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NOAA Data Report ERL MESA-27



MESA NEW YORK BIGHT PROJECT,
EXPANDED WATER COLUMN CHARACTERIZATION CRUISE (XWCC 8)
NOAA SHIP GEORGE B. KELEZ, APRIL 1976

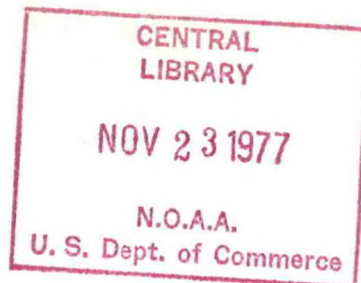
John B. Hazelworth
Shailer R. Cummings
Robert B. Starr
George A. Berberian

Marine Ecosystems Analysis Program Office
Boulder, Colorado
November 1977

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NATIONAL OCEANIC AND
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Environmental
Research Laboratories



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Atlantic Oceanographic and Meteorological Laboratories
Miami, Florida

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UNITED STATES
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NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION
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During the period 12-16 April 1976, an oceanographic cruise was made by the NOAA Ship Kelez in the New York Bight. The objective of the cruise was to supply data to provide a base for analysis of the water movements in the highly impacted ecosystem. This report presents the corrected physical and chemical (nutrient) data from this cruise.

Key Words: MESA, New York Bight, Physical Oceanographic Data, Nutrient Data

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 April of 1976, a cruise of 47 stations was conducted by the Atlantic Oceanographic and Meteorological Laboratories (AOML), Miami, Florida, aboard the NOAA Ship Kelez. The instrumentation employed was the same as that described in previous reports (Hazelworth et al., 1974, 1975 a, 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 seventh 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), and Kolitz et al. (1976, 1977).

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. New York Bight Station Positions

Station	Latitude	Longitude	Station	Latitude	Longitude
1	40°30.2'	73°57.3'	38	39°39.0'	72°39.5'
3	40°31.5'	73°48.4'	39	39°32.0'	72°26.0'
5	40°33.3'	73°32.5'	64	40°12.0'	72°20.0'
7	40°26.9'	73°53.0'	65	40°21.0'	72°28.0'
9	40°28.3'	73°39.6'	66	40°30.0'	72°34.0'
13	40°23.3'	73°47.0'	67	40°38.0'	72°40.0'
15	40°25.2'	73°30.4'	68	40°19.0'	72°46.0'
17	40°18.5'	73°51.8'	69	40°25.0'	72°55.0'
19	40°20.2'	73°37.9'	70	40°32.0'	73° 7.0'
21	40°13.5'	73°56.1'	77	40°10.5'	73°34.0'
23	40°14.8'	73°45.6'	78	40° 5.0'	73°21.5'
25	40°16.9'	73°28.3'	79	40° .0'	73° 9.5'
26	40°29.0'	73°59.5'	80	39°54.5'	72°57.0'
27	40°18.0'	73°17.5'	81	39°44.5'	73°10.0'
28	40°13.5'	73° 7.0'	82	39°50.5'	73°20.5'
29	40° 7.0'	72°54.5'	83	39°56.5'	73°30.5'
30	40° 2.0'	72°41.5'	84	40° 2.0'	73°41.0'
31	39°54.0'	72°25.0'	85	40° 8.0'	73°51.5'
33	40°10.0'	73°41.5'	86	39°47.5'	73°57.0'
34	40° 5.5'	73°31.5'	87	39°44.0'	73°43.5'
35	39°59.0'	73°21.5'	88	39°40.0'	73°30.0'
36	39°55.0'	73° 6.5'	89	39°36.0'	73°16.5'
37	39°46.0'	72°57.0'	90	39°32.5'	73° 3.0'
			91	39°28.0'	72°50.0'

Table 2. Expanded Water Column Characterization Cruise by the NOAA Ship *Kelez*

Cruise	Date	AOML Personnel
XWCC-8	April 12-16, 1976	Robert B. Starr Chief Scientist George A. Berberian Shailer R. Cummings

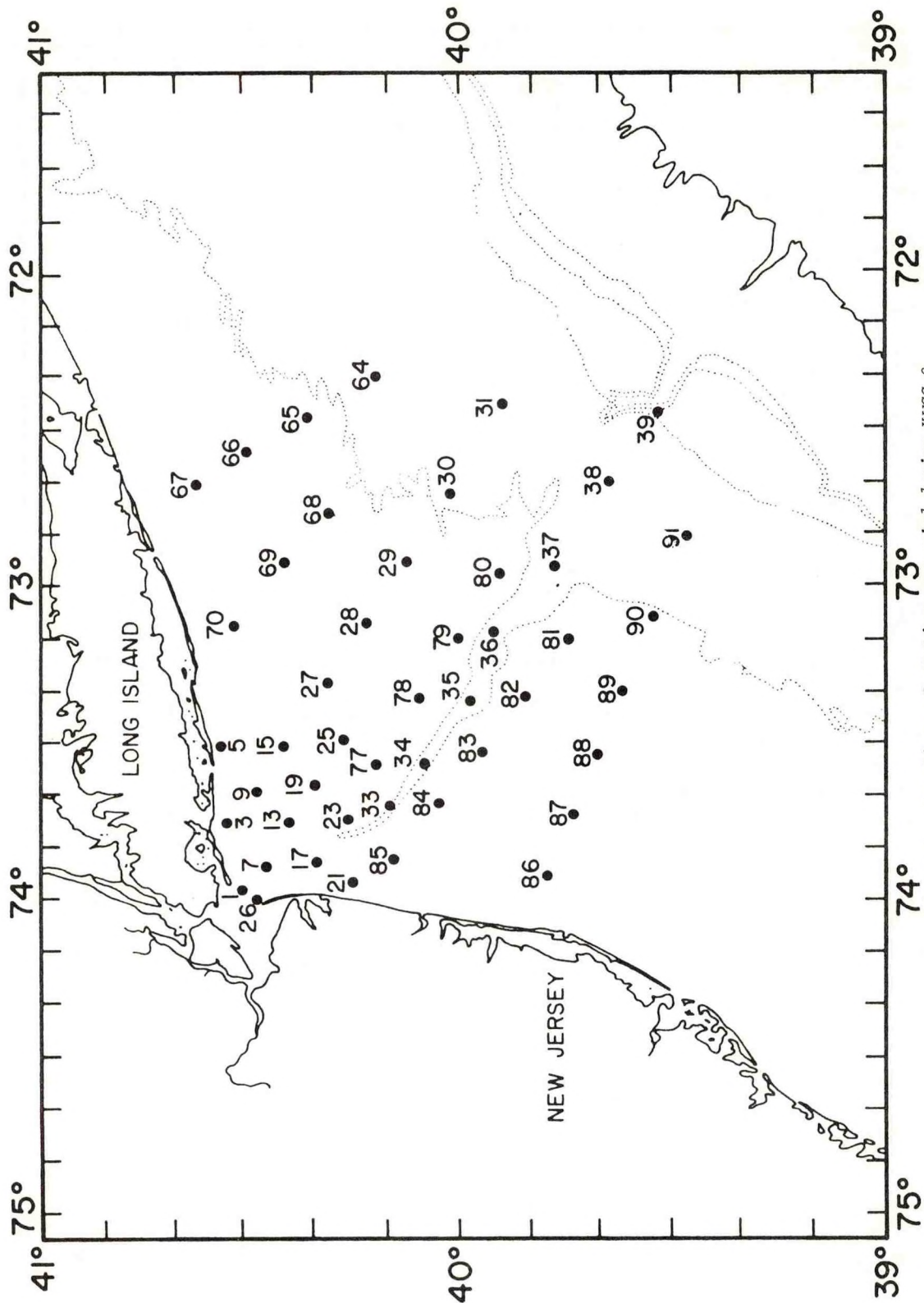


Figure 1. Locations of stations occupied during XWCC-8.

Table 3. Correction Factors and Data Accuracy for Cruise XWCC-8

	Temp. °C	Salinity o/oo	Transmissivity	Ph
Correction Factor	+.02	-0.09	N.A.	+.07
Mean Data Accuracy	+.01	-.005		+.01
Standard Deviation	.02	.03		.05

2. DATA PRESENTATION

Tables of the interpolated data and the corresponding depth profiles of temperature, salinity, sigma-t, and transmissivity 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 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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(Microfiche). In press.

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

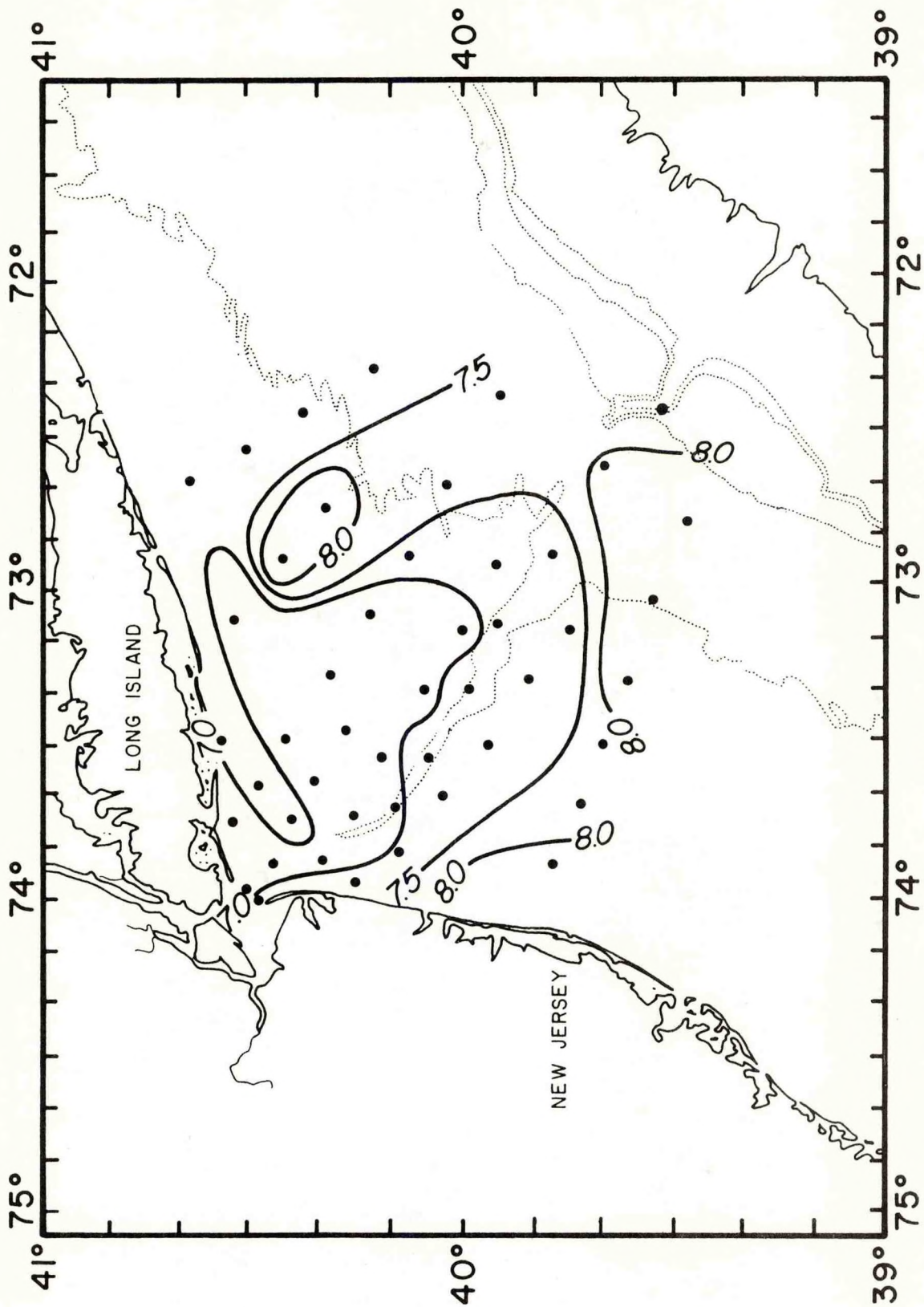


Figure 2. Surface water temperature 4/12/76 - 4/16/76.

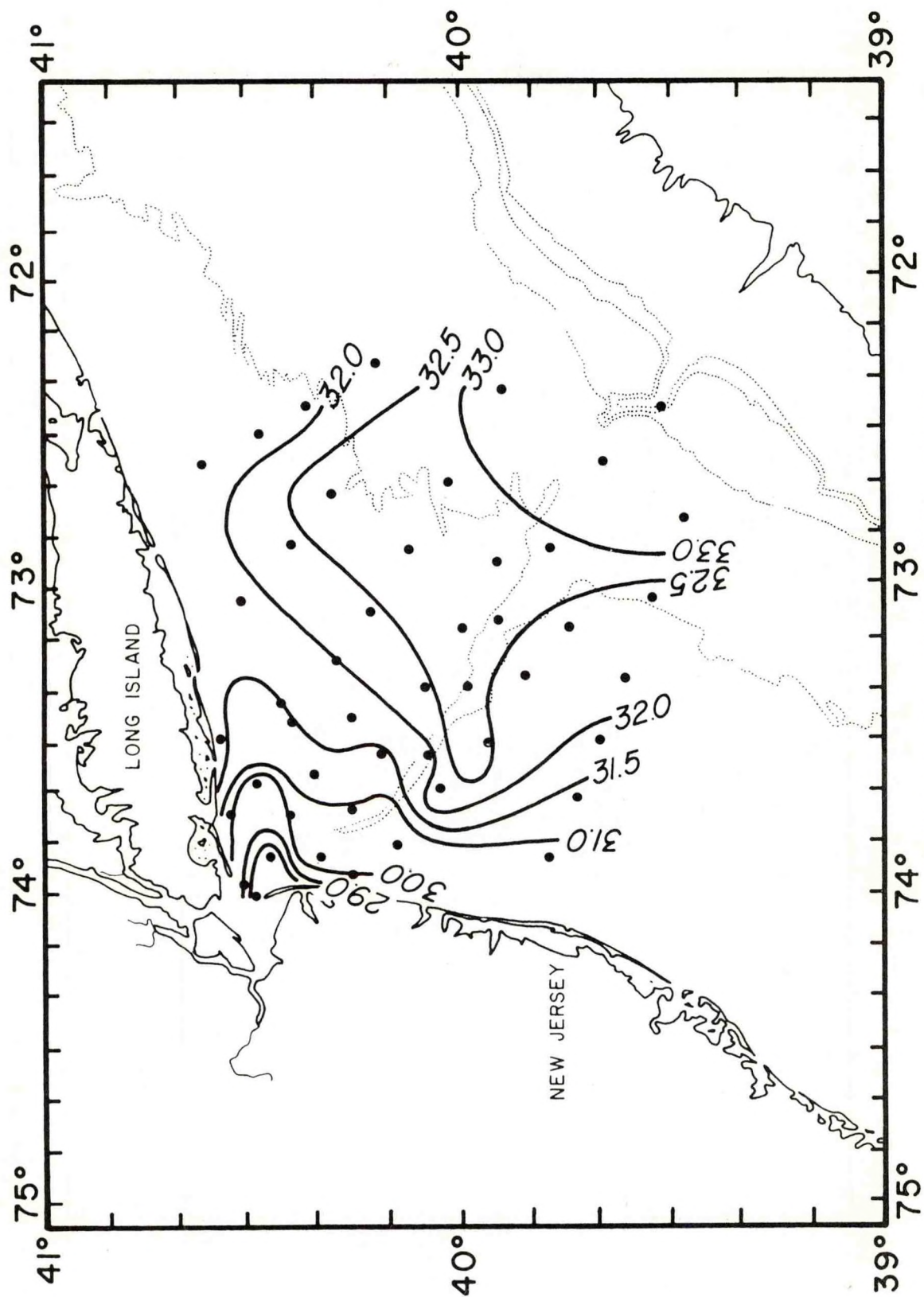


Figure 3. Surface salinities 4/12/76 - 4/16/76.

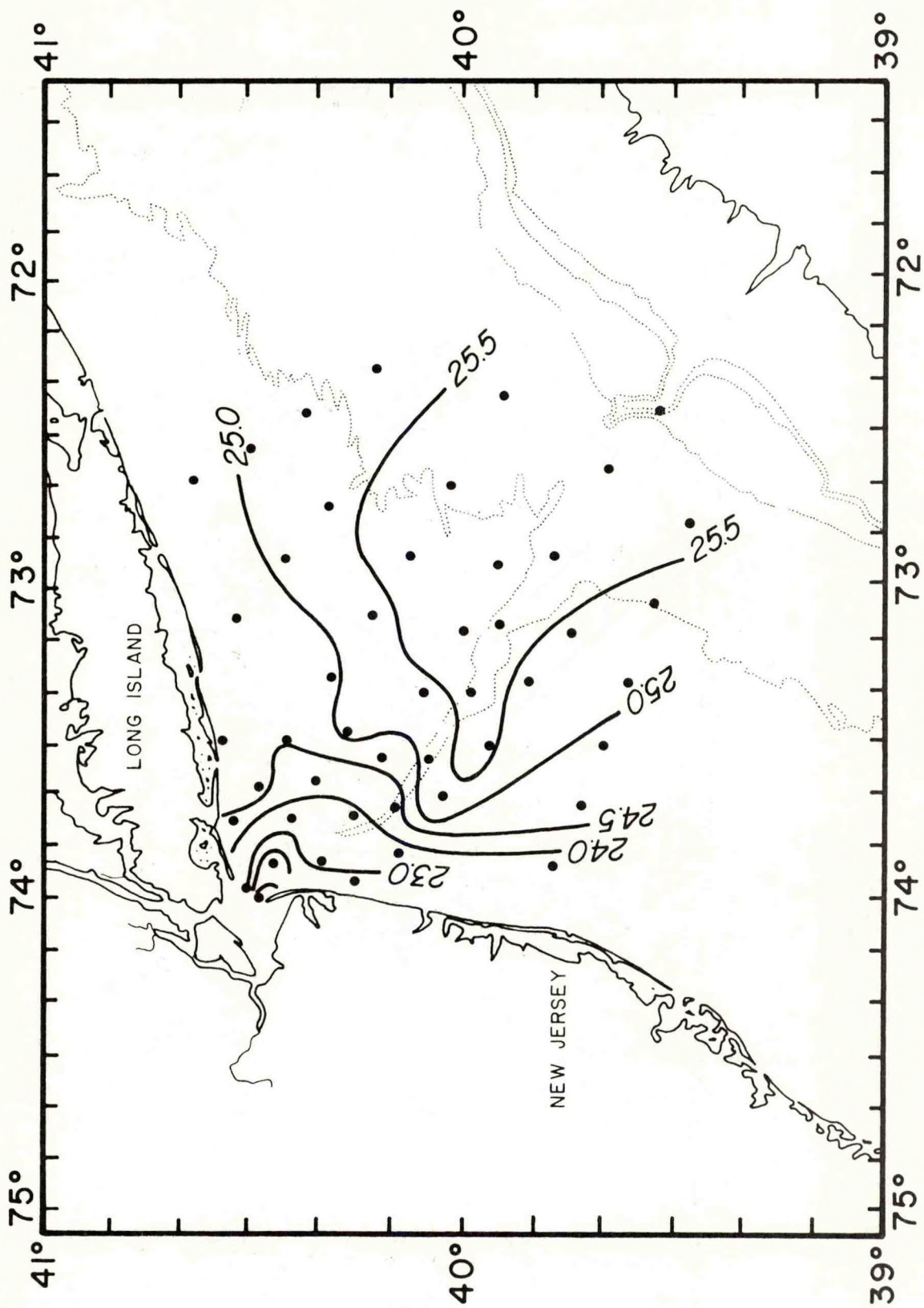


Figure 4. Surface sigma-t 4/12/76 - 4/16/76.

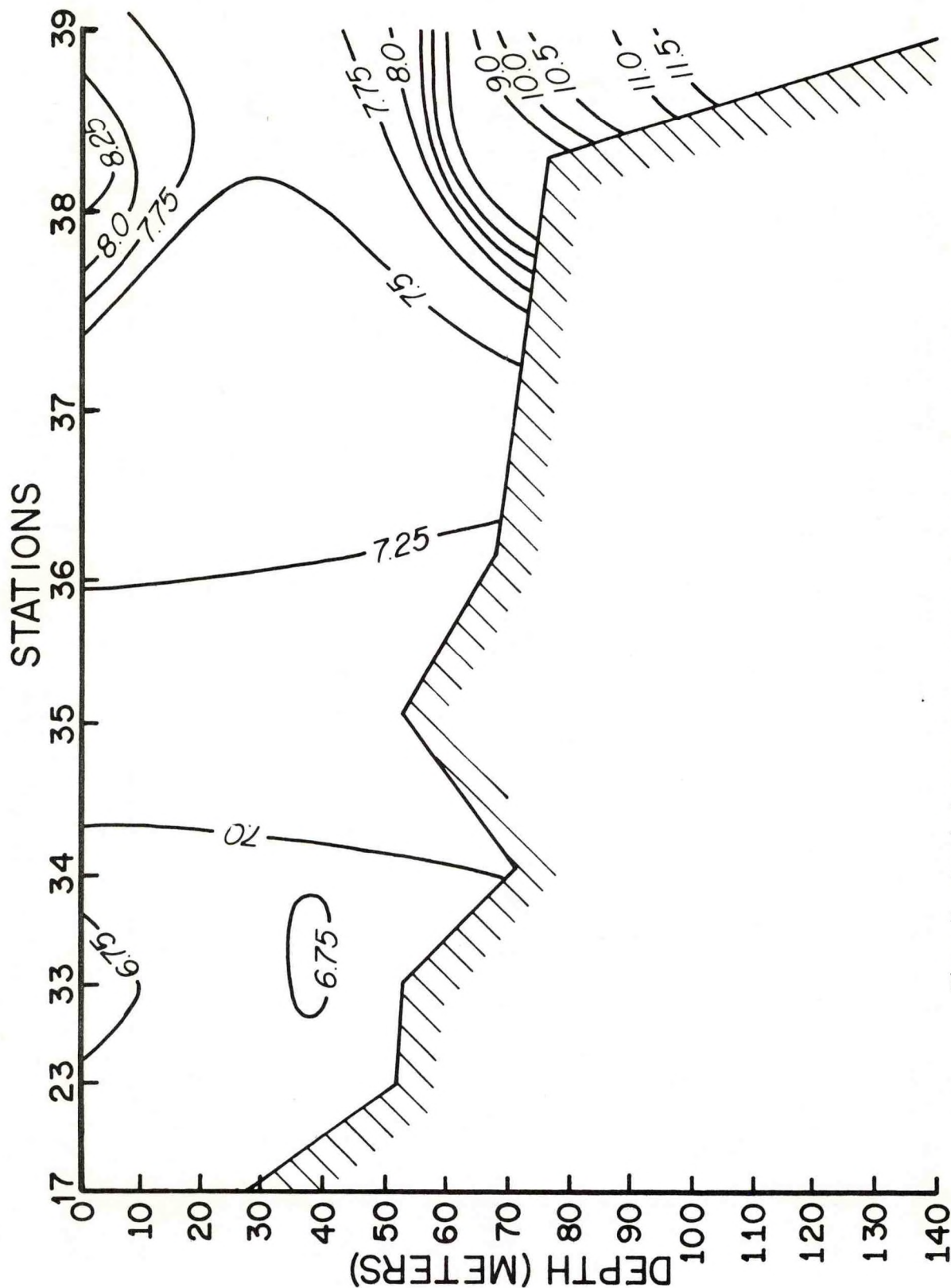


Figure 5. Vertical temperature contours along the Hudson Shelf Valley, 4/12/76 - 4/16/76. Reference Figure 1 for track line.

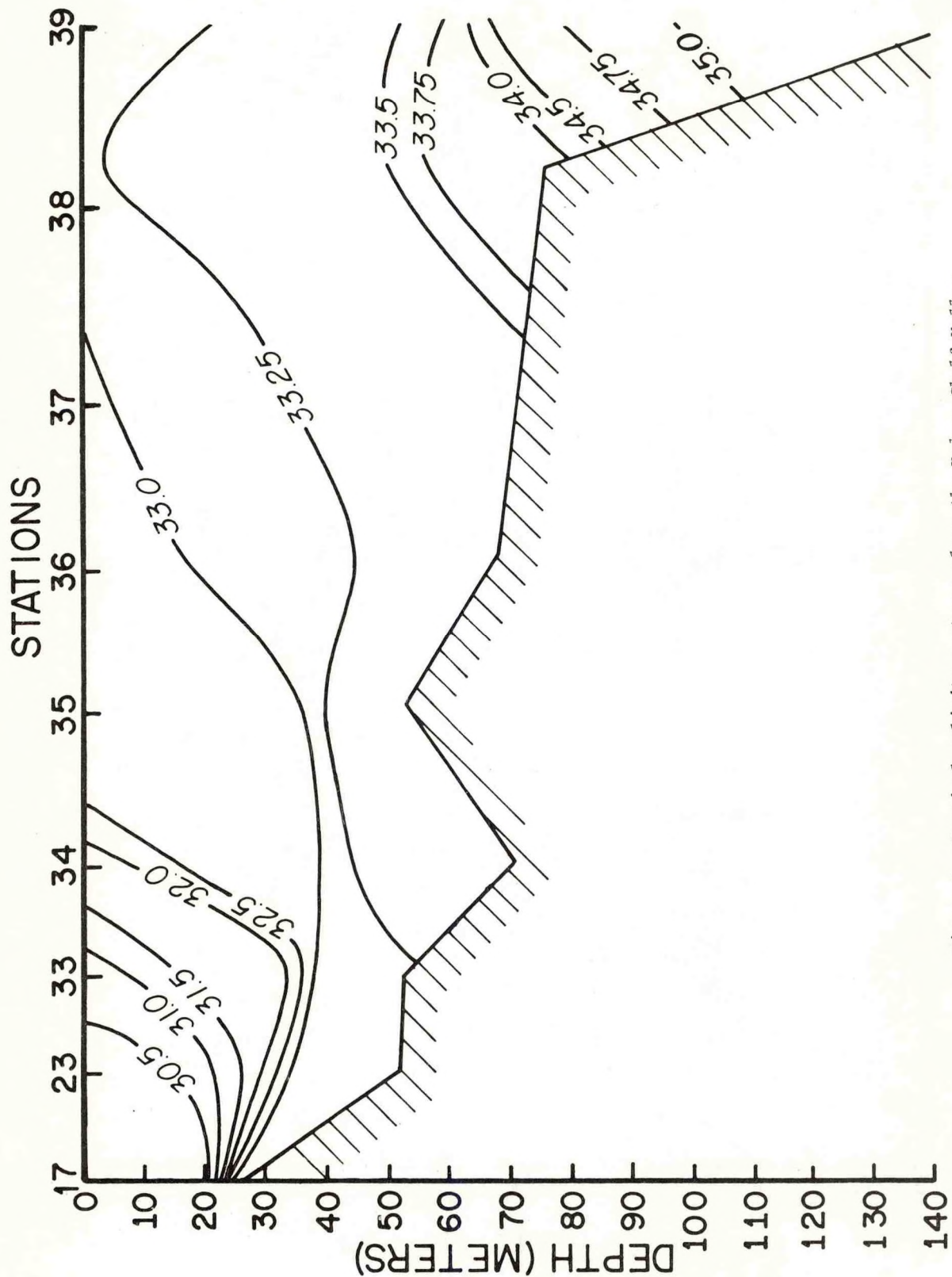


Figure 6. Vertical salinity contours along the Hudson Shelf Valley, 4/12/76 - 4/16/76. Reference Figure 1 for track line.

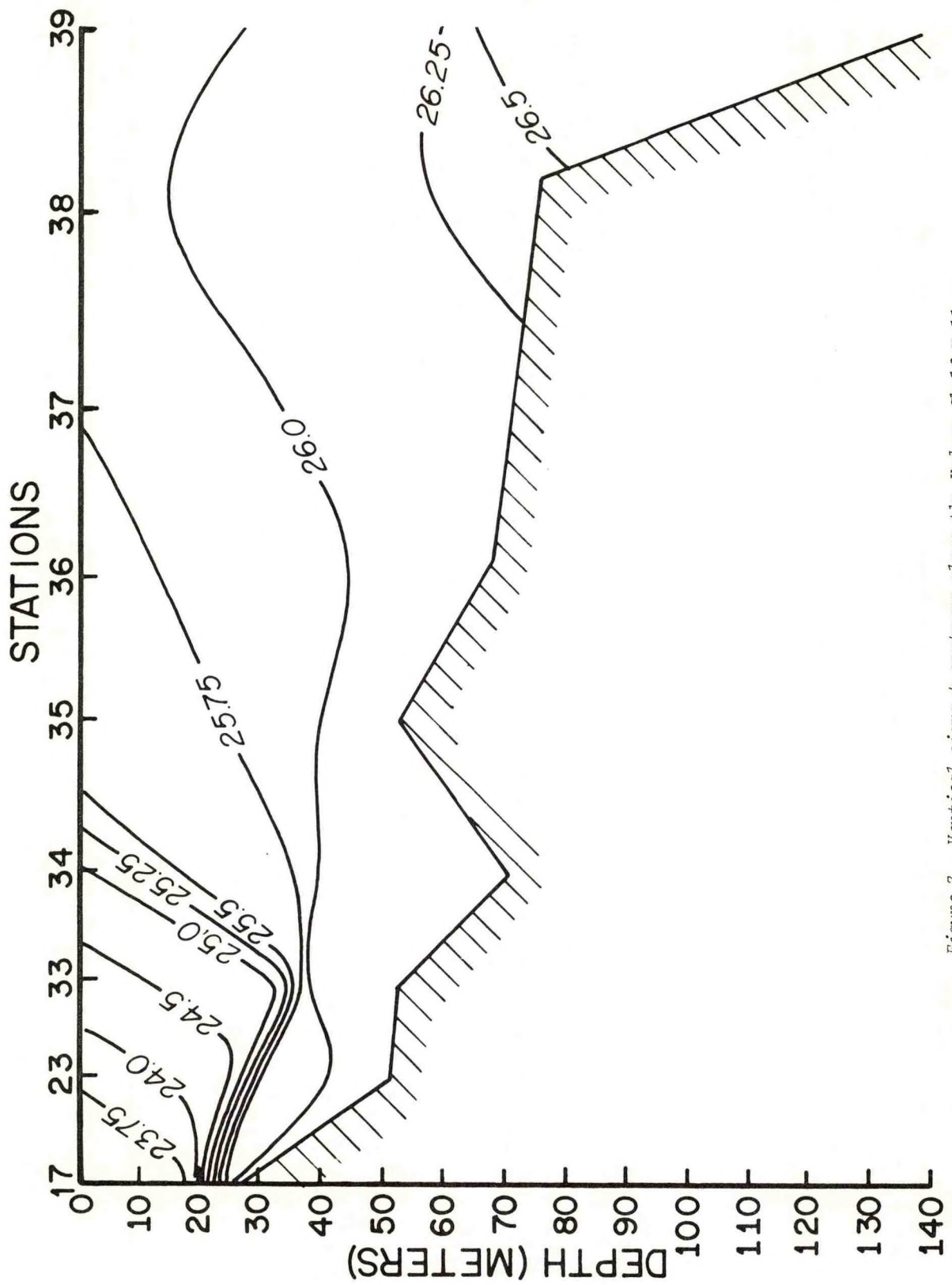


Figure 7. Vertical sigma-t contours along the Hudson Shelf Valley, 4/12/76 - 4/16/76. Reference Figure 1 for track line.

6. STATION DATA

XWCC-08 STA. 1 LAT 40 30.3N; LONG 73 56.4W GMT 14.5 04/12/76
 DEPTH 8 AIR D/W 39.0/31.0 BARO 24.0 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 13/22 SEA DIR/HT 13/0 SWELL DIR/HT 13/1

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	6.58	29.86	23.46	64.60	8.1	6.73	.27	3.04	.00	.00
2	6.58	29.86	23.46	65.00	8.1					
3	6.59	29.86	23.45	64.20	8.1					
4	6.58	29.83	23.42	64.30	8.1					
5	6.58	29.85	23.46	64.10	8.1	6.68	.30	2.50	.20	.92
6	6.58	29.85	23.45	64.20	8.1					

KELEZ CRUISE XWCC-8 STATION 1 APR. 12, 1976

TRANSMISSIVITY (0/0)

X 50 55 60 65 70 75 80 85 90 95

SIGMA-T

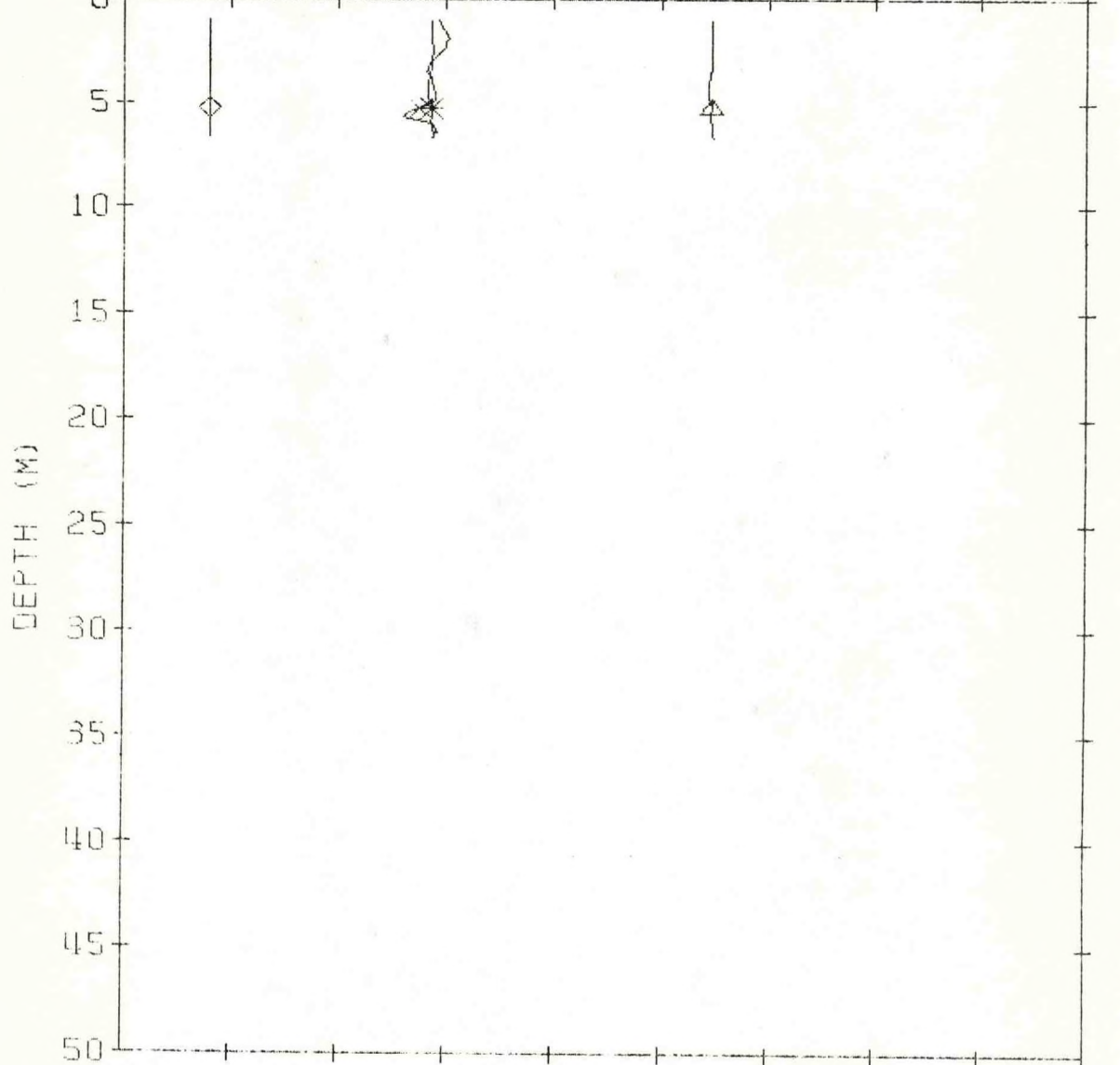
Δ 18 19 20 21 22 23 24 25 26 27

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-08 STA. 03 LAT 40 31.6N; LONG 73 48.2W GMT 18.3 04/12/76
 DEPTH 15 AIR D/W 06.1/ . BARO 21.5 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 30/22 SEA DIR/HT 30/0 SWELL DIR/HT 27/1

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	6.84	30.94	24.27	78.40	8.3	7.03	.12	.22	.12	.37
2	6.84	30.94	24.27	77.70	8.3					
3	6.84	30.95	24.28	76.60	8.3					
4	6.82	30.93	24.26	76.20	8.3					
5	6.83	30.93	24.27	76.60	8.3					
6	6.83	30.96	24.29	76.40	8.3					
7	6.82	30.96	24.29	76.50	8.3					
8	6.84	30.95	24.28	76.50	8.3					
9	6.77	30.97	24.30	76.80	8.3					
10	6.74	30.99	24.33	76.50	8.3	7.03	.13	.09	.00	.28
11	6.67	31.14	24.47	76.60	8.3					
12	6.64	32.08	25.23	74.60	8.2					
13	6.64	32.15	25.25	74.50	8.1					
14	6.64	32.15	25.25	74.50	8.1	5.95	.12	.24	.51	.60

KELEZ CRUISE XWCC-8 STATION 3 APR. 12, 1976

TRANSMISSIVITY (0/0)

X 50 55 60 65 70 75 80 85 90 95

SIGMA-T

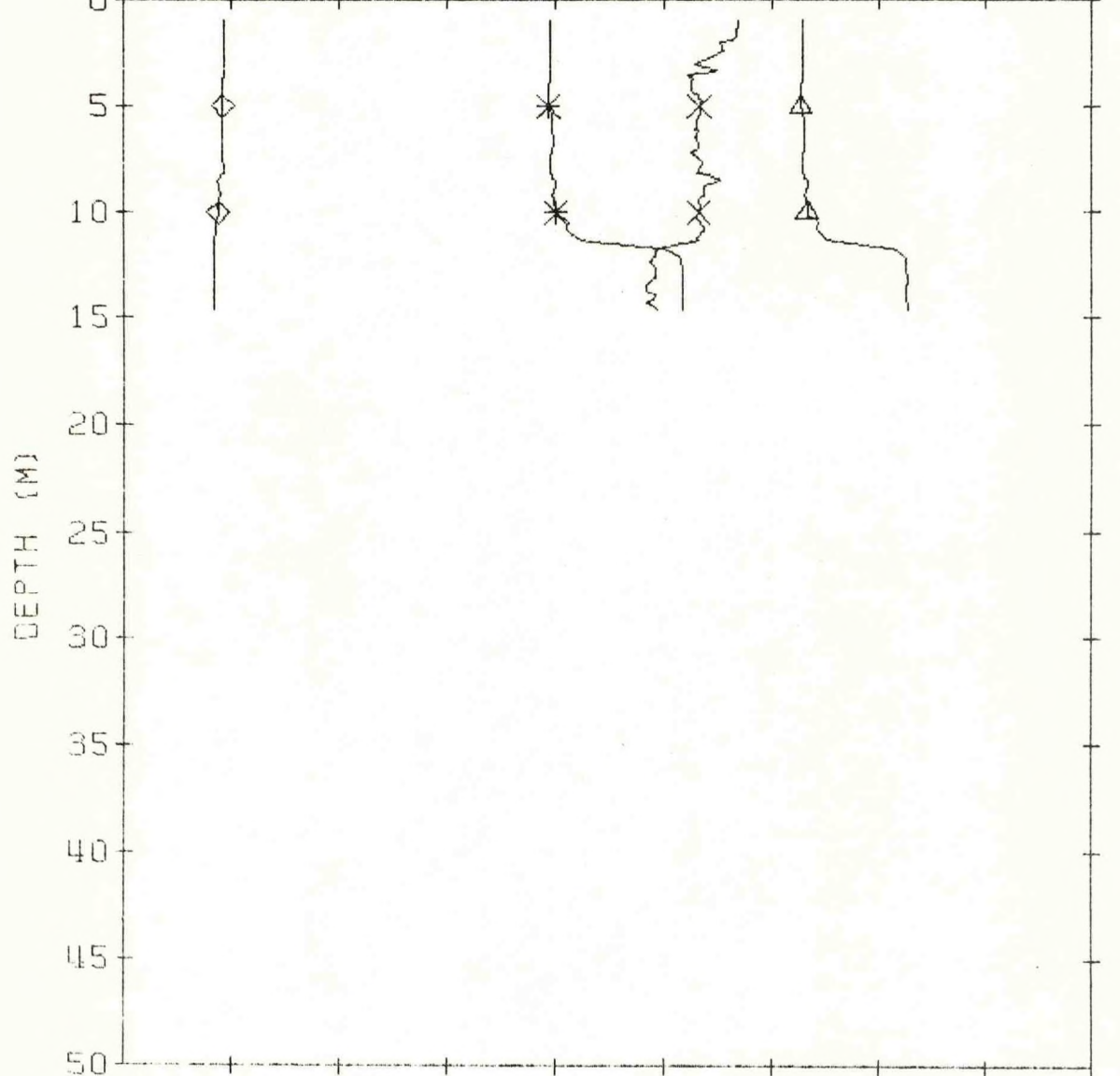
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SALINITY (0/00)

