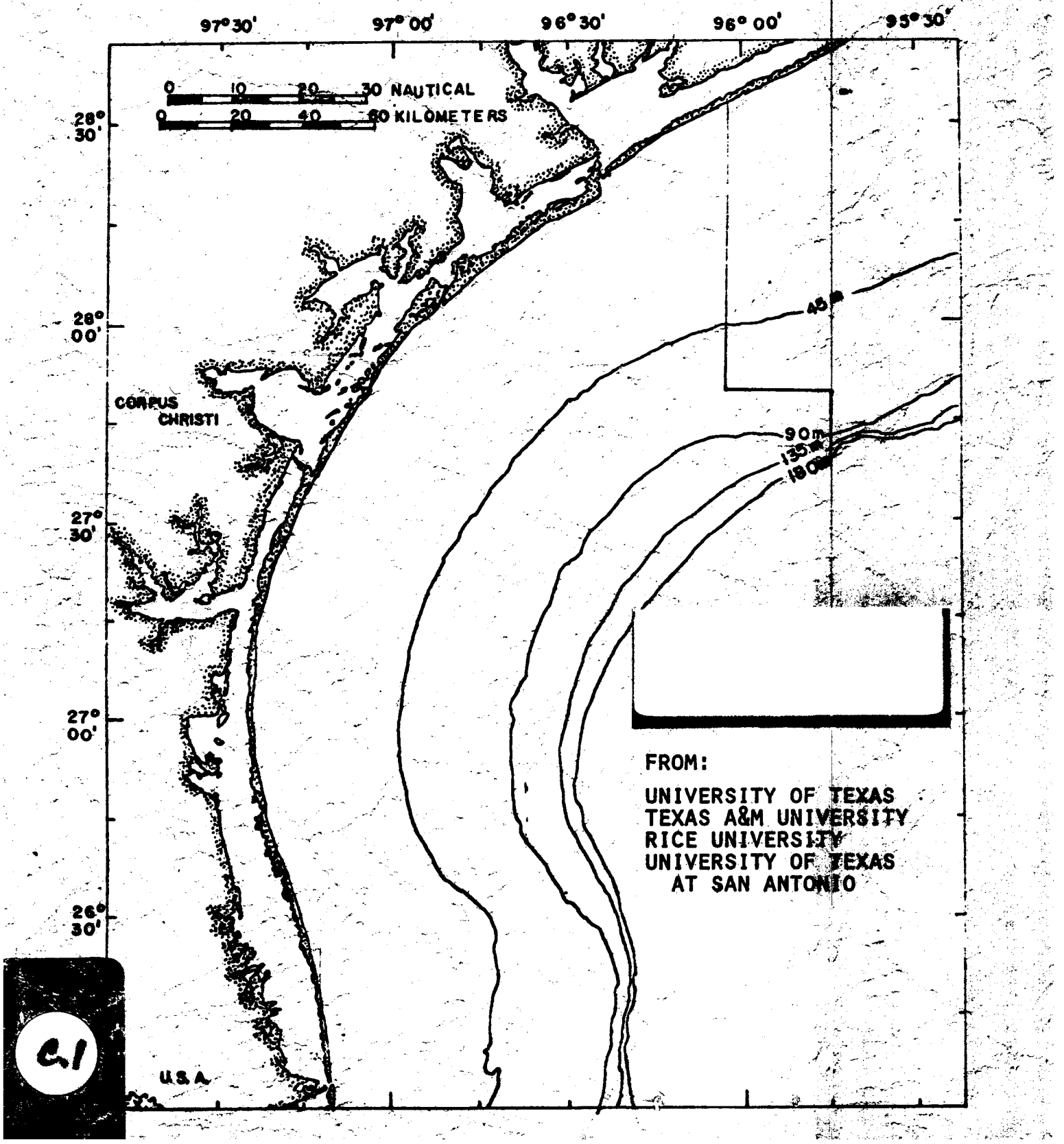
ENVIRONMENTAL STUDIES, SOUTH TEXAS OUTER CONTINENTAL SHELF, BIOLOGY AND CHEMISTRY



C.1

ENVIRONMENTAL STUDIES,

SOUTH TEXAS OUTER CONTINENTAL SHELF,

BIOLOGY AND CHEMISTRY

Submitted to:

The Bureau of Land Management
Washington, D. C.

by

The University of Texas Marine Science Institute
Port Aransas Marine Laboratory
Port Aransas, Texas 78373

Acting for and on behalf of
A Consortium Program
Conducted by:

Rice University
Texas A & M University
The University of Texas

FINAL REPORT
1976
VOLUME ~~III~~ V
APPENDICES A, B, C, D
CONTRACT AA550-CT6-17

September 30, 1977

CONTENTS

APPENDIX A

HYDROGRAPHIC DATA
STOCS-1976

APPENDIX A

Calibrated and computed hydrographic variables, 1976, are presented in the following tables. Depth is in meters, temperature (TEMP) is in degrees centigrade, salinity (SALIN) is in parts per thousand, Sigma-t is defined by (density -1) x 10^3 in gm/cm^3, specific volume anomaly (SVA) is in cm^3/gm, the dynamic height anomaly (DLTA D) is in dynamic-centimeters, the potential energy anomaly (POT EN) is in gm m^2 (sec^2) the speed of sound (SOUND VEL) is in m/sec, and the Brunt-Vaisala frequency (BV FRQ) is in cycles/hour.

HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT I
2/ 2/76 2310 CST SAMPLE CODE GNM

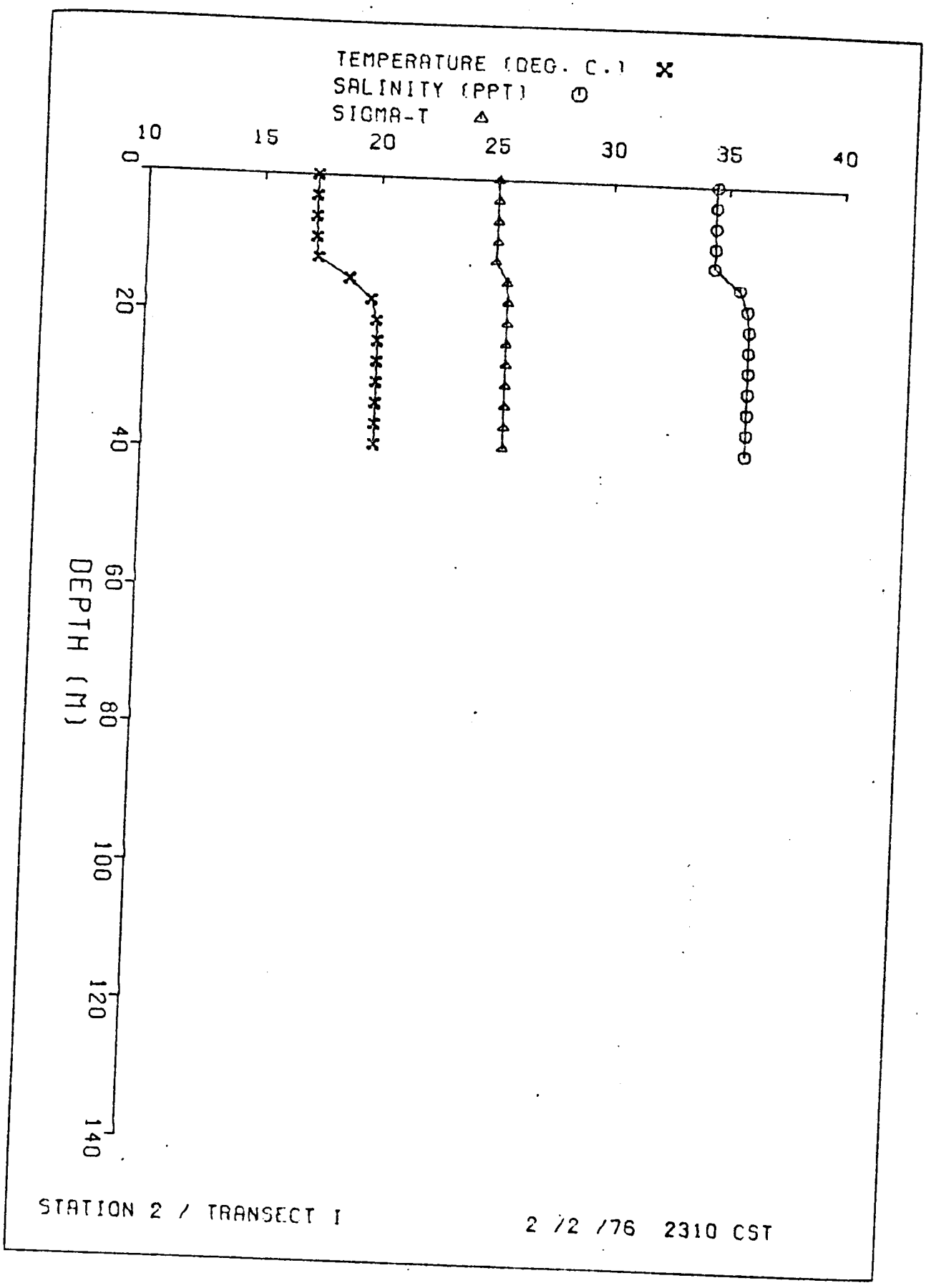
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	17.29	34.46	25.06	291.4	0.00	0.00	1513.8	17.2
3.0	17.26	34.46	25.06	291.1	.09	.00	1513.7	12.2
6.0	17.26	34.46	25.06	291.2	.18	.01	1513.8	3.1
9.0	17.29	34.47	25.06	291.3	.26	.01	1513.9	0.0
12.0	17.36	34.44	25.02	295.1	.35	.02	1514.1	98.5
15.0	18.76	35.56	25.53	246.7	.43	.03	1519.6	106.2
18.0	19.71	35.93	25.57	243.3	.51	.05	1522.7	31.3
21.0	19.96	36.03	25.58	242.5	.58	.06	1523.6	0.0
24.0	20.01	36.03	25.57	243.8	.65	.08	1523.8	0.0
27.0	20.01	36.04	25.58	243.2	.73	.10	1523.8	12.5
30.0	20.01	36.04	25.58	243.3	.80	.12	1523.9	0.0
33.0	20.01	36.04	25.58	243.4	.87	.14	1523.9	0.0
36.0	20.01	36.04	25.58	243.5	.94	.17	1524.0	0.0
39.0	20.01	36.03	25.57	244.4	1.02	.19	1524.0	0.0

HYDROGRAPHIC CAST DATA STATION 1 / TRANSECT I
2/ 3/76 835 CST SAMPLE CODE GLW

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	14.10	31.75	23.69	421.9	0.00	0.00	1500.5	17.2
3.0	14.14	31.77	23.69	421.6	.13	.00	1500.7	102.1
6.0	14.15	32.42	24.19	374.2	.25	.01	1501.6	160.1
9.0	16.63	34.10	24.94	303.4	.35	.02	1511.5	121.9
12.0	16.73	34.10	24.91	305.7	.44	.02	1511.8	69.6
15.0	17.00	34.52	25.17	281.2	.53	.04	1513.2	103.1

HYDROGRAPHIC CAST DATA STATION 4 / TRANSECT I
2/ 3/76 945 CST SAMPLE CODE JAA

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	14.18	31.74	23.66	424.4	0.00	0.00	1500.7	47.1
3.0	14.18	31.81	23.71	419.6	.13	.00	1500.9	158.1
6.0	15.38	33.65	24.87	309.3	.24	.01	1507.0	153.2
9.0	16.18	33.86	24.85	311.2	.33	.01	1509.8	0.0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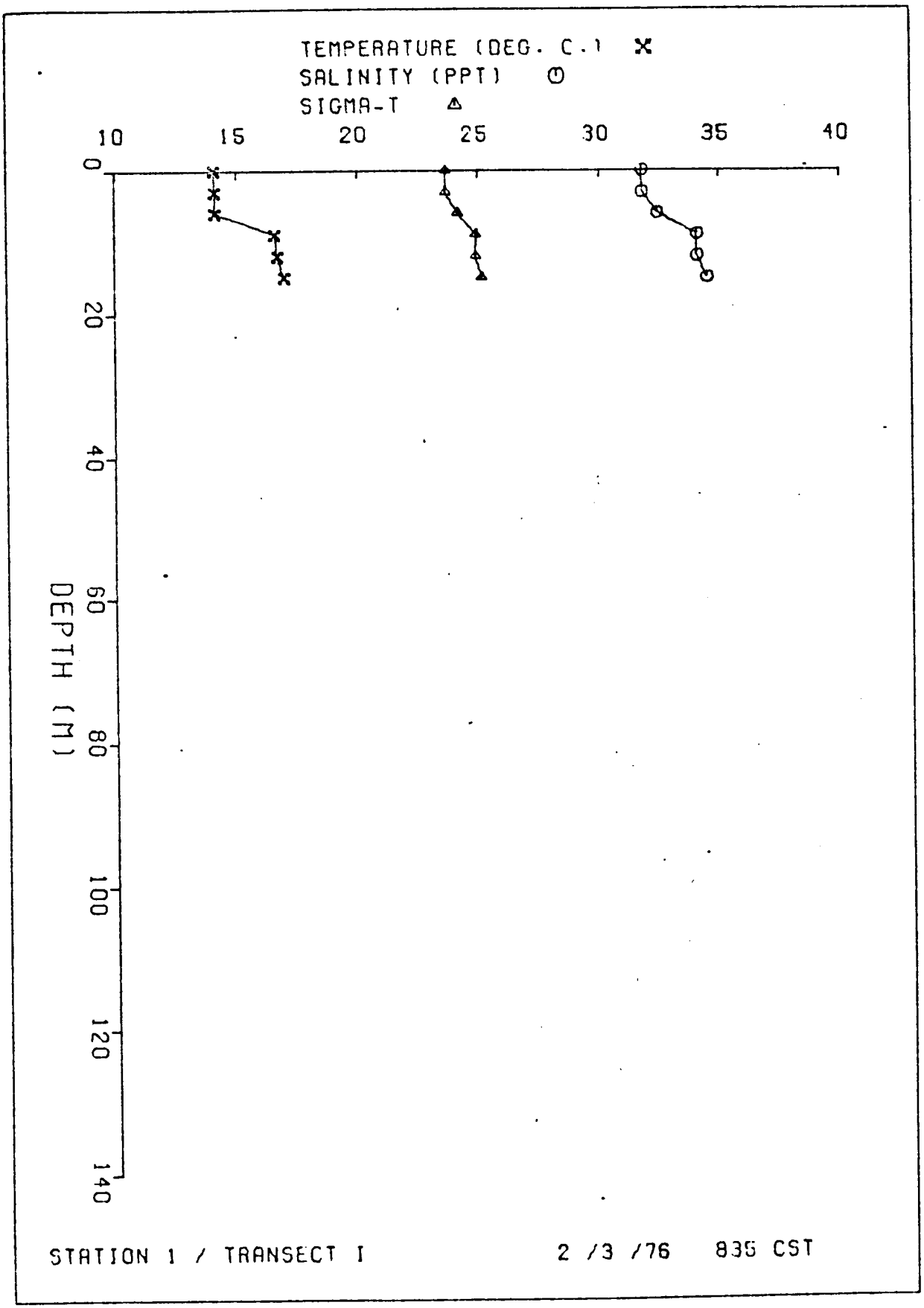
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 2 / TRANSECT I
2 /2 /76 2310 CST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SALINITY (PPT) O
SIGMA-T Δ
10
15
20
25
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35
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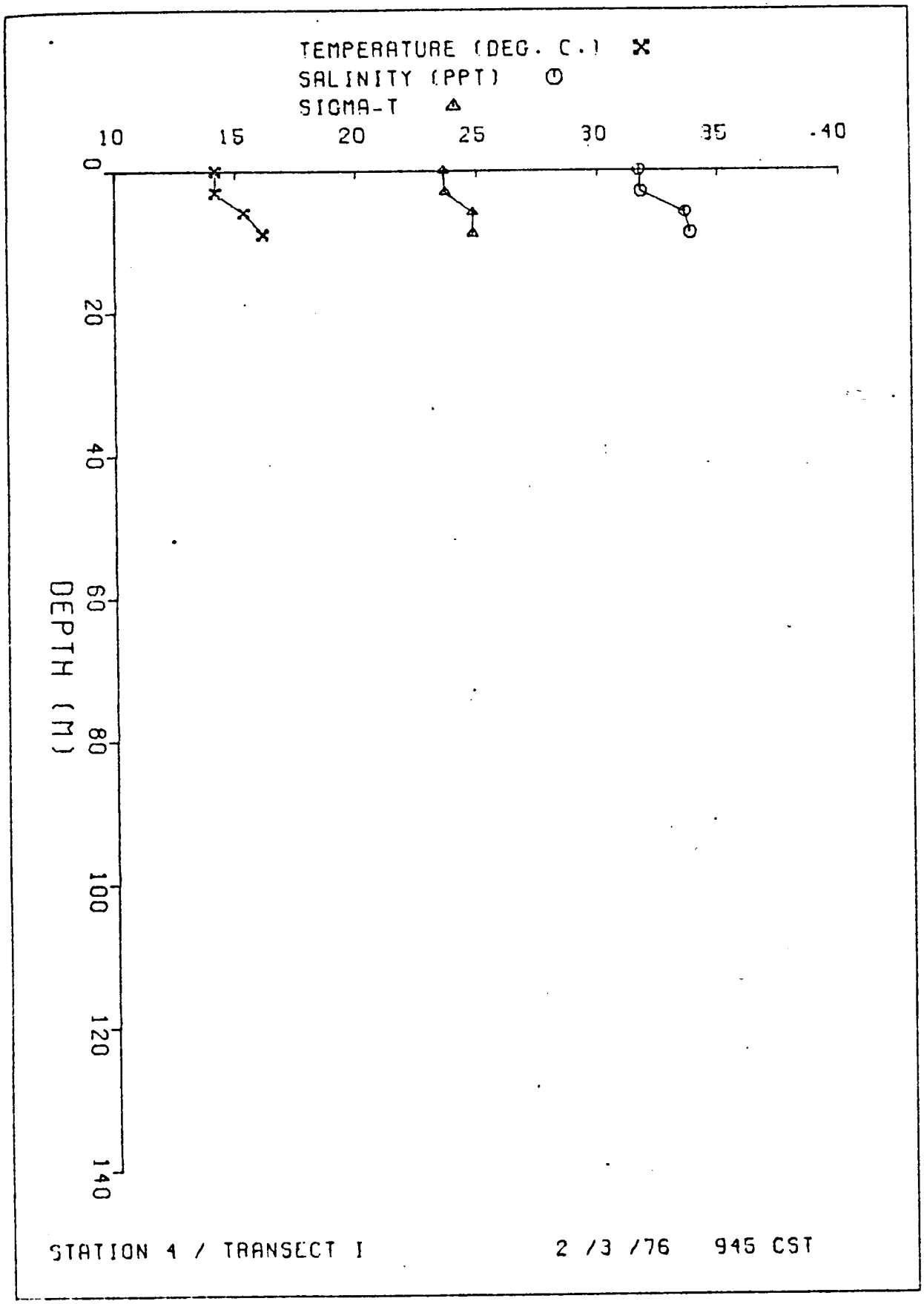
20
40
60
80
100
120
140
DEPTH (M)
STATION 1 / TRANSECT I
2 /3 /76 835 CST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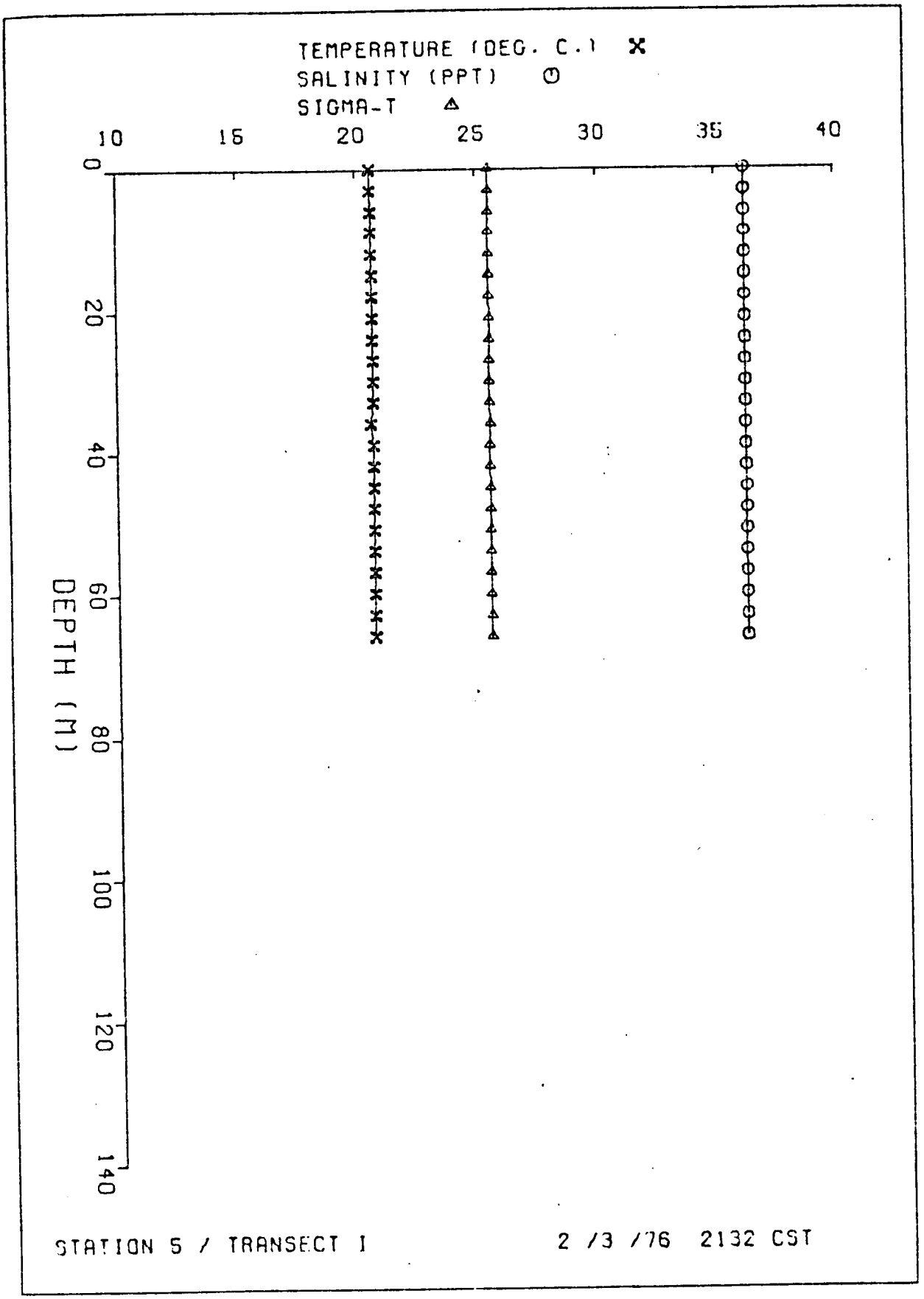
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 4 / TRANSECT I
2 /3 /76 945 CST

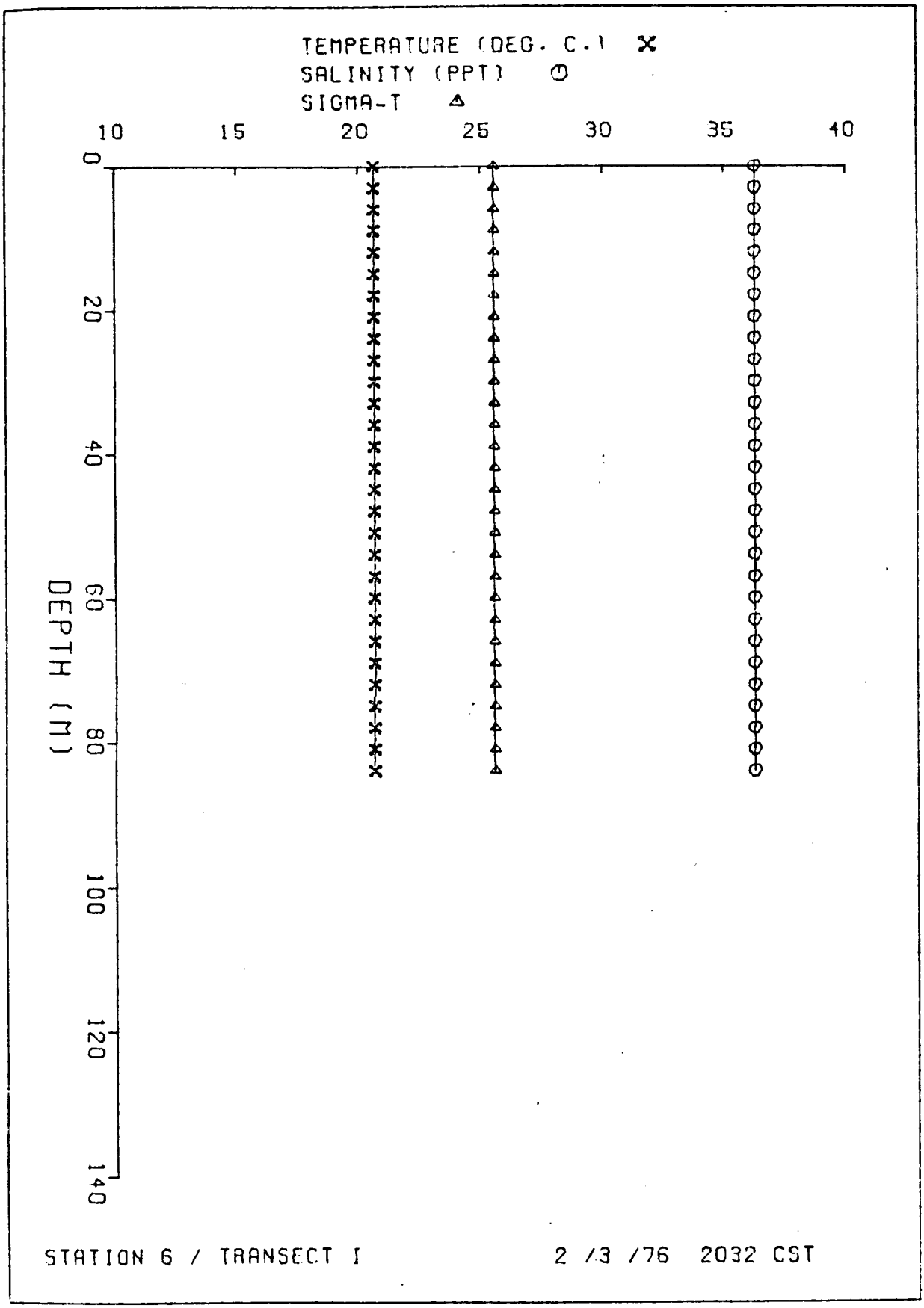
HYDROGRAPHIC CAST DATA STATION 5 / TRANSECT I
2/ 3/76 2132 CST SAMPLE CODE JAD

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	20.62	36.24	25.56	243.3	0.00	0.00	1525.3	0.0
3.0	20.62	36.24	25.56	243.7	.07	.00	1525.3	0.0
6.0	20.64	36.24	25.56	244.3	.15	.00	1525.4	0.0
9.0	20.65	36.24	25.55	244.7	.22	.01	1525.5	0.0
12.0	20.65	36.24	25.55	244.8	.29	.02	1525.5	0.0
15.0	20.66	36.24	25.55	245.1	.37	.03	1525.6	0.0
18.0	20.67	36.24	25.55	245.5	.44	.04	1525.7	10.1
21.0	20.67	36.25	25.56	244.9	.52	.06	1525.7	12.5
24.0	20.67	36.25	25.56	245.0	.59	.07	1525.8	0.0
27.0	20.69	36.25	25.55	245.6	.66	.09	1525.9	0.0
30.0	20.69	36.25	25.55	245.7	.74	.11	1525.9	0.0
33.0	20.69	36.25	25.55	245.9	.81	.14	1526.0	23.6
36.0	20.59	36.25	25.58	243.4	.88	.16	1525.8	0.0
39.0	20.69	36.25	25.55	246.1	.96	.19	1526.1	0.0
42.0	20.69	36.25	25.55	246.2	1.03	.22	1526.1	12.5
45.0	20.69	36.26	25.56	245.6	1.11	.26	1526.2	12.5
48.0	20.69	36.26	25.56	245.7	1.18	.29	1526.3	0.0
51.0	20.69	36.26	25.56	245.8	1.25	.33	1526.3	0.0
54.0	20.69	36.26	25.56	245.9	1.33	.37	1526.4	12.5
57.0	20.69	36.27	25.57	245.3	1.40	.41	1526.4	12.5
60.0	20.69	36.27	25.57	245.4	1.48	.45	1526.5	12.5
63.0	20.69	36.28	25.57	244.8	1.55	.50	1526.5	12.5
66.0	20.69	36.28	25.57	244.9	1.62	.55	1526.6	0.0


TEMPERATURE (DEG. C.) X
SALINITY (PPT) O
SIGMA-T Δ
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 5 / TRANSECT I
2 /3 /76 2132 CST

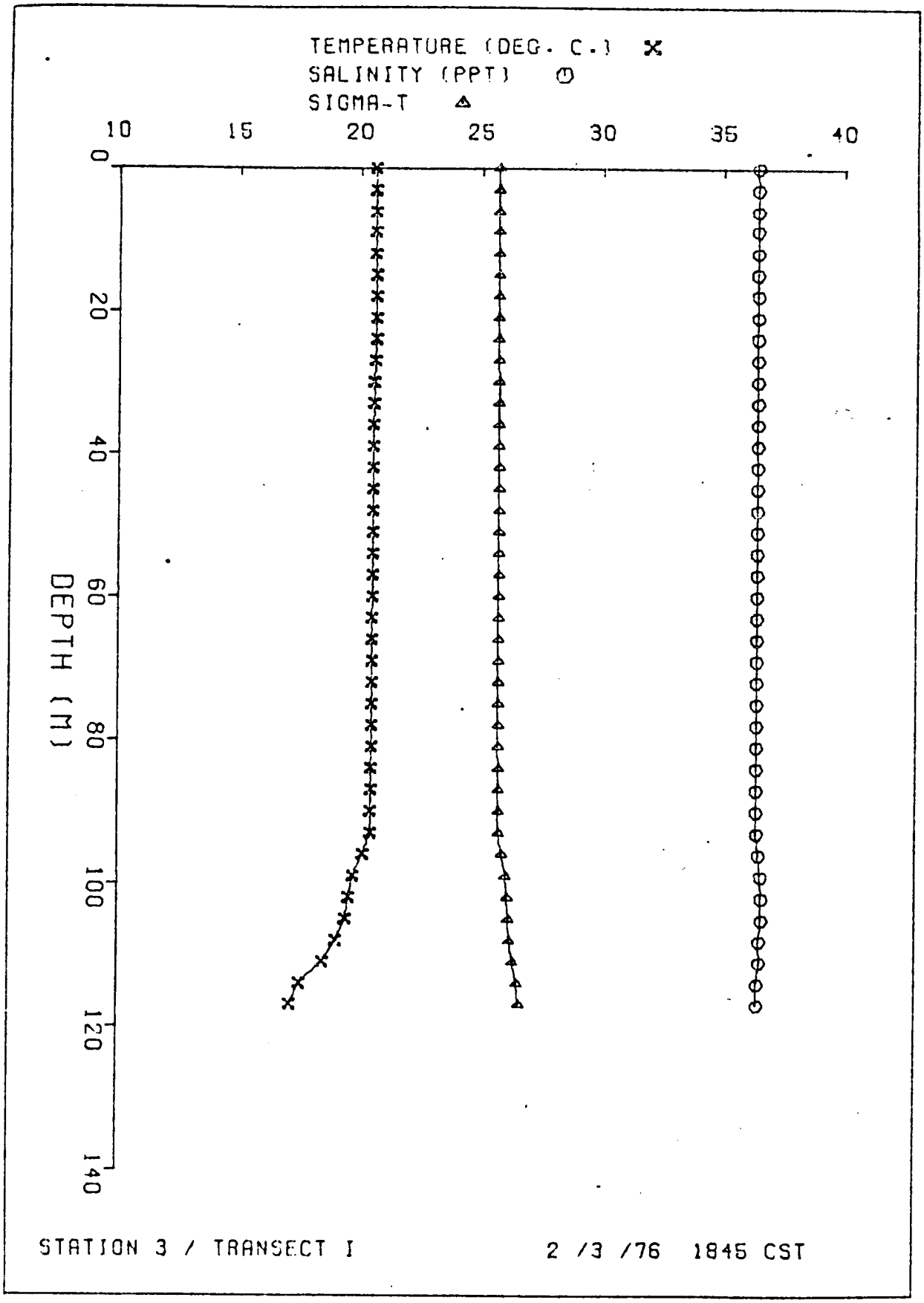
HYDROGRAPHIC CAST DATA STATION 6 / TRANSECT I
2/ 3/76 2032 CST SAMPLE CODE JAG

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	20.65	36.27	25.58	241.7	0.00	0.00	1525.4	0.0
3.0	20.65	36.27	25.58	242.0	.07	.00	1525.4	0.0
6.0	20.65	36.27	25.58	242.2	.15	.00	1525.5	0.0
9.0	20.65	36.27	25.58	242.3	.22	.01	1525.5	0.0
12.0	20.65	36.27	25.58	242.4	.29	.02	1525.6	0.0
15.0	20.65	36.27	25.58	242.5	.36	.03	1525.6	0.0
18.0	20.65	36.27	25.58	242.6	.44	.04	1525.7	0.0
21.0	20.65	36.27	25.58	242.7	.51	.05	1525.7	0.0
24.0	20.65	36.27	25.58	242.8	.58	.07	1525.8	0.0
27.0	20.65	36.27	25.58	242.9	.66	.09	1525.8	0.0
30.0	20.65	36.27	25.58	243.1	.73	.11	1525.9	0.0
33.0	20.65	36.27	25.58	243.2	.80	.14	1525.9	0.0
36.0	20.65	36.27	25.58	243.3	.88	.16	1526.0	0.0
39.0	20.65	36.27	25.58	243.4	.95	.19	1526.0	0.0
42.0	20.65	36.27	25.58	243.5	1.02	.22	1526.1	0.0
45.0	20.65	36.27	25.58	243.6	1.10	.25	1526.1	0.0
48.0	20.65	36.27	25.58	243.7	1.17	.29	1526.2	0.0
51.0	20.65	36.27	25.58	243.8	1.24	.33	1526.2	0.0
54.0	20.65	36.27	25.58	244.0	1.32	.36	1526.3	0.0
57.0	20.65	36.27	25.58	244.1	1.39	.41	1526.3	0.0
60.0	20.65	36.27	25.58	244.2	1.46	.45	1526.4	0.0
63.0	20.65	36.27	25.58	244.3	1.54	.50	1526.4	0.0
66.0	20.65	36.27	25.58	244.4	1.61	.55	1526.5	0.0
69.0	20.65	36.27	25.58	244.5	1.68	.60	1526.5	0.0
72.0	20.65	36.27	25.58	244.6	1.76	.65	1526.6	10.6
75.0	20.63	36.27	25.58	244.2	1.83	.71	1526.5	10.6
78.0	20.63	36.27	25.58	244.3	1.90	.76	1526.6	0.0
81.0	20.63	36.27	25.58	244.4	1.98	.82	1526.6	0.0
84.0	20.63	36.27	25.58	244.6	2.05	.89	1526.7	0.0


TEMPERATURE (DEG. C.) X
SALINITY (PPT) O
SIGMA-T Δ
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 6 / TRANSECT I
2 /3 /76 2032 CST

HYDROGRAPHIC CAST DATA STATION 3 / TRANSECT I
2/ 3/76 1845 CST SAMPLE CODE GPF

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	20,60	36,38	25,68	232,4	0,00	0,00	1525,4	17,7
3,0	20,60	36,39	25,68	232,1	,07	,00	1525,4	12,5
6,0	20,60	36,39	25,68	232,2	,14	,00	1525,5	0,0
9,0	20,60	36,39	25,68	232,3	,21	,01	1525,5	0,0
12,0	20,60	36,39	25,68	232,4	,28	,02	1525,6	0,0
15,0	20,63	36,39	25,68	233,3	,35	,03	1525,7	0,0
18,0	20,63	36,40	25,68	232,7	,42	,04	1525,8	12,5
21,0	20,63	36,40	25,68	232,8	,49	,05	1525,8	0,0
24,0	20,63	36,40	25,68	232,9	,56	,07	1525,9	18,0
27,0	20,60	36,41	25,70	231,5	,63	,09	1525,8	24,5
30,0	20,55	36,41	25,71	230,4	,70	,11	1525,8	16,7
33,0	20,55	36,41	25,71	230,5	,77	,13	1525,8	10,5
36,0	20,53	36,41	25,72	230,1	,84	,15	1525,8	10,5
39,0	20,53	36,41	25,72	230,2	,91	,18	1525,9	12,5
42,0	20,53	36,42	25,72	229,6	,98	,21	1525,9	12,5
45,0	20,53	36,42	25,72	229,7	1,05	,24	1526,0	0,0
48,0	20,53	36,42	25,72	229,8	1,11	,27	1526,0	0,0
51,0	20,53	36,42	25,72	229,9	1,18	,31	1526,1	0,0
54,0	20,53	36,42	25,72	230,0	1,25	,35	1526,1	0,0
57,0	20,53	36,42	25,72	230,1	1,32	,39	1526,2	0,0
60,0	20,53	36,42	25,72	230,2	1,39	,43	1526,2	12,9
63,0	20,50	36,42	25,73	229,6	1,46	,47	1526,2	12,9
66,0	20,50	36,42	25,73	229,7	1,53	,52	1526,2	0,0
69,0	20,50	36,42	25,73	229,8	1,60	,56	1526,3	0,0
72,0	20,50	36,42	25,73	229,9	1,67	,61	1526,3	0,0
75,0	20,50	36,42	25,73	230,0	1,74	,67	1526,4	0,0
78,0	20,50	36,42	25,73	230,1	1,81	,72	1526,4	0,0
81,0	20,50	36,42	25,73	230,3	1,88	,78	1526,5	10,5
84,0	20,48	36,42	25,74	229,9	1,94	,84	1526,5	10,5
87,0	20,48	36,42	25,74	230,0	2,01	,90	1526,5	7,4
90,0	20,47	36,42	25,74	229,8	2,08	,96	1526,5	19,2
93,0	20,47	36,44	25,76	228,5	2,15	1,02	1526,6	57,7
96,0	20,15	36,52	25,90	214,6	2,22	1,09	1525,9	81,3
99,0	19,75	36,61	26,08	198,1	2,28	1,15	1525,0	70,6
102,0	19,58	36,64	26,15	191,8	2,34	1,21	1524,6	47,4
105,0	19,45	36,65	26,19	188,0	2,40	1,27	1524,3	39,7
108,0	19,05	36,56	26,22	184,7	2,45	1,33	1523,1	61,4
111,0	18,50	36,57	26,37	170,7	2,51	1,39	1521,6	79,6
114,0	17,55	36,47	26,53	155,4	2,56	1,45	1518,8	72,8
117,0	17,15	36,47	26,63	146,3	2,60	1,50	1517,7	63,3

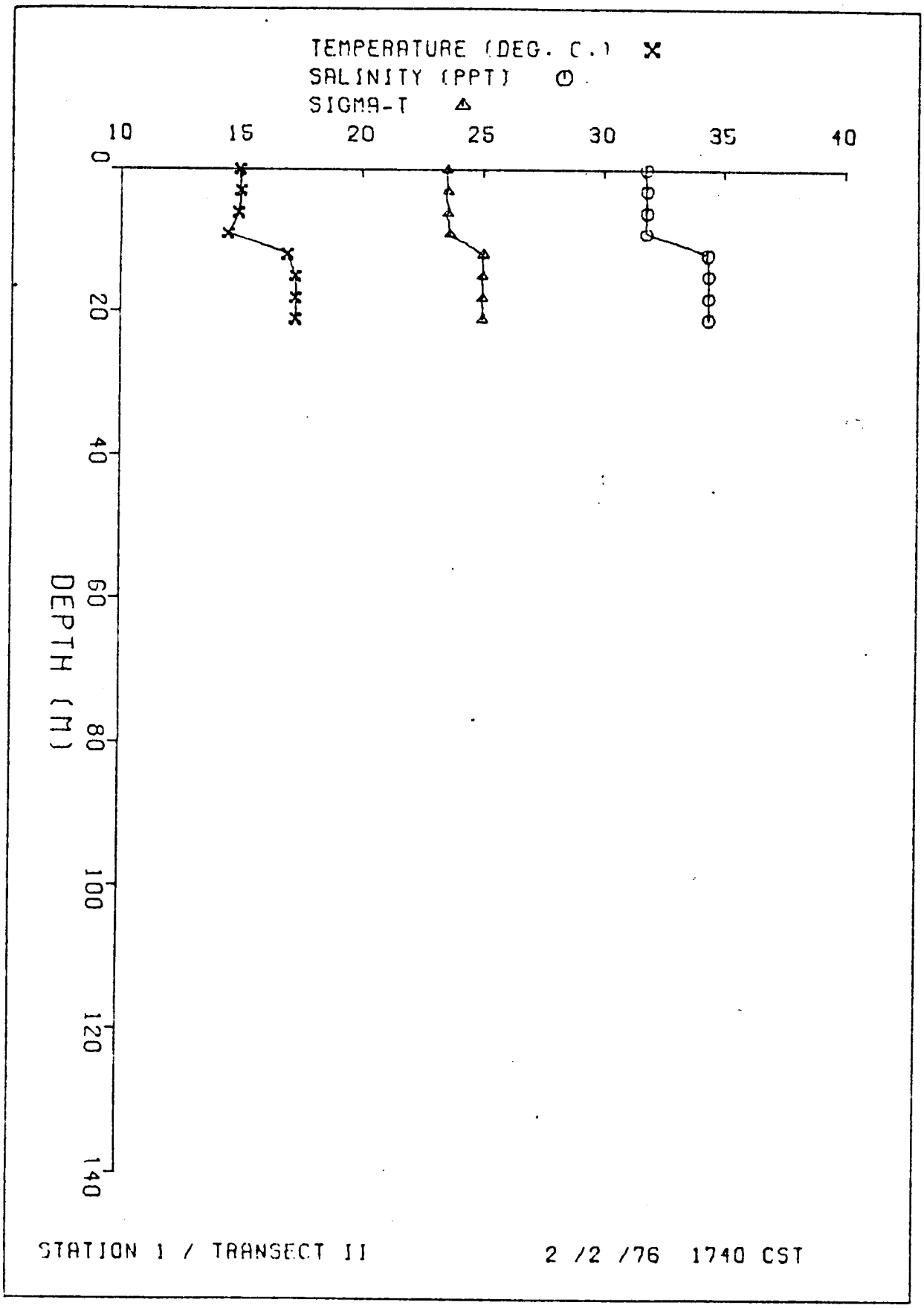

TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 3 / TRANSECT I
2 /3 /76 1845 CST

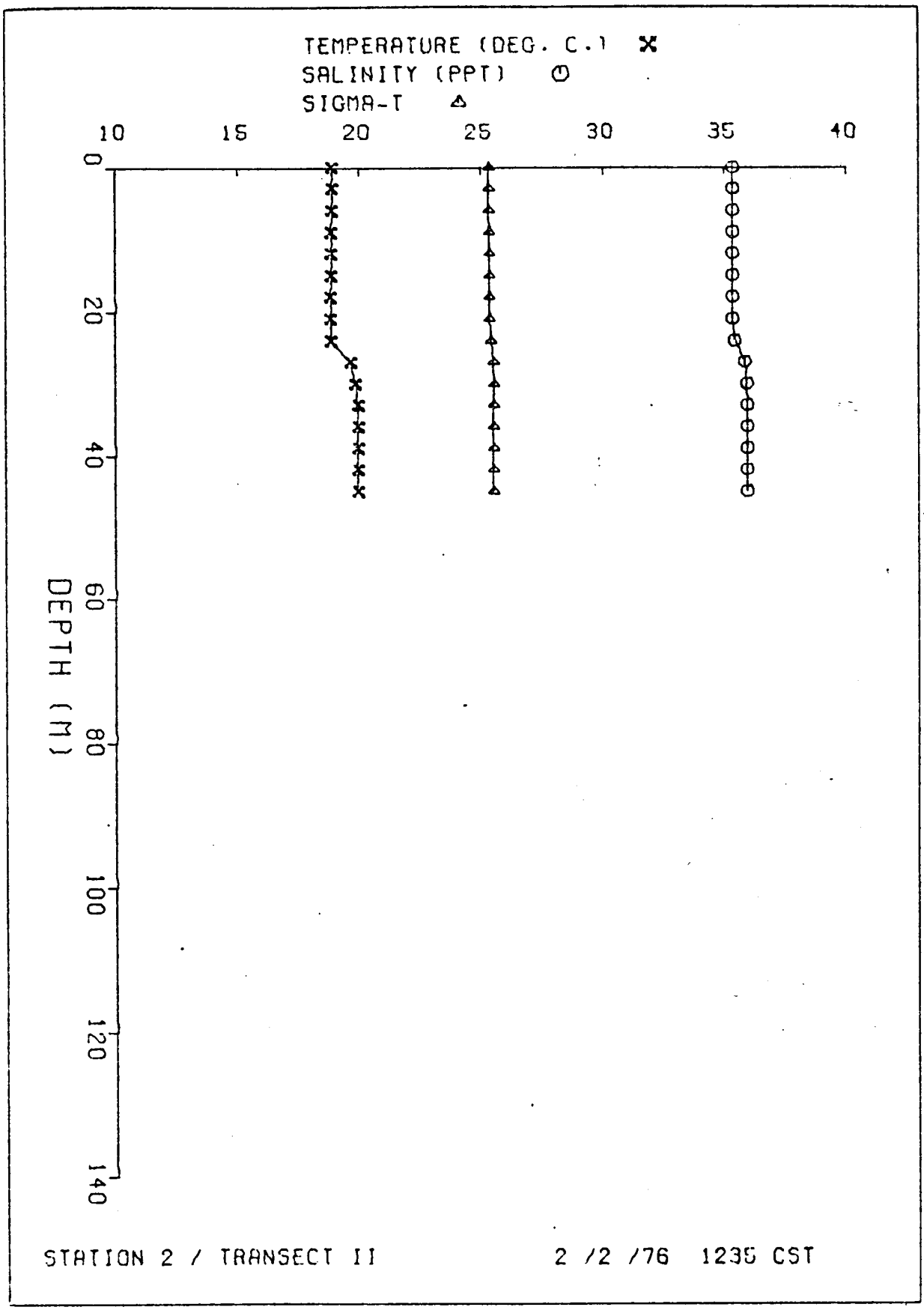
HYDROGRAPHIC CAST DATA STATION 1 / TRANSECT-II
2/ 2/76 1740 CST SAMPLE CODE GRI

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	14.90	31.72	23.49	440.2	0.00	0.00	1503.1	22.6
3.0	14.95	31.75	23.51	439.3	.13	.00	1503.3	26.4
6.0	14.85	31.75	23.53	437.4	.26	.01	1503.0	43.8
9.0	14.40	31.72	23.60	430.6	.39	.02	1501.6	174.3
12.0	16.90	34.27	25.00	297.2	.50	.03	1512.6	167.6
15.0	17.22	34.32	24.96	300.9	.59	.04	1513.6	0.0
18.0	17.22	34.32	24.96	301.0	.68	.06	1513.7	0.0
21.0	17.22	34.32	24.96	301.0	.77	.08	1513.7	0.0

HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT II
2/ 2/76 1235 CST SAMPLE CODE GSZ

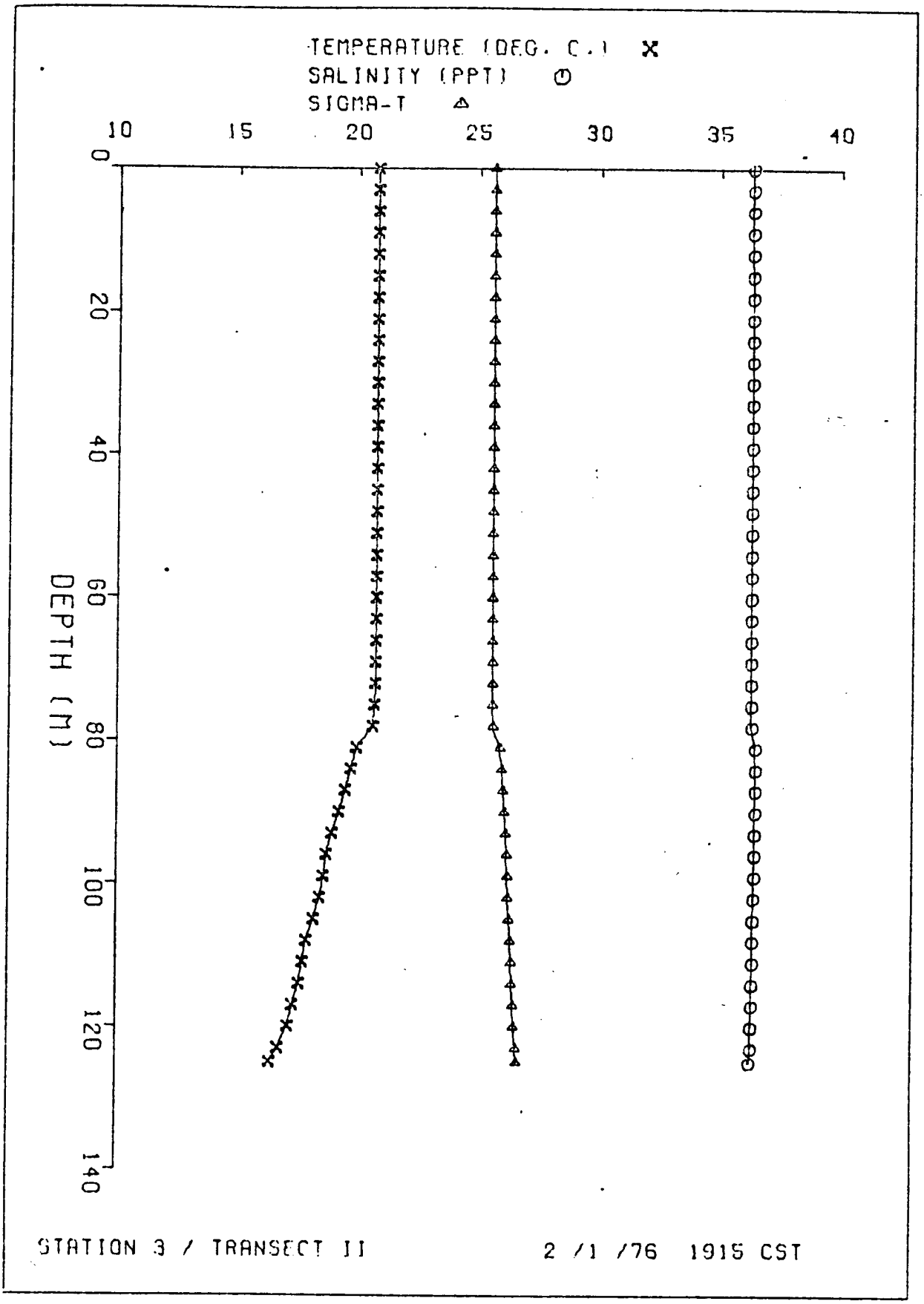
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	18.89	35.35	25.34	264.6	0.00	0.00	1519.5	0.0
3.0	18.89	35.35	25.34	265.0	.08	.00	1519.5	10.2
6.0	18.87	35.35	25.34	264.6	.16	.00	1519.5	16.2
9.0	18.84	35.35	25.35	264.0	.24	.01	1519.5	12.5
12.0	18.84	35.35	25.35	264.1	.32	.02	1519.5	0.0
15.0	18.84	35.35	25.35	264.2	.40	.03	1519.6	12.5
18.0	18.81	35.35	25.36	263.6	.48	.04	1519.5	12.5
21.0	18.81	35.35	25.36	263.7	.56	.06	1519.6	35.5
24.0	18.84	35.44	25.42	258.0	.63	.08	1519.8	58.7
27.0	19.64	35.85	25.52	248.0	.71	.10	1522.6	48.6
30.0	19.84	35.93	25.53	247.3	.79	.12	1523.3	0.0
33.0	19.94	35.95	25.52	248.5	.86	.14	1523.6	0.0
36.0	19.94	35.95	25.52	248.6	.93	.17	1523.7	0.0
39.0	19.94	35.95	25.52	248.7	1.01	.20	1523.7	0.0
42.0	19.94	35.95	25.52	248.8	1.08	.23	1523.8	0.0
45.0	19.94	35.95	25.52	248.9	1.16	.26	1523.8	0.0


TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 1 / TRANSECT II
2 /2 /76 1740 CST


TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 2 / TRANSECT II
2 /2 /76 1235 CST

HYDROGRAPHIC CAST DATA STATION 3 / TRANSECT II
2/ 1/76 1915 CST SAMPLE CODE GUS

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	20.75	36.32	25.59	240.8	0.00	0.00	1525.7	0.0
3.0	20.75	36.32	25.59	241.1	.07	.00	1525.7	0.0
6.0	20.75	36.32	25.59	241.3	.15	.00	1525.8	0.0
9.0	20.75	36.32	25.59	241.4	.22	.01	1525.8	0.0
12.0	20.75	36.32	25.59	241.5	.29	.02	1525.9	12.5
15.0	20.75	36.33	25.60	240.9	.36	.03	1526.0	12.5
18.0	20.75	36.33	25.60	241.0	.44	.04	1526.0	0.0
21.0	20.75	36.33	25.60	241.1	.51	.05	1526.1	0.0
24.0	20.75	36.33	25.60	241.2	.58	.07	1526.1	0.0
27.0	20.75	36.33	25.60	241.3	.65	.09	1526.2	0.0
30.0	20.75	36.33	25.60	241.4	.73	.11	1526.2	0.0
33.0	20.75	36.33	25.60	241.6	.80	.14	1526.2	0.0
36.0	20.75	36.33	25.60	241.7	.87	.16	1526.3	0.0
39.0	20.75	36.33	25.60	241.8	.94	.19	1526.3	0.0
42.0	20.75	36.33	25.60	241.9	1.02	.22	1526.4	0.0
45.0	20.75	36.33	25.60	242.0	1.09	.25	1526.4	0.0
48.0	20.75	36.33	25.60	242.1	1.16	.29	1526.5	0.0
51.0	20.75	36.33	25.60	242.2	1.23	.32	1526.5	0.0
54.0	20.75	36.33	25.60	242.3	1.31	.36	1526.6	0.0
57.0	20.75	36.33	25.60	242.5	1.38	.40	1526.6	0.0
60.0	20.75	36.33	25.60	242.6	1.45	.45	1526.7	0.0
63.0	20.75	36.33	25.60	242.7	1.53	.49	1526.7	0.0
66.0	20.75	36.33	25.60	242.8	1.60	.54	1526.8	10.6
69.0	20.73	36.33	25.60	242.4	1.67	.59	1526.8	10.6
72.0	20.73	36.33	25.60	242.5	1.75	.65	1526.8	16.4
75.0	20.71	36.34	25.61	241.4	1.82	.70	1526.8	29.5
78.0	20.63	36.35	25.64	238.7	1.89	.76	1526.7	81.9
81.0	19.95	36.50	25.94	210.6	1.96	.81	1525.1	87.2
84.0	19.73	36.52	26.01	203.7	2.02	.86	1524.6	50.9
87.0	19.50	36.51	26.07	198.8	2.08	.92	1524.0	48.7
90.0	19.23	36.50	26.13	192.9	2.14	.97	1523.2	51.2
93.0	18.95	36.49	26.19	186.9	2.20	1.03	1522.5	48.3
96.0	18.73	36.48	26.24	182.4	2.25	1.08	1521.9	39.0
99.0	18.60	36.47	26.27	180.0	2.31	1.13	1521.6	31.5
102.0	18.45	36.45	26.29	178.0	2.36	1.19	1521.2	38.0
105.0	18.20	36.43	26.34	173.5	2.41	1.25	1520.5	48.6
108.0	17.90	36.42	26.40	167.2	2.47	1.30	1519.7	46.3
111.0	17.75	36.42	26.44	163.8	2.52	1.36	1519.3	34.7
114.0	17.60	36.40	26.46	161.8	2.56	1.41	1518.9	39.3
117.0	17.35	36.39	26.52	156.8	2.61	1.47	1518.2	42.2
120.0	17.15	36.37	26.55	153.8	2.66	1.53	1517.6	49.9
123.0	16.75	36.36	26.64	145.4	2.70	1.58	1516.5	52.0
125.0	16.40	36.29	26.67	142.7	2.73	1.62	1515.3	42.3

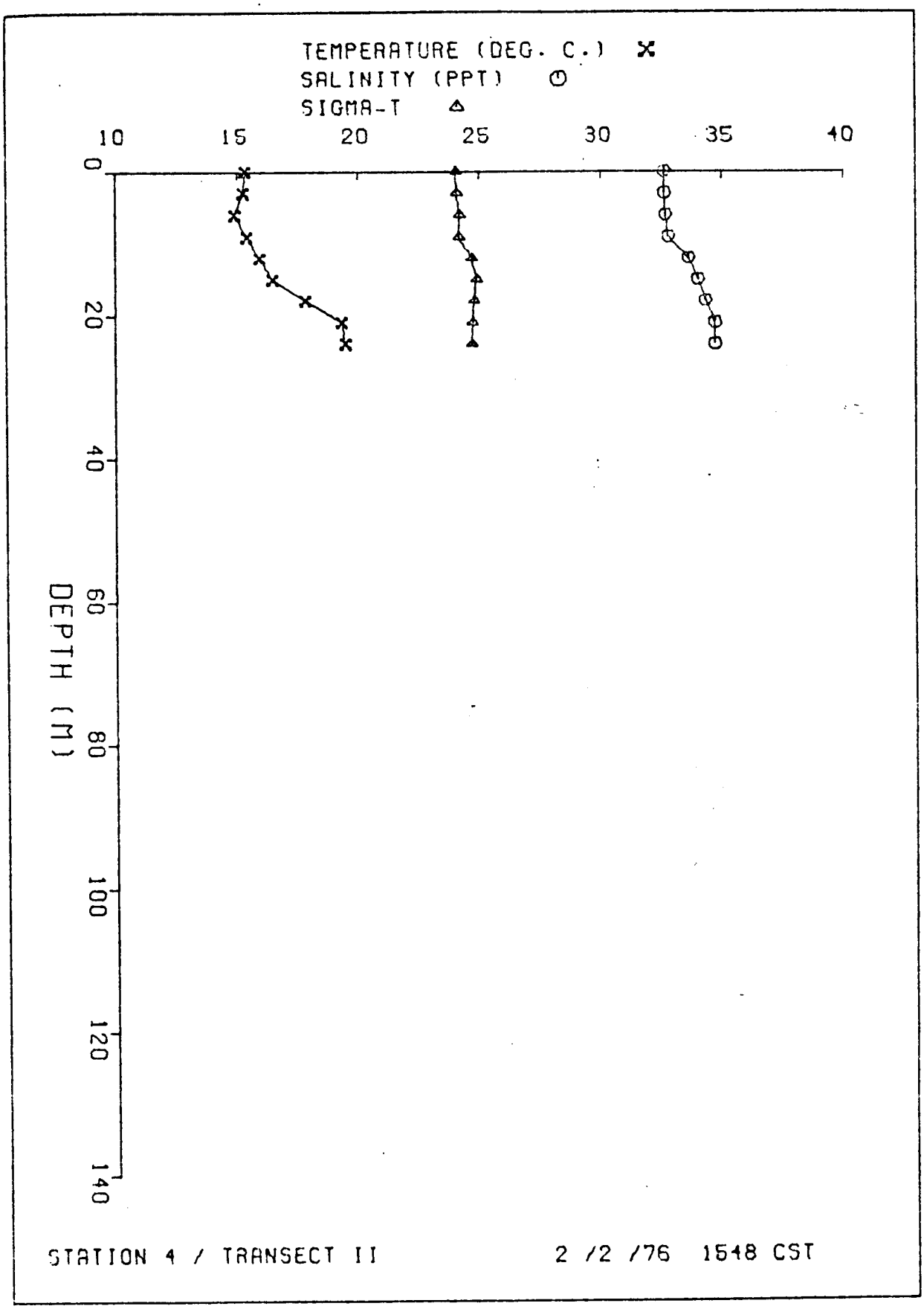

TEMPERATURE (DEG. C.) X
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 3 / TRANSECT II
2 /1 /76 1915 CST

HYDROGRAPHIC CAST DATA STATION 4 / TRANSECT II
2/ 2/76 1548 CST SAMPLE CODE JAJ

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	15,36	32,58	24,05	387,1	0,00	0,00	1505,6	32,2
3,0	15,28	32,59	24,08	385,0	,12	,00	1505,4	53,6
6,0	14,93	32,64	24,19	374,2	,23	,01	1504,4	43,1
9,0	15,43	32,75	24,17	376,6	,34	,02	1506,1	102,0
12,0	15,95	33,59	24,69	326,3	,45	,03	1508,8	121,3
15,0	16,48	33,99	24,88	308,8	,54	,04	1511,0	44,1
18,0	17,83	34,29	24,79	317,6	,64	,06	1515,4	0,0
21,0	19,33	34,69	24,72	324,4	,73	,08	1520,3	0,0
24,0	19,46	34,69	24,69	327,7	,83	,10	1520,7	0,0

HYDROGRAPHIC CAST DATA STATION 5 / TRANSECT II
2/ 2/76 1035 CST SAMPLE CODE JAM

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	20,68	36,22	25,53	246,4	0,00	0,00	1525,4	0,0
3,0	20,68	36,22	25,53	246,8	,07	,00	1525,4	0,0
6,0	20,68	36,22	25,53	246,9	,15	,00	1525,5	0,0
9,0	20,68	36,22	25,53	247,0	,22	,01	1525,5	0,0
12,0	20,68	36,22	25,53	247,1	,30	,02	1525,6	0,0
15,0	20,68	36,22	25,53	247,2	,37	,03	1525,6	0,0
18,0	20,68	36,22	25,53	247,4	,45	,04	1525,7	0,0
21,0	20,68	36,22	25,53	247,5	,52	,06	1525,7	0,0
24,0	20,68	36,22	25,53	247,6	,59	,07	1525,8	0,0
27,0	20,68	36,22	25,53	247,7	,67	,09	1525,8	0,0
30,0	20,68	36,22	25,53	247,8	,74	,11	1525,9	0,0
33,0	20,68	36,22	25,53	247,9	,82	,14	1525,9	0,0
36,0	20,68	36,22	25,53	248,0	,89	,16	1526,0	0,0
39,0	20,68	36,22	25,53	248,1	,97	,19	1526,0	0,0
42,0	20,68	36,22	25,53	248,3	1,04	,22	1526,1	0,0
45,0	20,68	36,22	25,53	248,4	1,12	,26	1526,1	0,0
48,0	20,68	36,22	25,53	248,5	1,19	,29	1526,2	0,0
51,0	20,68	36,22	25,53	248,6	1,27	,33	1526,2	0,0
54,0	20,68	36,22	25,53	248,7	1,34	,37	1526,3	0,0
57,0	20,68	36,22	25,53	248,8	1,42	,41	1526,3	0,0
60,0	20,68	36,22	25,53	248,9	1,49	,46	1526,4	0,0
63,0	20,68	36,22	25,53	249,0	1,57	,51	1526,4	0,0
66,0	20,68	36,22	25,53	249,2	1,64	,56	1526,5	0,0


TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
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0
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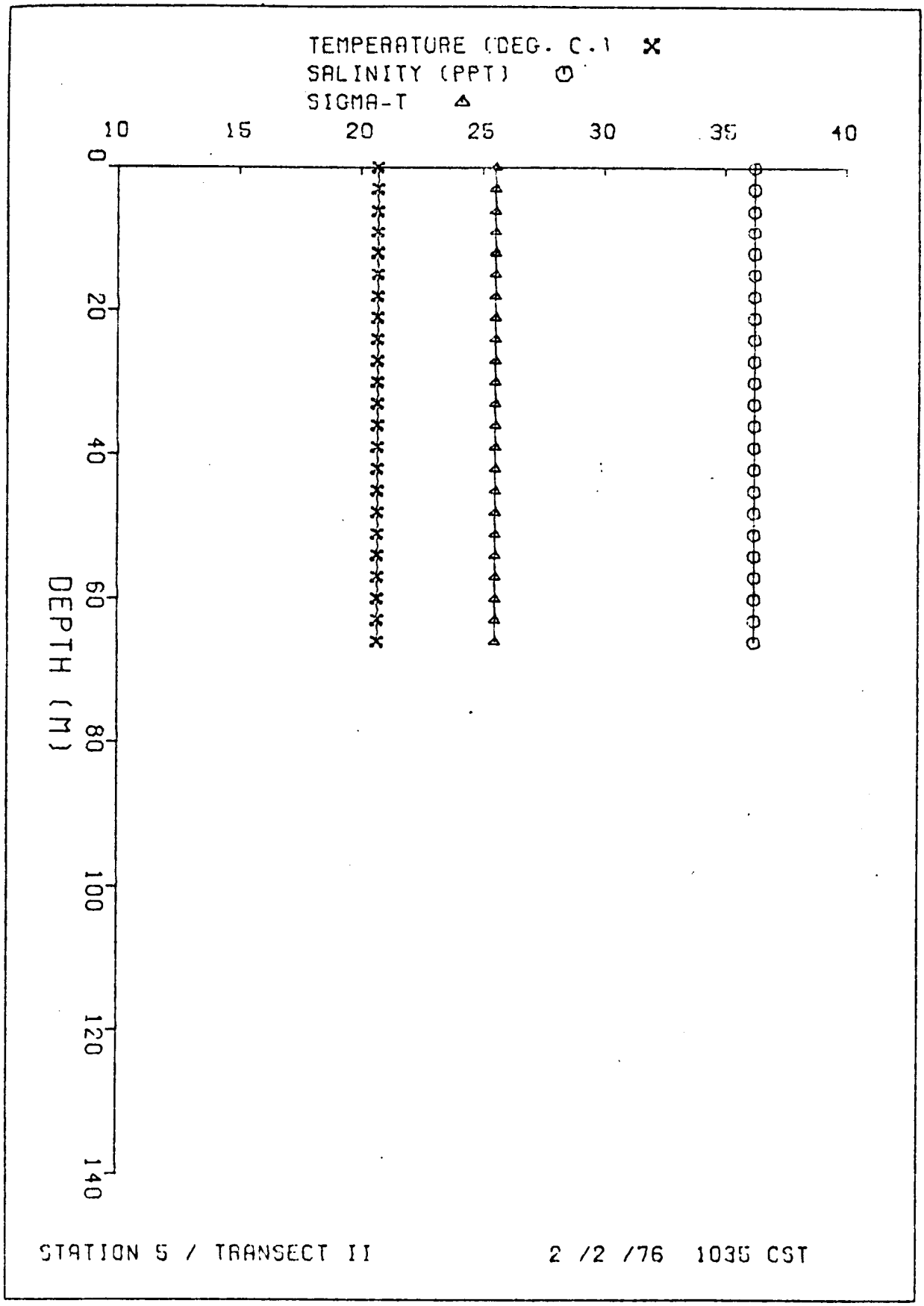
40
60
80
100
120
140
DEPTH (M)
STATION 4 / TRANSECT II
2 /2 /76 1548 CST


TEMPERATURE (DEG. C.) X
SALINITY (PPT) O
SIGMA-T Δ
10
15
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25
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35
40
0
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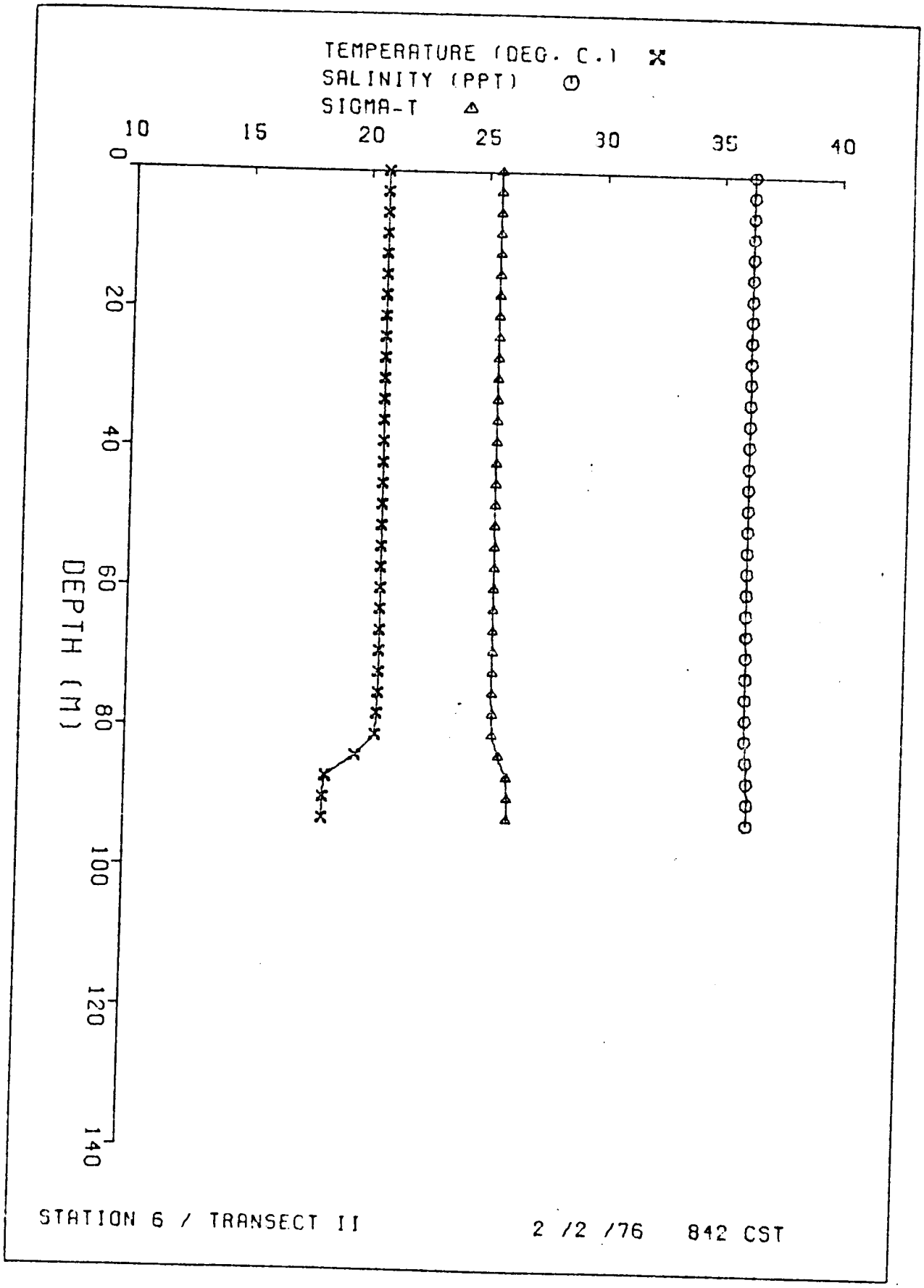
40
60
80
100
120
140
DEPTH (M)
STATION 5 / TRANSECT II
2 /2 /76 1035 CST

HYDROGRAPHIC CAST DATA STATION 6 / TRANSECT II
2/ 2/76 842 CST SAMPLE CODE JAP

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	20.74	36.26	25.54	245.0	0.00	0.00	1525.6	0.0
3.0	20.74	36.26	25.54	245.4	.07	.00	1525.6	0.0
6.0	20.74	36.26	25.54	245.5	.15	.00	1525.7	0.0
9.0	20.74	36.26	25.54	245.6	.22	.01	1525.7	0.0
12.0	20.74	36.26	25.54	245.7	.30	.02	1525.8	0.0
15.0	20.74	36.26	25.54	245.8	.37	.03	1525.8	0.0
18.0	20.74	36.26	25.54	245.9	.44	.04	1525.9	0.0
21.0	20.74	36.26	25.54	246.0	.52	.06	1525.9	0.0
24.0	20.74	36.26	25.54	246.2	.59	.07	1526.0	0.0
27.0	20.74	36.26	25.54	246.3	.67	.09	1526.0	12.5
30.0	20.74	36.27	25.55	245.7	.74	.11	1526.1	12.5
33.0	20.74	36.27	25.55	245.8	.81	.14	1526.1	0.0
36.0	20.74	36.27	25.55	245.9	.89	.16	1526.2	0.0
39.0	20.74	36.27	25.55	246.0	.96	.19	1526.2	0.0
42.0	20.74	36.27	25.55	246.1	1.04	.22	1526.3	0.0
45.0	20.74	36.27	25.55	246.2	1.11	.26	1526.3	0.0
48.0	20.74	36.27	25.55	246.3	1.18	.29	1526.4	0.0
51.0	20.74	36.27	25.55	246.5	1.26	.33	1526.4	12.5
54.0	20.74	36.28	25.56	245.8	1.33	.37	1526.5	12.5
57.0	20.74	36.28	25.56	246.0	1.41	.41	1526.6	0.0
60.0	20.74	36.28	25.56	246.1	1.48	.46	1526.6	0.0
63.0	20.74	36.28	25.56	246.2	1.55	.50	1526.7	12.5
66.0	20.74	36.29	25.57	245.6	1.63	.55	1526.7	17.7
69.0	20.74	36.30	25.57	245.0	1.70	.60	1526.8	17.7
72.0	20.74	36.31	25.58	244.3	1.78	.66	1526.8	12.5
75.0	20.74	36.31	25.58	244.5	1.85	.71	1526.9	21.1
78.0	20.69	36.32	25.60	242.5	1.92	.77	1526.8	29.9
81.0	20.64	36.33	25.62	240.6	1.99	.83	1526.7	78.3
84.0	19.80	36.40	25.90	214.4	2.06	.89	1524.6	114.5
87.0	18.55	36.45	26.26	180.1	2.12	.94	1521.2	92.5
90.0	18.46	36.49	26.32	175.0	2.18	.99	1521.1	34.2
93.0	18.45	36.49	26.32	174.9	2.23	1.04	1521.1	10.4

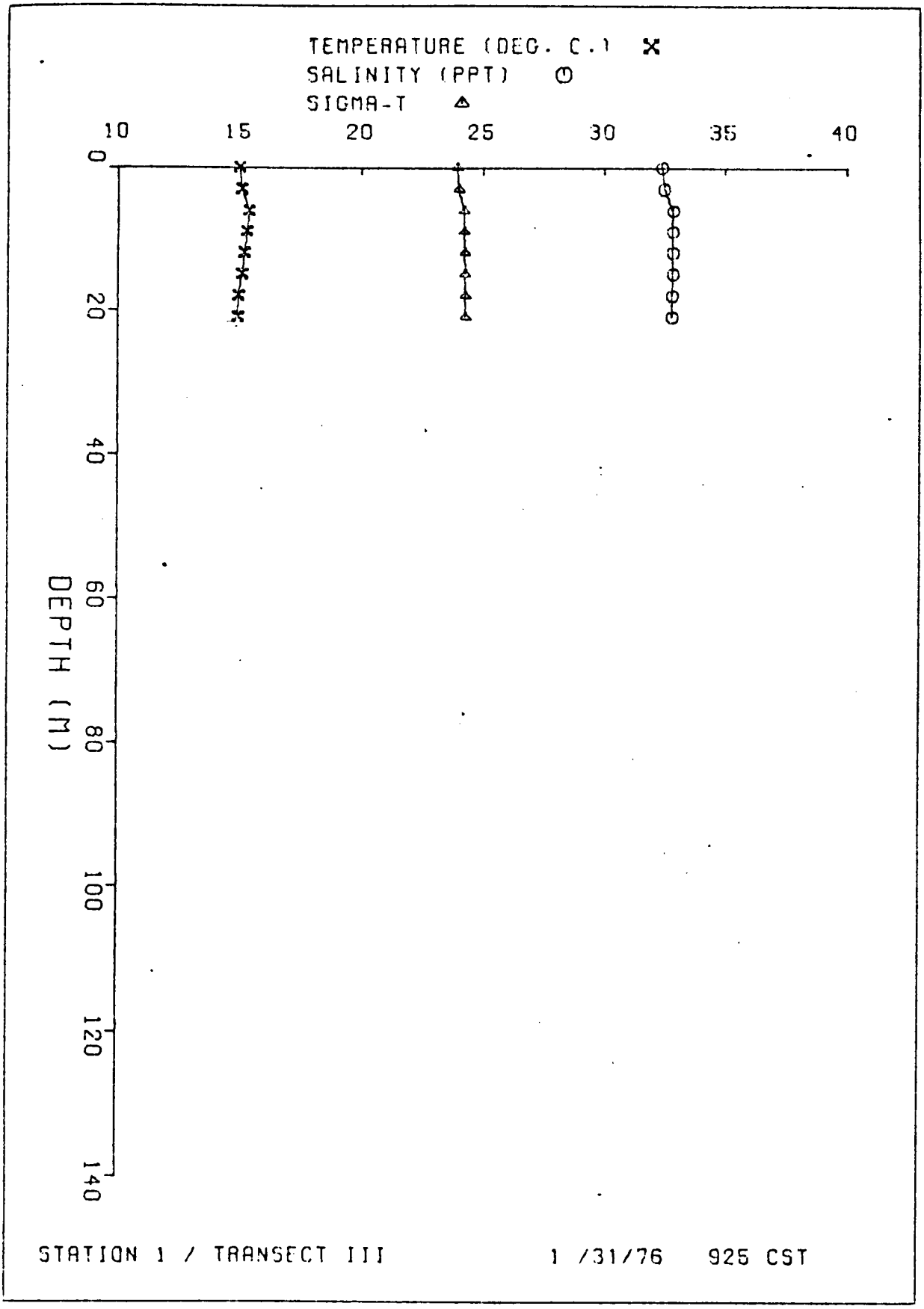

TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 6 / TRANSECT II
2 /2 /76 842 CST

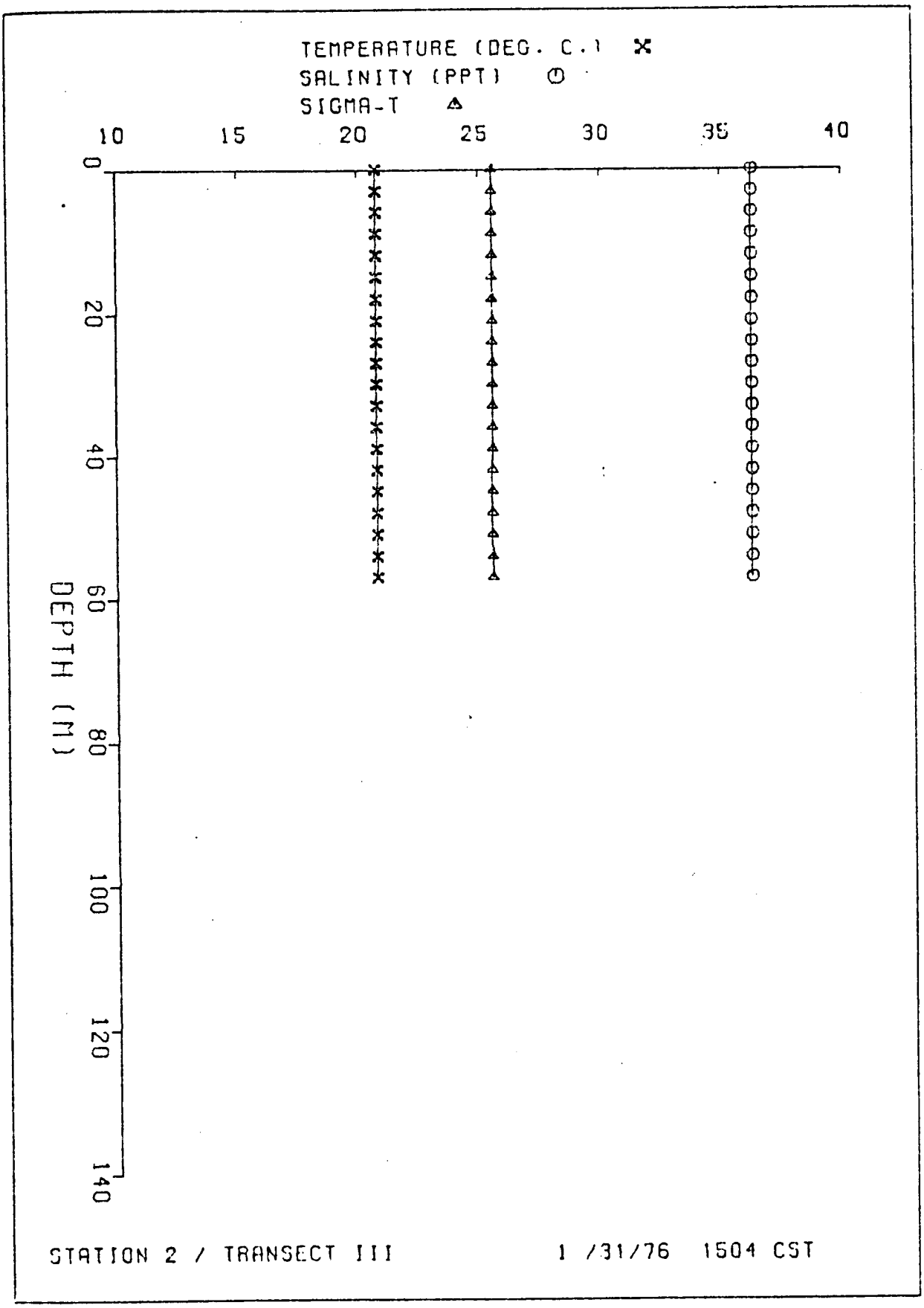
HYDROGRAPHIC CAST DATA STATION 1 / TRANSECT III
1/31/76 925 CST SAMPLE CODE GWW

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	15.01	32.36	23.96	395.6	0.00	0.00	1504.2	49.6
3.0	15.09	32.46	24.02	390.3	.12	.00	1504.6	76.8
6.0	15.39	32.84	24.25	368.8	.23	.01	1506.1	67.5
9.0	15.31	32.81	24.24	369.4	.34	.02	1505.8	13.3
12.0	15.21	32.80	24.26	368.1	.45	.03	1505.6	27.2
15.0	15.11	32.80	24.28	366.1	.56	.04	1505.3	25.3
18.0	14.96	32.77	24.29	365.3	.67	.06	1504.8	18.1
21.0	14.93	32.77	24.29	364.8	.78	.08	1504.8	16.3

HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT III
1/31/76 1504 CST SAMPLE CODE GYN

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	20.75	36.28	25.56	243.6	0.00	0.00	1525.7	0.0
3.0	20.75	36.28	25.56	244.0	.07	.00	1525.7	0.0
6.0	20.75	36.28	25.56	244.1	.15	.00	1525.7	0.0
9.0	20.75	36.28	25.56	244.2	.22	.01	1525.8	0.0
12.0	20.75	36.28	25.56	244.3	.29	.02	1525.8	0.0
15.0	20.75	36.28	25.56	244.4	.37	.03	1525.9	0.0
18.0	20.75	36.28	25.56	244.5	.44	.04	1525.9	0.0
21.0	20.75	36.28	25.56	244.6	.51	.06	1526.0	0.0
24.0	20.75	36.28	25.56	244.8	.59	.07	1526.0	0.0
27.0	20.75	36.28	25.56	244.9	.66	.09	1526.1	0.0
30.0	20.75	36.28	25.56	245.0	.74	.11	1526.1	0.0
33.0	20.75	36.28	25.56	245.1	.81	.14	1526.2	0.0
36.0	20.75	36.28	25.56	245.2	.88	.16	1526.2	0.0
39.0	20.76	36.28	25.56	245.6	.96	.19	1526.3	0.0
42.0	20.77	36.28	25.55	245.9	1.03	.22	1526.4	0.0
45.0	20.77	36.28	25.55	246.1	1.10	.26	1526.4	0.0
48.0	20.77	36.28	25.55	246.2	1.18	.29	1526.5	0.0
51.0	20.77	36.28	25.55	246.3	1.25	.33	1526.5	12.5
54.0	20.77	36.29	25.56	245.7	1.33	.37	1526.6	12.5
57.0	20.77	36.29	25.56	245.8	1.40	.41	1526.6	0.0


TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 1 / TRANSECT III
1 /31/76 925 CST

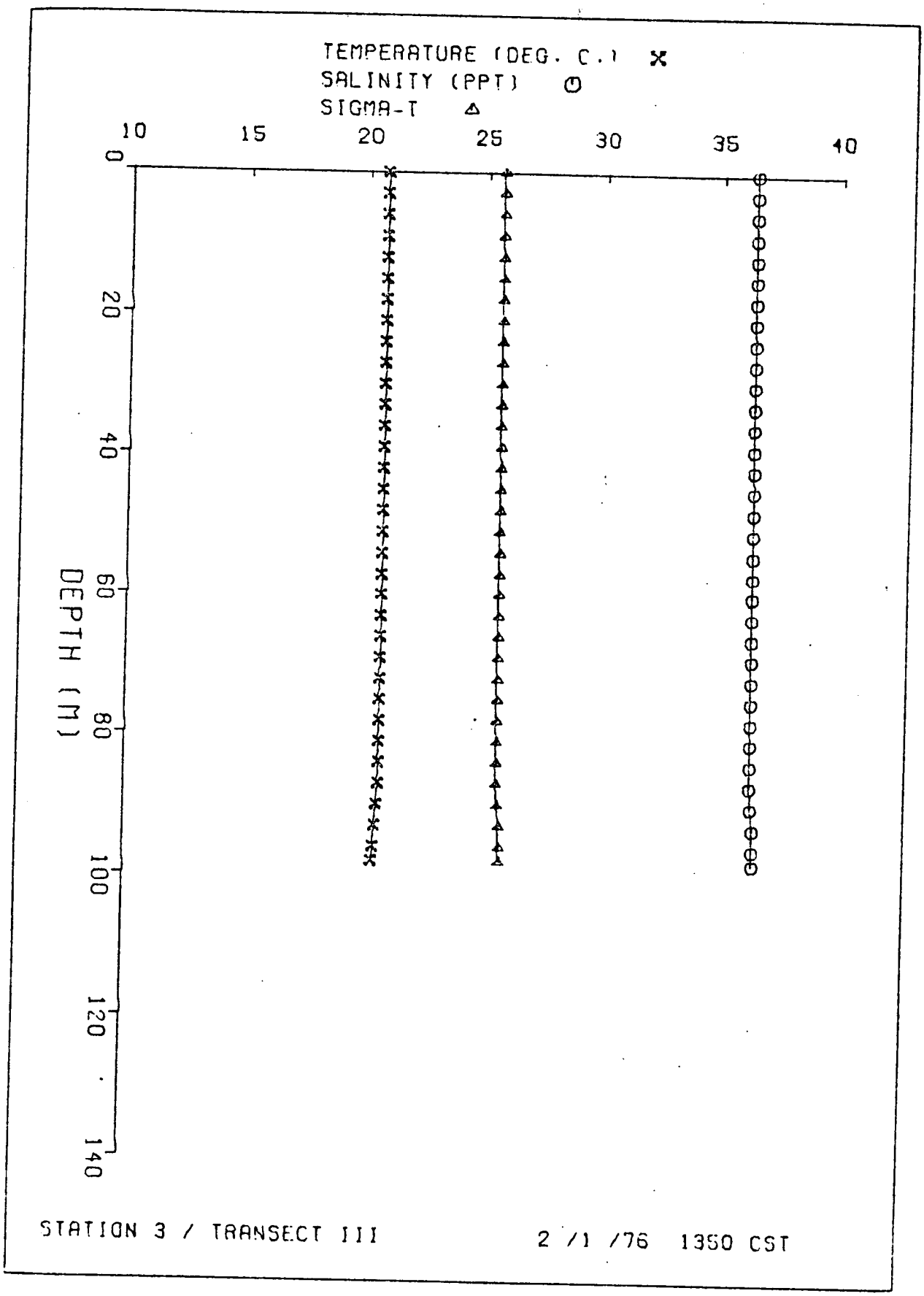

TEMPERATURE (DEG. C.) ✕
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 2 / TRANSECT III
1 /31/76 1504 CST

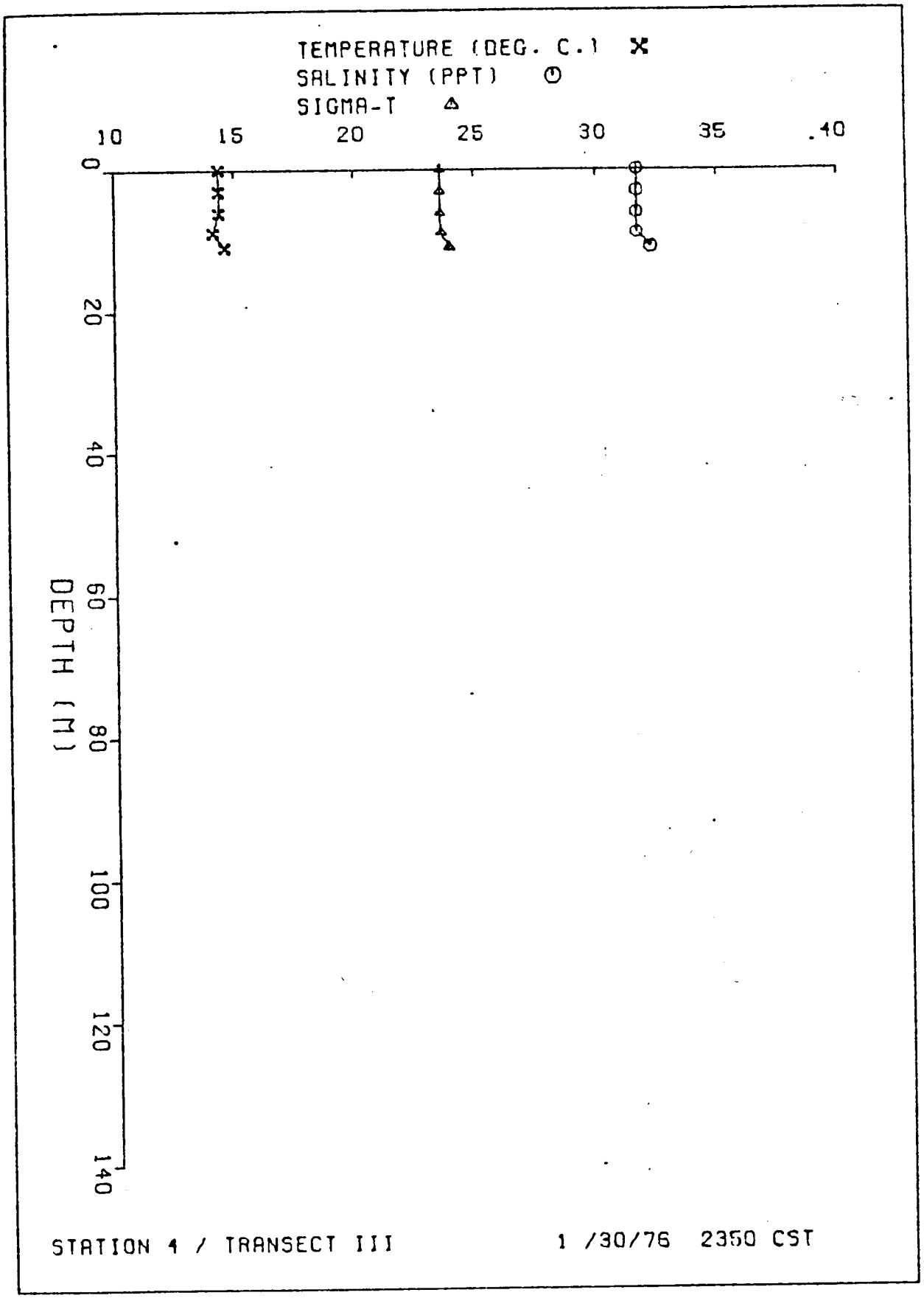
HYDROGRAPHIC CAST DATA STATION 3 / TRANSECT III
2/ 1/76 1350 CST SAMPLE CODE GAI

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	20.70	36.34	25.61	238.2	0.00	0.00	1525.6	0.0
3.0	20.70	36.34	25.61	238.6	.07	.00	1525.6	0.0
6.0	20.70	36.34	25.61	238.7	.14	.00	1525.7	0.0
9.0	20.70	36.34	25.61	238.9	.22	.01	1525.7	12.5
12.0	20.70	36.35	25.62	238.2	.29	.02	1525.8	12.5
15.0	20.70	36.35	25.62	238.4	.36	.03	1525.8	0.0
18.0	20.70	36.35	25.62	238.5	.43	.04	1525.9	0.0
21.0	20.70	36.35	25.62	238.6	.50	.05	1525.9	12.5
24.0	20.70	36.36	25.63	238.0	.57	.07	1526.0	12.5
27.0	20.70	36.36	25.63	238.1	.65	.09	1526.0	0.0
30.0	20.70	36.36	25.63	238.2	.72	.11	1526.1	0.0
33.0	20.70	36.36	25.63	238.3	.79	.13	1526.1	0.0
36.0	20.70	36.36	25.63	238.4	.86	.16	1526.2	12.5
39.0	20.70	36.37	25.64	237.8	.93	.19	1526.3	17.9
42.0	20.70	36.38	25.65	237.2	1.00	.22	1526.3	17.9
45.0	20.70	36.39	25.65	236.6	1.08	.25	1526.4	12.5
48.0	20.70	36.39	25.65	236.7	1.15	.28	1526.4	0.0
51.0	20.70	36.39	25.65	236.8	1.22	.32	1526.5	12.5
54.0	20.70	36.40	25.66	236.2	1.29	.36	1526.5	12.5
57.0	20.70	36.40	25.66	236.3	1.36	.40	1526.6	0.0
60.0	20.70	36.40	25.66	236.4	1.43	.44	1526.6	0.0
63.0	20.70	36.40	25.66	236.5	1.50	.48	1526.7	0.0
66.0	20.70	36.40	25.66	236.6	1.57	.53	1526.7	12.8
69.0	20.70	36.41	25.67	236.0	1.64	.58	1526.8	13.7
72.0	20.69	36.41	25.67	236.0	1.72	.63	1526.8	4.9
75.0	20.69	36.41	25.67	236.1	1.79	.69	1526.9	0.0
78.0	20.69	36.41	25.67	236.2	1.86	.74	1526.9	12.5
81.0	20.69	36.42	25.68	235.6	1.93	.80	1527.0	12.5
84.0	20.69	36.42	25.68	235.7	2.00	.86	1527.0	4.9
87.0	20.69	36.42	25.68	235.7	2.07	.92	1527.1	36.1
90.0	20.63	36.48	25.74	229.9	2.14	.99	1527.0	56.3
93.0	20.57	36.58	25.83	221.3	2.21	1.05	1527.0	47.0
96.0	20.51	36.58	25.85	220.0	2.27	1.11	1526.9	30.2
98.0	20.47	36.59	25.87	218.2	2.32	1.16	1526.9	34.5

HYDROGRAPHIC CAST DATA STATION 4 / TRANSECT III
1/30/76 2350 CST SAMPLE CODE JAS

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	14.36	31.68	23.58	432.1	0.00	0.00	1501.3	0.0
3.0	14.37	31.68	23.58	432.7	.13	.00	1501.3	0.0
6.0	14.37	31.68	23.58	432.7	.26	.01	1501.4	31.3
9.0	14.14	31.68	23.62	428.3	.39	.02	1500.7	107.3
11.0	14.61	32.25	23.96	395.9	.47	.03	1503.0	145.1


TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 3 / TRANSECT III
2 /1 /76 1350 CST


TEMPERATURE (DEG. C.) ✕
SALINITY (PPT) ⊙
SIGMA-T △
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15
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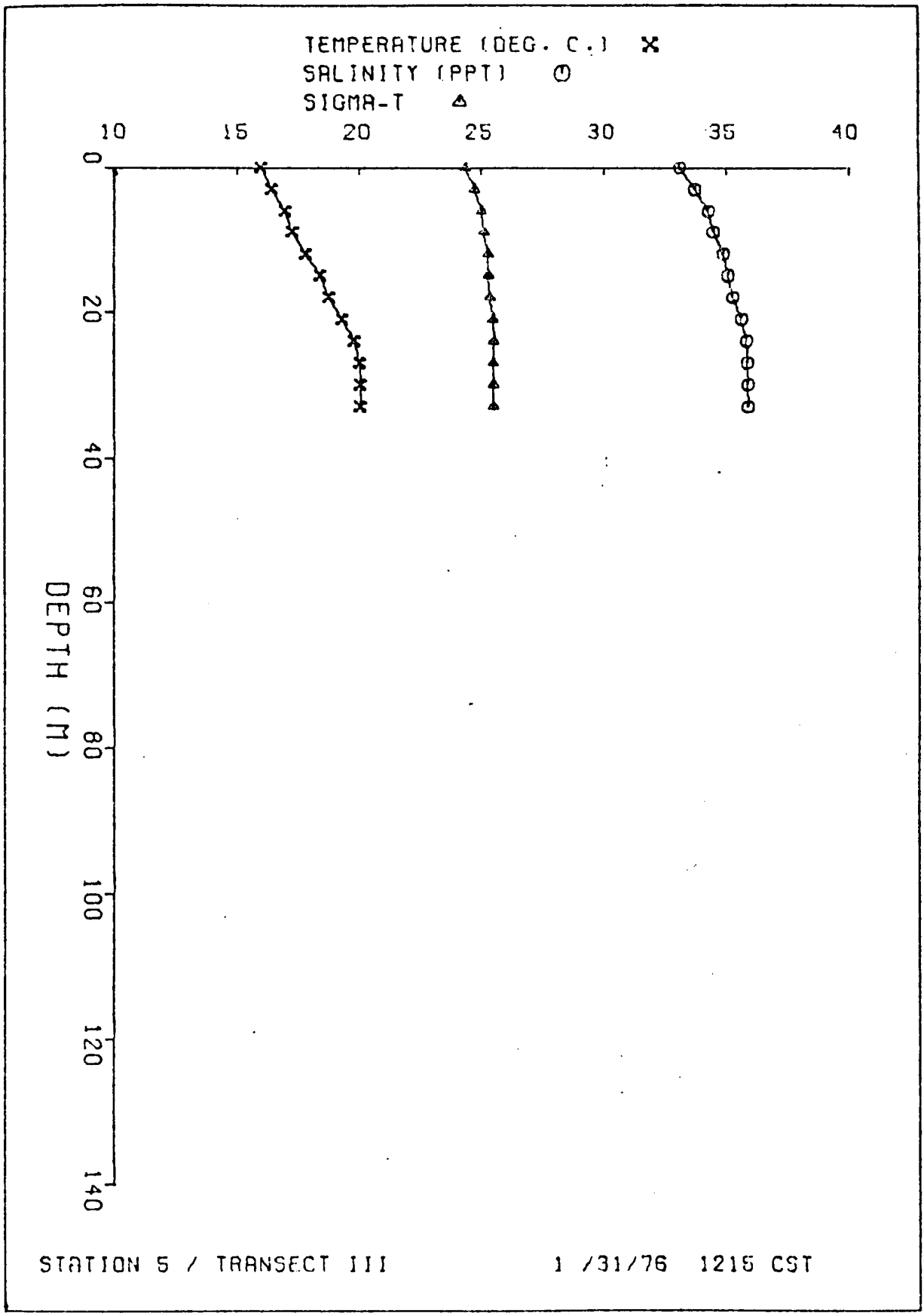
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 4 / TRANSECT III
1 /30/76 2350 CST

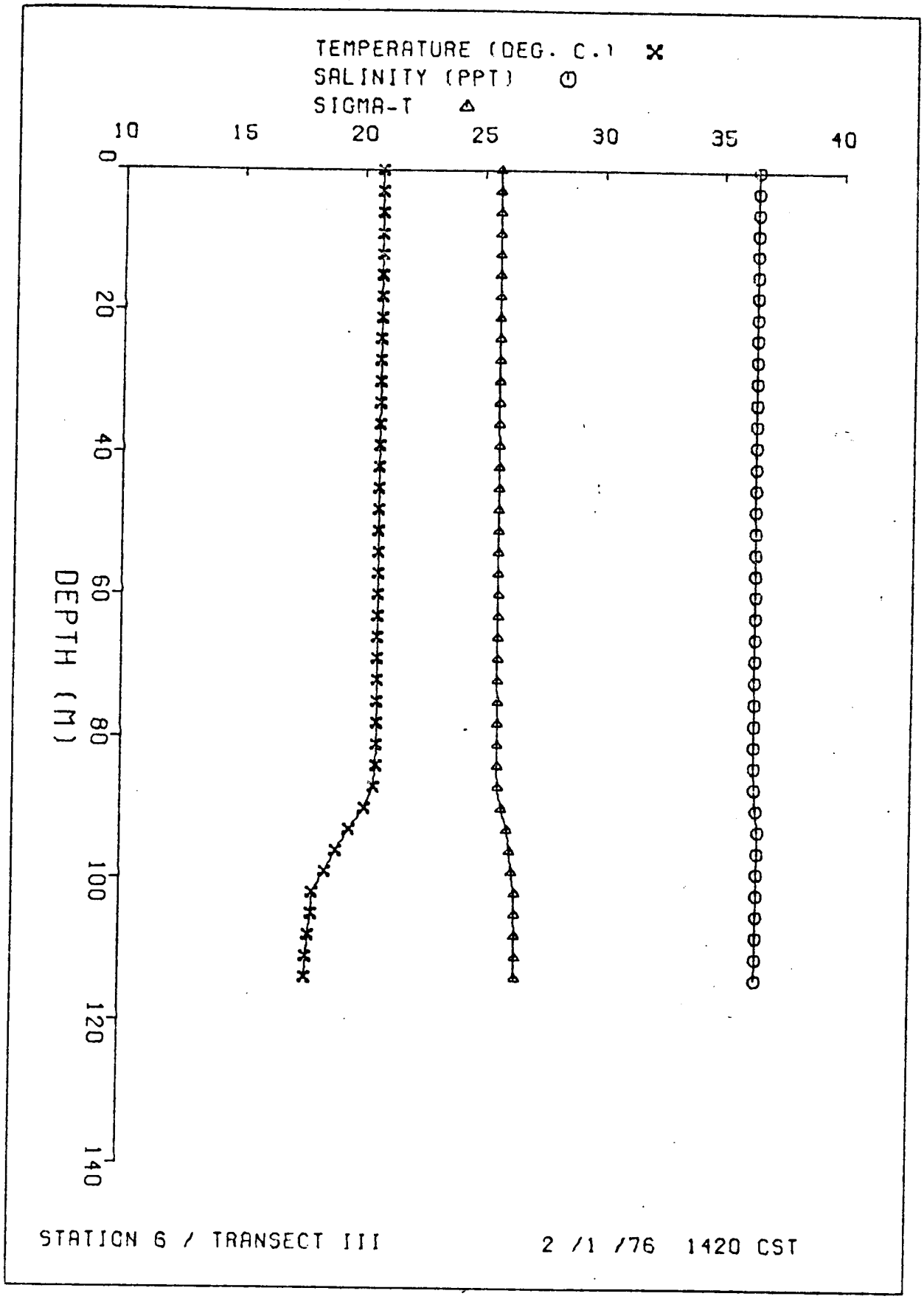
HYDROGRAPHIC CAST DATA STATION 5 / TRANSECT III
1/31/76 1215 CST SAMPLE CODE JAV

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	15.94	33.10	24.33	360.7	0.00	0.00	1508.0	127.8
3.0	16.39	33.75	24.72	323.4	.10	.00	1510.2	119.2
6.0	16.94	34.30	25.02	295.6	.20	.01	1512.6	87.9
9.0	17.24	34.50	25.10	287.9	.28	.01	1513.8	72.5
12.0	17.79	34.90	25.27	271.5	.37	.02	1516.0	60.5
15.0	18.39	35.10	25.28	271.2	.45	.03	1518.0	37.8
18.0	18.74	35.30	25.34	265.1	.53	.05	1519.3	62.7
21.0	19.29	35.65	25.47	253.2	.61	.06	1521.3	58.1
24.0	19.79	35.87	25.50	249.8	.68	.08	1523.0	14.3
27.0	20.01	35.91	25.48	252.5	.76	.10	1523.7	0.0
30.0	20.04	35.93	25.48	252.0	.83	.12	1523.8	17.5
33.0	20.04	35.94	25.49	251.4	.91	.15	1523.9	17.7


TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 5 / TRANSECT III
1 /31/76 1215 CST

HYDROGRAPHIC CAST DATA STATION 6 / TRANSECT III
2/ 1/76 1420 CST SAMPLE CODE JAY

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	20.72	36.40	25.66	233.9	0.00	0.00	1525.7	0.0
3.0	20.72	36.40	25.66	234.3	.07	.00	1525.8	0.0
6.0	20.72	36.40	25.66	234.4	.14	.00	1525.8	0.0
9.0	20.72	36.40	25.66	234.5	.21	.01	1525.9	0.0
12.0	20.72	36.40	25.66	234.6	.28	.02	1525.9	0.0
15.0	20.72	36.40	25.66	234.7	.35	.03	1526.0	0.0
18.0	20.72	36.40	25.66	234.9	.42	.04	1526.0	0.0
21.0	20.72	36.40	25.66	235.0	.49	.05	1526.1	10.6
24.0	20.70	36.40	25.67	234.6	.56	.07	1526.1	10.6
27.0	20.70	36.40	25.67	234.7	.64	.09	1526.1	0.0
30.0	20.70	36.40	25.67	234.8	.71	.11	1526.2	0.0
33.0	20.70	36.40	25.67	234.9	.78	.13	1526.2	7.5
36.0	20.69	36.40	25.67	234.8	.85	.16	1526.2	14.6
39.0	20.69	36.41	25.68	234.2	.92	.18	1526.3	14.6
42.0	20.68	36.41	25.68	234.0	.99	.21	1526.3	7.5
45.0	20.68	36.41	25.68	234.1	1.06	.24	1526.4	0.0
48.0	20.68	36.41	25.68	234.2	1.13	.28	1526.4	12.5
51.0	20.68	36.42	25.69	233.6	1.20	.31	1526.5	12.5
54.0	20.68	36.42	25.69	233.7	1.27	.35	1526.5	7.5
57.0	20.67	36.42	25.69	233.6	1.34	.39	1526.5	14.6
60.0	20.67	36.43	25.70	233.0	1.41	.43	1526.6	12.5
63.0	20.67	36.43	25.70	233.1	1.48	.48	1526.6	12.5
66.0	20.67	36.44	25.70	232.5	1.55	.52	1526.7	12.5
69.0	20.67	36.44	25.70	232.6	1.62	.57	1526.8	0.0
72.0	20.67	36.44	25.70	232.7	1.69	.62	1526.8	12.5
75.0	20.67	36.45	25.71	232.1	1.76	.68	1526.9	12.5
78.0	20.67	36.45	25.71	232.2	1.83	.73	1526.9	0.0
81.0	20.67	36.45	25.71	232.3	1.90	.79	1527.0	14.6
84.0	20.66	36.46	25.72	231.5	1.97	.85	1527.0	32.1
87.0	20.57	36.48	25.76	227.8	2.04	.91	1526.8	64.2
90.0	20.20	36.56	25.92	212.7	2.11	.97	1526.0	90.3
93.0	19.57	36.65	26.16	190.4	2.17	1.03	1524.4	86.4
96.0	19.02	36.63	26.28	178.3	2.22	1.08	1522.9	67.3
99.0	18.57	36.60	26.38	169.6	2.27	1.13	1521.7	67.0
102.0	18.07	36.60	26.50	157.7	2.32	1.18	1520.3	51.8
105.0	18.02	36.59	26.51	157.4	2.37	1.23	1520.2	21.3
108.0	17.92	36.58	26.52	155.8	2.42	1.28	1519.9	26.6
111.0	17.82	36.57	26.54	154.3	2.47	1.34	1519.7	20.0
114.0	17.78	36.56	26.54	154.2	2.51	1.39	1519.6	9.6


TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 6 / TRANSECT III
2 /1 /76 1420 CST

HYDROGRAPHIC CAST DATA STATION 1 / TRANSECT IV
1/30/76 1642 CST SAMPLE CODE GJS

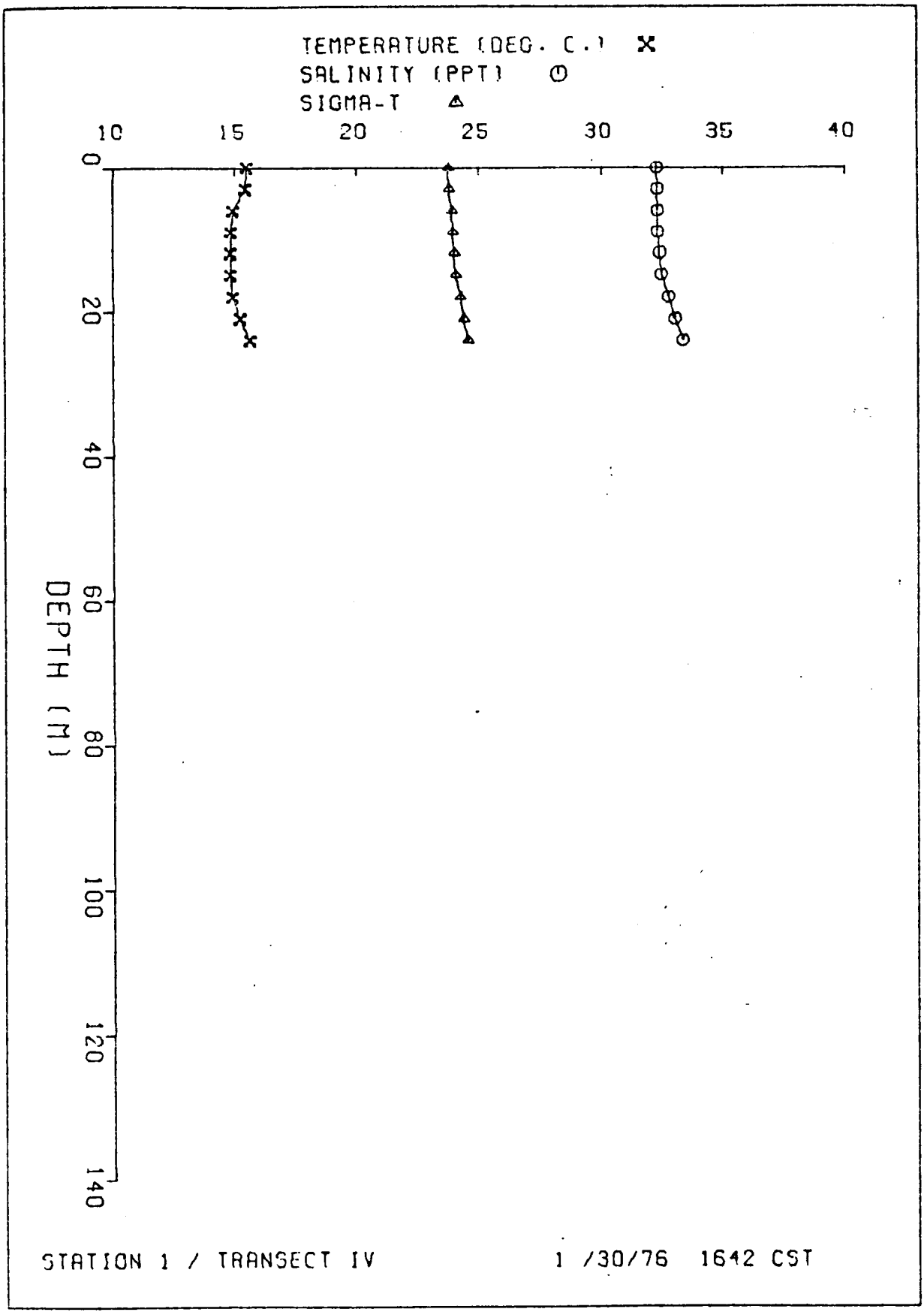
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	15.50	32.26	23.78	413.3	0.00	0.00	1505.6	37.4
3.0	15.45	32.29	23.81	410.4	.12	.00	1505.5	57.0
6.0	14.95	32.31	23.93	398.7	.25	.01	1504.0	56.1
9.0	14.85	32.32	23.96	396.0	.36	.02	1503.8	41.3
12.0	14.85	32.39	24.02	390.9	.48	.03	1503.9	47.1
15.0	14.85	32.46	24.07	385.9	.60	.05	1504.0	73.6
18.0	14.95	32.76	24.28	366.0	.71	.06	1504.8	84.2
21.0	15.25	33.02	24.41	353.3	.82	.09	1506.1	79.6
24.0	15.65	33.36	24.59	336.9	.92	.11	1507.8	84.4

HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT IV
1/30/76 1330 CST SAMPLE CODE GGH

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	19.60	35.39	25.19	278.7	0.00	0.00	1521.5	14.7
3.0	19.58	35.39	25.19	278.5	.08	.00	1521.5	0.0
6.0	19.47	35.33	25.17	280.9	.17	.01	1521.2	6.9
9.0	19.47	35.36	25.20	278.5	.25	.01	1521.2	23.3
12.0	19.47	35.36	25.20	278.6	.34	.02	1521.3	23.3
15.0	19.47	35.39	25.22	276.2	.42	.03	1521.4	40.9
18.0	19.46	35.46	25.28	271.1	.50	.05	1521.5	37.5
21.0	19.51	35.50	25.29	270.0	.58	.06	1521.7	16.5
24.0	19.51	35.50	25.29	270.1	.66	.08	1521.8	0.0
27.0	19.51	35.50	25.29	270.2	.75	.10	1521.8	7.3
30.0	19.50	35.50	25.29	270.0	.83	.13	1521.8	33.7
33.0	19.50	35.57	25.35	265.1	.91	.15	1522.0	40.3
36.0	19.50	35.60	25.37	262.8	.99	.18	1522.0	39.6
39.0	19.51	35.67	25.42	258.1	1.06	.21	1522.2	49.4
42.0	19.55	35.77	25.49	251.7	1.14	.24	1522.5	38.2
45.0	19.54	35.77	25.49	251.6	1.22	.28	1522.5	10.4

HYDROGRAPHIC CAST DATA STATION 5 / TRANSECT IV
1/30/76 1513 CST SAMPLE CODE JBE

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	16.60	33.34	24.36	357.9	0.00	0.00	1510.3	122.5
3.0	16.55	33.80	24.72	323.6	.10	.00	1510.8	99.7
6.0	16.60	33.97	24.84	312.4	.20	.01	1511.2	53.3
9.0	16.65	34.01	24.86	310.7	.29	.01	1511.4	35.3
12.0	16.80	34.11	24.90	306.8	.38	.02	1512.1	46.7
15.0	17.08	34.28	24.96	300.8	.48	.04	1513.2	35.8
18.0	17.12	34.29	24.96	301.1	.57	.05	1513.3	26.0
21.0	17.20	34.36	25.00	297.9	.66	.07	1513.7	24.8
24.0	17.22	34.36	24.99	298.4	.75	.09	1513.8	29.7
27.0	17.50	34.51	25.04	294.0	.83	.11	1514.9	50.7
30.0	17.75	34.69	25.12	286.8	.92	.14	1515.9	41.9
33.0	17.81	34.72	25.13	286.1	1.01	.17	1516.1	18.5


TEMPERATURE (DEG. C.)
SALINITY (PPT)
SIGMA-T
10
15
20
25
30
35
40
0
20
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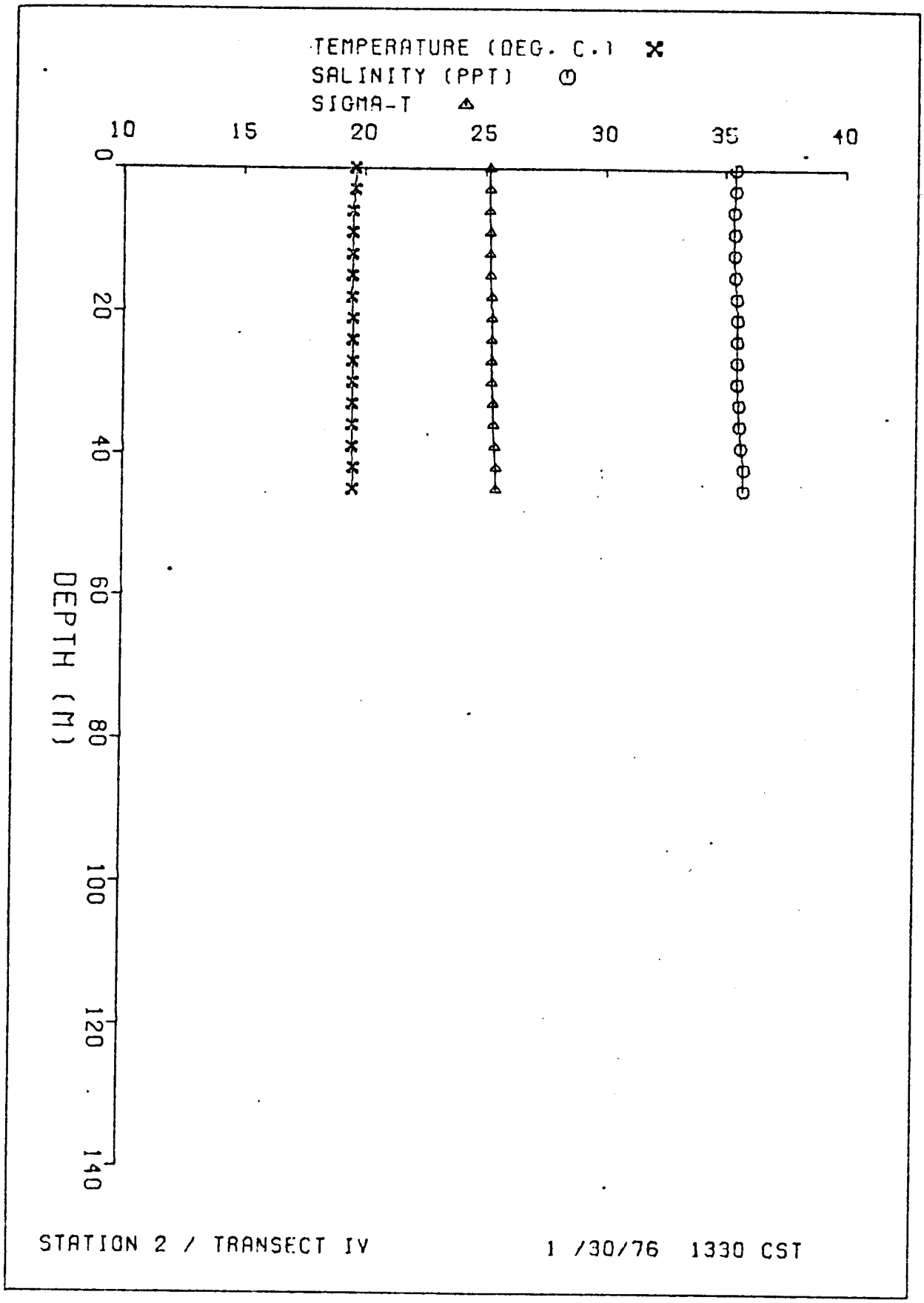
60
80
100
120
140
DEPTH (M)
STATION 1 / TRANSECT IV
1 /30/76 1642 CST


TEMPERATURE (DEG. C.) ✕
SALINITY (PPT) ⊖
SIGMA-T △
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15
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25
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35
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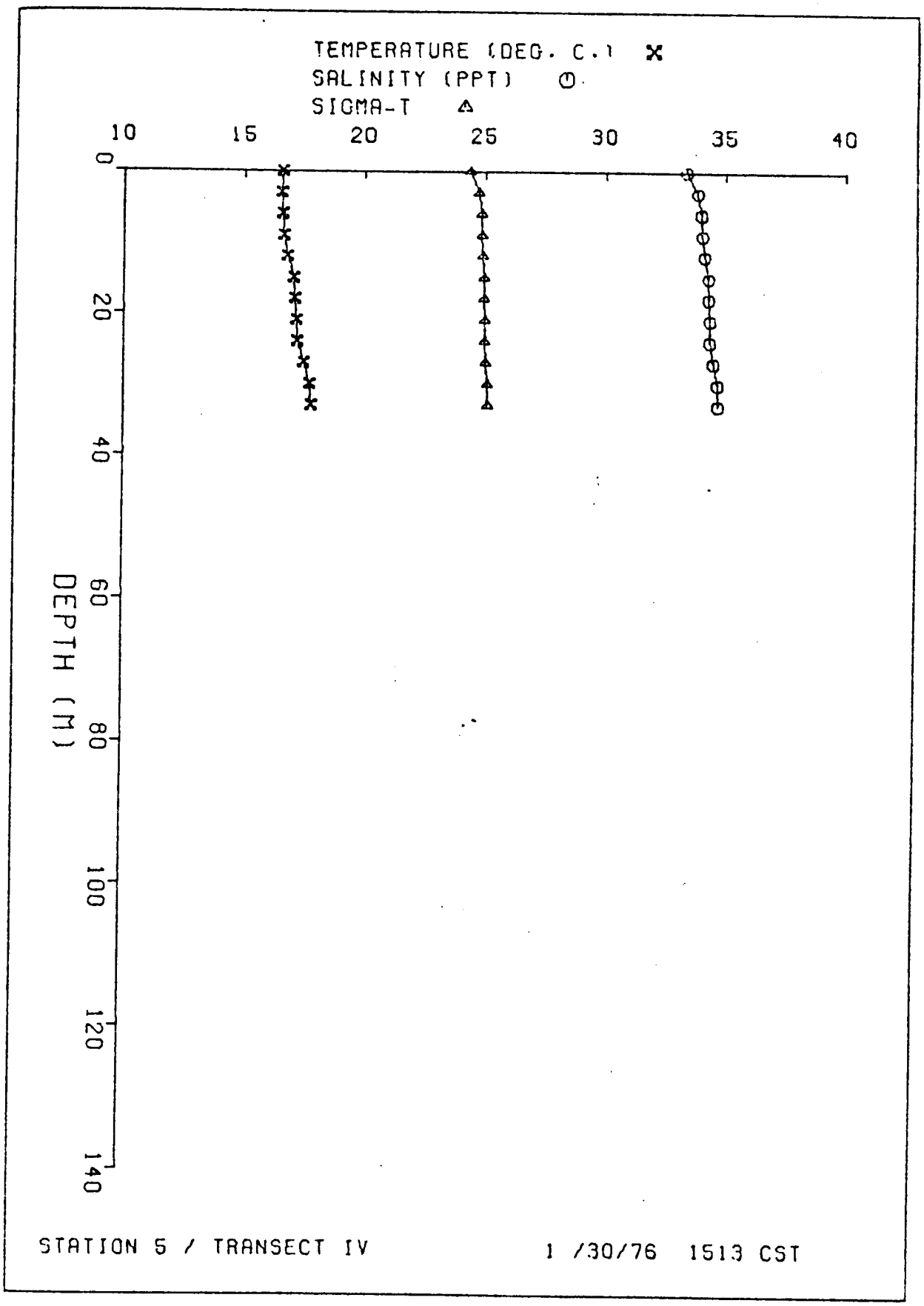
20
40
60
80
100
120
140
DEPTH (M)
STATION 2 / TRANSECT IV
1 /30/76 1330 CST

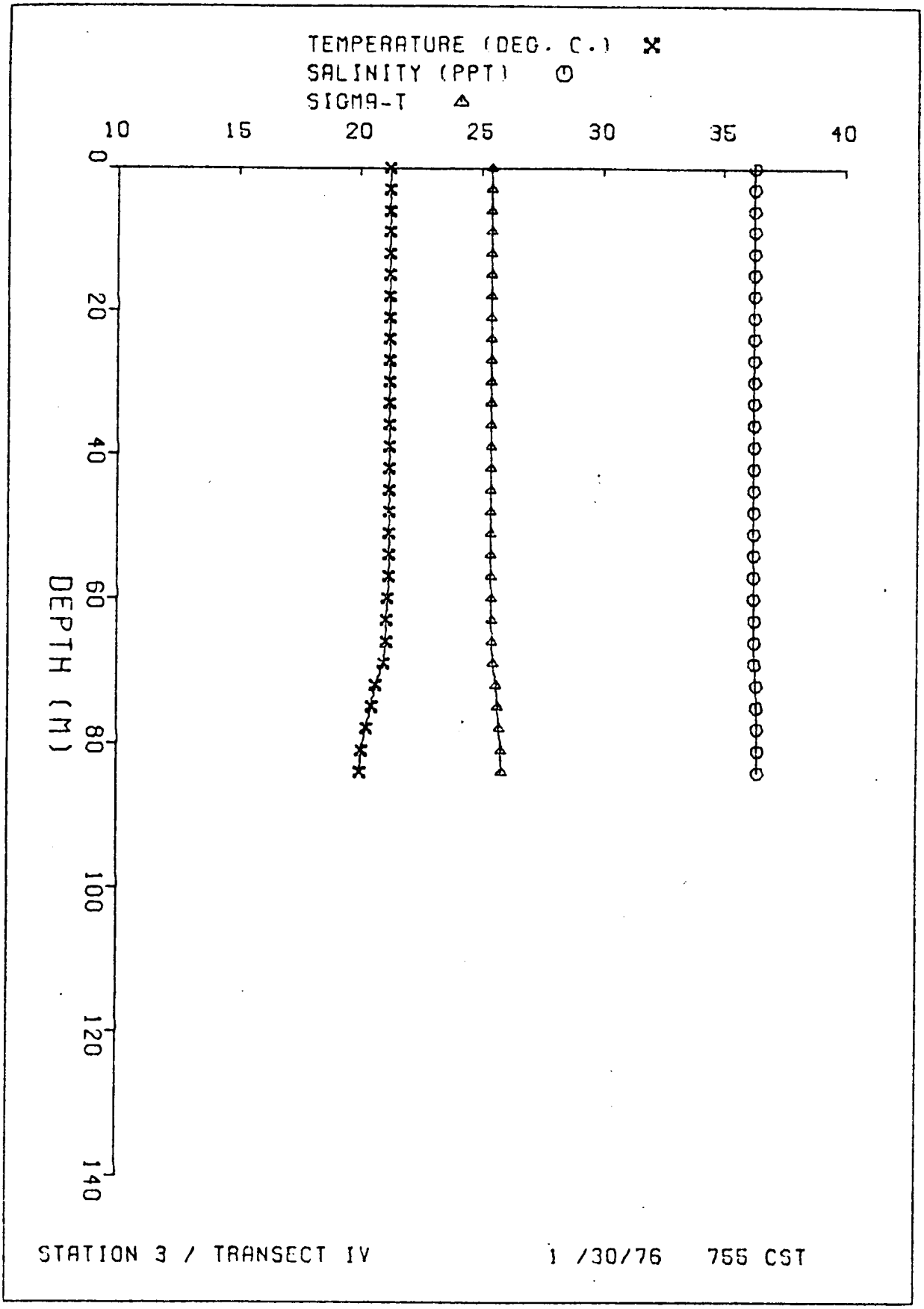

TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 5 / TRANSECT IV
1 /30/76 1513 CST

HYDROGRAPHIC CAST DATA STATION 3 / TRANSECT IV
1/30/76 755 CST SAMPLE CODE GHY

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	21.21	36.26	25.42	257.0	0.00	0.00	1526.8	0.0
3.0	21.21	36.26	25.42	257.4	.08	.00	1526.9	0.0
6.0	21.21	36.26	25.42	257.5	.15	.00	1526.9	0.0
9.0	21.21	36.26	25.42	257.6	.23	.01	1527.0	0.0
12.0	21.21	36.26	25.42	257.7	.31	.02	1527.0	0.0
15.0	21.21	36.26	25.42	257.8	.39	.03	1527.1	0.0
18.0	21.21	36.26	25.42	257.9	.46	.04	1527.1	0.0
21.0	21.21	36.26	25.42	258.0	.54	.06	1527.2	0.0
24.0	21.21	36.26	25.42	258.2	.62	.08	1527.2	0.0
27.0	21.21	36.26	25.42	258.3	.70	.10	1527.3	0.0
30.0	21.21	36.26	25.42	258.4	.78	.12	1527.3	0.0
33.0	21.21	36.26	25.42	258.5	.85	.14	1527.4	0.0
36.0	21.21	36.26	25.42	258.6	.93	.17	1527.4	0.0
39.0	21.21	36.26	25.42	258.7	1.01	.20	1527.5	0.0
42.0	21.21	36.26	25.42	258.8	1.09	.23	1527.5	0.0
45.0	21.21	36.26	25.42	259.0	1.16	.27	1527.6	0.0
48.0	21.21	36.26	25.42	259.1	1.24	.31	1527.6	0.0
51.0	21.21	36.26	25.42	259.2	1.32	.35	1527.7	0.0
54.0	21.21	36.26	25.42	259.3	1.40	.39	1527.7	11.2
57.0	21.21	36.27	25.42	258.8	1.48	.43	1527.8	20.7
60.0	21.16	36.27	25.44	257.6	1.55	.48	1527.7	29.3
63.0	21.10	36.28	25.46	255.1	1.63	.53	1527.6	26.0
66.0	21.10	36.29	25.47	254.7	1.71	.58	1527.7	31.3
69.0	21.00	36.31	25.51	250.8	1.78	.63	1527.5	61.5
72.0	20.67	36.38	25.65	237.4	1.86	.68	1526.7	63.8
75.0	20.51	36.40	25.71	232.2	1.93	.74	1526.4	52.0
78.0	20.30	36.42	25.79	225.1	2.00	.79	1525.9	54.7
81.0	20.08	36.44	25.86	218.6	2.06	.85	1525.4	43.0
84.0	20.03	36.44	25.88	216.8	2.13	.90	1525.3	28.9

HYDROGRAPHIC CAST DATA STATION 4 / TRANSECT IV
1/30/76 1913 CST SAMPLE CODE JBB

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	15.54	32.29	23.80	411.5	0.00	0.00	1505.8	42.5
3.0	15.34	32.29	23.84	407.7	.12	.00	1505.2	60.8
6.0	14.89	32.34	23.97	394.8	.24	.01	1503.9	65.7
9.0	14.36	32.29	24.05	387.9	.36	.02	1502.2	43.8
12.0	14.34	32.31	24.07	386.1	.48	.03	1502.2	28.4


TEMPERATURE (DEG. C.) ✕
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
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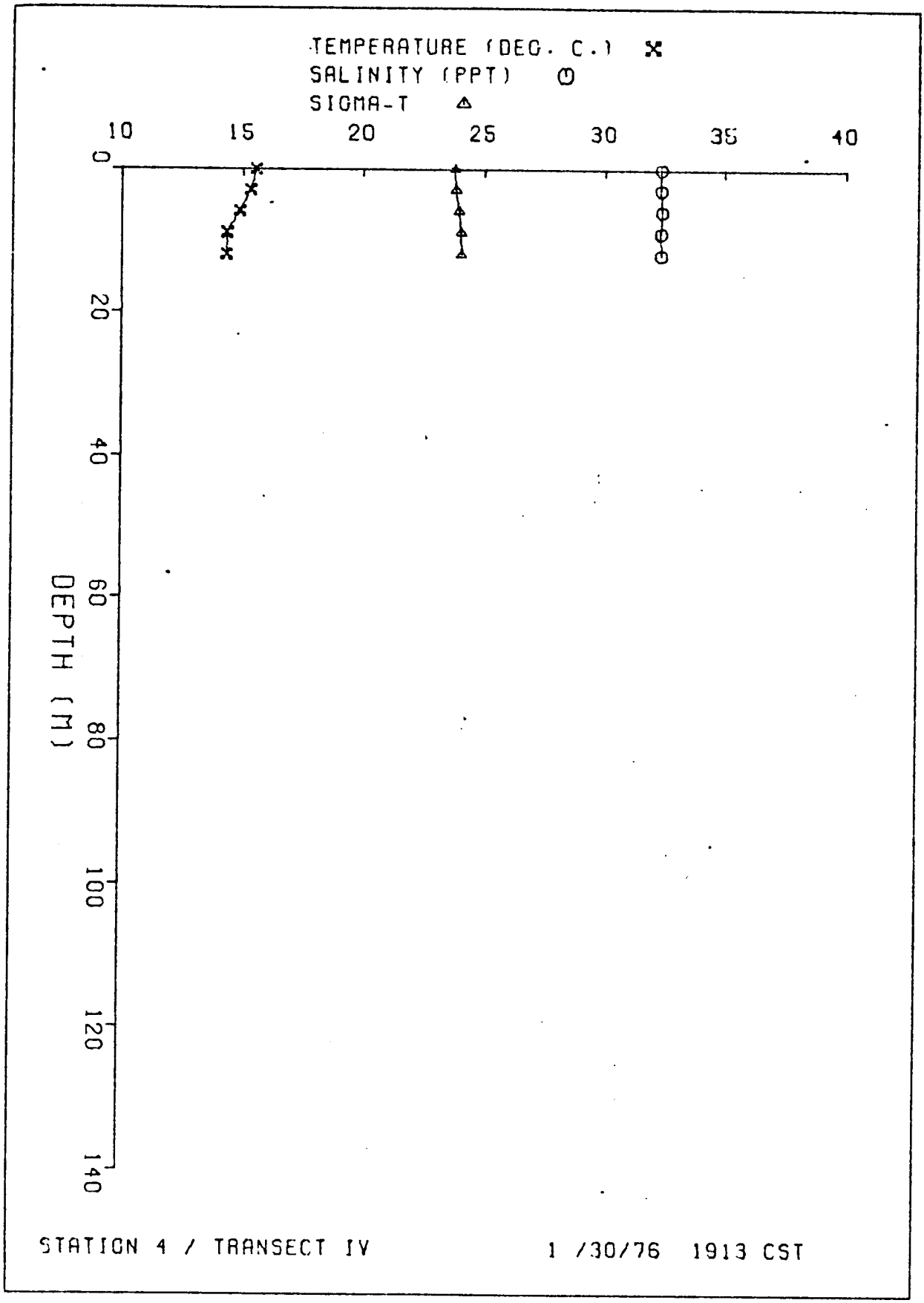
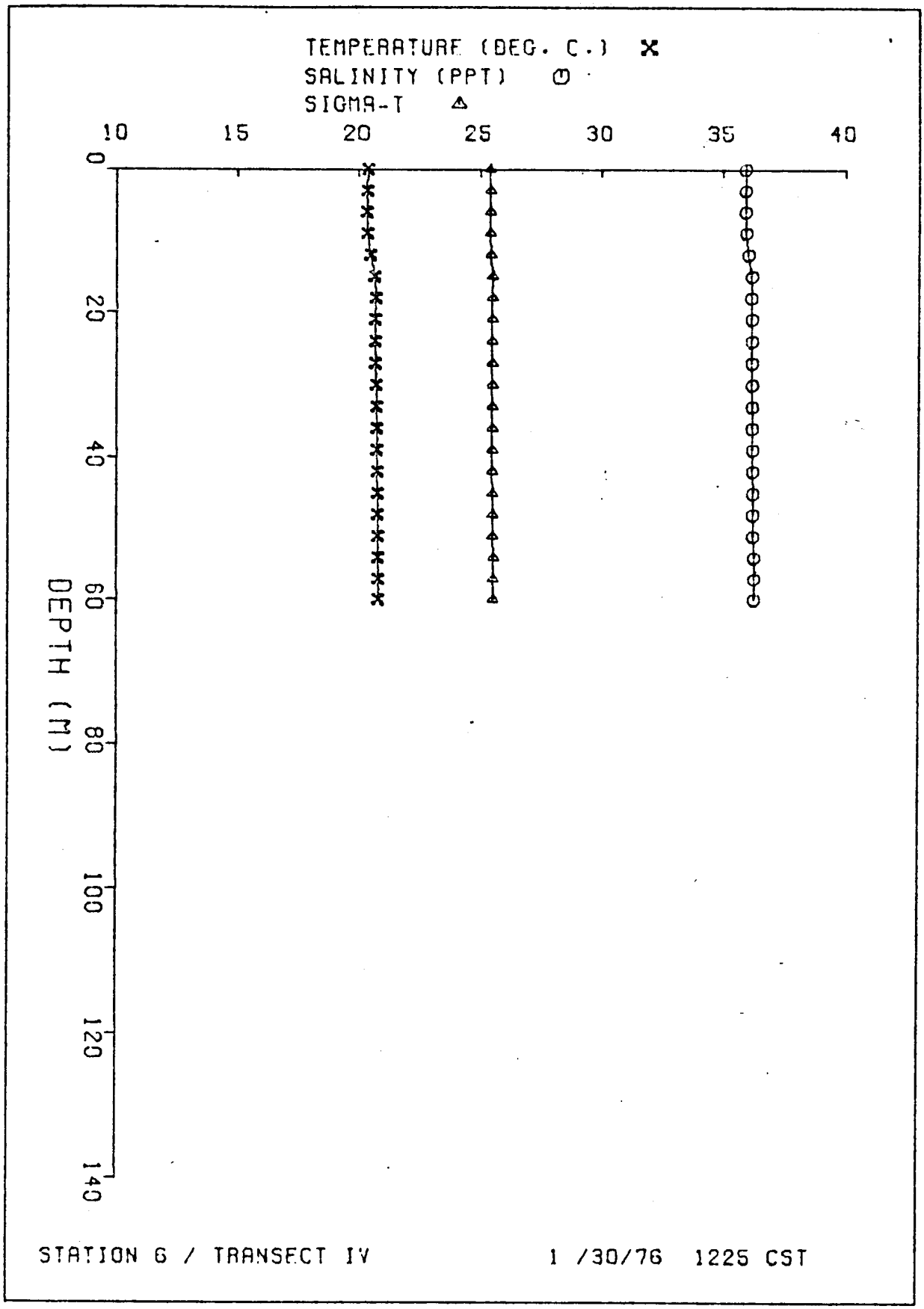
20
40
60
80
100
120
140
DEPTH (M)
STATION 3 / TRANSECT IV
1 /30/76 755 CST


TEMPERATURE (DEG. C.) ✕
SALINITY (PPT) ⓪
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 4 / TRANSECT IV
1 /30/76 1913 CST

HYDROGRAPHIC CAST DATA STATION 6 / TRANSECT IV
1/30/76 1225 CST SAMPLE CODE JBH

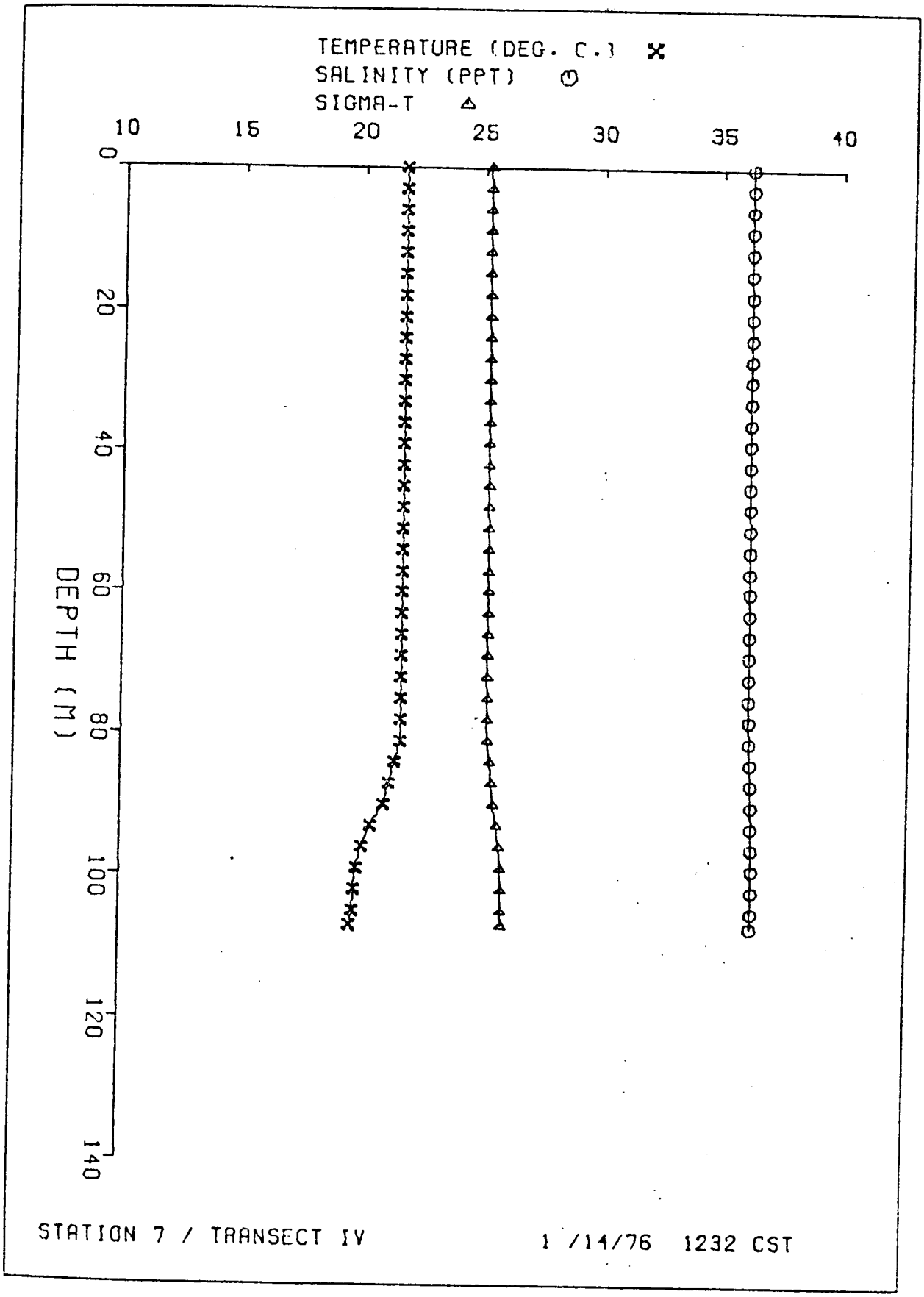
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	20.36	35.91	25.38	260.3	0.00	0.00	1524.2	19.9
3.0	20.32	35.91	25.39	259.8	.08	.00	1524.1	16.6
6.0	20.31	35.91	25.40	259.5	.16	.00	1524.1	12.3
9.0	20.32	35.92	25.40	259.3	.23	.01	1524.2	28.3
12.0	20.47	36.02	25.43	256.0	.31	.02	1524.8	46.6
15.0	20.65	36.17	25.50	249.5	.39	.03	1525.5	30.6
18.0	20.68	36.15	25.48	251.9	.46	.04	1525.6	0.0
21.0	20.66	36.16	25.49	250.8	.54	.06	1525.6	16.5
24.0	20.66	36.16	25.49	250.9	.61	.07	1525.7	0.0
27.0	20.67	36.16	25.49	251.2	.69	.09	1525.7	0.0
30.0	20.70	36.17	25.49	251.5	.77	.12	1525.9	4.9
33.0	20.72	36.18	25.49	251.3	.84	.14	1526.0	0.0
36.0	20.73	36.18	25.49	251.8	.92	.17	1526.1	5.7
39.0	20.74	36.19	25.49	251.4	.99	.20	1526.2	8.5
42.0	20.75	36.19	25.49	251.7	1.07	.23	1526.2	13.6
45.0	20.76	36.21	25.50	250.8	1.14	.26	1526.3	13.6
48.0	20.77	36.21	25.50	251.1	1.22	.30	1526.4	0.0
51.0	20.78	36.21	25.50	251.4	1.30	.34	1526.5	28.8
54.0	20.78	36.27	25.54	247.5	1.37	.38	1526.6	28.8
57.0	20.79	36.27	25.54	247.8	1.44	.42	1526.7	0.0
60.0	20.79	36.27	25.54	247.9	1.52	.46	1526.7	0.0


TEMPERATURE (DEG. C.) X
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 6 / TRANSECT IV
1 /30/76 1225 CST

HYDROGRAPHIC CAST DATA STATION 7 / TRANSECT IV

1/14/76 1232 CST SAMPLE CODE JBK

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	21.70	36.18	25.22	275.5	0.00	0.00	1528.0	24.3
3.0	21.70	36.20	25.24	274.5	.08	.00	1528.1	17.2
6.0	21.70	36.20	25.24	274.6	.17	.01	1528.1	7.3
9.0	21.69	36.20	25.24	274.5	.25	.01	1528.2	7.3
12.0	21.69	36.20	25.24	274.6	.33	.02	1528.2	0.0
15.0	21.69	36.20	25.24	274.7	.41	.03	1528.3	17.2
18.0	21.69	36.22	25.25	273.5	.50	.05	1528.3	17.2
21.0	21.69	36.22	25.25	273.6	.58	.06	1528.4	12.1
24.0	21.69	36.23	25.26	273.0	.66	.08	1528.3	12.1
27.0	21.69	36.23	25.26	273.1	.74	.10	1528.5	0.0
30.0	21.69	36.23	25.26	273.2	.82	.13	1528.6	0.0
33.0	21.69	36.23	25.26	273.3	.91	.15	1528.6	0.0
36.0	21.69	36.23	25.26	273.5	.99	.18	1528.6	12.1
39.0	21.69	36.24	25.27	272.9	1.07	.21	1528.7	12.1
42.0	21.69	36.24	25.27	273.0	1.15	.25	1528.8	12.1
45.0	21.69	36.25	25.28	272.5	1.23	.28	1528.8	17.2
48.0	21.69	36.26	25.28	271.9	1.32	.32	1528.9	17.2
51.0	21.69	36.27	25.29	271.3	1.40	.37	1528.9	17.2
54.0	21.69	36.28	25.30	270.8	1.48	.41	1529.0	12.1
57.0	21.69	36.28	25.30	270.9	1.56	.46	1529.0	12.1
60.0	21.69	36.29	25.30	270.3	1.64	.50	1529.1	17.2
63.0	21.69	36.30	25.31	269.7	1.72	.56	1529.2	12.1
66.0	21.69	36.30	25.31	269.9	1.81	.61	1529.2	0.0
69.0	21.69	36.30	25.31	270.0	1.89	.67	1529.3	0.0
72.0	21.69	36.30	25.31	270.1	1.97	.72	1529.3	9.7
75.0	21.70	36.31	25.32	269.8	2.05	.79	1529.4	15.5
78.0	21.70	36.32	25.32	269.2	2.13	.85	1529.5	22.3
81.0	21.69	36.33	25.34	267.7	2.21	.91	1529.5	49.2
84.0	21.46	36.38	25.44	258.2	2.29	.98	1529.0	60.9
87.0	21.22	36.40	25.52	250.8	2.37	1.05	1528.5	58.1
90.0	21.02	36.44	25.60	242.8	2.44	1.12	1528.0	70.3
93.0	20.47	36.45	25.76	228.2	2.51	1.18	1526.6	75.7
96.0	20.12	36.48	25.88	216.5	2.58	1.25	1525.8	61.9
99.0	19.91	36.49	25.95	210.7	2.64	1.31	1525.3	43.9
102.0	19.82	36.50	25.98	207.8	2.71	1.38	1525.1	30.2
105.0	19.77	36.50	25.99	206.7	2.77	1.44	1525.0	28.3
107.0	19.65	36.48	26.01	205.1	2.81	1.49	1524.7	33.0

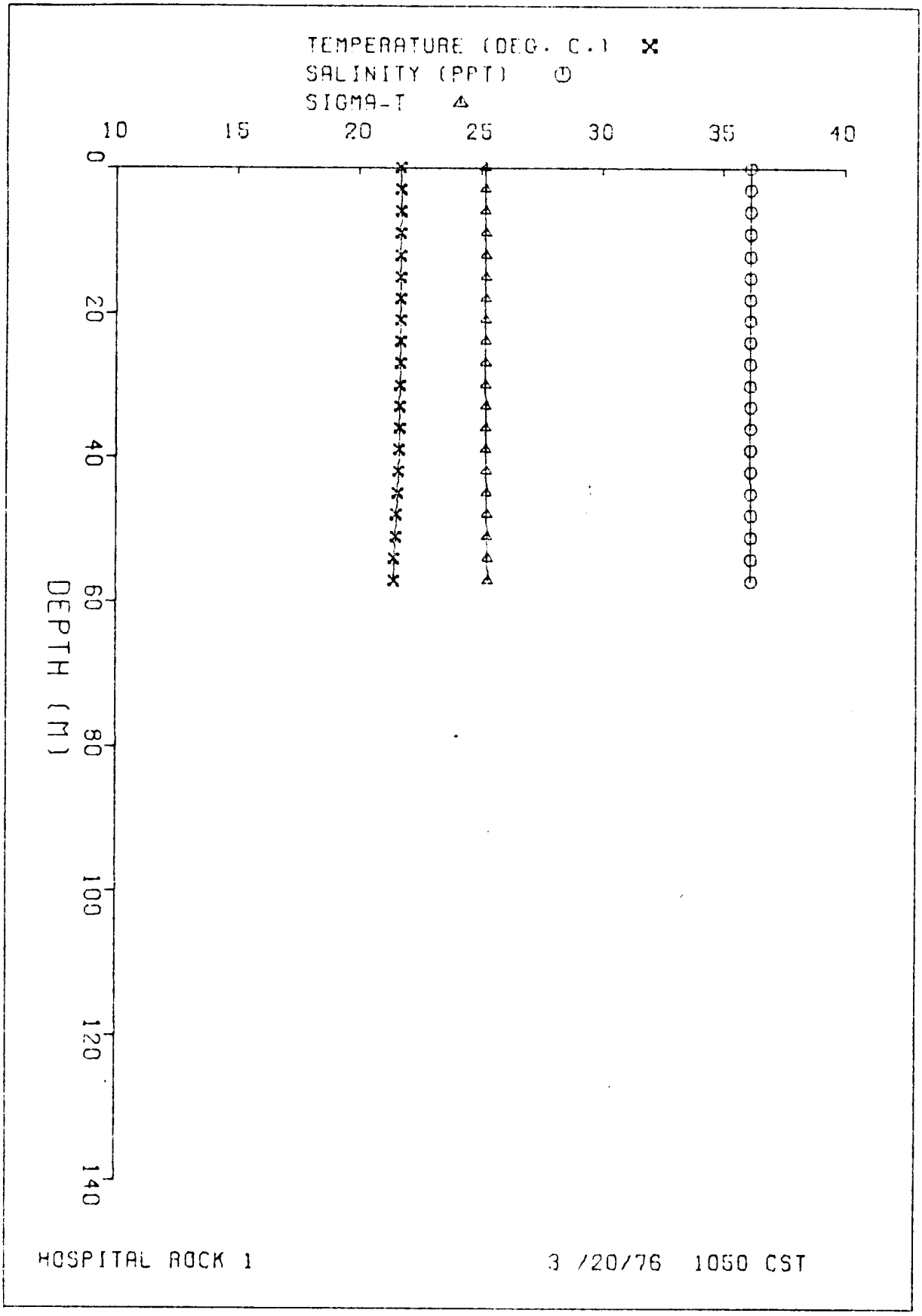

TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ○
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 7 / TRANSECT IV
1 /14/76 1232 CST

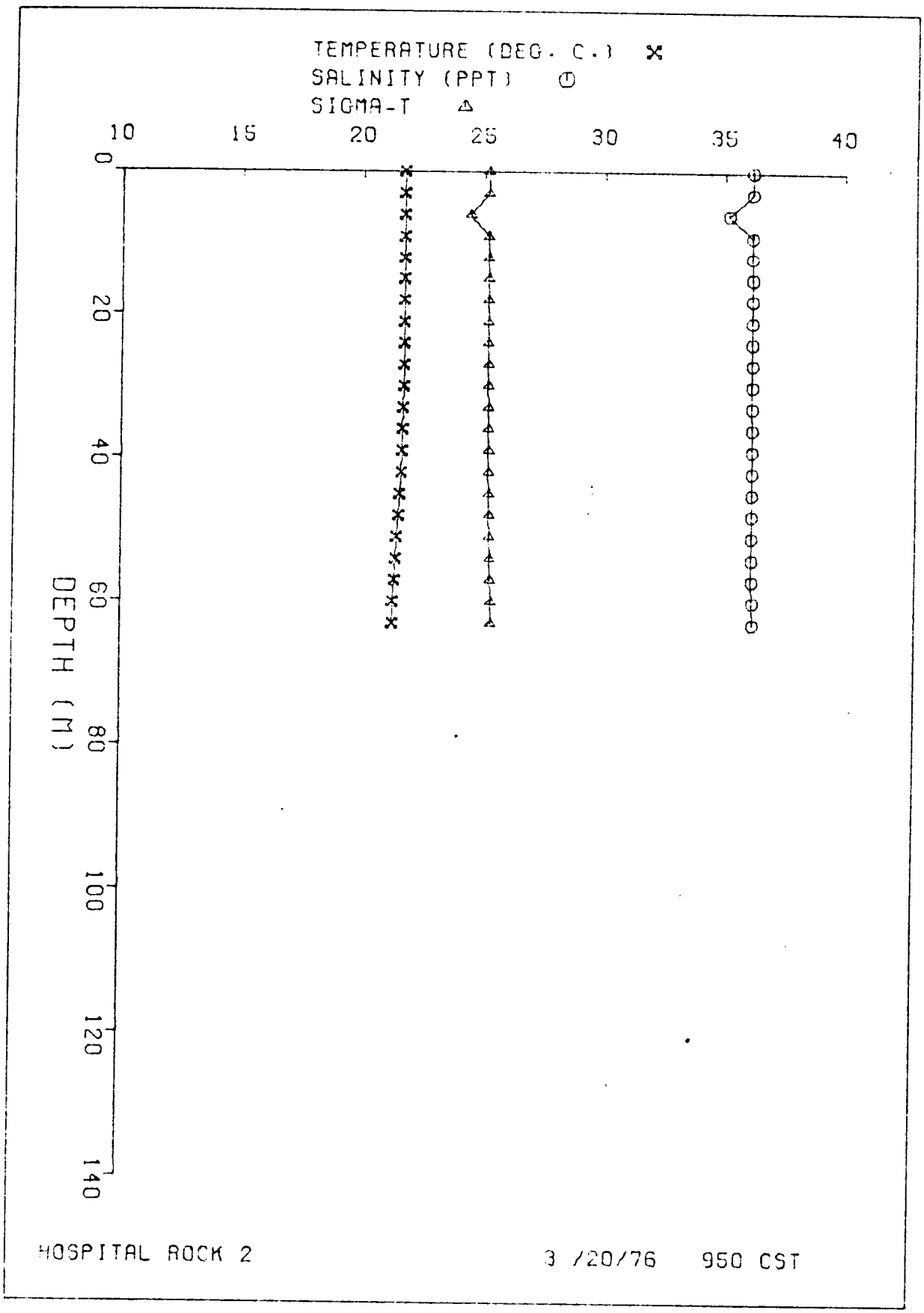
HYDROGRAPHIC CAST DATA HOSPITAL ROCK 1
3/20/76 1050 CST SAMPLE CODE JQN

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	21,68	36,12	25,18	279,6	0,00	0,00	1527,9	0,0
3,0	21,69	36,12	25,18	280,2	,08	,00	1528,0	0,0
6,0	21,69	36,12	25,18	280,3	,17	,01	1528,0	14,6
9,0	21,68	36,13	25,19	279,4	,25	,01	1528,1	14,6
12,0	21,68	36,13	25,19	279,6	,34	,02	1528,1	0,0
15,0	21,68	36,13	25,19	279,7	,42	,03	1528,2	0,0
18,0	21,68	36,13	25,19	279,8	,50	,05	1528,2	0,0
21,0	21,68	36,13	25,19	279,9	,59	,06	1528,3	0,0
24,0	21,68	36,13	25,19	280,0	,67	,08	1528,3	0,0
27,0	21,68	36,13	25,19	280,1	,76	,10	1528,4	10,7
30,0	21,66	36,13	25,19	279,7	,84	,13	1528,4	18,1
33,0	21,65	36,14	25,20	278,8	,93	,16	1528,4	14,6
36,0	21,65	36,14	25,20	279,0	1,01	,19	1528,4	10,7
39,0	21,63	36,14	25,21	278,5	1,09	,22	1528,4	16,9
42,0	21,60	36,14	25,22	277,9	1,18	,25	1528,4	21,0
45,0	21,58	36,15	25,23	276,7	1,26	,29	1528,4	27,8
48,0	21,52	36,16	25,25	274,5	1,34	,33	1528,3	24,8
51,0	21,50	36,16	25,26	274,1	1,43	,37	1528,3	23,9
54,0	21,42	36,16	25,28	272,1	1,51	,42	1528,2	24,8
57,0	21,42	36,17	25,29	271,5	1,59	,46	1528,2	17,7

HYDROGRAPHIC CAST DATA HOSPITAL ROCK 2
3/20/76 950 CST SAMPLE CODE JQP

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	21,70	36,13	25,18	279,6	0,00	0,00	1528,0	0,0
3,0	21,70	36,12	25,17	280,7	,08	,00	1528,0	0,0
6,0	21,70	35,12	24,41	353,1	,18	,01	1526,9	0,0
9,0	21,70	36,12	25,17	280,9	,27	,01	1528,1	125,1
12,0	21,70	36,12	25,17	281,0	,36	,02	1528,1	12,5
15,0	21,70	36,13	25,18	280,4	,44	,03	1528,2	12,5
18,0	21,70	36,13	25,18	280,5	,53	,05	1528,3	0,0
21,0	21,70	36,13	25,18	280,7	,61	,06	1528,3	0,0
24,0	21,70	36,13	25,18	280,8	,70	,08	1528,4	12,5
27,0	21,70	36,14	25,19	280,2	,78	,11	1528,4	12,5
30,0	21,70	36,14	25,19	280,3	,86	,13	1528,5	13,1
33,0	21,67	36,14	25,20	279,6	,95	,16	1528,4	21,1
36,0	21,65	36,15	25,21	278,5	1,03	,19	1528,4	19,6
39,0	21,63	36,15	25,21	278,0	1,12	,22	1528,4	15,1
42,0	21,61	36,15	25,22	277,6	1,20	,25	1528,4	22,7
45,0	21,54	36,15	25,24	275,9	1,28	,29	1528,3	25,1
48,0	21,50	36,15	25,25	274,9	1,37	,33	1528,3	25,1
51,0	21,43	36,15	25,27	273,2	1,45	,37	1528,1	27,0
54,0	21,40	36,16	25,29	271,8	1,53	,42	1528,1	27,7
57,0	21,35	36,17	25,31	269,9	1,61	,46	1528,0	36,9
60,0	21,27	36,20	25,35	265,7	1,69	,51	1527,9	32,9
63,0	21,27	36,21	25,36	265,1	1,77	,56	1528,0	17,7


TEMPERATURE (DEG. C.) ✕
SALINITY (PPT) ⏀
SIGMA-T ⏃
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
HOSPITAL ROCK 1
3 /20/76 1050 CST

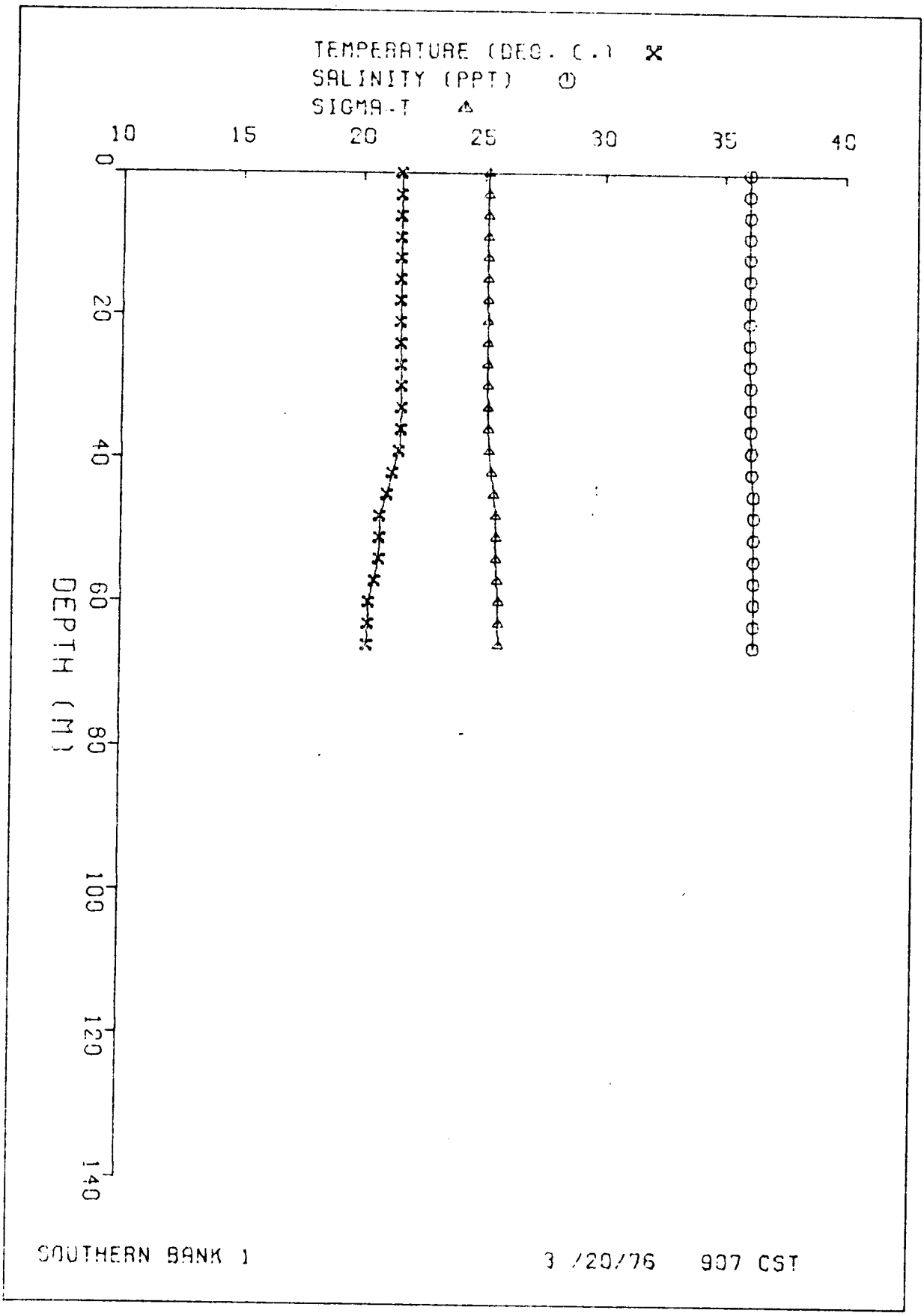

TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
HOSPITAL ROCK 2
3 /20/76 950 CST

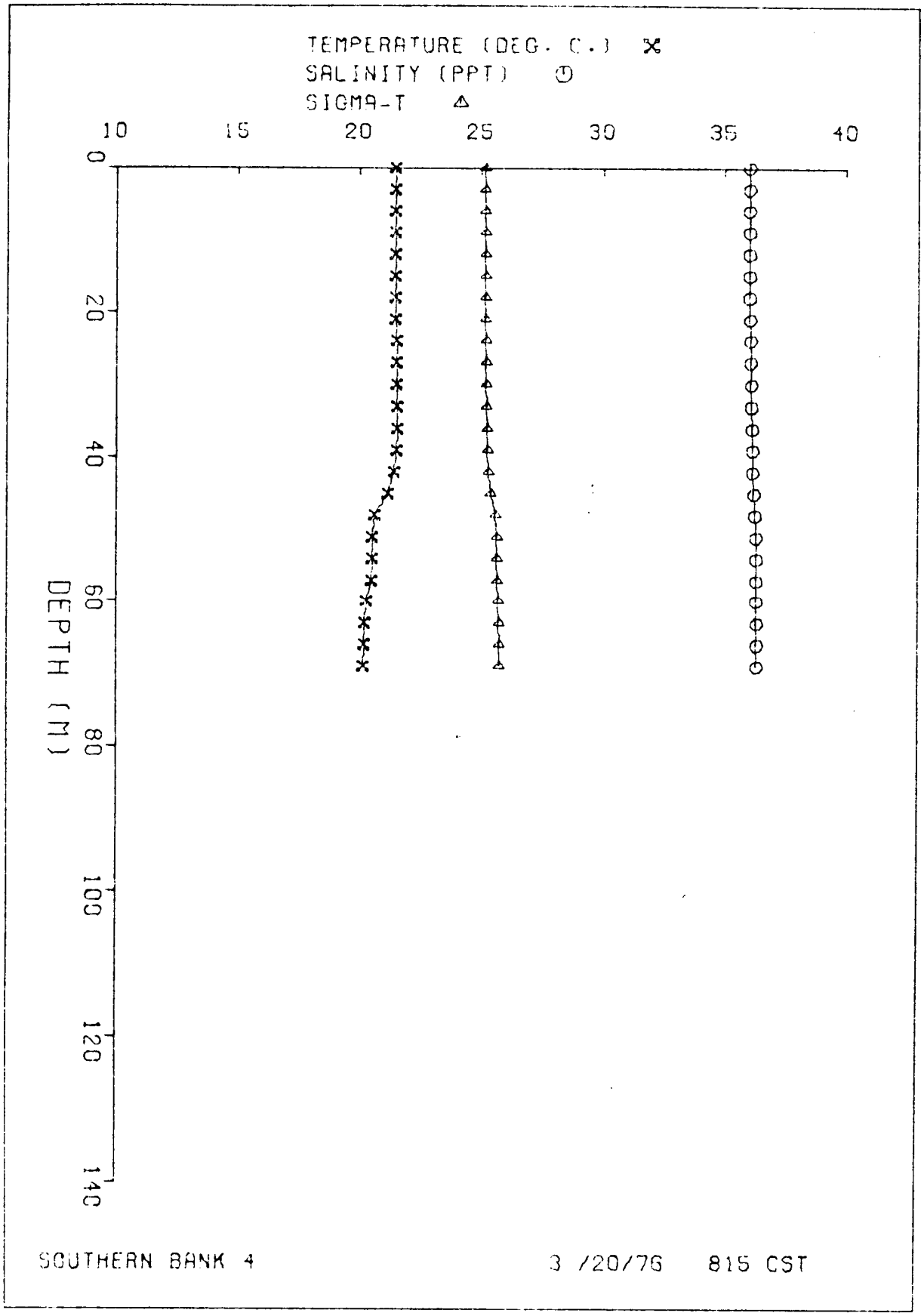
HYDROGRAPHIC CAST DATA SOUTHERN BANK 1
3/20/76 907 CST SAMPLE CODE JKD

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT' EN	SOUND VEL	BV FRQ
0,0	21,54	36,04	25,15	282,0	0,00	0,00	1527,4	0,0
3,0	21,54	36,04	25,15	282,4	,08	,00	1527,5	12,5
6,0	21,54	36,05	25,16	281,8	,17	,01	1527,6	12,5
9,0	21,54	36,05	25,16	281,9	,25	,01	1527,6	0,0
12,0	21,54	36,05	25,16	282,0	,34	,02	1527,6	0,0
15,0	21,54	36,05	25,16	282,1	,42	,03	1527,7	0,0
18,0	21,54	36,05	25,16	282,2	,51	,05	1527,7	12,5
21,0	21,54	36,06	25,17	281,6	,59	,06	1527,8	14,1
24,0	21,56	36,07	25,17	281,5	,68	,08	1527,9	11,9
27,0	21,57	36,08	25,18	281,2	,76	,11	1528,0	21,3
30,0	21,59	36,11	25,19	279,7	,85	,13	1528,1	23,5
33,0	21,61	36,13	25,20	278,9	,93	,16	1528,3	21,7
36,0	21,59	36,14	25,22	277,7	1,02	,19	1528,3	36,0
39,0	21,52	36,18	25,27	273,1	1,10	,22	1528,2	55,6
42,0	21,24	36,21	25,37	263,7	1,18	,25	1527,5	65,5
45,0	21,04	36,28	25,47	253,5	1,26	,29	1527,1	63,8
48,0	20,74	36,29	25,56	245,1	1,33	,32	1526,4	44,7
51,0	20,74	36,30	25,57	244,5	1,41	,36	1526,5	16,4
54,0	20,72	36,30	25,58	244,1	1,48	,40	1526,5	35,6
57,0	20,54	36,31	25,63	238,8	1,55	,44	1526,1	49,9
60,0	20,30	36,31	25,70	232,8	1,62	,48	1525,5	37,2
63,0	20,29	36,31	25,70	232,7	1,69	,53	1525,5	18,2
66,0	20,24	36,31	25,71	231,5	1,76	,57	1525,4	23,5

HYDROGRAPHIC CAST DATA SOUTHERN BANK 4
3/20/76 815 CST SAMPLE CODE JRQ

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	21,46	36,00	25,15	282,4	0,00	0,00	1527,2	0,0
3,0	21,46	36,00	25,15	282,8	,08	,00	1527,2	0,0
6,0	21,46	36,00	25,15	282,9	,17	,01	1527,3	12,5
9,0	21,46	36,01	25,16	282,3	,26	,01	1527,4	12,5
12,0	21,46	36,01	25,16	282,4	,34	,02	1527,4	0,0
15,0	21,46	36,01	25,16	282,5	,42	,03	1527,5	0,0
18,0	21,46	36,01	25,16	282,6	,51	,05	1527,5	12,5
21,0	21,46	36,02	25,16	282,0	,59	,06	1527,6	22,3
24,0	21,51	36,06	25,18	280,6	,68	,08	1527,8	18,5
27,0	21,51	36,06	25,18	280,7	,76	,11	1527,8	16,0
30,0	21,52	36,08	25,19	279,6	,85	,13	1527,9	22,6
33,0	21,53	36,10	25,21	278,6	,93	,16	1528,0	25,9
36,0	21,54	36,13	25,23	276,8	1,02	,19	1528,1	29,9
39,0	21,51	36,15	25,25	274,6	1,10	,22	1528,1	32,5
42,0	21,41	36,15	25,28	272,1	1,18	,25	1527,9	52,7
45,0	21,16	36,20	25,38	262,1	1,26	,29	1527,4	77,9
48,0	20,61	36,25	25,57	244,3	1,34	,33	1526,0	71,4
51,0	20,53	36,30	25,63	238,7	1,41	,36	1525,9	37,2
54,0	20,53	36,31	25,64	238,1	1,48	,40	1526,0	19,5
57,0	20,49	36,31	25,65	237,2	1,55	,44	1525,9	36,4
60,0	20,29	36,31	25,70	232,2	1,62	,48	1525,4	41,3
63,0	20,21	36,32	25,73	229,6	1,69	,53	1525,3	26,6
66,0	20,19	36,32	25,74	229,2	1,76	,57	1525,3	16,6
69,0	20,16	36,32	25,75	228,5	1,83	,62	1525,2	18,2


TEMPERATURE (DEG. C.) X
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
SOUTHERN BANK 1
3 /20/76 907 CST


TEMPERATURE (DEG. C.) ✕
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
SOUTHERN BANK 4
3 /20/76 815 CST

HYDROGRAPHIC CAST DATA STATION 1 / TRANSECT II
3/18/76 1155 CST SAMPLE CODE JKB

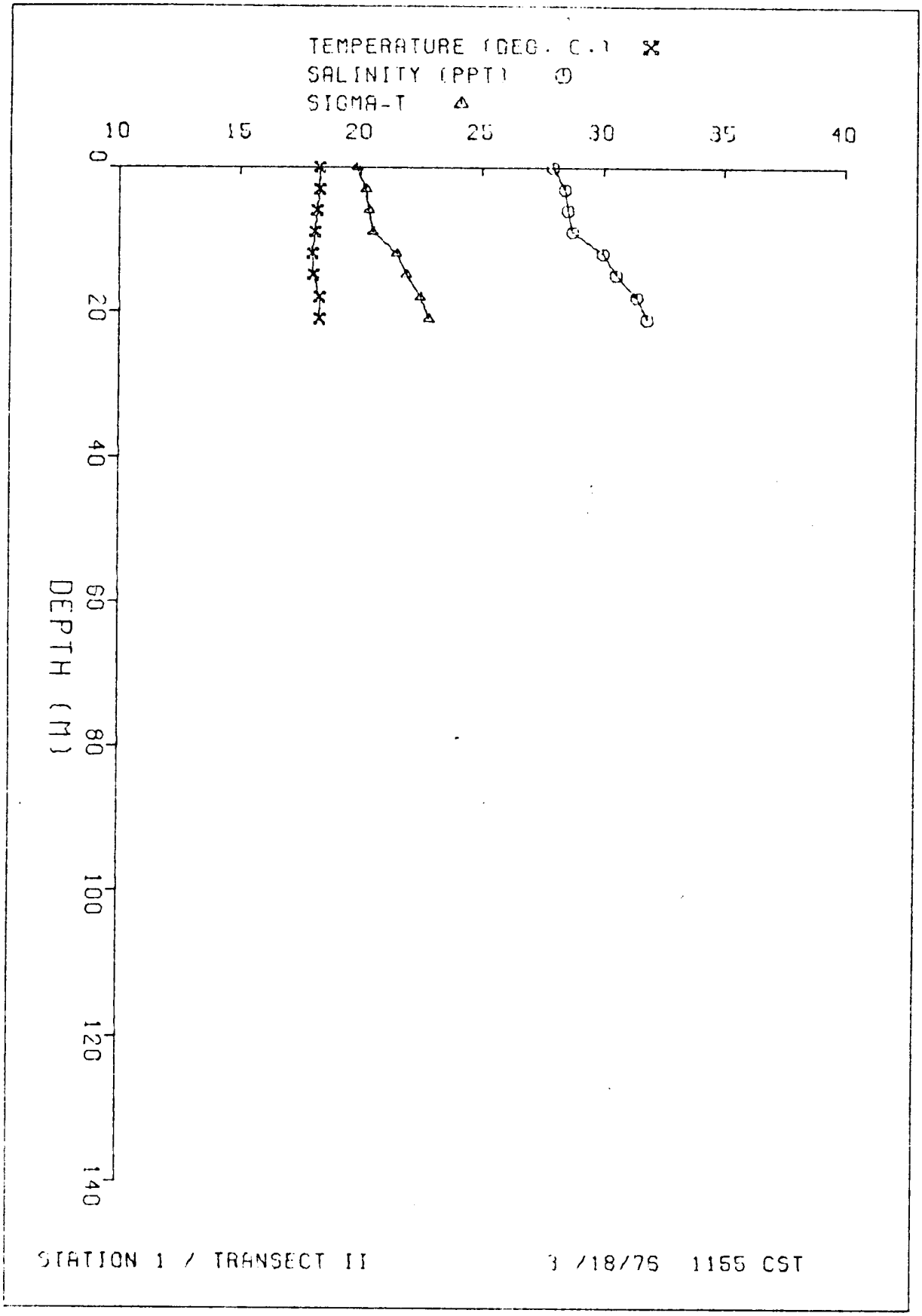
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	18.29	27.91	19.82	792.3	0.00	0.00	1509.0	126.7
3.0	18.29	28.42	20.21	755.3	.23	.00	1509.6	102.0
6.0	18.19	28.54	20.32	744.4	.46	.01	1509.5	76.6
9.0	18.09	28.73	20.49	728.3	.68	.03	1509.5	154.9
12.0	17.99	30.00	21.48	633.4	.88	.05	1510.7	170.0
15.0	18.04	30.55	21.89	594.5	1.06	.08	1511.6	143.3
18.0	18.29	31.40	22.48	538.4	1.23	.11	1513.4	138.0
21.0	18.29	31.84	22.81	506.4	1.39	.14	1513.9	117.7

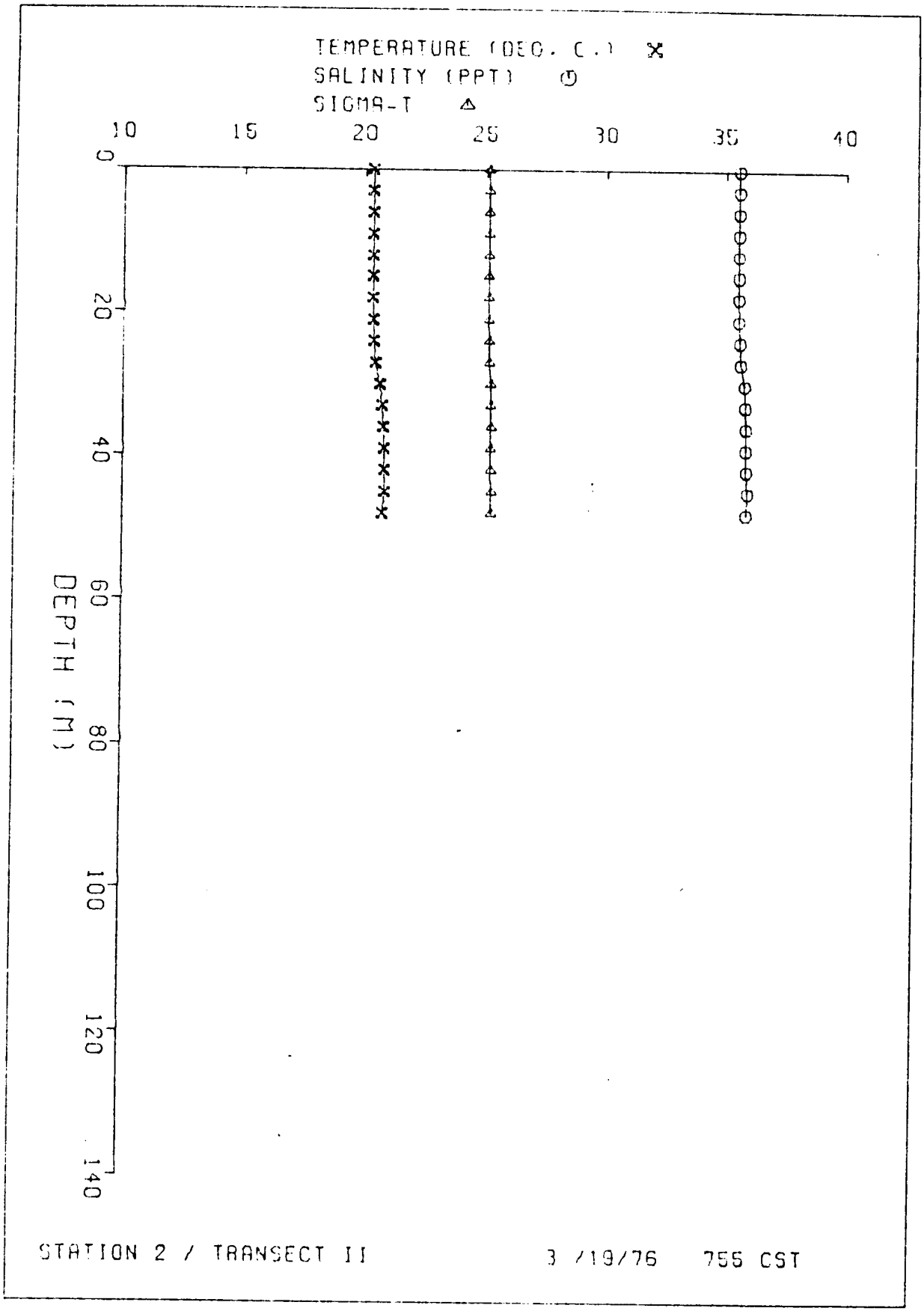
HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT II
3/19/76 755 CST SAMPLE CODE JLX

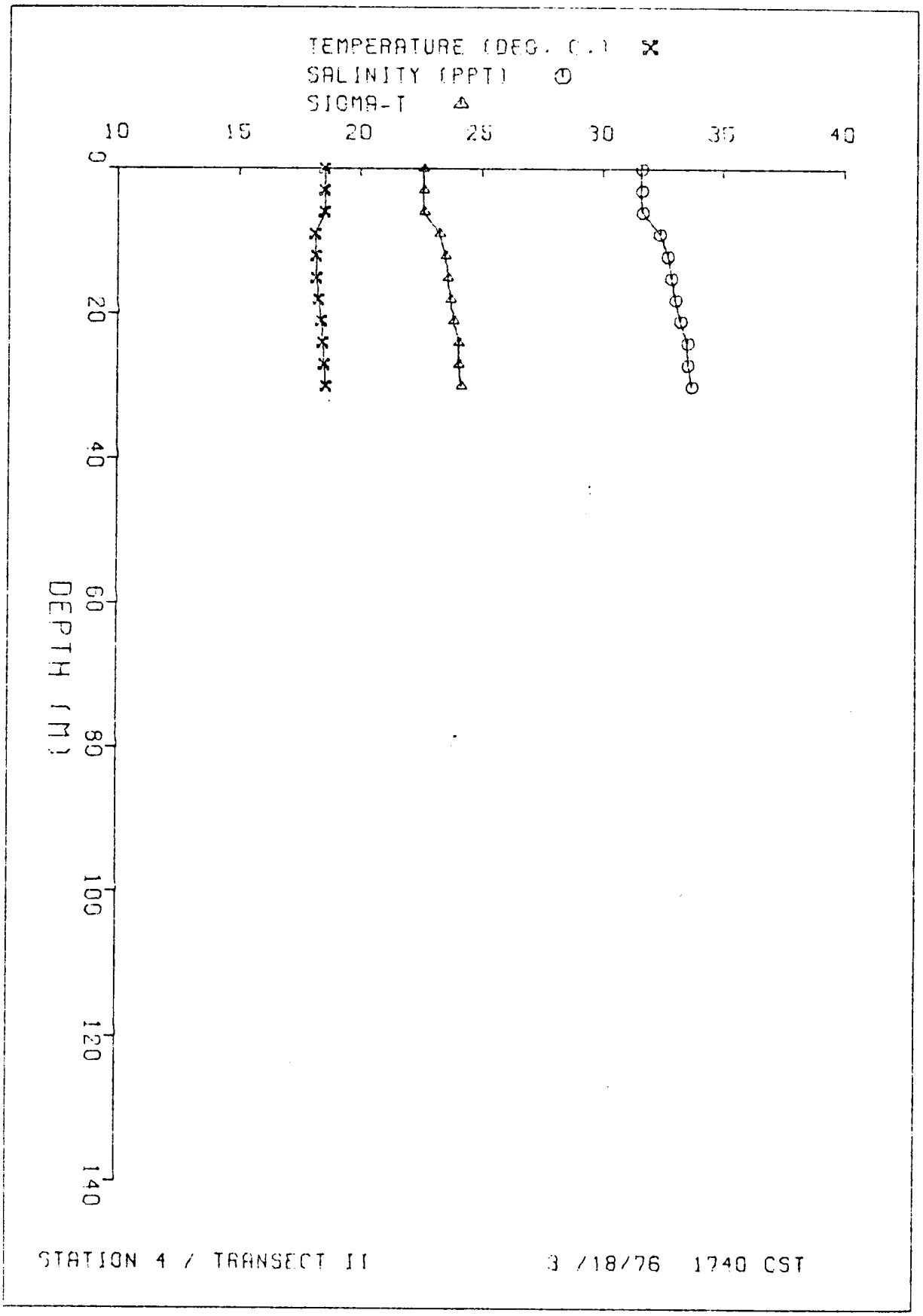
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	20.32	35.53	25.11	286.7	0.00	0.00	1523.6	0.0
3.0	20.32	35.53	25.11	287.0	.09	.00	1523.7	0.0
6.0	20.32	35.53	25.11	287.1	.17	.01	1523.7	0.0
9.0	20.32	35.53	25.11	287.3	.26	.01	1523.8	0.0
12.0	20.32	35.53	25.11	287.4	.35	.02	1523.8	0.0
15.0	20.32	35.53	25.11	287.5	.43	.03	1523.9	0.0
18.0	20.32	35.53	25.11	287.6	.52	.05	1523.9	10.2
21.0	20.34	35.55	25.11	287.2	.60	.07	1524.0	28.5
24.0	20.37	35.60	25.14	284.1	.69	.08	1524.2	31.0
27.0	20.45	35.65	25.16	283.0	.78	.11	1524.5	42.9
30.0	20.63	35.81	25.23	275.8	.86	.13	1525.3	40.9
33.0	20.74	35.86	25.24	275.6	.94	.16	1525.7	14.9
36.0	20.79	35.88	25.24	275.0	1.03	.19	1525.9	0.0
39.0	20.82	35.88	25.24	275.9	1.11	.22	1526.0	0.0
42.0	20.84	35.90	25.24	275.6	1.19	.25	1526.1	30.3
45.0	20.85	35.95	25.28	271.9	1.27	.29	1526.3	26.2
48.0	20.76	35.91	25.27	272.6	1.36	.33	1526.0	0.0

HYDROGRAPHIC CAST DATA STATION 4 / TRANSECT II
3/18/76 1740 CST SAMPLE CODE JQE

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	18.49	31.61	22.59	526.8	0.00	0.00	1513.9	0.0
3.0	18.49	31.61	22.59	527.1	.16	.00	1513.9	21.7
6.0	18.49	31.64	22.61	525.1	.32	.01	1514.0	118.2
9.0	18.09	32.37	23.26	462.6	.46	.02	1513.8	135.8
12.0	18.14	32.70	23.50	439.9	.60	.04	1514.4	84.9
15.0	18.16	32.85	23.61	429.5	.73	.05	1514.6	67.3
18.0	18.24	33.02	23.72	419.1	.86	.07	1515.1	69.4
21.0	18.36	33.22	23.85	407.5	.98	.10	1515.8	83.4
24.0	18.42	33.52	24.06	387.2	1.10	.13	1516.3	66.1
27.0	18.49	33.54	24.06	387.5	1.22	.16	1516.6	47.7
30.0	18.56	33.71	24.17	376.9	1.33	.19	1517.1	68.0

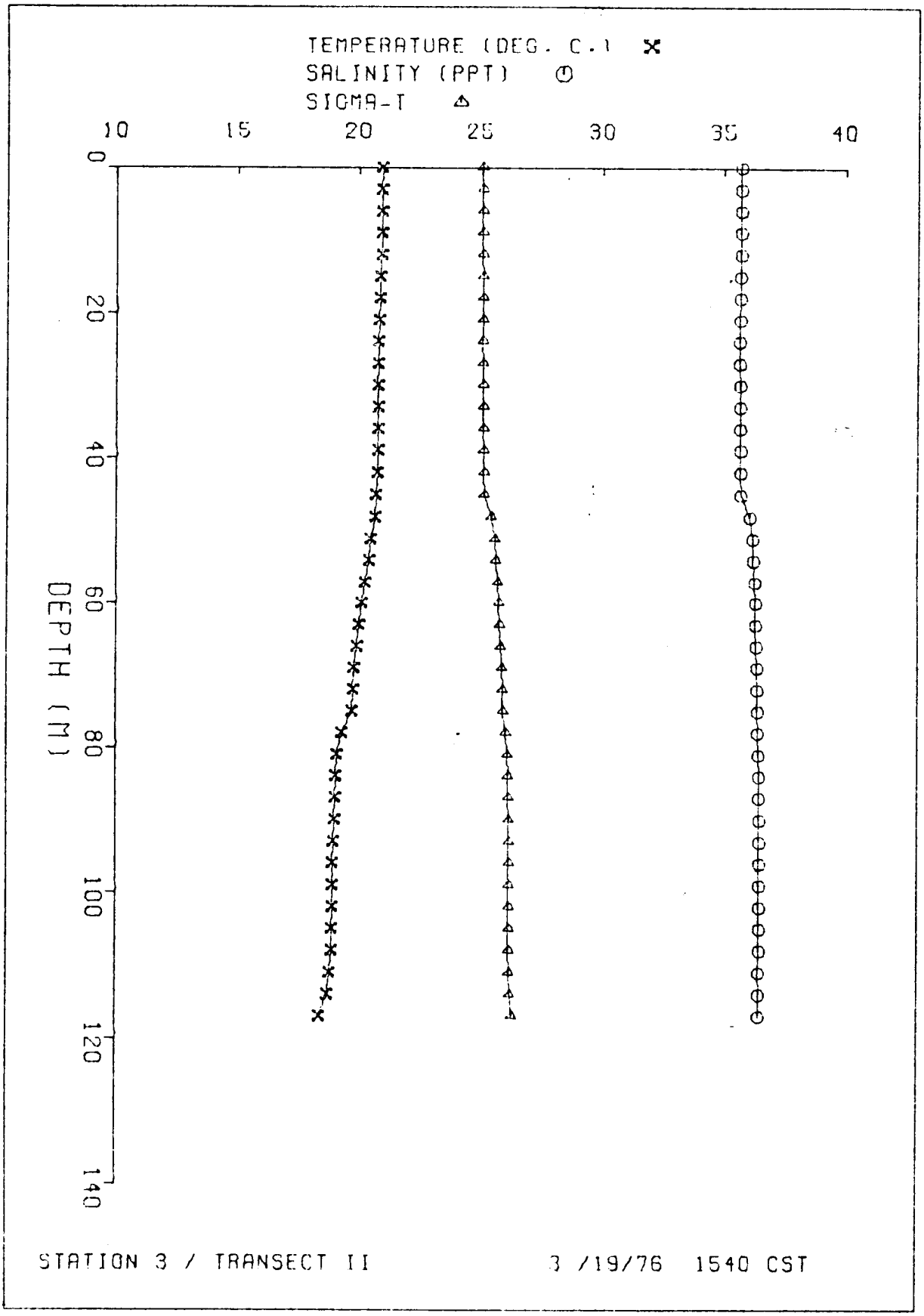

TEMPERATURE (DEG. C.) X
SALINITY (PPT) O
SIGMA-T Δ
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 1 / TRANSECT II
3 /18/76 1155 CST


TEMPERATURE (DEG. C.) X
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 2 / TRANSECT II
3 /19/76 755 CST


TEMPERATURE (DEG. C.)
SALINITY (PPT)
SIGMA-T
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 4 / TRANSECT II
3 /18/76 1740 CST

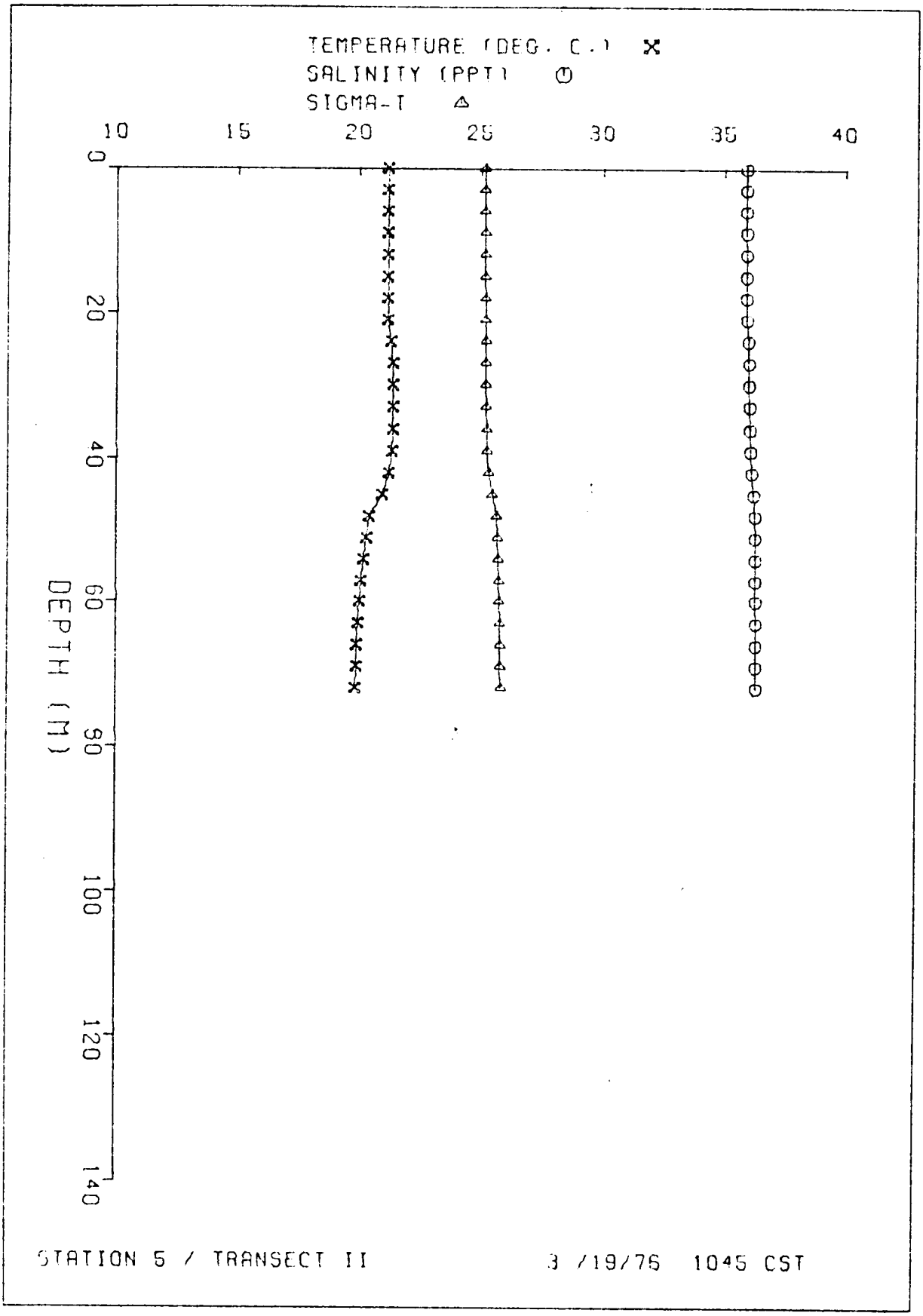
HYDROGRAPHIC CAST DATA STATION 3 / TRANSECT II
3/19/76 1540 CST SAMPLE CODE JNU

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	20,92	35,65	25,03	293,4	0,00	0,00	1525,4	17,8
3,0	20,89	35,65	25,04	293,1	,09	,00	1525,3	12,6
6,0	20,89	35,65	25,04	293,2	,18	,01	1525,4	0,0
9,0	20,89	35,65	25,04	293,3	,26	,01	1525,4	0,0
12,0	20,89	35,65	25,04	293,4	,35	,02	1525,5	9,0
15,0	20,84	35,64	25,05	293,1	,44	,03	1525,4	13,6
18,0	20,83	35,64	25,05	292,8	,53	,05	1525,4	8,9
21,0	20,80	35,63	25,05	293,0	,62	,07	1525,4	-0,0
24,0	20,77	35,61	25,04	294,1	,71	,09	1525,3	5,2
27,0	20,76	35,62	25,05	293,1	,79	,11	1525,3	25,6
30,0	20,75	35,64	25,07	291,3	,88	,14	1525,4	20,5
33,0	20,75	35,64	25,07	291,4	,97	,16	1525,4	0,0
36,0	20,75	35,64	25,07	291,5	1,06	,19	1525,5	13,6
39,0	20,75	35,65	25,08	290,7	1,14	,23	1525,6	21,7
42,0	20,73	35,66	25,09	289,5	1,23	,26	1525,6	28,1
45,0	20,67	35,68	25,12	287,3	1,32	,30	1525,5	81,2
48,0	20,64	36,05	25,41	259,3	1,40	,34	1525,9	95,2
51,0	20,47	36,18	25,56	245,7	1,48	,38	1525,6	59,7
54,0	20,39	36,19	25,59	243,0	1,55	,42	1525,5	49,1
57,0	20,23	36,25	25,68	234,8	1,62	,46	1525,2	55,1
60,0	20,11	36,29	25,73	229,3	1,69	,50	1524,9	43,0
63,0	19,99	36,29	25,76	226,5	1,76	,55	1524,7	38,8
66,0	19,90	36,31	25,81	222,5	1,83	,59	1524,5	45,3
69,0	19,79	36,35	25,86	217,2	1,89	,64	1524,3	41,1
72,0	19,76	36,37	25,89	214,9	1,96	,68	1524,3	31,0
75,0	19,71	36,38	25,91	213,0	2,02	,73	1524,2	53,9
78,0	19,29	36,39	26,03	201,7	2,09	,78	1523,1	63,5
81,0	19,10	36,43	26,11	194,6	2,15	,83	1522,6	46,7
84,0	19,05	36,45	26,14	191,9	2,20	,88	1522,6	26,8
87,0	19,03	36,45	26,14	191,5	2,26	,93	1522,6	20,8
90,0	19,00	36,46	26,16	190,1	2,32	,98	1522,6	24,2
93,0	18,96	36,46	26,17	189,0	2,38	1,04	1522,5	18,7
96,0	18,94	36,46	26,18	188,7	2,43	1,09	1522,5	10,0
99,0	18,94	36,46	26,18	188,8	2,49	1,15	1522,5	0,0
102,0	18,94	36,46	26,18	188,9	2,55	1,21	1522,6	12,2
105,0	18,91	36,46	26,18	188,3	2,60	1,27	1522,6	12,2
108,0	18,91	36,46	26,18	188,4	2,66	1,33	1522,6	11,3
111,0	18,81	36,44	26,19	187,9	2,72	1,39	1522,4	28,4
114,0	18,72	36,45	26,22	184,9	2,77	1,46	1522,2	49,0
117,0	18,39	36,45	26,31	177,0	2,83	1,52	1521,3	58,7


TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 3 / TRANSECT II
3 /19/76 1540 CST

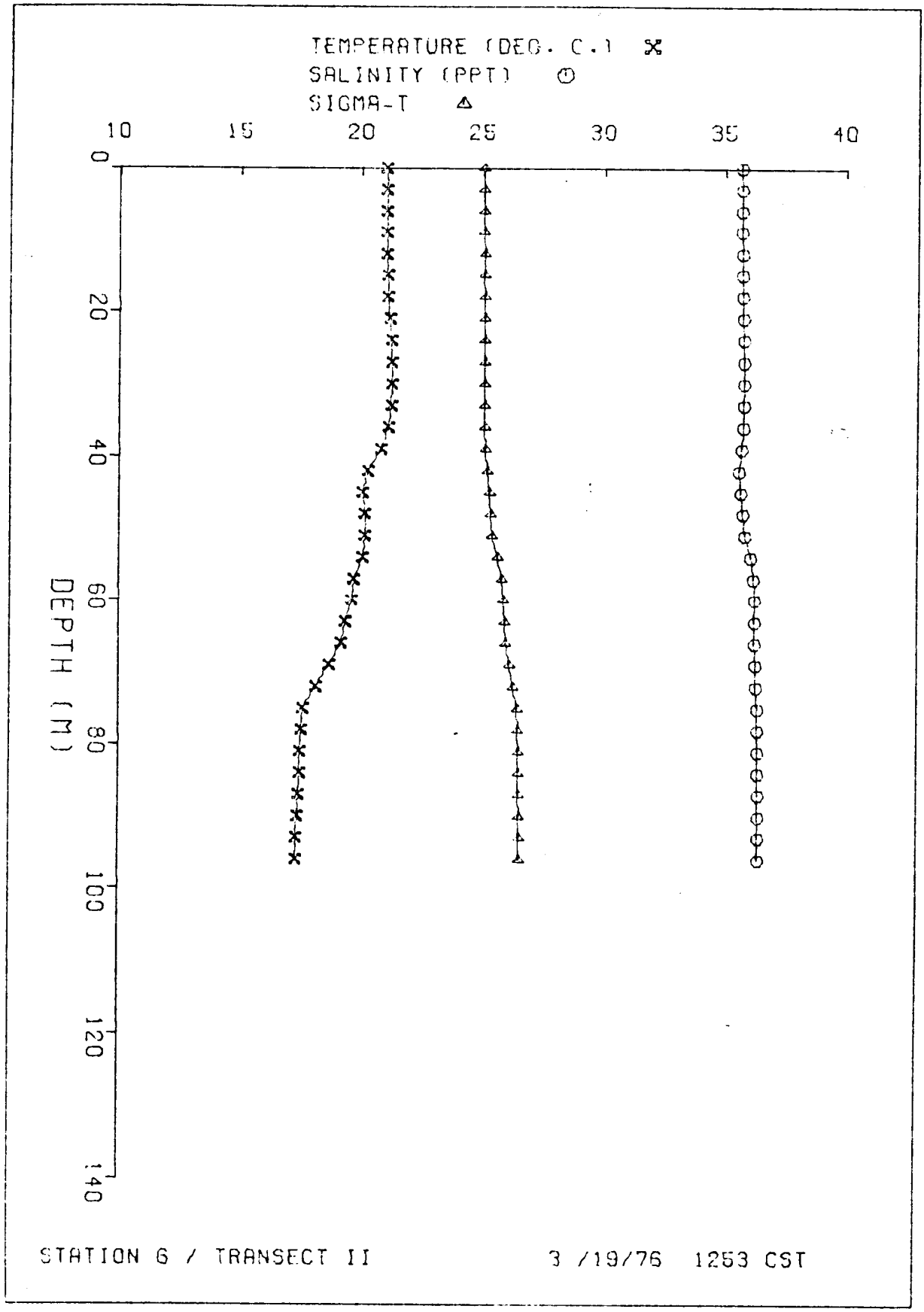
HYDROGRAPHIC CAST DATA STATION 5 / TRANSECT II
3/19/76 1045 CST SAMPLE CODE JQH

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	21.16	35.89	25.15	282.6	0.00	0.00	1526.3	0.0
3.0	21.16	35.89	25.15	283.0	.09	.00	1526.3	0.0
6.0	21.16	35.89	25.15	283.1	.17	.01	1526.4	11.9
9.0	21.16	35.90	25.15	282.6	.26	.01	1526.4	16.8
12.0	21.16	35.91	25.16	282.1	.34	.02	1526.5	11.9
15.0	21.16	35.91	25.16	282.2	.42	.03	1526.5	11.9
18.0	21.16	35.92	25.17	281.6	.51	.05	1526.6	16.8
21.0	21.16	35.92	25.17	281.1	.59	.06	1526.7	23.3
24.0	21.29	36.00	25.19	279.4	.68	.08	1527.1	18.2
27.0	21.38	36.02	25.19	279.8	.76	.11	1527.4	0.0
30.0	21.38	36.02	25.19	279.9	.85	.13	1527.5	16.8
33.0	21.38	36.04	25.20	278.7	.93	.16	1527.6	26.6
36.0	21.38	36.07	25.23	276.9	1.01	.19	1527.6	31.2
39.0	21.35	36.10	25.25	274.4	1.10	.22	1527.7	43.8
42.0	21.21	36.13	25.32	268.2	1.18	.25	1527.4	66.8
45.0	20.94	36.23	25.47	254.1	1.26	.29	1526.8	83.4
48.0	20.40	36.29	25.66	236.3	1.33	.32	1525.5	67.9
51.0	20.29	36.30	25.69	233.0	1.40	.36	1525.3	38.4
54.0	20.19	36.30	25.73	229.7	1.47	.40	1525.0	36.5
57.0	20.08	36.30	25.76	227.0	1.54	.44	1524.8	32.1
60.0	20.02	36.31	25.78	225.1	1.61	.48	1524.7	31.9
63.0	19.97	36.33	25.81	222.6	1.68	.52	1524.6	29.6
66.0	19.91	36.33	25.82	221.3	1.74	.56	1524.5	17.2
69.0	19.91	36.33	25.82	221.4	1.81	.61	1524.6	20.9
72.0	19.86	36.34	25.84	219.5	1.88	.66	1524.5	29.6


TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 5 / TRANSECT II
3 /19/76 1045 CST

HYDROGRAPHIC CAST DATA STATION 6 / TRANSECT II
3/19/76 1253 CST SAMPLE CODE JQK

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	21.00	35.66	25.02	295.1	0.00	0.00	1525.6	19.0
3.0	21.00	35.67	25.03	294.6	.09	.00	1525.7	13.4
6.0	21.00	35.67	25.03	294.7	.18	.01	1525.7	0.0
9.0	21.00	35.67	25.03	294.8	.27	.01	1525.7	23.3
12.0	21.00	35.71	25.05	292.4	.35	.02	1525.8	17.8
15.0	21.04	35.71	25.04	293.6	.44	.03	1526.0	11.6
18.0	21.04	35.73	25.06	292.0	.53	.05	1526.1	12.5
21.0	21.14	35.75	25.05	293.1	.62	.07	1526.4	0.0
24.0	21.20	35.77	25.05	293.1	.71	.09	1526.6	9.4
27.0	21.22	35.79	25.05	292.9	.79	.11	1526.8	8.2
30.0	21.22	35.79	25.05	293.0	.88	.14	1526.8	0.0
33.0	21.20	35.77	25.05	293.4	.97	.16	1526.8	20.8
36.0	21.08	35.76	25.07	291.2	1.06	.20	1526.5	31.5
39.0	20.80	35.69	25.10	289.1	1.15	.23	1525.7	44.4
42.0	20.24	35.59	25.17	282.3	1.23	.26	1524.2	60.5
45.0	20.04	35.66	25.28	272.4	1.32	.30	1523.7	55.5
48.0	20.14	35.75	25.32	268.3	1.40	.34	1524.2	46.5
51.0	20.14	35.83	25.38	262.6	1.48	.38	1524.3	77.3
54.0	20.04	36.10	25.61	241.0	1.55	.42	1524.4	92.1
57.0	19.68	36.21	25.79	223.7	1.62	.46	1523.6	71.5
60.0	19.60	36.27	25.86	217.6	1.69	.50	1523.5	50.6
63.0	19.34	36.26	25.92	212.1	1.75	.54	1522.8	45.5
66.0	19.18	36.26	25.96	208.2	1.82	.58	1522.4	65.0
69.0	18.67	36.30	26.12	192.8	1.88	.63	1521.1	79.7
72.0	18.13	36.32	26.27	179.0	1.93	.67	1519.6	81.6
75.0	17.59	36.37	26.44	162.2	1.98	.70	1518.2	64.4
78.0	17.53	36.38	26.47	160.1	2.03	.74	1518.1	31.1
81.0	17.47	36.40	26.49	157.9	2.08	.78	1517.9	22.0
84.0	17.47	36.40	26.49	158.0	2.13	.82	1518.0	19.6
87.0	17.43	36.41	26.51	156.4	2.18	.86	1517.9	24.2
90.0	17.39	36.41	26.52	155.5	2.22	.91	1517.9	22.4
93.0	17.33	36.41	26.53	154.3	2.27	.95	1517.7	17.3
96.0	17.33	36.41	26.53	154.4	2.32	.99	1517.8	0.0


TEMPERATURE (DEG. C.) X
SALINITY (PPT) O
SIGMA-T Δ
10
15
20
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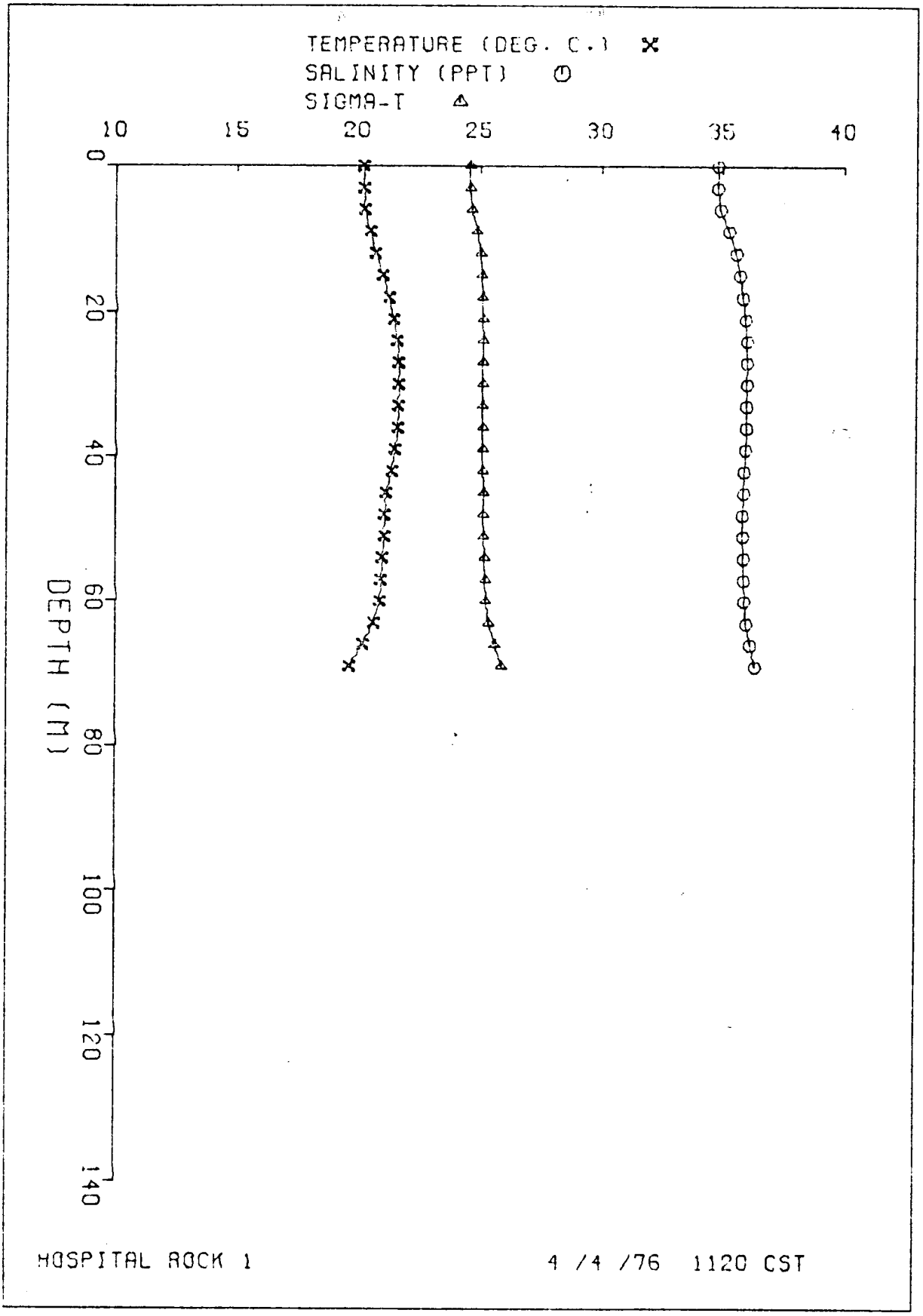
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 6 / TRANSECT II
3 /19/76 1253 CST

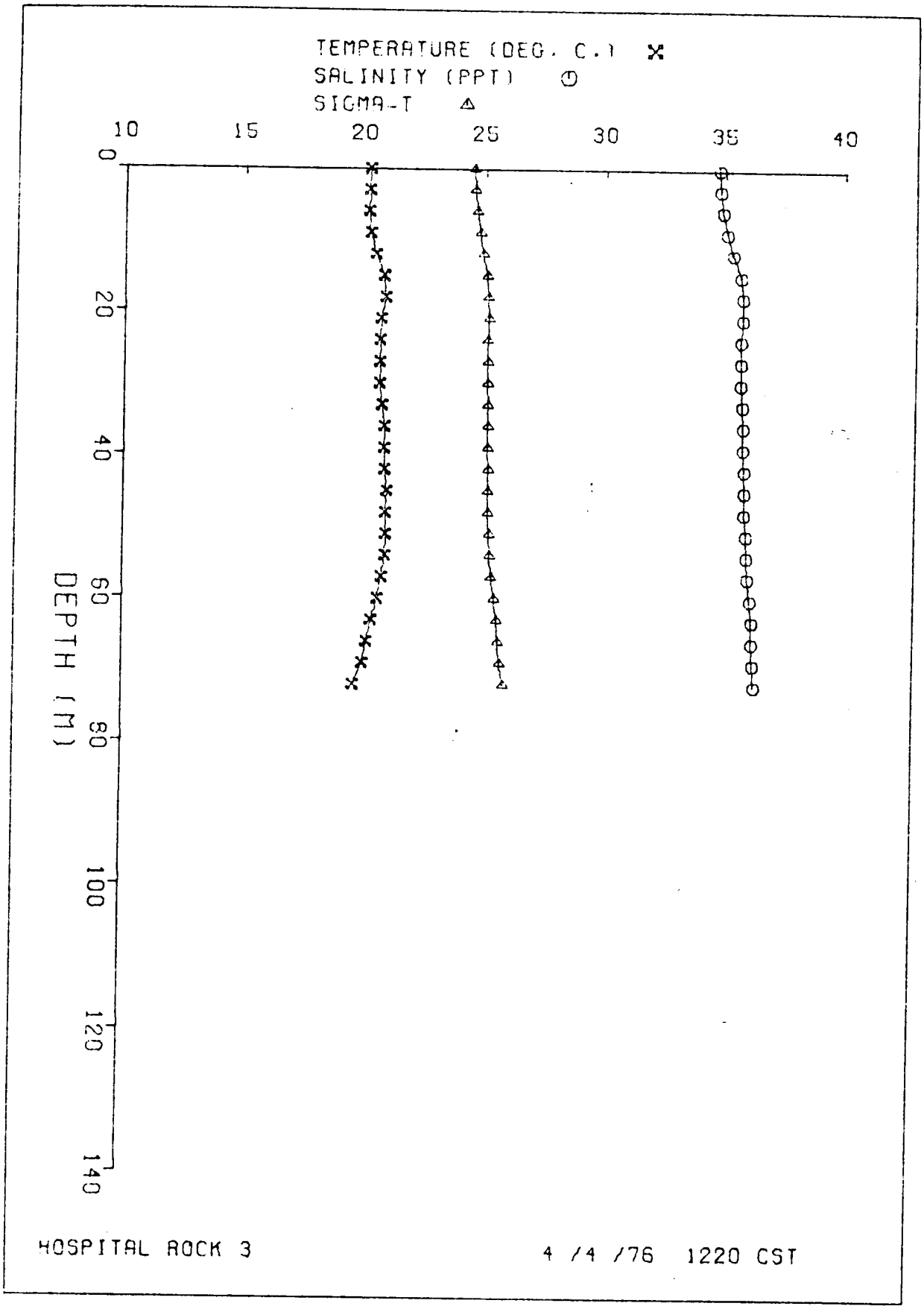
HYDROGRAPHIC CAST DATA HOSPITAL ROCK 1
4/ 4/76 1120 CST SAMPLE CODE KJL

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	20,18	34,77	24,56	338,5	0,00	0,00	1522,3	0,0
3,0	20,20	34,77	24,55	339,4	,10	,00	1522,5	39,5
6,0	20,21	34,88	24,64	331,8	,20	,01	1522,7	77,5
9,0	20,45	35,24	24,85	311,9	,30	,01	1523,8	88,1
12,0	20,68	35,54	25,01	296,2	,39	,02	1524,8	64,1
15,0	20,98	35,69	25,05	293,2	,48	,04	1525,8	38,2
18,0	21,23	35,83	25,08	289,7	,57	,05	1526,7	34,8
21,0	21,43	35,93	25,10	287,8	,65	,07	1527,4	22,7
24,0	21,58	35,99	25,11	287,6	,74	,09	1527,9	0,0
27,0	21,63	36,00	25,10	288,3	,83	,11	1528,1	0,0
30,0	21,63	35,99	25,09	289,1	,91	,14	1528,1	0,0
33,0	21,62	35,98	25,09	289,7	1,00	,16	1528,1	3,9
36,0	21,60	35,98	25,10	289,3	1,09	,19	1528,1	13,2
39,0	21,48	35,94	25,10	289,1	1,17	,23	1527,8	4,1
42,0	21,35	35,89	25,10	289,4	1,26	,26	1527,5	29,8
45,0	21,13	35,87	25,14	285,2	1,35	,30	1526,9	26,5
48,0	21,06	35,83	25,13	286,4	1,43	,34	1526,7	0,0
51,0	21,05	35,84	25,14	285,5	1,52	,39	1526,8	32,8
54,0	20,98	35,87	25,18	281,6	1,61	,43	1526,7	39,6
57,0	20,91	35,89	25,22	278,5	1,69	,48	1526,6	34,5
60,0	20,88	35,91	25,24	276,4	1,77	,53	1526,5	55,9
63,0	20,63	35,99	25,37	264,2	1,85	,58	1526,0	88,3
66,0	20,18	36,16	25,62	240,5	1,93	,63	1525,1	105,5
69,0	19,63	36,35	25,91	213,1	2,00	,68	1523,8	109,3

HYDROGRAPHIC CAST DATA HOSPITAL ROCK 3
4/ 4/76 1220 CST SAMPLE CODE KKM

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	20,18	34,70	24,51	343,3	0,00	0,00	1522,3	38,4
3,0	20,16	34,74	24,55	340,3	,10	,00	1522,3	49,7
6,0	20,13	34,84	24,63	332,4	,20	,01	1522,4	66,6
9,0	20,21	35,04	24,76	320,0	,30	,01	1522,9	73,6
12,0	20,43	35,29	24,89	307,6	,40	,02	1523,8	79,1
15,0	20,78	35,64	25,06	291,3	,49	,04	1525,2	67,6
18,0	20,85	35,73	25,11	286,8	,57	,05	1525,6	44,4
21,0	20,68	35,73	25,16	282,5	,66	,07	1525,2	4,2
24,0	20,65	35,66	25,11	286,9	,74	,09	1525,1	0,0
27,0	20,65	35,67	25,12	286,3	,83	,11	1525,1	12,5
30,0	20,65	35,67	25,12	286,4	,92	,14	1525,2	23,2
33,0	20,75	35,74	25,15	284,0	1,00	,16	1525,6	24,7
36,0	20,85	35,78	25,15	283,8	1,09	,19	1525,9	8,3
39,0	20,85	35,78	25,15	283,9	1,17	,23	1526,0	27,8
42,0	20,88	35,84	25,19	280,5	1,26	,26	1526,2	19,2
45,0	20,98	35,85	25,17	282,4	1,34	,30	1526,5	0,0
48,0	20,93	35,85	25,18	281,3	1,43	,34	1526,4	40,4
51,0	20,94	35,94	25,25	275,1	1,51	,38	1526,6	43,4
54,0	20,93	35,97	25,27	272,8	1,59	,43	1526,7	44,6
57,0	20,78	36,01	25,35	266,1	1,67	,47	1526,4	65,9
60,0	20,63	36,14	25,49	253,0	1,75	,52	1526,2	74,3
63,0	20,38	36,22	25,61	240,9	1,83	,57	1525,6	61,6
66,0	20,20	36,23	25,67	235,7	1,90	,61	1525,2	53,5
69,0	20,03	36,28	25,75	227,9	1,97	,66	1524,8	69,9
72,0	19,65	36,35	25,91	213,4	2,04	,71	1523,9	79,5


TEMPERATURE (DEG. C.) ✕
SALINITY (PPT) ⓣ
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
HOSPITAL ROCK 1
4 /4 /76 1120 CST


TEMPERATURE (DEG. C.) ✕
SALINITY (PPT) ⓣ
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
HOSPITAL ROCK 3
4 /4 /76 1220 CST

HYDROGRAPHIC CAST DATA SOUTHERN BANK 2

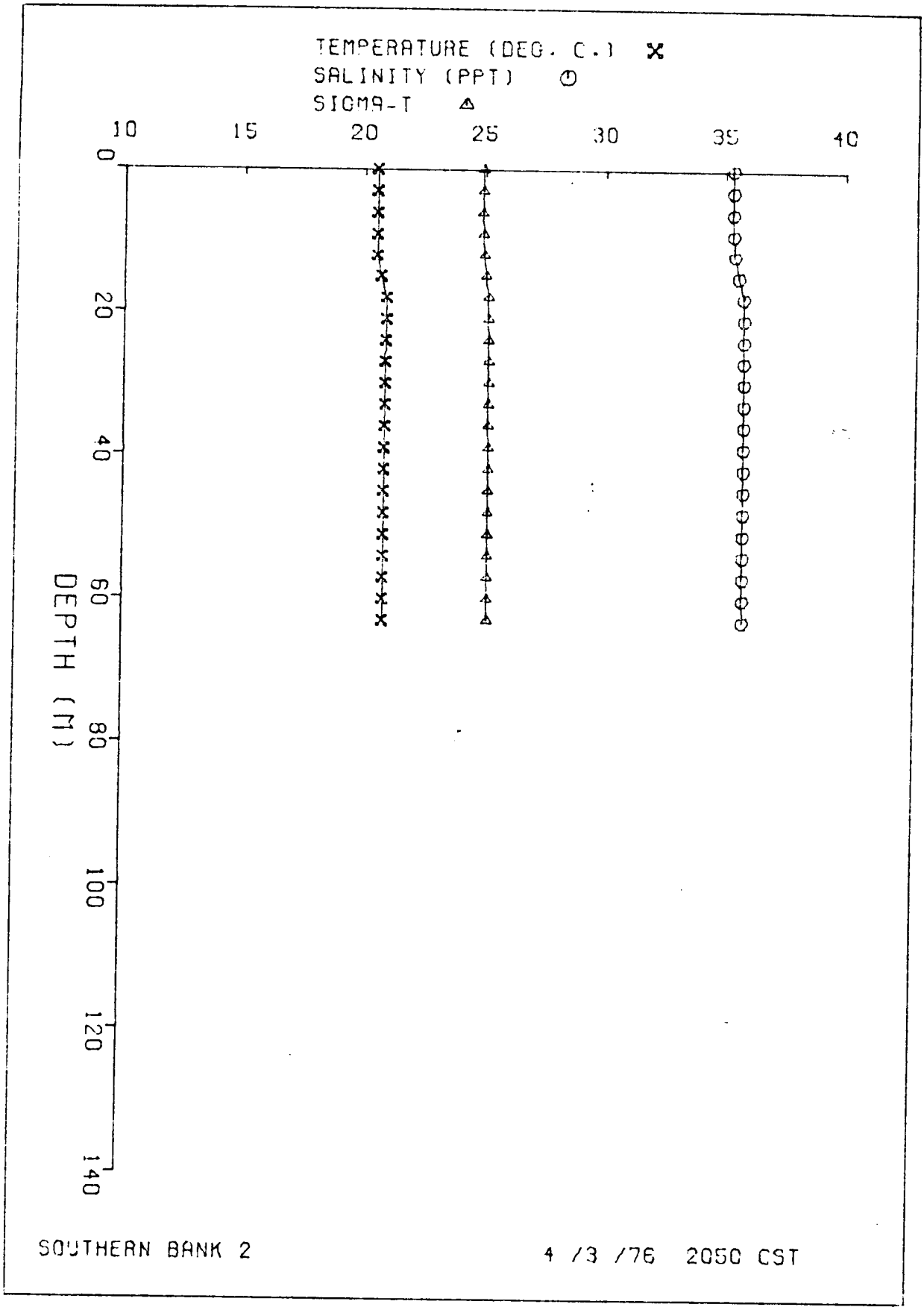
4/ 3/76 2050 CST SAMPLE CODE KLQ

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	20,50	35,30	24,88	308,1	0,00	0,00	1523,8	0,0
3,0	20,50	35,30	24,88	308,5	,09	,00	1523,9	0,0
6,0	20,50	35,30	24,88	308,6	,19	,01	1523,9	21,7
9,0	20,50	35,33	24,90	306,5	,28	,01	1524,0	35,4
12,0	20,50	35,38	24,94	303,0	,37	,02	1524,1	49,5
15,0	20,68	35,55	25,02	295,4	,46	,04	1524,9	61,1
18,0	20,90	35,76	25,12	286,0	,55	,05	1525,7	47,1
21,0	20,90	35,77	25,13	285,4	,63	,07	1525,8	20,6
24,0	20,88	35,78	25,14	284,3	,72	,09	1525,8	21,9
27,0	20,87	35,79	25,15	283,4	,80	,11	1525,8	19,2
30,0	20,87	35,80	25,16	282,8	,89	,13	1525,9	12,5
33,0	20,87	35,80	25,16	282,9	,97	,16	1525,9	0,0
36,0	20,87	35,80	25,16	283,0	1,06	,19	1526,0	10,6
39,0	20,85	35,80	25,17	282,6	1,14	,22	1526,0	10,6
42,0	20,85	35,80	25,17	282,7	1,23	,26	1526,0	0,0
45,0	20,85	35,80	25,17	282,8	1,31	,30	1526,1	0,0
48,0	20,85	35,80	25,17	282,9	1,40	,34	1526,1	0,0
51,0	20,85	35,80	25,17	283,1	1,48	,38	1526,2	0,0
54,0	20,85	35,80	25,17	283,2	1,57	,43	1526,2	0,0
57,0	20,85	35,80	25,17	283,3	1,66	,48	1526,3	12,5
60,0	20,85	35,81	25,17	282,7	1,74	,53	1526,4	17,7
63,0	20,85	35,82	25,18	282,1	1,83	,58	1526,4	17,7

HYDROGRAPHIC CAST DATA SOUTHERN BANK 3

4/ 4/76 845 CST SAMPLE CODE KKO

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	20,18	34,89	24,65	329,6	0,00	0,00	1522,5	0,0
3,0	20,19	34,88	24,64	331,0	,10	,00	1522,6	50,7
6,0	20,71	35,24	24,78	318,2	,20	,01	1524,4	67,2
9,0	20,96	35,44	24,86	310,3	,29	,01	1525,4	50,7
12,0	21,09	35,54	24,90	306,6	,38	,02	1525,9	45,5
15,0	21,01	35,59	24,96	301,0	,48	,04	1525,8	44,3
18,0	20,88	35,59	25,00	297,7	,57	,05	1525,5	51,3
21,0	20,96	35,74	25,09	289,1	,65	,07	1525,9	51,8
24,0	20,96	35,79	25,13	285,6	,74	,09	1526,0	37,5
27,0	20,96	35,83	25,16	282,8	,83	,11	1526,1	28,0
30,0	20,96	35,84	25,17	282,2	,91	,14	1526,2	12,5
33,0	20,96	35,84	25,17	282,3	,99	,16	1526,2	0,0
36,0	20,96	35,84	25,17	282,4	1,08	,19	1526,3	0,0
39,0	20,96	35,84	25,17	282,5	1,16	,23	1526,3	12,5
42,0	20,96	35,85	25,17	281,9	1,25	,26	1526,4	17,7
45,0	20,96	35,86	25,18	281,3	1,33	,30	1526,5	17,7
48,0	20,96	35,87	25,19	280,7	1,42	,34	1526,5	12,5
51,0	20,96	35,87	25,19	280,8	1,50	,38	1526,6	0,0
54,0	20,96	35,87	25,19	280,9	1,59	,43	1526,6	0,0
57,0	20,96	35,87	25,19	281,0	1,67	,48	1526,7	17,7
60,0	20,96	35,89	25,21	279,7	1,76	,53	1526,7	33,1
63,0	20,96	35,94	25,24	276,2	1,84	,58	1526,8	49,7
66,0	20,91	36,03	25,33	268,5	1,92	,63	1526,9	73,0
69,0	20,51	36,12	25,50	251,8	2,00	,69	1526,0	91,8
72,0	20,01	36,25	25,73	229,7	2,07	,74	1524,8	97,9


TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ⊙
SIGMA-T △
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15
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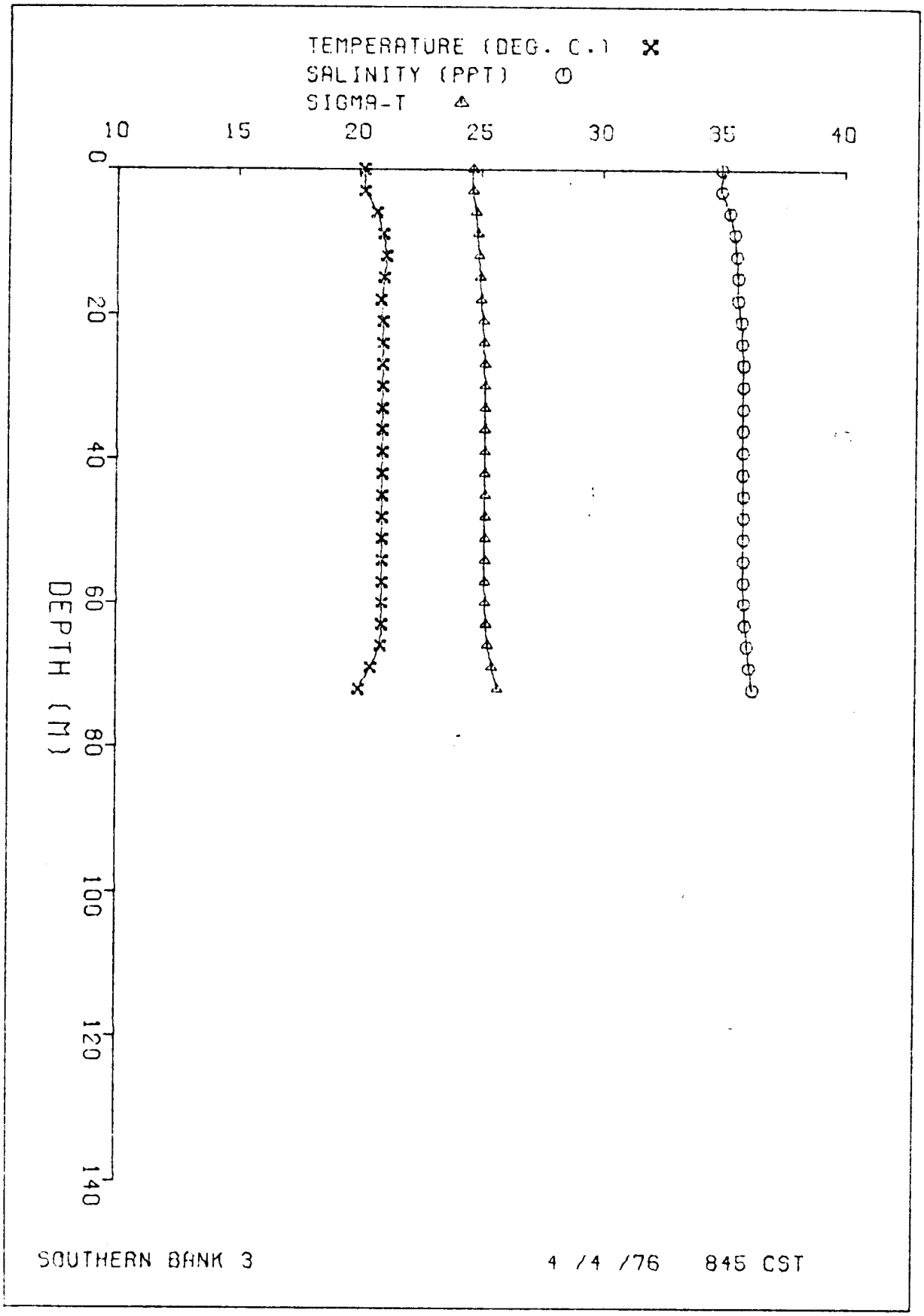
120
140
DEPTH (M)
SOUTHERN BANK 2
4 /3 /76 2050 CST


TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ⊙
SIGMA-T △
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40
60
80
100
120
140
DEPTH (M)
SOUTHERN BANK 3
4 /4 /76 845 CST

HYDROGRAPHIC CAST DATA STATION 1 / TRANSECT II
4/ 2/76 1230 CST SAMPLE CODE KUD

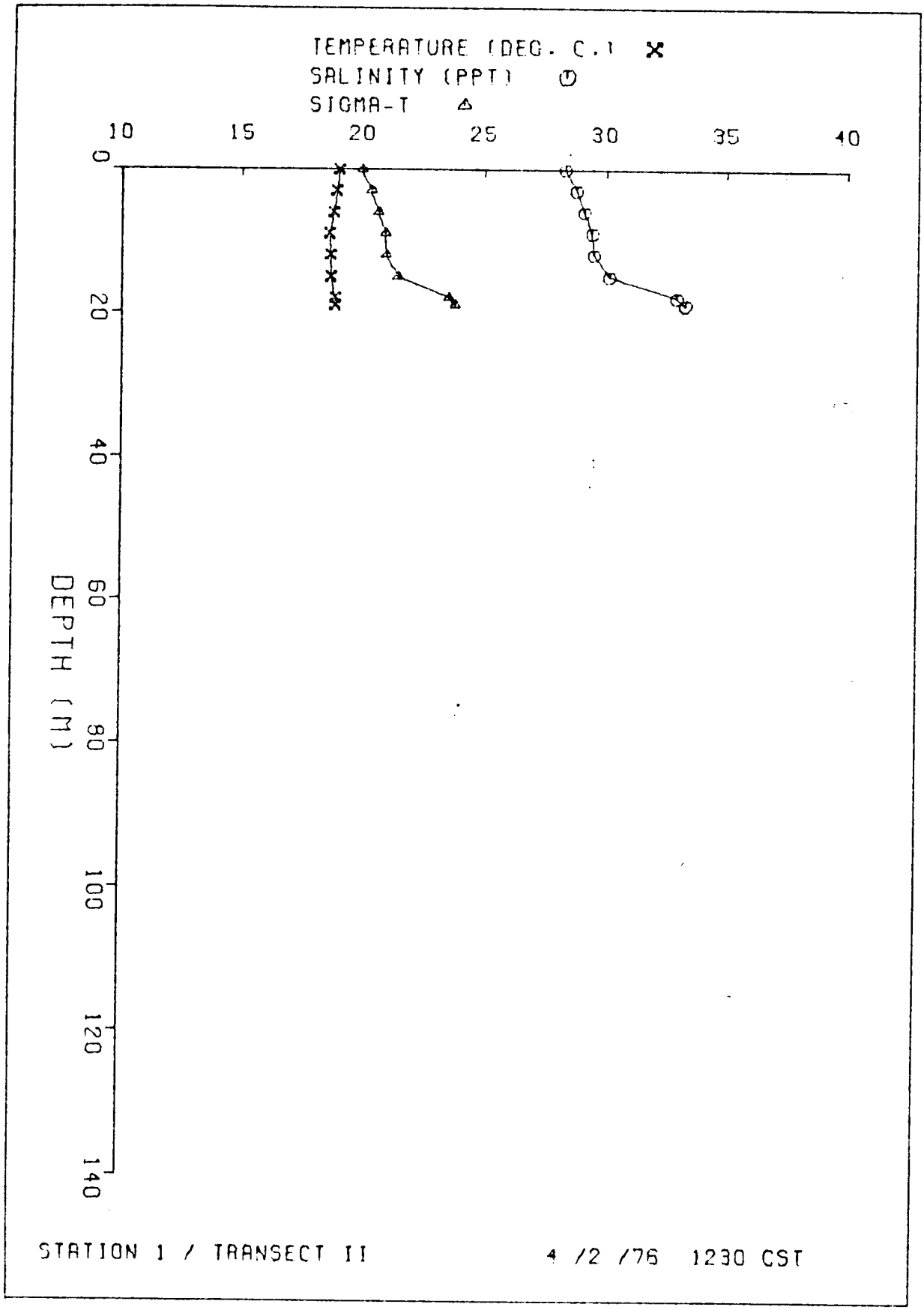
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	19.00	28.30	19.94	780.5	0.00	0.00	1511.5	126.9
3.0	18.90	28.78	20.33	743.5	.23	.00	1511.8	117.2
6.0	18.77	29.10	20.61	717.2	.45	.01	1511.8	107.6
9.0	18.60	29.42	20.89	689.9	.66	.03	1511.8	83.0
12.0	18.65	29.50	20.94	685.4	.86	.05	1512.1	105.5
15.0	18.67	30.15	21.43	638.5	1.06	.08	1512.9	231.0
18.0	18.83	32.95	23.52	438.6	1.23	.11	1516.7	243.6
19.0	18.85	33.30	23.78	413.7	1.27	.11	1517.2	180.0

HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT II
4/ 2/76 2127 CST SAMPLE CODE KFD

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	19.69	34.37	24.39	355.2	0.00	0.00	1520.5	0.0
3.0	19.71	34.37	24.38	356.1	.11	.00	1520.6	0.0
6.0	19.71	34.37	24.38	356.2	.21	.01	1520.7	54.2
9.0	19.75	34.57	24.52	342.7	.32	.01	1521.1	98.2
12.0	19.79	35.01	24.85	311.8	.42	.03	1521.8	93.0
15.0	19.83	35.15	24.94	303.0	.51	.04	1522.1	49.8
18.0	19.86	35.20	24.97	300.6	.60	.05	1522.3	33.8
21.0	19.96	35.27	25.00	297.9	.69	.07	1522.7	36.2
24.0	20.02	35.33	25.03	294.7	.78	.09	1523.0	41.6
27.0	20.13	35.44	25.08	290.2	.87	.11	1523.4	50.3
30.0	20.36	35.61	25.15	283.3	.95	.14	1524.3	38.4
33.0	20.46	35.64	25.15	283.6	1.04	.17	1524.7	0.0
36.0	20.47	35.64	25.15	284.1	1.12	.20	1524.8	6.5
39.0	20.45	35.64	25.15	283.6	1.21	.23	1524.7	11.2
42.0	20.45	35.64	25.15	283.7	1.30	.27	1524.8	0.0
45.0	20.45	35.64	25.15	283.8	1.38	.30	1524.8	0.0

HYDROGRAPHIC CAST DATA STATION 4 / TRANSECT II
4/ 2/76 1710 CST SAMPLE CODE KFB

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	19.23	33.23	23.64	426.4	0.00	0.00	1517.9	17.7
3.0	19.20	33.23	23.65	426.1	.13	.00	1517.9	34.7
6.0	19.00	33.23	23.70	421.4	.26	.01	1517.4	118.7
9.0	19.18	34.12	24.33	361.2	.37	.02	1519.0	135.3
12.0	19.40	34.53	24.58	336.9	.48	.03	1520.1	97.2
15.0	19.53	34.84	24.79	317.7	.58	.04	1520.9	82.6
18.0	19.68	35.06	24.92	305.6	.67	.06	1521.6	63.2
21.0	19.78	35.18	24.98	299.4	.76	.08	1522.1	53.7
24.0	19.93	35.33	25.06	292.4	.85	.10	1522.7	62.4
27.0	20.16	35.56	25.17	281.7	.94	.12	1523.7	48.0
30.0	20.17	35.56	25.17	282.0	1.02	.14	1523.7	0.0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SALINITY (PPT)
SIGMA-T
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15
20
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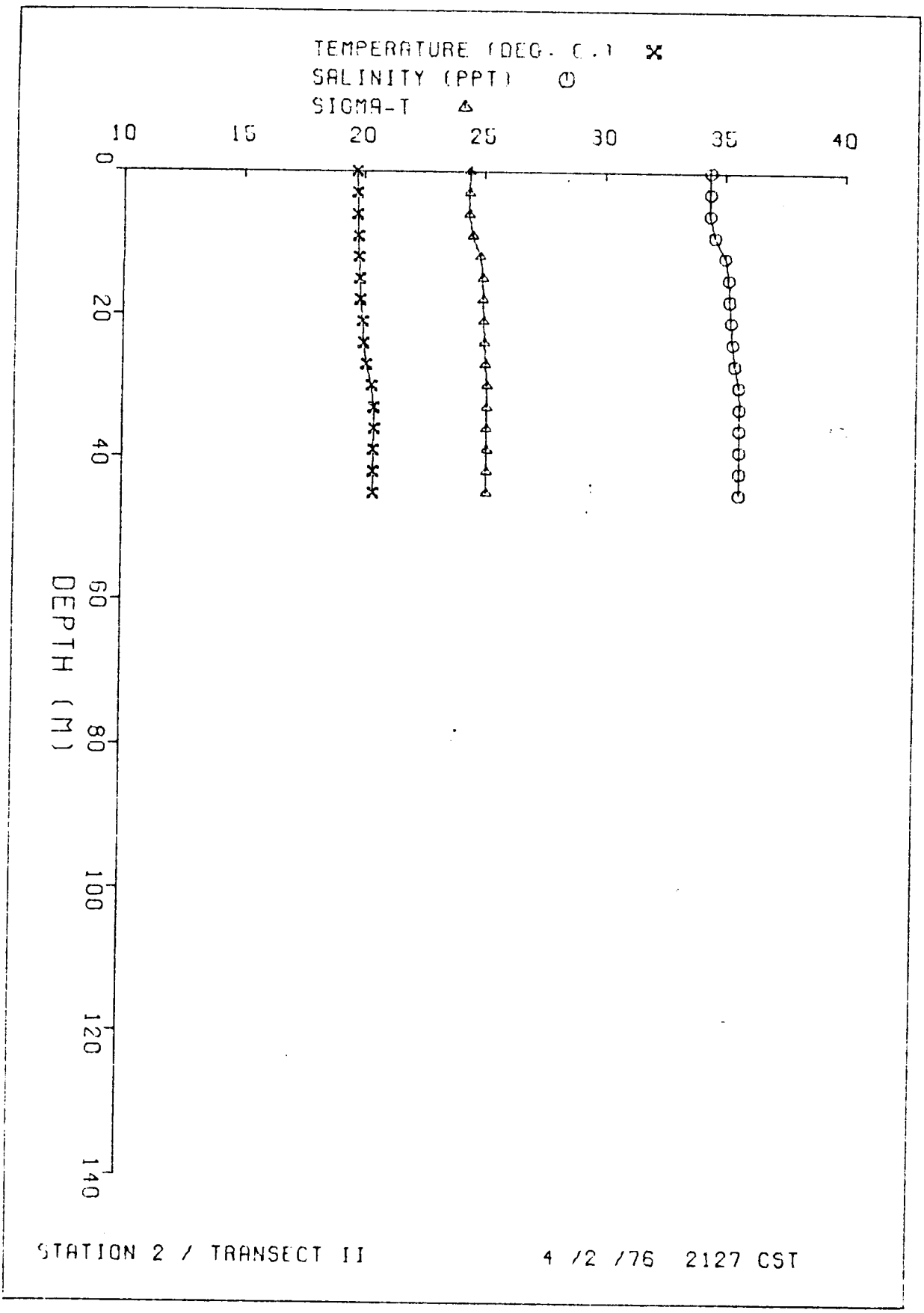
60
80
100
120
140
DEPTH (M)
STATION 1 / TRANSECT II
4 /2 /76 1230 CST


TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ⊙
SIGMA-T △
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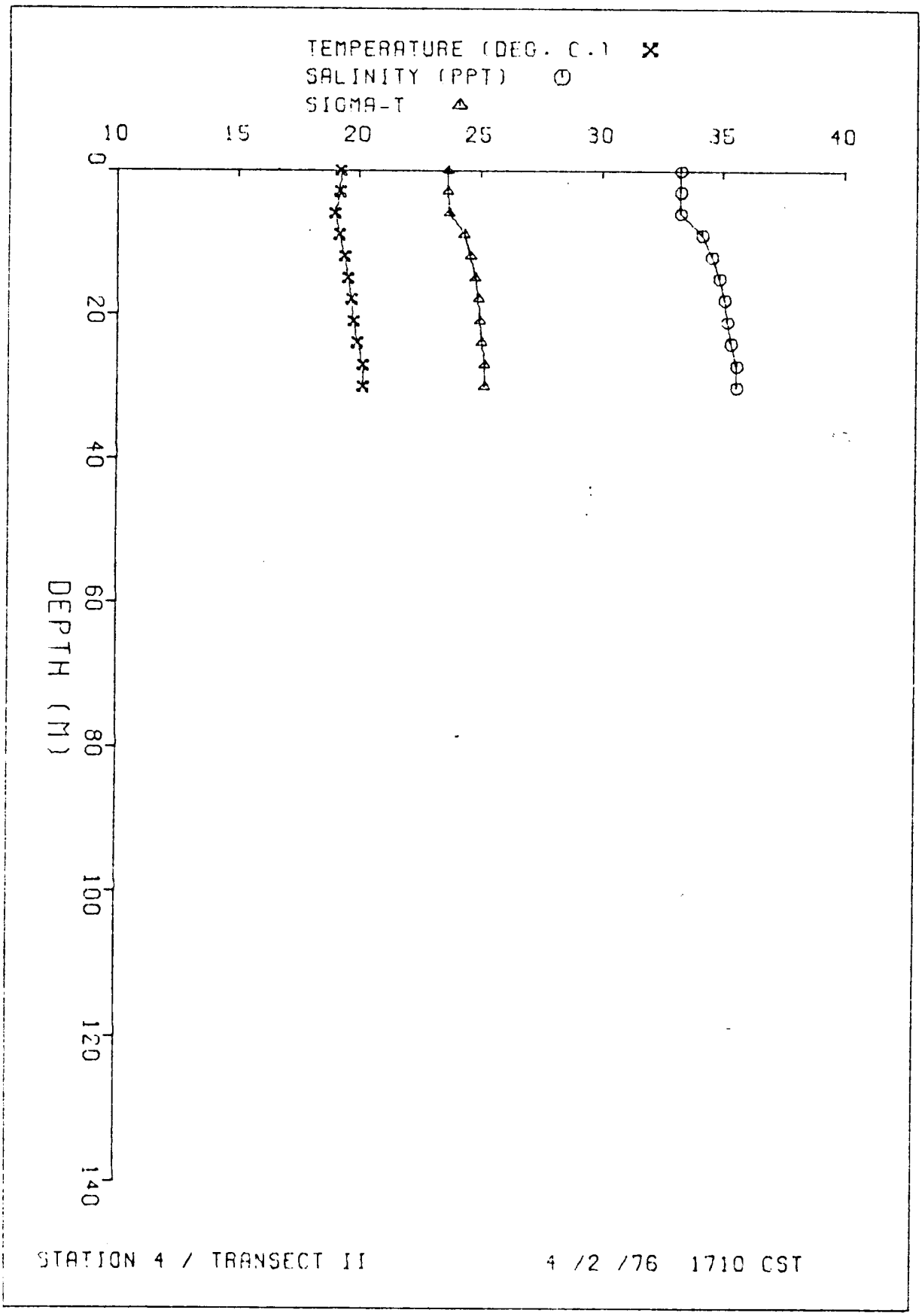
DEPTH (M)
STATION 2 / TRANSECT II
4 /2 /76 2127 CST


TEMPERATURE (DEG. C.) X
SALINITY (PPT) ①
SIGMA-T △
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35
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0
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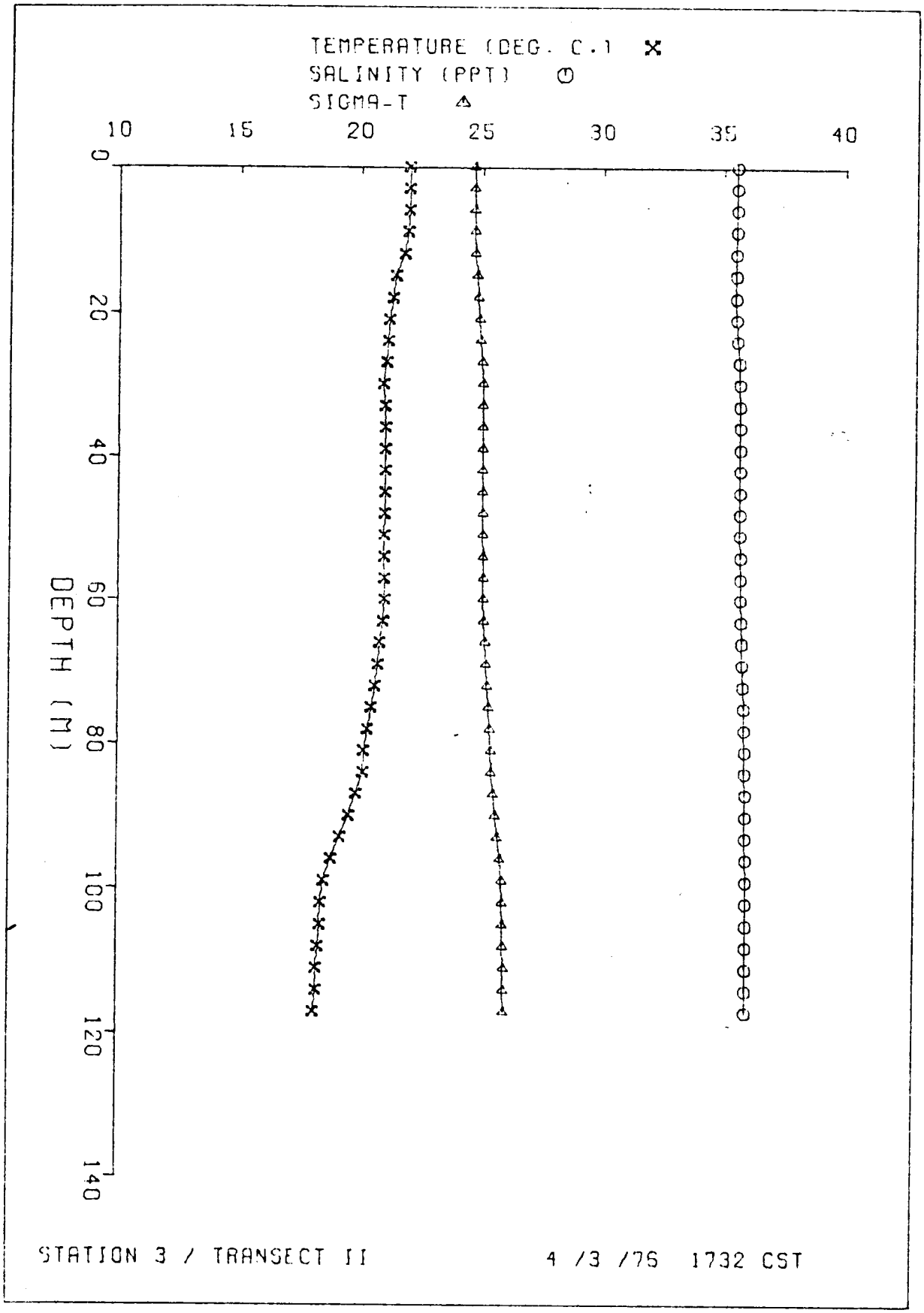
40
60
80
100
120
140
DEPTH (M)
STATION 4 / TRANSECT II
4 /2 /76 1710 CST

HYDROGRAPHIC CAST DATA STATION 3 / TRANSECT II

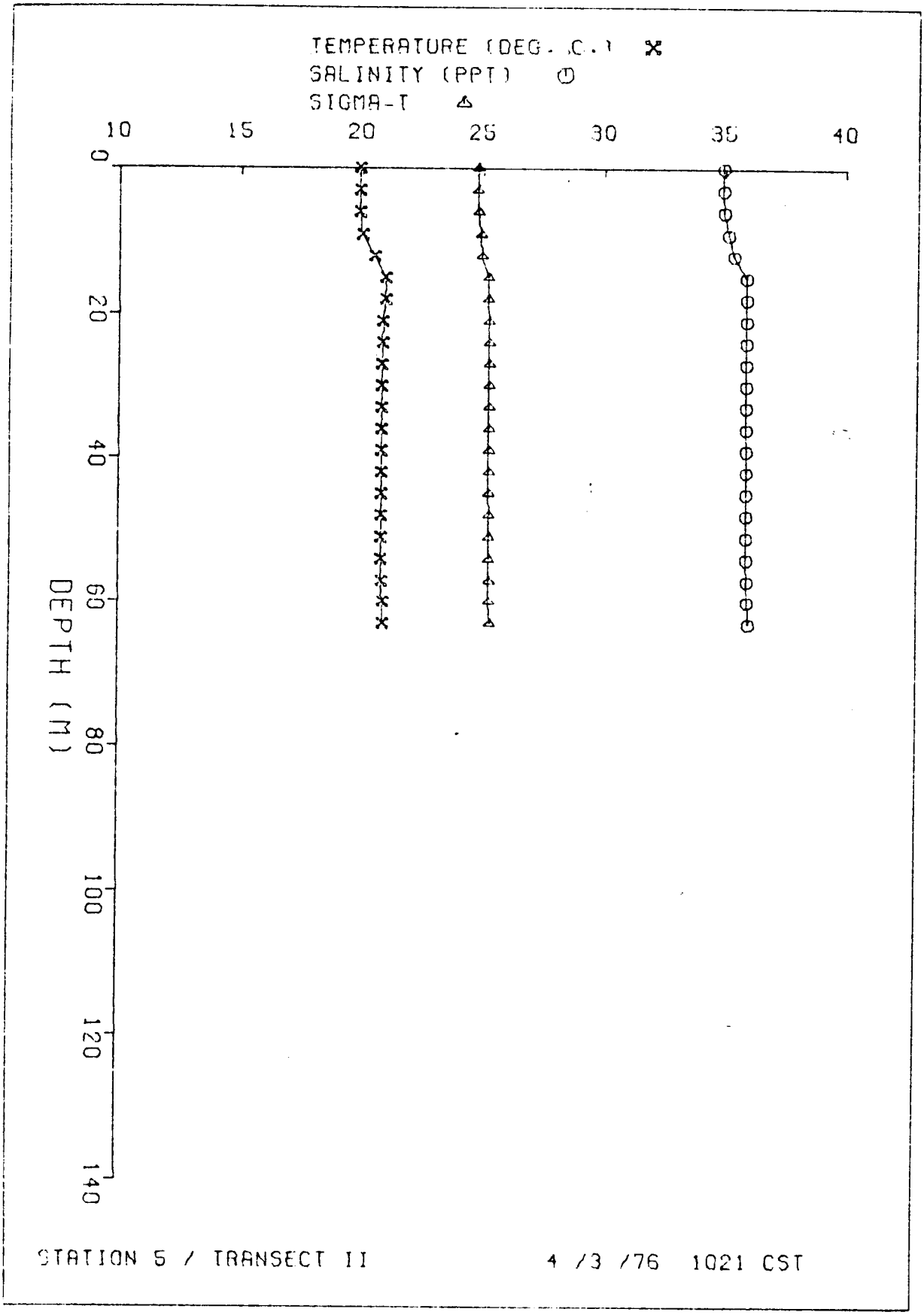
4/ 3/76 1732 CST SAMPLE CODE KHC

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	21.97	35.54	24.66	329.3	0.00	0.00	1528.0	0.0
3.0	21.97	35.54	24.66	329.7	.10	.00	1528.0	0.0
6.0	21.97	35.54	24.66	329.8	.20	.01	1528.1	17.1
9.0	21.92	35.54	24.67	328.6	.30	.01	1528.0	28.0
12.0	21.77	35.51	24.69	326.4	.40	.02	1527.6	48.3
15.0	21.41	35.50	24.78	318.0	.49	.04	1526.7	51.1
18.0	21.31	35.51	24.82	314.6	.59	.05	1526.5	46.1
21.0	21.16	35.54	24.89	308.4	.68	.07	1526.2	46.1
24.0	21.10	35.58	24.93	305.0	.77	.09	1526.2	51.3
27.0	21.05	35.68	25.01	296.5	.86	.12	1526.2	51.9
30.0	20.92	35.68	25.06	292.7	.95	.14	1525.9	26.0
33.0	21.00	35.70	25.05	293.6	1.04	.17	1526.2	0.0
36.0	21.02	35.71	25.05	293.3	1.13	.20	1526.3	13.4
39.0	21.02	35.72	25.06	293.0	1.22	.24	1526.4	9.9
42.0	21.02	35.72	25.06	293.1	1.31	.27	1526.4	0.0
45.0	21.02	35.72	25.06	293.2	1.39	.31	1526.5	10.7
48.0	21.00	35.72	25.06	292.8	1.48	.35	1526.5	15.1
51.0	20.98	35.72	25.07	292.4	1.57	.40	1526.4	22.5
54.0	20.98	35.74	25.09	290.7	1.66	.45	1526.5	21.7
57.0	21.00	35.76	25.09	290.4	1.74	.50	1526.6	12.8
60.0	21.02	35.77	25.09	290.2	1.83	.55	1526.8	29.6
63.0	20.95	35.79	25.13	286.6	1.92	.60	1526.6	45.0
66.0	20.82	35.83	25.19	281.0	2.00	.66	1526.4	43.9
69.0	20.75	35.84	25.23	278.0	2.09	.72	1526.3	43.0
72.0	20.65	35.88	25.28	272.7	2.17	.78	1526.1	49.9
75.0	20.49	35.91	25.35	266.7	2.25	.84	1525.8	49.8
78.0	20.34	35.93	25.40	261.5	2.33	.90	1525.4	47.7
81.0	20.19	35.95	25.46	256.4	2.41	.96	1525.1	36.7
84.0	20.17	35.96	25.47	255.5	2.49	1.03	1525.1	46.5
87.0	19.88	35.98	25.56	246.6	2.56	1.10	1524.4	60.8
90.0	19.58	35.99	25.65	238.6	2.63	1.16	1523.6	61.3
93.0	19.22	35.99	25.74	229.4	2.71	1.23	1522.7	65.4
96.0	18.86	36.02	25.86	219.0	2.77	1.29	1521.7	63.0
99.0	18.56	36.03	25.94	211.2	2.84	1.36	1520.9	49.3
102.0	18.44	36.03	25.97	207.9	2.90	1.42	1520.6	31.5
105.0	18.40	36.04	25.99	206.8	2.96	1.49	1520.6	25.0
108.0	18.33	36.04	26.00	205.2	3.03	1.56	1520.5	28.1
111.0	18.25	36.04	26.02	203.4	3.09	1.63	1520.3	20.5
114.0	18.25	36.04	26.02	203.5	3.15	1.70	1520.3	22.9
117.0	18.15	36.04	26.05	201.2	3.21	1.77	1520.1	32.4


TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ○
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 3 / TRANSECT II
4 /3 /75 1732 CST

HYDROGRAPHIC CAST DATA STATION 5 / TRANSECT II
4/ 3/76 1021 CST SAMPLE CODE KEV

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	19.88	34.91	24.75	320.6	0.00	0.00	1521.7	0.0
3.0	19.88	34.91	24.75	321.0	.10	.00	1521.7	16.6
6.0	19.88	34.93	24.76	319.8	.19	.01	1521.8	53.3
9.0	19.99	35.13	24.89	308.1	.29	.01	1522.4	56.2
12.0	20.51	35.35	24.92	305.4	.38	.02	1524.1	80.6
15.0	20.96	35.89	25.20	278.3	.47	.04	1526.0	77.6
18.0	20.96	35.90	25.21	277.8	.55	.05	1526.1	26.8
21.0	20.86	35.90	25.24	275.2	.63	.07	1525.8	26.1
24.0	20.84	35.90	25.24	274.9	.72	.08	1525.8	15.6
27.0	20.82	35.90	25.25	274.3	.80	.11	1525.8	12.1
30.0	20.82	35.90	25.25	274.4	.88	.13	1525.9	0.0
33.0	20.82	35.90	25.25	274.5	.96	.16	1525.9	0.0
36.0	20.82	35.90	25.25	274.7	1.05	.19	1526.0	11.7
39.0	20.82	35.91	25.25	274.1	1.13	.22	1526.0	11.7
42.0	20.82	35.91	25.25	274.2	1.21	.25	1526.1	0.0
45.0	20.82	35.91	25.25	274.4	1.29	.29	1526.1	11.7
48.0	20.82	35.91	25.26	273.8	1.38	.33	1526.2	11.7
51.0	20.82	35.91	25.26	273.9	1.46	.37	1526.2	9.4
54.0	20.82	35.92	25.27	273.6	1.54	.41	1526.3	20.1
57.0	20.84	35.95	25.28	272.3	1.62	.46	1526.4	19.7
60.0	20.90	35.98	25.28	272.1	1.71	.51	1526.7	30.7
63.0	20.92	36.04	25.33	268.2	1.79	.56	1526.9	41.6


TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ⊙
SIGMA-T △
10
15
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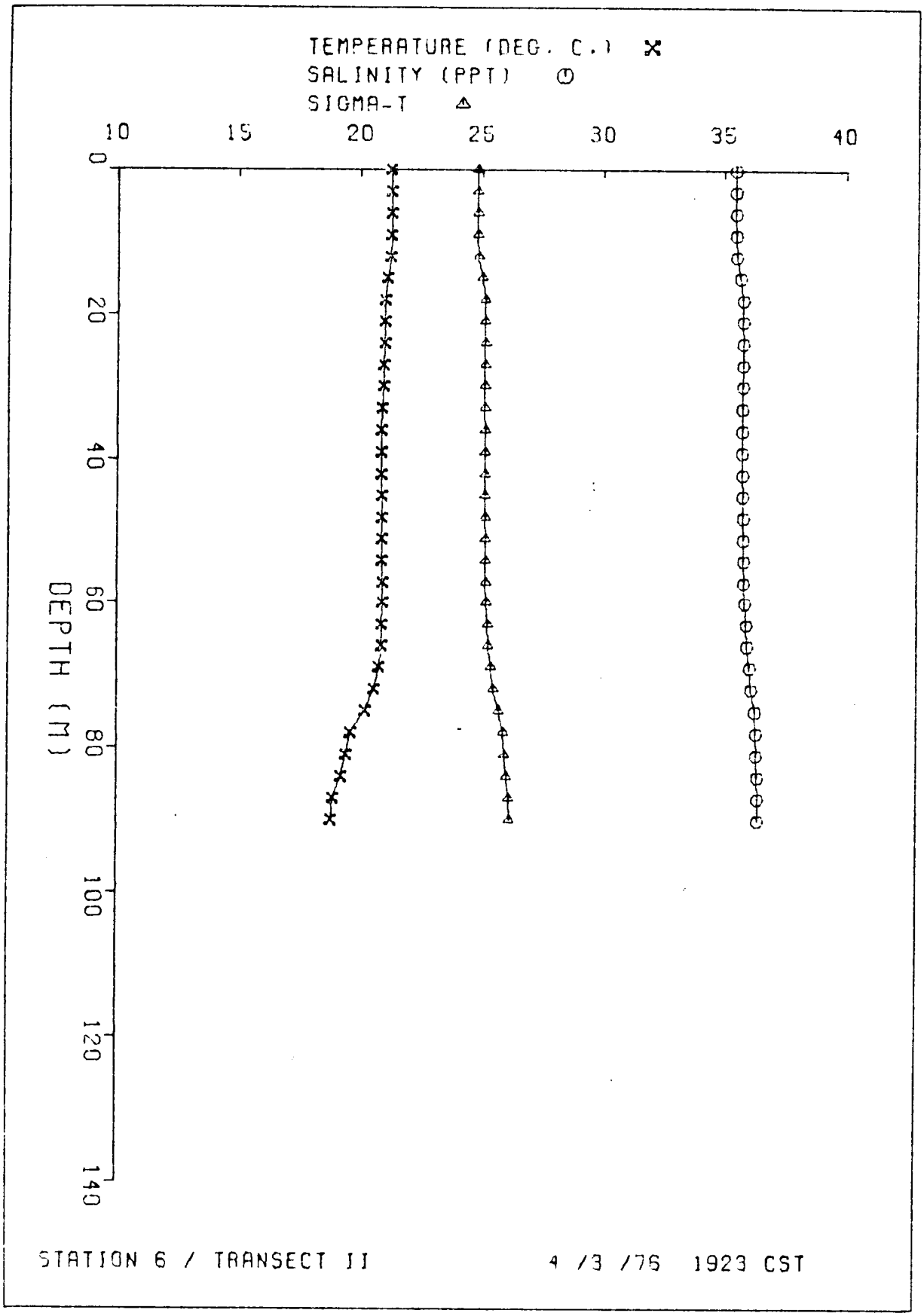
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 5 / TRANSECT II
4 /3 /76 1021 CST

HYDROGRAPHIC CAST DATA STATION 6 / TRANSECT II
4/ 3/76 1923 CST SAMPLE CODE KGZ

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	21.24	35.44	24.78	317.1	0.00	0.00	1526.0	0.0
3.0	21.26	35.44	24.78	318.1	.10	.00	1526.1	10.9
6.0	21.25	35.45	24.79	317.1	.19	.01	1526.1	21.7
9.0	21.24	35.46	24.80	316.1	.29	.01	1526.1	26.6
12.0	21.22	35.49	24.82	314.0	.38	.02	1526.2	62.3
15.0	21.09	35.65	24.99	298.4	.47	.04	1526.1	77.1
18.0	20.98	35.78	25.11	286.8	.56	.05	1526.0	50.3
21.0	20.98	35.78	25.11	286.9	.65	.07	1526.0	13.3
24.0	20.98	35.79	25.12	286.2	.73	.09	1526.1	18.7
27.0	20.95	35.79	25.13	285.5	.82	.11	1526.1	0.0
30.0	20.95	35.78	25.12	286.5	.91	.14	1526.1	0.0
33.0	20.90	35.77	25.13	286.1	.99	.16	1526.0	16.9
36.0	20.87	35.77	25.14	285.4	1.08	.19	1526.0	13.2
39.0	20.87	35.77	25.14	285.5	1.16	.23	1526.0	13.3
42.0	20.87	35.78	25.14	284.8	1.25	.26	1526.1	13.5
45.0	20.90	35.79	25.14	284.9	1.33	.30	1526.2	13.5
48.0	20.90	35.80	25.15	284.2	1.42	.34	1526.3	23.1
51.0	20.90	35.82	25.17	282.6	1.51	.38	1526.4	23.1
54.0	20.90	35.84	25.18	281.9	1.59	.43	1526.4	15.5
57.0	20.92	35.85	25.18	281.8	1.67	.48	1526.5	30.8
60.0	20.92	35.90	25.22	277.8	1.76	.53	1526.6	43.5
63.0	20.90	35.96	25.27	273.3	1.84	.58	1526.7	36.8
66.0	20.90	35.98	25.29	271.8	1.92	.64	1526.8	53.7
69.0	20.80	36.11	25.41	260.2	2.00	.69	1526.7	67.5
72.0	20.59	36.16	25.51	250.9	2.08	.75	1526.3	81.8
75.0	20.23	36.33	25.74	229.5	2.15	.80	1525.5	92.9
78.0	19.63	36.38	25.93	211.3	2.22	.85	1524.0	71.3
81.0	19.46	36.39	25.99	206.2	2.28	.90	1523.6	54.2
84.0	19.25	36.44	26.07	197.9	2.34	.96	1523.1	61.2
87.0	18.92	36.45	26.17	189.1	2.40	1.01	1522.3	48.6
90.0	18.84	36.45	26.19	187.2	2.46	1.06	1522.1	29.5


TEMPERATURE (DEG. C.) ✕
SALINITY (PPT) ⓘ
SIGMA-T △
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100
120
140
DEPTH (M)
STATION 6 / TRANSECT II
4 /3 /76 1923 CST

HYDROGRAPHIC CAST DATA STATION 1 / TRANSECT I
6/ 7/76 1910 CST SAMPLE CODE KVA

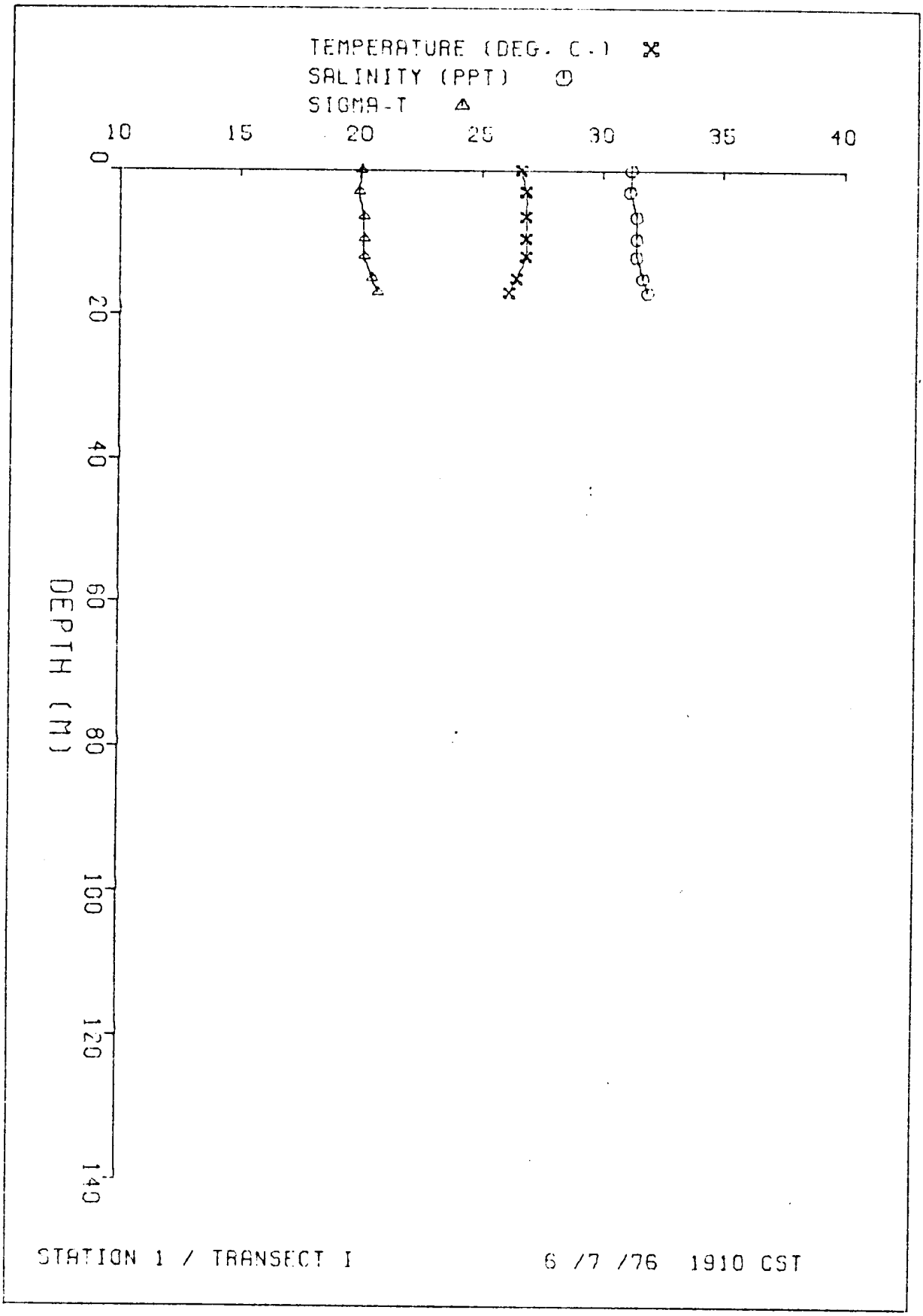
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	26,60	31,17	19,99	776,0	0,00	0,00	1534,3	0,0
3,0	26,80	31,11	19,88	786,9	,23	,00	1534,8	38,1
6,5	26,80	31,38	20,09	766,9	,50	,02	1535,1	60,8
9,5	26,80	31,38	20,09	767,1	,73	,04	1535,2	0,0
12,0	26,80	31,38	20,09	767,2	,93	,06	1535,2	81,9
15,0	26,40	31,65	20,41	736,1	1,15	,09	1534,6	119,6
17,0	26,10	31,85	20,66	712,7	1,30	,11	1534,2	123,2

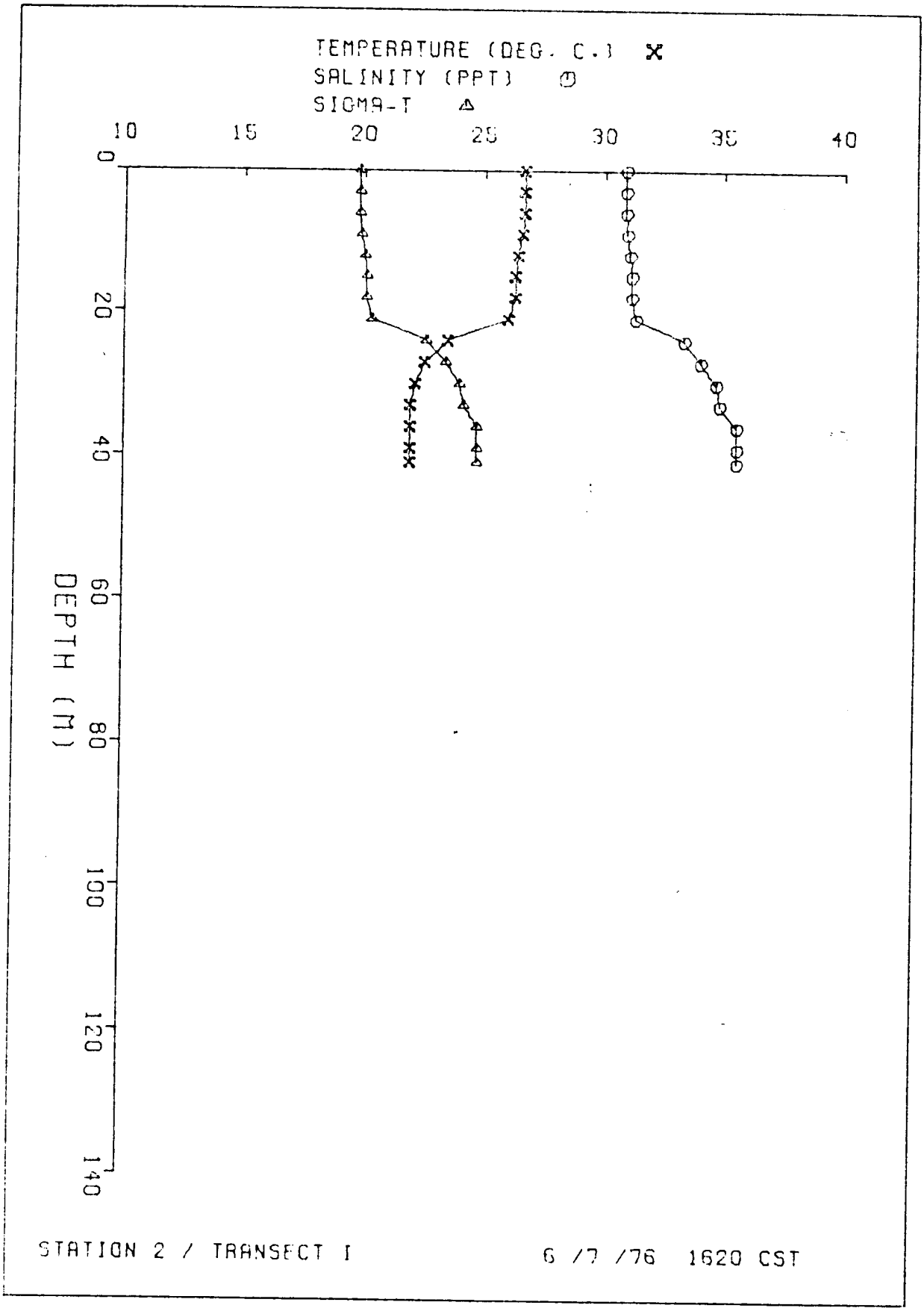
HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT I
6/ 7/76 1520 CST SAMPLE CODE KAZ

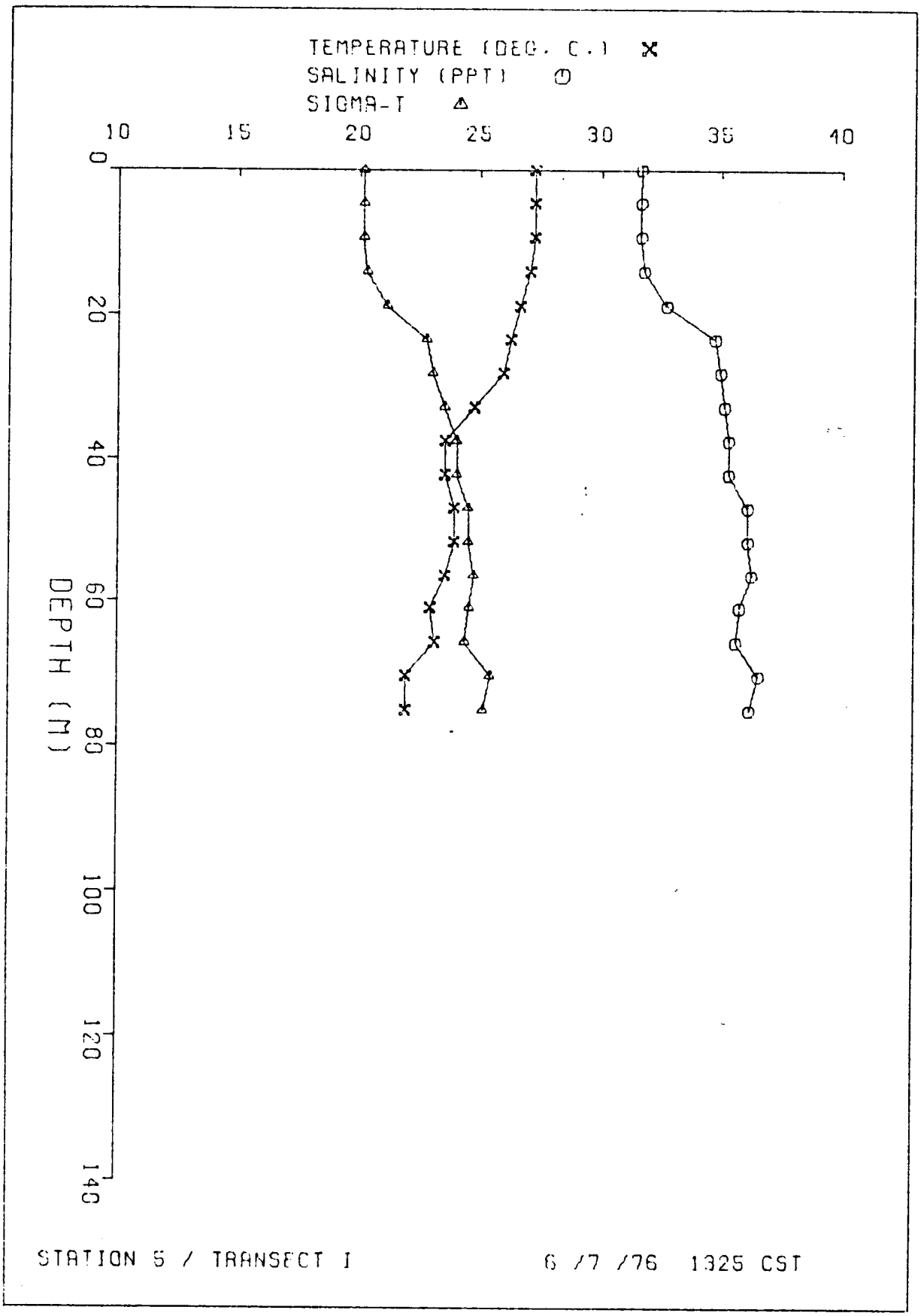
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	26.61	30.86	19.76	798.3	0.00	0.00	1534.0	0.0
3.0	26.61	30.86	19.76	798.8	.24	.00	1534.1	0.0
6.0	26.61	30.86	19.76	798.9	.48	.01	1534.1	39.2
9.0	26.51	30.92	19.83	791.9	.72	.03	1534.0	68.3
12.0	26.32	31.04	19.98	777.5	.95	.06	1533.7	68.3
15.0	26.22	31.10	20.06	770.4	1.18	.09	1533.6	39.3
18.0	26.22	31.10	20.05	770.5	1.41	.13	1533.7	68.5
21.0	25.94	31.28	20.28	748.8	1.64	.17	1533.3	227.7
24.0	23.43	33.32	22.56	530.5	1.83	.22	1529.5	252.4
27.0	22.47	34.02	23.37	453.7	1.98	.26	1528.0	170.2
30.0	22.08	34.67	23.96	396.7	2.11	.29	1527.8	125.4
33.0	21.89	34.81	24.13	381.1	2.22	.33	1527.5	121.2
36.0	21.89	35.53	24.68	329.1	2.33	.37	1528.4	106.2
39.0	21.89	35.53	24.68	329.3	2.43	.41	1528.4	0.0
41.0	21.89	35.53	24.68	329.4	2.49	.43	1528.4	0.0

HYDROGRAPHIC CAST DATA STATION 5 / TRANSECT I
6/ 7/76 1325 CST SAMPLE CODE LBK

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	26,35	31,65	20,43	734,0	0,00	0,00	1534,3	0,0
4,7	26,35	31,64	20,42	734,6	,34	,01	1534,3	0,0
9,4	26,35	31,64	20,42	734,8	,69	,03	1534,4	45,6
14,1	26,15	31,77	20,58	719,8	1,03	,07	1534,2	114,8
18,8	25,75	32,72	21,42	639,5	1,35	,13	1534,4	102,4
23,4	25,35	34,75	23,07	482,3	1,61	,18	1535,7	159,7
28,1	25,05	34,96	23,32	458,0	1,83	,24	1535,4	99,1
32,8	23,85	35,14	23,81	411,5	2,04	,30	1532,8	113,0
37,5	22,65	35,31	24,29	365,8	2,22	,37	1530,1	79,5
42,2	22,65	35,31	24,29	366,1	2,39	,44	1530,1	80,3
46,9	23,05	36,11	24,78	319,5	2,55	,51	1532,1	80,3
51,6	23,05	36,11	24,78	319,8	2,71	,59	1532,2	56,0
56,3	22,65	36,27	25,02	297,1	2,85	,67	1531,5	17,6
60,9	22,05	35,77	24,81	317,4	2,99	,75	1529,4	0,0
65,6	22,25	35,61	24,63	334,4	3,15	,85	1529,9	107,8
70,3	21,05	36,56	25,69	233,8	3,28	,95	1527,9	100,2
75,0	21,05	36,18	25,40	261,9				


TEMPERATURE (DEG. C.) ✕
SALINITY (PPT) ①
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 1 / TRANSECT I
6 /7 /76 1910 CST


TEMPERATURE (DEG. C.) X
SALINITY (PPT) O
SIGMA-T Δ
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 2 / TRANSECT I
6 /7 /76 1620 CST

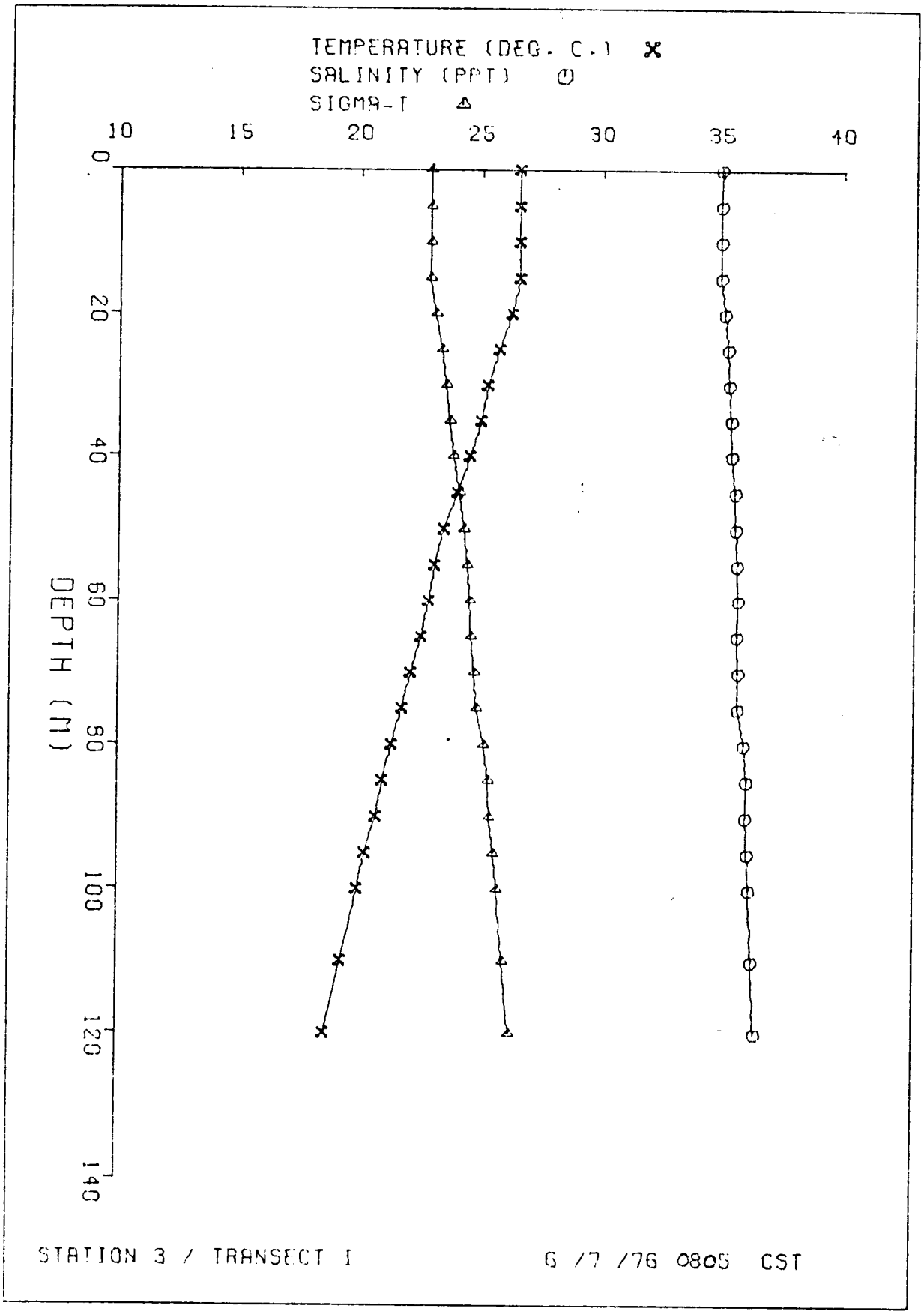

TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 5 / TRANSECT I
6 /7 /76 1325 CST

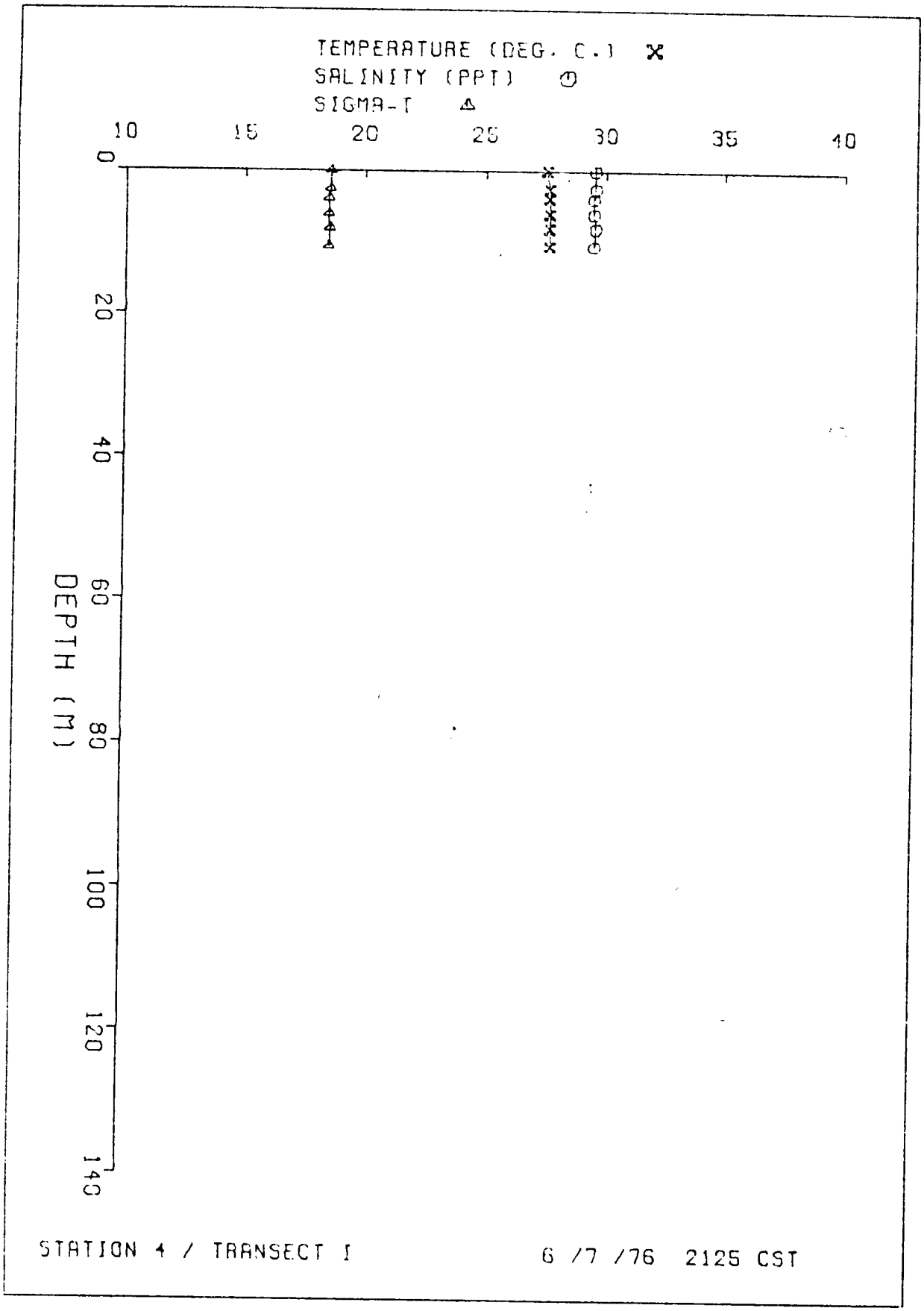
HYDROGRAPHIC CAST DATA STATION 3 / TRANSECT I
6/ 7/76 0805 CST SAMPLE CODE KZP

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	26.50	34.92	22.84	503.0	0.00	0.00	1538.2	0.0
5.0	26.50	34.91	22.84	503.6	.25	.01	1538.3	0.0
10.0	26.50	34.91	22.84	503.8	.50	.03	1538.4	0.0
15.0	26.52	34.91	22.82	505.0	.76	.05	1538.5	52.0
20.0	26.18	35.07	23.05	483.3	1.00	.10	1538.0	78.3
25.0	25.67	35.21	23.32	458.1	1.24	.16	1537.0	75.0
30.0	25.20	35.27	23.51	440.3	1.46	.22	1536.1	64.2
35.0	24.93	35.35	23.65	426.8	1.68	.29	1535.6	61.8
40.0	24.48	35.39	23.82	411.3	1.89	.37	1534.7	73.1
45.0	23.97	35.54	24.08	385.9	2.09	.46	1533.7	75.0
50.0	23.41	35.57	24.27	368.2	2.28	.55	1532.5	65.3
55.0	23.04	35.64	24.43	353.4	2.46	.65	1531.7	56.3
60.0	22.81	35.68	24.53	344.2	2.63	.75	1531.2	43.5
65.0	22.51	35.64	24.58	339.2	2.80	.86	1530.5	51.4
70.0	22.08	35.69	24.74	324.2	2.97	.97	1529.6	55.0
75.0	21.74	35.68	24.83	316.2	3.13	1.09	1528.8	70.6
80.0	21.32	35.94	25.14	286.2	3.28	1.21	1528.1	79.7
85.0	20.95	36.07	25.34	267.7	3.42	1.33	1527.3	54.6
90.0	20.68	36.03	25.39	263.6	3.55	1.45	1526.6	52.7
95.0	20.24	36.11	25.57	246.6	3.68	1.57	1525.6	63.2
100.0	19.92	36.19	25.71	233.2	3.80	1.69	1524.9	58.0
110.0	19.25	36.30	25.97	208.8	4.02	1.93	1523.4	57.6
120.0	18.58	36.44	26.25	182.8	4.22	2.16	1521.8	58.5

HYDROGRAPHIC CAST DATA STATION 4 / TRANSECT I
6/ 7/76 2125 CST SAMPLE CODE L8I

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	26,50	30,36	19,41	831,2	0,00	0,00	1533,2	0,0
2,5	26,60	30,37	19,39	834,2	,21	,00	1533,5	0,0
3,8	26,60	30,30	19,33	839,3	,32	,01	1533,4	0,0
6,0	26,60	30,30	19,33	839,4	,50	,02	1533,5	40,0
8,0	26,60	30,36	19,39	834,5	,67	,03	1533,6	17,4
12,5	26,60	30,29	19,33	839,7	,88	,05	1533,5	0,0

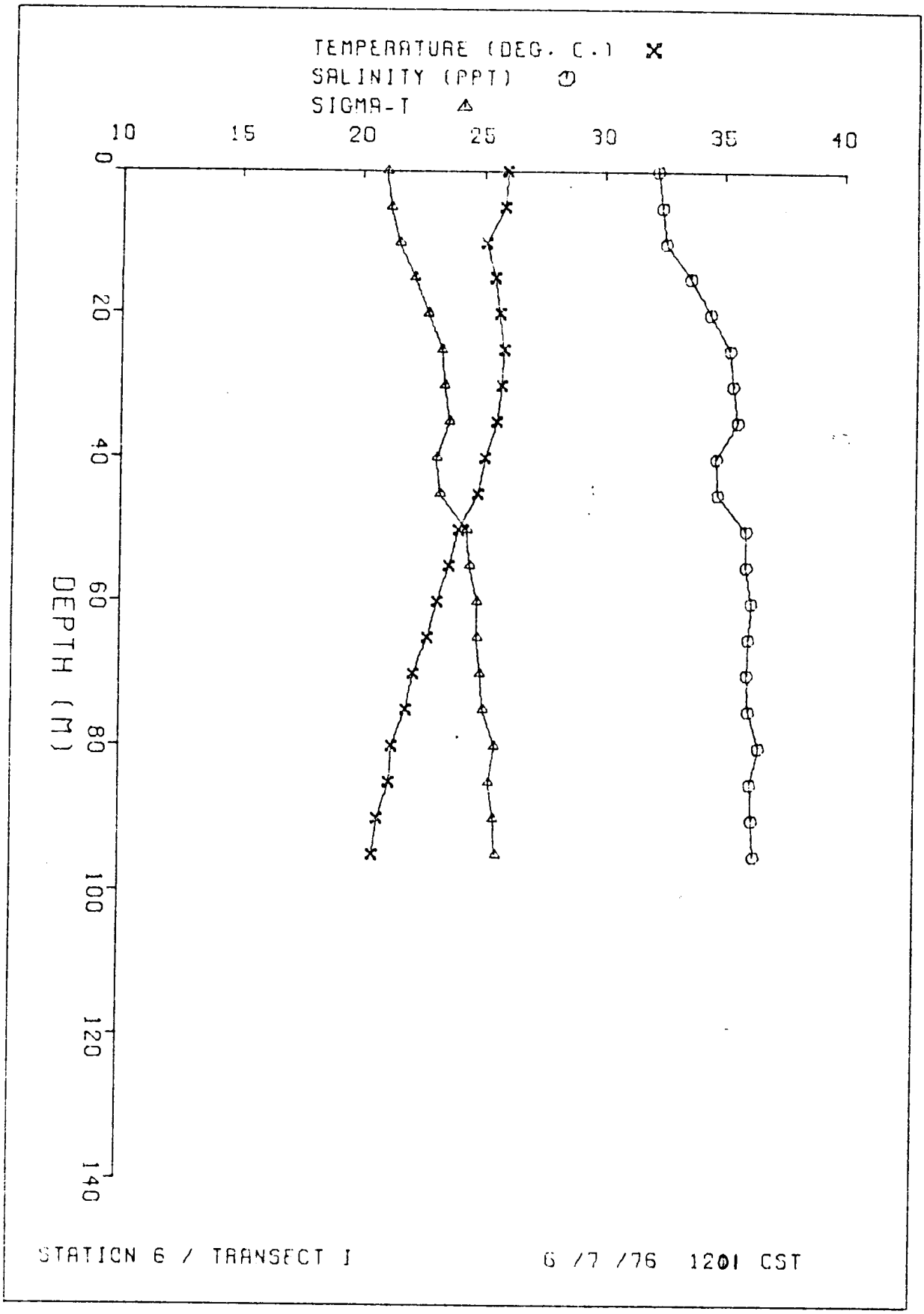

TEMPERATURE (DEG. C.) X
SALINITY (PPT) O
SIGMA-T Δ
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 3 / TRANSECT I
6 /7 /76 0805 CST


TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 4 / TRANSECT I
6 /7 /76 2125 CST

HYDROGRAPHIC CAST DATA STATION 6 / TRANSECT I

6/ 7/76 1201 CST SAMPLE CODE LBN

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D.	POT EN	SOUND VEL	BV FRQ
0.0	25.95	32.19	20.96	683.0	0.00	0.00	1533.9	64.8
5.0	25.85	32.37	21.13	667.2	.34	.01	1534.0	81.4
10.0	25.68	32.55	21.49	632.4	.66	.03	1532.5	112.7
15.0	25.47	33.58	22.15	569.5	.96	.07	1534.6	123.2
20.0	25.66	34.41	22.72	515.6	1.23	.12	1536.0	118.4
25.0	25.85	35.24	23.28	461.9	1.48	.18	1537.5	92.6
30.0	25.76	35.37	23.41	449.8	1.71	.24	1537.5	64.7
35.0	25.56	35.57	23.62	430.0	1.93	.31	1537.3	0.0
40.0	25.08	34.67	23.09	480.5	2.15	.40	1535.3	0.0
45.0	24.79	34.74	23.23	467.3	2.40	.51	1534.8	126.2
50.0	24.02	35.95	24.38	358.2	2.60	.60	1534.4	125.4
55.0	23.63	35.96	24.50	346.4	2.78	.70	1533.5	73.3
60.0	23.15	36.19	24.81	317.2	2.94	.80	1532.7	63.7
65.0	22.76	36.06	24.83	315.5	3.10	.90	1531.7	42.8
70.0	22.18	36.02	24.96	303.4	3.26	1.01	1530.2	57.8
75.0	21.89	36.09	25.10	290.2	3.41	1.12	1529.6	88.9
80.0	21.31	36.54	25.60	243.0	3.54	1.22	1528.7	56.4
85.0	21.22	36.19	25.36	266.0	3.67	1.33	1528.2	0.0
90.0	20.73	36.27	25.56	247.3	3.80	1.45	1527.1	61.8
95.0	20.54	36.35	25.67	236.9	3.92	1.56	1526.7	52.4

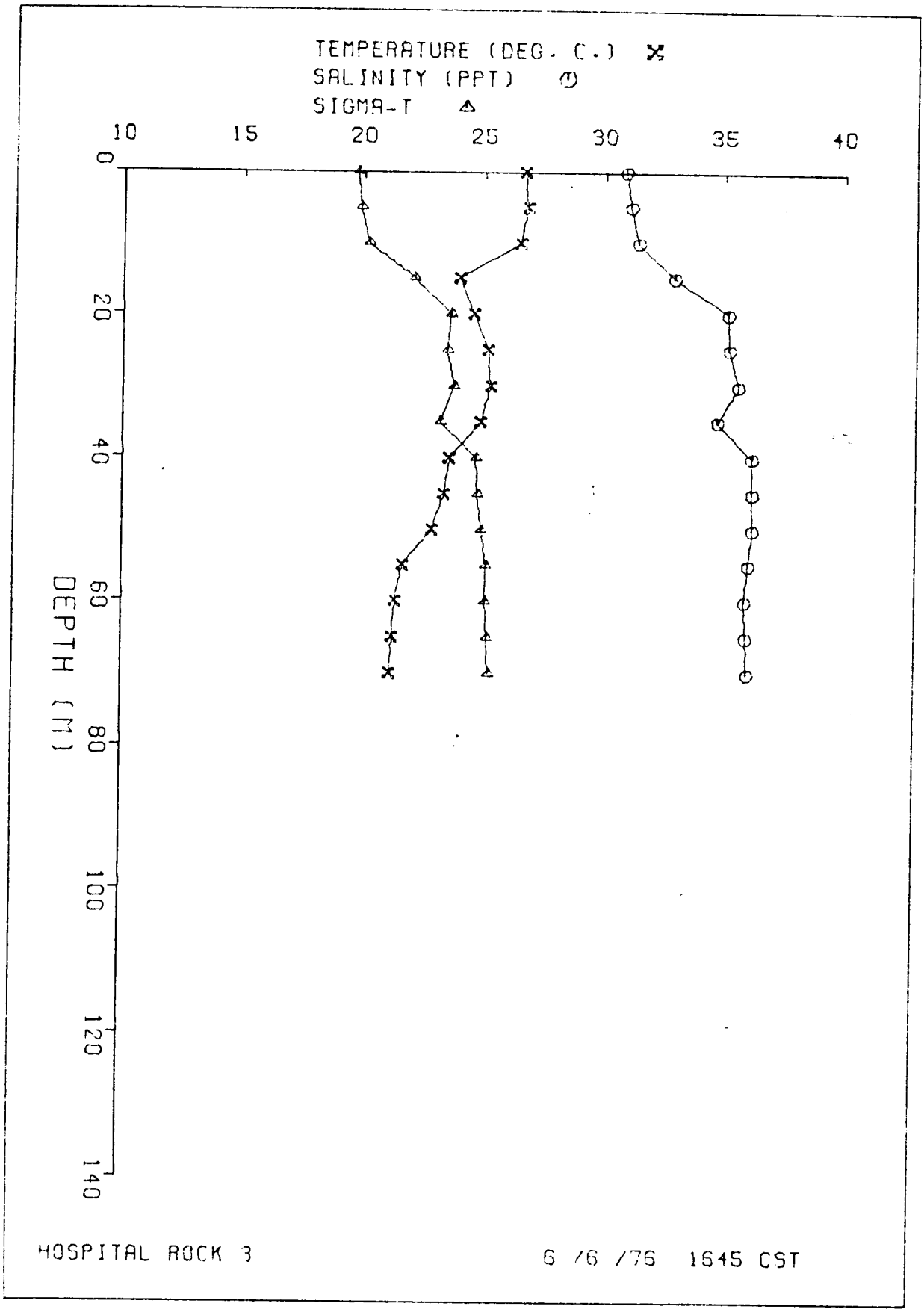

TEMPERATURE (DEG. C.) X
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 6 / TRANSECT I
6 /7 /76 1201 CST

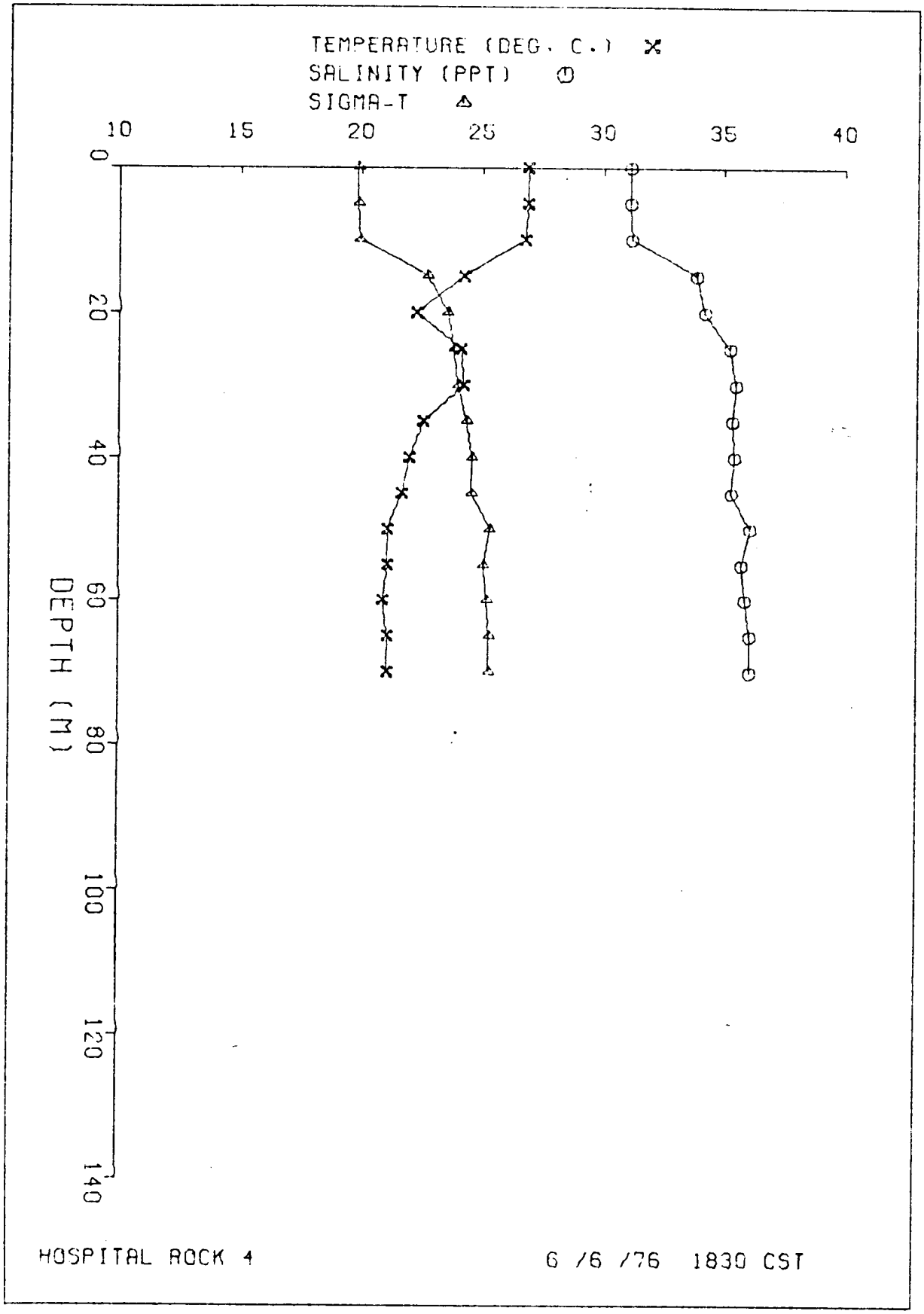
HYDROGRAPHIC CAST DATA HOSPITAL ROCK 3
6/ 6/76 1645 CST SAMPLE CODE LSG

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	26.65	30.84	19.73	801.3	0.00	0.00	1534.1	54.7
5.0	26.75	31.04	19.85	790.1	.40	.01	1534.6	75.1
10.0	26.45	31.36	20.18	758.2	.79	.04	1534.4	166.3
15.0	23.95	32.87	22.07	576.9	1.12	.08	1530.2	205.8
20.0	24.55	35.13	23.60	431.5	1.37	.13	1534.2	130.7
25.0	25.15	35.18	23.45	445.5	1.59	.18	1535.8	41.3
30.0	25.25	35.59	23.73	418.8	1.80	.24	1536.6	0.0
35.0	24.85	34.69	23.18	472.0	2.02	.31	1534.7	107.8
40.0	23.55	36.16	24.67	329.7	2.22	.39	1533.3	138.8
45.0	23.35	36.16	24.74	323.7	2.39	.46	1532.9	52.8
50.0	22.85	36.19	24.90	308.6	2.55	.54	1531.8	67.5
55.0	21.65	36.01	25.11	289.0	2.70	.62	1528.6	47.5
60.0	21.35	35.87	25.08	291.5	2.84	.70	1527.7	27.6
65.0	21.25	35.95	25.17	283.5	2.99	.79	1527.6	46.2
70.0	21.15	36.02	25.25	275.5	3.13	.89	1527.6	46.2

HYDROGRAPHIC CAST DATA HOSPITAL ROCK 4
6/ 6/76 1830 CST SAMPLE CODE LTA

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	26.85	31.09	19.85	789.5	0.00	0.00	1534.8	0.0
5.0	26.85	31.08	19.85	790.0	.39	.01	1534.9	30.0
10.0	26.75	31.14	19.92	783.2	.79	.04	1534.8	189.1
15.0	24.22	33.84	22.73	514.5	1.11	.08	1531.9	212.0
20.0	22.28	34.19	23.55	435.9	1.34	.12	1527.5	115.5
25.0	24.13	35.23	23.80	412.0	1.55	.17	1533.4	72.2
30.0	24.22	35.49	23.97	396.1	1.76	.23	1534.0	81.8
35.0	22.57	35.35	24.34	360.8	1.94	.29	1529.9	86.3
40.0	21.99	35.43	24.57	339.0	2.12	.36	1528.6	51.1
45.0	21.69	35.30	24.55	341.0	2.29	.43	1527.7	95.9
50.0	21.11	36.09	25.32	268.6	2.44	.50	1527.2	78.0
55.0	21.11	35.74	25.05	294.5	2.58	.58	1526.9	0.0
60.0	20.92	35.89	25.21	279.0	2.73	.66	1526.6	57.5
65.0	21.11	36.09	25.31	269.5	2.86	.75	1527.4	35.3
70.0	21.11	36.09	25.31	269.8	3.00	.85	1527.5	0.0


TEMPERATURE (DEG. C.)
SALINITY (PPT)
SIGMA-T
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
HOSPITAL ROCK 3
6 /6 /76 1645 CST

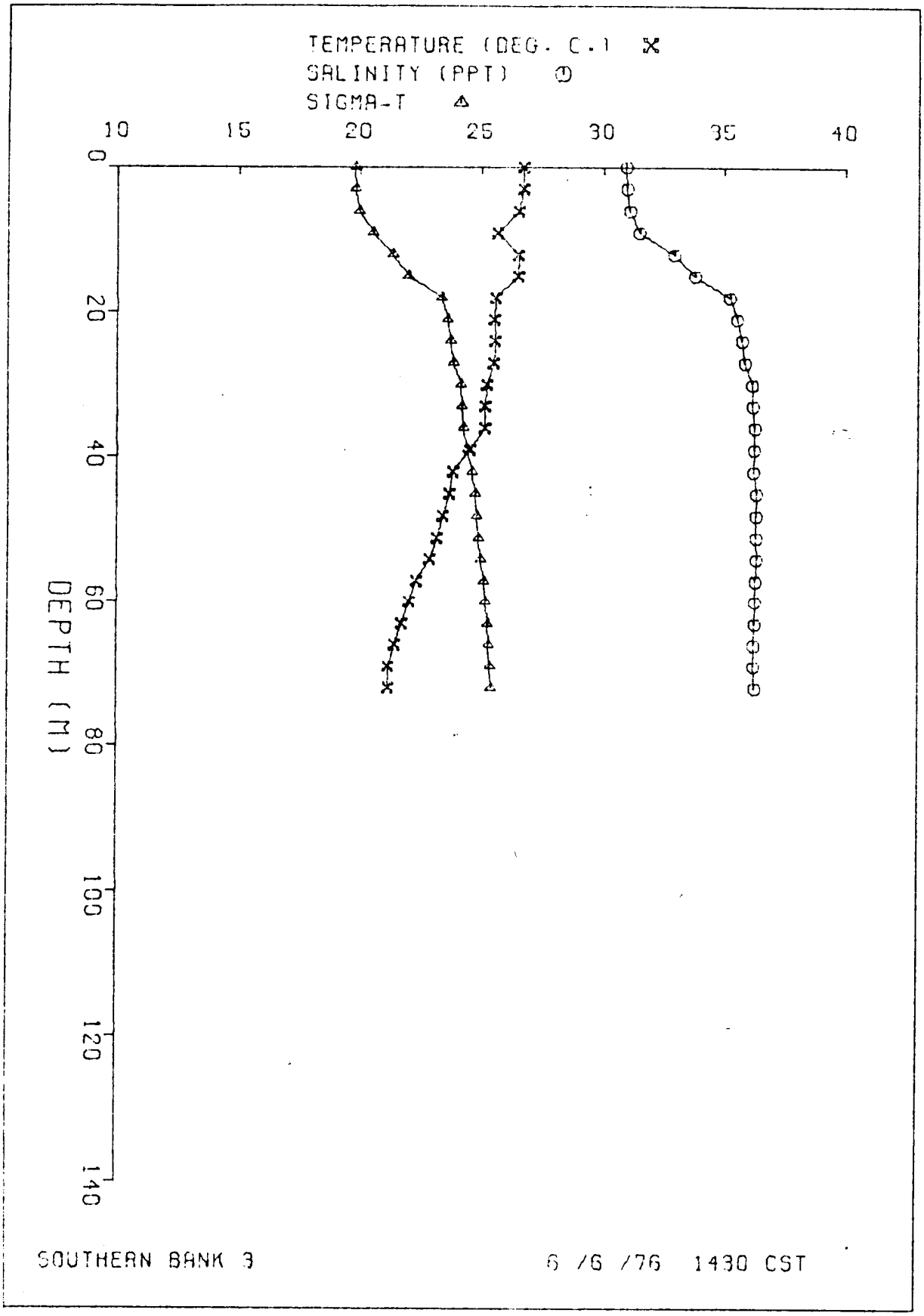

TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
HOSPITAL ROCK 4
6 /6 /76 1830 CST

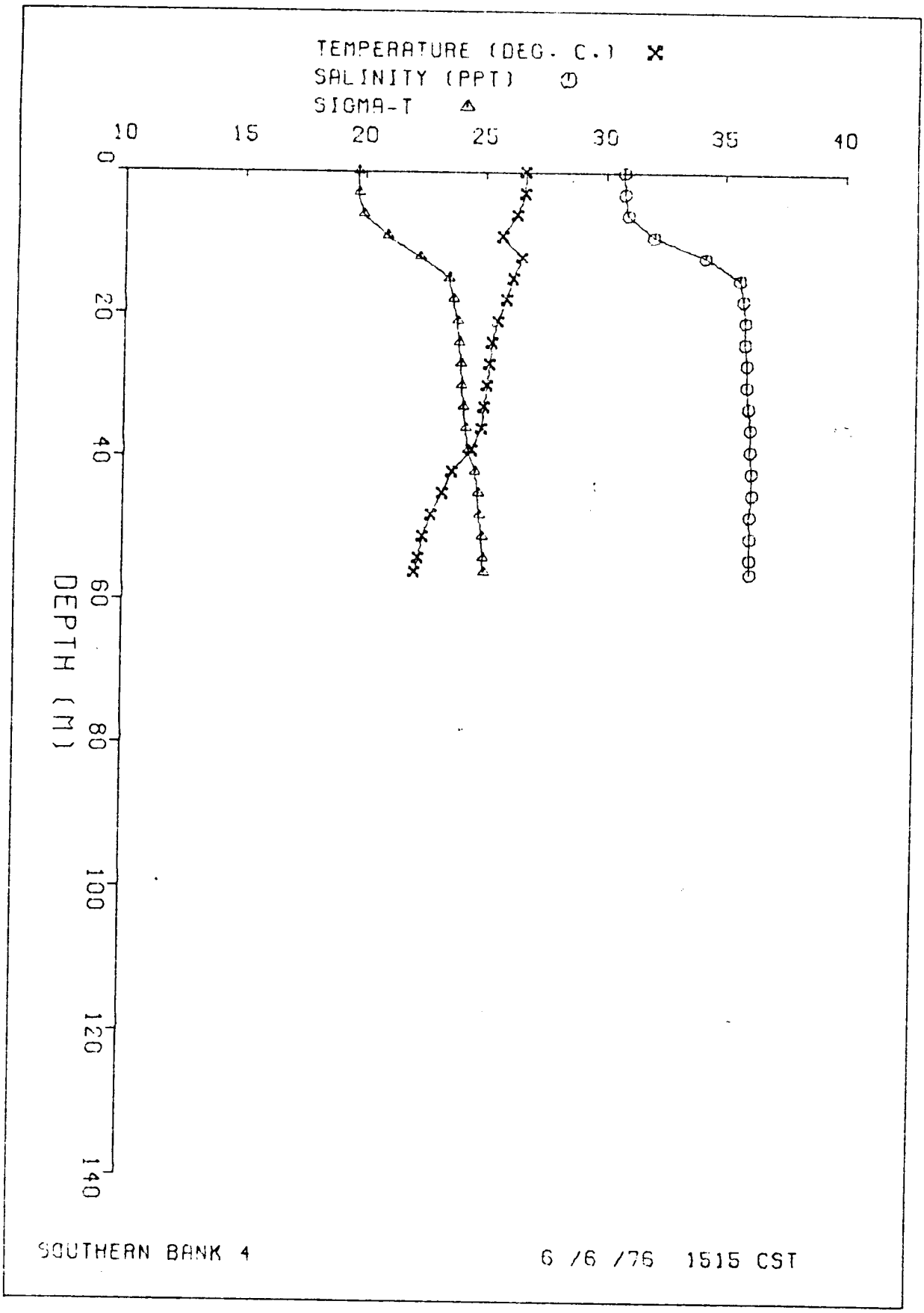
HYDROGRAPHIC CAST DATA SOUTHERN BANK 3
6/ 6/76 1430 CST SAMPLE CODE LRK

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	26.72	30.95	19.78	795.6	0.00	0.00	1534.4	30.5
3.0	26.72	30.98	19.81	793.9	.24	.00	1534.4	59.7
6.0	26.53	31.10	19.96	779.6	.47	.01	1534.2	121.9
9.0	25.66	31.50	20.53	725.0	.70	.03	1532.6	169.8
12.0	26.52	32.95	21.35	646.1	.91	.05	1536.3	174.1
15.0	26.51	33.80	21.99	584.7	1.09	.08	1537.2	204.5
18.0	25.58	35.25	23.37	452.8	1.25	.10	1536.8	182.9
21.0	25.54	35.55	23.61	430.1	1.38	.13	1537.0	88.6
24.0	25.57	35.75	23.75	416.7	1.50	.16	1537.4	71.9
27.0	25.51	35.87	23.86	406.5	1.63	.19	1537.4	94.6
30.0	25.24	36.19	24.19	375.6	1.75	.23	1537.2	85.8
33.0	25.16	36.20	24.22	372.7	1.86	.26	1537.1	45.4
36.0	25.16	36.29	24.29	366.3	1.97	.30	1537.2	70.5
39.0	24.54	36.27	24.46	349.9	2.08	.34	1535.8	86.1
42.0	23.84	36.24	24.65	332.2	2.18	.39	1534.1	81.1
45.0	23.70	36.36	24.78	319.8	2.28	.43	1534.0	64.4
48.0	23.44	36.35	24.85	313.3	2.37	.47	1533.4	54.1
51.0	23.19	36.35	24.92	306.5	2.47	.52	1532.8	58.3
54.0	22.90	36.36	25.01	297.9	2.56	.57	1532.2	67.6
57.0	22.34	36.32	25.14	285.6	2.64	.62	1530.8	63.3
60.0	22.06	36.30	25.21	279.6	2.73	.67	1530.1	54.9
63.0	21.74	36.29	25.29	271.8	2.81	.72	1529.3	51.7
66.0	21.46	36.25	25.34	267.4	2.89	.78	1528.6	46.9
69.0	21.19	36.23	25.40	261.9	2.97	.83	1527.9	46.5
72.0	21.19	36.29	25.44	257.7	3.05	.89	1528.0	43.3

HYDROGRAPHIC CAST DATA SOUTHERN BANK 4
6/ 6/76 1515 CST SAMPLE CODE LSE

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	26.61	30.73	19.66	808.0	0.00	0.00	1533.9	27.4
3.0	26.60	30.75	19.67	806.7	.24	.00	1533.9	68.4
6.0	26.27	30.89	19.88	786.8	.48	.01	1533.4	158.8
9.0	25.67	31.99	20.89	689.8	.70	.03	1533.2	221.6
12.0	26.49	34.14	22.25	559.4	.89	.05	1537.5	230.5
15.0	26.12	35.59	23.46	444.1	1.04	.07	1538.3	169.8
18.0	25.85	35.73	23.65	426.1	1.17	.09	1537.9	88.2
21.0	25.49	35.83	23.84	408.4	1.30	.12	1537.2	72.5
24.0	25.27	35.83	23.91	402.0	1.42	.15	1536.8	57.2
27.0	25.17	35.91	24.00	393.5	1.54	.18	1536.7	50.4
30.0	25.09	35.92	24.03	390.5	1.65	.21	1536.6	50.1
33.0	24.97	35.99	24.12	382.1	1.77	.25	1536.4	63.5
36.0	24.87	36.09	24.23	372.1	1.88	.29	1536.3	67.3
39.0	24.47	36.08	24.34	361.4	1.99	.33	1535.4	91.3
42.0	23.67	36.15	24.63	333.8	2.10	.38	1533.6	93.4
45.0	23.27	36.17	24.76	321.3	2.20	.42	1532.7	63.3
48.0	22.82	36.08	24.83	315.5	2.29	.46	1531.5	60.5
51.0	22.47	36.10	24.94	304.6	2.39	.51	1530.7	58.1
54.0	22.34	36.10	24.99	300.1	2.48	.56	1530.4	50.4
56.0	22.15	36.11	25.04	295.4	2.54	.59	1530.0	55.6


TEMPERATURE (DEG. C.) X
SALINITY (PPT) O
SIGMA-T Δ
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
SOUTHERN BANK 3
6 /6 /76 1430 CST


TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
SOUTHERN BANK 4
6 /6 /76 1515 CST

HYDROGRAPHIC CAST DATA STATION 1 / TRANSECT II
6/ 3/76 945 CST SAMPLE CODE LBQ

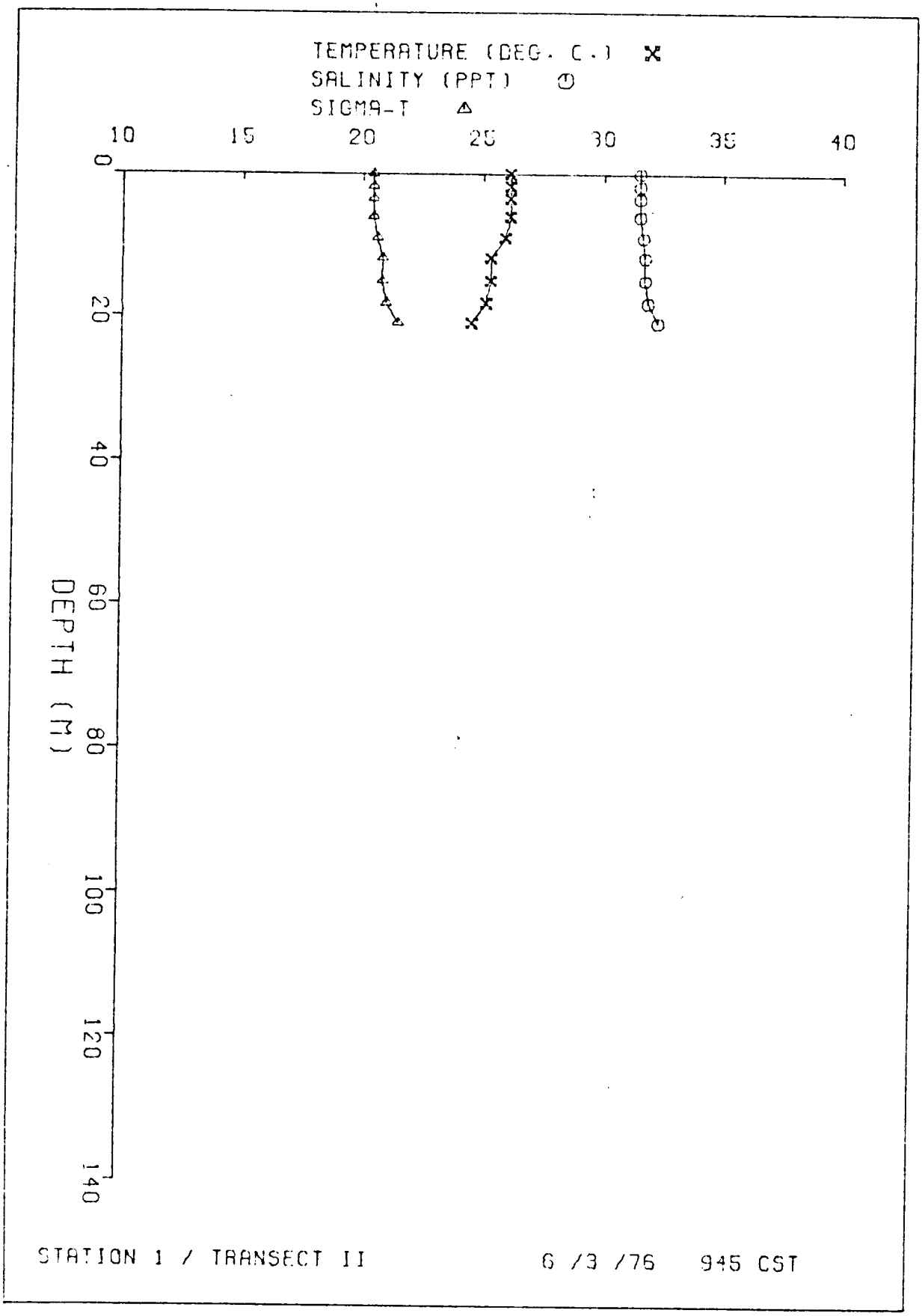
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	26,10	31,51	20,40	736,4	0,00	0,00	1533,5	0,0
1,8	26,10	31,51	20,40	736,8	,13	,00	1533,6	0,0
3,5	26,10	31,51	20,40	736,9	,26	,00	1533,6	0,0
6,0	26,10	31,51	20,40	737,0	,44	,01	1533,6	50,0
9,0	25,90	31,64	20,56	721,4	,66	,03	1533,4	89,3
12,0	25,30	31,70	20,79	700,2	,87	,05	1532,1	67,7
15,1	25,30	31,70	20,78	700,4	1,09	,08	1532,1	57,2
18,2	25,10	31,83	20,95	684,7	1,30	,12	1531,8	119,5
21,0	24,50	32,25	21,44	637,3	1,49	,16	1530,9	148,3

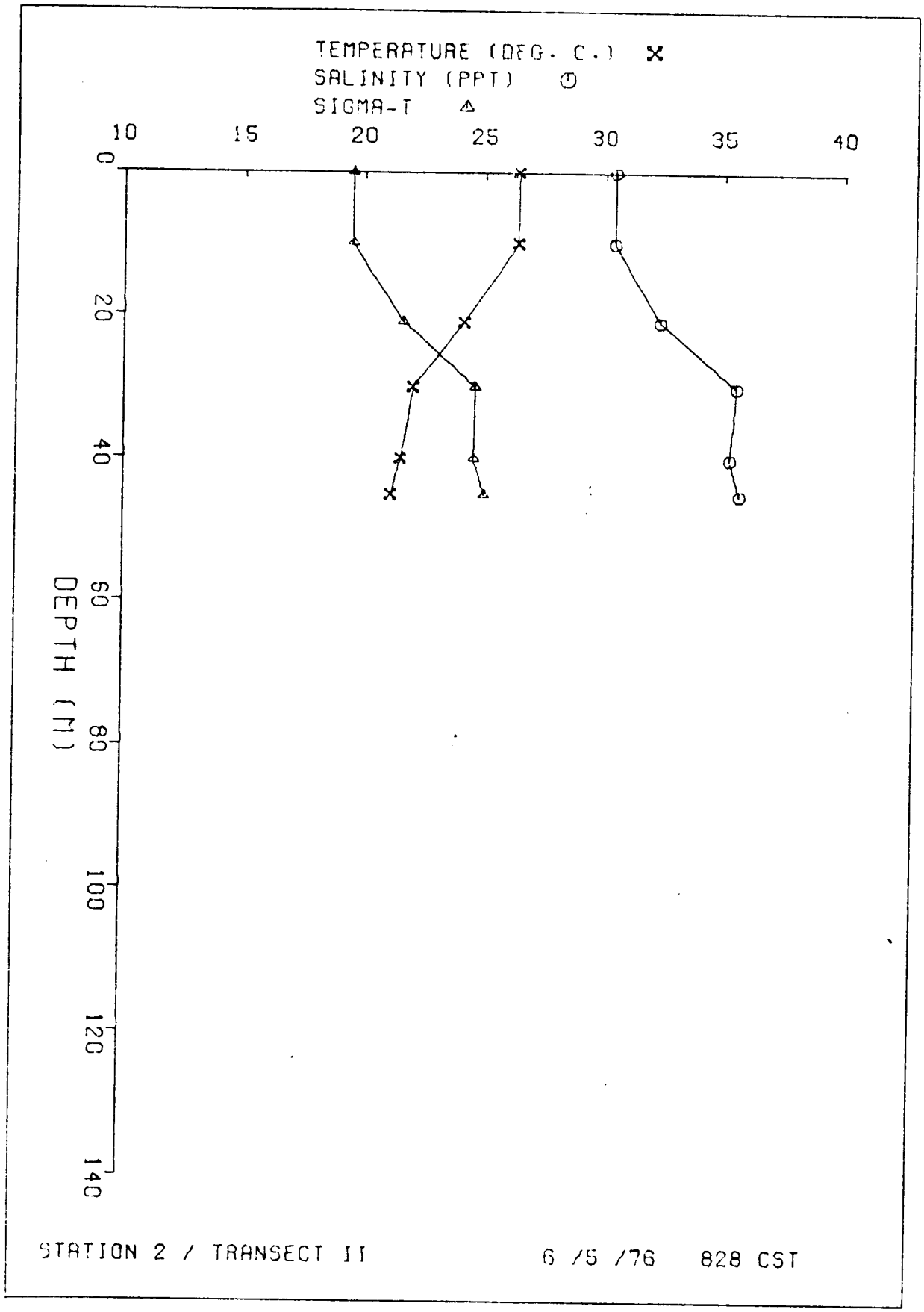
HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT II
6/ 5/76 828 CST SAMPLE CODE LDG

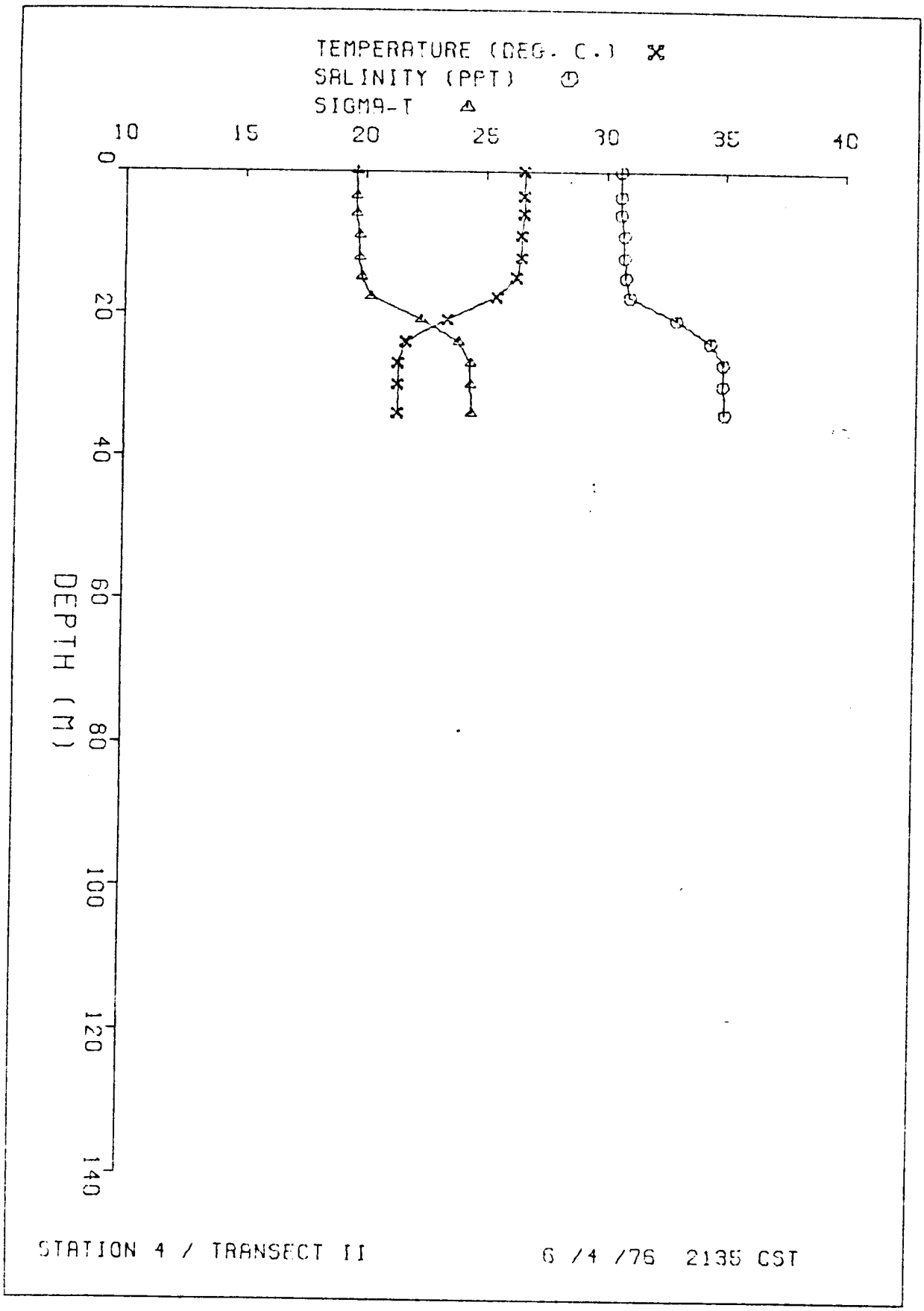
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	26,38	30,39	19,47	825,5	0,00	0,00	1533,0	12,3
10,0	26,36	30,40	19,49	825,0	,82	,04	1533,1	109,8
21,0	24,12	32,32	21,60	621,9	1,63	,17	1530,1	180,8
30,0	22,02	35,50	24,61	334,7	2,07	,27	1528,6	142,6
40,0	21,52	35,24	24,56	340,3	2,41	,40	1527,1	70,4
45,0	21,12	35,66	24,99	299,8	2,57	,47	1526,6	102,9

HYDROGRAPHIC CAST DATA STATION 4 / TRANSECT II
6/ 4/76 2135 CST SAMPLE CODE LGS

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	26,52	30,58	19,57	816,2	0,00	0,00	1533,5	0,0
3,5	26,52	30,58	19,57	816,7	,28	,01	1533,6	0,0
6,0	26,52	30,58	19,57	816,8	,49	,01	1533,6	52,1
9,0	26,42	30,71	19,70	804,3	,73	,03	1533,6	52,1
12,2	26,42	30,71	19,70	804,4	,99	,06	1533,6	48,8
15,0	26,22	30,77	19,81	794,2	1,21	,09	1533,2	103,9
17,8	25,40	30,94	20,19	757,8	1,43	,13	1531,6	224,0
20,9	23,37	32,91	22,27	558,1	1,63	,17	1528,9	270,3
24,0	21,64	34,35	23,84	408,1	1,78	,20	1526,2	204,1
27,0	21,34	34,89	24,34	360,7	1,89	,23	1526,0	101,3
30,0	21,34	34,89	24,34	360,9	2,00	,26	1526,1	29,7
34,0	21,34	34,97	24,40	355,5	2,15	,31	1526,2	42,4

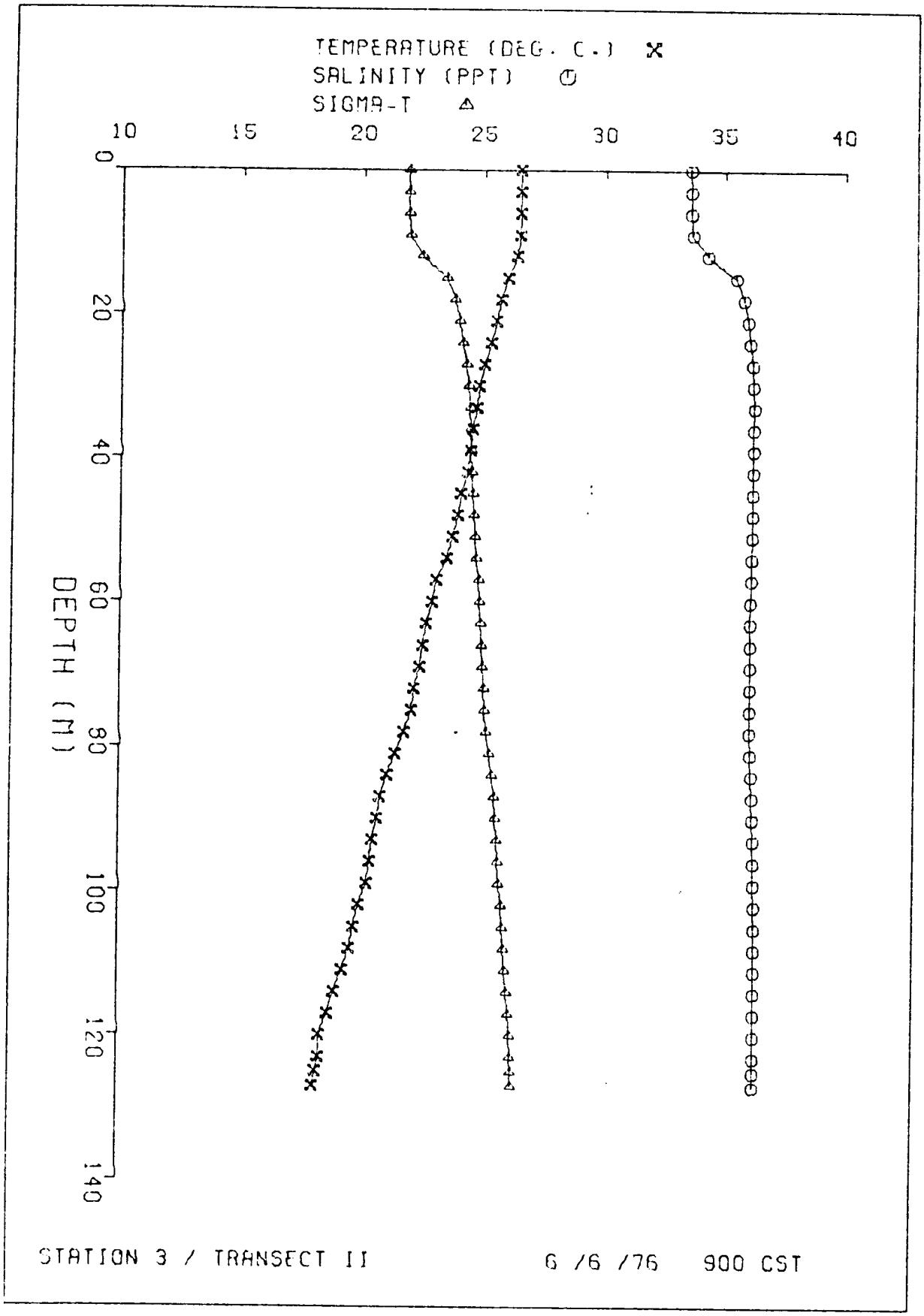

TEMPERATURE (DEG. C.) ✕
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 1 / TRANSECT II
6 /3 /76 945 CST


TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 2 / TRANSECT II
6 /5 /76 828 CST


TEMPERATURE (DEG. C.) ✕
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 4 / TRANSECT II
6 /4 /76 2135 CST

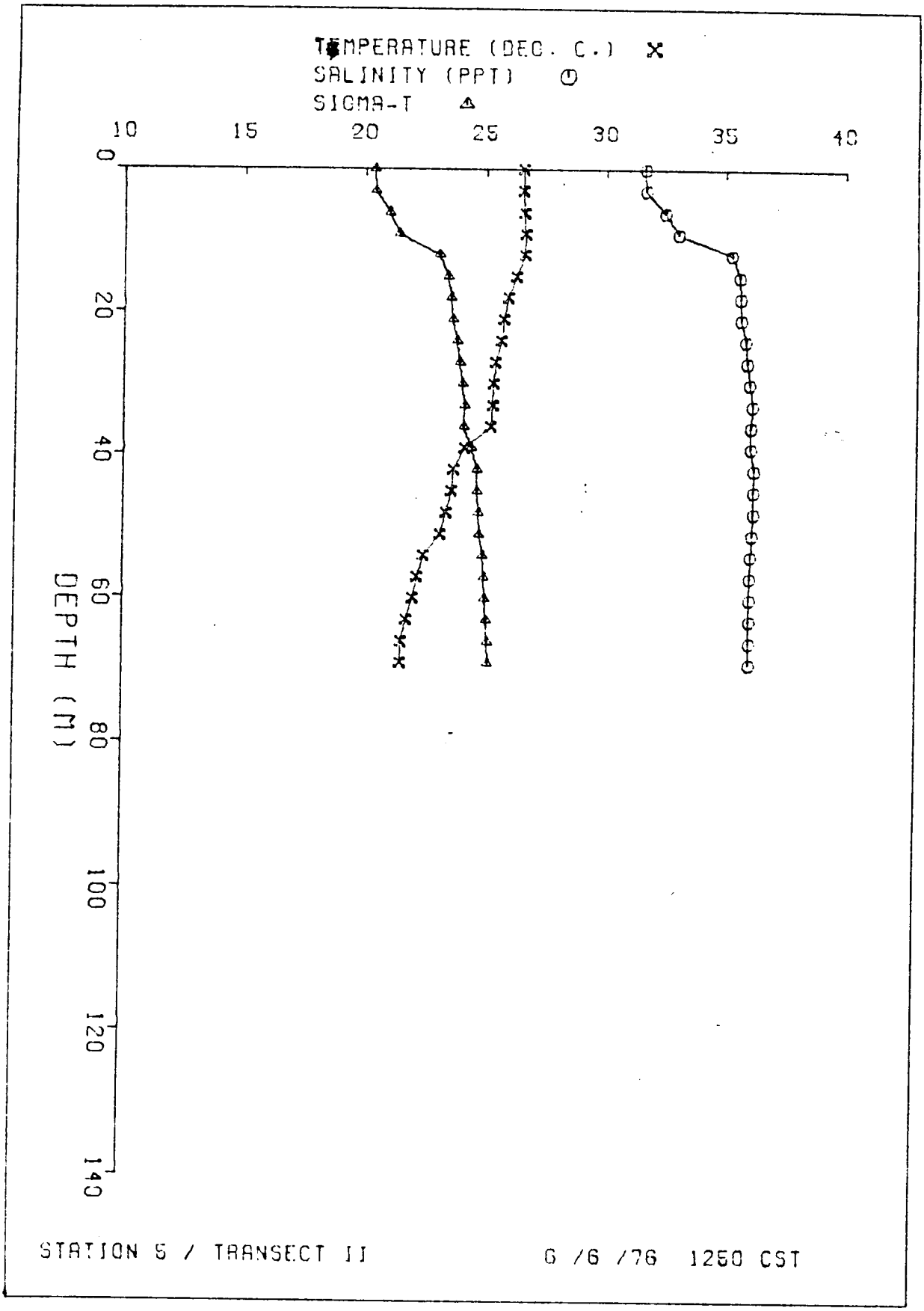
HYDROGRAPHIC CAST DATA STATION 3 / TRANSECT II
6/ 6/76 900 CST SAMPLE CODE LEX

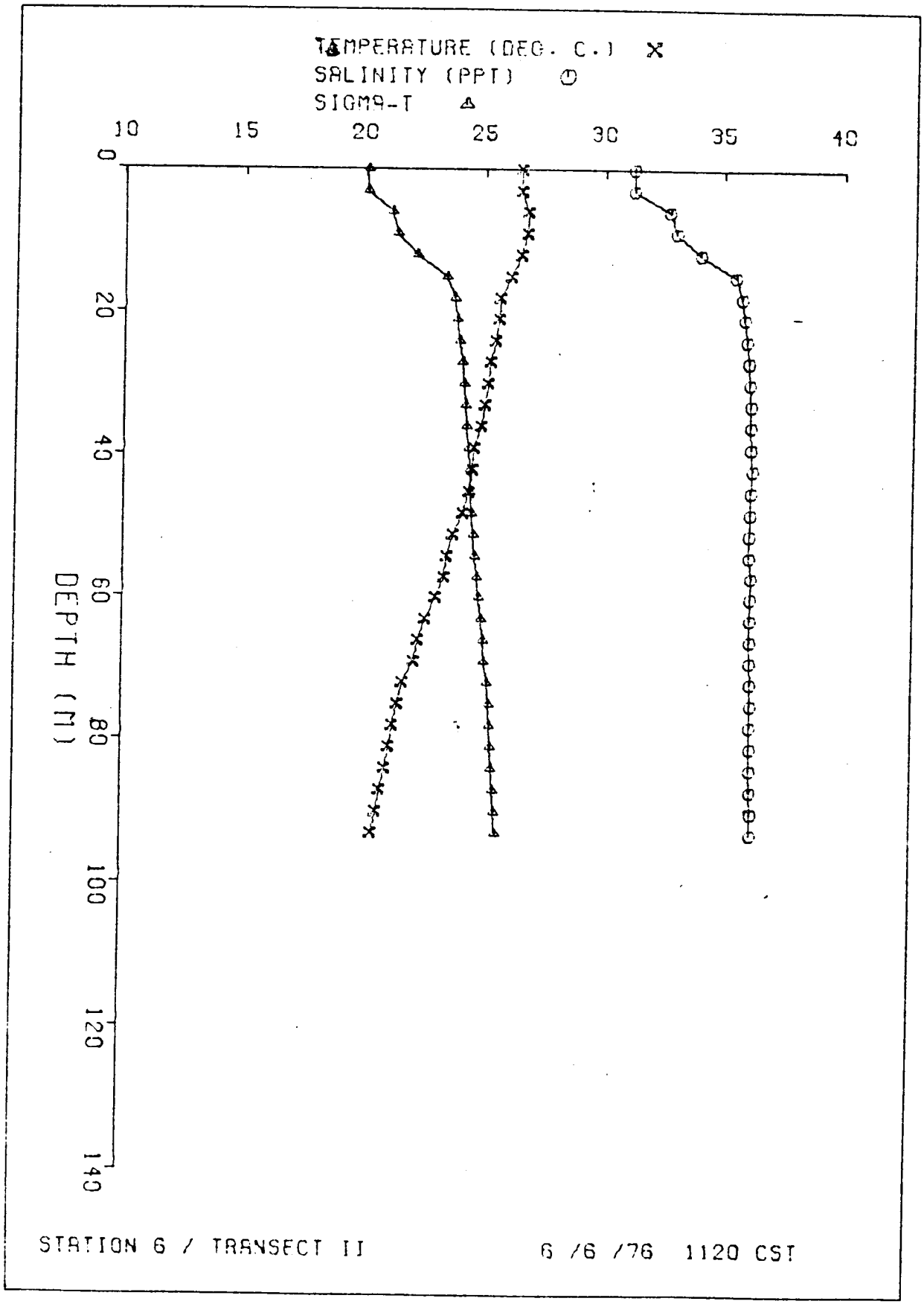
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	26,45	33,53	21,81	601,5	0,00	0,00	1536,6	17,5
3,0	26,45	33,54	21,81	601,2	,18	,00	1536,6	17,5
6,0	26,45	33,55	21,82	600,6	,36	,01	1536,7	36,8
9,0	26,43	33,61	21,88	595,1	,54	,02	1536,8	109,4
12,0	26,31	34,26	22,40	545,5	,71	,04	1537,2	178,3
15,0	25,94	35,45	23,42	448,3	,86	,06	1537,8	167,3
18,0	25,66	35,79	23,76	416,1	,99	,09	1537,5	105,0
21,0	25,47	35,97	23,95	397,6	1,11	,11	1537,3	82,6
24,0	25,27	36,07	24,09	384,8	1,23	,14	1537,0	79,9
27,0	24,99	36,19	24,26	368,3	1,34	,17	1536,6	72,5
30,0	24,78	36,21	24,34	360,7	1,45	,20	1536,1	54,7
33,0	24,69	36,25	24,41	354,7	1,56	,23	1536,0	44,7
36,0	24,53	36,23	24,44	351,7	1,67	,27	1535,7	35,8
39,0	24,43	36,23	24,47	349,0	1,77	,31	1535,5	32,7
42,0	24,33	36,22	24,49	347,0	1,88	,35	1535,3	44,0
45,0	24,07	36,22	24,56	340,3	1,98	,40	1534,7	47,6
48,0	23,94	36,22	24,60	336,8	2,08	,45	1534,4	44,9
51,0	23,71	36,21	24,66	331,2	2,18	,50	1533,9	47,2
54,0	23,50	36,19	24,71	326,7	2,28	,55	1533,4	59,3
57,0	23,05	36,18	24,83	315,2	2,38	,61	1532,4	55,2
60,0	22,89	36,15	24,86	312,8	2,47	,66	1532,0	41,5
63,0	22,66	36,14	24,92	307,5	2,56	,72	1531,4	47,0
66,0	22,51	36,15	24,96	302,8	2,66	,78	1531,1	41,5
69,0	22,39	36,15	25,00	299,7	2,75	,85	1530,9	44,9
72,0	22,17	36,15	25,06	293,7	2,84	,91	1530,4	43,5
75,0	22,07	36,15	25,09	291,2	2,92	,98	1530,2	47,8
78,0	21,77	36,15	25,17	283,4	3,01	1,04	1529,5	66,4
81,0	21,41	36,19	25,30	271,0	3,09	1,11	1528,6	73,0
84,0	21,08	36,23	25,43	259,0	3,17	1,18	1527,9	68,5
87,0	20,80	36,26	25,53	249,6	3,25	1,25	1527,2	55,6
90,0	20,67	36,28	25,58	244,9	3,32	1,31	1526,9	50,8
93,0	20,47	36,31	25,66	237,8	3,40	1,38	1526,5	48,0
96,0	20,39	36,33	25,69	234,5	3,47	1,45	1526,3	40,1
99,0	20,27	36,34	25,74	230,6	3,54	1,52	1526,0	57,6
102,0	19,93	36,38	25,86	219,4	3,61	1,59	1525,2	60,7
105,0	19,73	36,39	25,91	213,8	3,67	1,66	1524,8	46,7
108,0	19,56	36,39	25,96	209,5	3,73	1,73	1524,3	49,4
111,0	19,28	36,39	26,03	202,7	3,80	1,80	1523,6	57,1
114,0	18,95	36,39	26,12	194,6	3,86	1,87	1522,7	56,8
117,0	18,67	36,39	26,19	188,0	3,91	1,94	1522,0	56,0
120,0	18,35	36,39	26,27	180,2	3,97	2,00	1521,1	42,3
123,0	18,33	36,39	26,28	179,9	4,02	2,07	1521,1	33,1
125,0	18,20	36,39	26,31	176,9	4,06	2,12	1520,8	41,8
127,0	18,10	36,39	26,33	174,6	4,10	2,16	1520,5	39,0


TEMPERATURE (DEG. C.) ✕
SALINITY (PPT) ⏱
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 3 / TRANSECT II
6 /6 /76 900 CST

HYDROGRAPHIC CAST DATA STATION 5 / TRANSECT II
6/ 6/76 1250 CST SAMPLE CODE LGH

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	26,52	31,60	20,34	742,4	0,00	0,00	1534,6	35,5
3,0	26,52	31,64	20,37	739,9	,22	,00	1534,7	114,5
6,0	26,56	32,46	20,97	682,1	,43	,01	1535,7	143,9
9,0	26,62	33,02	21,37	644,0	,63	,03	1536,5	207,9
12,0	26,59	35,25	23,06	482,3	,80	,05	1539,0	205,8
15,0	26,25	35,59	23,42	448,0	,94	,07	1538,6	100,3
18,0	25,91	35,62	23,55	436,0	1,07	,09	1537,9	64,8
21,0	25,74	35,65	23,63	428,8	1,20	,11	1537,6	73,3
24,0	25,64	35,85	23,81	411,4	1,33	,14	1537,7	79,9
27,0	25,41	35,92	23,93	399,6	1,45	,17	1537,2	69,8
30,0	25,34	36,03	24,04	389,6	1,57	,21	1537,3	65,3
33,0	25,31	36,15	24,14	380,1	1,68	,25	1537,4	35,7
36,0	25,23	36,07	24,10	384,0	1,80	,29	1537,2	78,5
39,0	24,14	36,08	24,44	351,8	1,91	,33	1534,6	108,7
42,0	23,69	36,21	24,67	329,6	2,01	,37	1533,7	70,4
45,0	23,62	36,19	24,68	329,2	2,11	,41	1533,6	41,0
48,0	23,38	36,20	24,76	322,0	2,21	,46	1533,1	46,6
51,0	23,15	36,15	24,79	319,3	2,30	,51	1532,5	60,7
54,0	22,47	36,09	24,94	305,2	2,40	,56	1530,8	64,8
57,0	22,20	36,06	24,99	300,1	2,49	,61	1530,1	43,7
60,0	22,04	36,05	25,03	296,6	2,58	,67	1529,7	48,6
63,0	21,76	36,05	25,10	289,4	2,67	,72	1529,1	52,3
66,0	21,56	36,05	25,16	284,1	2,75	,78	1528,6	35,7
69,0	21,54	36,05	25,17	283,7	2,84	,84	1528,6	15,2


TEMPERATURE (DEG. C.) ✕
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 5 / TRANSECT II
6 /6 /76 1250 CST


TEMPERATURE (DEG. C.) X
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 6 / TRANSECT II
6 /6 /76 1120 CST

HYDROGRAPHIC CAST DATA STATION 6 / TRANSECT II
6/ 6/76 1120 CST SAMPLE CODE LGX

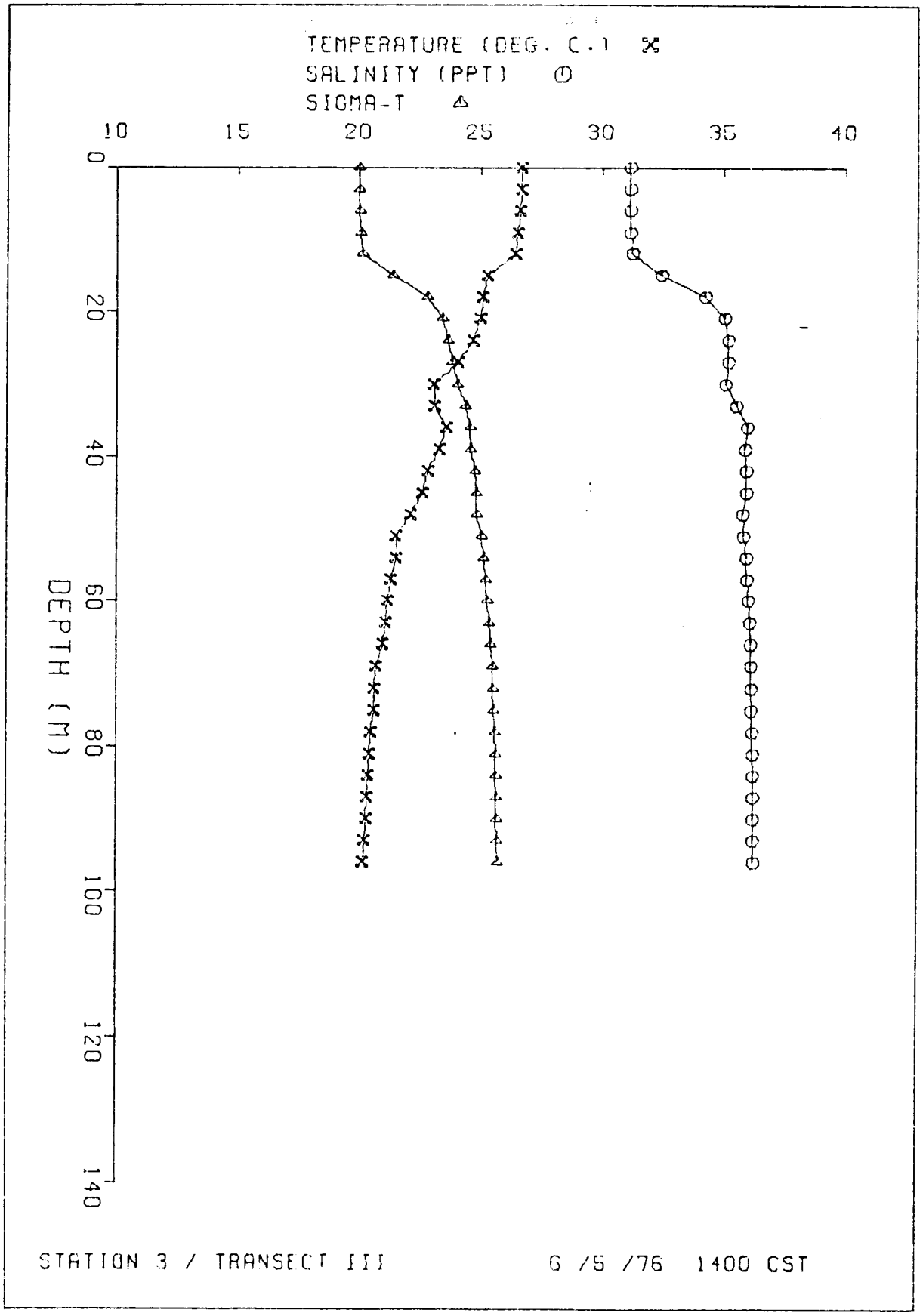
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	26,48	31,20	20,05	769,9	0,00	0,00	1534,1	0,0
3,0	26,48	31,20	20,05	770,3	,23	,00	1534,1	146,3
6,0	26,77	32,70	21,09	671,2	,45	,01	1536,5	161,6
9,0	26,72	32,98	21,31	649,3	,64	,03	1536,7	149,2
12,0	26,48	34,01	22,16	568,3	,83	,05	1537,4	207,7
15,0	26,07	35,49	23,40	449,8	,98	,07	1538,1	180,5
18,0	25,62	35,75	23,74	417,6	1,11	,09	1537,4	95,5
21,0	25,57	35,87	23,85	407,8	1,23	,12	1537,5	67,0
24,0	25,45	35,97	23,96	397,1	1,35	,14	1537,3	71,6
27,0	25,25	36,07	24,09	384,3	1,47	,17	1537,0	64,6
30,0	25,15	36,11	24,16	378,0	1,59	,21	1536,9	53,9
33,0	25,03	36,16	24,24	371,2	1,70	,24	1536,7	51,0
36,0	24,88	36,17	24,29	366,2	1,81	,28	1536,4	55,2
39,0	24,59	36,18	24,38	357,3	1,92	,32	1535,8	59,6
42,0	24,53	36,26	24,46	350,1	2,02	,37	1535,8	38,1
45,0	24,38	36,19	24,45	350,8	2,13	,41	1535,4	35,2
48,0	24,13	36,18	24,52	344,6	2,23	,46	1534,9	58,0
51,0	23,73	36,15	24,62	335,5	2,34	,52	1533,9	57,7
54,0	23,48	36,14	24,68	329,4	2,44	,57	1533,4	59,0
57,0	23,39	36,24	24,79	319,7	2,53	,63	1533,3	61,3
60,0	23,04	36,21	24,86	312,2	2,63	,68	1532,4	62,9
63,0	22,62	36,20	24,98	301,6	2,72	,74	1531,4	63,9
66,0	22,32	36,20	25,06	293,6	2,81	,80	1530,7	53,3
69,0	22,16	36,21	25,11	288,7	2,90	,86	1530,4	65,2
72,0	21,69	36,24	25,27	274,2	2,98	,92	1529,3	67,9
75,0	21,49	36,26	25,34	267,6	3,06	,98	1528,8	47,7
78,0	21,30	36,24	25,38	263,9	3,14	1,04	1528,3	44,5
81,0	21,15	36,26	25,43	258,6	3,22	1,11	1528,0	44,7
84,0	21,00	36,26	25,48	254,9	3,30	1,17	1527,7	49,2
87,0	20,80	36,29	25,55	247,7	3,38	1,24	1527,2	52,1
90,0	20,65	36,31	25,61	242,5	3,45	1,31	1526,9	47,8
93,0	20,47	36,32	25,66	237,3	3,52	1,37	1526,5	47,9

HYDROGRAPHIC CAST DATA STATION 3 / TRANSECT III
6/ 5/76 1400 CST SAMPLE CODE LKE

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	26,63	31,12	19,95	780,2	0,00	0,00	1534,3	0,0
3,0	26,63	31,12	19,95	780,6	,23	,00	1534,4	17,9
6,0	26,58	31,12	19,96	779,2	,47	,01	1534,3	35,6
9,0	26,48	31,14	20,01	774,9	,70	,03	1534,2	51,7
12,0	26,38	31,21	20,09	767,0	,93	,06	1534,1	166,7
15,0	25,24	32,42	21,35	646,3	1,14	,09	1532,8	235,2
18,0	25,05	34,22	22,76	510,9	1,32	,11	1534,4	205,4
21,0	24,97	35,02	23,39	451,1	1,46	,14	1535,1	132,0
24,0	24,65	35,18	23,61	430,6	1,59	,17	1534,6	90,8
27,0	24,04	35,18	23,79	413,2	1,72	,21	1533,2	89,6
30,0	23,05	35,07	24,00	393,6	1,84	,24	1530,7	105,6
33,0	23,07	35,52	24,33	361,8	1,95	,28	1531,3	104,7
36,0	23,56	35,97	24,53	343,2	2,06	,32	1533,1	65,4
39,0	23,27	35,87	24,54	342,3	2,16	,36	1532,3	62,0
42,0	22,79	35,92	24,72	325,7	2,26	,40	1531,2	70,0
45,0	22,57	35,92	24,78	319,9	2,36	,44	1530,7	42,8
48,0	22,08	35,77	24,80	317,4	2,45	,49	1529,3	68,9
51,0	21,49	35,82	25,01	298,1	2,55	,53	1527,9	75,9
54,0	21,49	35,92	25,08	291,0	2,64	,58	1528,1	58,6
57,0	21,27	35,96	25,17	282,5	2,72	,63	1527,6	58,1
60,0	21,14	36,01	25,25	275,7	2,81	,68	1527,3	56,2
63,0	21,07	36,09	25,33	268,2	2,89	,73	1527,3	53,3
66,0	20,94	36,12	25,39	262,8	2,97	,78	1527,1	53,3
69,0	20,67	36,13	25,47	255,3	3,05	,84	1526,4	47,4
72,0	20,59	36,14	25,49	252,6	3,12	,89	1526,3	29,4
75,0	20,58	36,15	25,51	251,5	3,20	,95	1526,3	36,0
78,0	20,45	36,17	25,56	246,8	3,27	1,01	1526,0	42,1
81,0	20,40	36,20	25,59	243,5	3,35	1,07	1525,9	34,3
84,0	20,35	36,21	25,61	241,6	3,42	1,13	1525,9	26,5
87,0	20,30	36,21	25,63	240,5	3,49	1,19	1525,8	20,9
90,0	20,27	36,21	25,64	239,8	3,56	1,26	1525,8	23,3
93,0	20,20	36,21	25,65	238,2	3,64	1,33	1525,6	30,3
96,0	20,13	36,22	25,68	235,8	3,71	1,39	1525,5	32,8

HYDROGRAPHIC CAST DATA STATION 5 / TRANSECT III
6/ 3/76 2200 CST SAMPLE CODE LLZ

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	26,43	31,06	19,96	778,7	0,00	0,00	1533,8	7,2
3,0	26,45	31,07	19,96	778,9	,23	,00	1533,9	24,9
6,0	26,43	31,10	19,99	776,3	,47	,01	1534,0	60,2
9,0	26,08	31,15	20,14	762,3	,70	,03	1533,2	81,5
12,0	25,78	31,26	20,31	745,7	,92	,06	1532,7	92,0
15,0	25,43	31,43	20,55	723,2	1,14	,09	1532,1	115,2
18,0	24,87	31,75	20,95	684,4	1,35	,12	1531,2	222,3
21,0	23,22	33,73	22,94	494,6	1,53	,16	1529,4	249,9
24,0	22,26	34,75	23,98	395,3	1,66	,19	1528,2	153,9
27,0	21,88	34,75	24,08	385,2	1,78	,22	1527,3	48,2
30,0	21,86	34,75	24,09	384,7	1,89	,25	1527,3	20,1
33,0	21,81	34,75	24,10	383,5	2,01	,29	1527,2	24,0


TEMPERATURE (DEG. C.) ✕
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
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35
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0
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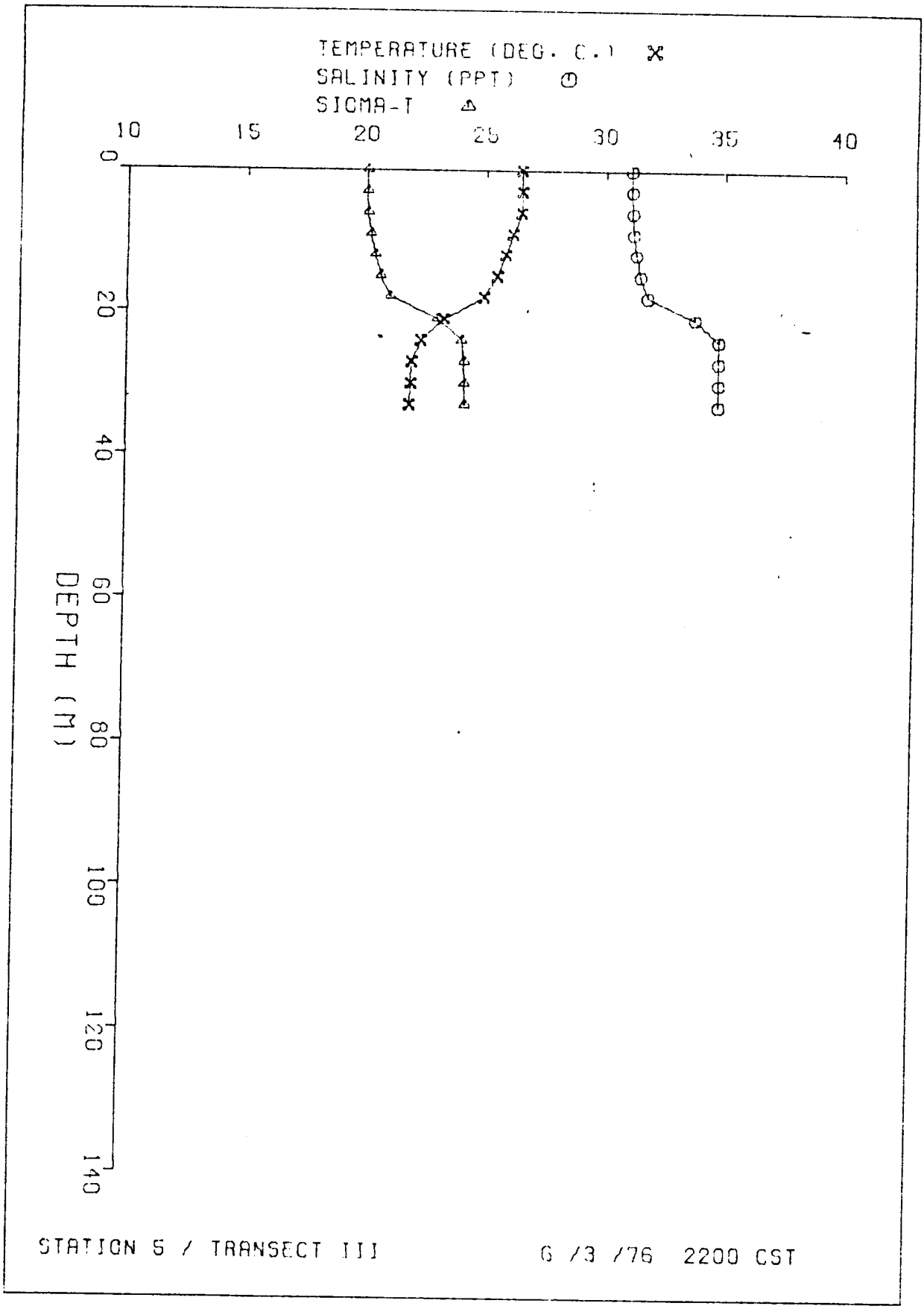
40
60
80
100
120
140
DEPTH (M)
STATION 3 / TRANSECT III
6 /5 /76 1400 CST


TEMPERATURE (DEG. C.) ✕
SALINITY (PPT) ⊙
SIGMA-T △
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35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 5 / TRANSECT III
6 /3 /76 2200 CST

