

UNIVERSITY OF CALIFORNIA SCRIPPS INSTITUTION OF OCEANOGRAPHY

data report

PHYSICAL AND CHEMICAL DATA

CCOFI Cruise 6507
15 June - 11 August 1965

and

CCOFI Cruise 6509
31 August - 25 September 1965

SIO Reference 67-17

UNIVERSITY OF CALIFORNIA
SCRIPPS INSTITUTION OF OCEANOGRAPHY

PHYSICAL AND CHEMICAL DATA

CCOFI Cruise 6507
15 June - 11 August 1965

and

CCOFI Cruise 6509
31 August - 25 September 1965

Sponsored by

Marine Research Committee

SIO Reference 67-17

Approved for distribution:

W. A. Nierenberg
W. A. Nierenberg, Director

CONTENTS

INTRODUCTION iii

CRUISE 6507

 List of Figures viii

 Personnel x

 Tabulated Data 1

CRUISE 6509

 List of Figures xii

 Personnel xiii

 Tabulated Data 109

DISTRIBUTION LIST 121

INTRODUCTION

The data presented in this report were collected by the RV Black Douglas of the Bureau of Commercial Fisheries and by the RV Alexander Agassiz of the Scripps Institution of Oceanography on Cruise 6507 and the RV Black Douglas on Cruise 6509 of the California Cooperative Oceanic Fisheries Investigations program. The first two figures in this cruise numbering system represent the year of the cruise; the last two figures, the month. The cruises preceding this one in the series are 6404 and 6407 (Scripps Institution report, SIO Ref. 66-20) and 6504 and 6505 (SIO Ref. 67-16).

The data are accompanied by charts of horizontal distribution.

TABULATED DATA

On Cruise 6507 the data were obtained by bottle casts and by the in situ Salinity/Temperature/Depth Monitoring and Recording System (STD) and are presented in two forms:

1. When a station consisted of a bottle cast only such as those occupied by the RV Black Douglas, the data are presented in the usual fashion with bottle cast data to the left and standard depth values, interpolated and computed from the bottle cast data, to the right.
2. When a station included both a bottle cast and an STD lowering such as those on the RV Alexander Agassiz, both sets of data are shown with the bottle cast data to the left and the standard depth and computed values determined from the STD record to the right.

On Cruise 6509 only 10 meter temperature and salinity values at net tow stations were collected.

STANDARD PROCEDURES

In situ Salinity/Temperature/Depth Recorder

The manufacturer of the STD claims for the temperature an accuracy of $\pm 0.05^{\circ}\text{C}$ on all ranges with repeatability of $\pm 0.01^{\circ}\text{C}$ and for the salinity an accuracy of

$\pm 0.03\%$ on all ranges with repeatability of $\pm 0.01\%$.^{1/} Except for the depth range corresponding to the steepest part of the thermocline, where the salinity trace appears to fluctuate more widely than the bottle samples can confirm, the results of this cruise support the manufacturer's claims.

For Cruise 6507 the close agreement between the bottle cast data and the STD records makes any corrections to the values read from the records unnecessary.

Hydrographic Casts

The observed data have been plotted and then evaluated using the method described by Klein.^{2/} This involves consideration of their variation as functions of density or depth and their relations to each other, and comparison with concurrent bathythermogram or STD observations and with previous or adjacent observations.

To indicate degree of accuracy, temperatures are recorded in tenths of a degree when obtained by bucket thermometer, thermograph or bathythermograph, while temperatures from reversing thermometers are recorded in hundredths of a degree. The salinity of the collected samples when determined by salinometer is recorded to three decimal places, provided it meets accepted standards. The values recorded "have a reproducibility of $\pm 0.004\%$ salinity at the 95 per cent probability level and a probable accuracy of $\pm 0.01\%$ salinity or better at the same level of probability."^{3/} The values are recorded to two decimal places when only one determination per sample was obtained, or where there is doubt concerning the accuracy of a particular sample, or of all samples on a station. The accuracy of all samples obtained by salinometer and recorded to two decimal places is believed to be equal to or better than those obtained by manual titration.

On stations consisting of bottle casts only, extrapolated values and values interpolated between remote observations are not indicated but can be determined from the tabulation of observed depths. A hyphen is used to indicate a missing observed or interpolated value. The time on these stations is the time of messenger release for the bottle cast. On stations having both bottle casts and STD lowerings the first time listed in the heading

^{1/}In situ Salinity/Temperature/Depth Monitoring and Recording System, Model 9006, Tech. Rep. No. 102, HYTECH Marine Products, The Bissett-Berman Corporation.