* 27 28 29 30 31 32 33 34 35 36

TEMPERATURE (C)

◇ 5 7 9 11 13 15 17 19 21 23



XWCC-08 STA. 05 LAT 40 33.1N; LONG 73 32.1W GMT 19.8 04/12/76
 DEPTH 15 AIR D/W 11.7/ . BARO 20.0 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 33/15 SEA DIR/HT 33/0 SWELL DIR/HT 27/1

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	7.02	31.62	24.78	74.40	8.1	7.01	.17	.00	.00	.32
2	7.01	31.63	24.79	74.30	8.1					
3	7.00	31.63	24.79	74.50	8.1					
4	7.00	31.62	24.78	74.30	8.1					
5	7.00	31.63	24.80	74.30	8.1					
6	6.98	31.64	24.79	74.80	8.1					
7	6.98	31.65	24.80	74.50	8.1					
8	6.98	31.66	24.82	74.40	8.1					
9	6.98	31.66	24.82	72.70	8.1					
10	6.98	31.66	24.82	72.40	8.1	6.86	.07	1.09	.00	.29
11	6.98	31.64	24.80	74.40	8.1					
12	6.99	31.64	24.78	74.20	8.1					
13	6.99	31.63	24.80	74.20	8.1					
14	6.98	31.64	24.80	73.20	8.1	7.02	.09	.00	.00	.33

KELEZ CRUISE XWCC-8 STATION 5 APR. 12, 1976

TRANSMISSIVITY (0/0)

X 50 55 60 65 70 75 80 85 90 95

SIGMA-T

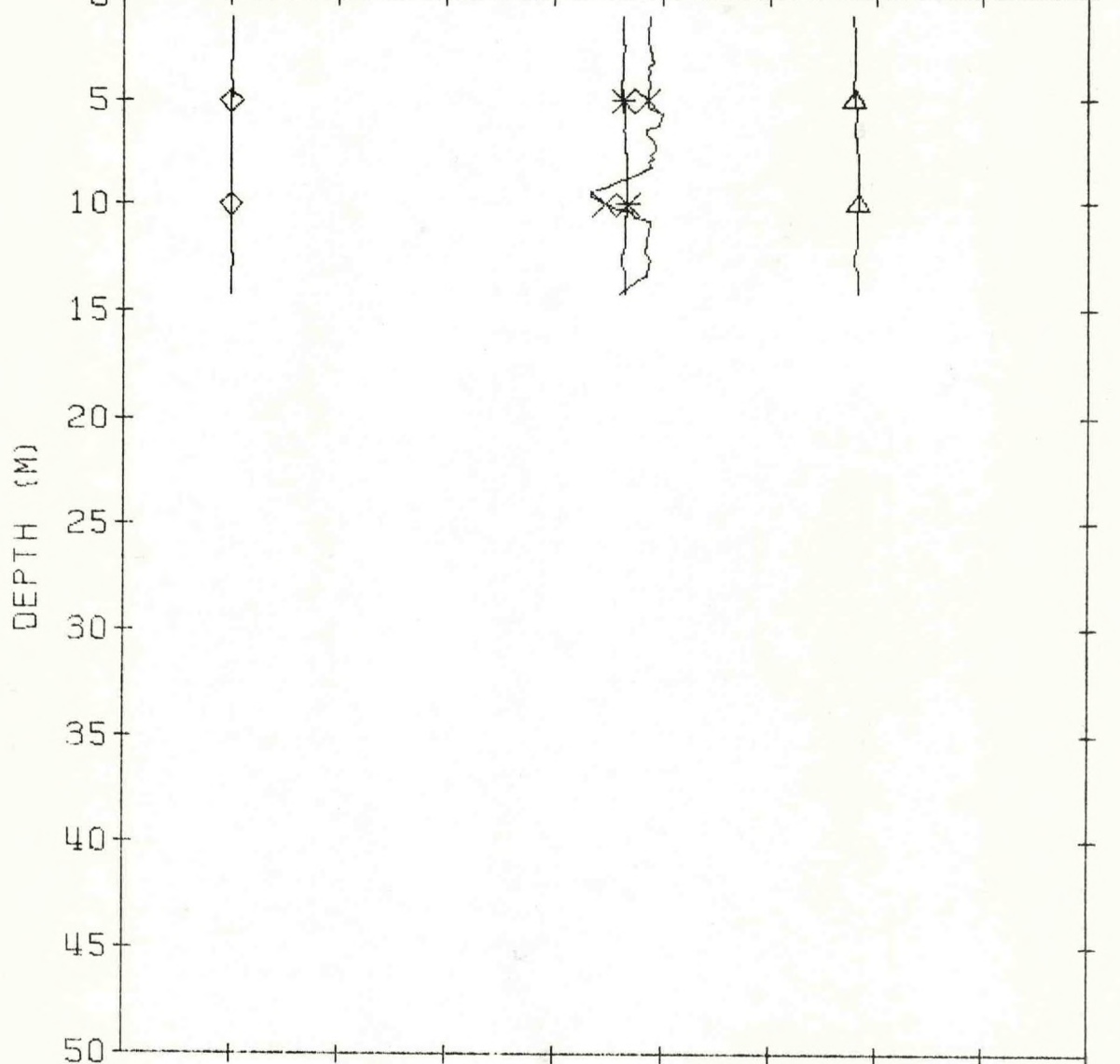
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SALINITY (0/00)

* 27 28 29 30 31 32 33 34 35 36

TEMPERATURE (C)

◇ 5 7 9 11 13 15 17 19 21 23



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 DEPTH 18 AIR D/W 35.0/29.0 BARO 23.5 VIS 7 CLD TYP/CVR /9
 WETHR 0 WIND DIR/SPD 14/30 SEA DIR/HT 15/0 SWELL DIR/HT 15/2

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	6.91	27.54	21.59	68.40	8.3	7.13	.57	1.67	1.27	.74
2	6.91	27.53	21.59	68.40	8.3					
3	6.91	27.53	21.58	66.50	8.3					
4	6.91	27.65	21.80	67.00	8.3					
5	6.87	27.90	21.90	68.50	8.3					
6	6.87	27.99	21.98	68.30	8.3					
7	6.87	28.01	21.98	68.10	8.3					
8	6.87	28.15	22.14	69.90	8.3					
9	6.86	28.39	22.26	70.20	8.3					
10	6.86	28.36	22.22	69.70	8.3					
11	6.86	28.36	22.29	70.30	8.3					
12	6.87	28.51	22.36	70.70	8.3					
13	6.89	28.70	22.79	70.50	8.3					
14	6.87	29.28	23.06	70.20	8.3	6.19	.20	.71	.67	.75

KELEZ CRUISE XWCC-8 STATION 7 APR. 12, 1976

TRANSMISSIVITY (0/0)

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SIGMA-T

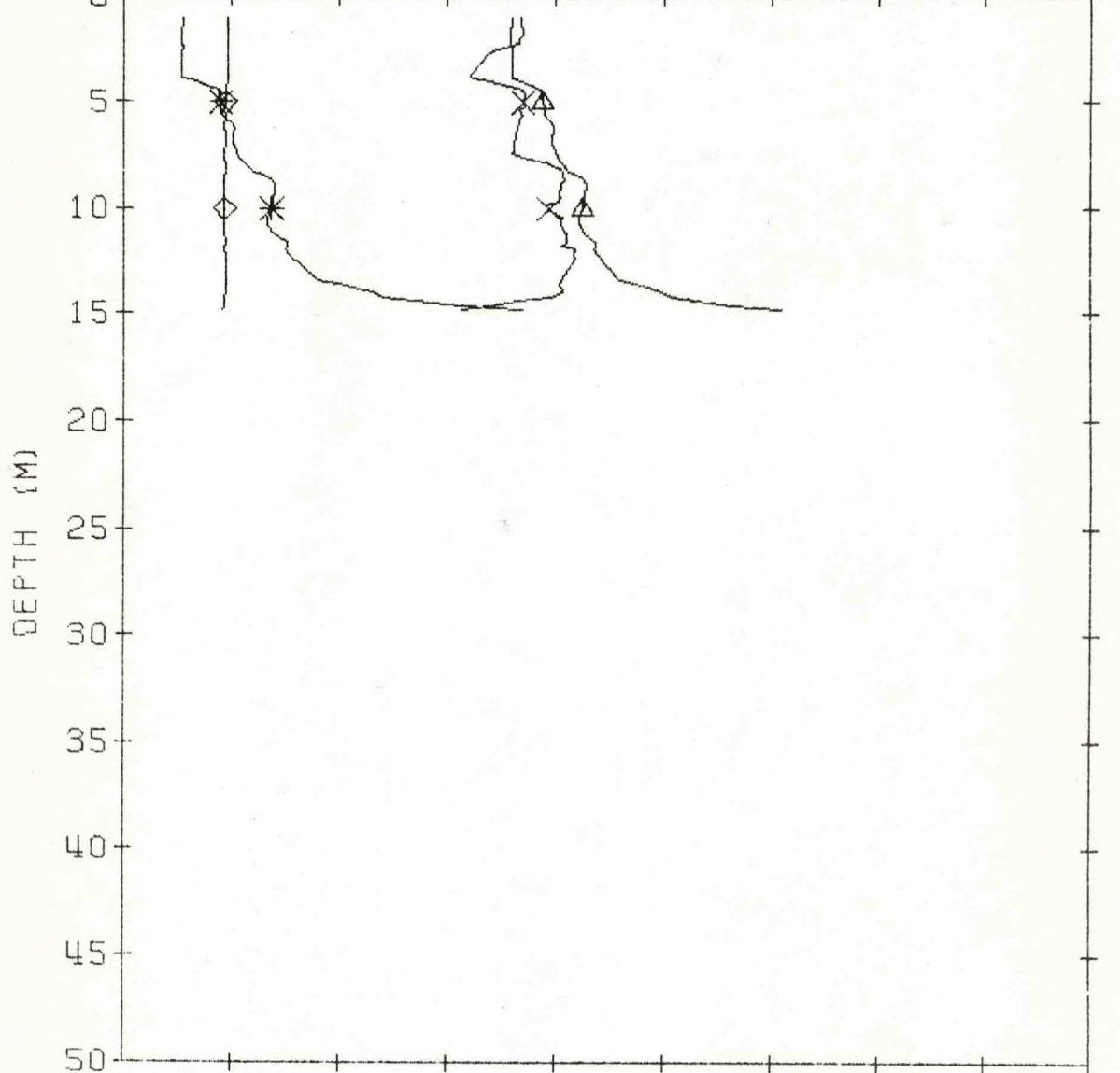
Δ 18 19 20 21 22 23 24 25 26 27

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-08 STA. 09 LAT 40 28.1N; LONG 73 39.6W GMT 20.4 04/12/76
 DEPTH 23 AIR D/W 08.9/02.8 BARO 20.0 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 30/30 SEA DIR/HT 30/1 SWELL DIR/HT 30/2

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	6.80	31.39	24.63	78.60	8.3	6.94	.19	1.05	.20	.32
2	6.80	31.39	24.63	78.60	8.3					
3	6.80	31.39	24.63	78.20	8.3					
4	6.79	31.39	24.62	78.60	8.3					
5	6.80	31.37	24.61	78.70	8.3					
6	6.80	31.37	24.60	79.00	8.3					
7	6.81	31.36	24.60	79.40	8.3					
8	6.80	31.36	24.61	79.40	8.3					
9	6.79	31.37	24.61	79.20	8.3					
10	6.81	31.38	24.62	79.30	8.3					
11	6.81	31.39	24.63	79.00	8.3					
12	6.79	31.40	24.63	78.60	8.3					
13	6.79	31.38	24.61	79.70	8.3					
14	6.78	31.39	24.63	78.80	8.3					
15	6.78	31.39	24.64	79.70	8.3					
16	6.76	31.39	24.64	79.10	8.3					
17	6.74	31.44	24.68	79.30	8.3					
18	6.71	31.52	24.77	79.30	8.2					
19	6.73	31.57	24.78	78.00	8.2					
20	6.70	31.60	24.83	78.20	8.1	6.41	.21	1.03	.04	.24

KELEZ CRUISE XWCC-8 STATION 9 APR. 12, 1976

TRANSMISSIVITY (0/0)

× 50 55 60 65 70 75 80 85 90 95

SIGMA-T

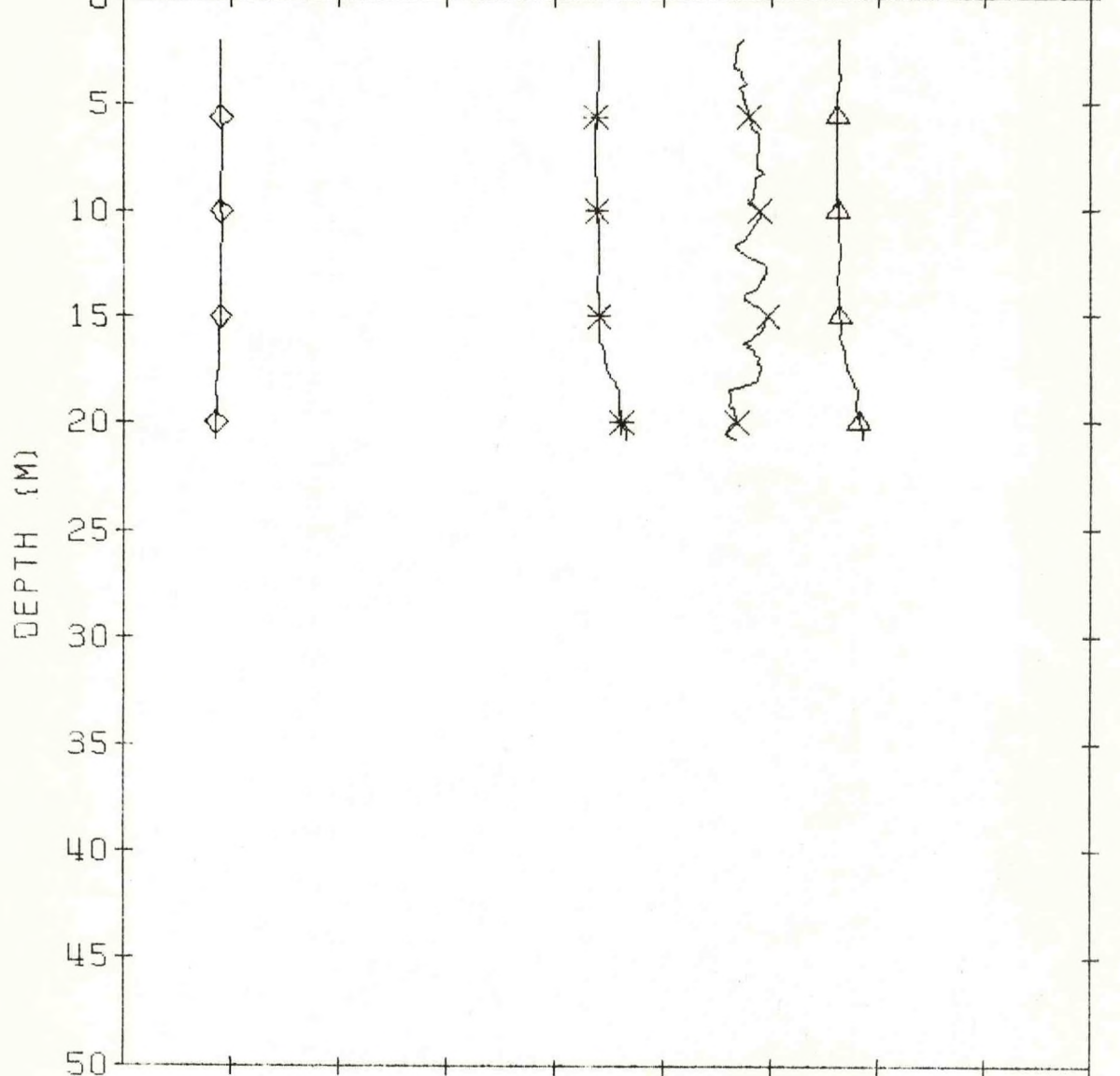
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SALINITY (0/00)

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TEMPERATURE (C)

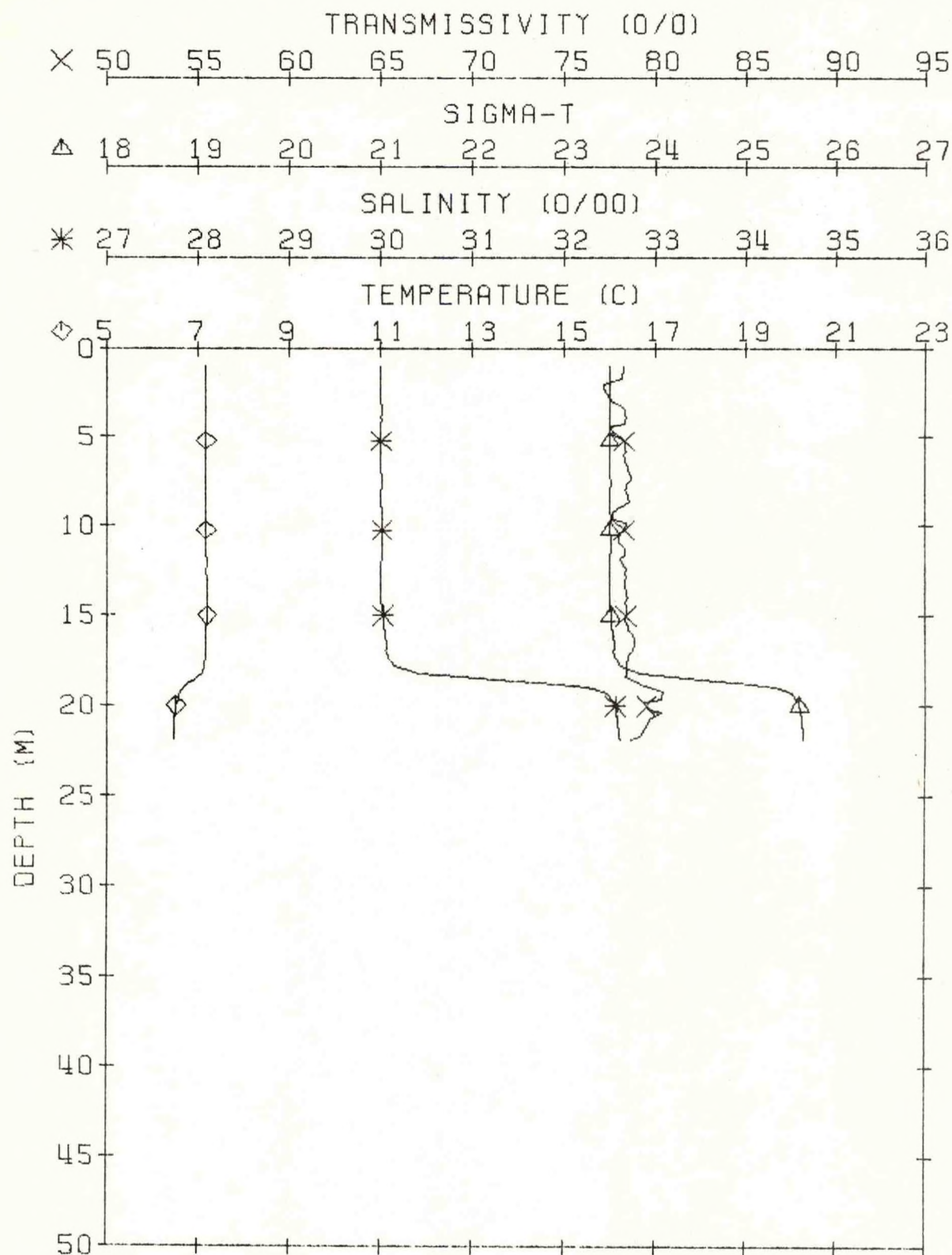
◇ 5 7 9 11 13 15 17 19 21 23



XWCC-08 STA. 13 LAT 40 23.2N; LONG 73 46.9W GMT 22.9 04/12/76
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 WETHR 0 WIND DIR/SPD 30/25 SEA DIR/HT 30/0 SWELL DIR/HT 30/2

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	7.16	29.99	23.49	78.20	8.3	7.70	.24	.99	.00	.14
2	7.16	29.99	23.49	77.30	8.3					
3	7.16	30.00	23.50	77.80	8.3					
4	7.16	30.00	23.49	78.30	8.3					
5	7.16	30.00	23.49	77.90	8.3					
6	7.16	29.99	23.49	78.30	8.3					
7	7.16	30.00	23.50	78.50	8.3					
8	7.16	30.00	23.49	78.30	8.3					
9	7.16	30.00	23.50	78.00	8.3					
10	7.16	30.01	23.49	78.30	8.3	7.71	.19	.00	.00	.04
11	7.16	30.01	23.50	78.10	8.3					
12	7.18	30.00	23.49	78.10	8.3					
13	7.18	30.00	23.49	78.30	8.3					
14	7.18	30.00	23.49	78.40	8.3					
15	7.18	30.02	23.50	78.30	8.3					
16	7.16	30.04	23.53	78.60	8.3					
17	7.15	30.06	23.53	78.70	8.3					
18	7.11	30.28	23.92	78.40	8.3					
19	6.67	32.20	25.46	79.70	8.1					
20	6.50	32.55	25.59	79.50	8.1	5.85	.20	.07	1.16	.42
21	6.46	32.58	25.63	79.50	8.1					

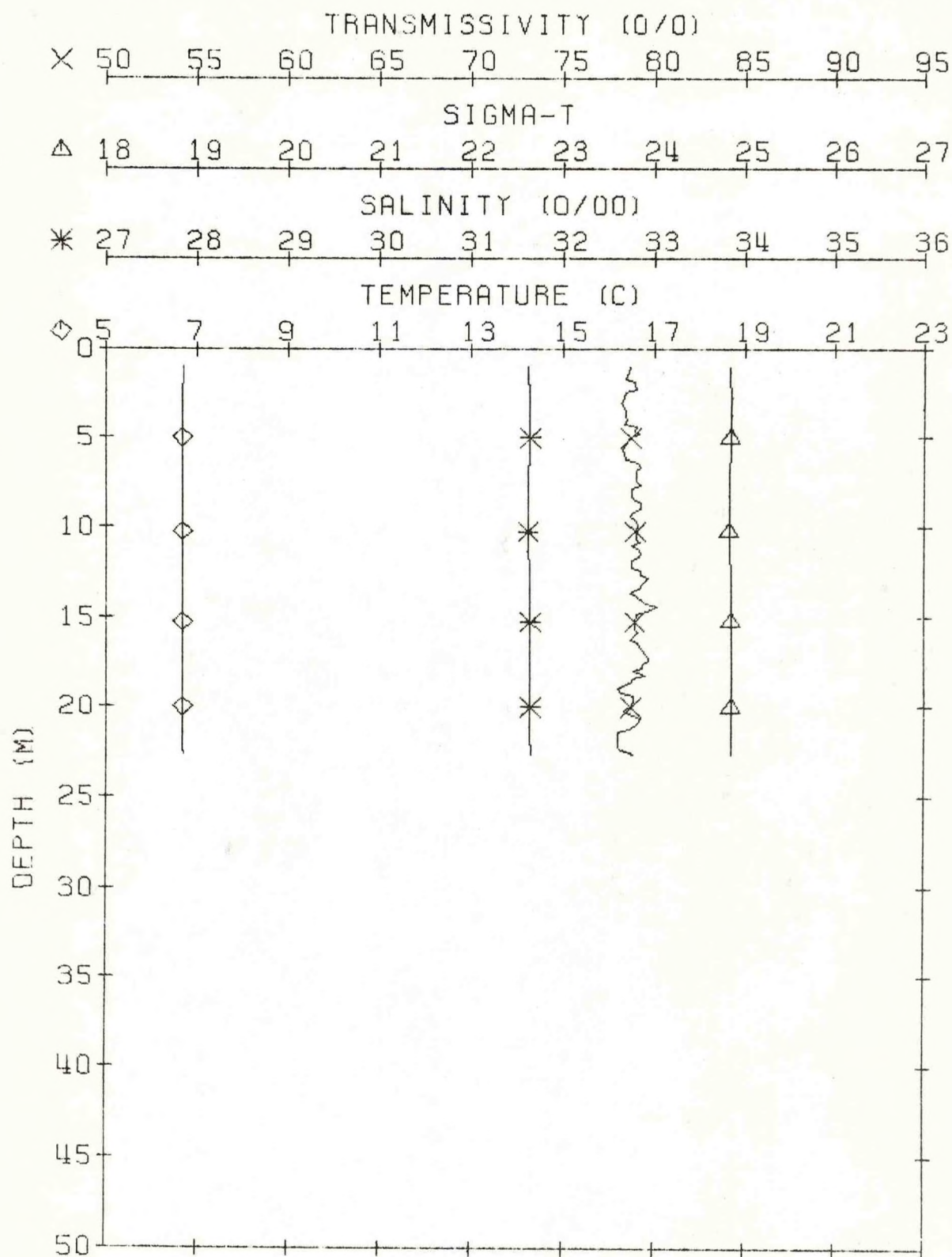
KELEZ CRUISE XWCC-8 STATION 13 APR. 12, 1976



XWCC-08 STA. 15 LAT 40 24.9N; LONG 73 30.6W GMT 10.3 04/13/76
 DEPTH 24 AIR D/W 05.8/02.8 BARO 21.0 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 30/20 SEA DIR/HT 30/0 SWELL DIR/HT 30/1

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	6.68	31.61	24.82	78.60	8.3	7.03	.20	.00	.24	.26
2	6.67	31.62	24.83	78.90	8.3					
3	6.66	31.63	24.83	78.20	8.3					
4	6.66	31.63	24.83	78.40	8.3					
5	6.66	31.63	24.83	78.70	8.3					
6	6.66	31.63	24.83	78.40	8.3					
7	6.66	31.61	24.82	78.90	8.3					
8	6.66	31.61	24.82	78.70	8.3					
9	6.66	31.61	24.82	79.10	8.3					
10	6.66	31.61	24.82	79.00	8.3	7.03	.17	.00	.24	.24
11	6.66	31.61	24.82	78.90	8.3					
12	6.66	31.63	24.83	78.70	8.3					
13	6.66	31.63	24.83	79.40	8.3					
14	6.66	31.63	24.83	79.20	8.3					
15	6.66	31.63	24.83	78.90	8.3					
16	6.66	31.63	24.83	78.80	8.3					
17	6.66	31.63	24.83	79.40	8.3					
18	6.66	31.63	24.83	79.10	8.3					
19	6.66	31.63	24.83	78.20	8.3					
20	6.66	31.63	24.83	78.60	8.3					
21	6.66	31.63	24.83	78.90	8.3					
22	6.66	31.63	24.84	78.00	8.3	6.92	.27	.00	.32	.14

KELEZ CRUISE XWCC-8 STATION 15 APR. 13, 1976



XWCC-08 STA. 17 LAT 40 18.3N; LONG 73 50.8W GMT 00.2 04/13/76
 DEPTH 27 AIR D/W 06.7/01.7 BARO 21.0 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 31/24 SEA DIR/HT 31/0 SWELL DIR/HT 31/2

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	6.98	30.15	23.63	78.60	8.3	7.49	.18	.00	.12	.19
2	6.97	30.15	23.64	78.30	8.3					
3	6.97	30.16	23.64	78.50	8.3					
4	6.96	30.17	23.65	78.40	8.3					
5	6.96	30.17	23.65	78.70	8.3					
6	6.96	30.16	23.64	78.70	8.3					
7	6.96	30.16	23.64	78.60	8.3					
8	6.96	30.16	23.64	78.20	8.3					
9	6.96	30.16	23.64	78.20	8.3					
10	6.95	30.14	23.64	78.40	8.3	7.61	.19	.00	.00	.06
11	6.96	30.14	23.64	78.40	8.3					
12	6.98	30.12	23.60	78.30	8.3					
13	6.99	30.12	23.61	78.50	8.3					
14	6.97	30.14	23.63	78.20	8.3					
15	6.98	30.15	23.64	78.10	8.3					
16	6.98	30.17	23.65	78.20	8.3					
17	6.98	30.17	23.65	78.10	8.3					
18	6.98	30.18	23.66	78.20	8.3					
19	6.98	30.19	23.66	78.20	8.3					
20	7.00	30.20	23.71	78.50	8.3	6.76	.17	.00	.16	.15
21	6.93	30.68	24.25	79.30	8.3					
22	6.80	31.33	24.73	80.20	8.3					
23	6.69	32.01	25.38	80.50	8.1					
24	6.75	33.14	26.04	78.80	8.1					
25	6.77	33.19	26.06	78.40	8.1	5.66	.27	.43	1.04	.41
26	6.77	33.20	26.05	77.90	8.1					

KELEZ CRUISE XWCC-8 STATION 17 APR. 13, 1976

TRANSMISSIVITY (0/0)

X 50 55 60 65 70 75 80 85 90 95

SIGMA-T

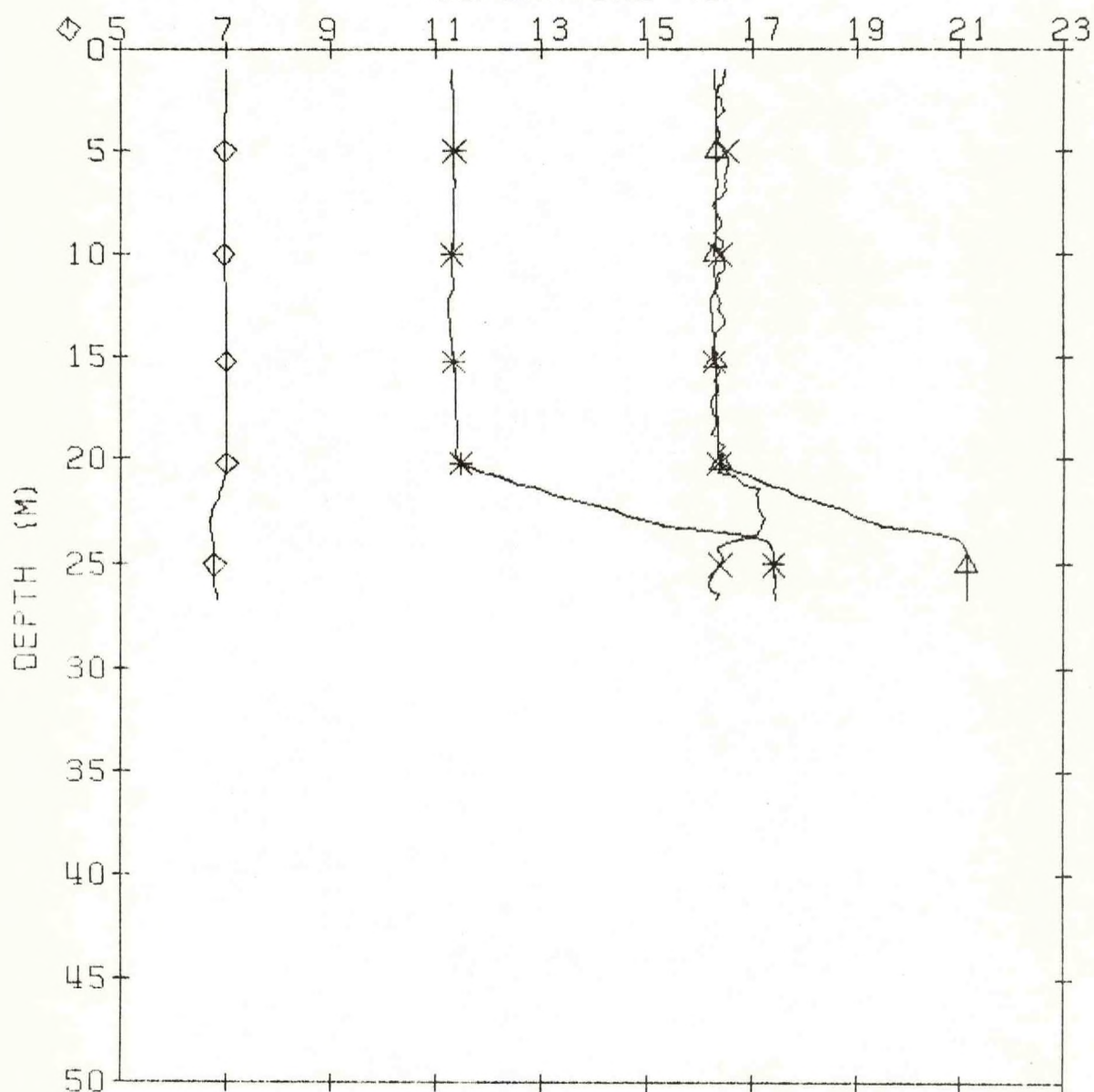
△ 18 19 20 21 22 23 24 25 26 27

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-08 STA. 19 LAT 40 20.1N; LONG 73 37.8W GMT 08.7 04/13/76
 DEPTH 27 AIR D/W 05.6/02.2 BARO 21.5 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 30/18 SEA DIR/HT 00/0 SWELL DIR/HT 30/2

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	6.58	31.02	24.37	79.20	8.3	7.02	.32	.00	.28	.15
2	6.58	31.03	24.38	78.90	8.3					
3	6.58	31.04	24.39	79.30	8.3					
4	6.58	31.03	24.37	79.40	8.3					
5	6.58	31.04	24.39	79.60	8.3					
6	6.58	31.05	24.39	78.80	8.3					
7	6.58	31.05	24.39	78.90	8.3					
8	6.58	31.05	24.39	79.30	8.3					
9	6.58	31.05	24.39	78.80	8.3					
10	6.61	31.07	24.40	78.80	8.3	7.18	.21	.00	.44	.20
11	6.62	31.07	24.40	79.10	8.3					
12	6.64	31.09	24.41	78.90	8.3					
13	6.67	31.09	24.41	78.50	8.3					
14	6.68	31.12	24.45	78.70	8.3					
15	6.68	31.15	24.46	78.70	8.3					
16	6.67	31.31	24.68	78.80	8.3					
17	6.57	31.59	24.87	79.10	8.1					
18	6.55	31.71	24.95	78.30	8.2					
19	6.56	31.78	24.96	78.30	8.2					
20	6.55	31.78	24.98	78.60	8.2					
21	6.54	31.80	24.99	78.40	8.2					
22	6.51	31.85	25.07	78.20	8.1					
23	6.38	32.04	25.21	78.20	8.1					
24	6.36	32.12	25.26	79.20	8.2					
25	6.36	32.13	25.27	78.90	8.1	6.00	.21	.00	.32	.44

KELEZ CRUISE XWCC-8 STATION 19 APR. 13, 1976

TRANSMISSIVITY (0/0)

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SIGMA-T

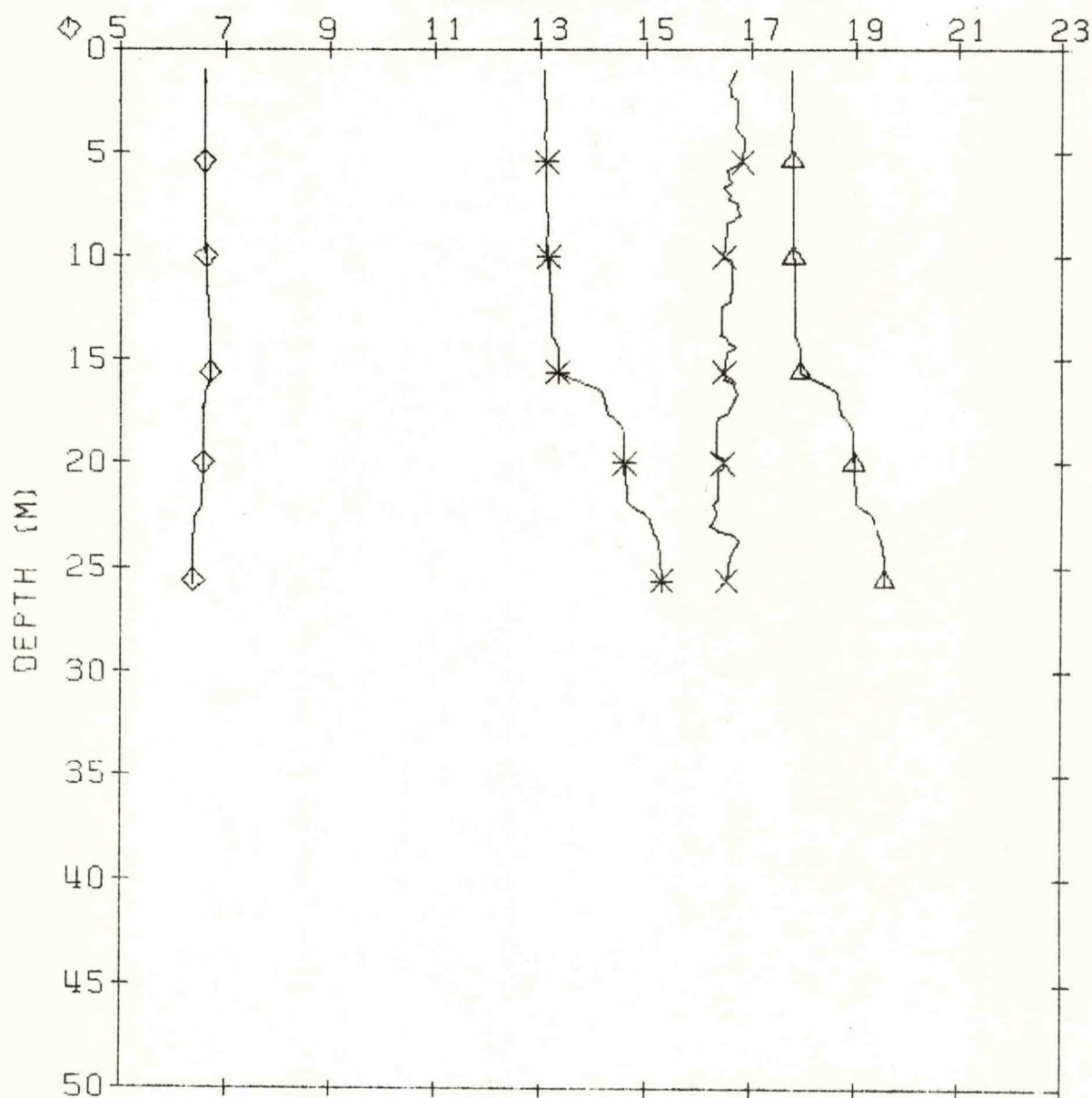
△ 18 19 20 21 22 23 24 25 26 27

SALINITY (0/00)

* 27 28 29 30 31 32 33 34 35 36

TEMPERATURE (C)

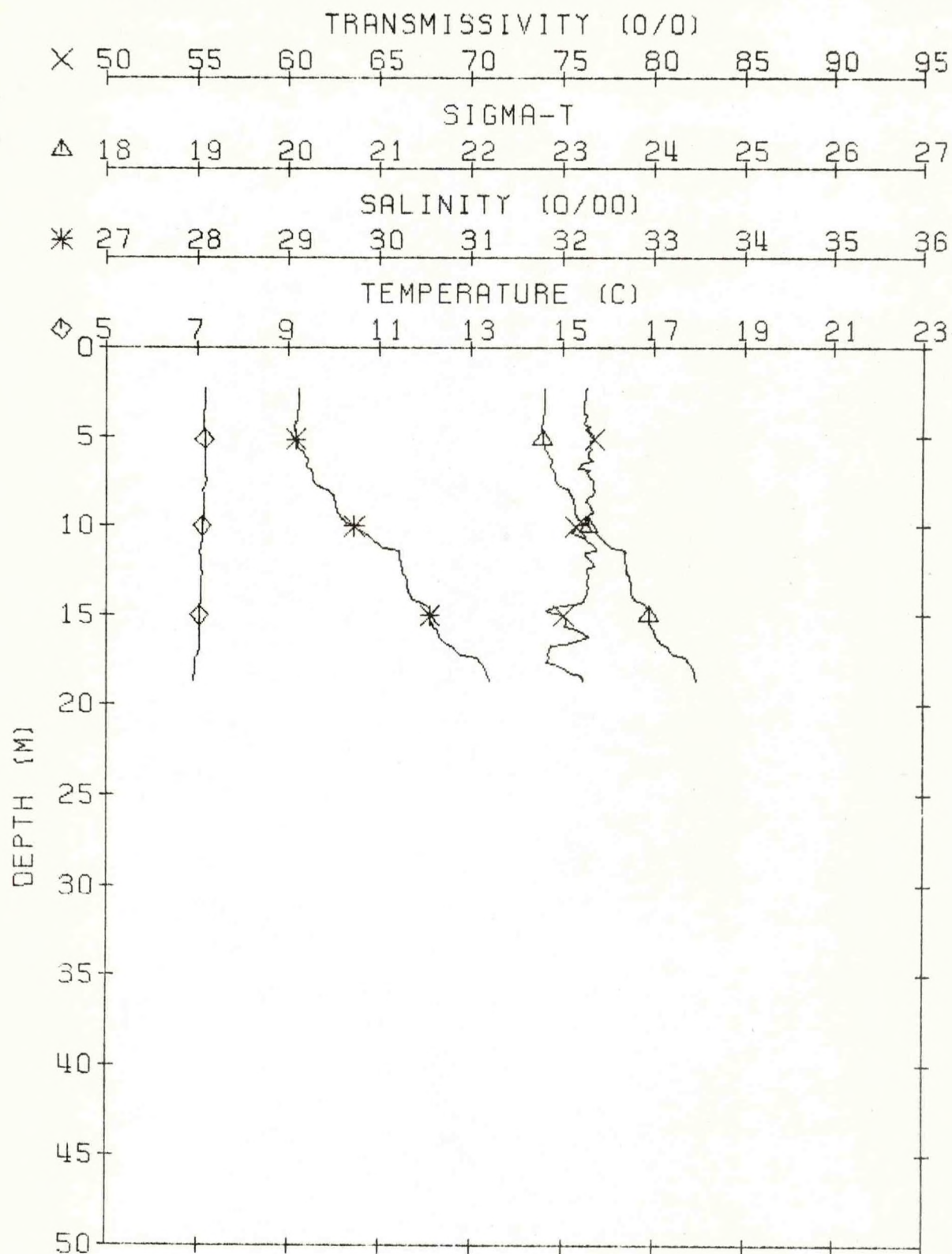
◇ 5 7 9 11 13 15 17 19 21 23



XWCC-08 STA. 21 LAT 40 13.3N; LONG 73 56.1W GMT 01.6 04/13/76
 DEPTH 20 AIR D/W 06.7/00.6 BARO 21.5 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 31/17 SEA DIR/HT 00/0 SWELL DIR/HT 00/0