HYDROGRAPHIC CAST DATA STATION 1 / TRANSECT III
6/ 3/76 1715 CST SAMPLE CODE LHA

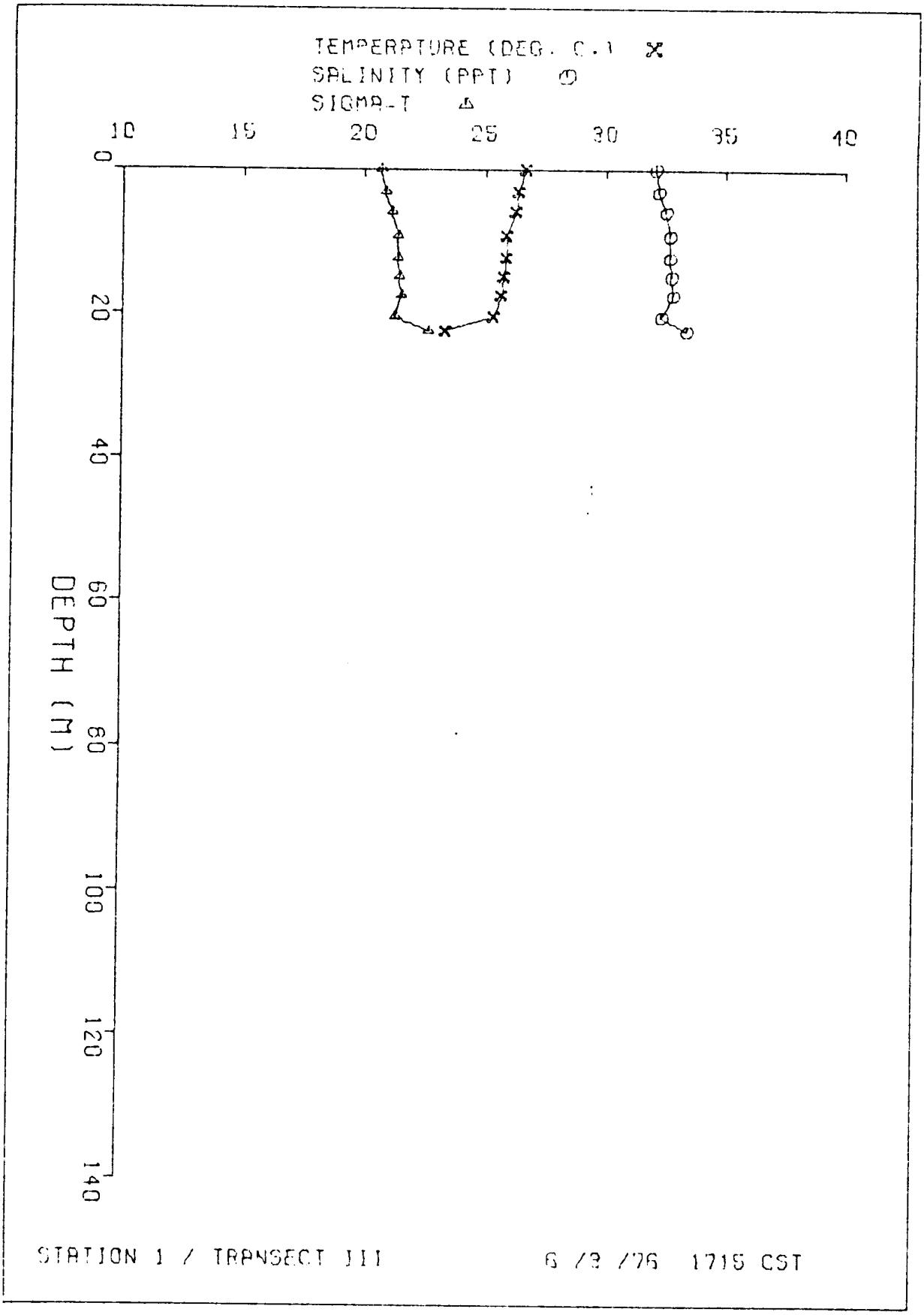
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	26.63	32.07	20.66	711.7	0.00	0.00	1535.4	85.3
3.1	26.33	32.19	20.84	694.7	.22	.00	1534.9	98.7
5.9	26.23	32.51	21.11	668.4	.41	.01	1535.0	103.5
9.2	25.83	32.67	21.36	645.0	.62	.03	1534.3	67.8
12.3	25.83	32.67	21.36	645.2	.82	.05	1534.4	37.4
15.0	25.72	32.71	21.42	639.4	1.00	.07	1534.2	60.8
17.5	25.62	32.79	21.51	630.6	1.16	.10	1534.1	0.0
20.5	25.32	32.29	21.23	658.1	1.35	.14	1532.9	195.0
22.5	23.31	33.38	22.64	522.6	1.47	.16	1529.3	296.2

HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT III
6/ 4/76 745 CST SAMPLE CODE LIQ

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	26,28	31,81	20,57	719,9	0,00	0,00	1534,3	18,0
3,0	26,28	31,82	20,58	719,5	,22	,00	1534,3	18,0
6,0	26,28	31,83	20,59	718,9	,43	,01	1534,4	0,0
9,0	26,26	31,81	20,58	719,9	,65	,03	1534,4	11,4
12,0	26,26	31,83	20,59	718,5	,86	,05	1534,5	61,7
15,0	26,10	31,99	20,76	702,4	1,08	,08	1534,3	200,1
18,0	24,96	33,88	22,53	533,3	1,26	,11	1533,8	247,5
21,0	25,04	35,50	23,73	418,9	1,40	,14	1535,8	168,9
24,0	24,96	35,71	23,91	401,6	1,52	,17	1535,9	99,1
27,0	24,25	35,81	24,21	373,7	1,64	,20	1530,4	105,5
30,0	23,33	35,78	24,45	350,3	1,75	,23	1532,2	78,9
33,0	22,11	35,39	24,51	345,1	1,85	,26	1528,7	80,8
36,0	21,60	35,55	24,77	320,3	1,95	,30	1527,6	102,7
39,0	21,33	35,78	25,02	296,5	2,05	,34	1527,2	83,3
42,0	21,25	35,86	25,11	288,5	2,13	,37	1527,2	56,6
45,0	21,20	35,94	25,18	282,0	2,22	,41	1527,2	62,1
48,0	21,15	36,07	25,29	270,9	2,30	,45	1527,2	66,8
51,0	20,84	36,10	25,39	261,6	2,38	,49	1526,5	47,1
54,0	20,81	36,10	25,40	260,9	2,46	,53	1526,5	16,9
57,0	20,79	36,10	25,41	260,5	2,54	,58	1526,5	10,7
60,0	20,79	36,10	25,41	260,6	2,62	,62	1526,5	0,0
62,0	20,79	36,10	25,41	260,7	2,67	,66	1526,6	0,0

HYDROGRAPHIC CAST DATA STATION 4 / TRANSECT III
6/ 3/76 1945 CST SAMPLE CODE LLX

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	26.11	33.46	21.96	596.0	0.00	0.00	1535.7	0.0
3.0	25.44	33.47	21.77	605.7	.18	.00	1536.5	0.0
5.0	25.44	33.48	21.78	604.7	.30	.01	1536.6	42.2
7.5	25.28	33.49	21.84	599.3	.45	.02	1536.2	54.9
9.5	25.11	33.49	21.89	594.5	.57	.03	1535.9	87.1
12.0	25.29	33.48	22.13	571.4	.72	.04	1534.0	83.1
15.0	25.12	33.47	22.17	567.3	.89	.07	1533.6	42.7


TEMPERATURE (DEG. C.) ✕
SALINITY (PPT) ⊙
SIGMA-T △
10
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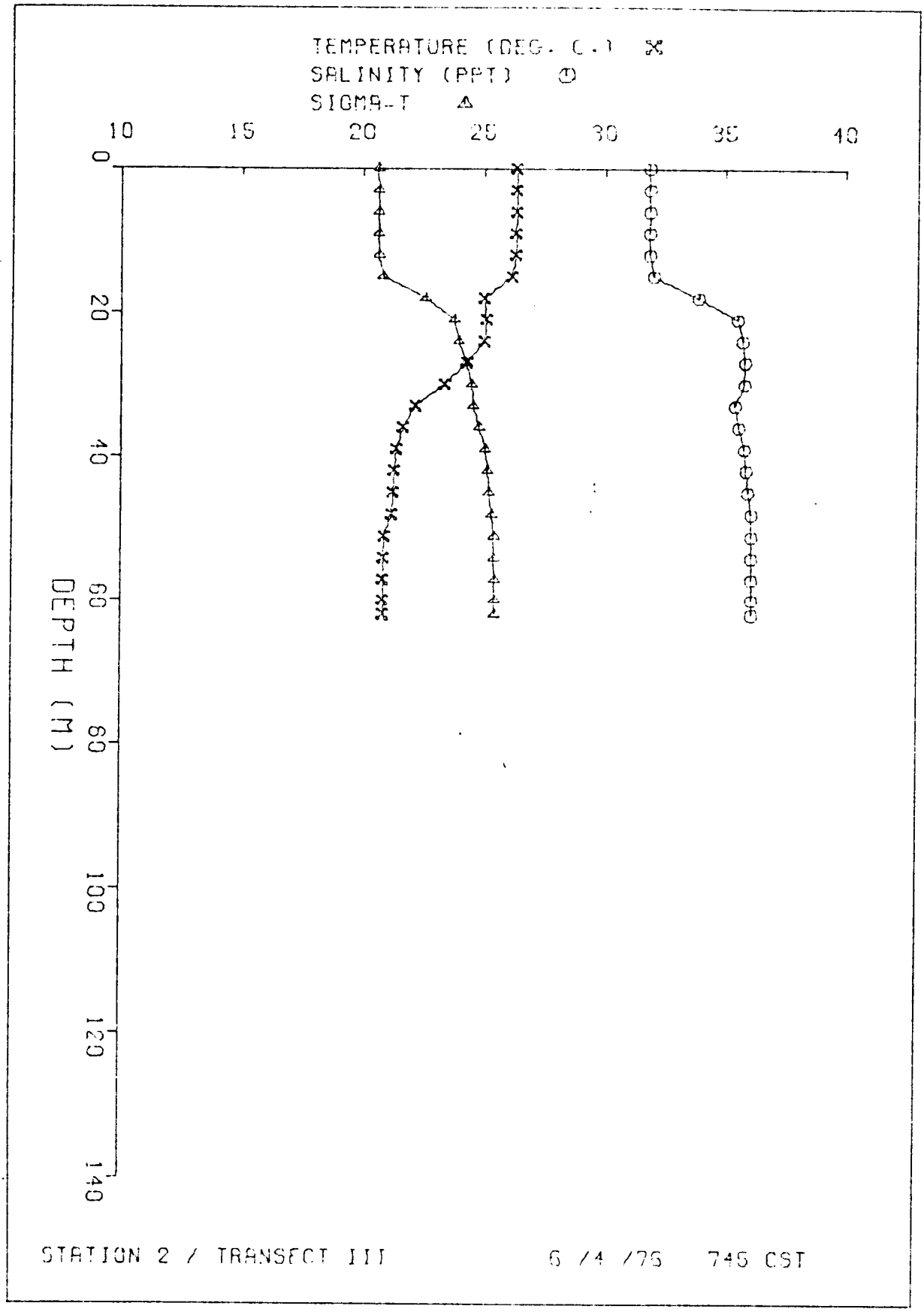
140
DEPTH (M)
STATION 1 / TRANSECT III
6 /3 /76 1715 CST


TEMPERATURE (DEG. C.) X
SALINITY (PPT) O
SIGMA-T Δ
10
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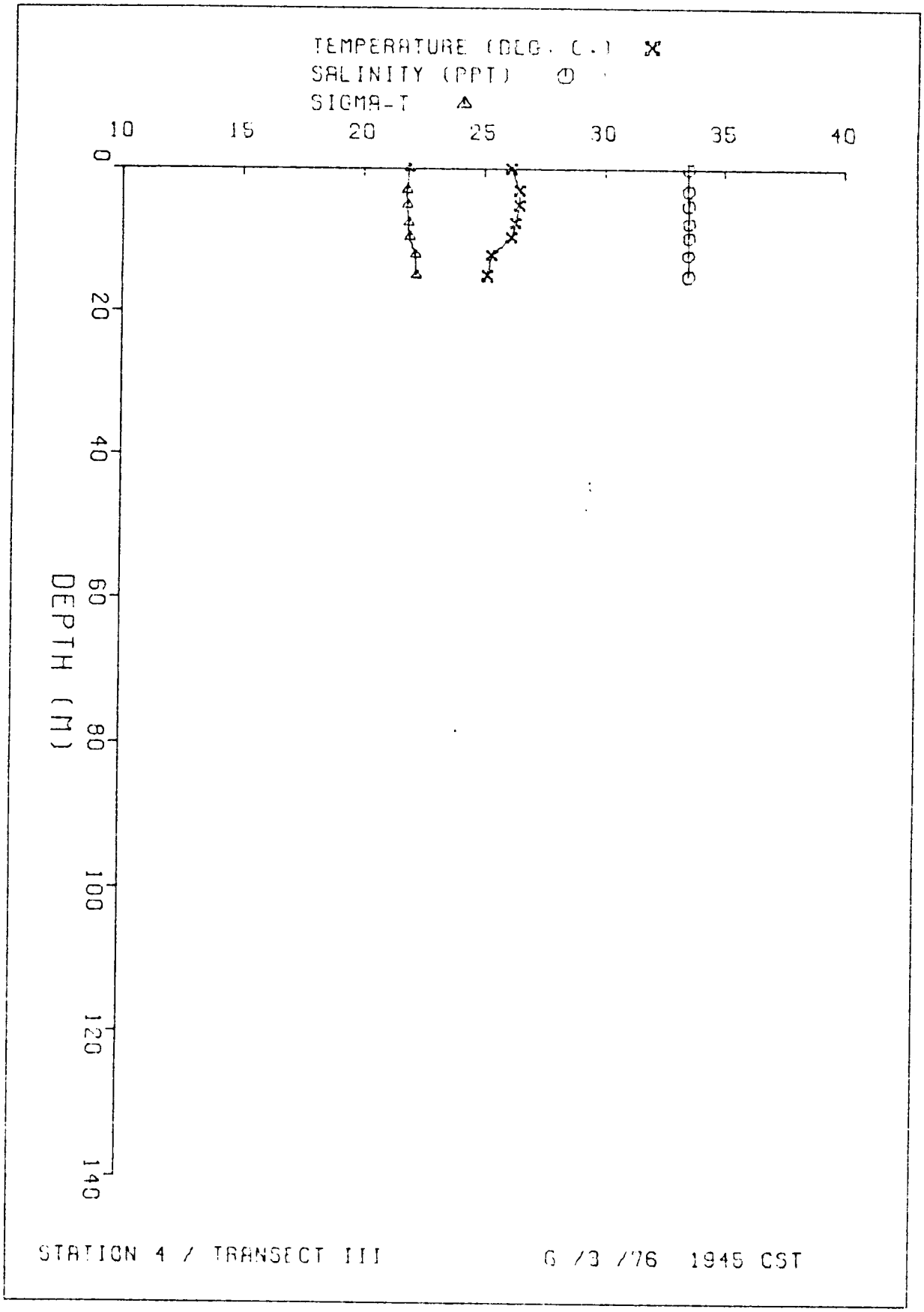
140
DEPTH (M)
STATION 2 / TRANSECT III
6 /4 /75 745 CST


TEMPERATURE (DEG. C.)
SALINITY (PPT)
SIGMA-T
10
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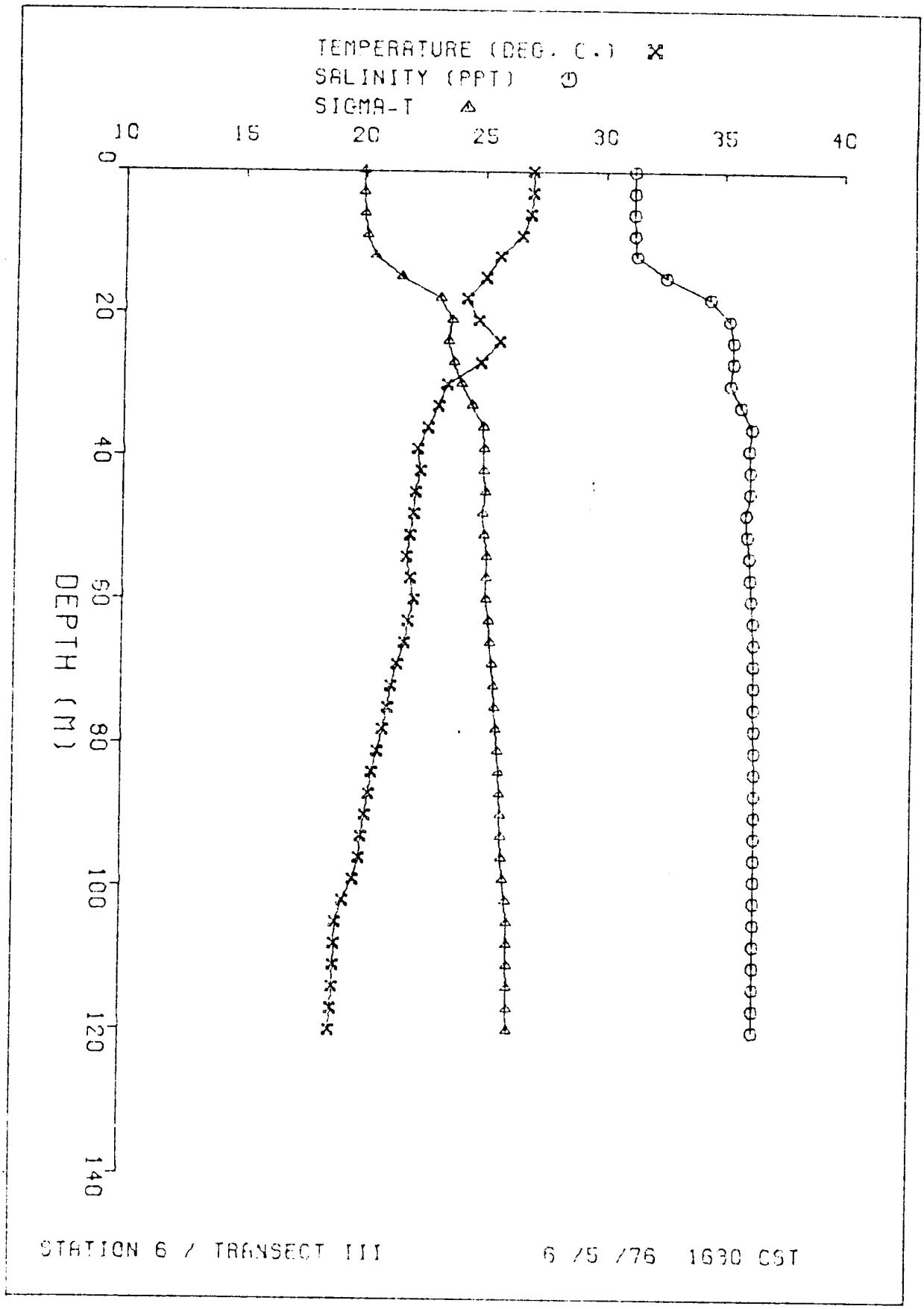
80
100
120
140
DEPTH (M)
STATION 4 / TRANSECT III
6 /3 /76 1945 CST

HYDROGRAPHIC CAST DATA STATION 6 / TRANSECT III
6/ 5/76 1630 CST SAMPLE CODE LMC

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	26.95	31.18	19.89	785.7	0.00	0.00	1535.1	0.0
3.0	26.95	31.18	19.89	786.0	.24	.00	1535.2	25.4
6.0	26.85	31.18	19.92	783.2	.47	.01	1535.0	56.6
9.0	26.50	31.20	20.04	771.4	.70	.03	1534.3	96.7
12.0	25.61	31.27	20.37	739.9	.93	.06	1532.3	172.9
15.0	25.02	32.52	21.49	633.0	1.14	.08	1532.4	238.4
18.0	24.23	34.37	23.12	476.9	1.30	.11	1532.6	208.5
21.0	24.72	35.19	23.59	431.9	1.44	.14	1534.7	82.0
24.0	25.61	35.36	23.45	446.1	1.57	.17	1537.1	44.1
27.0	24.82	35.36	23.69	423.1	1.70	.20	1535.3	108.3
30.0	23.44	35.24	24.01	392.1	1.82	.24	1531.8	126.6
33.0	23.09	35.71	24.46	349.2	1.94	.28	1531.5	138.5
36.0	22.65	36.17	24.94	303.7	2.03	.31	1531.0	103.4
39.0	22.23	36.07	24.98	300.0	2.12	.34	1529.9	28.7
42.0	22.37	36.12	24.98	300.1	2.21	.38	1530.4	35.6
45.0	22.15	36.12	25.05	294.4	2.30	.42	1529.9	0.0
48.0	22.10	35.96	24.94	304.3	2.39	.46	1529.6	0.0
51.0	21.95	36.01	25.02	296.7	2.48	.51	1529.3	64.3
54.0	21.81	36.12	25.14	285.4	2.57	.56	1529.1	46.2
57.0	21.97	36.16	25.13	287.1	2.66	.61	1529.6	0.0
60.0	22.13	36.21	25.12	287.7	2.74	.66	1530.2	49.9
63.0	21.91	36.29	25.25	275.8	2.83	.71	1529.7	62.8
66.0	21.76	36.32	25.31	269.7	2.91	.77	1529.4	56.6
69.0	21.46	36.33	25.40	261.2	2.99	.82	1528.7	58.6
72.0	21.21	36.34	25.48	254.1	3.07	.88	1528.1	49.6
75.0	21.06	36.35	25.52	250.1	3.14	.93	1527.8	48.2
78.0	20.89	36.37	25.59	243.6	3.22	.99	1527.4	56.0
81.0	20.67	36.41	25.67	235.8	3.29	1.05	1526.9	55.4
84.0	20.45	36.42	25.74	229.6	3.36	1.11	1526.4	45.6
87.0	20.32	36.42	25.78	226.4	3.43	1.17	1526.1	39.1
90.0	20.17	36.42	25.82	222.7	3.50	1.23	1525.7	40.4
93.0	20.03	36.42	25.85	219.1	3.56	1.29	1525.4	36.8
96.0	19.96	36.43	25.88	216.7	3.63	1.36	1525.3	44.0
99.0	19.70	36.43	25.95	210.3	3.69	1.42	1524.6	60.3
102.0	19.28	36.43	26.06	200.1	3.76	1.48	1523.5	61.7
105.0	18.99	36.43	26.13	192.9	3.81	1.55	1522.7	41.0
108.0	18.97	36.43	26.14	192.5	3.87	1.61	1522.7	16.2
111.0	18.94	36.43	26.15	191.9	3.93	1.68	1522.7	20.4
114.0	18.89	36.43	26.16	190.8	3.99	1.74	1522.6	22.8
117.0	18.84	36.43	26.17	189.7	4.05	1.81	1522.5	25.0
120.0	18.77	36.43	26.19	188.1	4.10	1.88	1522.4	27.0


TEMPERATURE (DEG. C.)
SALINITY (PPT)
SIGMA-T
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 6 / TRANSECT III
6 /5 /76 1630 CST

HYDROGRAPHIC CAST DATA STATION 1 / TRANSECT IV
5/30/76 757 CST SAMPLE CODE LMF

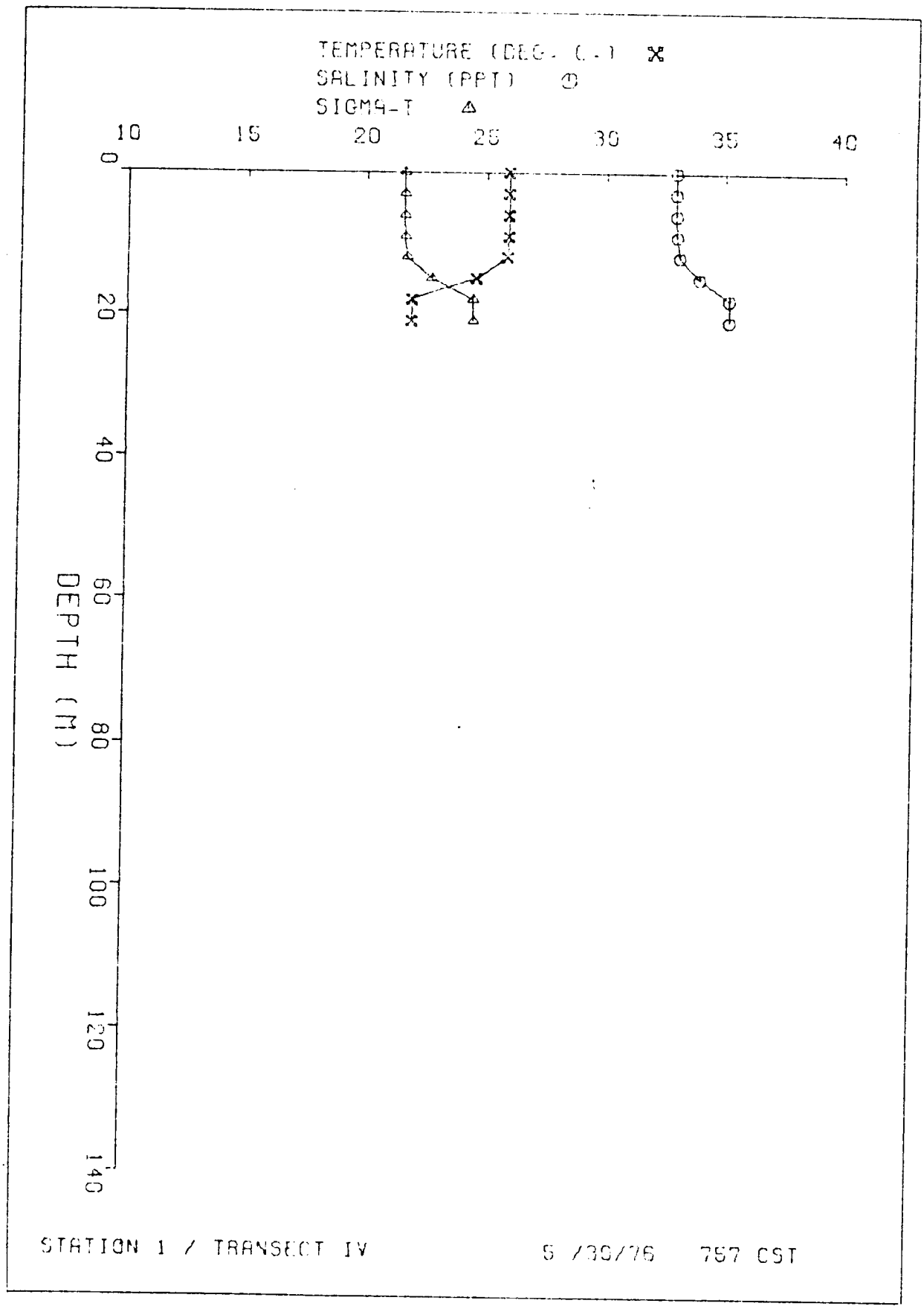
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	25,89	32,92	21,52	628,6	0,00	0,00	1534,6	0,0
3,0	25,89	32,92	21,52	629,0	,19	,00	1534,6	12,5
6,0	25,89	32,93	21,53	628,4	,38	,01	1534,7	24,9
9,0	25,89	32,96	21,55	626,3	,56	,03	1534,8	48,4
12,0	25,84	33,06	21,65	617,7	,75	,05	1534,8	152,5
15,0	24,54	33,91	22,68	518,8	,92	,07	1532,0	238,5
18,0	21,86	35,16	24,40	354,7	1,06	,09	1527,6	188,6
21,0	21,84	35,16	24,41	354,3	1,16	,11	1527,5	15,2

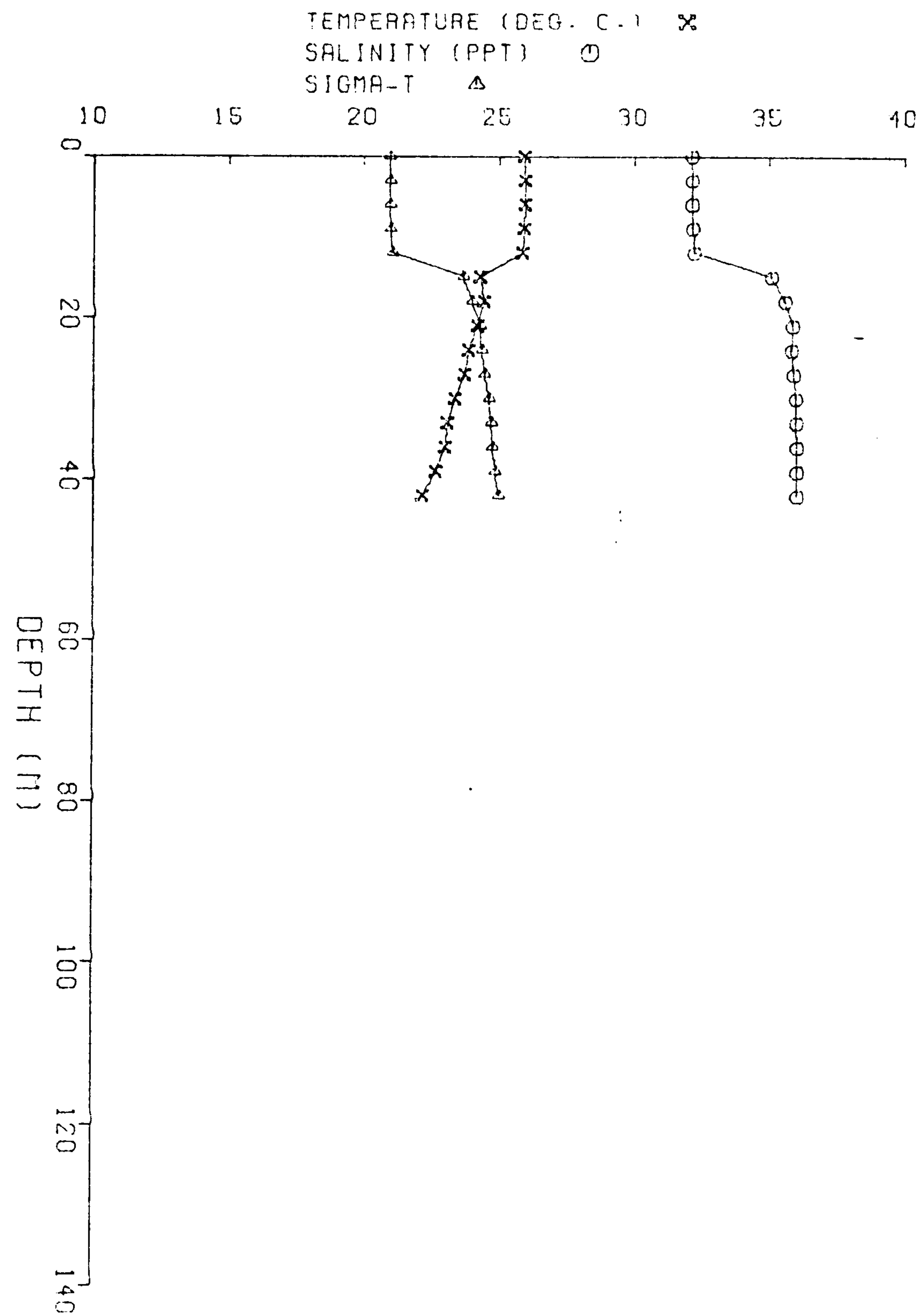
HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT IV
5/30/76 1730 CST SAMPLE CODE LNU

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	25,90	32,12	20,92	686,6	0,00	0,00	1533,7	6,7
3,0	25,92	32,13	20,92	686,9	,21	,00	1533,9	13,3
6,0	25,92	32,14	20,93	686,3	,41	,01	1533,9	24,4
9,0	25,90	32,16	20,95	684,4	,62	,03	1533,9	41,9
12,0	25,84	32,22	21,01	678,4	,82	,05	1533,9	236,6
15,0	24,27	35,09	23,66	425,7	,99	,07	1533,4	247,9
18,0	24,42	35,60	23,99	393,8	1,11	,09	1534,4	114,0
21,0	24,16	35,89	24,29	365,8	1,22	,12	1534,2	84,9
24,0	23,85	35,84	24,34	360,7	1,33	,14	1533,4	57,5
27,0	23,70	35,92	24,45	350,7	1,44	,17	1533,2	74,9
30,0	23,34	36,00	24,61	335,0	1,54	,20	1532,4	72,7
33,0	23,08	36,02	24,70	326,6	1,64	,23	1531,9	52,8
36,0	22,98	36,03	24,75	322,4	1,74	,27	1531,7	54,3
39,0	22,64	36,03	24,85	313,2	1,83	,30	1530,9	69,8
42,0	22,15	36,03	24,98	300,1	1,93	,34	1529,7	75,4

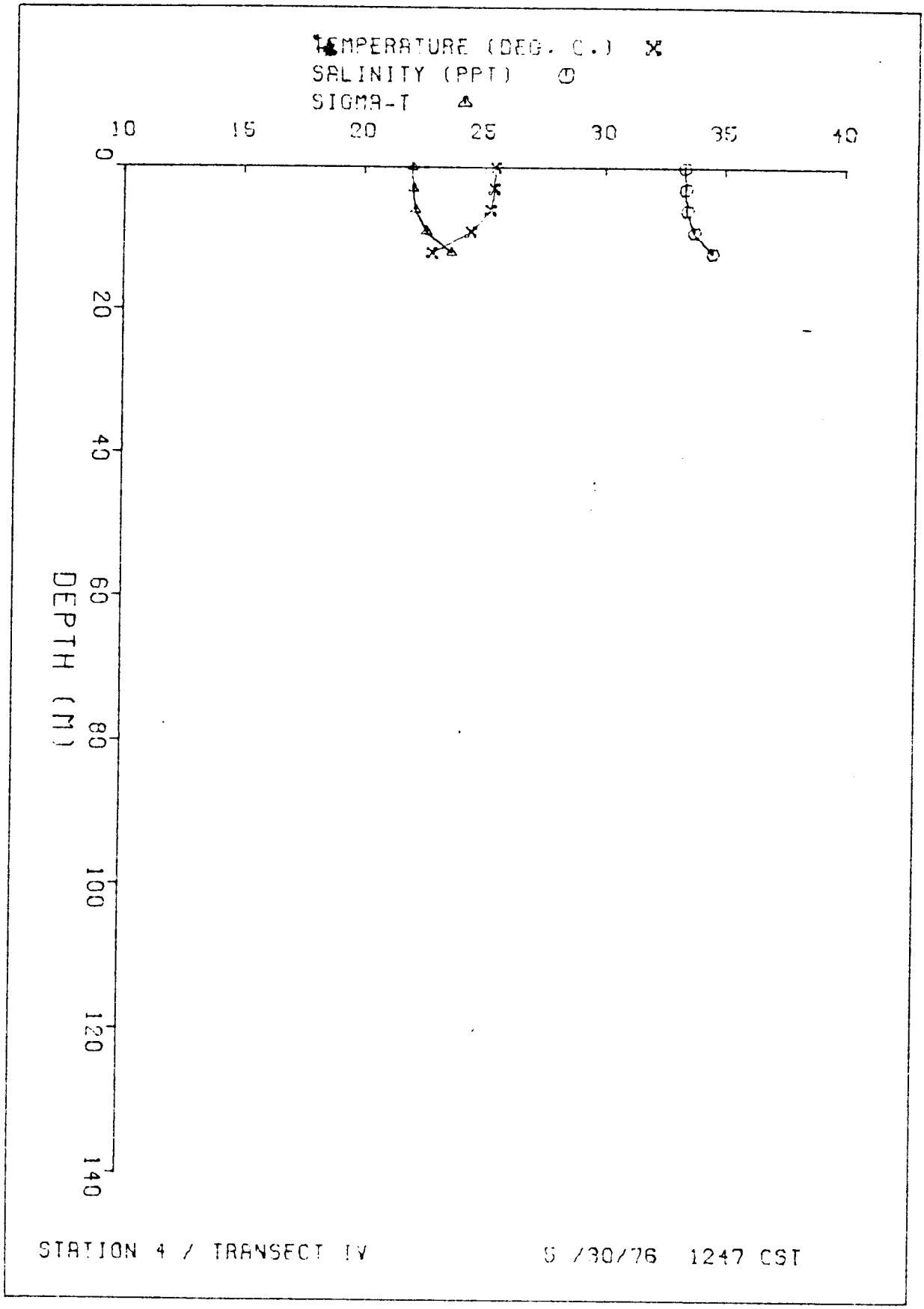
HYDROGRAPHIC CAST DATA STATION 4 / TRANSECT IV
5/30/76 1247 CST SAMPLE CODE LRA

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	25,40	33,31	21,97	586,1	0,00	0,00	1533,9	35,4
3,0	25,35	33,33	22,00	583,5	,18	,00	1533,8	48,4
6,0	25,20	33,38	22,08	575,7	,35	,01	1533,6	106,6
9,0	24,40	33,68	22,55	531,2	,52	,02	1532,1	177,3
12,0	22,80	34,46	23,60	434,4	,66	,04	1529,0	298,7


TEMPERATURE (DEG. C.) X
SALINITY (PPT) O
SIGMA-T Δ
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 1 / TRANSECT IV
5 /30/76 757 CST



STATION 2 / TRANSECT IV 5/30/76 1730 CST


TEMPERATURE (DEG. C.) X
SALINITY (PPT) ⊙
SIGMA-T △
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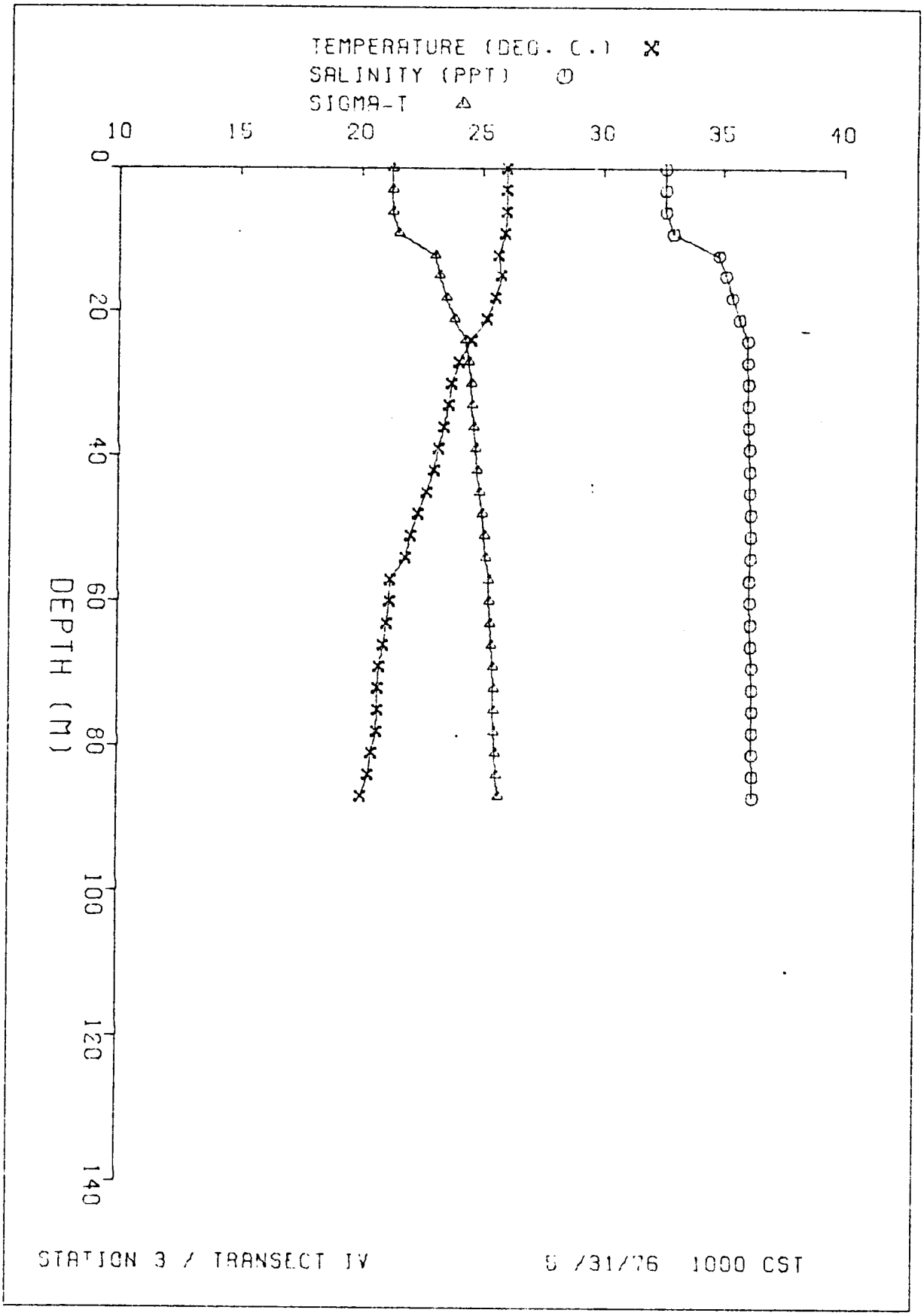
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 4 / TRANSECT IV
5 /30/76 1247 CST

HYDROGRAPHIC CAST DATA STATION 3 / TRANSECT IV
5/31/76 1000 CST SAMPLE CODE LPI

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	25,95	32,55	21,23	656,7	0,00	0,00	1534,3	0,0
3,0	25,95	32,55	21,23	657,1	,20	,00	1534,4	12,5
6,0	25,95	32,56	21,24	656,5	,39	,01	1534,4	74,0
9,0	25,90	32,88	21,50	632,0	,59	,03	1534,7	191,8
12,0	25,62	34,79	23,02	486,5	,76	,04	1536,2	187,0
15,0	25,75	35,07	23,19	470,3	,90	,06	1536,9	96,7
18,0	25,50	35,34	23,47	443,5	1,04	,09	1536,7	112,8
21,0	25,15	35,64	23,80	411,7	1,17	,11	1536,2	128,3
24,0	24,50	35,99	24,27	367,7	1,28	,14	1535,1	112,4
27,0	24,00	35,99	24,42	353,5	1,39	,17	1534,0	72,3
30,0	23,70	36,01	24,52	343,7	1,50	,20	1533,3	52,5
33,0	23,60	36,01	24,55	341,0	1,60	,23	1533,1	47,8
36,0	23,40	36,04	24,63	333,3	1,70	,27	1532,7	60,3
39,0	23,18	36,08	24,73	324,4	1,80	,31	1532,3	56,4
42,0	22,99	36,09	24,79	318,9	1,90	,35	1531,9	56,3
45,0	22,69	36,10	24,88	310,0	1,99	,39	1531,2	66,9
48,0	22,34	36,13	25,00	298,4	2,08	,43	1530,4	67,8
51,0	22,04	36,15	25,10	289,0	2,17	,48	1529,7	55,4
54,0	21,84	36,14	25,15	284,4	2,26	,52	1529,2	61,8
57,0	21,21	36,09	25,29	271,5	2,34	,57	1527,6	57,0
60,0	21,19	36,11	25,31	269,6	2,42	,62	1527,6	37,7
63,0	21,07	36,13	25,36	265,2	2,50	,67	1527,4	45,2
66,0	20,94	36,15	25,41	260,4	2,58	,72	1527,1	51,3
69,0	20,77	36,19	25,49	253,2	2,66	,77	1526,7	46,7
72,0	20,72	36,21	25,52	250,6	2,73	,83	1526,7	27,4
75,0	20,72	36,22	25,52	250,0	2,81	,89	1526,7	18,0
78,0	20,69	36,22	25,53	249,3	2,88	,95	1526,7	39,4
81,0	20,47	36,23	25,60	243,0	2,96	1,01	1526,2	47,5
84,0	20,34	36,24	25,64	239,1	3,03	1,07	1525,9	51,3
87,0	20,05	36,26	25,73	231,1	3,10	1,13	1525,2	59,2

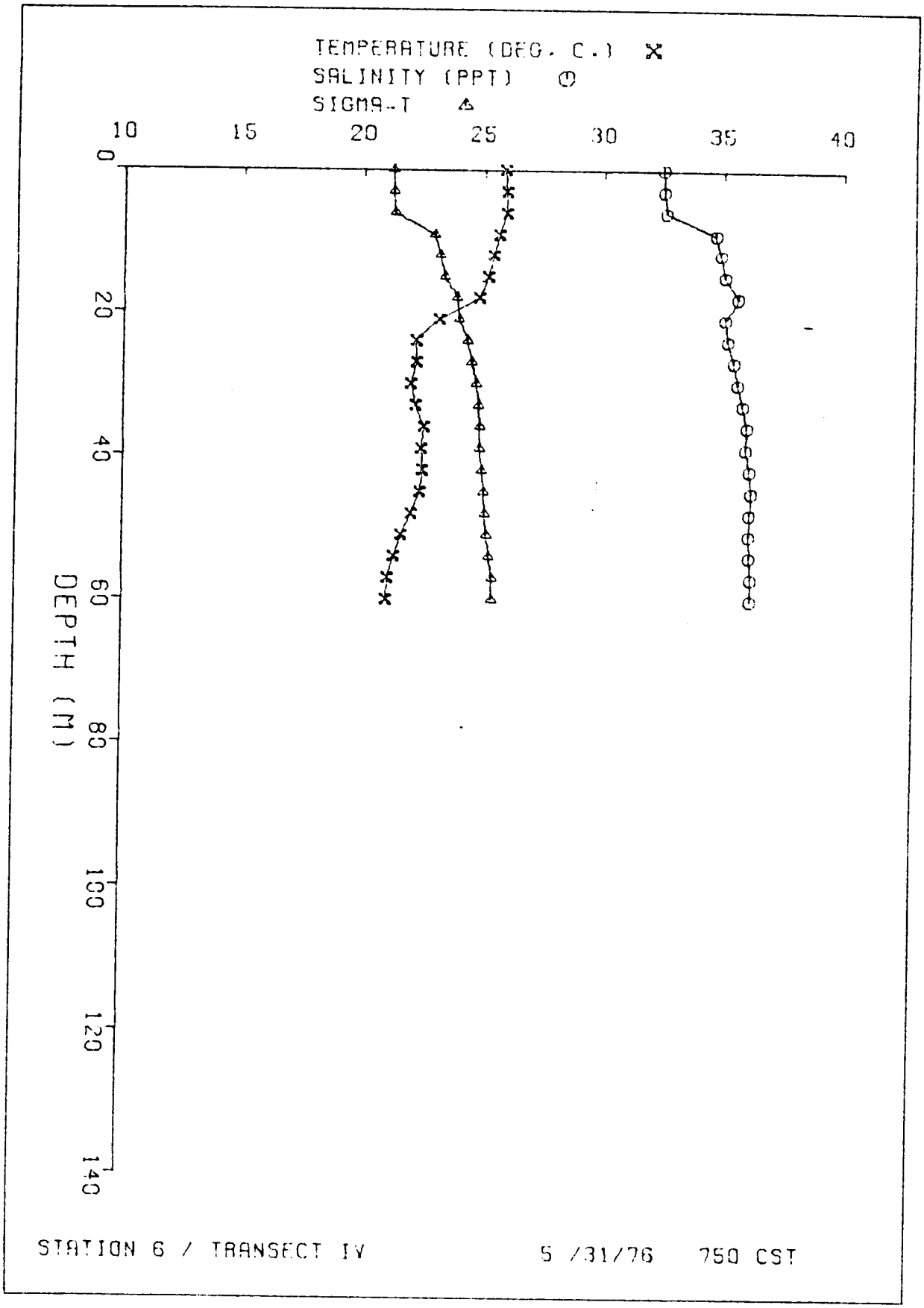

TEMPERATURE (DEG. C.) X
SALINITY (PPT) O
SIGMA-T Δ
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 3 / TRANSECT IV
5 /31/76 1000 CST

HYDROGRAPHIC CAST DATA STATION 6 / TRANSECT IV
5/31/76 750 CST SAMPLE CODE LRE

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	25.85	32.45	21.18	661.2	0.00	0.00	1534.0	20.9
3.0	25.91	32.49	21.19	660.6	.20	.00	1534.2	39.7
6.0	25.91	32.58	21.26	654.4	.40	.01	1534.4	189.2
9.0	25.61	34.66	22.93	495.1	.57	.02	1536.0	198.0
12.0	25.38	34.88	23.16	473.0	.71	.04	1535.8	93.8
15.0	25.17	35.05	23.35	454.6	.85	.06	1535.5	121.8
18.0	24.82	35.61	23.88	404.6	.98	.08	1535.4	112.7
21.0	23.15	35.97	23.97	396.1	1.10	.11	1530.8	95.8
24.0	22.19	35.18	24.32	362.4	1.22	.13	1528.5	106.3
27.0	22.21	35.44	24.52	344.1	1.32	.16	1528.9	89.5
30.0	21.99	35.62	24.71	325.6	1.42	.19	1528.6	78.7
33.0	22.19	35.83	24.82	315.7	1.52	.22	1529.4	56.0
36.0	22.55	36.02	24.86	311.4	1.61	.25	1530.6	28.3
39.0	22.44	35.98	24.86	312.2	1.71	.29	1530.3	44.4
42.0	22.52	36.13	24.96	302.5	1.80	.33	1530.7	64.0
45.0	22.39	36.22	25.05	293.6	1.89	.37	1530.6	54.4
48.0	22.04	36.15	25.10	289.1	1.98	.41	1529.7	53.6
51.0	21.64	36.12	25.19	280.5	2.06	.45	1528.6	63.7
54.0	21.33	36.15	25.30	270.5	2.14	.50	1527.9	68.4
57.0	21.08	36.22	25.42	259.1	2.22	.54	1527.4	51.3
60.0	21.03	36.21	25.43	258.6	2.30	.59	1527.3	16.3

HYDROGRAPHIC CAST DATA STATION 5 / TRANSECT IV
5/30/76 1500 CST SAMPLE CODE LRC

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	25.80	32.85	21.50	631.0	0.00	0.00	1534.3	16.1
3.0	25.78	32.85	21.51	630.8	.19	.00	1534.3	23.2
6.0	25.76	32.87	21.53	629.0	.38	.01	1534.3	36.8
9.0	25.70	32.90	21.57	624.7	.57	.03	1534.3	55.5
12.0	25.63	33.01	21.67	614.9	.75	.05	1534.3	119.5
15.0	25.47	33.73	22.26	558.0	.93	.07	1534.8	213.5
18.0	22.82	34.83	23.88	404.3	1.07	.09	1529.6	207.5
21.0	22.01	35.15	24.35	359.7	1.19	.12	1528.0	137.9
24.0	21.58	35.59	24.84	316.6	1.29	.14	1527.4	121.8
27.0	21.53	35.92	25.07	291.4	1.38	.16	1527.7	73.3
30.0	21.55	35.92	25.06	292.0	1.47	.19	1527.8	0.0
33.0	21.55	35.92	25.06	292.2	1.56	.22	1527.9	0.0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SALINITY (PPT) O
SIGMA-T Δ
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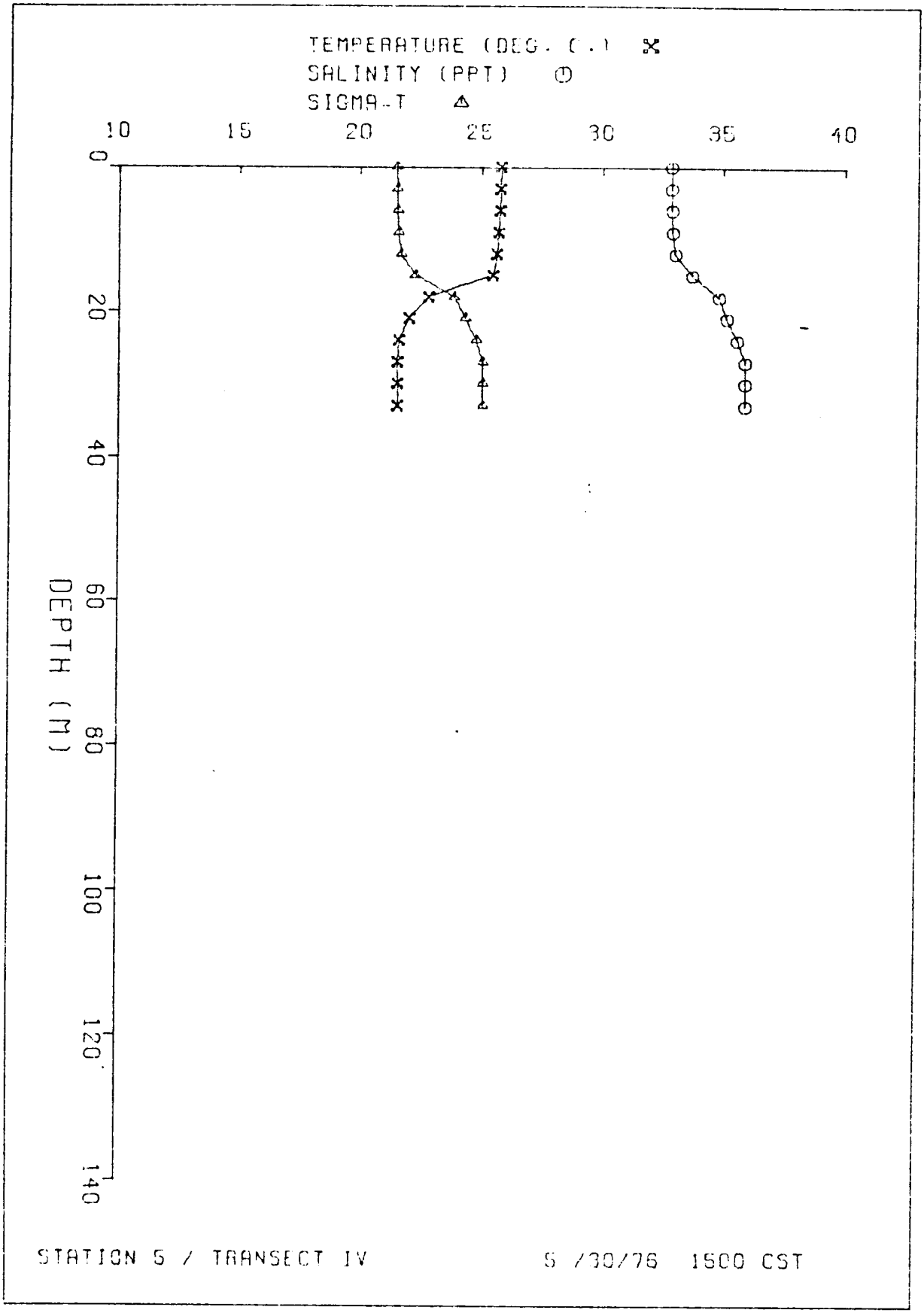
140
DEPTH (M)
STATION 6 / TRANSECT IV
5 /31/76 750 CST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SALINITY (PPT) O
SIGMA-T Δ
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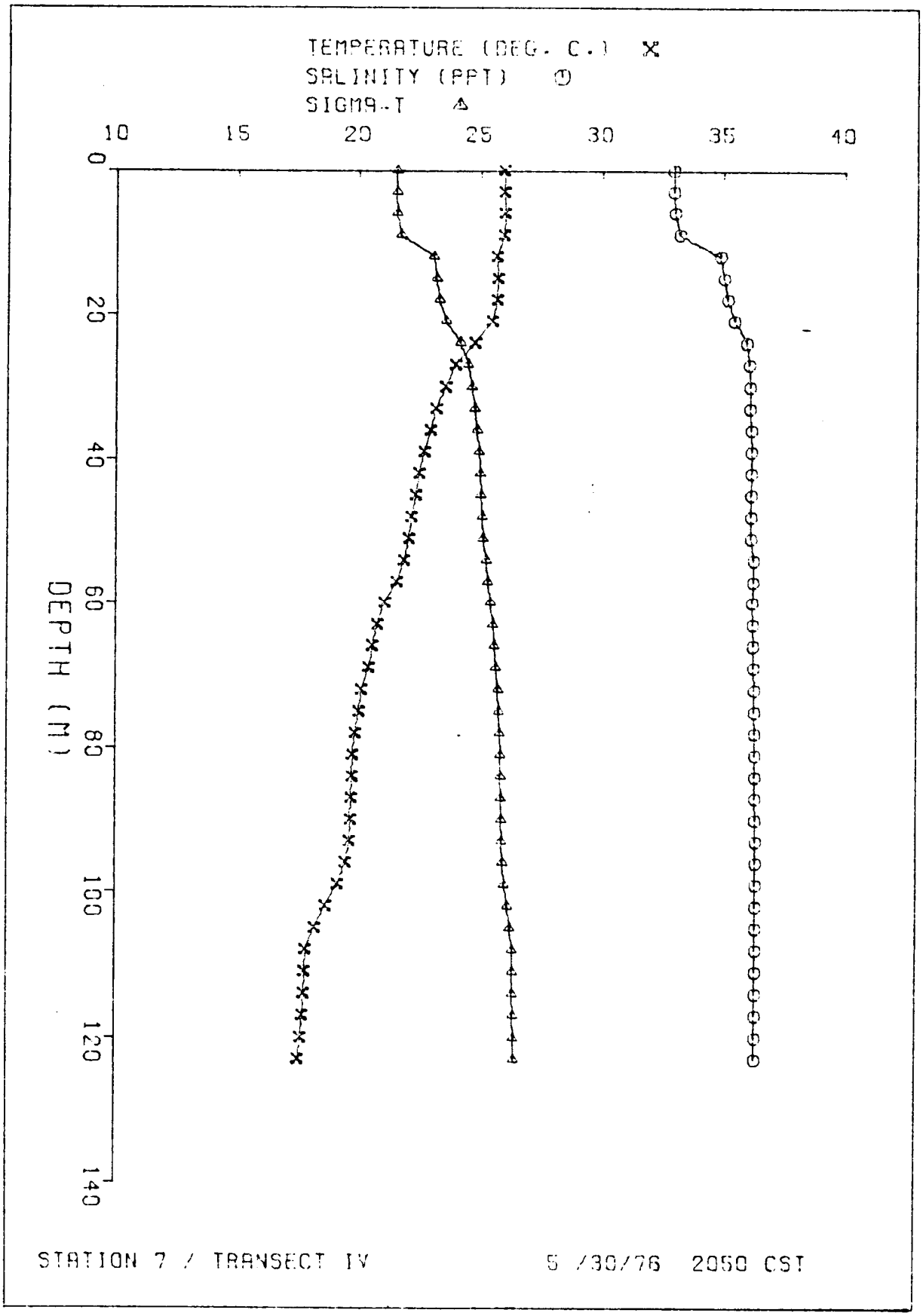
80
100
120
140
DEPTH (M)
STATION 5 / TRANSECT IV
5 /30/76 1500 CST

HYDROGRAPHIC CAST DATA STATION 7 / TRANSECT IV
5/30/76 2050 CST SAMPLE CODE LRH

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	25.95	32.95	21.53	628.1	0.00	0.00	1534.8	0.0
3.0	25.97	32.95	21.52	629.1	.19	.00	1534.9	19.3
6.0	25.99	32.99	21.55	626.9	.38	.01	1535.0	62.4
9.0	25.95	33.19	21.71	611.3	.56	.03	1535.2	-177.6
12.0	25.65	34.88	23.07	481.1	.73	.04	1536.4	173.9
15.0	25.69	35.03	23.18	471.5	.87	.06	1536.7	67.7
18.0	25.67	35.18	23.30	460.1	1.01	.09	1536.9	90.3
21.0	25.47	35.46	23.57	434.0	1.14	.11	1536.8	134.5
24.0	24.77	35.98	24.17	376.6	1.27	.14	1535.8	137.6
27.0	23.97	36.08	24.49	346.6	1.37	.17	1534.0	97.9
30.0	23.57	36.12	24.64	332.6	1.48	.20	1533.2	74.0
33.0	23.17	36.12	24.76	321.6	1.57	.23	1532.2	67.1
36.0	22.95	36.17	24.86	312.1	1.67	.26	1531.8	61.6
39.0	22.69	36.18	24.94	304.2	1.76	.30	1531.2	53.6
42.0	22.49	36.18	25.00	298.9	1.85	.34	1530.7	42.9
45.0	22.35	36.17	25.03	295.9	1.94	.38	1530.4	41.4
48.0	22.17	36.17	25.08	291.2	2.03	.42	1530.0	40.4
51.0	22.07	36.17	25.11	288.6	2.12	.46	1529.8	59.0
54.0	21.87	36.28	25.25	275.4	2.20	.51	1529.5	66.8
57.0	21.58	36.27	25.32	268.2	2.28	.56	1528.7	61.4
60.0	21.08	36.23	25.43	258.1	2.36	.60	1527.4	64.9
63.0	20.78	36.25	25.53	249.0	2.44	.65	1526.7	58.6
66.0	20.58	36.27	25.60	242.5	2.51	.70	1526.3	50.8
69.0	20.43	36.29	25.65	237.3	2.59	.75	1525.9	57.2
72.0	20.13	36.32	25.76	227.6	2.66	.80	1525.2	51.7
75.0	20.03	36.32	25.78	225.2	2.72	.85	1525.0	39.0
78.0	19.88	36.33	25.83	220.8	2.79	.90	1524.6	40.9
81.0	19.78	36.34	25.87	217.6	2.86	.96	1524.4	31.1
84.0	19.76	36.35	25.88	216.5	2.92	1.01	1524.4	20.7
87.0	19.73	36.35	25.89	215.9	2.99	1.07	1524.4	22.0
90.0	19.70	36.36	25.90	214.5	3.05	1.13	1524.4	26.4
93.0	19.66	36.37	25.92	212.9	3.12	1.19	1524.3	35.2
96.0	19.50	36.37	25.96	209.0	3.18	1.25	1523.9	50.7
99.0	19.18	36.37	26.04	201.2	3.24	1.31	1523.1	65.9
102.0	18.68	36.37	26.17	189.1	3.30	1.37	1521.7	70.5
105.0	18.23	36.37	26.29	178.4	3.36	1.43	1520.5	65.0
108.0	17.86	36.37	26.38	169.7	3.41	1.49	1519.5	45.2
111.0	17.83	36.37	26.39	169.1	3.46	1.55	1519.5	17.5
114.0	17.80	36.37	26.39	168.5	3.51	1.60	1519.4	22.5
117.0	17.73	36.37	26.41	166.9	3.56	1.66	1519.3	26.6
120.0	17.66	36.37	26.43	165.4	3.61	1.73	1519.1	29.3
123.0	17.56	36.37	26.45	163.2	3.66	1.79	1518.9	31.7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SALINITY (PPT) ⊙
SIGMA-T △
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0
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60
80
100
120
140
DEPTH (M)
STATION 7 / TRANSECT IV
5 /30/76 2050 CST

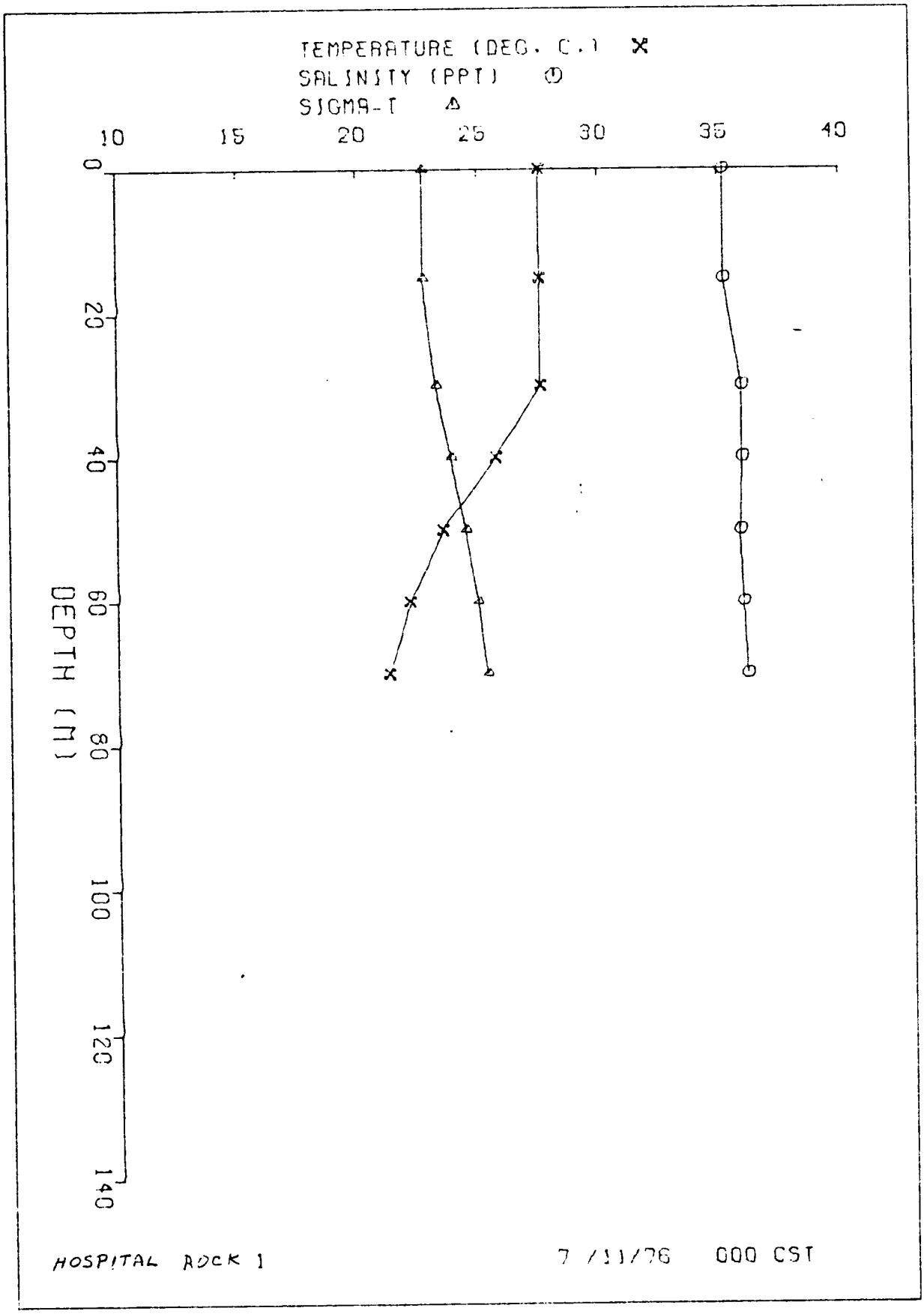
HOSPITAL ROCK 1

HYDROGRAPHIC CAST DATA ~~SOUTHERN BANK~~ 1
7/11/76 000 CST SAMPLE CODE OGZ

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	27.56	35.22	22.72	513.8	0.00	0.00	1540.9	1.5
15.0	27.58	35.22	22.72	514.6	.77	.06	1541.2	47.5
30.0	27.59	35.95	23.27	463.2	1.51	.23	1542.2	77.2
40.0	25.70	35.95	23.87	406.5	1.95	.38	1538.2	86.2
50.0	23.49	35.87	24.47	349.2	2.32	.56	1533.0	82.3
60.0	22.12	36.00	24.96	302.7	2.65	.74	1529.9	72.9
70.0	21.24	36.16	25.33	268.0	2.94	.93	1527.9	67.5

HYDROGRAPHIC CAST DATA SOUTHERN BANK 1
7/11/76 000 CST SAMPLE CODE OGF

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	27.56	35.19	22.71	515.3	0.00	0.00	1540.9	13.0
15.0	27.58	35.23	22.73	514.2	.77	.06	1541.2	50.1
30.0	27.44	35.95	23.32	458.8	1.51	.23	1541.9	77.6
45.0	25.02	36.10	24.19	376.2	2.13	.47	1536.8	78.5
60.0	23.02	36.14	24.81	317.0	2.66	.74	1532.3	74.4
75.0	20.60	36.19	25.53	249.4	3.08	1.04	1526.4	76.7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SALINITY (PPT) ⊙
SIGMA-T △
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15
20
25
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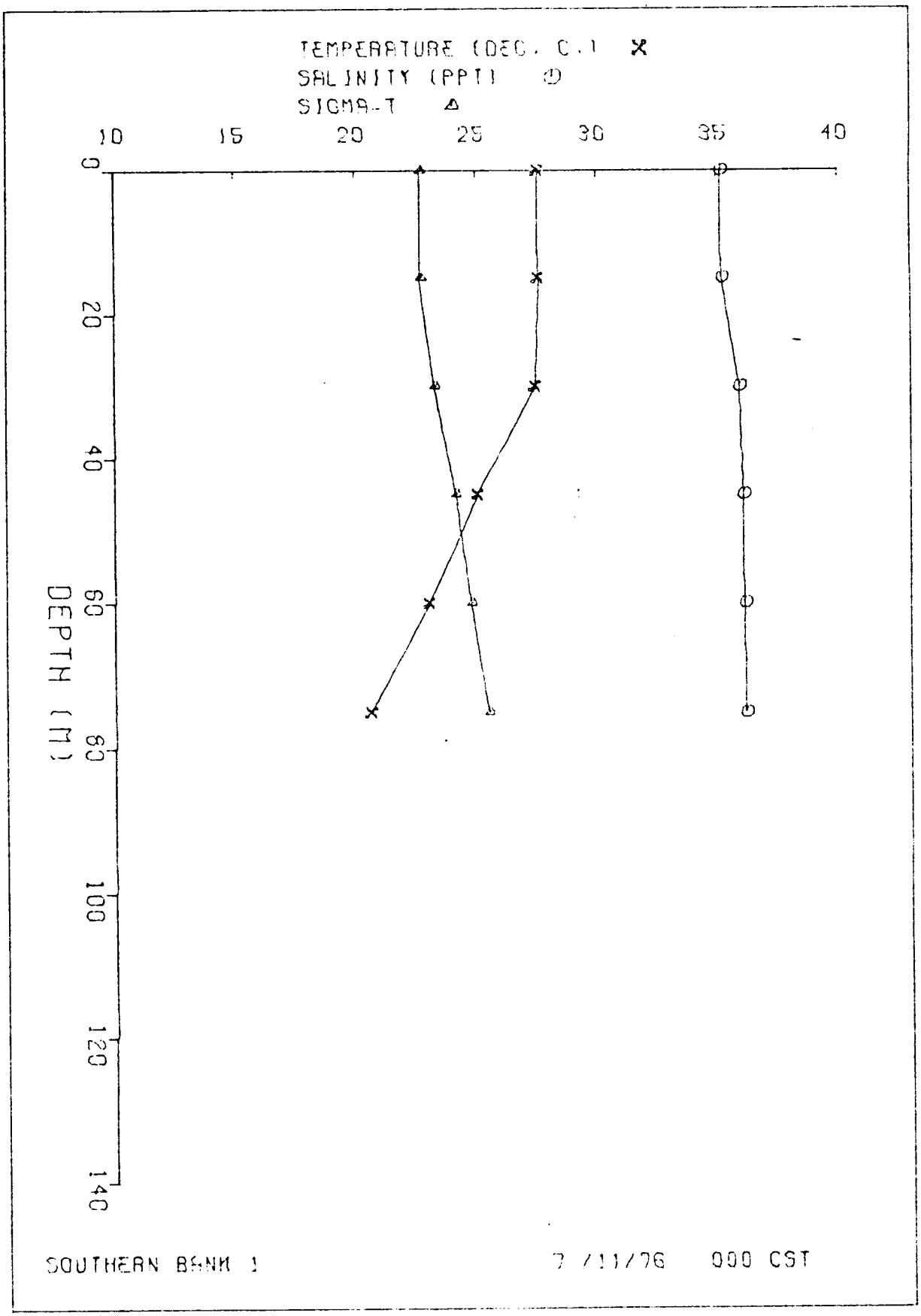
0
20
40
60
80
100
120
140
DEPTH (M)
HOSPITAL ROCK 1
7/11/76 000 CST


TEMPERATURE (DEG. C.) X
SALINITY (PPT) O
SIGMA-T Δ
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20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
SOUTHERN BANK 1
7/11/76 000 CST

HYDROGRAPHIC CAST DATA STATION 1 / TRANSECT II
7/10/76 000 CST SAMPLE CODE OHT

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	26.76	34.08	22.13	570.8	0.00	0.00	1537.9	4.6
9.0	26.76	34.08	22.13	571.3	.51	.02	1538.0	41.3
20.0	26.78	34.49	22.43	542.9	1.13	.11	1538.7	58.3

HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT II
7/10/76 000 CST SAMPLE CODE OVC

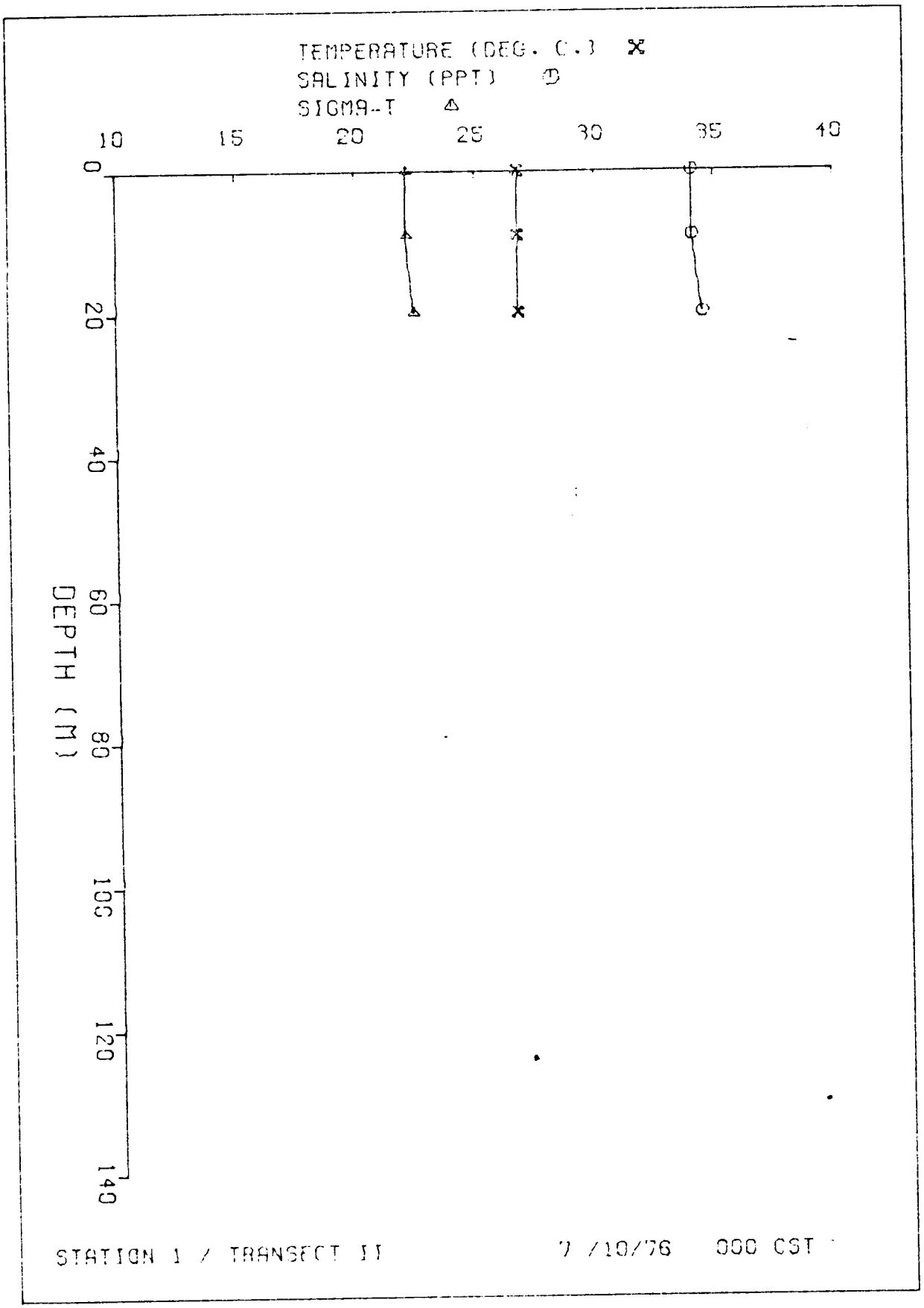
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	27.15	35.55	23.10	477.5	0.00	0.00	1540.3	8.5
15.0	27.13	35.55	23.11	477.5	.72	.05	1540.5	36.0
30.0	26.97	35.89	23.42	449.0	1.42	.22	1540.6	80.7
45.0	22.84	35.91	24.69	328.1	2.00	.43	1531.3	102.4

HYDROGRAPHIC CAST DATA STATION 3 / TRANSECT II
7/11/76 000 CST SAMPLE CODE OEN

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	27.75	35.28	22.71	515.1	0.00	0.00	1541.4	0.0
10.0	27.72	35.23	22.69	518.1	.52	.03	1541.4	11.5
20.0	27.74	35.30	22.73	514.2	1.03	.11	1541.7	78.9
30.0	26.46	36.03	23.69	423.0	1.50	.22	1539.8	57.8
40.0	27.78	36.04	23.27	463.4	1.95	.38	1542.9	74.8
50.0	23.81	36.15	24.59	337.6	2.35	.56	1534.1	99.2
60.0	22.78	36.11	24.86	312.2	2.67	.75	1531.7	58.4
70.0	21.95	36.17	25.15	285.7	2.97	.94	1529.8	58.0
80.0	21.04	36.19	25.41	261.1	3.25	1.15	1527.6	55.8
90.0	20.32	36.25	25.65	238.4	3.50	1.37	1525.9	49.5
100.0	19.84	36.29	25.80	224.1	3.73	1.60	1524.8	51.2
110.0	19.02	36.36	26.07	198.8	3.94	1.83	1522.8	51.7
120.0	18.25	36.32	26.24	183.4	4.13	2.05	1520.8	45.0

HYDROGRAPHIC CAST DATA STATION 4 / TRANSECT II
7/10/76 1540 CST SAMPLE CODE OGC

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	27.24	34.60	22.37	547.9	0.00	0.00	1539.5	0.0
5.0	27.80	33.60	21.43	637.9	.30	.01	1539.7	0.0
8.5	27.80	33.74	21.54	628.0	.52	.02	1539.9	43.2
12.3	27.80	33.74	21.54	628.1	.76	.05	1540.0	98.4
20.0	26.89	34.95	22.74	513.3	1.19	.12	1539.4	119.4
30.0	25.45	35.33	23.48	443.2	1.67	.24	1536.7	95.6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SALINITY (PPT)
SIGMA-T
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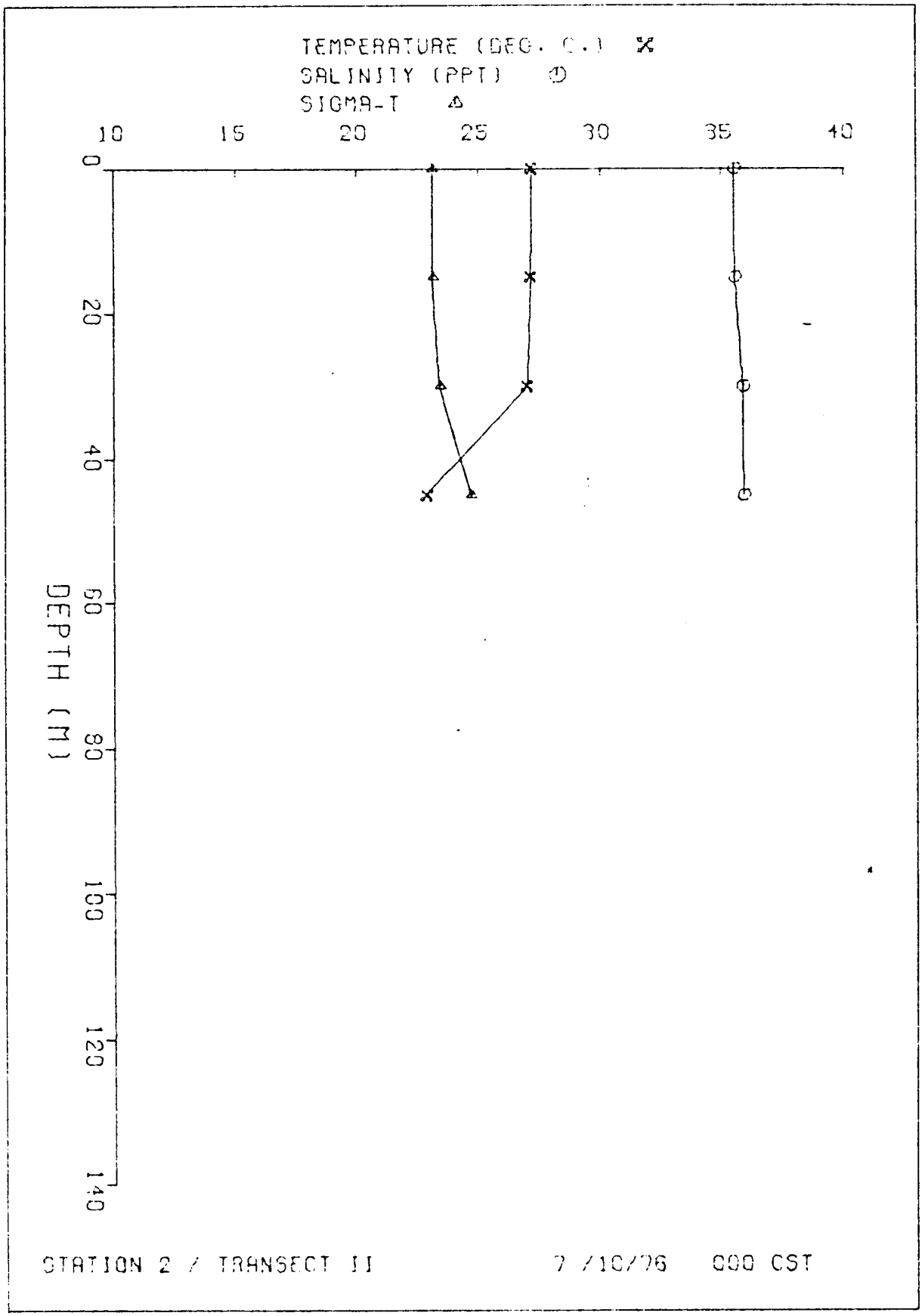
100
120
140
DEPTH (M)
STATION 1 / TRANSECT II
7 /10/76 000 CST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SALINITY (PPT) O
SIGMA-T Δ
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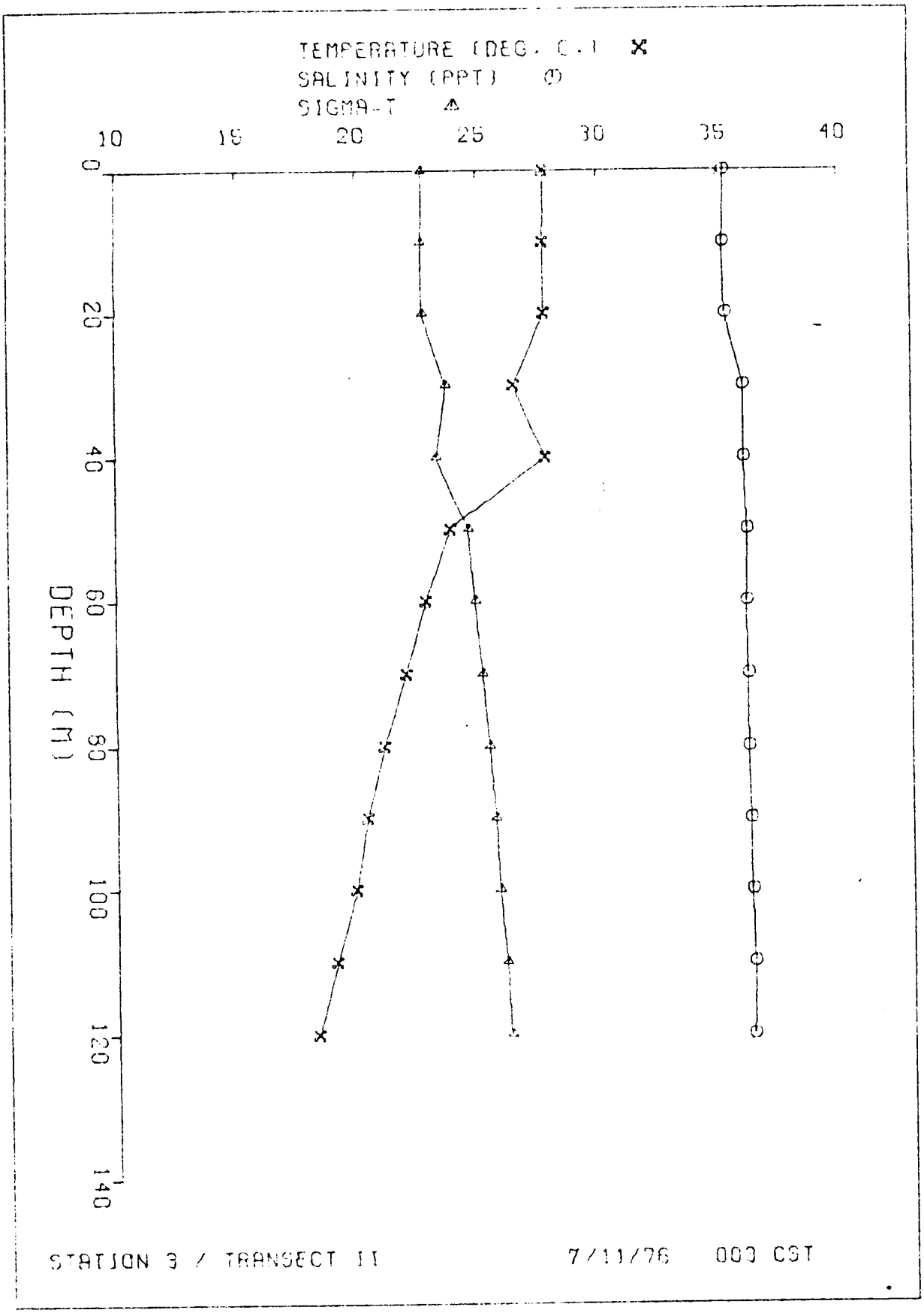
120
140
DEPTH (M)
STATION 2 / TRANSECT II
7 /10/76 000 CST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SIGMA-T Δ
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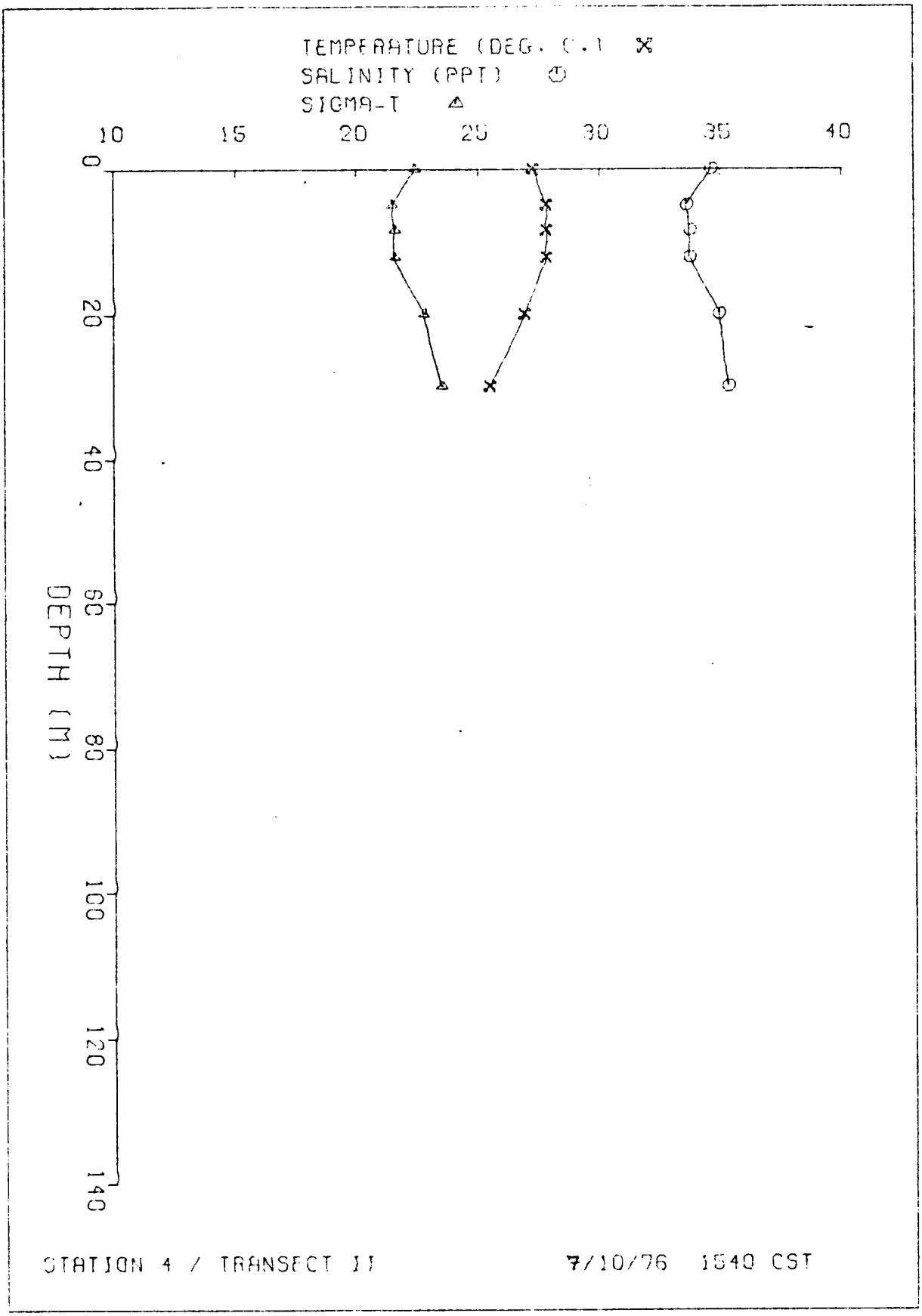
120
140
DEPTH (M)
STATION 3 / TRANSECT II
7/11/76 003 CST


TEMPERATURE (DEG. C.) ✕
SALINITY (PPT) ⏀
SIGMA-T △
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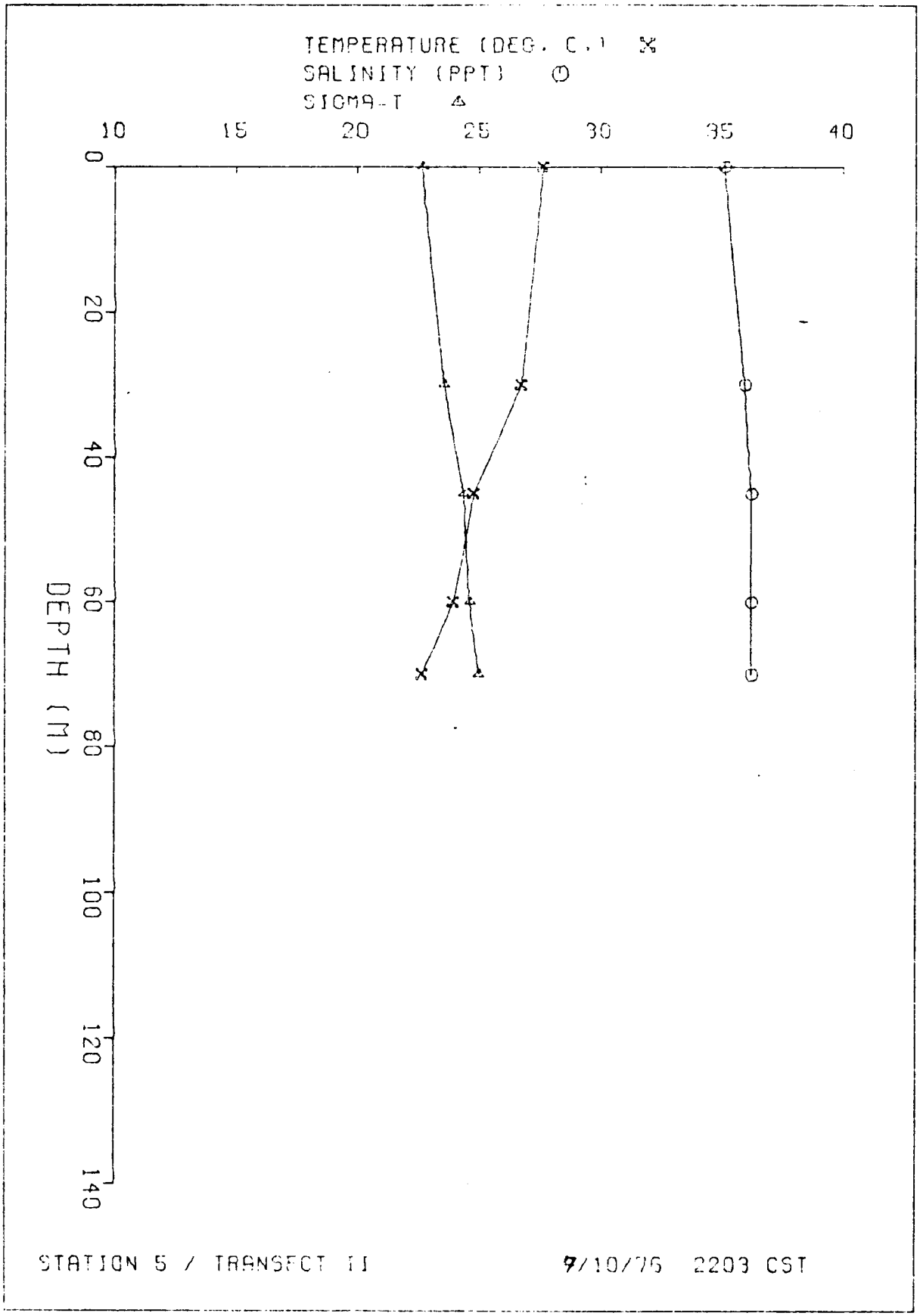
100
120
140
DEPTH (M)
STATION 4 / TRANSECT II
7/10/76 1540 CST

HYDROGRAPHIC CAST DATA STATION 5 / TRANSECT II
7/10/76 2203 CST SAMPLE CODE OGD

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	27.60	35.11	22.63	522.6	0.00	0.00	1540.9	61.8
30.0	26.70	35.96	23.56	435.6	1.44	.20	1540.3	72.5
45.0	24.76	36.23	24.37	358.9	2.03	.42	1536.4	66.2
60.0	23.91	36.23	24.62	335.4	2.56	.70	1534.6	57.6
70.0	22.63	36.22	24.99	300.7	2.88	.91	1531.6	67.4

HYDROGRAPHIC CAST DATA STATION 6 / TRANSECT II
7/11/76 903 CST SAMPLE CODE OGE

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	27.60	35.14	22.65	520.4	0.00	0.00	1540.9	0.0
20.0	27.64	35.15	22.65	521.8	1.04	.11	1541.3	71.9
40.0	24.96	36.26	24.33	362.8	1.92	.36	1536.8	82.8
60.0	23.07	36.23	24.87	312.1	2.60	.70	1532.5	59.0
70.0	22.10	36.25	25.16	284.5	2.98	.90	1530.3	55.1
90.0	20.88	36.32	25.55	247.6	3.43	1.33	1527.5	49.4


TEMPERATURE (DEG. C.) X
SALINITY (PPT) O
SIGMA-T Δ
10
15
20
25
30
35
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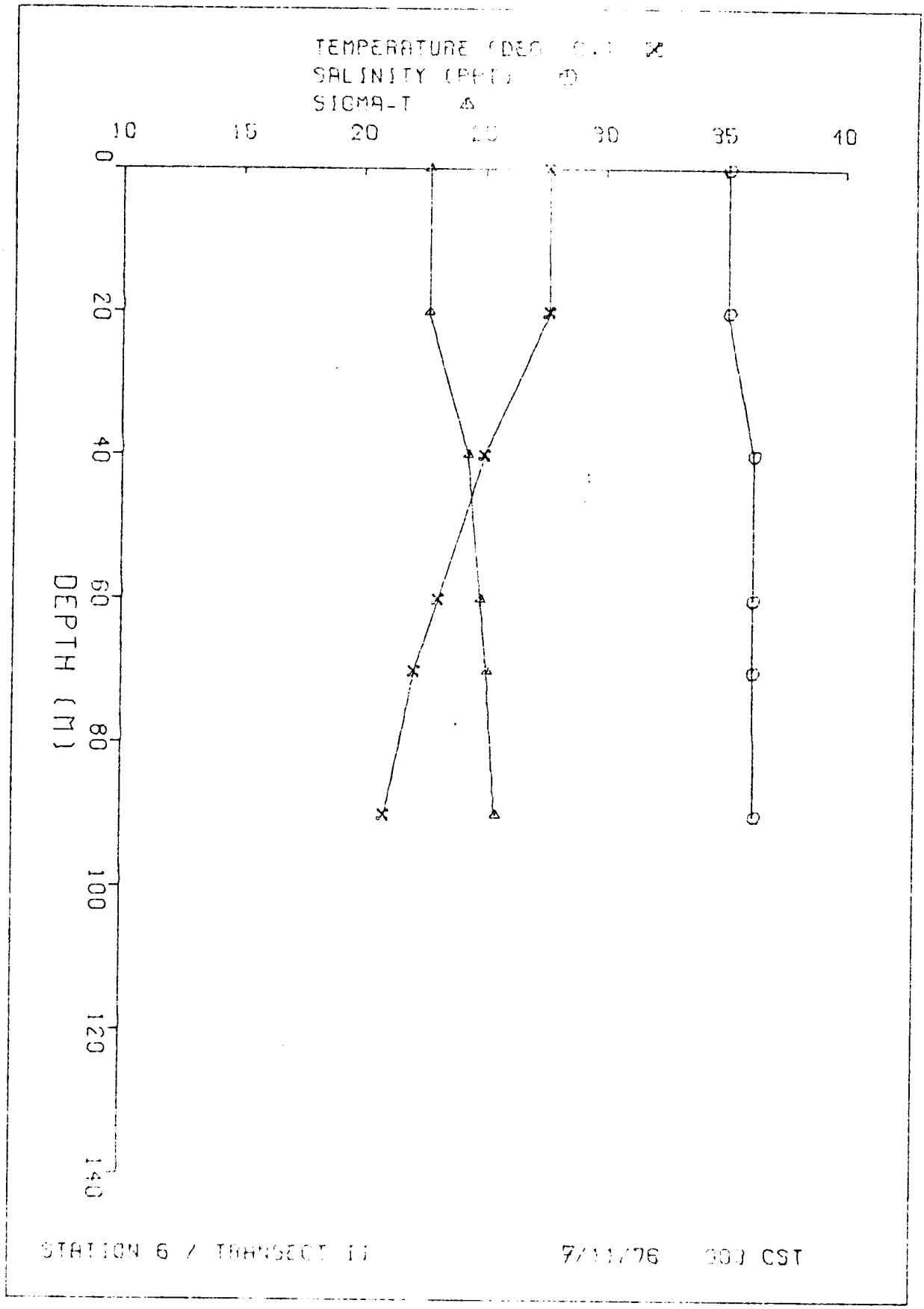
20
40
60
80
100
120
140
DEPTH (M)
STATION 5 / TRANSECT II
7/10/76 2203 CST


TEMPERATURE (DEG C.)
SALINITY (PPT)
SIGMA-T
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15
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25
30
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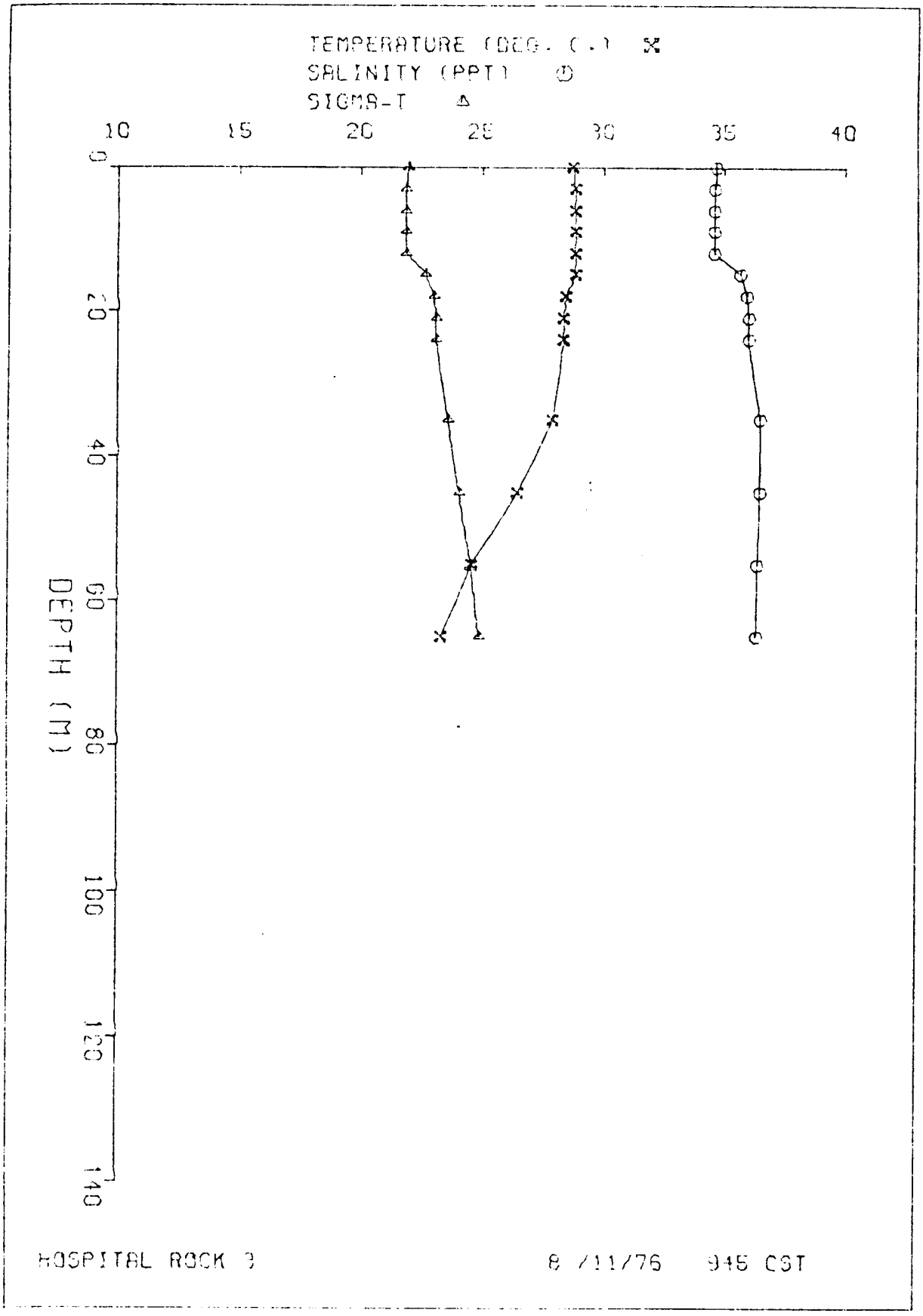
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 6 / TRANSECT 11
7/11/76 900 CST

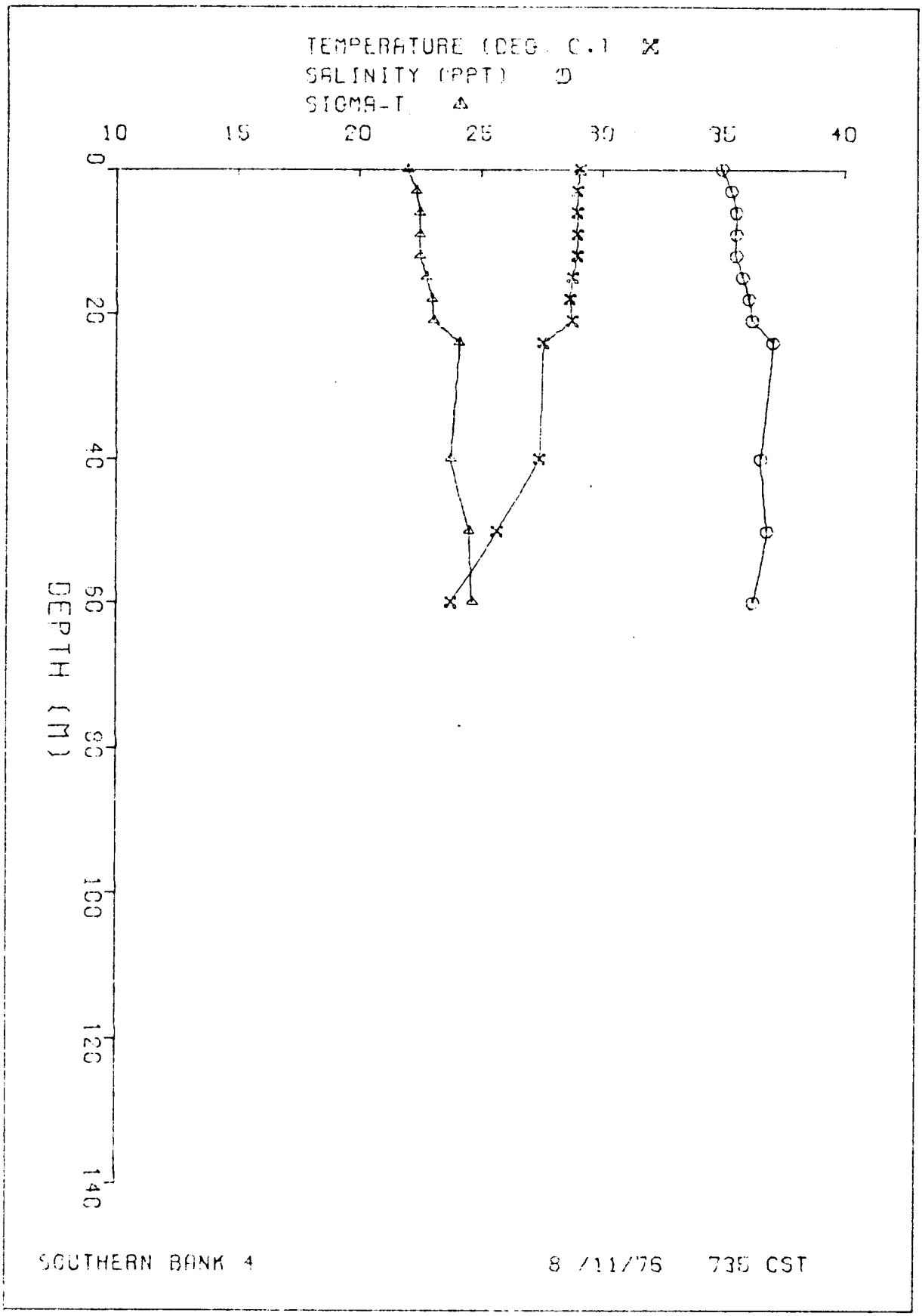
HYDROGRAPHIC CAST DATA HOSPITAL ROCK 3
8/11/76 945 CST SAMPLE CODE PIY

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	28.72	34.66	21.93	590.1	0.00	0.00	1542.8	0.0
3.0	28.82	34.60	21.85	598.0	.18	.00	1543.0	0.0
6.0	28.82	34.60	21.85	598.2	.36	.01	1543.0	0.0
9.0	28.82	34.60	21.85	598.3	.54	.02	1543.1	0.0
12.0	28.82	34.59	21.84	599.1	.72	.04	1543.1	128.9
15.0	28.82	35.67	22.65	521.7	.88	.07	1544.3	154.4
18.0	28.42	35.95	22.99	489.0	1.03	.09	1543.8	94.1
21.0	28.32	36.02	23.08	480.9	1.18	.12	1543.7	42.1
24.0	28.32	36.02	23.08	481.0	1.32	.15	1543.8	53.7
35.0	27.88	36.51	23.59	432.6	1.83	.31	1543.6	75.5
45.0	26.44	36.50	24.05	389.6	2.24	.47	1540.5	77.2
55.0	24.54	36.39	24.56	341.4	2.60	.66	1536.2	72.2
65.0	23.32	36.36	24.89	310.0	2.93	.86	1533.4	64.2

HYDROGRAPHIC CAST DATA SOUTHERN BANK 4
8/11/76 735 CST SAMPLE CODE PIF

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	29.04	34.88	21.98	584.6	0.00	0.00	1543.7	117.4
3.0	28.94	35.28	22.32	553.0	.17	.00	1544.0	100.8
6.0	28.94	35.49	22.48	538.1	.33	.01	1544.2	55.7
9.0	28.94	35.48	22.47	538.9	.50	.02	1544.3	0.0
12.0	28.94	35.48	22.47	539.0	.66	.04	1544.3	75.7
15.0	28.74	35.76	22.75	512.7	.81	.06	1544.3	103.0
18.0	28.64	36.03	22.98	490.2	.96	.09	1544.4	78.8
21.0	28.74	36.16	23.05	484.2	1.11	.12	1544.8	151.2
24.0	27.54	37.02	24.09	384.8	1.24	.15	1543.2	142.1
40.0	27.40	36.51	23.75	417.5	1.90	.36	1542.6	58.0
50.0	25.66	36.78	24.51	346.1	2.28	.54	1539.2	74.5
60.0	23.76	36.21	24.65	332.6	2.62	.73	1534.2	42.4


TEMPERATURE (DEG. C.) ✕
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
HOSPITAL ROCK 3
8/11/76 945 CST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SALINITY (PPT) D
SIGMA-T Δ
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15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
SOUTHERN BANK 4
8/11/76 735 CST

HYDROGRAPHIC CAST DATA STATION 1 / TRANSECT II
8/ 9/76 1508 CST SAMPLE CODE PDE

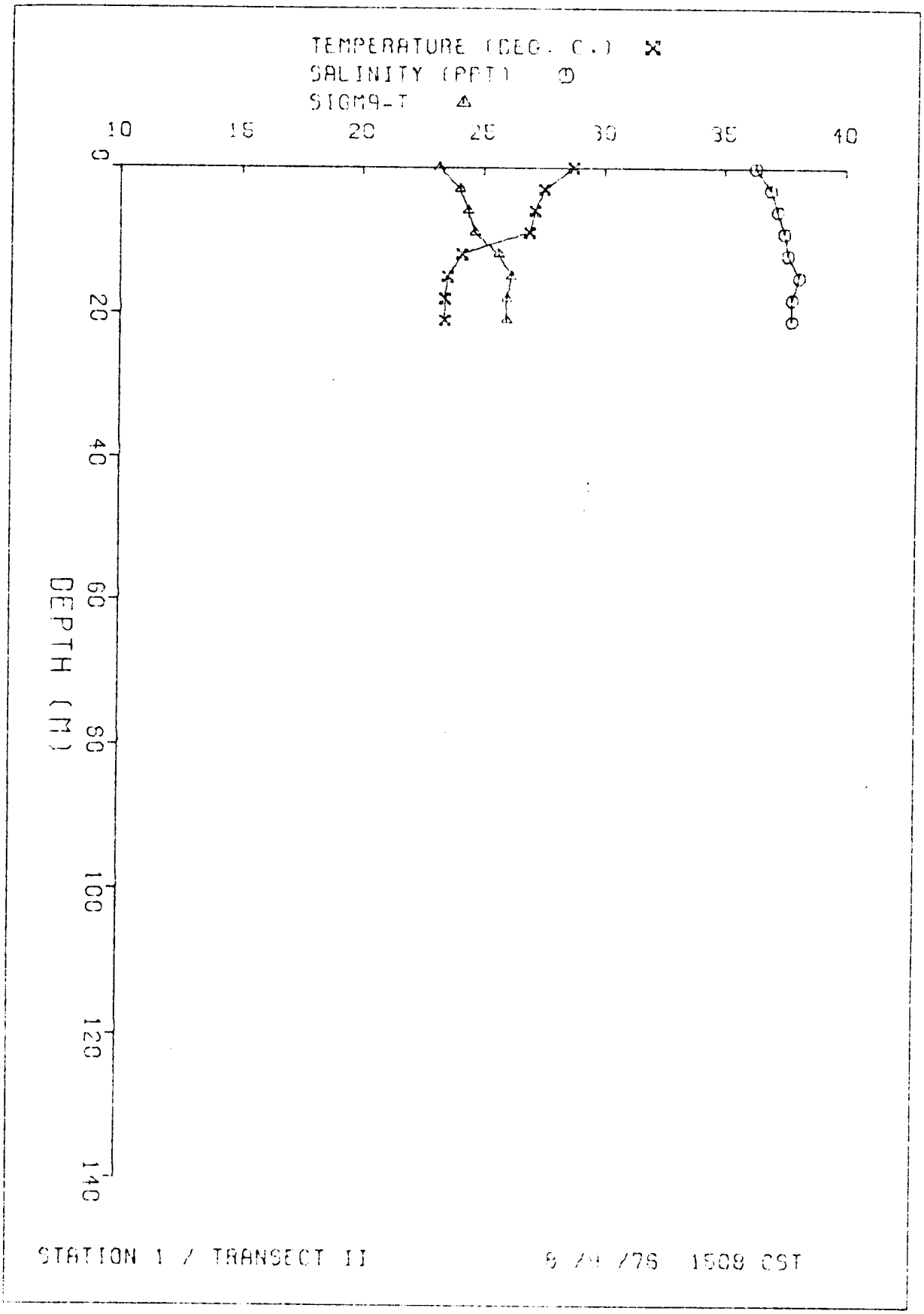
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	28,69	36,25	23,13	475,0	0,00	0,00	1544,4	189,4
3,0	27,49	36,88	24,00	392,4	,13	,00	1542,6	157,9
6,0	27,09	37,16	24,34	360,1	,24	,01	1542,1	113,4
9,0	26,89	37,45	24,62	333,2	,35	,02	1542,0	161,5
12,0	24,09	37,60	25,61	239,9	,43	,02	1535,8	176,3
15,0	23,49	38,06	26,13	189,9	,50	,03	1534,9	82,3
18,0	23,39	37,76	25,93	208,8	,56	,04	1534,4	0,0
21,0	23,39	37,76	25,93	208,9	,62	,06	1534,4	0,0

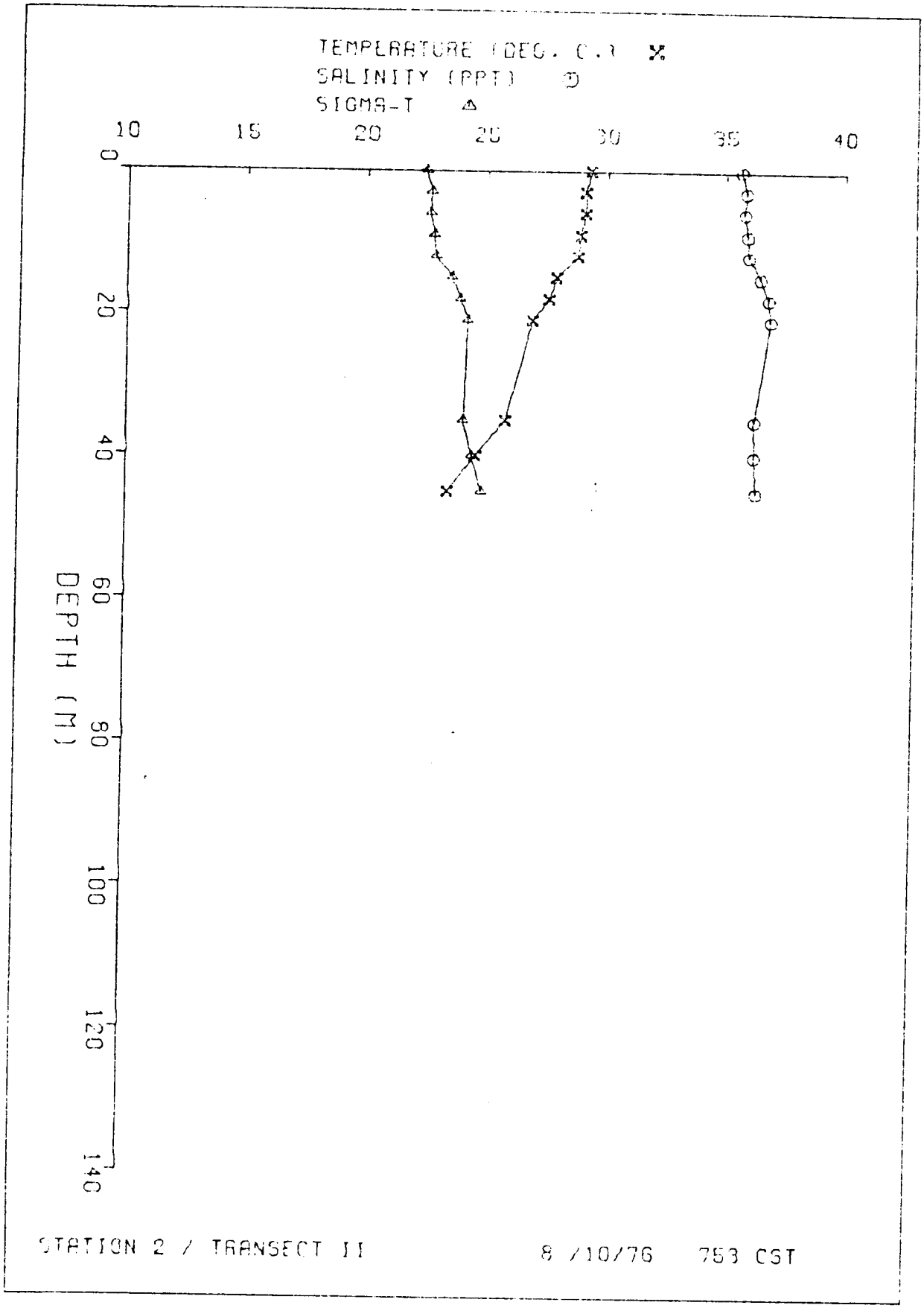
HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT II
8/10/76 753 CST SAMPLE CODE PET

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	29,28	35,58	22,43	542,0	0,00	0,00	1545,0	96,4
3,0	29,08	35,79	22,65	520,9	,16	,00	1544,8	59,7
6,0	29,08	35,72	22,60	526,0	,32	,01	1544,8	49,7
9,0	28,88	35,86	22,77	509,7	,47	,02	1544,6	72,0
12,0	28,78	35,92	22,85	502,3	,62	,04	1544,5	124,6
15,0	27,88	36,42	23,53	438,1	,76	,06	1543,1	146,1
18,0	27,58	36,77	23,89	403,7	,89	,08	1542,9	116,3
21,0	26,88	36,86	24,18	375,8	1,01	,10	1541,5	73,3
35,0	25,79	36,20	24,03	391,1	1,55	,26	1538,6	63,6
40,0	24,56	36,21	24,41	354,8	1,73	,33	1535,8	99,7
45,0	23,41	36,31	24,83	315,0	1,90	,40	1533,2	102,0

HYDROGRAPHIC CAST DATA STATION 3 / TRANSECT II
8/10/76 1705 CST SAMPLE CODE PGF

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	29,65	35,26	22,06	577,0	0,00	0,00	1545,4	57,1
3,0	29,55	35,32	22,14	569,8	,17	,00	1545,3	102,7
6,0	29,45	35,85	22,57	528,6	,34	,01	1545,7	117,5
9,0	29,35	36,12	22,81	506,2	,49	,02	1545,8	100,4
12,0	29,05	36,32	23,06	482,3	,64	,04	1545,5	69,3
15,0	28,95	36,25	23,04	484,2	,79	,06	1545,2	56,2
18,0	28,75	36,39	23,22	467,9	,93	,08	1545,0	85,7
21,0	28,65	36,59	23,40	450,5	1,07	,11	1545,1	112,5
24,0	28,15	36,94	23,83	409,6	1,20	,14	1544,4	111,3
27,0	27,95	37,08	24,00	393,4	1,32	,17	1544,2	49,2
45,0	27,67	36,53	23,68	424,9	2,05	,44	1543,3	46,8
65,0	23,95	36,41	24,74	324,0	2,80	,85	1535,0	68,1
85,0	22,41	36,38	25,18	283,6	3,41	1,32	1531,5	65,6
105,0	18,95	36,41	26,14	192,8	3,89	1,77	1522,6	64,2
125,0	17,39	36,40	26,51	157,6	4,24	2,18	1518,4	48,1


TEMPERATURE (DEG. C.) X
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 1 / TRANSECT II
8 /A /76 1508 CST


TEMPERATURE (DEG. C.) X
SALINITY (PPT) Θ
SIGMA-T Δ
10
15
20
25
30
35
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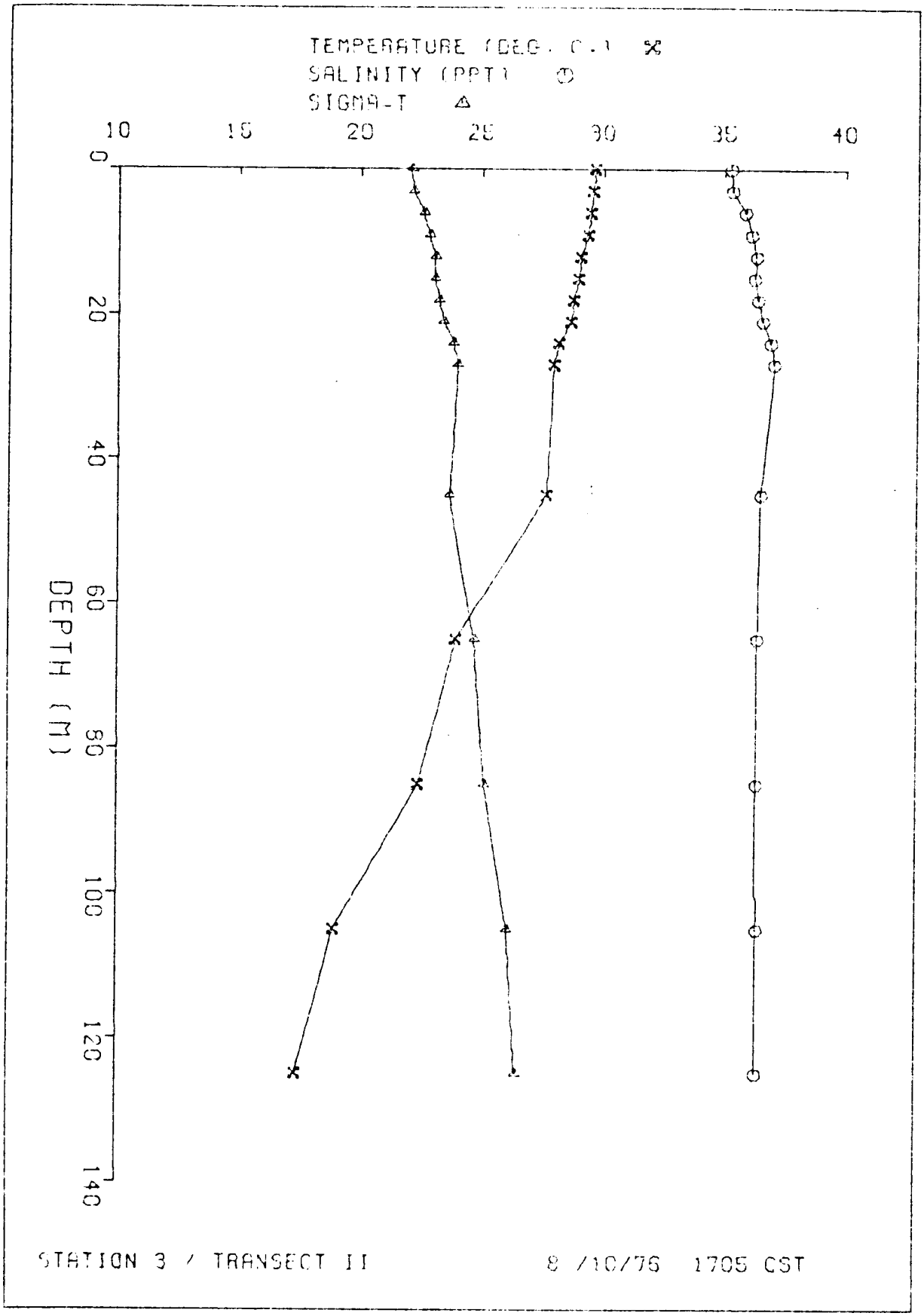
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 2 / TRANSECT II
8 /10/76 753 CST


TEMPERATURE (DEG. C.)
SALINITY (PPT)
SIGMA-T
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15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 3 / TRANSECT II
8 /10/76 1705 CST

HYDROGRAPHIC CAST DATA STATION 4 / TRANSECT II
8/ 9/76 2305 CST SAMPLE CODE PIC

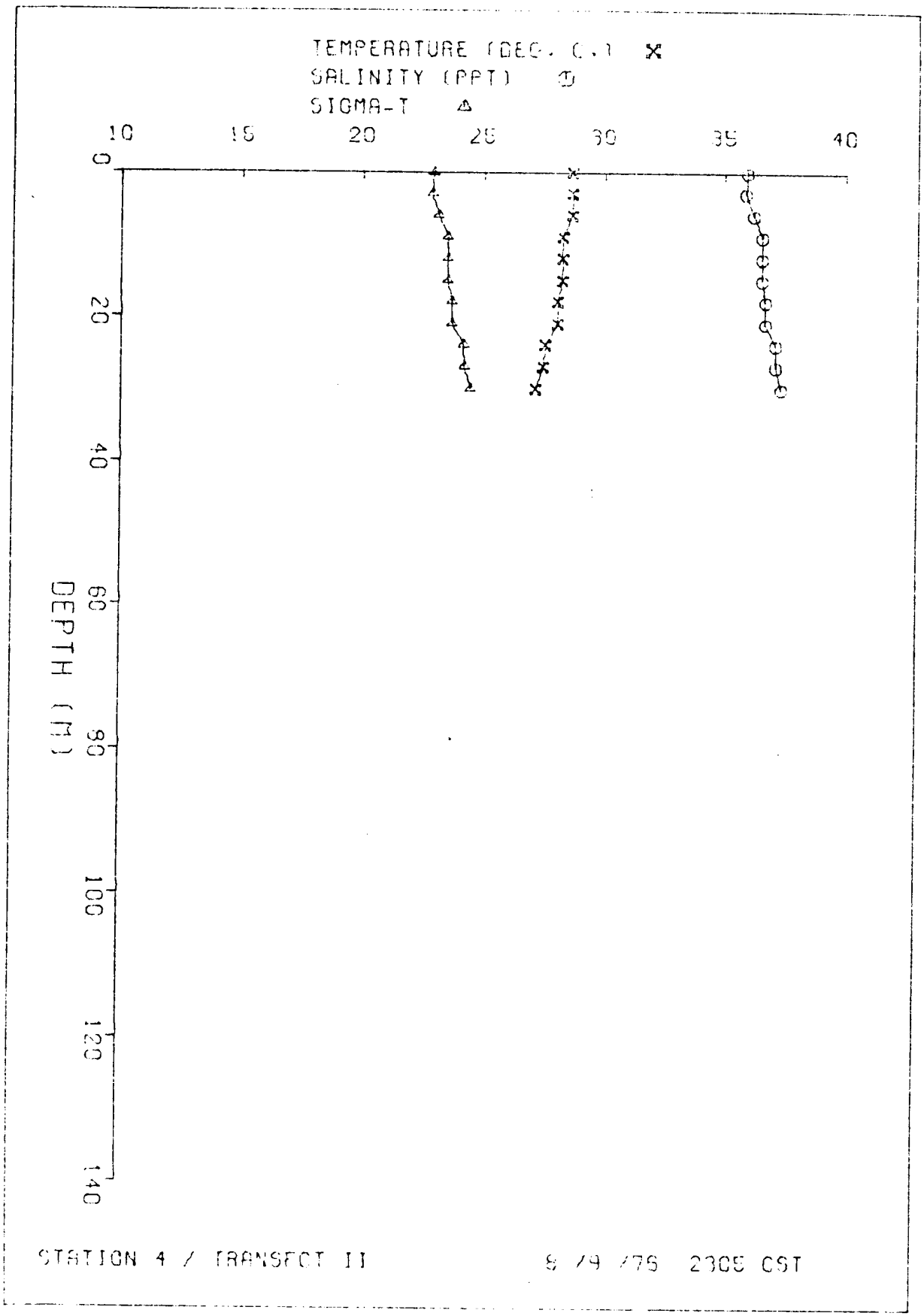
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	28.65	35.92	22.90	497.4	0.00	0.00	1544.0	0.0
3.0	28.65	35.85	22.84	502.8	.15	.00	1544.0	64.7
6.0	28.65	36.19	23.10	478.5	.30	.01	1544.4	116.0
9.0	28.25	36.54	23.49	440.9	.44	.02	1544.0	90.4
12.0	28.25	36.54	23.49	441.0	.57	.03	1544.0	0.0
15.0	28.25	36.54	23.49	441.1	.70	.05	1544.1	59.5
18.0	28.05	36.68	23.67	424.9	.83	.07	1543.8	59.4
21.0	28.05	36.68	23.67	425.0	.96	.10	1543.9	101.1
24.0	27.55	37.12	24.16	377.9	1.08	.13	1543.3	104.3
27.0	27.45	37.12	24.19	375.0	1.19	.16	1543.2	78.1
30.0	27.15	37.34	24.46	350.0	1.30	.19	1542.8	104.1

HYDROGRAPHIC CAST DATA STATION 5 / TRANSECT II
8/11/76 0850 CST SAMPLE CODE PID

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	29.05	34.78	21.91	592.1	0.00	0.00	1543.6	136.4
3.0	29.05	35.38	22.36	549.4	.17	.00	1544.3	96.4
6.0	29.05	35.38	22.36	549.5	.34	.01	1544.4	0.0
9.0	29.05	35.38	22.36	549.6	.50	.02	1544.4	0.0
12.0	29.05	35.38	22.36	549.7	.67	.04	1544.5	71.9
15.0	28.75	35.58	22.61	525.9	.83	.06	1544.1	93.4
18.0	28.55	35.72	22.78	509.6	.98	.09	1543.9	75.6
21.0	28.55	35.86	22.88	499.7	1.13	.12	1544.1	87.7
24.0	28.65	36.26	23.15	474.3	1.28	.15	1544.8	35.9
40.0	28.56	34.76	22.06	579.5	2.13	.44	1543.2	0.0
50.0	27.87	34.84	22.34	552.8	2.70	.70	1542.0	73.7
60.0	27.11	35.30	22.93	496.6	3.23	1.00	1541.0	144.4
70.0	20.47	36.38	25.71	232.2	3.60	1.23	1526.2	185.2

HYDROGRAPHIC CAST DATA STATION 6 / TRANSECT II
8/10/76 2305 CST SAMPLE CODE PIE

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	28.98	34.77	21.92	590.5	0.00	0.00	1543.5	46.6
3.0	28.98	34.84	21.97	585.9	.18	.00	1543.6	85.4
6.0	28.96	35.24	22.27	557.3	.35	.01	1544.1	61.1
9.0	29.18	35.17	22.15	568.9	.52	.02	1544.5	69.9
12.0	28.88	35.51	22.51	535.0	.68	.04	1544.2	79.1
15.0	28.88	35.44	22.46	540.1	.84	.06	1544.2	115.2
18.0	28.78	36.32	23.15	473.9	.99	.09	1545.0	126.9
21.0	28.68	36.39	23.24	465.8	1.14	.12	1544.9	49.6
24.0	28.58	36.39	23.27	462.7	1.27	.15	1544.7	45.4
40.0	27.61	36.44	23.63	429.6	1.99	.38	1543.0	64.6
55.0	25.39	36.41	24.31	365.2	2.59	.67	1538.2	71.4
70.0	23.28	36.31	24.86	312.7	3.10	1.00	1533.3	77.9
80.0	21.24	36.35	25.47	254.9	3.38	1.22	1528.3	87.0
90.0	19.57	35.56	26.09	196.8	3.61	1.41	1524.3	87.1


TEMPERATURE (DEG. C.) X
SALINITY (PPT) Φ
SIGMA-T Δ
10
15
20
25
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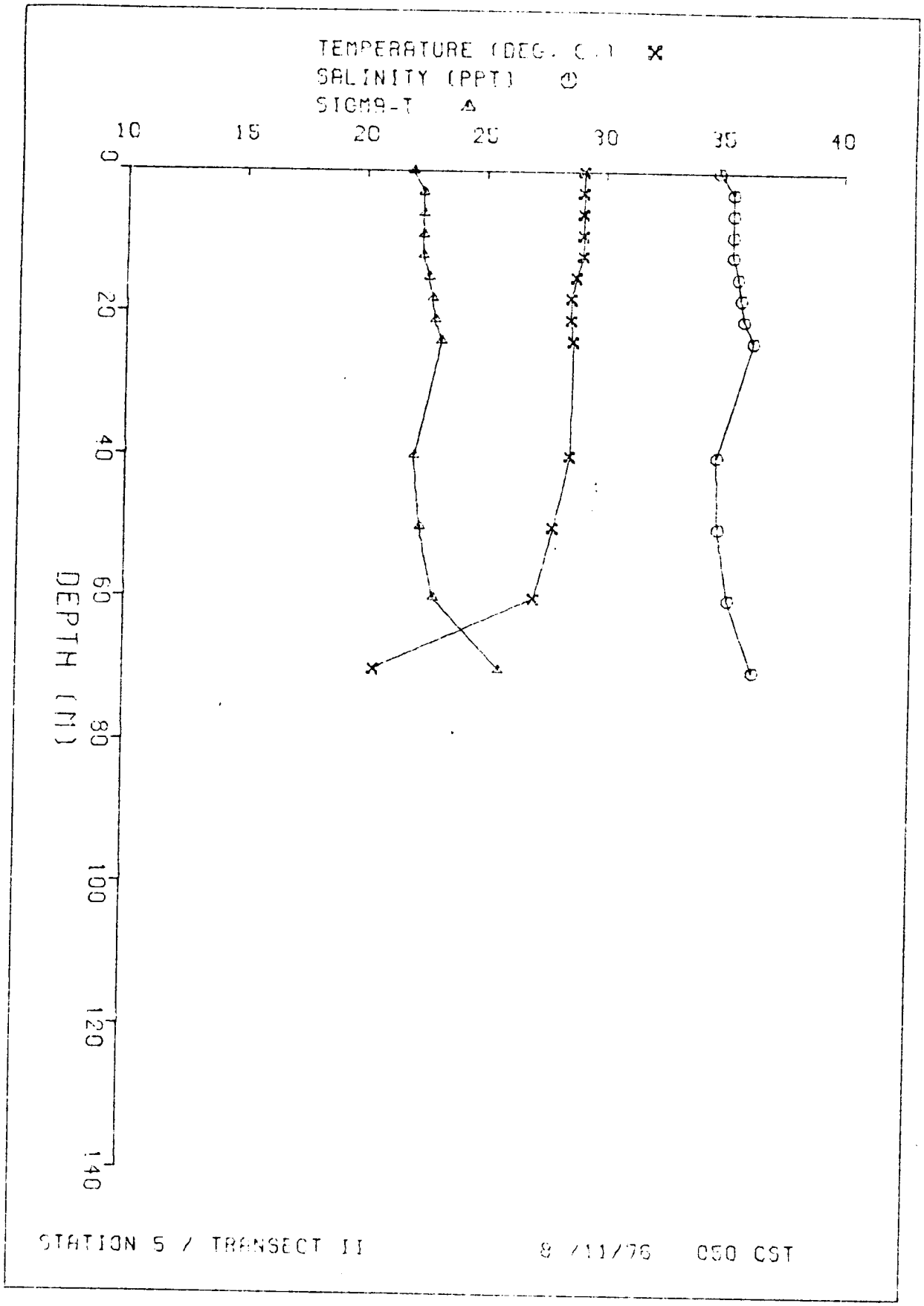
60
80
100
120
140
DEPTH (M)
STATION 4 / TRANSECT II
8 /9 /79 2305 CST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SALINITY (PPT) ⊙
SIGMA-T △
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15
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25
30
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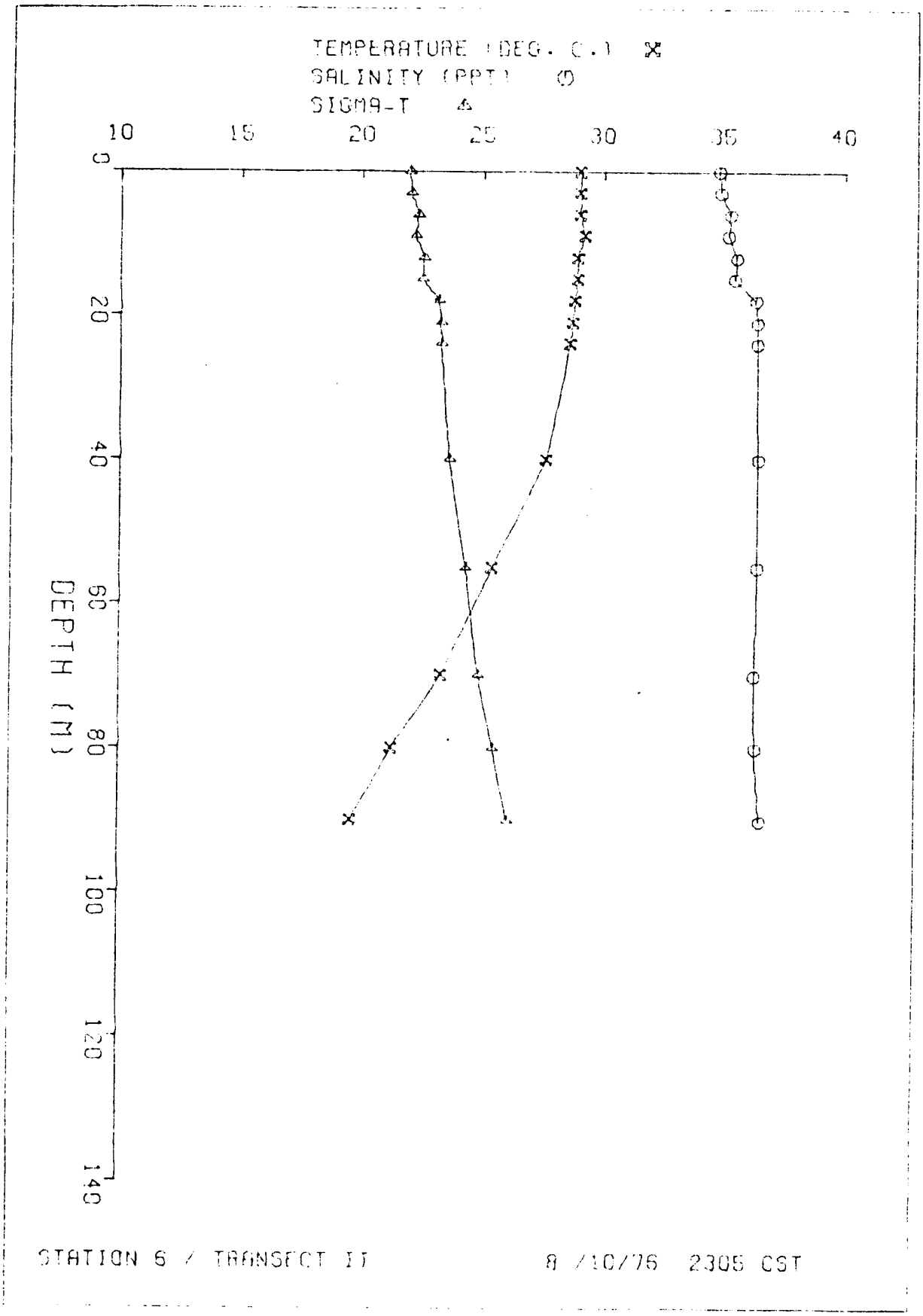
20
40
60
80
100
120
140
DEPTH (M)
STATION 5 / TRANSECT II
8 /11/76 0930 CST



STATION 6 / TRANSECT II 8 /10/76 2305 CST

HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT 1
9/15/76 837 CST SAMPLE CODE QEC

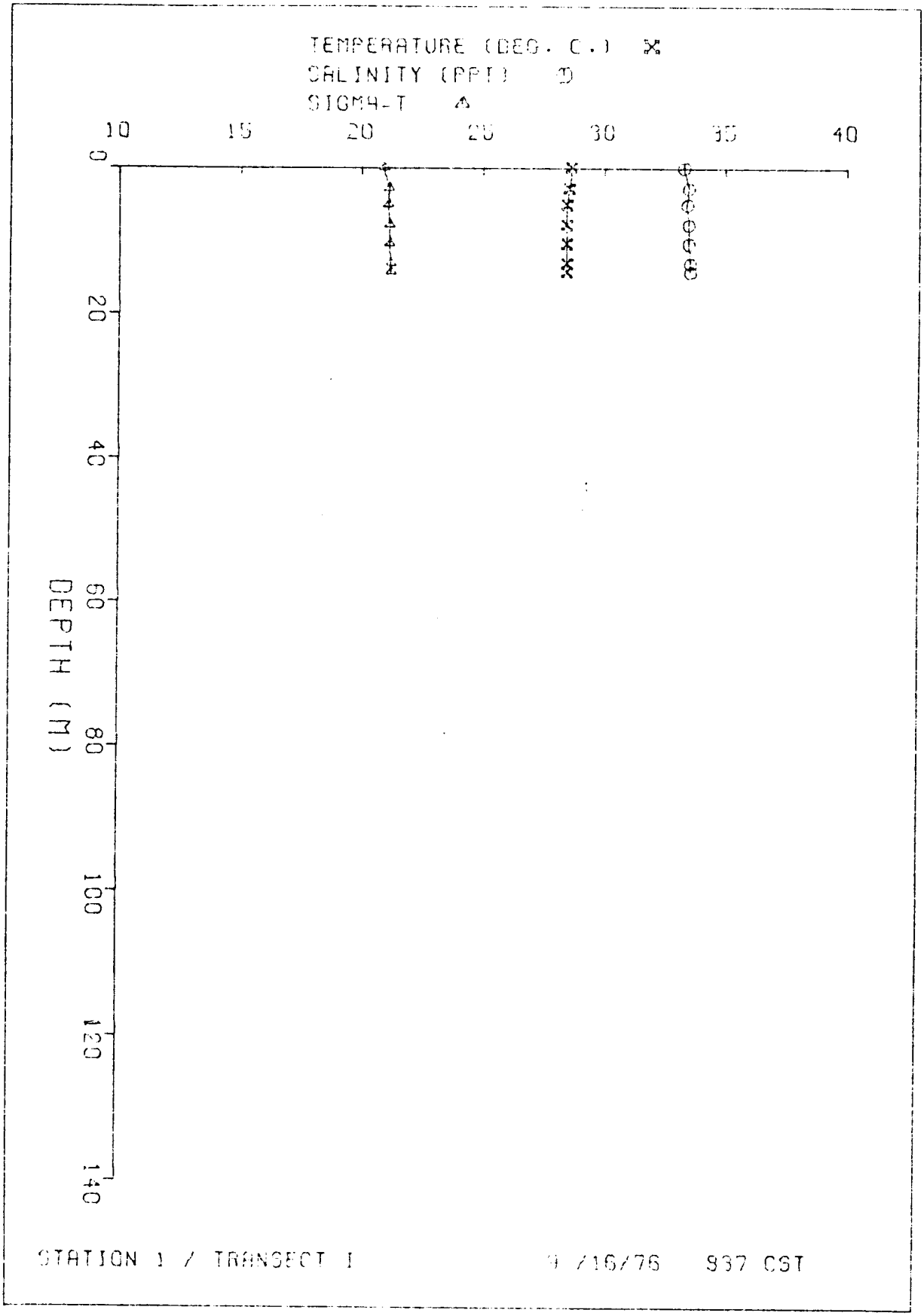
DEPTH	TEMP	SALIN	SIGMA T	SVA	DELTA D	POT EN	SOUND VEL	BV FRQ
0.0	28.66	33.71	20.93	685.5	0.00	0.00	1541.2	90.5
2.8	28.55	33.91	21.12	669.2	.19	.00	1541.3	60.1
5.1	28.46	33.94	21.10	671.0	.34	.01	1541.0	25.1
7.9	28.45	33.91	21.15	666.3	.53	.02	1541.1	33.2
10.5	28.45	33.91	21.15	665.4	.71	.04	1541.2	33.8
13.2	28.46	33.97	21.20	661.7	.89	.06	1541.3	33.8
14.4	28.46	33.97	21.20	661.8	.96	.07	1541.3	0.0

HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT 1
9/15/76 173 CST SAMPLE CODE QEC

DEPTH	TEMP	SALIN	SIGMA T	SVA	DELTA D	POT EN	SOUND VEL	BV FRQ
0.0	28.45	34.63	21.89	593.1	0.00	0.00	1543.1	0.0
5.7	28.45	34.67	21.89	593.8	.34	.01	1543.2	48.3
10.1	28.45	34.94	22.06	574.0	.60	.03	1543.7	66.9
14.5	28.45	35.14	22.21	561.7	.85	.06	1544.0	77.2
19.2	28.45	35.46	22.50	539.1	1.11	.11	1544.3	88.6
23.7	28.75	35.63	22.79	508.4	1.34	.15	1544.5	84.3
28.0	28.45	35.96	23.01	486.1	1.55	.21	1544.1	114.9
34.3	26.95	36.76	24.04	393.0	1.93	.30	1541.7	99.3
38.5	26.45	36.83	24.02	391.9	2.09	.36	1541.5	0.0

HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT 1
9/15/76 1053 CST SAMPLE CODE QEC

DEPTH	TEMP	SALIN	SIGMA T	SVA	DELTA D	POT EN	SOUND VEL	BV FRQ
0.0	28.96	36.25	23.56	481.4	0.00	0.00	1544.9	0.0
4.8	28.96	36.18	23.01	486.8	.23	.01	1544.9	0.0
9.5	28.90	36.12	22.96	492.0	.46	.02	1544.9	56.3
14.4	28.96	36.52	23.26	463.1	.70	.05	1545.4	37.8
19.1	28.97	36.75	23.06	482.9	.93	.09	1545.2	0.0
23.4	28.97	36.35	23.06	483.2	1.13	.13	1545.3	64.0
28.0	28.90	36.65	23.36	454.2	1.34	.19	1545.8	71.3
33.6	28.83	36.73	23.45	446.0	1.63	.27	1545.7	56.0
39.0	28.38	36.76	23.64	428.3	1.83	.36	1544.8	71.1
44.1	26.49	36.42	23.86	405.6	2.05	.45	1541.3	73.7
49.8	25.83	36.26	24.07	387.4	2.23	.54	1539.9	75.5
54.0	24.73	36.17	24.34	362.2	2.43	.64	1536.3	92.4
59.0	23.90	36.42	24.77	321.0	2.60	.74	1534.8	81.5
63.8	23.56	36.44	24.87	311.8	2.75	.84	1534.1	63.9
68.1	23.03	36.46	25.01	298.3	2.88	.92	1532.8	40.2
72.1	22.71	36.25	24.99	300.8	3.00	1.01	1531.8	51.4
76.5	22.20	36.42	25.26	275.0	3.13	1.11	1530.8	78.1
81.5	21.31	36.51	25.45	257.7	3.26	1.21	1530.0	42.7
90.0	21.08	36.39	25.36	263.8	3.49	1.41	1529.7	20.4
105.0	21.11	36.42	25.39	244.5	3.87	1.79	1528.2	48.4
115.0	20.19	36.44	25.63	221.9	4.16	2.06	1526.2	52.1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SALINITY (PPT) D
SIGMA-T A
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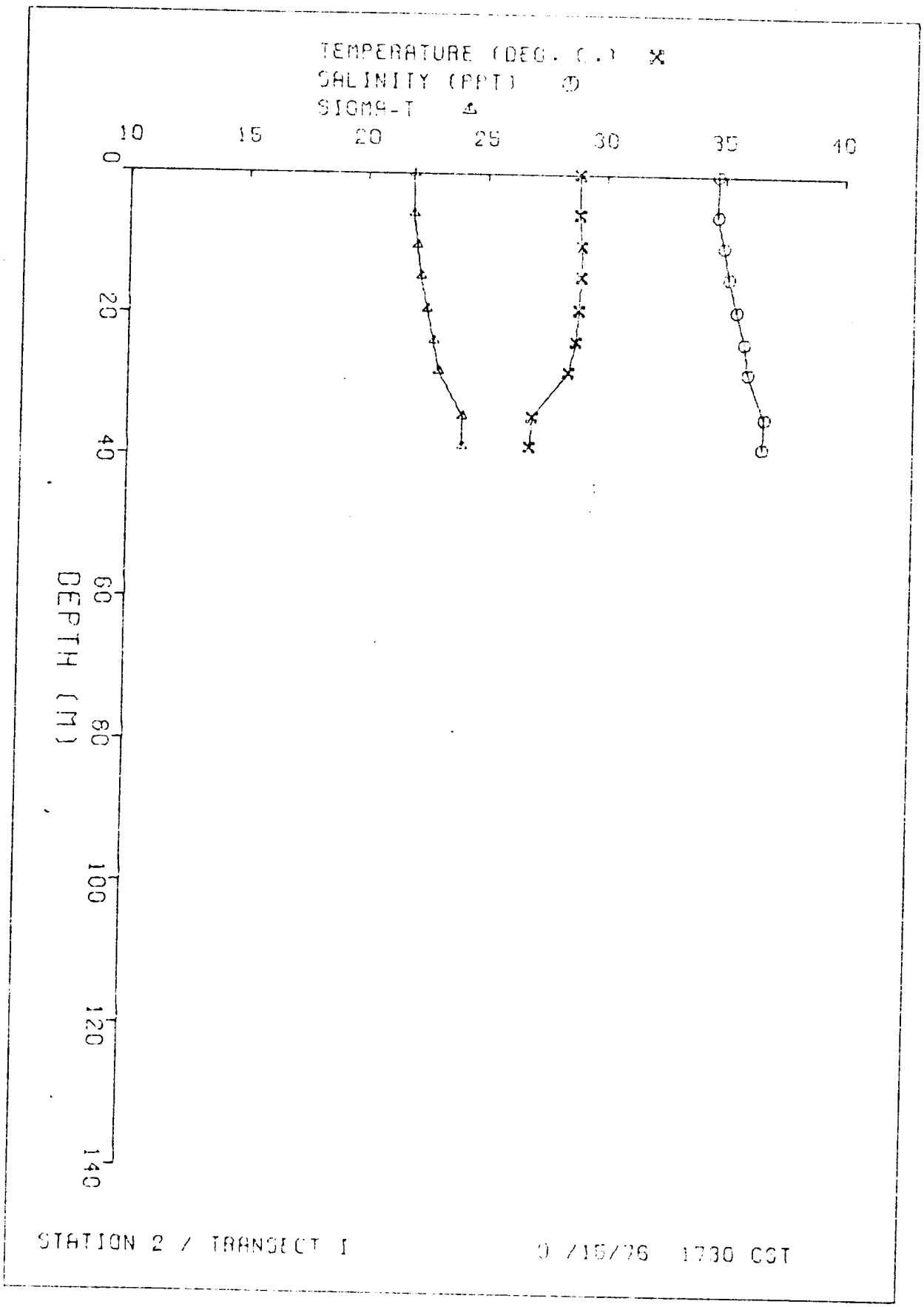
DEPTH (M)
STATION 1 / TRANSECT I
9 /16/76 937 CST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SIGMA-T △
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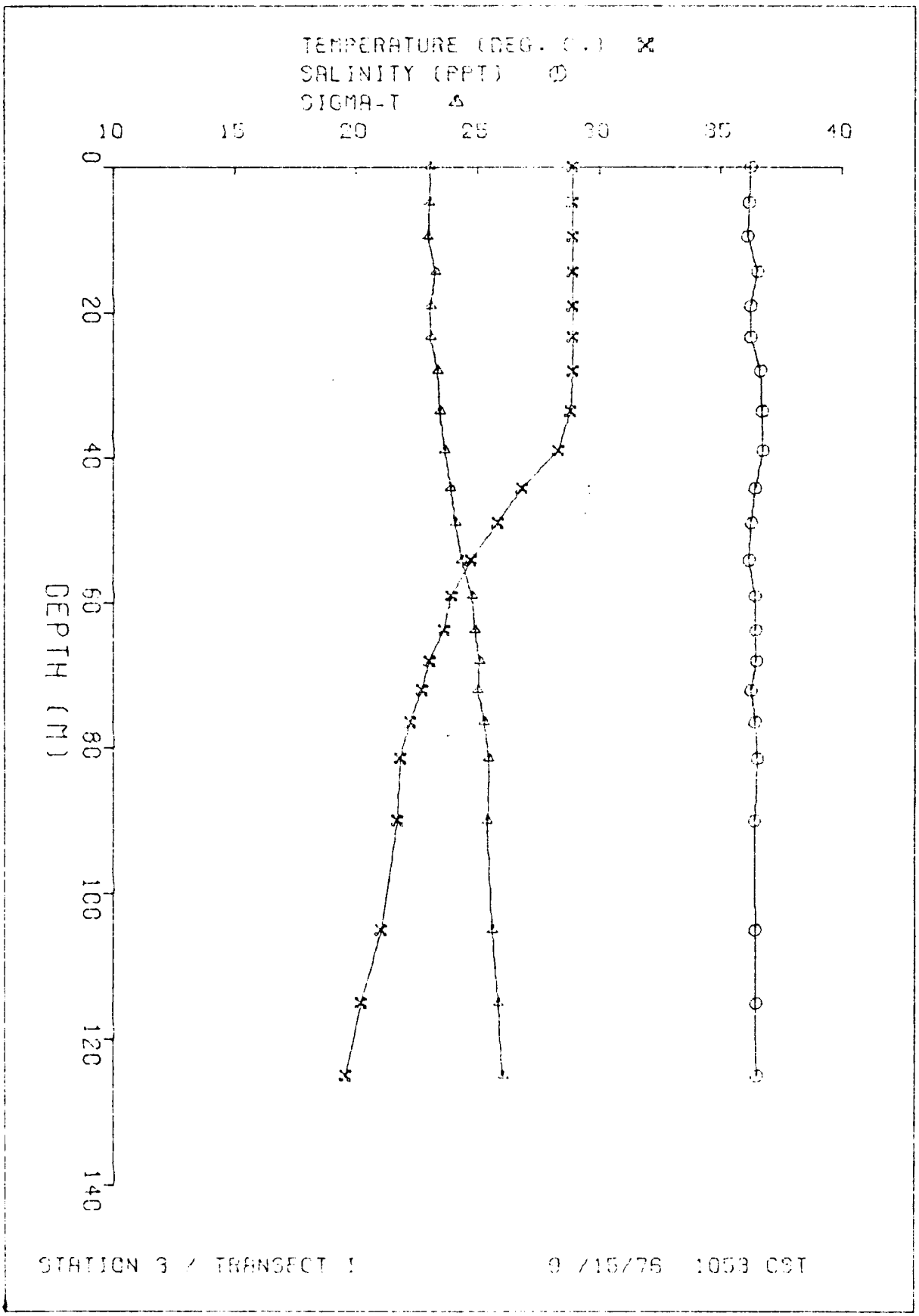
DEPTH (M)
STATION 2 / TRANSECT I
0 /15/26 1730 CST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SALINITY (PPT) O
SIGMA-T Δ
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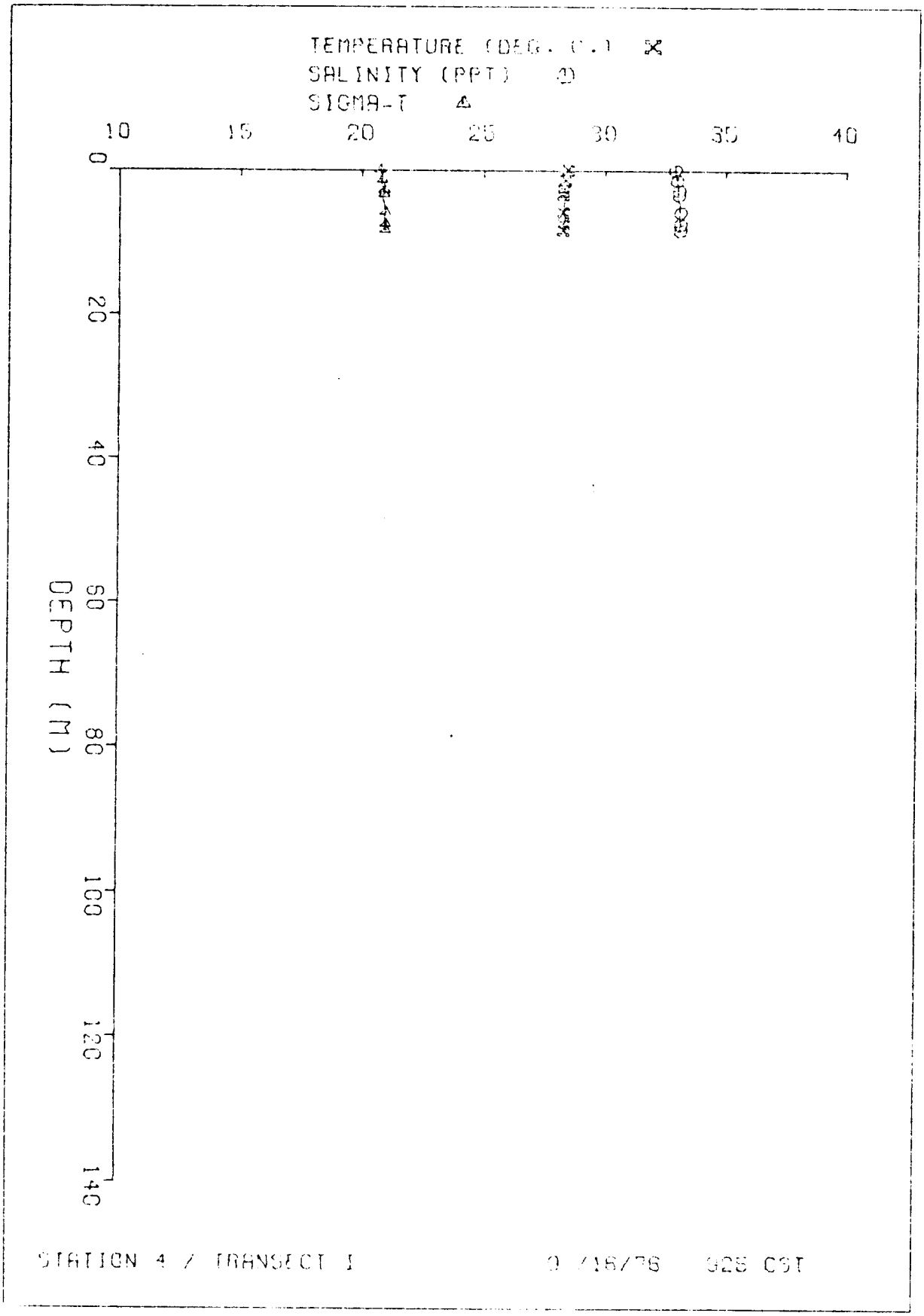
DEPTH (M)
STATION 3 / TRANSECT 1
9 /15/76 1053 CST

HYDROGRAPHIC CAST DATA STATION 4 / TRANSECT 1
9/16/76 925 CST SAMPLE CODE QFS

DEPTH	TEMP	SALIN	SIGMA T	SVA	DELTA D	POT EN	SOUND VEL	BV FRQ
0.0	28.46	32.91	20.70	704.0	0.00	0.00	1540.3	85.9
1.4	28.36	32.97	20.78	700.4	.19	.00	1540.2	85.9
2.8	28.26	33.04	20.86	692.4	.23	.00	1540.1	60.7
3.4	28.26	33.04	20.86	692.5	.24	.00	1540.1	35.2
5.9	28.26	33.11	20.91	687.7	.41	.01	1540.2	35.2
7.6	28.26	33.11	20.91	687.8	.53	.02	1540.3	0.0
8.4	28.26	33.11	20.91	687.9	.58	.02	1540.3	0.0

HYDROGRAPHIC CAST DATA STATION 5 / TRANSECT 1
9/15/76 1447 CST SAMPLE CODE QFT

DEPTH	TEMP	SALIN	SIGMA T	SVA	DELTA D	POT EN	SOUND VEL	BV FRQ
0.0	28.66	35.12	22.99	488.7	0.00	0.00	1544.0	49.3
5.2	28.61	36.15	23.09	479.5	.25	.01	1544.2	34.6
8.9	28.63	36.15	23.09	479.7	.43	.02	1544.3	0.0
13.9	28.65	36.15	23.09	480.0	.67	.05	1544.4	0.0
18.5	28.80	35.94	22.86	502.1	.90	.09	1544.6	0.0
22.9	28.90	35.93	22.82	506.0	1.12	.13	1544.9	0.0
27.4	28.90	35.93	22.82	506.3	1.35	.19	1545.0	47.5
33.2	28.65	36.18	23.03	486.2	1.64	.28	1544.6	112.4
38.5	26.93	36.39	23.92	401.7	1.87	.37	1540.7	122.4
43.7	25.58	36.45	24.31	364.9	2.07	.45	1538.3	79.8
48.3	24.84	36.44	24.44	352.6	2.23	.53	1536.6	78.0
53.6	24.29	36.59	24.61	337.5	2.41	.62	1535.6	70.1
58.2	23.90	36.53	24.65	333.6	2.56	.70	1534.9	64.9
63.8	22.90	36.58	25.10	292.4	2.73	.81	1532.6	85.4
68.2	21.93	36.54	25.44	267.8	2.84	.89	1530.1	79.0
73.4	21.10	36.50	25.66	257.2	2.97	.98	1527.8	61.7
77.9	20.90	36.58	25.75	224.9	3.09	1.06	1527.7	0.0
78.8	20.90	32.50	22.87	502.8	3.11	1.09	1523.3	0.0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SIGMA-T Δ
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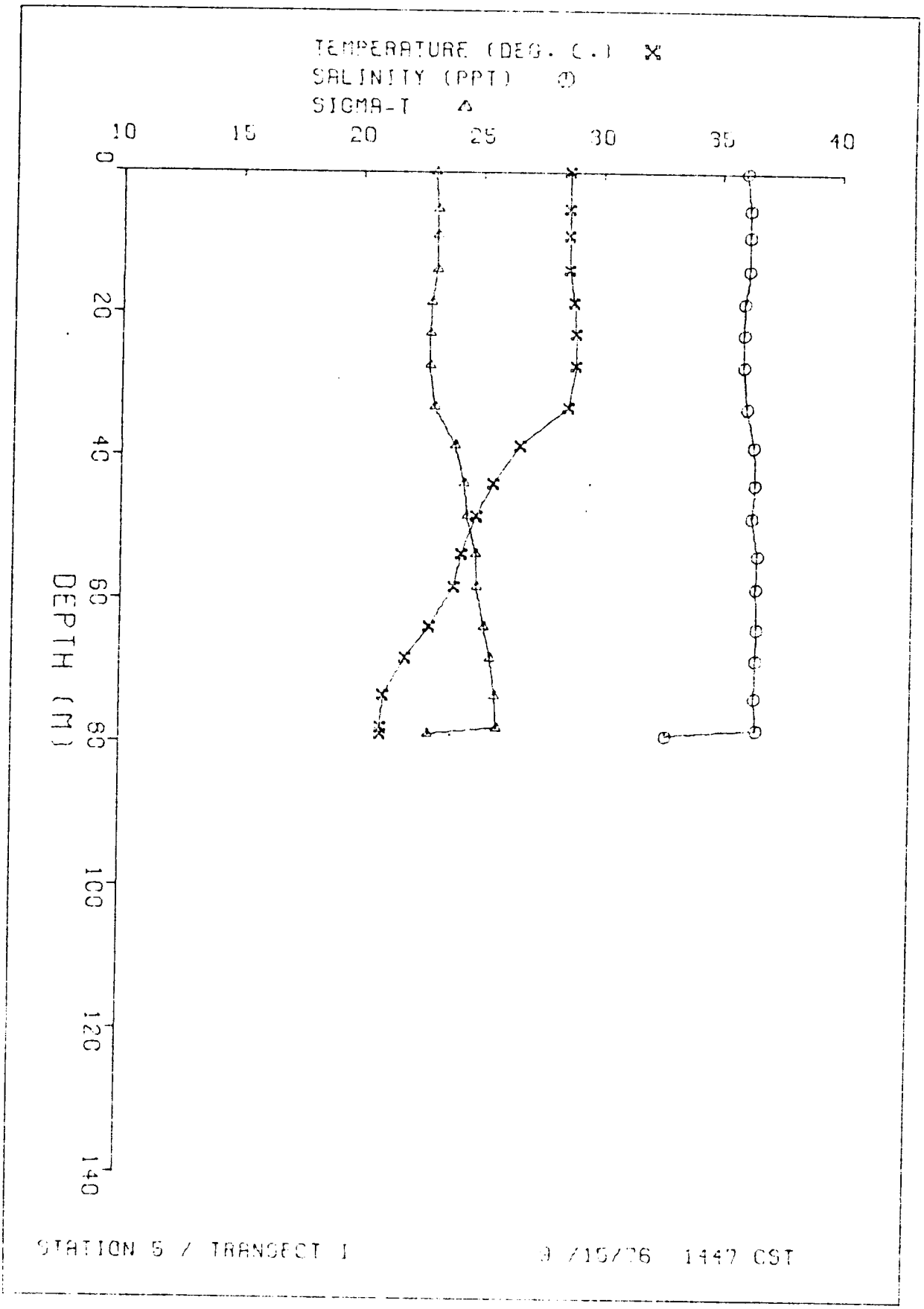
DEPTH (M)
STATION 4 / TRANSECT 1
9/15/76 0825 CST


TEMPERATURE (DEG. C.) X
SALINITY (PPT) ⊙
SIGMA-T △
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100
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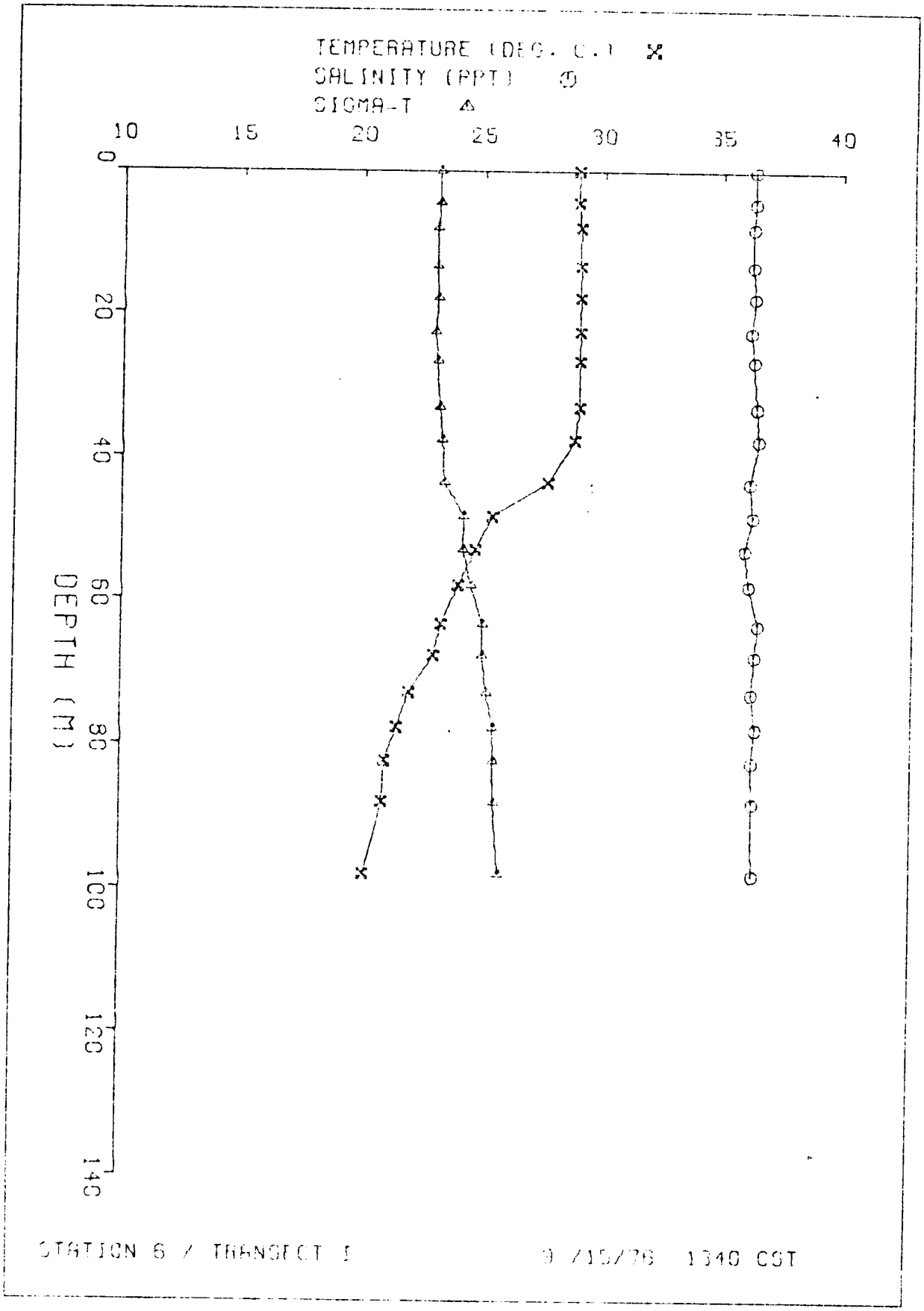
140
DEPTH (M)
STATION 5 / TRANSECT I
3/15/76 1447 CST

HYDROGRAPHIC CAST DATA STATION 3 / TRANSECT 1

9/15/76 1345 CST SAMPLE CODE 0F0

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	28.90	36.31	23.10	477.6	0.00	0.00	1544.9	0.0
4.4	28.90	36.31	23.10	477.1	.21	.00	1545.0	0.0
7.9	29.00	36.23	23.01	486.9	.38	.02	1545.2	0.0
13.4	29.00	36.23	23.01	487.2	.65	.04	1545.3	26.3
17.8	29.00	36.30	23.06	482.6	.86	.06	1545.4	0.0
22.6	29.00	36.16	22.96	492.7	1.10	.13	1545.4	15.3
26.6	29.00	36.29	23.06	483.2	1.29	.18	1545.6	50.4
33.0	29.00	36.43	23.16	473.9	1.60	.27	1545.8	51.7
37.6	28.60	36.51	23.29	462.0	1.81	.35	1545.6	52.6
43.5	27.70	36.16	23.39	452.5	2.09	.46	1542.9	108.2
48.3	25.46	36.28	24.21	374.0	2.29	.55	1538.0	100.7
53.0	24.70	36.55	24.18	377.6	2.46	.64	1536.1	61.7
58.0	24.00	36.13	24.52	344.8	2.64	.75	1534.7	100.9
63.4	23.30	36.54	25.04	295.9	2.81	.85	1533.5	75.3
67.8	23.00	36.40	25.02	297.6	2.95	.94	1532.7	47.3
72.9	22.30	36.38	25.22	279.4	3.09	1.05	1530.1	77.5
77.7	21.50	36.47	25.50	252.5	3.23	1.15	1529.1	63.1
82.3	21.10	36.34	25.53	249.4	3.34	1.24	1527.7	31.8
88.0	20.92	36.38	25.58	244.7	3.43	1.37	1527.7	44.2
98.0	20.10	36.40	25.81	223.6	3.71	1.59	1525.8	52.8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SALINITY (PPT)
SIGMA-T
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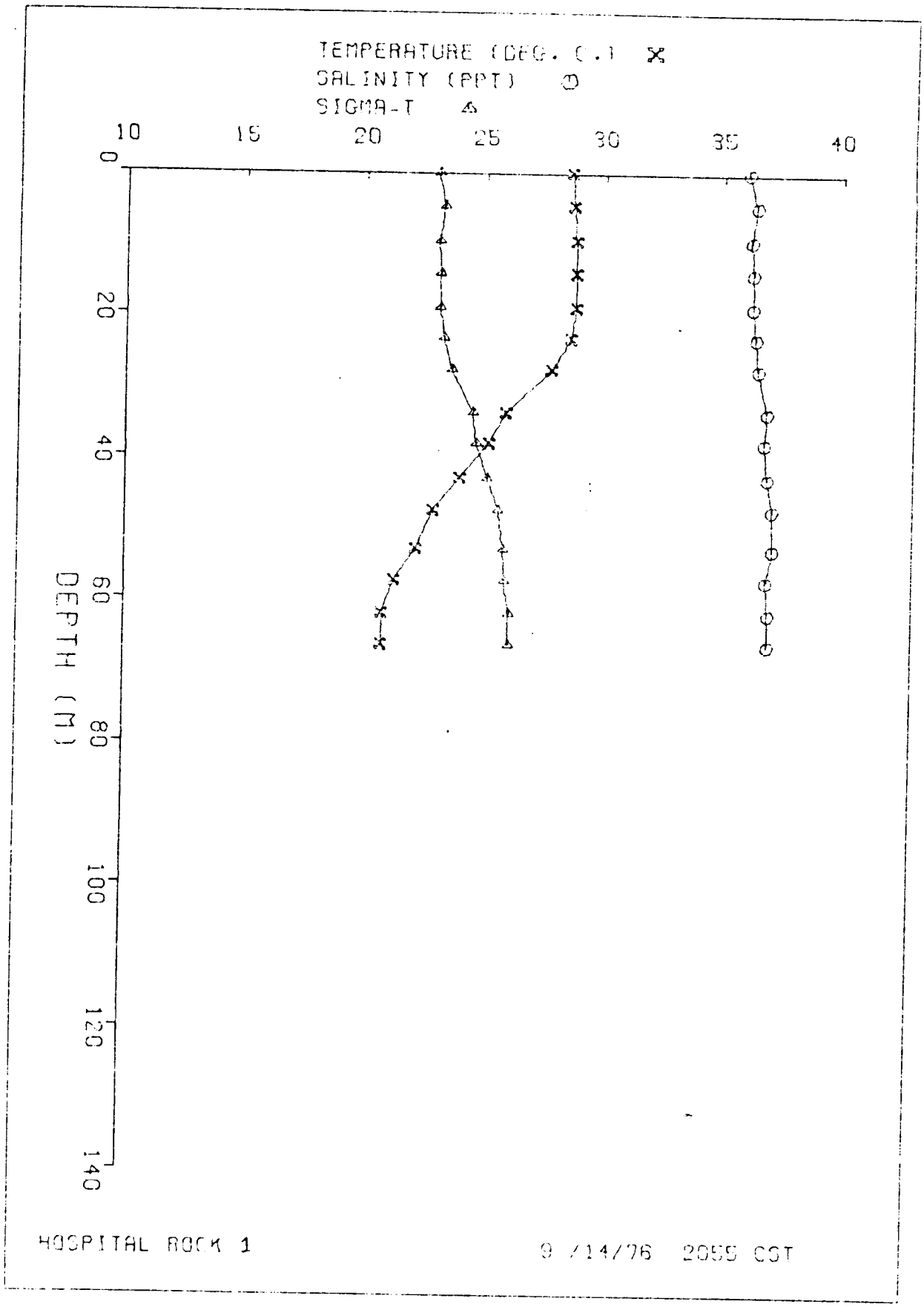
DEPTH (M)
STATION 6 / TRANSECT 5
9/15/78 1340 CST

HYDROGRAPHIC CAST DATA HOSPITAL ROCK #1
9/14/76 2054 CST SAMPLE CODE 00P

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT LN	SOUND VEL	BV FRQ
0.0	28.56	36.42	23.00	467.4	0.00	0.00	1543.9	75.8
4.7	28.66	36.35	23.22	467.0	.22	.01	1544.6	21.1
9.6	28.79	36.14	23.03	485.6	.46	.02	1544.5	0.0
14.3	28.76	36.21	23.08	481.0	.69	.05	1544.8	25.4
19.1	28.76	36.21	23.08	481.3	.92	.09	1544.9	50.2
23.4	28.50	36.35	23.25	464.6	1.12	.13	1544.7	86.2
27.8	27.76	36.47	23.80	431.6	1.32	.19	1543.1	119.2
33.8	25.46	36.56	24.50	345.7	1.55	.26	1539.4	104.2
38.1	25.16	36.75	24.64	332.8	1.70	.31	1537.8	88.9
43.0	23.96	36.99	25.11	284.2	1.85	.38	1535.2	112.1
47.5	22.85	37.11	25.59	242.3	1.97	.43	1532.8	96.1
53.0	22.15	37.15	25.82	223.7	2.10	.50	1531.2	57.3
57.4	21.26	36.98	25.87	218.0	2.19	.55	1528.6	59.8
62.0	20.76	36.98	26.09	199.8	2.29	.61	1527.5	53.5
66.3	20.76	36.96	26.09	196.1	2.37	.66	1527.6	0.0

HYDROGRAPHIC CAST DATA SOUTHERN BANK #1
9/14/76 1336 CST SAMPLE CODE 01V

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT LN	SOUND VEL	BV FRQ
0.0	28.59	35.73	22.77	509.0	0.00	0.00	1543.7	35.1
5.1	28.59	35.89	22.82	504.6	.24	.01	1543.8	43.4
9.4	28.49	35.87	22.91	496.4	.47	.02	1543.8	50.7
14.3	28.49	36.11	23.02	486.8	.71	.05	1544.0	24.2
18.9	28.49	35.94	22.96	492.1	.94	.09	1544.0	116.9
23.5	26.69	36.66	24.03	396.3	1.14	.13	1541.4	139.4
28.1	25.69	36.58	24.29	366.2	1.32	.18	1539.1	83.3
33.8	24.49	36.44	24.61	335.6	1.52	.24	1535.8	100.1
39.2	23.49	36.86	25.18	281.6	1.68	.30	1533.9	104.6
44.1	22.79	36.99	25.53	249.4	1.81	.36	1532.5	59.0
48.8	22.29	36.71	25.46	255.4	1.93	.42	1530.9	42.1
53.8	21.79	36.61	25.66	234.7	2.06	.48	1529.9	78.8
58.8	21.09	36.93	25.96	208.0	2.17	.55	1528.3	74.6
64.2	20.29	36.82	26.14	192.6	2.27	.61	1525.6	93.2
69.0	18.79	37.14	26.66	142.2	2.35	.67	1522.3	98.6
73.9	18.59	37.36	26.91	119.6	2.42	.71	1522.1	49.3
77.0	18.49	37.32	26.87	122.2	2.45	.74	1521.8	0.0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SIGMA-T Δ
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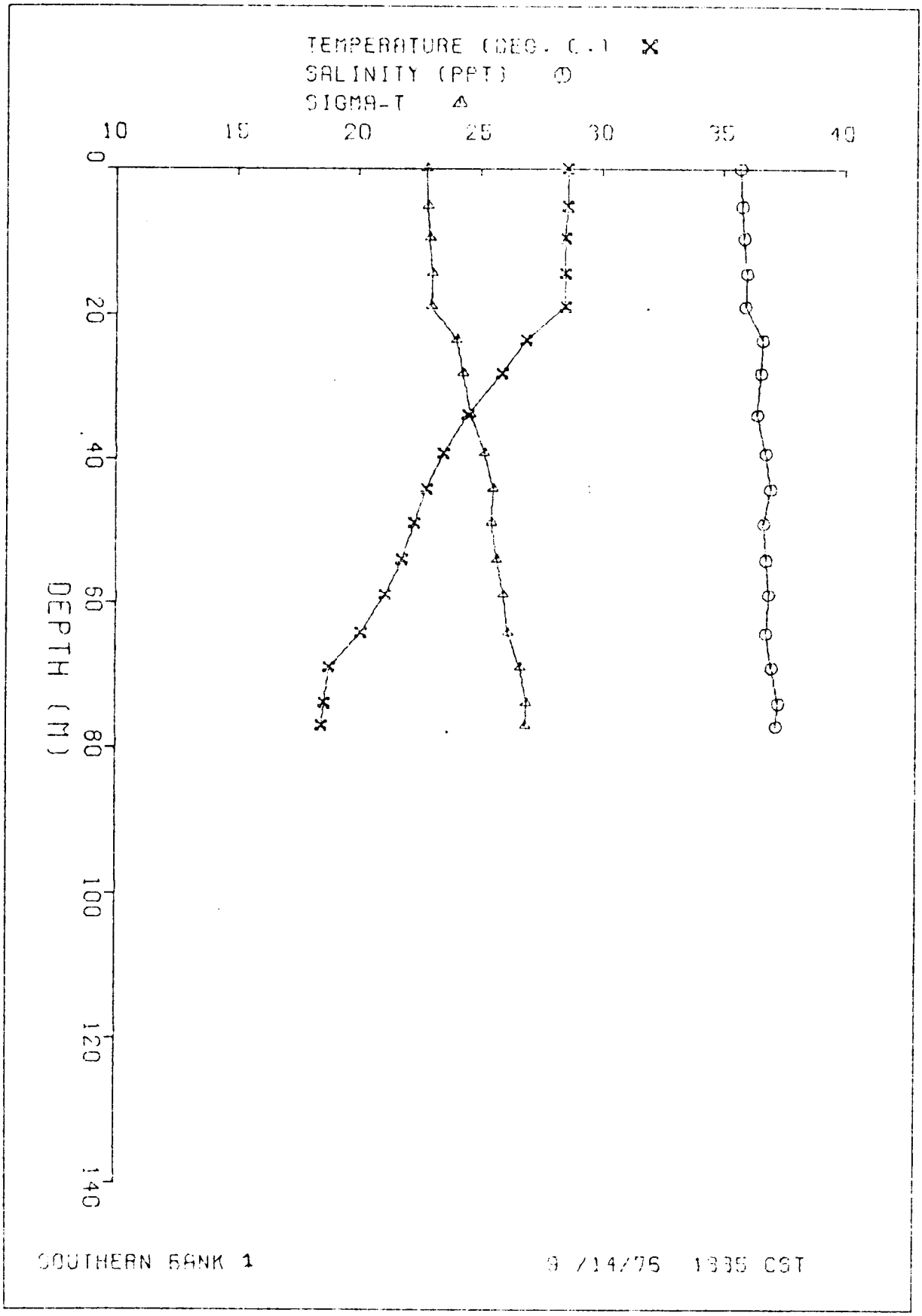
DEPTH (M)
HOSPITAL ROCK 1
9/14/76 2055 CST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SALINITY (PPT) O
SIGMA-T Δ
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120
140
DEPTH (M)
SOUTHERN BANK 1
9/14/76 1335 CST

HYDROGRAPHIC CAST DATA STATION 1 / TRANSECT II
9/14/76 1640 CST SAMPLE CODE QFV

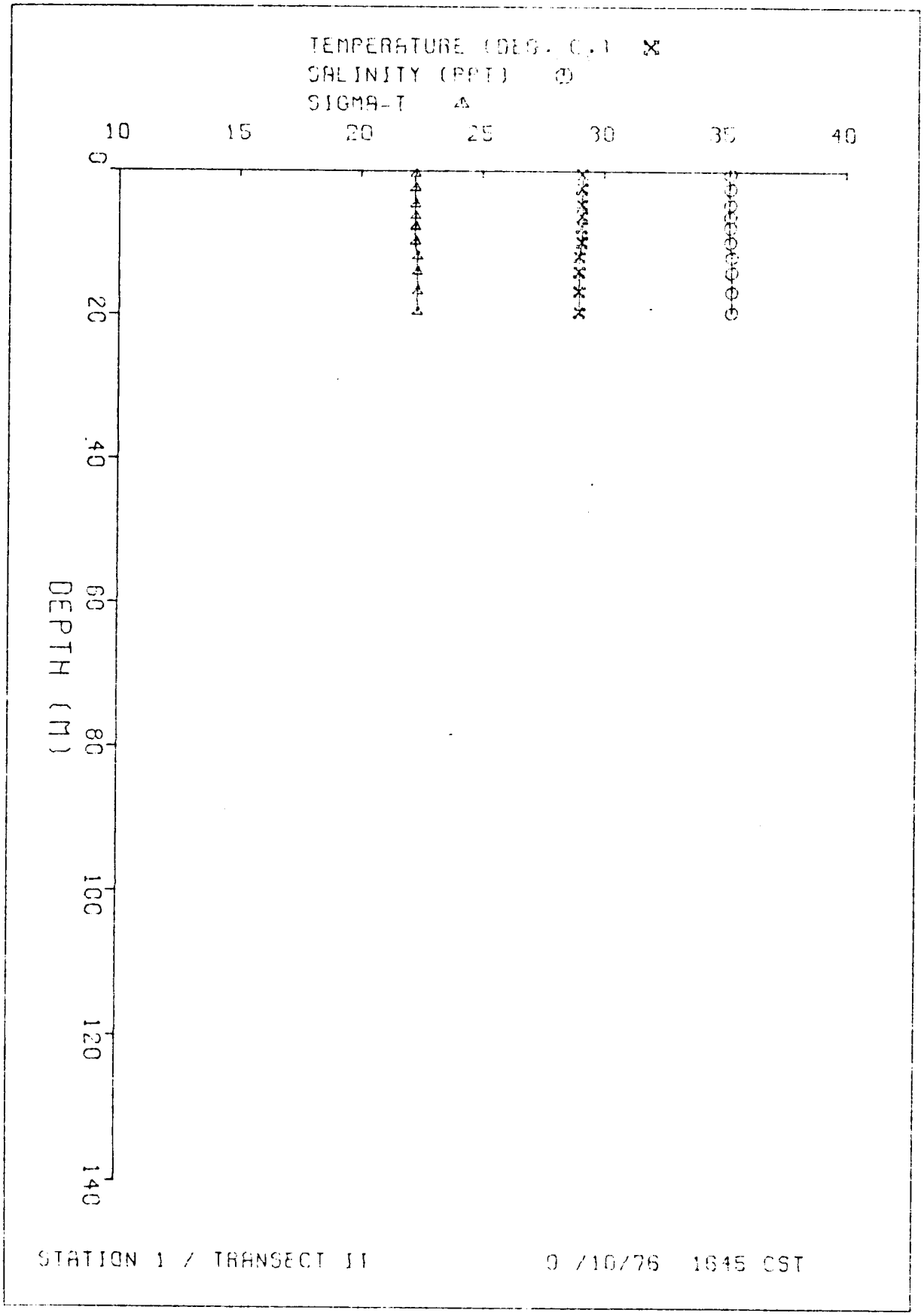
DEPTH	TEMP	SALIN	SIGMA T	SVA	DELTA D	POT EN	SOUND VEL	BV FRQ
.5	29.1[illegible]	35.24	22.24	560.5	0.00	0.00	1544.2	0.0
2.5	29.10	35.24	22.24	560.9	.11	.00	1544.2	0.0
4.7	29.1[illegible]	35.24	22.23	561.0	.24	.01	1544.3	0.0
6.4	29.1[illegible]	35.24	22.23	561.1	.33	.01	1544.3	0.0
7.9	29.1[illegible]	35.24	22.23	561.2	.41	.02	1544.3	0.0
9.9	29.1[illegible]	35.24	22.23	561.3	.53	.03	1544.4	50.8
12.0	29.0[illegible]	35.31	22.32	553.0	.64	.04	1544.3	50.8
14.1	29.0[illegible]	35.31	22.32	553.2	.76	.05	1544.3	0.0
16.8	29.01	35.31	22.32	553.3	.91	.06	1544.3	0.0
19.7	29.0[illegible]	35.31	22.32	554.5	1.07	.10	1544.4	0.0

HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT II
9/14/76 1621 CST SAMPLE CODE QHH

DEPTH	TEMP	SALIN	SIGMA T	SVA	DELTA D	POT EN	SOUND VEL	BV FRQ
0.0	28.74	35.[illegible]1	22.93	493.9	0.00	0.00	1544.3	0.0
4.3	28.74	36.[illegible]1	22.93	494.4	.21	.00	1544.3	0.0
9.1	28.74	36.[illegible]1	22.93	494.7	.45	.02	1544.4	21.1
14.0	28.64	35.[illegible]1	22.97	491.5	.69	.05	1544.3	2.9
19.3	28.74	36.[illegible]6	22.93	495.4	.95	.09	1544.6	0.0
23.4	28.64	35.[illegible]3	22.84	504.1	1.14	.14	1544.8	69.8
27.9	28.04	36.18	23.29	461.1	1.37	.20	1543.4	104.1
33.7	27.44	36.49	23.72	421.2	1.63	.28	1542.6	105.5
38.5	25.44	36.[illegible]2	24.23	372.0	1.82	.35	1538.0	109.9
43.5	24.14	36.39	24.68	329.5	2.00	.42	1535.1	86.6
47.0	23.[illegible]4	36.34	24.79	319.0	2.11	.47	1533.9	82.6

HYDROGRAPHIC CAST DATA STATION 4 / TRANSECT II
9/[illegible]/76 231 CST SAMPLE CODE GKJ

DEPTH	TEMP	SALIN	SIGMA T	SVA	DELTA D	POT EN	SOUND VEL	BV FRQ
0.0	28.92	35.43	22.51	534.3	0.00	0.00	1544.1	0.0
1.0	28.92	35.46	22.46	537.7	.14	.00	1544.1	0.0
5.8	28.92	35.46	22.46	537.3	.31	.01	1544.2	0.0
8.0	29.02	35.42	22.32	553.3	.43	.02	1544.3	0.0
11.5	29.[illegible]2	35.[illegible]2	22.47	538.8	.62	.04	1544.5	93.8
15.5	28.92	35.[illegible]9	22.56	532.7	.84	.07	1544.5	22.4
19.3	28.92	35.52	22.51	535.8	1.04	.10	1544.5	110.3
23.8	28.82	36.51	23.45	445.7	1.24	.15	1544.3	130.9
26.7	28.22	36.73	23.04	427.4	1.39	.18	1544.4	88.9
29.3	27.52	36.[illegible]3	23.80	412.4	1.52	.21	1542.8	86.8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SALINITY (PPT) @
SIGMA-T A
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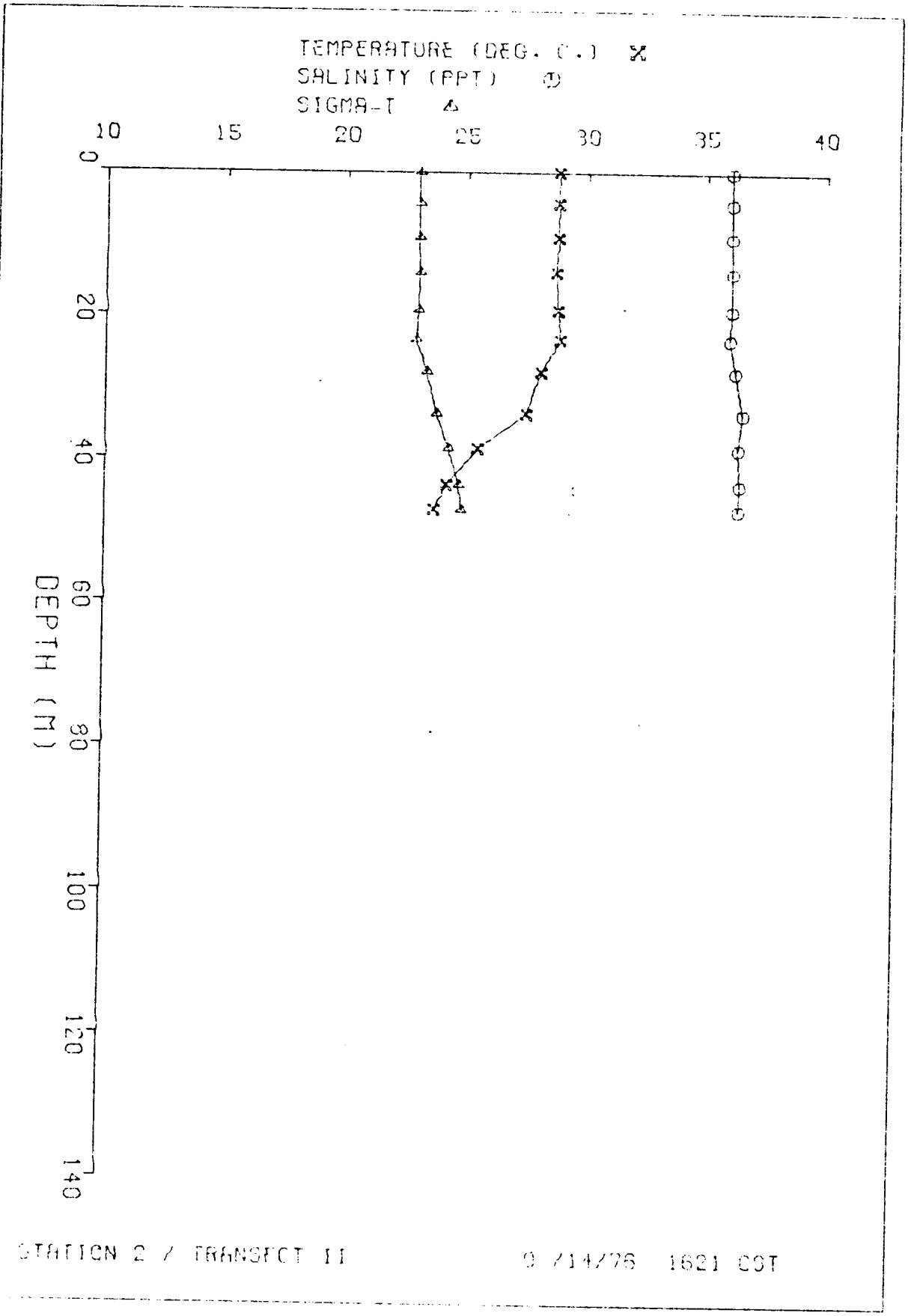
DEPTH (M)
STATION 1 / TRANSECT II
0 /10/76 1645 CST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SIGMA-T △
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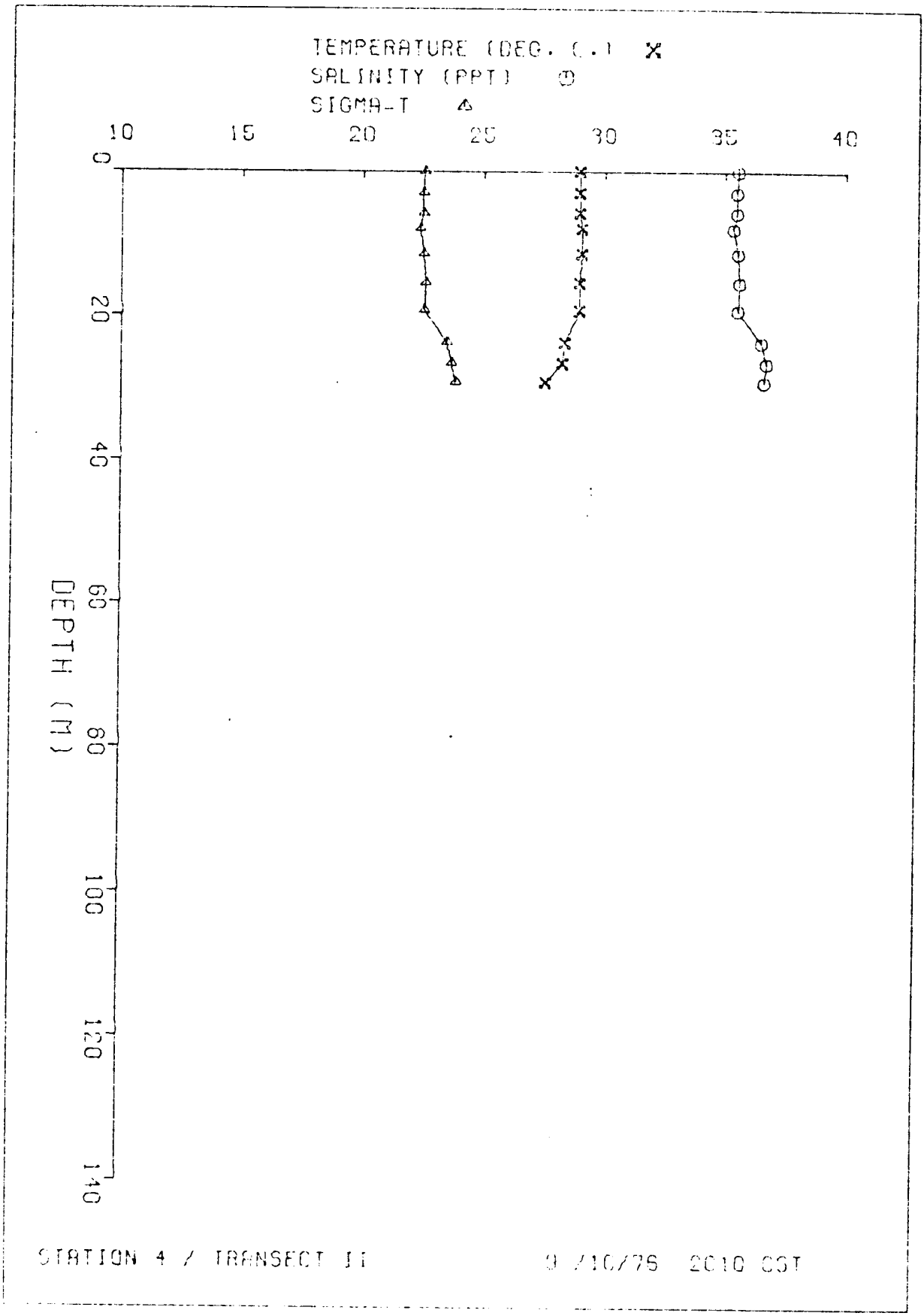
DEPTH (M)
STATION 2 / TRANSECT II
9/14/76 1621 CST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SALINITY (PPT) ⊕
SIGMA-T △
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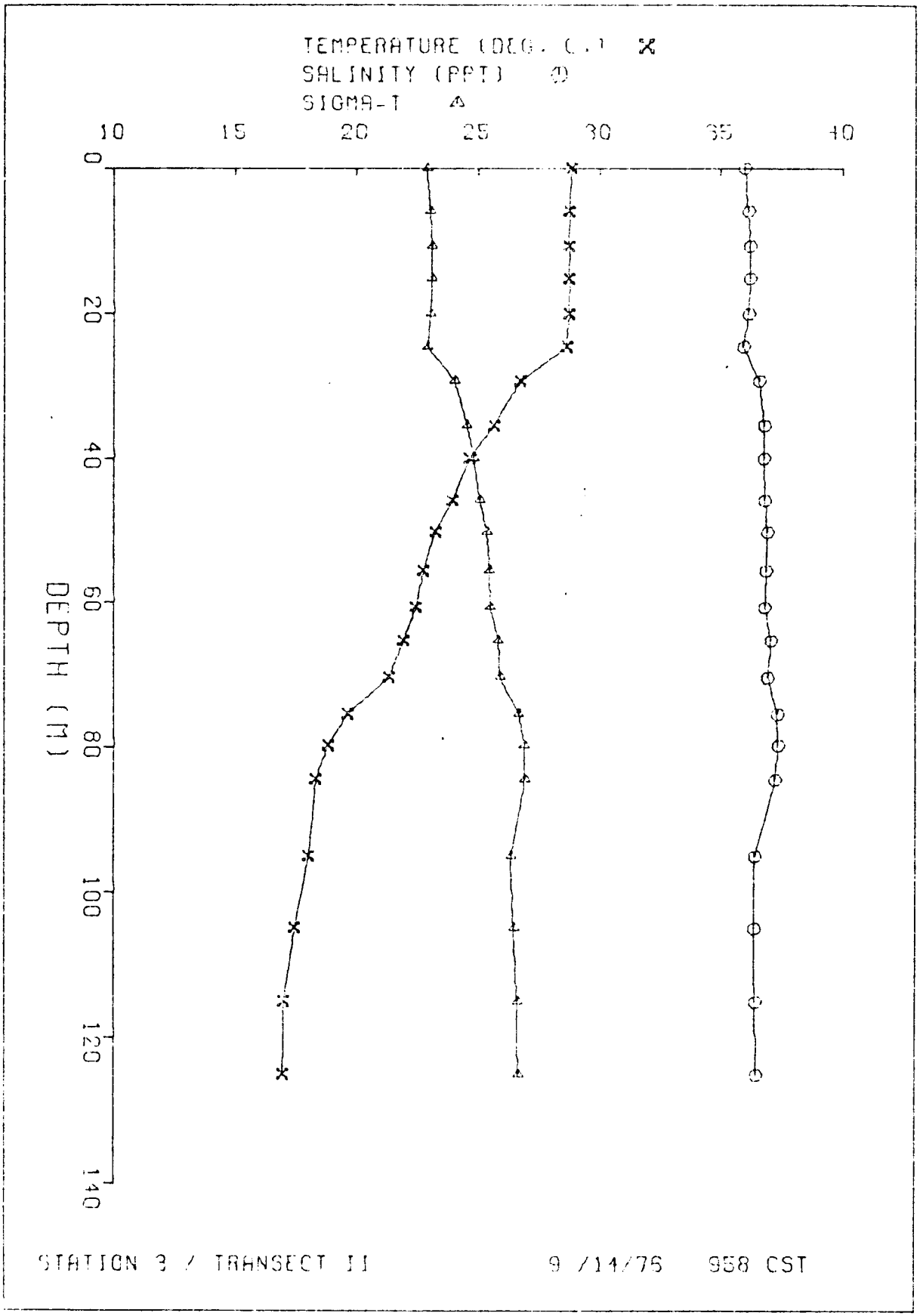
100
120
140
DEPTH (M)
STATION 4 / TRANSECT II
9/10/78 2010 CST

HYDROGRAPHIC CAST DATA STATION 3 / TRANSECT II
9/14/76 954 CST SAMPLE CODE 011

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	DV PRO
0.0	28.81	35.47	22.65	490.8	0.00	0.00	1544.4	54.1
5.9	28.71	36.11	23.02	485.0	.29	.01	1544.4	45.8
10.8	28.71	36.18	23.07	481.4	.53	.03	1544.6	25.0
15.3	28.71	36.18	23.07	481.7	.74	.06	1544.7	0.0
20.1	28.71	36.11	23.02	486.9	.98	.10	1544.7	0.0
24.6	28.81	35.96	22.90	498.6	1.20	.15	1544.3	114.1
29.3	28.71	36.56	24.01	392.4	1.41	.21	1541.0	140.2
35.5	25.81	36.77	24.51	344.9	1.63	.28	1538.8	94.9
40.0	24.61	36.75	24.80	317.3	1.78	.34	1536.5	80.8
45.8	23.91	36.76	25.04	295.0	1.94	.42	1535.0	81.3
50.2	23.21	36.89	25.33	267.4	2.09	.48	1533.5	72.8
55.5	22.71	36.84	25.44	257.7	2.22	.55	1532.3	40.5
60.8	22.41	36.76	25.47	254.4	2.36	.64	1531.5	70.5
65.4	21.91	37.3	25.81	222.5	2.47	.71	1530.6	73.3
70.4	21.31	36.96	25.80	218.2	2.58	.78	1529.0	101.5
75.4	19.81	37.01	26.04	143.6	2.67	.85	1525.0	113.2
79.7	18.81	37.24	26.80	121.5	2.73	.89	1522.9	59.4
84.4	18.31	37.19	26.89	120.4	2.79	.94	1521.4	0.0
95.0	18.00	36.65	26.52	174.4	2.94	1.09	1519.7	0.0
105.0	17.43	36.94	26.45	162.3	3.11	1.26	1518.1	41.1
115.0	16.99	36.80	26.50	149.1	3.26	1.44	1517.1	33.1
125.0	16.96	36.42	26.63	146.1	3.41	1.62	1517.2	20.7

HYDROGRAPHIC CAST DATA STATION 5 / TRANSECT II
9/14/76 142 CST SAMPLE CODE 0AA

DEPTH	TEMP	SALIN.	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	DV PRO
0.0	28.50	33.72	22.77	509.2	0.00	0.00	1543.6	30.5
4.8	28.48	33.73	22.91	500.2	.24	.01	1543.5	21.3
9.4	28.43	35.73	22.91	500.5	.48	.02	1543.6	0.0
14.6	28.46	35.76	22.75	511.7	.71	.05	1543.6	23.1
19.1	28.46	35.73	22.86	502.1	.97	.09	1543.8	111.7
23.5	27.16	36.25	23.85	428.1	1.17	.14	1541.6	143.2
27.6	25.46	36.59	24.27	397.6	1.34	.19	1538.0	112.8
34.9	24.46	36.53	24.56	329.2	1.59	.26	1535.9	100.5
38.6	23.46	36.46	25.08	291.2	1.71	.31	1533.7	87.7
43.3	23.18	36.41	25.15	284.2	1.84	.38	1532.7	45.2
48.4	22.68	36.46	25.24	276.2	1.99	.43	1530.6	77.6
53.8	21.48	36.36	25.07	235.9	2.13	.50	1528.9	91.9
58.3	21.28	36.42	25.30	223.2	2.23	.56	1528.0	89.7
64.0	19.38	36.18	25.36	187.9	2.34	.63	1523.7	43.7
68.6	19.08	36.14	25.34	181.6	2.43	.69	1524.2	0.0
73.3	19.78	36.13	25.31	203.7	2.52	.76	1524.5	0.0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SALINITY (PPT) O
SIGMA-T Δ
10
15
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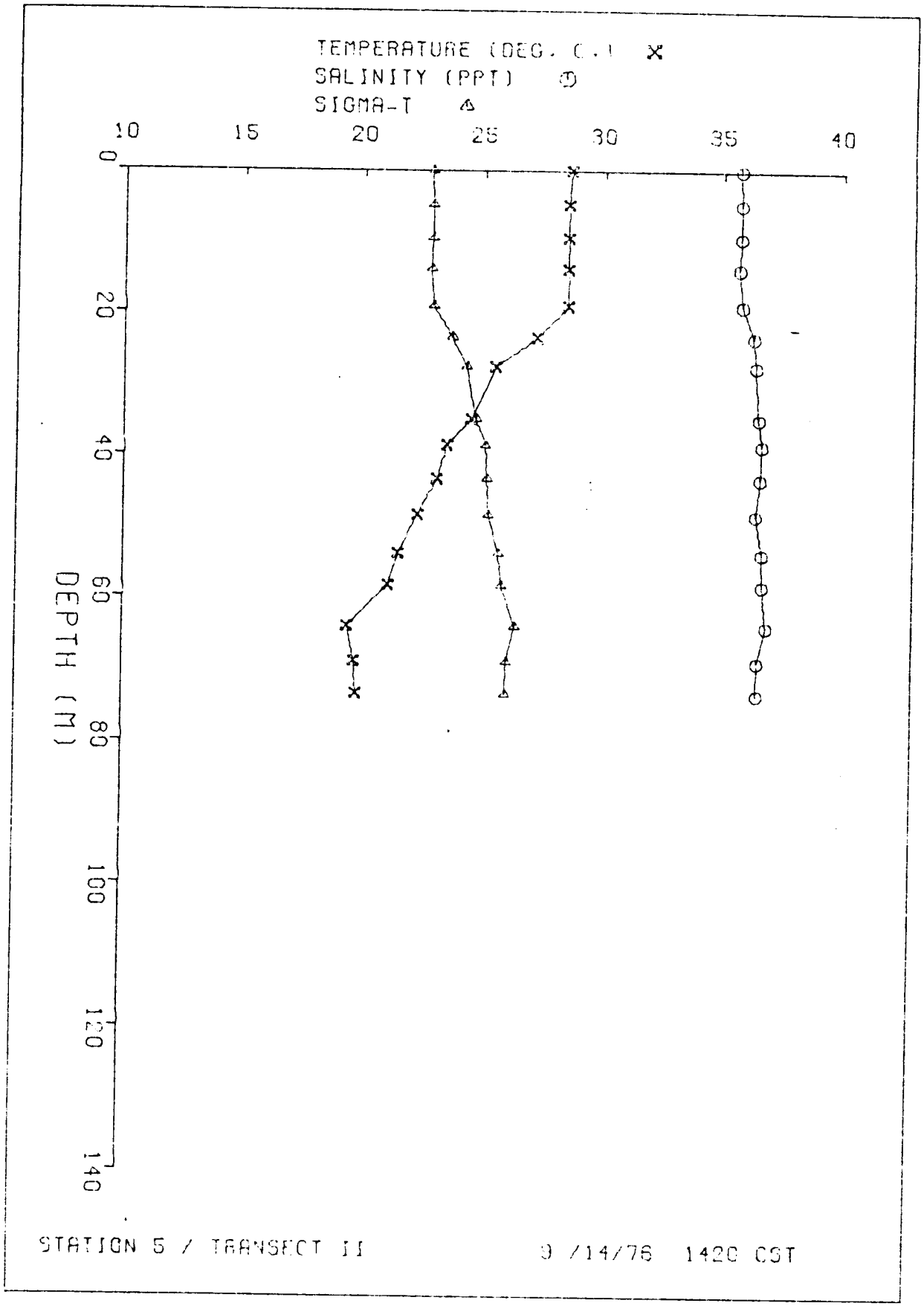
100
120
140
DEPTH (M)
STATION 3 / TRANSECT II
9 /14/76 958 CST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SALINITY (PPT)
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15
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25
30
35
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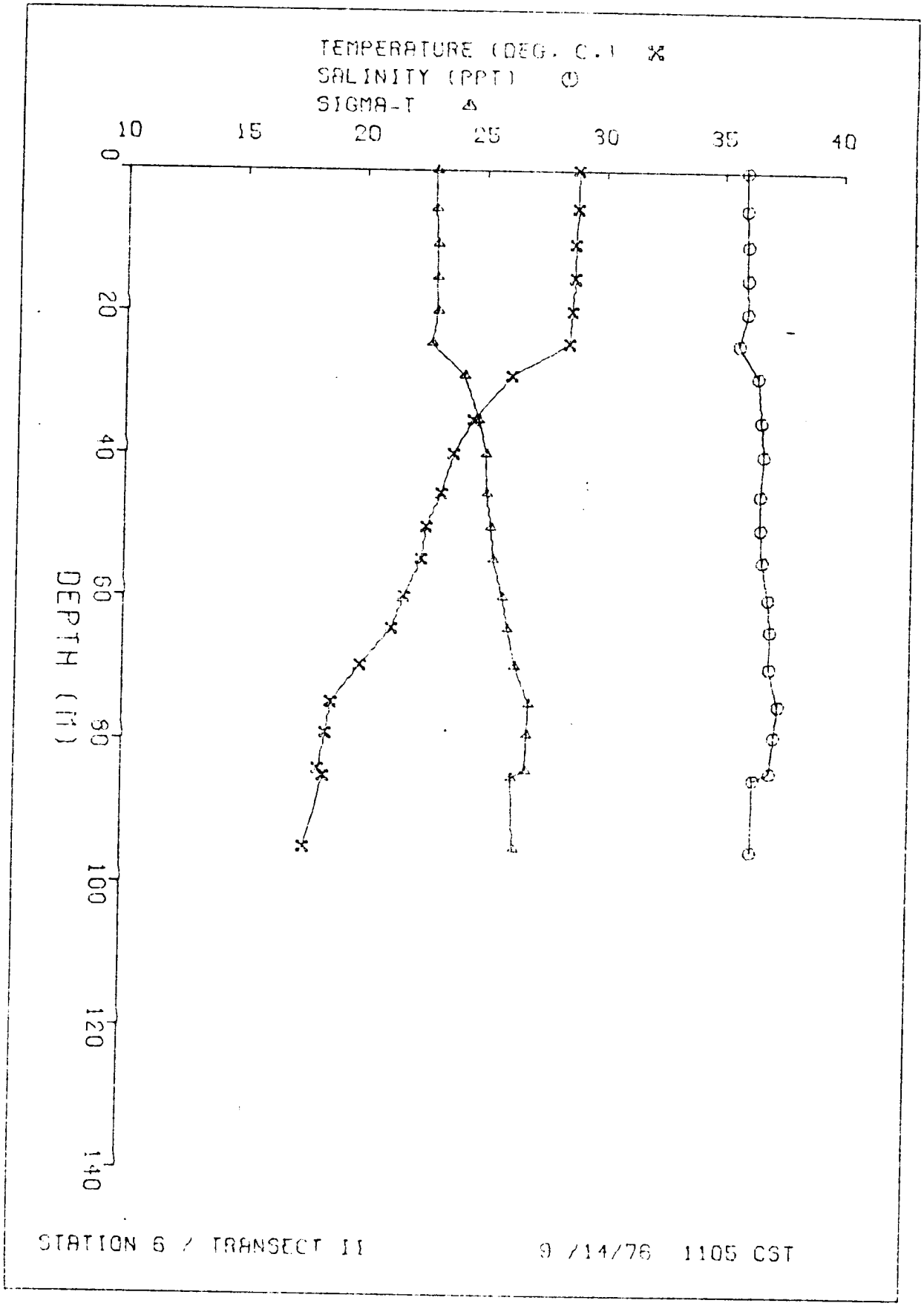
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 5 / TRANSECT II
9 /14/76 1420 CST

HYDROGRAPHIC CAST DATA STATION 4 / TRANSECT II

9/14/76 1105 CST SAMPLE CODE CAL

DEPTH	TEMP	SALIN	SIGMA T	SVA	DELTA D	POT EN	SOUND VEL	BV FRQ
0.0	28.81	35.92	22.85	502.2	0.00	0.00	1544.3	0.0
5.3	28.81	35.92	22.84	502.9	.27	.01	1544.4	33.1
10.2	28.71	35.99	22.93	494.6	.51	.03	1544.4	33.1
15.1	28.71	35.99	22.93	495.0	.75	.06	1544.4	21.4
19.8	28.51	36.10	22.97	491.7	.99	.10	1544.3	0.0
24.3	28.51	35.86	22.74	513.2	1.21	.15	1543.8	127.0
28.8	26.11	36.48	24.14	380.3	1.41	.20	1539.5	159.0
35.0	24.51	36.64	24.75	322.1	1.63	.27	1536.1	101.6
39.8	23.71	36.76	25.08	291.1	1.77	.33	1534.4	69.1
45.4	23.21	36.83	25.13	286.6	1.94	.40	1533.1	55.8
50.1	22.61	36.85	25.32	268.2	2.07	.47	1531.7	65.1
54.6	22.41	36.74	25.45	256.7	2.18	.53	1531.4	79.8
59.9	21.71	37.01	25.85	218.7	2.31	.60	1530.0	88.0
64.3	21.21	37.11	26.07	198.2	2.40	.66	1528.9	84.1
69.5	19.91	37.10	26.40	166.1	2.50	.73	1525.5	106.1
74.7	18.71	37.40	27.01	108.4	2.57	.78	1522.7	78.7
79.0	18.51	37.32	26.94	115.4	2.62	.82	1522.0	0.0
84.0	18.21	37.10	26.90	119.9	2.69	.87	1521.1	0.0
85.0	18.44	36.47	26.31	175.4	2.69	.88	1520.9	0.0
95.0	17.65	36.40	26.45	162.5	2.84	1.04	1518.7	41.4


TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ○
SIGMA-T △
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15
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0
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40
60
80
100
120
140
DEPTH (FT)
STATION 6 / TRANSECT II
9 /14/76 1105 CST

HYDROGRAPHIC CAST DATA STATION 1 / TRANSECT III
9/12/76 1000 CST SAMPLE CODE QKM

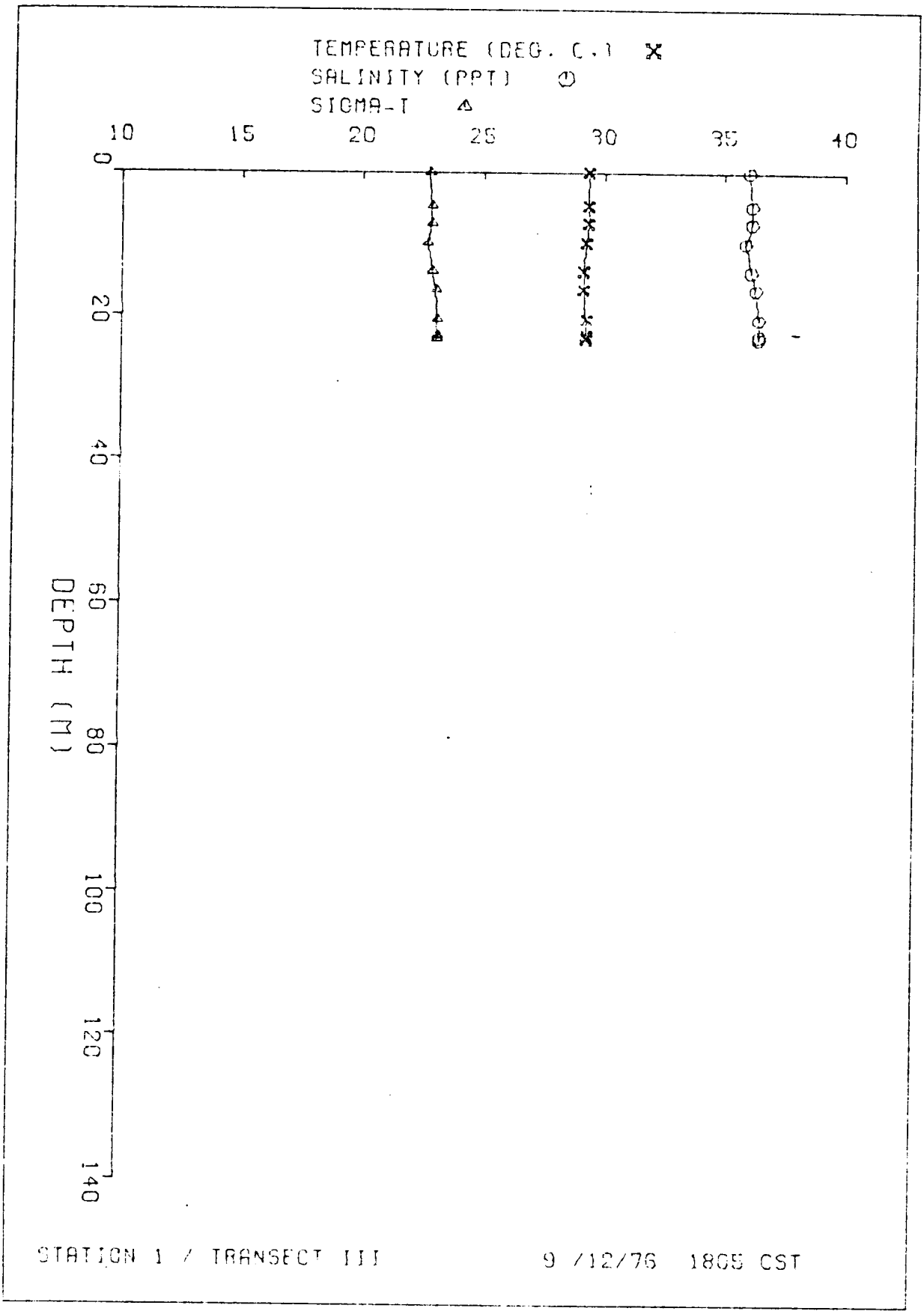
DEPTH	TEMP	SALIN	SIGMA t	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	29.31	35.48	22.72	514.0	0.00	0.00	1545.4	52.2
4.6	29.31	35.12	22.62	504.8	.23	.01	1545.7	36.7
7.1	29.31	35.12	22.62	504.9	.36	.01	1545.7	0.0
9.8	29.31	35.25	22.66	507.0	.51	.03	1545.3	0.0
13.9	29.11	35.16	22.65	503.0	.71	.05	1545.3	80.8
16.5	29.11	35.20	23.00	488.5	.84	.07	1545.6	67.8
20.6	29.21	35.39	23.06	482.6	1.04	.11	1546.0	30.7
22.9	29.21	35.39	23.06	482.8	1.15	.13	1546.1	0.0
23.3	29.21	35.39	23.06	482.8	1.17	.14	1545.1	0.0

HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT III
9/13/76 930 CST SAMPLE CODE QLY

DEPTH	TEMP	SALIN	SIGMA t	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	28.75	35.48	22.83	505.7	0.00	0.00	1544.2	0.0
7.1	28.75	35.61	22.75	507.3	.36	.01	1544.2	0.0
12.0	28.75	35.74	22.72	514.6	.61	.04	1544.2	24.1
16.7	28.75	35.87	22.83	505.8	.85	.07	1544.4	42.6
21.5	28.65	35.98	22.86	501.8	1.09	.12	1544.3	78.0
25.0	28.25	36.24	23.27	462.9	1.31	.17	1543.9	123.9
31.7	27.25	36.44	23.75	417.7	1.56	.25	1542.1	108.9
36.4	25.85	36.53	24.25	369.5	1.75	.31	1539.1	95.4
42.0	24.75	36.37	24.47	348.9	1.95	.39	1536.5	79.3
47.3	23.35	36.22	24.69	327.4	2.13	.47	1532.6	128.7
49.6	22.15	36.42	25.20	277.5	2.19	.51	1530.3	127.8
54.2	21.35	36.49	25.39	259.4	2.29	.56	1529.8	78.9
59.4	21.75	36.67	25.56	243.8	2.34	.59	1529.6	58.6
64.8	21.55	36.68	25.64	236.0	2.45	.65	1529.2	82.6
69.0	21.45	36.92	25.86	216.0	2.53	.68	1529.3	79.3
67.5	21.35	36.93	25.89	215.3	2.62	.76	1529.1	26.1

HYDROGRAPHIC CAST DATA STATION 4 / TRANSECT III
9/12/76 2130 CST SAMPLE CODE QPA

DEPTH	TEMP	SALIN	SIGMA t	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	29.3[illegible]	35.11	22.82	504.4	0.00	0.00	1545.6	0.0
2.9	29.30	35.11	22.82	504.9	.15	.00	1545.6	32.6
5.0	29.30	35.16	22.87	500.2	.29	.01	1545.7	32.6
8.4	29.3[illegible]	35.16	22.87	500.4	.42	.02	1545.4	36.7
10.7	29.3[illegible]	35.24	22.92	495.7	.54	.03	1545.9	52.8
12.9	29.30	35.31	22.97	491.9	.65	.04	1546.0	37.6
13.8	29.3[illegible]	35.31	22.97	491.0	.69	.05	1545.0	0.0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SIGMA-T △
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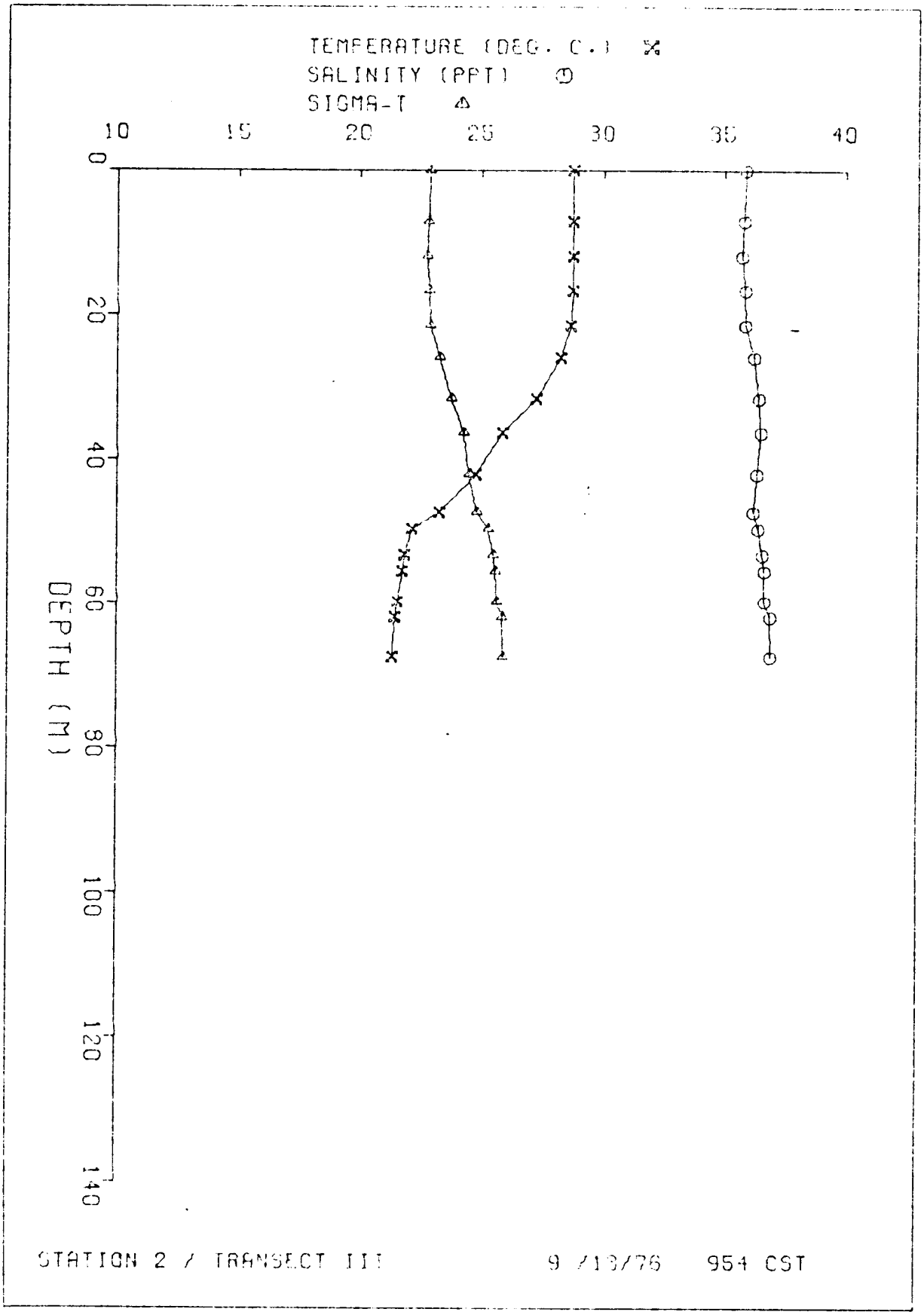
140
DEPTH (M)
STATION 1 / TRANSECT III
9 /12/76 1805 CST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SALINITY (PPT)
SIGMA-T
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25
30
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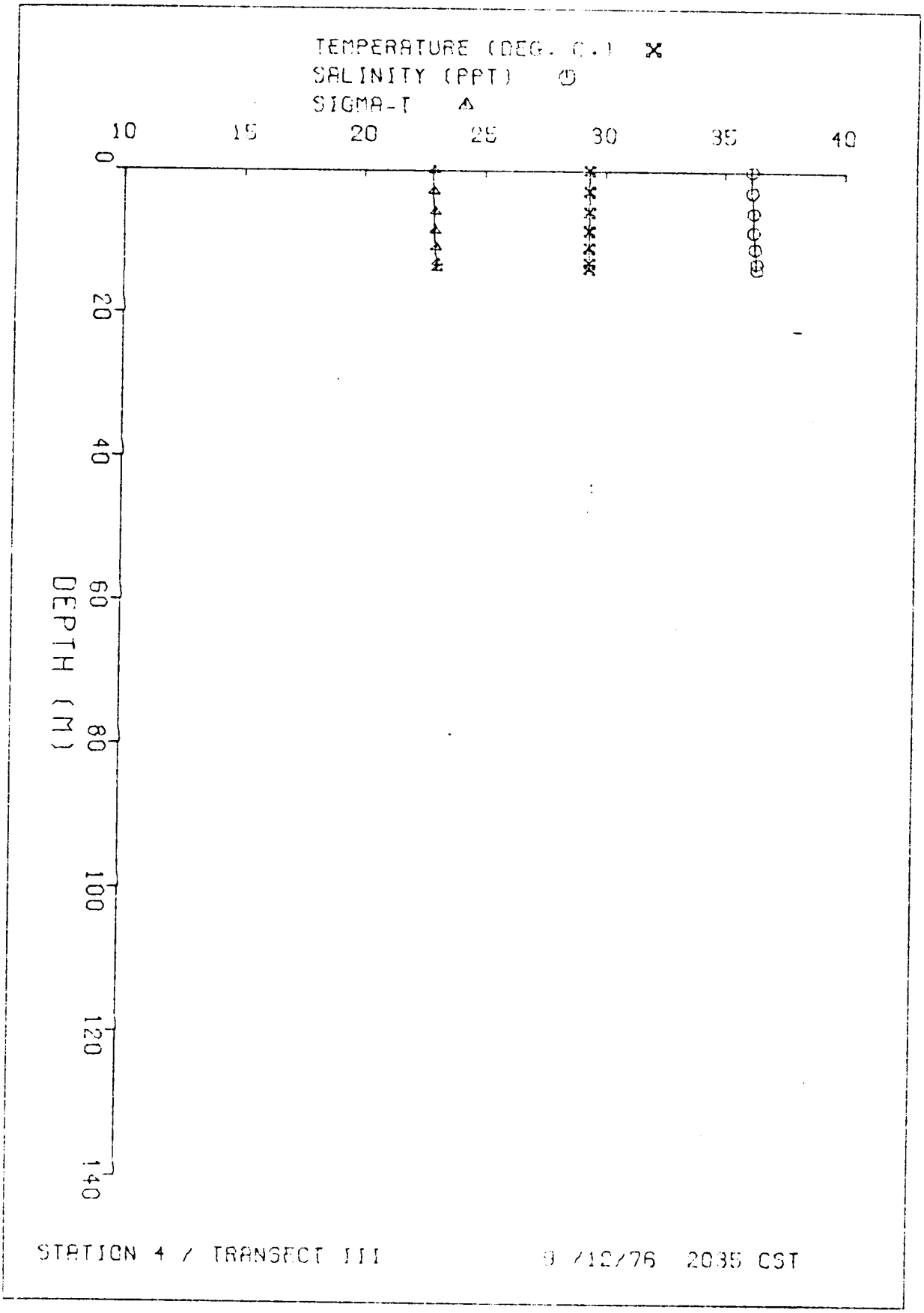
40
60
80
100
120
140
DEPTH (M)
STATION 2 / TRANSECT III
9/13/76 954 CST


TEMPERATURE (DEG. C.) X
SALINITY (PPT) ⊕
SIGMA-T Δ
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35
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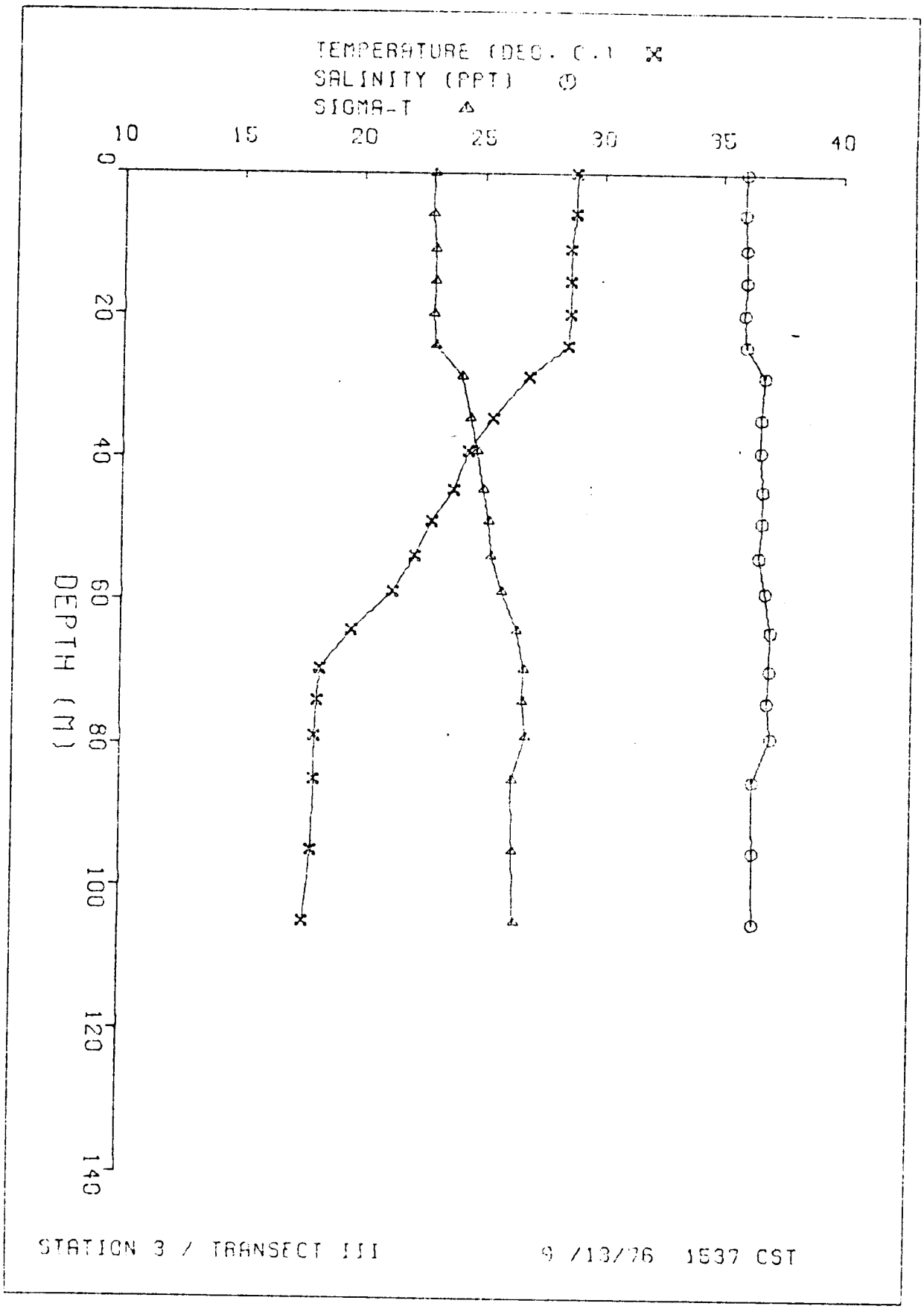
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 4 / TRANSECT III
9/12/76 2035 CST

HYDROGRAPHIC CAST DATA STATION 3 / TRANSECT III
9/13/76 1537 CST SAMPLE CODE 0NA

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	28.80	35.96	22.88	498.9	0.00	0.00	1544.4	0.0
5.7	28.80	35.89	22.83	504.5	.29	.01	1544.4	31.2
10.7	28.60	35.97	22.95	492.8	.54	.03	1544.1	39.1
15.3	28.60	35.97	22.95	493.1	.76	.06	1544.2	0.0
19.9	28.60	35.90	22.90	498.4	.99	.10	1544.2	22.2
24.4	28.50	35.97	22.99	490.1	1.21	.15	1544.1	131.6
28.7	26.90	36.77	24.10	384.5	1.40	.20	1541.6	141.8
34.5	25.40	36.64	24.48	347.9	1.61	.27	1538.2	89.0
39.1	24.40	36.62	24.77	320.3	1.77	.33	1535.9	93.0
44.5	23.80	36.73	25.03	295.8	1.93	.40	1534.6	79.8
48.9	22.90	36.70	25.27	273.0	2.06	.46	1532.5	68.9
53.8	22.20	36.58	25.38	262.9	2.19	.53	1530.6	84.2
58.8	21.30	36.50	25.64	238.9	2.31	.60	1528.7	114.4
64.2	19.60	37.10	26.49	158.0	2.42	.66	1524.6	104.9
69.5	18.30	37.07	26.80	124.3	2.49	.71	1521.0	55.9
74.0	18.20	36.99	26.76	132.1	2.55	.76	1520.7	38.1
78.9	18.10	37.16	26.92	117.4	2.61	.80	1520.7	0.0
85.0	18.20	36.43	26.30	176.3	2.70	.88	1519.9	0.0
95.0	17.99	36.45	26.41	166.6	2.87	1.04	1519.8	29.9
105.0	17.87	36.48	26.51	157.2	3.03	1.20	1519.0	35.5

HYDROGRAPHIC CAST DATA STATION 5 / TRANSECT III
9/13/76 2254 CST SAMPLE CODE 0PB

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	28.93	35.62	22.58	528.0	0.00	0.00	1544.3	0.0
5.5	29.23	35.67	22.51	534.4	.29	.01	1545.0	0.0
11.1	29.33	35.66	22.47	538.4	.59	.03	1545.3	0.0
14.9	29.33	35.66	22.47	538.6	.80	.06	1545.4	33.4
19.7	29.23	35.73	22.56	530.4	1.05	.11	1545.3	57.3
24.1	29.23	35.94	22.71	516.0	1.29	.16	1545.6	78.5
29.8	28.93	36.16	23.02	487.1	1.52	.22	1545.1	66.9
35.5	28.83	36.23	23.07	482.5	1.84	.33	1545.3	115.4
39.0	28.83	36.42	23.29	463.2	1.96	.37	1546.1	160.2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SALINITY (PPT) Φ
SIGMA-T Δ
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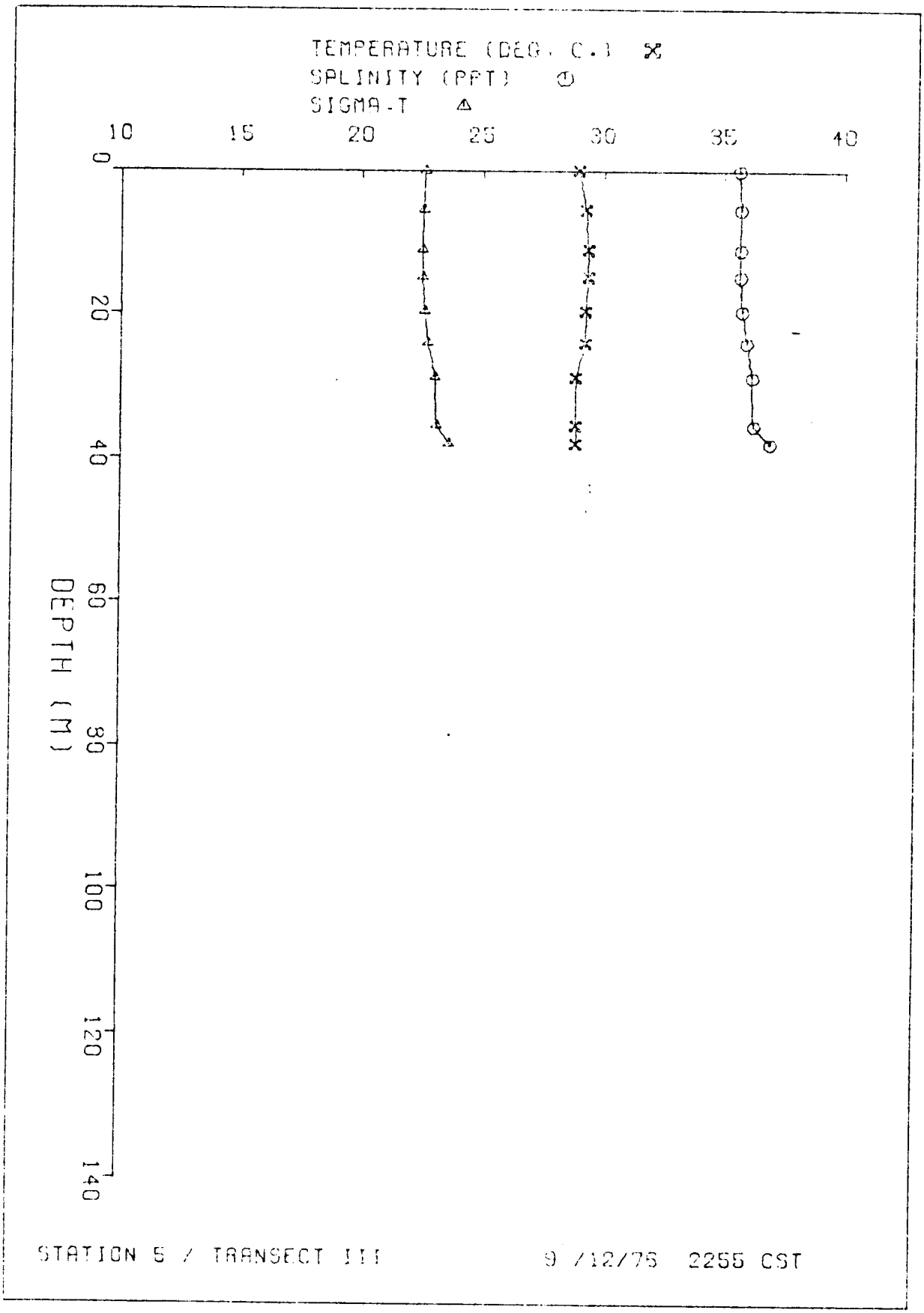
120
140
DEPTH (M)
STATION 3 / TRANSECT III
9 /13/76 1537 CST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SALINITY (PPT)
SIGMA-T
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15
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0
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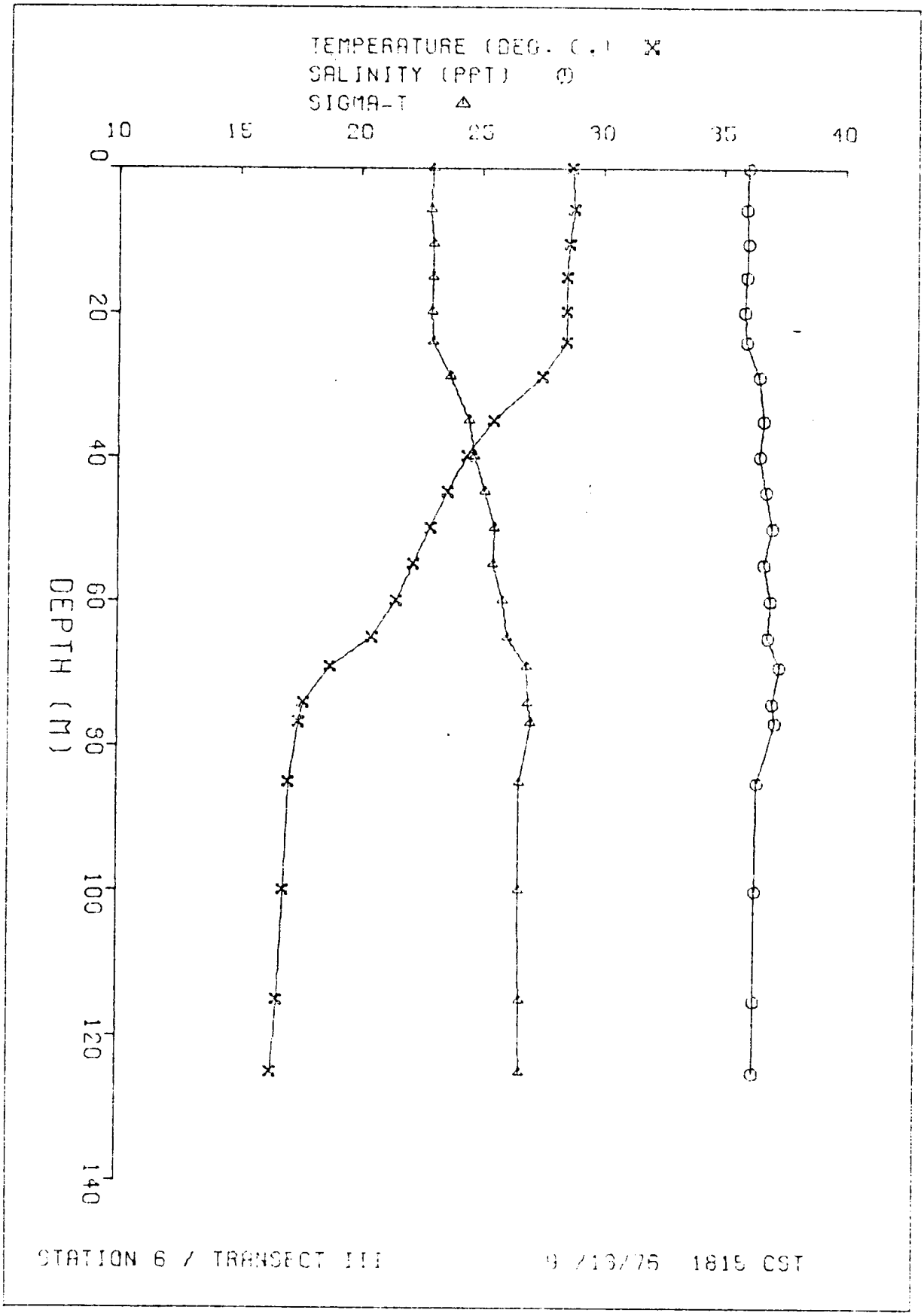
40
60
80
100
120
140
DEPTH (M)
STATION 5 / TRANSECT III
9 /12/75 2255 CST

HYDROGRAPHIC CAST DATA STATION 6 / TRANSECT III

9/13/76 1815 CST SAMPLE CODE XXX

DEPTH	TEMP	SALIN	SIGMA T	SVA	DELTA D	POT EN	SOUND VEL	DV FRQ
0.0	28.66	35.99	22.94	493.3	0.00	0.00	1544.1	0.0
5.7	28.78	35.91	22.85	502.5	.28	.01	1544.4	25.2
10.5	28.58	35.99	22.97	491.7	.52	.03	1544.1	37.5
15.1	28.48	35.93	22.96	492.4	.75	.06	1543.9	0.0
19.8	28.48	35.86	22.90	497.6	.99	.10	1543.9	7.8
24.0	28.48	35.92	22.96	492.9	1.19	.15	1544.0	101.3
28.8	27.48	36.47	23.69	422.7	1.41	.21	1542.5	132.0
34.9	25.48	36.66	24.47	348.6	1.64	.28	1538.4	103.1
39.8	24.38	36.50	24.69	328.3	1.81	.34	1535.7	91.1
44.7	23.58	36.77	25.13	285.3	1.96	.41	1534.2	102.7
49.8	22.88	37.14	25.54	247.6	2.10	.48	1532.8	64.4
54.8	22.18	36.69	25.47	254.0	2.32	.54	1530.7	63.8
59.9	21.48	36.96	25.86	215.9	2.34	.61	1529.3	84.7
65.0	20.48	36.85	26.07	197.9	2.45	.68	1526.7	122.7
69.0	18.78	37.35	26.69	119.6	2.51	.72	1522.7	115.8
74.0	17.68	37.46	26.95	114.5	2.57	.77	1519.2	58.4
76.7	17.48	37.15	27.07	103.2	2.61	.79	1518.8	0.0
85.0	17.07	36.41	26.60	147.9	2.71	.88	1516.8	0.0
100.0	16.87	36.35	26.60	146.3	2.93	1.09	1516.4	15.0
115.0	16.62	36.44	26.65	143.7	3.15	1.33	1515.9	19.5
125.0	16.39	36.30	26.68	141.5	3.29	1.51	1515.3	17.8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SALINITY (PPT) O
SIGMA-T Δ
10
15
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40
0
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40
60
80
100
120
140
DEPTH (M)
STATION 6 / TRANSECT III
9/13/76 1815 CST

HYDROGRAPHIC CAST DATA STATION 1 / TRANSECT IV
9/12/76 834 CST SAMPLE CODE QPD

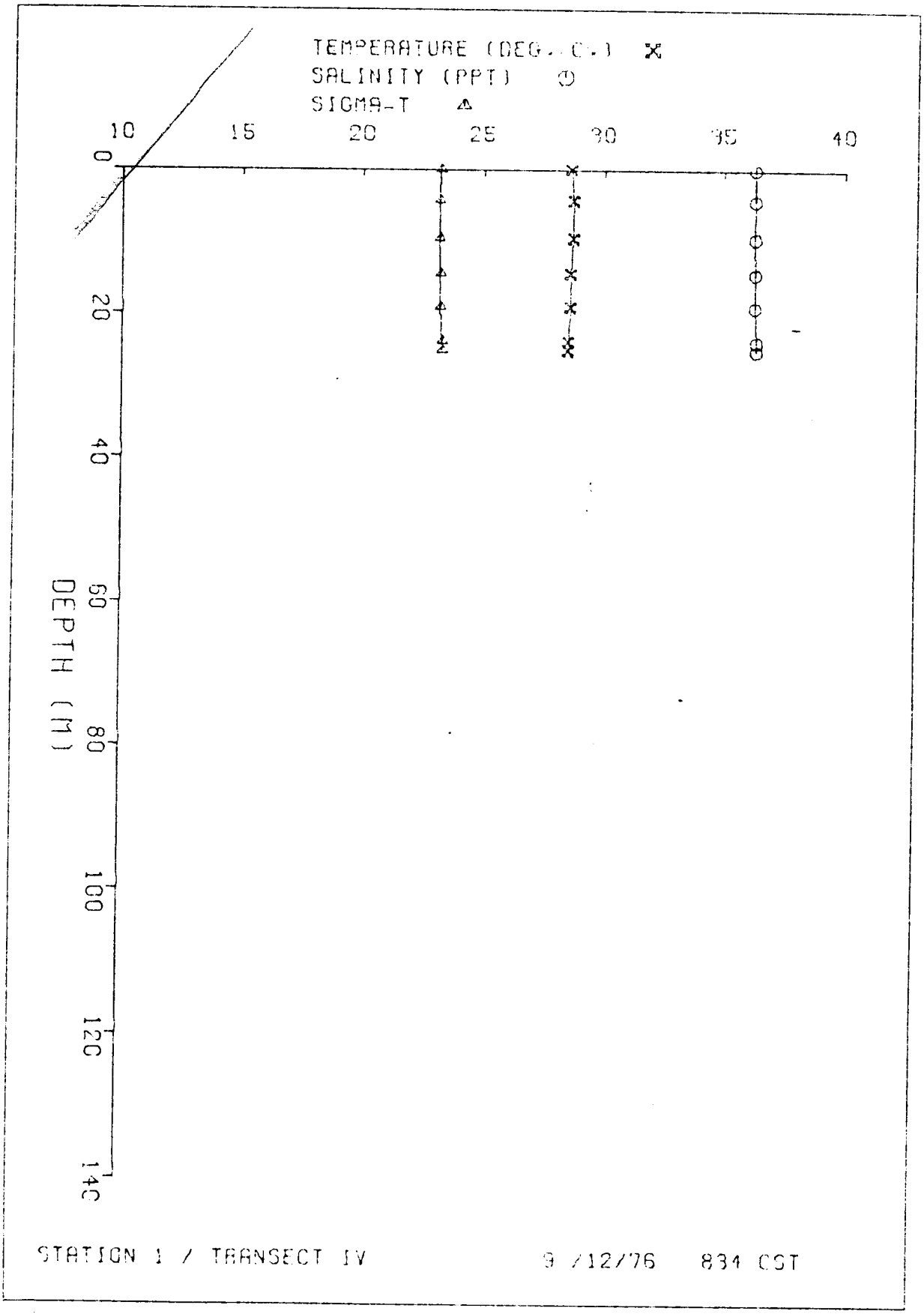
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	28.60	36.27	23.16	477.5	0.00	0.00	1544.3	0.0
4.3	28.76	36.27	23.14	474.7	.23	.00	1544.5	0.0
9.5	28.72	36.26	23.14	475.0	.45	.02	1544.6	21.1
14.4	28.69	36.27	23.17	471.7	.68	.05	1544.5	21.1
19.1	28.64	36.27	23.17	472.0	.91	.09	1544.6	33.5
23.9	28.58	36.34	23.25	463.8	1.17	.14	1544.5	33.5
25.1	28.56	36.34	23.26	463.9	1.18	.15	1544.5	0.0

HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT IV
9/11/76 1548 CST SAMPLE CODE QQP

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	29.30	36.10	22.74	513.5	0.00	0.00	1545.4	81.3
5.0	29.10	36.22	23.00	487.5	.23	.01	1545.1	45.8
10.4	29.00	36.18	22.90	497.7	.53	.03	1545.1	0.0
15.4	29.00	36.18	22.90	494.1	.77	.06	1545.2	58.0
20.5	28.90	36.34	23.43	447.8	1.01	.11	1543.4	153.5
25.8	24.91	36.95	24.81	311.3	1.21	.15	1537.2	158.5
28.8	23.90	37.19	25.27	272.0	1.38	.18	1535.0	107.4
34.1	22.32	37.17	25.55	245.8	1.42	.22	1532.6	44.3
36.3	22.08	36.91	25.47	254.2	1.54	.26	1532.3	45.5
41.4	22.56	37.16	25.74	228.2	1.66	.31	1531.9	76.2
45.7	22.43	37.25	25.83	219.6	1.71	.33	1531.8	70.3

HYDROGRAPHIC CAST DATA STATION 3 / TRANSECT IV
9/11/76 103 CST SAMPLE CODE QSB

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	28.76	36.27	23.12	476.1	0.00	0.00	1544.6	0.0
2.5	28.74	36.24	23.11	486.4	.12	.00	1544.5	0.0
6.3	28.70	36.21	23.12	476.8	.39	.01	1544.8	40.7
11.0	28.70	36.27	23.12	477.1	.63	.03	1544.8	42.7
16.2	28.78	36.38	23.21	468.6	.77	.05	1545.1	42.7
20.6	28.74	36.41	23.21	462.9	.90	.10	1545.2	0.0
25.9	28.70	36.37	23.21	463.2	1.22	.16	1545.3	69.7
30.2	28.58	36.33	23.09	431.3	1.41	.22	1545.3	72.9
34.4	27.68	36.42	23.85	426.8	1.64	.29	1542.6	92.7
38.5	25.88	36.44	24.18	376.4	1.83	.35	1539.1	109.1
44.0	25.10	36.49	24.47	349.6	1.96	.42	1537.4	79.8
48.1	24.28	36.49	24.65	331.0	2.11	.49	1535.5	86.9
53.5	23.46	36.46	25.01	296.1	2.27	.58	1533.9	90.9
58.5	22.48	36.37	25.33	267.6	2.41	.66	1532.7	51.4
63.5	22.48	36.50	25.29	270.1	2.55	.74	1531.5	0.0
67.9	22.20	36.49	25.29	271.8	2.67	.82	1531.0	58.7
73.0	21.76	36.47	25.57	245.4	2.80	.92	1530.0	80.2
78.0	21.36	36.45	25.82	222.1	2.92	1.01	1529.3	85.5
82.5	20.75	37.4	26.13	192.7	3.01	1.08	1528.0	0.0
82.8	20.65	36.24	25.24	276.9	3.02	1.09	1526.3	0.0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SALINITY (PPT) O
SIGMA-T Δ
10
15
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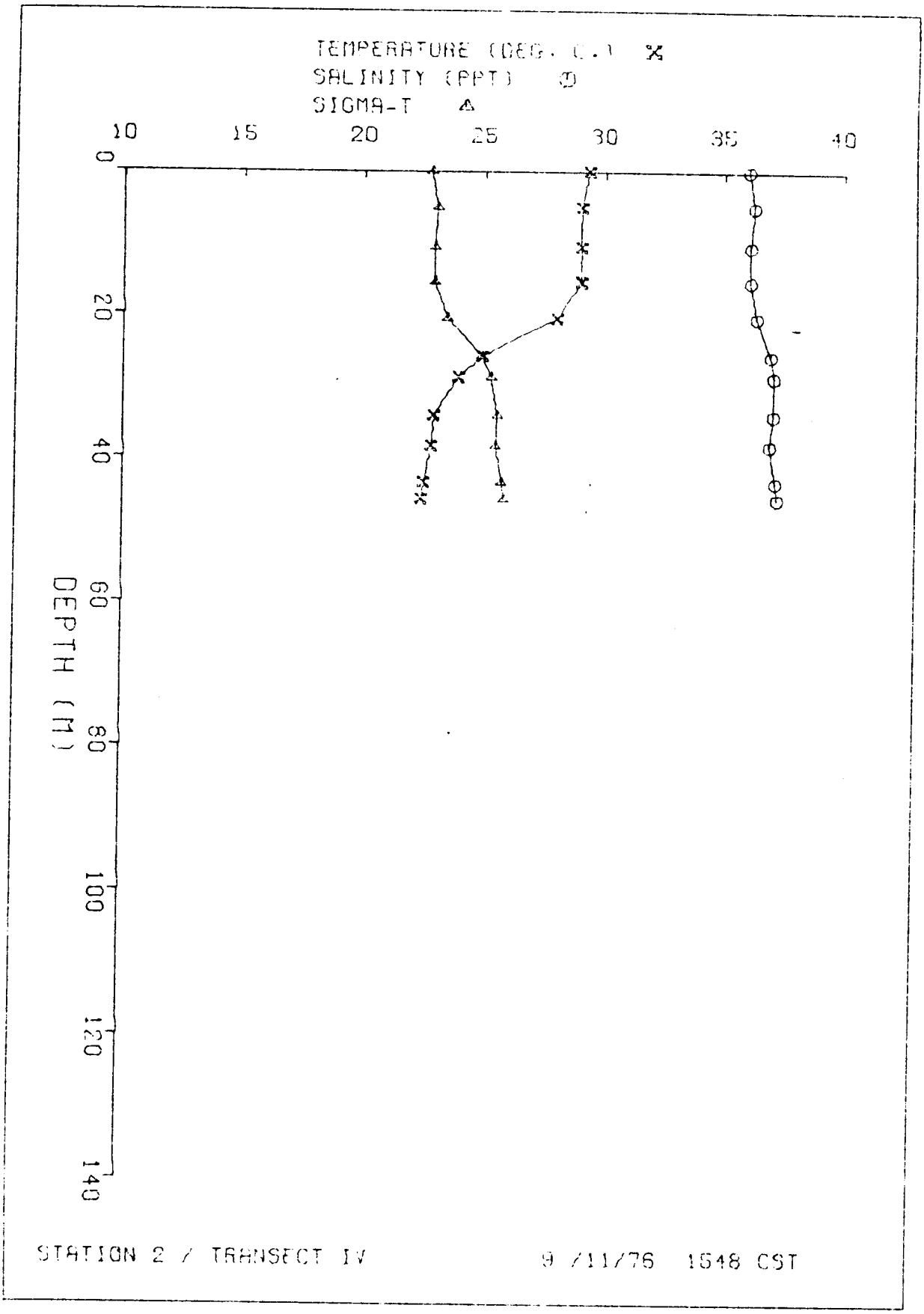
80
100
120
140
DEPTH (M)
STATION 1 / TRANSECT IV
9 /12/76 834 CST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SALINITY (PPT) O
SIGMA-T Δ
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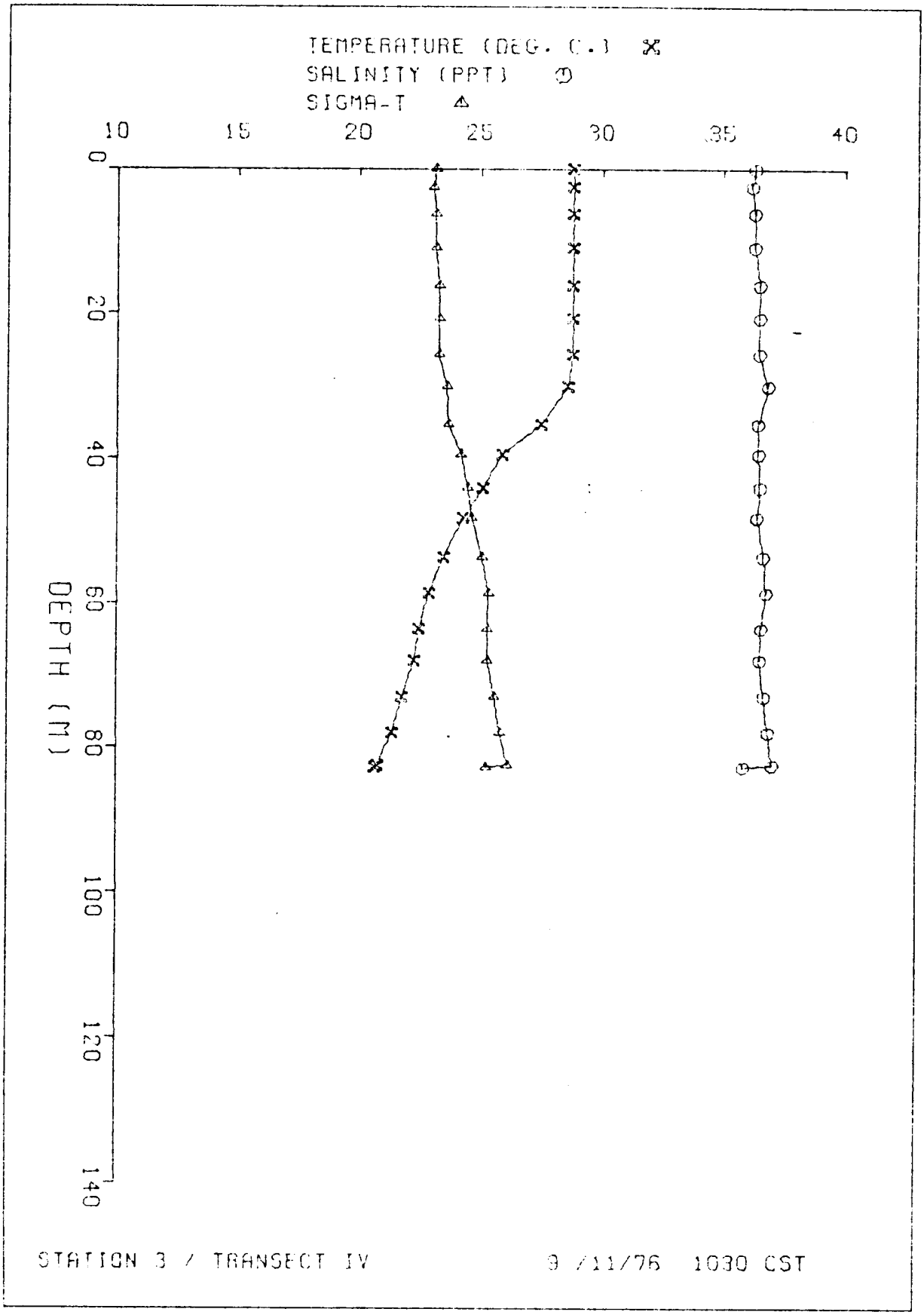
DEPTH (M)
STATION 2 / TRANSECT IV
9/11/76 1548 CST


TEMPERATURE (DEG. C.) ✕
SALINITY (PPT) ⊙
SIGMA-T △
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DEPTH (M)
STATION 3 / TRANSECT IV
9 /11/76 1030 CST

HYDROGRAPHIC CAST DATA STATION 4 / TRANSECT IV
9/12/76 1124 CST SAMPLE CODE QTR

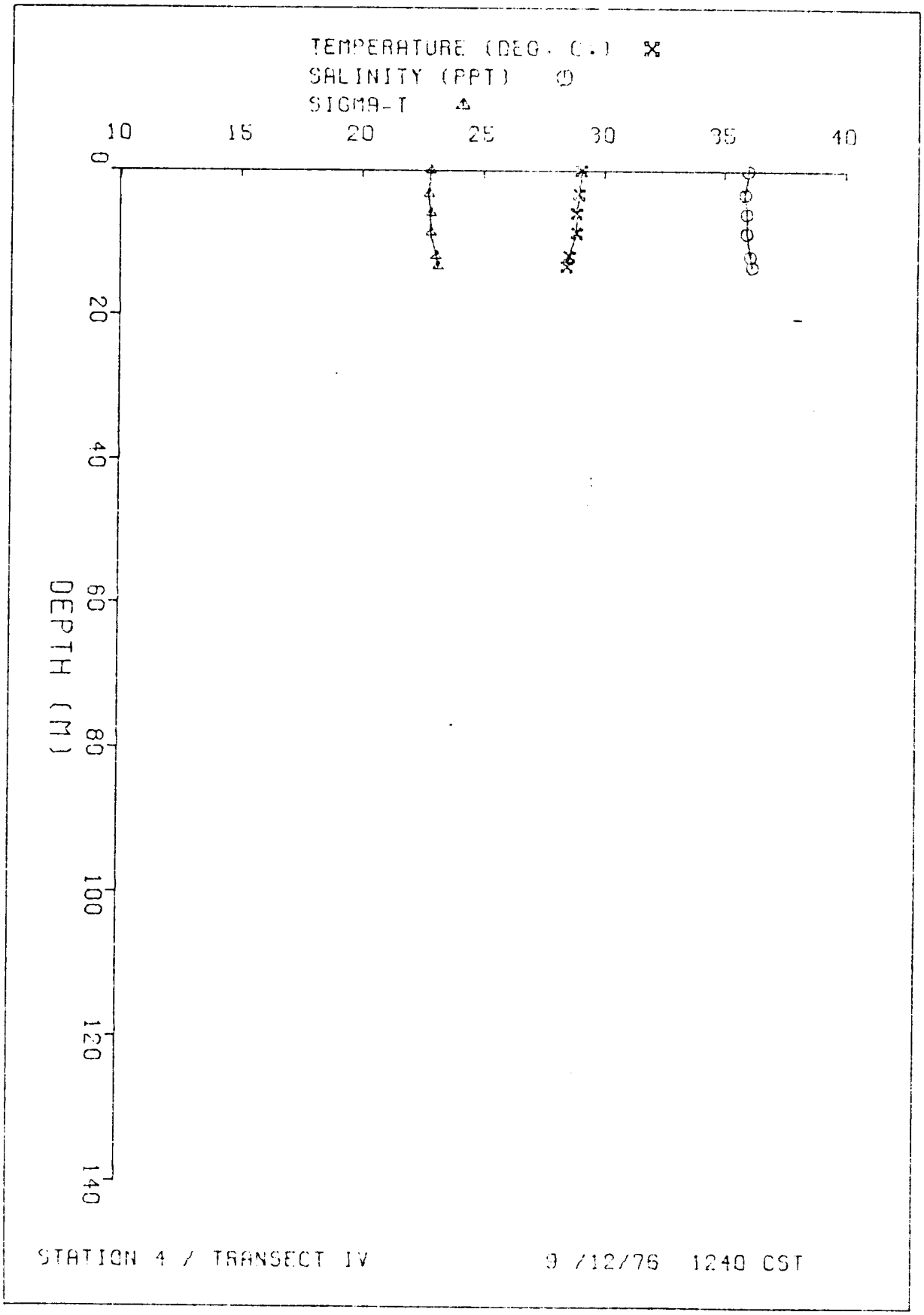
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	29.05	35.97	22.80	506.7	0.00	0.00	1544.9	0.0
3.3	28.95	35.84	22.73	513.4	.17	.00	1544.6	28.1
5.0	28.85	35.91	22.82	505.1	.31	.01	1544.5	44.8
8.7	28.85	35.91	22.82	505.2	.44	.02	1544.5	64.4
11.9	28.55	36.16	23.04	484.8	.60	.04	1544.1	88.5
13.4	28.45	36.14	23.12	476.4	.67	.05	1544.0	85.7

HYDROGRAPHIC CAST DATA STATION 5 / TRANSECT IV
9/11/76 2016 CST SAMPLE CODE QTS

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	29.87	35.85	22.43	541.8	0.00	0.00	1545.5	0.0
3.3	29.87	35.85	22.43	542.5	.34	.01	1546.6	0.0
11.3	29.87	35.85	22.43	542.8	.61	.04	1546.6	34.0
16.0	29.77	35.92	22.52	534.5	.87	.07	1546.5	34.0
20.9	29.77	35.92	22.52	534.8	1.13	.12	1546.7	96.8
25.2	28.47	36.20	23.17	472.7	1.34	.17	1544.3	134.5
28.6	27.77	36.33	23.65	427.3	1.53	.21	1543.2	89.0
34.2	27.77	36.32	23.48	443.0	1.74	.29	1543.1	133.3
35.0	27.67	36.61	23.74	418.9	1.77	.30	1543.2	197.5

HYDROGRAPHIC CAST DATA STATION 6 / TRANSECT IV
9/11/76 1414 CST SAMPLE CODE QTI

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	28.73	35.91	22.86	500.7	0.00	0.00	1544.2	63.4
5.0	28.43	35.99	23.02	485.6	.25	.01	1543.7	37.3
10.3	28.43	35.92	22.97	490.9	.51	.03	1543.7	0.0
15.6	28.43	35.92	22.97	491.3	.77	.06	1543.8	0.0
19.4	28.43	35.92	22.97	491.5	.95	.09	1543.8	49.3
23.9	28.23	36.07	23.15	474.8	1.17	.14	1543.7	73.7
28.2	28.23	36.34	23.35	455.1	1.37	.20	1544.0	0.0
34.2	28.23	35.96	22.99	490.4	1.66	.29	1543.6	126.3
34.8	25.53	36.05	24.45	351.2	1.85	.36	1533.5	150.5
45.5	24.43	36.64	24.78	320.2	2.07	.46	1536.1	100.3
49.8	23.33	36.85	25.26	273.8	2.28	.52	1533.7	103.8
54.3	22.33	36.83	25.54	248.0	2.39	.58	1531.3	81.2
54.2	21.53	36.97	25.76	226.7	2.43	.65	1529.6	97.0
54.5	21.53	36.97	25.74	223.7	2.44	.65	1529.4	114.6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SALINITY (PPT)
SIGMA-T
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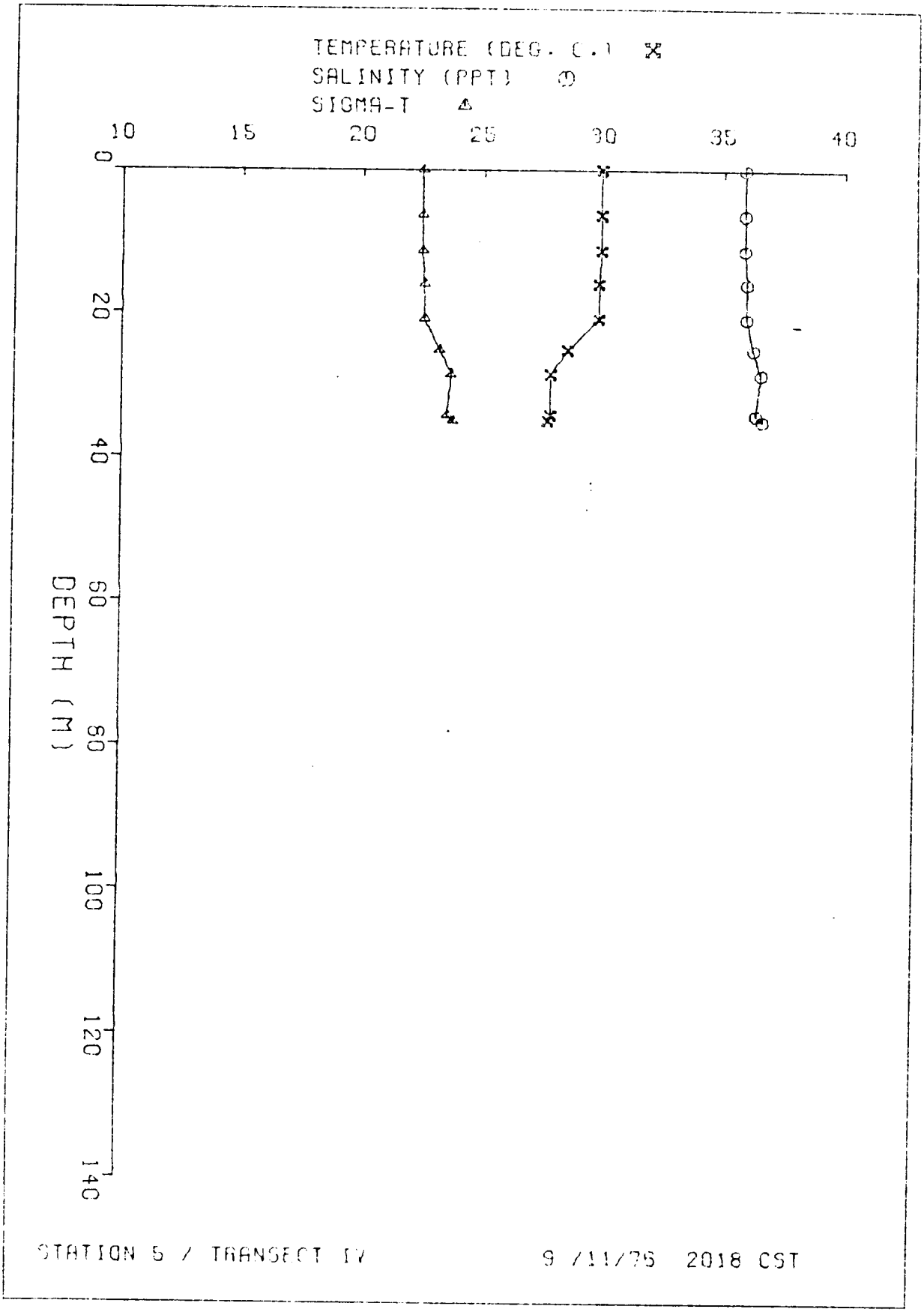
100
120
140
DEPTH (M)
STATION 4 / TRANSECT IV
9 /12/76 1240 CST


TEMPERATURE (DEG. C.) X
SALINITY (PPT) ⊙
SIGMA-T △
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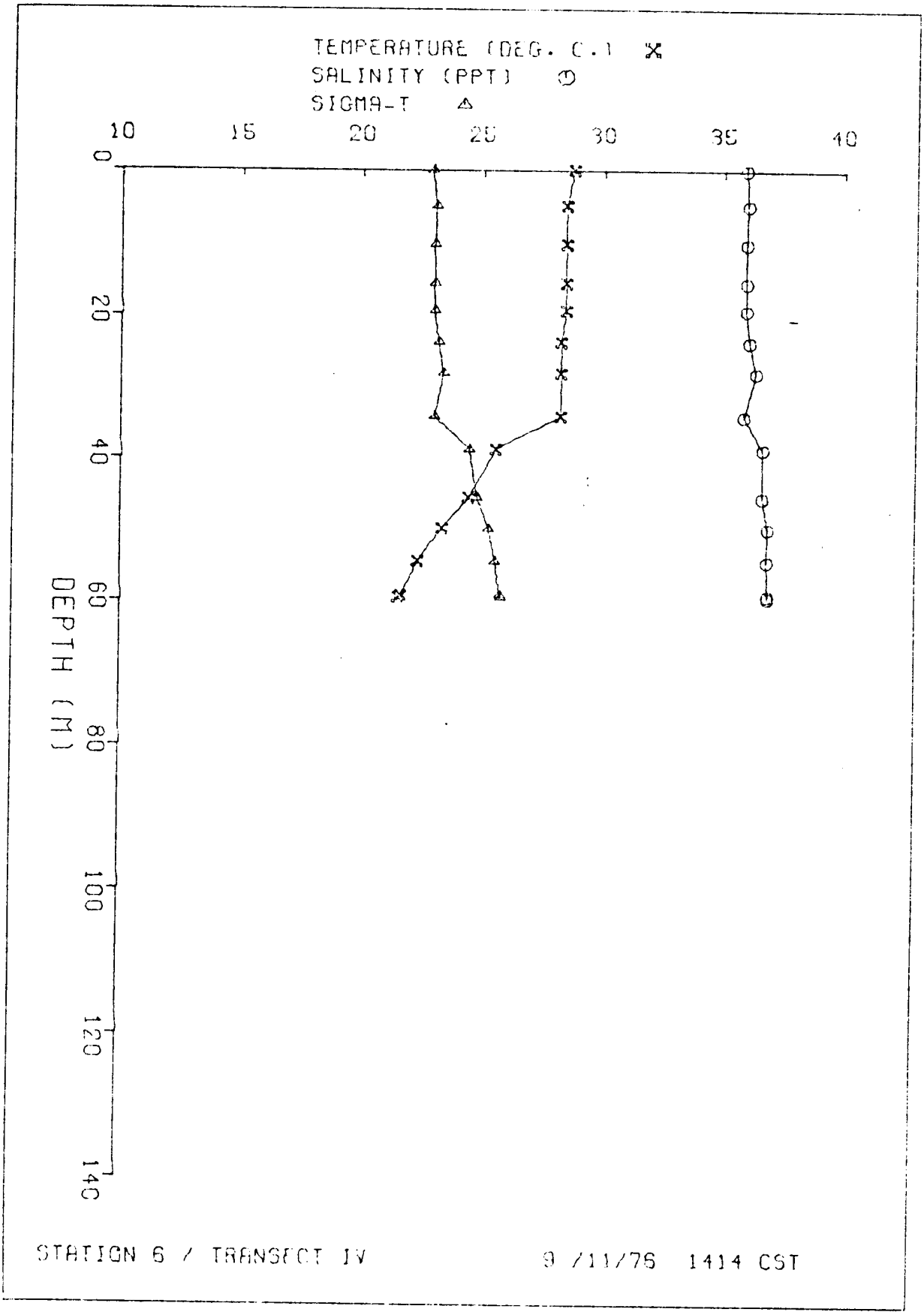
140
DEPTH (M)
STATION 5 / TRANSECT IV
9/11/76 2018 CST


TEMPERATURE (DEG. C.) X
SALINITY (PPT) O
SIGMA-T Δ
10
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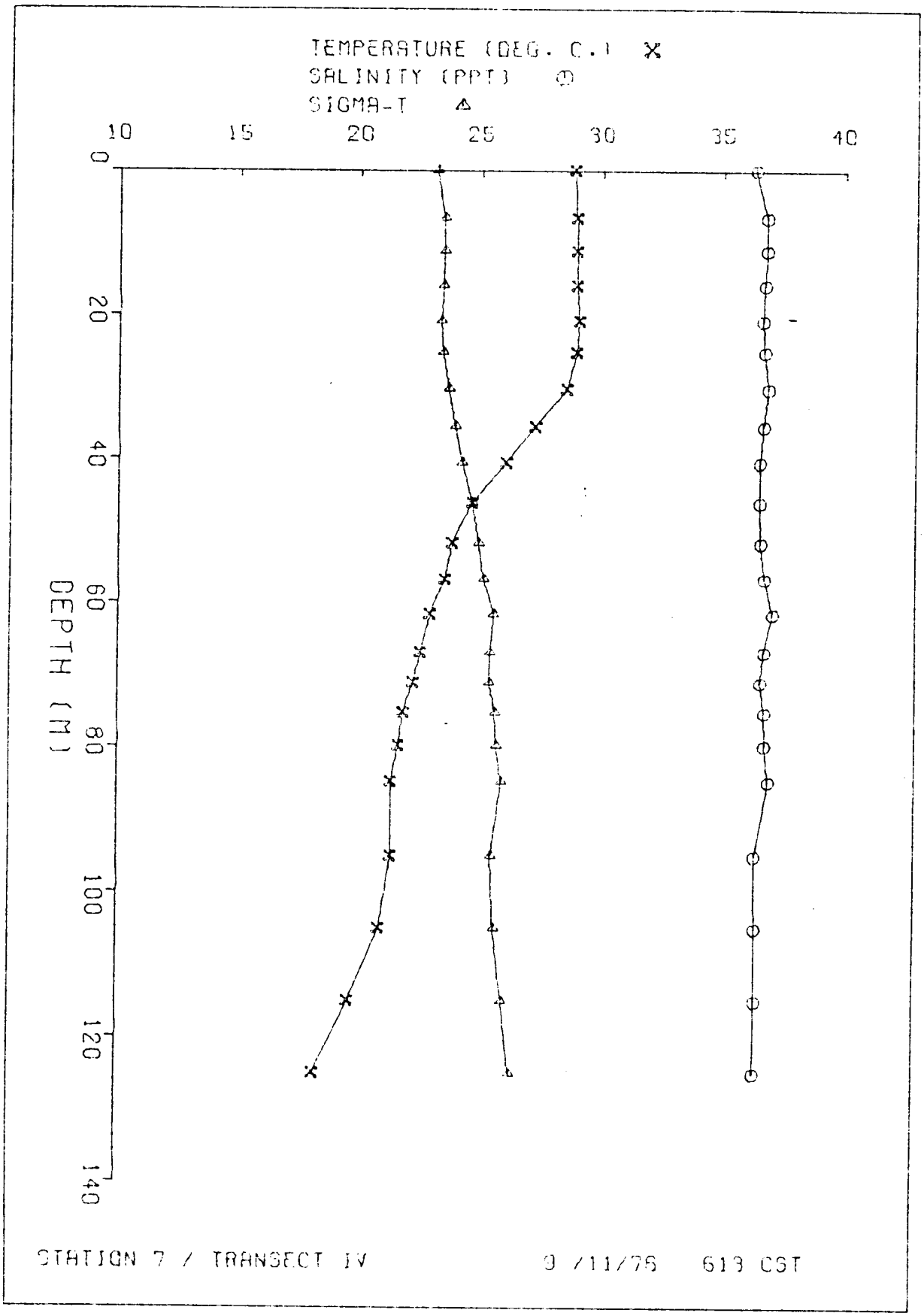
120
140
DEPTH (M)
STATION 6 / TRANSECT IV
9 /11/75 1414 CST

HYDROGRAPHIC CAST DATA STATION 7 / TRANSECT IV

9/11/76 613 CST SAMPLE CODE QTU

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	28.83	36.31	23.13	474.9	0.00	0.00	1544.8	78.4
6.5	28.93	36.79	23.45	444.6	.30	.01	1545.6	55.3
11.1	28.93	36.79	23.45	445.0	.50	.03	1545.7	0.0
15.9	28.96	36.71	23.40	45[illegible].2	.72	.06	1545.7	0.0
20.8	29.03	36.64	23.31	459.2	.94	.10	1545.9	10.0
25.2	28.93	36.71	23.40	450.8	1.14	.15	1545.9	66.2
30.3	28.53	36.88	23.65	426.5	1.37	.21	1545.3	80.3
35.5	27.23	36.68	23.93	400.0	1.58	.28	1542.3	82.1
40.5	26.03	36.54	24.21	373.9	1.78	.36	1539.6	91.2
46.0	24.63	36.55	24.65	332.5	1.97	.44	1536.4	89.3
51.5	23.63	36.59	24.92	306.7	2.15	.53	1534.7	75.7
56.5	23.53	36.76	25.13	286.4	2.20	.61	1534.2	89.6
61.5	22.93	37.10	25.57	245.4	2.43	.69	1533.2	59.0
66.8	22.53	36.73	25.41	260.9	2.56	.78	1531.9	0.0
71.0	22.23	36.59	25.38	263.2	2.67	.86	1531.0	57.4
75.2	21.83	36.77	25.63	239.9	2.73	.94	1530.3	66.9
79.8	21.63	36.78	25.69	234.1	2.89	1.03	1529.8	59.2
84.8	21.33	36.95	25.91	213.8	3.00	1.12	1529.3	9.0
95.0	21.33	36.39	25.46	254.6	3.24	1.35	1528.9	0.0
105.0	20.86	36.42	25.63	240.6	3.43	1.60	1527.8	55.5
115.0	19.60	36.43	25.98	207.8	3.72	1.86	1524.6	65.2
125.0	18.17	36.4[illegible]	26.32	175.6	3.91	2.09	1520.7	64.8


TEMPERATURE (DEG. C.) X
SALINITY (PPT) O
SIGMA-T Δ
10
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80
100
120
140
DEPTH (M)
STATION 7 / TRANSECT IV
9/11/76 613 CST

HYDROGRAPHIC CAST DATA [illegible] ROCK 1

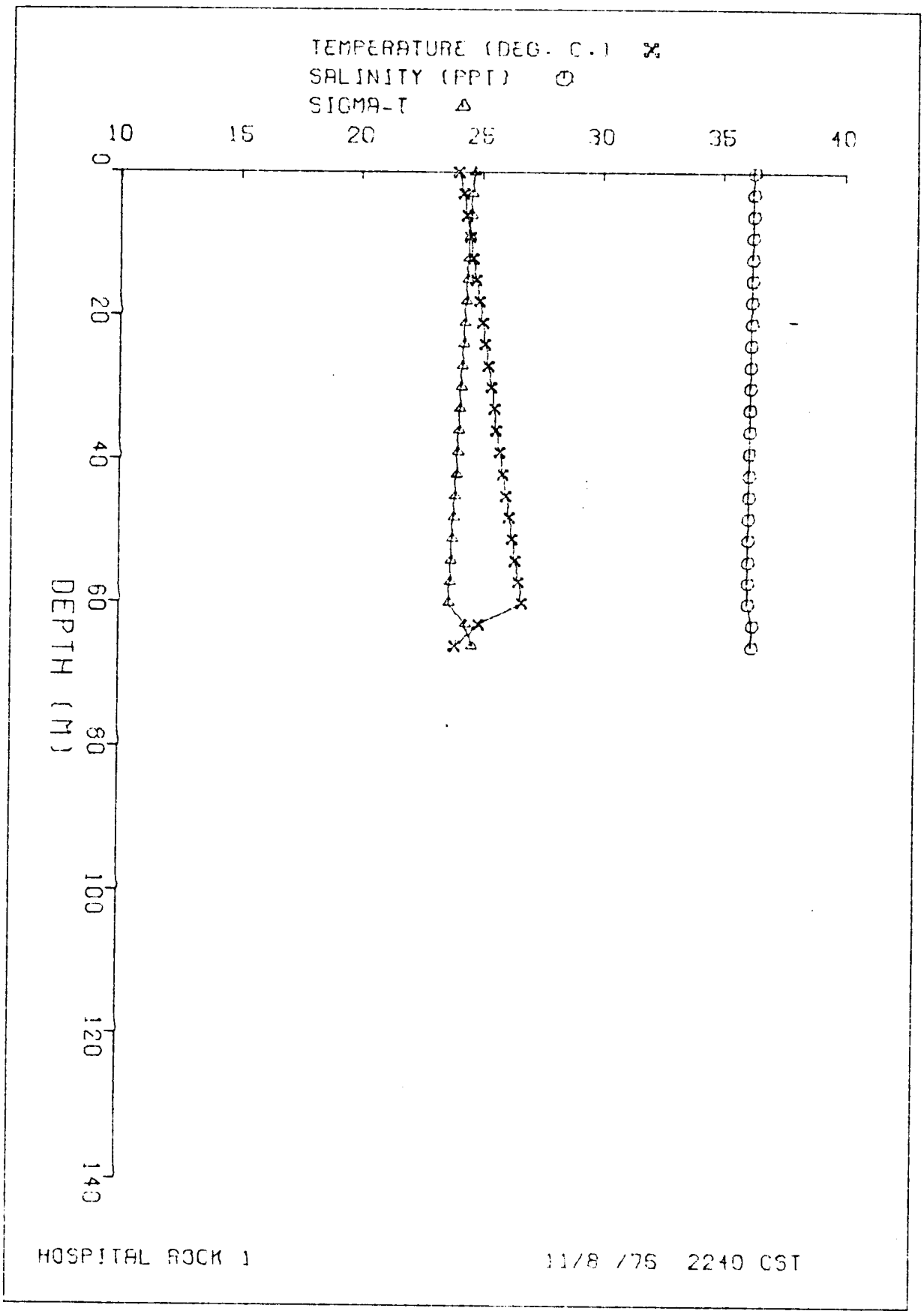
11/ [illegible] CST [illegible] SAMPLE CODE [illegible]/77

DEPTH	TEMP	[SALIN]	SIGMA T	SVA	[DELTA D]	POT EN	SOUND VEL	BV FRQ
0.0	23.97	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1533.8	0.0
3.0	24.1[illegible]	[illegible]	[illegible]	[illegible]	.1[illegible]	[illegible]	1534.3	0.0
6.0	24.3[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1534.7	0.0
9.0	24.40	[illegible]	[illegible]	[illegible]	.31	[illegible]	1535.1	0.0
12.0	24.5[illegible]	[illegible]	[illegible]	[illegible]	.41	.03	1535.4	0.0
15.0	24.7[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.04	1535.8	0.0
18.0	24.[illegible]7	[illegible]	[illegible]	[illegible]	.63	[illegible]	1536.1	0.0
21.0	25.[illegible]	36.17	[illegible]	[illegible]	.74	.08	1536.5	0.0
24.0	25.11	[illegible]	[illegible]	[illegible]	[illegible]	.11	1536.8	0.0
27.0	25.24	[illegible]	[illegible]	[illegible]	.97	.14	1537.1	0.0
30.0	25.3[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.17	1537.5	0.0
33.0	25.[illegible]1	[illegible]	[illegible]	[illegible]	[illegible]	.21	1537.8	0.0
36.0	25.5[illegible]	[illegible]	[illegible]	[illegible]	1.31	.25	1538.0	0.0
39.0	25.74	[illegible]	[illegible]	[illegible]	1.43	.29	1538.4	0.0
42.0	25.87	36.11	[illegible]	[illegible]	[illegible]	.34	1538.8	0.0
45.0	25.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1539.1	0.0
48.0	26.1[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1539.5	0.0
51.0	26.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.52	1539.8	0.0
54.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.59	1540.2	0.0
57.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.66	1540.5	0.0
60.0	25.5[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.73	1540.9	116.2
63.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.81	1537.1	141.7
66.0	23.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.88	1534.7	106.5

HY[illegible] ROCK 2

11/ [illegible]

DEPTH	TEMP	[illegible]	[illegible]	[illegible]	[illegible]	POT EN	SOUND VEL	BV FRQ
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1533.5	0.0
3.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1533.7	0.0
6.0	23.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1533.8	0.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1533.8	0.0
12.0	23.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1533.9	0.0
15.0	23.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1533.9	0.0
18.0	23.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1534.0	0.0
21.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1534.0	0.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1534.1	0.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.13	1534.1	0.6
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.16	1534.1	0.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1534.2	0.0
36.0	23.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1534.2	6.3
[illegible]	23.[illegible]1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1534.1	[illegible]
42.0	23.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1534.3	4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1534.4	0.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1534.4	3.4
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1534.4	14.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1534.4	11.3
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1534.3	78.4
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1532.2	137.4
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1527.4	122.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1525.5	44.3
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1526.5	38.2
72.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1525.8	53.9


TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ⊙
SIGMA-T △
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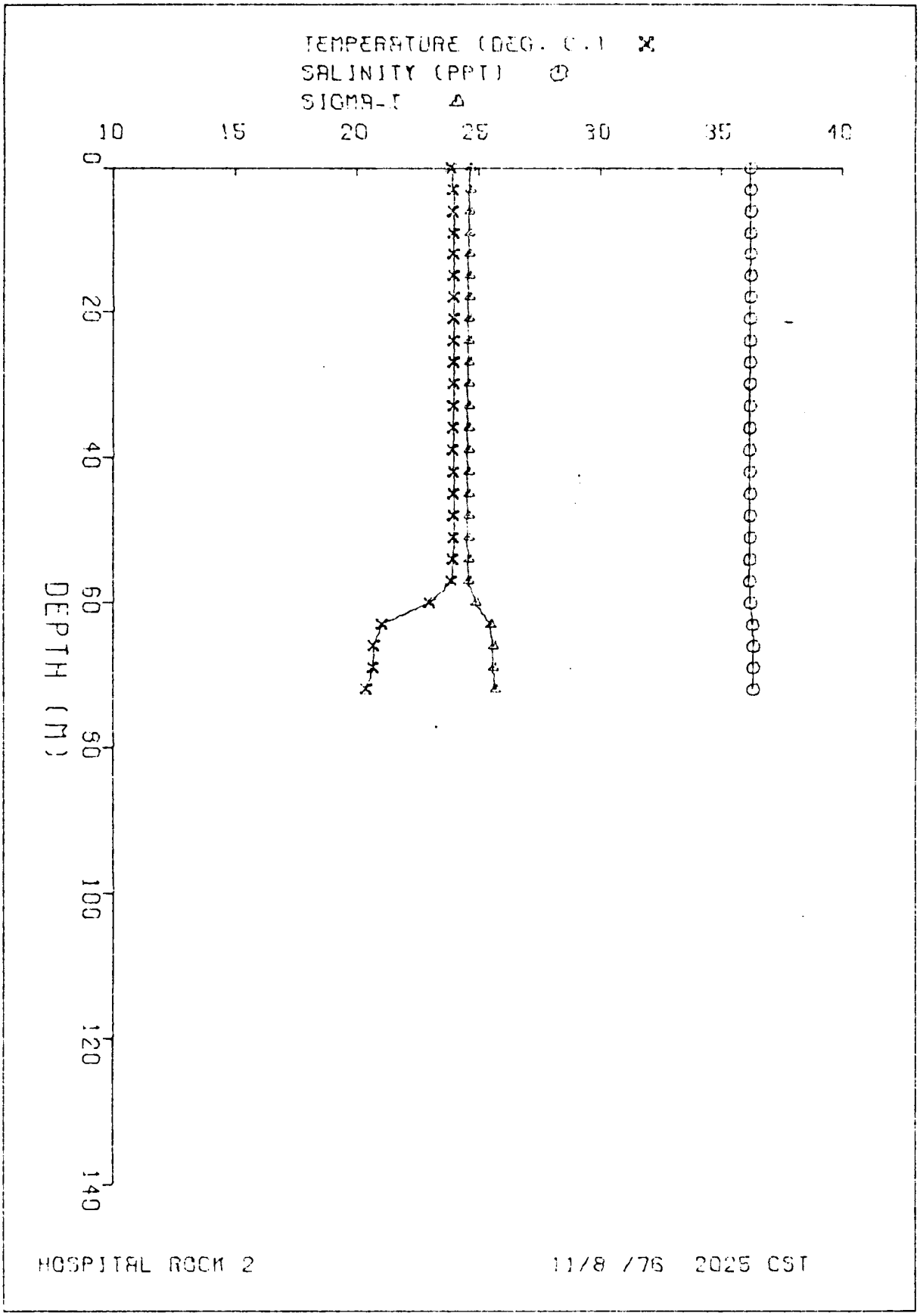
DEPTH (M)
HOSPITAL ROCK 1
11/8 /75 2240 CST


TEMPERATURE (DEG. C.)
SALINITY (PPT)
SIGMA-T
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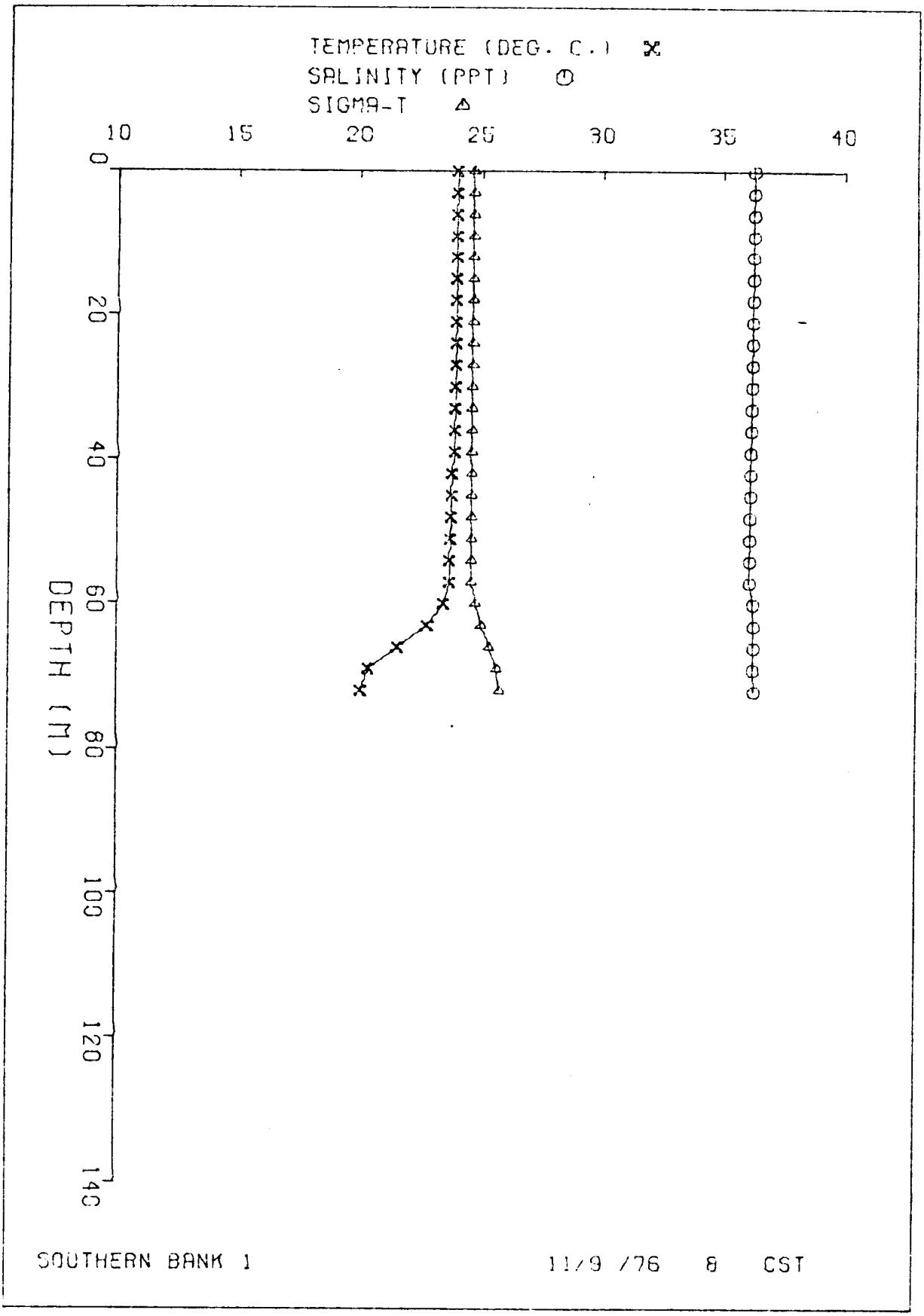
80
100
120
140
DEPTH (M)
HOSPITAL ROCK 2
11/8 /76 2025 CST

DEPTH	TEMP	SALT	SIGMA T	SVA	DELTA D	POT EN	SOUND VEL	BV FRQ
0.0	23.94	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1533.7	0.0
3.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1533.7	0.0
6.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.01	1533.8	0.0
9.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.01	1533.9	0.0
12.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.02	1533.8	0.0
15.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.04	1533.8	0.0
18.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.06	1533.9	0.0
21.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.08	1533.9	0.0
24.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.10	1533.9	0.0
27.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.13	1534.0	0.0
30.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.16	1534.0	0.0
33.0	[illegible]	[illegible]	[illegible]	[illegible]	1.11	.19	1534.0	0.0
36.0	23.87	[illegible]	[illegible]	[illegible]	1.21	.22	1534.0	0.0
39.0	23.[illegible]	[illegible]	[illegible]	[illegible]	1.31	.26	1534.0	12.6
42.0	23.78	[illegible]	[illegible]	[illegible]	[illegible]	.31	1533.8	19.4
45.0	23.78	[illegible]	[illegible]	[illegible]	[illegible]	.35	1533.8	0.0
48.0	23.73	[illegible]	[illegible]	[illegible]	[illegible]	.40	1533.8	0.0
51.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.45	1533.8	6.6
54.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.51	1533.8	0.0
57.0	[illegible]	[illegible]	[illegible]	[illegible]	1.93	.56	1533.8	51.2
60.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.62	1533.4	92.4
63.0	22.7[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.68	1531.8	107.6
66.0	21.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.74	1528.8	116.3
69.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.79	1525.7	95.0
72.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.84	1524.9	69.0

HYDROGRAPHIC [illegible] 4

[illegible]

DEPTH	TEMP	SALT	SIGMA T	SVA	DELTA D	POT EN	SOUND VEL	BV FRQ
0.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1533.4	0.0
3.0	23.87	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1533.5	[illegible]
6.0	23.87	[illegible]	[illegible]	[illegible]	[illegible]	.01	1533.5	8.2
9.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.01	1533.6	8.2
12.0	23.85	[illegible]	[illegible]	[illegible]	[illegible]	.02	1533.6	8.2
15.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.04	1533.6	8.2
18.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.06	1533.7	8.2
21.0	[illegible]	[illegible]	[illegible]	[illegible]	.71	.08	1533.7	8.2
24.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.10	1533.7	8.2
27.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.13	1533.8	8.2
30.0	23.81	[illegible]	[illegible]	[illegible]	[illegible]	.16	1533.8	13.7
33.0	23.79	[illegible]	[illegible]	[illegible]	1.11	.19	1533.8	15.8
36.0	23.77	[illegible]	24.61	[illegible]	1.21	.22	1533.8	15.8
39.0	23.7[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.26	1533.8	5.7
42.0	23.7[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.30	1533.8	6.0
45.0	23.7[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.35	1533.8	9.6
48.0	23.69	[illegible]	[illegible]	[illegible]	[illegible]	.40	1533.8	19.2
51.0	23.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.45	1533.7	17.6
54.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1533.7	13.7
57.0	23.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1533.8	[illegible]
60.0	23.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.62	1533.8	23.5
63.0	23.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.68	1533.6	66.8
66.0	22.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.75	1532.2	132.4
69.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1526.9	143.3
72.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.86	1525.0	83.7


TEMPERATURE (DEG. C.) ✕
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
25
30
35
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0
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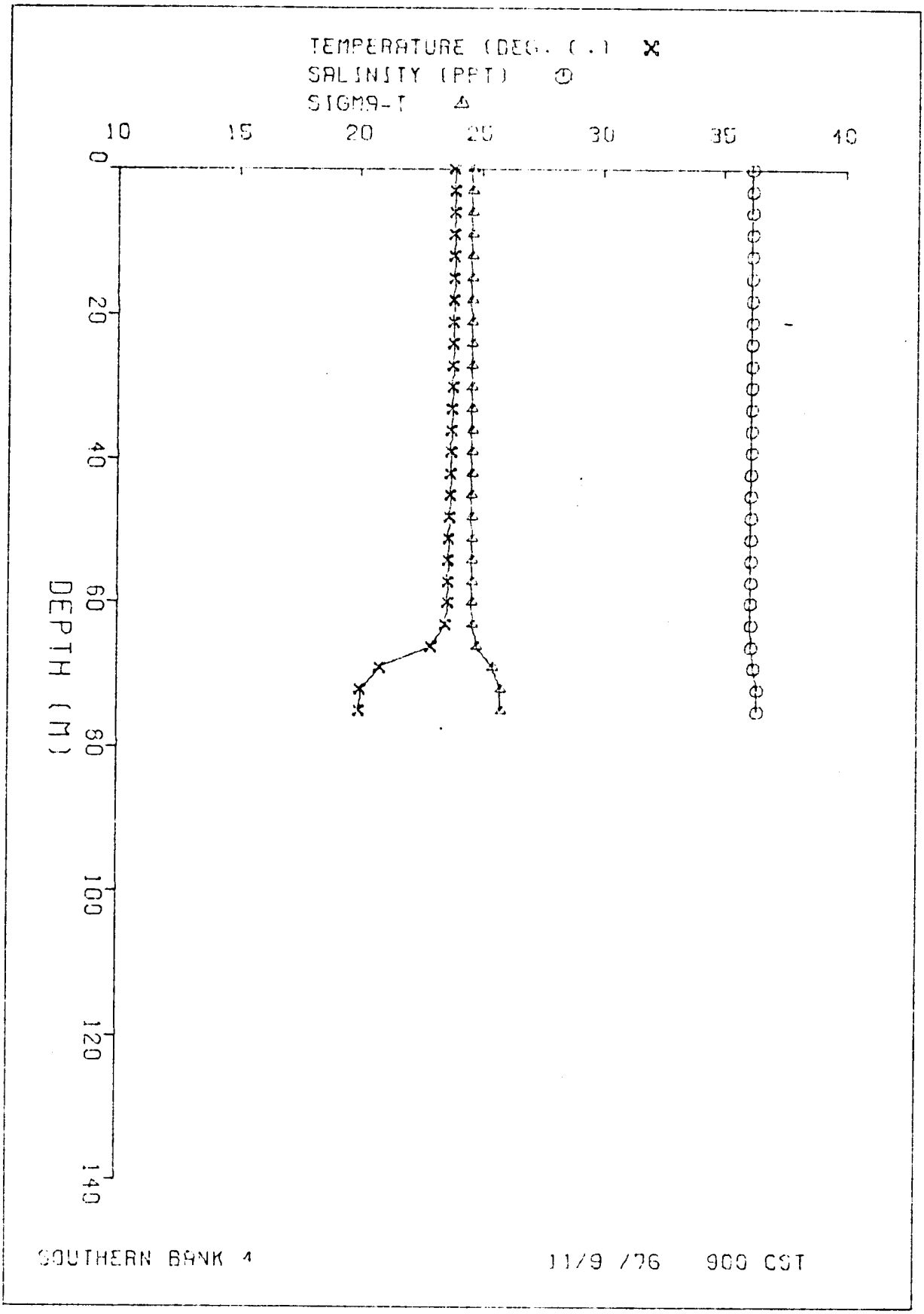
40
60
80
100
120
140
DEPTH (M)
SOUTHERN BANK 1
11/9 /76 8 CST


TEMPERATURE (DEG. C.) X
SALINITY (PPT) ⊙
SIGMA-T Δ
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15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
SOUTHERN BANK 4
11/9 /76 900 CST

HYDROGRAPHIC CAST DATA STATION 1 / TRANSECT II
11/10/76 1315 CST SAMPLE CODE UTK

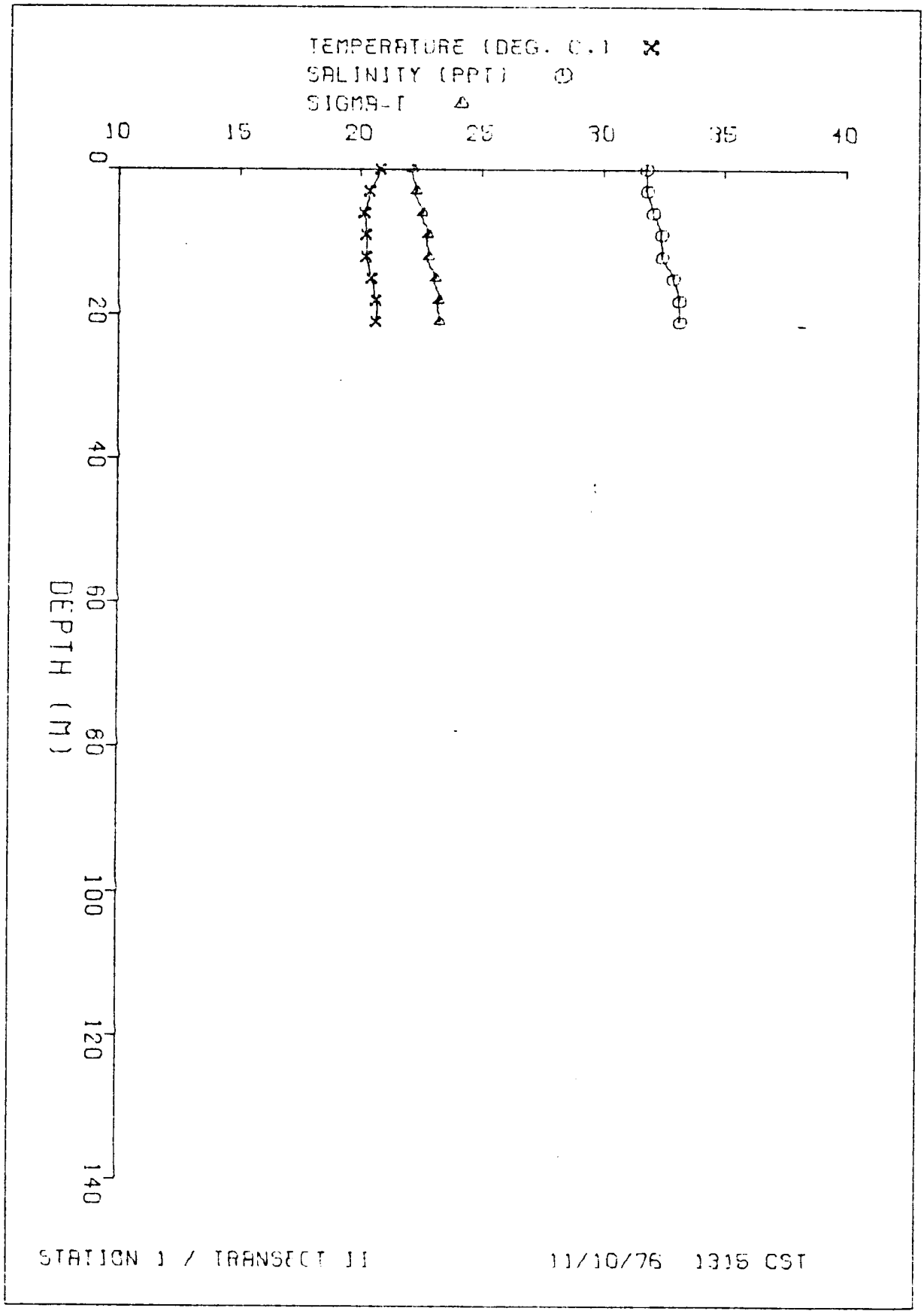
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	20.79	31.77	22.12	571.7	0.00	0.00	1520.5	74.6
3.0	20.34	31.79	22.25	559.1	.17	.00	1519.3	89.8
6.0	20.11	32.05	22.51	534.8	.33	.01	1519.1	100.5
9.0	20.21	32.39	22.74	512.6	.49	.02	1519.8	70.7
12.0	20.20	32.40	22.75	511.8	.64	.04	1519.8	80.9
15.0	20.42	32.88	23.06	482.5	.79	.06	1521.0	95.9
18.0	20.61	33.13	23.20	469.4	.94	.08	1521.9	55.0
21.0	20.61	33.14	23.21	468.7	1.08	.11	1522.0	19.0

HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT II
11/ 9/76 2130 CST SAMPLE CODE UVA

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	23.18	35.72	24.45	349.3	0.00	0.00	1531.2	19.7
3.0	23.17	35.73	24.46	348.8	.10	.00	1531.3	16.4
6.0	23.19	35.74	24.46	348.6	.21	.01	1531.4	16.4
9.0	23.18	35.75	24.47	347.8	.31	.01	1531.4	19.1
12.0	23.21	35.77	24.48	347.1	.42	.03	1531.6	24.8
15.0	23.21	35.80	24.50	345.2	.52	.04	1531.7	26.7
18.0	23.24	35.83	24.51	344.0	.63	.06	1531.8	28.0
21.0	23.29	35.88	24.54	341.8	.73	.08	1532.0	26.9
24.0	23.33	35.91	24.55	340.9	.83	.10	1532.2	23.6
27.0	23.33	35.93	24.56	339.4	.93	.13	1532.3	19.1
30.0	23.35	35.94	24.57	339.5	1.04	.16	1532.4	12.2
33.0	23.35	35.95	24.57	339.0	1.14	.19	1532.5	18.1
36.0	23.35	35.96	24.58	338.2	1.24	.23	1532.5	19.7
39.0	23.34	35.97	24.59	337.4	1.34	.27	1532.6	19.7
42.0	23.34	35.98	24.60	336.6	1.44	.31	1532.6	19.7
45.0	23.33	35.99	24.61	335.9	1.54	.35	1532.7	19.7

HYDROGRAPHIC CAST DATA STATION 4 / TRANSECT II
11/10/76 1000 CST SAMPLE CODE UYJ

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	20.75	33.25	23.25	463.2	0.00	0.00	1522.1	228.0
3.0	20.75	34.90	24.51	343.5	.12	.00	1524.1	156.2
6.0	22.22	35.34	24.44	350.9	.23	.01	1528.5	0.0
9.0	22.92	35.66	24.48	347.0	.33	.01	1530.7	2.3
12.0	23.02	35.64	24.44	351.1	.44	.03	1531.0	0.0
15.0	23.04	35.68	24.46	349.0	.54	.04	1531.1	0.0
18.0	23.10	35.66	24.43	351.9	.65	.06	1531.3	0.0
21.0	23.15	35.68	24.42	353.0	.75	.08	1531.5	10.6
24.0	23.19	35.71	24.44	351.7	.86	.10	1531.7	5.1
27.0	23.18	35.68	24.42	353.1	.96	.13	1531.6	0.0
30.0	23.18	35.69	24.42	352.9	1.07	.16	1531.7	0.0
33.0	23.18	35.67	24.41	353.9	1.18	.20	1531.7	0.0


TEMPERATURE (DEG. C.) ×
SALINITY (PPT) ⊙
SIGMA-T △
10
15
20
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30
35
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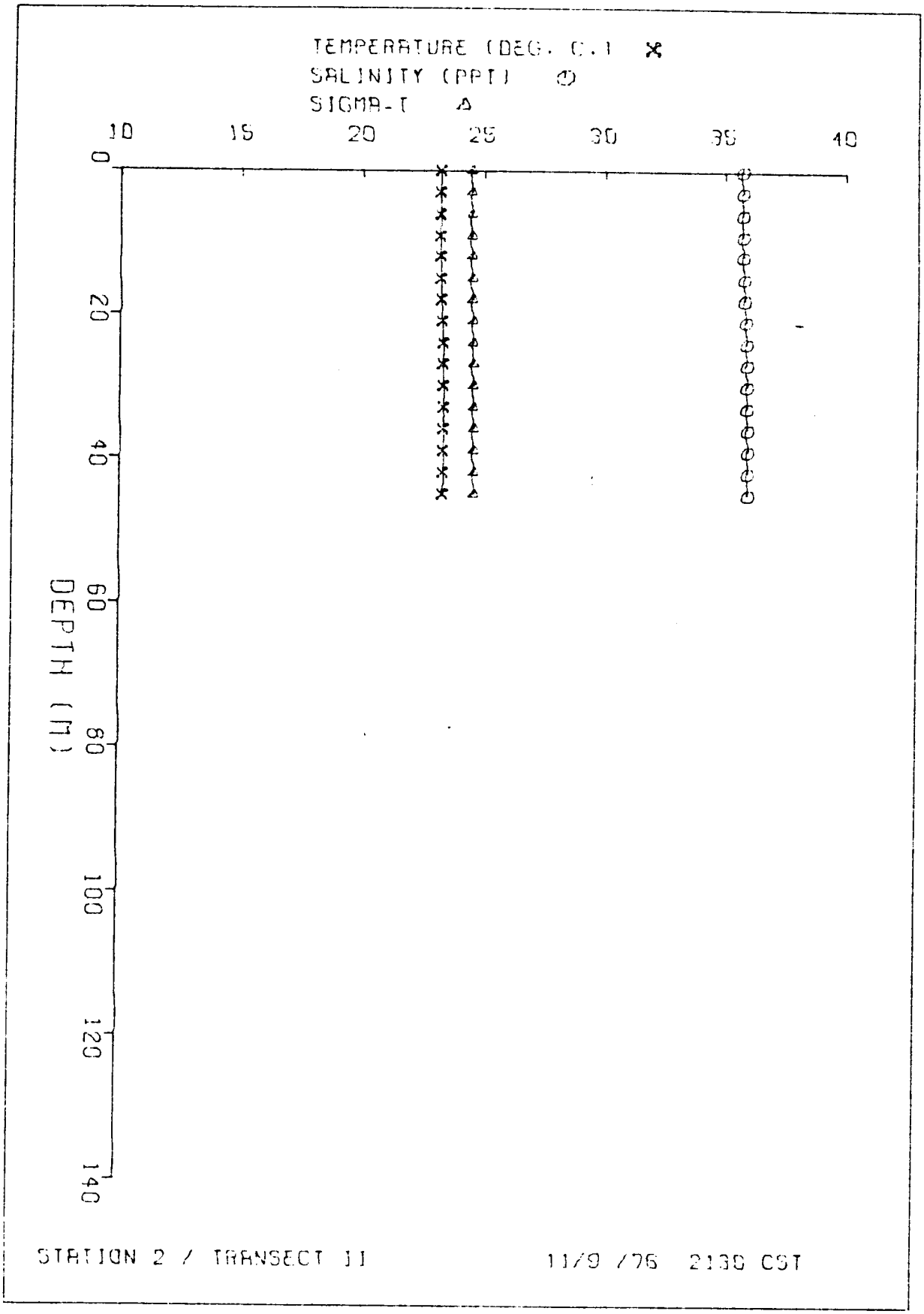
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 1 / TRANSECT II
11/10/76 1315 CST


TEMPERATURE (DEG. C.) ✕
SALINITY (PPT) ⊙
SIGMA-T △
10
15
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25
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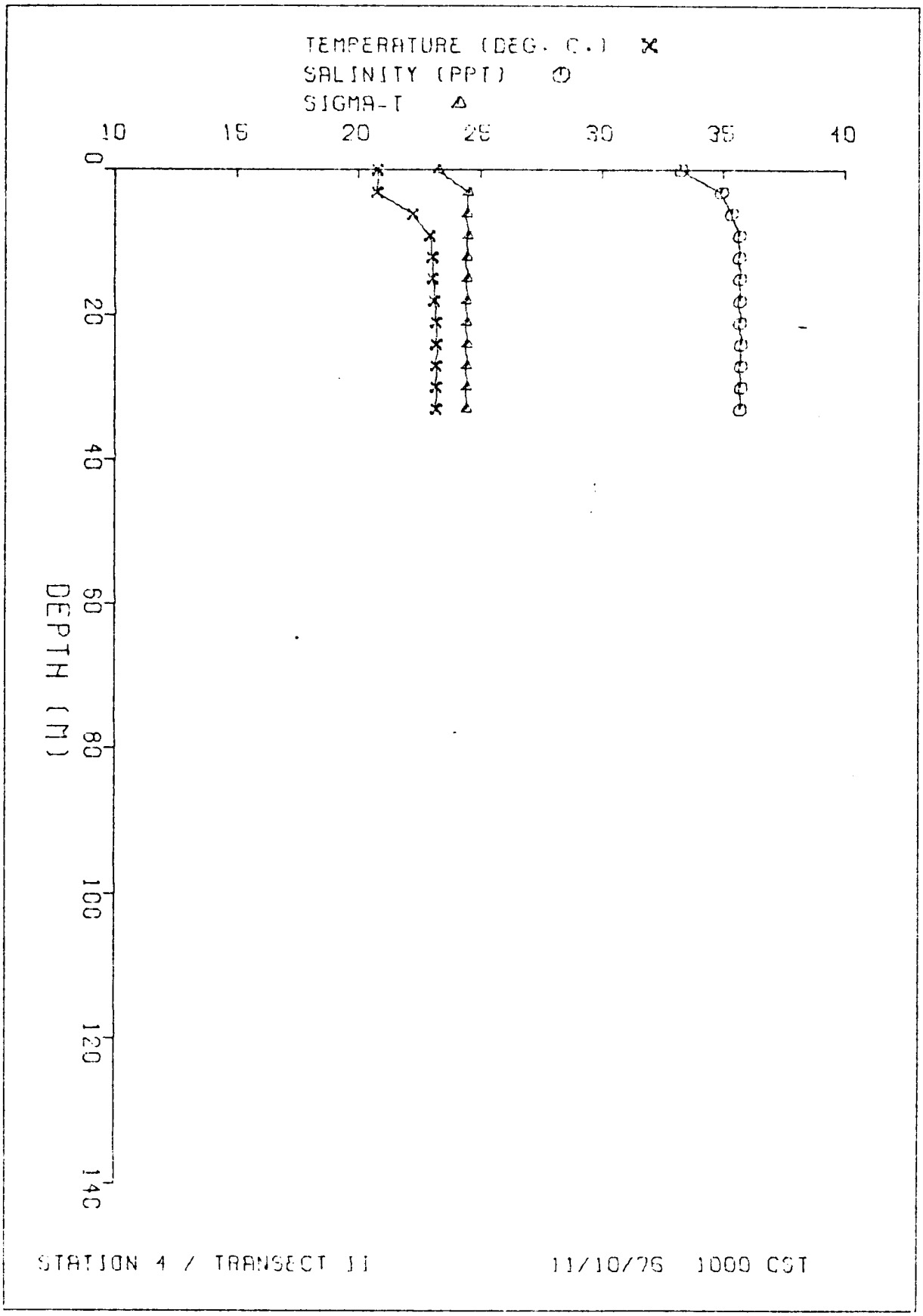
80
100
120
140
DEPTH (M)
STATION 2 / TRANSECT 11
11/9 /76 2130 CST


TEMPERATURE (DEG. C.) X
SALINITY (PPT) Φ
SIGMA-T Δ
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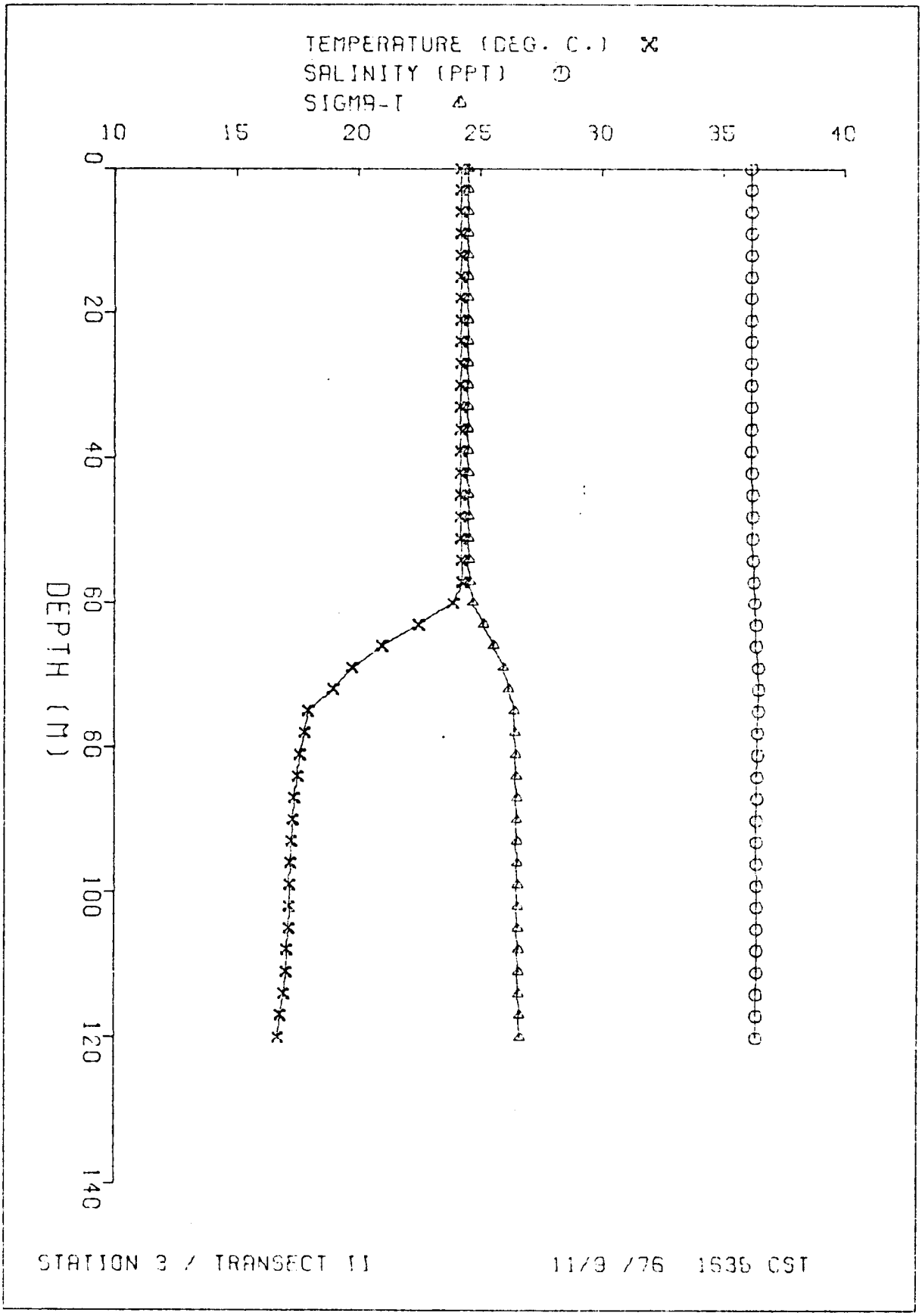
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 4 / TRANSECT 11
11/10/76 1000 CST

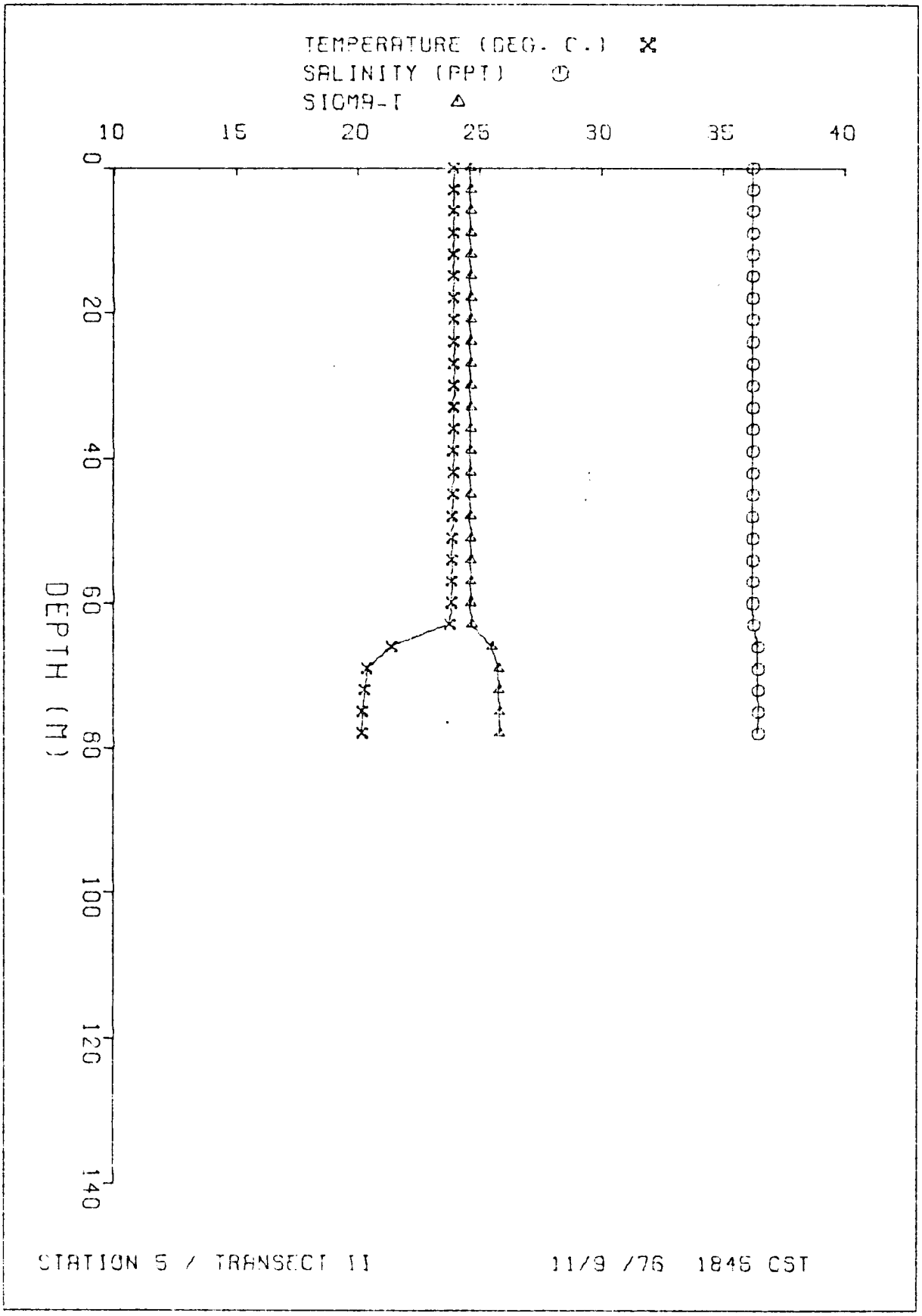
HYDROGRAPHIC CAST DATA STATION 3 / TRANSECT II
11/ 9/76 1635 CST SAMPLE CODE UWO

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	24.17	36.15	24.48	346.0	0.00	0.00	1534.1	3.3
3.0	24.17	36.15	24.48	346.4	.10	.00	1534.2	3.3
6.0	24.17	36.15	24.48	346.5	.21	.01	1534.2	3.3
9.0	24.17	36.15	24.48	346.6	.31	.01	1534.3	3.3
12.0	24.17	36.15	24.48	346.7	.42	.03	1534.3	3.3
15.0	24.17	36.15	24.48	346.8	.52	.04	1534.4	3.3
18.0	24.17	36.15	24.48	346.9	.62	.06	1534.4	3.3
21.0	24.17	36.15	24.48	347.0	.73	.08	1534.5	3.3
24.0	24.17	36.15	24.48	347.1	.83	.10	1534.5	3.3
27.0	24.17	36.15	24.48	347.2	.94	.13	1534.6	3.3
30.0	24.17	36.15	24.48	347.3	1.04	.16	1534.6	3.3
33.0	24.17	36.15	24.48	347.4	1.15	.19	1534.7	3.3
36.0	24.17	36.15	24.48	347.5	1.25	.23	1534.7	3.3
39.0	24.17	36.15	24.48	347.6	1.36	.27	1534.8	18.0
42.0	24.17	36.17	24.50	346.2	1.46	.31	1534.8	25.2
45.0	24.17	36.19	24.52	344.9	1.56	.36	1534.9	18.0
48.0	24.17	36.19	24.52	345.0	1.67	.41	1535.0	0.0
51.0	24.19	36.19	24.51	345.6	1.77	.46	1535.1	18.1
54.0	24.22	36.23	24.53	343.7	1.87	.52	1535.2	29.8
57.0	24.25	36.27	24.55	341.8	1.98	.58	1535.4	57.0
60.0	23.86	36.30	24.69	328.9	2.08	.64	1534.6	109.5
63.0	22.46	36.35	25.13	286.6	2.17	.70	1531.2	133.5
66.0	20.96	36.35	25.55	246.7	2.25	.75	1527.4	129.6
69.0	19.74	36.44	25.95	209.1	2.32	.80	1524.3	111.8
72.0	18.96	36.45	26.16	189.2	2.38	.84	1522.2	96.9
75.0	17.93	36.43	26.41	165.9	2.43	.88	1519.2	72.7
78.0	17.79	36.40	26.42	164.9	2.48	.92	1518.9	35.5
81.0	17.59	36.40	26.47	160.3	2.53	.96	1518.3	33.3
84.0	17.51	36.38	26.47	159.9	2.58	1.00	1518.1	29.2
87.0	17.36	36.38	26.51	156.5	2.63	1.04	1517.7	23.2
90.0	17.31	36.35	26.50	157.6	2.68	1.08	1517.6	9.3
93.0	17.25	36.35	26.51	156.3	2.72	1.13	1517.5	22.6
96.0	17.21	36.35	26.52	155.5	2.77	1.17	1517.4	18.9
99.0	17.18	36.36	26.53	154.9	2.82	1.22	1517.3	16.1
102.0	17.16	36.36	26.54	154.5	2.86	1.27	1517.3	12.6
105.0	17.15	36.36	26.54	154.3	2.91	1.32	1517.4	22.5
108.0	17.06	36.36	26.56	152.3	2.96	1.37	1517.1	23.6
111.0	17.04	36.36	26.57	152.0	3.00	1.42	1517.1	16.9
114.0	16.94	36.34	26.57	151.2	3.05	1.47	1516.8	30.4
117.0	16.79	36.34	26.61	147.9	3.09	1.53	1516.4	35.2
120.0	16.69	36.34	26.63	145.7	3.14	1.58	1516.2	31.4


TEMPERATURE (DEG. C.) X
SALINITY (PPT) O
SIGMA-T Δ
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 3 / TRANSECT II
11/3 /76 1535 CST

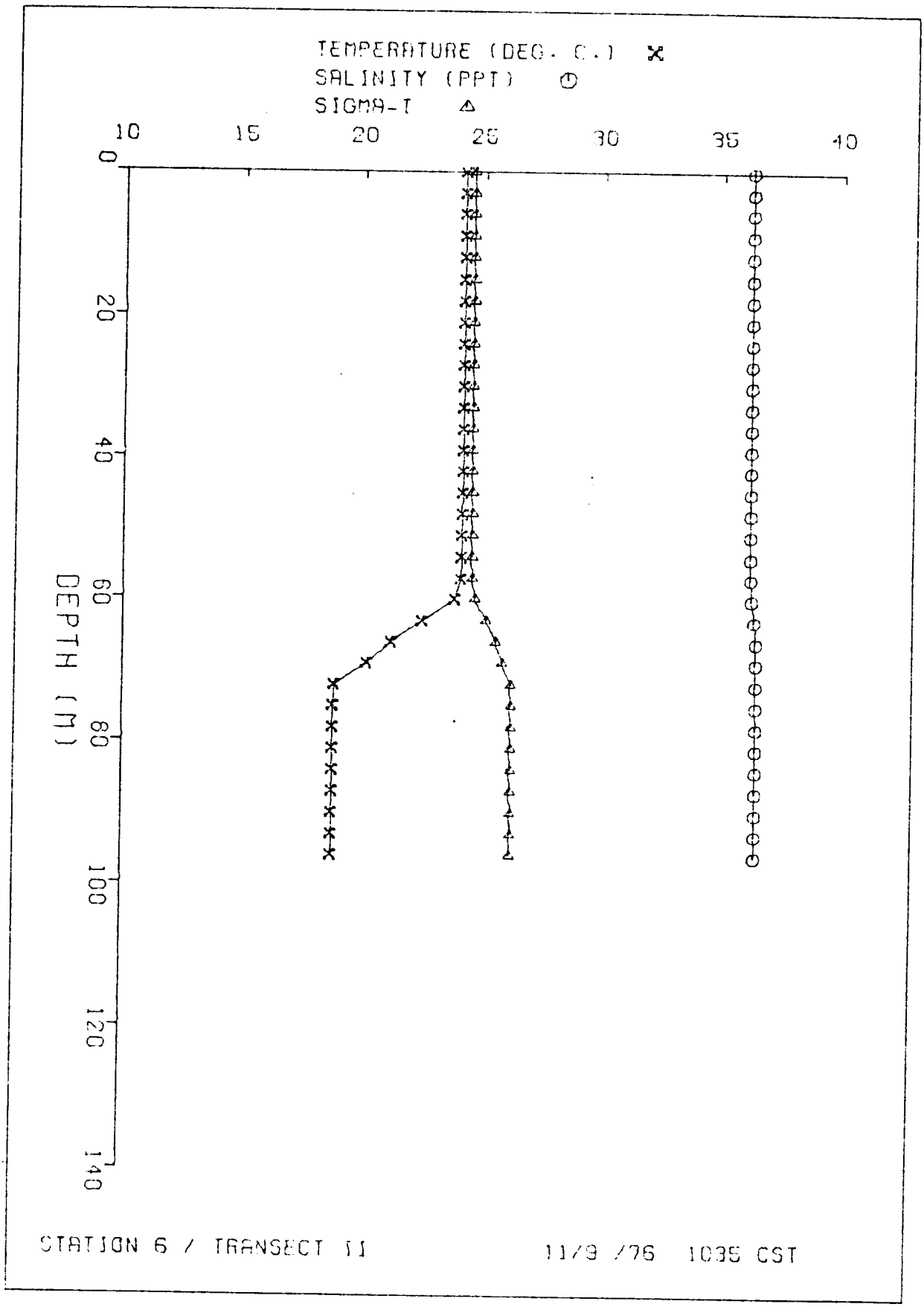
HYDROGRAPHIC CAST DATA STATION 5 / TRANSECT II
11/ 9/76 1845 CST SAMPLE CODE UYK

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	23.92	36.22	24.61	333.6	0.00	0.00	1533.6	2.7
3.0	23.92	36.22	24.61	333.9	.10	.00	1533.7	2.7
6.0	23.92	36.22	24.61	334.0	.20	.01	1533.7	2.7
9.0	23.92	36.22	24.61	334.1	.30	.01	1533.8	2.7
12.0	23.92	36.22	24.61	334.2	.40	.02	1533.8	2.7
15.0	23.92	36.22	24.61	334.3	.50	.04	1533.9	2.7
18.0	23.92	36.23	24.61	334.4	.60	.06	1533.9	2.7
21.0	23.93	36.23	24.61	334.5	.70	.08	1534.0	0.0
24.0	23.94	36.23	24.61	334.9	.80	.10	1534.1	0.0
27.0	23.94	36.23	24.61	335.0	.90	.13	1534.1	2.7
30.0	23.94	36.23	24.61	335.1	1.01	.15	1534.2	8.3
33.0	23.93	36.23	24.61	335.0	1.11	.19	1534.2	8.3
36.0	23.93	36.23	24.61	335.1	1.21	.22	1534.2	8.3
39.0	23.92	36.23	24.62	334.9	1.31	.26	1534.3	8.3
42.0	23.92	36.23	24.62	335.0	1.41	.30	1534.3	0.0
45.0	23.90	36.22	24.62	335.2	1.51	.35	1534.3	0.0
48.0	23.88	36.21	24.62	335.5	1.61	.40	1534.3	13.8
51.0	23.87	36.22	24.63	334.6	1.71	.45	1534.3	15.0
54.0	23.87	36.22	24.63	334.7	1.81	.50	1534.4	16.9
57.0	23.85	36.23	24.64	333.5	1.91	.56	1534.4	16.9
60.0	23.86	36.23	24.64	333.6	2.01	.62	1534.5	28.4
63.0	23.78	36.25	24.68	330.0	2.11	.68	1534.3	133.9
66.0	21.38	36.44	25.51	250.9	2.20	.74	1528.6	150.8
69.0	20.38	36.44	25.78	225.1	2.27	.79	1526.0	78.6
72.0	20.28	36.44	25.81	222.6	2.34	.84	1525.8	33.3
75.0	20.18	36.45	25.84	220.1	2.40	.89	1525.5	20.0
78.0	20.18	36.44	25.83	221.0	2.47	.94	1525.6	0.0


TEMPERATURE (DEG. C.) X
SALINITY (PPT) O
SIGMA-T Δ
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 5 / TRANSECT II
11/9 /76 1845 CST

HYDROGRAPHIC CAST DATA STATION 6 / TRANSECT II
11/ 9/76 1035 CST SAMPLE CODE UYL

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	24.14	36.18	24.52	342.7	0.00	0.00	1534.1	0.0
3.0	24.14	36.18	24.52	343.2	.10	.00	1534.2	0.0
6.0	24.14	36.18	24.52	343.3	.21	.01	1534.2	0.0
9.0	24.14	36.16	24.52	343.5	.31	.01	1534.3	0.0
12.0	24.14	36.18	24.51	343.6	.41	.03	1534.3	10.5
15.0	24.12	36.18	24.52	343.2	.52	.04	1534.3	10.5
18.0	24.12	36.18	24.52	343.3	.62	.06	1534.4	0.0
21.0	24.12	36.18	24.52	343.5	.72	.08	1534.4	0.0
24.0	24.12	36.18	24.52	343.6	.83	.10	1534.5	0.0
27.0	24.12	36.18	24.52	343.8	.93	.13	1534.5	0.0
30.0	24.12	36.18	24.52	343.9	1.03	.16	1534.6	0.0
33.0	24.12	36.18	24.52	344.1	1.14	.19	1534.6	0.0
36.0	24.12	36.18	24.52	344.2	1.24	.23	1534.7	0.0
39.0	24.12	36.18	24.52	344.4	1.34	.27	1534.7	0.0
42.0	24.12	36.18	24.52	344.5	1.45	.31	1534.8	12.0
45.0	24.12	36.19	24.53	344.0	1.55	.36	1534.8	14.3
48.0	24.12	36.19	24.53	343.8	1.65	.41	1534.8	13.1
51.0	24.10	36.19	24.53	343.4	1.76	.46	1534.8	10.5
54.0	24.10	36.19	24.53	343.6	1.86	.51	1534.9	18.1
57.0	24.07	36.20	24.55	342.1	1.96	.57	1534.9	51.4
60.0	23.82	36.25	24.66	331.6	2.06	.63	1534.4	110.0
63.0	22.47	36.36	25.14	286.4	2.16	.69	1531.2	136.2
66.0	21.17	36.43	25.56	246.1	2.24	.75	1528.0	119.7
69.0	20.17	36.43	25.83	220.4	2.31	.79	1525.4	113.9
72.0	18.82	36.44	26.19	186.2	2.37	.84	1521.7	87.6
75.0	18.77	36.44	26.20	185.1	2.42	.88	1521.6	20.2
78.0	18.77	36.45	26.21	184.5	2.48	.92	1521.7	12.0
81.0	18.77	36.45	26.21	184.7	2.54	.97	1521.8	0.0
84.0	18.77	36.45	26.21	184.8	2.59	1.02	1521.8	0.0
87.0	18.77	36.45	26.21	185.0	2.65	1.07	1521.9	9.6
90.0	18.75	36.45	26.22	184.6	2.70	1.12	1521.8	9.6
93.0	18.75	36.45	26.22	184.7	2.76	1.17	1521.9	0.0
96.0	18.75	36.45	26.21	184.9	2.81	1.22	1521.9	0.0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SIGMA-T △
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15
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25
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35
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0
20
40
60
80
100
120
140
DEPTH (M)
STATION 6 / TRANSECT 11
11/9 /76 1035 CST

HYDROGRAPHIC CAST DATA STATION 7 / TRACT II
11/ 9/76 1305 CST SAMPLE CODE VNB

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	24.07	36.12	24.49	345.2	0.00	0.00	1533.9	0.0
3.0	24.09	36.12	24.48	346.3	.10	.00	1534.0	0.0
6.0	24.10	36.12	24.48	346.5	.21	.01	1534.0	0.0
9.0	24.10	36.12	24.48	346.7	.31	.01	1534.1	0.0
12.0	24.11	36.12	24.48	346.9	.42	.03	1534.2	0.0
15.0	24.11	36.12	24.48	347.1	.52	.04	1534.2	0.0
18.0	24.11	36.12	24.48	347.3	.63	.06	1534.3	4.9
21.0	24.11	36.12	24.48	347.2	.73	.08	1534.3	14.4
24.0	24.08	36.12	24.49	346.6	.83	.10	1534.3	12.1
27.0	24.08	36.12	24.49	346.8	.94	.13	1534.4	9.3
30.0	24.07	36.12	24.49	346.4	1.04	.16	1534.4	9.3
33.0	24.07	36.12	24.49	346.6	1.15	.19	1534.4	0.0
36.0	24.08	36.12	24.49	346.8	1.25	.23	1534.5	13.4
39.0	24.07	36.13	24.50	346.0	1.35	.27	1534.5	13.4
42.0	24.07	36.13	24.50	346.2	1.46	.31	1534.6	4.9
45.0	24.07	36.13	24.50	346.2	1.56	.36	1534.6	9.3
48.0	24.06	36.13	24.50	346.1	1.67	.41	1534.7	9.3
51.0	24.06	36.13	24.51	346.0	1.77	.46	1534.7	4.9
54.0	24.06	36.13	24.51	346.2	1.88	.52	1534.7	4.9
57.0	24.05	36.14	24.51	346.1	1.98	.58	1534.8	4.9
60.0	24.06	36.14	24.51	346.3	2.08	.64	1534.8	32.8
63.0	23.98	36.18	24.56	341.4	2.19	.71	1534.8	73.7
66.0	23.65	36.33	24.77	321.5	2.29	.77	1534.2	129.3
69.0	21.94	36.47	25.37	264.4	2.38	.83	1530.1	146.3
72.0	20.34	36.47	25.81	222.6	2.45	.89	1526.0	129.8
75.0	18.75	36.42	26.19	186.6	2.51	.93	1521.5	109.2
78.0	17.86	36.39	26.39	167.6	2.56	.97	1519.0	77.6
81.0	17.45	36.38	26.48	158.9	2.61	1.01	1517.9	65.0
84.0	16.99	36.38	26.59	148.2	2.66	1.05	1516.5	58.2
87.0	16.74	36.37	26.65	143.5	2.70	1.09	1515.9	39.9
90.0	16.53	36.34	26.67	141.1	2.74	1.13	1515.2	32.0
93.0	16.24	36.28	26.70	138.9	2.79	1.17	1514.3	28.4
96.0	16.17	36.28	26.71	137.5	2.83	1.21	1514.2	30.2
99.0	16.02	36.27	26.74	134.8	2.87	1.25	1513.7	36.4
102.0	15.83	36.26	26.78	131.5	2.91	1.29	1513.2	33.7
105.0	15.64	36.23	26.80	129.7	2.95	1.33	1512.6	0.0
108.0	15.65	36.19	26.76	132.8	2.99	1.38	1512.6	8.4
111.0	15.46	36.18	26.80	129.6	3.03	1.42	1512.1	29.2
114.0	15.37	36.16	26.81	129.0	3.07	1.47	1511.8	21.1
117.0	15.30	36.16	26.82	127.7	3.11	1.51	1511.7	11.8
120.0	15.30	36.15	26.81	128.6	3.14	1.56	1511.7	6.9
123.0	15.26	36.15	26.82	127.6	3.18	1.61	1511.6	24.1
126.0	15.11	36.13	26.84	126.0	3.22	1.66	1511.2	22.6
129.0	15.04	36.12	26.85	125.4	3.26	1.71	1511.0	0.0
132.0	15.02	36.10	26.84	126.4	3.30	1.76	1511.0	0.0
135.0	14.96	36.09	26.84	126.0	3.34	1.81	1510.8	8.3
138.0	14.94	36.08	26.84	126.3	3.37	1.86	1510.8	9.5
141.0	14.91	36.08	26.85	125.8	3.41	1.92	1510.7	19.6
144.0	14.85	36.08	26.86	124.7	3.45	1.97	1510.6	15.7
147.0	14.79	36.06	26.86	124.8	3.49	2.03	1510.4	8.3

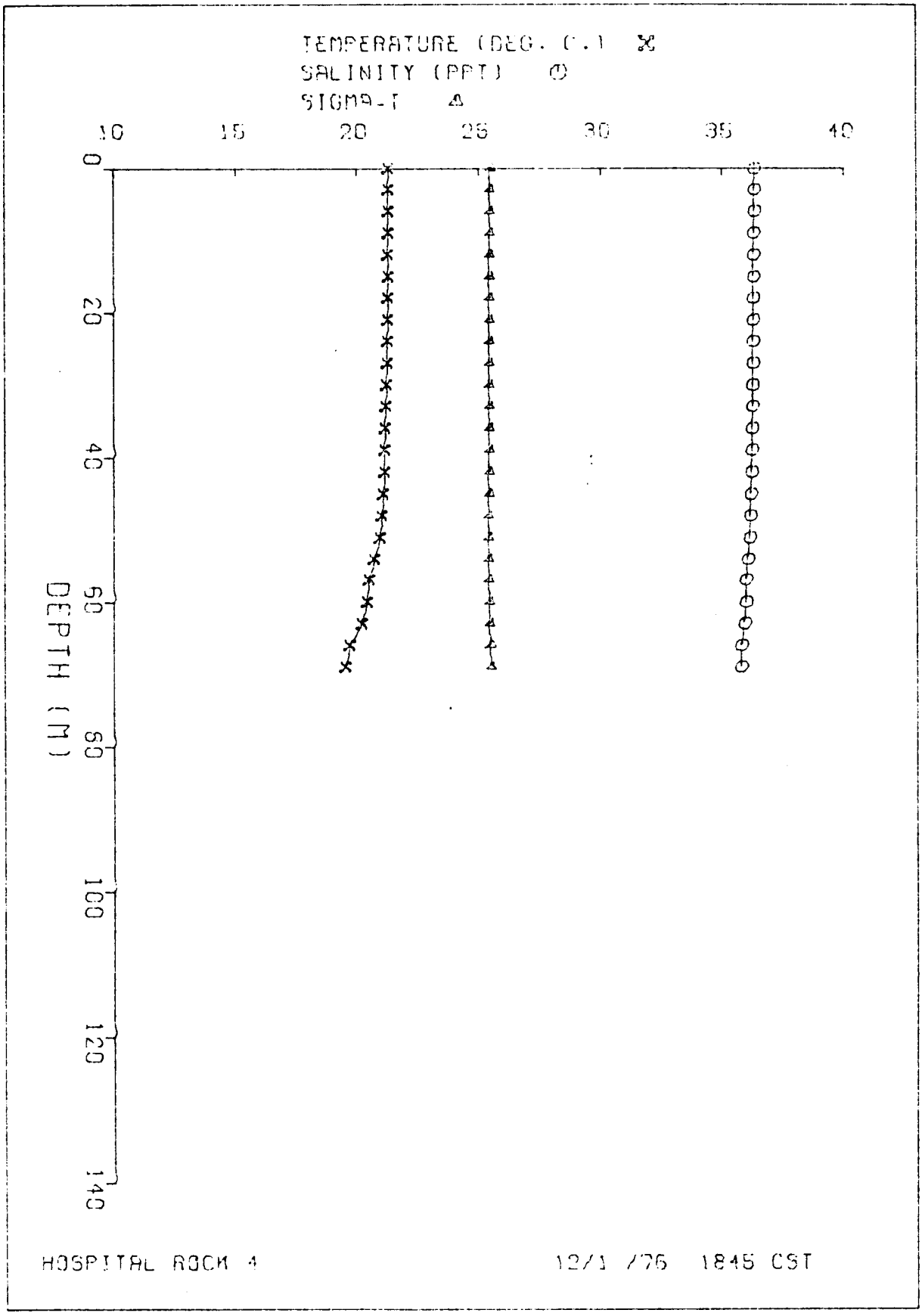
150.0	14.70	36.04	26.86	124.5	3.52	2.08	1510.2	20.6
153.0	14.63	36.05	26.88	123.0	3.56	2.14	1510.0	18.9
156.0	14.59	36.04	26.88	123.0	3.60	2.20	1509.9	15.5
159.0	14.50	36.03	26.89	122.0	3.64	2.26	1509.7	21.5
162.0	14.42	36.02	26.90	121.0	3.67	2.32	1509.4	17.9
165.0	14.29	35.99	26.91	120.7	3.71	2.38	1509.0	17.3
168.0	14.24	35.99	26.92	119.8	3.75	2.44	1508.9	19.3
171.0	14.21	35.99	26.93	119.1	3.78	2.51	1508.9	13.1
174.0	14.17	35.98	26.93	119.2	3.82	2.57	1508.8	0.0
177.0	14.17	35.97	26.92	119.8	3.85	2.64	1508.8	14.8
180.0	13.98	35.94	26.94	118.3	3.89	2.70	1508.2	26.3

HYDROGRAPHIC CAST DATA HOSPITAL ROCK 4
12/ 1/76 1845 CST SAMPLE CODE VWG

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	21.27	36.33	25.45	253.8	0.00	0.00	1527.1	0.0
3.0	21.26	36.32	25.45	254.5	.08	.00	1527.1	0.0
6.0	21.26	36.31	25.44	255.2	.15	.00	1527.1	0.0
9.0	21.26	36.30	25.44	255.9	.23	.01	1527.2	0.0
12.0	21.25	36.29	25.43	256.3	.31	.02	1527.2	0.0
15.0	21.26	36.29	25.42	257.3	.38	.03	1527.2	0.0
18.0	21.25	36.28	25.42	257.7	.46	.04	1527.3	0.0
21.0	21.24	36.27	25.42	258.1	.54	.06	1527.3	0.0
24.0	21.23	36.26	25.41	258.6	.62	.08	1527.3	0.0
27.0	21.22	36.25	25.41	259.0	.69	.10	1527.3	0.0
30.0	21.19	36.24	25.41	258.9	.77	.12	1527.3	9.3
33.0	21.16	36.24	25.41	258.8	.85	.14	1527.2	0.0
36.0	21.12	36.22	25.41	259.5	.93	.17	1527.2	0.0
39.0	21.10	36.21	25.41	259.6	1.01	.20	1527.1	0.0
42.0	21.09	36.19	25.40	260.8	1.08	.23	1527.1	0.0
45.0	21.03	36.17	25.40	260.7	1.16	.27	1527.0	0.0
48.0	20.97	36.14	25.39	262.0	1.24	.31	1526.9	0.0
51.0	20.89	36.11	25.39	262.0	1.32	.35	1526.7	0.0
54.0	20.65	36.02	25.39	262.3	1.40	.39	1526.0	0.0
57.0	20.44	35.94	25.38	262.7	1.48	.43	1525.4	20.3
60.0	20.36	35.94	25.41	260.6	1.56	.48	1525.2	24.8
63.0	20.14	35.87	25.41	260.0	1.64	.53	1524.6	27.3
66.0	19.63	35.74	25.44	257.3	1.71	.58	1523.1	36.5
69.0	19.47	35.73	25.48	254.0	1.79	.64	1522.7	38.3

HYDROGRAPHIC CAST DATA SOUTHERN BANK 2
12/ 1/76 2230 CST SAMPLE CODE VXB

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	21.20	36.26	25.42	257.1	0.00	0.00	1526.8	5.1
3.0	21.19	36.25	25.42	257.4	.08	.00	1526.8	5.1
6.0	21.18	36.25	25.42	257.5	.15	.00	1526.8	5.1
9.0	21.17	36.25	25.42	257.5	.23	.01	1526.9	5.1
12.0	21.16	36.24	25.42	257.6	.31	.02	1526.9	5.1
15.0	21.15	36.24	25.42	257.6	.39	.03	1526.9	0.0
18.0	21.14	36.23	25.41	258.4	.46	.04	1526.9	0.0
21.0	21.13	36.23	25.41	258.5	.54	.06	1526.9	13.5
24.0	21.12	36.23	25.42	257.8	.62	.08	1527.0	13.5
27.0	21.11	36.23	25.42	257.6	.70	.10	1527.0	5.1
30.0	21.10	36.23	25.42	257.9	.78	.12	1527.0	5.1
33.0	21.09	36.23	25.42	257.9	.85	.14	1527.0	0.0
36.0	21.08	36.21	25.42	258.7	.93	.17	1527.0	0.0
39.0	21.07	36.21	25.42	258.8	1.01	.20	1527.1	11.8
42.0	21.04	36.21	25.42	258.3	1.09	.23	1527.0	14.0
45.0	21.02	36.20	25.43	258.1	1.16	.27	1527.0	9.0
48.0	21.01	36.20	25.43	258.2	1.24	.31	1527.0	5.0
51.0	21.00	36.20	25.43	258.2	1.32	.35	1527.1	5.0
54.0	20.99	36.20	25.43	258.3	1.40	.39	1527.1	0.0
57.0	21.00	36.19	25.42	258.8	1.47	.43	1527.1	9.0
60.0	20.96	36.19	25.43	258.1	1.55	.48	1527.1	15.8
63.0	20.94	36.19	25.44	257.9	1.63	.53	1527.1	0.0
66.0	20.92	36.17	25.43	258.4	1.71	.58	1527.1	0.0
69.0	20.91	36.16	25.42	259.2	1.79	.63	1527.1	0.0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SIGMA-T Δ
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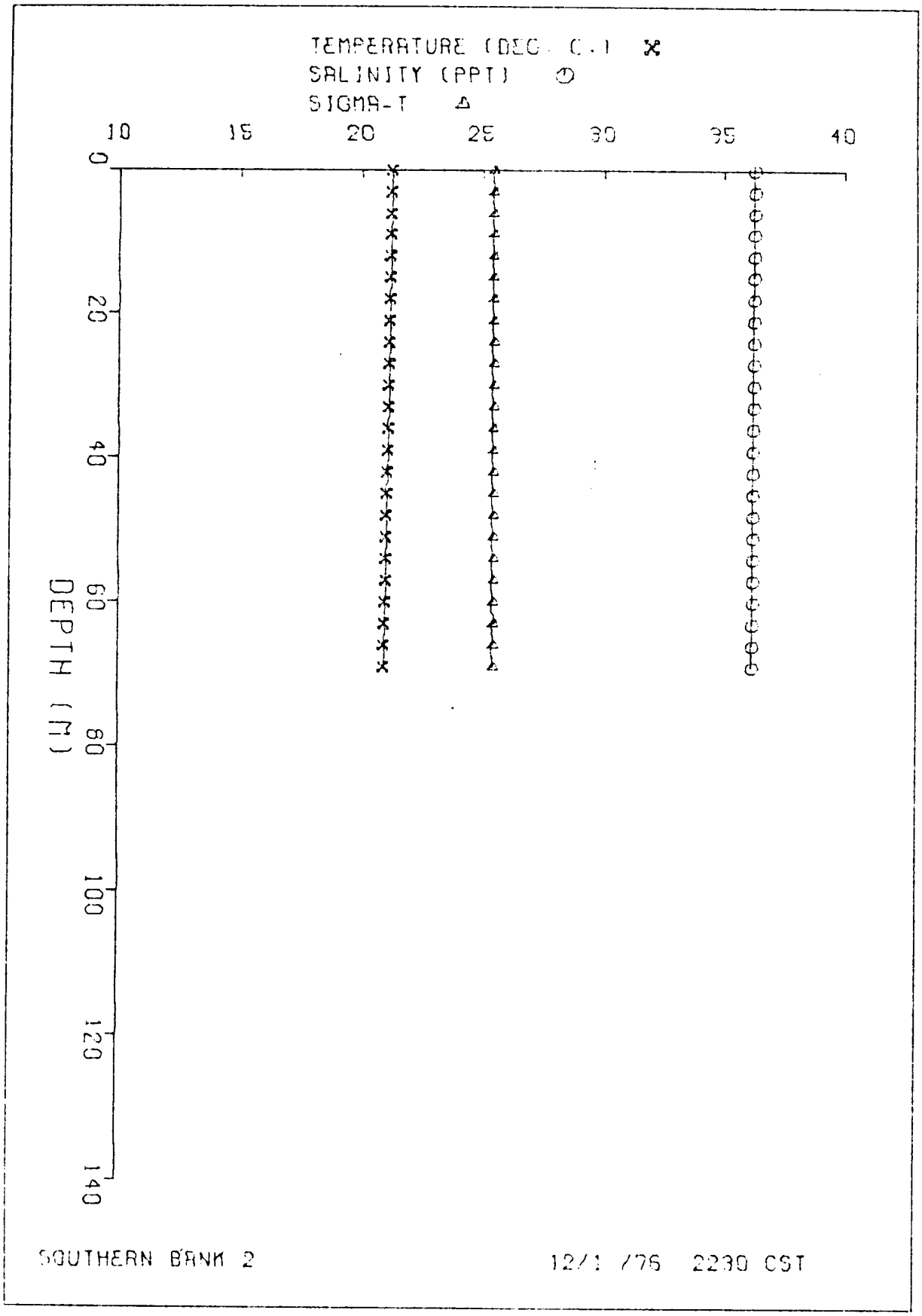
140
DEPTH (M)
HOSPITAL ROCK 4
12/1 /76 1845 CST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SALINITY (PPT) O
SIGMA-T Δ
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35
40
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40
60
80
100
120
140
DEPTH (M)
SOUTHERN BANK 2
12/1 /76 2230 CST

HYDROGRAPHIC CAST DATA STATION 1 / TRANSECT II
12/ 1/76 1255 CST SAMPLE CODE VWR

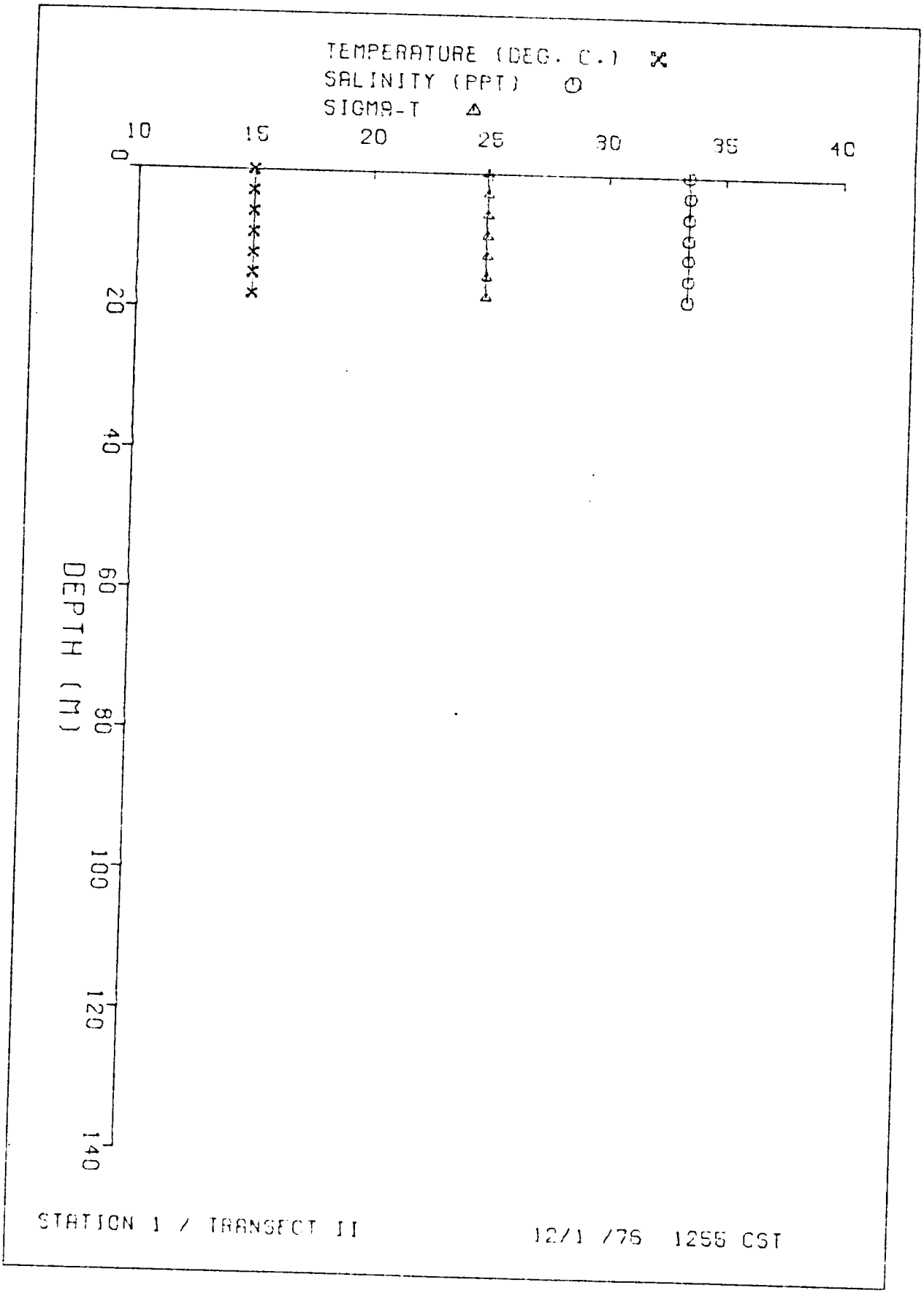
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	14.89	33.43	24.81	315.1	0.00	0.00	1505.1	35.7
3.0	14.89	33.47	24.84	312.5	.09	.00	1505.2	21.0
6.0	14.90	33.46	24.83	313.5	.19	.01	1505.3	0.0
9.0	14.89	33.46	24.83	313.5	.28	.01	1505.3	0.0
12.0	14.89	33.45	24.82	314.3	.38	.02	1505.3	0.0
15.0	14.89	33.44	24.81	315.1	.47	.04	1505.4	0.0
18.0	14.89	33.43	24.81	315.9	.57	.05	1505.4	0.0

HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT II
12/ 2/76 1740 CST SAMPLE CODE VSL

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	18.89	35.59	25.52	247.5	0.00	0.00	1519.7	13.9
3.0	18.90	35.60	25.52	247.4	.07	.00	1519.8	15.6
6.0	18.91	35.61	25.53	246.8	.15	.00	1519.9	17.2
9.0	18.91	35.62	25.54	246.2	.22	.01	1520.0	17.2
12.0	18.91	35.63	25.54	245.7	.30	.02	1520.1	17.2
15.0	18.92	35.64	25.55	245.1	.37	.03	1520.1	18.7
18.0	18.91	35.65	25.56	244.3	.44	.04	1520.2	22.5
21.0	18.91	35.67	25.58	243.0	.52	.06	1520.3	28.7
24.0	18.91	35.70	25.60	240.7	.59	.07	1520.3	27.7
27.0	19.01	35.75	25.61	239.6	.66	.09	1520.7	25.7
30.0	19.03	35.78	25.63	237.9	.73	.11	1520.8	32.0
33.0	19.18	35.87	25.66	235.1	.81	.14	1521.4	31.0
36.0	19.26	35.92	25.68	233.6	.88	.16	1521.8	23.4
39.0	19.32	35.95	25.69	232.8	.95	.19	1522.0	17.0
42.0	19.36	35.97	25.69	232.5	1.02	.22	1522.2	13.5

HYDROGRAPHIC CAST DATA STATION 4 / TRANSECT II
12/ 1/76 1530 CST SAMPLE CODE VWC

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	19.57	36.09	25.73	227.5	0.00	0.00	1522.2	22.5
3.0	19.57	36.11	25.74	226.7	.07	.00	1522.3	23.7
6.0	19.56	36.12	25.75	225.4	.14	.00	1522.3	24.8
9.0	19.55	36.14	25.77	224.1	.20	.01	1522.4	24.8
12.0	19.54	36.16	25.78	222.8	.27	.02	1522.4	24.8
15.0	19.53	36.17	25.80	221.5	.34	.03	1522.5	24.8
18.0	19.53	36.19	25.81	220.2	.40	.04	1522.5	24.8
21.0	19.52	36.21	25.83	218.9	.47	.05	1522.6	25.9
24.0	19.50	36.22	25.85	217.3	.54	.07	1522.6	28.9
27.0	19.43	36.23	25.87	215.2	.60	.08	1522.4	27.9
30.0	19.42	36.24	25.88	213.9	.67	.10	1522.5	24.8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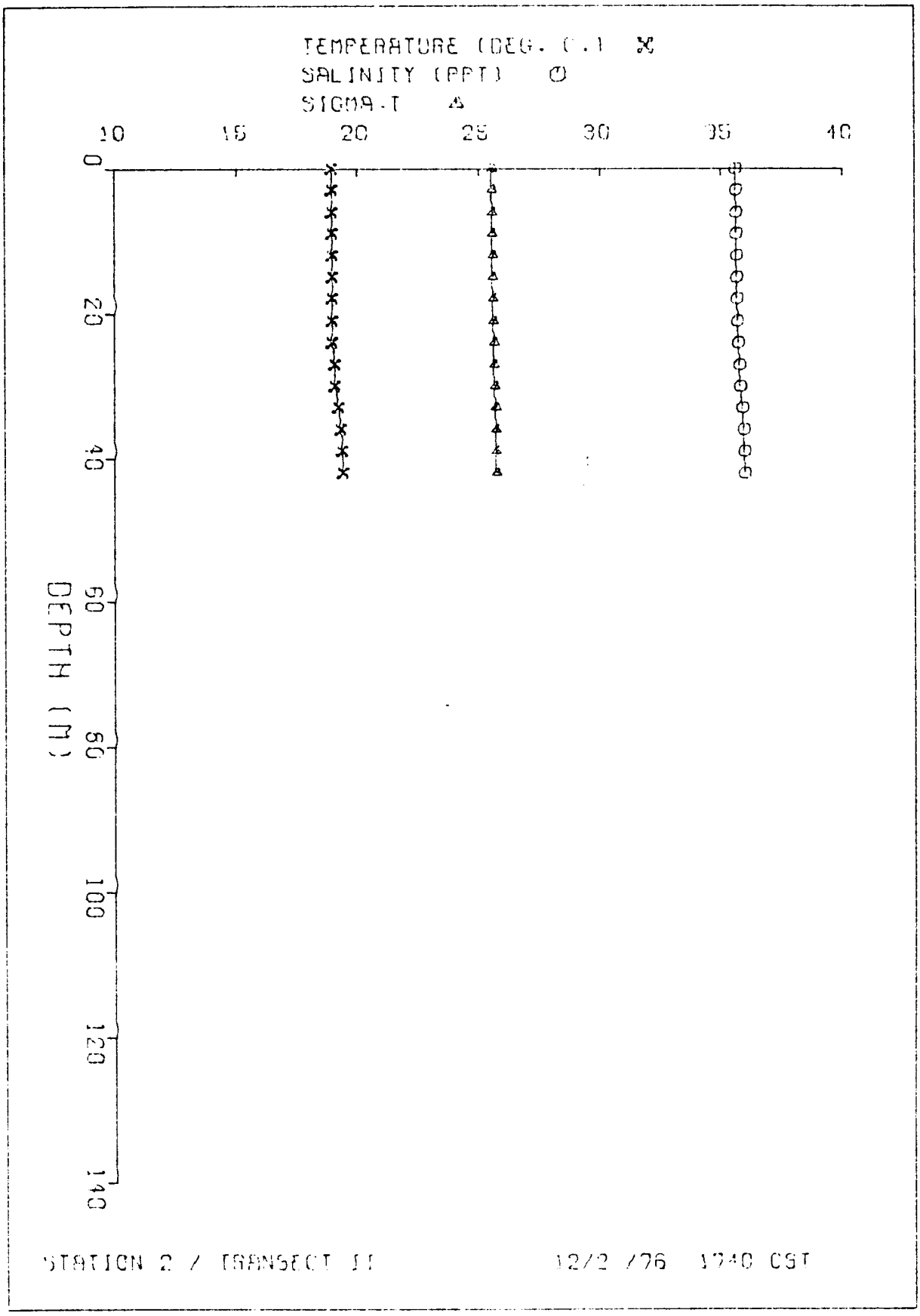
140
DEPTH (M)
STATION 1 / TRANSECT II
12/1 /76 1255 CST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SALINITY (PPT) O
SIGMA-T Δ
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15
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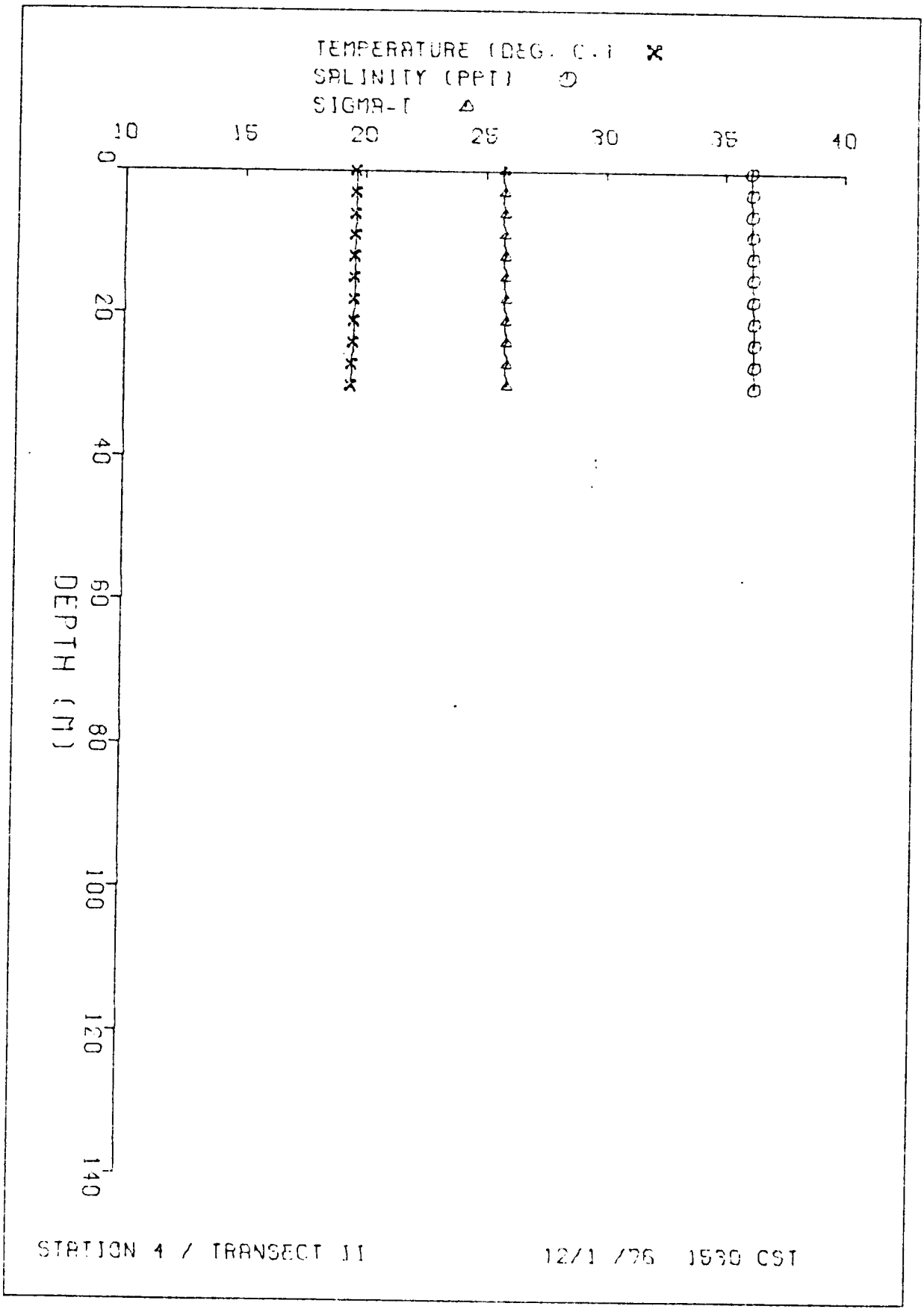
60
80
100
120
140
DEPTH (M)
STATION 2 / TRANSECT II
12/2 /76 1740 CST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SIGMA-T
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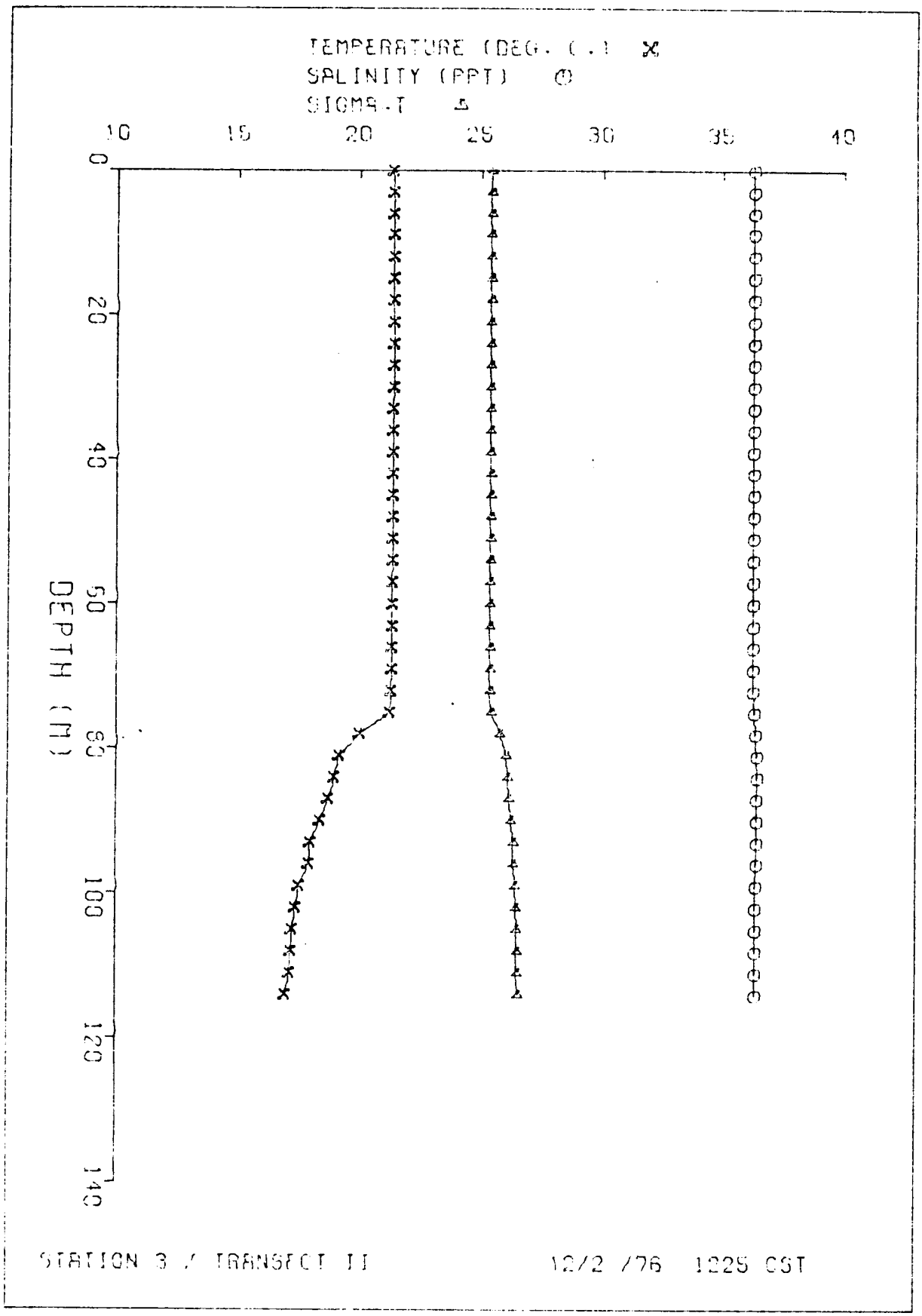
40
60
80
100
120
140
DEPTH (M)
STATION 4 / TRANSECT II
12/1 /76 1530 CST

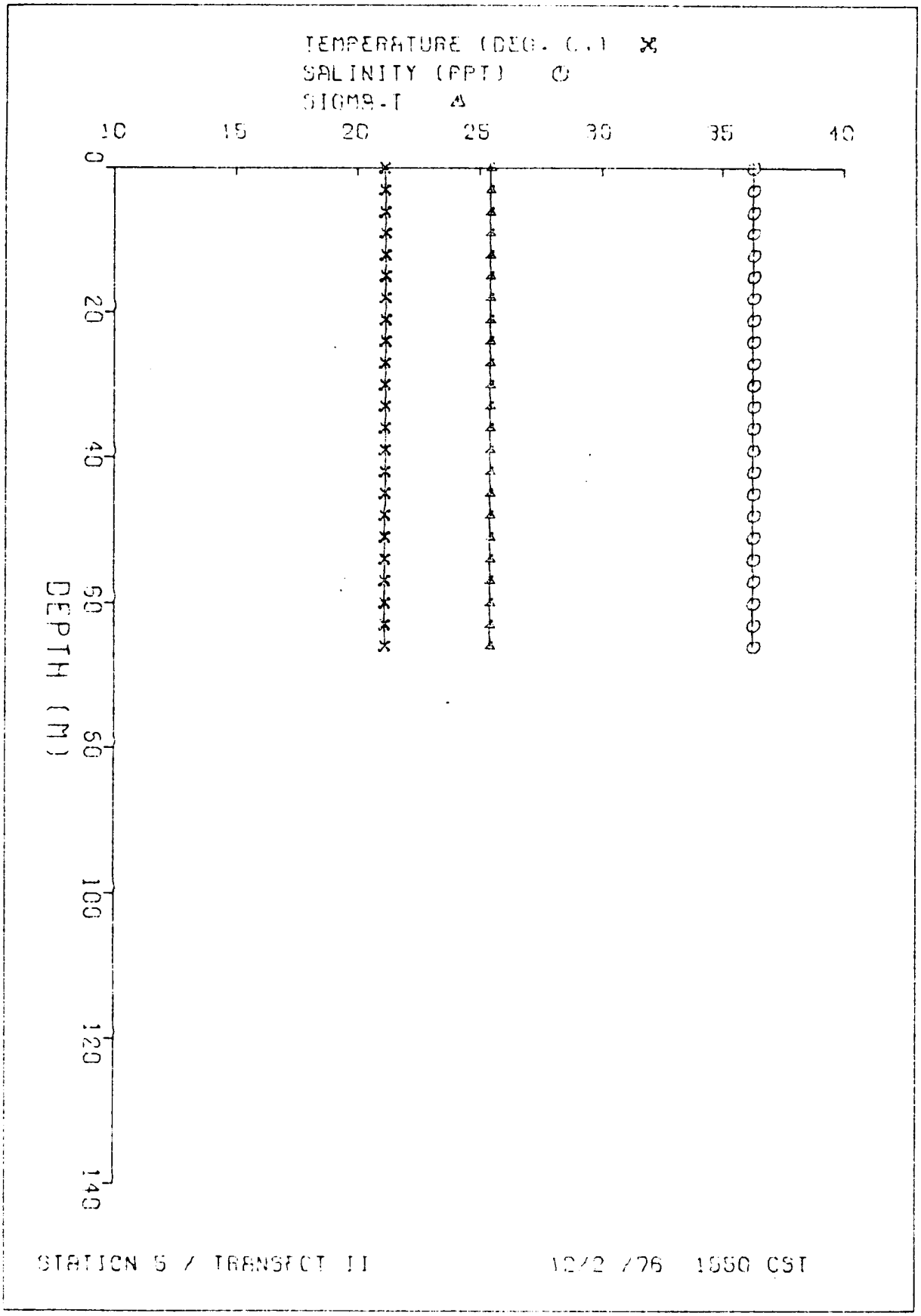
HYDROGRAPHIC CAST DATA STATION 3 / TRANSECT II
12/ 2/76 1225 CST SAMPLE CODE VUV

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	21.34	36.29	25.41	258.1	0.00	0.00	1527.2	0.0
3.0	21.37	36.29	25.40	259.3	.08	.00	1527.3	0.0
6.0	21.37	36.29	25.40	259.5	.16	.00	1527.4	0.0
9.0	21.38	36.29	25.39	260.3	.23	.01	1527.5	0.0
12.0	21.38	36.29	25.39	260.5	.31	.02	1527.5	10.9
15.0	21.38	36.29	25.39	260.0	.39	.03	1527.6	10.9
18.0	21.38	36.29	25.39	260.2	.47	.04	1527.6	0.0
21.0	21.40	36.29	25.39	260.9	.55	.06	1527.7	0.0
24.0	21.40	36.29	25.39	261.1	.63	.08	1527.8	0.0
27.0	21.39	36.29	25.39	261.3	.70	.10	1527.8	0.0
30.0	21.39	36.28	25.38	261.5	.78	.12	1527.8	8.7
33.0	21.37	36.28	25.39	261.2	.86	.15	1527.8	8.7
36.0	21.37	36.28	25.39	261.4	.94	.17	1527.9	0.0
39.0	21.37	36.28	25.39	261.6	1.02	.20	1527.9	10.9
42.0	21.36	36.29	25.39	261.1	1.10	.24	1528.0	10.9
45.0	21.36	36.28	25.39	261.3	1.18	.27	1528.0	0.0
48.0	21.36	36.28	25.39	261.5	1.25	.31	1528.0	0.0
51.0	21.36	36.28	25.39	261.7	1.33	.35	1528.1	0.0
54.0	21.36	36.28	25.39	261.9	1.41	.39	1528.1	0.0
57.0	21.36	36.28	25.39	262.1	1.49	.44	1528.2	0.0
60.0	21.35	36.28	25.39	262.3	1.57	.48	1528.2	0.0
63.0	21.35	36.27	25.39	262.5	1.65	.53	1528.3	8.7
66.0	21.33	36.27	25.39	262.2	1.73	.59	1528.2	8.7
69.0	21.33	36.27	25.39	262.4	1.81	.64	1528.3	11.5
72.0	21.30	36.27	25.40	261.8	1.89	.70	1528.3	38.9
75.0	21.24	36.34	25.46	255.6	1.96	.76	1528.2	95.3
78.0	19.99	36.38	25.84	220.0	2.03	.81	1525.0	113.9
81.0	19.16	36.43	26.09	195.8	2.10	.86	1522.8	82.2
84.0	18.96	36.46	26.17	189.0	2.15	.91	1522.3	47.8
87.0	18.72	36.43	26.21	185.5	2.21	.96	1521.7	49.7
90.0	18.38	36.43	26.29	177.7	2.27	1.01	1520.8	61.2
93.0	17.98	36.42	26.39	168.4	2.32	1.06	1519.7	44.3
96.0	17.93	36.40	26.38	168.8	2.37	1.11	1519.5	38.1
99.0	17.53	36.37	26.46	161.8	2.42	1.16	1518.4	47.1
102.0	17.39	36.37	26.49	158.7	2.47	1.21	1518.0	36.2
105.0	17.26	36.37	26.52	155.9	2.51	1.26	1517.7	29.3
108.0	17.20	36.36	26.53	155.0	2.56	1.31	1517.6	21.4
111.0	17.15	36.36	26.54	154.0	2.61	1.36	1517.5	33.1
114.0	16.97	36.36	26.59	150.1	2.65	1.42	1517.0	41.7


TEMPERATURE (DEG. C.) X
SALINITY (PPT) @
SIGMA-T Δ
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (CM)
STATION 3 / TRANSECT II
12/2 /76 1225 CST

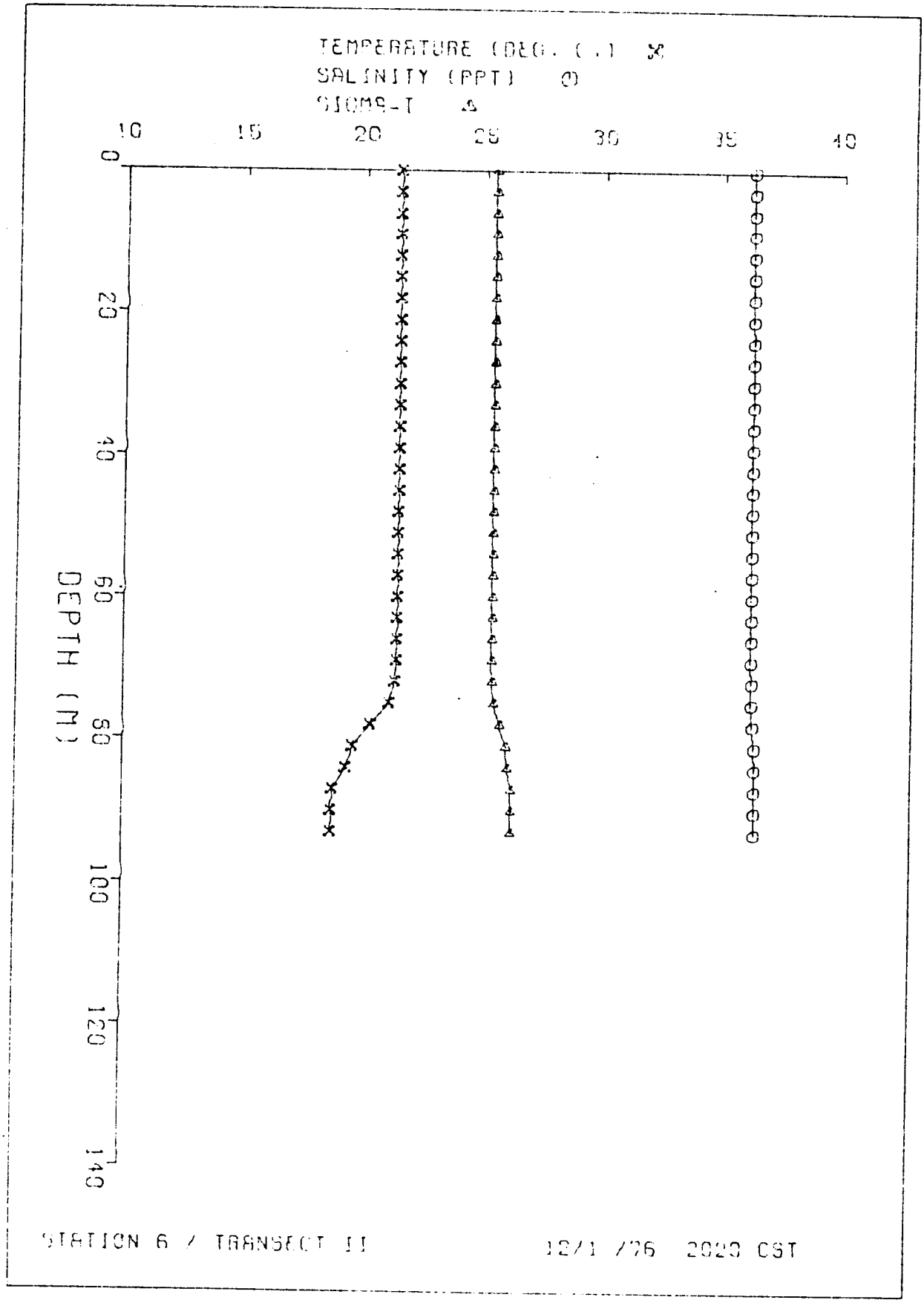
HYDROGRAPHIC CAST DATA STATION 5 / TRANSECT II
12/ 2/76 1550 CST SAMPLE CODE VWD

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	21.11	36.27	25.45	253.6	0.00	0.00	1526.6	0.0
3.0	21.12	36.27	25.45	254.3	.08	.00	1526.7	0.0
6.0	21.13	36.27	25.45	254.7	.15	.00	1526.7	0.0
9.0	21.14	36.27	25.44	255.3	.23	.01	1526.8	0.0
12.0	21.14	36.27	25.44	255.5	.31	.02	1526.9	0.0
15.0	21.14	36.27	25.44	255.7	.38	.03	1526.9	0.0
18.0	21.14	36.26	25.44	255.8	.46	.04	1526.9	0.0
21.0	21.13	36.26	25.44	256.0	.54	.06	1527.0	0.0
24.0	21.13	36.26	25.44	256.1	.61	.08	1527.0	0.0
27.0	21.13	36.26	25.44	256.3	.69	.10	1527.1	0.0
30.0	21.13	36.26	25.44	256.4	.77	.12	1527.1	0.0
33.0	21.12	36.26	25.44	256.6	.85	.14	1527.2	0.0
36.0	21.12	36.26	25.44	256.7	.92	.17	1527.2	0.0
39.0	21.12	36.25	25.44	256.9	1.00	.20	1527.2	0.0
42.0	21.12	36.25	25.44	257.0	1.08	.23	1527.3	0.0
45.0	21.12	36.25	25.44	257.2	1.15	.27	1527.3	0.0
48.0	21.11	36.25	25.44	257.3	1.23	.30	1527.4	11.8
51.0	21.11	36.26	25.44	256.8	1.31	.34	1527.4	11.8
54.0	21.11	36.26	25.44	256.9	1.39	.38	1527.5	11.8
57.0	21.11	36.27	25.45	256.3	1.46	.43	1527.5	9.1
60.0	21.11	36.26	25.45	256.8	1.54	.47	1527.6	0.0
63.0	21.11	36.26	25.45	256.9	1.62	.52	1527.6	0.0
66.0	21.12	36.26	25.44	257.3	1.70	.57	1527.7	0.0


TEMPERATURE (DEG. C.) X
SALINITY (PPT) O
SIGMA-T Δ
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 5 / TRANSECT II
12/2 /76 1550 CST

HYDROGRAPHIC CAST DATA STATION 6 / TRANSECT II
12/ 1/76 2020 CST SAMPLE CODE VWE

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	21.39	36.26	25.37	261.9	0.00	0.00	1527.3	0.0
3.0	21.39	36.26	25.37	262.3	.08	.00	1527.4	0.0
6.0	21.39	36.26	25.37	262.4	.16	.00	1527.4	0.0
9.0	21.40	36.26	25.36	262.8	.24	.01	1527.5	0.0
12.0	21.40	36.26	25.36	262.9	.32	.02	1527.5	0.0
15.0	21.40	36.26	25.36	263.0	.39	.03	1527.6	0.0
18.0	21.41	36.26	25.36	263.4	.47	.04	1527.6	0.0
21.0	21.41	36.26	25.36	263.5	.55	.06	1527.7	12.5
24.0	21.40	36.27	25.37	262.9	.63	.08	1527.8	12.5
27.0	21.40	36.27	25.37	263.0	.71	.10	1527.8	0.0
30.0	21.40	36.27	25.37	263.2	.79	.12	1527.8	0.0
33.0	21.40	36.27	25.37	263.3	.87	.15	1527.9	0.0
36.0	21.40	36.26	25.37	263.4	.95	.18	1527.9	0.0
39.0	21.40	36.26	25.37	263.5	1.03	.21	1528.0	0.0
42.0	21.40	36.26	25.37	263.6	1.11	.24	1528.0	0.0
45.0	21.40	36.26	25.37	263.7	1.19	.27	1528.1	0.0
48.0	21.40	36.26	25.37	263.9	1.27	.31	1528.1	0.0
51.0	21.40	36.26	25.37	264.0	1.35	.35	1528.2	0.0
54.0	21.40	36.26	25.37	264.1	1.43	.39	1528.2	0.0
57.0	21.40	36.26	25.37	264.2	1.50	.44	1528.3	0.0
60.0	21.40	36.26	25.37	264.3	1.58	.49	1528.3	7.5
63.0	21.39	36.26	25.37	264.2	1.66	.54	1528.3	10.6
66.0	21.38	36.26	25.37	264.0	1.74	.59	1528.4	7.5
69.0	21.38	36.26	25.37	264.1	1.82	.65	1528.4	25.6
72.0	21.31	36.28	25.40	261.2	1.90	.70	1528.3	46.0
75.0	21.08	36.29	25.48	254.6	1.98	.76	1527.8	82.5
78.0	20.29	36.35	25.73	230.0	2.05	.82	1525.8	103.1
81.0	19.55	36.43	25.99	205.6	2.12	.87	1523.9	83.6
84.0	19.29	36.45	26.07	197.8	2.18	.92	1523.3	68.0
87.0	18.74	36.45	26.22	184.4	2.24	.97	1521.8	56.3
90.0	18.69	36.45	26.23	183.3	2.29	1.02	1521.7	16.1
93.0	18.69	36.45	26.23	183.5	2.35	1.08	1521.7	0.0


TEMPERATURE (DEG. C.) X
SALINITY (PPT) O
SIGMA-T Δ
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 6 / TRANSECT II
1271 726 2020 CST

HYDROGRAPHIC CAST DATA STATION 7 / TRACT II
12/ 2/76 940 CST SAMPLE CODE VWF

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	21.29	36.25	25.39	259.8	0.00	0.00	1527.0	0.0
3.0	21.34	36.25	25.37	261.5	.08	.00	1527.2	0.0
6.0	21.34	36.25	25.37	261.5	.16	.00	1527.3	4.4
9.0	21.34	36.25	25.38	261.6	.24	.01	1527.3	4.4
12.0	21.34	36.25	25.38	261.7	.31	.02	1527.4	13.8
15.0	21.31	36.26	25.38	260.9	.39	.03	1527.4	13.8
18.0	21.31	36.26	25.38	261.0	.47	.04	1527.4	4.4
21.0	21.31	36.26	25.39	261.1	.55	.06	1527.5	4.4
24.0	21.31	36.26	25.39	261.2	.63	.08	1527.5	4.4
27.0	21.31	36.26	25.39	261.2	.71	.10	1527.6	4.4
30.0	21.32	36.26	25.39	261.3	.79	.12	1527.6	4.4
33.0	21.32	36.26	25.39	261.4	.86	.15	1527.7	4.4
36.0	21.32	36.26	25.39	261.4	.94	.17	1527.7	0.0
39.0	21.33	36.26	25.39	261.8	1.02	.20	1527.8	0.0
42.0	21.35	36.26	25.38	262.4	1.10	.24	1527.9	0.0
45.0	21.35	36.26	25.38	262.4	1.18	.27	1527.9	4.4
48.0	21.35	36.26	25.38	262.5	1.26	.31	1528.0	4.4
51.0	21.35	36.26	25.38	262.6	1.34	.35	1528.0	4.4
54.0	21.35	36.27	25.38	262.6	1.42	.39	1528.1	4.4
57.0	21.35	36.27	25.38	262.7	1.50	.44	1528.1	4.4
60.0	21.35	36.27	25.38	262.8	1.57	.48	1528.2	8.7
63.0	21.34	36.27	25.39	262.6	1.65	.53	1528.2	13.8
66.0	21.32	36.27	25.39	262.1	1.73	.59	1528.2	26.8
69.0	21.30	36.30	25.42	259.5	1.81	.64	1528.3	70.6
72.0	20.80	36.40	25.63	239.3	1.89	.70	1527.1	119.1
75.0	19.30	36.50	26.11	194.1	1.95	.75	1523.2	106.7
78.0	19.00	36.50	26.19	186.8	2.01	.79	1522.4	48.5
81.0	18.80	36.48	26.22	183.4	2.06	.84	1521.9	27.6
84.0	18.77	36.47	26.23	183.5	2.12	.88	1521.8	45.3
87.0	18.33	36.45	26.32	174.1	2.17	.93	1520.6	54.1
90.0	18.16	36.46	26.37	170.1	2.23	.98	1520.2	43.4
93.0	18.06	36.49	26.42	165.6	2.28	1.02	1520.0	47.1
96.0	17.73	36.46	26.48	160.1	2.33	1.07	1519.0	39.1
99.0	17.64	36.45	26.49	158.7	2.37	1.12	1518.8	34.1
102.0	17.41	36.43	26.53	154.9	2.42	1.17	1518.1	35.1
105.0	17.21	36.39	26.55	153.2	2.47	1.22	1517.6	32.1
108.0	17.08	36.39	26.58	150.3	2.51	1.27	1517.2	35.7
111.0	16.86	36.36	26.61	147.5	2.56	1.32	1516.6	33.5
114.0	16.76	36.36	26.64	145.3	2.60	1.37	1516.3	24.2
117.0	16.68	36.34	26.64	144.9	2.65	1.42	1516.1	33.9
120.0	16.43	36.33	26.69	140.1	2.69	1.47	1515.4	32.0
123.0	16.31	36.29	26.69	140.4	2.73	1.53	1515.1	17.0
126.0	16.21	36.28	26.71	138.9	2.77	1.58	1514.8	27.5
129.0	16.09	36.28	26.73	137.0	2.81	1.63	1514.5	25.7
132.0	16.01	36.27	26.74	136.0	2.86	1.69	1514.3	24.3
135.0	15.87	36.25	26.76	134.5	2.90	1.74	1513.9	45.4
138.0	15.51	36.25	26.84	126.6	2.94	1.80	1512.8	36.2
141.0	15.46	36.21	26.82	128.5	2.97	1.85	1512.6	0.0
144.0	15.45	36.19	26.81	129.6	3.01	1.91	1512.6	0.0
147.0	15.44	36.19	26.81	129.4	3.05	1.97	1512.6	12.7

150.0	15.42	36.19	26.82	129.0	3.09	2.03	1512.6	29.9
153.0	15.35	36.19	26.83	127.6	3.13	2.09	1512.4	20.0
156.0	15.27	36.17	26.84	127.4	3.17	2.15	1512.2	14.6
159.0	15.24	36.17	26.84	126.8	3.21	2.21	1512.2	18.0
162.0	15.17	36.16	26.85	126.4	3.24	2.27	1512.0	13.7
165.0	15.10	36.15	26.85	126.0	3.28	2.34	1511.8	2.0
168.0	15.07	36.14	26.85	126.2	3.32	2.40	1511.8	8.4
171.0	15.02	36.13	26.86	125.9	3.36	2.47	1511.6	12.7

APPENDIX B

PHYTOPLANKTON AND PRODUCTIVITY

List of Figures

List of Tables

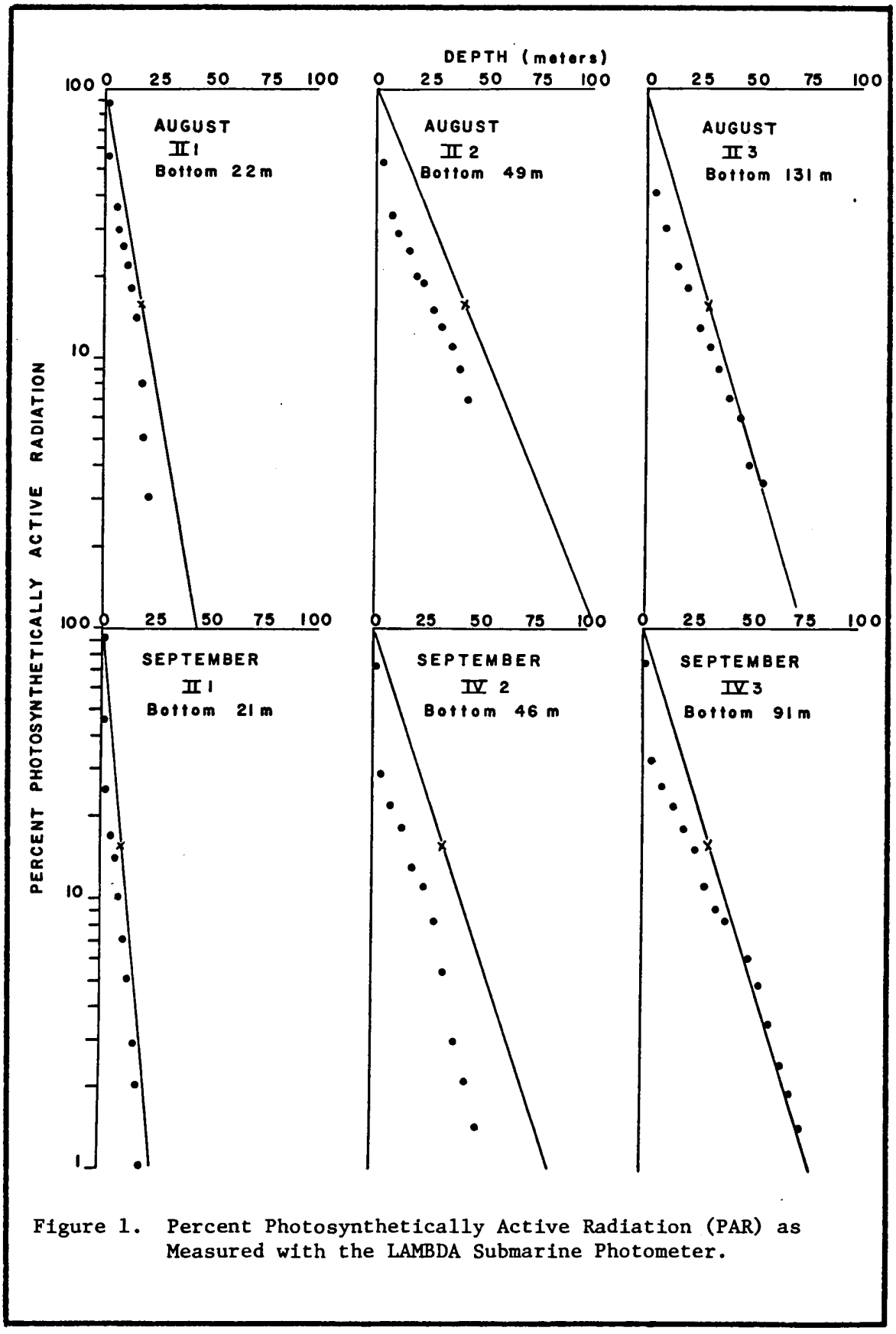


Figure 1. Percent Photosynthetically Active Radiation (PAR) as Measured with the LAMBDA Submarine Photometer.