^{2/}Klein, Hans T. A new technique for processing physical oceanographic data. MS.

^{3/}Quotation from Department of Oceanography, University of Washington, Tech. Rep. No. 66, UW Ref. 60-18, October 1960.

is the time of messenger release for the bottle cast. The second time listed is the startdown time for the STD lowering usually about one-half hour before the bottle cast. When more than one bottle cast was made on station, messenger times and wire angles are given in the order of increasing depth and a significant change in position during a multiple cast is listed similarly. Multiple casts are indicated by a letter following all observed depths of each cast except the cast originating at the surface. Footnotes corresponding to each letter will explain the type of cast.

On stations where more than one cast was lowered, slight discrepancies in the property values may be noted. These may be caused by changes in geographical position, real changes with time, slight error in measurement or a combination of these factors. Reconciled property curves from these bottle casts were used for interpolated values deeper than the 600 meter STD lowering.

FOOTNOTES

Laboratory personnel note any possible imperfections in the sealing of the sample bottles as follows:

Loose bottle cap: The cap is definitely loose so that it could be moved with very little applied pressure. The salinity values obtained from these samples may be usable depending on time and/or conditions of storage.

Possible evaporation: Either the cap was sealed with less than usual pressure, the bottle edge chipped, the rubber washer cracked, or the bale broke on opening, etc.

Use of the above values in interpolation on stations where no STD lowering was made, depends upon consistency with other values of salinity and other properties and these footnotes are supplemented with "falls on property curve" or "does not fall on property curve," depending upon whether or not the property curve was drawn through the value.

In addition to footnotes, one special notation is used without a footnote because the meaning is always the same. Values which seem to be in error without apparent reason are indicated by the following notation:

u: uncertain value (value may be correct; occasionally it can influence the drawing of the property curve on stations where no STD lowering was made).

FORMAT

These data were collected in part by personnel of and processed completely by the Data Collection and Processing Group (DCPG, MLR), Scripps Institution of Oceanography.