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	7.14	29.11	22.79	76.30	8.3	7.51	.21	.00	.04	.12
2	7.14	29.11	22.79	76.30	8.3					
3	7.14	29.10	22.79	76.20	8.3					
4	7.12	29.08	22.77	76.20	8.3					
5	7.14	29.08	22.77	76.60	8.3					
6	7.16	29.18	22.88	76.40	8.3					
7	7.16	29.25	22.91	76.40	8.3					
8	7.11	29.42	23.09	76.70	8.3					
9	7.11	29.52	23.14	76.60	8.3					
10	7.08	29.70	23.31	75.80	8.3					
11	7.07	29.98	23.60	76.60	8.3					
12	7.06	30.22	23.68	76.60	8.3					
13	7.06	30.29	23.73	76.30	8.3					
14	7.04	30.34	23.83	76.20	8.3					
15	7.02	30.54	23.94	74.80	8.3					
16	7.02	30.63	24.03	76.00	8.3					
17	6.98	30.84	24.26	74.20	8.3					
18	6.91	31.15	24.44	75.00	8.2	6.38	.17	.00	.24	.13

KELEZ CRUISE XWCC-8 STATION 21 APR. 13, 1976



XWCC-08 STA. 23 LAT 40 14.7N; LONG 73 45.8W GMT 07.0 04/13/76
 DEPTH 52 AIR D/W 06.1/02.1 BARO 22.0 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 27/12 SEA DIR/HT 00/0 SWELL DIR/HT 34/0

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	6.78	30.43	23.88	78.20	8.3	7.27	.18	.00	1.67	.49
2	6.78	30.43	23.88	78.30	8.3					
3	6.77	30.44	23.89	78.30	8.3					
4	6.78	30.45	23.90	78.30	8.3					
5	6.78	30.44	23.89	78.20	8.3					
6	6.78	30.43	23.88	78.50	8.3					
7	6.78	30.43	23.88	78.30	8.3					
8	6.78	30.44	23.89	78.50	8.3					
9	6.79	30.45	23.88	78.40	8.3					
10	6.80	30.45	23.90	78.30	8.3					
11	6.80	30.45	23.90	78.20	8.3					
12	6.82	30.46	23.90	78.30	8.3					
13	6.85	30.47	23.90	78.20	8.3					
14	6.86	30.47	23.90	78.40	8.3					
15	6.88	30.60	24.01	78.40	8.3					
16	6.88	30.68	24.08	78.50	8.3					
17	6.88	30.76	24.14	77.60	8.3					
18	6.90	30.84	24.19	78.30	8.3					
19	6.92	30.89	24.24	78.30	8.3					
20	6.93	30.99	24.31	78.80	8.3	7.27	.22	.00	.16	.14
21	6.94	31.03	24.34	80.00	8.3					
22	6.93	31.07	24.37	80.30	8.3					
23	6.91	31.11	24.40	80.60	8.3					
24	6.94	31.16	24.44	80.00	8.3					
25	6.94	31.18	24.46	80.10	8.3					
26	6.94	31.23	24.49	80.50	8.3					
27	6.92	31.48	24.86	78.60	8.2					
28	6.86	32.03	25.24	78.10	8.1					
29	6.84	32.52	25.59	78.60	8.1					
30	6.86	32.78	25.73	80.00	8.1					
31	6.86	32.87	25.78	80.50	8.1					
32	6.86	32.90	25.82	80.20	8.1					
33	6.86	32.94	25.88	80.40	8.1					
34	6.86	33.05	25.94	80.10	8.1					
35	6.88	33.08	25.95	80.20	8.1					
36	6.87	33.07	25.94	80.00	8.1					
37	6.86	33.09	25.97	80.10	8.1					
38	6.86	33.11	25.98	80.40	8.1					
39	6.86	33.12	25.98	80.20	8.1					
40	6.86	33.12	25.98	80.10	8.1					
41	6.85	33.13	25.99	80.20	8.1					
42	6.85	33.13	25.99	80.30	8.1					
43	6.80	33.15	26.02	80.80	8.1					
44	6.79	33.15	26.01	80.50	8.1					
45	6.82	33.14	26.00	80.80	8.1					
46	6.84	33.13	25.99	80.30	8.1					
47	6.81	33.15	26.02	80.40	8.1					
48	6.82	33.15	26.02	80.50	8.1	5.98	.21	.00	1.29	.46

KELEZ CRUISE XWCC-8 STATION 23 APR. 13, 1976

TRANSMISSIVITY (0/0)

X 50 55 60 65 70 75 80 85 90 95

SIGMA-T

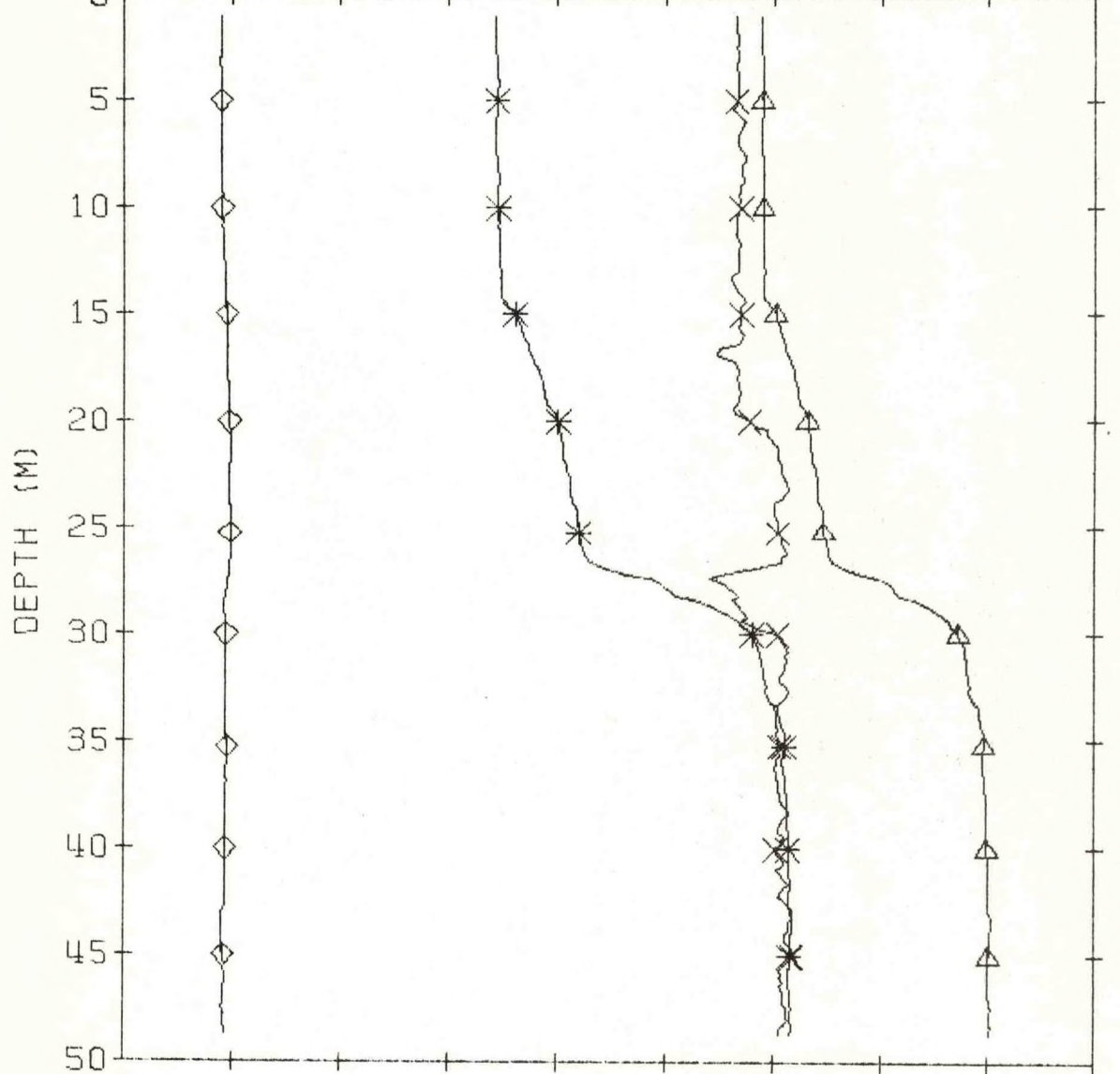
Δ 18 19 20 21 22 23 24 25 26 27

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-08 STA. 25 LAT 40 16.7N; LONG 73 28.2W GMT 13.8 04/13/76
 DEPTH 34 AIR D/W 05.6/02.2 BARO 22.0 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 28/16 SEA DIR/HT 28/0 SWELL DIR/HT 28/2

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	6.73	31.84	24.99	82.40	8.3	7.20	.03	.09	.08	.17
2	6.73	31.84	24.99	82.40	8.3					
3	6.75	31.82	24.97	82.30	8.3					
4	6.78	31.84	24.98	82.50	8.3					
5	6.78	31.84	24.98	82.50	8.3					
6	6.78	31.84	24.98	82.60	8.3					
7	6.78	31.84	24.98	82.50	8.3					
8	6.78	31.84	24.98	82.30	8.3					
9	6.78	31.84	24.98	82.40	8.3					
10	6.78	31.84	24.98	82.30	8.3	7.34	.05	.36	.04	.22
11	6.78	31.84	24.98	82.40	8.3					
12	6.78	31.84	24.98	82.40	8.3					
13	6.79	31.83	24.97	82.50	8.3					
14	6.79	31.83	24.98	82.40	8.3					
15	6.78	31.84	24.98	82.50	8.3					
16	6.78	31.84	24.98	82.60	8.3					
17	6.78	31.84	24.98	82.40	8.3					
18	6.78	31.84	24.98	82.50	8.3					
19	6.78	31.84	24.98	82.60	8.3					
20	6.78	31.84	24.98	82.40	8.3	7.26	.05	.22	.00	.21
21	6.78	31.84	24.98	82.50	8.3					
22	6.78	31.84	24.98	82.50	8.3					
23	6.78	31.84	24.98	82.50	8.3					
24	6.78	31.84	24.99	82.50	8.3					
25	6.79	31.87	25.01	82.40	8.3					
26	6.82	31.85	24.98	82.30	8.3					
27	6.81	31.88	25.03	82.50	8.3					
28	6.83	31.93	25.09	82.20	8.3					
29	6.61	32.40	25.70	79.10	8.1					
30	6.41	32.81	25.80	80.40	8.1	5.88	.07	.20	1.64	.51

KELEZ CRUISE XWCC-8 STATION 25 APR. 13, 1976

TRANSMISSIVITY (0/0)

X 50 55 60 65 70 75 80 85 90 95

SIGMA-T

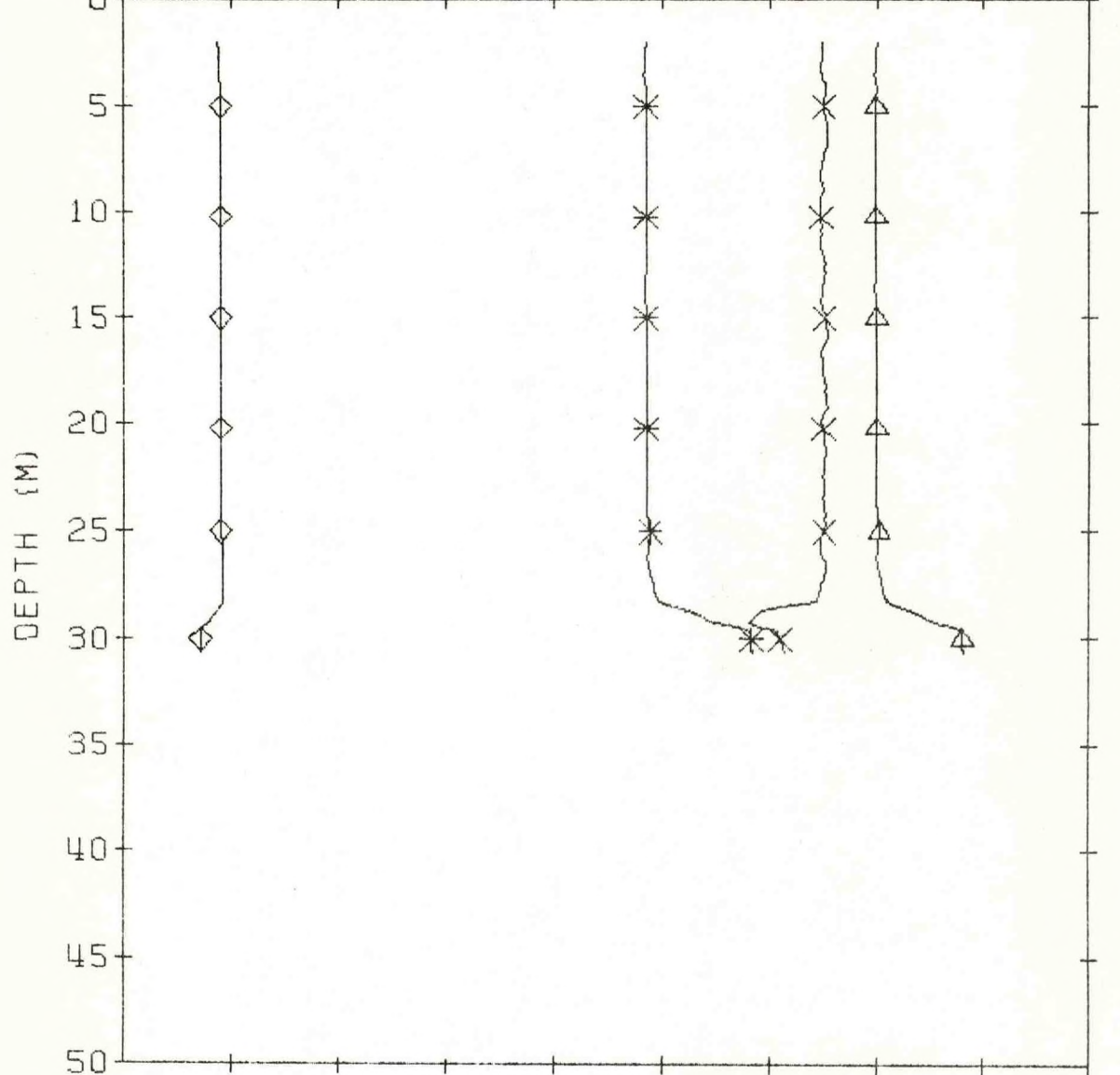
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SALINITY (0/00)

* 27 28 29 30 31 32 33 34 35 36

TEMPERATURE (C)

◇ 5 7 9 11 13 15 17 19 21 23



XWCC-08 STA. 26 LAT 40 29.1N; LONG 73 59.3W GMT 15.6 04/12/76
 DEPTH 8 AIR D/W 38.0/31.0 BARO 23.5 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 13/26 SEA DIR/HT 12/0 SWELL DIR/HT 12/2

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	7.22	22.33	17.48		8.3	7.08	1.45	17.37	1.27	1.20
2	7.23	22.33	17.49		8.3					
3	7.24	22.41	17.55		8.3					
4	7.22	22.51	17.64		8.3					
5	7.19	22.70	17.81		8.3					
6	7.20	22.82	17.88		8.3	7.09	1.22	16.90	1.43	1.40

KELEZ CRUISE XWCC-8 STATION 26 APR. 12, 1976

TRANSMISSIVITY (0/0)

X 50 55 60 65 70 75 80 85 90 95

SIGMA-T

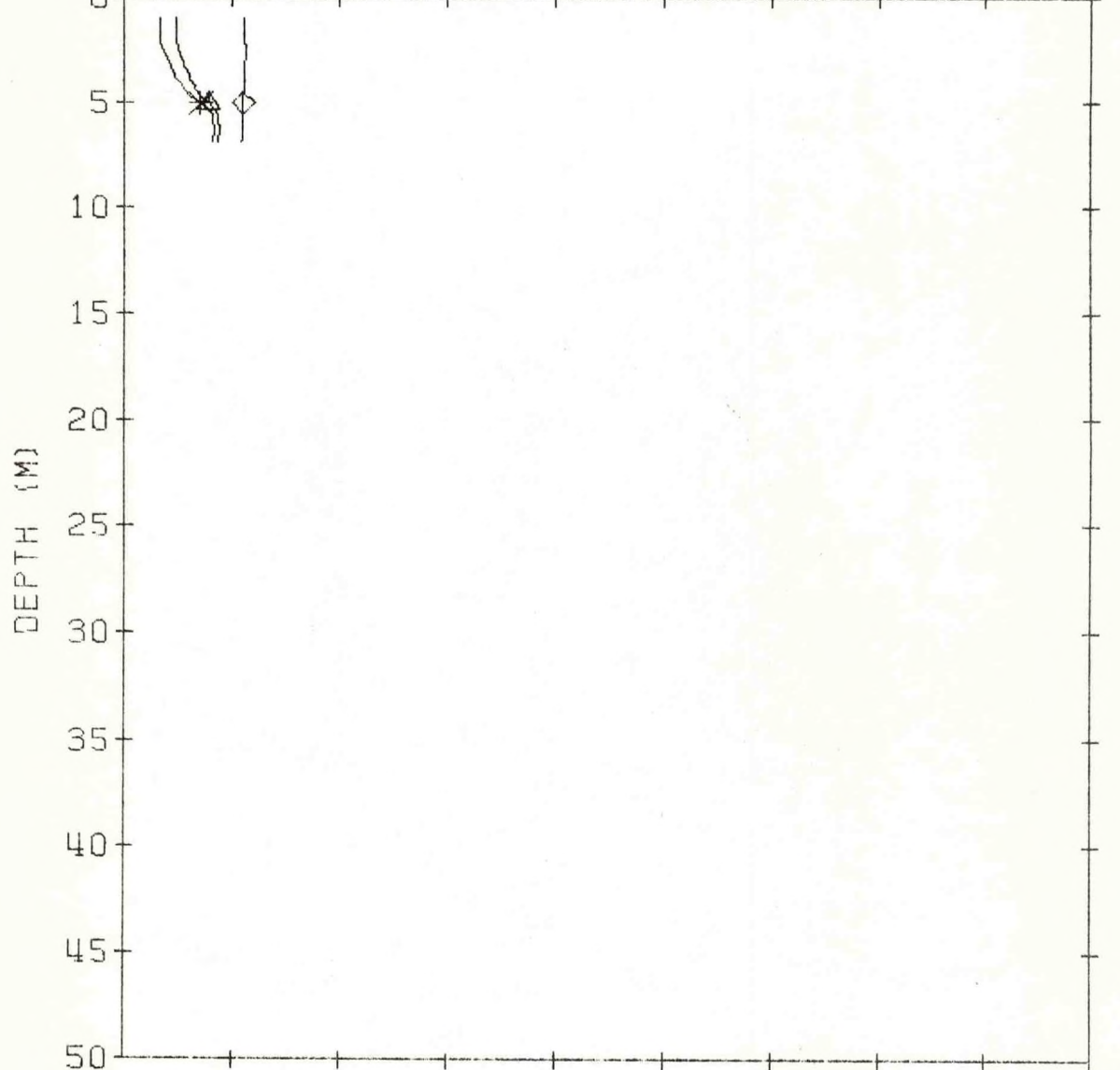
Δ 17 18 19 20 21 22 23 24 25 26

SALINITY (0/00)

* 22 23 24 25 26 27 28 29 30 31

TEMPERATURE (C)

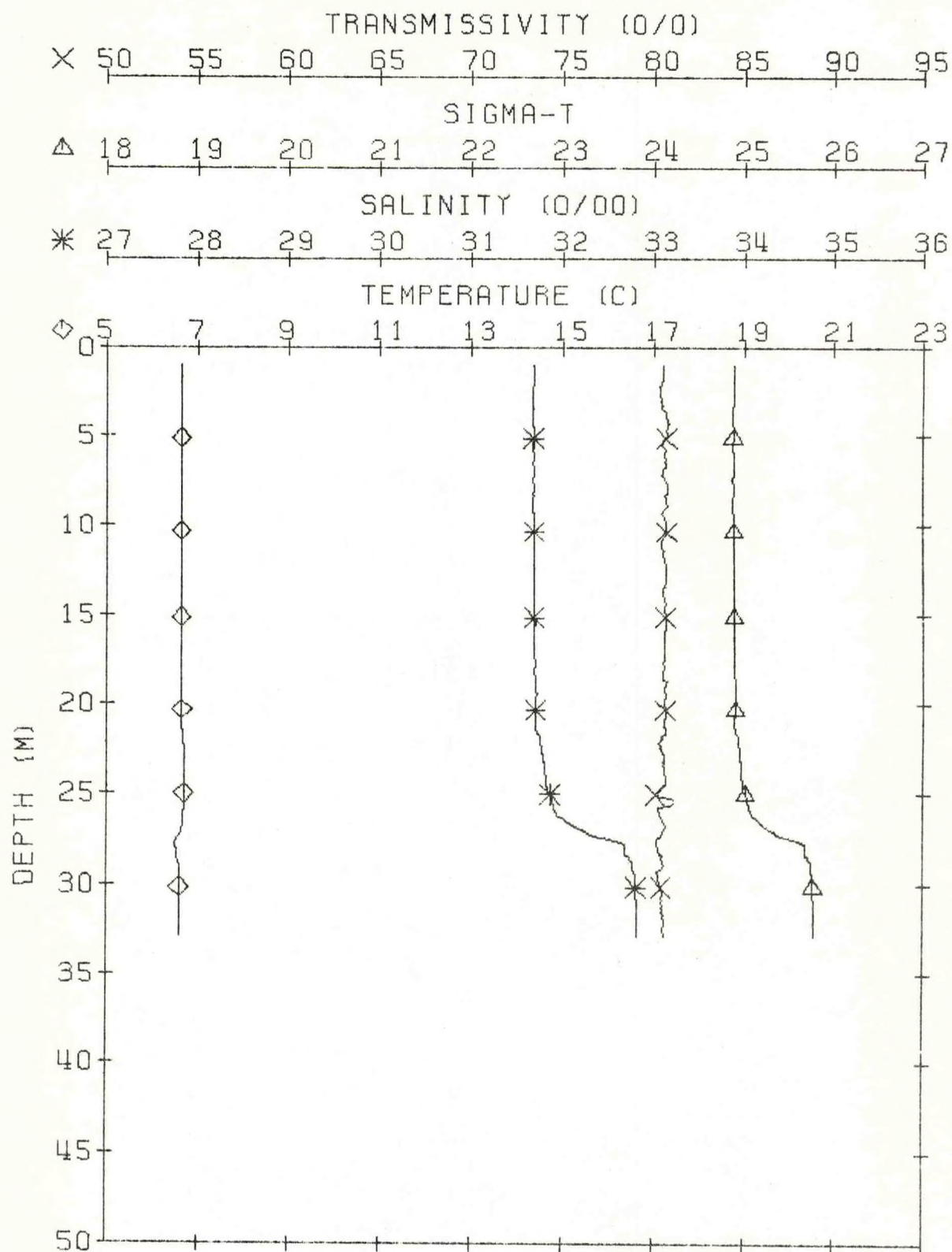
◇ 5 7 9 11 13 15 17 19 21 23



XWCC-08 STA. 27 LAT 40 17.8N; LONG 73 17.5W GMT 12.0 04/13/76
 DEPTH 35 AIR D/W 06.7/03.3 BARO 21.5 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 29/18 SEA DIR/HT 29/0 SWELL DIR/HT 29/2

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	6.61	31.67	24.88	80.50	8.3	7.18	.19	.00	.08	.19
2	6.62	31.67	24.87	80.40	8.3					
3	6.62	31.67	24.87	80.40	8.3					
4	6.63	31.66	24.86	80.70	8.3					
5	6.61	31.67	24.87	80.70	8.3					
6	6.62	31.67	24.87	80.60	8.3					
7	6.61	31.67	24.87	80.40	8.3					
8	6.62	31.67	24.87	80.70	8.3					
9	6.62	31.66	24.86	80.60	8.3					
10	6.62	31.67	24.87	80.60	8.3	7.51	.02	.13	.00	.16
11	6.62	31.68	24.88	80.40	8.3					
12	6.62	31.68	24.88	80.60	8.3					
13	6.62	31.68	24.88	80.60	8.3					
14	6.62	31.68	24.88	80.50	8.3					
15	6.62	31.68	24.88	80.60	8.3					
16	6.62	31.68	24.88	80.50	8.3					
17	6.63	31.68	24.88	80.60	8.3					
18	6.63	31.68	24.88	80.50	8.3					
19	6.63	31.70	24.89	80.60	8.3					
20	6.63	31.69	24.89	80.60	8.3	7.45	.09	.69	.00	.10
21	6.63	31.69	24.89	80.50	8.3					
22	6.66	31.74	24.92	80.30	8.3					
23	6.67	31.77	24.95	80.50	8.3					
24	6.68	31.80	24.97	80.60	8.3					
25	6.68	31.85	25.02	80.10	8.3					
26	6.67	31.92	25.10	80.20	8.3					
27	6.61	32.21	25.46	80.50	8.3					
28	6.50	32.67	25.67	80.20	8.1					
29	6.58	32.76	25.74	80.40	8.1					
30	6.57	32.79	25.77	80.40	8.1					
31	6.57	32.80	25.77	80.40	8.1					
32	6.57	32.80	25.77	80.60	8.1	5.82	.03	.14	1.06	.45

KELEZ CRUISE XWCC-8 STATION 27 APR. 13, 1976



XWCC-08 STA. 28 LAT 40 13.6N; LONG 73 7.1W GMT 13.2 04/14/76
 DEPTH 43 AIR D/W 13.9/12.8 BARO 19.0 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 28/06 SEA DIR/HT 00/0 SWELL DIR/HT 20/0

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	6.87	32.32	25.35	84.40	8.3	7.19	.06	.00	.00	.21
2	6.87	32.33	25.36	84.50	8.3					
3	6.87	32.35	25.37	84.40	8.3					
4	6.87	32.35	25.37	84.70	8.3					
5	6.87	32.36	25.39	84.60	8.3					
6	6.87	32.37	25.39	84.60	8.3					
7	6.87	32.37	25.38	84.40	8.3					
8	6.88	32.37	25.38	84.60	8.3					
9	6.90	32.41	25.42	84.60	8.3					
10	6.92	32.43	25.43	84.10	8.3	7.26	.05	.00	.00	.20
11	6.94	32.48	25.48	84.50	8.3					
12	6.94	32.50	25.48	84.30	8.3					
13	6.90	32.53	25.52	84.80	8.3					
14	6.86	32.53	25.51	84.30	8.3					
15	6.85	32.53	25.52	84.70	8.3					
16	6.84	32.54	25.54	84.60	8.3					
17	6.83	32.56	25.55	84.70	8.3					
18	6.84	32.57	25.55	84.60	8.3					
19	6.84	32.59	25.57	84.50	8.3					
20	6.84	32.61	25.58	84.20	8.3	7.36	.05	.00	.00	.21
21	6.83	32.63	25.60	84.20	8.3					
22	6.81	32.64	25.61	84.10	8.3					
23	6.80	32.65	25.62	83.80	8.3					
24	6.79	32.65	25.62	83.60	8.3					
25	6.79	32.66	25.63	83.70	8.3					
26	6.79	32.66	25.63	83.70	8.3					
27	6.79	32.67	25.63	83.70	8.3					
28	6.79	32.67	25.64	83.60	8.3					
29	6.79	32.68	25.65	83.60	8.3					
30	6.78	32.69	25.65	83.40	8.3					
31	6.77	32.70	25.66	83.70	8.3					
32	6.75	32.70	25.67	83.60	8.3					
33	6.75	32.73	25.69	83.60	8.3					
34	6.72	32.80	25.77	82.50	8.3					
35	6.73	33.00	25.91	79.60	8.2					
36	6.74	33.03	25.93	82.30	8.2					
37	6.75	33.04	25.93	83.30	8.2					
38	6.75	33.04	25.93	83.30	8.2					
39	6.75	33.04	25.93	83.50	8.2					
40	6.75	33.04	25.94	83.60	8.2	6.07	.07	.00	3.70	.44
41	6.76	33.04	25.93	83.60	8.1					

KELEZ CRUISE XWCC-8 STATION 28 APR. 14, 1976

TRANSMISSIVITY (0/0)

X 50 55 60 65 70 75 80 85 90 95

SIGMA-T

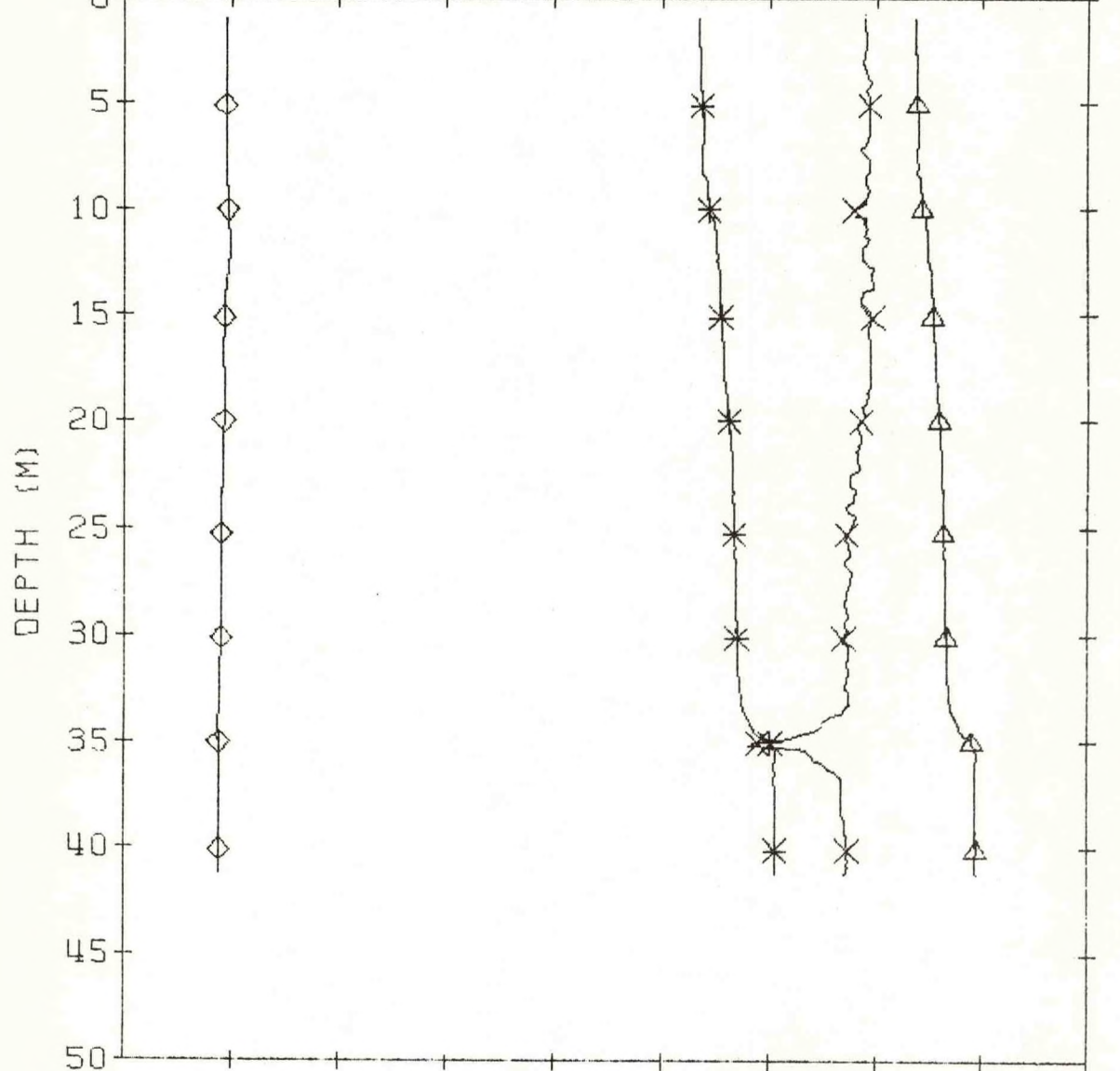
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SALINITY (0/00)

* 27 28 29 30 31 32 33 34 35 36

TEMPERATURE (C)

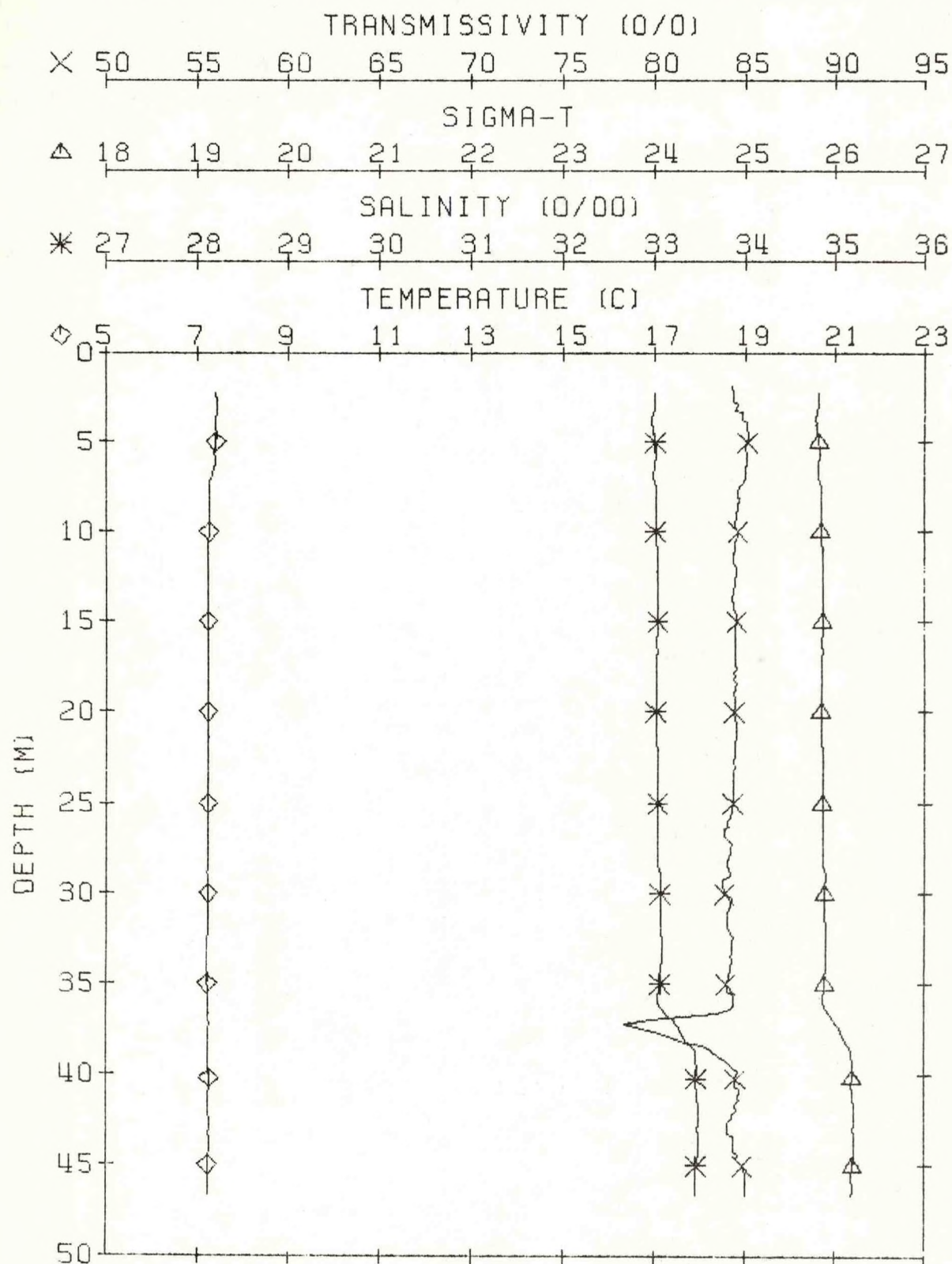
◇ 5 7 9 11 13 15 17 19 21 23



XWCC-08 STA. 29 LAT 40 7.2N; LONG 72 54.3W GMT 15.0 04/14/76
 DEPTH 48 AIR D/W 10.0/07.8 BARO 19.0 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 28/09 SEA DIR/HT 00/0 SWELL DIR/HT 21/0

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	7.40	32.99	25.80	84.20	8.4	7.27	.04	.00	.00	.20
2	7.40	32.99	25.80	84.30	8.3					
3	7.42	32.99	25.79	84.40	8.3					
4	7.38	32.97	25.80	85.00	8.3					
5	7.39	33.00	25.83	85.10	8.3					
6	7.37	33.00	25.81	85.00	8.3					
7	7.28	32.98	25.83	84.90	8.3					
8	7.24	33.00	25.84	84.50	8.3					
9	7.24	33.00	25.84	84.50	8.3					
10	7.24	33.00	25.84	84.50	8.3	7.27	.07	.00	.00	.14
11	7.22	33.02	25.85	84.40	8.3					
12	7.22	33.02	25.85	84.40	8.3					
13	7.22	33.02	25.85	84.40	8.3					
14	7.22	33.02	25.85	84.30	8.3					
15	7.22	33.02	25.85	84.50	8.3					
16	7.22	33.02	25.85	84.40	8.3					
17	7.22	33.01	25.84	84.40	8.3					
18	7.22	33.00	25.84	84.40	8.3					
19	7.22	33.00	25.84	84.40	8.3					
20	7.22	33.00	25.84	84.40	8.3	7.25	.14	.97	2.47	.15
21	7.22	33.01	25.85	84.50	8.3					
22	7.22	33.02	25.85	84.40	8.3					
23	7.22	33.02	25.85	84.30	8.3					
24	7.22	33.02	25.85	84.30	8.3					
25	7.22	33.02	25.85	84.20	8.3					
26	7.22	33.02	25.85	84.00	8.3					
27	7.22	33.03	25.85	84.00	8.3					
28	7.21	33.03	25.86	84.00	8.3					
29	7.21	33.06	25.88	84.00	8.3					
30	7.22	33.05	25.88	83.90	8.3	7.13	.02	.00	.00	.22
31	7.22	33.05	25.88	84.00	8.3					
32	7.21	33.06	25.89	84.10	8.3					
33	7.20	33.07	25.90	84.20	8.3					
34	7.20	33.06	25.88	84.10	8.3					
35	7.20	33.05	25.87	83.90	8.3					
36	7.22	33.03	25.87	84.30	8.3					
37	7.23	33.18	26.01	79.80	8.3					
38	7.23	33.32	26.15	81.00	8.2					
39	7.23	33.44	26.19	83.50	8.2					
40	7.24	33.45	26.18	84.50	8.2					
41	7.23	33.46	26.20	84.60	8.2					
42	7.23	33.48	26.21	84.40	8.2					
43	7.24	33.47	26.21	84.00	8.2					
44	7.24	33.47	26.21	84.30	8.2					
45	7.21	33.45	26.18	84.80	8.2	6.09	.08	.00	1.78	.32
46	7.21	33.44	26.19	85.00	8.2					

KELEZ CRUISE XWCC-8 STATION 29 APR. 14, 1976



XWCC-08 STA. 30 LAT 40 2.2N; LONG 72 41.7W GMT 16.6 04/14/76
 DEPTH 57 AIR D/W 13.3/10.0 BARO 19.0 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 24/09 SEA DIR/HT 00/0 SWELL DIR/HT 20/1