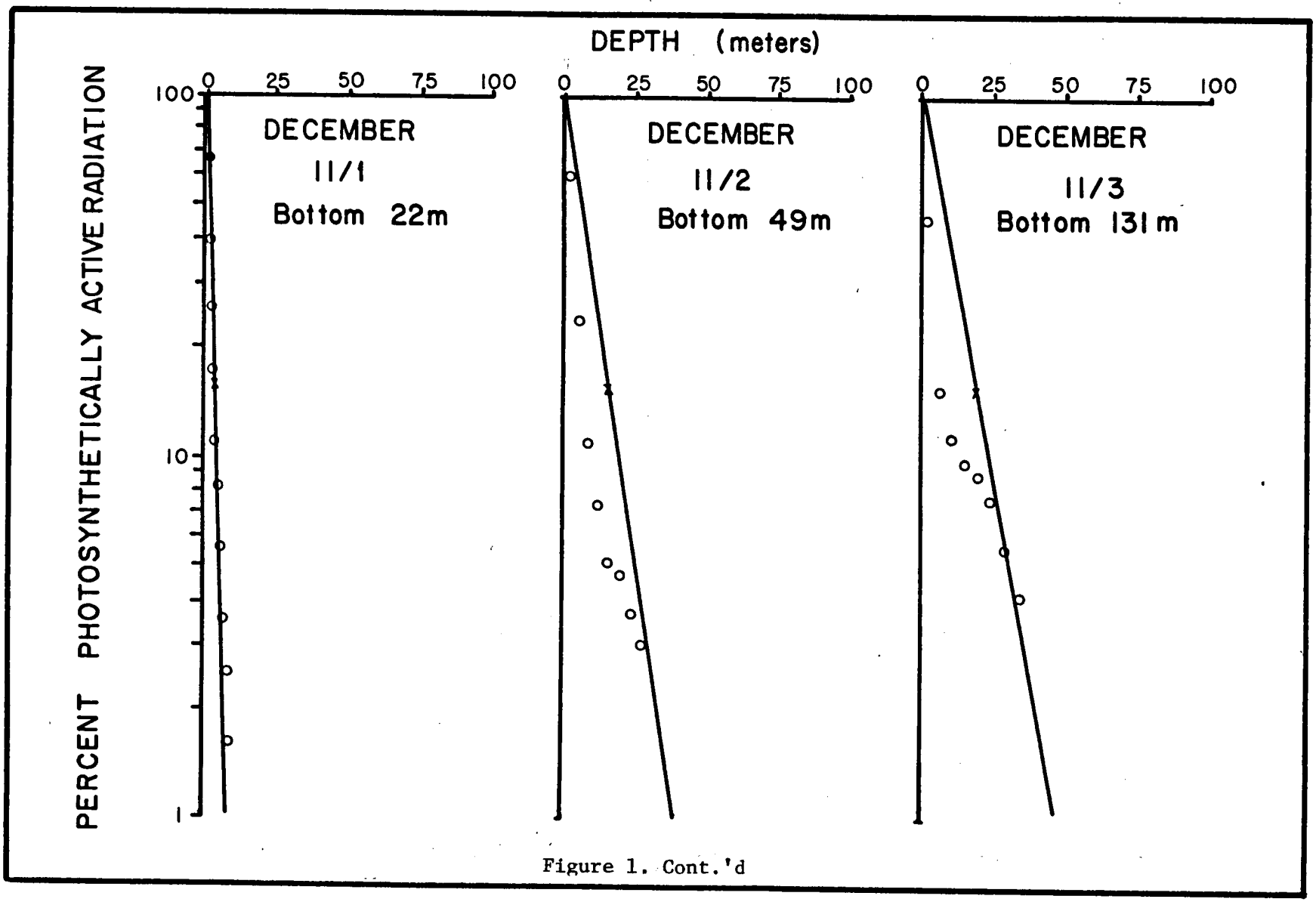
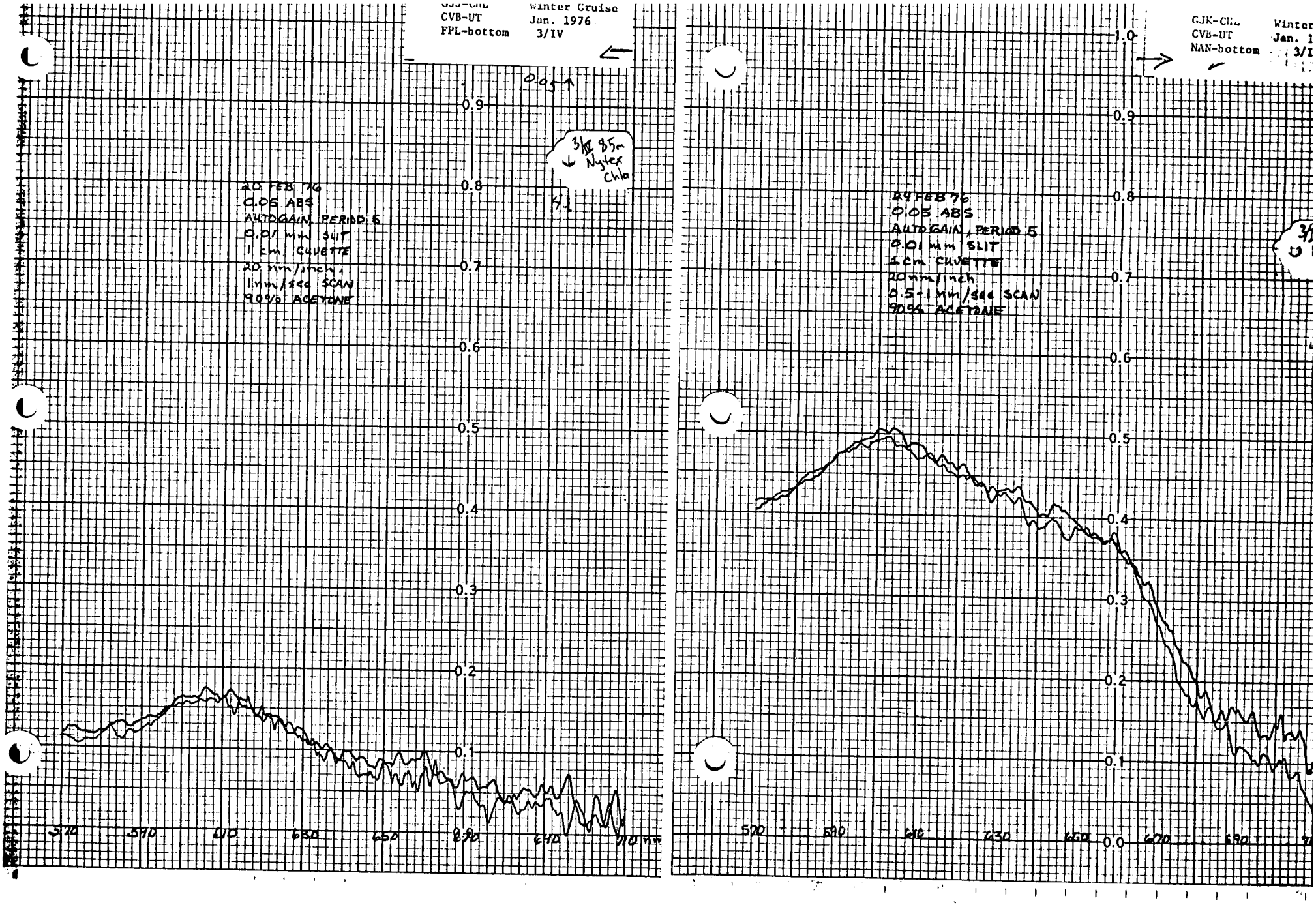


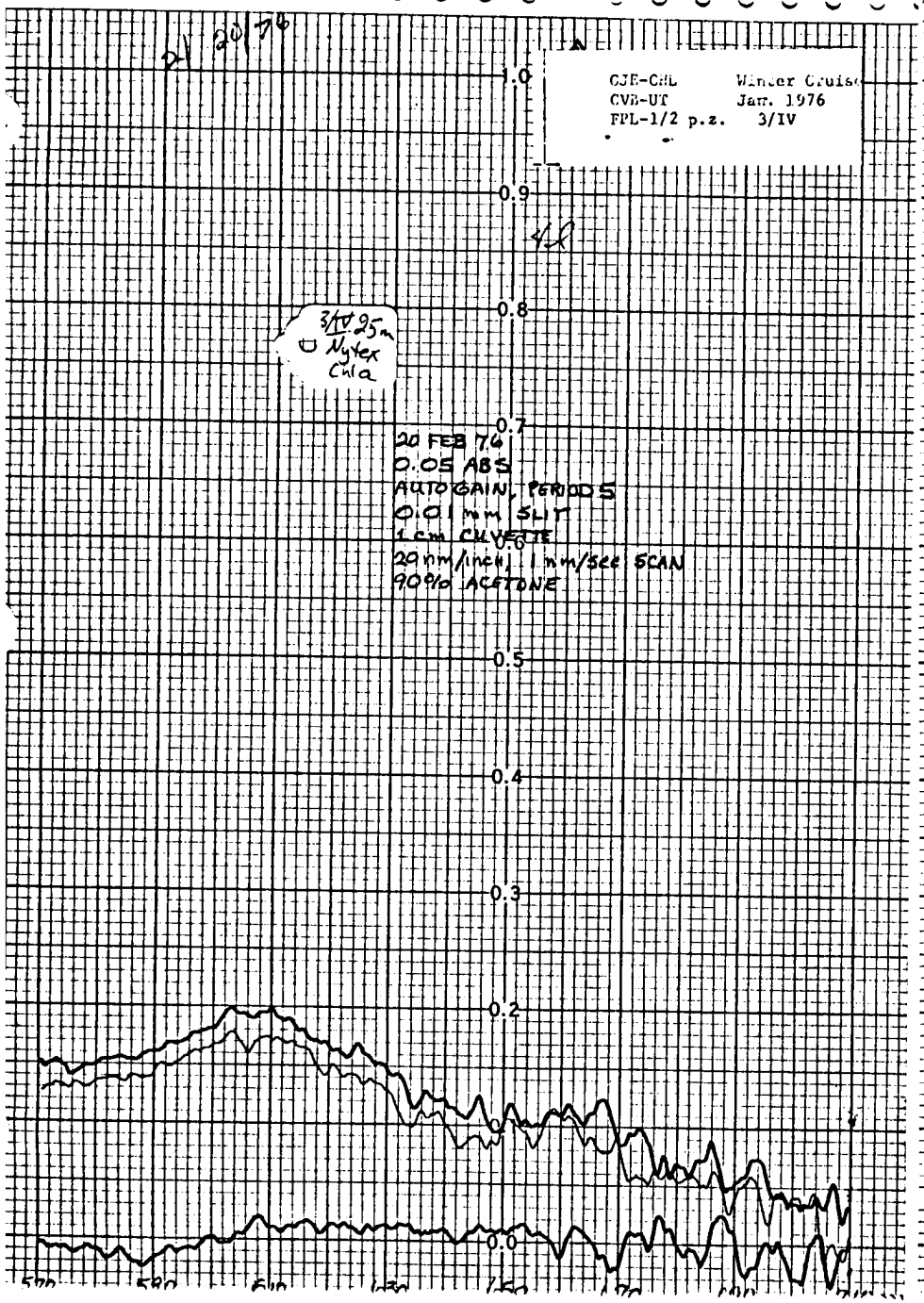
Figure 1. Cont.'d

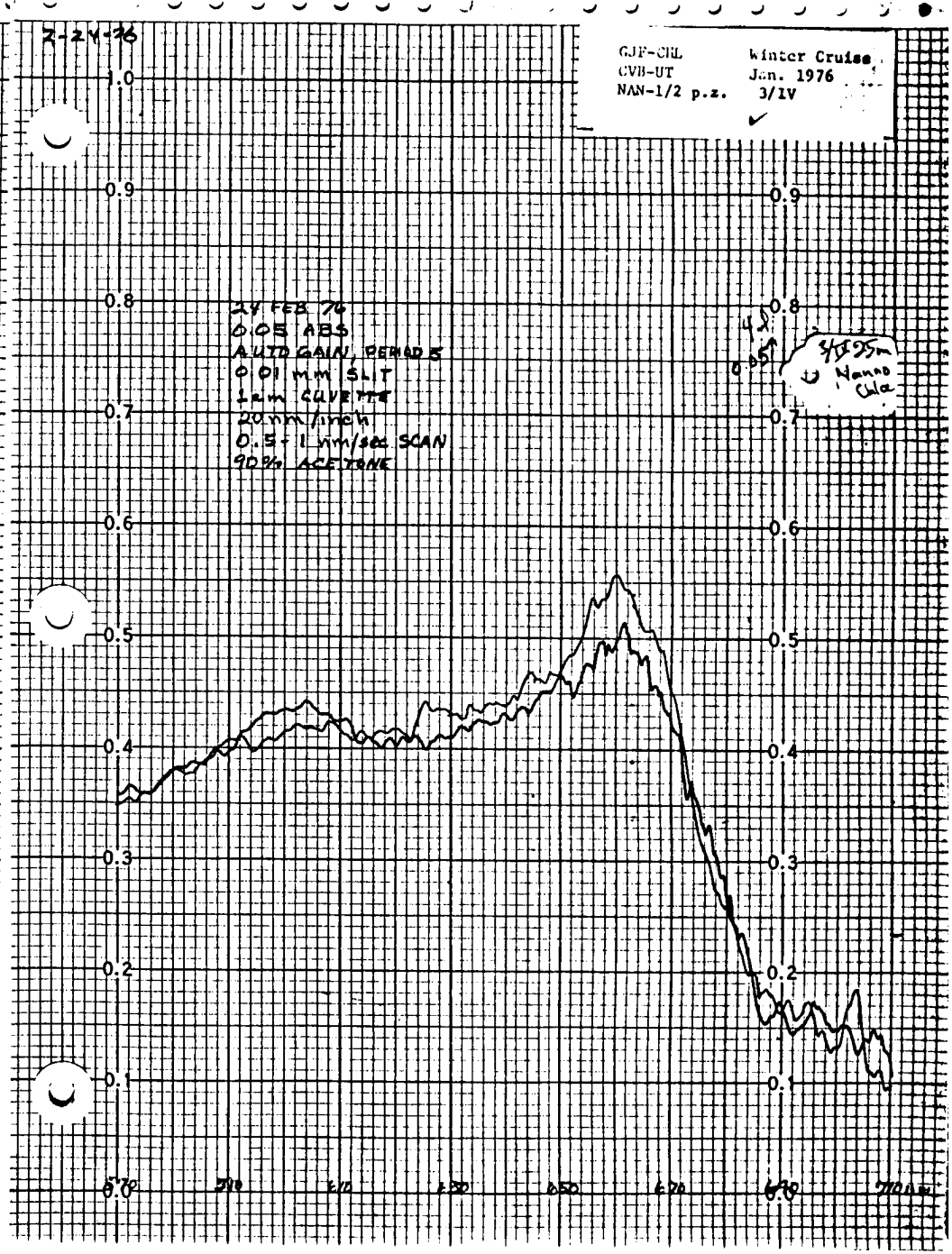
FIGURE 2

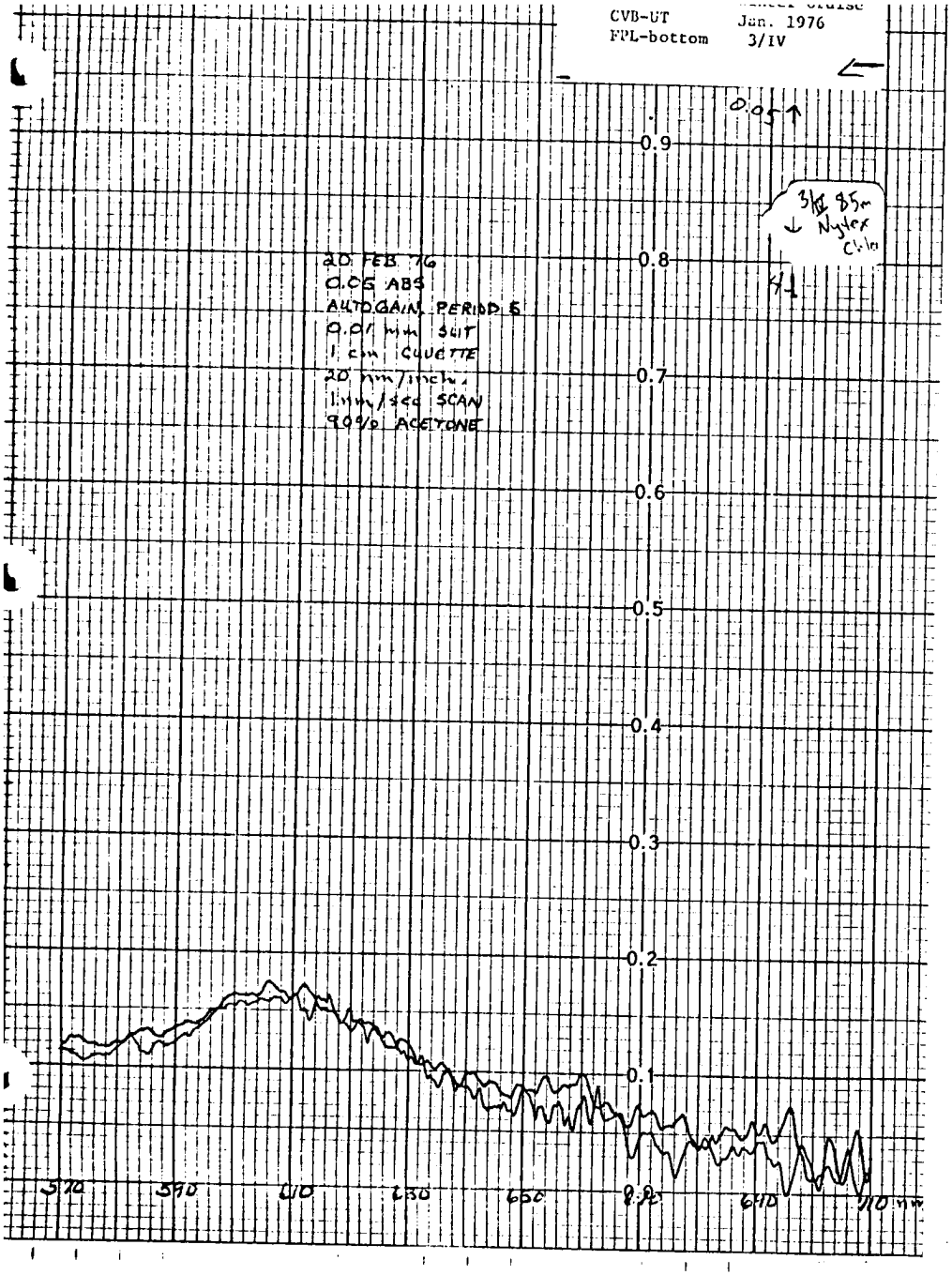
ABSORBANCE CURVES USED TO CALCULATE
ALL CHLOROPHYLL a VALUES

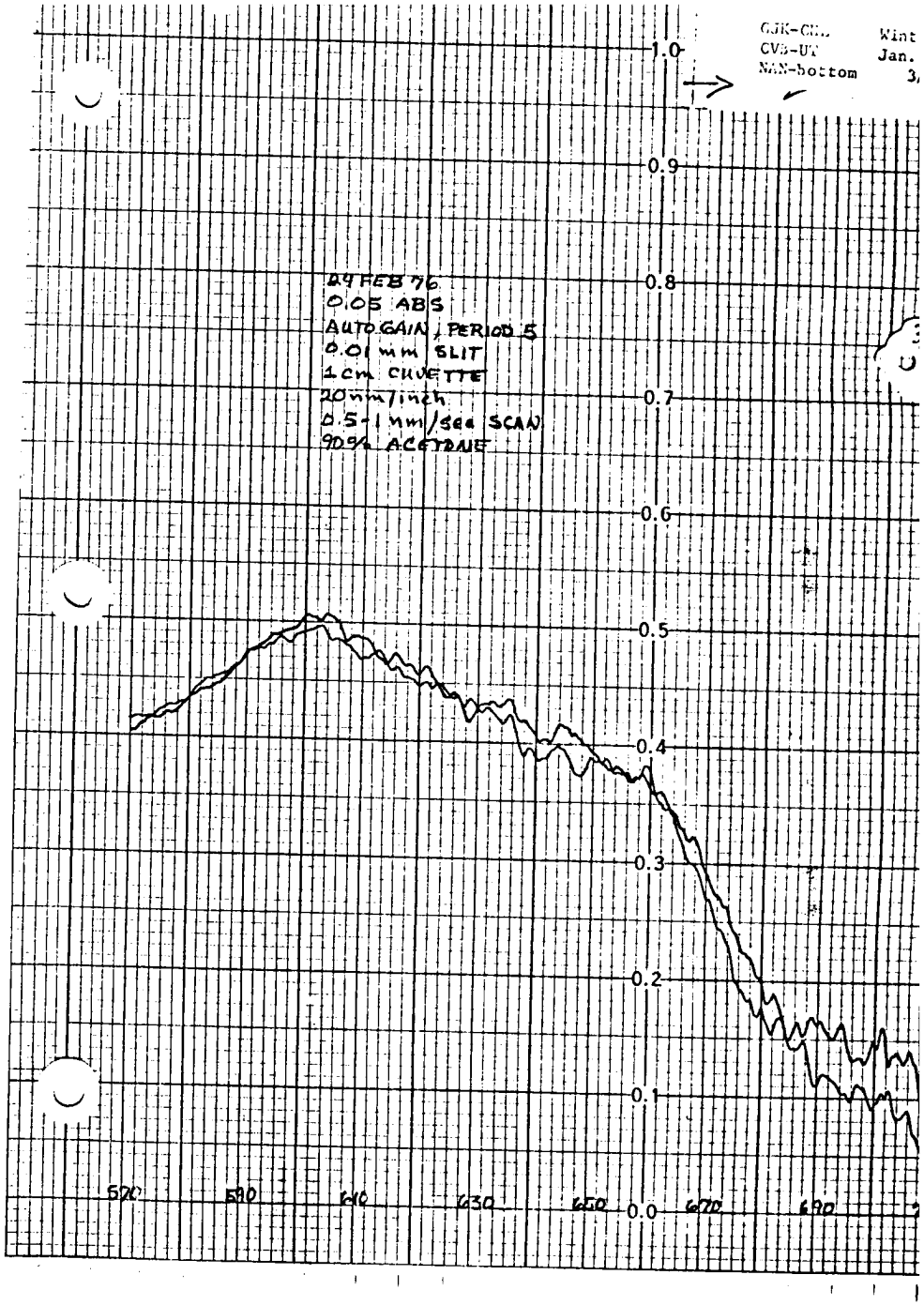
Pages (B-5 through B-214)


GJK-CHL
CVB-UT
FPL-bottom
Winter Cruise
Jan. 1976
3/IV
0.05
3/IV 85m
Nytex
Chla
20 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710 nm
GJK-CHL
CVB-UT
NAN-bottom
Winter
Jan. 1
3/I
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
24 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
0.5-1 nm/sec SCAN
90% ACETONE
590
610
630
650
670
690






CVB-UT
FPL-bottom
Jan. 1976
3/IV
0.05
3/IV 85m
Nylex
20 FEB 76
0.05 ABS
AUTO GAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710 nm


CVB-UT
Jan.
MAN-bottom
24 FEB 76
0.05 ABS
AUTO GAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
0.5-1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690

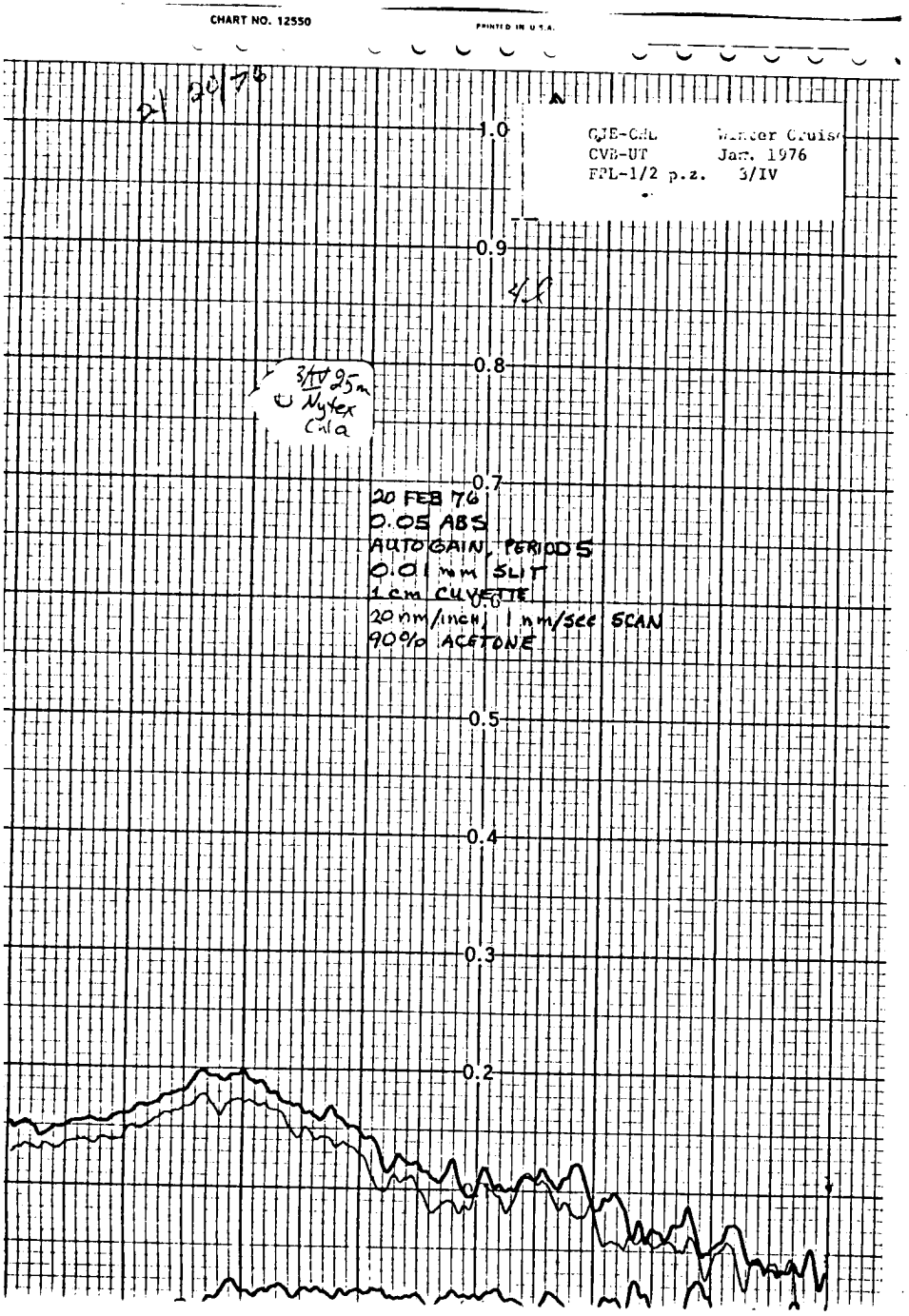
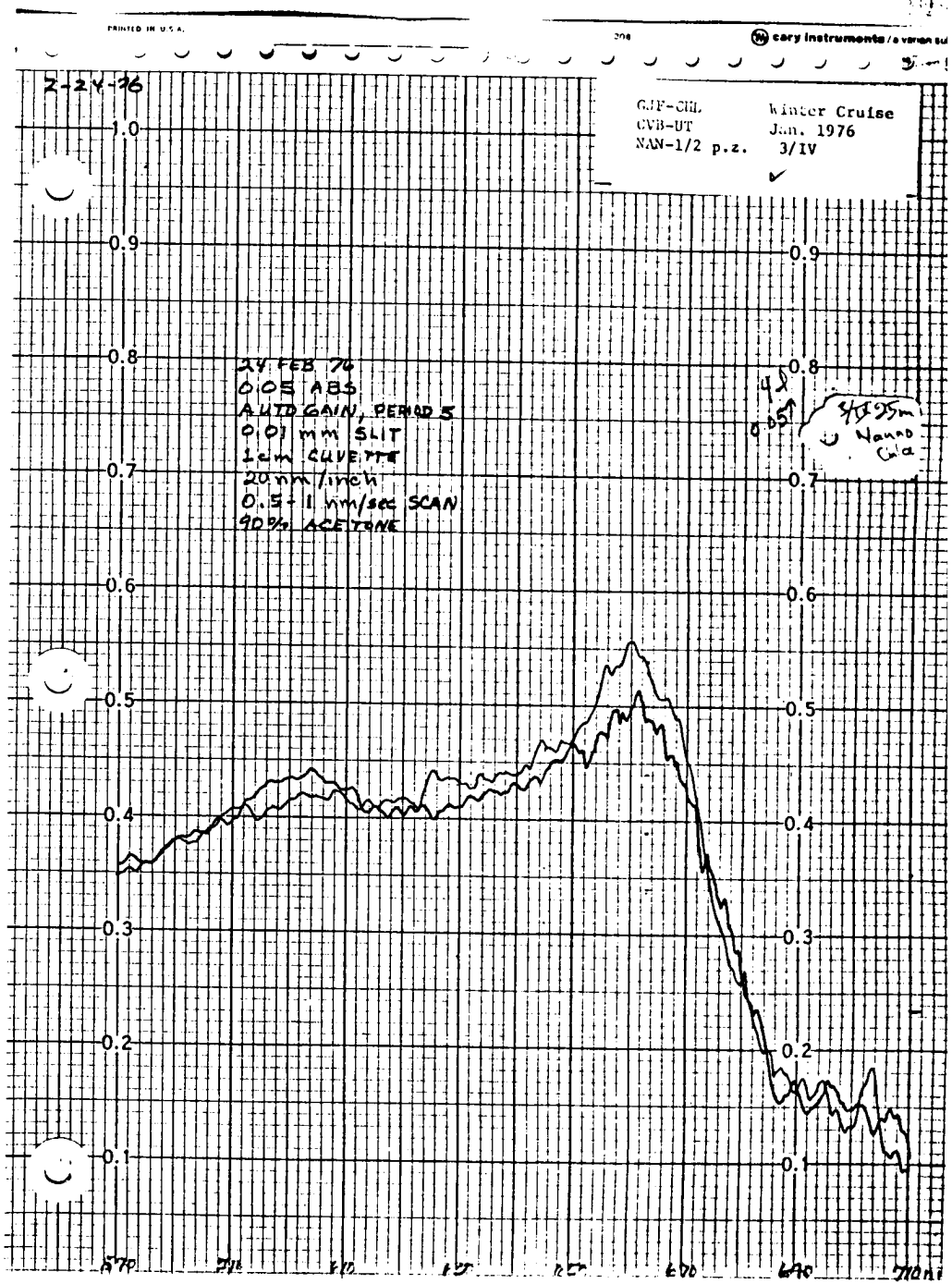
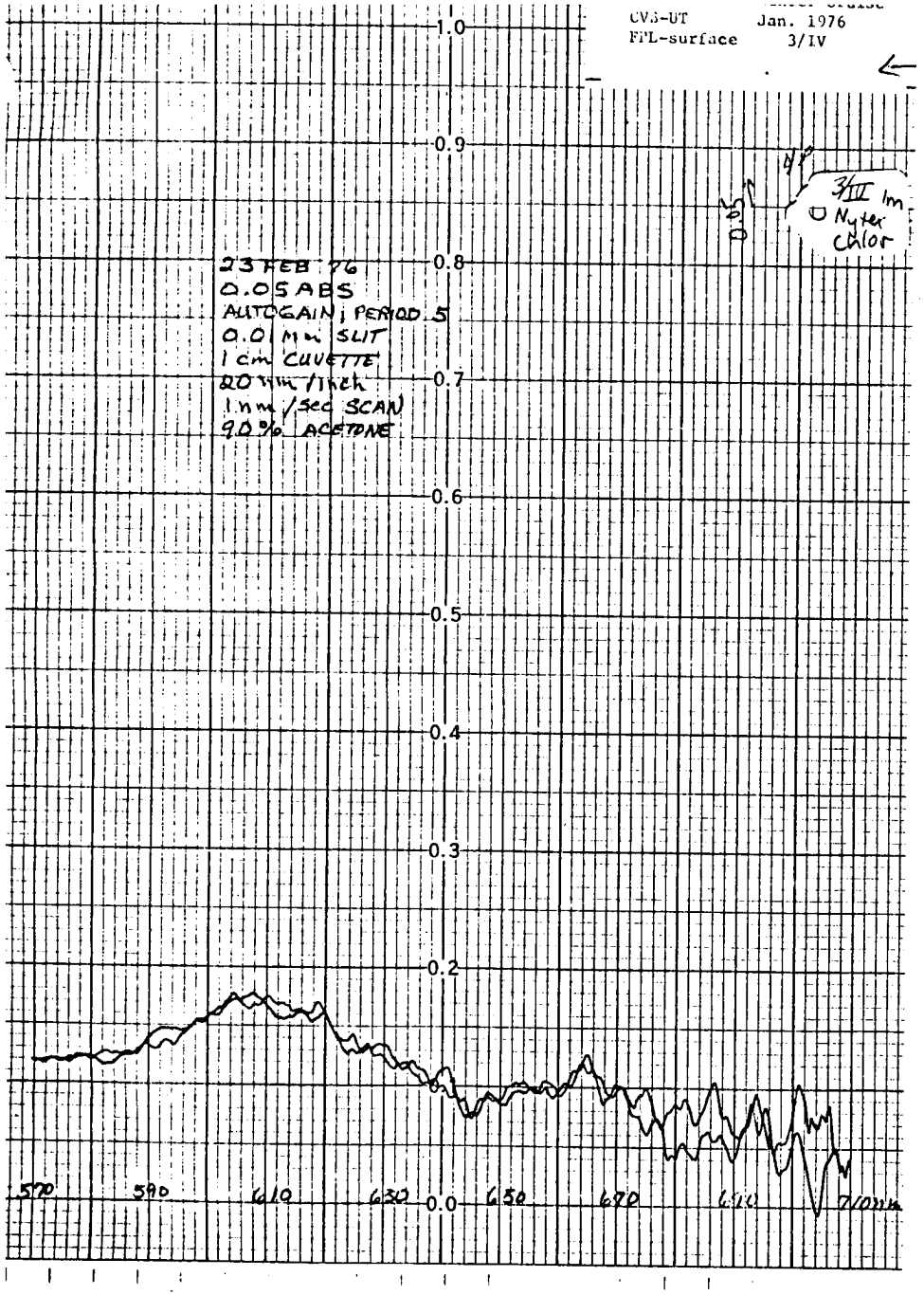


CHART NO. 12550
PRINTED IN U.S.A.
2-20-76
GJE-CHL Winter Cruise
CVB-UT Jan. 1976
FPL-1/2 p.z. 3/IV
3/IV 25m Nytex Cula
20 FEB 76
0.05 ABS
AUTO GAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch 1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2


PRINTED IN U.S.A.
cary instruments
2-24-76
GJF-CHL Winter Cruise
CVB-UT Jan. 1976
NAN-1/2 p.z. 3/IV
24 FEB 76
0.05 ABS
AUTO GAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
0.5-1 nm/sec SCAN
90% ACETONE
3/IV 25m Nanno Cula
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1


CVB-UT
FPL-surface
Jan. 1976
3/IV
23 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
3/III 1m
Nyter
Chlor
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710nm

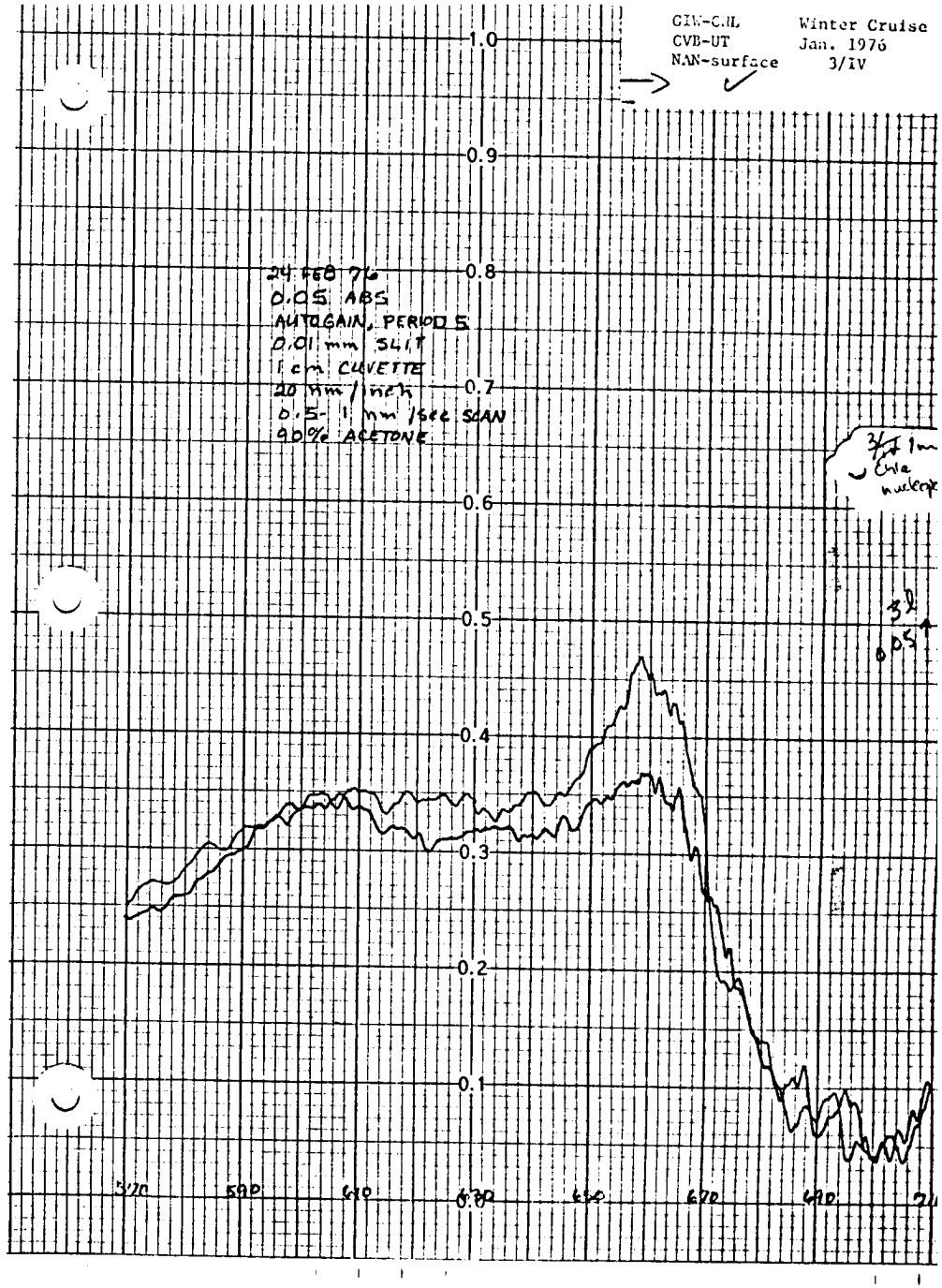
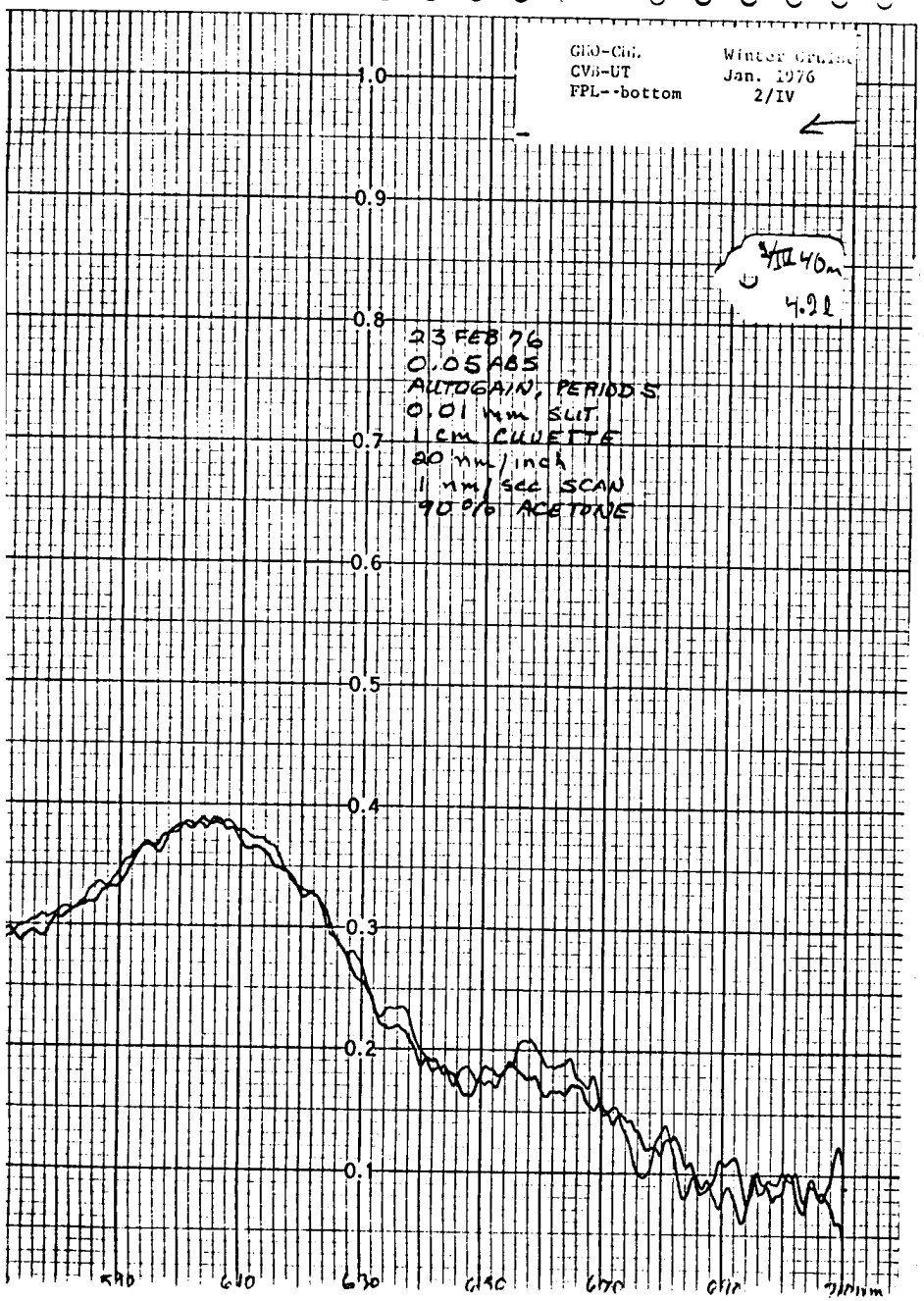

GIW-CML
CVB-UT
NAN-surface
Winter Cruise
Jan. 1976
3/IV
24 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
0.5-1 nm/sec SCAN
90% ACETONE
3/I 1m
Cyla
nuclear
3/I
0.05
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690

CHART NO. 12550

PRINTED IN U.S.A.

GIO-Chl.
CVB-UT
FPL--bottom

Winter Cruise
Jan. 1976
2/IV



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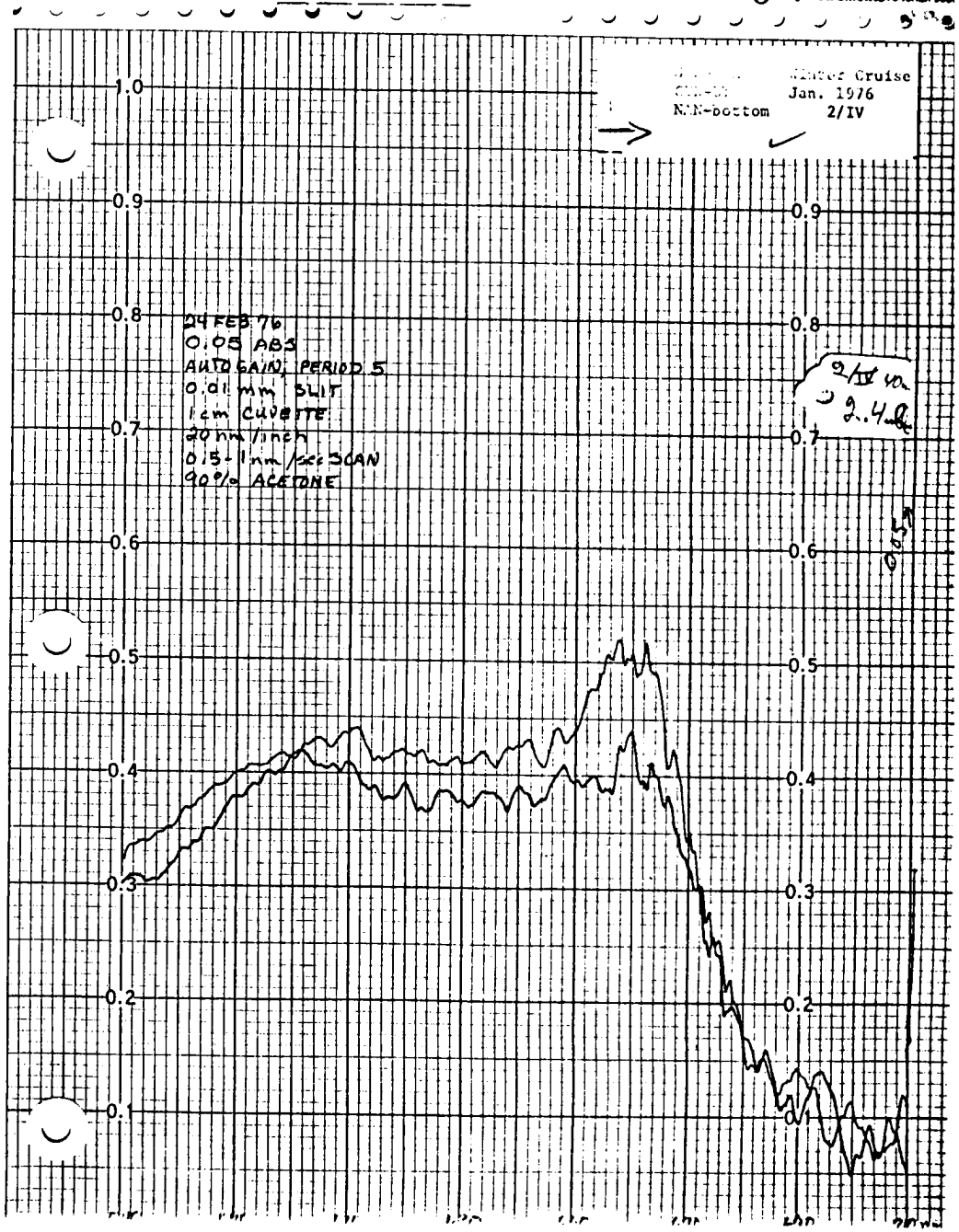
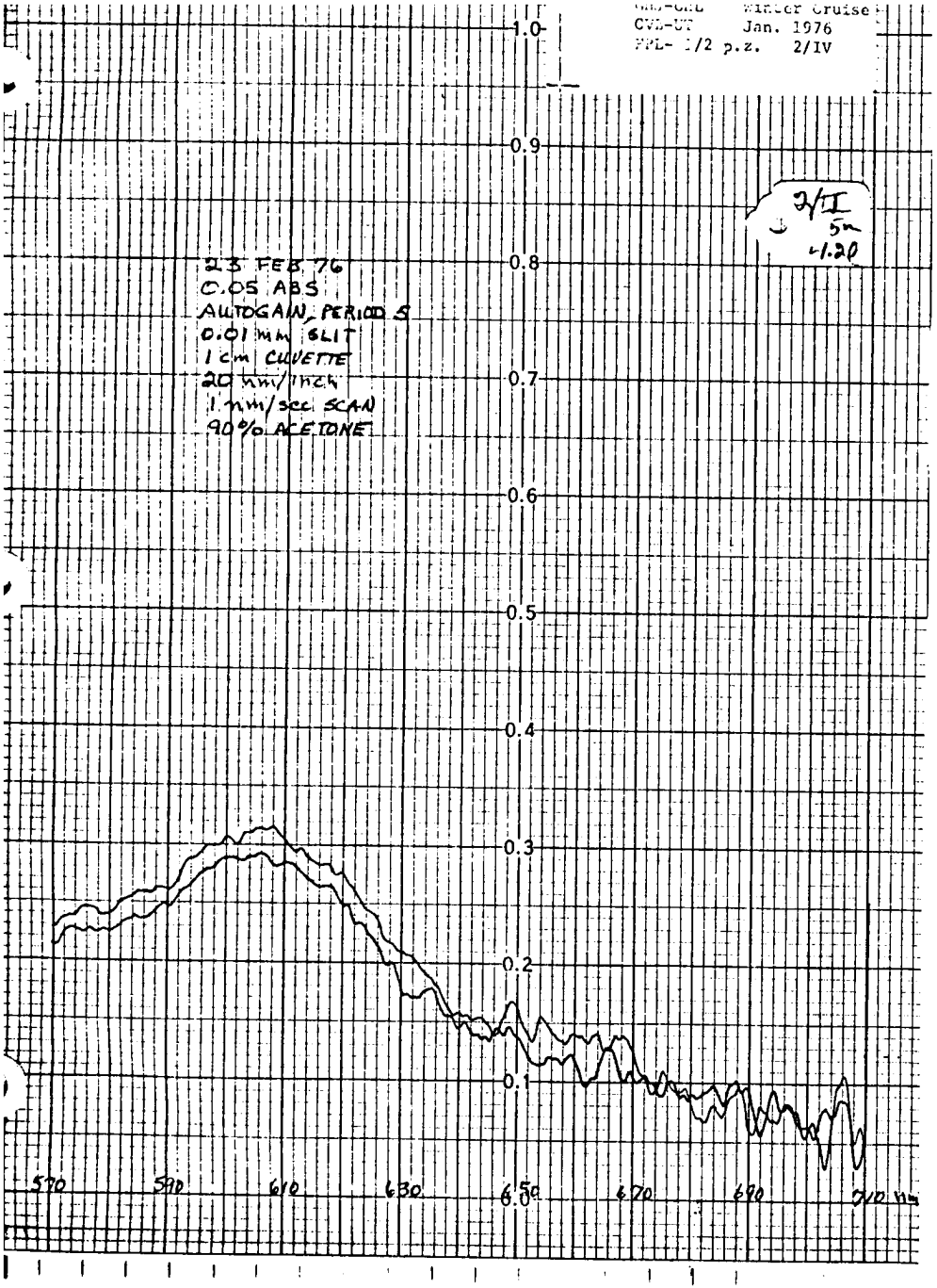
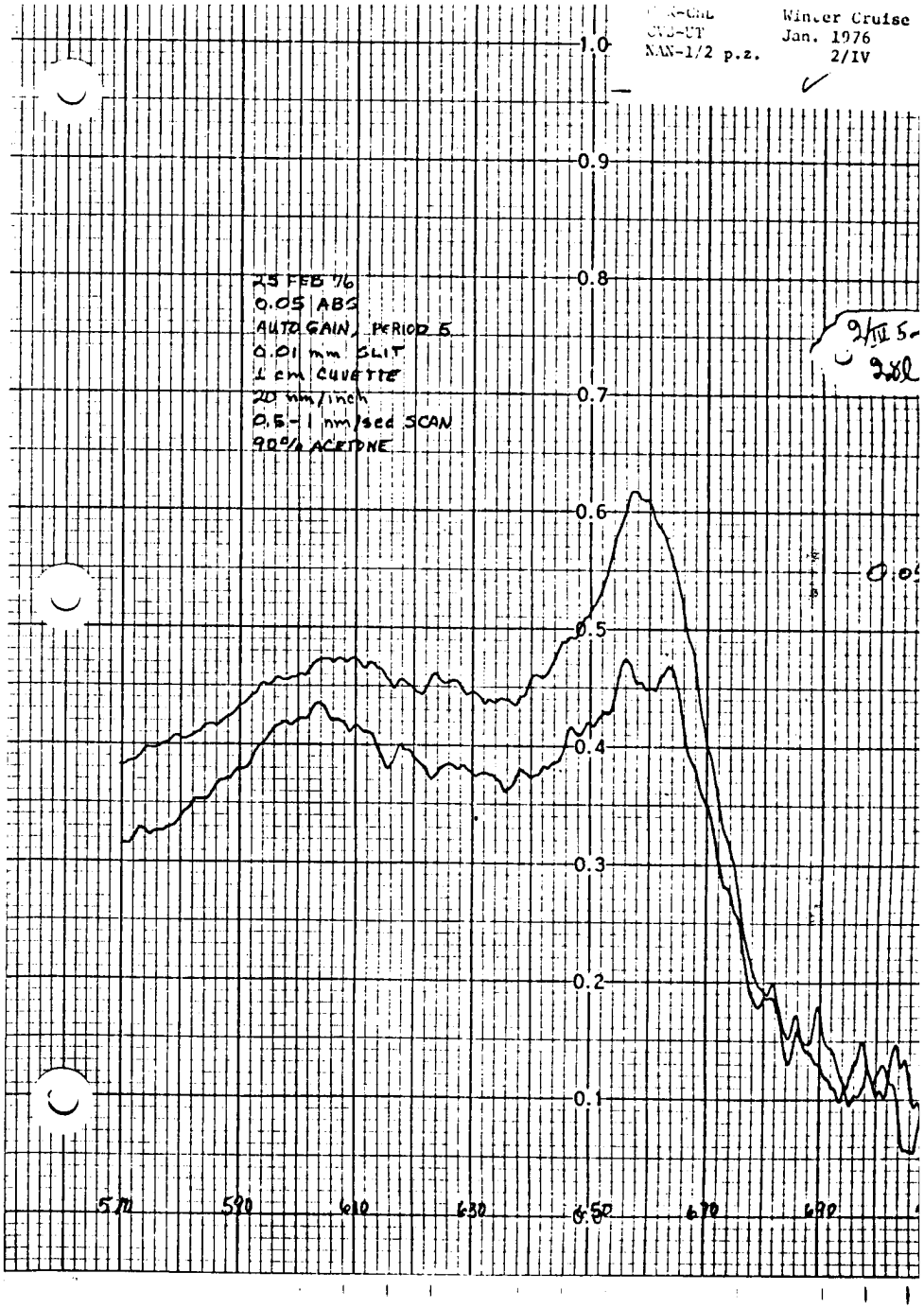
Winter Cruise
Jan. 1976
2/IV




Winter Cruise
Jan. 1976
2/IV
2/II
5m
-1.20
23 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710 nm


Winter Cruise
Jan. 1976
2/IV
25 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
0.5-1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690

cary instruments / a varian subsidiary

CHART NO. 12550

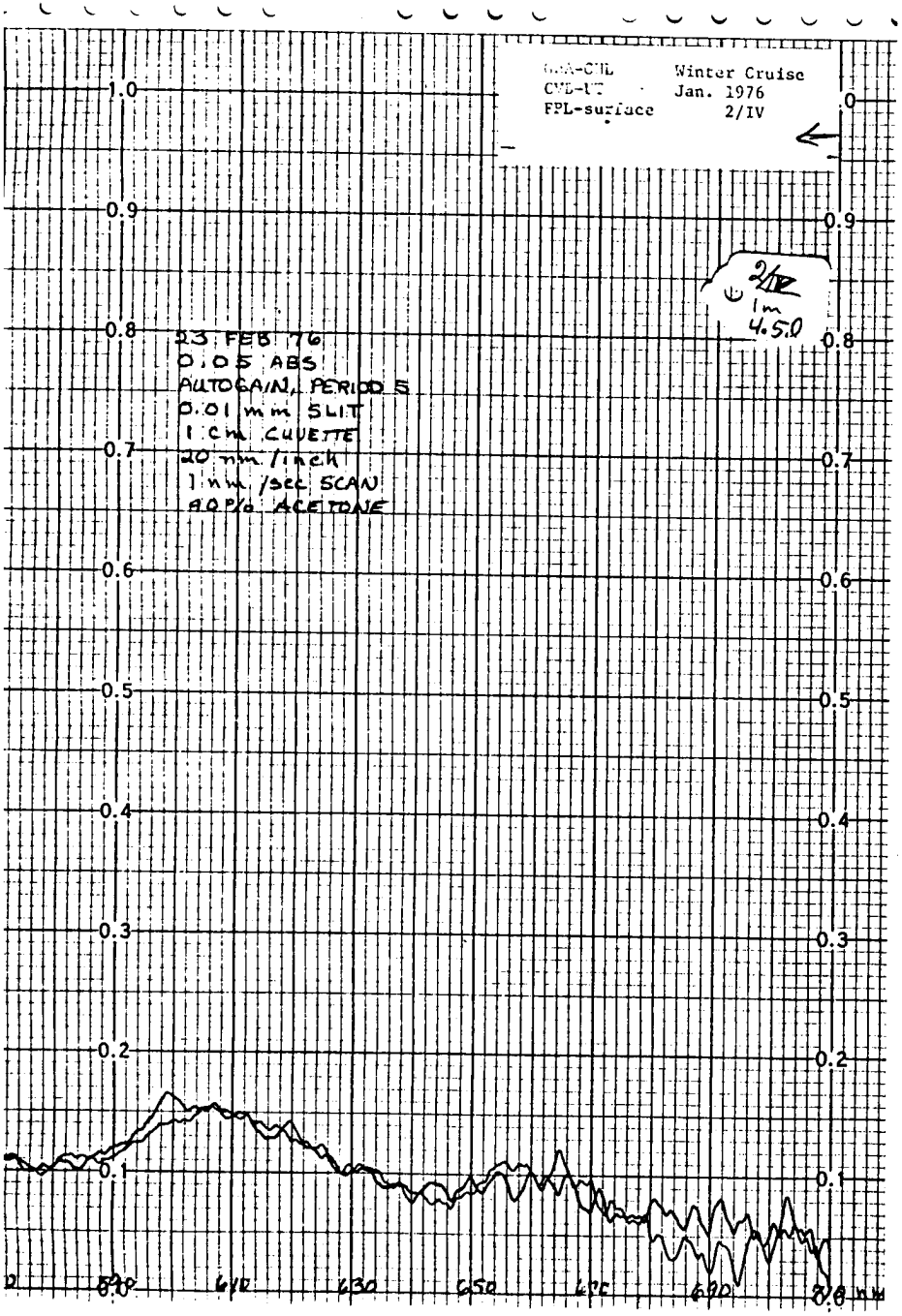
PRINTED IN U.S.A.

GHA-CHL
CVB-UT
FPL-surface

Winter Cruise
Jan. 1976
2/IV

23 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE

2/IV 1m 4.5.0



cary instruments / a varian subsidiary

CHART NO. 12550

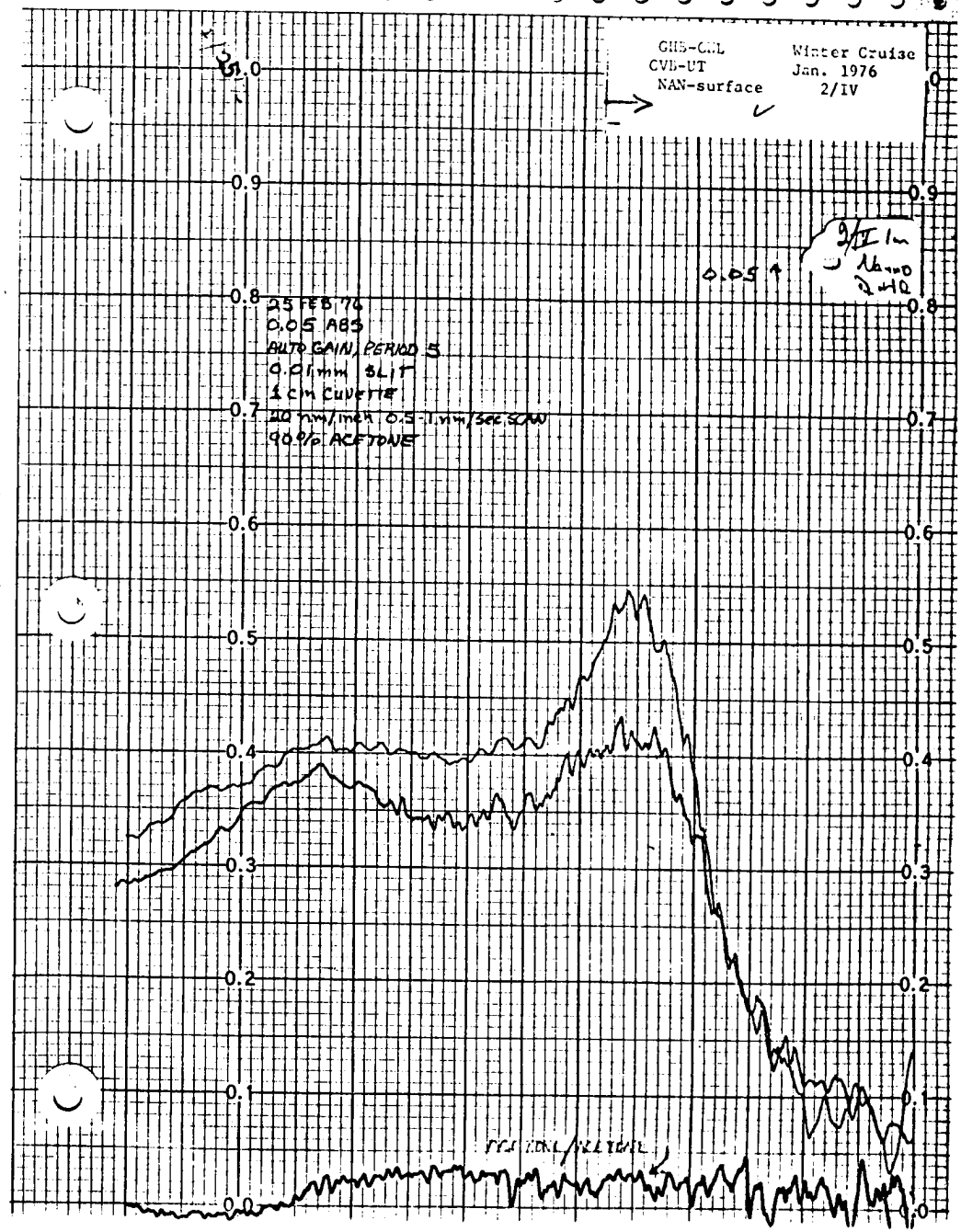
GHB-CHL
CVB-UT
NAN-surface

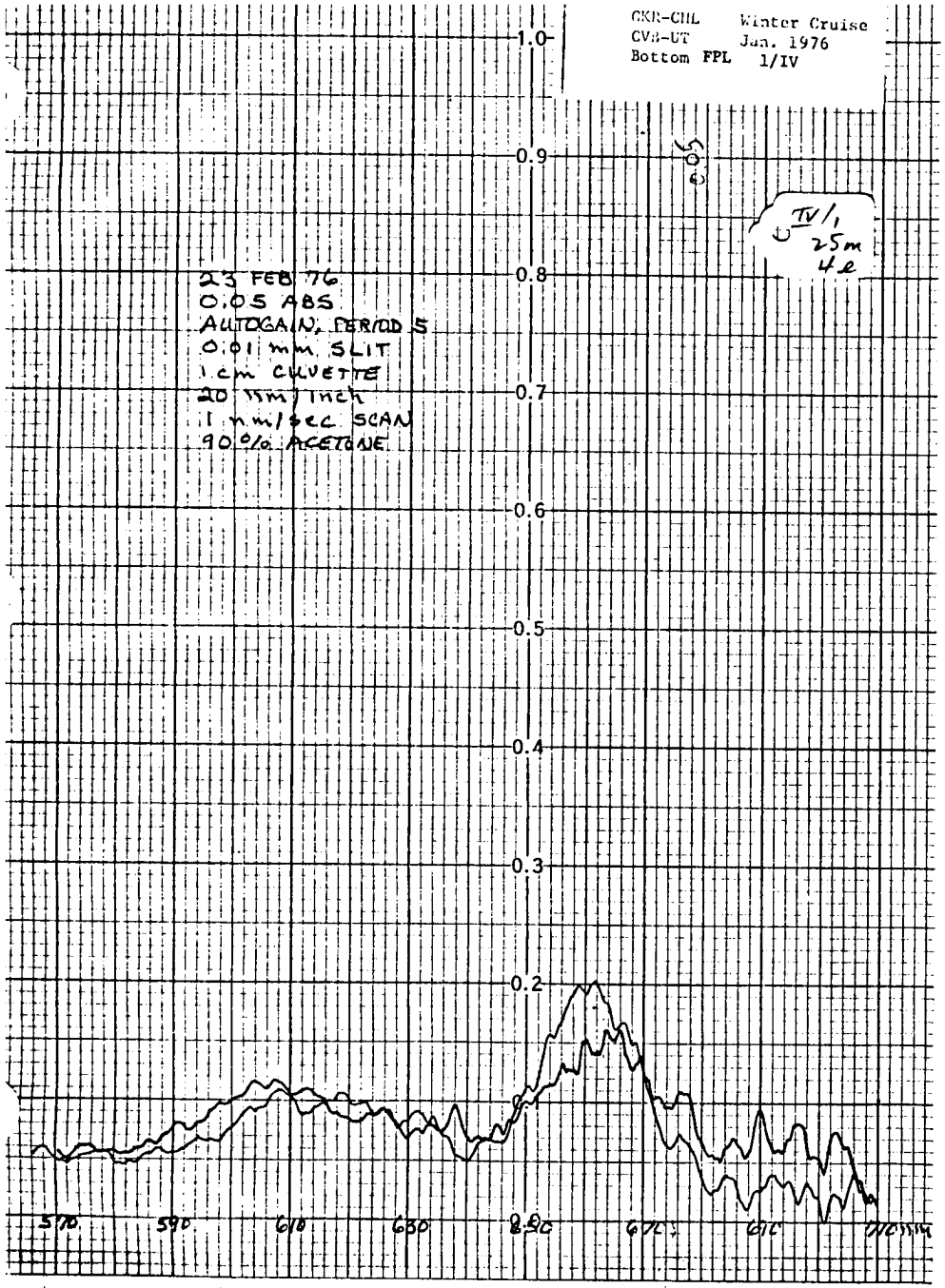
Winter Cruise
Jan. 1976
2/IV

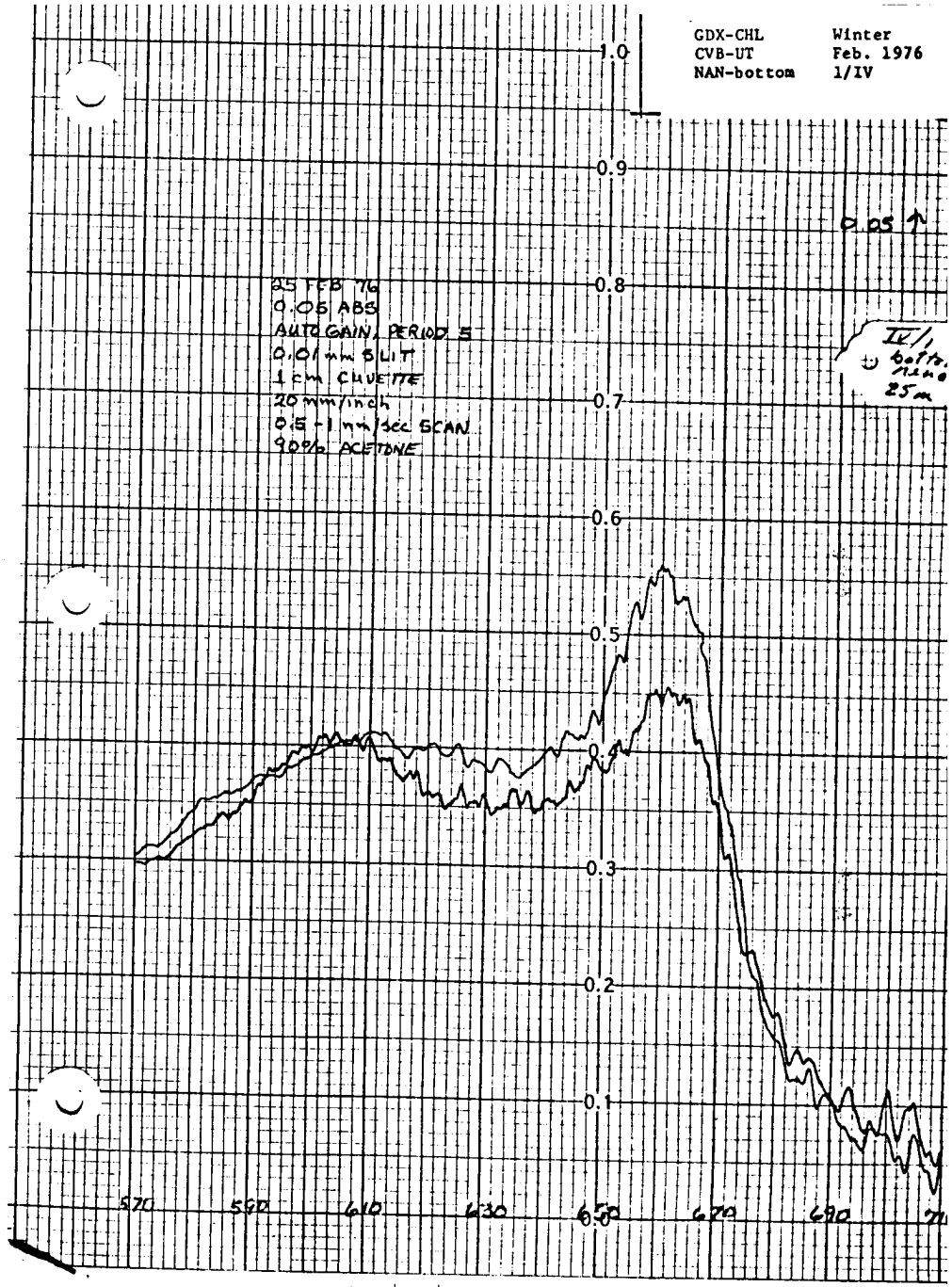
25 FEB 76
0.05 ABS
AUTO GAIN, PERIOD 5
0.01 mm SLIT
1 cm Cuvette
20 nm/inch 0.5-1 nm/sec SCAN
90% ACETONE

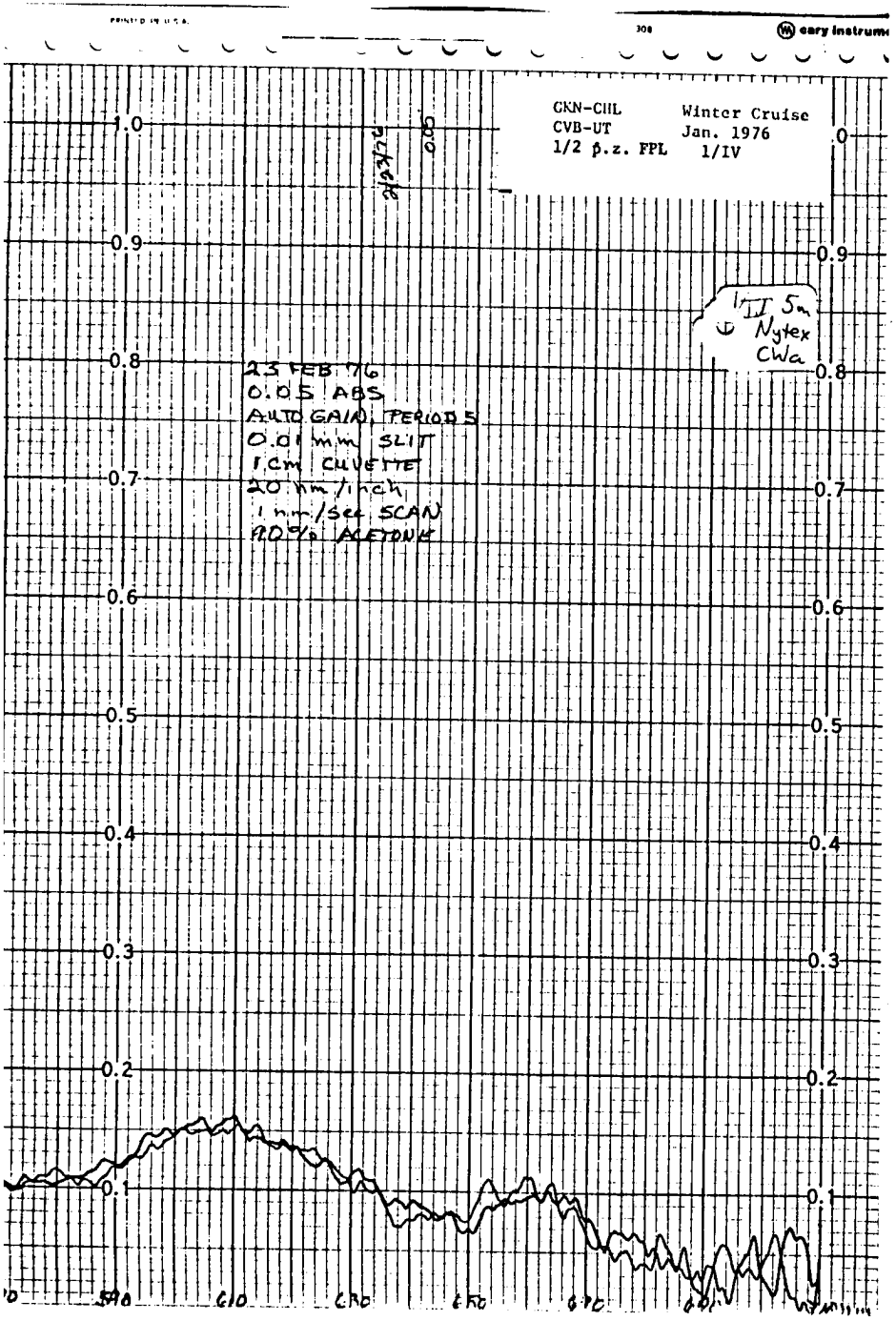
0.05

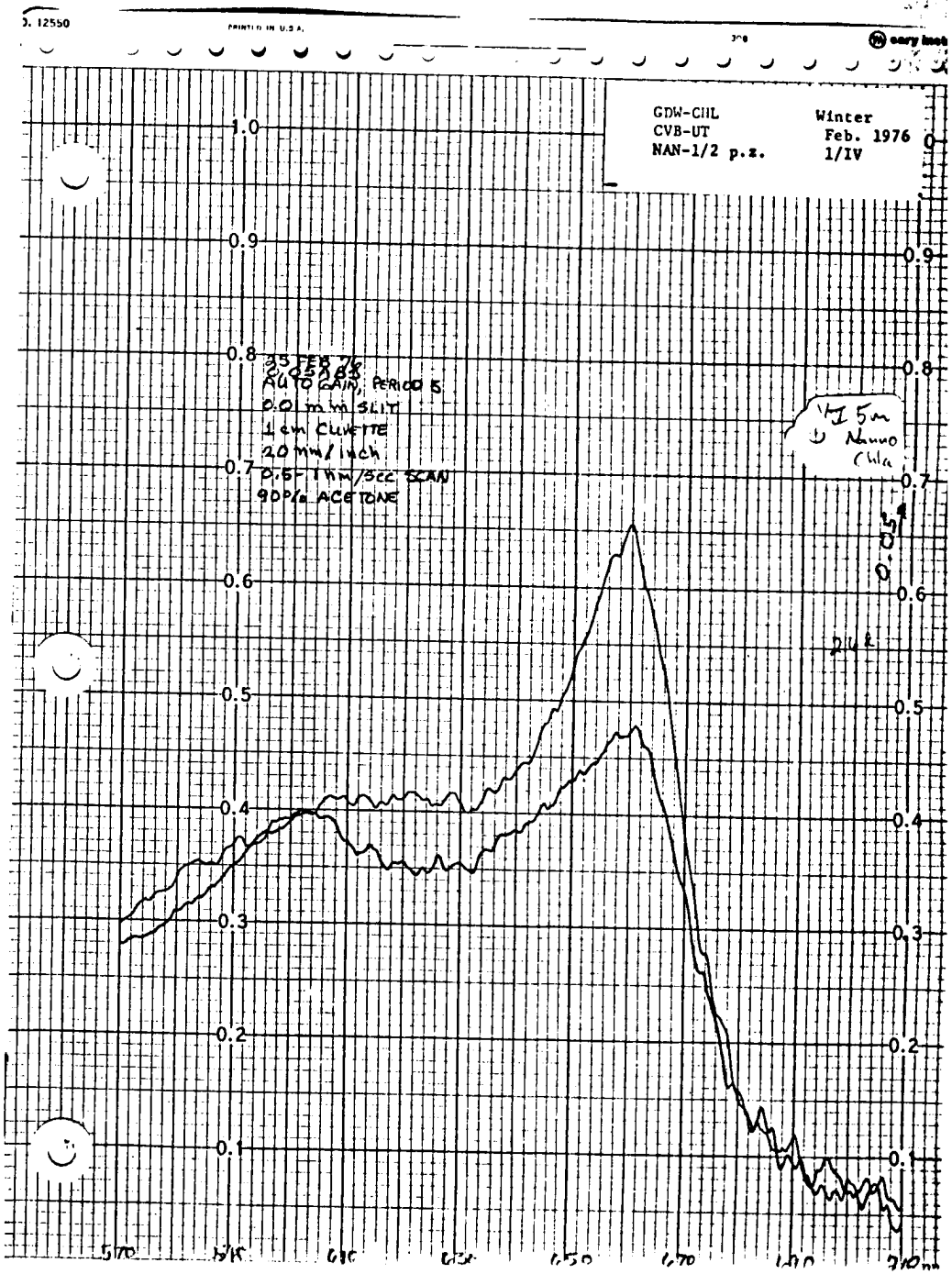
2/IV 1m

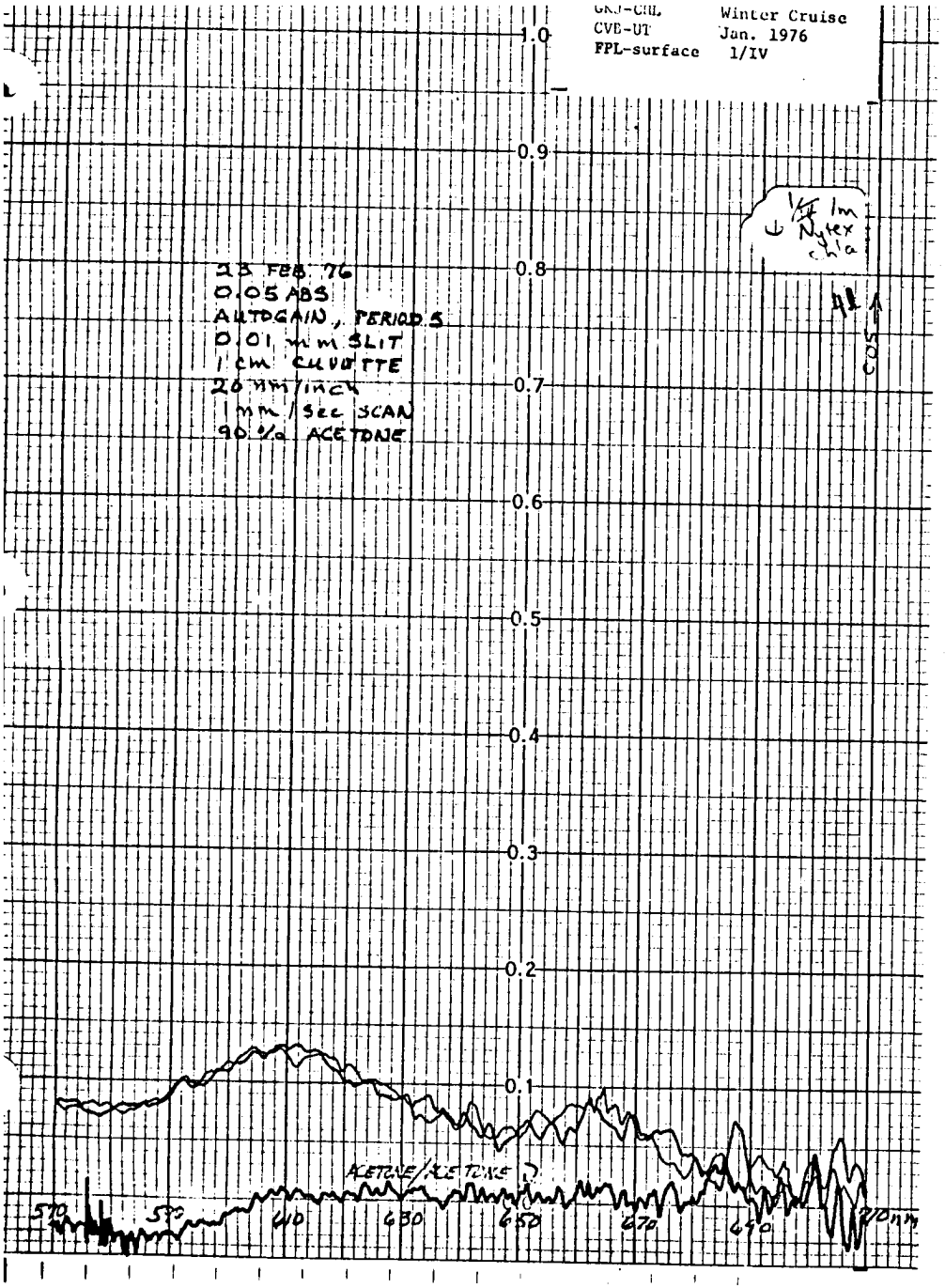


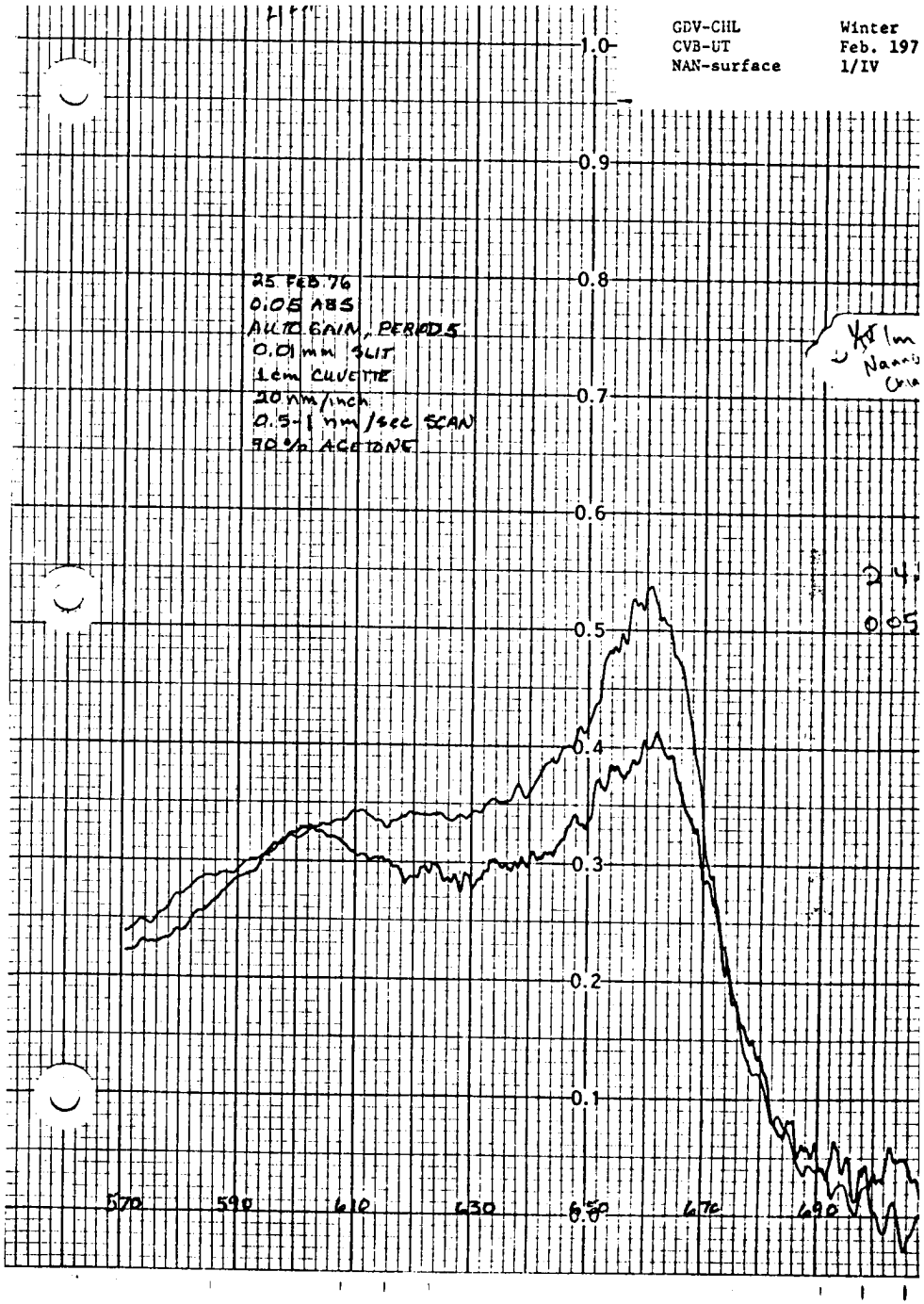

CKR-CHL Winter Cruise
CVB-UT Jan. 1976
Bottom FPL 1/IV
23 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 mm/inch
1 nm/sec SCAN
90% ACETONE
IV/1
25m
4e
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
570
590
610
630
650
670
690

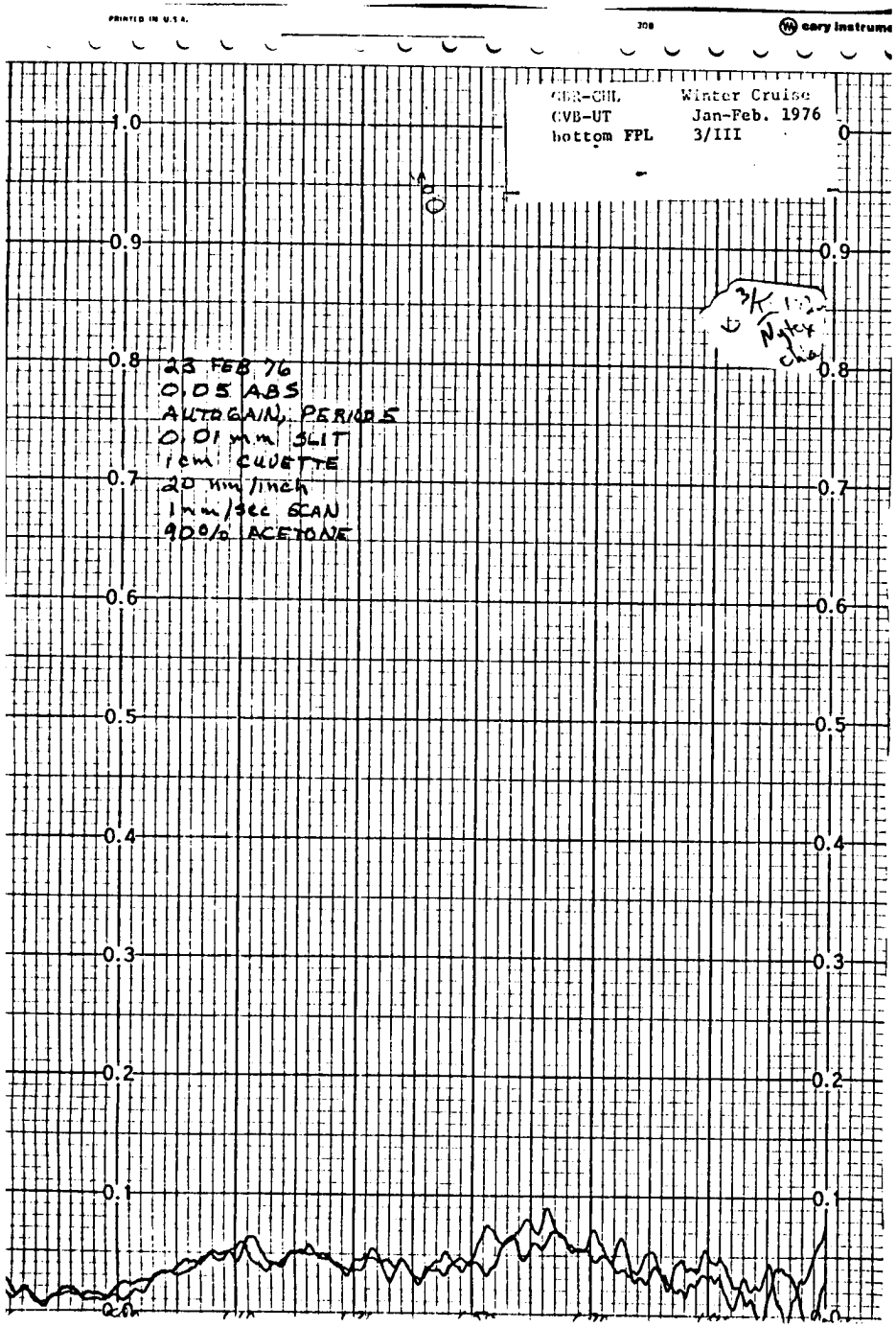

GDX-CHL Winter
CVB-UT Feb. 1976
NAN-bottom 1/IV
0.05
25 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 mm/inch
0.5 - 1 nm/sec SCAN
90% ACETONE
IV/1
bottle
25m
1.0
0.9
0.8
0.7
0.6
0.5
0.3
0.2
0.1
570
590
610
630
650
670
690

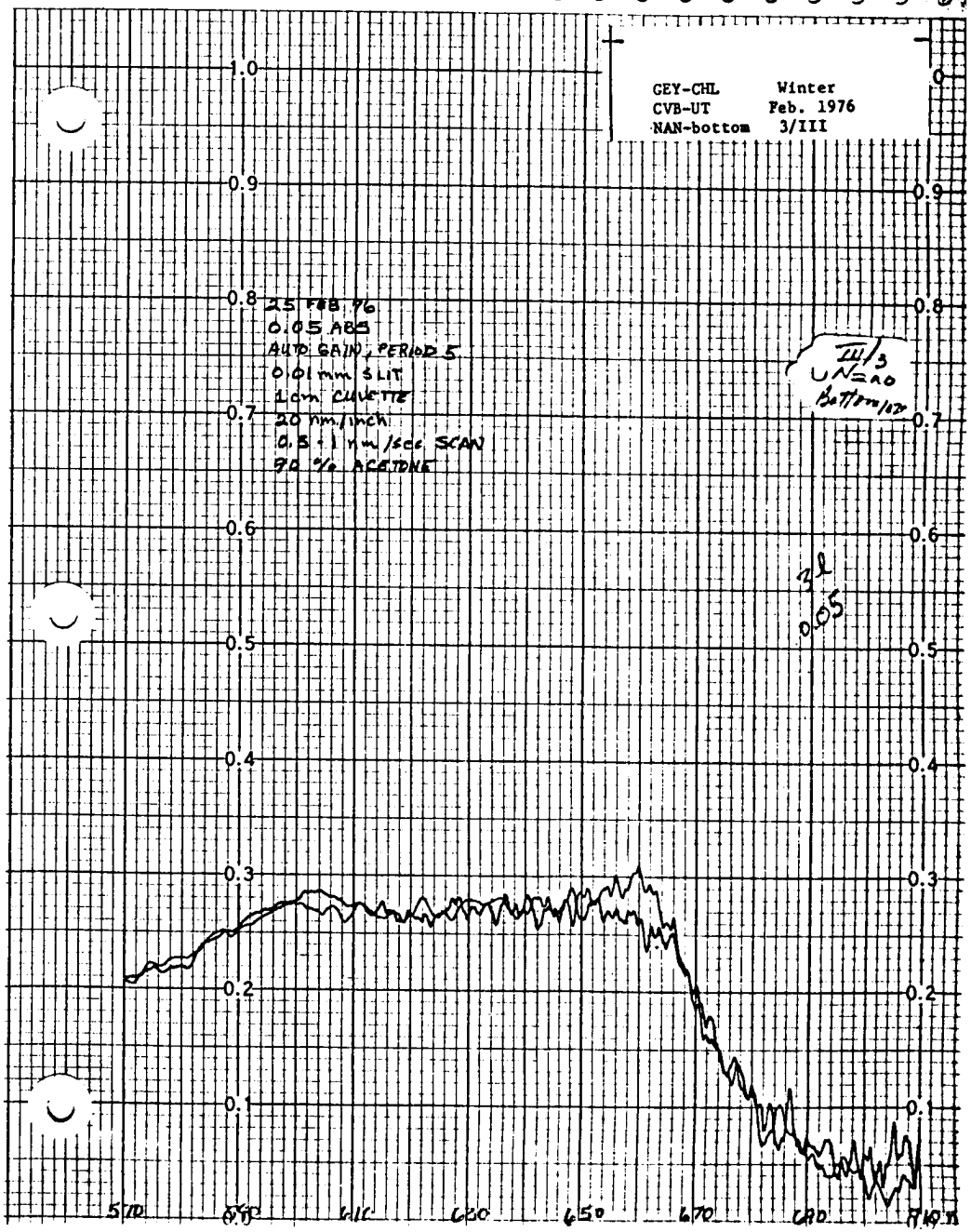

GKN-CHL
CVB-UT
1/2 p.z. FPL
Winter Cruise
Jan. 1976
1/IV
23 FEB 76
0.05 ABS
AUTO GAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1 II 5m
Nytex
CWa

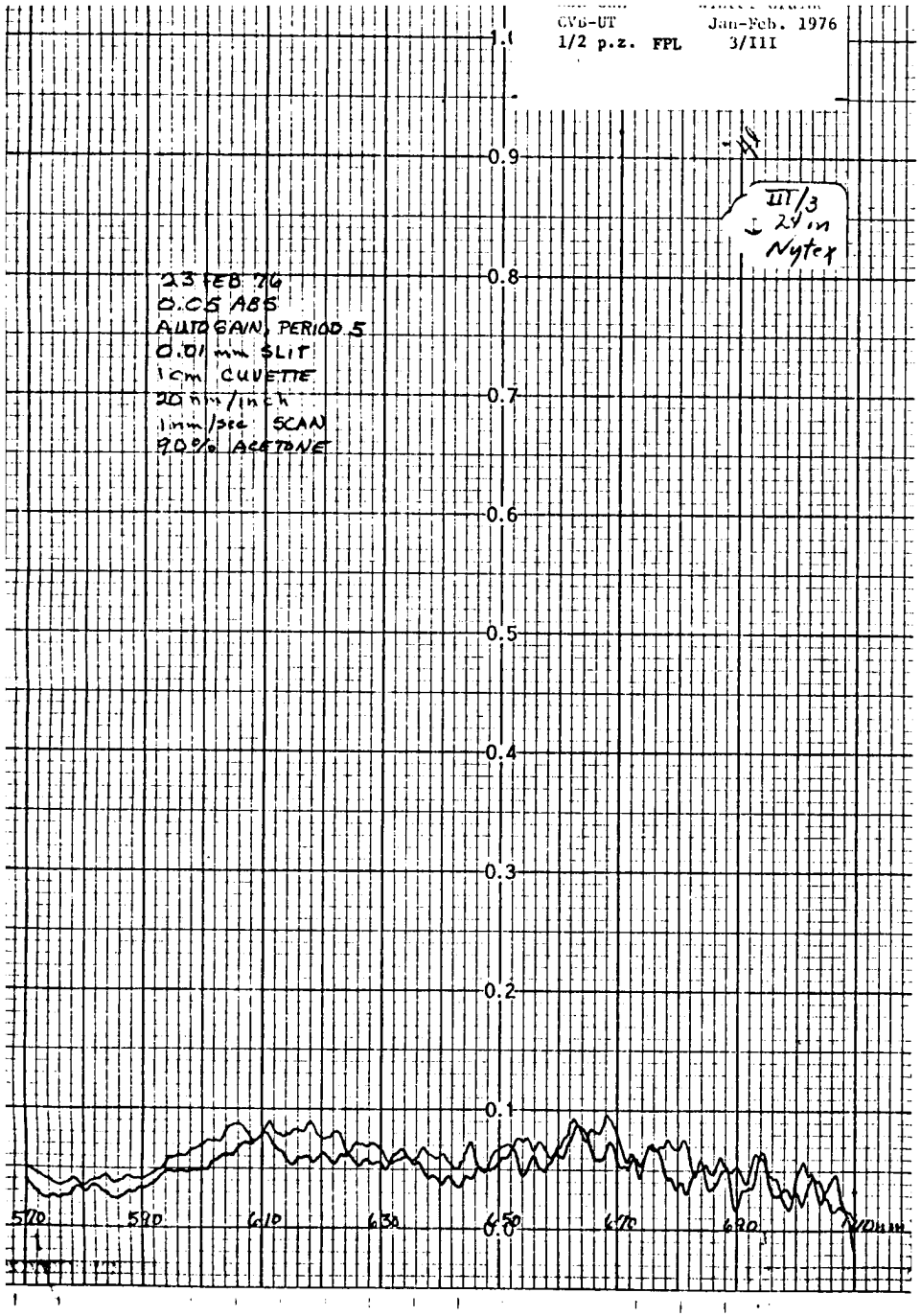

GDW-CHL
CVB-UT
NAN-1/2 p.z.
Winter
Feb. 1976
1/IV
25 FEB 76
AUTO GAIN, PERIOD 5
0.0 mm SLIT
1 cm CUVETTE
20 mm/inch
0.5 nm/sec SCAN
90% ACETONE
1 II 5m
Nanno
Chla

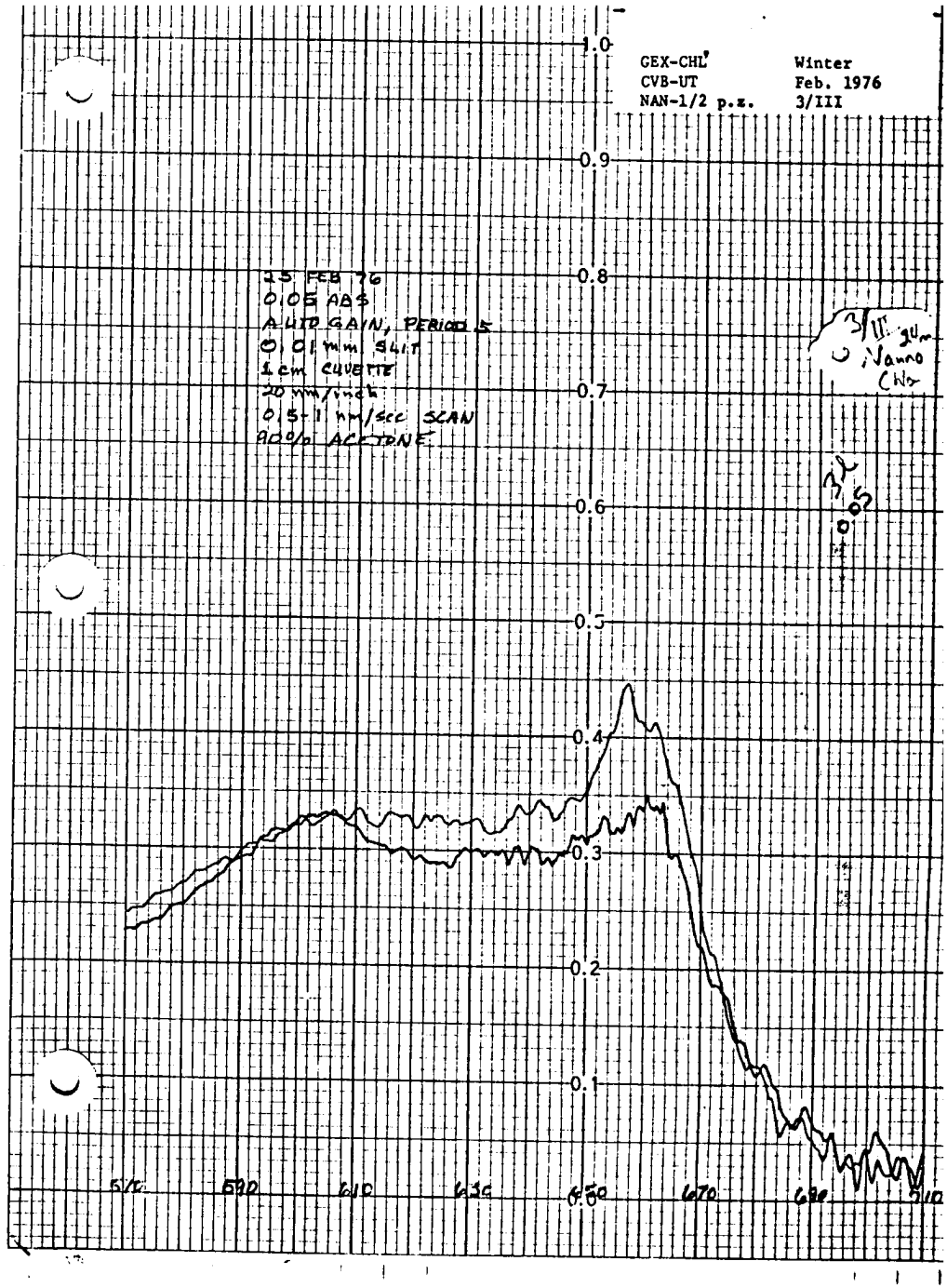

GKJ-CHL
CVB-UT
FPL-surface
Winter Cruise
Jan. 1976
1/IV
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
23 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
ACETONE/ACETONE
570
590
610
630
650
670
690
710 nm

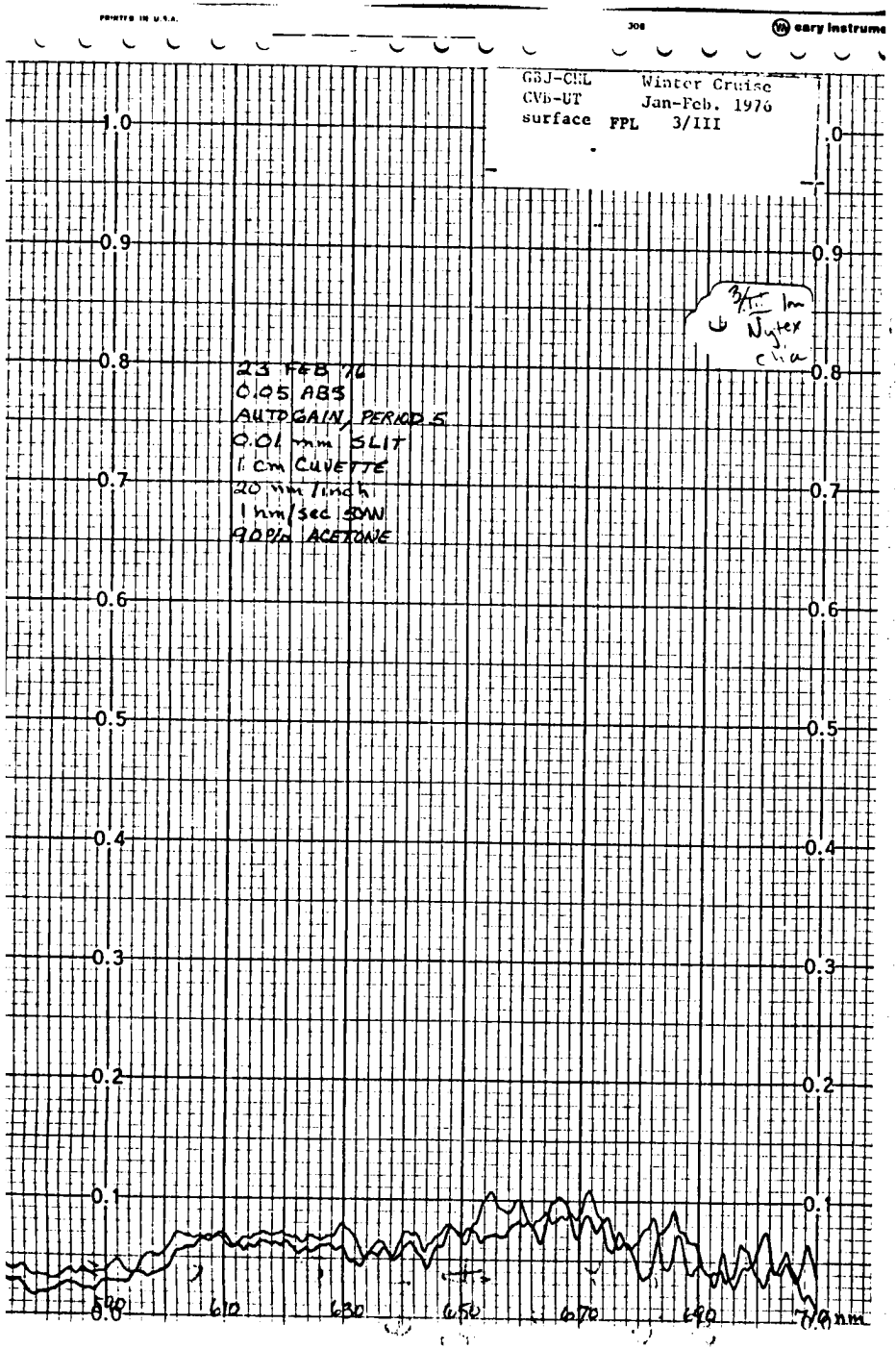

GDV-CHL
CVB-UT
NAN-surface
Winter
Feb. 197
1/IV
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
25 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
0.5-1 nm/sec SCAN
90% ACETONE
570
590
610
630
650
670
690

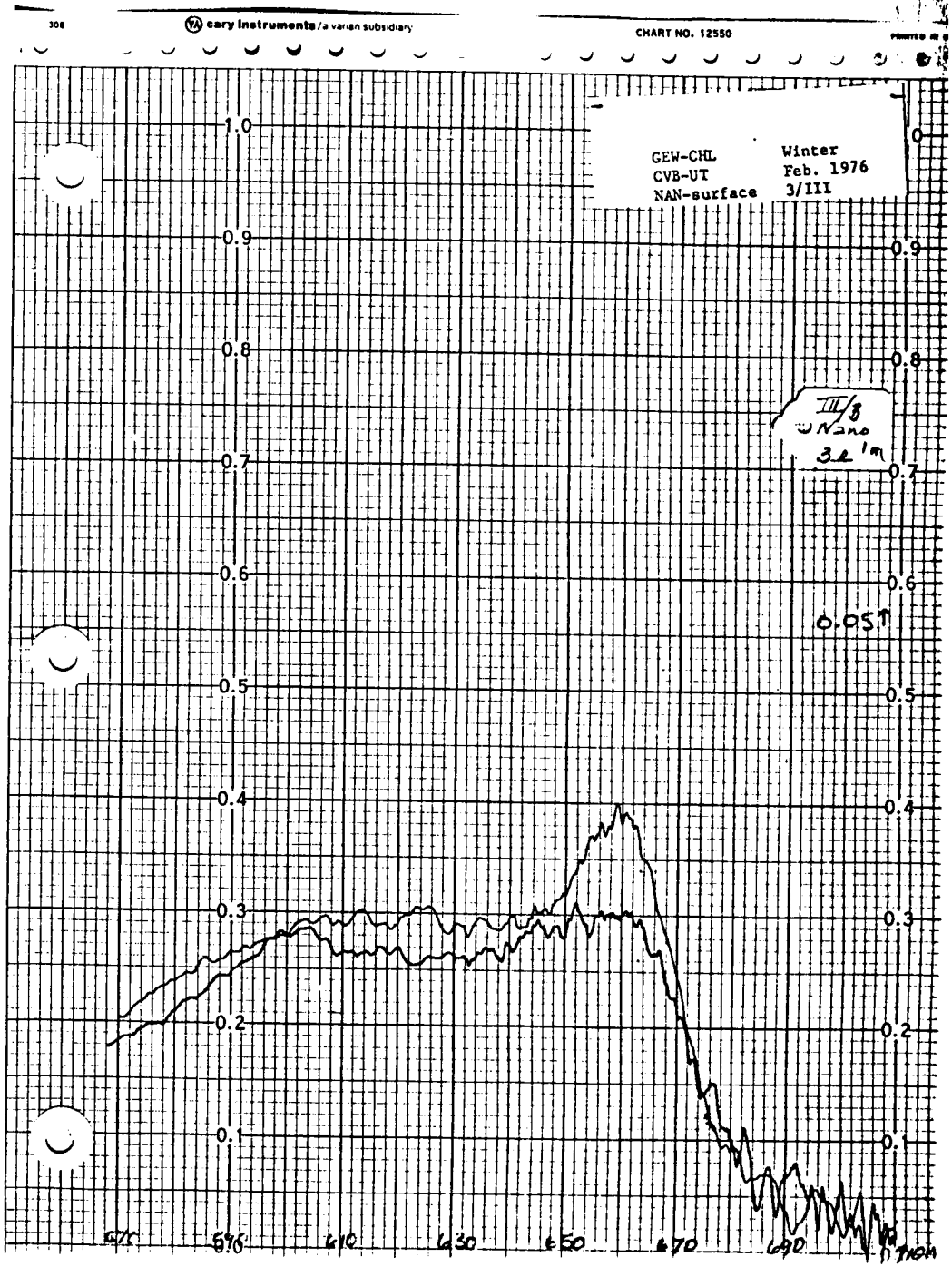

GBR-CHL Winter Cruise
CVB-UT Jan-Feb. 1976
bottom FPL 3/III
23 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0

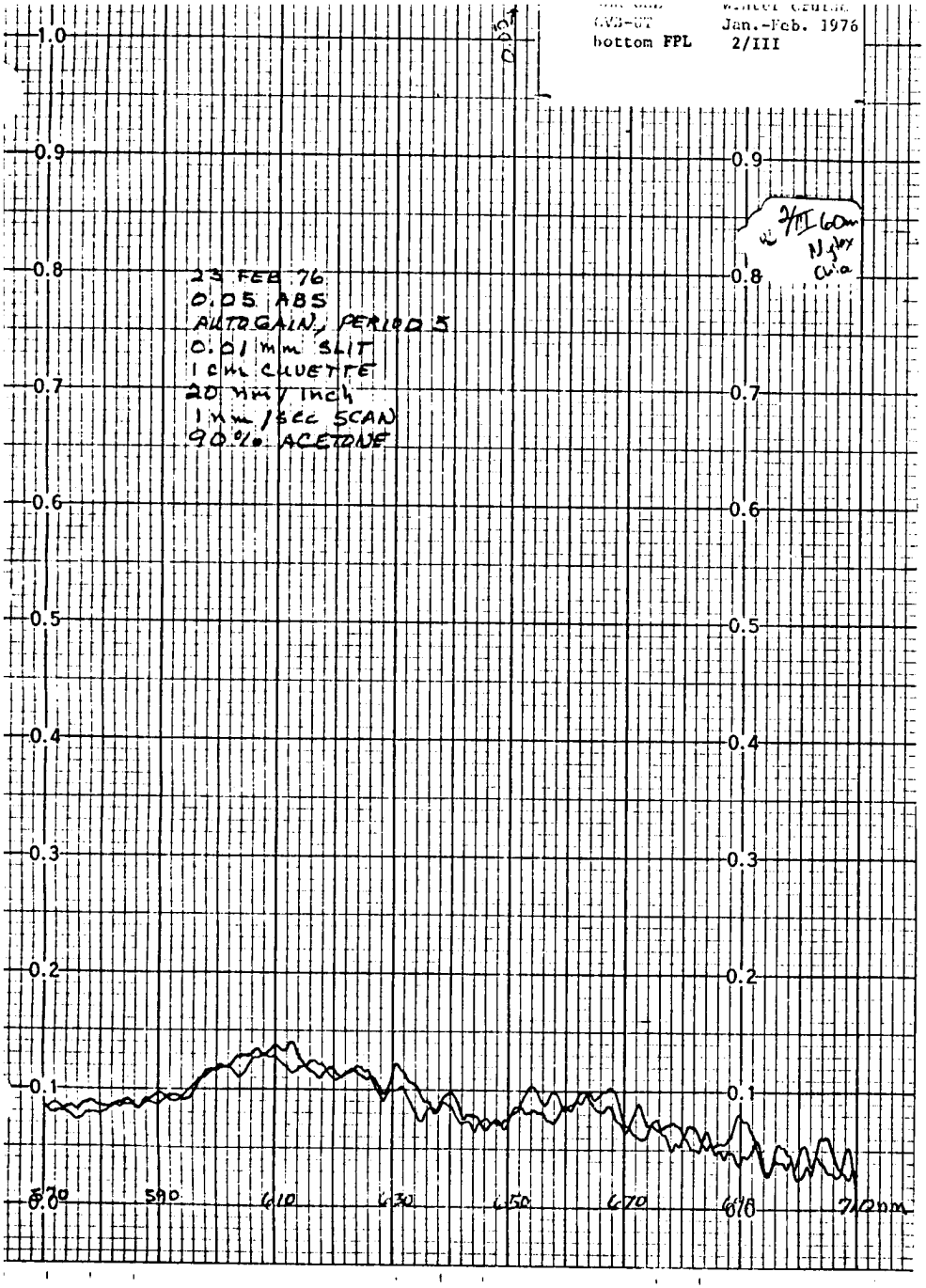

GEY-CHL Winter
CVB-UT Feb. 1976
NAN-bottom 3/III
25 FEB 76
0.05 ABS
AUTO GAIN, PERIOD 5
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
0.5 + 1 nm/sec SCAN
90 % ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0

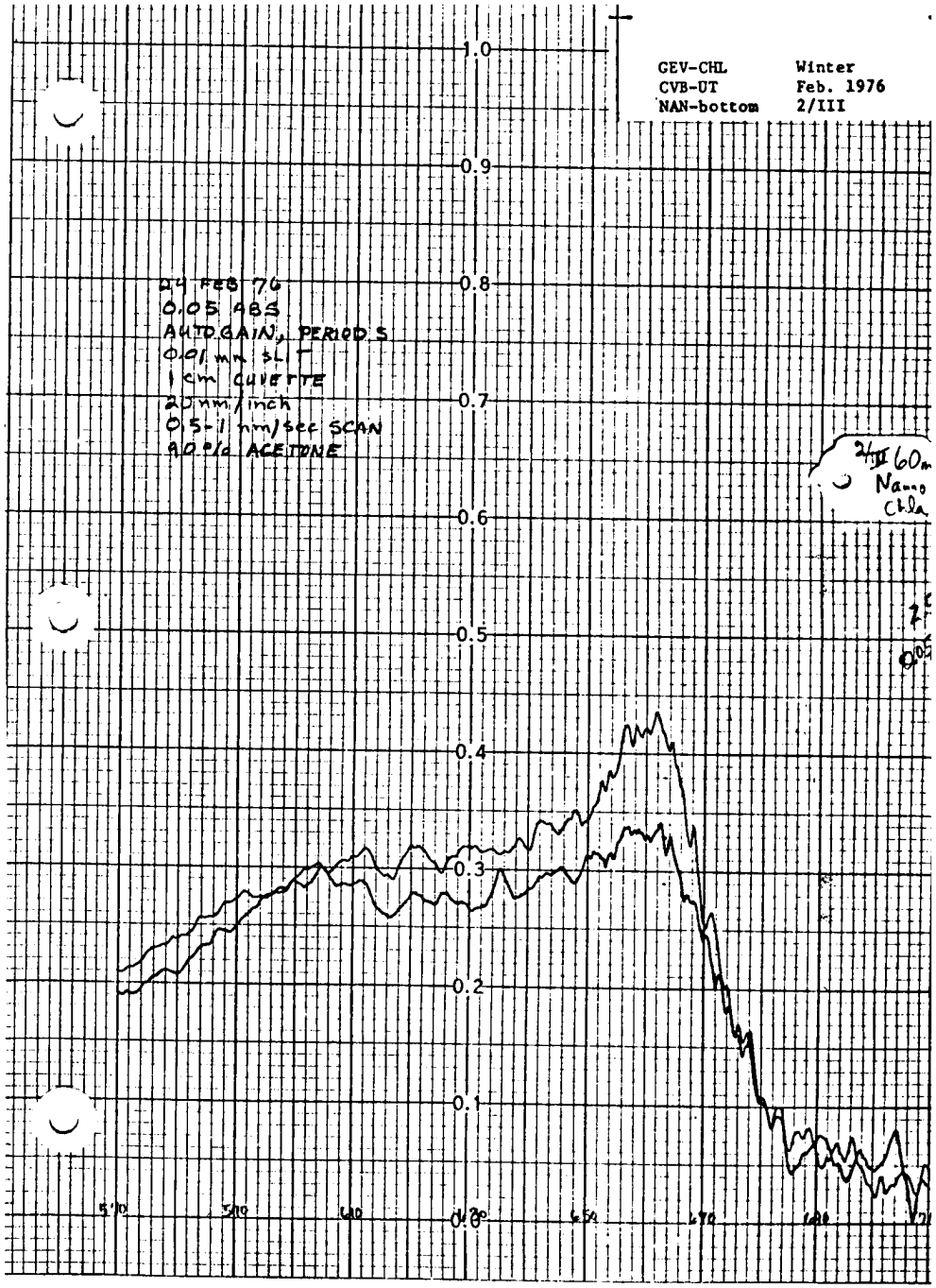

CVB-UT
1/2 p.z. FPL
Jan-Feb. 1976
3/III
III/3
24 in
Nytex
23 FEB 76
0.05 ABS
AUTO GAIN, PERIOD 5
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
1mm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710nm

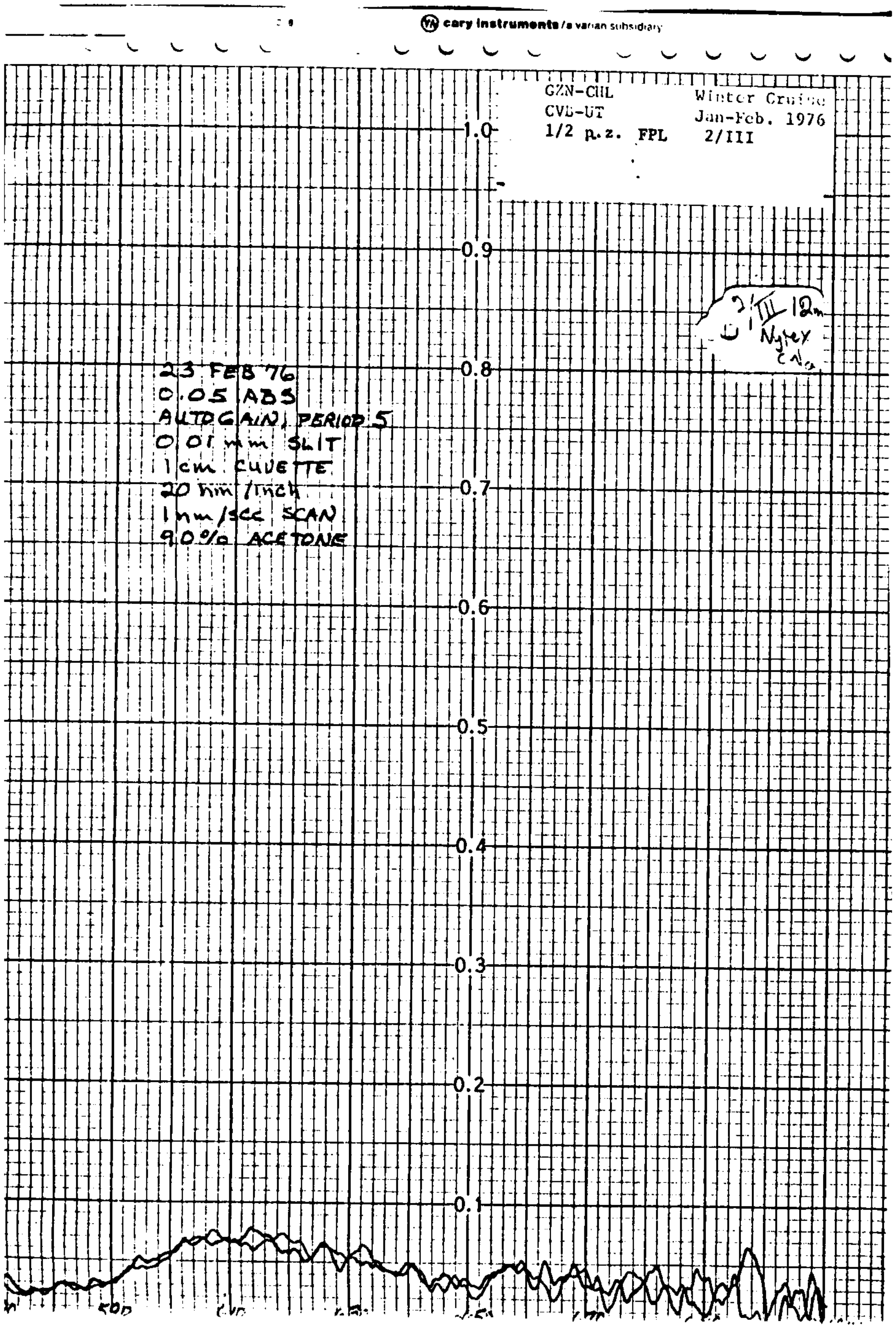

GEX-CHL
CVB-UT
NAN-1/2 p.z.
Winter
Feb. 1976
3/III
25 FEB 76
0.05 ABS
AUTO GAIN, PERIOD 5
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
0.5-1 nm/sec SCAN
90% ACETONE
3/III 24in Nytex CHL
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710

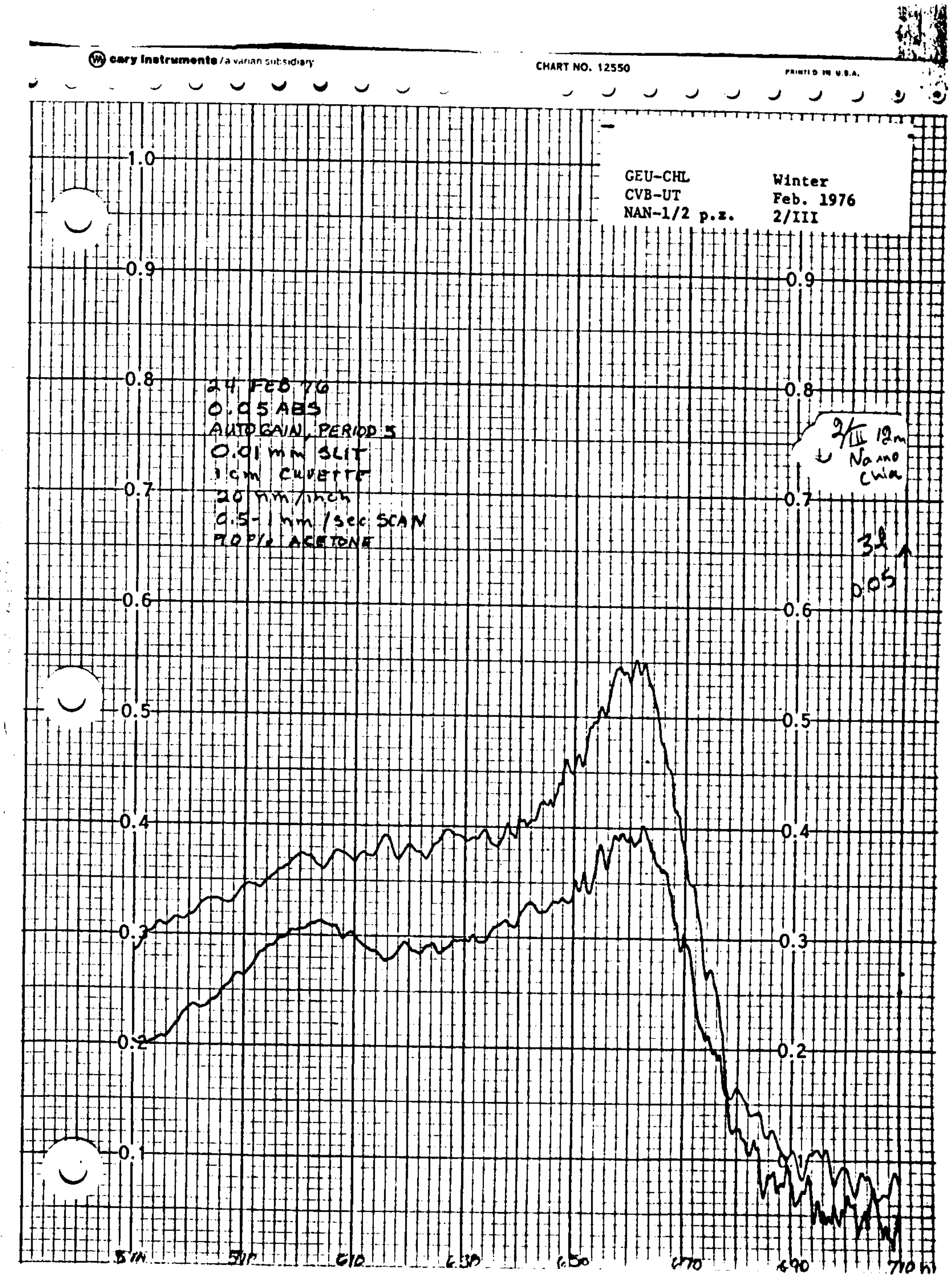

GSJ-CHL Winter Cruise
CVb-UT Jan-Feb. 1976
surface FPL 3/III
23 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
610
630
650
670
690
710 nm

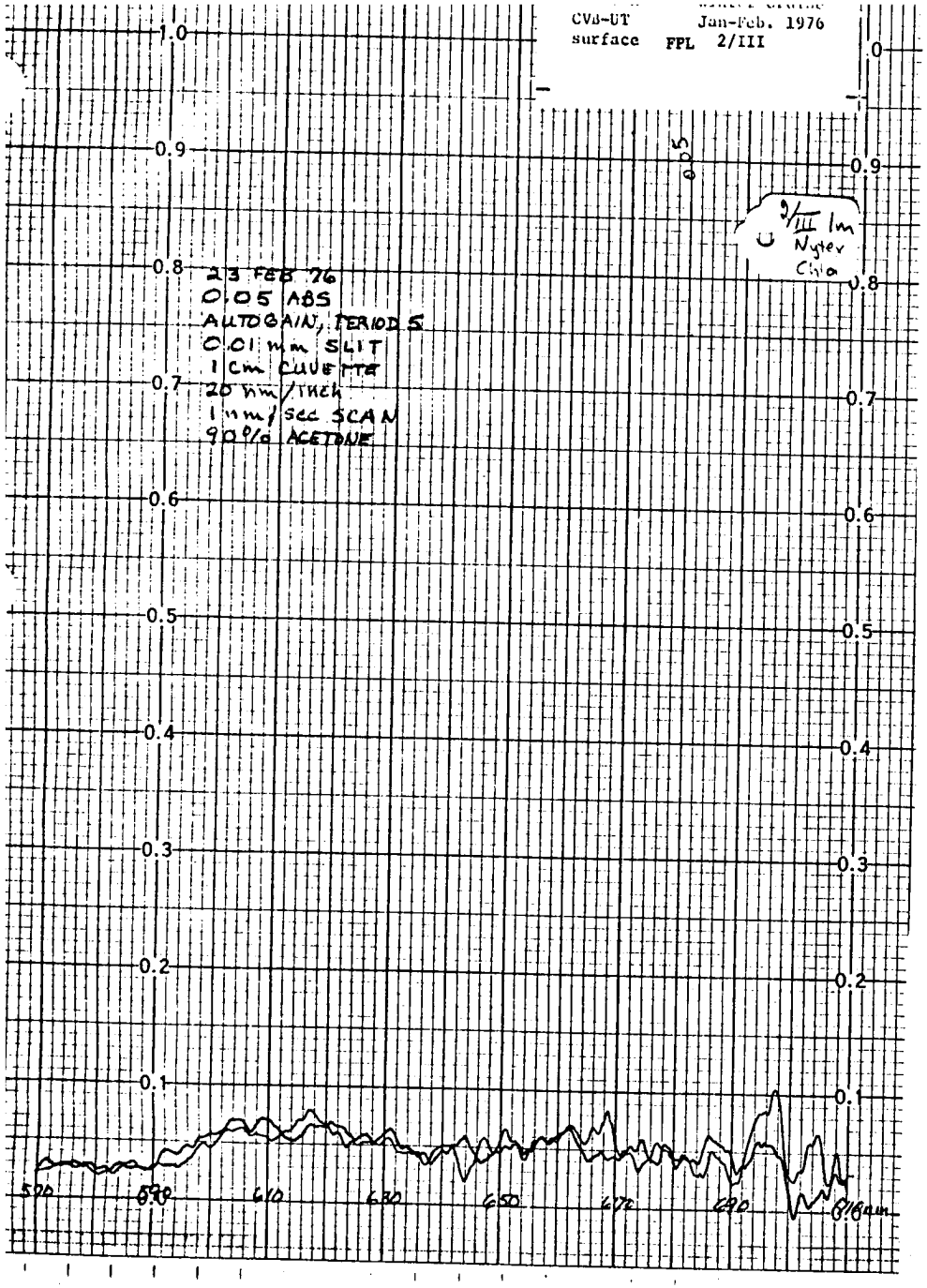

GEW-CHL Winter
CVB-UT Feb. 1976
NAN-surface 3/III
0.05
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 nm

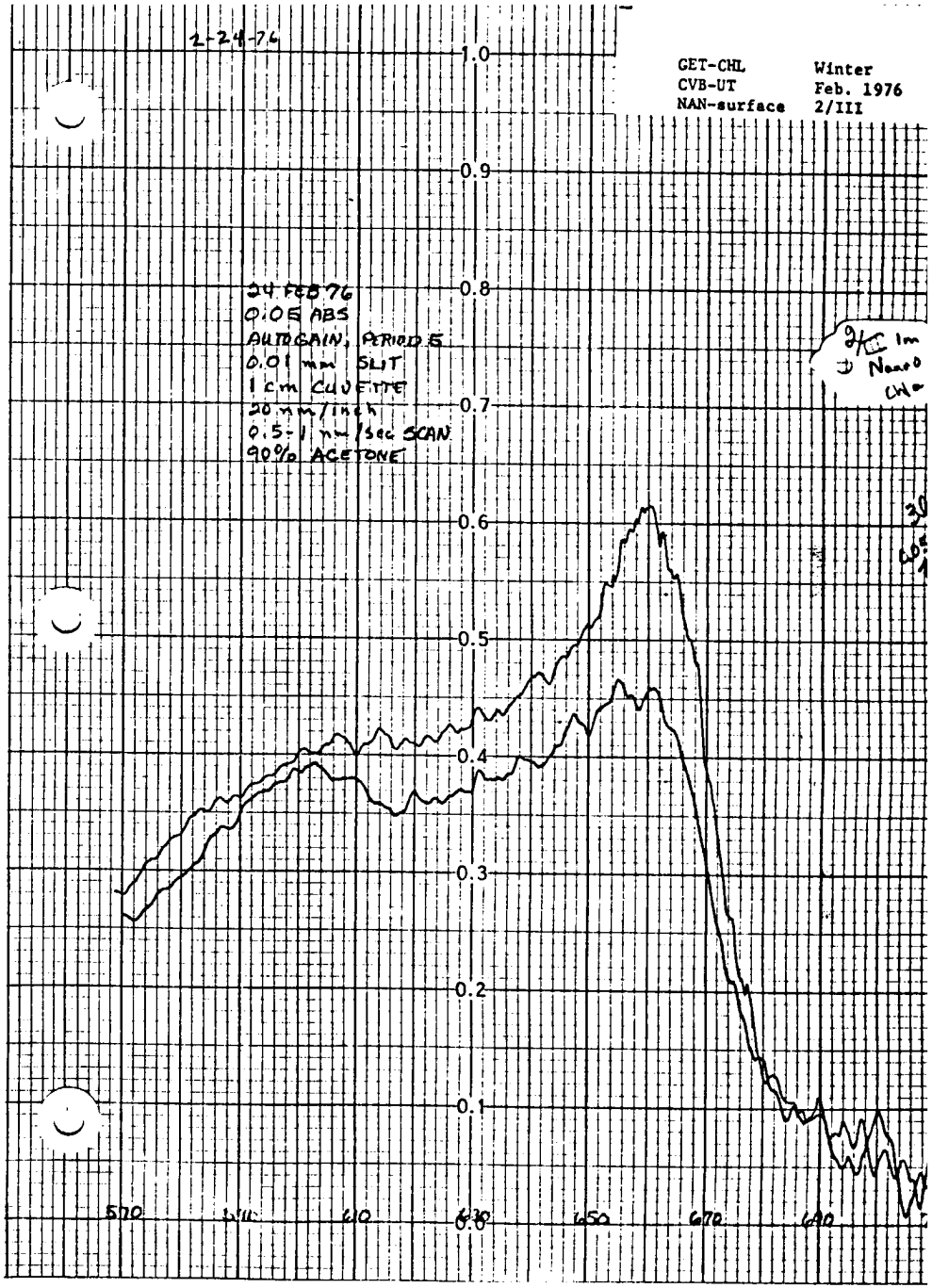

CVB-UT
bottom FPL
Jan.-Feb. 1976
2/III
23 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
2/III 60m
Nano
Chl a
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710nm

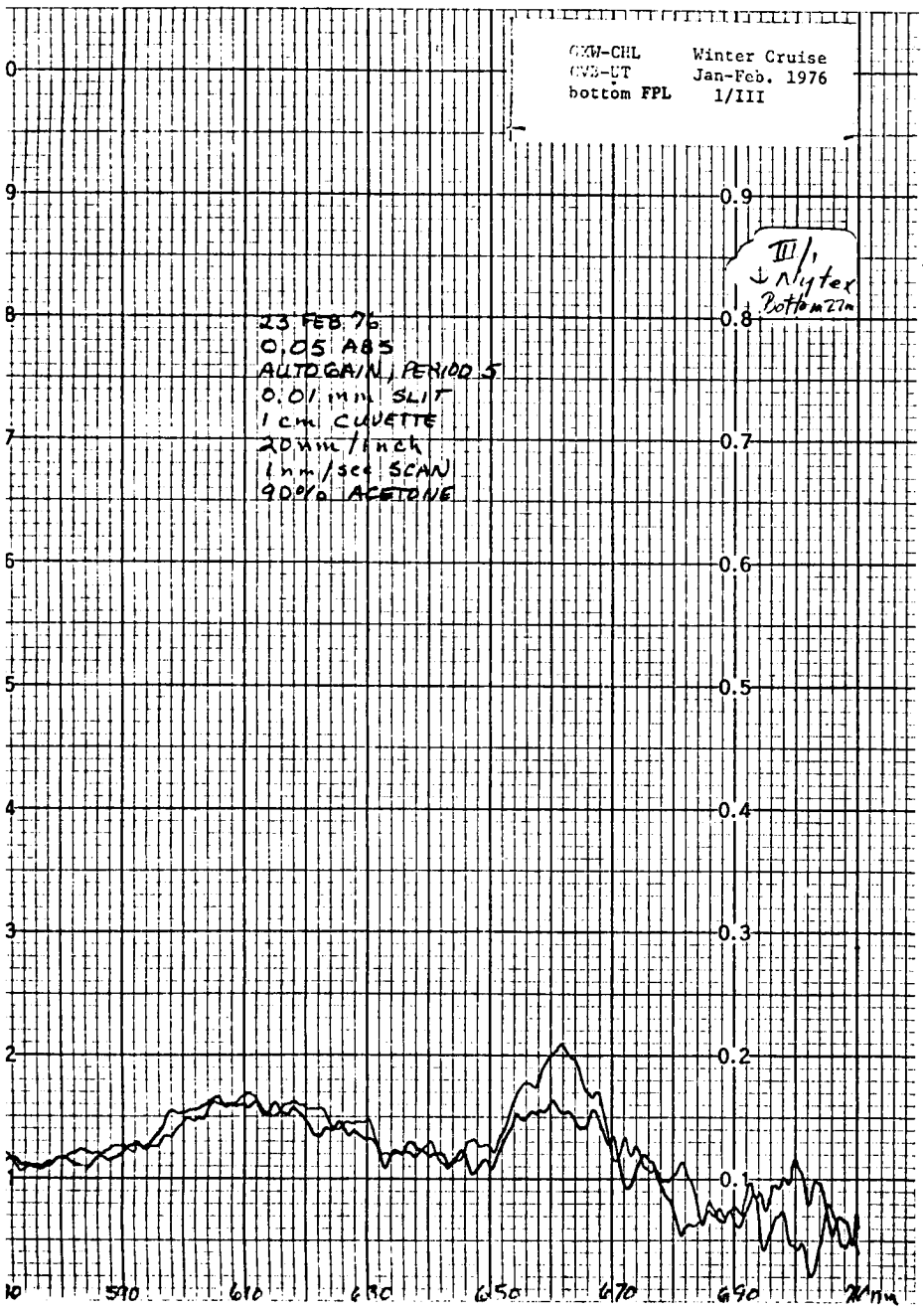

GEV-CHL
CVB-UT
NAN-bottom
Winter
Feb. 1976
2/III
24 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
0.5-1 nm/sec SCAN
90% ACETONE
2/III 60m
Nano
Chl a
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710

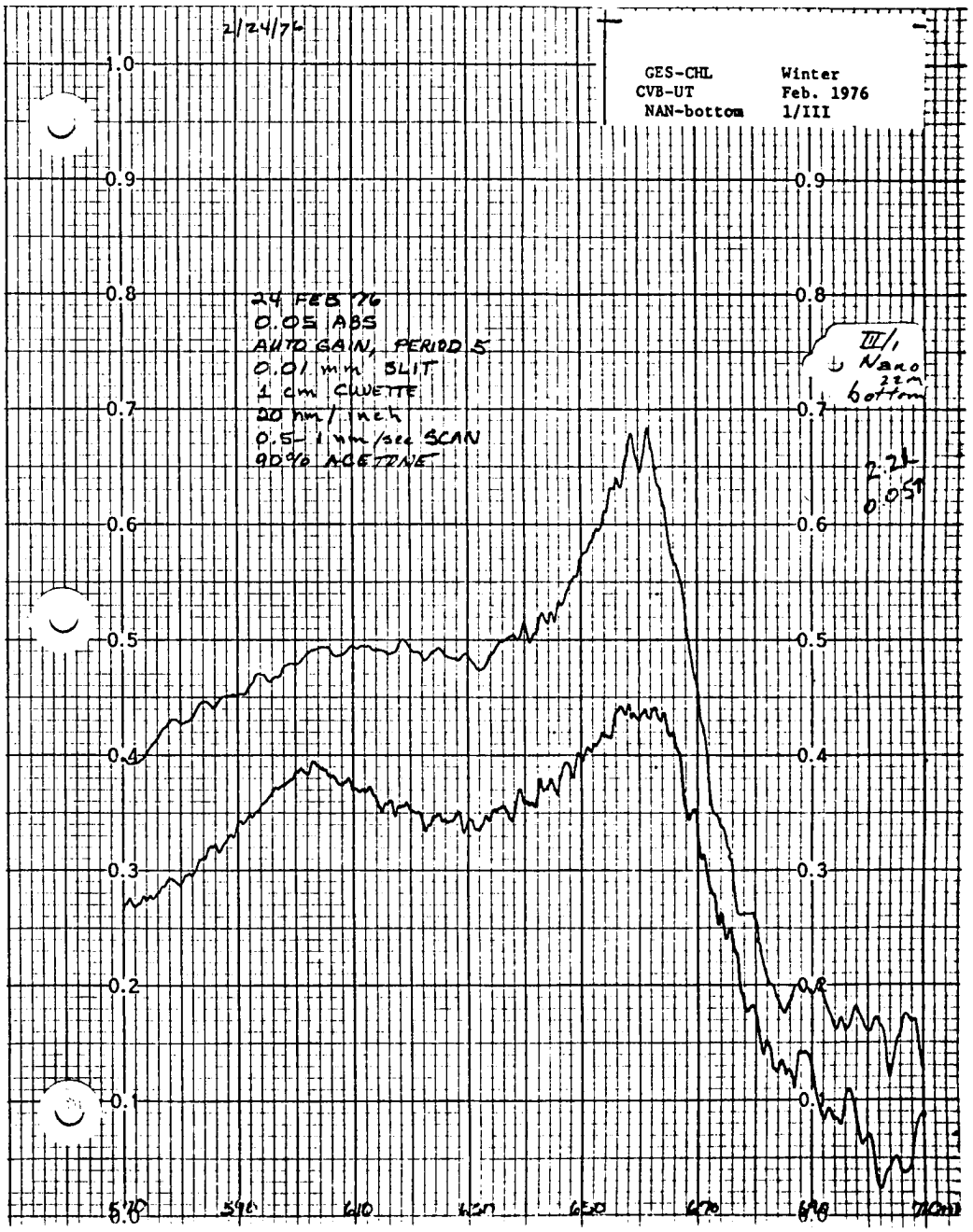

cary instruments / a varian subsidiary
GZN-CHL
CVB-UT
1/2 p.z. FPL
Winter Cruise
Jan-Feb. 1976
2/III
2/III 12m
23 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

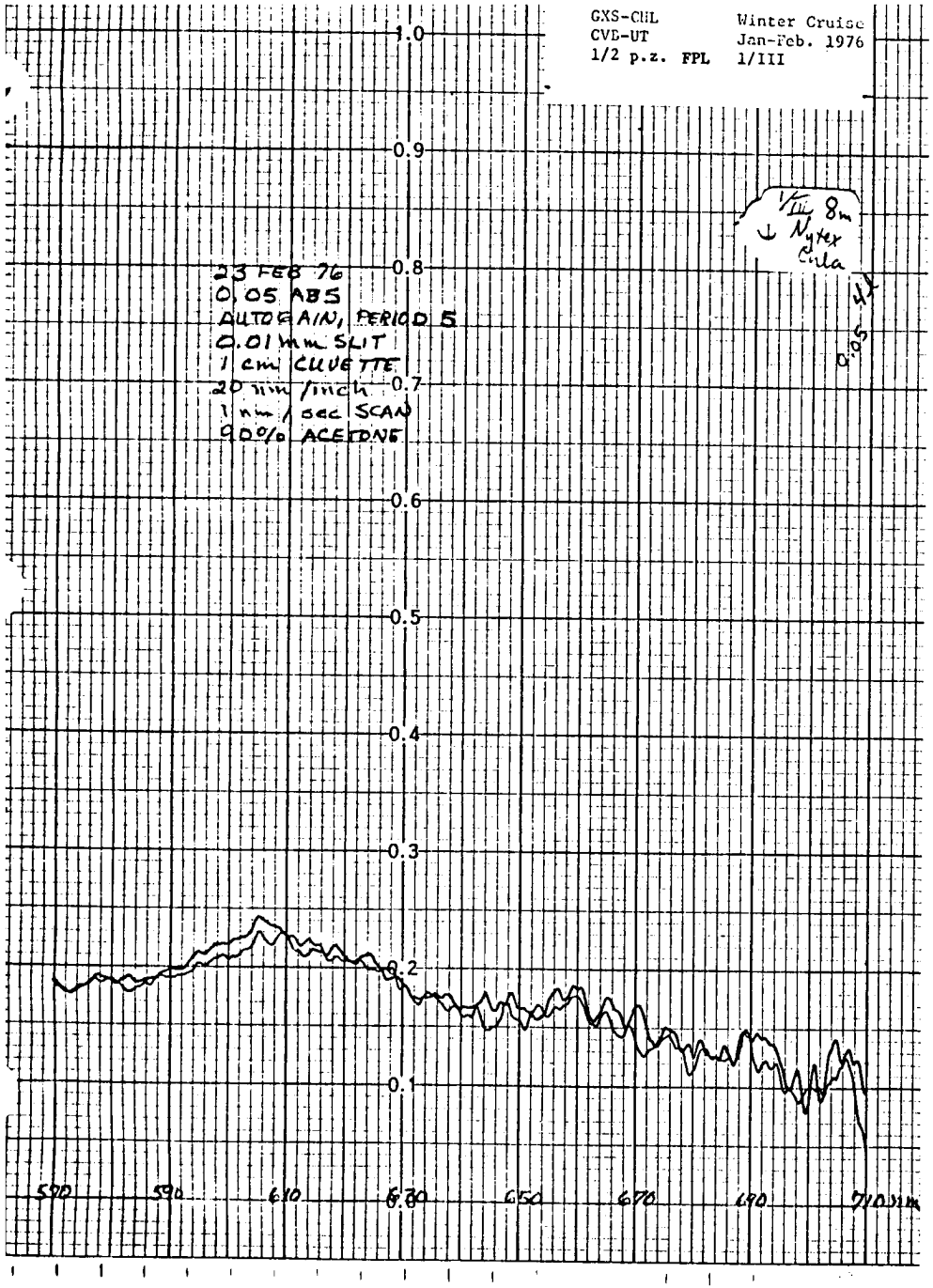

cary instruments / a varian subsidiary
CHART NO. 12550
PRINTED IN U.S.A.
GEU-CHL
CVB-UT
NAN-1/2 p.z.
Winter
Feb. 1976
2/III
2/III 12m
Nanno Chla
24 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
0.5-1 nm/sec SCAN
90% ACETONE
3λ
0.05
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
610
630
650
670
690
710 nm

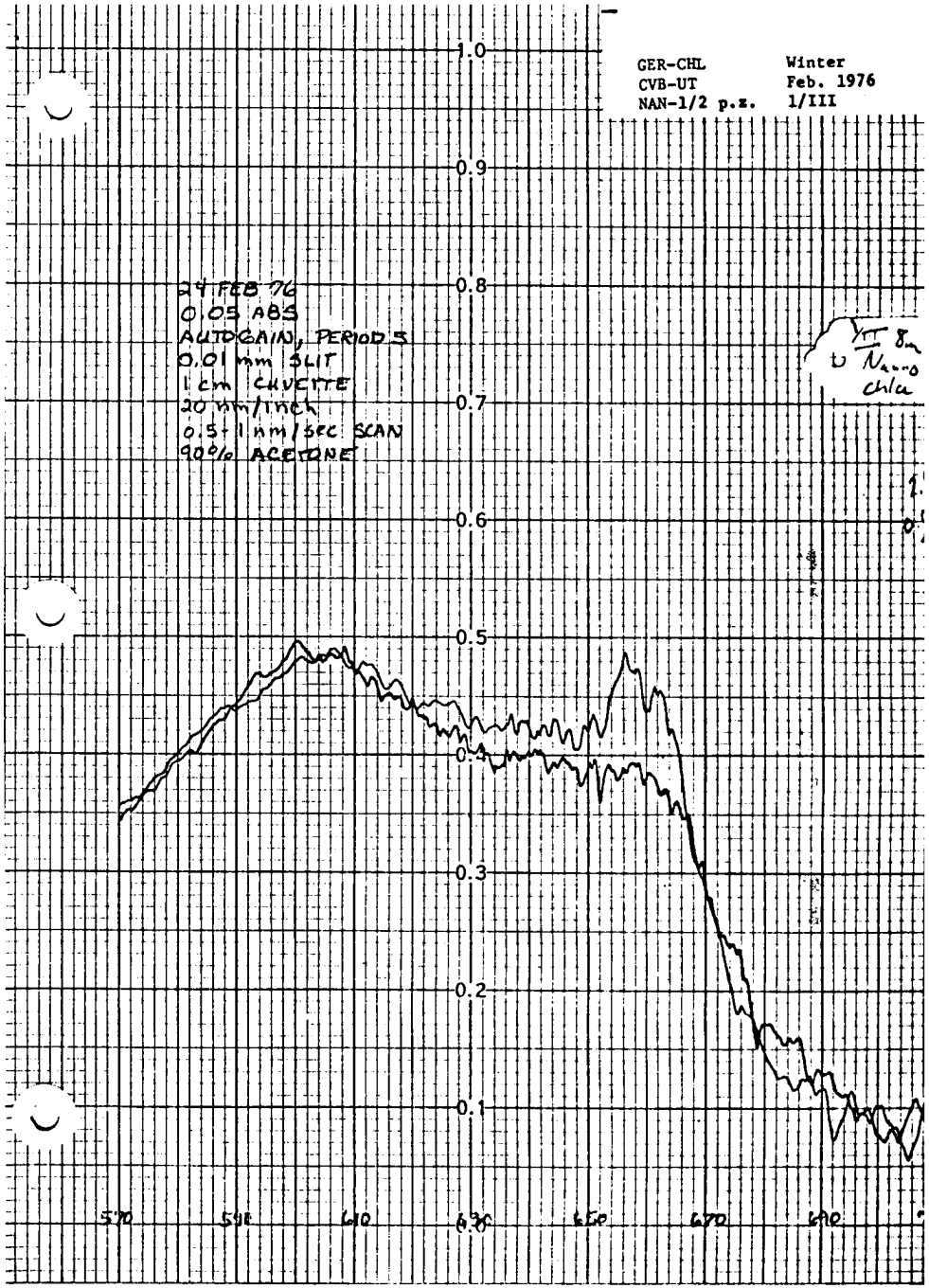

CVB-UT
surface
Jan-Feb. 1976
FPL 2/III
23 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/INCH
1 nm/sec SCAN
90% ACETONE
2/III Im
Nyter
Chla
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
590
610
630
650
670
690

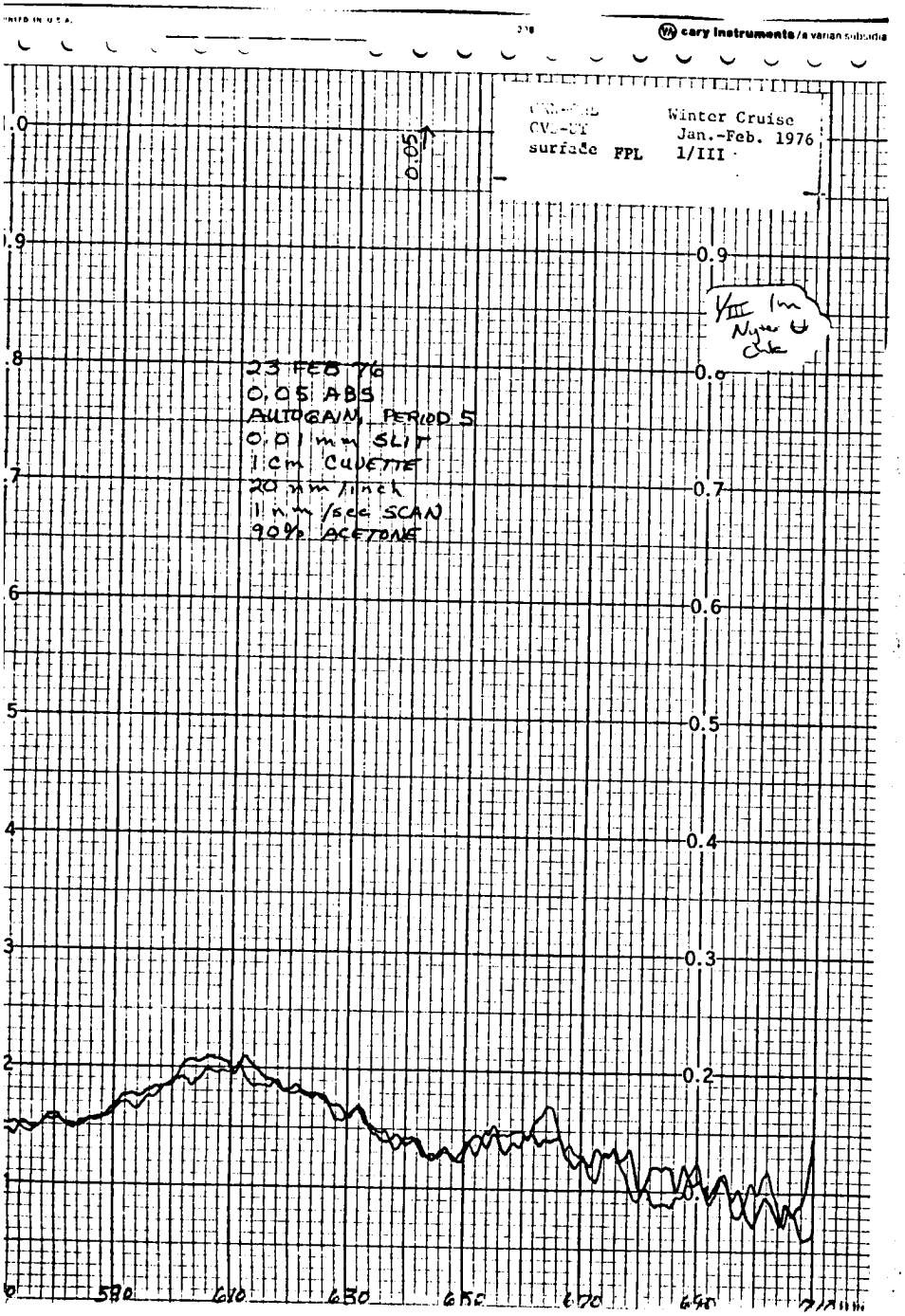

2-24-76
GET-CHL
CVB-UT
NAN-surface
Winter
Feb. 1976
2/III
24 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/INCH
0.5-1 nm/sec SCAN
90% ACETONE
2/III Im
Nano
Chla
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
610
630
650
670
690

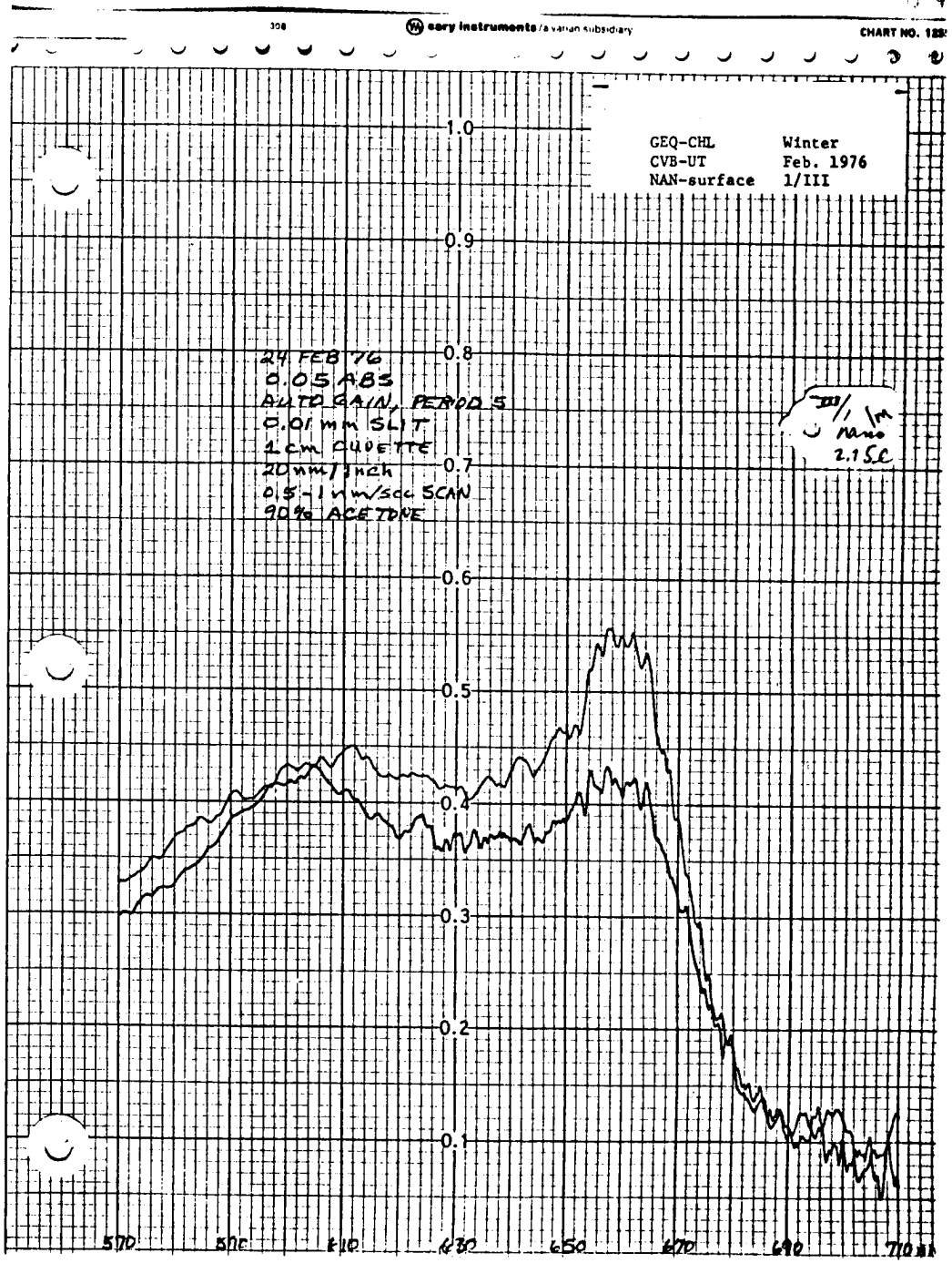

GXW-CHL
GVB-UT
bottom FPL
Winter Cruise
Jan-Feb. 1976
1/III
III/1
↓ Nister
Bottom 27m
23 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
590
610
630
650
670
690
nm

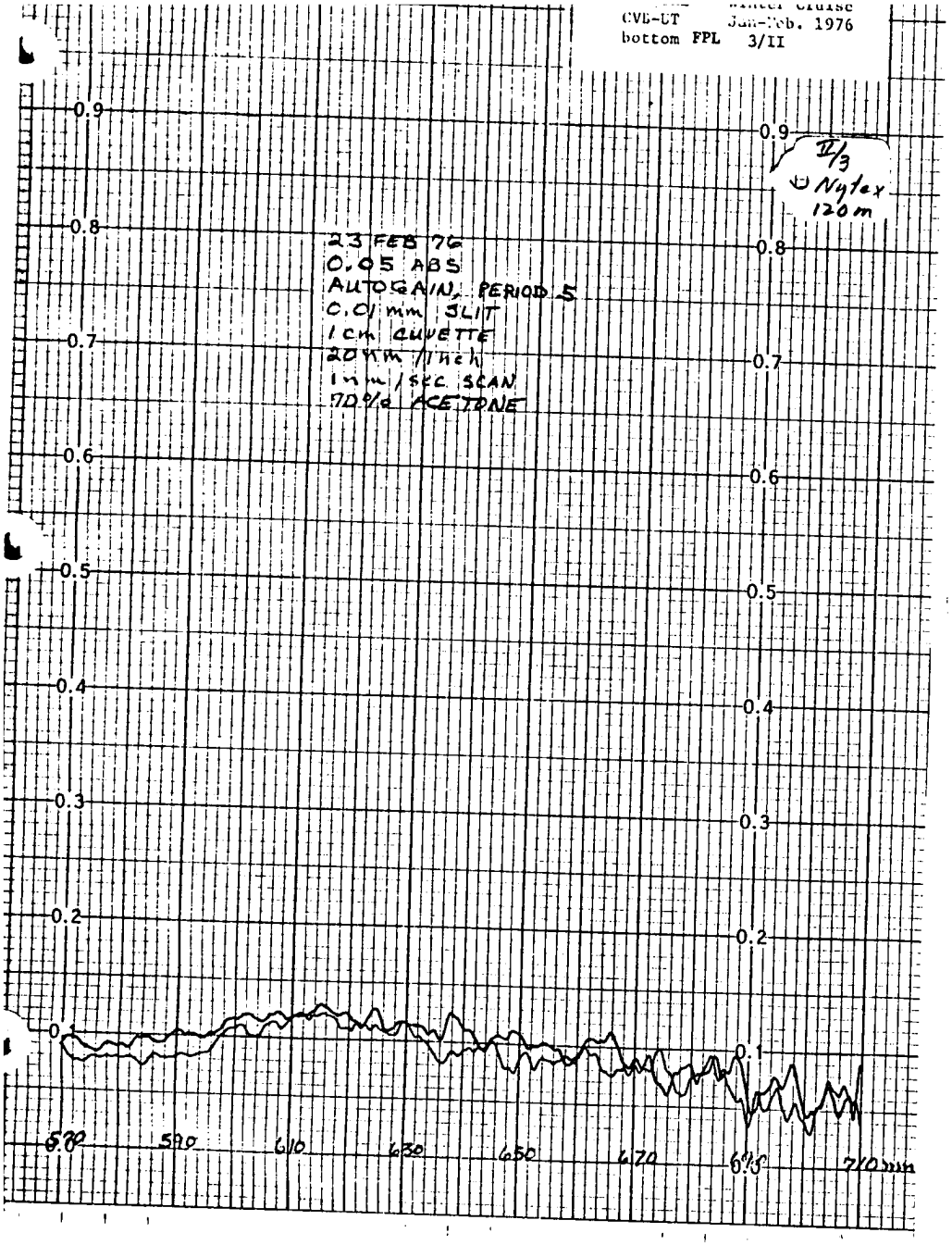

2/24/76
GES-CHL
CVB-UT
NAN-bottom
Winter
Feb. 1976
1/III
24 FEB 76
0.05 ABS
AUTO GAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
0.5-1 nm/sec SCAN
90% ACETONE
III/1
↓ Nano
27m
bottom
2.21
0.05
590
610
630
650
670
690
nm

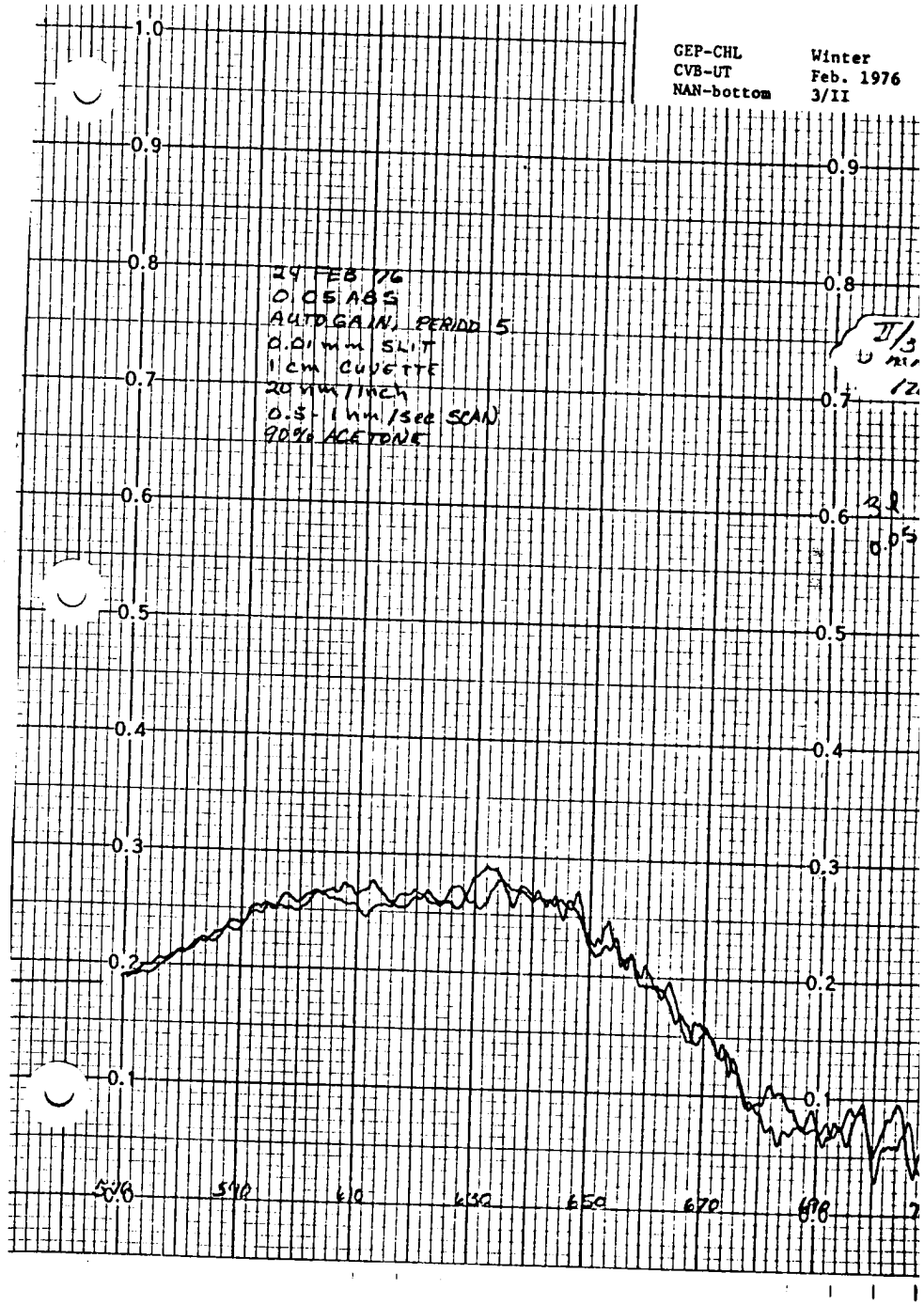

GXS-CHL
CVB-UT
1/2 p.z. FPL
Winter Cruise
Jan-Feb. 1976
1/III
1/III 8m
↓ Nytex
Chla
23 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
590
610
630
650
670
690
710 nm


GER-CHL
CVB-UT
NAN-1/2 p.z.
Winter
Feb. 1976
1/III
1/III 8m
↓ Nanno
Chla
24 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
0.5+1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.3
0.2
0.1
570
590
610
630
650
670
690


cary instruments/a varian subsidiary
Winter Cruise
Jan.-Feb. 1976
surface FPL 1/III
0.05
1/III 1m
23 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
580
600
630
650
670
690


cary instruments/a varian subsidiary
CHART NO.
GEQ-CHL Winter
CVB-UT Feb. 1976
NAN-surface 1/III
24 FEB 76
0.05 ABS
AUTO GAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
0.5-1 nm/sec SCAN
90% ACETONE
1/III 1m
2.1 SC
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710


CVB-UT
bottom FPL
Winter Cruise
Jan-Feb. 1976
3/II
II/3
Nylex
120m
23 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
70% ACETONE
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
590
610
630
650
670
690
710nm


GEP-CHL
CVB-UT
NAN-bottom
Winter
Feb. 1976
3/II
24 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
0.5 - 1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
590
610
630
650
670

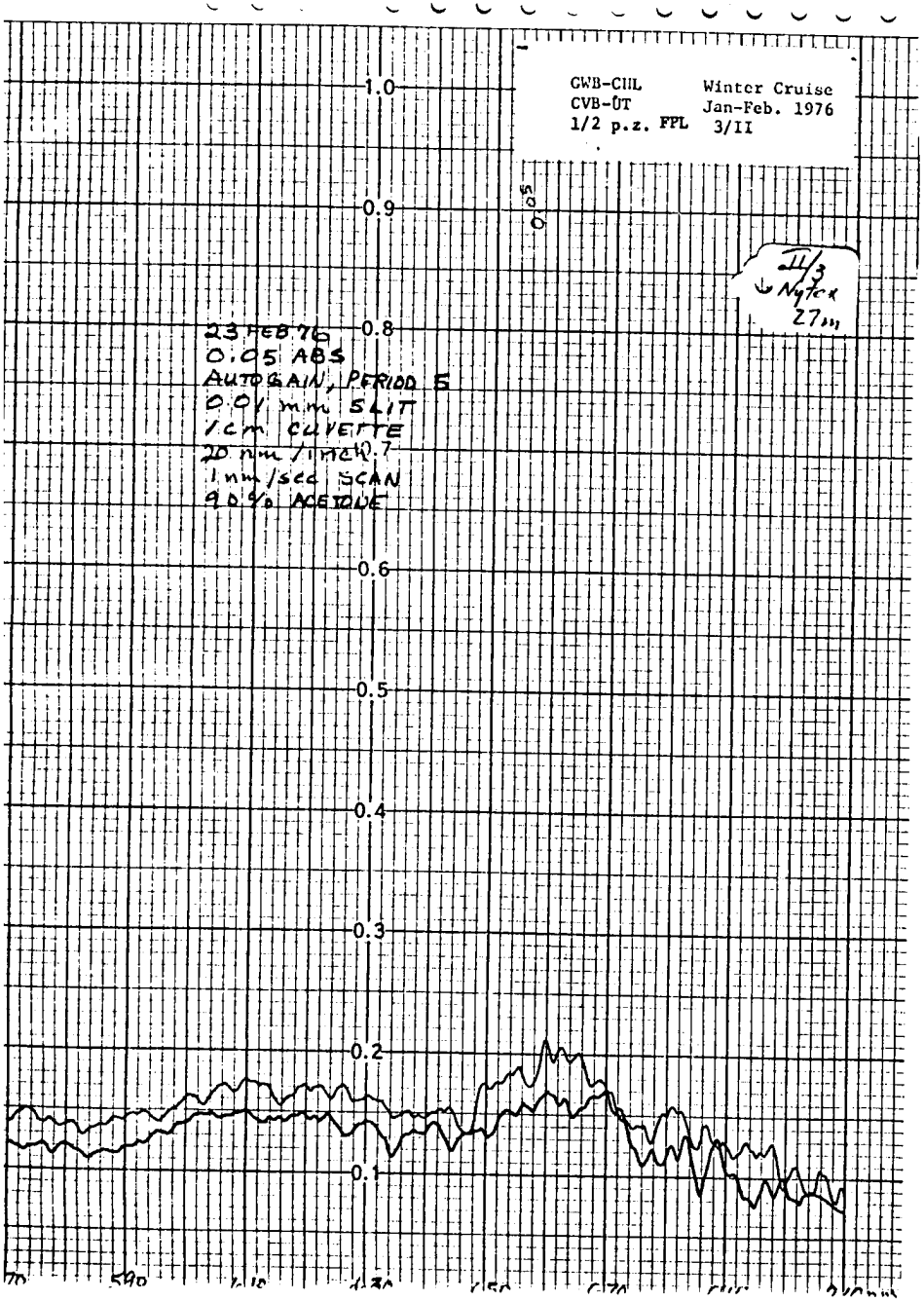
cary instruments / a varian subsidiary

CHART NO. 12550

GWB-CHL Winter Cruise
CVB-UT Jan-Feb. 1976
1/2 p.z. FPL 3/II

II/3
↓ Nytex
27m

23 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm / inch
1 nm/sec SCAN
90% ACETONE



cary instruments / a varian subsidiary

CHART NO. 12550

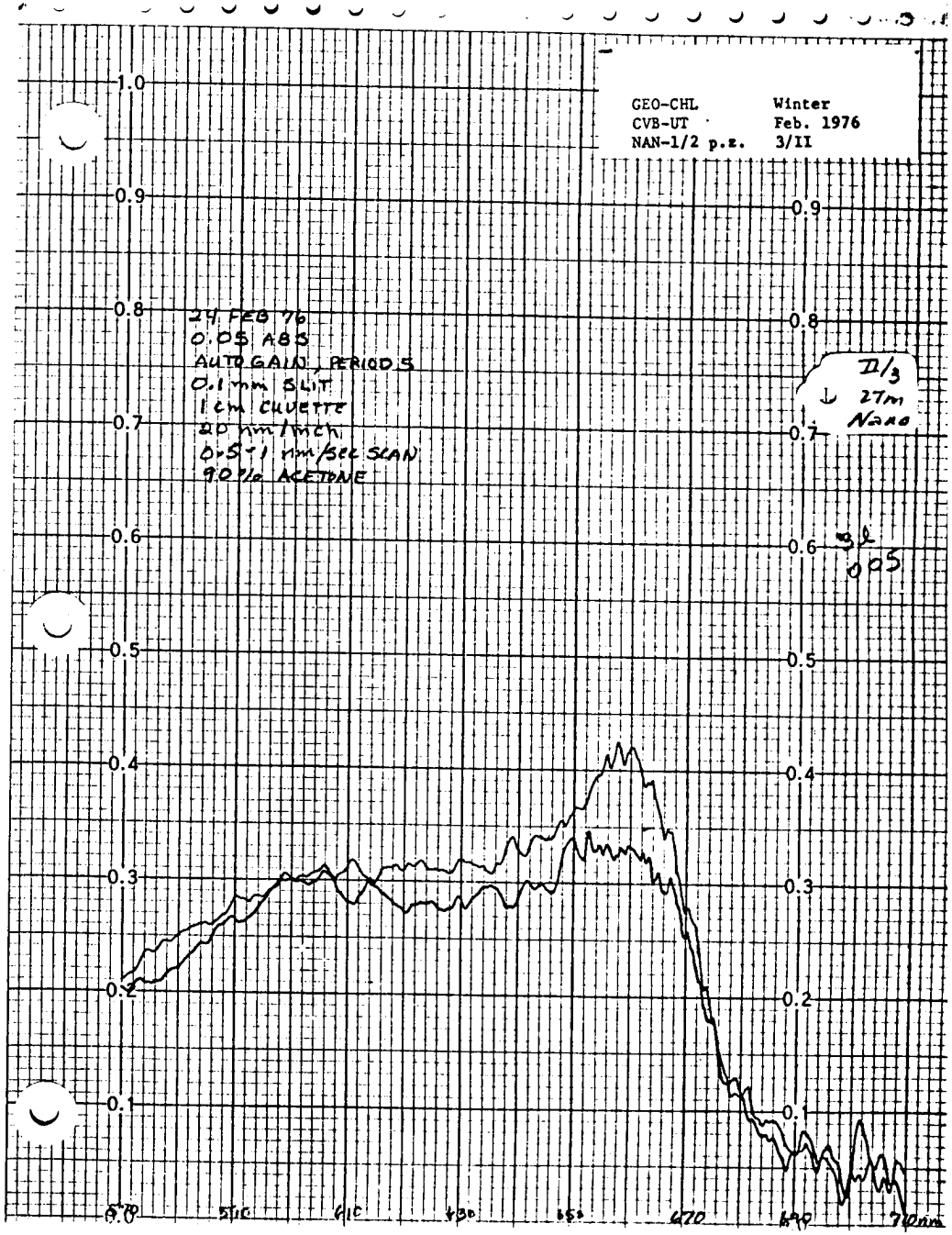
PRINTED IN U.S.A.

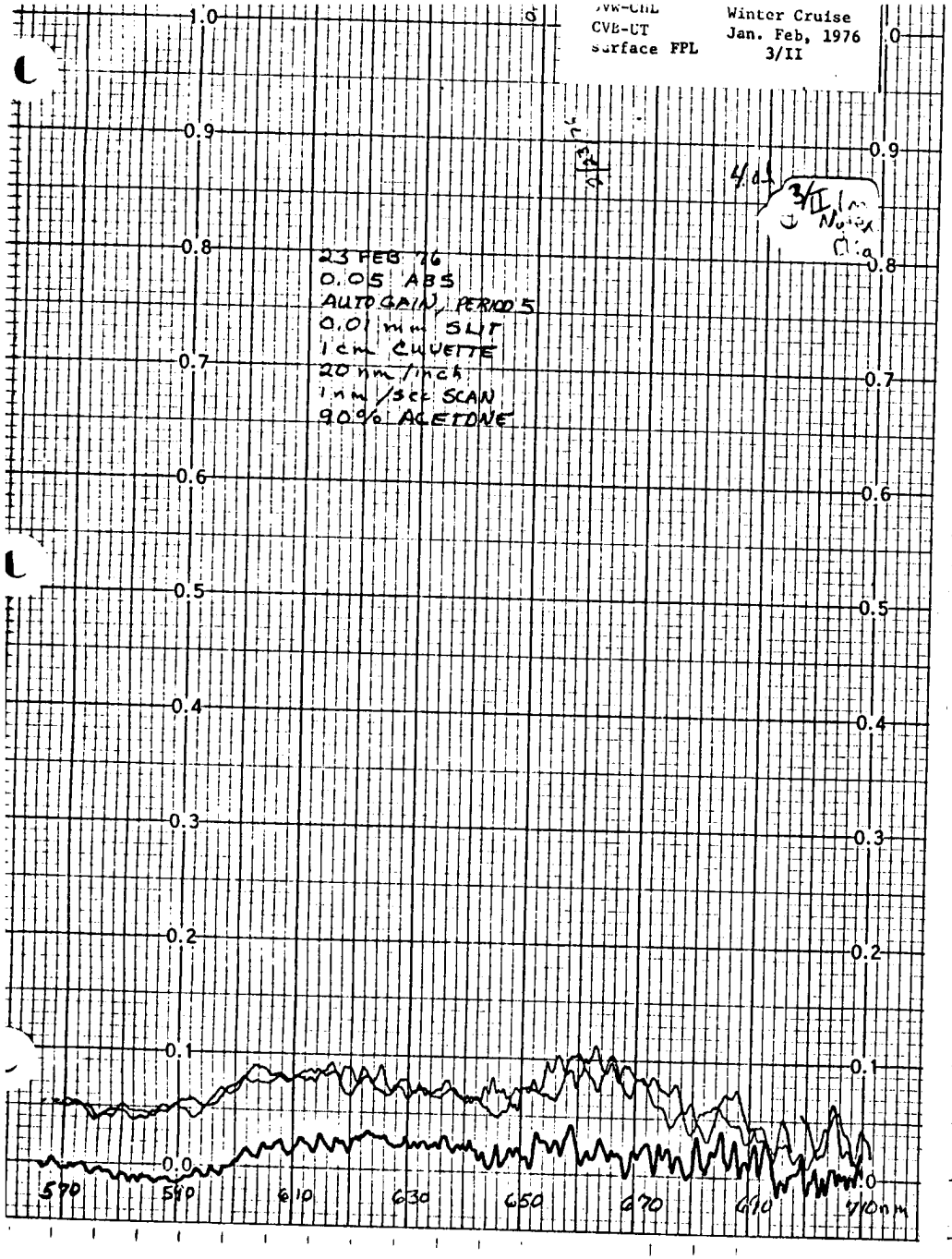
GEO-CHL Winter
CVB-UT Feb. 1976
NAN-1/2 p.z. 3/II

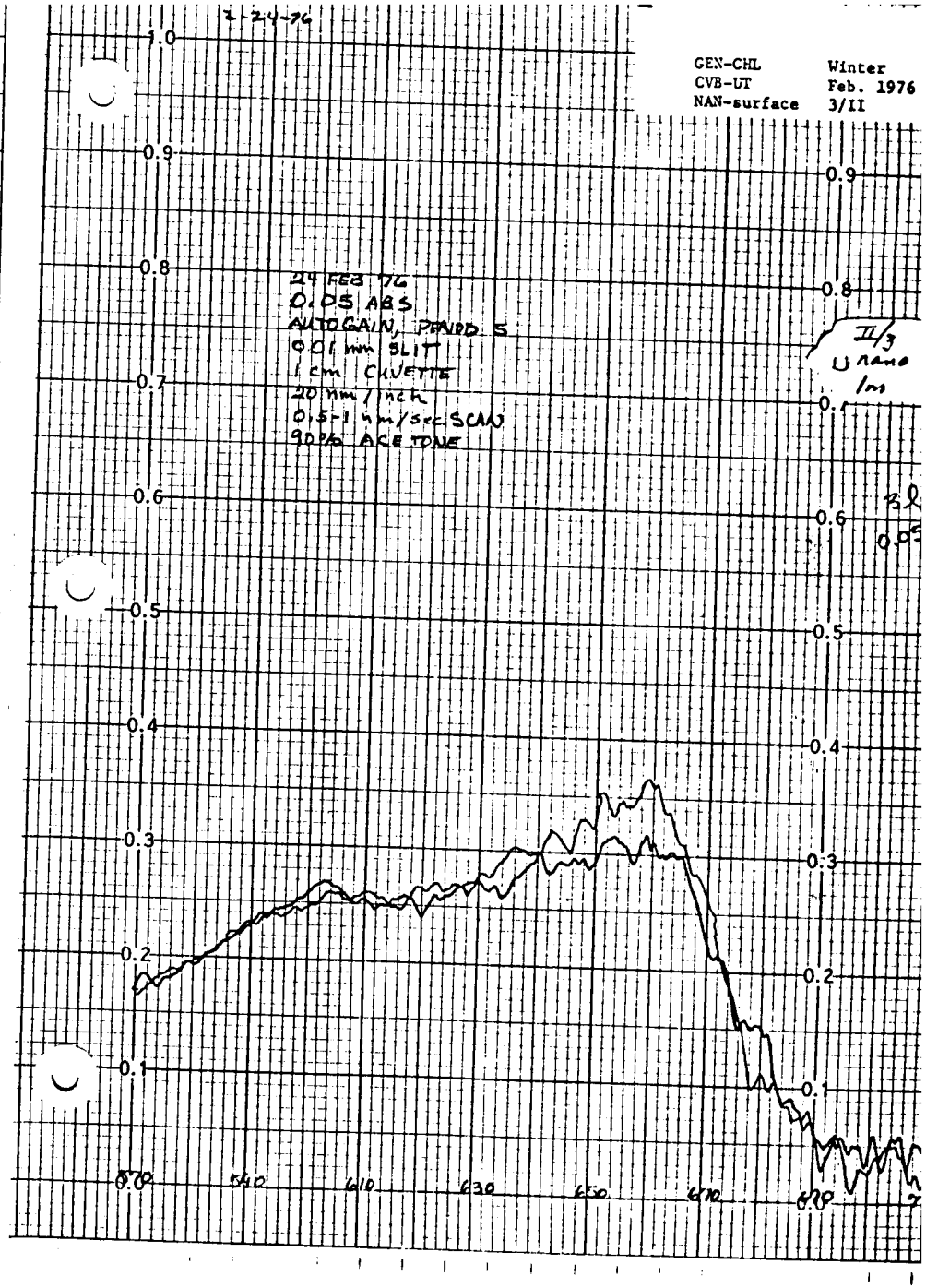
24 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.1 mm SLIT
1 cm CUVETTE
20 nm/inch
0.5-1 nm/sec SCAN
90% ACETONE

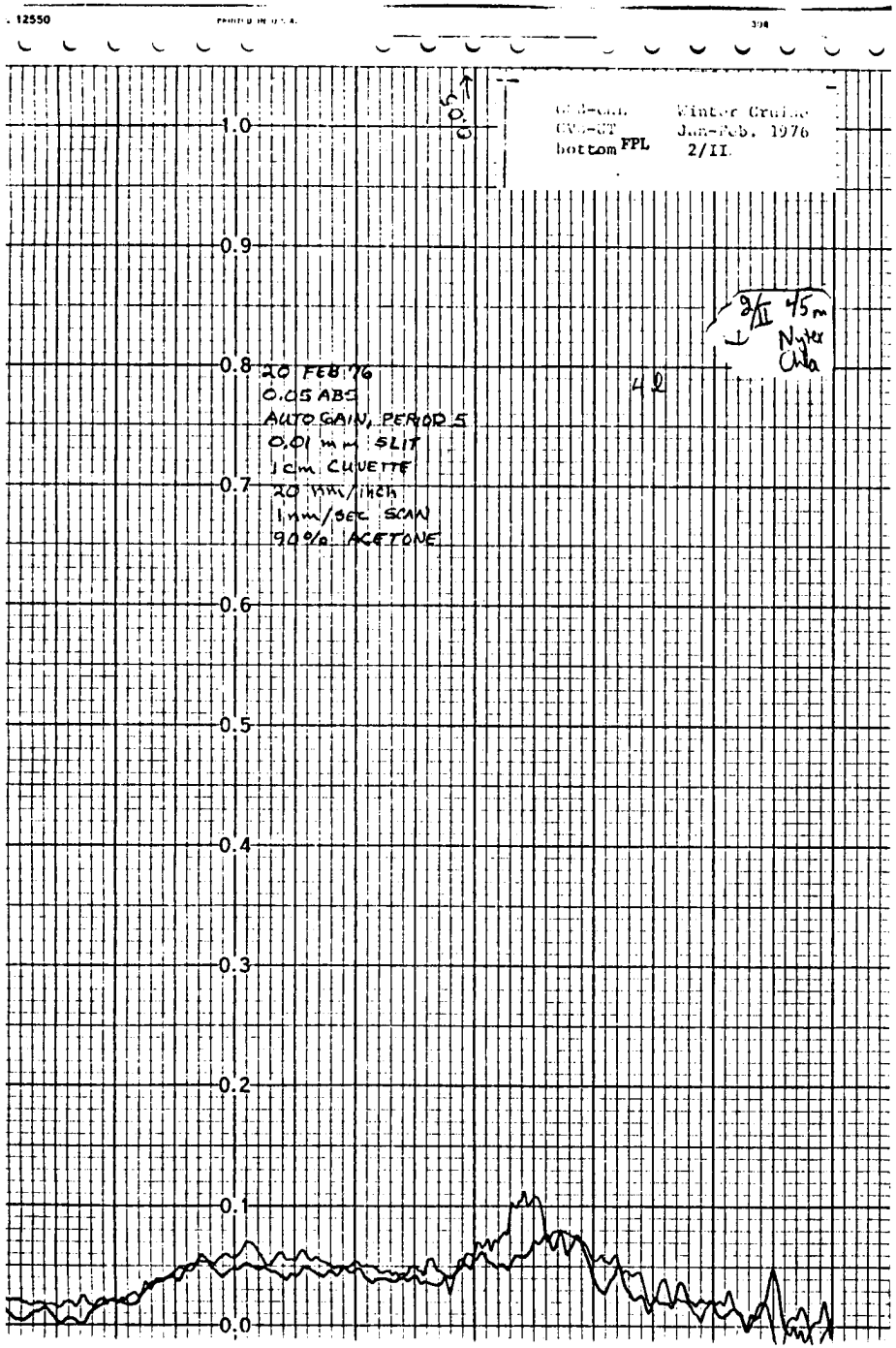
II/3
↓ 27m
Nano

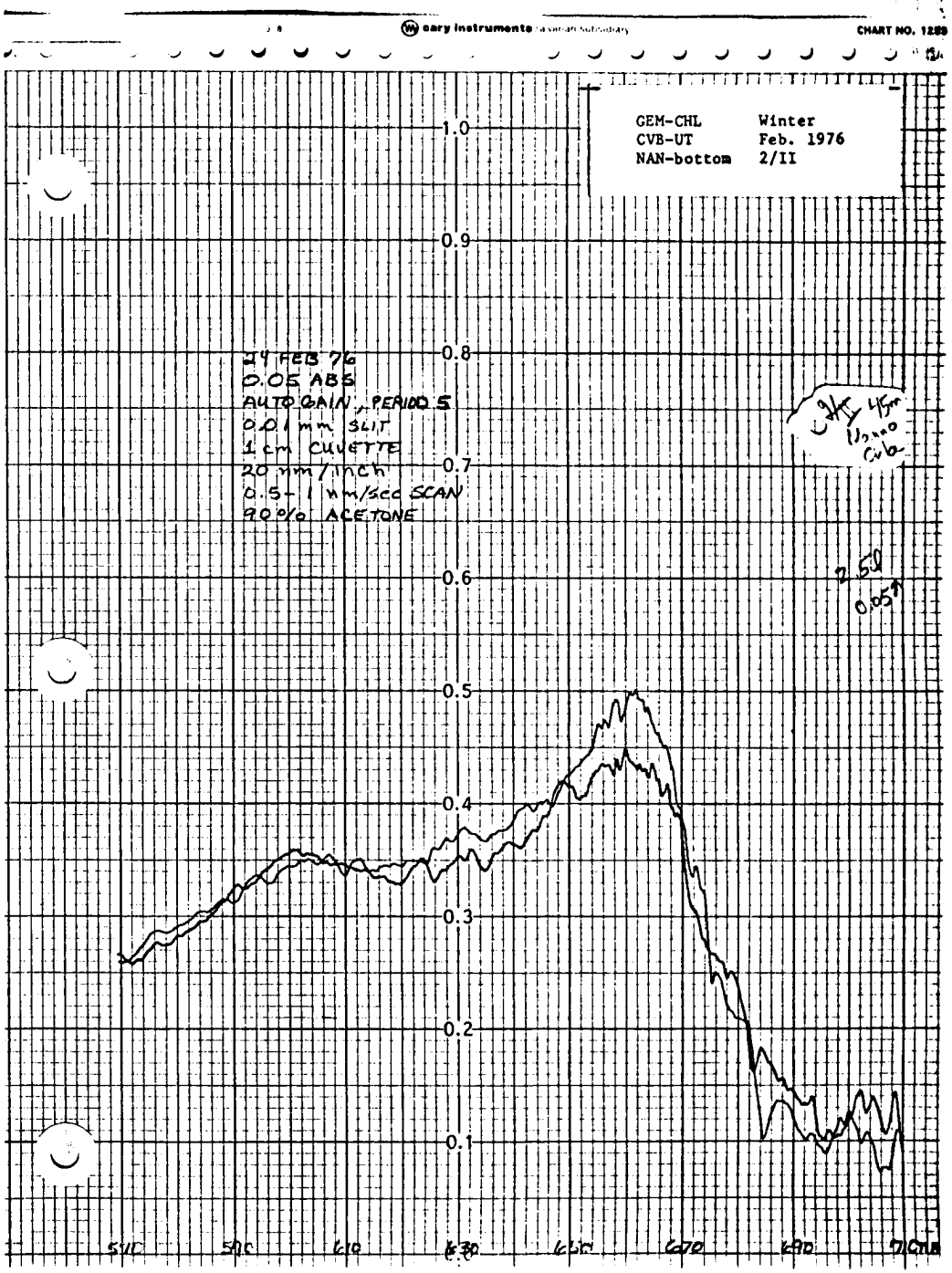
3 & 005

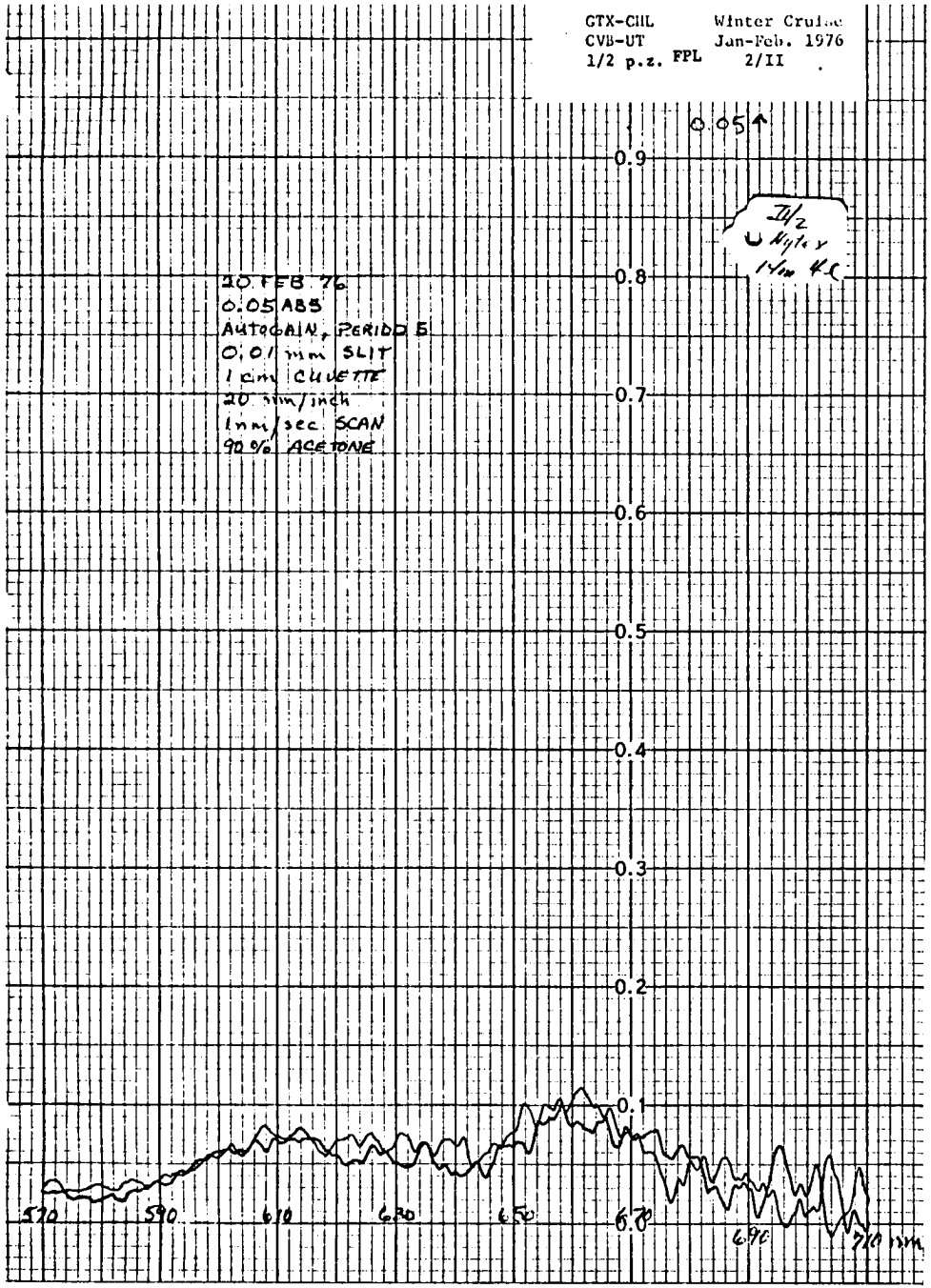


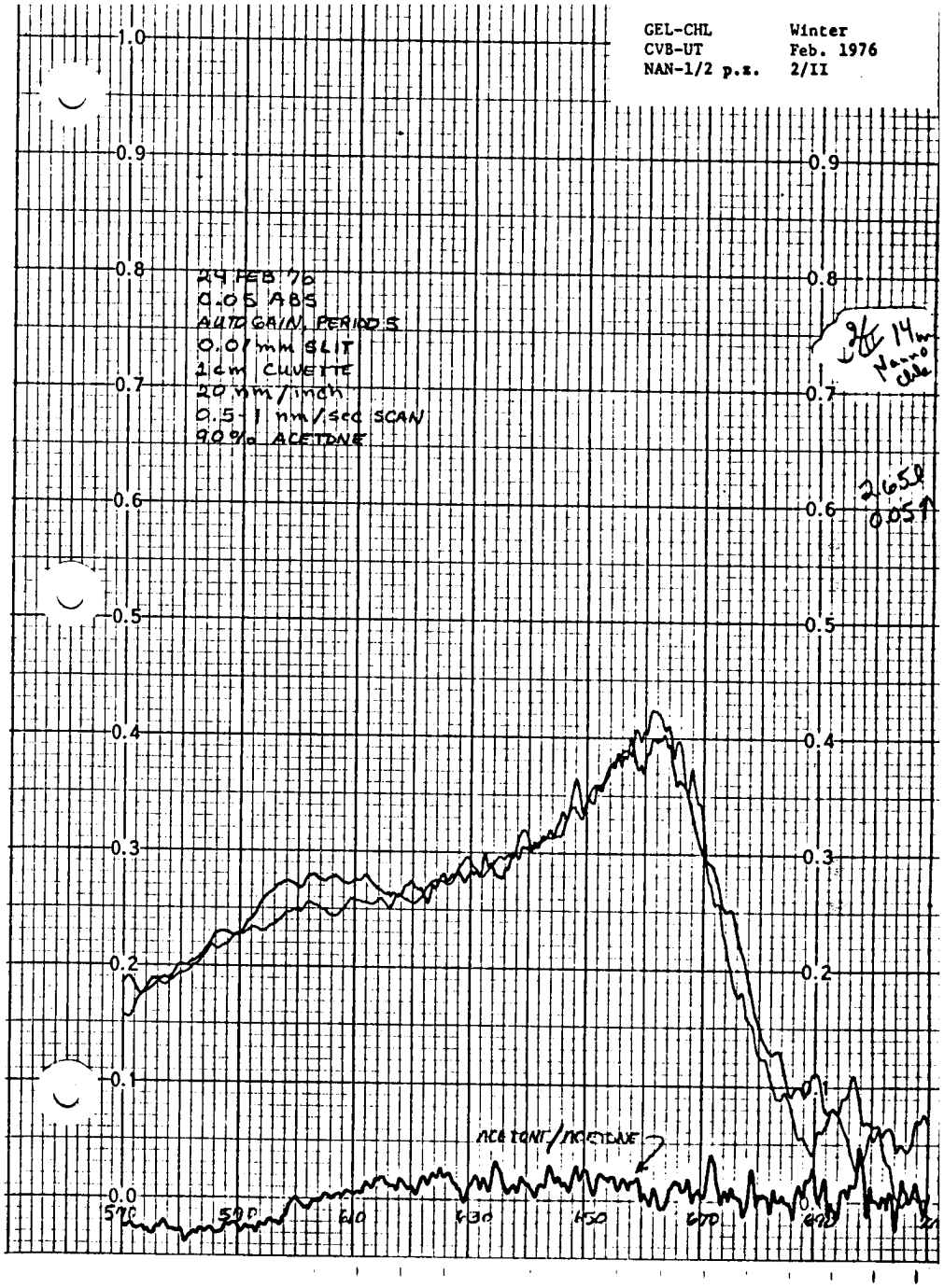

CVB-UT
surface FPL
Winter Cruise
Jan. Feb, 1976
3/II
23 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
3/II
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710nm

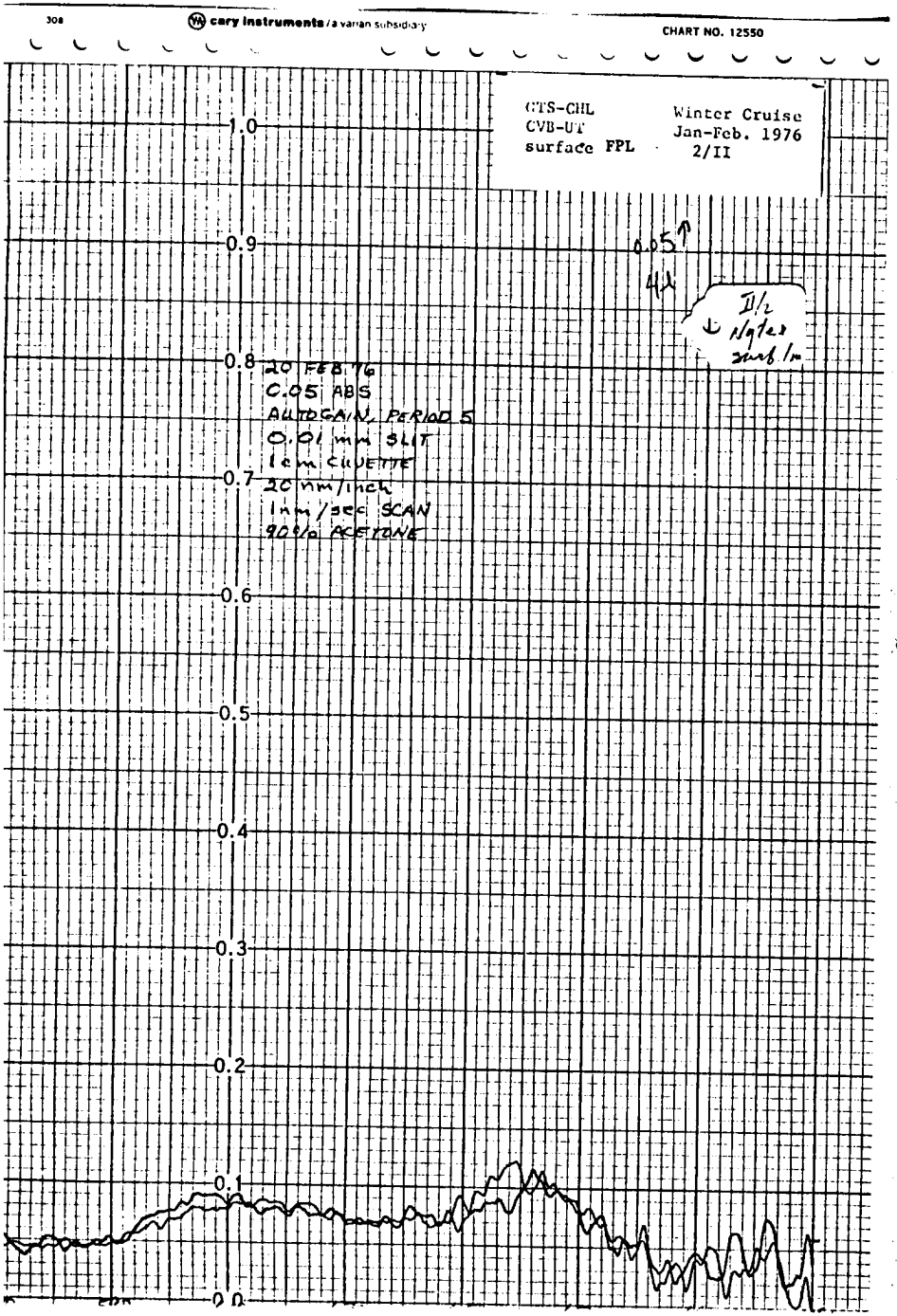

2-24-76
GEN-CHL
CVB-UT
NAN-surface
Winter
Feb. 1976
3/II
24 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
0.5-1 nm/sec SCAN
90% ACETONE
II/3
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
610
630
650
670

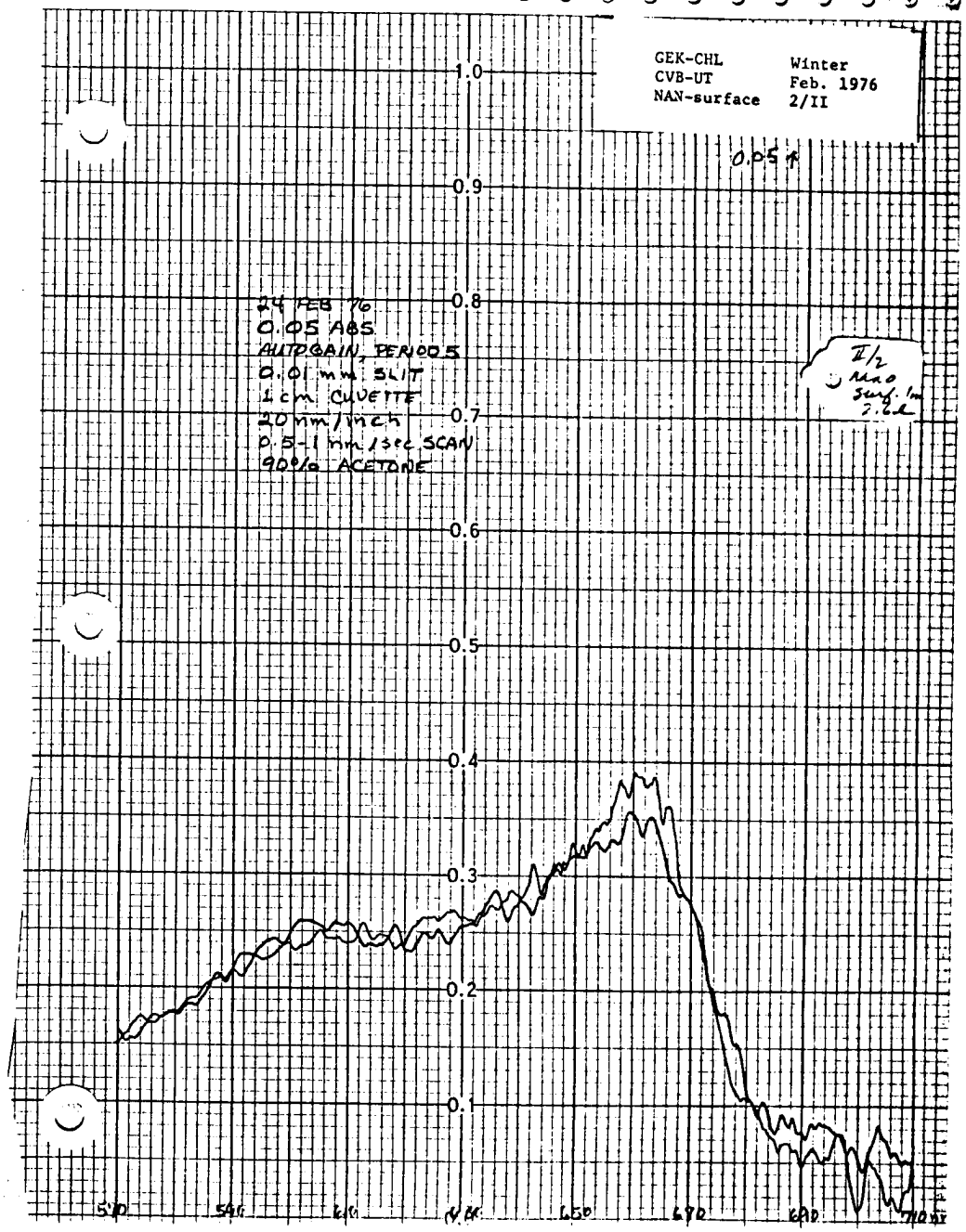

Winter Cruise
Jan-Feb. 1976
FPL 2/II
0.05↑
20 FEB 76
0.05 ABS
AUTO GAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 mm/inch
1 nm/sec SCAN
90% ACETONE
2/II 45m Nyter Chla
42
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0

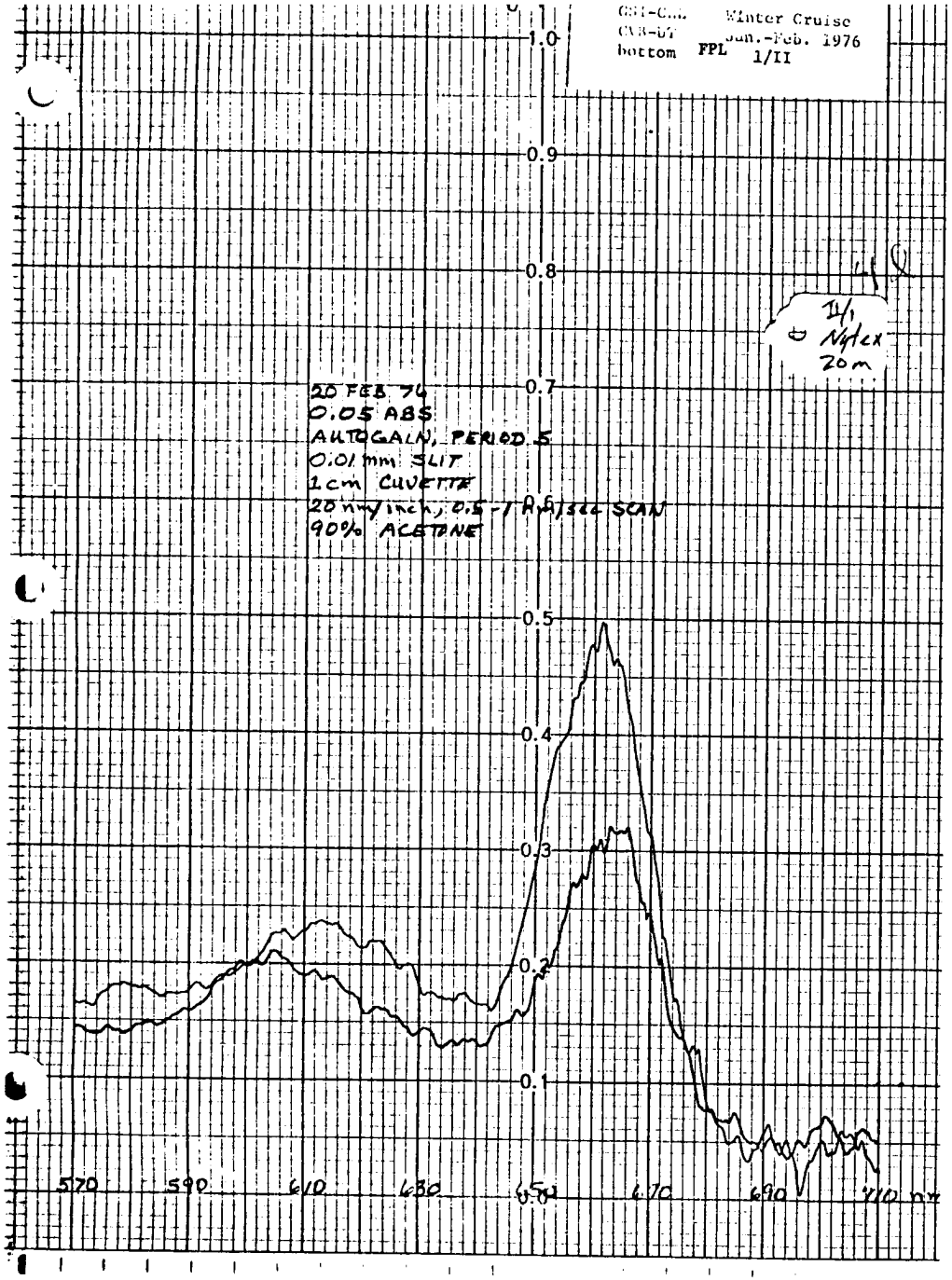

GEM-CHL Winter
CVB-UT Feb. 1976
NAN-bottom 2/II
24 FEB 76
0.05 ABS
AUTO GAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 mm/inch
0.5-1 nm/sec SCAN
90% ACETONE
2/II 45m Nyter Chla
2.50
0.05↑
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
540
560
580
600
620
640
660
680
700
WAVELENGTH

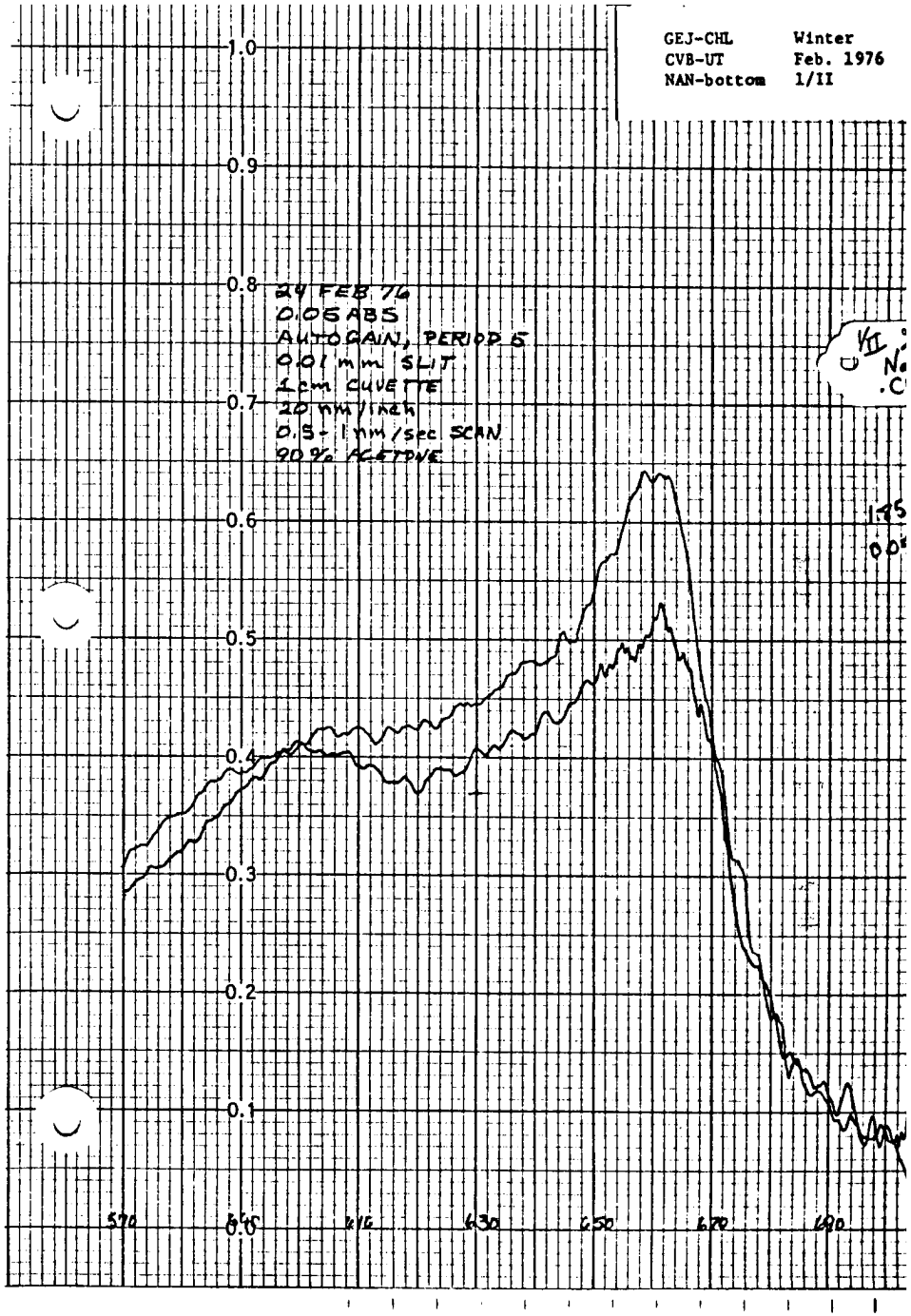

GTX-CHL
CVB-UT
1/2 p.z. FPL
Winter Cruise
Jan-Feb. 1976
2/II
0.05↑
20 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710 nm

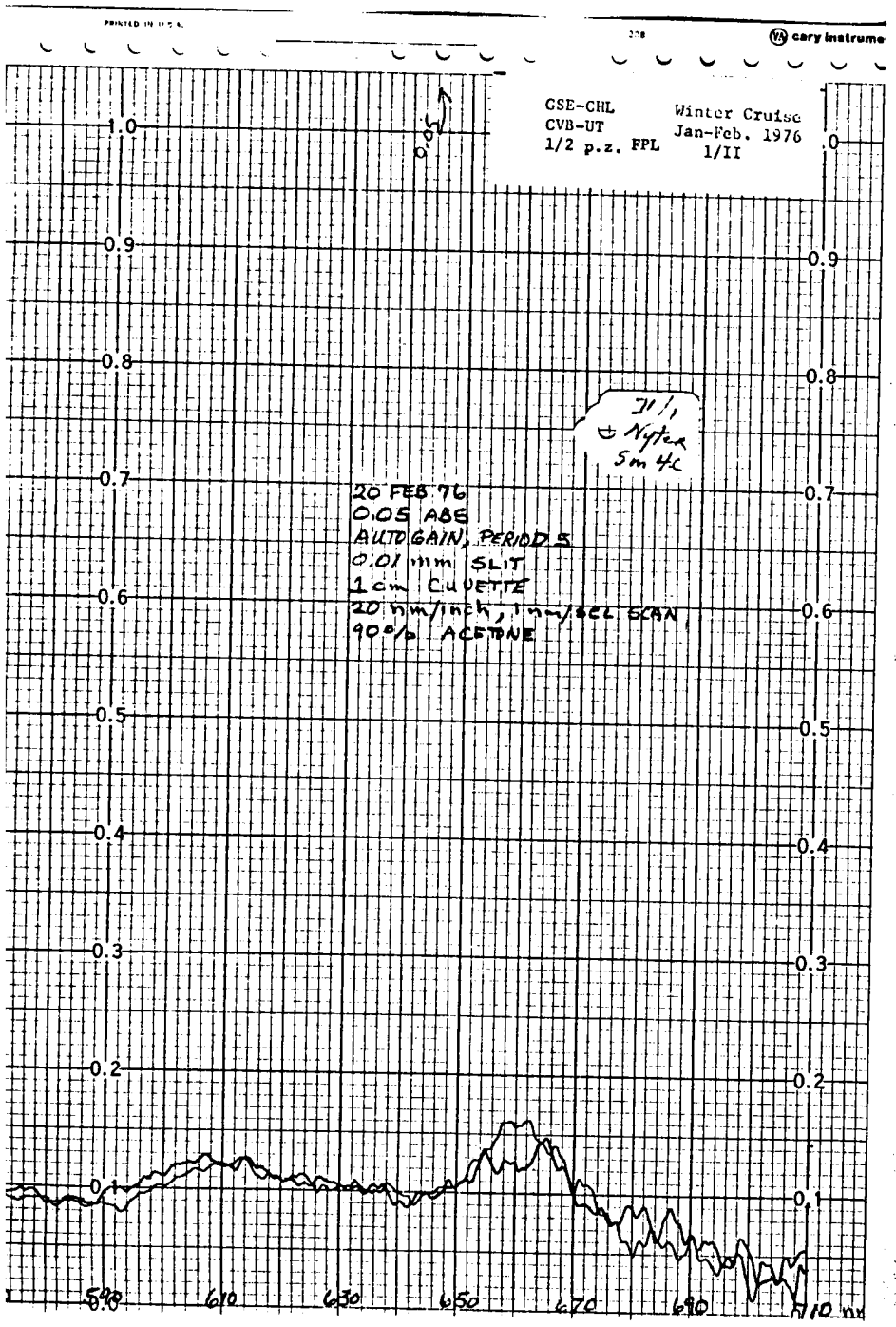

GEL-CHL
CVB-UT
NAN-1/2 p.z.
Winter
Feb. 1976
2/II
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
24 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
0.5-1 nm/sec SCAN
90% ACETONE
2.659
0.05↑
ACETONE/ACETONE
570
590
610
630
650
670

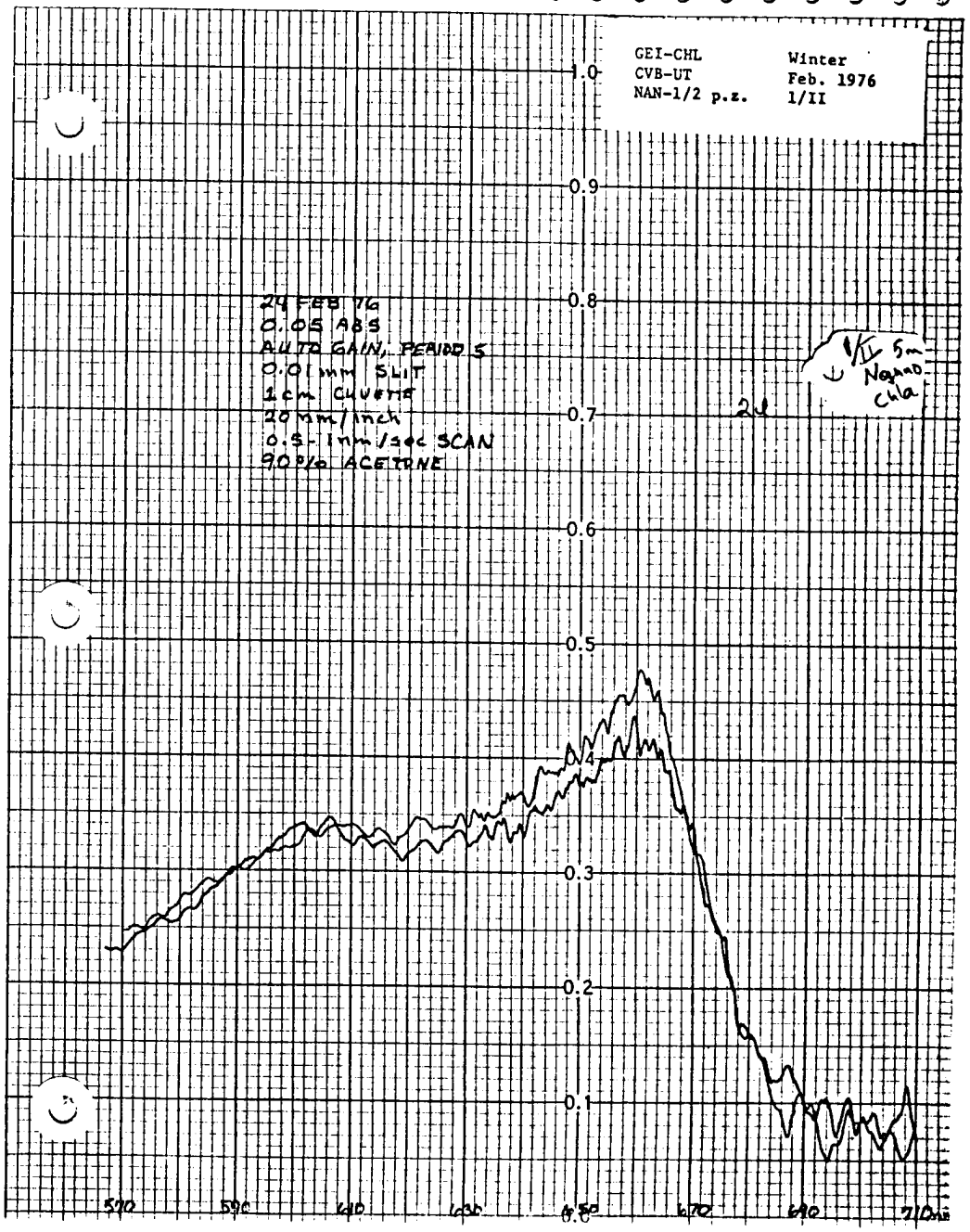

GTS-CHL
CVB-UT
surface FPL
Winter Cruise
Jan-Feb. 1976
2/II
0.05↑
20 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1cm CUVETTE
20nm/inch
1nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0

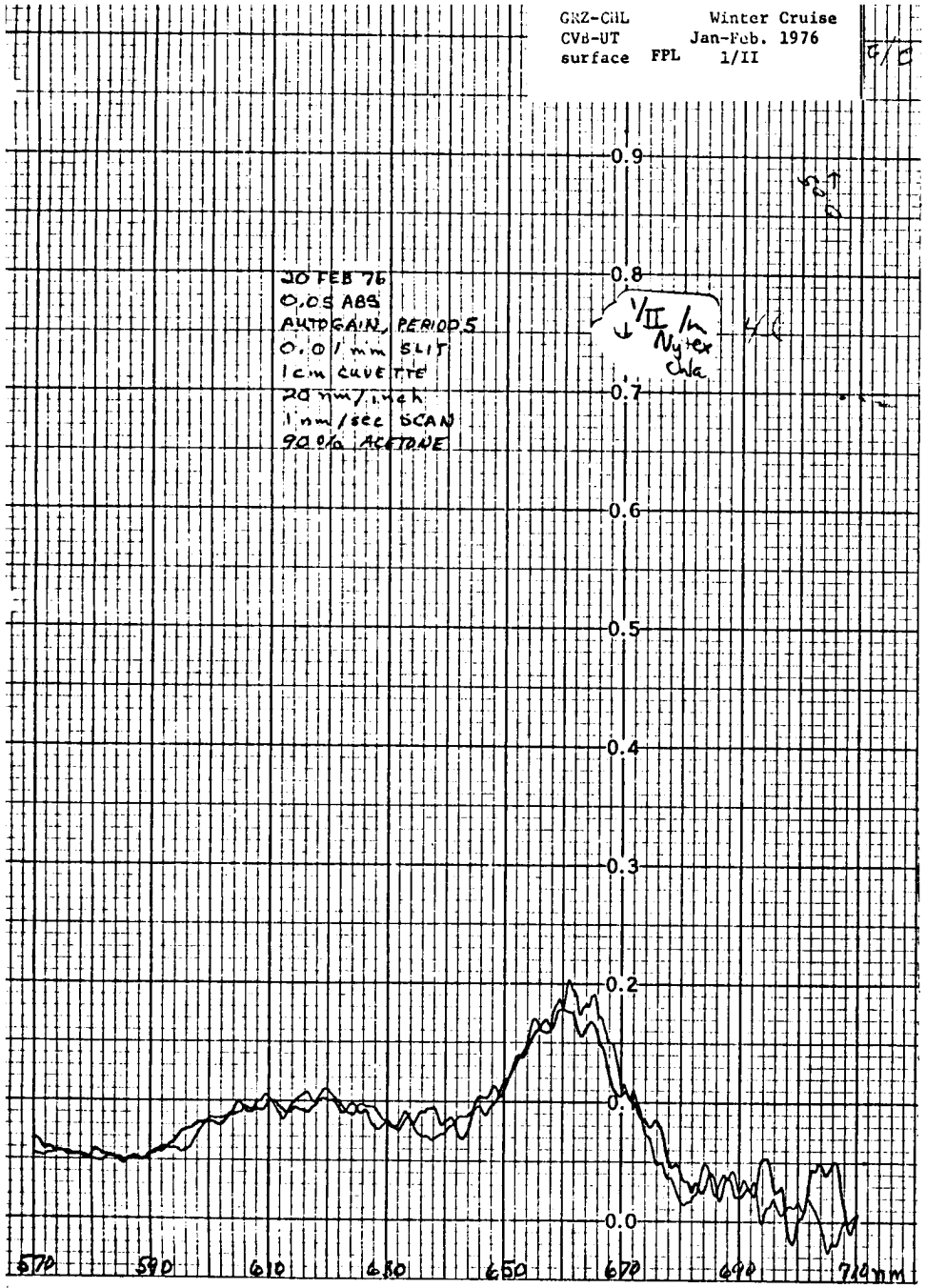

GEK-CHL
CVB-UT
NAN-surface
Winter
Feb. 1976
2/II
0.05↑
24 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1cm CUVETTE
20nm/inch
0.5-1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1


GEJ-CHL Winter Cruise
CVB-UT Jan.-Feb. 1976
bottom FPL 1/II
II/1
Nylex
20m
20 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch, 0.5-1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710 nm


GEJ-CHL Winter
CVB-UT Feb. 1976
NAN-bottom 1/II
24 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
0.5-1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
630
650
670
690


GSE-CHL
CVB-UT
1/2 p.z. FPL
Winter Cruise
Jan-Feb. 1976
1/II
0.05
20 FEB 76
0.05 ABS
AUTO GAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch, 1 nm/sec SCAN
90% ACETONE
1/II
Nyfer
5m 4c
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
590
610
630
650
670
690
710 nm


GEI-CHL
CVB-UT
NAN-1/2 p.z.
Winter
Feb. 1976
1/II
24 FEB 76
0.05 ABS
AUTO GAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 mm/inch
0.5 - 1 nm/sec SCAN
90% ACETONE
1/II 5m
Nano
Chla
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710 nm


GRZ-CHL Winter Cruise
CVB-UT Jan-Feb. 1976
surface FPL 1/II
30 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1/II /m Nyter Chla
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710nm

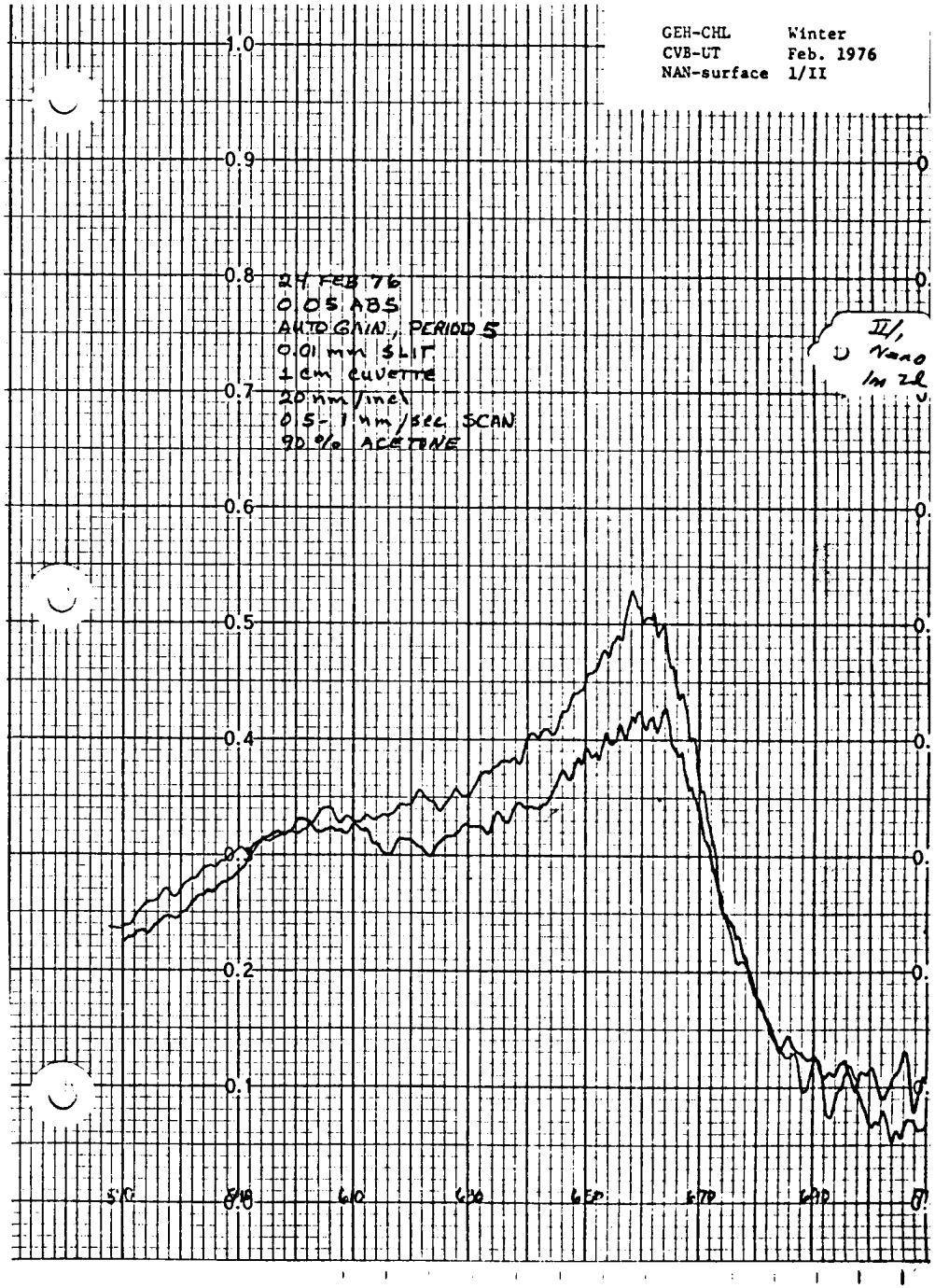

GEH-CHL Winter
CVB-UT Feb. 1976
NAN-surface 1/II
24 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
0.5-1 nm/sec SCAN
90% ACETONE
III/ Nano /m Chl
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0

CHART NO. 12550 PRINTED IN U.S.A. 308

GQQ-CHL Winter Cruise
CVB-UT Jan.-Feb. 1976
bottom FPL 3/I

3/3 ↓ Niton 1.5m

11 FEB 76
0.05 ABS
AUTO GAIN, PERIOD 5
SLIT 0.01 mm
1cm CUVETTE
20 nm/inch 1nm/sec SCAN
90% ACETONE

1.0 0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.2 0.1

610 630 650 670 690 710nm

cary instruments / a varian subsidiary

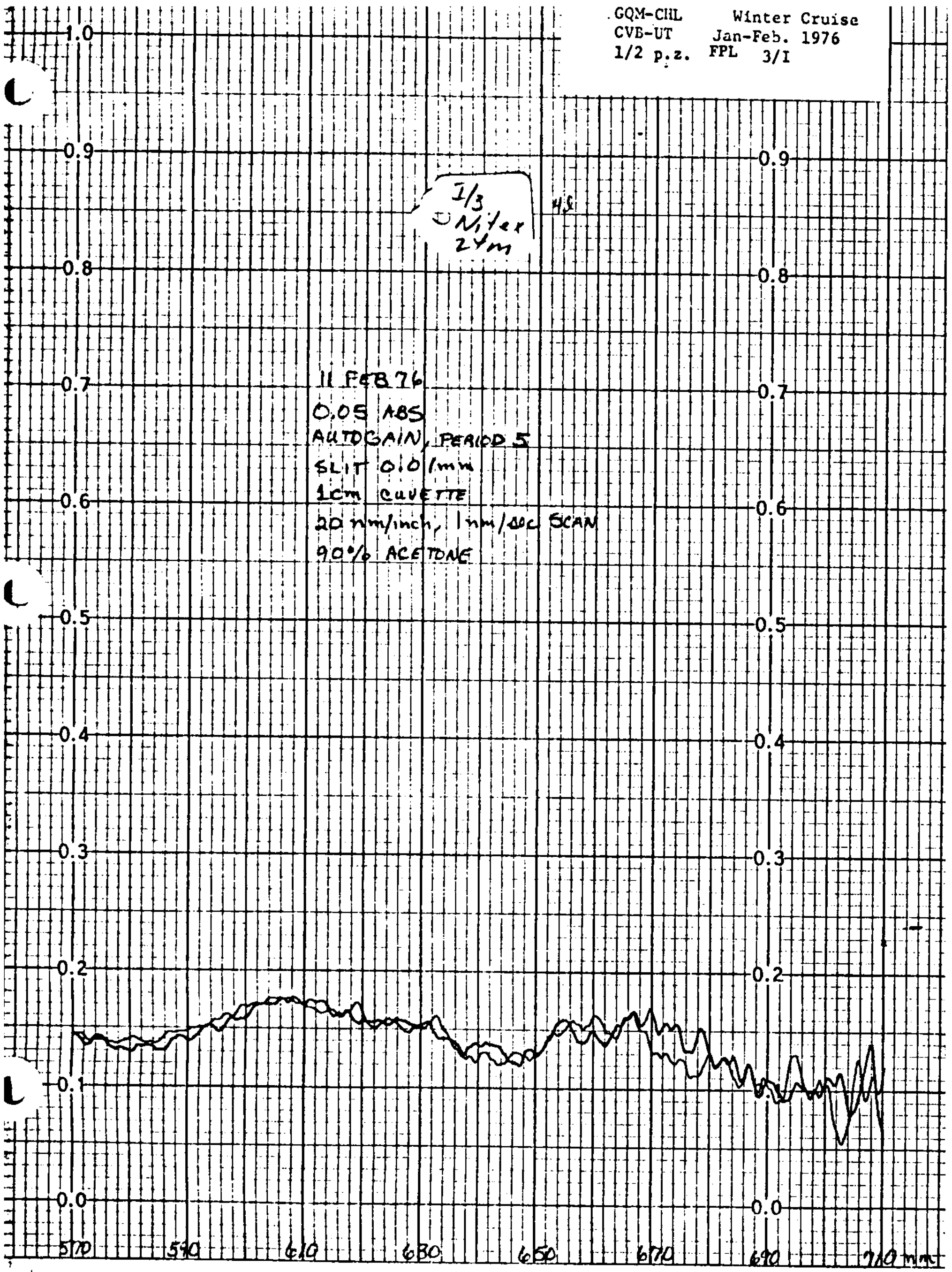
GEG-CHL Winter
CVB-UT Feb. 1976
NAN-Bottom 3/I

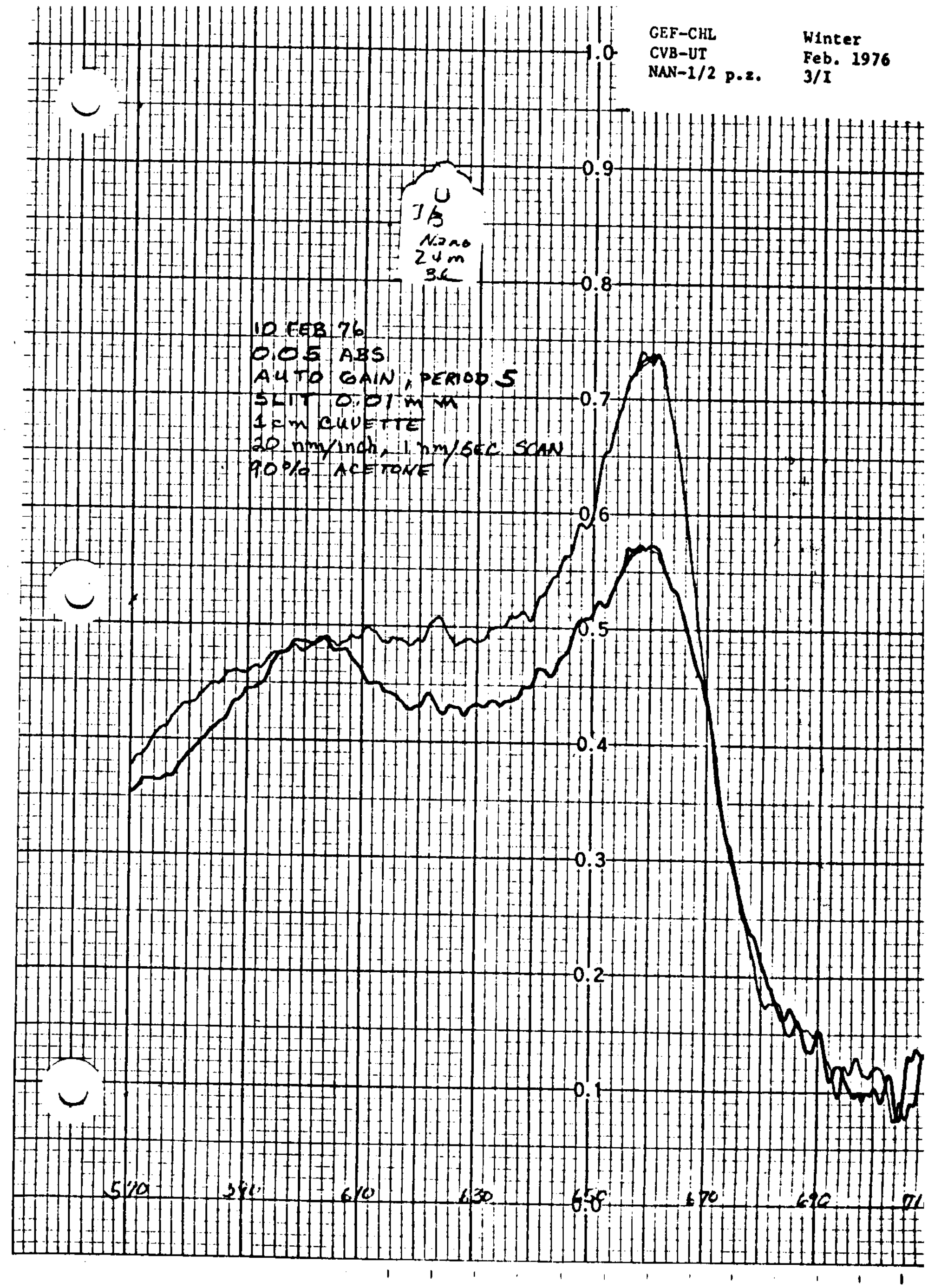
3/I 11.5m Nano Chla

10 FEB 76
0.05 ABS
AUTO GAIN, PERIOD 5
SLIT 0.01mm
1 cm CUVETTE
20 nm/inch, 1 nm/sec SCAN
90% ACETONE

1.0 0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.2 0.1

570 590 610 630 650 670 690 710


GQM-CHL
CVB-UT
1/2 p.z. FPL 3/I
Winter Cruise
Jan-Feb. 1976
1/3
Nitex
24m
11 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
SLIT 0.01mm
1cm CUVETTE
20 nm/inch, 1nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 mm


GEF-CHL
CVB-UT
NAN-1/2 p.z.
Winter
Feb. 1976
3/I
1/3
Nano
24m
10 FEB 76
0.05 ABS
AUTO GAIN, PERIOD 5
SLIT 0.01 mm
1cm CUVETTE
20 nm/inch, 1nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690

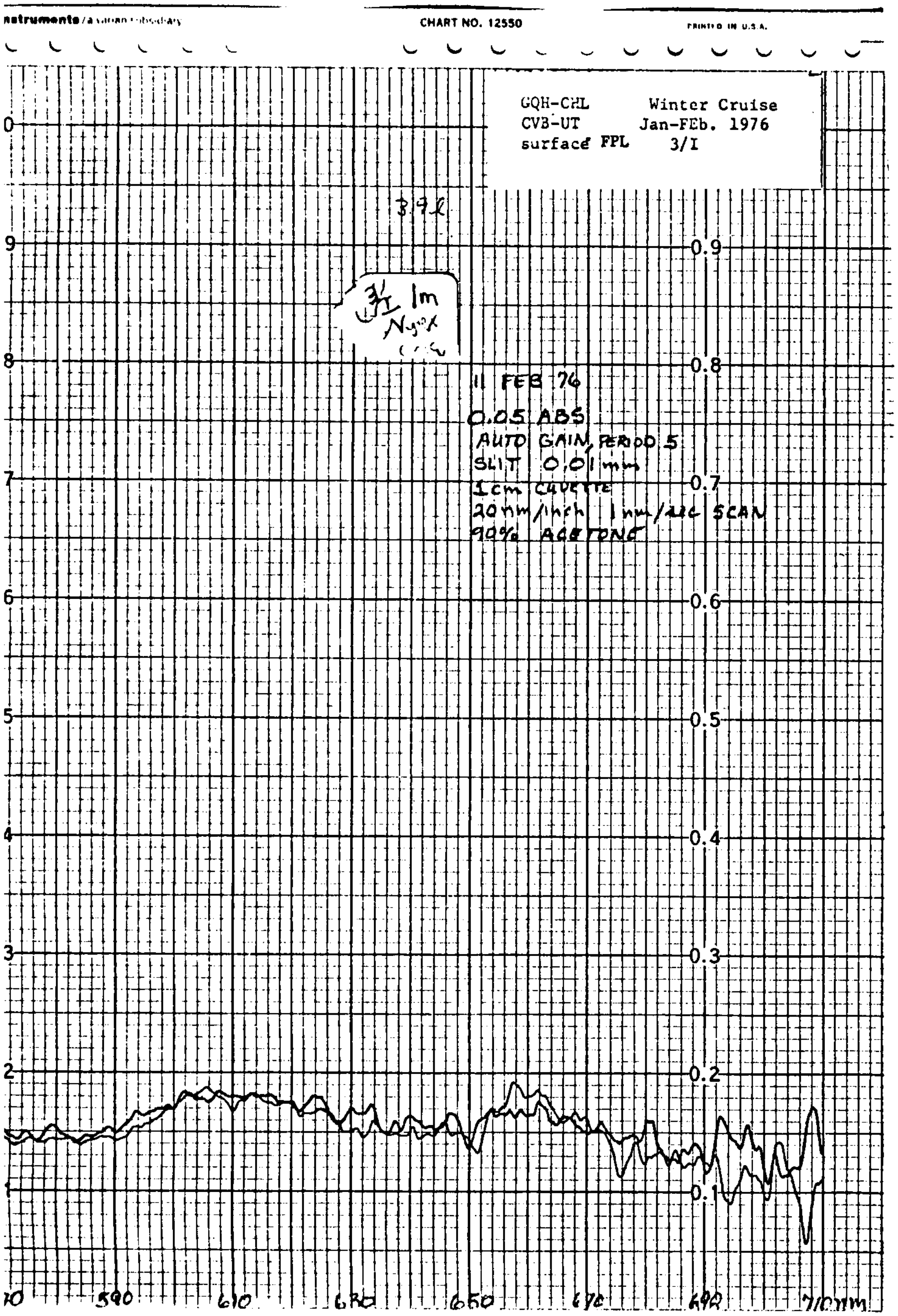


CHART NO. 12550
PRINTED IN U.S.A.
GQH-CHL Winter Cruise
CVB-UT Jan-FEb. 1976
surface FPL 3/I
11 FEB 76
0.05 ABS
AUTO GAIN, PERIOD 5
SLIT 0.01 mm
1cm CUVETTE
90% ACETONE
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
590
610
630
650
670
690
710 nm

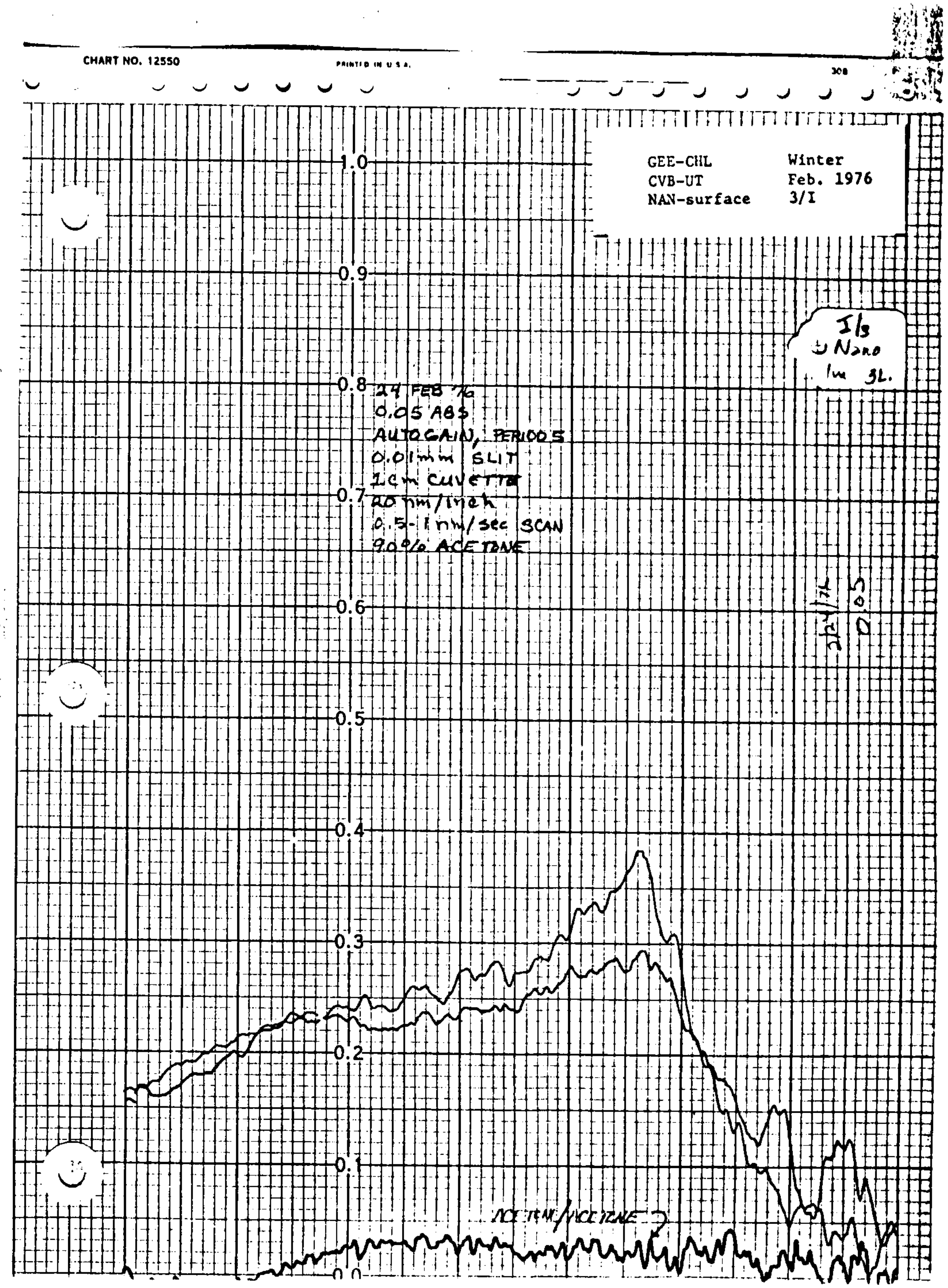
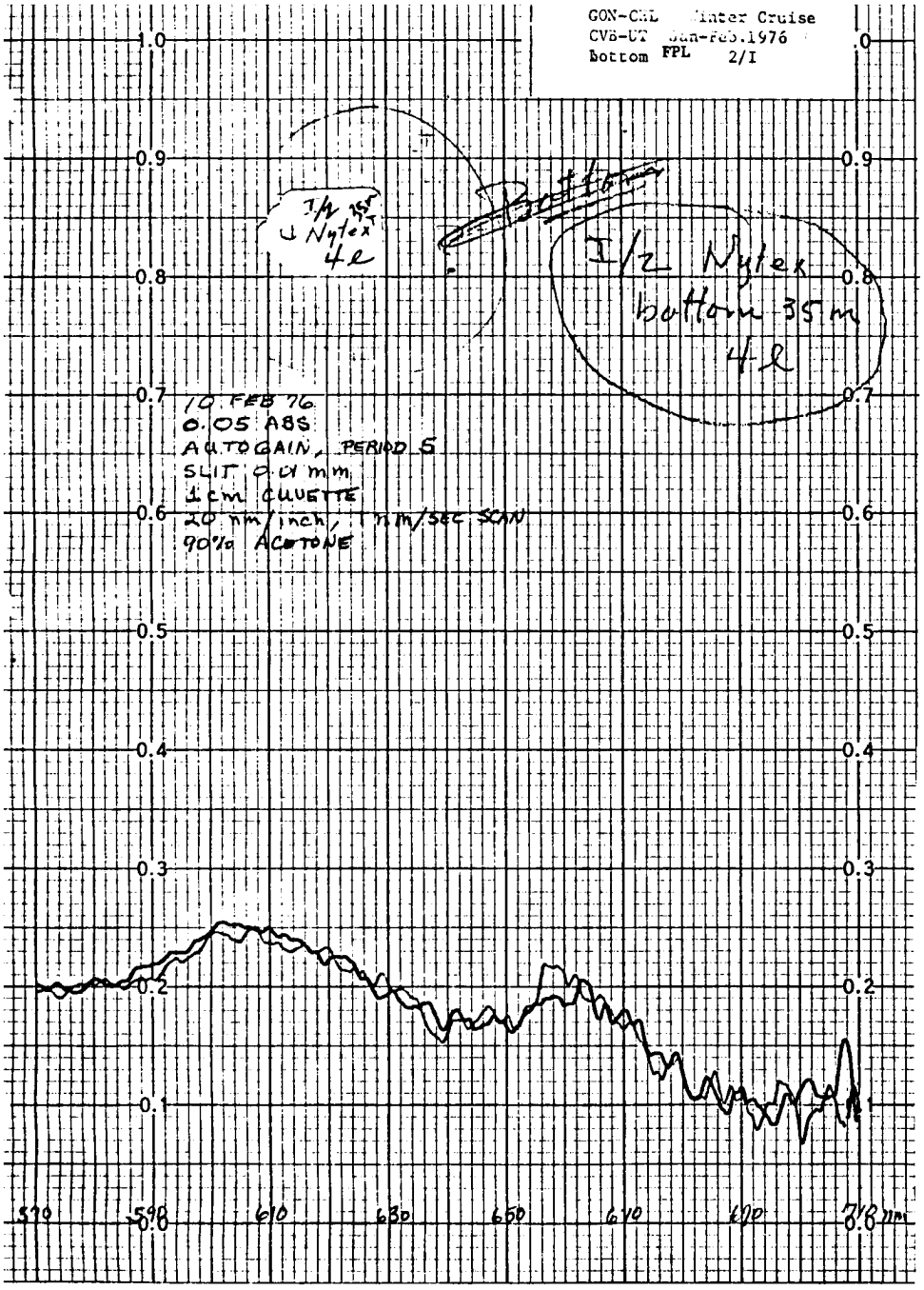
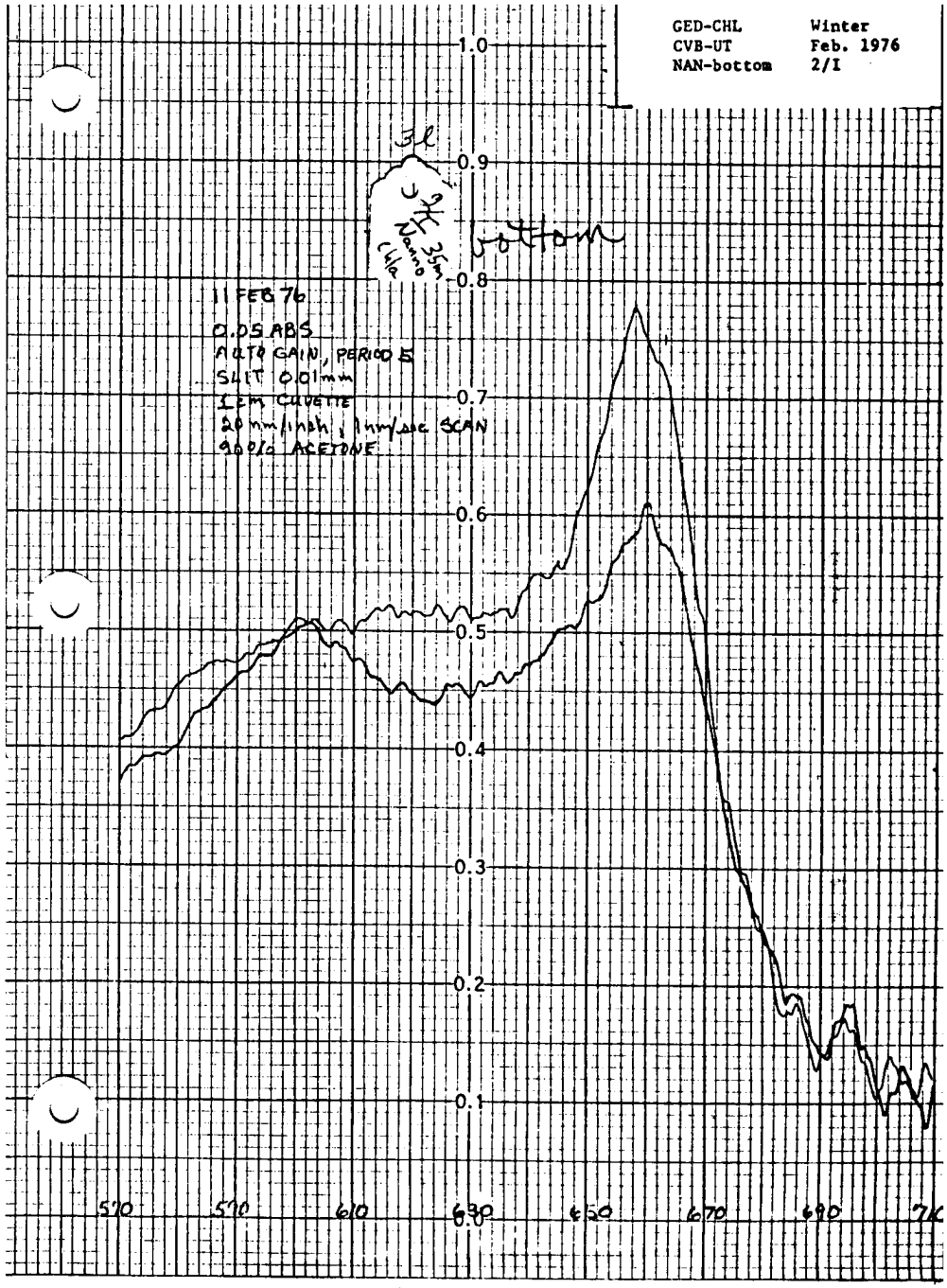


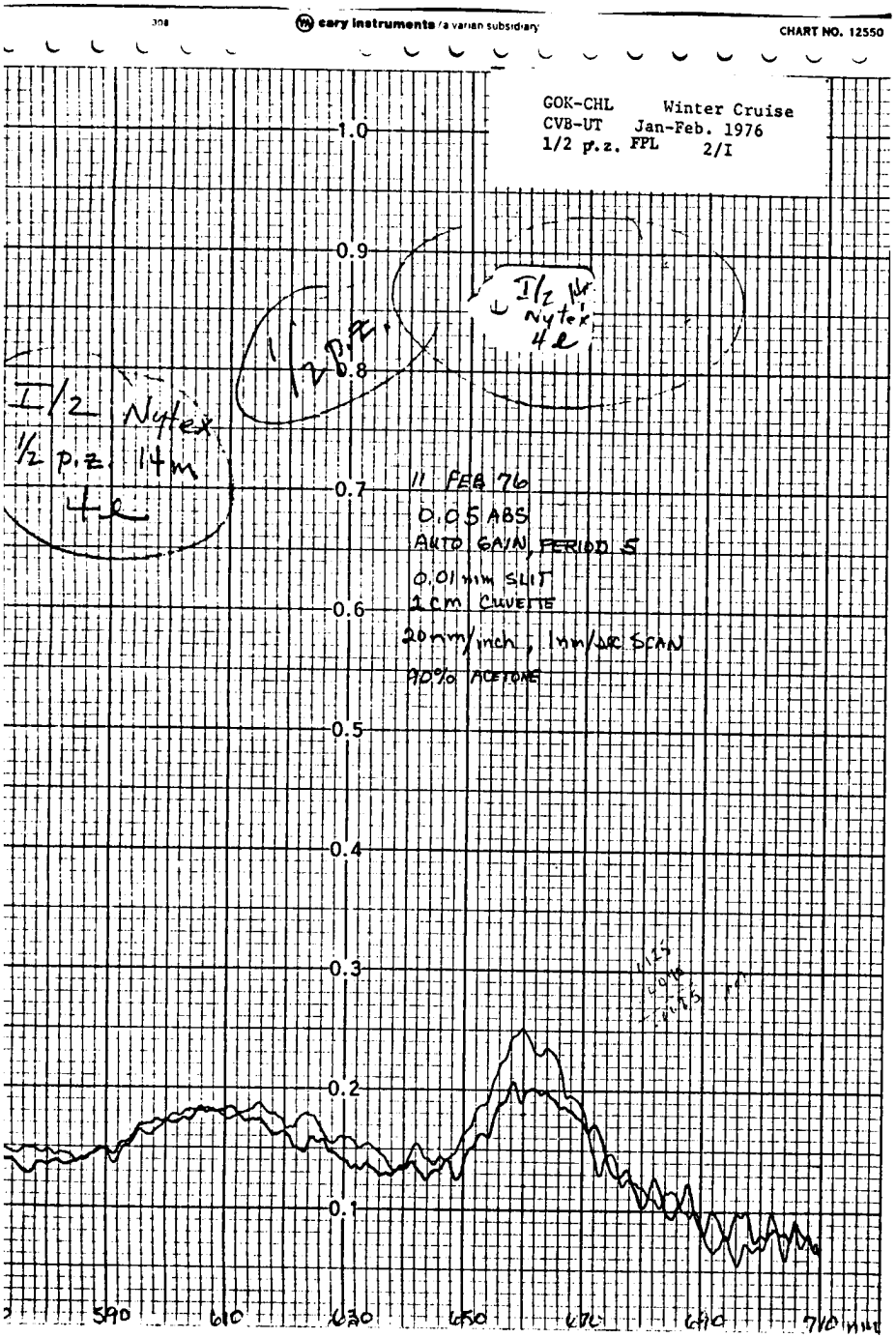
CHART NO. 12550
PRINTED IN U.S.A.
GEE-CHL Winter
CVB-UT Feb. 1976
NAN-surface 3/I
24 FEB 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
0.5-1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0

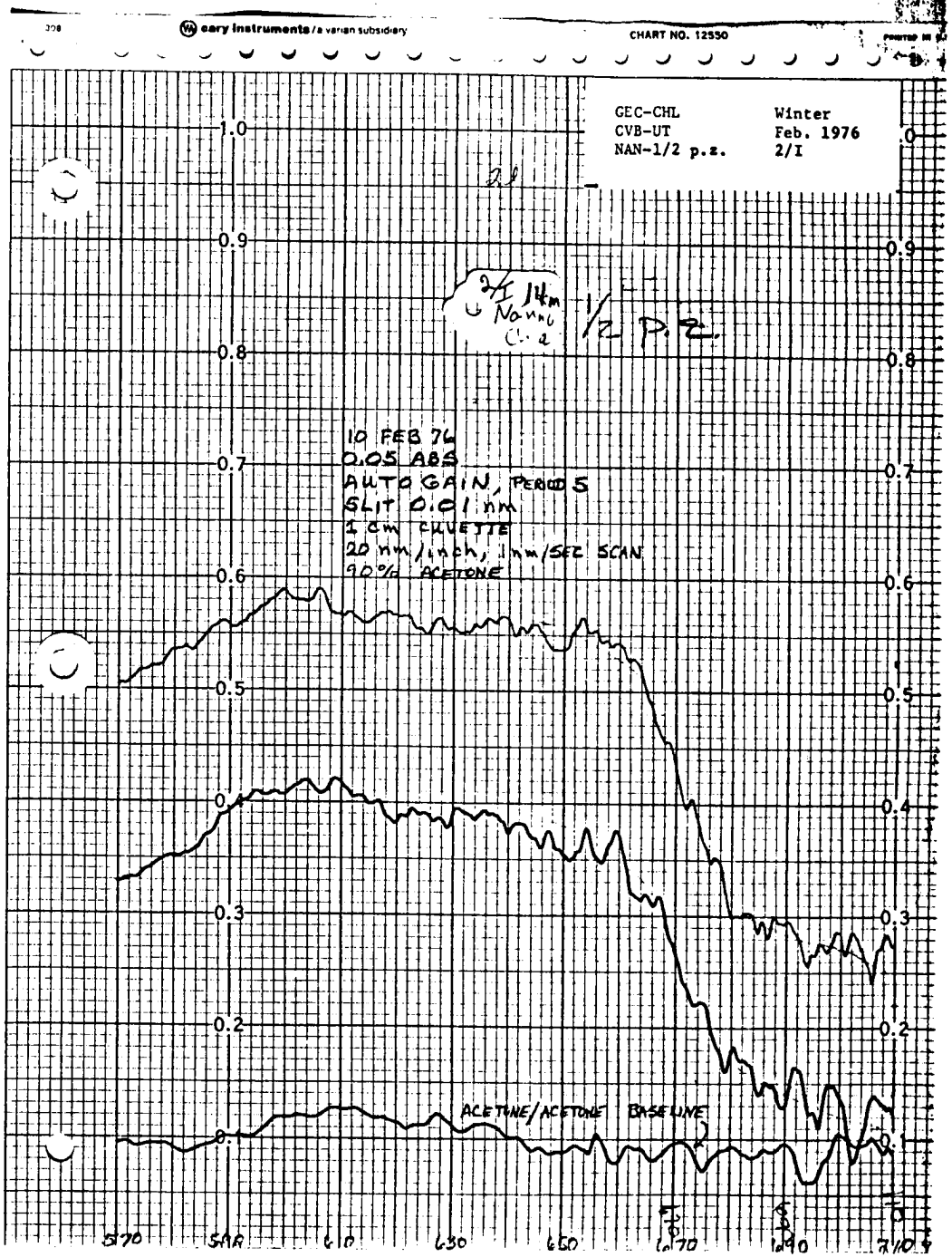
GON-CHL Winter Cruise
CVB-UT Jan-Feb.1976
Bottom FPL 2/I

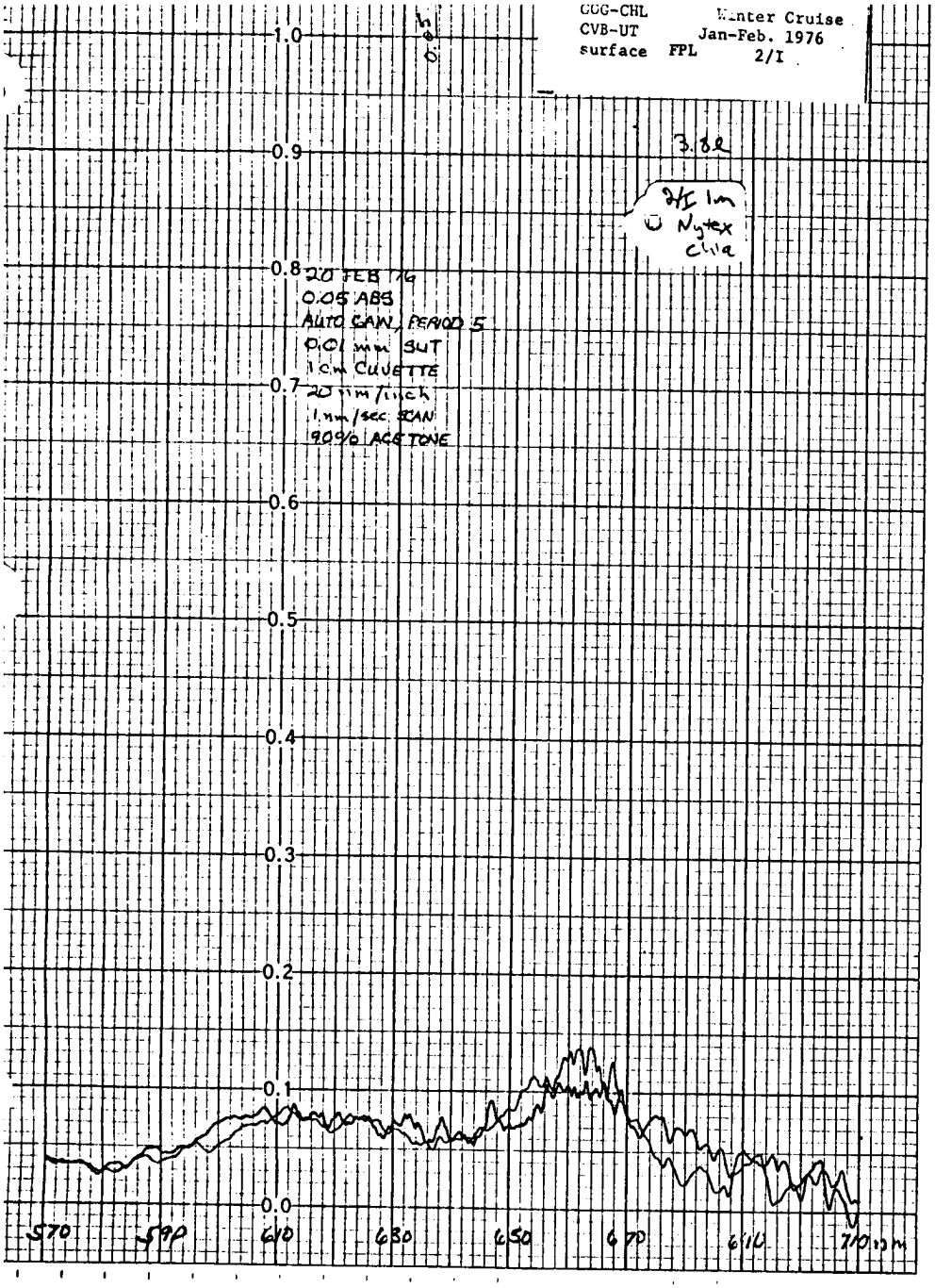


GED-CHL Winter
CVB-UT Feb. 1976
NAN-bottom 2/I




cary instruments / a varian subsidiary
CHART NO. 12550
GOK-CHL Winter Cruise
CVB-UT Jan-Feb. 1976
1/2 p.z. FPL 2/I
1/2 Nytex
1/2 p.z. 14m
4e
1/2 Nytex
4e
11 FEB 76
0.05 ABS
AUTO GAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch, 1nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
590
610
630
650
670
690
710 nm


cary instruments / a varian subsidiary
CHART NO. 12550
GEC-CHL Winter
CVB-UT Feb. 1976
NAN-1/2 p.z. 2/I
1/2 p.z.
10 FEB 76
0.05 ABS
AUTO GAIN, PERIOD 5
SLIT 0.01 nm
1 cm CUVETTE
20 nm/inch, 1nm/SEC SCAN
90% ACETONE
ACETONE/ACETONE BASELINE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710 nm


CGG-CHL
CVB-UT
surface
Winter Cruise
Jan-Feb. 1976
FPL 2/I
3.82
2/I 1m
Nytex
Chla
20 FEB 76
0.05 ABS
AUTO GAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 nm

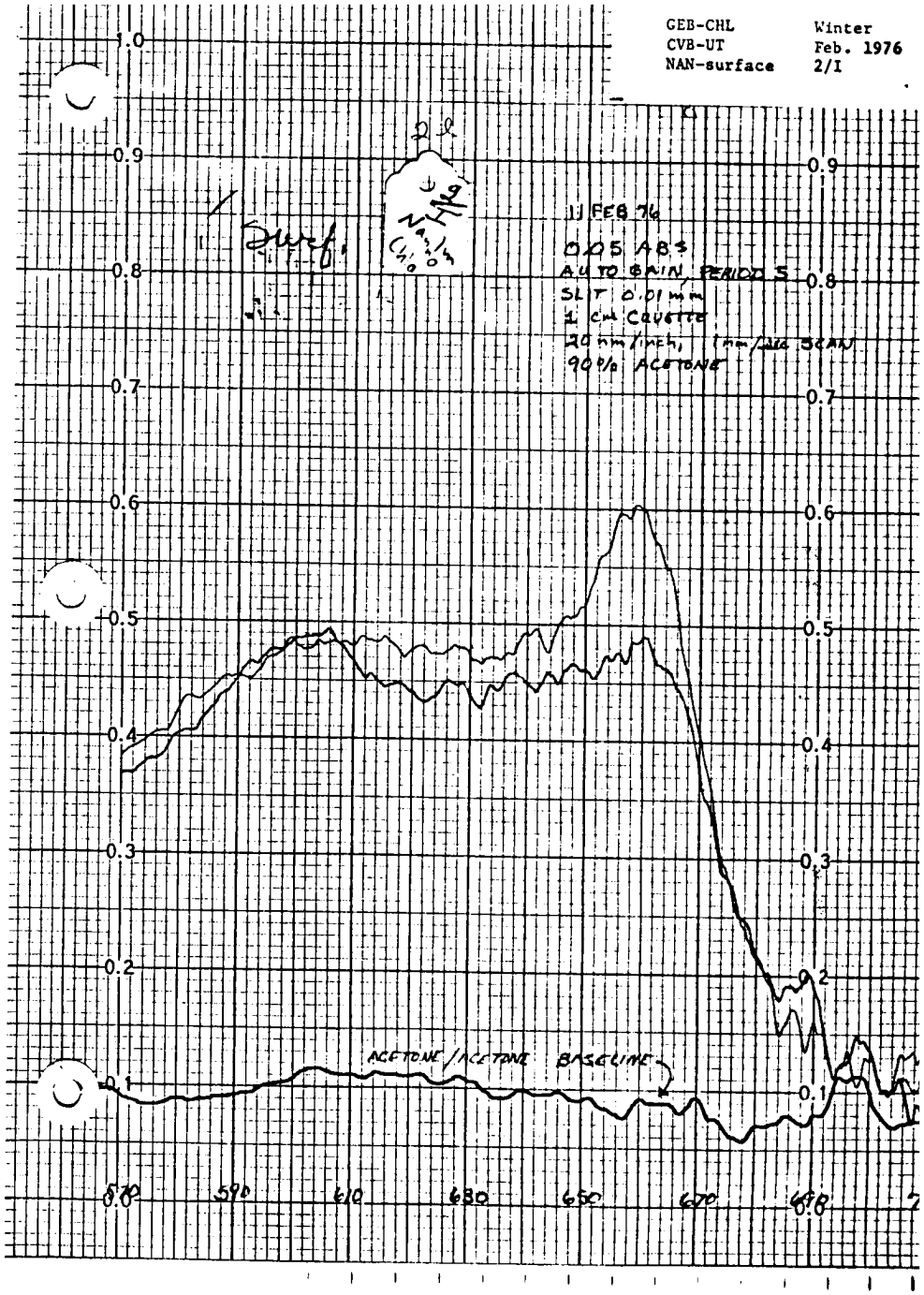

GEB-CHL
CVB-UT
NAN-surface
Winter
Feb. 1976
2/I
11 FEB 76
0.05 ABS
AUTO GAIN PERIOD 5
SLIT 0.01 mm
1 cm CUVETTE
20 nm/inch, 1 nm/sec SCAN
90% ACETONE
ACETONE/ACETONE BASELINE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690

CHART NO. 12550 PRINTED IN U.S.A. 308

GM7-CHL Winter Cruise
CVB-UT Jan. 1976
bottom .. FPL 1/I

4l

I/1 15m
Nytex

16 FEB 76
0.1 ABS
AUTO GAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
0.5-1.0 nm/SEC SCAN
90% ACETONE

1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

CHART NO. 12550 PRINTED IN U.S.A.

GEA-CHL Winter
CVB-UT Feb. 1976
NAN-Bottom 1/I

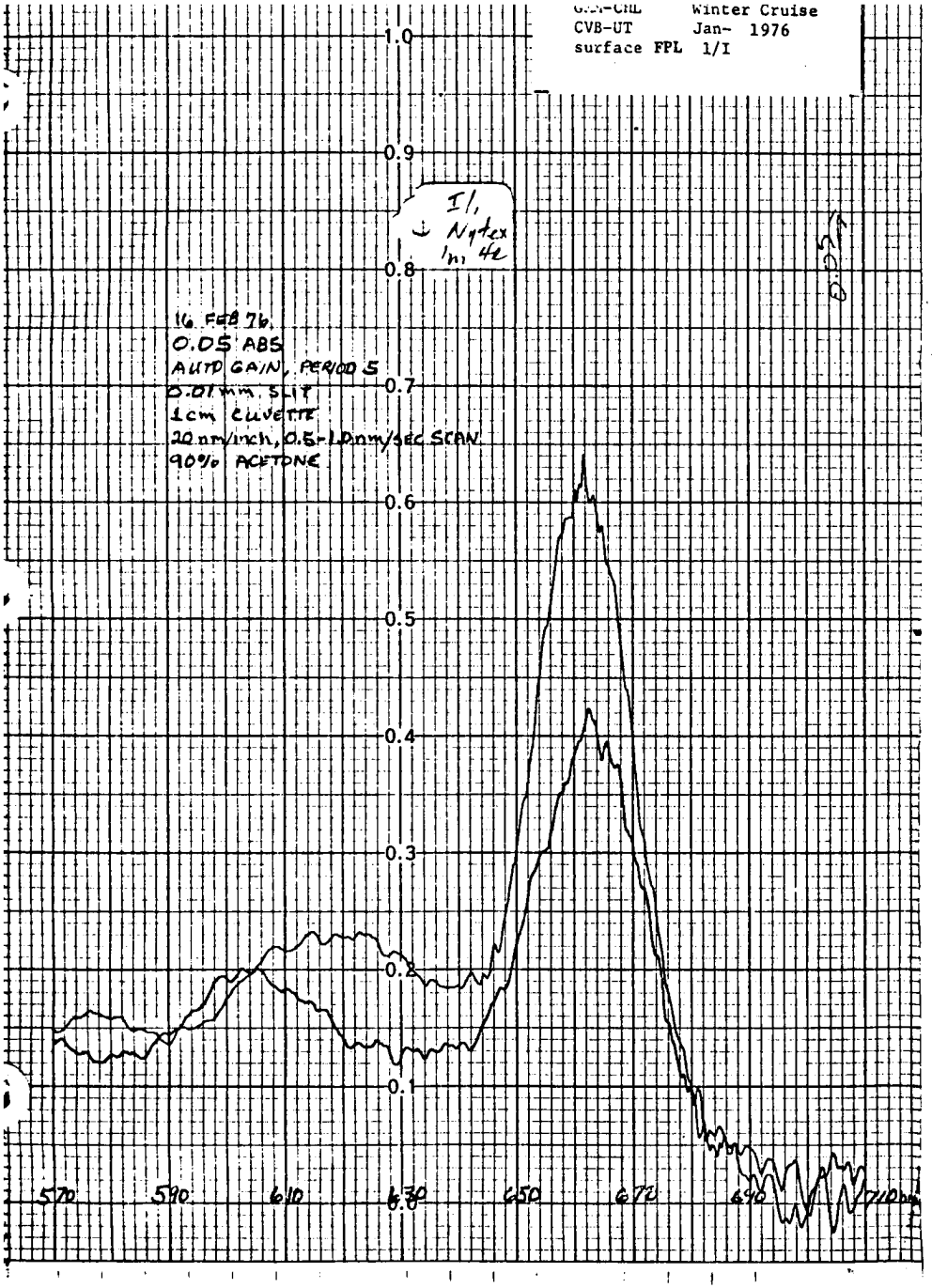
19l

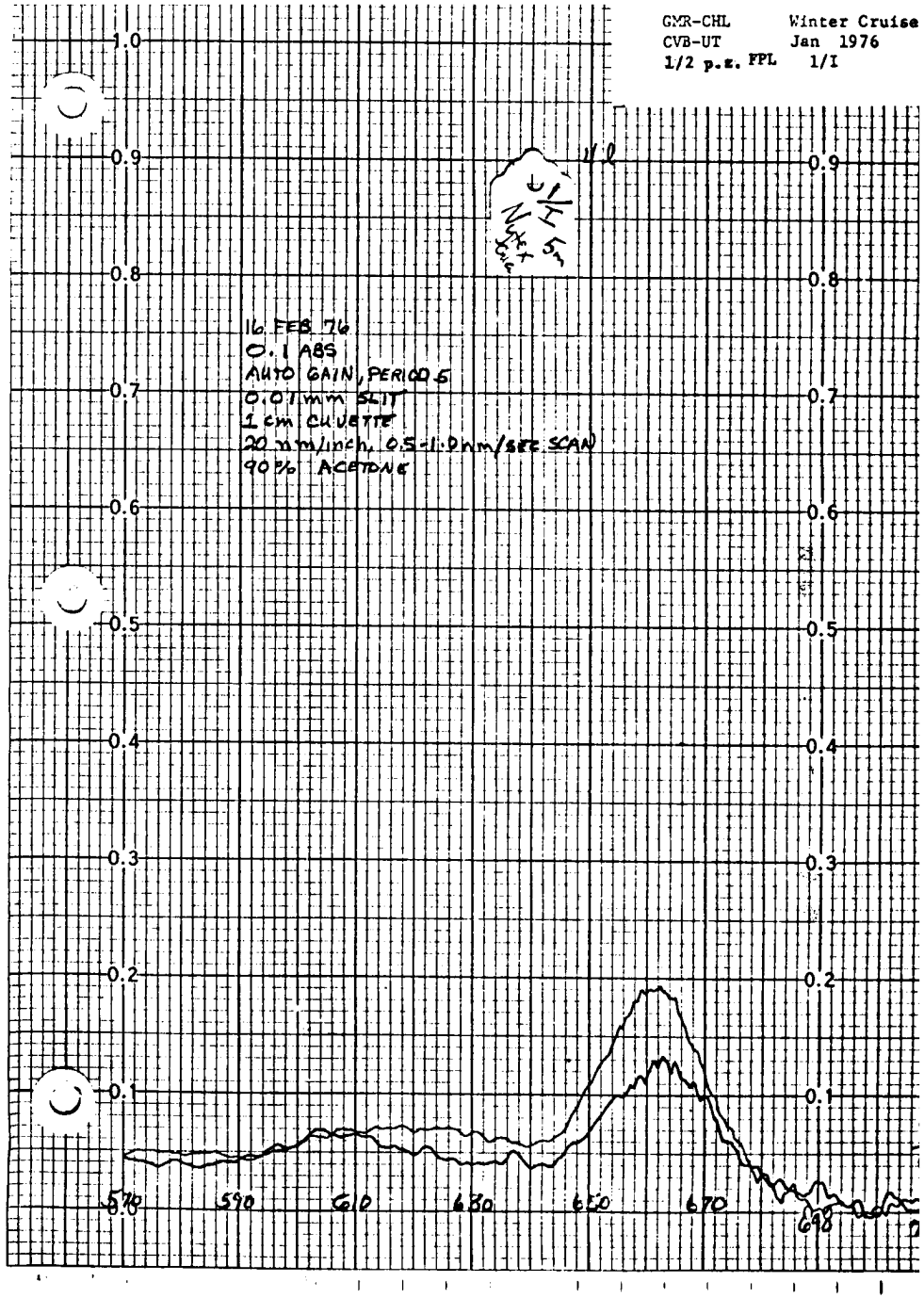
I/1 15m
Nano
Chla

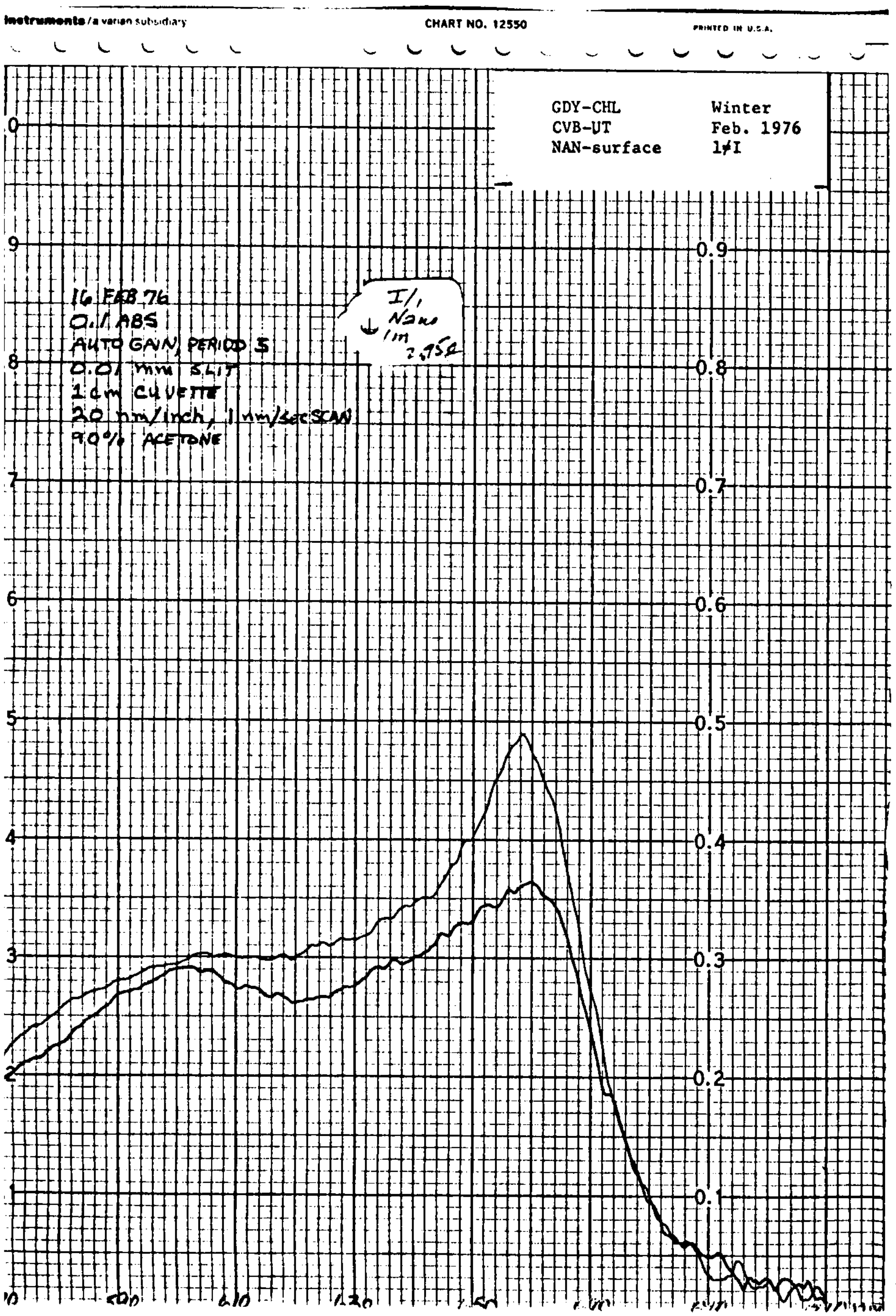
16 FEB 76
0.1 ABS
AUTO GAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch, 1 nm/SEC SCAN
90% ACETONE

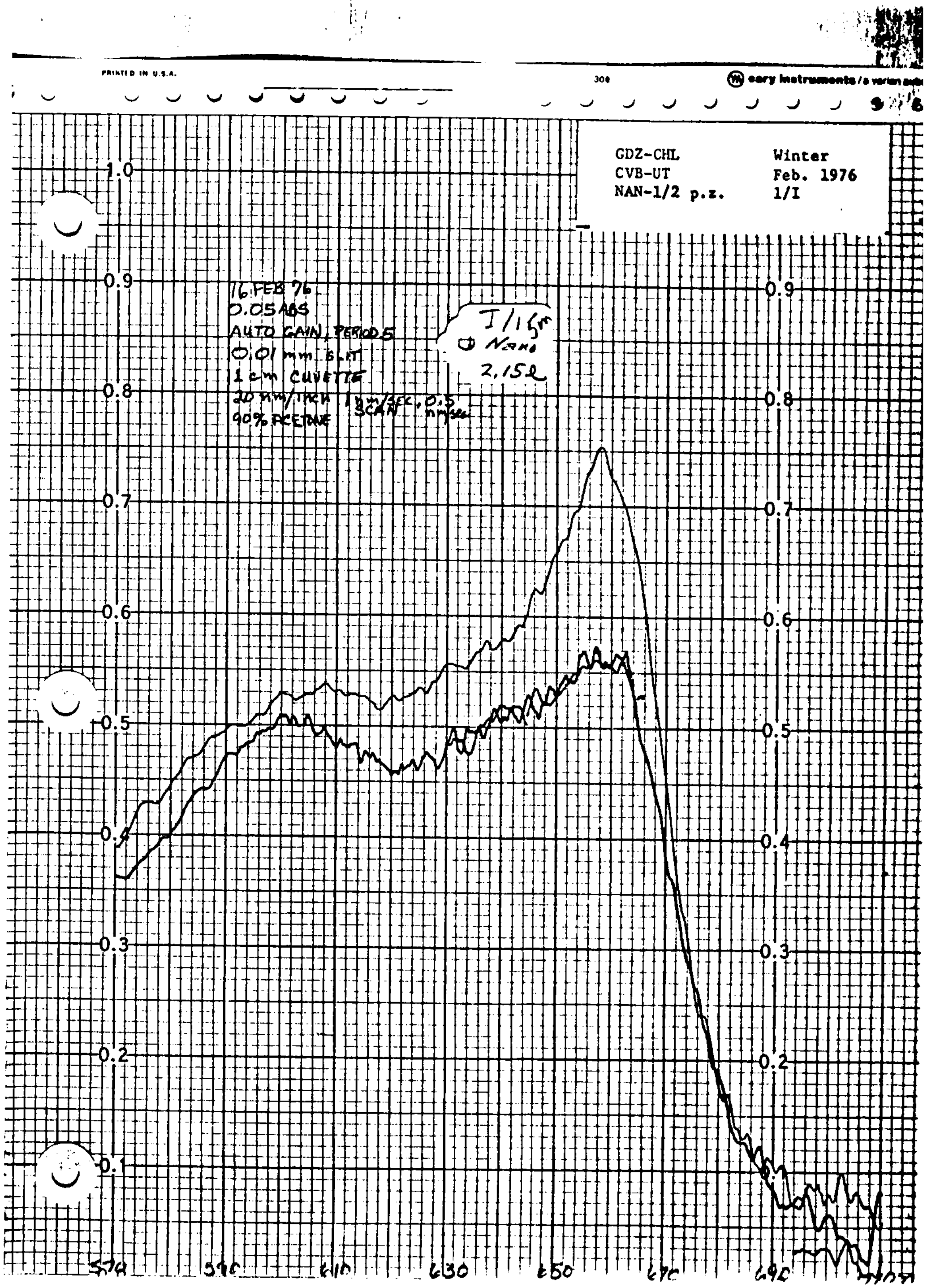
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

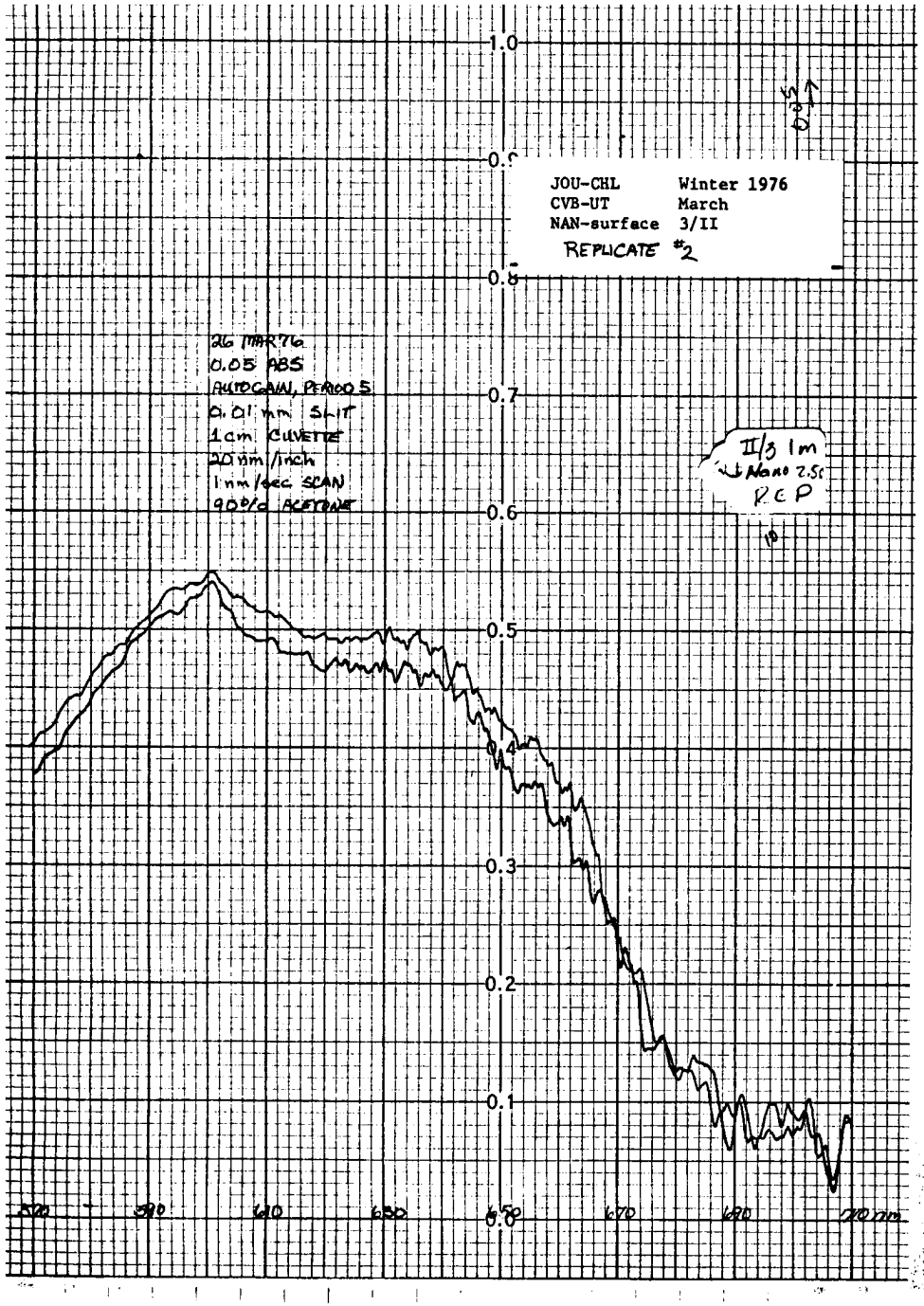
570 590 610 630 650 670 690 710

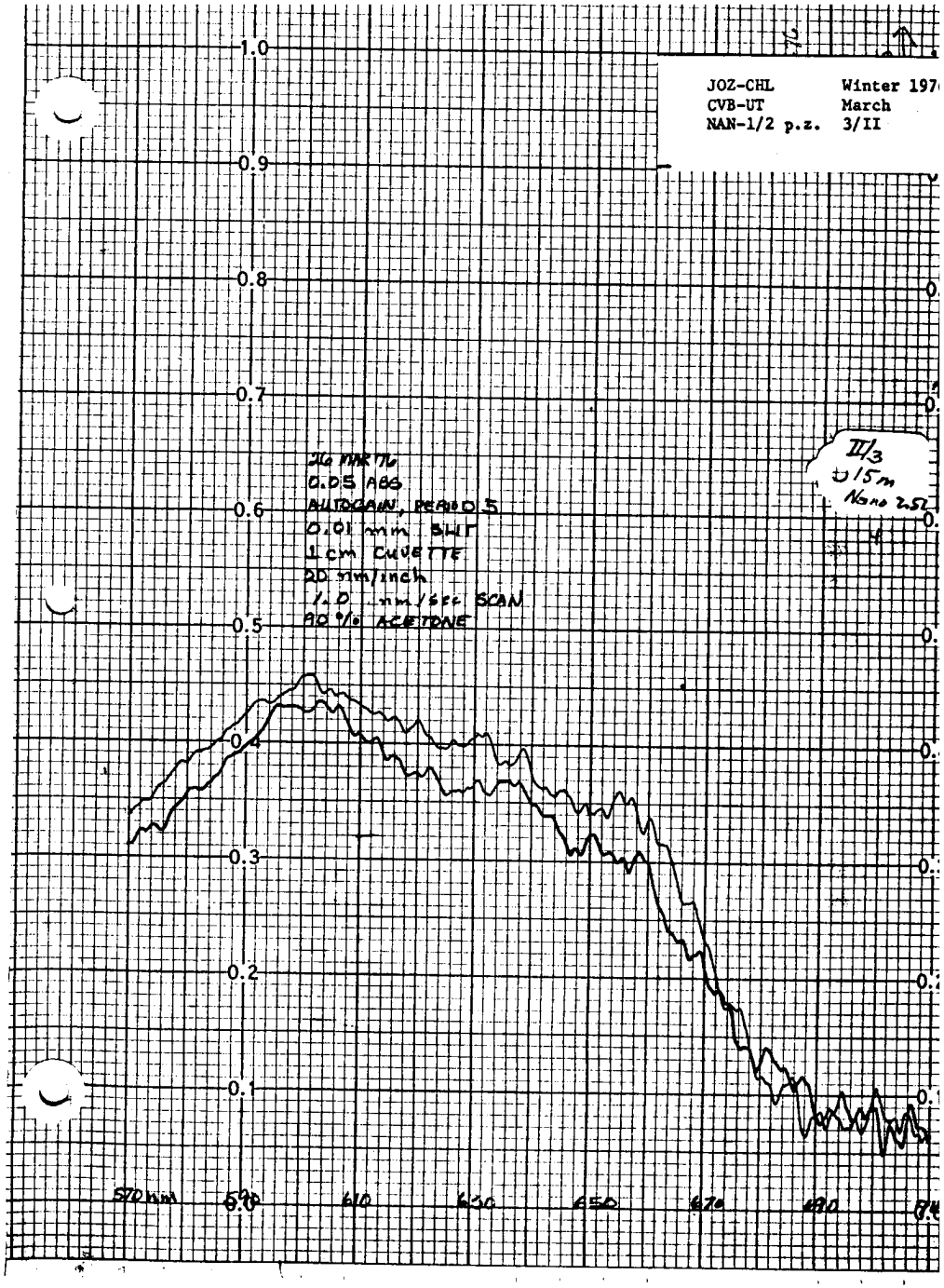

GMR-CHL Winter Cruise
CVB-UT Jan- 1976
surface FPL 1/I
I/, Nytex In, 4e
16 FEB 76.
0.05 ABS
AUTO GAIN, PERIOD 5
0.01mm SLIT
1cm CUVETTE
20 nm/inch, 0.5-1.0nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710nm

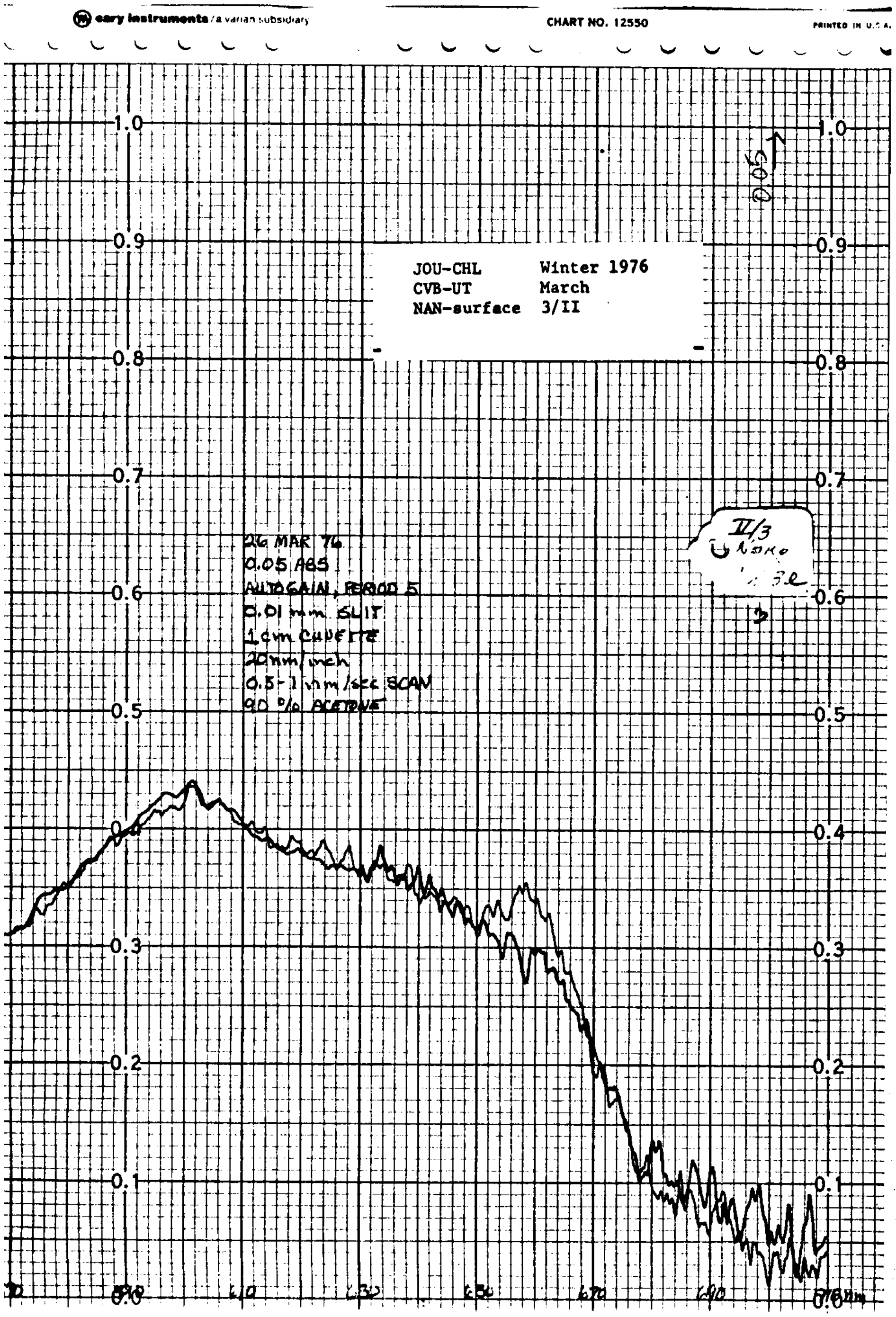

GMR-CHL Winter Cruise
CVB-UT Jan 1976
1/2 p.e. FPL 1/I
16 FEB 76
0.1 ABS
AUTO GAIN, PERIOD 5
0.01mm SLIT
1 cm CUVETTE
20 nm/inch, 0.5-1.0nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690


instruments / a varian subsidiary
CHART NO. 12550
PRINTED IN U.S.A.
GDY-CHL
CVB-UT
NAN-surface
Winter
Feb. 1976
1/I
16 FEB 76
0.1 ABS
AUTO GAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch, 1 nm/sec SCAN
90% ACETONE
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1


PRINTED IN U.S.A.
cary instruments / a varian
GDZ-CHL
CVB-UT
NAN-1/2 p.z.
Winter
Feb. 1976
1/I
16 FEB 76
0.05 ABS
AUTO GAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
90% ACETONE
2,15
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690


JOU-CHL Winter 1976
CVB-UT March
NAN-surface 3/II
REPLICATE #2
26 MAR 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
II/3 1m
Nano 2.5
R.C.P
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
500
590
610
630
650
670
690
700 nm


JOZ-CHL Winter 197
CVB-UT March
NAN-1/2 p.z. 3/II
26 MAR 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1.0 nm/sec SCAN
90 % ACETONE
II/3
1.5m
Nano 2.5
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570 nm
590
610
630
650
670
690



cary instruments / a varian subsidiary
CHART NO. 12550
PRINTED IN U.S.A.
JOU-CHL Winter 1976
CVB-UT March
NAN-surface 3/II
26 MAR 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
0.5-1 nm/sec SCAN
90 % ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

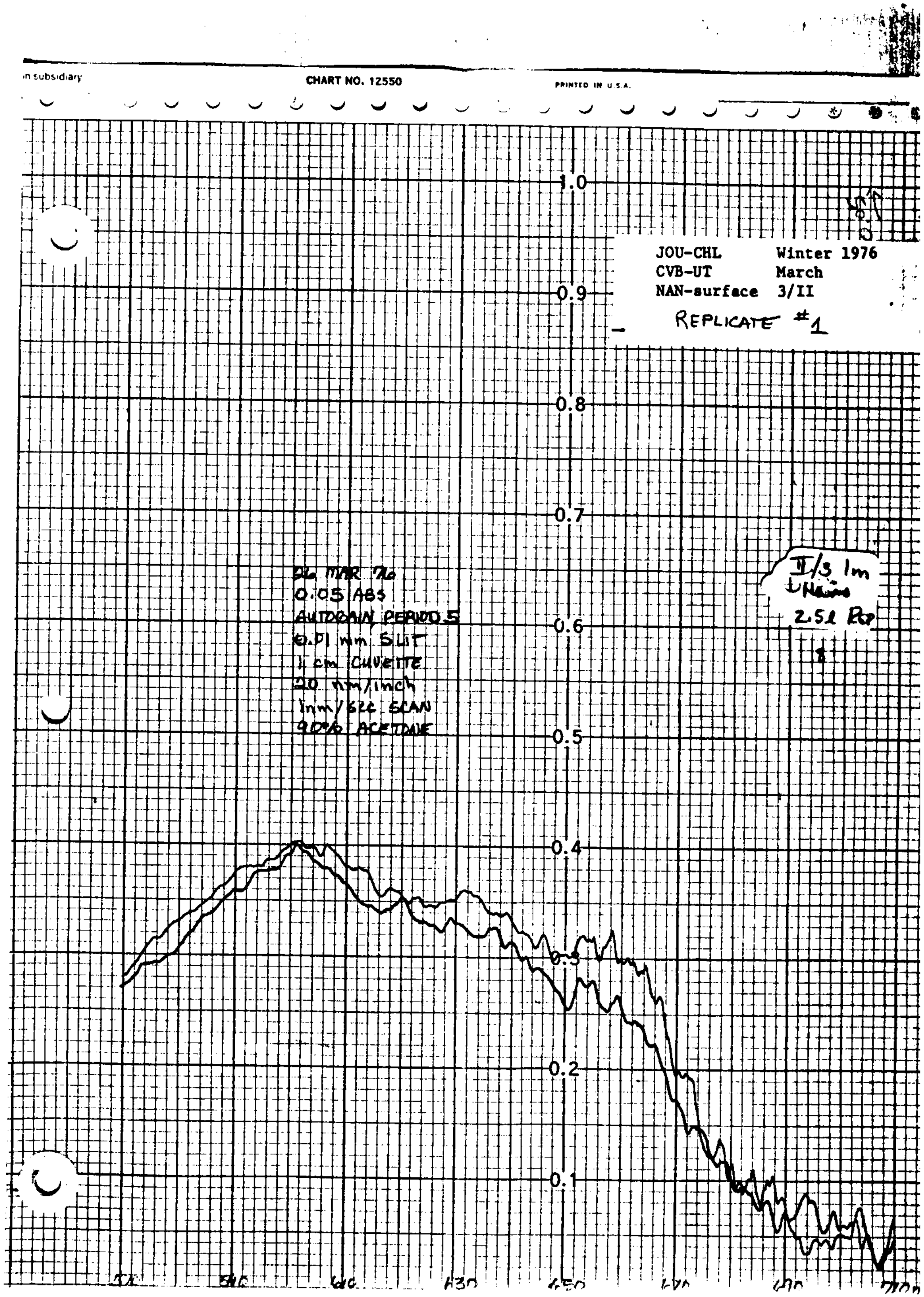
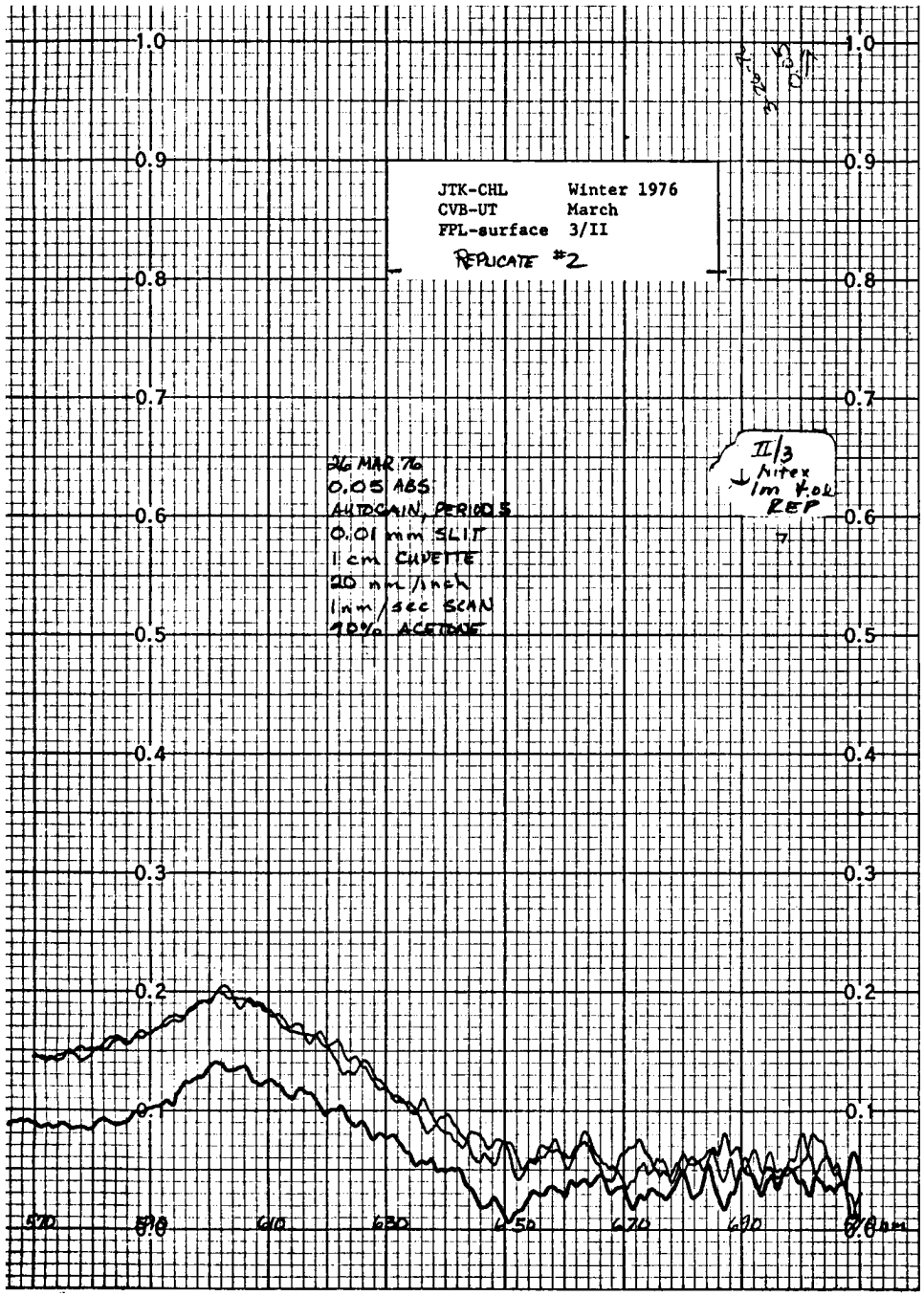


CHART NO. 12550
PRINTED IN U.S.A.
JOU-CHL Winter 1976
CVB-UT March
NAN-surface 3/II
REPLICATE #1
26 MAR 76
0.05 ABS
AUTOGAIN PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

JTK-CHL Winter 1976
CVB-UT March
FPL-surface 3/II
REPLICATE #2

26 MAR 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE

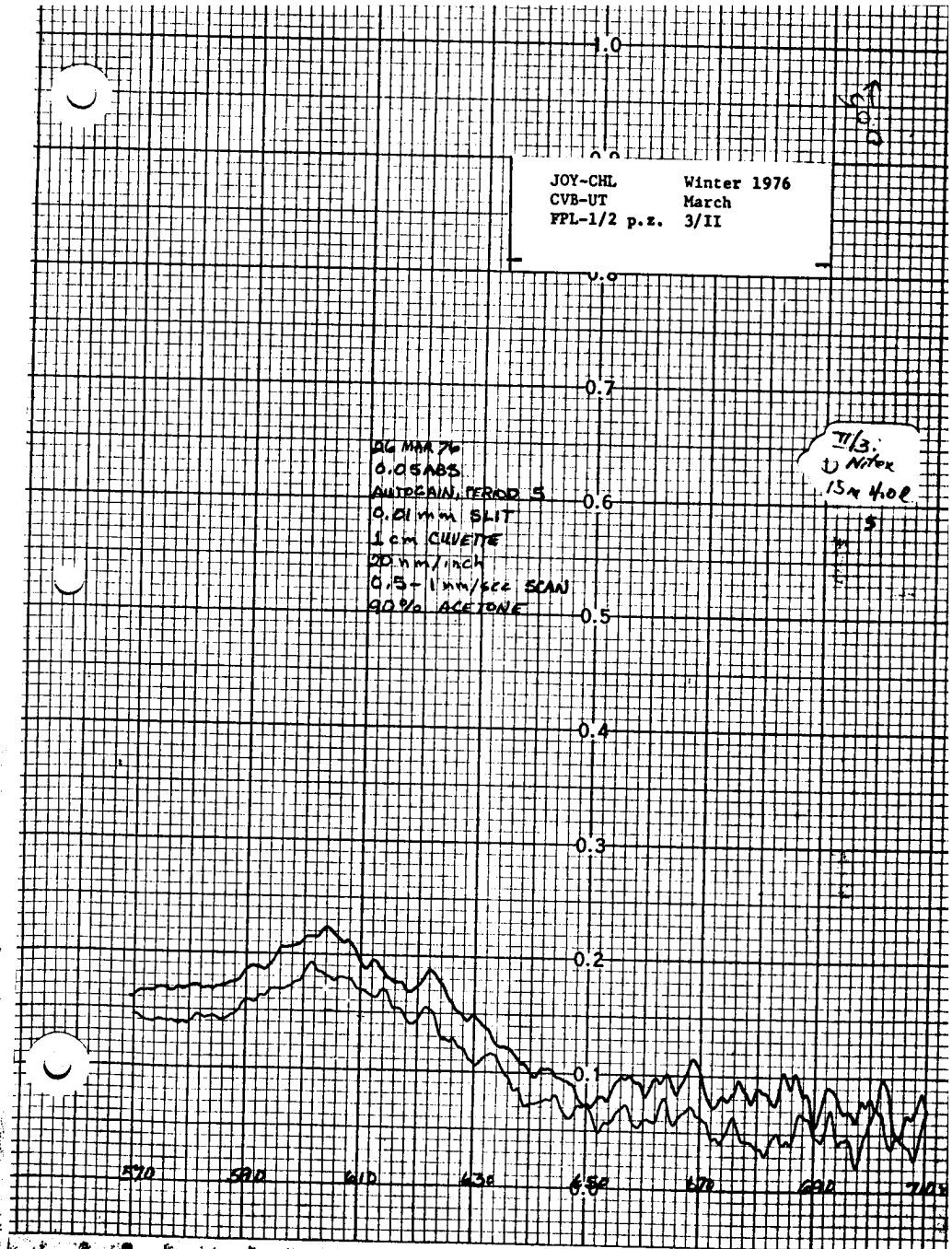
II/3
↓ liter
1m H.OL
REP

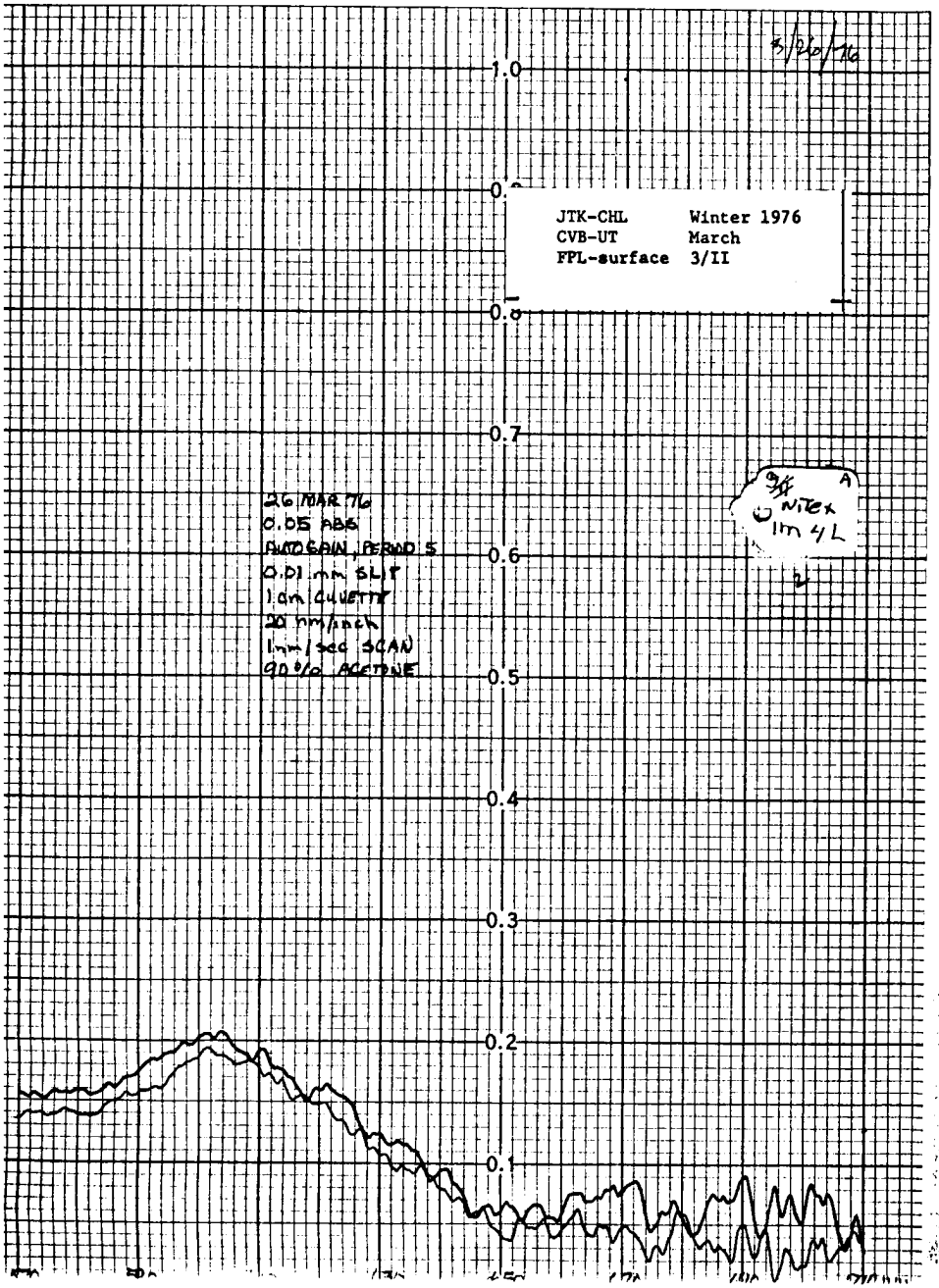


JOY-CHL Winter 1976
CVB-UT March
FPL-1/2 p.z. 3/II

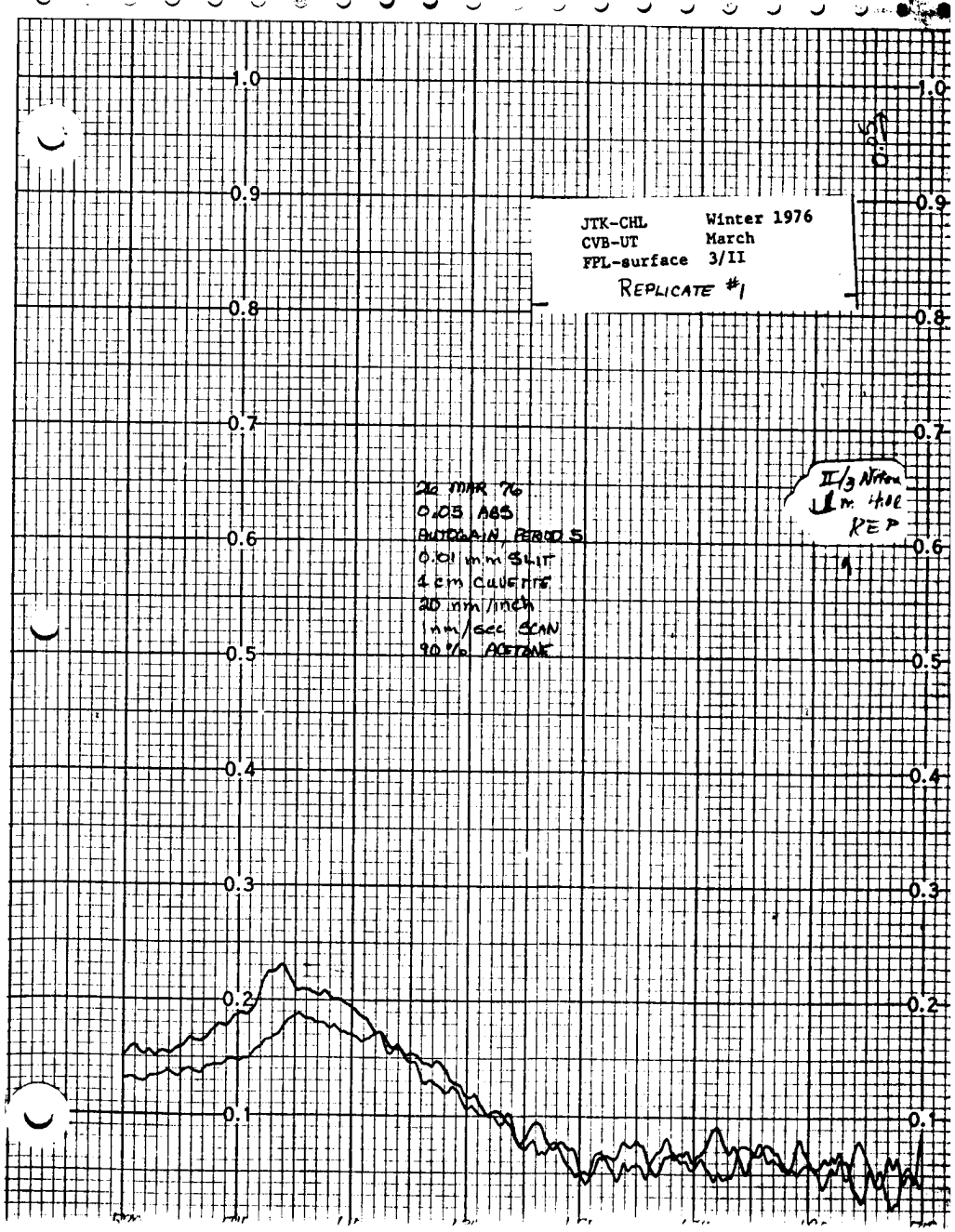
26 MAR 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
0.5-1 nm/sec SCAN
90% ACETONE

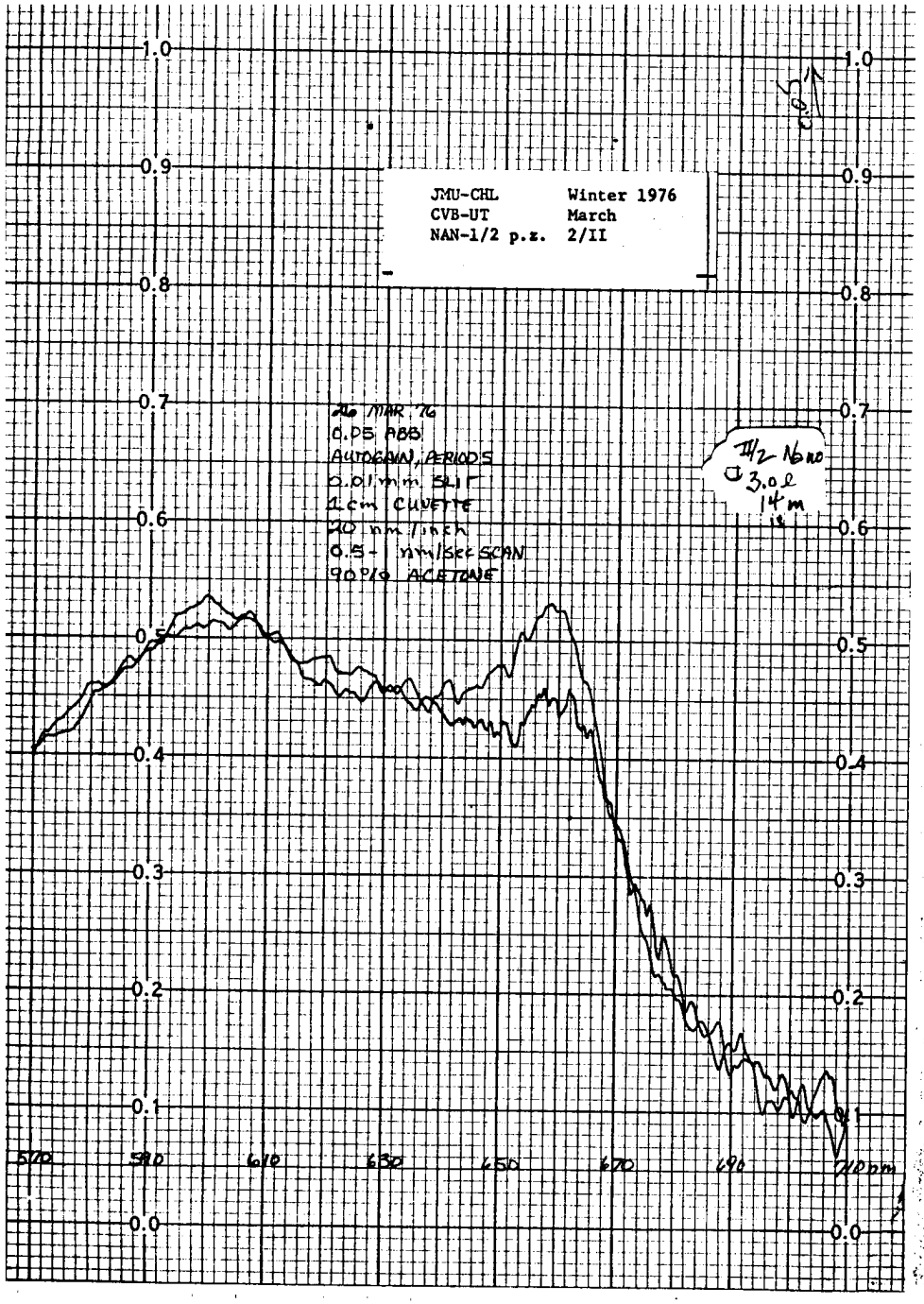
II/3
↓ liter
15m H.OL

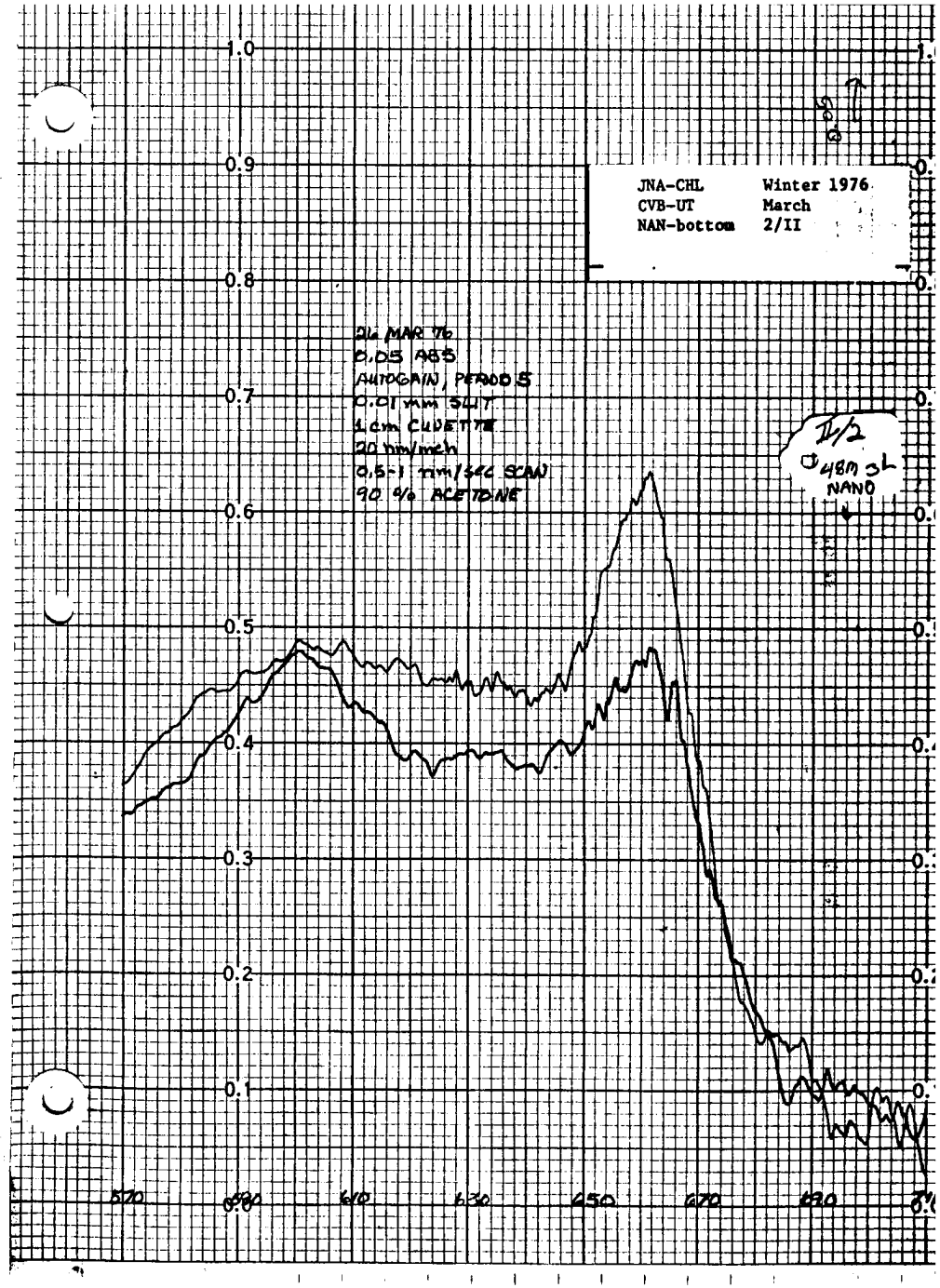


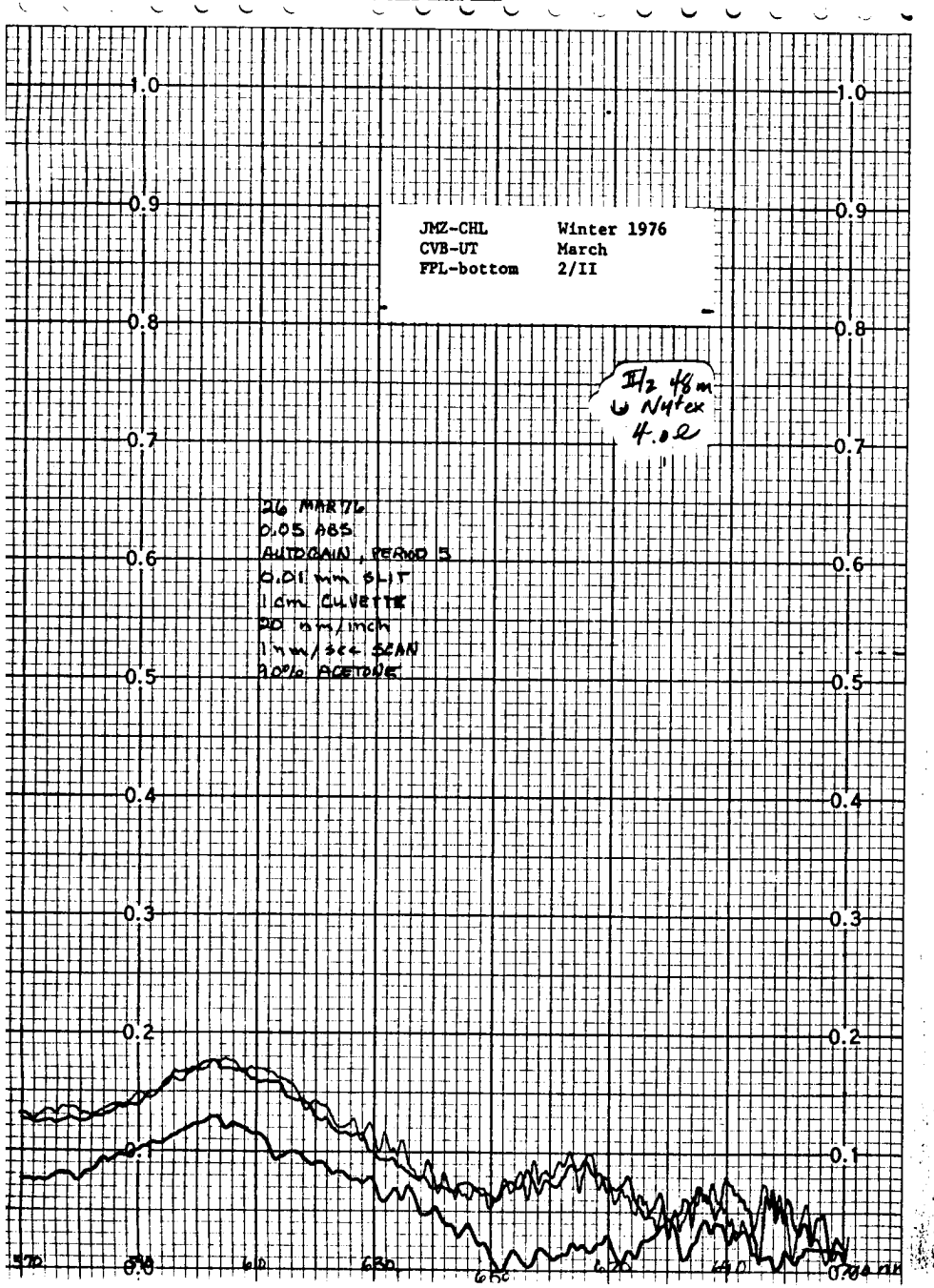


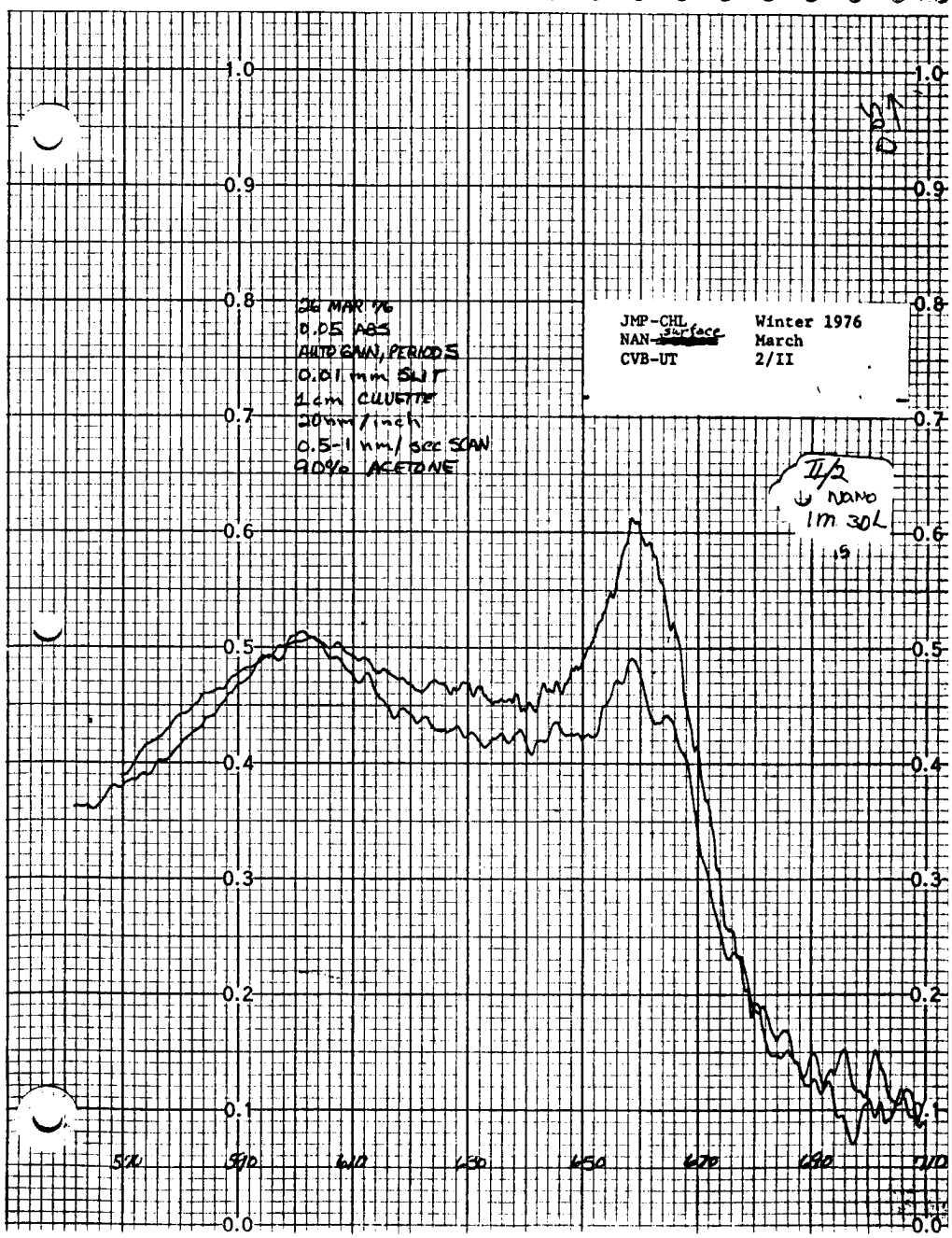
O. 12550 PRINTED IN U.S.A.