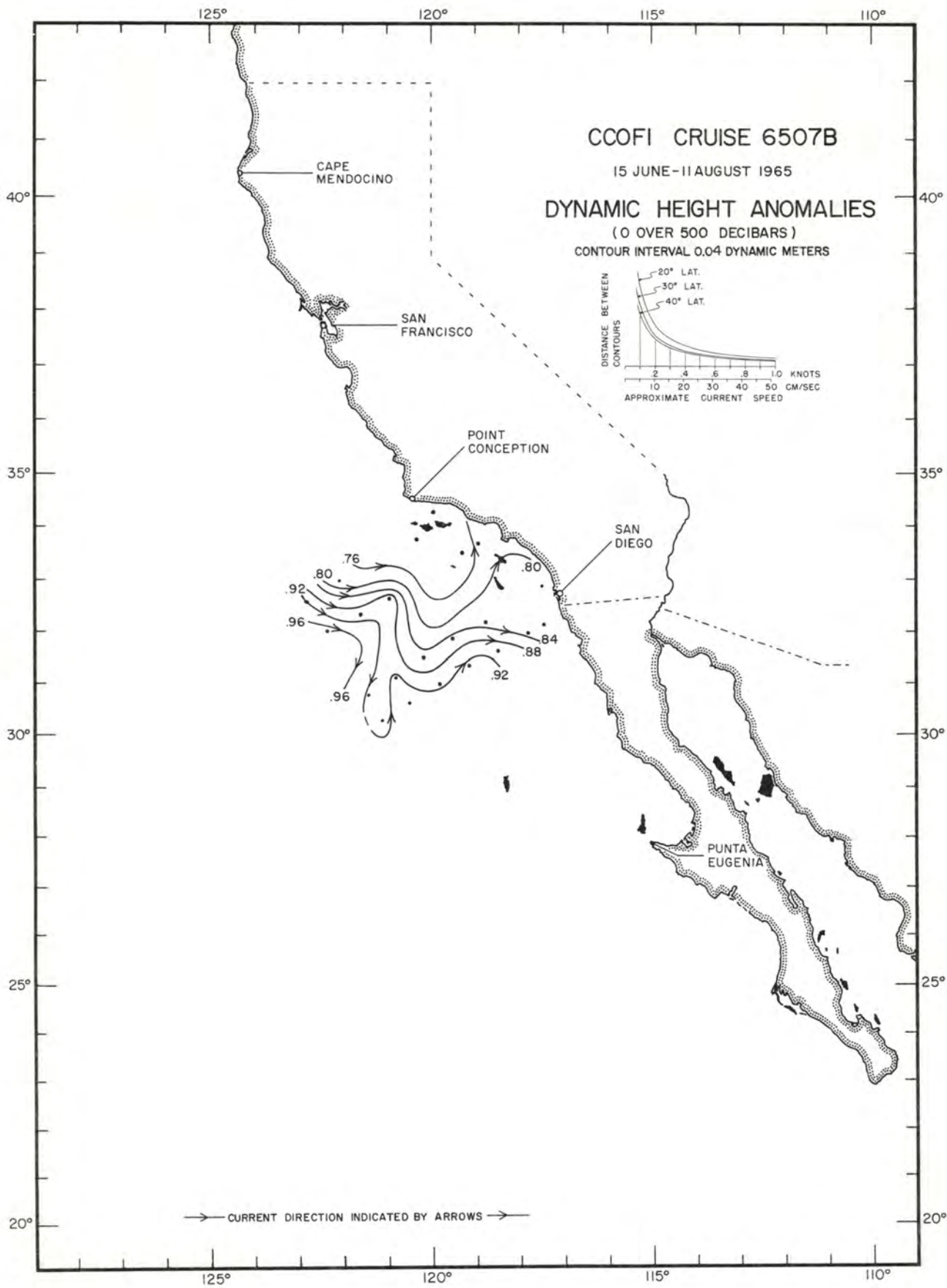


FIGURE 2