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	S103	P04
1	7.76	32.81	25.61	84.20	8.3	7.30	.05	.00	.00	.14
2	7.76	32.81	25.61	84.20	8.3					
3	7.79	32.77	25.58	84.20	8.3					
4	7.53	32.82	25.67	83.60	8.3					
5	7.25	32.82	25.69	82.40	8.3					
6	7.23	32.82	25.69	82.40	8.3					
7	7.22	32.82	25.70	82.30	8.3					
8	7.22	32.81	25.68	82.20	8.3					
9	7.22	32.79	25.68	82.30	8.3					
10	7.20	32.81	25.70	82.20	8.3	7.45	.10	.00	.00	.22
11	7.18	32.82	25.70	82.20	8.3					
12	7.18	32.83	25.71	82.10	8.3					
13	7.18	32.83	25.71	82.10	8.3					
14	7.19	32.82	25.70	82.70	8.3					
15	7.21	32.80	25.69	82.30	8.3					
16	7.21	32.82	25.70	82.60	8.3					
17	7.21	32.82	25.70	82.40	8.3					
18	7.20	32.86	25.73	82.40	8.3					
19	7.19	32.89	25.76	82.30	8.3					
20	7.15	32.91	25.78	82.40	8.3	7.36	.11	.00	.00	.16
21	7.14	32.91	25.78	82.50	8.3					
22	7.14	32.91	25.78	82.20	8.3					
23	7.14	32.91	25.78	82.20	8.3					
24	7.14	32.91	25.78	82.10	8.3					
25	7.13	32.92	25.79	82.30	8.2					
26	7.12	32.92	25.79	82.50	8.1					
27	7.12	32.92	25.78	82.60	8.1					
28	7.12	32.91	25.78	82.40	8.1					
29	7.12	32.91	25.78	82.60	8.1					
30	7.11	32.93	25.81	82.60	8.1	7.21	.12	.00	.00	.21
31	7.12	32.93	25.80	82.30	8.1					
32	7.12	32.94	25.81	82.00	8.1					
33	7.13	32.95	25.81	82.20	8.1					
34	7.14	32.95	25.81	82.30	8.1					
35	7.14	32.96	25.83	82.40	8.1					
36	7.20	33.05	25.90	82.40	8.1					
37	7.31	33.23	26.03	82.50	8.1					
38	7.36	33.32	26.07	82.80	8.1					
39	7.37	33.35	26.09	84.00	8.1					
40	7.39	33.35	26.09	84.10	8.1					
41	7.39	33.35	26.09	84.10	8.1					
42	7.39	33.38	26.11	83.70	8.1					
43	7.39	33.39	26.11	84.20	8.1					
44	7.39	33.39	26.12	84.10	8.1					
45	7.39	33.37	26.10	84.10	8.1					
46	7.39	33.37	26.11	84.20	8.1					
47	7.39	33.37	26.11	84.20	8.1					
48	7.39	33.37	26.11	84.20	8.1					
49	7.39	33.37	26.11	84.10	8.1					
50	7.39	33.37	26.11	84.20	8.1					
55	7.39	33.39	26.12	84.20	8.1	6.22	.05	.00	1.96	.32
56	7.39	33.38	26.11	84.20	8.1					

KELEZ CRUISE XWCC-8 STATION 30 APR. 14, 1976

TRANSMISSIVITY (0/0)

X 50 55 60 65 70 75 80 85 90 95

SIGMA-T

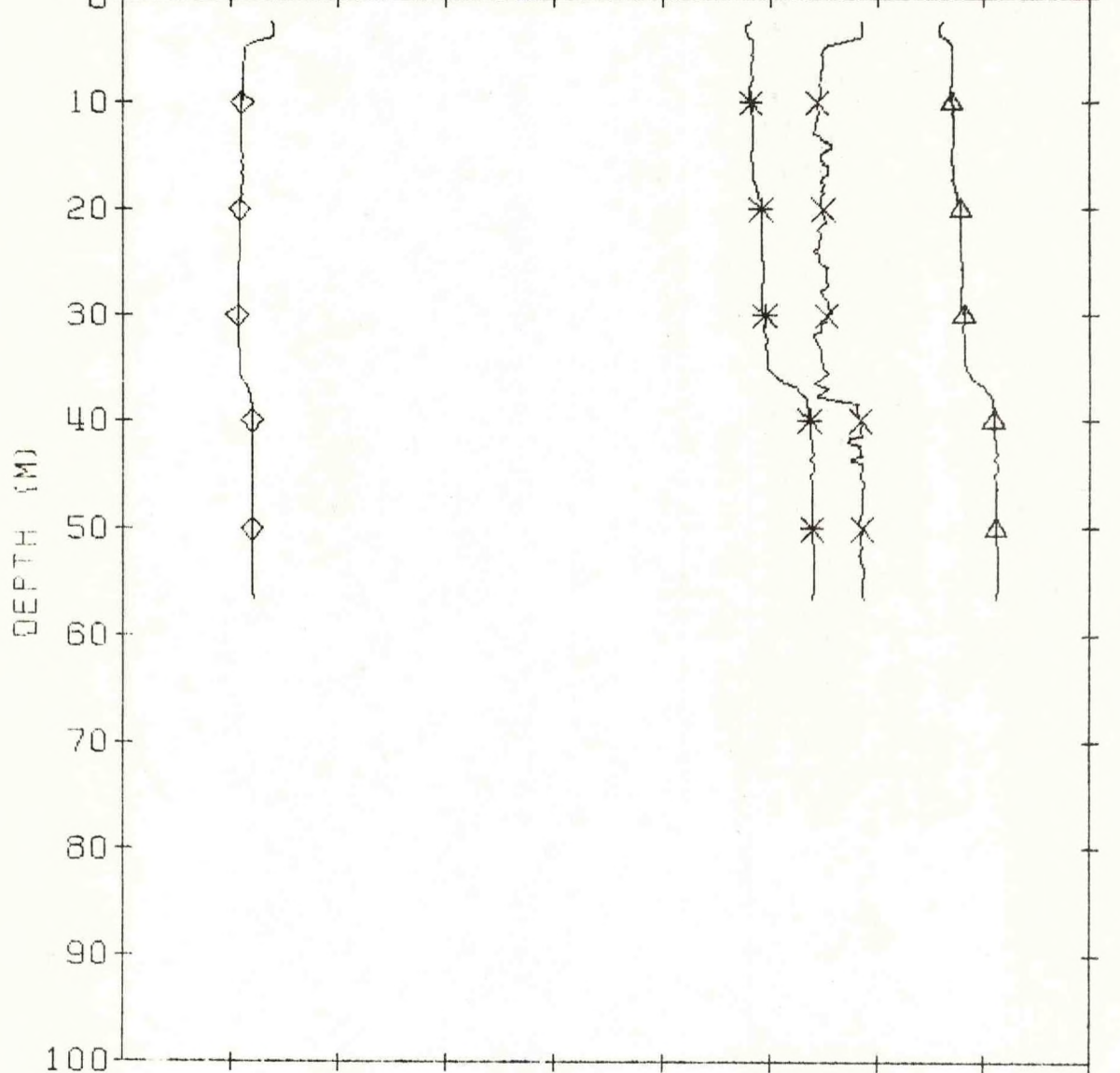
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SALINITY (0/00)

* 27 28 29 30 31 32 33 34 35 36

TEMPERATURE (C)

◇ 5 7 9 11 13 15 17 19 21 23



XWCC-08 STA. 31 LAT 39 54.0N; LONG 72 25.1W GMT 09.6 04/15/76
 DEPTH 76 AIR D/W 08.9/07.8 BARO 20.0 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 24/12 SEA DIR/HT 00/0 SWELL DIR/HT 24/0

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	7.69	33.05	25.81	82.00	8.1	7.29	.04	.34	.00	.33
2	7.70	33.04	25.79	82.00	8.1					
3	7.71	33.02	25.80	81.20	8.1					
4	7.63	33.04	25.83	80.70	8.1					
5	7.51	33.03	25.80	80.50	8.1					
6	7.38	33.02	25.83	80.50	8.1					
7	7.39	33.03	25.84	80.20	8.1					
8	7.42	33.03	25.84	80.30	8.1					
9	7.44	33.06	25.85	80.70	8.1					
10	7.44	33.04	25.83	81.50	8.1	7.32	.07	.51	1.53	.34
11	7.42	33.03	25.84	82.10	8.1					
12	7.42	33.03	25.83	82.20	8.1					
13	7.43	33.02	25.83	82.30	8.1					
14	7.41	33.04	25.85	82.00	8.1					
15	7.41	33.04	25.83	82.00	8.1					
16	7.42	33.03	25.84	82.20	8.1					
17	7.40	33.05	25.84	82.40	8.1					
18	7.41	33.05	25.85	82.40	8.1					
19	7.41	33.04	25.84	82.50	8.1					
20	7.41	33.04	25.84	82.50	8.1	7.23	.05	.62	2.32	.34
21	7.39	33.06	25.86	82.60	8.1					
22	7.38	33.05	25.86	82.30	8.1					
23	7.37	33.06	25.86	82.20	8.1					
24	7.38	33.05	25.86	82.70	8.1					
25	7.38	33.05	25.86	82.80	8.1					
26	7.37	33.06	25.86	82.70	8.1					
27	7.36	33.08	25.88	84.00	8.1					
28	7.36	33.07	25.87	83.50	8.1					
29	7.36	33.07	25.87	84.00	8.1					
30	7.36	33.07	25.87	84.10	8.1					
31	7.36	33.07	25.87	84.10	8.1					
32	7.36	33.06	25.87	84.20	8.1					
33	7.35	33.08	25.88	84.30	8.1					
34	7.35	33.08	25.87	84.30	8.1					
35	7.36	33.08	25.89	84.30	8.1					
36	7.37	33.09	25.89	84.40	8.1					
37	7.39	33.14	25.95	84.40	8.1					
38	7.41	33.22	25.99	84.40	8.1					
39	7.44	33.25	26.01	84.50	8.1					
40	7.54	33.31	26.05	84.60	8.1	7.00	.41	.58	1.76	.28
41	7.57	33.34	26.05	84.60	8.1					
42	7.67	33.38	26.10	84.40	8.1					
43	7.88	33.50	26.15	84.40	8.1					
44	7.99	33.55	26.18	84.40	8.1					
45	8.05	33.58	26.18	84.40	8.1					
46	8.07	33.59	26.18	84.40	8.1					
47	8.04	33.59	26.17	84.30	8.1					
48	8.13	33.56	26.14	84.30	8.1					
49	8.16	33.59	26.16	84.20	8.1					
50	8.20	33.59	26.15	84.20	8.1					
60	8.27	33.62	26.17	84.20	8.1					
70	8.27	33.68	26.22	84.00	8.1	6.02	.41	6.10	8.06	.70

KELEZ CRUISE XWCC-8 STATION 31 APR. 15, 1976

TRANSMISSIVITY (0/0)

X 50 55 60 65 70 75 80 85 90 95

SIGMA-T

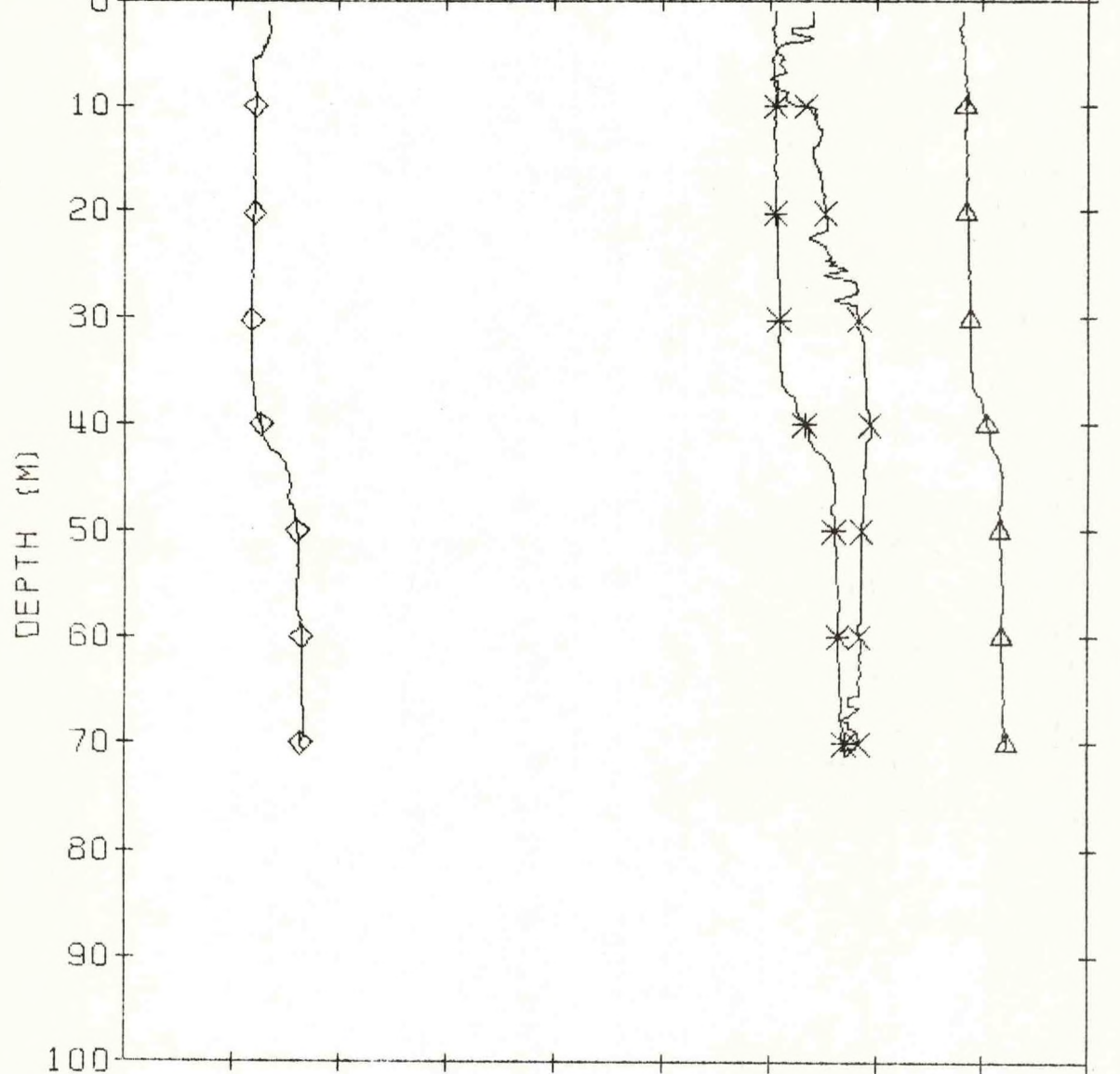
△ 18 19 20 21 22 23 24 25 26 27

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-08 STA. 33 LAT 40 9.7N; LONG 73 42.0W GMT 05.3 04/13/76
 DEPTH 53 AIR D/W 06.1/ . BARO 22.0 VIS 7 CLD YYP/CVR /0
 WETHR 0 WIND DIR/SPD 30/12 SEA DIR/HT 00/0 SWELL DIR/HT 36/1

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	6.66	30.97	24.32	80.00	8.3	7.11	.23	.00	.00	.11
2	6.67	30.94	24.29	79.80	8.3					
3	6.66	30.95	24.30	80.00	8.3					
4	6.66	30.94	24.30	79.60	8.3					
5	6.67	30.96	24.31	79.90	8.3					
6	6.68	30.96	24.31	79.50	8.3					
7	6.68	30.97	24.31	79.90	8.3					
8	6.70	31.00	24.35	79.00	8.3					
9	6.73	31.04	24.37	79.40	8.3					
10	6.76	31.09	24.43	79.90	8.3	7.06	.19	.00	.28	.21
11	6.79	31.18	24.48	80.30	8.3					
12	6.81	31.20	24.49	80.40	8.3					
13	6.84	31.27	24.54	80.70	8.3					
14	6.85	31.31	24.58	80.80	8.3					
15	6.87	31.42	24.66	80.30	8.3					
16	6.88	31.46	24.70	80.50	8.3					
17	6.89	31.55	24.77	80.60	8.3					
18	6.88	31.59	24.84	80.60	8.3					
19	6.88	31.71	24.88	81.60	8.3					
20	6.87	31.77	24.93	82.00	8.3	7.31	.23	.00	.04	.18
21	6.87	31.80	24.94	82.20	8.3					
22	6.87	31.81	24.95	82.30	8.3					
23	6.87	31.81	24.95	82.20	8.3					
24	6.87	31.82	24.96	82.40	8.3					
25	6.86	31.83	24.96	82.30	8.3					
26	6.87	31.82	24.96	82.30	8.3					
27	6.86	31.82	24.96	82.30	8.3					
28	6.86	31.82	24.96	82.30	8.3					
29	6.86	31.82	24.96	82.40	8.3					
30	6.86	31.82	24.96	82.40	8.3					
31	6.85	31.83	24.96	82.40	8.3					
32	6.85	31.83	24.96	82.40	8.3					
33	6.85	31.83	24.97	82.30	8.3					
34	6.84	31.85	24.99	82.20	8.3					
35	6.76	32.15	25.31	79.80	8.3					
36	6.66	32.66	25.72	80.40	8.1					
37	6.61	32.86	25.84	82.60	8.1					
38	6.63	33.05	26.00	82.20	8.1					
39	6.73	33.20	26.07	81.00	8.1					
40	6.74	33.22	26.08	81.70	8.1	5.43	.20	.56	2.46	.66
41	6.75	33.25	26.09	81.30	8.1					
42	6.76	33.24	26.09	80.90	8.1					
43	6.76	33.24	26.09	80.60	8.1					
44	6.76	33.24	26.09	81.10	8.1					
45	6.77	33.24	26.09	81.30	8.1	5.65	.22	.27	1.37	.40

KELEZ CRUISE XWCC-8 STATION 33 APR. 13, 1976

TRANSMISSIVITY (0/0)

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SIGMA-T

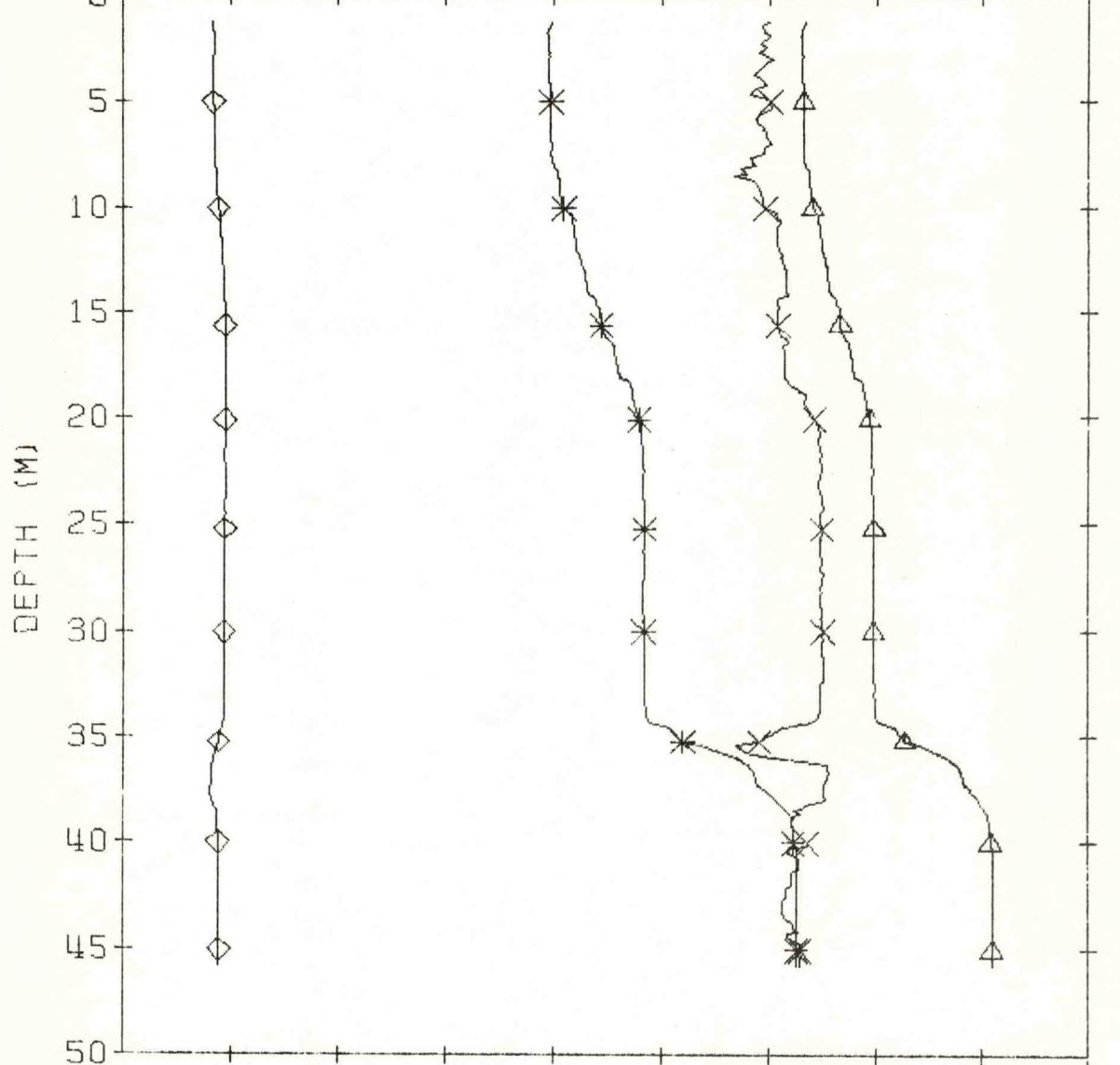
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SALINITY (0/00)

* 27 28 29 30 31 32 33 34 35 36

TEMPERATURE (C)

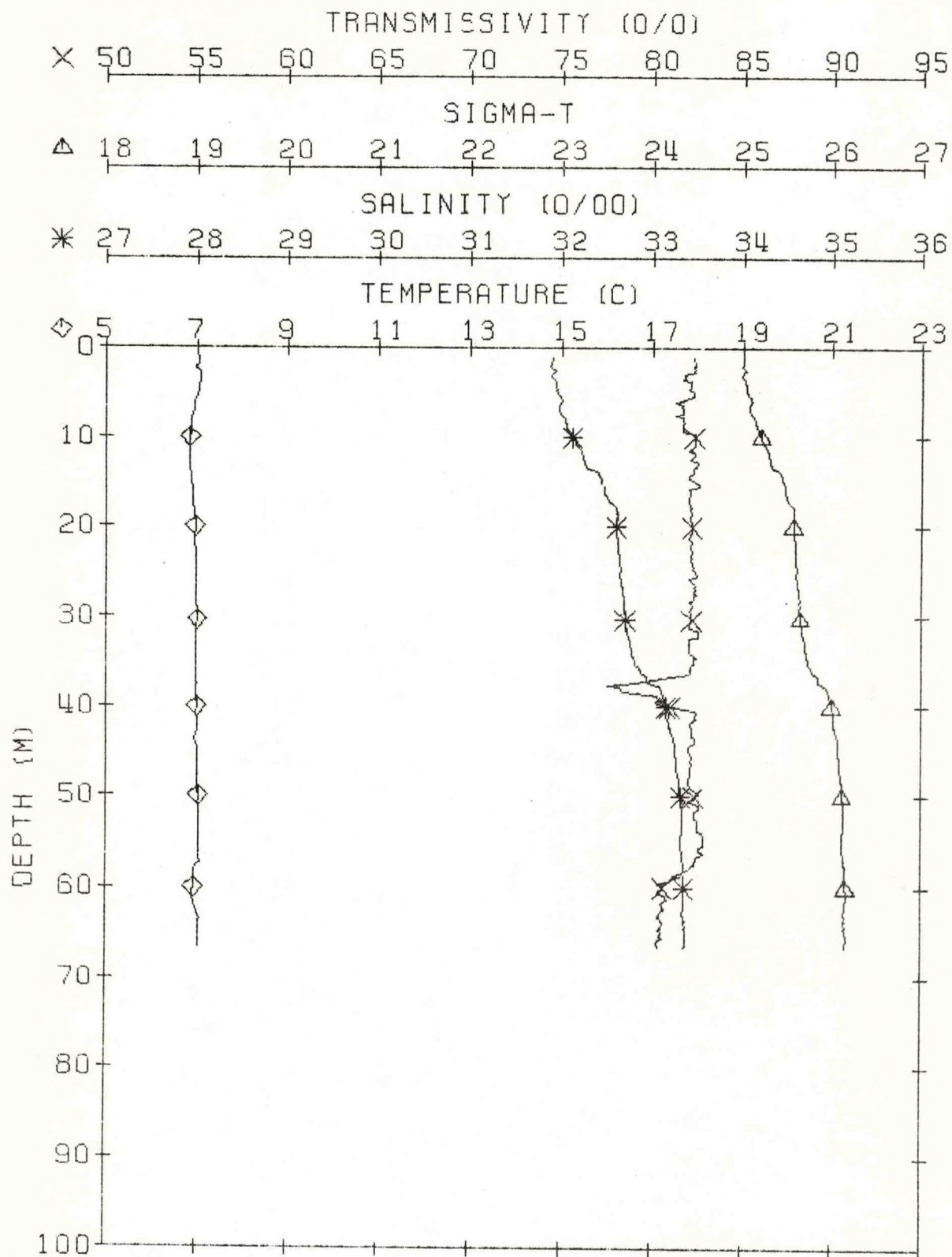
◇ 5 7 9 11 13 15 17 19 21 23



XWCC-08 STA. 34 LAT 40 5.7N; LONG 73 31.7W GMT 18.6 04/13/76
 DEPTH 71 AIR D/W 08.9/ BARO 19.0 VIS 8 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 20/12 SEA DIR/HT 20/1 SWELL DIR/HT 00/0

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	7.02	31.89	25.00	82.20	8.3	4.31	.09	.00	.00	.08
2	6.96	31.86	25.00	82.20	8.3					
3	7.04	31.88	24.99	81.80	8.3					
4	7.03	31.93	25.03	82.10	8.3					
5	6.99	31.95	25.06	82.20	8.3					
6	6.93	31.98	25.06	81.40	8.3					
7	6.89	31.97	25.09	81.60	8.3					
8	6.85	32.02	25.13	81.70	8.3					
9	6.84	32.06	25.17	81.70	8.3					
10	6.83	32.11	25.20	82.30	8.3	7.44	.03	.00	.00	.18
11	6.82	32.17	25.25	82.20	8.3					
12	6.82	32.22	25.29	82.20	8.3					
13	6.82	32.25	25.31	82.40	8.3					
14	6.84	32.39	25.42	82.10	8.3					
15	6.86	32.44	25.45	82.30	8.3					
16	6.88	32.46	25.46	82.00	8.3					
17	6.89	32.51	25.52	82.00	8.3					
18	6.91	32.60	25.56	82.10	8.3					
19	6.93	32.60	25.56	82.10	8.3					
20	6.94	32.59	25.55	82.10	8.3					
21	6.93	32.60	25.57	82.00	8.3					
22	6.93	32.61	25.57	82.10	8.3					
23	6.94	32.62	25.58	82.10	8.3					
24	6.94	32.62	25.59	82.10	8.3					
25	6.94	32.63	25.58	82.30	8.3					
26	6.96	32.64	25.59	82.10	8.3					
27	6.96	32.66	25.61	82.20	8.3					
28	6.96	32.67	25.62	82.10	8.3					
29	6.97	32.68	25.62	82.00	8.3	7.46	.03	.00	.04	.27
30	6.95	32.70	25.64	82.00	8.3					
31	6.94	32.72	25.66	82.50	8.3					
32	6.94	32.74	25.67	82.00	8.3					
33	6.95	32.76	25.69	82.10	8.3					
34	6.96	32.79	25.72	82.20	8.3					
35	6.96	32.86	25.81	82.10	8.2					
36	6.96	32.94	25.84	79.70	8.1					
37	6.96	33.08	25.94	78.20	8.1					
38	6.96	33.12	25.98	80.20	8.1					
39	6.97	33.15	25.99	81.00	8.1					
40	6.97	33.17	26.00	82.40	8.1					
41	6.97	33.18	26.02	82.10	8.1					
42	6.95	33.21	26.06	82.10	8.1					
43	6.95	33.23	26.06	82.20	8.1					
44	6.99	33.24	26.06	82.00	8.1					
45	6.99	33.26	26.07	82.10	8.1					
46	6.99	33.26	26.08	82.10	8.1					
47	6.99	33.29	26.10	82.00	8.1					
48	6.99	33.30	26.10	82.10	8.1					
49	7.00	33.31	26.12	82.30	8.1	5.97	.06	.81	5.45	.57
50	6.90	33.34	26.15	80.50	8.1					
51	7.02	33.36	26.15	80.40	8.1	5.95	.09	.76	5.87	.54
52	7.02	33.36	26.14	80.20	8.1					

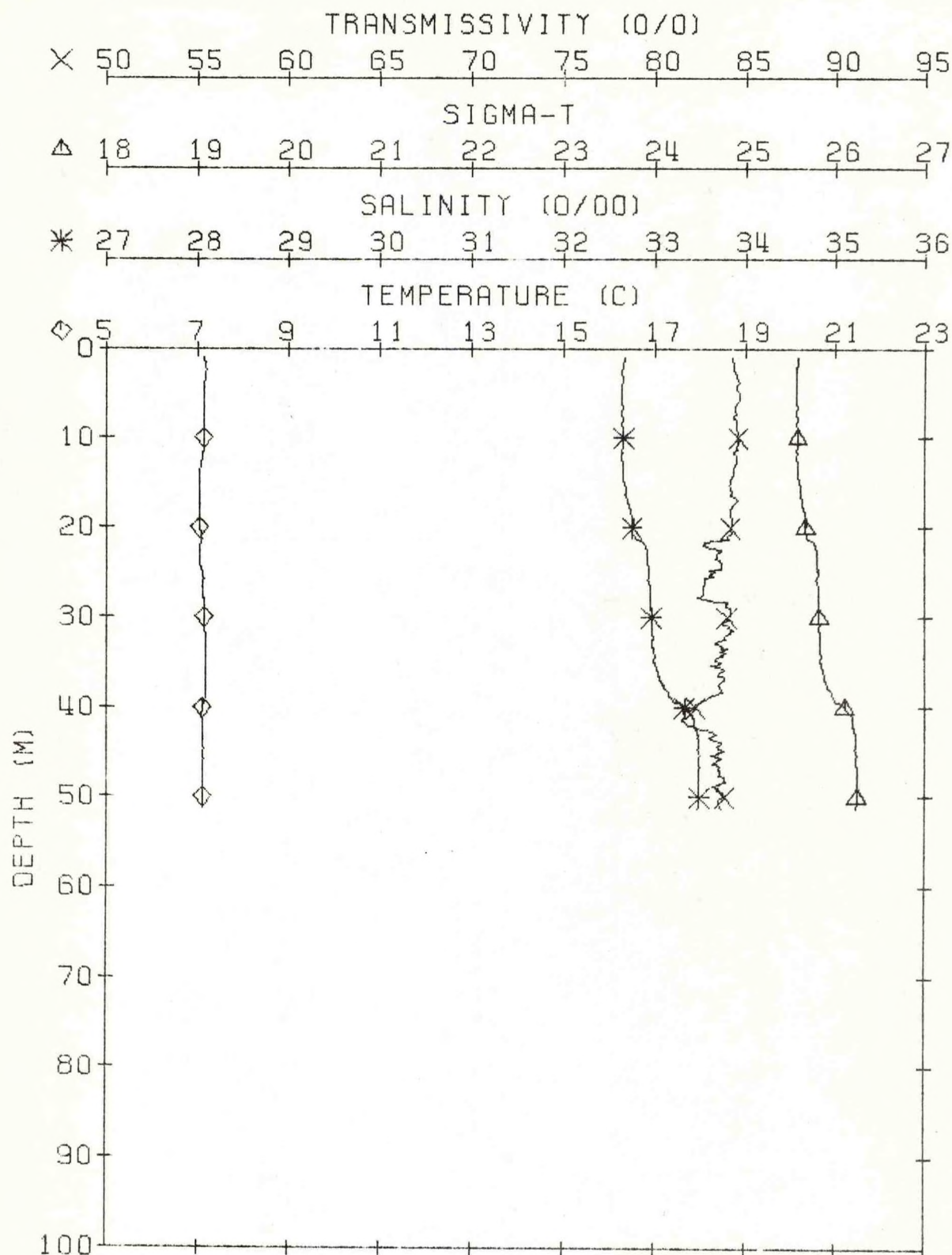
KELEZ CRUISE XWCC-8 STATION 34 APR. 13, 1976



XWCC-08 STA. 35 LAT 40 1.0N; LONG 73 21.8W GMT 22.1 04/13/76
 DEPTH 53 AIR D/W 10.0/07.8 BARO 16.0 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 20/18 SEA DIR/HT 20/0 SWELL DIR/HT 20/1

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	7.13	32.66	25.58	84.20	8.3		.07	.00	.00	.29
2	7.16	32.64	25.56	84.30	8.3					
3	7.14	32.63	25.56	84.50	8.3					
4	7.11	32.63	25.56	84.50	8.3					
5	7.12	32.62	25.56	84.60	8.3					
6	7.12	32.63	25.57	84.50	8.3					
7	7.12	32.63	25.56	84.40	8.3					
8	7.12	32.64	25.56	84.40	8.3					
9	7.12	32.64	25.57	84.50	8.3					
10	7.12	32.65	25.57	84.50	8.3	7.28	.12	.00	.00	.14
11	7.12	32.64	25.56	84.50	8.3					
12	7.08	32.63	25.56	84.40	8.3					
13	7.05	32.64	25.58	84.40	8.3					
14	7.02	32.64	25.58	84.30	8.3					
15	7.01	32.66	25.61	84.10	8.3					
16	7.01	32.67	25.60	84.20	8.3					
17	7.02	32.70	25.63	84.50	8.3					
18	7.02	32.72	25.65	84.10	8.3					
19	7.01	32.75	25.67	84.20	8.3					
20	7.02	32.74	25.65	84.10	8.3	7.44	.09	.00	.00	.18
21	7.06	32.78	25.69	84.00	8.3					
22	7.02	32.88	25.78	82.80	8.3					
23	7.02	32.91	25.79	83.40	8.3					
24	7.03	32.91	25.80	83.60	8.3					
25	7.07	32.93	25.80	83.10	8.3					
26	7.10	32.92	25.80	82.70	8.3					
27	7.08	32.94	25.81	82.60	8.3					
28	7.11	32.95	25.81	82.70	8.3					
29	7.12	32.95	25.81	84.10	8.3					
30	7.12	32.95	25.82	84.00	8.3	7.23	.09	.00	.00	.14
31	7.12	32.95	25.81	84.00	8.3					
32	7.14	32.97	25.82	83.90	8.3					
33	7.14	32.96	25.81	83.50	8.3					
34	7.15	32.98	25.83	83.70	8.3					
35	7.16	32.99	25.84	83.60	8.3					
36	7.16	33.00	25.86	83.70	8.3					
37	7.16	33.05	25.89	83.70	8.3					
38	7.16	33.11	25.95	83.60	8.3					
39	7.13	33.18	26.01	82.80	8.2					
40	7.09	33.32	26.12	82.10	8.2					
41	7.07	33.42	26.19	81.60	8.2					
42	7.08	33.43	26.20	82.10	8.2					
43	7.09	33.47	26.22	83.30	8.2					
44	7.09	33.47	26.22	83.60	8.1					
45	7.09	33.48	26.23	83.50	8.1					
46	7.09	33.48	26.23	83.40	8.1					
47	7.08	33.48	26.24	83.50	8.1					
48	7.08	33.48	26.24	83.80	8.1					
49	7.08	33.48	26.24	83.40	8.1					
50	7.08	33.48	26.24	83.70	8.1	5.92	.06	.32	4.70	.51
51	7.09	33.48	26.22	83.50	8.1					

KELEZ CRUISE XWCC-8 STATION 35 APR. 13, 1976



XWCC-08 STA. 36 LAT 39 55.0N; LONG 73 6.4W GMT 02.1 04/14/76
 DEPTH 68 AIR D/W 10.0/07.8 BARO 17.0 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 23/19 SEA DIR/HT 23/0 SWELL DIR/HT 18/2

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	7.30	32.84	25.70	82.60	8.3	7.21	.03	.00	.65	1.11
2	7.32	32.84	25.68	82.40	8.3					
3	7.31	32.83	25.68	82.20	8.3					
4	7.32	32.85	25.71	82.40	8.3					
5	7.32	32.86	25.72	82.50	8.3					
6	7.32	32.86	25.71	82.60	8.3					
7	7.32	32.82	25.68	82.40	8.3					
8	7.32	32.83	25.70	82.40	8.3					
9	7.32	32.85	25.72	82.30	8.3					
10	7.32	32.85	25.71	82.40	8.3	7.16	.13	.00	.00	.09
11	7.34	32.87	25.72	82.50	8.3					
12	7.36	32.88	25.74	82.50	8.3					
13	7.36	32.90	25.75	82.40	8.3					
14	7.38	32.96	25.78	82.40	8.3					
15	7.38	32.96	25.79	82.40	8.3					
16	7.39	33.00	25.83	82.30	8.3					
17	7.38	33.06	25.87	82.30	8.3					
18	7.38	33.08	25.87	82.30	8.3					
19	7.36	33.08	25.88	82.20	8.3					
20	7.34	33.10	25.90	82.20	8.3	7.13	.18	.00	.00	.14
21	7.32	33.11	25.90	82.10	8.3					
22	7.31	33.11	25.92	82.20	8.3					
23	7.28	33.14	25.94	82.10	8.3					
24	7.28	33.13	25.93	82.20	8.3					
25	7.28	33.12	25.93	82.20	8.3					
26	7.28	33.12	25.93	82.20	8.3					
27	7.28	33.13	25.93	82.30	8.3					
28	7.28	33.14	25.94	82.30	8.3					
29	7.28	33.14	25.94	82.30	8.3					
30	7.28	33.14	25.94	82.40	8.3	7.13	.09	.00	.00	1.00
31	7.30	33.14	25.94	82.30	8.3					
32	7.31	33.14	25.93	82.40	8.3					
33	7.30	33.14	25.94	82.30	8.3					
34	7.32	33.12	25.92	82.40	8.3					
35	7.31	33.13	25.92	82.40	8.3					
36	7.32	33.13	25.93	82.50	8.3					
37	7.28	33.16	25.96	82.30	8.3					
38	7.28	33.16	25.96	82.40	8.3					
39	7.28	33.16	25.96	82.50	8.3					
40	7.29	33.15	25.93	82.40	8.3					
41	7.29	33.15	25.96	82.40	8.3					
42	7.27	33.17	25.97	82.30	8.2					
43	7.23	33.18	25.99	82.30	8.1					
44	7.22	33.20	26.00	82.30	8.1					
45	7.16	33.26	26.06	82.40	8.1					
46	7.13	33.28	26.08	82.40	8.1					
47	7.12	33.33	26.13	82.90	8.1					
48	7.23	33.41	26.16	83.60	8.1					
49	7.26	33.43	26.16	82.80	8.1					
50	7.27	33.42	26.16	82.80	8.1					
60	7.29	33.45	26.18	82.40	8.1					
65	7.29	33.47	26.19	82.40	8.1	5.91	.13	.04	2.82	.34
66	7.29	33.49	26.21	82.70	8.1					

KELEZ CRUISE XWCC-8 STATION 36 APR. 14, 1976

TRANSMISSIVITY (0/0)