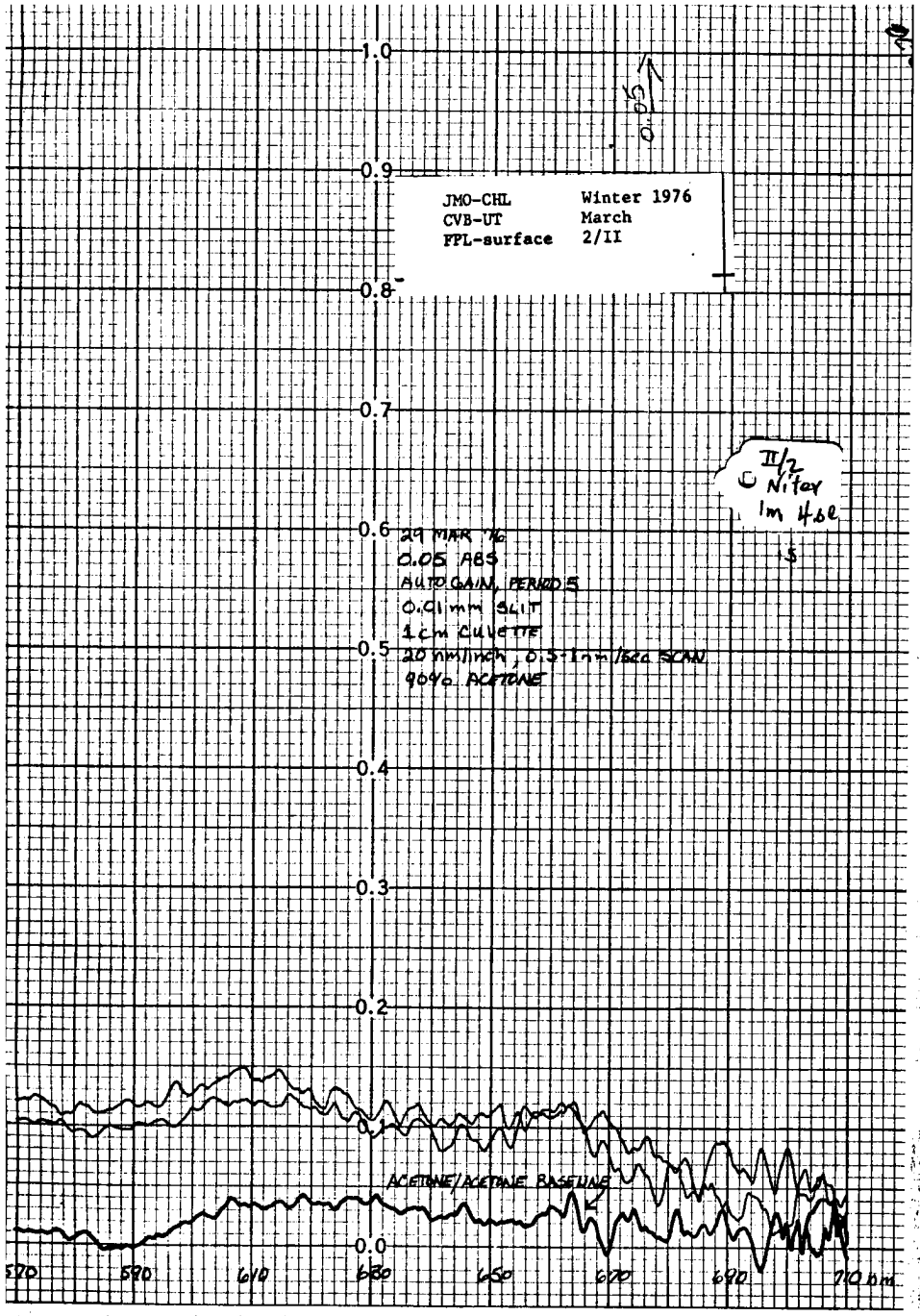


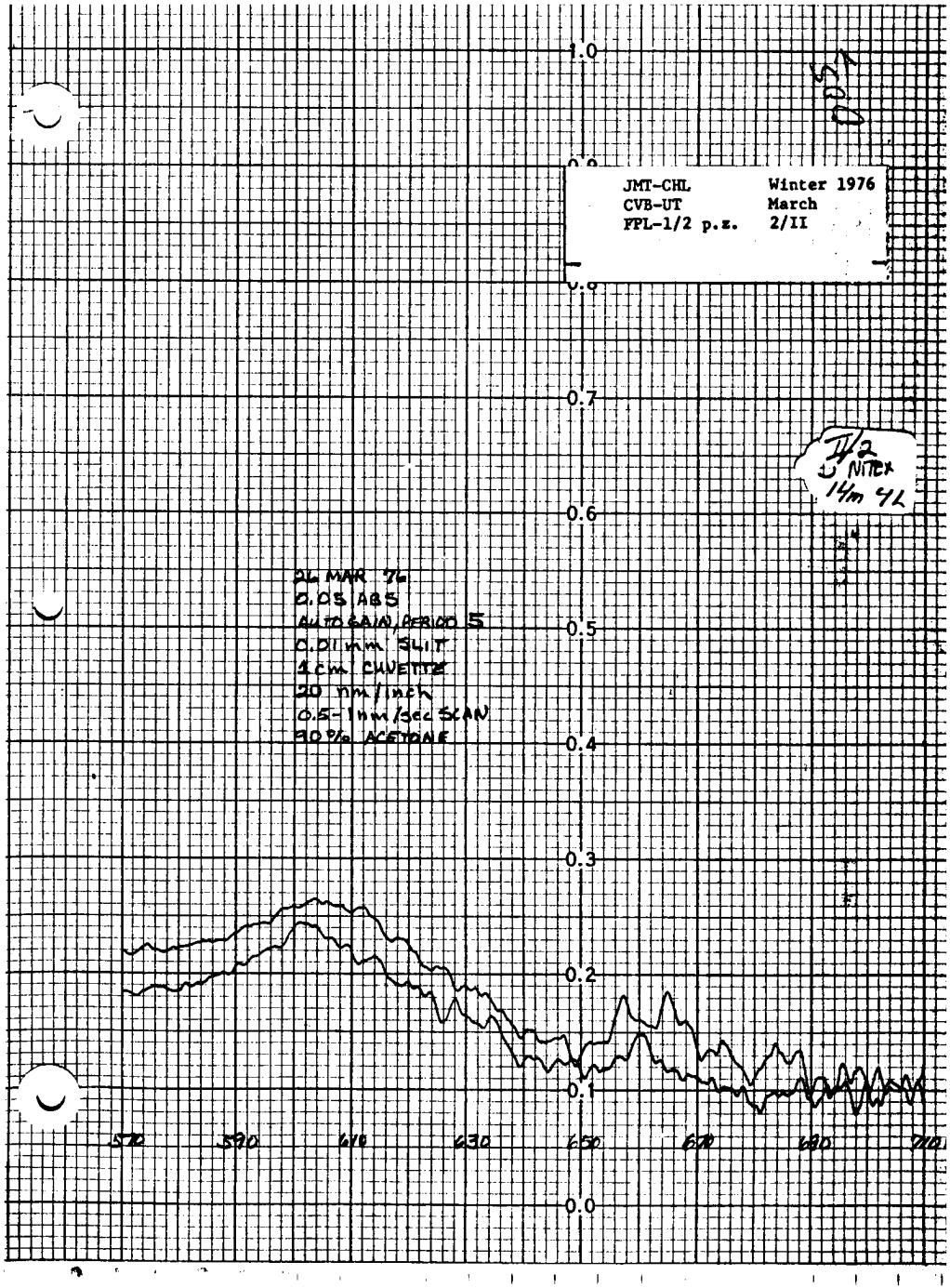

JMU-CHL Winter 1976
CVB-UT March
NAN-1/2 p.z. 2/II
26 MAR 76
0.05 ABS
AUTOGAIN, PERIODS
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
0.5 - nm/sec SCAN
90 % ACETONE
II/2 16 NO
3.0 l
14 m
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 nm


JNA-CHL Winter 1976
CVB-UT March
NAN-bottom 2/II
26 MAR 76
0.05 ABS
AUTOGAIN, PERIODS
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
0.5-1 nm/sec SCAN
90 % ACETONE
II/2
48 m 3L
NANO
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690


JMZ-CHL Winter 1976
CVB-UT March
FPL-bottom 2/II
II/2 48m
↳ Nytex
4.02
26 MAR 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710


JMP-CHL Winter 1976
NAN-surface March
CVB-UT 2/II
26 MAR 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1cm CUVETTE
20nm/inch
0.5-1 nm/sec SCAN
90% ACETONE
II/2
↳ NANO
1m 30L
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710


JMO-CHL Winter 1976
CVB-UT March
FPL-surface 2/II
II/2
Water
1m Hole
29 MAR 76
0.05 ABS
AUTO GAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch, 0.5-1 nm/sec SCAN
90% ACETONE
ACETONE/ACETONE BASELINE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 nm

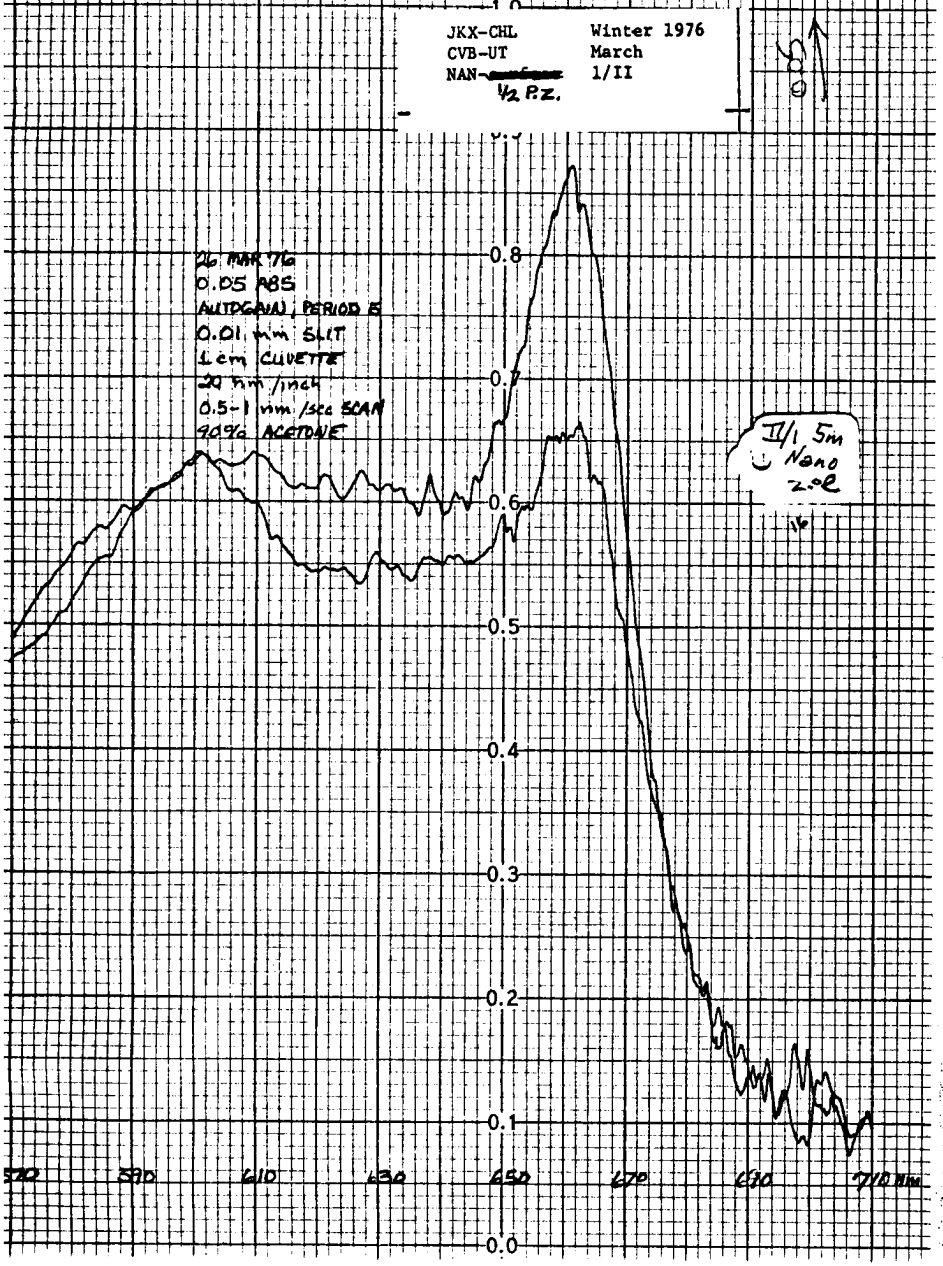

JMT-CHL Winter 1976
CVB-UT March
FPL-1/2 p.s. 2/II
II/2
Water
1m 4L
26 MAR 76
0.05 ABS
AUTO GAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
0.5-1 nm/sec SCAN
90% ACETONE
1.0
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710

cary instruments / a varian subsidiary

JKX-CHL Winter 1976
CVB-UT March
NAN-~~[illegible]~~ 1/II
½ P.Pz.

26 MAR 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
0.5-1 nm/sec SCAN
90% ACETONE

II/1 5m
Nano
2.0 ml

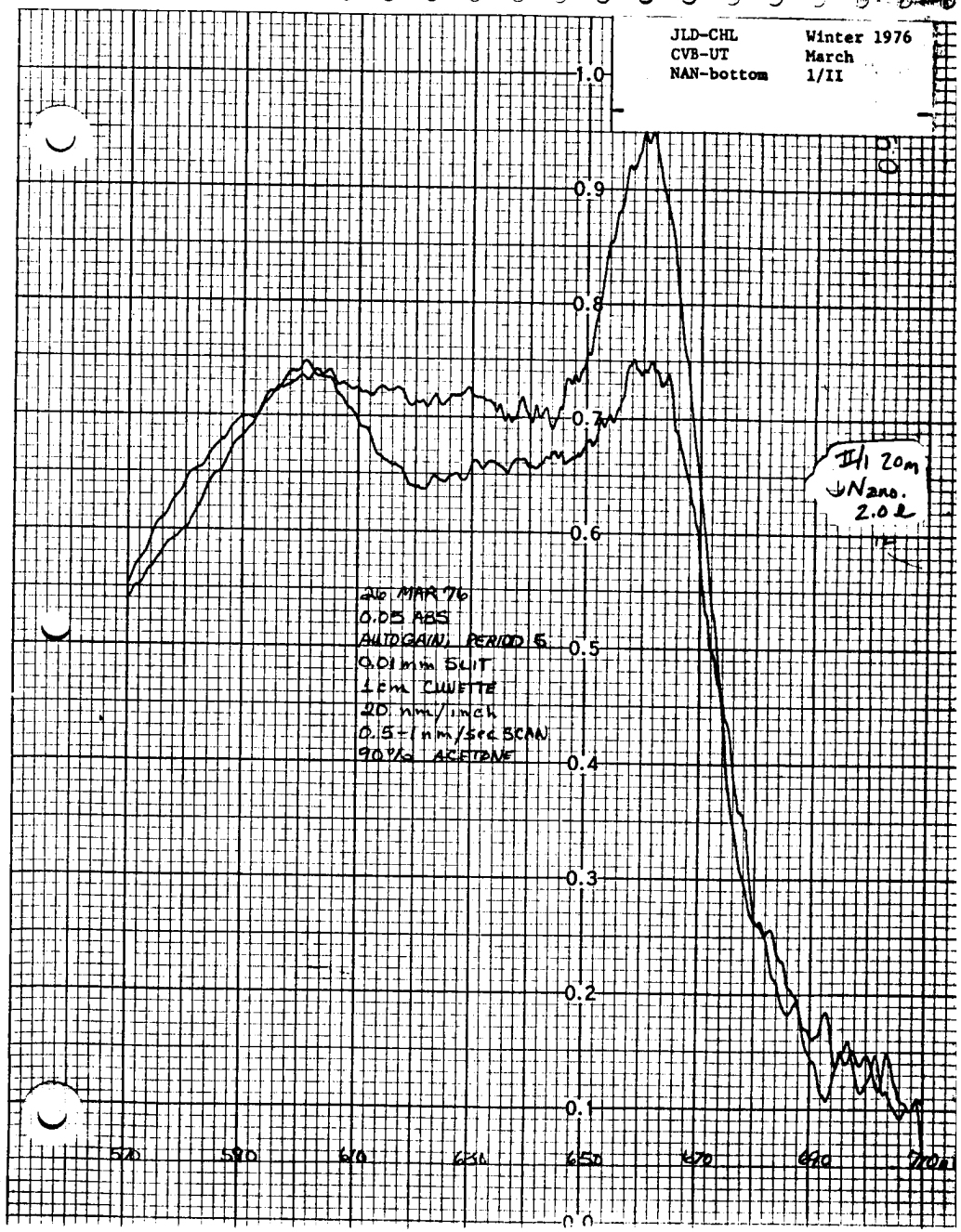


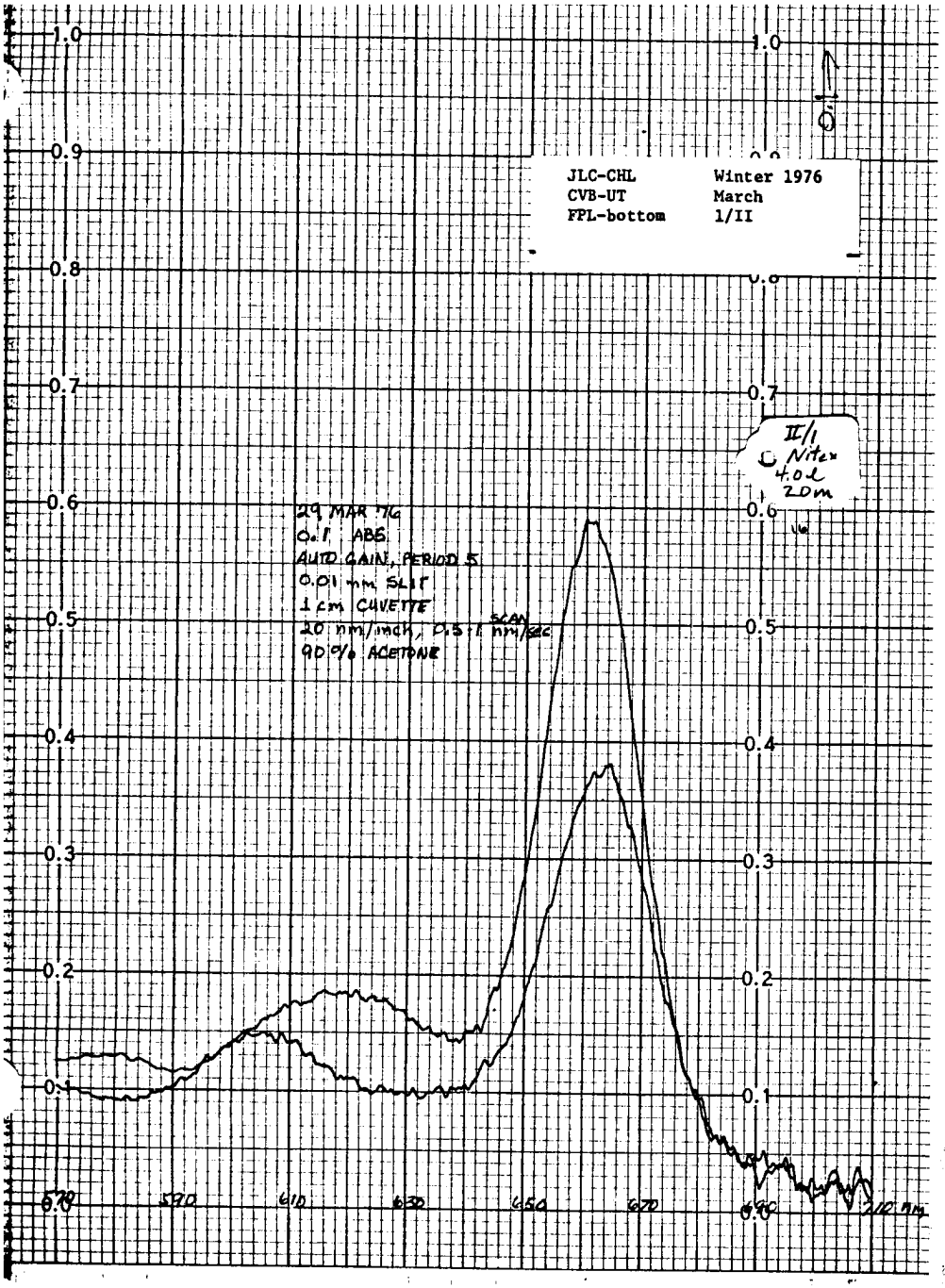
cary instruments / a varian subsidiary

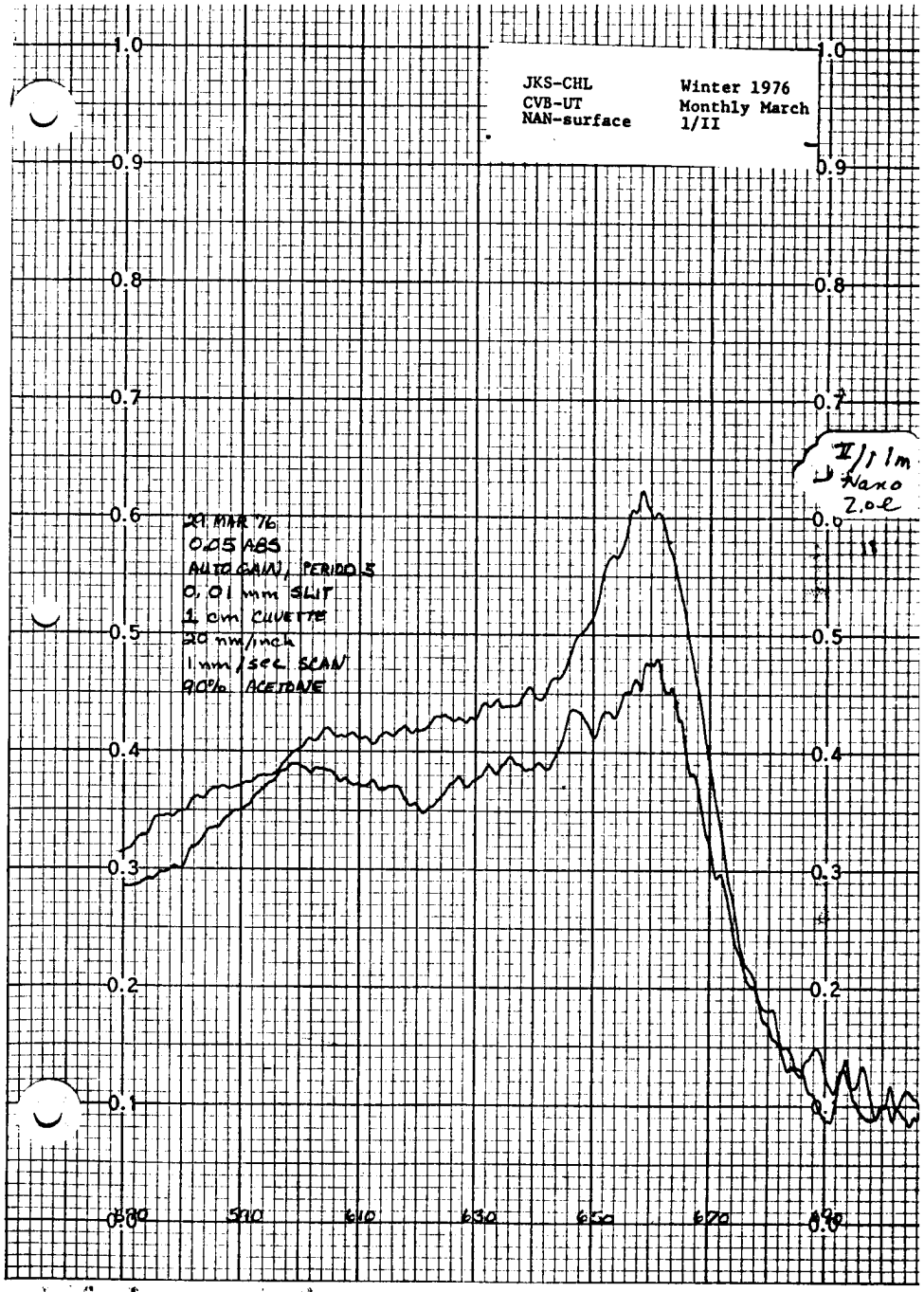
JLD-CHL Winter 1976
CVB-UT March
NAN-bottom 1/II

II/1 20m
Nano.
2.0 ml

26 MAR 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
0.5-1 nm/sec SCAN
90% ACETONE




JLC-CHL
CVB-UT
FPL-bottom
Winter 1976
March
1/II
II/1
Niter
4.0 l
20m
29 MAR '76
0.1 ABS
AUTO GAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch, 0.5 : 1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
610
630
650
670
690
nm


JKS-CHL
CVB-UT
NAN-surface
Winter 1976
Monthly March
1/II
II/1 1m
Nano
2.0 l
29 MAR 76
0.05 ABS
AUTO GAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
610
630
650
670
690

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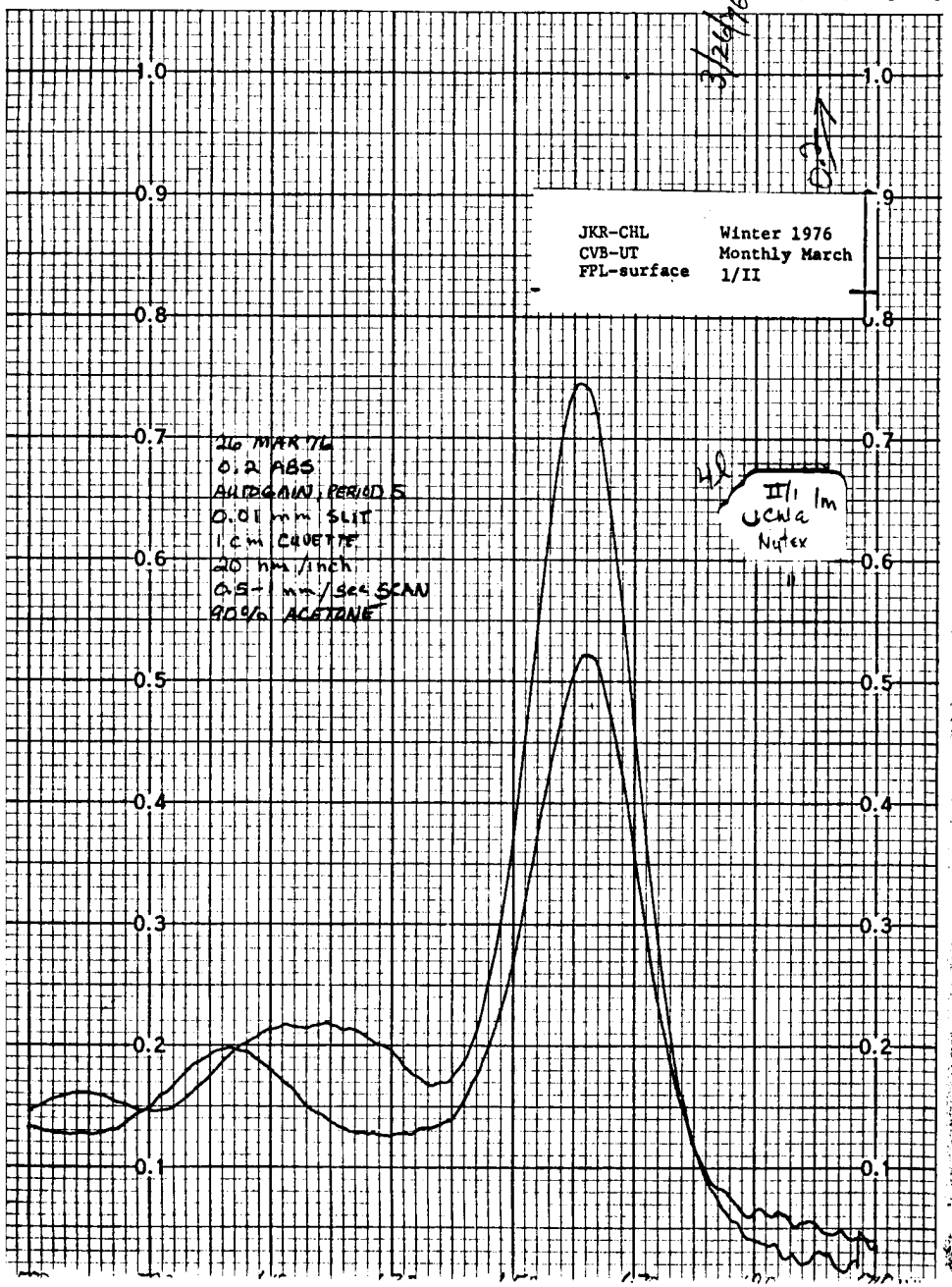
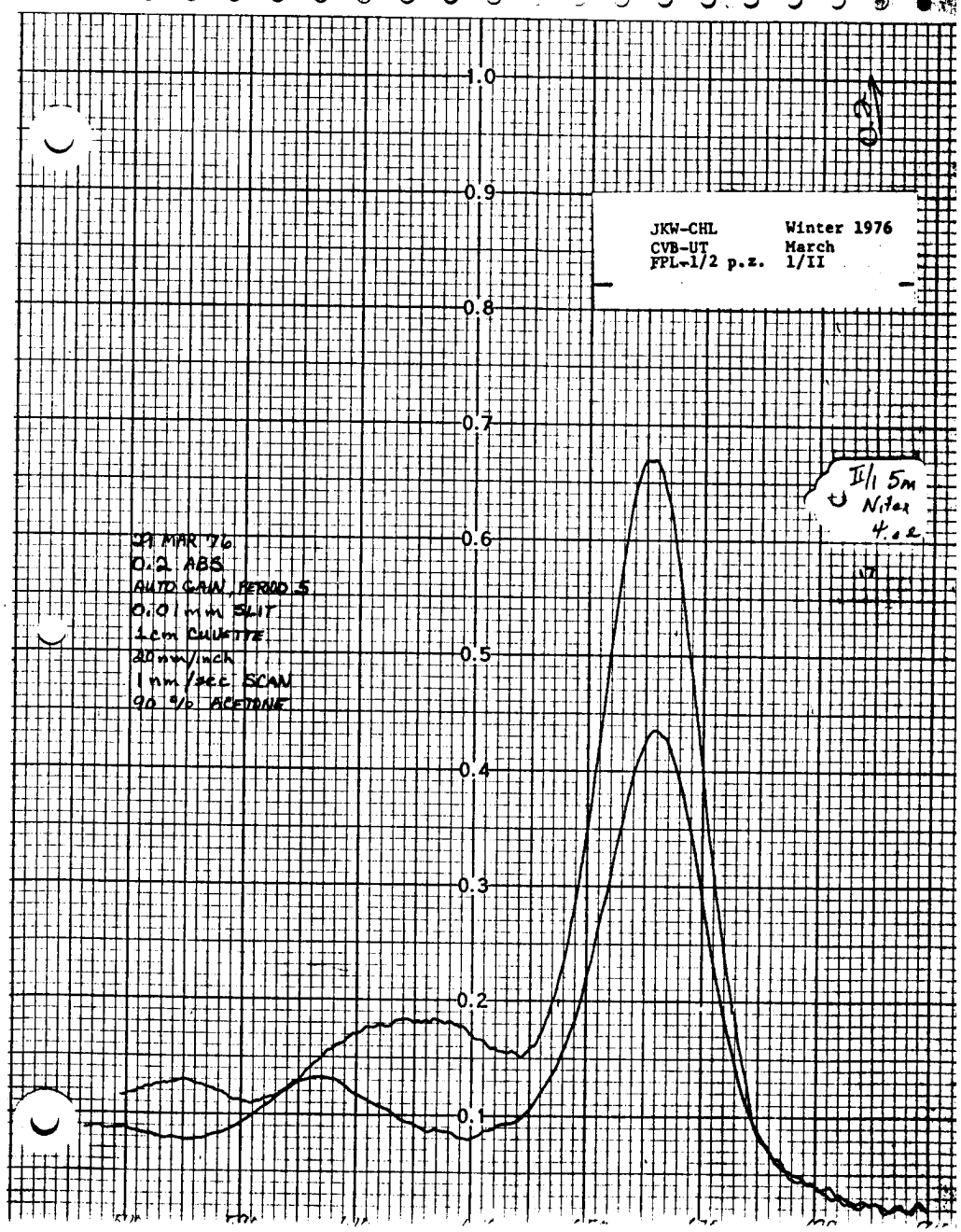
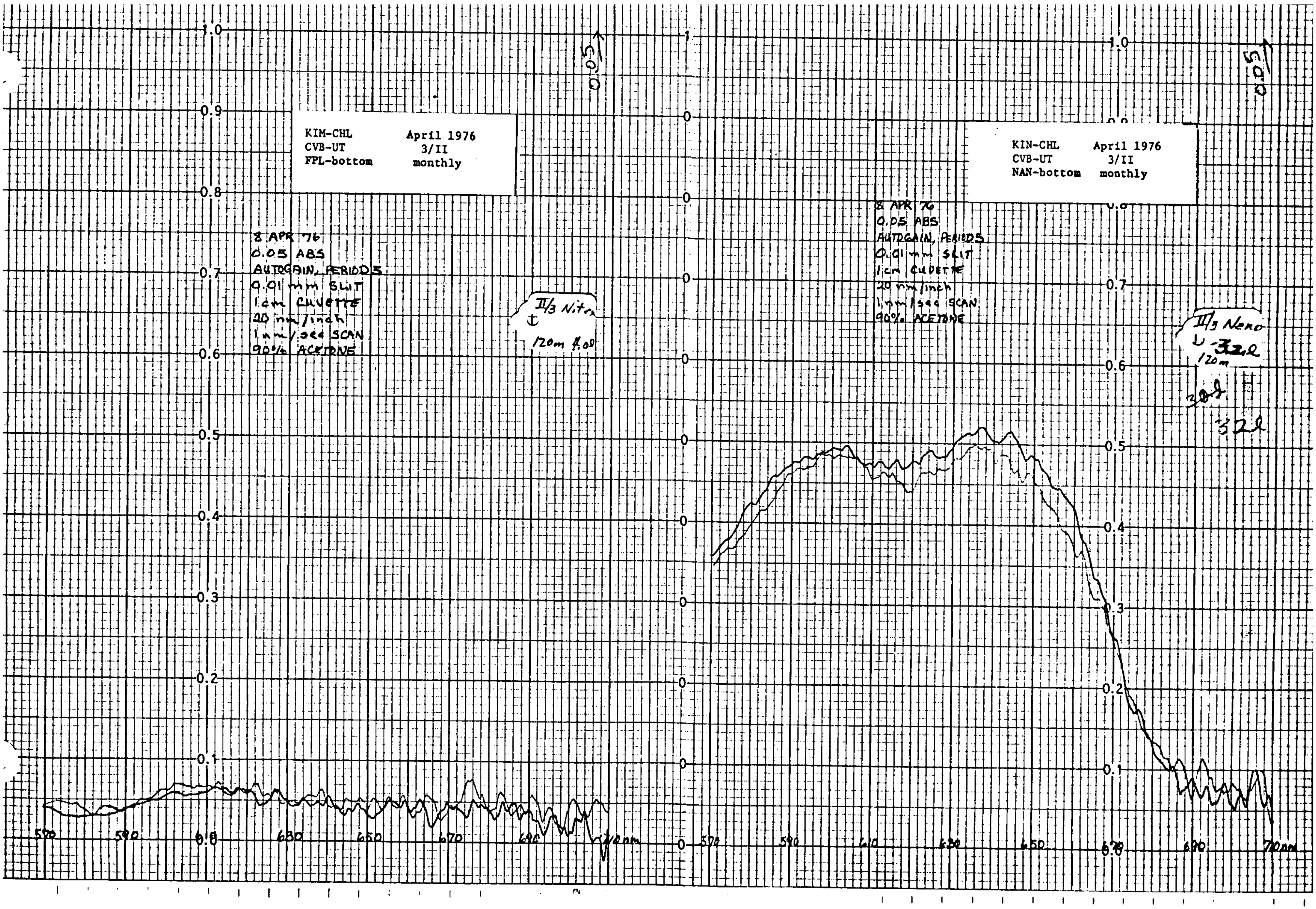
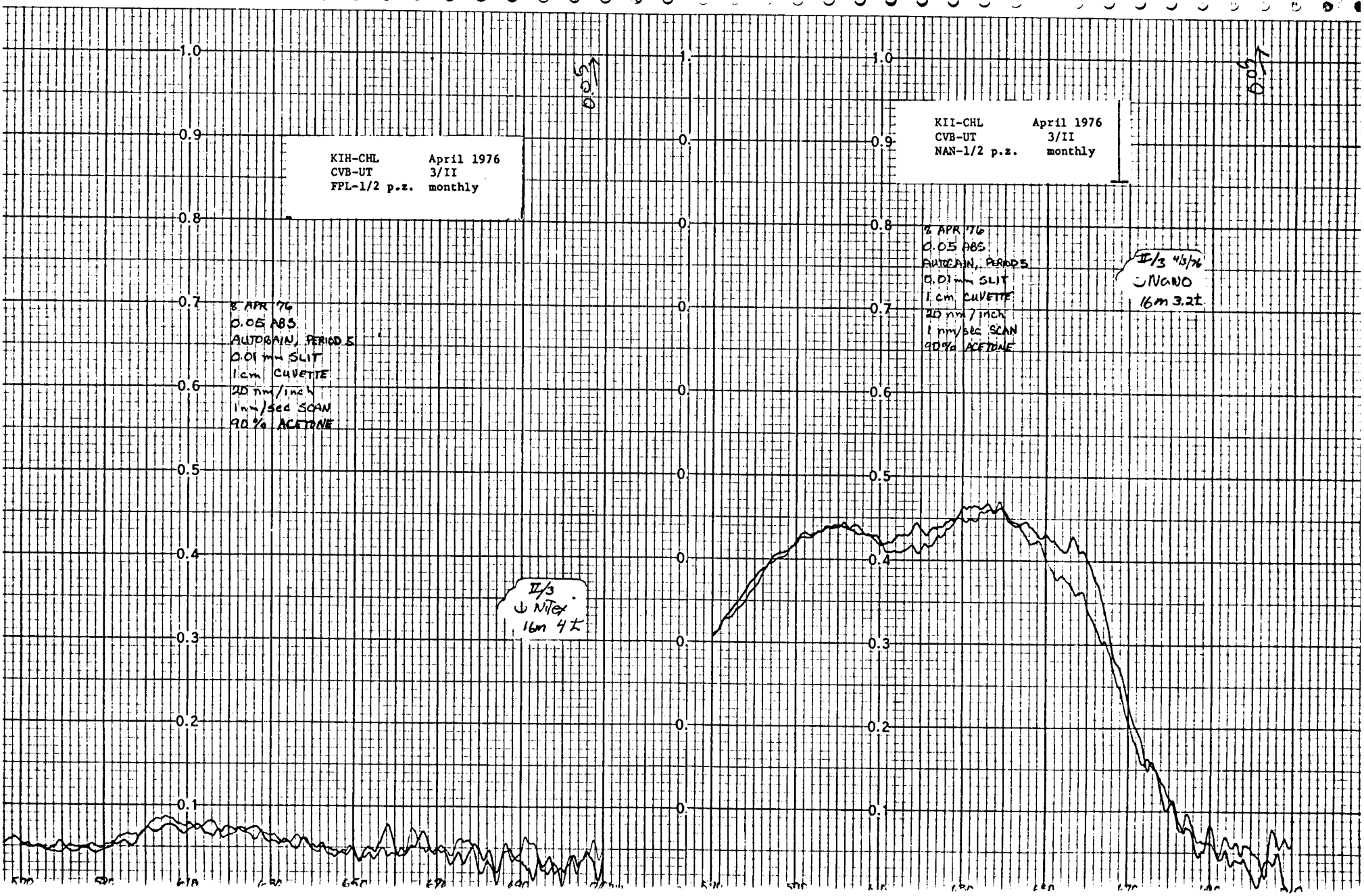


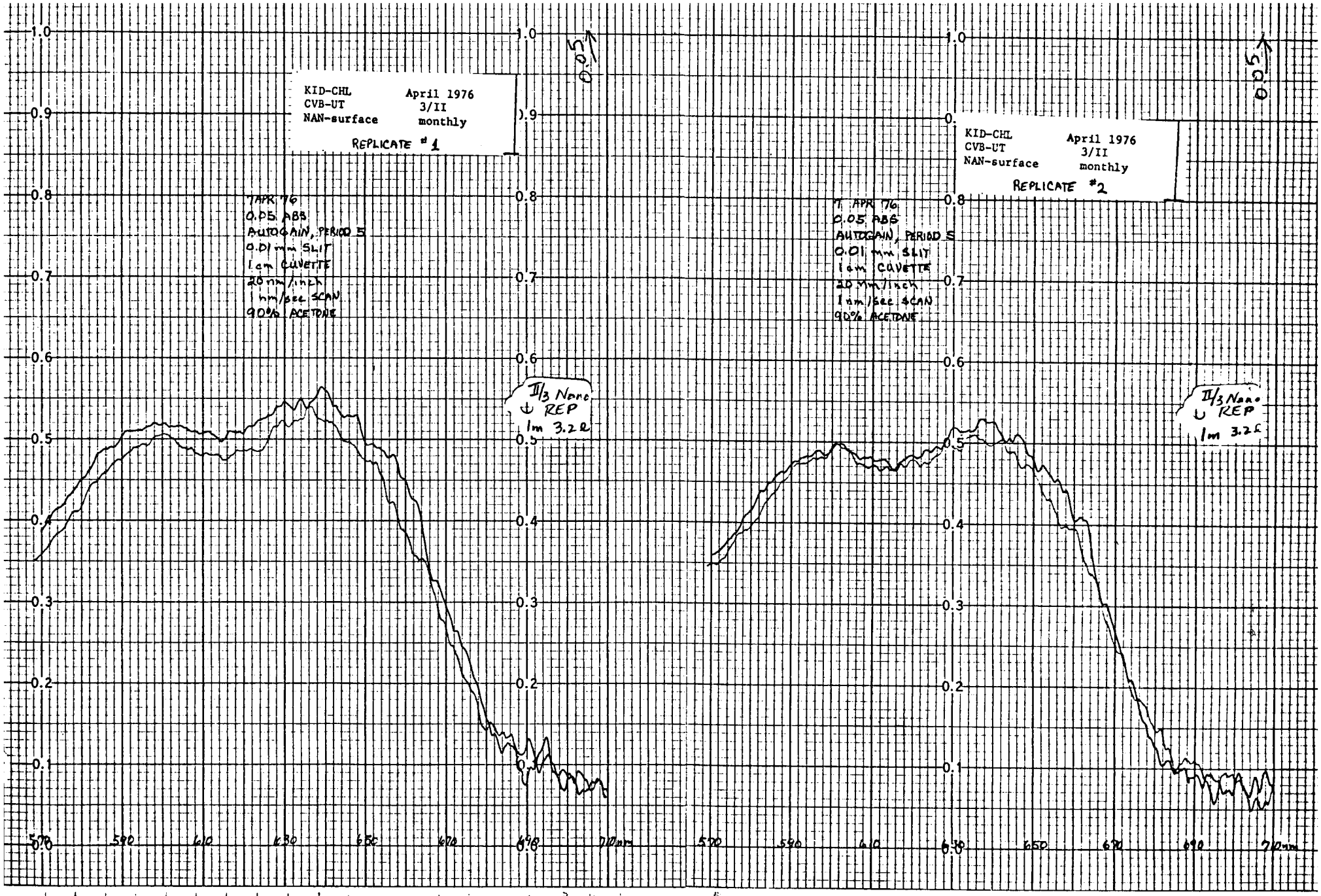
CHART NO. 12590 PRINTED IN U.S.A.





KIM-CHL April 1976
CVB-UT 3/II
FPL-bottom monthly
8 APR 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
II/3 Nitra
120 m
0.05
KIN-CHL April 1976
CVB-UT 3/II
NAN-bottom monthly
8 APR 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
II/3 Neno
120 m
32 l
0.05
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710 nm


KIH-CHL April 1976
CVB-UT 3/II
FPL-1/2 p.z. monthly
8 APR '76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
II/3
↓ NiTex
16m 4.2t
KII-CHL April 1976
CVB-UT 3/II
NAN-1/2 p.z. monthly
8 APR '76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
II/3 4/5/76
↓ NANO
16m 3.2t
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0


KID-CHL
CVB-UT
NAN-surface
April 1976
3/II
monthly
REPLICATE #1
7APR'76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
II/3 Nano
↓ REP
1m 3.2e
0.05
KID-CHL
CVB-UT
NAN-surface
April 1976
3/II
monthly
REPLICATE #2
7 APR 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
II/3 Nano
↓ REP
1m 3.2e
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710nm

cary instruments/a varian subsidiary

KIC-CHL* April 1976
CVB-UT 3/II
FPL-surface monthly
REPLICATE #2

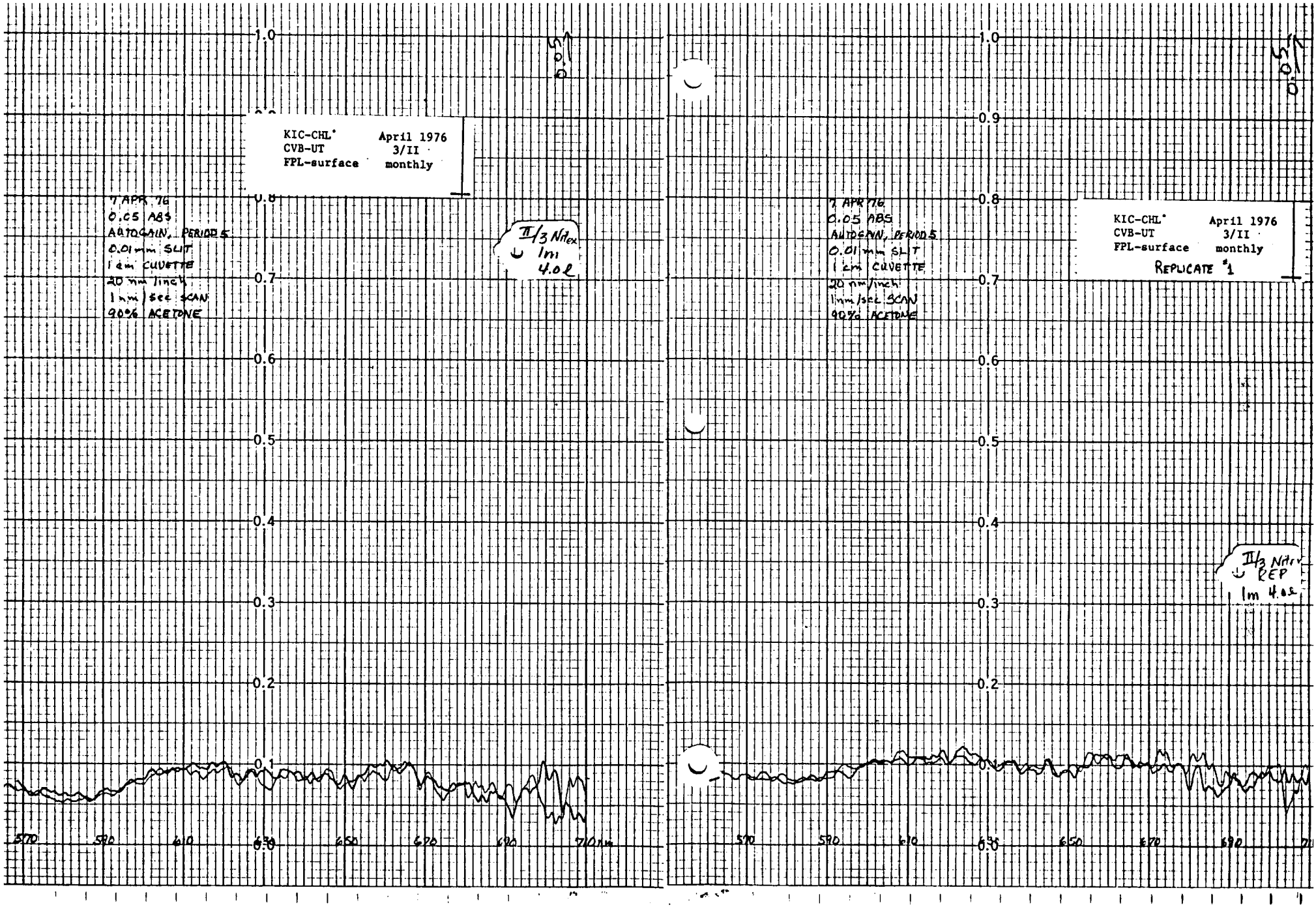
1 APR 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE

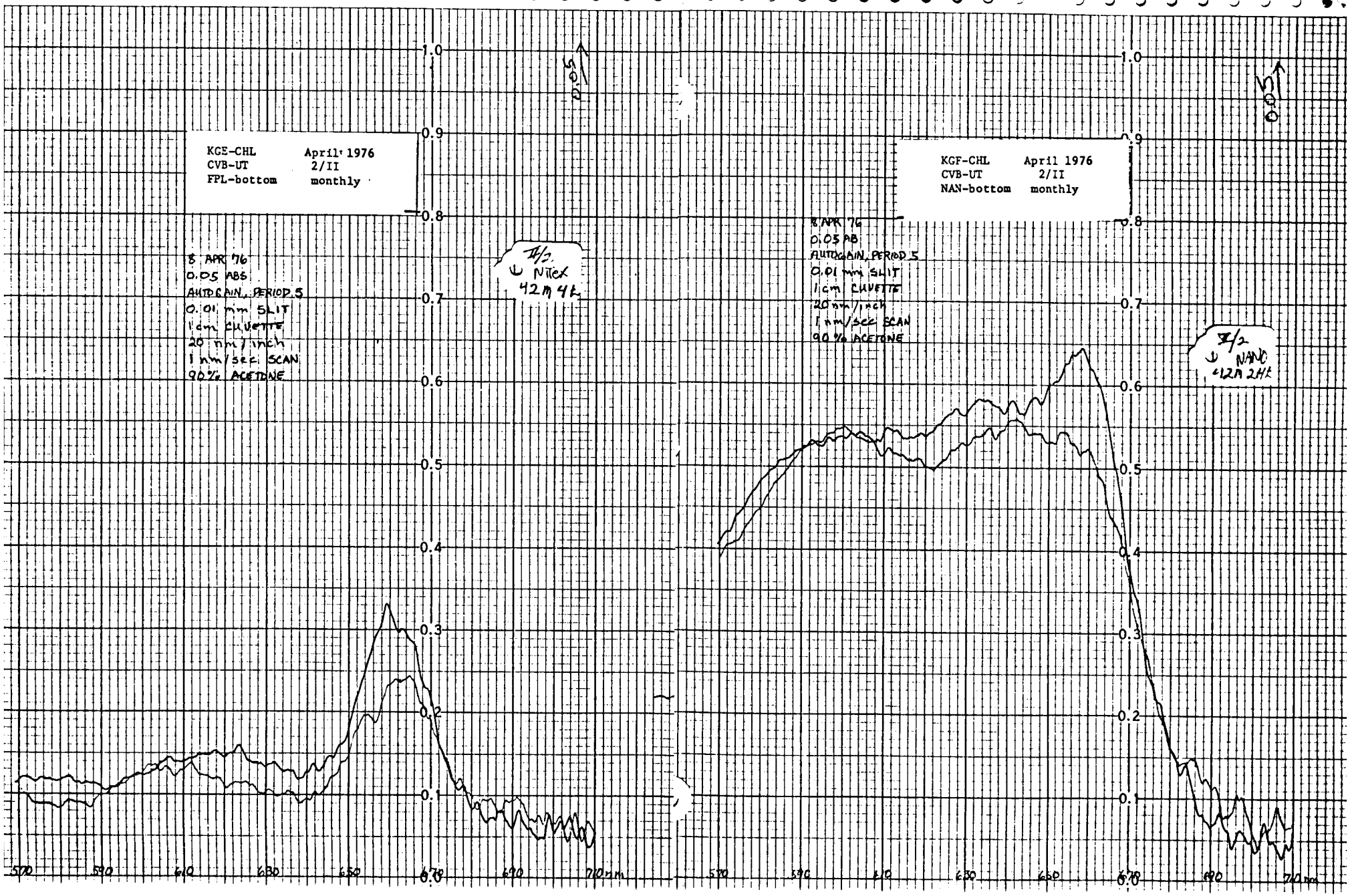
III/3 Nite
REP
1m 40e

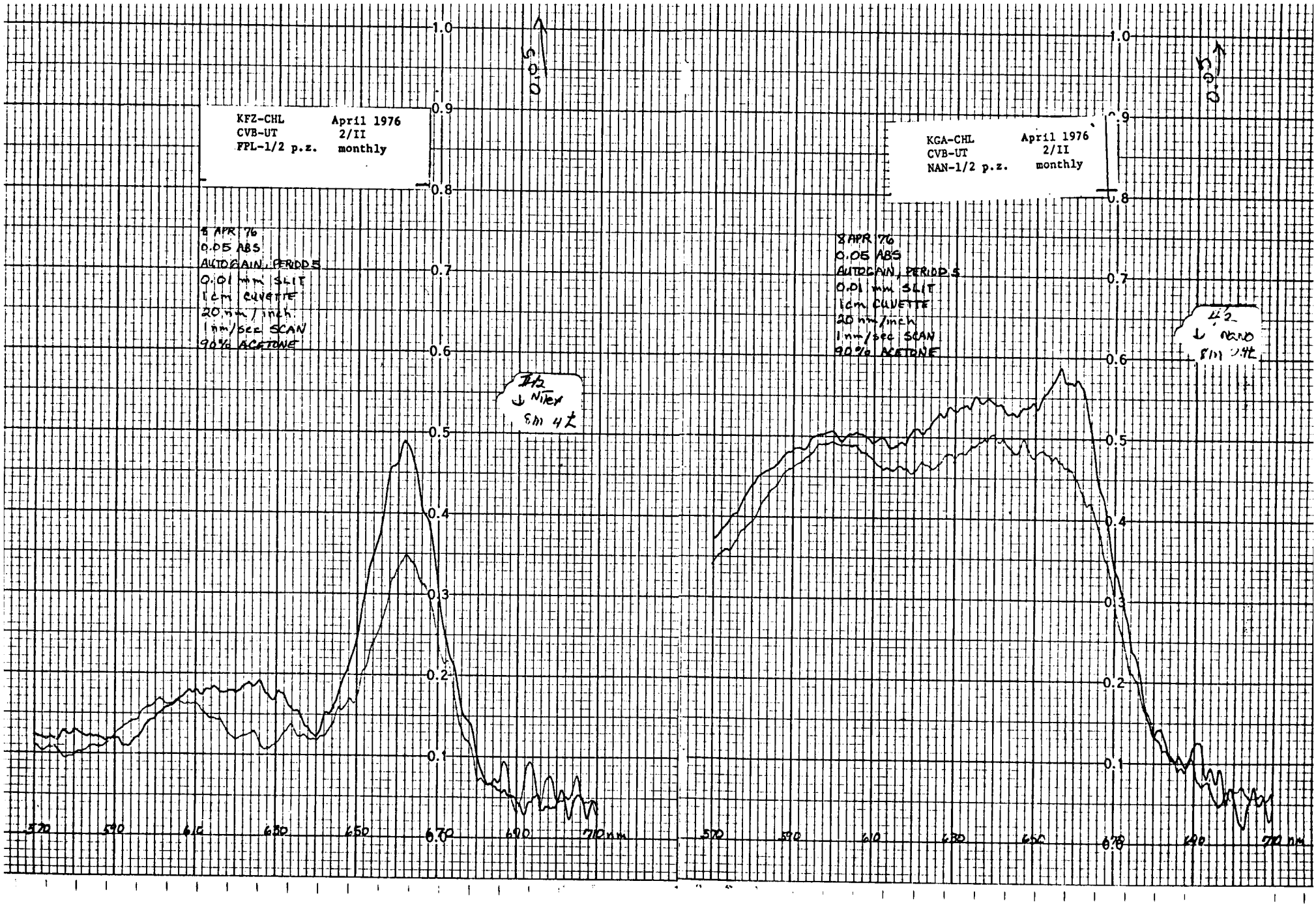
KID-CHL April 1976
CVB-UT 3/II
NAN-surface monthly

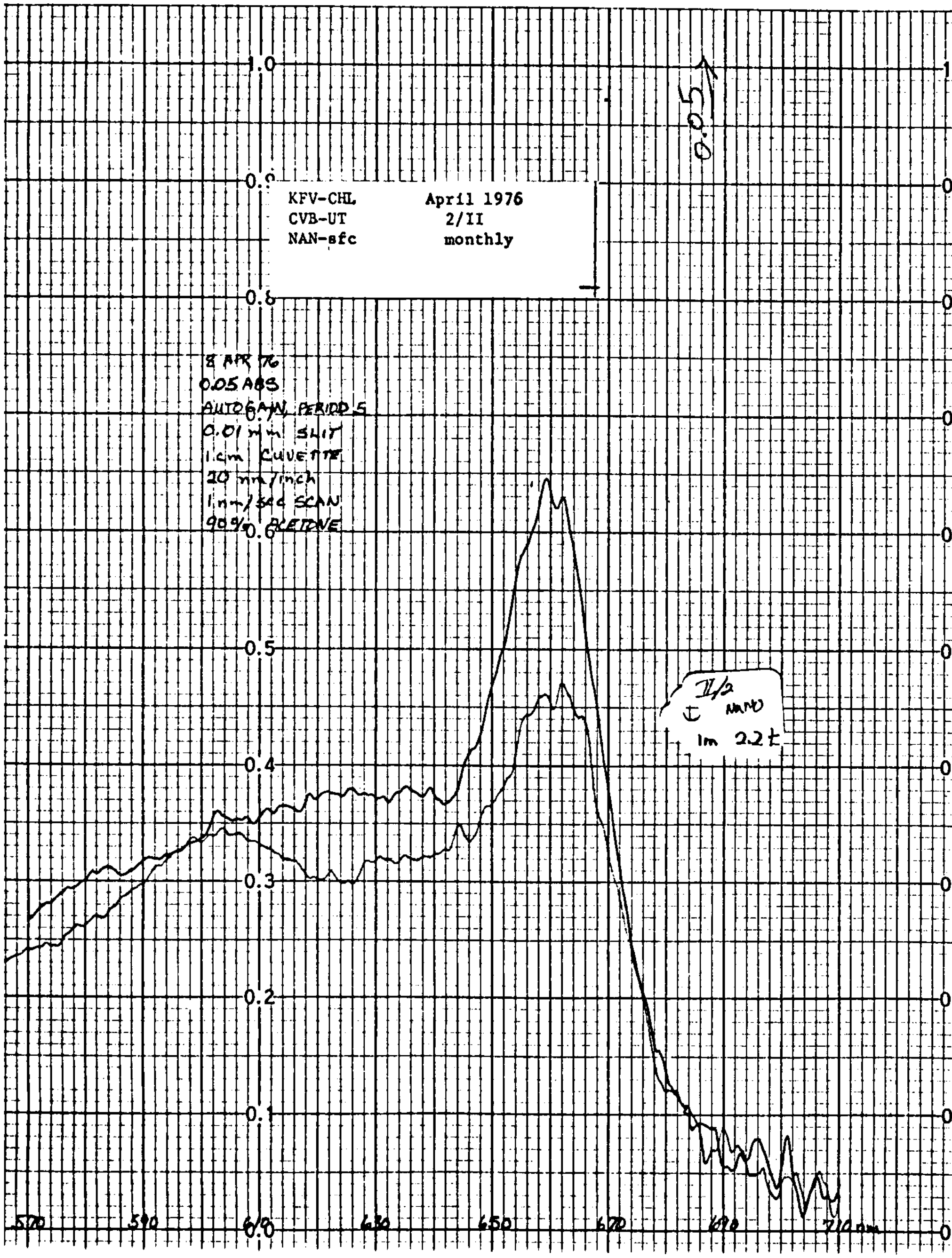
1 APR 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE

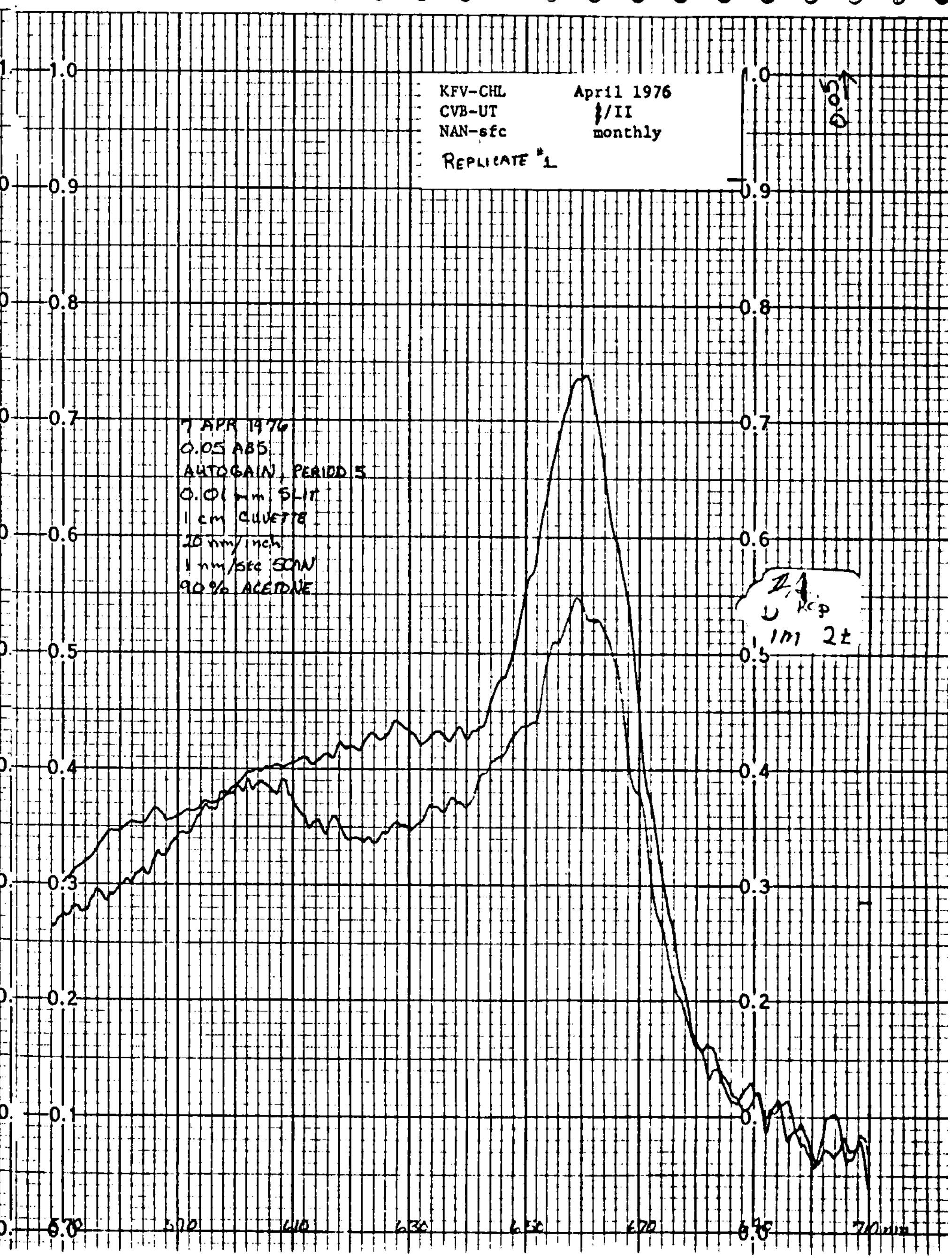
III/3 Nite
1m 32e

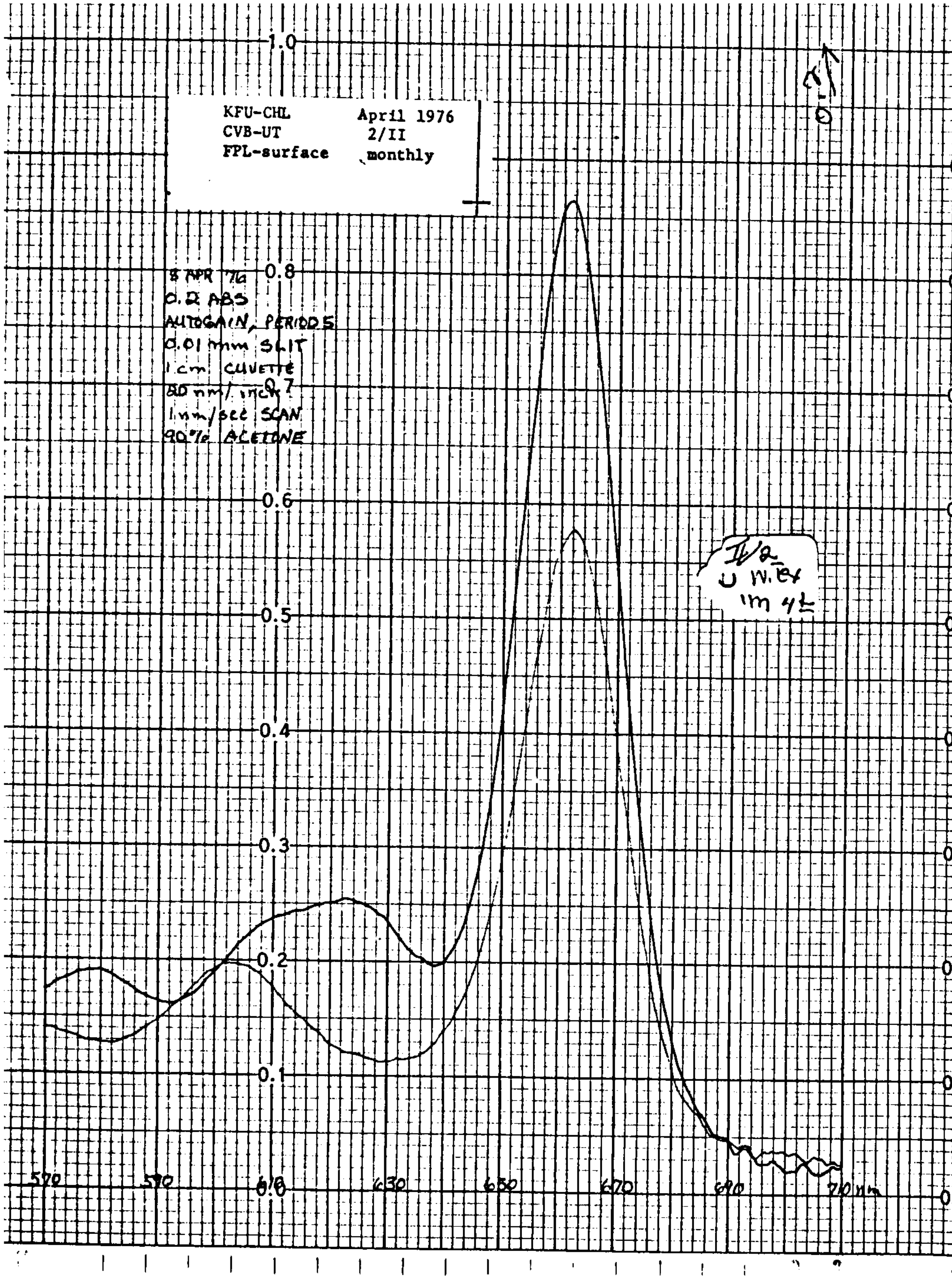

KIC-CHL* April 1976
CVB-UT 3/II
FPL-surface monthly
7 APR 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
II/3 Nitex
Im
4.0 L
KIC-CHL* April 1976
CVB-UT 3/II
FPL-surface monthly
REPLICATE #1
7 APR 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
II/3 Nitex
REP
Im 4.0 L
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 nm

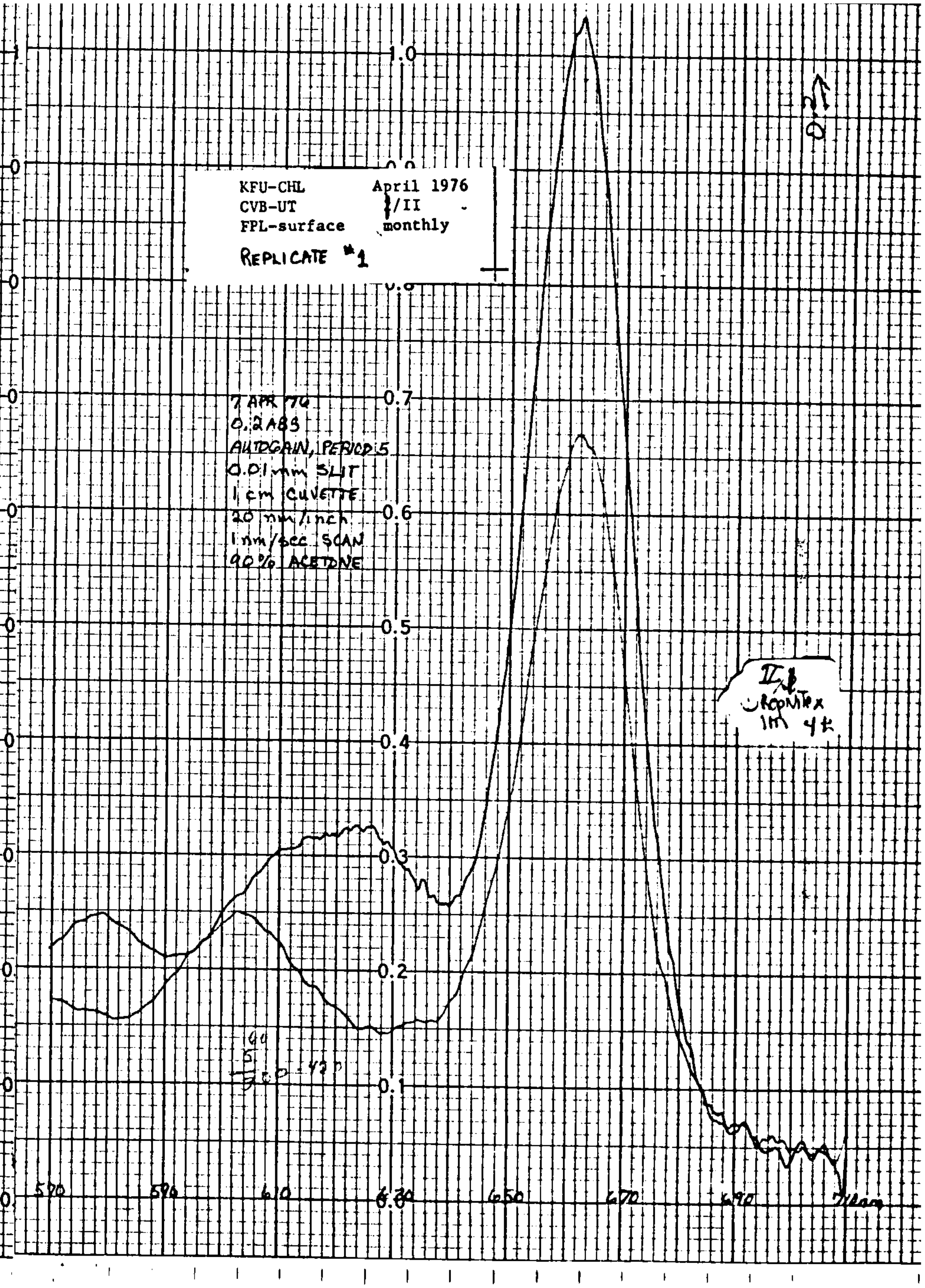

KGE-CHL April 1976
CVB-UT 2/II
FPL-bottom monthly
8 APR 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
II/2
NITEX
42M 4L
KGF-CHL April 1976
CVB-UT 2/II
NAN-bottom monthly
8 APR 76
0.05 AB
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
II/2
NANC
42M 2HL
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710nm


KFZ-CHL April 1976
CVB-UT 2/II
FPL-1/2 p.z. monthly
8 APR 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
KGA-CHL April 1976
CVB-UT 2/II
NAN-1/2 p.z. monthly
8 APR 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710 nm


RT NO. 12550
PRINTED IN U.S.A.
KFV-CHL April 1976
CVB-UT 2/II
NAN-sfc monthly
8 APR 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 nm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
0.05
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 nm
1m 2.2t


cary instruments / a varian subsidiary
CHART NO. 12550
PRINTED IN U.S.A.
KFV-CHL April 1976
CVB-UT /II
NAN-sfc monthly
REPLICATE #1
7 APR 1976
0.05 ABS
AUTOGAIN, PERIOD 5
0.01 nm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 nm
1m 2t


KFU-CHL
April 1976
CVB-UT
2/II
FPL-surface
monthly
8 APR 76
0.2 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1.0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 nm


KFU-CHL
April 1976
CVB-UT
2/II
FPL-surface
monthly
REPLICATE #1
7 APR 76
0.2 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1.0
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 nm

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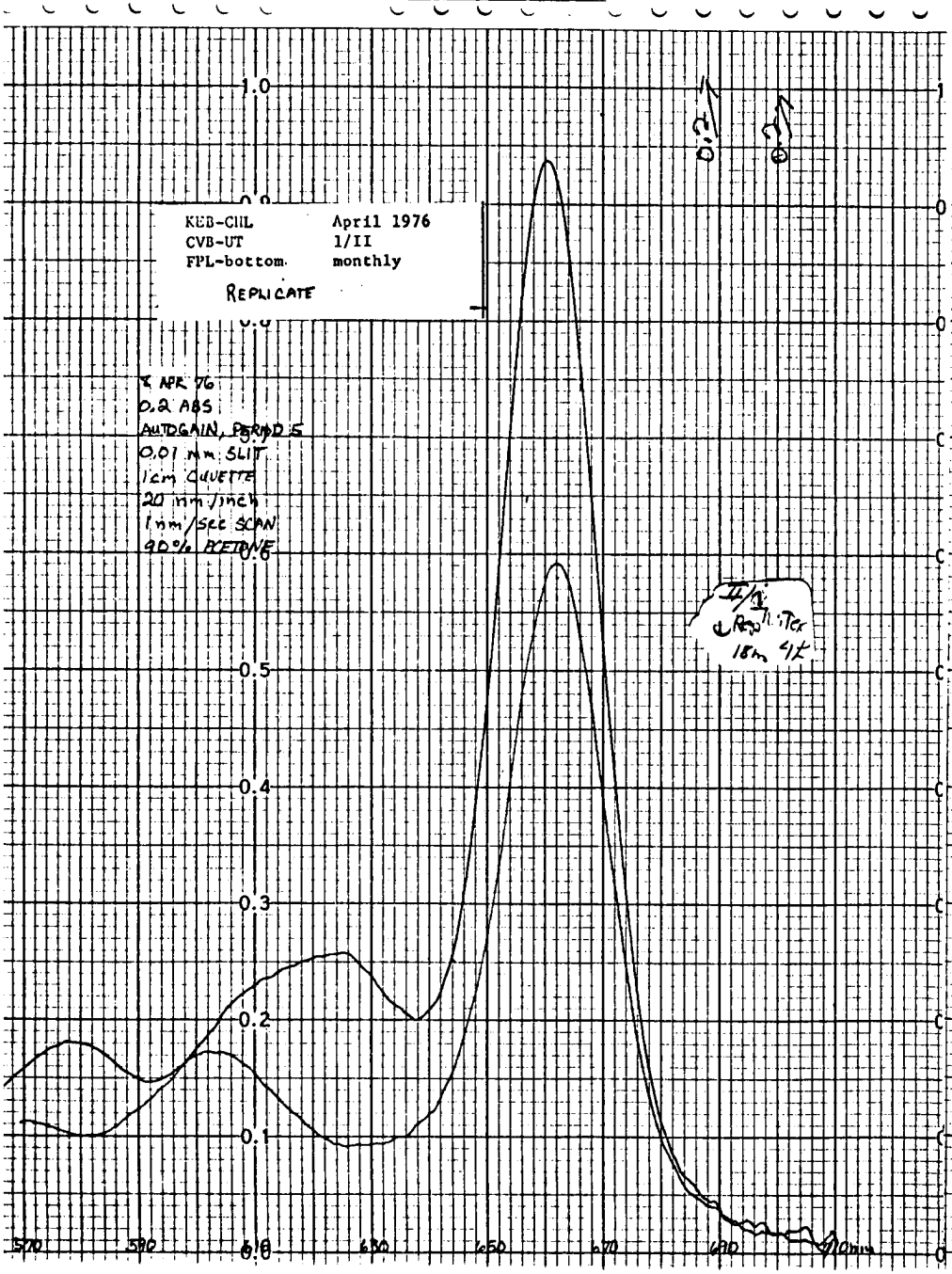
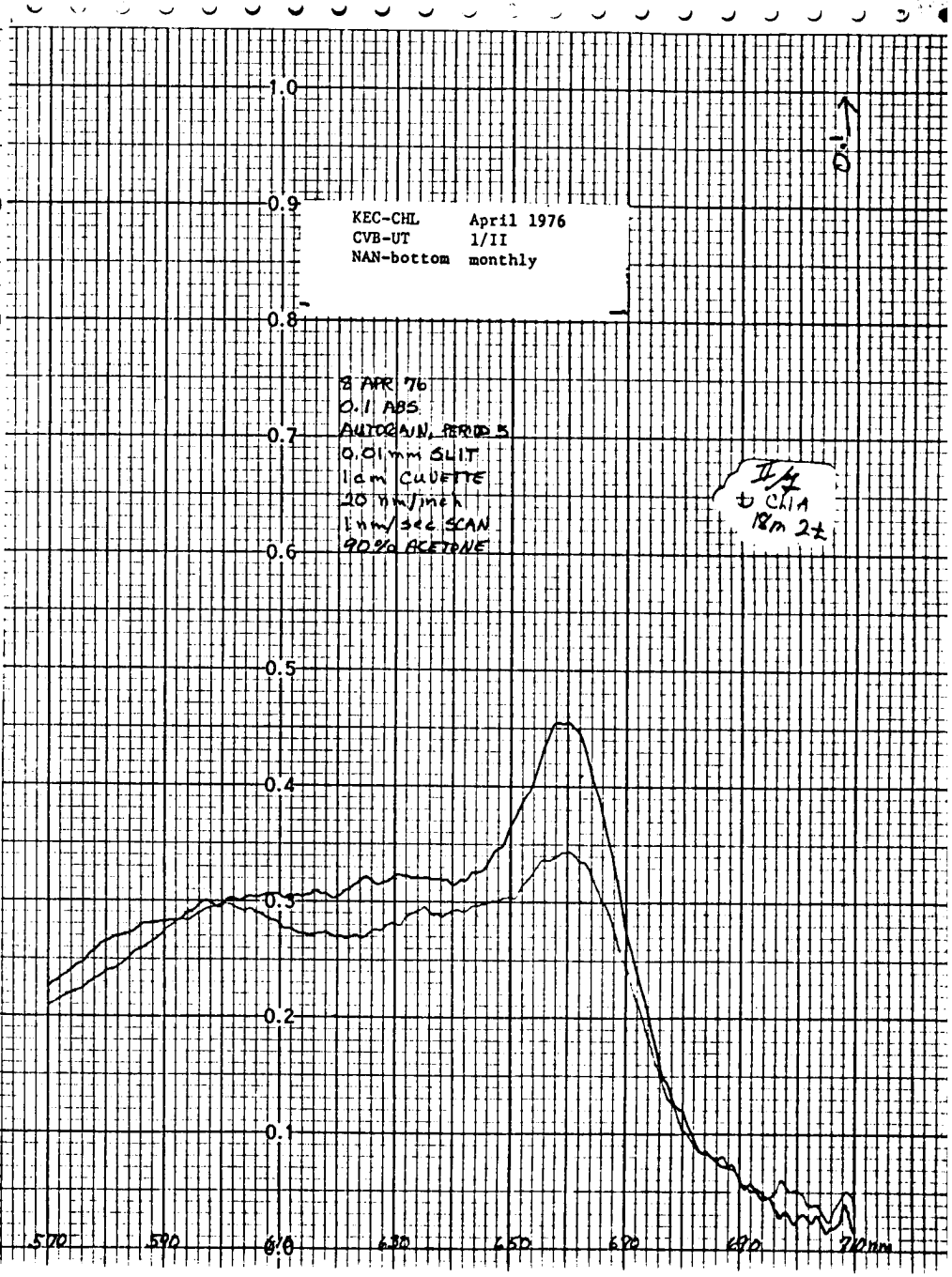
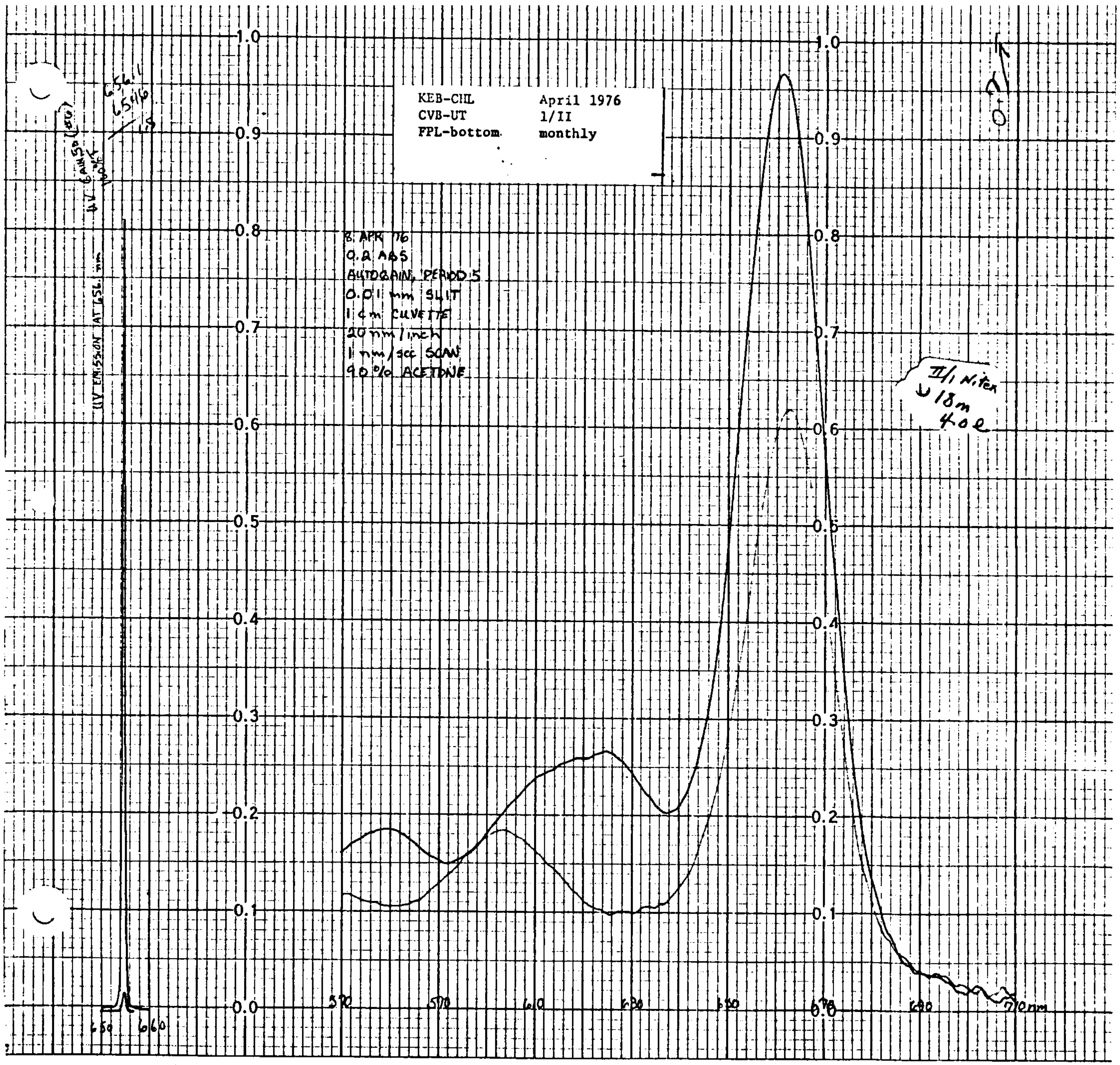
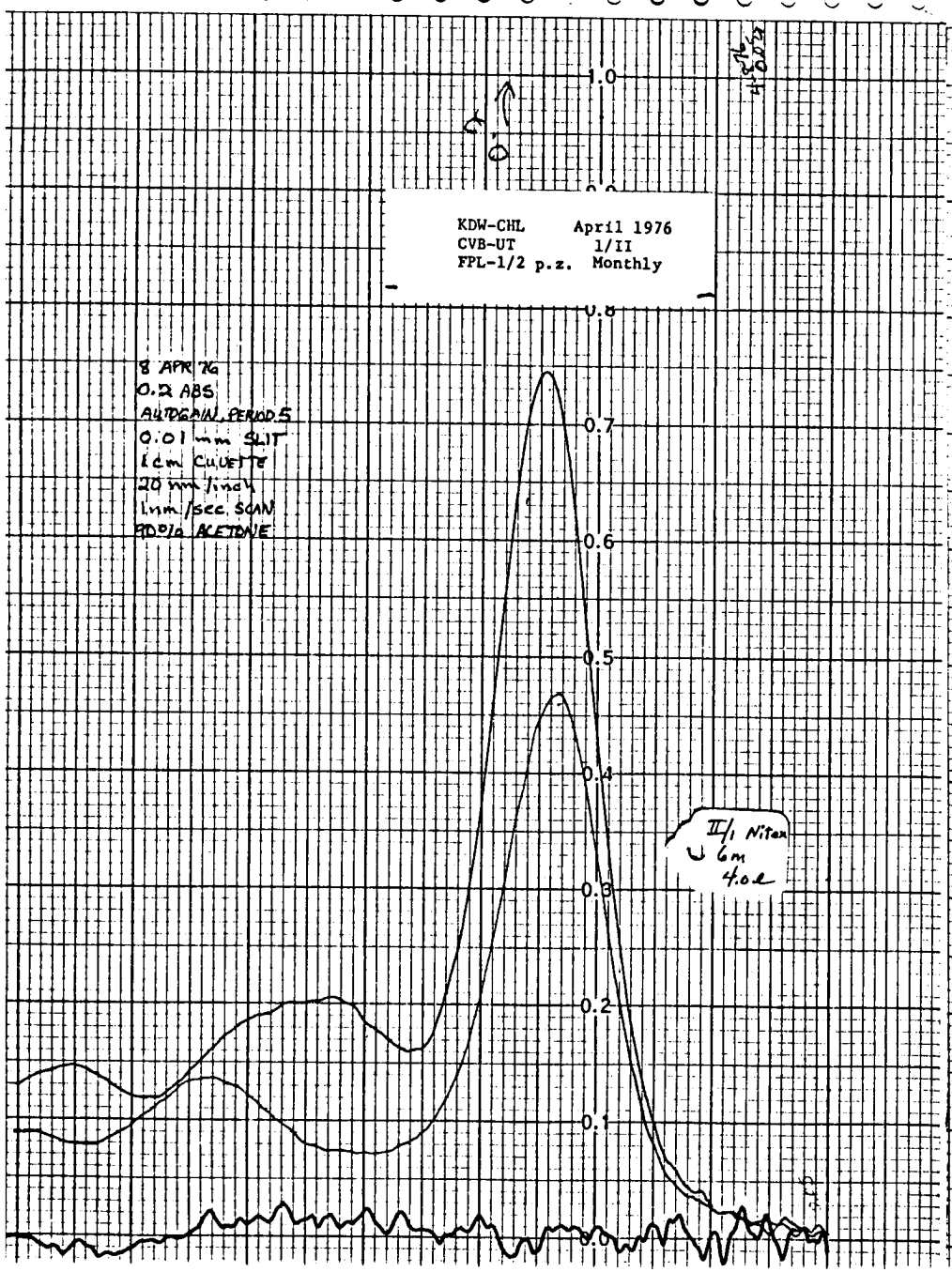
308 cary instruments/a varian subsidiary CHART NO. 12550

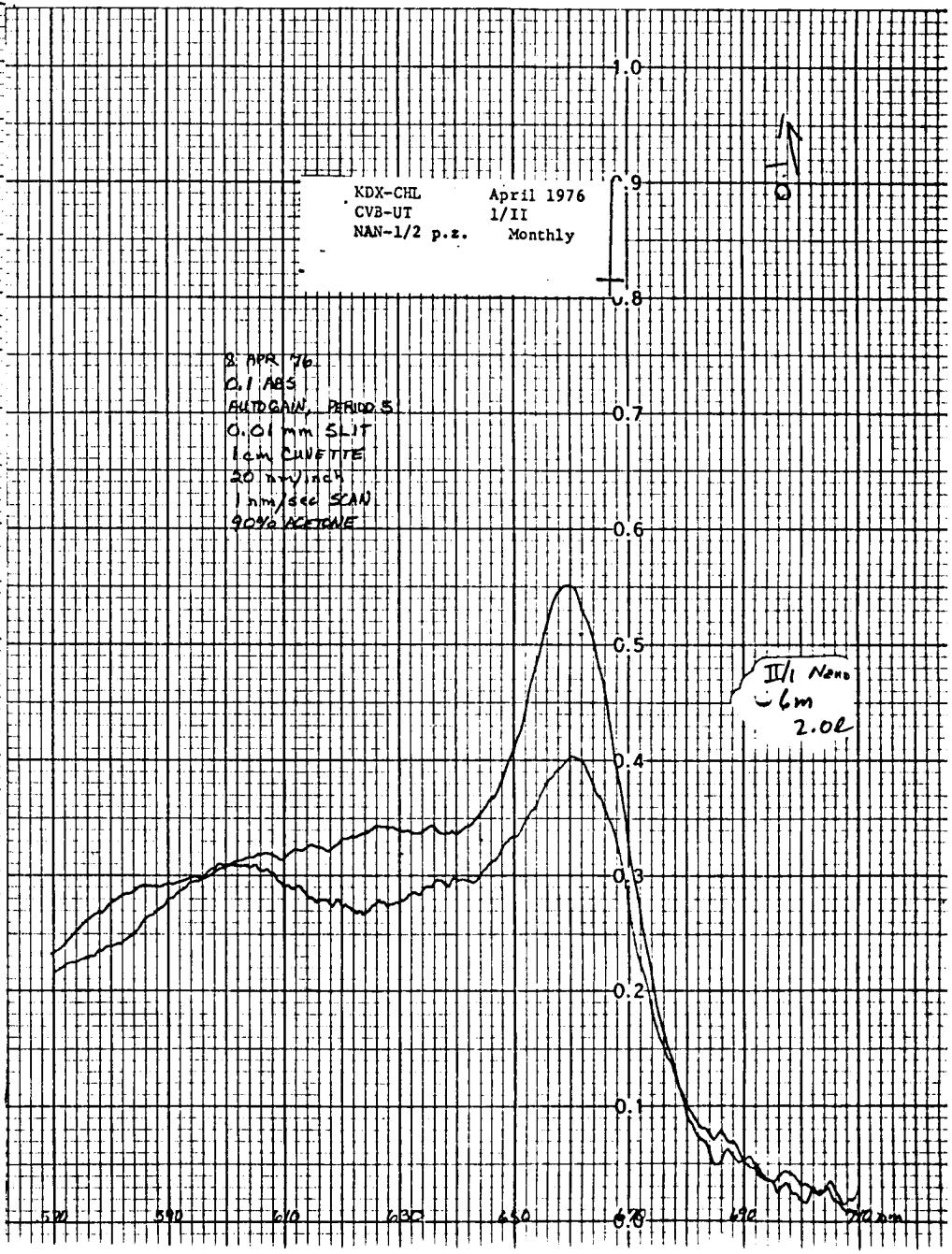


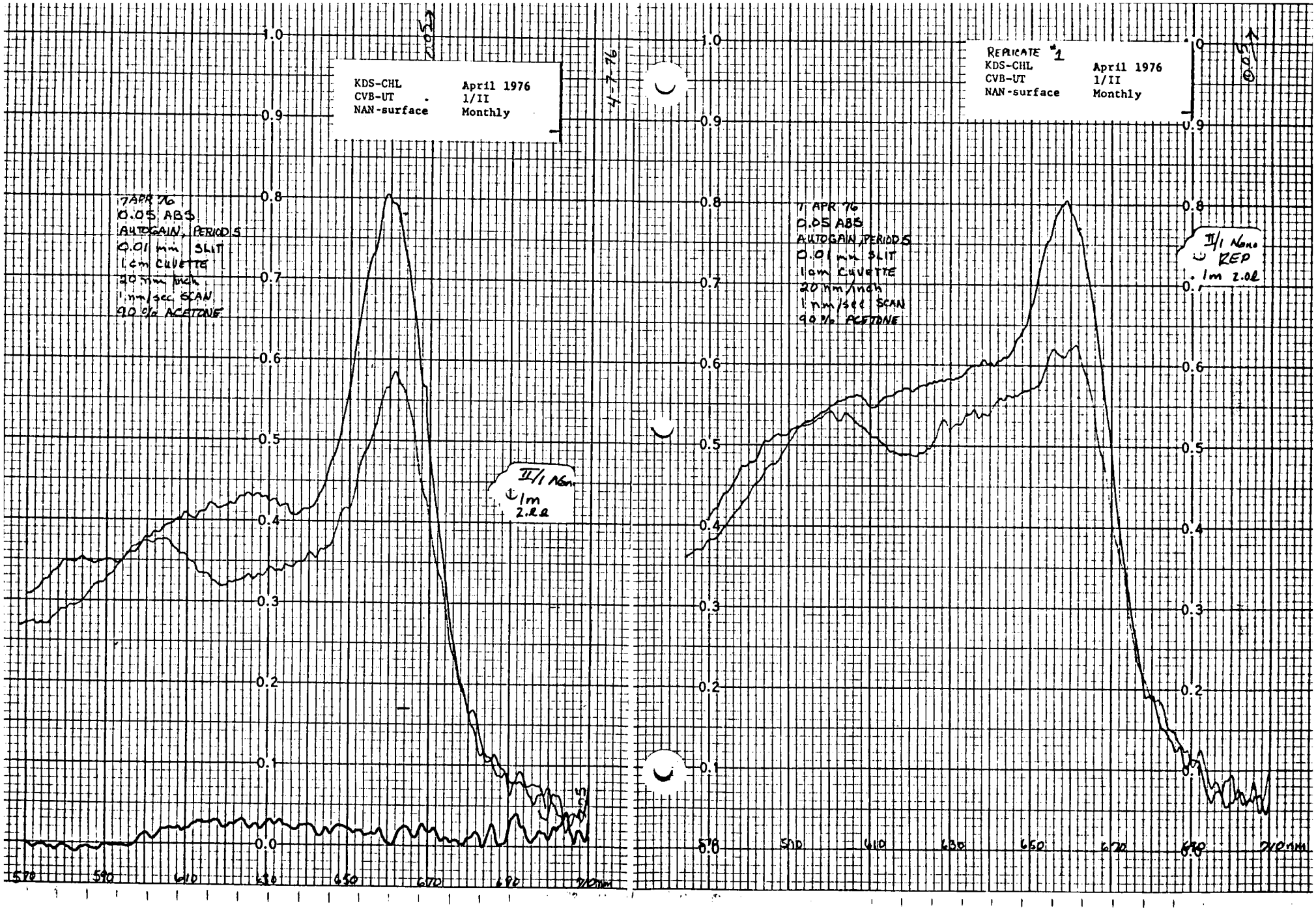


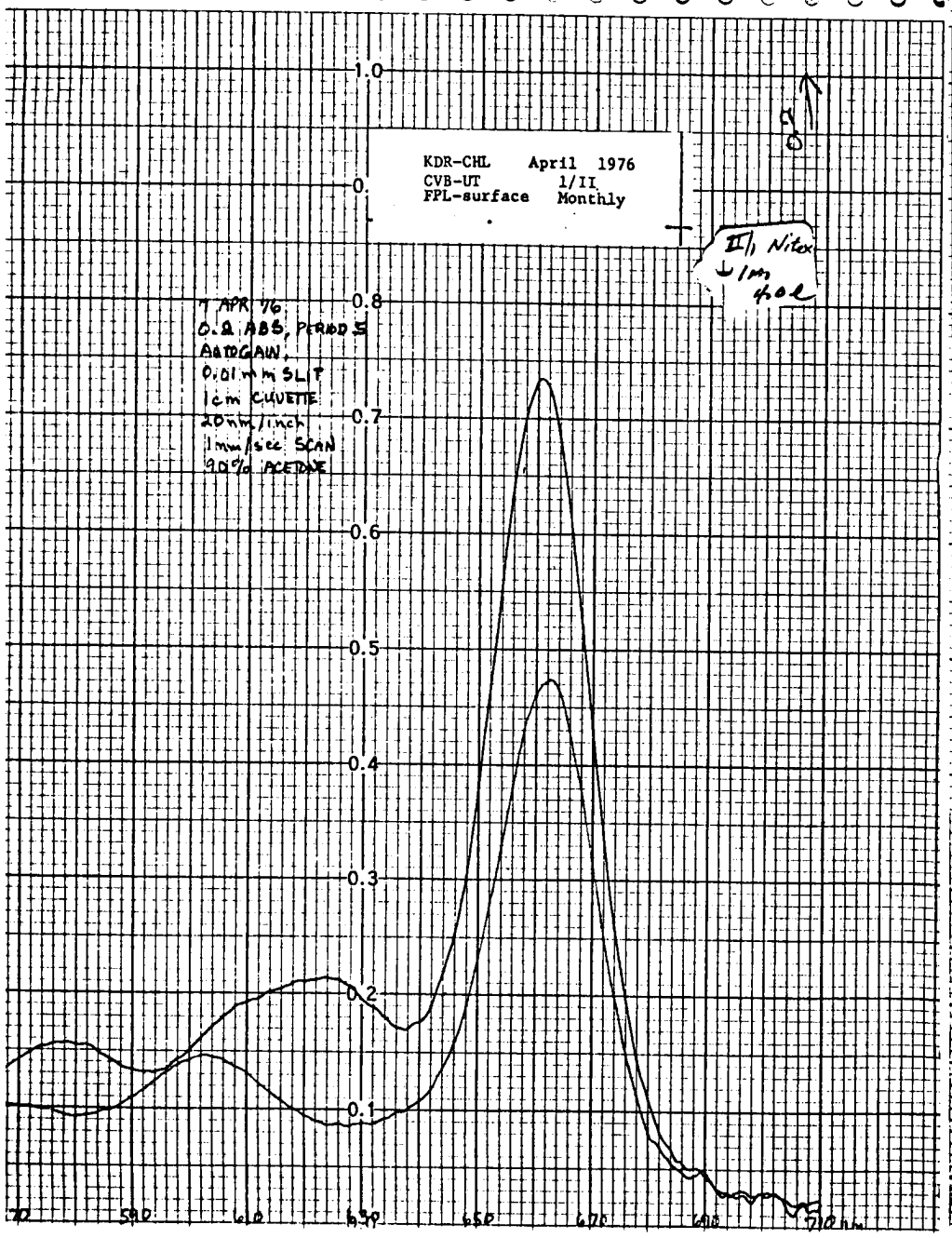

KEB-CHL
CVB-UT
FPL-bottom
April 1976
1/II
monthly
8 APR 76
0.2 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
II/1 Nitex
18m
4.0 l
UV EMISSION AT 656 nm
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
650
660
550
570
610
630
650
670
690
710 nm

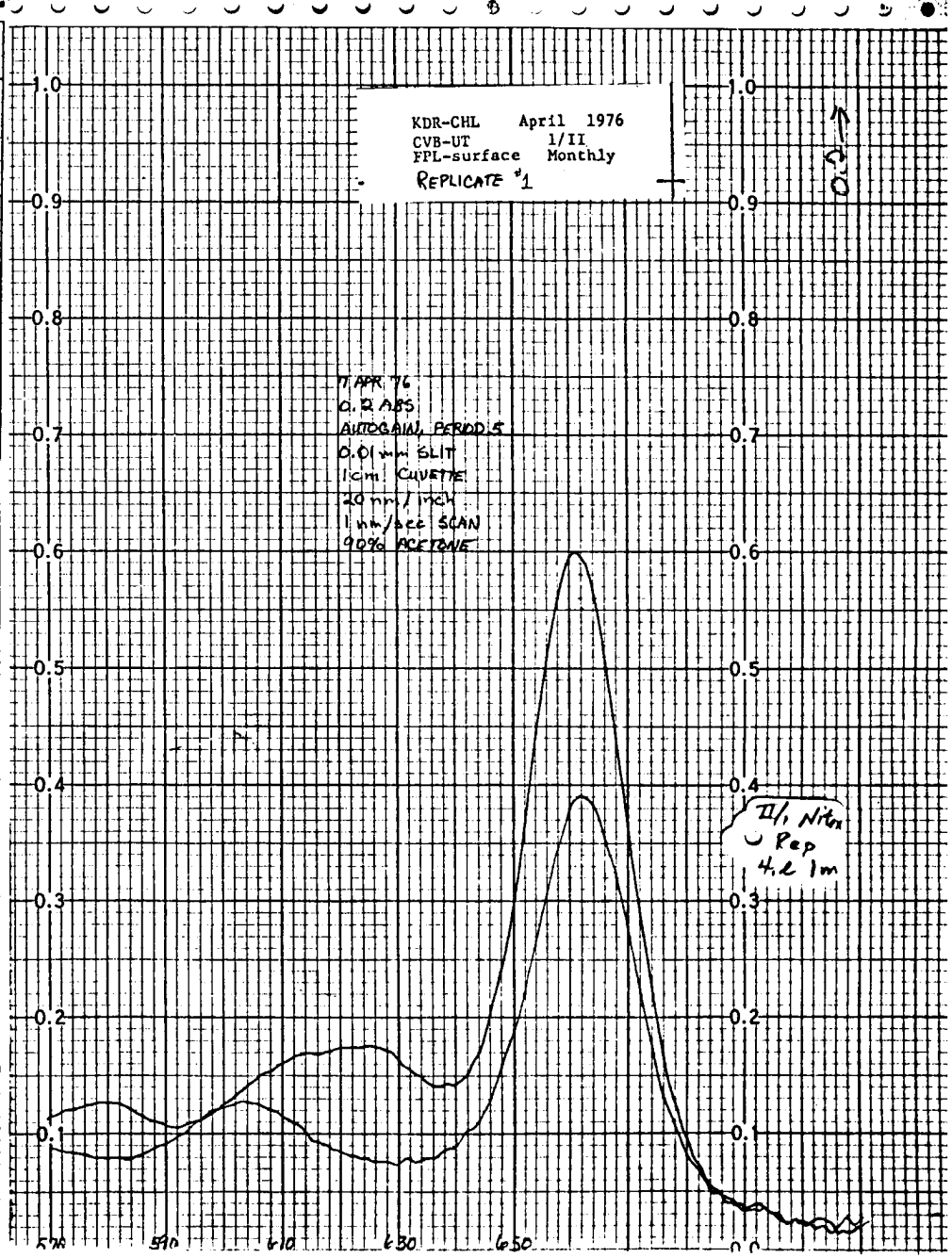


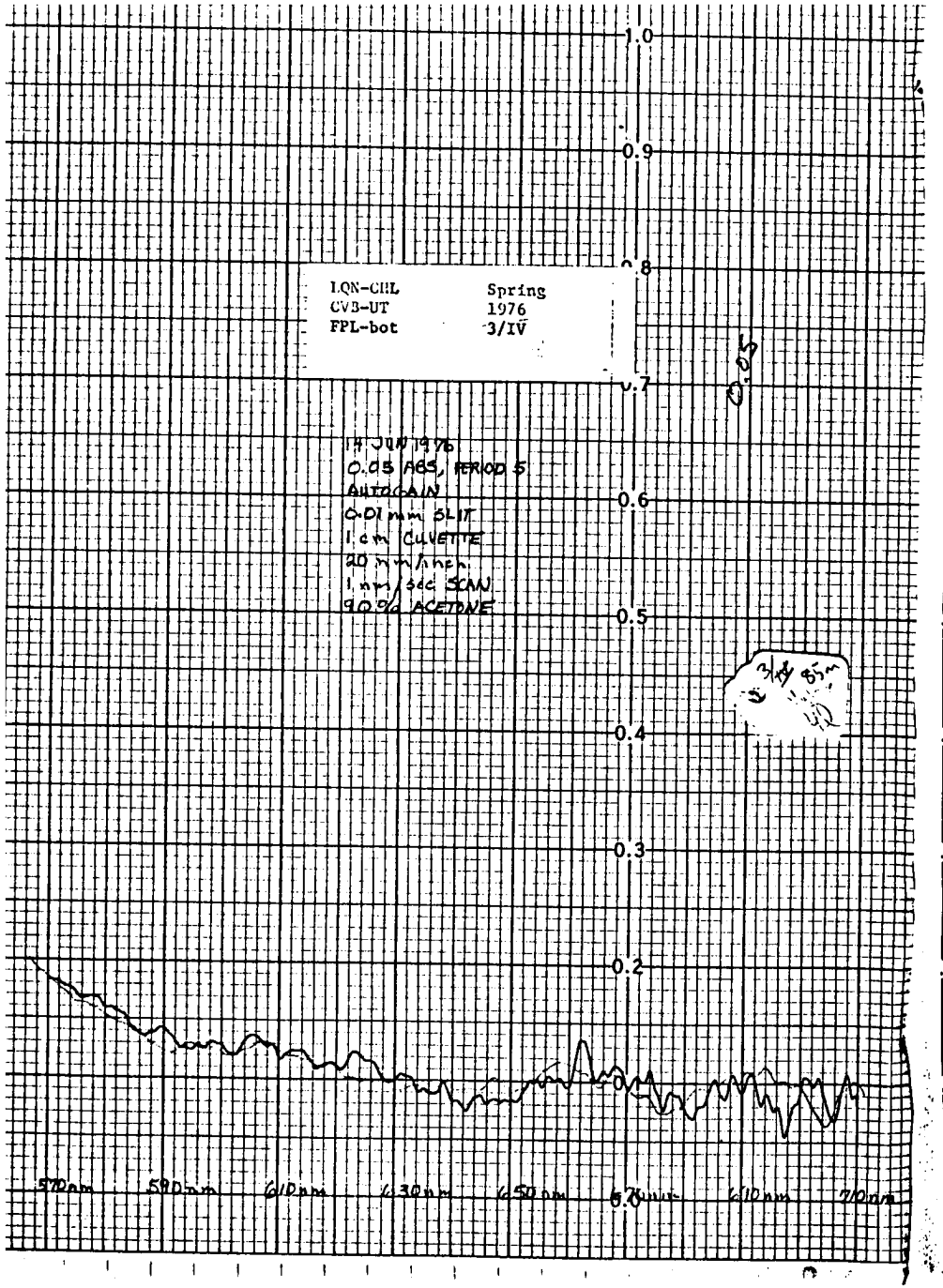
a varian subsidiary CHART NO. 12550 PRINTED IN U.S.A.




KDS-CHL
CVB-UT
NAN-surface
April 1976
1/II
Monthly
7 APR 76
0.05 ABS
AUTOGAIN, PERIODS
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
II/1 None
1m
2.2 Q
4-7-76
REPLICATE #1
KDS-CHL
CVB-UT
NAN-surface
April 1976
1/II
Monthly
11 APR 76
0.05 ABS
AUTOGAIN, PERIODS
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
II/1 None
REP
1m
2.0 Q
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710nm


KDR-CHL April 1976
CVB-UT 1/II
FPL-surface Monthly
II/1 Nitex
1 Im
4.0 L
7 APR 76
0.2 ABS, PERIOD 5
AUTOGAIN,
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 mm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
590
610
630
650
670
690
710 nm


KDR-CHL April 1976
CVB-UT 1/II
FPL-surface Monthly
REPLICATE #1
7 APR 76
0.2 ABS
AUTOGAIN, PERIOD 5
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 mm/sec SCAN
90% ACETONE
II/1 Nitex
Rep
4.0 Im
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
590
610
630
650


LQN-CHL Spring
CVB-UT 1976
FPL-bot 3/IV
14 JUN 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1 cm CUVETTE
20 mm/inch
1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590nm
610nm
630nm
650nm
670nm
710nm

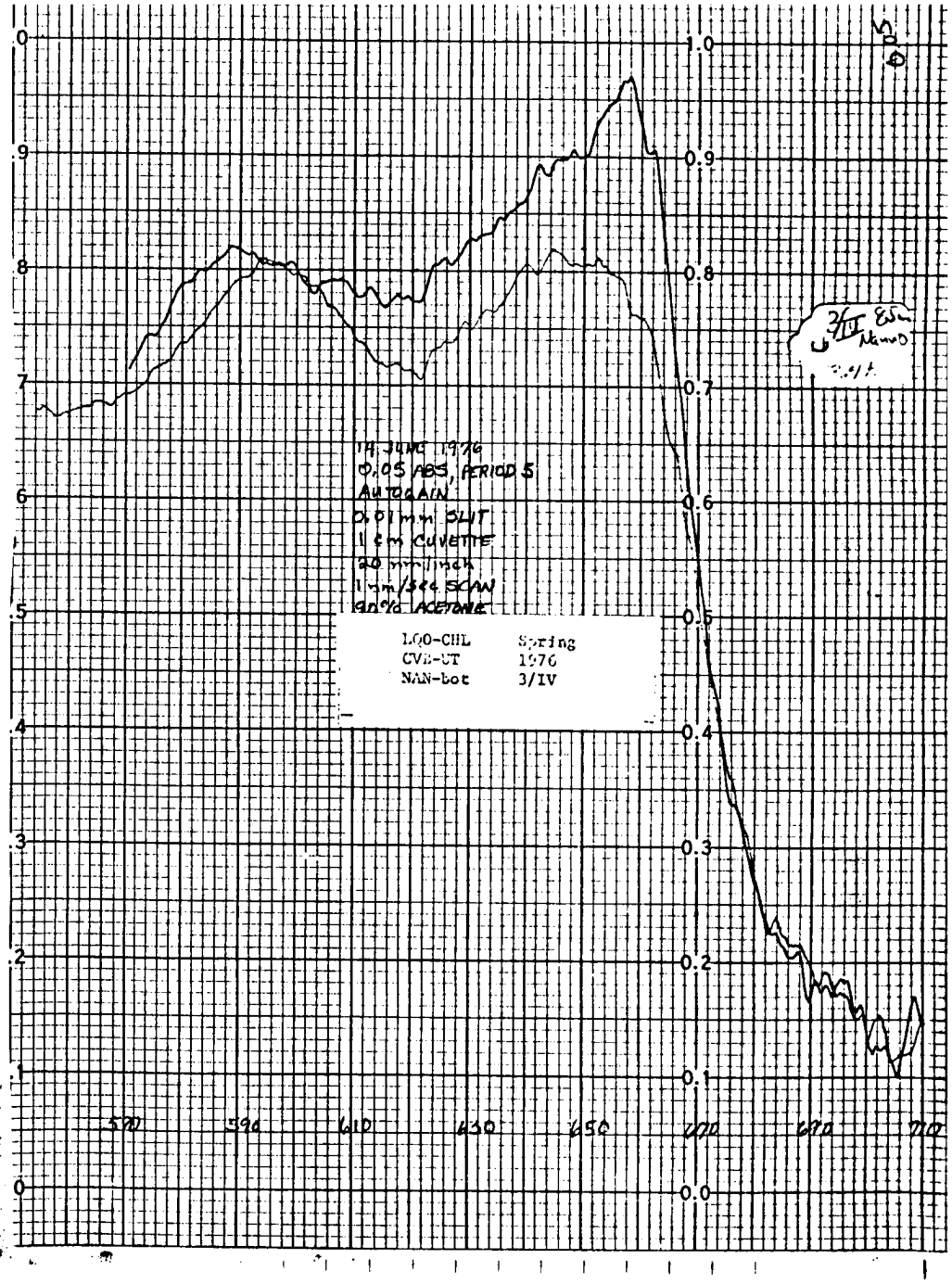

14 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1 cm CUVETTE
20 mm/inch
1 nm/sec SCAN
90% ACETONE
LQO-CHL Spring
CVB-UT 1976
NAN-bot 3/IV
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
610
630
650
670
710

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CHART NO. 12550

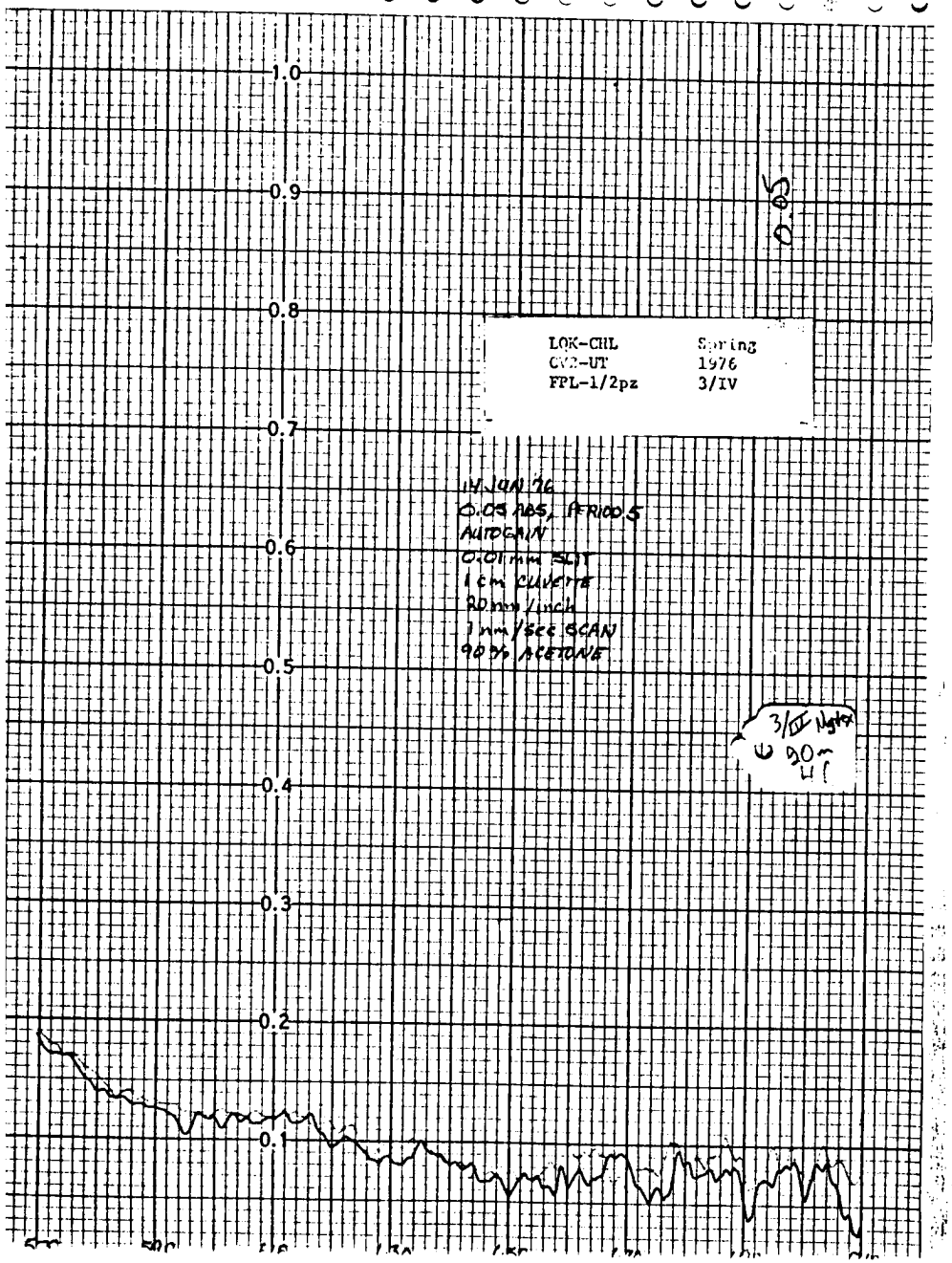

CHART NO. 12550

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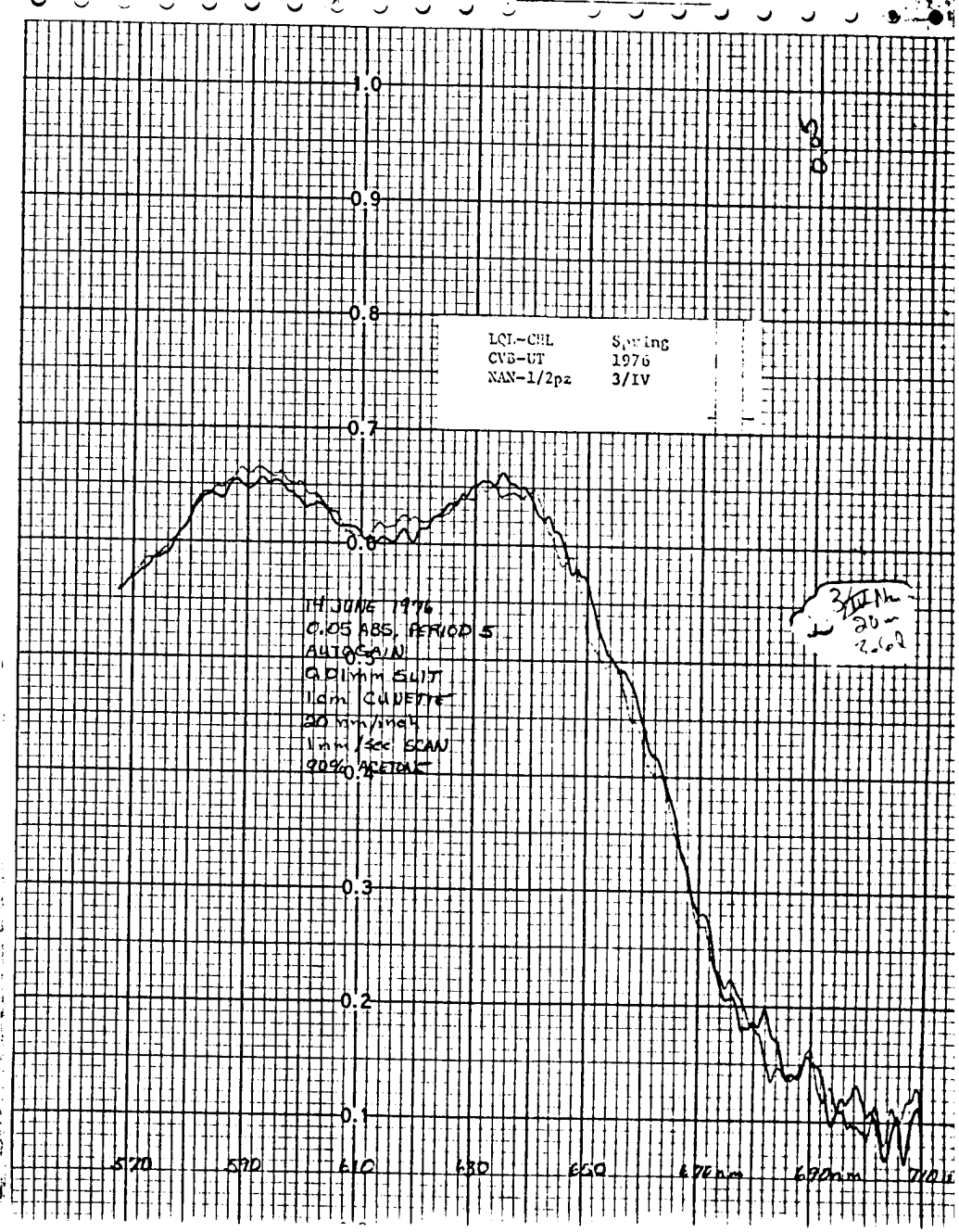

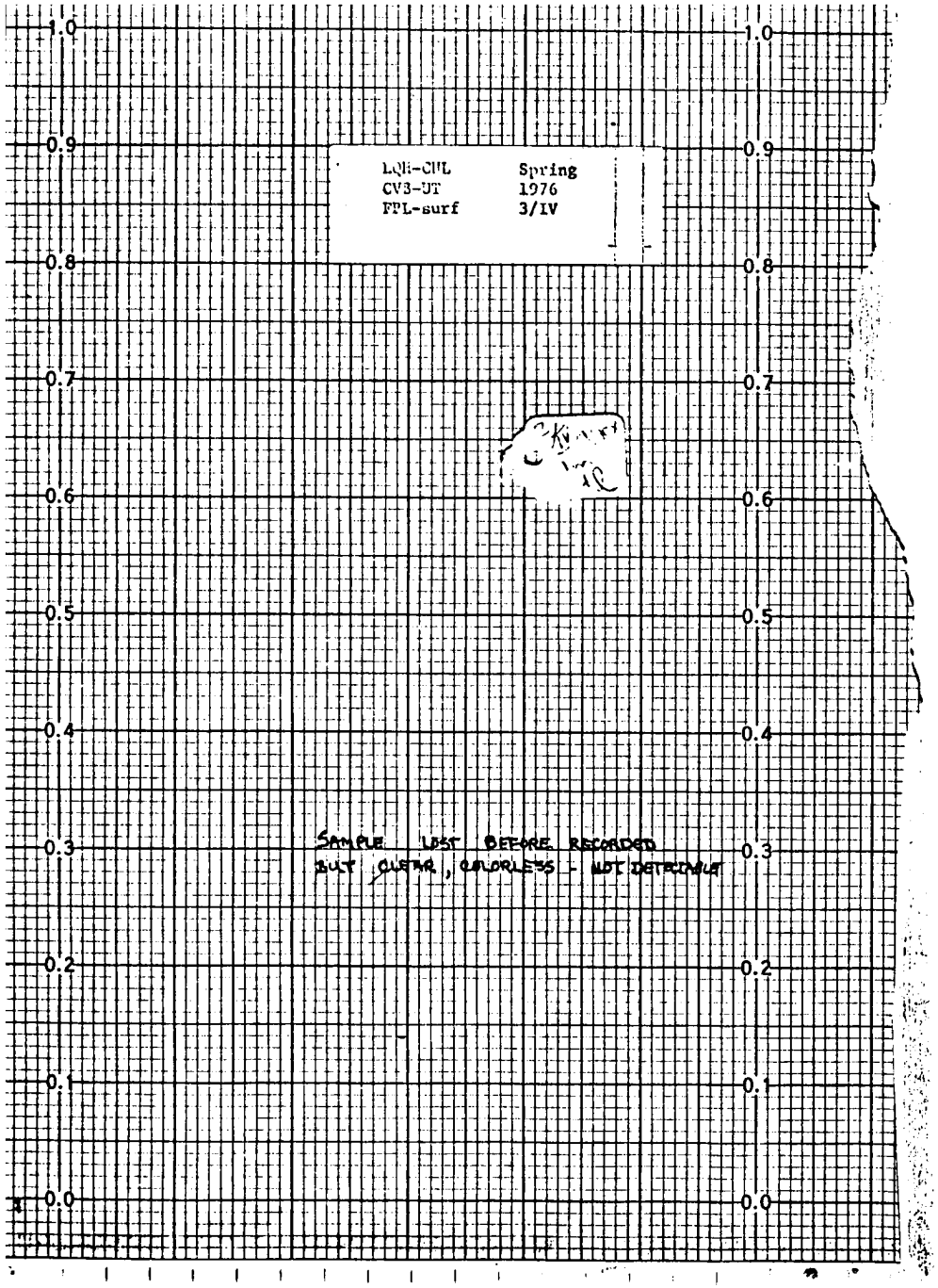
LQI-CHL Spring
CV3-UT 1976
FFL-surf 3/IV
SAMPLE LOST BEFORE RECORDED
BUT CLEAR, COLORLESS - NOT DETECTABLE

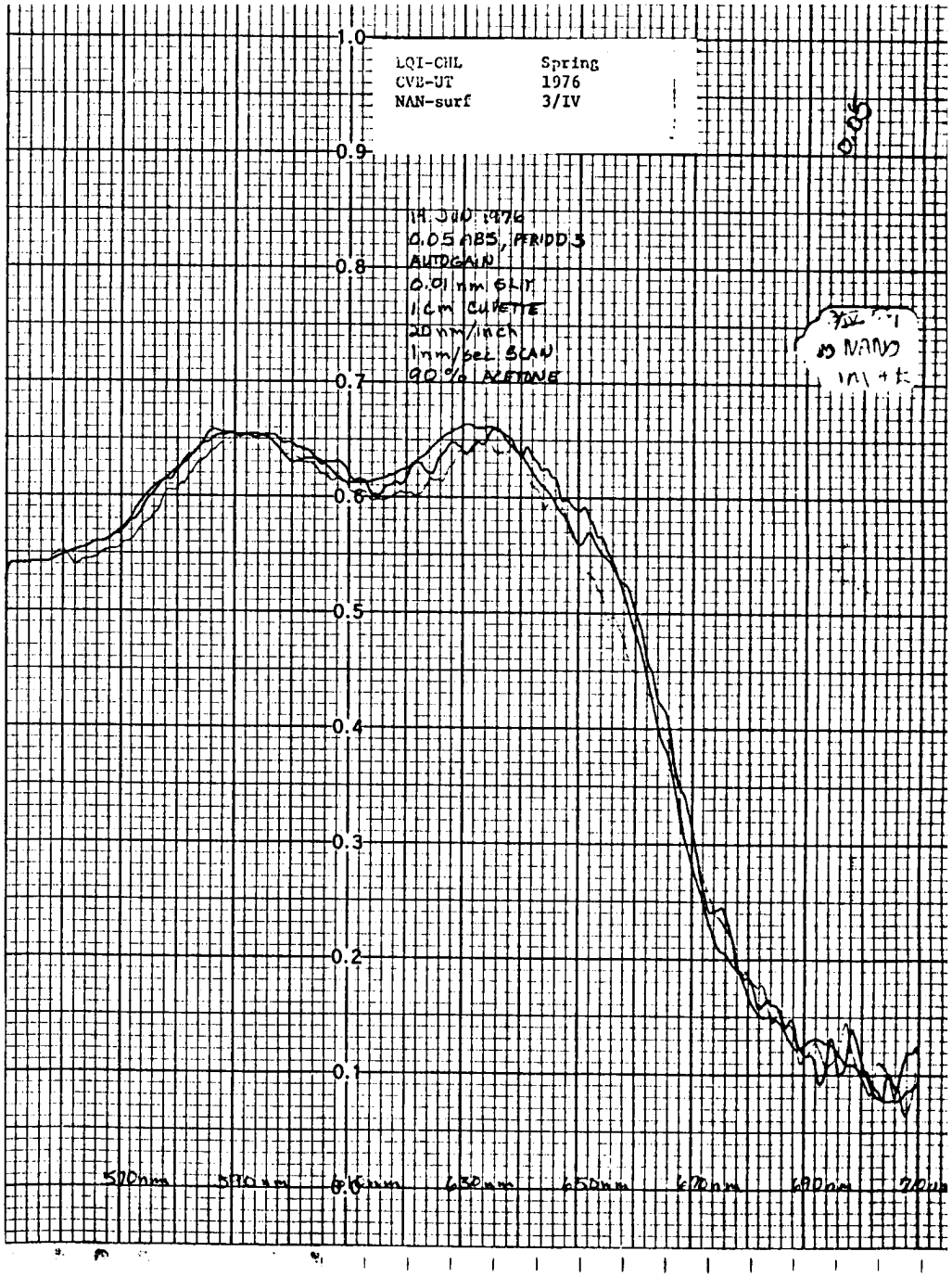
LQI-CHL Spring
CV2-UT 1976
NAN-surf 3/IV
0.05
0.05 ABS, PERIOD 3
AUTOGAIN
0.01 nm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
500nm
650nm
690nm

CHART NO. 12550

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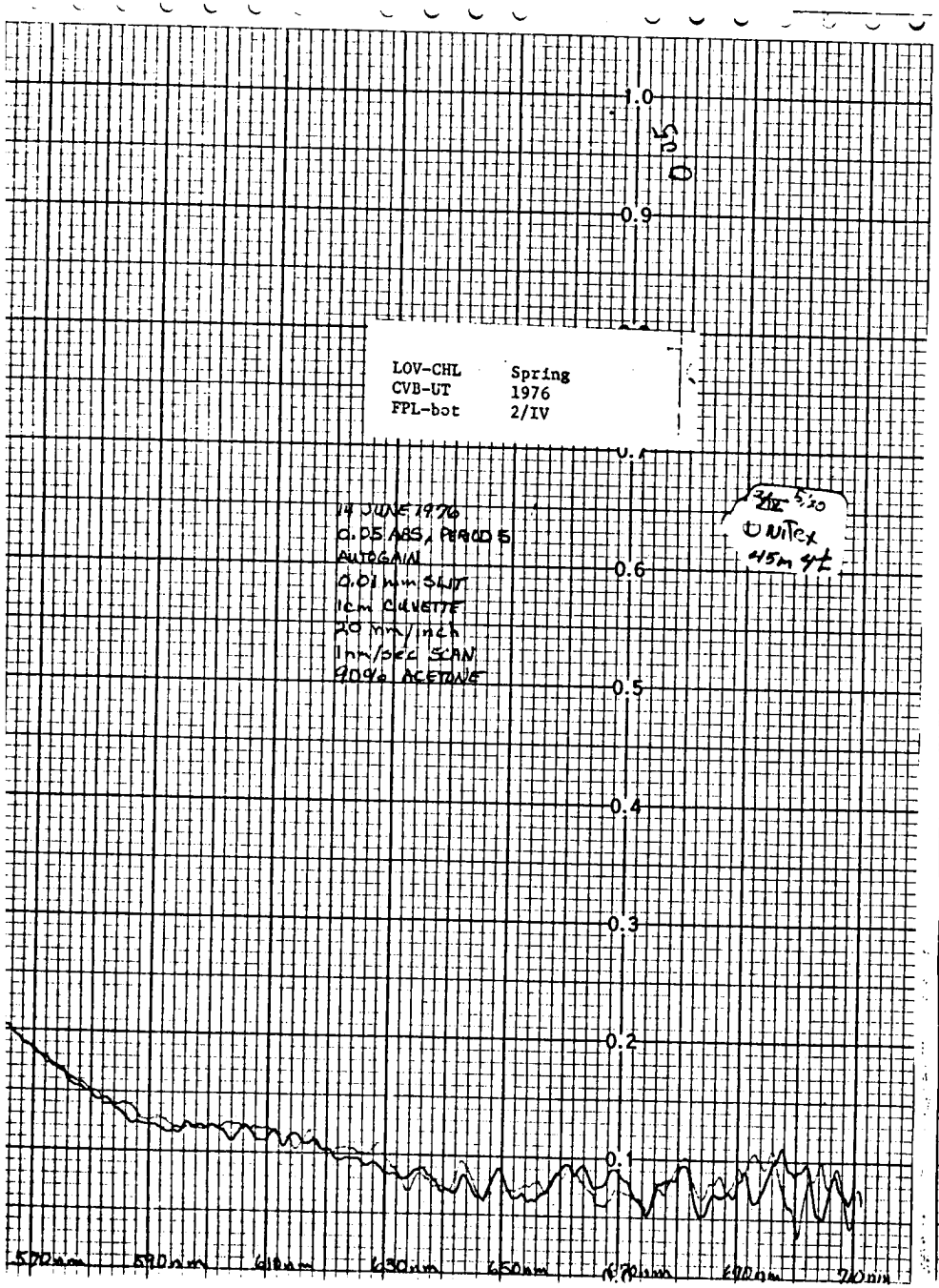
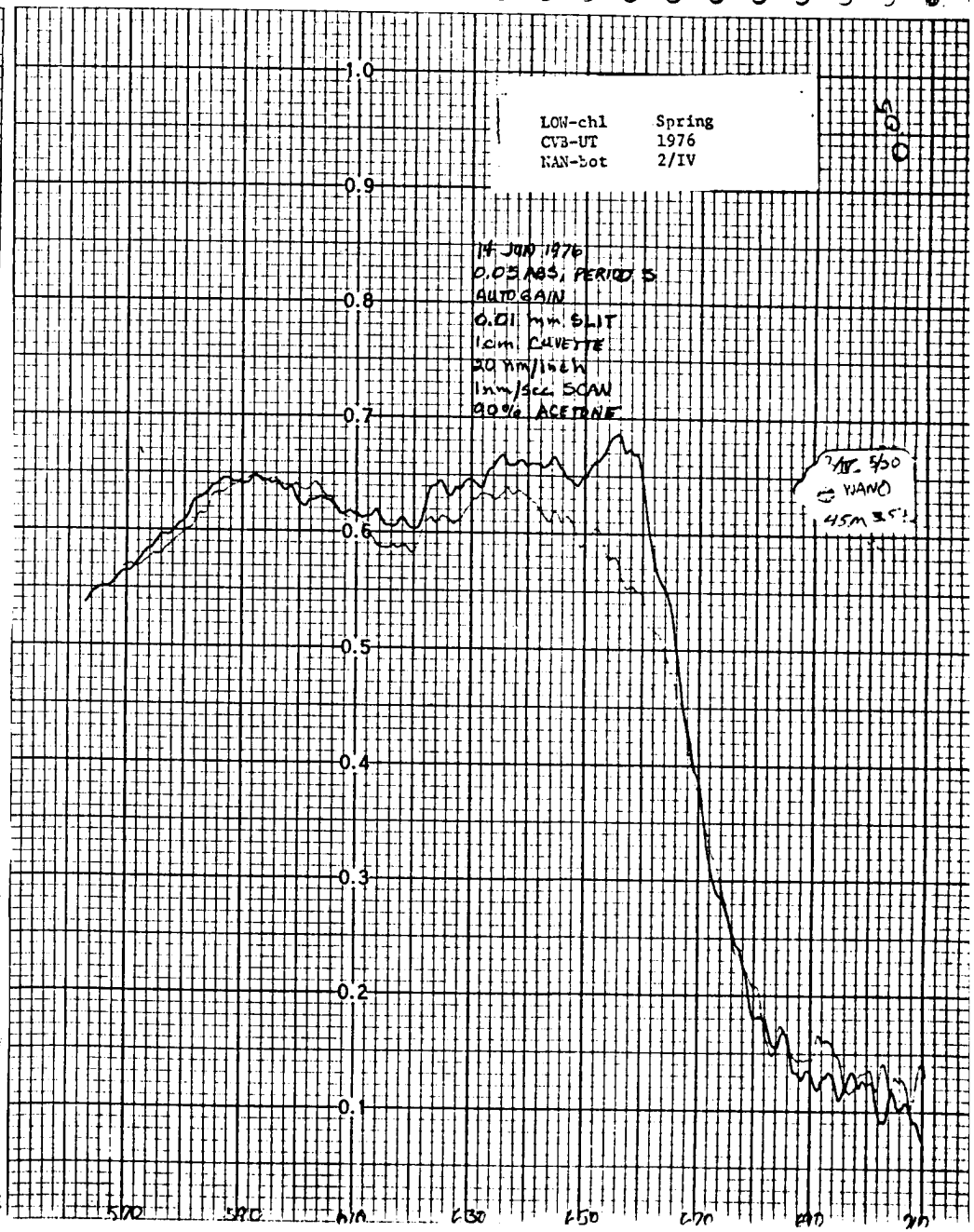
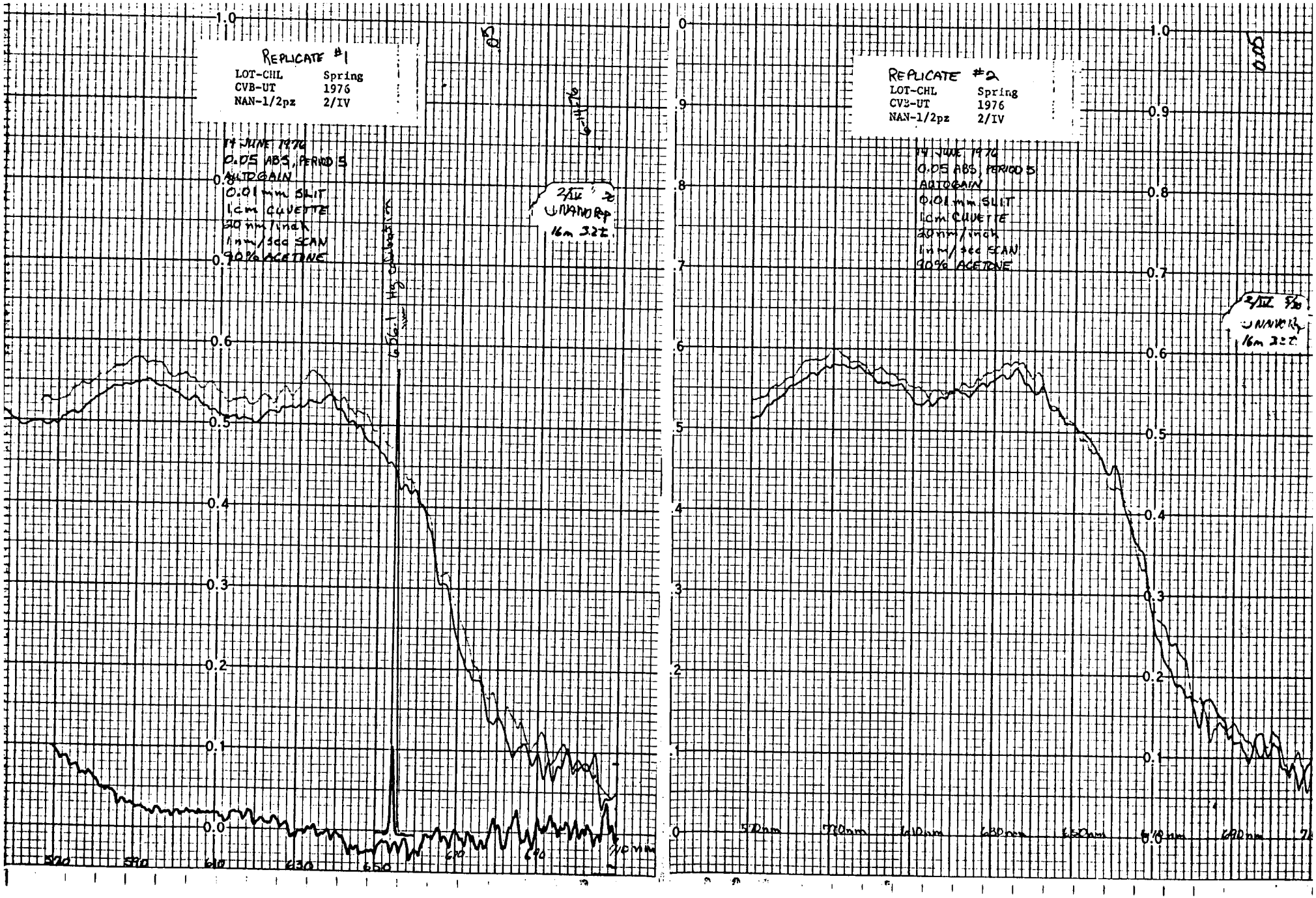
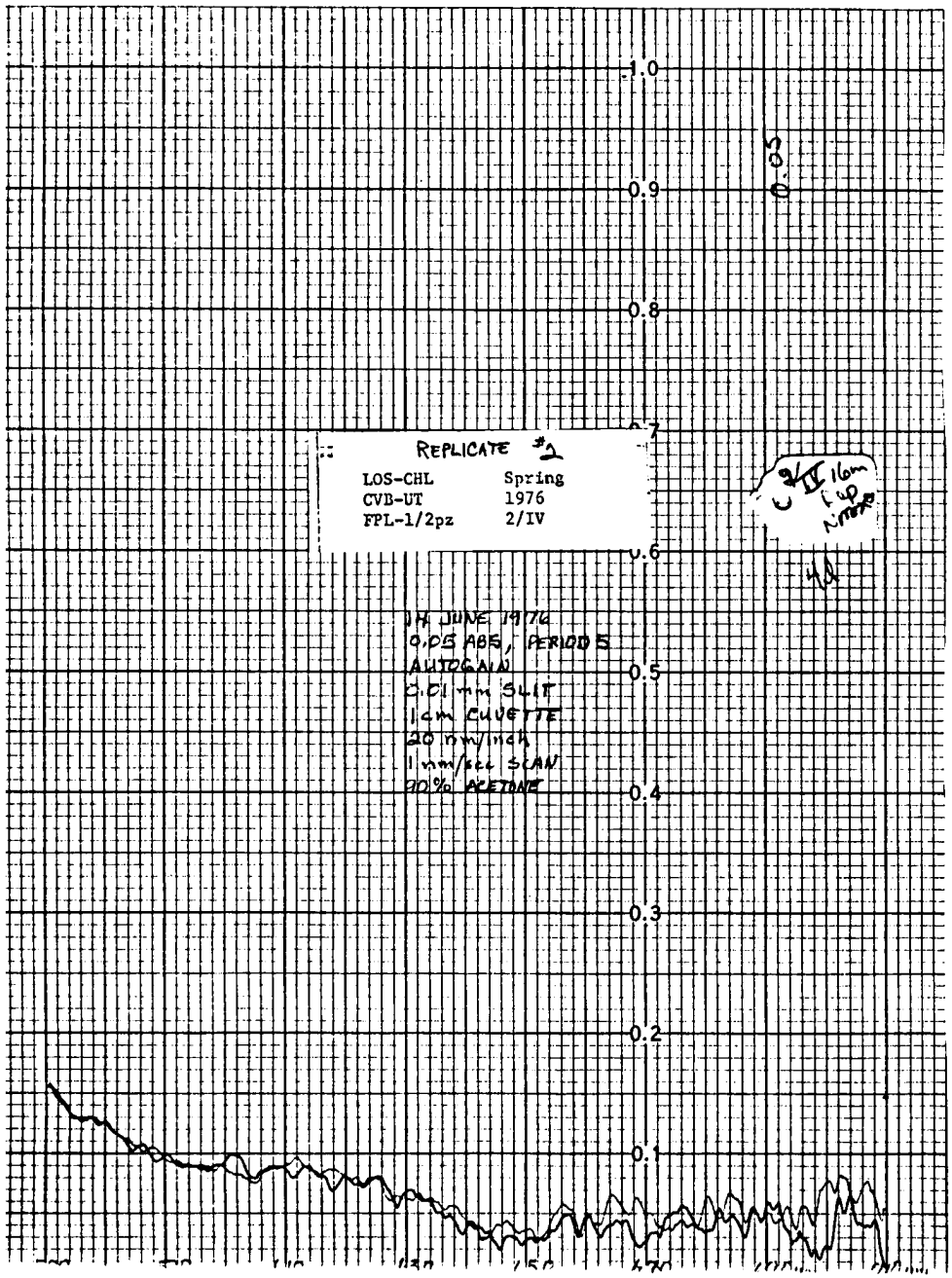
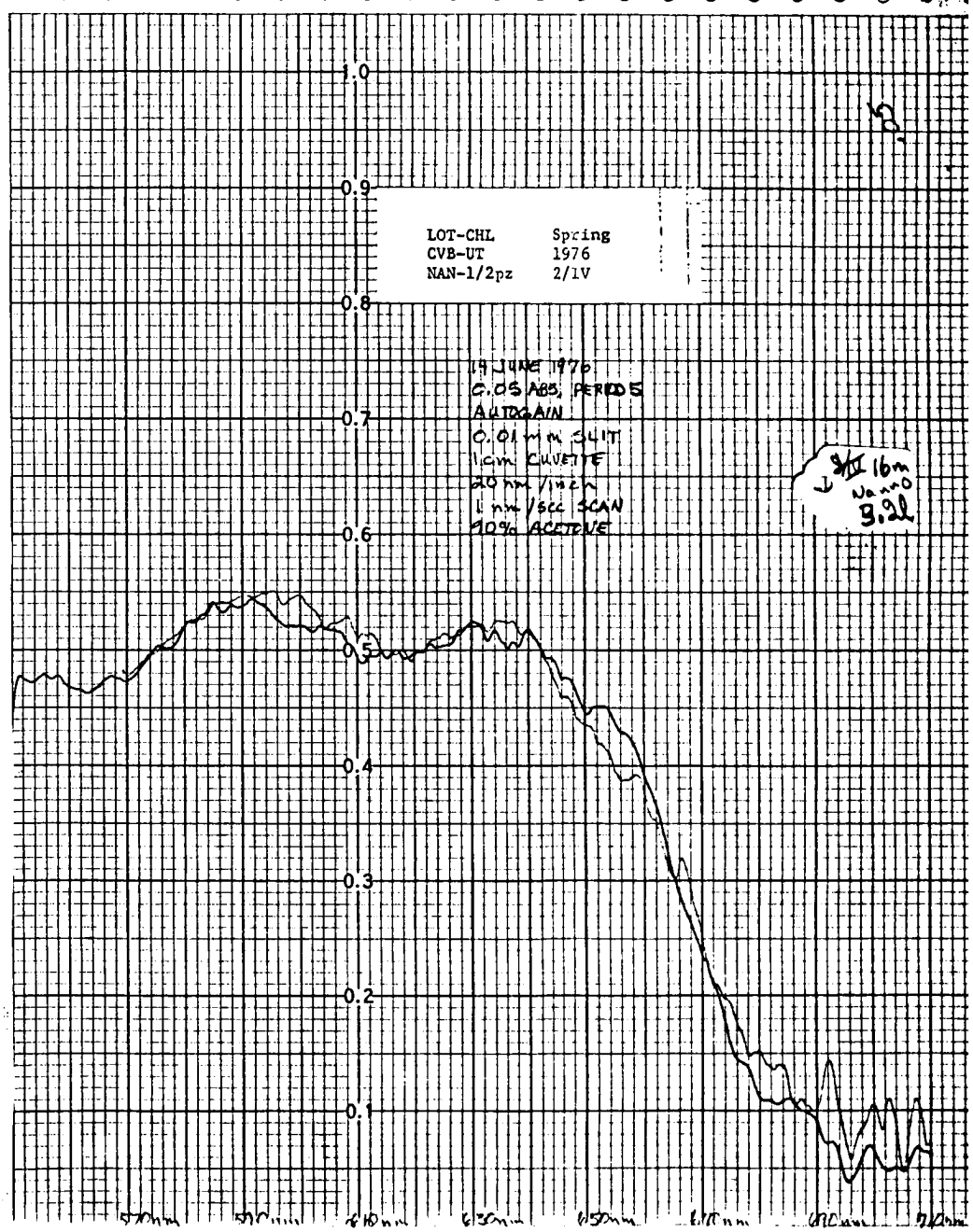


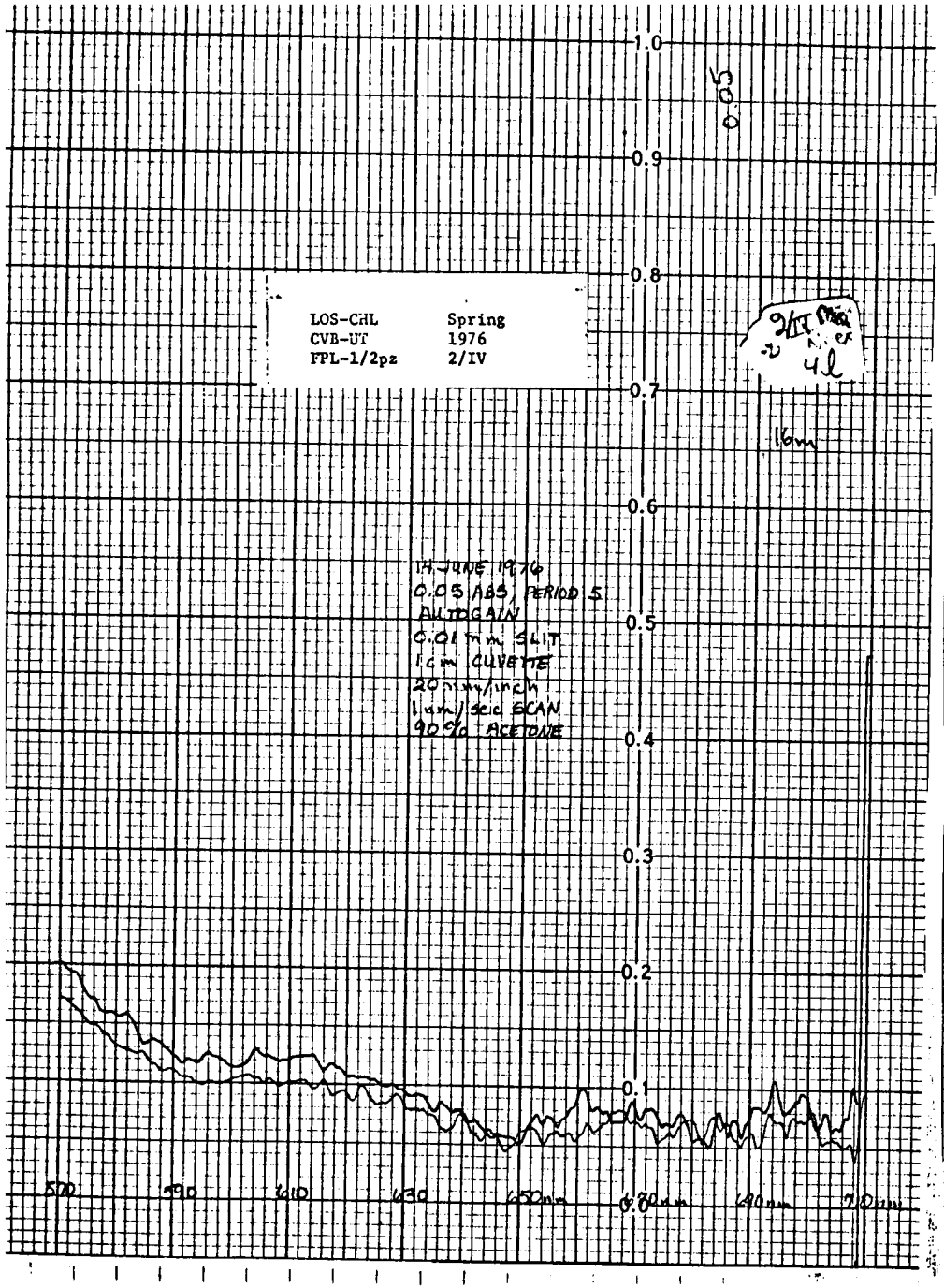
CHART NO. 12550




REPLICATE #1
LOT-CHL Spring
CVB-UT 1976
NAN-1/2pz 2/IV
14 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
656.1 Hg
REPLICATE #2
LOT-CHL Spring
CVB-UT 1976
NAN-1/2pz 2/IV
14 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE


1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
REPLICATE #2
LOS-CHL Spring
CVB-UT 1976
FPL-1/2pz 2/IV
18 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE


1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
LOT-CHL Spring
CVB-UT 1976
NAN-1/2pz 2/IV
18 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE


LOS-CHL Spring
CVB-UT 1976
FPL-1/2pz 2/IV
14 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
500
590
610
630
650nm
680nm
690nm
710nm

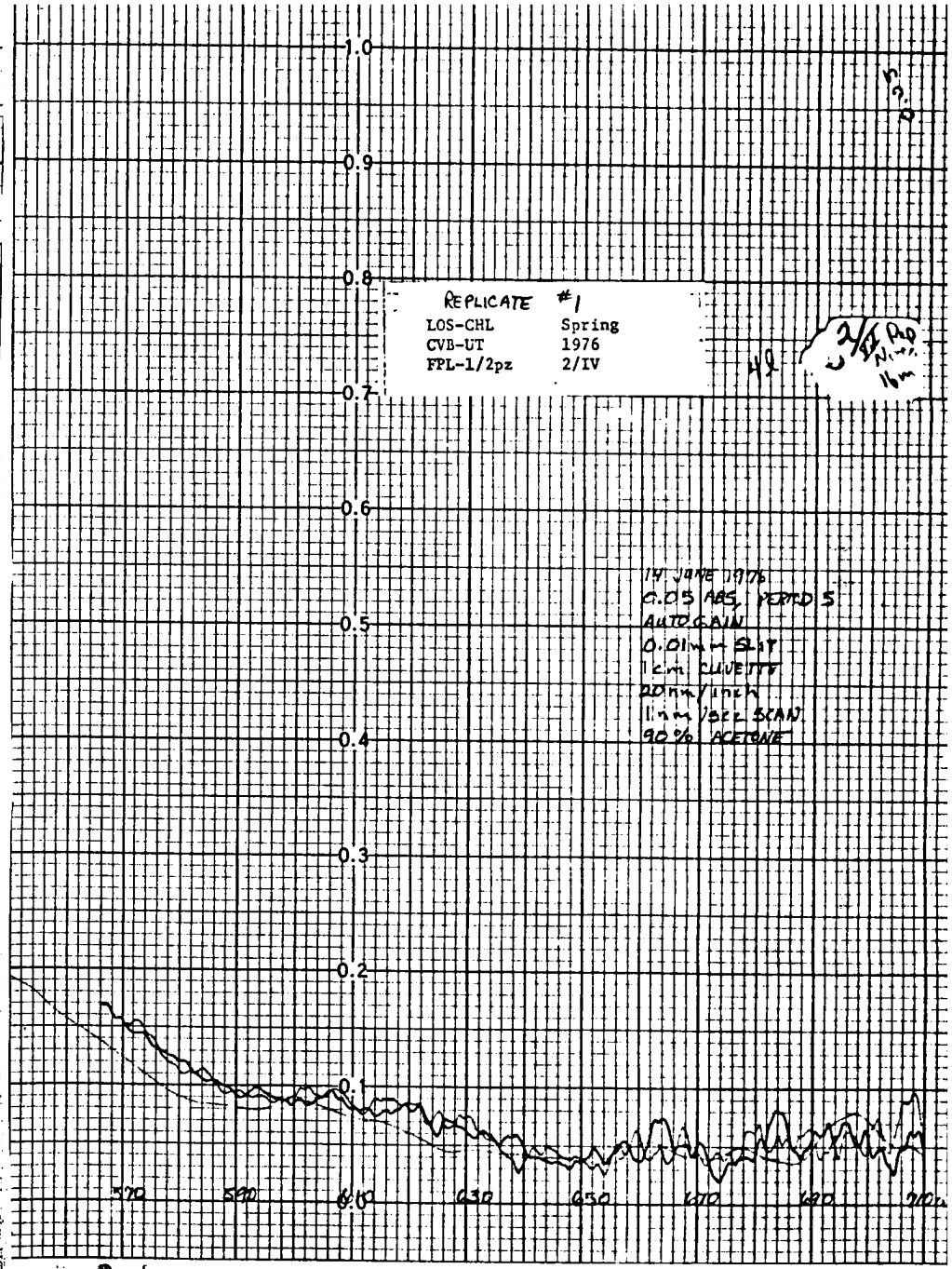

REPLICATE #1
LOS-CHL Spring
CVB-UT 1976
FPL-1/2pz 2/IV
14 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710

CHART NO. 12550 PRINTED IN U.S.A.

LOQ-CHL Spring
CVB-UT 1976
NAN-surf 2/IV

14 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1 cm CUVETTE
20 mm/inch
1 mm/sec SCAN
90% ACETONE

2/IV 5/30
UNANO
1m

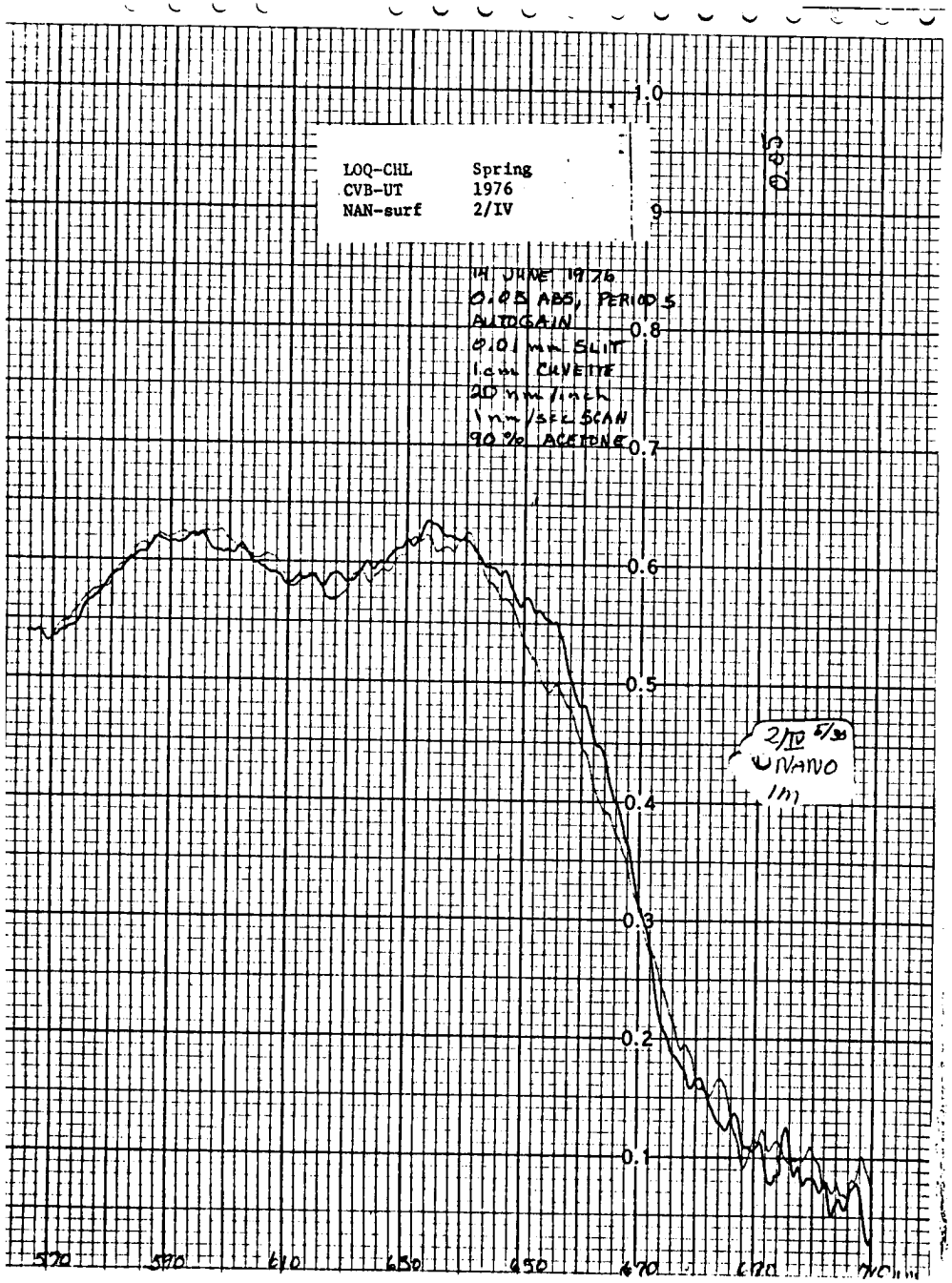


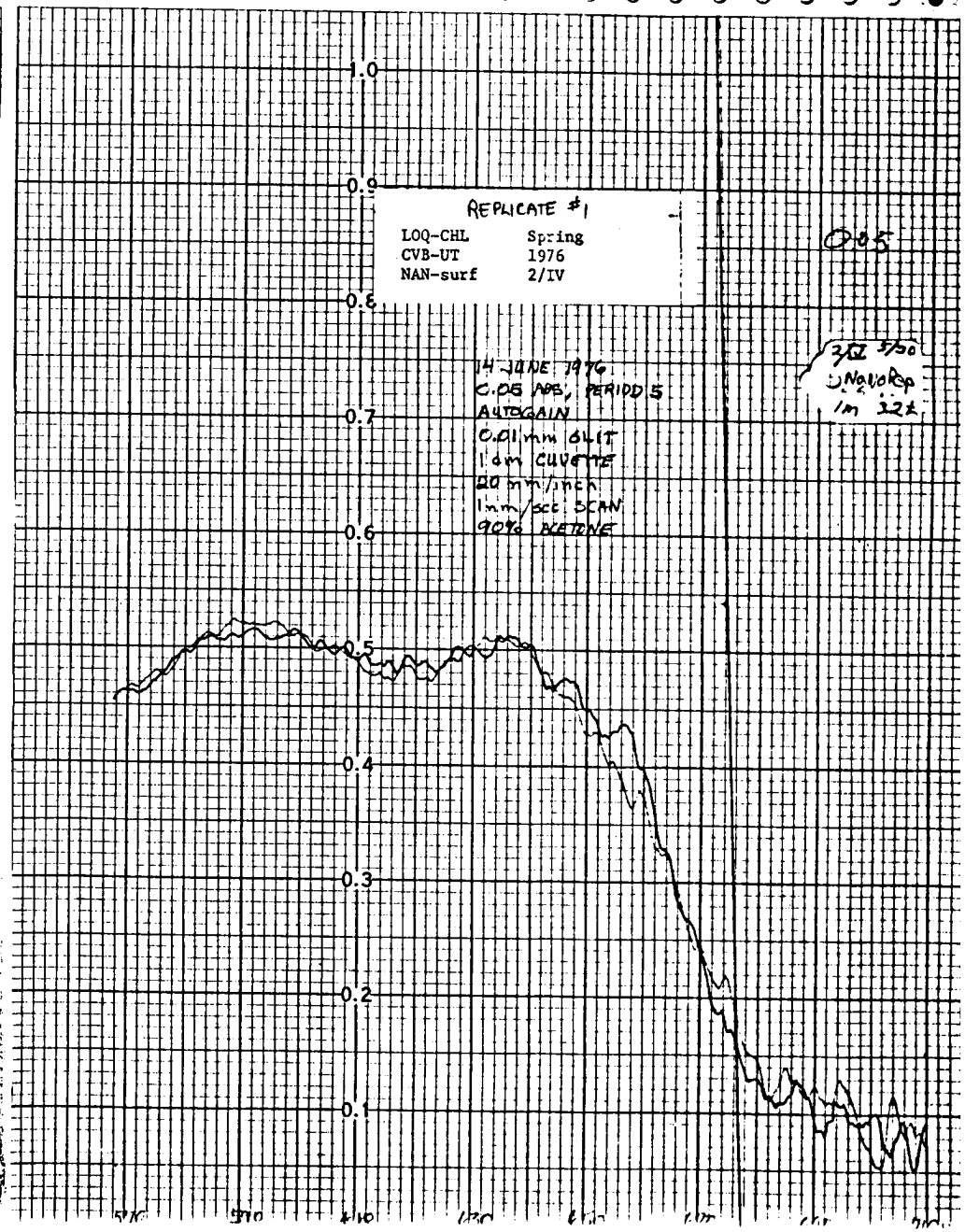
CHART NO. 12550 PRINTED IN U.S.A.

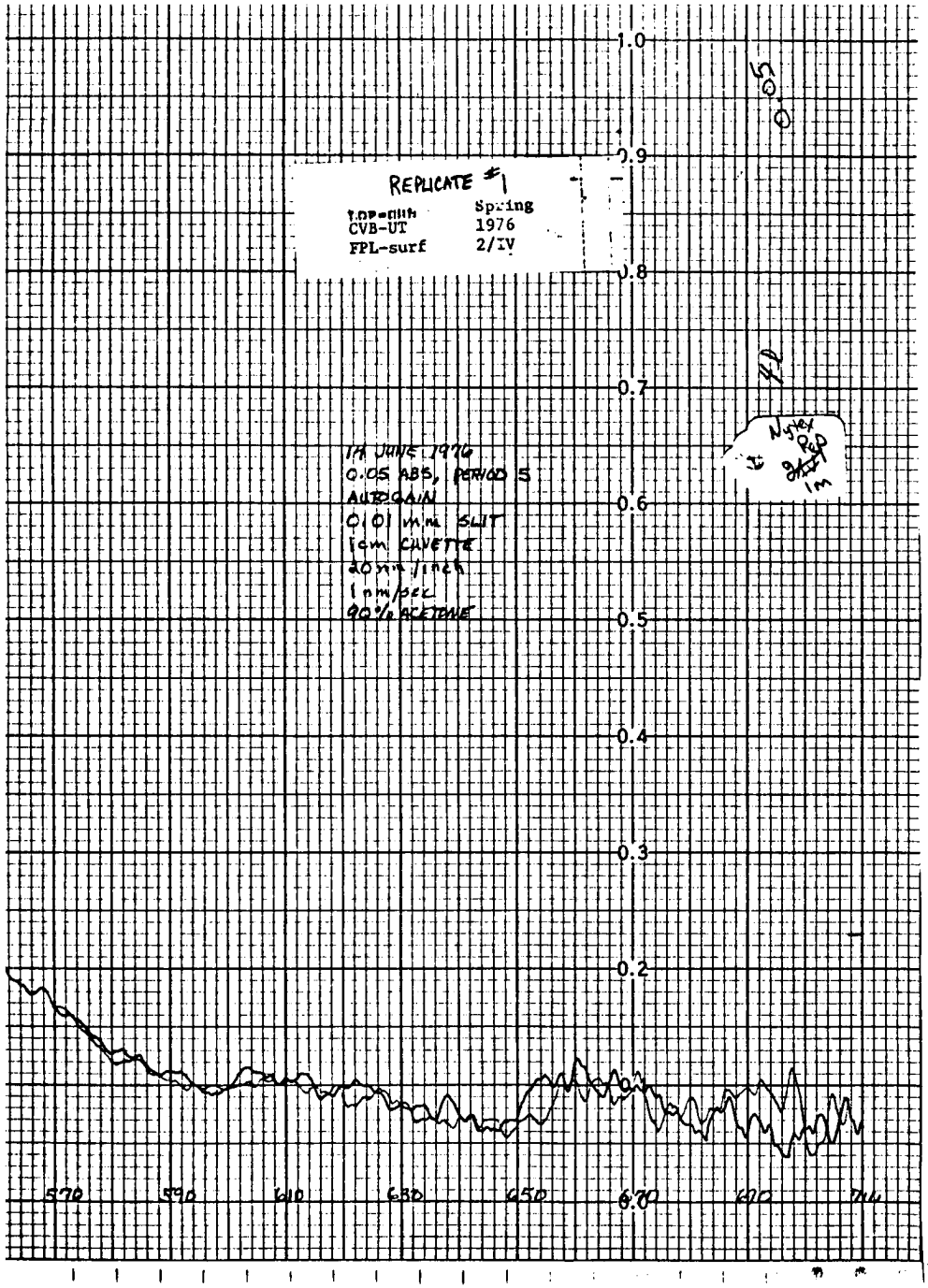
REPLICATE #1
LOQ-CHL Spring
CVB-UT 1976
NAN-surf 2/IV

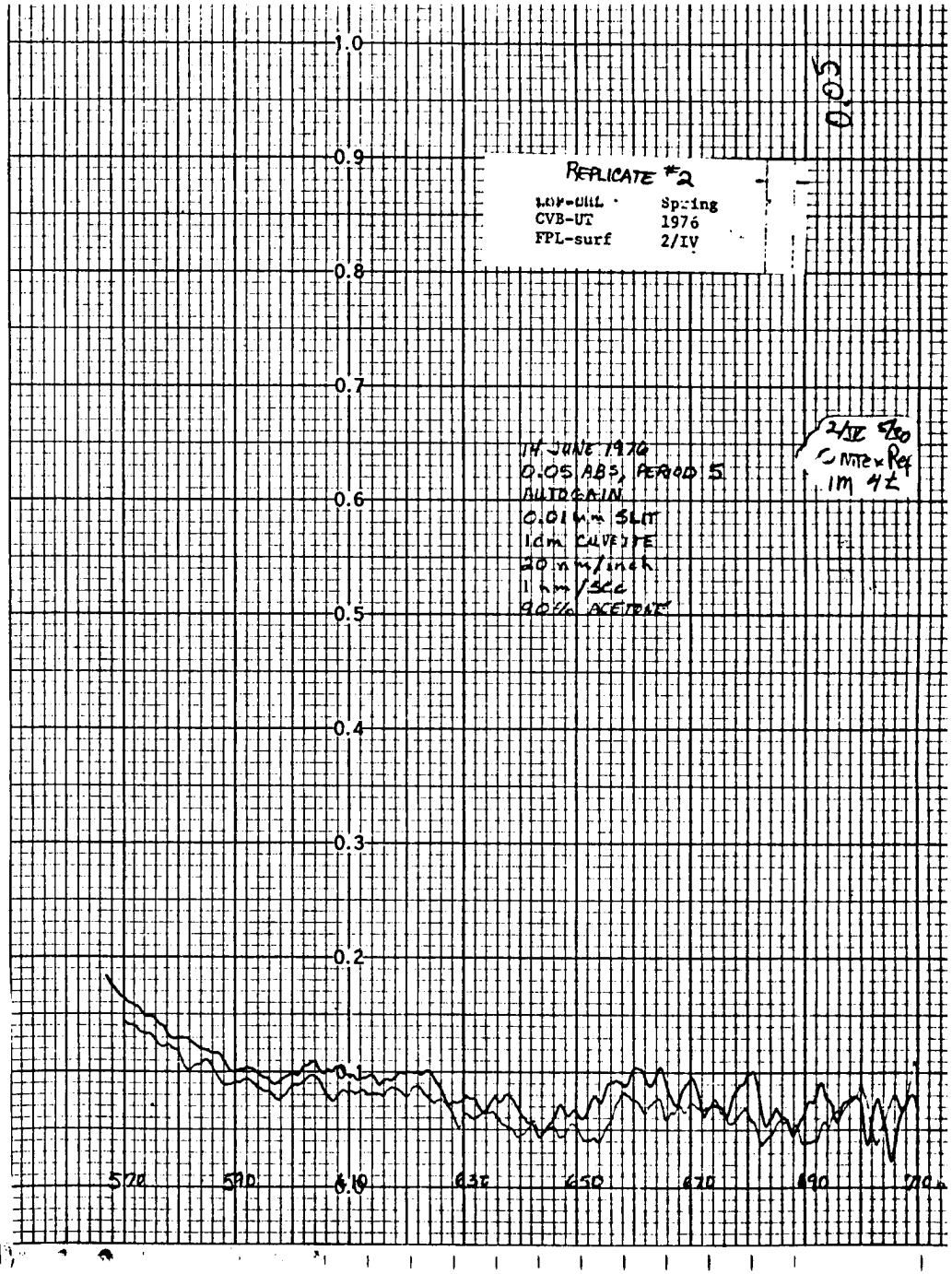
0.05

14 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1 cm CUVETTE
20 mm/inch
1 mm/sec SCAN
90% ACETONE

2/IV 5/30
UNANO
1m 22




REPLICATE #1
LDP-clin Spring
CVB-UT 1976
FPL-surf 2/IV
1H JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1cm CUVETTE
20nm/inch
1 nm/sec
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
570
590
610
630
650
670
690
710


REPLICATE #2
LDP-clin Spring
CVB-UT 1976
FPL-surf 2/IV
1H JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
570
590
610
630
650
670
690
710

cary instruments

LNH-CHL Spring
CVB-UT 1976
NAN-bot 1/IV

28 JUNE 1976
0.1 ABS, PERIOD 5
AUTOSCAN
0.02 m m SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE

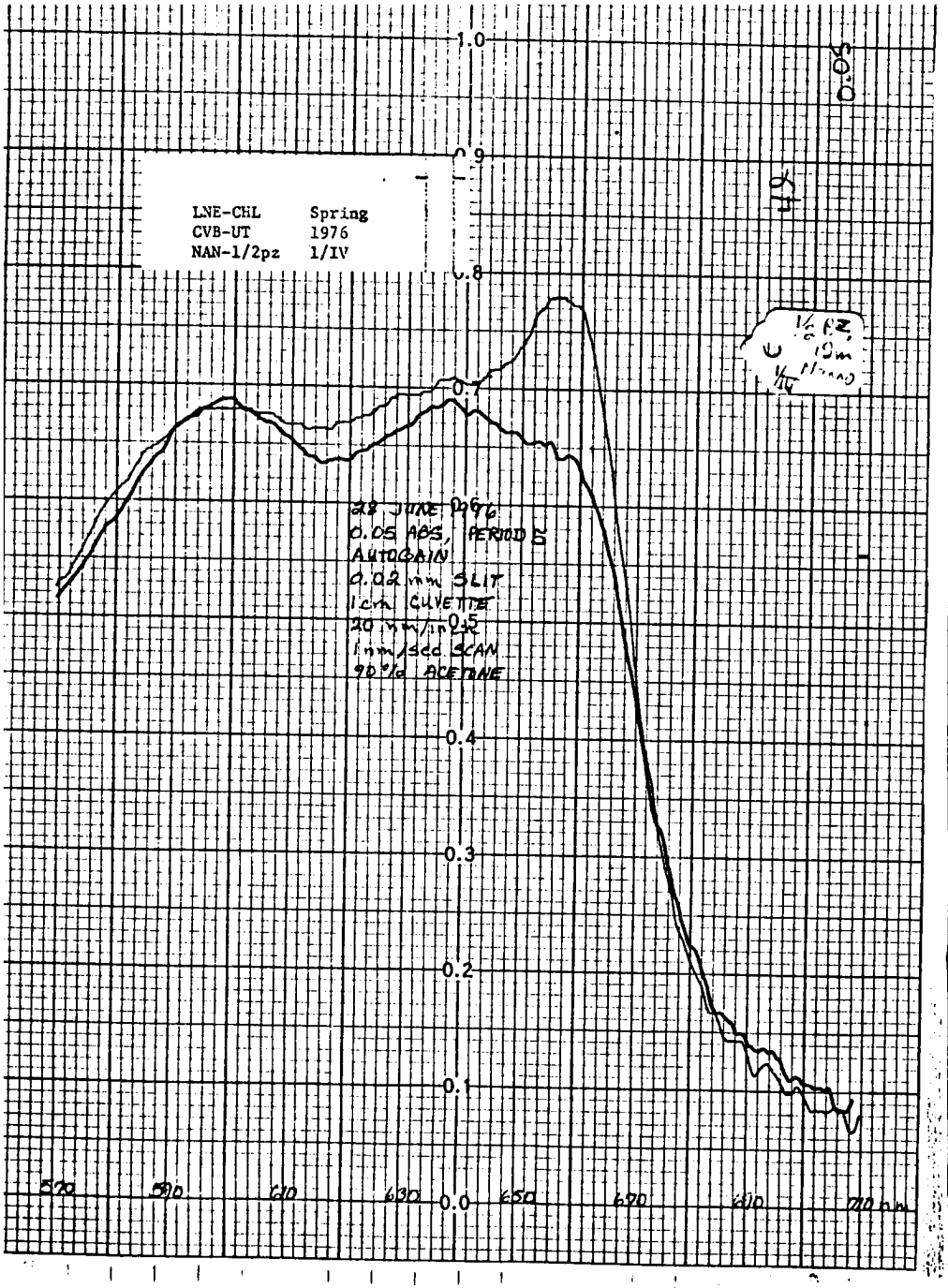
1/IV 5/20
U NANO
391 23m

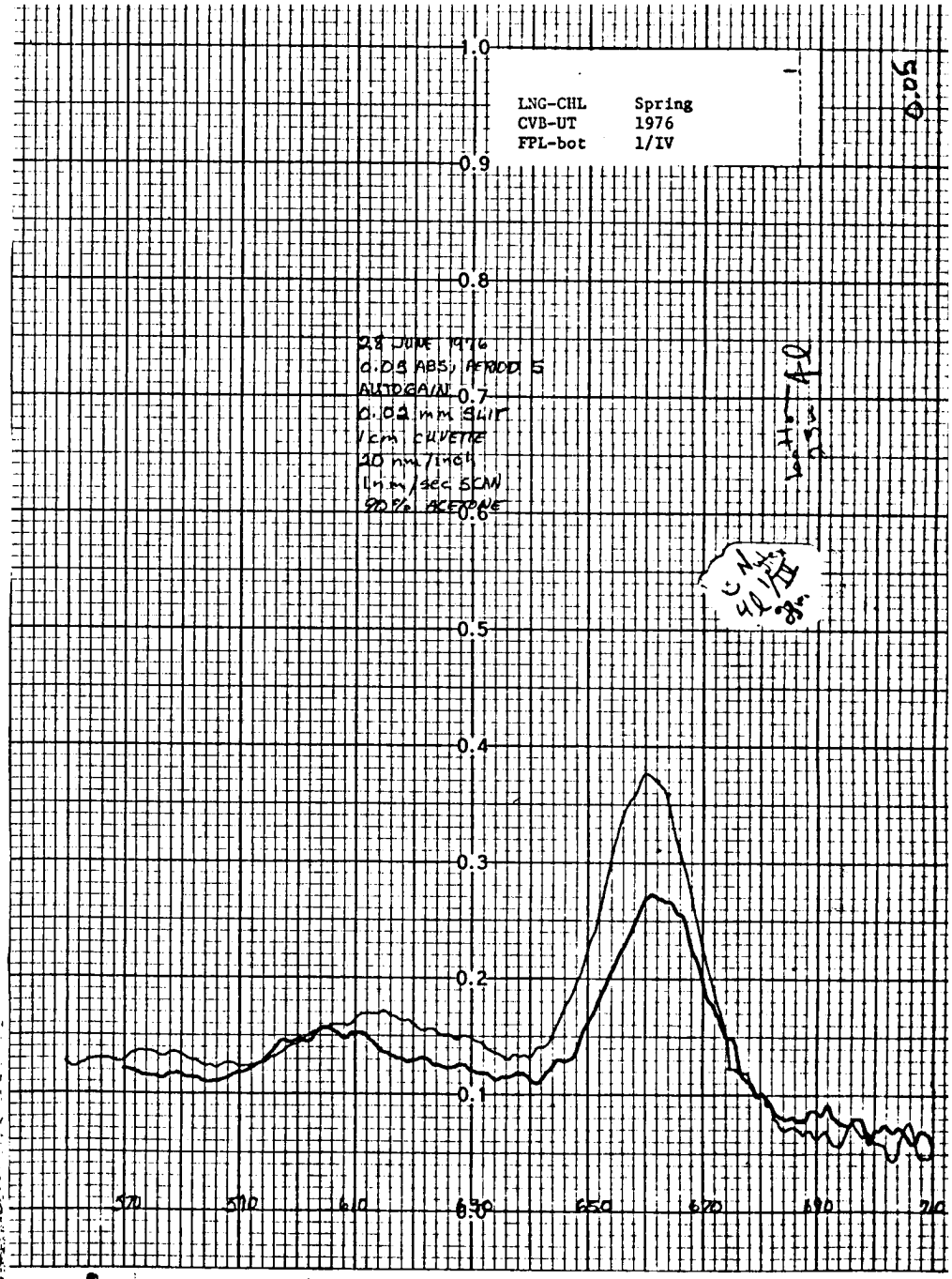
CHART NO. 12550 PRINTED IN U.S.A.

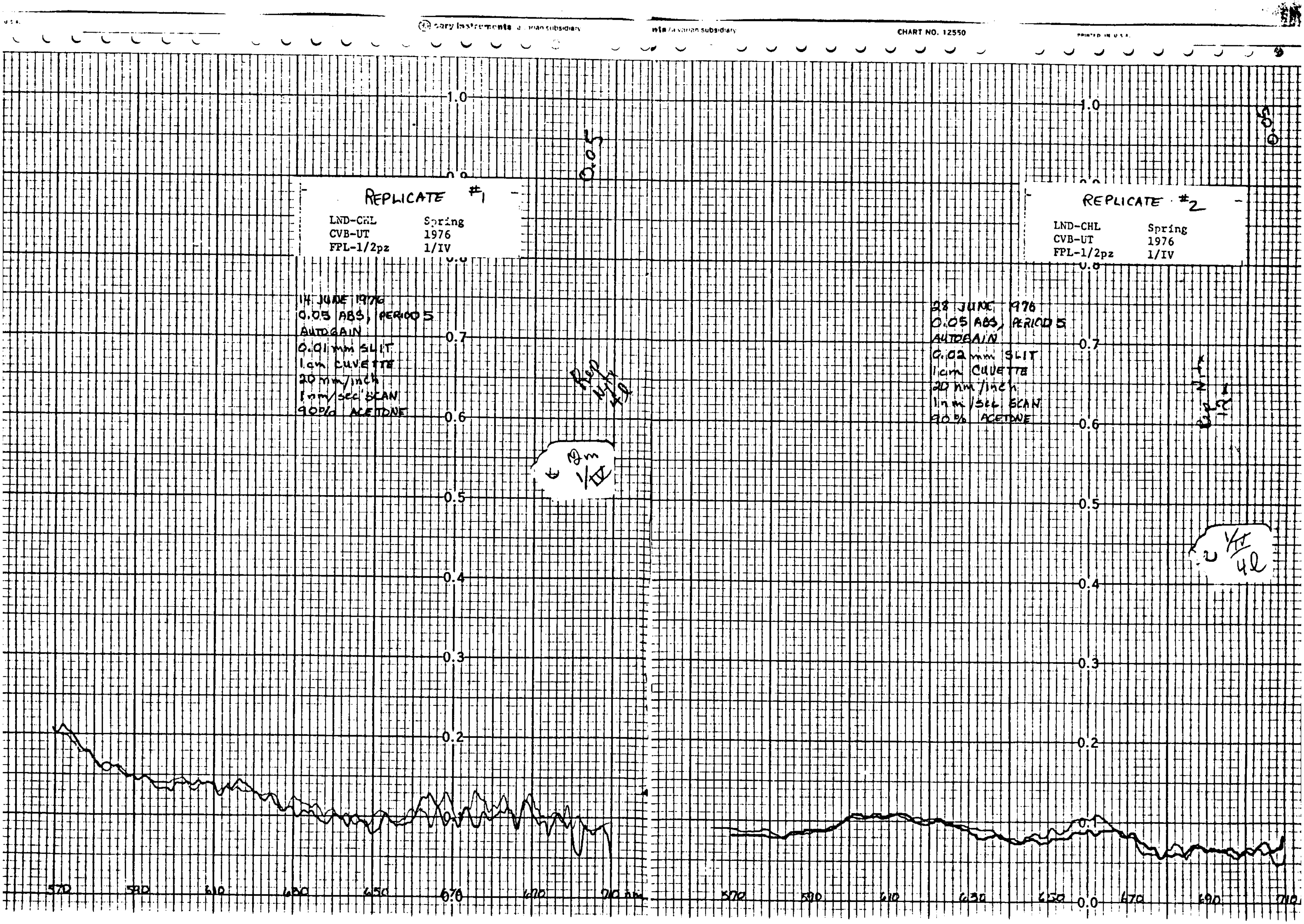
LOP-CHL Spring
CVB-UT 1976
FPL-surf 2/IV

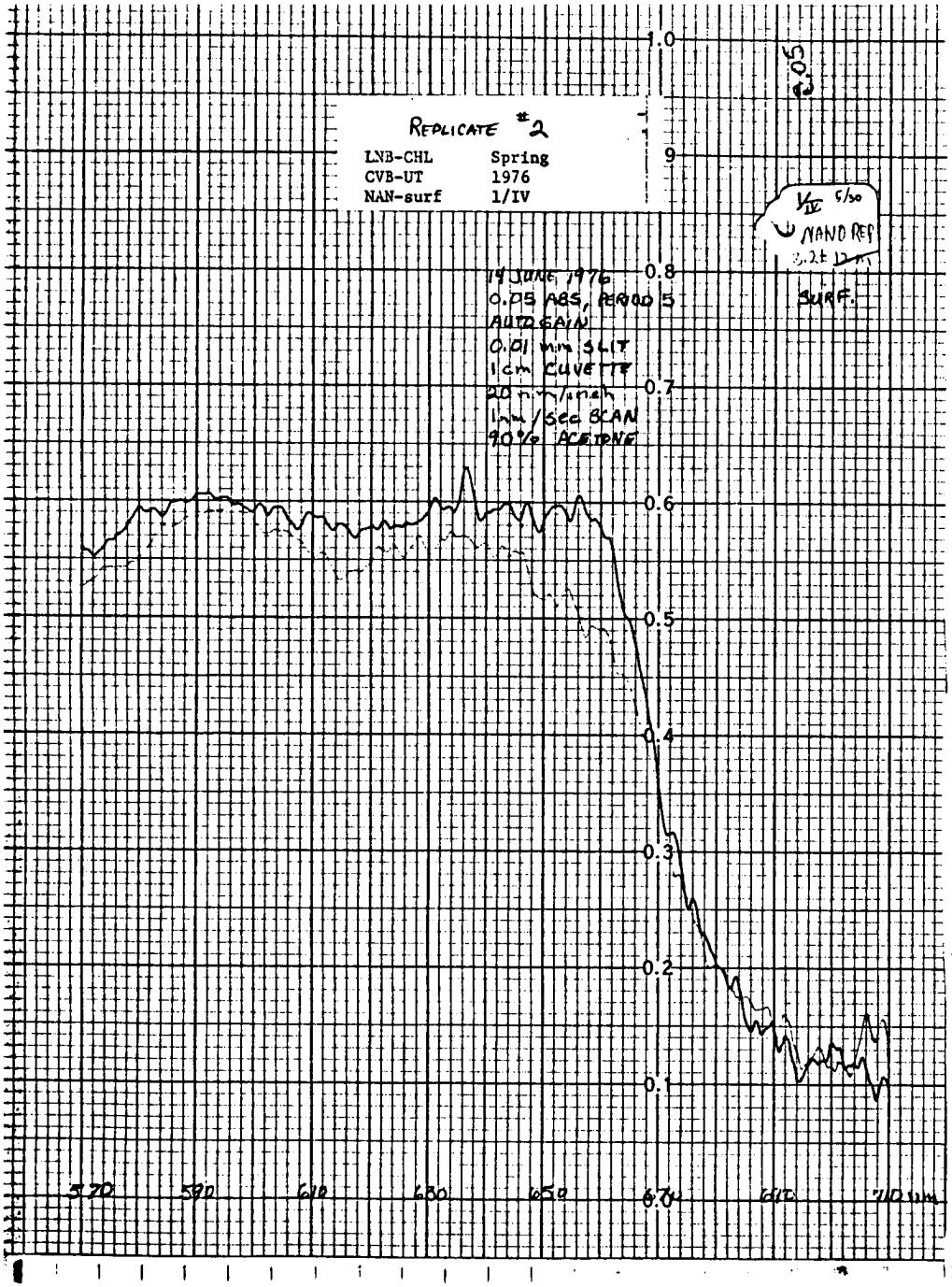
18 JUNE 1976
0.05 ABS, PERIOD 5
AUTOSCAN
0.01 m m SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE

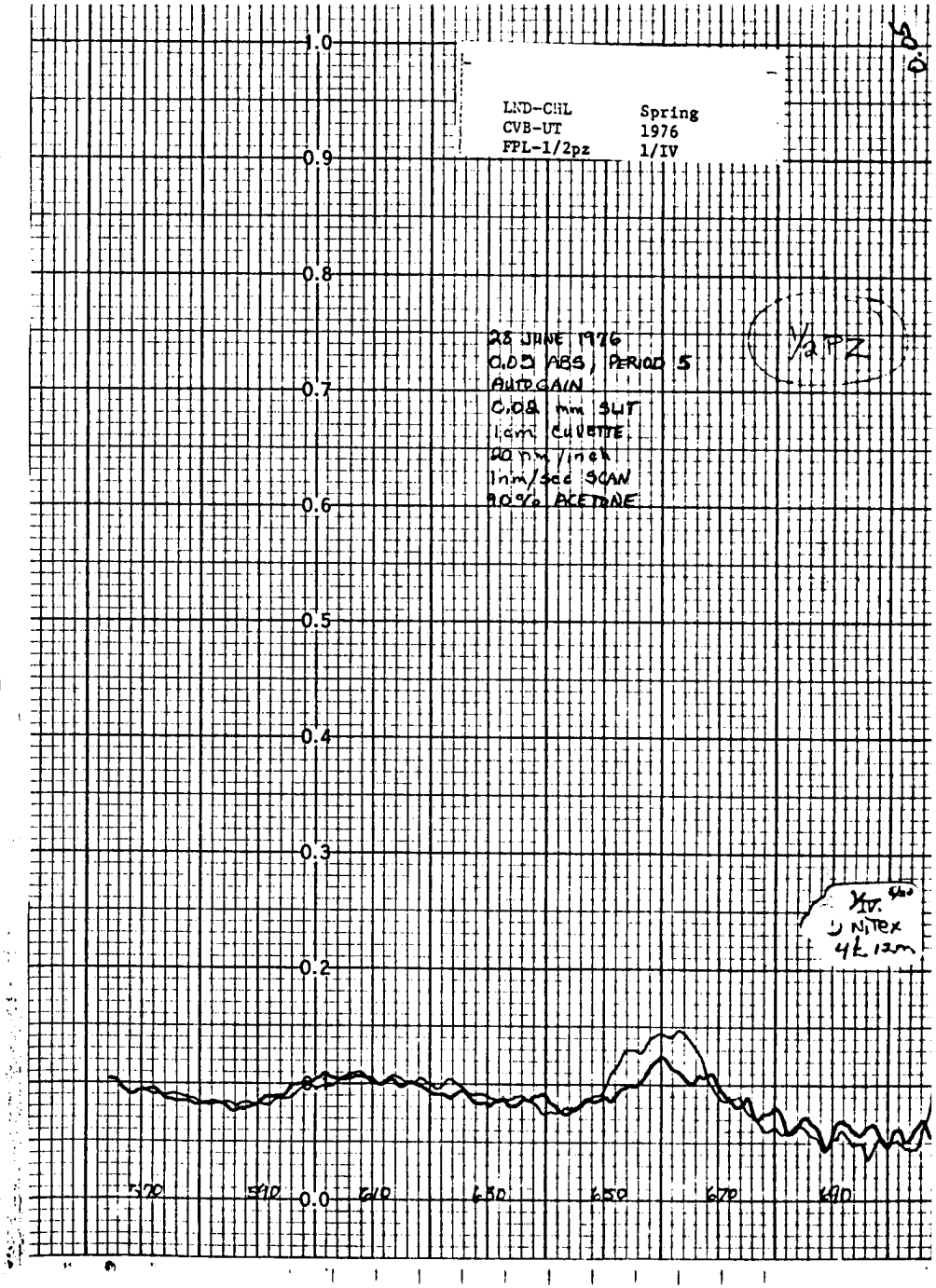
2/IV Nitex


LNE-CHL Spring
CVB-UT 1976
NAN-1/2pz 1/IV
28 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/in
1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 nm

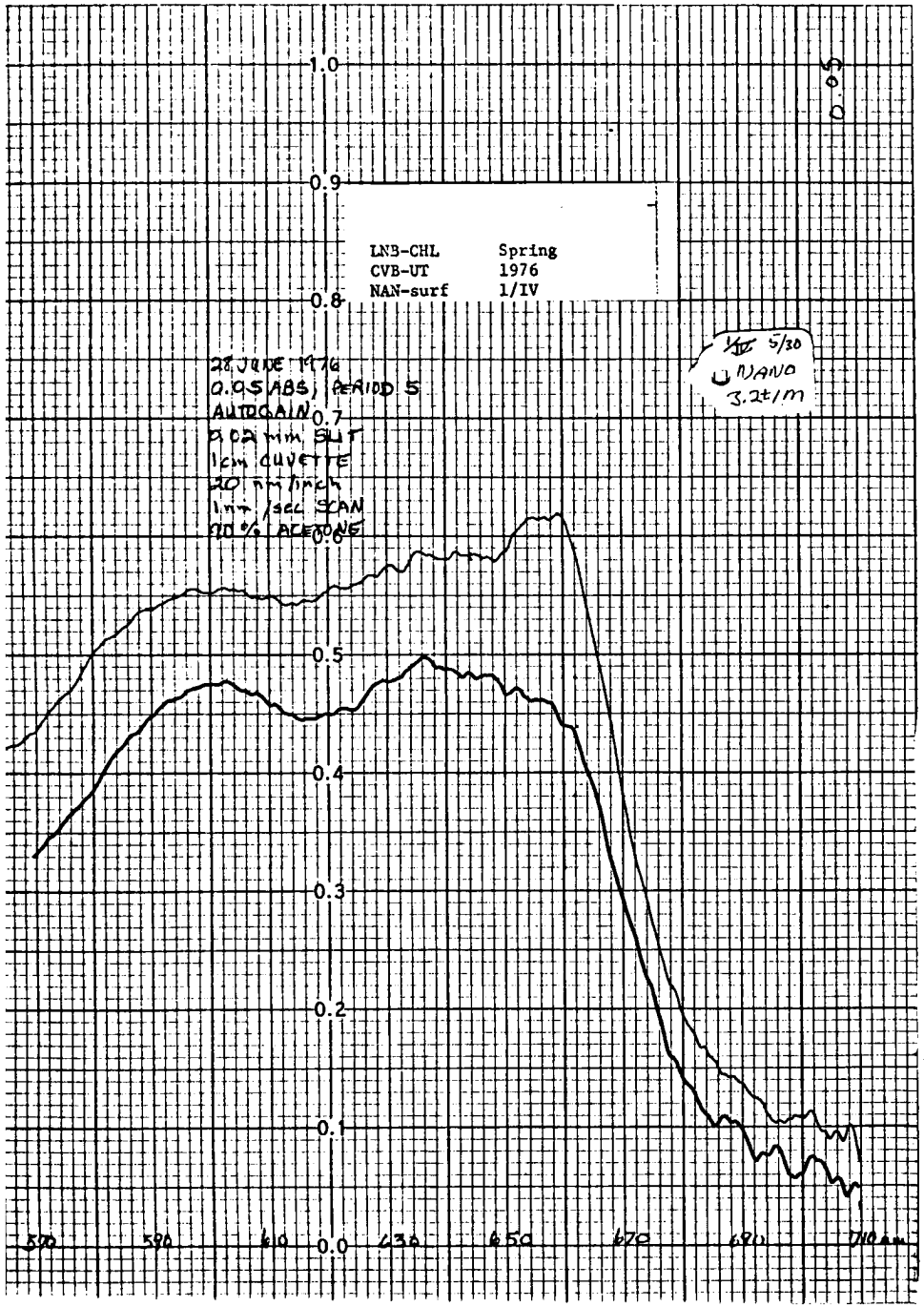

LNC-CHL Spring
CVB-UT 1976
FPL-bot 1/IV
28 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710


cary instruments a varian subsidiary
CHART NO. 12550
PRINTED IN U.S.A.
REPLICATE #1
LND-CHL Spring
CVB-UT 1976
FPL-1/2pz 1/IV
14 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1 cm CUVETTE
20 mm/inch
1 nm/sec SCAN
90% ACETONE
0.05
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710 nm
REPLICATE #2
LND-CHL Spring
CVB-UT 1976
FPL-1/2pz 1/IV
28 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
0.0
710

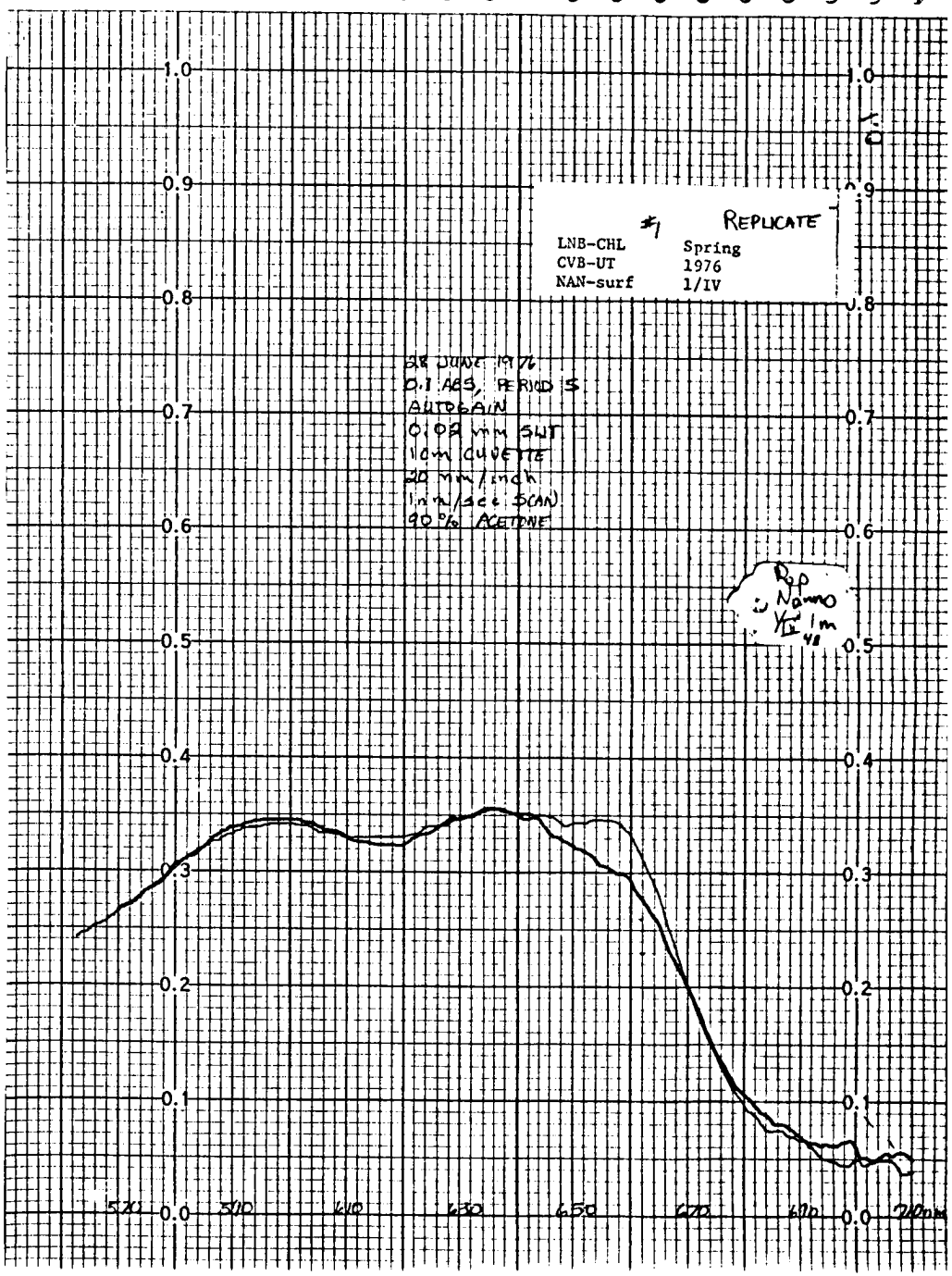

REPLICATE #2
LNB-CHL Spring
CVB-UT 1976
NAN-surf 1/IV
14 JUNE 1976
0.05 ABS, PERIOD 5
AUTO GAIN
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
1mm/sec SCAN
90% ACETONE
SURF.
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
370
590
610
630
650
670
690
710 nm

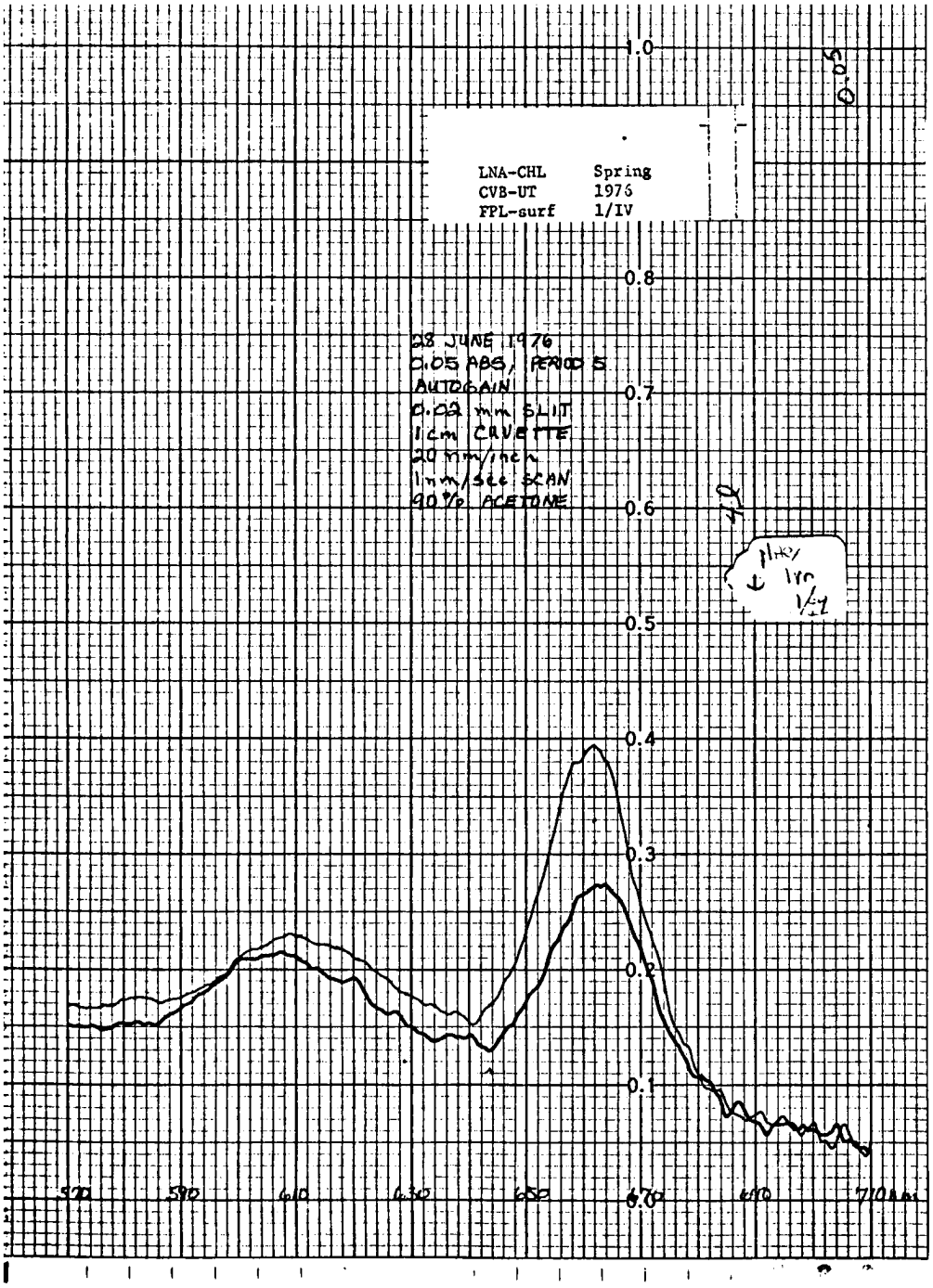

LND-CHL Spring
CVB-UT 1976
FPL-1/2pz 1/IV
28 JUNE 1976
0.05 ABS, PERIOD 5
AUTO GAIN
0.08 mm SLIT
1cm CUVETTE
20 nm/inch
1mm/sec SCAN
90% ACETONE
1/2 PZ
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
370
590
610
630
650
670
690

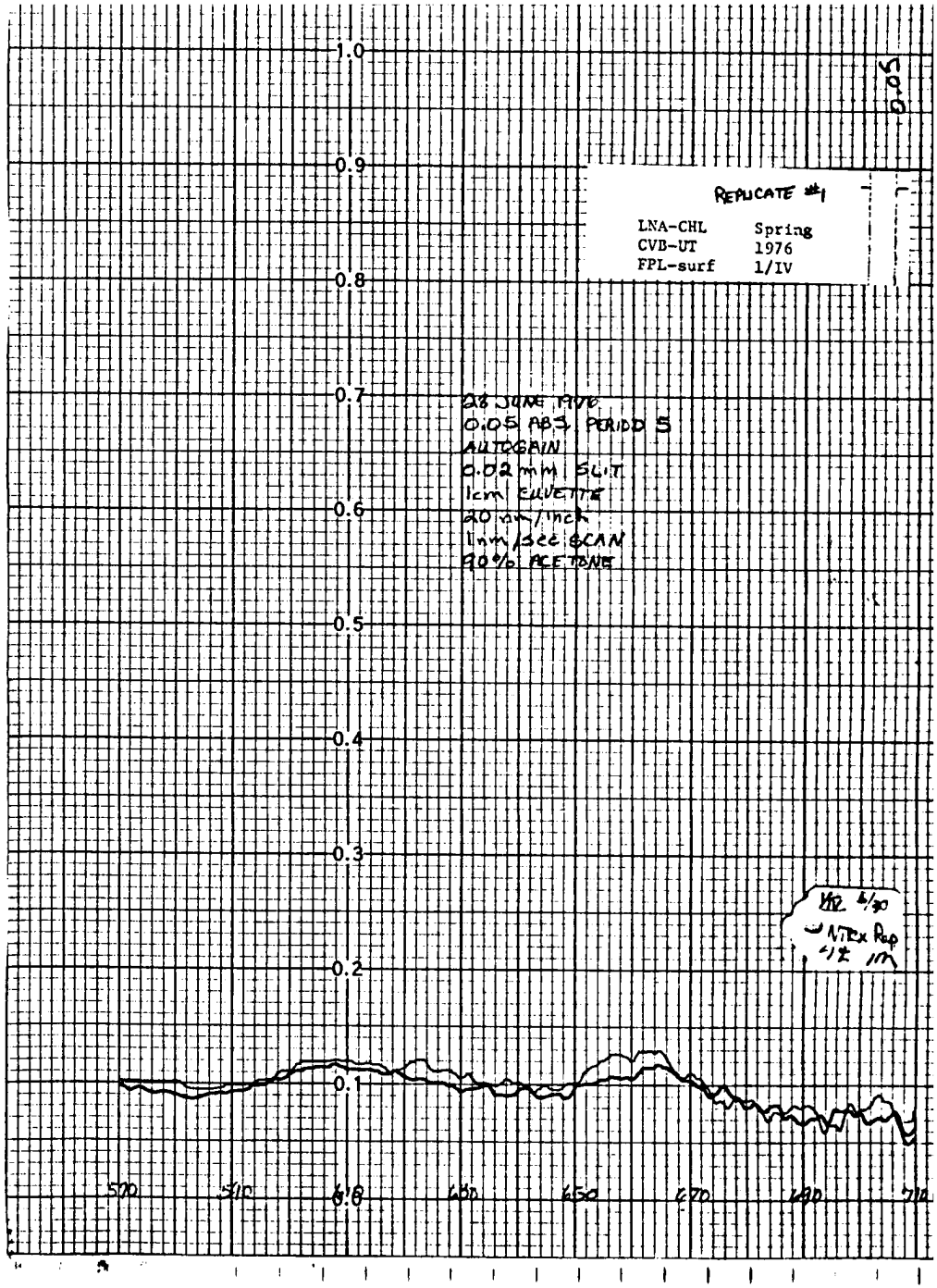
cary instruments — CHART NO. 12550



cary instruments — CHART NO. 12550




LNA-CHL Spring
CVB-UT 1976
FPL-surf 1/IV
28 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1nm/Sec SCAN
90% ACETONE
1.0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
500
590
610
630
650
670
690
710


REPLICATE #1
LNA-CHL Spring
CVB-UT 1976
FPL-surf 1/IV
28 JUNE 1976
0.05 ABS PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1nm/Sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
500
590
610
630
650
670
690
710

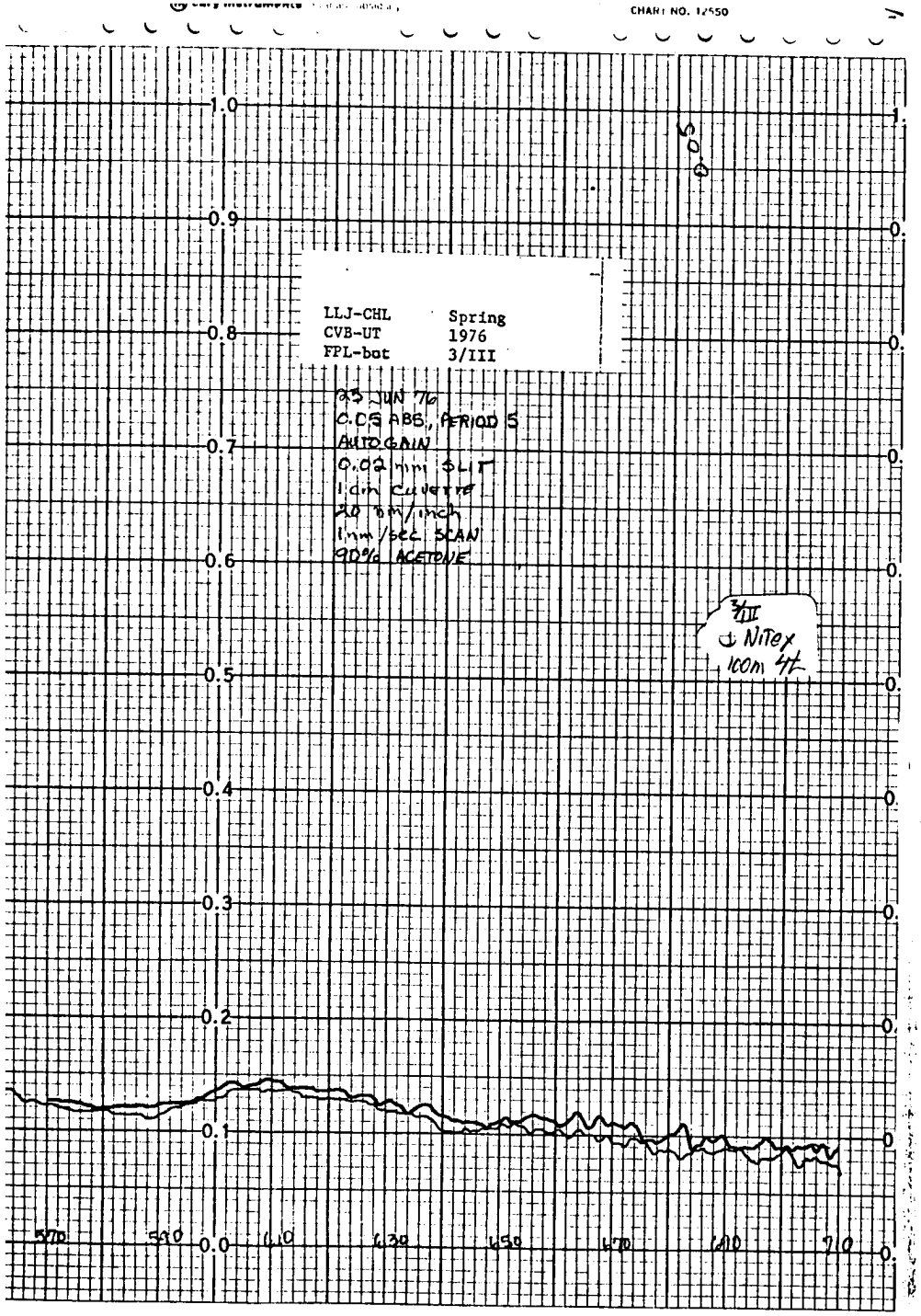


CHART NO. 12550
LLJ-CHL Spring
CVB-UT 1976
FPL-bot 3/III
25 JUN 76
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1 cm Cuvette
20 nm/inch
1 nm/sec SCAN
90% ACETONE
3/III
Nitex
1 com 4t
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710

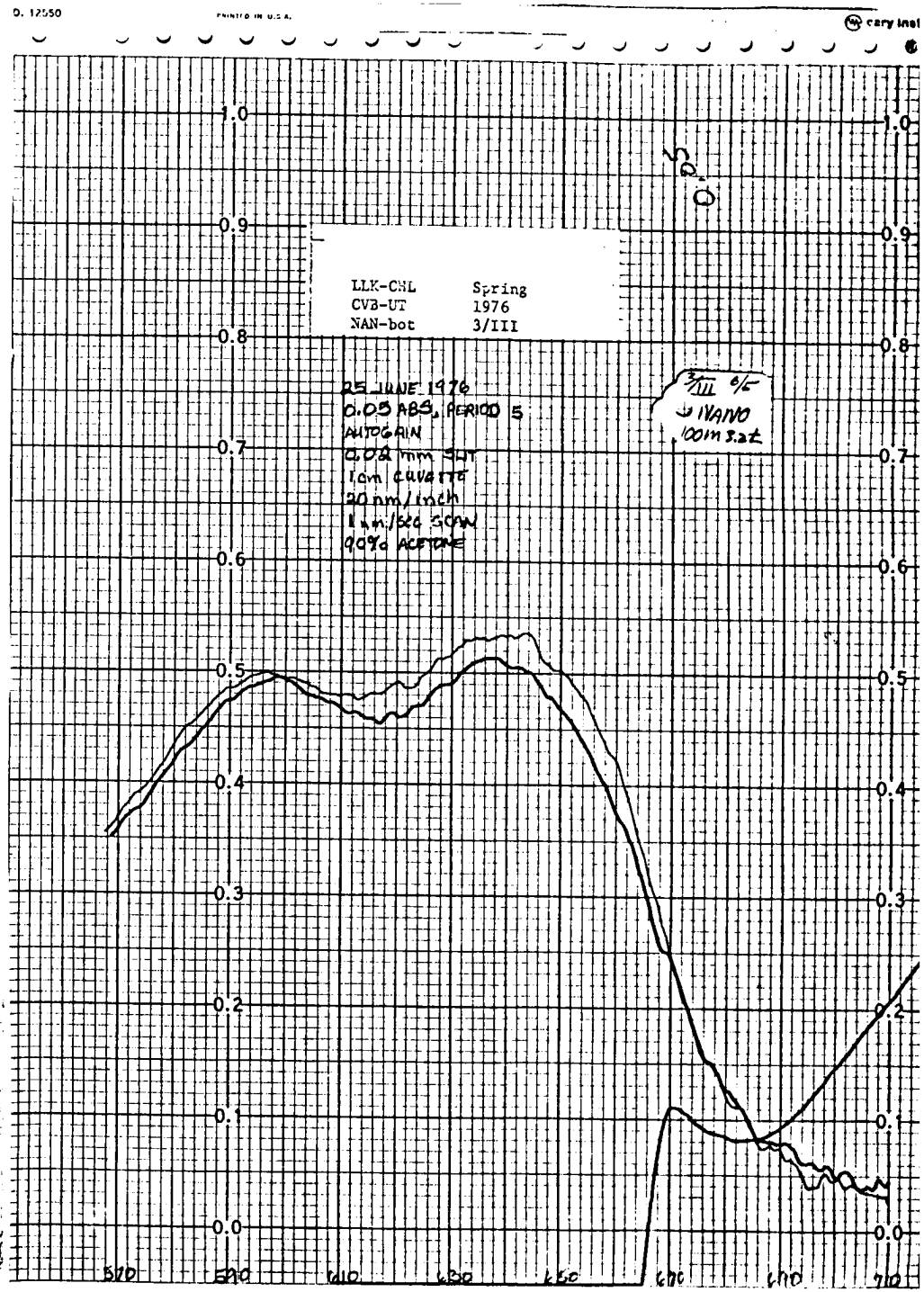
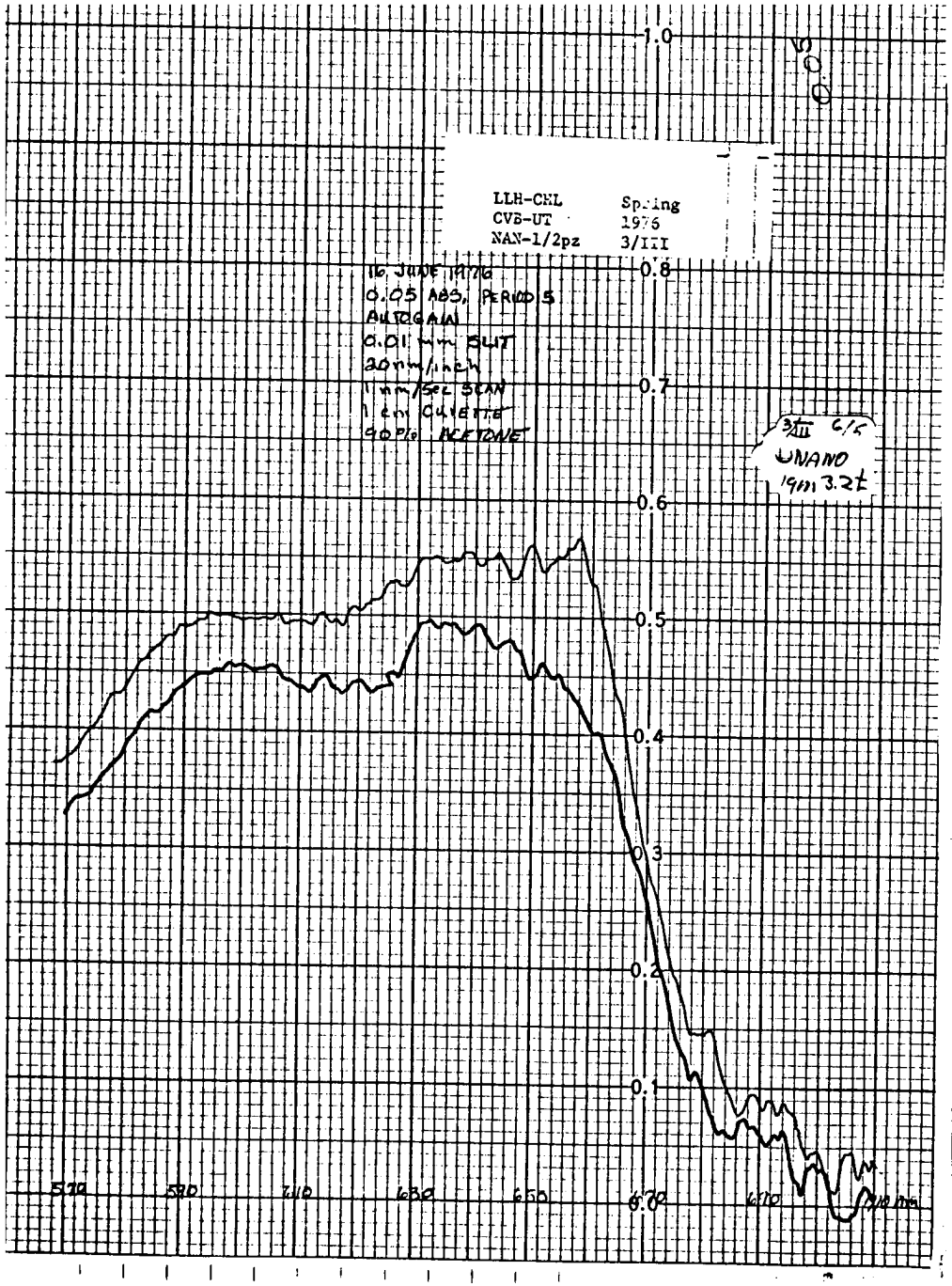


CHART NO. 12550
cary inst
LLK-CHL Spring
CVB-UT 1976
NAN-bot 3/III
25 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1 cm cuvette
20 nm/inch
1 nm/sec SCAN
90% ACETONE
3/III 6/6
IVANO
100 m 3.2t
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710


LLH-CHL Spring
CVB-UT 1976
NAN-1/2pz 3/III
16. JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 nm SLIT
20nm/inch
1nm/sec SCAN
1cm CUVETTE
90% ACETONE
3/III 6/5
UNANO
19m 3.2t
1.0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710
nm

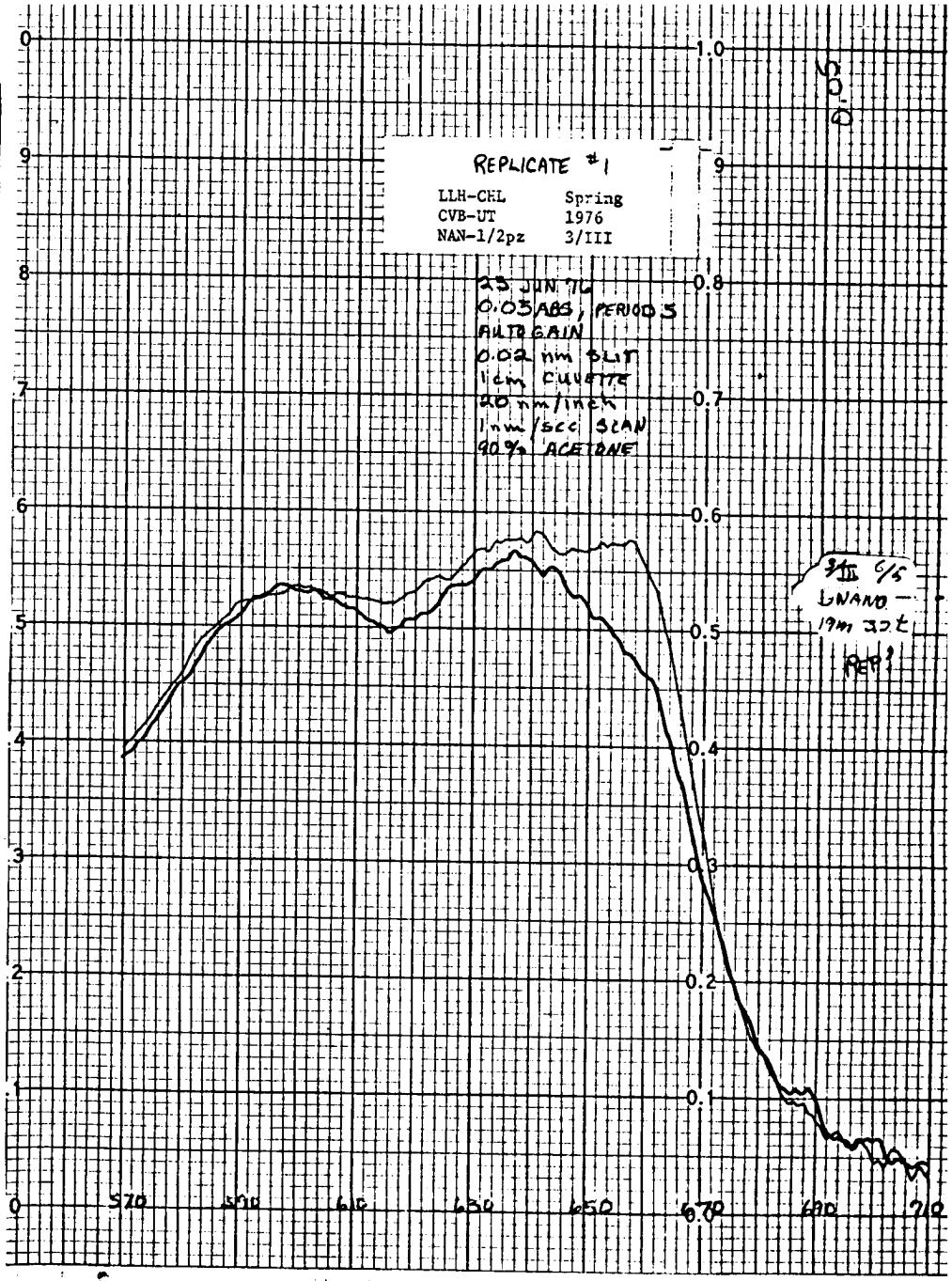

REPLICATE #1
LLH-CHL Spring
CVB-UT 1976
NAN-1/2pz 3/III
23 JUN 76
0.05ABS, PERIOD 5
AUTOGAIN
0.02 nm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
3/III 6/5
UNANO
19m 3.2t
REP?
1.0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710

CHART NO. 12550 PRINTED IN U.S.A.

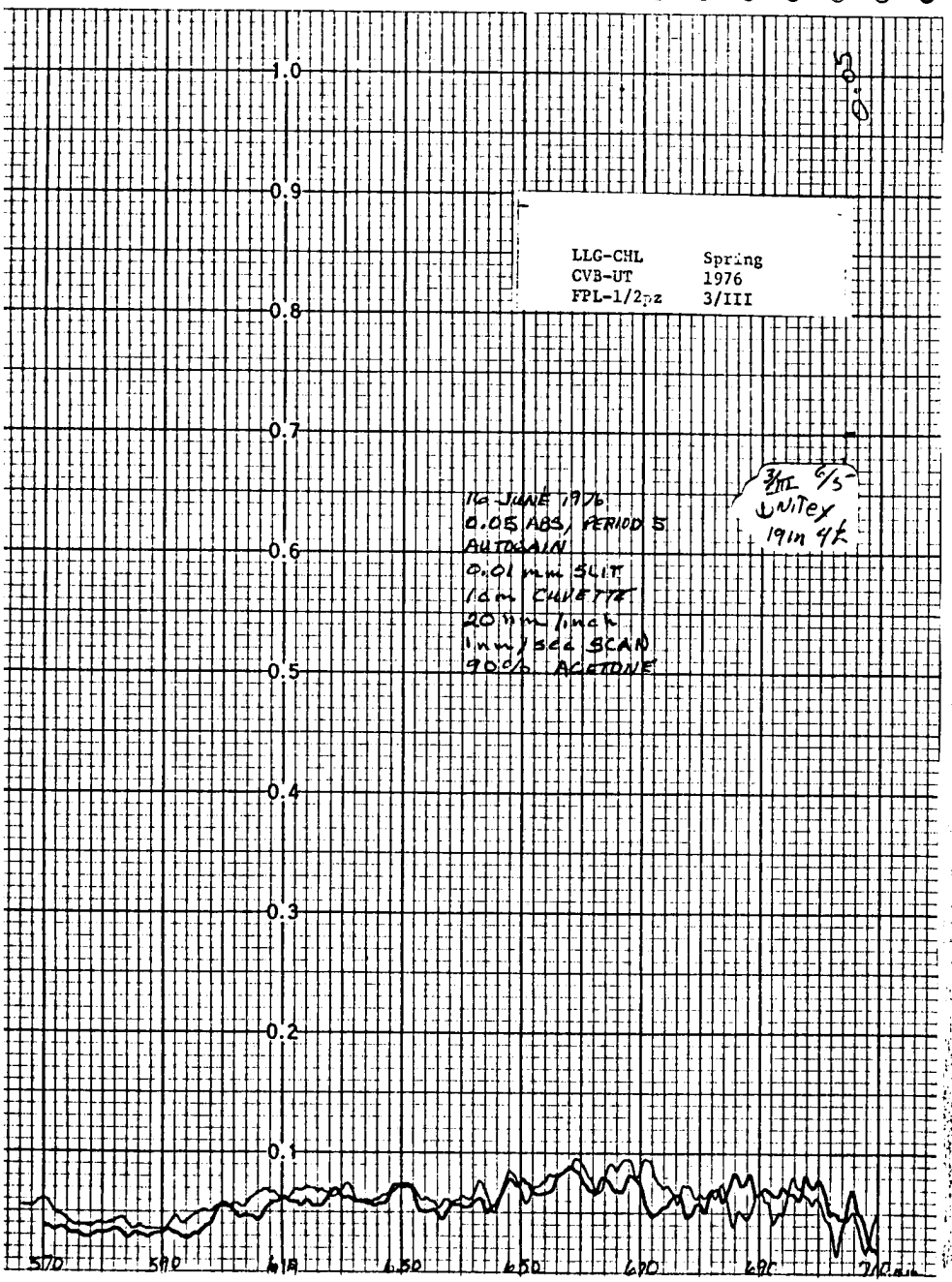
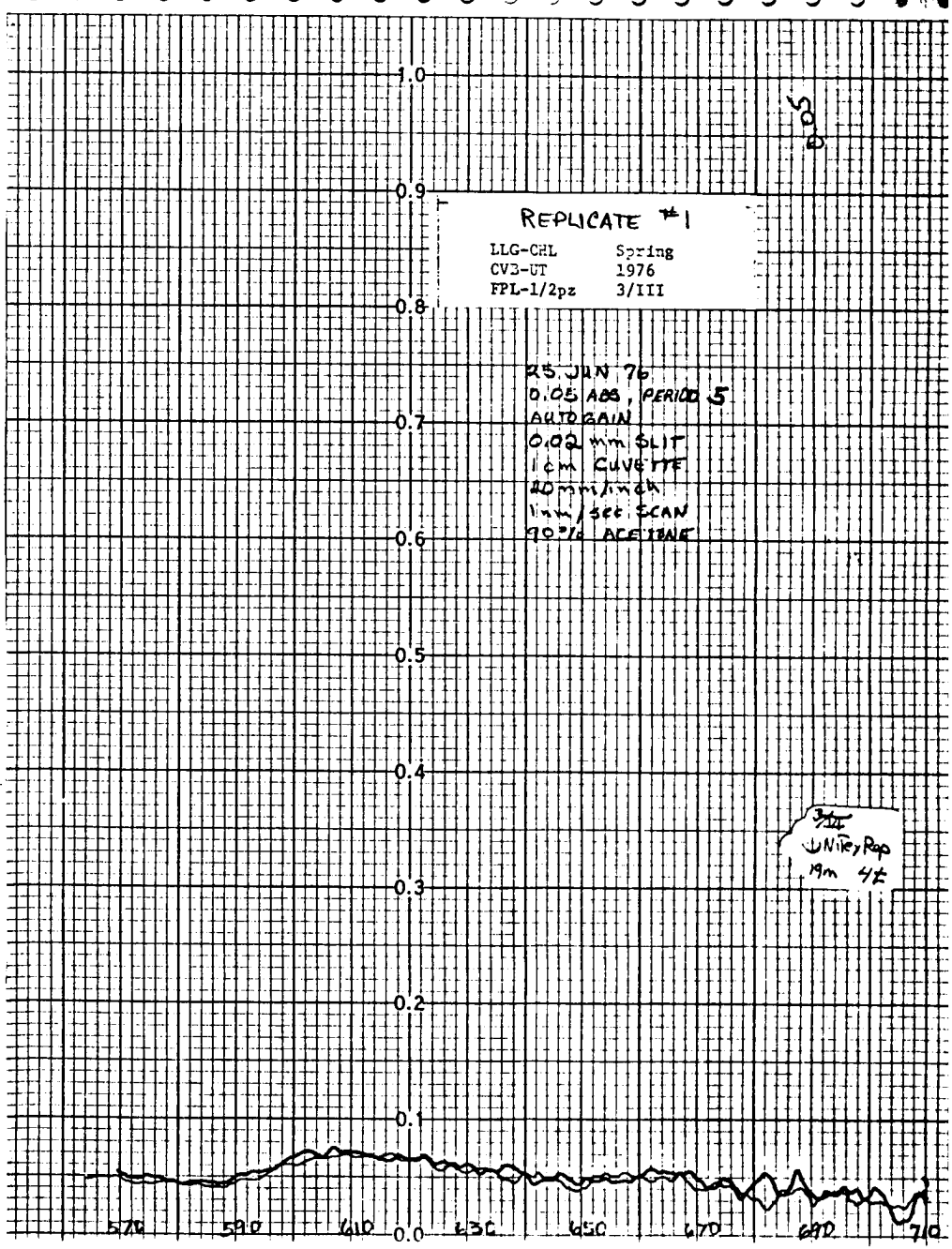
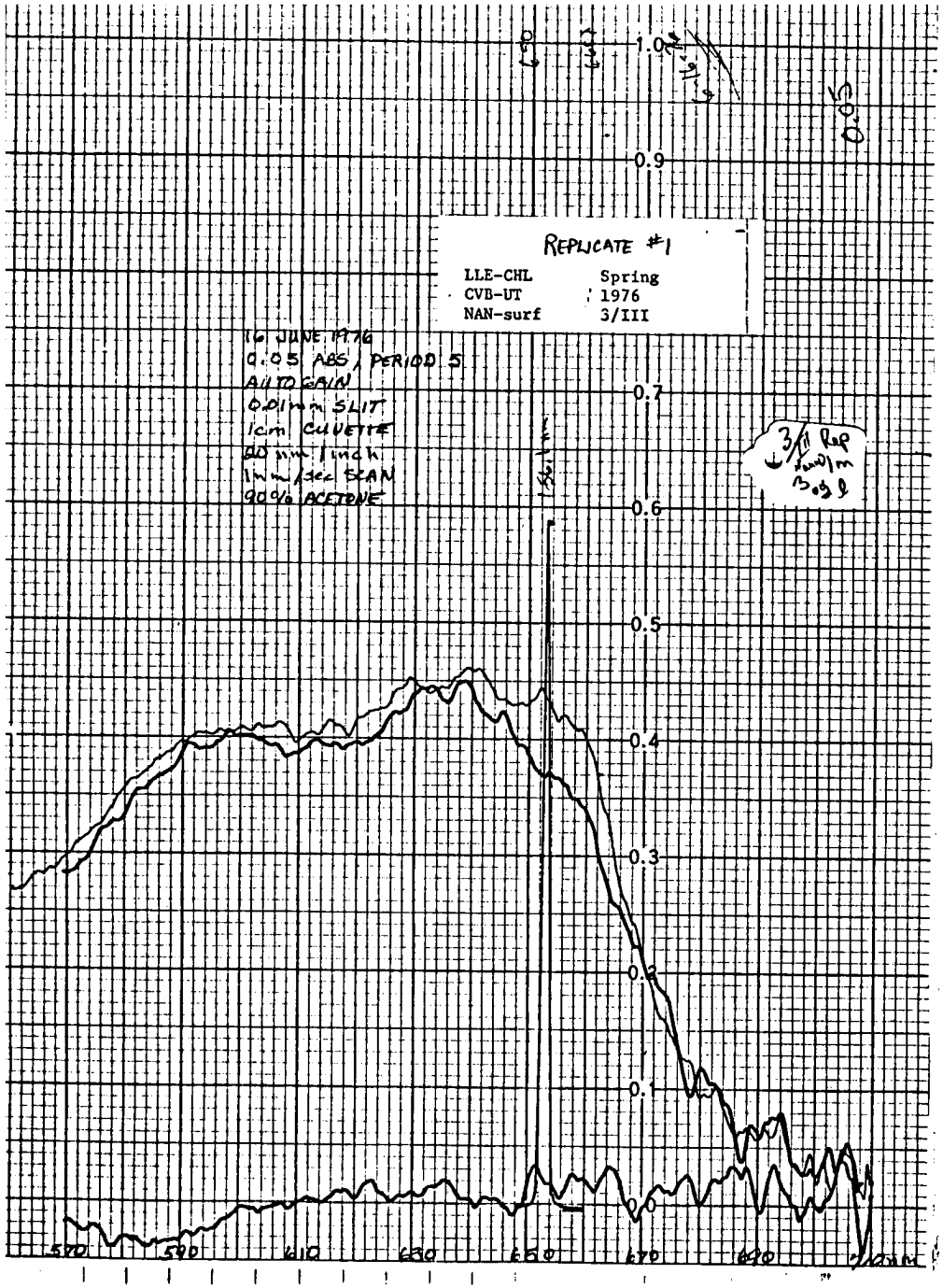
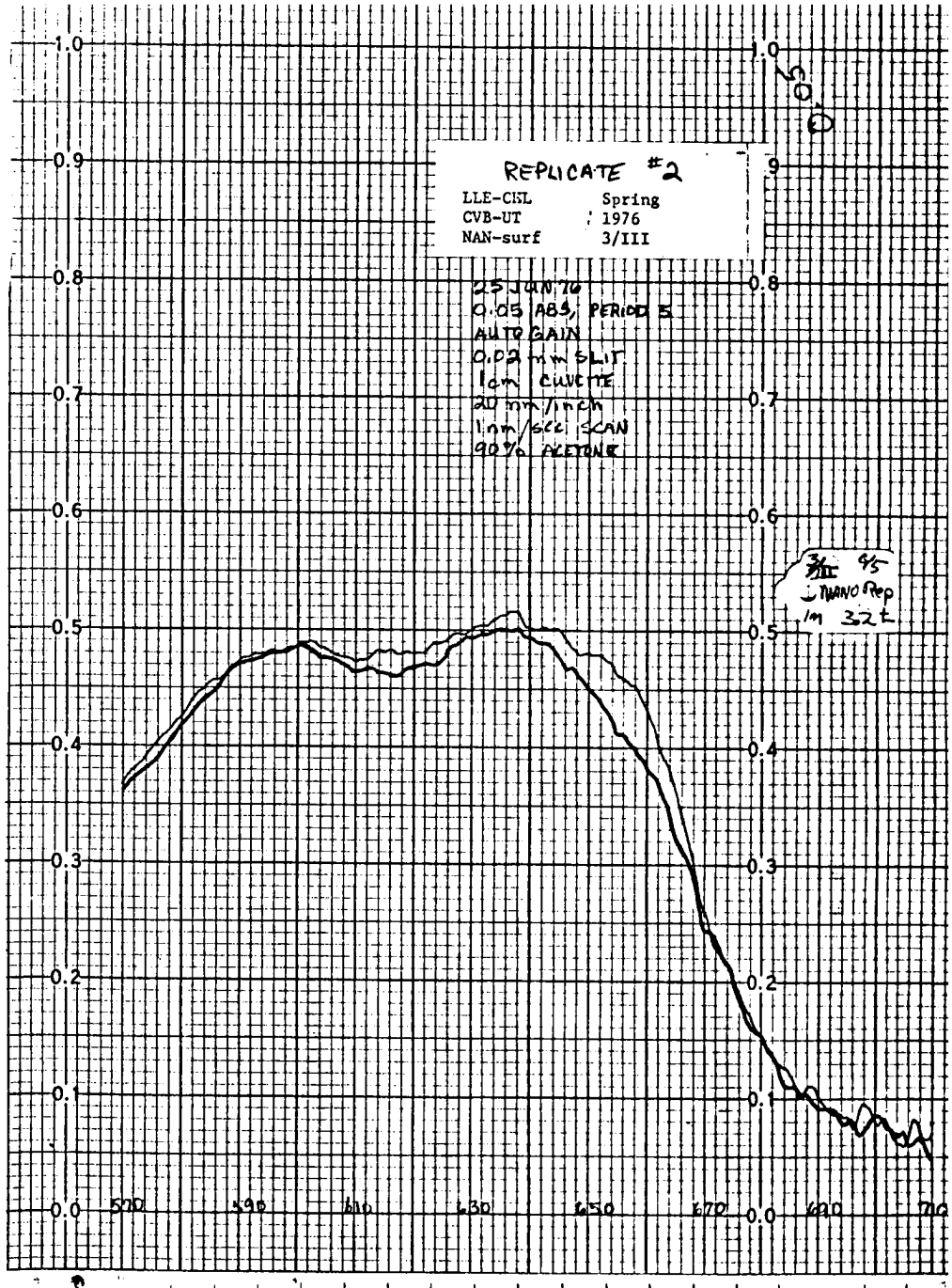


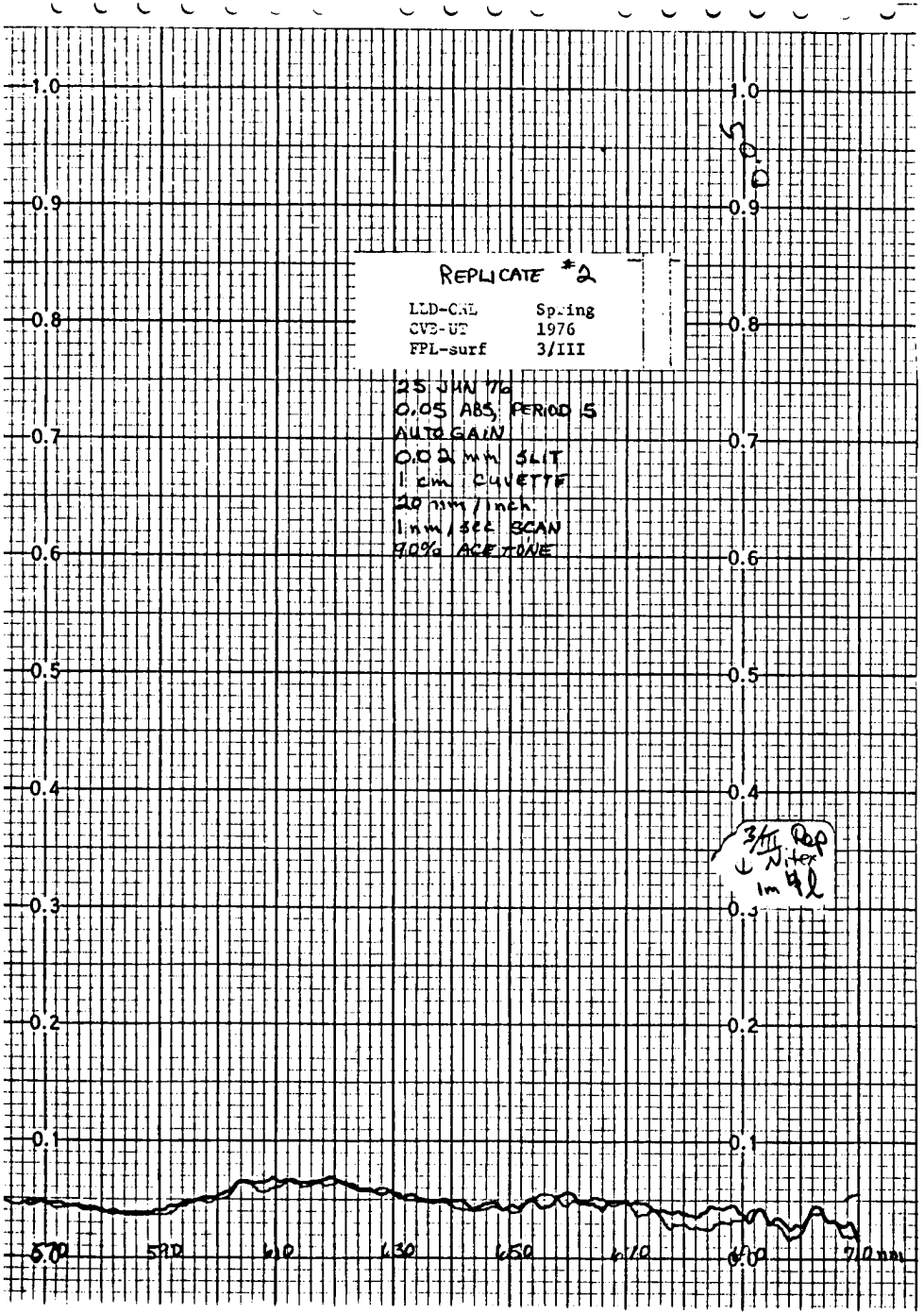
CHART NO. 12550 PRINTED IN U.S.A.



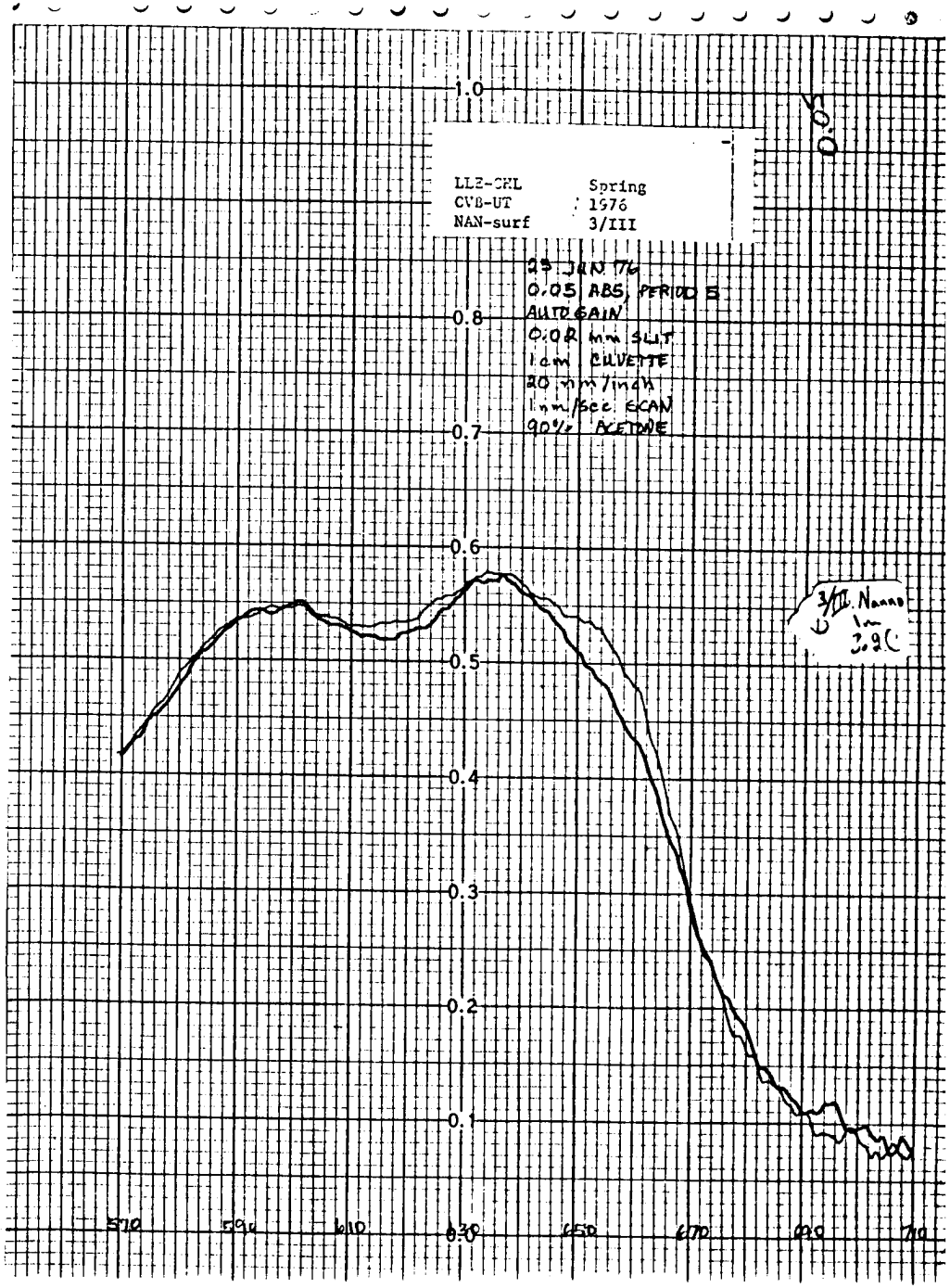

REPLICATE #1
LLE-CHL Spring
CVB-UT ; 1976
NAN-surf 3/III
16 JUNE 1976
0.05 ABS / PERIOD 5
AUTO GAIN
0.01 mm SLIT
1cm CUVETTE
20 nm / inch
1 nm / sec SCAN
90% ACETONE
3/II Rep
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
500
590
610
630
650
670
690

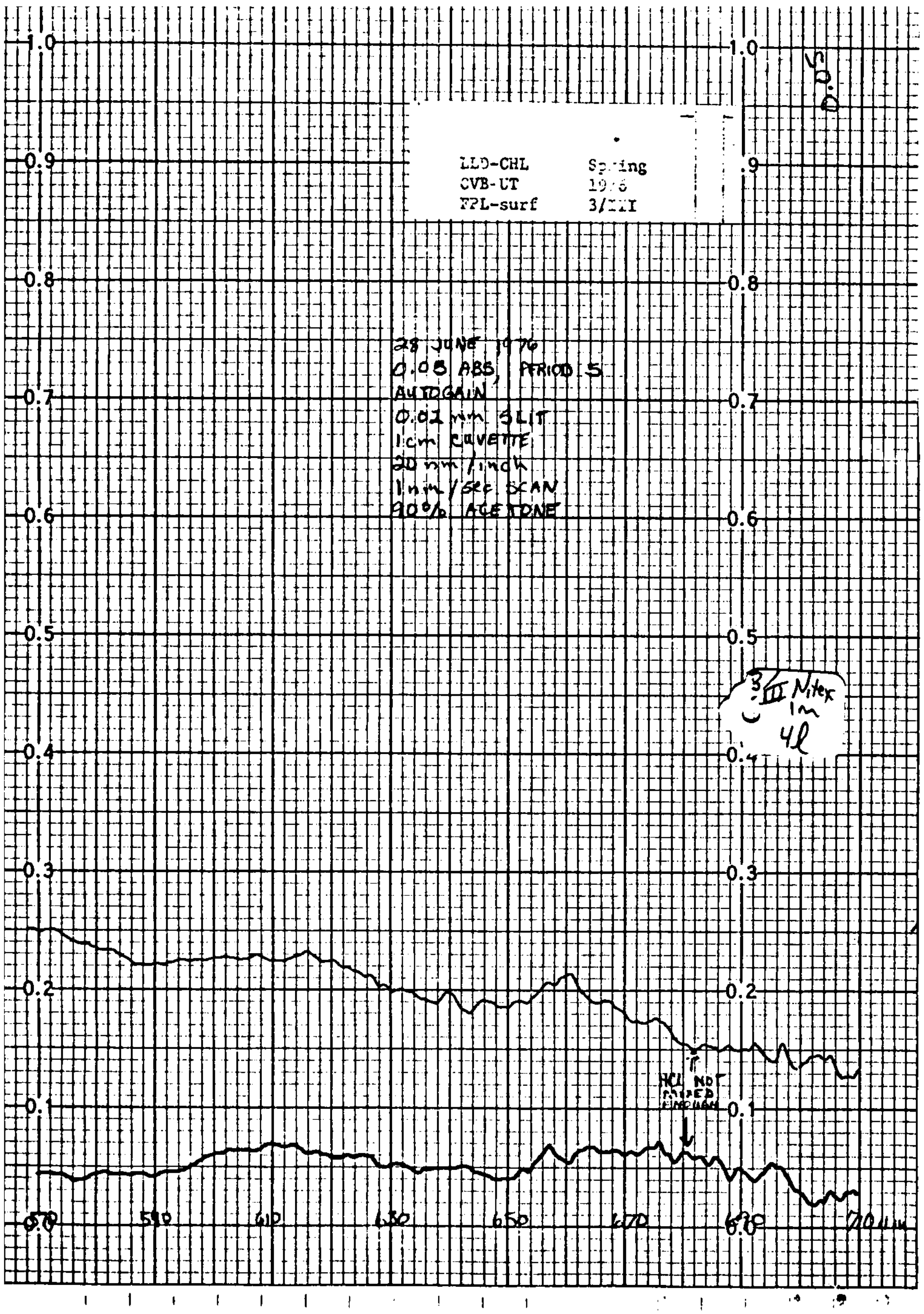

REPLICATE #2
LLE-CHL Spring
CVB-UT ; 1976
NAN-surf 3/III
25 JAN 76
0.05 ABS, PERIOD 5
AUTO GAIN
0.02 mm SLIT
1cm CUVETTE
20 nm / inch
1 nm / sec SCAN
90% ACETONE
3/III 95
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
500
590
610
630
650
670
690

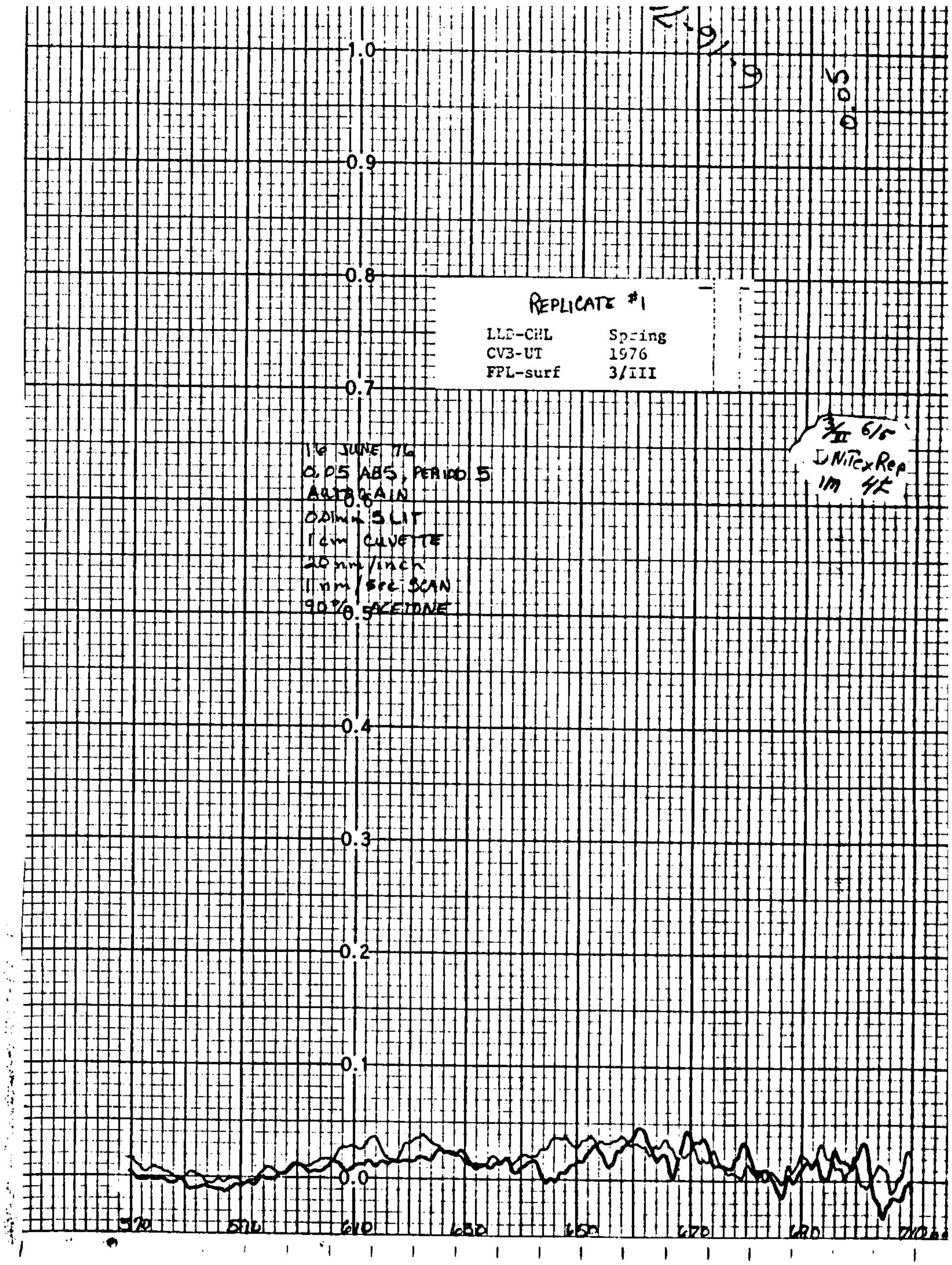
cary instruments — CHART NO. 12550 — PRINTED IN U.S.A.

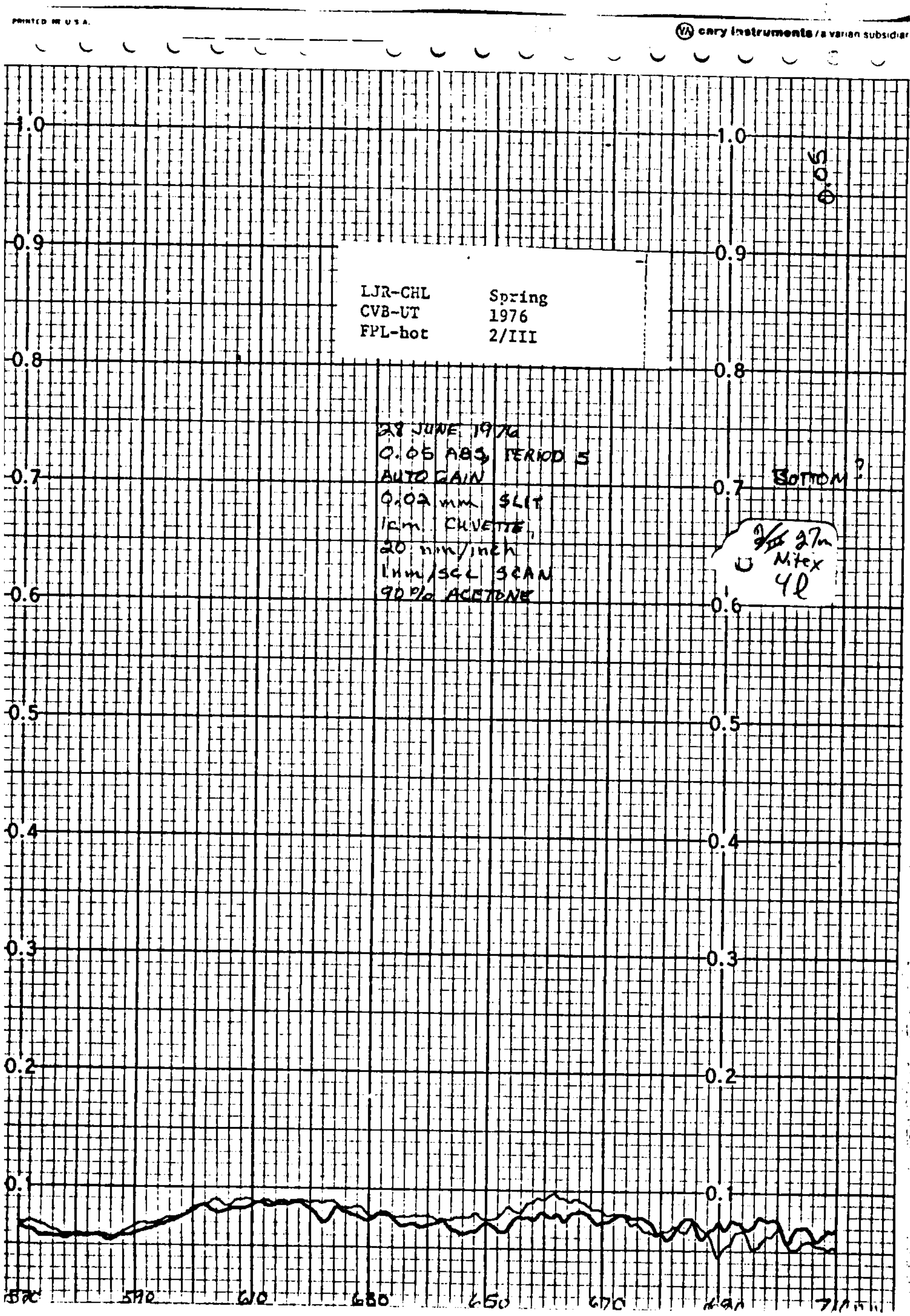


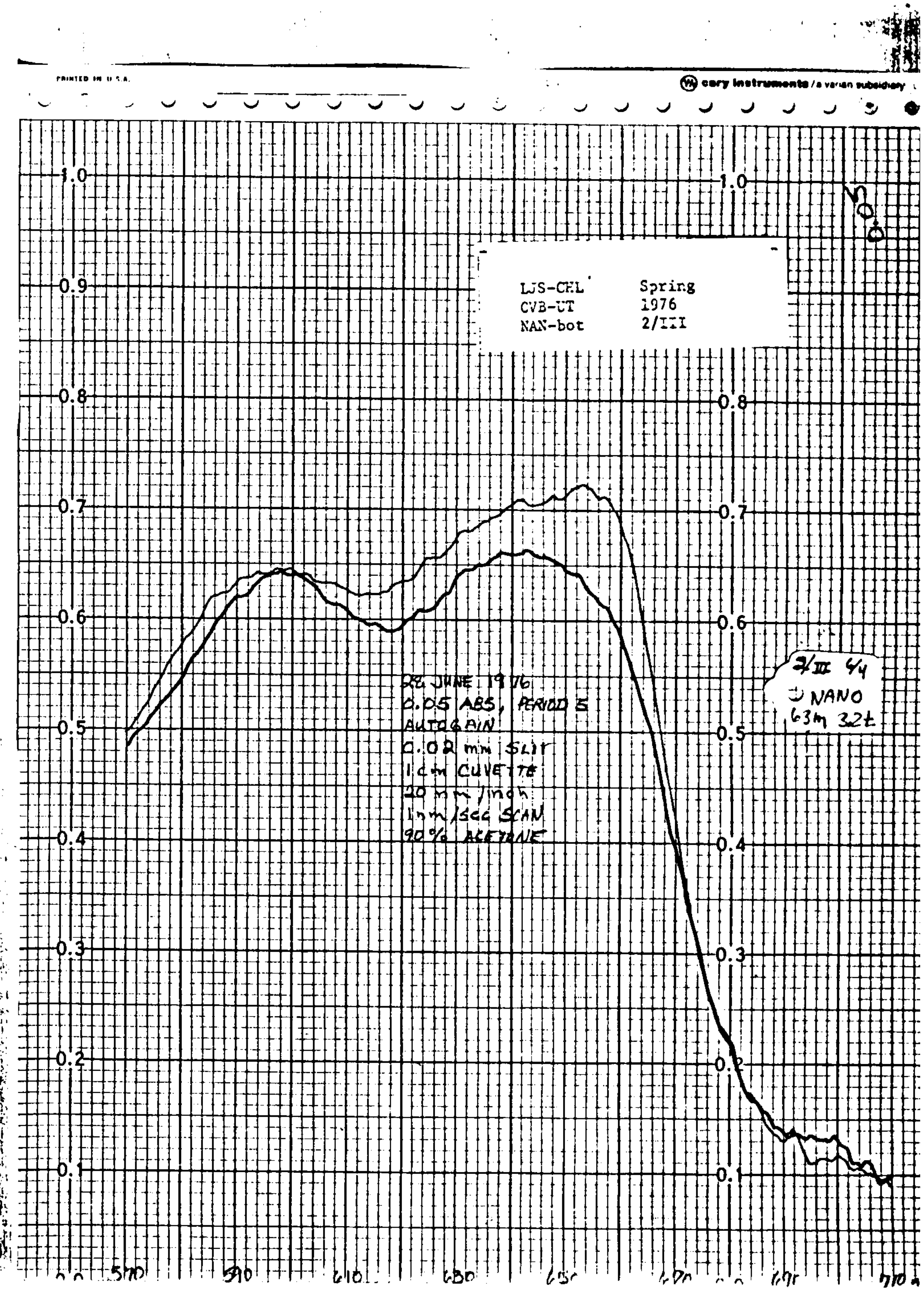
cary instruments — CHART NO.

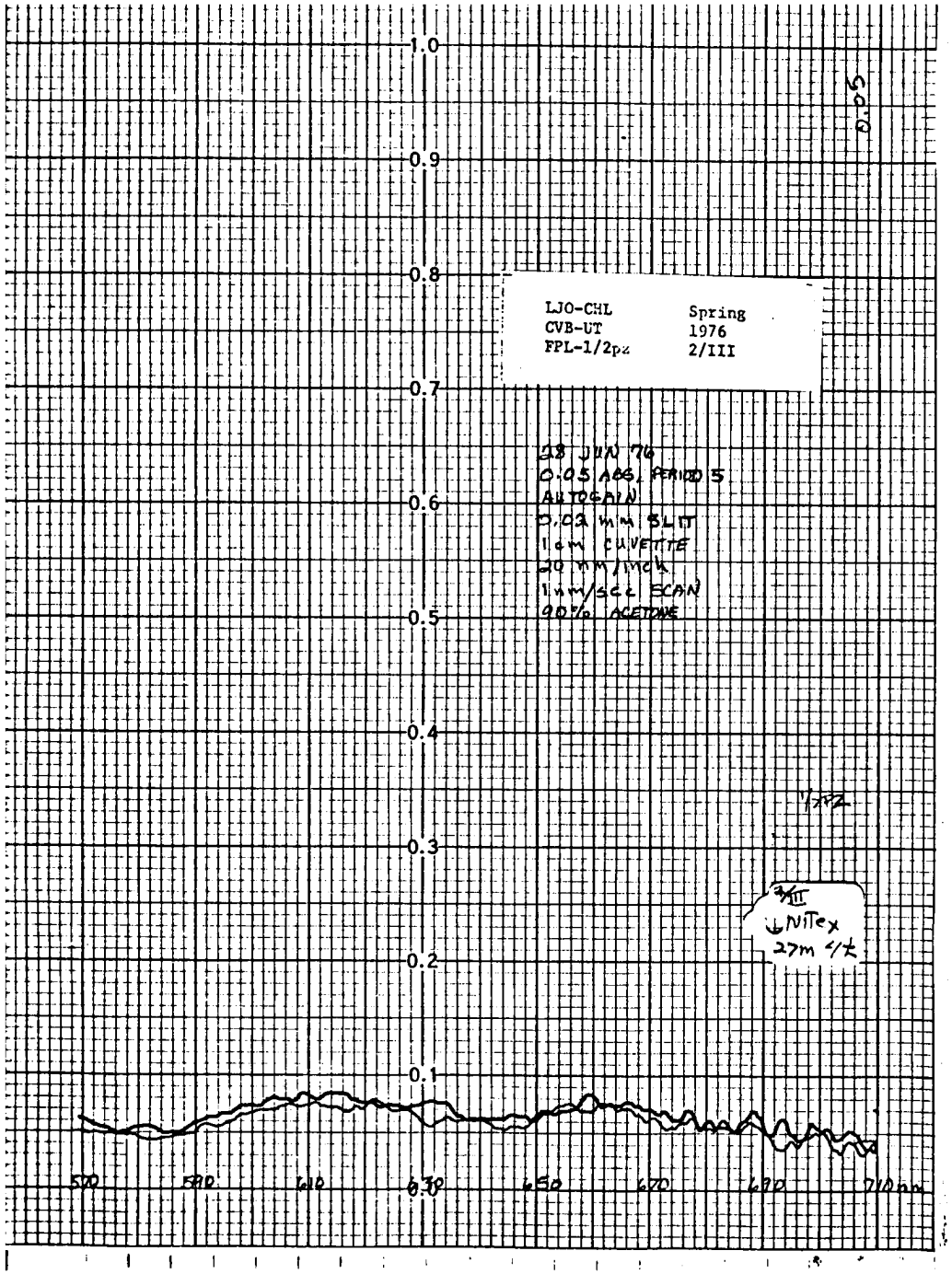


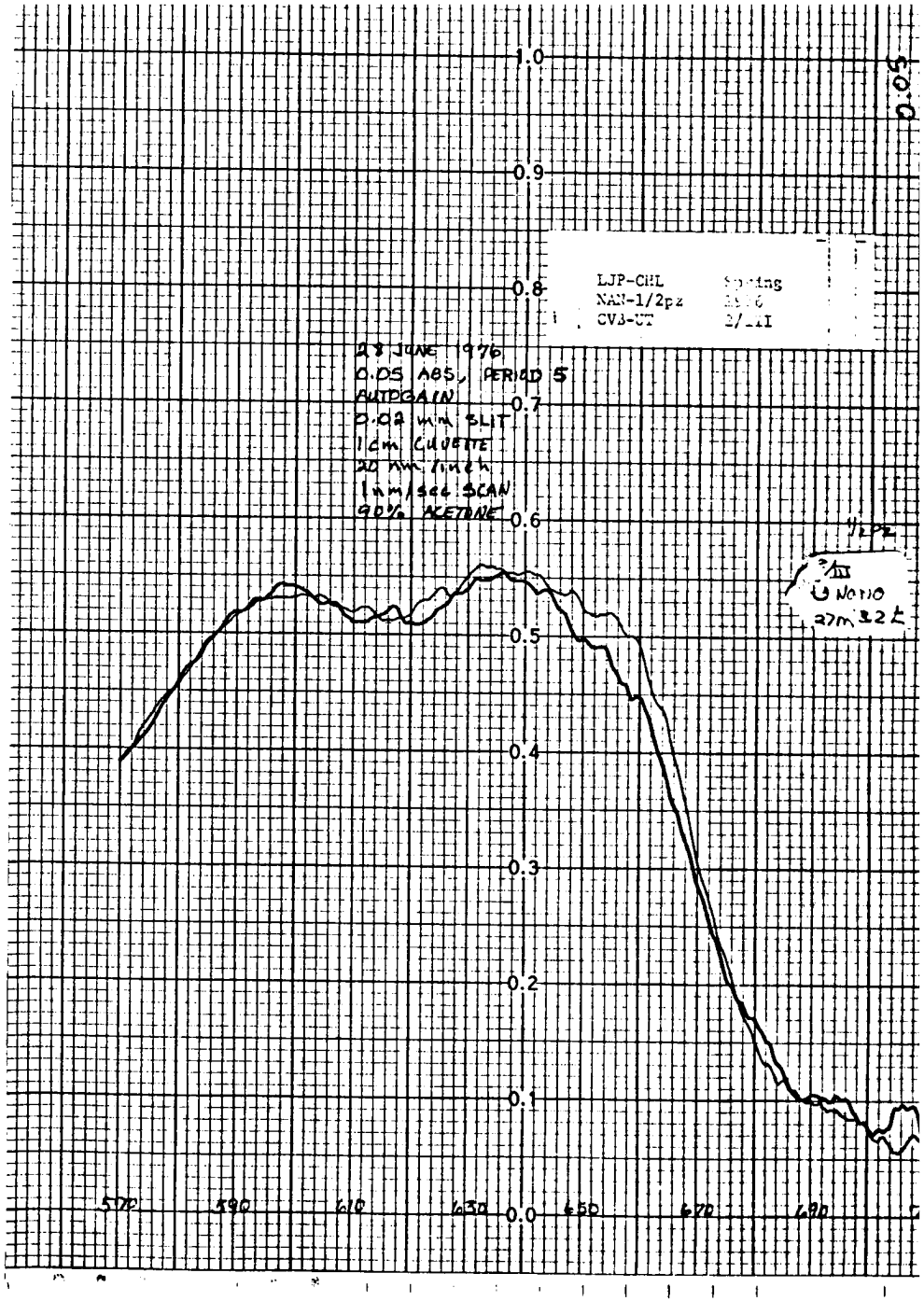

LLD-CHL Spring
CVB-UT 1976
FPL-surf 3/III
28 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 nm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
3/II Nitex
1m
4l
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710


REPLICATE #1
LLD-CHL Spring
CV3-UT 1976
FPL-surf 3/III
16 JUNE 76
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 nm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
3/II 6/5
Nitex Rep
1m 4l
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710


cary instruments / a varian subsidiary
LJR-CHL Spring
CVB-UT 1976
FPL-bot 2/III
28 JUNE 1976
0.05 ABS, PERIOD 5
AUTO GAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
BOTTOM?
2/III 27m
Mitex
4l
0.05
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1


cary instruments / a varian subsidiary
LJS-CHL Spring
CVB-UT 1976
NAN-bot 2/III
28 JUNE 1976
0.05 ABS, PERIOD 5
AUTO GAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
2/III 4/4
NANO
63m 32t
0.05
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1


LJO-CHL Spring
CVB-UT 1976
FPL-1/2pz 2/III
28 JUN 76
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1/2pz
2/III
NITex
27m 1/t
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710nm


LJP-CHL Spring
NAN-1/2pz
CVB-UT 2/III
28 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1/2pz
2/III
NONO
27m 32t
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690

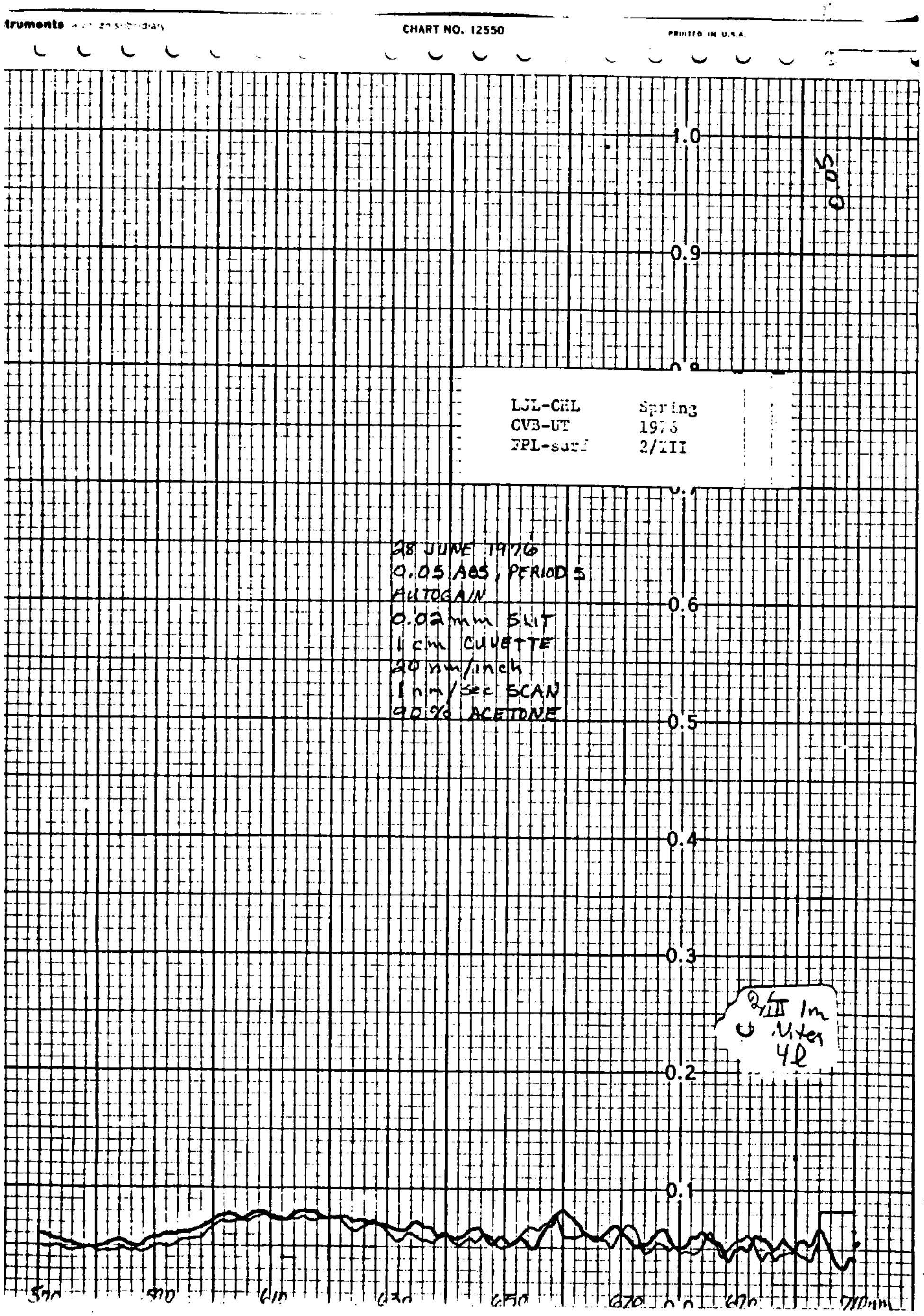
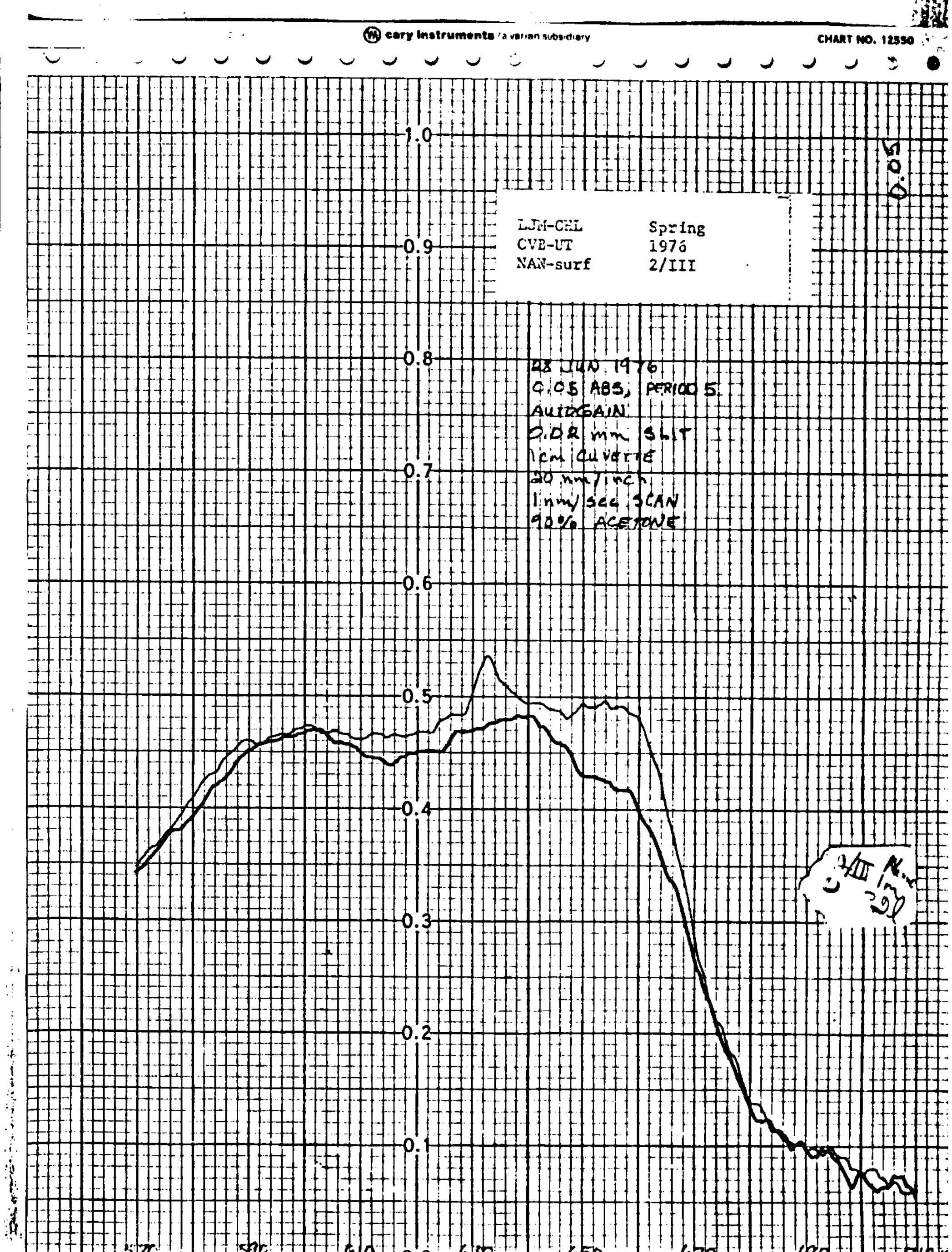
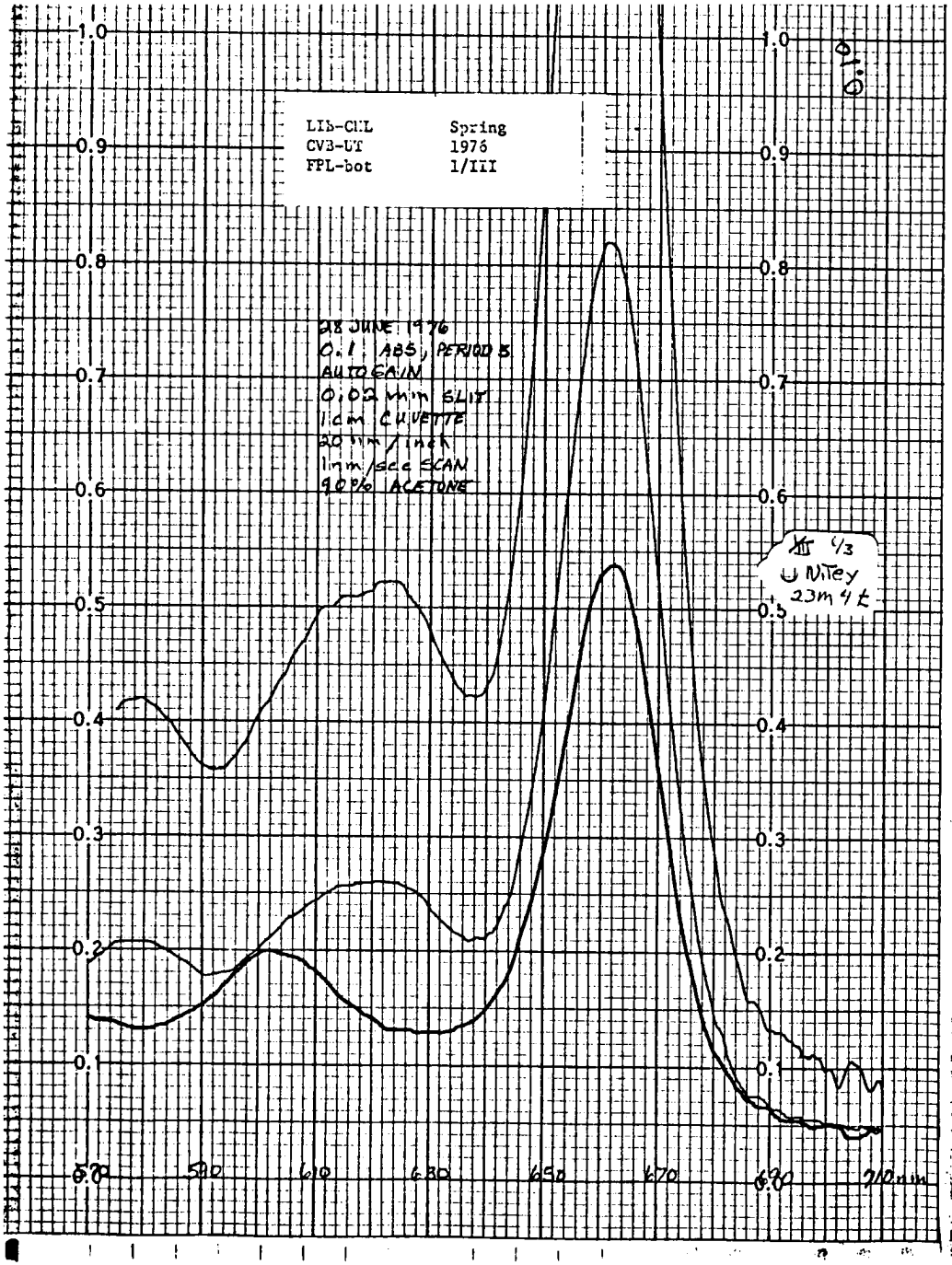


CHART NO. 12550
PRINTED IN U.S.A.
1.0
0.9
0.6
0.5
0.4
0.3
0.2
0.1
0.05
LJL-CHL Spring
CVB-UT 1976
FPL-surf 2/III
28 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE


cary instruments / a varian subsidiary
CHART NO. 12550
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
LJM-CHL Spring
CVB-UT 1976
NAN-surf 2/III
28 JUN 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE


LIB-CHL Spring
CVB-UT 1976
FPL-bot 1/III
28 JUNE 1976
0.1 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
XIII 1/3
U Nitey
23m 4 t
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
610
630
650
670
690
710 nm

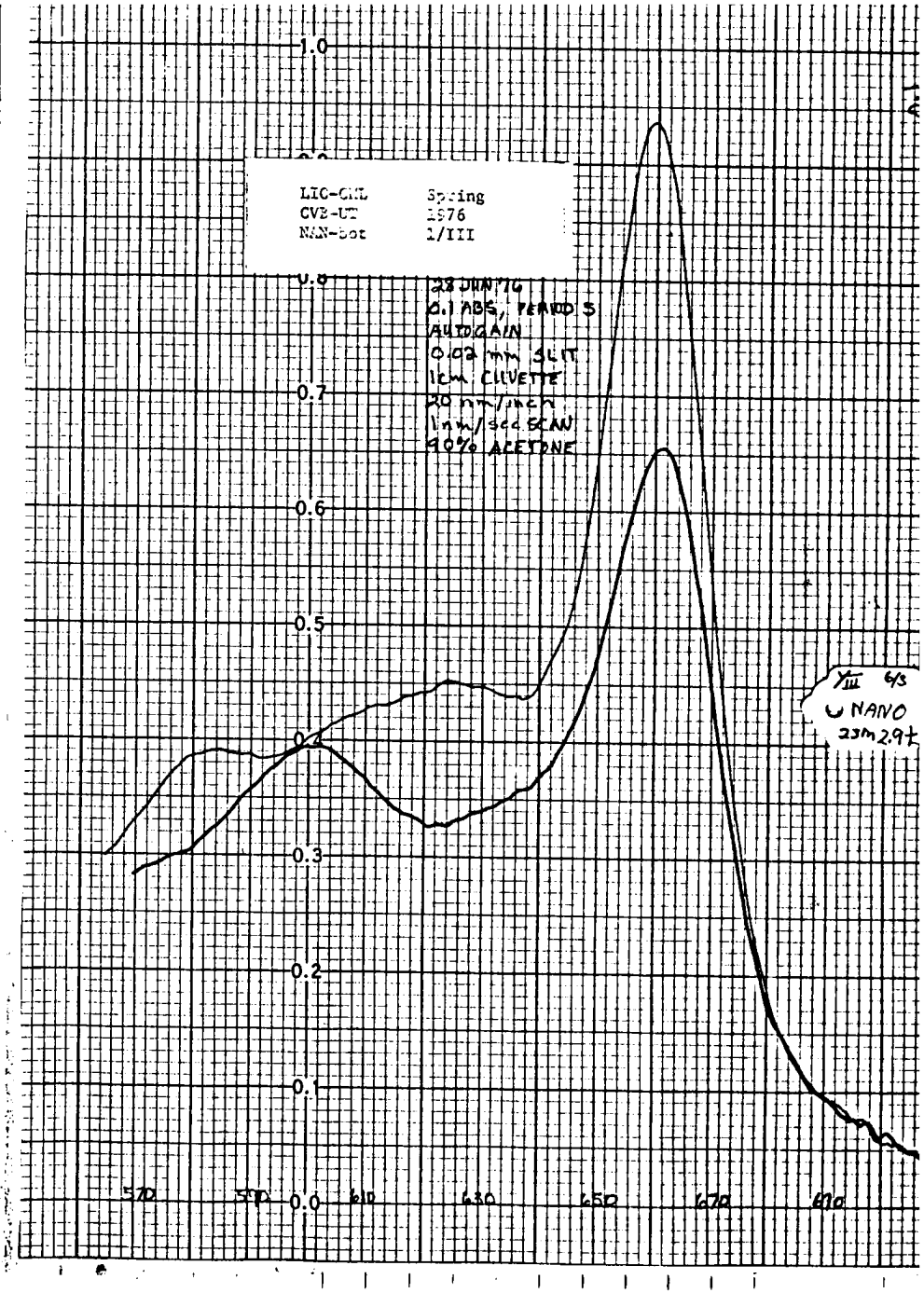
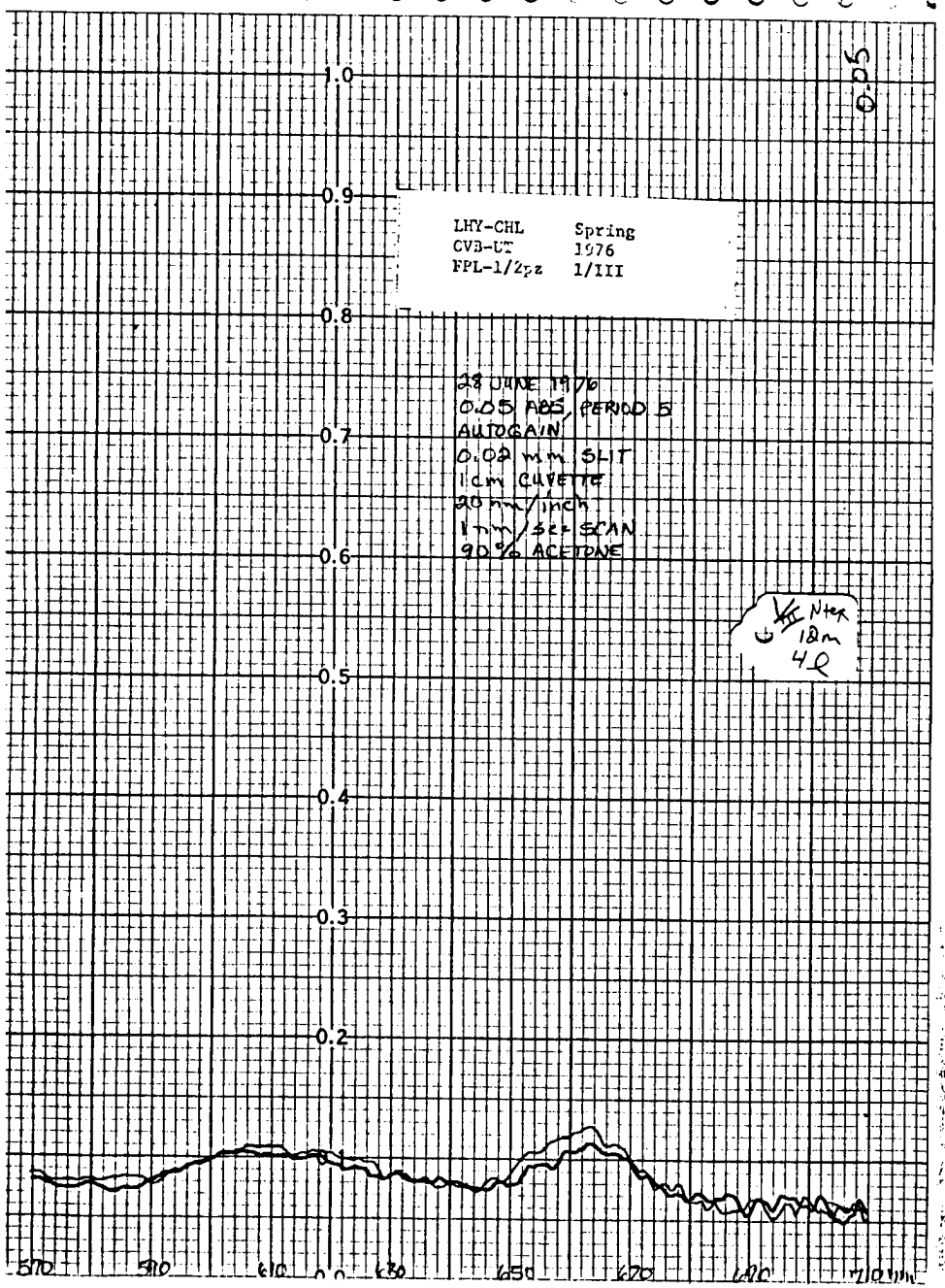
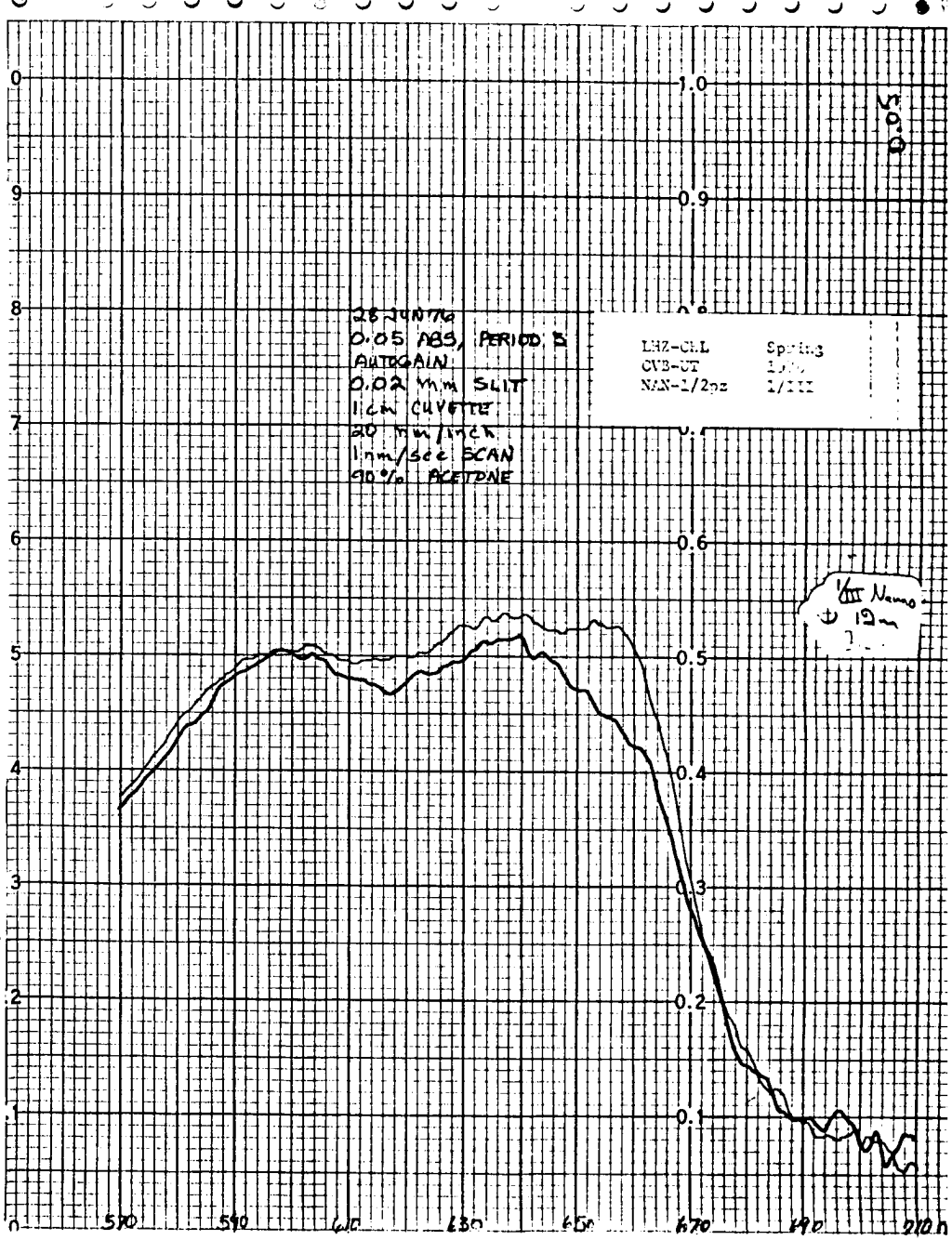

LIC-CHL Spring
CVB-UT 1976
NAN-bot 1/III
28 JUN 76
0.1 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
XIII 6/3
U NANO
23m 2.9t
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
610
630
650
670
690

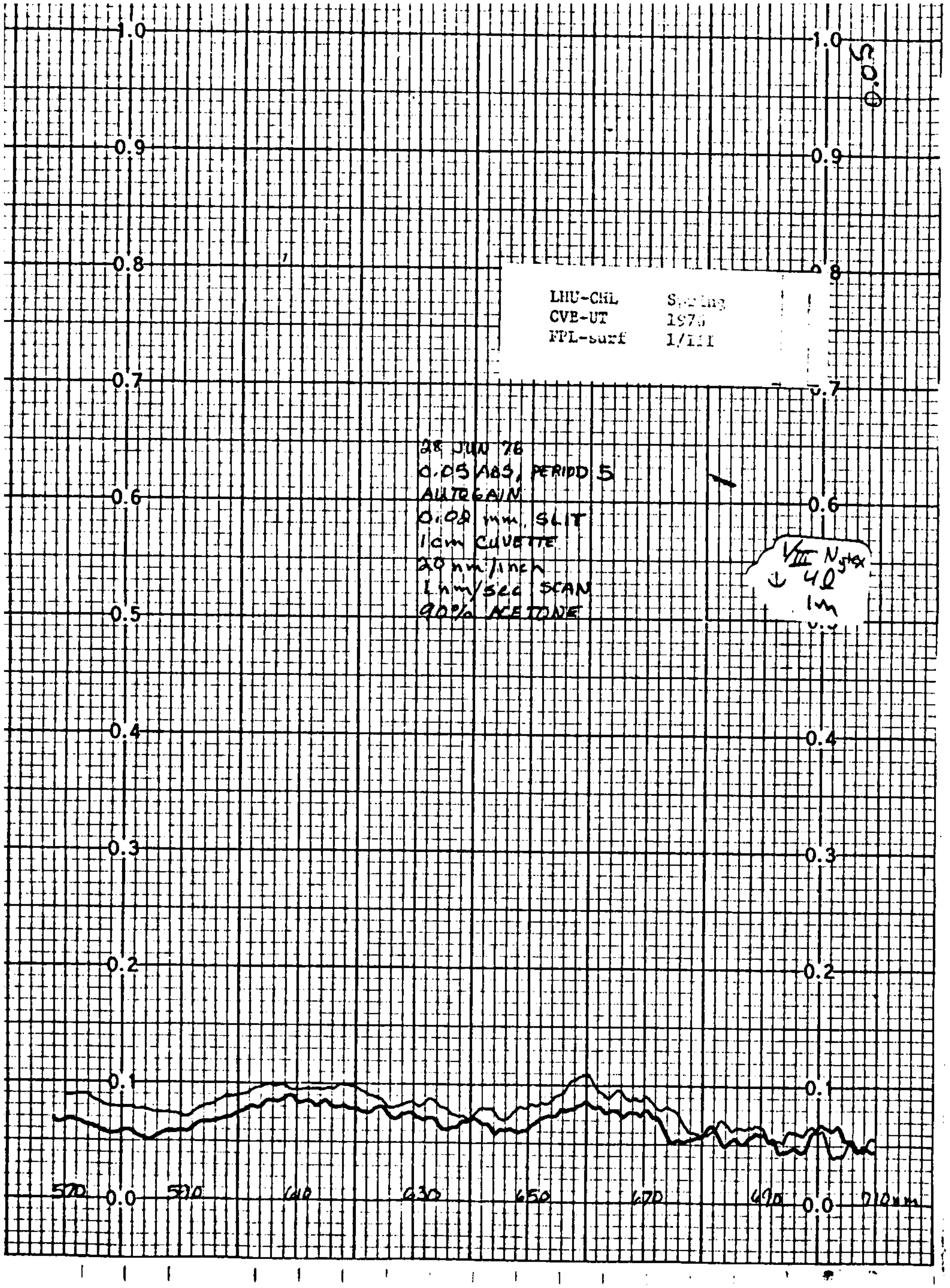
CHART NO. 12550

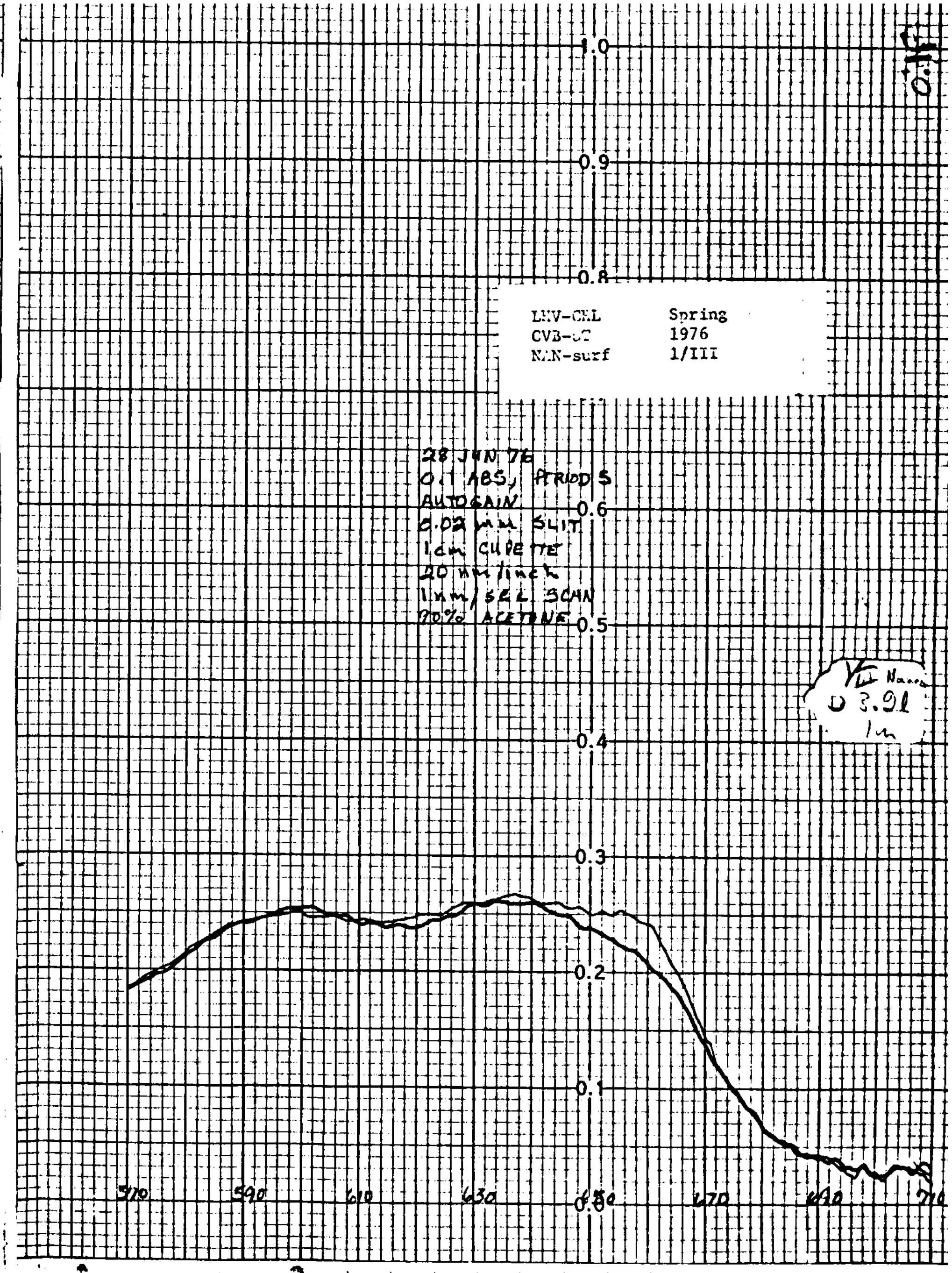
PRINTED IN U.S.A.

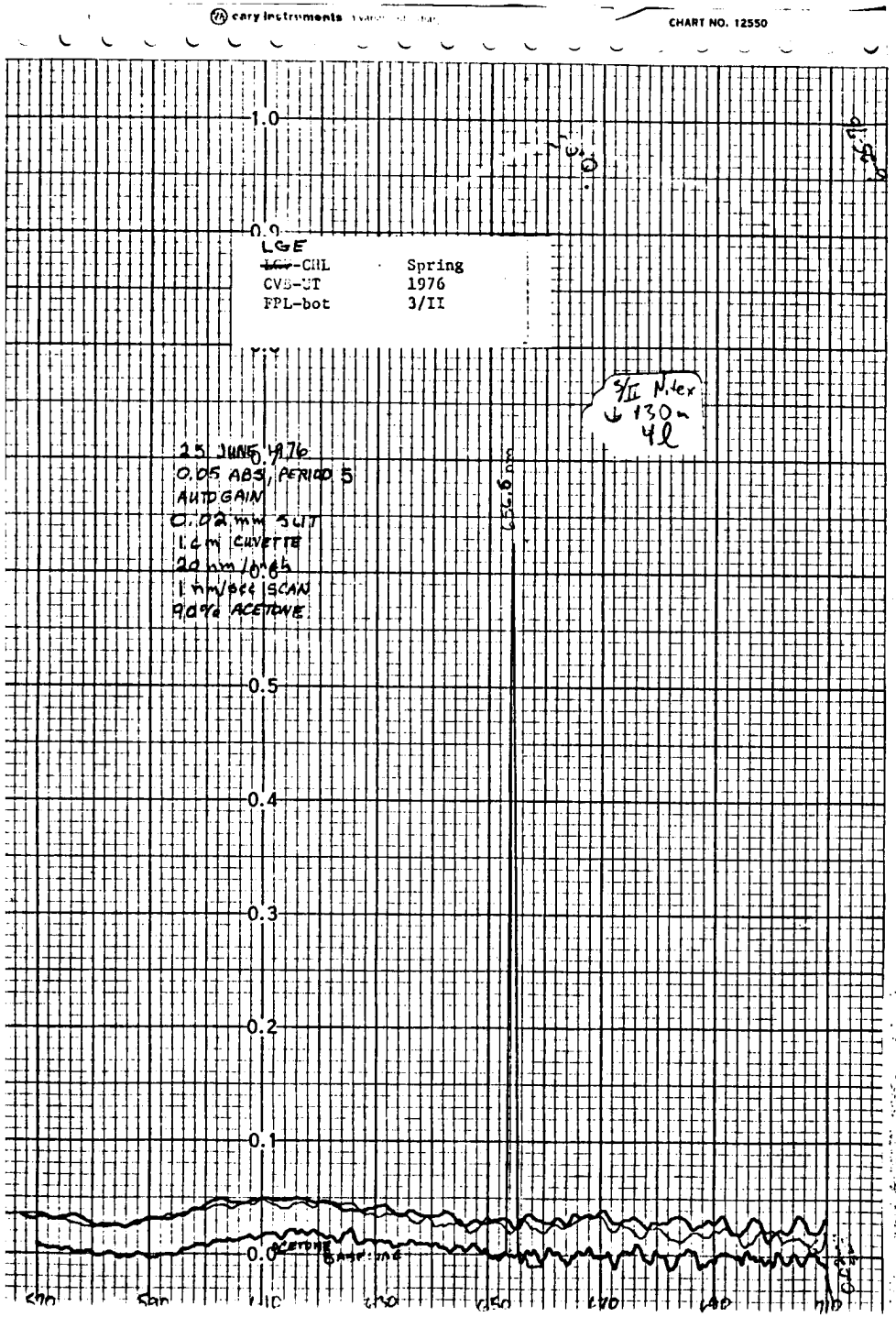
cary instruments a varian subsidiary

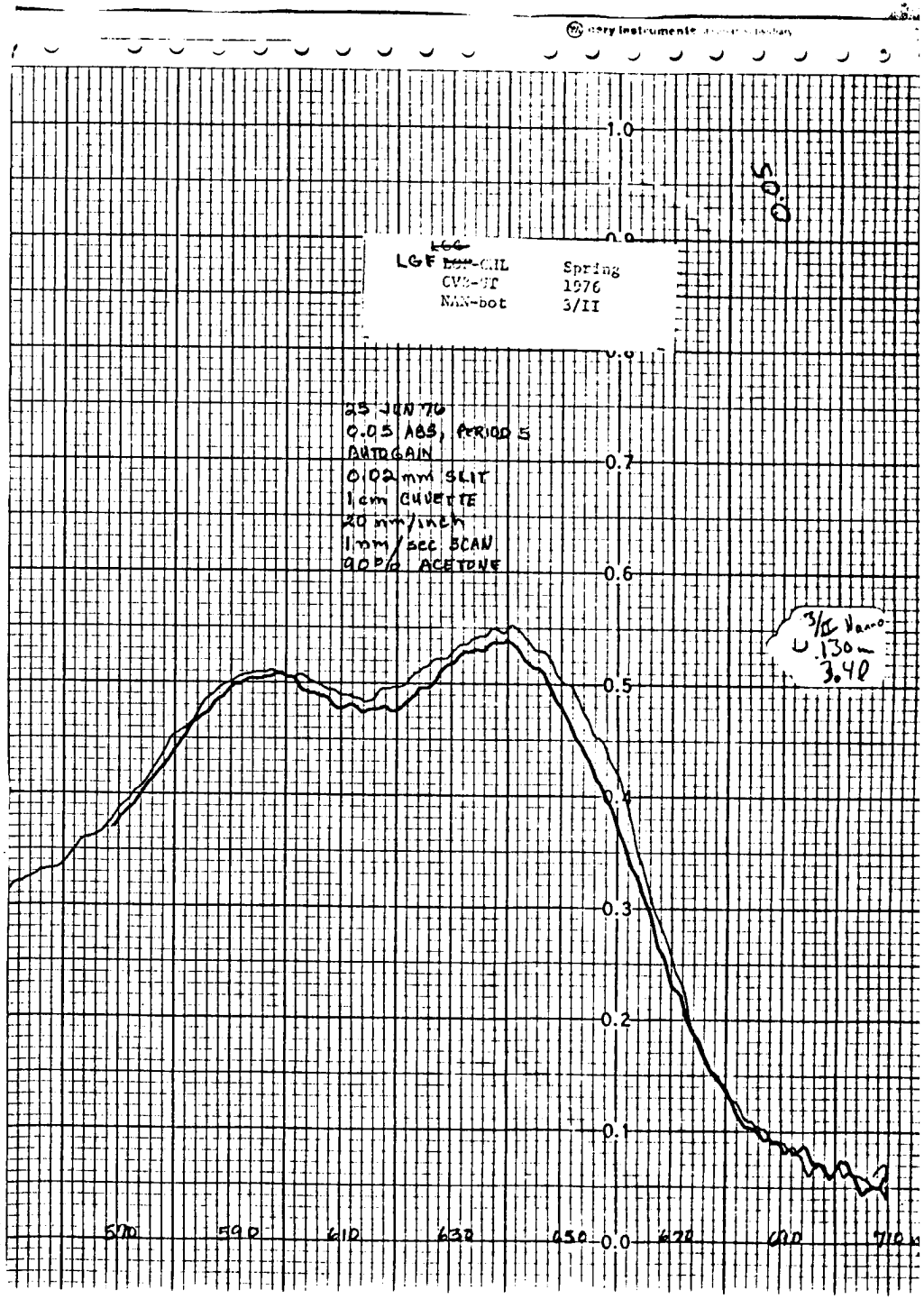


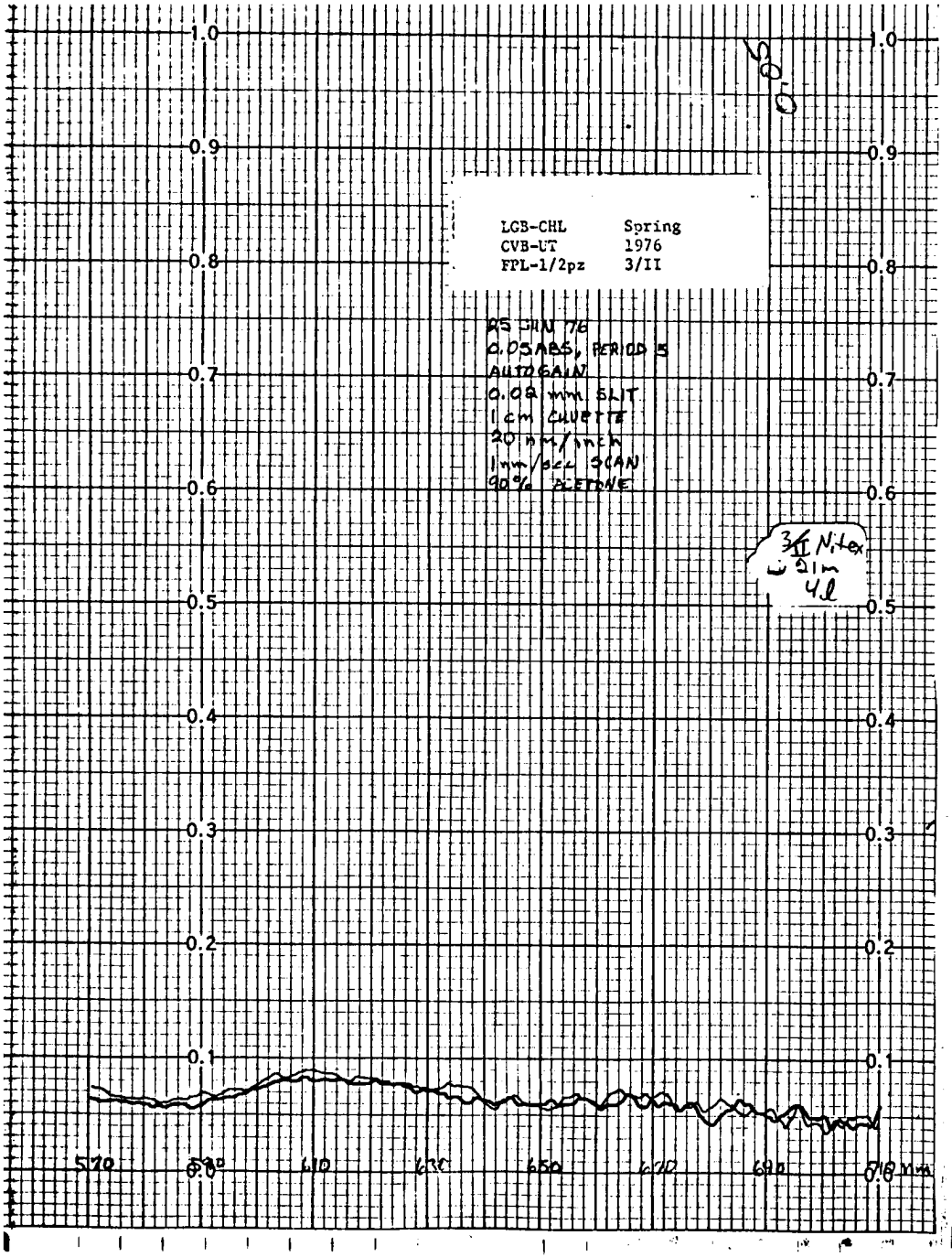


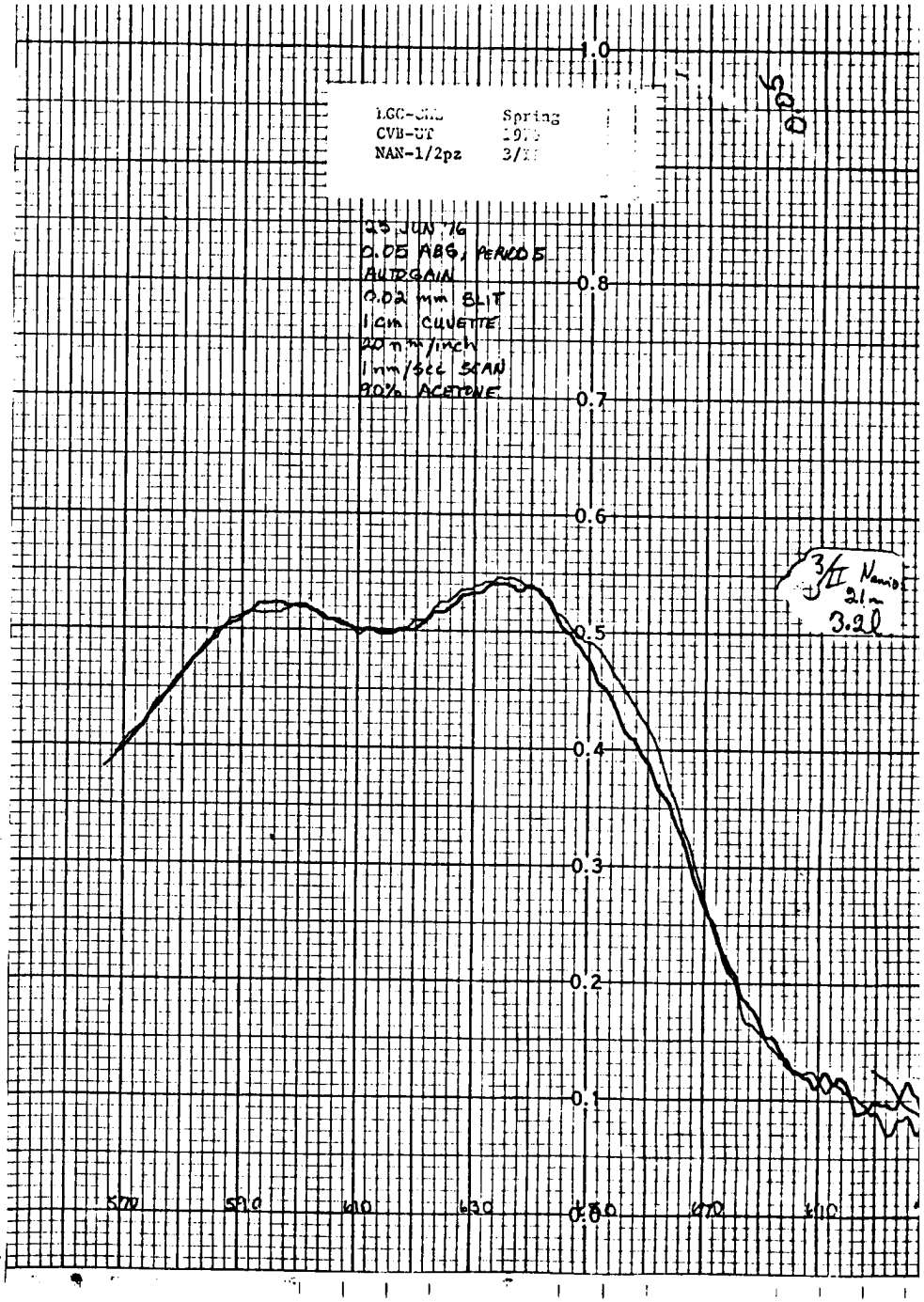

LHU-CHL
CVB-UT
FPL-surf
Spring
1/III
28 JUN 76
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
0.05

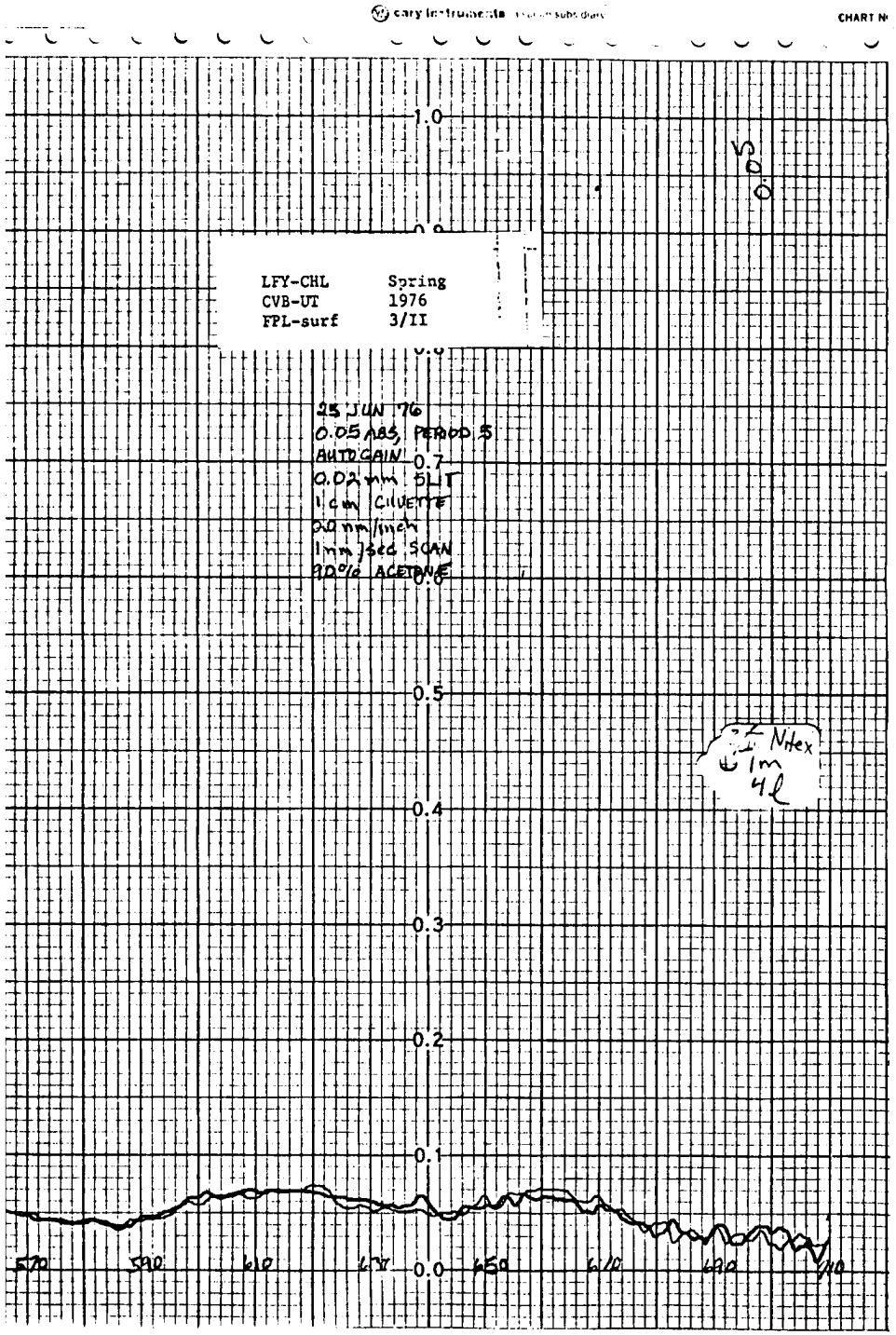

LHV-CHL
CVB-UT
NAN-surf
Spring
1976
1/III
28 JUN 76
0.1 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE


cary instruments
CHART NO. 12550
LGE
~~LGF~~-CHL Spring
CVB-UT 1976
FPL-bot 3/II
3/II N.lex
↓ 130~
4l
25 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.5
0.4
0.3
0.2
0.1
0.0
ACETONE
BASELINE


cary instruments
LGF ~~LGG~~ ~~LGF~~-CHL Spring
CVB-UT 1976
NAN-bot 3/II
25 JUN 76
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
3/II Nanno
↓ 130~
3.4l
1.0
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
630
650
670
710


LGB-CHL Spring
CVB-UT 1976
FPL-1/2pz 3/II
25 JUN 76
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1 cm CUVETTE
20 nm/inch
1 mm/sec SCAN
90% ACETONE
3/II Nitex 21m 4l
570
590
610
630
650
670
690
nm


LGC-CHL Spring
CVB-UT 1976
NAN-1/2pz 3/II
25 JUN 76
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1 cm CUVETTE
20 nm/inch
1 mm/sec SCAN
90% ACETONE
3/II Nemoto 21m 3.2l
570
590
610
630
650
670
690


LFY-CHL Spring
CVB-UT 1976
FPL-surf 3/II
25 JUN 76
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1 cm CUVETTE
20 nm/inch
1 mm/sec SCAN
90% ACETONE
1.0
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
650
690
710

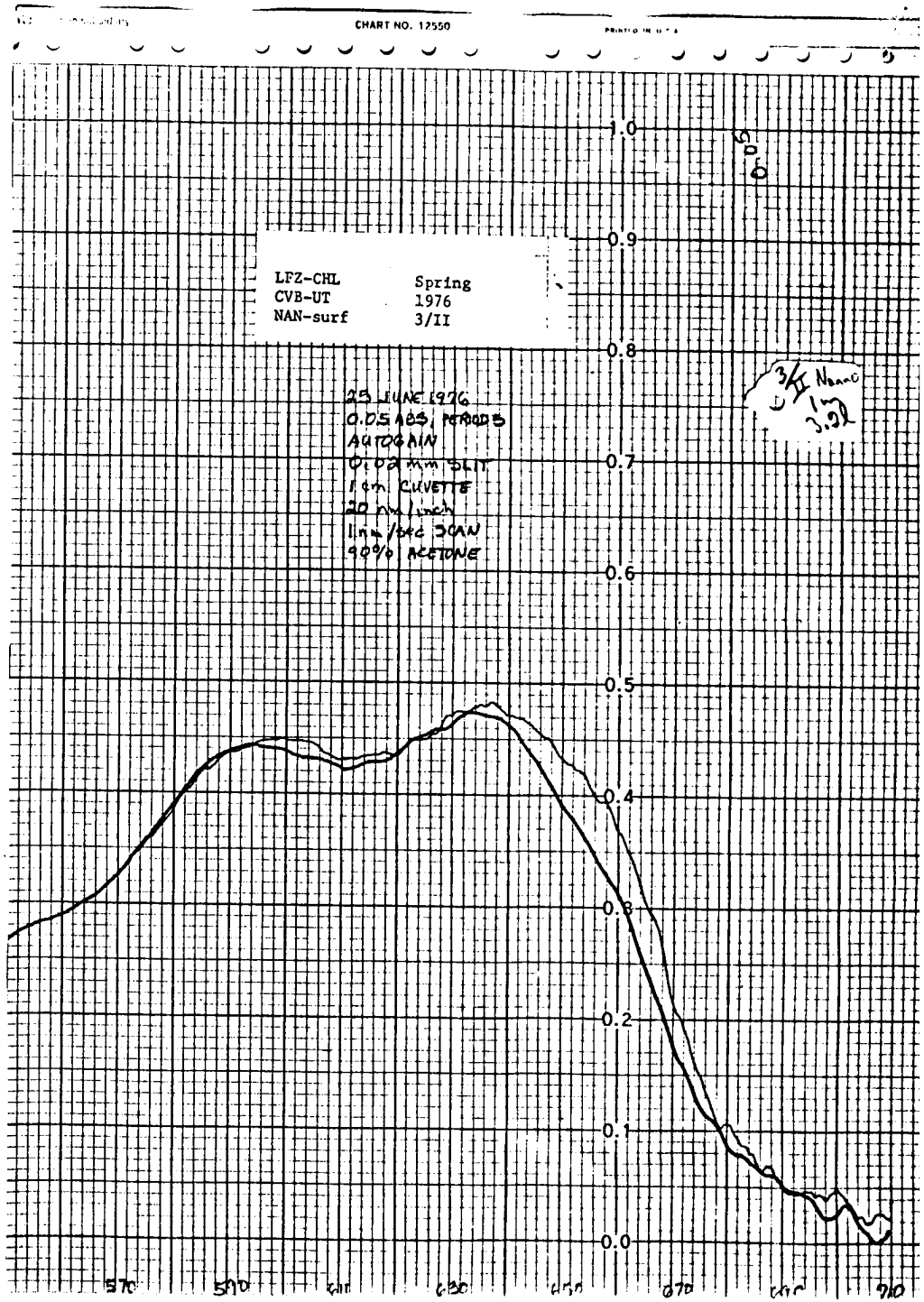
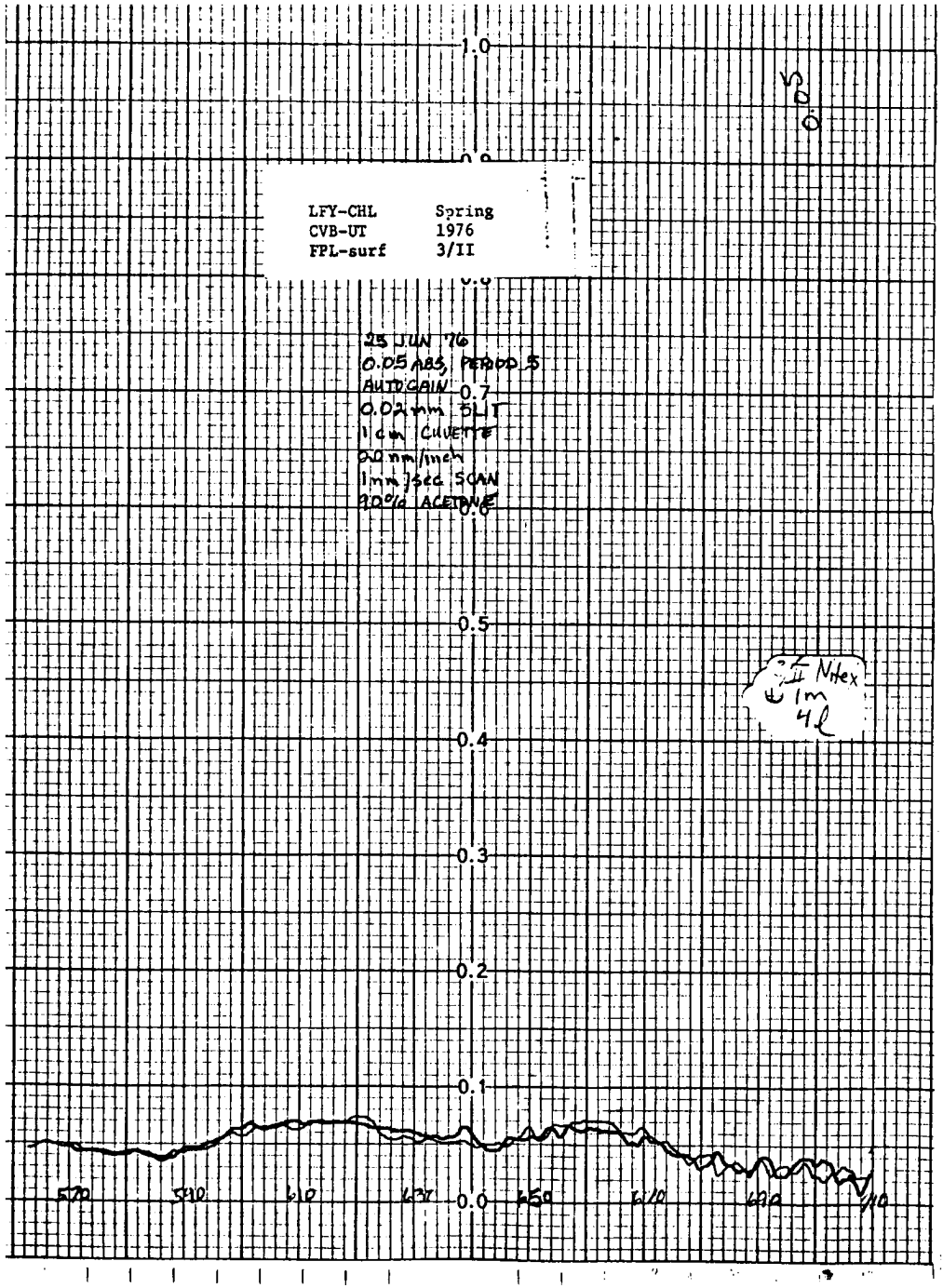
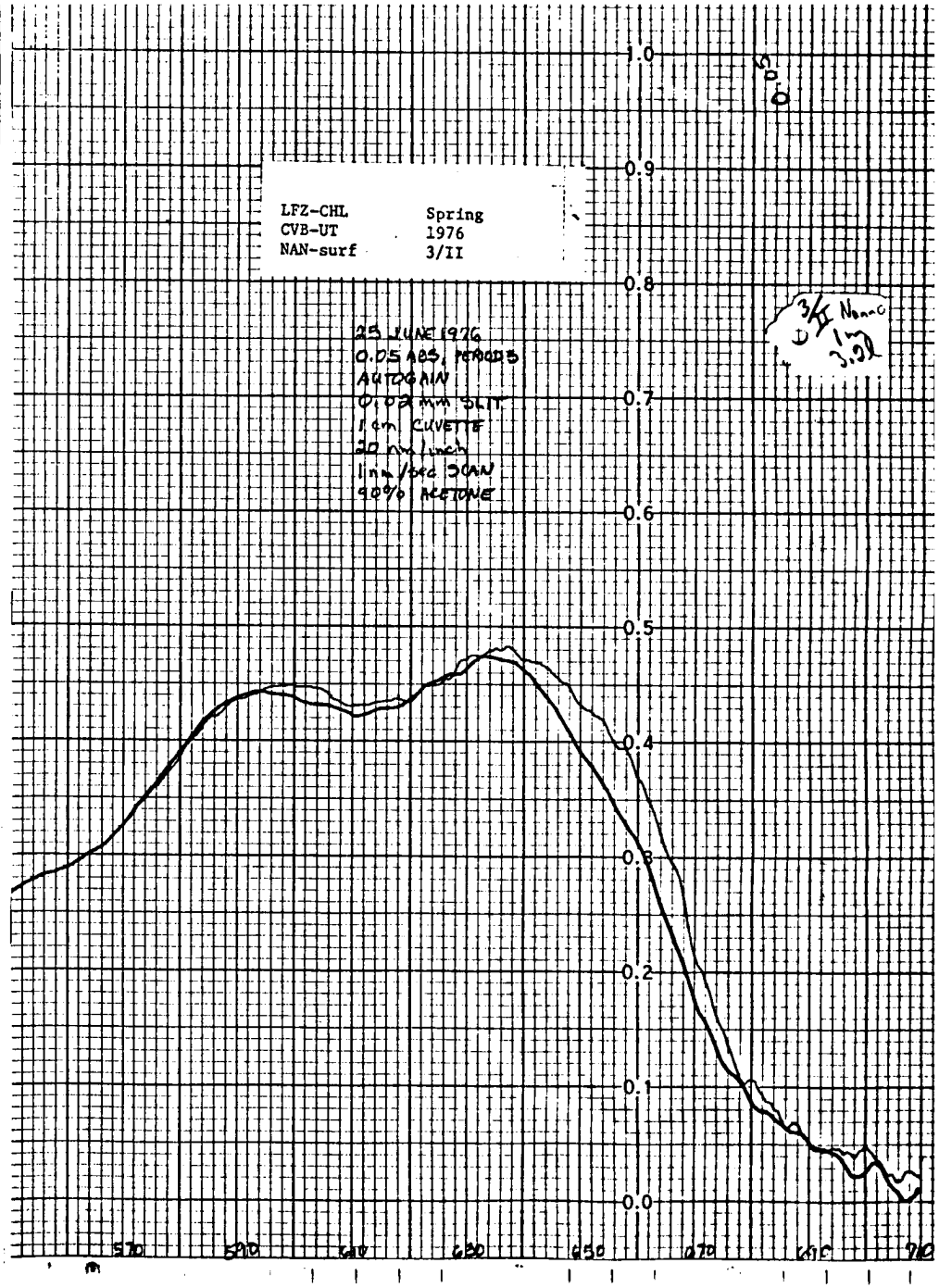


CHART NO. 12550
LFZ-CHL Spring
CVB-UT 1976
NAN-surf 3/II
25 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1 cm CUVETTE
20 nm/inch
1 mm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
630
650
670
710


LFY-CHL Spring
CVB-UT 1976
FPL-surf 3/II
25 JUN 76
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1 cm CUVETTE
20 nm/inch
1 mm/sec SCAN
90% ACETONE
3/II Nhex
1m
4l
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710


LFZ-CHL Spring
CVB-UT 1976
NAN-surf 3/II
25 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1 cm CUVETTE
20 nm/inch
1 mm/sec SCAN
90% ACETONE
3/II Nhex
1m
3.2l
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710

cary instruments / a varian subsidiary

CHART NO. 12550

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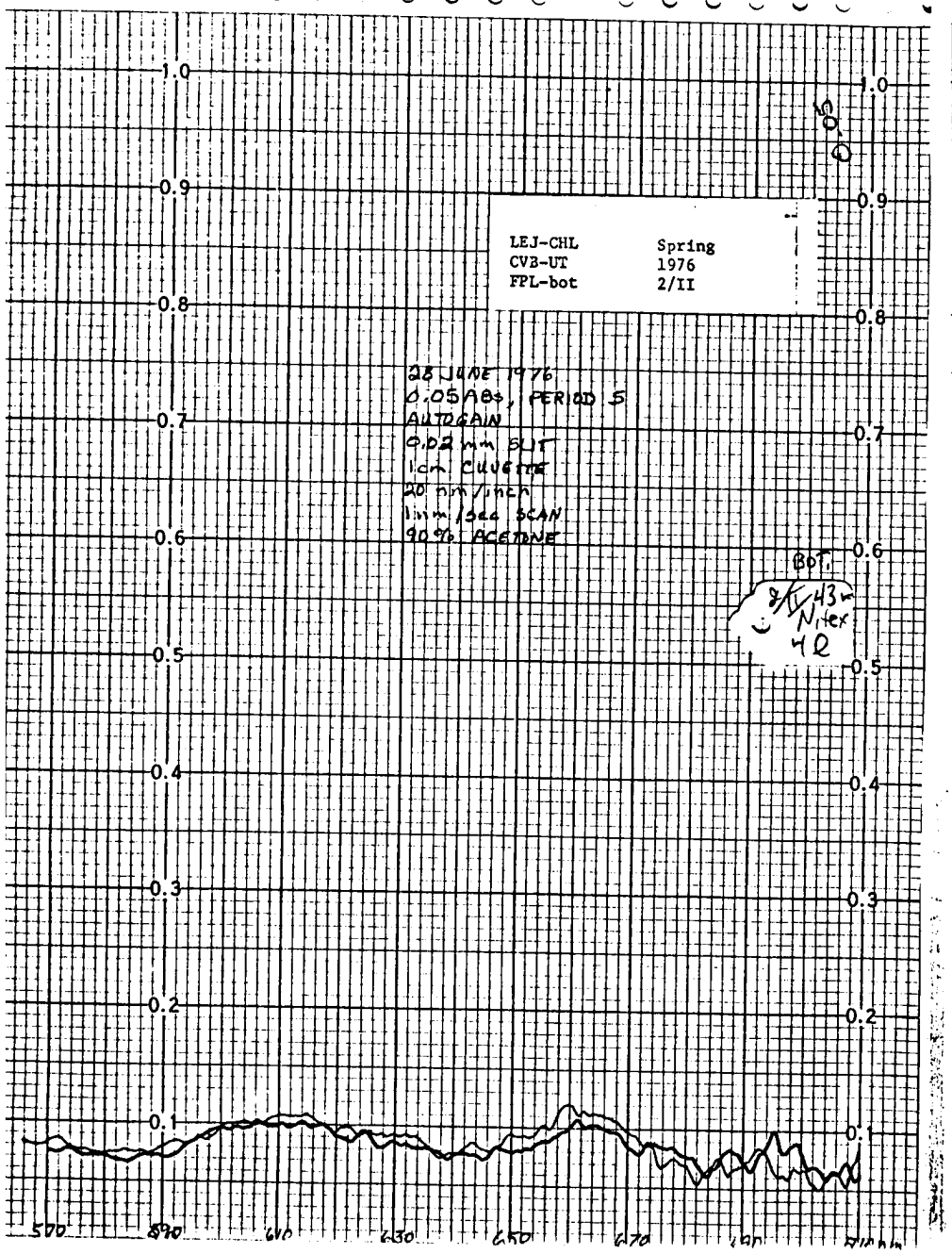
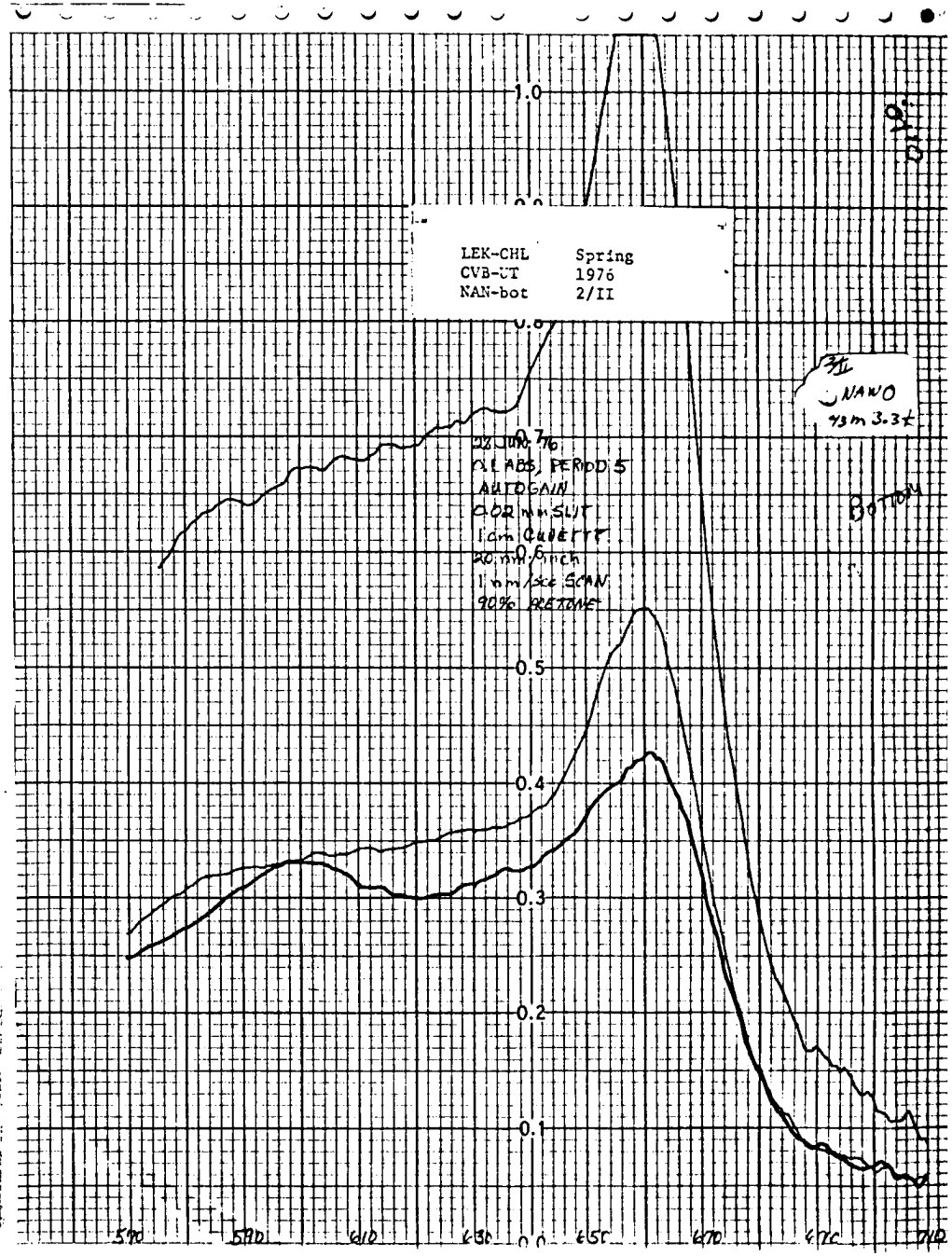
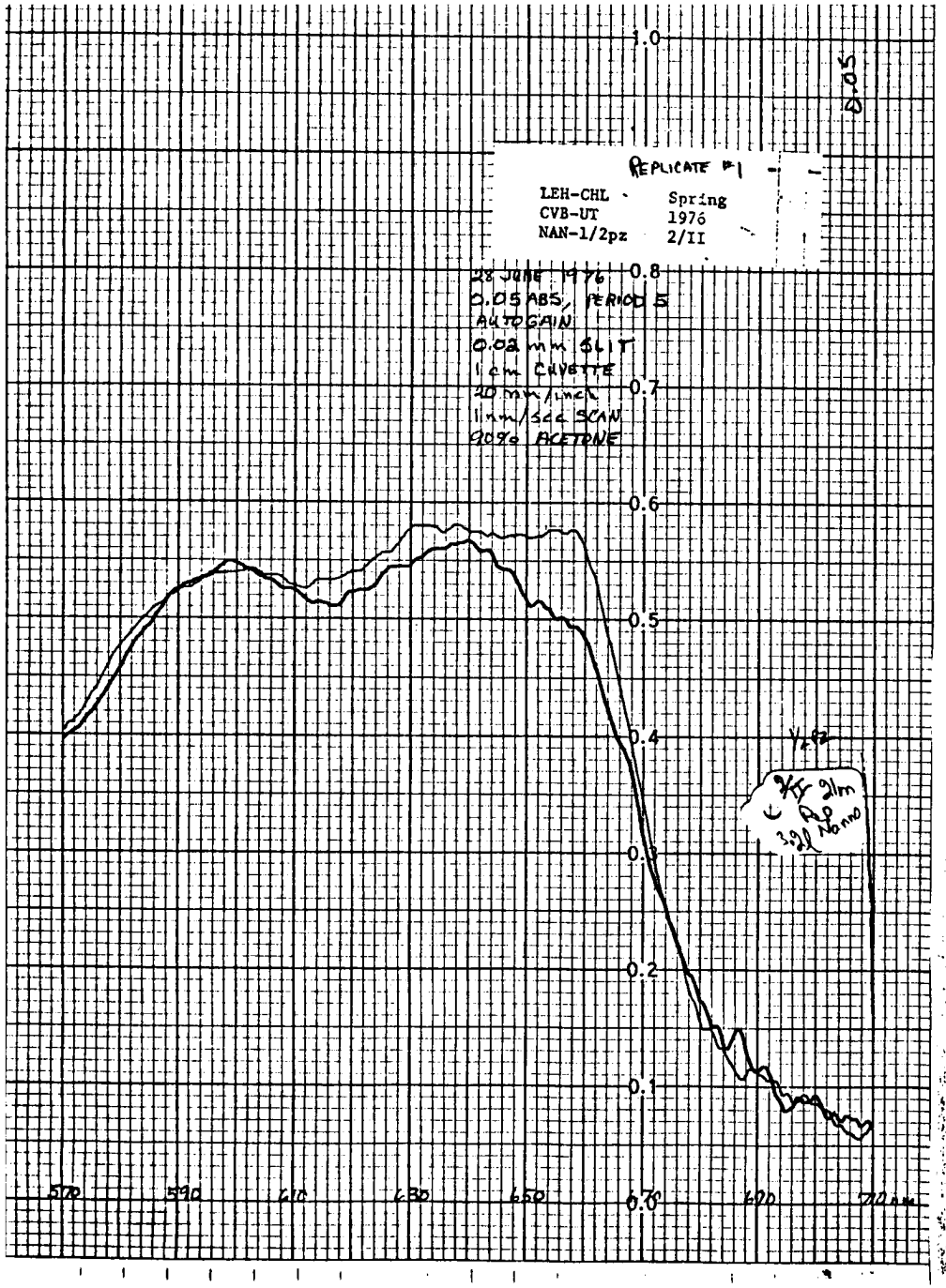
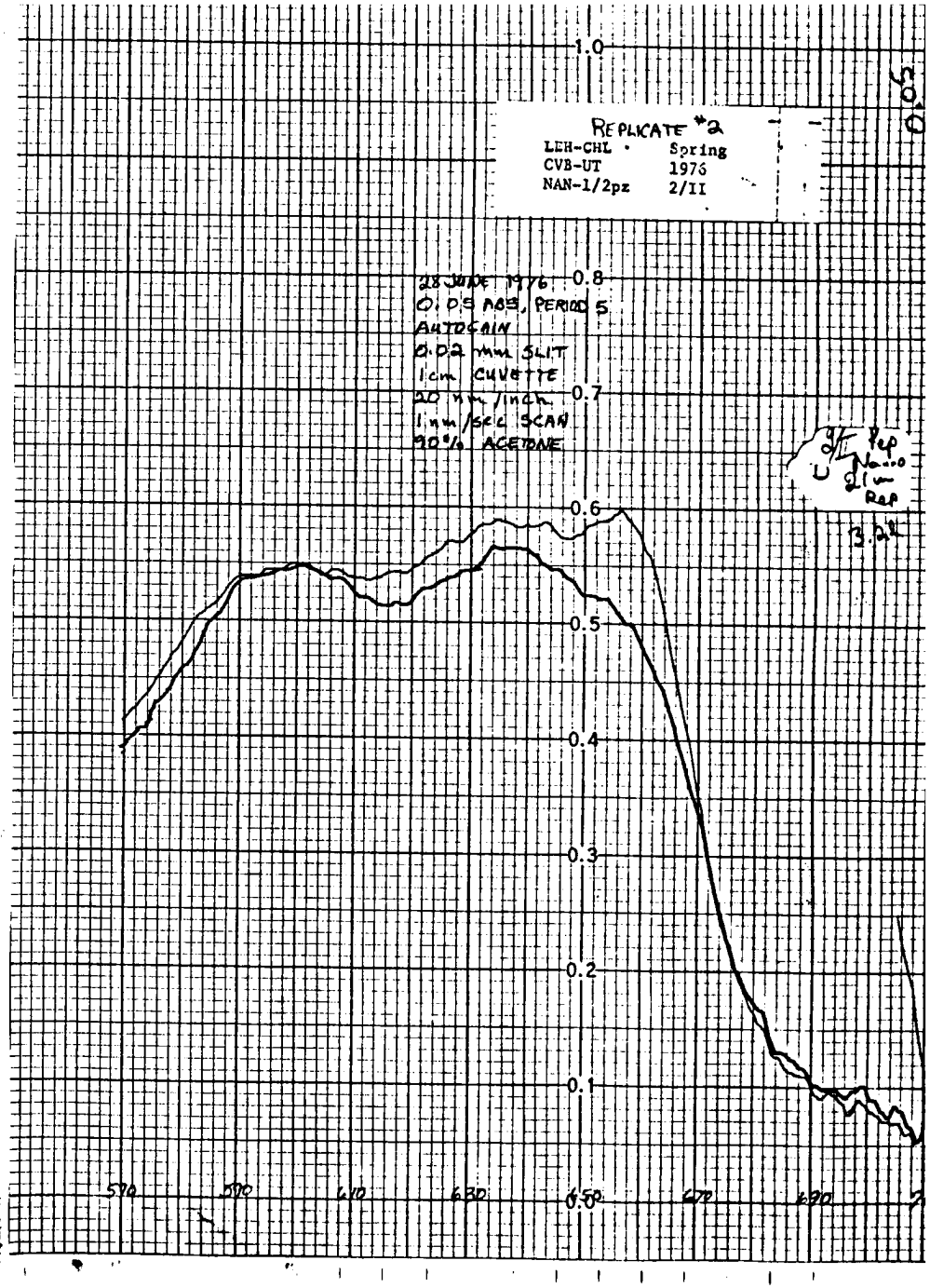
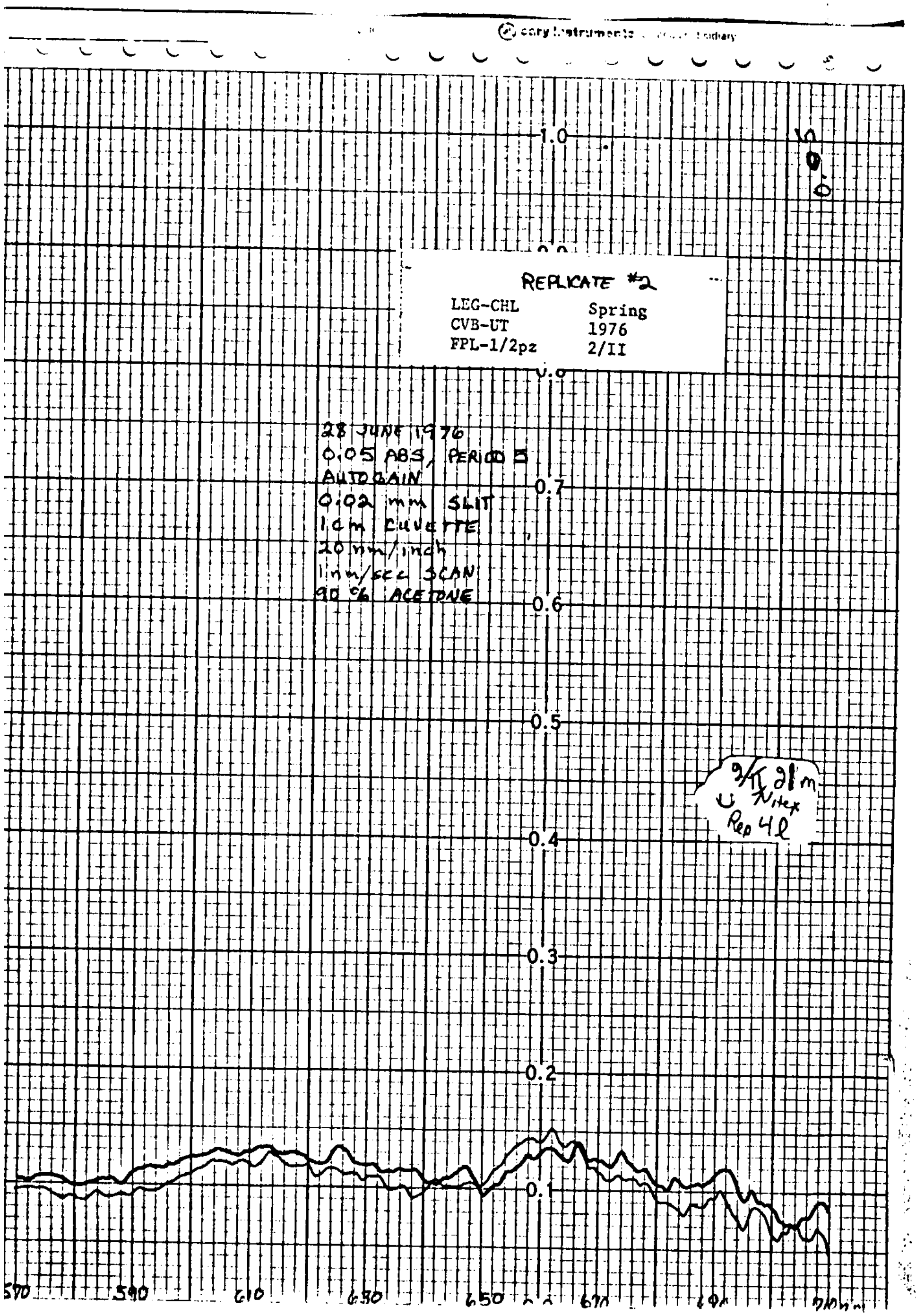


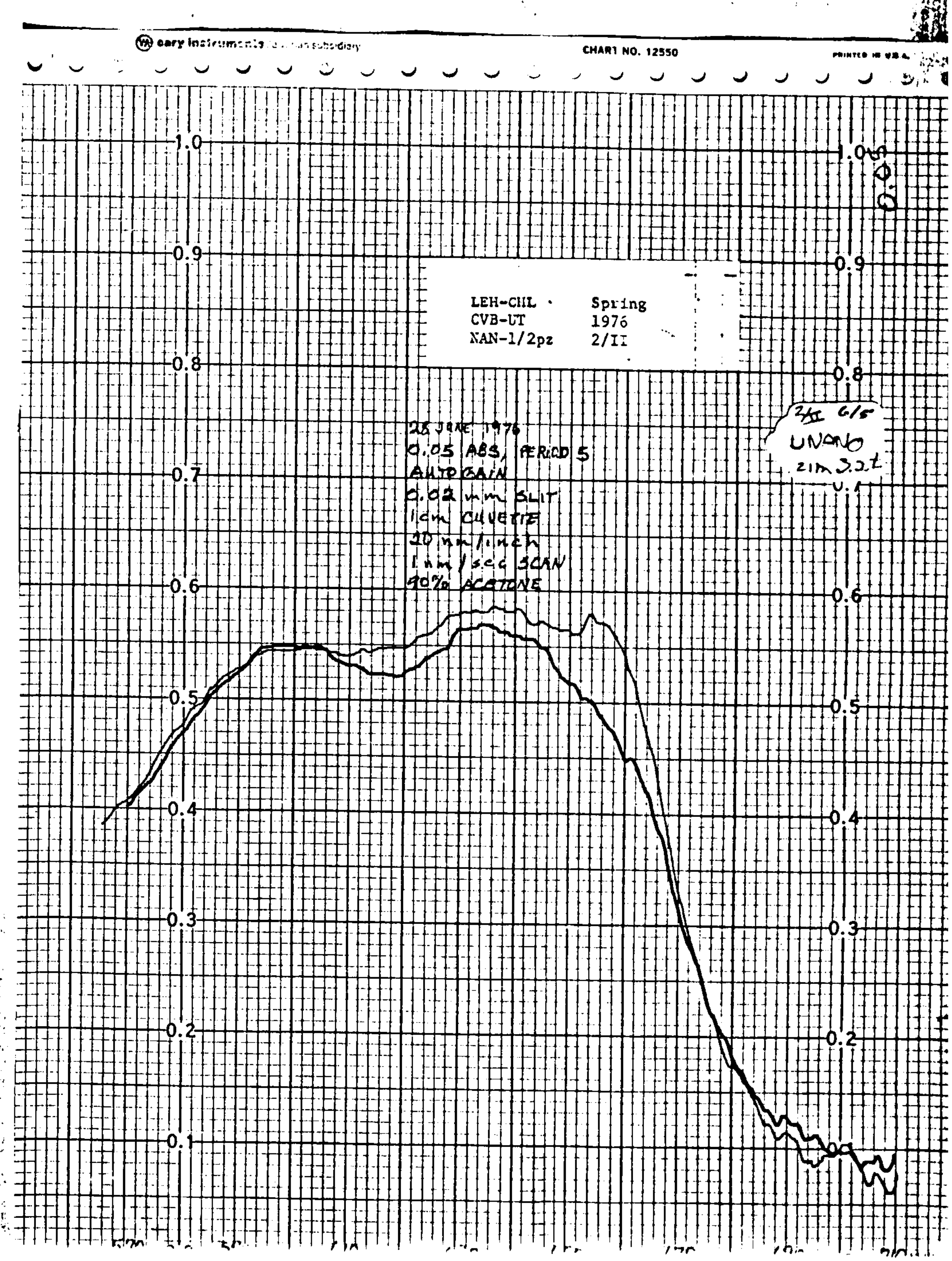
cary instruments / a varian subsidiary

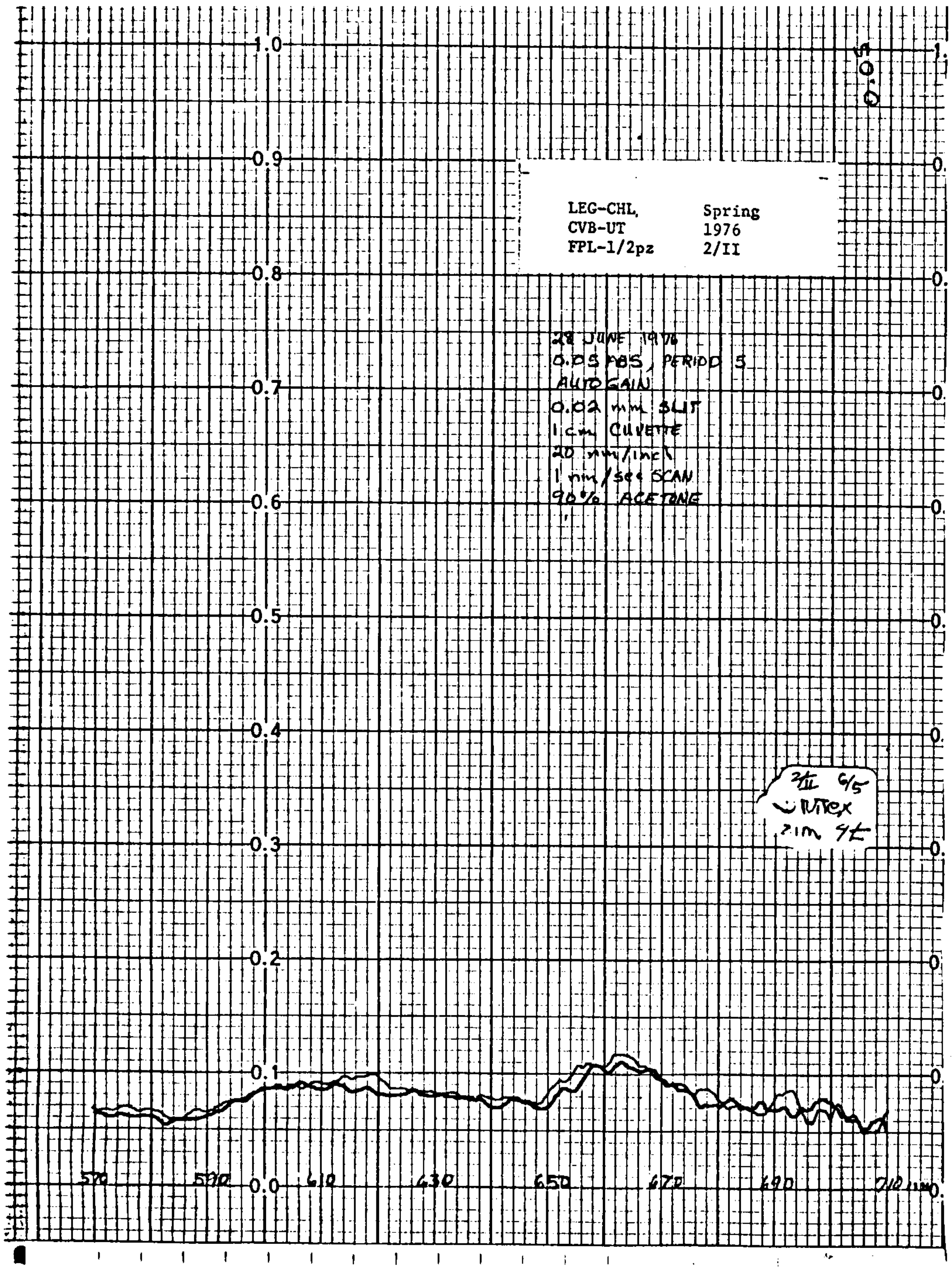



REPLICATE #1
LEH-CHL · Spring
CVB-UT 1976
NAN-1/2pz 2/II
28 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1 cm CUVETTE
20 mm/inch
1 nm/sec SCAN
90% ACETONE
1.0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 nm


REPLICATE #2
LEH-CHL · Spring
CVB-UT 1976
NAN-1/2pz 2/II
28 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1 cm CUVETTE
20 mm/inch
1 nm/sec SCAN
90% ACETONE
1.0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690


cary instruments
REPLICATE #2
LEG-CHL Spring
CVB-UT 1976
FPL-1/2pz 2/II
28 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
1.0
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670


cary instruments
CHART NO. 12550
LEH-CHL Spring
CVB-UT 1976
NAN-1/2pz 2/II
28 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1


1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
LEG-CHL, Spring
CVB-UT 1976
FPL-1/2pz 2/II
28 JUNE 1976
0.05 ABS, PERIOD 5
AUTO GAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
570
590
610
630
650
670
690
710 nm

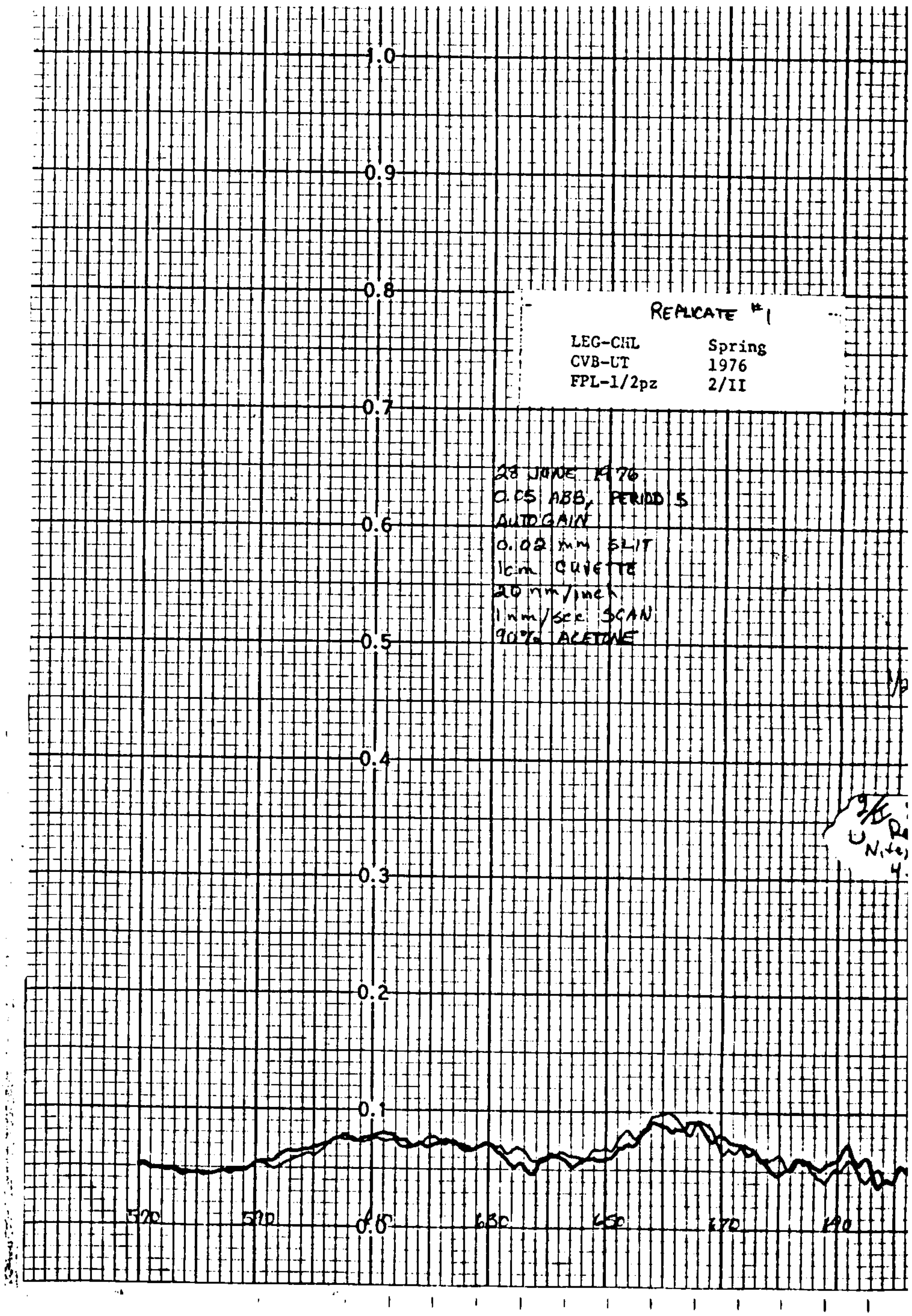

1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
REPLICATE #1
LEG-CHL Spring
CVB-UT 1976
FPL-1/2pz 2/II
28 JUNE 1976
0.05 ABS, PERIOD 5
AUTO GAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
570
590
630
650
670
690

CHART NO. 12550

PRINTED IN U.S.A.