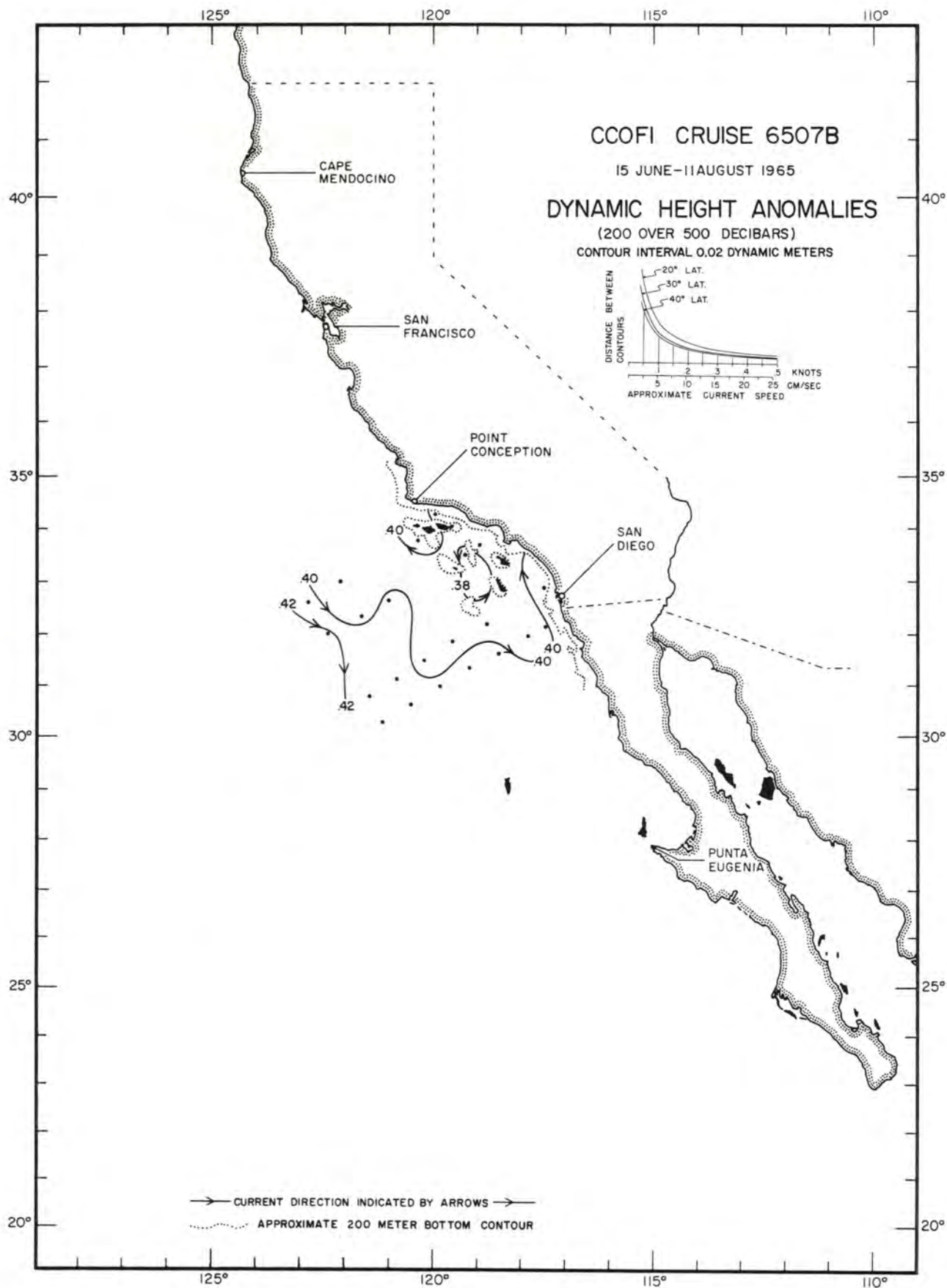


FIGURE 3

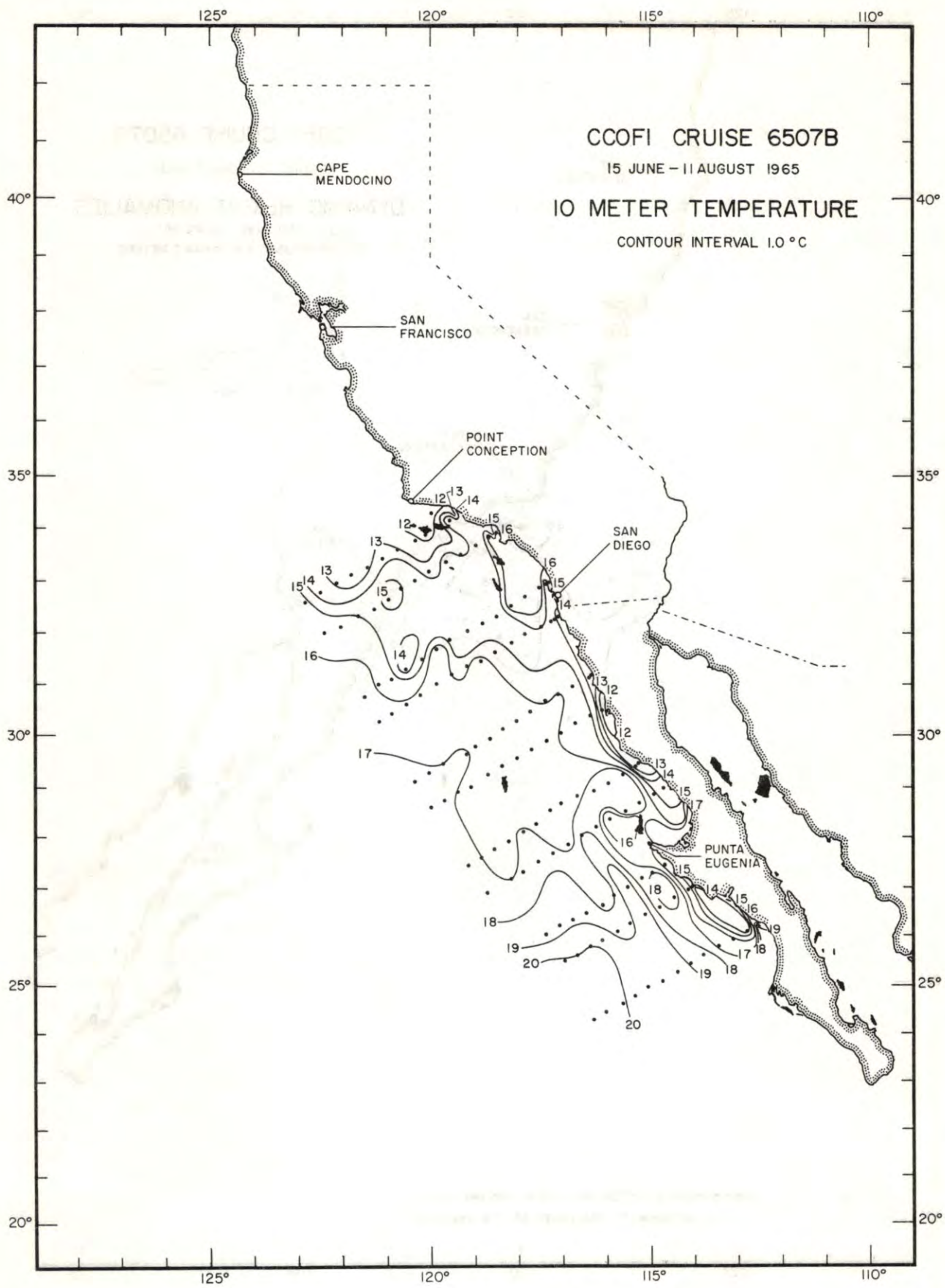