X 50 55 60 65 70 75 80 85 90 95

SIGMA-T

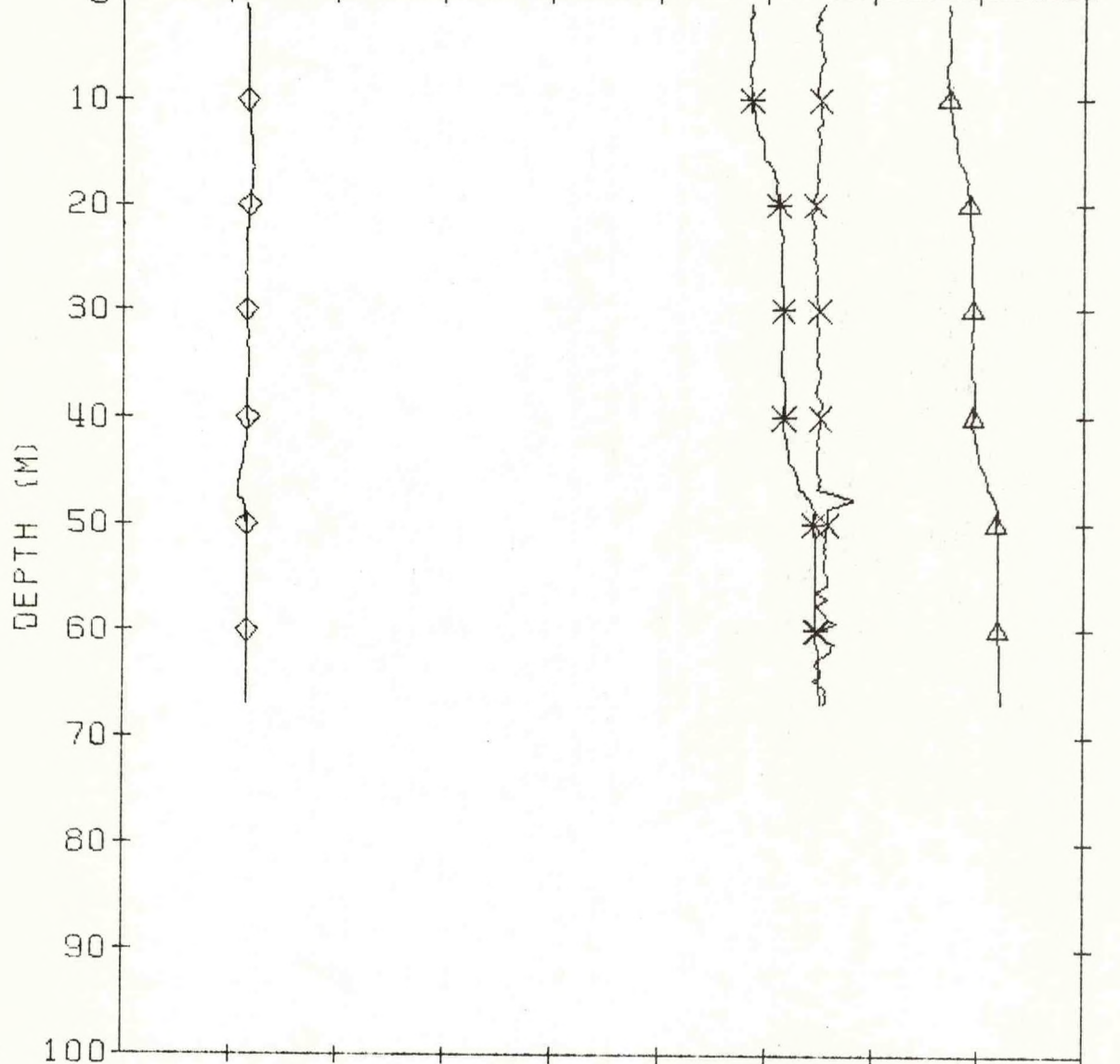
△ 18 19 20 21 22 23 24 25 26 27

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-08 STA. 37 LAT 39 46.3N; LONG 72 56.8W GMT 06.2 04/14/76
 DEPTH 72 AIR D/W 10.6/08.3 BARO 18.0 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 25/14 SEA DIR/HT 00/0 SWELL DIR/HT 23/1

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	7.36	32.93	25.77	82.00	8.3	7.16	.03	.00	.00	.21
2	7.35	32.96	25.81	82.10	8.3					
3	7.33	33.02	25.85	82.10	8.3					
4	7.36	33.06	25.87	81.80	8.3					
5	7.36	33.06	25.87	81.10	8.3					
6	7.36	33.07	25.88	80.90	8.3					
7	7.37	33.08	25.88	80.60	8.3					
8	7.40	33.10	25.89	81.00	8.3					
9	7.38	33.12	25.91	81.00	8.3					
10	7.42	33.12	25.88	81.00	8.3	7.11	.02	.00	.00	.23
11	7.42	33.09	25.89	81.20	8.3					
12	7.44	33.10	25.89	80.50	8.3					
13	7.45	33.17	25.94	80.80	8.3					
14	7.46	33.16	25.93	80.50	8.3					
15	7.46	33.17	25.95	80.60	8.3					
16	7.46	33.18	25.95	80.50	8.3					
17	7.46	33.18	25.94	80.60	8.3					
18	7.48	33.17	25.94	80.60	8.3					
19	7.48	33.19	25.95	80.60	8.3					
20	7.48	33.19	25.95	80.60	8.3	7.03	.06	.00	.00	.25
21	7.48	33.19	25.95	80.60	8.3					
22	7.48	33.19	25.96	80.60	8.3					
23	7.46	33.20	25.96	80.50	8.3					
24	7.44	33.19	25.97	80.50	8.3					
25	7.41	33.20	25.96	80.40	8.3					
26	7.39	33.19	25.96	80.60	8.3					
27	7.37	33.19	25.97	81.00	8.3					
28	7.38	33.20	25.98	80.80	8.3					
29	7.41	33.21	25.99	80.60	8.3					
30	7.41	33.22	25.98	80.50	8.3					
31	7.39	33.22	25.99	80.60	8.3					
32	7.39	33.23	25.99	80.50	8.3					
33	7.40	33.24	26.00	80.60	8.3					
34	7.39	33.24	26.00	80.50	8.3					
35	7.36	33.26	26.02	80.50	8.3					
36	7.38	33.25	26.02	80.00	8.3					
37	7.38	33.26	26.02	80.20	8.3					
38	7.39	33.27	26.02	80.20	8.3					
39	7.41	33.27	26.02	80.50	8.2					
40	7.41	33.28	26.03	80.50	8.1	6.89	.10	.00	.00	.23
41	7.40	33.28	26.04	80.60	8.1					
42	7.41	33.28	26.02	80.50	8.1					
43	7.40	33.28	26.04	80.50	8.1					
44	7.40	33.28	26.04	80.50	8.1					
45	7.40	33.28	26.03	80.60	8.1					
46	7.38	33.30	26.05	80.50	8.1					
47	7.37	33.31	26.06	81.80	8.1					
48	7.38	33.35	26.12	82.30	8.1					
49	7.49	33.40	26.13	82.20	8.1					
50	7.53	33.47	26.16	82.00	8.1					
60	7.53	33.48	26.17	82.40	8.1					
64	7.53	33.48	26.17	82.50	8.1	5.92	.04	.00	3.35	.42

KELEZ CRUISE XWCC-8 STATION 37 APR. 14, 1976

TRANSMISSIVITY (0/0)

X 50 55 60 65 70 75 80 85 90 95

SIGMA-T

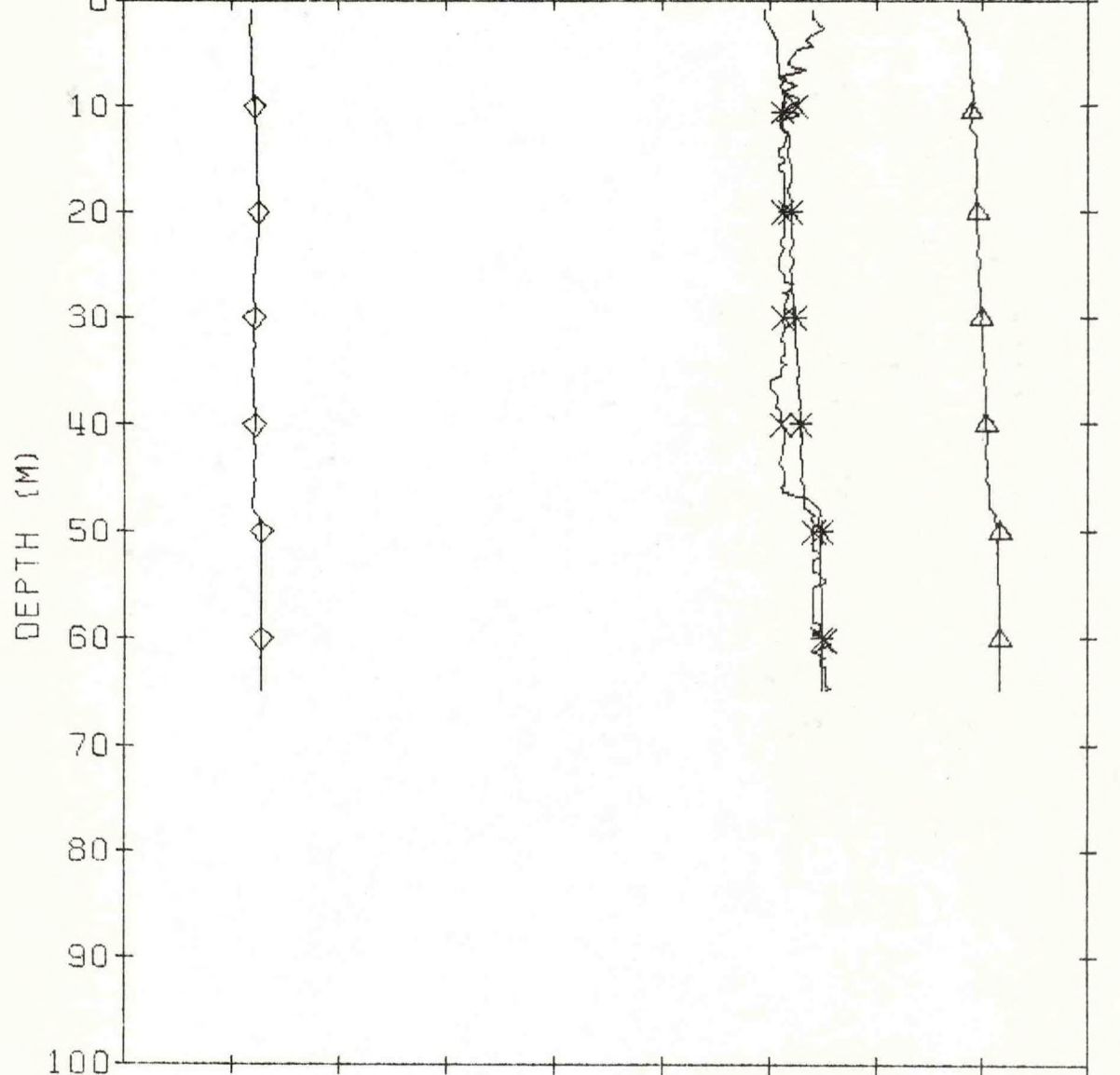
△ 18 19 20 21 22 23 24 25 26 27

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-08 STA. 38 LAT 39 39.1N; LONG 72 39.1W GMT 15.5 04/15/76
 DEPTH 76 AIR D/W 14.4/11.7 BARO 23.5 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 23/08 SEA DIR/HT 00/0 SWELL DIR/HT 00/0

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	8.43	33.22	25.84	80.60	8.1	7.31	.06	.00	2.78	.28
2	8.43	33.22	25.84	80.60	8.1					
3	8.39	33.29	25.92	80.30	8.1					
4	8.33	33.32	25.93	80.60	8.1					
5	8.25	33.32	25.94	80.50	8.1					
6	8.17	33.32	25.95	80.30	8.1					
7	8.07	33.30	25.94	80.10	8.3					
8	7.99	33.27	25.94	80.50	8.3					
9	7.96	33.27	25.95	80.00	8.3					
10	7.94	33.29	25.97	80.30	8.3	3.39	.04	.00	1.62	.18
11	7.93	33.31	25.99	80.60	8.3					
12	7.92	33.32	25.99	80.10	8.3					
13	7.91	33.31	25.99	80.60	8.1					
14	7.86	33.32	26.00	80.10	8.1					
15	7.84	33.32	26.00	80.00	8.1					
16	7.82	33.33	26.00	80.00	8.1					
17	7.81	33.32	26.01	80.20	8.1					
18	7.81	33.32	26.01	80.20	8.1					
19	7.77	33.33	26.02	80.30	8.1					
20	7.73	33.33	26.03	80.40	8.1	7.28	.08	.45	25.87	.32
21	7.72	33.33	26.03	80.50	8.1					
22	7.70	33.32	26.03	80.70	8.1					
23	7.66	33.33	26.04	81.00	8.1					
24	7.65	33.33	26.04	82.20	8.1					
25	7.66	33.32	26.03	82.10	8.1					
26	7.66	33.33	26.04	82.00	8.1					
27	7.66	33.34	26.04	82.30	8.1					
28	7.65	33.33	26.03	82.50	8.1					
29	7.66	33.34	26.04	82.80	8.1					
30	7.66	33.34	26.04	82.80	8.1	7.04	.01	.97	21.67	.32
31	7.66	33.33	26.04	82.50	8.1					
32	7.65	33.34	26.04	82.30	8.1					
33	7.64	33.34	26.05	82.30	8.1					
34	7.64	33.34	26.04	82.30	8.1					
35	7.63	33.34	26.05	82.00	8.1					
36	7.63	33.35	26.06	82.10	8.1					
37	7.62	33.35	26.05	82.10	8.1					
38	7.62	33.33	26.04	82.20	8.1					
39	7.61	33.35	26.05	82.20	8.1					
40	7.61	33.35	26.05	82.10	8.1					
41	7.62	33.34	26.05	82.20	8.1					
42	7.61	33.34	26.05	82.30	8.1					
43	7.60	33.35	26.06	82.20	8.1					
44	7.62	33.34	26.04	82.20	8.1					
45	7.61	33.34	26.05	82.40	8.1					
46	7.61	33.36	26.06	82.40	8.1					
47	7.66	33.30	25.99	82.40	8.1					
48	7.71	33.29	26.00	82.60	8.1					
49	7.76	33.31	26.01	82.60	8.1					
50	7.81	33.34	26.03	82.40	8.1	7.00	.07	1.06	23.11	.32
60	8.79	33.86	26.28	83.60	8.1					
70	8.85	33.92	26.32	82.70	8.1					
71	8.85	33.92	26.32	82.80	8.1					

KELEZ CRUISE XWCC-8 STATION 38 APR. 15, 1976

TRANSMISSIVITY (0/0)

X 50 55 60 65 70 75 80 85 90 95

SIGMA-T

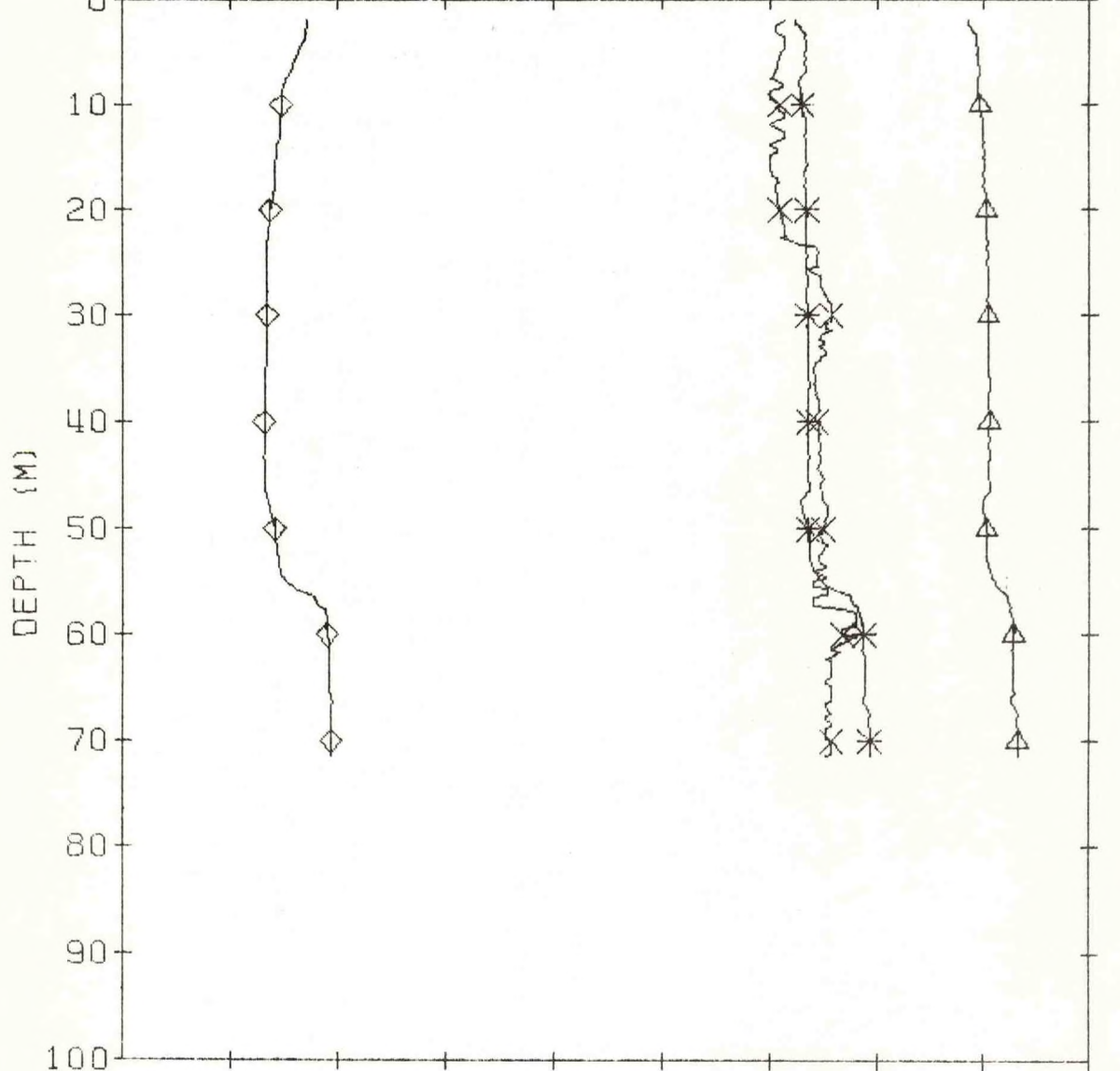
△ 18 19 20 21 22 23 24 25 26 27

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-08 STA. 39 LAT 39 32.2N; LONG 72 25.9W GMT 13.0 04/15/76
 DEPTH 275 AIR D/W 10.0/08.3 BARO 23.0 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 21/09 SEA DIR/HT 01/0 SWELL DIR/HT 21/0

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	7.78	33.13	25.86	80.80	8.1	7.30	.06	.51	2.48	.29
2	7.75	33.13	25.87	81.70	8.1					
3	7.77	33.13	25.86	82.10	8.2					
4	7.77	33.14	25.87	81.80	8.2					
5	7.76	33.13	25.86	81.70	8.2					
6	7.73	33.11	25.85	81.60	8.2					
7	7.72	33.12	25.86	81.10	8.2					
8	7.69	33.15	25.89	81.40	8.2					
9	7.68	33.16	25.90	81.70	8.2					
10	7.68	33.16	25.90	81.70	8.2	7.45	.05	.17	1.81	.23
11	7.71	33.16	25.89	80.80	8.2					
12	7.68	33.15	25.89	80.90	8.2					
13	7.64	33.16	25.90	80.60	8.2					
14	7.55	33.15	25.91	80.70	8.2					
15	7.53	33.16	25.92	80.90	8.2					
16	7.55	33.16	25.92	81.30	8.2					
17	7.55	33.16	25.92	81.50	8.2					
18	7.56	33.18	25.93	81.60	8.2					
19	7.58	33.19	25.93	82.00	8.2					
20	7.59	33.18	25.93	82.20	8.2	7.31	.05	.12	1.34	.22
21	7.58	33.20	25.95	82.30	8.2					
22	7.52	33.17	25.93	82.30	8.2					
23	7.52	33.18	25.94	82.60	8.2					
24	7.52	33.19	25.94	82.40	8.2					
25	7.52	33.20	25.96	82.50	8.2					
26	7.52	33.23	25.98	83.00	8.2					
27	7.53	33.24	25.98	83.30	8.2					
28	7.54	33.25	25.99	82.90	8.2					
29	7.58	33.26	25.99	82.90	8.2					
30	7.58	33.26	25.99	83.10	8.2	6.96	.14	1.94	3.35	.41
31	7.59	33.26	25.98	83.00	8.1					
32	7.62	33.27	26.00	83.20	8.1					
33	7.65	33.30	26.01	83.30	8.1					
34	7.67	33.29	26.01	83.00	8.2					
35	7.70	33.30	26.01	83.10	8.1					
36	7.72	33.31	26.02	82.60	8.2					
37	7.72	33.32	26.02	83.10	8.1					
38	7.72	33.32	26.01	83.40	8.1					
39	7.75	33.32	26.02	83.40	8.1					
40	7.77	33.33	26.02	83.30	8.1					
41	7.81	33.35	26.03	82.10	8.1					
42	7.82	33.36	26.04	82.30	8.1					
43	7.82	33.37	26.04	82.60	8.1					
44	7.84	33.37	26.04	82.70	8.1					
45	7.86	33.38	26.04	83.00	8.1					
46	7.87	33.38	26.04	82.90	8.1					
47	7.88	33.38	26.04	82.50	8.1					
48	7.89	33.38	26.05	82.70	8.1					
49	7.94	33.40	26.05	83.10	8.1					
50	7.98	33.42	26.07	82.90	8.1	6.90	.11	2.07	1.97	.35
60	8.64	33.65	26.14	84.20	8.1					
70	10.49	34.67	26.62	84.00	8.1					
80	10.75	34.78	26.67	84.00	8.1					
90	11.46	34.96	26.68	84.20	8.1					
100	11.74	35.07	26.71	84.20	8.1	5.50	.06	7.31	3.50	.45

KELEZ CRUISE XWCC-8 STATION 39 APR. 15, 1976

TRANSMISSIVITY (0/0)

X 50 55 60 65 70 75 80 85 90 95

SIGMA-T

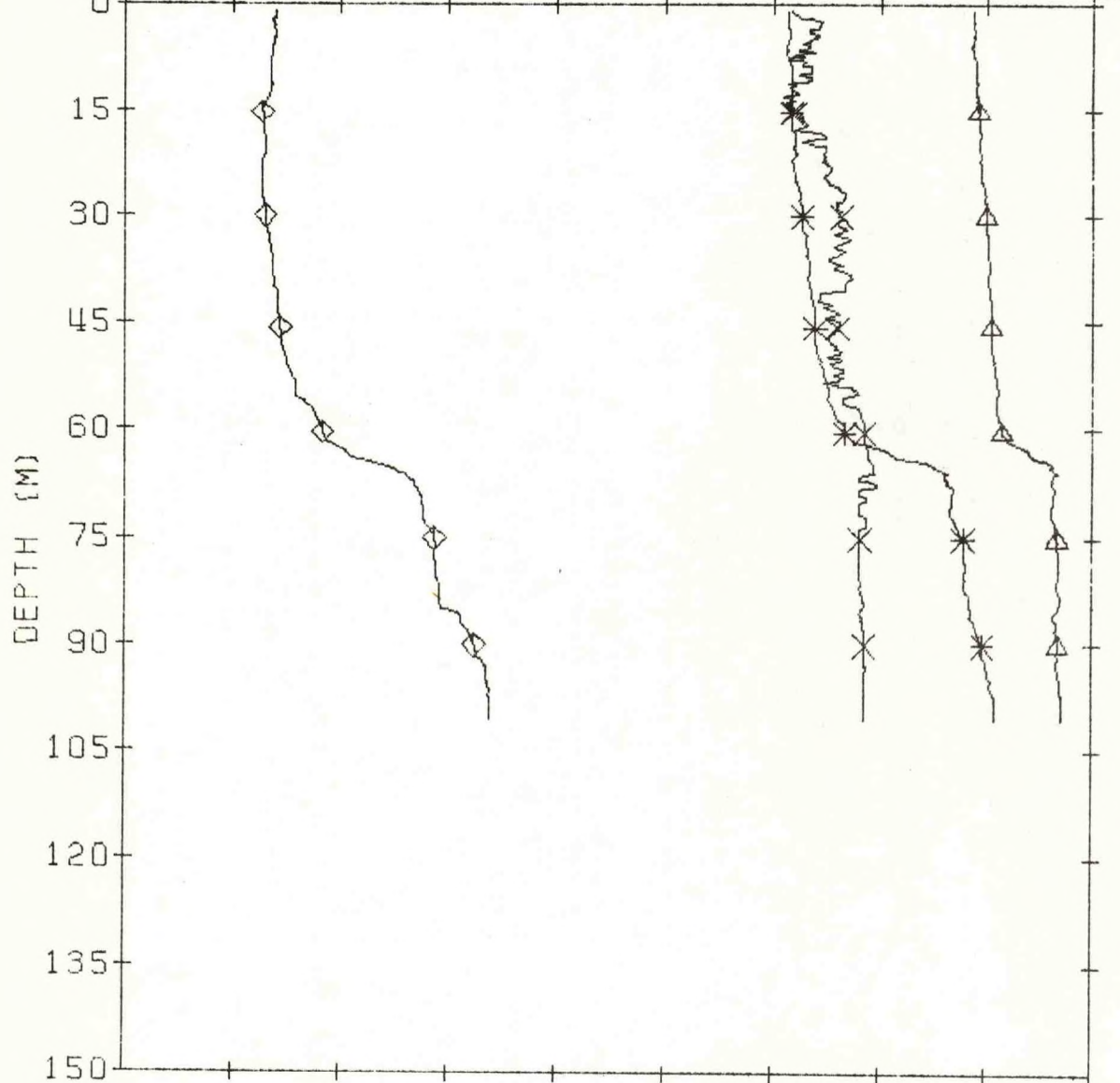
△ 18 19 20 21 22 23 24 25 26 27

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-08 STA. 64 LAT 40 11.9N; LONG 72 20.4W GMT 06.9 04/15/76
 DEPTH 66 AIR D/W 08.9/07.2 BARO 20.0 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 24/14 SEA DIR/HT 01/0 SWELL DIR/HT 21/1

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	7.15	32.22	25.24	82.60	8.1	7.28	.02	.00	.00	.50
2	7.15	32.23	25.25	82.30	8.1					
3	7.16	32.24	25.24	82.40	8.1					
4	7.16	32.23	25.24	82.30	8.1					
5	7.05	32.27	25.32	82.20	8.1					
6	6.93	32.33	25.34	82.30	8.1					
7	6.85	32.35	25.37	82.10	8.1					
8	6.84	32.38	25.45	82.50	8.1					
9	6.82	32.51	25.55	82.20	8.1					
10	6.82	32.59	25.60	81.20	8.1	7.37	.06	.00	.00	.29
11	6.82	32.63	25.62	80.50	8.1					
12	6.82	32.65	25.62	80.60	8.1					
13	6.87	32.70	25.66	80.60	8.1					
14	6.89	32.75	25.69	80.50	8.1					
15	6.92	32.79	25.73	80.50	8.1					
16	6.97	32.89	25.79	80.50	8.1					
17	6.98	32.89	25.79	80.60	8.1					
18	7.01	32.92	25.79	80.40	8.1					
19	7.04	32.94	25.85	80.60	8.1					
20	7.05	32.99	25.86	80.50	8.1	7.22	.12	.39	.00	.29
21	7.06	33.02	25.87	80.60	8.1					
22	7.06	33.02	25.87	80.40	8.1					
23	7.06	33.02	25.88	80.70	8.1					
24	7.07	33.02	25.88	81.00	8.1					
25	7.08	33.03	25.88	81.60	8.1					
26	7.08	33.05	25.89	81.60	8.1					
27	7.08	33.05	25.89	82.10	8.1					
28	7.08	33.06	25.91	82.20	8.1					
29	7.08	33.07	25.91	82.30	8.1					
30	7.07	33.06	25.91	82.40	8.1					
31	7.06	33.07	25.92	82.30	8.1					
32	7.03	33.08	25.93	82.00	8.1					
33	7.01	33.07	25.92	82.10	8.1					
34	6.98	33.09	25.94	82.10	8.1					
35	6.98	33.09	25.94	82.10	8.1					
36	6.98	33.09	25.94	82.10	8.1					
37	6.96	33.05	25.91	82.30	8.1					
38	6.96	33.05	25.91	82.30	8.1					
39	6.96	33.06	25.92	82.30	8.1					
40	6.96	33.06	25.92	82.30	8.1	7.25	.09	1.95	.07	.44
41	6.96	33.05	25.91	82.20	8.1					
42	6.96	33.05	25.91	82.30	8.1					
43	6.96	33.05	25.91	82.40	8.1					
44	6.96	33.05	25.91	82.40	8.1					
45	6.96	33.06	25.93	82.60	8.1					
46	7.00	33.09	25.94	83.30	8.1					
47	7.03	33.10	25.94	82.50	8.1					
48	7.05	33.10	25.94	83.10	8.1					
49	7.07	33.11	25.94	82.60	8.1					
50	7.08	33.11	25.94	82.70	8.1					
60	7.97	33.63	26.22	82.50	8.1	6.03	.19	2.19	1.87	.53

KELEZ CRUISE XWCC-8 STATION 64 APR. 15, 1976

TRANSMISSIVITY (0/0)

X 50 55 60 65 70 75 80 85 90 95

SIGMA-T

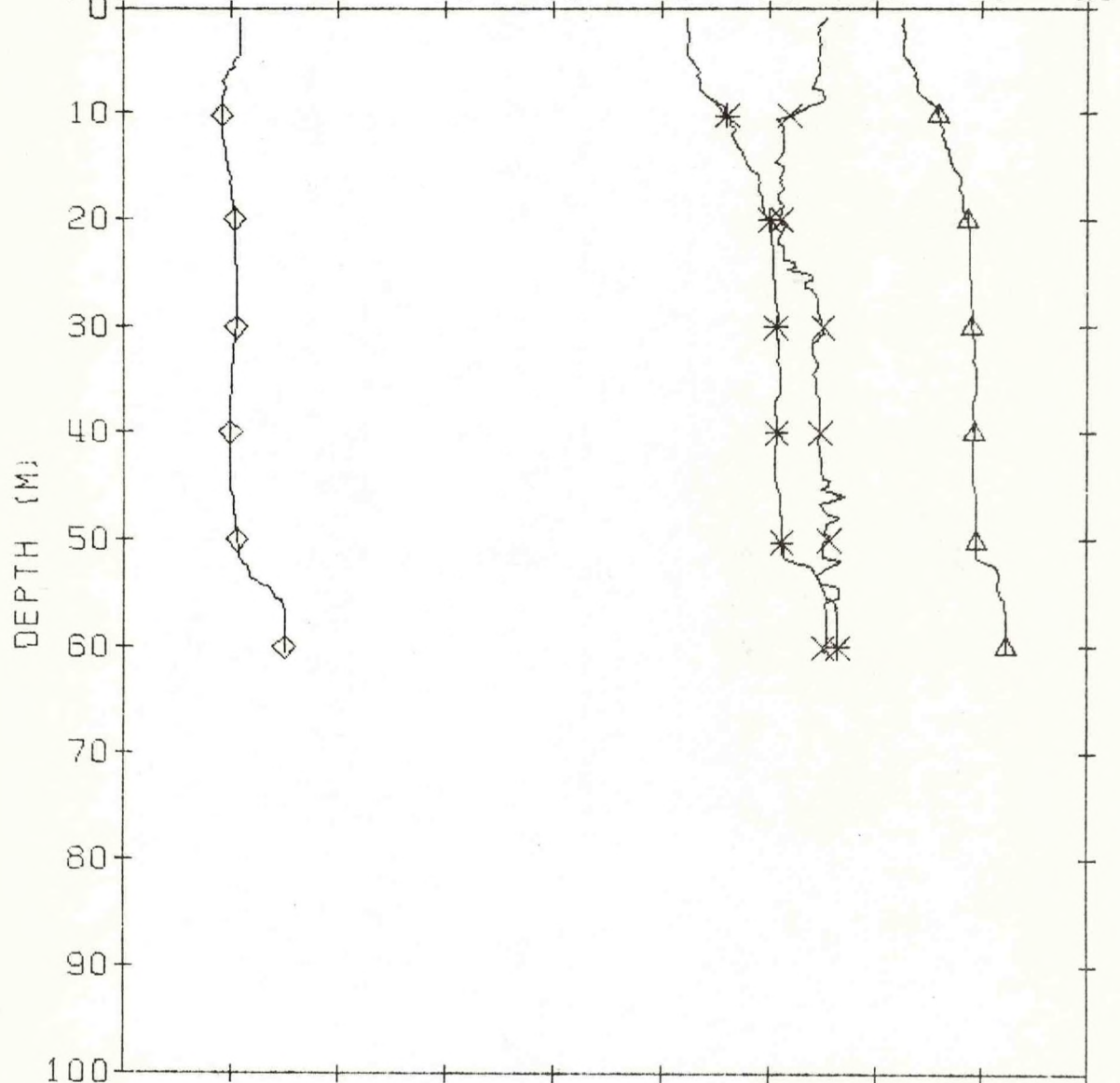
△ 18 19 20 21 22 23 24 25 26 27

SALINITY (0/00)

* 27 28 29 30 31 32 33 34 35 36

TEMPERATURE (C)

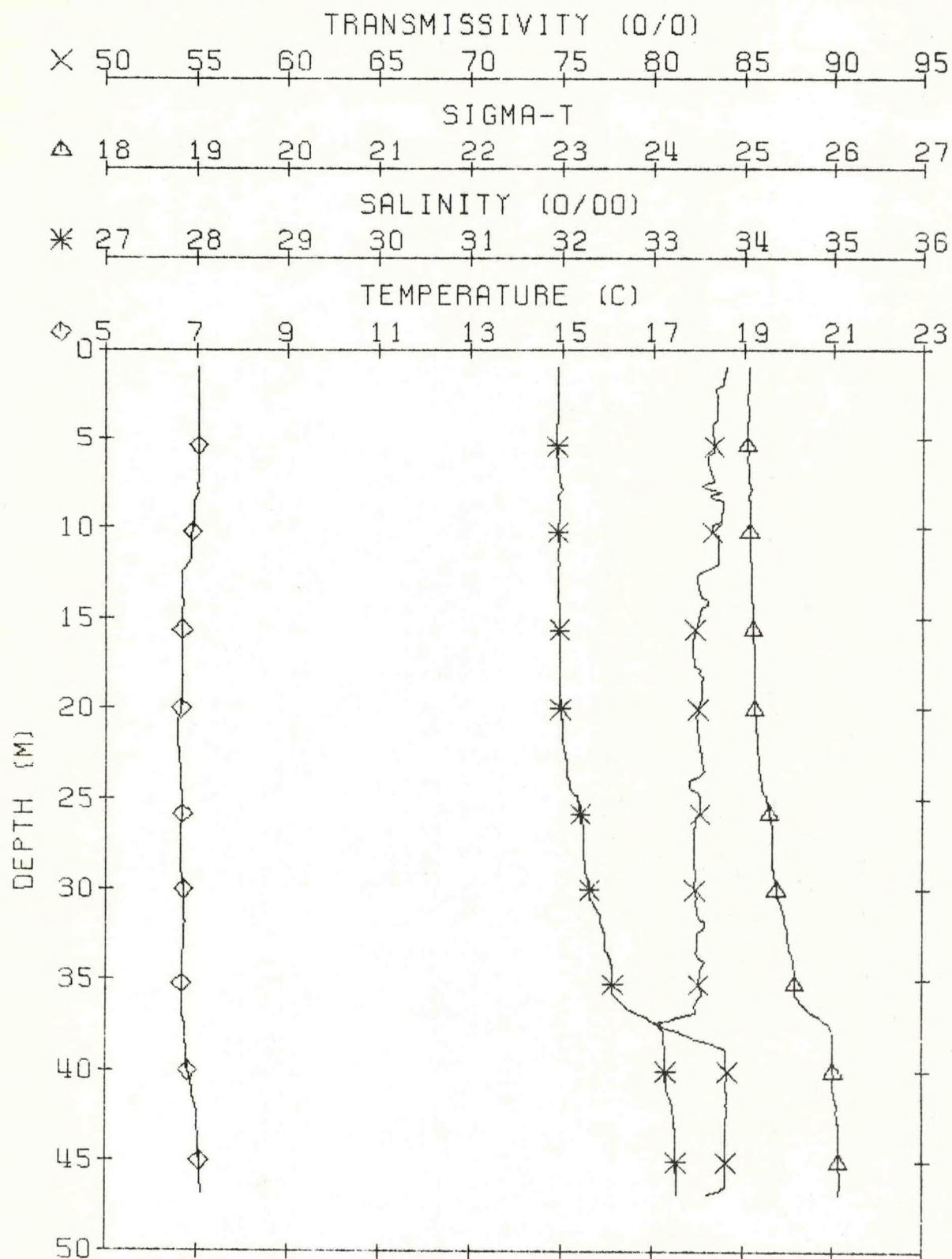
◇ 5 7 9 11 13 15 17 19 21 23



XWCC-08 STA. 65 LAT 40 21.3N; LONG 72 27.7W GMT 04.9 04/15/76
 DEPTH 51 AIR D/W 09.4/07.8 BARO 20.0 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 25/12 SEA DIR/HT 00/0 SWELL DIR/HT 20/1

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	7.01	31.94	25.03	84.00	8.3	7.44	.06	.00	.00	.27
2	7.01	31.94	25.04	83.60	8.2					
3	7.03	31.94	25.03	83.50	8.2					
4	7.01	31.93	25.02	83.30	8.3					
5	7.02	31.93	25.03	83.30	8.2					
6	7.01	31.94	25.02	83.00	8.2					
7	7.01	31.96	25.05	83.10	8.2					
8	7.00	31.97	25.04	83.40	8.2					
9	6.92	31.95	25.06	83.70	8.2					
10	6.89	31.94	25.05	83.20	8.3	7.49	.08	.00	.00	.20
11	6.84	31.95	25.07	83.50	8.3					
12	6.77	31.95	25.08	83.40	8.3					
13	6.66	31.94	25.08	82.40	8.3					
14	6.67	31.95	25.09	82.90	8.3					
15	6.66	31.96	25.08	82.50	8.3					
16	6.65	31.95	25.10	82.20	8.3					
17	6.64	31.97	25.10	82.20	8.3					
18	6.64	31.97	25.10	82.50	8.3					
19	6.64	31.97	25.10	82.60	8.3					
20	6.63	31.97	25.11	82.40	8.3	7.59	.05	.46	1.10	.28
21	6.56	31.99	25.14	82.40	8.3					
22	6.56	32.01	25.15	82.50	8.3					
23	6.60	32.04	25.16	82.70	8.3					
24	6.62	32.06	25.19	82.10	8.3					
25	6.66	32.16	25.29	82.50	8.3					
26	6.65	32.20	25.29	82.30	8.3					
27	6.61	32.22	25.31	82.20	8.3					
28	6.61	32.23	25.31	82.20	8.3					
29	6.63	32.25	25.33	82.30	8.3					
30	6.68	32.29	25.35	82.30	8.1	7.29	.00	.00	.00	.31
31	6.67	32.36	25.44	82.40	8.1					
32	6.70	32.43	25.47	82.80	8.1					
33	6.68	32.46	25.49	82.40	8.1					
34	6.66	32.53	25.54	82.70	8.1					
35	6.64	32.54	25.56	82.50	8.1					
36	6.64	32.59	25.63	82.50	8.1					
37	6.65	32.88	25.89	81.60	8.1					
38	6.72	33.10	25.99	81.80	8.1					
39	6.75	33.12	25.99	84.00	8.1					
40	6.78	33.13	26.01	84.00	8.1					
41	6.87	33.15	26.00	84.00	8.1					
42	6.95	33.21	26.03	84.00	8.1					
43	6.98	33.23	26.05	84.00	8.1					
44	7.02	33.24	26.05	84.00	8.1					
45	7.04	33.25	26.06	84.00	8.1	6.04	.11	.64	1.40	.39
46	7.06	33.26	26.07	84.00	8.1					

KELEZ CRUISE XWCC-8 STATION 65 APR. 15, 1976



XWCC-08 STA. 66 LAT 40 30.3N; LONG 72 33.7W GMT 03.2 04/15/76
 DEPTH 43 AIR D/W 09.4/07.2 BARO 19.5 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 22/14 SEA DIR/HT 00/0 SWELL DIR/HT 20/1

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	7.10	31.99	25.06	84.20	8.3	7.39	.10	.00	.00	.20
2	7.10	31.99	25.06	84.20	8.3					
3	7.08	31.97	25.05	84.10	8.3					
4	7.08	31.96	25.04	84.00	8.3					
5	7.08	31.97	25.05	84.20	8.3					
6	7.08	31.96	25.04	84.20	8.3					
7	7.08	31.97	25.05	84.10	8.3					
8	7.08	31.98	25.05	84.20	8.3					
9	7.08	31.97	25.04	84.10	8.3					
10	7.08	31.97	25.04	84.10	8.3	7.42	.09	.00	.00	.19
11	7.08	31.97	25.05	84.20	8.3					
12	7.04	31.96	25.04	84.10	8.3					
13	7.03	31.97	25.06	84.10	8.3					
14	6.94	31.96	25.06	84.10	8.3					
15	6.86	31.96	25.06	83.70	8.3					
16	6.84	31.95	25.07	83.50	8.3					
17	6.76	31.96	25.07	83.40	8.3					
18	6.73	31.94	25.07	83.10	8.3					
19	6.72	31.94	25.07	82.40	8.3					
20	6.67	31.96	25.09	82.50	8.3	7.84	.09	.00	.00	.22
21	6.66	31.97	25.11	82.60	8.3					
22	6.65	31.98	25.12	82.30	8.3					
23	6.66	31.98	25.11	82.10	8.3					
24	6.64	32.01	25.16	82.20	8.3					
25	6.60	32.08	25.20	82.60	8.3					
26	6.59	32.11	25.22	82.20	8.3					
27	6.59	32.12	25.23	82.60	8.3					
28	6.61	32.13	25.25	82.50	8.3					
29	6.61	32.17	25.27	82.90	8.3					
30	6.62	32.19	25.28	82.70	8.3	7.21	.12	.00	.00	.22
31	6.62	32.21	25.30	82.50	8.3					
32	6.63	32.28	25.38	81.00	8.3					
33	6.55	32.63	25.76	74.30	8.2					
34	6.50	32.88	25.85	77.40	8.1					
35	6.49	32.90	25.86	82.30	8.1					
36	6.49	32.90	25.85	82.30	8.1					
37	6.50	32.90	25.85	82.50	8.1					
38	6.49	32.90	25.86	82.40	8.1					
39	6.49	32.90	25.86	82.50	8.1					
40	6.50	32.90	25.85	82.70	8.2	6.18	.09	.00	1.13	.33