REPLICATE #1

LEE-CHL	Spring
CVB-UT	1976
NAN-surf	2/II

28 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE

3/II
↓ Nano Rep
1M 3.2t

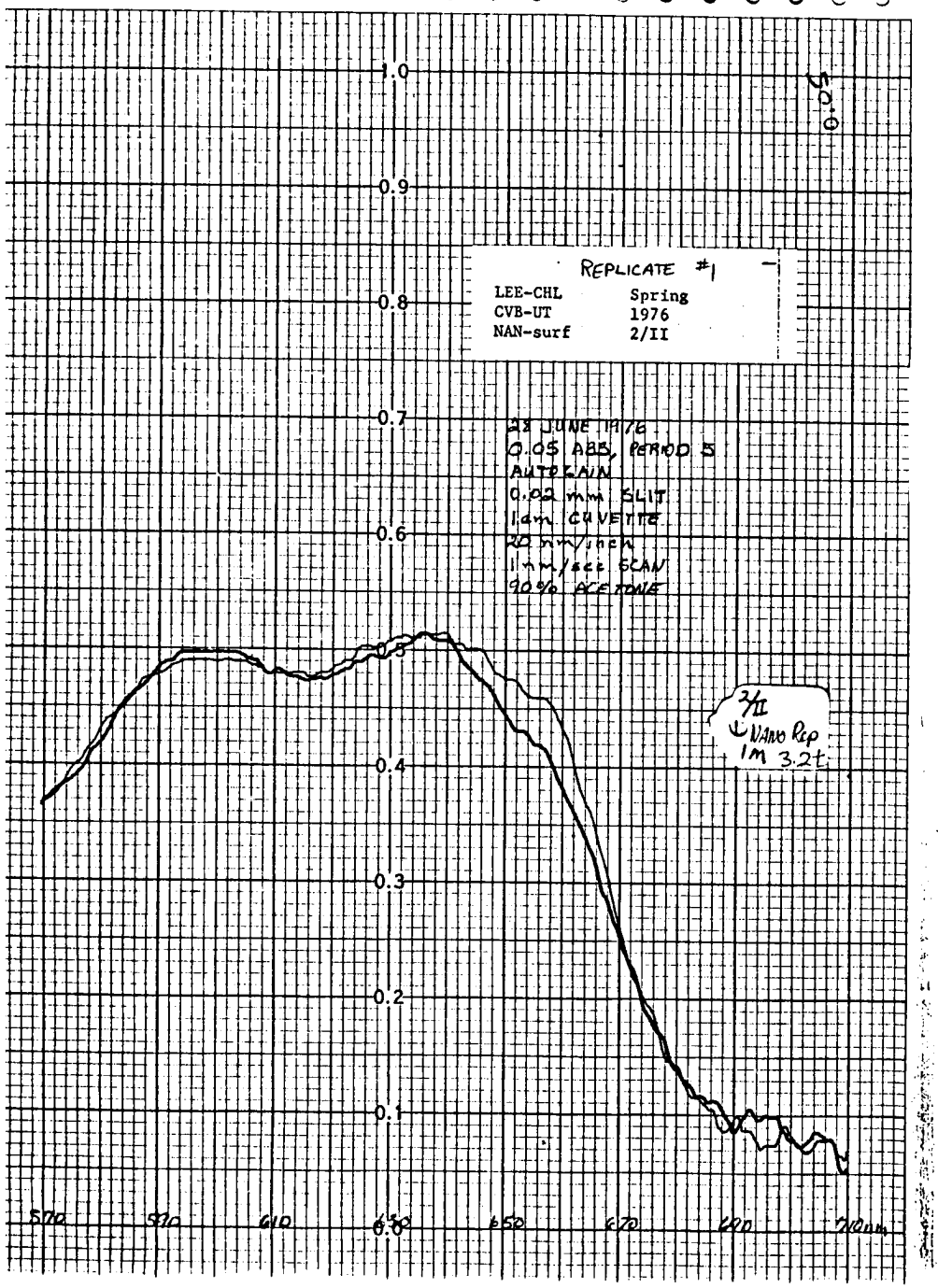


CHART NO. 12550

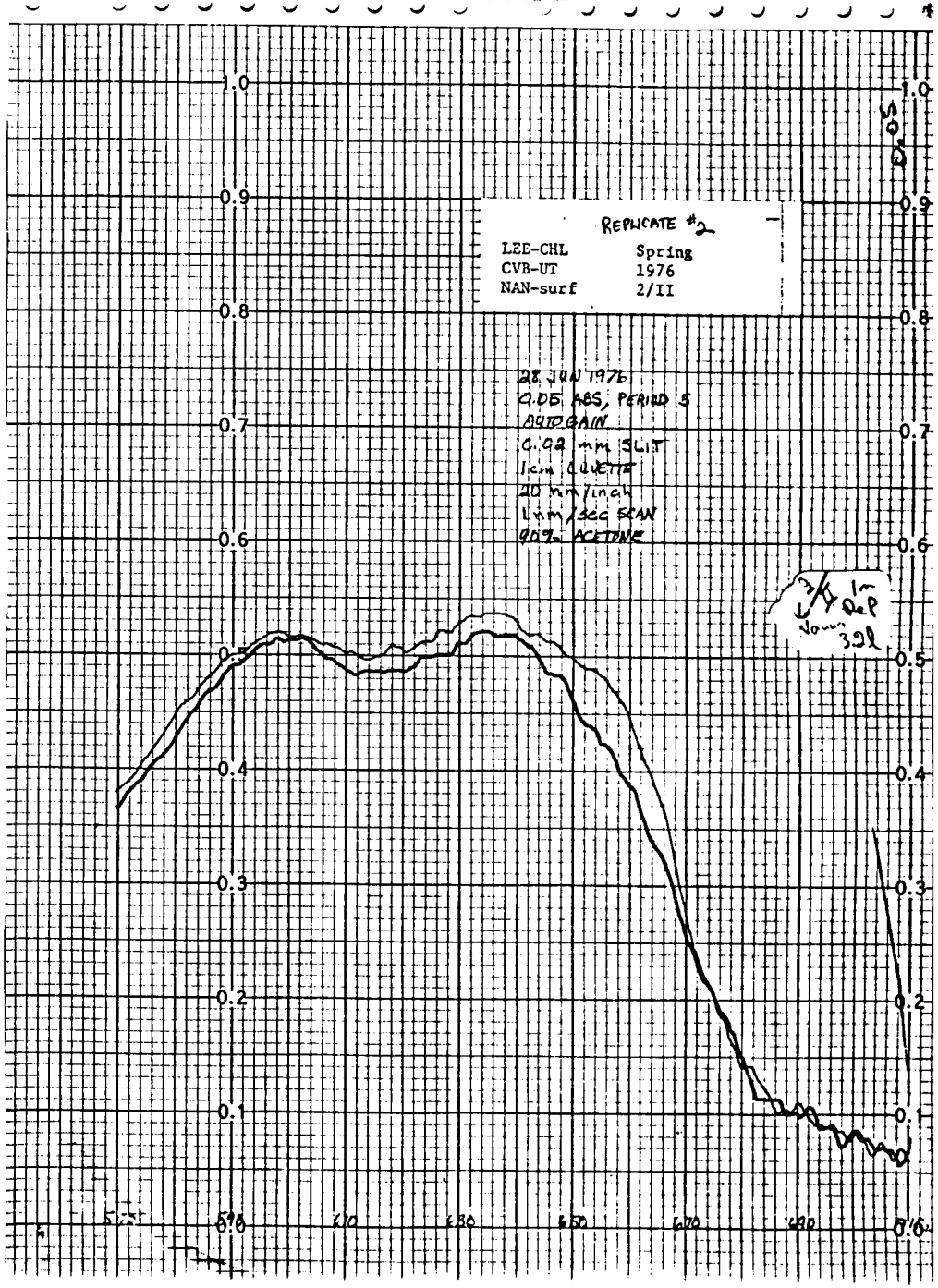
PRINTED IN U.S.A.

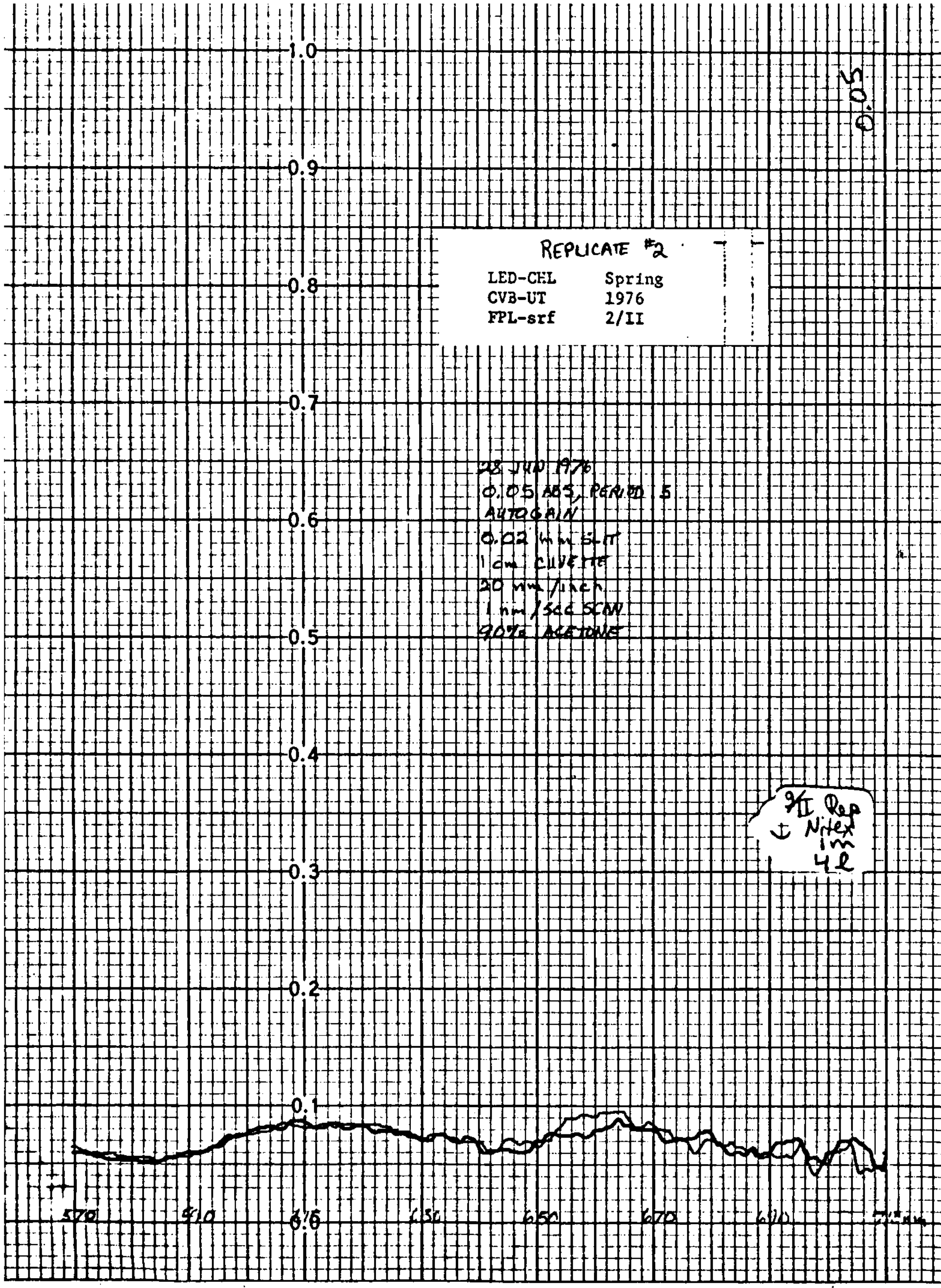
REPLICATE #2

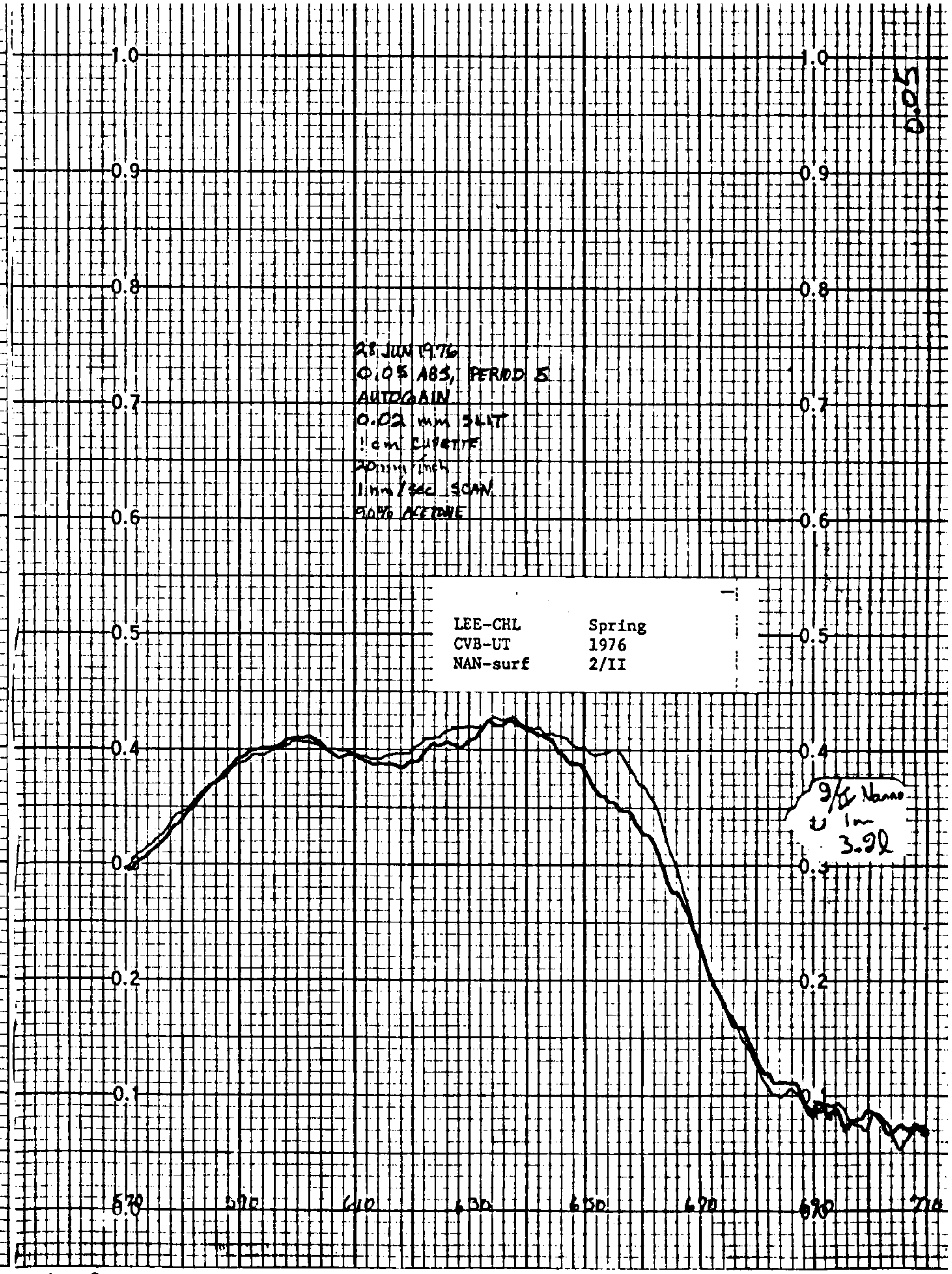
LEE-CHL	Spring
CVB-UT	1976
NAN-surf	2/II

28 JUN 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE

3/II 1M Rep
Nano 3.2t




REPLICATE #2
LED-CHL Spring
CVB-UT 1976
FPL-srf 2/II
28 JUN 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1 cm CUVETTE
20 mm/inch
1 nm/sec SCAN
90% ACETONE
9/II Rep
Nitex
1m
4l
0.05
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710 nm


28 JUN 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1 cm CUVETTE
20 mm/inch
1 nm/sec SCAN
90% ACETONE
LEE-CHL Spring
CVB-UT 1976
NAN-surf 2/II
9/II Nanno
1m
3.2l
0.05
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710

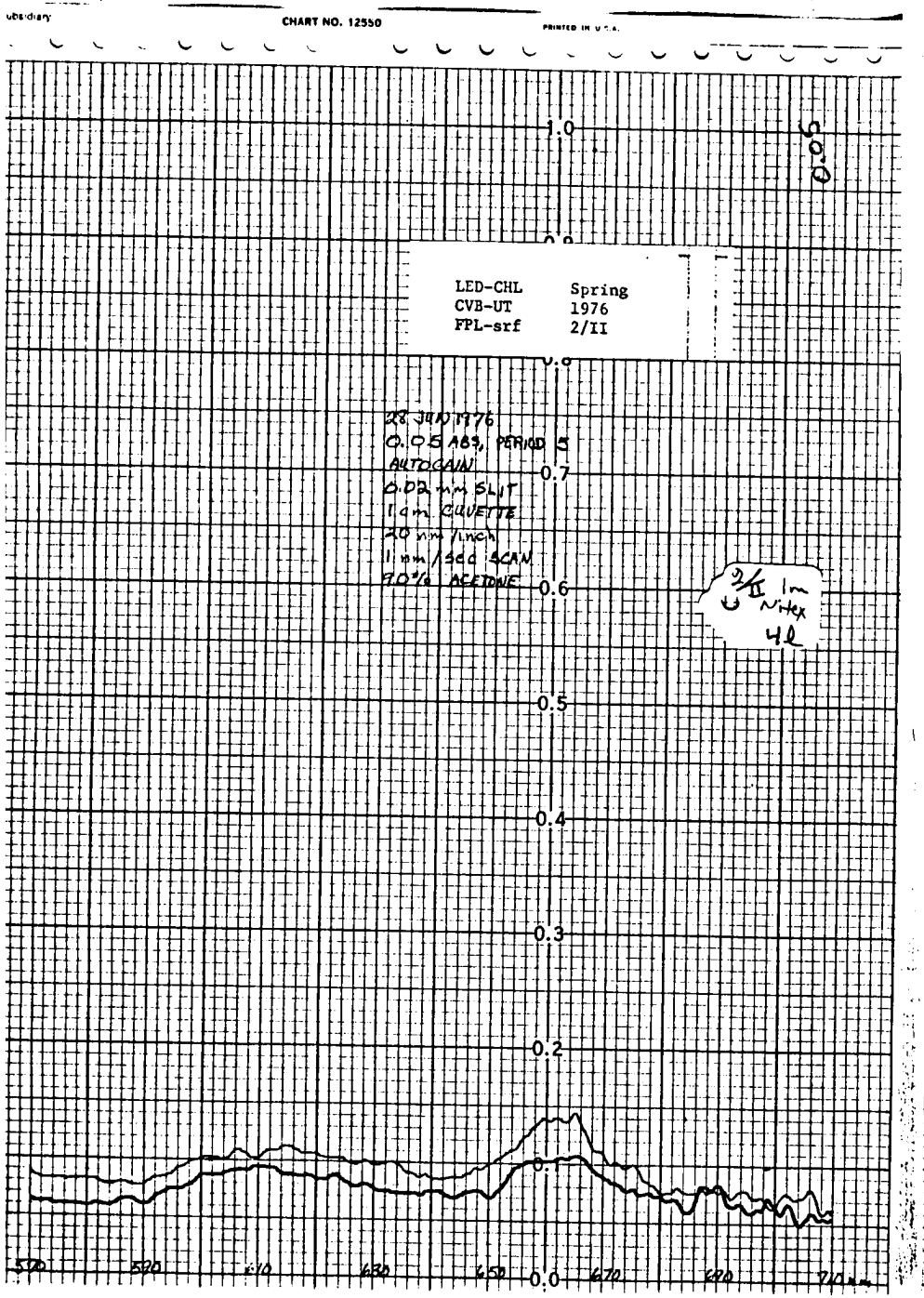
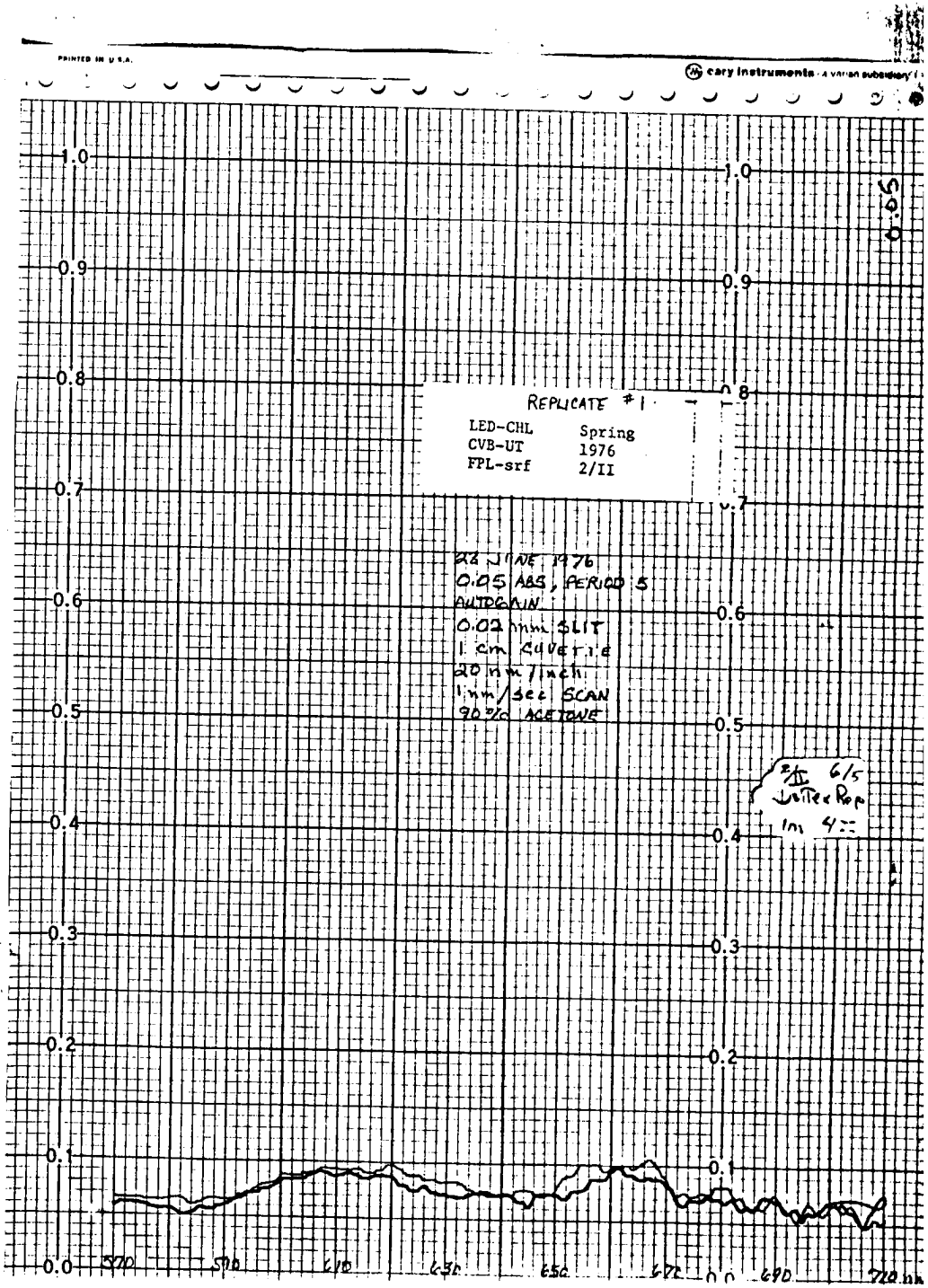
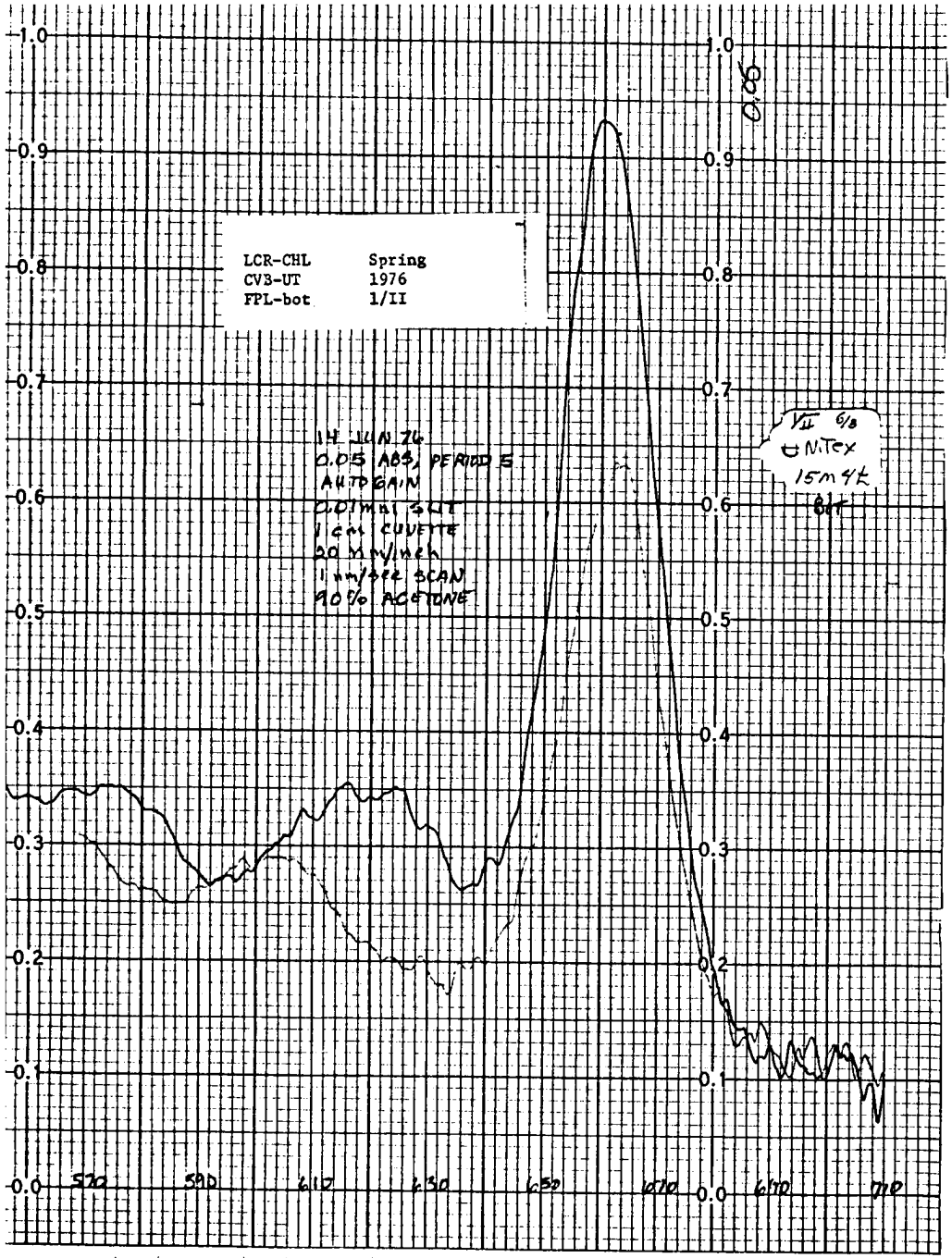
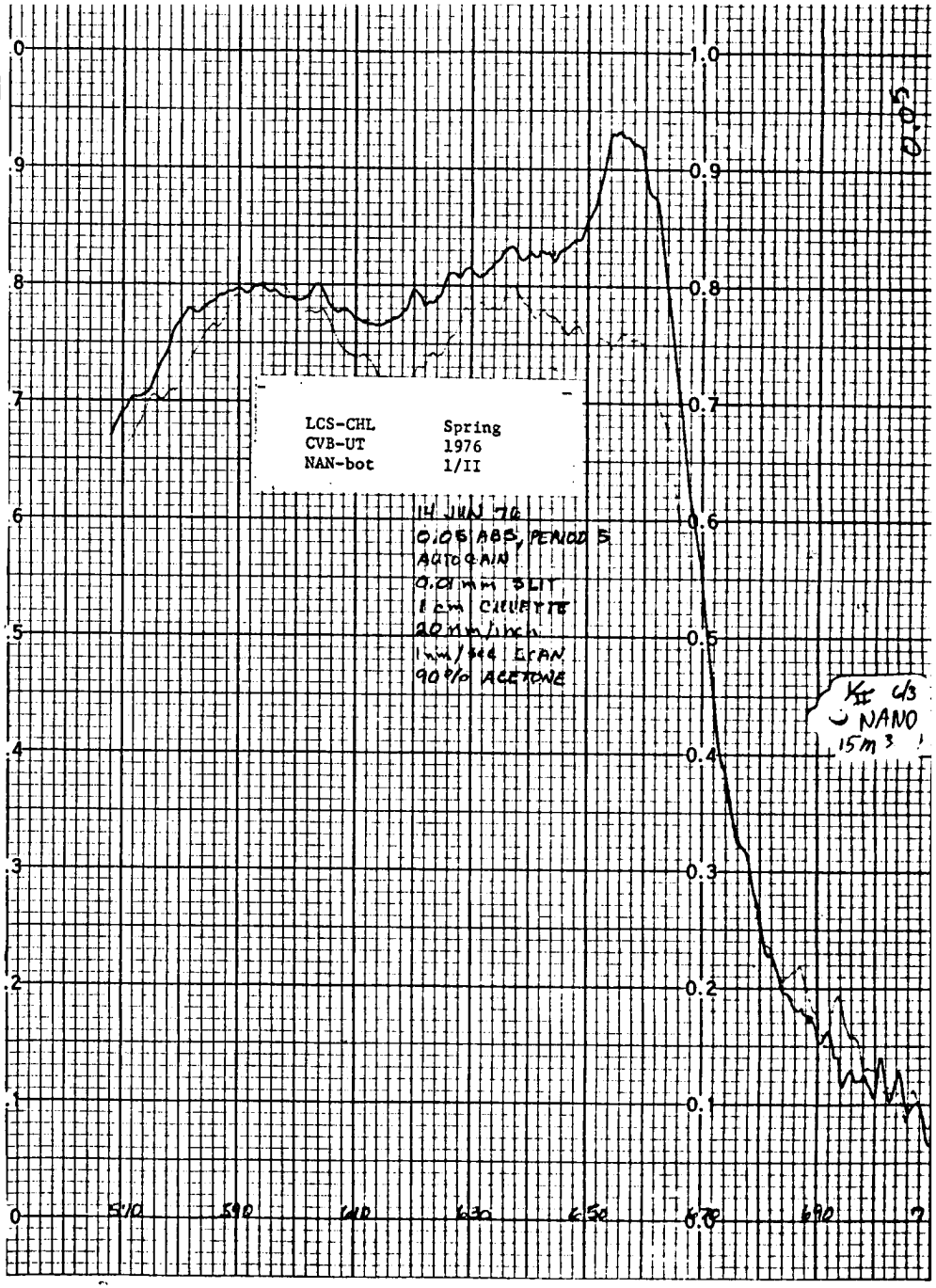
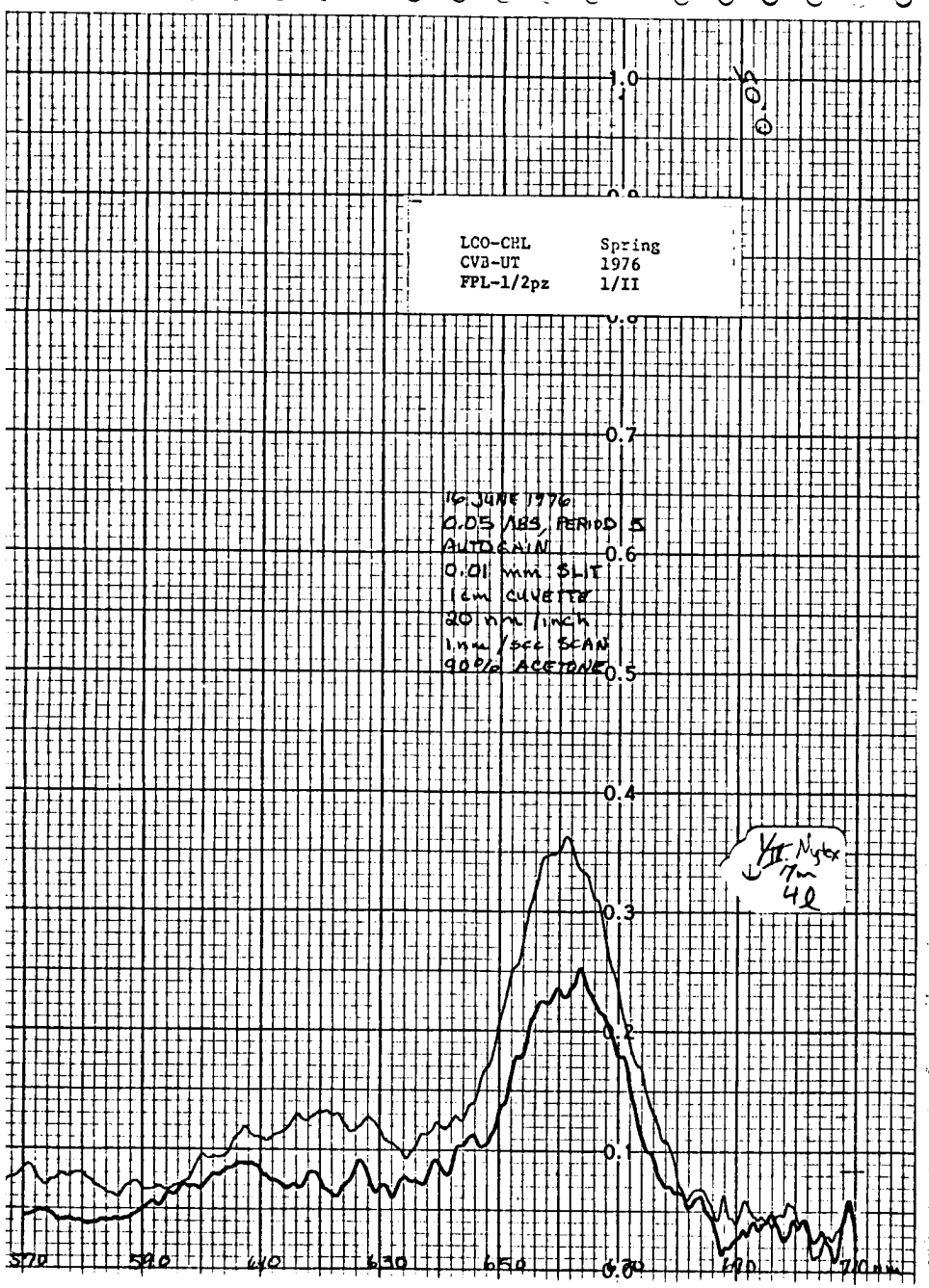


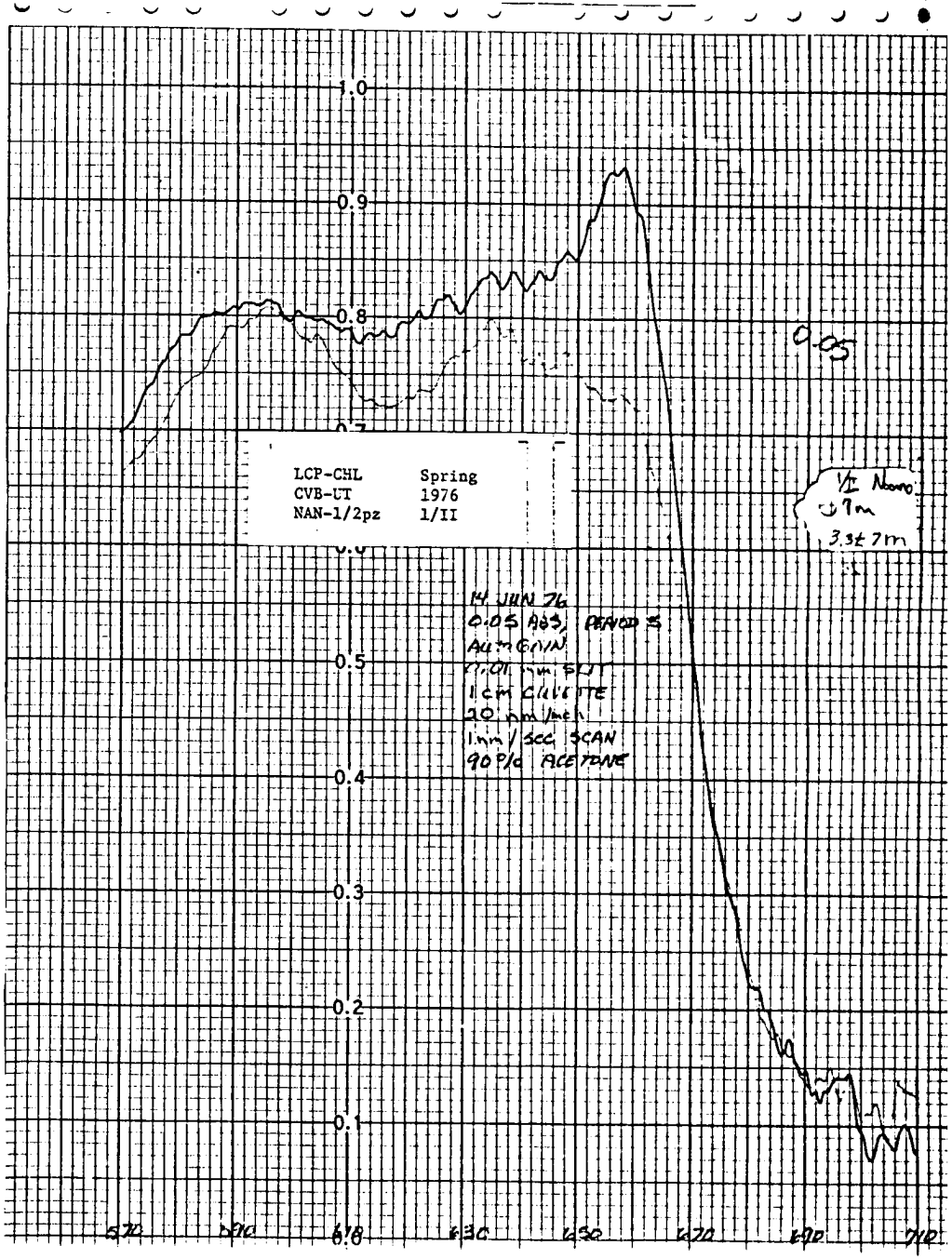
CHART NO. 12550
PRINTED IN U.S.A.
LED-CHL Spring
CVB-UT 1976
FPL-srf 2/II
28 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
2/II 1m Nitex 4l
Sa:0
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 nm

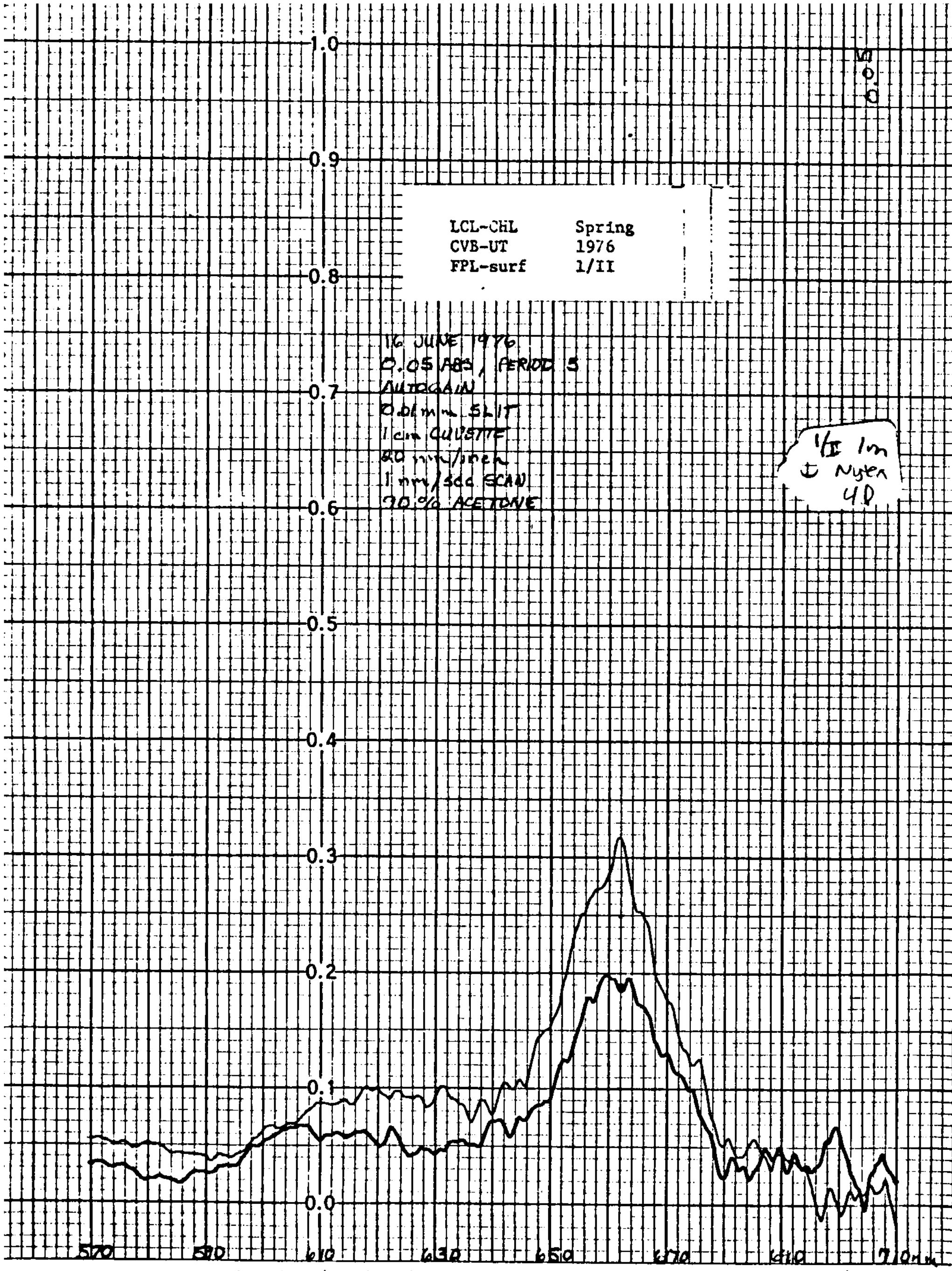

PRINTED IN U.S.A.
cary instruments
REPLICATE #1
LED-CHL Spring
CVB-UT 1976
FPL-srf 2/II
28 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
2/II 6/5 Jitter Rep 1m 4=
Sa:0
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 nm

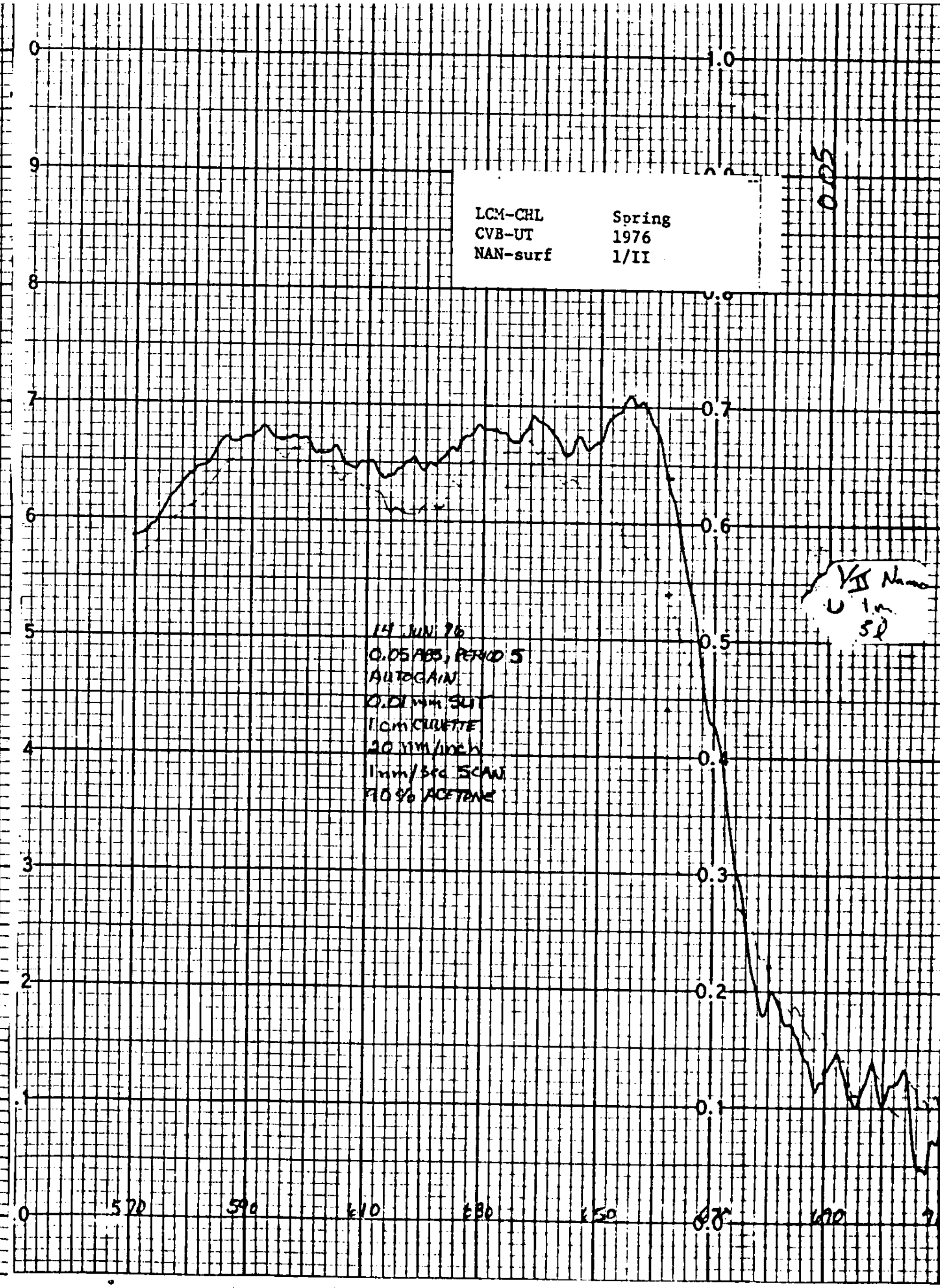

LCR-CHL Spring
CVB-UT 1976
FPL-bot 1/II
14 JUN 76
0.05 ABS, PERIOD 5
AUTOGAIN
0.01mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
VII 6/3
NiTex
15m 4k
0.05


LCS-CHL Spring
CVB-UT 1976
NAN-bot 1/II
14 JUN 76
0.05 ABS, PERIOD 5
AUTOGAIN
0.01mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
VII 6/3
NANO
15m
0.05


LCO-CHL Spring
CVB-UT 1976
FPL-1/2pz 1/II
16 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1/II Nyex
7m
4l
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
640
650
700
710 nm


LCP-CHL Spring
CVB-UT 1976
NAN-1/2pz 1/II
0.05
1/II Nyex
7m
3.5 7m
14 JUN 76
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.5
0.4
0.3
0.2
0.1
570
590
630
650
670
690
710


LCL-CHL Spring
CVB-UT 1976
FPL-surf 1/II
16 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 nm


LCM-CHL Spring
CVB-UT 1976
NAN-surf 1/II
14 JUN 76
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1.0
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690

T NO. 12550 PRINTED IN U.S.A.

LAU-CHL Spring
CVB-UT 1976
FPL-bot 3/I

25 JUN 76
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE

3/I 180-Nitex 1l

0.05

1.0 0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.2 0.1

570 590 610 630 650 670 690 710 nm

LAV-CHL Spring
CVB-UT 1976
NAN-bot 3/I

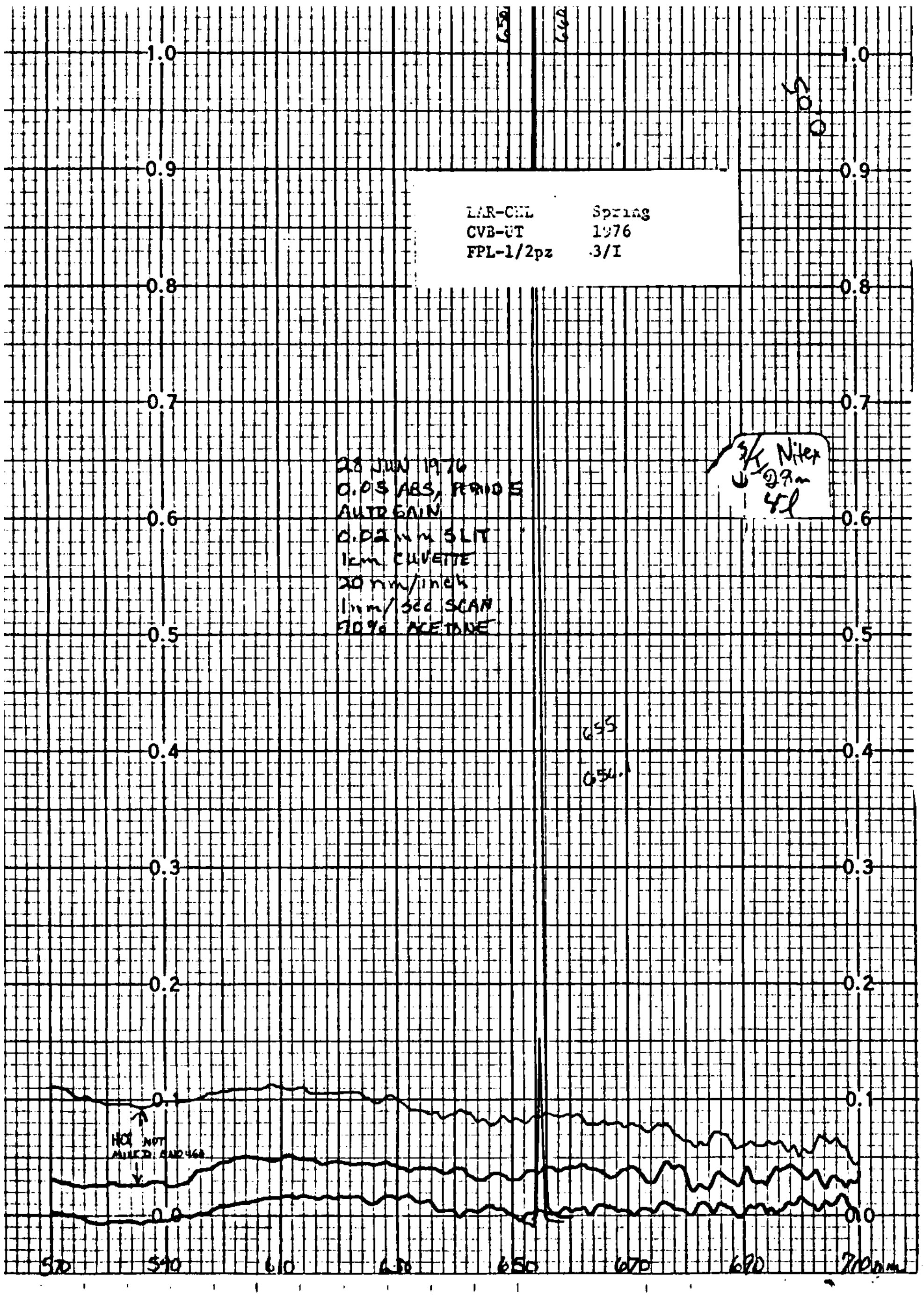
16 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE

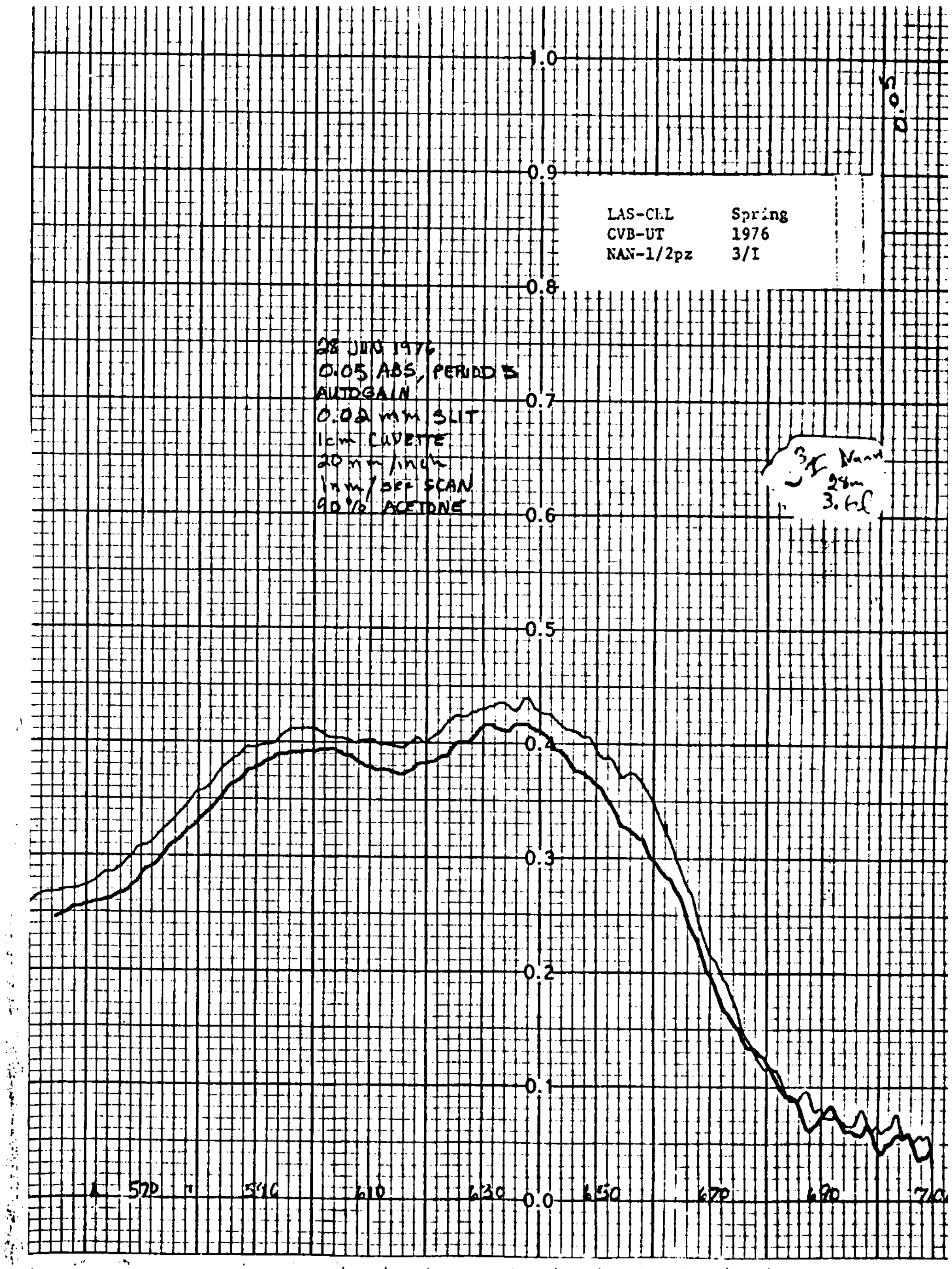
3/I Nanno 130 m 3.9l

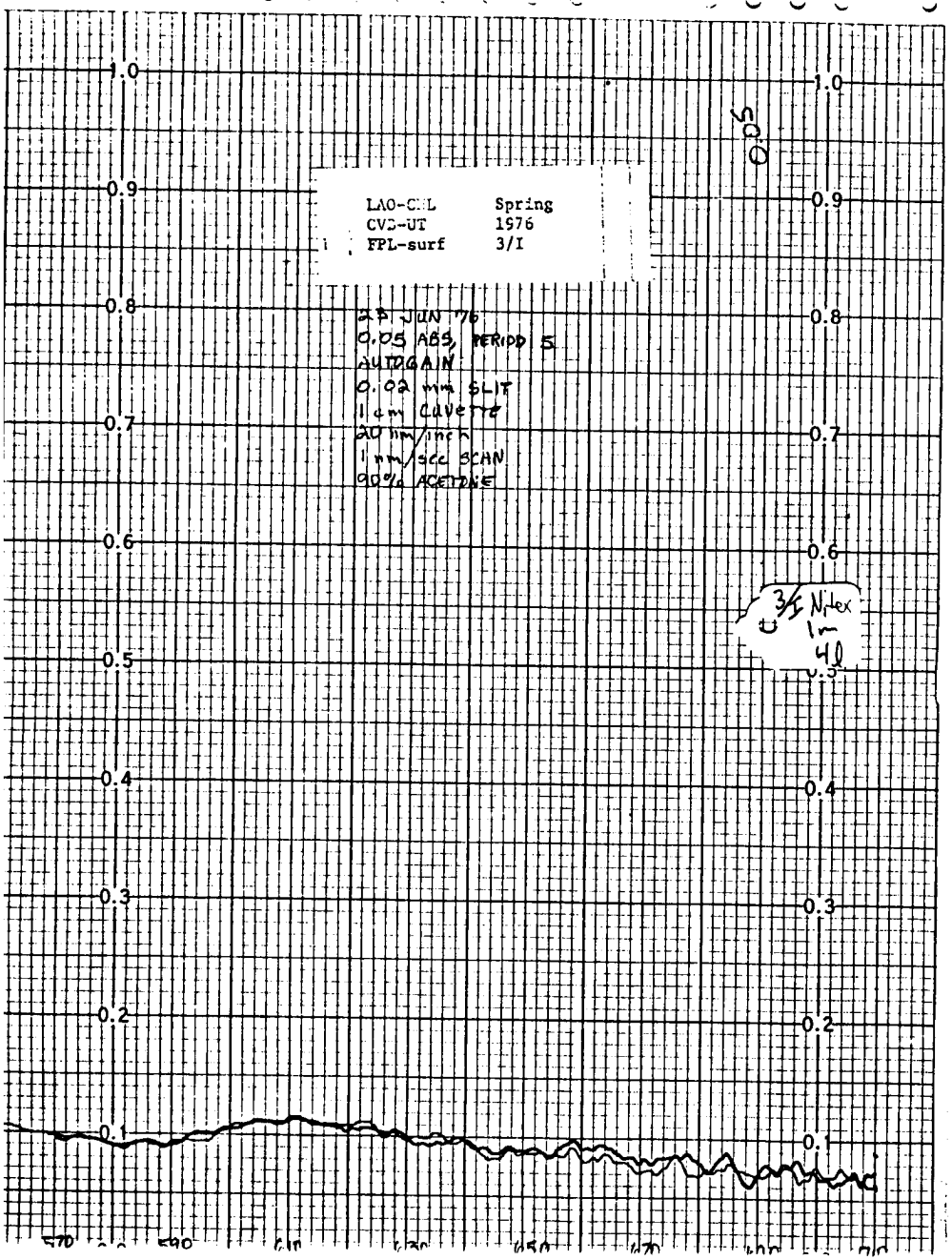
0.05

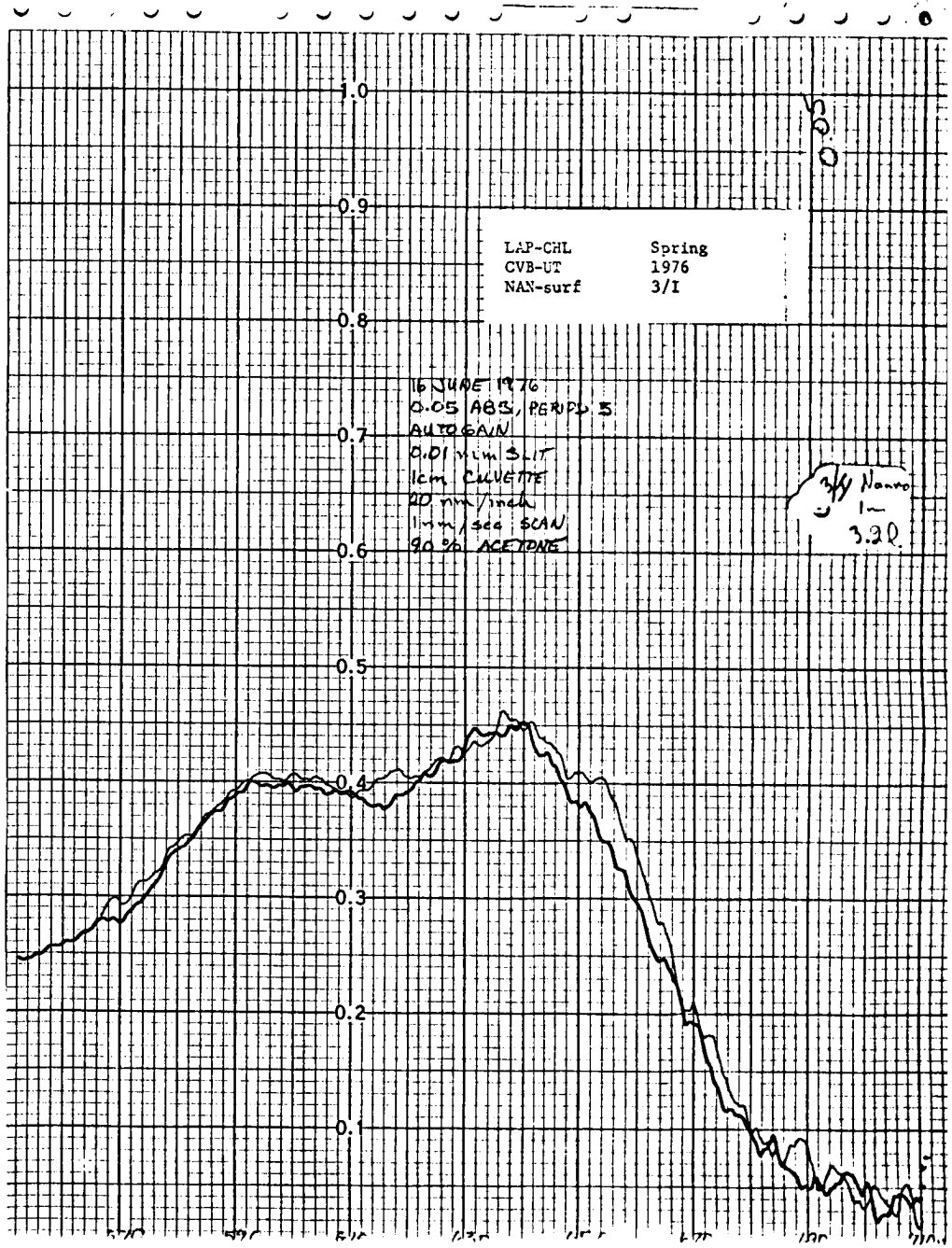
1.0 0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.2 0.1

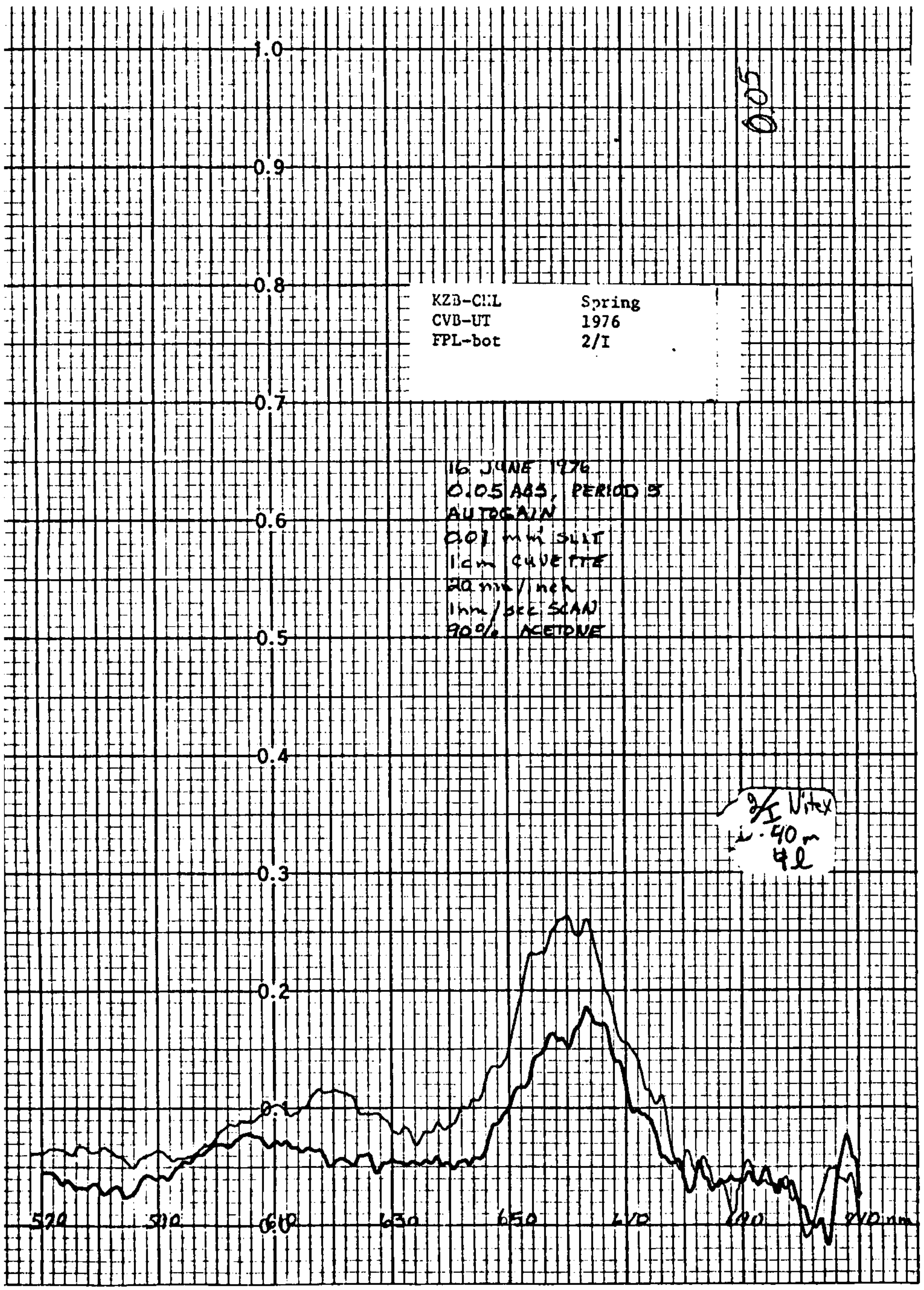
510 590 610 630 650 670 690 710 nm


LAR-CHL Spring
CVB-UT 1976
FPL-1/2pz 3/I
28 JUN 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1mm/sec SCAN
90% ACETONE
3/I Nitex
29m
4l
655
654.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 nm


LAS-CHL Spring
CVB-UT 1976
NAN-1/2pz 3/I
28 JUN 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1mm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
610
630
650
670
690






KZB-CHL Spring
CVB-UT 1976
FPL-bot 2/I
16 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
610
630
650
670
690
710 nm

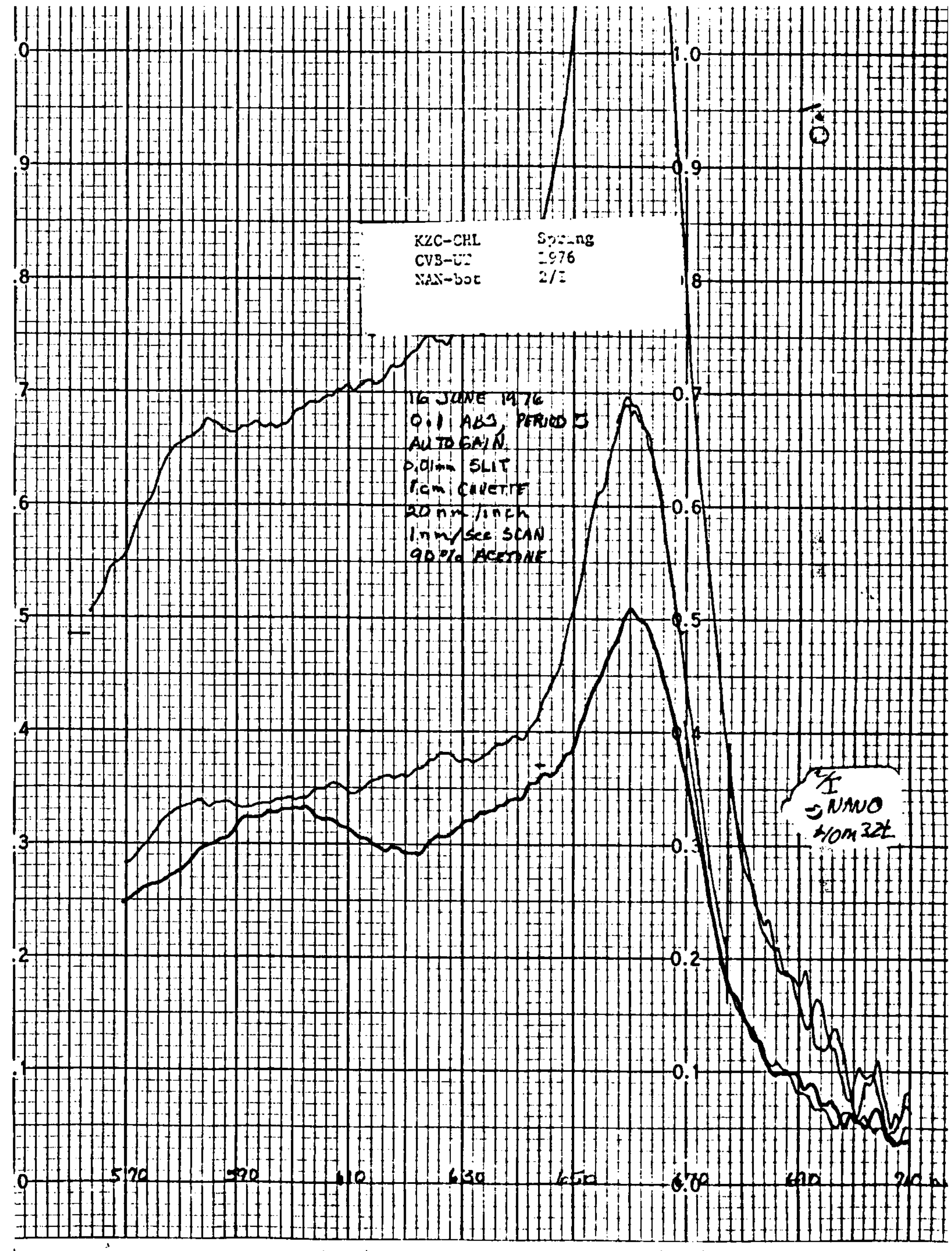

KZC-CHL Spring
CVB-UT 1976
NAN-bot 2/I
16 JUNE 1976
0.1 ABS, PERIOD 5
AUTOGAIN
0.01mm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690

CHART NO. 12550

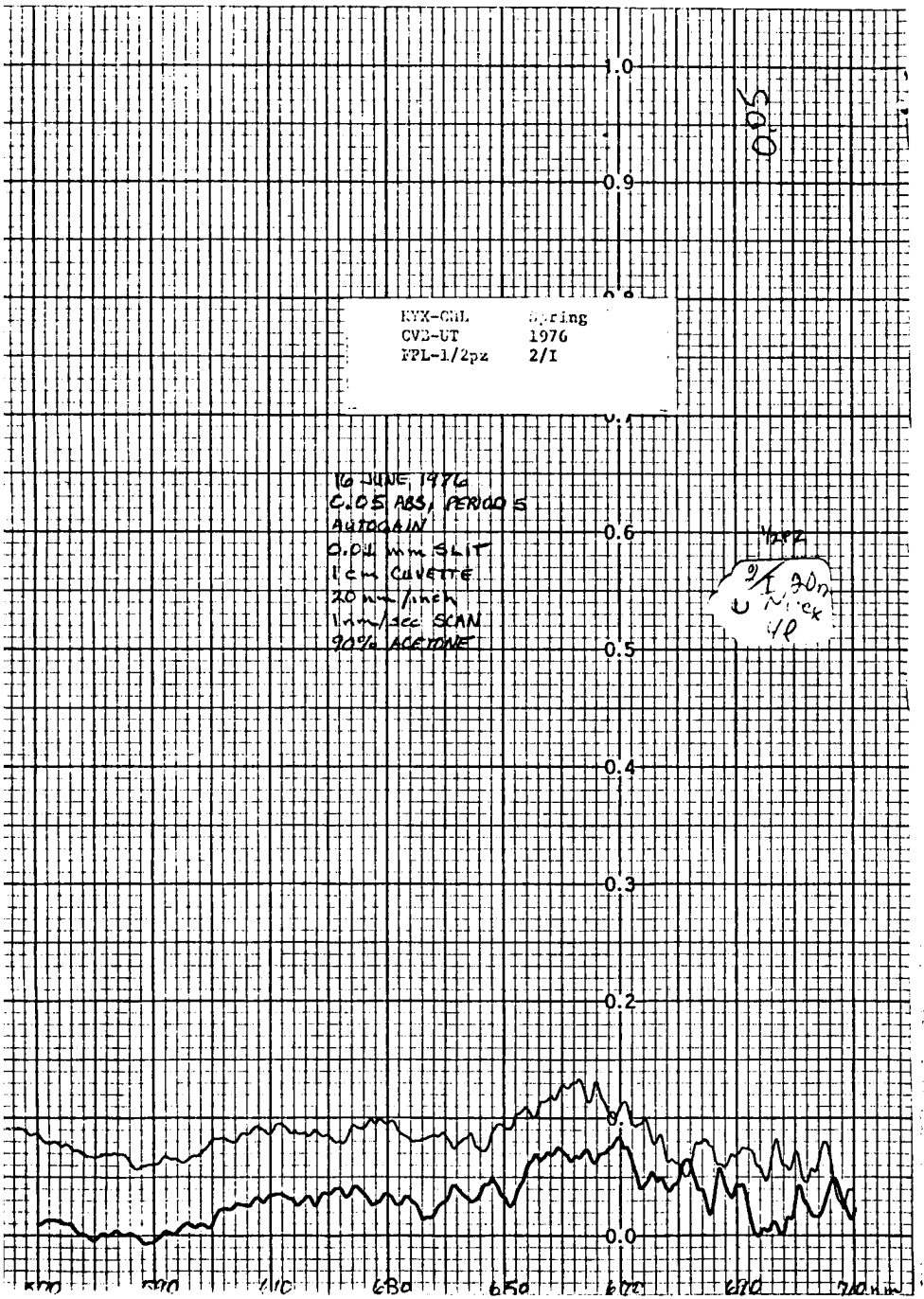
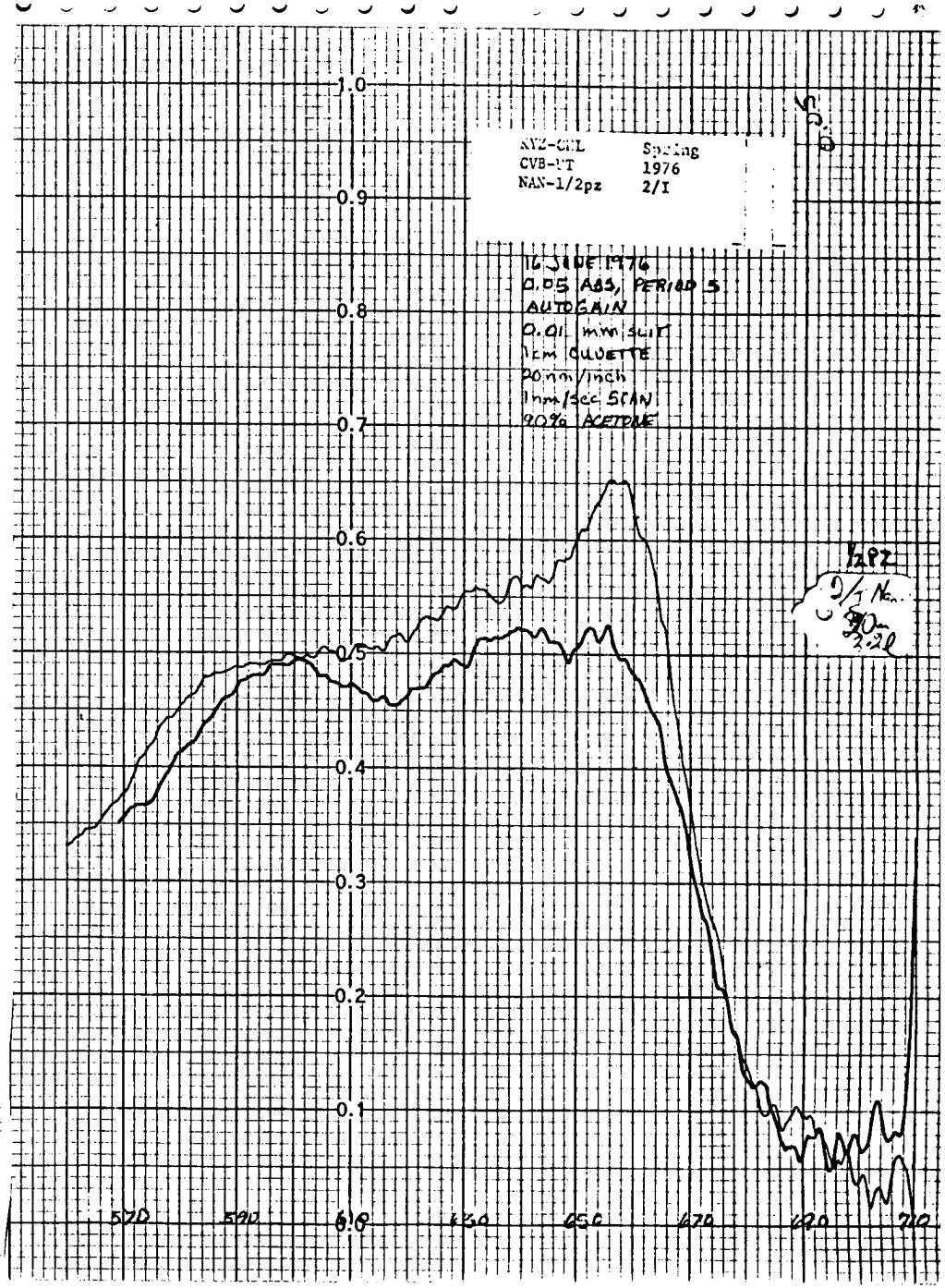
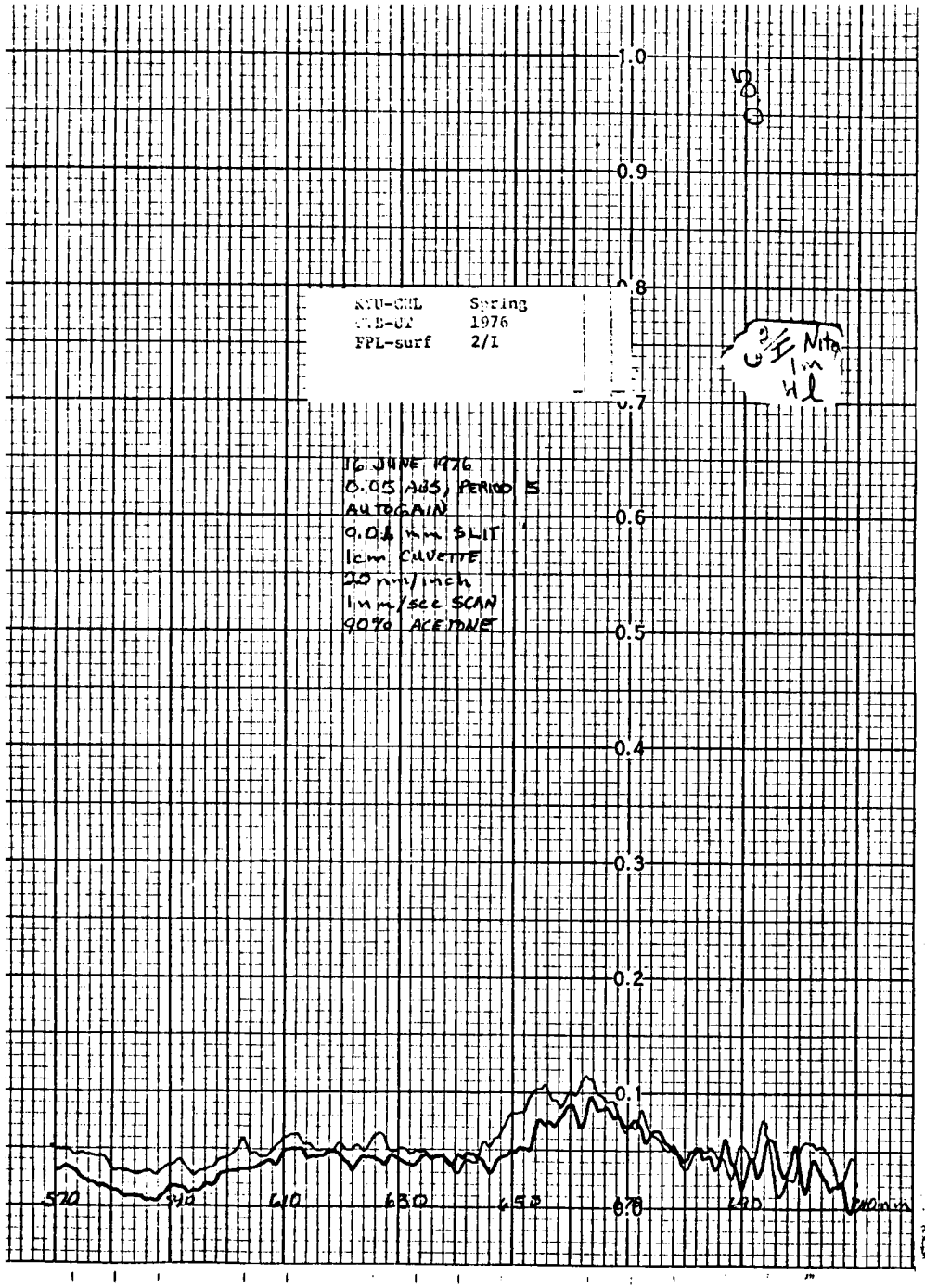
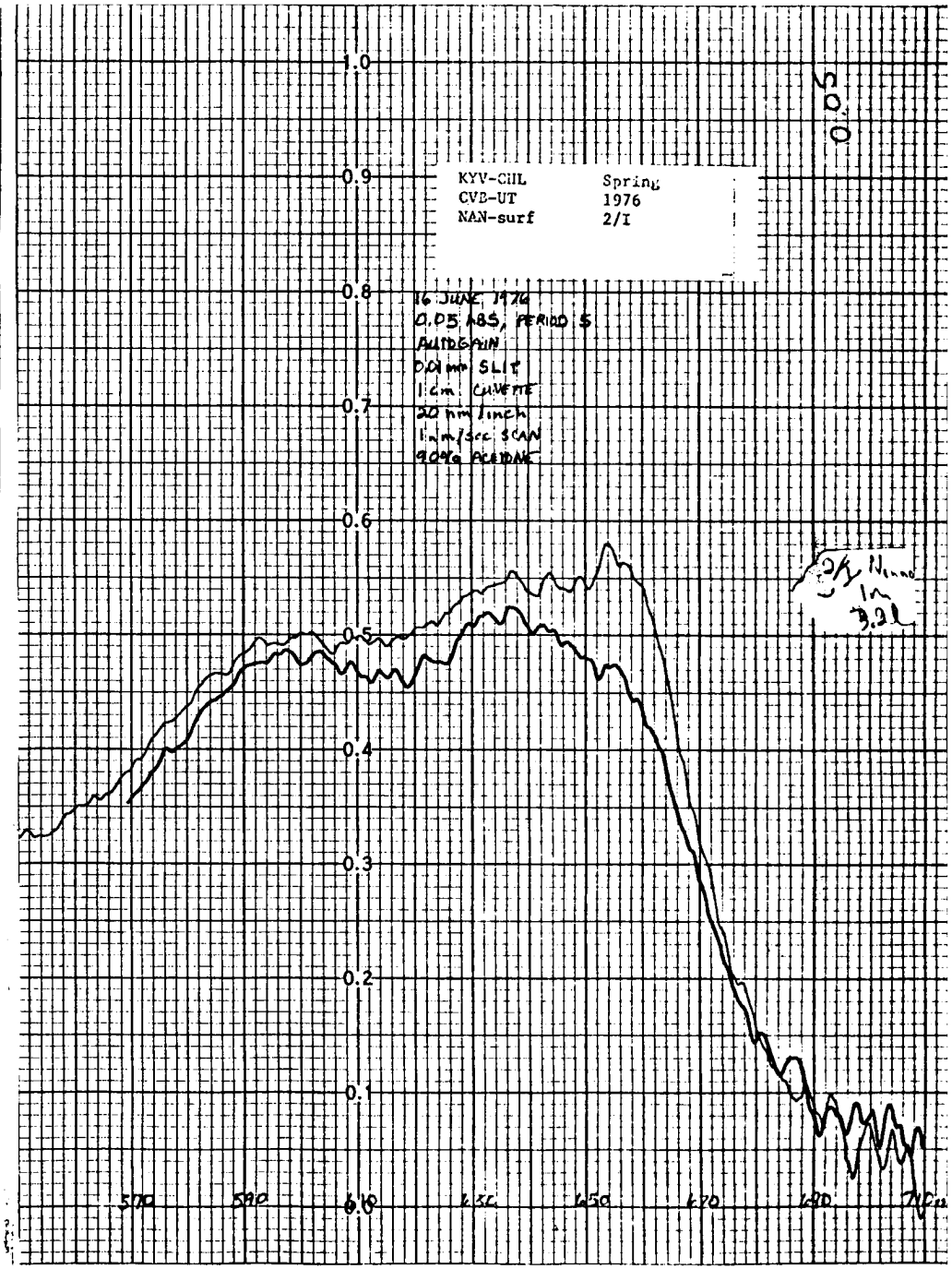


CHART NO. 12550




500
KYV-CHL Spring
CVB-UT 1976
FPL-surf 2/I
16 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.04 mm SLIT
1cm CUVETTE
20 nm/inch
1 in/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
520
540
610
630
650
670
690
710nm


500
KYV-CHL Spring
CVB-UT 1976
NAN-surf 2/I
16 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.04 mm SLIT
1 cm CUVETTE
20 nm/inch
1 in/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710nm

HART NO. 12550

KWY-chl Spring
CVB-UT 1976
FPL-bot 1/I

16 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1cm CUVETTE
20 mm/inch
1 mm/sec SCAN
90% ACETONE

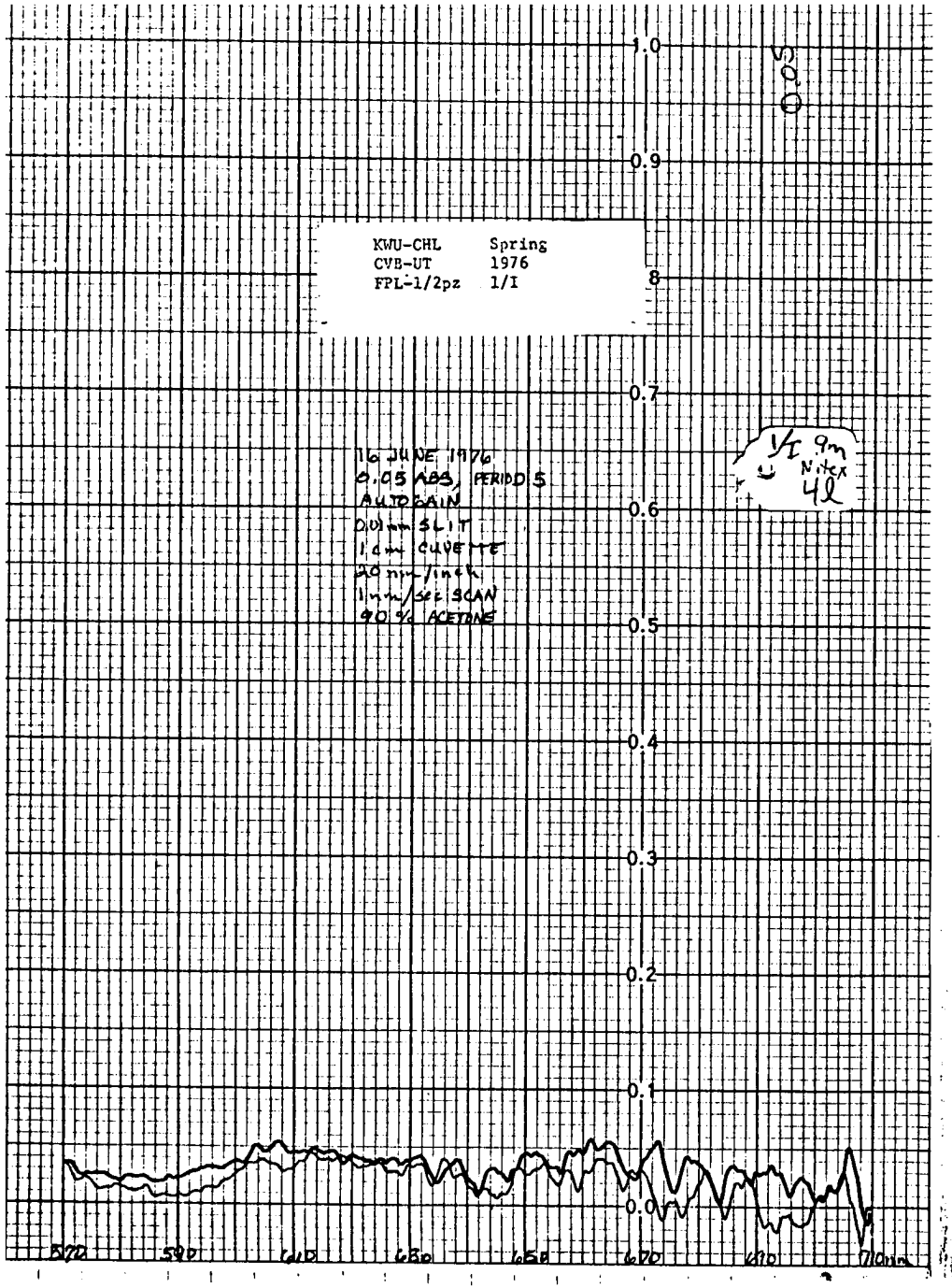
VI
Vitex
18m 42s

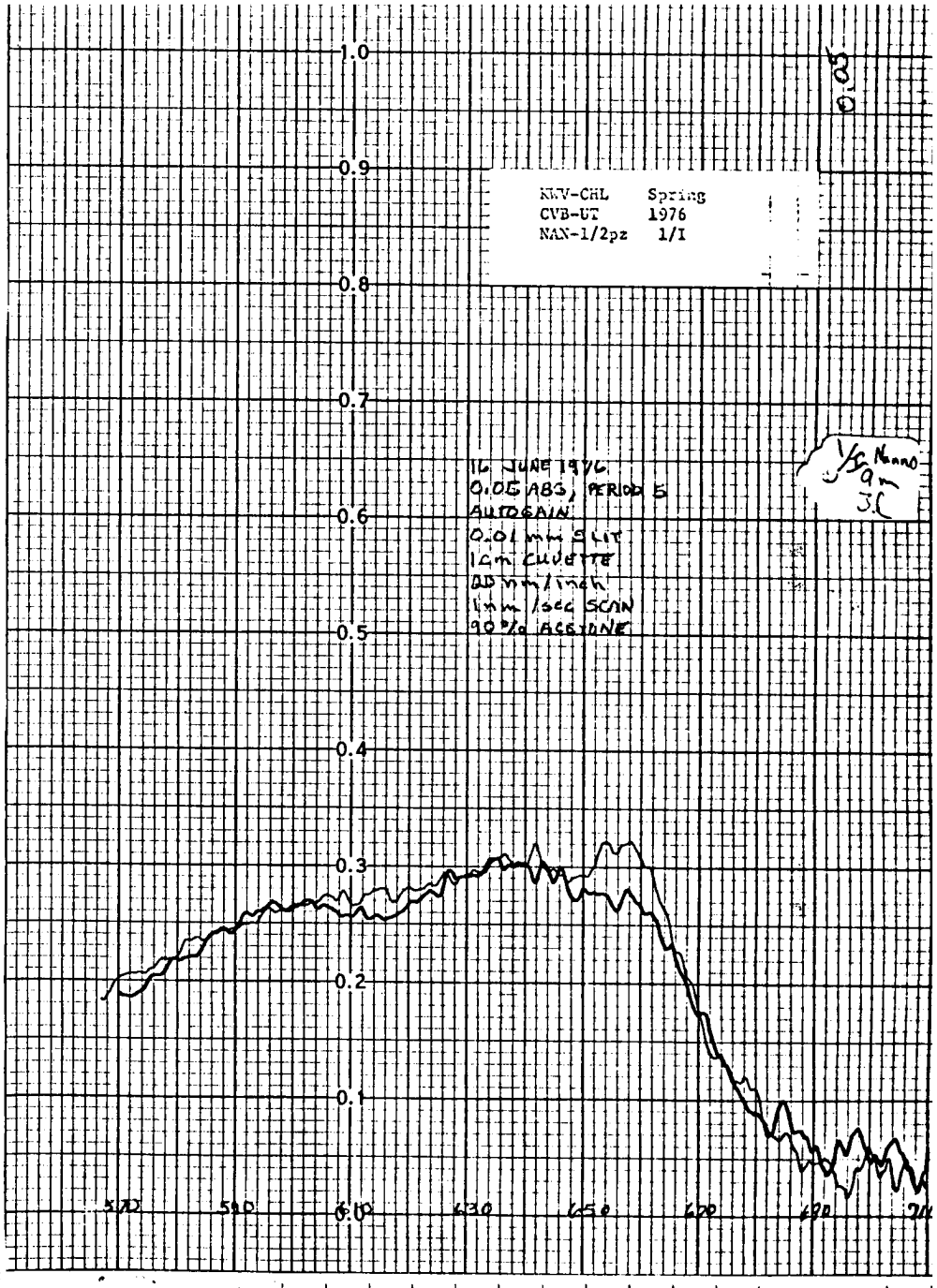
instruments/a varian subsidiary CHART NO. 12550

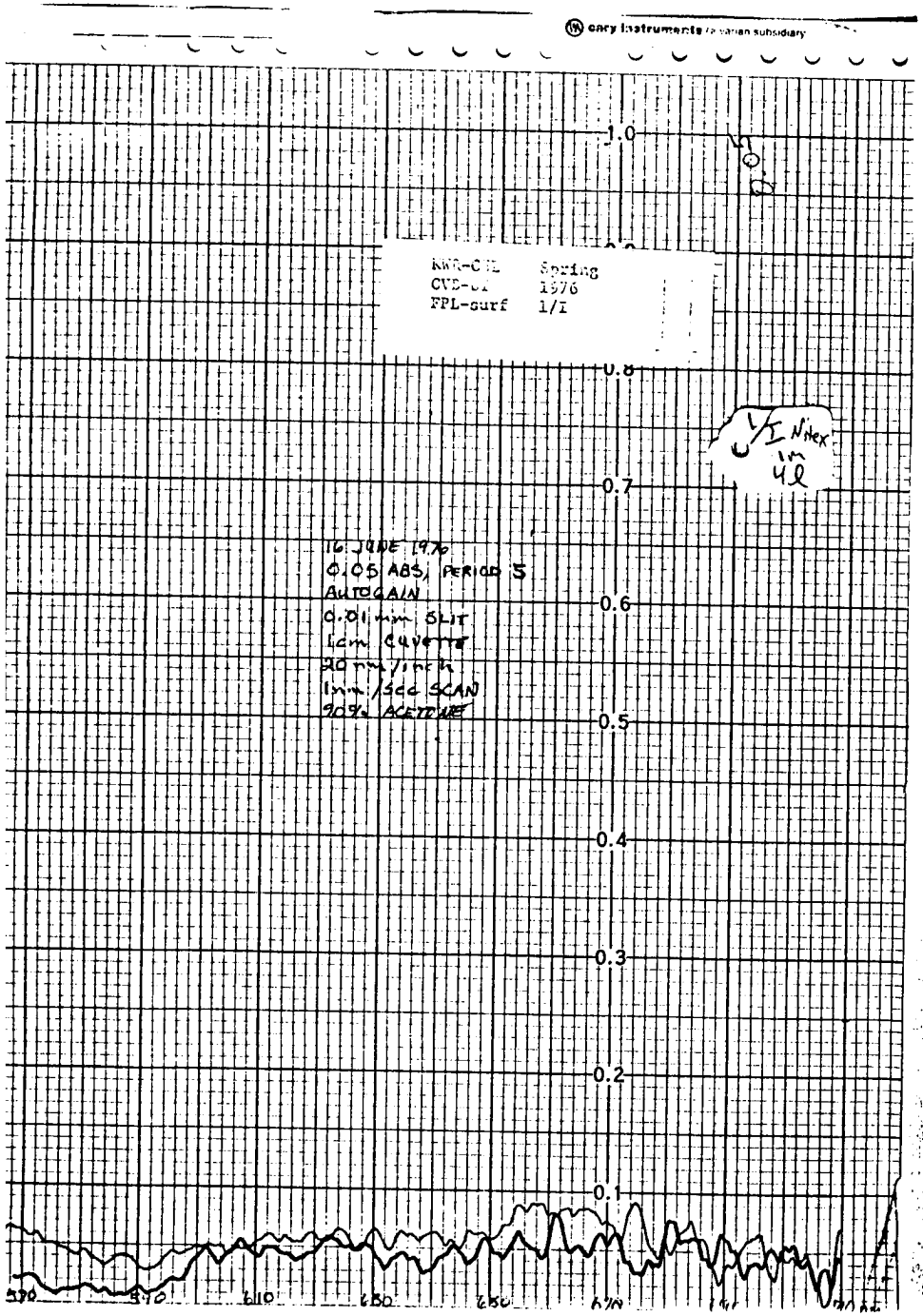
KWZ-CHL Spring
CVB-UT 1976
N/N-bot 1/I

16 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1cm CUVETTE
20 mm/inch
1 mm/sec SCAN
90% ACETONE

VI
NO
18m 32s


KWU-CHL Spring
CVB-UT 1976
FPL-1/2pz 1/I
16 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1/I 9m Nitex 4L
0.05
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710nm


KWV-CHL Spring
CVB-UT 1976
NAN-1/2pz 1/I
16 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1/I 9m Nano 3L
0.05
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690


cary instruments a varian subsidiary
KWS-CHL Spring
CVD-CT 1976
FPL-surf 1/I
1/I Nitex in 4l
16 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE

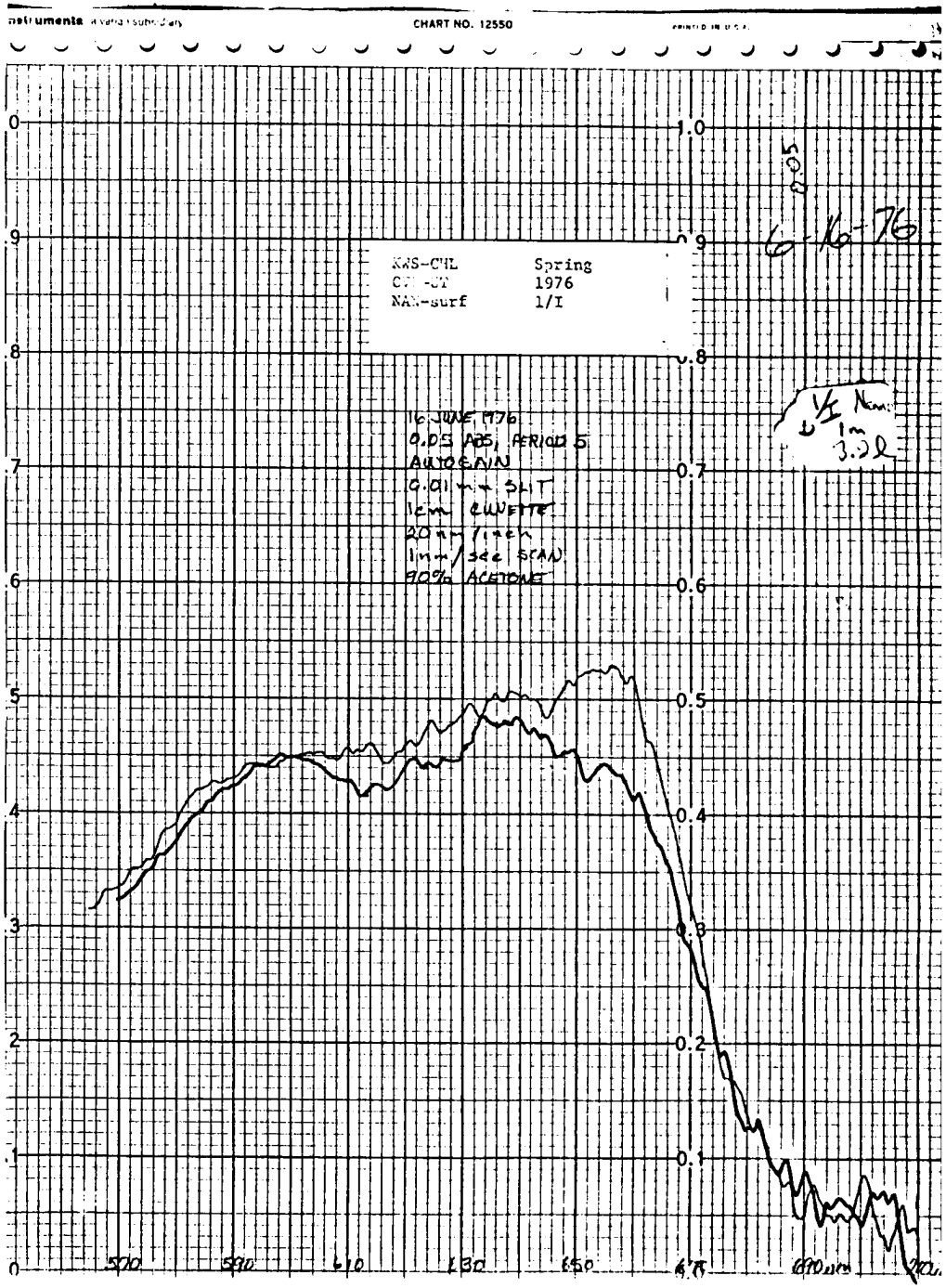
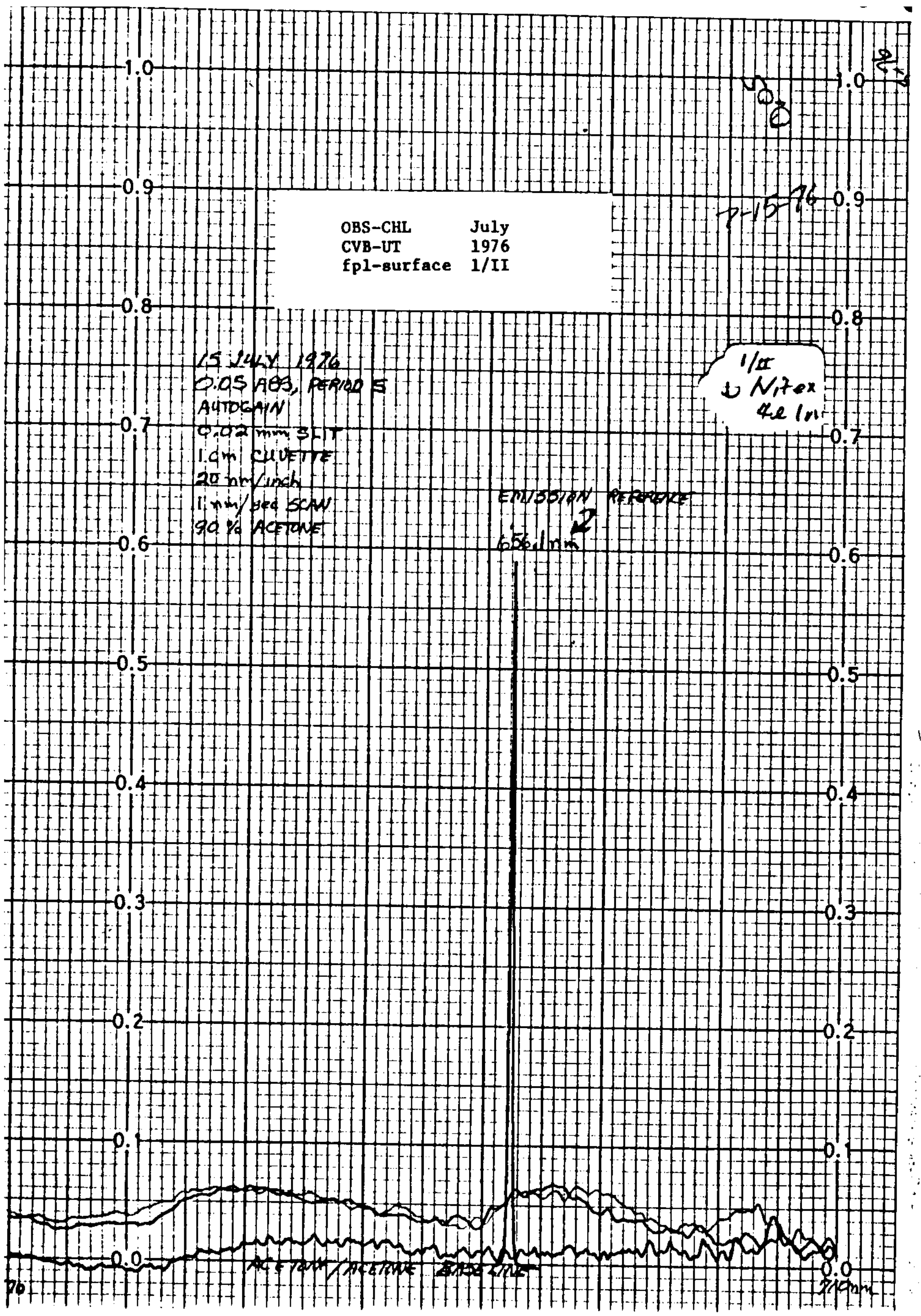
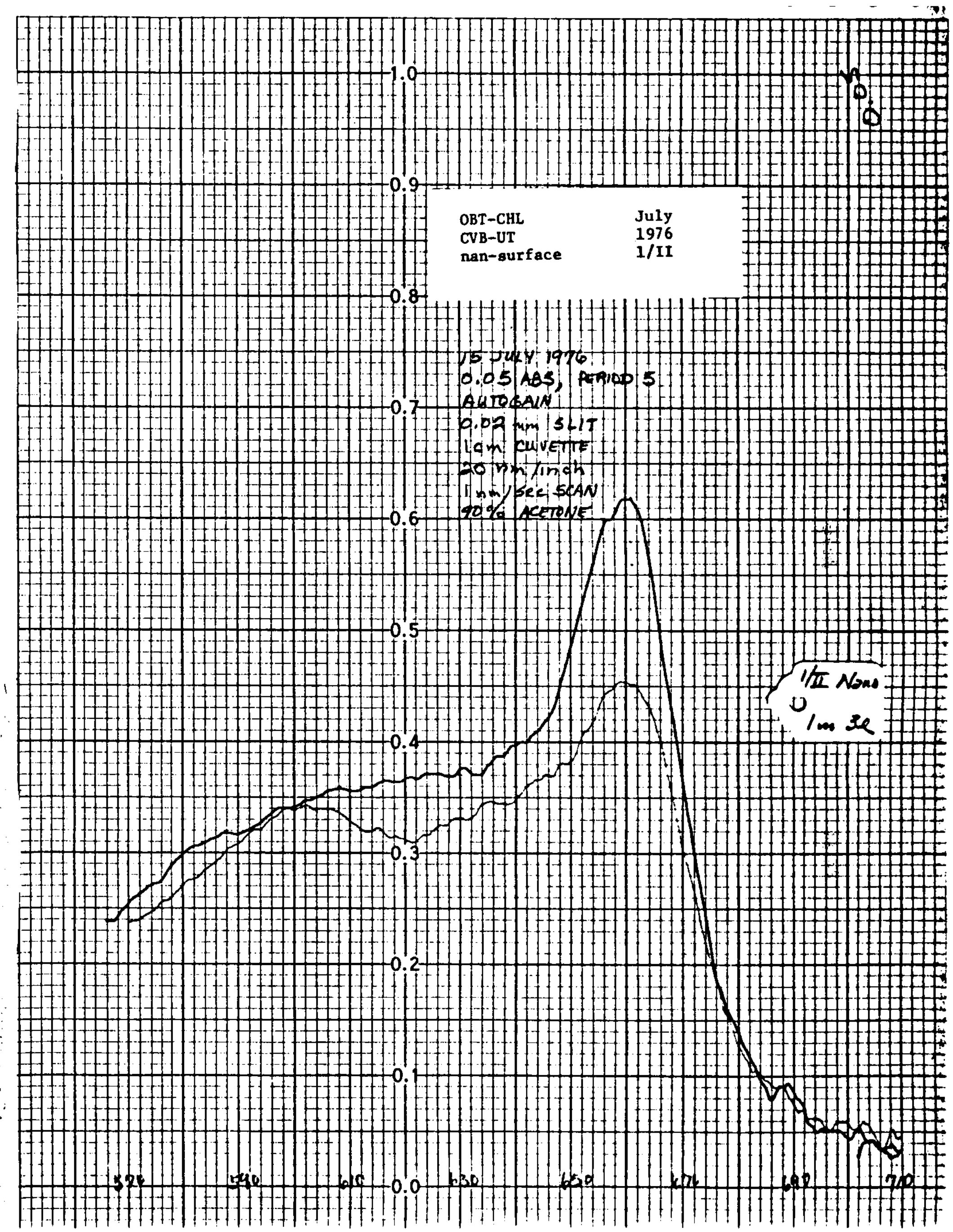
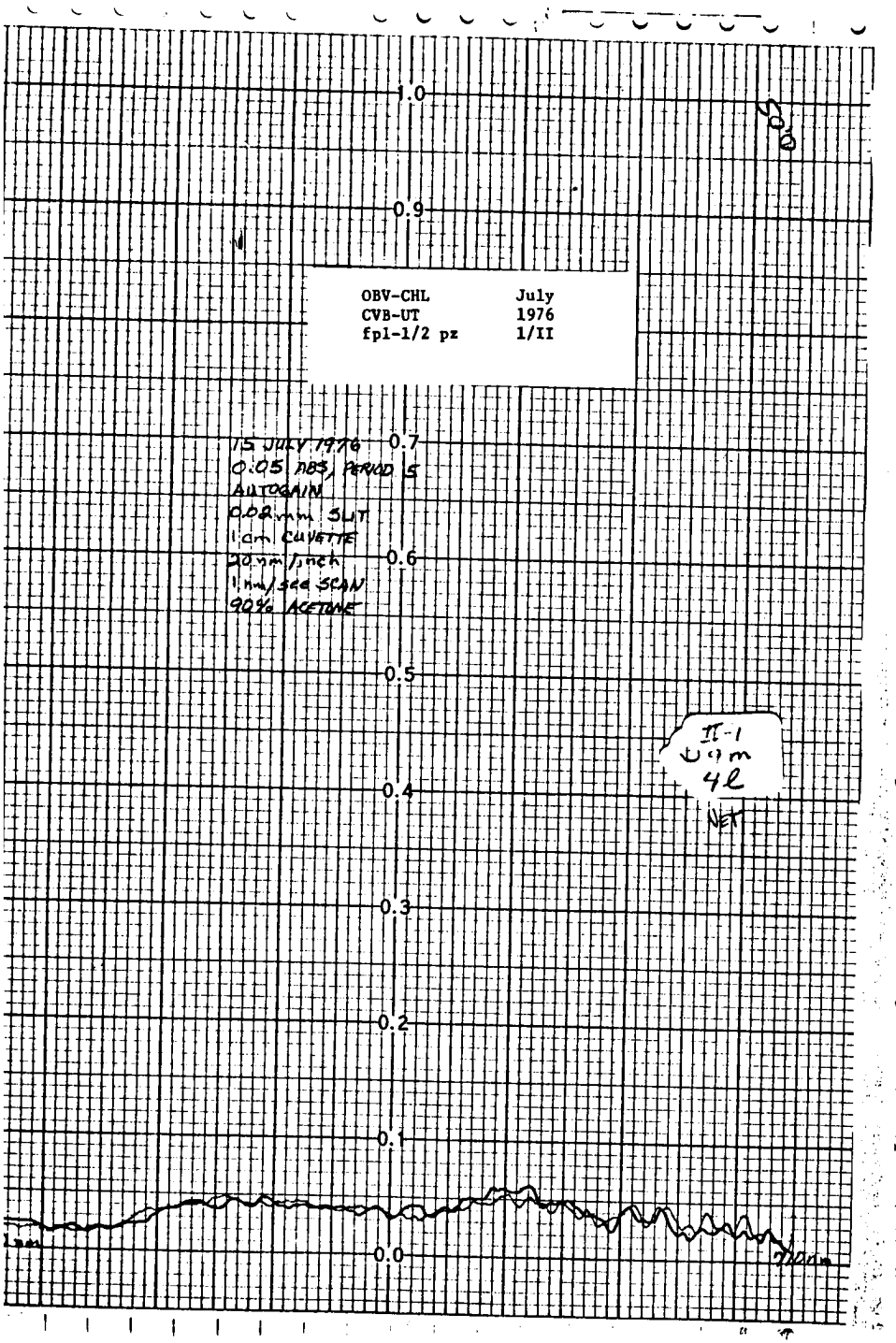
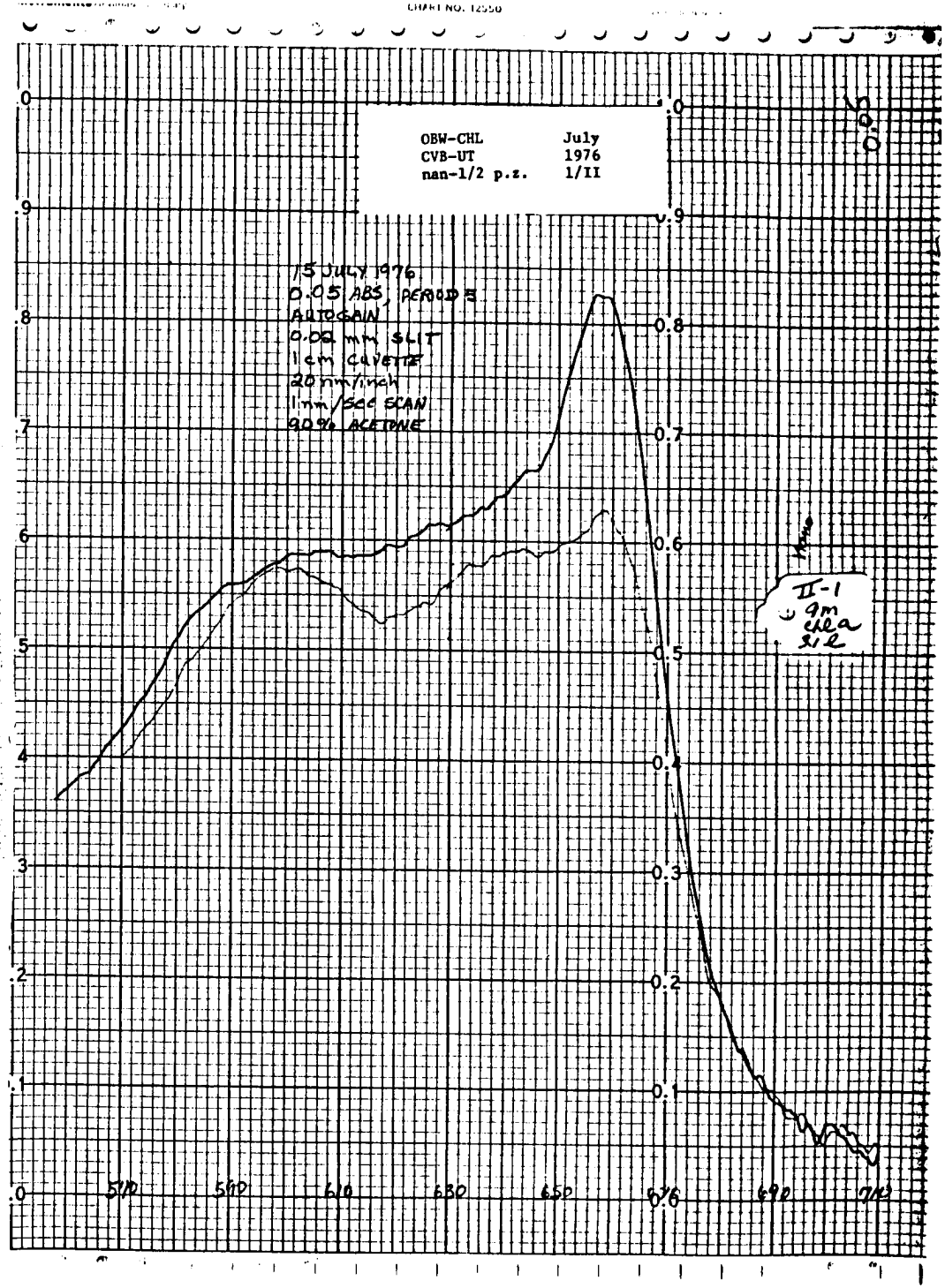


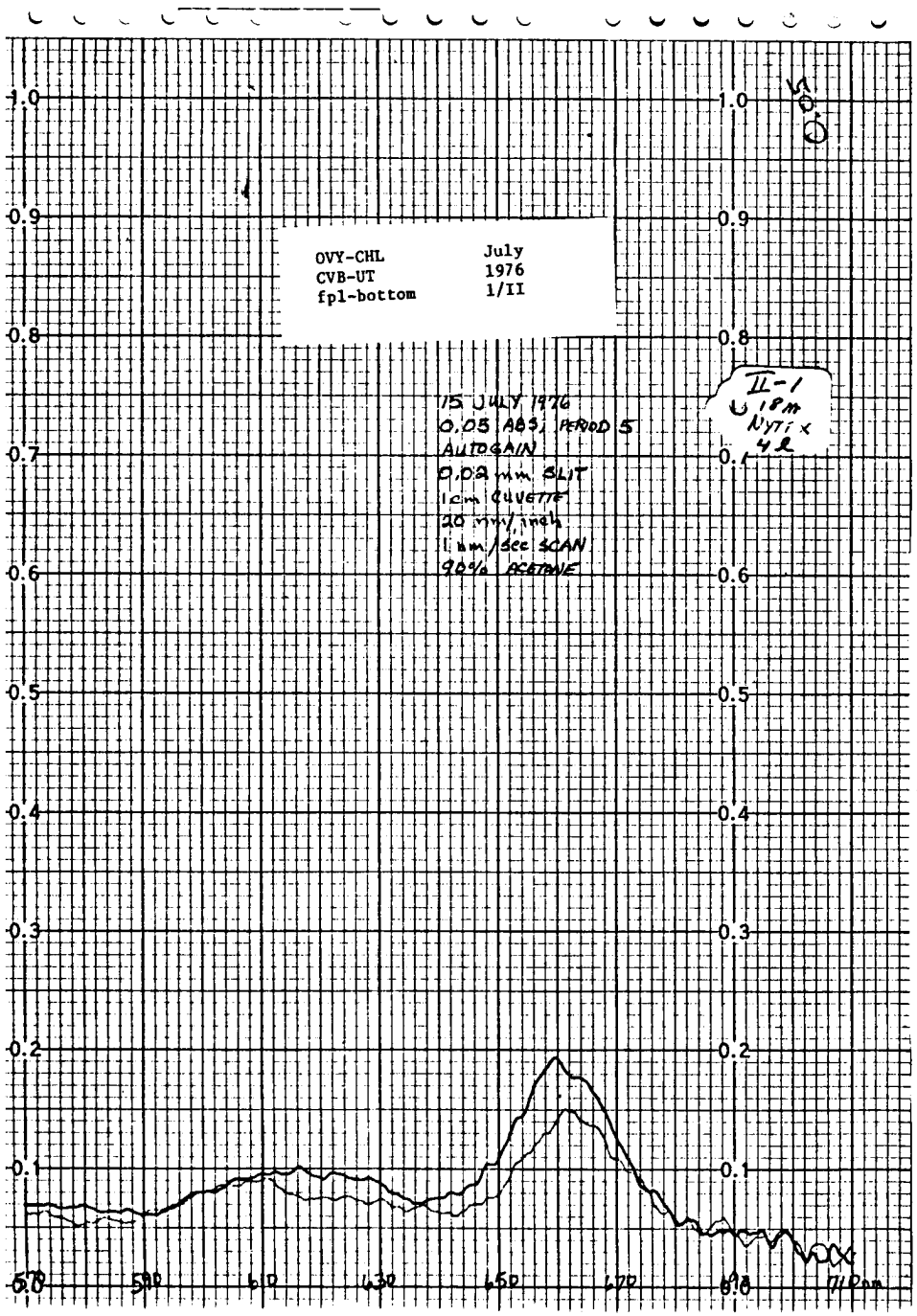
CHART NO. 12550
KWS-CHL Spring
CVD-CT 1976
NAN-surf 1/I
1/I Nitex in 3.5l
16 JUNE 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE

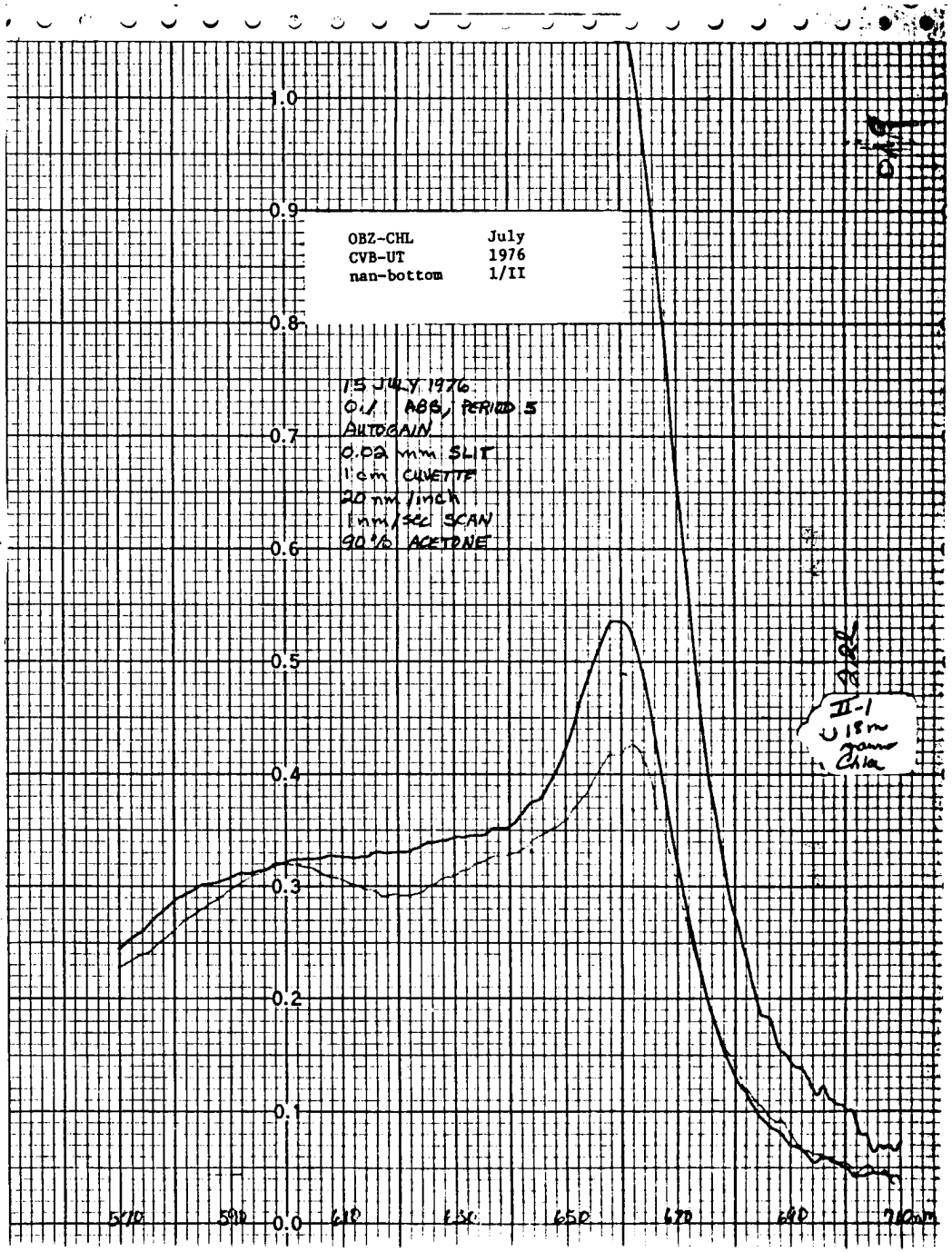

OBS-CHL July
CVB-UT 1976
fpl-surface 1/II
7-15-76
15 JULY 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
EMISSION REFERENCE
656.1 nm
ACETONE/ACETONE BASELINE
710 nm
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0

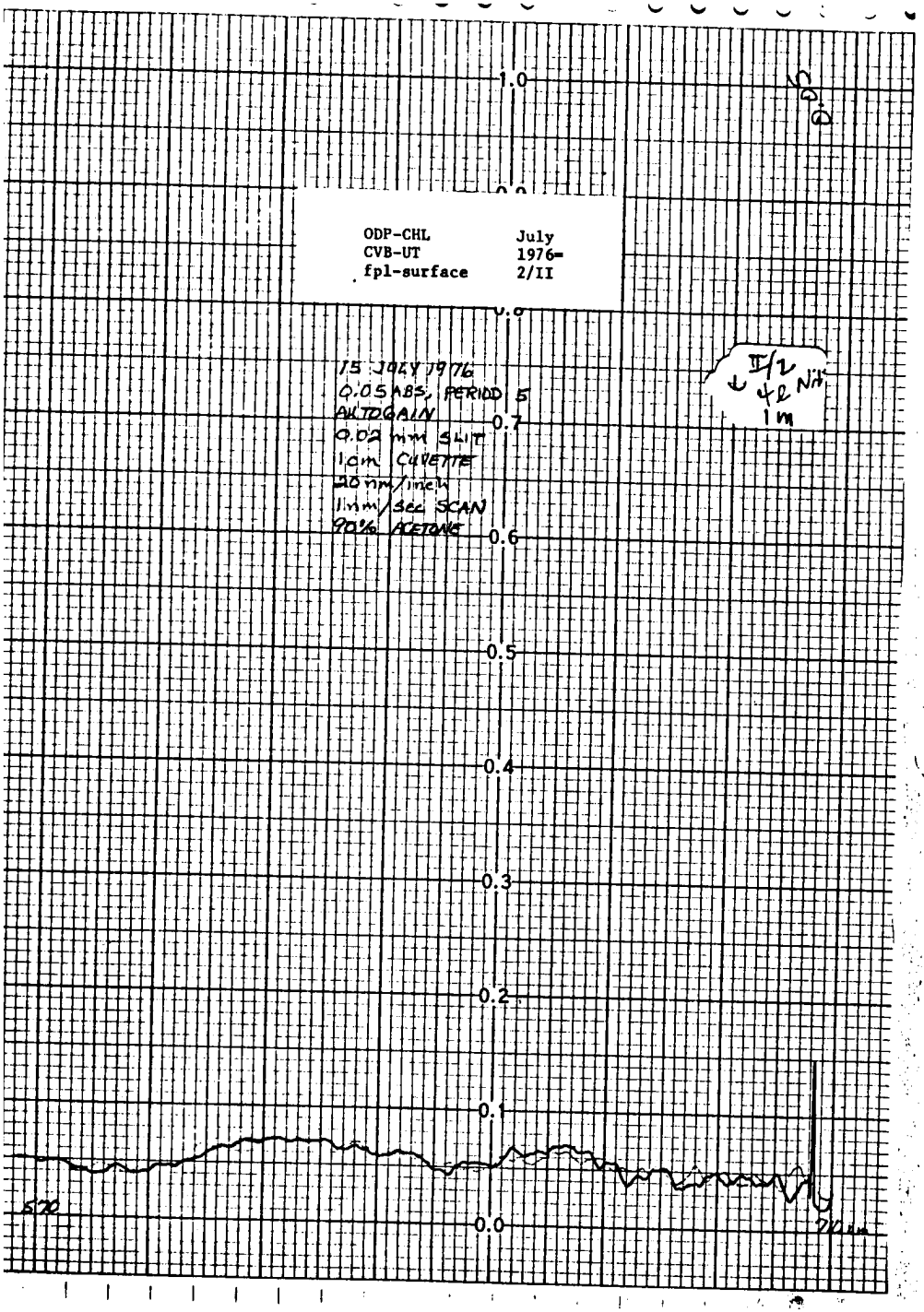

OBT-CHL July
CVB-UT 1976
nan-surface 1/II
15 JULY 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
610
630
650
670
710

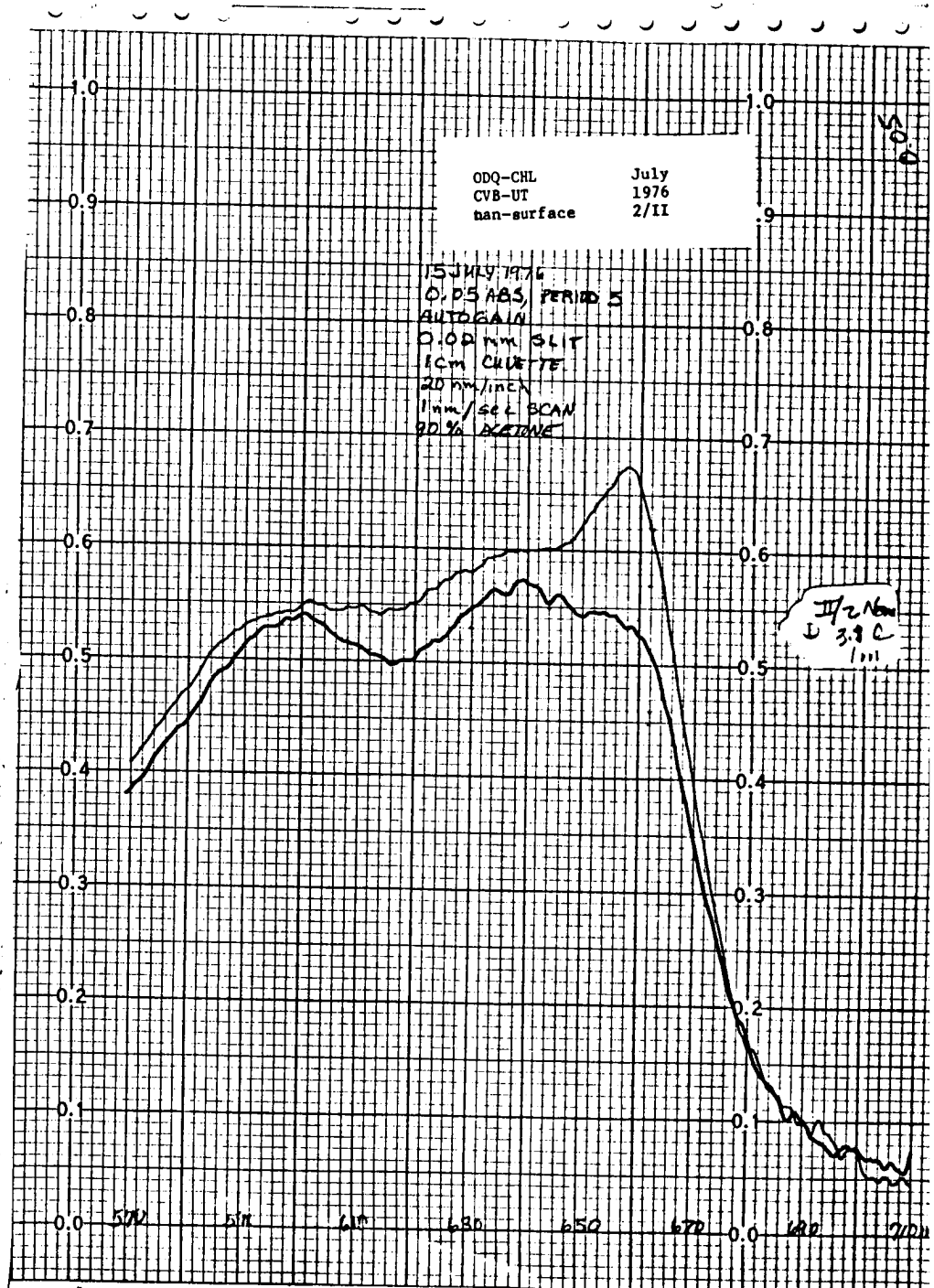

OBV-CHL July
CVB-UT 1976
fp1-1/2 pz 1/II
15 JULY 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.08 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
II-1
9m
4l
NET
1.0
0.9
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
1mm
700nm

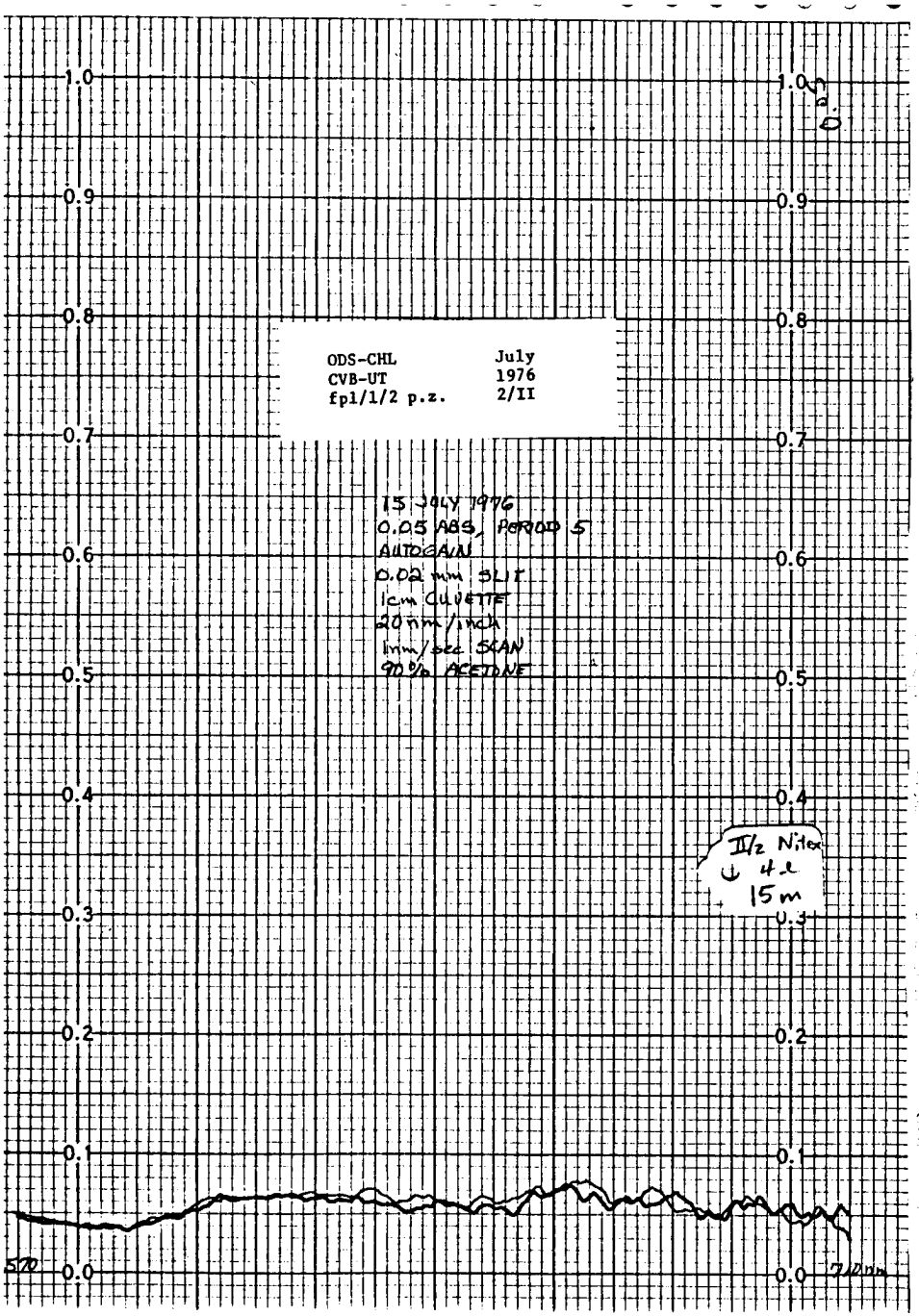

OBW-CHL July
CVB-UT 1976
nan-1/2 p.z. 1/II
15 JULY 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.08 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
II-1
9m
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
510
590
610
630
650
676
690
710

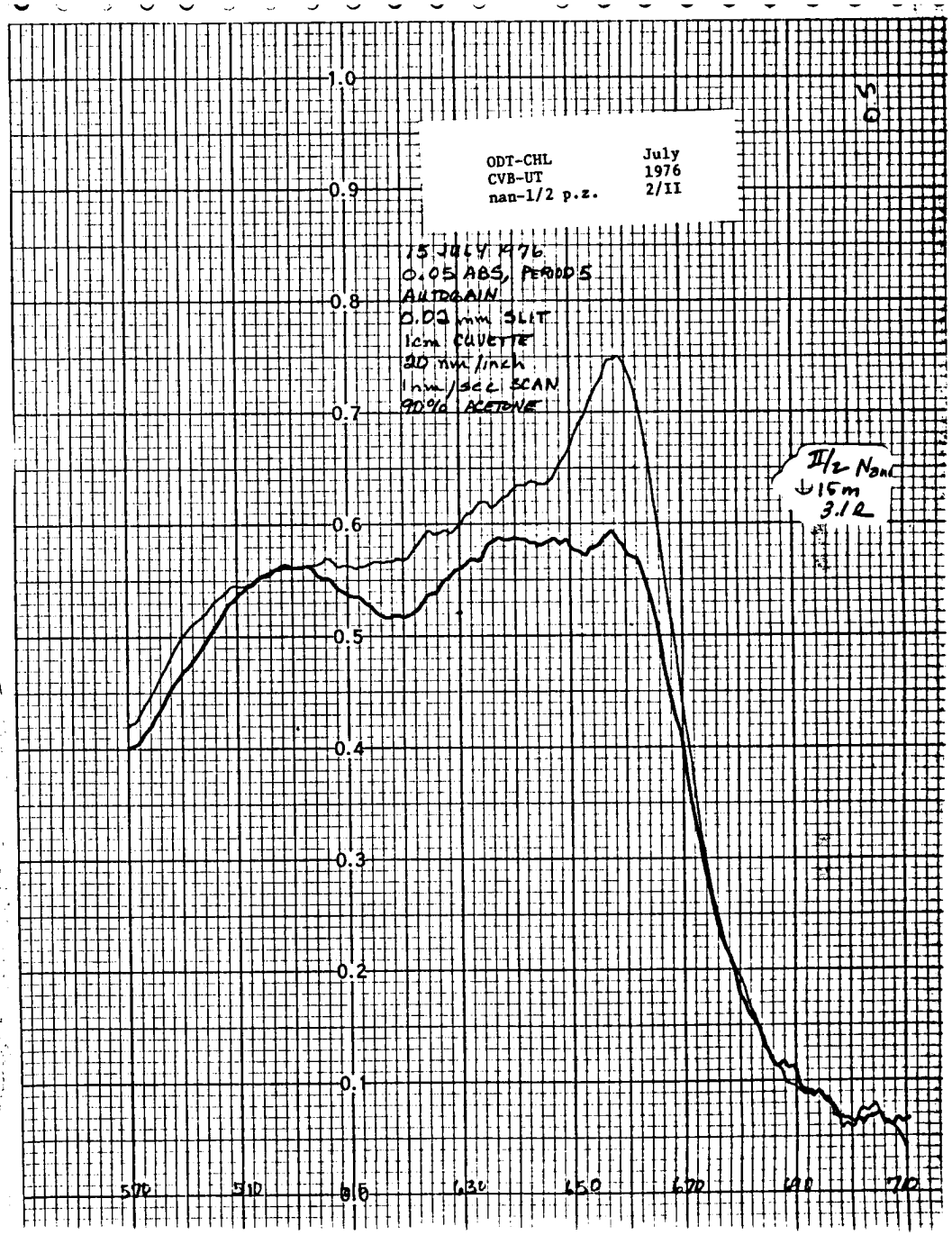

OVY-CHL July
CVB-UT 1976
fpl-bottom 1/II
15 JULY 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 mm/inch
1 nm/sec SCAN
90% ACETONE
II-1
18m
Nyti x
4L
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
510
590
610
630
650
670
690
710nm

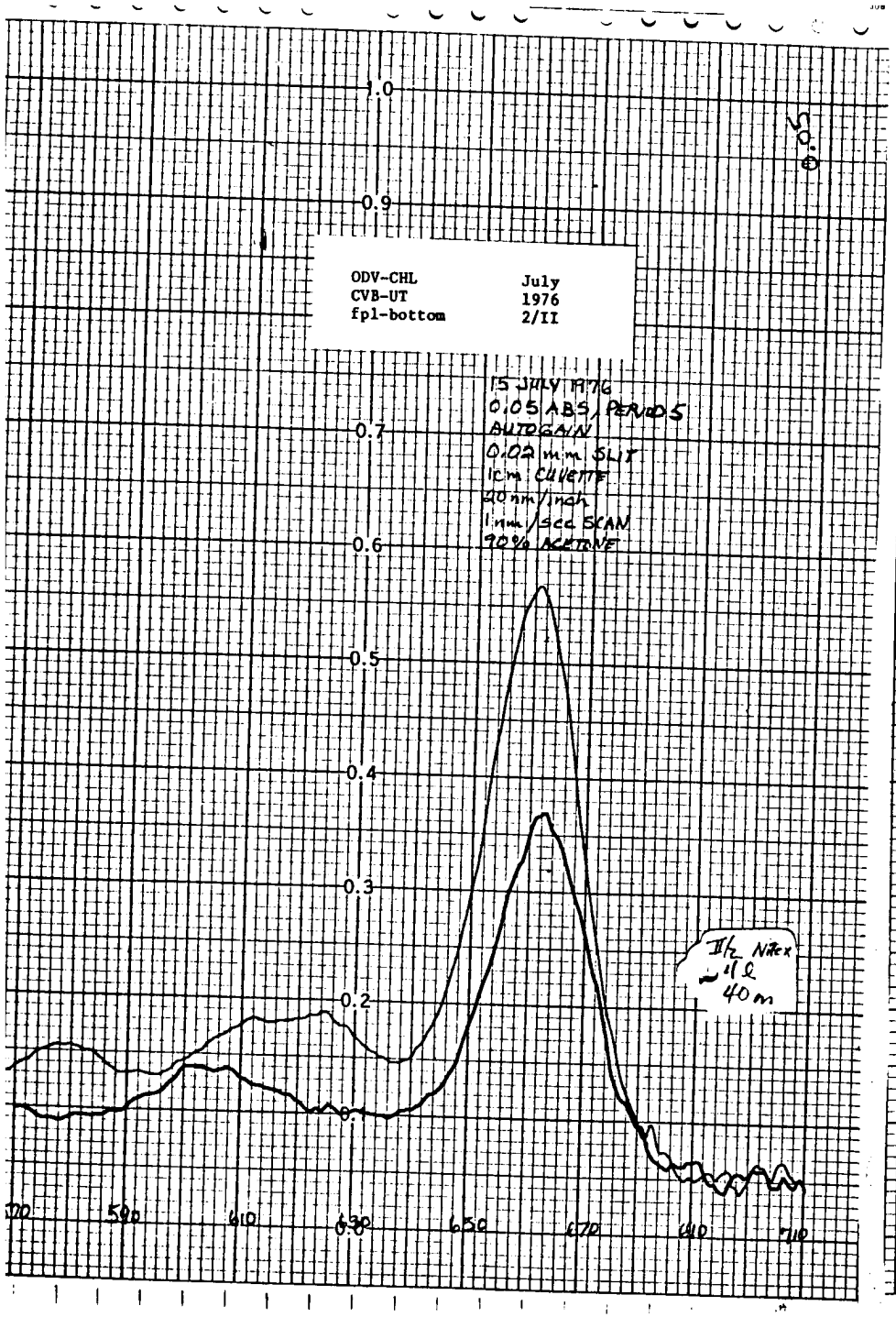

OBZ-CHL July
CVB-UT 1976
nan-bottom 1/II
15 JULY 1976
0.1 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
II-1
18m
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
510
590
610
630
650
670
690
710nm

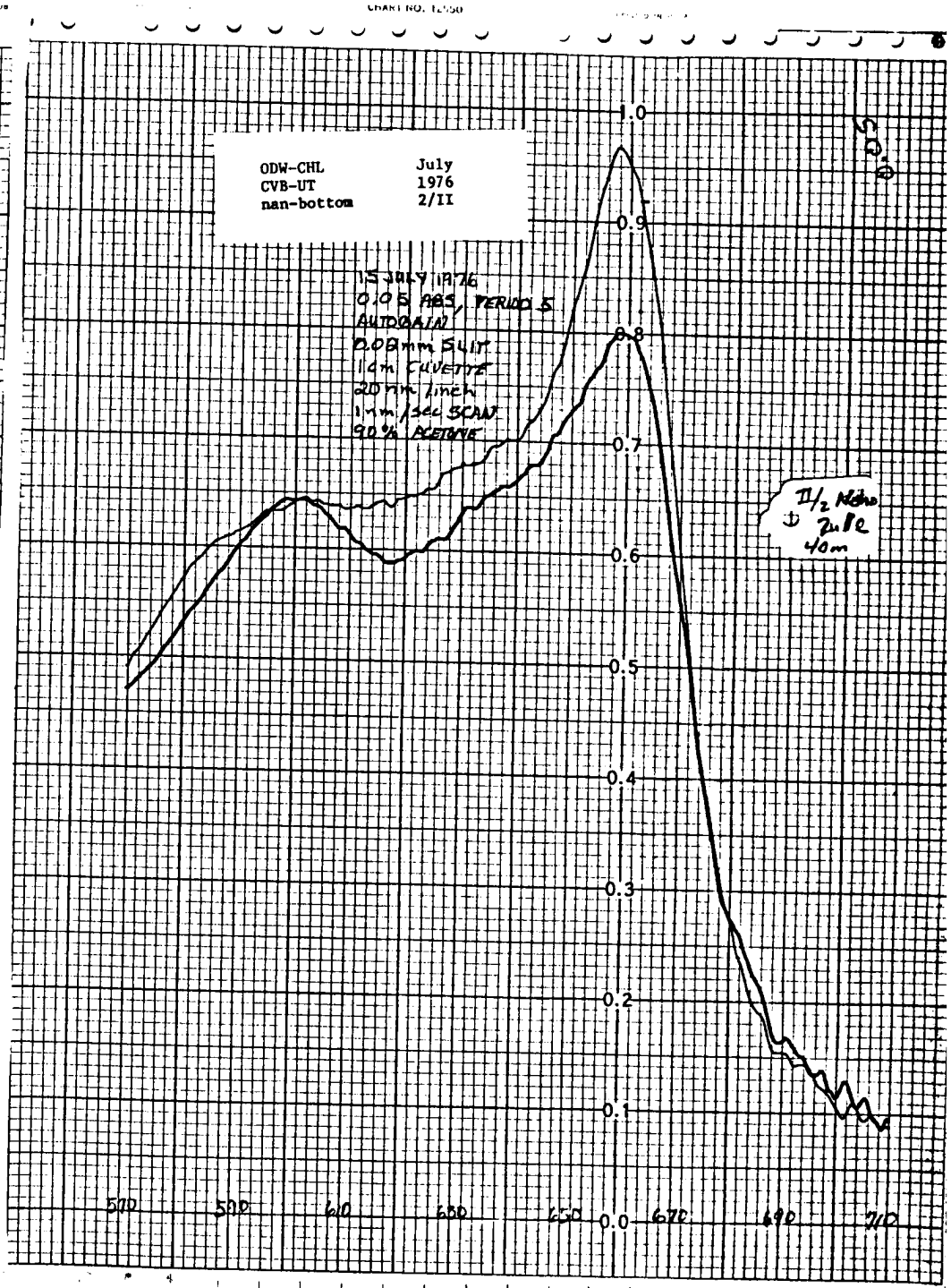

ODP-CHL
CVB-UT
fpl-surface
July
1976-
2/II
15 JULY 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
II/2 42 Nm
1 m
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
520
700 nm

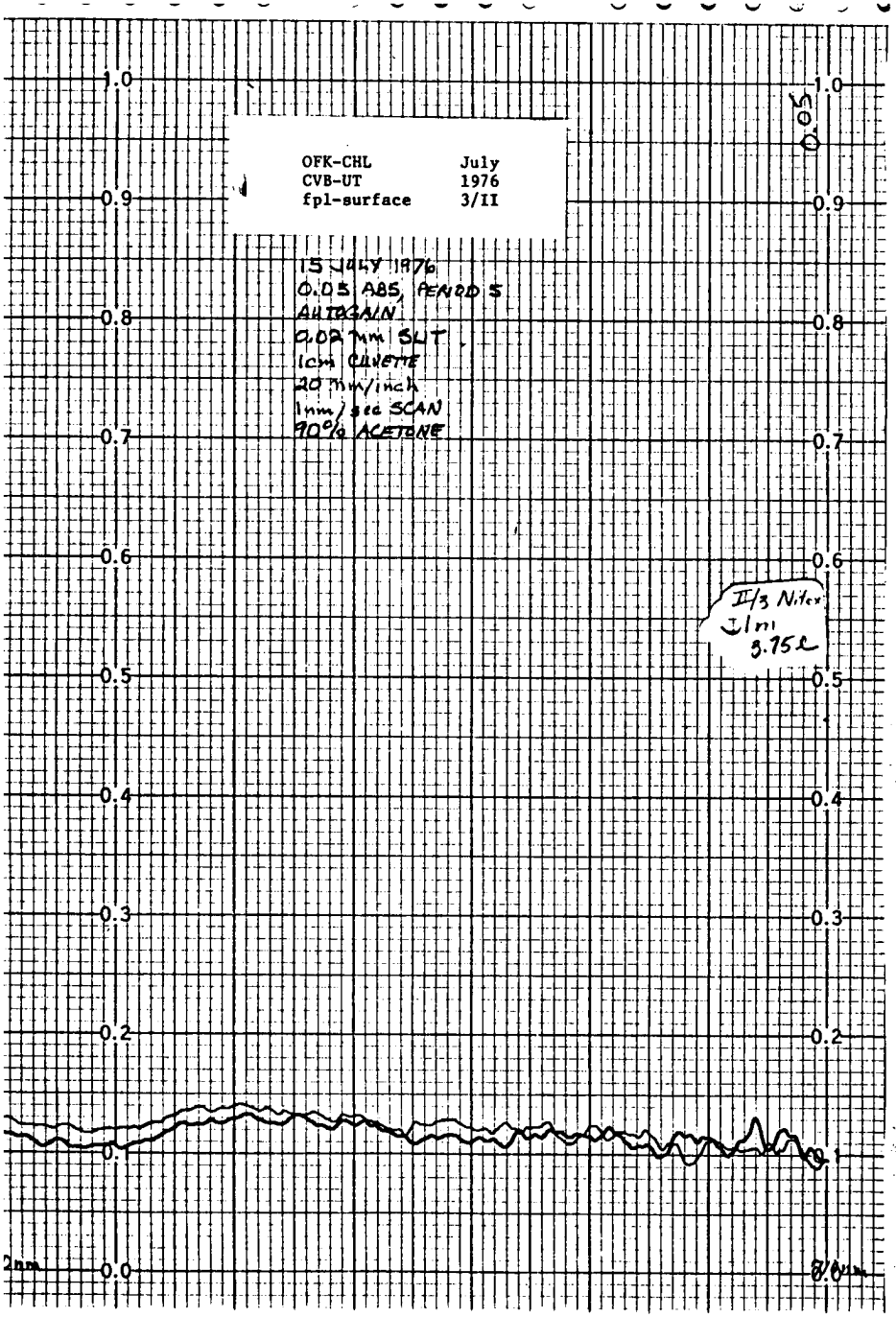

ODQ-CHL
CVB-UT
nan-surface
July
1976
2/II
15 JULY 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
II/2 Nm
1 m
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
500
550
600
650
700 nm

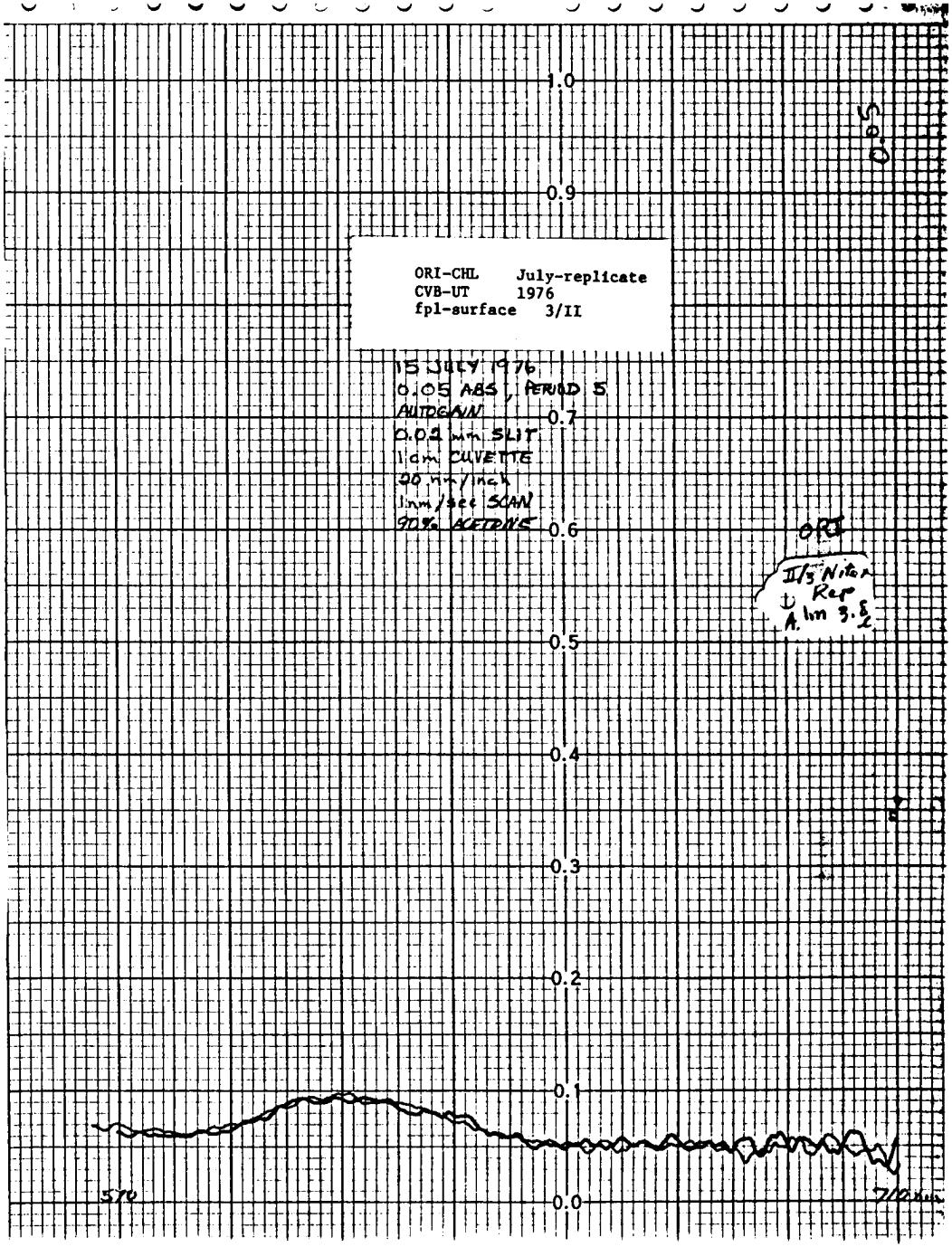

ODS-CHL
CVB-UT
fp1/1/2 p.z.
July
1976
2/II
15 JULY 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1mm/sec SCAN
90% ACETONE
II/2 Nitex
↓ 4.2
15m
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
710nm

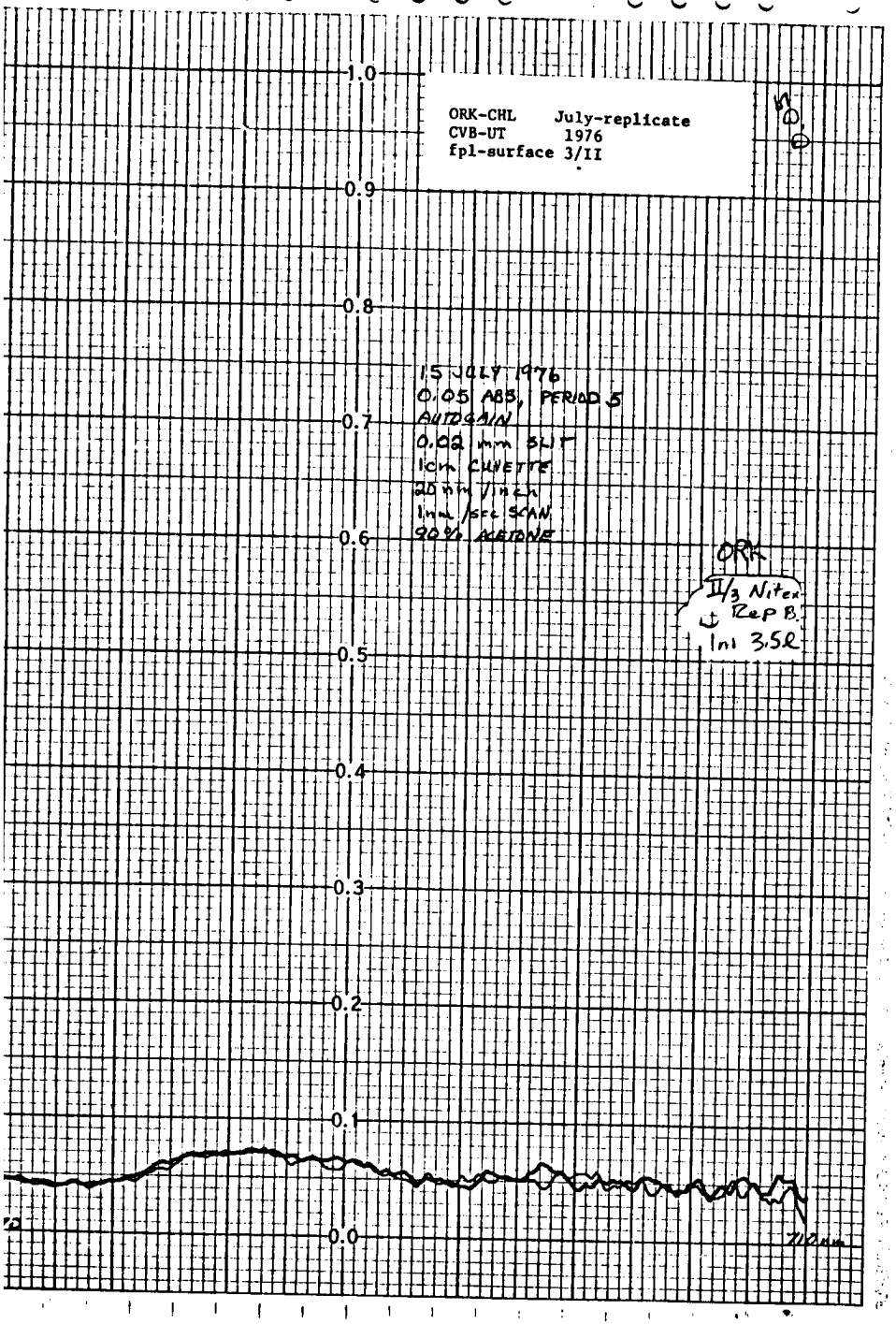

ODT-CHL
CVB-UT
nan-1/2 p.z.
July
1976
2/II
15 JULY 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1mm/sec SCAN
90% ACETONE
II/2 Nanc
↓15m
3.1R
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
630
650
710

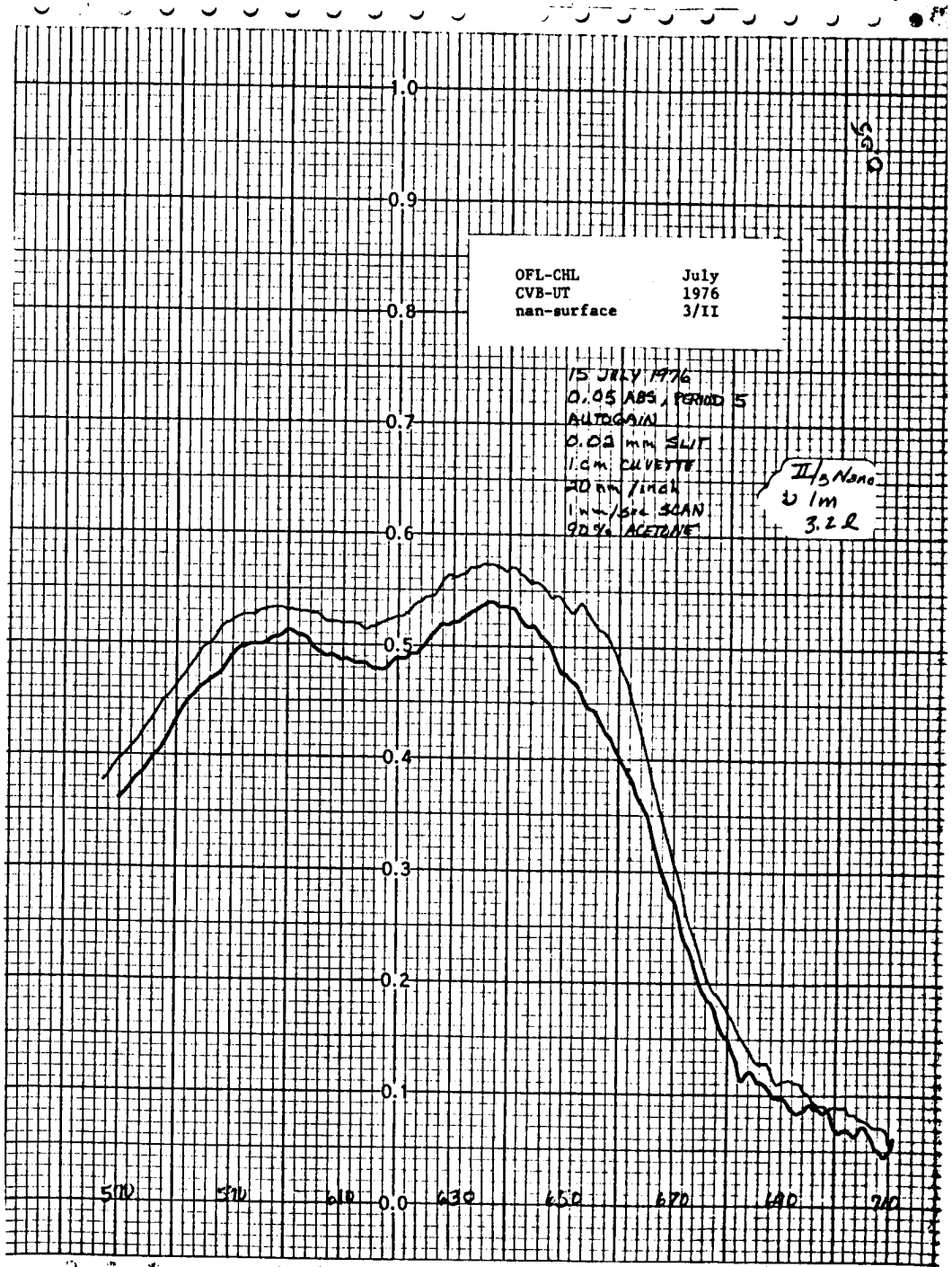

ODV-CHL July
CVB-UT 1976
fpl-bottom 2/II
15 JULY 1976
0.05 ABS/PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
40 nm/inch
1 mm/sec SCAN
90% ACETONE
II/2 Nitex
~11 Q
40m
1.0
0.9
0.7
0.6
0.5
0.4
0.3
0.2
0.1
590
610
630
650
670
690
710

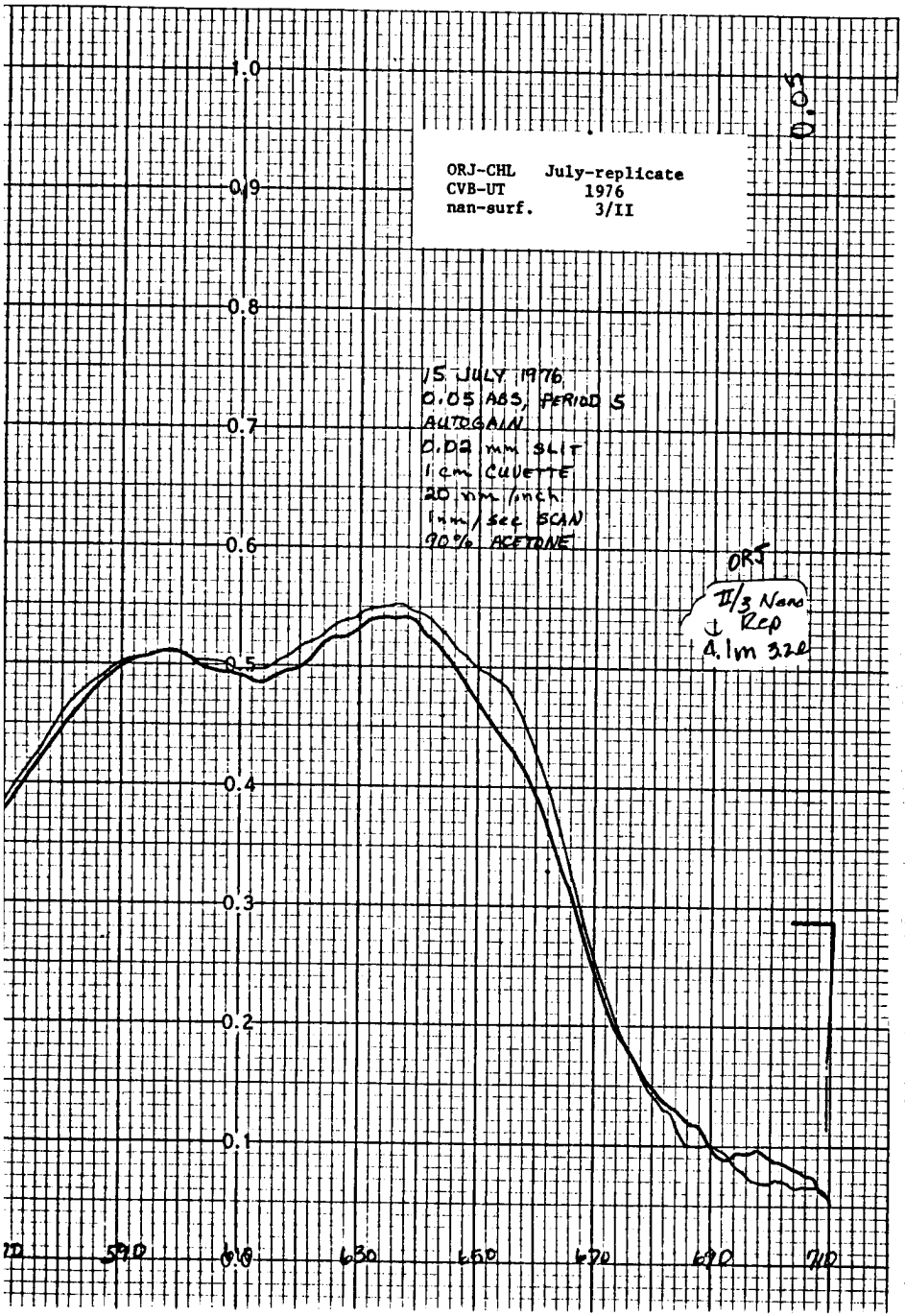

ODW-CHL July
CVB-UT 1976
nan-bottom 2/II
15 JULY 1976
0.05 ABS/PERIOD 5
AUTOGAIN
0.08 mm SLIT
1cm CUVETTE
20 nm/inch
1 mm/sec SCAN
90% ACETONE
II/2 Nitex
2 Q
40m
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
610
630
650
670
690
710

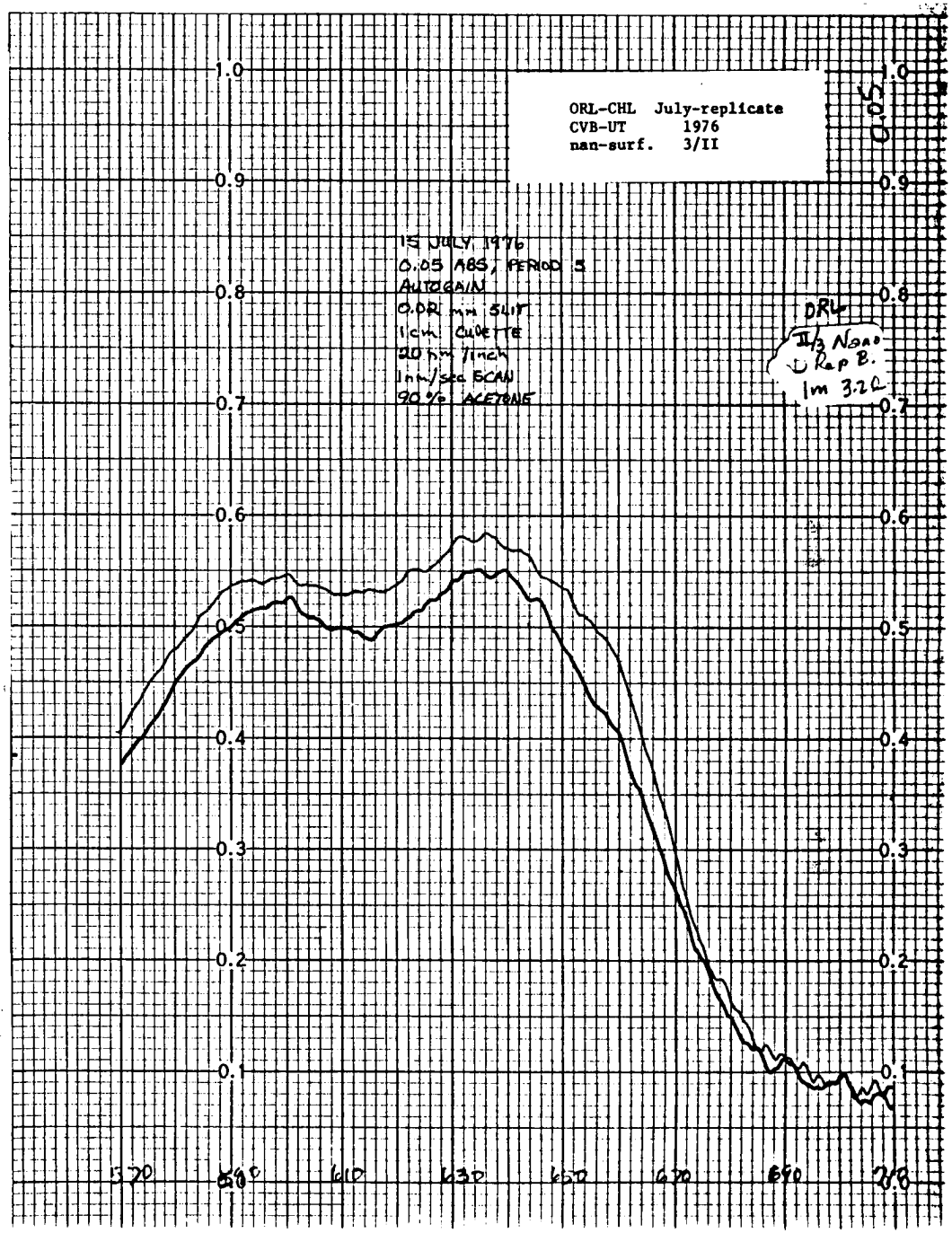

OFK-CHL July
CVB-UT 1976
fpl-surface 3/II
15 JULY 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
II/3 Niter
1 ml
3.75 l
0.05
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
2nm

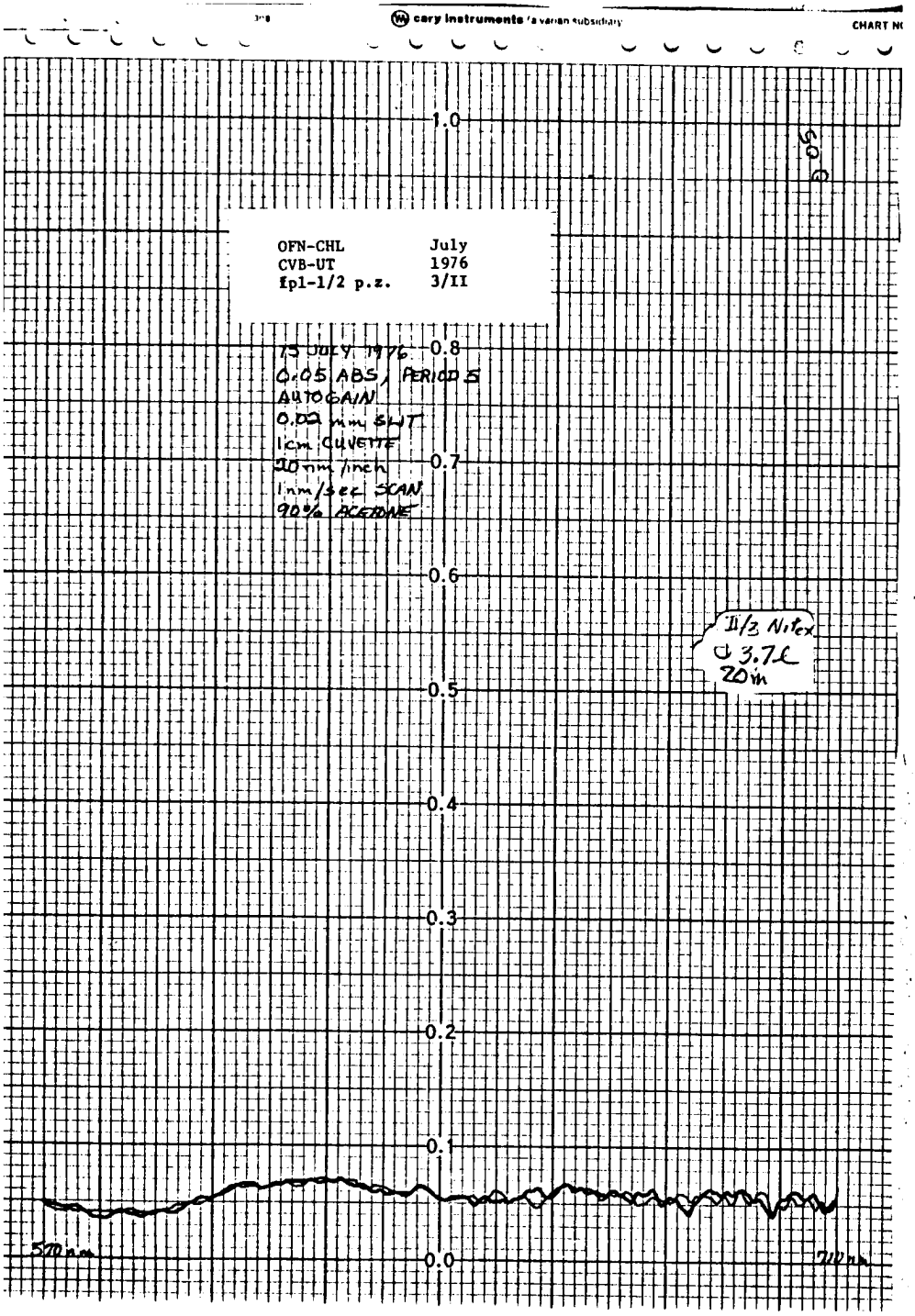

ORI-CHL July-replicate
CVB-UT 1976
fpl-surface 3/II
15 JULY 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
ORI
II/3 Niter
Rep
A. lm 3.8 l
0.05
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570

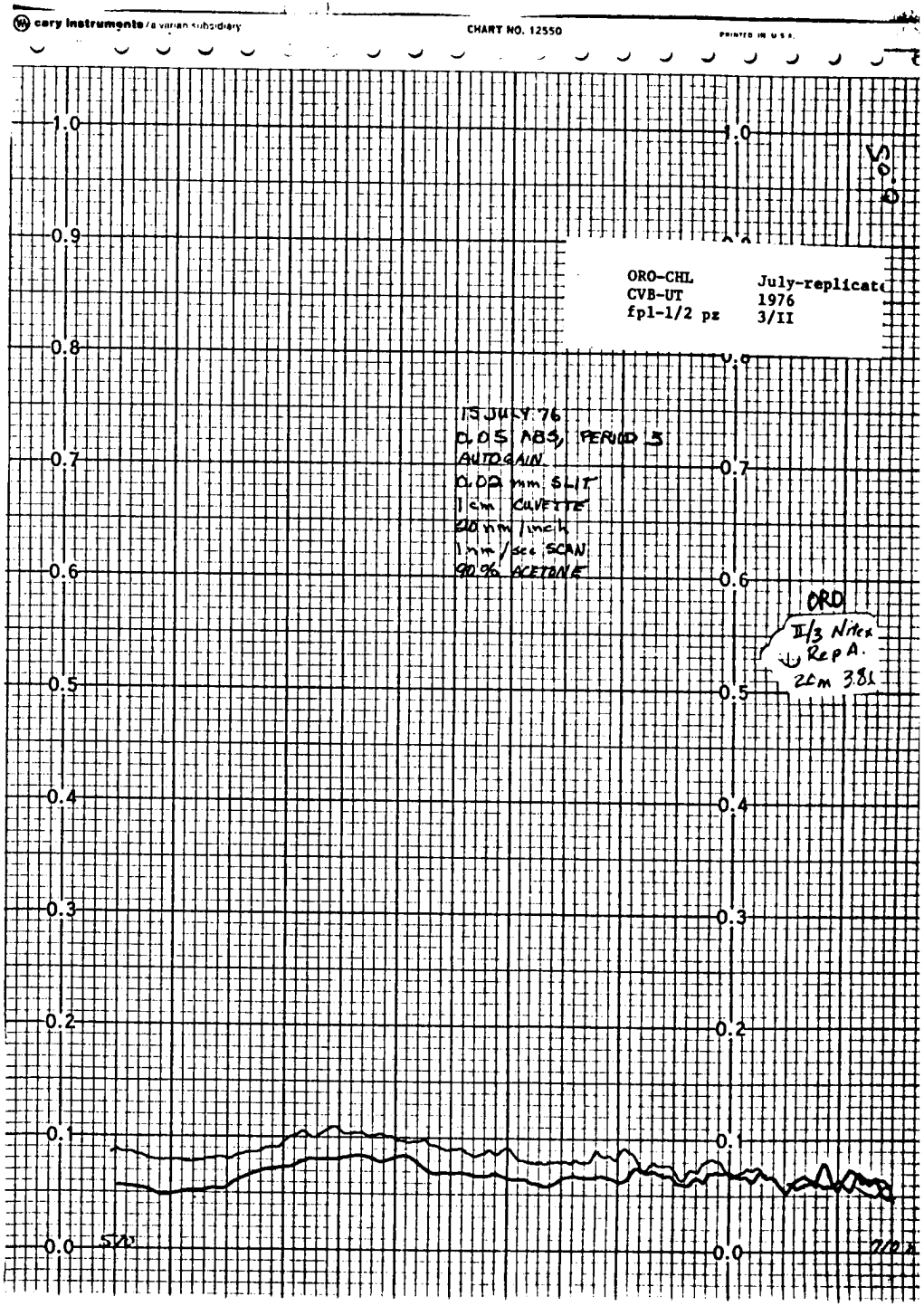

ORK-CHL July-replicate
CVB-UT 1976
fpl-surface 3/II
15 JULY 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1 in/sec SCAN
90% ACETONE
ORK
II/3 Nitex
Rep B.
1 in 3.5 ℓ
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0

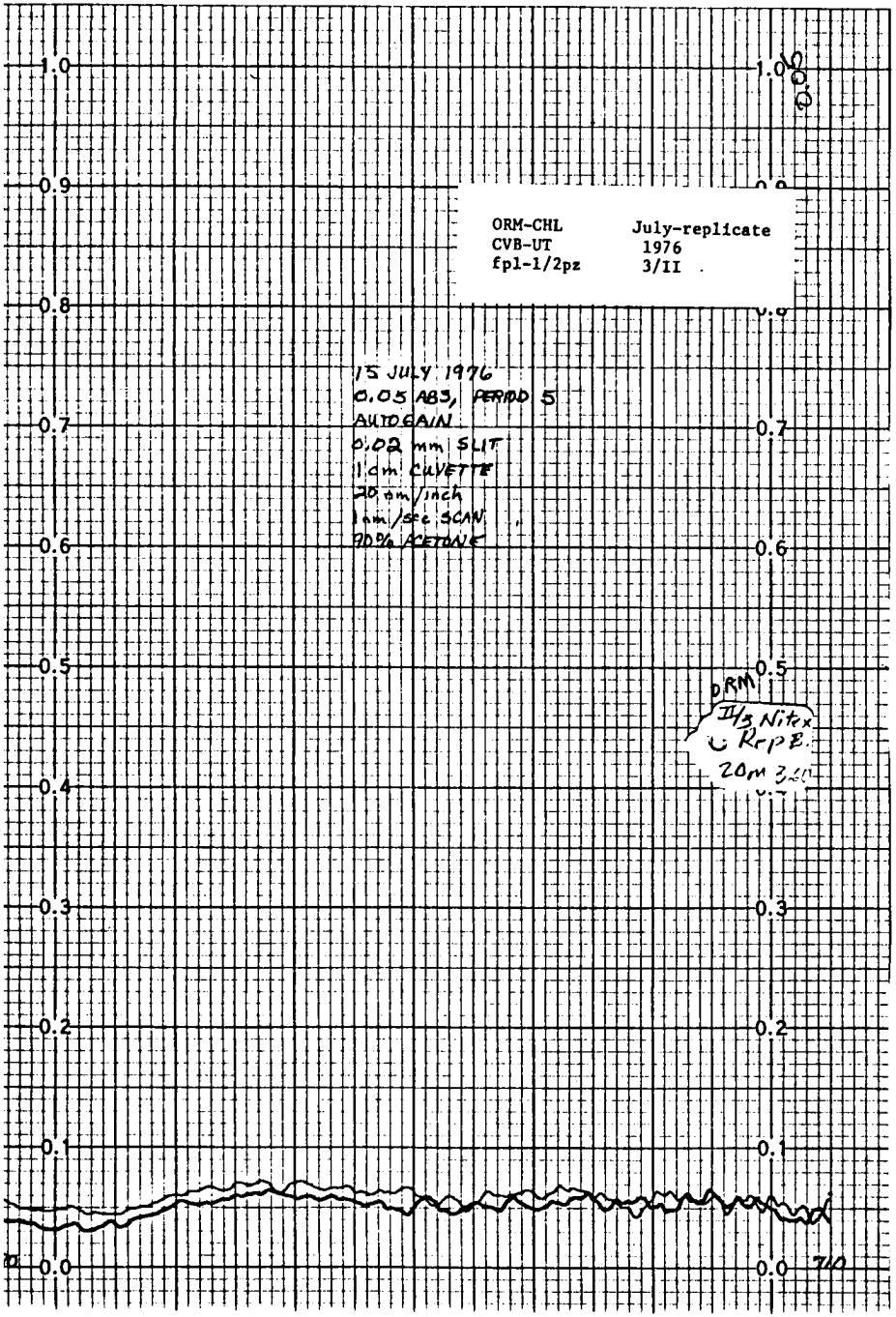

OFL-CHL July
CVB-UT 1976
nan-surface 3/II
15 JULY 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1 cm CUVETTE
20 nm/inch
1 in/sec SCAN
90% ACETONE
II/3 Nano
1 in
3.2 ℓ
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
510
590
610
630
650
670
690
740

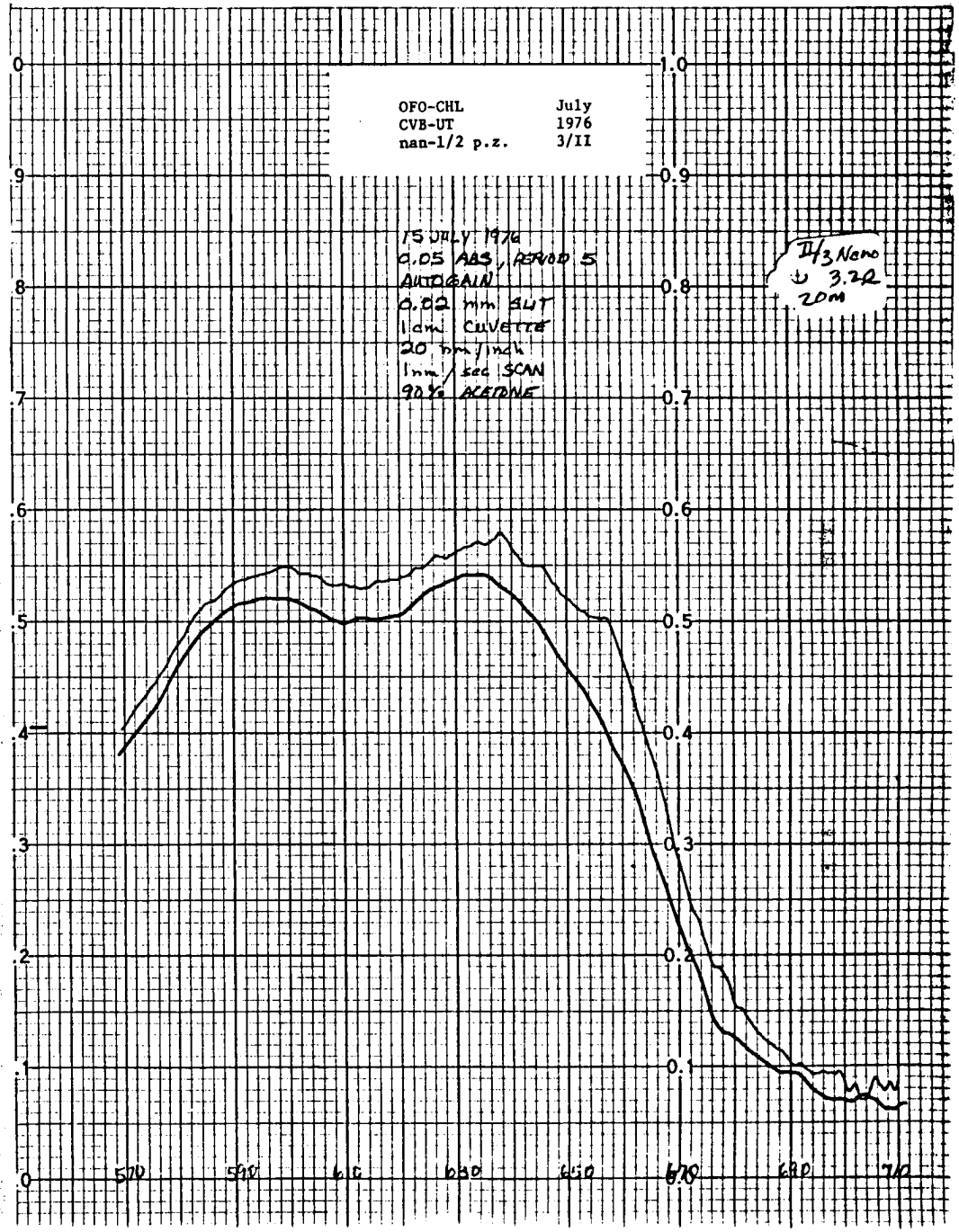

ORJ-CHL July-replicate
CVB-UT 1976
nan-surf. 3/II
15 JULY 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
ORJ
II/3 Nano
Rep
A. Im 3.2e
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
590
610
630
650
670
690
710

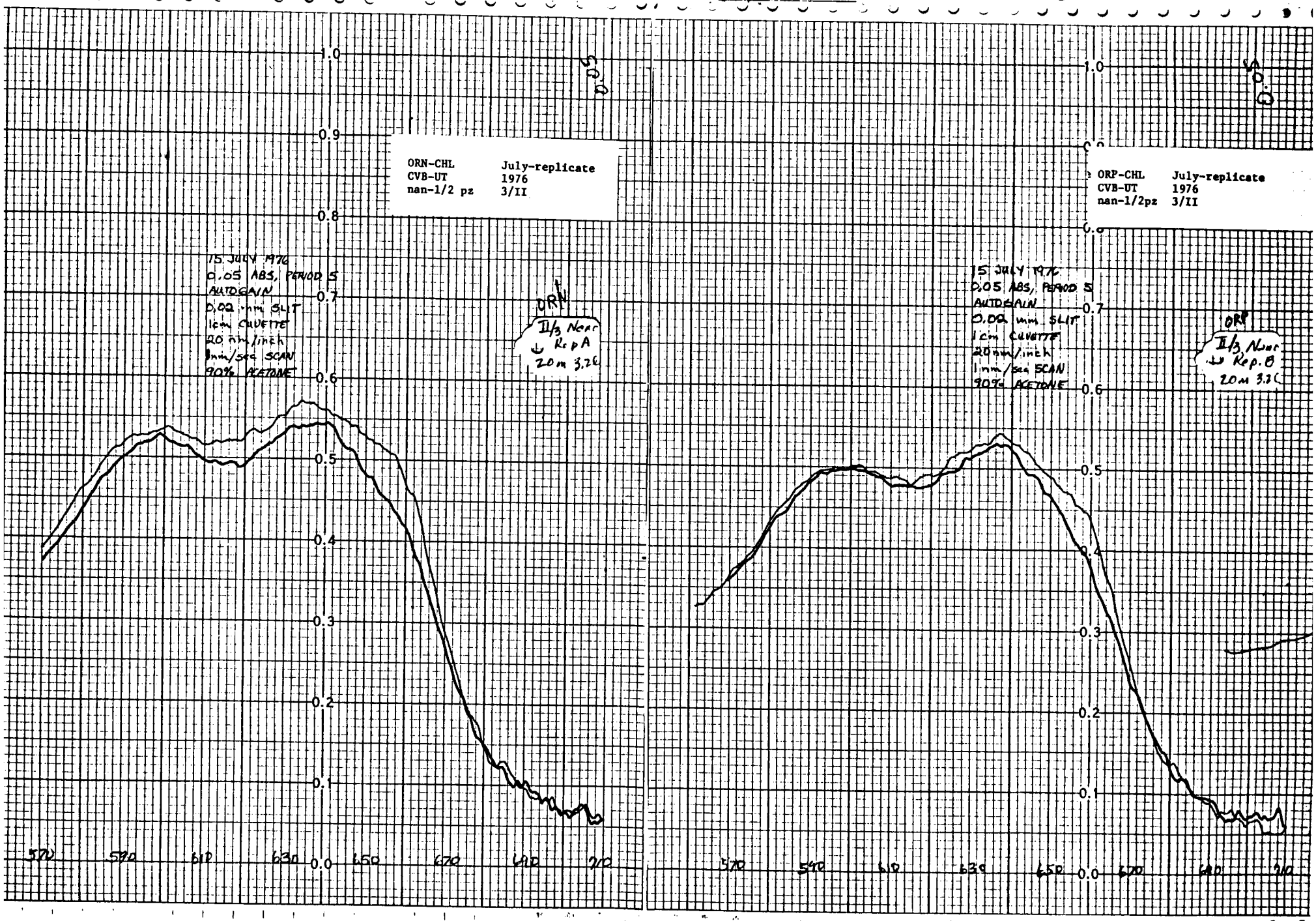

ORL-CHL July-replicate
CVB-UT 1976
nan-surf. 3/II
15 JULY 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
ORL
II/3 Nano
Rep B.
Im 3.2e
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710

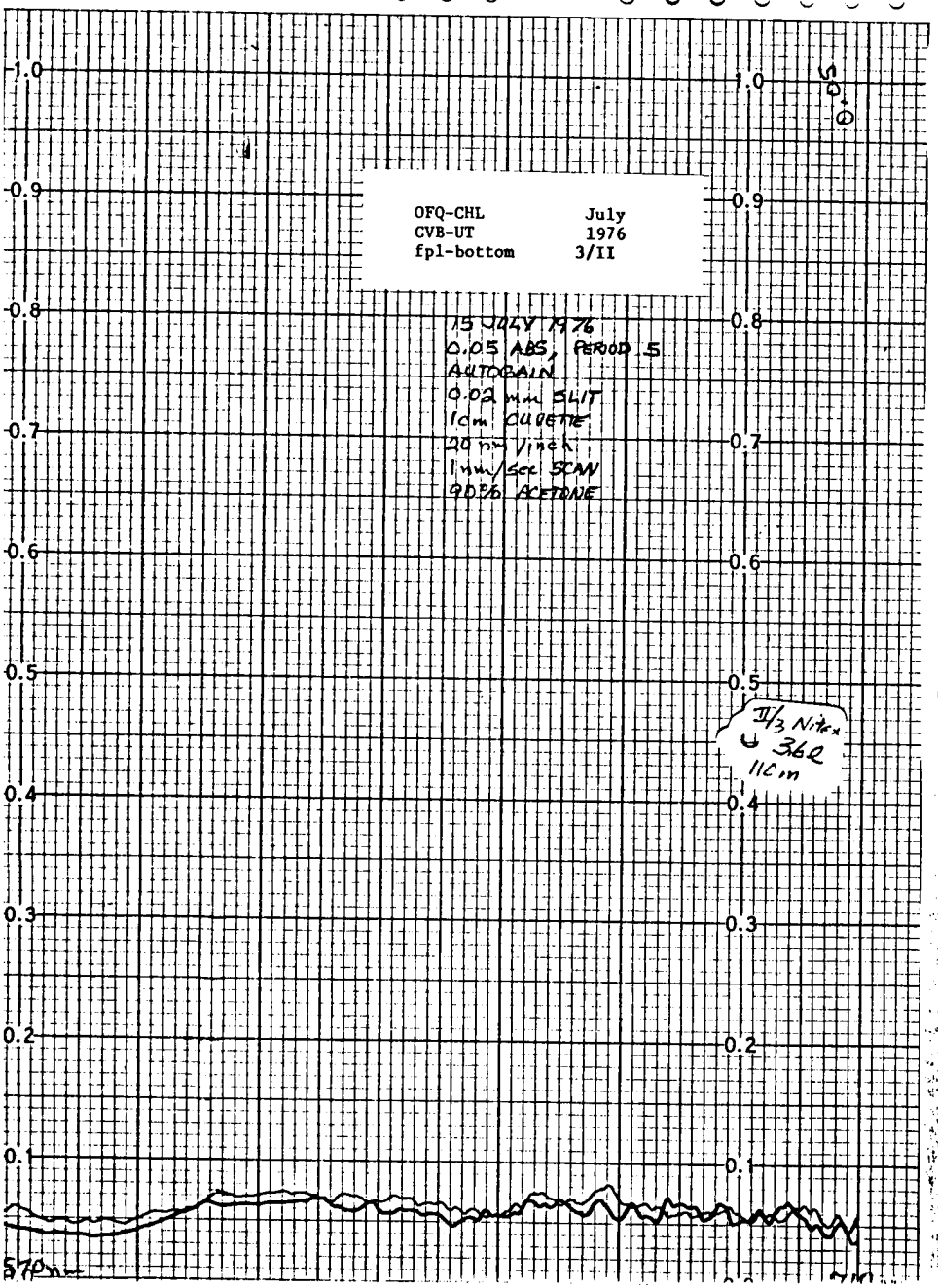

cary instruments / a varian subsidiary
OFN-CHL July
CVB-UT 1976
fpl-1/2 p.z. 3/II
15 JULY 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
II/3 Nitex
3.7L
20m
1.0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
520 nm
710 nm

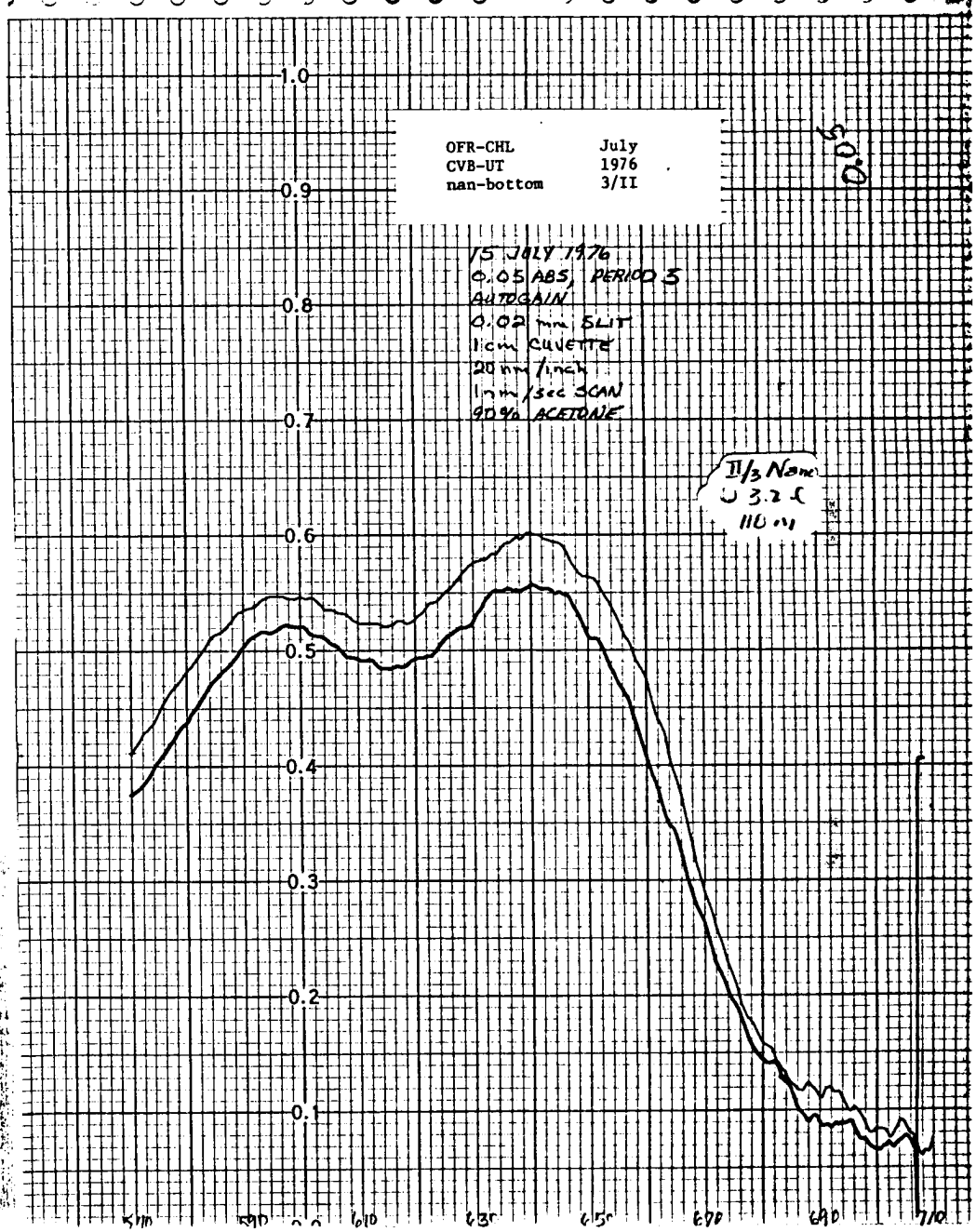

cary instruments / a varian subsidiary
CHART NO. 12550
ORO-CHL July-replicat
CVB-UT 1976
fpl-1/2 pz 3/II
15 JULY 76
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
ORD
II/3 Nitex
Rep A.
2cm 3.8L
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
520
710

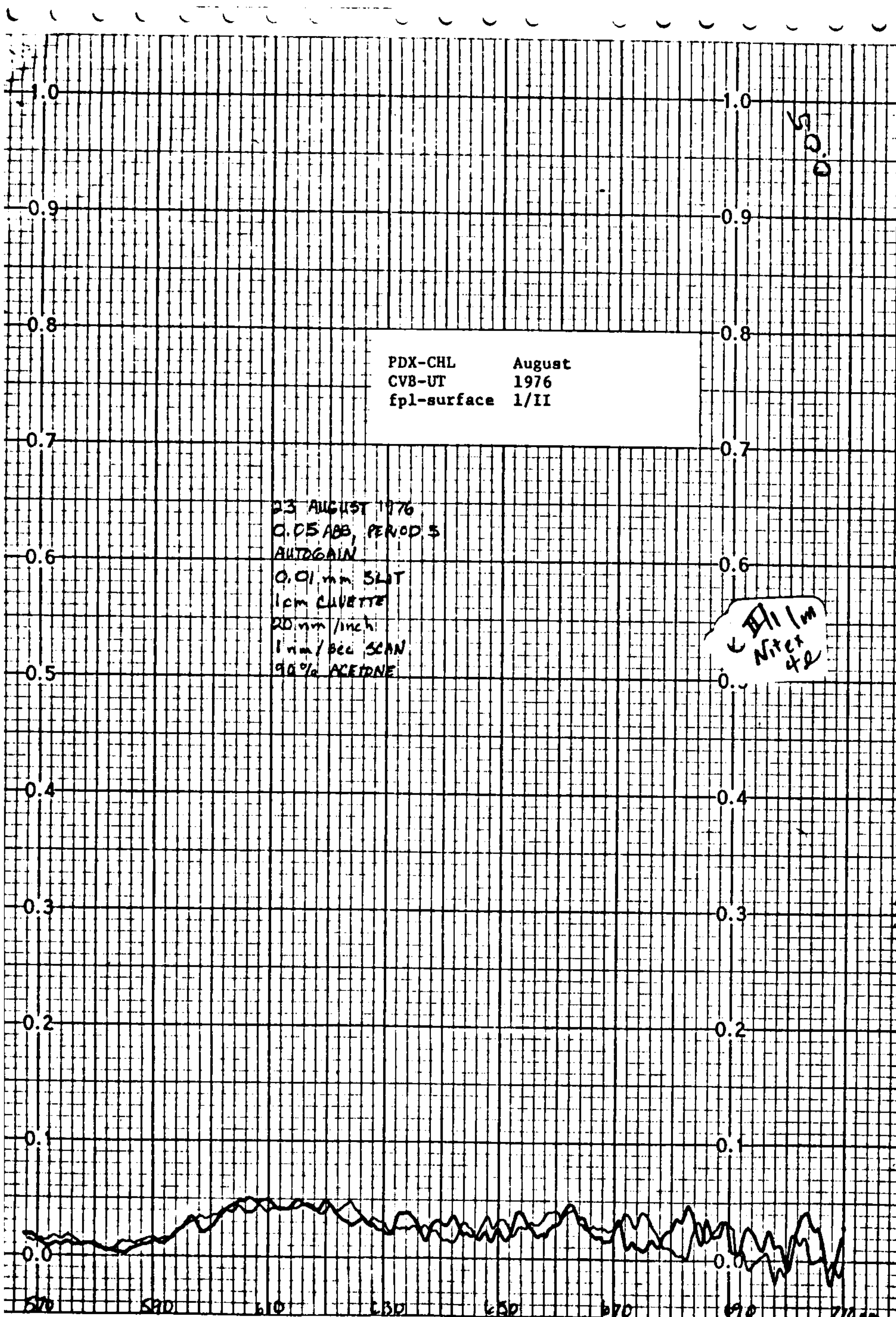

ORM-CHL July-replicate
CVB-UT 1976
fpl-1/2pz 3/II
15 JULY 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
ORM
II/3 Nitex
Rep B.
20m
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
740

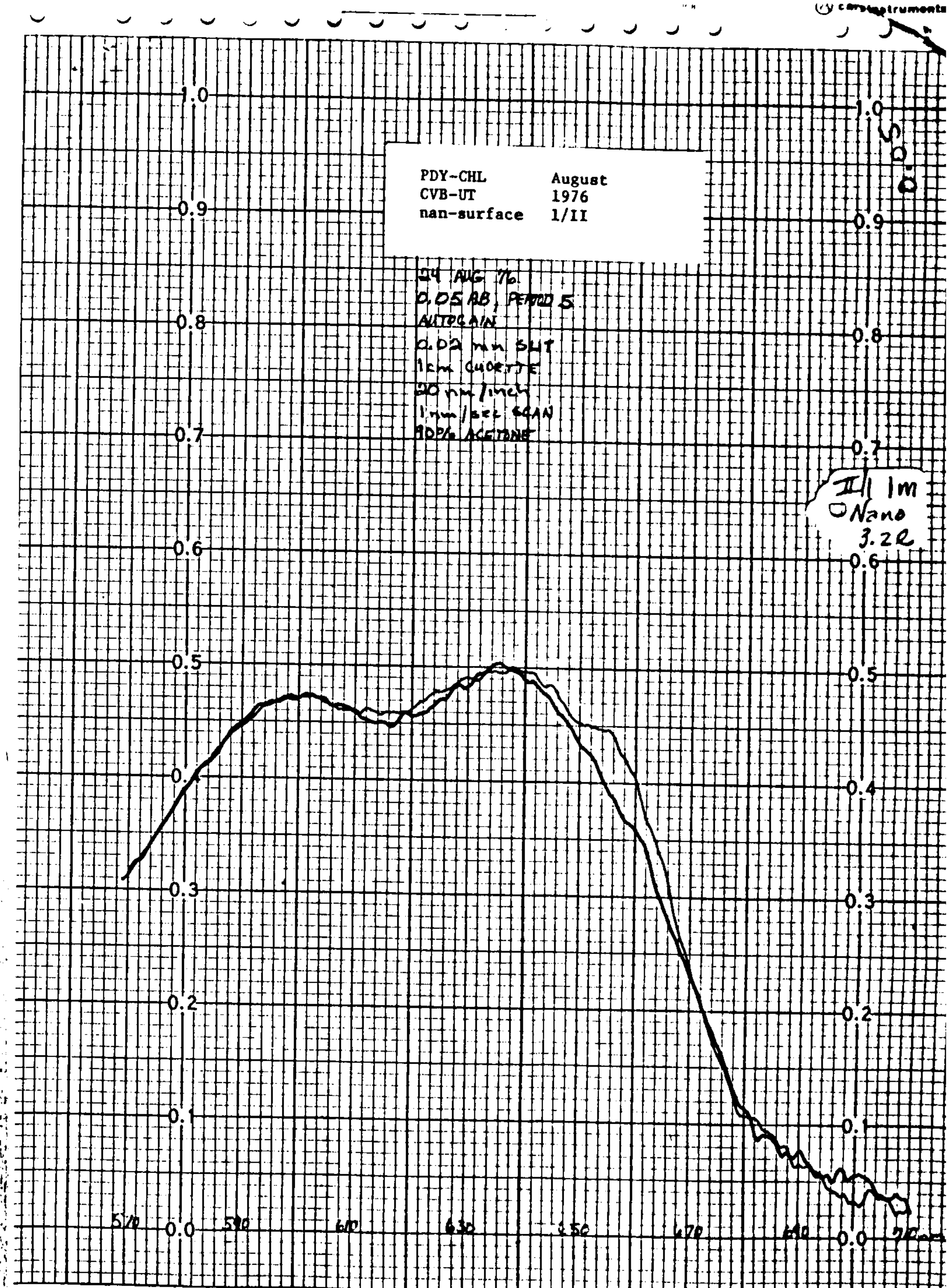

OFO-CHL July
CVB-UT 1976
nan-1/2 p.z. 3/II
15 JULY 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
II/3 Nano
3.2R
20m
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
570
590
610
630
650
670
690
710

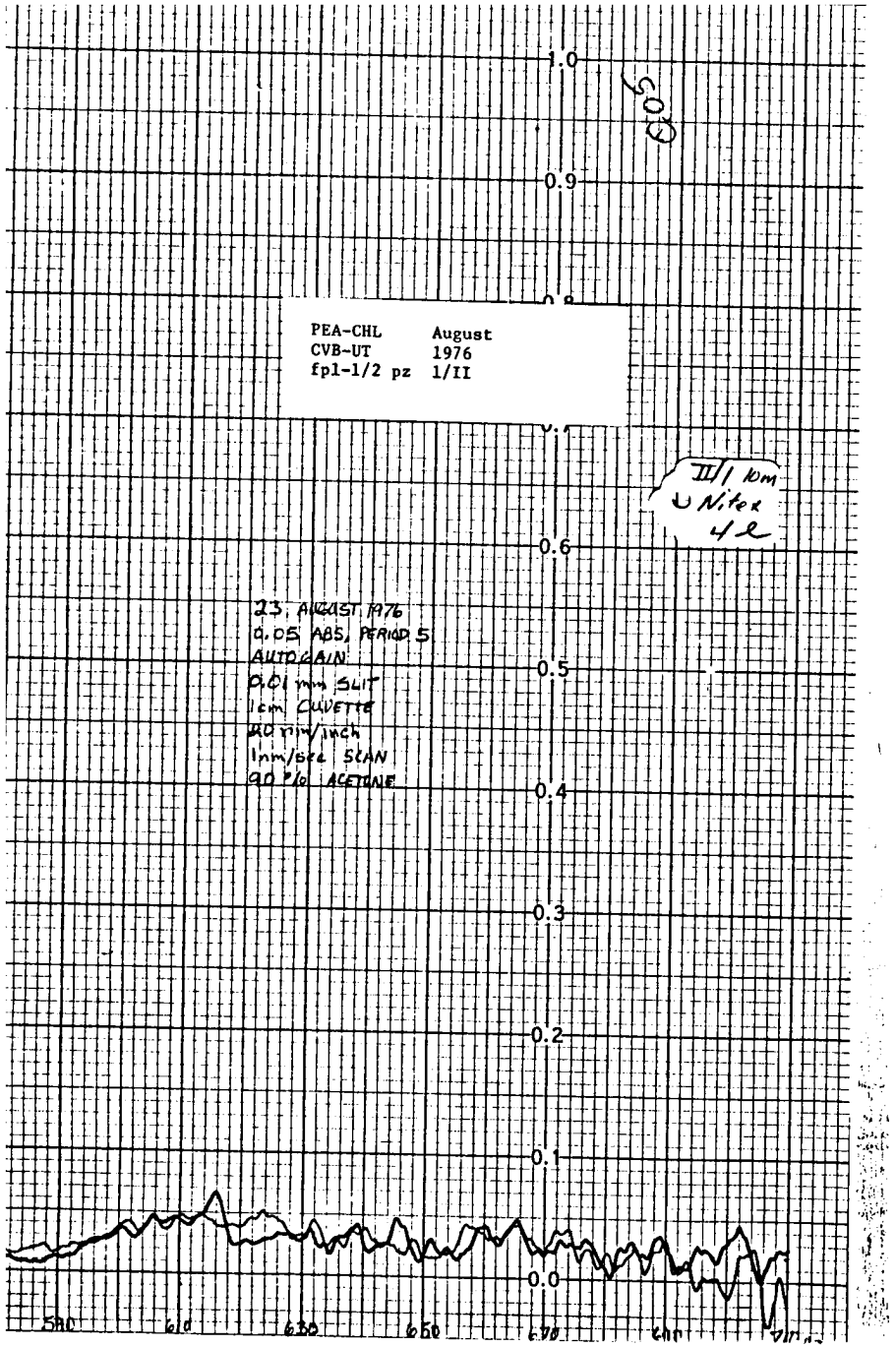

ORN-CHL July-replicate
CVB-UT 1976
nan-1/2 pz 3/II
15 JULY 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1mm/sec SCAN
90% ACETONE
ORN
II/3 Near
Rep A
20m 3.2C
ORP-CHL July-replicate
CVB-UT 1976
nan-1/2pz 3/II
15 JULY 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20nm/inch
1mm/sec SCAN
90% ACETONE
ORP
II/3 Near
Rep B
20m 3.2C
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710

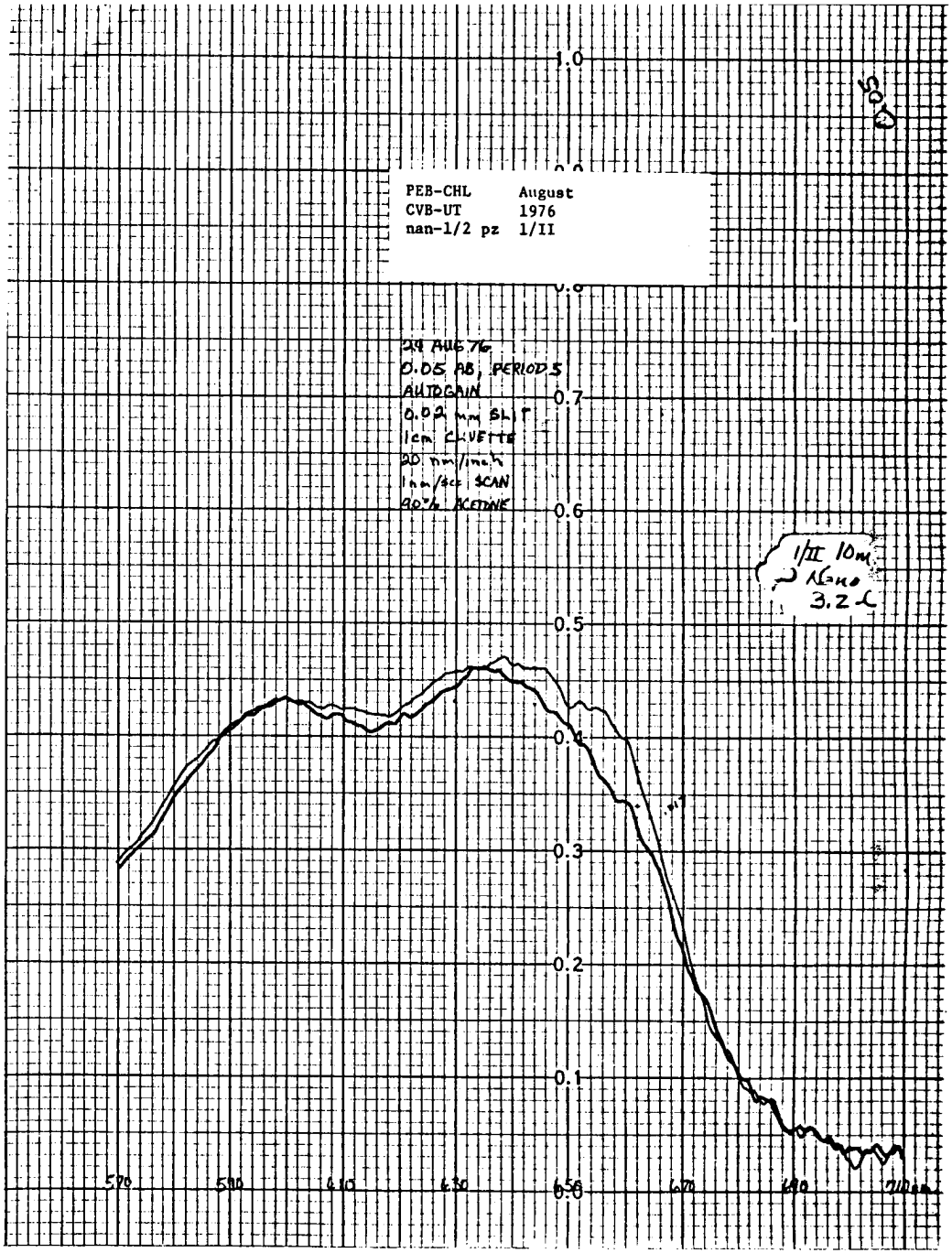

OFQ-CHL July
CVB-UT 1976
fpl-bottom 3/II
15 JULY 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
II/3 Nitex
U 36Q
11C m
570nm

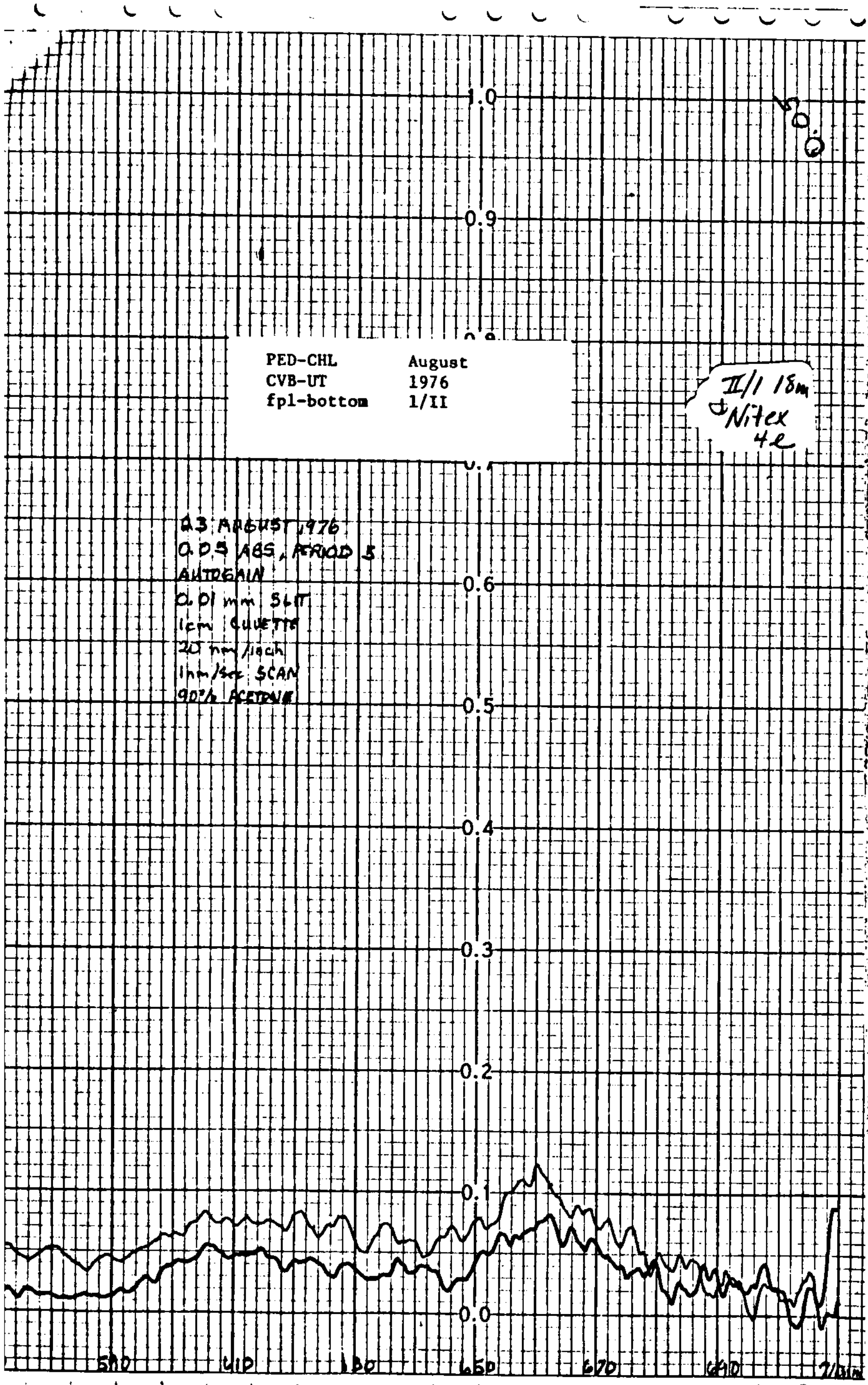

OFR-CHL July
CVB-UT 1976
nan-bottom 3/II
15 JULY 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
II/3 Nano
U 32C
110 m
710


PDX-CHL August
CVB-UT 1976
fpl-surface 1/II
23 AUGUST 1976
0.05 ABB, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
O.D.
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 nm

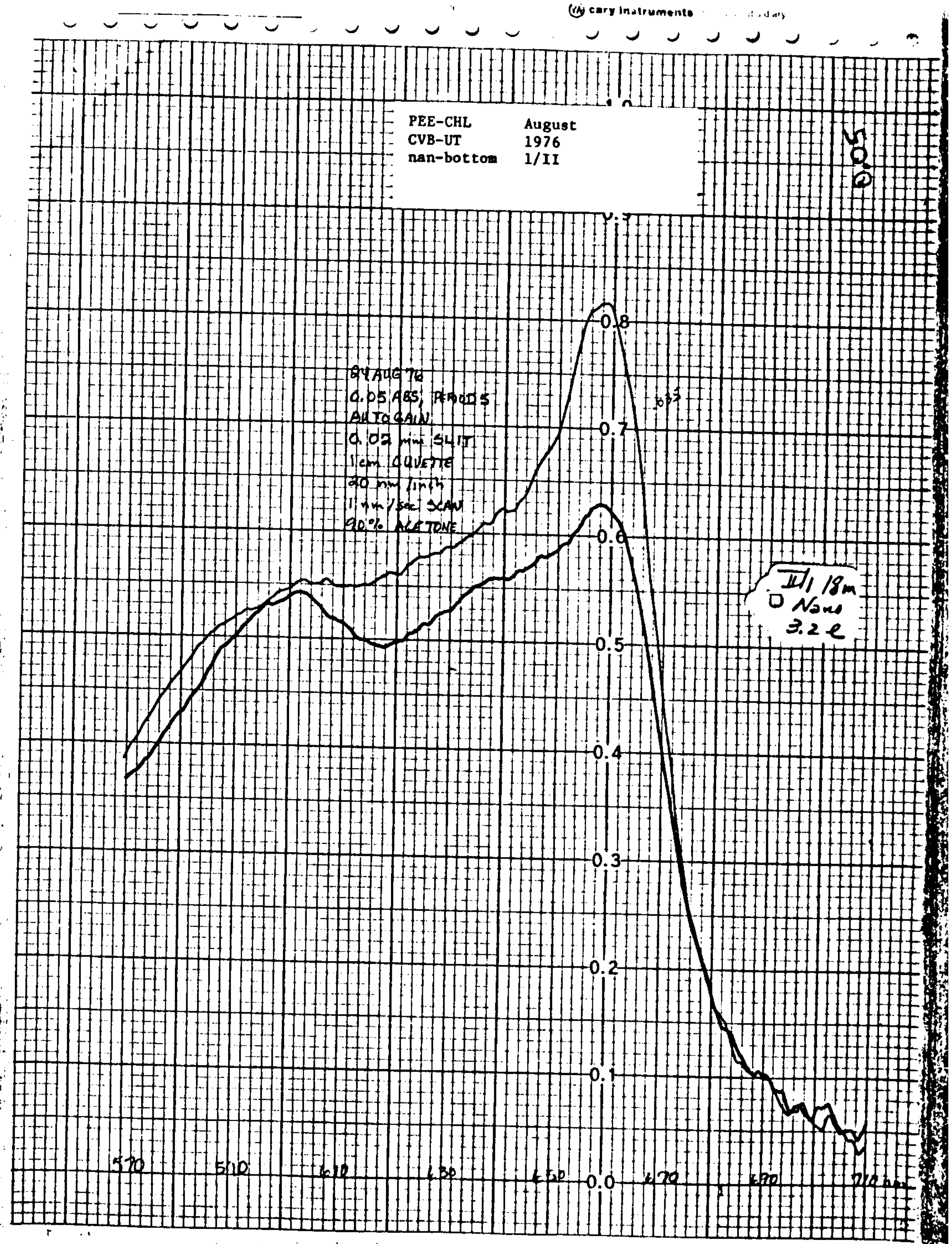

PDY-CHL August
CVB-UT 1976
nan-surface 1/II
24 AUG 76
0.05 AB, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
O.D.
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 nm


PEA-CHL August
CVB-UT 1976
fpl-1/2 pz 1/II
III/1 10m
Nitex
4/2
23. AUGUST 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90 % ACETONE
1.0
0.9
0.6
0.5
0.4
0.3
0.2
0.1
0.0
580
610
630
650
670
690
710nm

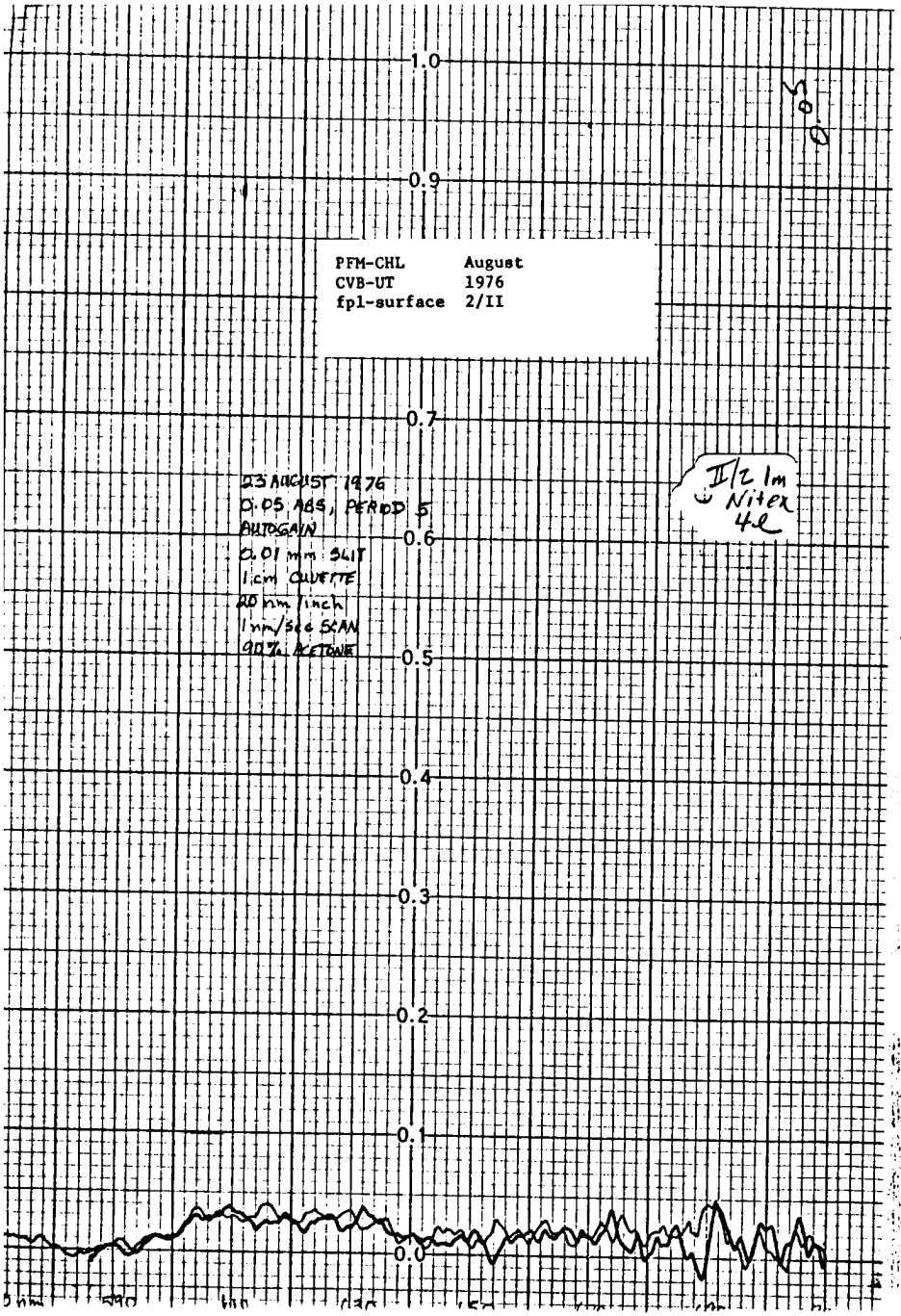

PEB-CHL August
CVB-UT 1976
nan-1/2 pz 1/II
29 AUG 76
0.05 AB, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
I/II 10m
Nitex
3.2
1.0
0.7
0.6
0.5
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710nm

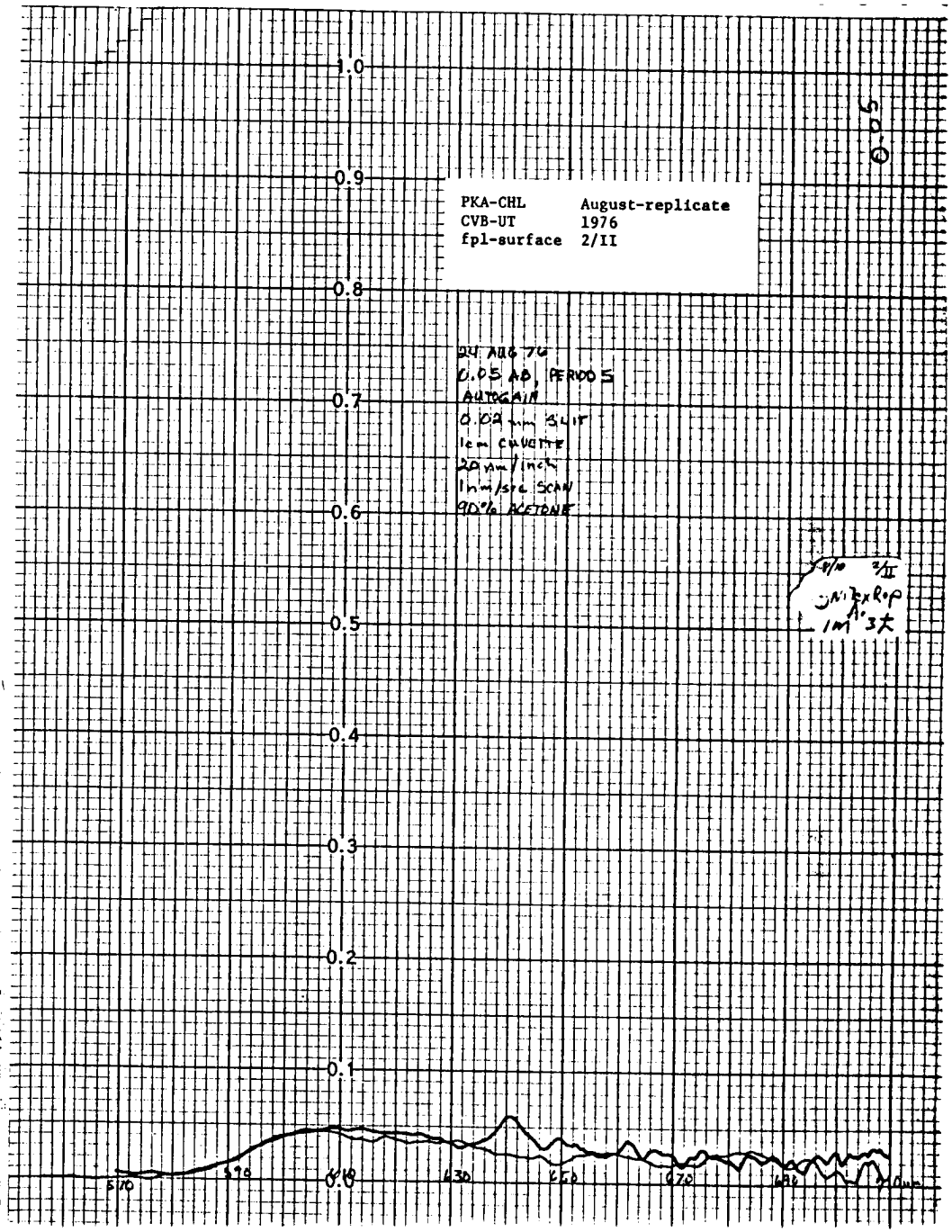


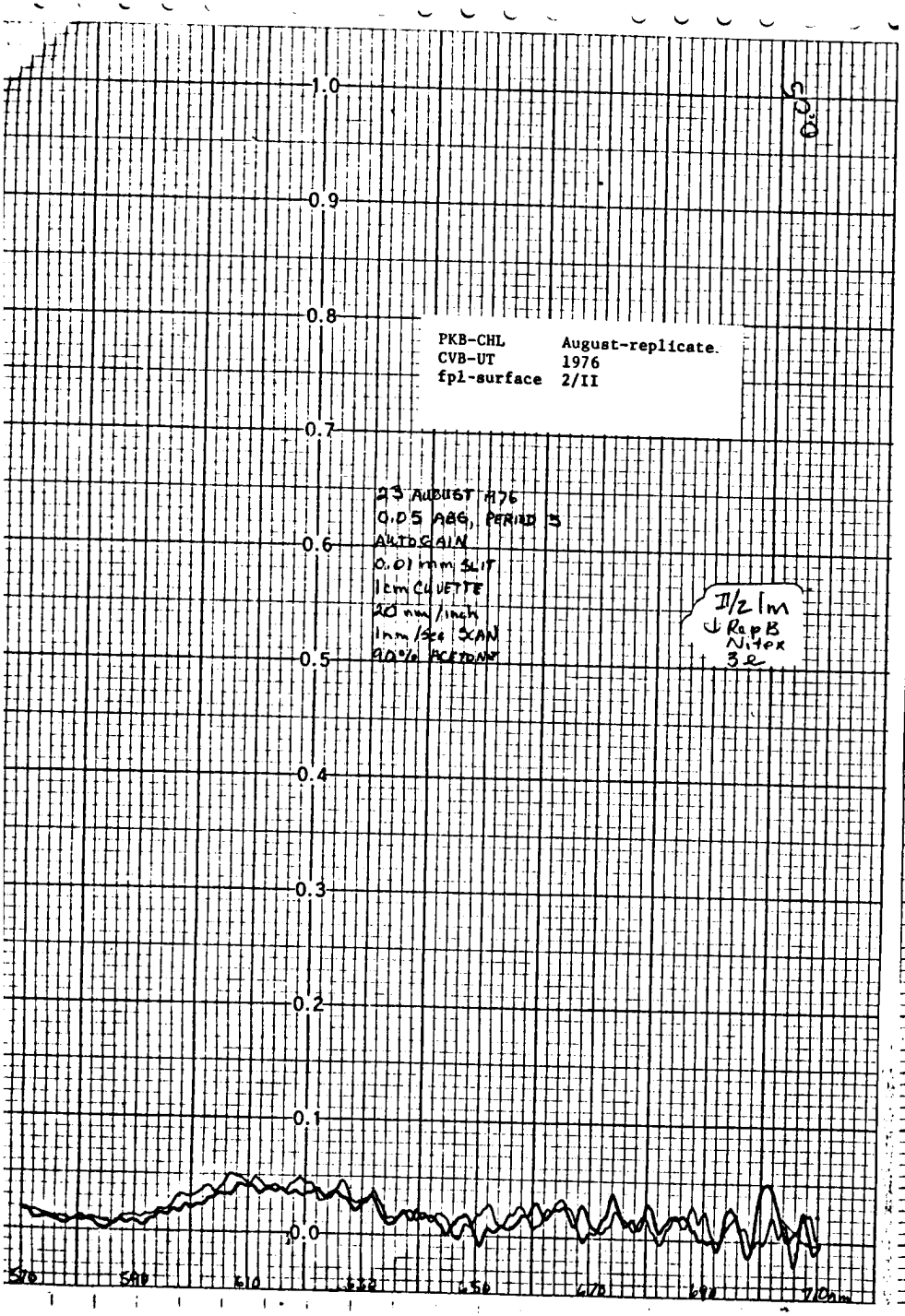
PED-CHL August
CVB-UT 1976
fpl-bottom 1/II
03 AUGUST 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
II/1 18m
Nitex
4l
1.0
0.9
0.6
0.5
0.4
0.3
0.2
0.1
0.0

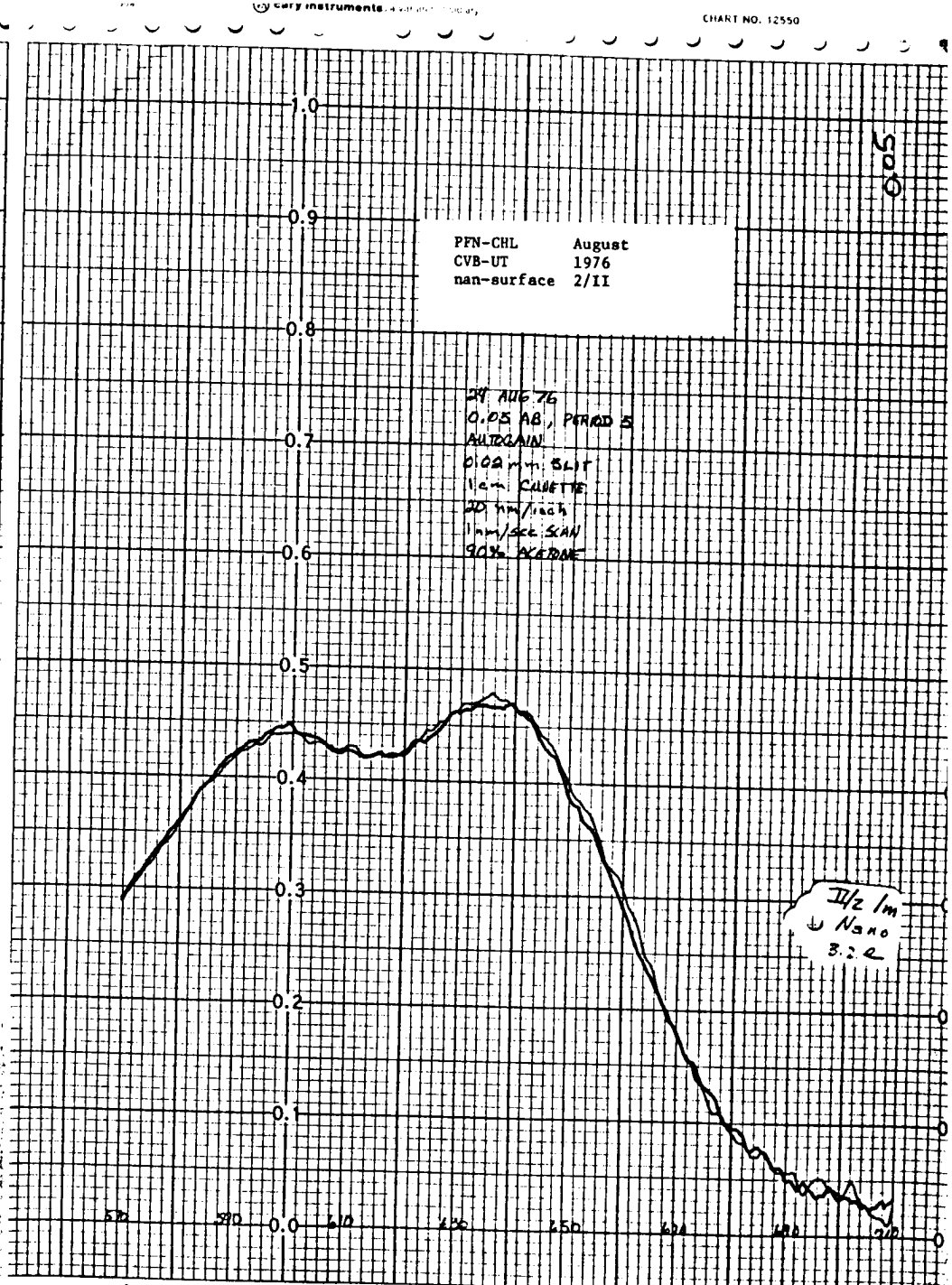


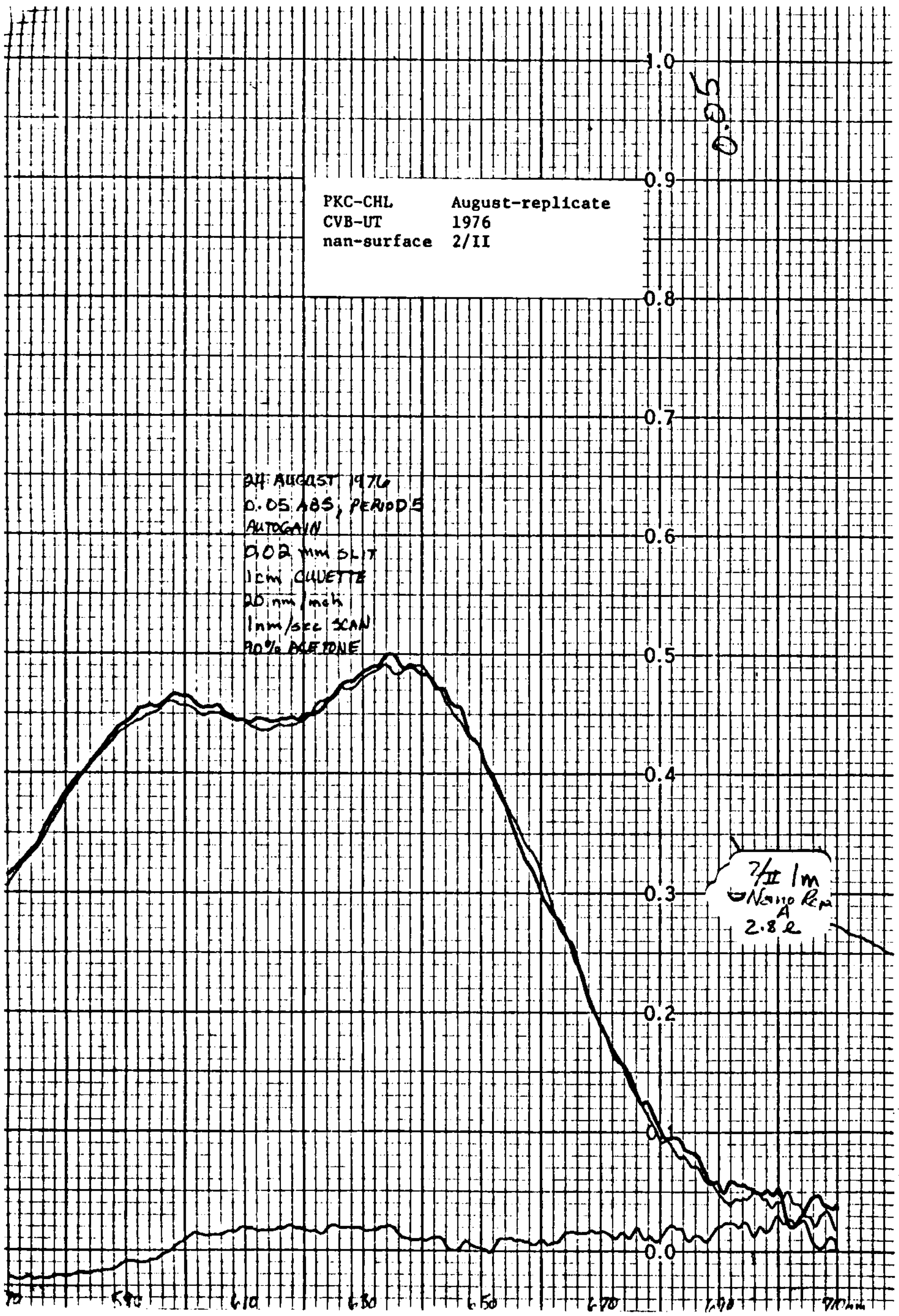
cary instruments
PEE-CHL August
CVB-UT 1976
nan-bottom 1/II
04 AUG 76
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
II/1 18m
Nano
3.2 l
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0

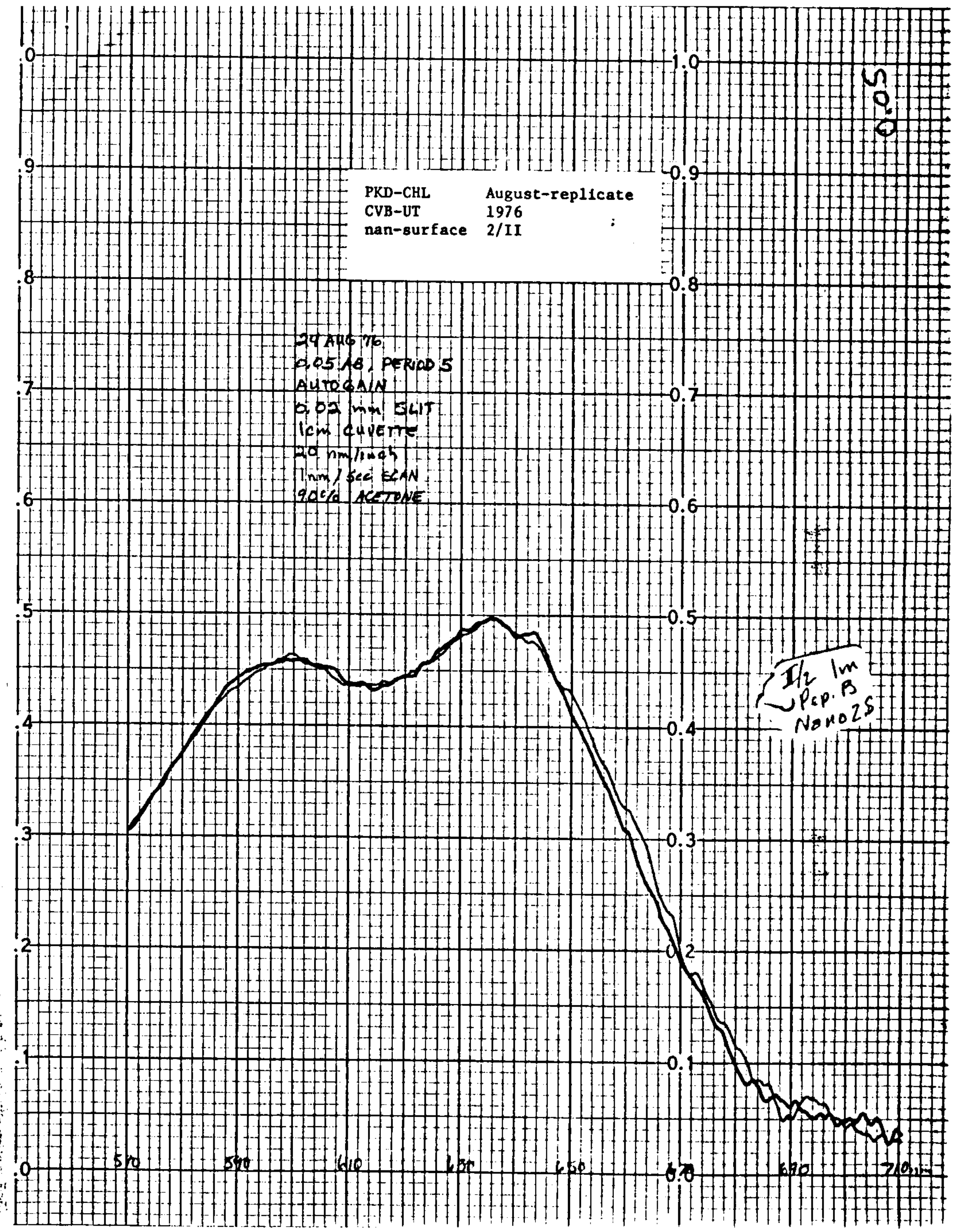

PFM-CHL August
CVB-UT 1976
fpl-surface 2/II
23 AUGUST 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
II/2 1m
Niter
4l
1.0
0.9
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0

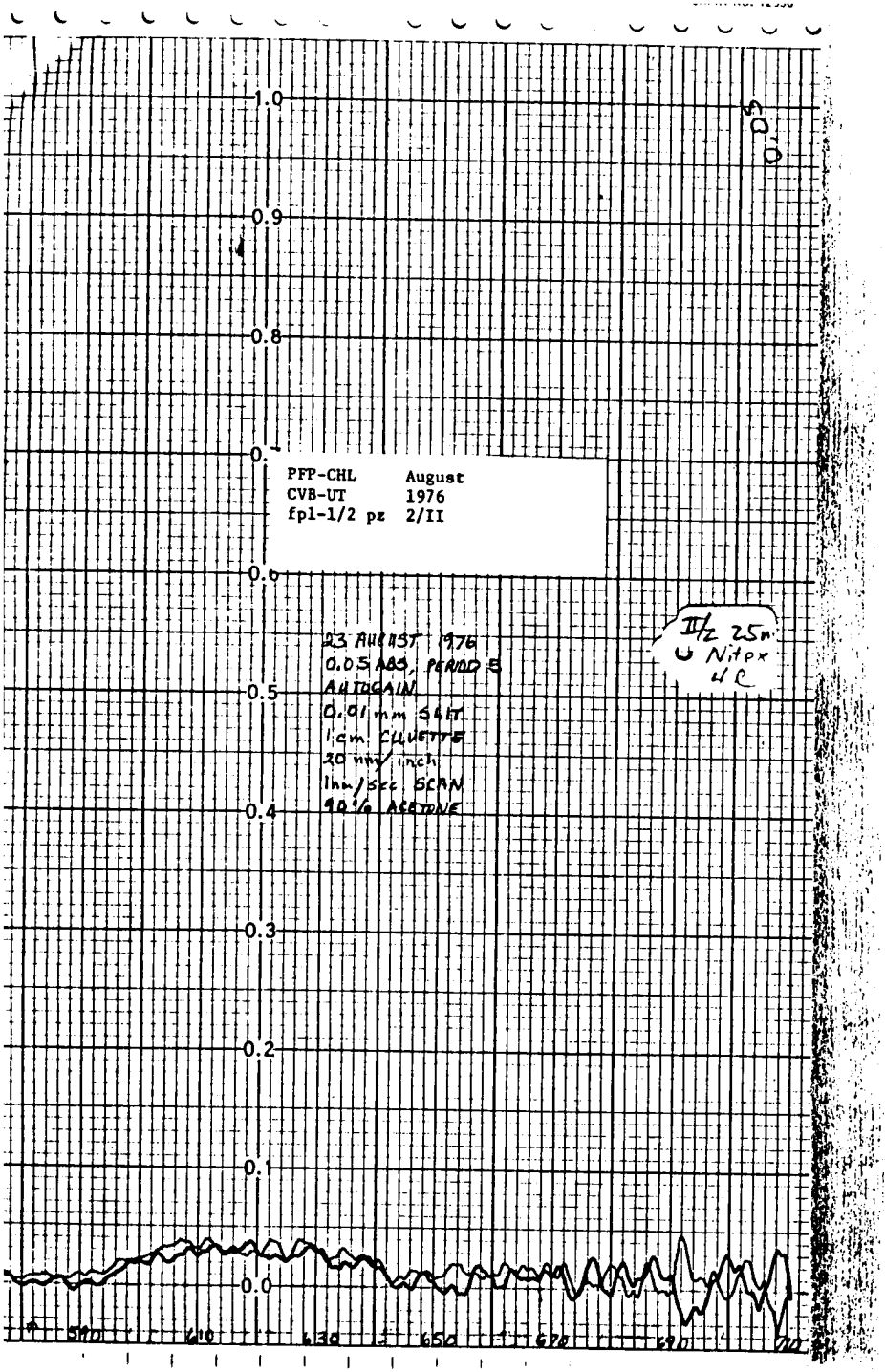

PKA-CHL August-replicate
CVB-UT 1976
fpl-surface 2/II
24 AUG 76
0.05 AD, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1m
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

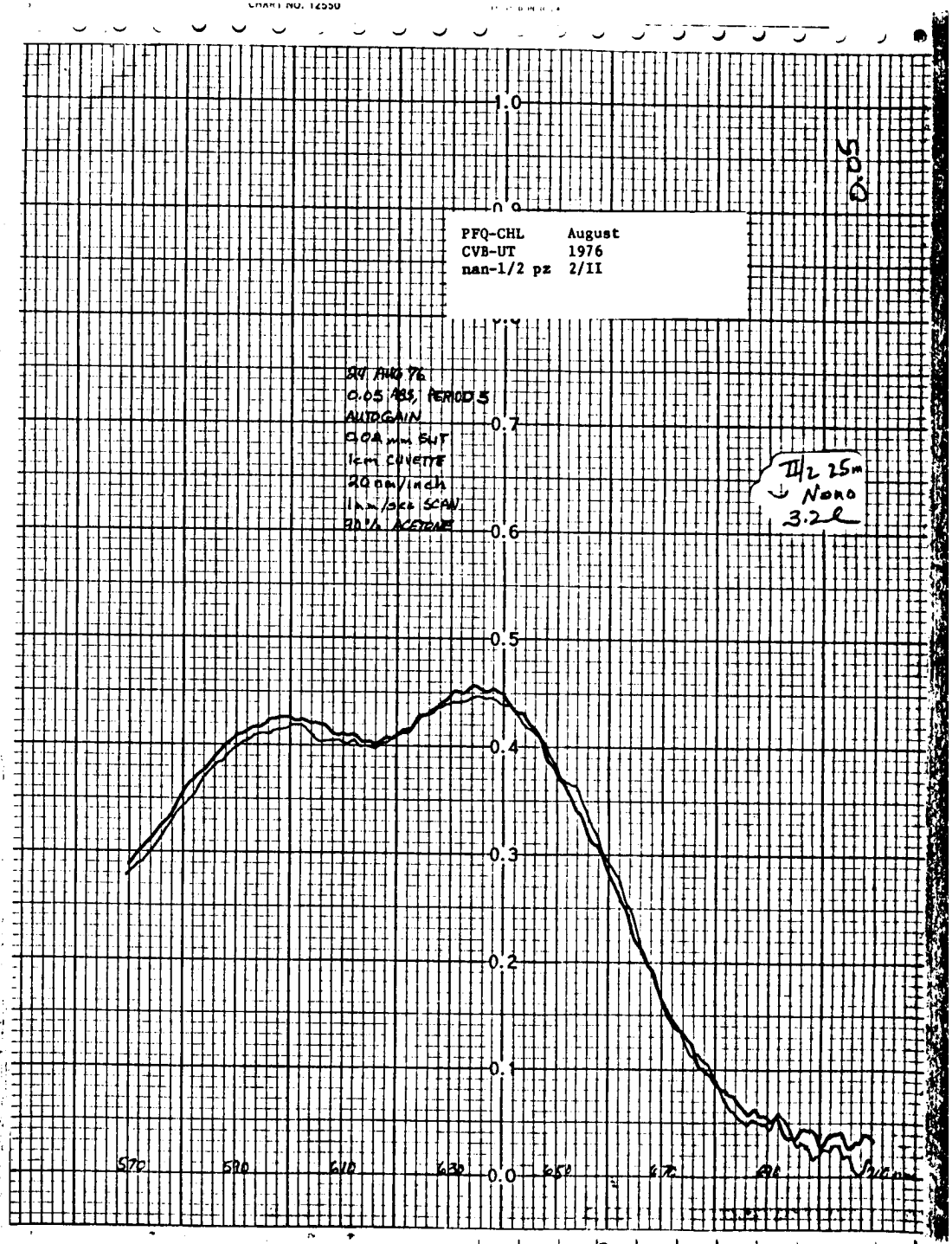

1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
PKB-CHL August-replicate.
CVB-UT 1976
fpl-surface 2/II
23 AUGUST 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
II/2 Im
RapB
Nitex
3 2

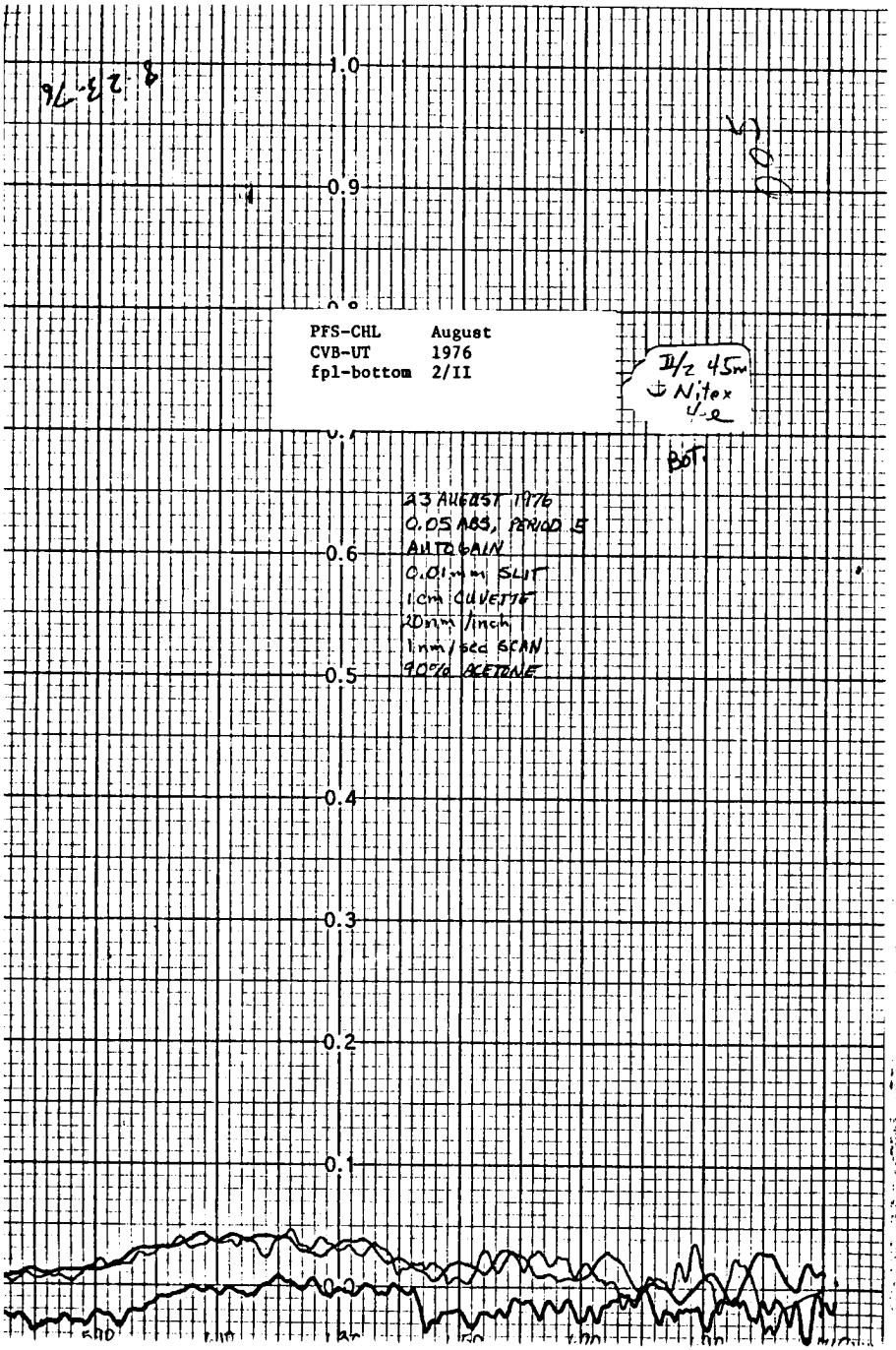

1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
PFN-CHL August
CVB-UT 1976
nan-surface 2/II
29 AUG 76
0.05 AB, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUBETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
II/2 Im
Nano
3 2

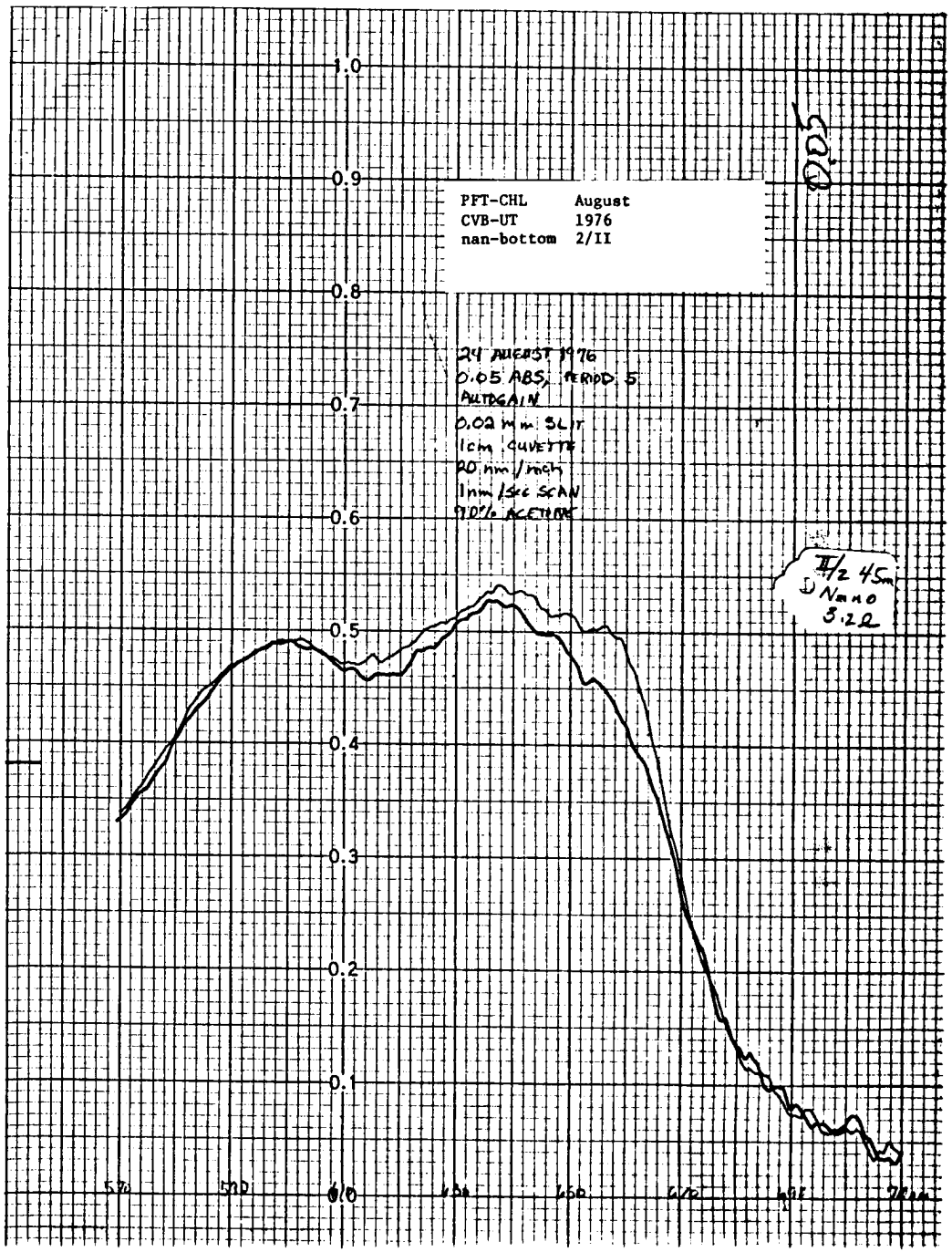

PKC-CHL August-replicate
CVB-UT 1976
nan-surface 2/II
24 AUGUST 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
7/II 1m
Nano Rep A
2.8 l
0.05
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.0
590
610
630
650
670
690
710 nm

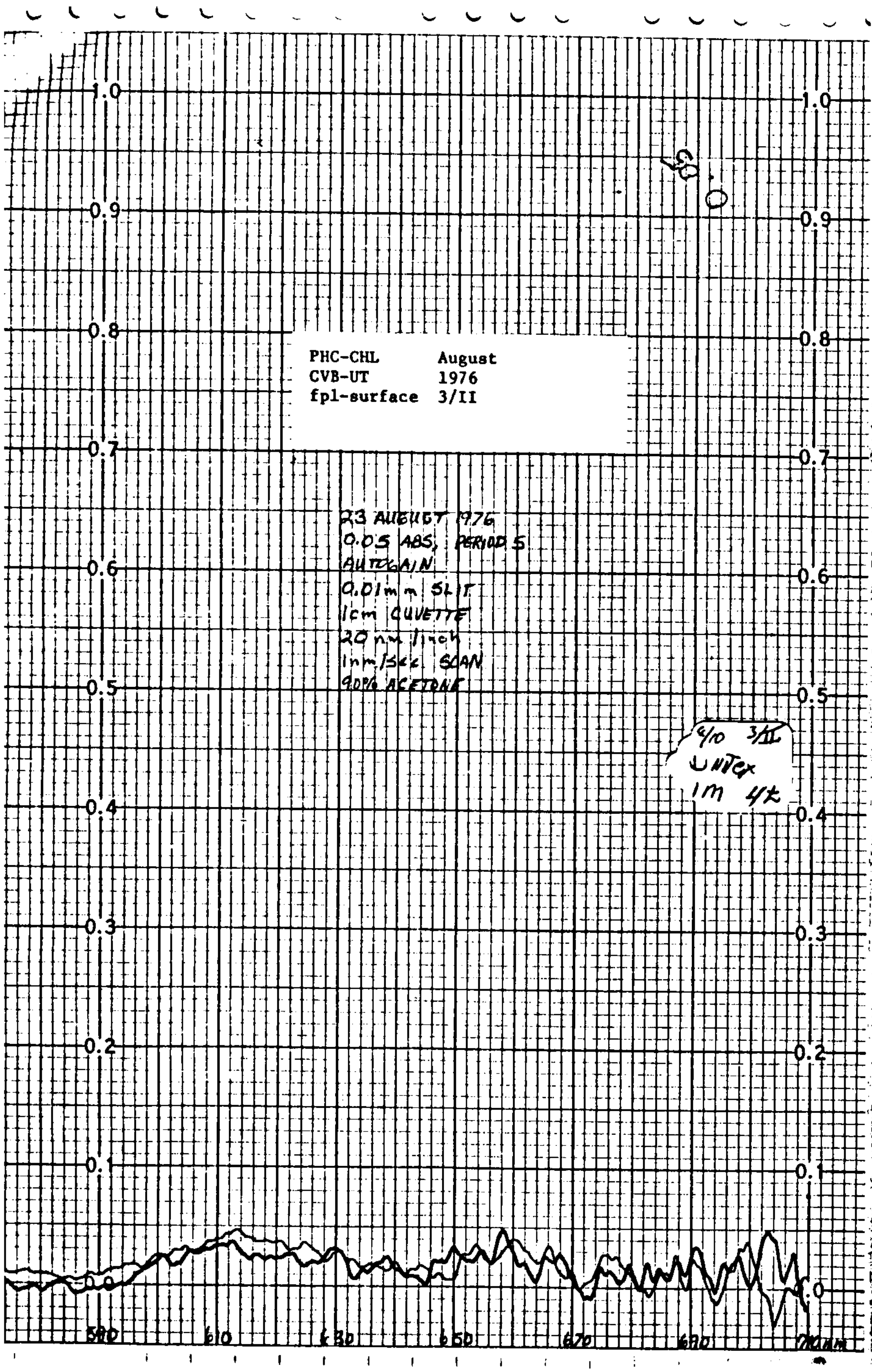

PKD-CHL August-replicate
CVB-UT 1976
nan-surface 2/II
24 AUG 76
0.05 AB, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
I/2 1m
Rep. B
Nano 2S
0.05
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710

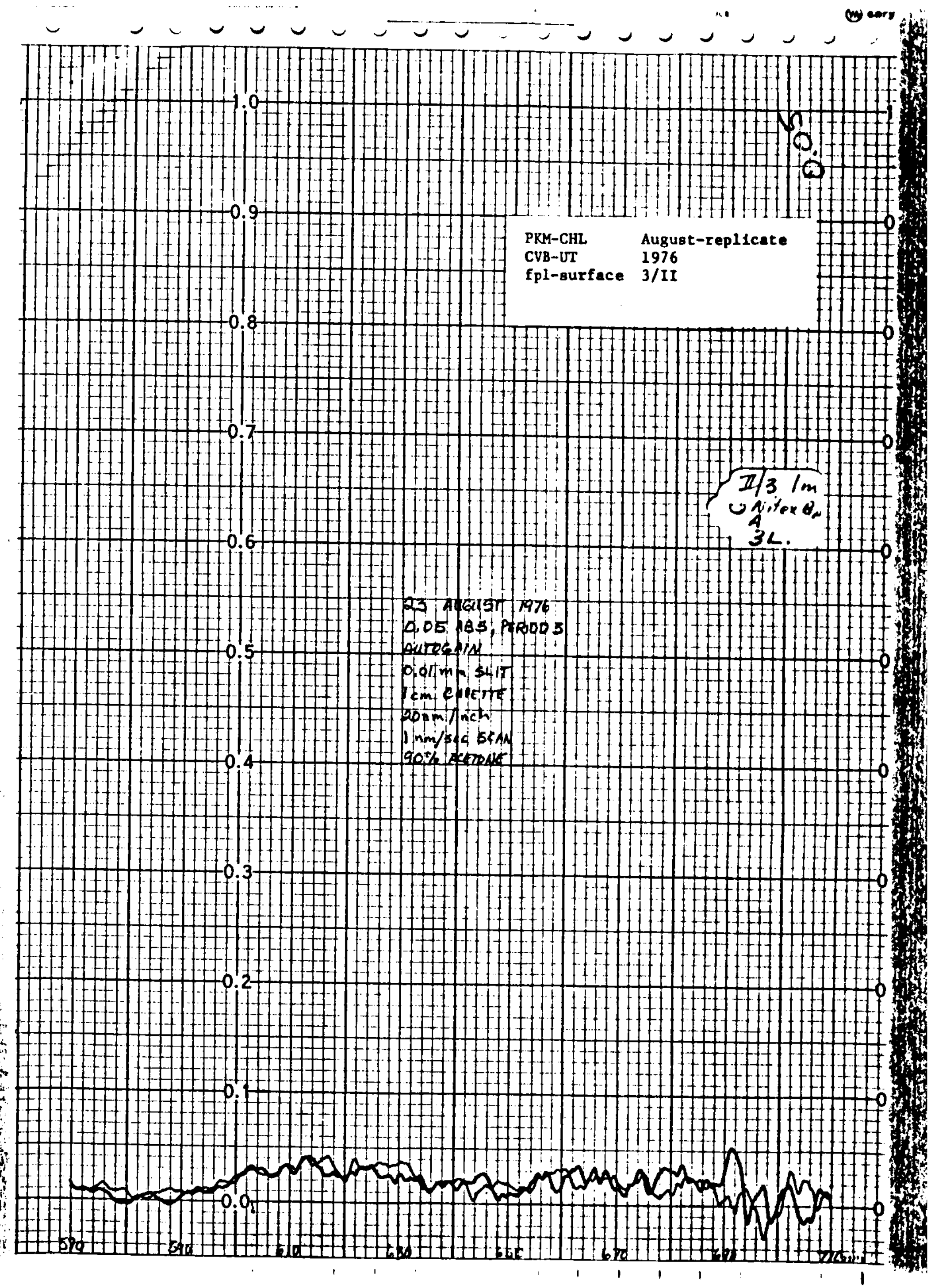

PFP-CHL August
CVB-UT 1976
fpl-1/2 pz 2/II
23 AUGUST 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 hm/sec SCAN
90% ACETONE
II/2 25m
Nitex
4 L
1.0
0.9
0.8
0.0
0.5
0.4
0.3
0.2
0.1
0.0
590
610
630
650
670
690

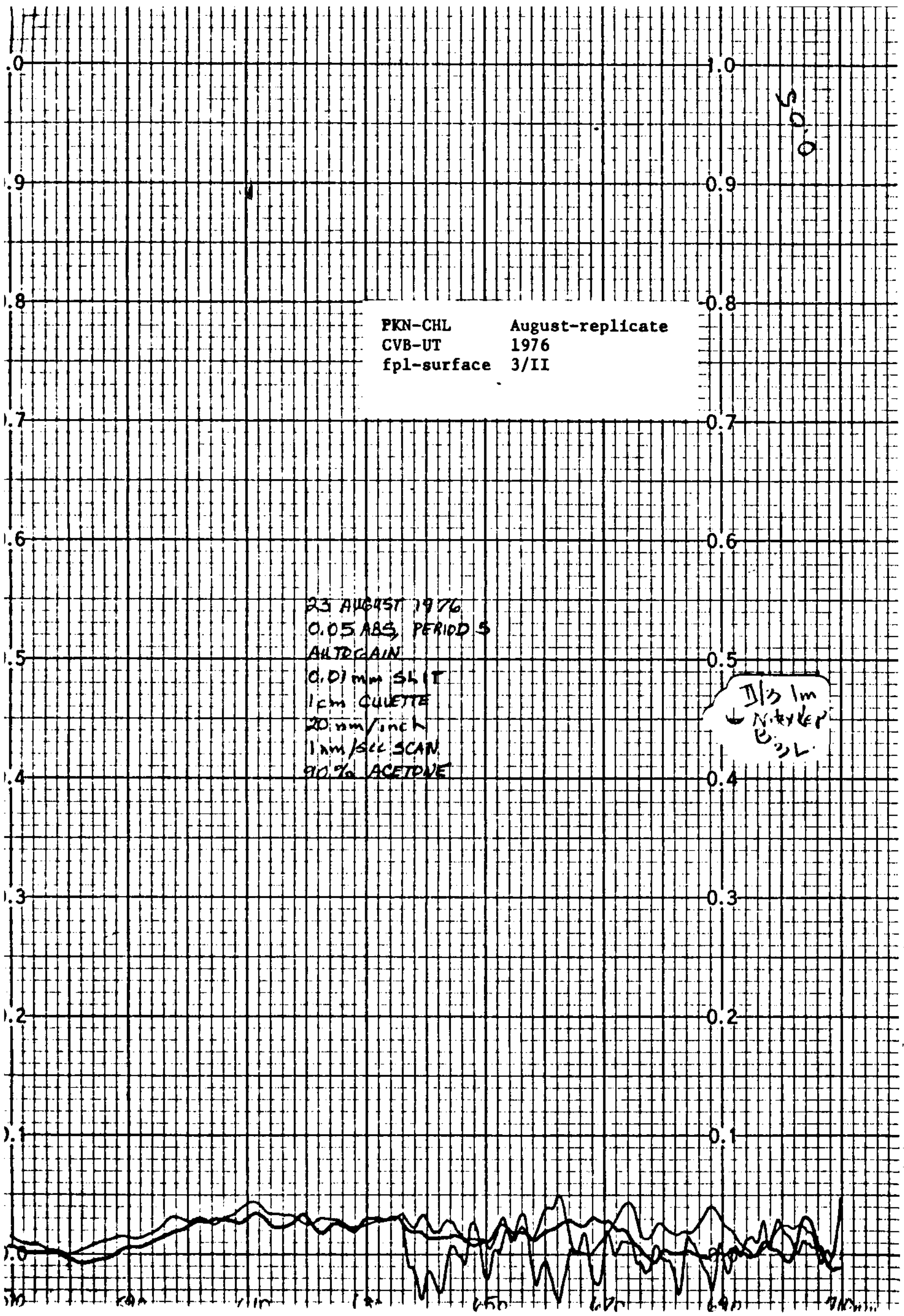

PFQ-CHL August
CVB-UT 1976
nan-1/2 pz 2/II
SKY AUG 76
0.05 ABS, PERIOD 5
AUTOGAIN
0.04 mm SLIT
1 cm CUVETTE
20 nm/inch
1 hm/sec SCAN
90% ACETONE
II/2 25m
Nitex
3.2 L
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650

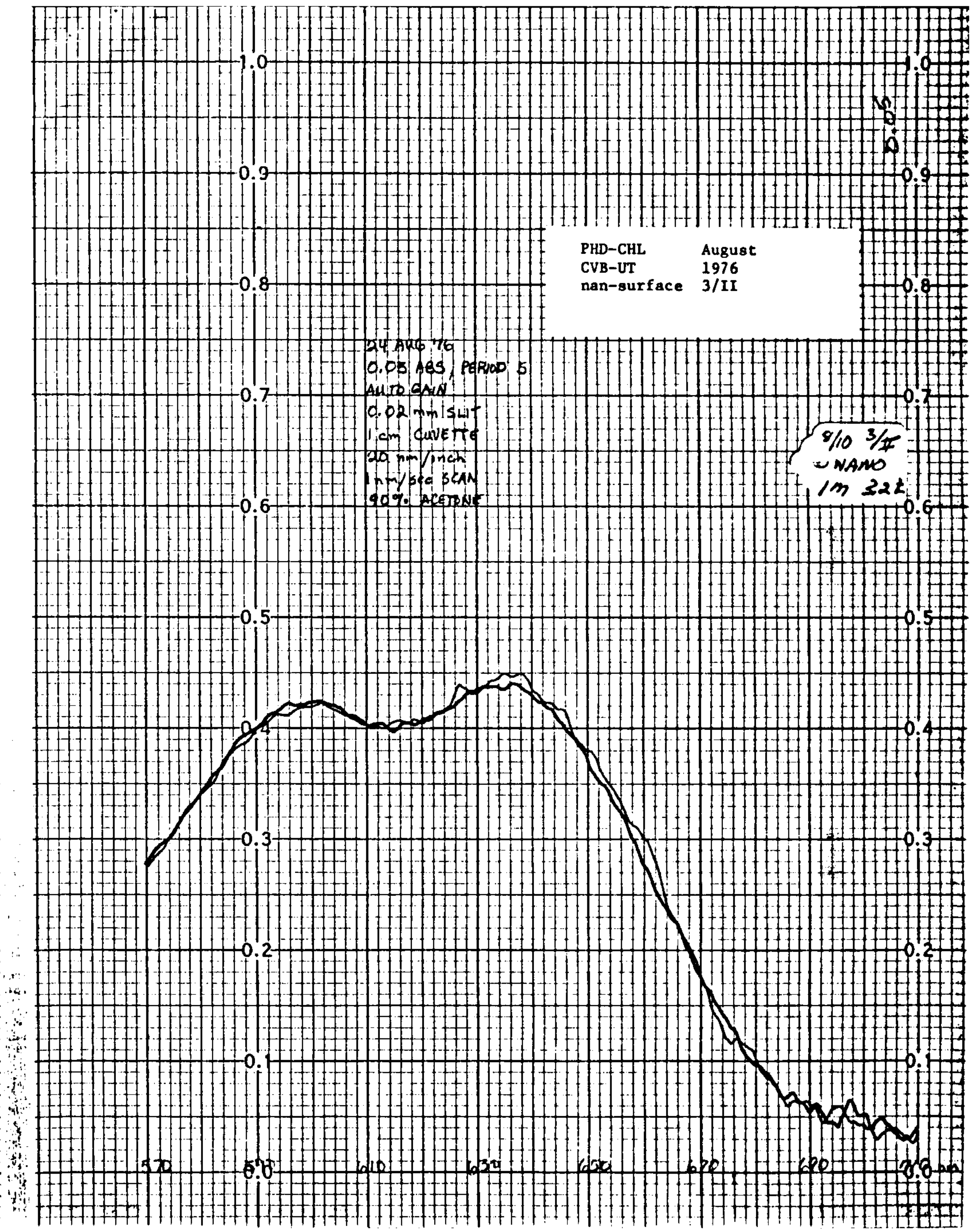

PFS-CHL August
CVB-UT 1976
fpl-bottom 2/II
23 AUGUST 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
BOT
1.0
0.9
0.6
0.5
0.4
0.3
0.2
0.1

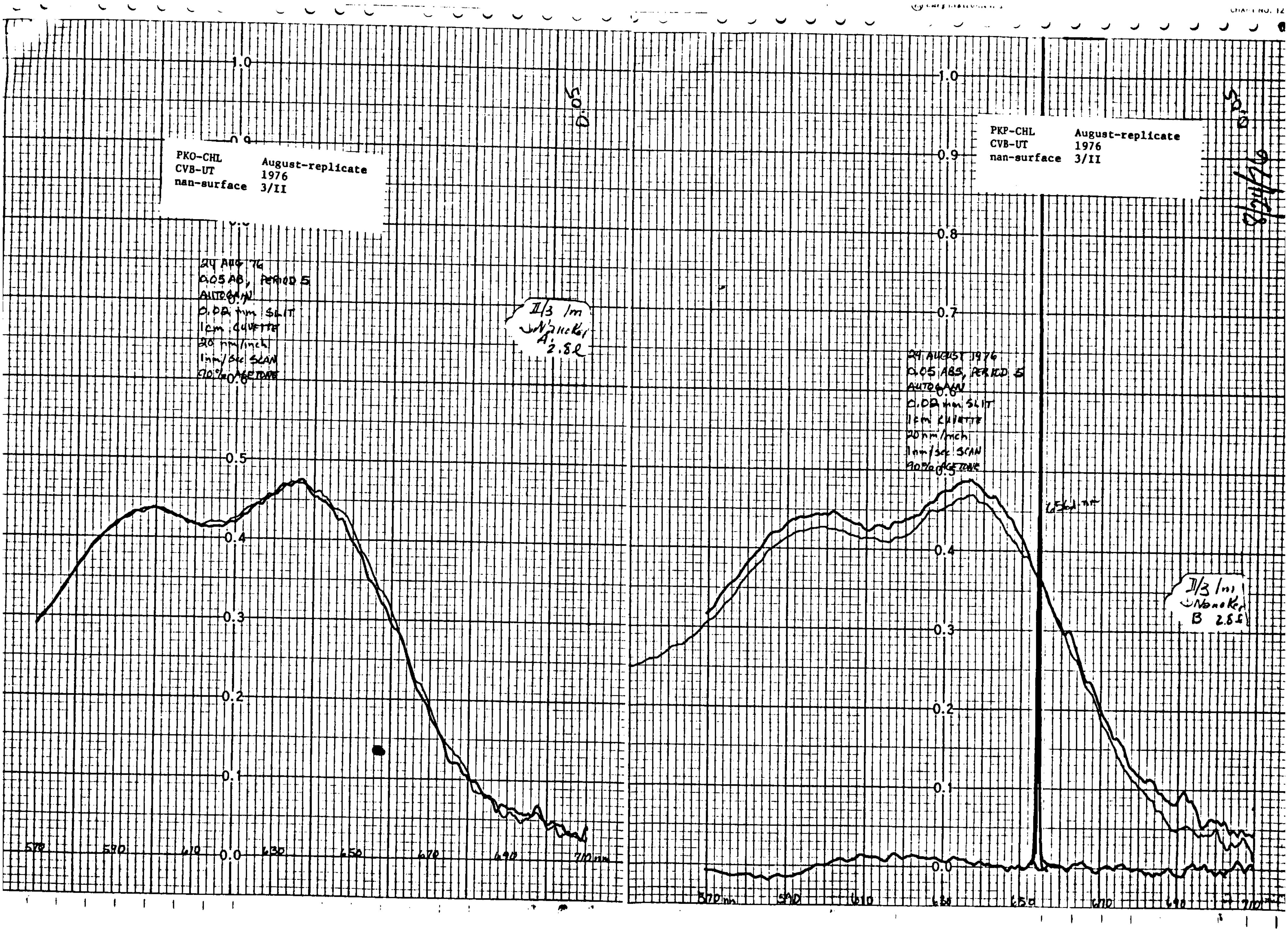

PFT-CHL August
CVB-UT 1976
nan-bottom 2/II
24 AUGUST 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

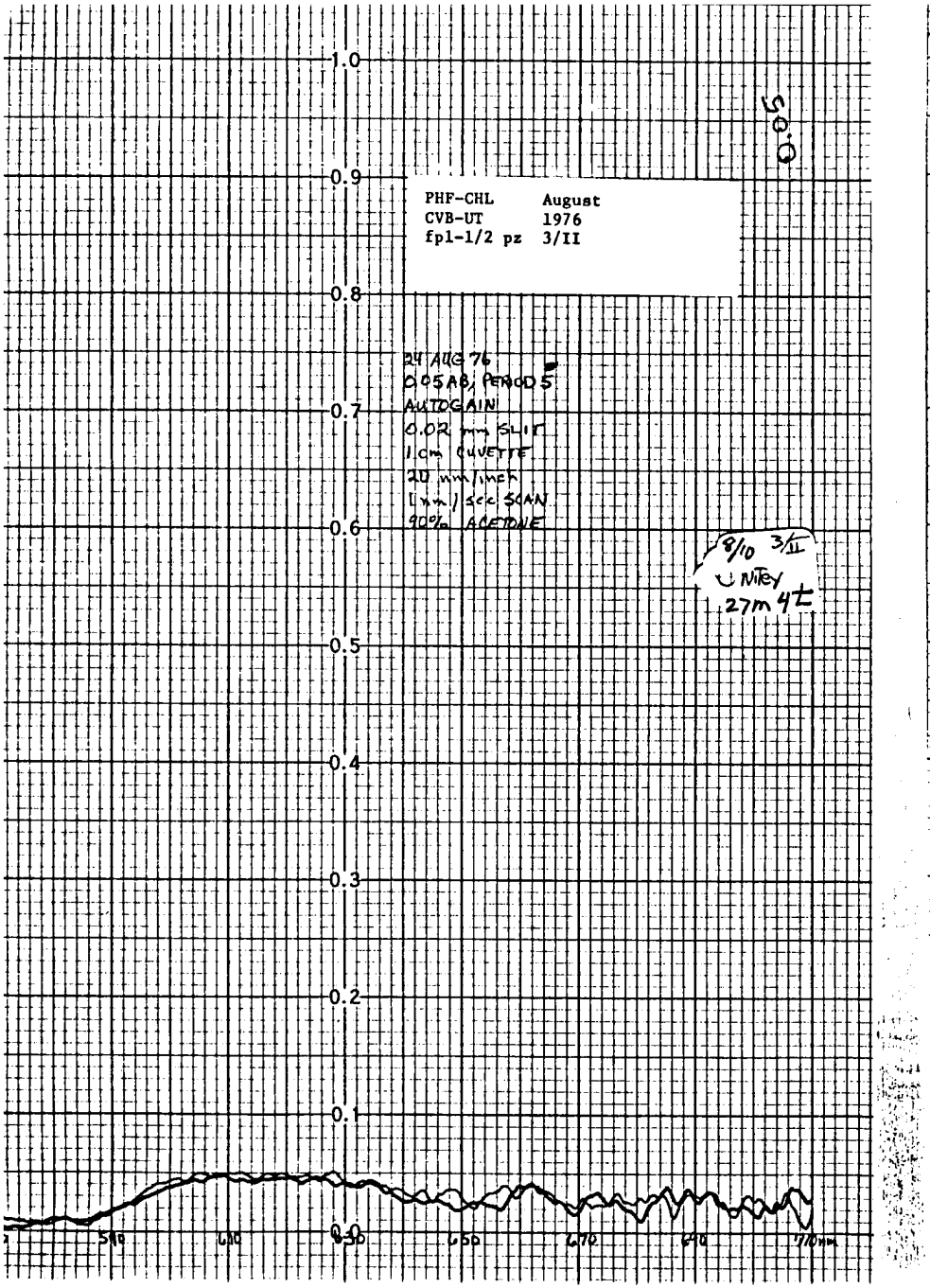

PHC-CHL August
CVB-UT 1976
fpl-surface 3/II
23 AUGUST 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01mm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
590
610
630
650
670
690

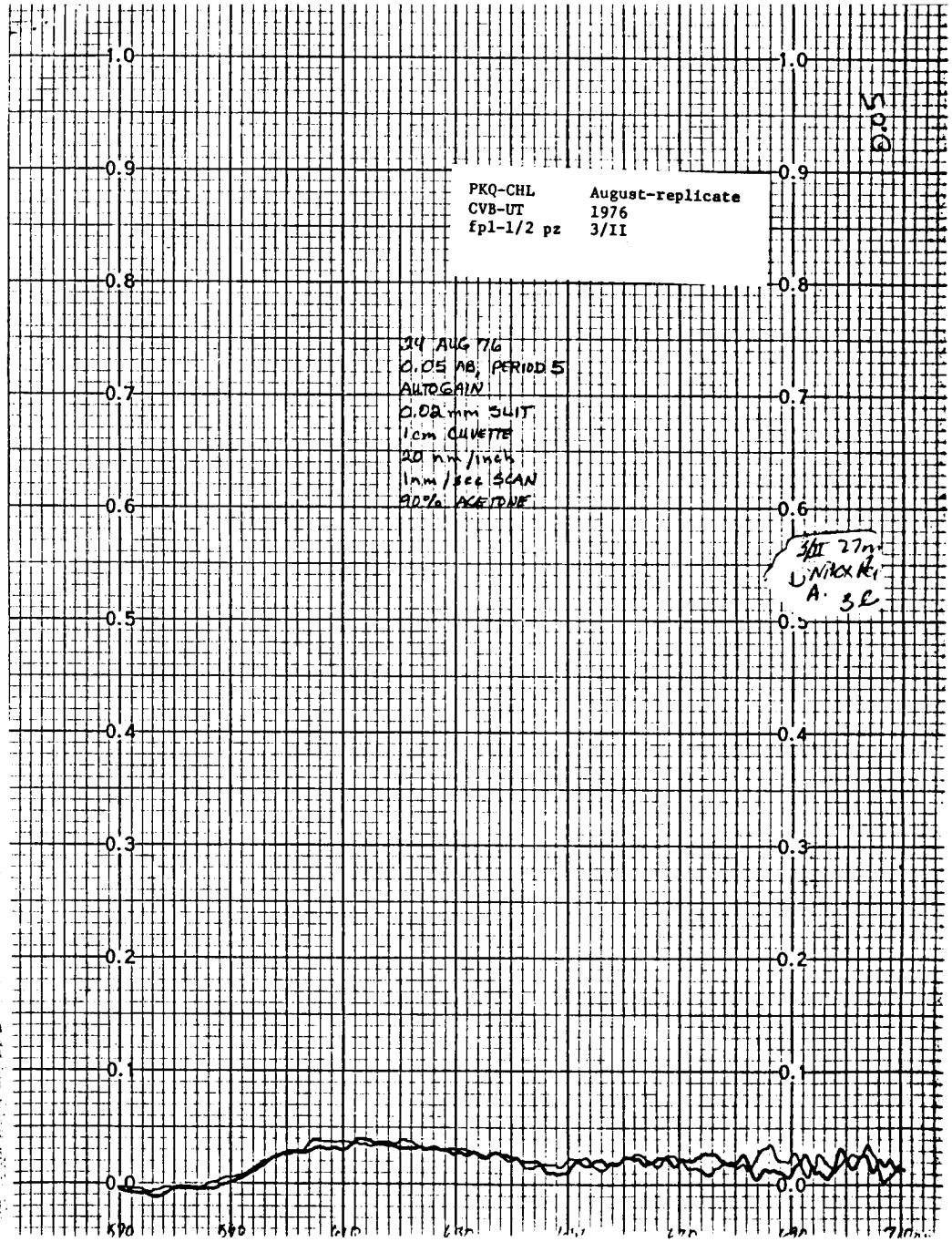

PKM-CHL August-replicate
CVB-UT 1976
fpl-surface 3/II
23 AUGUST 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01mm SLIT
1cm CUVETTE
20nm/inch
1nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
610
630
670

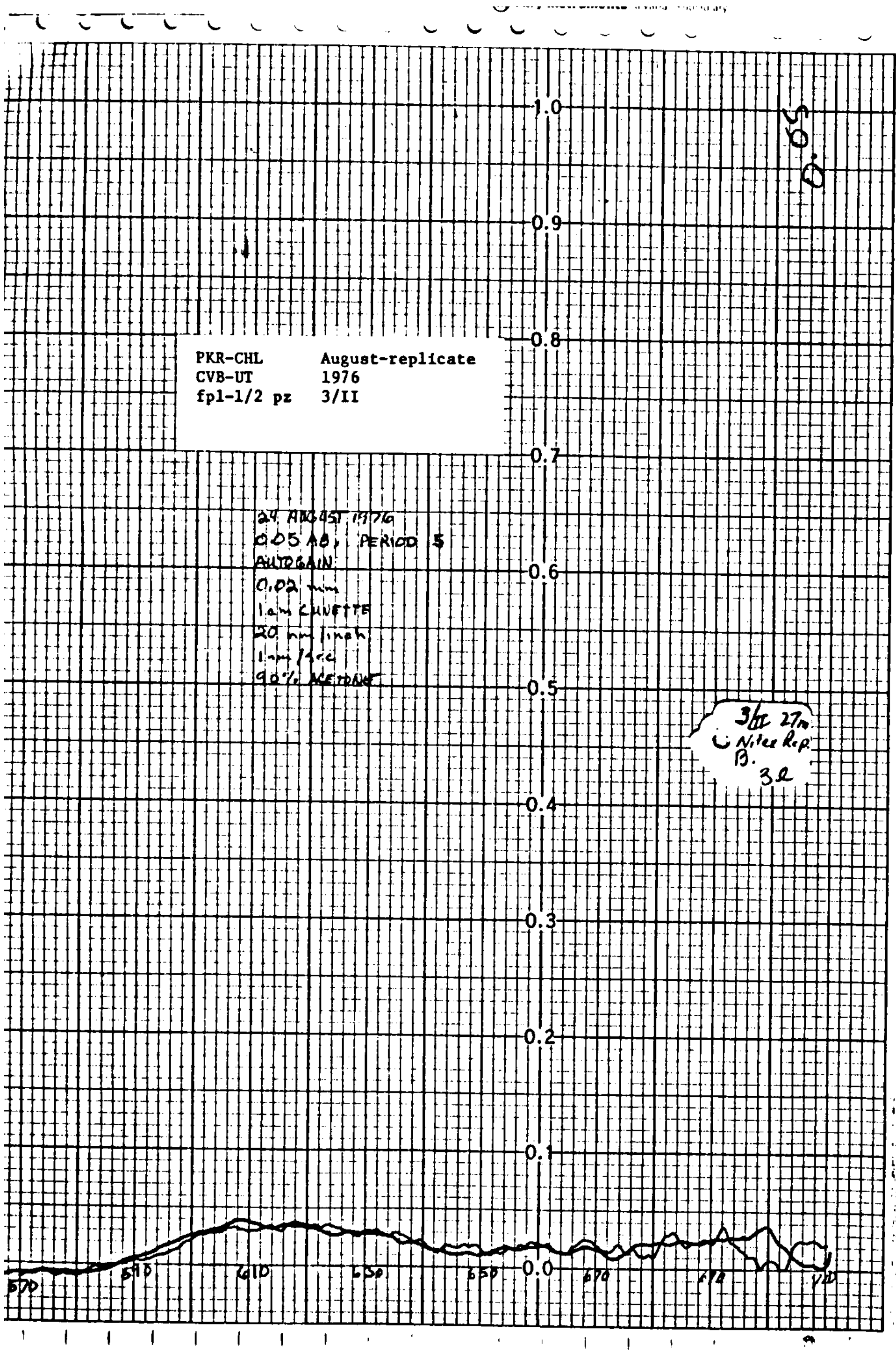

PKN-CHL August-replicate
CVB-UT 1976
fpl-surface 3/II
23 AUGUST 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.01 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE

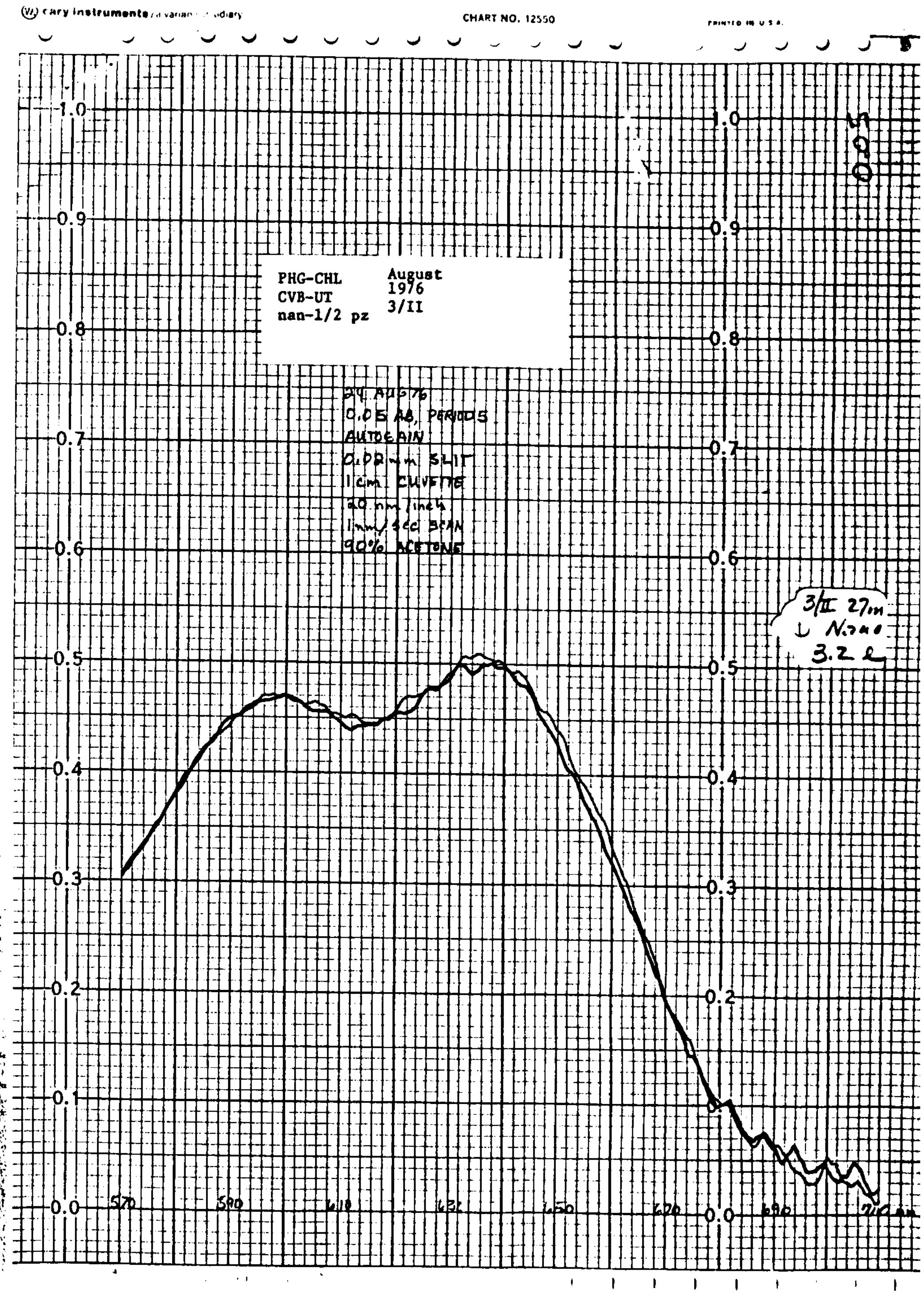

PHD-CHL August
CVB-UT 1976
nan-surface 3/II
24 AUG '76
0.05 ABS, PERIOD 5
AUTO GAIN
0.02 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE

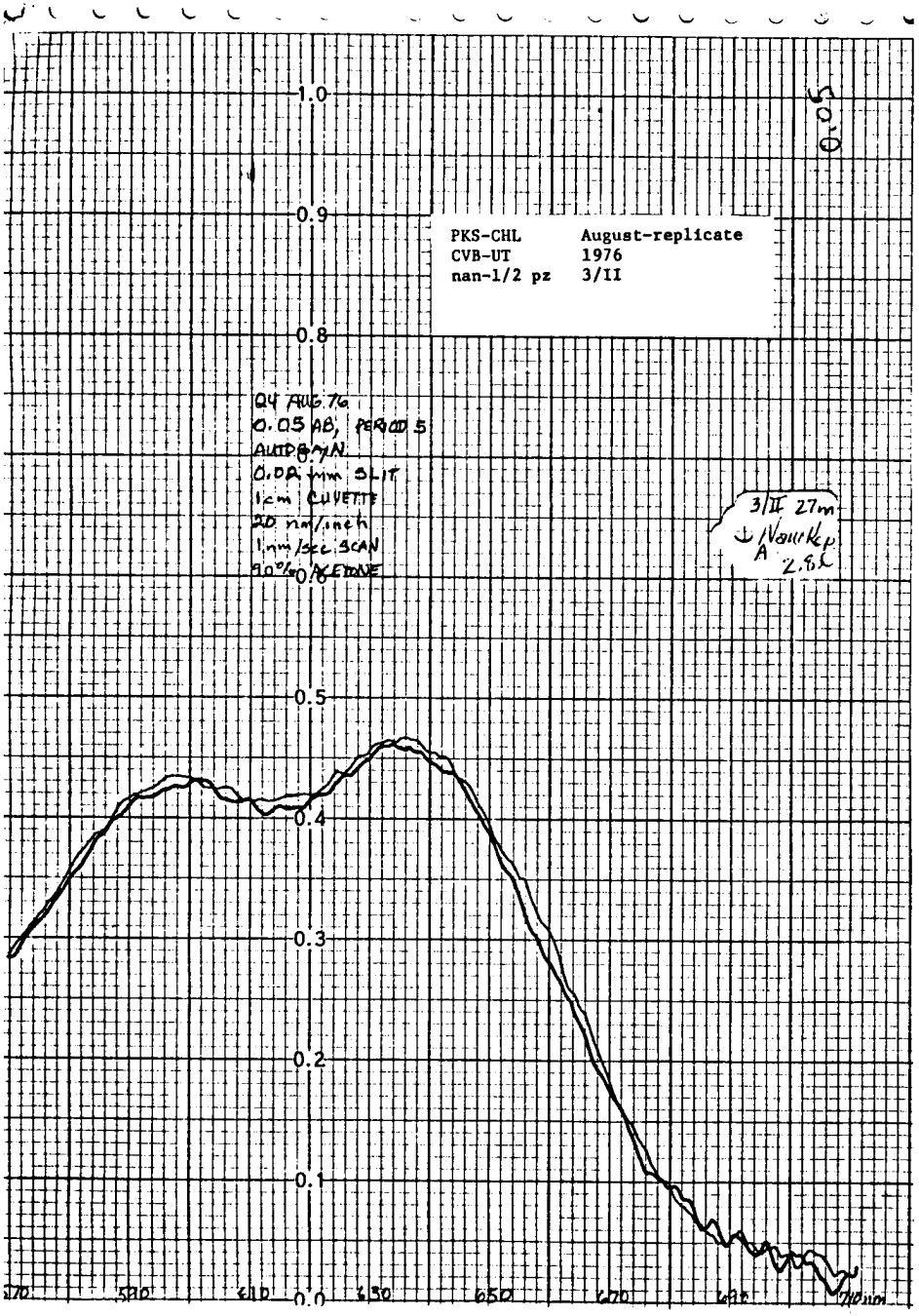

PKO-CHL
CVB-UT
nan-surface
August-replicate
1976
3/II
24 AUG 76
0.05 AB, PERIOD 5
AUTOGAIN
0.02 nm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
0.05
PKP-CHL
CVB-UT
nan-surface
August-replicate
1976
3/II
24 AUGUST 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 nm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
656.1 nm
0.05
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 nm


PHF-CHL August
CVB-UT 1976
fp1-1/2 pz 3/II
24 AUG 76
0.05 AB, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
8/10 3/II
UNITY
.27m 4L
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
610
630
650
670
690
710nm

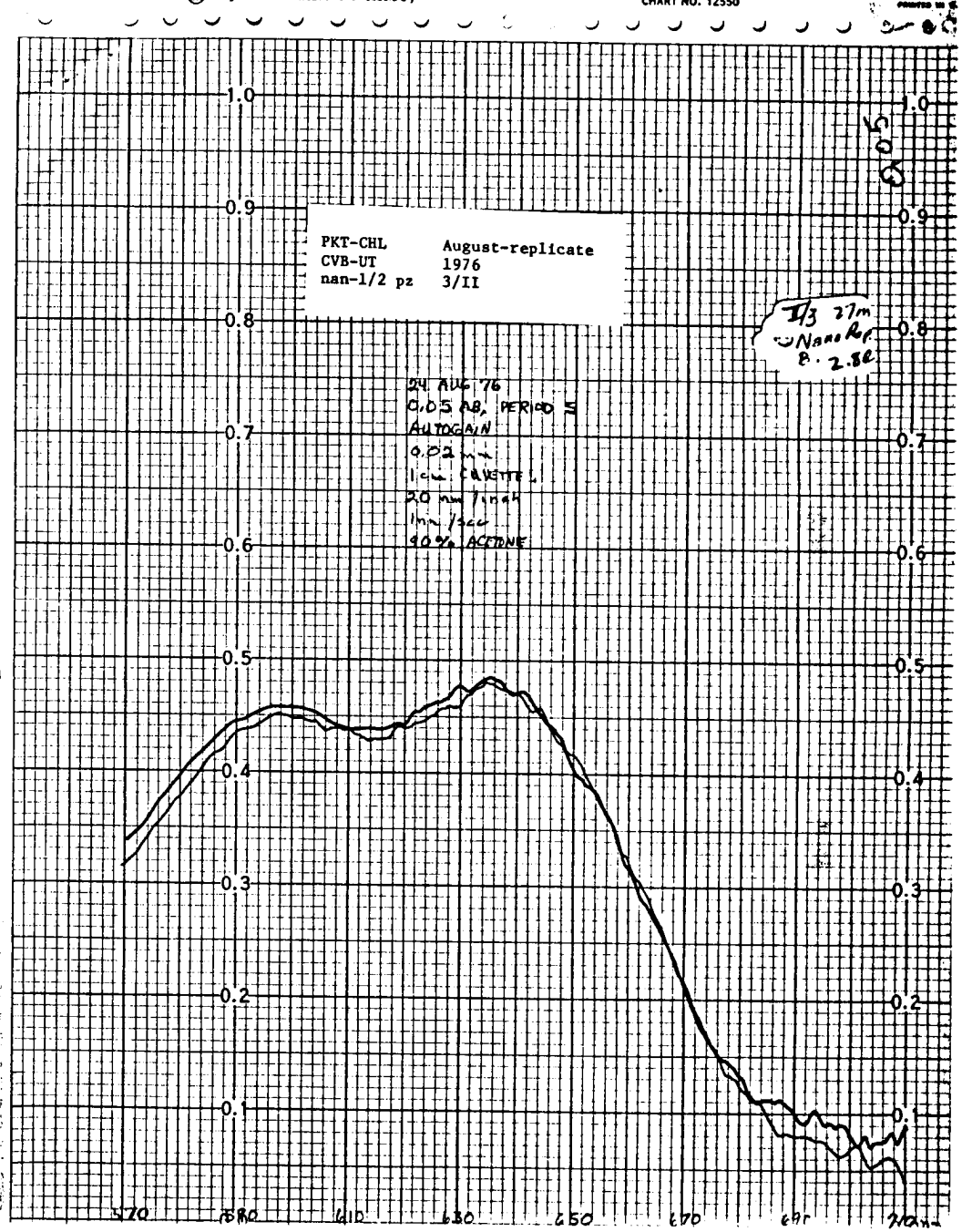

PKQ-CHL August-replicate
CVB-UT 1976
fp1-1/2 pz 3/II
24 AUG 76
0.05 AB, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1 cm CUVETTE
20 nm/inch
1 nm/sec SCAN
90% ACETONE
3/II .27m
UNITY
A. 3L
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0

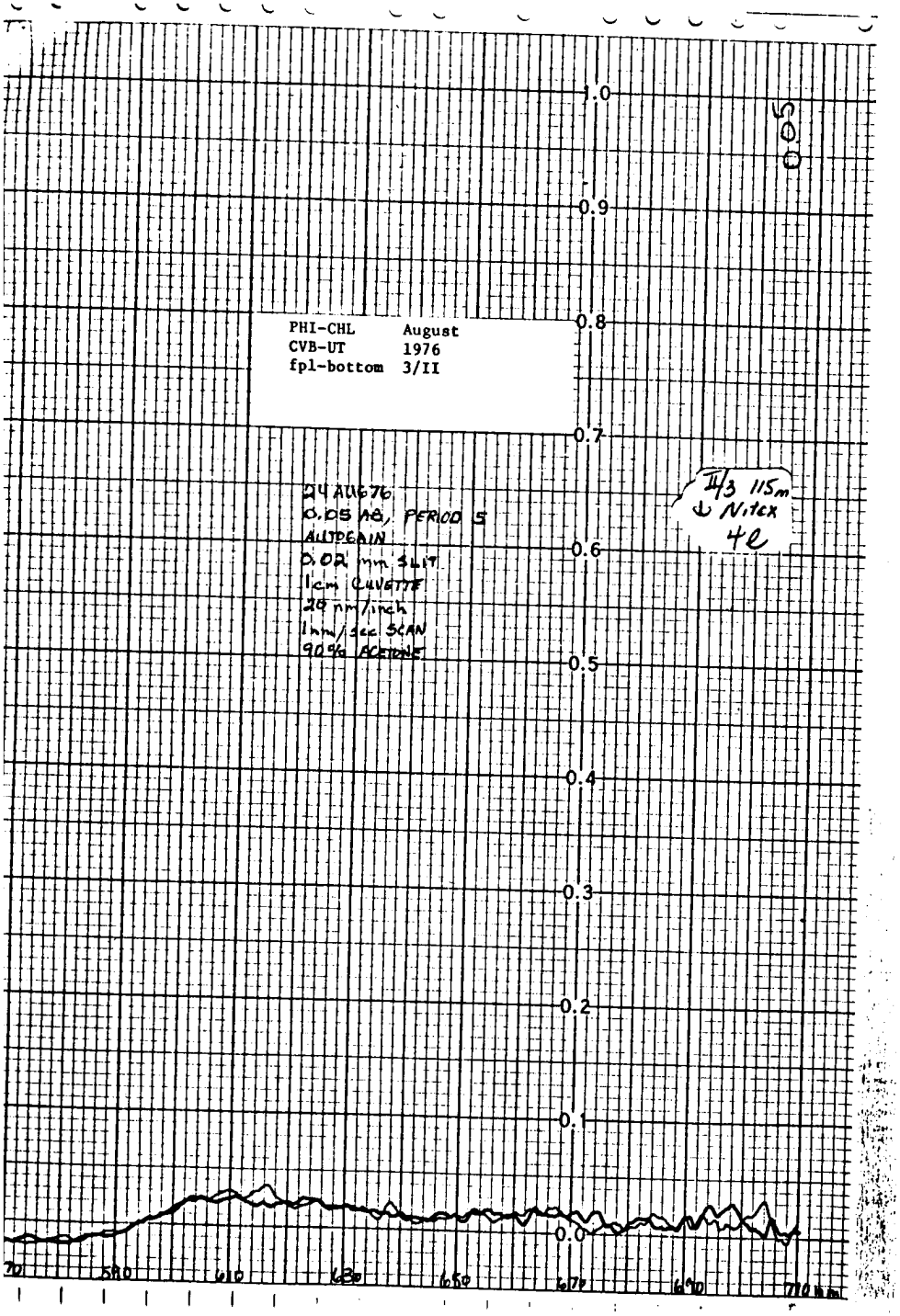

PKR-CHL
August-replicate
CVB-UT
1976
fp1-1/2 pz
3/II
24 AUGUST 1976
0.05 AB, PERIOD 5
AUTOGAIN
0.02 mm
1cm CUVETTE
20 nm/inch
1nm/sec
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
710

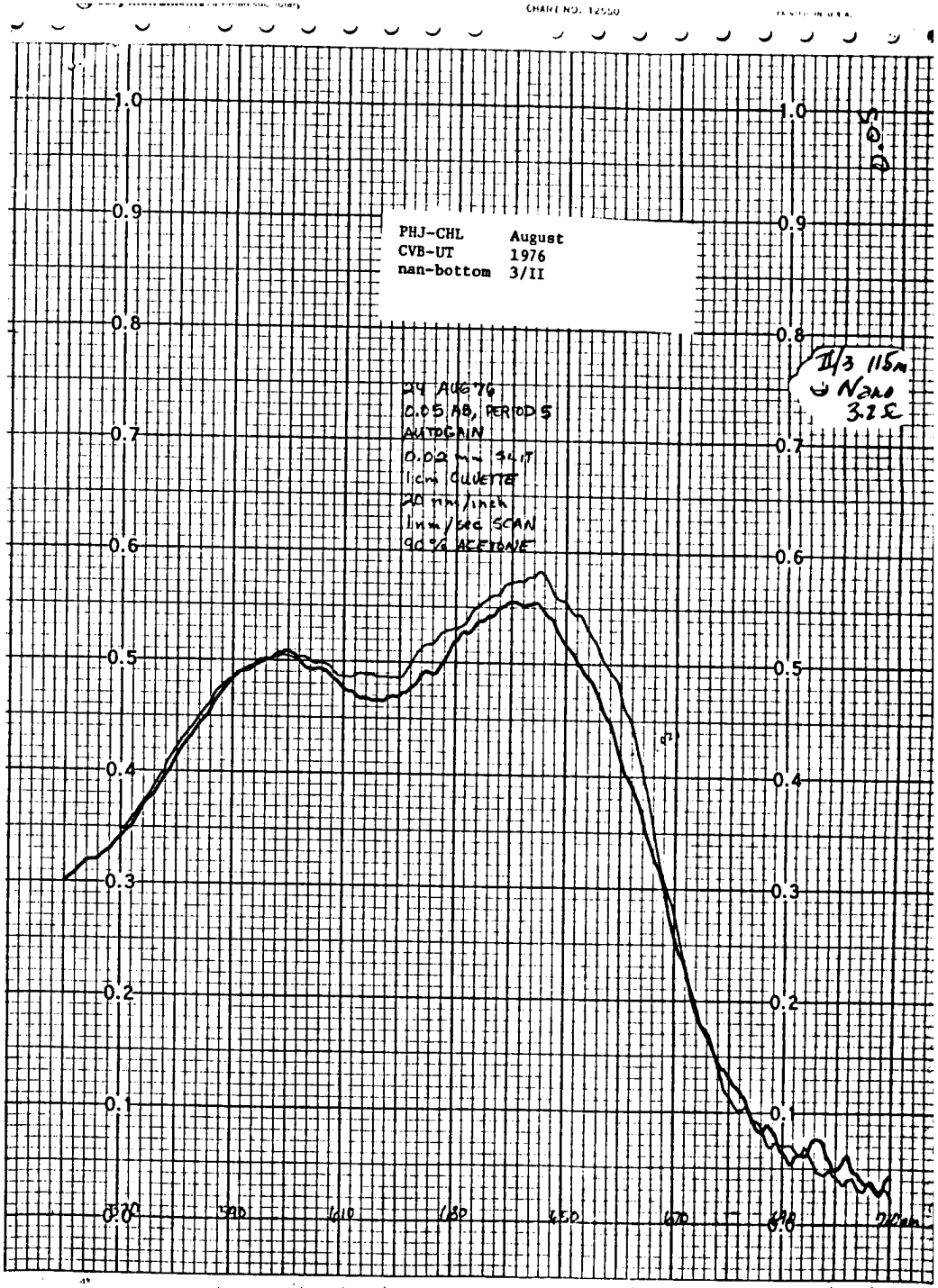

cary instruments
CHART NO. 12550
PHG-CHL
August
1976
CVB-UT
3/II
nan-1/2 pz
24 AUG 76
0.05 AB, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
650
690
710 nm

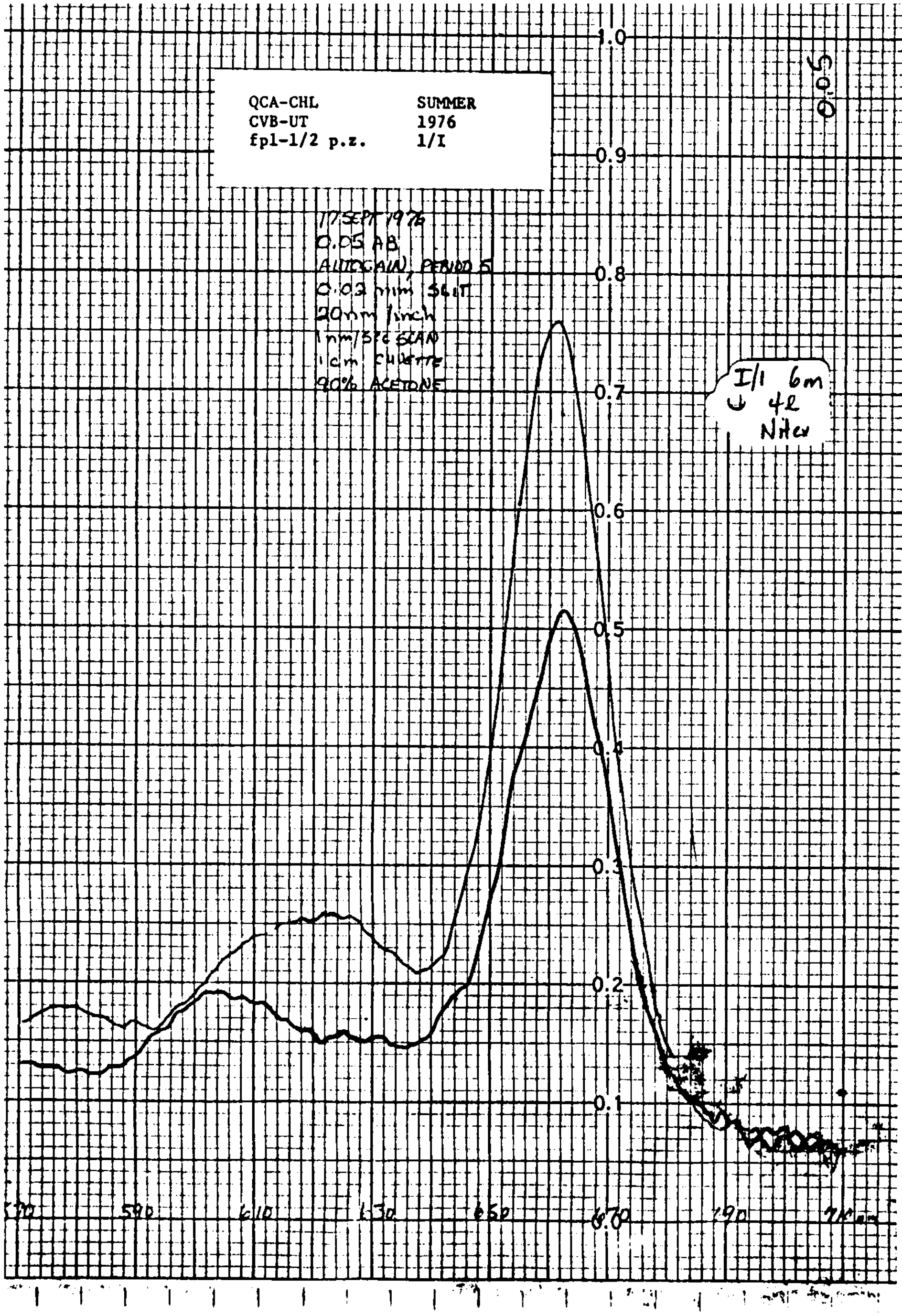


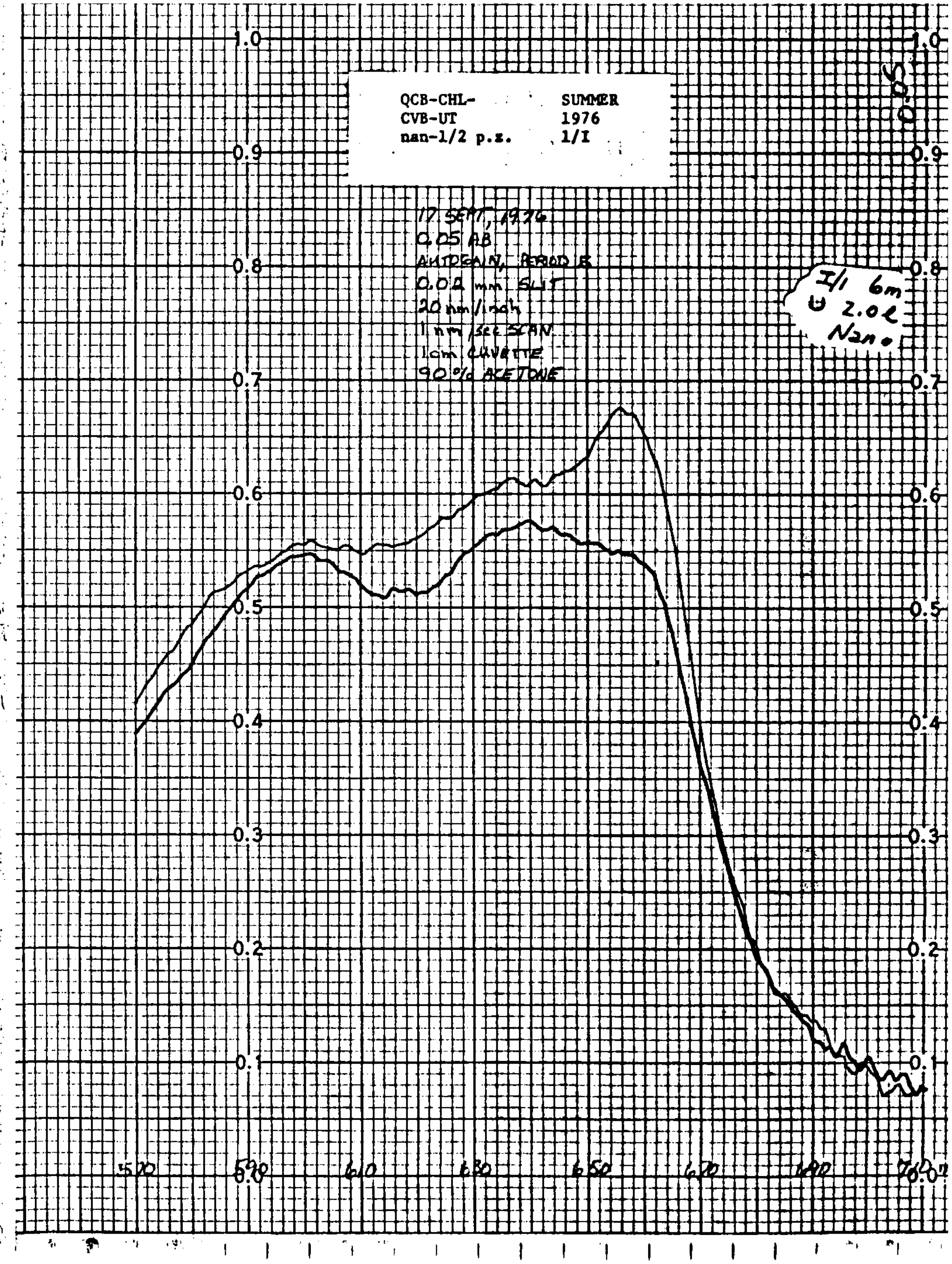
308 cary instruments/a varian subsidiary CHART NO. 12550

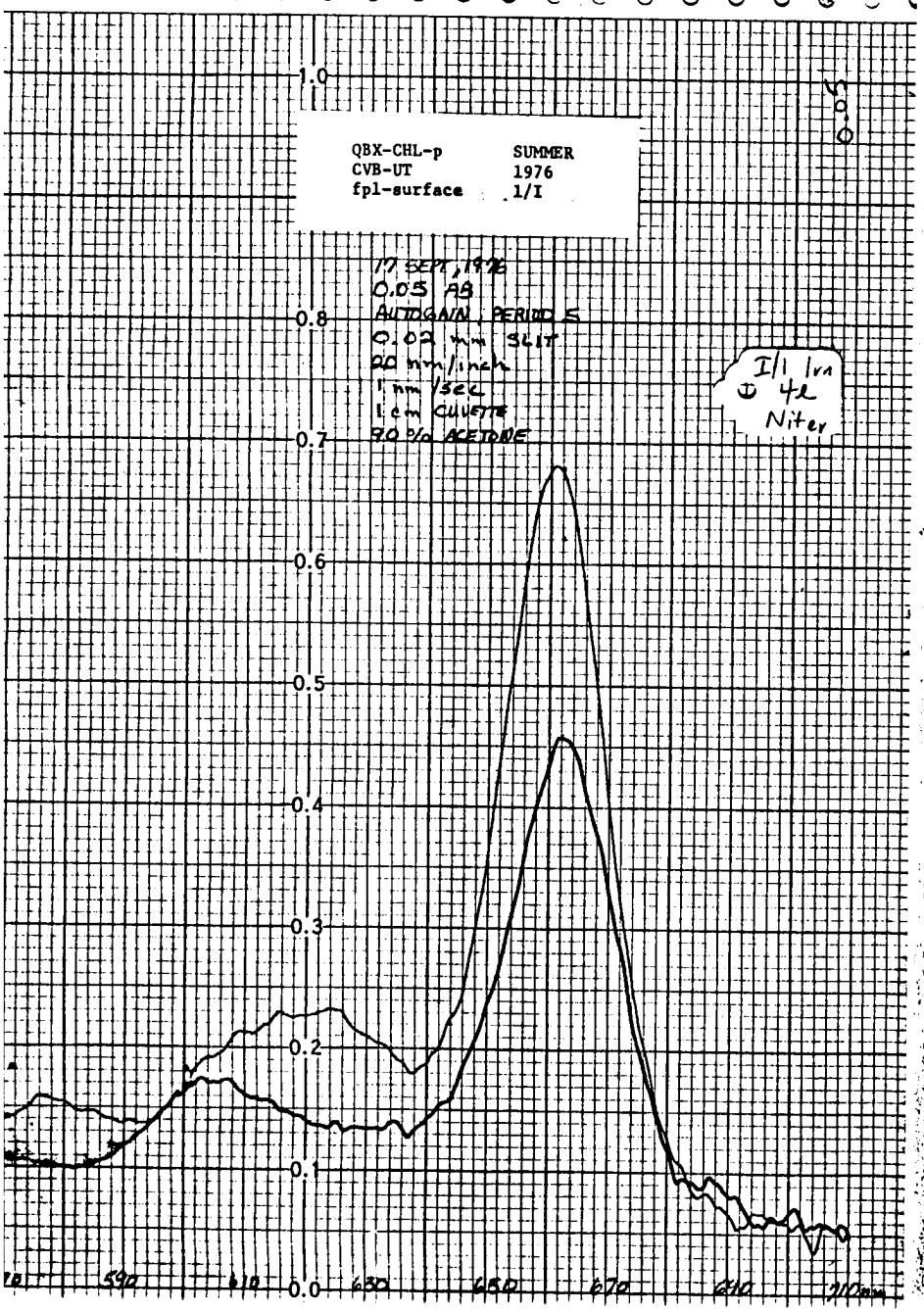


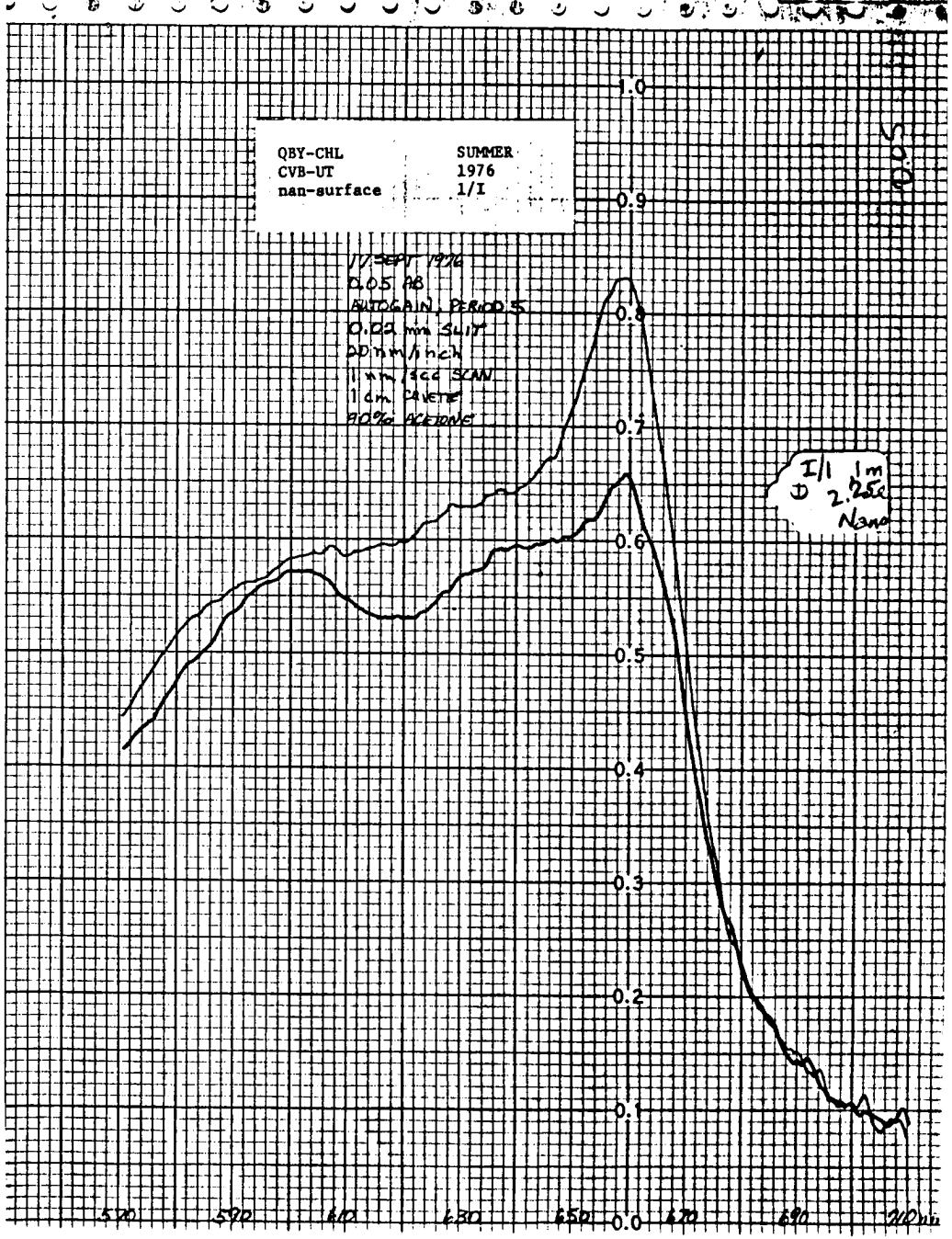

PHI-CHL August
CVB-UT 1976
fpl-bottom 3/II
24 AUG 76
0.05 AB, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
II/3 115m
↓ Nitex
4ℓ
505
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
700
590
610
630
650
670
690
710 nm

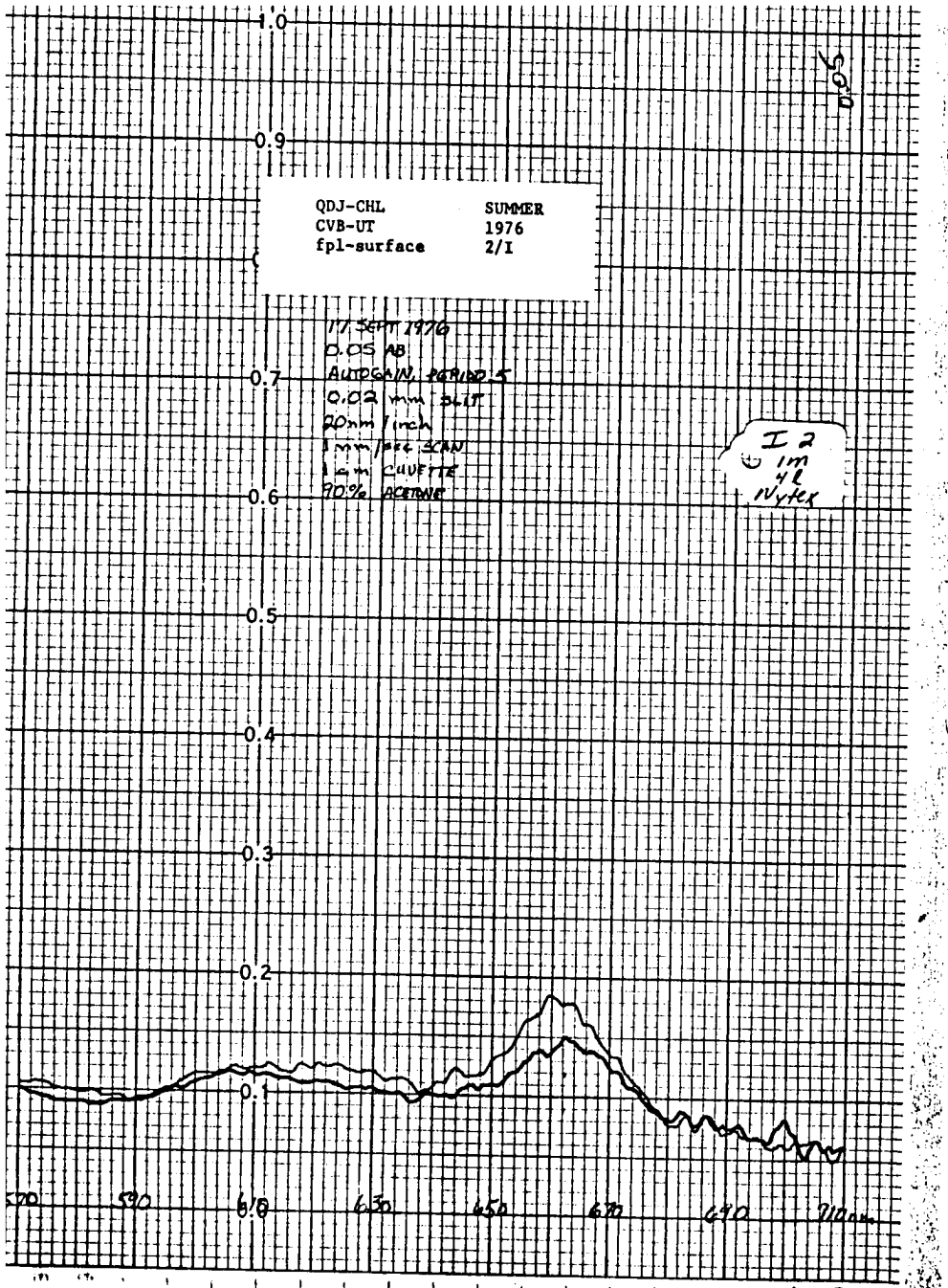

PHJ-CHL August
CVB-UT 1976
nan-bottom 3/II
24 AUG 76
0.05 AB, PERIOD 5
AUTOGAIN
0.02 mm SLIT
1cm CUVETTE
20 nm/inch
1nm/sec SCAN
90% ACETONE
II/3 115m
↓ Nitex
3.2ℓ
505
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
610
630
650
670
690
710 nm

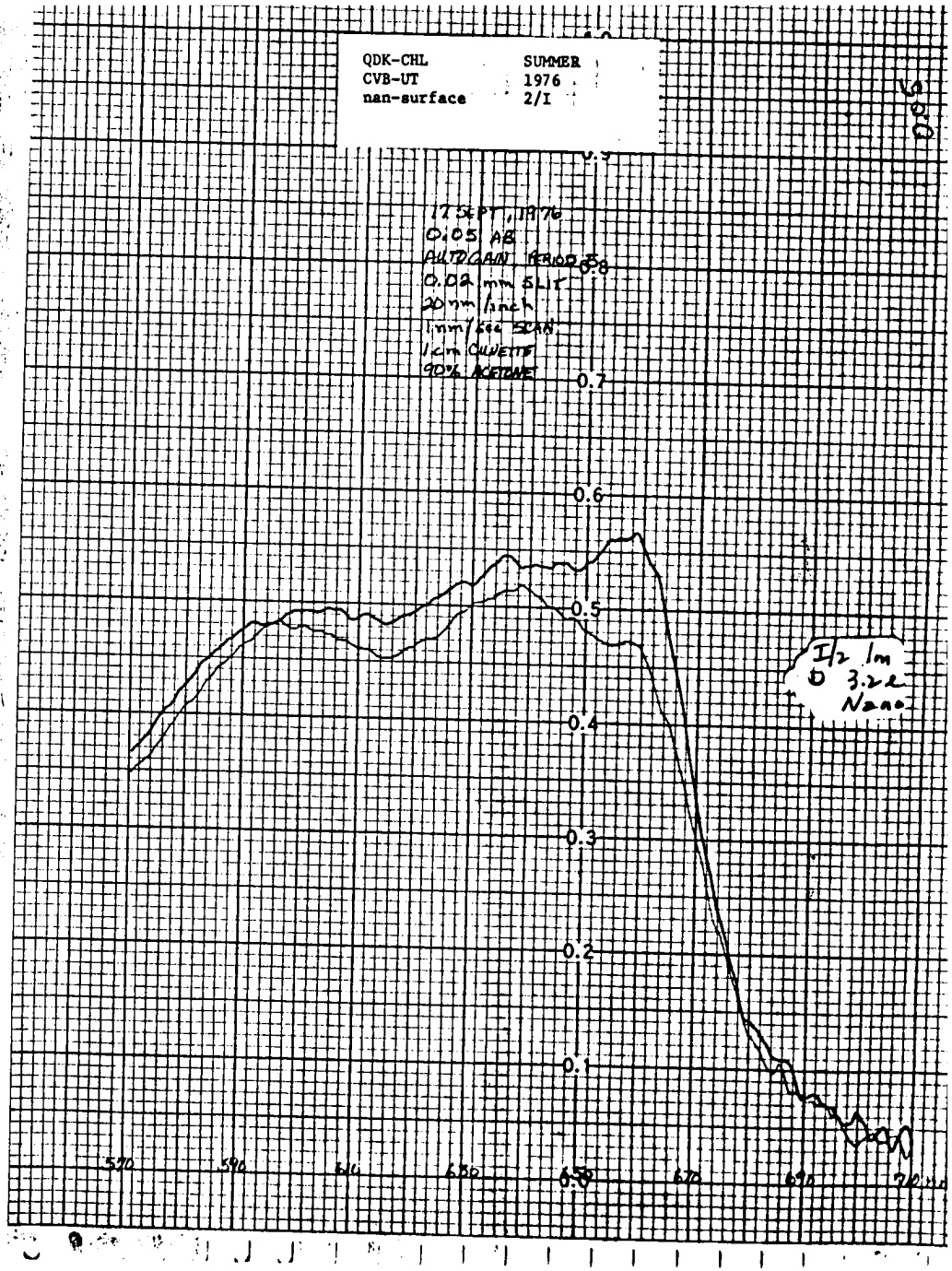

QCA-CHL SUMMER
CVB-UT 1976
fpl-1/2 p.z. 1/I
17 SEPT 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE
I/1 6m
↓ 4l
Niter
0.05
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710 nm

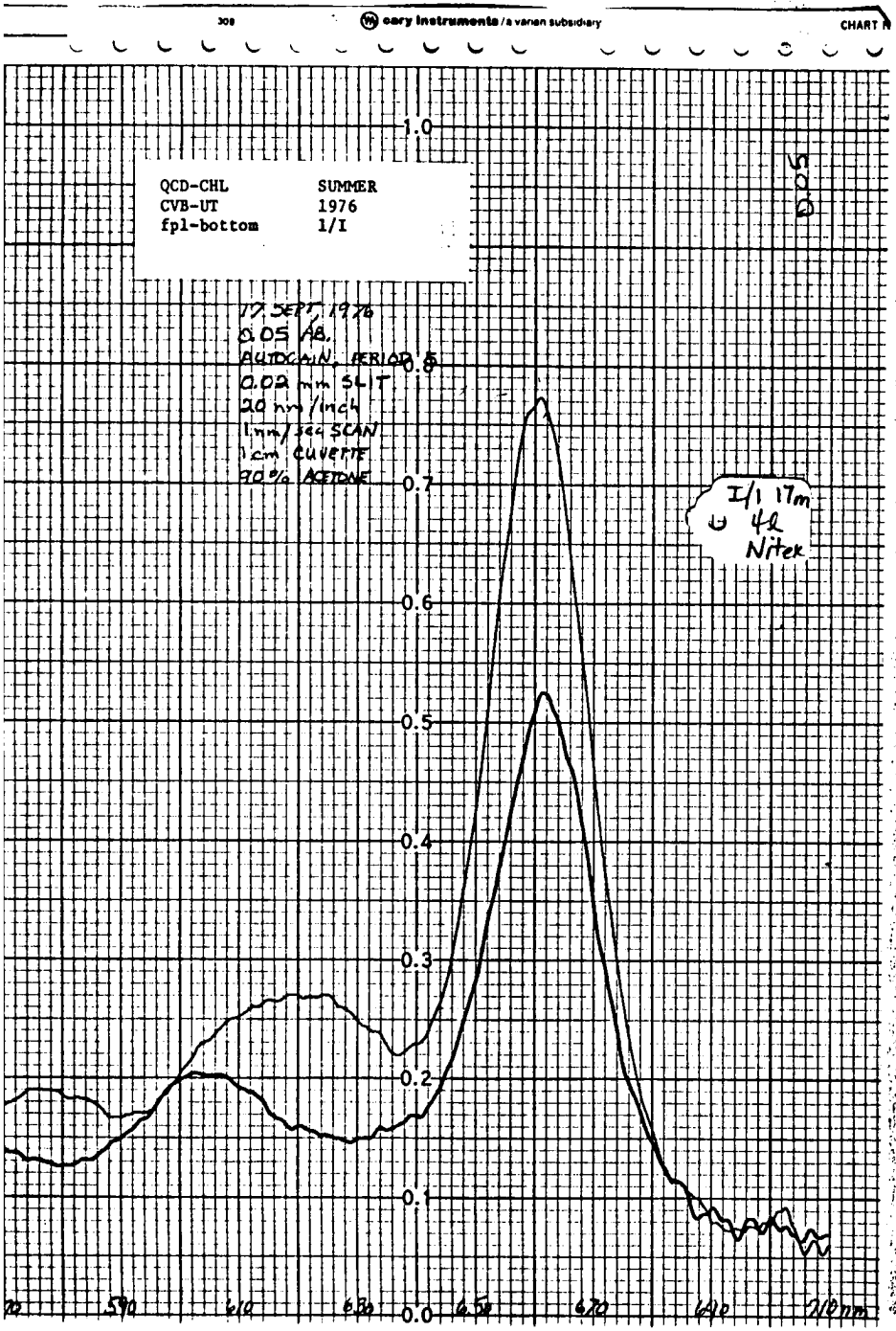

QCB-CHL- SUMMER
CVB-UT 1976
nan-1/2 p.z. 1/I
17 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE
I/1 6m
↓ 2.0l
Nano
0.05
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710 nm


QBX-CHL-p SUMMER
CVB-UT 1976
fpl-surface 1/I
17 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec
1 cm CUVETTE
90 % ACETONE
I/1 1m
Φ 4L
Niter
1.0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
610
630
650
670
690
710nm


QBY-CHL SUMMER
CVB-UT 1976
nan-surface 1/I
17 SEPT 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE
I/1 1m
Φ 2.25L
Nano
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
610
630
650
670
690
710nm


QDJ-CHL SUMMER
CVB-UT 1976
fpl-surface 2/I
17 SEPT 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20nm/inch
1mm/sec SCAN
1cm CUVETTE
90% ACETONE
I 2 1m 4l Vytex
1.0
0.9
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710nm


QDK-CHL SUMMER
CVB-UT 1976
nan-surface 2/I
17 SEPT, 1976
0.05 AB
AUTOGAIN PERIOD 5
0.02 mm SLIT
20 nm/inch
1mm/sec SCAN
1cm CUVETTE
90% ACETONE
I/2 1m 6 3.2e Nano
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710nm


cary instruments / a varian subsidiary
CHART
QCD-CHL SUMMER
CVB-UT 1976
fpl-bottom 1/I
17 SEPT 1976
0.05 AB.
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 mm/sec SCAN
1 cm CUVETTE
90% ACETONE
I/1 17m
4l
Niter
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
610
630
650
670
690
710nm

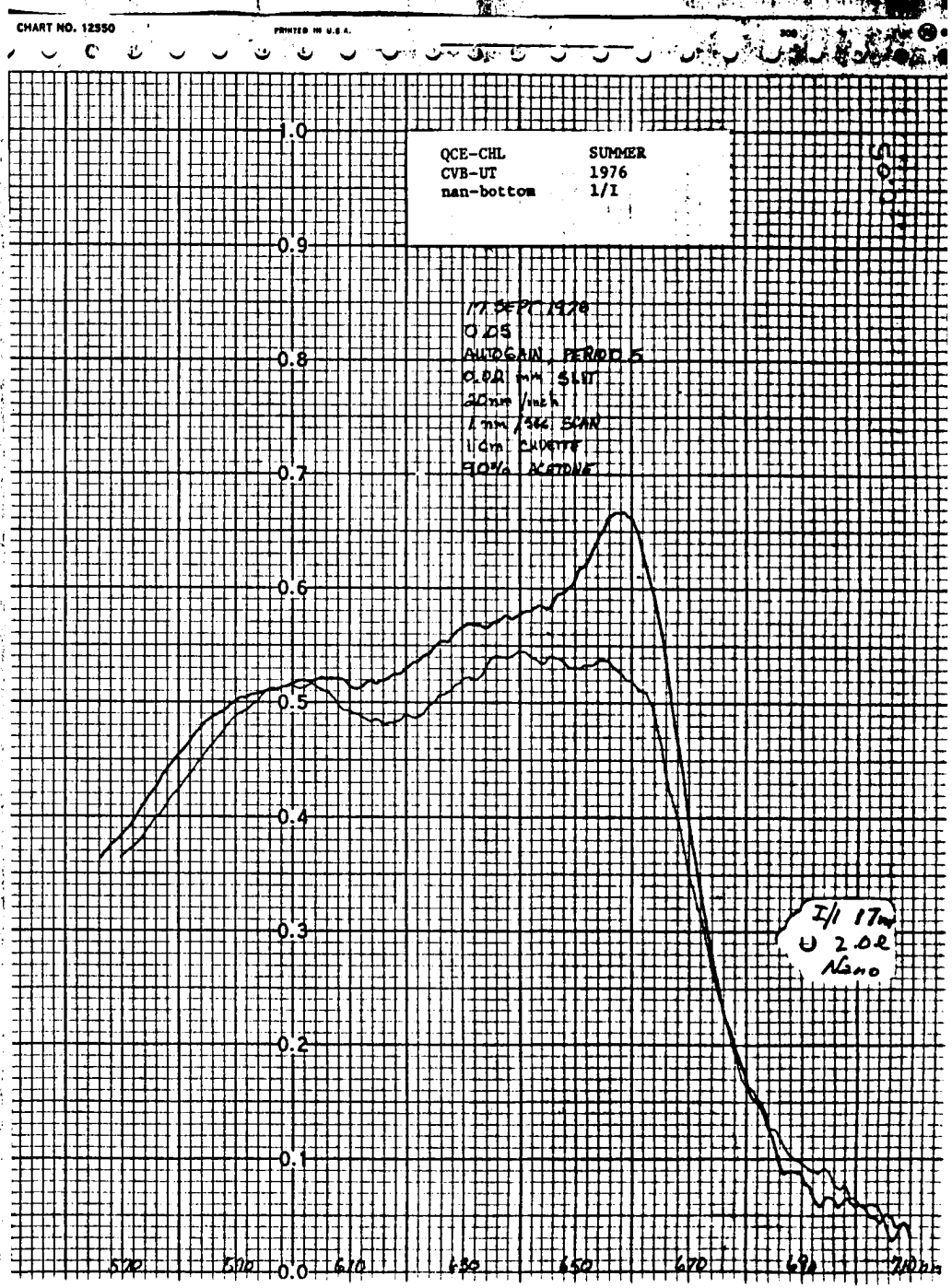
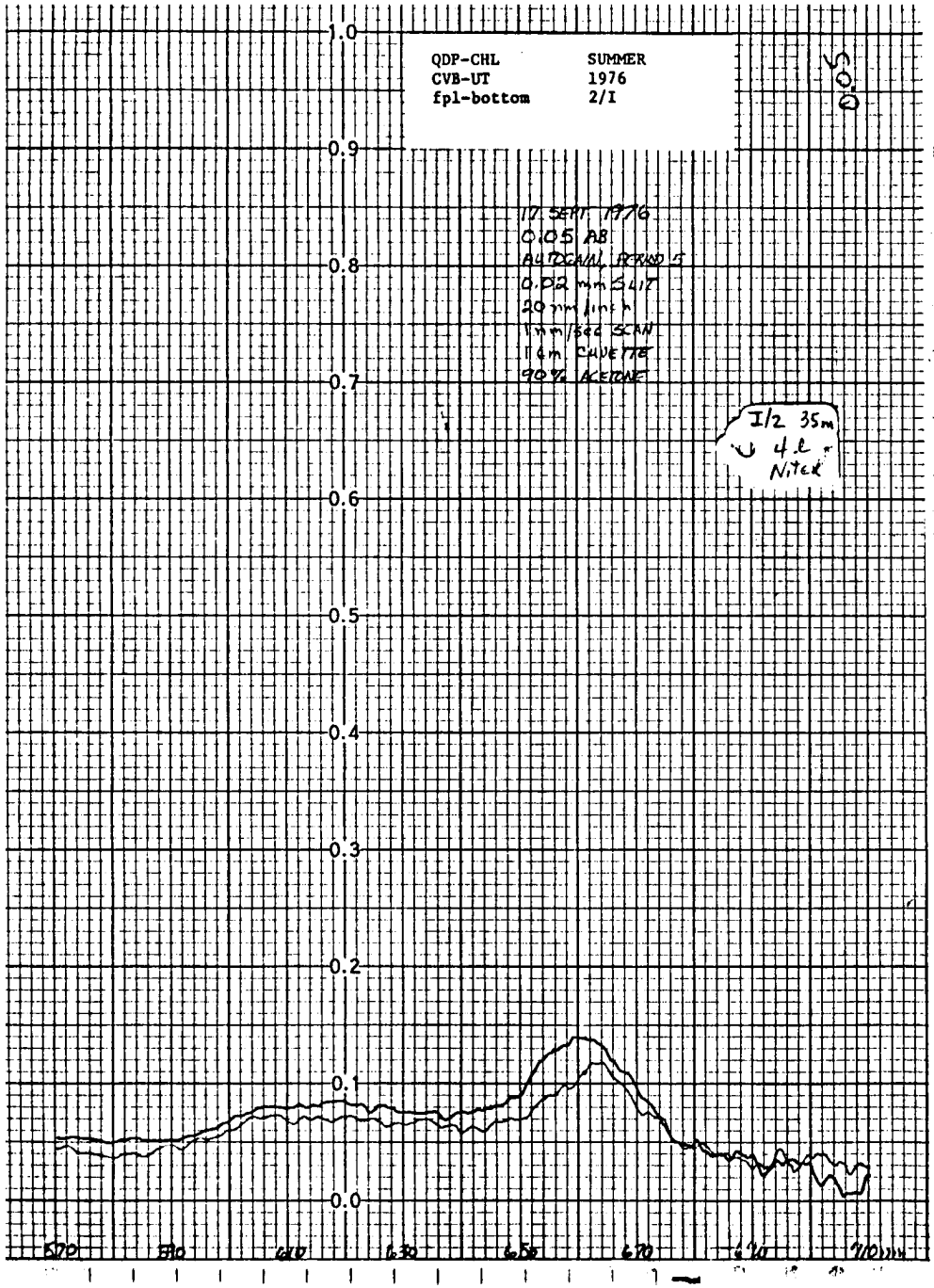
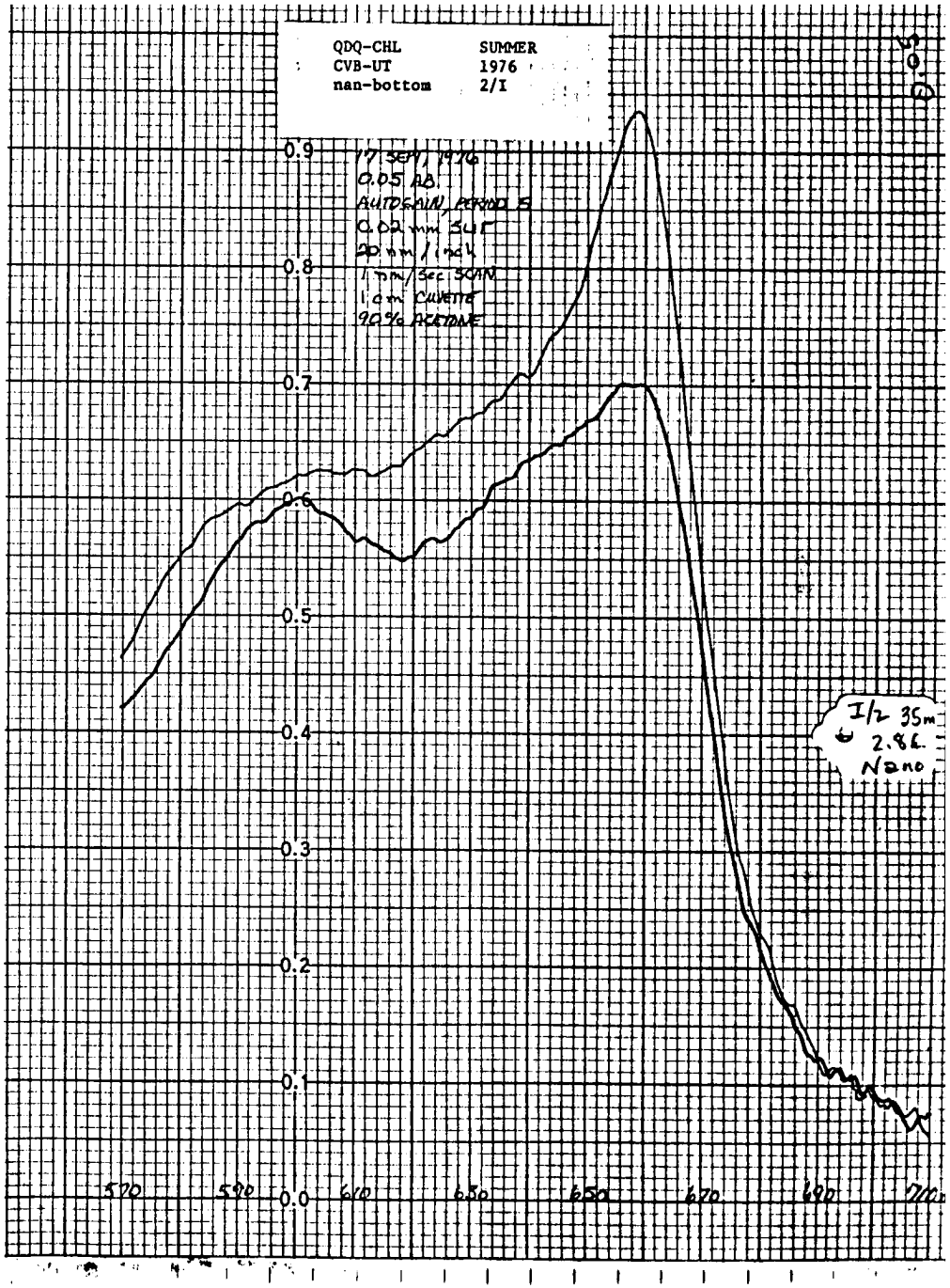
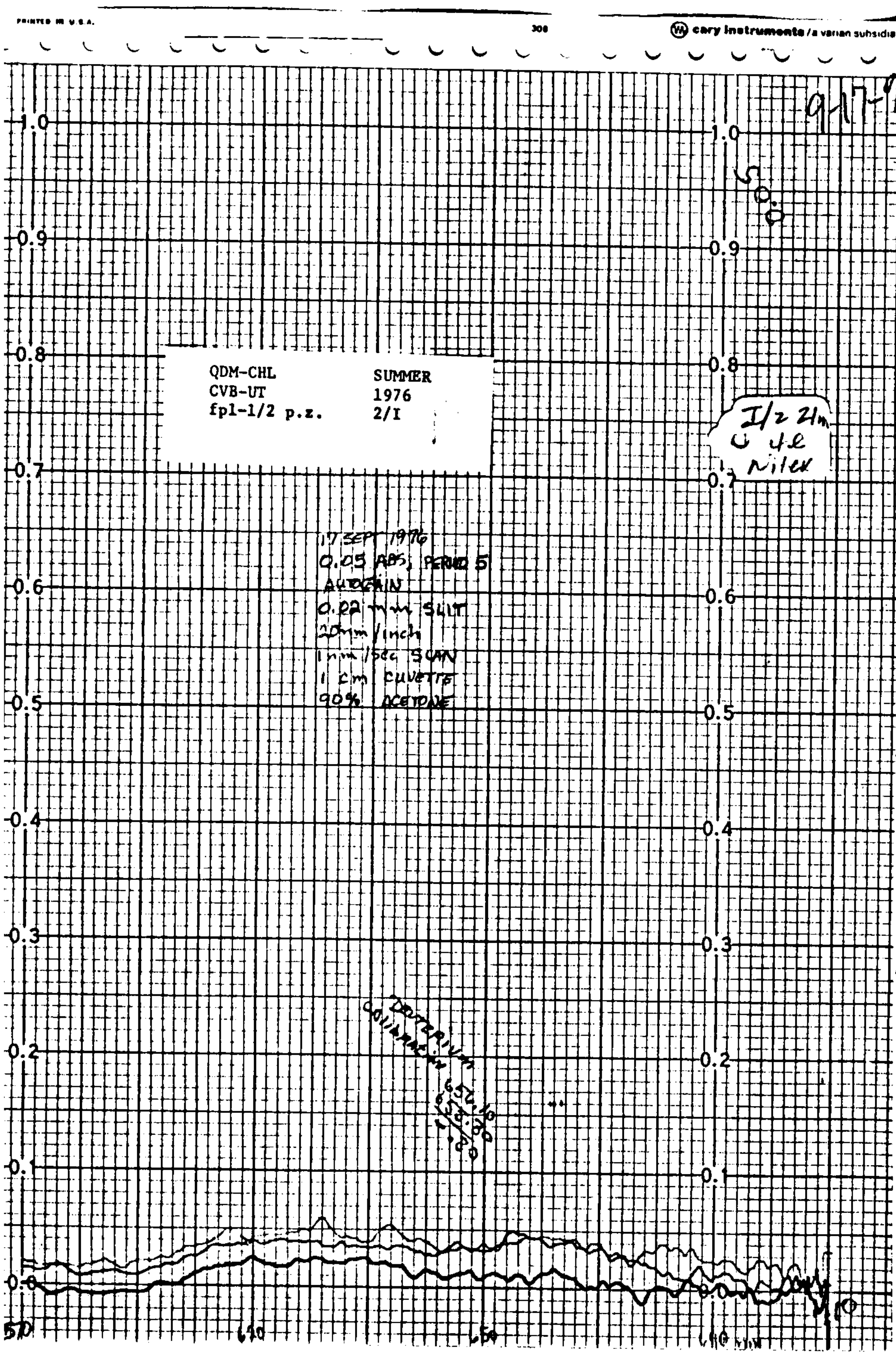
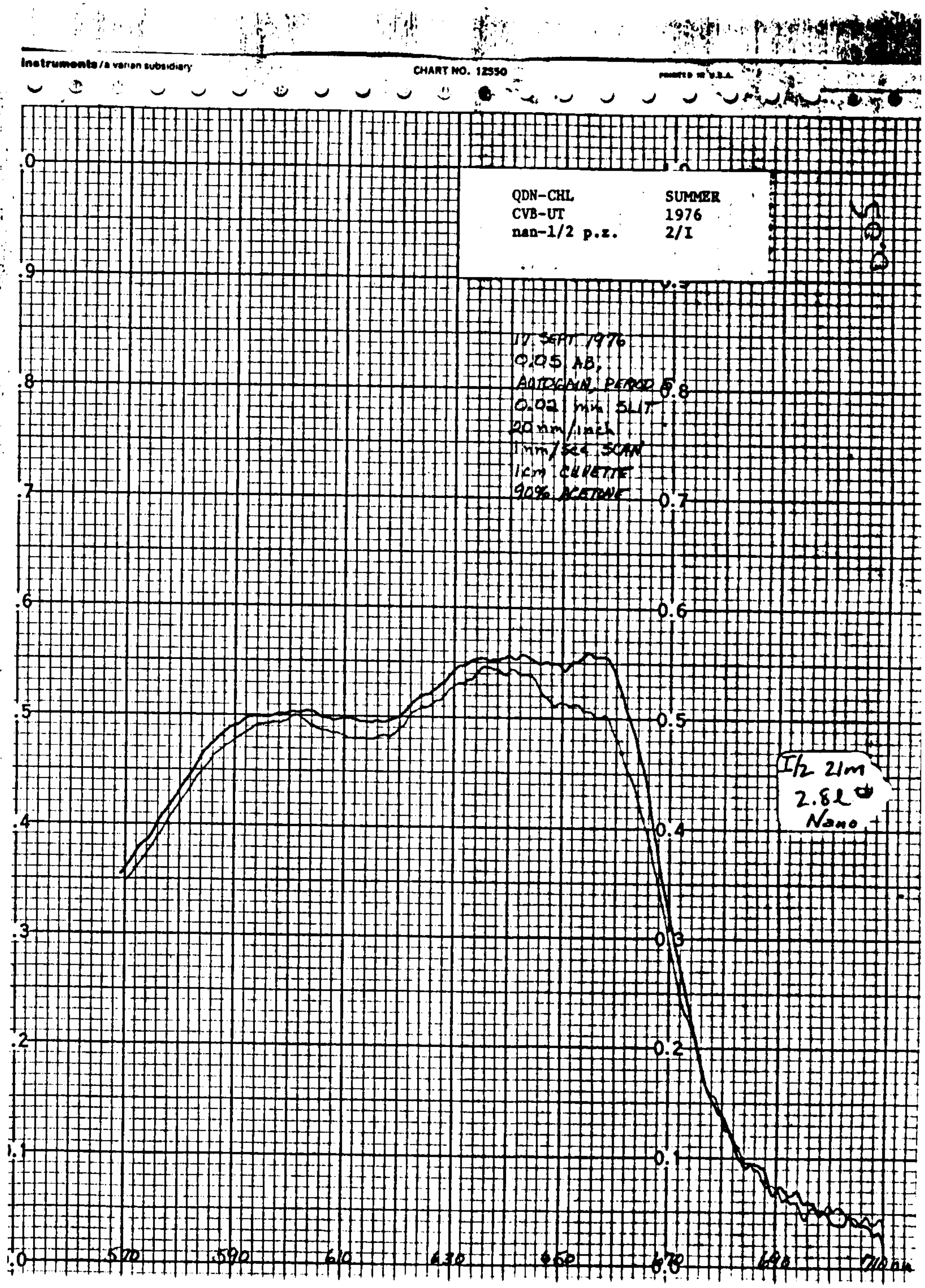


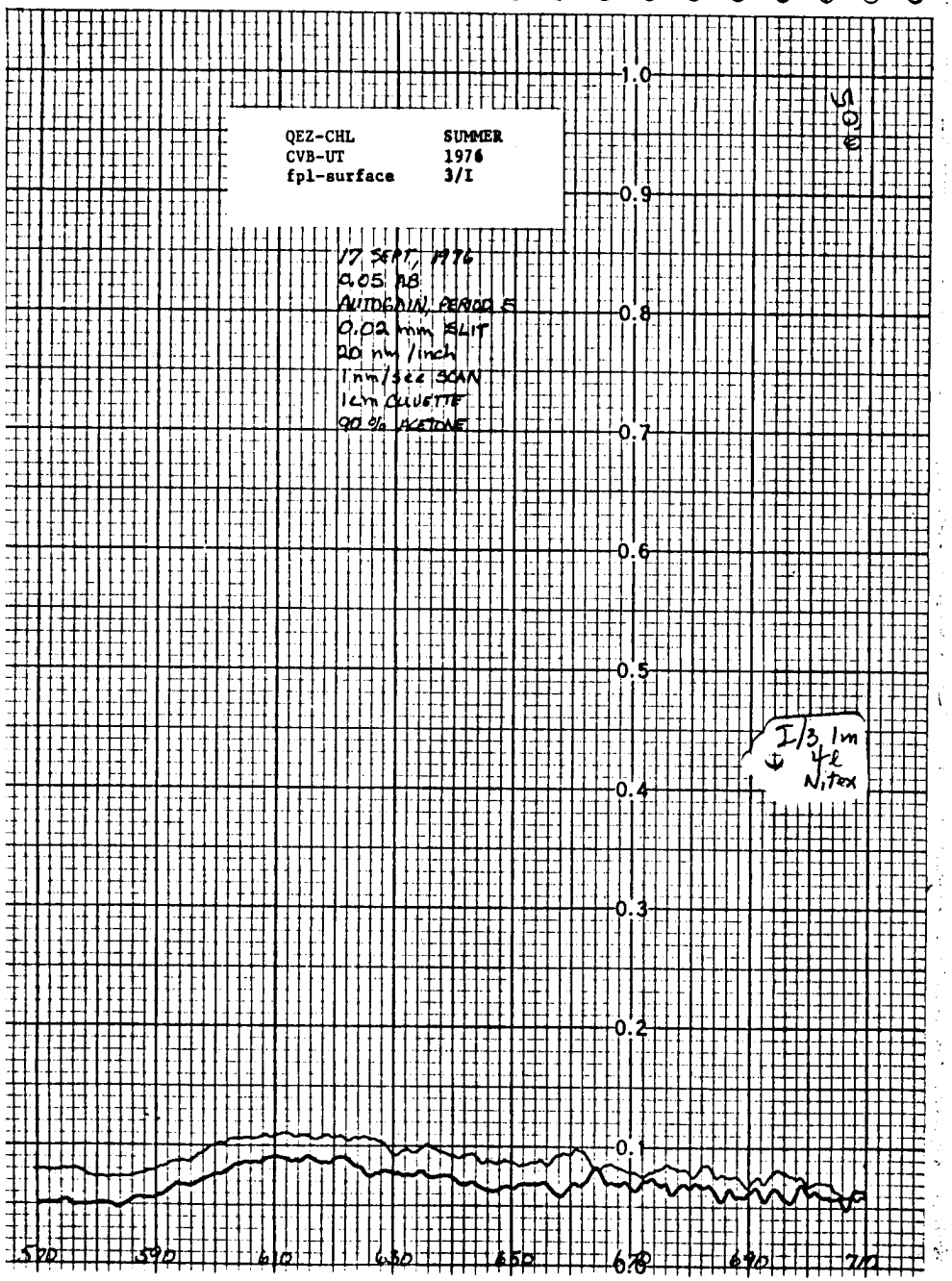
CHART NO. 12550
PRINTED IN U.S.A.
QCE-CHL SUMMER
CVB-UT 1976
nan-bottom 1/I
17 SEPT 1976
0.05
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20nm/inch
1 mm/sec SCAN
1 cm CUVETTE
90% ACETONE
I/1 17m
2 OR
Nano
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
610
630
650
670
690
710nm

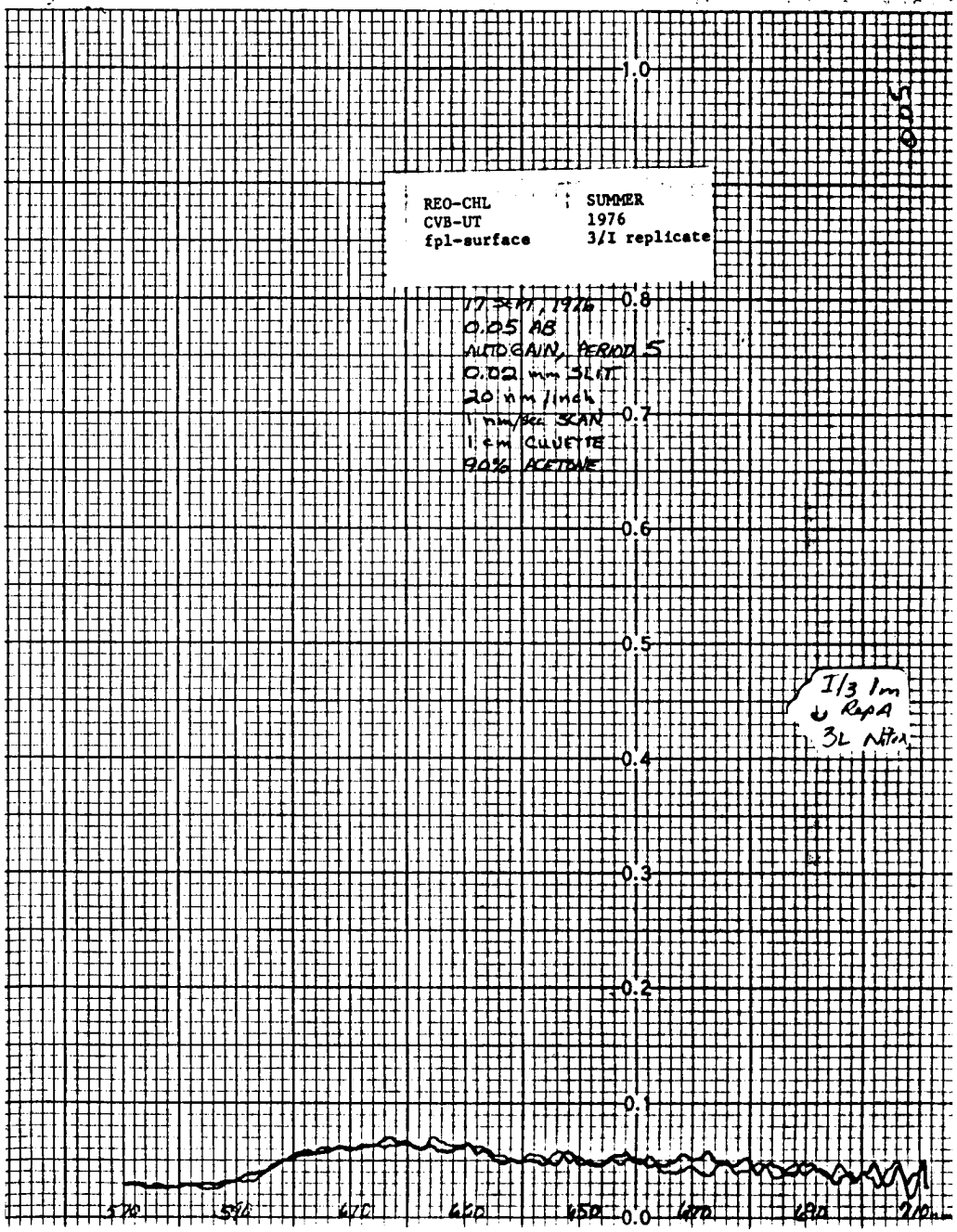

QDP-CHL SUMMER
CVB-UT 1976
fpl-bottom 2/I
17 SEPT 1976
0.05 AB
AUTOSCAN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE
I/2 35m
4.2
Nitex
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 nm

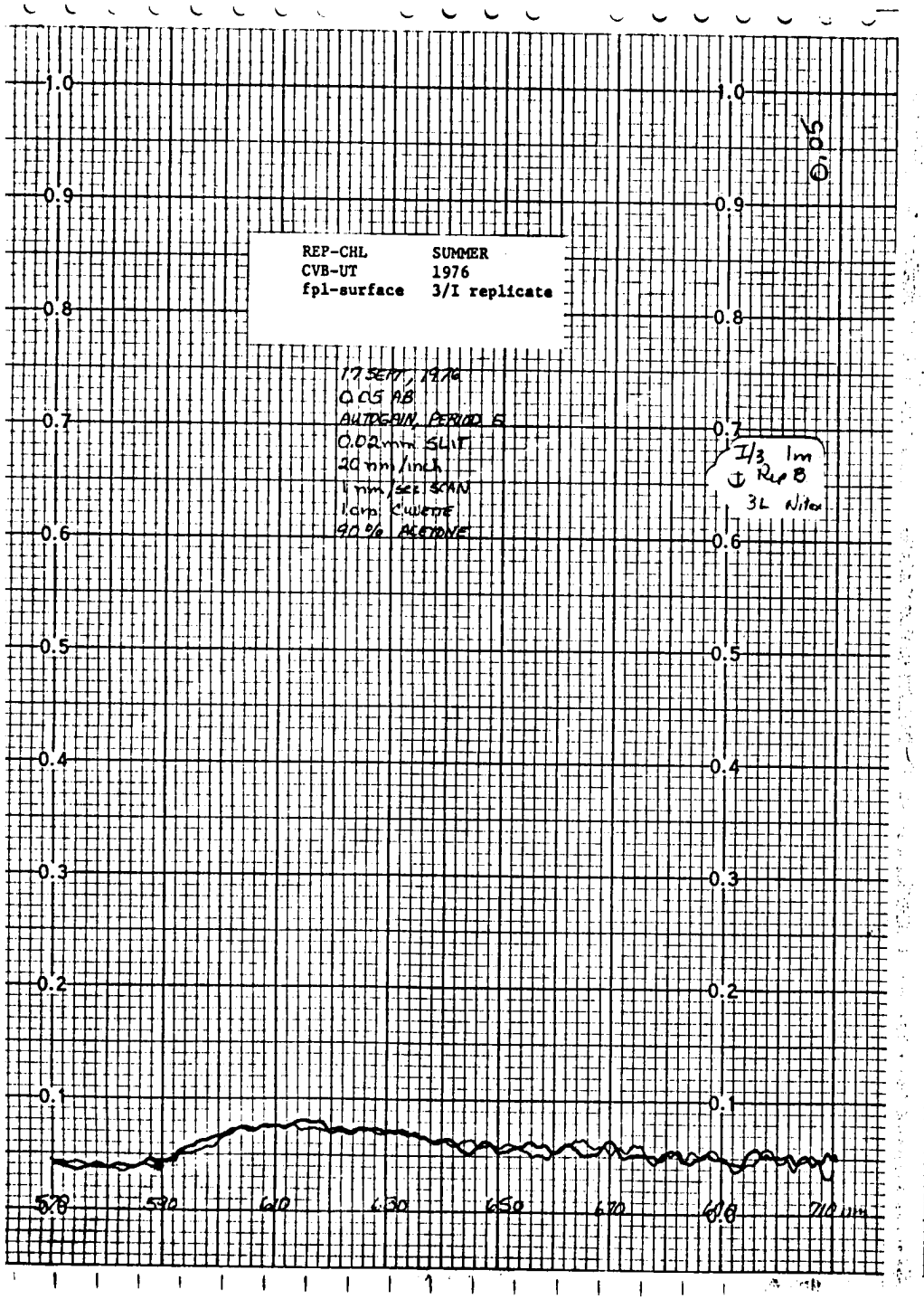

QDQ-CHL SUMMER
CVB-UT 1976
nan-bottom 2/I
17 SEPT 1976
0.05 AB
AUTOSCAN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE
I/2 35m
2.8
Nano
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 nm

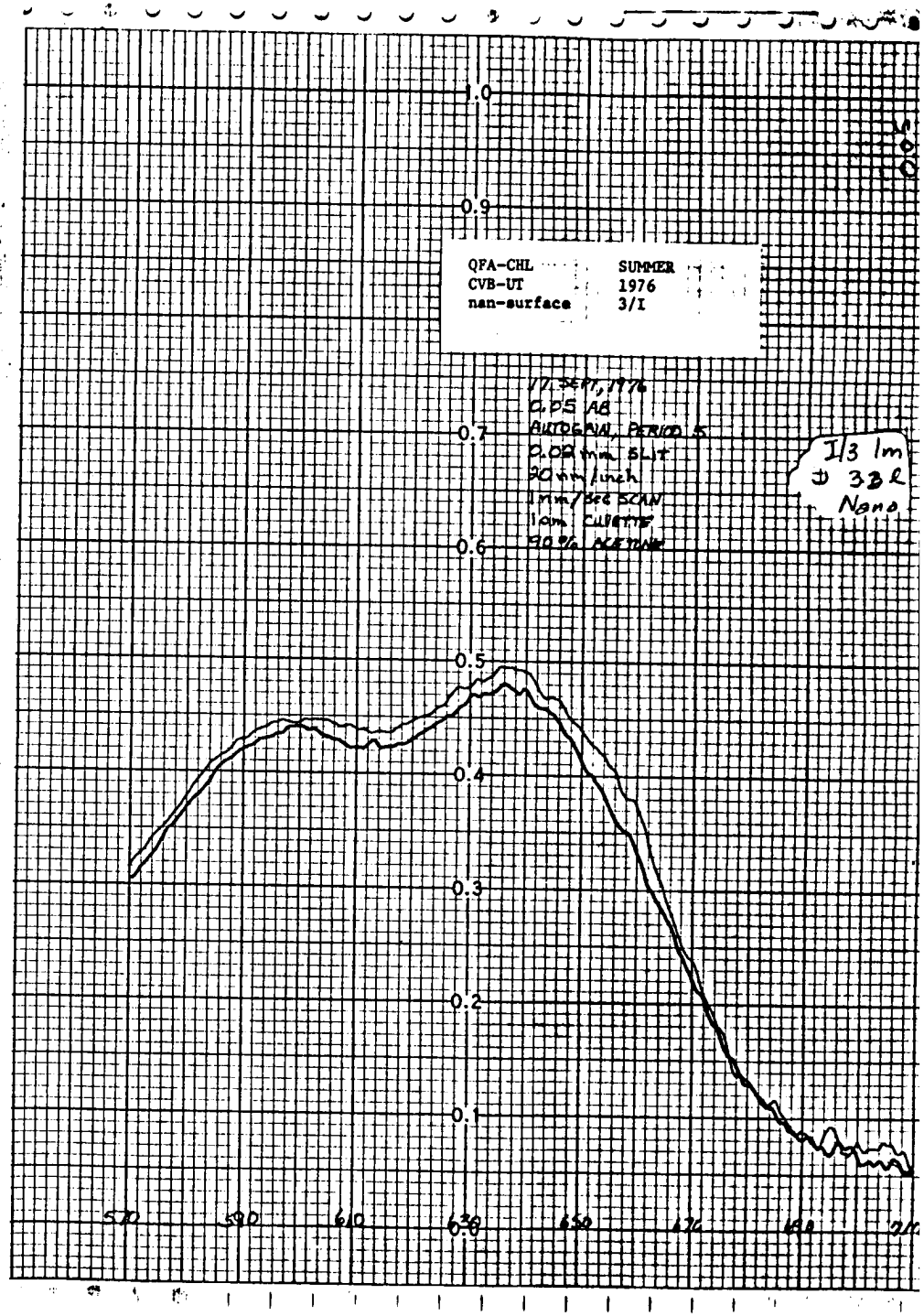

cary instruments / a varian subsidia
QDM-CHL
CVB-UT
fpl-1/2 p.z.
SUMMER
1976
2/I
17 SEPT 1976
0.05 ABS, PERIOD 5
AUTOGAIN
0.02 mm SLIT
20 mm/inch
1 mm/sec SCAN
1 cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0

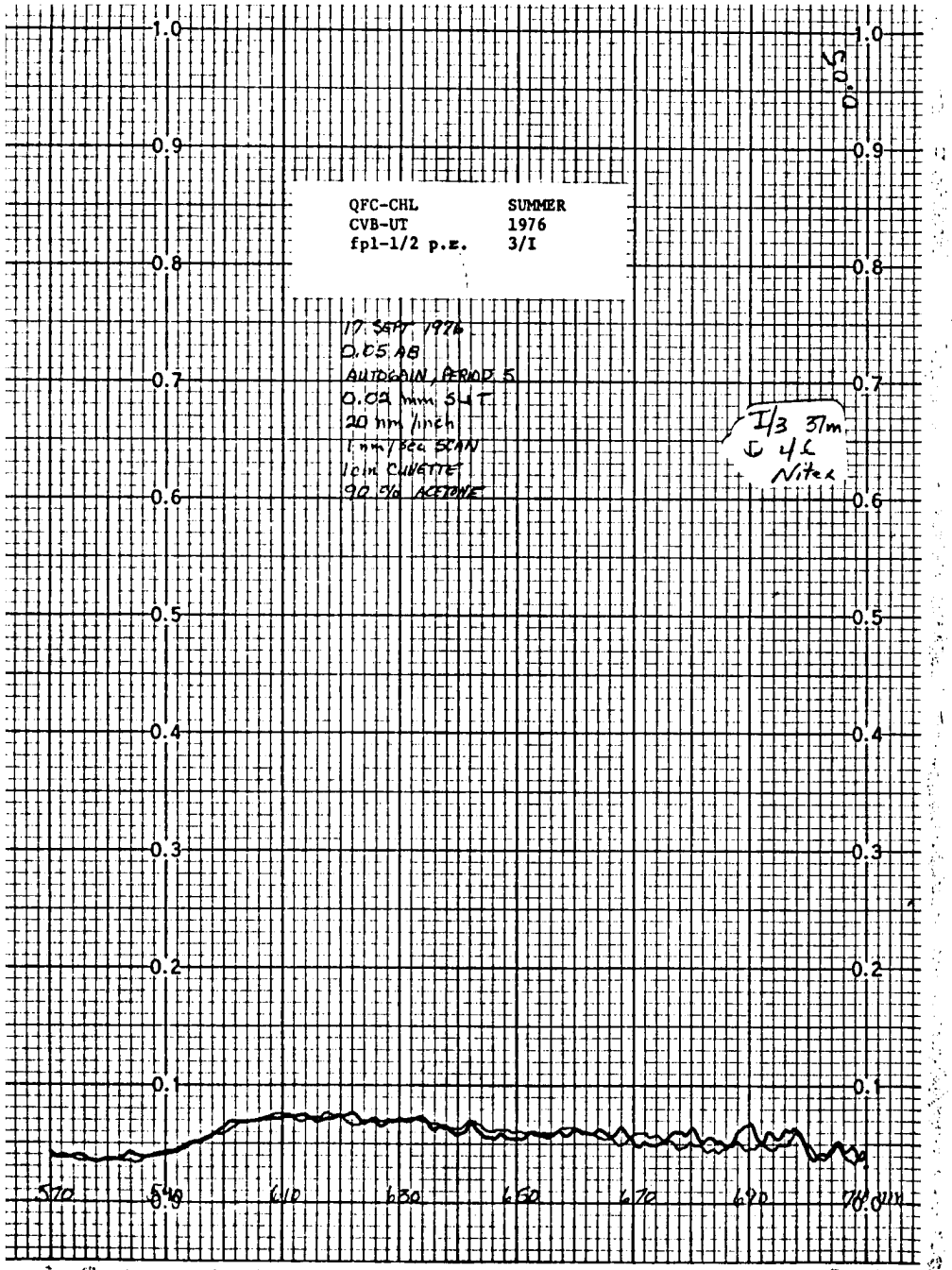

instruments / a varian subsidiary
CHART NO. 12550
QDN-CHL
CVB-UT
nan-1/2 p.z.
SUMMER
1976
2/I
17 SEPT 1976
0.05 AB,
AUTOGAIN PERIOD 5
0.02 mm SLIT
20 mm/inch
1 mm/sec SCAN
1 cm CUVETTE
90% ACETONE
570
590
610
630
650
670
690
710 nm

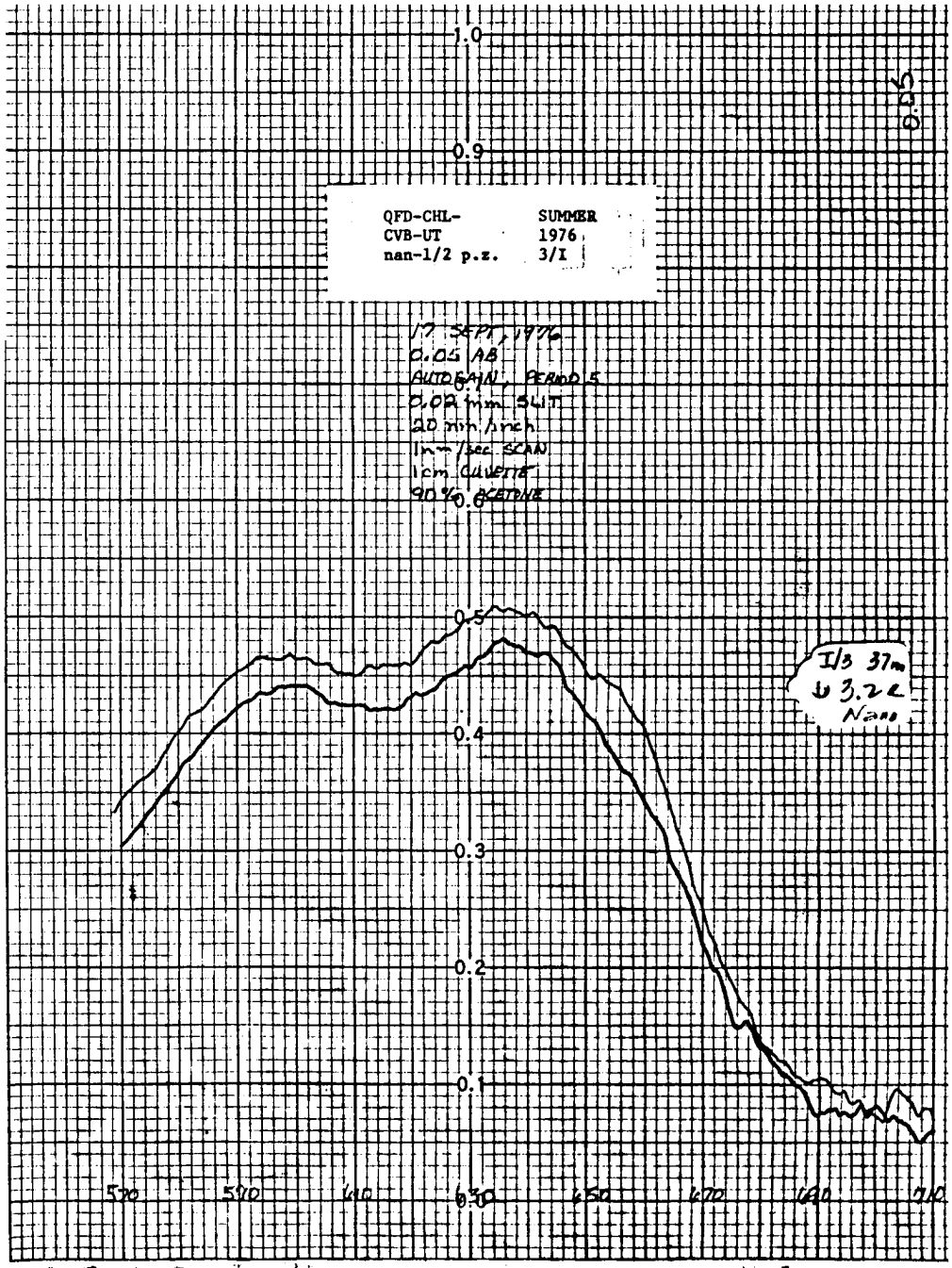

QEZ-CHL SUMMER
CVB-UT 1976
fpl-surface 3/I
17 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE
I/3, 1m
4L
Nitex
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
590
610
630
650
670
690
710

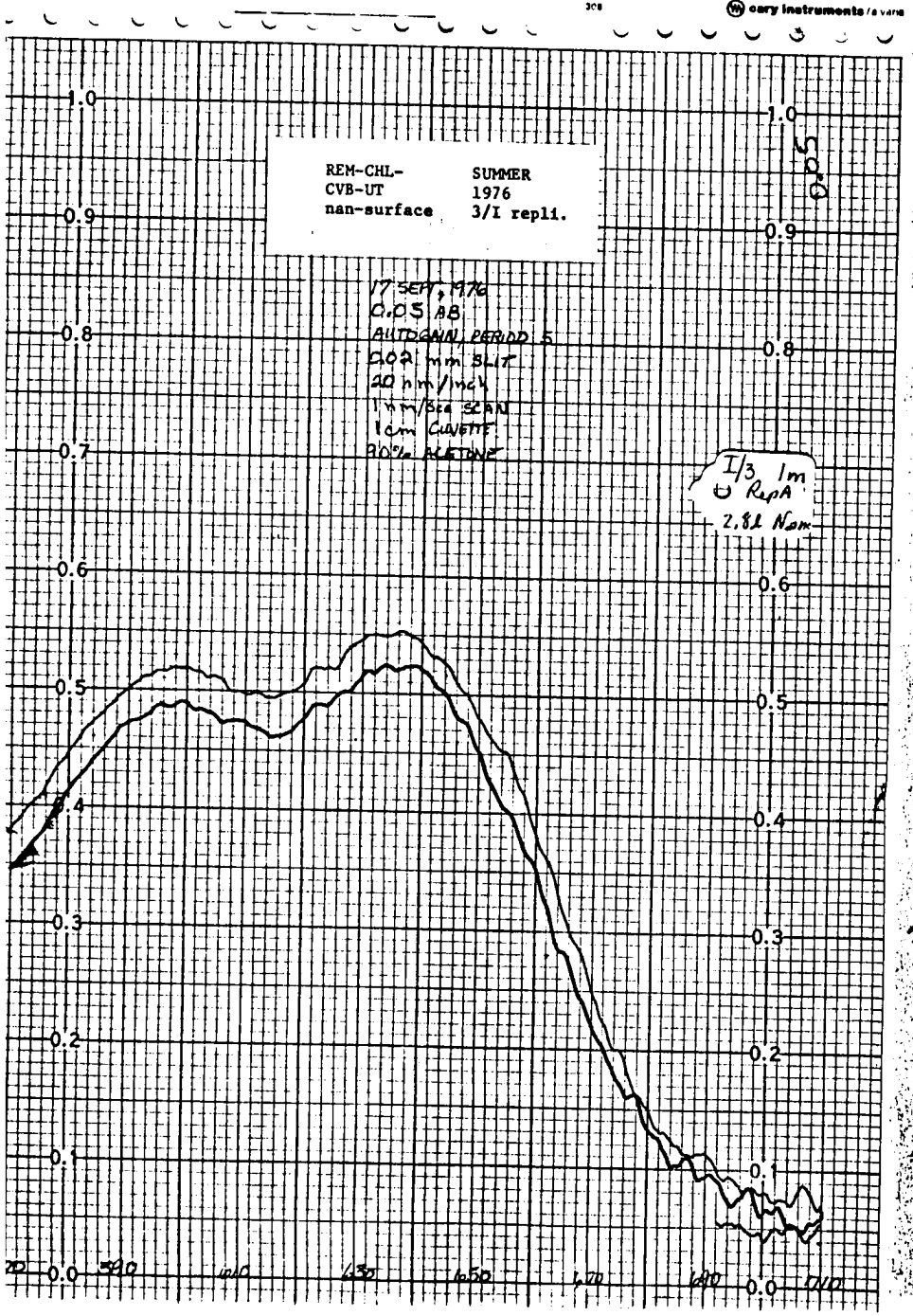

REO-CHL SUMMER
CVB-UT 1976
fpl-surface 3/I replicate
17 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE
I/3 1m
RapA
3L Nitex
1.0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710

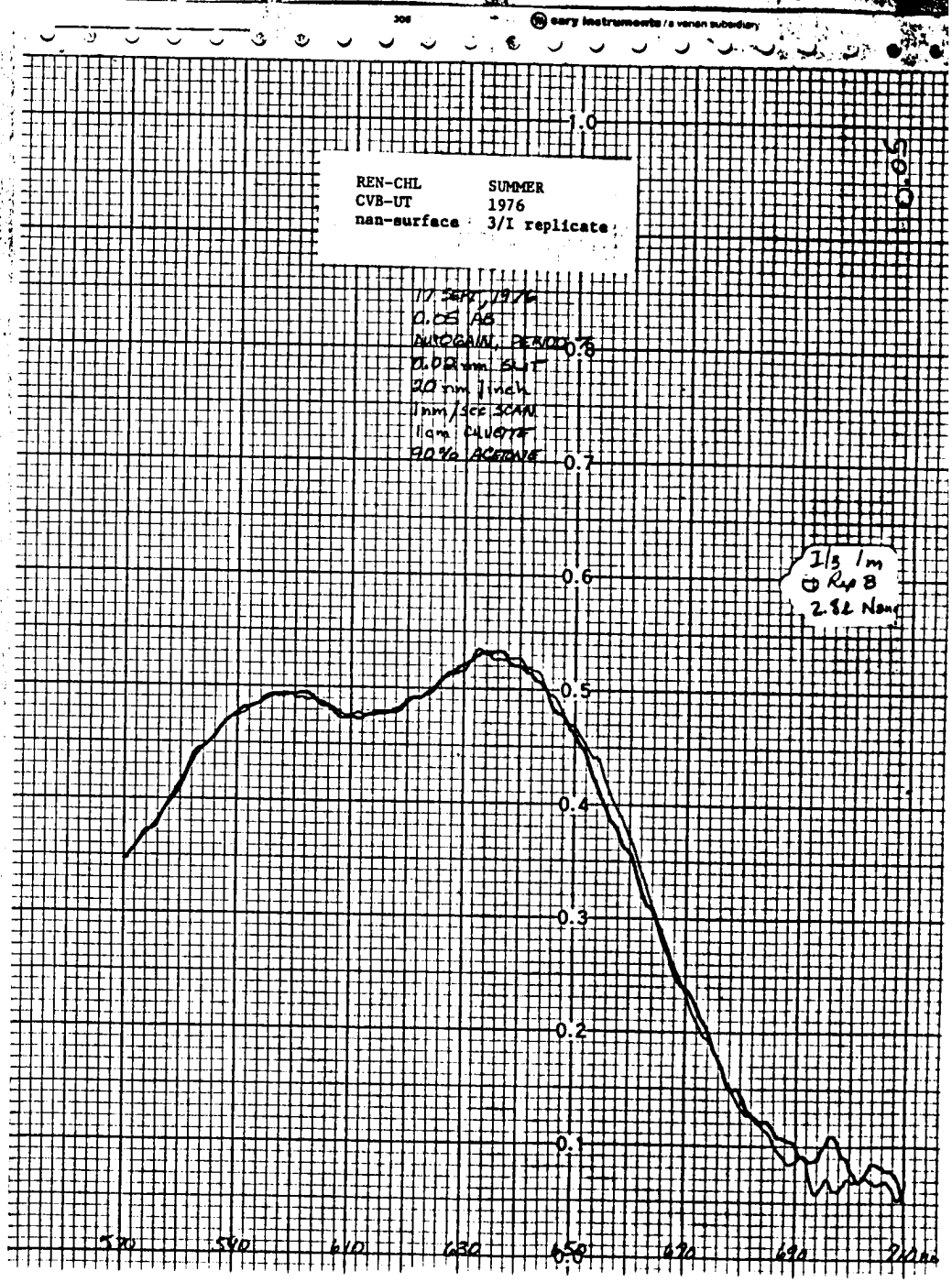

REP-CHL SUMMER
CVB-UT 1976
fpl-surface 3/I replicate
17 SEPT, 1976
QCS AB
AUTOGAIN, PERIOD 6
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE
I/3 Im
Rep 8
3L Nitex
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710 nm

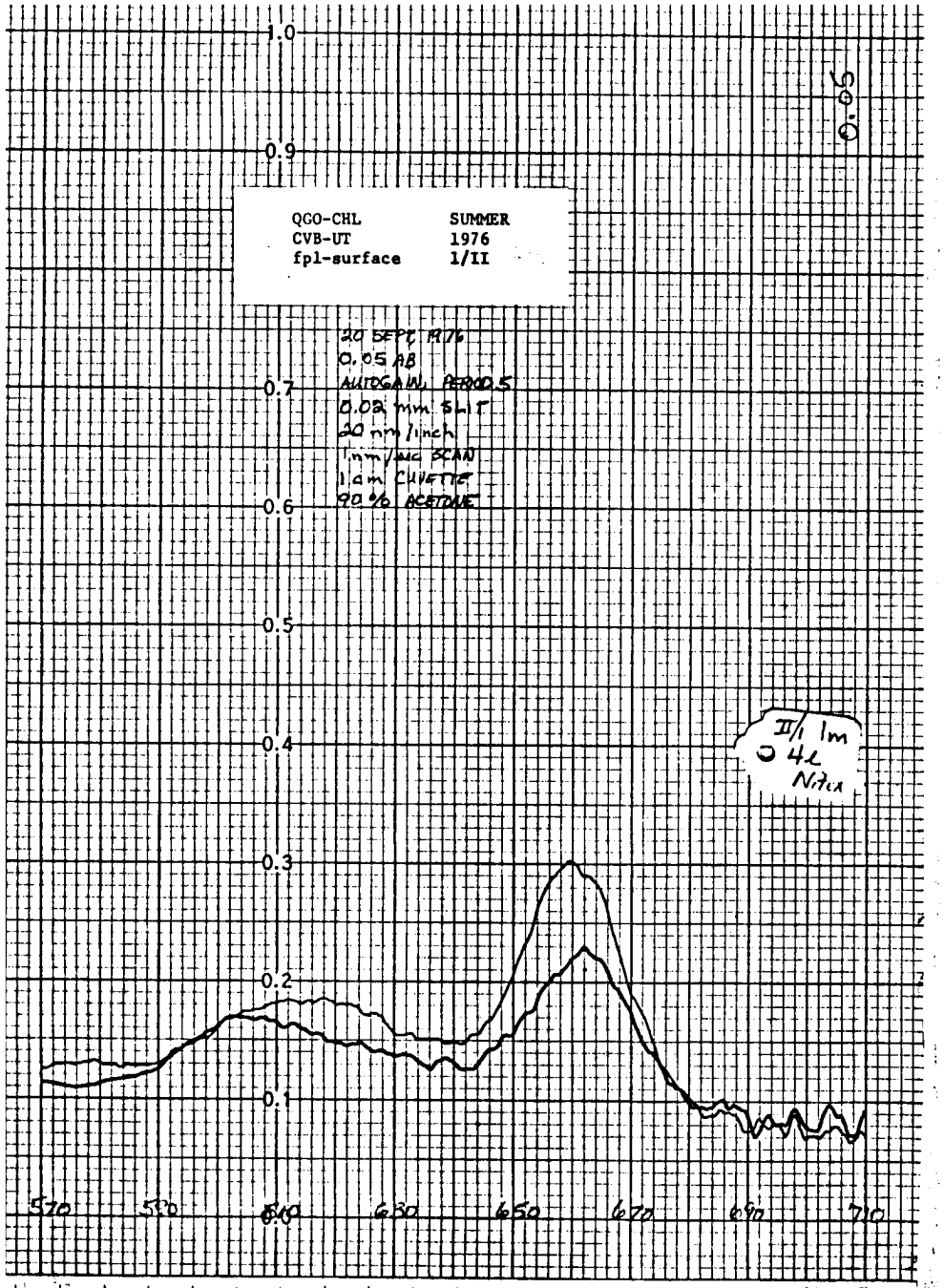

QFA-CHL SUMMER
CVB-UT 1976
nan-surface 3/I
17 SEPT, 1976
QCS AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE
I/3 Im
3 3R
Nano
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650


QFC-CHL SUMMER
CVB-UT 1976
fpl-1/2 p.z. 3/I
17 SEPT 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1cm CUVETTE
90% ACETONE
I/3 37m
↓ 4L
Niter
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 nm


QFD-CHL- SUMMER
CVB-UT 1976
nan-1/2 p.z. 3/I
17 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1cm CUVETTE
90% ACETONE
I/3 37m
↓ 3.2L
Nano
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 nm


REM-CHL-
CVB-UT
nan-surface
SUMMER
1976
3/I repli.
17 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1cm CUVETTE
90% ACETONE
I/3 1m
D Rep A
2.82 Nom
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
610
630
650
670
690
710
nm


REN-CHL
CVB-UT
nan-surface
SUMMER
1976
3/I replicate
10 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1cm CUVETTE
90% ACETONE
I/3 1m
D Rep B
2.82 Nom
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710
nm


QGO-CHL SUMMER
CVB-UT 1976
fpl-surface 1/II
20 SEPT 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 mm/sec SCAN
1 cm CUVETTE
90% ACETONE
II/1 1m
0 4L
Nitex
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710

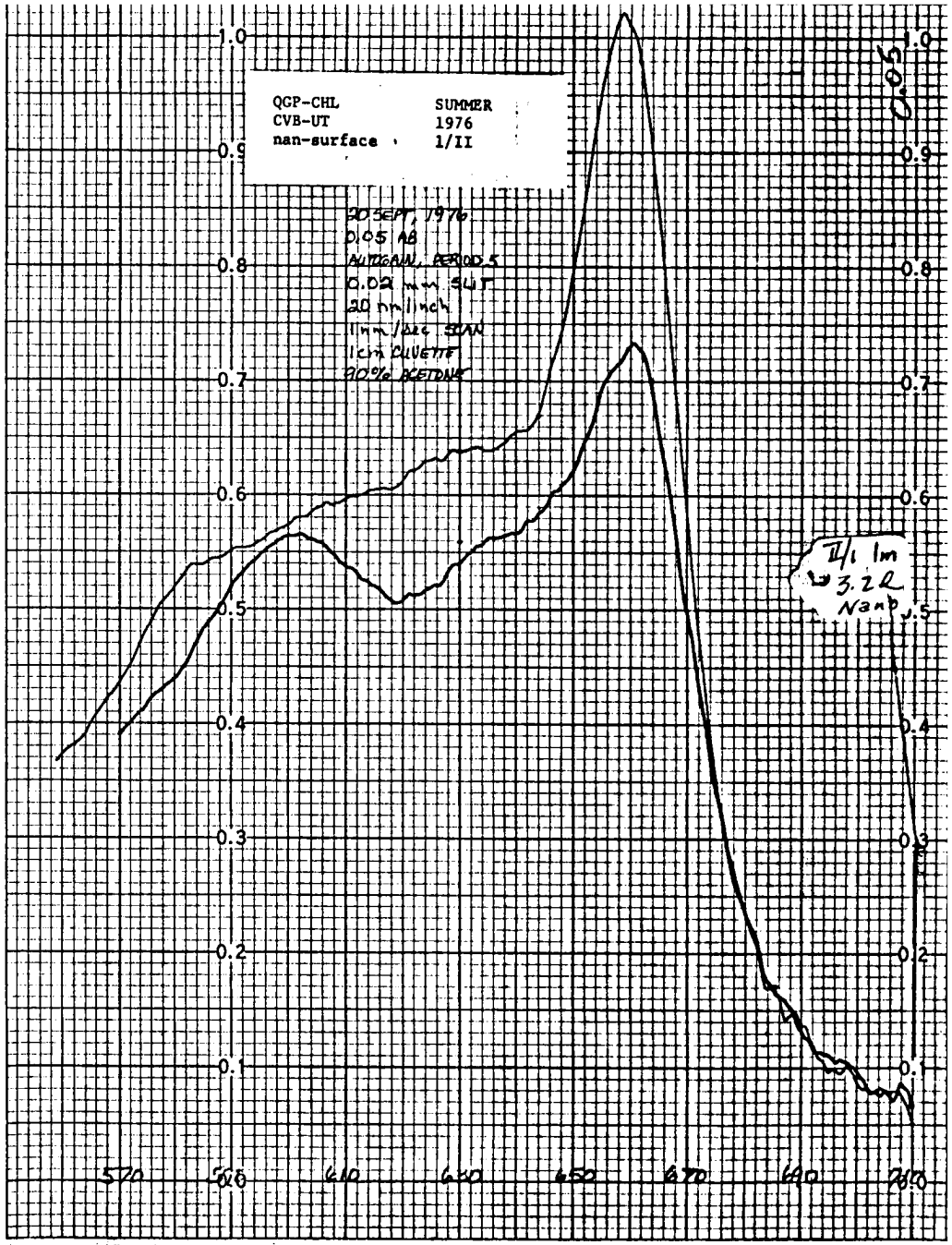
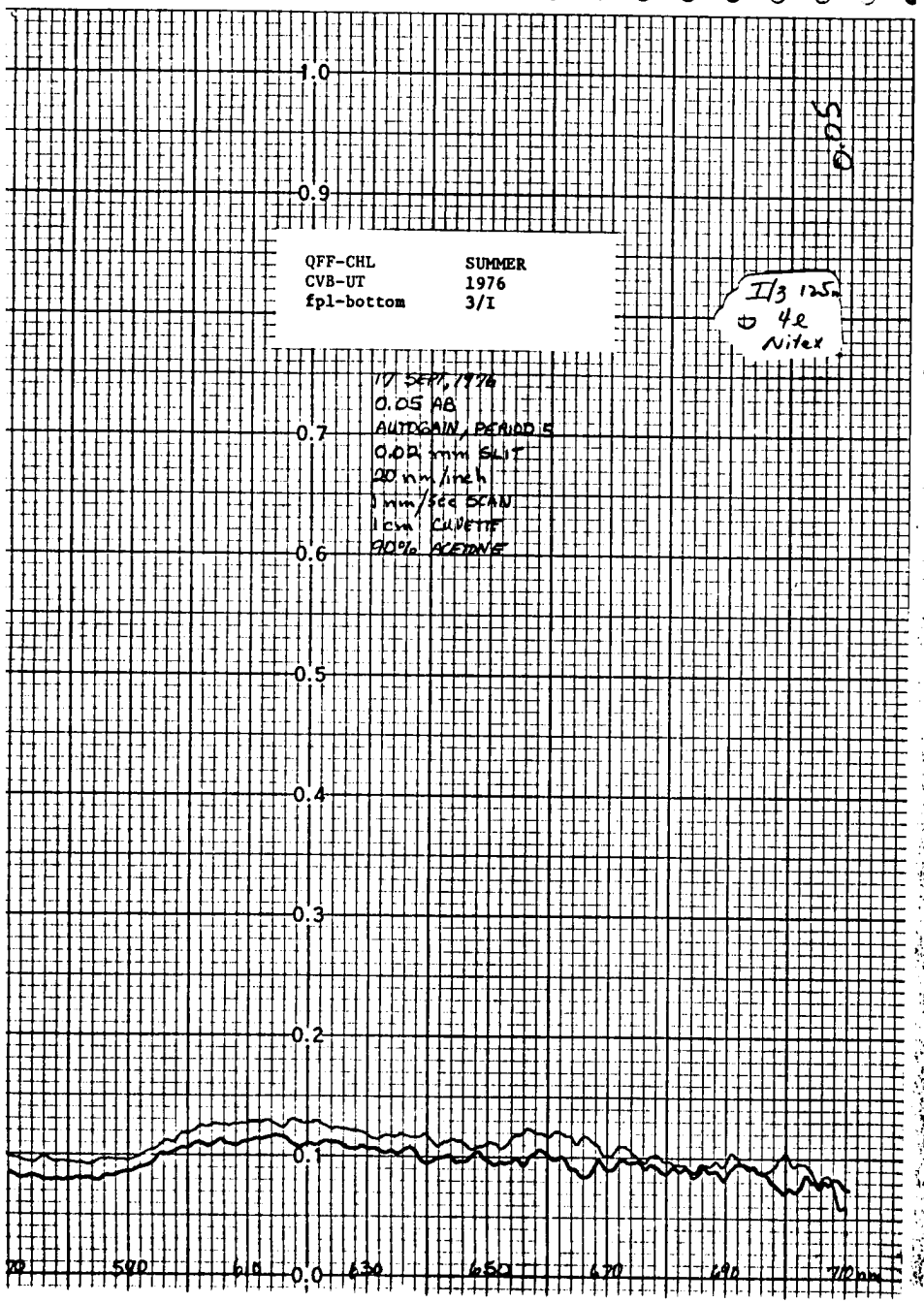
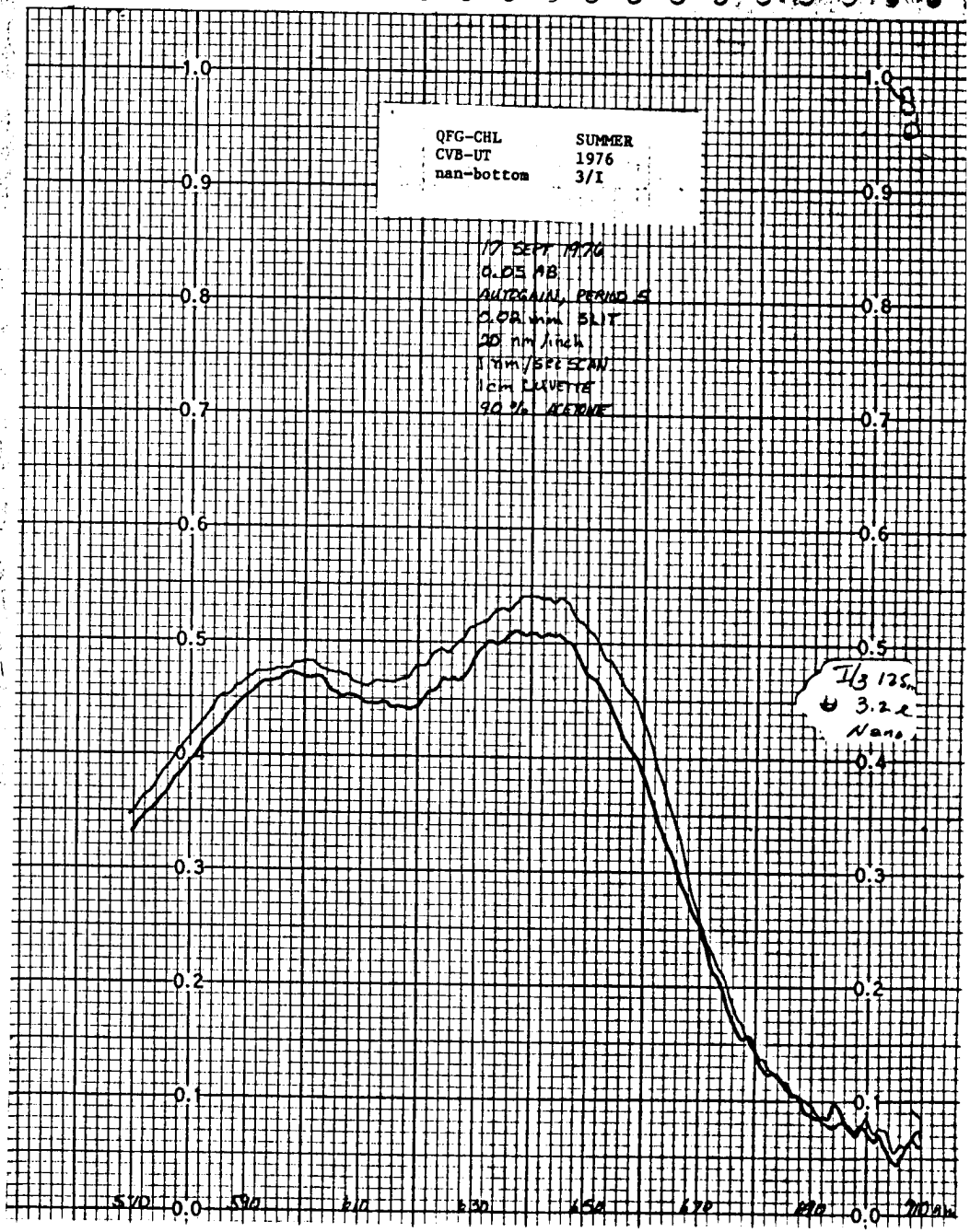
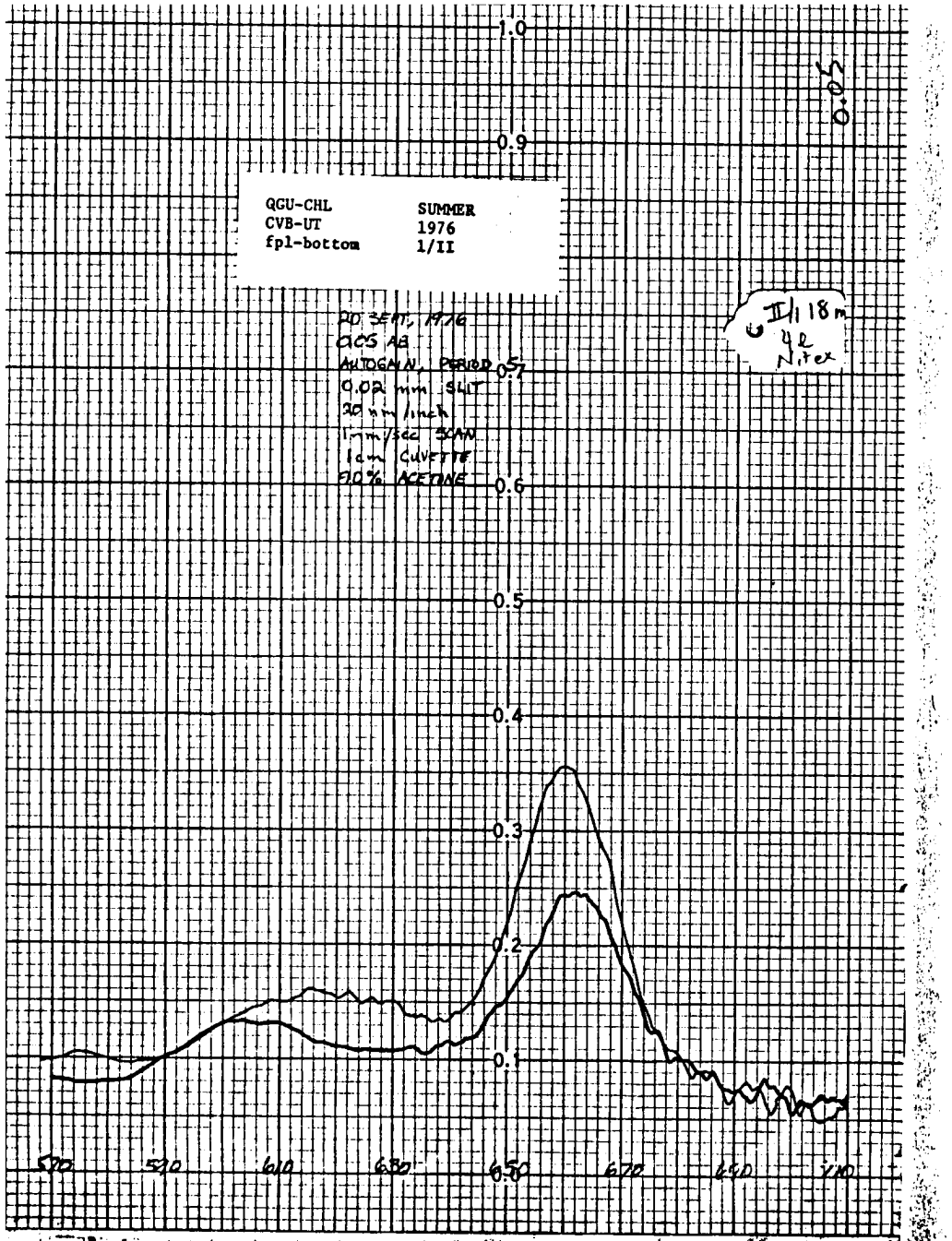
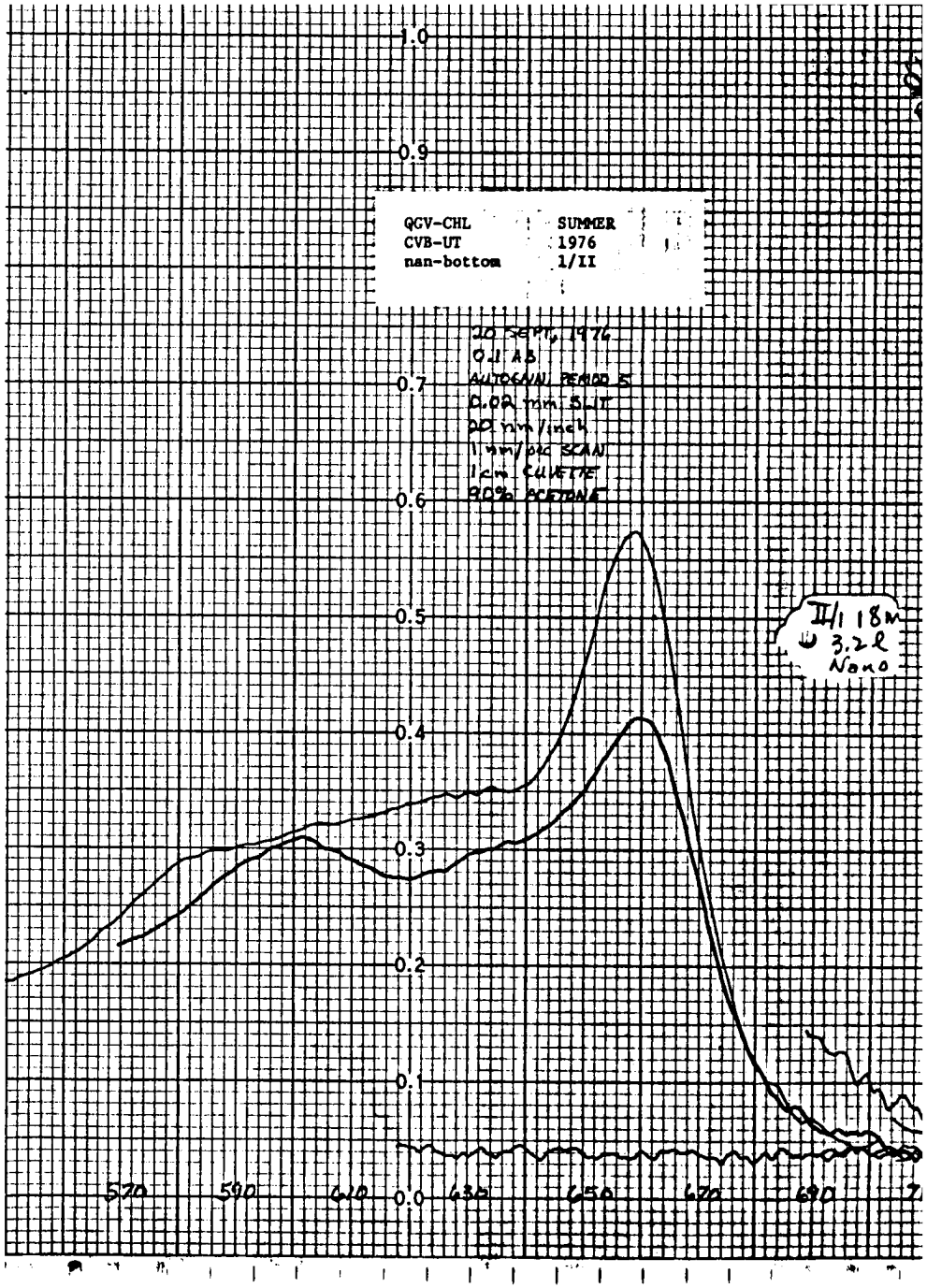

QGP-CHL SUMMER
CVB-UT 1976
nan-surface 1/II
20 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 mm/sec SCAN
1 cm CUVETTE
90% ACETONE
II/1 1m
3.2L
Nanp
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710

CHART NO. 12550 PRINTED IN U.S.A.






QGU-CHL SUMMER
CVB-UT 1976
fpl-bottom 1/II
20 SEPT, 1976
CICS AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE
II/1 18m
4 l
Nitex
1.0
0.9
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690


QGV-CHL SUMMER
CVB-UT 1976
nan-bottom 1/II
20 SEPT, 1976
0.1 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE
II/1 18m
3.2 l
Nano
1.0
0.9
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690

cary instruments/a varian subsidiary

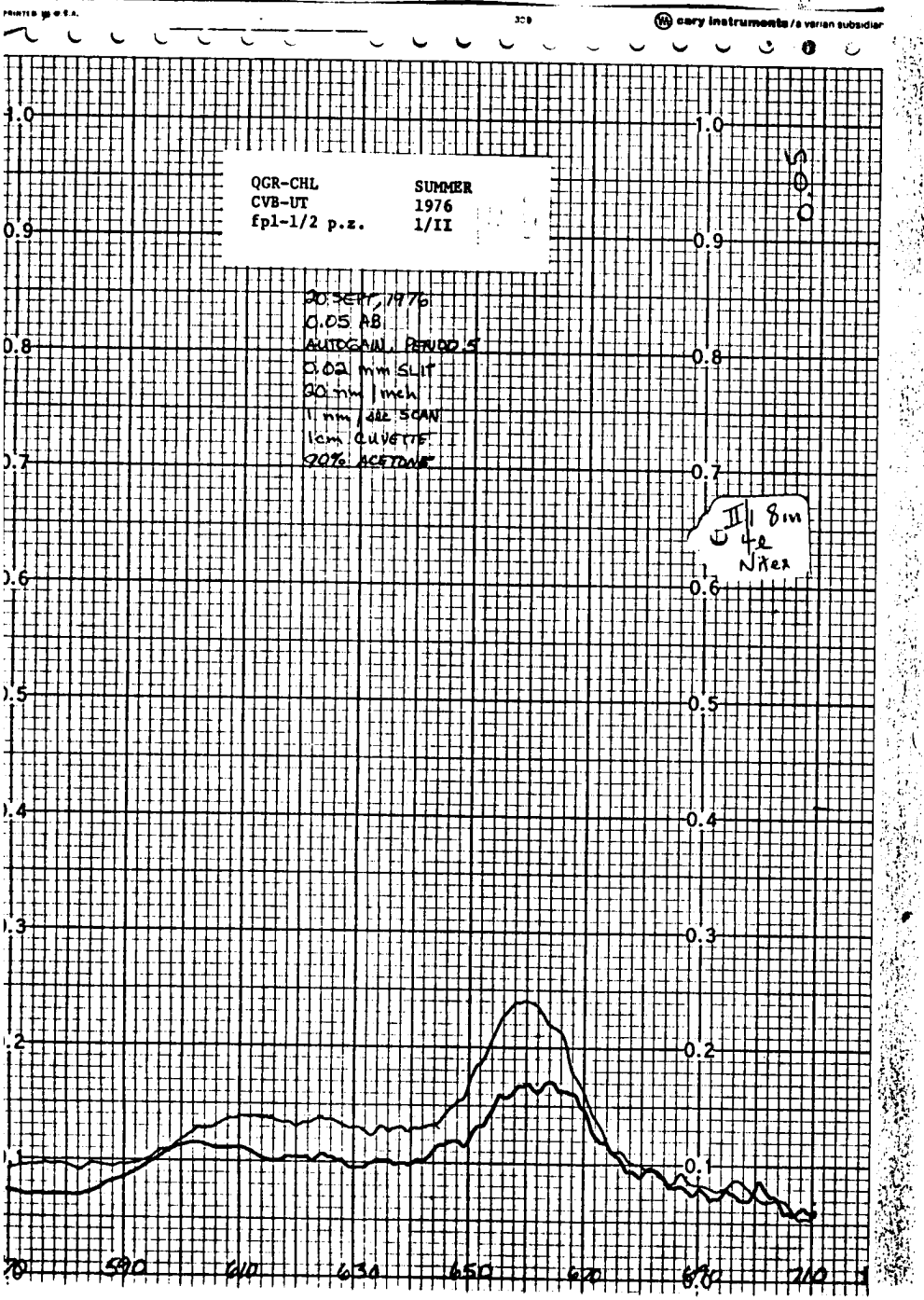
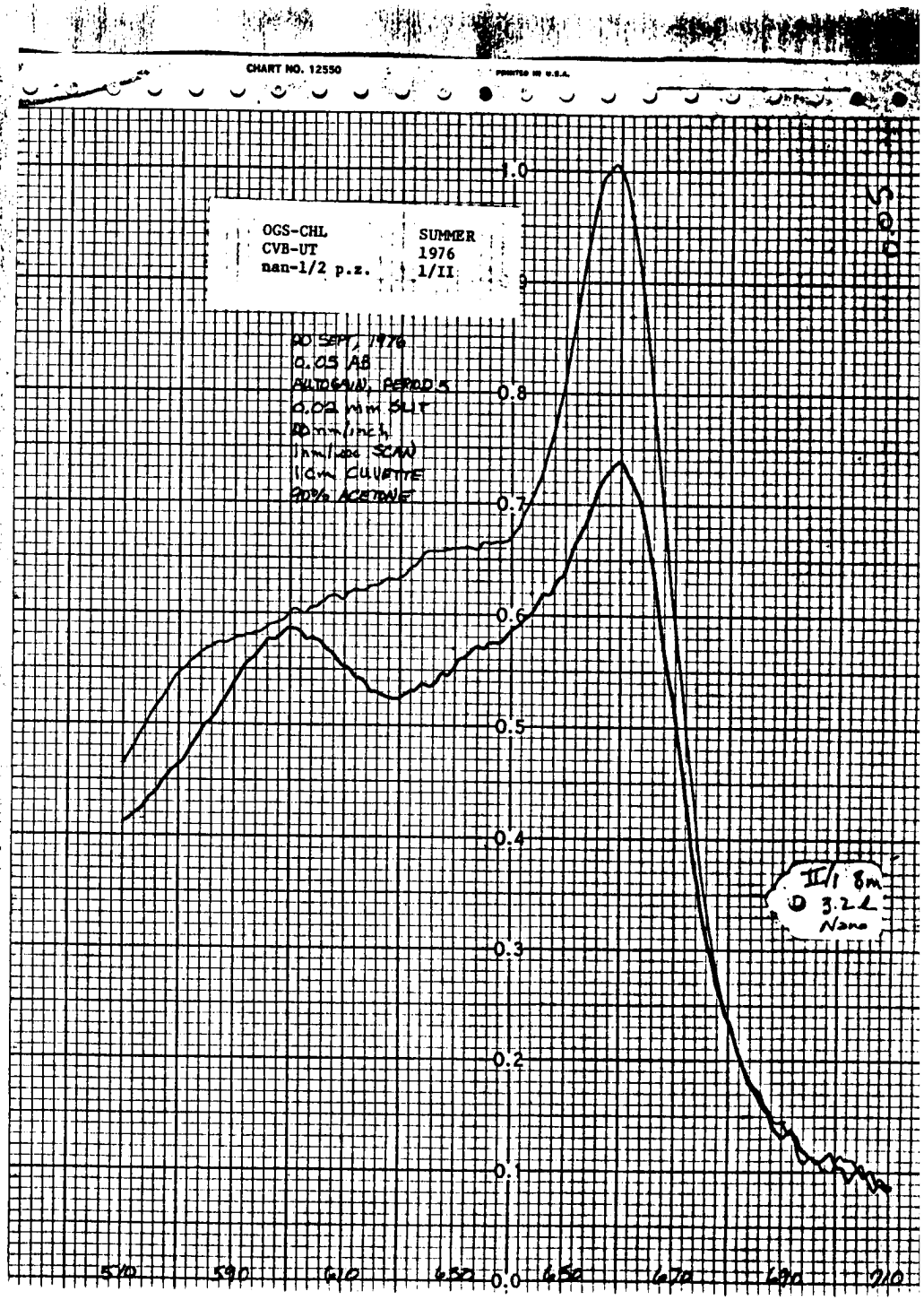
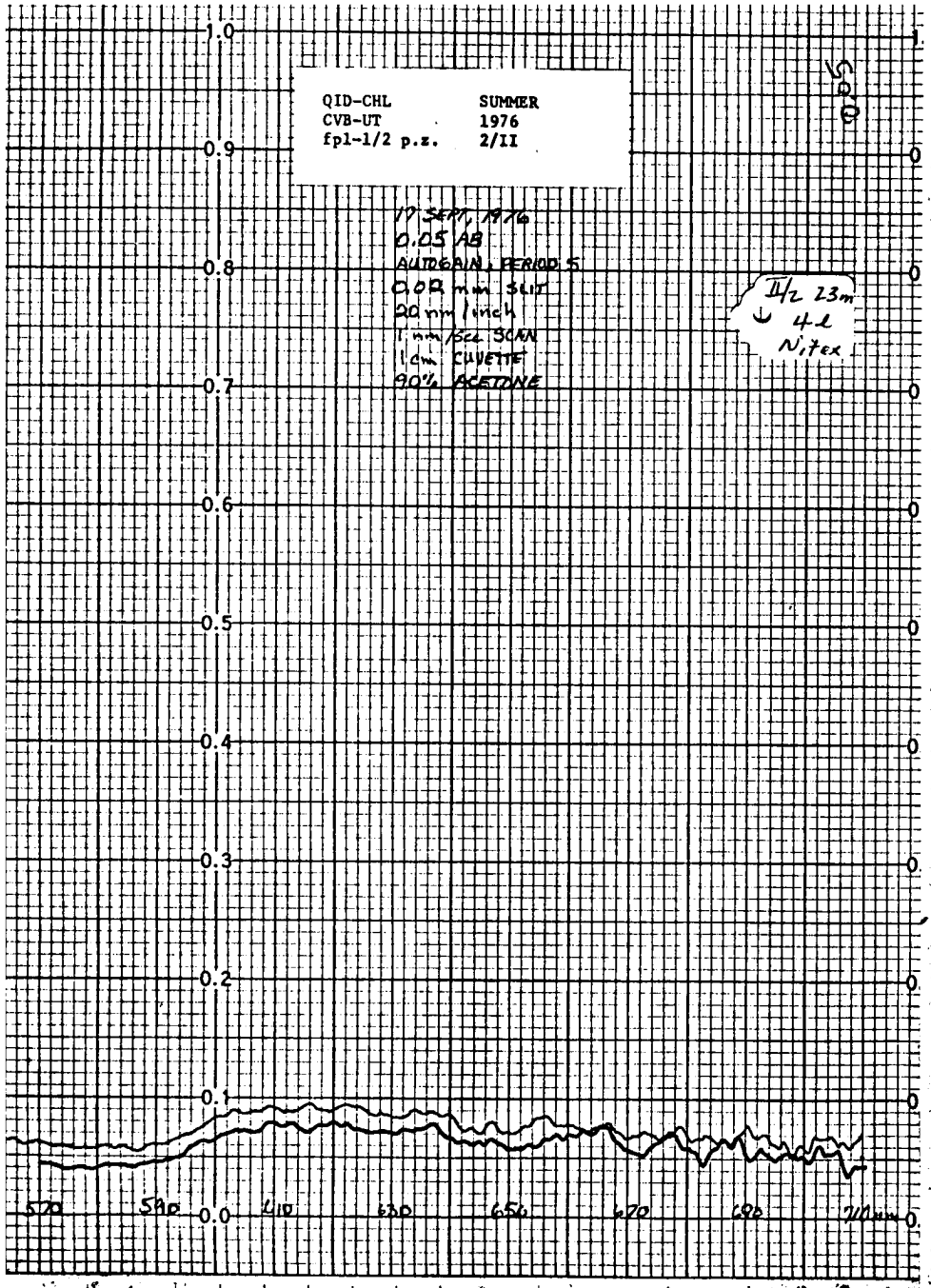


CHART NO. 12550




QID-CHL
CVB-UT
fpl-1/2 p.z.
SUMMER
1976
2/II
17 SEPT. 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.08 mm SLIT
20 nm/inch
1 mm/sec SCAN
1 cm CUVETTE
90% ACETONE
II/2 23m
4 l
N,1ex
Sep
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710nm

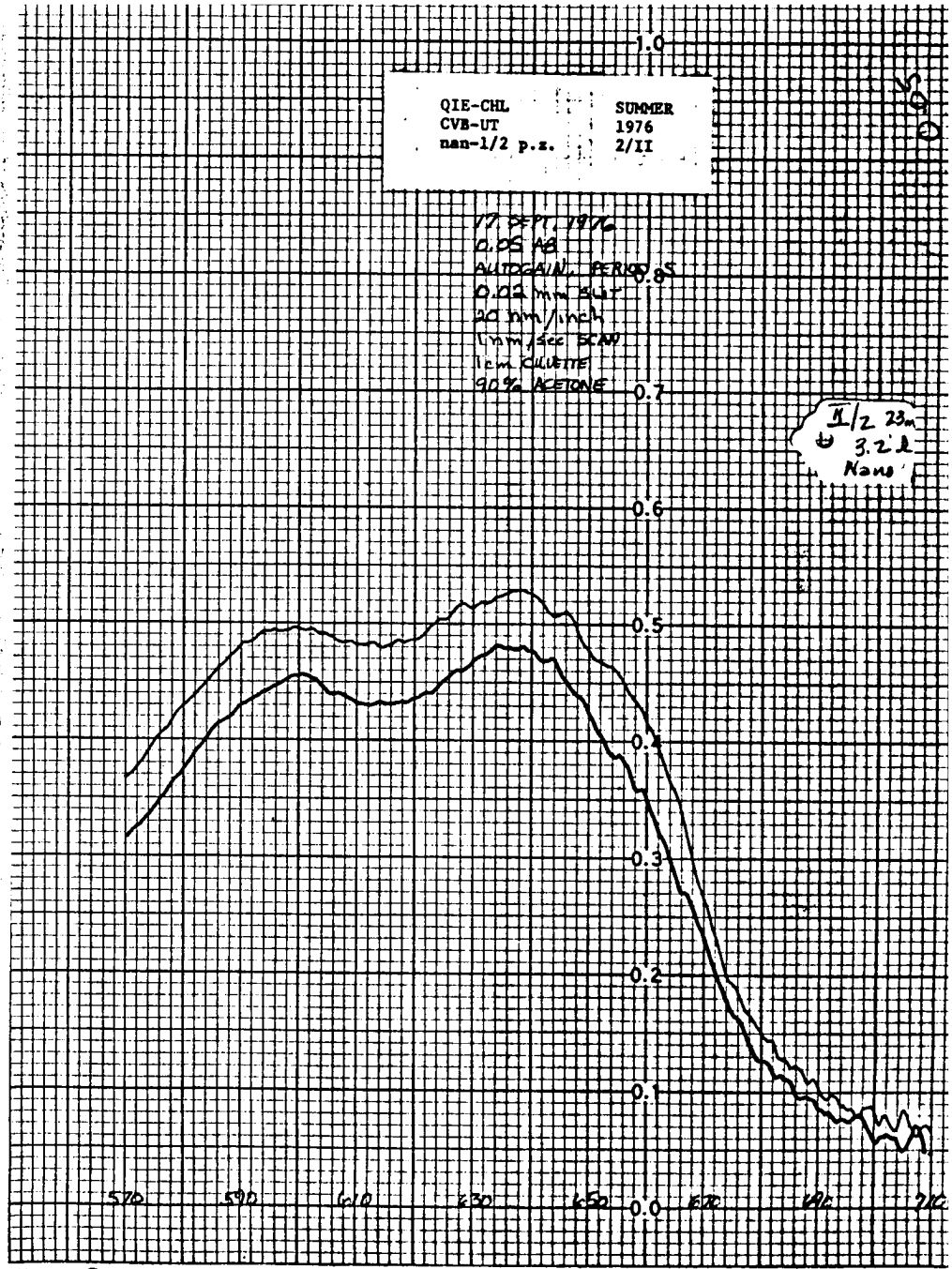

QIE-CHL
CVB-UT
nan-1/2 p.z.
SUMMER
1976
2/II
17 SEPT. 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 mm/sec SCAN
1 cm CUVETTE
90% ACETONE
II/2 23m
3.2 l
Nano
Sep
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650

CHART NO. 12550

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QIA-CHL
CVB-UT
fpl-surface

SUMMER
1976
2/II

17 SEPT, 1976
0.05 AB
AUTOGAIN PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE

II/2 1m
↓ 4 l
Nilox

1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0

500 590 610 630 650 670 690 710 nm

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cary instruments / a varian subsid

QIB-CHL
CVB-UT
nan-surface

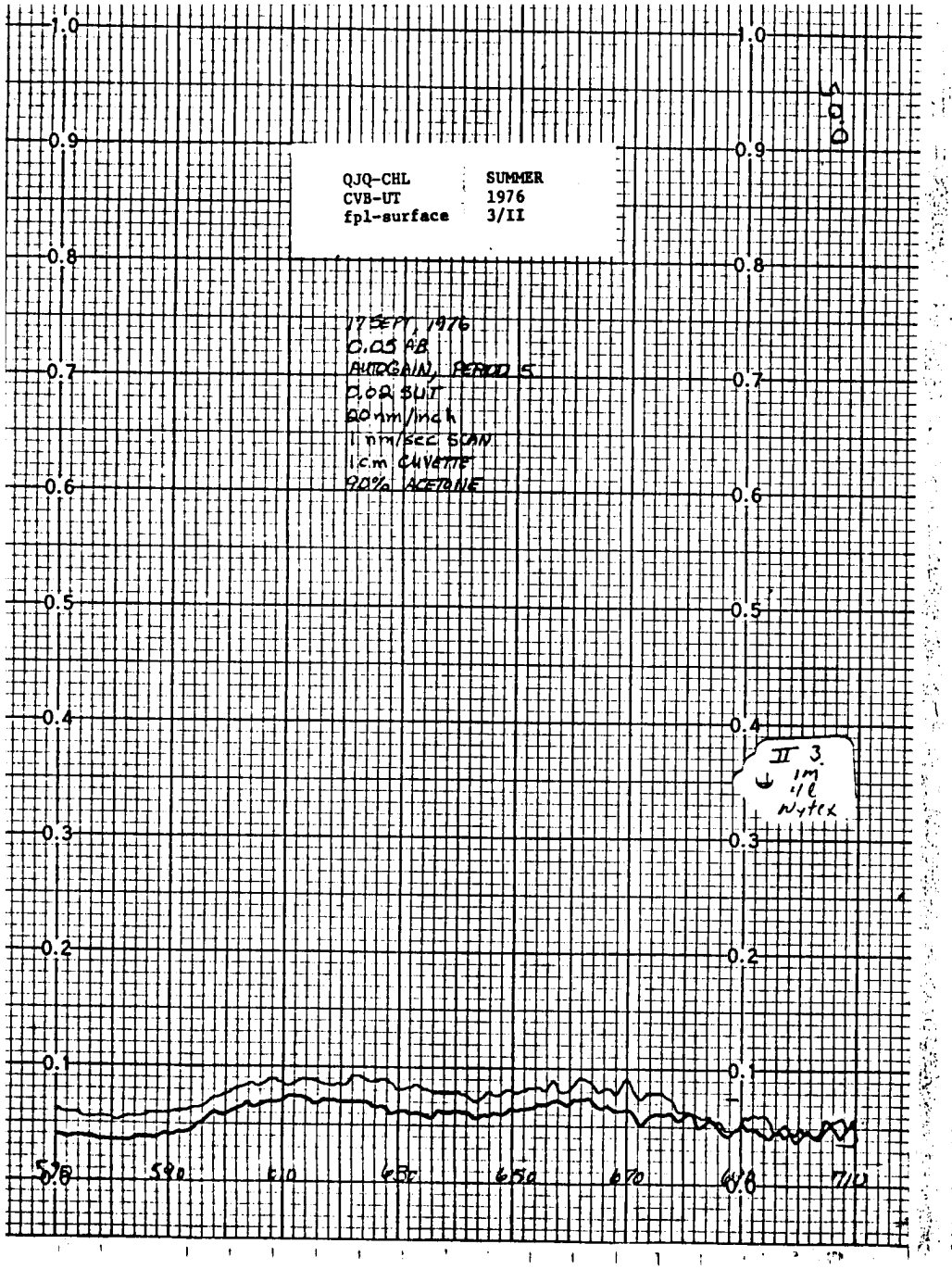
SUMMER
1976
2/II

17 SEPT, 1976
0.05 AB
AUTOGAIN PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE

II/2 1m
↓ 3.3 l
Nano

1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0

500 590 610 630 650 670 690 710 nm


QJQ-CHL SUMMER
CVB-UT 1976
fpl-surface 3/II
17 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE
II 3
1m
1l
Nytex
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
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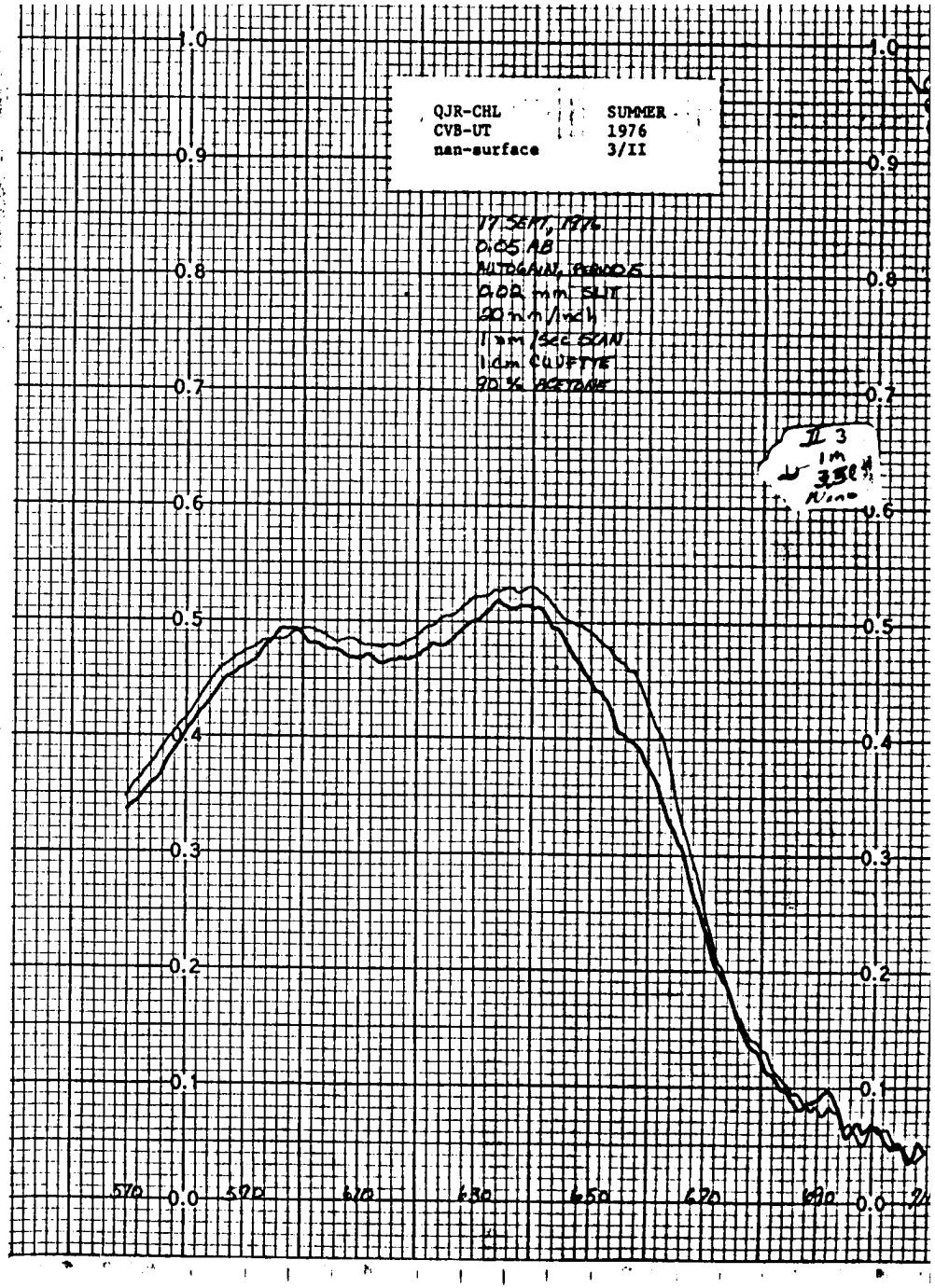
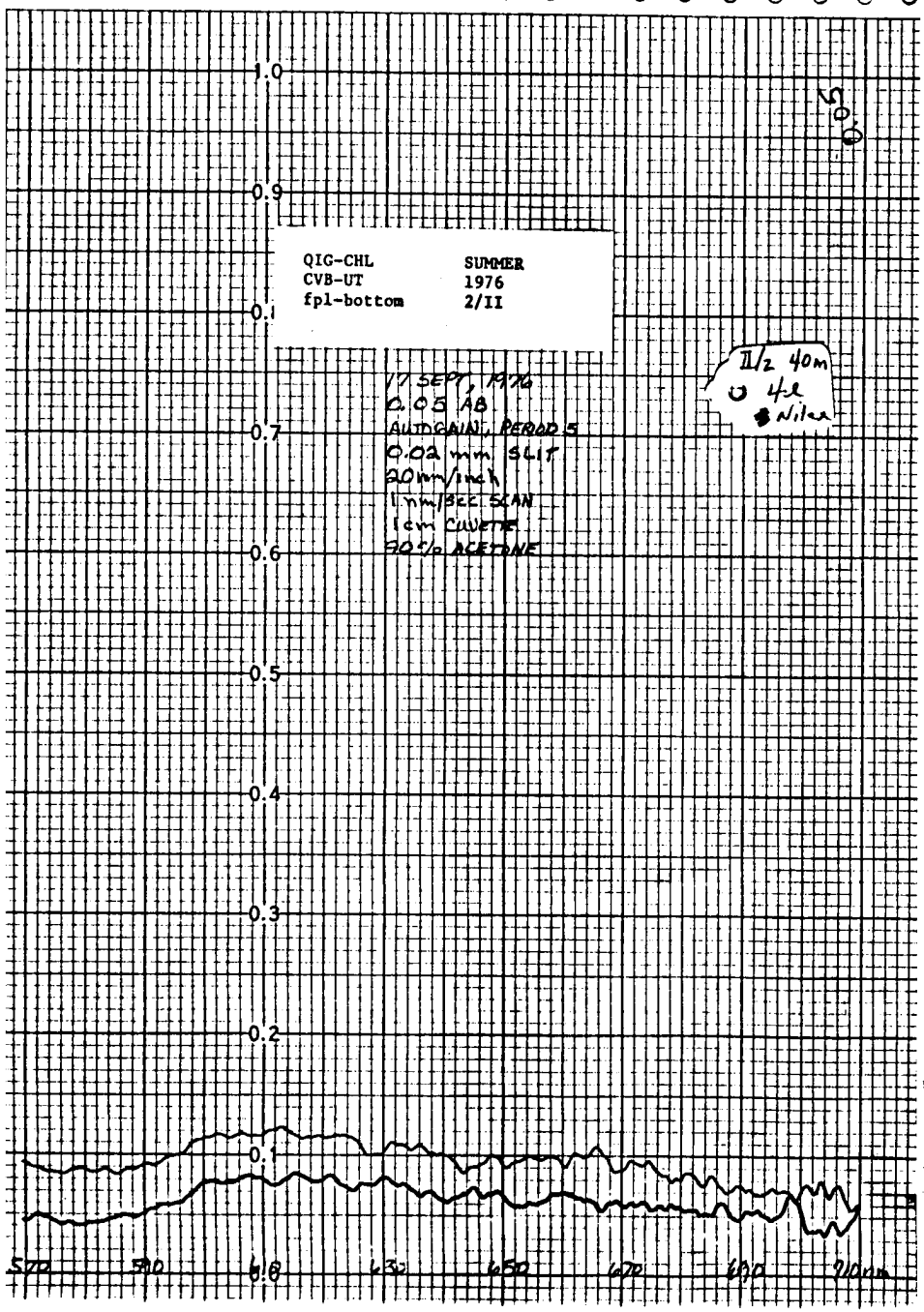
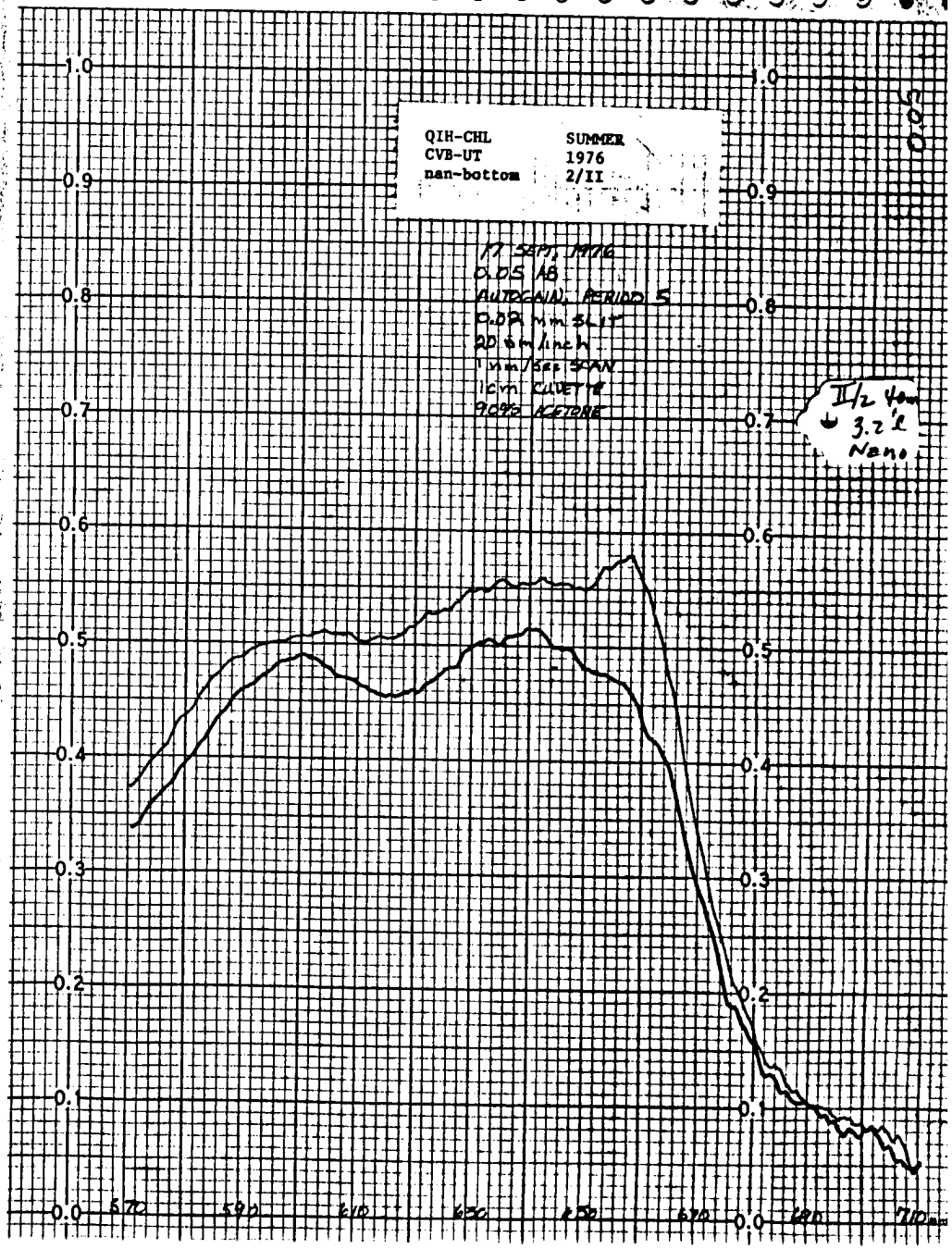
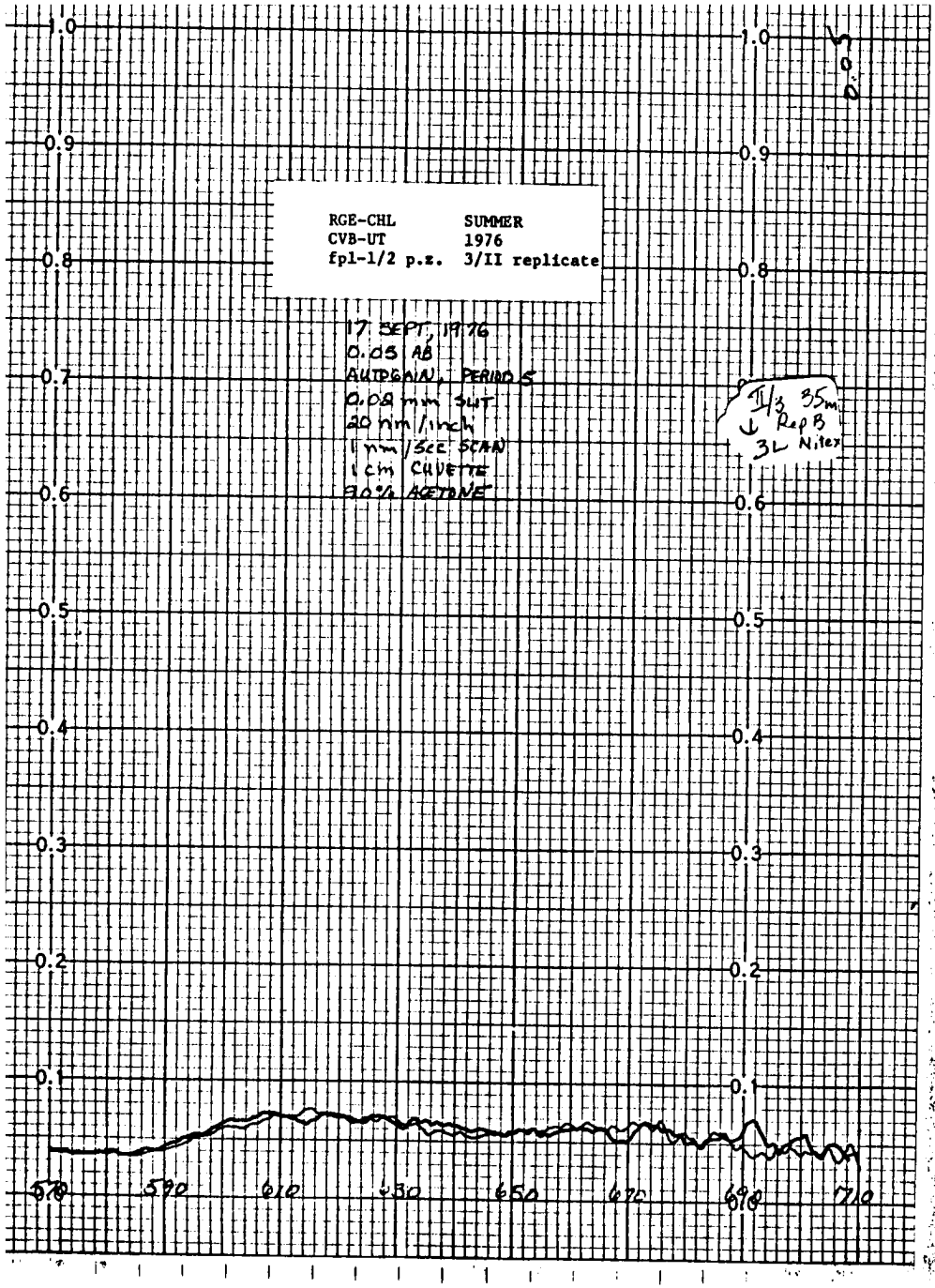
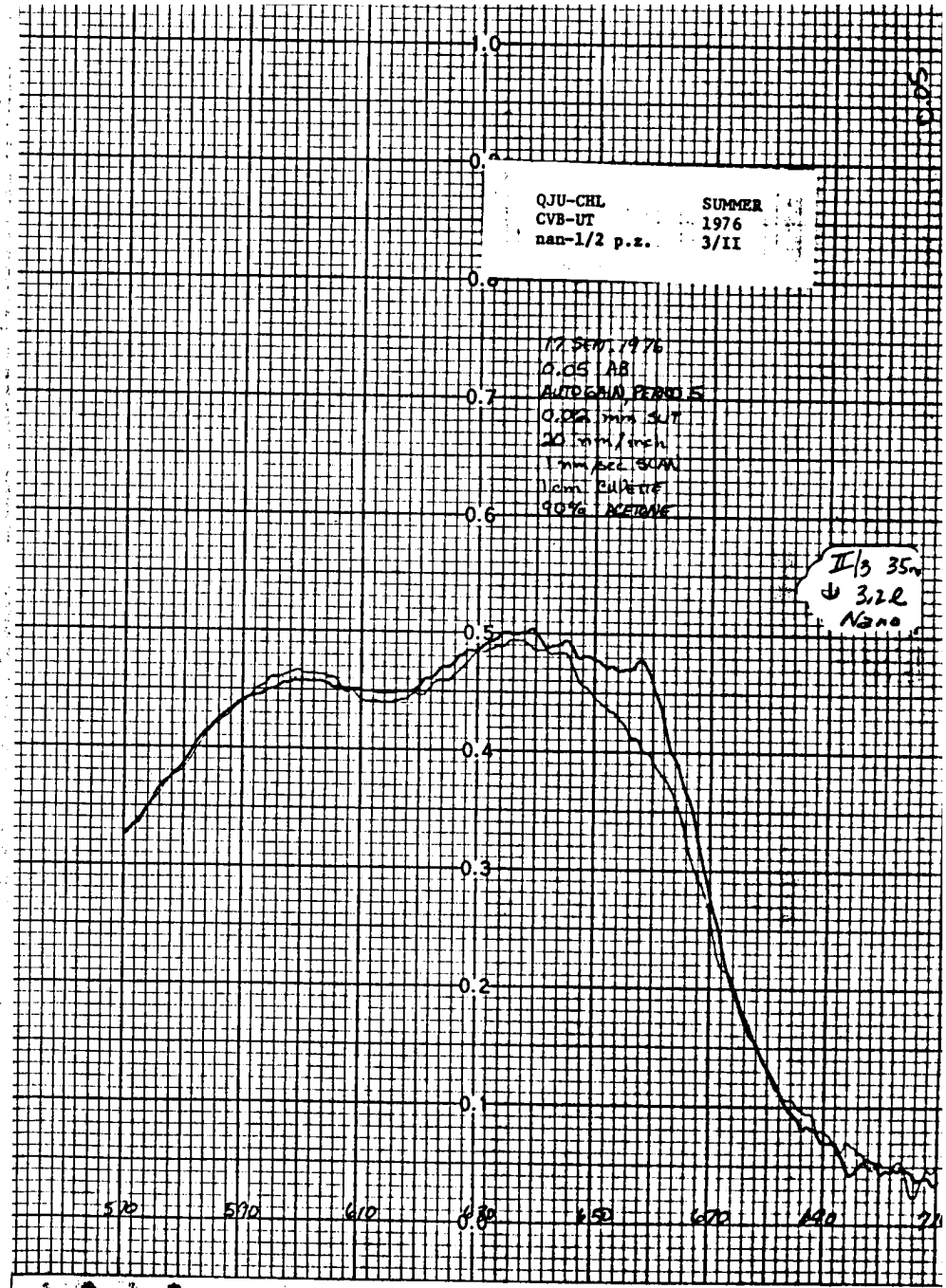
630
650
670
690
710


QJR-CHL SUMMER
CVB-UT 1976
nan-surface 3/II
17 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE
II 3
1m
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690


QIG-CHL SUMMER
CVB-UT 1976
fpl-bottom 2/II
17 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/SEC SCAN
1cm CUVETTE
90% ACETONE
II/2 40m
4l
Nile
570
590
610
630
650
670
690
710nm


QIH-CHL SUMMER
CVB-UT 1976
nan-bottom 2/II
17 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/SEC SCAN
1cm CUVETTE
90% ACETONE
II/2 40m
3.2l
Nano
570
590
610
630
650
670
690
710nm


RGE-CHL SUMMER
CVB-UT 1976
fpl-1/2 p.z. 3/II replicate
17 SEPT. 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 mm/SEC SCAN
1 cm CUVETTE
90% ACETONE
II/3 35m
↓ 3L
Rep B
Niter
O.D.
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710


QJU-CHL SUMMER
CVB-UT 1976
nan-1/2 p.z. 3/II
17 SEPT. 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 mm/sec SCAN
1 cm Cuvette
90% ACETONE
II/3 35m
↓ 3,2L
Nano
O.D.
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710

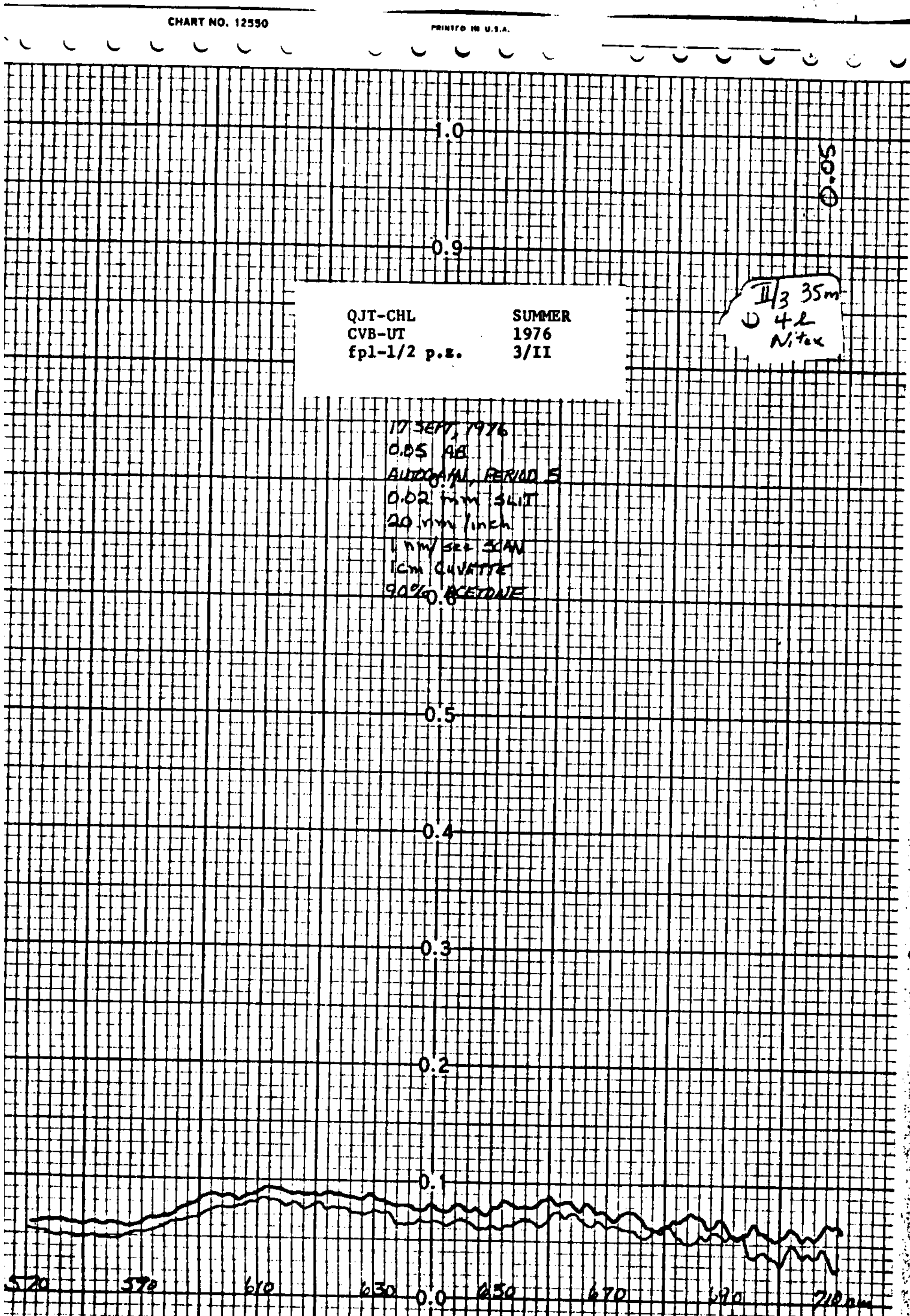
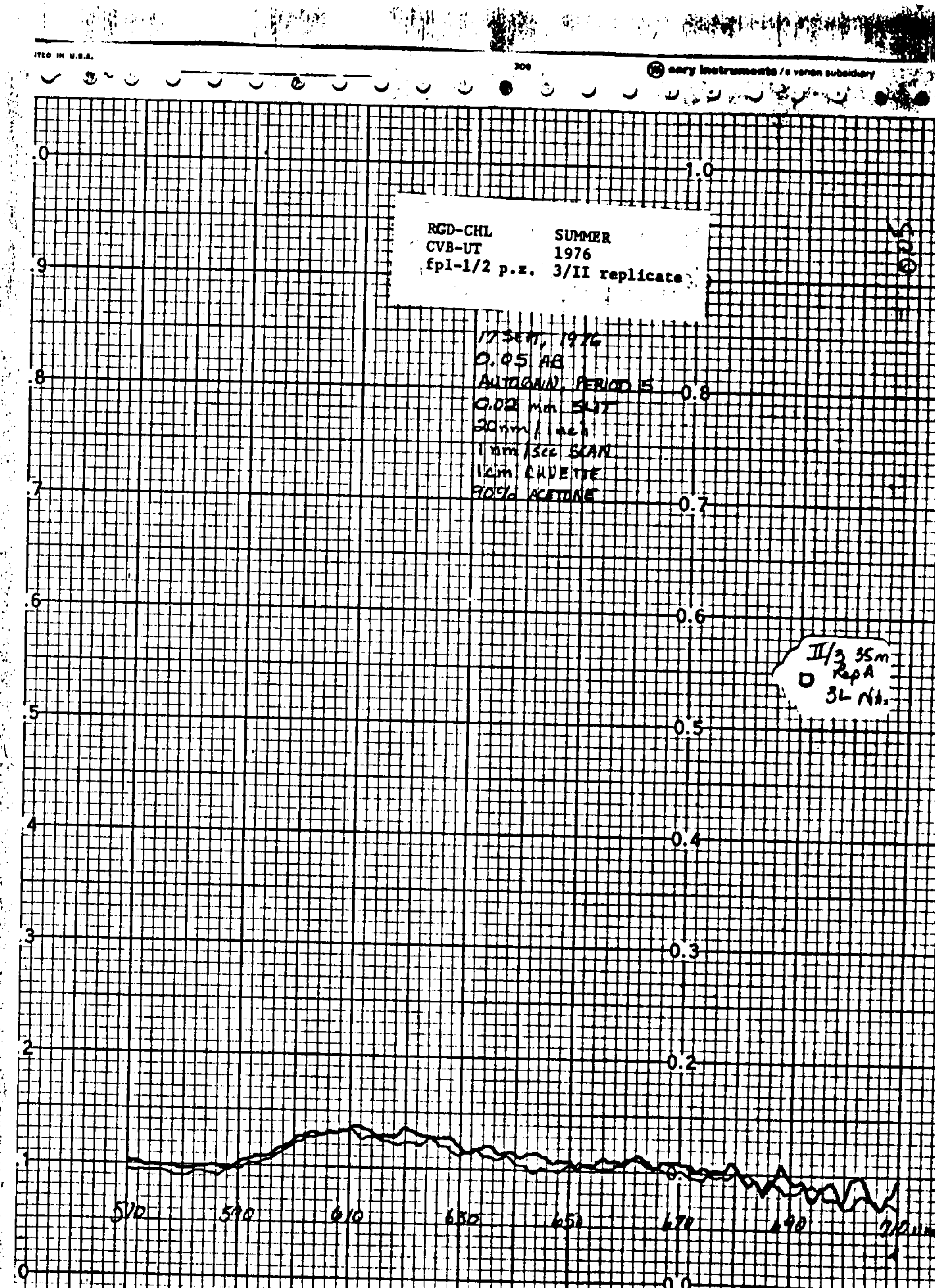
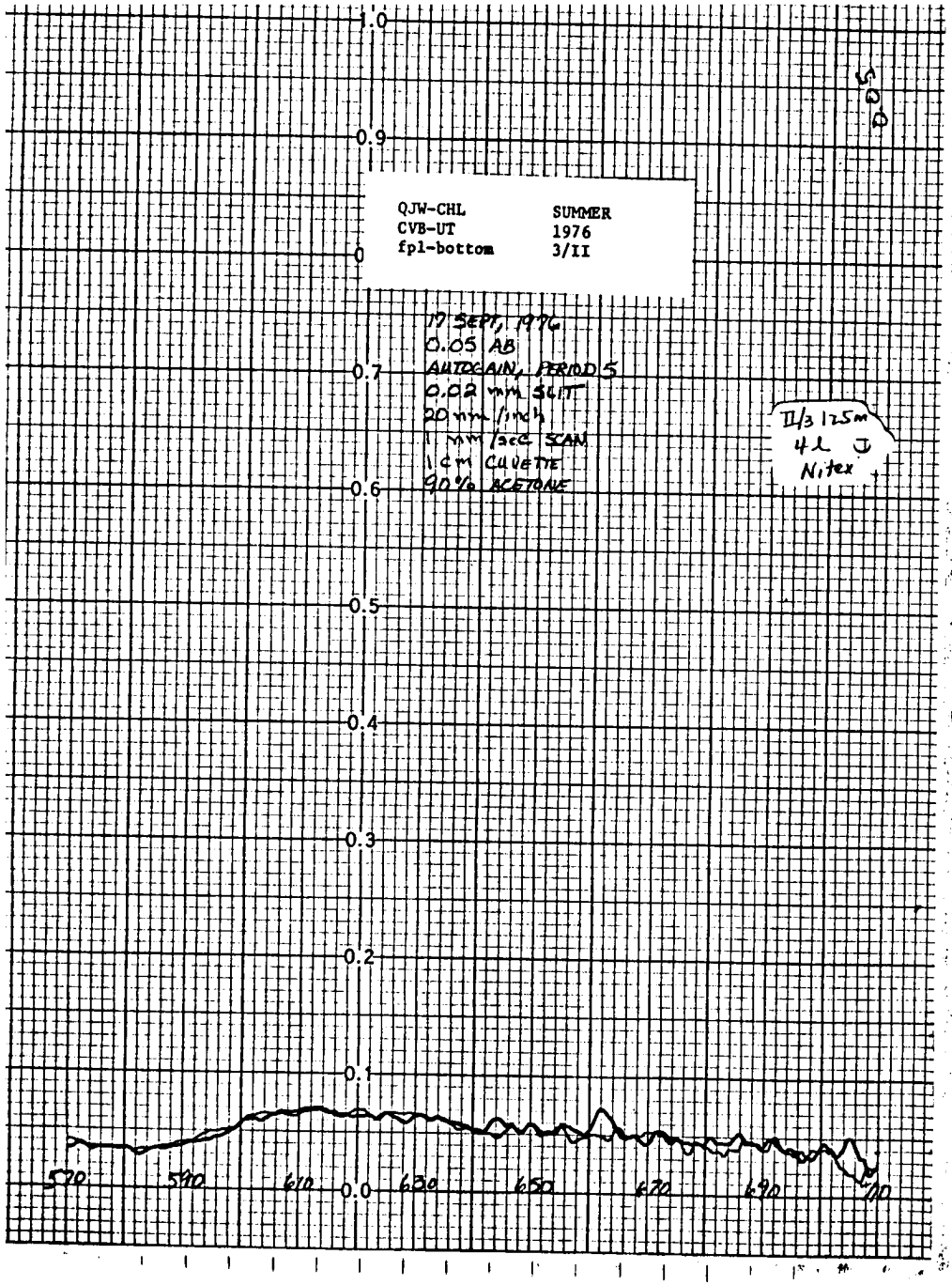
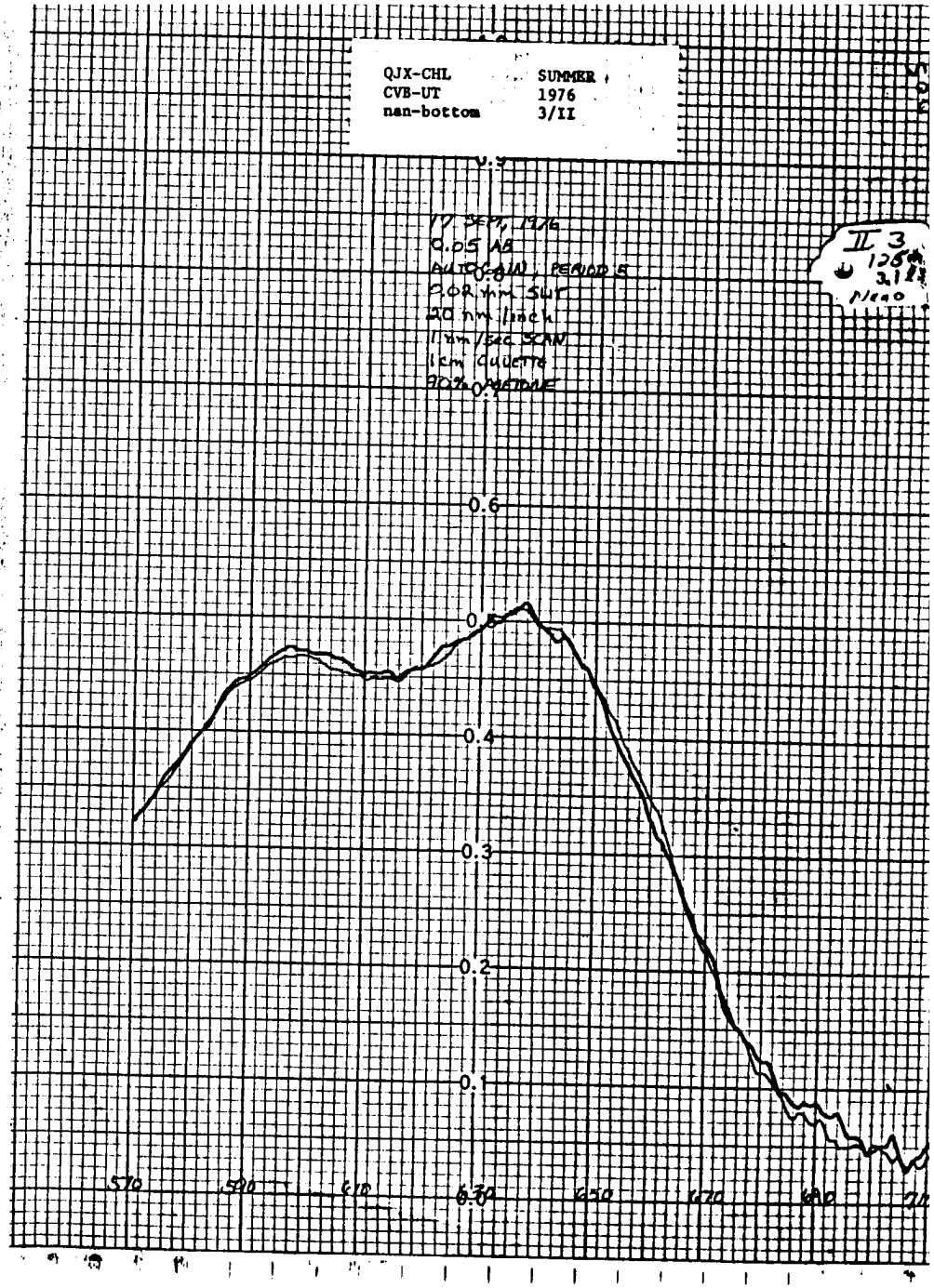
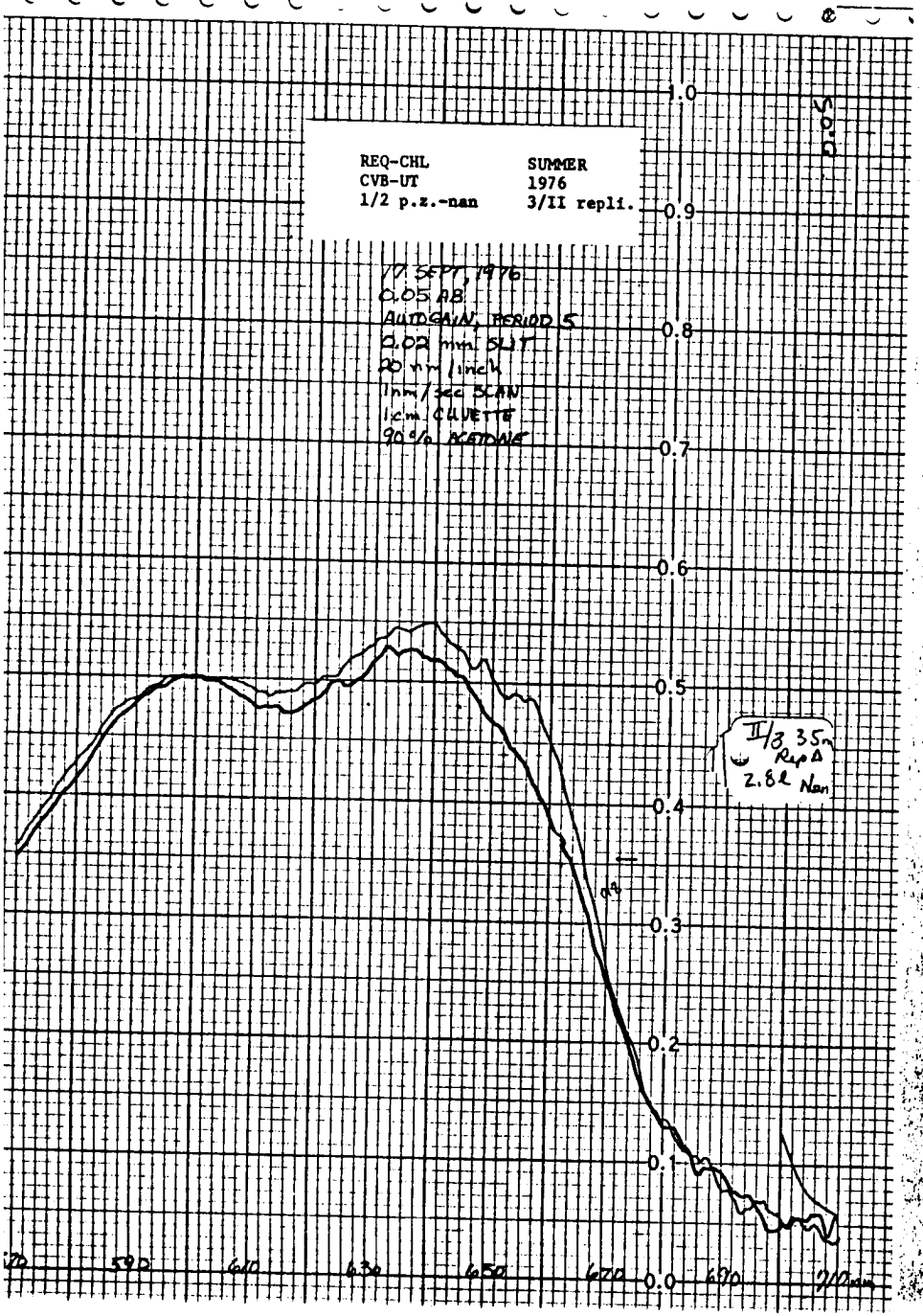


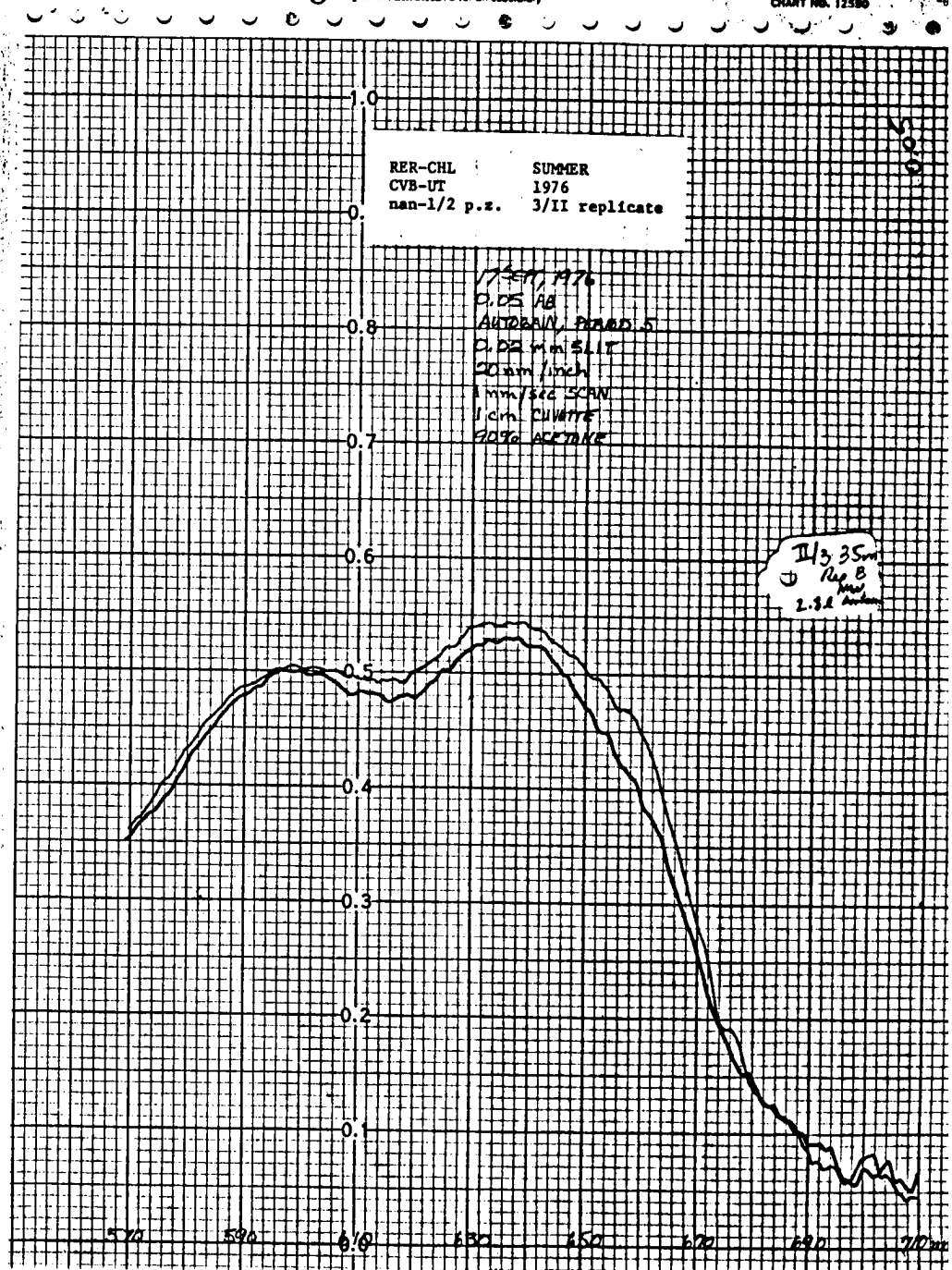
CHART NO. 12550
PRINTED IN U.S.A.
QJT-CHL SUMMER
CVB-UT 1976
fpl-1/2 p.z. 3/II
0.05
II/3 35m
4 l
Nitex
17 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1cm CUVETTE
90% ACETONE
1.0
0.9
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 nm

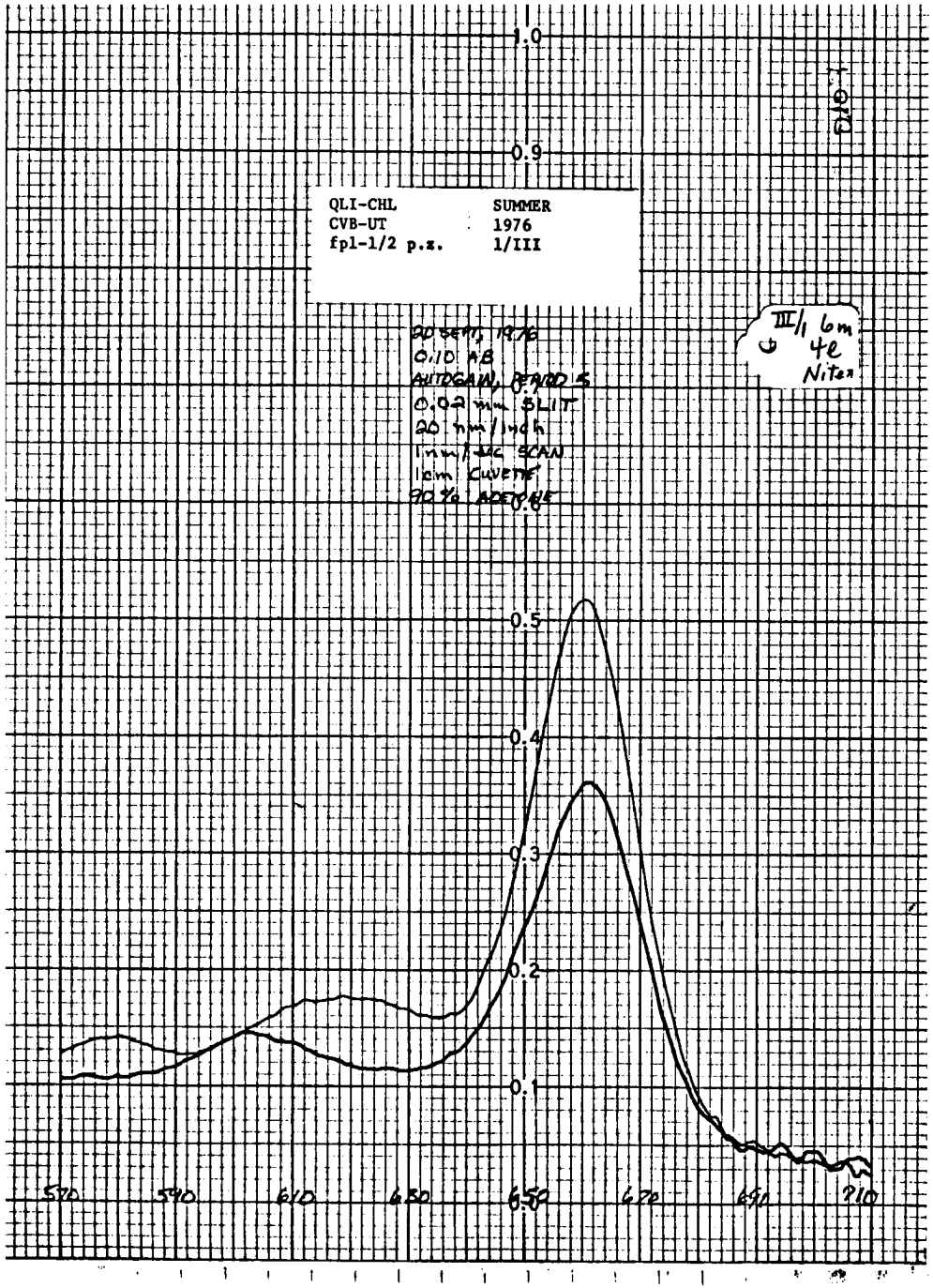

cary instruments / a varian subsidiary
RGD-CHL SUMMER
CVB-UT 1976
fpl-1/2 p.z. 3/II replicate
0.05
17 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1cm CUVETTE
90% ACETONE
II/3 35m
Rep A
3L Nit.
1.0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.0
510
590
610
630
650
670
690
710 nm

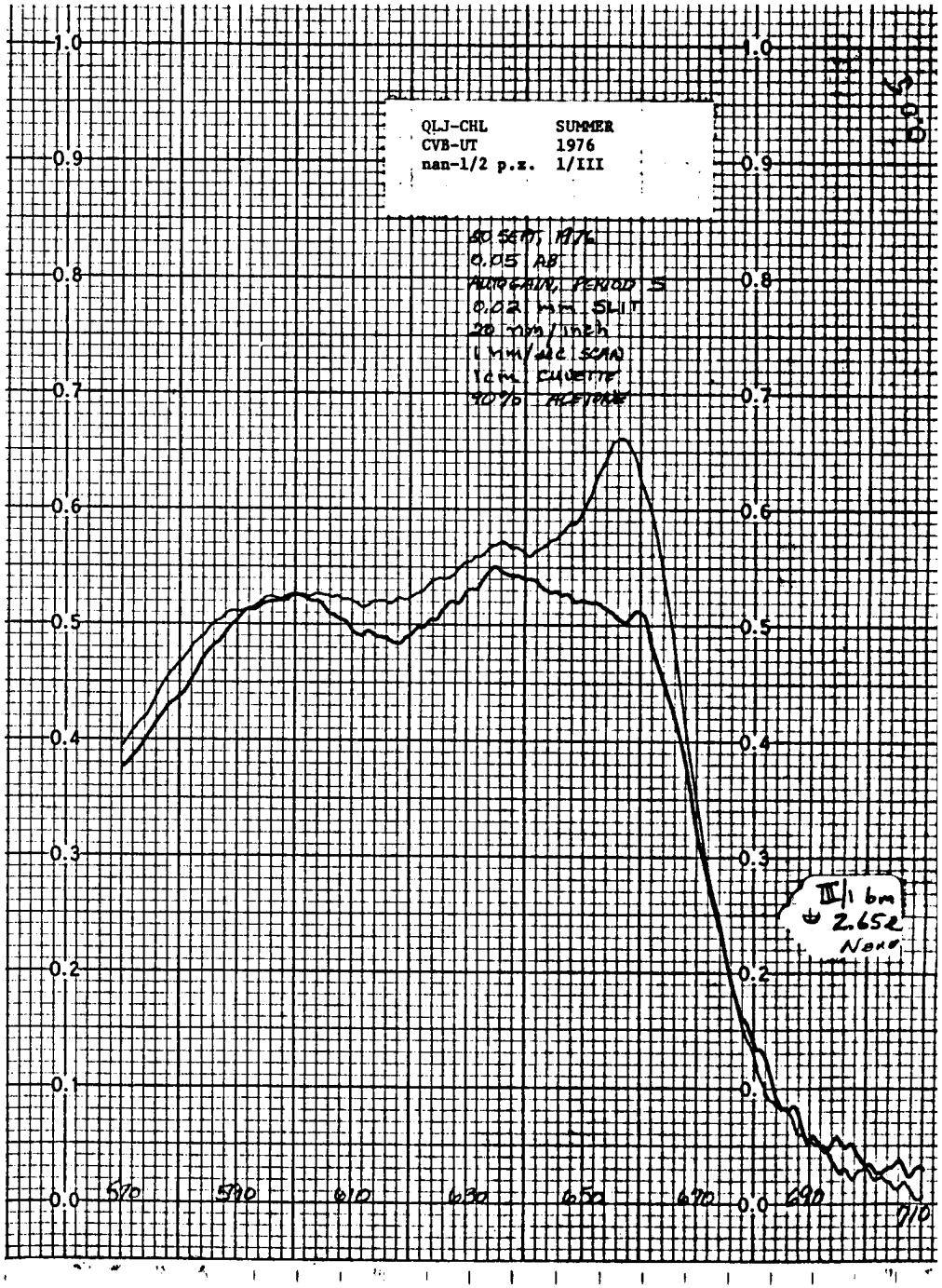

QJW-CHL SUMMER
CVB-UT 1976
fpl-bottom 3/II
17 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 mm/sec SCAN
1 cm CUVETTE
90% ACETONE
II/3 125m
42 J
Nitex
1.0
0.9
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710

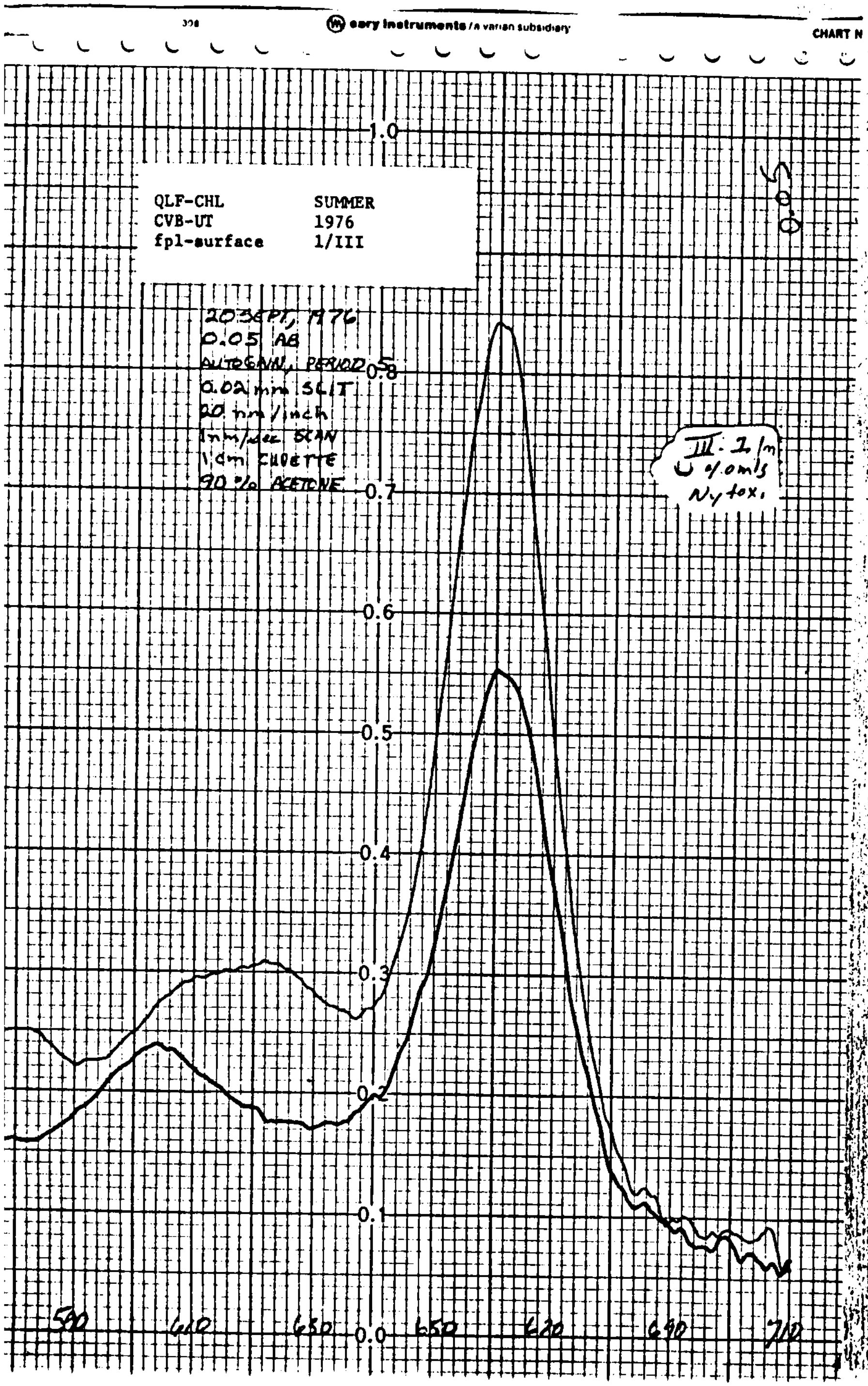

QJX-CHL SUMMER
CVB-UT 1976
nan-bottom 3/II
17 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 mm/sec SCAN
1 cm CUVETTE
90% ACETONE
II 3
125m
3,11
Nitex
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710

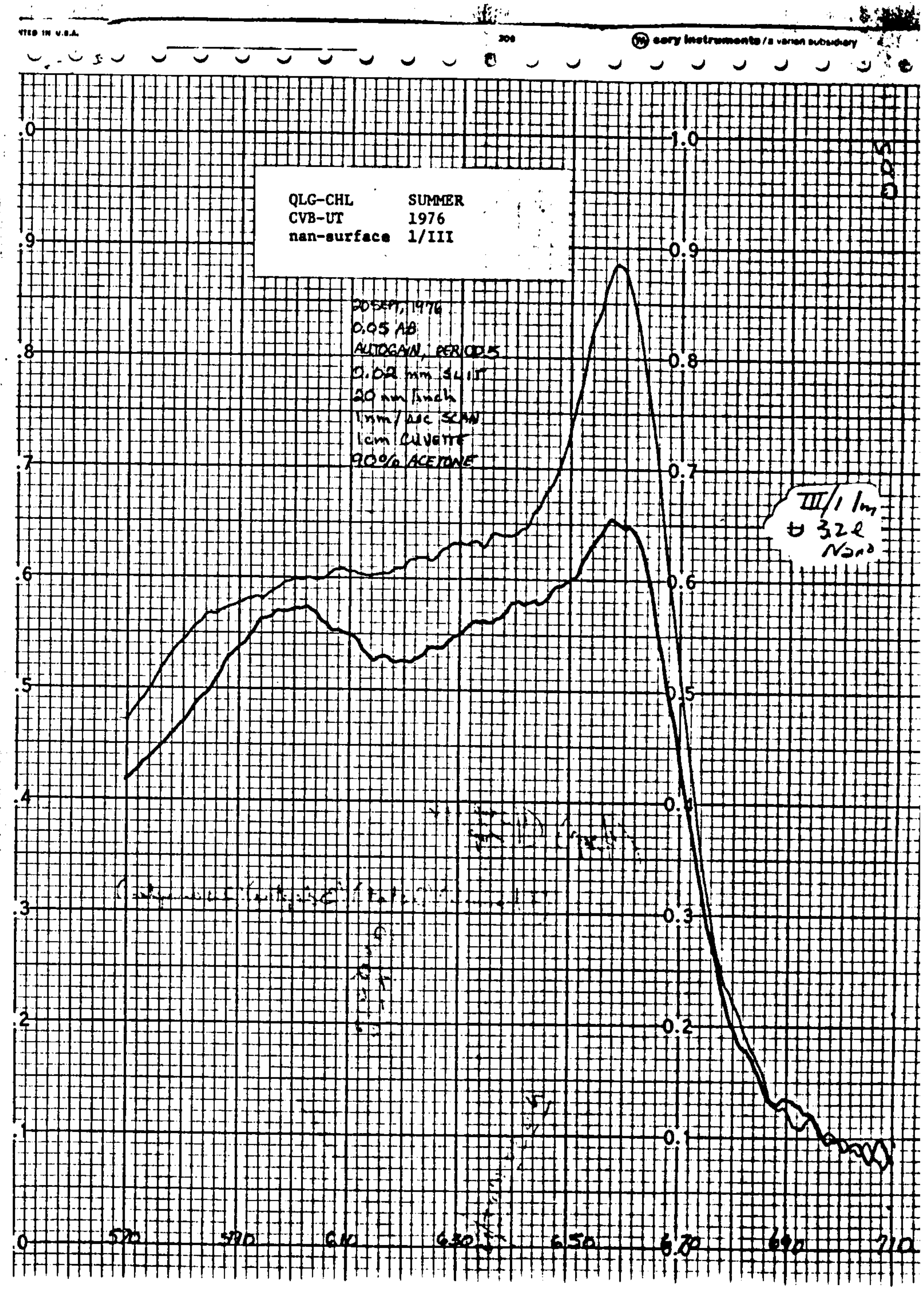

REQ-CHL SUMMER
CVB-UT 1976
1/2 p.z.-nan 3/II repli.
17 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1nm/sec SCAN
1cm CUVETTE
90% ACETONE
II/3 35m Rep A 2.8L Nan
O.D.
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
610
630
650
670
690
710mμ

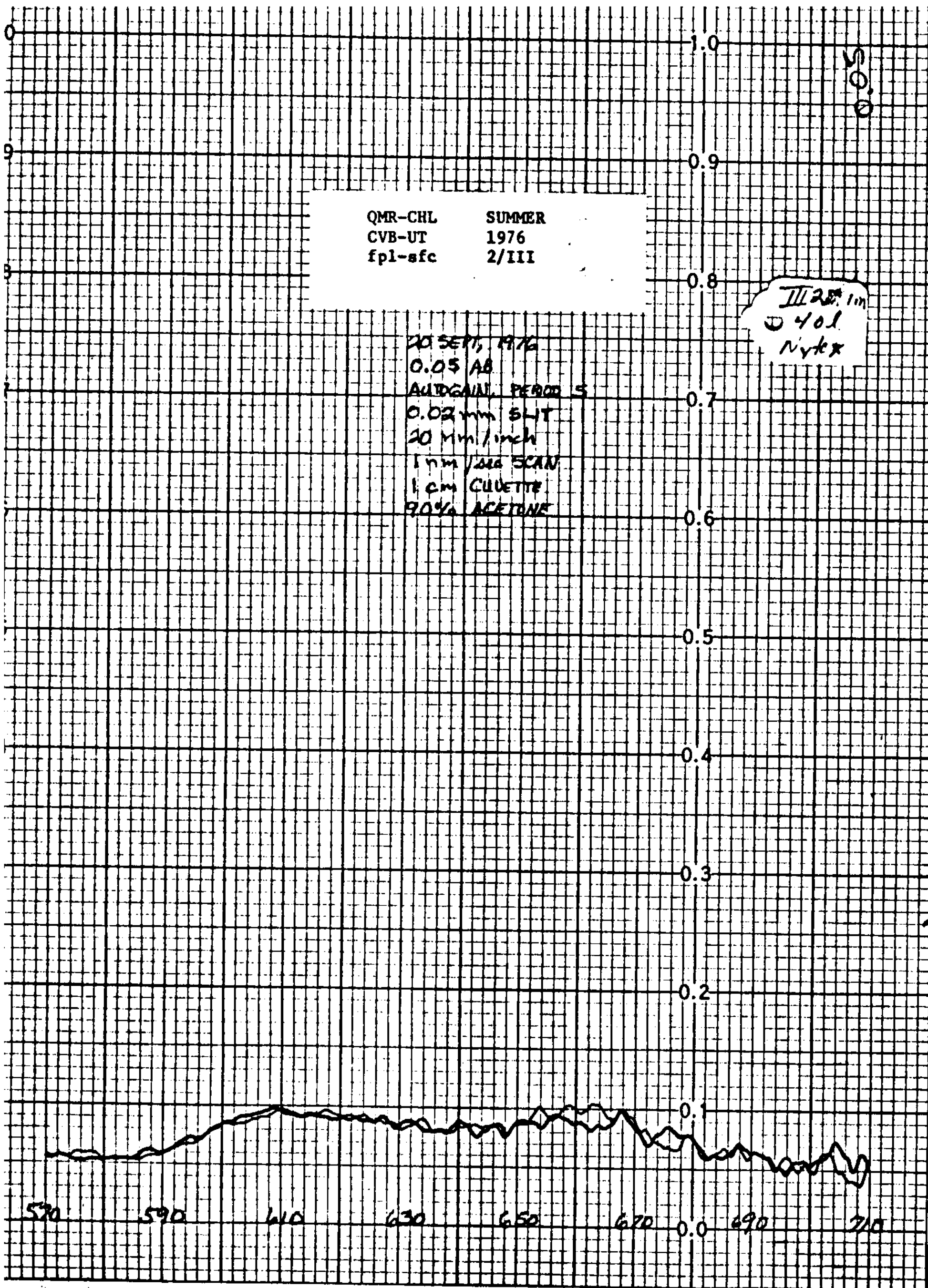

RER-CHL SUMMER
CVB-UT 1976
nan-1/2 p.z. 3/II replicate
17 SEP, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 mm/sec SCAN
1 cm CUVETTE
90% ACETONE
II/3 35m Rep B 2.3L
O.D.
1.0
0.8
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
630
650
670
690
710mμ

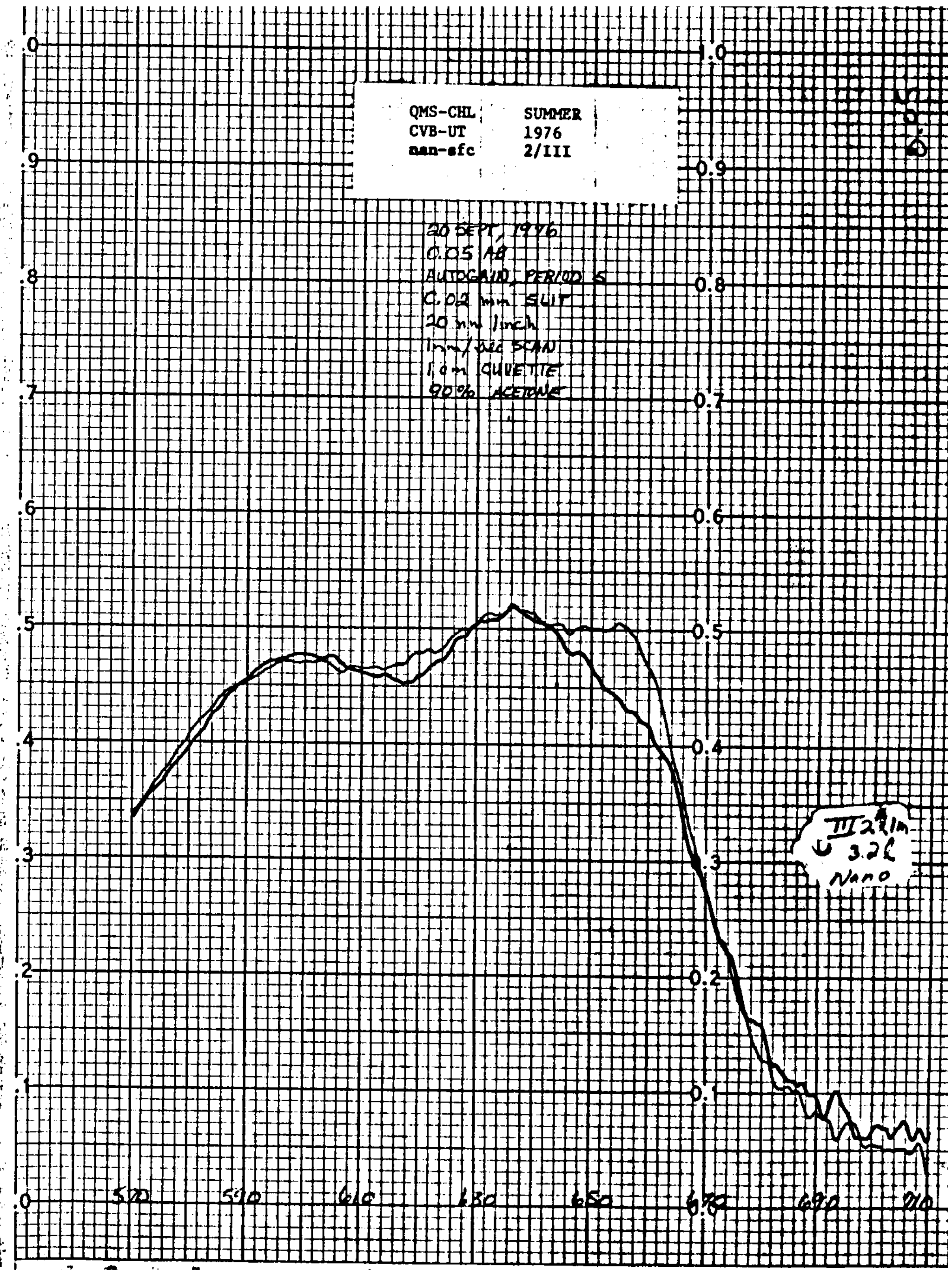

QLI-CHL SUMMER
CVB-UT 1976
fpl-1/2 p.z. 1/III
20 SEPT, 1976
0.10 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1mm/sec SCAN
1cm CUVETTE
90% ADEQUATE
III/1 6m
4e
Niter
570
590
610
630
650
670
690
710

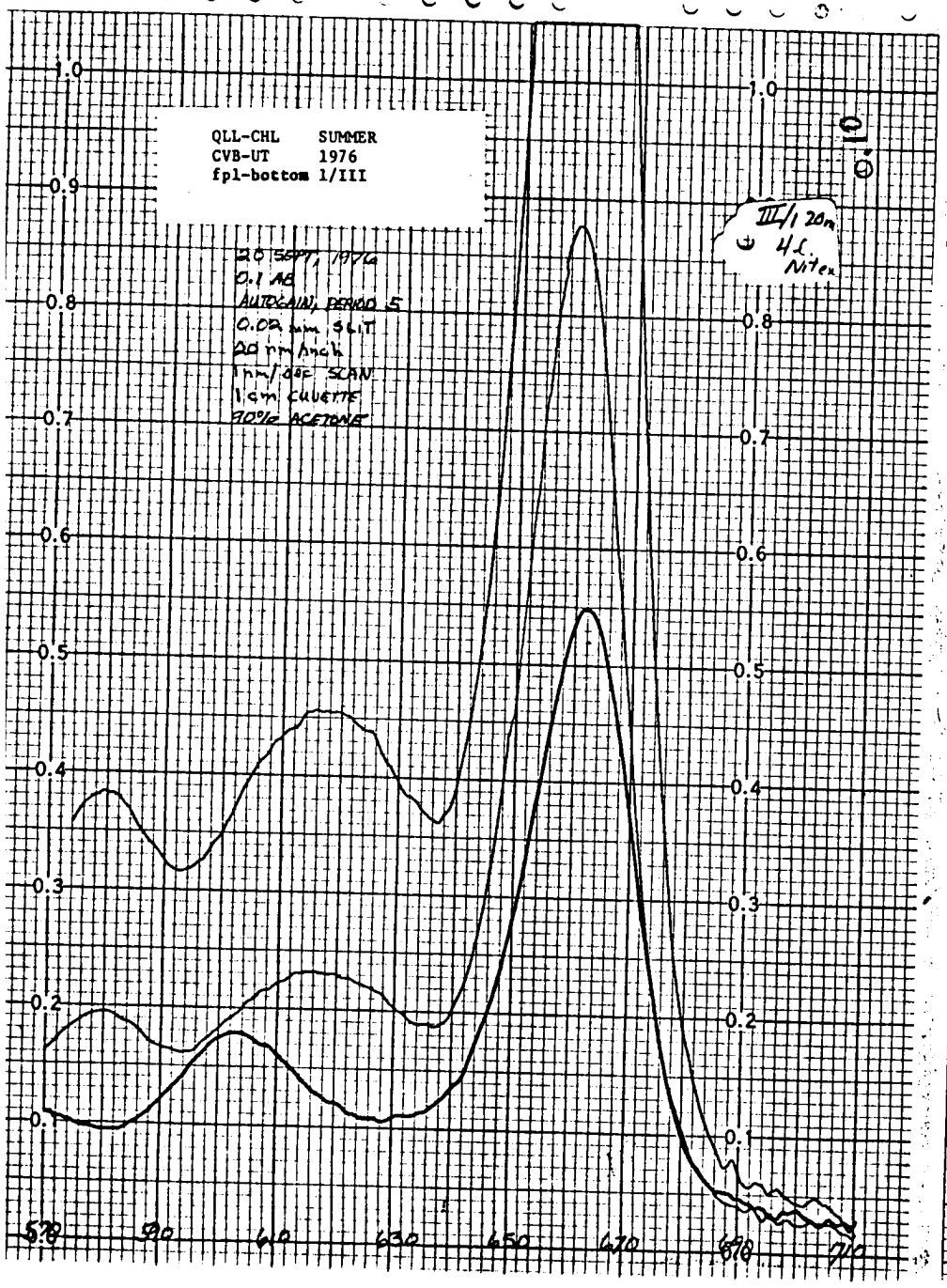

QLJ-CHL SUMMER
CVB-UT 1976
nan-1/2 p.z. 1/III
20 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1mm/sec SCAN
1cm CUVETTE
90% ADEQUATE
III/1 6m
2.65e
Nero
570
590
610
630
650
670
690
710

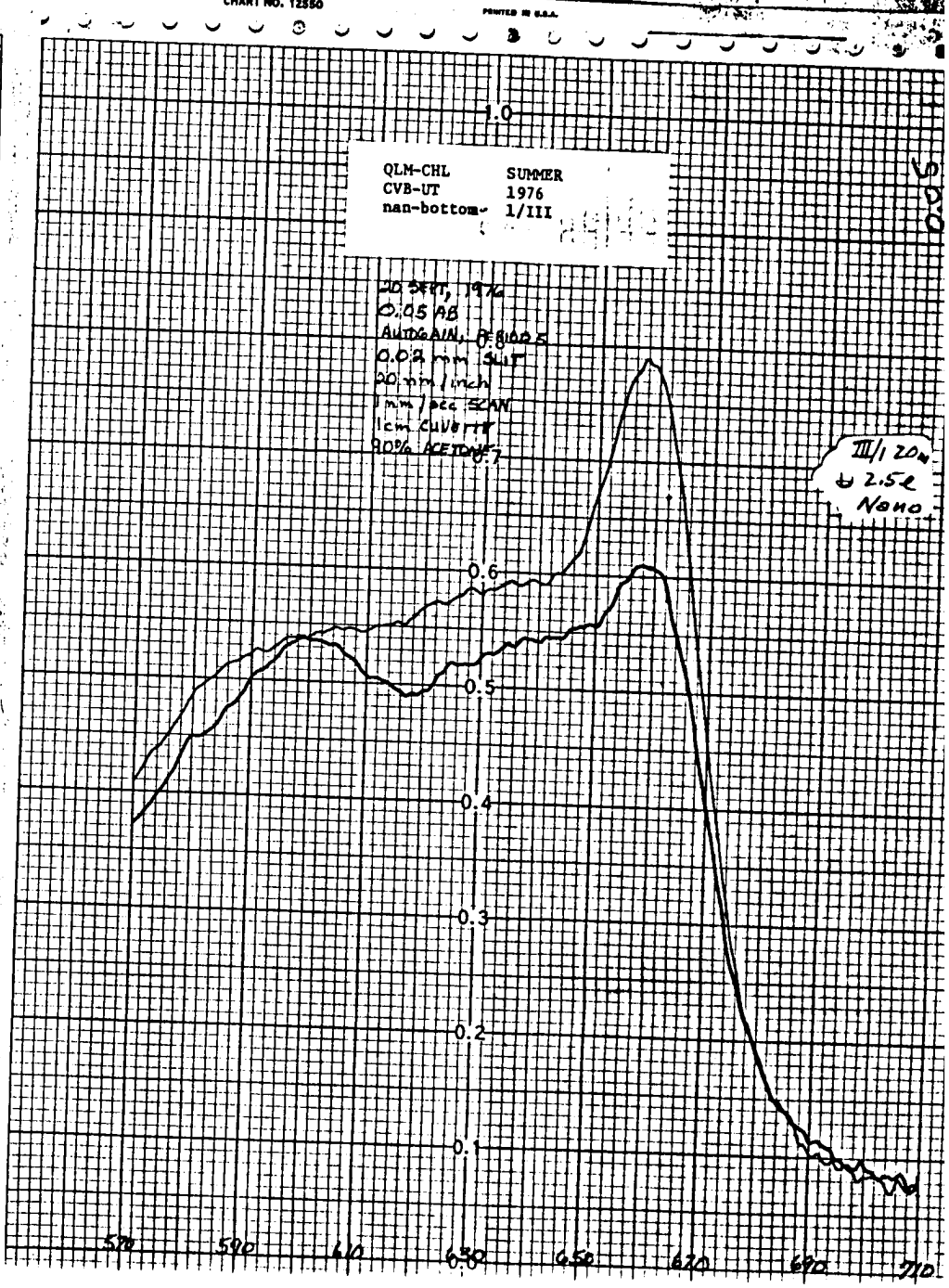

cary instruments / a varian subsidiary
QLF-CHL SUMMER
CVB-UT 1976
fpl-surface 1/III
20 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1nm/sec SCAN
1cm CUVETTE
90% ACETONE
1.0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
610
630
650
670
690
710

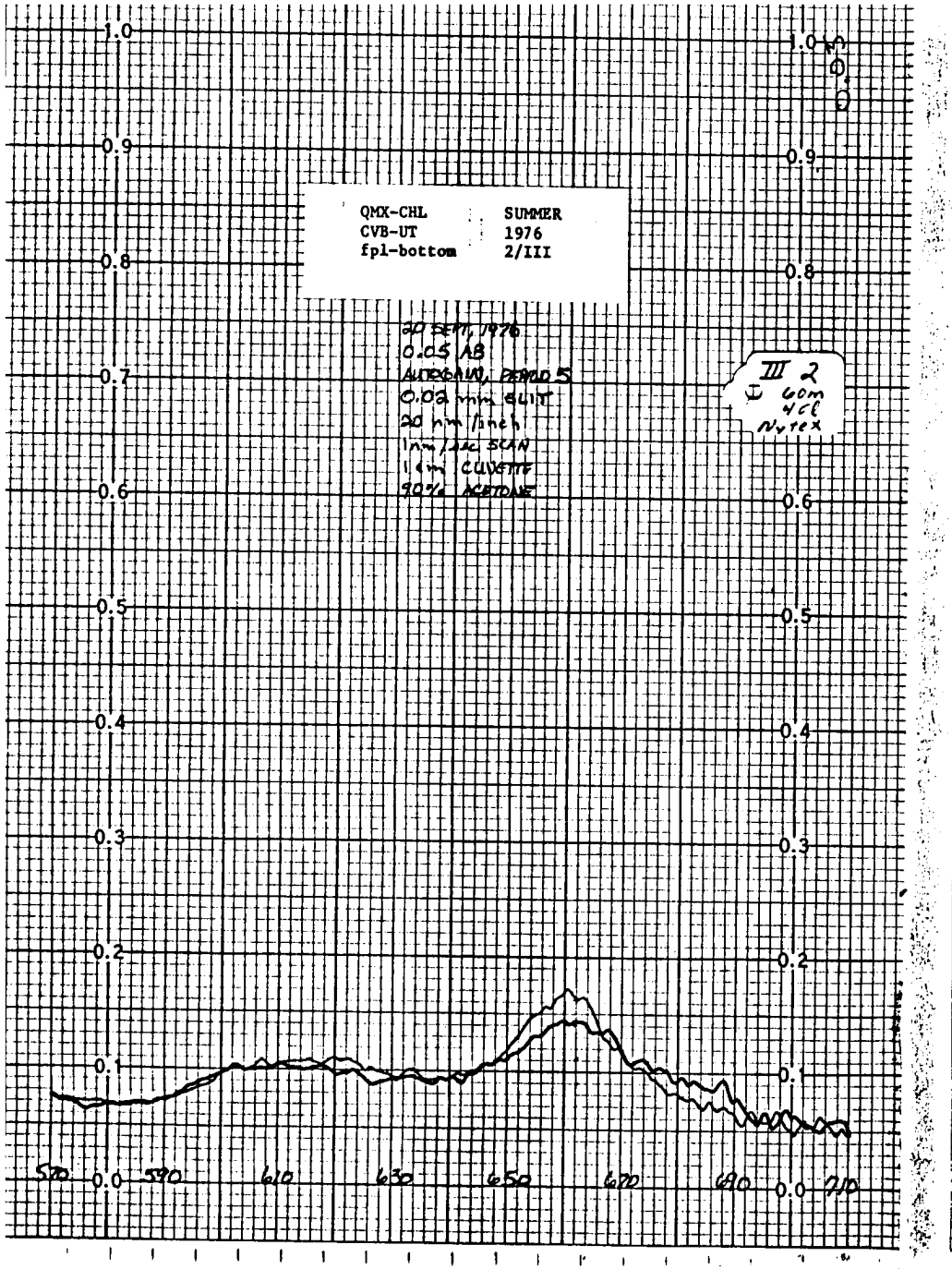

cary instruments / a varian subsidiary
QLG-CHL SUMMER
CVB-UT 1976
nan-surface 1/III
20 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1nm/sec SCAN
1cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
570
590
610
630
650
670
690
710

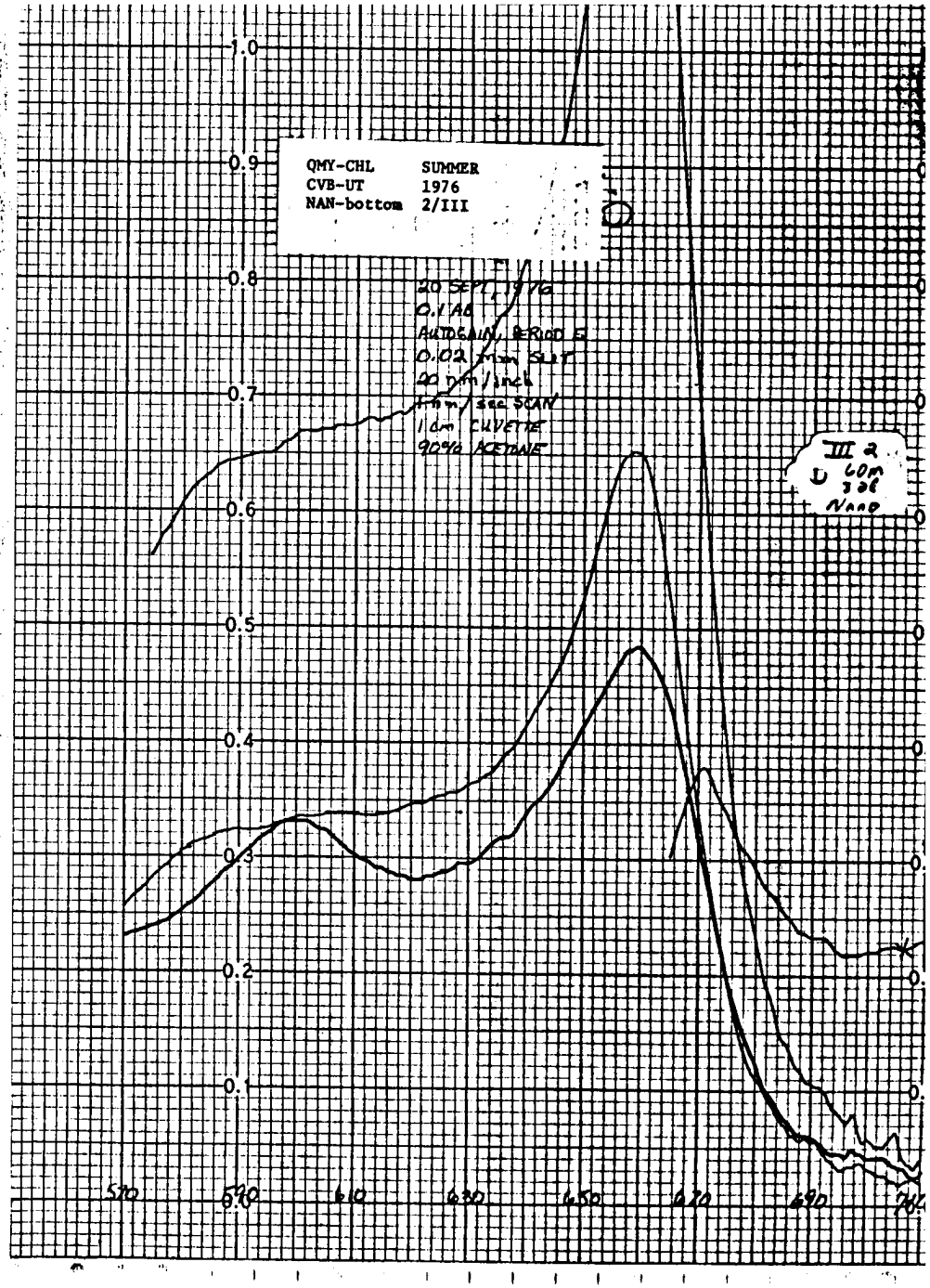

QMR-CHL SUMMER
CVB-UT 1976
fpl-sfc 2/III
20 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE
Nytex
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710


QMS-CHL SUMMER
CVB-UT 1976
nan-sfc 2/III
20 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE
Nano
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
570
590
610
630
650
670
690
710


QLL-CHL SUMMER
CVB-UT 1976
fpl-bottom 1/III
20 SEPT, 1976
0.1 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 mm/sec SCAN
1 cm CUVETTE
90% ACETONE
III/1 20m
4 L.
Niter
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710


QLM-CHL SUMMER
CVB-UT 1976
nan-bottom- 1/III
20 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 mm/sec SCAN
1 cm CUVETTE
90% ACETONE
III/1 20m
2.5 L
Nano
1.0
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710


QMX-CHL SUMMER
CVB-UT 1976
fpl-bottom 2/III
20 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1mm/sec SCAN
1 cm CUVETTE
90% ACETONE
III 2
D 60m
4Cl
Nytex
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
510
590
610
630
650
670
690
710


QMY-CHL SUMMER
CVB-UT 1976
NAN-bottom 2/III
20 SEPT, 1976
0.1 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1mm/sec SCAN
1 cm CUVETTE
90% ACETONE
III 2
D 60m
3Cl
Nano
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
510
590
610
630
650
670
690

cary instruments / a varian subsidiary

CHART NO. 12550

QMU-CHL SUMMER
CVB-UT 1976
fpl-1/2 p.s. 2/III

30 SEPT. 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.04 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE

III 2
24m
4L
Nytex

1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
500 590 610 630 650 670 690 710

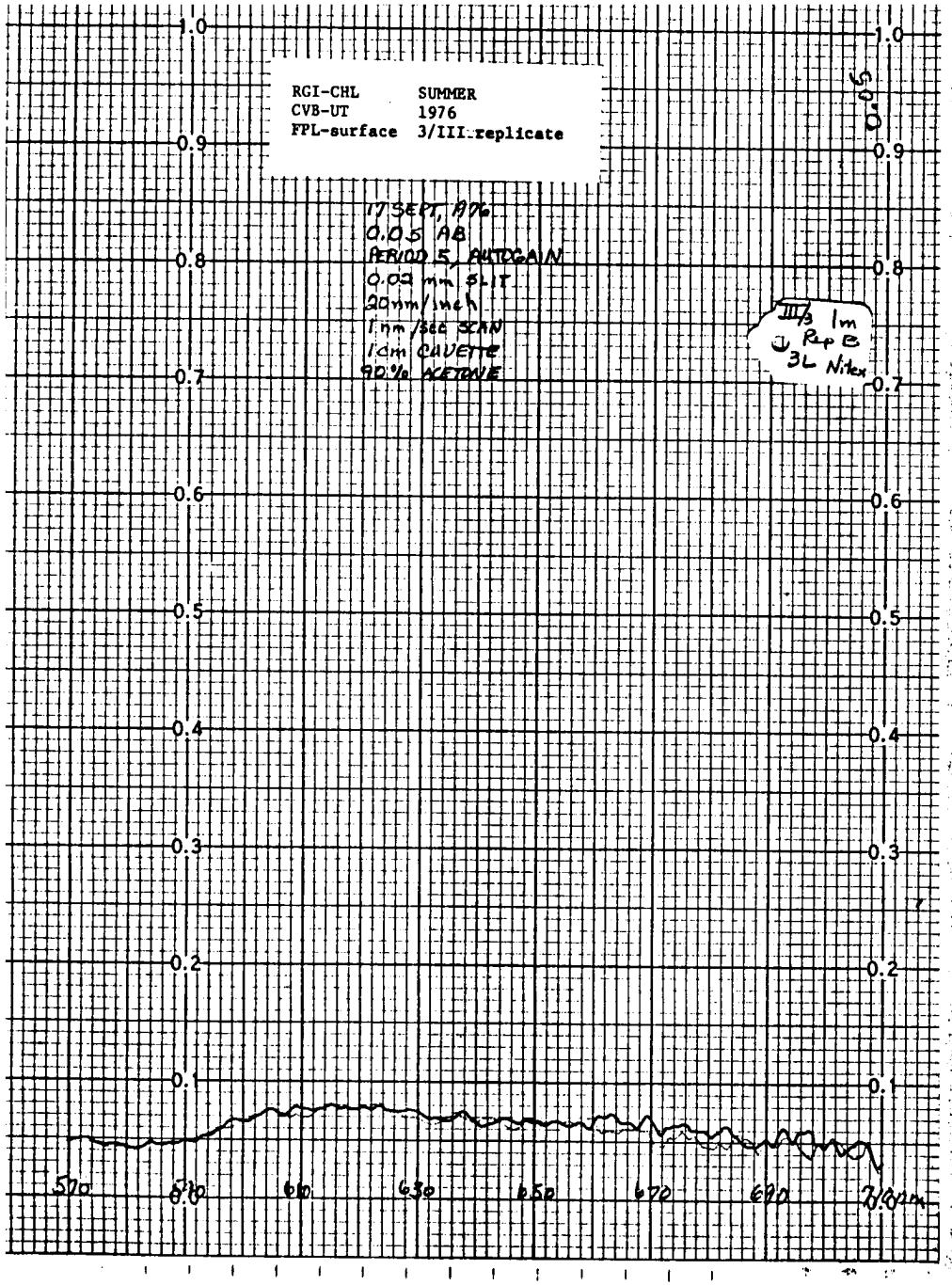
cary instruments / a varian subsidiary

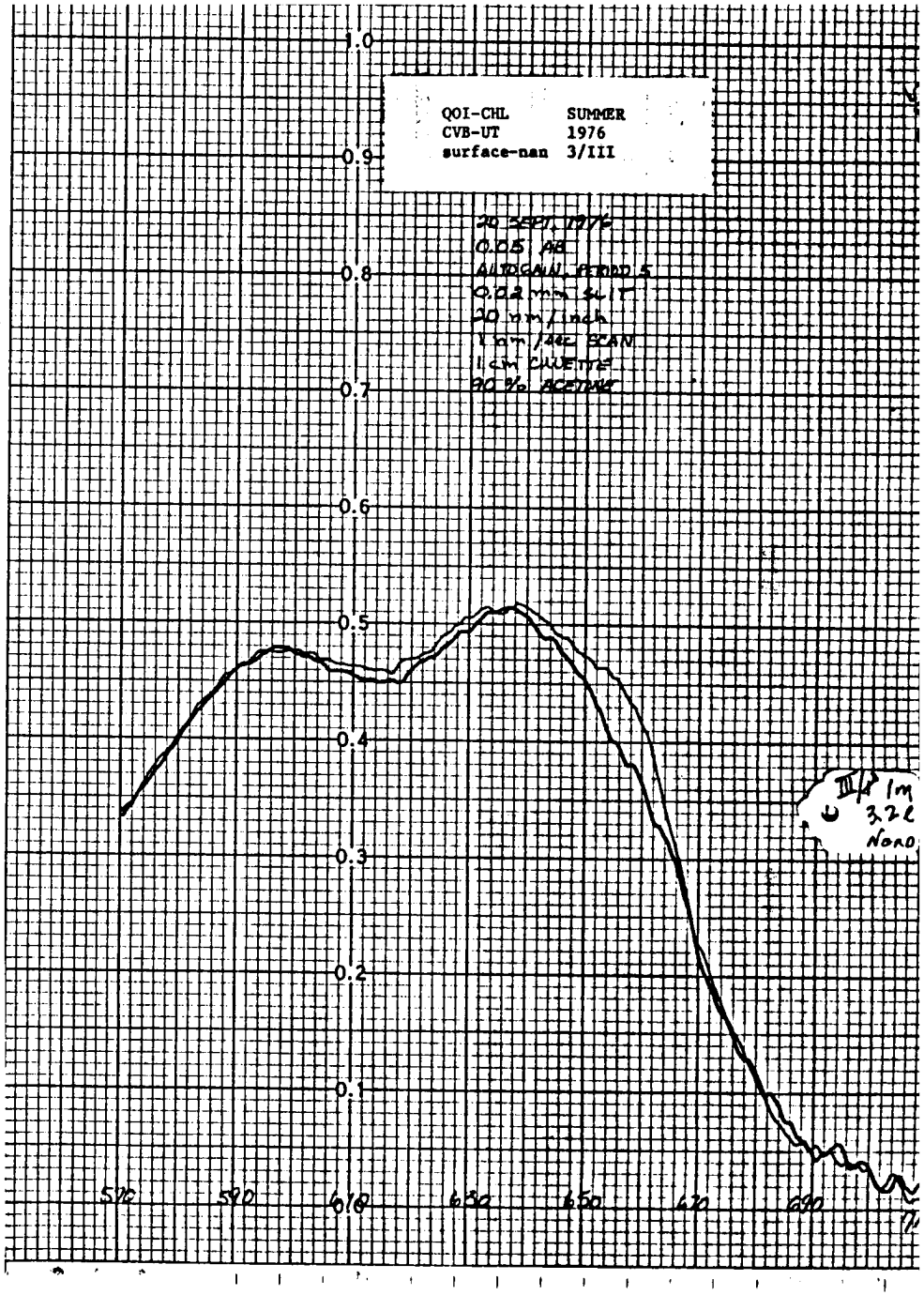
QMV-CHL SUMMER
CVB-UT 1976
nan-1/2 p.s. 2/III

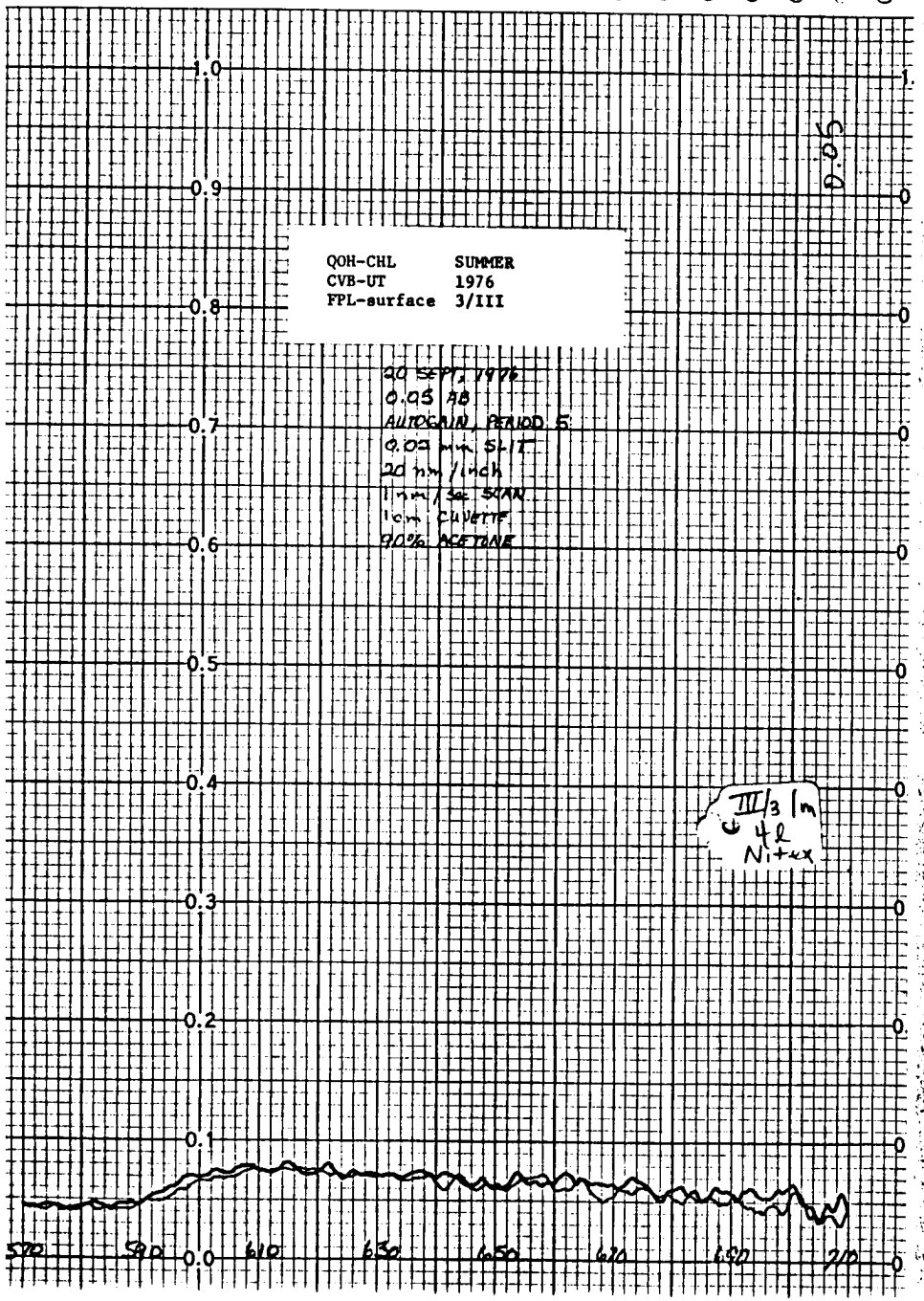
30 SEPT. 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.04 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE

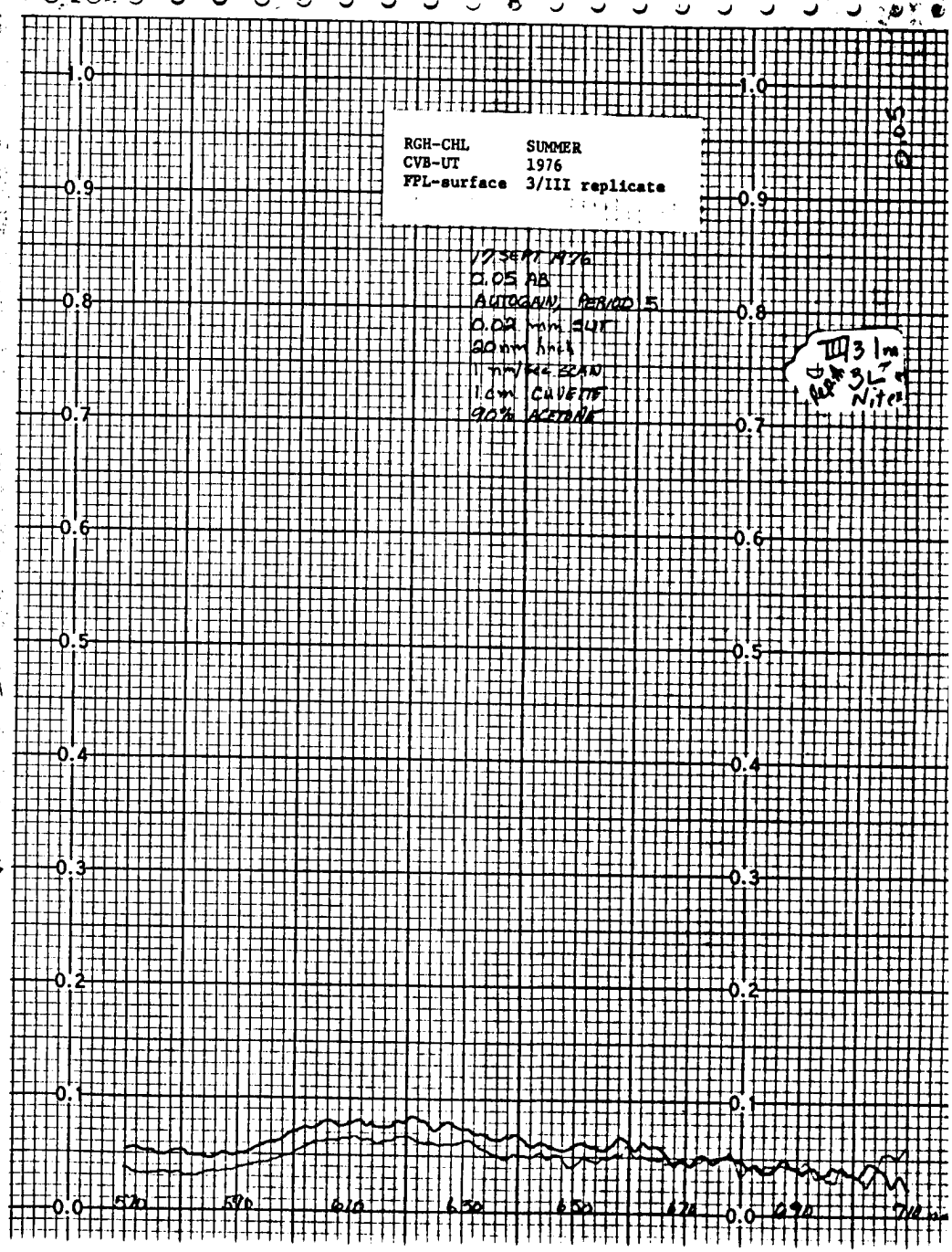
III 2
24m
32L
Nylon

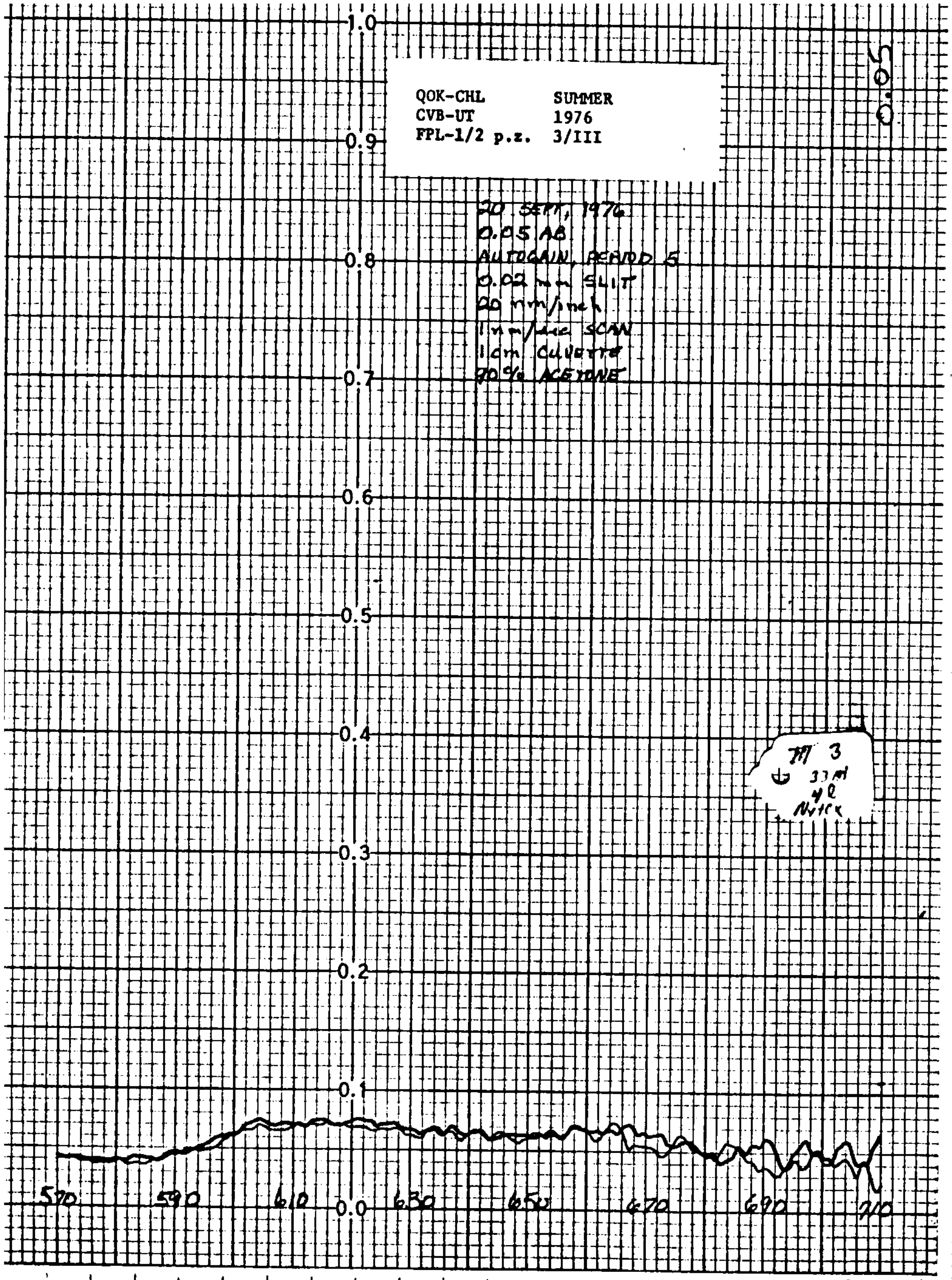
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
510 590 610 630 650 670 690 710

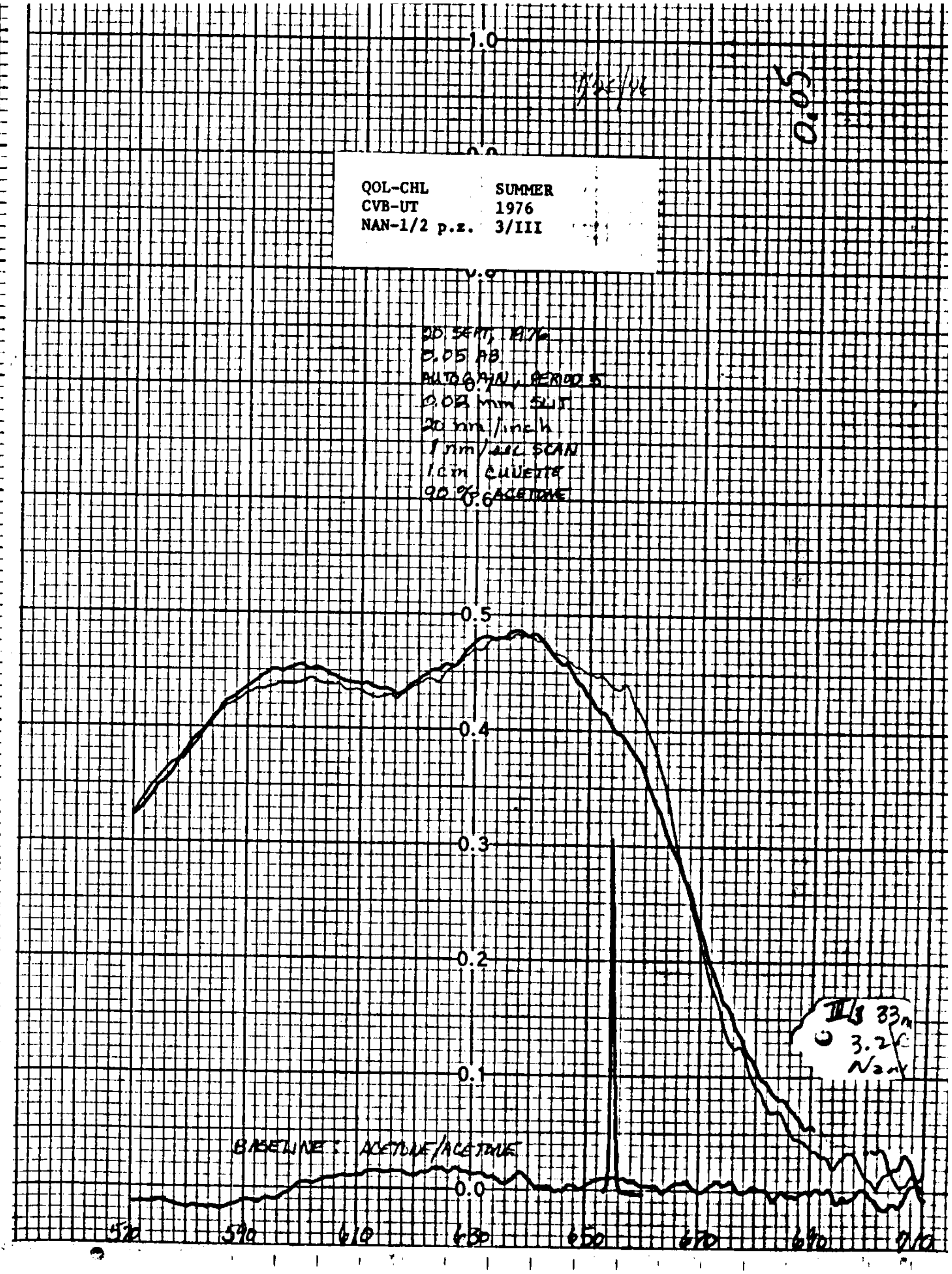

RGI-CHL SUMMER
CVB-UT 1976
FPL-surface 3/III replicate
17 SEPT, 1976
0.05 AB
PERIOD 5, AUTOGAIN
0.02 mm SLIT
20nm/inch
1 nm/sec SCAN
1cm CUVETTE
90% ACETONE
III/3 1m
Rep B
3L Nitex
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
700nm

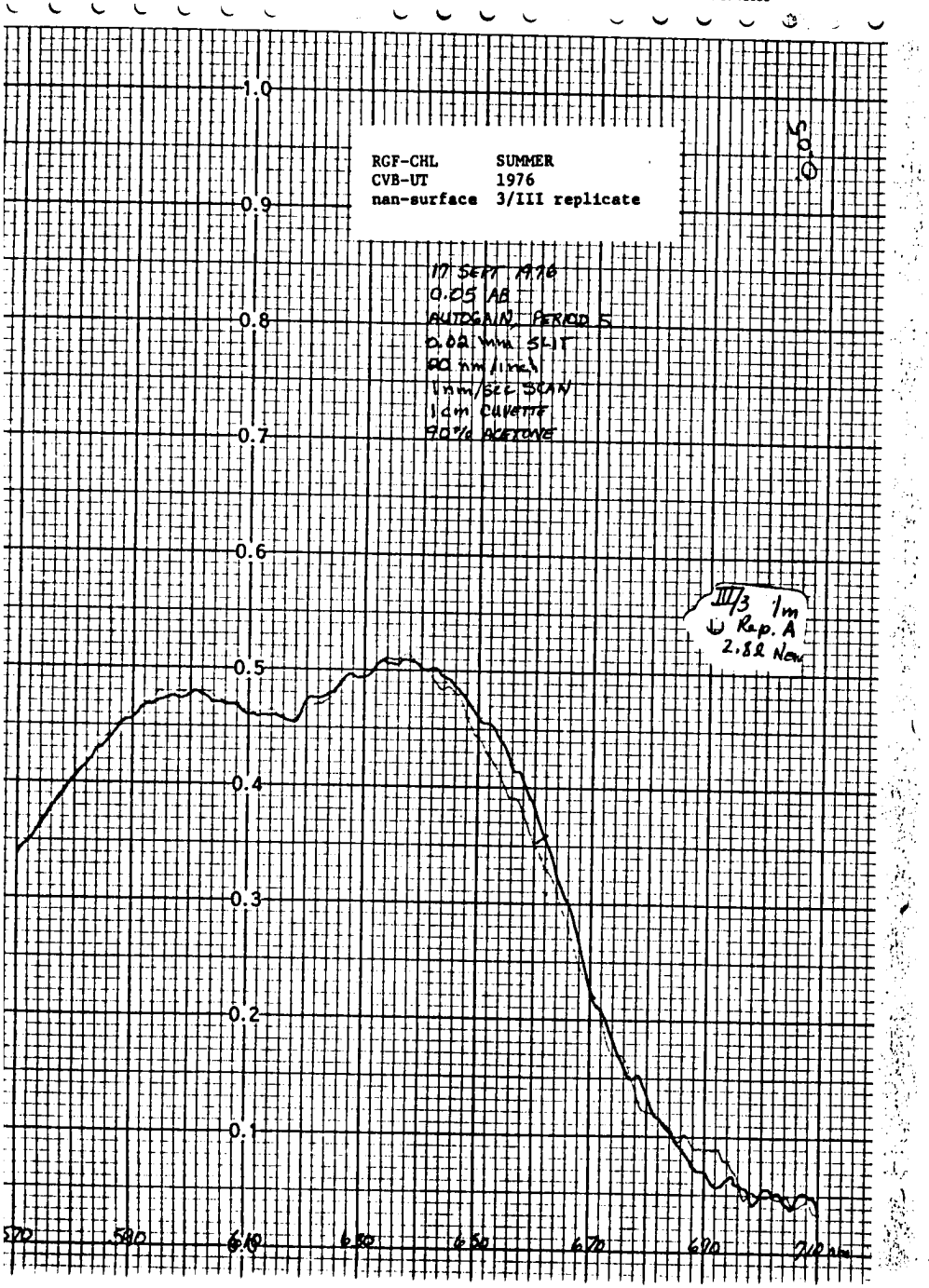

QOI-CHL SUMMER
CVB-UT 1976
surface-nan 3/III
20 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE
III/1 1m
3.2L
Nond
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690

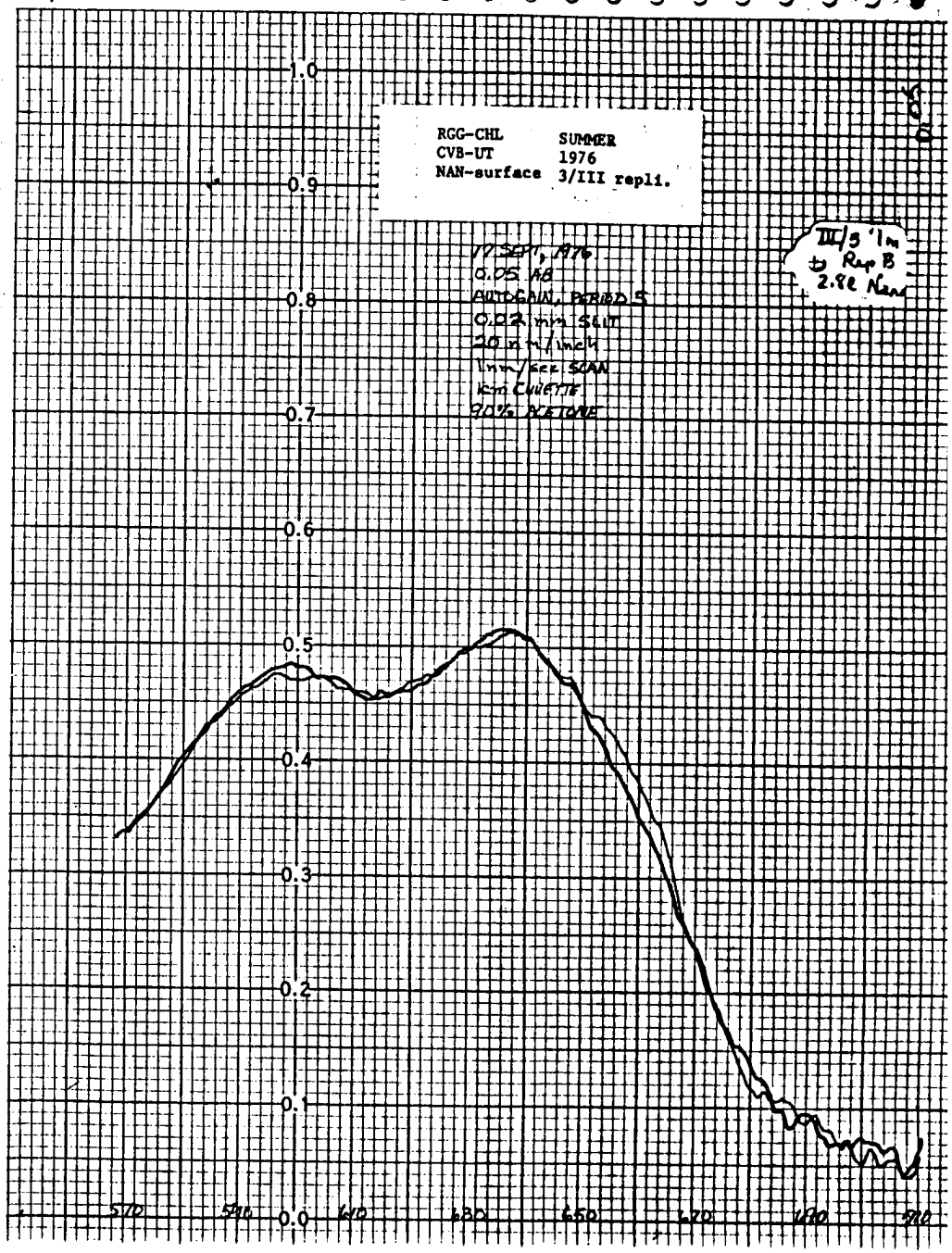

QOH-CHL SUMMER
CVB-UT 1976
FPL-surface 3/III
20 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1cm CUVETTE
90% ACETONE
III/3 1m
4l
Nitex
0.95
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710

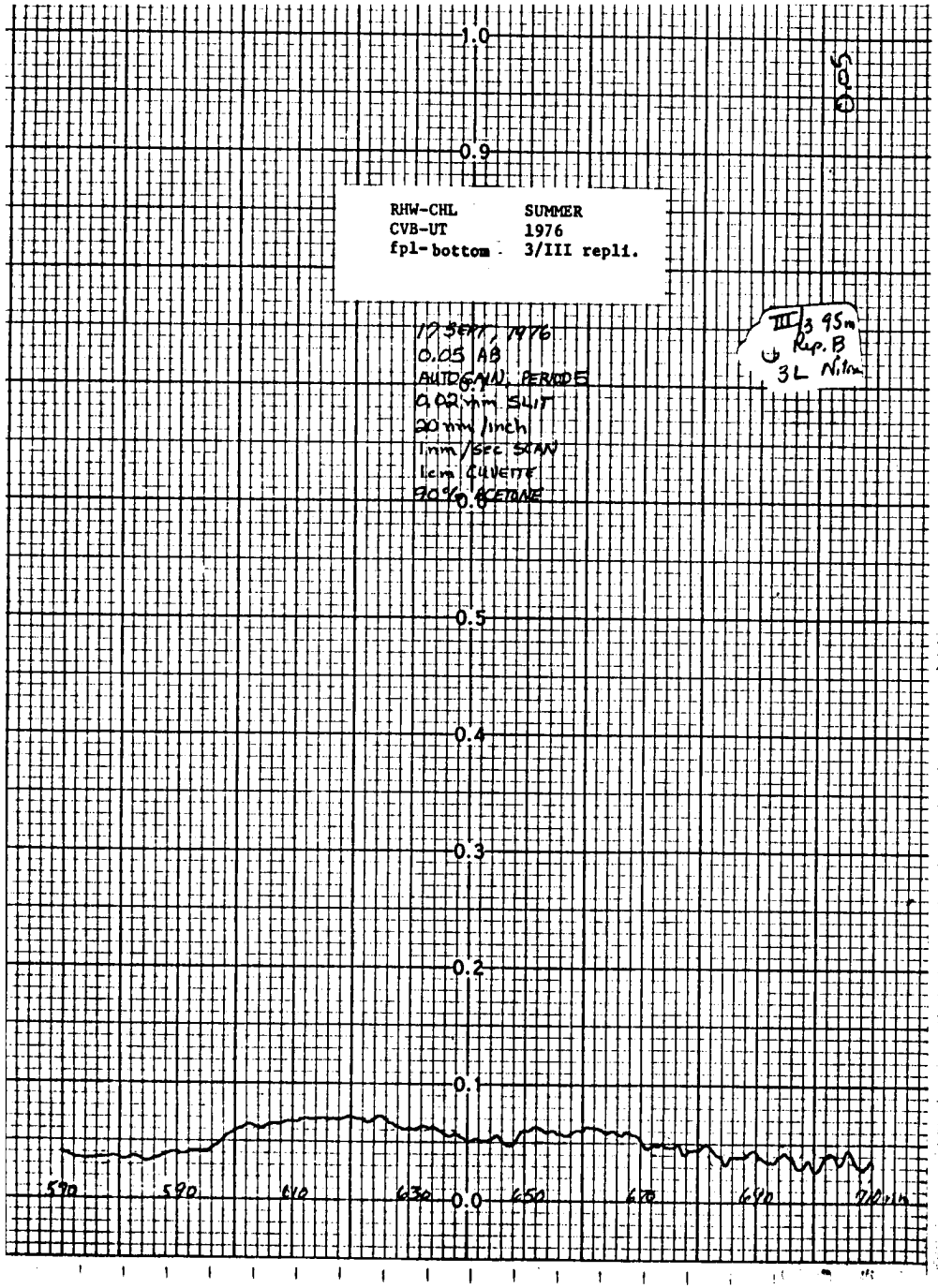

RGH-CHL SUMMER
CVB-UT 1976
FPL-surface 3/III replicate
17 SEPT 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1cm CUVETTE
90% ACETONE
III 3 1m
4l
Nitex
0.95
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710

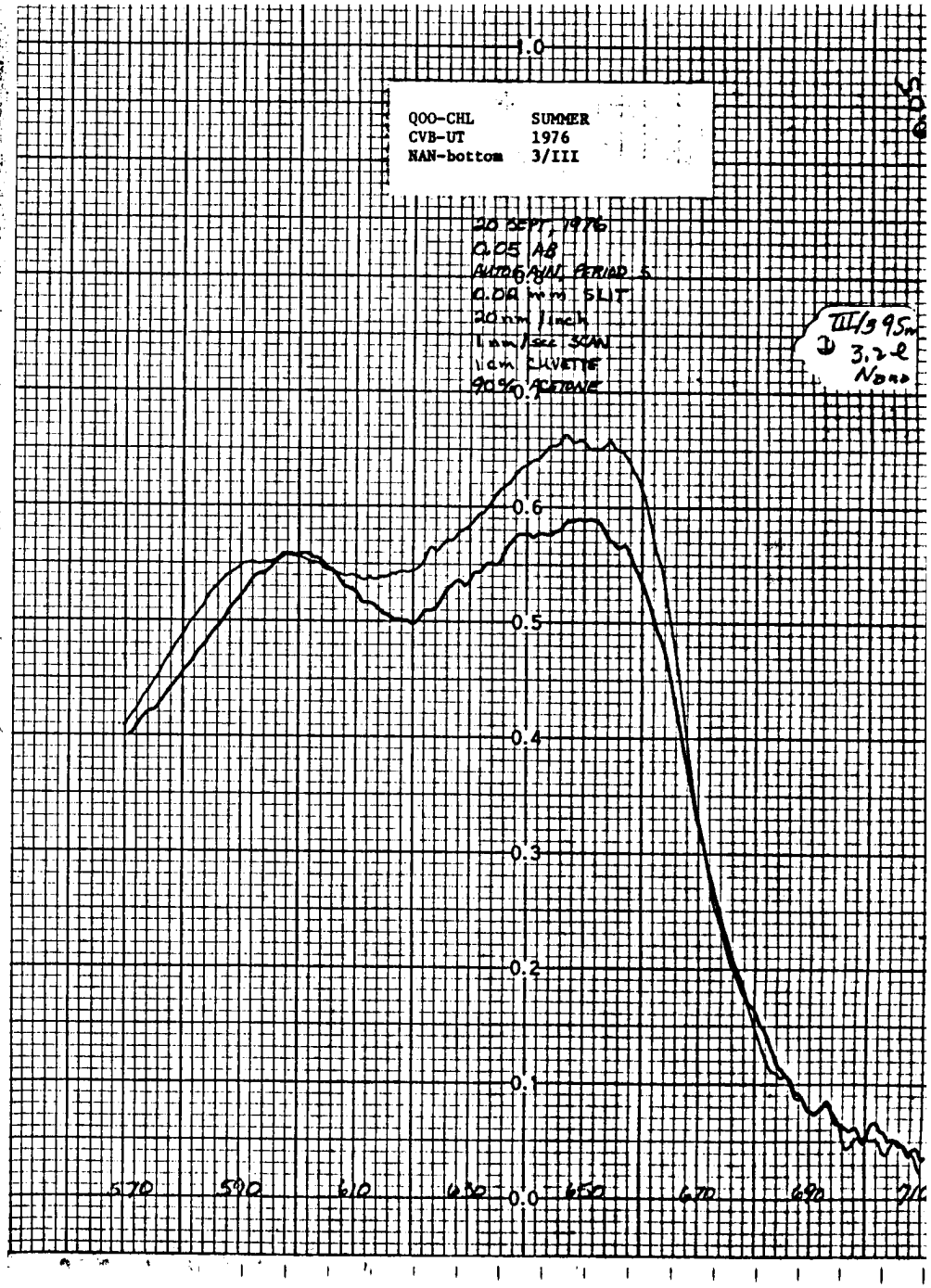

QOK-CHL SUMMER
CVB-UT 1976
FPL-1/2 p.z. 3/III
0.05
20 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710

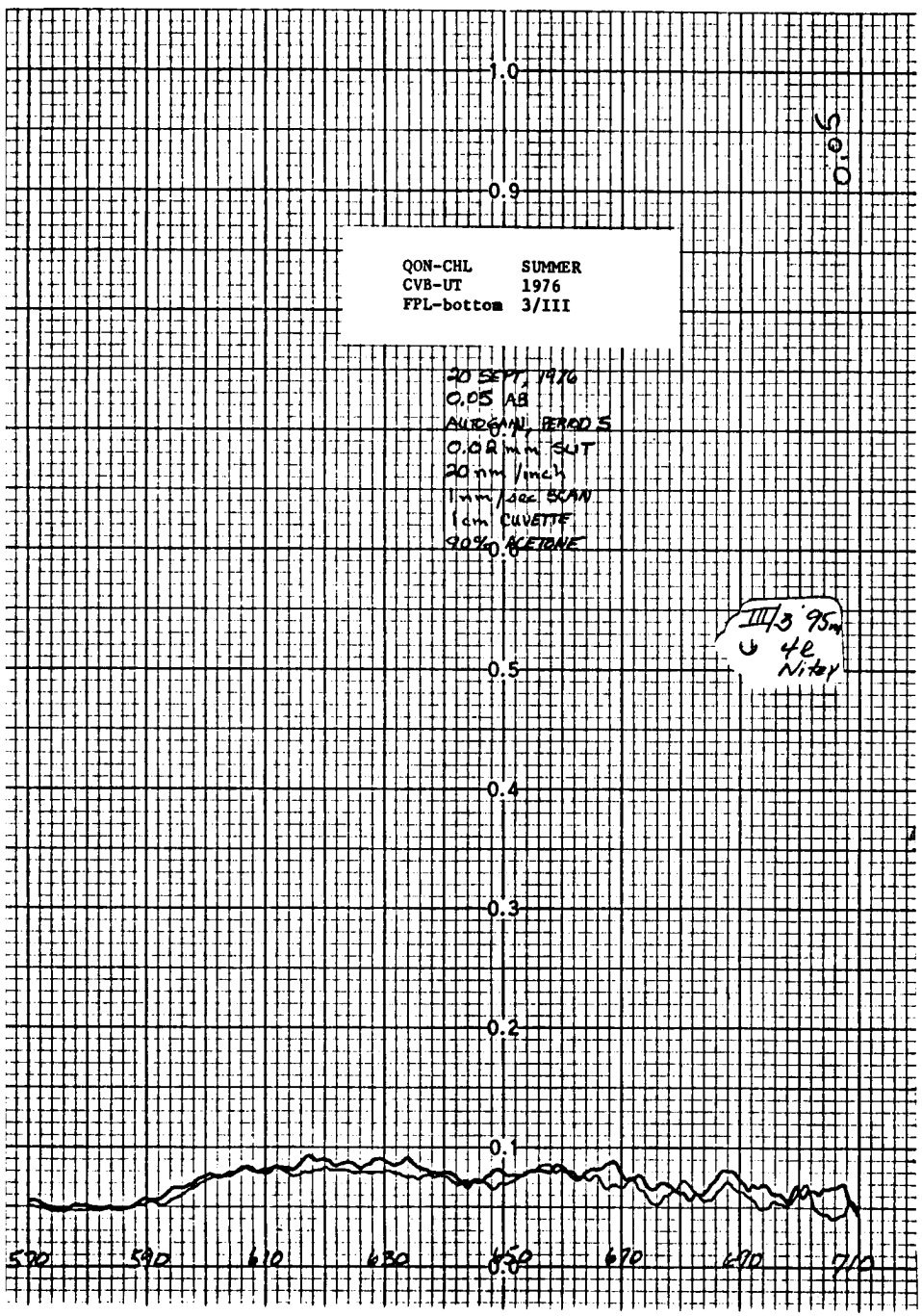

QOL-CHL SUMMER
CVB-UT 1976
NAN-1/2 p.z. 3/III
0.05
20 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE
BASELINE: ACETONE/ACETONE
1.0
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710

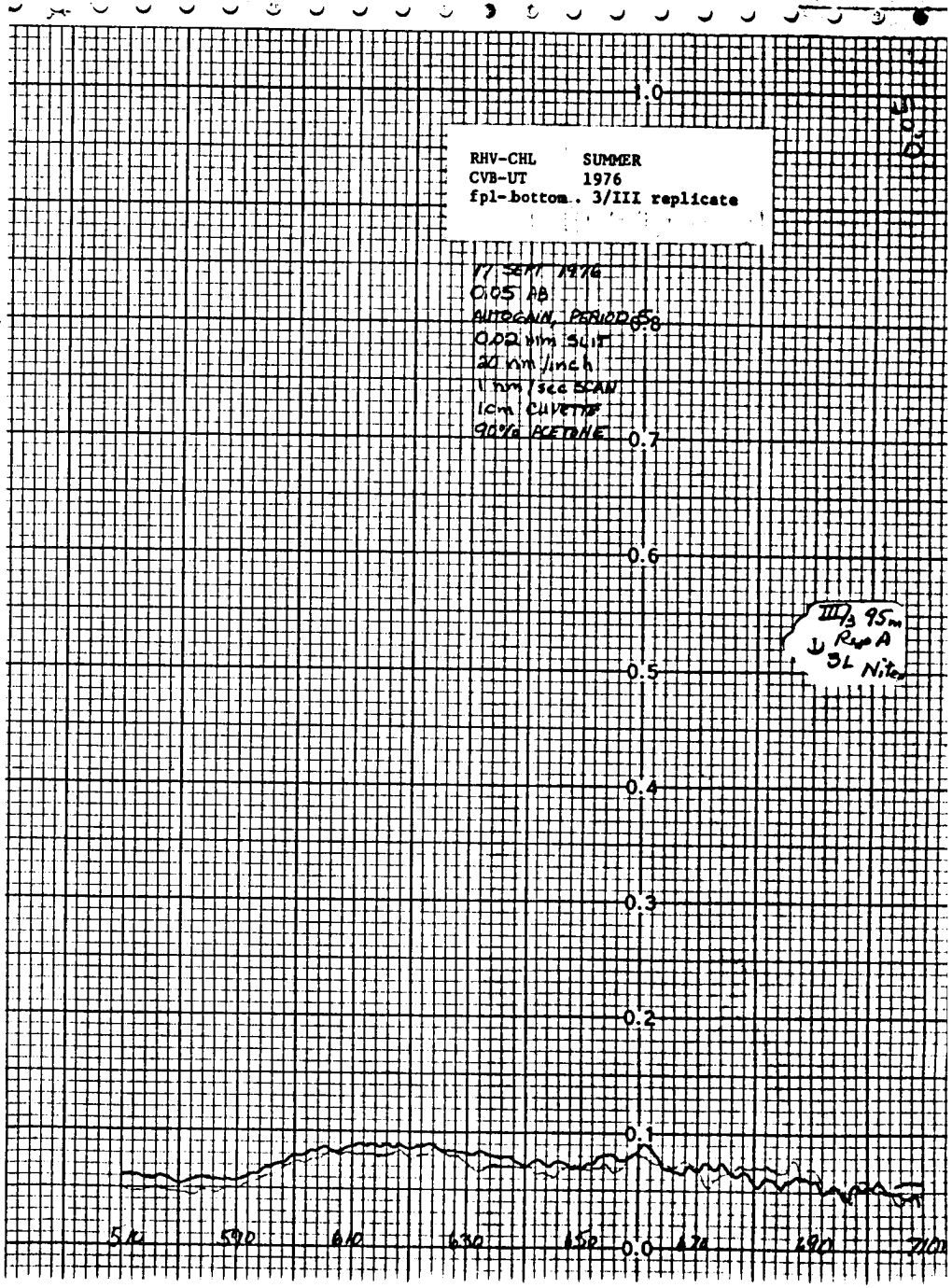

RGF-CHL SUMMER
CVB-UT 1976
nan-surface 3/III replicate
17 SEPT 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1nm/sec SCAN
1cm CUVETTE
90% ACETONE
III/3 1m
Rep. A
2.8Q Neu
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
500
580
610
630
650
670
690
710 nm

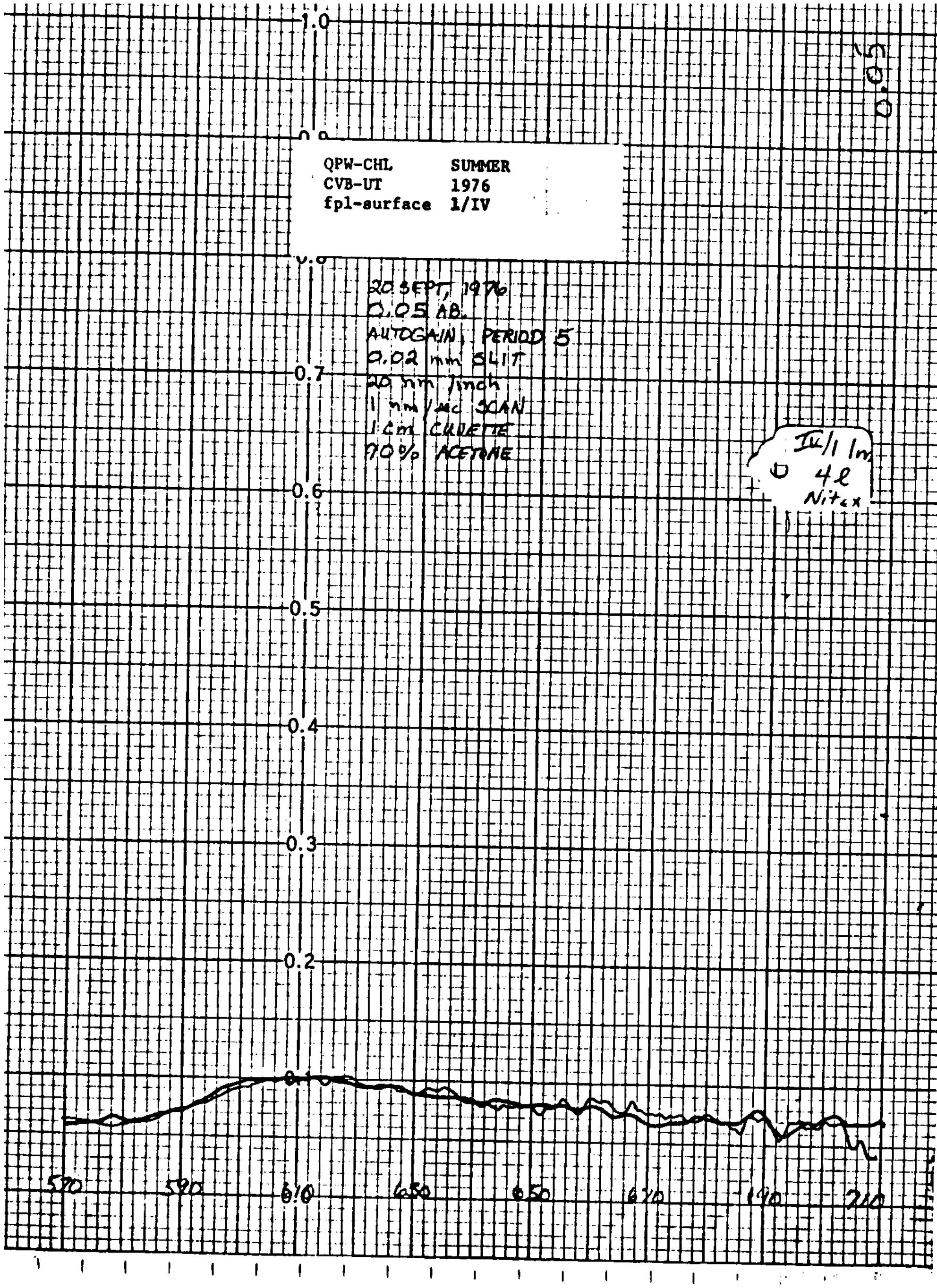

RGG-CHL SUMMER
CVB-UT 1976
NAN-surface 3/III repli.
17 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1nm/sec SCAN
1cm CUVETTE
90% ACETONE
III/3 1m
Rep B
2.8Q Neu
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710

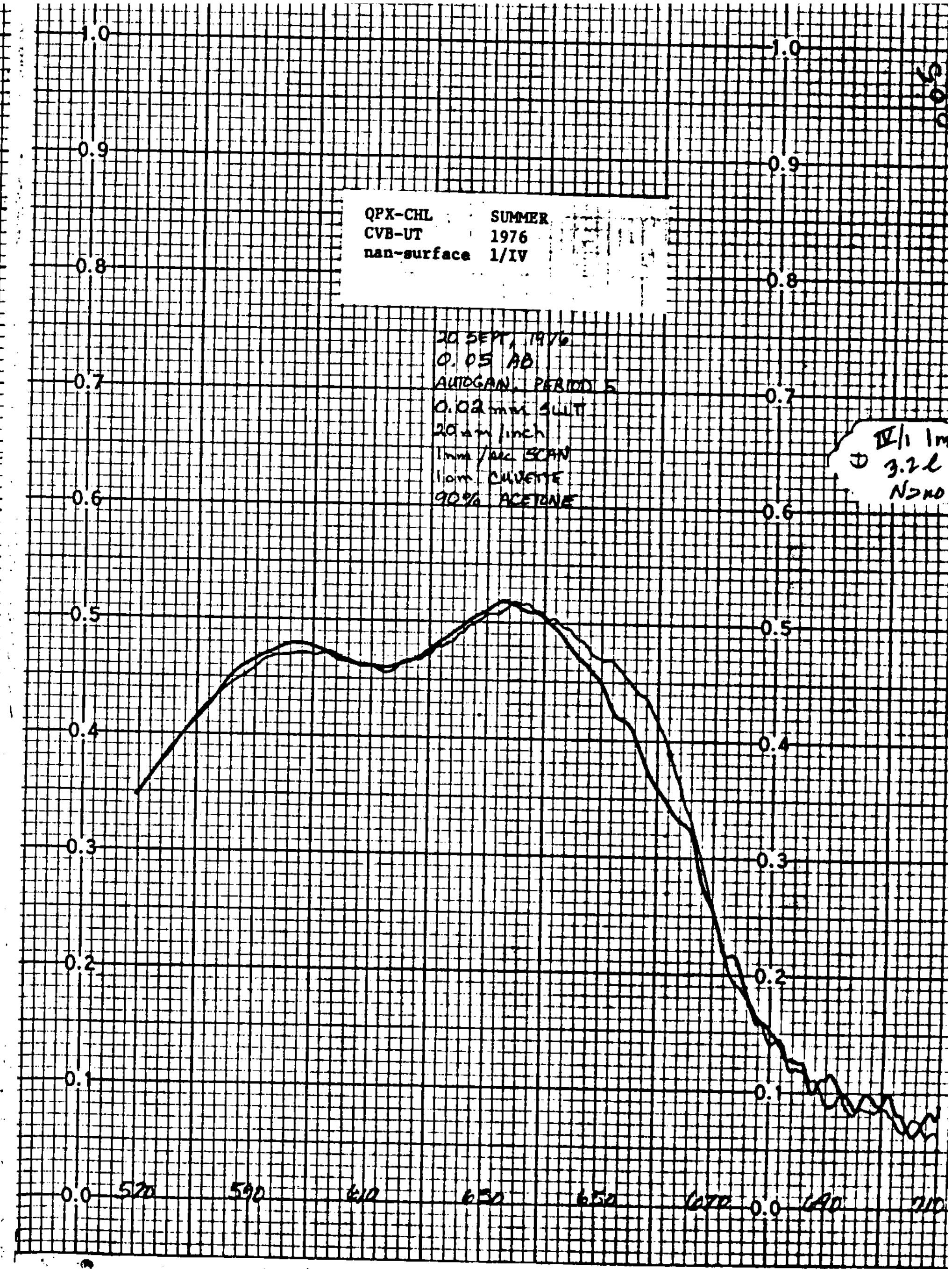

RHW-CHL SUMMER
CVB-UT 1976
fpl-bottom 3/III repli.
19 SEPT, 1976
0.05 AB
AUTO GAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 mm/sec SCAN
1 cm CUVETTE
90% ACETONE
III/3 95m
Rep. B
3L Nilm
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
610
630
650
670
690

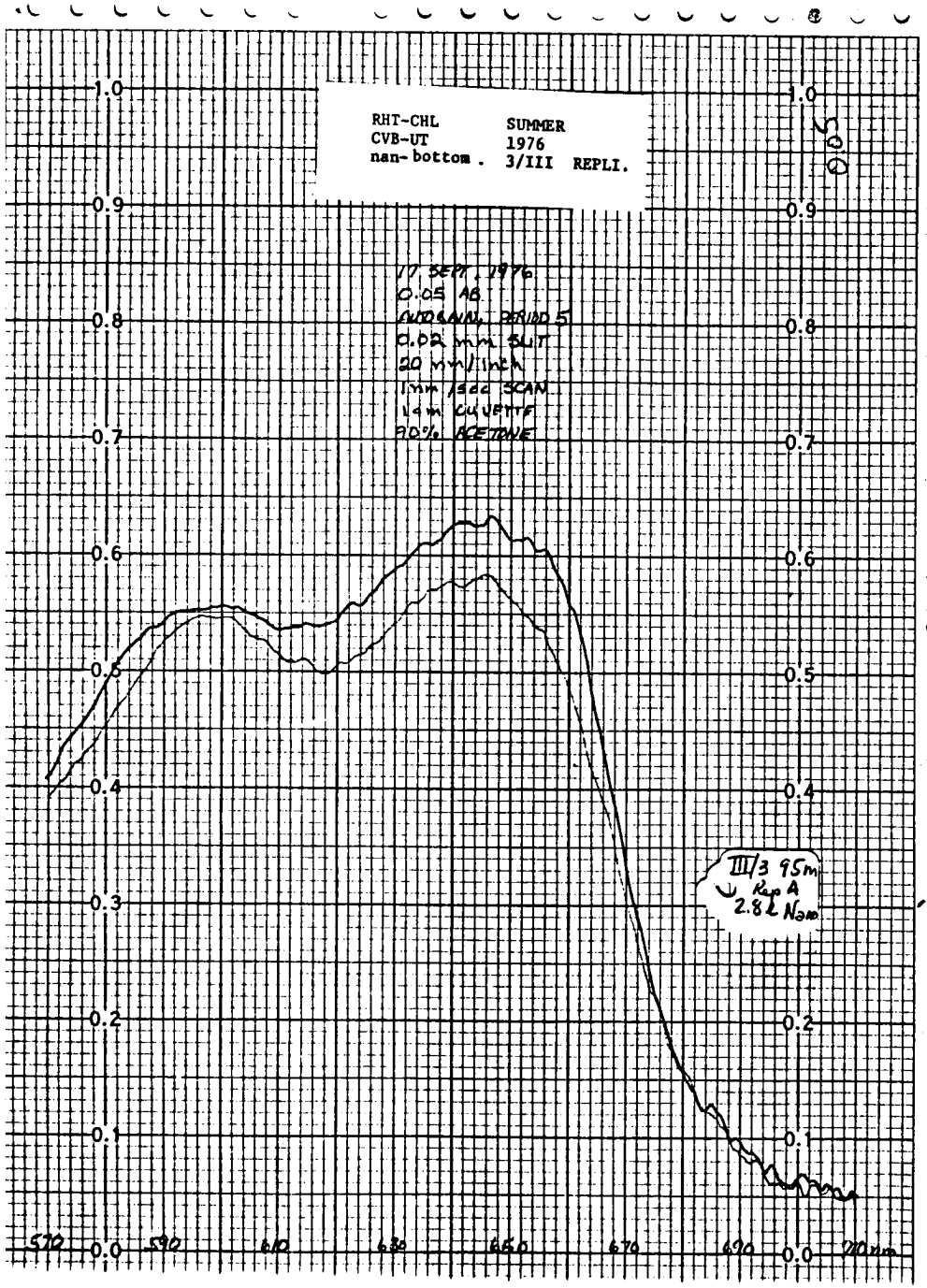

QOO-CHL SUMMER
CVB-UT 1976
NAN-bottom 3/III
20 SEPT, 1976
0.05 AB
AUTO GAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 mm/sec SCAN
1 cm CUVETTE
90% ACETONE
III/3 95m
3.2 L
NOAD
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690

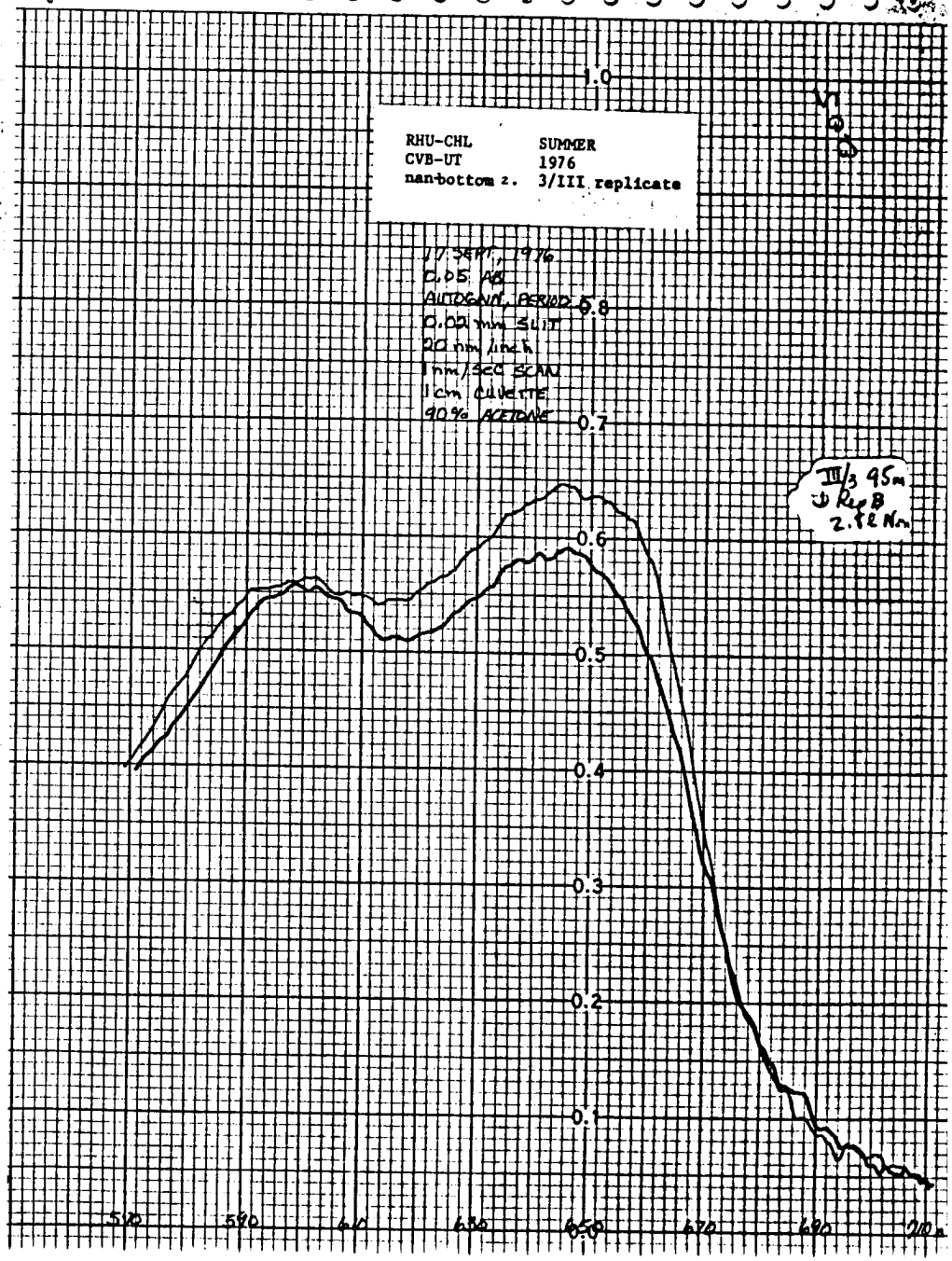

QON-CHL SUMMER
CVB-UT 1976
FPL-bottom 3/III
20 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 nm SLIT
20 nm/inch
1 nm/sec SCAN
1cm CUVETTE
90% ACETONE
III/3 95m
↓ 4L
Nitex
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
610
630
650
670
690
710

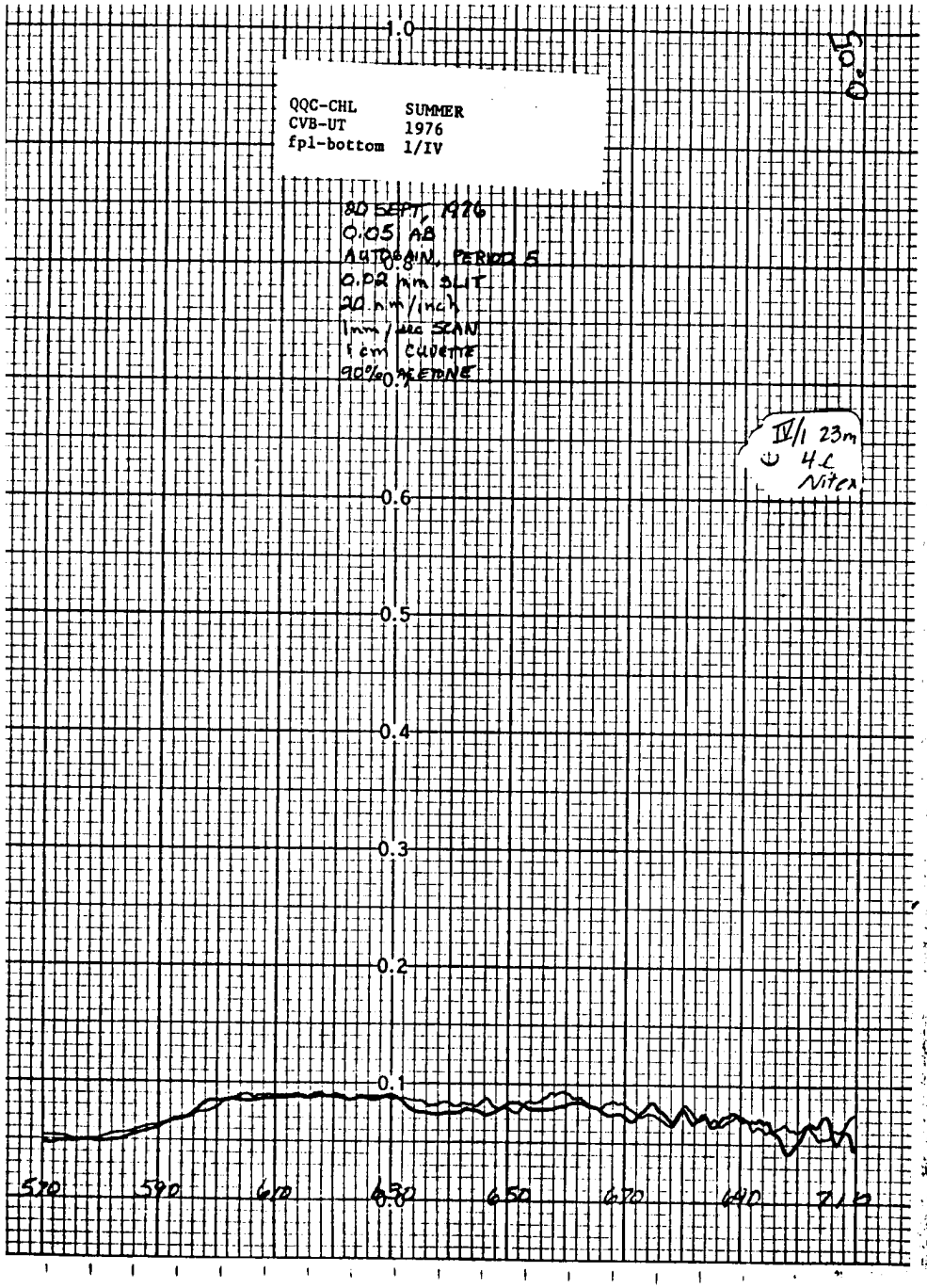

RHV-CHL SUMMER
CVB-UT 1976
fpl-bottom.. 3/III replicate
17 SEPT 1976
0.05 AB
AUTOGAIN, PERIOD 8
0.02 nm SLIT
20 nm/inch
1 nm/sec SCAN
1cm CUVETTE
90% ACETONE
III/3 95m
Rep A
↓ 5L
Nitex
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
610
630
650
690
710

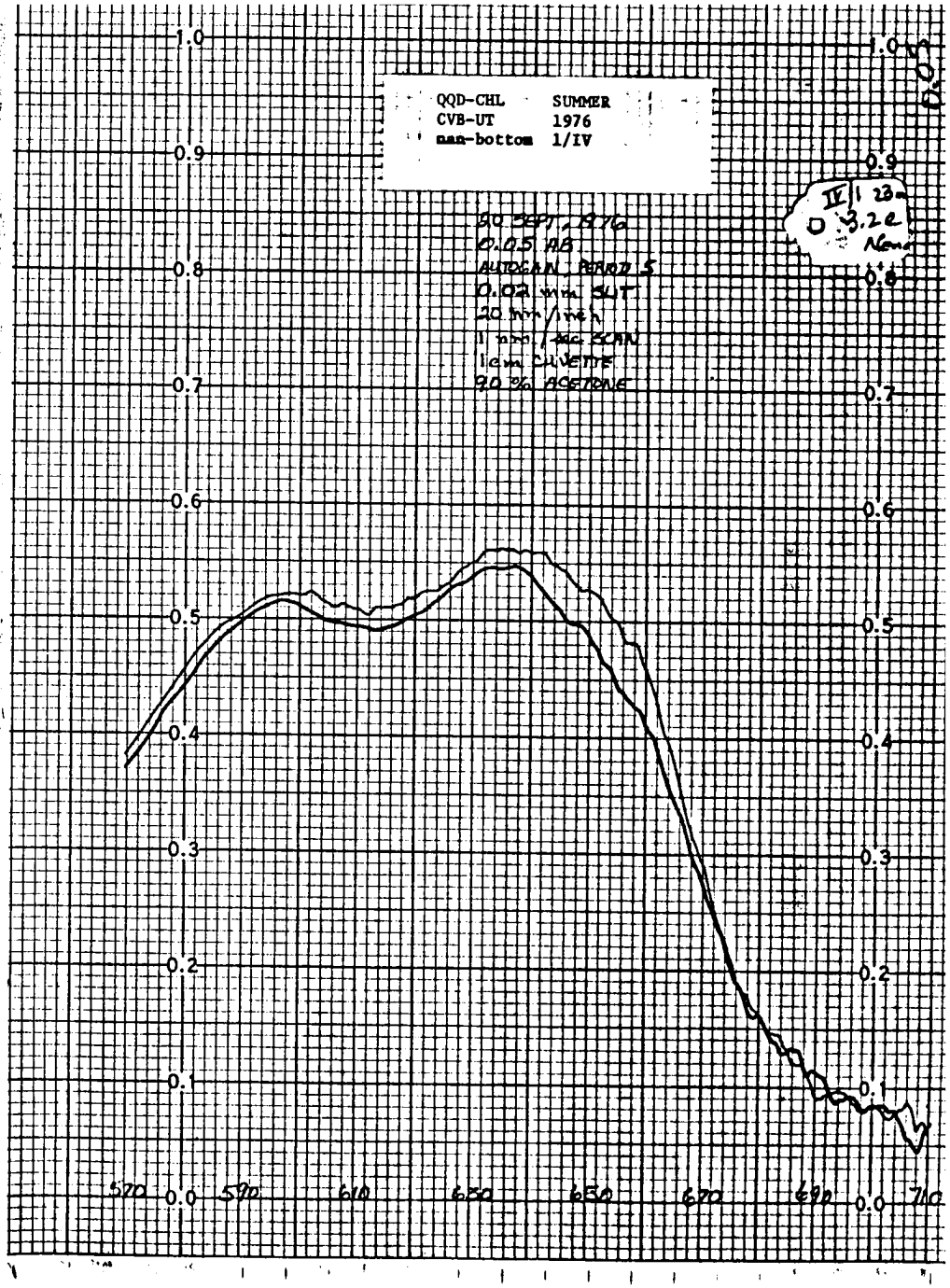

QPW-CHL SUMMER
CVB-UT 1976
fpl-surface 1/IV
20 SEPT, 1976
0.05 AB.
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE
1.0
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05

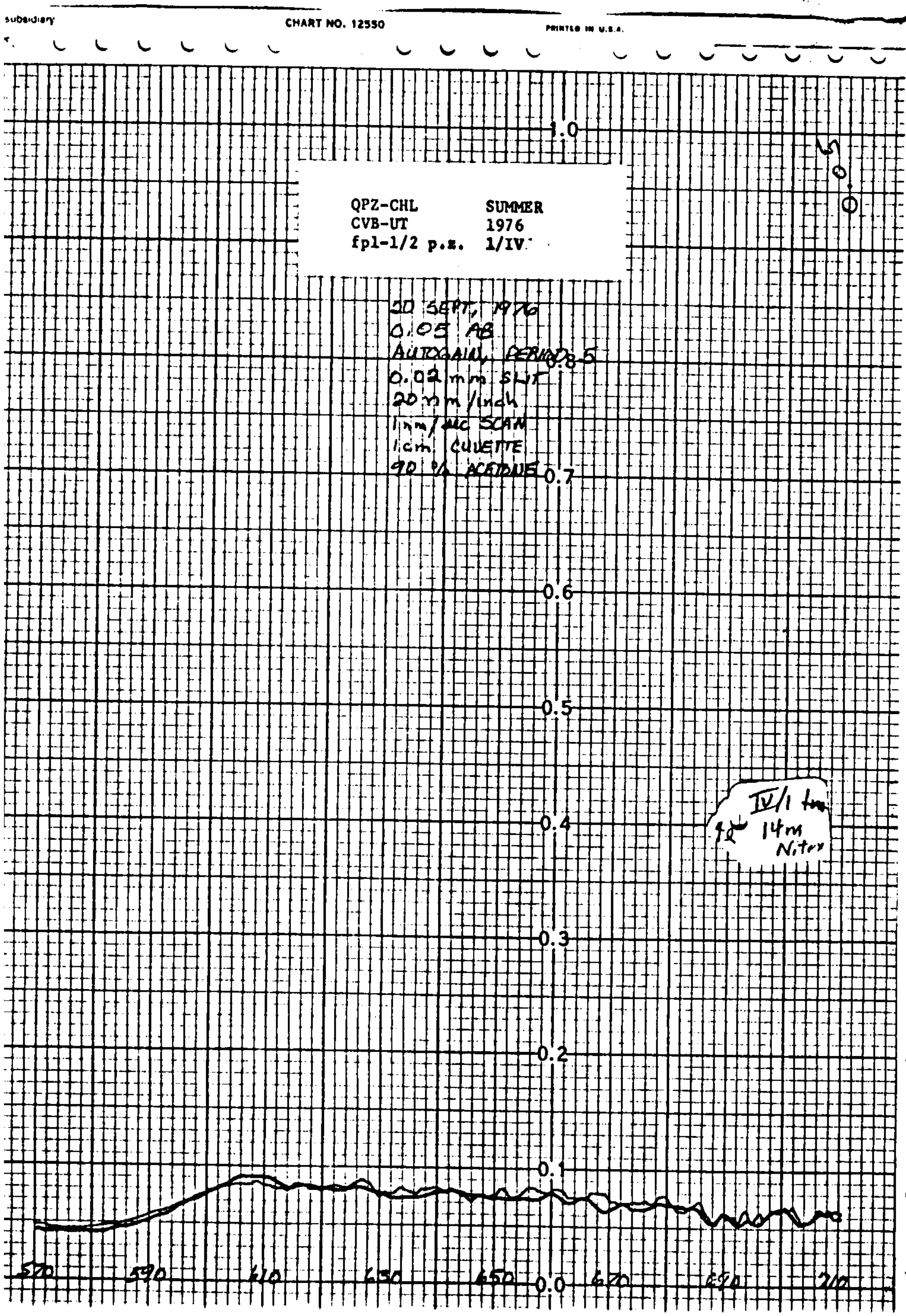

QPX-CHL SUMMER
CVB-UT 1976
nan-surface 1/IV
20 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0

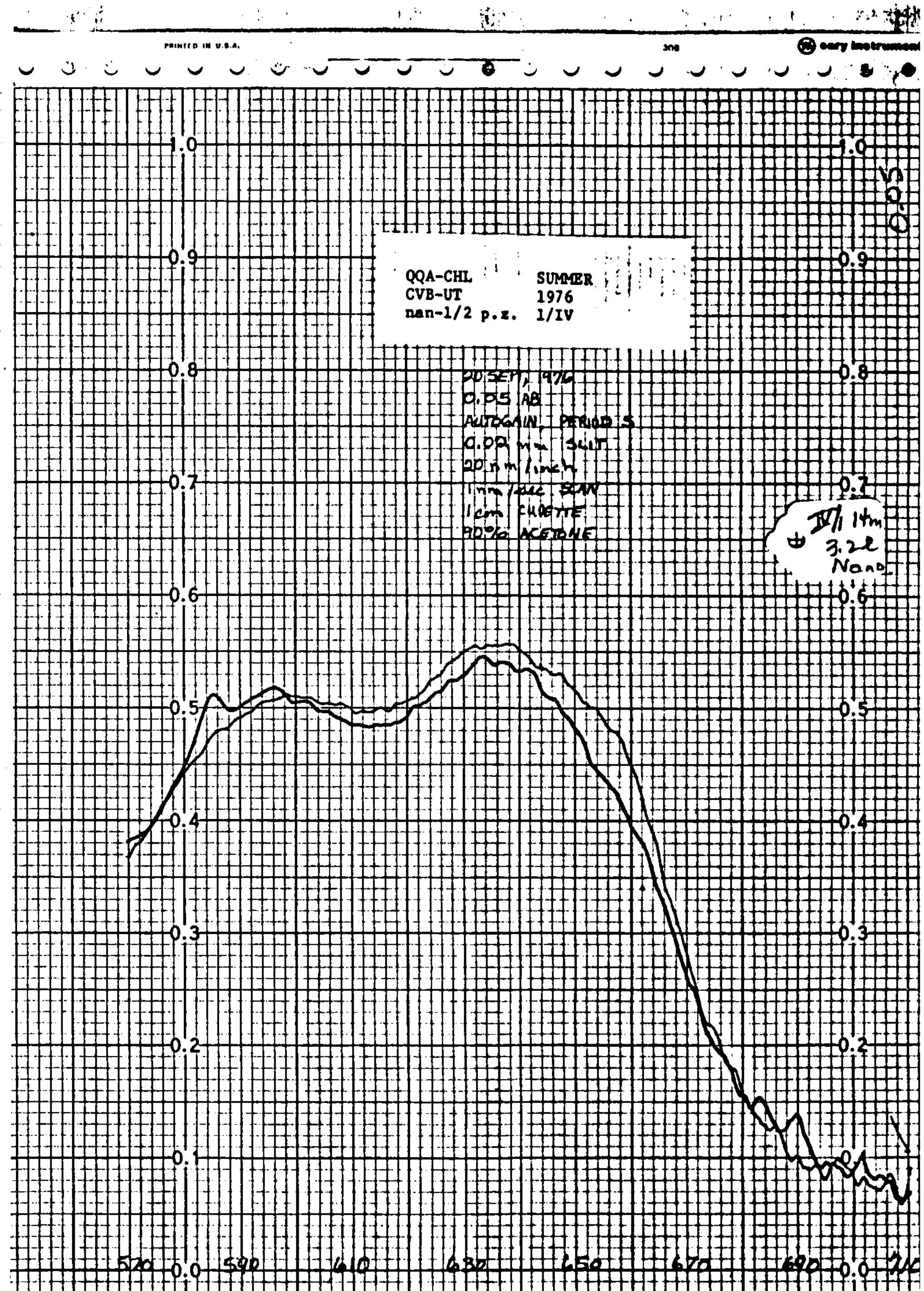

RHT-CHL SUMMER
CVB-UT 1976
nan-bottom . 3/III REPLI.
17 SEPT. 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1nm/sec SCAN
1cm CUVETTE
90% ACETONE
III/3 95m
Rep A
2.8 L Nan
500
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710nm

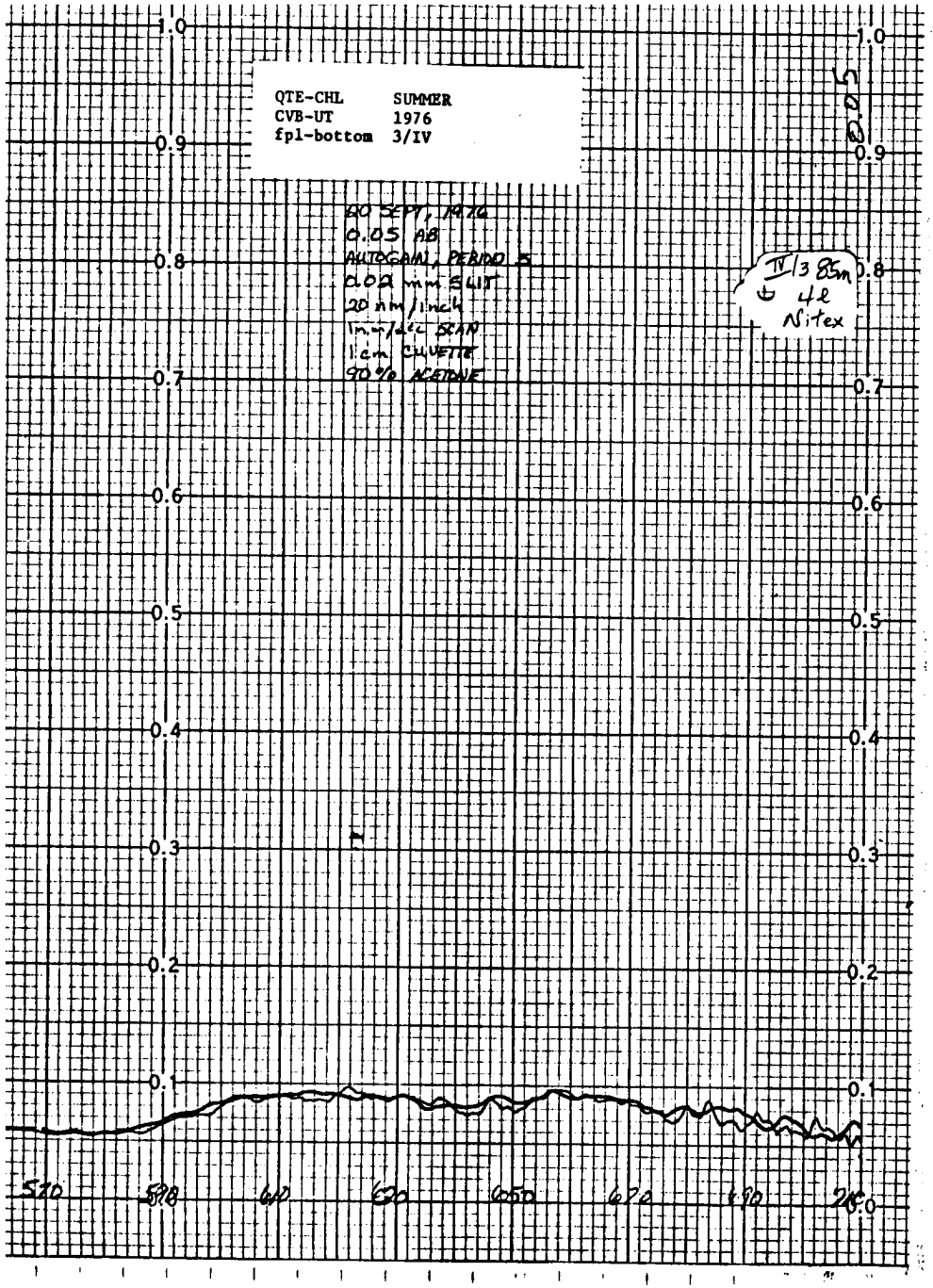

RHU-CHL SUMMER
CVB-UT 1976
nan-bottom 2. 3/III replicate
17 SEPT. 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1nm/sec SCAN
1cm CUVETTE
90% ACETONE
III/3 95m
Rep B
2.8 L Nan
500
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710nm

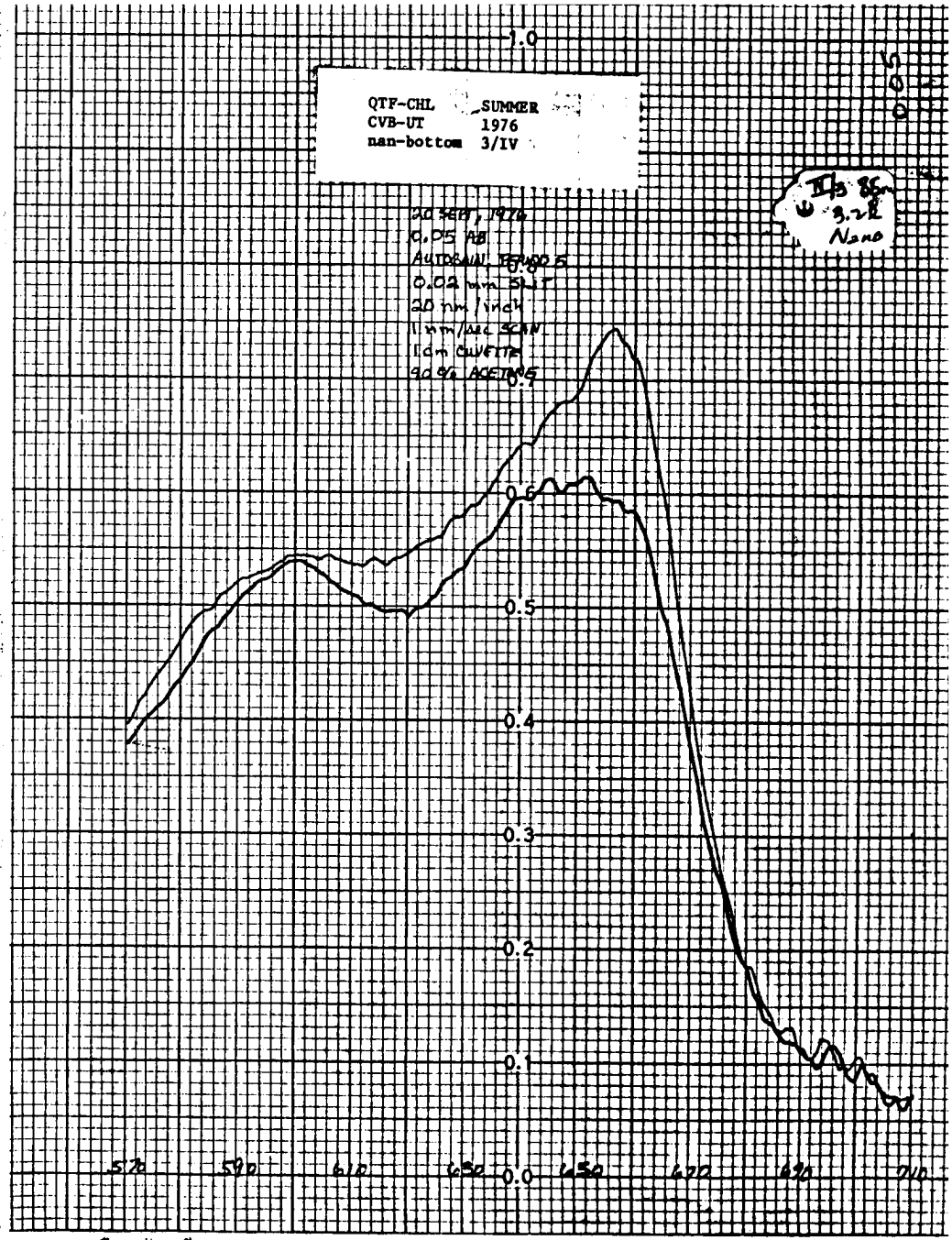

QQC-CHL SUMMER
CVB-UT 1976
fpl-bottom 1/IV
30 SEPT, 1976
0.05 AB
AUTOSCAN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE
IV/1 23m
4 L
Nitex
1.0
0.8
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710


QQD-CHL SUMMER
CVB-UT 1976
man-bottom 1/IV
30 SEPT, 1976
0.05 AB
AUTOSCAN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE
IV/1 23m
3.2 L
Nitex
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710


subsidiary
CHART NO. 12550
PRINTED IN U.S.A.
QPZ-CHL SUMMER
CVB-UT 1976
fpl-1/2 p.z. 1/IV
20 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1nm/sec SCAN
1cm CUVETTE
90% ACETONE
IV/1 14m
Nitrox
1.0
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710


PRINTED IN U.S.A.
cary instruments
QQA-CHL SUMMER
CVB-UT 1976
nan-1/2 p.z. 1/IV
20 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1nm/sec SCAN
1cm CUVETTE
90% ACETONE
IV/1 14m
3.2 l
Nano
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710


QTE-CHL SUMMER
CVB-UT 1976
fpl-bottom 3/IV
20 SEPT, 1976
0.05 AB
AUTOGAIN; PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE
IV/3 85m
4 ℓ
Nitex
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
510
530
640
650
660
670
690
700


QTF-CHL SUMMER
CVB-UT 1976
nan-bottom 3/IV
20 SEPT, 1976
0.05 AB
AUTOGAIN; PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE
IV/3 85m
3.2 ℓ
Nano
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
510
530
640
650
660
670
690
700

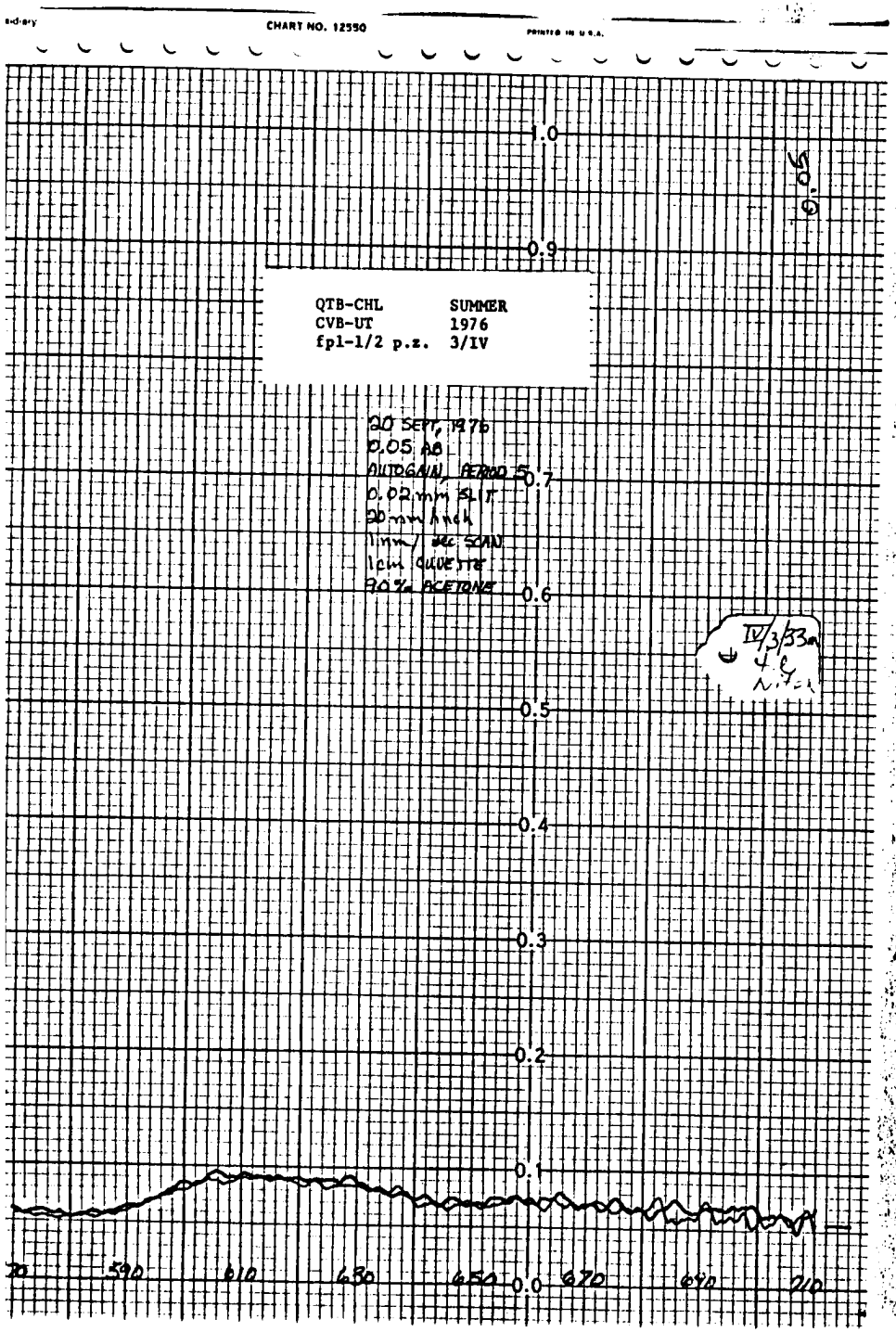


CHART NO. 12550
QTB-CHL SUMMER
CVB-UT 1976
fpl-1/2 p.z. 3/IV
20 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 mm/inch
1 mm/sec SCAN
1 cm CUVETTE
90% ACETONE
IV/3/33m
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
610
630
650
670
690
710

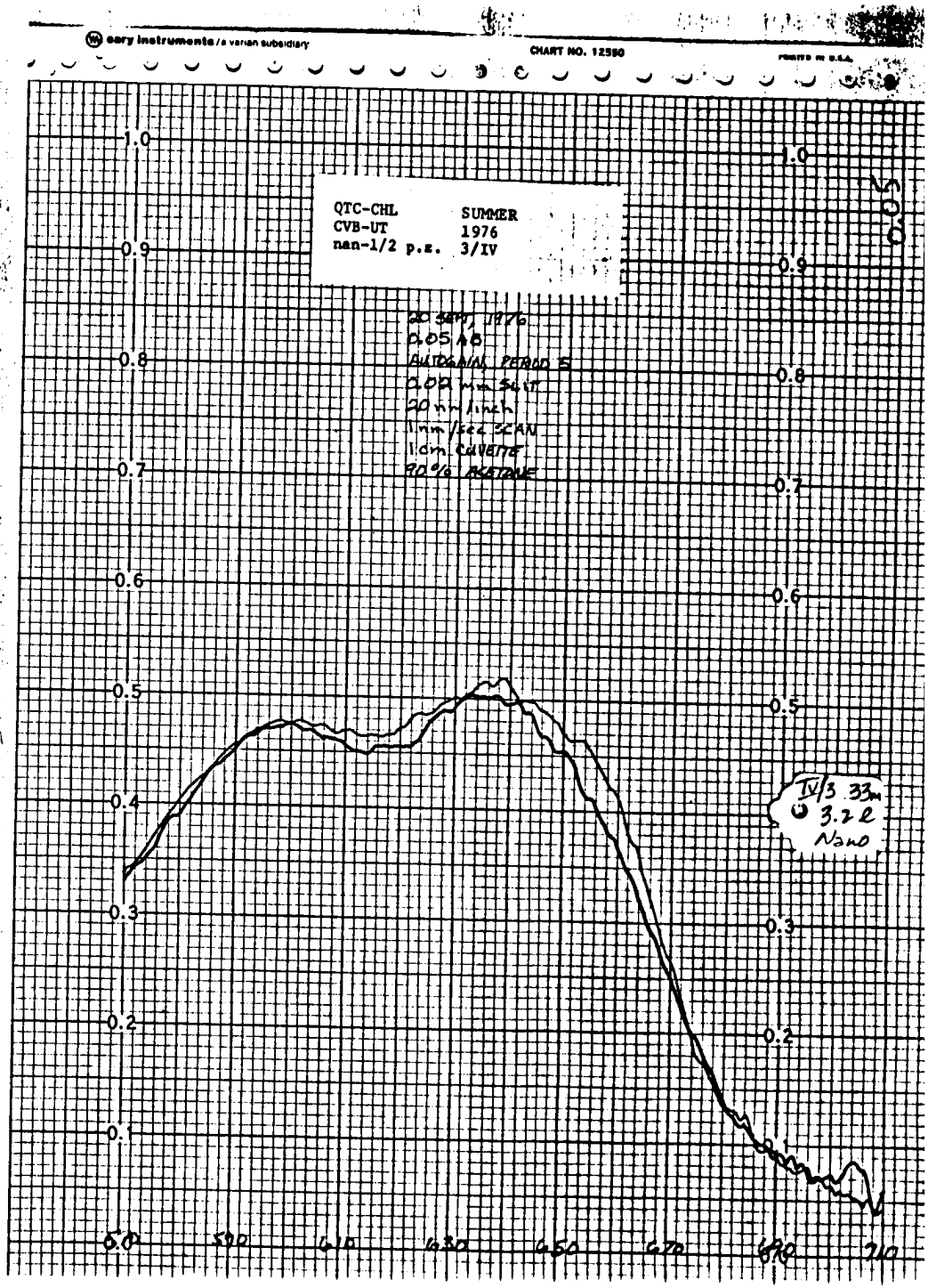
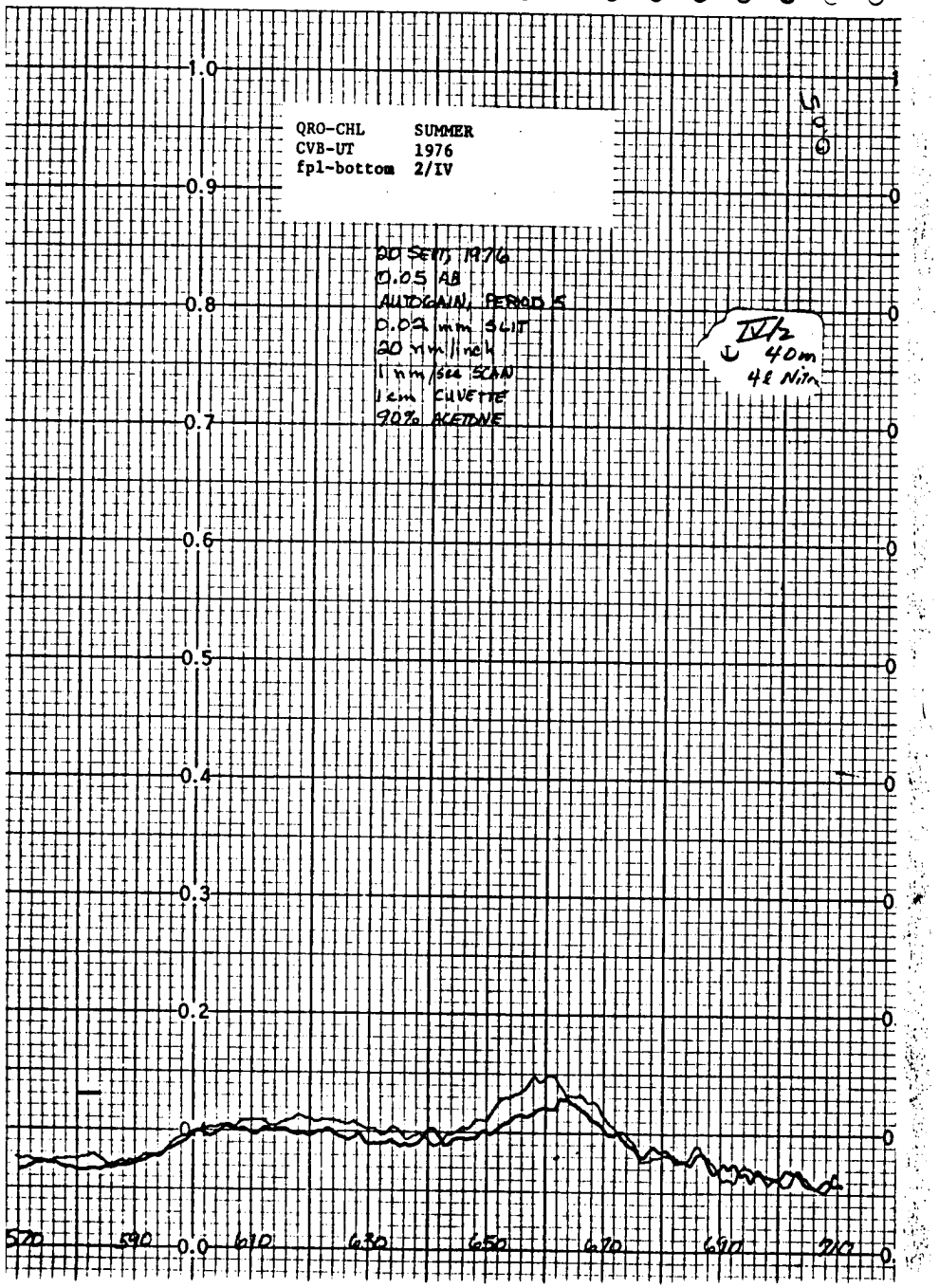
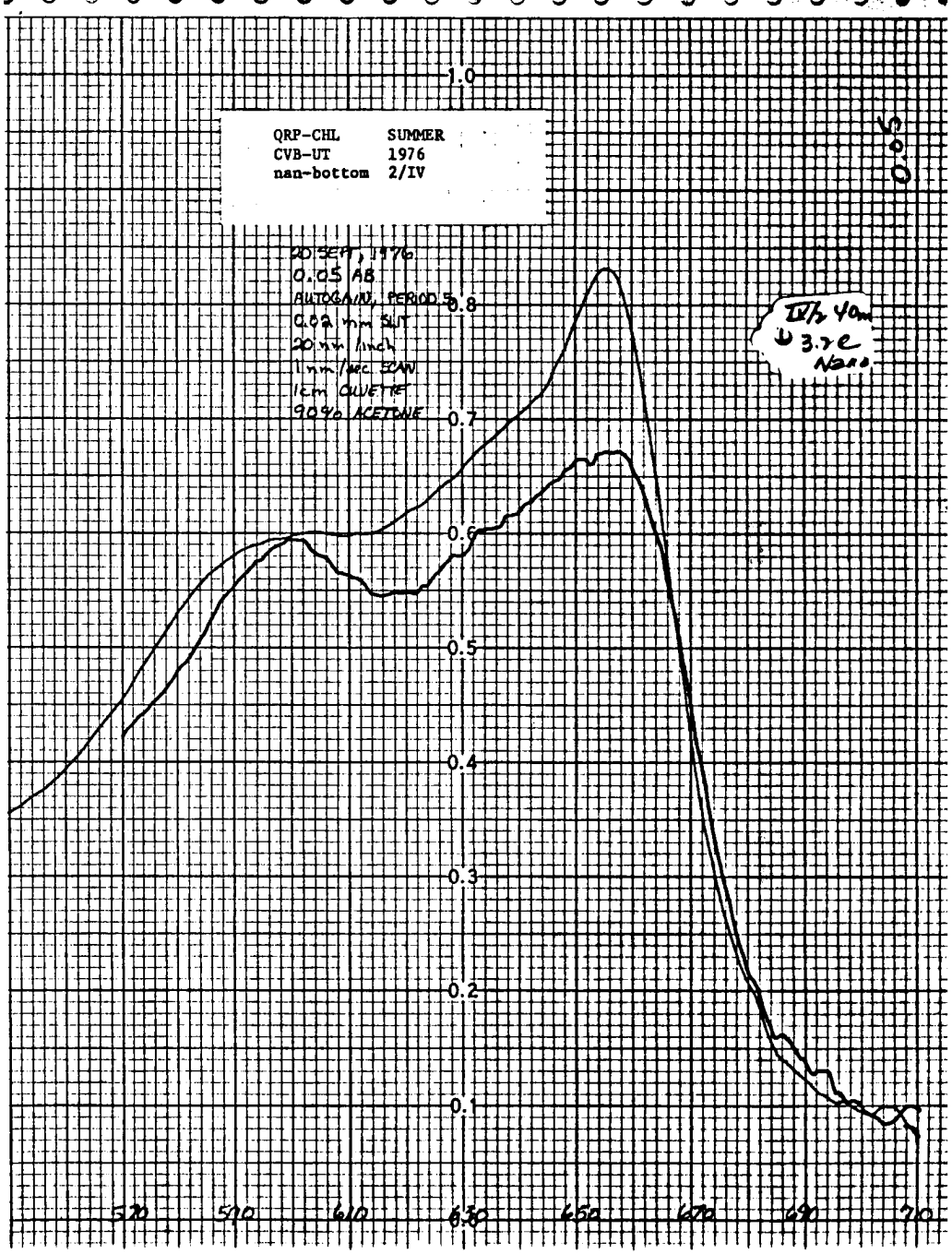
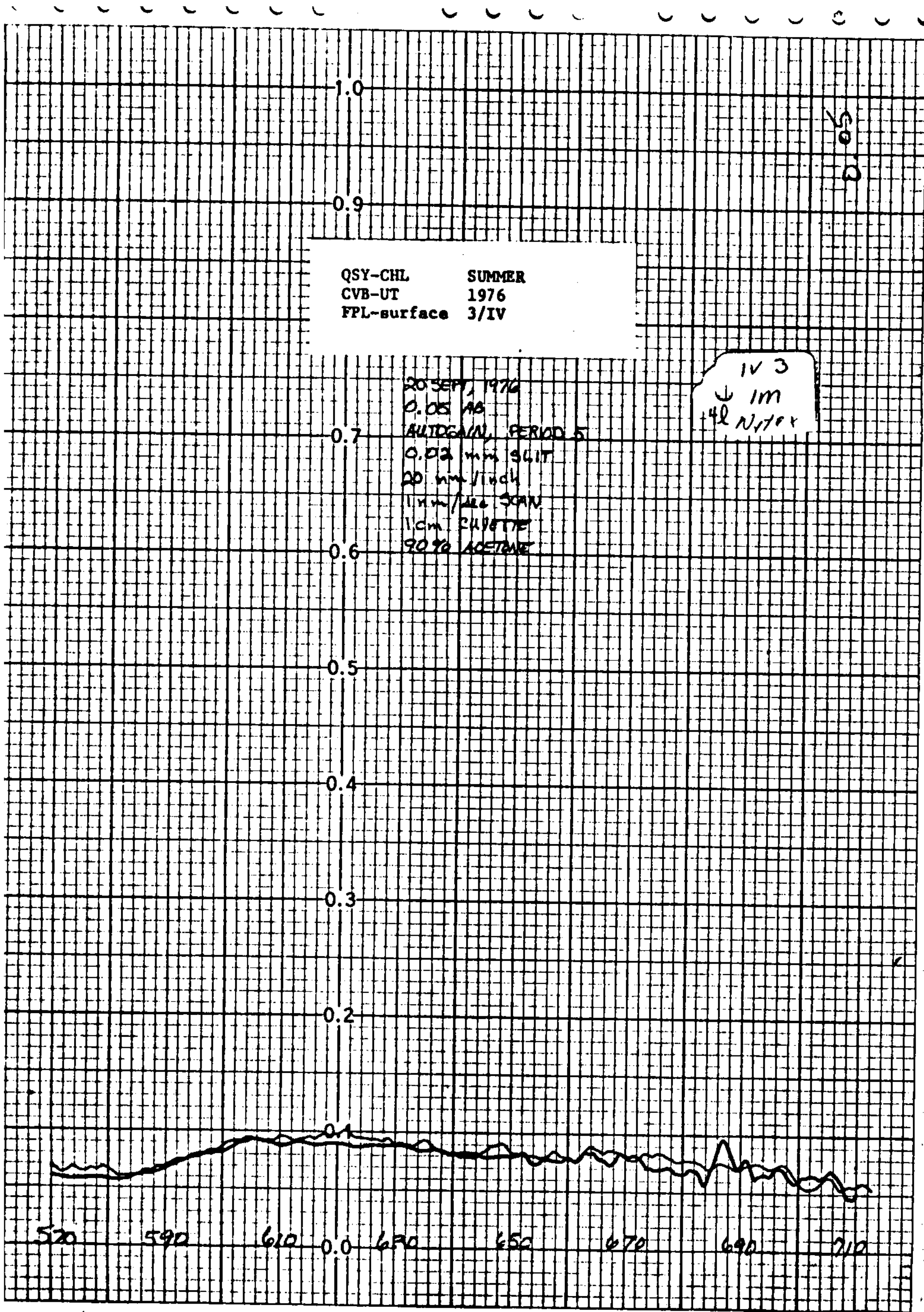


CHART NO. 12550
QTC-CHL SUMMER
CVB-UT 1976
nan-1/2 p.z. 3/IV
20 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 mm/inch
1 mm/sec SCAN
1 cm CUVETTE
90% ACETONE
IV/3 33m
3.2 ℓ
Nano
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
610
630
650
670
690
710


QRO-CHL SUMMER
CVB-UT 1976
fpl-bottom 2/IV
20 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 mm/sec SCAN
1cm CUVETTE
90% ACETONE
IV/2
40m
4ℓ Nitr
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.0
570
590
610
630
650
670
690
710


QRP-CHL SUMMER
CVB-UT 1976
nan-bottom 2/IV
20 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 mm/sec SCAN
1cm CUVETTE
90% ACETONE
IV/2 40m
3.7ℓ
1.0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710


QSY-CHL SUMMER
CVB-UT 1976
FPL-surface 3/IV
20 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1cm CUVETTE
90% ACETONE
1.0
0.9
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
610
650
670
690
710

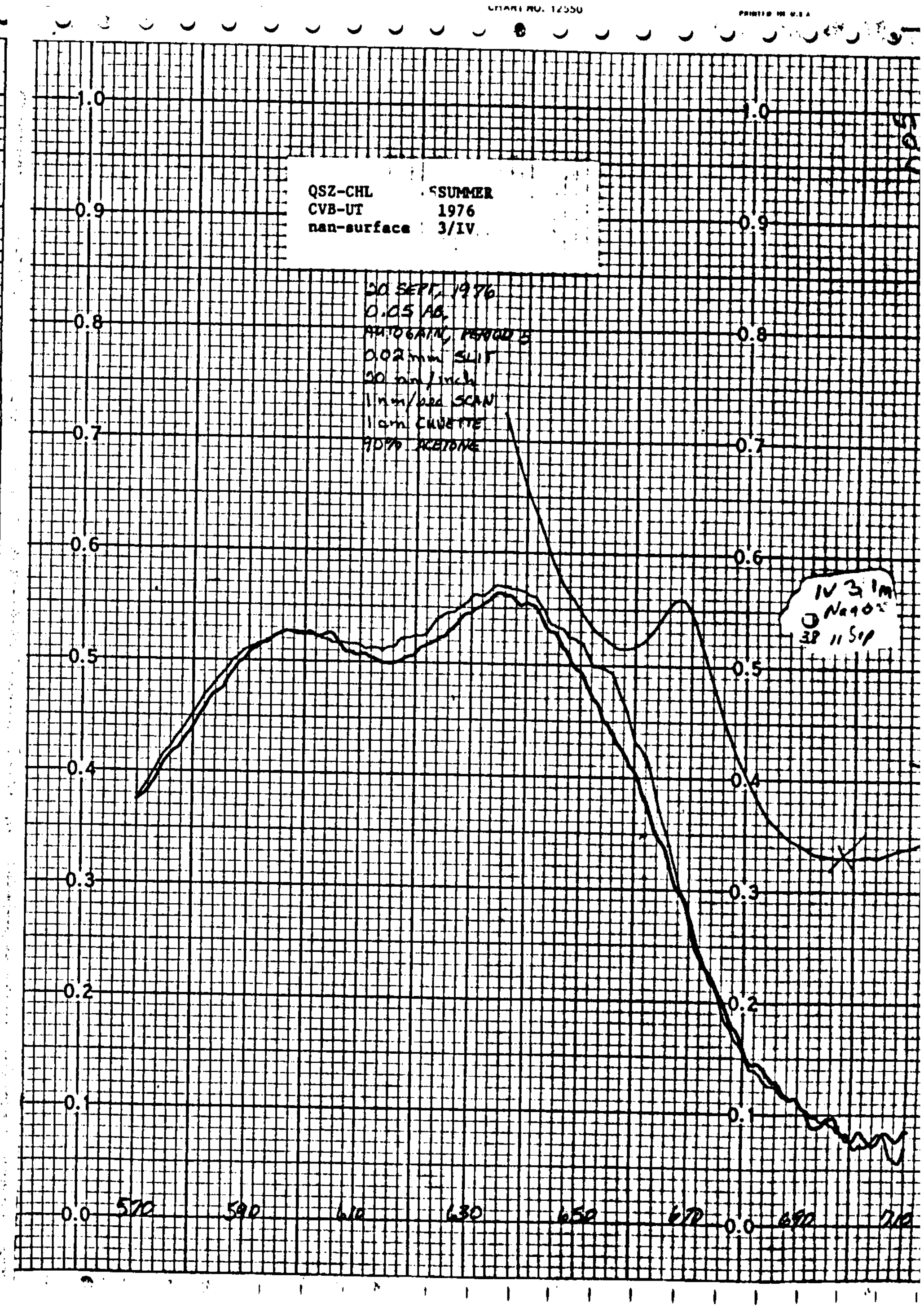
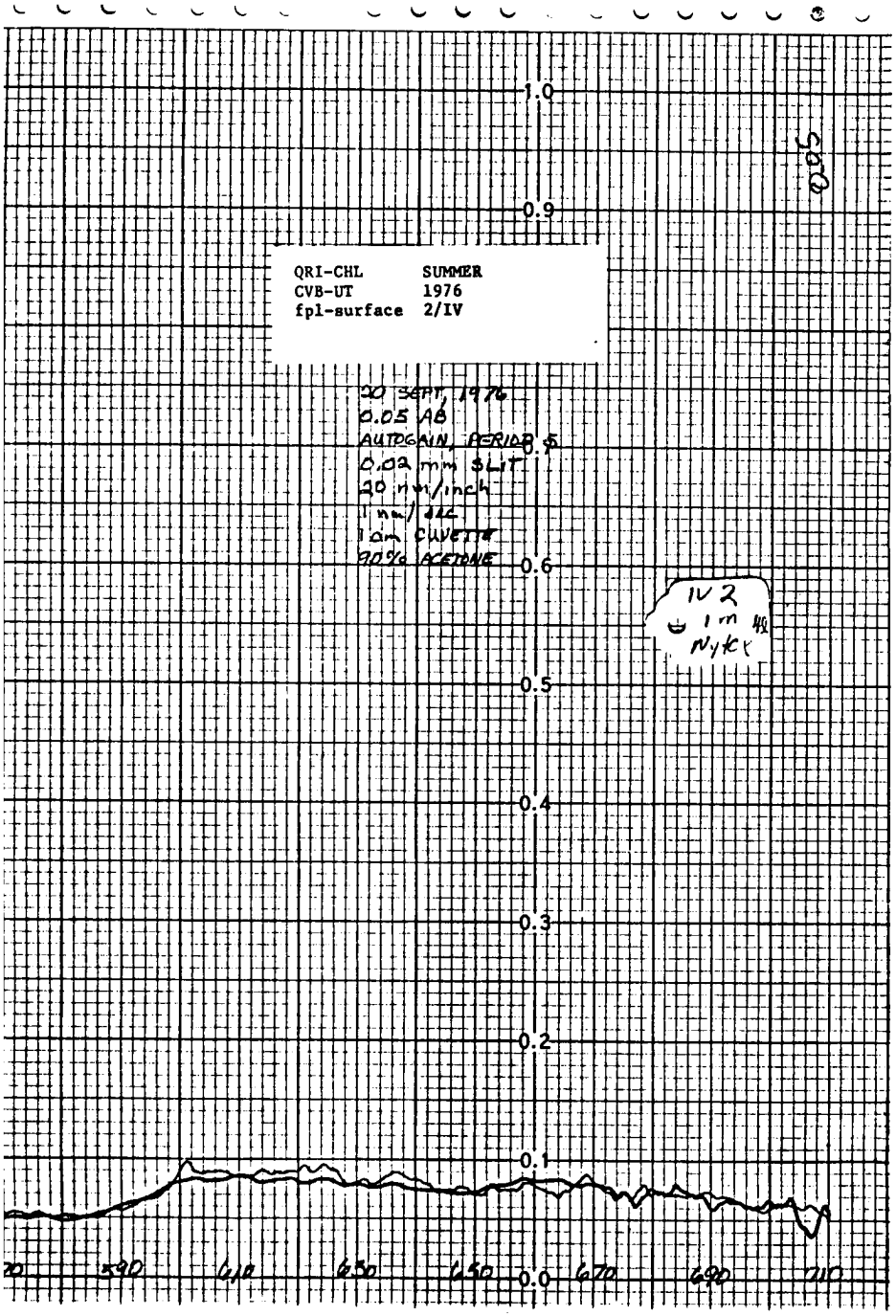
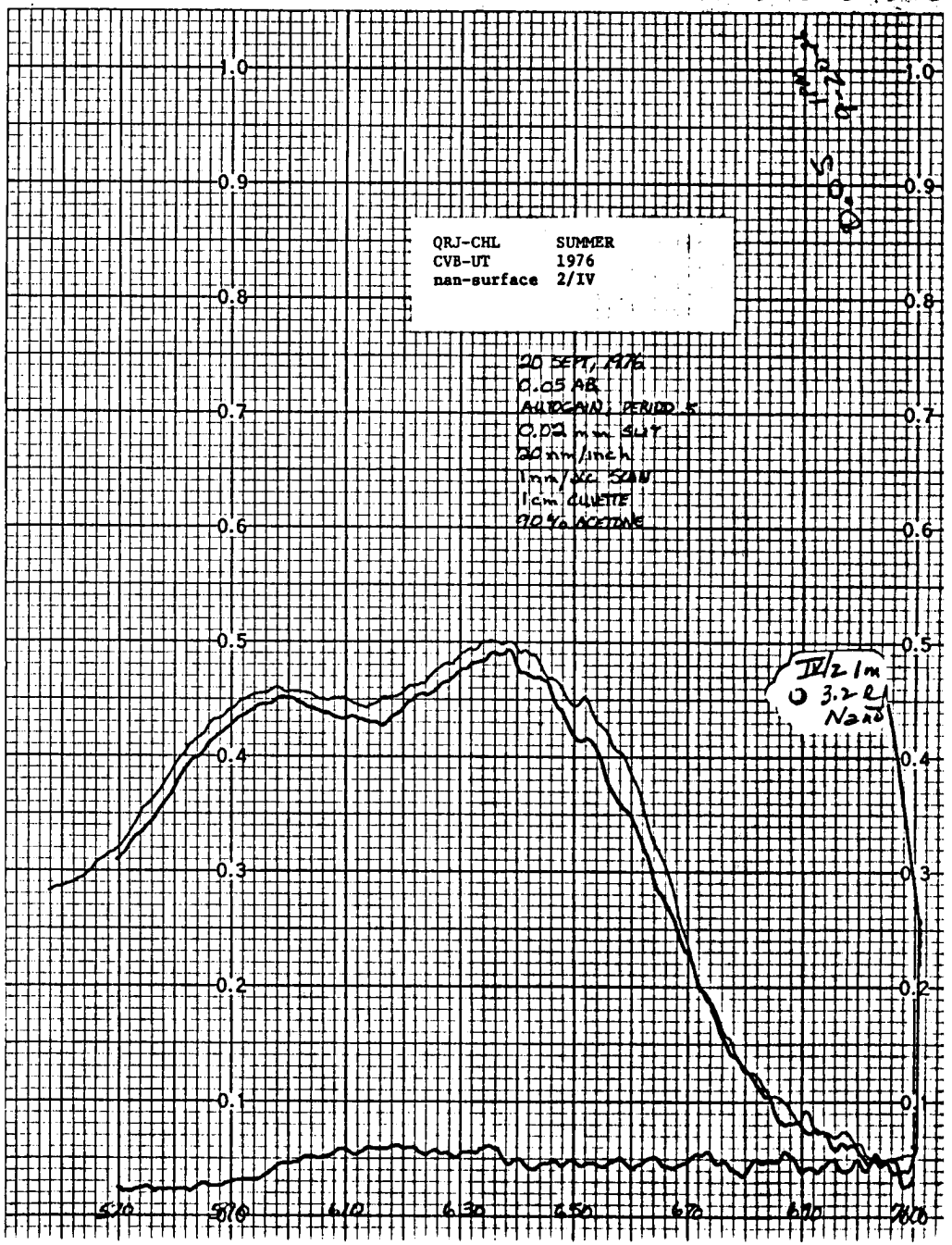
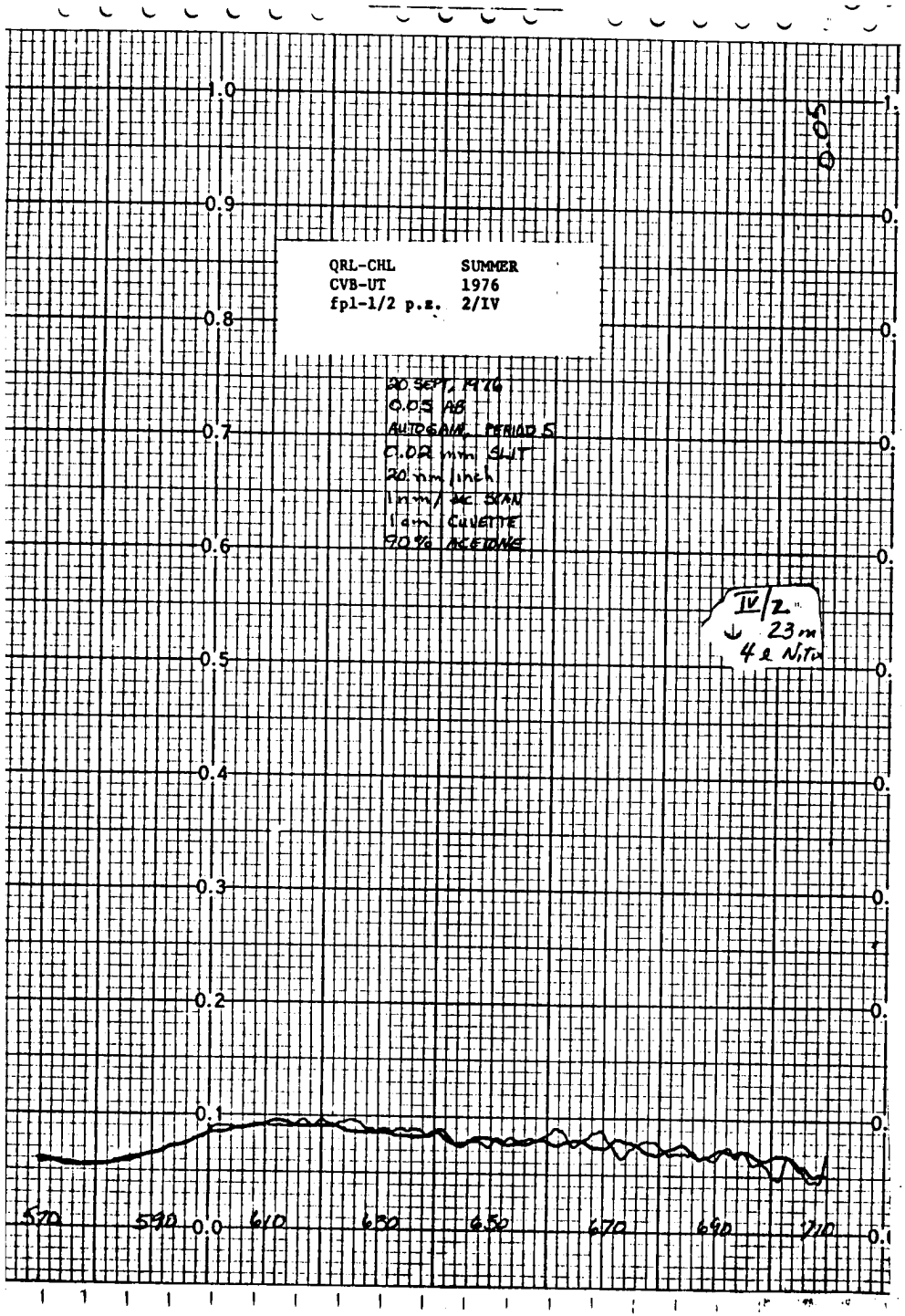
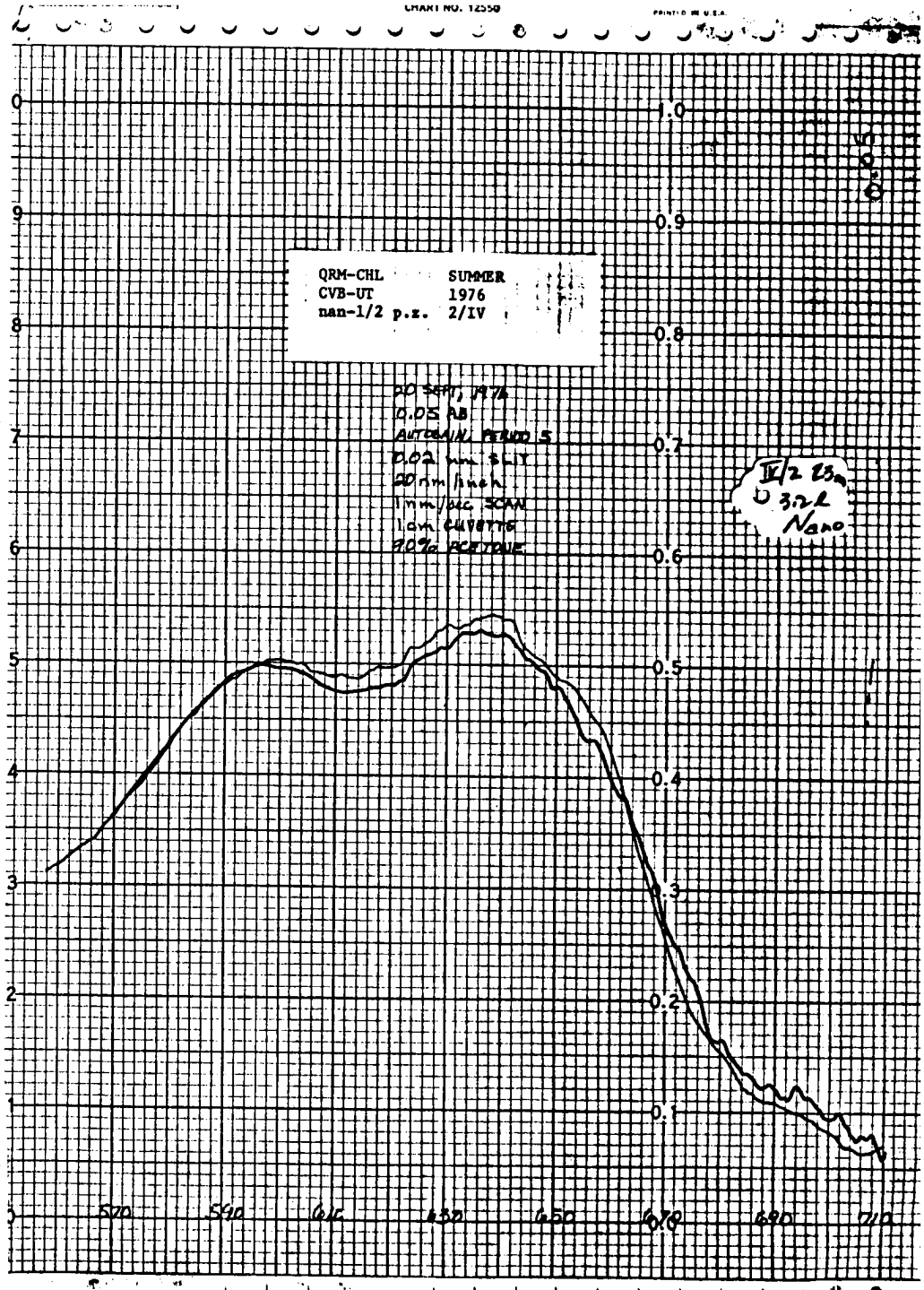


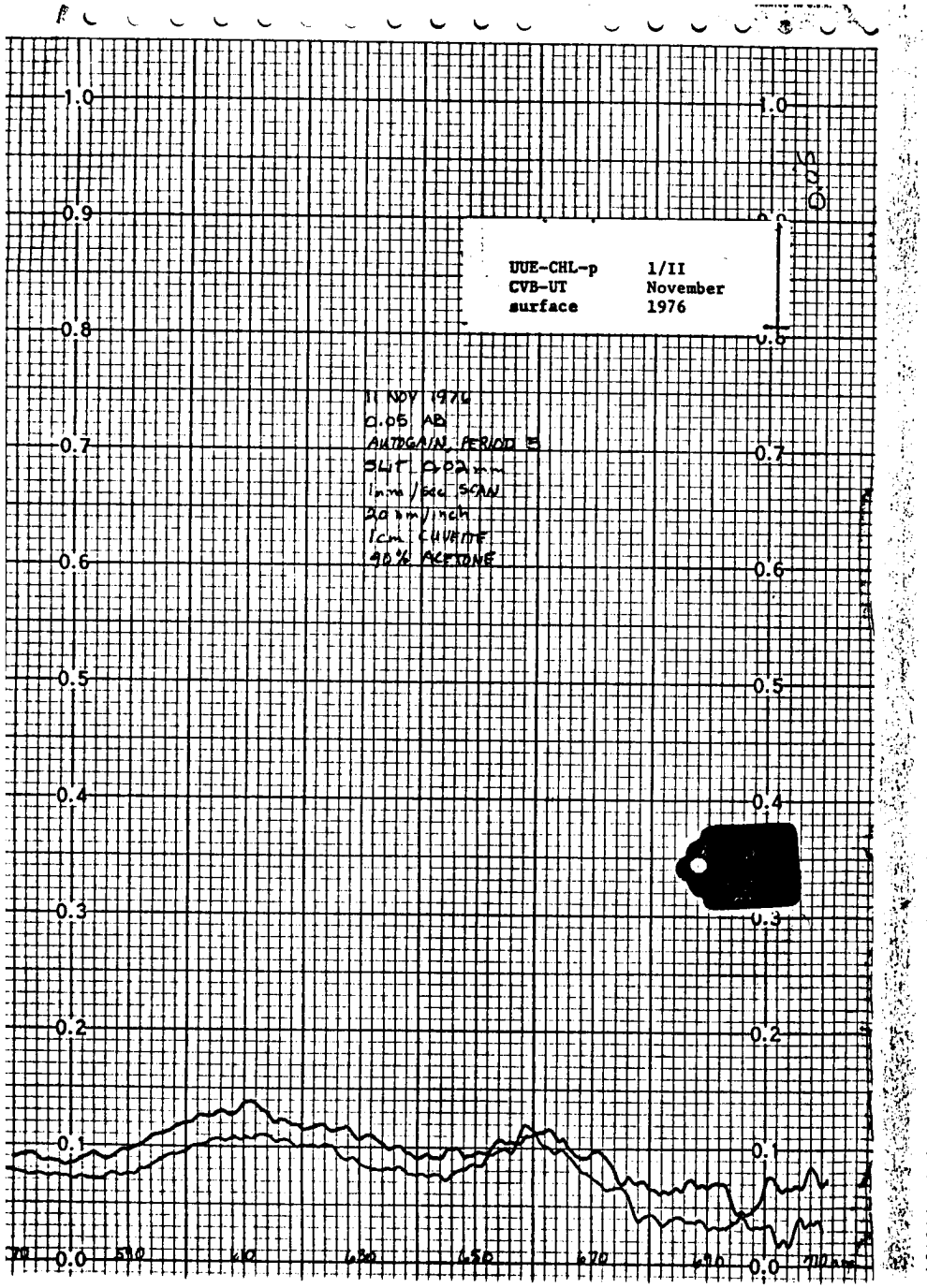
CHART NO. 12550
QSZ-CHL SUMMER
CVB-UT 1976
nan-surface 3/IV
20 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1 cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710

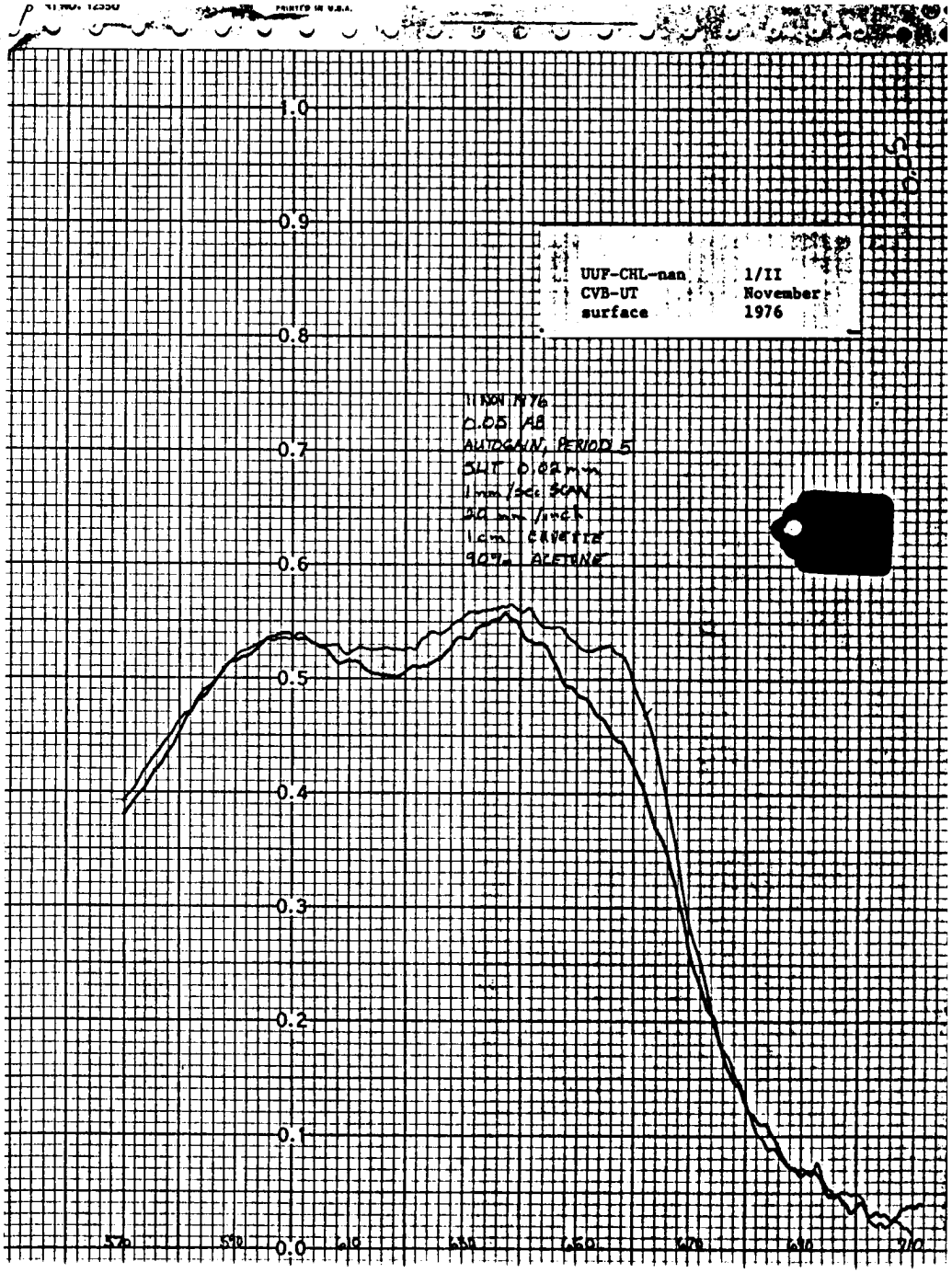

QRI-CHL SUMMER
CVB-UT 1976
fpl-surface 2/IV
20 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec
1cm CUVETTE
90% ACETONE
IV 2
1m
Nytex
1.0
0.9
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
610
630
650
670
690
710

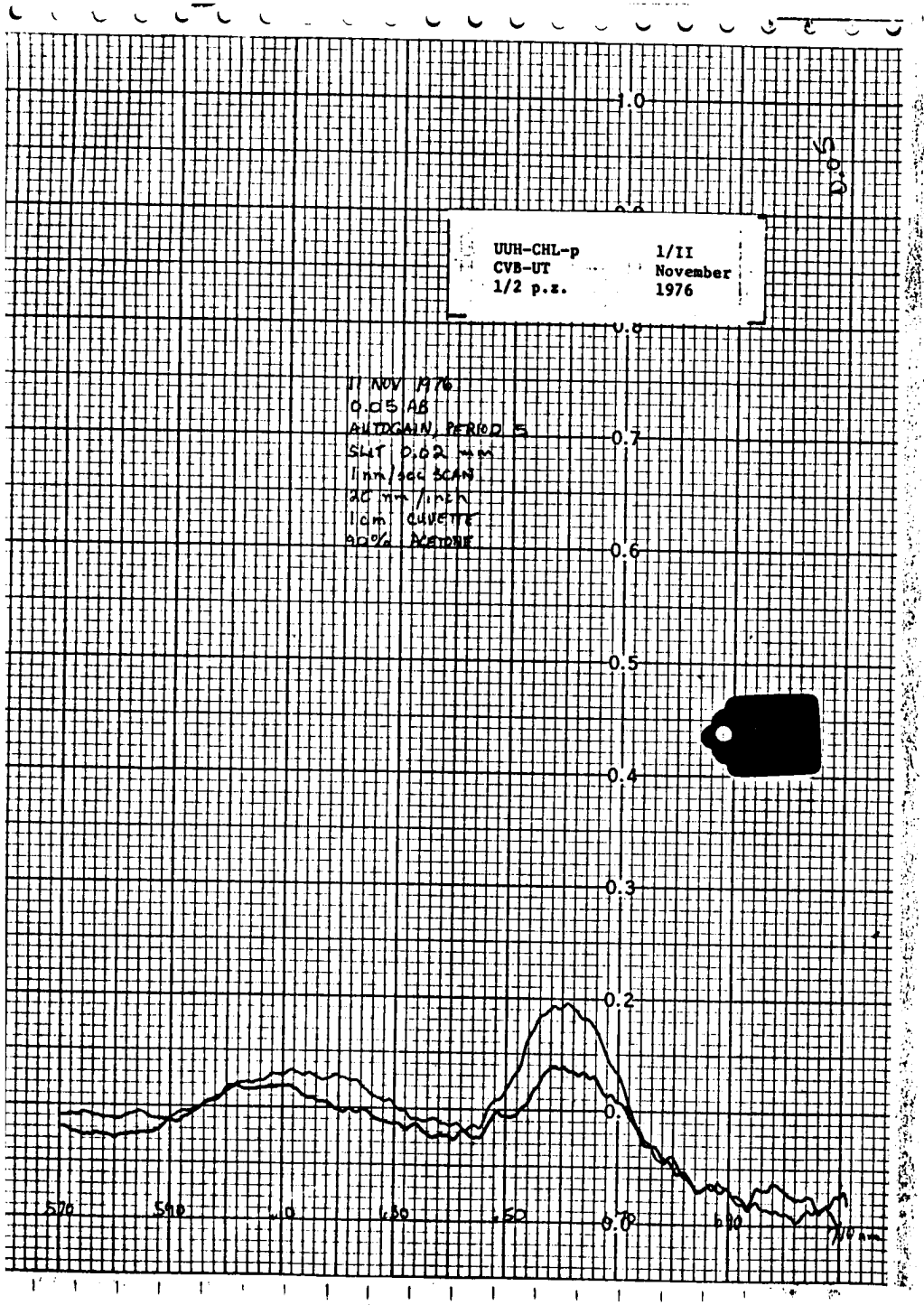

QRJ-CHL SUMMER
CVB-UT 1976
nan-surface 2/IV
20 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 nm/sec SCAN
1cm CUVETTE
90% ACETONE
IV/2 1m
3.2 g
Nylon
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
570
590
610
630
650
670
690
710

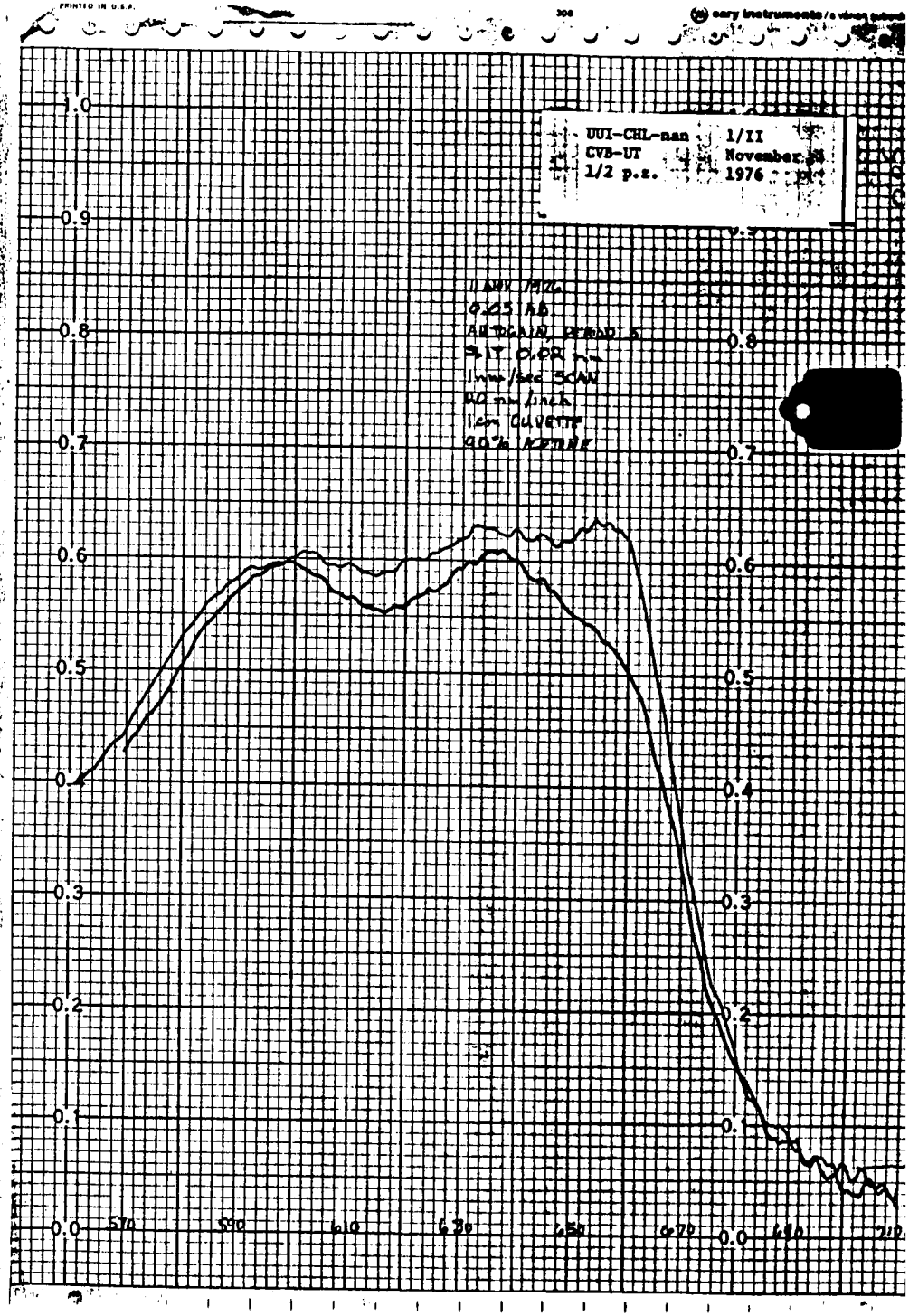

QRL-CHL SUMMER
CVB-UT 1976
fpl-1/2 p.z. 2/IV
20 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 mm/sec SCAN
1 cm CUVETTE
90% ACETONE
IV/2
↓ 23m
4 ℓ Nitr
0.05
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710

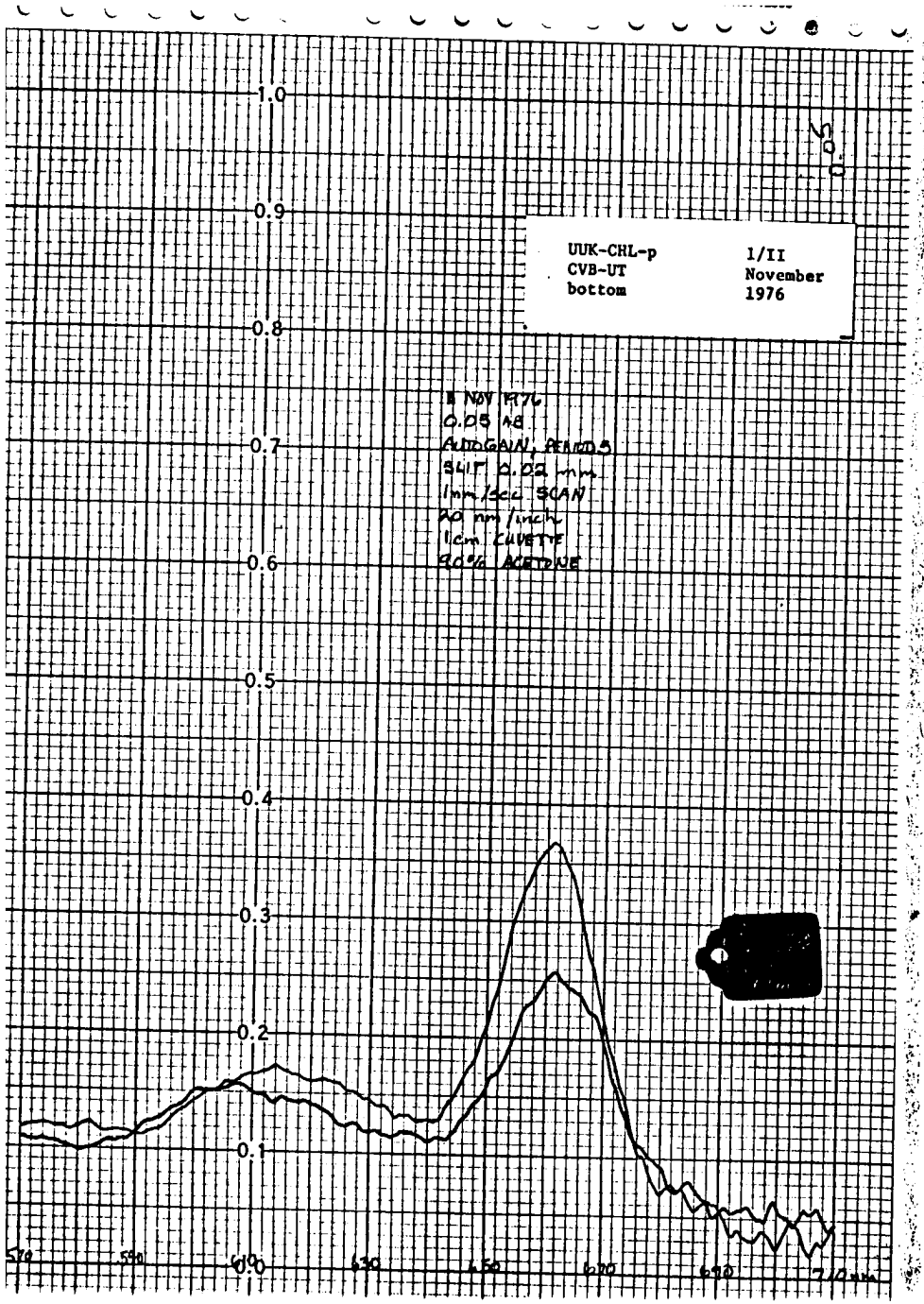

QRM-CHL SUMMER
CVB-UT 1976
nan-1/2 p.z. 2/IV
20 SEPT, 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
20 nm/inch
1 mm/sec SCAN
1 cm CUVETTE
90% ACETONE
IV/2 23m
↓ 3.2 ℓ
Nano
0.05
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710

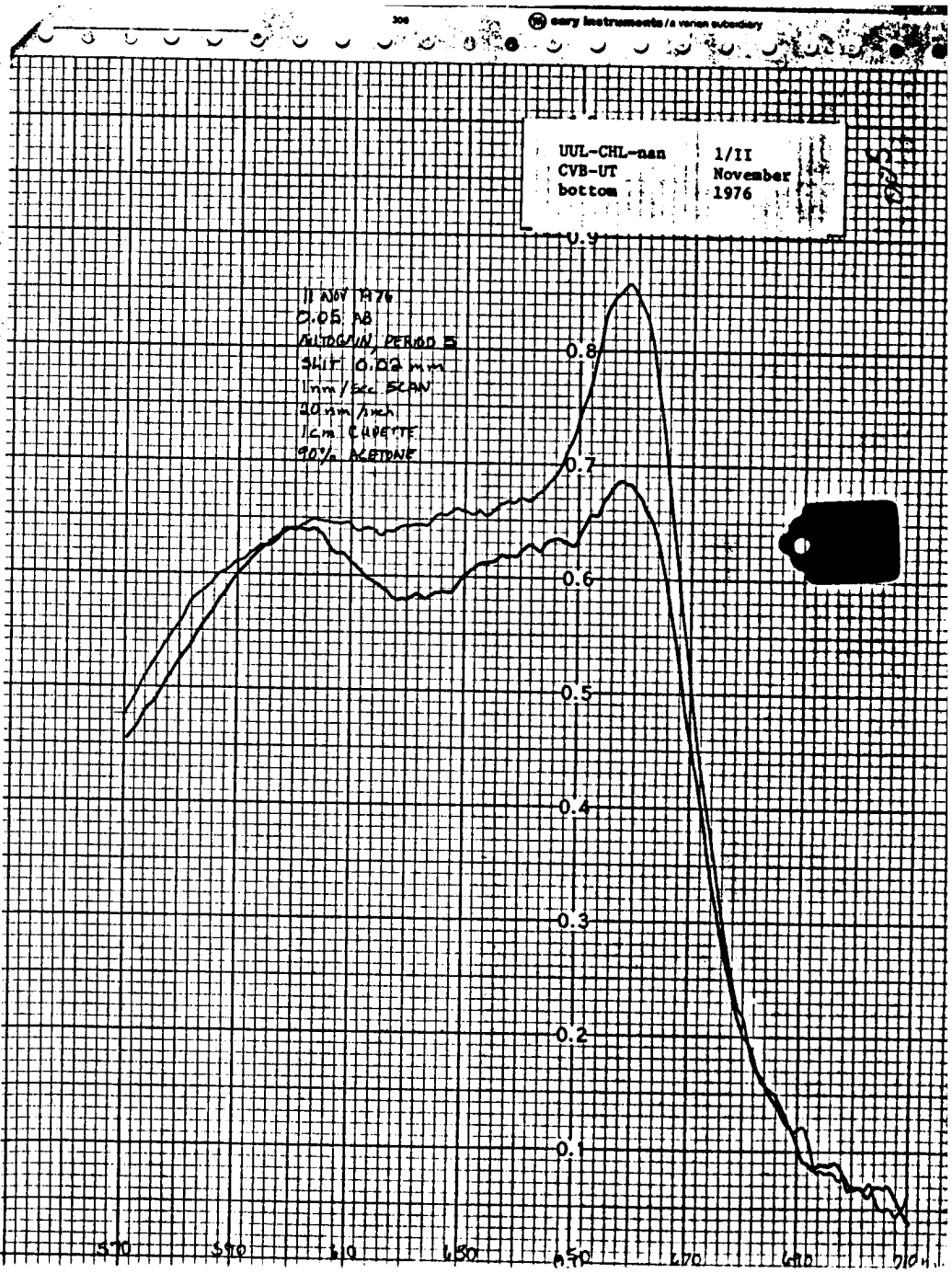

UUE-CHL-p 1/II
CVB-UT November
surface 1976
11 NOV 1976
0.05 AB
AUTOGAIN, PERIOD 5
SHT 0.02 m
1mm/sec SCAN
20 mm/inch
1cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
510
590
630
670
710nm

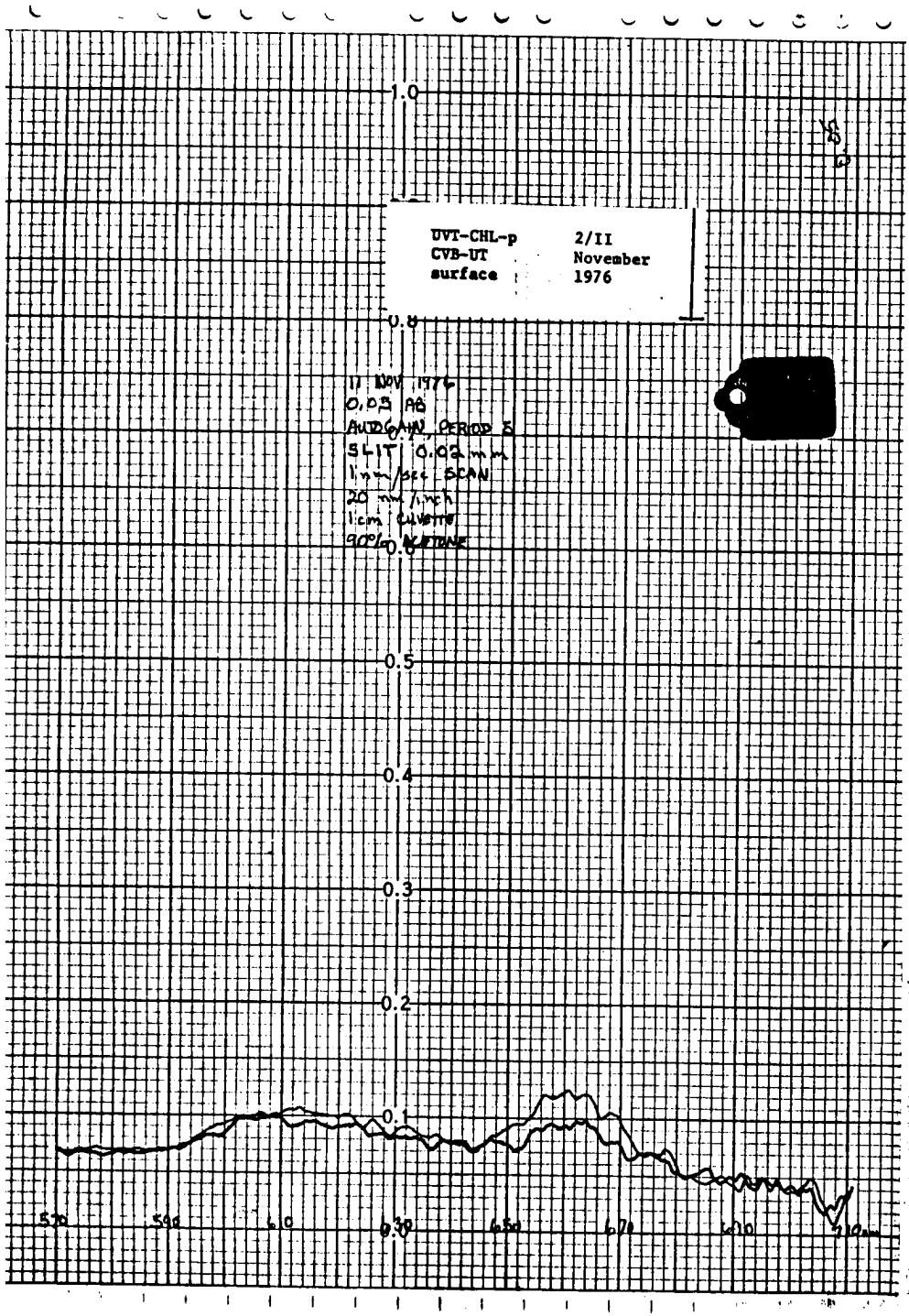

UUF-CHL-nan 1/II
CVB-UT November
surface 1976
11 NOV 1976
0.05 AB
AUTOGAIN, PERIOD 5
SHT 0.02 m
1mm/sec SCAN
20 mm/inch
1cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
610
650
690
730nm

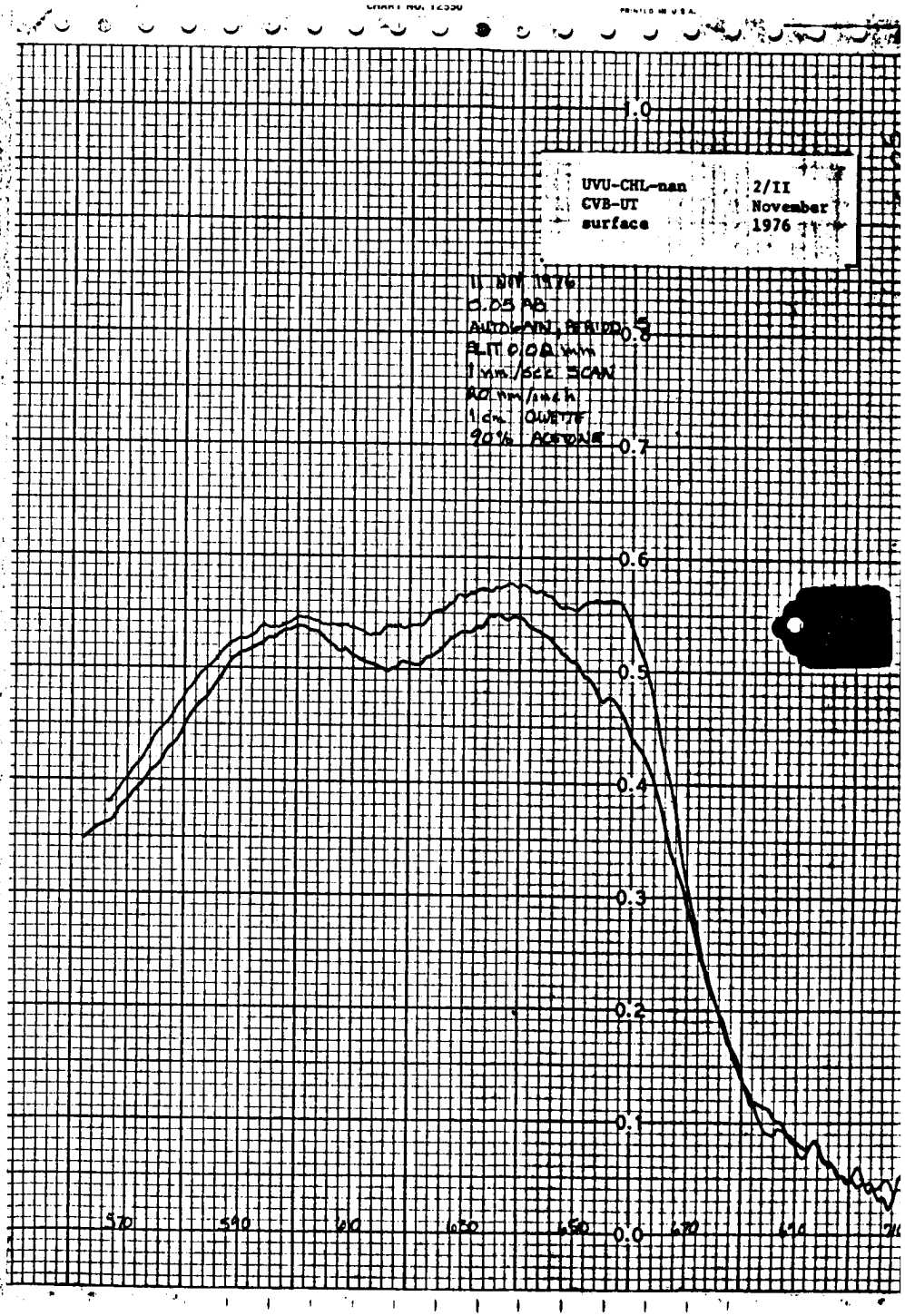

UUH-CHL-p
CVB-UT
1/2 p.z.
1/II
November
1976
11 NOV 1976
0.05 AB
AUTOGAIN, PERIOD 5
SLIT 0.02 mm
1 nm/sec SCAN
20 nm/inch
1 cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710
nm

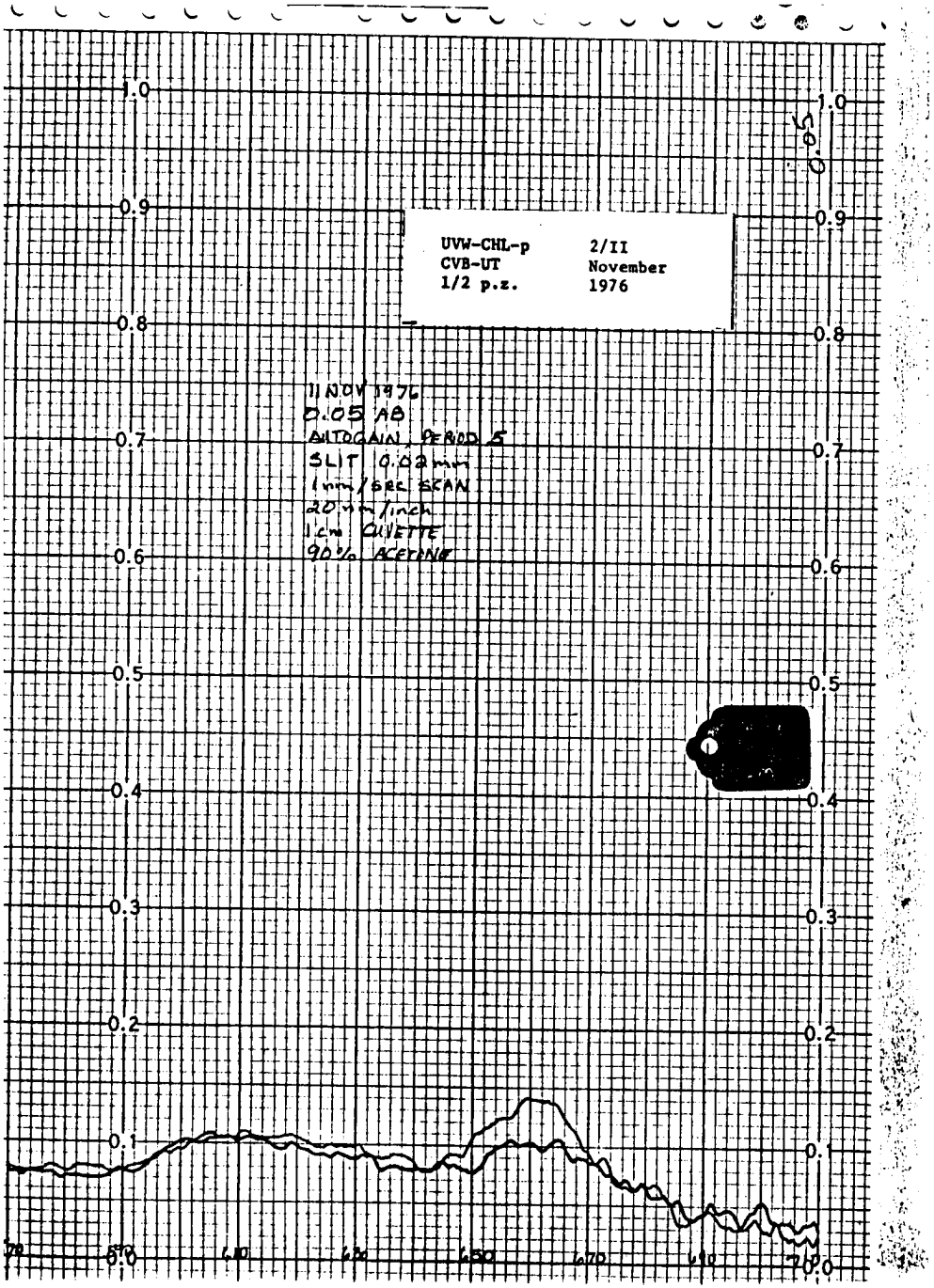

UUI-CHL-nan
CVB-UT
1/2 p.z.
1/II
November
1976
11 NOV 1976
0.05 AB
AUTOGAIN, PERIOD 5
SLIT 0.02 mm
1 nm/sec SCAN
20 nm/inch
1 cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710

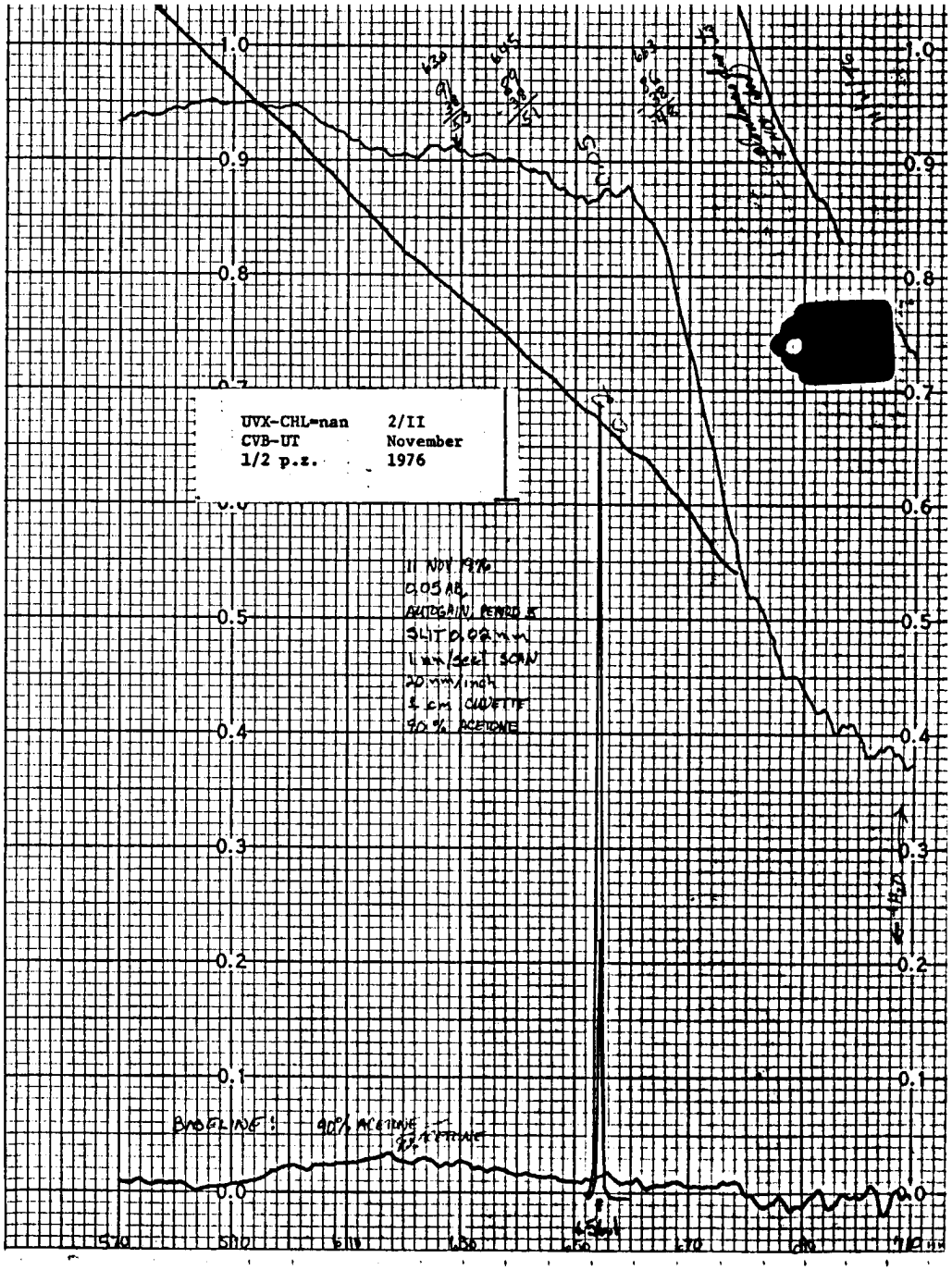

UUK-CHL-p
CVB-UT
bottom
1/II
November
1976
II NOV 1976
0.05 AB
AUTOGAIN, PERIOD 5
SLIT 0.02 mm
1mm/sec SCAN
20 nm/inch
1cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710 nm

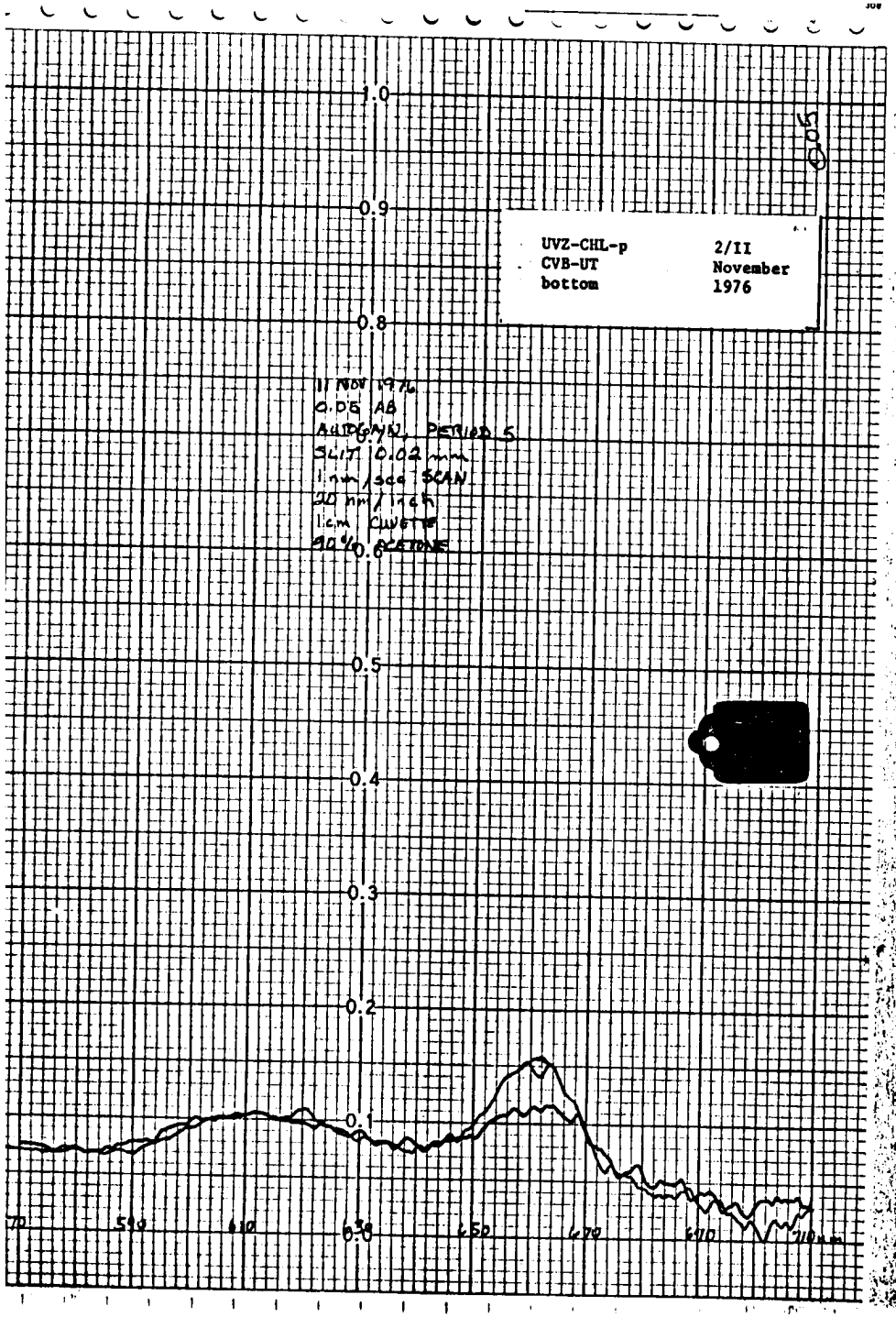

UUL-CHL-nan
CVB-UT
bottom
1/II
November
1976
II NOV 1976
0.05 AB
AUTOGAIN, PERIOD 5
SLIT 0.02 mm
1mm/sec SCAN
20 nm/inch
1cm CUVETTE
90% ACETONE
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710 nm

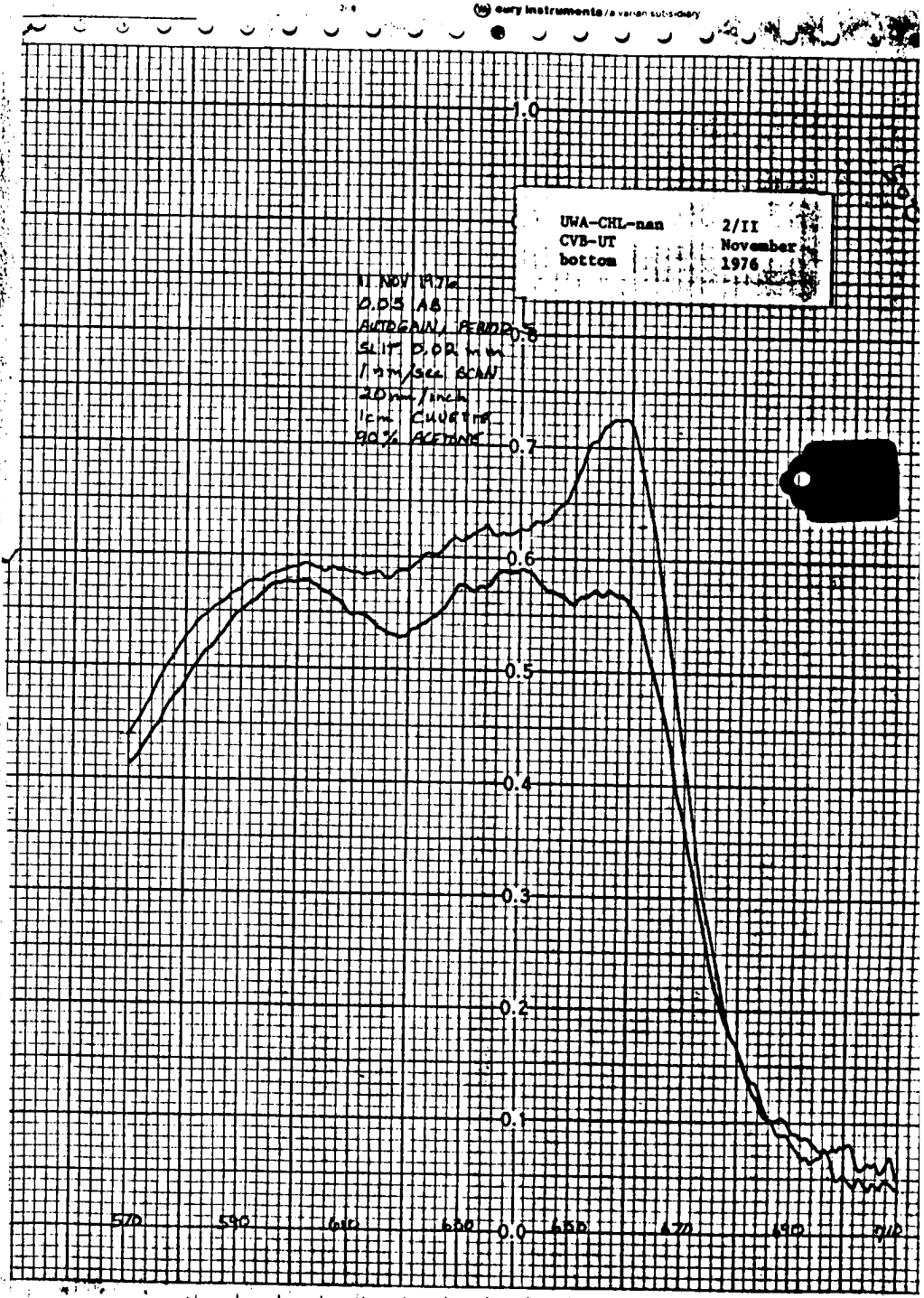

UVT-CHL-p
CVB-UT
surface
2/II
November
1976
11 NOV 1976
0.05 AD
AUTOGAIN, PERIOD 5
SLIT 0.02 mm
1 mm/sec SCAN
20 mm/inch
1 cm CUVETTE
90% ACETONE
1.0
0.8
0.6
0.5
0.4
0.3
0.2
0.1
530
590
650
710
770
830
890 mμ

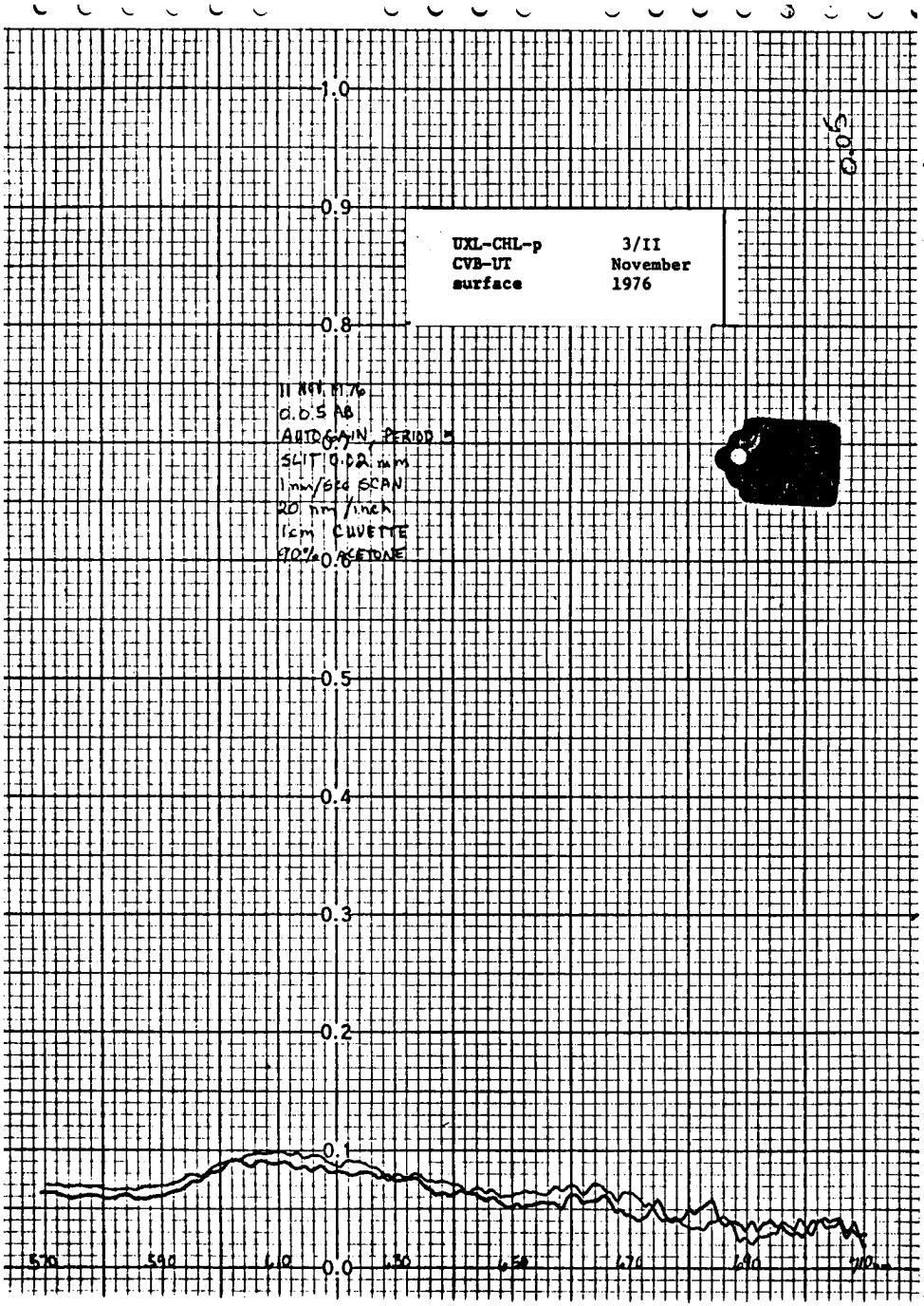

UVU-CHL-nan
CVB-UT
surface
2/II
November
1976
11 NOV 1976
0.05 AD
AUTOGAIN, PERIOD 5
SLIT 0.02 mm
1 mm/sec SCAN
20 mm/inch
1 cm CUVETTE
90% ACETONE
1.0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
530
590
650
710
770
830
890 mμ

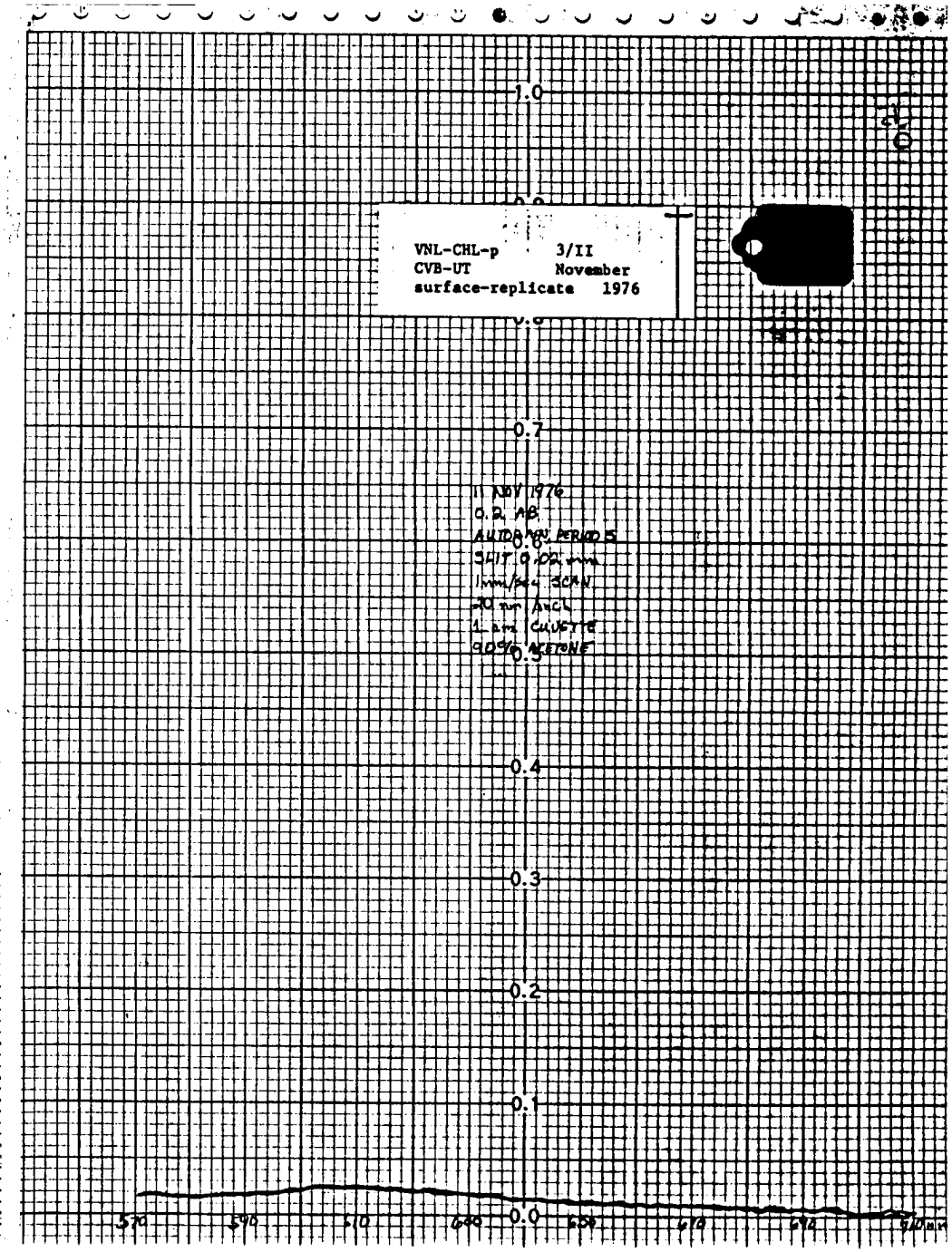

UVW-CHL-p 2/II
CVB-UT November
1/2 p.z. 1976
11 NOV 1976
0.05 AB
AUTOGAIN, PERIOD 5
SLIT 0.02 mm
1 mm/sec SCAN
20 mm/inch
1 cm CUVETTE
90% ACETONE

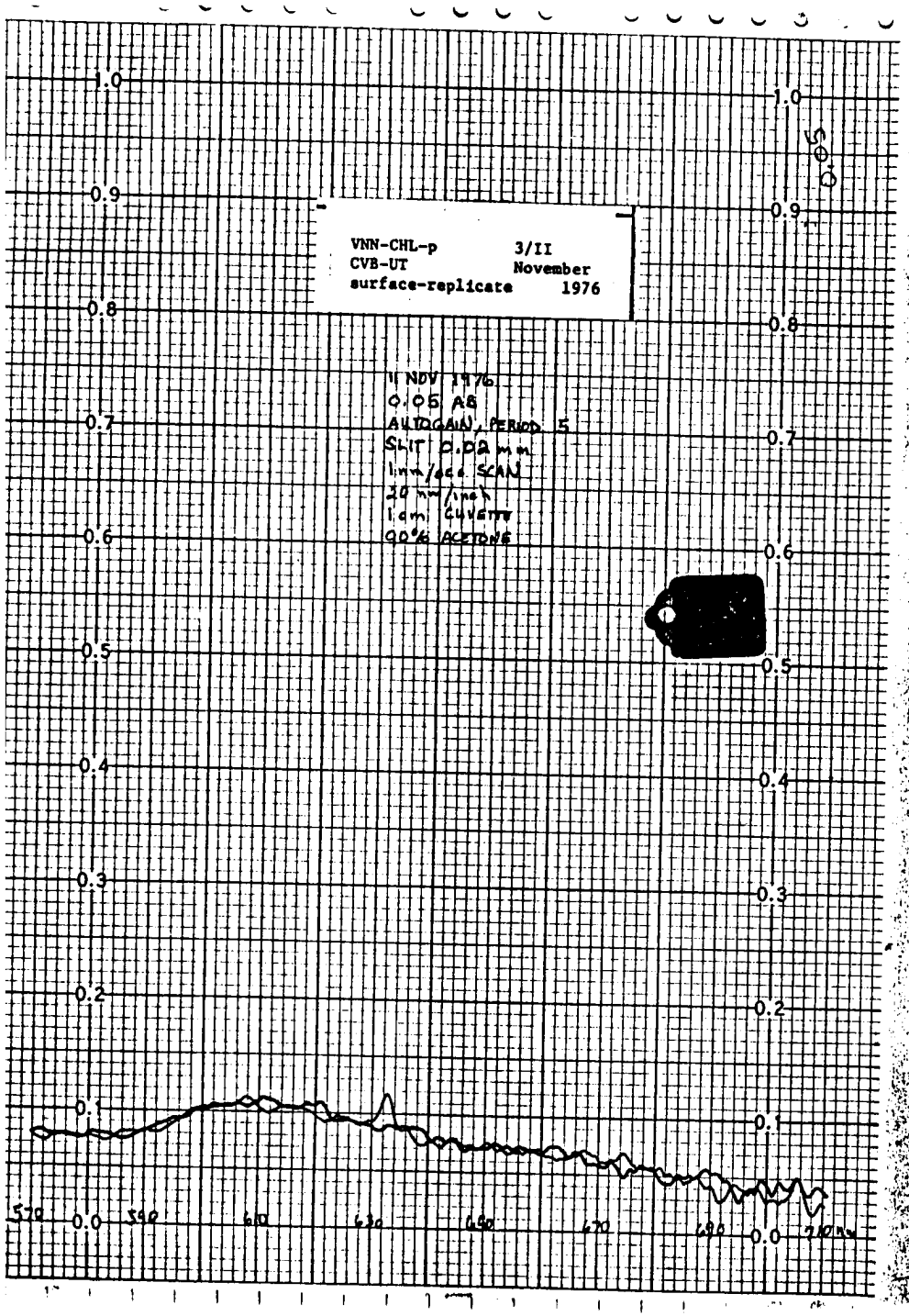

UVX-CHL-nan 2/II
CVB-UT November
1/2 p.z. 1976
11 NOV 1976
0.05 AB
AUTOGAIN, PERIOD 5
SLIT 0.02 mm
1 cm/sec SCAN
20 mm/inch
1 cm CUVETTE
90% ACETONE
BASELINE
90% ACETONE

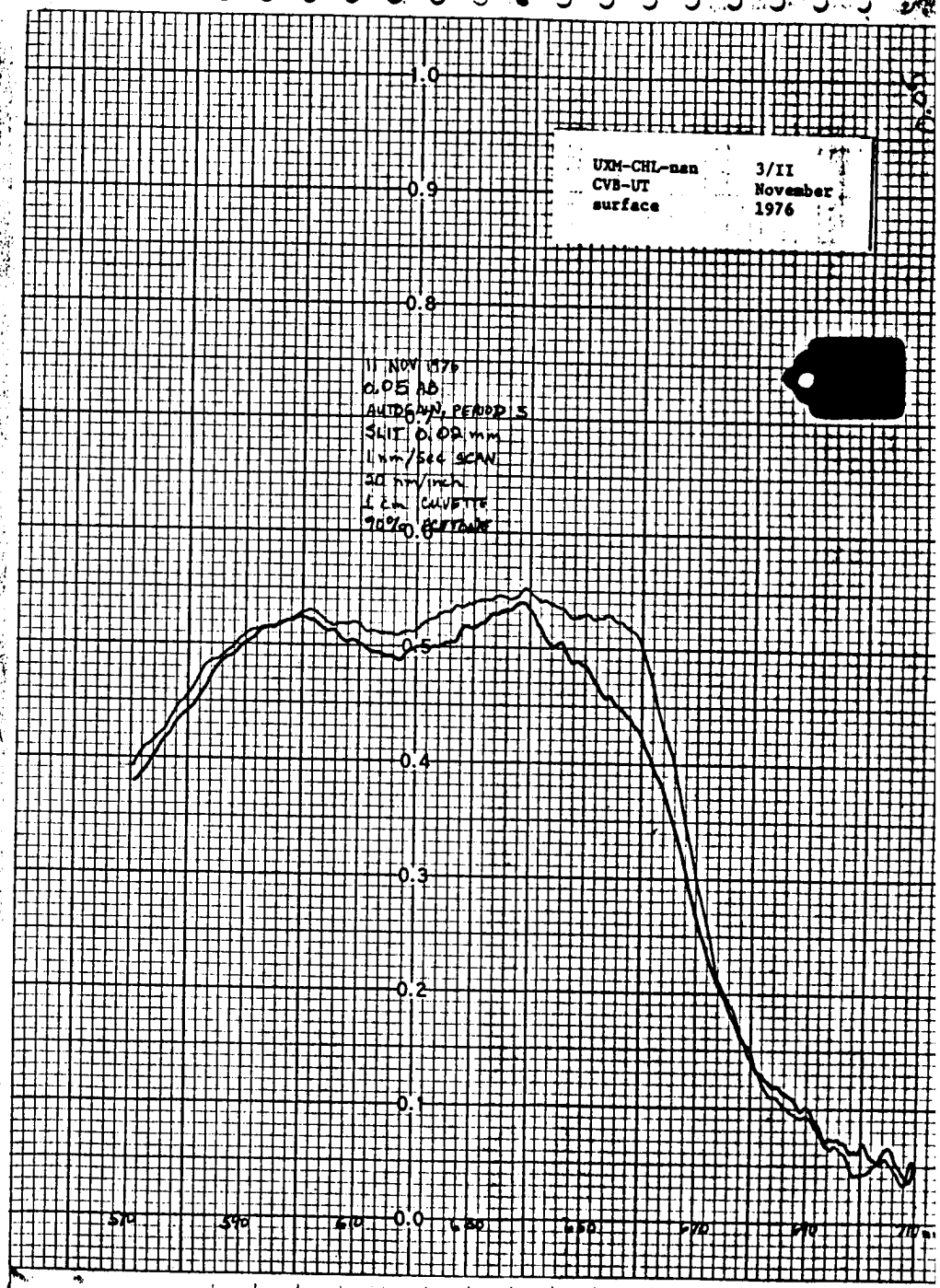

UVZ-CHL-p
CVB-UT
bottom
2/II
November
1976
11 NOV 1976
0.05 AB
AUTOGAIN, PERIOD 5
SLIT 0.02 mm
1 nm/sec SCAN
20 mm/inch
1 cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
510
610
630
650
670
690
710 nm

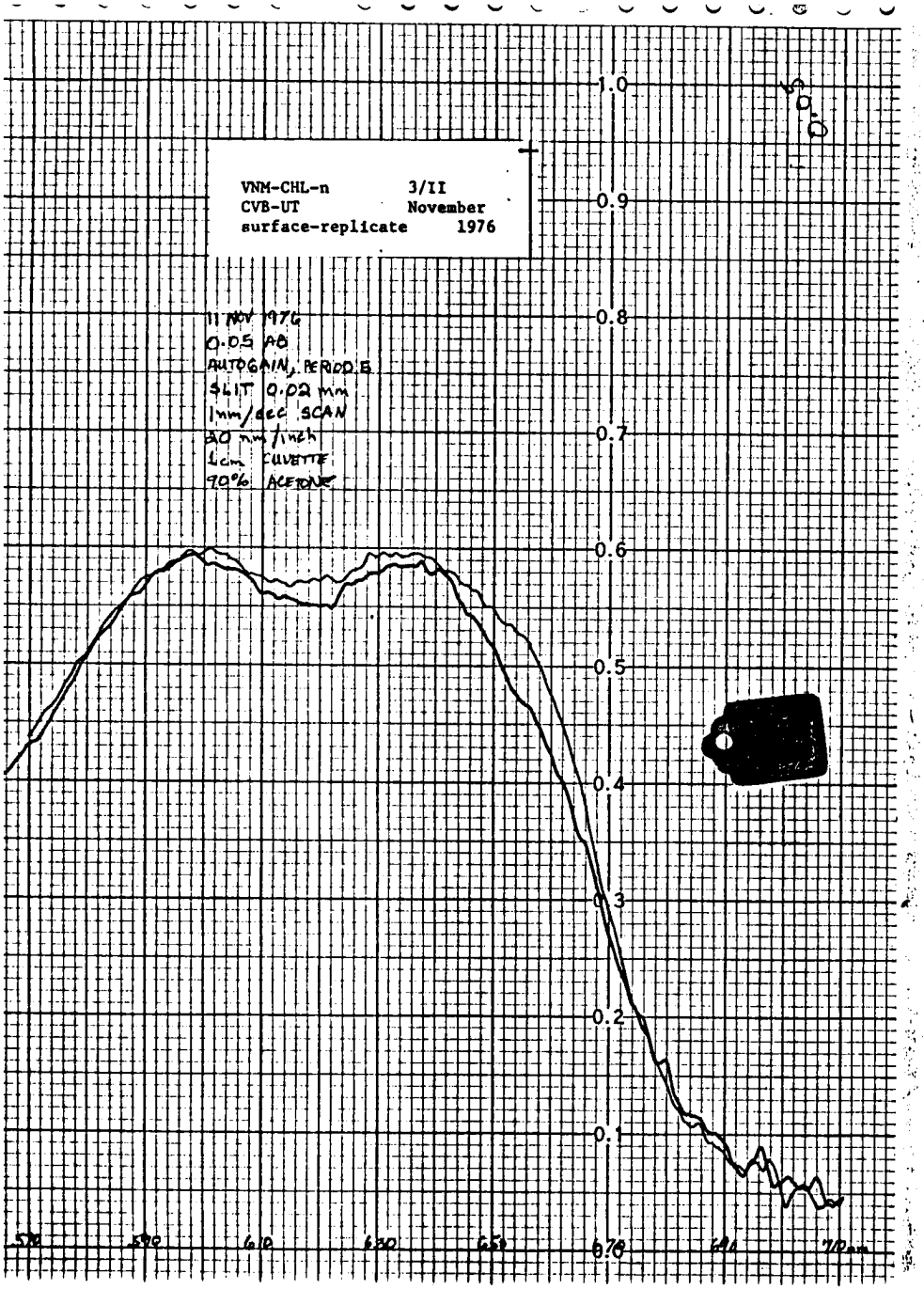

UWA-CHL-nan
CVB-UT
bottom
2/II
November
1976
11 NOV 1976
0.05 AB
AUTOGAIN, PERIOD 5
SLIT 0.02 mm
1 nm/sec SCAN
20 mm/inch
1 cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710

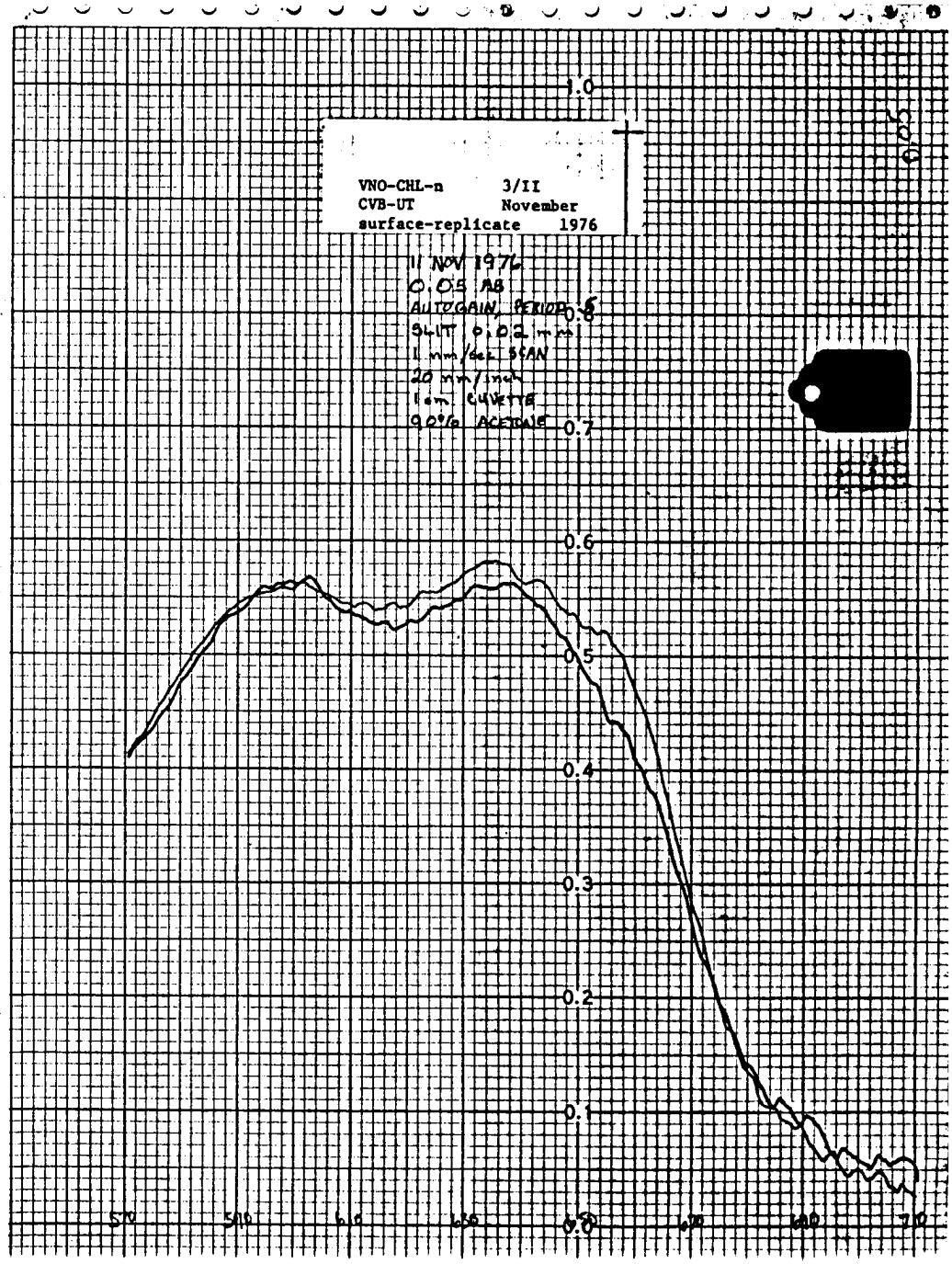

UXL-CHL-p 3/II
CVB-UT November
surface 1976
11 NOV 1976
0.05 AB
AUTOGAIN PERIOD 5
SLIT 0.02 mm
1 mm/sec SCAN
20 nm/inch
1cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710nm

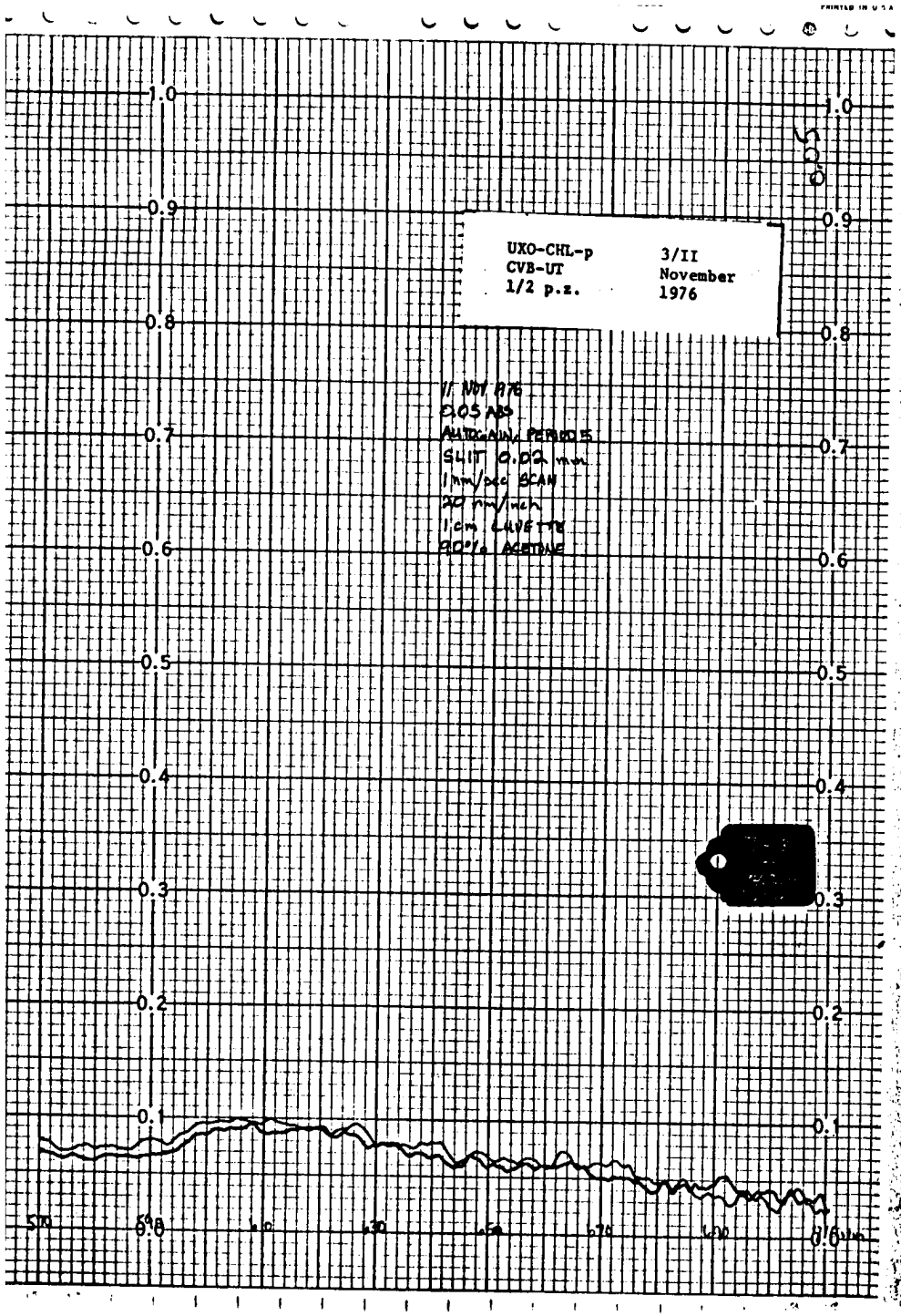

VNL-CHL-p 3/II
CVB-UT November
surface-replicate 1976
11 NOV 1976
0.2 AB
AUTOGAIN PERIOD 5
SLIT 0.02 mm
1 mm/sec SCAN
20 nm/inch
1-cm CUVETTE
90% ACETONE
1.0
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710nm

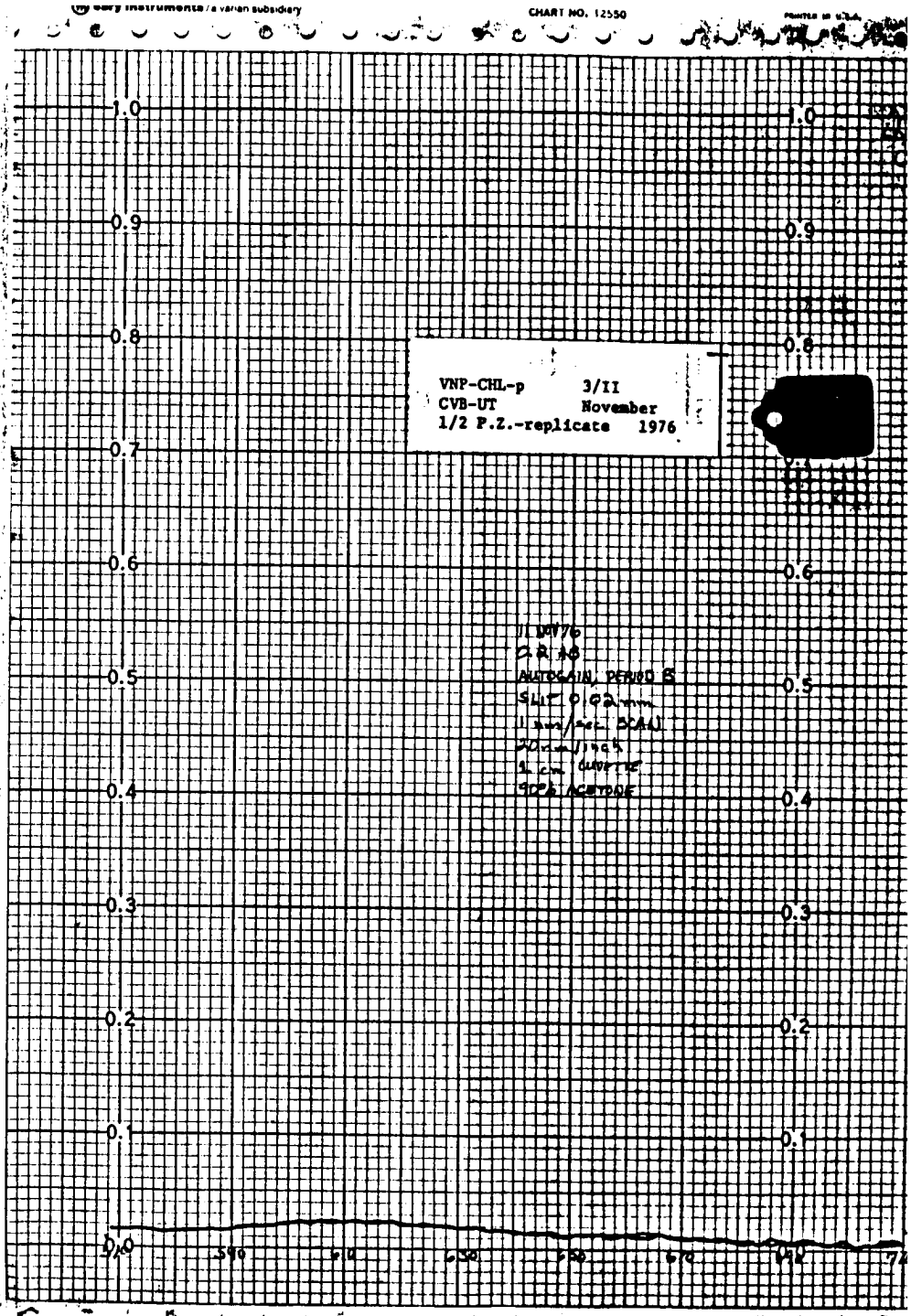

VNN-CHL-p 3/II
CVB-UT November
surface-replicate 1976
II NOV 1976
0.05 AB
AUTOGAIN, PERIOD 5
SLIT 0.02 mm
1 mm/sec SCAN
10 mm/inch
1 cm CUVETTE
90% ACETONE
OD
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
510
590
610
630
650
670
690
710 nm

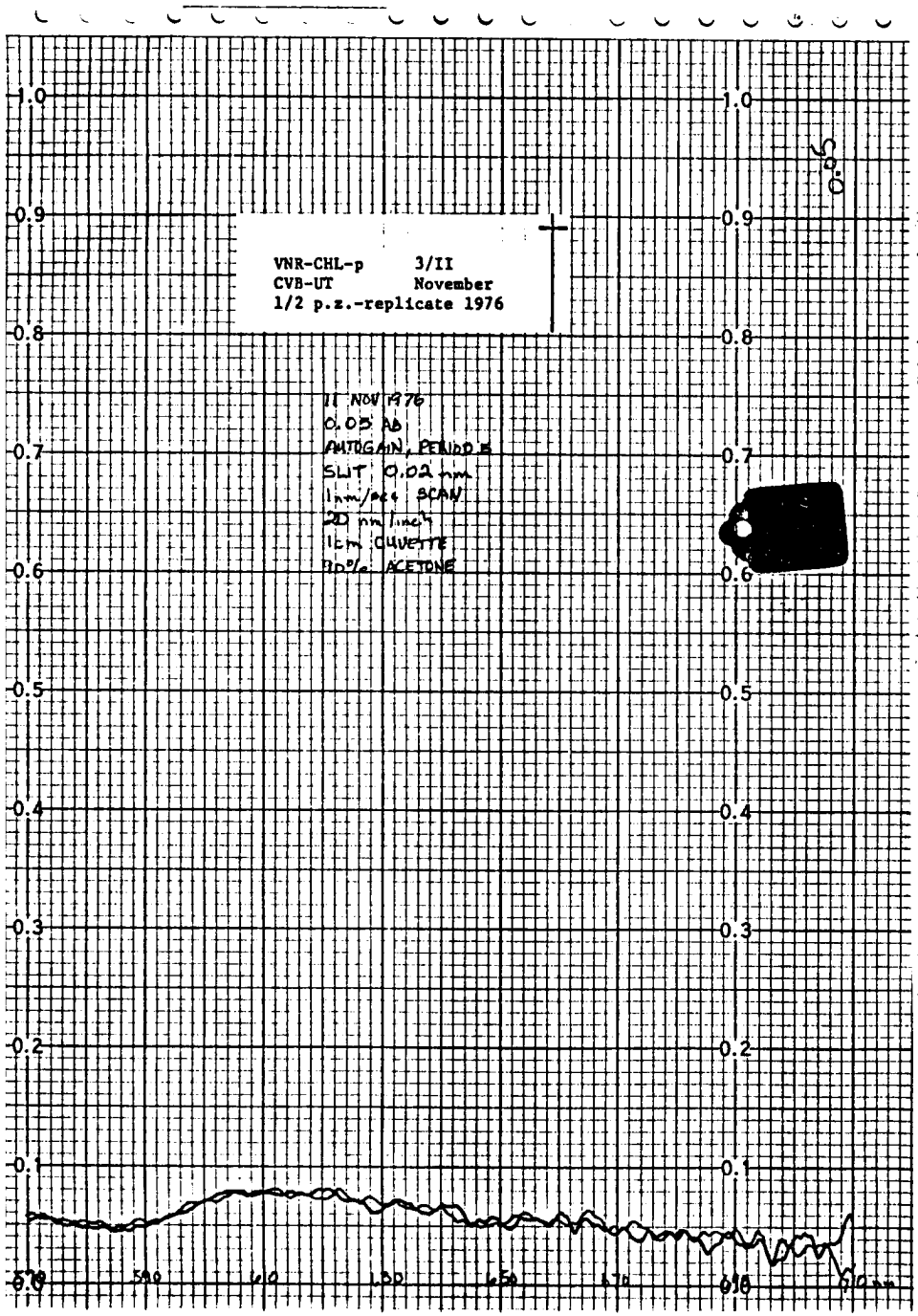

UXM-CHL-nan 3/II
CVB-UT November
surface 1976
II NOV 1976
0.05 AB
AUTOGAIN, PERIOD 5
SLIT 0.02 mm
1 mm/sec SCAN
10 mm/inch
1 cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
510
590
610
630
650
670
690
710 nm

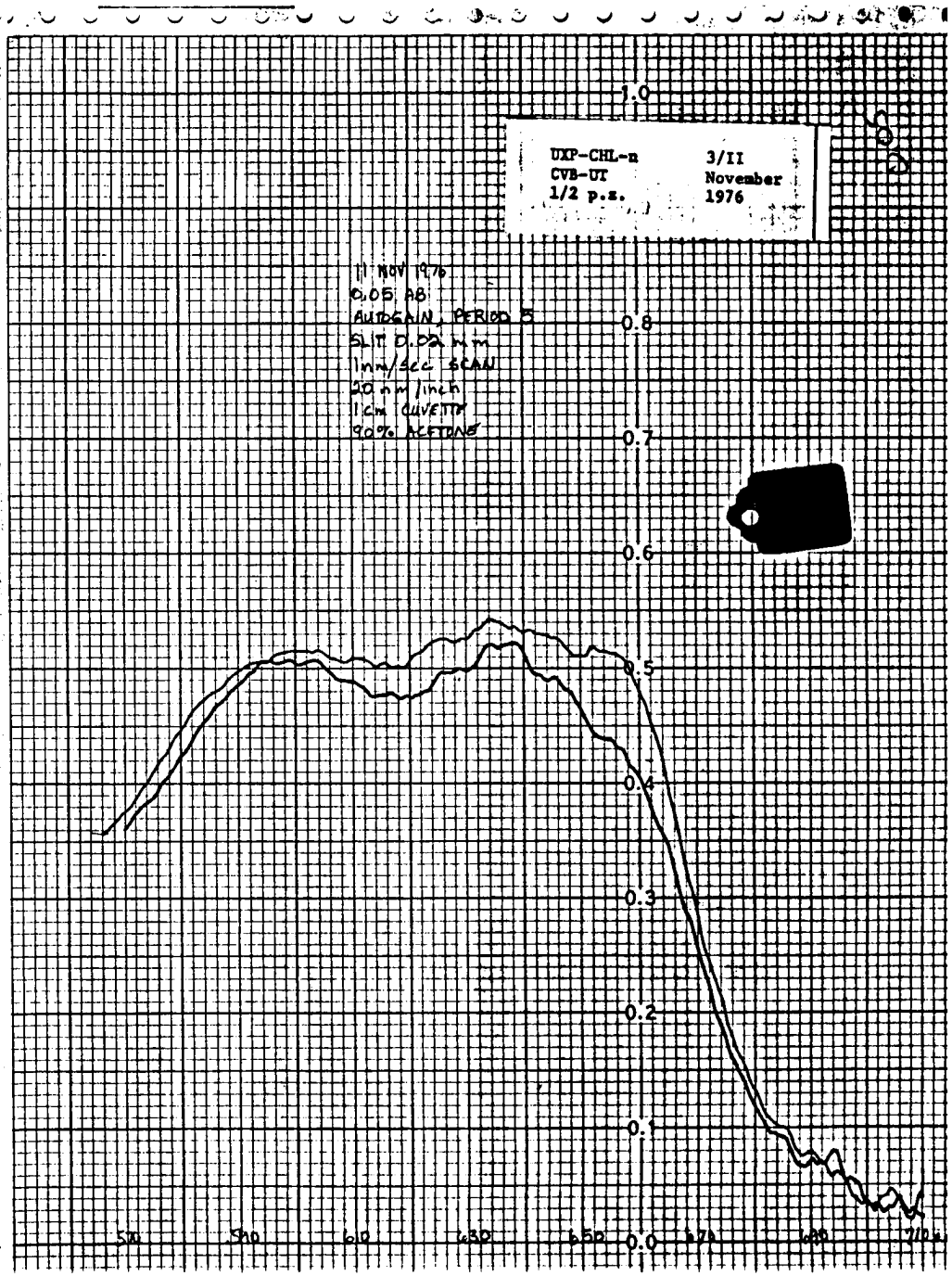

VNM-CHL-n 3/II
CVB-UT November
surface-replicate 1976
11 NOV 1976
0.05 AB
AUTOGAIN, PERIOD 6
SLIT 0.02 mm
1 mm/dec SCAN
20 mm/inch
1cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
530
590
610
630
650
670
690
710nm