KELEZ CRUISE XWCC-8 STATION 66 APR. 15, 1976

TRANSMISSIVITY (0/0)

X 50 55 60 65 70 75 80 85 90 95

SIGMA-T

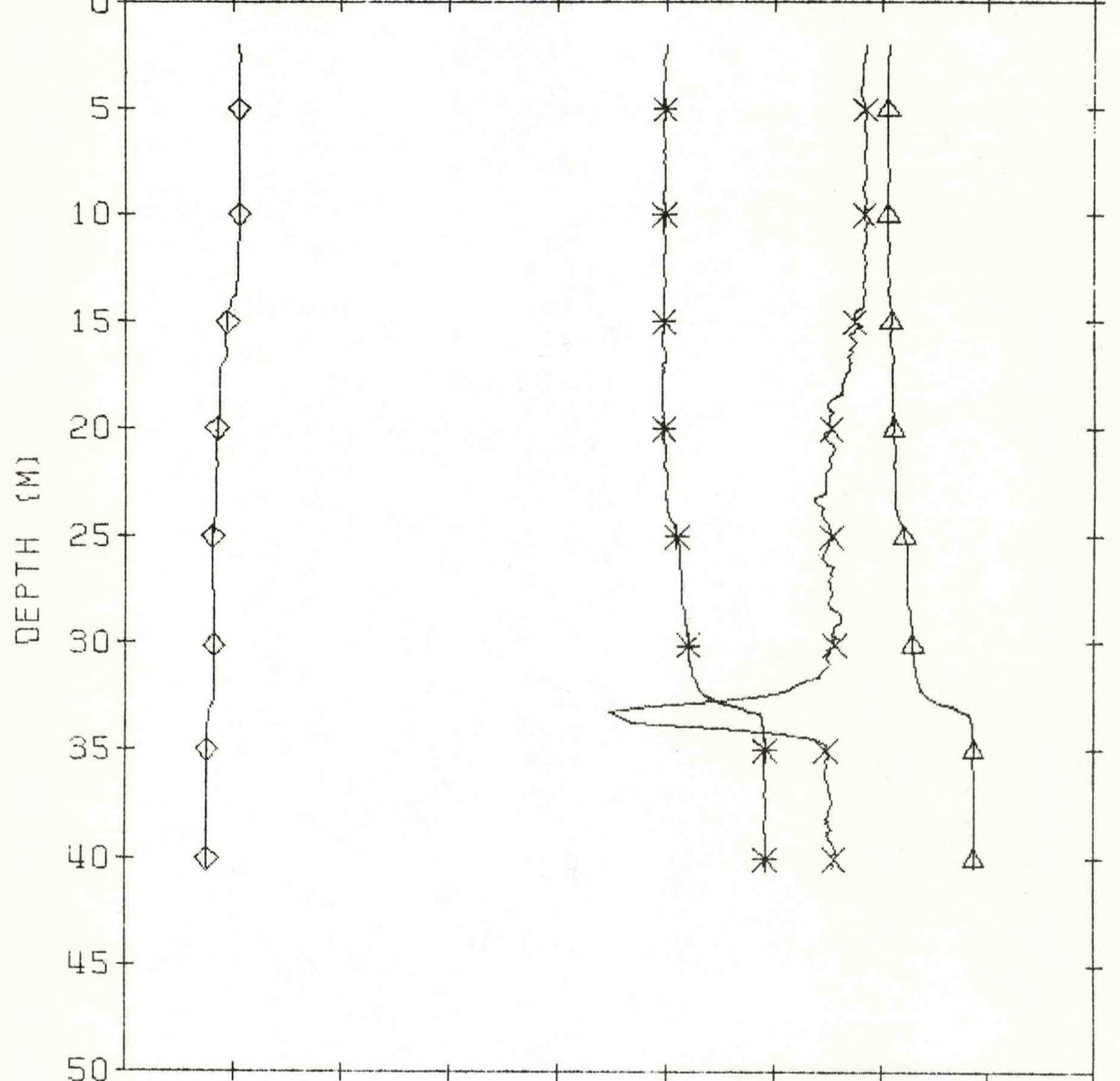
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SALINITY (0/00)

* 27 28 29 30 31 32 33 34 35 36

TEMPERATURE (C)

◇ 5 7 9 11 13 15 17 19 21 23



XWCC-08 STA. 67 LAT 40 38.2N; LONG 72 39.7W GMT 01.3 04/15/76
 DEPTH 36 AIR D/W 09.4/07.2 BARO 18.5 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 21/12 SEA DIR/HT 00/0 SWELL DIR/HT 00/1

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	7.22	31.52	24.67	84.20	8.3	7.37	.02	.00	.00	.27
2	7.22	31.56	24.71	84.40	8.3					
3	7.22	31.57	24.71	84.40	8.3					
4	7.22	31.56	24.70	84.30	8.3					
5	7.22	31.55	24.70	84.30	8.3					
6	7.21	31.56	24.71	84.40	8.3					
7	7.12	31.56	24.74	84.40	8.3					
8	6.72	31.56	24.78	84.40	8.3					
9	6.69	31.55	24.77	84.40	8.3					
10	6.58	31.55	24.79	84.30	8.3	7.46	.03	.00	.00	.28
11	6.48	31.60	24.86	84.10	8.3					
12	6.46	31.66	24.88	84.20	8.3					
13	6.46	31.66	24.88	84.00	8.3					
14	6.46	31.68	24.90	84.10	8.3					
15	6.48	31.66	24.88	84.30	8.3					
16	6.48	31.68	24.90	84.10	8.3					
17	6.50	31.68	24.90	84.70	8.3					
18	6.49	31.69	24.91	84.50	8.3					
19	6.47	31.70	24.91	84.30	8.3					
20	6.44	31.71	24.93	83.70	8.3	7.57	.03	.00	.00	.28
21	6.48	31.86	25.06	84.20	8.3					
22	6.46	31.99	25.20	84.20	8.3					
23	6.48	32.08	25.21	84.20	8.3					
24	6.51	32.11	25.24	84.40	8.3					
25	6.52	32.15	25.27	84.40	8.3					
26	6.54	32.21	25.32	84.60	8.3					
27	6.52	32.27	25.36	84.20	8.3					
28	6.34	32.55	25.69	80.00	8.1					
29	6.29	32.72	25.74	81.50	8.1					
30	6.28	32.72	25.74	83.20	8.1	7.34	.03	.00	4.63	.52
31	6.28	32.72	25.75	83.60	8.1					
32	6.27	32.73	25.75	83.70	8.1					
33	6.27	32.73	25.74	83.80	8.1					
34	6.27	32.74	25.75	84.10	8.1					

KELEZ CRUISE XWCC-8 STATION 67 APR. 15, 1976

TRANSMISSIVITY (0/0)

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SIGMA-T

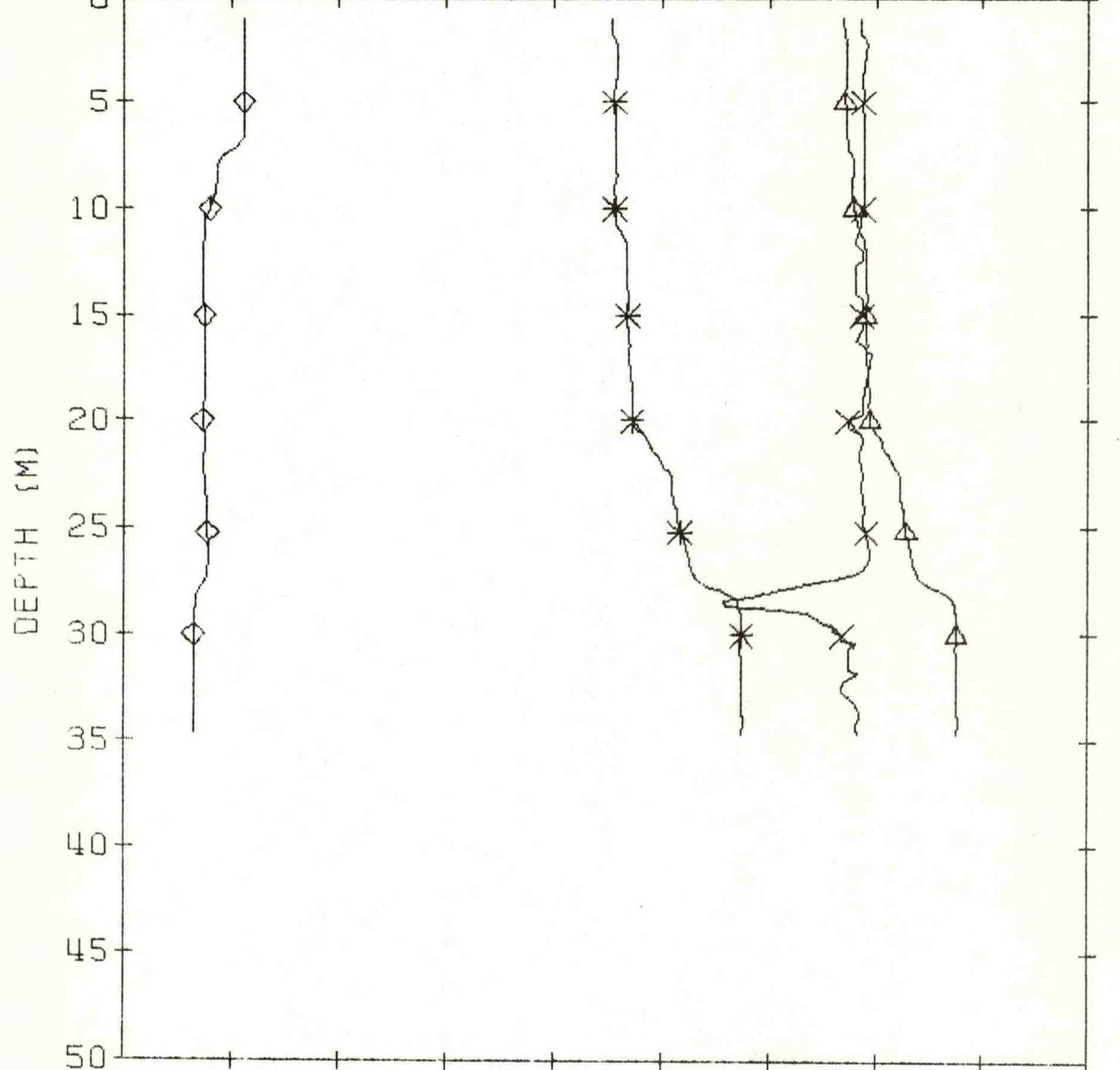
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SALINITY (0/00)

* 27 28 29 30 31 32 33 34 35 36

TEMPERATURE (C)

◇ 5 7 9 11 13 15 17 19 21 23



XWCC-08 STA. 68 LAT 40 19.3N; LONG 72 46.2W GMT 19.1 04/14/76
 DEPTH 48 AIR D/W 13.3/ . BARO 18.0 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 25/08 SEA DIR/HT 00/0 SWELL DIR/HT 22/1

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	8.07	32.58	25.39	84.40	8.3	7.60	.02	.03	.00	.20
2	8.06	32.58	25.39	84.40	8.3					
3	8.07	32.55	25.36	85.60	8.3					
4	7.99	32.57	25.41	85.90	8.3					
5	7.48	32.55	25.47	84.20	8.3					
6	7.17	32.57	25.53	84.50	8.3					
7	7.10	32.59	25.54	84.40	8.3					
8	7.08	32.60	25.54	84.20	8.3					
9	7.06	32.61	25.56	84.10	8.3					
10	7.06	32.61	25.54	84.20	8.3	7.55	.12	.00	.00	.21
11	7.06	32.60	25.54	84.20	8.3					
12	7.04	32.62	25.56	84.00	8.3					
13	7.04	32.62	25.56	83.90	8.3					
14	7.04	32.62	25.56	83.70	8.3					
15	7.04	32.62	25.56	84.10	8.3					
16	7.04	32.62	25.56	83.70	8.3					
17	7.04	32.62	25.57	83.20	8.3					
18	7.04	32.63	25.57	83.30	8.3					
19	7.04	32.62	25.57	82.90	8.3					
20	7.04	32.63	25.58	82.40	8.3	7.55	.13	.00	.00	.15
21	7.03	32.63	25.57	82.30	8.3					
22	7.02	32.63	25.58	82.40	8.3					
23	6.99	32.63	25.58	82.40	8.3					
24	6.97	32.64	25.59	82.50	8.3					
25	6.94	32.63	25.58	82.50	8.3					
26	6.95	32.64	25.59	82.40	8.3					
27	6.93	32.66	25.61	82.40	8.3					
28	6.94	32.66	25.61	82.20	8.3					
29	7.01	32.72	25.65	82.60	8.3					
30	7.03	32.74	25.67	82.50	8.3	7.23	.10	.00	.00	.14
31	7.09	32.77	25.68	82.40	8.3					
32	7.14	32.79	25.72	82.60	8.3					
33	7.17	32.88	25.77	82.50	8.3					
34	7.11	32.95	25.80	83.90	8.3					
35	7.12	32.96	25.86	82.50	8.3					
36	7.08	33.08	25.96	81.40	8.2					
37	7.00	33.17	26.01	79.00	8.1					
38	6.98	33.19	26.05	79.60	8.1					
39	6.98	33.24	26.05	84.20	8.1					
40	6.98	33.24	26.06	84.20	8.1					
41	6.97	33.24	26.06	84.20	8.1					
42	6.97	33.24	26.06	84.40	8.1					
43	6.97	33.25	26.07	84.50	8.1					
44	6.97	33.26	26.07	84.50	8.1					
45	6.97	33.26	26.07	84.50	8.1	6.25	.14	.00	.08	.24
46	6.96	33.25	26.07	84.40	8.1					

KELEZ CRUISE XWCC-8 STATION 68 APR. 14, 1976

TRANSMISSIVITY (0/0)

× 50 55 60 65 70 75 80 85 90 95

SIGMA-T

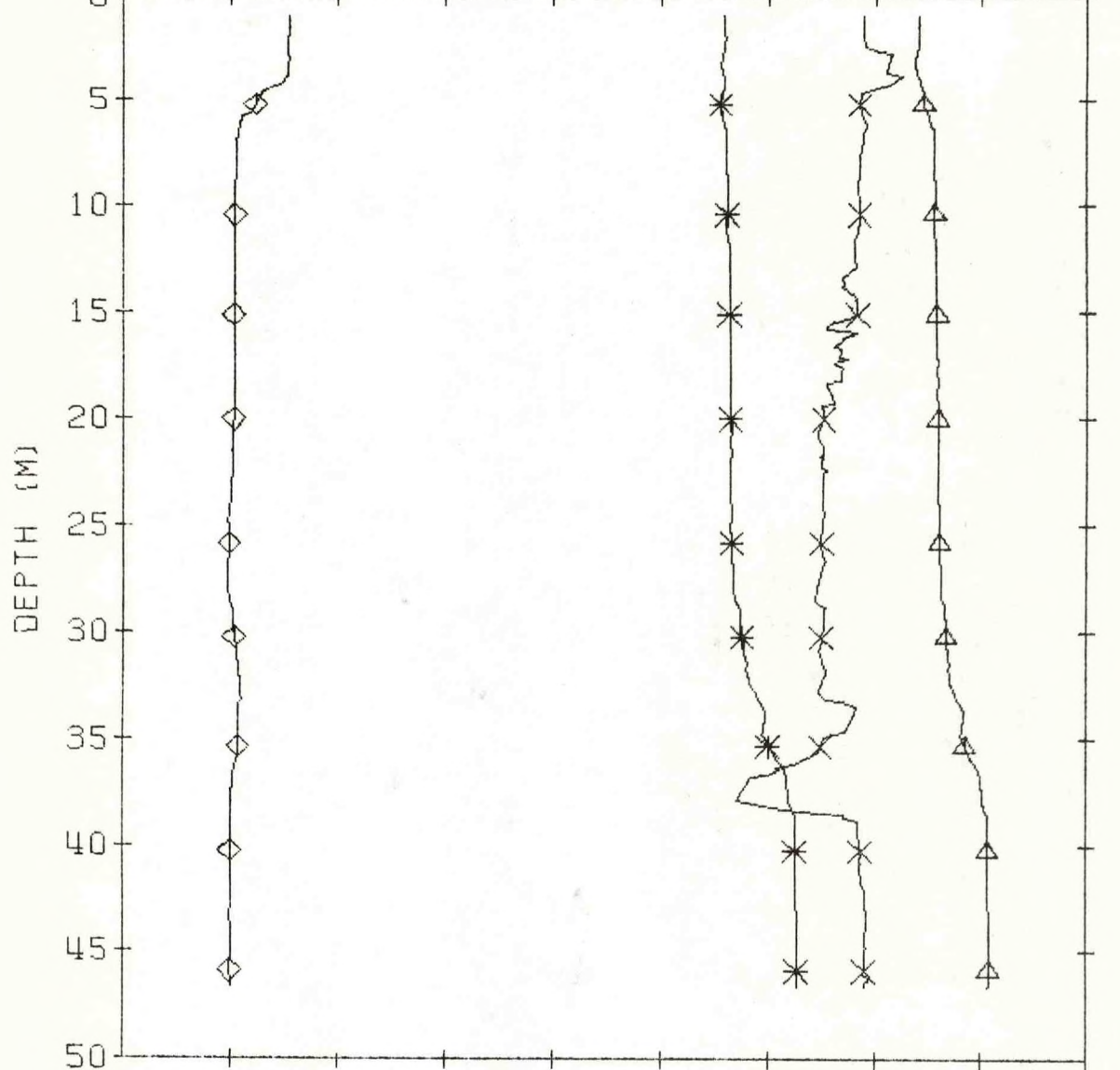
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SALINITY (0/00)

* 27 28 29 30 31 32 33 34 35 36

TEMPERATURE (C)

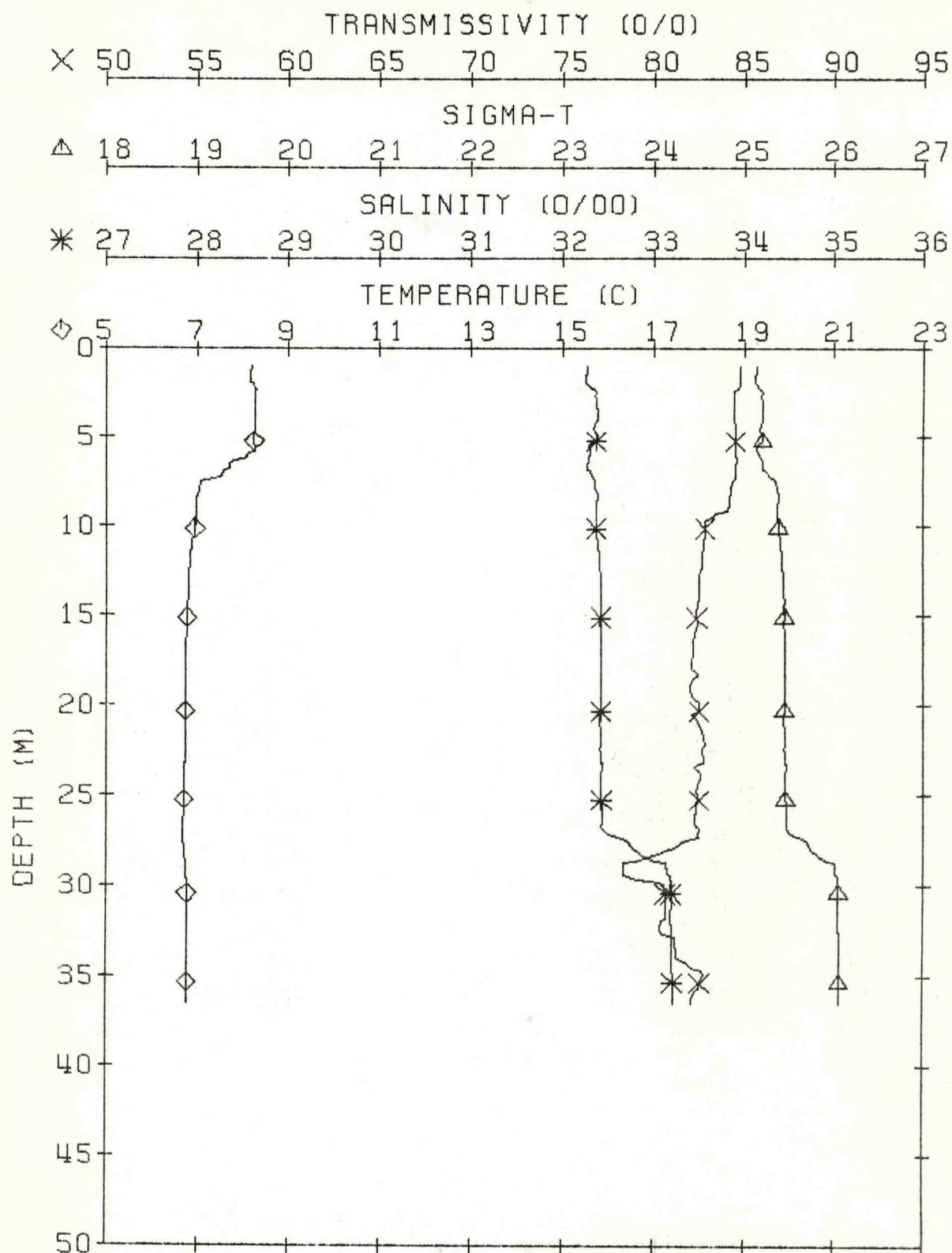
◇ 5 7 9 11 13 15 17 19 21 23



XWCC-08 STA. 69 LAT 40 25.0N; LONG 72 54.7W GMT 20.8 04/14/76
 DEPTH 41 AIR D/W 11.7/08.9 BARO 18.0 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 21/10 SEA DIR/HT 00/0 SWELL DIR/HT 21/0

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	8.17	32.26	25.12	84.70	8.3	7.32	.09	.00	.00	.20
2	8.20	32.27	25.14	84.70	8.3					
3	8.25	32.36	25.20	84.40	8.3					
4	8.25	32.37	25.19	84.40	8.3					
5	8.23	32.36	25.19	84.50	8.3					
6	8.09	32.28	25.18	84.50	8.3					
7	7.54	32.30	25.30	84.50	8.3					
8	7.00	32.36	25.38	84.20	8.3					
9	6.95	32.35	25.36	84.10	8.3					
10	6.93	32.36	25.38	82.80	8.3	7.63	.09	.23	.66	.14
11	6.85	32.38	25.41	82.70	8.3					
12	6.82	32.39	25.41	82.60	8.3					
13	6.78	32.40	25.43	82.50	8.3					
14	6.77	32.41	25.44	82.50	8.3					
15	6.75	32.41	25.44	82.30	8.3					
16	6.74	32.41	25.43	82.20	8.3					
17	6.73	32.41	25.44	82.10	8.3					
18	6.72	32.41	25.44	82.10	8.3					
19	6.72	32.40	25.43	82.00	8.3					
20	6.72	32.41	25.44	82.50	8.3	7.49	.14	.00	.00	.15
21	6.73	32.40	25.43	82.50	8.3					
22	6.72	32.40	25.43	82.80	8.3					
23	6.70	32.41	25.45	82.70	8.3					
24	6.69	32.41	25.45	82.50	8.3					
25	6.69	32.41	25.45	82.40	8.3					
26	6.67	32.42	25.46	82.20	8.3					
27	6.64	32.46	25.56	82.40	8.3					
28	6.68	32.78	25.76	80.80	8.1					
29	6.72	33.13	26.02	78.30	8.1					
30	6.74	33.18	26.05	80.60	8.1					
31	6.74	33.18	26.04	80.70	8.1					
32	6.74	33.18	26.05	80.40	8.1					
33	6.74	33.20	26.06	81.20	8.1					
34	6.74	33.20	26.06	81.40	8.1					
35	6.75	33.20	26.06	82.70	8.1	6.07	.14	.00	.37	.32
36	6.75	33.20	26.06	82.10	8.1					

KELEZ CRUISE XWCC-8 STATION 69 APR. 14, 1976



XWCC-08 STA. 70 LAT 40 32.2N; LONG 73 7.2W GMT 22.8 04/14/76
 DEPTH 28 AIR D/W 11.7/08.9 BARO 18.0 VIS 8 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 20/10 SEA DIR/HT 00/0 SWELL DIR/HT 20/0

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	6.84	31.76	24.91	80.00	8.3	7.48	.02	.00	.00	.36
2	6.80	31.74	24.92	80.30	8.3					
3	6.80	31.74	24.87	80.30	8.3					
4	6.87	31.72	24.89	79.80	8.3					
5	6.86	31.73	24.90	80.20	8.3					
6	6.83	31.77	24.92	79.50	8.3					
7	6.82	31.77	24.93	78.60	8.3					
8	6.82	31.78	24.93	78.10	8.3					
9	6.82	31.78	24.93	78.20	8.3					
10	6.82	31.76	24.90	78.40	8.3	7.56	.03	.00	.00	.35
11	6.74	31.71	24.94	79.00	8.3					
12	6.59	31.79	24.97	77.50	8.3					
13	6.58	31.80	24.99	78.50	8.3					
14	6.48	31.85	25.03	80.20	8.3					
15	6.42	31.85	25.04	80.30	8.3					
16	6.41	31.84	25.03	79.70	8.3					
17	6.42	31.84	25.03	80.00	8.3					
18	6.41	31.85	25.04	80.30	8.3					
19	6.41	31.86	25.06	80.30	8.3					
20	6.39	31.87	25.06	80.00	8.2	6.73	.09	.23	.00	.27
21	6.14	32.04	25.22	79.50	8.1					
22	6.11	32.07	25.26	80.30	8.1					
23	6.10	32.10	25.29	80.20	8.1					
24	6.09	32.12	25.29	80.20	8.1					
25	6.09	32.12	25.29	80.40	8.1	6.04	.03	.00	3.16	.63
26	6.09	32.12	25.29	80.30	8.1					

KELEZ CRUISE XWCC-8 STATION 70 APR. 14, 1976

TRANSMISSIVITY (0/0)

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SIGMA-T

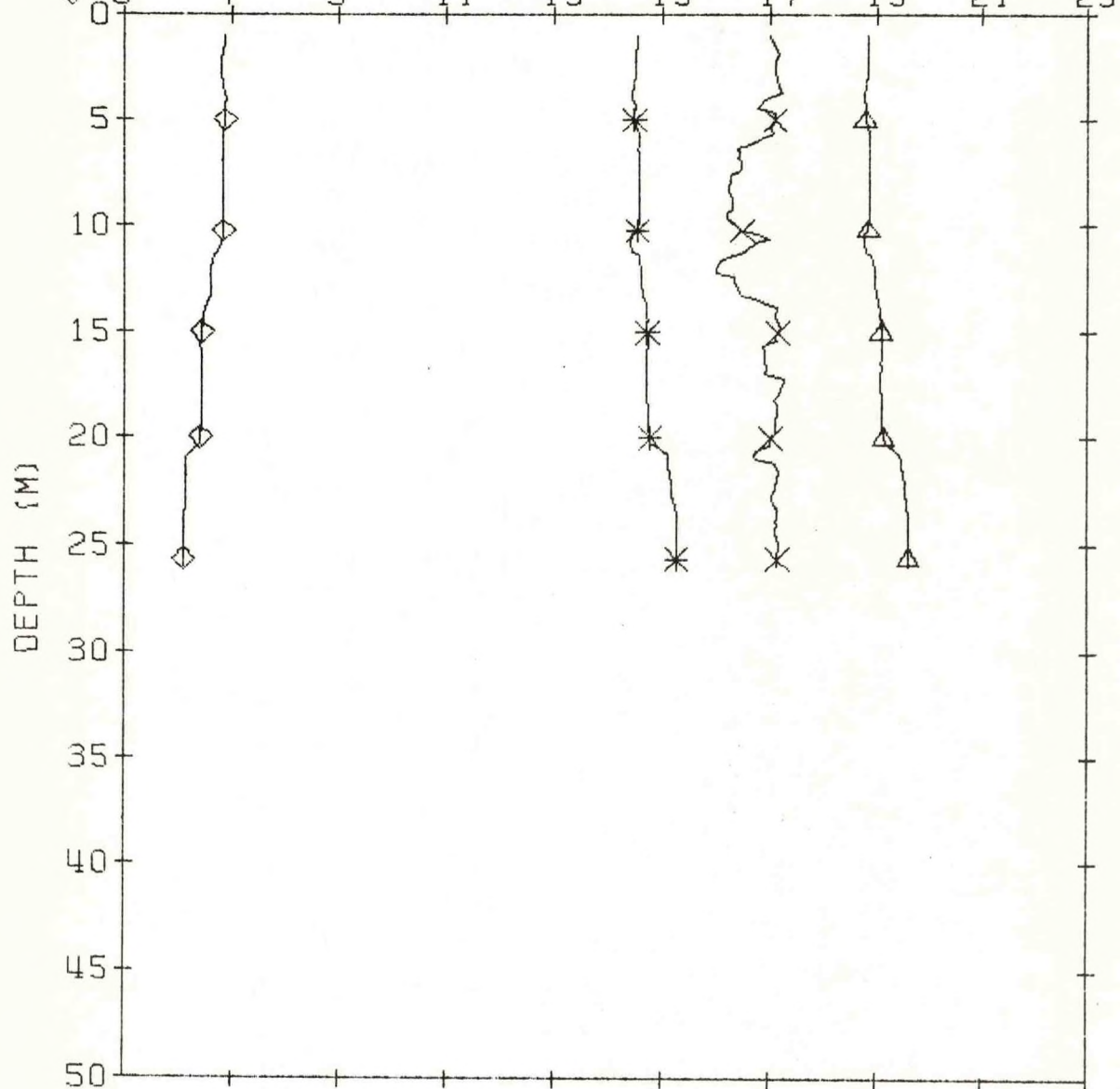
△ 18 19 20 21 22 23 24 25 26 27

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-08 STA. 77 LAT 40 10.3N; LONG 73 33.8W GMT 15.1 04/13/76
 DEPTH 36 AIR D/W 08.9/04.4 BARO 21.5 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 28/12 SEA DIR/HT 28/0 SWELL DIR/HT 28/2

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	6.76	31.58	24.78	81.00	8.3	7.17	.06	.13	.04	.24
2	6.76	31.58	24.78	81.00	8.3					
3	6.76	31.58	24.78	81.00	8.3					
4	6.75	31.59	24.79	80.50	8.3					
5	6.75	31.59	24.78	80.60	8.3					
6	6.76	31.58	24.79	80.60	8.3					
7	6.74	31.60	24.80	80.70	8.3					
8	6.73	31.59	24.80	80.70	8.3					
9	6.72	31.60	24.80	80.80	8.3					
10	6.71	31.61	24.82	80.60	8.3	7.35	.04	.13	.00	.29
11	6.70	31.61	24.82	80.30	8.3					
12	6.70	31.61	24.82	80.60	8.3					
13	6.70	31.61	24.81	80.70	8.3					
14	6.70	31.62	24.83	80.70	8.3					
15	6.70	31.64	24.83	80.40	8.3					
16	6.71	31.64	24.83	80.60	8.3					
17	6.71	31.67	24.86	80.20	8.3					
18	6.72	31.70	24.90	80.20	8.3					
19	6.73	31.73	24.91	80.60	8.3					
20	6.79	31.79	24.98	80.40	8.3					
21	6.87	31.92	25.05	80.30	8.3					
22	6.88	32.05	25.17	80.40	8.3					
23	6.88	32.16	25.24	80.00	8.3					
24	6.88	32.41	25.48	78.20	8.1					
25	6.88	32.54	25.53	78.30	8.1					
26	6.87	32.68	25.74	79.60	8.1					
27	6.88	33.00	25.88	80.20	8.1					
28	6.88	33.02	25.90	80.50	8.1					
29	6.85	33.05	25.94	81.10	8.1					
30	6.81	33.08	25.96	82.50	8.1	6.14	.01	.18	1.07	.54
31	6.83	33.11	25.98	82.20	8.1					
32	6.83	33.12	25.98	82.10	8.1					
33	6.83	33.12	25.99	82.30	8.1					
34	6.82	33.12	25.99	82.30	8.1	6.18	.02	.17	1.11	.51

KELEZ CRUISE XWCC-8 STATION 77 APR. 13, 1976

TRANSMISSIVITY (0/0)

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SIGMA-T

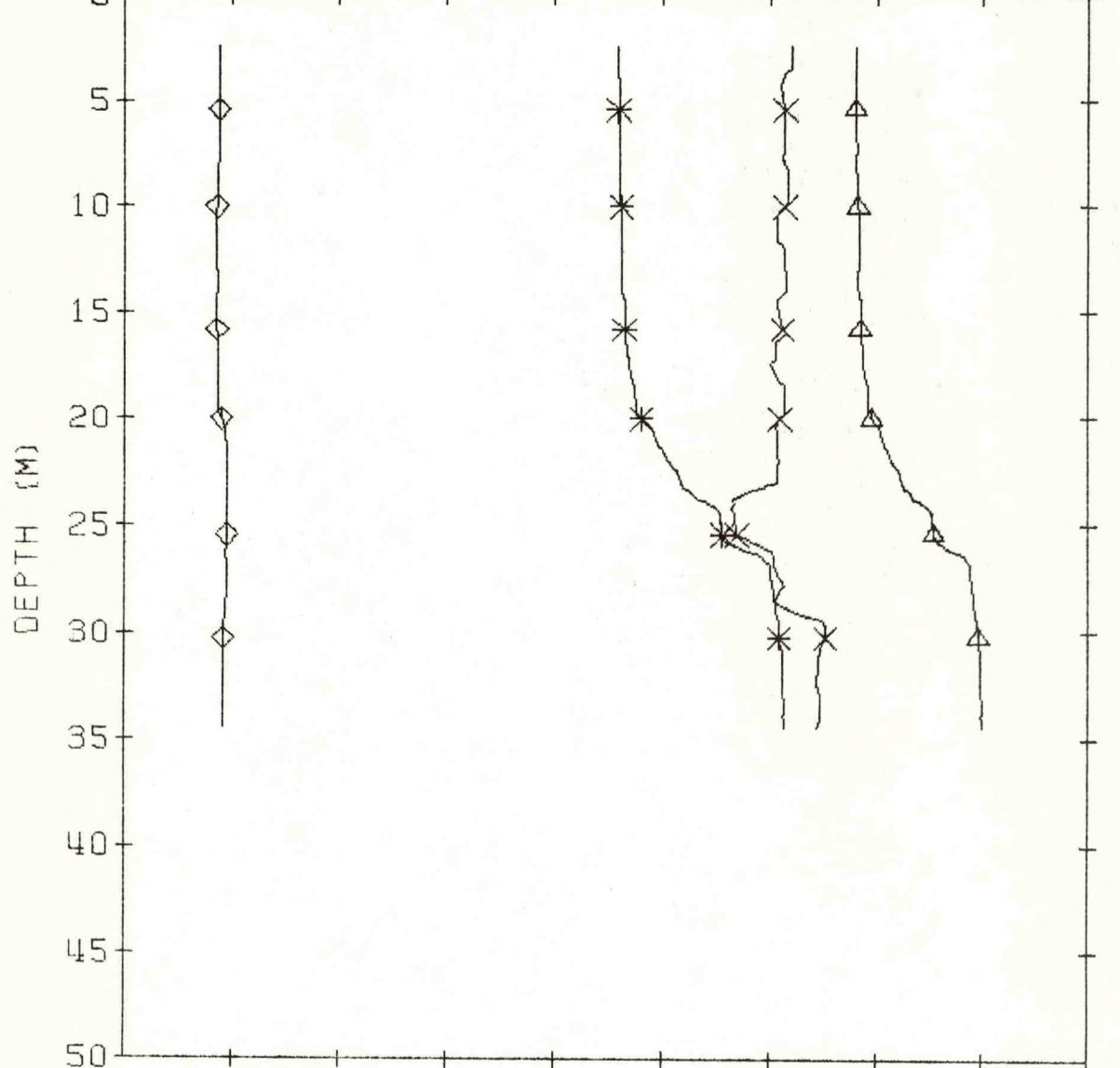
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SALINITY (0/00)

* 27 28 29 30 31 32 33 34 35 36

TEMPERATURE (C)

◇ 5 7 9 11 13 15 17 19 21 23



XWCC-08 STA. 78 LAT 40 5.1N; LONG 73 21.5W GMT 11.2 04/14/76
 DEPTH 40 AIR D/W 10.6/07.8 BARO 18.1 VIS 7 CLD TYP/CVR X/4
 WETHR 0 WIND DIR/SPD 28/08 SEA DIR/HT 25/0 SWELL DIR/HT 25/1

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	6.92	32.33	25.35	84.20	8.3	7.26	.16	.00	.00	.12
2	6.92	32.33	25.35	84.20	8.3					
3	6.91	32.34	25.37	84.30	8.3					
4	6.90	32.34	25.36	84.20	8.3					
5	6.90	32.34	25.36	84.10	8.3					
6	6.90	32.34	25.37	84.20	8.3					
7	6.90	32.34	25.37	84.10	8.3					
8	6.91	32.36	25.37	83.70	8.3					
9	6.91	32.34	25.36	84.20	8.3					
10	6.92	32.35	25.37	84.20	8.3	7.32	.08	.16	.00	.18
11	6.92	32.38	25.40	84.20	8.3					
12	6.92	32.39	25.40	83.70	8.3					
13	6.94	32.40	25.41	84.10	8.3					
14	6.94	32.42	25.42	84.10	8.3					
15	6.91	32.41	25.41	83.70	8.3					
16	6.83	32.42	25.44	82.40	8.3					
17	6.78	32.45	25.47	82.30	8.3					
18	6.76	32.48	25.49	82.30	8.3					
19	6.76	32.51	25.52	82.30	8.3					
20	6.78	32.52	25.52	82.30	8.3	7.35	.06	.00	.00	.22
21	6.82	32.61	25.59	82.50	8.3					
22	6.92	32.60	25.56	82.30	8.3					
23	6.93	32.61	25.57	82.30	8.3					
24	6.93	32.61	25.58	82.40	8.3					
25	6.88	32.63	25.59	82.40	8.3					
26	6.88	32.63	25.59	82.40	8.3					
27	6.88	32.63	25.59	82.20	8.3					
28	6.89	32.65	25.65	82.20	8.3					
29	6.89	32.74	25.69	82.30	8.3					
30	6.93	32.81	25.73	82.30	8.3					
31	6.98	32.86	25.74	82.70	8.3					
32	7.01	32.91	25.88	83.00	8.2					
33	6.98	33.15	26.00	82.40	8.1					
34	7.00	33.19	26.03	82.40	8.1					
35	7.01	33.24	26.07	80.50	8.1	6.14	.10	.00	1.94	.34

KELEZ CRUISE XWCC-8 STATION 78 APR. 14, 1976

TRANSMISSIVITY (0/0)

X 50 55 60 65 70 75 80 85 90 95

SIGMA-T

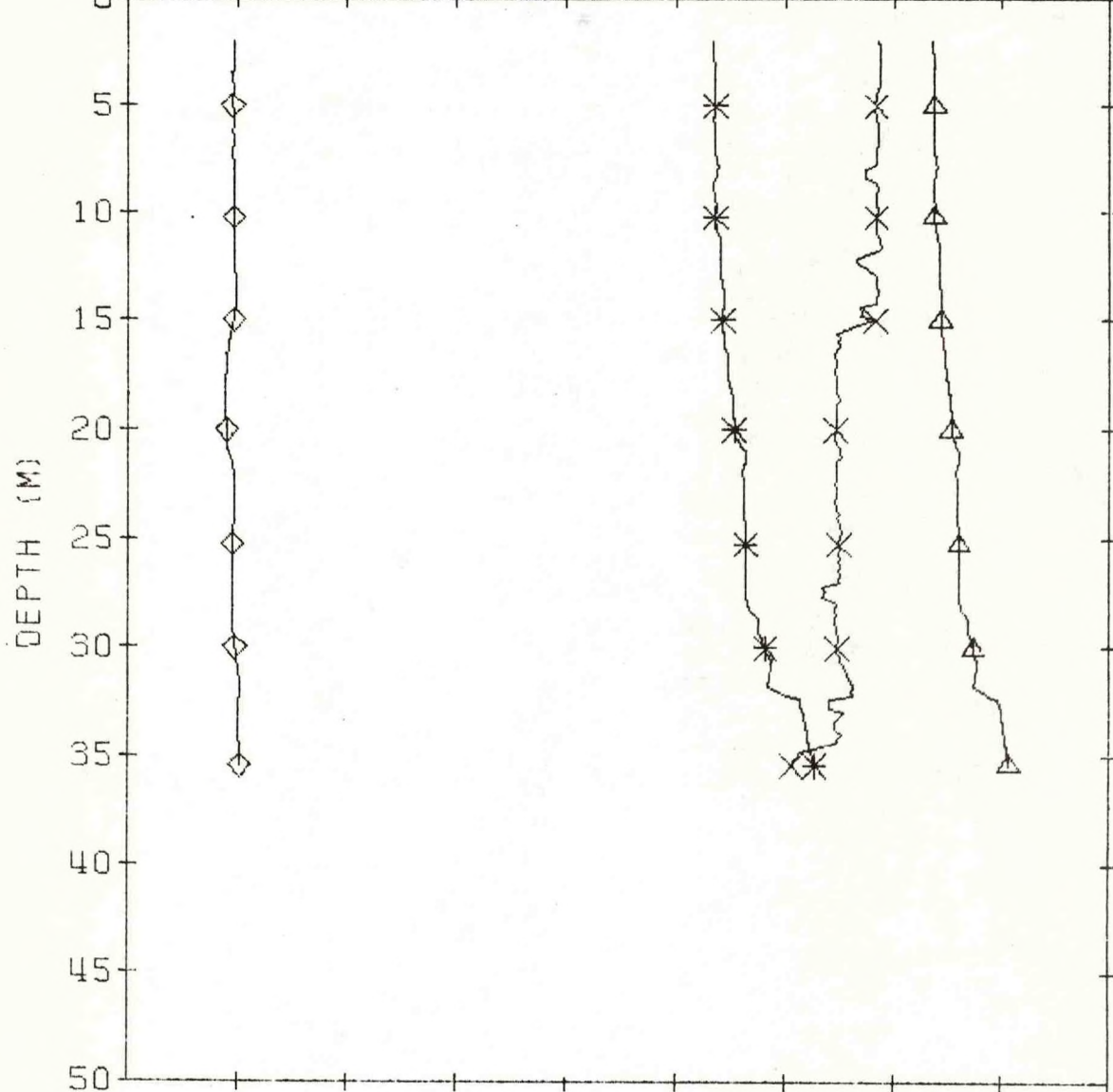
△ 18 19 20 21 22 23 24 25 26 27

SALINITY (0/00)

* 27 28 29 30 31 32 33 34 35 36

TEMPERATURE (C)

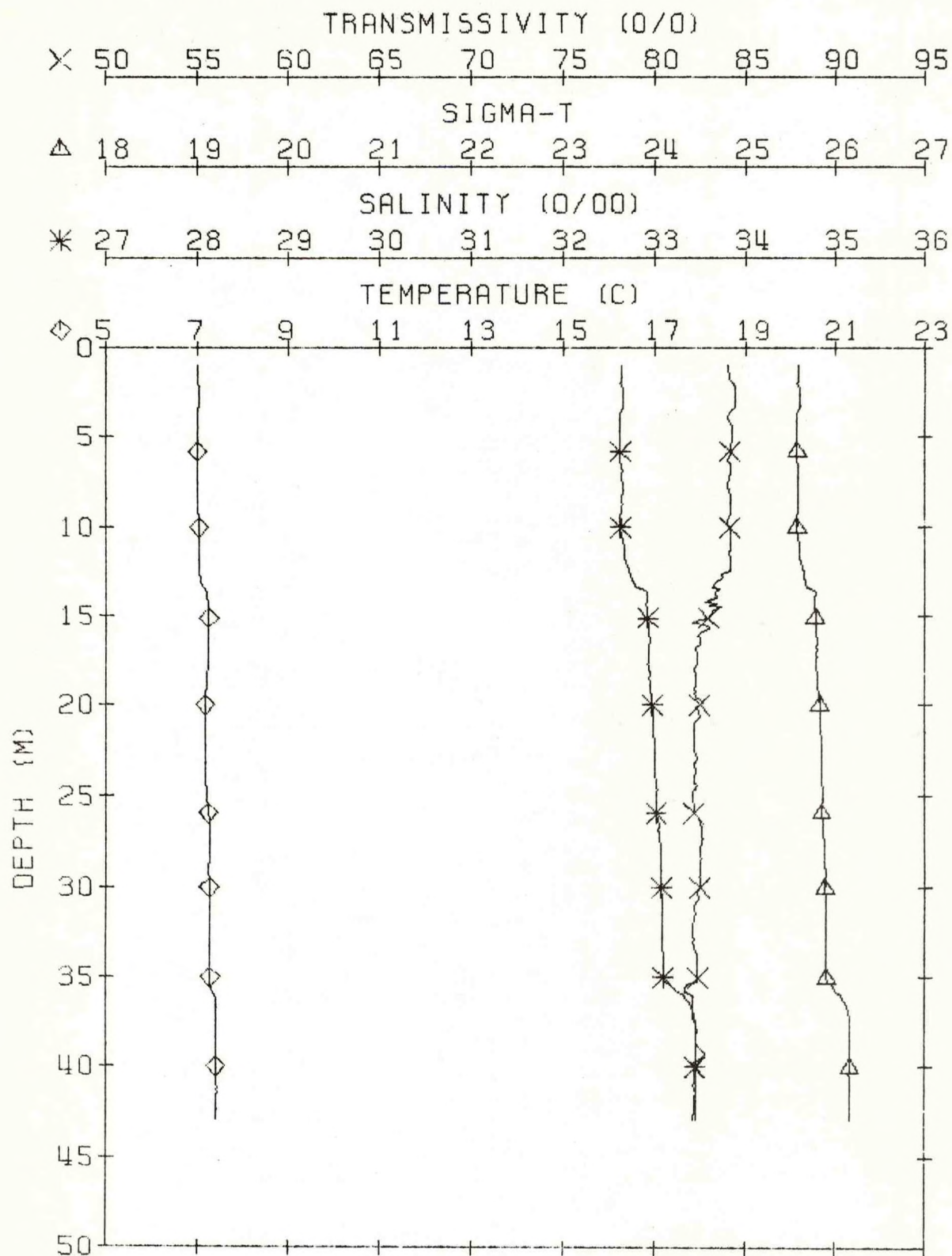
◇ 5 7 9 11 13 15 17 19 21 23



XWCC-08 STA. 79 LAT 40 .2N; LONG 73 9.6W GMT 09.4 04/14/76
 DEPTH 47 AIR D/W 09.4/07.2 BARO 18.0 VIS 7 CLD TYP/CVR X/4
 WETHR 1 WIND DIR/SPD 27/10 SEA DIR/HT 27/0 SWELL DIR/HT 27/0

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	6.98	32.63	25.58	84.00	8.3	7.23	.18	.00	.00	.15
2	6.99	32.62	25.58	84.30	8.3					
3	7.01	32.65	25.58	84.40	8.3					
4	6.98	32.61	25.56	84.00	8.3					
5	6.98	32.61	25.57	84.20	8.3					
6	6.98	32.61	25.57	84.10	8.3					
7	6.99	32.63	25.58	84.10	8.3					
8	6.99	32.63	25.58	84.10	8.3					
9	6.99	32.63	25.57	84.20	8.3					
10	7.02	32.62	25.56	84.10	8.3					
11	7.01	32.65	25.60	84.10	8.3	7.23	.06	.00	.00	.09
12	7.02	32.68	25.62	84.10	8.3					
13	7.05	32.75	25.69	83.40	8.3					
14	7.20	32.90	25.76	83.10	8.3					
15	7.23	32.91	25.76	83.00	8.3					
16	7.23	32.93	25.78	82.50	8.3					
17	7.21	32.93	25.78	82.20	8.3					
18	7.20	32.93	25.79	82.10	8.3					
19	7.17	32.94	25.80	82.20	8.3					
20	7.15	32.97	25.82	82.40	8.3					
21	7.15	32.98	25.83	82.20	8.3	6.99	.08	.00	.12	.10
22	7.14	32.99	25.84	82.10	8.3					
23	7.15	32.99	25.84	82.20	8.3					
24	7.15	33.00	25.85	82.10	8.3					
25	7.20	33.01	25.83	82.10	8.3					
26	7.23	33.01	25.85	82.20	8.3					
27	7.24	33.04	25.87	82.60	8.3					
28	7.24	33.05	25.88	82.50	8.3					
29	7.23	33.06	25.89	82.50	8.3					
30	7.24	33.06	25.88	82.40	8.3					
31	7.24	33.07	25.89	82.20	8.3					
32	7.26	33.07	25.89	82.10	8.3					
33	7.26	33.07	25.89	82.10	8.3					
34	7.26	33.09	25.90	82.30	8.3					
35	7.26	33.09	25.91	82.30	8.3					
36	7.36	33.30	26.08	81.90	8.2					
37	7.39	33.42	26.15	82.10	8.1					
38	7.39	33.44	26.16	82.20	8.1					
39	7.39	33.44	26.16	82.50	8.1					
40	7.39	33.44	26.15	82.10	8.1					
41	7.40	33.44	26.16	82.10	8.1					
42	7.40	33.44	26.16	82.10	8.1	5.91	.06	.00	3.14	.39

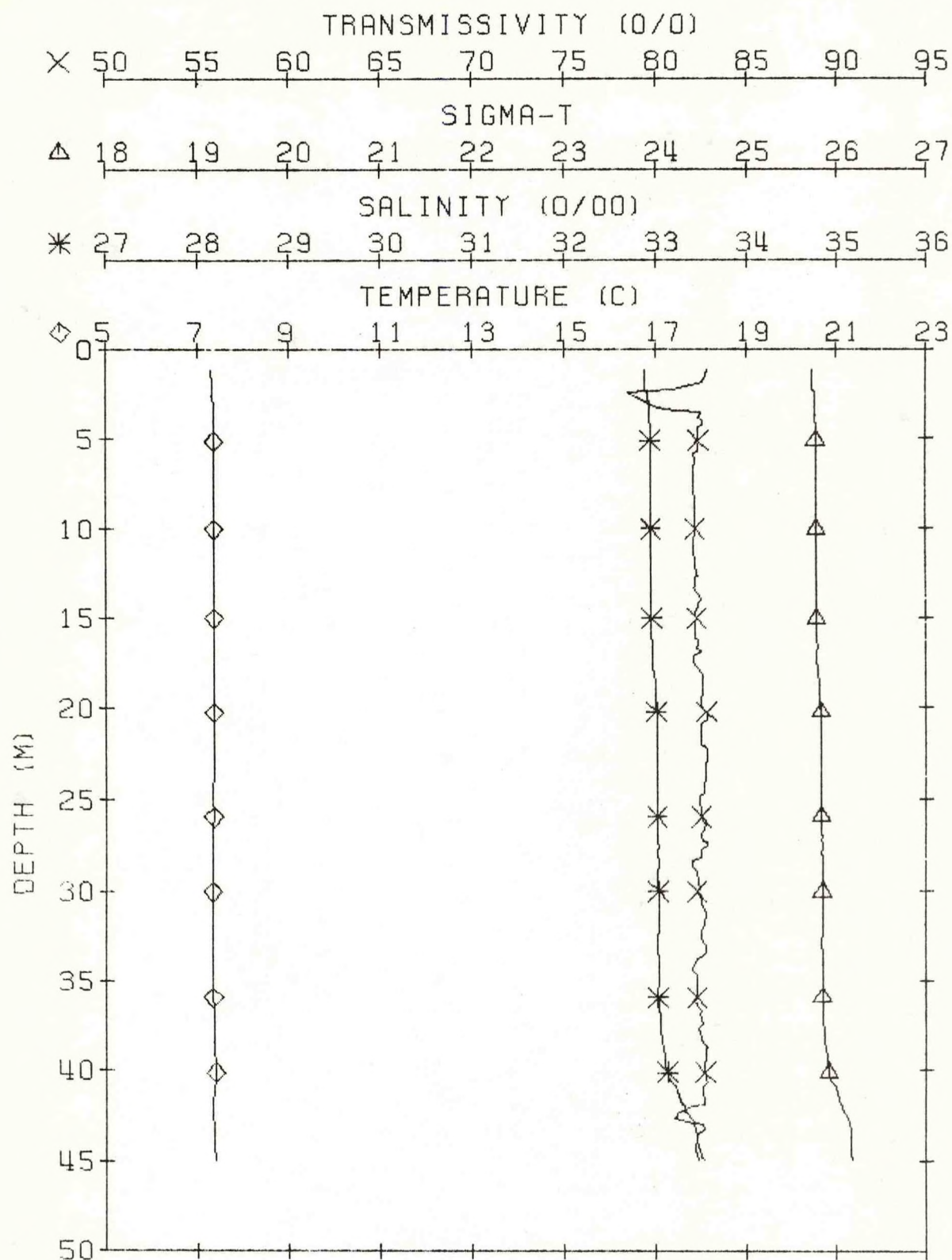
KELEZ CRUISE XWCC-8 STATION 79 APR. 14, 1976



XWCC-08 STA. 80 LAT 39 54.6N; LONG 72 57.0W GMT 07.7 04/14/76
 DEPTH 53 AIR D/W 09.4/07.2 BARO 18.0 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 28/13 SEA DIR/HT 00/0 SWELL DIR/HT 28/0

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	7.30	32.87	25.73	82.80	8.3	7.21	.09	.13	.00	.18
2	7.30	32.87	25.73	81.70	8.3					
3	7.33	32.92	25.76	79.60	8.3					
4	7.35	32.93	25.77	82.50	8.3					
5	7.35	32.94	25.77	82.30	8.3					
6	7.35	32.94	25.77	82.10	8.3					
7	7.35	32.94	25.77	82.00	8.3					
8	7.35	32.94	25.77	82.10	8.3					
9	7.35	32.94	25.77	82.10	8.3					
10	7.35	32.94	25.78	82.10	8.3	7.25	.10	.54	.36	.31
11	7.35	32.94	25.77	82.10	8.3					
12	7.35	32.95	25.78	82.10	8.3					
13	7.35	32.94	25.77	82.10	8.3					
14	7.36	32.94	25.77	82.40	8.3					
15	7.35	32.95	25.78	82.20	8.3					
16	7.35	32.95	25.78	82.10	8.3					
17	7.36	32.95	25.78	82.30	8.3					
18	7.36	32.97	25.80	82.50	8.3					
19	7.36	32.99	25.81	82.50	8.3					
20	7.36	33.00	25.82	82.60	8.3	7.22	.12	.00	.00	.14
21	7.34	33.01	25.83	82.50	8.3					
22	7.34	33.01	25.83	82.60	8.3					
23	7.34	33.01	25.82	82.70	8.3					
24	7.33	33.01	25.83	82.70	8.3					
25	7.33	33.01	25.83	82.40	8.3					
26	7.34	33.01	25.83	82.50	8.3					
27	7.33	33.01	25.83	82.50	8.3					
28	7.33	33.01	25.84	82.50	8.3					
29	7.33	33.02	25.84	82.20	8.3					
30	7.32	33.02	25.84	82.30	8.3					
31	7.32	33.02	25.84	82.60	8.3					
32	7.32	33.02	25.84	82.60	8.3					
33	7.32	33.01	25.84	82.70	8.3					
34	7.32	33.02	25.84	82.10	8.3					
35	7.33	33.02	25.84	82.20	8.3					
36	7.33	33.02	25.84	82.10	8.3					
37	7.34	33.04	25.85	82.40	8.3					
38	7.35	33.05	25.86	82.40	8.3					
39	7.36	33.09	25.89	82.70	8.3					
40	7.38	33.11	25.91	82.60	8.3					
41	7.33	33.22	26.07	82.60	8.3					
42	7.31	33.29	26.06	82.10	8.2					
43	7.34	33.41	26.15	82.30	8.1					
44	7.36	33.43	26.15	82.30	8.1	6.02	.12	.00	1.06	.28

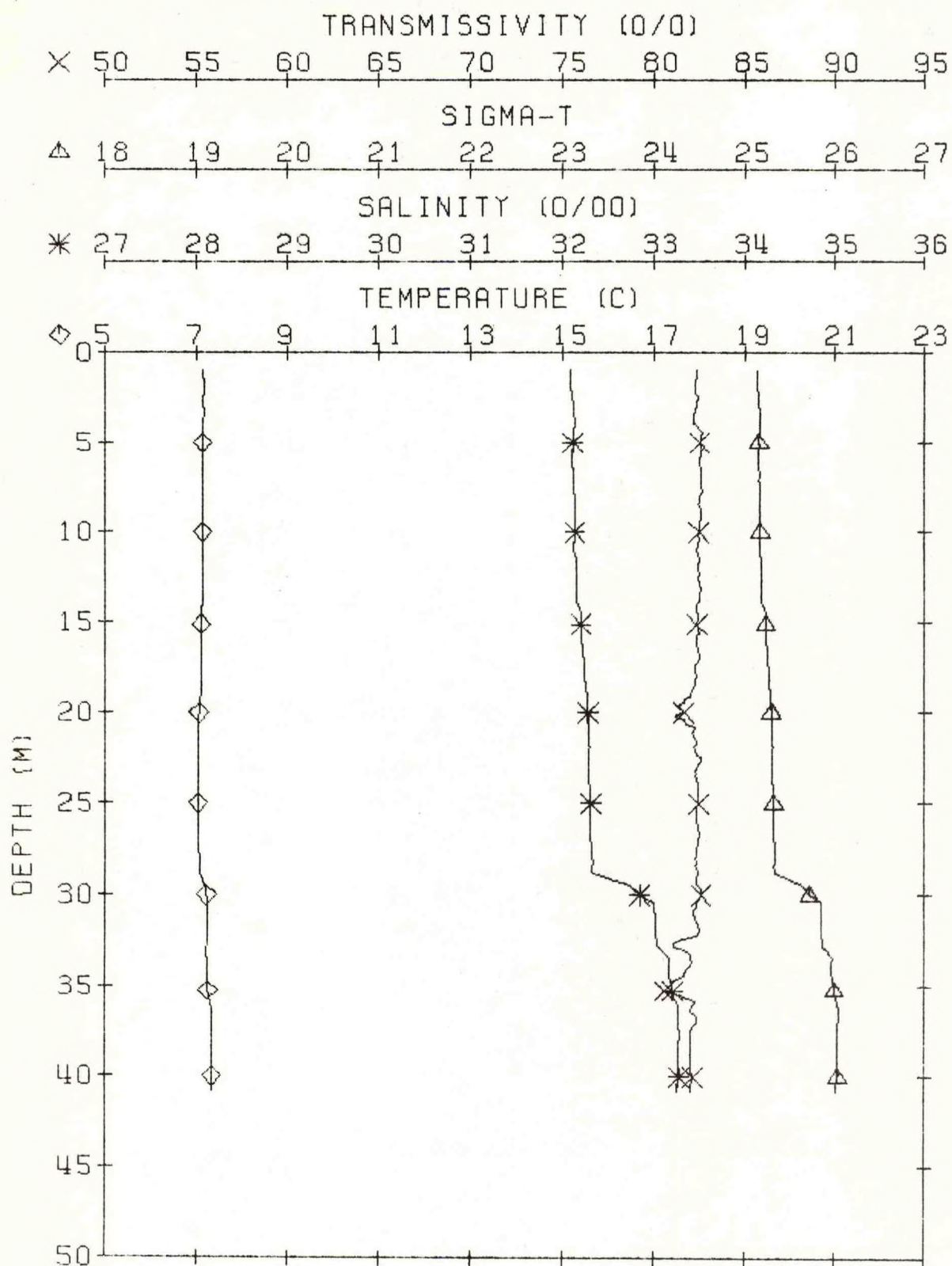
KELEZ CRUISE XWCC-8 STATION 80 APR. 14, 1976



XWCC-08 STA. 81 LAT 39 44.4N; LONG 73 9.8W GMT 04.2 04/14/76
 DEPTH 43 AIR D/W 10.0/07.8 BARO 17.5 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 24/15 SEA DIR/HT 23/0 SWELL DIR/HT 18/1

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	7.13	32.08	25.13	82.30	8.3	7.31	.01	.00	.00	.13
2	7.14	32.09	25.14	82.20	8.3					
3	7.13	32.11	25.15	82.30	8.3					
4	7.12	32.12	25.15	82.30	8.3					
5	7.11	32.10	25.15	82.50	8.4					
6	7.13	32.09	25.13	82.50	8.3					
7	7.11	32.11	25.15	82.60	8.3					
8	7.11	32.12	25.16	82.50	8.3					
9	7.12	32.12	25.17	82.60	8.3					
10	7.12	32.12	25.16	82.40	8.3	7.34	.04	.00	.00	.09
11	7.13	32.12	25.16	82.40	8.3					
12	7.11	32.14	25.18	82.40	8.3					
13	7.11	32.15	25.18	82.50	8.3					
14	7.11	32.16	25.21	82.30	8.3					
15	7.09	32.19	25.23	82.30	8.3					
16	7.08	32.20	25.23	82.30	8.3					
17	7.08	32.22	25.24	82.40	8.3					
18	7.08	32.23	25.25	82.20	8.3					
19	7.07	32.25	25.27	82.00	8.3					
20	7.04	32.27	25.29	81.40	8.3	7.19	.10	.00	.00	.09
21	7.02	32.28	25.30	82.10	8.3					
22	7.02	32.28	25.30	82.20	8.3					
23	7.02	32.28	25.30	82.30	8.3					
24	7.02	32.28	25.31	82.40	8.3					
25	7.02	32.30	25.31	82.40	8.3					
26	7.02	32.30	25.31	82.30	8.3					
27	7.02	32.30	25.32	82.40	8.3					
28	7.04	32.32	25.33	82.30	8.3					
29	7.09	32.44	25.50	82.30	8.3					
30	7.19	32.85	25.80	82.50	8.3	6.57	.06	.00	.89	.27
31	7.22	33.01	25.85	82.10	8.3					
32	7.22	33.01	25.85	82.40	8.3					
33	7.20	33.08	25.95	81.60	8.3					
34	7.21	33.16	25.97	81.80	8.3					
35	7.22	33.19	26.00	80.70	8.2					
36	7.29	33.25	26.03	82.10	8.1					
37	7.31	33.26	26.03	82.30	8.1					
38	7.32	33.26	26.02	82.00	8.1					
39	7.32	33.25	26.02	82.00	8.1					
40	7.32	33.26	26.02	82.10	8.1	6.25	.06	.00	1.64	.26

KELEZ CRUISE XWCC-8 STATION 81 APR. 14, 1976



XWCC-08 STA. 82 LAT 39 51.0N; LONG 73 19.8W GMT 00.1 04/14/76
 DEPTH 46 AIR D/W 08.3/03.9 BARO 16.5 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 20/18 SEA DIR/HT 20/0 SWELL DIR/HT 20/2

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	7.18	32.35	25.33	82.40	8.3	7.32	.13	.00	.00	.16
2	7.18	32.34	25.31	82.40	8.3					
3	7.17	32.32	25.33	84.10	8.3					
4	7.20	32.34	25.32	82.30	8.3					
5	7.22	32.34	25.32	82.30	8.3					
6	7.17	32.35	25.34	82.40	8.3					
7	7.15	32.35	25.33	82.40	8.3					
8	7.15	32.36	25.34	82.50	8.3					
9	7.17	32.35	25.34	82.50	8.3					
10	7.18	32.35	25.33	82.40	8.3					
11	7.18	32.33	25.31	82.50	8.3					
12	7.18	32.33	25.32	82.50	8.3					
13	7.17	32.34	25.32	82.40	8.3					
14	7.17	32.34	25.32	82.40	8.3					
15	7.12	32.37	25.37	82.30	8.3					
16	6.99	32.49	25.49	82.20	8.3					
17	6.92	32.56	25.54	82.30	8.3					
18	6.93	32.59	25.56	82.10	8.3					
19	6.96	32.61	25.57	82.20	8.3					
20	7.04	32.60	25.53	82.30	8.3	7.11	.07	.00	4.36	.16
21	7.06	32.58	25.53	82.40	8.3					
22	7.08	32.62	25.56	82.40	8.3					
23	7.07	32.64	25.59	82.40	8.3					
24	7.05	32.67	25.60	82.30	8.3					
25	7.04	32.67	25.60	82.30	8.3					
26	7.02	32.67	25.60	82.30	8.3					
27	6.99	32.70	25.67	82.20	8.3					
28	6.92	32.78	25.73	82.30	8.3					
29	6.86	32.87	25.81	82.10	8.3					
30	6.85	32.91	25.79	82.10	8.3	6.48	.09	.00	1.09	.24
31	6.82	32.91	25.84	82.50	8.1					
32	6.85	32.97	25.90	82.10	8.1					
33	6.84	33.04	25.93	82.30	8.1					
34	6.85	33.07	25.94	82.10	8.1					
35	6.85	33.11	25.98	82.30	8.1					
36	6.84	33.12	25.98	82.20	8.1					
37	6.84	33.12	25.98	82.20	8.1					
38	6.84	33.12	25.98	82.10	8.1					
39	6.84	33.12	25.98	82.30	8.1					
40	6.84	33.12	25.98	82.30	8.1					
41	6.84	33.12	25.98	82.30	8.1					
42	6.84	33.15	25.99	82.20	8.1					
43	6.84	33.13	25.99	82.40	8.1					
44	6.84	33.13	25.99	82.40	8.1					
45	6.86	33.12	25.98	82.30	8.1	6.06	.06	.11	3.38	.40
46	6.86	33.13	25.99	82.40	8.1					

KELEZ CRUISE XWCC-8 STATION 82 APR. 14, 1976

TRANSMISSIVITY (0/0)

X 50 55 60 65 70 75 80 85 90 95

SIGMA-T

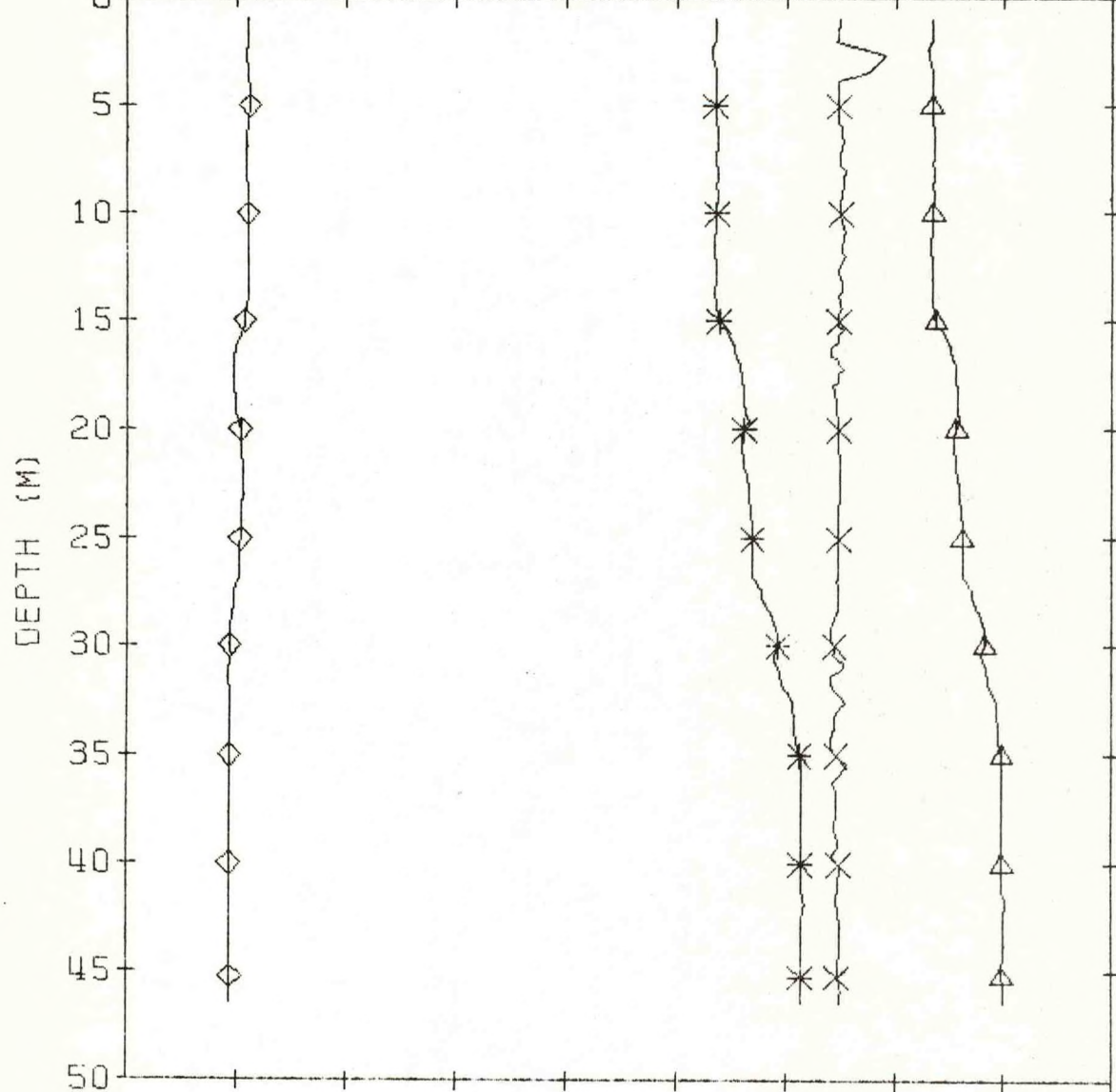
△ 18 19 20 21 22 23 24 25 26 27

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-08 STA. 83 LAT 39 56.6N; LONG 73 30.5W GMT 20.6 04/13/76
 DEPTH 39 AIR D/W 09.4/ . BARO 17.0 VIS 8 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 20/12 SEA DIR/HT 18/1 SWELL DIR/HT 00/0

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	7.33	32.70	25.59	84.20	8.3	7.28	.10	.00	.00	.21
2	7.32	32.71	25.59	84.00	8.3					
3	7.34	32.69	25.61	84.00	8.3					
4	7.36	32.72	25.60	84.00	8.3					
5	7.31	32.74	25.61	84.10	8.3					
6	7.31	32.72	25.61	84.10	8.3					
7	7.27	32.79	25.68	83.80	8.3					
8	7.23	32.82	25.69	83.60	8.3					
9	7.18	32.84	25.72	83.20	8.3					
10	7.17	32.84	25.72	83.40	8.3	7.43	.07	.00	.56	.27
11	7.12	32.84	25.72	82.50	8.3					
12	7.09	32.84	25.72	82.90	8.3					
13	7.04	32.86	25.75	82.60	8.3					
14	7.02	32.86	25.75	82.50	8.3					
15	7.02	32.86	25.75	82.40	8.3					
16	7.00	32.86	25.75	83.10	8.3					
17	6.95	32.86	25.76	82.50	8.3					
18	6.95	32.86	25.76	8+. >0	8.3					
19	6.95	32.86	25.76	82.30	8.3					
20	6.93	32.86	25.76	82.30	8.3	7.30	.06	.00	.60	.23
21	6.93	32.85	25.76	82.40	8.3					
22	6.93	32.85	25.76	82.30	8.3					
23	6.92	32.86	25.77	82.50	8.3					
24	6.92	32.85	25.77	82.30	8.3					
25	6.91	32.86	25.78	82.50	8.3					
26	6.91	32.87	25.78	82.50	8.3					
27	6.91	32.87	25.78	82.30	8.3					
28	6.91	32.87	25.78	82.50	8.3					
29	6.90	32.88	25.79	82.50	8.3					
30	6.83	32.92	25.85	81.90	8.3					
31	6.74	33.11	26.01	81.90	8.1					
32	6.72	33.14	26.03	82.40	8.1					
33	6.73	33.19	26.05	82.80	8.1					
34	6.74	33.18	26.04	82.70	8.1					
35	6.74	33.18	26.04	82.00	8.1	5.92	.03	.00	3.94	.20

KELEZ CRUISE XWCC-8 STATION 83 APR. 13, 1976

TRANSMISSIVITY (0/0)

X 50 55 60 65 70 75 80 85 90 95

SIGMA-T

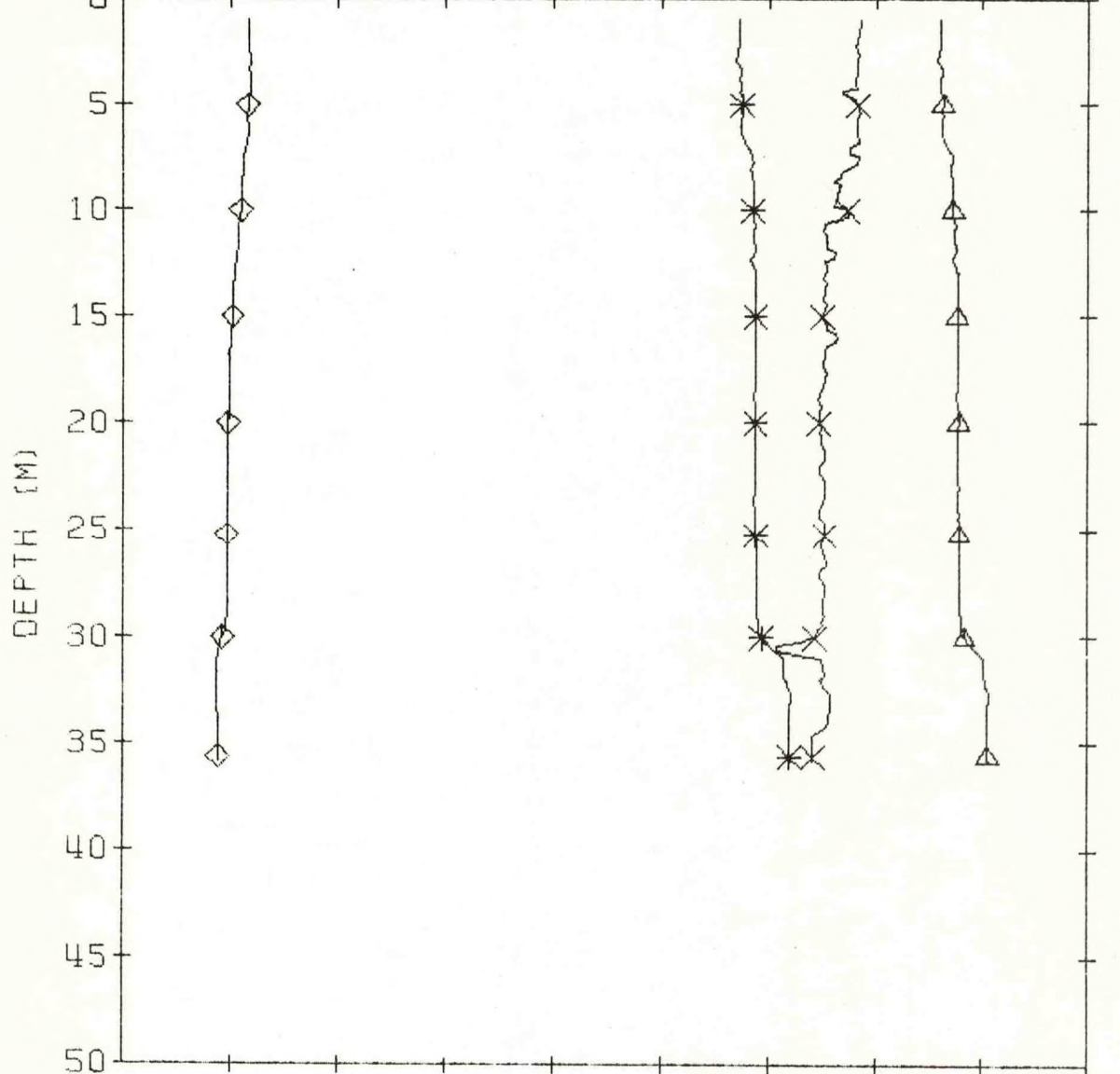
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SALINITY (0/00)

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TEMPERATURE (C)

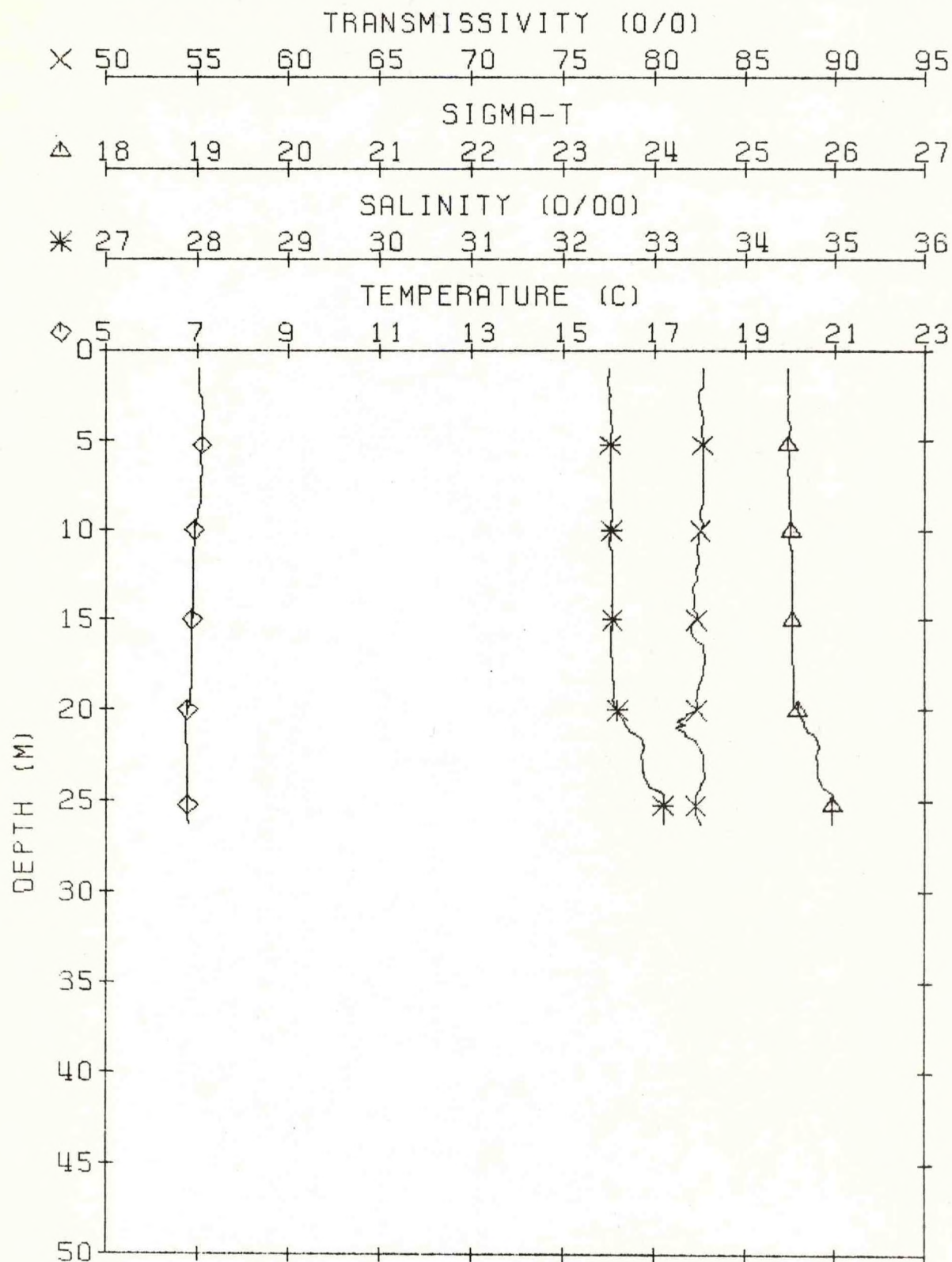
◇ 5 7 9 11 13 15 17 19 21 23



XWCC-08 STA. 84 LAT 40 2.2N; LONG 73 41.0W GMT 17.1 04/13/76
 DEPTH 29 AIR D/W 08.9/ . BARO 20.0 VIS 7 CLD TYP/CVR X/4
 WETHR 1 WIND DIR/SPD 20/09 SEA DIR/HT 25/0 SWELL DIR/HT 28/0

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	7.02	32.49	25.46	82.60	8.3	7.39	.11	.11	.00	.15
2	7.03	32.49	25.47	82.50	8.3					
3	7.10	32.50	25.46	82.50	8.3					
4	7.08	32.52	25.48	82.60	8.3					
5	7.08	32.50	25.47	82.60	8.3					
6	7.07	32.51	25.47	82.60	8.3					
7	7.07	32.51	25.48	82.60	8.3					
8	7.05	32.51	25.47	82.60	8.3					
9	6.98	32.52	25.50	82.50	8.3					
10	6.92	32.51	25.49	82.50	8.3	7.20	.10	.60	.44	.19
11	6.89	32.51	25.50	82.30	8.3					
12	6.88	32.52	25.50	82.30	8.3					
13	6.88	32.52	25.50	82.10	8.3					
14	6.88	32.52	25.50	82.10	8.3					
15	6.87	32.52	25.51	82.20	8.3					
16	6.85	32.51	25.50	82.20	8.3					
17	6.84	32.51	25.51	82.70	8.3					
18	6.84	32.53	25.52	82.60	8.3					
19	6.83	32.54	25.52	82.30	8.3					
20	6.76	32.58	25.59	82.10	8.2	6.24	.09	.00	1.25	.27
21	6.72	32.70	25.69	81.40	8.1					
22	6.74	32.87	25.78	82.40	8.1					
23	6.76	32.86	25.80	82.60	8.1					
24	6.76	32.92	25.91	82.60	8.1					
25	6.76	33.09	25.96	82.20	8.1	5.97	.01	.00	4.54	.27
26	6.77	33.08	25.96	82.40	8.1					