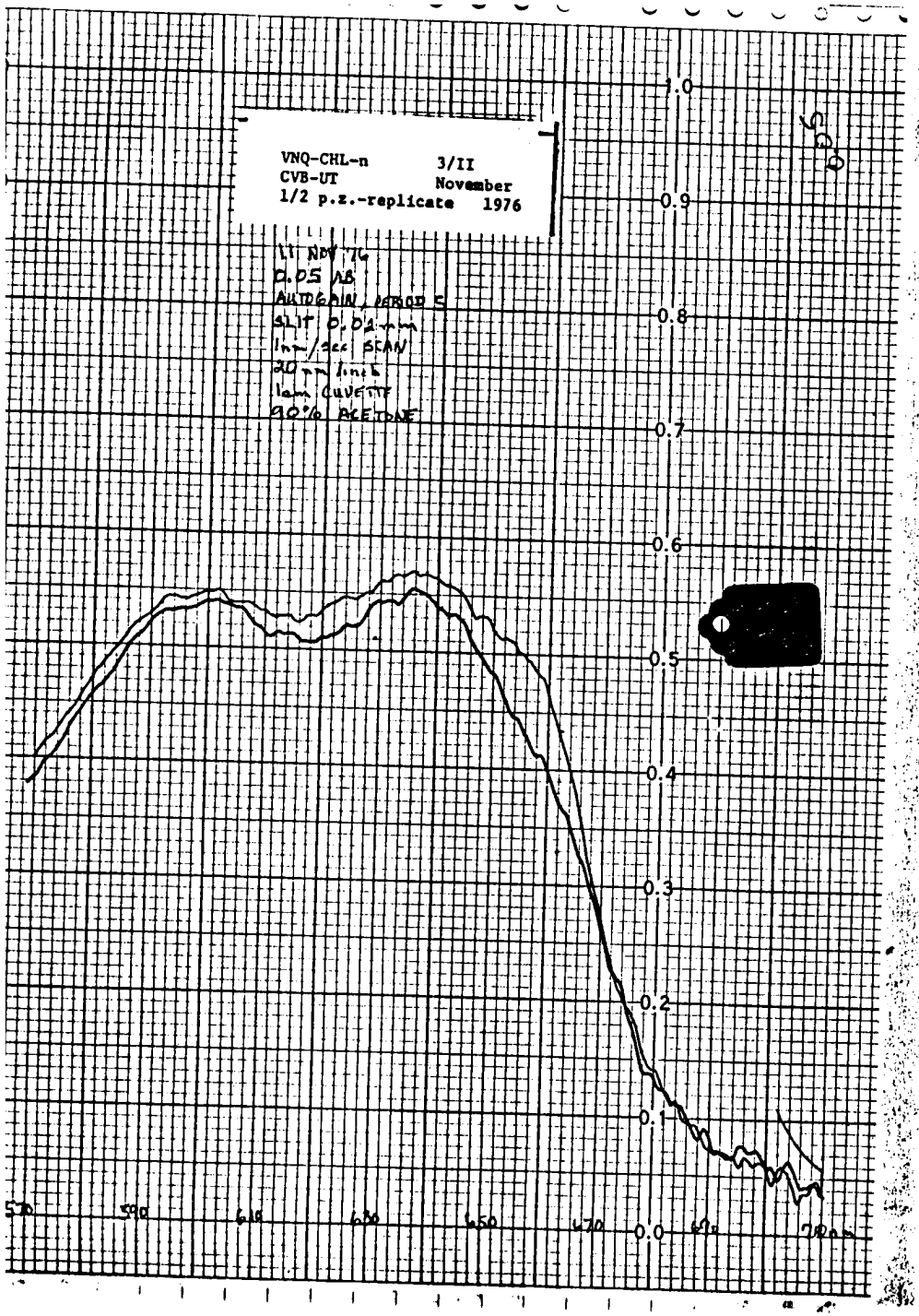

VNO-CHL-n 3/II
CVB-UT November
surface-replicate 1976
11 NOV 1976
0.05 AB
AUTOGAIN, PERIOD 6
SLIT 0.02 mm
1 mm/dec SCAN
20 mm/inch
1cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710

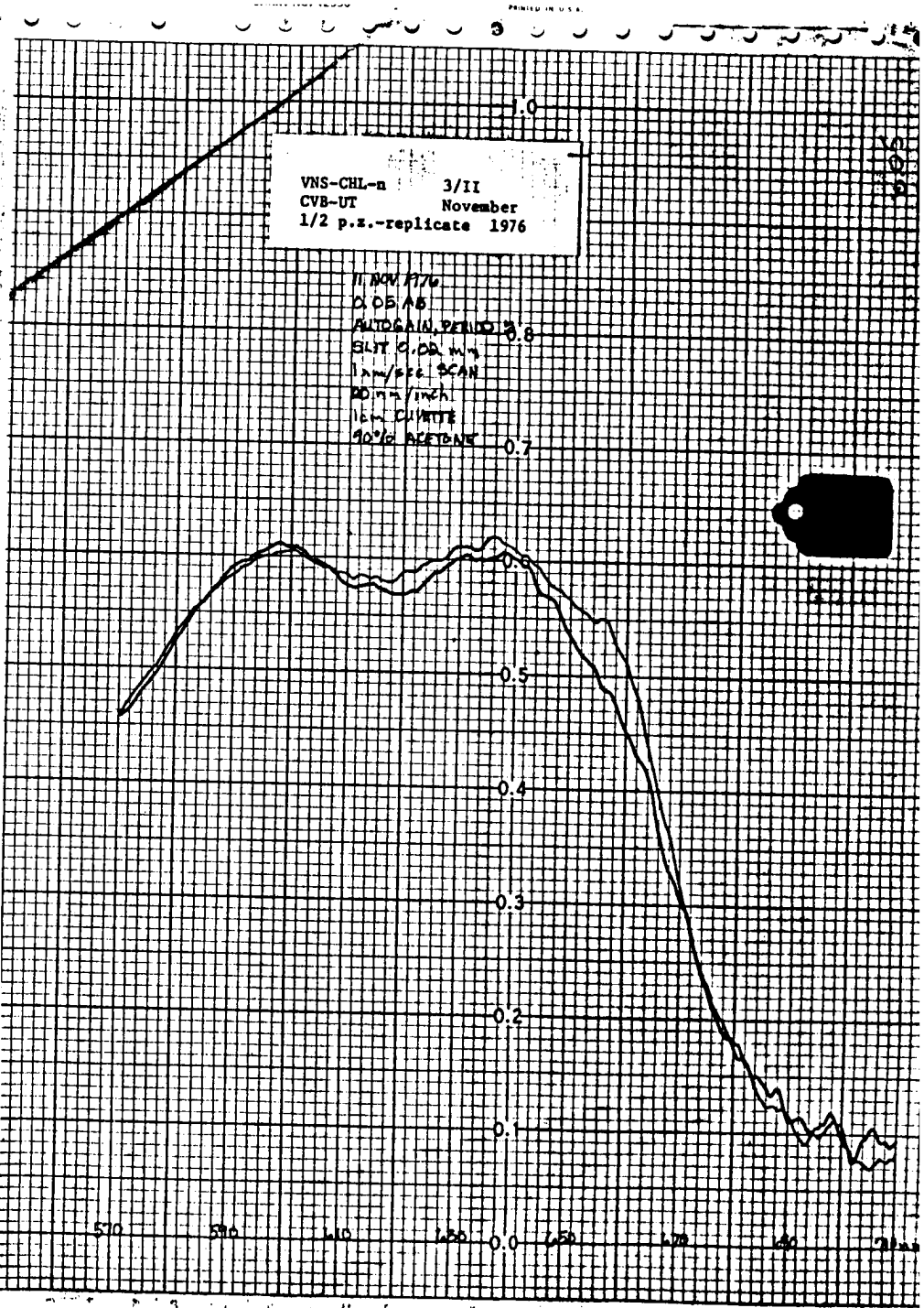

UXO-CHL-p
CVB-UT
1/2 p.z.
3/II
November
1976
11 Nov 876
0.05 AB
AUTOGAIN PERIOD 5
SLIT 0.02 mm
1 mm/sec SCAN
20 mm/inch
1 cm CUVETTE
90% ACETONE

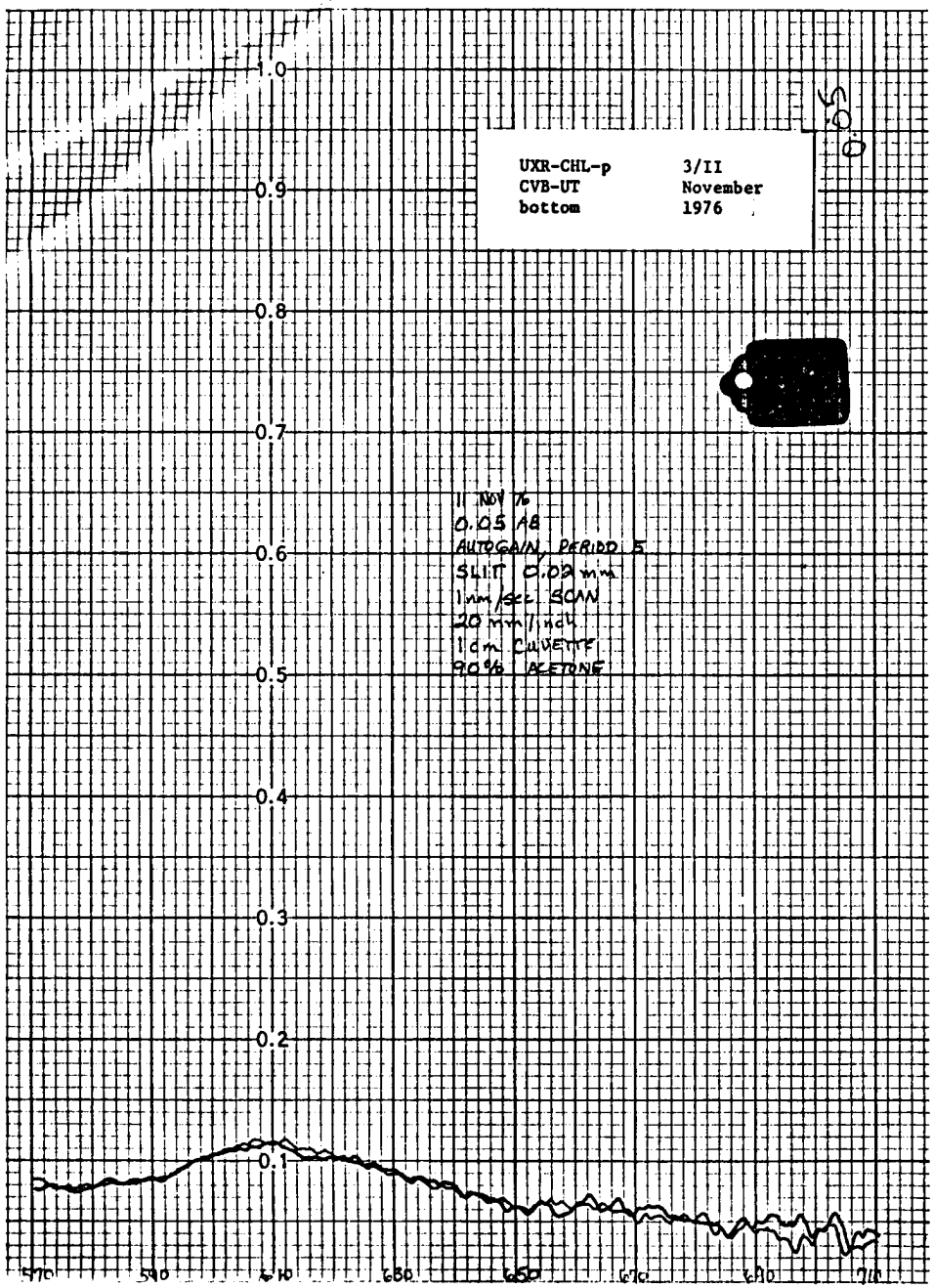

VNP-CHL-p
CVB-UT
1/2 P.Z.-replicate
3/II
November
1976
11 NOV 76
0.05 AB
AUTOGAIN PERIOD 5
SLIT 0.02 mm
1 mm/sec SCAN
20 mm/inch
1 cm CUVETTE
90% ACETONE

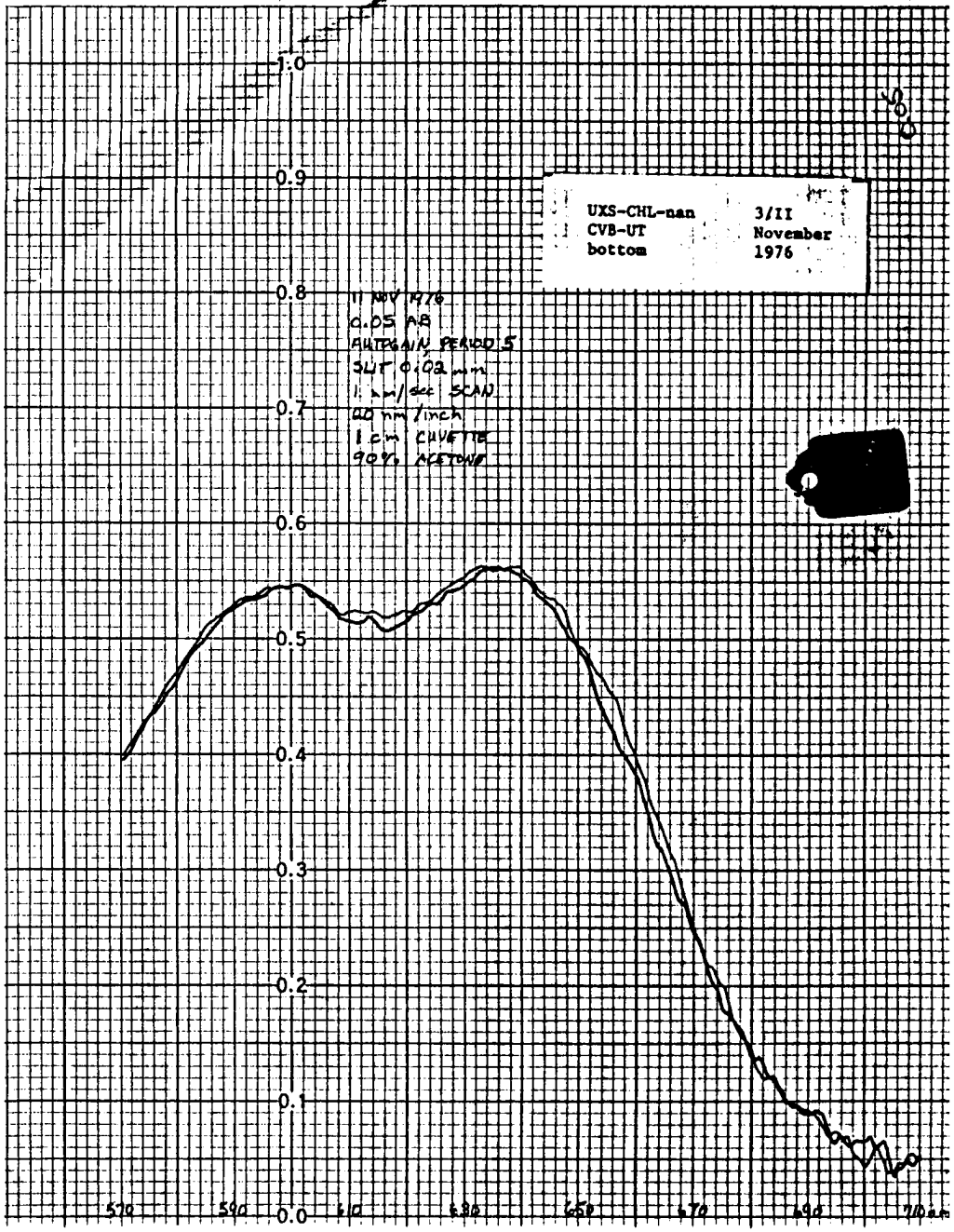

VNR-CHL-p 3/II
CVB-UT November
1/2 p.z.-replicate 1976
11 NOV 1976
0.05 AB
AUTOGAIN, PERIOD 5
SLIT 0.02 mm
1mm/sec SCAN
20 nm/inch
1cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0

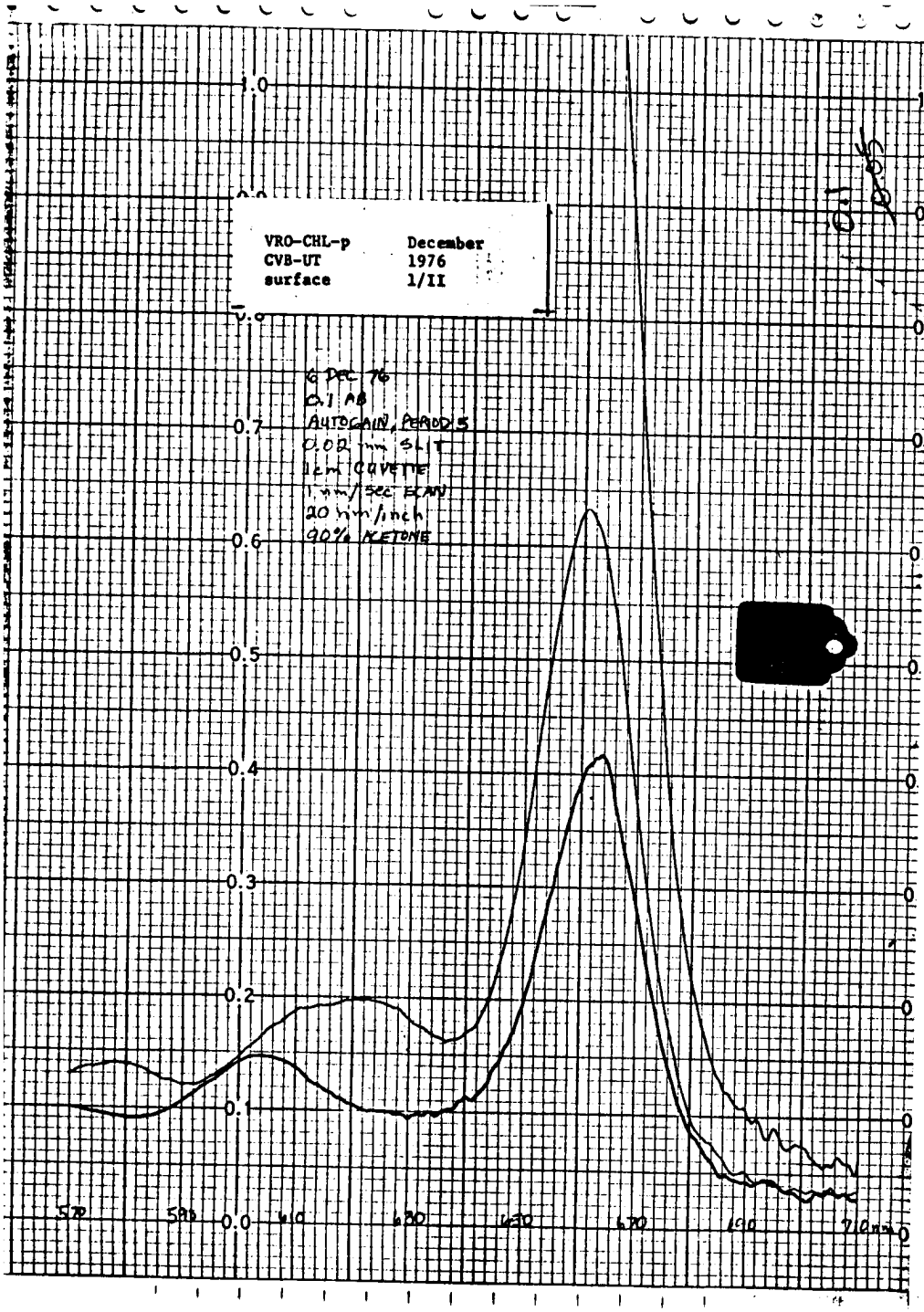

UXP-CHL-n 3/II
CVB-UT November
1/2 p.z. 1976
11 NOV 1976
0.05 AB
AUTOGAIN, PERIOD 5
SLIT 0.02 mm
1mm/sec SCAN
20 nm/inch
1cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0

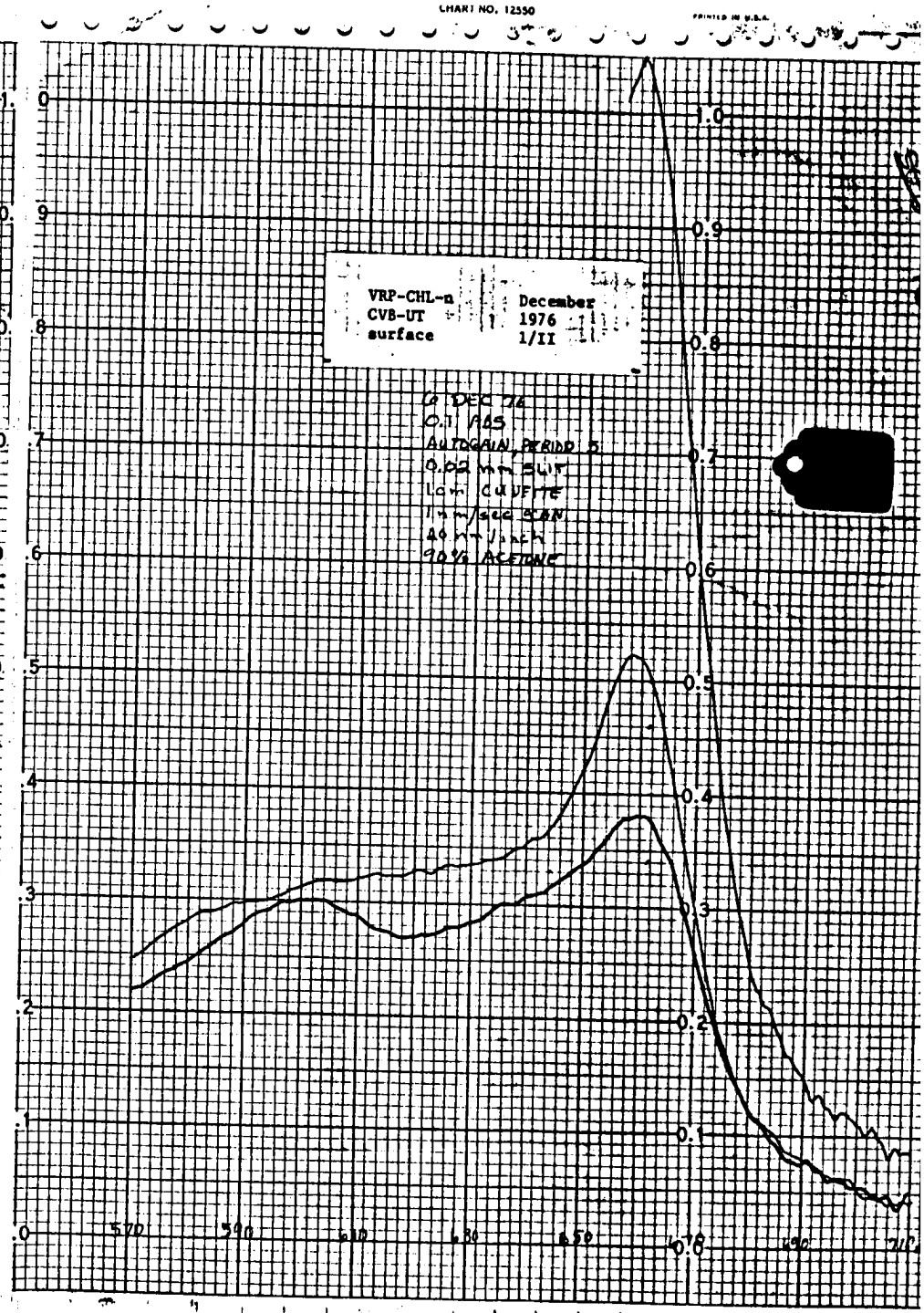

VNQ-CHL-n 3/II
CVB-UT November
1/2 p.z.-replicate 1976
11 NOV 76
0.05 AB
AUTOGAIN, PERIOD 5
SLIT 0.02 mm
1nm/sec SCAN
20 nm/inch
1cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710nm

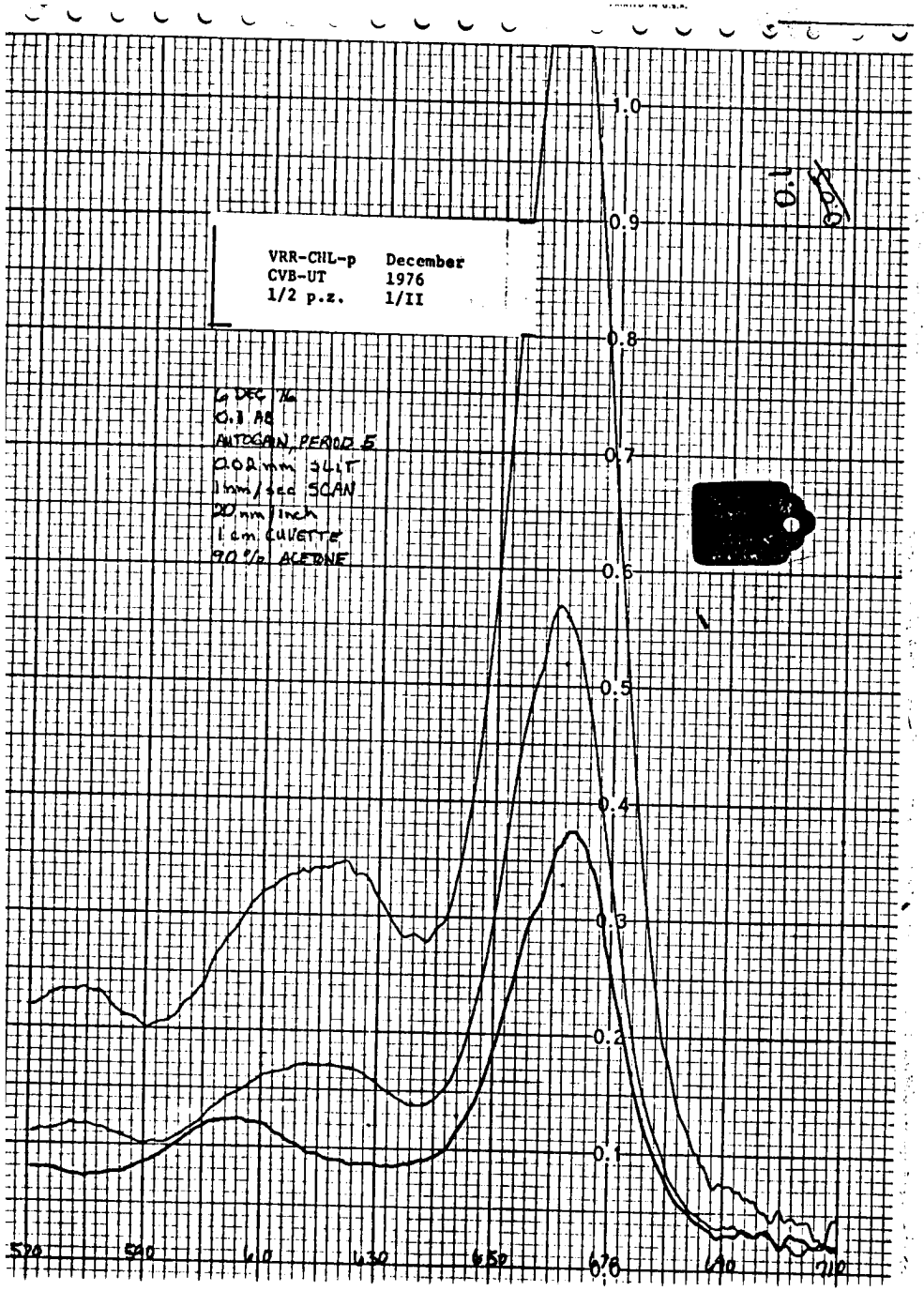

VNS-CHL-n 3/II
CVB-UT November
1/2 p.z.-replicate 1976
11 NOV 1976
0.05 AB
AUTOGAIN, PERIOD 3
SLIT 0.02 mm
1nm/sec SCAN
20 nm/inch
1cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710nm

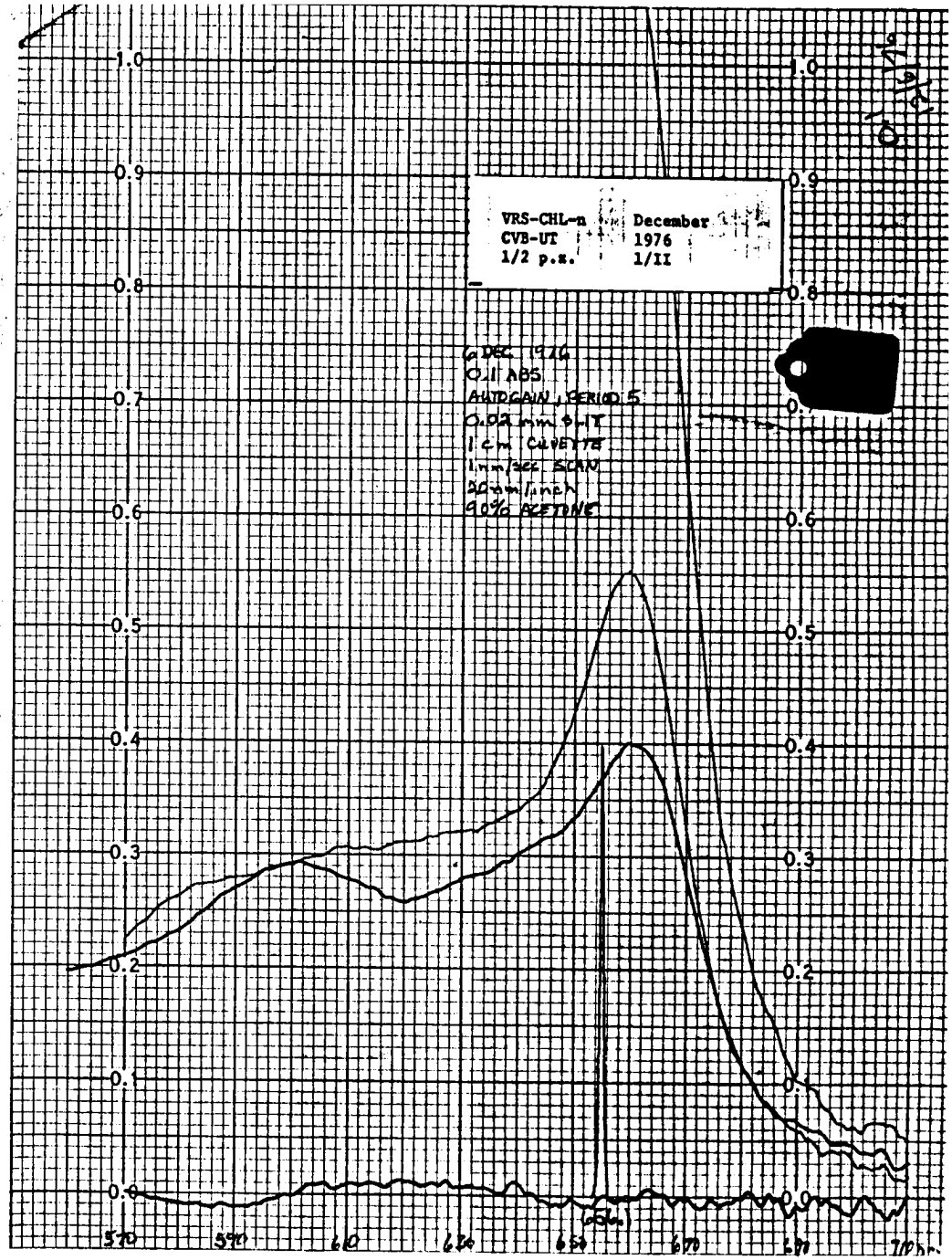

UXR-CHL-p 3/II
CVB-UT November
bottom 1976
II NOV 76
0.05 AB
AUTOGAIN, PERIOD 5
SLIT 0.02 mm
1 mm/sec SCAN
20 mm/inch
1 cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710

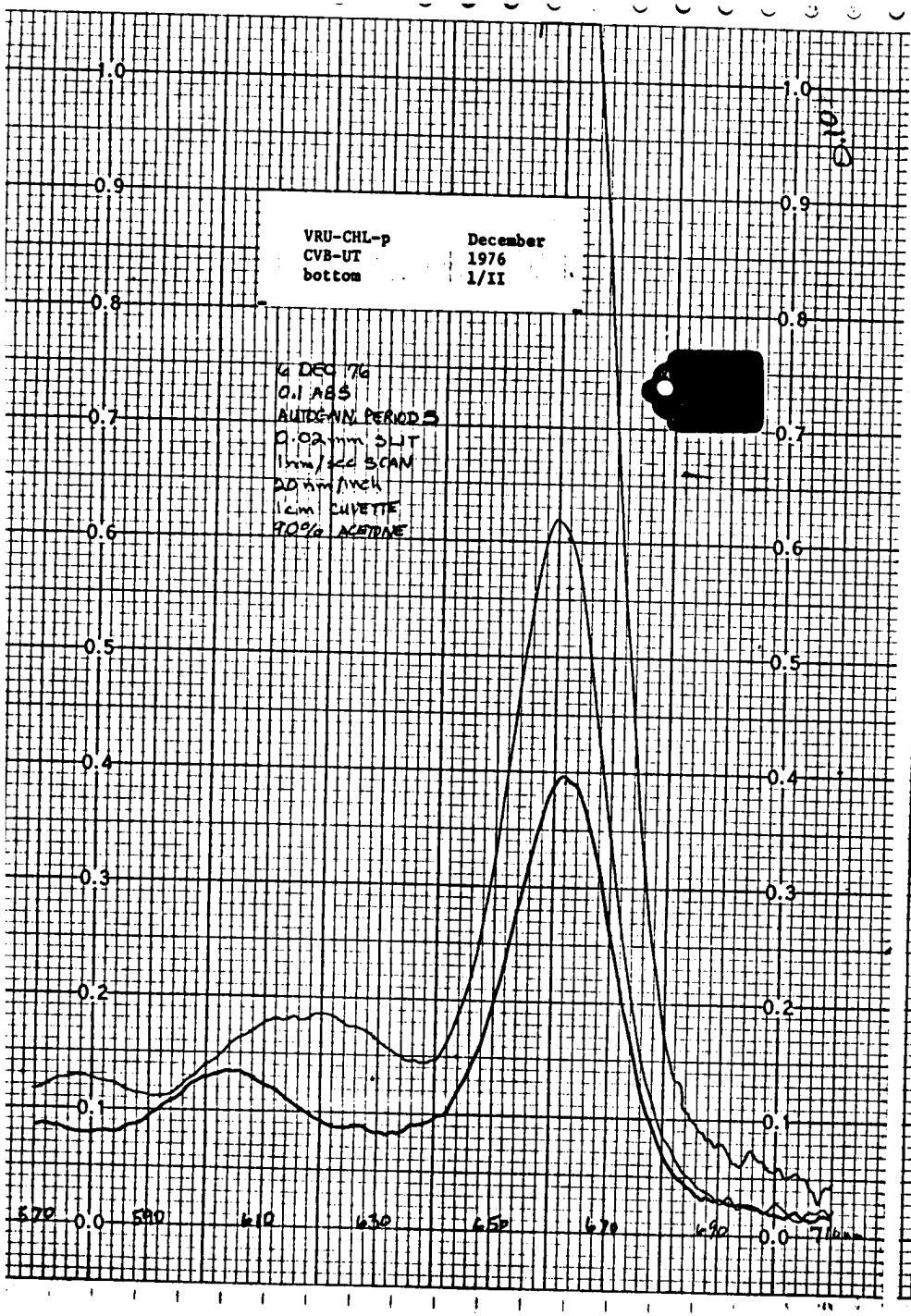

UXS-CHL-nan 3/II
CVB-UT November
bottom 1976
II NOV 1976
0.05 AB
AUTOGAIN, PERIOD 5
SLIT 0.02 mm
1 nm/sec SCAN
20 nm/inch
1 cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 nm

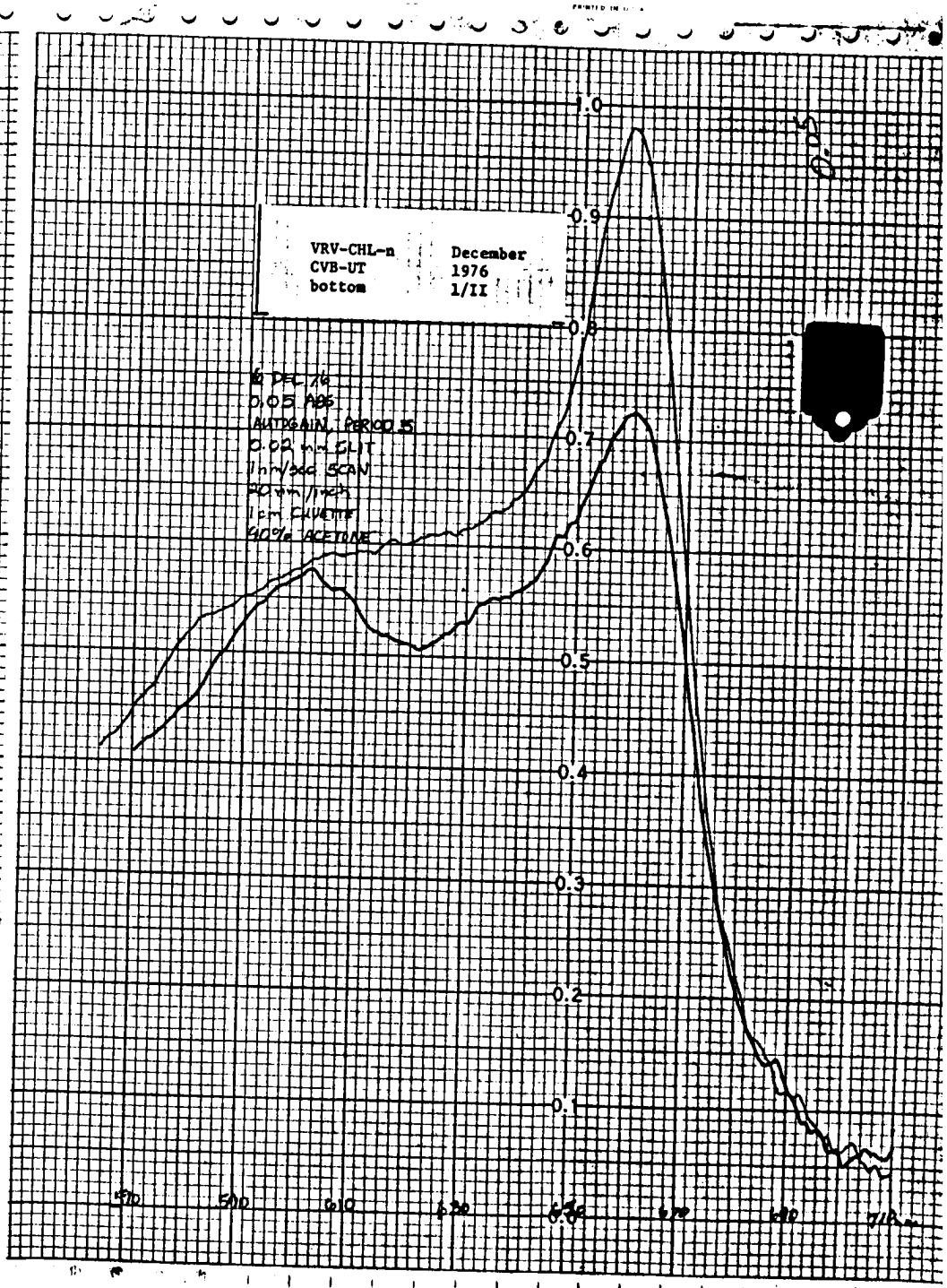

VRO-CHL-p
CVB-UT
surface
December
1976
1/II
@ DEC 76
0.1 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
1cm CUVETTE
1 nm/sec SCAN
20 nm/inch
90% ACETONE
570
590
610
630
650
670
690
710nm

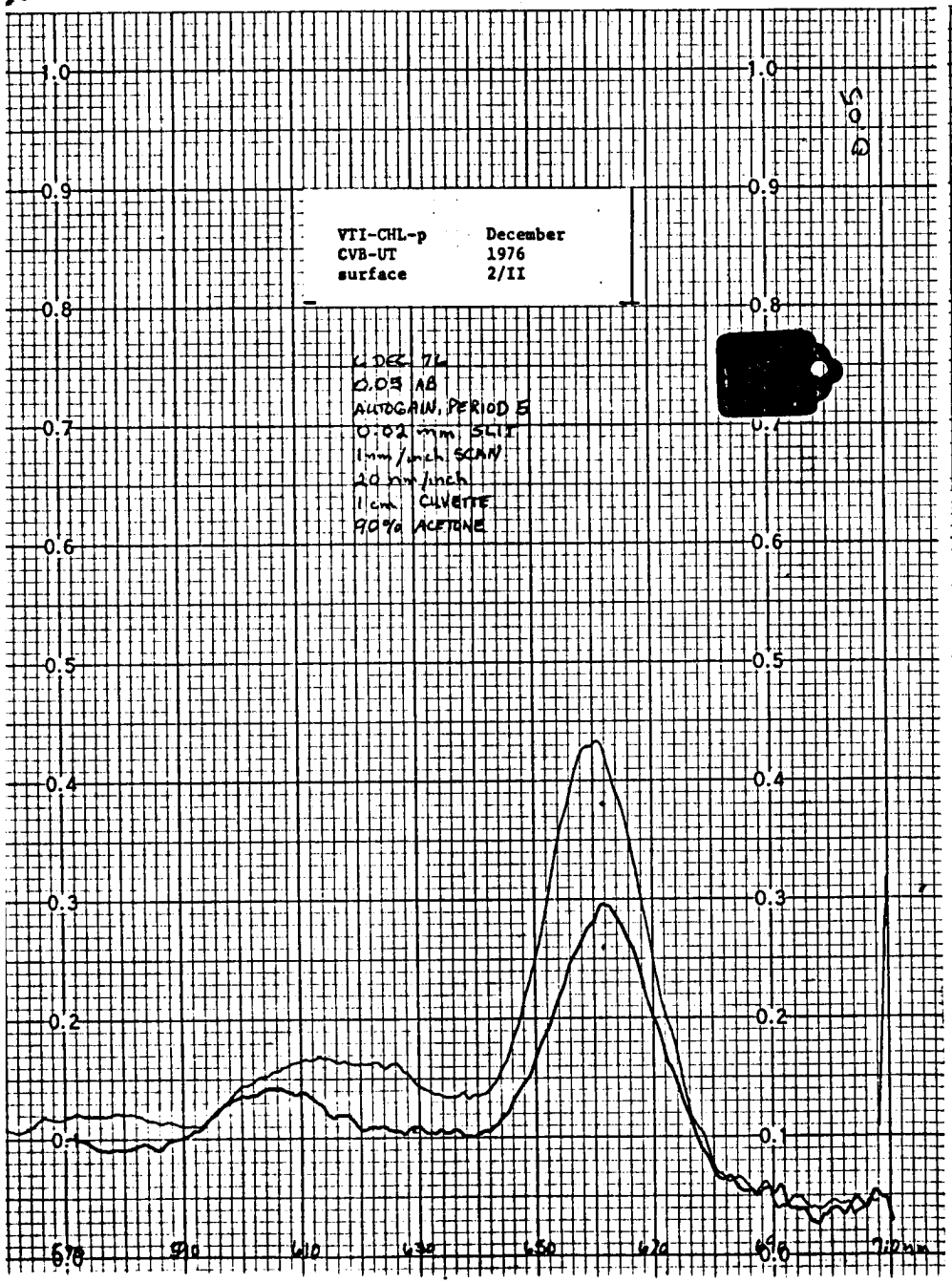

VRP-CHL-n
CVB-UT
surface
December
1976
1/II
@ DEC 76
0.1 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
1cm CUVETTE
1 nm/sec SCAN
20 nm/inch
90% ACETONE
570
590
610
630
650
670
690
710

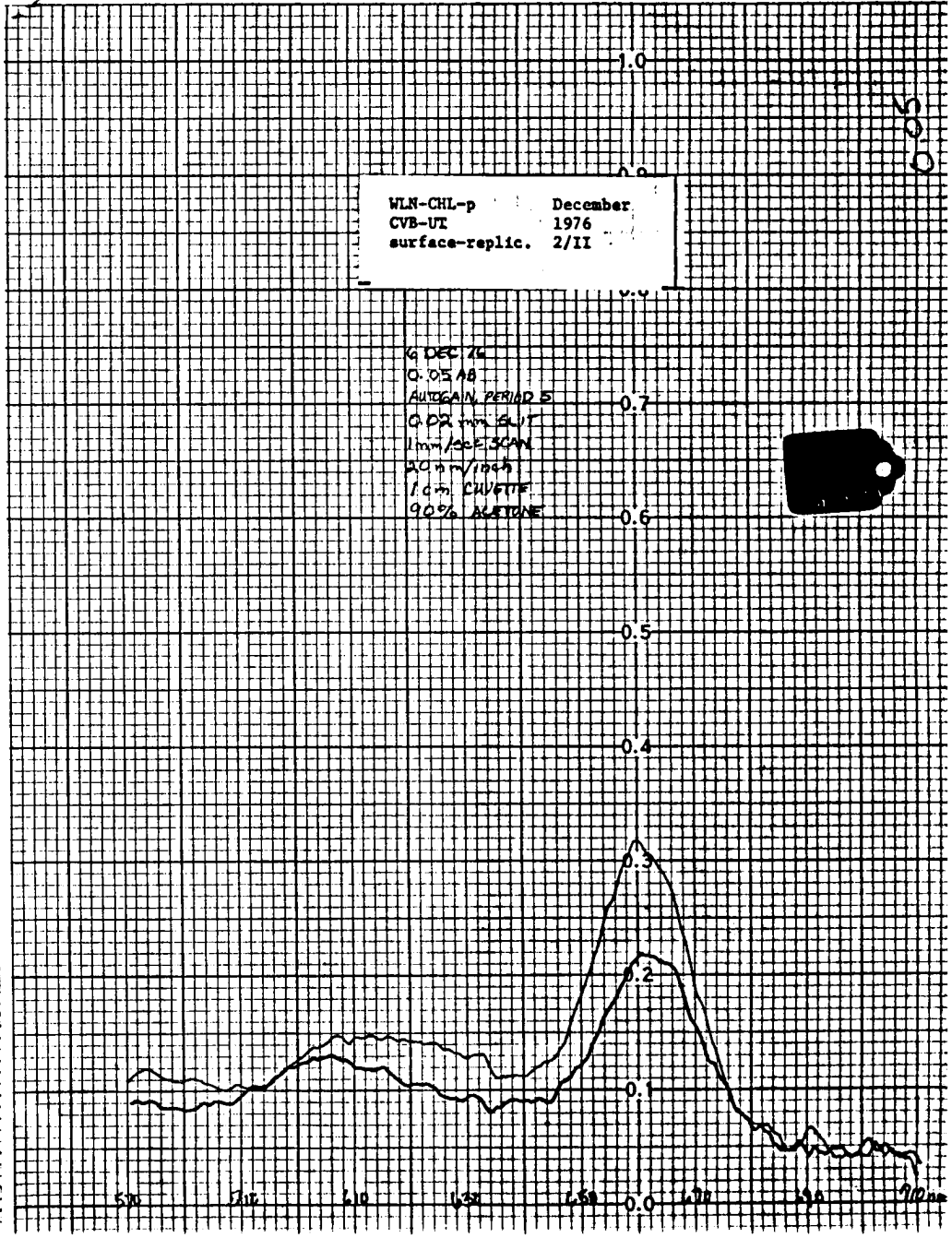

VRR-CHL-p December
CVB-UT 1976
1/2 p.z. 1/II
6 DEC 76
0.1 ABS
AUTOGAIN, PERIOD 5
0.02 nm 34 IT
1 nm/sec SCAN
20 nm/inch
1 cm CUVETTE
90 % ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710


VRS-CHL-n December
CVB-UT 1976
1/2 p.z. 1/II
6 DEC 1976
0.1 ABS
AUTOGAIN, PERIOD 5
0.02 nm 34 IT
1 cm CUVETTE
1 nm/sec SCAN
20 nm/inch
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710


VRU-CHL-p
CVB-UT
bottom
December
1976
1/II
6 DEC 76
0.1 ABS
AUTOGAIN PERIOD 5
0.02 mm SLIT
1nm/sec SCAN
20 nm/inch
1cm CUVETTE
90% ACETONE
O.D.
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710nm

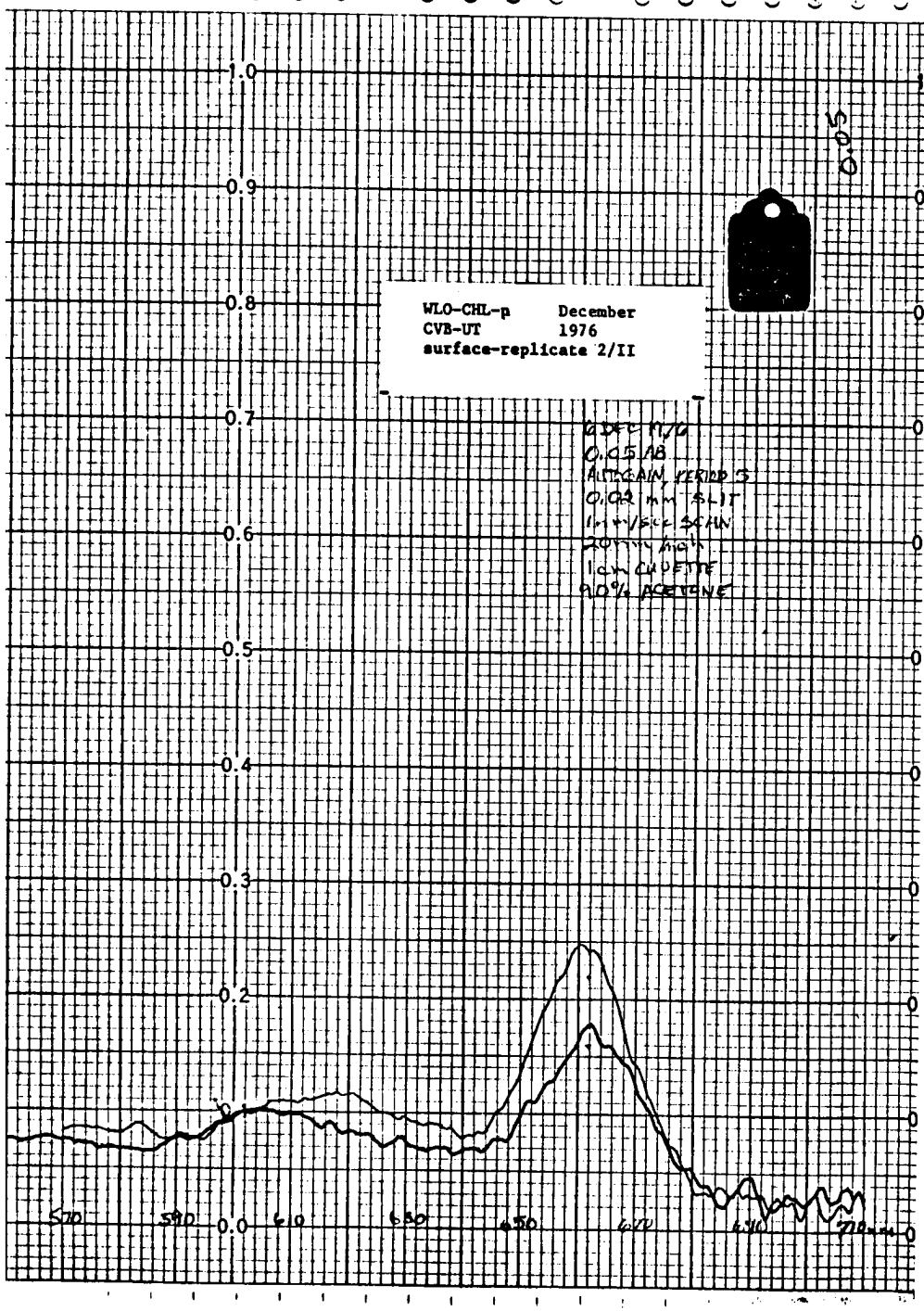

VRV-CHL-n
CVB-UT
bottom
December
1976
1/II
6 DEC 76
0.05 ABS
AUTOGAIN PERIOD 5
0.02 mm SLIT
1nm/sec SCAN
20 nm/inch
1cm CUVETTE
90% ACETONE
O.D.
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
490
510
530
550
570
590
610
630
650
670
690
710nm

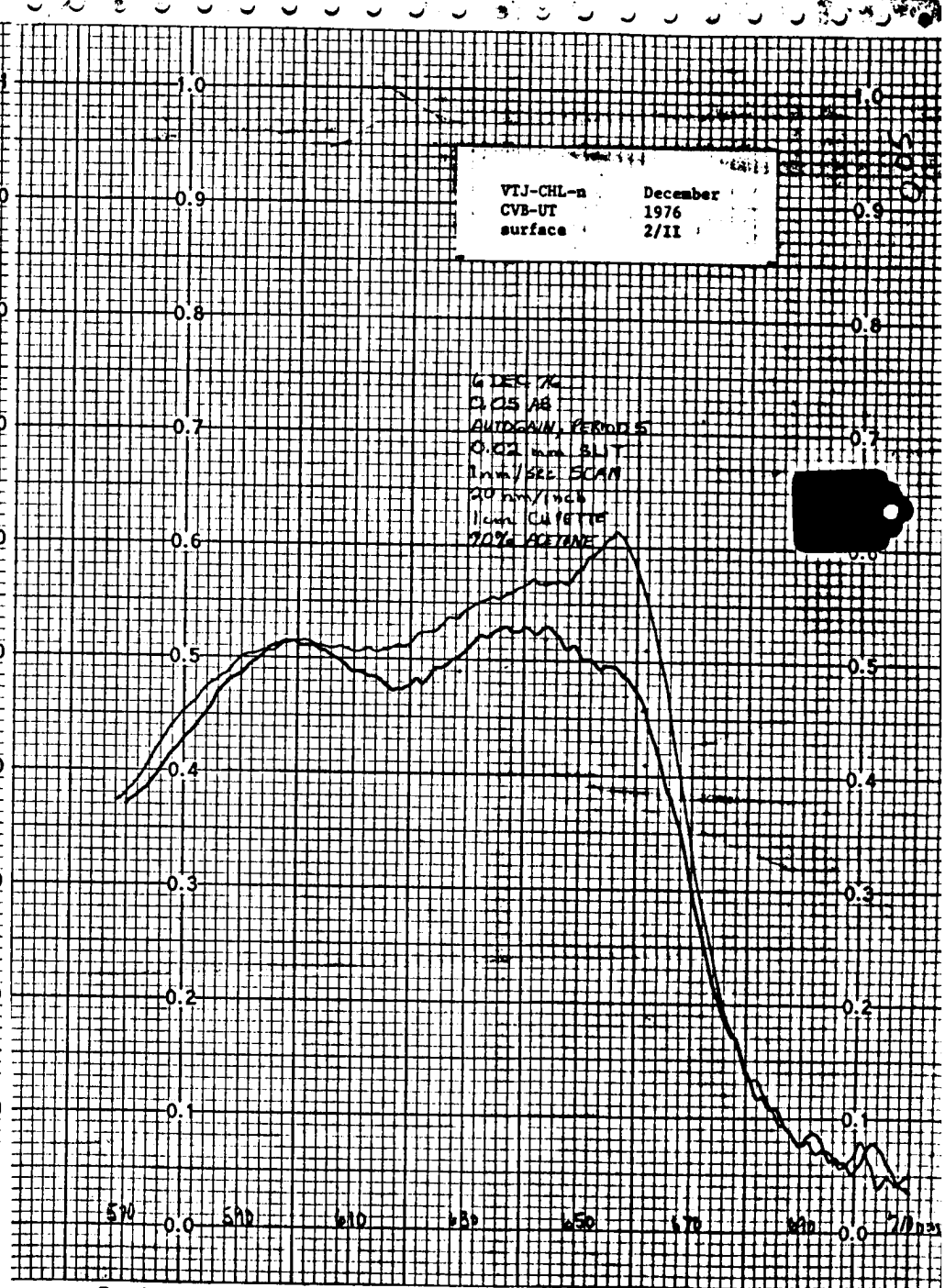

VTI-CHL-p December
CVB-UT 1976
surface 2/II
6 DEC. 76
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
1 mm/inch SCAN
20 nm/inch
1 cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
670
650
630
610
590
nm

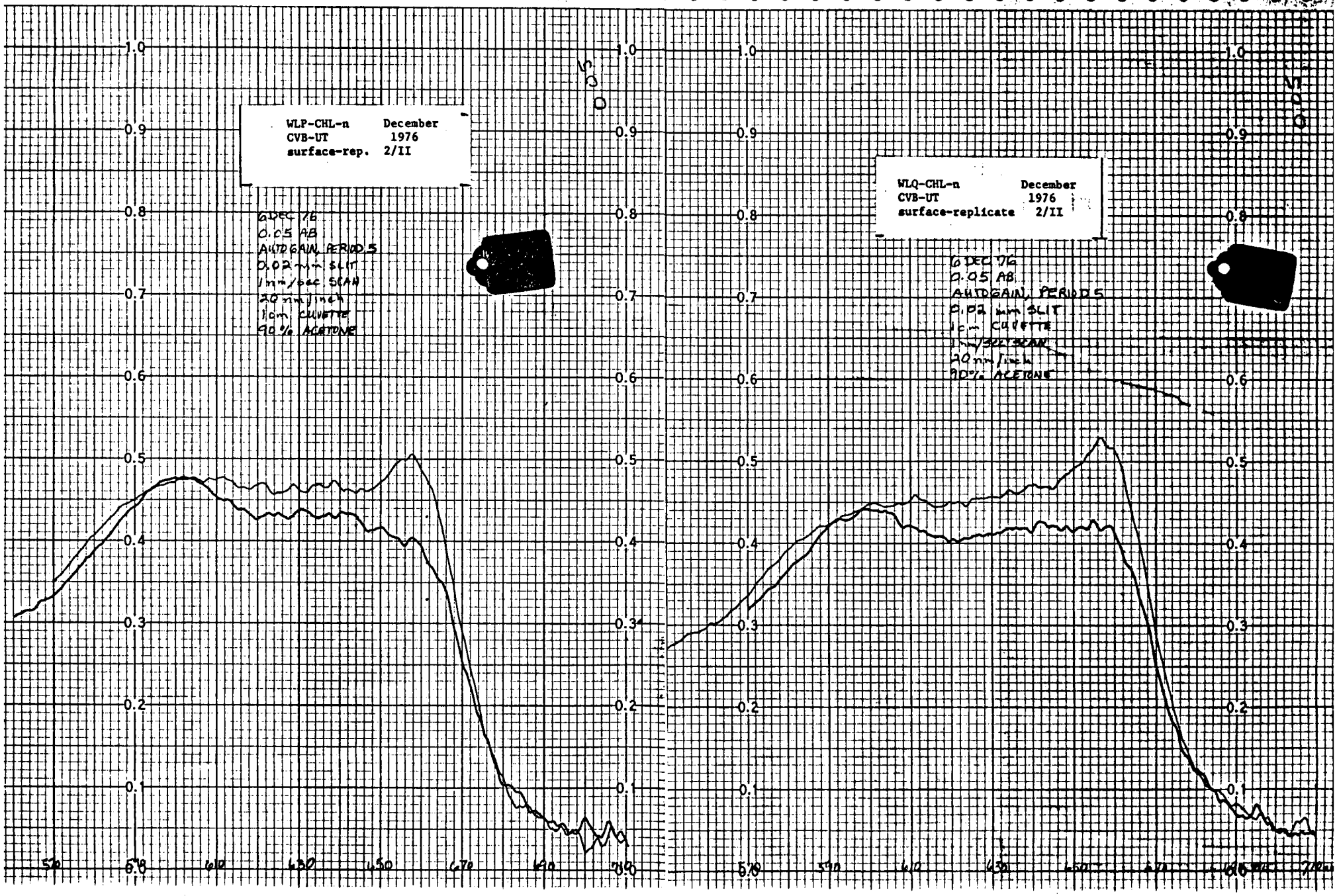

WLN-CHL-p December
CVB-UT 1976
surface-replic. 2/II
6 DEC 76
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
1 mm/inch SCAN
20 nm/inch
1 cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
670
650
630
610
590
nm

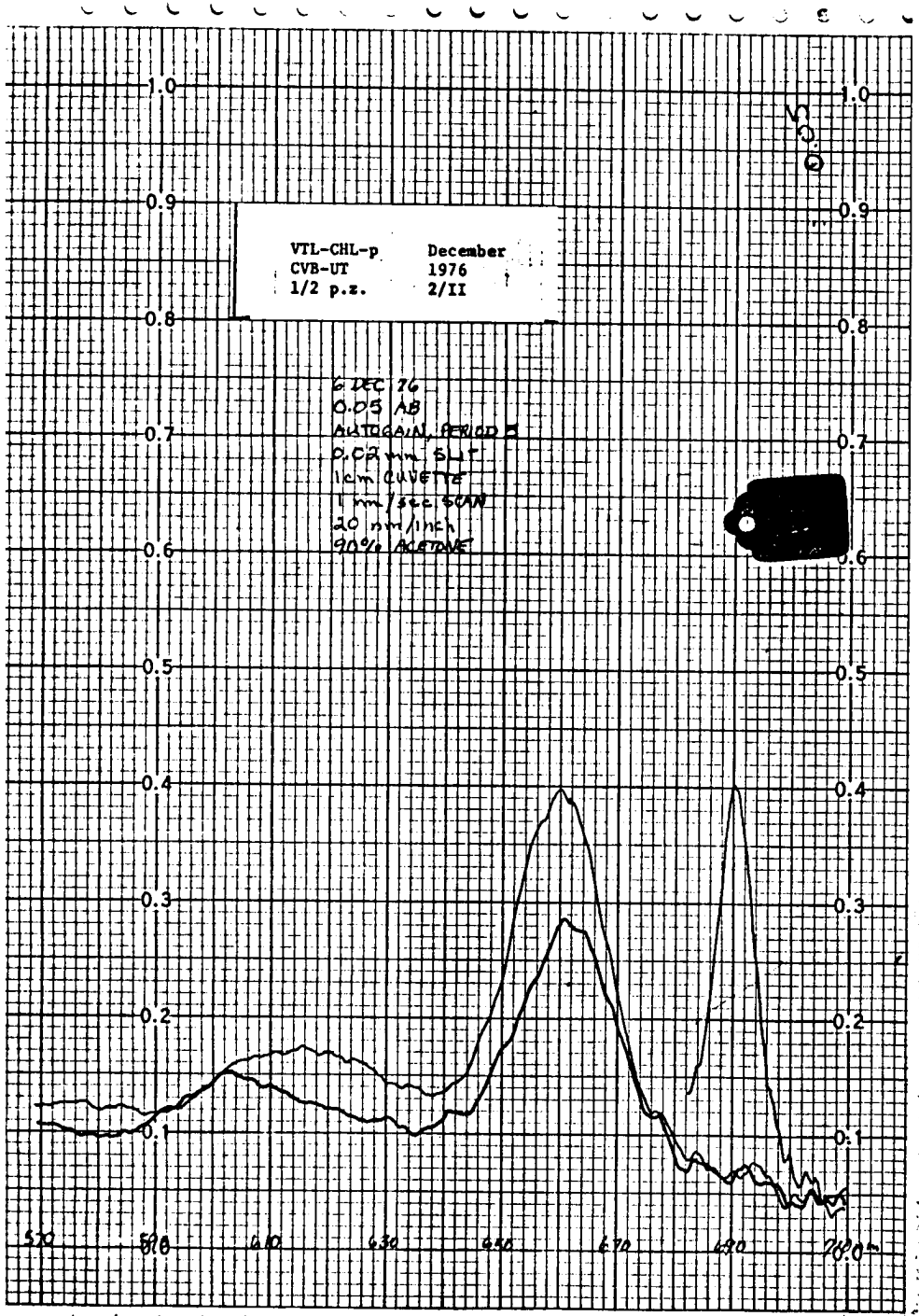
Cary Instruments / a varian subsidiary

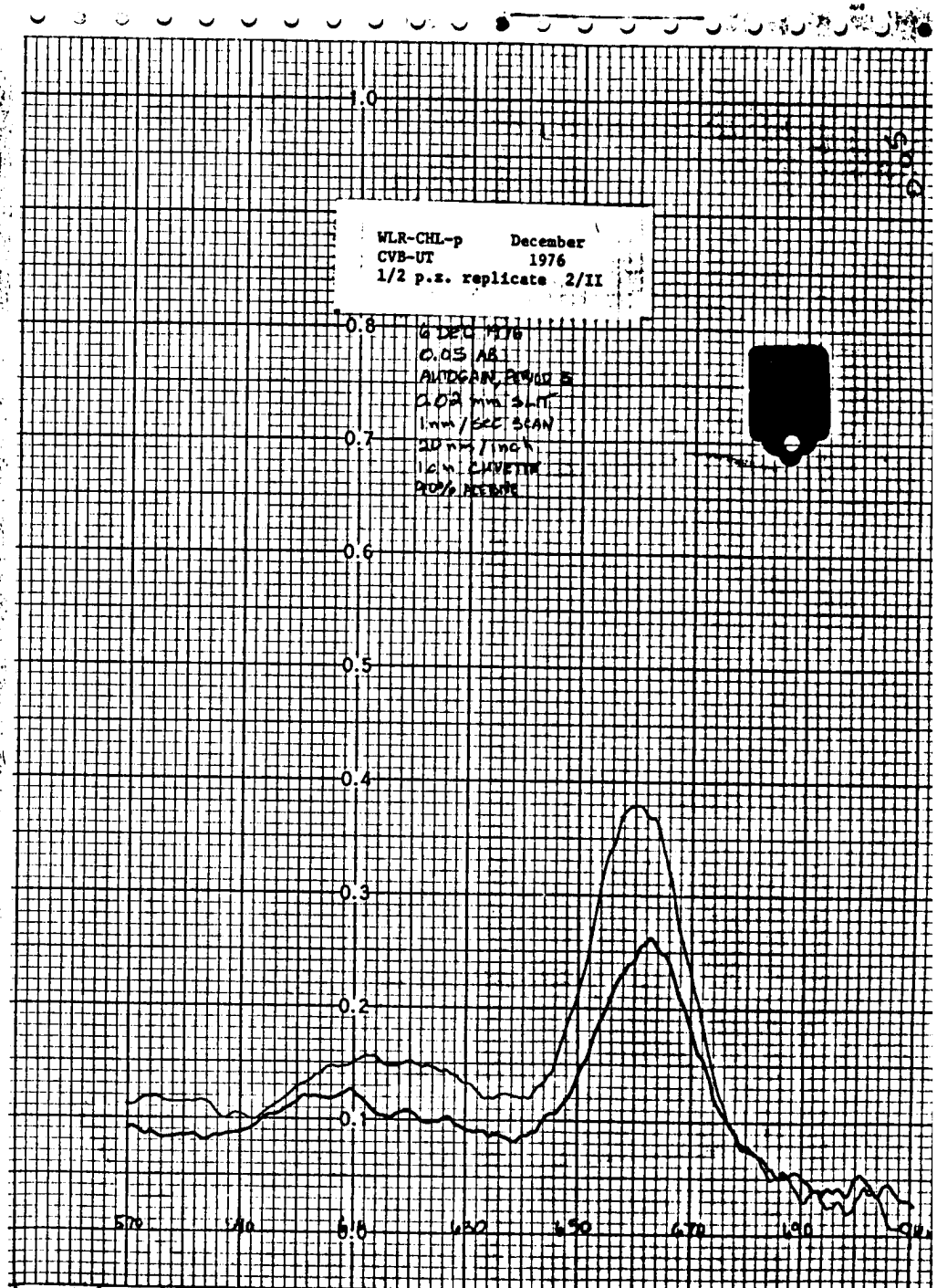
CHART NO. 12550

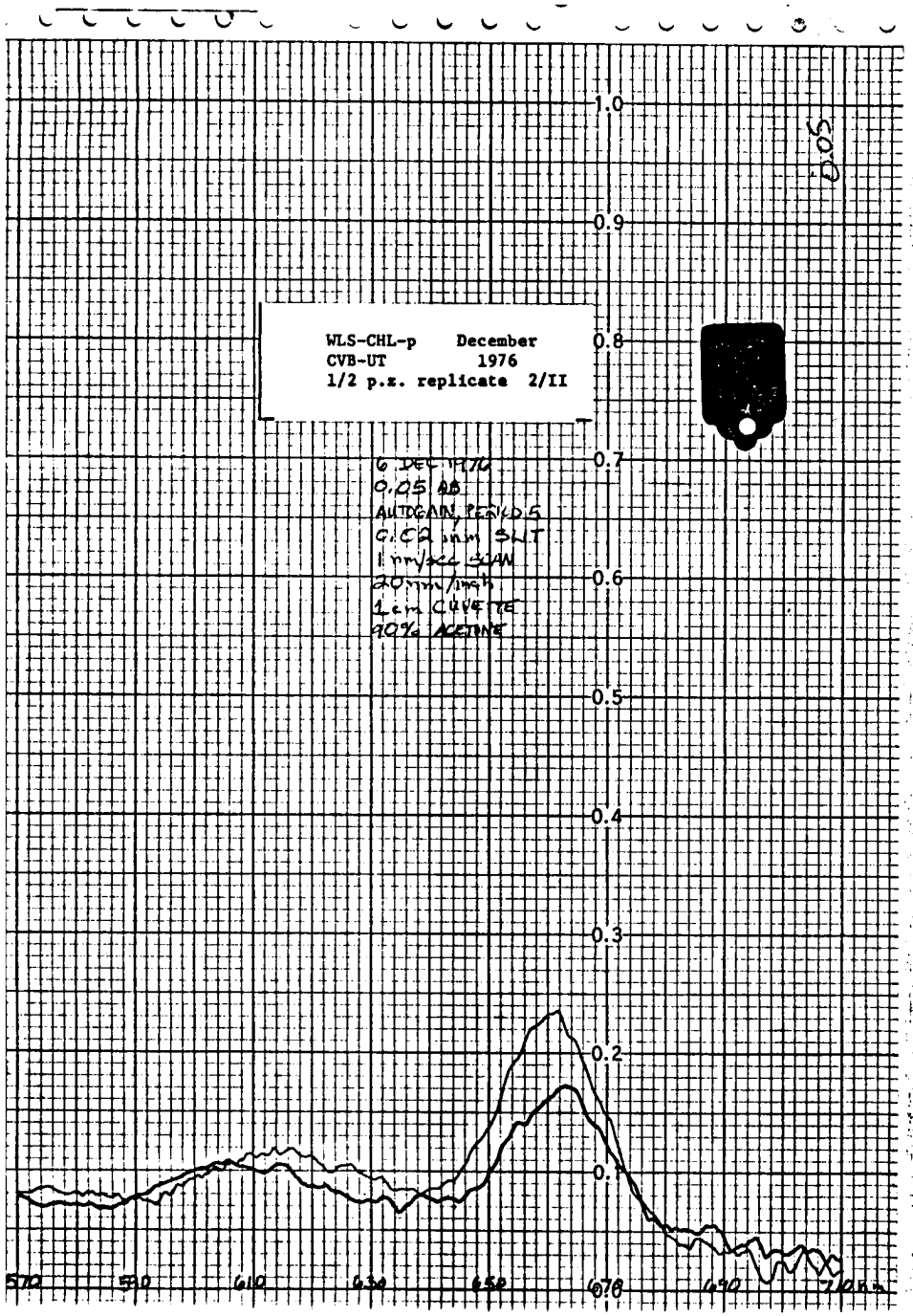


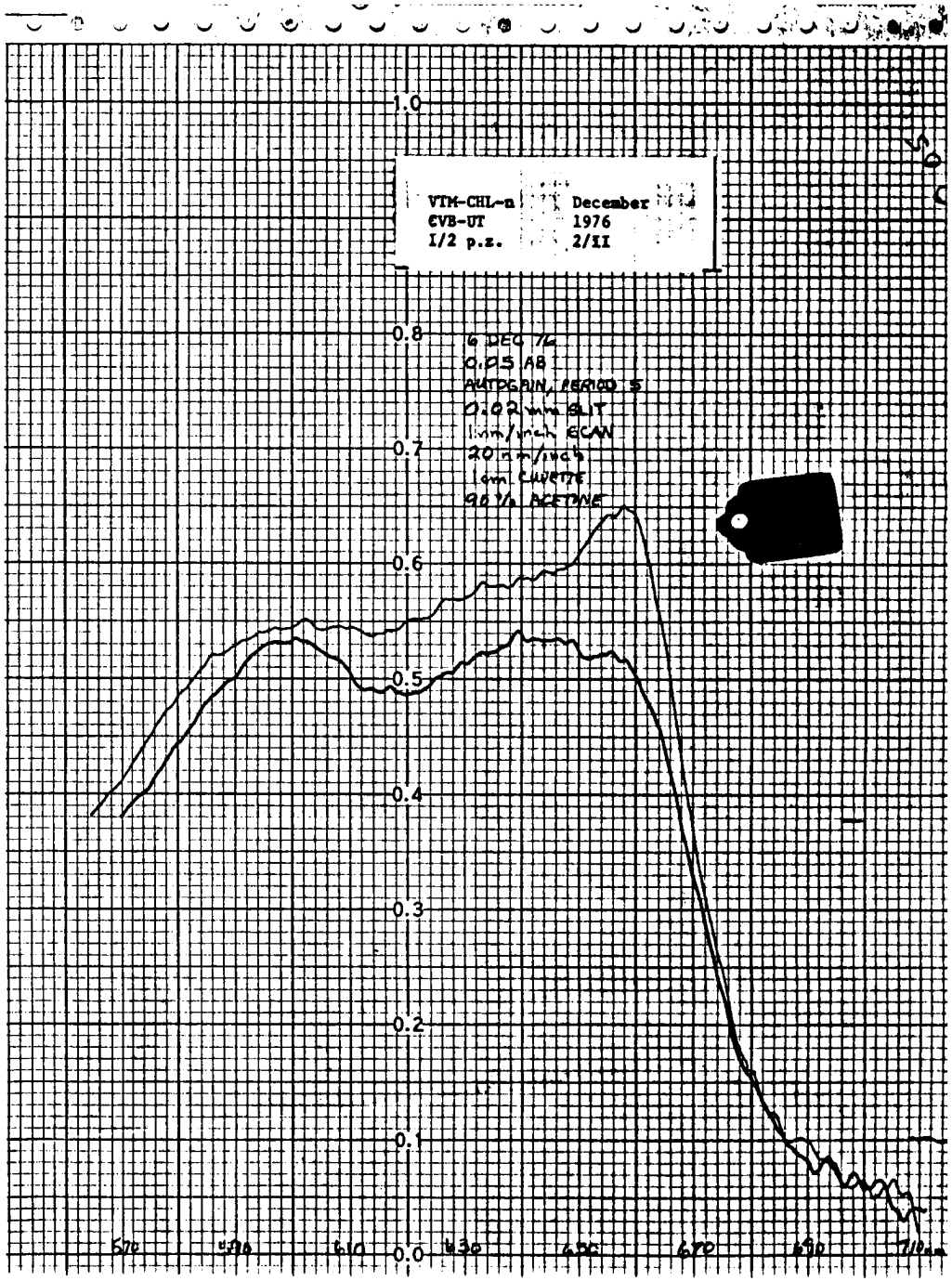


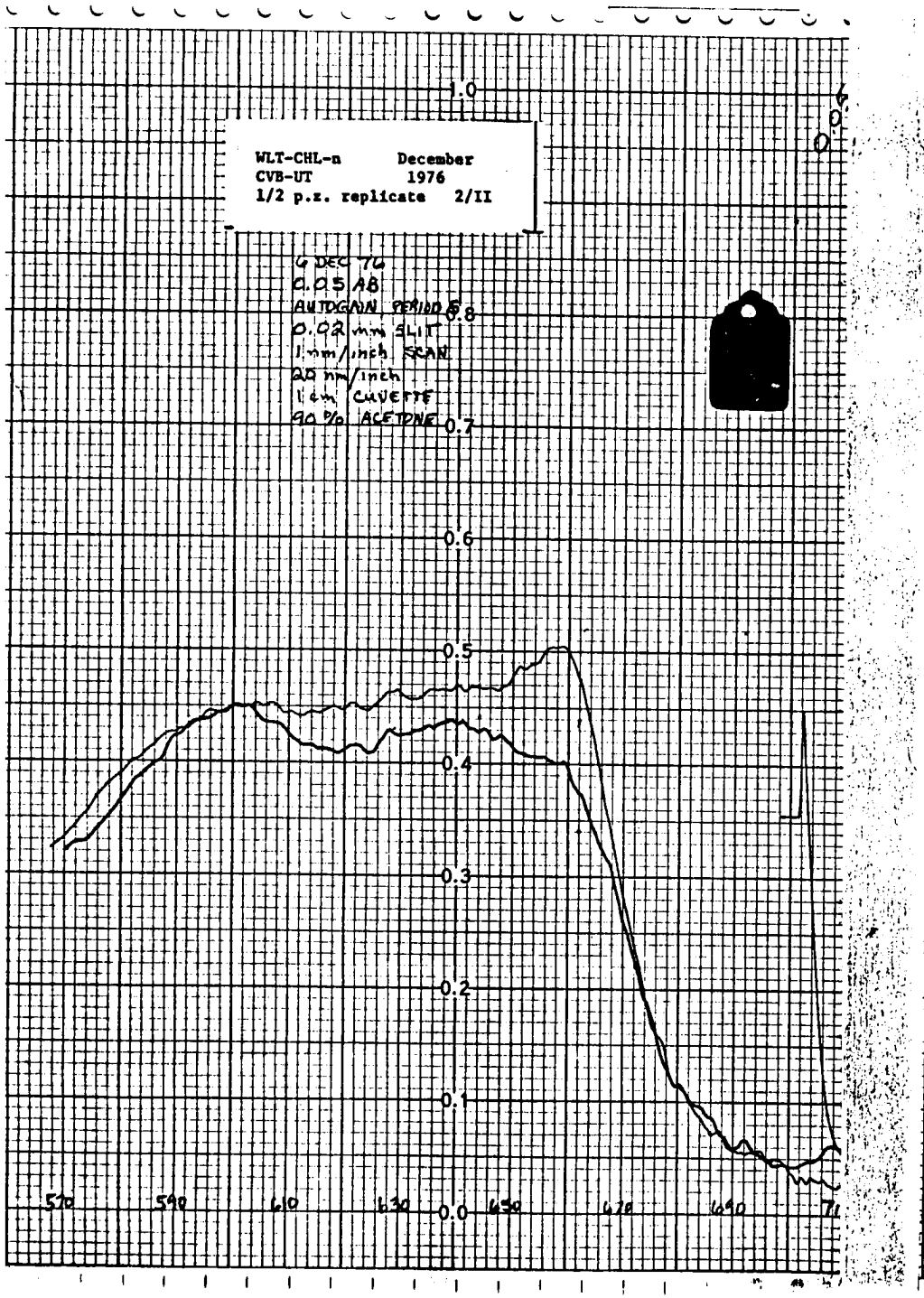

WLP-CHL-n December
CVB-UT 1976
surface-rep. 2/II
6 DEC 76
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
1 mm/sec SCAN
20 mm/inch
1cm CUVETTE
90% ACETONE
WLQ-CHL-n December
CVB-UT 1976
surface-replicate 2/II
6 DEC 76
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
1cm CUVETTE
1 mm/SEC SCAN
20 mm/inch
90% ACETONE

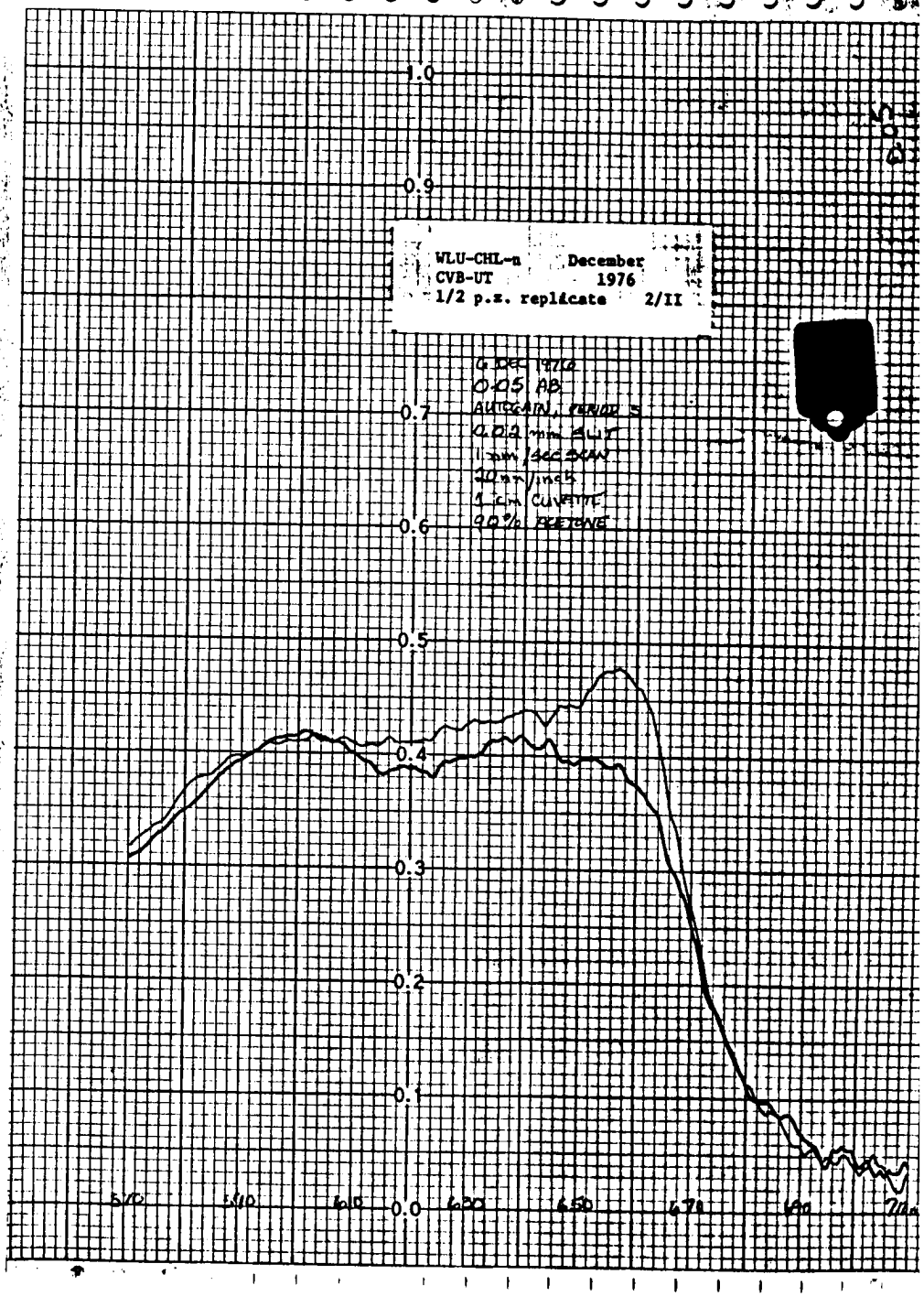

VTL-CHL-p December
CVB-UT 1976
1/2 p.z. 2/II
6 DEC 76
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
1cm CUVETTE
1 mm/sec SCAN
20 nm/inch
90% ACETONE
O.D.
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
520
590
610
630
650
670
690
700 nm

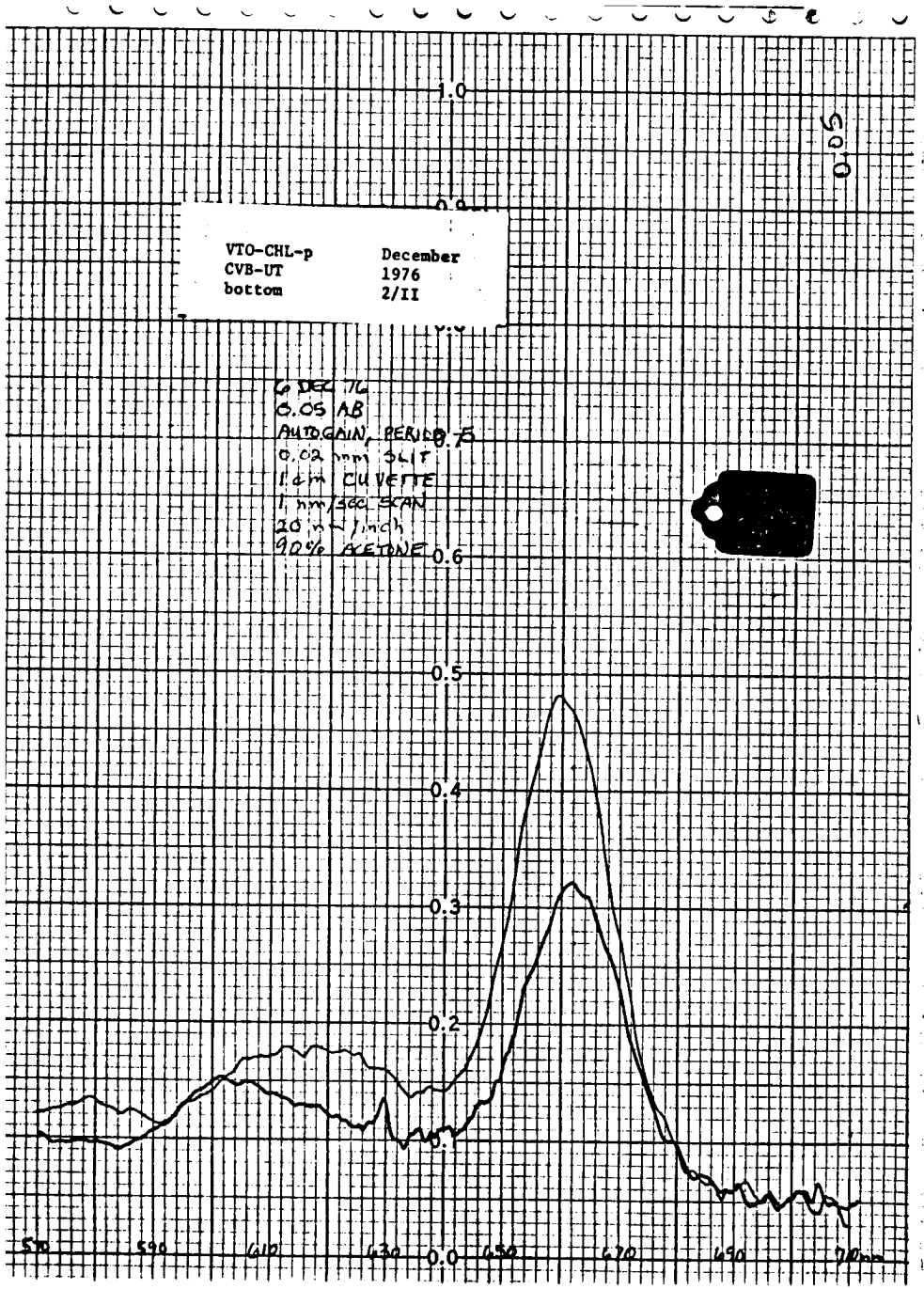

WLR-CHL-p December
CVB-UT 1976
1/2 p.z. replicate 2/II
6 DEC 76
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
1mm/sec SCAN
20 nm/inch
1cm CUVETTE
90% ACETONE
O.D.
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
700 nm

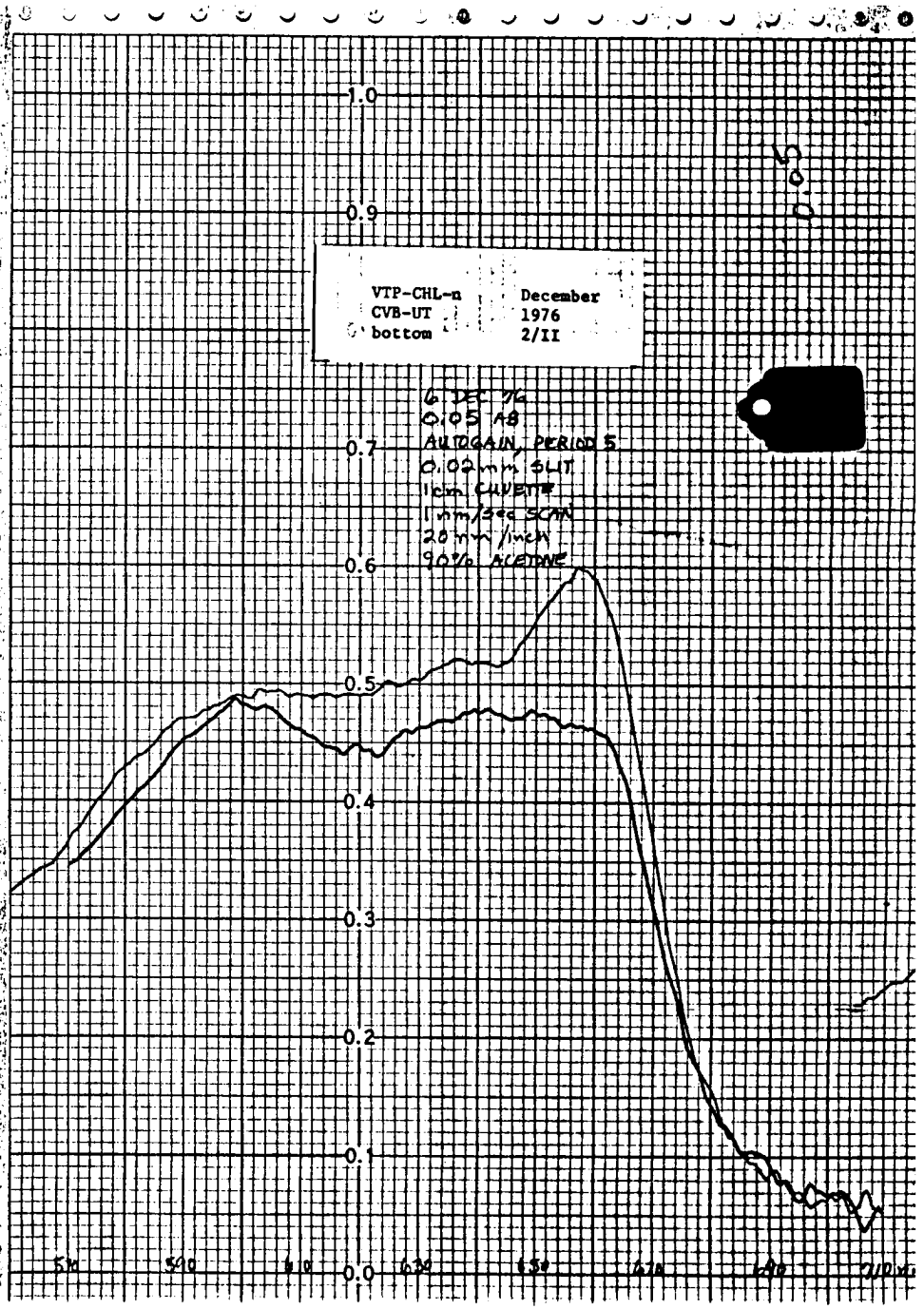

WLS-CHL-p December
CVB-UT 1976
1/2 p.z. replicate 2/II
6 DEC 1976
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
1 mm/sec SCAN
20 mm/inch
1 cm CUVETTE
90% ACETONE
0.05
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710 nm

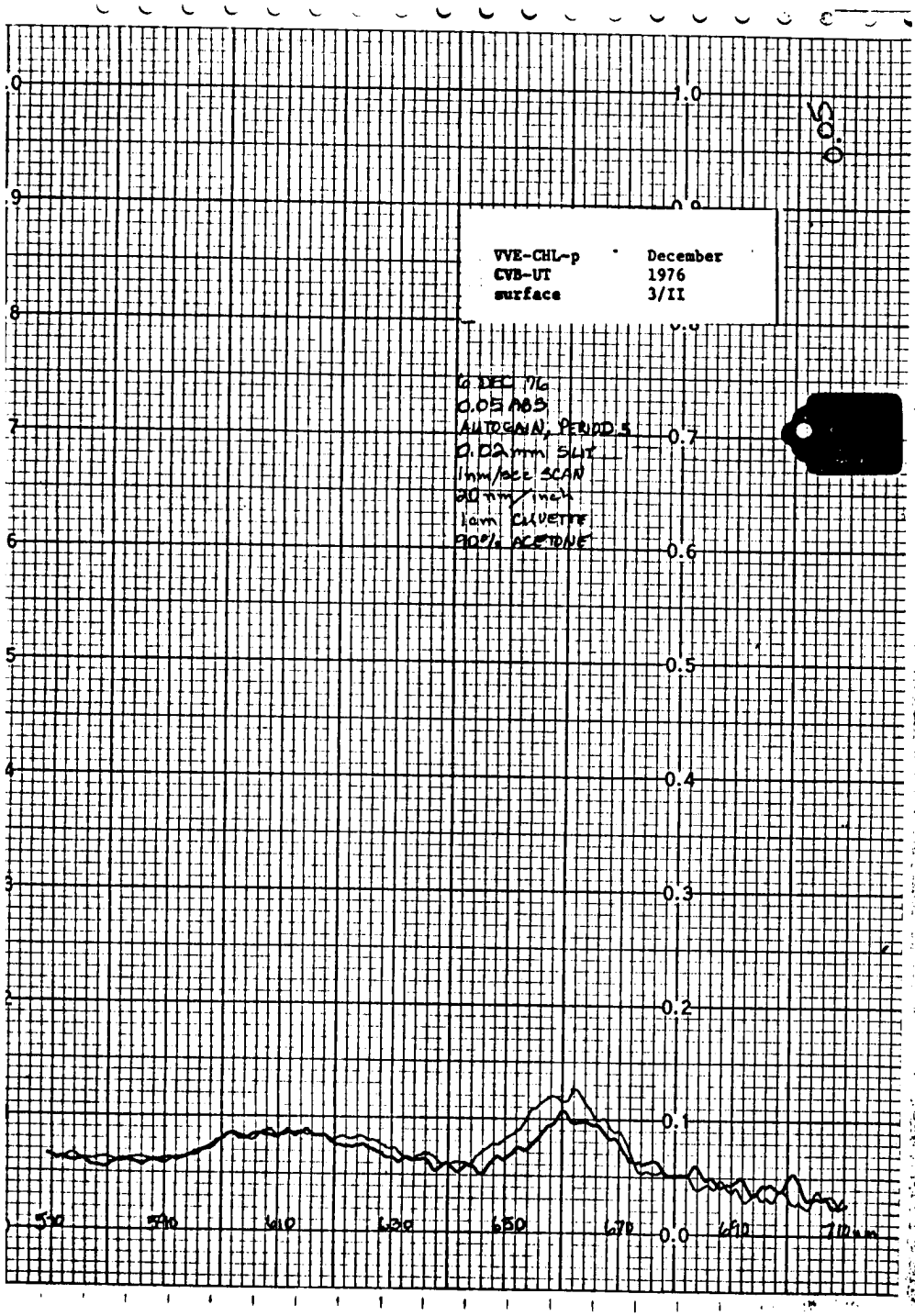

VIM-CHL-n December
CVB-UT 1976
I/2 p.z. 2/II
6 DEC 76
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
1 mm/inch SCAN
20 mm/inch
1 cm CUVETTE
90% ACETONE
1.0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
610
630
650
670
690
710 nm

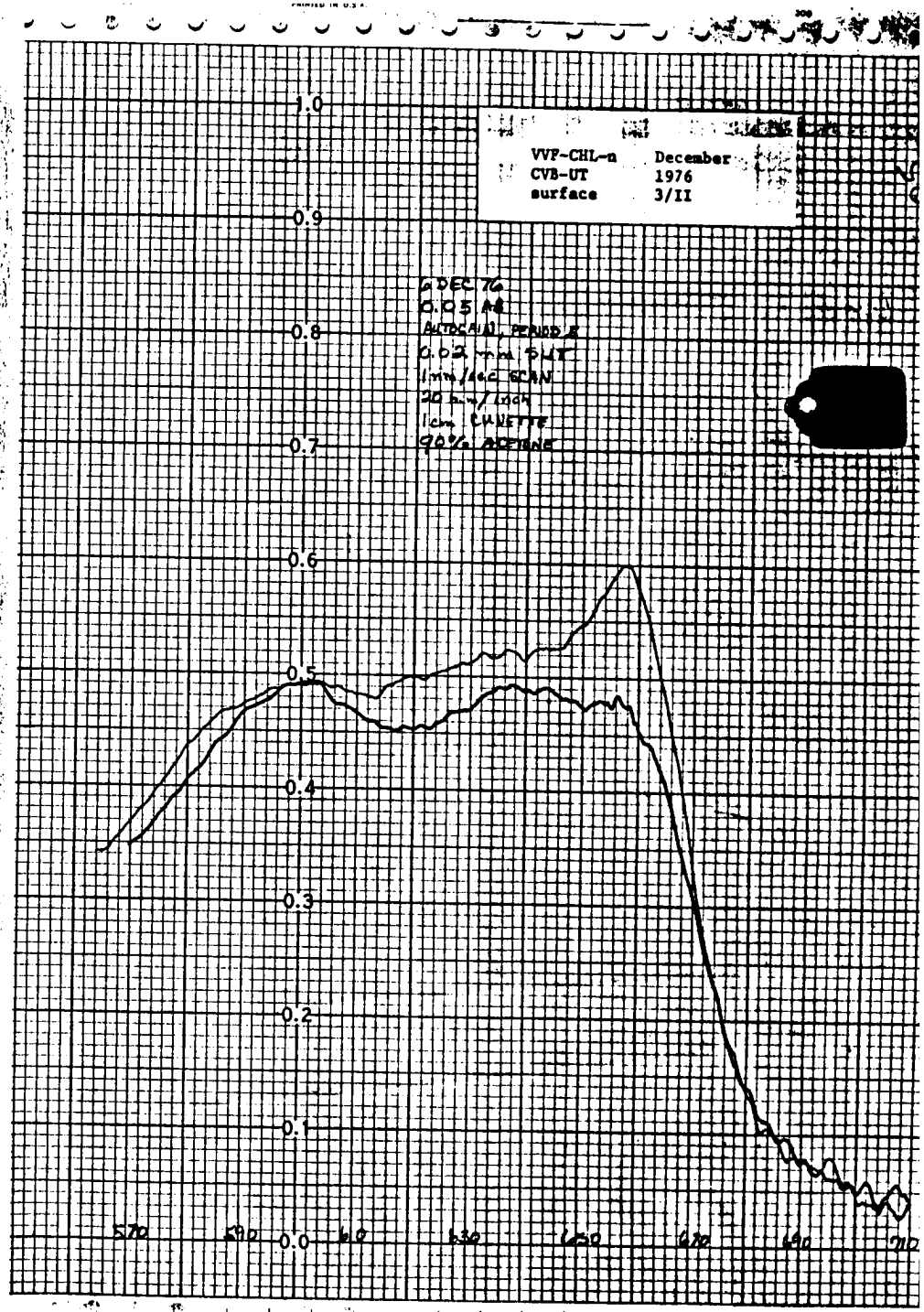

WLT-CHL-n December
CVB-UT 1976
1/2 p.z. replicate 2/II
6 DEC 76
0.05 AB
AUTOGAIN PERIOD 5
0.02 mm SLIT
1 nm/inch SCAN
20 nm/inch
1 cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
510
530
550
570
590
610
630
650
670
690
710

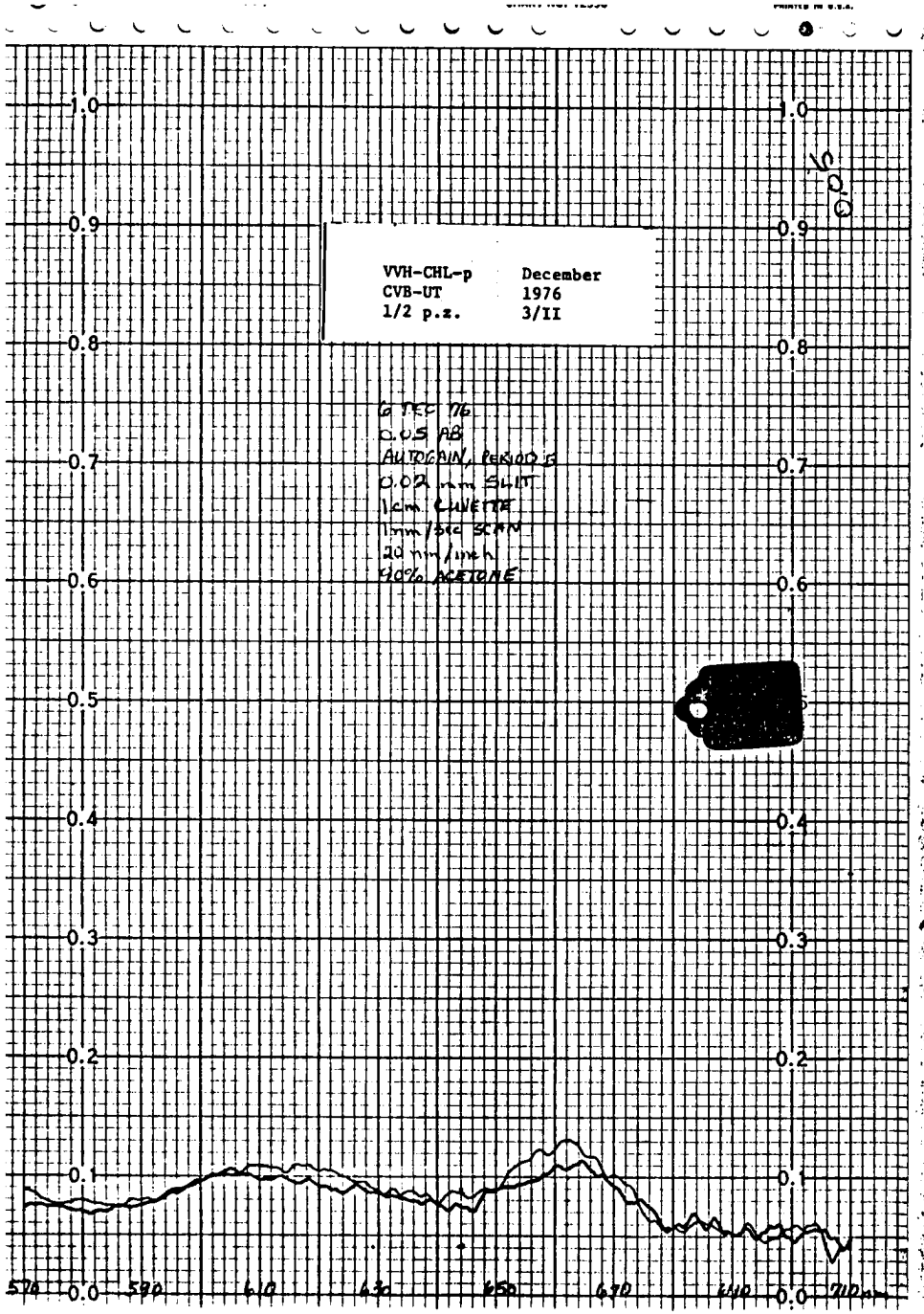

WLU-CHL-n December
CVB-UT 1976
1/2 p.z. replicate 2/II
6 DEC 1976
0.05 AB
AUTOGAIN PERIOD 5
0.02 mm SLIT
1 nm/sec SCAN
20 nm/inch
1 cm CUVETTE
90% ACETONE
1.0
0.9
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
510
530
550
570
590
610
630
650
670
690
710

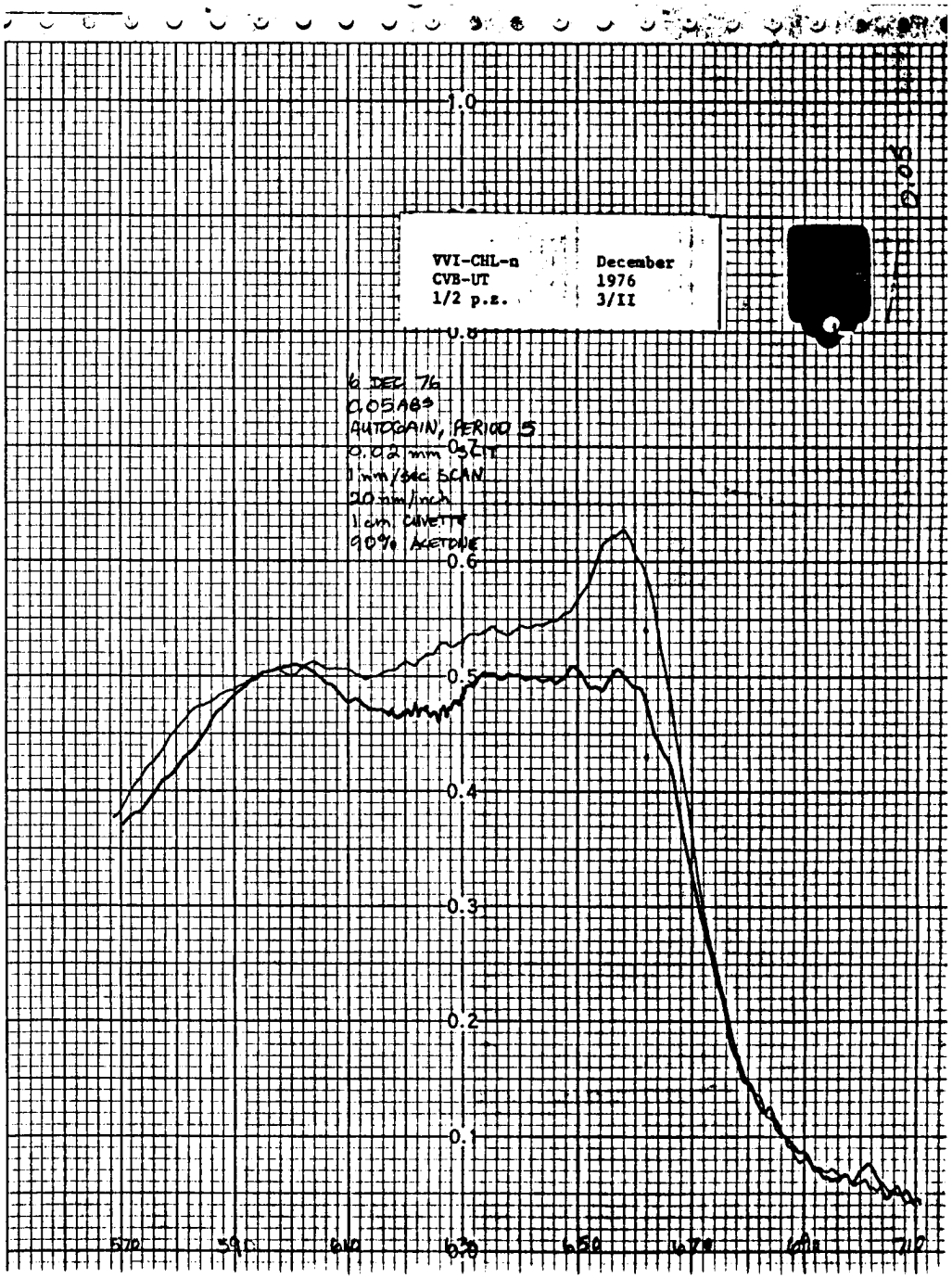

VTO-CHL-p
CVB-UT
bottom
December
1976
2/II
6 DEC 76
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
1 cm CUVETTE
1 nm/sec SCAN
20 mm/inch
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
610
630
650
670
690
710 nm

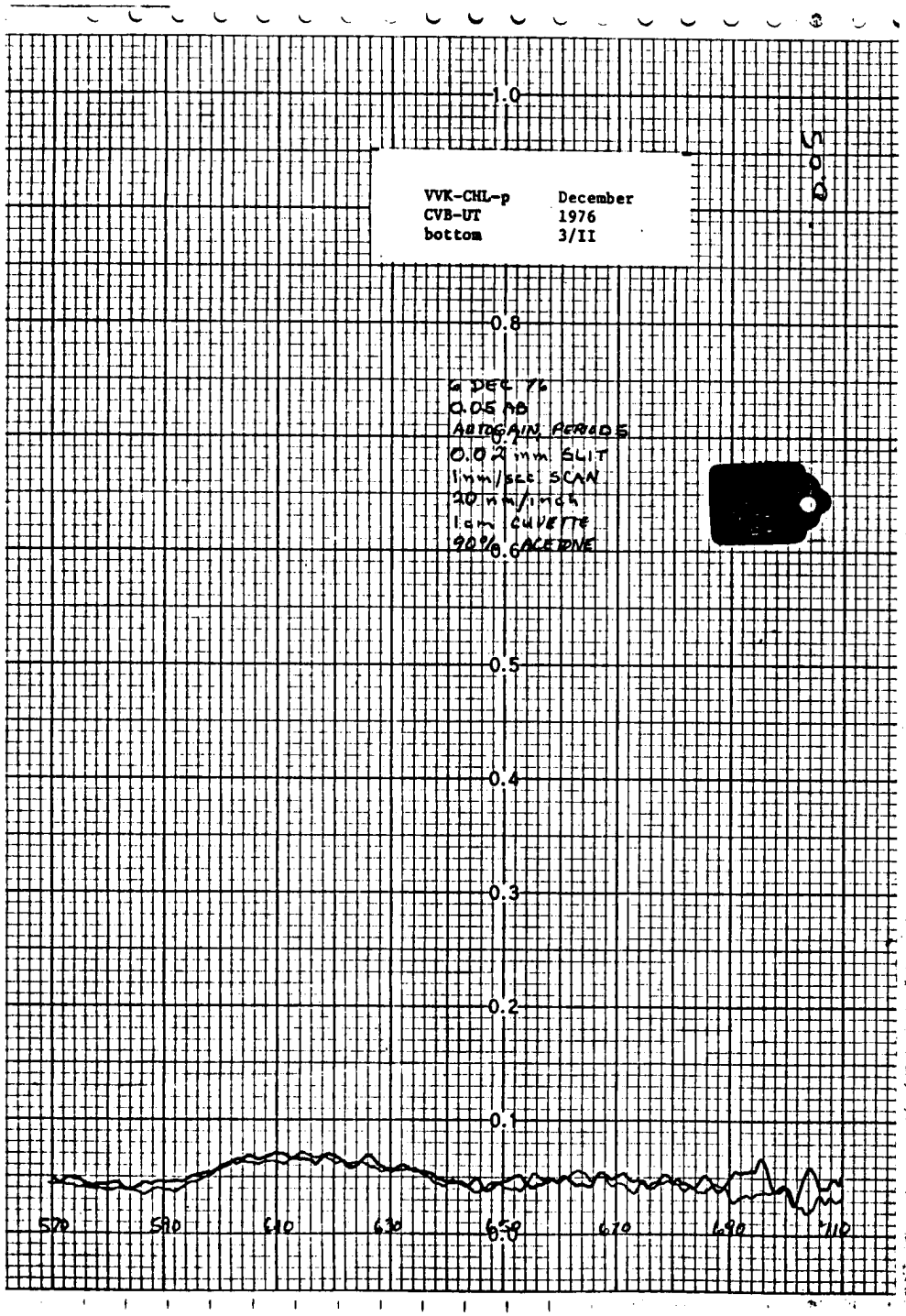

VTP-CHL-n
CVB-UT
bottom
December
1976
2/II
6 DEC 76
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
1 cm CUVETTE
1 nm/sec SCAN
20 mm/inch
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
590
610
630
650
670
690
710 nm


VVE-CHL-p December
CVB-UT 1976
surface 3/II
6 DEC 76
0.05 M8
AUTOSCAN, PERIOD 5
0.02 mm SLIT
1mm/sec SCAN
20 mm/inch
1cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 nm


VVF-CHL-n December
CVB-UT 1976
surface 3/II
6 DEC 76
0.05 M8
AUTOSCAN, PERIOD 5
0.02 mm SLIT
1mm/sec SCAN
20 mm/inch
1cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710


VVH-CHL-p
CVB-UT
1/2 p.z.
December
1976
3/II
6 DEC 76
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
1cm CUVETTE
1mm/sec SCAN
20 mm/inch
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710 nm


VVI-CHL-n
CVB-UT
1/2 p.z.
December
1976
3/II
6 DEC 76
0.05 ABS
AUTOGAIN, PERIOD 5
0.02 mm SLIT
1 mm/sec SCAN
20 mm/inch
1 cm CUVETTE
90% ACETONE
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
570
590
610
630
650
670
690
710


VVK-CHL-p December
CVB-UT 1976
bottom 3/II
6 DEC 76
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
1mm/sec SCAN
20 mm/inch
1cm CUVETTE
90% ACETONE
1.0
0.8
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690
710

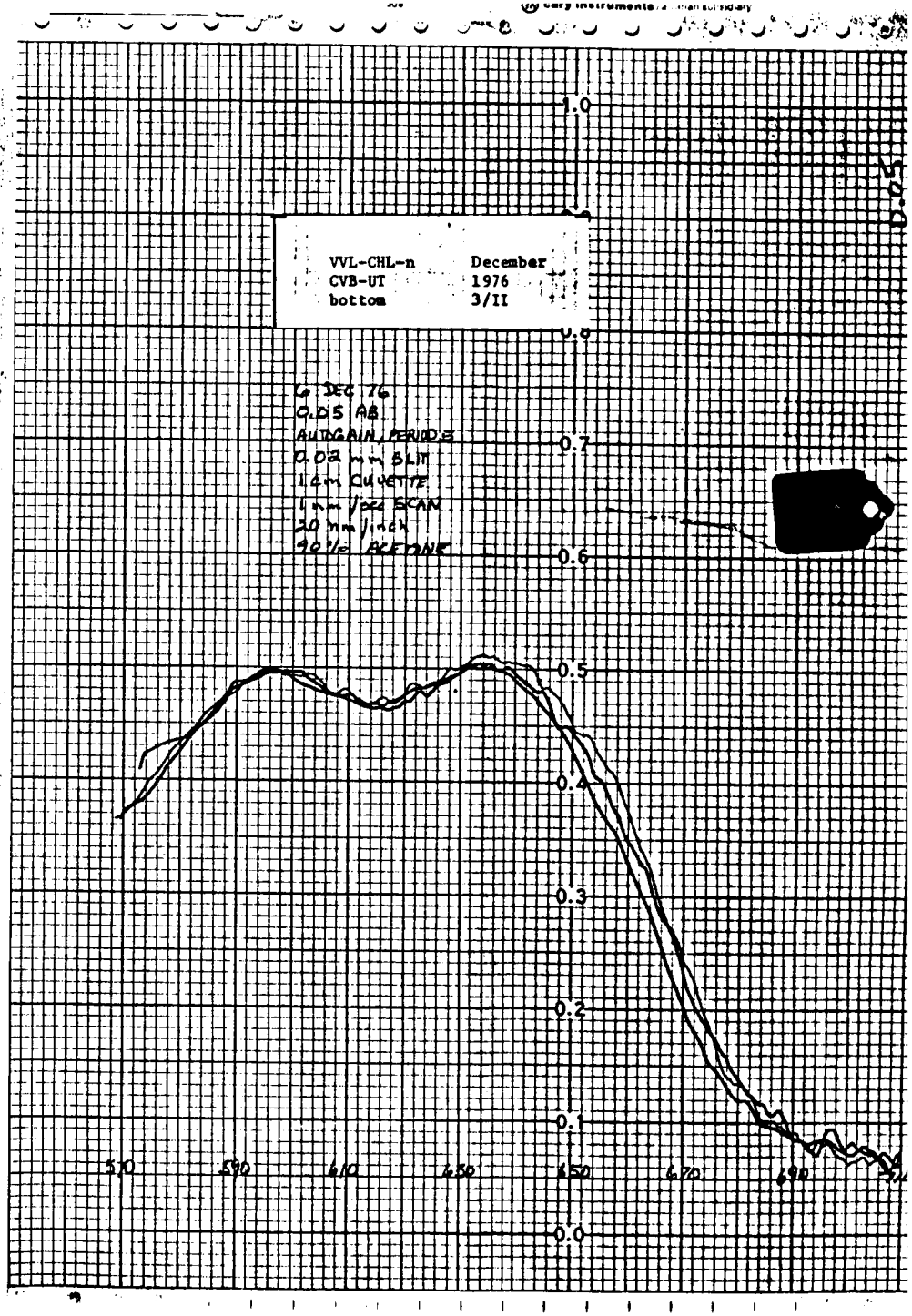

VVL-CHL-n December
CVB-UT 1976
bottom 3/II
6 DEC 76
0.05 AB
AUTOGAIN, PERIOD 5
0.02 mm SLIT
1cm CUVETTE
1mm/sec SCAN
20 mm/inch
90% ACETONE
1.0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570
590
610
630
650
670
690

TABLE 1

SPECIES DIVERSITY AND RANK ORDER OF SPECIES ABUNDANCE (CELLS/LITER)
BY SAMPLING PERIOD, STATION AND DEPTH.
DATA EXCLUDES COCCOLITHOPHORIDS

Pages (B-216 through B-285)

WINTER TRANSECT I STATION 1 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
14200	DIN	PROROCENTRUM COMPRESSUM
4980	DIA	SKELETONEMA COSTATUM
1060	DIA	NITZSCHIA PUNGENS
820	DIN	PROROCENTRUM MICANS
800	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
680	DIA	LEPTOCYLINDRUS DANICUS
620	DIA	CHAETOCEROS AFFINIS
560	DIA	CHAETOCEROS DECIPIENS
560	DIA	CHAETOCEROS SPP.
520	DIA	CHAETOCEROS CRINITUS
480	DIA	LEPTOCYLINDRUS MINIMUS
340	DIA	NAVICULA MEMBRANACEA
300	DIA	CHAETOCEROS PSEUDOCURVISETUS
280	DIA	THALASSIOSIRA ROTULA
260	DIA	COSCINODISCUS SPP.
240	DIA	DITYLUM BRIGHTWELLII
220	DIA	CHAETOCEROS BREVIS
220	DIA	CHAETOCEROS CURVISETUS
180	DIA	UNIDENTIFIED CENTRIC
160	DIA	THALASSIOSIRA DECIPIENS
160	DIA	BIDDULPHIA CHINENSIS
140	DIA	CHAETOCEROS COMPRESSUS
120	DIA	NAVICULA DISTANS
120	DIA	THALASSIONEMA NITZSCHOIDES
100	DIA	PLEUROSIGMA SP. 1 (SMALL)
100	DIN	EXUVIELLA LIMA
80	DIN	PERIDINIUM PENTAGONUM
80	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
80	DIA	NITZSCHIA SERIATA
60	DIA	NAVICULA SPP.
60	DIA	CHAETOCEROS DIVERSUS
60	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)
60	DIA	GUINARDIA FLACCIDA
60	DIA	RHIZOSOLENIA ALATA V. ALATA
60	DIA	UNIDENTIFIED PENNATE
52	DIA	CERATAULINA BERGONII
40	DIA	STEPHANOPYXIS PALMERIANA
40	DIN	PROROCENTRUM SPP.
40	DIN	DINOPHYSIS CAUDATA V. PEDUNCULATA
40	DIN	PERIDINIUM CERASUS
40	DIN	POLYKRIKOS SCHWARTZII
40	DIA	NITZSCHIA SPP.
20	DIN	CERATIUM GRACILE
20	DIA	CHAETOCEROS PERUVIANUS
20	DIN	CERATIUM HIRCUS
20	DIA	RHIZOSOLENIA CALCAR AVIS
20	DIA	RHIZOSOLENIA SETIGERA
20	DIN	PERIDINIUM OBLONGUM
1	DIA	DIPLONEIS SPP.
1	DIA	RHIZOSOLENIA STOLTERFOTHII

29234 =TOTAL ABUNDANCE DIVERSITY = 3.10406

WINTER TRANSECT I STATION 1 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
21920	DIN	PROROCENTRUM COMPRESSUM
6520	DIA	SKELETONEMA COSTATUM
1900	DIA	NITZSCHIA PUNGENS
1080	DIA	CHAETOCEROS COMPRESSUS
1040	DIN	PROROCENTRUM MICANS
760	DIA	CHAETOCEROS SPP.
740	DIA	LEPTOCYLINDRUS MINIMUS
700	DIA	CHAETOCEROS DADAYI
620	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
540	DIA	CHAETOCEROS DECIPIENS
500	DIA	CHAETOCEROS AFFINIS
400	DIA	CHAETOCEROS LACINOSUS
360	DIA	CHAETOCEROS PSEUDOCURVISETUS
360	DIA	DITYLUM BRIGHTWELLII
340	DIA	CERATAULINA BERGONII
300	DIA	THALASSIOSIRA ROTULA
260	DIA	COSCINODISCUS SPP.
240	DIA	BIDDULPHIA CHINENSIS
200	DIA	CHAETOCEROS DANICUS
200	DIA	CHAETOCEROS DIVERSUS
180	DIA	NAVICULA MEMBRANACEA
140	DIA	THALASSIOSIRA DECIPIENS
120	DIA	PLEUROSIGMA SPP.
120	DIA	NAVICULA SPP.
120	DIA	NAVICULA DISTANS
80	DIA	RHIZOSOLENIA ALATA
60	DIN	PERIDINIUM PENTAGONUM
60	DIN	PERIDINIUM SPP.
60	DIA	COSCINODISCUS MARGINATUS
60	DIN	DINOPHYSIS SPP.
60	DIN	CERATIUM HIRCUS
40	DIA	RHIZOSOLENIA STYLIFORMIS
40	DIN	GONYAULAX FRAGILIS
40	DIA	THALASSIONEMA NITZSCHOIDES
40	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
40	DIN	DINOPHYSIS CAUDATA V. PEDUNCULATA
40	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)
20	DIN	PROROCENTRUM SPP.
20	DIN	CERATIUM FURCA
20	DIA	NITZSCHIA CLOSTERIUM
20	DIN	UNIDENTIFIED DINOFLAGELLATES
1	DIA	GUINARDIA FLACCIDA
1	DIA	RHIZOSOLENIA CALCAR AVIS
1	DIA	CHAETOCEROS BREVIS

40323 =TOTAL ABUNDANCE DIVERSITY = 2.73053

WINTER TRANSECT I STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
6800	DIA	NITZSCHIA DELICATISSIMA
6000	DIA	CHAETOCEROS COMPRESSUS
5400	DIA	LEPTOCYLINDRUS DANICUS
4600	DIA	LEPTOCYLINDRUS MINIMUS
3200	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
3000	DIA	CERATAULINA BERGONII
2200	DIA	CHAETOCEROS SPP.
2000	DIA	NAVICULA MEMBRANACEA
2000	DIA	NITZSCHIA PUNGENS
2000	DIA	CHAETOCEROS DECIPIENS
1400	DIA	CHAETOCEROS DIVERSUS (NEW)
1000	DIA	DACTYLIOSOLEN MEDITERRANEUS
800	DIA	RHIZOSOLENIA DELICATULA
800	DIA	RHIZOSOLENIA STOLTERFOTHII
800	DIA	CHAETOCEROS AFFINIS
800	DIA	SKELETONEMA COSTATUM
600	DIA	NITZSCHIA SPP.
400	DIA	RHIZOSOLENIA ALATA V. ALATA
400	DIA	DITYLUM BRIGHTWELLII
400	DIA	CHAETOCEROS PELAGICUS
400	DIN	UNIDENTIFIED DINOFLAGELLATES
200	DIA	HEMIAULUS SINENSIS
200	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)
200	DIA	EUCAMPIA CORNUTA
200	DIA	RHIZOSOLENIA FRAGILLISSIMA
200	DIA	PLEUROSIGMA SP. 1
200	DIA	GUINARDIA FLACCIDA
1	DIN	CERATIUM TRIPOS
1	DIA	THALASSIONEMA NITZSCHOIDES
1	DIA	CHAETOCEROS BREVIS
1	DIA	CHAETOCEROS PERUVIANUS
1	DIA	BACTERIASTRUM HYALINUM
1	DIN	PERIDINIUM SPP.
1	DIA	THALASSIOSIRA ROTULA
1	DIA	NAVICULA SPP.

46208 =TOTAL ABUNDANCE DIVERSITY = 4.01242

WINTER TRANSECT I STATION 2 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
54040	DIA	SKELETONEMA COSTATUM
980	DIA	CHAETOCEROS COMPRESSUS
740	DIA	NITZSCHIA DELICATISSIMA
540	DIA	LEPTOCYLINDRUS DANICUS
500	DIA	NITZSCHIA CLOSTERIUM
460	DIA	LEPTOCYLINDRUS MINIMUS
400	DIA	CERATAULINA BERGONII
380	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
360	DIA	CHAETOCEROS SPP.
320	DIA	NITZSCHIA PUNGENS
280	DIA	CHAETOCEROS DECIPIENS
260	DIA	CHAETOCEROS MESSANENSIS
260	DIA	CHAETOCEROS PELAGICUS
260	DIA	GUINARDIA FLACCIDA
240	DIA	UNIDENTIFIED PENNATE
220	DIA	CHAETOCEROS RADIANS
140	DIN	GONYAULAX POLYGRAMMA
120	DIA	NITZSCHIA SPP.
100	DIA	CHAETOCEROS LACINOSUS
100	DIA	NITZSCHIA SERIATA
100	DIA	NAVICULA SPP.
100	DIN	PYROCYSTIS SPP.
100	DIA	EUCAMPIA ZODIACUS
80	DIA	HEMIAULUS SINENSIS
80	DIA	BIDDULPHIA CHINENSIS
80	DIA	CHAETOCEROS TORTISSIMUS
80	DIA	PLEUROSIGMA SPP.
80	DIA	THALASSIOTHRIX MEDITERRANES
80	DIA	NITZSCHIA PANDURIFORMIS
80	DIA	DACTYLIOSOLEN ANTARCTICUS
60	DIN	UNIDENTIFIED DINOFLAGELLATES
60	DIA	NAVICULA MARNRIKAE
60	DIA	CHAETOCEROS CURVISETUS
40	DIA	CHAETOCEROS PERUVIANUS
40	DIN	CERATIUM KOFOIDII
40	DIN	PERIDINIUM SPP.
40	DIA	DIPLONEIS SPP.
40	DIA	NAVICULA MEMBRANACEA
40	DIA	RHIZOSOLENIA SETIGERA
40	DIA	SYNEDRA SPP.
40	DIA	DITYLUM BRIGHTWELLII
20	DIA	RHIZOSOLENIA DELICATULA
20	DIA	THALASSIONEMA NITZSCHOIDES
20	DIA	EUCAMPIA CORNUTA
20	DIA	NAVICULA DISTANS
20	DIA	THALASSIOSIRA SUBTILIS
20	DIA	CHAETOCEROS DANICUS
20	DIA	HEMIDISCUS CUNIFORMIS
20	DIA	THALASSIOSIRA DECIPIENS
1	DIA	RHIZOSOLENIA ALATA V. ALATA

62221 =TOTAL ABUNDANCE DIVERSITY = 1.19619

WINTER TRANSECT I STATION 3 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
810	DIA	SKELETONEMA COSTATUM
600	DIA	NITZSCHIA DELICATISSIMA
430	DIA	NITZSCHIA LONGISSIMA
410	DIA	THALASSIONEMA NITZSCHOIDES
340	DIA	NITZSCHIA SP. 1 (CURV-CHAIN)
260	DIA	CHAETOCEROS SPP.
220	DIA	THALASSIOTHRIX FRAUNFELDII
210	DIA	BACTERIASTRUM ELONGATUM
200	DIA	NITZSCHIA PUNGENS
180	DIA	DACTYLIOSOLEN MEDITERRANEUS
150	DIA	CHAETOCEROS LACINOSUS
150	DIA	CHAETOCEROS PELAGICUS
130	DIA	BACTERIASTRUM HYALINUM
100	DIN	UNIDENTIFIED DINOFLAGELLATES
100	DIA	LEPTOCYLINDRUS DANICUS
90	DIA	CHAETOCEROS SOCIALIS
90	DIA	NAVICULA MEMBRANACEA
70	DIA	PLEUROSIGMA SPP.
70	DIA	RHIZOSOLENIA STOLTERFOTHII
70	DIA	THALASSIOSIRA DECIPIENS
70	DIA	RHIZOSOLENIA SETIGERA
60	DIN	GYMNODINIUM SPP.
50	DIA	CHAETOCEROS CURVISETUS
50	DIA	CHAETOCEROS DECIPIENS
50	DIA	NITZSCHIA CLOSTERIUM
50	DIA	THALASSIOSIRA SUBTILIS
50	DIA	PODOSIRA STELLIGER
30	DIA	SCHRODERELLA DELICATULA
30	SIL	DICTYOCHA FIBULA
30	DIA	CHAETOCEROS AFFINIS
30	DIA	CHAETOCEROS MESSANENSIS
30	DIA	DACTYLIOSOLEN ANTARCTICUS
20	DIN	GONYAULAX SPP.
20	DIA	LAUDERIA BOREALIS
20	DIA	HEMIAULUS HAUCKII
20	DIA	BACILLARIA PARADOXA
20	DIA	CYMATOSIRA BELGICA
20	SIL	DISTEPHANUS SPECULUM
20	DIA	RHIZOSOLENIA IMBRICATA V. SHRUBSOLEI
10	DIA	COSCINODISCUS MARGINATUS
10	DIA	COSCINODISCUS SPP.
10	DIA	COSCINODISCUS LINEATUS
10	DIN	PERIDINIUM SPP.
10	DIA	EUCAMPIA ZODIACUS
10	DIA	RHIZOSOLENIA DELICATULA
10	DIA	THALASSIOTHRIX MEDITERRANES
10	DIN	PROROCENTRUM MICANS
10	DIA	LEPTOCYLINDRUS MINIMUS
10	DIN	PHALACHROMA SP. 1 (ROTUNDATA)
10	DIA	DITYLUM BRIGHTWELLII
10	DIA	GUINARDIA FLACCIDA
10	DIA	AMPHORA SPP.
10	DIA	EUCAMPIA CORNUTA

5490 =TOTAL ABUNDANCE DIVERSITY = 4.65178

WINTER TRANSECT I STATION 3 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
1000	DIA	NITZSCHIA LONGISSIMA
680	DIA	SKELETONEMA COSTATUM
600	DIA	CHAETOCEROS PELAGICUS
500	DIA	NITZSCHIA SP. 1 (CURV-CHAIN)
440	DIA	NITZSCHIA DELICATISSIMA
400	DIA	THALASSIOTHRIX FRAUNFELDII
380	DIA	THALASSIONEMA NITZSCHOIDES
260	DIA	UNIDENTIFIED PENNATE
160	DIA	CHAETOCEROS SPP.
140	DIA	NITZSCHIA PUNGENS
140	DIA	RHIZOSOLENIA STOLTERFOTHII
140	DIA	UNIDENTIFIED CENTRIC
120	DIA	RHIZOSOLENIA SETIGERA
120	DIA	CHAETOCEROS PSEUDOCRINITUS
120	DIA	CHAETOCEROS LACINOSUS
120	DIA	CHAETOCEROS DECIPIENS
100	DIA	PLEUROSIGMA SPP.
80	DIA	BACTERIASTRUM ELONGATUM
60	DIA	DACTYLIOSOLEN MEDITERRANEUS
60	DIA	LEPTOCYLINDRUS DANICUS
40	DIA	RHIZOSOLENIA FRAGILLISSIMA
40	DIA	NAVICULA MEMBRANACEA
40	SIL	DICTYOCHA FIBULA
40	DIA	EUCAMPIA ZODIACUS
40	DIA	NAVICULA SPP.
40	DIN	UNIDENTIFIED DINOFLAGELLATES
20	DIA	THALASSIOSIRA SUBTILIS
20	DIN	GYMNODINIUM SPP.
20	SIL	DISTEPHANUS SPECULUM
20	DIA	COSCINODISCUS LINEATUS
20	DIA	PODOSIRA STELLIGER
20	DIA	PLANKTONIELLA SOL
20	DIA	CORETHRON HYSTRIX
20	DIA	HEMIAULUS HAUCKII
20	DIA	CHAETOCEROS EIBENII
20	DIA	EUCAMPIA CORNUTA
20	DIA	THALASSIOSIRA DECIPIENS
1	DIA	AMPHORA SPP.
1	DIA	CHAETOCEROS CURVISETUS
1	DIA	GUINARDIA FLACCIDA

6083 =TOTAL ABUNDANCE DIVERSITY = 4.25339

WINTER TRANSECT II STATION 1 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
3160	DIN	PROROCENTRUM COMPRESSUM
3160	DIN	PROROCENTRUM SP. 1 (SMALL)
760	DIA	SKELETONEMA COSTATUM
540	DIN	PROROCENTRUM MICANS
460	DIA	NITZSCHIA PUNGENS
340	DIN	GONYAULAX POLYGRAMMA
300	DIA	NITZSCHIA PACIFICA
280	DIN	UNIDENTIFIED DINOFLAGELLATES
240	DIA	THALASSIOSIRA DECIPIENS
200	DIA	LEPTOCYLINDRUS DANICUS
160	DIA	NITZSCHIA LONGISSIMA
100	DIA	UNIDENTIFIED PENNATE
100	DIA	UNIDENTIFIED CENTRIC
100	DIA	CONSCINODISCUS RADIATUS
100	DIA	COSCINODISCUS CENTRALIS
80	DIA	PLEUROSIGMA SPP.
60	DIA	NAVICULA SPP.
60	DIN	DINOPHYSIS CAUDATA V. PEDUNCULATA
40	DIN	EXUVIELLA SPP.
40	DIA	THALASSIONEMA NITZSCHOIDES
40	DIN	DINOPHYSIS CAUDATA V. ACUTIFORMIS
20	DIA	NITZSCHIA PANDURIFORMIS
20	DIN	PERIDINIUM SPP.
20	DIA	DITYLUM BRIGHTWELLII
20	DIN	PERIDINIUM TUBA
20	DIA	CERATAULINA BERGONII
20	DIA	CHAETOCEROS SPP.
20	DIA	NAVICULA DISTANS
20	DIA	THALASSIOSIRA ROTULA
20	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)
1	DIN	PERIDINIUM PENTAGONUM
1	DIA	RHIZOSOLENIA ROBUSTA
1	DIA	BIDDULPHIA CHINENSIS
1	DIA	CHAETOCEROS BREVIS
1	DIA	NITZSCHIA DELICATISSIMA
1	DIA	RHIZOSOLENIA SETIGERA

10506 =TOTAL ABUNDANCE DIVERSITY = 3.15964

WINTER TRANSECT II STATION 1 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
1640	DIN	PROROCENTRUM COMPRESSUM
460	DIA	THALASSIOSIRA DECIPIENS
440	DIA	NITZSCHIA PUNGENS
370	DIN	GONYAULAX POLYGRAMMA
320	DIN	PROROCENTRUM MICANS
260	DIA	NITZSCHIA LONGISSIMA
190	DIN	UNIDENTIFIED DINOFLAGELLATES
150	DIA	NITZSCHIA SPP.
140	DIN	PYROPHACUS HOROLOGIUM
130	DIA	LEPTOCYLINDRUS DANICUS
120	DIA	UNIDENTIFIED PENNATE
110	DIN	PERIDINIUM PALLIDUM
100	DIA	NITZSCHIA PACIFICA
100	DIA	SKELETONEMA COSTATUM
60	DIA	THALASSIONEMA NITZSCHOIDES
50	DIN	GYMNODINIUM SPP.
50	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
50	DIA	PLEUROSIGMA SPP.
50	DIN	GONYAULAX SPP.
50	DIA	CHAETOCEROS DECIPIENS
40	DIA	COSCINODISCUS MARGINATUS
40	DIA	NITZSCHIA PANDURIFORMIS
40	DIA	CERATAULINA BERGONII
40	DIA	NITZSCHIA DELICATISSIMA
30	DIA	PLEUROSIGMA MARINUM
30	DIN	DINOPHYSIS CAUDATA V. PEDUNCULATA
30	DIA	COSCINODISCUS CENTRALIS
20	DIA	THALASSIOSIRA ROTULA
20	DIA	PLEUROSIGMA ANGULATUM
20	SIL	DICTYOCHA FIBULA
20	DIN	PERIDINIUM SPP.
20	DIA	BIDDULPHIA CHINENSIS
20	DIN	CERATIUM HIRCUS
10	DIA	DIPLONEIS SPP.
10	DIA	DITYLUM BRIGHTWELLII
10	DIA	HEMIDISCUS CUNIFORMIS
10	DIA	THALASSIOTHRIX FRAUNFELDII
10	DIN	PERIDINIUM VENUSTRUM
10	DIA	CHAETOCEROS SPP.
10	DIN	CERATIUM TRIPOS
10	DIN	PERIDINIUM SUBPYRIFORME
10	DIA	NAVICULA SPP.
10	DIA	UNIDENTIFIED CENTRIC

5310 =TOTAL ABUNDANCE DIVERSITY = 3.98203

WINTER TRANSECT II STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
1500	DIA	SKELETONEMA COSTATUM
410	DIA	CHAETOCEROS DECIPIENS
230	DIA	NITZSCHIA PUNGENS
230	DIA	NITZSCHIA LONGISSIMA
230	DIA	PLEUROSIGMA SP. 1 (SMALL)
210	DIA	CHAETOCEROS SPP.
180	DIA	BACTERIASTRUM HYALINUM
150	DIA	CHAETOCEROS CURVISETUS
130	DIA	NITZSCHIA DELICATISSIMA
130	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
120	DIA	UNIDENTIFIED PENNATE
110	DIA	THALASSIOSIRA DECIPIENS
110	DIA	NITZSCHIA PACIFICA
100	DIA	LEPTOCYLINDRUS DANICUS
80	DIA	THALASSIONEMA NITZSCHOIDES
70	DIA	BIDDULPHIA CHINENSIS
70	DIA	NAVICULA MEMBRANACEA
60	DIN	PYROPHACUS HOROLOGIUM
60	DIN	GONYAULAX POLYGRAMMA
60	DIA	LEPTOCYLINDRUS MINIMUS
50	DIA	NAVICULA SPP.
40	DIA	SCHRODERELLA DELICATULA
40	DIA	RHIZOSOLENIA IMBRICATA
40	DIA	PLEUROSIGMA STRIGOSUM
40	DIA	PLEUROSIGMA ANGULATUM
40	DIA	CHAETOCEROS DIDYMUS V. ANGLICA
30	DIA	CERATAULINA BERGONII
30	DIA	NITZSCHIA PANDURIFORMIS
30	DIN	UNIDENTIFIED DINOFLAGELLATES
30	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
30	DIA	THALASSIOSIRA ROTULA
20	DIN	PROROCENTRUM COMPRESSUM
20	DIA	PLEUROSIGMA MARINUM
20	DIA	EUCAMPIA CORNUTA
20	DIA	NAVICULA DISTANS
20	DIA	PLEUROSIGMA FORMOSUM
10	DIN	PERIDINIUM CERASUS
10	DIA	GUINARDIA FLACCIDA
10	DIN	CERATIUM FUSUS
10	DIN	PROROCENTRUM MICANS
10	DIN	GLENODINIUM WARMINGII
10	DIA	THALASSIOSIRA SUBTILIS
10	DIA	COSCINODISCUS MARGINATUS
10	DIA	CHAETOCEROS GRACILIS
10	DIA	AULACODISCUS SPP.
10	DIA	RHIZOSOLENIA SETIGERA
10	DIA	NITZSCHIA SP. 1 (CURV-CHAIN)
10	DIA	NITZSCHIA PUNCTATA
10	DIA	COSCINODISCUS STELLARIS
10	DIN	PERIDINIUM SPP.

4880 =TOTAL ABUNDANCE DIVERSITY = 4.25380

WINTER TRANSECT II STATION 2 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
4960	DIA	SKELETONEMA COSTATUM
420	DIA	CHAETOCEROS CURVISETUS
320	DIA	CERATAULINA BERGONII
320	DIA	NITZSCHIA PACIFICA
320	DIA	CHAETOCEROS PSEUDOCURVISETUS
280	DIA	CHAETOCEROS DECIPIENS
260	DIA	CHAETOCEROS MITRA
220	DIA	PLEUROSIGMA SP. 1 (SMALL)
220	DIA	NITZSCHIA DELICATISSIMA
180	DIA	NAVICULA MEMBRANACEA
180	DIA	UNIDENTIFIED PENNATE
160	DIA	NITZSCHIA LONGISSIMA
160	DIA	CHAETOCEROS SPP.
160	DIA	RHIZOSOLENIA STOLTERFOTHII
160	DIA	CHAETOCEROS MESSANENSIS
140	DIA	CHAETOCEROS DIDYMUS V. ANGLICA
120	DIA	CHAETOCEROS LORENZIANUS
120	DIA	NITZSCHIA SERIATA
100	DIA	NITZSCHIA PANDURIFORMIS
100	DIA	PLEUROSIGMA STRIGOSUM
80	DIA	THALASSIOSIRA DECIPIENS
80	DIA	BIDDULPHIA CHINENSIS
80	DIA	BACTERIASTRUM HYALINUM
60	DIN	UNIDENTIFIED DINOFLAGELLATES
60	DIA	THALASSIOTHRIX FRAUNFELDII
60	DIA	CHAETOCEROS LACINOSUS
60	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
60	DIN	PROROCENTRUM COMPRESSUM
40	DIA	THALASSIONEMA NITZSCHOIDES
40	DIA	NITZSCHIA PUNGENS
40	DIA	NITZSCHIA SP. 1 (CURV-CHAIN)
40	DIA	THALASSIOSIRA SUBTILIS
40	DIA	DITYLUM BRIGHTWELLII
40	DIA	UNIDENTIFIED CENTRIC
40	DIA	COSCINODISCUS MARGINATUS
40	DIA	THALASSIOTHRIX MEDITERRANES
40	DIA	PLEUROSIGMA ANGULATUM
20	DIA	COSCINODISCUS SPP.
20	DIN	PERIDINIUM SPP.
20	DIA	RHIZOSOLENIA SETIGERA
20	DIA	RHIZOSOLENIA CALCAR AVIS
20	DIN	PROROCENTRUM TRIANGULATUM
20	DIA	PLEUROSIGMA MARINUM
20	DIA	NITZSCHIA SPP.
20	DIN	PERIDINIUM GLODULUS V. QUARNERENSE
20	DIN	GONYAULAX SPP.

9980 =TOTAL ABUNDANCE DIVERSITY = 3.50353

WINTER TRANSECT II STATION 3 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
740	DIA	NITZSCHIA DELICATISSIMA
410	DIA	BACTERIASTRUM ELONGATUM
350	DIA	UNIDENTIFIED PENNATE
340	DIA	SKELETONEMA COSTATUM
290	DIA	NITZSCHIA LONGISSIMA
280	DIA	BACTERIASTRUM HYALINUM
230	DIA	NITZSCHIA CLOSTERIUM
210	DIA	CHAETOCEROS DECIPIENS
190	DIA	THALASSIOTHRIX FRAUNFELDII
160	DIA	THALASSIONEMA NITZSCHOIDES
150	DIA	RHIZOSOLENIA STOLTERFOTHII
140	DIA	NITZSCHIA SP. 1 (CURV-CHAIN)
140	DIA	NAVICULA SPP.
140	DIA	CHAETOCEROS PSEUDOCURVISETUS
140	DIA	EUCAMPIA ZODIACUS
140	DIA	EUCAMPIA CORNUTA
140	DIA	BELLEROCHEA MALLEUS
120	DIA	NITZSCHIA SERIATA
110	DIA	RHIZOSOLENIA SETIGERA
110	DIA	CHAETOCEROS SPP.
100	DIA	THALASSIOSIRA DECIPIENS
90	DIA	NITZSCHIA PUNGENS
90	SIL	DICTYOCHA FIBULA
90	DIA	NITZSCHIA SPP.
90	DIA	NAVICULA MEMBRANACEA
80	DIA	UNIDENTIFIED CENTRIC
80	DIA	RHIZOSOLENIA DELICATULA
70	DIA	CHAETOCEROS SOCIALIS
60	DIA	NAVICULA WARARIKAE
50	DIA	SCHRODERELLA DELICATULA
50	DIN	UNIDENTIFIED DINOFLAGELLATES
50	DIA	DACTYLIOSOLEN MEDITERRANEUS
40	DIA	THALASSIOTHRIX MEDITERRANES
40	DIA	CHAETOCEROS COMPRESSUS
40	DIA	CHAETOCEROS LACINOSUS
40	DIA	CHAETOCEROS PELAGICUS
40	DIA	BACTERIASTRUM COMOSUM
30	DIA	CHAETOCEROS ATLANTICUS V. AUDAX
30	DIA	COSCINODISCUS LINEATUS
30	DIA	PLEUROSIGMA SPP.
30	DIA	CHAETOCEROS CURVISETUS
30	DIA	LEPTOCYLINDRUS MINIMUS
20	DIA	THALASSIOSIRA ROTULA
20	DIA	HEMIAULUS HAUCKII
20	DIA	CERATAULINA BERGONII
20	DIA	RHIZOSOLENIA IMBRICATA V. SHRUBSOLEI
20	DIA	CHAETOCEROS LORENZIANUS
20	DIA	THALASSIOSIRA SUBTILIS
10	DIA	CHAETOCEROS GRACILIS
10	DIA	CORETHRON HYSTRIX
10	DIA	DITYLUM BRIGHTWELLII
10	DIN	PYROPHACUS HOROLOGIUM
10	DIA	BACTERIOSIRA FRAGILIS

WINTER TRANSECT II STATION 3 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
1320	DIA	NITZSCHIA DELICATISSIMA
980	DIA	THALASSIONEMA NITZSCHOIDES
680	DIA	SKELETONEMA COSTATUM
540	DIA	CHAETOCEROS DECIPIENS V. SINGULARIS
440	DIA	NITZSCHIA SP. 1 (CURV-CHAIN)
420	DIA	BACTERIASTRUM ELONGATUM
360	DIA	BACTERIASTRUM HYALINUM
360	DIA	CHAETOCEROS COMPRESSUS
260	DIA	MELOSIRA SULCATA
260	DIA	NITZSCHIA LONGISSIMA
240	DIA	CHAETOCEROS DECIPIENS
220	DIA	CHAETOCEROS MESSANENSIS
180	DIA	UNIDENTIFIED PENNATE
160	DIA	THALASSIOTHRIX FRAUNFELDII
160	DIN	UNIDENTIFIED DINOFLAGELLATES
140	DIA	NITZSCHIA SP. 2 (SMALL-CAPITATE)
140	DIA	CHAETOCEROS SPP.
140	DIA	NAVICULA SPP.
140	DIA	RHIZOSOLENIA STOLTERFOTHII
120	DIA	NITZSCHIA CLOSTERIUM
100	DIA	DACTYLIOSOLEN MEDITERRANEUS
100	DIA	THALASSIOSIRA ROTULA
80	DIA	RHIZOSOLENIA SETIGERA
80	DIA	CHAETOCEROS LORENZIANUS
80	DIA	CORETHRON HYSTRIX
60	DIA	UNIDENTIFIED CENTRIC
60	DIA	THALASSIOTHRIX MEDITERRANES
60	DIA	EUCAMPIA CORNUTA
60	DIA	CHAETOCEROS CURVISETUS
40	DIA	THALASSIOSIRA SUBTILIS
40	DIA	CHAETOCEROS AFFINIS
40	DIA	NAVICULA MEMBRANACEA
40	DIA	SCHRODERELLA DELICATULA
40	DIA	CERATAULINA BERGONII
40	DIA	NITZSCHIA SERIATA
40	DIA	THALASSIOSIRA DECIPIENS
40	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
20	DIA	NITZSCHIA PUNGENS
20	DIA	RHIZOSOLENIA FRAGILLISSIMA
20	DIA	DITYLUM BRIGHTWELLII
20	DIA	COSCINODISCUS LINEATUS
20	DIA	CHAETOCEROS PERUVIANUS
20	SIL	DICTYOCHA FIBULA
20	DIA	RHIZOSOLENIA STYLIFORMIS V. LONGISPIN
20	BLU	TRICHODESMIUM SPP.
20	DIA	CORETHRON PELAGICUS
20	DIN	PYROPHACUS HOROLOGIUM
20	DIN	GONYAULAX POLYGRAMMA
20	DIA	GUINARDIA FLACCIDA
20	DIN	GYMNODINIUM SPP.
20	DIN	PODOLAMPAS SPINIFERA
20	DIN	CERATIUM KOFOIDII
20	DIA	COSCINODISCUS SPP.

10	DIN	EXUVIELLA LIMA
10	DIN	PODOLAMPAS SPINIFERA
10	DIA	GUINARDIA FLACCIDA
10	DIN	GONYAULAX POLYGRAMMA
10	DIA	CHAETOCEROS GLANDAZII
10	DIA	RHIZOSOLENIA HEBETATA V. SEMISPINA
10	DIA	COSCINODISCUS SPP.
10	DIA	COSCINODISCUS MARGINATUS
10	DIA	LAUDERIA BOREALIS
10	BLU	BLUE-GREEN FILAMENT

6450 =TOTAL ABUNDANCE DIVERSITY = 5.13891

1	DIA	DACTYLIOSOLEN ANTARCTICUS
1	DIA	CHAETOCEROS ATLANTICUS V. BOREALIS
1	DIA	HEMIAULUS HAUCKII
1	DIA	PLEUROSIGMA STRIGOSUM
1	DIA	CHAETOCEROS BREVIS
1	DIA	DITYLUM SOL

8606 =TOTAL ABUNDANCE DIVERSITY = 4.68911

WINTER TRANSECT III STATION 1 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
260	DIA	LEPTOCYLINDRUS MINIMUS
200	DIA	NITZSCHIA PUNGENS
120	DIA	STEPHANOPYXIS TURRIS
120	DIN	PROROCENTRUM COMPRESSUM
120	DIA	UNIDENTIFIED CENTRIC
120	DIA	NITZSCHIA CLOSTERIUM
80	DIA	DITYLUM BRIGHTWELLII
80	DIA	CHAETOCEROS DECIPIENS
60	DIA	UNIDENTIFIED PENNATE
60	DIA	DACTYLIOSOLEN MEDITERRANEUS
60	DIA	CONSCINODISCUS RADIATUS
60	DIA	NITZSCHIA PACIFICA
60	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
60	DIA	MELOSIRA SULCATA
60	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)
60	DIA	COSCINODISCUS MARGINATUS
40	DIA	NITZSCHIA SPP.
40	DIA	THALASSIONEMA NITZSCHOIDES
40	DIA	NITZSCHIA DELICATISSIMA
40	DIN	UNIDENTIFIED DINOFLAGELLATES
40	DIA	CHAETOCEROS BREVIS
20	DIN	CERATIUM FURCA
20	DIA	SKELETONEMA COSTATUM
20	DIA	NAVICULA SPP.
20	DIA	NAVICULA MEMBRANACEA
20	DIA	PLEUROSIGMA MARINUM
20	DIA	THALASSIOSIRA SUBTILIS
20	DIN	DINOPHYSIS CAUDATA V. PEDUNCULATA
20	DIA	PLEUROSIGMA SPP.
20	DIA	THALASSIOSIRA DECIPIENS
20	DIA	CHAETOCEROS SPP.
20	DIA	PLEUROSIGMA STRIGOSUM
20	DIN	PERIDINIUM SPP.
20	DIN	GYMNODINIUM SPP.
1	DIA	CHAETOCEROS DIVERSUS (NEW)
1	DIA	BIDDULPHIA CHINENSIS
1	DIA	COSCINODISCUS CENTRALIS
1	DIA	COSCINODISCUS LINEATUS
1	DIN	CERATIUM HIRCUS

2065 =TOTAL ABUNDANCE DIVERSITY = 4.66801

WINTER TRANSECT III STATION 1 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
340	DIA	NITZSCHIA PUNGENS
320	DIA	THALASSIOSIRA ROTULA
180	DIA	UNIDENTIFIED PENNATE
160	DIA	THALASSIOSIRA DECIPIENS
100	DIA	CERATAULINA BERGONII
100	DIA	NITZSCHIA CLOSTERIUM
80	DIN	UNIDENTIFIED DINOFLAGELLATES
80	DIA	NITZSCHIA PACIFICA
60	DIA	RHIZOSOLENIA ALATA V. INDICA
60	DIA	NITZSCHIA DELICATISSIMA
60	DIN	PROROCENTRUM COMPRESSUM
40	DIA	NAVICULA MEMBRANACEA
40	DIA	PLEUROSIGMA SPP.
40	DIA	COSCINODISCUS SPP.
40	DIA	COSCINODISCUS LINEATUS
20	DIA	ASTEROMPHALUS CLEAVEANUS
20	DIA	COSCINODISCUS OCULIS IRIDIS
20	DIA	UNIDENTIFIED CENTRIC
20	DIA	CHAETOCEROS DECIPIENS
20	DIA	RHIZOSOLENIA ROBUSTA
20	DIA	GUINARDIA FLACCIDA
20	DIN	PROROCENTRUM MICANS
20	DIA	NITZSCHIA PANDURIFORMIS
20	DIN	CERATIUM FURCA
20	DIN	PERIDINIUM SPP.
20	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)
20	DIA	RHIZOSOLENIA STOLTERFOTHII
20	DIN	CERATIUM HIRCUS
1	DIN	DINOPHYSIS DIEGENS
1	DIN	CERATIUM TRIPOS
1	DIA	NAVICULA DISTANS
1	DIN	PYROPHACUS HOROLOGIUM
1	DIN	PERIDINIUM EXCENTRICUM
1	DIA	COSCINODISCUS MARGINATUS

1966 =TOTAL ABUNDANCE DIVERSITY = 4.12133

WINTER TRANSECT III STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
760	DIA	THALASSIONEMA NITZSCHOIDES
420	DIA	PLEUROSIGMA SP. (SHORT)
400	DIA	NITZSCHIA DELICATISSIMA
260	DIA	NITZSCHIA LONGISSIMA
240	DIA	NAVICULA MEMBRANACEA
200	DIA	NITZSCHIA CLOSTERIUM
180	DIA	UNIDENTIFIED PENNATE
160	DIA	THALASSIOTHRIX FRAUNFELDII
160	DIA	NITZSCHIA PANDURIFORMIS
140	DIA	BACTERIASTRUM HYALINUM
140	DIA	RHIZOSOLENIA STOLTERFOTHII
120	DIA	SKELETONEMA COSTATUM
120	DIA	NAVICULA WARWRIKAE
120	DIA	CHAETOCEROS SPP.
100	DIA	CHAETOCEROS MESSANENSIS
100	DIA	NAVICULA DISTANS
80	DIA	CHAETOCEROS LORENZIANUS
80	DIA	NITZSCHIA SERIATA
80	DIA	SCHRODERELLA DELICATULA
80	DIA	RHIZOSOLENIA SETIGERA
60	DIN	PYROPHACUS HOROLOGIUM
60	DIA	PLEUROSIGMA MARINUM
60	DIA	THALASSIOSIRA DECIPIENS
40	DIA	CHAETOCEROS DECIPIENS
40	DIA	CHAETOCEROS LACINOSUS
40	DIA	CHAETOCEROS GLANDAZII
40	DIA	EUCAMPIA CORNUTA
40	DIA	PLEUROSIGMA ANGULATUM
40	DIN	PROROCENTRUM MICANS
40	DIA	NITZSCHIA SPP.
40	DIA	UNIDENTIFIED CENTRIC
40	DIN	UNIDENTIFIED DINOFLAGELLATES
20	DIA	PLEUROSIGMA STRIGOSUM
20	DIA	RHIZOSOLENIA ALATA V. ALATA
20	DIA	AMPHORA SPP.
20	DIA	PODOSIRA STELLIGER
20	DIN	PODOLAMPAS SPINIFERA
20	DIA	MEMIAULUS HAUCKII
20	DIA	CONSCINODISCUS RADIATUS
20	DIA	DIPLONEIS CRABRO
20	DIA	EUCAMPIA ZODIACUS
1	DIA	CORETHRON HYSTRIX
1	DIA	LEPTOCYLINDRUS DANICUS
1	DIA	DITYLUM BRIGHTWELLII
1	DIA	CHAETOCEROS COMPRESSUS
1	DIA	CYMATOSIRA BELGICA
1	DIA	NITZSCHIA SP. 1 (CURV-CHAIN)
1	DIA	BACTERIASTRUM ELONGATUM
1	DIN	PERIDINIUM SPP.
1	DIA	THALASSIOTHRIX MEDITERRANES

4689 =TOTAL ABUNDANCE DIVERSITY = 4.65824

WINTER TRANSECT III STATION 2 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
480	DIA	THALASSIONEMA NITZSCHOIDES
360	DIA	UNIDENTIFIED PENNATE
320	DIA	NITZSCHIA DELICATISSIMA
200	DIA	PLEUROSIGMA SP. 1 (SMALL)
200	DIA	BACTERIASTRUM ELONGATUM
180	DIA	NITZSCHIA LONGISSIMA
180	DIA	NITZSCHIA CLOSTERIUM
180	DIA	NAVICULA MEMBRANACEA
140	DIA	NITZSCHIA SP. 1 (CURV-CHAIN)
120	DIA	THALASSIOSIRA DECIPIENS
120	DIA	NAVICULA WARWRIKAE
100	DIA	EUCAMPIA CORNUTA
100	DIA	RHIZOSOLENIA SETIGERA
100	DIA	CHAETOCEROS DECIPIENS
80	DIA	NAVICULA DISTANS
80	DIA	HEMIAULUS SINENSIS
80	DIA	PLEUROSIGMA MARINUM
80	DIA	PLEUROSIGMA STRIGOSUM
80	DIA	THALASSIOTHRIX MEDITERRANES
80	DIA	NITZSCHIA SP. 2 (SMALL-CAPITATE)
80	DIA	DETONULA CONFERVACEA
60	DIA	NITZSCHIA PUNGENS
40	DIA	NITZSCHIA PANDURIFORMIS
40	DIA	CHAETOCEROS MESSANENSIS
40	DIA	BACTERIASTRUM HYALINUM
40	DIA	HEMIAULUS HAUCKII
40	DIA	GYROSIGMA SPP.
40	DIA	RHIZOSOLENIA STOLTERFOTHII
20	DIN	UNIDENTIFIED DINOFLAGELLATES
20	SIL	DICTYOCHA FIBULA
20	DIA	CHAETOCEROS PERUVIANUS
20	DIA	NAVICULA ELEGANS
20	DIA	CALONEIS WESTII
20	DIA	COSCINODISCUS SPP.
20	DIA	CHAETOCEROS SPP.
20	DIN	EXUVIELLA LIMA
20	DIA	CERATAULINA BERGONII
20	DIA	COSCINODISCUS EXCENTRICUS
20	DIA	CORETHRON HYSTRIX
20	DIA	UNIDENTIFIED CENTRIC
20	DIN	PODOLAMPAS BIPES
20	DIN	GYMNODINIUM SPP.
20	DIA	CONSCINODISCUS RADIATUS
20	DIN	PYROPHACUS HOROLOGIUM

3960 =TOTAL ABUNDANCE DIVERSITY = 4.81217

WINTER TRANSECT III STATION 3 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
480	DIA	BACTERIASTRUM ELONGATUM
300	DIA	NITZSCHIA SP. 1 (CURV-CHAIN)
280	DIA	NITZSCHIA DELICATISSIMA
280	DIA	THALASSIOTHRIX FRAUNFELDII
260	DIA	EUCAMPIA CORNUTA
240	DIA	CHAETOCEROS SPP.
240	DIA	SCHRODERELLA DELICATULA
240	DIA	NITZSCHIA CLOSTERIUM
180	DIA	THALASSIONEMA NITZSCHOIDES
180	DIA	UNIDENTIFIED CENTRIC
160	DIA	SKELETONEMA COSTATUM
140	DIA	NAVICULA MEMBRANACEA
140	DIA	UNIDENTIFIED PENNATE
140	DIA	CHAETOCEROS BREVIS
120	DIA	RHIZOSOLENIA STOLTERFOTHII
120	DIN	PROROCENTRUM SP. 1 (SMALL)
100	DIA	NITZSCHIA SP. 2 (SMALL-CAPITATE)
100	DIA	THALASSIOSIRA DECIPIENS
80	DIA	NITZSCHIA LONGISSIMA
80	DIA	LEPTOCYLINDRUS DANICUS
80	DIA	HEMIAULUS MEMBRANACEOUS
60	DIA	NAVICULA SPP.
60	DIA	RHIZOSOLENIA SETIGERA
60	DIA	THALASSIOSIRA SUBTILIS
60	DIA	DACTYLIOSOLEN MEDITERRANEUS
60	DIA	NITZSCHIA SERIATA
60	DIA	BACILLARIA PARADOXA
40	DIA	CHAETOCEROS MESSANENSIS
40	DIA	COSCINODISCUS SPP.
40	DIA	CHAETOCEROS DECIPIENS
40	DIA	NAVICULA WARMRIKAE
40	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
40	DIA	DITYLUM BRIGHTWELLII
40	DIA	HEMIAULUS HAUCKII
40	SIL	DISTEPHANUS SPECULUM
40	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)
40	DIA	NITZSCHIA PACIFICA
20	DIA	CHAETOCEROS PENDULUS
20	DIN	AMPHIDINIUM CRASSUM
20	DIA	CHAETOCEROS AFFINIS
20	DIA	MELOSIRA SULCATA
20	DIA	PLEUROSIGMA SPP.
20	DIN	PROROCENTRUM MICANS
20	DIA	ASTEROMPHALUS CLEAVEANUS
20	DIA	NITZSCHIA SPP.
20	DIA	AMPHORA SPP.
20	DIN	UNIDENTIFIED DINOFLAGELLATES
20	SIL	DICTYOCHA FIBULA
20	DIN	GYMNODINIUM SPP.
20	DIA	GUINARDIA FLACCIDA

4960 =TOTAL ABUNDANCE DIVERSITY = 5.06260

WINTER TRANSECT III STATION 3 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
1100	DIA	CHAETOCEROS COMPRESSUS
420	DIA	THALASSIONEMA NITZSCHOIDES
280	DIA	NITZSCHIA DELICATISSIMA
280	DIA	CHAETOCEROS SPP.
220	DIA	CHAETOCEROS DECIPIENS
220	DIA	NITZSCHIA SP. 1 (CURV-CHAIN)
200	DIA	CHAETOCEROS SOCIALIS
180	DIA	NITZSCHIA PUNGENS
160	DIA	THALASSIOSIRA DECIPIENS
160	DIA	NITZSCHIA SERIATA
160	DIA	NITZSCHIA LONGISSIMA
160	DIA	NITZSCHIA CLOSTERIUM
140	DIA	EUCAMPIA CORNUTA
140	DIA	SKELETONEMA COSTATUM
140	DIA	CHAETOCEROS LACINOSUS
140	DIA	RHIZOSOLENIA STOLTERFOTHII
120	DIA	THALASSIOTHRIX FRAUNFELDII
120	DIA	DACTYLIOSOLEN MEDITERRANEUS
120	DIA	NAVICULA MEMBRANACEA
100	DIA	LEPTOCYLINDRUS MINIMUS
100	DIA	UNIDENTIFIED CENTRIC
100	DIN	PROROCENTRUM SP. 1 (SMALL)
80	DIA	UNIDENTIFIED PENNATE
80	DIA	BACTERIASTRUM ELONGATUM
60	DIA	CHAETOCEROS CURVISETUS
60	DIA	NAVICULA WARMRIKAE
40	DIA	THALASSIOSIRA SUBTILIS
40	DIN	GYMNODINIUM SPP.
40	DIA	HEMIAULUS SINENSIS
40	DIA	PLEUROSIGMA SPP.
20	DIA	CERATAULINA BERGONII
20	DIA	PODOSIRA STELLIGER
20	DIA	RHIZOSOLENIA ALATA V. ALATA
20	DIN	PYROPHACUS HOROLOGIUM
20	DIA	COSCINODISCUS SPP.
20	DIA	NAVICULA SPP.
20	DIN	UNIDENTIFIED DINOFLAGELLATES
20	DIA	STEPHANOPYXIS TURRIS

5360 =TOTAL ABUNDANCE DIVERSITY = 4.55067

WINTER TRANSECT IV STATION 1 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
420	DIN	PROROCENTRUM COMPRESSUM
300	DIA	NITZSCHIA PUNGENS
160	DIN	EXUVIELLA SPP.
100	DIA	UNIDENTIFIED PENNATE
100	DIA	SKELETONEMA COSTATUM
80	DIN	UNIDENTIFIED DINOFLAGELLATES
80	DIN	PROROCENTRUM MICANS
60	DIA	STEPHANOPYXIS TURRIS
60	DIA	PLEUROSIGMA SPP.
60	DIA	THALASSIOSIRA DECIPIENS
40	DIA	COSCINOSIRA OESTRUPII
40	DIN	CERATIUM HIRCUS
40	DIN	PERIDINIUM SPP.
20	DIN	GONYODOMA SPP.
20	DIN	PYROPHACUS HOROLOGIUM
20	DIA	NITZSCHIA PANDURIFORMIS
20	DIA	RHIZOSOLENIA IMBRICATA
20	DIN	PERIDINIUM SPINIFERUM
20	DIN	GYMNODINIUM SPP.
20	DIN	GONYAULAX SPP.
20	DIN	DINOPHYSIS ACUTA
20	DIA	CHAETOCEROS SIMPLEX V. CALCITRANS
20	DIA	UNIDENTIFIED CENTRIC
20	DIA	NAVICULA DISTANS
20	DIA	THALASSIOSIRA SUBTILIS
20	DIA	DITYLUM BRIGHTWELLII
20	DIA	CHAETOCEROS SPP.

1820 =TOTAL ABUNDANCE DIVERSITY = 3.93930

WINTER TRANSECT IV STATION 1 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
760	DIA	NITZSCHIA PUNGENS
280	DIN	PROROCENTRUM COMPRESSUM
100	DIN	GONYAULAX POLYGRAMMA
80	DIN	UNIDENTIFIED DINOFLAGELLATES
60	DIA	UNIDENTIFIED PENNATE
60	DIA	THALASSIOSIRA DECIPIENS
60	DIN	EXUVIELLA LIMA
60	DIN	PROROCENTRUM MICANS
60	DIA	NITZSCHIA PACIFICA
40	DIA	NITZSCHIA CLOSTERIUM
40	DIA	THALASSIONEMA NITZSCHOIDES
40	DIA	DITYLUM BRIGHTWELLII
40	DIA	COSCINODISCUS SPP.
40	DIN	PYROPHACUS HOROLOGIUM
40	DIN	DINOPHYSIS CAUDATA V. ACUTIFORMIS
20	DIA	BIDDULPHIA CHINENSIS
20	DIA	PLEUROSIGMA SP. 1 (SMALL)
20	DIA	PLEUROSIGMA ANGULATUM
20	DIA	NITZSCHIA DELICATISSIMA
20	DIN	GYMNODINIUM SPP.
20	DIN	CERATIUM HIRCUS
20	DIA	NITZSCHIA PANDURIFORMIS
20	DIA	UNIDENTIFIED CENTRIC
20	DIN	PERIDINIUM SPP.
20	SIL	DICTYOCHA FIBULA
20	DIN	CERATIUM FURCA
20	DIA	CHAETOCEROS DECIPIENS
20	DIA	THALASSIOSIRA ROTULA
1	DIN	GONYAULAX SPP.
1	DIA	RHIZOSOLENIA ROBUSTA
1	DIA	LEPTOCYLINDRUS DANICUS
1	DIA	NAVICULA SPP.
1	DIN	CERATIUM TRIPOS
1	DIA	COSCINODISCUS MARGINATUS
1	DIA	COSCINOSIRA OESTRUPII

2027 =TOTAL ABUNDANCE DIVERSITY = 3.64412

WINTER TRANSECT IV STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
280	DIN	PROROCENTRUM COMPRESSUM
220	DIA	THALASSIOSIRA DECIPIENS
220	DIA	NITZSCHIA PUNGENS
160	DIN	UNIDENTIFIED DINOFLAGELLATES
120	DIA	NITZSCHIA PACIFICA
80	DIA	NAVICULA SPP.
80	DIA	COSCINOSIRA OESTRUPII
60	DIN	GONYAULAX POLYGRAMMA
60	DIA	UNIDENTIFIED PENNATE
60	DIA	UNIDENTIFIED CENTRIC
60	DIA	COSCINODISCUS MARGINATUS
60	DIA	NITZSCHIA SERIATA
60	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
60	DIN	GYMNODINIUM SPP.
40	DIA	NITZSCHIA PANDURIFORMIS
40	DIA	PLEUROSIGMA SP. 1 (SMALL)
40	DIA	THALASSIONEMA NITZSCHOIDES
40	DIN	PROROCENTRUM MICANS
40	DIN	GONYAULAX SPP.
40	DIA	DITYLUM BRIGHTWELLII
40	DIA	THALASSIOSIRA ROTULA
40	DIN	PERIDINIUM SPP.
20	DIA	COSCINODISCUS SPP.
20	DIA	CHAETOCEROS DECIPIENS
20	DIA	COSCINODISCUS EXCENTRICUS
20	DIA	STEPHANOPYXIS TURRIS
20	DIA	RHIZOSOLENIA ROBUSTA
20	DIA	BACTERIASTRUM HYALINUM
20	DIA	PLEUROSIGMA ANGULATUM
20	DIN	CERATIUM HIRCUS
20	DIN	CERATIUM KOFOIDII
20	DIN	CERATIUM FURCA
20	SIL	DICTYOCHA FIBULA
20	DIA	ASTEROMPHALUS CLEAVEANUS
20	DIA	CHAETOCEROS SPP.
1	DIN	PERIDINIUM SPINIFERUM
1	DIA	NITZSCHIA CLOSTERIUM
1	DIN	PERIDINIUM CERASUS
1	DIA	PLEUROSIGMA MARINUM

2164 =TOTAL ABUNDANCE DIVERSITY = 4.60862

WINTER TRANSECT IV STATION 2 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
320	DIA	NITZSCHIA PACIFICA
160	DIA	UNIDENTIFIED PENNATE
140	DIA	THALASSIONEMA NITZSCHOIDES
140	DIA	THALASSIOSIRA DECIPIENS
140	DIN	UNIDENTIFIED DINOFLAGELLATES
100	DIA	CHAETOCEROS SPP.
100	DIA	CHAETOCEROS DECIPIENS
80	DIA	NITZSCHIA PANDURIFORMIS
80	SIL	DICTYOCHA FIBULA
60	DIA	UNIDENTIFIED CENTRIC
60	DIA	NITZSCHIA CLOSTERIUM
60	DIA	PLEUROSIGMA SP. 1 (SMALL)
60	DIA	NITZSCHIA PUNCTATA
60	DIA	COSCINODISCUS MARGINATUS
60	DIA	NAVICULA SPP.
60	DIA	DITYLUM BRIGHTWELLII
60	DIA	THALASSIOSIRA ROTULA
60	DIA	NITZSCHIA SP. 2 (SMALL-CAPITATE)
40	DIA	BACTERIASTRUM HYALINUM
40	DIA	COSCINODISCUS EXCENTRICUS
40	DIN	PROROCENTRUM COMPRESSUM
20	DIA	CHAETOCEROS CURVISETUS
20	DIA	CHAETOCEROS LORENZIANUS
20	DIN	PERIDINIUM STEINII
20	DIA	COSCINODISCUS SPP.
20	DIN	CERATIUM HIRCUS
20	DIA	DIPLONEIS SPP.
20	DIN	GONYAULAX POLYGRAMMA
20	DIN	PYROPHACUS HOROLOGIUM
20	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
1	DIA	LAUDERIA BOREALIS
1	DIA	HEMIDISCUS HARDMANIANUS
1	DIA	FRAGILARIA SPP.
1	DIN	CERATIUM KOFOIDII
1	DIN	CERATIUM FUSUS

2105 =TOTAL ABUNDANCE DIVERSITY = 4.50292

WINTER TRANSECT IV STATION 3 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
1720	DIA	NITZSCHIA DELICATISSIMA
1040	DIA	CHAETOCEROS COMPRESSUS
1000	DIA	NITZSCHIA SP. 1 (CURV-CHAIN)
600	DIA	THALASSIONEMA NITZSCHOIDES
500	DIA	HEMIAULUS HAUCKII
240	DIA	NITZSCHIA CLOSTERIUM
220	DIA	RHIZOSOLENIA SETIGERA
220	DIA	LEPTOCYLINDRUS DANICUS
220	DIA	NITZSCHIA PACIFICA
200	DIA	RHIZOSOLENIA STOLTERFOTHII
180	DIA	CHAETOCEROS SPP.
180	DIA	CHAETOCEROS DECIPIENS
160	DIA	UNIDENTIFIED CENTRIC
160	DIA	NITZSCHIA SERIATA
160	DIA	EUCAMPIA CORNUTA
140	DIA	UNIDENTIFIED PENNATE
140	DIA	NITZSCHIA LONGISSIMA
140	DIA	NITZSCHIA SP. 2 (SMALL-CAPITATE)
120	DIA	CHAETOCEROS SOCIALIS
120	DIA	THALASSIOTHRIX FRAUNFELDII
120	DIA	BACTERIASTRUM ELONGATUM
120	DIA	CORETHRON HYSTRIX
100	DIA	NAVICULA MEMBRANACEA
100	DIA	SKELETONEMA COSTATUM
100	DIA	THALASSIOSIRA DECIPIENS
80	DIA	BACTERIASTRUM MEDITERRANEUM
80	DIA	HEMIAULUS MEMBRANACEOUS
60	DIA	LEPTOCYLINDRUS MINIMUS
60	DIA	CHAETOCEROS AFFINIS
60	DIA	CHAETOCEROS CURVISETUS
60	DIA	PLEUROSIGMA STRIGOSUM
60	DIA	CERATAULINA COMPACTA
60	DIA	CHAETOCEROS LORENZIANUS
60	DIA	BACTERIASTRUM COMOSUM
40	DIA	COSCINODISCUS MARGINATUS
40	DIA	PLEUROSIGMA MARINUM
20	DIA	COSCINODISCUS THORII
20	DIA	GUINARDIA FLACCIDA
20	DIN	PERIDINIUM TUBA
20	SIL	DISTEPHANUS SPECULUM
20	DIN	DINOPHYSIS SP. (ARCTICUM)
20	DIA	NAVICULA WARWRIKAE
20	DIN	UNIDENTIFIED DINOFLAGELLATES
20	DIA	PLEUROSIGMA SP. 1 (SMALL)
20	SIL	DICTYOCHA FIBULA
20	DIA	THALASSIOTHRIX MEDITERRANES
1	DIN	CERATIUM FURCA
1	DIA	HEMIAULUS SINENSIS
1	DIA	SCHRODERELLA DELICATULA
1	DIA	AMPHIPRORA SPP.
1	DIA	DITYLUM BRIGHTWELLII
1	DIA	RHIZOSOLENIA HEBETATA V. HIEMALIS
1	DIA	DITYLUM SOL
1	DIA	CORETHRON PELAGICUS
1	DIN	CERATIUM MACROCEROS V. GALLICUM
1	DIA	PODOSIRA STELLIGER

8870 =TOTAL ABUNDANCE DIVERSITY = 4.46877

WINTER TRANSECT IV STATION 3 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
2940	DIA	NITZSCHIA DELICATISSIMA
1680	DIA	NITZSCHIA SP. 1 (CURV-CHAIN)
1460	DIA	CHAETOCEROS COMPRESSUS
900	DIA	SKELETONEMA COSTATUM
560	DIA	NITZSCHIA CLOSTERIUM
520	DIA	THALASSIONEMA NITZSCHOIDES
400	DIA	BACTERIASTRUM ELONGATUM
360	DIA	CHAETOCEROS SPP.
360	DIA	RHIZOSOLENIA SETIGERA
360	DIA	RHIZOSOLENIA STOLTERFOTHII
280	DIA	UNIDENTIFIED PENNATE
260	DIA	THALASSIOTHRIX FRAUNFELDII
220	DIA	EUCAMPIA CORNUTA
220	DIA	CHAETOCEROS LACINOSUS
220	DIA	NAVICULA MEMBRANACEA
200	DIA	NITZSCHIA LONGISSIMA
200	DIA	UNIDENTIFIED CENTRIC
200	DIN	GYMNODINIUM SPP.
200	DIA	NITZSCHIA SPP.
200	DIA	LEPTOCYLINDRUS MINIMUS
140	DIA	THALASSIOSIRA DECIPIENS
100	DIA	NITZSCHIA PUNGENS
100	DIA	CORETHRON HYSTRIX
80	DIA	COSCINODISCUS MARGINATUS
80	DIA	NITZSCHIA SP. 2 (SMALL-CAPITATE)
80	DIA	CHAETOCEROS CURVISETUS
60	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
60	DIA	CHAETOCEROS GLANDAZII
60	DIA	NAVICULA WARWRIKAE
60	DIA	CHAETOCEROS DECIPIENS
60	DIA	NAVICULA SPP.
60	DIA	HEMIAULUS HAUCKII
60	DIA	CHAETOCEROS BREVIS
60	DIA	NITZSCHIA PACIFICA
60	DIA	THALASSIOTHRIX LONGISSIMA
60	DIA	THALASSIOSIRA SUBTILIS
40	DIA	CHAETOCEROS LORENZIANUS
20	DIA	DITYLUM BRIGHTWELLII
20	DIA	BACTERIASTRUM HYALINUM
20	DIA	LEPTOCYLINDRUS DANICUS
20	DIA	DACTYLIOSOLEN MEDITERRANEUS
20	DIA	CHAETOCEROS SIMPLEX V. CALCITRANS
20	DIA	HEMIAULUS MEMBRANACEOUS
20	DIA	PODOSIRA STELLIGER
20	DIA	RHIZOSOLENIA HEBETATA V. HIEMALIS
20	DIA	ASTEROMPHALUS ROBUSTUS
20	DIA	GUINARDIA FLACCIDA
20	DIA	PLEUROSIGMA STRIGOSUM
20	DIA	DACTYLIOSOLEN ANTARCTICUS
20	SIL	DISTEPHANUS SPECULUM
20	DIA	CERATAULINA BERGONII
1	DIA	PLEUROSIGMA SPP.
1	DIA	SCHRODERELLA DELICATULA
1	DIA	RHIZOSOLENIA CALCAR AVIS
1	DIA	CHAETOCEROS MESSANENSIS

13244 =TOTAL ABUNDANCE DIVERSITY = 4.30433

MARCH TRANSECT II STATION 1 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
84800	DIA	LEPTOCYLINDRUS MINIMUS
52200	DIA	THALASSIOSIRA ROTULA
49400	DIA	NITZSCHIA DELICATISSIMA
34800	DIA	SKELETONEMA COSTATUM
30000	DIA	THALASSIOSIRA DECIPIENS
17400	DIA	NITZSCHIA PUNGENS
15000	DIA	COSCINOSIRA POLYCHORDA
9000	DIA	THALASSIONEMA NITZSCHOIDES
8800	DIA	CYCLOTELLA SPP. (CHAIN)
7000	DIA	CHAETOCEROS SPP.
6600	DIA	THALASSIOSIRA AESTIVALIS
5200	DIA	DITYLUM BRIGHTWELLII
5000	DIA	NITZSCHIA SERIATA
4600	DIA	UNIDENTIFIED CENTRIC
3600	DIA	RHIZOSOLENIA DELICATULA
3400	DIA	CONSCINODISCUS RADIATUS
2400	DIA	NAVICULA DISTANS
2000	DIN	GONYAULAX SPP.
1600	DIA	EUCAMPIA CORNUTA
1400	DIA	UNIDENTIFIED PENNATE
1400	DIN	PROROCENTRUM MICANS
1200	DIA	CHAETOCEROS FURCELLATUS
1200	DIA	CHAETOCEROS DIVERSUS (NEW)
1200	DIA	NAVICULA SPP.
1000	DIN	AMPHISOLENIA BIDENTATA
800	DIA	CHAETOCEROS PSEUDOCURVISETUS
800	DIA	LITHODESMIUM UNDULATUM
800	DIA	NAVICULA MEMBRANACEA
800	DIA	RHIZOSOLENIA FRAGILLISSIMA
800	DIA	CERATAULINA BERGONII
800	DIN	UNIDENTIFIED DINOFLAGELLATES
600	DIA	THALASSIOTHRIX MEDITERRANES
600	DIA	DIPLONEIS SPP.
600	DIA	COSCINODISCUS SPP.
600	DIN	PYROPHACUS HOROLOGIUM
400	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
400	DIA	STEPHANOPYXIS TURRIS
400	DIA	PLEUROSIGMA SP. 1 (SMALL)
400	DIN	PROROCENTRUM COMPRESSUM
400	DIN	DINOPHYSIS CAUDATA V. PEDUNCULATA

MARCH TRANSECT II STATION 1 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
506200	DIA	SKELETONEMA COSTATUM
120000	DIA	LEPTOCYLINDRUS MINIMUS
65000	DIA	THALASSIOSIRA ROTULA
63400	DIA	NITZSCHIA DELICATISSIMA
39400	DIA	THALASSIOSIRA DECIPIENS
35600	DIA	NITZSCHIA SERIATA
13800	DIA	NITZSCHIA PUNGENS
12200	DIA	CHAETOCEROS SPP.
9400	DIA	COSCINOSIRA OESTRUPII
7200	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)
7000	DIA	THALASSIOTHRIX MEDITERRANES
5000	DIA	CHAETOCEROS DIVERSUS (NEW)
4800	DIA	DITYLUM BRIGHTWELLII
4400	DIA	RHIZOSOLENIA FRAGILLISSIMA
4200	DIA	UNIDENTIFIED CENTRIC
3400	DIA	CHAETOCEROS ATLANTICUS V. NEOPOLITANA
3000	DIA	CERATAULINA BERGONII
2800	DIA	RHIZOSOLENIA STOLTERFOTHII
2600	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
2600	DIA	RHIZOSOLENIA DELICATULA
2200	DIA	NAVICULA MEMBRANACEA
2000	DIA	CHAETOCEROS COMPRESSUS
2000	DIA	CHAETOCEROS PELAGICUS
1400	DIA	UNIDENTIFIED PENNATE
1400	DIA	CHAETOCEROS DIDYMUS V. ANGLICA
1000	DIN	GYMNODINIUM SPP.
1000	DIN	UNIDENTIFIED DINOFLAGELLATES
1000	DIN	GONYAULAX SPP.
1000	DIN	PROROCENTRUM MICANS
1000	DIA	SCHRODERELLA DELICATULA
1000	DIA	NAVICULA DISTANS
800	DIA	CONSCINODISCUS RADIATUS
800	DIA	CHAETOCEROS LORENZIANUS
800	DIA	EUCAMPIA CORNUTA
800	DIA	GUINARDIA FLACCIDA
600	DIA	LEPTOCYLINDRUS DANICUS
600	DIA	CHAETOCEROS SOCIALIS
600	DIA	CHAETOCEROS PSEUDOCURVISETUS
600	DIA	BIDDULPHIA MOBILIENSIS
600	DIA	NITZSCHIA LONGISSIMA

200	DIA	DACTYLIOSOLEN ANTARCTICUS
200	DIA	GUINARDIA FLACCIDA
200	DIA	COSCINODISCUS MARGINATUS
200	DIA	BIDDULPHIA REGIA
200	DIA	NITZSCHIA PANDURIFORMIS
200	DIA	NITZSCHIA LONGISSIMA
200	DIA	PLEUROSIGMA ANGULATUM
200	DIA	PLEUROSIGMA STRIGOSUM
200	DIA	RHIZOSOLENIA CALCAR AVIS
200	DIA	RHIZOSOLENIA ROBUSTA
200	DIN	PERIDINIUM TUBA
200	DIA	EUCAMPIA ZODIACUS
200	DIN	PERIDINIUM CRASSIPES
1	DIA	BIDDULPHIA SINENSIS
1	DIA	RHIZOSOLENIA STOLTERFOTHII
1	DIA	NITZSCHIA CLOSTERIUM

362003 =TOTAL ABUNDANCE DIVERSITY = 3.77778

600	DIA	NITZSCHIA CLOSTERIUM
600	DIN	PROROCENTRUM COMPRESSUM
400	DIA	CHAETOCEROS DECIPIENS
400	DIA	NAVICULA ELEGANS
400	DIA	PLEUROSIGMA STRIGOSUM
200	DIA	COSCINODISCUS MARGINATUS
200	DIA	COSCINODISCUS SPP.
200	DIA	LAUDERIA BOREALIS
200	DIA	BIDDULPHIA SINENSIS
200	DIA	CHAETOCEROS AFFINIS
200	DIA	RHIZOSOLENIA CALCAR AVIS
200	DIA	THALASSIOSIRA AESTIVALIS
200	DIA	RHIZOSOLENIA ROBUSTA
200	DIA	PLEUROSIGMA MARINUM
200	DIN	PERIDINIUM SPP.
200	DIN	CERATIUM TRICHOCEROS
1	DIN	PROROCENTRUM SP. 1 (SMALL)
1	DIA	COSCINODISCUS LINEATUS
1	DIA	CYCLOTELLA SPP.
1	DIA	HEMIAULUS HAUCKII
1	DIA	LITHODESMIUM UNDULATUM
1	DIA	ACTINOPTYCHUS SENARIUS
1	DIA	AMPHIPRORA SPP.
1	DIA	CHAETOCEROS BREVIS
1	DIA	MELOSIRA DISTANS
1	DIA	STEPHANOPYXIS TURRIS
1	DIA	THALASSIONEMA NITZSCHOIDES
1	DIN	DINOPHYSIS CAUDATA V. PEDUNCULATA

938012 =TOTAL ABUNDANCE DIVERSITY = 2.66333

MARCH TRANSECT II STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
4920	DIA	NITZSCHIA DELICATISSIMA
3700	DIA	SKELETONEMA COSTATUM
1800	DIA	NITZSCHIA CLOSTERIUM
1680	DIA	CHAETOCEROS SPP.
1280	DIA	CHAETOCEROS SOCIALIS
680	DIA	CHAETOCEROS COMPRESSUS
540	DIA	CHAETOCEROS DECIPIENS
520	DIA	CHAETOCEROS MESSANENSIS
500	DIA	NITZSCHIA SP. 1 (CURV-CHAIN)
440	DIA	UNIDENTIFIED PENNATE
420	DIA	CHAETOCEROS CURVISETUS
400	DIA	RHIZOSOLENIA STOLTERFOTHII
380	DIA	LEPTOCYLINDRUS DANICUS
360	DIA	CHAETOCEROS GLANDAZII
360	DIA	CERATAULINA BERGONII
340	DIA	NITZSCHIA PACIFICA
340	DIA	HEMIAULUS MEMBRANACEOUS
280	DIA	THALASSIONEMA NITZSCHOIDES
240	DIA	CHAETOCEROS PELAGICUS
200	DIN	UNIDENTIFIED DINOFLAGELLATES
200	DIA	THALASSIOSIRA DECIPIENS
180	DIA	CHAETOCEROS DIVERSUS (NEW)
160	DIA	DACTYLIOSOLEN MEDITERRANEUS
160	DIA	UNIDENTIFIED CENTRIC
160	DIA	THALASSIOSIRA ROTULA
140	DIA	DACTYLIOSOLEN ANTARCTICUS
120	DIA	CORETHRON HYSTRIX
120	DIA	BACTERIASTRUM HYALINUM
100	DIA	CHAETOCEROS DECIPIENS V. SINGULARIS
100	DIA	CHAETOCEROS TETRASTICHON
100	DIA	RHIZOSOLENIA ALATA V. INERMIS
80	DIA	NITZSCHIA PUNGENS
80	DIA	NITZSCHIA SPP.
80	DIA	DITYLUM BRIGHTWELLII
60	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
60	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
60	DIA	THALASSIOSIRA AESTIVALIS
60	DIA	RHIZOSOLENIA SETIGERA
60	DIA	PODOSIRA STELLIGER
60	DIA	NITZSCHIA LONGISSIMA
60	DIA	CHAETOCEROS BREVIS
60	DIN	PYROPHACUS HOROLOGIUM
40	DIN	PROROCENTRUM COMPRESSUM
40	DIA	CHAETOCEROS LORENZIANUS
40	DIA	RHIZOSOLENIA ALATA V. INDICA
40	DIA	NAVICULA DISTANS
40	DIA	PLEUROSIGMA SP. 1 (SMALL)
40	DIA	PLEUROSIGMA STRIGOSUM
40	DIA	THALASSIOTHRIX LONGISSIMA
40	DIA	EUCAMPIA ZODIACUS
40	DIA	THALASSIOTHRIX MEDITERRANES
20	DIN	GYMNODINIUM SPP.
20	DIN	GONYAULAX POLYGRAMMA
20	DIA	COSCINODISCUS CONCINNUS
20	DIA	GUINARDIA FLACCIDA
20	DIA	LAUDERIA BOREALIS
20	DIA	AMPHIPRORA SPP.

MARCH TRANSECT II STATION 2 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
5300	DIA	NITZSCHIA DELICATISSIMA
800	DIN	DINOPHYSIS CAUDATA V. PEDUNCULATA
780	DIA	SKELETONEMA COSTATUM
760	DIA	NITZSCHIA CLOSTERIUM
720	DIA	CHAETOCEROS DECIPIENS
560	DIA	CHAETOCEROS SPP.
560	DIA	BACTERIASTRUM HYALINUM
540	DIA	NITZSCHIA PUNGENS
420	DIA	NITZSCHIA SERIATA
420	DIA	UNIDENTIFIED PENNATE
360	DIA	RHIZOSOLENIA STOLTERFOTHII
320	DIA	THALASSIOSIRA DECIPIENS
300	DIA	CHAETOCEROS CURVISETUS
300	DIA	CHAETOCEROS GLANDAZII
300	DIA	LEPTOCYLINDRUS DANICUS
280	DIA	RHIZOSOLENIA DELICATULA
220	DIA	CHAETOCEROS COMPRESSUS
180	DIA	HEMIAULUS SINENSIS
180	DIA	THALASSIONEMA NITZSCHOIDES
180	DIA	UNIDENTIFIED CENTRIC
180	DIA	NITZSCHIA PACIFICA
140	DIA	RHIZOSOLENIA IMBRICATA V. SHRUBSOLEI
140	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
140	DIA	CHAETOCEROS PELAGICUS
140	DIN	UNIDENTIFIED DINOFLAGELLATES
120	DIA	NITZSCHIA SP. 1 (CURV-CHAIN)
120	DIA	NITZSCHIA SPP.
100	DIA	CHAETOCEROS ATLANTICUS V. NEOPOLITANA
100	DIA	RHIZOSOLENIA STYLIFORMIS V. LATISSIMA
100	DIA	THALASSIOTHRIX LONGISSIMA
100	DIA	PLEUROSIGMA SP. 1 (SMALL)
100	DIA	CHAETOCEROS PSEUDOCURVISETUS
80	DIA	CHAETOCEROS DIVERSUS (NEW)
80	DIA	BACTERIASTRUM ELONGATUM
80	DIA	RHIZOSOLENIA SETIGERA
80	DIA	SCHRODERELLA DELICATULA
80	DIA	THALASSIOSIRA ROTULA
60	DIA	CHAETOCEROS AFFINIS V. WILLIEI
60	DIA	CYMATOSIRA BELGICA
60	DIA	CHAETOCEROS BREVIS
60	DIA	COSCINODISCUS SPP.
40	DIA	NAVICULA SPP.
40	DIA	DACTYLIOSOLEN ANTARCTICUS
40	DIA	CHAETOCEROS LORENZIANUS
40	DIA	RHIZOSOLENIA CALCAR AVIS
40	DIA	NITZSCHIA PANDURIFORMIS
40	DIA	PLEUROSIGMA MARINUM
40	DIA	CORETHRON PELAGICUS
40	DIN	PROROCENTRUM SP. 1 (SMALL)
40	DIN	OXYTOXUM SCOLOPAX
20	DIN	EXUVIELLA LIMA
20	DIA	CONSCINODISCUS RADIATUS
20	DIA	EUCAMPIA CORNUTA
20	DIA	COSCINODISCUS CURVATULUS
20	DIA	GUINARDIA FLACCIDA
20	DIA	DIPLONEIS SPP.
20	DIA	CERATAULINA BERGONII

20	DIA	NITZSCHIA PANDURIFORMIS
20	DIA	PLEUROSIGMA SPP.
20	DIA	RHIZOSOLENIA CASTRACANEI
20	DIN	PERIDINIUM INFLATUM
1	DIA	CHAETOCEROS PERUVIANUS
1	DIA	DIPLONEIS SPP.
1	DIA	EUCAMPIA CORNUTA
1	DIA	HEMIAULUS SINENSIS
1	DIA	LEPTOCYLINDRUS MINIMUS
1	DIA	CHAETOCEROS AFFINIS
1	DIA	CHAETOCEROS COARCTICUS
1	DIA	CHAETOCEROS LACINOSUS
1	DIA	RHIZOSOLENIA HEBETATA V. HIEMALIS
1	DIA	RHIZOSOLENIA IMBRICATA V. SHRUBSOLEI
1	DIA	NAVICULA MEMBRANACEA
1	DIA	THALASSIOSIRA GRAVIDA

22212 =TOTAL ABUNDANCE DIVERSITY = 4.30318

20	DIA	NAVICULA DISTANS
20	DIN	GONYAULAX POLYGRAMMA
20	DIN	PYROPHACUS HOROLOGIUM
20	DIN	PROROCENTRUM COMPRESSUM
20	DIN	GYMNODINIUM SPP.
1	DIN	PYROCYSTIS NOCTILUCA
1	DIA	CORETHRON HYSTRIX
1	DIA	HEMIAULUS ZODIACUS
1	DIA	LITHODESMIUM UNDULATUM
1	DIA	PLEUROSIGMA ANGULATUM

16205 =TOTAL ABUNDANCE DIVERSITY = 4.38249

MARCH TRANSECT II STATION 3 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
3520	DIA	NITZSCHIA CLOSTERIUM
1040	DIA	NITZSCHIA DELICATISSIMA
400	DIA	CHAETOCEROS DECIPIENS
360	DIA	UNIDENTIFIED PENNATE
260	DIA	CHAETOCEROS SPP.
160	DIA	CHAETOCEROS GLANDAZII
140	DIA	LEPTOCYLINDRUS DANICUS
140	DIA	BACTERIASTRUM HYALINUM
120	DIA	HEMIAULUS HAUCKII
100	DIA	CHAETOCEROS MESSANENSIS
100	DIA	NITZSCHIA SPP.
100	DIA	UNIDENTIFIED CENTRIC
100	DIA	HEMIAULUS MEMBRANACEOUS
80	DIA	NITZSCHIA LONGISSIMA
80	DIA	CHAETOCEROS PELAGICUS
80	DIN	UNIDENTIFIED DINOFLAGELLATES
60	DIA	THALASSIOSIRA DECIPIENS
60	DIN	PROROCENTRUM SP. 1 (SMALL)
60	DIA	NITZSCHIA SERIATA
40	DIA	THALASSIONEMA NITZSCHOIDES
40	DIA	SKELETONEMA COSTATUM
40	DIA	RHIZOSOLENIA ALATA V. INDICA
40	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
40	DIA	CERATAULINA BERGONII
40	DIN	CERATIUM KOFOIDII
20	DIA	RHIZOSOLENIA CASTRACANEI
20	DIA	NITZSCHIA PUNGENS
20	DIA	THALASSIOSIRA ROTULA
20	DIA	RHIZOSOLENIA DELICATULA
20	SIL	DISTEPHANUS SPECULUM
20	DIA	RHIZOSOLENIA SETIGERA
20	DIA	CYMATOSIRA BELGICA
20	DIA	EUCAMPIA CORNUTA
20	DIN	EXUVIELLA LIMA
20	DIN	PROROCENTRUM COMPRESSUM
1	DIA	CORETHRON HYSTRIX
1	DIA	CHAETOCEROS BREVIS

7402 =TOTAL ABUNDANCE DIVERSITY = 3.14933

MARCH TRANSECT II STATION 3 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
3480	DIA	NITZSCHIA CLOSTERIUM
1280	DIA	NITZSCHIA DELICATISSIMA
420	DIA	UNIDENTIFIED PENNATE
260	DIN	UNIDENTIFIED DINOFLAGELLATES
180	DIA	NITZSCHIA LONGISSIMA
140	DIA	CHAETOCEROS DECIPIENS
120	DIA	RHIZOSOLENIA ALATA V. INDICA
100	DIN	AMPHIDINIUM ACUTISSIMUM
100	DIN	GONYAULAX SPP.
100	DIA	NITZSCHIA SPP.
100	DIA	BACTERIASTRUM HYALINUM
100	DIA	CHAETOCEROS MESSANENSIS
100	DIA	CHAETOCEROS ATLANTICUS V. NEOPOLITANA
80	DIA	CHAETOCEROS PELAGICUS
80	DIA	NITZSCHIA SERIATA
80	DIA	UNIDENTIFIED CENTRIC
60	DIA	CHAETOCEROS SPP.
60	DIA	CHAETOCEROS AFFINIS
40	DIA	CHAETOCEROS PERUVIANUS
40	DIA	CHAETOCEROS DECIPIENS V. SINGULARIS
40	DIA	RHIZOSOLENIA SETIGERA
40	DIA	SKELETONEMA COSTATUM
40	DIA	NAVICULA MEMBRANACEA
40	DIN	PERIDINIUM PYRIFORMIS
20	DIN	PYROPHACUS HOROLOGIUM
20	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
20	DIN	OXYTOXUM SPHAEROIDEUM
20	SIL	DISTEPHANUS SPECULUM
20	DIA	RHIZOSOLENIA CASTRACANEI
20	DIA	DACTYLIOSOLEN ANTARCTICUS
20	DIA	HEMIAULUS MEMBRANACEOUS
20	DIA	RHIZOSOLENIA DELICATULA
20	DIA	CYMATUSIRA BELGICA
20	DIN	GYMNODINIUM SPP.
20	DIN	OXYTOXUM RETICULATUM
1	DIA	LAUDERIA BOREALIS
1	DIA	SCHRODERELLA DELICATULA
1	DIA	RHIZOSOLENIA ROBUSTA
1	DIA	HEMIAULUS SINENSIS

7304 =TOTAL ABUNDANCE DIVERSITY = 3.04823

APRIL TRANSECT II STATION 1 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
339600	DIA	NITZSCHIA DELICATISSIMA
264600	DIA	LEPTOCYLINDRUS MINIMUS
97400	DIA	NITZSCHIA SERIATA
80600	DIA	SKELETONEMA COSTATUM
53200	DIA	DITYLUM BRIGHTWELLII
27800	DIA	CHAETOCEROS MITRA
19400	DIA	CHAETOCEROS SPP.
18600	DIA	RHIZOSOLENIA STOLTERFOTHII
17600	DIA	CERATAULINA BERGONII
15000	DIA	CHAETOCEROS PSEUDOCURVISETUS
11400	DIA	CHAETOCEROS COMPRESSUS
10400	DIA	THALASSIOTHRIX MEDITERRANES
9400	DIA	NITZSCHIA PUNGENS
8400	DIA	EUCAMPIA ZOO CUS
8000	DIA	CHAETOCEROS PELAGICUS
4800	DIA	CHAETOCEROS AFFINIS
4400	DIA	CHAETOCEROS BREVIS
4200	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
3400	DIN	UNIDENTIFIED DINOFLAGELLATES
3200	DIA	CHAETOCEROS DECIPIENS
2200	DIA	CHAETOCEROS PERUVIANUS
2200	DIA	CHAETOCEROS TETRASTICHON
2200	DIA	HEMIAULUS SINENSIS
1600	DIN	PROROCENTRUM COMPRESSUM
1600	DIN	PROROCENTRUM MICANS
1600	DIA	CHAETOCEROS LAUDERI
1400	DIN	GONYAULAX SPP.
1400	DIA	EUCAMPIA CORNUTA
1400	DIA	LEPTOCYLINDRUS DANICUS
1200	DIA	STEPHANOPYXIS TURRIS
1200	DIA	CHAETOCEROS DIVERSUS (NEW)
1200	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
1000	DIA	LAUDERIA BOREALIS
1000	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)
1000	DIA	THALASSIONEMA NITZSCHOIDES
600	DIN	PERIDINIUM DEPRESSUM
600	DIN	PROROCENTRUM SP. 1 (SMALL)
600	DIA	CHAETOCEROS CURVISETUS
600	DIA	RHIZOSOLENIA DELICATULA
600	DIA	UNIDENTIFIED CENTRIC
600	DIA	NAVICULA MEMBRANACEA
400	DIN	GYMNODINIUM SPP.
400	SIL	EBRIA ANTIQUA
400	DIA	PLEUROSIGMA ANGULATUM
400	DIA	HEMIAULUS MEMBRANACEOUS
400	DIA	THALASSIOSIRA DECIPIENS
400	DIA	NAVICULA DISTANS
200	DIN	DINOPHYSIS DIEGENS
200	DIA	COSCINODISCUS LINEATUS
200	DIA	RHIZOSOLENIA FRAGILLISSIMA
200	DIA	NITZSCHIA CLOSTERIUM
200	DIA	GUINARDIA FLACCIDA
1	DIA	COSCINODISCUS SPP.
1	DIA	CHAETOCEROS LORENZIANUS
1	DIA	DETONULA CONFERVACEA
1	DIA	THALASSIOSIRA ROTULA

1030604 =TOTAL ABUNDANCE DIVERSITY = 3.15351

APRIL TRANSECT II STATION 1 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
318400	DIA	NITZSCHIA DELICATISSIMA
264000	DIA	LEPTOCYLINDRUS MINIMUS
52600	DIA	DITYLUM BRIGHTWELLII
42000	DIA	NITZSCHIA SERIATA
31600	DIA	CHAETOCEROS SPP.
27200	DIA	CHAETOCEROS MITRA
25800	DIA	CERATAULINA BERGONII
17400	DIA	RHIZOSOLENIA STOLTERFOTHII
11800	DIA	NITZSCHIA PUNGENS
9600	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
8000	DIA	THALASSIOTHRIX MEDITERRANES
8000	DIA	CHAETOCEROS PSEUDOCURVISETUS
5800	DIA	CHAETOCEROS COMPRESSUS
5600	DIA	EUCAMPIA ZODIACUS
4800	DIA	LEPTOCYLINDRUS DANICUS
4800	DIA	UNIDENTIFIED CENTRIC
4600	DIA	CHAETOCEROS AFFINIS
4200	DIA	CHAETOCEROS LACINOSUS
4000	DIA	CHAETOCEROS LORENZIANUS
4000	DIA	HEMIAULUS SINENSIS
3000	DIA	CHAETOCEROS SOCIALIS
2800	DIA	CHAETOCEROS HOLSATICUS
2600	DIA	THALASSIOSIRA DECIPIENS
2400	DIA	CHAETOCEROS DIVERSUS (NEW)
2000	DIA	CHAETOCEROS PELAGICUS
2000	DIA	THALASSIONEMA NITZSCHOIDES
1800	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)
1800	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
1400	DIN	UNIDENTIFIED DINOFLAGELLATES
1000	DIA	LAUDERIA BOREALIS
1000	DIA	RHIZOSOLENIA DELICATULA
1000	DIA	UNIDENTIFIED PENNATE
800	DIA	CHAETOCEROS BREVIS
600	DIN	GONYAULAX SPP.
600	DIA	HEMIAULUS HAUCKII
600	DIA	RHIZOSOLENIA FRAGILLISSIMA
600	DIA	THALASSIOSIRA ROTULA
518	DIA	SKELETONEMA COSTATUM
400	DIN	PROROCENTRUM COMPRESSUM
400	DIA	CHAETOCEROS PERUVIANUS
400	DIA	NAVICULA DISTANS
400	DIA	CONSCINODISCUS RADIATUS
200	DIA	COSCINODISCUS ASTEROMPHALUS
200	DIA	COSCINODISCUS MARGINATUS
200	DIN	PROROCENTRUM SP. 1 (SMALL)
200	DIA	NAVICULA SP. 1
200	DIA	RHIZOSOLENIA SETIGERA
1	DIN	PERIDINIUM DEPRESSUM
1	DIN	CERATIUM HIRCUS
1	DIA	RHIZOSOLENIA IMBRICATA V. SHRUBSOLEI

883321 =TOTAL ABUNDANCE DIVERSITY = 2.99825

APRIL TRANSECT II STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
715400	DIA	SKELETONEMA COSTATUM
545200	DIA	LEPTOCYLINDRUS MINIMUS
274600	DIA	NITZSCHIA DELICATISSIMA
170800	DIA	NITZSCHIA SERIATA
74200	DIA	CERATAULINA BERGONII
69800	DIA	DITYLUM BRIGHTWELLII
65600	DIA	NITZSCHIA PUNGENS
47600	DIA	CHAETOCEROS SPP.
40600	DIA	CHAETOCEROS MITRA
26800	DIA	RHIZOSOLENIA STOLTERFOTHII
25600	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)
21000	DIA	CHAETOCEROS PSEUDOCURVISETUS
19600	DIA	CHAETOCEROS AFFINIS
15600	DIA	CHAETOCEROS DIVERSUS (NEW)
14600	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
13800	DIA	THALASSIOTHRIX MEDITERRANES
12800	DIA	CHAETOCEROS CURVISETUS
12000	DIA	CHAETOCEROS DECIPIENS
10800	DIA	CHAETOCEROS COMPRESSUS
10600	DIA	EUCAMPIA ZODIACUS
9600	DIA	CHAETOCEROS LACINOSUS
7800	DIA	THALASSIONEMA NITZSCHOIDES
7800	DIA	HEMIAULUS SINENSIS
6600	DIA	CHAETOCEROS LORENZIANUS
5000	DIA	CHAETOCEROS CONCAVICORNIS
4200	DIA	CHAETOCEROS SOCIALIS
4200	DIN	GONYAULAX SPP.
4000	DIA	CHAETOCEROS HOLSATICUS
4000	DIA	THALASSIOSIRA DECIPIENS
3400	DIA	CHAETOCEROS LAUDERI
3200	DIA	CHAETOCEROS PELAGICUS
3000	DIN	UNIDENTIFIED DINOFLAGELLATES
2800	DIA	LEPTOCYLINDRUS DANICUS
2400	DIA	CHAETOCEROS PERUVIANUS
2200	DIA	RHIZOSOLENIA DELICATULA
2000	DIA	CHAETOCEROS DIDYMUS
1800	DIA	LAUDERIA BOREALIS
1800	DIA	THALASSIOSIRA SUBTILIS
1600	DIA	CHAETOCEROS TERES
1600	DIA	NITZSCHIA PACIFICA
1600	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
1400	DIA	THALASSIOSIRA ROTULA
1200	DIA	CHAETOCEROS PSEUDOCRINITUS
1200	DIA	MELOSIRA DUBIA

APRIL TRANSECT II STATION 2 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
110400	DIA	SKELETONEMA COSTATUM
90000	DIA	NITZSCHIA DELICATISSIMA
54000	DIA	CHAETOCEROS AFFINIS
46000	DIA	LEPTOCYLINDRUS MINIMUS
17800	DIA	CHAETOCEROS SPP.
12400	DIA	NITZSCHIA PUNGENS
10000	DIA	DITYLUM BRIGHTWELLII
7000	DIA	CERATAULINA BERGONII
5800	DIA	NITZSCHIA SERIATA
5400	DIA	CHAETOCEROS DECIPIENS
4400	DIA	CHAETOCEROS COMPRESSUS
3600	DIA	STEPHANOPYXIS TURRIS
3000	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)
3000	DIA	CHAETOCEROS PSEUDOCURVISETUS
2800	DIA	HEMIAULUS SINENSIS
2400	DIA	CHAETOCEROS PSEUDOCRINITUS
2400	DIA	NITZSCHIA CLOSTERIUM
2200	DIA	CHAETOCEROS AFFINIS V. WILLIEI
1800	DIA	CHAETOCEROS BREVIS
1800	DIA	CHAETOCEROS MITRA
1800	DIA	THALASSIOTHRIX MEDITERRANES
1800	DIA	RHIZOSOLENIA STOLTERFOTHII
1600	DIA	EUCAMPIA ZODIACUS
1400	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
1400	DIA	CHAETOCEROS DIVERSUS (NEW)
1400	DIA	LEPTOCYLINDRUS DANICUS
1000	DIA	CHAETOCEROS HOLSATICUS
1000	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
600	DIA	CHAETOCEROS LACINOSUS
600	DIA	THALASSIONEMA NITZSCHOIDES
600	DIA	CHAETOCEROS TETRASTICHON
600	DIA	UNIDENTIFIED PENNATE
400	DIA	CHAETOCEROS DICHAETA
400	DIA	CHAETOCEROS PERUVIANUS
400	DIA	RHIZOSOLENIA SETIGERA
400	DIA	HEMIAULUS HAUCKII
400	DIA	UNIDENTIFIED CENTRIC
400	DIA	HEMIAULUS MEMBRANACEOUS
200	DIN	PROROCENTRUM SP. 1 (SMALL)
200	DIN	CERATIUM KOFOIDII
200	DIN	UNIDENTIFIED DINOFLAGELLATES
200	DIA	BACTERIASTRUM ELEGANS
200	DIA	BIDDULPHIA MOBILIENSIS
200	DIA	CHAETOCEROS GLANDAZII

800	DIA	UNIDENTIFIED CENTRIC
800	DIA	UNIDENTIFIED PENNATE
800	DIA	NAVICULA MEMBRANACEA
800	DIA	RHIZOSOLENIA SETIGERA
600	DIA	BIDDULPHIA MOBILIENSIS
600	DIA	CHAETOCEROS BREVIS
400	DIA	DACTYLIOSOLEN MEDITERRANEUS
400	DIA	EUCAMPIA CORNUTA
400	DIA	GUINARDIA FLACCIDA
400	DIA	CHAETOCEROS DICHAETA
400	DIA	NITZSCHIA CLOSTERIUM
400	DIN	DINOPHYSIS CAUDATA
400	DIN	PROROCENTRUM SP. 1 (SMALL)
400	DIA	CHAETOCEROS DIVERSUS
200	DIA	CHAETOCEROS GLANDAZII
200	DIN	PERIDINIUM SPP.
200	DIN	CERATIUM TRIPOS
200	DIA	COSCINODISCUS SPP.
200	DIA	DIPLONEIS SPP.
200	DIA	RHIZOSOLENIA CALCAR AVIS
200	DIN	PERIDINIUM DEPRESSUM
200	DIA	CYCLOTELLA SPP.
200	DIN	PRORUCENTRUM MICANS
200	DIA	THALASSIOSIRA DECIPIENS
200	DIA	GUINARDIA FLACCIDA
200	DIA	EUCAMPIA CORNUTA
1	DIN	PROROCENTRUM MICANS *
1	DIA	CHAETOCEROS CURVISETUS
1	DIA	LITHODESMIUM UNDULATUM
1	DIA	NAVICULA MEMBRANACEA
1	DIA	NAVICULA ELEGANS
1	DIA	THALASSIOSIRA ROTULA
1	DIA	RHIZOSOLENIA ALATA V. INDICA
1	DIA	RHIZOSOLENIA CALCAR AVIS
1	DIA	COSCINODISCUS SPP.
1	DIA	LAUDERIA BOREALIS

2281000 =TOTAL ABUNDANCE DIVERSITY = 3.30389

404210 =TOTAL ABUNDANCE DIVERSITY = 3.37930

APRIL TRANSECT II STATION 3 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
31260	DIA	NITZSCHIA DELICATISSIMA
1720	DIA	CHAETOCEROS SPP.
1300	DIA	SKELETONEMA COSTATUM
1040	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
820	DIA	CHAETOCEROS COMPRESSUS
800	DIA	CHAETOCEROS AFFINIS
420	DIA	CHAETOCEROS DIVERSUS (NEW)
380	DIA	LEPTOCYLINDRUS DANICUS
340	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
320	DIA	CHAETOCEROS LACINOSUS
240	DIA	CERATAULINA BERGONII
240	DIA	CHAETOCEROS DECIPIENS
200	DIA	CHAETOCEROS PERUVIANUS
180	DIA	CHAETOCEROS LORENZIANUS
160	DIA	NITZSCHIA CLOSTERIUM
140	DIA	RHIZOSOLENIA STOLTERFOTHII
140	DIA	THALASSIONEMA NITZSCHOIDES
120	DIA	UNIDENTIFIED PENNATE
120	DIA	RHIZOSOLENIA IMBRICATA
100	DIA	NITZSCHIA SPP.
100	DIA	CHAETOCEROS MITRA
80	DIA	RHIZOSOLENIA SETIGERA
80	DIN	UNIDENTIFIED DINOFLAGELLATES
80	DIA	HEMIAULUS MEMBRANACEOUS
60	DIA	CHAETOCEROS DADAYI
60	DIA	RHIZOSOLENIA CALCAR AVIS
60	DIA	CHAETOCEROS HOLSATICUS
60	DIN	PROROCENTRUM COMPRESSUM
60	DIA	CHAETOCEROS SOCIALIS
40	DIA	THALASSIOTHRIX LONGISSIMA
40	DIA	THALASSIOSIRA ROTULA
40	DIA	UNIDENTIFIED CENTRIC
40	DIN	GONYAULAX SPP.
40	DIA	RHIZOSOLENIA FRAGILLISSIMA
40	DIN	DINOPHYSIS CAUDATA V. PEDUNCULATA
40	DIA	CORETHRON HYSTRIX
20	DIA	THALASSIOSIRA DECIPIENS
20	DIN	PERIDINIUM SPP.
20	DIA	NITZSCHIA LONGISSIMA
20	DIA	HEMIAULUS HAUCKII
20	DIA	DITYLUM BRIGHTWELLII
1	DIN	OXYTOXUM SCEPTRUM
1	DIN	CERATIUM KOFOIDII
1	DIA	RHIZOSOLENIA ALATA V. INDICA
1	DIA	CHAETOCEROS ATLANTICUS V. AUDAX
1	DIA	THALASSIOTHRIX MEDITERRANES
1	DIA	CHAETOCEROS TETRASTICHON

41066 =TOTAL ABUNDANCE DIVERSITY = 1.80743

APRIL TRANSECT II STATION 3 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
28920	DIA	NITZSCHIA DELICATISSIMA
1980	DIA	SKELETONEMA COSTATUM
1720	DIA	CHAETOCEROS SPP.
1020	DIA	CHAETOCEROS AFFINIS
920	DIA	CHAETOCEROS COMPRESSUS
800	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
700	DIA	CHAETOCEROS DECIPIENS V. SINGULARIS
460	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
320	DIA	CHAETOCEROS PSEUDOCURVISETUS
300	DIA	UNIDENTIFIED PENNATE
300	DIA	CHAETOCEROS DIVERSUS (NEW)
300	DIA	THALASSIONEMA NITZSCHOIDES
280	DIA	CERATAULINA BERGONII
280	DIA	CHAETOCEROS SOCIALIS
260	DIA	CHAETOCEROS LACINOSUS
260	DIA	NITZSCHIA CLOSTERIUM
200	DIA	THALASSIOSIRA DECIPIENS
200	DIA	CHAETOCEROS PERUVIANUS
200	DIA	LEPTOCYLINDRUS DANICUS
180	DIA	RHIZOSOLENIA SETIGERA
160	DIA	CHAETOCEROS PELAGICUS
140	DIN	UNIDENTIFIED DINOFLAGELLATES
140	DIA	RHIZOSOLENIA DELICATULA
100	DIA	GUINARDIA FLACCIDA
100	DIA	NITZSCHIA SERIATA
100	DIA	RHIZOSOLENIA STOLTERFOTHII
80	DIA	UNIDENTIFIED CENTRIC
80	DIN	PROROCENTRUM SP. 1 (SMALL)
60	DIA	NITZSCHIA SPP.
40	DIA	HEMIAULUS SINENSIS
40	DIA	HEMIAULUS MEMBRANACEOUS
40	DIN	GONYAULAX SPP.
40	DIA	DITYLUM BRIGHTWELLII
40	DIA	STEPHANOPYXIS TURRIS
40	DIA	HEMIAULUS HAUCKII
20	DIA	CHAETOCEROS DELICATULUS
20	DIA	EUCAMPIA CORNUTA
20	DIN	PERIDINIUM SPP.
20	DIN	GONYODOMA SPP.
20	DIA	RHIZOSOLENIA IMBRICATA V. SHRUBSOLEI
1	DIA	LAUDERIA BOREALIS
1	DIA	RHIZOSOLENIA HEBETATA V. SEMISPINA
1	DIN	CERATIUM TRIPOS
1	DIN	PYROPHACUS HOROLOGIUM
1	DIA	CONSCINODISCUS RADIATUS
1	DIA	DETONULA CONFERVACEA
1	DIA	CORETHRON HYSTRIX

40907 =TOTAL ABUNDANCE DIVERSITY = 2.13822

SPRING TRANSECT I STATION 1 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
1000	DIA	GUINARDIA FLACCIDA
920	DIA	DACTYLIOSOLEN MEDITERRANEUS
560	DIN	UNIDENTIFIED DINOFLAGELLATES
300	DIA	LEPTOCYLINDRUS DANICUS
300	DIA	NITZSCHIA DELICATISSIMA
300	DIA	CHAETOCEROS PSEUDOCURVISETUS
280	DIN	GONYAULAX SPP.
240	DIA	RHIZOSOLENIA STOLTERFOTHII
100	DIA	LAUDERIA BOREALIS
100	DIA	HEMIAULUS SINENSIS
100	DIN	PRORocentrum ROSTRATUM
80	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
60	DIA	RHIZOSOLENIA ALATA V. ALATA
60	DIA	NAVICULA MEMBRANACEA
40	DIA	RHIZOSOLENIA ALATA V. INDICA
20	DIA	NITZSCHIA SPP.
20	BLU	TRICHODESMIUM THIEBAUTII
20	DIN	PERIDINIUM SPP.
20	DIA	RHIZOSOLENIA HEBETATA V. SEMISPINA
20	DIA	RHIZOSOLENIA ROBUSTA
20	DIA	RHIZOSOLENIA SETIGERA
20	DIA	RHIZOSOLENIA STYLIFORMIS V. LONGISPIN
20	DIA	RHIZOSOLENIA CALCAR AVIS
20	DIA	CHAETOCEROS PERUVIANUS
20	DIA	THALASSIOTHRIX MEDITERRANES
20	DIA	UNIDENTIFIED PENNATE
1	DIA	CHAETOCEROS CURVISETUS
1	DIA	RHIZOSOLENIA FRAGILLISSIMA

4662 =TOTAL ABUNDANCE DIVERSITY = 3.59395

SPRING TRANSECT I STATION 1 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
2220	DIA	LEPTOCYLINDRUS DANICUS
700	DIA	DACTYLIOSOLEN MEDITERRANEUS
620	DIA	GUINARDIA FLACCIDA
560	DIA	RHIZOSOLENIA STOLTERFOTHII
560	DIN	UNIDENTIFIED DINOFLAGELLATES
480	DIA	NAVICULA MEMBRANACEA
220	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
200	DIA	NITZSCHIA DELICATISSIMA
160	DIA	CHAETOCEROS PSEUDOCRINITUS
160	DIA	BACTERIASTRUM HYALINUM
160	DIN	PRORocentrum ROSTRATUM
140	DIN	GONYAULAX SPP.
140	DIA	CERATAULINA BERGONII
80	DIA	CHAETOCEROS AFFINIS
60	DIA	CHAETOCEROS DIVERSUS (NEW)
60	DIA	NAVICULA WARNRIKAE
40	DIA	RHIZOSOLENIA CALCAR AVIS
40	DIA	RHIZOSOLENIA HEBETATA V. SEMISPINA
40	DIA	RHIZOSOLENIA STYLIFORMIS
40	DIA	CHAETOCEROS SPP.
40	DIA	UNIDENTIFIED PENNATE
40	DIA	RHIZOSOLENIA ALATA V. INDICA
40	DIA	UNIDENTIFIED CENTRIC
20	DIN	PERIDINIUM SPP.
20	DIN	PERIDINIUM CERASUS
20	DIA	NITZSCHIA CLOSTERIUM
20	DIA	NITZSCHIA SERIATA
1	DIA	RHIZOSOLENIA STYLIFORMIS V. LONGISPIN
1	DIA	RHIZOSOLENIA STYLIFORMIS V. LATISSIMA
1	DIA	CHAETOCEROS DECIPIENS

6883 =TOTAL ABUNDANCE DIVERSITY = 3.55126

SPRING TRANSECT I STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
1740	DIA	LEPTOCYLINDRUS DANICUS
1100	DIA	GUINARDIA FLACCIDA
820	DIA	RHIZOSOLENIA STOLTERFOTHII
440	DIA	NITZSCHIA DELICATISSIMA
320	DIA	RHIZOSOLENIA STYLIFORMIS V. LONGISPIN
220	DIA	DACTYLIOSOLEN MEDITERRANEUS
220	DIA	RHIZOSOLENIA FRAGILLISSIMA
180	DIA	HEMIAULUS MEMBRANACEOUS
160	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
140	DIA	CHAETOCEROS PSEUDOCRINITUS
120	DIA	NAVICULA MEMBRANACEA
120	BLU	TRICHODESMIUM SPP.
100	DIA	BACTERIASTRUM HYALINUM
80	DIA	CHAETOCEROS SPP.
80	DIA	CERATAULINA BERGONII
80	DIN	UNIDENTIFIED DINOFLAGELLATES
60	DIA	NAVICULA MARWRIKAE
60	DIA	NITZSCHIA SERIATA
60	DIA	RHIZOSOLENIA HEBETATA V. SEMISPINA
40	DIA	CHAETOCEROS DECIPIENS
40	DIA	NITZSCHIA CLOSTERIUM
40	DIN	GONYAULAX SPP.
20	DIA	UNIDENTIFIED CENTRIC
20	DIA	LAUDERIA BOREALIS
20	DIA	DACTYLIOSOLEN ANTARCTICUS
20	DIA	UNIDENTIFIED PENNATE
20	DIN	DINOPHYSIS ACUTA

6320 =TOTAL ABUNDANCE DIVERSITY = 3.57723

SPRING TRANSECT I STATION 2 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
600	DIA	GUINARDIA FLACCIDA
380	DIA	NITZSCHIA DELICATISSIMA
360	BLU	TRICHODESMIUM SPP.
320	DIA	NAVICULA MEMBRANACEA
220	DIA	LEPTOCYLINDRUS DANICUS
180	DIA	DACTYLIOSOLEN MEDITERRANEUS
160	DIN	UNIDENTIFIED DINOFLAGELLATES
120	DIA	NITZSCHIA CLOSTERIUM
120	DIA	CHAETOCEROS LACINOSUS
100	DIN	GONYAULAX SPP.
100	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
100	DIA	RHIZOSOLENIA STOLTERFOTHII
80	DIA	RHIZOSOLENIA FRAGILLISSIMA
80	DIA	RHIZOSOLENIA STYLIFORMIS
80	DIA	UNIDENTIFIED PENNATE
20	DIN	PROROCENTRUM SP. 1 (SMALL)
20	DIN	PROROCENTRUM ROSTRATUM
20	DIA	RHIZOSOLENIA ALATA V. ALATA
20	DIA	RHIZOSOLENIA ROBUSTA
20	DIA	RHIZOSOLENIA HEBETATA V. SEMISPINA
20	DIA	RHIZOSOLENIA STYLIFORMIS V. LONGISPIN
20	DIA	UNIDENTIFIED CENTRIC
20	DIA	CERATAULINA BERGONII
20	DIA	THALASSIOTHRIX MEDITERRANES

3180 =TOTAL ABUNDANCE DIVERSITY = 3.87648

SPRING TRANSECT I STATION 3 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
760	DIA	LEPTOCYLINDRUS DANICUS
380	BLU	TRICHODESMIUM SPP.
200	DIA	NITZSCHIA DELICATISSIMA
140	DIA	CHAETOCEROS DECIPIENS
140	DIA	DACTYLIOSOLEN ANTARCTICUS
120	DIN	UNIDENTIFIED DINOFLAGELLATES
80	DIA	DACTYLIOSOLEN MEDITERRANEUS
80	DIA	UNIDENTIFIED PENNATE
80	DIN	GONYAULAX SPP.
40	DIA	CHAETOCEROS SPP.
40	DIA	NITZSCHIA CLOSTERIUM
40	DIA	HEMIAULUS MEMBRANACEOUS
20	DIN	OXYTOXUM SCEPTRUM
20	DIN	PROROCENTRUM COMPRESSUM
20	DIA	ASTEROMPHALUS HEPTACTIS
20	DIA	DIPLONEIS SPP.
20	DIA	COSCINODISCUS SPP.
20	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
1	DIN	GYMNODINIUM SPP.
1	DIN	CERATIUM HIRCUS
1	DIA	NAVICULA SPP.

2223 =TOTAL ABUNDANCE DIVERSITY = 3.22531

SPRING TRANSECT I STATION 3 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
800	DIA	LEPTOCYLINDRUS DANICUS
160	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
140	DIN	UNIDENTIFIED DINOFLAGELLATES
120	DIA	UNIDENTIFIED PENNATE
120	DIA	CHAETOCEROS SPP.
120	DIA	LEPTOCYLINDRUS MINIMUS
100	DIA	CHAETOCEROS SOCIALIS
80	DIA	NITZSCHIA CLOSTERIUM
60	DIA	GUINARDIA FLACCIDA
60	DIA	NITZSCHIA DELICATISSIMA
60	DIA	NAVICULA WARMBRIKAE
40	DIA	NAVICULA SPP.
40	DIA	CHAETOCEROS DADAYI
40	DIA	DACTYLIOSOLEN ANTARCTICUS
40	DIA	BACTERIASTRUM HYALINUM
40	DIN	PROROCENTRUM SP. U (SMALL)
20	DIN	CERATIUM KOFOIDII
20	SIL	DICTYOCHA FIBULA
20	DIA	THALASSIOTHRIX LONGISSIMA
20	DIA	RHIZOSOLENIA HEBETATA V. HIEMALIS
20	DIA	CHAETOCEROS PERUVIANUS
20	DIA	COSCINODISCUS SPP.
20	DIA	NITZSCHIA SPP.
20	DIA	HEMIAULUS MEMBRANACEOUS
20	DIA	RHIZOSOLENIA ALATA V. ALATA
20	DIN	PODOLAMPAS SPINIFERA
20	DIN	PERIDINIUM SPINIFERUM
20	DIN	GONYAULAX SPP.

2260 =TOTAL ABUNDANCE DIVERSITY = 3.75620

SPRING TRANSECT II STATION 1 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
3120	DIA	CHAETOCEROS DECIPIENS
2920	DIA	BACTERIASTRUM HYALINUM
2660	DIA	RHIZOSOLENIA STOLTERFOTHII
2180	DIA	LEPTOCYLINDRUS DANICUS
1860	DIA	CHAETOCEROS PSEUDOCRINITUS
1820	DIA	CHAETOCEROS SPP.
1620	DIA	RHIZOSOLENIA CALCAR AVIS
1480	DIA	NITZSCHIA PUNGENS
1480	DIA	NITZSCHIA DELICATISSIMA
1440	DIA	GUINARDIA FLACCIDA
1000	DIA	CHAETOCEROS PERUVIANUS
960	DIA	CHAETOCEROS FURCELLATUS
820	DIA	CHAETOCEROS AFFINIS
660	DIA	HEMIAULUS MEMBRANACEOUS
520	DIA	UNIDENTIFIED PENNATE
520	DIA	RHIZOSOLENIA HEBETATA V. SEMISPINA
460	DIA	CHAETOCEROS CURVISETUS
440	DIA	LEPTOCYLINDRUS MINIMUS
400	DIA	NAVICULA WARWRIKAE
320	DIA	CHAETOCEROS PSEUDOCURVISETUS
320	DIA	CHAETOCEROS DIVERSUS (NEW)
320	DIA	HEMIAULUS SINENSIS
260	DIN	UNIDENTIFIED DINOFLAGELLATES
260	DIA	RHIZOSOLENIA FRAGILLISSIMA
260	DIA	DACTYLIOSOLEN ANTARCTICUS
220	DIA	CHAETOCEROS LORENZIANUS
200	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
200	DIA	NAVICULA DISTANS
200	DIA	RHIZOSOLENIA DELICATULA
200	DIA	THALASSIOTHRIX MEDITERRANES
200	DIA	NAVICULA MEMBRANACEA
200	DIA	SKELETONEMA COSTATUM
180	DIA	UNIDENTIFIED CENTRIC
180	DIN	GONYAULAX SPP.
160	DIA	CHAETOCEROS ATLANTICUS V. NEOPOLITANA
140	DIA	THALASSIOTHRIX LONGISSIMA
140	DIA	CORETHRON HYSTRIX
120	DIA	CHAETOCEROS LACINOSUS
120	DIA	CHAETOCEROS COMPRESSUS
100	DIA	PLEUROSIGMA STRIGOSUM
100	DIA	CHAETOCEROS BREVIS
100	DIA	LAUDERIA BOREALIS

SPRING TRANSECT II STATION 1 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
5040	DIA	RHIZOSOLENIA STOLTERFOTHII
3480	DIA	CHAETOCEROS DECIPIENS
3340	DIA	BACTERIASTRUM HYALINUM
3200	DIA	LEPTOCYLINDRUS DANICUS
2140	DIA	CHAETOCEROS SPP.
2000	DIA	NITZSCHIA PUNGENS
1860	DIA	RHIZOSOLENIA CALCAR AVIS
1680	DIA	GUINARDIA FLACCIDA
1500	DIA	LEPTOCYLINDRUS MINIMUS
1280	DIA	NITZSCHIA DELICATISSIMA
1060	DIA	CHAETOCEROS PSEUDOCRINITUS
920	DIA	HEMIAULUS MEMBRANACEOUS
840	DIA	CHAETOCEROS FURCELLATUS
760	DIA	CHAETOCEROS PERUVIANUS
720	DIA	RHIZOSOLENIA FRAGILLISSIMA
640	DIA	RHIZOSOLENIA HEBETATA V. SEMISPINA
640	DIA	HEMIAULUS SINENSIS
560	DIA	CHAETOCEROS CURVISETUS
520	DIA	SCHRUDERELLA DELICATULA
480	DIA	NAVICULA DISTANS
400	DIA	CHAETOCEROS PELAGICUS
340	DIA	CHAETOCEROS AFFINIS
340	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
340	DIA	CHAETOCEROS LORENZIANUS
340	DIN	UNIDENTIFIED DINOFLAGELLATES
320	DIA	NAVICULA WARWRIKAE
300	DIA	NAVICULA MEMBRANACEA
300	DIA	RHIZOSOLENIA DELICATULA
260	DIA	UNIDENTIFIED PENNATE
240	DIA	UNIDENTIFIED CENTRIC
240	DIA	CHAETOCEROS TERES
220	DIA	RHIZOSOLENIA STYLIFORMIS V. LONGISPIN
220	DIA	CHAETOCEROS COMPRESSUS
220	DIA	DACTYLIOSOLEN ANTARCTICUS
200	DIA	PLEUROSIGMA SPP.
200	DIA	CHAETOCEROS SOCIALIS
200	DIA	CHAETOCEROS DIVERSUS (NEW)
160	DIA	RHIZOSOLENIA IMBRICATA V. SHRUBSOLEI
140	DIA	CORETHRON HYSTRIX
120	DIA	CHAETOCEROS ATLANTICUS V. AUDAX
120	DIA	NITZSCHIA PACIFICA
100	DIA	RHIZOSOLENIA PUNGENS

80	DIA	NITZSCHIA SPP.
80	DIN	CERATIUM HIRCUS
80	DIA	NITZSCHIA PACIFICA
80	DIA	RHIZOSOLENIA STYLIFORMIS V. LONGISPIN
80	DIA	COSCINOSIRA OESTRUPII
60	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
40	DIN	CERATIUM TRIPOS
40	DIA	NITZSCHIA CLOSTERIUM
40	DIA	COSCINODISCUS SPP.
40	DIN	PERIDINIUM SPP.
40	DIN	PROROCENTRUM MICANS
40	DIN	PERIDINIUM FALLIPES
20	DIA	NAVICULA SPP.
20	DIA	THALASSIOSIRA DECIPIENS
20	DIA	RHIZOSOLENIA PUNGENS
20	DIA	BIDDULPHIA SPP.
20	DIA	NAVICULA ELEGANS
20	DIA	RHIZOSOLENIA STYLIFORMIS
20	DIA	CHAETOCEROS GRACILIS
20	DIA	CERATAULINA BERGONII
20	DIA	ASTEROMPHALUS HEPTACTIS
20	DIA	COSCINODISCUS LINEATUS
20	DIN	PROROCENTRUM SP. 1 (SMALL)
1	DIA	THALASSIONEMA NITZSCHOIDES
1	DIA	SYNEDRA SPP.
1	BLU	TRICHODESMIUM THIEBAUTII
1	DIN	PYROPHACUS HOROLOGIUM
1	DIN	PROROCENTRUM ROSTRATUM

31785 =TOTAL ABUNDANCE DIVERSITY = 4.83788

100	DIA	PLEUROSIGMA SP. 1 (SMALL)
100	DIA	THALASSIOSIRA DECIPIENS
100	DIA	CHAETOCEROS LACINOSUS
80	DIA	CONSCINODISCUS RADIATUS
80	DIA	CHAETOCEROS PSEUDOCURVISETUS
80	DIA	PLEUROSIGMA STRIGOSUM
80	DIA	BACTERIASTRUM ELONGATUM
80	DIA	CERATAULINA BERGONII
60	DIN	GONYAULAX SPP.
60	DIA	THALASSIOTHRIX MEDITERRANES
60	DIA	RHIZOSOLENIA ALATA V. INDICA
60	DIA	LAUDERIA BOREALIS
60	DIA	COSCINODISCUS LINEATUS
40	DIA	THALASSIOTHRIX LONGISSIMA
40	DIA	ASTEROMPHALUS HEPTACTIS
40	DIA	PLEUROSIGMA MARINUM
40	DIA	THALASSIOSIRA ROTULA
40	DIA	MELOSIRA SPP.
40	DIA	DITYLUM BRIGHTWELLII
20	SIL	EBRIA ANTIQUA
20	DIA	NITZSCHIA SPP.
20	DIA	NITZSCHIA CLOSTERIUM
20	DIA	NAVICULA ELEGANS
20	DIA	RHIZOSOLENIA ROBUSTA
20	DIA	EUCAMPIA CORNUTA
20	DIA	DIPLONEIS SPP.
20	DIN	CERATIUM KOFOIDII
20	DIN	CERATIUM TRIPOS
20	DIN	GYMNODINIUM SPP.
20	DIN	PYROPHACUS HOROLOGIUM
20	DIN	PYROCYSTIS PSEUDONOCTILUCA

39460 =TOTAL ABUNDANCE DIVERSITY = 4.85239

SPRING TRANSECT II STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
1000	DIA	LEPTOCYLINDRUS DANICUS
500	BLU	TRICHODESMIUM SPP.
500	DIA	CHAETOCEROS CURVISETUS
400	DIA	UNIDENTIFIED PENNATE
340	DIA	NITZSCHIA DELICATISSIMA
300	DIA	BACTERIASTRUM ELONGATUM
300	DIA	BACTERIASTRUM HYALINUM
280	DIA	CHAETOCEROS DECIPIENS
280	DIA	GUINARDIA FLACCIDA
260	DIA	NITZSCHIA SPP.
260	DIN	UNIDENTIFIED DINOFLAGELLATES
160	DIA	NITZSCHIA CLOSTERIUM
120	DIA	CHAETOCEROS PERUVIANUS
100	DIA	CHAETOCEROS SPP.
80	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
60	DIA	NAVICULA WARWRIKAE
60	DIA	DACTYLIOSOLEN ANTARCTICUS
40	DIA	THALASSIOTHRIX LONGISSIMA
40	DIA	RHIZOSOLENIA DELICATULA
40	DIA	RHIZOSOLENIA ALATA V. ALATA
40	DIA	RHIZOSOLENIA STYLIFORMIS V. LONGISPIN
20	DIA	COSCINODISCUS SPP.
20	DIN	PROROCENTRUM COMPRESSUM
1	DIA	THALASSIOTHRIX MEDITERRANES
1	DIA	CHAETOCEROS ATLANTICUS V. AUDAX
1	DIA	CHAETOCEROS LACINOSUS

5203 =TOTAL ABUNDANCE DIVERSITY = 3.93085

SPRING TRANSECT II STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
1180	BLU	TRICHODESMIUM SPP.
460	BLU	TRICHODESMIUM SPP.
400	DIA	CHAETOCEROS DEBILIS
260	DIA	NITZSCHIA DELICATISSIMA
200	DIA	CHAETOCEROS DECIPIENS
180	DIA	NAVICULA MEMBRANACEA
160	DIN	UNIDENTIFIED DINOFLAGELLATES
140	DIA	CHAETOCEROS DECIPIENS
140	DIA	NITZSCHIA SPP.
120	DIA	CHAETOCEROS DEBILIS
120	DIN	GYMNODINIUM SPP.
100	DIA	BACTERIASTRUM ELONGATUM
100	DIA	UNIDENTIFIED PENNATE
100	DIA	RHIZOSOLENIA STYLIFORMIS V. LONGISPIN
80	DIA	LEPTOCYLINDRUS DANICUS
80	DIA	NAVICULA WARWRIKAE
60	DIA	GUINARDIA FLACCIDA
60	DIA	CHAETOCEROS PERUVIANUS
40	DIA	HEMIAULUS HAUCKII
40	DIA	THALASSIOTHRIX LONGISSIMA
40	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
40	DIA	RHIZOSOLENIA ALATA V. ALATA
40	DIN	GYMNODINIUM SP. 1
20	DIN	GONYAULAX SPP.
20	DIA	BACTERIASTRUM HYALINUM
20	DIA	ASTEROMPHALUS HEPTACTIS
20	DIA	RHIZOSOLENIA ALATA V. INDICA
20	DIN	GONYAULAX POLYGRAMMA
1	DIA	NITZSCHIA LONGISSIMA

4241 =TOTAL ABUNDANCE DIVERSITY = 3.90612

SPRING TRANSECT II STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
400	DIN	UNIDENTIFIED DINOFLAGELLATES
240	DIA	CHAETOCERUS SPP.
220	DIA	LEPTOCYLINDRUS DANICUS
160	DIA	RHIZOSOLENIA STYLIFORMIS V. LONGISPIN
160	DIA	NAVICULA MEMBRANACEA
160	DIN	GYMNODINIUM SPP.
140	DIA	HEMIAULUS MEMBRANACEOUS
140	DIA	NITZSCHIA DELICATISSIMA
120	DIA	THALASSIOTHRIX LONGISSIMA
120	DIA	NITZSCHIA SPP.
120	DIA	GUINARDIA FLACCIDA
80	DIA	CHAETOCEROS PERUVIANUS
60	DIN	GYMNODINIUM SP. 1
60	DIA	UNIDENTIFIED PENNATE
60	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
60	DIA	NAVICULA HARWRIKAE
40	DIN	AMPHIDINIUM ACUTISSIMUM
40	DIA	UNIDENTIFIED CENTRIC
40	DIA	RHIZOSOLENIA STOLTERFOTHII
40	DIN	GONYAULAX SPP.
20	DIA	RHIZOSOLENIA ALATA V. INDICA
20	DIA	DACTYLIOSOLEN ANTARCTICUS
20	DIN	GONYAULAX MINIMA
1	DIA	RHIZOSOLENIA CALCAR AVIS
1	DIA	LAUDERIA BOREALIS
1	DIA	HEMIAULUS HAUCKII
1	DIN	CLADOPYXIS SPP.

2524 =TOTAL ABUNDANCE DIVERSITY = 4.13777

SPRING TRANSECT II STATION 2 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
8600	DIA	NITZSCHIA DELICATISSIMA
1600	DIA	NITZSCHIA CLOSTERIUM
600	DIA	CHAETOCEROS DECIPIENS
480	DIA	BACTERIASTRUM HYALINUM
460	DIA	RHIZOSOLENIA STOLTERFOTHII
320	DIA	CHAETOCEROS CURVISETUS
300	DIA	GUINARDIA FLACCIDA
260	DIA	LEPTOCYLINDRUS DANICUS
260	DIA	NITZSCHIA LONGISSIMA
140	DIA	CHAETOCEROS PELAGICUS
140	DIA	UNIDENTIFIED PENNATE
120	DIA	NITZSCHIA SPP.
120	DIA	NITZSCHIA PACIFICA
80	DIA	CHAETOCEROS PERUVIANUS
80	DIA	CHAETOCEROS SPP.
60	DIA	CHAETOCEROS COMPRESSUS
60	DIA	RHIZOSOLENIA ALATA V. INDICA
60	DIA	RHIZOSOLENIA ALATA V. ALATA
40	DIA	THALASSIOTHRIX MEDITERRANES
40	BLU	TRICHODESMIUM SPP.
40	DIA	CHAETOCEROS FURCELLATUS
40	DIA	NAVICULA HARWRIKAE
40	DIA	LAUDERIA BOREALIS
40	DIA	HEMIAULUS MEMBRANACEOUS
40	DIA	DACTYLIOSOLEN ANTARCTICUS
40	DIA	THALASSIOTHRIX LONGISSIMA
40	DIN	GONYAULAX POLYGRAMMA
40	DIN	UNIDENTIFIED DINOFLAGELLATES
20	DIA	CONSCINODISCUS RADIATUS
20	DIA	CHAETOCEROS DECIPIENS V. SINGULARIS
20	DIA	HEMIAULUS SINENSIS
20	DIN	DINOPHYSIS SPP.
1	DIA	CERATAULINA BERGONII

14221 =TOTAL ABUNDANCE DIVERSITY = 2.49115

SPRING TRANSECT II STATION 3 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
900	DIA	LEPTOCYLINDRUS DANICUS
140	DIN	UNIDENTIFIED DINOFLAGELLATES
120	DIA	NITZSCHIA DELICATISSIMA
80	DIA	GUINARDIA FLACCIDA
80	DIA	RHIZOSOLENIA STOLTERFOTHII
80	DIA	CHAETOCEROS DECIPIENS
60	DIA	RHIZOSOLENIA STYLIFORMIS V. LONGISPIN
40	DIA	DACTYLIOSOLEN ANTARCTICUS
40	BLU	TRICHODESMIUM SPP.
40	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
40	DIA	UNIDENTIFIED PENNATE
40	DIA	RHIZOSOLENIA ALATA V. INDICA
20	DIN	PROROCENTRUM SPP.
20	DIN	CERATIUM EXTENSUM
20	DIA	NAVICULA HARWRIKAE
20	DIA	RHIZOSOLENIA ROBUSTA
20	DIA	CHAETOCEROS SPP.
20	DIA	CHAETOCEROS PERUVIANUS
20	DIN	GONYAULAX MINIMA
20	DIN	CERATIUM MACROCEROS
1	DIA	NAVICULA SPP.
1	DIA	THALASSIOSIRA AESTIVALIS
1	DIN	PODOLAMPAS SPINIFERA
1	DIN	CERATIUM KOFOIDII

1824 =TOTAL ABUNDANCE DIVERSITY = 3.00513

SPRING TRANSECT II STATION 3 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
2100	DIA	LEPTOCYLINDRUS DANICUS
180	DIN	UNIDENTIFIED DINOFLAGELLATES
140	DIA	CHAETOCEROS PSEUDOCRINITUS
100	DIA	UNIDENTIFIED PENNATE
40	DIA	THALASSIOTHRIX LONGISSIMA
40	DIN	CERATIUM CONCILIANS
20	DIN	PERIDINIUM TUBA
20	DIA	CHAETOCEROS SIMPLEX
20	DIA	CHAETOCEROS SPP.
20	DIA	RHIZOSOLENIA IMBRICATA
20	DIA	NITZSCHIA DELICATISSIMA
20	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
20	DIA	RHIZOSOLENIA CALCAR AVIS
20	DIN	CERATIUM FUSUS
20	DIN	GONYAULAX SPP.
20	DIN	PODOLAMPAS SPINIFERA
1	DIA	NITZSCHIA CLOSTERIUM
1	DIA	DACTYLIOSOLEN MEDITERRANEUS
1	DIA	CHAETOCEROS PERUVIANUS
1	DIN	CERATIUM TERES

2804 =TOTAL ABUNDANCE DIVERSITY = 1.65675

SPRING TRANSECT III STATION 1 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
760	DIA	LEPTOCYLINDRUS DANICUS
500	BLU	TRICHODESMIUM SPP.
380	DIA	CHAETOCEROS COMPRESSUS
360	DIA	CHAETOCEROS SPP.
320	DIA	NITZSCHIA SERIATA
300	DIA	NITZSCHIA DELICATISSIMA
200	DIA	CHAETOCEROS DECIPIENS
180	DIA	CHAETOCEROS FURCELLATUS
160	DIA	HEMIAULUS MEMBRANACEOUS
140	DIA	BACTERIASTRUM SPP.
140	DIA	CHAETOCEROS PERUVIANUS
140	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
100	DIA	RHIZOSOLENIA STOLTERFOTHII
100	DIA	NITZSCHIA CLOSTERIUM
100	DIA	GUINARDIA FLACCIDA
100	DIA	UNIDENTIFIED PENNATE
100	DIA	RHIZOSOLENIA CALCAR AVIS
80	DIN	GONYAULAX POLYGRAMMA
80	DIA	NITZSCHIA SPP.
80	DIN	UNIDENTIFIED DINOFLAGELLATES
60	DIA	CHAETOCEROS GLANDAZII
40	DIA	HEMIAULUS SINENSIS
40	DIN	PROROCENTRUM SP. 1 (SMALL)
20	DIN	PERIDINIUM OCEANICUM
20	DIA	CHAETOCEROS DECIPIENS V. SINGULARIS
20	DIA	RHIZOSOLENIA IMBRICATA V. SHRUBSOLEI
20	DIA	PLEUROSIGMA STRIGOSUM
20	DIA	RHIZOSOLENIA SETIGERA
20	DIA	NAVICULA HARRRIKAE
20	DIA	NAVICULA MEMBRANACEA
20	DIA	THALASSIOSIRA DECIPIENS
20	DIA	LAUDERIA BOREALIS
20	DIA	CORETHRON HYSTRIX
20	DIN	PROROCENTRUM MICANS
20	DIN	PYROPHACUS HORGLOGIUM
20	DIN	GONYAULAX MINIMA
1	DIA	BACTERIASTRUM ELONGATUM
1	DIA	CHAETOCEROS CURVISETUS
1	DIA	CHAETOCEROS DIVERSUS
1	DIA	RHIZOSOLENIA ROBUSTA
1	DIN	PROROCENTRUM SPP.
1	DIN	CERATIUM MACROCEROS
1	DIN	CERATIUM HIRCUS
1	DIN	PERIDINIUM CERASUS
1	DIN	CERATIUM KOFOIDII

4729 =TOTAL ABUNDANCE DIVERSITY = 4.39318

SPRING TRANSECT III STATION 1 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
1420	DIA	NITZSCHIA DELICATISSIMA
1060	DIA	CHAETOCEROS SPP.
960	DIA	BACTERIASTRUM HYALINUM
900	DIA	LEPTOCYLINDRUS DANICUS
880	DIA	CHAETOCEROS COMPRESSUS
840	DIA	CHAETOCEROS DECIPIENS
680	DIA	RHIZOSOLENIA STOLTERFOTHII
380	DIN	UNIDENTIFIED DINOFLAGELLATES
360	DIA	CHAETOCEROS DIVERSUS
300	DIA	CHAETOCEROS FURCELLATUS
300	DIA	DACTYLIOSOLEN MEDITERRANEUS
280	DIA	CHAETOCEROS PERUVIANUS
260	DIA	CHAETOCEROS AFFINIS
240	DIA	BACTERIASTRUM ELONGATUM
220	DIA	RHIZOSOLENIA STYLIFORMIS V. LONGISPIN
160	DIA	RHIZOSOLENIA CALCAR AVIS
140	DIA	CHAETOCEROS CURVISETUS
140	DIA	GUINARDIA FLACCIDA
140	DIA	NITZSCHIA PUNGENS
120	DIA	UNIDENTIFIED CENTRIC
120	DIA	NITZSCHIA SPP.
60	DIA	CHAETOCEROS DIDYMUS V. ANGLICA
60	DIA	THALASSIONEMA NITZSCHOIDES
60	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
40	DIN	GYMNODINIUM SPP.
40	DIA	CERATAULINA BERGONII
40	DIA	ASTEROMPHALUS HEPTACTIS
40	DIA	THALASSIOTHRIX LONGISSIMA
40	DIA	UNIDENTIFIED PENNATE
40	DIA	SCHRODERELLA DELICATULA
40	DIA	RHIZOSOLENIA SETIGERA
20	BLU	TRICHODESMIUM SPP.
20	DIA	DACTYLIOSOLEN ANTARCTICUS
20	DIA	CHAETOCEROS GLANDAZII
20	DIA	COSCINODISCUS SPP.
20	DIA	THALASSIOSIRA DECIPIENS
20	DIA	NAVICULA MEMBRANACEA
20	DIA	NITZSCHIA CLOSTERIUM
20	DIA	RHIZOSOLENIA ALATA V. INDICA
20	DIN	OXYTOXUM SPHAEROIDEUM
20	DIN	GONYAULAX POLYGRAMMA
20	DIN	PODOLAMPAS SPINIFERA
20	DIN	CERATIUM FUSUS
1	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
1	DIA	CHAETOCEROS TETRASTICHON
1	DIA	LAUDERIA BOREALIS
1	DIA	NITZSCHIA PACIFICA
1	DIN	CERATIUM MACROCEROS
1	DIN	PERIDINIUM TUBA
1	DIN	PODOLAMPAS PALMIPES

10607 =TOTAL ABUNDANCE DIVERSITY = 4.36060

SPRING TRANSECT III STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
260	DIA	UNIDENTIFIED PENNATE
200	DIA	CHAETOCEROS DECIPIENS
140	DIN	UNIDENTIFIED DINOFLAGELLATES
140	DIA	LEPTOCYLINDRUS DANICUS
100	DIA	CHAETOCEROS CURVISETUS
80	DIA	NITZSCHIA SPP.
40	DIA	RHIZOSOLENIA SETIGERA
20	DIN	GONYAULAX MINIMA
20	DIA	CONSCINODISCUS RADIATUS
20	DIA	RHIZOSOLENIA ALATA V. ALATA
20	DIA	NITZSCHIA DELICATISSIMA
20	DIA	THALASSIOTHRIX LONGISSIMA
20	DIA	UNIDENTIFIED CENTRIC
20	DIA	NITZSCHIA CLOSTERIUM
20	DIA	CHAETOCEROS PERUVIANUS
20	BLU	TRICHODESMIUM SPP.
1	DIA	ASTERUMPHALUS HEPTACTIS
1	DIA	RHIZOSOLENIA CALCAR AVIS
1	DIA	CHAETOCEROS COMPRESSUS
1	DIA	HEMIAULUS MEMBRANACEOUS
1	DIA	LAUDERIA BOREALIS
1	DIN	PROROCENTRUM MICANS

1146 =TOTAL ABUNDANCE DIVERSITY = 3.38636

SPRING TRANSECT III STATION 2 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
180	DIA	THALASSIOSIRA FALLAX
180	DIA	NITZSCHIA DELICATISSIMA
180	DIN	UNIDENTIFIED DINOFLAGELLATES
140	DIA	UNIDENTIFIED PENNATE
100	DIA	LEPTOCYLINDRUS DANICUS
60	DIA	CHAETOCEROS DECIPIENS
60	DIN	GONYAULAX MINIMA
40	DIA	NITZSCHIA CLOSTERIUM
40	DIA	NAVICULA WARWRIKAE
40	DIA	CHAETOCEROS PERUVIANUS
40	DIN	CERATIUM FUSUS
20	DIN	PODOLAMPAS SPINIFERA
20	DIA	THALASSIOSIRA SPP.
20	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
20	DIA	RHIZOSOLENIA ALATA V. ALATA
20	DIA	NITZSCHIA SPP.
20	DIA	DACTYLIOSOLEN MEDITERRANEUS
20	DIA	DACTYLIOSOLEN ANTARCTICUS
20	DIA	CORETHRON HYSTRIX
20	DIN	PYROCYSTIS NOCTILUCA
20	DIN	PODOLAMPAS PALMIPES
20	DIN	CERATIUM KOFOIDII

1280 =TOTAL ABUNDANCE DIVERSITY = 3.98711

SPRING TRANSECT III STATION 3 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
800	BLU	TRICHODESMIUM SPP.
300	DIN	UNIDENTIFIED DINOFLAGELLATES
200	DIN	GYMNODINIUM SPP.
120	DIA	UNIDENTIFIED PENNATE
60	DIN	GONYAULAX MINIMA
60	DIA	NITZSCHIA SPP.
40	DIA	NITZSCHIA CLOSTERIUM
20	DIA	RHIZOSOLENIA STYLIFORMIS V. LONGISPIN
1	DIN	PYROCYSTIS LUNULA
1	DIA	RHIZOSOLENIA ALATA V. INDICA
1	DIA	RHIZOSOLENIA ALATA V. ALATA
1	DIA	NAVICULA WARMRIKAE
1	DIA	COSCINODISCUS SPP.
1	DIA	CHAETOCEROS DECIPIENS
1	DIN	PODOLAMPAS SPINIFERA
1	DIN	CERATIUM HIRCUS
1	DIN	PERIDINIUM SPP.

1609 =TOTAL ABUNDANCE DIVERSITY = 2.23460

SPRING TRANSECT III STATION 3 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
320	DIN	UNIDENTIFIED DINOFLAGELLATES
200	DIN	GYMNODINIUM SP. 1
140	DIA	HEMIAULUS MEMBRANACEOUS
80	DIN	GONYAULAX MINIMA
40	BLU	TRICHODESMIUM SPP.
40	DIA	CHAETOCEROS SPP.
20	SIL	DICTYOCHA FIBULA
20	DIN	PODOLAMPAS SPINIFERA
20	DIA	NITZSCHIA SPP.
20	DIA	UNIDENTIFIED CENTRIC
20	DIA	NAVICULA WARMRIKAE
1	DIA	NITZSCHIA DELICATISSIMA
1	DIA	UNIDENTIFIED PENNATE
1	DIA	NITZSCHIA CLOSTERIUM
1	DIN	GYMNODINIUM SPP.
1	DIN	CERATIUM HIRCUS

925 =TOTAL ABUNDANCE DIVERSITY = 2.77294

SPRING TRANSECT III STATION 3 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
220	DIN	GYMNODINIUM SP. 1
140	DIA	RHIZOSOLENIA STOLTERFOTHII
140	DIN	GONYAULAX MINIMA
120	DIN	UNIDENTIFIED DINOFLAGELLATES
100	BLU	TRICHODESMIUM SPP.
100	DIA	HEMIAULUS MEMBRANACEOUS
80	DIA	NITZSCHIA SPP.
60	DIN	GYMNODINIUM SPP.
60	DIN	AMPHIDINIUM ACUTISSIMUM
20	DIA	NAVICULA WARMRIKAE
20	DIN	PERIDINIUM MAJUS
20	DIN	PERIDINIUM QUARNERENSE
20	DIN	PERIDINIUM CERASUS
1	DIA	RHIZOSOLENIA CALCAR AVIS

1101 =TOTAL ABUNDANCE DIVERSITY = 3.36536

SPRING TRANSECT III STATION 3 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
160	DIA	LEPTOCYLINDRUS DANICUS
160	DIA	CHAETOCEROS COARCTICUS
100	DIA	RHIZOSOLENIA STOLTERFOTHII
100	DIA	NITZSCHIA SPP.
60	DIA	UNIDENTIFIED PENNATE
40	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
20	SIL	EBRIA ANTIQUA
20	DIN	GYMNODINIUM SPP.
20	DIN	GONYAULAX MINIMA
20	DIN	PYROPHACUS HOROLOGIUM
1	DIA	THALASSIOTHRIX MEDITERRANES
1	DIA	THALASSIOSIRA SPP.

702 =TOTAL ABUNDANCE DIVERSITY = 2.92907

SPRING TRANSECT IV STATION 1 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
4880	DIA	CHAETOCEROS COMPRESSUS
2480	DIA	CHAETOCEROS SPP.
2220	DIA	CHAETOCEROS PSEUDOCRINITUS
1240	DIA	CHAETOCEROS AFFINIS
1200	DIA	NITZSCHIA DELICATISSIMA
1140	DIA	LEPTOCYLINDRUS DANICUS
1040	DIA	BACTERIASTRUM HYALINUM
900	DIA	RHIZOSOLENIA STOLTERFOTHII
800	DIA	CHAETOCEROS PELAGICUS
780	DIA	CHAETOCEROS LORENZIANUS
660	DIA	BACTERIASTRUM DELICATULUM
620	DIA	CHAETOCEROS PERUVIANUS
620	DIA	CHAETOCEROS LACINOSUS
480	DIA	CHAETOCEROS DECIPIENS
400	DIA	CHAETOCEROS FURCELLATUS
380	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
240	DIA	DACTYLIOSOLEN MEDITERRANEUS
220	DIA	DACTYLIOSOLEN ANTARCTICUS
200	DIA	RHIZOSOLENIA CALCAR AVIS
160	DIA	CHAETOCEROS DIVERSUS
120	DIA	RHIZOSOLENIA ALATA V. INDICA
120	DIA	UNIDENTIFIED PENNATE
100	DIA	THALASSIOTHRIX MEDITERRANES
100	DIA	RHIZOSOLENIA HEBETATA V. SEMISPINA
100	DIA	CERATAULINA BERGONII
100	DIA	CHAETOCEROS GLANDAZII
80	DIA	GUINARDIA FLACCIDA
80	DIA	HEMIAULUS MEMBRANACEOUS
80	DIA	NAVICULA MEMBRANACEA
60	DIA	NAVICULA WARWRIKAE
60	DIA	NITZSCHIA SPP.
60	DIA	RHIZOSOLENIA FRAGILLISSIMA
60	DIA	CHAETOCEROS CURVISETUS
40	DIN	CERATIUM MACROCEROS
40	DIA	UNIDENTIFIED CENTRIC
40	DIN	UNIDENTIFIED DINOFLAGELLATES
20	DIA	CORETHRON HYSTRIX
20	DIA	LITHODESMIUM UNDULATUM
20	DIA	NITZSCHIA CLOSTERIUM
20	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
20	DIA	RHIZOSOLENIA SETIGERA
20	SIL	EBRIA ANTIQUA
20	DIN	CERATIUM HIRCUS
20	DIN	CERATIUM FUSUS
1	DIN	GYMNODINIUM SPP.
1	DIA	RHIZOSOLENIA ROBUSTA
1	DIA	ASTEROMPHALUS HEPTACTIS

22063 =TOTAL ABUNDANCE DIVERSITY = 4.14487

SPRING TRANSECT IV STATION 1 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
2160	DIA	CHAETOCEROS DECIPIENS
2020	DIA	CHAETOCEROS COMPRESSUS
1840	DIA	LEPTOCYLINDRUS DANICUS
1420	DIA	CHAETOCEROS SPP.
1060	DIA	CHAETOCEROS LORENZIANUS
900	DIA	BACTERIASTRUM HYALINUM
860	DIA	NITZSCHIA DELICATISSIMA
660	DIA	GUINARDIA FLACCIDA
620	DIA	CHAETOCEROS PERUVIANUS
580	DIA	THALASSIONEMA NITZSCHOIDES
480	DIA	RHIZOSOLENIA CALCAR AVIS
460	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
440	DIA	NAVICULA MEMBRANACEA
440	DIA	CHAETOCEROS AFFINIS
400	DIA	SKELETONEMA COSTATUM
400	DIA	BACTERIASTRUM DELICATULUM
280	DIA	DACTYLIOSOLEN ANTARCTICUS
260	DIA	RHIZOSOLENIA ALATA V. ALATA
240	DIA	CHAETOCEROS LACINOSUS
220	DIA	NITZSCHIA SERIATA
200	DIA	NAVICULA WARWRIKAE
200	DIA	UNIDENTIFIED PENNATE
160	DIA	RHIZOSOLENIA STOLTERFOTHII
160	DIA	CHAETOCEROS DIVERSUS
140	DIA	HEMIAULUS MEMBRANACEOUS
140	DIA	CERATAULINA BERGONII
140	DIN	UNIDENTIFIED DINOFLAGELLATES
120	DIA	THALASSIOTHRIX MEDITERRANES
120	DIA	THALASSIOTHRIX LONGISSIMA
100	DIA	RHIZOSOLENIA DELICATULA
100	DIA	RHIZOSOLENIA ROBUSTA
100	DIA	CHAETOCEROS DIDYMUS V. ANGLICA
100	DIA	CHAETOCEROS GLANDAZII
80	DIA	NITZSCHIA CLOSTERIUM
80	DIA	CHAETOCEROS FURCELLATUS
60	DIA	RHIZOSOLENIA ALATA V. INDICA
40	DIA	RHIZOSOLENIA SETIGERA
40	DIA	UNIDENTIFIED CENTRIC
20	SIL	DICTYOCHA FIBULA
20	DIA	LAUDERIA BOREALIS
20	DIA	NITZSCHIA SPP.
20	DIA	RHIZOSOLENIA HEBETATA V. SEMISPINA
20	DIA	ASTEROMPHALUS HEPTACTIS
20	DIA	CORETHRON HYSTRIX
20	DIA	HEMIAULUS HAUCKII
20	DIA	HEMIAULUS SINENSIS
20	DIA	MASTIGLOIA SPP.
20	DIN	CERATIUM KOFOIDII
20	DIN	GONYAULAX POLYGRAMMA

18040 =TOTAL ABUNDANCE DIVERSITY = 4.58617

SPRING TRANSECT IV STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
280	BLU	TRICHODESMIUM SPP.
180	DIA	CHAETOCEROS SPP.
160	DIA	UNIDENTIFIED PENNATE
160	DIA	NITZSCHIA SPP.
80	DIN	UNIDENTIFIED DINOFLAGELLATES
80	DIA	BACTERIASTRUM HYALINUM
80	DIA	CHAETOCEROS DECIPIENS
60	DIA	LEPTOCYLINDRUS DANICUS
60	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
60	DIN	PERIDINIUM TUBA
40	DIA	NAVICULA MEMBRANACEA
40	DIA	ASTEROMPHALUS HEPTACTIS
40	DIA	CHAETOCEROS COMPRESSUS
40	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
20	DIA	THALASSIOTHRIX MEDITERRANES
20	DIN	CERATIUM HIRCUS
20	DIN	CACHENINA SPP.
20	DIA	CHAETOCEROS PERUVIANUS
20	DIA	DACTYLIOSOLEN MEDITERRANEUS
20	DIA	NAVICULA WARWRIKAE
20	DIA	NITZSCHIA CLOSTERIUM
20	DIA	PLEUROSIGMA SP. 1 (SMALL)
20	DIA	RHIZOSOLENIA ALATA V. ALATA
20	DIA	THALASSIONEMA NITZSCHOIDES
20	DIA	UNIDENTIFIED CENTRIC
20	DIA	CHAETOCEROS DIVERSUS
20	DIN	PROROCENTRUM SP. 1 (SMALL)
20	DIN	PROROCENTRUM MICANS
20	DIN	PERIDINIUM SPP.
20	DIN	CERATIUM EXTENSUM
1	DIA	HEMIAULUS MEMBRANACEOUS

1681 =TOTAL ABUNDANCE DIVERSITY = 4.30773

SPRING TRANSECT IV STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
700	BLU	TRICHODESMIUM SPP.
220	DIA	UNIDENTIFIED PENNATE
180	DIN	UNIDENTIFIED DINOFLAGELLATES
140	DIA	NITZSCHIA DELICATISSIMA
120	DIA	CHAETOCEROS SPP.
100	DIA	LEPTOCYLINDRUS DANICUS
80	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
60	DIA	NITZSCHIA SPP.
60	DIA	CHAETOCEROS TETRASTICHON
40	DIN	CERATIUM KOFOIDII
40	DIA	THALASSIONEMA NITZSCHOIDES
40	DIA	NAVICULA MEMBRANACEA
40	DIA	CHAETOCEROS PERUVIANUS
40	DIA	CHAETOCEROS COMPRESSUS
20	DIA	RHIZOSOLENIA ALATA V. ALATA
20	DIA	NAVICULA WARWRIKAE
20	DIA	DACTYLIOSOLEN ANTARCTICUS
20	DIA	ASTEROMPHALUS HEPTACTIS
20	DIN	GONYAULAX MINIMA
1	DIA	CORETHRON HYSTRIX
1	DIA	BACTERIASTRUM DELICATULUM
1	DIN	CERATIUM HIRCUS
1	DIN	CLADOPYXIS SPP.

1964 =TOTAL ABUNDANCE DIVERSITY = 3.36942

SPRING TRANSECT IV STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
340	DIA	BACTERIASTRUM HYALINUM
320	DIA	NITZSCHIA SPP.
280	BLU	TRICHODESMIUM SPP.
240	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
180	DIA	CHAETOCEROS SPP.
160	DIA	UNIDENTIFIED PENNATE
140	DIA	DACTYLIOSOLEN MEDITERRANEUS
140	DIN	UNIDENTIFIED DINOFLAGELLATES
120	DIA	CHAETOCEROS LACINOSUS
100	DIA	NITZSCHIA DELICATISSIMA
100	DIA	LEPTOCYLINDRUS DANICUS
60	DIN	GONYAULAX MINIMA
60	DIA	THALASSIONEMA NITZSCHUIDES
40	DIA	NAVICULA MEMBRANACEA
40	DIA	NAVICULA WARMRIKAE
40	DIA	LAUDERIA BOREALIS
40	DIA	HEMIAULUS MEMBRANACEOUS
40	DIA	CHAETOCEROS DECIPIENS
40	DIA	BACTERIASTRUM DELICATULUM
20	DIN	OXYTOXUM CORONATUM
20	DIA	NITZSCHIA CLOSTERIUM
20	DIA	DACTYLIOSOLEN ANTARCTICUS
20	DIA	CORETHRON HYSTRIX
20	DIA	CHAETOCEROS PERUVIANUS
20	DIA	RHIZOSOLENIA ALATA V. ALATA
20	DIN	GONYAULAX SPP.
20	DIN	PROROCENTRUM COMPRESSUM
1	DIA	RHIZOSOLENIA CALCAR AVIS

2641 =TOTAL ABUNDANCE DIVERSITY = 4.16153

SPRING TRANSECT IV STATION 2 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
600	BLU	TRICHODESMIUM SPP.
380	DIA	NITZSCHIA SPP.
340	DIA	NAVICULA MEMBRANACEA
300	DIA	UNIDENTIFIED PENNATE
260	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
220	DIA	DACTYLIOSOLEN MEDITERRANEUS
180	DIA	LEPTOCYLINDRUS DANICUS
160	DIA	NITZSCHIA DELICATISSIMA
140	DIN	GONYAULAX SPP.
120	DIA	NITZSCHIA CLOSTERIUM
80	DIA	CHAETOCEROS SPP.
60	DIA	CHAETOCEROS DADAYI
40	DIA	UNIDENTIFIED CENTRIC
40	SIL	EBRIA ANTIQUA
40	DIN	OXYTOXUM SPP.
20	DIA	CHAETOCEROS DICHAETA
20	DIA	CHAETOCEROS PERUVIANUS
20	DIA	DACTYLIOSOLEN ANTARCTICUS
20	DIA	LAUDERIA BOREALIS
20	DIA	NITZSCHIA LONGISSIMA
20	DIN	CERATIUM KOFOIDII
20	DIN	UNIDENTIFIED DINOFLAGELLATES
1	DIA	CHAETOCEROS TETRASTICHON
1	DIA	CHAETOCEROS CURVISETUS
1	DIA	GUINARDIA FLACCIDA
1	DIA	RHIZOSOLENIA CALCAR AVIS

3104 =TOTAL ABUNDANCE DIVERSITY = 3.75489

SPRING TRANSECT IV STATION 2 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
260	DIA	LEPTOCYLINDRUS DANICUS
220	DIA	BACTERIASTRUM HYALINUM
140	DIA	NITZSCHIA SPP.
120	DIA	GUINARDIA FLACCIDA
120	DIA	NITZSCHIA DELICATISSIMA
100	DIN	UNIDENTIFIED DINOFLAGELLATES
80	DIA	UNIDENTIFIED PENNATE
60	BLU	TRICHODESMIUM SPP.
60	DIA	DACTYLIOSOLEN MEDITERRANEUS
60	DIA	HEMIAULUS MEMBRANACEOUS
60	DIA	THALASSIOSIRA SPP.
40	DIA	RHIZOSOLENIA CALCAR AVIS
20	DIN	GONYAULAX SPP.
20	DIA	ASTEROMPHALUS HEPTACTIS
20	DIA	NAVICULA MEMBRANACEA
20	DIA	NITZSCHIA LONGISSIMA
20	DIA	RHIZOSOLENIA ALATA V. ALATA
20	DIA	RHIZOSOLENIA STYLIFORMIS V. LONGISPIN
20	DIN	CERATIUM KOFOIDII
20	DIN	OXYTOXUM SPP.
20	DIN	PODOLAMPAS BIPES
20	DIN	PYROCYSTIS PSEUDONOCTILUCA
1	DIA	CHAETOCEROS PERUVIANUS
1	DIA	NAVICULA SPP.
1	DIN	CERATIUM HIRCUS
1	DIN	CERATIUM EXTENSUM

1544 =TOTAL ABUNDANCE DIVERSITY = 3.92219

SPRING TRANSECT IV STATION 2 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
240	DIN	UNIDENTIFIED DINOFLAGELLATES
220	DIA	CHAETOCEROS SPP.
180	DIA	BACTERIASTRUM DELICATULUM
180	DIA	HEMIAULUS MEMBRANACEOUS
160	DIA	GUINARDIA FLACCIDA
140	DIA	LEPTOCYLINDRUS DANICUS
140	DIA	DACTYLIOSOLEN MEDITERRANEUS
140	DIA	NITZSCHIA SPP.
100	DIA	CHAETOCEROS DECIPIENS
80	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
80	DIA	UNIDENTIFIED PENNATE
80	DIA	RHIZOSOLENIA HEBETATA V. SEMISPINA
60	DIA	NAVICULA MEMBRANACEA
60	DIN	CERATIUM KOFOIDII
40	DIA	RHIZOSOLENIA ALATA V. ALATA
40	DIA	RHIZOSOLENIA CALCAR AVIS
40	DIN	GONYAULAX SPP.
40	DIN	GONYAULAX MINIMA
20	BLU	TRICHODESMIUM SPP.
20	DIA	BACTERIASTRUM HYALINUM
20	DIA	CHAETOCEROS PERUVIANUS
20	DIA	LAUDERIA BOREALIS
20	DIA	NAVICULA WARWRIKAE
20	SIL	DICTYOCHA FIBULA
20	DIN	PRONOCENTRUM MICANS
20	DIN	GYMNODINIUM SPP.
20	DIN	AMPHISOLENIA BIDENTATA
1	DIA	CHAETOCEROS TETRASTICHON
1	DIA	RHIZOSOLENIA IMBRICATA V. SHRUBSOLEI
1	DIA	NAVICULA SPP.
1	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
1	DIN	PYROCYSTIS PSEUDONOCTILUCA

2205 =TOTAL ABUNDANCE DIVERSITY = 4.31445

SPRING TRANSECT IV STATION 3 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
380	DIA	UNIDENTIFIED PENNATE
200	DIA	UNIDENTIFIED CENTRIC
160	DIA	RHIZOSOLENIA CALCAR AVIS
120	DIA	CHAETOCEROS SPP.
120	DIA	NITZSCHIA DELICATISSIMA
80	DIN	UNIDENTIFIED DINOFLAGELLATES
80	DIA	BACTERIASTRUM DELICATULUM
80	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
80	DIA	NITZSCHIA SPP.
80	DIA	GUINARDIA FLACCIDA
60	DIA	DACTYLIOSOLEN MEDITERRANEUS
60	DIA	CHAETOCEROS DIVERSUS
60	DIA	CHAETOCEROS DECIPIENS
60	DIN	CLADOPYXIS SPP.
60	DIN	CERATIUM FUSUS
60	DIN	PROROCENTRUM SP. 1 (SMALL)
40	DIN	PYROPHACUS HOROLOGIUM
40	DIN	GONYAULAX POLYGRAMMA
40	DIA	CHAETOCEROS PERUVIANUS
40	DIA	RHIZOSOLENIA ALATA V. ALATA
40	DIA	NAVICULA WARMRIKAE
20	BLU	TRICHODESMIUM SPP.
20	DIA	PLEUROSIGMA NORMANII
20	DIA	RHIZOSOLENIA STYLIFORMIS V. LONGISPIN
20	DIA	NITZSCHIA LONGISSIMA
20	DIA	NAVICULA MEMBRANACEA
20	DIA	LEPTOCYLINDRUS DANICUS
20	DIN	GONYAULAX MINIMA
20	DIN	CERATIUM HIRCUS
20	DIN	PODOLAMPAS SPINIFERA
20	DIN	CERATIUM EXTENSUM
20	DIN	PROROCENTRUM COMPRESSUM
1	DIA	PLEUROSIGMA PELAGICUM
1	DIA	COSCINODISCUS SPP.
1	DIA	CHAETOCEROS TETRASTICHON

2163 =TOTAL ABUNDANCE DIVERSITY = 4.48201

SPRING TRANSECT IV STATION 3 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
660	DIA	LEPTOCYLINDRUS DANICUS
460	DIA	UNIDENTIFIED PENNATE
460	DIA	NITZSCHIA DELICATISSIMA
240	DIA	NAVICULA SPP.
220	DIA	BACTERIASTRUM HYALINUM
120	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
80	DIA	ASTEROMPHALUS HEPTACTIS
60	BLU	TRICHODESMIUM SPP.
60	DIA	NITZSCHIA SPP.
60	DIA	CHAETOCEROS SPP.
60	DIN	UNIDENTIFIED DINOFLAGELLATES
40	DIA	NAVICULA WARMRIKAE
20	DIA	RHIZOSOLENIA STYLIFORMIS V. LONGISPIN
20	DIA	THALASSIOTHRIX LONGISSIMA
20	SIL	EBRIA ANTIQUA
1	DIN	PODOLAMPAS SPINIFERA
1	DIA	HEMIAULUS HAUCKII
1	DIN	CLADOPYXIS SPINOSA

2583 =TOTAL ABUNDANCE DIVERSITY = 3.15058

JULY TRANSECT II STATION 1 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
160	DIN	UNIDENTIFIED DINOFLAGELLATES
140	DIA	RHIZOSOLENIA ALATA V. ALATA
120	DIA	THALASSIOTHRIX FRAUNFELDII
100	DIA	RHIZOSOLENIA STOLTERFOTHII
80	DIN	GYMNODINIUM SPP.
60	DIA	NITZSCHIA SPP.
60	DIA	UNIDENTIFIED PENNATE
40	DIN	CERATIUM LONGINUM
40	DIN	AMPHIDINIUM ACUTISSIMUM
40	DIA	NAVICULA DISTANS
40	DIA	NITZSCHIA CLOSTERIUM
40	DIA	RHIZOSOLENIA STYLIFORMIS
40	DIA	UNIDENTIFIED CENTRIC
40	DIA	NAVICULA WARWRIKAE
20	DIN	GYMNODINIUM SP. 1
20	DIN	AMPHIDINIUM SPP.
20	DIA	CONSCINODISCUS RADIATUS
20	DIA	CHAETOCEROS PERUVIANUS
20	DIA	NITZSCHIA LONGISSIMA
20	DIA	RHIZOSOLENIA ALATA V. INDICA
20	DIA	RHIZOSOLENIA SPP.
1	DIN	PYROPHACUS HOROLOGIUM
1	DIN	CERATIUM HIRCUS

1142 =TOTAL ABUNDANCE DIVERSITY = 4.05845

JULY TRANSECT II STATION 1 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
740	DIA	NITZSCHIA SPP.
320	DIA	UNIDENTIFIED PENNATE
260	DIN	UNIDENTIFIED DINOFLAGELLATES
220	DIN	GONYAULAX MINIMA
160	DIA	NITZSCHIA CLOSTERIUM
140	DIA	RHIZOSOLENIA ALATA V. ALATA
100	DIN	GYMNODINIUM SP. 1
80	DIN	GONYAULAX SPP.
80	DIA	RHIZOSOLENIA ALATA V. INDICA
60	DIN	GYRODINIUM SPP.
40	DIN	PODOLAMPAS SPINIFERA
40	DIN	AMPHIDINIUM ACUTISSIMUM
40	DIA	CERATAULINA BERGONII
40	DIA	NAVICULA DISTANS
40	DIA	NAVICULA WARWRIKAE
20	DIN	PERIDINIUM TUBA
20	DIN	CERATIUM LONGINUM
20	DIA	HEMIAULUS SINENSIS
20	DIA	HEMIAULUS MEMBRANACEOUS
20	DIA	THALASSIOSIRA ROTULA
20	DIA	THALASSIOTHRIX FRAUNFELDII
1	DIN	PROROCENTRUM SCHILLERI
1	DIN	CERATIUM HIRCUS
1	DIA	CONSCINODISCUS RADIATUS
1	DIA	PLEUROSIGMA ANGULATUM
1	DIA	PLEUROSIGMA SP. 1 (SMALL)

2505 =TOTAL ABUNDANCE DIVERSITY = 3.52241

JULY TRANSECT II STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
380	DIA	NITZSCHIA SPP.
320	DIA	UNIDENTIFIED PENNATE
160	DIN	UNIDENTIFIED DINOFLAGELLATES
140	DIA	CHAETOCEROS SPP.
120	DIA	CHAETOCEROS LACINOSUS
80	DIA	LEPTOCYLINDRUS DANICUS
60	DIA	DACTYLIOSOLEN ANTARCTICUS
60	DIA	CHAETOCEROS PERUVIANUS
40	DIA	NAVICULA WARWRIKAE
40	DIA	RHIZOSOLENIA ALATA V. ALATA
40	DIA	THALASSIONEMA NITZSCHOIDES
40	DIA	UNIDENTIFIED CENTRIC
20	DIN	CERATIUM TEXES
20	DIN	GONYAULAX SPP.
20	DIN	GYMNODINIUM SPP.
20	DIN	CLADOPYXIS SPP.
20	DIN	CERATIUM RETICULATUM
20	DIN	GYMNODINIUM SP. 1
20	DIN	OXYTOXUM SPP.
20	DIA	HEMIAULUS MEMBRANACEOUS
20	DIA	NAVICULA SPP.
20	DIA	RHIZOSOLENIA CALCAR AVIS
20	DIA	THALASSIOTHRIX LONGISSIMA
20	DIA	BACTERIASTRUM SPP.

1720 =TOTAL ABUNDANCE DIVERSITY = 3.76527

JULY TRANSECT II STATION 2 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
980	DIA	NITZSCHIA SPP.
120	DIA	CHAETOCEROS COMPRESSUS
100	DIN	UNIDENTIFIED DINOFLAGELLATES
80	DIA	CHAETOCEROS SPP.
60	DIN	GYMNODINIUM SPP.
60	DIA	RHIZOSOLENIA ALATA V. ALATA
40	DIA	CHAETOCEROS DIVERSUS
40	DIA	CHAETOCEROS PERUVIANUS
40	DIA	DACTYLIOSOLEN ANTARCTICUS
20	DIN	AMPHIDINIUM ACUTISSIMUM
20	DIN	AMPHIDINIUM SPP.
20	DIA	LEPTOCYLINDRUS DANICUS
20	DIA	THALASSIOTHRIX LONGISSIMA
1	DIN	CLADOPYXIS SPP.
1	DIN	CERATIUM LONGINUM
1	DIA	NAVICULA WARWRIKAE
1	DIA	RHIZOSOLENIA STOLTERFOTHII
1	DIA	THALASSIONEMA NITZSCHOIDES
1	DIA	THALASSIOSIRA SUBTILIS

1646 =TOTAL ABUNDANCE DIVERSITY = 2.29060

JULY TRANSECT II STATION 3 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
460	DIA	THALASSIONEMA NITZSCHOIDES
400	DIA	UNIDENTIFIED PENNATE
120	DIN	UNIDENTIFIED DINOFLAGELLATES
120	DIA	CHAETOCEROS COMPRESSUS
80	DIA	NITZSCHIA SPP.
60	DIA	CHAETOCEROS DECIPIENS
40	DIA	CHAETOCEROS SPP.
40	DIN	GONYAULAX SPP.
20	DIN	AMPHIDINIUM ACUTISSIMUM
20	DIN	GYMNODINIUM SPP.
20	DIN	PROROCENTRUM MICANS
20	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
20	DIA	COSCINODISCUS CONCINNUS
1	DIN	CERATIUM KOFOIDII
1	BLU	TRICHODESMIUM SPP.

1422 =TOTAL ABUNDANCE DIVERSITY = 2.81153

JULY TRANSECT II STATION 3 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
220	DIN	OXYTOXUM SPP.
180	DIN	UNIDENTIFIED DINOFLAGELLATES
100	DIA	UNIDENTIFIED PENNATE
60	DIN	GYMNODINIUM SPP.
60	DIA	NITZSCHIA SPP.
60	DIA	NAVICULA SPP.
40	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA
20	DIN	AMPHIDINIUM ACUTISSIMUM
20	DIN	GONYAULAX MINIMA
20	DIN	CERATIUM KOFOIDII
20	DIN	PERIDINIUM CERASUS
20	DIN	PROROCENTRUM MICANS
20	DIA	THALASSIONEMA NITZSCHOIDES
20	DIA	RHIZOSOLENIA CALCAR AVIS
20	DIA	NITZSCHIA LONGISSIMA
20	DIA	CHAETOCEROS SPP.
20	DIA	CHAETOCEROS DECIPIENS
20	BLU	TRICHODESMIUM SPP.
1	DIN	GYMNODINIUM SPP.

941 =TOTAL ABUNDANCE DIVERSITY = 3.55901

FALL TRANSECT I STATION 1 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
78000	UTH	CRYSOPHYTE
24700	DIA	NITZSCHIA DELICATISSIMA
11000	DIA	NAVICULA WARMRIKAE
7800	DIA	CHAETOCEROS SPP.
5600	DIA	THALASSIONEMA NITZSCHOIDES
5400	DIA	CHAETOCEROS CURVISETUS
4000	DIA	CHAETOCEROS COMPRESSUS
3400	DIA	RHIZOSOLENIA SETIGERA
3400	DIA	UNIDENTIFIED PENNATE
3000	DIA	NITZSCHIA LONGISSIMA
3000	DIN	UNIDENTIFIED DINOFLAGELLATES
2800	DIA	CHAETOCEROS LACINOSUS
2400	DIA	LEPTOCYLINDRUS DANICUS
2000	DIA	RHIZOSOLENIA PUNGENS
1800	DIA	CERATAULINA COMPACTA
1800	DIA	NITZSCHIA SERIATA
1600	DIA	BACTERIASTRUM HYALINUM
1600	DIN	GYMNODINIUM SPP.
1400	DIA	CHAETOCEROS DECIPIENS
1400	DIA	NITZSCHIA CLOSTERIUM
1200	DIA	NITZSCHIA SPP.
1200	DIA	NAVICULA DISTANS
1200	DIA	LEPTOCYLINDRUS MINIMUS
1000	DIA	HEMIAULUS MEMBRANACEOUS
800	DIA	CHAETOCEROS LORENZIANUS
800	DIA	COSCINODISCUS SPP.
800	DIA	PLEUROSIGMA STRIGOSUM
800	DIA	THALASSIOTHRIX LONGISSIMA
600	DIA	PLEUROSIGMA ANGULATUM
600	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
600	DIA	BIDDULPHIA CHINENSIS
600	DIA	PLEUROSIGMA MARINUM
400	DIA	COSCINODISCUS CONCINNUS
400	DIA	COSCINODISCUS RADIATUS
400	DIA	NAVICULA SPP.
400	DIA	NAVICULA MEMBRANACEA
400	DIN	PERIDINIUM CRASSIPES
400	DIA	RHIZOSOLENIA ROBUSTA
400	DIA	RHIZOSOLENIA STYLIFORMIS V. LONGISPIN
200	DIA	CHAETOCEROS PERUVIANUS
200	DIN	CERATIUM LONGINUM
200	DIN	PROROCENTRUM MICANS
200	DIN	PYROPHACUS HOROLOGIUM
200	BLU	TRICHODESMIUM SPP.
200	DIN	CERATIUM LONGISSIMUM
200	DIA	PLEUROSIGMA SPP.
200	DIA	PLEUROSIGMA SP. 1 (SMALL)
200	DIA	UNIDENTIFIED CENTRIC

FALL TRANSECT I STATION 1 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
213600	UTH	CRYSOPHYTE
60000	DIA	NITZSCHIA DELICATISSIMA
20000	DIA	NAVICULA WARMRIKAE
13600	DIA	CHAETOCEROS SPP.
11600	DIA	CHAETOCEROS COMPRESSUS
10000	DIA	CHAETOCEROS CURVISETUS
7600	DIA	UNIDENTIFIED PENNATE
6800	DIA	NITZSCHIA SERIATA
6400	DIA	LEPTOCYLINDRUS MINIMUS
6000	DIA	RHIZOSOLENIA SETIGERA
4000	DIA	NITZSCHIA LONGISSIMA
3600	DIA	THALASSIONEMA NITZSCHOIDES
2800	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
2400	DIA	RHIZOSOLENIA PUNGENS
2000	DIA	CERATAULINA COMPACTA
1600	DIA	DIPLONEIS SPP.
1600	DIA	NITZSCHIA SPP.
1600	DIA	NITZSCHIA CLOSTERIUM
1600	DIA	CHAETOCEROS GLANDAZII
1600	DIA	CHAETOCEROS PERUVIANUS
1200	DIA	NAVICULA DISTANS
1200	DIN	GYMNODINIUM SPP.
1200	DIA	PLEUROSIGMA ANGULATUM
1200	DIA	PLEUROSIGMA SPP.
1200	DIA	RHIZOSOLENIA STYLIFORMIS V. LONGISPIN
800	DIA	COSCINODISCUS RADIATUS
800	DIA	COSCINODISCUS SPP.
800	DIA	NAVICULA SPP.
800	DIN	UNIDENTIFIED DINOFLAGELLATES
800	BLU	TRICHODESMIUM SPP.
800	DIA	BIDDULPHIA CHINENSIS
800	DIA	THALASSIOTHRIX LONGISSIMA
400	DIA	NAVICULA MEMBRANACEA
400	DIN	CERATIUM FURCA
400	DIN	CERATIUM LONGINUM
400	DIN	GYMNODINIUM SP. 1
400	DIA	PLEUROSIGMA MARINUM
400	DIA	PLEUROSIGMA STRIGOSUM
400	DIA	CHAETOCEROS DECIPIENS
1	DIN	PROROCENTRUM MICANS
1	DIA	BACTERIASTRUM HYALINUM
1	DIA	PLEUROSIGMA SP. 1 (SMALL)
1	DIA	RHIZOSOLENIA CALCAR AVIS
1	DIA	CHAETOCEROS LACINOSUS

392805 =TOTAL ABUNDANCE DIVERSITY = 2.72030

1	DIA	CHAETOCEROS GLANDAZII
1	DIA	CHAETOCEROS FURCELLATUS
1	DIA	CHAETOCEROS DIVERSUS
1	DIA	AMPHIPRORA SPP.
1	DIA	DIPLONEIS SPP.
1	DIA	COSCINODISCUS STELLARIS
1	DIA	LITHODESMIUM UNDULATUM
1	DIN	FRAGILIDIUM
1	DIN	DINASTRIDIUM SPP.
1	DIN	CERATIUM OCEANICUM
1	DIN	GONYAULAX SPP.
1	DIN	GYMNODINIUM SP. 1
1	DIN	CERATIUM FURCA
1	DIA	RHIZOSOLENIA CALCAR AVIS
1	DIA	THALASSIOSIRA SPP.
1	DIA	THALASSIOTHRIX FRAUNFELDII

180916 =TOTAL ABUNDANCE DIVERSITY = 3.48011

FALL TRANSECT I STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
11200	DIA	CHAETOCEROS SEIRACANTHUS
7400	DIA	CHAETOCEROS SPP.
6600	DIA	BACTERIASTRUM HYALINUM
4400	DIA	CHAETOCEROS DECIPIENS
4000	DIA	CHAETOCEROS LACINOSUS
3800	DIA	CHAETOCEROS DIDYMUS V. ANGLICA
3200	DIA	NITZSCHIA DELICATISSIMA
2600	DIA	CHAETOCERUS COMPRESSUS
2200	DIA	LEPTOCYLINDRUS MINIMUS
2000	DIN	UNIDENTIFIED DINOFLAGELLATES
1400	DIA	CHAETOCEROS LORENZIANUS
1200	OTH	CRYSOPHYTE
1200	DIA	CHAETOCEROS AFFINIS
1000	DIN	PYROPHACUS HOMOLOGIUM
1000	DIA	DACTYLIOSOLEN MEDITERRANEUS
1000	DIA	THALASSIOTHRIX FRAUNFELDII
1000	DIA	UNIDENTIFIED PENNATE
1000	DIA	CHAETOCEROS CURVISETUS
800	DIA	RHIZOSOLENIA STYLIFORMIS V. LONGISPIN
600	DIA	LEPTOCYLINDRUS DANICUS
600	DIA	NITZSCHIA CLOSTERIUM
600	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
400	DIA	UNIDENTIFIED CENTRIC
200	DIN	PROROCENTRUM COMPRESSUM
200	DIN	GYMNODINIUM SPP.
200	DIN	GYMNODINIUM RHOMBOIDES
200	DIA	NITZSCHIA LONGISSIMA
200	DIA	PLEUROSIGMA SPP.
1	DIN	GYMNODINIUM SPLENDENS
1	DIA	COSCINODISCUS SPP.

60202 =TOTAL ABUNDANCE DIVERSITY = 4.03461

FALL TRANSECT I STATION 2 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
600	DIA	BACTERIASTRUM HYALINUM
480	DIA	THALASSIONEMA NITZSCHOIDES
420	DIA	UNIDENTIFIED PENNATE
320	DIN	UNIDENTIFIED DINOFLAGELLATES
260	DIN	GYMNODINIUM SPP.
180	DIA	NITZSCHIA DELICATISSIMA
160	DIN	AMPHIDINIUM SPP.
120	DIA	CHAETOCEROS COARCTICUS
120	DIA	CHAETOCEROS SEIRACANTHUS
100	DIA	RHIZOSOLENIA STOLTERFOTHII
80	DIN	GONYAULAX MINIMA
80	DIA	RHIZOSOLENIA ALATA V. ALATA
80	DIA	CHAETOCEROS GLANDAZII
80	DIA	CHAETOCEROS DADAYI
60	DIA	NITZSCHIA SPP.
60	DIA	RHIZOSOLENIA CALCAR AVIS
60	DIA	UNIDENTIFIED CENTRIC
60	DIA	THALASSIOTHRIX LONGISSIMA
60	DIA	CHAETOCEROS SPP.
60	DIA	CHAETOCEROS DECIPIENS
40	DIA	CHAETOCEROS DIVERSUS
40	DIA	CHAETOCEROS DIDYMUS V. ANGLICA
20	DIN	CERATIUM KOFOIDII
20	DIA	RHIZOSOLENIA ALATA V. INDICA
20	DIA	RHIZOSOLENIA FRAGILLISSIMA
20	DIA	HEMIAULUS HAUCKII
20	DIA	DIPLONEIS SPP.

3620 =TOTAL ABUNDANCE DIVERSITY = 4.07411

FALL TRANSECT I STATION 3 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
960	DIA	UNIDENTIFIED PENNATE
640	DIA	NITZSCHIA DELICATISSIMA
400	DIN	UNIDENTIFIED DINOFLAGELLATES
220	DIA	THALASSIONEMA NITZSCHUIDES
200	DIA	LEPTOCYLINDRUS DANICUS
120	DIA	FRAGILARIA SPP.
120	DIA	RHIZOSOLENIA ALATA V. ALATA
80	DIA	CHAETOCEROS LORENZIANUS
60	DIN	AMPHIDINIUM SPP.
60	DIA	CHAETOCEROS SPP.
40	DIN	AMPHIDINIUM ACUTISSIMUM
40	DIN	GONYAULAX MINIMA
40	DIA	CHAETOCEROS DECIPIENS
40	DIA	HEMIAULUS SINENSIS
40	DIA	RHIZOSOLENIA PUNGENS
20	DIN	CERATIUM KOFOIDII
20	DIN	GYMNODINIUM SPP.
20	DIN	PERIDINIUM PALLIDUM
20	DIA	NAVICULA WARWRIKAE
20	DIA	COSCINODISCUS SPP.
20	DIA	RHIZOSOLENIA STOLTERFOTHII
20	DIA	PLEUROSIGMA SPP.
1	DIN	ORNITHOCEROS STEINII

3201 =TOTAL ABUNDANCE DIVERSITY = 3.30346

FALL TRANSECT I STATION 3 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
600	DIA	UNIDENTIFIED PENNATE
140	DIA	NITZSCHIA SPP.
120	DIN	AMPHIDINIUM ACUTISSIMUM
80	DIA	COSCINODISCUS SPP.
80	DIA	NAVICULA SPP.
60	DIN	GYMNODINIUM SPP.
60	DIA	CHAETOCEROS DIDYMUS V. ANGLICA
60	DIA	NITZSCHIA DELICATISSIMA
40	DIN	AMPHIDINIUM SPP.
40	DIN	ORNITHOCEROS STEINII
20	DIN	NOCTILUCA SCINTILLANS
20	DIN	UNIDENTIFIED DINOFLAGELLATES
20	DIN	CERATIUM FUSUS
20	DIA	RHIZOSOLENIA ALATA V. ALATA
20	DIA	RHIZOSOLENIA CALCAR AVIS
20	SIL	DISTEPHANUS SPECULUM

1400 =TOTAL ABUNDANCE DIVERSITY = 3.03956

FALL TRANSECT II STATION 1 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
4105	DIN	GONYAULAX MINIMA
2488	DIN	UNIDENTIFIED DINOFLAGELLATES
1089	DIA	UNIDENTIFIED PENNATE
964	DIA	PLEUROSIGMA SP. 1 (SMALL)
902	DIN	GYMNODINIUM SPP.
591	DIA	NITZSCHIA SPP.
435	DIA	BACTERIASTRUM HYALINUM
342	DIA	NITZSCHIA CLOSTERIUM
280	DIA	DIPLONEIS SPP.
280	DIA	NAVICULA DISTANS
249	DIN	AMPHIDINIUM SPP.
249	DIA	UNIDENTIFIED CENTRIC
218	DIA	THALASSIOSIRA SUBTILIS
155	DIN	GYMNODINIUM SP. 1
155	DIA	RHIZOSOLENIA CALCAR AVIS
155	DIA	COSCINODISCUS CONCINNUS
124	DIA	THALASSIONEMA NITZSCHOIDES
93	DIN	AMPHIDINIUM ACUTISSIMUM
93	DIA	RHIZOSOLENIA ROBUSTA
93	DIA	NITZSCHIA PANDURIFORMIS
93	DIA	NITZSCHIA DELICATISSIMA
93	DIA	COSCINODISCUS RADIATUS
62	DIA	PLEUROSIGMA ANGULATUM
62	DIA	GUINARDIA FLACCIDA
62	DIA	COSCINODISCUS SPP.
31	DIN	DINASTRIDIUM SPP.
31	DIA	PLEUROSIGMA SPP.
31	DIA	PLEUROSIGMA MARINUM
31	DIA	NAVICULA SPP.

13556 =TOTAL ABUNDANCE DIVERSITY = 3.54600

FALL TRANSECT II STATION 1 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
11189	DIN	GONYAULAX MINIMA
2797	DIA	UNIDENTIFIED PENNATE
2131	DIA	NITZSCHIA SPP.
2065	DIN	UNIDENTIFIED DINOFLAGELLATES
932	DIA	PLEUROSIGMA SP. 1 (SMALL)
866	DIA	NAVICULA DISTANS
799	DIN	GYMNODINIUM SPP.
667	DIA	THALASSIOSIRA SPP.
667	DIA	BACTERIASTRUM HYALINUM
667	DIA	DIPLONEIS SPP.
533	DIN	GYRODINIUM SPP.
533	DIA	CHAETOCEROS CURVISETUS
466	DIA	COSCINOSIRA SPP.
399	DIA	UNIDENTIFIED CENTRIC
399	DIA	HEMIAULUS MEMBRANACEOUS
333	DIN	AMPHIDINIUM SPP.
333	DIA	NITZSCHIA CLOSTERIUM
266	DIA	NITZSCHIA PANDURIFORMIS
266	DIA	RHIZOSOLENIA CALCAR AVIS
266	DIA	NAVICULA SPP.
266	DIA	COSCINODISCUS RADIATUS
200	DIA	COSCINODISCUS CONCINNUS
133	DIN	PROROCENTRUM MICANS
133	DIA	PLEUROSIGMA MARINUM
133	DIA	NITZSCHIA DELICATISSIMA
133	DIA	RHIZOSOLENIA ALATA V. ALATA
67	DIN	DINASTRIDIUM SPP.
67	DIN	AMPHIDINIUM ACUTISSIMUM
67	DIN	PERIDINIUM SUBPYRIFORME
67	DIA	PLEUROSIGMA ANGULATUM
67	DIA	PLEUROSIGMA STRIGOSUM
67	DIA	NITZSCHIA LONGISSIMA
67	DIA	PLEUROSIGMA SPP.

28041 =TOTAL ABUNDANCE DIVERSITY = 3.51550

FALL TRANSECT II STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
260	DIA	UNIDENTIFIED PENNATE
240	DIN	UNIDENTIFIED DINOFLAGELLATES
180	DIN	GYMNODINIUM SPP.
160	DIN	GONYAULAX MINIMA
140	DIA	RHIZOSOLENIA ALATA
80	DIN	AMPHIDINIUM SPP.
80	DIA	NITZSCHIA SPP.
80	DIA	THALASSIONEMA NITZSCHOIDES
60	DIA	CHAETOCEROS SPP.
60	DIA	CHAETOCEROS TETRASTICHON
40	DIA	NITZSCHIA DELICATISSIMA
40	DIA	FRAGILARIA SPP.
20	DIN	AMPHIDINIUM ACUTISSIMUM
20	DIA	NITZSCHIA CLOSTERIUM
20	DIA	NAVICULA SPP.
20	DIA	HEMIAULUS HAUCKII

1500 =TOTAL ABUNDANCE DIVERSITY = 3.55716

FALL TRANSECT II STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
460	DIN	GYMNODINIUM SPP.
260	DIN	GONYAULAX MINIMA
220	DIN	UNIDENTIFIED DINOFLAGELLATES
120	DIA	NITZSCHIA SPP.
100	DIA	RHIZOSOLENIA STOLTERFOTHII
100	DIA	CHAETOCEROS DENSUS
60	DIN	CERATIUM HIRCUS
60	DIA	UNIDENTIFIED PENNATE
60	DIA	COSCINODISCUS SPP.
60	DIA	CHAETOCEROS SPP.
40	DIA	NITZSCHIA DELICATISSIMA

1540 =TOTAL ABUNDANCE DIVERSITY = 3.02569

FALL TRANSECT II STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
400	DIN	GYMNODINIUM SPP.
350	DIN	GONYAULAX MINIMA
100	DIN	UNIDENTIFIED DINOFLAGELLATES
100	DIA	UNIDENTIFIED CENTRIC
75	DIA	NITZSCHIA SPP.
50	DIN	GYRODINIUM SPP.
50	DIA	UNIDENTIFIED PENNATE
25	DIN	PODOLAMPAS SPINIFERA

1150 =TOTAL ABUNDANCE DIVERSITY = 2.43938

FALL TRANSECT II STATION 2 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
420	DIA	NITZSCHIA DELICATISSIMA
340	DIN	UNIDENTIFIED DINOFLAGELLATES
260	DIA	NITZSCHIA SPP.
220	DIN	AMPHIDINIUM SPP.
220	DIA	UNIDENTIFIED PENNATE
200	DIN	GYMNODINIUM SPP.
180	DIN	GONYAULAX MINIMA
120	DIN	AMPHIDINIUM ACUTISSIMUM
120	DIA	THALASSIONEMA NITZSCHOIDES
100	DIA	CHAETOCEROS DECIPIENS
60	DIA	UNIDENTIFIED CENTRIC
40	DIN	DINASTRIDIUM SPP.
40	DIN	GYMNODINIUM SP. 1
40	DIN	PODOLAMPAS SPINIFERA
40	DIA	RHIZOSOLENIA ALATA
40	DIA	HEMIAULUS HAUCKII
40	DIA	FRAGILARIA SPP.
40	DIA	CHAETOCEROS SIMPLEX
40	DIA	CHAETOCEROS SPP.
20	DIN	CERATIUM KOFOIDII
20	DIN	PERIDINIUM SPP.
20	DIA	RHIZOSOLENIA HEBETATA V. HIEMALIS
20	DIA	RHIZOSOLENIA DELICATULA

2640 =TOTAL ABUNDANCE DIVERSITY = 3.93673

FALL TRANSECT II STATION 2 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
800	DIN	GYMNODINIUM SPP.
500	DIN	UNIDENTIFIED DINOFLAGELLATES
250	DIA	CHAETOCEROS SPP.
150	DIN	GONYAULAX MINIMA
150	DIA	ASTEROMPHALUS HEPTACTIS
150	DIA	UNIDENTIFIED PENNATE
150	DIA	NITZSCHIA DELICATISSIMA
100	DIA	THALASSIONEMA NITZSCHOIDES
100	DIA	NITZSCHIA SPP.
100	DIA	COSCINODISCUS LINEATUS
50	DIA	RHIZOSOLENIA ALATA V. ALATA

2500 =TOTAL ABUNDANCE DIVERSITY = 2.97181

FALL TRANSECT II STATION 2 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
1000	DIN	GYMNODINIUM SPP.
450	DIN	UNIDENTIFIED DINOFLAGELLATES
150	DIN	PODOLAMPAS SPINIFERA
150	DIA	CHAETOCEROS DECIPIENS
100	DIN	GYMNODINIUM SP. 1
100	DIA	NITZSCHIA SPP.
50	DIN	PROROCENTRUM SPP.
50	DIN	PYROPHACUS HOROLOGIUM
50	DIN	AMPHIDINIUM ACUTISSIMUM
50	DIA	UNIDENTIFIED PENNATE

2150 =TOTAL ABUNDANCE DIVERSITY = 2.44245

FALL TRANSECT II STATION 3 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
560	DIA	UNIDENTIFIED PENNATE
400	DIN	GYMNODINIUM SPP.
360	DIA	NITZSCHIA SPP.
360	DIN	UNIDENTIFIED DINOFLAGELLATES
120	DIN	AMPHIDINIUM SPP.
120	DIN	AMPHIDINIUM ACUTISSIMUM
80	DIA	STRIATELLA INTERRUPTA
80	DIA	HEMIAULUS SINENSIS
60	DIA	LEPTOCYLINDRUS DANICUS
40	DIA	CHAETOCEROS SPP.
40	DIA	HEMIAULUS MEMBRANACEOUS
40	DIA	UNIDENTIFIED CENTRIC
20	DIN	CERATIUM KOFOIDII
20	DIN	DINASTRIDIUM SPP.
20	DIA	RHIZOSOLENIA HEBETATA V. HIEMALIS
20	DIA	RHIZOSOLENIA CALCAR AVIS

2360 =TOTAL ABUNDANCE DIVERSITY = 3.20500

FALL TRANSECT II STATION 3 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
640	DIN	UNIDENTIFIED DINOFLAGELLATES
620	DIA	UNIDENTIFIED PENNATE
420	DIA	NITZSCHIA SPP.
180	DIA	RHIZOSOLENIA ALATA V. ALATA
120	DIN	GYMNODINIUM SPP.
80	DIN	AMPHIDINIUM ACUTISSIMUM
80	DIA	RHIZOSOLENIA CALCAR AVIS
60	DIA	NITZSCHIA DELICATISSIMA
60	DIA	NAVICULA SPP.
60	DIA	CHAETOCEROS TETRASTICHON
40	DIA	NAVICULA WAWRIKAE
40	DIA	CHAETOCEROS PERUVIANUS
40	DIA	CHAETOCEROS DENSUS
20	DIN	GONYAULAX MINIMA
20	DIN	PERIDINIUM SPP.
20	DIN	PODOLAMPAS SPINIFERA
20	DIN	PROROCENTRUM COMPRESSUM
20	DIA	THALASSIOTHRIX FRAUNFELDII
20	DIA	RHIZOSOLENIA HEBETATA V. HIEMALIS

2560 =TOTAL ABUNDANCE DIVERSITY = 3.20748

FALL TRANSECT III STATION 1 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
29700	DIA	RHIZOSOLENIA ALATA
4200	DIA	CHAETOCEROS DENSUS
3900	DIA	NITZSCHIA DELICATISSIMA
1500	DIN	UNIDENTIFIED DINOFLAGELLATES
1300	DIA	NITZSCHIA SERIATA
1300	DIA	UNIDENTIFIED PENNATE
1000	DIN	GONYAULAX MINIMA
900	DIA	THALASSIOTHRIX FRAUNFELDII
900	DIA	CERATAULINA COMPACTA
700	DIA	NITZSCHIA SPP.
600	DIA	RHIZOSOLENIA PUNGENS
400	DIA	PLEUROSIGMA SPP.
400	DIA	RHIZOSOLENIA IMBRICATA
400	DIA	CHAETOCEROS COARCTICUS
300	DIN	GYMNODINIUM SPP.
300	DIA	PLEUROSIGMA SP. 1 (SMALL)
300	DIA	RHIZOSOLENIA SETIGERA
300	DIA	BACTERIASTRUM HYALINUM
300	DIA	CHAETOCEROS BREVIS
200	DIA	RHIZOSOLENIA ALATA V. INDICA
200	DIA	CHAETOCEROS DECIPIENS
200	DIA	CHAETOCEROS SPP.
200	DIA	NITZSCHIA CLOSTERIUM
100	DIN	PERIDINIUM SPP.
100	DIN	AMPHIDINIUM ACUTISSIMUM
100	DIA	NITZSCHIELLA INCERTA
100	DIA	RHIZOSOLENIA CASTRACANEI
100	DIA	NITZSCHIA LONGISSIMA
100	DIA	THALASSIOTHRIX LONGISSIMA
100	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
100	DIA	DACTYLIOSOLEN MEDITERRANEUS
100	DIA	GUINARDIA FLACCIDA
100	DIA	HEMIAULUS SINENSIS
100	DIA	HEMIAULUS MEMBRANACEOUS
100	DIA	NAVICULA DISTANS
100	BLU	TRICHODESMIUM SPP.

54800 =TOTAL ABUNDANCE DIVERSITY = 2.67759

FALL TRANSECT III STATION 1 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
43200	DIA	RHIZOSOLENIA ALATA
5200	DIA	NITZSCHIA DELICATISSIMA
5000	DIN	UNIDENTIFIED DINOFLAGELLATES
2800	DIA	CHAETOCEROS DENSUS
2000	DIN	GONYAULAX MINIMA
1800	DIA	CHAETOCEROS COARCTICUS
1200	DIA	UNIDENTIFIED PENNATE
1000	DIA	NITZSCHIA SPP.
1000	DIA	PLEUROSIGMA SPP.
1000	DIA	CHAETOCEROS SPP.
1000	DIA	LEPTOCYLINDRUS DANICUS
800	DIA	CHAETOCEROS COMPRESSUS
800	DIA	NAVICULA WARWRIKAE
800	DIA	CLIMACODIUM BICONCAVUM
800	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
600	DIN	GYMNODINIUM SPP.
400	DIN	PROROCENTRUM MICANS
400	DIA	BACTERIASTRUM HYALINUM
400	DIA	PLEUROSIGMA SP. 1 (SMALL)
400	DIA	RHIZOSOLENIA SETIGERA
400	DIA	CHAETOCEROS DIVERSUS
400	DIA	HEMIAULUS MEMBRANACEOUS
200	DIA	THALASSIOTHRIX MEDITERRANES
200	DIA	NAVICULA SPP.
200	DIA	NITZSCHIA CLOSTERIUM
200	DIA	PLEUROSIGMA ANGULATUM
200	DIA	RHIZOSOLENIA PUNGENS
200	DIA	RHIZOSOLENIA ROBUSTA
200	DIA	UNIDENTIFIED CENTRIC
200	DIA	COSCINODISCUS RADIATUS
200	DIA	COSCINODISCUS SPP.
200	BLU	TRICHODESMIUM SPP.

73400 =TOTAL ABUNDANCE DIVERSITY = 2.69544

FALL TRANSECT III STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
2750	DIA	RHIZOSOLENIA ALATA
2000	BLU	TRICHODESMIUM SPP.
1275	DIA	UNIDENTIFIED PENNATE
650	DIN	UNIDENTIFIED DINOFLAGELLATES
625	DIA	NITZSCHIA SPP.
575	DIA	NITZSCHIA DELICATISSIMA
425	DIN	GONYAULAX MINIMA
375	DIN	GYMNODINIUM SPP.
350	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
325	DIA	DACTYLIOSOLEN MEDITERRANEUS
275	DIA	CHAETOCEROS DENSUS
200	DIN	AMPHIDINIUM SPP.
200	DIA	BACTERIASTRUM HYALINUM
150	DIA	CHAETOCEROS CURVISETUS
125	DIA	CHAETOCEROS SPP.
100	DIN	PROROCENTRUM MICANS
100	DIN	DINASTRIDIUM SPP.
100	DIN	PROROCENTRUM COMPRESSUM
100	DIA	CHAETOCEROS PSEUDOCURVISETUS
100	DIA	THALASSIOTHRIX LONGISSIMA
100	DIA	BACTERIASTRUM ELONGATUM
100	DIA	LEPTOCYLINDRUS MINIMUS
75	DIA	THALASSIONEMA NITZSCHOIDES
75	DIA	CHAETOCEROS DECIPIENS
75	DIA	HEMIAULUS SINENSIS
75	DIA	NITZSCHIA SERIATA
50	DIN	GONYAULAX POLYGRAMMA
50	DIN	AMPHIDINIUM ACUTISSIMUM
50	DIA	CHAETOCEROS DIVERSUS
50	DIA	CHAETOCEROS TETRASTICHON
50	DIA	RHIZOSOLENIA IMBRICATA
50	DIA	RHIZOSOLENIA CALCAR AVIS
25	DIN	PODOLAMPAS SPINIFERA
25	DIN	PERIDINIUM LUNGIPES
25	DIN	PERIDINIUM RECTUM
25	DIN	PROROCENTRUM SPP.
25	DIN	PERIDINIUM TUBA
25	DIA	RHIZOSOLENIA ALATA V. INDICA
25	DIA	NITZSCHIELLA INCERTA
25	DIA	NAVICULA HARRIKAE

11800 =TOTAL ABUNDANCE DIVERSITY = 3.98874

FALL TRANSECT III STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
1700	DIA	RHIZOSOLENIA ALATA V. ALATA
850	DIN	GYMNODINIUM SPP.
800	DIA	UNIDENTIFIED PENNATE
650	DIN	GONYAULAX MINIMA
600	DIN	UNIDENTIFIED DINOFLAGELLATES
450	DIA	THALASSIONEMA NITZSCHOIDES
400	DIA	NITZSCHIA DELICATISSIMA
400	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
250	DIN	GYMNODINIUM SP. 1
250	DIA	CHAETOCEROS DENSUS
200	DIA	NITZSCHIA SPP.
200	DIA	CHAETOCEROS SPP.
150	DIN	PERIDINIUM SPP.
100	DIA	NITZSCHIA LONGISSIMA
100	DIA	COSCINODISCUS ASTEROMPHALUS
100	DIA	CHAETOCEROS PERUVIANUS
50	DIN	PROROCENTRUM MICANS

7250 =TOTAL ABUNDANCE DIVERSITY = 3.57141

FALL TRANSECT III STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
1550	DIA	RHIZOSOLENIA ALATA V. ALATA
1100	DIN	GYMNODINIUM SPP.
850	DIN	UNIDENTIFIED DINOFLAGELLATES
650	DIA	UNIDENTIFIED PENNATE
550	DIA	THALASSIONEMA NITZSCHOIDES
500	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
450	DIA	CHAETOCEROS COMPRESSUS
400	DIN	GONYAULAX MINIMA
300	DIA	NITZSCHIA SPP.
200	DIA	NITZSCHIA DELICATISSIMA
200	DIA	COSCINODISCUS ASTEROMPHALUS
150	DIA	PLEUROSIGMA SP. 1 (SMALL)
150	DIA	CHAETOCEROS SPP.
100	DIA	UNIDENTIFIED CENTRIC
50	DIN	GYMNODINIUM SP. 1
50	DIN	AMPHIDINIUM ACUTISSIMUM
50	DIA	RHIZOSOLENIA CALCAR AVIS

7300 =TOTAL ABUNDANCE DIVERSITY = 3.52372

FALL TRANSECT III STATION 2 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
1320	DIA	UNIDENTIFIED PENNATE
340	DIA	NITZSCHIA SPP.
300	DIN	UNIDENTIFIED DINOFLAGELLATES
260	DIN	AMPHIDINIUM ACUTISSIMUM
200	DIN	GYMNODINIUM SPP.
160	DIA	CHAETOCEROS COMPRESSUS
140	DIN	GONYAULAX MINIMA
140	DIA	RHIZOSOLENIA ALATA
140	DIA	NITZSCHIA DELICATISSIMA
100	DIN	AMPHIDINIUM SPP.
100	DIA	LEPTOCYLINDRUS DANICUS
80	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
60	DIN	CERATIUM KOFOIDII
60	DIA	RHIZOSOLENIA CALCAR AVIS
40	DIA	THALASSIOTHRIX LONGISSIMA
20	DIN	GONYAULAX POLYGRAMMA
20	DIN	PYROCYSTIS LUNULA
20	SIL	DICTYOCHA FIBULA
20	DIA	COSCINODISCUS SPP.
20	DIA	UNIDENTIFIED CENTRIC
20	DIA	NAVICULA WARWRIKAE
20	DIA	FRAGILARIA SPP.

3580 =TOTAL ABUNDANCE DIVERSITY = 3.38870

ABUNDANCE CELLS/LITER	CLASS	SPECIES
450	DIN	UNIDENTIFIED DINOFLAGELLATES
350	DIA	SKELETONEMA COSTATUM
350	DIA	NITZSCHIA SPP.
300	DIN	GYMNODINIUM SPP.
300	DIA	UNIDENTIFIED PENNATE
150	DIN	GONYAULAX MINIMA
150	DIA	DACTYLIOSOLEN MEDITERRANEUS
150	DIA	RHIZOSOLENIA ALATA V. ALATA
150	BLU	TRICHODESMIUM SPP.
100	DIN	AMPHIDINIUM ACUTISSIMUM
100	DIN	GYMNODINIUM SP. 1
100	DIA	CHAETOCEROS SPP.
100	DIA	NITZSCHIA DELICATISSIMA
50	DIA	RHIZOSOLENIA CALCAR AVIS

2800 =TOTAL ABUNDANCE DIVERSITY = 3.56555

ABUNDANCE CELLS/LITER	CLASS	SPECIES
1100	DIA	SKELETONEMA COSTATUM
650	DIN	UNIDENTIFIED DINOFLAGELLATES
550	DIA	NITZSCHIA SPP.
250	DIA	DACTYLIOSOLEN MEDITERRANEUS
200	DIN	GONYAULAX MINIMA
200	DIA	CHAETOCEROS SPP.
200	DIA	RHIZOSOLENIA CALCAR AVIS
150	DIN	GYMNODINIUM SPP.
150	DIA	NITZSCHIA DELICATISSIMA
150	DIA	COSCINODISCUS RADIATUS
100	DIN	AMPHIDINIUM SPP.
100	DIA	NITZSCHIA CLOSTERIUM
100	DIA	LAUDERIA BOREALIS
100	DIA	CHAETOCEROS PERUVIANUS
100	DIA	RHIZOSOLENIA ALATA V. ALATA
100	DIA	UNIDENTIFIED PENNATE
100	SIL	DICTYOCHA FIBULA
50	DIN	PROROCENTRUM SPP.
50	DIA	RHIZOSOLENIA ROBUSTA

4400 =TOTAL ABUNDANCE DIVERSITY = 3.64568

FALL TRANSECT III STATION 3 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
520	DIN	UNIDENTIFIED DINOFLAGELLATES
380	DIA	UNIDENTIFIED PENNATE
220	DIA	NITZSCHIA DELICATISSIMA
180	DIN	GONYAULAX MINIMA
180	DIA	NITZSCHIA SPP.
140	DIA	CHAETOCEROS DECIPIENS
120	DIN	GYMNODINIUM SPP.
100	DIN	AMPHIDINIUM ACUTISSIMUM
100	DIA	RHIZOSOLENIA ALATA
80	DIA	THALASSIONEMA NITZSCHOIDES
60	DIA	BACTERIASTRUM BICONICUM
40	DIN	CERATIUM FURCA
20	DIN	PODOLAMPAS SPINIFERA
20	DIN	GYMNODINIUM SP. 1
20	DIN	DINASTRIDIUM SPP.
20	DIN	CERATIUM PENTAGONUM
20	DIN	GONYAULAX SPP.
20	DIA	RHIZOSOLENIA CALCAR AVIS
20	DIA	CHAETOCEROS DADAYI
20	DIA	CHAETOCEROS PERUVIANUS
20	DIA	NAVICULA SPP.

2300 =TOTAL ABUNDANCE DIVERSITY = 3.62392

FALL TRANSECT III STATION 3 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
540	DIN	UNIDENTIFIED DINOFLAGELLATES
540	DIA	UNIDENTIFIED PENNATE
260	DIN	GONYAULAX MINIMA
200	DIN	GYMNODINIUM SPP.
200	DIA	NITZSCHIA DELICATISSIMA
140	DIN	AMPHIDINIUM ACUTISSIMUM
100	DIN	AMPHIDINIUM SPP.
80	DIA	NITZSCHIA SPP.
80	DIA	DACTYLIOSOLEN MEDITERRANEUS
60	DIA	FRAGILARIA SPP.
40	DIA	RHIZOSOLENIA ALATA
40	DIA	CHAETOCEROS DENSUS
40	DIA	CHAETOCEROS DECIPIENS
40	DIA	THALASSIONEMA NITZSCHOIDES
20	DIA	NITZSCHIA CLOSTERIUM
20	DIA	RHIZOSOLENIA STOLTERFOTHII
20	DIA	RHIZOSOLENIA HERETATA V. HIEMALIS
20	BLU	TRICHODESMIUM SPP.

2440 =TOTAL ABUNDANCE DIVERSITY = 3.40092

FALL TRANSECT IV STATION 1 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
560	DIN	UNIDENTIFIED DINOFLAGELLATES
260	DIA	UNIDENTIFIED PENNATE
200	DIN	AMPHIDINIUM ACUTISSIMUM
180	DIA	NITZSCHIA SPP.
160	DIA	CHAETOCEROS COARCTICUS
140	DIN	GYMNODINIUM SPP.
140	DIN	AMPHIDINIUM SPP.
120	DIA	CHAETOCEROS DENSUS
60	DIA	RHIZOSOLENIA ALATA
60	DIA	NITZSCHIA LONGISSIMA
60	DIA	NITZSCHIA CLOSTERIUM
40	DIN	GYMNODINIUM SP. 1
40	DIA	PLEUROSIGMA SPP.
40	DIA	CHAETOCEROS CURVISETUS
40	DIA	COSCINODISCUS ASTEROMPHALUS
40	DIA	THALASSIONEMA NITZSCHUIDES
20	DIN	DINASTRIDIUM SPP.
20	DIN	DINOPHYSIS ARCTICA
20	DIN	CERATIUM PENTAGONUM
20	DIA	PLEUROSIGMA SP. 1 (SMALL)
20	DIA	NITZSCHIA DELICATISSIMA
20	DIA	RHIZOSOLENIA HEBETATA V. HIEMALIS
20	DIA	HEMIAULUS MEMBRANACEOUS
20	DIA	NAVICULA SPP.
20	DIA	THALASSIOSIRA SUBTILIS

2320 =TOTAL ABUNDANCE DIVERSITY = 3.86837

FALL TRANSECT IV STATION 1 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
920	DIN	UNIDENTIFIED DINOFLAGELLATES
360	DIA	UNIDENTIFIED PENNATE
300	DIN	GYMNODINIUM SPP.
160	DIN	AMPHIDINIUM SPP.
140	DIN	GONYAULAX MINIMA
140	DIA	NITZSCHIA LONGISSIMA
120	DIN	AMPHIDINIUM ACUTISSIMUM
120	DIA	NITZSCHIA SPP.
80	DIA	NITZSCHIA DELICATISSIMA
80	DIA	CHAETOCEROS DENSUS
80	DIA	THALASSIONEMA NITZSCHOIDES
60	DIA	PLEUROSIGMA SPP.
40	DIN	PROROCENTRUM COMPRESSUM
40	DIN	GYMNODINIUM SP. 1
40	DIA	NAVICULA DISTANS
20	DIN	PROROCENTRUM MICANS
20	DIN	PROROCENTRUM ROSTRATUM
20	DIN	GYMNODINIUM SPLENDENS
20	DIA	RHIZOSOLENIA ALATA
20	DIA	PLEUROSIGMA ANGULATUM
20	DIA	AMPHORA SPP.
20	DIA	SKELETONEMA COSTATUM

2820 =TOTAL ABUNDANCE DIVERSITY = 3.47990

FALL TRANSECT IV STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
1660	DIA	NITZSCHIA DELICATISSIMA
1280	DIN	GONYAULAX MINIMA
1180	DIN	UNIDENTIFIED DINOFLAGELLATES
840	DIA	UNIDENTIFIED PENNATE
820	DIA	THALASSIONEMA NITZSCHOIDES
440	DIN	GYMNODINIUM SPP.
360	DIA	CHAETOCEROS SPP.
220	DIA	NITZSCHIA SPP.
180	DIA	RHIZOSOLENIA ALATA
180	DIA	HEMIAULUS HAUCKII
160	DIN	AMPHIDINIUM ACUTISSIMUM
120	DIA	GUINARDIA FLACCIDA
100	DIA	RHIZOSOLENIA FRAGILLISSIMA
100	DIA	RHIZOSOLENIA PUNGENS
100	DIA	NAVICULA WARWRIKAE
80	DIA	CYMATOSIRA BELGICA
60	DIN	AMPHIDINIUM SPP.
60	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
40	DIA	CHAETOCEROS DIVERSUS
40	DIA	CHAETOCEROS DECIPIENS
20	DIN	PERIDINIUM SPP.
20	DIN	GONYAULAX POLYGRAMMA
20	DIN	CERATIUM KOFOIDII
20	DIN	CERATIUM FURCA
20	DIN	PROROCENTRUM ROSTRATUM
20	DIA	RHIZOSOLENIA DELICATULA
20	DIA	CHAETOCEROS PERUVIANUS
20	DIN	PODOLAMPAS SPINIFERA

8180 =TOTAL ABUNDANCE DIVERSITY = 3.61968

FALL TRANSECT IV STATION 2 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
1320	DIA	NITZSCHIA DELICATISSIMA
1140	DIA	UNIDENTIFIED PENNATE
860	DIN	UNIDENTIFIED DINOFLAGELLATES
460	DIA	CHAETOCEROS SPP.
300	DIA	THALASSIONEMA NITZSCHOIDES
260	DIA	NITZSCHIA SPP.
240	DIN	GONYAULAX MINIMA
180	DIN	GYMNODINIUM SPP.
180	DIA	RHIZOSOLENIA CALCAR AVIS
120	DIN	AMPHIDINIUM ACUTISSIMUM
100	DIA	RHIZOSOLENIA STOLTERFOTHII
100	DIA	HEMIAULUS HAUCKII
100	DIA	LEPTOCYLINDRUS DANICUS
80	DIA	RHIZOSOLENIA FRAGILLISSIMA
60	DIA	RHIZOSOLENIA DELICATULA
60	DIA	NAVICULA WARWRIKAE
40	DIN	AMPHIDINIUM SPP.
40	DIN	PROROCENTRUM ROSTRATUM
40	DIA	CHAETOCEROS DADAYI
40	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
40	DIA	CHAETOCEROS DIVERSUS
40	DIA	RHIZOSOLENIA ALATA
40	DIA	NAVICULA SPP.
20	DIN	CERATIUM FURCA
20	DIN	CLADOPYXIS SPP.
20	DIN	DINASTRIDIUM SPP.
20	DIA	ASTEROMPHALUS HEPTACTIS
20	DIA	CHAETOCEROS PERUVIANUS
20	DIA	THALASSIOSIRA ROTULA
20	DIA	RHIZOSOLENIA PUNGENS
20	DIA	DACTYLIOSOLEN ANTARCTICUS
20	DIA	GUINARDIA FLACCIDA
20	SIL	EBRIA ANTIQUA

6040 =TOTAL ABUNDANCE DIVERSITY = 3.74987

FALL TRANSECT IV STATION 3 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
340	DIN	UNIDENTIFIED DINOFLAGELLATES
320	DIA	UNIDENTIFIED PENNATE
100	DIN	GYMNODINIUM SPP.
80	DIA	NITZSCHIA SPP.
40	DIN	AMPHIDINIUM SPP.
40	DIA	NAVICULA DISTANS
20	DIN	GONYAULAX SPP.
20	DIN	GONYAULAX MINIMA
20	DIA	CHAETOCEROS SPP.
20	DIA	NAVICULA SPP.
20	DIA	RHIZOSOLENIA ALATA
20	DIA	THALASSIONEMA NITZSCHOIDES

1040 =TOTAL ABUNDANCE DIVERSITY = 2.68379

FALL TRANSECT IV STATION 3 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
1080	DIA	UNIDENTIFIED PENNATE
840	DIN	UNIDENTIFIED DINOFLAGELLATES
460	DIA	NITZSCHIA DELICATISSIMA
200	DIN	GYMNODINIUM SPP.
140	DIN	GONYAULAX MINIMA
120	DIN	AMPHIDINIUM ACUTISSIMUM
100	DIA	NITZSCHIA SPP.
100	DIA	CHAETOCEROS SPP.
80	DIA	RHIZOSOLENIA ALATA
80	DIA	FRAGILARIA SPP.
60	DIA	NAVICULA SPP.
40	DIN	AMPHIDINIUM SPP.
40	DIA	CHAETOCEROS DADAYI
40	DIA	HEMIAULUS SINENSIS
20	DIN	OXYTOXUM SCEPTRUM
20	DIN	CERATIUM KOFOIDII
20	DIA	THALASSIONEMA NITZSCHOIDES
20	DIA	HEMIAULUS MEMBRANACEOUS
20	SIL	DICTYOCHA FIBULA

3480 =TOTAL ABUNDANCE DIVERSITY = 3.08231

AUGUST TRANSECT II STATION 1 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
3080	DIN	GYMNODINIUM SPP.
1040	DIA	NITZSCHIA DELICATISSIMA
840	DIA	NITZSCHIA SPP.
560	DIA	CHAETOCEROS DIVERSUS
420	DIA	UNIDENTIFIED PENNATE
400	DIN	DINASTRIDIUM SPP.
240	DIN	PERIDINIUM CERASUS
220	DIN	GONYAULAX POLYGRAMMA
180	DIN	UNIDENTIFIED DINOFLAGELLATES
180	DIA	NITZSCHIA SERIATA
160	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
160	DIA	CYMATOSIRA BELGICA
120	DIA	CLIMACODIUM BICONCAVUM
100	DIN	GYMNODINIUM SP. 1
100	DIA	HEMIAULUS MEMBRANACEOUS
100	DIA	UNIDENTIFIED CENTRIC
80	DIN	PERIDINIUM SPP.
80	DIN	GONYAULAX MINIMA
80	DIA	RHIZOSOLENIA PUNGENS
60	DIA	CHAETOCEROS SPP.
60	DIA	THALASSIOTHRIX LONGISSIMA
40	DIN	GYMNODINIUM WILCZEKI
40	DIA	COSCINOSIRA POLYCHORDA
40	DIA	NAVICULA WARMRIKAE
20	DIN	AMPHIDINIUM SPP.
20	DIA	CONSCINODISCUS RADIATUS
20	DIA	CHAETOCEROS PERUVIANUS
20	DIA	CHAETOCEROS ATLANTICUS V. AUDAX
20	DIA	ASTEROMPHALUS HEPTACTIS
20	SIL	DICTYOCHA FIBULA
20	DIA	RHIZOSOLENIA STYLIFORMIS V. LONGISPIN
1	DIN	CERATIUM FURCA
1	DIN	CERATIUM TRIPOS
1	DIN	PERIDINIUM DEPRESSUM
1	DIA	CHAETOCEROS TETRASTICHON
1	DIA	RHIZOSOLENIA CALCAR AVIS
1	DIA	RHIZOSOLENIA STOLTERFOTHII
1	DIA	THALASSIOSIRA ROTULA

8527 =TOTAL ABUNDANCE DIVERSITY = 3.51188

AUGUST TRANSECT II STATION 1 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
2160	DIA	NITZSCHIA DELICATISSIMA
960	DIA	UNIDENTIFIED PENNATE
800	DIA	CHAETOCEROS DIVERSUS (NEW)
660	DIA	NITZSCHIA SPP.
340	DIA	CHAETOCEROS SPP.
200	DIA	NITZSCHIA SERIATA
180	DIA	CHAETOCEROS MESSANENSIS
160	DIN	GYMNODINIUM SP. 1
122	DIN	GYMNODINIUM SPP.
120	DIA	CHAETOCEROS TETRASTICHON
100	DIN	GYRODINIUM PINGUE
100	DIA	NAVICULA WARMRIKAE
80	DIN	GONYAULAX POLYGRAMMA
80	DIA	CHAETOCEROS DECIPIENS
80	DIA	NITZSCHIA CLOSTERIUM
60	DIN	DINASTRIDIUM SPP.
60	DIN	UNIDENTIFIED DINOFLAGELLATES
60	DIA	THALASSIOTHRIX LONGISSIMA
40	DIA	NAVICULA SPP.
40	DIA	BACTERIASTRUM ELONGATUM
40	DIA	THALASSIONEMA NITZSCHOIDES
40	DIA	RHIZOSOLENIA PUNGENS
40	DIA	HEMIAULUS MEMBRANACEOUS
20	DIN	PERIDINIUM CERASUS
20	DIA	CORETHRON HYSTRIX
20	DIA	UNIDENTIFIED CENTRIC
20	DIA	RHIZOSOLENIA STOLTERFOTHII
20	DIA	RHIZOSOLENIA ROBUSTA
20	GRE	PRASINOPHYTE CYST
20	DIA	ASTEROMPHALUS ROBUSTUS
1	DIA	CHAETOCEROS CONVOLUTUS
1	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
1	DIA	HEMIAULUS HAUCKII

6665 =TOTAL ABUNDANCE DIVERSITY = 3.48167

AUGUST TRANSECT II STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
2040	OTH	SMALL CRYPTOMONAD (CA. CHROOMONAS)
280	DIA	THALASSIONEMA NITZSCHOIDES
240	DIA	HEMIAULUS SINENSIS
160	DIN	GYMNODINIUM SPP.
160	DIA	NITZSCHIA DELICATISSIMA
120	DIA	NITZSCHIA SERIATA
120	DIA	CHAETOCEROS DECIPIENS
80	DIN	UNIDENTIFIED DINOFLAGELLATES
80	DIA	CHAETOCERUS SPP.
80	DIA	NITZSCHIA CLOSTERIUM
60	DIA	CHAETOCEROS TETRASTICHON
60	DIA	UNIDENTIFIED PENNATE
40	DIN	DINASTRIDIUM SPP.
40	DIA	HEMIAULUS HAUCKII
40	DIA	RHIZOSOLENIA ALATA V. ALATA
40	DIA	RHIZOSOLENIA CALCAR AVIS
20	DIN	GONYAULAX POLYGRAMMA
20	DIA	CHAETOCEROS PERUVIANUS
20	DIA	NITZSCHIA SPP.
20	DIA	RHIZOSOLENIA HEBETATA V. HIEMALIS
1	DIA	PLEUROSIGMA MARINUM

3721 =TOTAL ABUNDANCE DIVERSITY = 2.72157

AUGUST TRANSECT II STATION 2 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
360	OTH	SMALL CRYPTOMONAD (CA. CHROOMONAS)
320	DIN	GYMNODINIUM SP. 1
300	DIN	UNIDENTIFIED DINOFLAGELLATES
240	DIA	THALASSIONEMA NITZSCHUIDES
180	DIA	UNIDENTIFIED PENNATE
120	DIN	GYMNODINIUM SPP.
100	DIA	HEMIAULUS SINENSIS
100	DIA	CHAETOCEROS SPP.
100	DIA	THALASSIOTHRIX FRAUNFELDII
60	DIN	AMPHIDINIUM ACUTISSIMUM
40	DIN	CERATIUM FUSUS
40	DIN	DINASTRIDIUM SPP.
40	DIA	NITZSCHIA SPP.
40	DIA	NITZSCHIA CLOSTERIUM
40	DIA	DACTYLIOSOLEN MEDITERRANEUS
40	DIA	BACTERIASTRUM ELONGATUM
20	DIN	GONYAULAX SPP.
20	DIN	PERIDINIUM TUBA
20	DIN	DINOPHYSIS SPP.
20	DIN	CERATIUM TRIPOS
20	DIN	PODOLAMPAS SPINIFERA
20	DIN	PYROCYSTIS LUNULA
20	DIN	PERIDINIUM SPP.
20	DIA	RHIZOSOLENIA HEBETATA V. HIEMALIS
20	DIA	CHAETOCEROS DECIPIENS
1	DIA	NAVICULA WARMRIKAE
1	DIA	CHAETOCEROS PERUVIANUS
1	DIA	RHIZOSOLENIA ALATA V. ALATA

2303 =TOTAL ABUNDANCE DIVERSITY = 3.93894

AUGUST TRANSECT II STATION 3 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
1140	DIA	THALASSIONEMA NITZSCHOIDES
740	DIA	CHAETOCEROS DECIPIENS
720	DIA	NITZSCHIA DELICATISSIMA
460	DIN	GYMNODINIUM SPP.
400	DIA	HEMIAULUS SINENSIS
340	DIN	UNIDENTIFIED DINOFLAGELLATES
260	DIA	UNIDENTIFIED PENNATE
200	DIA	BACTERIASTRUM ELEGANS
120	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
80	DIA	CHAETOCEROS SPP.
80	DIA	HEMIAULUS HAUCKII
80	DIA	NITZSCHIA SPP.
60	DIA	RHIZOSOLENIA ALATA V. ALATA
60	DIA	RHIZOSOLENIA HEBETATA V. HIEMALIS
40	DIN	AMPHIDINIUM ACUTISSIMUM
40	DIA	RHIZOSOLENIA STOLTERFOTHII
40	DIA	CHAETOCEROS AFFINIS
40	DIA	RHIZOSOLENIA CALCAR AVIS
20	DIN	CERATIUM FURCA
20	DIN	CERATIUM PENTAGONUM
20	DIN	GONYAULAX SPP.
20	DIA	RHIZOSOLENIA PUNGENS
20	DIA	AMPHORA SPP.
1	DIN	CERATIUM COMPACTA
1	DIN	PERIDINIUM TUBA
1	DIA	THALASSIOTHRIX LONGISSIMA
1	DIA	ASTEROMPHALUS HEPTACTIS
1	DIA	NAVICULA WARMRIKAE

5005 =TOTAL ABUNDANCE DIVERSITY = 3.54323

AUGUST TRANSECT II STATION 3 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
420	DIN	GYMNODINIUM SPP.
220	DIA	UNIDENTIFIED PENNATE
160	DIN	AMPHIDINIUM ACUTISSIMUM
160	DIN	UNIDENTIFIED DINOFLAGELLATES
140	DIA	THALASSIONEMA NITZSCHOIDES
100	DIA	LEPTOCYLINDRUS DANICUS
40	DIA	HEMIAULUS SINENSIS
20	DIN	GONYAULAX SPP.
20	DIN	PYROPHACUS HOROLOGIUM
20	DIN	PERIDINIUM TUBA
20	DIN	PHALACHROMA SPP.
20	DIA	CHAETOCEROS SPP.
20	DIA	NAVICULA SPP.
20	DIA	NITZSCHIA DELICATISSIMA
20	DIA	NITZSCHIA SPP.
20	DIA	RHIZOSOLENIA CALCAR AVIS
1	DIN	CERATIUM FUSUS
1	DIN	CERATIUM PULCHELLUM
1	DIA	RHIZOSOLENIA HEBETATA V. HIEMALIS

1423 =TOTAL ABUNDANCE DIVERSITY = 3.19384

NOVEMBER TRANSECT II STATION 1 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
600	DIA	UNIDENTIFIED PENNATE
580	DIA	NITZSCHIA SPP.
500	DIN	UNIDENTIFIED DINOFLAGELLATES
200	DIN	GYMNODINIUM SPP.
120	DIN	GONYAULAX MINIMA
100	DIA	CHAETOCEROS DECIPIENS
60	DIN	CERATIUM FURCA
40	DIN	PROROCENTRUM MICANS
40	DIA	RHIZOSOLENIA ROBUSTA
20	DIN	CLADOPYXIS SPP.
20	DIN	PROROCENTRUM SCHILLERI
20	DIA	UNIDENTIFIED CENTRIC
20	DIA	THALASSIOSIRA SPP.
20	DIA	RHIZOSOLENIA STYLIFORMIS V. LONGISPIN
20	DIA	NAVICULA SPP.
20	DIA	NAVICULA DISTANS
20	DIA	COSCINODISCUS SPP.
20	DIA	COSCINODISCUS LINEATUS

2480 =TOTAL ABUNDANCE DIVERSITY = 3.02239

NOVEMBER TRANSECT II STATION 1 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
640	DIA	NAVICULA DISTANS
560	DIA	UNIDENTIFIED PENNATE
460	DIN	UNIDENTIFIED DINOFLAGELLATES
460	DIA	NITZSCHIA SPP.
420	DIA	CHAETOCEROS COARCTICUS
320	DIN	GYMNODINIUM SPP.
100	DIA	GUINARDIA FLACCIDA
100	DIA	THALASSIONEMA NITZSCHOIDES
80	DIA	CHAETOCEROS DIDYMUS V. ANGLICA
60	DIA	COSCINODISCUS SPP.
60	DIA	PLEUROSIGMA SP. 1 (SMALL)
40	DIN	GONYAULAX MINIMA
40	DIA	NAVICULA MEMBRANACEA
40	DIA	UNIDENTIFIED CENTRIC
40	DIA	RHIZOSOLENIA ROBUSTA
20	DIN	PERIDINIUM SPP.
20	DIA	DIPLONEIS SPP.
20	DIA	RHIZOSOLENIA PUNGENS
20	DIA	RHIZOSOLENIA STYLIFORMIS V. LONGISPIN
20	DIA	RHIZOSOLENIA ALATA V. ALATA
20	DIA	NAVICULA WARWRIKAE
20	DIA	NAVICULA SPP.
20	DIA	NITZSCHIA CLOSTERIUM

3580 =TOTAL ABUNDANCE DIVERSITY = 3.53627

NOVEMBER TRANSECT II STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
660	DIN	UNIDENTIFIED DINOFLAGELLATES
500	DIA	UNIDENTIFIED PENNATE
360	DIA	NITZSCHIA SPP.
240	DIA	RHIZOSOLENIA STYLIFORMIS V. LONGISPIN
200	DIN	GYMNODINIUM SPP.
140	DIA	CHAETOCEROS GLANDAZII
140	DIA	UNIDENTIFIED CENTRIC
120	DIA	THALASSIONEMA NITZSCHOIDES
120	DIA	NITZSCHIA CLOSTERIUM
100	DIA	NITZSCHIA DELICATISSIMA
100	DIA	RHIZOSOLENIA PUNGENS
80	DIA	HEMIAULUS SINENSIS
80	DIA	GUINARDIA FLACCIDA
80	DIA	CYCLOTELLA SPP.
80	DIA	COSCINOSIRA OESTRUPII
80	DIA	CHAETOCEROS SPP.
60	DIA	RHIZOSOLENIA CASTRACANEI
60	DIA	CHAETOCEROS DECIPIENS
40	DIA	RHIZOSOLENIA SETIGERA
40	DIA	RHIZOSOLENIA ROBUSTA
40	DIA	HEMIDISCUS HARDMANIANUS
40	SIL	DICTYOCHA FIBULA
20	DIN	GONYAULAX MINIMA
20	DIA	NAVICULA WARWRIKAE
20	DIA	CORETHRON HYSTRIX
20	DIA	CHAETOCEROS DANICUS
20	DIA	THALASSIOTHRIX MEDITERRANES

3460 =TOTAL ABUNDANCE DIVERSITY = 4.06036

NOVEMBER TRANSECT II STATION 2 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
1100	DIA	UNIDENTIFIED PENNATE
1000	DIA	RHIZOSOLENIA STOLTERFOTHII
820	DIA	CHAETOCEROS COSTATUS
580	DIA	CHAETOCEROS SPP.
520	DIN	UNIDENTIFIED DINOFLAGELLATES
500	DIA	GUINARDIA FLACCIDA
440	DIA	NITZSCHIA SPP.
320	DIA	CHAETOCEROS FURCELLATUS
320	DIA	BACTERIASTRUM HYALINUM
240	DIA	BACTERIASTRUM MEDITERRANEUM
220	DIA	THALASSIONEMA NITZSCHOIDES
220	DIA	HEMIAULUS SINENSIS
220	DIA	CHAETOCEROS DANICUS
200	DIA	NITZSCHIA LONGISSIMA
180	DIA	CHAETOCEROS DICHAETA
180	DIA	CHAETOCEROS DELICATULUS
180	DIA	CHAETOCEROS BOREALIS
140	DIA	CHAETOCEROS DECIPIENS
100	DIA	NAVICULA SPP.
80	DIN	GYMNODINIUM SPP.
80	DIA	PLEUROSIGMA SPP.
80	DIA	PLEUROSIGMA SP. 1 (SMALL)
60	DIA	PLEUROSIGMA ANGULATUM
60	DIA	CHAETOCEROS GLANDAZII
60	DIA	CHAETOCEROS DIVERSUS
60	DIA	CHAETOCEROS COARCTICUS
40	DIN	AMPHIDINIUM ACUTISSIMUM
40	DIA	RHIZOSOLENIA SETIGERA
40	DIA	THALASSIOTHRIX FRAUNFELDII
40	DIA	NAVICULA MEMBRANACEA
40	DIA	CORETHRON HYSTRIX
20	DIA	NITZSCHIA CLOSTERIUM
20	DIA	COSCINODISCUS LINEATUS
20	DIA	CORETHRON PELAGICUS

8220 =TOTAL ABUNDANCE DIVERSITY = 4.34617

NOVEMBER TRANSECT II STATION 3 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
800	DIA	UNIDENTIFIED PENNATE
560	DIN	UNIDENTIFIED DINOFLAGELLATES
400	DIA	NITZSCHIA DELICATISSIMA
260	DIA	NITZSCHIA SPP.
180	DIN	GYMNODINIUM SPP.
160	DIA	THALASSIONEMA NITZSCHOIDES
140	DIA	CHAETOCEROS DECIPIENS
80	DIN	GONYAULAX MINIMA
80	DIA	CHAETOCEROS DENSUS
80	DIA	STREPTOTHECA THAMESIS
60	DIA	NITZSCHIA LONGISSIMA
60	DIA	CHAETOCEROS PERUVIANUS
60	DIA	COSCINODISCUS RADIATUS
60	DIA	HEMIAULUS SINENSIS
40	DIN	DINASTRIDIUM SPP.
40	DIA	UNIDENTIFIED CENTRIC
40	SIL	DISTEPHANUS SPECULUM
20	DIN	CERATIUM TRIPOS
20	DIA	CORETHRON HYSTRIX
20	DIA	COSCINODISCUS SPP.
20	DIA	FRAGILARIA SPP.
20	DIA	NITZSCHIA CLOSTERIUM
20	DIA	RHIZOSOLENIA SETIGERA
20	SIL	DICTYOCHA FIBULA

3240 =TOTAL ABUNDANCE DIVERSITY = 3.62222

NOVEMBER TRANSECT II STATION 3 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
880	DIN	UNIDENTIFIED DINOFLAGELLATES
340	DIA	UNIDENTIFIED PENNATE
320	DIA	NITZSCHIA SPP.
260	DIA	CHAETOCEROS CURVISETUS
180	DIN	GYMNODINIUM SPP.
180	DIN	AMPHIDINIUM ACUTISSIMUM
160	DIA	RHIZOSOLENIA STOLTERFOTHII
100	DIA	CHAETOCEROS DECIPIENS
60	DIA	COSCINODISCUS SPP.
60	DIA	HEMIAULUS MEMBRANACEOUS
40	DIA	CHAETOCEROS SPP.
40	DIA	RHIZOSOLENIA CALCAR AVIS
20	DIN	CERATIUM HIRCUS
20	DIN	PODOLAMPAS SPINIFERA
20	DIN	PROROCENTRUM MICANS
20	DIA	ASTEROMPHALUS HEPTACTIS
20	DIA	NITZSCHIA LONGISSIMA

2720 =TOTAL ABUNDANCE DIVERSITY = 3.21053

NOVEMBER TRANSECT II STATION 3 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
720	DIN	UNIDENTIFIED DINOFLAGELLATES
440	DIA	UNIDENTIFIED PENNATE
280	DIN	GYMNODINIUM SPP.
240	DIA	HEMIAULUS MEMBRANACEOUS
240	DIA	NITZSCHIA SPP.
160	DIA	THALASSIONEMA NITZSCHOIDES
120	DIN	AMPHIDINIUM SPP.
120	DIN	AMPHIDINIUM ACUTISSIMUM
80	DIA	CHAETOCEROS DECIPIENS
80	DIA	RHIZOSOLENIA STOLTERFOTHII
40	DIN	CERATIUM HIRCUS
40	DIA	ASTEROMPHALUS HEPTACTIS
40	DIA	CORETHRON HYSTRIX
40	DIA	COSCINODISCUS RADIATUS
20	DIA	THALASSIOSIRA SPP.
20	BLU	TRICHODESMIUM SPP.