KELEZ CRUISE XWCC-8 STATION 84 APR. 13, 1976



XWCC-08 STA. 85 LAT 40 7.9N; LONG 73 51.5W GMT 02.9 04/13/76
 DEPTH 26 AIR D/W 06.1/01.1 BARO 22.0 VIS 7 CLD TYP/CVR /0
 WETHR 0 WIND DIR/SPD 30/00 SEA DIR/HT 00/0 SWELL DIR/HT 00/0

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	7.02	30.59	23.98	78.20	8.3	7.48	.17	.10	.04	.06
2	7.02	30.59	23.98	78.70	8.3					
3	7.02	30.59	23.97	78.90	8.3					
4	7.02	30.56	23.95	78.30	8.3					
5	7.02	30.59	23.97	79.00	8.3					
6	7.04	30.59	23.97	78.80	8.3					
7	7.04	30.61	24.00	79.00	8.3					
8	7.04	30.66	24.03	78.90	8.3					
9	7.04	30.69	24.06	80.10	8.3					
10	7.03	30.73	24.11	78.80	8.3	7.62	.19	.00	.00	.11
11	7.03	30.80	24.14	80.10	8.3					
12	7.02	30.87	24.20	79.80	8.3					
13	7.02	30.91	24.22	80.30	8.3					
14	7.02	30.93	24.24	79.90	8.3					
15	7.02	30.95	24.26	80.20	8.3					
16	7.01	30.98	24.29	80.20	8.3					
17	7.00	31.01	24.31	80.10	8.3					
18	6.98	31.03	24.33	80.50	8.3					
19	6.94	31.13	24.44	80.10	8.3					
20	6.88	31.27	24.57	78.90	8.3					
21	6.84	31.39	24.65	80.40	8.3					
22	6.78	31.54	24.80	80.30	8.3					
23	6.68	31.80	25.03	80.30	8.1					
24	6.71	31.95	25.09	80.00	8.1	5.91	.15	.00	.88	.26

KELEZ CRUISE XWCC-8 STATION 85 APR. 13, 1976

TRANSMISSIVITY (0/G)

X 50 55 60 65 70 75 80 85 90 95

SIGMA-T

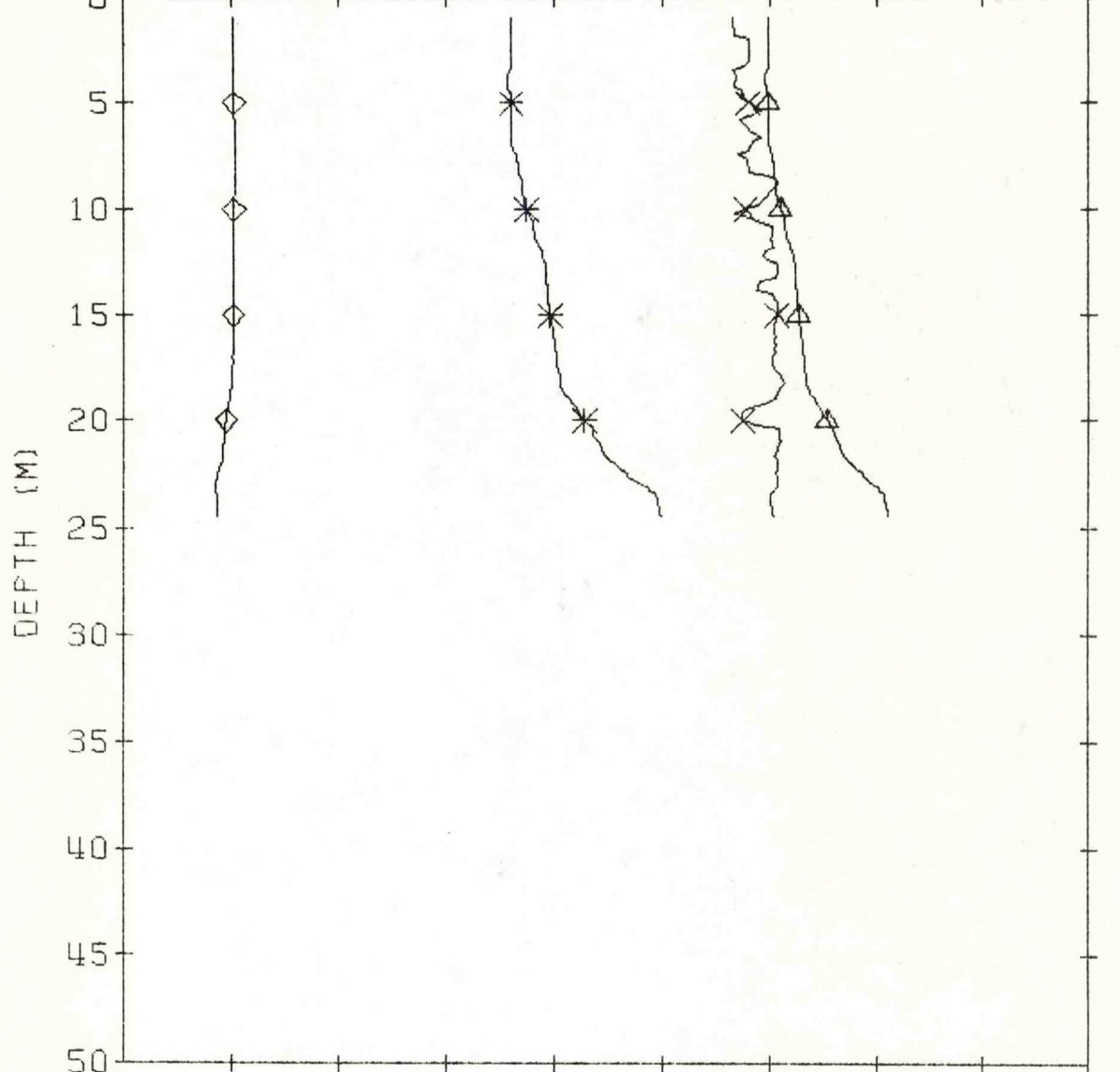
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SALINITY (0/00)

* 27 28 29 30 31 32 33 34 35 36

TEMPERATURE (C)

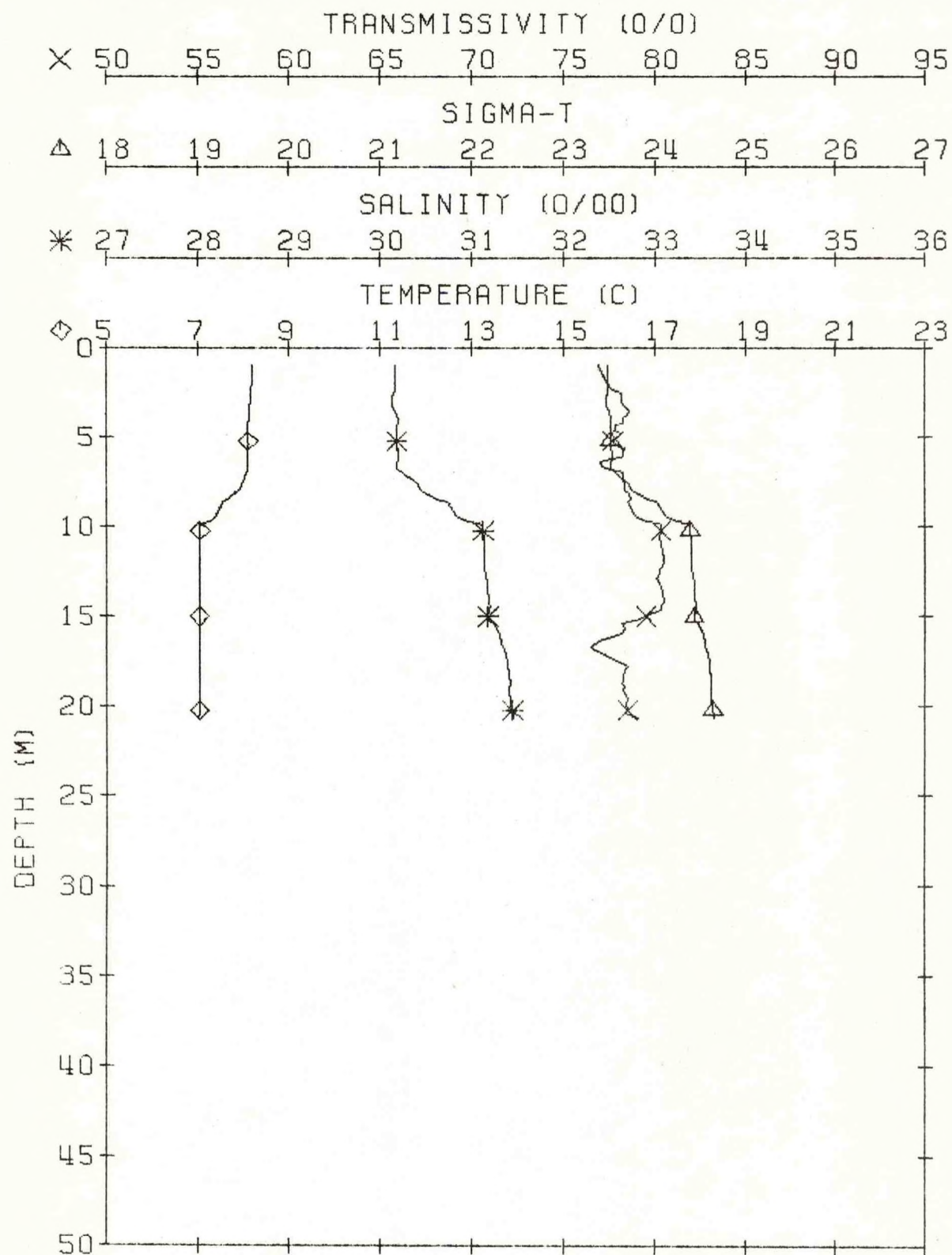
◇ 5 7 9 11 13 15 17 19 21 23



XWCC-08 STA. 86 LAT 39 47.6N; LONG 73 56.6W GMT 03.6 04/16/76
 DEPTH 21 AIR D/W 10.6/08.9 BARO 20.5 VIS 7 CLD TYP/CVR X/4
 WETHR 1 WIND DIR/SPD 21/16 SEA DIR/HT 01/0 SWELL DIR/HT 21/2

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	8.18	30.15	23.47	76.90	8.3	7.50	.05	.05	.90	.04
2	8.18	30.16	23.48	77.40	8.3					
3	8.14	30.13	23.47	78.20	8.3					
4	8.10	30.19	23.51	78.20	8.3					
5	8.10	30.18	23.51	77.90	8.3					
6	8.08	30.20	23.52	78.20	8.3					
7	8.06	30.24	23.60	78.00	8.3					
8	7.86	30.46	23.81	78.40	8.3					
9	7.45	30.78	24.13	78.70	8.3					
10	7.03	31.12	24.38	80.30	8.3	7.64	.09	.00	.39	.03
11	7.02	31.12	24.39	80.30	8.3					
12	7.02	31.13	24.39	80.40	8.3					
13	7.02	31.15	24.42	80.10	8.3					
14	7.01	31.17	24.44	80.40	8.3					
15	7.02	31.17	24.43	79.40	8.3					
16	7.02	31.29	24.54	77.90	8.3					
17	7.02	31.35	24.58	76.90	8.3					
18	7.02	31.38	24.60	78.30	8.3					
19	7.03	31.39	24.60	78.20	8.3					
20	7.01	31.42	24.64	78.40	8.3	6.81	.04	.63	1.22	.01

KELEZ CRUISE XWCC-8 STATION 86 APR. 12, 1976



XWCC-08 STA. 87 LAT 39 43.9N; LONG 73 43.0W GMT 01.6 04/16/76
 DEPTH 29 AIR D/W 11.7/09.4 BARO 20.5 VIS 7 CLD TYP/CVR X/4
 WETHR 1 WIND DIR/SPD 20/16 SEA DIR/HT 00/0 SWELL DIR/HT 20/0

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	7.70	31.46	24.56	80.80	8.3	7.44	.05	.00	.81	.00
2	7.69	31.46	24.56	81.20	8.3					
3	7.71	31.46	24.56	82.10	8.3					
4	7.67	31.47	24.58	81.80	8.3					
5	7.65	31.49	24.62	82.20	8.3					
6	7.53	31.54	24.66	81.90	8.3					
7	7.26	31.67	24.86	80.60	8.3					
8	7.05	31.82	24.95	80.50	8.3					
9	7.04	31.84	24.96	80.20	8.3					
10	6.94	31.89	25.03	80.00	8.3	7.65	.12	.46	.00	.06
11	6.84	31.94	25.08	80.00	8.3					
12	6.85	31.93	25.05	79.50	8.3					
13	6.79	31.93	25.07	78.30	8.3					
14	6.72	31.97	25.10	80.60	8.3					
15	6.72	31.97	25.09	80.30	8.3					
16	6.71	31.98	25.11	80.40	8.3					
17	6.71	31.98	25.10	80.50	8.3					
18	6.70	31.98	25.10	80.30	8.3					
19	6.71	31.98	25.10	80.00	8.3					
20	6.71	31.98	25.10	80.00	8.3	7.11	.04	.42	3.25	.07
21	6.71	31.97	25.10	80.10	8.3					
22	6.72	31.97	25.09	80.30	8.3					
23	6.72	31.97	25.09	80.30	8.3					
24	6.72	31.98	25.11	80.00	8.3					
25	6.72	31.99	25.11	80.20	8.3					
26	6.72	31.99	25.11	80.70	8.3					
27	6.72	31.99	25.11	80.30	8.3					
28	6.72	32.00	25.12	80.40	8.3	7.06	.04	.20	2.21	.10

KELEZ CRUISE XWCC-8 STATION 87 APR. 12, 1976

TRANSMISSIVITY (0/0)

X 50 55 60 65 70 75 80 85 90 95

SIGMA-T

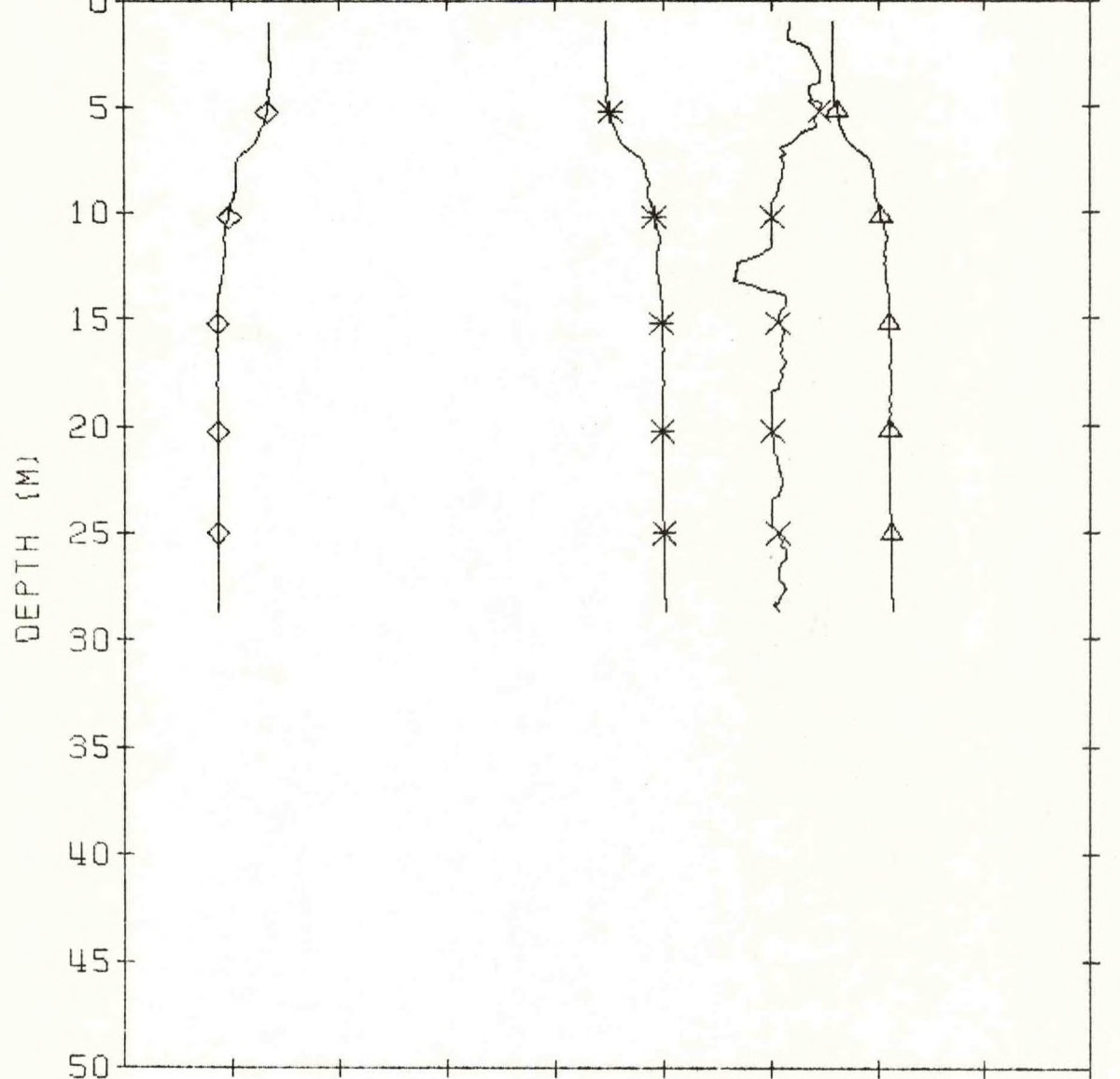
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SALINITY (0/00)

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TEMPERATURE (C)

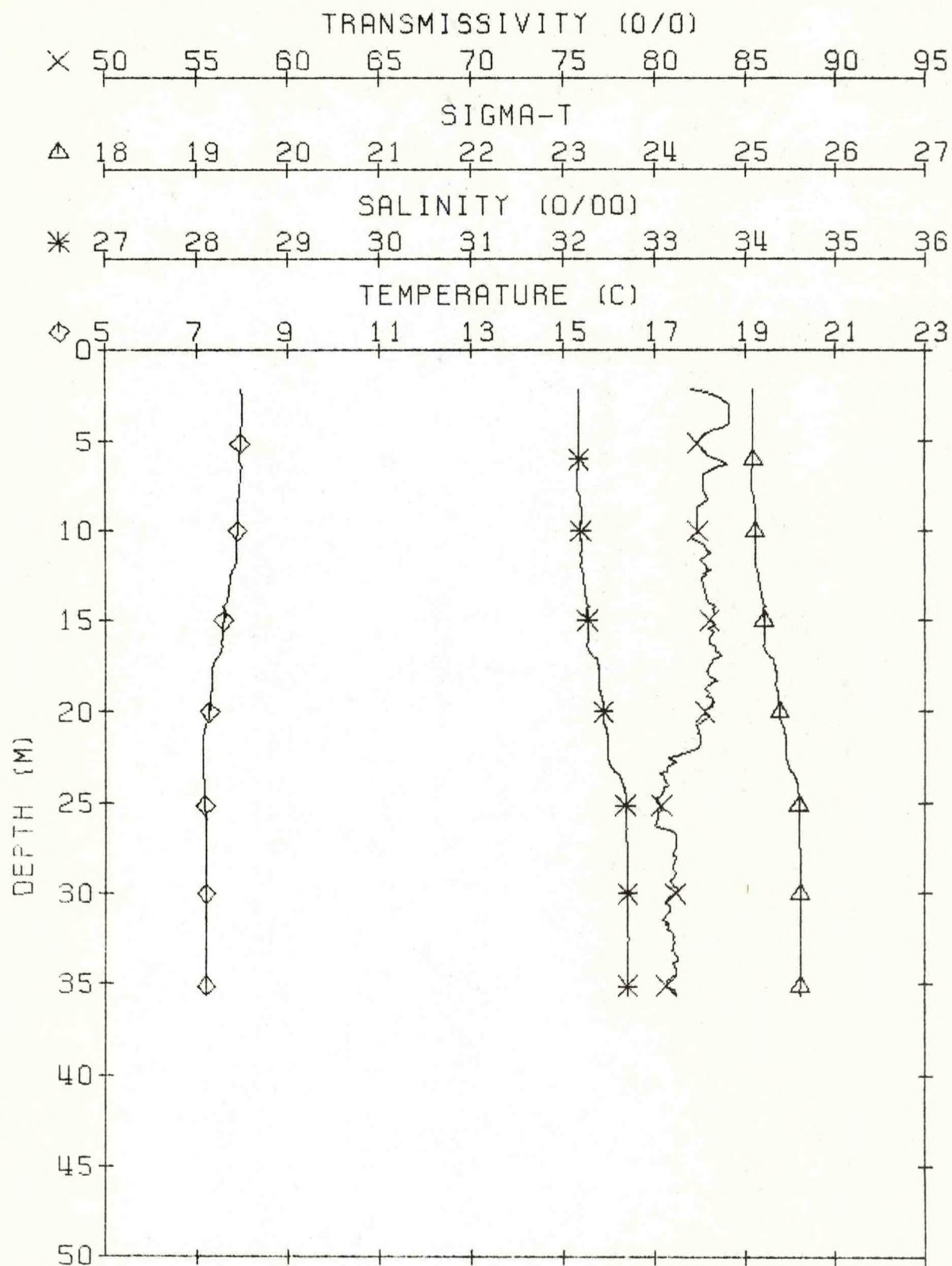
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XWCC-08 STA. 88 LAT 39 40.1N; LONG 73 30.0W GMT 23.7 04/15/76
 DEPTH 38 AIR D/W 12.2/08.9 BARO 19.0 VIS 7 CLD TYP/CVR X/4
 WETHR 1 WIND DIR/SPD 19/20 SEA DIR/HT 19/0 SWELL DIR/HT 19/1

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	7.96	32.16	25.08	82.00	8.4	6.02	.06	1.19	1.44	.01
2	7.96	32.16	25.08	82.00	8.4					
3	7.98	32.16	25.08	83.90	8.3					
4	7.98	32.16	25.07	83.90	8.4					
5	7.95	32.16	25.07	82.40	8.3					
6	7.93	32.16	25.07	83.30	8.3					
7	7.93	32.14	25.05	82.60	8.3					
8	7.91	32.16	25.09	82.80	8.3					
9	7.89	32.19	25.10	82.30	8.3					
10	7.88	32.18	25.10	82.30	8.3	7.37	.00	.02	2.05	.02
11	7.85	32.19	25.12	82.80	8.3					
12	7.81	32.19	25.12	82.80	8.3					
13	7.70	32.22	25.18	82.60	8.3					
14	7.62	32.25	25.24	83.00	8.3					
15	7.57	32.25	25.21	83.10	8.3					
16	7.54	32.26	25.22	83.00	8.3					
17	7.42	32.32	25.32	83.40	8.4					
18	7.32	32.38	25.34	83.00	8.4					
19	7.29	32.40	25.36	82.90	8.4					
20	7.27	32.42	25.38	82.70	8.4	7.74	.00	.00	2.09	.07
21	7.15	32.46	25.43	82.30	8.4					
22	7.12	32.47	25.43	82.10	8.4					
23	7.12	32.52	25.49	80.70	8.4					
24	7.15	32.65	25.57	80.60	8.3					
25	7.16	32.67	25.59	80.30	8.3					
26	7.18	32.68	25.59	80.00	8.3					
27	7.18	32.68	25.60	81.10	8.3					
28	7.18	32.69	25.60	81.10	8.3					
29	7.18	32.69	25.60	81.00	8.3					
30	7.18	32.69	25.60	81.10	8.3	7.08	.04	.00	1.52	.13
31	7.18	32.69	25.60	80.70	8.3					
32	7.18	32.69	25.60	80.70	8.3					
33	7.19	32.70	25.60	81.00	8.3					
34	7.19	32.69	25.60	81.00	8.3					
35	7.19	32.69	25.60	80.60	8.3	7.11	.03	1.04	3.03	.14

KELEZ CRUISE XWCC-8 STATION 88 APR. 15, 1976



XWCC-08 STA. 89 LAT 39 36.2N; LONG 73 16.5W GMT 21.7 04/15/76
 DEPTH 37 AIR D/W 12.8/10.0 BARO 22.0 VIS 7 CLD TYP/CVR X/4
 WETHR 1 WIND DIR/SPD 19/14 SEA DIR/HT 19/0 SWELL DIR/HT 19/0

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	8.02	32.15	25.06	82.70	8.3	7.64	.07	.15	1.24	.04
2	8.02	32.14	25.05	82.70	8.3					
3	8.01	32.14	25.06	82.90	8.3					
4	8.01	32.16	25.06	83.00	8.3					
5	8.02	32.13	25.02	82.20	8.3					
6	8.01	32.14	25.06	82.60	8.3					
7	7.85	32.14	25.07	82.50	8.3					
8	7.77	32.14	25.09	82.20	8.3					
9	7.71	32.15	25.10	82.40	8.3					
10	7.68	32.15	25.11	82.30	8.3	7.75	.03	1.22	1.76	.06
11	7.67	32.17	25.14	82.40	8.3					
12	7.59	32.17	25.13	82.70	8.3					
13	7.46	32.18	25.20	82.00	8.3					
14	7.37	32.24	25.24	81.10	8.3					
15	7.32	32.26	25.24	80.30	8.3					
16	7.28	32.33	25.34	80.40	8.3					
17	7.31	32.62	25.57	80.30	8.3					
18	7.26	32.80	25.67	80.30	8.3					
19	7.26	32.85	25.72	80.10	8.3					
20	7.26	32.86	25.72	80.20	8.3	6.68	.06	1.06	2.45	.18
21	7.26	32.85	25.72	80.20	8.3					
22	7.26	32.85	25.71	80.30	8.3					
23	7.26	32.85	25.72	80.10	8.3					
24	7.25	32.87	25.73	80.30	8.3					
25	7.25	32.86	25.72	80.30	8.3					
26	7.26	32.86	25.71	80.40	8.3					
27	7.26	32.85	25.71	80.30	8.3					
28	7.27	32.85	25.72	80.20	8.3					
29	7.25	32.87	25.73	80.30	8.3					
30	7.26	32.86	25.73	80.10	8.3	6.84	.01	.94	3.03	.19
31	7.25	32.87	25.73	80.40	8.3					
32	7.25	32.86	25.73	80.10	8.3					
33	7.25	32.87	25.73	80.10	8.3					
34	7.26	32.85	25.71	80.10	8.3	6.95	.06	.91	2.16	.12

KELEZ CRUISE XWCC-8 STATION 89 APR. 15, 1976

TRANSMISSIVITY (0/0)

X 50 55 60 65 70 75 80 85 90 95

SIGMA-T

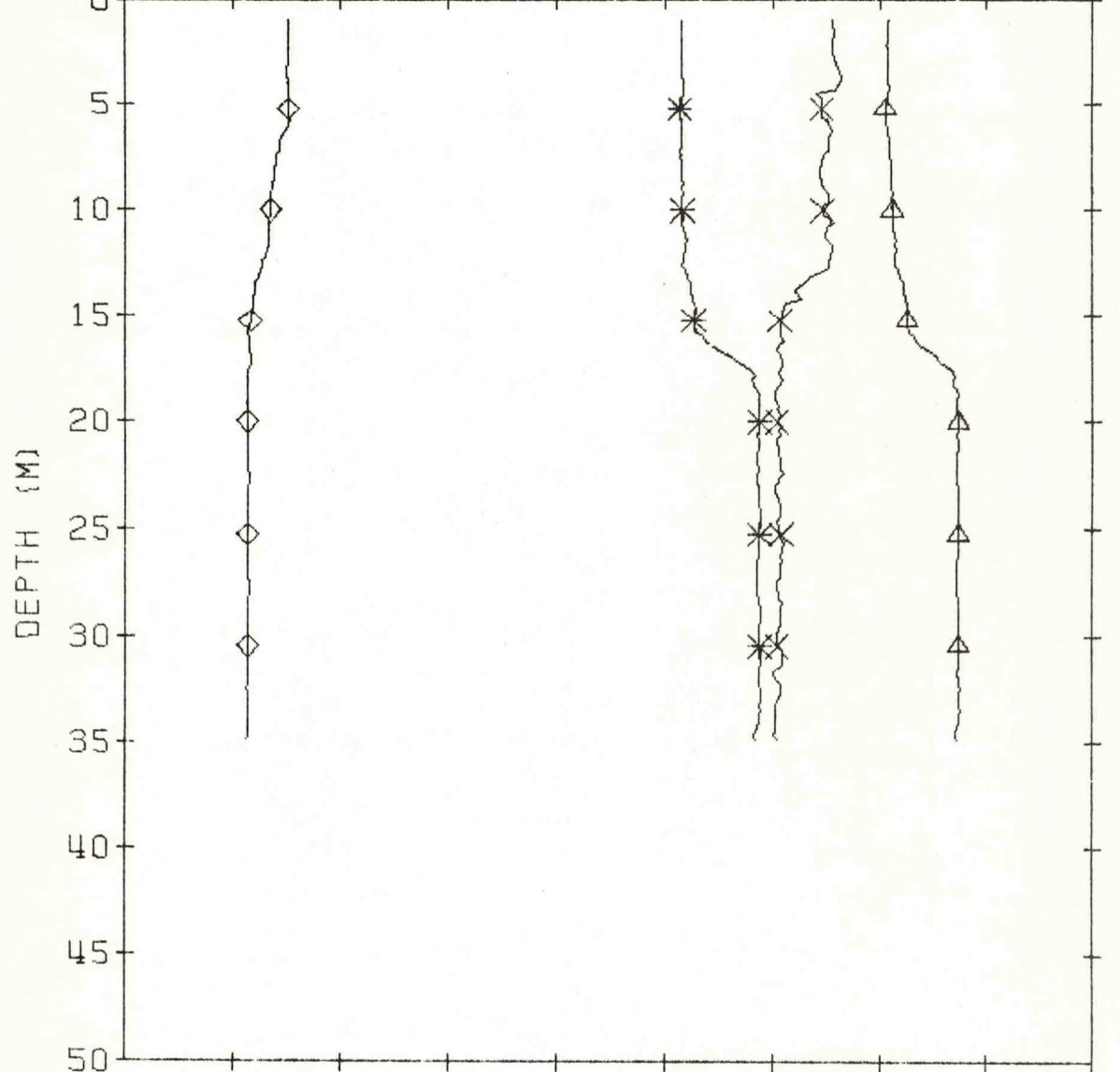
△ 18 19 20 21 22 23 24 25 26 27

SALINITY (0/00)

* 27 28 29 30 31 32 33 34 35 36

TEMPERATURE (C)

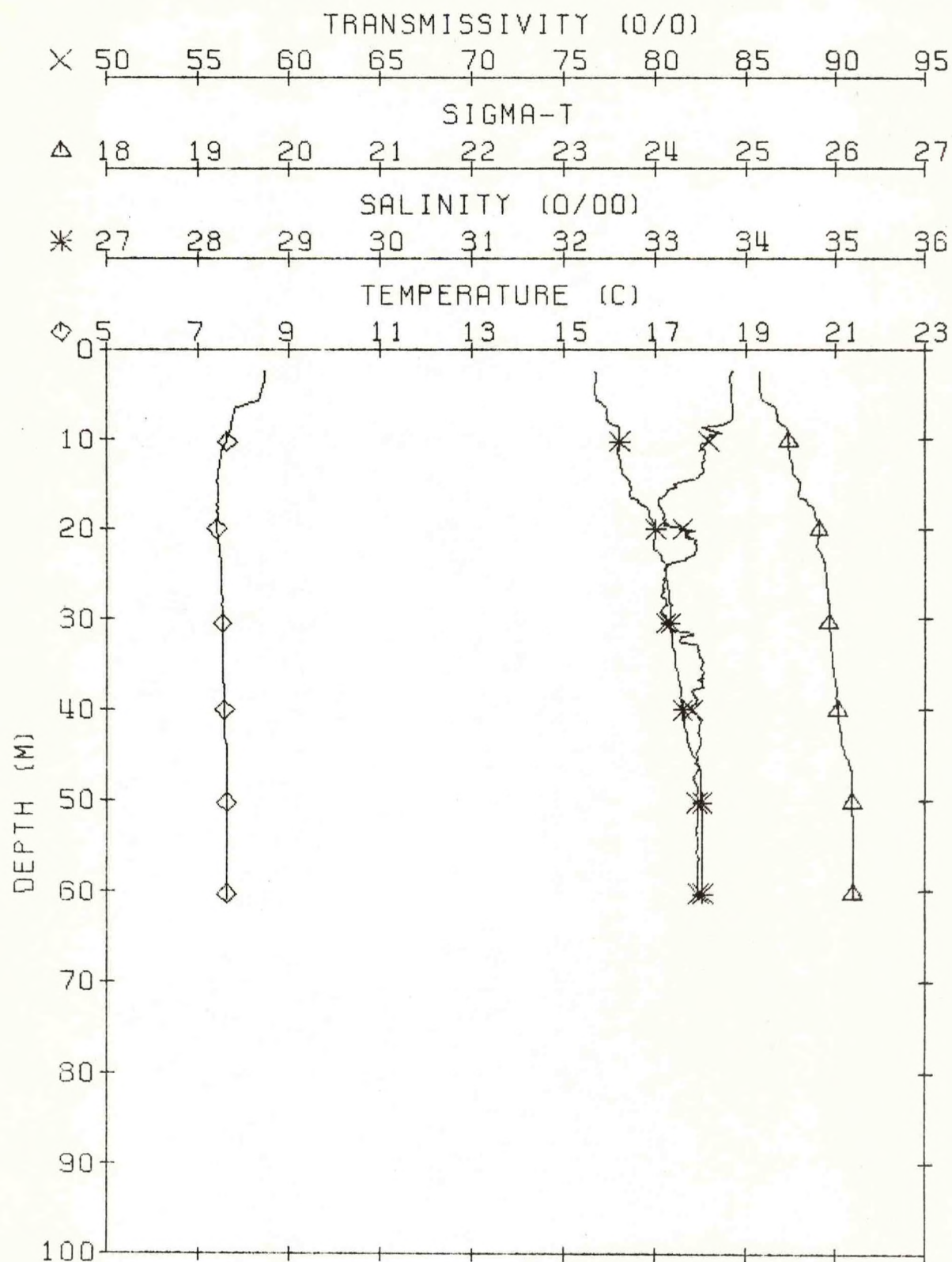
◇ 5 7 9 11 13 15 17 19 21 23



XWCC-08 STA. 90 LAT 39 32.9N; LONG 73 3.3W GMT 19.8 04/15/76
 DEPTH 64 AIR D/W 12.8/ BARO 22.5 VIS 7 CLD TYP/CVR /0
 WETHR 1 WIND DIR/SPD 21/13 SEA DIR/HT 00/0 SWELL DIR/HT 21/0

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	8.46	32.33	25.14	84.20	8.3	7.34	.00	.00	2.76	.07
2	8.46	32.33	25.14	84.20	8.3					
3	8.46	32.33	25.14	84.10	8.3					
4	8.42	32.33	25.14	84.10	8.3					
5	8.36	32.34	25.18	84.10	8.4					
6	8.03	32.41	25.32	84.20	8.3					
7	7.77	32.46	25.35	84.20	8.3					
8	7.73	32.49	25.39	84.00	8.3					
9	7.69	32.59	25.45	83.10	8.3					
10	7.63	32.60	25.46	82.80	8.3					
11	7.51	32.58	25.47	82.60	8.3					
12	7.48	32.60	25.50	82.70	8.3					
13	7.45	32.62	25.51	82.60	8.4					
14	7.42	32.65	25.56	82.40	8.4					
15	7.40	32.71	25.59	81.10	8.3					
16	7.41	32.71	25.57	80.50	8.3					
17	7.40	32.83	25.72	80.10	8.3					
18	7.40	32.92	25.76	80.40	8.3					
19	7.40	32.96	25.80	80.40	8.3					
20	7.40	32.99	25.80	81.50	8.3	7.08	.00	.07	2.61	.36
21	7.41	32.98	25.79	81.80	8.3					
22	7.44	32.97	25.79	82.20	8.3					
23	7.47	33.06	25.85	82.00	8.3					
24	7.48	33.10	25.88	80.70	8.3					
25	7.48	33.11	25.89	80.50	8.3					
26	7.50	33.12	25.90	80.40	8.3					
27	7.50	33.14	25.91	80.40	8.3					
28	7.51	33.15	25.93	80.50	8.3					
29	7.51	33.16	25.93	80.30	8.3					
30	7.51	33.16	25.92	80.50	8.3	6.67	.00	.07	3.73	.21
31	7.51	33.17	25.94	80.80	8.3					
32	7.51	33.18	25.94	81.60	8.3					
33	7.51	33.18	25.94	82.20	8.3					
34	7.52	33.21	25.96	82.40	8.3					
35	7.52	33.21	25.96	82.50	8.3					
36	7.52	33.23	25.98	82.60	8.3					
37	7.54	33.25	26.00	82.50	8.3					
38	7.55	33.28	26.00	82.00	8.3					
39	7.55	33.28	26.02	82.20	8.3					
40	7.56	33.29	26.03	82.00	8.3					
41	7.56	33.30	26.03	82.40	8.2					
42	7.56	33.32	26.06	82.40	8.1					
43	7.57	33.35	26.06	82.40	8.1					
44	7.61	33.37	26.09	82.40	8.1					
45	7.61	33.42	26.13	82.30	8.1					
46	7.61	33.46	26.16	82.30	8.1					
47	7.61	33.49	26.17	82.20	8.1					
48	7.61	33.49	26.17	82.20	8.1					
49	7.61	33.49	26.17	82.20	8.1					
50	7.61	33.50	26.18	82.30	8.1	5.88	.06	.00	3.34	.29
60	7.61	33.51	26.18	82.30	8.1	5.94	.02	.00	5.10	.40

KELEZ CRUISE XWCC-8 STATION 90 APR. 15, 1976



XWCC-08 STA. 91 LAT 39 28.2N; LONG 72 50.5W GMT 17.9 04/15/76
 DEPTH 62 AIR D/W 13.9/ BARO 23.0 VIS 7 CLD TYP/CVR X/4
 WETHR 1 WIND DIR/SPD 21/12 SEA DIR/HT 22/0 SWELL DIR/HT 00/0

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	8.06	33.05	25.75	84.00	8.3	7.42	.00	.00	4.42	.16
2	8.07	33.01	25.71	83.80	8.3					
3	8.01	33.01	25.73	83.60	8.3					
4	8.03	33.03	25.76	84.10	8.3					
5	8.03	33.05	25.27	84.10	8.3					
6	7.95	33.06	25.76	83.20	8.3					
7	7.89	33.04	25.78	82.60	8.3					
8	7.86	33.05	25.78	82.50	8.3					
9	7.86	33.05	25.79	82.60	8.3					
10	7.83	33.05	25.79	82.50	8.3	7.64	.04	.00	1.51	.14
11	7.67	33.04	25.81	82.30	8.3					
12	7.53	33.04	25.83	82.40	8.3					
13	7.50	33.09	25.87	82.60	8.3					
14	7.47	33.09	25.87	82.50	8.3					
15	7.46	33.08	25.86	82.40	8.3					
16	7.46	33.08	25.86	82.40	8.3					
17	7.44	33.10	25.88	82.70	8.3					
18	7.44	33.09	25.88	82.30	8.3					
19	7.44	33.07	25.86	82.30	8.3					
20	7.42	33.07	25.84	82.10	8.3	7.28	.04	.25	1.59	.18
21	7.39	33.05	25.86	82.20	8.2					
22	7.38	33.04	25.84	82.10	8.1					
23	7.39	33.07	25.85	82.40	8.1					
24	7.41	33.06	25.86	82.00	8.3					
25	7.41	33.05	25.85	82.10	8.3					
26	7.38	33.11	25.91	82.10	8.2					
27	7.44	33.17	25.96	82.10	8.1					
28	7.49	33.22	25.98	82.50	8.1					
29	7.53	33.28	26.02	82.10	8.1					
30	7.65	33.37	26.05	80.40	8.1	7.15	.07	.00	.65	.14
31	7.71	33.40	26.12	80.50	8.1					
32	7.77	33.44	26.11	82.80	8.1					
33	7.82	33.59	26.23	84.00	8.1					
34	7.84	33.62	26.24	84.00	8.1					
35	7.86	33.62	26.23	83.50	8.1					
36	7.86	33.62	26.23	82.80	8.1					
37	7.86	33.62	26.23	83.90	8.1					
38	7.86	33.62	26.24	82.90	8.1					
39	7.86	33.64	26.25	82.50	8.1					
40	7.86	33.64	26.25	83.30	8.1					
41	7.86	33.64	26.24	83.40	8.1					
42	7.88	33.63	26.25	84.00	8.1					
43	7.91	33.64	26.24	84.00	8.1					
44	7.91	33.64	26.24	84.00	8.1					
45	7.92	33.65	26.26	84.00	8.1					
46	7.96	33.67	26.26	84.00	8.1					
47	7.96	33.68	26.28	84.00	8.1					
48	8.00	33.70	26.27	84.00	8.1					
49	8.00	33.70	26.28	84.00	8.1					
50	8.01	33.67	26.24	83.60	8.1	5.85	.14	1.48	3.08	.40
60	8.12	33.68	26.25	83.60	8.1	5.84	.19	2.35	4.38	.45

KELEZ CRUISE XWCC-8 STATION 91 APR. 15, 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