2680 =TOTAL ABUNDANCE DIVERSITY = 3.32094

NOVEMBER TRANSECT II STATION 3 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
840	DIN	UNIDENTIFIED DINOFLAGELLATES
600	DIA	NITZSCHIA DELICATISSIMA
560	DIA	UNIDENTIFIED PENNATE
520	DIA	THALASSIONEMA NITZSCHOIDES
420	DIA	NITZSCHIA SPP.
260	DIA	CHAETOCEROS DIVERSUS
140	DIN	GYMNODINIUM SPP.
120	DIN	AMPHIDINIUM ACUTISSIMUM
120	DIA	GUINARDIA FLACCIDA
100	DIA	CHAETOCEROS CURVISETUS
60	DIA	CHAETOCEROS SPP.
40	DIN	CERATIUM PENTAGONUM
40	DIA	NITZSCHIA CLOSTERIUM
40	DIA	UNIDENTIFIED CENTRIC
40	DIA	THALASSIOTHRIX LONGISSIMA
40	DIA	CORETHRON HYSTRIX
40	DIA	CHAETOCEROS PERUVIANUS
20	DIN	PERIDINIUM SPP.
20	DIN	CERATIUM TRIPOS
20	DIN	CERATIUM FUSUS
20	DIA	NAVICULA SPP.
20	DIA	RHIZOSOLENIA ALATA V. ALATA
20	DIA	PLEUROSIGMA ANGULATUM
20	DIA	NITZSCHIA LONGISSIMA
20	DIA	COSCINODISCUS RADIATUS
20	DIA	COSCINODISCUS LINEATUS
20	DIA	THALASSIOTHRIX MEDITERRANES

4180 =TOTAL ABUNDANCE DIVERSITY = 3.64698

ABUNDANCE CELLS/LITER	CLASS	SPECIES
650	DIN	GYMNODINIUM SPP.
450	DIA	THALASSIONEMA NITZSCHOIDES
400	DIA	UNIDENTIFIED PENNATE
250	DIN	UNIDENTIFIED DINOFLAGELLATES
100	DIN	GYMNODINIUM WILCZEKI
100	DIA	NITZSCHIA SPP.
100	DIA	CHAETOCEROS DENSUS
50	DIA	ASTEROMPHALUS HEPTACTIS
50	DIA	UNIDENTIFIED CENTRIC

2150 =TOTAL ABUNDANCE DIVERSITY = 2.68083

NOVEMBER TRANSECT II STATION 3 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
500	DIN	GYMNODINIUM SPP.
400	DIN	UNIDENTIFIED DINOFLAGELLATES
350	DIA	THALASSIONEMA NITZSCHOIDES
250	DIA	NITZSCHIA DELICATISSIMA
250	DIA	UNIDENTIFIED PENNATE
200	DIA	CHAETOCEROS SPP.
150	DIA	HEMIAULUS MEMBRANACEOUS
150	DIA	NITZSCHIA SPP.
150	DIA	RHIZOSOLENIA ALATA
150	DIA	CHAETOCEROS PERUVIANUS
100	DIA	CHAETOCEROS DENSUS
100	DIA	COSCINODISCUS SPP.
100	DIA	ASTEROMPHALUS HEPTACTIS
50	DIA	PLEUROSIGMA SP. 1 (SMALL)
50	DIA	RHIZOSOLENIA HEBETATA V. SEMISPINA

2950 =TOTAL ABUNDANCE DIVERSITY = 3.63256

DECEMBER TRANSECT I STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
224600	DIA	SKELETONEMA COSTATUM
12800	DIA	NITZSCHIA SERIATA
3200	DIA	CHAETOCEROS AFFINIS
3000	DIA	LEPTOCYLINDRUS MINIMUS
2800	DIA	NAVICULA DISTANS
2400	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)
2200	DIA	RHIZOSOLENIA STYLIFORMIS
2000	DIA	CHAETOCEROS SPP.
1800	DIN	UNIDENTIFIED DINOFLAGELLATES
1800	DIA	THALASSIONEMA NITZSCHOIDES
1600	DIA	GUINARDIA FLACCIDA
1400	DIA	CHAETOCEROS DECIPIENS
1200	DIA	UNIDENTIFIED PENNATE
800	DIN	GYMNODINIUM SPP.
800	DIA	PLEUROSIGMA SP. 1 (SMALL)
600	DIA	NAVICULA ELEGANS
600	DIA	PLEUROSIGMA ANGULATUM
400	DIA	COSCINODISCUS SPP.
400	DIA	RHIZOSOLENIA PUNGENS
400	DIA	THALASSIOSIRA ROTULA
400	DIA	RHIZOSOLENIA CALCAR AVIS
200	DIN	GONYAULAX MINIMA
200	DIN	PERIDINIUM SUBINERME
200	DIA	PLEUROSIGMA STRIGOSUM
200	DIA	UNIDENTIFIED CENTRIC
200	SIL	DICTYOCHA FIBULA

266200 =TOTAL ABUNDANCE DIVERSITY = 1.21167

DECEMBER TRANSECT I STATION 2 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
197200	DIA	SKELETONEMA COSTATUM
9000	DIA	NITZSCHIA SERIATA
6400	DIA	CHAETOCEROS COMPRESSUS
3200	DIA	THALASSIOSIRA ROTULA
3000	DIN	UNIDENTIFIED DINOFLAGELLATES
3000	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)
2800	DIA	EUCAMPIA ZODIACUS
2800	DIA	RHIZOSOLENIA STOLTERFOTHII
2600	DIA	NAVICULA DISTANS
2400	DIA	THALASSIONEMA NITZSCHOIDES
2200	DIA	LEPTOCYLINDRUS MINIMUS
2000	DIA	UNIDENTIFIED PENNATE
1400	DIA	THALASSIOSIRA DECIPIENS
1400	SIL	DICTYOCHA FIBULA
1000	DIA	CHAETOCEROS LORENZIANUS
800	DIA	CHAETOCEROS TETRASTICHON
800	DIA	GUINARDIA FLACCIDA
600	DIA	PLEUROSIGMA ANGULATUM
400	DIA	RHIZOSOLENIA STYLIFORMIS
400	DIA	RHIZOSOLENIA DELICATULA
400	DIA	RHIZOSOLENIA CALCAR AVIS
400	DIA	PLEUROSIGMA SP. 1 (SMALL)
400	DIA	NITZSCHIA SPP.
400	DIA	DITYLUM BRIGHTWELLII
400	DIA	COSCINODISCUS SPP.
200	DIN	PERIDINIUM SPP.
200	DIN	GYMNODINIUM SPP.
200	DIA	CORETHRON PELAGICUS
200	DIA	UNIDENTIFIED CENTRIC
200	DIA	PLEUROSIGMA SPP.
200	DIA	NITZSCHIA CLOSTERIUM
200	DIA	BIDDULPHIA CHINENSIS
200	SIL	EBRIA ANTIQUA

247000 =TOTAL ABUNDANCE DIVERSITY = 1.56997

DECEMBER TRANSECT II STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
26900	DIA	SKELETONEMA COSTATUM
3200	DIA	CHAETOCEROS PSEUDOCURVISETUS
1600	DIN	UNIDENTIFIED DINOFLAGELLATES
1600	DIA	CHAETOCEROS DECIPIENS
800	DIA	NITZSCHIA SERIATA
700	DIA	THALASSIOSIRA ROTULA
400	DIA	RHIZOSOLENIA STOLTERFOTHII
300	DIN	GYMNODINIUM SPP.
300	DIA	UNIDENTIFIED PENNATE
300	DIA	THALASSIONEMA NITZSCHOIDES
300	DIA	NITZSCHIA LONGISSIMA
200	DIA	THALASSIOSIRA NORDENSKIOLDII
200	DIA	THALASSIOSIRA DECIPIENS
200	DIA	RHIZOSOLENIA PUNGENS
200	DIA	NITZSCHIA CLOSTERIUM
100	DIN	AMPHIDINIUM ACUTISSIMUM
100	DIN	CERATIUM FUSUS
100	DIA	NAVICULA ELEGANS
100	DIA	NAVICULA DISTANS
100	DIA	NAVICULA MEMBRANACEA
100	DIA	DIPLONEIS SPP.
100	DIA	DACTYLIOSOLEN ANTARCTICUS
100	DIA	COSCINODISCUS SPP.
100	DIA	CERATAULINA BERGONII

38100 =TOTAL ABUNDANCE DIVERSITY = 1.91568

DECEMBER TRANSECT II STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
19500	DIA	SKELETONEMA COSTATUM
1900	DIN	UNIDENTIFIED DINOFLAGELLATES
1200	DIA	CYCLOTELLA SPP.
1200	DIA	BACILLARIA PARADOXA
1000	DIA	CHAETOCEROS AFFINIS
1000	DIA	THALASSIONEMA NITZSCHOIDES
800	DIA	CHAETOCEROS SPP.
800	DIA	LEPTOCYLINDRUS DANICUS
800	DIA	UNIDENTIFIED CENTRIC
700	DIN	GYMNODINIUM SPP.
700	DIA	NITZSCHIA DELICATISSIMA
700	DIA	CHAETOCEROS DEBILIS
600	DIA	THALASSIOSIRA DECIPIENS
400	DIA	UNIDENTIFIED PENNATE
300	DIN	AMPHIDINIUM ACUTISSIMUM
300	DIA	NITZSCHIA SPP.
300	DIA	COSCINODISCUS RADIATUS
300	DIA	CERATAULINA BERGONII
300	DIA	DITYLUM BRIGHTWELLII
200	DIN	AMPHIDINIUM SPP.
200	DIA	NAVICULA SPP.
200	DIA	BIDDULPHIA SINENSIS
200	DIA	NAVICULA DISTANS
100	DIA	PLEUROSIGMA SP. 1 (SMALL)
100	DIA	NITZSCHIA CLOSTERIUM
100	DIA	NAVICULA ELEGANS
100	DIA	COSCINODISCUS LINEATUS
100	DIA	CHAETOCEROS PERUVIANUS
100	DIA	CERATAULINA COMPACTA
100	SIL	DISTEPHANUS SPECULUM

34300 =TOTAL ABUNDANCE DIVERSITY = 2.87914

DECEMBER TRANSECT II STATION 2 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
13600	DIA	SKELETONEMA COSTATUM
1600	DIA	CYCLOTELLA SPP.
1400	DIN	UNIDENTIFIED DINOFLAGELLATES
900	DIN	GYMNODINIUM SPP.
800	DIA	NITZSCHIA DELICATISSIMA
800	DIA	CERATAULINA BERGONII
600	DIA	THALASSIONEMA NITZSCHOIDES
600	DIA	CHAETOCEROS SPP.
600	DIA	LEPTOCYLINDRUS MINIMUS
500	DIA	CHAETOCEROS AFFINIS
500	DIA	UNIDENTIFIED PENNATE
400	DIA	UNIDENTIFIED CENTRIC
400	DIA	NAVICULA DISTANS
300	DIA	CERATAULINA COMPACTA
300	DIA	COSCINODISCUS RADIATUS
200	DIN	GONYAULAX MINIMA
200	DIN	AMPHIDINIUM SPP.
200	DIN	GYMNODINIUM SP. 1
200	DIA	NITZSCHIA CLOSTERIUM
200	DIA	PLEUROSIGMA SP. 1 (SMALL)
200	DIA	THALASSIOSIRA ROTULA
200	DIA	CHAETOCEROS DECIPIENS
200	DIA	COSCINODISCUS LINEATUS
100	DIN	AMPHIDINIUM ACUTISSIMUM
100	DIN	PERIDINIUM SPP.
100	DIA	NITZSCHIA PANDURIFORMIS
100	DIA	NITZSCHIA SPP.
100	DIA	NAVICULA WARNRIKAE
100	DIA	DIPLONEIS SPP.
100	DIA	GUINARDIA FLACCIDA
100	DIA	HEMIAULUS SINENSIS
100	DIA	HEMIAULUS MEMBRANACEOUS
100	DIA	NAVICULA ELEGANS

25900 =TOTAL ABUNDANCE DIVERSITY = 3.12242

DECEMBER TRANSECT II STATION 2 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
43300	DIA	SKELETONEMA COSTATUM
3300	DIA	CHAETOCEROS DECIPIENS
3200	DIA	THALASSIONEMA NITZSCHOIDES
1900	DIA	NITZSCHIA SERIATA
1300	DIA	THALASSIOSIRA ROTULA
1200	DIA	COSCINOSIRA POLYCHORDA
1000	DIN	UNIDENTIFIED DINOFLAGELLATES
1000	DIA	CHAETOCEROS MESSANENSIS
900	DIA	THALASSIOTHRIX FRAUNFELDII
900	DIA	UNIDENTIFIED PENNATE
800	DIA	CHAETOCEROS PSEUDOCURVISETUS
800	DIA	CHAETOCEROS SPP.
500	DIA	EUCAMPIA ZODIACUS
400	DIA	CERATAULINA BERGONII
400	DIA	CHAETOCEROS TETRASTICHON
300	DIA	THALASSIOSIRA DECIPIENS
300	DIA	CERATAULINA COMPACTA
300	DIA	NAVICULA MEMBRANACEA
300	DIA	CHAETOCEROS COMPRESSUS
300	DIA	RHIZOSOLENIA PUNGENS
200	DIA	UNIDENTIFIED CENTRIC
200	DIA	NAVICULA DISTANS
200	DIA	HEMIAULUS SINENSIS
200	DIA	DITYLUM BRIGHTWELLII
100	DIN	PERIDINIUM CONICUM
100	DIA	NITZSCHIA DISTANS
100	DIN	PROROCENTRUM MICANS
100	DIN	AMPHIDINIUM ACUTISSIMUM
100	DIN	NOCTILUCA SCINTILLANS
100	DIN	CERATIUM FURCA
100	DIA	BIDDULPHIA CHINENSIS
100	DIA	PLEUROSIGMA STRIGOSUM
100	DIA	PLEUROSIGMA MARINUM
100	DIA	NAVICULA WARNRIKAE
100	DIA	NITZSCHIA LONGISSIMA
100	DIA	NITZSCHIA CLOSTERIUM
100	DIA	COSCINODISCUS CONCINNUS
100	DIA	COSCINODISCUS ASTEROMPHALUS
100	SIL	DICTYOCHA FIBULA

64700 =TOTAL ABUNDANCE DIVERSITY = 2.35312

DECEMBER TRANSECT II STATION 2 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
22500	DIA	SKELETONEMA COSTATUM
2200	DIN	UNIDENTIFIED DINOFLAGELLATES
1800	DIA	NITZSCHIA SERIATA
1300	DIA	THALASSIONEMA NITZSCHOIDES
1200	DIA	RHIZOSOLENIA STOLTERFOTHII
700	DIA	NITZSCHIA DELICATISSIMA
600	DIA	UNIDENTIFIED PENNATE
600	DIA	THALASSIOSIRA ROTULA
500	DIA	CHAETOCEROS COMPRESSUS
400	DIN	AMPHIDINIUM ACUTISSIMUM
400	DIA	NAVICULA MEMBRANACEA
400	DIA	CHAETOCEROS SPP.
300	DIN	GYMNODINIUM SPP.
300	DIA	RHIZOSOLENIA ALATA
300	DIA	HEMIAULUS MEMBRANACEOUS
300	SIL	DICTYOCHA FIBULA
200	DIA	NITZSCHIA CLOSTERIUM
200	DIA	BACTERIASTRUM HYALINUM
200	DIA	HEMIAULUS SINENSIS
200	DIA	CHAETOCEROS PERUVIANUS
100	DIN	CERATIUM HIRCUS
100	DIA	NITZSCHIA PANDURIFORMIS
100	DIA	PLEUROSIGMA ANGULATUM
100	DIA	PLEUROSIGMA MARINUM
100	DIA	RHIZOSOLENIA SETIGERA
100	DIA	GUINARDIA FLACCIDA
100	SIL	DISTEPHANUS SPECULUM

35300 =TOTAL ABUNDANCE DIVERSITY = 2.41741

DECEMBER TRANSECT II STATION 2 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
29800	DIA	SKELETONEMA COSTATUM
2400	DIA	NITZSCHIA SERIATA
1200	DIA	CHAETOCEROS COMPRESSUS
1000	DIN	UNIDENTIFIED DINOFLAGELLATES
900	DIA	THALASSIONEMA NITZSCHOIDES
600	DIA	RHIZOSOLENIA STOLTERFOTHII
500	DIA	HEMIAULUS MEMBRANACEOUS
500	DIA	NITZSCHIA DELICATISSIMA
500	DIA	CYMATUSIRA BELGICA
500	DIA	UNIDENTIFIED PENNATE
400	DIN	GYMNODINIUM SPP.
400	DIA	RHIZOSOLENIA PUNGENS
300	DIN	AMPHIDINIUM SPP.
300	DIA	CHAETOCEROS DECIPIENS
300	DIA	CHAETOCEROS SPP.
300	DIA	PLEUROSIGMA SP. 1 (SMALL)
300	DIA	THALASSIOSIRA DECIPIENS
200	DIN	AMPHIDINIUM ACUTISSIMUM
200	DIA	DITYLUM BRIGHTWELLII
200	DIA	COSCINODISCUS SPP.
200	DIA	UNIDENTIFIED CENTRIC
100	DIN	PERIDINIUM TUBA
100	DIA	GUINARDIA FLACCIDA
100	DIA	HEMIAULUS SINENSIS
100	DIA	NAVICULA MEMBRANACEA
100	DIA	NAVICULA DISTANS
100	DIA	NAVICULA WARMRIKAE
100	DIA	NITZSCHIA LONGISSIMA
100	DIA	NITZSCHIA PANDURIFORMIS
100	DIA	PLEUROSIGMA MARINUM
100	DIA	DIPLONEIS SPP.
100	DIA	PLEUROSIGMA STRIGOSUM
100	DIA	RHIZOSOLENIA ALATA
100	SIL	DICTYOCHA FIBULA

42300 =TOTAL ABUNDANCE DIVERSITY = 2.17056

DECEMBER TRANSECT II STATION 3 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
900	DIA	NITZSCHIA DELICATISSIMA
880	DIA	CHAETOCEROS DECIPIENS
720	DIA	UNIDENTIFIED PENNATE
280	DIN	UNIDENTIFIED DINOFLAGELLATES
240	DIA	RHIZOSOLENIA STOLTERFOTHII
200	DIA	NITZSCHIA CLOSTERIUM
200	DIA	CHAETOCEROS COMPRESSUS
180	DIA	BACTERIASTRUM ELEGANS
160	DIA	NITZSCHIA SERIATA
140	DIA	CHAETOCEROS SPP.
140	DIA	CORETHRON HYSTRIX
120	DIA	CHAETOCEROS DIVERSUS
120	DIA	CHAETOCEROS PERUVIANUS
120	DIA	BACILLARIA PARADOXA
120	DIA	CHAETOCEROS CURVISETUS
120	DIA	NITZSCHIA SPP.
100	DIA	DACTYLIOSOLEN MEDITERRANEUS
80	DIA	CHAETOCEROS MESSANENSIS
80	DIA	NAVICULA WARWRIKAE
80	DIA	CHAETOCEROS BOREALIS
60	DIA	NAVICULA DISTANS
60	DIA	RHIZOSOLENIA PUNGENS
40	DIN	AMPHIDINIUM ACUTISSIMUM
40	DIN	GONYAULAX MINIMA
40	DIA	CHAETOCEROS LACINOSUS
40	DIA	THALASSIOTHRIX LONGISSIMA
40	DIA	NAVICULA MEMBRANACEA
40	DIA	UNIDENTIFIED CENTRIC
40	DIA	CERATAULINA BERGONII
40	DIA	RHIZOSOLENIA SETIGERA
40	DIA	CONSCINODISCUS RADIATUS
20	DIN	CERATIUM FUSUS
20	DIN	GYMNODINIUM SPP.
20	DIA	CHAETOCEROS TETRASTICHON
20	DIA	HEMIAULUS SINENSIS
20	DIA	NAVICULA SPP.
20	DIA	PLEUROSIGMA ANGULATUM
20	DIA	RHIZOSOLENIA ALATA V. ALATA
20	DIA	RHIZOSOLENIA DELICATULA
20	DIA	THALASSIOSIRA DECIPIENS
20	DIA	NITZSCHIA INCERTA
20	SIL	DISTEPHANUS SPECULUM
20	SIL	EBRIA ANTIQUA

5700 =TOTAL ABUNDANCE DIVERSITY = 4.41220

DECEMBER TRANSECT II STATION 3 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
2150	DIA	THALASSIONEMA NITZSCHOIDES
1250	DIA	LEPTOCYLINDRUS MINIMUS
750	DIA	NITZSCHIA DELICATISSIMA
450	DIA	BACTERIASTRUM HYALINUM
400	DIA	RHIZOSOLENIA STOLTERFOTHII
350	DIA	CHAETOCEROS CURVISETUS
250	DIA	CHAETOCEROS DECIPIENS
220	DIN	UNIDENTIFIED DINOFLAGELLATES
200	DIN	GYMNODINIUM SPP.
200	DIA	CHAETOCEROS SPP.
150	DIA	RHIZOSOLENIA ALATA
150	DIA	THALASSIOSIRA DECIPIENS
150	DIA	UNIDENTIFIED PENNATE
150	DIA	NITZSCHIA CLOSTERIUM
100	DIA	RHIZOSOLENIA SPP.
100	DIN	AMPHIDINIUM ACUTISSIMUM
100	DIA	CHAETOCEROS COMPRESSUS
100	DIA	HEMIAULUS MEMBRANACEOUS
50	DIA	RHIZOSOLENIA PUNGENS
50	DIA	PLEUROSIGMA MARIWUM
50	DIA	NITZSCHIA LONGISSIMA
50	DIA	CORETHRON HYSTRIX

7420 =TOTAL ABUNDANCE DIVERSITY = 3.55181

DECEMBER TRANSECT II STATION 3 SURFACE

ABUNDANCE CELLS/LITER	CLASS	SPECIES
1150	DIA	CHAETOCERUS DECIPIENS
1100	DIA	LEPTOCYLINDRUS MINIMUS
1100	DIA	NITZSCHIA DELICATISSIMA
800	DIN	UNIDENTIFIED DINOFLAGELLATES
600	DIA	BACTERIASTRUM HYALINUM
500	DIA	UNIDENTIFIED PENNATE
400	DIA	THALASSIONEMA NITZSCHOIDES
350	DIA	NITZSCHIA LONGISSIMA
300	DIA	NAVICULA MEMBRANACEA
300	DIA	NITZSCHIA SPP.
250	DIA	RHIZOSOLENIA STOLTERFOTHII
200	DIA	RHIZOSOLENIA SPP.
200	DIA	CHAETOCEROS LORENZIANUS
200	DIA	CORETHRON HYSTRIX
150	DIA	RHIZOSOLENIA ALATA
100	DIA	NITZSCHIA CLOSTERIUM
100	DIA	COSCINODISCUS RADIATUS
100	DIA	BIDDULPHIA CHINENSIS
100	DIA	CHAETOCEROS SPP.
100	DIN	AMPHIDINIUM SPP.
100	DIN	GYMNODINIUM SPP.
50	DIA	UNIDENTIFIED CENTRIC
50	DIA	CERATAULINA BERGONII
50	DIA	CHAETOCEROS CURVISETUS
50	DIN	AMPHIDINIUM ACUTISSIMUM
50	SIL	DICTYOCHA FIBULA

8450 =TOTAL ABUNDANCE DIVERSITY = 4.04941

DECEMBER TRANSECT II STATION 3 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
1460	DIA	THALASSIONEMA NITZSCHOIDES
920	DIA	CHAETOCEROS DECIPIENS
840	DIA	NITZSCHIA DELICATISSIMA
620	DIA	RHIZOSOLENIA STOLTERFOTHII
480	DIA	UNIDENTIFIED PENNATE
380	DIA	CHAETOCEROS SPP.
260	DIA	CHAETOCEROS CURVISETUS
240	DIA	NITZSCHIA SPP.
220	DIN	UNIDENTIFIED DINOFLAGELLATES
160	DIA	NITZSCHIA CLOSTERIUM
140	DIA	RHIZOSOLENIA ALATA V. ALATA
120	DIA	CERATAULINA BERGONII
120	DIA	CHAETOCEROS AFFINIS
120	DIA	RHIZOSOLENIA SETIGERA
100	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
100	DIA	NITZSCHIA LONGISSIMA
80	DIA	RHIZOSOLENIA PUNGENS
80	DIA	UNIDENTIFIED CENTRIC
80	DIA	LEPTOCYLINDRUS MINIMUS
80	DIA	NAVICULA MEMBRANACEA
80	SIL	DISTEPHANUS SPECULUM
60	DIN	GYMNODINIUM SPP.
60	DIA	CHAETOCEROS MESSANENSIS
60	DIA	THALASSIOSIRA SPP.
60	DIA	CORETHRON HYSTRIX
60	DIA	DACTYLIOSOLEN ANTARCTICUS
40	DIA	PLEUROSIGMA SPP.
40	DIA	CHAETOCEROS BOREALIS
20	DIN	AMPHIDINIUM SPP.
20	DIN	DINASTRIDIUM SPP.
20	DIA	CHAETOCEROS PERUVIANUS
20	DIA	BACTERIASTRUM HYALINUM
20	DIA	THALASSIOSIRA DECIPIENS
20	DIA	CORETHRON PELAGICUS
20	DIA	COSCINODISCUS SPP.
20	DIA	NAVICULA MARINAE
20	SIL	DICTYOCHA FIBULA

7240 =TOTAL ABUNDANCE DIVERSITY = 4.12241

DECEMBER TRANSECT II STATION 3 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
1240	DIA	THALASSIONEMA NITZSCHOIDES
800	DIA	NITZSCHIA DELICATISSIMA
400	DIA	CHAETOCEROS DECIPIENS
400	DIA	RHIZOSOLENIA STOLTERFOTHII
280	DIA	NITZSCHIA CLOSTERIUM
240	DIA	HEMIAULUS MEMBRANACEOUS
240	DIA	UNIDENTIFIED PENNATE
200	DIA	CHAETOCEROS LORENZIANUS
200	DIA	CYCLOTELLA SPP.
200	DIN	UNIDENTIFIED DINOFLAGELLATES
160	DIA	CHAETOCEROS GLANDAZII
80	DIA	CHAETOCEROS COMPRESSUS
80	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
80	DIA	CHAETOCEROS SPP.
80	DIA	NAVICULA MEMBRANACEA
80	DIA	NAVICULA WARWRIKAE
40	DIA	CERATAULINA BERGONII
40	DIN	PROROCENTRUM MICANS
40	DIA	THALASSIOTHRIX LONGISSIMA

4880 =TOTAL ABUNDANCE DIVERSITY = 3.57635

DECEMBER TRANSECT II STATION 3 1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
1040	DIA	NITZSCHIA DELICATISSIMA
1040	DIA	THALASSIONEMA NITZSCHOIDES
760	DIA	CHAETOCEROS DECIPIENS
360	DIN	UNIDENTIFIED DINOFLAGELLATES
320	DIA	HEMIAULUS MEMBRANACEOUS
320	DIA	UNIDENTIFIED PENNATE
280	DIA	RHIZOSOLENIA STOLTERFOTHII
240	DIA	CHAETOCEROS LORENZIANUS
220	DIA	CYCLOTELLA SPP.
120	DIA	CHAETOCEROS SPP.
120	DIA	NITZSCHIA CLOSTERIUM
120	DIA	NITZSCHIA SPP.
120	DIA	BACTERIASTRUM HYALINUM
80	DIA	CHAETOCEROS DIDYMUS V. PROTUBERANS
40	DIA	BIDDULPHIA SINENSIS
40	DIA	RHIZOSOLENIA CALCAR AVIS
40	DIN	AMPHIDINIUM ACUTISSIMUM
40	DIN	PROROCENTRUM COMPRESSUM

5300 =TOTAL ABUNDANCE DIVERSITY = 3.49812

TABLE 2

COCCOLITHOPHORID ABUNDANCE
BY SAMPLING PERIOD, DEPTH AND STATION

Pages (B-287 through B-288)

COCCOLITHOPHORID ABUNDANCE

PERIOD	TRAN.	STAT.	DEPTH	ABUNDANCE CELLS/LITER
WINTER	I	1	SURFACE	16930
WINTER	I	1	1/2 PHOTIC	12470
WINTER	I	2	SURFACE	16340
WINTER	I	2	1/2 PHOTIC	16070
WINTER	I	3	SURFACE	22570
WINTER	I	3	1/2 PHOTIC	45680
WINTER	II	1	SURFACE	27040
WINTER	II	1	1/2 PHOTIC	20860
WINTER	II	2	SURFACE	20650
WINTER	II	2	1/2 PHOTIC	19300
WINTER	II	3	SURFACE	30290
WINTER	II	3	1/2 PHOTIC	19900
WINTER	III	1	SURFACE	13660
WINTER	III	1	1/2 PHOTIC	8020
WINTER	III	2	SURFACE	28215
WINTER	III	2	1/2 PHOTIC	26730
WINTER	III	3	SURFACE	30590
WINTER	III	3	1/2 PHOTIC	29110
WINTER	IV	1	SURFACE	21090
WINTER	IV	1	1/2 PHOTIC	17820
WINTER	IV	2	SURFACE	30890
WINTER	IV	2	1/2 PHOTIC	30290
WINTER	IV	3	SURFACE	34450
WINTER	IV	3	1/2 PHOTIC	28215

COCCOLITHOPHORID ABUNDANCE

PERIOD	TRAN.	STAT.	DEPTH	ABUNDANCE CELLS/LITER
MARCH	II	1	SURFACE	21060
MARCH	II	1	1/2 PHOTIC	18360
MARCH	II	2	SURFACE	13770
MARCH	II	2	1/2 PHOTIC	15390
MARCH	II	3	SURFACE	11880
MARCH	II	3	1/2 PHOTIC	9180
APRIL	II	1	SURFACE	17010
APRIL	II	1	1/2 PHOTIC	31590
APRIL	II	2	SURFACE	11880
APRIL	II	2	1/2 PHOTIC	6480
APRIL	II	3	SURFACE	15030
APRIL	II	3	1/2 PHOTIC	6210
SPRING	II	2	SURFACE	11230
SPRING	II	2	SURFACE	11720
SPRING	II	3	SURFACE	11230
SPRING	II	3	1/2 PHOTIC	8300
SPRING	III	1	SURFACE	11230
SPRING	III	1	1/2 PHOTIC	15870
SPRING	III	2	SURFACE	9520
SPRING	III	2	1/2 PHOTIC	10745
SPRING	III	3	SURFACE	7080
SPRING	III	3	SURFACE	6590
SPRING	III	3	SURFACE	6350
SPRING	III	3	1/2 PHOTIC	9035
SPRING	IV	1	SURFACE	6350
SPRING	IV	1	1/2 PHOTIC	32720
SPRING	IV	2	SURFACE	8300
SPRING	IV	2	SURFACE	7810
SPRING	IV	2	SURFACE	10590
SPRING	IV	2	1/2 PHOTIC	16850
SPRING	IV	2	1/2 PHOTIC	12700
SPRING	IV	2	1/2 PHOTIC	14650
SPRING	IV	3	SURFACE	15140
SPRING	IV	3	1/2 PHOTIC	10010

COCCOLITHOPHORID ABUNDANCE

PERIOD	TRAN.	STAT.	DEPTH	ABUNDANCE CELLS/LITER
JULY	II	1	SURFACE	8790
JULY	II	1	1/2 PHOTIC	3910
JULY	II	2	SURFACE	12210
JULY	II	2	1/2 PHOTIC	11230
JULY	II	3	SURFACE	4880
JULY	II	3	1/2 PHOTIC	7080
FALL	I	1	SURFACE	15860
FALL	I	1	1/2 PHOTIC	14880
FALL	I	2	SURFACE	11220
FALL	I	2	1/2 PHOTIC	11470
FALL	I	3	SURFACE	6100
FALL	I	3	1/2 PHOTIC	10250
FALL	II	1	SURFACE	16590
FALL	II	1	1/2 PHOTIC	14640
FALL	II	2	SURFACE	18300
FALL	II	2	1/2 PHOTIC	11470
FALL	II	3	SURFACE	20980
FALL	II	3	1/2 PHOTIC	17810
FALL	III	1	SURFACE	16100
FALL	III	1	1/2 PHOTIC	18790
FALL	III	2	SURFACE	14880
FALL	III	2	1/2 PHOTIC	15130
FALL	III	3	SURFACE	10980
FALL	III	3	1/2 PHOTIC	18300
FALL	IV	1	SURFACE	13910
FALL	IV	1	1/2 PHOTIC	11220
FALL	IV	2	1/2 PHOTIC	22200
FALL	IV	2	SURFACE	15620
FALL	IV	3	SURFACE	12690
FALL	IV	3	1/2 PHOTIC	8300

COCCOLITHOPHORID ABUNDANCE

PERIOD	TRAN.	STAT.	DEPTH	ABUNDANCE CELLS/LITER
AUGUST	II	1	SURFACE	12700
AUGUST	II	1	1/2 PHOTIC	15870
AUGUST	II	2	SURFACE	11480
AUGUST	II	2	1/2 PHOTIC	16850
AUGUST	II	3	SURFACE	1343
AUGUST	II	3	1/2 PHOTIC	13920
NOVEMBER	II	1	SURFACE	16350
NOVEMBER	II	1	1/2 PHOTIC	12200
NOVEMBER	II	2	SURFACE	16100
NOVEMBER	II	2	1/2 PHOTIC	26350
NOVEMBER	II	3	SURFACE	31960
NOVEMBER	II	3	1/2 PHOTIC	30010
DECEMBER	II	1	SURFACE	24400
DECEMBER	II	1	1/2 PHOTIC	22940
DECEMBER	II	2	SURFACE	27820
DECEMBER	II	2	1/2 PHOTIC	25860
DECEMBER	II	3	SURFACE	28060
DECEMBER	II	3	1/2 PHOTIC	54900

APPENDIX C

SHELLED MICROZOOPLANKTON, GENERAL MICROPLANKTON AND SHELLED MICROZOOBENTHOS OF THE SOUTH TEXAS OUTER CONTINENTAL SHELF

List of Tables

TABLE 1

WINTER SEASONAL ABUNDANCES OF SHELLED MICROPLANKTON
IN NANSEN (INTEGRATED DEPTH) SAMPLES

Explanation of Table 1:

Abundance is expressed as living individuals/m^3;
Empty tests/m^3 are shown in parentheses

TABLE 1 CONT.'D

TRANSECT	I			II		
STATION	1	2	3	1	2	3
Pteropods						
Limacina leseuri	3.93		0.54	1.69	0.75	0.27
Limacina inflata	1.97	0.88	11.98	1.69	7.53	5.17
Creseis acicula			6.26		4.52	2.45
Euclio campylura			0.54			
Creseis virqula constricta			0.82			0.54
Clio polita			0.27			
?Peraclis						
Total:	5.89	0.88	20.41	3.37	12.80	8.44

TABLE 1 CONT.'D

TRANSECT	III			IV		
STATION	1	2	3	1	2	3
Pteropods						
Limacina leseuri	1.42	4.90	24.7	2.62	7.53	14.94
Limacina inflata	2.83	11.43	10.3		0.75	1.97
Creseis acicula		8.17	18.03		25.6	3.93
Euclio campylura			3.0			1.18
Creseis virgula constricta			2.0			2.36
Clio polita		1.09				
?Peraclis			0.33			
Total:	4.25	25.59	58.42	2.62	33.88	24.38

TABLE 1 CONT.'D

TRANSECT	I			II		
STATION	1	2	3	1	2	3
Planktonic Foraminiferans						
Globigerina bulloides		1.77	0.82		3.01	0.82
Globigerina falconensis	15.73	15.92	6.26 (0.27)		20.33 (0.75)	4.90
Globigerina inflata						
Globigerina quinqueloba		34.5	3.54 (0.82)		33.13 (0.75)	83.67
Globigerina rubescens					0.75	
Globigerina ?		0.88				
Globigerinella aequilateralis	1.97	0.88	0.27		3.01	
Globigerinoides ruber		0.88	1.36		3.01	0.82
Globorotalia menardii						
Globorotalia truncatulinoides			0.54			0.27
Hastingerina pelagica						

TABLE 1 CONT.'D

TRANSECT	III			IV		
STATION	1	2	3	1	2	3
Globigerina bulloides		0.53	5.68		3.01	3.93
Globigerina falconensis		4.90	18.69		15.06	10.62
Globigerina inflata			0.33			
Globigerina quinqueloba		13.61	12.69		14.30	28.3
Globigerina rubescens						
Globigerina ?						
Globigerinella aequilateralis						0.39
Globigerinoides ruber		1.63	2.0			7.86
Globorotalia menardii						0.39
Globorotalia truncatulinoides		0.53	5.0			0.79
Hastigerina pelagica		0.53				0.79

TABLE 1 CONT.'D

TRANSECT	I			II		
STATION	1	2	3	1	2	3
Orbulina universa						
Pulleniatina obliquiloculata						
Broken planktonics		4.42	(3.37)		22.59	
Benthonic Foraminiferans						
Bolivina lowmani				3.58	18.07	
Bolivina spinata		0.88			0.75	
Cassidulina subglobosa					3.01	
Eponides tumidulus			(3.37)			
Nioionella atlantica	1.97					
Pseudononion atlanticus				3.58		
Pseudoparrella decorata			(1.59)			
Pseudoparella exigua			(0.75)			

TABLE 1 CONT.'D

TRANSECT	III			IV		
STATION	1	2	3	1	2	3
Orbulina universa			0.33			
Pulleniatina obliquiloculata			0.66			
Broken planktonics			5.0		21.83	6.68
Bolivina lowmani	1.42		0.33	2.62	7.52	

TABLE 1 CONT.'D

TRANSECT		I			II		
STATION		1	2	3	1	2	3
Benthonic Foraminiferans							
Textularia parvula							
Uvigerina parvula							(0.75)
Broken benthonics			0.88				
Total:	live	19.66	61.04	12.79	6.74	107.66	8.98
	dead	0	0.88	1.09	8.43	3.01	0

TABLE 1 CONT.'D

TRANSECT		III			IV		
STATION		1	2	3	1	2	3
Benthonic Foraminiferans							
<u>Textularia parvula</u>							
<u>Uvigerina parvula</u>			0.53				
Broken benthonics		1.42					
Total:	live	2.83	22.32	50.74	2.62	61.74	59.76
	dead	0	0	0	0	0	0

TABLE 1 CONT.'D

TRANSECT	I			II		
STATION	1	2	3	1	2	3
Radiolarians						
Spongaster tetras tetras					0.75	
Acantharians				3.37		
Spongaster cruciferus						
Spongaster pentas					0.75	
"circular" Spongodiscid					0.75?	
Hymeniastrum profundym		4.42	0.82		7.53	
Spongopyle osculosa						0.27
Euchitonia furcata		1.77	0.27			0.27
Euchitonia elegans					0.75	
?Stylodictya heliospira					0.75	
Spongotrochus glacialis		1.77	0.54		7.52	

TABLE 1 CONT.'D

TRANSECT	III			IV	
STATION	1	2	3	1	2	3
Radiolarians						
Spongaster tetras tetras				1.51		
Acantharians						1.57
Spongaster cruciferus						0.79
Spongaster pentas						
"circular" Spongodiscid						
Hymeniastrum profundum		1.63	3.00		12.8	3.54
Spongopyle osculosa		1.09				
Euchitonia furcata			0.33		2.26	1.97
Euchitonia elegans		1.09				0.39
?Stylodictya heliospira		0.54	1.00		0.75	1.97
Spongotrochus glacialis		0.54	2.34			7.47 (0.39)

TABLE 1 CONT.'D

TRANSECT	I			II		
STATION	1	2	3	1	2	3
Radiolarians						
Heliodiscus echiniscus						
Choenicosphaera murrayana			0.27			
Tetrapyle octacantha					0.75	
Hexapyle dodecantha					(0.75)	
Omnatartus tetrathalamus			0.27			
Spongosphaera (Hexadoridiam) streptacantha	41.28	1.77	0.27	3.37	23.34	0.27
Drymosphaera polygonalis						
Cladococcus scoparius					0.75	
Collosphaera sp. C						
Disolenia zanguebarica				6.53		
D-ring ?	1.51					
Cenosphaera sp. R		21.2	0.27			
Large Cenosphaera			0.27		1.51	

TABLE 1 CONT.'D

TRANSECT	III			IV		
STATION	1	2	3	1	2	3
Radiolarians						
Heliodiscus echiniscus					0.75	0.39
Choenicosphaera murrayana						0.39
Tetrapyle octacantha			0.67			0.39
Hexapyle dodecantha						(0.39)
Omnatartus tetrathalamus			0.33			1.18
Spongosphaera (Hexadoridiam) streptacantha			1.00		4.52	2.0 (0.39)
Drymosphaera polygonalis						0.39
Cladococcus scoparius						
Collosphaera sp. C						1.57
Disolenia zanguebarica						9.04
D-ring?						
Cenosphaera sp. R			3.00			0.79
Large Cenosphaera			0.67		0.75	2.36

TABLE 1 CONT.'D

TRANSECT	I			II		
STATION	1	2	3	1	2	3
Radiolarians						
Cubosphaera gen			7.35	3.37	27.10	0.27
Juvenile sphaeroid						
basket sp.						
Acantho-desmia viniculata	3.93				0.75	
Helotholus Sp. #3						
Lamprocyclas maritalis polypora			0.54		0.75	
Pterocorys zancleus						
Lipmanella vichowii						
Eucyrtidium acuminatum			0.54			
Spyroid sp.			2.26		0.75	
Pterocanium praetextum praetextum			0.27			
Pterocanium praetextum eucolpum						
Theocorythium traechelium						
Totals: live	47.2	9.73	10.62	3.37	51.9	0.82
dead	0	0	0.27	0	0.75	0

TABLE 1 CONT.'D

TRANSECT	III			IV		
STATION	1	2	3	1	2	3
Radiolarians						
Cubosphaera gen			0.33			3.15 (0.79)
Juvenile sphaeroid			5.01 (0.33)		5.27	5.90
basket sp.						0.93
Acantho-desmia viniculata						3.15 (0.39)
Helotholus Sp. #3						0.39
Lamprocyclas maritalis polypora						0.79
Pterocorys zancleus						1.18
Lipmanella vichowii						2.36
Eucyrtidium acuminatum			0.33 (0.33)			3.54
Spyroid sp.						0.39
Pterocanium praetextum praetextum						0.79
Pterocanium praetextum eucolpum			0.33			(0.39)
Theocorythium traechelium						0.39
Totals: live	0	4.9	13.35	0	23.3	58.6
dead	0	0	0.66	0	0	3.92

TABLE 2

SPRING-SUMMER SEASONAL ABUNDANCES OF SHELLED MICROPLANKTON
IN NANSEN (INTEGRATED DEPTH) SAMPLES

Explanation of Table 2:

Abundance is expressed as living individuals/m^3;
Empty tests/m^3 are shown in parentheses

TABLE 2 CONT.'D

MAY, 1976 TRANSECT	I			II		
	1	2	3	1	2	3
Ostracodes		51.0			14.9	.7
Bivalve veligers				1.3	1.7	
Gastropod veligers	4.6		.4		1.7	
Pteropods	345	953	(.2) 3.8	50.1	72.0	1.0
		(4)		(20)	(.6)	
Creseis acicula	337	551	.2	48.8	52.0	.4
				(20.0)		
Spiratella inflata	26.2	401	3.6	1.3	20.0	.6
		4.0			6.0	
Spiratella lesueuri	1.5					
Clio polita						
Cavolina longirostrus						
Benthonic foraminiferans	18.5	14.0	.6	3.8	4.0	
		(1.4)			(.6)	
Haplophragmoides sp.						
Nonion scaphum						
Bolivina lowmani	7.7	10.0	.4	3.8	4.0	
		(.7)			(.6)	
Anomalina sp.		.7	.2			
		(.7)				
Bolivina subaenariensis						
Valvulineria sp.						
Uvigerina sp.						
Bulimina striata						
Lagena sulcata						
Lagena subglobosa						
Cassidulina sp.		3.3				
Lenticulina gibba						
Cancris oblongus						
Nodosaria sp.						
Virginulina sp.						

TABLE 2 CONT.'D

MAY, 1976 TRANSECT	III			IV		
	1	2	3	1	2	3
Ostracodes			2.6			
Bivalve veligers			.3	4.4		1.6
Gastropod veligers			.3	12.8		2.2
Pteropods	94.5	3.3	40.3	993		140
Creseis acicula	88.3	2.6	17.1	823		93.4 (.3)
Spiratella inflata	10.0	.7	22.9	56.7		45.0
Spiratella lesueuri	1.1		.3	113		
Clio polita						
Cavolina longirostrus						
Benthonic foraminiferans		.4		6.6		.6
Haplophragmoides sp.						.3
Nonion scaphum						
Bolivina lowmani		.4		5.5		.3
Anomalina sp.						
Bolivina subaenariensis						
Valvulineria sp.				1.1		
Uvigerina sp.						
Bulimina striata						
Lagena sulcata						
Lagena subglobosa						
Cassidulina sp.						
Lenticulina gibba						
Cancris oblongus						
Nodosaria sp.						
Virginulina sp.						

TABLE 2 CONT.'D

MAY, 1976 TRANSECT	I			II		
	1	2	3	1	2	3
Benthonic forams cont.						
Bulimina gibba	29.2					
Quinqueloculina sp.						
Planktonic foraminiferans	3.1	12.0	2.5		.6	.6
		(2.0)	(.4)			
Globigerinoides sacculifer		.7				
Globigerinoides ruber	3.1	8.6	1.9		.6	.2
		(1.3)	(.4)			
Globigerina bulloides						
Globigerina quinqueloba						
			(.2)			
Globigerina calida		.7	.4			
Globorotalia inflata						
Globorotalia crassiformis						
Globorotalia scitula		.7				
		(.7)				
Hastigerina pelagica						
Orbulina universa						
Globigerinella aequilateralis						.2
Juveniles						
Acantharian radiolarians	12.3	504	2.9	20.0	93.1	17.4
		(5.3)			(.6)	(.2)
Challengeriids			3.8		.6	.2
Polycystine radiolarians	4.6	18.7	33.3	1.3	14.9	5.6
		(27.3)	(1.5)			
Spumellarians	3.1	14.0	16.2	1.3	13.1	5.0
		(23.3)	(.2)			
Nassellarians	1.5	4.6	17.1		1.7	.6
		.4	1.3			

TABLE 2 CONT.'D

MAY, 1976 TRANSECT	III			IV		
	1	2	3	1	2	3
Benthonic forams cont.						
Bulimina gibba						
Quinqueloculina sp.						
Planktonic foraminiferans	2.2	.4	.1	6.7		4.7 (3.8)
Globigerinoides sacculifer						
Globigerinoides ruber	2.2	.4	.1	6.7		
Globigerina bulloides						1.9 (1.9)
Globigerina quinqueloba						
Globigerina calida						
Globorotalia inflata						
Globorotalia crassiformis						
Globorotalia scitula						
Hastigerina pelagica						
Orbulina universa						
Globigerinella aequilateralis						
Juveniles						2.5 (1.6)
Acantharian radiolarians	41.1	53.0	1.3	91.1		5.3
Challengeriids			10.1 (5.3)			10.9
Polycystine radiolarians	6.7	5.7	15.5 (1.6)	18.9		2.8 (.3)
Spumellarians	6.7	5.7	11.5 (1.6)	18.9		2.8 (.3)
Nassellarians			4.0			

TABLE 2 CONT.'D

MAY, 1976 TRANSECT	I			II		
	1	2	3	1	2	3
Juvenile radiolarian						
Collosphaera sp. A			1.9			
Collosphaera sp. B			.2			
Polysolenia lappacea						
Disolenia zanguebarica						
Choenicosphaera murrayana						
Hexalonche anaximandri			.2			
Actinomma medullary shell	3.1	4.0	2.1		1.7	1.7
Actinomma sp. A						
Actinomma sp. B						
Actinomma sp. E						
Actinomma sp. F			.4			1.2
Actinomma sp. I						.4
Actinomma sp. K						
Actinomma sp. L						
Actinomma sp. M						
Actinomma sp. N		1.3				
Xiphosphaera tesserectis						.2
Cladococcus scoparius						
Astrosphaera hexagonalis		.7	.4			
Drymosphaera polygonalis						.4
Stylocontarium bisopculum						
Cenosphaera sp. B		(4.6)				
Cenosphaera sp. E						
Cenosphaera sp. F			.2			

TABLE 2 CONT.'D

MAY, 1976

TRANSECT	III			IV		
	1	2	3	1	2	3
Juvenile radiolarian						
Collosphaera sp. A						
Collosphaera sp. B						
Polysolenia lappacea						
Disolenia zanguebarica						
Choenicosphaera murrayana						
Hexalonche anaximandri						.3
Actinomma medullary shell			1.3			
Actinomma sp. A						
Actinomma sp. B						
Actinomma sp. E						
Actinomma sp. F						
Actinomma sp. I	5.5	4.3				
Actinomma sp. K						
Actinomma sp. L						
Actinomma sp. M						
Actinomma sp. N						
Xiphosphaera tesserectis						
Cladococcus scoparius			(.3)			
Astrosphaera hexagonalis						
Drymosphaera polygonalis			.3			
Stylocontarium bisopculum			.3			
Cenosphaera sp. B						
Cenosphaera sp. E						1.3
Cenosphaera sp. F						(.3)

TABLE 2 CONT.'D

MAY, 1976 TRANSECT	I			II		
	1	2	3	1	2	3
Cenosphaera sp. G					5.1	
Cenosphaera sp. H						.9
Cenosphaera sp. I						
Cenosphaera sp. J			.6			
Cenosphaera sp. K						
Cenosphaera sp. L						
Cenosphaera sp. M						.2
Cenosphaera sp. N			.4			
Cenosphaera sp. O			.8			.4
Cenosphaera sp. P						
Cenosphaera sp. Q						
"Fuzzyball"		2.0	.2 (.2)			.9
Ommatartus tetrathalamus		1.3	.4			.2 (.2)
Stylodictya multispina			1.4			.6
Staurodictya sp.						
Stylodictya heliospira						
Stylochlamidium asteriscus						
Trizonium sp.						
Tetrapyle octacantha			1.7		2.2 (.6)	.4 (.2)
Heliodiscus echiniscus						.9
Amphirhopalum ypsilon						
Hymeniastrum profundum		3.3 (.6)	2.1 (.8)		1.7	.6
Spongodiscus resurgens						
Spongobrachium ellipticum						
Euchitonia sp.			.8			.6

TABLE 2 CONT.'D

MAY, 1976 TRANSECT	III			IV		
	1	2	3	1	2	3
Cenosphaera sp. G						
Cenosphaera sp. H						.3
Cenosphaera sp. I			.3			
Cenosphaera sp. J						
Cenosphaera sp. K						
Cenosphaera sp. L			.5			
Cenosphaera sp. M						
Cenosphaera sp. N						
Cenosphaera sp. O		.9	(.3)			
Cenosphaera sp. P						
Cenosphaera sp. Q						
"Fuzzyball"			.5	3.3		.3
Ommatartus tetrathalamus			.3 (.3)			
Stylodictya multispina						
Staurodictya sp.						
Stylodictya heliospira						
Stylochlamidium asteriscus						
Trizonium sp.			.3			
Tetrapyle octacantha			1.1 (.5)			
Heliodiscus echiniscus						
Amphirhopalum ypsilon			.3			
Hymeniastrum profundum		.4	2.9	1.1		
Spongodiscus resurgens						
Spongobrachium ellipticum			.3			
Euchitonia sp.						

TABLE 2 CONT.'D

MAY, 1976 TRANSECT	I			II		
	1	2	3	1	2	3
Euchitonia elegans						
Euchitonia furcata		.3				
Spongaster sp.(juven.)					2.3	
"Circular" spongodiscid		(.6)				
"Ellipti al" spongodiscid						
Spongaster pentas					.6	
Spongaster tetras tetras		(.6)	.2		.6	
Spongaster tetras irregularis		(.7)				
Spongocore puella						
Spongotrochus glacialis			2.3		1.1	.9
Spongotrochus scutella			.2		(.6)	(.2)
Lithelius alveolina						
Lithelius minor						
"6-arm star"		.7			2.3	
"5-arm star"		(.7)				
Hexadoridium sp.		.7	.2			.2
Corocalyptra sp.						
Corocalyptra craspedota			.2			
Theopilium tricostatum			.2			.2
Eucyrtiid sp. A						
Lampromitra parabolica						.2
Eucyrtiid sp. B			.4			
Lipmanella virchowii			(.2)			
Eucyrtidium hexagonatum			2.9			1.1

TABLE 2 CONT.'D

MAY, 1976 TRANSECT	III			IV		
	1	2	3	1	2	3
Euchitonia elegans						
Euchitonia furcata						
Spongaster sp.(juven.)						
"Circular" spongodiscid			.3			
"Ellipti al" spongodiscid						
Spongaster pentas						
Spongaster tetras tetras						
Spongaster tetras irregularis						
Spongocore puella						
Spongotrochus glacialis			1.6 (.3)			.3
Spongotrochus scutella						
Lithelius alveolina						
Lithelius minor						.3
"6-arm star"	1.1			12.2		1.3
"5-arm star"				2.2		
Hexadoridium sp.			.4 (.3)			
Corocalyptra sp.						
Corocalyptra craspedota						
Theopilium tricostatum						
Eucyrtiid sp. A						
Lampromitra parabolica						
Eucyrtiid sp. B						
Lipmanella virchowii			.5			
Eucyrtidium hexagonatum						

TABLE 2 CONT.'D

MAY, 1976

TRANSECT	I			II		
	1	2	3	1	2	3
Eucyrtidium acuminatum						.6
Lithopera bacca						
Pterocanium praetextum praetextum		.7	3.6			3.2
Pterocanium praetextum eucolpum						1.1
Pterocanium trilobum			.2			1.7
Siphocampe sp.		(.7)				
Spirocyrtis scalaris						.4
Pterocorys zancleus		1.3 (1.3)	3.4			1.5
Anthocyrtidium sp.						
Anthocyrtidium cineraria			2.3			.4
Lamprocyclas sp. (juvenile)						
Lamprocyclas nupitalis						.6
Lamprocyclas cranoides			.6			.6
Theoconus hertwigii			.6			.2
Litharachnium tentorum						.4
Botryocyrtis scutum			.2			
Lithomelissa sp.						
Lophophaena sp. A			.2			
Lophophaena sp. B						
Lophophaena hispida						
Lophophaena cylindrica		.7	.4 (.2)			1.5
Peromelissa phalacra						
Peromelissa sp.						
Clathrocanium coronatum						.2

TABLE 2 CONT.'D

MAY, 1976

TRANSECT	III			IV		
	1	2	3	1	2	3
Eucyrtidium acuminatum			.3			
Lithopera bacca						
Pterocanium praetextum praetextum						
Pterocanium praetextum eucolpum			.3			
Pterocanium trilobum						
Siphocampe sp.						
Spirocyrtis scalaris			.3			
Pterocorys zancleus			.5			
Anthocyrtidium sp.						
Anthocyrtidium cineraria			.3			
Lamprocyclas sp. (juvenile)						
Lamprocyclas nupitalis			.3			
Lamprocyclas cranoides			.3			
Theoconus hertwigii						
Litharachnium tentorum						
Botryocyrtis scutum						
Lithomelissa sp.						
Lophophaena sp. A						
Lophophaena sp. B						
Lophophaena hispida			.3			
Lophophaena cylindrica			.5			
Peromelissa phalacra						
Peromelissa sp.						
Clathrocanium coronatum						

TABLE 2 CONT.'D

MAY, 1976 TRANSECT	I			II		
	1	2	3	1	2	3
Callimitra emmae			.2			.6
Zygocyrcus sp.						.2
Acanthodesmia viniculata	.5	2.0	.6			1.0
Amphispyris costata						
Spyroid sp.						.2
Ceratospyris sp.		(.7)				

TABLE 2. CONT.'D

MAY, 1976 TRANSECT	III			IV		
	1	2	3	1	2	3
Callimitra emmae						
Zygocyrcus sp.						
Acanthodesmia viniculata			.3			
Amphispyris costata						
Spyroid sp.						
Ceratospyris sp.						

TABLE 3

SUMMER-FALL SEASONAL ABUNDANCES OF SHELLED MICROPLANKTON
IN NANSEN (INTEGRATED DEPTH) SAMPLES

Explanation of Table 3:

Abundance is expressed as living individuals/m^3;
Empty tests/m^3 are shown in parentheses

TABLE 3 CONT.'D

SEPTEMBER, 1976 TRANSECT	I			II		
	1	2	3	1	2	3
Ostracodes						
Bivalve veligers	69.2 (3.1)	620 (2.7)	6.7	103 (2.5)	16.0 (.6)	31.0 (1.3)
Gastropod veligers	1.5	40.0 (.7)	.4	17.5	.6	3.7
Pteropods	275 (9.2)	263 (10.2)	112	92.5 (8.8)	108 (6.8)	50.3 (5.8)
Creseis acicula	24.6 (1.5)	24.0 (1.3)	1.4 (.2)	75.0 (7.5)	21.7 (1.7)	6.5 (1.5)
Spiratella inflata	246 (7.7)	191 (8.7)	110 (5.3)	13.7 (1.3)	75.4 (5.1)	41.9 (4.1)
Spiratella lesueuri	4.6	48.0 (2.0)	.4	3.8	5.7	1.5
Clio polita			.4		4.6	.4 (.2)
Cavolina longirostrus					.6	
Benthonic foraminiferans	1226 (3.0)	396 (2.7)	.2	905 (40.0)	2.3	.8 (.4)
Haplophragmoides sp.						
Nonion scaphum						
Bolivina lowmani	1226 (3.0)	375 (2.7)	.2	905 (40.0)	1.7	.4 (.4)
Anomalina sp.						
Bolivina subaenariensis		16.7 (2.0)				
Valvulineria sp.					.6	
Uvigerina sp.		3.3				
Bulimina striata		.7				.4
Lagena sulcata						
Lagena subglobosa						
Cassidulina sp.						
Lenticulina gibba						
Cancris oblongus						
Nodosaria sp.						
Virginulina sp.						

(1.5)

TABLE 3 CONT.'D

SEPTEMBER, 1976 TRANSECT	III			IV		
	1	2	3	1	2	3
Ostracodes						
Bivalve veligers	453	39.1 (4.3)	45.6 (1.1)	46.6	110 (1.3)	6.9 (.3)
Gastropod veligers	17.8	7.0 (.9)	1.1	13.3	6.3	1.3 (.3)
Pteropods	617 (22.2)	104 (7.3)	49.1 (5.6)	154	141 (3.8)	38.1 (3.1)
Creseis acicula	413 (17.8)	17.8 (.4)	8.3 (.5)	35.6	26.3 (1.3)	2.2 (.3)
Spiratella inflata	191 (4.4)	77.0 (4.8)	38.4 (5.1)	83.3	107 (2.5)	32.5 (2.2)
Spiratella lesueuri	13.3	5.2 (.4)	1.9	11.1	1.9	2.5 (.3)
Clio polita		4.3 (1.7)	.5	24.4	5.0	.9 (.3)
Cavolina longirostrus						
Benthonic foraminiferans	783 (1.1)	7.8 (1.2)	.8 (2.5)	74.4 (210)	.7 (2.0)	1.3
Haplophragmoides sp.		(.4)				
Nonion scaphum	(1.1)					
Bolivina lowmani	782	7.4 (.4)	(1.9)	644 (52.2)	.7	1.3
Anomalina sp.				(1.1)		
Bolivina subaenariensis				(36.7)		
Valvulineria sp.					(1.3)	
Uvigerina sp.		(.4)				
Bulimina striata		.4				
Lagena sulcata						
Lagena subglobosa			.3 (.3)			
Cassidulina sp.			(.3)			
Lenticulina gibba			.5	10.0 (68.9)		
Cancris oblongus				(12.2)		
Nodosaria sp.						
Virginulina sp.						

TABLE 3 CONT.'D

SEPTEMBER, 1976 TRANSECT	I			II		
	1	2	3	1	2	3
Benthonic forams cont.						
Bulimina gibba						
Quinqueloculina sp.						
Planktonic foraminiferans		61.4 (2.7)	23.1 (3.4)	1.3	34.3 (.6)	9.0 (1.2)
Globigerinoides sacculifer						
Globigerinoides ruber		34.7 (2.0)	3.8 (1.5)	1.3	12.0 (.6)	4.1 (.2)
Globigerina bulloides		6.0	9.9 (1.3)		1.7	3.9 (.6)
Globigerina quinqueloba			.6		.6	(.2)
Globigerina calida			1.3			.2
Globorotalia inflata						
Globorotalia crassiformis			.2			.2
Globorotalia scitula						
Hastigerina pelagica		.7	.2		.6	.6 (.2)
Orbulina universa			.4			
Globigerinella aequilateralis			.2			
Juveniles		20.0 (.7)	6.5 (.6)		19.4	
Acantharian radiolarians		13.3	37.4	7.5 (1.3)	5.1	18.9
Challengeriids		.7	.6		.6	.2
Polycystine radiolarians	12.3	55.3 (1.3)	69.9 (10.5)	2.5	61.7 (2.9)	47.1 (4.1)
Spumellarians	12.3	52.7 (.7)	34.3 (2.3)	2.5	57.1 (2.9)	35.9 (.9)
Nassellarians		2.7 (.7)	35.6 (8.4)		4.6	11.2 (3.2)

TABLE 3 CONT.'D

SEPTEMBER, 1977 TRANSECT	III			IV		
	1	2	3	1	2	3
Benthonic forams cont.						
Bulimina gibba						
Quinqueloculina sp.				(2.2)		
Planktonic foraminiferans	6.7	22.1 (.4)	9.4 (4.6)		37.1 (.7)	43.5 (4.7)
Globigerinoides sacculifer						
Globigerinoides ruber	6.7	12.6 (.4)	2.1 (2.1)		18.8 (.7)	27.5 (2.2)
Globigerina bulloides		7.8	4.5 (1.9)		11.3	8.8 (2.5)
Globigerina quinqueloba			.3			1.3
Globigerina calida		1.7	.5		.7	5.6
Globorotalia inflata			(.3)			
Globorotalia crassiformis			(.3)			
Globorotalia scitula						
Hastigerina pelagica						.3
Orbulina universa						
Globigerinella aequilateralis						
Juveniles			2.4		6.3	
Acantharian radiolarians	4475 (26.7)	48.3 (.4)	9.9	4.4	15.6	29.1
Challengeriids			1.3			.3
Polycystine radiolarians	8.9	65.7 (.4)	14.7 (.3)	24.4 (1.1)	66.9 (3.8)	141 (3.2)
Spumellarians	8.9	53.9	11.4	24.4 (1.1)	35.8 (1.9)	78.2 (1.3)
Nassellarians		11.7 (6.5)	3.2 (.3)		31.3 (1.9)	63.2 (1.9)

TABLE 3 CONT.'D

SEPTEMBER, 1976 TRANSECT	I			II		
	1	2	3	1	2	3
Juvenile radiolarian					.6	.4
Collosphaera sp. A						
Collosphaera sp. B						
Polysolenia lappacea	12.3	.7				
Disolenia zanguebarica						19.3
Choenicosphaera murrayana			(.2) .2			
Hexalonche anaximandri			1.1		2.3	.6
Actinomma medullary shell		.7	.2		4.0	.9
Actinomma sp. A			(.2) .4			
Actinomma sp. B						
Actinomma sp. E			.2			
Actinomma sp. F						
Actinomma sp. I						
Actinomma sp. K						.2
Actinomma sp. L						1.1
Actinomma sp. M			.2			
Actinomma sp. N						
Xiphosphaera tesserectis		.6	.2			
Cladococcus scoparius			(.2)			
Astrosphaera hexagonalis		2.7				(.2) .9
Drymosphaera polygonalis						
Stylocontarium bisopculum			.2			.4
Cenosphaera sp. B			(.2)			
Cenosphaera sp. E			.4			
Cenosphaera sp. F						

TABLE 3 CONT.'D

SEPTEMBER, 1976 TRANSECT	III			IV		
	1	2	3	1	2	3
Juvenile radiolarian						1.6
Collosphaera sp. A			.5			
Collosphaera sp. B						.3
Polysolenia lappacea						
Disolenia zanguebarica		29.1				12.5
Choenicosphaera murrayana						
Hexalonche anaximandri			.5			2.8
Actinomma medullary shell	1.1	.4		1.1		(.3) 1.9
Actinomma sp. A						.3
Actinomma sp. B		.4				
Actinomma sp. E						
Actinomma sp. F						
Actinomma sp. I						.3
Actinomma sp. K						
Actinomma sp. L						
Actinomma sp. M						
Actinomma sp. N						(.3)
Xiphosphaera tesserectis		.4		1.1		2.2
Cladococcus scoparius					(.6)	(.3)
Astrosphaera hexagonalis		.4				
Drymosphaera polygonalis						.3
Stylocontarium bisopculum						1.3
Cenosphaera sp. B						.3
Cenosphaera sp. E						.3
Cenosphaera sp. F						

TABLE 3 CONT.'D

SEPTEMBER, 1976 TRANSECT	I			II		
	1	2	3	1	2	3
Cenosphaera sp. G						.2
Cenosphaera sp. H			.2 (.2)			
Cenosphaera sp. I						
Cenosphaera sp. J			.2			.4
Cenosphaera sp. K						.2
Cenosphaera sp. L						
Cenosphaera sp. M						
Cenosphaera sp. N						
Cenosphaera sp. O						
Cenosphaera sp. P						
Cenosphaera sp. Q						
"Fuzzyball"		.6			.6	
Ommatartus tetrathalamus		4.7	4.2	1.3	1.7	.6
Stylodictya multispina			.4			
Staurodictya sp.			.2			
Stylodictya heliospira						.2
Stylochlamidium asteriscus			.4 (.2)			.4
Trizonium sp.			.4			
Tetrapyle octacantha			1.1			.2
Heliodiscus echiniscus						.2
Amphirhopalum ypsilon			.2 (.2)			.2
Hymeniastrum profundum		17.3 (2.0)	10.4	1.2	25.8 (2.2)	5.0
Spongodiscus resurgens		2.0	2.3		4.0	
Spongobrachium ellipticum						
Euchitonia sp.		8.0	6.7		5.7	1.3

TABLE 3 CONT.'D

SEPTEMBER 1976 TRANSECT	III			IV		
	1	2	3	1	2	3
Cenosphaera sp. G						1.8
Cenosphaera sp. H						
Cenosphaera sp. I						
Cenosphaera sp. J			.5			.3
Cenosphaera sp. K						
Cenosphaera sp. L						
Cenosphaera sp. M						
Cenosphaera sp. N						
Cenosphaera sp. O					.6	
Cenosphaera sp. P						(.3)
Cenosphaera sp. Q			.5			8.4
"Fuzzyball"					.3	1.6
Ommatartus tetrathalamus	1.1	1.7	.5		1.8	6.8
Stylodictya multispina						2.8
Staurodictya sp.						
Stylodictya heliospira						
Stylochlamidium asteriscus						.6
Trizonium sp.						.3
Tetrapyle octacantha					1.3	(.3)
Heliodiscus echiniscus						.3
Amphirhopalum ypsilon			.3			.3
Hymeniastrum profundum		8.2	4.6	7.8	15.6	14.6
Spongodiscus resurgens		1.3	.5	2.2	3.1	
Spongobrachium ellipticum						
Euchitonia sp.		1.7	.8	7.8	5.0	6.6
						(.3)

TABLE 3 CONT.'D

SEPTEMBER, 1976 TRANSECT	I			II		
	1	2	3	1	2	3
Euchitonia elegans		3.3	.8		8.0	4.3
Euchitonia furcata			(.1)			
Spongaster sp.(juven.)		4.0	1.9			.4
"Circular" spongodiscid		2.0	.2			
"Ellipti al" spongodiscid						.2
Spongaster pentas		2.0	.6		1.7	.2
Spongaster tetras tetras		4.0 (.7)	1.2		3.4	.6
Spongaster tetras irregularis						
Spongocore puella						.2
Spongotrochus glacialis			1.1		3.4	1.7
Spongotrochus scutella						
Lithelius alveolina						
Lithelius minor						
"6-arm star"						
"5-arm star"		.7				
Hexadoridium sp.						
Corocalyptra sp.						(.2)
Corocalyptra craspedota						
Theopilium tricostatum						.2
Eucyrtiid sp. A						.2
Lampromitra parabolica						
Eucyrtiid sp. B						
Lipmanella virchowii		1.3				
Eucyrtidium hexagonatum		1.3	(.2)			

TABLE 3 CONT.'D

SEPTEMBER, 1976 TRANSECT	III			IV		
	1	2	3	1	2	3
Euchitonia elegans		3.5	1.1		1.9	1.6
Euchitonia furcata						.2 (.2)
Spongaster sp.(juven.)		.9				2.2
"Circular" spongodiscid		1.7	.5		1.3	.6
"Ellipti al" spongodiscid				(1.1)		
Spongaster pentas				1.1	.6	.6
Spongaster tetras tetras		1.3	.5	1.1	.3	1.3 (.3)
Spongaster tetras irregularis		.4				
Spongocore puella						
Spongotrochus glacialis		2.2	.5			1.3
Spongotrochus scutella					.6	.6
Lithelius alveolina						.3
Lithelius minor						
"6-arm star"						
"5-arm star"						
Hexadoridium sp.						
Corocalyptra sp.						
Corocalyptra craspedota						
Theopilium tricostatum						
Eucyrtiid sp. A			.3		.6	
Lampromitra parabolica						
Eucyrtiid sp. B						
Lipmanella virchowii			.3		2.5	.3
Eucyrtidium hexagonatum						

TABLE 3 CONT.'D

SEPTEMBER, 1976 TRANSECT	I			II		
	1	2	3	1	2	3
Eucyrtidium acuminatum			.4		.6 (.6)	
Lithopera bacca						.2
Pterocanium praetextum praetextum		1.3	1.3			.4
Pterocanium praetextum eucolpum			(.2)			
Pterocanium trilobum			.2		1.1	
Siphocampe sp.						
Spirocyrtis scalaris			2.5		.6	.2
Pterocorys zancleus		(.7)	22.7 (3.4)		4.6	
Anthocyrtidium sp.			.2			
Anthocyrtidium cineraria			(.2)			
Lamprocyclas sp. (juvenile)					.6	
Lamprocyclas nupitalis			.2			.2
Lamprocyclas cranoides			1.1 (2.9)			1.3 (2.2)
Theoconus hertwigii			2.7 (.2)		1.7	.4
Litharachnium tentorum						.2
Botryocyrtis scutum			.4			
Lithomelissa sp.						
Lophophaena sp. A						
Lophophaena sp. B						
Lophophaena hispida						
Lophophaena cylindrica			.2			.6 (.4)
Peromelissa phalacra			.2			
Peromelissa sp.						
Clathrocanium coronatum						

TABLE 3 CONT.'D

SEPTEMBER, 1976 TRANSECT	III			IV		
	1	2	3	1	2	3
Eucyrtidium acuminatum			.3			
Lithopera bacca						
Pterocanium praetextum praetextum		1.3	.3		.6	4.8
Pterocanium praetextum eucolpum						(.5)
Pterocanium trilobum						
Siphocampe sp.						
Spirocyrtis scalaris					1.3	2.8
Pterocorys zancleus		7.0	1.1		19.4	39.4
Anthocyrtidium sp.						
Anthocyrtidium cineraria						1.3
Lamprocyclas sp. (juvenile)						
Lamprocyclas nupitalis			.3			
Lamprocyclas cranoides					.6	
		(.4)	(.3)			
Theoconus hertwigii			.5			3.8
Litharachnium tentorum						
Botryocyrtis scutum					3.1	1.9
Lithomelissa sp.			.3			.3
					(.6)	
Lophophaena sp. A					.6	
Lophophaena sp. B					.6	
					(.6)	
Lophophaena hispida						
Lophophaena cylindrica						
Peromelissa phalacra						.3
Peromelissa sp.						
Clathrocanium coronatum						

TABLE 3 CONT.'D

SEPTEMBER, 1976 TRANSECT	I			II		
	1	2	3	1	2	3
Callimitra emmae						.4
Zygocyrcus sp.			.4			
			(.4)			
Acanthodesmia viniculata			2.3		1.7	.9
			(.2)			(.2)
Amphispyris costata			.2			
Spyroid sp.			.2			
Ceratospyris sp.						
			(.2)			

TABLE 3 CONT.'D

SEPTEMBER, 1976 TRANSECT	III			IV		
	1	2	3	1	2	3
Callimitra emmae						
Zygocyrcus sp.						
Acanthodesmia viniculata		3.0			1.3	(.6) 2.8
Amphispyris costata						
Spyroid sp.						.3
Ceratospyris sp.		.4				

TABLE 4

RADIOLARIAN SPECIES INDICATIVE OF SEASONALITY
NUMBER OF RADIOLARIANS PER 1/20th ALIQUOT OF
500 ml NANSEN (INTEGRATED DEPTH) SAMPLE

Explanation of Table 4:

Living/Dead

TABLE 4 CONT.'D

Live/Dead

March, 1976

Abundances of radiolarians per aliquot of sample	1/II	2/II	3/II	HR	SB
Spumellarians					
Actinomma m. s.		9/	7/		3/
Collosphaera sp. A			1/		
Collosphaera sp. B					
Collosphaera tuberosa					
Polysolenia lappacea					
Choenicosphaera murrayana					
Hexalonche anaximandri		1/	2/		3/
Actinomma arcadophorum					
Actinomma sp. A					
Actinomma sp. B					1/
Actinomma sp. E			1/		
Actinomma sp. G					
Actinomma sp. J					1/
Actinomma sp. K					
Actinomma sp. L					
Actinomma sp. M			1/		
Actinomma sp. N					2/
Cladococcus scoparius					
Drymosphaera polygonalis					
Stylocontarium bispiculum					
Haliomma erinaceum					
Cenosphaera sp. B					
Cenosphaera sp. E		/1	1/		
Cenosphaera sp. F			1/		
Cenosphaera sp. H					
Cenosphaera sp. J					
Cenosphaera sp. K					
Cenosphaera sp. L					
Ommatartus tetrathalamus					
Stylodictya heliospyra					
Staurodictya sp.					
Stylochlamidium asteriscus					
Trizonium sp.		2/			
Tetrapyle octacantha					
Heliodiscus asteriscus					
Hymeniastrum profundum		1/			
Euchitonia sp.					
Euchitonia elegans					
Euchitonia furcata					
Spongaster tetras tetras					
Spongaster pentas					
"Circular" spongodiscid					
Spongotrochus glacialis		2/			
Spongotrochus scutella					
Hexadoridium streptacanthum					
Hexadoridium sp. ?					

TABLE 4 CONT.'D

Live/Dead

March, 1976

Abundances of radiolarians per aliquot of sample	1/II	2/II	3/II	HR	SB
Nassellarians					
"D" rings					
Corocalyptra craspedota			1/		
Lipmanella virchowii			1/		
Eucyrtidium acuminatum					
Eucyrtidium hexagonatum					
Pterocanium praetextum praetextum		1/			
Pterocanium praetextum eucolpum					
Pterocanium trilobum					
Pterocorys zancleus					
Anthocyrtidium cineraria					
Lamprocyclas cranoides					
Theoconus hertwigii					
Botryocyrtis scutum					
Lithomelissa sp.					
Lophophaena cylindrica					
Lophophaena hispida					
Clathrocorys sp.					
Acanthodesmia viniculata					
Zygocyrcus sp.					
Ceratospyris			1/		

TABLE 4 CONT.'D

Live/Dead Abundances of radiolarians per aliquot of sample	April, 1976				
	1/II	2/II	3/II	HR	SB
Spumellarians					
Collosphaera sp. A		3/	9/	1/	9/
Collosphaera sp. B					
Collosphaera tuberosa					
Polysolenia lappacea					
Choenicosphaera murrayana					
Hexalonche anaximandri			1/		
Actinomma arcadophorum					
Actinomma sp. A					
Actinomma sp. B					
Actinomma sp. E			3/	6/	1/
Actinomma sp. G					
Actinomma sp. J					
Actinomma sp. K					
Actinomma sp. L					
Actinomma sp. M					
Actinomma sp. N					1/
Cladococcus scoparius					
Drymosphaera polygonalis					
Stylocontarium bispiculum					
Haliomma erinaceum					
Cenosphaera sp. B					
Cenosphaera sp. E					1/
Cenosphaera sp. F					
Cenosphaera sp. H					
Cenosphaera sp. J					
Cenosphaera sp. K					
Cenosphaera sp. L		9/			
Ommatartus tetrathalamus		4/			
Stylodictya heliospyra					
Staurodictya sp.					
Stylochlamidium asteriscus					
Trizonium sp.					
Tetrapyle octacantha		4/			
Heliodiscus asteriscus					
Hymeniastrum profundum		3/			
Euchitonia sp.					
Euchitonia elegans					
Euchitonia furcata		1/			
Spongaster tetras tetras		1/			1/
Spongaster pentas					
"Circular" spongodiscid		1/			
Spongotrochus glacialis		2/1	2/		1/
Spongotrochus scutella					1/
Hexadoridium streptacanthum					1/
Hexadoridium sp. ?					

TABLE 4 CONT.'D

Live/Dead — April, 1976

Abundances of radiolarians per aliquot of sample

Nassellarians	1/II	2/II	3/II	HR	SB
"D" rings					
Corocalyptra craspedota					
Lipmanella virchowii					
Eucyrtidium acuminatum					
Eucyrtidium hexagonatum			1/		
Pterocanium praetextum praetextum					
Pterocanium praetextum eucolpum					
Pterocanium trilobum		1/			
Pterocorys zancleus					
Anthocyrtidium cineraria					
Lamprocyclas cranoides					
Theoconus hertwigii					
Botryocyrtis scutum					
Lithomelissa sp.					
Lophophaena cylindrica					
Lophophaena hispida					
Clathrocorys sp.		/2			
Acanthodesmia viniculata					1/
Zygocyrcus sp.					
Ceratospyris					

TABLE 4 CONT.'D

Live/Dead Abundances of radiolarians per aliquot of sample	May, 1976				
	1/II	2/II	3/II	HR	SB
Spumellarians					
				14/2	1/
Collosphaera sp. A					
Collosphaera sp. B					
Collosphaera tuberosa					
Polysolenia lappacea					
Choenicosphaera murrayana					
Hexalonche anaximandri					
Actinomma arcadophorum					
Actinomma sp. A					
Actinomma sp. B					
Actinomma sp. E					
Actinomma sp. G					
Actinomma sp. J					
Actinomma sp. K					
Actinomma sp. L					
Actinomma sp. M					
Actinomma sp. N					
Cladococcus scoparius					
Drymosphaera polygonalis					
Stylocontarium bispiculum					
Haliomma erinaceum					
Cenosphaera sp. B					
Cenosphaera sp. E				1/	1/
Cenosphaera sp. F					
Cenosphaera sp. H					
Cenosphaera sp. J					
Cenosphaera sp. K					
Cenosphaera sp. L					
Ommatartus tetrathalamus					
Stylodictya heliospyra					
Staurodictya sp.					
Stylochlamidium asteriscus					
Trizonium sp.					
Tetrapyle octacantha					
Heliodiscus asteriscus					
Hymeniastrum profundum				1/	
Euchitonia sp.					
Euchitonia elegans					
Euchitonia furcata					
Spongaster tetras tetras					
Spongaster pentas					
"Circular" spongodiscid					1/
Spongotrochus glacialis				1/	1/
Spongotrochus scutella					
Hexadoridium streptacanthum				1/	1/
Hexadoridium sp. ?					

TABLE 4 CONT.'D

Live/Dead

May, 1976

Abundances of radiolarians per aliquot of sample

	1/II	2/II	3/II	HR	SB
Nassellarians					
"D" rings					
Corocalyptra craspedota					
Lipmanella virchowii					
Eucyrtidium acuminatum					
Eucyrtidium hexagonatum					
Pterocanium praetextum praetextum					
Pterocanium praetextum eucolpum					
Pterocanium trilobum					
Pterocorys zancleus					
Anthocyrtidium cineraria					
Lamprocyclas cranoides					
Theoconus hertwigii					
Botryocyrtis scutum					
Lithomelissa sp.					
Lophophaena cylindrica					1/
Lophophaena hispida					
Clathrocorys sp.					
Acanthodesmia viniculata				1/	
Zygocyrcus sp.					
Ceratospyris					

TABLE 4 CONT.'D

Live/Dead
Abundances of
radiolarians per
aliquot of sample

July, 1976

	1/II	2/II	3/II	HR	SB
Spumellarians					
Collosphaera sp. A					/1
Collosphaera sp. B					
Collosphaera tuberosa					
Polysolenia lappacea			/1		
Choenicosphaera murrayana				/1	1/1
Hexalonche anaximandri					1/
Actinomma arcadophorum					
Actinomma sp. A					
Actinomma sp. B					
Actinomma sp. E					
Actinomma sp. G					
Actinomma sp. J					
Actinomma sp. K					
Actinomma sp. L					
Actinomma sp. M		6/		11/1	1/
Actinomma sp. N			6/		
Cladococcus scoparius					
Drymosphaera polygonalis					1/1
Stylocontarium bispiculum					/2
Haliomma erinaceum					
Cenosphaera sp. B					
Cenosphaera sp. E				1/	
Cenosphaera sp. F					
Cenosphaera sp. H					
Cenosphaera sp. J					
Cenosphaera sp. K					
Cenosphaera sp. L					
Ommatartus tetrathalamus					
Stylodictya heliospyra					/1
Staurodictya sp.					
Stylochlamidium asteriscus					
Trizonium sp.					
Tetrapyle octacantha					
Heliodiscus asteriscus					
Hymeniastrum profundum				1/	1/2
Euchitonia sp.				1/	
Euchitonia elegans					
Euchitonia furcata					
Spongaster tetras tetras			1/		
Spongaster pentas					
"Circular" spongodiscid	1/				
Spongotrochus glacialis	1/	1/		2/	1/
Spongotrochus scutella			1/		
Hexadoridium streptacanthum					
Hexadoridium sp. ?					

TABLE 4 CONT.'D

Live/Dead

July, 1976

Abundances of radiolarians per aliquot of sample

	1/II	2/II	3/II	HR	SB
Nassellarians					
"D" rings					
Corocalyptra craspedota					
Lipmanella virchowii					
Eucyrtidium acuminatum					
Eucyrtidium hexagonatum			/1		
Pterocanium praetextum praetextum			5/	1/	
Pterocanium praetextum eucolpum					
Pterocanium trilobum			1/		
Pterocorys zancleus			5/	2/	3/3
Anthocyrtidium cineraria			1/		/1
Lamprocyclas cranoides					/1
Theoconus hertwigii			1/		
Botryocyrtis scutum					
Lithomelissa sp.					
Lophophaena cylindrica					
Lophophaena hispida					
Clathrocorys sp.					
Acanthodesmia viniculata				1/	
Zygocyrcus sp.					
Ceratospyris			1/		

TABLE 4 CONT.'D

Live/Dead Abundances of radiolarians per aliquot of sample	August, 1976				
	1/II	2/II	3/II	HR	SB
Spumellarians					
		1/		18/	1/
Collosphaera sp. A					1/
Collosphaera sp. B			1/		
Collosphaera tuberosa				1/	
Polysolenia lappacea					
Choenicosphaera murrayana					
Hexalonche anaximandri	1/			1/	
Actinomma arcadophorum					
Actinomma sp. A					
Actinomma sp. B					
Actinomma sp. E	1/			1/	
Actinomma sp. G					
Actinomma sp. J					
Actinomma sp. K					
Actinomma sp. L					
Actinomma sp. M					1/
Actinomma sp. N					
Cladococcus scoparius					
Drymosphaera polygonalis					
Stylocontarium bispiculum					
Haliomma erinaceum					
Cenosphaera sp. B		1/	1/	/1	
Cenosphaera sp. E					
Cenosphaera sp. F					
Cenosphaera sp. H					
Cenosphaera sp. J					
Cenosphaera sp. K					
Cenosphaera sp. L					
Ommatartus tetrathalamus				1/	
Stylodictya heliospyra			/1		
Staurodictya sp.					
Stylochlamidium asteriscus					
Trizonium sp.	1/1				
Tetrapyle octacantha					
Heliodiscus asteriscus					
Hymeniastrum profundum		1/			2/
Euchitonia sp.					
Euchitonia elegans					
Euchitonia furcata					
Spongaster tetras tetras					
Spongaster pentas					
"Circular" spongodiscid					
Spongotrochus glacialis					
Spongotrochus scutella					
Hexadoridium streptacanthum					
Hexadoridium sp. ?					

TABLE 4 CONT.'D

Live/Dead

August, 1976

Abundances of radiolarians per aliquot of sample

	1/II	2/II	3/II	HR	SB
Nassellarians					
"D" rings					
Corocalyptra craspedota					
Lipmanella virchowii					
Eucyrtidium acuminatum				2/	1/
Eucyrtidium hexagonatum					
Pterocanium praetextum praetextum				2/1	
Pterocanium praetextum eucolpum					
Pterocanium trilobum		1/			2/
Pterocorys zancleus	1/		5/2	2/	4/
Anthocyrtidium cineraria					
Lamprocyclas cranoides					
Theoconus hertwigii				4/1	
Botryocyrtis scutum					
Lithomelissa sp.					
Lophophaena cylindrica					
Lophophaena hispida					
Clathrocorys sp.					
Acanthodesmia viniculata			/1	1/	
Zygocyrcus sp.					
Ceratospyris					

TABLE 4 CONT.'D

Live/Dead
Abundances of radiolarians per aliquot of sample

September, 1976

	1/II	2/II	3/II	HR	SB
Spumellarians					
Collosphaera sp. A				1/	1/
Collosphaera sp. B					
Collosphaera tuberosa					
Polysolenia lappacea					
Choenicosphaera murrayana					
Hexalonche anaximandri					
Actinomma arcadophorum					
Actinomma sp. A					
Actinomma sp. B					
Actinomma sp. E					
Actinomma sp. G					
Actinomma sp. J					
Actinomma sp. K					
Actinomma sp. L					
Actinomma sp. M					
Actinomma sp. N					
Cladococcus scoparius					
Drymosphaera polygonalis					
Stylocontarium bispiculum					
Haliomma erinaceum					
Cenosphaera sp. B					
Cenosphaera sp. E					
Cenosphaera sp. F					
Cenosphaera sp. H					
Cenosphaera sp. J					
Cenosphaera sp. K					
Cenosphaera sp. L					
Ommatartus tetrathalamus					
Stylodictya heliospyra					
Staurodictya sp.					
Stylochlamidium asteriscus					
Trizonium sp.					
Tetrapyle octacantha					
Heliodiscus asteriscus					
Hymeniastrum profundum				3/	1/
Euchitonia sp.				1/	
Euchitonia elegans					
Euchitonia furcata					
Spongaster tetras tetras					
Spongaster pentas					
"Circular" spongodiscid					
Spongotrochus glacialis					
Spongotrochus scutella					
Hexadoridium streptacanthum					
Hexadoridium sp. ?					

TABLE 4 CONT.'D

Live/Dead

Abundances of radiolarians per aliquot of sample

September, 1976

Nassellarians	1/II	2/II	3/II	HR	SB
"D" rings					
Corocalyptra craspedota					
Lipmanella virchowii					
Eucyrtidium acuminatum					
Eucyrtidium hexagonatum					
Pterocanium praetextum praetextum					
Pterocanium praetextum eucolpum					
Pterocanium trilobum					
Pterocorys zancleus				1/	
Anthocyrtidium cineraria					
Lamprocyclas cranoides					
Theoconus hertwigii					
Botryocyrtis scutum					
Lithomelissa sp.					
Lophophaena cylindrica					
Lophophaena hispida					
Clathrocorys sp.					
Acanthodesmia viniculata					
Zygocyrcus sp.					
Ceratospyris					

TABLE 4 CONT.'D

Live/Dead Abundances of radiolarians per aliquot of sample

November, 1976

Spumellarians	1/II	2/II	3/II	HR	SB
Collosphaera sp. A		6/	1/	2/	3/
Collosphaera sp. B					
Collosphaera tuberosa					
Polysolenia lappacea					
Choenicosphaera murrayana					
Hexalonche anaximandri					
Actinomma arcadophorum					
Actinomma sp. A					
Actinomma sp. B					
Actinomma sp. E			2/		
Actinomma sp. G				1/	
Actinomma sp. J					
Actinomma sp. K					
Actinomma sp. L				1/	2/
Actinomma sp. M		1/			4/
Actinomma sp. N					
Cladococcus scoparius					
Drymosphaera polygonalis					
Stylocontarium bispiculum					
Haliomma erinaceum					
Cenosphaera sp. B					
Cenosphaera sp. E					
Cenosphaera sp. F					
Cenosphaera sp. H					
Cenosphaera sp. J					
Cenosphaera sp. K					
Cenosphaera sp. L					
Ommatartus tetrathalamus		2/	1/		
Stylodictya heliospyra					
Staurodictya sp.					1/
Stylochlamidium asteriscus					
Trizonium sp.					
Tetrapyle octacantha					
Heliodiscus asteriscus					
Hymeniastrum profundum			1/		
Euchitonia sp.				1/	1/
Euchitonia elegans					
Euchitonia furcata		1/			
Spongaster tetras tetras					
Spongaster pentas			1/		
"Circular" spongodiscid					
Spongotrochus glacialis			1/		
Spongotrochus scutella					
Hexadoridium streptacanthum		1/			
Hexadoridium sp. ?					

TABLE 4 CONT.'D

Live/Dead Abundances of radiolarians per aliquot of sample

November, 1976

	1/II	2/II	3/II	HR	SB
Spumellarians					
		6/	1/	2/	3/
Collosphaera sp. A					
Collosphaera sp. B					
Collosphaera tuberosa					
Polysolenia lappacea					
Choenicosphaera murrayana					
Hexalonche anaximandri					
Actinomma arcadophorum					
Actinomma sp. A					
Actinomma sp. B					
Actinomma sp. E			2/		
Actinomma sp. G				1/	
Actinomma sp. J					
Actinomma sp. K					
Actinomma sp. L				1/	2/
Actinomma sp. M		1/			4/
Actinomma sp. N					
Cladococcus scoparius					
Drymosphaera polygonalis					
Stylocontarium bispiculum					
Haliomma erinaceum					
Cenosphaera sp. B					
Cenosphaera sp. E					
Cenosphaera sp. F					
Cenosphaera sp. H					
Cenosphaera sp. J					
Cenosphaera sp. K					
Cenosphaera sp. L					
Ommatartus tetrathalamus		2/	1/		
Stylodictya heliospyra					
Staurodictya sp.					1/
Stylochlamidium asteriscus					
Trizonium sp.					
Tetrapyle octacantha					
Heliodiscus asteriscus					
Hymeniastrum profundum			1/		
Euchitonia sp.				1/	1/
Euchitonia elegans					
Euchitonia furcata		1/			
Spongaster tetras tetras					
Spongaster pentas			1/		
"Circular" spongodiscid					
Spongotrochus glacialis			1/		
Spongotrochus scutella					
Hexadoridium streptacanthum		1/			
Hexadoridium sp. ?					

TABLE 4 CONT.'D

Live/Dead Abundances of radiolarians per aliquot of sample

December, 1976

	1/II	2/II	3/II	HR	SB
Spumellarians					
Collosphaera sp. A			3/		1/
Collosphaera sp. B					
Collosphaera tuberosa				1/	
Polysolenia lappacea					
Choenicosphaera murrayana					
Hexalonche anaximandri					
Actinomma arcadophorum		1/	1/		1/
Actinomma sp. A			1/		
Actinomma sp. B					
Actinomma sp. E				1/	
Actinomma sp. G					
Actinomma sp. J					
Actinomma sp. K			1/		
Actinomma sp. L					
Actinomma sp. M					1/
Actinomma sp. N					
Cladococcus scoparius					1/
Drymosphaera polygonalis					
Stylocontarium bispiculum					1/
Haliomma erinaceum			/1		
Cenosphaera sp. B					
Cenosphaera sp. E					
Cenosphaera sp. F					
Cenosphaera sp. H					
Cenosphaera sp. J				1/	
Cenosphaera sp. K					1/
Cenosphaera sp. L					
Ommatartus tetrathalamus				2/	
Stylodictya heliospyra					
Staurodictya sp.					1/
Stylochlamidium asteriscus			1/		
Trizonium sp.					
Tetrapyle octacantha			/1		/1
Heliodiscus asteriscus					
Hymeniastrum profundum			2/	2/	
Euchitonia sp.			1/	2/	3/
Euchitonia elegans			1/	1/	2/
Euchitonia furcata			2/		
Spongaster tetras tetras					
Spongaster pentas					
"Circular" spongodiscid					
Spongotrochus glacialis					
Spongotrochus scutella					
Hexadoridium streptacanthum					
Hexadoridium sp. ?				3/	2/

TABLE 4 CONT.'D

Live/Dead

December, 1976

Abundances of radiolarians per aliquot of sample

Nassellarians	1/II	2/II	3/II	HR	SB
"D" rings					
Corocalyptra craspedota					
Lipmanella virchowii		1/	1/		
Eucyrtidium acuminatum		2/		1/	
Eucyrtidium hexagonatum					
Pterocanium praetextum praetextum					
Pterocanium praetextum eucolpum				1/	1/
Pterocanium trilobum					
Pterocorys zancleus			3/	2/	1/
Anthocyrtidium cineraria					
Lamprocyclas cranoides					
Theoconus hertwigii			1/		
Botryocyrtis scutum			1/		
Lithomelissa sp.				1/	
Lophophaena cylindrica					
Lophophaena hispida				1/	
Clathrocorys sp.					
Acanthodesmia viniculata				1/	2/
Zygocyrcus sp.			/1		1/
Ceratospyris					

TABLE 5

ABUNDANCES OF LIVING SHELLED MICROPLANKTON

Explanation of Table 5:

Living Individuals/m^3

TABLE 5 CONT.'D

Live/dead

Abundances of shelled micro-plankton per sample	MARCH, 1976					APRIL, 1976				
	1/II	2/II	3/II	H.R.	S.B.	1/II	2/II	3/II	H.R.	S.B.
Dinoflagellates		1589	264		223			1686	278	5716
Diatoms		2506	2063					538	516	6643
Pteropods		189	115		64	174		24	238	115
Gastropod veligers						54				
Bivalve veligers		9	11					58		344
Benthonic forams										
Planktonic forams		432	81		157			35	198	571
Ostracodes			23			6		35		
Spumellarian radiolarians		377	218		157		19	176	158	363
Nassellarian radiolarians		9	35				.7	11		
Acantharian radiolarians		837	517		314	6408	744	183	2596	899

TABLE 5 CONT.'D

Live/dead	MAY, 1976					JULY, 1976				
Abundances of shelled micro-plankton per sample	1/II	2/II	3/II	H.R.	S.B.	1/II	2/II	3/II	H.R.	S.B.
Dinoflagellates				256	439	4975	1510	650	1584	504
Diatoms				96	1471	2168	497	81	1340	1074
Pteropods	50	72	1	1234	1099	318	302	114	122	84
Gastropod veligers		2		16		63	22			
Bivalve veligers	1	2		755			129		122	369
Benthonic forams	4					63				16
Planktonic forams		1	1	32	31		65	122	202	134
Ostracodes		15	1				281		243	84
Spumellarian radiolarians	1	13	5	305	125	383	173	102	630	151
Nassellarian radiolarians		2	1	16	31		22	182	81	50
Acantharian radiolarians	20	93	17	786	1004	700	496	467	548	218

TABLE 5 CONT.'D

Live/dead

Abundances of shelled micro-plankton per sample	AUGUST, 1976					SEPTEMBER, 1976				
	1/II	2/II	3/II	H.R.	S.B.	1/II	2/II	3/II	H.R.	S.B.
Dinoflagellates	3085	855	908	1384	96				136	516
Diatoms	3148	107	217	198	53				39	68
Pteropods		107	10	99	53	93	108	50	253	109
Gastropod veligers	123					18	1	4		14
Bivalve veligers	1335	107	21	60		104	16	31	662	149
Benthonic forams	115		21			905	2	1		
Planktonic forams	123	107	31	118	18	1	34	9	97	26
Ostracodes	123	26	31						136	41
Spumellarian radiolarians	178	80	21	435	88	3	57	35	97	26
Nassellarian radiolarians	60	27	52	553	141		5	11	20	
Acantharian radiolarians	713	401	83	336	39	9	5	19	39	14

TABLE 5 CONT.'D

Live/dead

Abundances of shelled microplankton per sample	NOVEMBER, 1976					DECEMBER, 1976				
	1/II	2/II	3/II	H.R.	S.B.	1/II	2/II	3/II	H.R.	S.B.
Dinoflagellates	489	781	161	519	268	5723	937	300	451	269
Diatoms	4314	1120	193	281	214	115750	13234	480	3020	339
Pteropods	11142	270	64	238	89		71	27	118	196
Gastropod veligers										
Bivalve veligers	474	237	32	65	214	890	281	35	78	107
Benthonic forams				22			24	9	20	36
Planktonic forams		305	11	130	143	128	165	229	332	357
Ostracodes	474	237		87	232		1499	44	59	161
Spumellarian radiolarians		373	75	106	196		118	88	254	250
Nassellarian radiolarians			11	22	36		71	53	118	89
Acantharian radiolarians	3646	747	226	37	893	3318	211	273	431	375

TABLE 6

DATA FROM NISKIN (DISCRETE DEPTH) SAMPLING

Explanation of Table 6:

The Niskin samples are listed serially (1-135) down the left hand side of each page.

Numbers corresponding to the microplankton groups counted are listed serially, left to right, above each column of data entries for sample 1. (Thus column 1 for samples 1-135 represents the counts of centric solitary diatoms present in each sample.)

The data entries represent the percent abundance of a given group for a given sample (0.12 = 12 percent).

Next to each sample number a sample label code is provided. Interpretation of the label code is as follows:

Column 1 = station number;
Columns 3, 4 and/or 5 (Roman numerals I, II, III, IV) = transect numbers;
Columns 6, 7 and 8 = BLM sample code;
Columns 9 and 10 = Month of collection;
Columns 11, 12, 13 and 14 = Time of day samples collected.

In some cases the last column has depth interval information (p or pz = photic zone, 5 or .5 = 1/2 photic zone, P-B = 1/2 between base of photic zone and bottom, and B = bottom).

TABLE 6 CONT.'D

DATA CHECK OF 1976 NISKIN SAMPLES

NUMBER OF GROUPS 60
NUMBER OF CHARACTERS 60
NUMBER OF SAMPLES 135

VARIABLE FORMAT (I2,4A4,2X,20F3.2/20X,20F3.2/20X,20F3.2)

OUTPUT FORMAT (I2,4A4,2X,60F4.2)

VARIABLES IN GROUP 1

1	CEN SOL DIATOMS
2	CEN COL DIATOMS
3	PEN SOL DIATOMS
4	PEN COL DIATOMS
5	PERIDINIUM
6	GONYAULAX
7	DINOPHYSIS
8	CERATIUM
9	NOCTILUCA
10	DINOFLAGELLATES
11	SILICOFLAGELLATE
12	EBRIDIANS
13	TRICHODESMIUM
14	COCCOLITHOPHORES
15	SPUMELLARIANS
16	NASSELLARIANS
17	ACANTHARIANS
18	PHAEODARIANS
19	BEN FORAMS
20	PLANK FORAMS
21	TINTINNIDS
22	CILIATA
23	EGGS
24	COELENTERATES
25	SIPHONOPHORES
26	CTENOPHORES
27	SALP (DOLIOLUM)
28	SALP (DIKOPEURA)
29	SHELLED PTEROPOD
30	NON-SHELLED PTER
31	CHAETOGNATHS
32	HOLOP POLYCHAETE
33	HEROP POLYCHAETE
34	EUPHAUSIDS
35	SHRIMP
36	MYSIDS
37	"MYSID STAGE"
38	AMPHIPODS
39	ISOPODS
40	CUMACEANS
41	CAL COPEPODS
42	HARPACT COPEPODS
43	CYCLOP COPEPODS
44	LUCIFER
45	NAUPLIAR LARVAE
46	MEGALOPS
47	ZOEA LARVAE
48	OSTRACODS
49	CLADOCERA PODON
50	CLADOCERA EVADNE
51	ECHINODERM
52	SNAIL VELIGERS
53	CLAMS
54	BRYOZOANS
55	TROCHOPHORES
56	TUNICATES
57	DEVELOPING EGGS
58	FISH EGGS
59	JUVENILE FISH
60	FECAL PELLETS

TABLE 6 CONT.'D

NUMBER	SAMPLE NAME	1	2	3	4	5	6	7	8	9	10
1	1/IQBI9100810	0.05	0.82	0.03	0.05	0.0	0.0	0.0	0.0	0.0	0.0
2	1/IQBK9060810.5P	0.22	0.18	0.12	0.32	0.01	0.0	0.0	0.0	0.0	0.0
3	2/IQCU9101655	0.10	0.83	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0
4	2/IQCW9211655.5P	0.17	0.49	0.01	0.02	0.0	0.0	0.0	0.05	0.0	0.0
5	3/IQEB9100940	0.30	0.08	0.04	0.0	0.0	0.0	0.0	0.10	0.0	0.01
6	3/IQEI9370940.5P	0.26	0.05	0.04	0.02	0.0	0.0	0.0	0.05	0.0	0.01
7	3/IQEK9740940PZ	0.17	0.14	0.0	0.0	0.01	0.0	0.0	0.05	0.0	0.01
8	3/IQEM91340940PZ	0.31	0.05	0.09	0.10	0.0	0.0	0.0	0.02	0.0	0.0
9	1/IIIQKQ9101740	0.70	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	1/IIIQKS9061740.	0.79	0.03	0.03	0.03	0.0	0.0	0.0	0.01	0.0	0.0
11	2/IIIQMC9100920	0.32	0.22	0.01	0.15	0.0	0.0	0.0	0.01	0.0	0.0
12	2/IIIQME9240920.	0.52	0.06	0.02	0.14	0.0	0.0	0.0	0.02	0.0	0.0
13	3/IIIQNO9101425	0.41	0.09	0.07	0.0	0.0	0.0	0.0	0.06	0.01	0.0
14	3/IIIQNQ9 1425.	0.50	0.17	0.01	0.02	0.0	0.06	0.0	0.0	0.0	0.01
15	3/IVQSH9320840.5	0.33	0.08	0.18	0.02	0.0	0.0	0.0	0.03	0.0	0.0
16	3/IVQSF9100840	0.30	0.21	0.25	0.0	0.0	0.0	0.0	0.01	0.0	0.0
17	3/IVQSJ9650840PZ	0.38	0.12	0.06	0.02	0.0	0.0	0.0	0.02	0.0	0.0
18	3/IVQSM99108408	0.11	0.30	0.03	0.0	0.0	0.02	0.02	0.04	0.01	0.01
19	3/IVLPU59010208	0.31	0.19	0.10	0.15	0.0	0.01	0.0	0.03	0.0	0.0
20	1/IIQGB9081610.5	0.45	0.11	0.11	0.04	0.0	0.0	0.0	0.02	0.0	0.0
21	1/IIQFZ9101610	0.49	0.11	0.09	0.05	0.01	0.0	0.0	0.0	0.01	0.0
22	2/IVQQV9231625.5	0.57	0.17	0.09	0.04	0.0	0.0	0.0	0.07	0.0	0.0
23	3/IIIQNU9 1425	0.20	0.11	0.28	0.13	0.0	0.0	0.0	0.01	0.0	0.02
24	3/IIIQNS9 1425P	0.14	0.32	0.12	0.05	0.0	0.0	0.0	0.03	0.0	0.0
25	3/IIQIZ9 0925.5	0.23	0.21	0.10	0.0	0.0	0.0	0.02	0.0	0.0	0.0
26	3/IIQJB9 0925PZ	0.12	0.41	0.22	0.06	0.0	0.0	0.0	0.02	0.0	0.0
27	3/IIQJD9 0925B	0.19	0.48	0.17	0.0	0.0	0.0	0.0	0.02	0.0	0.0
28	2/IIQHL910	0.44	0.10	0.27	0.03	0.0	0.0	0.0	0.03	0.0	0.0
29	2/IIQHN9 .5	0.21	0.05	0.29	0.15	0.0	0.0	0.0	0.01	0.0	0.0
30	1/IVQPH9100735	0.26	0.40	0.08	0.02	0.0	0.0	0.0	0.01	0.0	0.0

TABLE 6 CONT.'D

31	1/IVQPJ9130735.5	0.25	0.13	0.05	0.0	0.0	0.0	0.0	0.03	0.0	0.0
32	2/IVQQT9101625	0.28	0.13	0.02	0.0	0.01	0.04	0.0	0.06	0.01	0.0
33	3/IIQIX9100925	0.53	0.04	0.01	0.10	0.0	0.0	0.0	0.02	0.0	0.0
34	2/IIGUJ2141210.5	0.34	0.05	0.09	0.02	0.01	0.05	0.02	0.03	0.0	0.0
35	2/IIGUH2101210	0.18	0.10	0.08	0.15	0.0	0.03	0.0	0.04	0.04	0.0
36	1/IIGSQ2051730	0.25	0.02	0.03	0.0	0.06	0.0	0.08	0.10	0.22	0.0
37	1/IIGSD2101730PZ	0.35	0.04	0.0	0.0	0.04	0.30	0.04	0.01	0.06	0.0
38	1/IGDN2050815.5	0.47	0.0	0.11	0.05	0.06	0.01	0.06	0.05	0.02	0.01
39	1/IGNB2100815	0.52	0.02	0.12	0.0	0.08	0.0	0.0	0.02	0.03	0.0
40	2/IGDU2101300	0.37	0.14	0.01	0.04	0.02	0.09	0.03	0.10	0.01	0.01
41	2/IGDW2141300	0.32	0.09	0.03	0.15	0.03	0.07	0.0	0.07	0.06	0.0
42	3/IGDX2101730	0.29	0.32	0.02	0.02	0.0	0.0	0.0	0.03	0.01	0.02
43	3/IVGLL1100830	0.09	0.10	0.09	0.29	0.0	0.0	0.0	0.01	0.0	0.02
44	3/IVGLN1250830	0.16	0.08	0.07	0.18	0.0	0.0	0.0	0.04	0.0	0.10
45	3/IVGLP1500830	0.16	0.30	0.09	0.12	0.01	0.03	0.02	0.02	0.0	0.02
46	3/IVGLR1670830	0.23	0.12	0.04	0.07	0.0	0.0	0.01	0.01	0.0	0.0
47	3/IIGWL2101750	0.20	0.08	0.01	0.0	0.0	0.0	0.0	0.03	0.0	0.02
48	3/IIGWN2271750.5	0.19	0.07	0.04	0.0	0.01	0.0	0.0	0.02	0.0	0.03
49	3/IIGCJ2541750PZ	0.22	0.13	0.09	0.09	0.0	0.04	0.0	0.02	0.0	0.03
50	3/IIGCL2921750P8	0.26	0.22	0.0	0.37	0.0	0.0	0.0	0.02	0.0	0.01
51	3/IIGCN213117508	0.38	0.0	0.54	0.0	0.0	0.02	0.0	0.0	0.0	0.0
52	3/IGQZ2241730	0.42	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.01
53	3/IGCV2481730PZ	0.36	0.0	0.05	0.0	0.0	0.0	0.0	0.06	0.0	0.04
54	3/IGCX2691930P-8	0.44	0.0	0.0	0.07	0.0	0.01	0.0	0.05	0.0	0.06
55	3/IGCZ213017308	0.61	0.08	0.0	0.08	0.0	0.01	0.0	0.02	0.0	0.0
56	3/IIIGBX2101250	0.16	0.11	0.03	0.20	0.0	0.0	0.0	0.02	0.0	0.01
57	3/IIIGBZ22412505	0.23	0.13	0.21	0.02	0.0	0.0	0.0	0.03	0.0	0.0
58	3/IIIGCP2481250P	0.17	0.26	0.10	0.10	0.01	0.0	0.0	0.0	0.01	0.01
59	3/IIIGCT2771250	0.15	0.01	0.17	0.11	0.02	0.0	0.0	0.01	0.0	0.02
60	3/IIIGCR21061250	0.17	0.04	0.08	0.49	0.0	0.0	0.0	0.03	0.01	0.0

TABLE 6 CONT.'D

61	2/IIIGZZ11314455	0.19	0.06	0.25	0.06	0.0	0.0	0.0	0.06	0.0	0.0
62	2/III 1101445	0.29	0.10	0.06	0.0	0.0	0.01	0.0	0.01	0.01	0.03
63	1/IIIGYC1100845	0.21	0.0	0.0	0.0	0.11	0.04	0.19	0.12	0.07	0.0
64	1/IIIGYE10808455	0.22	0.02	0.0	0.0	0.16	0.02	0.14	0.06	0.07	0.04
65	1/IVGLG1051645	0.16	0.0	0.0	0.0	0.04	0.18	0.22	0.07	0.05	0.0
66	1/IVGLE1101645	0.20	0.06	0.03	0.02	0.02	0.49	0.04	0.03	0.01	0.0
67	2/IVGHU1050914	0.34	0.18	0.0	0.0	0.04	0.02	0.12	0.10	0.0	0.0
68	2/IVGHS1100914	0.40	0.04	0.04	0.06	0.03	0.02	0.02	0.10	0.0	0.0
69	3/IVGLT29008308	0.26	0.0	0.19	0.06	0.01	0.0	0.0	0.0	0.0	0.0
70	3/IILFH6420925PZ	0.23	0.0	0.35	0.0	0.01	0.0	0.0	0.11	0.0	0.0
71	3/IILFD6100925	0.18	0.0	0.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	2/IILDD6 0925.5	0.28	0.08	0.31	0.0	0.0	0.0	0.01	0.01	0.0	0.0
73	2/IKYF6101645	0.31	0.11	0.15	0.03	0.0	0.0	0.0	0.0	0.0	0.0
74	3/IVLPQ5201020.5	0.22	0.05	0.33	0.0	0.0	0.0	0.0	0.12	0.0	0.01
75	3/IKZV6101030	0.09	0.0	0.67	0.0	0.0	0.0	0.0	0.04	0.0	0.0
76	1/IILBV6101120	0.76	0.0	0.02	0.04	0.0	0.0	0.01	0.0	0.0	0.0
77	3/IIILKM61914455	0.20	0.10	0.16	0.0	0.0	0.0	0.01	0.04	0.0	0.0
78	3/IIILKK6101445	0.20	0.14	0.07	0.0	0.0	0.0	0.0	0.03	0.0	0.0
79	2/IILDM6100925	0.23	0.02	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.01
80	1/IILBX6 1120.5	0.62	0.06	0.02	0.0	0.01	0.01	0.04	0.02	0.0	0.02
81	3/IKZZ6 1030PZ	0.15	0.07	0.15	0.08	0.02	0.01	0.01	0.18	0.0	0.02
82	3/IIILKO6381445P	0.33	0.12	0.10	0.0	0.0	0.0	0.0	0.07	0.0	0.04
83	1/IVLMK5100905	0.41	0.13	0.02	0.0	0.0	0.0	0.0	0.03	0.0	0.01
84	2/IKYH6 1645.5	0.28	0.05	0.06	0.06	0.0	0.0	0.0	0.01	0.0	0.0
85	3/IIILKQ69014458	0.43	0.05	0.10	0.13	0.0	0.0	0.02	0.0	0.0	0.0
86	1/IKWE6 2000.5	0.50	0.17	0.07	0.04	0.0	0.0	0.0	0.01	0.0	0.0
87	1/IKWC6102000	0.46	0.02	0.03	0.03	0.0	0.0	0.0	0.04	0.0	0.01
88	2/IVLOC5161900.5	0.25	0.0	0.03	0.0	0.01	0.0	0.0	0.02	0.0	0.02
89	2/IVLOA5101900	0.18	0.07	0.15	0.0	0.01	0.0	0.0	0.03	0.0	0.0
90	3/IILFF6210925.5	0.30	0.03	0.01	0.0	0.01	0.0	0.0	0.08	0.0	0.0
91	2/IIILIW6100855	0.26	0.04	0.01	0.02	0.0	0.0	0.02	0.01	0.0	0.01

TABLE 6 CONT.'D

92	2/IIILIV61308555	0.25	0.11	0.0	0.0	0.03	0.01	0.0	0.05	0.0	0.01
93	1/IIILHF6101820	0.33	0.31	0.0	0.13	0.01	0.0	0.0	0.02	0.0	0.0
94	3/IIILPS5401020P	0.32	0.0	0.0	0.0	0.02	0.01	0.0	0.10	0.0	0.03
95	3/IKZX6 1030.5	0.30	0.10	0.18	0.05	0.01	0.0	0.0	0.06	0.0	0.05
96	3/ILA86 1030B	0.37	0.0	0.14	0.02	0.0	0.0	0.0	0.05	0.0	0.04
97	1/IIILHH61818205	0.58	0.09	0.01	0.12	0.0	0.0	0.0	0.03	0.0	0.0
98	3/IVLP05101020	0.48	0.02	0.01	0.0	0.02	0.01	0.0	0.07	0.0	0.0
99	1/IVLHM5120905.5	0.30	0.29	0.01	0.19	0.0	0.01	0.0	0.01	0.0	0.0
100	3/IILFS613009258	0.43	0.03	0.06	0.04	0.0	0.0	0.0	0.05	0.0	0.0
101	3/IIKIW4 1635.5	0.09	0.46	0.03	0.32	0.0	0.0	0.02	0.0	0.0	0.0
102	HR5JRI3 1035.5	0.18	0.08	0.11	0.03	0.0	0.0	0.0	0.04	0.0	0.01
103	2/IIKGM4100825	0.19	0.16	0.08	0.20	0.10	0.0	0.0	0.01	0.0	0.0
104	2/IIKGO .5PZ	0.18	0.33	0.12	0.13	0.02	0.0	0.0	0.01	0.0	0.0
105	SB4JSM3 0730.5	0.35	0.11	0.06	0.0	0.01	0.0	0.0	0.01	0.0	0.0
106	HR8KKJ4 8	0.14	0.71	0.07	0.02	0.0	0.0	0.0	0.0	0.0	0.01
107	SB3KLL4 0825.5	0.26	0.55	0.06	0.0	0.0	0.01	0.0	0.02	0.0	0.0
108	HR5JRG3101035	0.23	0.13	0.10	0.0	0.03	0.0	0.0	0.03	0.02	0.02
109	HR8KKF4 1130.5	0.14	0.68	0.02	0.02	0.0	0.0	0.0	0.02	0.0	0.0
110	3/IIKIU4101620	0.15	0.12	0.06	0.25	0.0	0.0	0.0	0.06	0.0	0.0
111	HR8KKH4 1130PZ	0.20	0.45	0.02	0.17	0.0	0.0	0.0	0.03	0.0	0.0
112	3/IIJPN3 1530.5	0.23	0.22	0.06	0.0	0.0	0.0	0.0	0.03	0.15	0.0
113	2/IIJNJ3 0820.5	0.29	0.33	0.0	0.08	0.0	0.0	0.0	0.01	0.01	0.0
114	SB4JSQ3 0730B	0.11	0.02	0.16	0.0	0.0	0.0	0.0	0.04	0.02	0.01
115	HR8KKD4101130	0.14	0.49	0.01	0.27	0.0	0.0	0.0	0.01	0.0	0.0
116	3/IIJPL3101530	0.26	0.04	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.01
117	SB3KLJ4 0825.5	0.15	0.30	0.02	0.24	0.01	0.0	0.0	0.06	0.0	0.0
118	3/IIJPP3 1550PZ	0.16	0.20	0.11	0.0	0.0	0.0	0.0	0.05	0.0	0.01
119	HR5JRM3 1035B	0.19	0.05	0.06	0.0	0.0	0.0	0.0	0.02	0.0	0.0
120	1/IIKEL4 1210.5	0.27	0.03	0.05	0.22	0.15	0.0	0.0	0.01	0.0	0.0
121	3/IIKIY4 1635PZ	0.48	0.23	0.10	0.0	0.0	0.0	0.0	0.01	0.0	0.01

TABLE 6 CONT.'D

122	SB3KLN4 B	0.63	0.17	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123	1/IIJLM310 .5	0.58	0.0	0.09	0.24	0.01	0.0	0.0	0.03	0.0	0.0
124	2/IIJNH3100820	0.23	0.58	0.05	0.0	0.01	0.0	0.02	0.01	0.0	0.0
125	SB4JSQ3 0730PZ	0.19	0.08	0.13	0.0	0.0	0.0	0.0	0.04	0.0	0.04
126	HR3LSL6101950	0.54	0.06	0.13	0.0	0.0	0.0	0.0	0.01	0.0	0.0
127	SB3LRT652 PZ	0.44	0.04	0.10	0.0	0.0	0.0	0.0	0.05	0.0	0.0
128	SB3LRP6101500	0.44	0.15	0.04	0.0	0.0	0.0	0.0	0.03	0.0	0.0
129	SB3LRR6261500.5	0.60	0.05	0.03	0.0	0.01	0.0	0.0	0.02	0.0	0.03
130	HR3LSR66817508	0.26	0.06	0.07	0.38	0.0	0.0	0.0	0.0	0.0	0.0
131	HR3LSN6191750.5	0.59	0.02	0.04	0.0	0.0	0.0	0.0	0.02	0.0	0.0
132	HR3LSP638 PZ	0.41	0.37	0.04	0.0	0.0	0.0	0.0	0.01	0.0	0.0
133	SB3LRV6 15008	0.20	0.25	0.01	0.21	0.0	0.0	0.0	0.01	0.0	0.0
134	HR5JRK3 1035PZ	0.15	0.0	0.28	0.0	0.0	0.0	0.0	0.02	0.0	0.0
135	SB3KLH4100825	0.23	0.34	0.22	0.06	0.02	0.0	0.01	0.03	0.0	0.01

TABLE 6 CONT.'D

NUMBER	SAMPLE NAME	11	12	13	14	15	16	17	18	19	20
1	1/IQBI9100810	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	1/IQBK9060810.5P	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	2/IQCU9101655	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	2/IQCW9211655.5P	0.01	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0
5	3/IQEB9100940	0.0	0.0	0.01	0.0	0.07	0.0	0.14	0.0	0.0	0.02
6	3/IQEI9370940.5P	0.0	0.0	0.02	0.0	0.02	0.0	0.11	0.0	0.0	0.01
7	3/IQEK9740940PZ	0.0	0.0	0.02	0.0	0.0	0.0	0.19	0.0	0.0	0.0
8	3/IQEM91340940PZ	0.0	0.0	0.0	0.0	0.01	0.0	0.03	0.0	0.0	0.0
9	1/IIIQKQ9101740	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	1/IIIQKS9061740.	0.0	0.0	0.01	0.0	0.0	0.0	0.07	0.0	0.0	0.0
11	2/IIIQMC9100920	0.0	0.0	0.06	0.0	0.0	0.0	0.18	0.0	0.0	0.0
12	2/IIIQME9240920.	0.0	0.0	0.03	0.0	0.0	0.0	0.03	0.0	0.0	0.0
13	3/IIIQNO9101425	0.0	0.0	0.22	0.0	0.01	0.0	0.0	0.0	0.0	0.01
14	3/IIIQNQ9 1425.	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0
15	3/IVQSM9320840.5	0.01	0.0	0.01	0.0	0.0	0.0	0.15	0.0	0.0	0.01
16	3/IVQSF9100840	0.0	0.0	0.0	0.0	0.01	0.0	0.10	0.0	0.0	0.02
17	3/IVQSJ9650840PZ	0.0	0.03	0.04	0.0	0.0	0.01	0.11	0.0	0.0	0.03
18	3/IVQSM99108408	0.0	0.01	0.03	0.0	0.03	0.03	0.0	0.0	0.0	0.02
19	3/IVLPU59010208	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	1/IIQGB9081610.5	0.0	0.0	0.18	0.0	0.0	0.0	0.01	0.0	0.01	0.0
21	1/IIQFZ9101610	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	2/IVQQV9231625.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	3/IIIQNU9 1425	0.0	0.0	0.04	0.0	0.0	0.0	0.01	0.0	0.0	0.0
24	3/IIIQNS9 1425P	0.0	0.0	0.03	0.0	0.0	0.0	0.05	0.0	0.0	0.0
25	3/IIQIZ9 0925.5	0.0	0.0	0.01	0.0	0.0	0.0	0.07	0.0	0.01	0.01
26	3/IIQJB9 0925PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.02	0.01
27	3/IIQJD9 0925B	0.01	0.0	0.03	0.0	0.0	0.0	0.01	0.0	0.01	0.0
28	2/IIQHL910	0.0	0.0	0.05	0.0	0.0	0.01	0.03	0.0	0.0	0.0
29	2/IIQHN9 .5	0.0	0.0	0.05	0.0	0.01	0.01	0.10	0.0	0.0	0.01
30	1/IVQPH9100735	0.0	0.01	0.01	0.0	0.01	0.0	0.09	0.0	0.0	0.0

TABLE 6 CONT.'D

31	1/IVQPJ9130735.5	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.01	0.0
32	2/IVQQT9101625	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.03
33	3/IIQIX9100925	0.0	0.0	0.04	0.0	0.02	0.0	0.03	0.0	0.0	0.0
34	2/IIGUJ2141210.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	2/IIGUH2101210	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03
36	1/IIGSQ2051730	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	1/IIGSD2101730PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	1/IGDN2050815.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	1/IGNB2100815	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	2/IGDU2101300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
41	2/IGDW2141300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	3/IGQX2101730	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.03
43	3/IVGLL1100830	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05
44	3/IVGLN1250830	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0
45	3/IVGLP1500830	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.01	0.0
46	3/IVGLR1670830	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0
47	3/IIGWL2101750	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08
48	3/IIGWN2271750.5	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.04
49	3/IIGCJ2541750PZ	0.02	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.07
50	3/IIGCL2921750PB	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.04
51	3/IIGCN21311750B	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
52	3/IGQZ2241730	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.02
53	3/IGCV2481730PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09
54	3/IGCX2891930P=B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06
55	3/IGCZ213017308	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
56	3/IIIGBX2101250	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.03
57	3/IIIGBZ22412505	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.02
58	3/IIIGCP2481250P	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59	3/IIIGCT2771250	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05
60	3/IIIGCR21061250	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.01

TABLE 6 CONT.'D

61	2/IIIGZZ11314455	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62	2/III 1101445	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
63	1/IIIGYC1100845	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64	1/IIIGYE10808455	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	1/IVGLG1051645	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66	1/IVGLE1101645	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67	2/IVGHU1050914	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68	2/IVGHS1100914	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69	3/IVGLT29008308	0.0	0.0	0.01	0.0	0.01	0.0	0.0	0.0	0.01	0.05
70	3/IILFH6420925PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71	3/IILFD6100925	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	2/IILDD6 0925.5	0.01	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73	2/IKYF6101645	0.03	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74	3/IVLPQ5201020.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75	3/IKZV6101030	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76	1/IILBV6101120	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	3/IIILKM61914455	0.03	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78	3/IIILKK6101445	0.01	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79	2/IILDM6100925	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	1/IILBX6 1120.5	0.01	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81	3/IKZZ6 1030PZ	0.01	0.0	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.01
82	3/IIILKQ6381445P	0.03	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.01
83	1/IVLMK5100905	0.01	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84	2/IKYH6 1645.5	0.03	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85	3/IIILKQ69014458	0.01	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86	1/IKWE6 2000.5	0.01	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87	1/IKWC6102000	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88	2/IVLOC5161900.5	0.06	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.01	0.0
89	2/IVLOA5101900	0.03	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90	3/IILFF6210925.5	0.01	0.0	0.01	0.0	0.0	0.01	0.01	0.0	0.0	0.0
91	2/IIILIW6100855	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.01

TABLE 6 CONT.'D

92	2/IIILIV61308555	0.01	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93	1/IIILMF6101820	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94	3/IIILPS5401020P	0.0	0.0	0.01	0.0	0.01	0.01	0.0	0.0	0.0	0.02
95	3/IKZX6 1030.5	0.0	0.0	0.05	0.0	0.0	0.0	0.04	0.0	0.0	0.0
96	3/ILAB6 10308	0.0	0.0	0.01	0.0	0.02	0.0	0.0	0.0	0.0	0.01
97	1/IIILMH61818205	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98	3/IVLP05101020	0.01	0.0	0.06	0.0	0.0	0.0	0.06	0.0	0.0	0.0
99	1/IVLMM5120905.5	0.0	0.0	0.01	0.0	0.0	0.0	0.02	0.0	0.0	0.0
100	3/IILFS613009258	0.02	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0
101	3/IIKIW4 1635.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102	HR5JR13 1035.5	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.19
103	2/IIKGM4100825	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104	2/IIKGO .5PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105	SB4JSM3 0730.5	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05
106	HR8KKJ4 B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107	SB3KLL4 0825.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.01
108	HR5JRG3101035	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10
109	HR8KKF4 1130.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
110	3/IIKIU4101620	0.02	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111	HR8KKH4 1130PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
112	3/IIJPN3 1530.5	0.0	0.0	0.02	0.0	0.0	0.0	0.01	0.0	0.0	0.03
113	2/IIJNJ3 0820.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
114	SB4JSQ3 07308	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
115	HR8KKD4101130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116	3/IIJPL3101530	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10
117	SB3KLJ4 0825.5	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.01
118	3/IIJPP3 1550PZ	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.01	0.06
119	HR5JRM3 10358	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07
120	1/IIKEL4 1210.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121	3/IIKIY4 1635PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01

TABLE 6 CONT.'D

122	SB3KLN4 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123	1/IIJLM310 .5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0
124	2/IIJNH3100820	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
125	S84JSQ3 0730PZ	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.14
126	HR3LSL6101950	0.01	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127	SB3LRT652 PZ	0.0	0.0	0.02	0.0	0.0	0.0	0.03	0.0	0.0	0.01
128	SB3LRP6101500	0.07	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129	SB3LRR6261500.5	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	HR3LSR66817508	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131	HR3LSN6191750.5	0.02	0.0	0.02	0.0	0.0	0.0	0.01	0.0	0.0	0.0
132	HR3LSP638 PZ	0.01	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133	SB3LRV6 1500B	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134	HR5JRK3 1035PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06
135	SB3KLH4100825	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 6 CONT.'D

NUMBER	SAMPLE NAME	21	22	23	24	25	26	27	28	29	30
1	1/IQBI9100810	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	1/IQBK9060810.5P	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	2/IQCU9101655	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	2/IQCW9211655.5P	0.02	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.01	0.0
5	3/IQEB9100940	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	3/IQEI9370940.5P	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.03	0.0
7	3/IQEK9740940PZ	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	3/IQEM91340940PZ	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	1/IIIQKQ9101740	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	1/IIIQKS9061740.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	2/IIIQMC9100920	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	2/IIIQME9240920.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	3/IIIQNQ9101425	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	3/IIIQNQ9 1425.	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
15	3/IVQSH9320840.5	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	3/IVQSF9100840	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	3/IVQSJ96508 40PZ	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	3/IVQSM99108408	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	3/IVLPU59010208	0.02	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.01	0.0
20	1/IIQGB9081610.5	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0
21	1/IIQFZ9101610	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0
22	2/IVQQV9231625.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	3/IIIQNU9 1425	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	3/IIIQNS9 1425P	0.03	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.01	0.0
25	3/IIQIZ9 0925.5	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	3/IIQJB9 0925PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	3/IIQJD9 0925B	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	2/IIQHL910	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	2/IIQHN9 .5	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	1/IVQPH9100735	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0

TABLE 6 CONT.'D

31	1/IVQPJ9130735.5	0.0	0.0	0.03	0.01	0.0	0.0	0.0	0.0	0.0	0.0
32	2/IVQQT9101625	0.08	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0
33	3/IIQIX9100925	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0
34	2/IIGUJ2141210.5	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	2/IIGUM2101210	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0
36	1/IIGSQ2051730	0.0	0.0	0.01	0.02	0.0	0.0	0.0	0.0	0.01	0.0
37	1/IIGSD2101730PZ	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	1/IGDN2050815.5	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	1/IGNB2100815	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	2/IGDU2101300	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	2/IGDW2141300	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	3/IGDX2101730	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	3/IVGLL1100830	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	3/IVGLN1250830	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
45	3/IVGLP1500830	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	3/IVGLR1670830	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0
47	3/IIGWL2101750	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.01
48	3/IIGWN2271750.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	3/IIGCJ2541750PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	3/IIGCL2921750PB	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
51	3/IIGCN21311750B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0
52	3/IGQZ2241730	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
53	3/IGCV2481730PZ	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0
54	3/IGCX2891930P-B	0.01	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.01
55	3/IGCZ213017308	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
56	3/IIIGBX2101250	0.01	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0
57	3/IIIGBZ22412505	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	3/IIIGCP2481250P	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59	3/IIIGCT2771250	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.02
60	3/IIIGCR21061250	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 6 CONT.'D

61	2/IIIGZZ11314455	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62	2/III 1101445	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
63	1/IIIGYC1100845	0.01	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0
64	1/IIIGYE10808455	0.01	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0
65	1/IVGLG1051645	0.01	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0
66	1/IVGLE1101645	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67	2/IVGHU1050914	0.01	0.0	0.0	0.01	0.0	0.0	0.01	0.0	0.0	0.0
68	2/IVGHS1100914	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69	3/IVGLT29008308	0.01	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
70	3/IILFH6420925PZ	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
71	3/IILFD6100925	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	2/IILDO6 0925.5	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0
73	2/IKYF6101645	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74	3/IVLPQ5201020.5	0.02	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75	3/IKZV6101030	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76	1/IILBV6101120	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	3/IIILKM61914455	0.15	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78	3/IIILKK6101445	0.13	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
79	2/IILDM6100925	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0
80	1/IILBX6 1120.5	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81	3/IKZZ6 1030PZ	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0
82	3/IIILKO6381445P	0.09	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.04	0.0
83	1/IVLMK5100905	0.07	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84	2/IKYH6 1645.5	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0
85	3/IIILKQ69014458	0.07	0.0	0.02	0.01	0.0	0.0	0.0	0.0	0.0	0.0
86	1/IKWE6 2000.5	0.01	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87	1/IKWC6102000	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88	2/IVLOC5161900.5	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0
89	2/IVLOA5101900	0.37	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90	3/IILFF6210925.5	0.02	0.0	0.03	0.01	0.0	0.0	0.03	0.0	0.0	0.0
91	2/IIILIW6100855	0.26	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 6 CONT.'D

92	2/IIILIV61306555	0.20	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93	1/IIILHF6101820	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94	3/IIILPS5401020P	0.02	0.0	0.03	0.02	0.0	0.0	0.0	0.0	0.0	0.0
95	3/IKZX6 1030.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0
96	3/ILAB6 1030B	0.0	0.0	0.04	0.02	0.0	0.0	0.01	0.0	0.01	0.0
97	1/IIILHH61818205	0.06	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.01	0.0
98	3/IVLP05101020	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99	1/IVLMM5120905.5	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100	3/IILFS613009258	0.03	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101	3/IIKIW4 1635.5	0.01	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.01	0.0
102	HR5JRI3 1035.5	0.05	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.01	0.0
103	2/IIKGM4100825	0.01	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104	2/IIKGO .5PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105	S84JSM3 0730.5	0.07	0.0	0.02	0.0	0.01	0.0	0.0	0.0	0.0	0.0
106	HR8KKJ4 B	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0
107	S83KLL4 0825.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108	HR5JRG3101035	0.03	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109	HR8KKF4 1130.5	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110	3/IIKIU4101620	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0
111	HR8KKH4 1130PZ	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112	3/IIJPN3 1530.5	0.02	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
113	2/IIJNJ3 0820.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0
114	S84JSQ3 07308	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.01
115	HR8KKD4101130	0.01	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.01	0.0
116	3/IIJPL3101530	0.11	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117	S83KLJ4 0825.5	0.01	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118	3/IIJPP3 1550PZ	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119	HR5JRM3 10358	0.02	0.0	0.02	0.01	0.0	0.0	0.0	0.0	0.01	0.0
120	1/IIKEL4 1210.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121	3/IIKIY4 1635PZ	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 6,CONT.'D

122	SB3KLN4 B	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123	1/IIJLM310 .5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124	2/IIJNH3100820	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	SB4JSQ3 0730PZ	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126	HR3LSL6101950	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127	SB3LRT652 PZ	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128	SB3LRP6101500	0.05	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
129	SB3LRR6261500.5	0.03	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.02	0.0
130	HR3LSR66817508	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0
131	HR3LSN6191750.5	0.06	0.0	0.01	0.02	0.0	0.0	0.0	0.0	0.0	0.0
132	HR3LSP638 PZ	0.03	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.02	0.0
133	SB3LRV6 1500B	0.06	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
134	HR5JRK3 1035PZ	0.04	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.02	0.0
135	SB3KLH4100825	0.01	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.01	0.0

TABLE 6 CONT.'D

NUMBER	SAMPLE NAME	31	32	33	34	35	36	37	38	39	40
1	1/IQBI9100810	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	1/IQBK9060810.5P	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	2/IQCU9101655	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	2/IQCW9211655.5P'	0.04	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	3/IQE89100940	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	3/IQEI9370940.5P	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	3/IQEK9740940PZ	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	3/IQEM91340940PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	1/IIIQKQ9101740	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	1/IIIQKS9061740.	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	2/IIIQMC9100920	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	2/IIIQME9240920.	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	3/IIIQNQ9101425	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	3/IIIQNQ9 1425.	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	3/IVQSH9320840.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	3/IVQSF9100840	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	3/IVQSJ9650840PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	3/IVQSM99108408	0.02	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	3/IVLPU59010208	0.01	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	1/IIQGB9081610.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	1/IIQFZ9101610	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	2/IVQQV9231625.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	3/IIIQNU9 1425	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	3/IIIQNS9 1425P	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	3/IIQIZ9 0925.5	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	3/IIQJB9 0925PZ	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	3/IIQJD9 0925B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	2/IIQHL910	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	2/IIQHN9 .5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	1/IVQPH9100735	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 6 CONT.'D

31	1/IVQPJ9130735.5	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	2/IVQQT9101625	0.06	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	3/IIQIX9100925	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	2/IIGUJ2141210.5	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	2/IIGUH2101210	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	1/IIGSQ2051730	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	1/IIGSD2101730PZ	0.01	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	1/IGDN2050815.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	1/IGNB2100815	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	2/IGOU2101300	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	2/IGOW2141300	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	3/IGQX2101730	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	3/IVGLL1100830	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	3/IVGLN1250830	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	3/IVGLP1500830	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	3/IVGLR1670830	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	3/IIGWL2101750	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	3/IIGWN2271750.5	0.03	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	3/IIGCJ2541750PZ	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	3/IIGCL2921750PB	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
51	3/IIGCN213117508	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52	3/IGQZ2241730	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
53	3/IGCV2481730PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
54	3/IGCX2891930P=B	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55	3/IGCZ213017308	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
56	3/IIIGBX2101250	0.01	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0
57	3/IIIGBZ22412505	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	3/IIIGCP2481250P	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59	3/IIIGCT2771250	0.02	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	3/IIIGCR21061250	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 6 CONT.'D

61	2/IIIGZZ11314455	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62	2/III 1101445	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63	1/IIIGYC1100845	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64	1/IIIGYE10808455	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	1/IVGLG1051645	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66	1/IVGLE1101645	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67	2/IVGMU1050914	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68	2/IVGMS1100914	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69	3/IVGLT29008308	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	3/IILFM6420925PZ	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71	3/IILFD6100925	0.01	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	2/IILDO6 0925.5	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73	2/IKYF6101645	0.03	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74	3/IVLPQ5201020.5	0.02	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75	3/IKZV6101030	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76	1/IILBV6101120	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	3/IIILKM61914455	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78	3/IIILKK6101445	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79	2/IILDM6100925	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	1/IILBX6 1120.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81	3/IKZZ6 1030PZ	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82	3/IIILKQ6381445P	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83	1/IVLMK5100905	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84	2/IKYH6 1645.5	0.07	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85	3/IIILKQ69014458	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86	1/IKWE6 2000.5	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87	1/IKWC6102000	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88	2/IVLOC5161900.5	0.13	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89	2/IVLOA5101900	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90	3/IILFF6210925.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91	2/IIILIW6100855	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 6 CONT.'D

92	2/IIILIV61308555	0.06	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
93	1/IIILHF6101820	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94	3/IIILPS5401020P	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95	3/IKZX6 1030.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96	3/ILAB6 1030B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97	1/IIILHH61818205	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98	3/IVLP05101020	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99	1/IVLHH5120905.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100	3/IILFS613009258	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101	3/IIKIW4 1635.5	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102	HR5JRI3 1035.5	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103	2/IIKGM4100825	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104	2/IIKGO .5PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105	SB4JSM3 0730.5	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106	HR8KKJ4 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107	SB3KLL4 0825.5	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108	HR5JRG3101035	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109	HR8KKF4 1130.5	0.02	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110	3/IIKIU4101620	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111	HR8KKH4 1130PZ	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112	3/IIJPN3 1530.5	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113	2/IIJNJ3 0820.5	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114	SB4JSQ3 0730B	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0
115	HR8KKD4101130	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116	3/IIJPL3101530	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117	SB3KLJ4 0825.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118	3/IIJPP3 1550PZ	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119	HR5JRM3 1035B	0.01	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
120	1/IIKEL4 1210.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121	3/IIKIY4 1635PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 6 CONT.'D

122	SB3KLN4 B	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123	1/IIJLM310 .5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124	2/IIJNM3100820	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	SB4JSQ3 0730PZ	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126	HR3LSL6101950	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127	SB3LRT652 PZ	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128	SB3LRP6101500	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129	SB3LRR6261500.5	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	HR3LSR66817508	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131	HR3LSN6191750.5	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132	HR3LSP638 PZ	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133	SB3LRV6 1500B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134	HR5JRK3 1035PZ	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135	SB3KLH4100825	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 6 CONT.'D

NUMBER	SAMPLE NAME	41	42	43	44	45	46	47	48	49	50
1	1/IQ819100810	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0
2	1/IQ8K9060810.5P	0.02	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
3	2/IQCU9101655	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
4	2/IQCW9211655.5P	0.01	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0
5	3/IQEB9100940	0.03	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0
6	3/IQEI9370940.5P	0.07	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0
7	3/IQEK9740940PZ	0.08	0.0	0.01	0.0	0.30	0.0	0.0	0.0	0.0	0.0
8	3/IQEM91340940PZ	0.03	0.0	0.01	0.0	0.05	0.0	0.0	0.0	0.0	0.0
9	1/IIIQKQ9101740	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	1/IIIQKS9061740.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	2/IIIQMC9100920	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0
12	2/IIIQME9240920.	0.01	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0
13	3/IIIQNQ9101425	0.05	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0
14	3/IIIQNQ9 1425.	0.02	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0
15	3/IVQSH9320840.5	0.01	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0
16	3/IVQSF9100840	0.03	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0
17	3/IVQSJ9650840PZ	0.04	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0
18	3/IVQSM99108408	0.08	0.0	0.02	0.0	0.15	0.0	0.0	0.0	0.0	0.0
19	3/IVLPU59010208	0.02	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0
20	1/IIQGB9081610.5	0.01	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0
21	1/IIQFZ9101610	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0
22	2/IVQQV9231625.5	0.01	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0
23	3/IIIQNU9 1425	0.03	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0
24	3/IIIQNS9 1425P	0.08	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0
25	3/IIQIZ9 0925.5	0.05	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0
26	3/IIQJB9 0925PZ	0.04	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0
27	3/IIQJD9 09258	0.02	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
28	2/IIQHL910	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	2/IIQHN9 .5	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0
30	1/IVQPH9100735	0.01	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0

TABLE 6 CONT.'D

31	1/IVQPJ9130735.5	0.06	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0
32	2/IVQQT9101625	0.02	0.0	0.01	0.0	0.15	0.0	0.0	0.0	0.0	0.0
33	3/IIQIX9100925	0.05	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0
34	2/IIGUJ2141210.5	0.05	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0
35	2/IIGUH2101210	0.02	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0
36	1/IIGSQ2051730	0.02	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0
37	1/IIGSD2101730PZ	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	1/IGDN2050815.5	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0
39	1/IGNB2100815	0.06	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0
40	2/IGOU2101300	0.01	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
41	2/IGOW2141300	0.01	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
42	3/IGQX2101730	0.07	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0
43	3/IVGLL1100830	0.10	0.0	0.0	0.0	0.13	0.0	0.0	0.01	0.0	0.0
44	3/IVGLN1250830	0.04	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0
45	3/IVGLP1500830	0.04	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0
46	3/IVGLR1670830	0.12	0.0	0.0	0.0	0.20	0.03	0.0	0.0	0.0	0.0
47	3/IIGWL2101750	0.21	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0
48	3/IIGWN2271750.5	0.09	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0
49	3/IIGCJ2541750PZ	0.07	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0
50	3/IIGCL2921750P8	0.01	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0
51	3/IIGCN21311750B	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
52	3/IGQZ2241730	0.21	0.01	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0
53	3/IGCV2481730PZ	0.08	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0
54	3/IGCX2891930P=B	0.07	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0
55	3/IGCZ213017308	0.06	0.02	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0
56	3/IIIGBX2101250	0.14	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0
57	3/IIIGBZ22412505	0.14	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0
58	3/IIIGCP2481250P	0.04	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0
59	3/IIIGCT2771250	0.12	0.0	0.0	0.0	0.20	0.0	0.01	0.0	0.0	0.0
60	3/IIIGCR21061250	0.01	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0

TABLE 6 CONT.'D

61	2/IIIGZZ11314455	0.11	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0
62	2/III 1101445	0.16	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0
63	1/IIIGYC1100845	0.04	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0
64	1/IIIGYE10808455	0.03	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0
65	1/IVGLG1051645	0.02	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0
66	1/IVGLE1101645	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0
67	2/IVGMU1050914	0.01	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0
68	2/IVGHS1100914	0.03	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0
69	3/IVGLT29008308	0.03	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0
70	3/IILFH6420925PZ	0.02	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0
71	3/IILFD6100925	0.05	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0
72	2/IILD06 0925.5	0.02	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0
73	2/IKYF6101645	0.10	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0
74	3/IVLPQ5201020.5	0.04	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0
75	3/IKZV6101030	0.04	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0
76	1/IILBV6101120	0.01	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
77	3/IIILKM61914455	0.06	0.01	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0
78	3/IIILKK6101445	0.11	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0
79	2/IILDM6100925	0.04	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0
80	1/IILBX6 1120.5	0.01	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0
81	3/IKZZ6 1030PZ	0.06	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0
82	3/IIILK06381445P	0.04	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0
83	1/IVLMK5100905	0.04	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0
84	2/IKYH6 1645.5	0.12	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0
85	3/IIILKQ69014458	0.08	0.0	0.01	0.0	0.01	0.0	0.0	0.01	0.0	0.0
86	1/IKWE6 2000.5	0.06	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0
87	1/IKWC6102000	0.07	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0
88	2/IVLOC5161900.5	0.10	0.0	0.01	0.0	0.13	0.0	0.0	0.0	0.0	0.0
89	2/IVLOA5101900	0.05	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0
90	3/IILFF6210925.5	0.10	0.01	0.01	0.0	0.31	0.0	0.0	0.0	0.0	0.0
91	2/IIILIW6100855	0.05	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0

TABLE 6 CONT.'D

92	2/IIILIV61308555	0.02	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0
93	1/IIILHF6101820	0.04	0.0	0.01	0.0	0.08	0.0	0.0	0.0	0.0	0.0
94	3/IIILPS5401020P	0.12	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0
95	3/IKZX6 1030.5	0.05	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0
96	3/ILAB6 10308	0.08	0.0	0.01	0.0	0.11	0.0	0.0	0.03	0.0	0.0
97	1/IIILHH61818205	0.01	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0
98	3/IVLP05101020	0.04	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0
99	1/IVLMN5120905.5	0.01	0.0	0.0	0.0	0.05	0.0	0.0	0.01	0.0	0.0
100	3/IILFS613009258	0.04	0.0	0.02	0.0	0.18	0.0	0.0	0.0	0.0	0.0
101	3/IIKIW4 1635.5	0.01	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
102	HR5JRI3 1035.5	0.12	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0
103	2/IIKGM4100825	0.01	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
104	2/IIKGD .5PZ	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105	S84JSM3 0730.5	0.03	0.0	0.04	0.0	0.17	0.0	0.0	0.0	0.0	0.0
106	HR8KKJ4 B	0.01	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
107	S83KLL4 0825.5	0.05	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0
108	HR5JRG3101035	0.10	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0
109	HR8KKF4 1130.5	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
110	3/IIKIU4101620	0.08	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0
111	HR8KKH4 1130PZ	0.04	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0
112	3/IIJPN3 1530.5	0.06	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0
113	2/IIJNJ3 0820.5	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114	S84JSQ3 07308	0.07	0.01	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0
115	HR8KKD4101130	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
116	3/IIJPL3101530	0.04	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0
117	S83KLJ4 0825.5	0.06	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0
118	3/IIJPP3 1550PZ	0.06	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0
119	HR5JRM3 10358	0.14	0.01	0.0	0.0	0.28	0.0	0.0	0.01	0.0	0.0
120	1/IIKEL4 1210.5	0.01	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
121	3/IIKIY4 1635PZ	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0

TABLE 6 CONT.'D

122	SB3KLN4 8	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
123	1/IIJLN310 .5	0.01	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
124	2/IIJNH3100820	0.01	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0
125	SB4JSQ3 0730PZ	0.04	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0
126	HR3LSL6101950	0.06	0.01	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0
127	SB3LRT652 PZ	0.02	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0
128	SB3LRP6101500	0.03	0.0	0.01	0.0	0.11	0.0	0.0	0.0	0.0	0.0
129	SB3LRR6261500.5	0.02	0.0	0.01	0.0	0.12	0.0	0.0	0.0	0.0	0.0
130	HR3LSR66817508	0.04	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0
131	HR3LSN6191750.5	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0
132	HR3LSP638 PZ	0.02	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0
133	SB3LRV6 1500B	0.01	0.01	0.01	0.0	0.16	0.0	0.0	0.0	0.0	0.0
134	HR5JRK3 1035PZ	0.03	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0
135	SB3KLH4100825	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 6 CONT.'D

NUMBER	SAMPLE NAME	51	52	53	54	55	56	57	58	59	60
1	1/IQBI9100810	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	1/IQBK9060810.5P	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	2/IQCU9101655	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	2/IQCW9211655.5P	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
5	3/IQEB9100940	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	3/IQEI9370940.5P	0.01	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.06
7	3/IQEK9740940PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	3/IQEM91340940PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29
9	1/IIIQKQ9101740	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	1/IIIQKS9061740.	0.01	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0
11	2/IIIQMC9100920	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
12	2/IIIQME9240920.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
13	3/IIIQND9101425	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	3/IIIQNQ9 1425.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	3/IVQSM9320840.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	3/IVQSF9100840	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	3/IVQSJ9650840PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03
18	3/IVQSM99108408	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	3/IVLPU5901020B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
20	1/IIQGB9081610.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	1/IIQFZ9101610	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	2/IVQQV9231625.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	3/IIIQNU9 1425	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08
24	3/IIIQNS9 1425P	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03
25	3/IIQIZ9 0925.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	3/IIQJB9 0925PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	3/IIQJD9 09258	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03
28	2/IIQHL910	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03
29	2/IIQHN9 .5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05
30	1/IVQPH9100735	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01

TABLE 6 CONT.'D

31	1/IVQPJ9130735.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22
32	2/IVQQT9101625	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
33	3/IIQIX9100925	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	2/IIGUJ2141210.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24
35	2/IIGUH2101210	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22
36	1/IIGSQ2051730	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.08
37	1/IIGSD2101730PZ	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.08
38	1/IGDN2050815.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04
39	1/IGNB2100815	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.03
40	2/IGOU2101300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11
41	2/IGOW2141300	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.09
42	3/IGQX2101730	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.07
43	3/IVGLL1100830	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.06
44	3/IVGLN1250830	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.03
45	3/IVGLP1500830	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.04
46	3/IVGLR1670830	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04
47	3/IIGWL2101750	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19
48	3/IIGWN2271750.5	0.01	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.26
49	3/IIGCJ2541750PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06
50	3/IIGCL2921750PB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
51	3/IIGCN213117508	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
52	3/IGQZ2241730	0.0	0.0	0.01	0.0	0.0	0.0	0.01	0.0	0.0	0.03
53	3/IGCV2481730PZ	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.07
54	3/IGCX2891930P-B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04
55	3/IGCZ213017308	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.02
56	3/IIIGBX2101250	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06
57	3/IIIGBZ22412505	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05
58	3/IIIGCP2481250P	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06
59	3/IIIGCT2771250	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.05
60	3/IIIGCR21061250	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01

TABLE 6 CONT.'D

61	2/IIIGZZ11314455	0.01	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0
62	2/III 1101445	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05
63	1/IIIGYC1100845	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10
64	1/IIIGYE10808455	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17
65	1/IVGLG1051645	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06
66	1/IVGLE1101645	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03
67	2/IVGHU1050914	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68	2/IVGHS1100914	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10
69	3/IVGLT29008308	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.26
70	3/IILFM6420925PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03
71	3/IILFD6100925	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	2/IILDO6 0925.5	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73	2/IKYF6101645	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.02
74	3/IVLPQ5201020.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75	3/IKZV6101030	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
76	1/IILBV6101120	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.06
77	3/IIILKM61914455	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78	3/IIILKK6101445	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79	2/IILDM6100925	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.01
80	1/IILBX6 1120.5	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.03
81	3/IKZZ6 1030PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
82	3/IIILK06381445P	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83	1/IVLMK5100905	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10
84	2/IKYH6 1645.5	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85	3/IIILK069014458	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.02
86	1/IKWE6 2000.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87	1/IKWC6102000	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88	2/IVLOC5161900.5	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89	2/IVLOA5101900	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.01
90	3/IILFF6210925.5	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91	2/IIILIW6100855	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 6 CONT.'D

92	2/IIILIV61308558	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93	1/IIILHF6101820	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94	3/IIILPS5401020P	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95	3/IKZX6 1030.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96	3/ILAB6 1030B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
97	1/IIILHH61818205	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98	3/IWLP05101020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
99	1/IWLHH5120905.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03
100	3/IILFS613009258	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
101	3/IIKIW4 1635.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102	HR5JRI3 1035.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103	2/IIKGM4100825	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20
104	2/IIKGO .5PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21
105	SB4JSM3 0730.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
106	HR8KKJ4 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107	SB3KLL4 0825.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108	HR5JRG3101035	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109	HR8KKF4 1130.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04
110	3/IIKIU4101620	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04
111	HR8KKH4 1130PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
112	3/IIJPN3 1530.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113	2/IIJNJ3 0820.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14
114	SB4JSQ3 0730B	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.09
115	HR8KKD4101130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
116	3/IIJPL3101530	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.05
117	SB3KLJ4 0825.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04
118	3/IIJPP3 1550PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04
119	HR5JRM3 1035B	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.07
120	1/IIKEL4 1210.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25
121	3/IIKIY4 1635PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04

TABLE 6 CONT.'D

122	SB3KLN4	B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
123	1/IIJLM310	.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
124	2/IIJNH3100820		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
125	SB4JS03	0730PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
126	HR3LSL6101950		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127	SB3LRT652	PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128	SB3LRP6101500		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129	SB3LRR6261500	.5	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	HR3LSR6681750	B	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.03
131	HR3LSN6191750	.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132	HR3LSP638	PZ	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133	SB3LRV6	1500B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04
134	HR5JRK3	1035PZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
135	SB3KLH4100825		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02

TABLE 7

OCCURRENCES AND DISTRIBUTIONS OF LIVING BENTHONIC FORAMINIFERA
ON THE SOUTH TEXAS OUTER CONTINENTAL SHELF
IN SAMPLES COLLECTED DURING 1976

TABLE 7 CONT.'D

Occurrence of Living Benthonic Foraminifera of the South Texas Outer Continental Shelf in Samples Collected During Winter, 1976. (Small Core, 3.5 cm. diameter, 5 cm. deep)

Transect	I			II			III			IV		
Station	1	2	3	1	2	3	1	2	3	1	2	3
Depth (m)	18	42	134	22	49	131	25	65	106	27	47	91
Benthonic species actual counts; ( ) indicates density of individuals/10 cm^2.												
Alveolophragmum sp.								2			1	
Ammonia beccarii	76 (79.0)										(1.04)	
Ammonia pauciloculata								2 (2.1)			10 (10.4)	
Bigenerina irregularis	1 (1.04)										7 (7.3)	
Bolivina albatrossi	1 (1.04)										3 (3.12)	
Brizalina fragilis						1 (1.04)						
Brizalina hastata	1 (1.04)											
Brizalina lowmani	80 (83.2)	90 (93.6)		6 (6.24)	14 (14.56)	4						
Brizalina spinata	1 (1.04)	1 (1.04)				5 (5.2)		2 (2.1)				
Bulimina marginata		1 (1.04)	1 (1.04)									
Buliminella elegantissima	21 (21.8)	2 (2.1)		1 (1.04)								
Buliminella cf. bassendorfensis		2 (2.1)					5 (5.2)				4 (.2)	2 (2.1)

TABLE 7 CONT.'D

Transect	I			II			III			IV		
Station	1	2	3	1	2	3	1	2	3	1	2	3
Depth (m)	18	42	134	22	49	131	25	65	106	27	47	91
Cancris sagra						1 (1.04)					2 (2.1)	
Cassidulina orbicularis		1 (1.04)	1 (1.04)									
Discorbis candeiana				1 (1.04)								
Epistominella vitrea	1 (1.04)			1 (1.04)						2 (2.1)	3 (3.12)	
Eponides sp.		1 (1.04)										
Florilus grateloupi							2 (2.1)			2 (2.1)		
Fursenkoina pontoni		4 (4.2)								1 (1.04)	9 (9.4)	
Hanzawaia strattoni										4 (4.2)		
Nonion sp.		1 (1.04)										
Nonionella cf. basiloba	1 (1.04)	3 (3.12)					10 (10.4)			6 (6.24)	2	
Pseudoclavrulina mexicana		1 (1.04)									2 (2.1)	
Quinqueloculina sp.	1 (1.04)										2 (2.1)	
Reophax comprima					16 (16.6)			2 (2.1)			25 (26.0)	
Reussella atlantica											4 (4.2)	

TABLE 7 CONT.'D

Transect	I			II			III			IV		
Station	1	2	3	1	2	3	1	2	3	1	2	3
Depth (m)	18	42	134	22	49	131	25	65	106	27	47	91
Rosalina cf. floridana		1 (1.04)										
Siphotextularia affinis	1 (1.04)				7 (7.28)		1 (1.04)			1 (1.04)		
Textularia earlandi		6 (6.2)									1 (1.04)	
Trifarina bella			1 (1.04)								2 (2.1)	
Uvigerina bellula	1 (1.04)											
Uvigerina peregrina									1 (1.04)			
Uvigerina sp.		1 (1.04)										
Virgulinella sp.							2 (2.1)					

TABLE 7 CONT.'D

Distribution of Living Benthonic Foraminifera of the South Texas Outer Continental Shelf: Winter, 1976

Transect	I			II			III			IV		
Station	1	2	3	1	2	3	1	2	3	1	2	3
Total living population	186	115	3	9	37	11	45	6	2	52	67	-
Benthonic species in % total living benthonic foraminifers recovered per station.												
Alveolophragmium sp.								33.3			1.4	
Ammonia beccarii	40.9						4.4			19.2		
Ammonia pauciloculata											10.5	
Bigenerina irregularis	.5										4.5	
Bolivina albatrossi	.5											
Brizalina fragilis						9.1						
Brizalina hastata	.5											
Brizalina lowmani	43.1	78.3		66.7	37.8	36.4	51.1			30.8	3.0	
Brizalina spinata	.5	.9				45.5		33.3				
Bulimina marginata		.8	33.3									
Buliminella elegantissima	11.3	1.7		11.1								
Buliminella cf. bassendorfensis		1.7					11.1			7.7	3.0	

TABLE 7 CONT.'D

Transect	I			II			III			IV		
Station	1	2	3	1	2	3	1	2	3	1	2	3
Total living population	186	115	3	9	37	11	45	6	2	52	67	-
Carcris sagra						9.1					3.0	
Cassidulina subglobosa		.8	33.3									
Conorbina orbieularis										9.60		
Discorbis candeiana				11.1								
Epistominella vitrea	.5			11.1								
Eponides sp.		.9								3.9	4.5	
Florilus grateloupi							4.4					
Fursenkoina pontoni		3.5								3.9		
Hanzawaia strattoni										1.9	13.4	
Nonion sp.		.9								7.7		
Nonionella cf. basiloba	.5	2.6					22.2					
Pseudoclarulina mexicana		.8									3.0	
Quinqueloculina sp.	.5											
Reophax comprima					43.2			33.3			37.3	
Reussella atlantica											6.0	

TABLE 7 CONT.'D

Transect	I			II			III			IV		
Station	1	2	3	1	2	3	1	2	3	1	2	3
Total living population	186	115	3	9	37	11	45	6	2	52	67	-
Rosalina cf. floridana		.9										
Siphotextularia affinis	.5				19.0		2.2			1.9		
Textularia earlandi		5.2									1.5	
Trifarina bella			33.3								3.0	
Urigerina peregrina									50.0			
Urigerina sp.		.9										
Virgulinella sp.							4.4					

TABLE 7 CONT.'D

Distribution of Living Benthonic Foraminifera of the South Texas Outer Shelf: Spring 1976

Transect		I			II			III			IV	
Station	1	2	3	1	2	3	1	2	3	1	2	3
Total living populations	311	81	5	90	27	3	8	12	0	333	98	13
Benthonic species in % total living benthonic foraminifers recovered per station.												
Alveolophragmium sp.											1.02	
Alveolophragmium wiesneri										.30		
Ammonia beccarii	9.00									5.11		
Ammonia pauciloculata								8.33				
Ammosclaria pseudospiralis											1.02	
Bigenerina irregularis					3.70					1.50	2.04	
Brizalina fragilis											2.04	
Brizalina lowmani	5.47	17.28		1.11	11.11		75.00	58.33		42.64	22.45	23.08
Brizalina spinata		6.17						8.33		.30	3.06	7.69
Bulimina marginata			20.00							.30	3.06	7.69
Buliminella elegantissima	32.48	14.81	20.00	37.78	11.10							
Buliminella cf. bassendorfensis	3.86	3.70		23.33								
Buliminella curta				1.11								
Cancris sagra		2.47	40.00							1.50	1.02	7.69

TABLE 7 CONT.'D

Transect	I			II			III			IV		
Station	1	2	3	1	2	3	1	2	3	1	2	3
Cibicides aff. floridanus			2.0									15.38
Cassidulina subglobosa										0	0	7.69
Conorbina orbicularis										2.70		
Discorbis candeiana										3.30		
Discorbis floridensis										.30		
Discorbis cf. nitida										.30		
Elphidium poeyanum										.90	3.06	
Epistominella vitrea		4.94		1.11	3,70		12.50			3.30	1.02	
Eponides repandus											1.02	
Florilus atlantica		3.70			3.70					.30	1.02	
Florilus grateloupi	14.47	8.64		11.11						3.60	8.16	
Fursenkoina pontoni		14.81			14.82						12.24	
Hanzawaia strattoni		1.23								7.81	10.20	15.38
Lenticulina calcar										.30		
Lenticulina peregrina										.30		
Marginulina villa											1.02	

TABLE 7 CONT.'D

Transect	I			II			III			IV		
Station	1	2	3	1	2	3	1	2	3	1	2	3
Nedoeponides antillarum											2.04	7.69
Nonionella cf. basiloba	23.47	20.99		7.78	3.70		12.50			12.61	10.20	
Pseudoparrella ? decorata					3.70							
Pseudoparrella sp.												7.69
Quinqueloculina compta										.90		
Quinqueloculina lamarckiana										.90		
Quinqueloculina sp.										5.11		
Reophax comprima	.32				37.04						3.06	
Reophax diffugiformi		1.23										
Sigmoilina distorta										.30		
Siphonina bradyana						33.33						
Siphotextularia affinis										1.50	2.04	
Textularia cf. candeina				3.33								
Textularia earlandi					3.70						2.04	
Trifarina bella					3.70					.30	7.14	
Triloculina trigonula										.30		

TABLE 7 CONT.'D

Transect	I			II			III			IV		
Station	1	2	3	1	2	3	1	2	3	1	2	3
Uvigerina bellula						33.33						
Uvigerina sp.								8.33				

TABLE 7 CONT.'D

Occurrence of Living Benthonic Foraminifera of the South Texas Out r Continental Shelf in Samples Collected During Spring, 1976 (Small Core, 3.5 cm diameter, 5 cm. deep);Actual counts of benthonic species; ( ) indicates density of individuals/10 cm^2.

Transect	I			II			III			IV		
Station	1	2	3	1	2	3	1	2	3	1	2	3
Depth (m)	18	42	134	22	49	131	25	65	106	27	47	91
Alveolophragmium sp.											1 (.3)	
Alveolophragmium wiesneri										1 (.3)		
Ammonia beccarii	28 (4.4)									17 (5.1)		
Ammonia pauciloculata								1 (.3)				
Ammosclaria pseudospiralis											1 (.3)	
Bigenerina irregularis					1 (.3)					5 (1.5)	2 (.6)	
Brizalina lowmani	17 (5.1)	14 (4.2)		1 (.3)	3 (.9)		6 (1.8)	7 (2.1)		142 (42.6)	22 (6.6)	3 (1.9)
Brizalina spinata		5 (1.5)						1 (.3)		1 (.3)	3 (.9)	1 (.3)
Bulimina marginata			1 (.3)							1 (.3)	3 (.9)	1 (.3)
Bulminella elegantissima	101 (30.3)	12 (3.6)	1 (1.8)	34 (11.2)	3 (.9)					8 (2.4)		
Buliminella cf. bassendorfensis	12 (3.6)	3 (.9)		21 (6.3)								
Buliminella curta				1 (.3)								
Cancris sagra		2 (.6)	2 (.6)							5 (1.5)	1 (.3)	1 (.3)
Cibicides aff. floridanus			1 (.3)									2 (.6)
Cassidulina subglobosa												2 (.6)
Conorbina orbicularis										9 (2.7)		
Discorbis candeiana										11 (3.3)		

TABLE 7 CONT.'D

Transect	I			II			III			IV		
Station	1	2	3	1	2	3	1	2	3	1	2	3
Discorbis floridensis										1 (.3)		
Discorbis cf. nitida										1 (.3)		
Elphidium poeyanum										3 (.9)	3 (.9)	
Epistominella vitrea		4 (1.2)		1 (.3)	1 (.3)		1 (.3)			11 (3.3)	1 (.3)	
Eponides repandus											1 (.3)	
Florilus atlantica		3 (.9)			1 (.3)					1 (.3)	1 (.3)	
Florilus grateloupi	45 (13.5)	7 (2.1)		10 (3)						12 (3.6)	8 (2.4)	
Fursenkoina pontoni	0	12 (3.1)			4 (1.2)					2 (.6)	12 (3.6)	
Hanzawaia strattoni		1 (.3)								26 (7.8)	10 (3)	2 (.6)
Lenticulina calcar										1 (.3)		
Lenticulina peregrina										1 (.3)		
Marginulina villa											1 (.3)	
Nedoeponides antillarum											2 (.6)	1 (.3)
Nonion sp.										1 (.3)		
Nonionella cf. basiloba		17 (5.1)		7 (2.4)	1 (.3)		1 (.3)			42 (12.6)	10 (3)	
Pseudoparrella ? decorata					1 (.3)							
Pseudoparrella sp.												1 (.3)

TABLE 7 CONT.'D

Transect	I			II			III			IV		
Station	1	2	3	1	2	3	1	2	3	1	2	3
Quinqueloculina compta										3 (.9)		
Quinqueloculina lamarckiana										3 (.9)		
Quinqueloculina sp.										17 (5.1)		
Reophax comprima	1 (.3)				10 (3)						3 (.9)	
Reophax diffugiformia		1 (.3)										
Sigmoilina distorta										1 (.3)		
Siphonina bradyana						1 (.3)						
Siphotextularia affinis										5 (1.5)	2 (.6)	
Textularia cf. candeina				3 (.9)								
Textularia earlandi					1 (.3)						2 (.6)	
Textularia mayori										3 (.9)		
Trifarina bella					1 (.3)					1 (.3)	7 (2.1)	
Triloculina trigonula										1 (.3)		
Uvigerina bellula						1 (.3)						
Uvigerina sp.								1 (.3)				
Virgulinella sp.	34 (11.2)			12 (3.6)								

TABLE 7 CONT.'D

Distribution of Living Benthonic Foraminifera of the South Texas Outer Continental Shelf: Summer/Fall 1976
Benthonic species in % total living benthonic foraminifers recovered per station.

Transect	I			II			III			IV		
Station	1	2	3	1	2	3	1	2	3	1	2	3
Total living populations	168	67	5	137	3	19	3	2	6	5	5	1
Alveolophragmium wiesneri						5.26						
Ammonia beccarii	23.21			3.65								
Bolivina translucens									16.67			
Brizalina barbata						5.26						
Brizalina lowmani	30.36	14.93		18.98	33.33			50.00		40.00	60.00	
Brizalina spinata						26.32						
Bulimina marginata				.73								
Buliminella elegantissima	2.38			4.38					33.33		20.00	
Buliminella cf. bassendorfensis	4.17	26.87		20.44						20.00		
Elphidium poeyanum										20.00		
Enantiodentalina communis		20.00										
Florilus atlantica		1.49										
Florilus grateloupi	3.57	4.48		5.11			33.33					
Fursenkoina pontoni		43.28	20.00			26.32			16.67			

TABLE 7 CONT.'D

	I			II			III			IV		
	1	2	3	1	2	3	1	2	3	1	2	3
Lagena sp.		20.00										
Lagena spirata					33.33							
Nonionella cf. basiloba	25.00	8.96		39.42	33.33	5.26	66.69			20	20	
Reophax comprima												100
Reussella atlantica				.73								
Siphonina bradyana						21.05						
Textularia cf. candeina				1.46								
Textularia earlandi								50.00				
Uvigerina bellula		40.00										
Uvigerina peregrina						10.53			16.67			
Virgulinella sp.	11.31			5.11								

TABLE 7 CONT.'D

Occurrence of Living Benthonic Foraminifera of the South Texas Outer Continental Shelf in Samples Collected During Summer/Fall, 1976. (Small Core, 3.5 cm. diameter, 5 cm. deep)
Benthonic species actual counts; ( ) indicates density of individuals/10 cm^2.

Transect	I			II			III			IV		
Station	1	2	3	1	2	3	1	2	3	1	2	3
Depth (m)	18	42	134	22	49	131	25	65	106	27	47	91
Alveolophragmium wiesneri						1 (.3)						
Ammonia beccarii	39 (1.17)			5 (1.5)								
Bigenarina irregularis									1 (.3)			
Bolivina translucens									1 (.3)			
Brizalina barbata						1 (.3)						
Brizalina lowmani	51 (15.3)	10		26 (7.8)	1 (.3)			1 (.3)		1 (.3)	3 (.9)	
Brizalina spinata						5 (1.5)						
Bulimina marginata				1 (.3)								
Buliminella elegantissima	4 (1.2)			6			1 (.3)	1 (.3)				
Buliminella cf. bassendorfensis	7	18		28			1 (.3)					
Elphidium poeyanum							1 (.3)					
Enantiodentalina communis			1 (.3)									
Florilus atlantica		1 (.3)										
Florilus grateloupi	6 (1.8)	3 (1.9)		7 (2.1)			1 (.3)					
Fursenkoina pontoni		29 (8.7)	1 (.3)			5 (1.5)			1 (.3)			
Lagena sp.			1 (.3)									

TABLE 7 CONT.'D

Transect	I			II			III			IV		
Station	1	2	3	1	2	3	1	2	3	1	2	3
Lagena spirata					1 (.3)							
Nonionella cf. basiloba	42 (12.1)	6 (1.8)		54 (16.2)	1 (.3)	1 (.3)	2 (.6)			1 (.3)	1 (.3)	
Reophax comprima												1 (.3)
Reussella atlantica				1 (.3)								
Siphonina bradyana						4 (1.2)						
Textularia cf. candeina				2 (.6)								
Textularia earlandi								1 (.3)				
Uvigerina bellula			2 (.6)									
Uvigerina peregrina						2 (.6)			1 (.3)			
Virgulinella sp.	19 (5.7)			7 (2.1)								

APPENDIX D

ZOOPLANKTON

List of Tables

TABLE 1

SAMPLING DATA AND ZOOPLANKTON BIOMASS

JANUARY/FEBRUARY CRUISE:

Transect	Station	Code	Sampling Depth (m)	Date	Local Time	Volume of Water Filtered (m^3)	Dry Wt. of Zoopl. (mg/m^3)	Subsample Size
I	1	GNG	18-0	2/3	09:51-10:03	270.2	9.8	1/16
		GNI	18-0	2/3	10:07-10:22	479.9	9.5	1/16
	2	GOZ	40-0	2/2	23:18-23:33	196.2	29.3	1/16
		GPD	40-0	2/2	23:57-00:12	211.2	24.1	1/16
	3	GRE	134-0	2/3	19:45-20:00	729.4	12.5	1/32
		GRG	134-0	2/3	20:04-20:19	687.5	10.4	1/32
II	1	GST	22-0	2/2	17:53-18:08	422.3	16.9	1/16
		GSV	22-0	2/2	18:12-18:27	423.0	13.3	1/16
	2	GUO	49-0	2/2	13:04-13:19	303.6	27.7	1/32
		GUQ	49-0	2/2	13:22-13:37	234.6	34.2	1/32

TABLE 1. CONT.'D

	3	GWS	130-0	1/2	20:12-20:28	443.6	13.9	1/16
		GWU	130-0	1/2	20:33-20:47	352.4	16.9	1/32
III	1	GYJ	25-0	1/31	10:01-10:15	232.3	18.5	1/16
		GYL	25-0	1/31	10:21-10:36	266.6	13.4	1/16
	2	GAE	60-0	2/1	09:36-09:50	360.3	14.6	1/16
		GAG	60-0	2/1	09:54-10:08	340.4	12.5	1/16
	3	GCC	106-0	2/1	15:12-15:27	485.6	19.8	1/16
		GCG	106-0	2/1	15:51-16:06	421.4	19.1	1/32
IV	1	GKX	27-0	1/30	16:51-17:06	303.2	23.9	1/16
		GLB	27-0	1/30	17:32-17:46	235.7	28.1	1/32
	2	GGN	47-0	1/14	01:24-01:39	867.4	13.6	1/16
		GGO	47-0	1/14	01:42-01:57	849.6	14.3	1/32
	3	GJM	91-0	1/30	09:36-09:52	573.5	9.8	1/16
		GJO	91-0	1/30	09:55-10:10	344.8	11.5	1/16

[1]Ash-free dry weight was not determined for January/February samples following the BLM work statements.

TABLE 1. CONT.'D

TRANSECT II-MARCH/APRIL CRUISE:

Cruise	Station	Code	Sampling Depth (m)	Date	Local Time	Volume of Water Filtered (m^3)	Dry Wt. of Zoopl. (mg/m^3)	Ash-Free Dry Wt. of Zoopl. (mg/m^3)	Subsample Size
March	1	JLP	22-0	3/18	14:45-14:58	255.7	13.8	12.2	1/8
		JLR	22-0	3/18	15:32-15:47	225.4	28.3	23.8	1/16
	2	JNO	48-0	3/18	20:20-20:25	520.5	19.1	16.9	1/16
		JNM	48-0	3/18	19:55-20:10	705.3	13.0	11.6	1/16
	3	JPW	130-0	3/19	18:51-19:06	458.4	15.9	12.8	1/16
		JPY	130-0	3/19	19:15-19:30	460.7	18.5	15.2	1/16
April	1	KEO	22-0	4/8	14:17-14:25	236.6	33.5	29.1	1/16
		KES	22-0	4/8	14:55-15:03	254.1	23.6	19.5	1/16
	2	KGT	48-0	4/9	19:53-11-07	872.6	15.5	14.1	1/16
		KGV	48-0	4/9	11:16-11:30	874.0	14.2	12.8	1/32
	3	KJD	127-0	4/10	16:45-17:00	874.5	13.4	11.7	1/16
		KJF	127-0	4/10	17:08-17:23	751.5	11.0	9.6	1/16

TABLE 1. CONT.'D

MAY/JUNE CRUISE:

Transect	Station	Code	Sampling Depth (m)	Date	Local Time	Volume of Water Filtered (m^3)	Dry Wt. of Zoopl. (mg/m^3)	Ash-Free Dry Wt. of Zoopl. (mg/m^3)	Subsample Size
I	1	KXD	13-0	6/7	20:39-20:45	393.1	42.8	35.4	1/16
		KXF	13-0	6/7	20:48-20:54	347.5	59.8	45.7	1/16
	2	KZG	55-0	6/7	15:10-15:24	426.0	66.1	58.2	1/32
		KZI	55-0	6/7	15:27-15:42	334.2	54.8	48.0	1/32
	3	LBB	132-0	6/6	23:15-23:30	579.5	8.2	7.3	1/8
		LBD	132-0	6/6	23:33-23:48	594.9	8.0	7.2	1/8
II	1	LCY	16-0	6/3	12:46-12:52	223.8	38.1	32.2	1/16
		LDA	17-0	6/3	12:57-13:04	267.1	37.9	31.8	1/16
	2	LEQ	48-0	6/5	00:15-00:29	135.0	85.9	69.8	1/16

TABLE 1. CONT.'D

		LES	49-0	6/5	00:30-00:45	147.9	52.1	42.8	1/16
	3	LGJ	80-0	6/6	21:27-21:43	851.7	7.4	6.8	1/8
		LGL	89-0	6/6	21:46-22:01	730.2	9.8	9.0	1/16
III	1	LII	17-0	6/3	19:15-19:22	345.1	71.7	61.6	1/32
		LIK	13-0	6/3	19:25-19:31	331.9	70.9	58.4	1/32
	2	LJY	67-0	6/4	10:09-10:23	136.0	66.1	51.4	1/16
		LKA	70-0	6/4	10:25-10:40	131.5	75.1	57.4	1/16
	3	LLQ	77-0	6/5	16:52-17:06	665.0	16.7	12.8	1/32
		LLS	82-0	6/5	17:11-17:26	503.3	27.3	20.7	1/32
IV	1	LNL	20-0	5/30	10:29-10:35	367.8	17.4	15.7	1/32
		LNN	31-0	5/30	10:44-10:51	422.0	36.5	32.8	1/32
	2	LPC	49-0	5/29	23:25-23:40	514.8	15.5	13.5	1/16
		LPE	32-0	5/29	23:57-00:12	381.1	23.0	20.1	1/16
	3	LQS	76-0	5/30	22:11-22:26	888.8	7.5	6.6	1/16
		LQU	68-0	5/30	22:31-22:46	671.9	9.8	8.7	1/16

TABLE 1. CONT.'D

TRANSECT II-JULY/AUGUST CRUISE:

Cruise	Station	Code	Sampling Depth (m)	Date	Local Time	Volume of Water Filtered (m^3)	Dry Wt. of Zoopl. (mg/m^3)	Ash-Free Dry Wt. of Zoopl. (mg/m^3)	Subsample Size
July	1	OCD	22-0	7/10	13:15-13:24	540.7	17.4	14.9	1/8
		OCF	22-0	7/10	13:35-13:47	543.3	25.1	20.5	1/16
	2	OEA	49-0	7/10	19:55-20:10	999.0	20.4	17.1	1/8
		OEE	49-0	7/10	20:35-20:50	969.1	11.4	9.9	1/8
	3	OFV	131-0	7/11	17:10-17:25	1101.2	4.7	3.9	1/8
		OFX	131-0	7/11	17:30-17:45	1060.8	4.6	3.9	1/8
August	1	PEK	22-0	8/28	17:15-17:22	339.9	22.3	16.4	1/16
		PEM	22-0	8/28	17:30-17:37	307.9	34.2	28.2	1/16
	2	PFX	49-0	8/28	13:40-13:54	550.1	12.5	9.3	1/8
		PGC	49-0	8/27	14:25-14:39	576.6	11.1	7.7	1/8
	3	PHP	130-0	8/27	21:40-21:55	367.8	11.1	9.3	1/8
		PHR	130-0	8/27	22:00-22:15	370.7	15.4	13.1	1/8

TABLE 1. CONT.'D

SEPTEMBER CRUISE:

Transect	Station	Code	Sampling depth (m)	Date	Local Time	Volume of Water Filtered (m^3)	Dry Wt. of Zoopl. mg/m^3	Ash-Free Dry Wt. of Zoopl. (mg/m^3)	Subsample Size
I	1	QCK	18-0	9/15	21:55-22:06	390.0	28.5	22.2	1/16
		QCM	18-0	9/15	22:15-22:25	383.9	28.6	22.5	1/16
	2	QDW	42-0	9/15	18:25-18:40	384.5	15.2	10.5	1/16
		QDY	42-0	9/15	18:45-19:00	346.8	37.6	25.1	1/16
	3	QFK	134-0	9/15	11:40-11:54	850.7	4.2	3.8	1/8
		QFM	134-0	9/15	12:00-12:15	798.4	4.6	4.1	1/8
II	1	QHB	22-0	9/15	17:50-17:59	564.8	14.6	14.1	1/8
		QHD	22-0	9/15	18:05-18:14	561.5	25.5	10.3	1/8
	2	QIN	48-0	9/14	17:10-17:25	755.1	7.9	5.8	1/8
		QIP	48-0	9/14	17:35-17:50	777.5	8.4	7.3	1/8

TABLE 1. CONT.'D

	3	QKB	131-0	9/13	21:05-21:19	378.0	19.2	17.0	1/8
		QKF	131-0	9/13	21:45-22:00	444.6	10.4	9.1	1/8
III	1	QLS	25-0	9/12	18:55-18:60	203.1	59.9	41.6	1/16
		QLU	25-0	9/12	19:10-19:15	198.1	79.5	45.6	1/32
	2	QNC	67-0	9/13	10:25-10:40	652.0	14.2	12.5	1/16
		QNG	67-0	9/13	11:10-11:25	604.3	12.4	11.2	1/8
	3	QOU	106-0	9/13	16:20-16:35	302.2	19.3	16.9	1/8
		QOW	106.0	9/13	16:45-17:00	277.0	23.9	20.9	1/8
IV	1	QQJ	26-0	9/12	09:40-09:50	275.0	16.6	11.7	1/8
		QQL	26-0	9/12	10:00-10:10	235.7	24.4	14.3	1/8
	2	QRT	46-0	9/11	17:50-18:04	430.7	15.3	11.8	1/8
		QRX	46-0	9/11	18:10-18:26	451.2	17.3	13.5	1/8
	3	QTL	92-0	9/11	11:50-12:05	862.4	4.8	4.3	1/8
		QTN	92-0	9/11	12:10-12:26	847.0	5.7	4.9	1/8

TABLE 1. CONT.'D

TRANSECT II-NOVEMBER/DECEMBER CRUISE:

Cruise	Station	Code	Sampling Depth (m)	Date	Local Time	Volume of Water Filtered (m^3)	Dry Wt. of Zoopl. (mg/m^3)	Ash-Free Dry Wt. of Zoopl. (mg/m^3)	Subsample Size
November	1	UUP	22-0	11/10	10:50-10:56	198.7	37.0	26.8	1/16
		UUT	22-0	11/10	11:10-11:16	286.8	35.4	26.0	1/16
	2	UWE	48-0	11/9	20:05-20:15	469.7	19.9	17.5	1/16
		UWG	48-0	11/9	20:20-20:28	467.6	16.2	12.5	1/16
	3	UXY	129-0	11/9	13:55-14:10	750.1	9.0	7.9	1/16
		UYA	129-0	11/9	14:20-14:34	688.2	13.8	12.3	1/16
December	1	VSA	21-0	12/1	13:25-13:30	291.5	22.4	19.9	1/8
		VSC	21-0	12/1	13:35-13:40	292.7	12.8	10.8	1/8
	2	VTV	48-0	12/2	18:45-18:52	437.3	14.0	11.0	1/8
		VTX	48-0	12/2	19:05-19:15	481.4	15.9	13.0	1/8
	3	VVP	129-0	12/2	13:35-13:50	808.4	6.7	5.7	1/8
		VVT	129-0	12/2	14:15-14:30	760.8	16.0	14.2	1/16

TABLE 2

SIZE OF SUBSAMPLE EXAMINED AND NUMBER OF ZOOPLANKTERS PER SUBSAMPLE

JANUARY/FEBRUARY CRUISE

Transect	Station	Code	Subsample Size	Number per Subsample
I	1	GNG	1/128	1813
		GNI	1/256	1179
	2	GOZ	1/256	1672
		GPD	1/64	1843
	3	GRE	1/512	1972
		GRG	1/256	1375
II	1	GST	1/1024	966
		GSV	1/512	1284
	2	GUO	1/256	1124
		GUQ	1/256	1719
	3	GWS	1/256	1292
		GWU	1/128	3004
III	1	GYJ	1/256	1731
		GYL	1/256	1088
	2	GAE	1/128	1791
		GAG	1/128	1818
	3	GCC	1/256	1499
		GCG	1/256	1503
IV	1	GKX	1/1024	1308
		GLB	1/512	1571

TABLE 2. CONT.'D

IV	2	GGN	1/512	2401
		GGO	1/1024	1488
	3	GJM	1/64	3693
		GJO	1/64	4096

TABLE 2. CONT.'D

TRANSECT II - MARCH/APRIL CRUISE

Cruise	Station	Code	Subsample Size	Number per Subsample
March	1	JLP	1/512	1727
		JLR	1/512	2051
	2	JNM	1/128	1733
		JNO	1/512	1713
	3	JPW	1/256	1632
		JPY	1/256	1812
April	1	KEO	1/512	3792
		KES	1/256	2036
	2	KGT	1/512	1749
		KGV	1/512	2162
	3	KJD	1/256	2494
		KJF	1/512	2178

TABLE 2. CONT.'D

MAY/JUNE CRUISE

Transect	Station	Code	Subsample Size	Number per Subsample
I	1	KXD	1/256	2609
		KXF	1/256	3127
	2	KZG	1/1024	2261
		KZI	1/512	3098
	3	LBB	1/128	2612
		LBD	1/128	2802
II	1	LCY	1/256	1745
		LDA	1/256	1813
	2	LEQ	1/256	2609
		LES	1/256	1423
	3	LGJ	1/256	1541
		LGL	1/256	1392
III	1	LII	1/256	3774
		LIK	1/256	2586
	2	LJY	1/256	1279
		LKA	1/128	2144
	3	LLQ	1/512	1378
		LLS	1/512	1546
IV	1	LNL	1/256	1989
		LNN	1/1024	1201

TABLE 2. CONT.'D

IV	2	LPC	1/256	1751
		LPE	1/256	1508
	3	LQS	1/256	1404
		LQU	1/256	1666

TABLE 2. CONT.'D

TRANSECT II

JULY/AUGUST CRUISE

Cruise	Station	Code	Subsample Size	Number per Subsample
July	1	OCD	1/256	4294
		OCF	1/512	2940
	2	OEA	1/1024	2651
		OEE	1/512	1592
	3	OFV	1/128	3614
		OFX	1/128	3347
August	1	PEK	1/256	16505
		PEM	1/512	6924
	2	PFX	1/128	2713
		PGB	1/128	3156
	3	PHR	1/128	2419
		PHP	1/128	2018

TABLE 2. CONT.'D

SEPTEMBER CRUISE

Transect	Station	Code	Subsample Size	Number per Subsample
I	1	QCK	1/128	2598
		QCM	1/128	2888
	2	QDW	1/128	3622
		QDY	1/256	3464
	3	QKF	1/256	2204
		QFM	1/256	3201
II	1	QHB	1/1024	2390
		QHD	1/512	3488
	2	QIN	1/128	2270
		QIP	1/128	1609
	3	QKB	1/128	2494
		QKF	1/128	3699
III	1	QLS	1/1024	1592
		QLU	1/1024	1493
	2	QNC	1/512	2037
		QNG	1/512	1890
	3	QOU	1/256	1950
		QOW	1/256	2661
IV	1	QQJ	1/256	1884
		QQL	1/256	1267

TABLE 2. CONT.'D

IV	2	QRT	1/128	2589
		QRX	1/128	1943
	3	QTL	1/256	1983
		QTN	1/256	2293

TABLE 2. CONT.'D

TRANSECT II - NOVEMBER/DECEMBER CRUISE

Cruise	Station	Code	Subsample Size	Number per Subsample
November	1	UUP	1/256	1871
		UUT	1/256	1921
	2	UWE	1/256	2630
		UWG	1/128	4043
	3	UXY	1/128	4956
		UYA	1/512	2172
December	1	VSA	1/512	3190
		VSC	1/256	2759
	2	VTV	1/512	2510
		VTX	1/512	2537
	3	VVP	1/256	3242
		VVT	1/256	3728

TABLE 3

NUMERICAL ABUNDANCE OF ZOOPLANKTON PER M^3

MEAN OF TWO SAMPLES PER STATION

JANUARY/FEBRUARY CRUISE

Transect	I			II		
Station	1	2	3	1	2	3
No. of Zooplankters/m^3	743.9	1370.1	948.1	1948.3	1411.8	918.4
Copepoda	459.8	637.5	714.6	1443.1	717.5	655.4
Others	284.2	732.6	233.6	505.2	694.3	263.1
Foraminifera	0	0.7	1.9	0	10.7	14.0
Radiolaria	1.2	2.4	1.1	2.4	23.5	3.6
Cladocera						
Penilia	1.3	10.3	0	40.0	3.2	0
Ostracoda						
Euconchoecia	21.9	464.2	42.9	212.6	452.0	31.9
Conchoecia	0	6.8	5.2	0	3.4	21.0
Other ostracods	0	2.6	0	0	0	0
Mysidacea	0.6	2.1	0.7	1.2	0	0
Amphipoda	1.5	25.6	6.7	23.7	18.8	6.2
Euphausiacea	0	0	0	0	0	6.8
Lucifer	0	0.7	2.0	1.2	1.0	1.4
Other crustaceans	0	0.2	0	0.6	0	0
Barnacle nauplii	1.7	0	0.4	4.2	0	0
Barnacle cypris	54.2	25.3	0	12.2	2.6	0.2
Other nauplii	8.0	4.1	3.8	1.2	4.1	19.9
Decapod zoea	0.6	0	0.4	0	0.4	0.3
Decapod megalopa	0	0	0.4	0	0	0
Other Decapod larvae	0	0.7	8.8	0	3.2	3.8
Stomatopod larvae	0	2.3	0	0.6	0.6	0
Other crustacean larvae	0	8.3	6.8	1.8	8.9	9.5
Medusae	54.6	22.0	26.4	32.7	19.2	19.0

TABLE 3. CONT.'D

Polychaeta	12.1	4.6	0.6	8.5	6.1	1.9
Gastropod larvae	4.1	11.8	10.9	20.6	17.1	33.0
Heteropoda	0	0	0.2	0	0	0.5
Pteropoda	0	0.8	1.8	0.6	3.6	1.8
Cephalopoda	0	0	0	0	0.6	0.2
Bivalve larvae	29.5	19.3	4.5	91.5	15.8	11.3
Chaetognatha	31.7	44.1	21.8	14.0	51.4	17.9
Larvacea	56.4	62.7	70.4	32.7	41.6	52.2
Doliolum	4.9	1.6	4.4	3.0	4.2	2.9
Salpa	0.3	8.9	2.9	0	0.9	1.9
Echinoderm larvae	0	0.9	0.4	0	1.1	2.6
Others	0	0.3	0.2	0	0.9	0.2

TABLE 3. CONT.'D

Transect	III			IV		
Station	1	2	3	1	2	3
No. of Zooplankters/m^3	1476.2	660.0	851.7	3915.1	1605.3	586.2
Copepoda	857.4	494.4	713.3	3042.7	746.0	368.0
Others	618.8	165.6	138.4	872.4	859.4	218.2
Foraminifera	0.5	8.6	7.9	0	2.1	5.8
Radiolaria	0	5.4	4.9	0	21.4	3.0
Cladocera						
Penilia	42.2	0	0.6	149.3	1.2	0
Ostracoda						
Euconchoecia	244.3	18.1	11.2	84.3	603.0	46.5
Conchoecia	0.5	7.6	1.2	1.1	1.8	8.4
Mysidacea	0	0	0	0	0.3	0
Amphipoda	12.2	3.9	0.9	67.0	18.9	3.1
Euphausiacea	0	2.4	0.3	0	0	0
Lucifer	1.5	1.5	2.5	0	0.6	0.4
Barnacle nauplii	0.5	0.2	0	5.0	0	0.1
Barnacle cypris	0	0	0	1.7	0	0.2
Other nauplii	0.6	12.5	9.4	12.8	3.0	12.1
Decapod zoea	0.5	0.4	0.3	0	4.8	0
Decapod megalopa	0	0.4	0	0	0	0.7
Other Decapod larvae	1.5	1.9	3.4	1.7	5.4	2.4
Stomatopod larvae	2.6	0	0	0	0	0
Other crustacean larvae	3.0	3.5	1.9	2.8	2.7	4.8
Medusae	45.7	23.5	19.9	356.9	27.5	16.9
Polychaeta	2.6	2.6	0.6	1.7	1.8	3.8

TABLE 3. CONT.'D

Gastropod larvae	9.0	9.1	4.3	15.0	23.7	9.4
Heteropoda	0	0.2	0.3	0	0	0.2
Pteropoda	0	3.7	1.8	0	2.4	1.5
Cephalopoda	0	0	0	0	0	0.1
Bivalve larvae	118.3	6.3	2.7	39.1	86.9	10.7
Other mollusca	0	0	0	0	0	0.5
Chaetognatha	20.9	16.7	14.2	18.1	40.0	21.0
Larvacea	84.7	32.3	44.6	99.9	6.9	55.7
Doliolum	23.2	2.4	2.6	13.7	1.8	5.1
Salpa	4.2	0.9	1.2	1.1	0	1.3
Echinoderm larvae	0	1.5	2.1	0	3.6	2.8
Others	0.6	0.4	0	1.7	0	2.2

TABLE 3. CONT.'D

TRANSECT II - MARCH/APRIL CRUISE

Cruise	March			April		
Station	1	2	3	1	2	3
Average No./m^3	3784.8	997.8	956.1	5123.1	1145.2	736.0
Copepoda	1435.5	516.6	690.4	2045.2	884.1	485.4
Others	2349.4	481.3	265.7	3078.1	111.1	250.7
Foraminifera	1.0	0.3	0.6	0	5.6	6.8
Radiolaria	12.1	1.7	2.8	0.5	0	15.4
Cladocera						
Evadne	0	2.0	0	0	0.6	0.6
Penilia	1144.3	42.5	0.9	13.3	1.8	2.6
Podon	232.5	18.2	0.6	152.7	21.1	10.8
Ostracoda						
Euconchoecia	45.1	212.0	63.6	3.3	20.3	21.2
Conchoecia	0	0.5	15.6	0	0	5.1
Mysidacea	0	0	0.6	0.5	0	0
Amphipoda	8.0	33.7	22.6	2.6	16.5	11.4
Euphausiacea	0	0	0	0	0	0.2
Lucifer	0	2.2	2.0	1.6	4.1	0.2
Barnacle nauplii	0	0	0	1.0	0	0
Barnacle cypris	8.0	0.5	0.6	0	0	0
Other nauplii	0	1.0	1.4	0.5	0	1.0
Decapod zoea	15.0	2.5	1.4	4.7	21.1	0.3
Decapod megalopa	0	0.1	0.3	0	0.6	0.2
Other Decapod larvae	6.0	6.9	3.4	5.8	8.8	3.1
Stomatopod larvae	5.0	0.6	1.7	0	2.1	0
Other crustacean larvae	1.0	0.5	0.9	0	1.5	3.4

TABLE 3. CONT.'D

Medusae	8.0	7.0	7.6	2.2	10.0	16.1
Polychaeta	12.0	8.6	2.0	3.2	0.6	1.6
Gastropod larvae	428.7	12.1	17.0	0.5	28.4	18.3
Heteropoda	0	1.0	0.6	0	2.7	0.9
Pteropoda	9.0	7.9	15.3	4.8	19.9	7.9
Bivalve larvae	189.4	8.6	4.5	2693.8	36.1	92.0
Chaetognatha	7.0	46.2	29.2	51.5	39.0	9.4
Larvacea	183.4	62.8	68.3	130.1	15.3	19.8
Doliolum	16.1	2.2	2.5	4.3	5.3	1.2
Salpa	17.0	0.1	0	0	0.3	0.4
Echinoderm larvae	0	0	0	1.5	0	0.5
Others	1.0	0	0.6	0	0	0.6

TABLE 3. CONT.'D

MAY/JUNE CRUISE

Transect	I			II		
Station	1	2	3	1	2	3
Average No./m^3	2001.4	5090.6	589.9	1866.9	3705.3	475.6
Copepoda	925.4	1829.6	419.9	978.7	1822.4	340.9
Others	1076.0	3261.0	170.1	888.2	1882.9	134.7
Foraminifera	2.7	11.4	8.1	39.1	7.5	1.5
Radiolaria	0	4.8	14.5	164.2	8.0	12.3
Cladocera						
Evadne	0	0	0.6	0	0	0.5
Penilia	0	0	0	0	2.6	0
Podon	1.5	0	10.1	0.5	0	15.3
Ostracoda						
Euconchoecia	21.2	1362.7	0.8	6.9	936.4	4.8
Conchoecia	0	0.8	8.6	0	0	3.6
Mysidacea	0	3.5	0.1	0	0	0
Amphipoda	39.1	149.1	3.5	13.9	84.5	4.0
Euphausiacea	0	0	0.2	0	0	0
Lucifer	8.7	22.9	1.6	5.7	14.5	2.4
Other crustaceans	0	0	1.4	0	0	0
Barnacle nauplii	0	0	0.2	0	0	1.0
Barnacle cypris	0.4	9.0	0	0	1.0	0
Other nauplii	7.5	3.9	1.1	0	6.3	2.6
Decapod zoea	46.3	54.2	7.8	20.9	18.3	2.6
Decapod megalopa	4.0	3.5	0.2	0.6	0.9	0
Other Decapod larvae	21.9	39.1	2.0	4.1	22.7	2.9
Stomatopod larvae	2.5	6.3	1.2	0.6	3.7	0.5

TABLE 3. CONT.'D

Other crustacean larvae	0	25.5	1.4	1.7	10.1	1.4
Medusae	5.9	66.8	11.0	10.7	34.9	6.3
Polychaeta	5.0	5.2	4.4	2.2	5.5	2.6
Gastropod larvae	190.8	964.2	21.2	49.3	175.8	9.1
Heteropoda	0.4	5.1	2.1	0.6	2.9	1.2
Pteropoda	392.6	280.0	9.3	303.0	206.9	15.6
Bivalve larvae	72.3	83.6	3.6	16.1	40.6	2.8
Chaetognatha	235.8	104.6	21.8	148.2	149.0	31.0
Larvacea	11.6	20.9	25.3	90.6	125.3	6.6
Doliolum	0.7	10.6	2.3	1.5	9.9	1.5
Salpa	5.9	23.8	2.4	7.2	15.7	3.0
Echinoderm larvae	0	0	3.0	1.1	0	0.2
Others	0	0	0.8	0	1.0	0

TABLE 3. CONT.'D

Transect	III			IV		
Station	1	2	3	1	2	3
Average No./m^3	2397.1	2247.2	1316.9	2149.4	941.9	519.6
Copepoda	744.5	1252.0	889.5	1466.0	682.3	342.1
Others	1652.6	995.2	427.4	683.4	259.6	177.5
Foraminifera	12.4	8.2	9.9	3.9	1.4	1.5
Radiolaria	21.2	46.3	7.8	3.2	4.2	16.7
Cladocera						
Evadne	0	1.5	0	0.4	0.5	3.4
Penilia	0.4	2.4	0	19.1	0	0
Podon	1.5	5.7	7.4	0	3.1	4.7
Ostracoda						
Euconchoecia	1015.1	108.8	18.4	79.6	19.4	5.5
Conchoecia	0	0	5.4	0	1.6	4.3
Mysidacea	0	0.5	0	0	0	0
Amphipoda	68.9	23.1	6.1	9.7	15.6	9.7
Euphausiacea	0	0	0	0	0.3	0
Lucifer	54.4	14.9	0	22.4	5.4	0.7
Other crustaceans	0	0	0	0	0	0.2
Barnacle nauplii	0	0	0	0	0.6	0
Barnacle cypris	0	3.9	0.8	0	1.1	0.2
Other nauplii	2.7	2.4	1.3	0	0	3.3
Decapod zoea	16.2	6.2	5.1	12.7	13.8	4.5
Decapod megalopa	1.2	2.9	0.5	2.8	0.7	0.5
Other Decapod larvae	18.3	17.2	5.9	50.7	3.4	6.5
Stomatopod larvae	2.3	12.4	3.5	1.2	5.3	2.1

TABLE 2.CONT.'D

Other crustacean larvae	1.2	2.8	2.3	5.1	3.7	3.1
Medusae	8.6	98.2	16.5	12.7	11.7	16.5
Polychaeta	4.2	4.4	4.3	5.9	1.7	2.2
Gastropod larvae	77.6	38.2	26.9	121.8	31.9	8.2
Heteropoda	1.2	0.5	3.0	3.2	3.0	0.3
Pteropoda	144.7	157.0	195.5	74.1	48.2	20.5
Bivalve larvae	6.4	6.7	13.2	12.0	4.0	3.0
Cephalopoda	0	0	0	0	0.4	0
Chaetognatha	152.2	203.0	59.8	228.4	54.8	32.6
Larvacea	36.2	149.4	11.5	13.8	11.9	15.4
Doliolum	0.8	38.4	6.3	0.4	5.1	1.8
Salpa	3.8	14.6	4.4	0	0.7	1.3
Other urochordates	0	25.4	12.2	0	6.9	1.9
Echinoderm larvae	1.9	0	0	0	0	1.3
Others	0	1.0	0	1.2	0	6.7

TABLE 3. CONT.'D

TRANSECT II - JULY/AUGUST CRUISE

Cruise	July			August		
Station	1	2	3	1	2	3
Average No./m^3	2401.8	1779.2	412.0	12141.5	666.0	768.8
Copepoda	1118.2	652.0	216.4	484.6	338.8	454.4
Others	1283.7	1127.3	195.7	11656.8	327.2	314.5
Foraminifera	5.9	4.0	5.5	2.4	14.9	15.8
Radiolaria	0.9	7.2	26.5	7.4	4.0	2.5
Cladocera						
Penilia	692.2	3.9	0.1	10243.1	12.3	4.0
Podon	11.6	2.1	0.4	88.1	26.2	5.4
Ostracoda						
Euconchoecia	122.7	860.4	1.4	0.4	7.4	99.4
Conchoecia	0	0	9.4	0	0	15.1
Mysidacea	0	0	0	0	0	0.2
Amphipoda	10.6	27.0	2.9	8.5	2.9	15.1
Lucifer	23.4	10.1	1.6	15.1	6.8	3.9
Other crustaceans	0	0	0.1	0	0	0
Barnacle nauplii	0.7	0.5	0.1	0	0.2	0
Barnacle cypris	0	0	0.1	0	0	0
Other nauplii	5.2	0	0.1	6.7	0.1	0
Decapod zoea	30.7	6.2	0.4	11.8	16.6	4.0
Decapod megalopa	1.2	0	0.5	0.4	0.4	0.7
Other Decapod larvae	36.6	5.0	1.6	29.2	4.1	8.7
Stomatopod larvae	3.6	1.9	2.4	0	1.5	0
Other crustacean larvae	14.5	0.6	2.0	17.7	2.4	0.5

TABLE 3. CONT.' D

Medusae	35.9	22.7	10.5	15.4	25.0	11.0
Polychaeta	5.0	2.1	3.3	4.8	1.9	2.3
Gastropod larvae	48.6	51.6	39.3	503.1	111.3	23.0
Heteropoda	2.9	2.1	3.6	14.1	1.7	1.8
Pteropoda	40.4	12.5	2.9	215.6	36.4	7.2
Cephalopoda	0	0	0.1	0	0	0
Bivalve larvae	89.6	6.2	2.3	352.7	4.1	7.1
Chaetognatha	69.9	87.1	39.6	79.6	35.8	12.7
Larvacea	30.2	8.0	32.7	36.8	7.5	16.7
Doliolum	0.5	1.3	1.2	3.3	1.1	20.0
Salpa	1.0	3.7	4.2	0	2.7	37.3
Echinoderm larvae	0.5	1.6	1.7	0	0.2	0.5
Others	0	0	0	0.9	0	0.3

TABLE 3. CONT.'D

SEPTEMBER CRUISE

Transect	I			II		
Station	1	2	3	1	2	3
Average No./m^3	907.8	1881.4	844.8	3756.8	324.9	954.7
Copepoda	483.2	686.7	565.3	694.5	241.9	624.6
Others	424.7	1194.8	279.6	3062.4	83.0	330.2
Foraminifera	0	6.0	3.7	0.9	1.1	15.2
Radiolaria	0	3.9	20.3	0	1.8	12.4
Cladocera						
Penilia	27.6	169.2	0.5	2143.6	1.1	11.3
Podon	83.1	80.7	4.3	108.1	3.2	8.6
Ostracoda						
Euconchoecia	0	102.8	1.5	0	2.3	73.8
Conchoecia	0	0	4.6	0	0	7.5
Mysidacea	1.7	3.7	0	0	0	0.2
Amphipoda	33.8	30.1	1.6	3.7	2.7	13.2
Euphausiacea	0	0	0.3	0	0	0.2
Lucifer	6.8	9.5	0.8	2.7	1.9	1.0
Other crustaceans	1.7	4.7	0.2	0.5	0	0
Barnacle nauplii	0.7	0	0	0	0	0.3
Barnacle cypris	0	0	0	0	0	0.2
Other nauplii	3.5	5.7	0.8	0.9	0.1	0.3
Decapod zoea	9.6	38.3	0.3	15.0	4.9	1.5
Decapod megalopa	0.7	0.7	0	0	0.3	0.2
Other Decapod larvae	20.9	44.4	2.8	23.6	2.5	7.9
Stomatopod larvae	0.5	0	0.8	3.2	0.1	0.2
Other crustacean larvae	8.9	1.9	2.7	1.4	0.4	0.6

TABLE 3. CONT.'D

Medusae	15.6	31.4	29.3	3.2	14.6	31.7
Polychaeta	1.5	6.1	47.0	6.8	0.5	3.3
Gastropod larvae	24.2	168.1	101.7	87.8	11.7	21.9
Heteropoda	0.5	7.9	0.2	1.8	0.5	0.7
Pteropoda	7.6	64.5	2.6	167.1	3.0	8.1
Bivalve larvae	68.8	222.0	4.5	447.8	0.7	2.4
Chaetognatha	43.7	94.2	29.3	22.7	9.8	28.7
Larvacea	5.6	30.4	16.8	2.3	6.8	68.1
Doliolum	9.9	47.9	1.9	13.6	3.3	4.6
Salpa	40.6	13.6	1.9	5.0	8.7	5.7
Other urochordates	0	1.4	0	0	0	1.0
Echinoderm larvae	5.8	6.1	0	0.9	1.6	0.4
Others	1.8	0.4	0	0	0	0

TABLE 3. CONT.'D

Transect	III			IV		
Station	1	2	3	1	2	3
Average No./m^3	7872.1	1600.5	2055.6	1565.0	660.3	640.8
Copepoda	4156.8	1054.6	1272.9	1175.5	451.2	399.9
Others	3715.3	545.9	782.7	389.5	209.3	241.1
Foraminifera	12.8	12.2	21.4	6.0	11.3	20.7
Radiolaria	2.6	4.3	19.1	0	1.5	88.1
Cladocera						
Penilia	1830.1	53.6	2.7	0	0	0.3
Podon	170.8	72.7	31.0	3.9	12.7	0
Ostracoda						
Euconchoecia	0	72.1	329.8	39.4	5.0	1.4
Conchoecia	0	0.4	2.7	0	0.5	6.4
Mysidacea	2.6	0	0	0	0	0
Amphipoda	264.3	23.3	35.1	8.9	8.1	1.4
Euphausiacea	0	0	0.4	0	0	0.3
Lucifer	43.6	0.4	0.4	0	2.9	0.5
Other nauplii	135.9	0.4	0	0	0	0
Other crustaceans	0	0	0	0.6	0.3	0
Decapod zoea	20.6	11.0	7.3	6.2	10.4	0.2
Decapod megalopa	0	0.4	0.4	0.6	1.0	0.2
Other Decapod larvae	165.6	5.2	4.0	6.9	4.9	3.2
Stomatopod larvae	0	1.7	2.3	0	0.9	0.6
Other crustacean larvae	44.0	0.9	2.6	0	2.8	1.5
Medusae	83.8	30.9	42.9	32.0	25.8	28.8
Polychaeta	126.1	2.8	12.2	3.1	1.6	6.7

TABLE 3. CONT.'D

Gastropod larvae	125.3	89.2	112.5	83.1	47.1	22.2
Heteropoda	10.1	2.4	2.3	1.0	0.5	0.5
Pteropoda	63.3	13.8	13.8	31.2	14.1	2.3
Cephalopoda	2.5	0	0	0	0	0
Bivalve larvae	141.1	16.2	10.8	8.2	2.5	3.4
Chaetognatha	185.4	49.1	32.3	17.8	15.9	21.5
Larvacea	277.4	45.2	85.9	137.9	6.9	28.3
Doliolum	0	6.4	5.9	1.0	1.8	0.5
Salpa	2.6	30.7	5.2	1.1	33.1	2.0
Echinoderm larvae	5.2	0.8	0	1.0	0	0.8
Others	0	0.4	0	0	0	0

TABLE 3. CONT.'D

TRANSECT II - NOVEMBER/DECEMBER CRUISE

Cruise	November			December		
Station	1	2	3	1	2	3
Average No./m^3	2062.6	1270.1	1230.8	4008.1	2818.6	1140.6
Copepoda	1361.6	830.8	473.0	1970.8	1158.7	644.5
Others	701.0	439.4	757.9	2037.3	1659.8	496.1
Foraminifera	2.6	18.5	11.5	1.3	50.1	58.0
Radiolaria	166.0	11.2	7.2	51.7	61.7	20.8
Cladocera						
Penilia	4.1	1.4	0.7	13.2	2.2	0
Ostracoda						
Euconchoecia	160.1	116.5	592.7	1342.4	872.1	204.9
Conchoecia	0	0	4.8	0	3.3	16.6
Mysidacea	1.8	0.8	0.1	0	1.2	0
Amphipoda	6.2	13.3	10.7	8.8	14.7	2.1
Lucifer	13.0	16.9	0.2	0.5	9.5	2.2
Other crustaceans	0	0	0.1	0	0	0
Barnacle nauplii	0	0.2	0.1	0	0	0
Other nauplii	5.0	1.1	1.0	10.5	8.4	4.0
Decapod zoea	5.5	41.8	1.5	2.2	16.4	2.3
Decapod megalopa	0.7	0	0	0	0.6	0.7
Other Decapod larvae	3.4	26.4	3.6	1.8	10.2	11.4
Stomatopod larvae	0	1.1	0.4	0	0.6	0
Other crustacean larvae	10.2	11.9	2.6	1.3	9.4	4.1
Medusae	10.7	11.3	13.8	14.9	41.8	12.5
Polychaeta	8.9	7.8	1.2	7.0	12.6	2.8

TABLE 3. CONT.'D

Gastropod larvae	30.9	32.0	15.0	32.0	69.5	20.1
Heteropoda	3.1	2.5	0.9	0	0.6	1.3
Pteropoda	23.2	16.8	9.2	2.7	6.3	3.2
Bivalve larvae	69.3	32.4	12.5	227.9	158.5	19.3
Chaetognatha	72.6	26.5	21.2	114.9	63.7	46.4
Larvacea	84.6	47.8	44.5	196.3	231.9	60.0
Doliolum	19.5	1.5	2.7	8.4	9.0	3.1
Salpa	0	0.2	0.1	0	0	0
Other urochordates	0	0	0	0	0.6	0
Echinoderm larvae	0	0	0	0	5.8	0.7

TABLE 4
PERCENTAGE COMPOSITION OF ZOOPLANKTON
MEAN OF TWO SAMPLES PER STATION

JANUARY/FEBRUARY CRUISE

Transect		I			II		
Station		1	2	3	1	2	3
Copepoda %		61.6	47.3	75.2	73.6	52.3	72.7
Others %		38.5	52.7	24.8	26.4	47.7	27.4
Percentage Composition of Zooplankton other than Copepods (100%)	Foraminifera	0	0.1	1.5	0	2.0	5.5
	Radiolaria	0.4	0.5	3.1	0.6	3.2	1.7
	Cladocera						
	Penilia	0.4	2.1	0	8.0	0.4	0
	Ostracoda						
	Euconchoecia	7.8	58.1	15.6	42.4	61.1	12.3
	Conchoecia	0	0.8	2.6	0	0.6	9.6
	Other ostracods	0	0.2	0	0	0	0
	Mysidacea	0.2	0.2	0.2	0.2	0	0
	Amphipoda	0.5	3.4	2.5	4.4	3.4	2.8
	Euphausiacea	0	0	0	0	0	3.4
	Lucifer	0	0.1	1.0	0.2	0.2	0.6
	Other crustaceans	0	0.1	0	0.2	0	0
	Barnacle nauplii	0.6	0	0.1	1.4	0	0
	Barnacle cypris	18.5	2.7	0	2.3	0.3	0.1
	Other nauplii	2.8	1.1	1.8	0.2	0.6	7.7
	Decapod zoea	0.2	0	0.1	0	0.1	0.2
	Decapod megalopa	0	0	0.3	0	0	0
	Other Decapod larvae	0	0.1	2.6	0	0.4	1.1
	Stomatopod larvae	0	0.3	0	0.2	0.1	0
	Other crustacean larvae	0	1.4	4.1	0.4	1.7	4.4
	Medusae	19.6	4.4	11.2	6.5	3.8	6.9

TABLE 4. CONT.'D

Polychaeta	4.3	0.8	0.5	1.5	0.9	0.8
Gastropod larvae	1.3	2.2	5.1	4.1	2.7	11.4
Heteropoda	0	0	0.5	0	0	0.3
Pteropoda	0	0.1	0.6	0.2	0.5	0.6
Cephalopoda	0	0	0	0	0.1	0.1
Bivalve larvae	10.7	2.8	2.2	18.3	2.2	4.9
Chaetognatha	11.6	6.9	9.3	2.9	8.4	6.4
Larvacea	19.5	9.7	32.4	6.5	6.8	17.7
Doliolum	1.6	0.4	1.4	0.6	0.5	0.8
Salpa	0.1	1.7	1.6	0	0.2	0.8
Echinoderm larvae	0	0.3	0.1	0	0.1	0.7
Others	0	0.1	0.2	0	0.2	0.1

TABLE 4. CONT.'D

Transect	III			IV		
Station	1	2	3	1	2	3
Copepoda %	58.4	75.1	83.9	75.8	46.3	64.1
Others %	41.7	24.9	16.2	24.2	53.7	36.0
Percentage Composition of Zooplankton other than Copepods (100%)						
Foraminifera	0.1	4.6	5.5	0	0.3	3.2
Radiolaria	0	3.1	3.1	0	2.4	1.4
Cladocera						
Penilia	7.5	0	0.4	16.0	0.2	0
Ostracoda						
Euconchoecia	37.1	10.4	8.0	14.2	70.2	21.3
Conchoecia	0.1	5.1	0.9	0.1	0.3	4.0
Mysidacea	0	0	0	0	0.1	0
Amphipoda	1.9	2.4	0.7	8.4	2.2	1.5
Euphausiacea	0	1.7	0.2	0	0	0
Lucifer	0.3	0.9	1.9	0	0.1	0.2
Barnacle nauplii	0.1	0.1	0	0.7	0	0.1
Barnacle cypris	0	0	0	0.4	0	0.1
Other nauplii	0.1	7.5	6.9	2.4	0.4	5.8
Decapod zoea	0.1	0.2	0.2	0	0.6	0
Decapod megalopa	0	0.3	0	0	0	0.3
Other Decapod larvae	0.3	1.2	2.5	0.4	0.7	1.2
Stomatopod larvae	0.5	0	0	0	0	0
Other crustacean larvae	0.6	2.2	1.5	0.5	0.3	2.3
Medusae	8.2	14.4	15.4	29.6	3.2	8.5
Polychaeta	0.5	1.4	0.4	0.4	0.3	1.6

TABLE 4. CONT.'D

Gastropod larvae	1.4	5.8	3.1	2.6	2.7	4.4
Heteropoda	0	0.1	0.2	0	0	0.1
Pteropoda	0	2.4	1.2	0	0.3	0.7
Cephalopoda	0	0	0	0	0	0.1
Bivalve larvae	17.7	3.6	1.8	8.0	10.1	5.0
Other mollusca	0	0	0	0	0	0.2
Chaetognatha	3.5	10.1	10.8	2.2	5.0	9.3
Larvacea	15.6	19.9	31.7	12.6	0.8	24.5
Doliolum	4.1	1.5	1.9	1.3	0.2	2.2
Salpa	0.7	0.6	0.9	0.1	0	0.5
Echinoderm larvae	0	0.9	1.0	0	0.5	1.1
Others	0.1	0.3	0.5	0.4	0	1.0

TABLE 4. CONT.'D

TRANSECT II - MARCH/APRIL CRUISE

Cruise	March			April		
Station	1	2	3	1	2	3
Copepoda %	38.4	55.5	72.2	39.1	77.6	66.0
Others %	61.6	44.6	27.9	61.0	22.4	34.1
Percentage Composition of Zooplankton other than Copepods (100%)						
Foraminifera	0.1	0.2	0.2	0	1.9	2.7
Radiolaria	0.5	1.3	1.1	0.1	0	6.3
Cladocera						
Evadne	0	0.3	0	0	0.3	0.2
Penilia	46.7	9.6	0.3	0.5	5.9	1.1
Podon	10.2	4.2	0.2	3.9	3.4	4.2
Ostracoda						
Euconchoecia	1.9	30.4	24.1	0.1	9.2	8.4
Conchoecia	0	0.1	5.9	0	0	2.0
Mysidacea	0	0	0.2	0.1	0	0
Amphipoda	0.3	4.9	8.5	0.1	6.6	4.6
Euphausiacea	0	0	0	0	0	0.1
Lucifer	0	0.7	0.7	0.1	1.4	0.1
Barnacle cypris	0.4	0.1	0.2	0	0	0
Barnacle nauplii	0	0	0	0.1	0	0
Other nauplii	0	0.1	0.5	0.1	0	0.4
Decapod zoea	0.7	0.7	0.5	0.3	8.4	0.1
Decapod megalopa	0	0.1	0.1	0	0.3	0.1
Other Decapod larvae	0.3	1.5	1.3	0.3	3.3	1.3
Stomatopod larvae	0.3	0.5	0.7	0	0.9	0
Other crustacean larvae	0.1	0.1	0.3	0	0.4	1.3

TABLE 4. CONT.'D

Medusae	0.3	1.9	2.9	0.1	3.6	6.5
Polychaeta	0.5	2.2	0.7	0.1	0.3	0.7
Gastropod larvae	20.3	3.7	6.4	0.1	10.0	7.3
Heteropoda	0	0.1	0.2	0	0.8	0.4
Pteropoda	0.4	3.1	5.7	0.2	7.5	3.2
Bivalve larvae	7.5	3.6	1.7	85.9	13.4	36.5
Chaetognatha	0.3	9.9	11.0	1.9	14.1	4.0
Larvacea	8.0	20.0	25.7	6.3	7.0	7.9
Doliolum	0.7	1.1	0.9	0.2	1.7	0.5
Salpa	0.9	0.1	0	0	0.1	0.2
Echinoderm larvae	0	0	0	0.1	0	0.2
Others	0.1	0	0.2	0	0	0.2

TABLE 4. CONT.'D

MAY/JUNE CRUISE

Transect		I			II		
Station		1	2	3	1	2	3
Copepoda %		46.0	36.1	71.1	52.2	50.6	71.8
Others %		54.1	64.0	29.0	47.9	49.5	28.3
Percentage Composition of Zooplankton other than Copepods (100%)	Foraminifera	0.8	0.4	4.7	4.4	0.4	1.1
	Radiolaria	0	0.2	8.5	18.6	0.6	9.3
	Cladocera						
	Evadne	0	0	0.3	0	0	0.4
	Penilia	0	0	0	0	0.3	0
	Podon	0.2	0	6.0	0.1	0	11.5
	Ostracoda						
	Euconchoecia	2.1	41.0	0.4	0.8	49.5	3.5
	Conchoecia	0	0.1	4.5	0	0	2.7
	Mysidacea	0	0.2	0.1	0	0	0
	Amphipoda	3.9	4.6	2.1	1.6	5.2	2.9
	Euphausiacea	0	0	0.1	0	0	0
	Lucifer	0.8	0.7	1.0	0.7	1.0	1.7
	Other crustaceans	0	0	0.7	0	0	0
	Barnacle nauplii	0	0	0.2	0	0	0.7
	Barnacle cypris	0.1	0.3	0	0	0.1	0
	Other nauplii	0.7	0.2	0.7	0	0.5	2.0
	Decapod zoea	4.4	1.7	4.8	2.4	1.1	1.8
	Decapod megalopa	0.4	0.2	0.1	0.1	0.1	0
	Other Decapod larvae	2.0	1.2	1.2	0.5	1.5	2.0
	Stomatopod larvae	0.2	0.2	0.8	0.1	0.2	0.4
	Other crustacean larvae	0	0.8	0.9	0.2	0.6	1.0
	Medusae	0.6	2.0	6.7	1.3	2.5	4.8

TABLE 4. CONT.'D

Polychaeta	0.5	0.2	2.7	0.3	0.4	2.0
Gastropod larvae	18.3	30.2	13.0	5.6	7.5	7.0
Heteropoda	0.1	0.2	1.3	0.1	0.1	0.9
Pteropoda	36.3	8.7	5.6	34.1	10.8	11.3
Bivalve larvae	6.9	2.6	2.2	1.8	1.7	2.1
Chaetognatha	21.3	3.4	11.4	16.7	8.2	22.9
Larvacea	1.1	0.7	15.5	10.3	6.8	5.4
Doliolum	0.1	0.3	1.4	0.2	0.7	1.1
Salpa	0.5	0.8	1.4	0.9	0.9	2.0
Echinoderm larvae	0	0	1.8	0.1	0	0.1
Others	0	0	0.5	0	0.1	0

TABLE 4. CONT.'D

Transect		III			IV		
Station		1	2	3	1	2	3
Copepods %		30.6	55.5	67.6	68.5	72.6	65.6
Others %		69.5	44.6	32.4	31.5	27.5	34.5
Percentage Composition of Zooplankton other than Copepods (100%)	Foraminifera	0.7	0.9	2.4	0.6	0.6	0.8
	Radiolaria	1.2	4.6	2.1	0.8	1.8	10.2
	Cladocera						
	Evadne	0	0.2	0	0.1	0.2	2.0
	Penilia	0.1	0.3	0	2.3	0	0
	Podon	0.1	0.6	1.9	0	1.3	2.8
	Ostracoda						
	Euconchoecia	62.3	10.9	4.0	8.6	7.1	2.9
	Conchoecia	0	0	1.3	0	0.7	2.4
	Mysidacea	0	0.1	0	0	0	0
	Amphipoda	4.3	2.3	1.2	1.7	5.9	5.6
	Euphausiacea	0	0	0	0	0.1	0
	Lucifer	3.2	1.5	0	3.3	2.0	0.4
	Other crustaceans	0	0	0	0	0	0.1
	Barnacle nauplii	0	0	0	0	0.2	0
	Barnacle cypris	0	0.4	0.3	0	0.5	0.1
	Other nauplii	0.2	0.3	0.4	0	0	1.9
	Decapod zoea	1.0	0.7	1.2	1.9	5.3	2.5
	Decapod megalopa	0.1	0.3	0.1	0.4	0.3	0.3
	Other Decapod larvae	1.0	1.7	1.4	5.7	1.4	3.6
	Stomatopod larvae	0.2	1.3	0.7	0.2	1.9	1.2
	Other crustacean larvae	0.1	0.3	0.6	0.8	1.4	1.5

TABLE 4. CONT.'D

Medusae	0.5	9.8	4.3	1.9	4.6	10.0
Polychaeta	0.3	0.5	1.0	0.8	0.7	1.3
Gastropod larvae	4.5	3.9	6.7	14.6	12.6	3.8
Heteropoda	0.1	0.1	0.2	0.4	1.4	0.2
Pteropoda	8.7	15.9	45.6	9.2	18.1	10.1
Bivalve larvae	0.4	0.7	3.2	1.4	1.6	2.0
Cephalopoda	0	0	0	0	0.1	0
Chaetognatha	9.0	20.6	14.1	42.7	20.9	18.9
Larvacea	2.2	15.0	2.7	3.1	4.9	8.9
Doliolum	0.1	3.9	1.4	0.1	2.1	1.1
Salpa	0.3	1.5	1.3	0	0.3	0.8
Other urochordates	0	2.6	2.4	0	2.7	0.9
Echinoderm larvae	0.1	0	0	0	0	0.8
Others	0	0.1	0	0.2	0	3.2

TABLE 4. CONT.'D

TRANSECT II - JULY/AUGUST CRUISE

Percentage Composition of Zooplankton other than Copepods (100%)

Cruise	July			August		
Station	1	2	3	1	2	3
Copepoda %	45.0	42.5	52.6	4.2	50.9	59.1
Others %	55.0	57.6	47.4	95.9	49.2	40.9
Foraminifera	0.5	1.0	2.9	0	4.6	4.9
Radiolaria	0.1	0.4	13.3	0.1	1.3	0.8
Cladocera						
Penilia	53.4	0.3	0.1	87.9	3.8	1.3
Podon	1.0	0.3	0.3	0.8	7.9	1.8
Ostracoda						
Euconchoecia	9.7	67.9	0.7	0	2.3	32.1
Conchoecia	0	0	4.9	0	0	5.0
Mysidacea	0	0	0	0	0	0.1
Amphipoda	0.9	3.6	1.5	0.1	0.9	4.9
Lucifer	1.9	1.2	0.8	0.1	2.1	1.3
Other crustaceans	0	0	0.1	0	0	0
Barnacle nauplii	0.1	0.1	0.1	0	0.1	0
Barnacle cypris	0	0	0.1	0	0	0
Other nauplii	0.4	0	0.1	0.1	0.1	0
Decapod zoea	2.4	0.7	0.2	0.1	5.0	1.3
Decapod megalopa	0.1	0	0.2	0	0.1	0.2
Other Decapod larvae	2.9	0.6	0.8	0.3	1.3	2.7
Stomatopod larvae	0.3	0.3	1.2	0	0.5	0
Other crustacean larvae	1.2	0.2	0.9	0.2	0.7	0.2
Medusae	2.9	2.4	5.5	0.2	7.7	3.4
Polychaeta	0.4	0.3	1.7	0	0.6	0.8

TABLE 4. CONT.'D

Gastropod larvae	3.9	5.1	19.8	4.3	34.1	6.9
Heteropoda	0.2	0.3	1.8	0.1	0.5	0.5
Pteropoda	3.2	1.6	1.5	1.8	11.1	2.3
Cephalopoda	0	0	0.1	0	0	0
Bivalve larvae	7.2	0.7	1.1	3.1	1.3	2.2
Chaetognatha	5.5	11.3	20.2	0.7	11.0	4.1
Larvacea	2.4	0.7	17.1	0.3	2.3	5.3
Doliolum	0.1	0.4	0.6	0	0.4	7.0
Salpa	0.1	1.0	2.3	0	0.8	11.0
Echinoderm larvae	0.1	0.3	0.9	0	0	0.2
Others	0	0	0	0	0	0.1

TABLE 4. CONT.'D

SEPTEMBER CRUISE

Transect		I			II		
Station		1	2	3	1	2	3
Copepoda %		53.6	34.5	67.4	18.8	74.4	66.1
Others %		46.5	65.6	32.6	81.3	25.6	34.0
Percentage Composition of Zooplankton other than Copepods (100%)	Foraminifera	0	0.5	1.2	0.1	1.5	4.6
	Radiolaria	0	0.5	6.0	0	2.5	4.3
	Cladocera						
	Penilia	6.2	14.7	0.2	69.0	1.1	3.8
	Podon	17.2	7.2	1.9	3.5	3.7	2.6
	Ostracoda						
	Euconchoecia	0	8.4	0	0	3.4	22.9
	Conchoecia	0	0	1.7	0	0	2.1
	Mysidacea	0.4	0.3	0	0	0	0.1
	Amphipoda	9.1	2.3	0.6	0.2	3.1	4.5
	Euphausiacea	0	0	0.1	0	0	0.1
	Lucifer	1.5	0.9	0.3	0.1	2.1	0.3
	Other crustaceans	0.5	0.6	0.1	0	0	0
	Barnacle nauplii	0.2	0	0	0	0	0.1
	Barnacle cypris	0	0	0	0	0	0.1
	Other nauplii	1.0	0.5	0.3	0.1	0.1	0.1
	Decapod zoea	2.1	3.2	0.2	0.5	5.8	0.5
	Decapod megalopa	0.2	0.1	0	0	0.3	0.1
	Other Decapod larvae	4.8	3.5	1.2	0.7	2.9	2.7
	Stomatopod larvae	0.1	0	0.4	0.1	0.1	0.1
	Other crustacean larvae	2.5	0.2	1.0	0.1	0.5	0.2

TABLE 4. CONT.'D

Medusae	3.7	2.4	11.0	0.1	18.0	11.0
Polychaeta	0.4	0.6	20.2	0.2	0.6	1.0
Gastropod larvae	5.7	14.1	32.1	3.1	13.4	6.2
Heteropoda	0.1	0.6	0.1	0.1	0.5	0.2
Pteropoda	1.9	5.8	0.8	6.1	3.8	2.4
Bivalve larvae	17.9	18.5	1.4	15.1	0.9	0.2
Chaetognatha	10.4	7.5	11.7	0.7	12.0	8.1
Larvacea	1.5	2.7	6.4	0.1	8.2	18.5
Doliolum	2.6	3.6	0.6	0.4	3.5	1.2
Salpa	8.6	1.1	0.8	0.2	10.7	1.9
Other urochordates	0	0.2	0	0	0	0.3
Echinoderm larvae	1.5	0.4	0	0.1	1.8	0.2
Others	0.5	0.1	0	0	0	0

TABLE 4. CONT.'D

Transect		III			IV		
Station		1	2	3	1	2	3
Copepoda %		52.8	65.9	62.1	74.7	67.9	62.4
Others %		47.2	34.1	37.9	25.3	32.2	37.6
Percentage Composition of Zooplankton other than Copepods (100%)	Foraminifera	0.4	2.3	2.5	1.6	5.5	8.6
	Radiolaria	0.1	0.9	3.1	0	0.7	36.6
	Cladocera						
	Penilia	49.2	9.0	0.4	0	0	0.2
	Podon	4.6	14.7	3.9	1.0	6.2	0
	Ostracoda						
	Euconchoecia	0	13.5	40.9	10.1	2.3	0.6
	Conchoecia	0	0.1	0.3	0	0.2	2.8
	Mysidacea	0.1	0	0	0	0	0
	Amphipoda	7.1	4.1	4.3	2.3	4.0	0.6
	Euphausiacea	0	0	0.1	0	0	0.2
	Lucifer	1.2	0.1	0.1	0	1.4	0.2
	Other nauplii	3.7	0.1	0	0	0	0
	Other crustaceans	0	0	0	0.2	0.2	0
	Decapod zoea	0.6	2.1	0.9	1.6	4.9	0.1
	Decapod megalopa	0	0.1	0.1	0.2	0.5	0.1
	Other Decapod larvae	4.5	0.9	0.5	1.8	2.4	1.3
	Stomatopod larvae	0	0.4	0.3	0	0.4	0.3
	Other crustacean larvae	1.2	0.2	0.4	0	1.3	0.7
	Medusae	2.3	5.4	5.8	8.2	12.4	11.9
	Polychaeta	3.5	0.5	1.5	0.8	0.8	2.7

TABLE 4. CONT.'D

Gastropod larvae	3.4	16.3	14.7	21.5	22.5	9.3
Heteropoda	0.3	0.4	0.3	0.3	0.2	0.2
Pteropoda	1.7	2.6	1.8	8.1	6.8	1.0
Cephalopoda	0.1	0	0	0	0	0
Bivalve larvae	3.8	3.0	1.4	2.1	1.2	1.5
Chaetognatha	5.0	8.7	4.3	4.6	6.5	8.9
Larvacea	7.5	8.5	11.4	35.2	3.3	11.5
Doliolum	0	1.1	0.8	0.3	0.9	0.2
Salpa	0.1	5.5	0.8	0.3	15.9	0.8
Echinoderm larvae	0.2	0.2	0	0.3	0	0.3
Others	0	0.1	0	0	0	0

TABLE 4. CONT.'D

TRANSECT II - NOVEMBER/DECEMBER CRUISE

Cruise	November			December		
Station	1	2	3	1	2	3
Copepoda %	66.4	65.3	39.4	50.1	41.5	55.6
Others %	33.7	34.7	60.6	50.0	58.6	44.4
Percentage Composition of Zooplankton other than Copepods (100%)						
Foraminifera	0.3	4.2	1.7	0.1	2.9	11.8
Radiolaria	21.4	2.8	1.3	4.2	3.5	3.9
Cladocera						
Penilia	0.5	0.3	0.1	0.7	0.2	0
Ostracoda						
Euconchoecia	24.7	26.3	75.8	62.8	53.1	41.7
Conchoecia	0	0	0.8	0	0.3	3.3
Mysidacea	0.4	0.2	0	0	0.1	0
Amphipoda	1.0	3.0	1.4	0.4	0.9	0.4
Lucifer	2.1	3.6	0.1	0.1	0.6	0.5
Barnacle nauplii	0	0.1	0	0	0	0
Other nauplii	0.7	0.3	0.2	0.6	0.5	0.9
Decapod zoea	0.9	8.8	0.2	0.2	1.1	0.5
Decapod megalopa	0.1	0	0	0	0.1	0.2
Other Decapod larvae	0.6	6.7	0.5	0.1	0.6	2.4
Stomatopod larvae	0	0.2	0.1	0	0.1	0
Other crustacean larvae	1.3	2.5	0.4	0.1	0.7	0.8
Medusae	1.5	2.5	2.0	1.0	2.5	2.5
Polychaeta	1.2	2.0	0.3	0.4	0.7	0.6
Gastropod larvae	4.6	7.5	1.8	1.4	4.3	4.2
Heteropoda	0.5	0.6	0.1	0	0.1	0.3

TABLE 4. CONT.'D

Pteropoda	3.1	3.6	1.2	0.1	0.4	0.7
Bivalve larvae	11.0	7.9	1.8	8.4	9.5	3.8
Chaetognatha	10.5	5.9	3.2	6.9	4.0	9.4
Larvacea	11.4	10.8	7.0	12.4	13.7	11.9
Doliolum	2.7	0.4	0.5	0.6	0.5	0.7
Salpa	0	0.1	0	0	0	0
Other urochordates	0	0	0	0	0.1	0
Echinoderm larvae	0	0	0	0	0.4	0.2

TABLE 5
NUMERICAL ABUNDANCE OF COPEPODS
MEAN OF TWO SAMPLES PER STATION
JANUARY/FEBRUARY CRUISE

Transect	I			II		
Station	1	2	3	1	2	3
No. of Copepods Per M^3	459.8	637.5	714.6	1443.1	717.5	655.4
Calanoida	394.7	482.8	583.2	1309.2	470.1	490.2
Adult Females	199.5	248.2	232.8	818.5	206.1	150.1
Adult Males	42.4	46.7	62.6	61.2	41.4	46.2
Immature	152.9	188.1	287.8	429.5	222.7	293.9
Cyclopoida	45.3	143.2	130.8	124.2	238.0	163.8
Adult Females	31.4	75.4	93.8	45.5	131.5	93.0
Adult Males	9.2	44.2	19.1	43.6	68.2	40.9
Immature	4.7	23.7	18.0	35.2	38.4	29.9
Harpacticoida	19.8	11.6	0.6	9.7	9.4	1.4
Adult Famales	0.2	1.9	0.2	0	4.3	1.1
Adult Males	0.5	0	0	1.8	0	0
Immature	0	0.7	0	0	0	0.2
Benthic	19.0	8.9	0.4	7.9	5.1	0.2

TABLE 5. CONT.'D

Transect	III			IV		
Station	1	2	3	1	2	3
No. of Copepods Per M^3	857.4	494.4	713.3	3042.7	746.0	368.0
Calanoida	668.7	360.7	629.3	2777.6	617.3	257.2
Adult Females	431.9	100.5	246.0	1713.1	277.8	67.4
Adult Males	50.6	31.5	78.3	251.2	58.7	19.4
Immature	186.2	228.9	305.1	813.4	280.8	170.4
Cyclopoida	175.7	132.2	83.5	255.0	108.9	109.4
Adult Females	62.6	74.1	50.2	47.7	48.9	60.1
Adult Males	84.0	32.4	18.0	89.1	38.0	24.1
Immature	29.2	25.8	15.3	118.3	22.1	25.2
Harpacticoida	13.0	1.5	0.6	10.2	19.9	1.6
Adult Females	2.6	0.6	0.3	3.4	11.9	1.0
Adult Males	1.1	0.6	0	0	7.4	0.2
Immature	0	0	0	0	0.6	0.1
Benthic	9.3	0.4	0.3	6.8	0	0.4

TABLE 5. CONT.'D

TRANSECT II - MARCH/APRIL CRUISE

Cruise	March			April		
Station	1	2	3	1	2	3
No. of Copepods Per M^3	1435.5	516.6	690.4	2045.0	884.1	485.4
Calanoida	1283.0	383.4	523.3	1923.4	808.2	345.6
Adult Females	1029.8	220.7	228.4	1742.7	480.2	171.2
Adult Males	100.2	38.6	62.4	84.1	84.7	21.1
Immature	153.3	124.2	232.6	96.6	243.3	153.5
Cyclopoida	150.3	131.0	165.5	120.8	74.5	137.6
Adult Females	42.1	76.1	110.6	25.5	40.8	104.8
Adult Males	88.2	37.2	27.3	84.4	11.8	18.3
Immature	20.1	17.7	27.6	11.1	22.0	14.6
Harpacticoida	2.0	2.2	1.7	1.0	1.5	2.1
Adult Females	1.0	0.6	1.4	0	0.9	1.4
Adult Males	0	0.6	0	0	0.3	0.7
Immature	0	0	0	0	0.3	0
Benthic	1.0	1.1	0.3	1.0	0	0

TABLE 5. CONT.'D

MAY/JUNE CRUISE

Transect	I			II		
Station	1	2	3	1	2	3
No. of Copepods Per M^3	925.4	1829.6	419.9	978.7	1822.4	340.9
Calanoida	811.5	1411.1	236.7	814.4	1304.3	234.3
Adult Females	323.3	638.9	101.2	330.4	583.7	105.3
Adult Males	110.3	245.4	22.1	201.6	239.6	36.7
Immature	378.0	526.8	113.4	282.5	481.1	92.4
Cyclopoida	112.1	411.4	172.3	159.5	516.3	90.7
Adult Females	45.1	171.3	128.1	92.6	210.7	60.1
Adult Males	53.4	222.1	22.3	51.1	289.2	16.8
Immature	13.6	18.1	21.9	15.8	16.5	13.8
Harpacticoida	1.9	7.1	10.9	4.9	1.8	15.9
Adult Females	0.4	4.8	9.4	2.0	0.9	13.3
Adult Males	0	0.8	1.2	2.9	0	2.0
Immature	0	0	0.3	0	0	0.7
Benthic	1.5	1.6	0	0.0	1.0	0.0

TABLE 5. CONT.'D

Transect	III			IV		
Station	1	2	3	1	2	3
No. of Copepods Per M^3	744.5	1252.0	889.5	1466.0	682.3	342.1
Calanoida	499.1	730.2	530.4	960.1	396.4	183.8
Adult Females	221.9	355.8	255.3	670.8	280.1	80.2
Adult Males	75.0	90.6	79.5	69.1	32.6	14.0
Immature	201.3	283.8	195.7	220.3	83.8	89.6
Cyclopoida	235.9	506.7	347.2	469.8	276.5	146.7
Adult Females	72.4	276.5	269.2	172.3	214.9	105.7
Adult Males	130.8	194.9	66.4	234.6	54.0	21.1
Immature	32.8	35.3	11.6	62.9	7.6	19.9
Harpacticoida	9.5	15.2	11.9	36.2	9.4	11.7
Adult Females	5.0	12.9	10.0	32.4	7.5	10.3
Adult Males	3.1	1.9	2.0	0.7	1.7	1.5
Immature	0.4	0.5	0	3.2	0	0
Benthic	1.2	0	0	0	0.3	0

TABLE 5. CONT.'D

TRANSECT II - JULY AUGUST CRUISE

Cruise	July			August		
Station	1	2	3	1	2	3
No. of Copepods Per M^3	1118.2	652.0	216.4	484.6	338.8	454.4
Calanoida	929.1	414.1	94.9	299.8	212.1	295.5
Adult Females	418.4	199.6	35.8	145.7	133.4	147.1
Adult Males	90.2	49.7	5.2	17.2	16.8	42.3
Immature	420.6	165.0	53.9	136.9	61.9	106.2
Cyclopoida	188.4	236.4	110.7	182.1	126.0	156.9
Adult Females	145.7	183.9	90.7	56.5	88.9	124.3
Adult Males	35.3	42.6	10.4	106.2	19.5	16.2
Immature	7.6	9.9	9.6	19.4	17.6	16.5
Harpacticoida	0.7	1.6	10.8	2.8	0.8	1.9
Adult Females	0.5	1.6	7.6	0	0.5	1.2
Adult Males	0.3	0	2.6	1.2	0.4	0.7
Immature	0	0	0.6	0	0	0
Benthic	0	0	0	1.7	0	0

TABLE 5. CONT.'D

SEPTEMBER CRUISE

Transect	I			II		
Station	1	2	3	1	2	3
No. of Copepods Per M^3	483.2	686.7	565.3	694.5	241.9	624.6
Calanoida	437.2	484.8	370.6	588.7	154.5	370.3
Adult Females	164.3	165.8	204.0	285.1	67.8	212.3
Adult Males	98.4	49.0	54.3	168.3	45.3	23.0
Immature	174.6	270.0	112.3	135.3	41.5	135.0
Cyclopoida	43.3	198.1	192.8	105.9	87.2	253.3
Adult Females	16.2	124.8	158.7	22.3	75.7	185.7
Adult Males	18.7	48.9	14.2	69.5	5.1	36.1
Immature	8.5	24.5	20.1	14.1	6.5	31.5
Harpacticoida	2.7	3.9	1.9	0	0.2	1.2
Adult Famales	1.2	1.3	1.6	0	0.1	0.5
Adult Males	0.8	0.4	0.2	0	0.1	0.7
Immature	0	0	0.2	0	0	0
Benthic	0.7	2.2	0	0	0	0

TABLE 5. CONT.'D

Transect	III			IV		
Station	1	2	3	1	2	3
No. of Copepods Per M^3	4156.8	1054.6	1272.9	1175.5	451.2	399.9
Calanoida	3341.4	729.3	664.3	797.2	339.2	191.8
Adult Females	1538.9	481.9	445.2	462.9	233.5	120.2
Adult Males	463.3	68.7	37.9	20.1	23.2	5.5
Immature	1339.2	178.7	181.3	314.3	82.5	66.1
Cyclopoida	701.1	324.6	607.7	378.4	112.0	206.7
Adult females	361.2	286.1	532.6	338.6	93.8	181.9
Adult Males	40.7	23.8	48.5	24.8	10.1	9.3
Immature	299.4	14.7	26.7	15.0	8.1	15.6
Harpacticoida	114.3	0.8	0.9	0	0	1.4
Adult Females	2.6	0.8	0.5	0	0	1.2
Adult Males	2.5	0	0	0	0	0.2
Benthic	109.2	0	0.5	0	0	0

TABLE 5. CONT.'D

TRANSECT II - NOVEMBER/DECEMBER CRUISE

Cruise	November			December		
Station	1	2	3	1	2	3
No. of Copepods Per M^3	1361.6	830.8	473.0	1970.8	1158.7	644.5
Calanoida	1000.1	632.5	362.7	1550.2	880.9	460.9
Adult Females	305.0	262.9	221.5	767.5	401.7	218.8
Adult Males	123.4	77.9	27.4	174.5	79.0	49.0
Immature	571.8	291.8	113.7	608.2	400.3	193.2
Cyclopoida	355.4	189.0	108.6	409.2	260.0	180.0
Adult Females	159.6	125.6	85.2	109.2	149.4	121.5
Adult Males	165.9	31.9	14.3	187.9	49.6	30.7
Immature	30.1	31.6	9.2	112.2	61.0	27.9
Harpacticoida	6.1	9.3	1.7	11.4	17.9	3.6
Adult Females	0.5	5.6	1.3	1.4	13.9	2.3
Adult Males	2.6	2.5	0.4	1.8	2.2	1.0
Immature	1.8	0.4	0	0.5	0.6	0.3
Benthic	1.4	0.8	0	7.9	1.2	0

TABLE 6
PERCENTAGE COMPOSITION OF COPEPODS
MEAN OF TWO SAMPLES PER STATION
JANUARY/FEBRUARY CRUISE

Transect	Station	PERCENTAGE COMPOSITION								
		Copepoda 100%			Calanoida 100%			Cyclopoida 100%		
		Calanoida	Cyclopoida	Harpacticoida	Adult Females	Adult Males	Immature	Adult Females	Adult Males	Immature
I	1	86.1	9.6	4.5	50.8	10.9	38.4	68.3	20.9	10.9
	2	75.1	23.0	2.0	50.3	9.3	40.5	50.1	30.4	19.5
	3	80.7	19.3	0.1	39.2	10.4	50.5	71.4	15.8	12.9
II	1	90.1	9.2	0.7	61.3	5.0	33.7	36.3	35.3	28.5
	2	65.4	33.3	1.3	43.4	9.0	47.7	56.1	28.7	15.3
	3	75.0	24.8	0.2	30.7	9.6	59.7	57.5	24.7	17.8
III	1	76.4	22.1	1.6	65.7	7.9	26.5	35.6	47.9	16.6
	2	73.1	26.7	0.3	27.8	8.8	63.5	56.1	24.9	19.2
	3	88.2	11.7	0.1	38.9	12.4	48.8	60.2	21.5	18.3
IV	1	90.2	9.6	0.3	60.6	9.3	30.1	20.4	36.6	43.2
	2	82.3	14.8	3.0	45.2	9.2	45.7	45.3	34.6	20.2
	3	69.5	30.1	0.5	26.8	7.4	65.9	55.7	21.6	22.7

TABLE 6. CONT.'D

TRANSECT II

MARCH/APRIL CRUISE

Cruise	Station	PERCENTAGE OF COPEPODS								
		Copepoda 100%			Calanoida 100%			Cyclopoida 100%		
		Calanoida	Cyclopoida	Harpacticoida	Adult Females	Adult Males	Immature	Adult Females	Adult Males	Immature
March	1	89.4	10.5	0.1	80.1	7.8	12.2	28.0	58.8	13.3
	2	80.3	19.4	0.4	63.7	8.9	27.5	59.3	26.4	14.4
	3	75.8	24.0	0.3	43.6	12.0	44.5	66.9	16.5	16.7
April	1	91.3	8.6	0.2	86.6	4.9	8.6	20.1	70.9	9.2
	2	91.6	8.3	0.2	59.4	10.5	30.1	53.2	14.5	32.3
	3	71.2	28.5	0.5	49.5	6.1	44.4	76.1	13.4	10.6

TABLE 6. CONT.'D

MAY/JUNE CRUISE

Transect	Station	PERCENTAGE COMPOSITION								
		Copepoda 100%			Calanoida 100%			Cyclopoida 100%		
		Calanoida	Cyclopoida	Harpacticoida	Adult Females	Adult Males	Immature	Adult Females	Adult Males	Immature
I	1	88.4	11.5	0.2	40.1	13.0	47.0	37.8	47.7	14.5
	2	77.1	22.5	0.4	45.3	17.4	37.3	41.7	54.0	4.4
	3	56.2	41.3	2.6	42.8	9.3	48.0	74.3	12.9	12.7
II	1	83.2	16.3	0.6	40.9	25.5	33.8	58.9	31.1	10.0
	2	71.5	28.4	0.1	45.1	18.6	36.4	40.8	56.1	3.2
	3	68.8	26.6	4.7	44.9	15.7	39.5	66.2	18.7	15.3
III	1	67.5	31.1	1.5	44.8	15.1	40.1	29.8	55.4	14.8
	2	59.3	39.6	1.2	48.8	12.5	38.8	52.2	40.8	7.1
	3	59.4	39.5	1.2	48.3	14.4	37.4	77.5	19.2	3.4
IV	1	61.1	35.8	3.1	64.2	8.1	27.7	36.9	49.8	13.4
	2	57.9	40.7	1.4	70.6	8.2	21.3	77.6	19.7	2.8
	3	53.9	42.5	3.6	43.7	7.4	49.0	71.9	14.0	14.2

TABLE 6. CONT.'D

TRANSECT II - JULY/AUGUST CRUISE

Cruise	Station	PERCENTAGE OF COPEPODS								
		Copepoda 100%			Calanoida 100%			Cyclopoida 100%		
		Calanoida	Cyclopoida	Harpacticoida	Adult Females	Adult Males	Immature	Adult Females	Adult Males	Immature
July	1	81.2	18.7	0.1	41.1	10.5	48.5	76.3	19.9	3.9
	2	60.1	39.7	0.3	51.9	12.2	36.0	78.2	17.6	4.2
	3	43.9	51.2	5.0	38.0	5.5	56.6	81.7	9.6	8.7
August	1	63.1	36.3	0.8	48.2	5.5	46.4	30.4	55.9	13.8
	2	63.0	36.8	0.3	62.8	7.9	29.3	71.5	15.1	13.5
	3	64.8	34.8	0.5	49.5	14.3	36.3	79.3	10.3	10.5

TABLE 6. CONT.'D
SEPTEMBER CRUISE

Transect	Station	PERCENTAGE OF COPEPODS								
		Copepoda 100%			Calanoida 100%			Cyclopoida 100%		
		Calanoida	Cyclopoida	Harpacticoida	Adult Females	Adult Males	Immature	Adult Females	Adult Males	Immature
I	1	90.6	8.9	0.6	37.5	22.5	40.0	36.8	44.3	19.0
	2	65.2	34.5	0.4	35.4	9.4	55.2	63.9	23.9	12.3
	3	64.5	35.2	0.4	57.0	12.0	31.0	82.2	7.4	10.4
II	1	85.0	15.1	0	48.5	28.8	22.8	22.4	65.5	12.2
	2	63.5	36.5	0.1	47.0	24.7	28.3	87.1	5.8	7.2
	3	59.3	40.5	0.2	57.3	6.2	36.5	73.4	14.0	12.7
III	1	80.4	17.0	2.7	45.9	13.8	40.4	50.7	6.5	42.8
	2	68.8	31.2	0.1	65.7	9.8	24.6	88.2	7.2	4.6
	3	52.0	48.0	0.1	66.9	5.8	27.4	87.9	7.8	4.5
IV	1	66.8	33.3	0	58.3	2.9	38.9	89.5	6.6	3.9
	2	75.3	24.8	0	70.0	7.2	22.8	83.6	9.0	7.5
	3	48.1	51.7	0.4	62.7	3.0	34.5	88.0	4.5	7.6

TABLE 6. CONT.'D

TRANSECT II - NOVEMBER/DECEMBER CRUISE

Cruise	Station	PERCENTAGE OF COPEPODS								
		Copepoda 100%			Calanoida 100%			Cyclopoida 100%		
		Calanoida	Cyclopoida	Harpacticoida	Adult Females	Adult Males	Immature	Adult Females	Adult Males	Immature
November	1	73.2	26.4	0.5	29.1	12.6	58.3	44.9	46.8	8.4
	2	76.1	22.9	1.1	41.2	12.7	46.1	65.4	17.3	17.3
	3	75.5	24.2	0.4	60.6	7.7	31.8	78.5	12.9	8.7
December	1	74.6	24.9	0.5	52.1	12.7	35.3	27.8	45.3	27.1
	2	76.3	22.3	1.4	45.3	8.7	46.0	58.1	18.9	23.1
	3	70.9	28.5	0.6	47.2	10.5	42.4	67.4	16.6	16.1

TABLE 7
LIST OF COPEPOD SPECIES FOUND

Order CALANOIDA

Family Calanidae

1. *Calanus tenuicornis* Dana, 1849
2. *Nannocalanus minor* (Claus, 1863)
3. *Neocalanus gracilis* (Dana, 1849)
4. *Neocalanus robustior* (Giesbrecht, 1888)
5. *Undinula vulgaris* (Dana, 1849)

Family Eucalanidae

6. *Eucalanus hyalinus* Claus, 1866
7. *E. monachus* Giesbrecht, 1888
8. *E. pileatus* Giesbrecht, 1888
9. *E. sewelli* Fleminger
10. *E. subtenuis* Giesbrecht, 1892
11. *Rhincalanus cornutus* Dana, 1852
12. *Mecynocera clausii* I. C. Thompson, 1888

Family Paracalanidae

13. *Acrocalanus andersoni* Bowman, 1958
14. *A. longicornis* Giesbrecht, 1888
15. *Paracalanus aculeatus* Giesbrecht, 1888
16. *P. crassirostris* F. Dahl, 1894
17. *P. denudatus* Sewell, 1929
18. *P. indicus* (Wolfenden, 1905)
19. *P. quasimodo* Bowman, 1971
20. *P. nudus* Sewell, 1929
21. *Calocalanus elegans* Shmeleva, 1965
22. *C. pavo* Dana, 1849
23. *C. pavoninus* Farran, 1936
24. *C. styliremis* Giesbrecht, 1888
25. *C.* sp. 1
26. *C.* sp. 2
27. *C.* sp. 3
28. *C.* sp. 4
29. *Ischnocalanus plumulosus* (Claus, 1863)

Family Pseudocalanidae

30. *Clausocalanus arcuicornis* (Dana, 1849)
31. *C. furcatus* (Brady, 1883)
32. *C. jobei* Frost & Fleminger, 1968
33. *C. mastigophorus* (Claus, 1863)
34. *C. parapergens* Frost & Fleminger, 1968

TABLE 7. CONT.'D

35. *C. paululus* Farran, 1926
36. *C. pergens* Farran, 1926
37. *Ctenocalanus vanus* Giesbrecht, 1888

Family Aetideidae

38. *Aetideus acutus* Farran, 1929
39. *A. giesbrechti* Cleve, 1904
40. *Bradyidius arnoldi* Fleminger 1956
41. *Euchirella pulchra* (Lubbock, 1856)
42. *E. rostrata* (Claus, 1866)
43. *Gaetanus minor* Farran, 1905
44. *Paivella inaciae* Vervoort, 1965
45. *Undeuchaeta plumosa* (Lubbock, 1856)

Family Euchaetidae

46. *Euchaeta marina* (Prestandrea, 1833)
47. *E. media* Giesbrecht, 1888
48. *E. paraconcinna* Fleminger, 1957
49. *E. pubera* Sars, 1907

Family Phaennidae

50. *Phaenna spinifera* Claus, 1963
51. *Xanthocalanus agilis* Giesbrecht, 1892

Family Scolecithricidae

52. *Scaphocalanus brevirostris* Park, 1970
53. *S. subcurtus* Park, 1970
54. *Scolecithricella ctenopus* (Giesbrecht, 1888)
55. *S. dentata* (Giesbrecht, 1888)
56. *S. tenuiserrata* (Giesbrecht, 1892)
57. *S.* sp. 1
58. *Scolecithrix bradyi* Giesbrecht, 1888
59. *S. danae* (Lubbock, 1856)

Family Tharybidae

60. *Parundinella spinodenticula* Fleminger, 1957

Family Stephidae

61. *Stephos deichmannae* Fleminger, 1957

Family Temoridae

62. *Temora stylifera* (Dana, 1849)

TABLE 7. CONT.'D

63. *Temora turbinata* (Dana, 1849)
64. *Temoropia mayumbaensis* T. Scott, 1894

Family Metridiidae

65. *Pleuromamma abdominalis* (Lubbock, 1856)
66. *P. edentata* Steuer, 1931
67. *P. gracilis* (Claus, 1863)
68. *P. piseki* Farran, 1929
69. *P. xiphias* (Giesbrecht, 1889)

Family Centropagidae

70. *Centropages caribbeanensis* Park, 1970
71. *C. hamatus* (Lilljeborg, 1853)
72. *C. velificatus* De Oliveira, 1947

Family Pseudodiaptomidae

73. *Pseudodiaptomus* sp. 1
74. *P.* sp. 2

Family Lucicutiidae

75. *Lucicutia flavicornis* (Claus, 1863)
76. *L. gaussae* Grice, 1963
77. *L. gemina* Farran, 1926
78. *L. paraclausi* Park, 1970

Family Heterorhabdidae

79. *Heterorhabdus papilliger* (Claus, 1863)
80. *H. spinifer* Park, 1970
81. *Heterostylites longicornis* (Giesbrecht, 1889)

Family Augaptilidae

82. *Haloptilus acutifrons* (Giesbrecht, 1892)
83. *H. austini* Grice, 1959
84. *H. longicornis* (Claus, 1863)
85. *H. ornatus* (Giesbrecht, 1892)
86. *H. paralongicirrus* Park, 1970
87. *H. spiniceps* (Giesbrecht, 1892)
88. *Augaptilus longicaudatus* (Claus, 1863)
89. *A. megalurus* Giesbrecht, 1889
90. *Euaugaptilus hecticus* (Giesbrecht, 1889)

Family Candaciidae

91. *Candacia bipinnata* Giesbrecht, 1892
92. *C. curta* (Dana, 1849)

TABLE 7. CONT.'D

93. *Candacia longimana* (Claus, 1863)
94. *C. pachydactyla* (Dana, 1849)
95. *C. paenelongimana* Fleminger & Bowman, 1956
96. *Paracandacia bispinosa* (Claus, 1863)
97. *P. simplex* (Giesbrecht, 1889)

Family Pontellidae

98. *Calanopia americana* F. Dahl, 1894
99. *Pontella securifer* Brady, 1883
100. *Labidocera acutifrons* (Dana, 1852)
101. *L. aestiva* Wheeler, 1901
102. *L. scotti* Giesbrecht, 1897
103. *Pontellopsis villosa* Brady, 1883
104. *Pontellina plumata* (Dana, 1849)

Family Acartiidae

105. *Acartia danae* Giesbrecht, 1889
106. *A. lilljeborgii* Giesbrecht, 1889
107. *A. tonsa* Dana, 1848

Order CYCLOPOIDA

Family Oithonidae

108. *Oithona decipiens* Farran, 1913
109. *O. fallax* Farran, 1913
110. *O. hamata* Rosendorn, 1917
111. *O. hebes* Giesbrecht, 1891
112. *O. nana* Giesbrecht, 1892
113. *O. plumifera* W. Baird, 1843
114. *O. robusta* Giesbrecht, 1892
115. *O. setigera* (Dana, 1852)
116. *O. similis* Claus, 1863
117. *O. simplex* Farran, 1913
118. *O. tenuis* Rosendorn, 1917
119. *O. vivida* Farran, 1913
120. *O.* sp. 1
121. *O.* sp. 3
122. *O.* sp. 4
123. *Paroithona* sp.
124. *Saphirella tropica* Wolfenden, 1906
125. *S.* sp.

Family Oncaeidae

126. *Oncaea conifera* Giesbrecht, 1891
127. *O. dentipes* Giesbrecht, 1892
128. *O. media* Giesbrecht, 1892
129. *O. mediterranea* Claus, 1863
130. *O. venusta* Philippi, 1843

TABLE 7. CONT.'D

131. *Oncaea similis* Sars, 1918
132. *Lubbockia squillimana* Claus, 1863

Family Sapphirinidae

133. *Sapphirina angusta* Dana, 1852
134. *S. auronitens* Claus, 1863
135. *S. lactens* Giesbrecht, 1892
136. *S. maculosa* Giesbrecht, 1892
137. *S. metallina* Dana, 1852
138. *S. nigromaculata* Claus, 1863
139. *S. opalina* Dana, 1852
140. *S. ovatolanceolata* Dana, 1852
141. *S. stellata* Giesbrecht, 1891
142. *Vettoria granulosa* Giesbrecht, 1891
143. *Corissa parva* Farran, 1936
144. *Copilia lata* Giesbrecht, 1892
145. *C. mirabilis* Dana, 1852
146. *C. quadrata* Dana, 1852

Family Corycaeidae

147. *Corycaeus amazonicus* F. Dahl, 1894
148. *C. americanus* M. Wilson, 1949
149. *C. clausi* F. Dahl, 1894
150. *C. flaccus* Giesbrecht, 1891
151. *C. furcifer* Claus, 1863
152. *C. giesbrechti* F. Dahl
153. *C. latus* Dana, 1849
154. *C. lautus* Dana, 1852
155. *C. limbatus* Brady, 1883
156. *C. minimus indicus* M. Dahl, 1912
157. *C. speciosus* Dana, 1852
158. *C. typicus* (Kroyer, 1853)
159. *Farranula gracilis* (Dana, 1853)
160. *F. rostrata* (Claus, 1863)

Family Mormonillidae

161. *Mormonilla minor* Giesbrecht, 1891

Parasitic or Commensal Cyclopoids

162. Siphonostoma sp. 1
163. Siphonostoma sp. 2
164. Lichomolgid sp. 1

TABLE 7. CONT.'D

Order HARPACTICOIDA

Family Ectinosomidae

165. *Microsetella rosea* (Dana, 1848)

Family Clytemnestridae

166. *Clytemnestra rostrata* Brady, 1883
167. *C. scutellata* Dana, 1848

Family Macrosetellidae

168. *Macrosetella gracilis* (Dana, 1848)

TABLE 8
NUMERICAL ABUNDANCE OF ADULT FEMALE COPEPODS PER M^3
MEAN OF TWO SAMPLES PER STATION

JANUARY/FEBRUARY CRUISE

Transect	I			II		
Station	1	2	3	1	2	3
Average No./m^3	249.7	334.4	327.1	871.9	346.9	244.4
CALANOIDA						
Acartia danae	0	0	0	0	0.6	0.8
Acartia tonsa	3.6	63.9	0	21.8	30.8	0
Acrocalanus andersoni	0	1.6	6.8	0	2.0	5.8
Acrocalanus longicornis	0	0	0.4	0	0	0.5
Aetideus acutus	0	0	0.6	0	0.6	0.2
Calanopia americana	0	1.8	0.2	0	2.5	0
Calanus tenuicornis	0	0.2	2.7	0	1.0	2.4
Calocalanus elegans	0	0	0	0	0	0.2
Calocalanus pavo	0	0	1.6	0	0	1.4
Calocalanus pavoninus	0	0	0	0	0.4	1.6
Calocalanus styliremis	0	0.2	0	0	0.4	1.6
Calocalanus sp. 1	0	0	0	0	0	0.5
Calocalanus sp. 2	0	0	0	0	0	0.2
Calocalanus sp. 3	0	0.7	0	0	0	1.4
Calocalanus sp. 4	0	0	0	0	0	0.4
Candacia curta	0	1.3	0	0	0.4	0
Candacia pachydactyla	0	0	0.2	0	0	0
Centropages hamatus	7.4	1.3	0	13.3	0	0
Centropages velificatus	0	0	0	1.2	6.1	0.5
Clausocalanus arcuicornis	0	0.7	2.7	0	1.0	4.1

TABLE 8. CONT.'D

Clausocalanus furcatus	6.1	11.8	55.1	10.9	8.0	22.5
Clausocalanus jobei	0	3.5	8.0	1.2	1.0	3.2
Clausocalanus mastigophorus	0	0.7	1.1	0	0	0.8
Clausocalanus parapergens	0	0	5.5	0	0.6	6.6
Clausocalanus paululus	0	1.5	0	0	0.6	1.4
Clausocalanus pergens	0	0	0	0	0	0.2
Ctenocalanus vanus	0	3.6	6.8	0.6	2.6	15.0
Eucalanus hyalinus	0	0	0.9	0	0	1.8
Eucalanus monachus	0	0	0	0	0.9	0
Eucalanus pileatus	0.3	8.3	7.3	0	21.1	2.9
Eucalanus sewelli	0	0	0.9	0	0.6	0
Euchaeta marina	0	0	2.2	0	0.4	0.3
Euchaeta paraconcinna	0	3.4	0.7	0	2.9	0
Euchirella rostrata	0	0	0.2	0	0	0
Haloptilus longicornis	0	0	0	0	0	0.2
Ischnocalanus plumulosus	0	0	0	0	0.4	0
Labidocera aestiva	0.6	1.3	0	0.6	3.8	0
Lucicutia flavicornis	0	4.7	8.8	1.2	1.5	17.3
Lucicutia gaussae	0	0	0	0	0	0.5
Lucicutia paraclausi	0	0.2	0	0	1.0	0
Mecynocera clausii	0	0.7	0.4	0	0	1.1
Nannocalanus minor	0	1.5	16.8	0	6.6	6.4
Neocalanus gracilis	0	0	0.2	0	0	0.2
Neocalanus robustior	0	0	0.2	0	0	0
Paivella inaciae	0	0	0	0	0	0.2
Paracalanus aculeatus	1.8	7.4	18.3	4.3	29.8	8.1

TABLE 8. CONT.'D

Paracalanus crassirostris	37.5	0.6	0	5.5	0.6	0
Paracalanus denudatus	0	0	0	0	0	0.2
Paracalanus indicus	68.6	59.4	20.6	189.6	27.3	5.3
Paracalanus quasimodo	66.1	56.1	12.4	547.8	32.7	2.3
Paracalanus nudus	0	0	0	0	0	0.2
Paracandacia bispinosa	0	0	1.1	0	0	0.7
Paracandacia simplex	0	0	2.0	0	1.1	0.3
Parundinella spinodenticula	0	0.7	0	0	0	0
Pleuromamma abdominalis	0	0	0	0	0	0.3
Pleuromamma gracilis	0	0	1.1	0	0	5.2
Pleuromamma piseki	0	0	0.2	0	0	4.7
Rhincalanus cornutus	0	0	0.6	0	2.4	0.8
Scaphocalanus brevirostris	0	0	0.4	0	0	0
Scaphocalanus subcurtus	0	0	0	0	0	1.6
Scolecithricella dentata	0	0	0.2	0	0	0.4
Scolecithricella tenuiserrata	0	0	0.7	0	1.0	0.6
Scolecithrix bradyi	0	0	0.2	0	0	1.4
Scolecithrix danae	0	0	1.5	0	0	1.9
Stephos deichmannae	0	0	0	3.0	1.0	0
Temora stylifera	0	0.7	1.6	0	1.0	1.8
Temora turbinata	2.3	8.2	40.4	17.6	12.2	11.5
Temoropia mayumbaensis	0	0.7	0	0	0	1.5
Undinula vulgaris	0	0	1.4	0	0	0.6
CYCLOPOIDA						
Copilia lata	0	0.7	0.4	0	0	0
Copilia mirabilis	0	0	0	0	0.9	0

TABLE 8. CONT.'D

Corissa parva	0	0	0	0	0	0.2
Corycaeus amazonicus	0.7	2.7	0.2	4.2	3.5	0.2
Corycaeus americanus	16.1	4.0	0.4	24.8	3.6	0
Corycaeus clausi	0	0	1.8	0	0.4	0.7
Corycaeus flaccus	0	0.7	0.6	0	0.6	0.2
Corycaeus giesbrechti	0	0	1.6	0	2.4	0
Corycaeus latus	0	0	0.4	0	0	1.0
Corycaeus lautus	0	0	0.6	0	0	0.2
Corycaeus limbatus	0	0.7	0.6	0	0	0.5
Corycaeus minimus	0	0.2	0	0	0	0.3
Corycaeus speciosus	0	0.7	0.6	0	1.5	0.8
Corycaeus typicus	0	0	0	0	1.5	1.0
Farranula gracilis	0	0	13.3	0	0	1.6
Farranula rostrata	0	0.7	0	0	0	0.7
Lichomolgus sp. 1	0	0.8	0	0	0	0
Lubbockia squillimana	0	2.6	0.9	0	0.4	2.1
Oithona decipiens	2.3	0.2	0	0	0	0
Oithona fallax	0	0	0	0	0	0.5
Oithona nana	6.8	1.1	0	4.3	1.0	0.2
Oithona plumifera	3.7	16.0	15.1	1.8	29.0	16.6
Oithona robusta	0	0	0	0	0.6	0
Oithona setigera	0.3	2.5	2.2	0	1.5	2.8
Oithona similis	0	0.8	0	0	0	0
Oithona tenuis	0	0.8	1.8	0	0	0.9
Oithona vivida	0	0.3	0	0	0	0.2
Oithona sp. 1	0.5	1.6	0.4	1.2	0.4	1.2
Oithona sp. 3	0	0.2	0	0	0	0
Oithona sp. 4	0	0	0	0	0	0.8

TABLE 8. CONT.'D

Oncaea conifera	0	0.8	1.1	0	3.1	5.7
Oncaea dentipes	0	1.3	0	0	0.6	0
Oncaea media	0.5	6.1	0.6	6.7	13.0	4.3
Oncaea mediterranea	0.5	21.7	30.0	1.2	35.0	40.0
Oncaea venusta	0	8.3	21.2	1.2	32.4	10.1
Oncaea similis	0	0	0	0	0	0.3
Paroithona sp.	0	0.2	0	0	0	0
Sapphirina metallina	0	0	0.6	0	0	0.7
Sapphirina nigromaculata	0.3	0.2	0	0	0	0
Sapphirina opalina	0	0	0	0	0.4	0.2
Sapphirina stellata	0	0	0.2	0	0	0
HARPACTICOIDA						
Clytemnestra rostrata	0.3	1.6	0	0	1.0	0
Clytemnestra scutellata	0	0	0	0	0.9	0.5
Macrosetella gracilis	0	0.3	0.2	0	2.5	0.6
Benthic harpacticoid females	18.5	8.9	0.4	7.9	5.1	0.1

TABLE 8. CONT.'D

Transect	III			IV		
Station	1	2	3	1	2	3
Average No./m^3	504.4	175.5	296.7	1770.9	338.5	128.1
CALANOIDA						
Acartia danae	0	1.3	0.3	0	0	0.3
Acartia tonsa	2.1	0	0	2.2	0.9	0
Acrocalanus andersoni	0	1.8	0.3	0	0.9	4.5
Acrocalanus longicornis	0	0.4	0	0	0	0
Aetideus acutus	0	0.8	0	0	0	0.4
Calanopia americana	0	0	0.6	0	2.1	0
Calanus tenuicornis	0	1.1	0.6	0	0	2.2
Calocalanus elegans	0	0	0	0	0	0.1
Calocalanus pavo	0	0.8	0	0	0	1.5
Calocalanus pavoninus	0	0.9	0	0	0	1.3
Calocalanus styliremis	0.5	0.8	0.9	0	1.8	0.7
Calocalanus sp. 1	0	0	0	0	0	0.5
Calocalanus sp. 2	0	0.2	0	0	0	1.1
Calocalanus sp. 3	0	0.9	0.3	0	0	0.8
Calocalanus sp. 4	0	0.6	0	0	0	0.6
Candacia curta	0.5	0.2	0	1.7	0	0.1
Centropages caribbeanensis	0	0	0.3	0	0	0
Centropages hamatus	3.6	0	0	9.4	0	0
Centropages velificatus	6.8	0	0.3	21.3	3.3	0.2

TABLE 8. CONT.'D

Clausocalanus arcuicornis	0	2.7	1.8	0	0.6	2.0
Clausocalanus furcatus	14.4	16.3	47.4	54.9	11.7	8.4
Clausocalanus jobei	0	1.1	1.5	0	1.8	1.2
Clausocalanus mastigophorus	0	0.4	0.9	0	0.3	0.4
Clausocalanus parapergens	0	1.7	2.6	0	0.3	1.0
Clausocalanus paululus	0	0.2	0	0	0	0.9
Ctenocalanus vanus	0	5.7	4.0	1.7	1.8	5.0
Eucalanus hyalinus	0	1.8	0	0	0	1.5
Eucalanus pileatus	9.8	4.0	5.0	0	16.0	1.8
Eucalanus sewelli	0	0.4	0.6	0	0	0.3
Euchaeta marina	0	0.2	1.1	0	0.3	0.2
Euchaeta media	0	0	0.3	0	0	0
Euchaeta paraconcinna	0	0	0	0	2.7	0.7
Euchirella rostrata	0	0	0	0	0	0.1
Haloptilus austini	0	0	0	0	0	0.1
Haloptilus longicornis	0	0	0.3	0	0	0.7
Haloptilus ornatus	0	0	0	0	0	0.1
Heterorhabdus spinifer	0	0	0.3	0	0	0
Ischnocalanus plumulosus	0	0.4	0	0	0	0.1
Lucicutia flavicornis	0	6.1	1.7	0	0.9	14.8
Lucicutia gaussae	0	0.8	0	0	0	0.7
Lucicutia paraclausi	0	0	0	0	1.2	0
Mecynocera clausii	0	1.1	0.9	0	0	1.8
Nannocalanus minor	0	5.0	15.0	0	3.6	2.8
Neocalanus gracilis	0	0	0	0	0	0.1
Paracalanus aculeatus	1.1	12.7	10.5	3.9	8.7	3.4

TABLE 8. CONT.'D

Paracalanus crassirostris	0.5	0	0	3.9	0	0
Paracalanus denudatus	0	0	0.3	0	0	0.1
Paracalanus indicus	36.2	4.3	17.9	674.3	174.2	0.9
Paracalanus quasimodo	330.9	2.8	81.3	828.1	26.4	0.7
Paracandacia bispinosa	0	0.6	0.3	0	0	0.4
Paracandacia simplex	0	0.2	0	0	0	0.6
Parundinella spinodenticula	0	0	0	0	1.5	0
Pleuromamma abdominalis	0	0	0	0	0	0.1
Pleuromamma gracilis	0	0.4	0	0	0	0
Pleuromamma piseki	0	0.4	0	0	0	0
Pontellina plumata	0	0	0.3	0	0	0
Rhincalanus cornutus	0	2.2	0	1.7	0	0.7
Scaphocalanus subcurtus	0	0.2	0	0	0	0
Scolecithricella ctenopus	0	0	0	0	0	0.2
Scolecithricella tenuiserrata	0	0.4	0	0	0	0.7
Scolecithrix bradyi	0	0	0	0	0.3	0.2
Scolecithrix danae	0	1.5	0.6	0	0	0.7
Stephos deichmannae	0	0	0	0	1.2	0
Temora stylifera	0	0.6	0.3	0	0.6	0.6
Temora turbinata	25.8	15.8	47.4	109.3	14.1	0.1
Temoropia mayumbaensis	0	0	0	0	0.6	0
Undinula vulgaris	0	1.7	0.8	0	0.3	0.2
CYCLOPOIDA						
Copilia lata	0	0.2	0	0	0.3	0.5
Copilia mirabilis	0	0	0.9	0	0	0.1
Copilia quadrata	0	0	0	0	0	0.1

TABLE 8. CONT.'D

Corycaeus amazonicus	11.1	0.2	0.9	16.9	6.2	0.1
Corycaeus americanus	43.6	0	0	15.6	1.8	0.1
Corycaeus clausi	0	1.3	0.3	0	0	0.1
Corycaeus flaccus	0	0.2	0	0	0.3	0.4
Corycaeus furcifer	0	0.2	0	0	0	0.1
Corycaeus giesbrechti	0	2.9	2.1	1.7	3.0	0.5
Corycaeus latus	0	0.4	1.5	0	0.9	0.2
Corycaeus lautus	0	0.2	0	0	0	0.2
Corycaeus limbatus	0	0	0	0	0	0.8
Corycaeus minimus	0	0.4	0	0	0	0.2
Corycaeus speciosus	0	0.9	0.6	0	0.6	0.7
Corycaeus typicus	0	0.9	0	1.7	0	0.7
Farranula gracilis	0	1.3	10.4	0	2.1	0.6
Farranula rostrata	0	0.6	0	1.7	0	0.5
Lichomolgus sp. 1	0	0	0	0	0	0.1
Lubbockia squillimana	0	1.5	0.3	0	0	1.2
Oithona decipiens	0	0.2	0.3	0	0	0.1
Oithona nana	0.6	0	0	0	0	0.3
Oithona plumifera	3.0	12.7	6.0	0	12.1	11.3
Oithona robusta	0	0.2	0	0	0	0.3
Oithona setigera	0	1.9	0.3	1.7	0	4.4
Oithona tenuis	0	2.4	1.4	0	0	1.5
Oithona vivida	0	0	0	0	0	0.1
Oithona sp. 1	0	1.3	0.3	0	1.2	1.3
Oithona sp. 2	0	0	0	0	0	0.1
Oithona sp. 4	0	0	0	0	0	0.1
Oncaea conifera	0	0.8	0.3	0	0.6	1.2

TABLE 8. CONT.'D

Oncaea media	3.2	2.2	1.9	1.7	0	1.6
Oncaea mediterranea	1.1	28.2	9.3	3.4	8.4	19.8
Oncaea venusta	0	13.1	13.1	3.4	11.4	11.4
Oncaea similis	0	0	0	0	0	0.1
Sapphirina auronitens	0	0.2	0	0	0	0
Sapphirina metallina	0	0.2	0	0	0	0.1
Sapphirina nigromaculata	0	0	0.3	0	0	0
Sapphirina opalina	0	0	0	0	0	0.1
Siphonostomata sp. 1	0	0	0	0	0	0.1
Vettoria granulosa	0	0	0.3	0	0	0
HARPACTICOIDA						
Clytemnestra rostrata	0	0	0	0	0.9	0
Clytemnestra scutellata	0	0.2	0	1.7	0	0.1
Macrosetella gracilis	2.6	0.4	0.3	1.7	11.0	0.9
Benthic harpacticoid females	7.3	0.4	0.3	6.8	0	0.1

TABLE 8. CONT.'D

TRANSECT II - MARCH/APRIL CRUISE

Cruise	March			April		
Station	1	2	3	1	2	3
Average No./m^3	1073.9	298.4	340.4	1769.1	521.8	277.3
CALANOIDA						
Acartia danae	0	0.5	1.4	0	0.3	1.0
Acartia tonsa	223.4	0	0	123.5	141.5	0
Acrocalanus andersoni	0	0	0.9	0	0	0.7
Aetideus acutus	0	0	0.6	0	0	0
Calanopia americana	0	1.6	0.6	0	0	0.2
Calanus tenuicornis	0	1.0	0.6	0	0	0.5
Calocalanus pavo	0	0.4	0.9	0	1.5	5.3
Calocalanus pavoninus	0	1.1	0.9	0	1.5	1.0
Calocalanus styliremis	0	1.0	1.4	0	1.2	1.0
Calocalanus sp. 1	0	0	0.3	0	0	0
Calocalanus sp. 2	0	0	0.3	0	0	0.2
Calocalanus sp. 3	0	0	0.6	0	0	0.2
Calocalanus sp. 4	0	0	0	0	0	0.2
Candacia bipinnata	0	0	0	0	0.3	0
Candacia curta	0	0.5	0.3	0	1.2	0.3
Candacia pachydactyla	0	0.5	0	0	0	0.3
Centropages hamatus	4.0	0	0	0.5	0	0
Centropages velificatus	1.0	1.6	0.9	2.7	3.9	0.5

TABLE 8. CONT.'D

Clausocalanus arcuicornis	0	1.8	9.2	0	0.3	6.6
Clausocalanus furcatus	10.0	48.7	65.1	12.4	31.7	75.4
Clausocalanus jobei	8.0	2.7	16.2	0	0	11.1
Clausocalanus mastigophorus	0	0.7	3.4	0	0.9	1.5
Clausocalanus parapergens	0	0	22.3	0	0	5.6
Clausocalanus paululus	0	0	0.6	0	0	0
Clausocalanus pergens	0	0	4.8	0	0	0
Ctenocalanus vanus	0	11.5	25.4	0	0	3.5
Eucalanus pileatus	1.0	2.3	1.7	3.8	5.9	2.8
Eucalanus sewelli	0	0	0.6	0	0	0.2
Euchaeta marina	0	0.6	1.4	0	1.8	0.7
Euchaeta paraconcinna	0	1.7	1.1	0	0.3	1.1
Haloptilus longicornis	0	0	0.6	0	0	0.9
Ischnocalanus plumulosus	0	1.5	0.6	0	0.3	1.8
Labidocera aestiva	1.0	0	0	21.9	3.5	0
Lucicutia flavicornis	0	4.1	5.9	0	0	3.5
Lucicutia gaussae	0	0	0	0	0	0.3
Lucicutia gemina	0	0	0.3	0	0	0
Lucicutia paraclausi	0	0.5	2.8	0	0	0
Mecynocera clausii	0	0.5	1.2	0	0	0.7
Nannocalanus minor	0	1.8	14.8	0	10.8	13.0
Neocalanus gracilis	0	0	0.6	0	0.3	0
Paivella inaciae	0	0	0.6	0	0	0
Paracalanus aculeatus	2.0	1.5	7.0	0	7.7	11.6
Paracalanus crassirostris	0	0	0	2.7	0	0
Paracalanus indicus	54.1	19.8	4.5	36.6	31.7	4.1

TABLE 8. CONT.'D

Paracalanus quasimodo	714.2	107.1	7.8	1528.1	225.2	7.4
Paracandacia simplex	0	0.5	0	0	0	1.3
Parundinella spinodenticula	0	0	0.6	0	0	0
Pleuromamma gracilis	0	0	1.4	0	0	0
Pleuromamma piseki	0	0	1.7	0	0	0
Pseudodiaptomus sp. 1	0	0	0	2.2	0	0
Pseudodiaptomus sp. 2	0	0	0	1.1	0	0
Rhincalanus cornutus	0	0.1	1.4	0	0	0
Scaphocalanus subcurtus	0	0	2.8	0	0	0
Scolecithricella ctenopus	0	0	0.3	0	0	0.3
Scolecithricella dentata	0	0	0.6	0	0	0
Scolecithricella tenuiserrata	0	0	0	0	0	0.3
Scolecithrix bradyi	0	0	0	0	0	0.3
Scolecithrix danae	0	1.7	4.7	0	1.2	2.7
Stephos deichmannae	0	2.0	0	0	0	0
Temora stylifera	1.0	0.9	4.2	7.0	5.9	1.8
Temora turbinata	10.0	1.5	1.7	0.5	0	0.6
Temoropia mayumbaensis	0	0	1.7	0	0	0
Undinula vulgaris	0	0	0.6	0	1.8	1.7
CYCLOPOIDA						
Copilia lata	0	0	0.3	0	0	0.2
Copilia mirabilis	0	0	0.6	0	0	0.2
Corissa parva	0	0	0.3	0	0	0
Corycaeus amazonicus	15.0	3.0	1.2	0.5	2.1	0.7
Corycaeus americanus	21.0	7.0	0.9	23.9	1.2	0.7

TABLE 8. CONT.'D

Corycaeus clausi	0	0	0.6	0	0	0.3
Corycaeus flaccus	0	0.5	0.3	0	0	0
Corycaeus giesbrechti	1.0	2.4	2.6	0	1.5	1.2
Corycaeus latus	0	0	0	0	0	0.7
Corycaeus lautus	0	0	0.3	0	0	0.4
Corycaeus limbatus	0	0	0.6	0	0	0
Corycaeus minimus	0	0	0.3	0	0	0
Corycaeus speciosus	0	0.5	0.6	0	0.3	0.5
Corycaeus typicus	0	0	0.9	0	0	0.2
Farranula gracilis	0	26.2	8.4	0	6.5	6.1
Farranula rostrata	0	0.5	0.3	0	0	0.2
Lichomolgus sp.1	0	7.4	0	0	0	0
Lubbockia squillimana	0	0	0.6	0	0	0.4
Oithona fallax	0	0	0.3	0	0	0.2
Oithona plumifera	2.0	16.4	17.9	0	4.7	14.2
Oithona robusta	0	0	0.3	0	0	0.2
Oithona setigera	0	1.5	11.2	0	0	2.1
Oithona tenuis	0	0.5	1.7	0	0	0.8
Oithona vivida	0	0	0	0	0	4.9
Oithona sp. 1	0	0.5	1.4	0	0	0.8
Oncaea conifera	0	4.6	3.4	0	0	3.8
Oncaea media	1.0	0.5	2.0	0	0.3	2.7
Oncaea mediterranea	0	3.0	34.9	0	12.9	52.2
Oncaea venusta	1.0	1.9	19.8	1.1	11.4	11.8
Sapphirina metallina	0	0	0.1	0	0	0
Sapphirina nigromaculata	1.0	0	0	0	0	0

TABLE 8. CONT.'D

HARPACTICOIDA						
Clytemnestra rostrata	1.0	0	0.3	0	0	0
Clytemnestra scutellata	0	0.1	0	0	0	0
Macrosetella gracilis	0	0.5	1.2	0	0.9	1.4
Benthic harpacticoid females	1.0	1.1	0	1.0	0	0

TABLE 8. CONT.'D

MAY/JUNE CRUISE

Transect	I			II		
Station	1	2	3	1	2	3
Average No./m^3	370.2	816.5	238.6	425.0	796.2	178.7
CALANOIDA						
Acartia danae	0	0	2.1	0.6	3.7	2.8
Acartia lilljeborgii	0	0	0	0	1.0	0
Acartia tonsa	3.9	0	0	2.0	0	0
Acrocalanus andersoni	0	0	0.1	0	0.9	0.5
Acrocalanus longicornis	0	0	0.2	0	0	0
Aetideus acutus	0	0	0.7	0	0	0.2
Calanus tenuicornis	0	1.2	1.0	0	0	1.0
Calocalanus pavo	0	0	7.1	1.1	2.8	7.8
Calocalanus pavoninus	0	0	1.1	1.1	0	1.0
Calocalanus styliremis	0	0	1.2	0	0	0.8
Calocalanus sp. 2	0	0	0	0	0	0.2
Calocalanus sp. 3	0	0	0.7	0	0	0.5
Calocalanus sp. 4	0	0	0.2	0	0	0.2
Candacia curta	0	0.8	0	0	0.9	0
Candacia pachydactyla	0	0	0	0	0	0.4
Centropages caribbeanensis	0	0	0.1	0	0	0.5
Centropages velificatus	113.1	209.7	1.2	206.1	220.5	15.4
Clausocalanus arcuicornis	0	0	2.5	0	0	0.5
Clausocalanus furcatus	0.4	31.0	27.3	24.6	10.1	22.1

TABLE 8. CONT.'D

Clausocalanus jobei	0	76.0	4.1	0	11.9	1.3
Clausocalanus mastigophorus	0	0	0.1	0	0	0
Clausocalanus parapergens	0	0	2.6	0	0	0
Clausocalanus pergens	0	0	0	0	0	0.2
Ctenocalanus vanus	0	2.0	10.6	0	1.0	3.1
Eucalanus hyalinus	0	0	0	0	0	0.2
Eucalanus monachus	0	0	0.1	0	0	0
Eucalanus pileatus	81.8	63.5	1.9	32.6	59.0	3.0
Eucalanus sewelli	0	0	0	0	0	0.2
Euchaeta marina	0	0	0.3	0	0	0.4
Euchaeta paraconcinna	0	0	0	0.6	4.6	0
Haloptilus longicornis	0	0.8	0.7	0	0	1.5
Haloptilus paralongicirrus	0	0	0.1	0	0	0
Haloptilus spiniceps	0	0	0.1	0	0	0
Heterorhabdus papilliger	0	0	0.4	0	0	0
Ischnocalanus plumulosus	0	0	1.3	0	0	0.2
Labidocera aestiva	0	0	0	1.5	0.9	0
Lucicutia flavicornis	0	1.2	5.4	0	0	2.2
Lucicutia gaussae	0	0	0.5	0	0	0.2
Lucicutia gemina	0	0	0.1	0	0	0
Lucicutia paraclausi	0	7.0	0	0	1.8	0
Mecynocera clausii	0	2.8	3.2	0	0	6.2
Nannocalanus minor	0	1.2	2.2	0	0.9	4.2
Neocalanus gracilis	0	0	0.3	0	0	0.2
Paivella inaciae	0	0	0.4	0	0	0.2
Paracalanus aculeatus	12.0	5.9	1.8	4.2	23.7	2.1

TABLE 8. CONT.'D

Paracalanus denudatus	0	0	0.1	0	0	0
Paracalanus indicus	24.7	88.4	1.3	6.4	117.1	6.1
Paracalanus quasimodo	77.3	65.9	6.9	34.8	89.7	7.8
Paracandacia simplex	0	0	0.2	0	0	0.2
Phaenna spinifera	0	0	0	0	0	0.2
Pleuromamma gracilis	0	0	0.2	0	0	0
Pleuromamma piseki	0	0	0.2	0	0	0
Pontellina plumata	0	0	0.1	0	0	0
Rhincalanus cornutus	0	0	0.9	0	0	0.2
Scaphocalanus subcurtus	0	0	0.5	0	0	0
Scolecithricella ctenopus	0	0	0.2	0	0	0
Scolecithricella dentata	0	0	0.2	0	0	0
Scolecithricella tenuiserrata	0	0	0.1	0	0	0
Scolecithrix bradyi	0	0	1.2	0	0	0
Scolecithrix danae	0	0	0.3	0.5	0.9	1.0
Stephos deichmannae	0	0	0	0	0.9	0
Temora stylifera	8.0	61.5	7.1	12.8	15.5	11.7
Temora turbinata	2.4	19.3	0.1	0.6	16.5	0
Temoropia mayumbaensis	0	0	0.1	0	0	0
Undinula vulgaris	0	1.2	0.1	1.2	0	0
CYCLOPOIDA						
Copilia lata	0	0	0	0	0	0.3
Copilia mirabilis	0	0	0	0	0	1.1
Copilia quadrata	0	0	0.1	0	0	0
Corissa parva	0	0	0.1	0	0	0.2
Corycaeus amazonicus	16.4	33.4	0.5	10.9	41.5	1.9

TABLE 8. CONT.'D

Corycaeus americanus	24.0	72.9	0.1	27.0	90.2	0.5
Corycaeus clausi	0	0	0.8	0	0	0.5
Corycaeus flaccus	0	0	0.3	0	0	0.4
Corycaeus furcifer	0	0	0.1	0	0	0
Corycaeus giesbrechti	0.7	3.5	1.2	0.5	0.9	1.9
Corycaeus latus	0	0	0.7	0	0	0
Corycaeus lautus	0	0	0.1	0	0	0.2
Corycaeus limbatus	0	0	1.2	0	0	0.5
Corycaeus minimus	0	0	0.1	0	1.0	0
Corycaeus speciosus	0	0	0.1	0.5	0	0.5
Corycaeus typicus	0	0	0	0	0	0.2
Farranula gracilis	1.4	7.0	30.5	2.8	2.8	6.2
Lichomolgus sp. 1	0	0	0	0	1.8	0
Lubbockia squillimana	0	0	1.1	0	0	0.5
Oithona decipiens	0	0	0.2	0	0	0
Oithona hamata	0	0	1.5	0	0	0
Oithona hebes	0	0	0	0	0.9	0
Oithona nana	0	0.8	0	0	0	0
Oithona plumifera	1.1	9.0	16.5	15.0	10.7	5.6
Oithona robusta	0	0	1.4	0	0	1.0
Oithona setigera	0	0.8	18.6	0	1.9	3.6
Oithona tenuis	0	0	1.8	0	0	1.1
Oithona vivida	0	0	0.1	0	0	0
Oithona sp. 1	0	1.2	1.8	0	2.7	0
Oncaea conifera	0	6.4	5.0	0	1.9	1.3
Oncaea media	0.7	0.8	0.9	1.7	2.8	0.7
Oncaea mediterranea	0	22.0	40.6	0	18.9	29.9

TABLE 8. CONT.'D

Oncaea venusta	1.0	12.2	2.2	34.5	33.1	2.6
Sapphirina auronitens	0	0	0.1	0	0	0
Sapphirina metallina	0	0	0.4	0	0	0
Sapphirina nigromaculata	0	1.6	0.1	0	0	0
HARPACTICOIDA						
Clytemnestra rostrata	0	1.2	0	1.0	0	0
Clytemnestra scutellata	0	0	0.5	0	0	0.2
Macrosetella gracilis	0.4	3.6	9.0	1.1	0.9	13.2
Benthic harpacticoid females	1.5	1.6	0	0	1.0	0

TABLE 8. CONT.'D

Transect	III			IV		
Station	1	2	3	1	2	3
Average No./m^3	300.1	645.2	534.4	875.3	502.7	196.1
CALANOIDA						
Acartia danae	2.7	1.0	0.8	0	0.3	1.0
Acartia tonsa	0	1.0	0	0	0	0
Acrocalanus andersoni	0	0	0.9	0.7	0.5	0
Acrocalanus longicornis	0.4	0	0.4	0	0	0
Aetideus acutus	0	0	0	0	0	0.2
Calanopia americana	0	0	0	0.4	0	0
Calanus tenuicornis	0	0	0.4	0	0	0.9
Calocalanus pavo	0	3.8	8.4	2.1	7.0	11.5
Calocalanus pavoninus	1.5	2.4	0.9	0	1.3	0.2
Calocalanus styliremis	0	4.7	0.8	0	0	0.4
Calocalanus sp. 3	0	0	0	0	0	0.5
Candacia curta	0.4	1.5	0.4	0	2.4	0
Candacia pachydactyla	0	0	0.4	0	0	0
Centropages caribbeanensis	0	0	0	0	0	0.2
Centropages velificatus	38.2	43.0	27.3	21.9	9.8	3.7
Clausocalanus arcuicornis	0	0	0	0	1.3	0.5
Clausocalanus furcatus	16.8	68.5	34.9	370.6	75.5	8.8
Clausocalanus jobei	0.4	74.5	57.6	17.4	14.1	7.8
Clausocalanus mastigophorus	0	0	0	0	0	0.4
Clausocalanus parapergens	0	0	0	0	0	0.5

TABLE 8. CONT.'D

Ctenocalanus vanus	0	3.9	6.3	0	3.0	7.9
Eucalanus hyalinus	0	1.0	0	0	0	0.2
Eucalanus pileatus	21.6	16.3	6.8	36.9	10.1	4.0
Eucalanus sewelli	0	0	0.4	0	0	0
Euchaeta marina	0	0	0.5	0	0.4	0
Euchaeta paraconcinna	0.4	2.0	0	0	3.0	0
Haloptilus longicornis	0	0	1.3	0	0	0.7
Heterorhabdus papilliger	0	0	0	0	0.3	0.2
Ischnocalanus plumulosus	0	0	3.6	0	1.4	2.1
Labidocera scotti	0	0	0	1.6	0.3	0
Lucicutia flavicornis	0.4	2.9	1.3	0	2.7	2.3
Lucicutia gaussae	0	0	0.5	0	0.3	0
Lucicutia paraclausi	0	7.2	0	0	0	0
Mecynocera clausii	0	1.0	1.3	0	1.9	4.5
Nannocalanus minor	2.3	3.4	6.3	12.3	4.5	1.4
Paracalanus aculeatus	24.7	16.4	13.8	40.3	4.5	5.1
Paracalanus indicus	21.3	28.2	28.7	26.4	15.9	2.5
Paracalanus quasimodo	35.2	57.4	17.9	114.9	96.6	7.9
Paracandacia simplex	0	0	2.1	0	1.6	0.6
Parundinella spinodenticula	0	0.5	0	0	0	0
Pleuromamma piseki	0	0	0	0	0	0.5
Rhincalanus cornutus	0	0	0	0.4	0	1.3
Scaphocalanus subcurtus	0	0	0	0	0	0.2
Scolecithricella ctenopus	0	1.0	0	0	0	0
Scolecithricella tenuiserrata	0	0	0	0	0.4	1.3
Scolecithrix danae	0	0	0.9	0	0.3	0.2

TABLE 8. CONT.'D

Temora stylifera	53.4	14.4	24.0	15.3	20.8	0.9
Temora turbinata	0	0.5	6.9	2.8	0.9	0.8
Undinula vulgaris	0.4	0	0	7.1	0	0
CYCLOPOIDA						
Copilia lata	0	0	0	0	0.3	0.3
Copilia mirabilis	0	0	0.4	0	0	0.7
Corycaeus amazonicus	6.8	16.7	6.3	44.3	8.5	3.4
Corycaeus americanus	21.3	39.1	12.3	66.0	9.4	0.4
Corycaeus clausi	0	0	0.4	0	0.5	0.6
Corycaeus flaccus	0	0.5	0.5	0	0	0.2
Corycaeus giesbrechti	3.8	1.5	4.8	15.5	2.9	3.6
Corycaeus latus	0	0	0	0	1.5	0
Corycaeus lautus	0	0	0	0	0.4	0
Corycaeus limbatus	0	0	1.0	0	0	0.4
Corycaeus speciosus	0.4	0	0	0	0.4	0.2
Corycaeus typicus	0	0	0	0	0	0.7
Farranula gracilis	6.1	30.6	36.7	8.5	19.9	3.7
Farranula rostrata	0	0	0.4	7.0	0	0
Lichomolgus sp. 1	0	0.5	0	0	0.5	0
Lubbockia squillimana	0	0	0.9	0	0.8	1.3
Oithona hamata	0	0	0	0	0.3	0
Oithona plumifera	10.2	37.3	16.0	5.1	4.0	15.6
Oithona robusta	0	0	1.0	0	0	0.8
Oithona setigera	0	4.3	5.0	0	0.3	5.5
Oithona tenuis	0	0	0.4	0	0.9	2.5
Oithona sp. 1	0	4.3	3.1	0	0	0.9

TABLE 8. CONT.'D

Oncaea conifera	0	8.6	7.5	0	4.1	2.0
Oncaea media	0	4.3	0.4	0	1.7	1.2
Oncaea mediterranea	0.4	100.8	121.9	6.4	134.4	59.4
Oncaea venusta	23.6	22.0	49.7	19.6	24.2	3.0
Sapphirina maculosa	0	0	0	0	0	0.2
Sapphirina nigromaculata	0	1.5	0.4	0	0.6	0
Sapphirina ovatolanceolata	0	4.7	0	0	0	0
HARPACTICOIDA						
Clytemnestra rostrata	2.3	1.9	0	0.4	0	0.2
Clytemnestra scutellata	0	1.0	0.5	0	0.3	0.2
Macrosetella gracilis	2.7	10.1	9.4	32.0	7.0	9.8
Microsetella rosea	0	0	0	0	0	0.2
Miracia efferata	0	0	0	0	0.4	0
Benthic harpacticoid females	0.8	0	0	0	0.3	0

TABLE 8. CONT.'D

TRANSECT II - JULY/AUGUST CRUISE

Cruise	July			August		
Station	1	2	3	1	2	3
Average No./m^3	564.5	385.0	134.2	203.9	222.7	272.6
CALANOIDA						
Acartia danae	0	1.1	3.6	0	0.2	2.3
Acartia lilljeborgii	1.9	0	0	0.4	0	0
Acartia tonsa	0.3	0	0	0	0.1	0
Acrocalanus andersoni	0	0	0.1	0	0	1.1
Acrocalanus longicornis	0.5	0.3	0	0	2.1	2.3
Calanopia americana	0	0	0	0.9	0.8	0.7
Calanus tenuicornis	0	0	0	0	0	0.2
Calocalanus pavo	0	2.1	1.0	0	1.1	4.4
Calocalanus pavoninus	0.3	0	0.5	0	3.2	1.4
Calocalanus styliremis	0	0	0.1	0.9	0.6	0.4
Candacia curta	0	0.5	0	0	0	0.2
Centropages velificatus	40.1	26.3	0.3	7.2	12.3	4.5
Clausocalanus arcuicornis	0	0.6	0.1	0	0	0.9
Clausocalanus furcatus	72.1	53.8	5.4	1.7	12.3	24.7
Clausocalanus jobei	0.7	18.6	0	0	0	19.0
Clausocalanus parapergens	0	0	0	0	0	1.4
Ctenocalanus vanus	0	0	0.1	0	0	7.1
Eucalanus pileatus	10.4	2.4	0.3	18.1	4.4	1.1

TABLE 8. CONT.'D

Euchaeta marina	0	0	0	0	0	1.2
Euchaeta paraconcinna	0	1.1	0	0	0.4	0.9
Haloptilus longicornis	0	0	0	0	0	0.2
Heterorhabdus spinifer	0	0	0.1	0	0	0.2
Ischnocalanus plumulosus	0	0	1.3	0	0	0.5
Lucicutia flavicornis	0	0	1.7	0	0	10.4
Lucicutia gaussae	0	0	0.1	0	0	0
Lucicutia paraclausi	0	0.3	0	0	0.1	0
Mecynocera clausii	0	0.5	4.6	0	0	2.4
Nannocalanus minor	0.5	3.2	0	0	1.3	11.3
Paivella inaciae	0	0	0	0	0	0.2
Paracalanus aculeatus	87.1	47.9	11.5	34.0	69.0	11.6
Paracalanus indicus	131.0	16.7	0.1	21.2	3.6	7.5
Paracalanus quasimodo	39.0	7.0	0.1	54.7	19.3	3.1
Paracandacia simplex	0	0	1.1	0	0	0.7
Pleuromamma abdominalis	0	0	0	0	0	0.2
Pleuromamma gracilis	0	0	0	0	0	0.9
Pleuromamma piseki	0	0	0	0	0	0.7
Pontellina plumata	0	0	0.1	0	0	0
Pontellopsis villosa	0	0	0.1	0	0	0
Scaphocalanus subcurtus	0	0	0	0	0	0.4
Scolecithricella ctenopus	0	0	0	0	0	0.2
Scolecithricella dentata	0	0	0	0	0	0.4
Scolecithricella tenuiserrata	0	0	0	0	0	0.4
Scolecithrix bradyi	0	0	0	0	0	0.4
Scolecithrix danae	0	0	0.1	0	0	1.2

TABLE8. CONT.'D

Stephos deichmannae	0	0	0	0	0	0.2
Temora stylifera	8.3	12.2	3.9	0.4	1.7	3.0
Temora turbinata	26.2	3.9	0.2	6.6	0.2	16.1
Temoropia mayumbaensis	0	0	0	0	0	0.2
Undinula vulgaris	0.3	1.9	0	0	0.8	1.9
CYCLOPOIDA						
Copilia mirabilis	0	0.3	0.3	0	0.6	1.9
Corycaeus amazonicus	15.8	3.9	0.1	6.1	1.9	0.7
Corycaeus americanus	25.5	5.2	0.1	3.2	0.5	0.4
Corycaeus clausi	0	0	0.1	0	0	0.2
Corycaeus giesbrechti	19.4	15.2	3.7	23.5	10.4	2.1
Corycaeus latus	0	1.1	0	0	0.7	0.7
Corycaeus lautus	0	0	0.1	0	0	0
Corycaeus limbatus	0	0	0	0	0	0.2
Corycaeus speciosus	0	1.1	0.1	0	0.5	0.4
Corycaeus typicus	0	0	0.4	0	0	0
Farranula gracilis	26.9	65.4	8.3	4.2	16.1	20.3
Lichomolgus sp. 1	0	0	0	0	0	0.5
Lubbockia squillimana	0	0	2.3	0	0	0.5
Oithona hamata	0	0	0	0	0	0.2
Oithona plumifera	23.8	23.7	25.2	5.2	39.4	19.1
Oithona robusta	0	0	0.1	0	0	0
Oithona setigera	0	0	0.3	0	0	4.4
Oithona tenuis	0.3	0.6	2.3	0	0.1	0.5
Oithona sp. 1	0	0	0	0	0	1.4
Oncaea conifera	0.3	0	0.9	0	0	6.4

TABLE 8. CONT.'D

Oncaea media	0	0	0	0	0.2	0.5
Oncaea mediterranea	0	14.7	32.9	0	2.5	46.6
Oncaea venusta	33.8	52.6	13.6	14.5	15.0	15.8
Sapphirina angusta	0	0	0.1	0	0	0
Sapphirina auronitens	0	0.3	0	0	0	0.2
Sapphirina maculosa	0	0	0	0	0.1	0
Sapphirina metallina	0	0	0	0	0	0.2
Sapphirina nigromaculata	0	0.3	0	0	1.1	0.9
Sapphirina ovatolanceolata	0	0	0.1	0	0	0.4
HARPACTICOIDA						
Clytemnestra scutellata	0	0.5	0.3	0	0.3	0.5
Macrosetella gracilis	0.5	1.1	7.1	0	0.1	0.7
Microsetella rosea	0	0	0.1	0	0	0
Miracia efferata	0	0	0.3	0	0	0
Benthic harpacticoid females	0	0	0	1.7	0	0

TABLE 8. CONT.'D

SEPTEMBER CRUISE

Transect	I			II		
Station	1	2	3	1	2	3
Average No./m^3	182.1	294.0	364.1	307.3	143.5	398.5
CALANOIDA						
Acartia danae	0	0	2.0	0	0.1	3.0
Acartia lilljeborgii	0.2	0	0	1.4	0	0
Acartia tonsa	0.7	0	0	0	0	0
Acrocalanus andersoni	0	0	0.3	0	0.1	2.1
Acrocalanus longicornis	0	0.5	1.6	0	2.4	0.8
Bradyidius arnoldi	0	0	0	0	0	0.2
Calanopia americana	3.5	17.1	0	1.8	0.1	0.5
Calanus tenuicornis	0	0	0.8	0	0	0.3
Calocalanus pavo	0.2	0.9	7.0	0	5.5	5.8
Calocalanus pavoninus	0	0.5	4.8	0	0.4	2.0
Calocalanus styliremis	0	0	0.6	0	0.2	0.2
Calocalanus sp. 2	0	0	0.2	0	0	0
Calocalanus sp. 3	0	0	0.3	0	0	0.2
Candacia curta	0	0	0.2	0	0.5	0.8
Candacia pachydactyla	0	0	0	0	0	0.2
Centropages caribbeanensis	0	0	0	0	0.2	0.2
Centropages velificatus	11.9	10.2	0	3.6	0.2	0.7
Clausocalanus arcuicornis	0	0	0.2	0	0	1.2
Clausocalanus furcatus	0	8.7	142.3	0.9	36.9	117.7

TABLE 8. CONT.'D

Clausocalanus jobei	0	0	13.4	0	0.1	33.2
Clausocalanus mastigophorus	0	0	0.2	0	0	0
Clausocalanus parapergens	0	0	0.2	0	0	2.2
Ctenocalanus vanus	0	0	0.2	0	0	3.0
Eucalanus pileatus	12.5	3.0	0.3	18.2	0.7	1.9
Euchaeta marina	0	0	0.7	0	0	1.0
Euchaeta media	0	0	0	0	0	0.2
Euchaeta paraconcinna	0	0	0	0	0.1	0.3
Haloptilus longicornis	0	0	1.9	0	0	0.3
Heterorhabdus papilliger	0	0	0	0	0	0.2
Ischnocalanus plumulosus	0	0	0.7	0	0	0.3
Labidocera aestiva	0.2	0	0	0	0	0
Lucicutia flavicornis	0	0	2.2	0	0	5.5
Lucicutia gaussae	0	0	0.2	0	0	0
Lucicutia paraclausi	0	0	0.2	0	0.2	0
Mecynocera clausii	0	0.2	8.6	0	0.2	3.0
Nannocalanus minor	0	0	1.6	0	0.3	4.7
Paracalanus aculeatus	2.0	42.2	8.5	50.9	12.6	13.6
Paracalanus crassirostris	0	0.4	0	0	0	0
Paracalanus indicus	13.9	32.6	0.2	9.6	0.1	1.6
Paracalanus quasimodo	49.7	21.9	1.8	23.6	2.2	0.3
Paracandacia bispinosa	0	0	0	0	0	0.2
Paracandacia simplex	0	0	0.5	0	0.3	0.6
Pleuromamma gracilis	0	0	0.2	0	0	0.7
Pleuromamma piseki	0	0	0.3	0	0	0.2
Scaphocalanus subcurtus	0	0	0	0	0	0.2

TABLE 8. CONT.'D

Scolecithricella dentata	0	0	0	0	0	0.2
Scolecithricella tenuiserrata	0	0	0	0	0	0.2
Scolecithrix danae	0	0	0.3	0	0	0.3
Stephos deichmannae	0	0	0.2	0	0	0
Temora stylifera	0.5	3.7	0.3	0.9	2.2	1.2
Temora turbinata	69.2	24.3	0.9	174.2	0.4	1.5
Temoropia mayumbaensis	0	0	0	0	0	0.6
Undinula vulgaris	0	0	0.8	0	2.4	0.5
CYCLOPOIDA						
Copilia mirabilis	0	0.2	0.7	0	0.3	1.0
Corycaeus amazonicus	4.2	9.9	0.2	8.7	0	1.0
Corycaeus americanus	0.2	0.5	0	2.3	0	0.2
Corycaeus clausi	0	0	0.3	0	0	0.3
Corycaeus furcifer	0	0	0	0	0	0.3
Corycaeus giesbrechti	9.5	17.2	1.6	11.0	1.0	4.8
Corycaeus latus	0	0	0.7	0	0.5	1.0
Corycaeus limbatus	0	0	0	0	0	0.5
Corycaeus speciosus	0	0.2	0.7	0	0.5	1.2
Corycaeus typicus	0	0	0	0	0	0.2
Farranula gracilis	0	9.6	20.8	0.5	36.2	21.5
Lichomolgus sp.1	0.3	0	0.2	0	0	0.2
Lubbockia squillimana	0	0	0.8	0	0	0.2
Mormonilla minor	0	0	0	0	0	0.5
Oithona hamata	0	0	0	0	0	1.2
Oithona nana	0.4	1.1	0	0	0	0
Oithona plumifera	1.7	12.5	71.1	0	24.8	37.1
Oithona robusta	0	0	0.7	0	0	0.2

TABLE 8. CONT.'D

Oithona setigera	0	0	9.9	0	0	8.7
Oithona simplex	0	0.2	0	0	0	0
Oithona tenuis	0	0	3.0	0	0	0.8
Oithona sp. 1	0	0	0.7	0	0	0.9
Oncaea conifera	0	0	0.2	0	0	4.7
Oncaea media	0	0	1.4	0	0	0.5
Oncaea mediterranea	0	0	13.8	0	1.4	40.6
Oncaea venusta	0.2	73.6	32.5	0	10.7	57.6
Sapphirina auronitens	0	0	0	0	0	0.2
Sapphirina metellina	0	0	0	0	0	0.2
Sapphirina nigromaculata	0	0	0	0	0.3	1.0
Sapphirina ovatolanceolata	0	0	0	0	0.2	0.2
HARPACTICOIDA						
Clytemnestra rostrata	0	0	0.2	0	0	0
Clytemnestra scutellata	0	0	0.3	0	0	0.3
Macrosetella gracilis	1.2	1.3	1.1	0	0.1	0.2
Benthic harpacticoid females	0.5	2.2	0	0	0	0

TABLE 8. CONT.'D

Transect	III			IV		
Station	1	2	3	1	2	3
Average No./m^3	1970.8	768.7	978.7	801.4	327.3	303.2
CALANOIDA						
Acartia danae	0	1.7	1.3	0	0.7	1.1
Acartia lilljeborgii	2.6	0	0	0	0	0
Acrocalanus andersoni	0	1.6	2.7	0	0	0
Acrocalanus longicornis	0	5.3	6.2	8.7	4.5	2.4
Calanopia americana	10.2	0.4	2.7	2.5	0	0
Calanus tenuicornis	0	0	0	0	0	0.5
Calocalanus pavo	0	5.2	8.7	40.5	2.5	8.1
Calocalanus pavoninus	0	0.4	2.6	1.5	3.1	2.1
Calocalanus styliremis	0	0	0.9	0	0.8	0.6
Calocalanus sp. 3	0	0	0	0	0	0.2
Candacia curta	0	1.3	2.3	0	0	0
Centropages caribbeanensis	0	0	0	0	0	0.2
Centropages velificatus	0	4.8	2.7	1.5	3.3	0.2
Clausocalanus arcuicornis	0	0	0.5	0	0	0.2
Clausocalanus furcatus	2.5	262.5	281.3	344.9	139.7	82.7
Clausocalanus jobei	0	71.4	22.4	0	0.5	1.2
Clausocalanus mastigophorus	0	0	0	0	0.2	0
Ctenocalanus vanus	0	2.8	0	0	0	1.2

TABLE 8. CONT.'D

Eucalanus pileatus	20.6	8.7	7.1	1.0	5.5	0
Euchaeta marina	0	0	0	1.0	0.9	0.2
Euchaeta paraconcinna	0	1.6	0.9	0	0	0.2
Haloptilus longicornis	0	0	0	0	0	0.9
Ischnocalanus plumulosus	0	0.8	0.5	0	0	0
Lucicutia flavicornis	0	0.8	0	0	0	1.1
Lucicutia gaussae	0	0	0.9	0	0	0.2
Lucicutia paraclausi	0	13.8	1.4	0	0	0
Mecynocera clausii	0	0.9	0.5	0	0.5	3.3
Nannocalanus minor	0	2.9	26.2	8.8	5.9	1.1
Neocalanus gracilis	0	0	0	0	0	0.3
Paracalanus aculeatus	32.9	38.6	47.6	34.4	31.0	7.8
Paracalanus crassirostris	33.2	0	0	0	0	0
Paracalanus indicus	634.5	1.6	2.3	0	0	0.3
Paracalanus quasimodo	486.5	36.9	13.4	1.0	16.3	1.2
Paracandacia bispinosa	0	0	0	0	0	0.3
Paracandacia simplex	0	0	1.4	0	0.3	0.2
Parundinella spinodenticula	0	0.4	0	0	0	0
Scolecithricella tenuiserrata	0	0	0	0	0	0.2
Scolecithrix danae	0	0	0	0	0.3	1.7
Temora stylifera	0	4.1	5.0	3.1	4.5	1.2
Temora turbinata	316.0	12.5	1.3	0	0	0.2
Undinula vulgaris	0	1.3	2.7	14.4	13.6	0
CYCLOPOIDA						
Copilia mirabilis	0	1.3	1.4	1.4	0.6	0.2
Corycaeus amazonicus	2.6	1.2	0.9	0.6	0.6	0

TABLE 8. CONT.'D

Corycaeus americanus	2.5	0.4	0	0	0	0
Corycaeus flaccus	0	0.4	0	0	0	0
Corycaeus giesbrechti	10.2	13.2	14.2	7.0	2.9	1.1
Corycaeus latus	0	0	0.9	3.0	1.5	0.2
Corycaeus lautus	0	0	0	0	0	0.2
Corycaeus speciosus	0	0.8	2.7	4.5	0.3	0.3
Farranula gracilis	0	79.9	248.7	129.4	64.9	67.0
Lichomolgus sp. 1	2.5	1.2	0	0	0	0
Lubbockia squillimana	0	0.4	0	0	0	0
Oithona nana	5.1	0	0	0	0.3	0
Oithona plumifera	7.7	30.3	32.4	13.2	17.2	49.6
Oithona robusta	0	0	0.5	0	0	1.1
Oithona setigera	0	0	3.5	0	0	6.4
Oithona simplex	312.7	0	0	0	0	0
Oithona tenuis	0	0.4	0.5	0	0	2.0
Oithona sp. 1	0	0	0	0	0	0.2
Oncaea conifera	0	0.4	0	0	0	0
Oncaea media	5.1	0.8	0.4	3.0	0.2	2.6
Oncaea mediterranea	0	30.6	98.6	0	0.9	4.8
Oncaea venusta	7.7	123.4	126.7	176.7	3.8	46.2
Saphirella tropica	0	0	0	0	0	0.2
Saphirella sp.	5.1	0	0	0	0	0
Sapphirina angusta	0	0	0	0	0	0.2
Sapphirina lactens	0	0	0	0	0.2	0
Sapphirina maculosa	0	0	0	0	0	0.2
Sapphirina nigromaculata	0	1.6	1.3	0	0.2	0
Sapphirina ovatolanceolata	0	0	0	0	0.5	0

TABLE 8. CONT.'D

HARPACTICOIDA						
Clytemnestra rostrata	2.6	0	0	0	0	0
Clytemnestra scutellata	0	0.4	0	0	0	0
Macrosetella gracilis	0	0.4	0	0	0	1.2
Miracia efferata	0	0	0.5	0	0	0
Benthic harpacticoid females	68.3	0	0.5	0	0	0

TABLE 8. CONT.'D

TRANSECT II - NOVEMBER/DECEMBER CRUISE

Cruise	November			December		
Station	1	2	3	1	2	3
Average No./m^3	465.4	394.9	308.0	885.9	566.1	342.5
CALANOIDA						
Acartia danae	0	0	0.2	0	0	0.2
Acartia tonsa	0	0	0	1.3	0	0.4
Acrocalanus andersoni	0	1.3	0.2	0	0	0.7
Acrocalanus longicornis	0.7	2.6	1.5	0.5	1.7	1.9
Aetideus acutus	0	0.2	0.2	0	0	0.3
Calanopia americana	14.8	8.5	5.1	0.9	23.7	2.5
Calanus tenuicornis	0	0	0.2	0	1.2	0.3
Calocalanus pavo	0.5	1.5	2.1	0.5	2.3	3.6
Calocalanus pavoninus	0	4.0	0.5	2.6	3.8	0.2
Calocalanus styliremis	0.7	5.2	0.6	0	12.9	3.6
Calocalanus sp. 1	0	0	0	0	0.6	0
Calocalanus sp. 2	0	0	0	0	0.6	0
Calocalanus sp. 3	0	0	0.2	0	0.6	0
Calocalanus sp. 4	0	0	0	0	0.6	0.3
Candacia curta	0	0.8	1.4	0	1.2	0.2
Candacia pachydactyla	0	0	0.5	0	0	0.3
Centropages caribbeanensis	0	0	0	0	0.6	0
Centropages hamatus	0	0	0	0	0	0.4
Centropages velificatus	17.7	0.5	0	14.1	5.6	0.2

TABLE 8. CONT.'D

Clausocalanus arcuicornis	0	0.2	0.4	0	0.6	2.1
Clausocalanus furcatus	14.8	82.1	127.8	12.3	119.1	77.3
Clausocalanus jobei	1.1	1.8	8.8	0	6.7	9.1
Clausocalanus mastigophorus	0	0	0.5	0	2.8	0.9
Clausocalanus parapergens	0	0	0	0	0	3.6
Clausocalanus paululus	0	0	0	0	0	0.2
Clausocalanus pergens	0	0	0	0	0	1.0
Ctenocalanus vanus	0	0.2	0.1	0	0.6	4.1
Euaugaptilus hecticus	0	0	0	0	0	0.2
Eucalanus monachus	0	0	0	0	0	0.4
Eucalanus pileatus	30.7	4.5	2.5	4.0	1.2	3.4
Euchaeta marina	0	0.8	0.4	0	0	1.0
Euchaeta media	0	0	0	0	0	0.2
Euchaeta paraconcinna	0	0.3	0.2	0	2.2	0.7
Haloptilus longicornis	0	0	0.2	0	0	2.5
Heterorhabdus papilliger	0	0	0	0	0	0.7
Heterorhabdus spinifer	0	0	0	0	0	0.3
Ischnocalanus plumulosus	0	0	0.5	0	0.6	0.7
Labidocera aestiva	0	0	0	1.8	0	0.2
Lucicutia flavicornis	0	0.6	2.0	0	5.6	4.6
Lucicutia gaussae	0	0	0.2	0	0	0.2
Lucicutia paraclausi	0	1.6	0.1	0	5.5	0.7
Mecynocera clausii	0	0.4	0.3	0	1.2	1.0
Nannocalanus minor	0.5	5.7	4.7	0	3.4	5.8
Paivella inaciae	0	0	0	0	0	0.2
Paracalanus aculeatus	51.5	22.4	25.9	35.6	45.8	31.2

TABLE 8. CONT.'D

Paracalanus crassirostris	0.5	0	0	0.9	0	0
Paracalanus denudatus	0	0.3	0	0	0	0.2
Paracalanus indicus	87.6	50.4	15.8	412.0	86.7	24.8
Paracalanus quasimodo	56.7	43.0	6.7	156.1	17.0	4.4
Paracandacia bispinosa	0	0	0	0	0	0.2
Paracandacia simplex	0	0	0.7	0	0	0.3
Pleuromamma abdominalis	0	0	0	0	0	0.2
Pleuromamma gracilis	0	0	0.1	0	0	1.1
Pleuromamma piseki	0	0	0	0	0	0.7
Rhincalanus cornutus	0	0	0	0	0	0.5
Scaphocalanus subcurtus	0	0	0.2	0	0	0.9
Scolecithricella dentata	0	0	0	0	0	1.5
Scolecithricella tenuiserrata	0	0	0	0	0	0.2
Scolecithrix bradyi	0	0	0	0	0.6	0
Scolecithrix danae	0	0	0	0	0	0.5
Stephos deichmannae	0.7	0.8	0	0	0	0
Temora stylifera	0	1.1	1.7	0	2.2	1.0
Temora turbinata	27.0	20.4	7.9	125.3	45.1	14.1
Temoropia mayumbaensis	0	0	0	0	0	1.3
Undinula vulgaris	0	2.2	2.0	0	0.6	1.2
CYCLOPOIDA						
Copilia mirabilis	0	0	0.2	0	0	0.2
Corycaeus amazonicus	96.0	2.7	0.5	27.7	3.4	0.8
Corycaeus americanus	13.6	0.2	0	12.8	1.2	0.3
Corycaeus clausi	0	0	0.1	0	0	0
Corycaeus flaccus	0	0	0.5	0	0.6	0
Corycaeus furcifer	0	0	0	0	0	0.2

TABLE 8. CONT.'D

Corycaeus giesbrechti	23.7	11.0	5.3	38.2	10.5	4.8
Corycaeus latus	0	0.3	0.2	0	1.1	0.5
Corycaeus lautus	0	0	0.1	0	0	0.2
Corycaeus limbatus	0	0	0.1	0	0.6	0.7
Corycaeus minimus	0	0	0.2	0	0	0
Corycaeus speciosus	0	1.0	1.2	0	1.2	0.5
Corycaeus typicus	0	0	0	0	0.6	0.4
Farranula gracilis	0.7	54.5	6.3	0	14.8	16.9
Lichomolgus sp. 1	0	0.7	0	0	3.5	0.2
Lubbockia squillimana	0	0.3	0.2	0	0.6	0.7
Oithona hamata	0	0	0	0	0	3.8
Oithona nana	4.9	0.2	0	6.6	0	0
Oithona plumifera	15.1	31.6	14.7	16.2	50.8	18.0
Oithona robusta	0	0	0.1	0	0	0.3
Oithona setigera	0.7	0	1.7	0	1.7	10.2
Oithona tenuis	0	0.4	0.5	0	1.1	0.7
Oithona sp. 1	0	0.2	0.1	0	0	0.2
Oncaea conifera	0	0.4	1.4	0	0	2.6
Oncaea media	0	0.3	0.7	0	1.1	3.1
Oncaea mediterranea	0.7	9.5	22.8	1.8	16.6	16.3
Oncaea venusta	4.7	11.9	28.2	6.1	39.9	39.9
Saphirella tropica	0	0	0.1	0	0	0
Sapphirina nigromaculata	0	0.3	0.1	0	0.6	0.5
Sapphirina ovatolanceolata	0	0	0.1	0	0	0
Sapphirina stellata	0	0	0.1	0	0	0

TABLE 8. CONT.'D

Siphonostomata sp. 1	0	0	0	0	0	0.2
HARPACTICOIDA						
Clytemnestra rostrata	0	0	0	0.9	0.6	0
Clytemnestra scutellata	0	0	0.2	0	0	0.3
Macrosetella gracilis	0.5	5.6	1.1	0.5	13.4	2.0
Benthic harpacticoid females	0.5	0.8	0	7.9	1.2	0

TABLE 9
PERCENTAGE COMPOSITION OF ADULT FEMALE COPEPODS
MEAN OF TWO SAMPLES PER STATION

JANUARY/FEBRUARY CRUISE

Transect	I			II		
Station	1	2	3	1	2	3
CALANOIDA						
Acartia danae	0	0	0	0	0.2	0.3
Acartia tonsa	3.3	16.3	0	2.9	9.0	0
Acrocalanus andersoni	0	0.5	2.3	0	0.6	2.4
Acrocalanus longicornis	0	0	0.1	0	0	0.2
Aetideus acutus	0	0	0.2	0	0.2	0.1
Calanopia americana	0	0.6	0.1	0	0.7	0
Calanus tenuicornis	0	0.1	0.8	0	0.3	1.0
Calocalanus elegans	0	0	0	0	0	0.1
Calocalanus pavo	0	0	0.6	0	0	0.6
Calocalanus pavoninus	0	0	0	0	0.2	0.6
Calocalanus styliremis	0	0.1	0	0	0.2	0.6
Calocalanus sp. 1	0	0	0	0	0	0.2
Calocalanus sp. 2	0	0	0	0	0	0.1
Calocalanus sp. 3	0	0.1	0	0	0	0.6
Calocalanus sp. 4	0	0	0	0	0	0.2
Candacia curta	0	0.3	0	0	0.2	0
Candacia pachydactyla	0	0	0.1	0	0	0
Centropages hamatus	2.9	0.3	0	1.4	0	0
Centropages velificatus	0.3	0.6	0.2	0.1	1.7	0.2
Clausocalanus arcuicornis	0	0.1	0.6	0	0.3	1.7

TABLE 9. CONT.'D

Clausocalanus furcatus	2.3	3.3	16.8	1.5	2.0	9.2
Clausocalanus jobei	0	1.2	2.3	0.1	0.3	1.3
Clausocalanus mastigophorus	0	0.1	0.4	0	0	0.3
Clausocalanus parapergens	0	0	1.6	0	0.2	2.7
Clausocalanus paululus	0	0.4	0	0	0.2	0.6
Clausocalanus pergens	0	0	0	0	0	0.1
Ctenocalanus vanus	0	0.9	2.0	0.1	0.7	6.1
Eucalanus hyalinus	0	0	0.3	0	0	0.7
Eucalanus monachus	0	0	0	0	0.3	0
Eucalanus pileatus	0.2	2.2	2.3	0	6.1	1.1
Eucalanus sewelli	0	0	0.4	0	0.2	0
Euchaeta marina	0	0	0.8	0	0.2	0.1
Euchaeta paraconcinna	0	0.7	0.2	0	0.9	0
Euchirella rostrata	0	0	0.1	0	0	0
Haloptilus longicornis	0	0	0	0	0	0.1
Ischnocalanus plumulosus	0	0	0	0	0.2	0
Labidocera aestiva	0.3	0.3	0	0.1	1.2	0
Lucicutia flavicornis	0	1.3	3.2	0.1	0.4	7.2
Lucicutia gaussae	0	0	0	0	0	0.2
Lucicutia paraclausi	0	0.1	0	0	0.3	0
Mecynocera clausii	0	0.1	0.1	0	0	0.4
Nannocalanus minor	0	0.3	5.2	0	2.1	2.7
Neocalanus gracilis	0	0	0.1	0	0	0.1
Neocalanus robustior	0	0	0.1	0	0	0
Paivella inaciae	0	0	0	0	0	0.1
Paracalanus aculeatus	0.7	2.3	5.9	0.6	8.1	3.4

TABLE 9. CONT.'D

Paracalanus crassirostris	14.1	0.5	0	0.8	0.2	0
Paracalanus denudatus	0	0	0	0	0	0.1
Paracalanus indicus	27.0	19.3	5.8	23.4	7.7	2.2
Paracalanus quasimodo	28.5	20.1	3.1	59.9	9.3	0.9
Paracalanus nudus	0	0	0	0	0	0.1
Paracandacia bispinosa	0	0	0.4	0	0	0.3
Paracandacia simplex	0	0	0.5	0	0.3	0.1
Parundinella spinodenticula	0	0.1	0	0	0	0
Pleuromamma abdominalis	0	0	0	0	0	0.1
Pleuromamma gracilis	0	0	0.4	0	0	2.2
Pleuromamma piseki	0	0	0.1	0	0	2.0
Rhincalanus cornutus	0	0	0.2	0	0.8	0.3
Scaphocalanus brevirostris	0	0	0.1	0	0	0
Scaphocalanus subcurtus	0	0	0	0	0	0.7
Scolecithricella dentata	0	0	0.1	0	0	0.2
Scolecithricella tenuiserrata	0	0	0.2	0	0.3	0.2
Scolecithrix bradyi	0	0	0.1	0	0	0.6
Scolecithrix danae	0	0	0.6	0	0	0.8
Stephos deichmannae	0	0	0	0.3	0.3	0
Temora stylifera	0	0.1	0.4	0	0.3	0.7
Temora turbinata	0.9	1.7	11.1	1.9	3.6	4.9
Temoropia mayumbaensis	0	0.1	0	0	0	0.6
Undinula vulgaris	0	0	0.4	0	0	0.2
CYCLOPOIDA						
Copilia lata	0	0.1	0.1	0	0	0
Copilia mirabilis	0	0	0	0	0.3	0

TABLE 9. CONT.'D

Corissa parva	0	0	0	0	0	0.1
Corycaeus amazonicus	0.3	0.9	0.1	0.5	1.0	0.1
Corycaeus americanus	6.4	1.2	0.1	3.5	1.0	0
Corycaeus clausi	0	0	0.7	0	0.2	0.3
Corycaeus flaccus	0	0.1	0.2	0	0.2	0.1
Corycaeus giesbrechti	0	0	0.4	0	0.8	0
Corycaeus latus	0	0	0.2	0	0	0.4
Corycaeus lautus	0	0	0.2	0	0	0.1
Corycaeus limbatus	0	0.1	0.2	0	0	0.2
Corycaeus minimus	0	0.1	0	0	0	0.1
Corycaeus speciosus	0	0.1	0.2	0	0.4	0.3
Corycaeus typicus	0	0	0	0	0.4	0.4
Farranula gracilis	0	0	4.3	0	0	0.6
Farranula rostrata	0	0.1	0	0	0	0.3
Lichomolgus sp.1	0	0.2	0	0	0	0
Lubbockia squillimana	0	0.5	0.3	0	0.2	0.8
Oithona decipiens	1.0	0.1	0	0	0	0
Oithona fallax	0	0	0	0	0	0.2
Oithona nana	2.6	0.5	0	0.6	0.3	0.1
Oithona plumifera	1.3	5.4	4.3	0.2	21.2	6.6
Oithona robusta	0	0	0	0	0.6	0
Oithona setigera	0.1	1.5	1.0	0	0.4	1.2
Oithona similis	0	0.2	0	0	0	0
Oithona tenuis	0	0.2	0.5	0	0	0.4
Oithona vivida	0	0.3	0	0	0	0.1
Oithona sp. 1	0.3	0.8	0.2	0.1	0.2	0.5
Oithona sp. 3	0	0.1	0	0	0	0

TABLE 9. CONT.'D

Oithona sp. 4	0	0	0	0	0	0.3
Oncaea conifera	0	0.2	0.5	0	0.8	2.3
Oncaea dentipes	0	0.3	0	0	0.2	0
Oncaea media	0.3	1.7	0.2	0.8	3.9	1.7
Oncaea mediterranea	0.2	5.6	10.5	0.2	10.6	16.6
Oncaea venusta	0	1.8	6.0	0.1	9.1	4.1
Oncaea similis	0	0	0	0	0	0.1
Paroithona sp.	0	0.1	0	0	0	0
Sapphirina metallina	0	0	0.2	0	0	0.3
Sapphirina nigromaculata	0.1	0.1	0	0	0	0
Sapphirina opalina	0	0	0	0	0.2	0.1
Sapphirina stellata	0	0	0.1	0	0	0
HARPACTICOIDA						
Clytemnestra rostrata	0.1	0.5	0	0	0.3	0
Clytemnestra scutellata	0	0	0	0	0.3	0.2
Macrosetella gracilis	0	0.3	0.1	0	0.7	0.2
Benthic harpacticoid females	7.6	3.1	0.1	1.0	1.4	0.1

TABLE 9. CONT.'D

Transect	III			IV		
Station	1	2	3	1	2	3
CALANOIDA						
Acartia danae	0	0.5	0.1	0	0	0.3
Acartia tonsa	0.4	0	0	0.2	0.3	0
Acrocalanus andersoni	0	1.1	0.1	0	0.3	3.6
Acrocalanus longicornis	0	0.2	0	0	0	0
Aetideus acutus	0	0.4	0	0	0	0.3
Calanopia americana	0	0	0.2	0	0.6	0
Calanus tenuicornis	0	0.7	0.2	0	0	1.7
Calocalanus elegans	0	0	0	0	0	0.1
Calocalanus pavo	0	0.5	0	0	0	1.1
Calocalanus pavoninus	0	0.6	0	0	0	1.0
Calocalanus styliremis	0.2	0.5	0.3	0	0.6	0.5
Calocalanus sp. 1	0	0	0	0	0	0.4
Calocalanus sp. 2	0	0.1	0	0	0	0.8
Calocalanus sp. 3	0	0.5	0.1	0	0	0.6
Calocalanus sp. 4	0	0.3	0	0	0	0.5
Candacia curta	0.2	0.1	0	0.1	0	0.1
Centropages caribbeanensis	0	0	0.1	0	0	0
Centropages hamatus	0.8	0	0	0.6	0	0
Centropages velificatus	1.4	0	0.1	1.1	1.0	0.1
Clausocalanus arcuicornis	0	1.6	0.6	0	0.2	1.6
Clausocalanus furcatus	2.7	9.3	15.9	3.5	3.5	6.5

TABLE 9. CONT.'D

Clausocalanus jobei	0	0.7	0.5	0	0.6	0.9
Clausocalanus mastigophorus	0	0.2	0.3	0	0.1	0.3
Clausocalanus parapergens	0	1.0	0.9	0	0.1	0.8
Clausocalanus paululus	0	0.1	0	0	0	0.7
Ctenocalanus vanus	0	3.3	1.4	0.1	0.6	3.9
Eucalanus hyalinus	0	1.1	0	0	0	1.2
Eucalanus pileatus	2.1	2.3	1.8	0	5.0	1.3
Eucalanus sewelli	0	0.2	0.2	0	0	0.2
Euchaeta marina	0	0.1	0.4	0	0.1	0.1
Euchaeta media	0	0	0.1	0	0	0
Euchaeta paraconcinna	0	0	0	0	0.8	0.5
Euchirella rostrata	0	0	0	0	0	0.1
Haloptilus austini	0	0	0	0	0	0.1
Haloptilus longicornis	0	0	0.1	0	0	0.5
Haloptilus ornatus	0	0	0	0	0	0.1
Heterorhabdus spinifer	0	0	0.1	0	0	0
Ischnocalanus plumulosus	0	0.2	0	0	0	0.1
Lucicutia flavicornis	0	3.5	0.6	0	0.3	11.5
Lucicutia gaussae	0	0.4	0	0	0	0.5
Lucicutia paraclausi	0	0	0	0	0.4	0
Mecynocera clausii	0	0.6	0.3	0	0	1.4
Nannocalanus minor	0	2.9	5.3	0	1.1	2.2
Neocalanus gracilis	0	0	0	0	0	0.1
Paracalanus aculeatus	0.2	7.3	3.4	0.3	2.5	2.7
Paracalanus crassirostris	0.2	0	0	0.3	0	0
Paracalanus denudatus	0	0	0.1	0	0	0.1
Paracalanus indicus	6.3	2.5	5.9	35.8	50.1	0.6

TABLE 9. CONT.'D

Paracalanus quasimodo	66.4	1.6	27.2	49.6	8.4	0.5
Paracandacia bispinosa	0	0.3	0.1	0	0	0.3
Paracandacia simplex	0	0.1	0	0	0	0.4
Parundinella spinodenticula	0	0	0	0	0.4	0
Pleuromamma abdominalis	0	0	0	0	0	0.1
Pleuromamma gracilis	0	0.2	0	0	0	0
Pleuromamma piseki	0	0.2	0	0	0	0
Pontellina plumata	0	0	0.1	0	0	0
Rhincalanus cornutus	0	1.3	0	0.1	0	0.6
Scaphocalanus subcurtus	0	0.1	0	0	0	0
Scolecithricella ctenopus	0	0	0	0	0	0.2
Scolecithricella tenuiserrata	0	0.2	0	0	0	0.6
Scolecithrix bradyi	0	0	0	0	0.1	0.1
Scolecithrix danae	0	0.9	0.2	0	0	0.5
Stephos deichmannae	0	0	0	0	0.4	0
Temora stylifera	0	0.3	0.1	0	0.2	0.5
Temora turbinata	4.6	9.0	15.9	6.0	4.2	0.1
Temoropia mayumbaensis	0	0	0	0	0.2	0
Undinula vulgaris	0	1.0	0.3	0	0.1	0.1
CYCLOPOIDA						
Copilia lata	0	0.1	0	0	0.1	0.4
Copilia mirabilis	0	0	0.3	0	0	0.1
Copilia quadrata	0	0	0	0	0	0.1
Corycaeus amazonicus	2.6	0.1	0.3	0.7	1.4	0.1
Corycaeus americanus	9.0	0	0	0.9	1.1	0.1
Corycaeus clausi	0	0.8	0.1	0	0	0.1

TABLE 9. CONT.'D

Corycaeus flaccus	0	0.1	0	0	0.1	0.3
Corycaeus furcifer	0	0.1	0	0	0	0.1
Corycaeus giesbrechti	0	1.7	0.7	0.1	1.0	0.4
Corycaeus latus	0	0.2	0.5	0	0.3	0.2
Corycaeus lautus	0	0.1	0	0	0	0.1
Corycaeus limbatus	0	0	0	0	0	0.6
Corycaeus minimus	0	0.2	0	0	0	0.2
Corycaeus speciosus	0	0.5	0.2	0	0.2	0.5
Corycaeus typicus	0	0.5	0	0.1	0	0.5
Farranula gracilis	0	0.7	3.6	0	0.6	0.5
Farranula rostrata	0	0.3	0	0.1	0	0.4
Lichomolgus sp. 1	0	0	0	0	0	0.1
Lubbockia squillimana	0	0.9	0.1	0	0	0.9
Oithona decipiens	0	0.1	0.1	0	0	0.1
Oithona nana	0.1	0	0	0	0	0.3
Oithona plumifera	0.7	7.2	2.0	0	3.9	8.6
Oithona robusta	0	0.1	0	0	0	0.2
Oithona setigera	0	1.1	0.1	0.1	0	3.1
Oithona tenuis	0	1.4	0.5	0	0	1.2
Oithona vivida	0	0	0	0	0	0.1
Oithona sp. 1	0	0.8	0.1	0	0.3	1.0
Oithona sp. 2	0	0	0	0	0	0.1
Oithona sp. 4	0	0	0	0	0	0.1
Oncaea conifera	0	0.4	0.1	0	0.2	0.8
Oncaea media	0.6	1.3	0.7	0.1	0	1.2
Oncaea mediterranea	0.2	16.1	3.2	0.2	2.4	16.1
Oncaea venusta	0	7.5	4.6	0.2	3.4	9.1

TABLE 9. CONT.'D

Oncaea similis	0	0	0	0	0	0.1
Sapphirina auronitens	0	0.1	0	0	0	0
Sapphirina metellina	0	0.1	0	0	0	0.1
Sapphirina nigromaculata	0	0	0.1	0	0	0
Sapphirina opalina	0	0	0	0	0	0.1
Siphonostomata sp. 1	0	0	0	0	0	0.1
Vettoria granulosa	0	0	0.1	0	0	0
HARPACTICOIDA						
Clytemnestra rostrata	0	0	0	0	0.3	0
Clytemnestra scutellata	0	0.1	0	0.1	0	0.1
Macrosetella gracilis	0.5	0.2	0.1	0.1	3.5	0.7
Benthic harpacticoid females	1.5	0.2	0.1	0.3	0	0.1

TABLE 9. CONT.'D

TRANSECT II - MARCH/APRIL CRUISE

Cruise	March			April		
Station	1	2	3	1	2	3
CALANOIDA						
Acartia danae	0	0.1	0.3	0	0.1	0.3
Acartia tonsa	20.8	0	0	13.7	26.1	0
Acrocalanus andersoni	0	0	0.3	0	0	0.2
Aetideus acutus	0	0	0.2	0	0	0
Calanopia americana	0	0.6	0.2	0	0	0.1
Calanus tenuicornis	0	0.2	0.2	0	0	0.2
Calocalanus pavo	0	0.3	0.3	0	0.3	1.9
Calocalanus pavoninus	0	0.3	0.3	0	0.3	0.4
Calocalanus styliremis	0	0.2	0.5	0	0.2	0.4
Calocalanus sp. 1	0	0	0.1	0	0	0
Calocalanus sp. 2	0	0	0.1	0	0	0.1
Calocalanus sp. 3	0	0	0.2	0	0	0.1
Calocalanus sp. 4	0	0	0	0	0	0.1
Candacia bipinnata	0	0	0	0	0.1	0
Candacia curta	0	0.1	0.1	0	0.3	0.1
Candacia pachydactyla	0	0.1	0	0	0	0.1
Centropages hamatus	0.4	0	0	0.1	0	0
Centropages velificatus	0.1	0.9	0.3	0.2	0.8	0.2
Clausocalanus arcuicornis	0	0.5	2.7	0	0.1	2.4
Clausocalanus furcatus	0.9	13.8	18.8	0.5	6.2	27.0

TABLE 9. CONT.'D

Clausocalanus jobei	0.7	0.7	4.7	0	0	4.1
Clausocalanus mastigophorus	0	0.3	1.0	0	0.2	0.6
Clausocalanus parapergens	0	0	6.6	0	0	2.0
Clausocalanus paululus	0	0	0.2	0	0	0
Clausocalanus pergens	0	0	1.4	0	0	0
Ctenocalanus vanus	0	2.7	7.4	0	0	1.3
Eucalanus pileatus	0.1	0.8	0.5	0.2	1.1	1.0
Eucalanus sewelli	0	0	0.2	0	0	0.1
Euchaeta marina	0	0.2	0.4	0	0.4	0.2
Euchaeta paraconcinna	0	0.5	0.3	0	0.1	0.4
Haloptilus longicornis	0	0	0.2	0	0	0.3
Ischnocalanus plumulosus	0	0.3	0.2	0	0.1	0.7
Labidocera aestiva	0.1	0	0	2.6	0.7	0
Lucicutia flavicornis	0	0.9	1.8	0	0	1.3
Lucicutia gaussae	0	0	0	0	0	0.1
Lucicutia gemina	0	0	0.1	0	0	0
Lucicutia paraclausi	0	0.1	0.9	0	0	0
Mecynocera clausii	0	0.1	0.4	0	0	0.3
Nannocalanus minor	0	0.7	4.3	0	2.1	4.7
Neocalanus gracilis	0	0	0.2	0	0.1	0
Paivella inaciae	0	0	0.2	0	0	0
Paracalanus aculeatus	0.2	0.5	2.0	0	1.5	4.2
Paracalanus crassirostris	0	0	0	0.2	0	0
Paracalanus indicus	5.2	10.0	1.4	2.7	6.0	1.5
Paracalanus quasimodo	66.5	43.6	2.4	77.5	44.4	2.7
Paracandacia simplex	0	0.1	0	0	0	0.5
Parundinella spinodenticula	0	0	0.2	0	0	0

TABLE 9.CONT.'D

Phaenna spinifera	0.1	0	0	0	0	0
Pleuromamma gracilis	0	0	0.4	0	0	0
Pleuromamma piseki	0	0	0.6	0	0	0
Rhincalanus cornutus	0	0.1	0.4	0	0	0
Pseudodiaptomus sp. 1	0	0	0	0.1	0	0
Pseudodiaptomus sp. 2	0	0	0	0.1	0	0
Scaphocalanus subcurtus	0	0	0.9	0	0	0
Scolecithricella ctenopus	0	0	0.1	0	0	0.1
Scolecithricella dentata	0	0	0.2	0	0	0
Scolecithricella tenuiserrata	0	0	0	0	0	0.1
Scolecithrix bradyi	0	0	0	0	0	0.1
Scolecithrix danae	0	0.5	1.4	0	0.3	1.0
Stephos deichmannae	0	0.5	0	0	0	0
Temora stylifera	0	0.4	1.2	0.3	1.2	0.7
Temora turbinata	0.9	0.3	0.5	0.1	0	0.2
Temoropia mayumbaensis	0	0	0.5	0	0	0
Undinula vulgaris	0	0	0.2	0	0.4	0.7
CYCLOPOIDA						
Copilia lata	0	0	0.1	0	0	0.1
Copilia mirabilis	0	0	0.2	0	0	0.1
Corissa parva	0	0	0.1	0	0	0
Corycaeus amazonicus	1.5	0.7	0.4	0.1	0.4	0.3
Corycaeus americanus	2.0	1.8	0.3	1.8	0.2	0.3
Corycaeus clausi	0	0	0.2	0	0	0.1
Corycaeus flaccus	0	0.1	0.1	0	0	0
Corycaeus giesbrechti	0.1	0.8	0.8	0	0.3	0.4
Corycaeus latus	0	0	0	0	0	0.3

TABLE 9. CONT.'D

Corycaeus lautus	0	0	0.1	0	0	0.1
Corycaeus limbatus	0	0	0.2	0	0	0
Corycaeus minimus	0	0	0.1	0	0	0
Corycaeus speciosus	0	0.1	0.2	0	0.1	0.2
Corycaeus typicus	0	0	0.3	0	0	0.1
Farranula gracilis	0	6.3	2.5	0	1.3	2.2
Farranula rostrata	0	0.1	0.1	0	0	0.1
Lichomolgus sp. 1	0	1.6	0	0	0	0
Lubbockia squillimana	0	0	0.2	0	0	0.1
Oithona fallax	0	0	0.1	0	0	0.1
Oithona plumifera	0.2	4.2	5.3	0	0.9	5.1
Oithona robusta	0	0	0.1	0	0	0.1
Oithona setigera	0	0.3	3.3	0	0	0.8
Oithona tenuis	0	0.1	0.5	0	0	0.3
Oithona vivida	0	0	0	0	0	1.8
Oithona sp. 1	0	0.1	0.4	0	0	0.3
Oncaea conifera	0	1.0	1.0	0	0	1.4
Oncaea media	0.1	0.1	0.6	0	0.1	1.0
Oncaea mediterranea	0	1.4	10.3	0	2.4	18.9
Oncaea venusta	0.1	0.9	5.8	0.1	2.1	4.3
Sapphirina metallina	0	0.1	0	0	0	0
Sapphirina nigromaculata	0.1	0	0	0	0	0
HARPACTICOIDA						
Clytemnestra rostrata	0.1	0	0.1	0	0	0
Clytemnestra scutellata	0	0.1	0	0	0	0
Macrosetella gracilis	0	0.1	0.4	0	0.2	0.6
Benthic harpacticoid females	0.1	0.3	0	0.2	0	0

TABLE 9. CONT.'D

MAY/JUNE CRUISE

Transect	I			II		
Station	1	2	3	1	2	3
CALANOIDA						
Acartia danae	0	0	0.9	0.1	0.5	1.5
Acartia lilljeborgii	0	0	0	0	0.1	0
Acartia tonsa	1.1	0	0	0.5	0	0
Acrocalanus andersoni	0	0	0.1	0	0.2	0.3
Acrocalanus longicornis	0	0	0.1	0	0	0
Aetideus acutus	0	0	0.3	0	0	0.1
Calanus tenuicornis	0	0.2	0.4	0	0	0.6
Calocalanus pavo	0	0	3.0	0.2	0.4	4.4
Calocalanus pavoninus	0	0	0.5	0.2	0	0.6
Calocalanus styliremis	0	0	0.5	0	0	0.5
Calocalanus sp. 2	0	0	0	0	0	0.1
Calocalanus sp. 3	0	0	0.3	0	0	0.3
Calocalanus sp. 4	0	0	0.1	0	0	0.1
Candacia curta	0	0.1	0	0	0.2	0
Candacia pachydactyla	0	0	0	0	0	0.2
Centropages caribbeanensis	0	0	0.1	0	0	0.3
Centropages velificatus	29.4	25.7	0.5	49.0	27.8	8.6
Clausocalanus arcuicornis	0	0	1.1	0	0	0.3
Clausocalanus furcatus	0.1	3.8	11.4	5.6	1.2	12.4
Clausocalanus jobei	0	9.3	1.7	0	1.5	0.8
Clausocalanus mastigophorus	0	0	0.1	0	0	0

TABLE 9. CONT.'D

Clausocalanus parapergens	0	0	1.1	0	0	0
Clausocalanus pergens	0	0	0	0	0	0.1
Ctenocalanus vanus	0	0.3	4.4	0	0.1	1.7
Eucalanus hyalinus	0	0	0	0	0	0.1
Eucalanus monachus	0	0	0.1	0	0	0
Eucalanus pileatus	21.0	7.8	5.3	8.0	7.1	1.7
Eucalanus sewelli	0	0	0	0	0	0.1
Euchaeta marina	0	0	0.2	0	0	0.2
Euchaeta paraconcinna	0	0	0	0.1	0.6	0
Haloptilus longicornis	0	0.1	0.3	0	0	0.9
Haloptilus paralongicirrus	0	0	0.1	0	0	0
Haloptilus spiniceps	0	0	0.1	0	0	0
Heterorhabdus papilliger	0	0	0.2	0	0	0
Ischnocalanus plumulosus	0	0	0.6	0	0	0.1
Labidocera aestiva	0	0	0	0.4	0.2	0
Lucicutia flavicornis	0	0.2	2.2	0	0	1.3
Lucicutia gaussae	0	0	0.3	0	0	0.1
Lucicutia gemina	0	0	0.1	0	0	0
Lucicutia paraclausi	0	0.9	0	0	0.3	0
Mecynocera clausii	0	0.4	1.4	0	0	3.5
Nannocalanus minor	0	0.2	0.9	0	0.2	2.3
Neocalanus gracilis	0	0	0.2	0	0	0.1
Paivella inaciae	0	0	0.2	0	0	0.1
Paracalanus aculeatus	3.4	0.8	0.7	1.0	3.1	1.1
Paracalanus denudatus	0	0	0.1	0	0	0
Paracalanus indicus	7.0	10.8	0.5	1.5	14.1	3.4
Paracalanus quasimodo	23.5	8.1	2.9	7.7	11.9	4.3

TABLE 9. CONT.'D

Paracandacia simplex	0	0	0.1	0	0	0.1
Phaenna spinifera	0	0	0	0	0	0.1
Pleuromamma gracilis	0	0	0.1	0	0	0
Pleuromamma piseki	0	0	0.1	0	0	0
Pontellina plumata	0	0	0.1	0	0	0
Rhincalanus cornutus	0	0	0.4	0	0	0.1
Scaphocalanus subcurtus	0	0	0.3	0	0	0
Scolecithricella ctenopus	0	0	0.1	0	0	0
Scolecithricella dentata	0	0	0.1	0	0	0
Scolecithricella tenuiserrata	0	0	0.1	0	0	0
Scolecithrix bradyi	0	0	0.5	0	0	0
Scolecithrix danae	0	0	0.2	0.1	0.2	0.6
Stephos deichmannae	0	0	0	0	0.2	0
Temora stylifera	2.2	7.5	3.0	3.1	2.0	6.6
Temora turbinata	0.7	2.4	0.1	0.1	2.1	0
Temoropia mayumbaensis	0	0	0.1	0	0	0
Undinula vulgaris	0	0.2	0.1	0.3	0	0
CYCLOPOIDA						
Copilia lata	0	0	0	0	0	0.2
Copilia mirabilis	0	0	0	0	0	0.7
Copilia quadrata	0	0	0.1	0	0	0
Corissa parva	0	0	0.1	0	0	0.1
Corycaeus amazonicus	4.2	4.1	0.2	2.5	5.0	1.1
Corycaeus americanus	5.8	8.9	0.1	6.5	11.1	0.3
Corycaeus clausi	0	0	0.3	0	0	0.3
Corycaeus flaccus	0	0	0.2	0	0	0.2
Corycaeus furcifer	0	0	0.1	0	0	0
Corycaeus giesbrechti	0.2	0.5	0.5	0.1	0.2	1.1

TABLE 9. CONT.'D

Corycaeus latus	0	0	0.3	0	0	0
Corycaeus lautus	0	0	0.1	0	0	0.1
Corycaeus limbatus	0	0	0.5	0	0	0.3
Corycaeus minimus	0	0	0.1	0	0.1	0
Corycaeus speciosus	0	0	0.1	0.1	0	0.3
Corycaeus typicus	0	0	0	0	0	0.1
Farranula gracilis	0.4	0.9	13.0	0.6	0.4	3.6
Lichomolgus sp. 1	0	0	0	0	0.3	0
Lubbockia squillimana	0	0	0.5	0	0	0.3
Oithona decipiens	0	0	0.2	0	0	0
Oithona hamata	0	0	0.7	0	0	0
Oithona hebes	0	0	0	0	0.2	0
Oithona nana	0	0.1	0	0	0	0
Oithona plumifera	0.3	1.1	6.9	3.6	1.6	3.2
Oithona robusta	0	0	0.6	0	0	0.6
Oithona setigera	0	0.1	7.8	0	0.2	2.0
Oithona tenuis	0	0	0.8	0	0	0.7
Oithona vivida	0	0	0.1	0	0	0
Oithona sp. 1	0	0.2	0.7	0	0.4	0
Oncaea conifera	0	0.8	2.1	0	0.2	0.8
Oncaea media	0.2	0.1	0.4	0.4	0.4	0.4
Oncaea mediterranea	0	2.7	17.0	0	2.6	16.7
Oncaea venusta	0.3	1.5	0.9	8.0	4.1	1.4
Sapphirina auronitens	0	0	0.1	0	0	0
Sapphirina metallina	0	0	0.2	0	0	0
Sapphirina nigromaculata	0	0.2	0.1	0	0	0

TABLE 9. CONT.'D

HARPACTICOIDA						
Clytemnestra rostrata	0	0.2	0	0.3	0	0
Clytemnestra scutellata	0	0	0.2	0	0	0.1
Macrosetella gracilis	0.1	0.5	3.8	0.2	0.2	7.4
Benthic harpacticoid females	0.4	0.2	0	0	0.1	0

TABLE 9. CONT.'D

Transect	III			IV		
Station	1	2	3	1	2	3
CALANOIDA						
Acartia danae	1.0	0.1	0.2	0	0.1	0.6
Acartia tonsa	0	0.1	0	0	0	0
Acrocalanus andersoni	0	0	0.2	0.2	0.1	0
Acrocalanus longicornis	0.1	0	0.1	0	0	0
Aetideus acutus	0	0	0	0	0	0.1
Calanopia americana	0	0	0	0.1	0	0
Calanus tenuicornis	0	0	0.1	0	0	0.4
Calocalanus pavo	0	0.6	1.4	0.5	1.4	6.3
Calocalanus pavoninus	0.5	0.4	0.2	0	0.3	0.1
Calocalanus styliremis	0	0.7	0.2	0	0	0.2
Calocalanus sp. 3	0	0	0	0	0	0.3
Candacia curta	0.1	0.2	0.1	0	0.5	0
Candacia pachydactyla	0	0	0.1	0	0	0
Centropages caribbeanensis	0	0	0	0	0	0.1
Centropages velificatus	13.7	6.8	4.9	3.4	1.9	1.8
Clausocalanus arcuicornis	0	0	0	0	0.3	0.3
Clausocalanus furcatus	6.1	11.2	6.8	31.1	14.9	4.3
Clausocalanus jobei	0.1	11.9	10.8	1.4	2.9	3.9
Clausocalanus mastigophorus	0	0	0	0	0	0.2
Clausocalanus parapergens	0	0	0	0	0	0.3

TABLE 9. CONT.'D

Ctenocalanus vanus	0	0.7	1.2	0	0.6	4.5
Eucalanus hyalinus	0	0.1	0	0	0	0.1
Eucalanus pileatus	7.8	2.7	1.3	6.9	2.0	2.0
Eucalanus sewelli	0	0	0.1	0	0	0
Euchaeta marina	0	0	0.1	0	0.1	0
Euchaeta paraconcinna	0.2	0.4	0	0	0.6	0
Haloptilus longicornis	0	0	0.3	0	0	0.4
Heterorhabdus papilliger	0	0	0	0	0.1	0.1
Ischnocalanus plumulosus	0	0	0.7	0	0.3	1.1
Labidocera scotti	0	0	0	0.2	0.1	0
Lucicutia flavicornis	0.2	0.5	0.3	0	0.6	1.1
Lucicutia gaussae	0	0	0.1	0	0.1	0
Lucicutia paraclausi	0	1.2	0	0	0	0
Mecynocera clausii	0	0.1	0.3	0	0.4	2.4
Nannocalanus minor	0.9	0.7	1.2	1.2	0.9	0.9
Paracalanus aculeatus	7.5	2.8	2.6	4.7	0.9	2.4
Paracalanus indicus	6.6	4.4	5.3	4.4	3.2	1.4
Paracalanus quasimodo	12.7	9.2	3.6	12.4	19.2	4.0
Paracandacia simplex	0	0	0.3	0	0.3	0.3
Parundinella spinodenticula	0	0.1	0	0	0	0
Pleuromamma piseki	0	0	0	0	0	0.3
Rhincalanus cornutus	0	0	0	0.1	0	0.6
Scaphocalanus subcurtus	0	0	0	0	0	0.1
Scolecithricella ctenopus	0	0.1	0	0	0	0
Scolecithricella tenuiserrata	0	0	0	0	0.1	0.6
Scolecithrix danae	0	0	0.2	0	0.1	0.1

TABLE 9. CONT.'D

Temora stylifera	17.5	2.4	4.4	2.0	4.2	0.6
Temora turbinata	0	0.1	1.2	0.3	0.2	0.3
Undinula vulgaris	0.2	0	0	0.7	0	0
CYCLOPOIDA						
Copilia lata	0	0	0	0	0.1	0.2
Copilia mirabilis	0	0	0.1	0	0	0.4
Corycaeus amazonicus	2.3	2.7	1.1	6.7	1.7	1.5
Corycaeus americanus	6.5	6.0	2.3	10.9	1.9	0.2
Corycaeus clausi	.0	0	0.1	0	0.1	0.3
Corycaeus flaccus	0	0.1	0.1	0	0	0.1
Corycaeus giesbrechti	1.4	0.3	0.9	2.5	0.6	1.7
Corycaeus latus	0	0	0	0	0.3	0
Corycaeus lautus	0	0	0	0	0.1	0
Corycaeus limbatus	0	0	0.2	0	0	0.2
Corycaeus speciosus	0.1	0	0	0	0.1	0.1
Corycaeus typicus	0	0	0	0	0	0.4
Farranula gracilis	2.2	5.0	6.8	0.7	3.9	1.8
Farranula rostrata	0	0	0.1	0.2	0	0
Lichomolgus sp. 1	0	0.1	0	0	0.1	0
Lubbockia squillimana	0	0	0.2	0	0.2	0.6
Oithona hamata	0	0	0	0	0.1	0
Oithona plumifera	3.4	6.0	3.0	0.6	0.8	8.9
Oithona robusta	0	0	0.2	0	0	0.5
Oithona setigera	0	0.7	1.1	0	0.1	3.3
Oithona tenuis	0	0	0.1	0	0.2	1.3
Oithona sp. 1	0	0.7	0.5	0	0	0.5
Oncaea conifera	0	1.5	1.5	0	0.8	1.0

TABLE 9. CONT.'D

Oncaea media	0	0.6	0.1	0	0.4	0.6
Oncaea mediterranea	0.1	13.1	23.3	0.5	27.0	28.9
Oncaea venusta	7.4	3.6	9.4	2.4	4.8	1.3
Sapphirina maculosa	0	0	0	0	0	0.1
Sapphirina metallina	0	0	0.1	0	0	0
Sapphirina nigromaculata	0	0.2	0.1	0	0.1	0
Sapphirina ovatolanceolata	0	0.6	0	0	0	0
HARPACTICOIDA						
Clytemnestra rostrata	0.9	0.3	0	0.1	0	0.1
Clytemnestra scutellata	0	0.1	0.1	0	0.1	0.1
Macrosetella gracilis	1.0	1.6	1.7	5.2	1.4	5.2
Microsetella rosea	0	0	0	0	0	0.1
Miracia efferata	0	0	0	0	0.1	0
Benthic harpacticoid females	0.2	0	0	0	0.1	0

TABLE 9. CONT.'D

TRANSECT II - JULY/AUGUST CRUISE

Cruise	July			August		
Station	1	2	3	1	2	3
Acartia danae	0	0.3	2.7	0	0.1	0.9
Acartia lilljeborgii	0.3	0	0	0.4	0	0
Acartia tonsa	0.1	0	0	0	0.1	0
Acrocalanus andersoni	0	0	0.1	0	0	0.4
Acrocalanus longicornis	0.1	0.1	0	0	0.9	0.8
Calanopia americana	0	0	0	0.3	0.4	0.2
Calanus tenuicornis	0	0	0	0	0	0.1
Calocalanus pavo	0	0.5	0.8	0	0.5	1.6
Calocalanus pavoninus	0.1	0	0.4	0	1.4	0.5
Calocalanus styliremis	0	0	0.1	0.3	0.3	0.1
Candacia curta	0	0.1	0	0	0	0.1
Centropages velificatus	8.5	6.8	0.2	5.6	5.5	1.7
Clausocalanus arcuicornis	0	0.2	0.1	0	0	0.4
Clausocalanus furcatus	9.8	13.3	4.0	0.6	5.6	9.3
Clausocalanus jobei	0.2	5.2	0	0	0	6.8
Clausocalanus parapergens	0	0	0	0	0	0.5
Ctenocalanus vanus	0	0	0.1	0	0	2.5
Eucalanus pileatus	2.8	0.7	0.2	8.0	2.0	0.4
Euchaeta marina	0	0	0	0	0	0.5
Euchaeta paraconcinna	0	0.3	0	0	0.2	0.3
Haloptilus longicornis	0	0	0	0	0	0.1

TABLE 9. CONT.'D

Heterorhabdus spinifer	0	0	0.1	0	0	0.1
Ischnocalanus plumulosus	0	0	1.0	0	0	0.2
Lucicutia flavicornis	0	0	1.2	0	0	3.9
Lucicutia gaussae	0	0	0.1	0	0	0
Lucicutia paraclausi	0	0.1	0	0	0.1	0
Mecynocera clausii	0	0.1	3.5	0	0	1.0
Nannocalanus minor	0.1	0.9	0	0	0.6	4.2
Paivella inaciae	0	0	0	0	0	0.1
Paracalanus aculeatus	16.6	12.1	8.5	16.2	31.0	4.2
Paracalanus indicus	16.7	3.9	0.1	10.7	1.7	2.7
Paracalanus quasimodo	7.0	1.7	0.1	27.5	8.7	1.1
Paracandacia simplex	0	0	0.9	0	0	0.3
Pleuromamma abdominalis	0	0	0	0	0	0.1
Pleuromamma gracilis	0	0	0	0	0	0.3
Pleuromamma piseki	0	0	0	0	0	0.3
Pontellina plumata	0	0	0.1	0	0	0
Pontellopsis villosa	0	0	0.1	0	0	0
Scaphocalanus subcurtus	0	0	0	0	0	0.1
Scolecithricella ctenopus	0	0	0	0	0	0.1
Scolecithricella dentata	0	0	0	0	0	0.2
Scolecithricella tenuiserrata	0	0	0	0	0	0.1
Scolecithrix bradyi	0	0	0	0	0	0.1
Scolecithrix danae	0	0	0.1	0	0	0.5
Stephos deichmannae	0	0	0	0	0	0.1
Temora stylifera	2.3	3.1	2.9	0.4	0.8	1.2
Temora turbinata	5.3	0.9	0.2	3.2	0.1	5.7

TABLE 9. CONT.'D

Temoropia mayumbaensis	0	0	0	0	0	0.1
Undinula vulgaris	0.1	0.5	0	0	0.4	0.7
CYCLOPOIDA						
Copilia mirabilis	0	0.1	0.3	0	0.3	0.7
Corycaeus amazonicus	3.7	1.0	0.1	3.9	0.9	0.2
Corycaeus americanus	5.7	1.2	0.1	2.7	0.2	0.1
Corycaeus clausi	0	0	0.1	0	0	0.1
Corycaeus giesbrechti	2.5	3.7	2.7	9.5	4.7	0.9
Corycaeus latus	0	0.3	0	0	0.3	0.3
Corycaeus lautus	0	0	0.1	0	0	0
Corycaeus limbatus	0	0	0	0	0	0.1
Corycaeus speciosus	0	0.3	0.1	0	0.2	0.2
Corycaeus typicus	0	0	0.3	0	0	0
Farranula gracilis	5.4	18.8	6.1	1.4	7.2	7.7
Lichomolgus sp. 1	0	0	0	0	0	0.2
Lubbockia squillimana	0	0	1.8	0	0	0.2
Oithona hamata	0	0	0	0	0	0.1
Oithona plumifera	4.5	5.8	19.0	3.6	17.7	7.0
Oithona robusta	0	0	0.1	0	0	0
Oithona setigera	0	0	0.2	0	0	1.7
Oithona tenuis	0.1	0.2	1.7	0	0.1	0.2
Oithona sp. 1	0	0	0	0	0	0.5
Oncaea conifera	0.1	0	0.7	0	0	2.4
Oncaea media	0	0	0	0	0.1	0.2
Oncaea mediterranea	0	4.2	24.4	0	1.1	17.1
Oncaea venusta	8.4	13.9	9.9	5.5	6.8	5.8

TABLE 9. CONT.'D

Sapphirina angusta	0	0	0.1	0	0	0.1
Sapphirina auronitens	0	0.1	0	0	0	0
Sapphirina maculosa	0	0	0	0	0.1	0
Sapphirina metallina	0	0	0	0	0	0.1
Sapphirina nigromaculata	0	0.1	0	0	0.5	0.3
Sapphirina ovatolanceolata	0	0	0.1	0	0	0.1
HARPACTICOIDA						
Clytemnestra scutellata	0	0.1	0.2	0	0.2	0.2
Macrosetella gracilis	0.1	0.3	5.4	0	0.1	0.3
Microsetella rosea	0	0	0.1	0	0	0
Miracia efferata	0	0	0.2	0	0	0
Benthic harpacticoid females	0	0	0	0.6	0	0

TABLE 9. CONT.'D

SEPTEMBER CRUISE

Transect	I			II		
Station	1	2	3	1	2	3
CALANOIDA						
Acartia danae	0	0	0.6	0	0.1	0.8
Acartia lilljeborgii	0.1	0	0	0.5	0	0
Acartia tonsa	0.4	0	0	0	0	0
Acrocalanus andersoni	0	0	0.1	0	0.1	0.5
Acrocalanus longicornis	0	0.3	0.5	0	1.7	0.2
Bradyidius arnoldi	0	0	0	0	0	0.1
Calanopia americana	1.9	5.5	0	0.6	0.1	0.1
Calanus tenuicornis	0	0	0.2	0	0	0.1
Calocalanus pavo	0.1	0.4	2.0	0	3.9	1.5
Calocalanus pavoninus	0	0.2	1.4	0	0.3	0.5
Calocalanus styliremis	0	0	0.2	0	0.1	0.1
Calocalanus sp. 2	0	0	0.1	0	0	0
Calocalanus sp. 3	0	0	0.1	0	0	0.1
Candacia curta	0	0	0.1	0	0.3	0.2
Candacia pachydactyla	0	0	0	0	0	0.1
Centropages carribeanensis	0	0	0	0	0.1	0.1
Centropages velificatus	6.8	3.6	0	1.2	0.1	0.2
Clausocalanus arcuicornis	0	0	0.1	0	0	0.3
Clausocalanus furcatus	0	2.7	39.0	0.3	25.8	29.5
Clausocalanus jobei	0	0	3.6	0	0.1	8.4

TABLE 9. CONT.'D

Clausocalanus mastigophorus	0	0	0.1	0	0	0
Clausocalanus parapergens	0	0	0.1	0	0	0.5
Ctenocalanus vanus	0	0	0.1	0	0	0.7
Eucalanus pileatus	7.1	1.1	0.1	5.9	0.5	0.4
Euchaeta marina	0	0	0.2	0	0	0.3
Euchaeta media	0	0	0	0	0	0.1
Euchaeta paraconcinna	0	0	0	0	0.1	0.1
Haloptilus longicornis	0	0	0.5	0	0	0.1
Heterorhabdus papilliger	0	0	0	0	0	0.1
Ischnocalanus plumulosus	0	0	0.2	0	0	0.1
Labidocera aestiva	0.1	0	0	0	0	0
Lucicutia flavicornis	0	0	0.6	0	0	1.4
Lucicutia gaussae	0	0	0.1	0	0	0
Lucicutia paraclausi	0	0	0.1	0	0.1	0
Mecynocera clausii	0	0.1	2.4	0	0.1	0.8
Nannocalanus minor	0	0	0.4	0	0.2	1.2
Paracalanus aculeatus	1.0	14.3	2.3	16.6	8.7	3.4
Paracalanus crassirostris	0	0.1	0	0	0	0
Paracalanus indicus	7.8	8.9	0.1	3.2	0.1	0.4
Paracalanus quasimodo	27.1	6.9	0.1	7.7	1.5	0.1
Paracandacia bispinosa	0	0	0	0	0	0.1
Paracandacia simplex	0	0	0.2	0	0.2	0.2
Pleuromamma gracilis	0	0	0.1	0	0	0.2
Pleuromamma piseki	0	0	0.1	0	0	0.1
Scaphocalanus subcurtus	0	0	0	0	0	0.1
Scolecithricella dentata	0	0	0	0	0	0.1
Scolecithricella tenuiserrata	0	0	0	0	0	0.1

TABLE 9. CONT.'D

Scolecithrix danae	0	0	0.1	0	0	0.1
Stephos deichmannae	0	0	0.1	0	0	0
Temora stylifera	0.3	1.5	0.1	0.3	1.6	0.3
Temora turbinata	37.8	6.3	0.3	56.6	0.2	0.4
Temoropia mayumbaensis	0	0	0	0	0	0.2
Undinula vulgaris	0	0	0.2	0	1.7	0.2
CYCLOPOIDA						
Copilia mirabilis	0	0.1	0.2	0	0.2	0.3
Corycaeus amazonicus	2.2	3.7	0.1	2.9	0	0.3
Corycaeus americanus	0.1	0.3	0	0.8	0	0.1
Corycaeus clausi	0	0	0.1	0	0	0.1
Corycaeus furcifer	0	0	0	0	0	0.1
Corycaeus giesbrechti	5.2	5.8	0.5	3.6	0.7	1.2
Corycaeus latus	0	0	0.2	0	0.4	0.3
Corycaeus limbatus	0	0	0	0	0	0.1
Corycaeus speciosus	0	0.1	0.2	0	0.4	0.3
Corycaeus typicus	0	0	0	0	0	0.1
Farranula gracilis	0	5.0	5.8	0.2	25.2	5.4
Lichomolgus sp.	0.2	0	0.1	0	0	0.1
Lubbockia squillimana	0	0	0.2	0	0	0.1
Mormonilla minor	0	0	0	0	0	0.1
Oithona hamata	0	0	0	0	0	0.3
Oithona nana	0.2	0.4	0	0	0	0
Oithona plumifera	0.9	4.9	19.7	0	17.2	9.3
Oithona robusta	0	0	0.2	0	0	0.1
Oithona setigera	0	0	2.6	0	0	2.2
Oithona simplex	0	0.1	0	0	0	0

TABLE 9. CONT.'D

Oithona tenuis	0	0	0.8	0	0	0.2
Oithona sp. 1	0	0	0.2	0	0	0.2
Oncaea conifera	0	0	0.1	0	0	1.2
Oncaea media	0	0	0.4	0	0	0.1
Oncaea mediterranea	0	0	3.8	0	1.0	10.2
Oncaea venusta	0.1	27.3	9.0	0	7.4	14.6
Sapphirina auronitens	0	0	0	0	0	0.1
Sapphirina metallina	0	0	0	0	0	0.1
Sapphirina nigromaculata	0	0	0	0	0.2	0.3
Sapphirina ovatolanceolata	0	0	0	0	0.1	0.1
HARPACTICOIDA						
Clytemnestra rostrata	0	0	0.1	0	0	0
Clytemnestra scutellata	0	0	0.1	0	0	0.1
Macrosetella gracilis	0.7	0.4	0.4	0	0.1	0.1
Benthic harpacticoid females	0.3	0.6	0	0	0	0

TABLE 9. CONT.'D

Transect	III			IV		
Station	1	2	3	1	2	3
CALANOIDA						
Acartia danae	0	0.2	0.2	0	0.3	0.4
Acartia lilljeborgii	0.2	0	0	0	0	0
Acrocalanus andersoni	0	0.2	0.3	0	0	0
Acrocalanus longicornis	0	0.7	0.7	1.2	1.5	0.8
Calanopia americana	0.5	0.1	0.3	0.3	0	0
Calanus tenuicornis	0	0	0	0	0	0.2
Calocalanus pavo	0	0.7	1.0	4.6	0.8	2.7
Calocalanus pavoninus	0	0.1	0.3	0.2	1.0	0.7
Calocalanus styliremis	0	0	0.1	0	0.2	0.2
Calocalanus sp. 3	0	0	0	0	0	0.1
Candacia curta	0	0.2	0.2	0	0	0
Centropages caribbeanensis	0	0	0	0	0	0.1
Centropages velificatus	0	0.2	0.3	0.2	1.1	0.1
Clausocalanus arcuicornis	0	0	0.1	0	0	0.1
Clausocalanus furcatus	0.1	33.3	28.3	42.3	42.7	27.1
Clausocalanus jobei	0	8.9	2.0	0	0.1	0.5
Clausocalanus mastigophorus	0	0	0	0	0.1	0
Ctenocalanus vanus	0	0.4	0	0	0	0.5
Eucalanus pileatus	1.1	1.2	0.8	0.1	1.7	0
Euchaeta marina	0	0	0	0.1	0.3	0.1
Euchaeta paraconcinna	0	0.2	0.1	0	0	0.1

TABLE 9. CONT.'D

Haloptilus longicornis	0	0	0	0	0	0.3
Ischnocalanus plumulosus	0	0.1	0.1	0	0	0
Lucicutia flavicornis	0	0.1	0	0	0	0.4
Lucicutia gaussae	0	0	0.1	0	0	0.1
Lucicutia paraclausi	0	2.0	0.1	0	0	0
Mecynocera clausii	0	0.1	0.1	0	0.1	1.1
Nannocalanus minor	0	0.4	2.8	1.2	2.0	0.4
Neocalanus gracilis	0	0	0	0	0	0.1
Paracalanus aculeatus	1.6	5.2	5.3	4.5	9.2	2.5
Paracalanus crassirostris	1.7	0	0	0	0	0
Paracalanus indicus	32.1	0.2	0.2	0	0	0.1
Paracalanus quasimodo	24.5	4.9	1.4	0.2	5.0	0.4
Paracandacia bispinosa	0	0	0	0	0	0.1
Paracandacia simplex	0	0	0.1	0	0.1	0.1
Parundinella spinodenticula	0	0.1	0	0	0	0
Scolecithricella tenuiserrata	0	0	0	0	0	0.1
Scolecithrix danae	0	0	0	0	0.1	0.5
Temora stylifera	0	1.0	0.5	0.4	1.5	0.4
Temora turbinata	16.0	1.7	0.2	0	0	0.1
Undinula vulgaris	0	0.2	0.3	1.9	4.2	0
CYCLOPOIDA						
Copilia mirabilis	0	0.2	0.1	0.2	0.2	0.1
Corycaeus amazonicus	0.2	0.2	0.1	0.1	0.2	0
Corycaeus americanus	0.1	0.1	0	0	0	0
Corycaeus flaccus	0	0.1	0	0	0	0
Corycaeus giesbrechti	0.5	1.7	1.5	0.9	0.9	0.4
Corycaeus latus	0	0	0.1	0.4	0.5	0.1

TABLE 9. CONT.'D

Corycaeus lautus	0	0	0	0	0	0.1
Corycaeus speciosus	0	0.1	0.3	0.6	0.1	0.1
Farranula gracilis	0	10.7	26.3	16.3	19.6	22.1
Lichomolgus sp.	0.1	0.2	0	0	0	0
Lubbockia squillimana	0	0.1	0	0	0	0
Oithona nana	0.3	0	0	0	0.1	0
Oithona plumifera	0.4	4.1	3.4	1.7	5.3	16.1
Oithona robusta	0	0	0.1	0	0	0.4
Oithona setigera	0	0	0.4	0	0	2.2
Oithona simplex	16.5	0	0	0	0	0
Oithona tenuis	0	0.1	0.1	0	0	0.7
Oithona sp. 1	0	0	0	0	0	0.1
Oncaea conifera	0	0.1	0	0	0	0
Oncaea media	0.3	0.1	0.1	0.4	0.1	0.9
Oncaea mediterranea	0	3.9	9.5	0	0.3	1.6
Oncaea venusta	0.4	16.2	12.9	22.8	1.1	15.3
Saphirella tropica	0	0	0	0	0	0.1
Saphirella sp.	0.3	0	0	0	0	0
Sapphirina angusta	0	0	0	0	0	0.1
Sapphirina lactens	0	0	0	0	0.1	0
Sapphirina maculosa	0	0	0	0	0	0.1
Sapphirina nigromaculata	0	0.2	0.2	0	0.1	0
Sapphirina ovatolanceolata	0	0	0	0	0.2	0
HARPACTICOIDA						
Clytemnestra rostrata	0.2	0	0	0	0	0
Clytemnestra scutellata	0	0.1	0	0	0	0

TABLE 9. CONT.'D

Macrosetella gracilis	0	0.1	0	0	0	0.4
Miracia efferata	0	0	0.1	0	0	0
Benthic harpacticoid females	3.3	0	0.1	0	0	0

TABLE 9. CONT.'D

TRANSECT II - NOVEMBER/DECEMBER CRUISE

Cruise	November			December		
Station	1	2	3	1	2	3
CALANOIDA						
Acartia danae	0	0	0.1	0	0	0.1
Acartia tonsa	0	0	0	0.3	0	0.1
Acrocalanus andersoni	0	0.3	0.1	0	0	0.3
Acrocalanus longicornis	0.1	0.6	0.6	0.1	0.4	0.5
Aetideus acutus	0	0.1	0.1	0	0	0.1
Calanopia americana	3.9	2.2	1.5	0.1	4.1	0.6
Calanus tenuicornis	0	0	0.1	0	0.3	0.2
Calocalanus pavo	0.2	0.4	0.8	0.1	0.5	1.2
Calocalanus pavoninus	0	1.2	0.2	0.5	0.6	0.1
Calocalanus styliremis	0.1	1.5	0.2	0	2.4	1.2
Calocalanus sp. 1	0	0	0	0	0.2	0
Calocalanus sp. 2	0	0	0	0	0.1	0
Calocalanus sp. 3	0	0	0.1	0	0.1	0
Calocalanus sp. 4	0	0	0	0	0.1	0.2
Candacia curta	0	0.2	0.4	0	0.3	0.1
Candacia pachydactyla	0	0	0.2	0	0	0.1
Centropages caribbeanensis	0	0	0	0	0.1	0
Centropages hamatus	0	0	0	0	0	0.1
Centropages velificatus	3.9	0.2	0	1.9	1.0	0.1
Clausocalanus arcuicornis	0	0.1	0.1	0	0.1	0.8

TABLE 9. CONT.'D

Clausocalanus furcatus	3.7	21.4	40.8	1.8	21.3	23.6
Clausocalanus jobei	0.3	0.5	2.8	0	1.2	3.0
Clausocalanus mastigophorus	0	0	0.2	0	0.6	0.2
Clausocalanus parapergens	0	0	0	0	0	1.2
Clausocalanus paululus	0	0	0	0	0	0.1
Clausocalanus pergens	0	0	0	0	0	0.4
Ctenocalanus vanus	0	0.1	0.1	0	0.1	1.4
Euaugaptilus hecticus	0	0	0	0	0	0.1
Eucalanus monachus	0	0	0	0	0	0.1
Eucalanus pileatus	6.6	1.0	0.8	0.5	0.3	0.9
Euchaeta marina	0	0.2	0.2	0	0	0.3
Euchaeta media	0	0	0	0	0	0.1
Euchaeta paraconcinna	0	0.1	0.1	0	0.4	0.3
Haloptilus longicornis	0	0	0.1	0	0	0.8
Heterohabdus papilliger	0	0	0	0	0	0.3
Heterohabdus spinifer	0	0	0	0	0	0.2
Ischnocalanus plumulosus	0	0	0.2	0	0.2	0.3
Labidocera aestiva	0	0	0	0.3	0	0.1
Lucicutia flavicornis	0	0.2	0.9	0	1.0	1.6
Lucicutia gaussae	0	0	0.1	0	0	0.1
Lucicutia paraclausi	0	0.4	0.1	0	1.0	0.3
Mecynocera clausii	0	0.2	0.1	0	0.3	0.3
Nannocalanus minor	0.2	1.2	1.5	0	0.7	1.6
Paivella inaciae	0	0	0	0	0	0.1
Paracalanus aculeatus	12.5	5.2	7.8	3.6	8.5	8.0
Paracalanus crassirostris	0.2	0	0	0.1	0	0

TABLE 9. CONT.'D

Paracalanus denudatus	0	0.1	0	0	0	0.1
Paracalanus indicus	14.5	13.7	4.9	41.7	15.3	6.1
Paracalanus quasimodo	9.4	10.1	2.1	18.8	3.3	1.0
Paracandacia bispinosa	0	0	0	0	0	0.1
Paracandacia simplex	0	0	0.3	0	0	0.1
Pleuromamma abdominalis	0	0	0	0	0	0.1
Pleuromamma gracilis	0	0	0.1	0	0	0.5
Pleuromamma piseki	0	0	0	0	0	0.3
Rhincalanus cornutus	0	0	0	0	0	0.2
Scaphocalanus subcurtus	0	0	0.1	0	0	0.3
Scolecithricella dentata	0	0	0	0	0	0.5
Scolecithricella tenuiserrata	0	0	0	0	0	0.1
Scolecithrix bradyi	0	0	0	0	0.1	0
Scolecithrix danae	0	0	0	0	0	0.2
Stephos deichmannae	0.1	0.3	0	0	0	0
Temora stylifera	0	0.3	0.5	0	0.4	0.3
Temora turbinata	7.4	5.7	2.5	16.5	7.0	3.5
Temoropia mayumbaensis	0	0	0	0	0	0.5
Undinula vulgaris	0	0.5	0.7	0	0.1	0.4
CYCLOPOIDA						
Copilia mirabilis	0	0	0.1	0	0	0.1
Corycaeus amazonicus	23.8	0.8	0.2	3.2	0.7	0.2
Corycaeus americanus	3.1	0.1	0	1.3	0.3	0.1
Corycaeus clausi	0	0	0.1	0	0	0
Corycaeus flaccus	0	0	0.2	0	0.2	0
Corycaeus furcifer	0	0	0	0	0	0.1

TABLE 9. CONT.'D

Corycaeus giesbrechti	5.0	3.0	1.8	4.8	1.9	1.3
Corycaeus latus	0	0.1	0.1	0	0.2	0.2
Corycaeus lautus	0	0	0.1	0	0	0.1
Corycaeus limbatus	0	0	0.1	0	0.2	0.3
Corycaeus minimus	0	0	0.1	0	0	0
Corycaeus speciosus	0	0.3	0.4	0	0.3	0.2
Corycaeus typicus	0	0	0	0	0.1	0.1
Farranula gracilis	0.1	11.2	2.7	0	2.6	4.2
Lichomolgus sp. 1	0	0.4	0	0	0.8	0.1
Lubbockia squillimana	0	0.1	0.1	0	0.2	0.3
Oithona hamata	0	0	0	0	0	1.3
Oithona nana	1.1	0.1	0	0.9	0	0
Oithona plumifera	2.7	9.6	5.3	2.0	9.3	6.0
Oithona robusta	0	0	0.1	0	0	0.2
Oithona setigera	0.1	0	0.8	0	0.3	3.2
Oithona tenuis	0	0.2	0.2	0	0.2	0.3
Oithona sp. 1	0	0.1	0.1	0	0	0.1
Oncaea conifera	0	0.2	0.6	0	0	0.9
Oncaea media	0	0.1	0.3	0	0.2	1.0
Oncaea mediterranea	0.1	2.6	7.6	0.2	3.0	5.7
Oncaea venusta	1.2	3.2	8.9	1.0	6.8	10.6
Saphirella tropica	0	0	0.1	0	0	0
Sapphirina nigromaculata	0	0.1	0.1	0	0.1	0.2
Sapphirina ovatolanceolata	0	0	0.1	0	0	0
Sapphirina stellata	0	0	0.1	0	0	0

TABLE 9. CONT.'D

Siphonostomata sp. 1	0	0	0	0	0	0.1
HARPACTICOIDA						
Clytemnestra rostrata	0	0	0	0.1	0.2	0
Clytemnestra scutellata	0	0	0.1	0	0	0.1
Macrosetella gracilis	0.2	1.2	0.5	0.1	2.1	0.7
Benthic harpacticoid females	0.2	0.3	0	0.7	0.3	0

TABLE 10
NUMBER OF SPECIMENS AND SPECIES OF COPEPODS OBSERVED
AND CALCULATED SPECIES DIVERSITY INDEX AND EQUITABILITY
MEAN OF TWO SAMPLES PER STATION

JANUARY/FEBRUARY CRUISE

Transect	Station	No. of Specimens (N)	No. of Species (S)	Species Diversity Index (H)	Equitability $E = \frac{H(S)}{H_{max}(S)}$
I	1	503	20	2,8550	0.6660
	2	424	46	3.8808	0.7045
	3	574	54	4.3884	0.7626
II	1	486	19	1.9117	0.4516
	2	353	49	4.4326	0.7894
	3	554	67	4.7746	0.7903
III	1	482	17	1.9811	0.4846
	2	481	59	4.6427	0.7891
	3	521	40	3.5910	0.6749
IV	1	611	17	1.8171	0.4693
	2	413	34	3.0001	0.5906
	3	888	75	4.7547	0.7633

TABLE 10. CONT.'D

TRANSECT II - MARCH/APRIL CRUISE

Cruise	Station	No. of Specimens (N)	No. of Species (S)	Species Diversity Index (H)	Equitability $E = \frac{H(S)}{H_{max}(S)}$
March	1	536	15	1.5911	0.4077
	2	619	39	3.0000	0.5732
	3	611	62	4.5649	0.7679
April	1	965	14	1.1296	0.2994
	2	890	29	2.5157	0.5164
	3	879	56	3.9999	0.6910

TABLE 10. CONT.'D

MAY/JUNE CRUISE

Transect	Station	No. of Specimens (N)	No. of Species (S)	Species Diversity Index	Equitability $E = \frac{H(S)}{H_{max}(S)}$
I	1	530	16	2.6022	0.6506
	2	437	28	2.5977	0.7523
	3	1096	68	4.4681	0.7337
II	1	404	22	2.7149	0.6137
	2	435	29	3.4777	0.7163
	3	551	51	4.4089	0.7796
III	1	399	23	3.6364	0.8105
	2	469	35	4.0513	0.7932
	3	595	41	4.0520	0.7575
IV	1	600	23	3.1371	0.6963
	2	876	42	3.5852	0.6664
	3	578	51	4.2014	0.7426

TABLE 10. CONT.'D

TRANSECT II

JULY/AUGUST CRUISE

Cruise	Station	No. of Specimens (N)	No. of Species (S)	Species Diversity Index (H)	Equitability $E = \frac{H(S)}{H_{max}(S)}$
July	1	748	20	3.4259	0.7925
	2	528	27	3.5234	0.7456
	3	1132	38	3.5884	0.6863
August	1	156	15	3.1674	0.8240
	2	980	31	3.1902	0.6498
	3	787	55	4.4718	0.7738

TABLE 10. CONT.'D

MEAN OF TWO SAMPLES PER STATION

SEPTEMBER CRUISE

Transect	Station	No. of Specimens (N)	No. of Species (S)	Species Diversity Index	Equitability $E = \frac{H(S)}{H_{max}(S)}$
I	1	551	17	2.6050	0.6448
	2	546	22	3.3852	0.7611
	3	1169	46	3.1678	0.5753
II	1	254	13	2.1125	0.5785
	2	859	30	2.9959	0.6142
	3	1286	58	3.6627	0.6278
III	1	387	18	2.5251	0.6056
	2	940	34	3.2154	0.6313
	3	1099	35	3.0586	0.5985
IV	1	808	20	2.4497	0.5674
	2	1125	30	2.8597	0.5858
	3	1012	37	3.1065	0.6047

TABLE 10.CONT.'D

TRANSECT II

NOVEMBER/DECEMBER CRUISE

Cruise	Station	No. of Specimens (N)	No. of Species (S)	Species Diversity Index (H)	Equitability $E = \frac{H(S)}{H_{max}(S)}$
November	1	417	20	3.1079	0.7259
	2	1001	37	3.5691	0.6886
	3	940	46	3.3942	0.6285
December	1	662	19	2.6174	0.6155
	2	513	42	3.9124	0.7259
	3	1041	68	4.2608	0.6999

The Department of the Interior Mission

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering sound use of our land and water resources; protecting our fish, wildlife, and biological diversity; preserving the environmental and cultural values of our national parks and historical places; and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people by encouraging stewardship and citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.

The Minerals Management Service Mission

As a bureau of the Department of the Interior, the Minerals Management Service's (MMS) primary responsibilities are to manage the mineral resources located on the Nation's Outer Continental Shelf (OCS), collect revenue from the Federal OCS and onshore Federal and Indian lands, and distribute those revenues.

Moreover, in working to meet its responsibilities, the **Offshore Minerals Management Program** administers the OCS competitive leasing program and oversees the safe and environmentally sound exploration and production of our Nation's offshore natural gas, oil and other mineral resources. The MMS **Minerals Revenue Management** meets its responsibilities by ensuring the efficient, timely and accurate collection and disbursement of revenue from mineral leasing and production due to Indian tribes and allottees, States and the U.S. Treasury.

The MMS strives to fulfill its responsibilities through the general guiding principles of: (1) being responsive to the public's concerns and interests by maintaining a dialogue with all potentially affected parties and (2) carrying out its programs with an emphasis on working to enhance the quality of life for all Americans by lending MMS assistance and expertise to economic development and environmental protection.