FIGURE 4

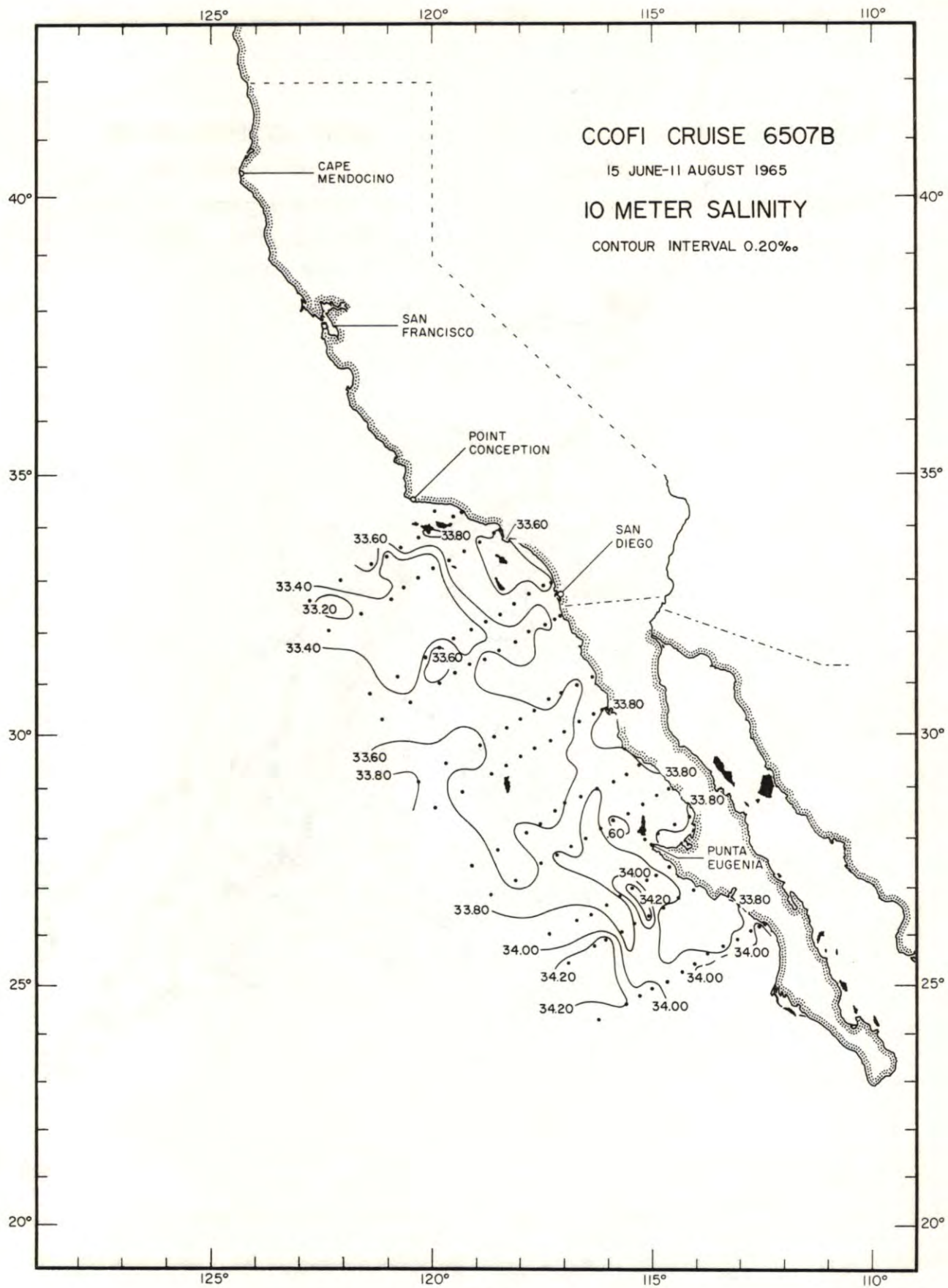


FIGURE 5

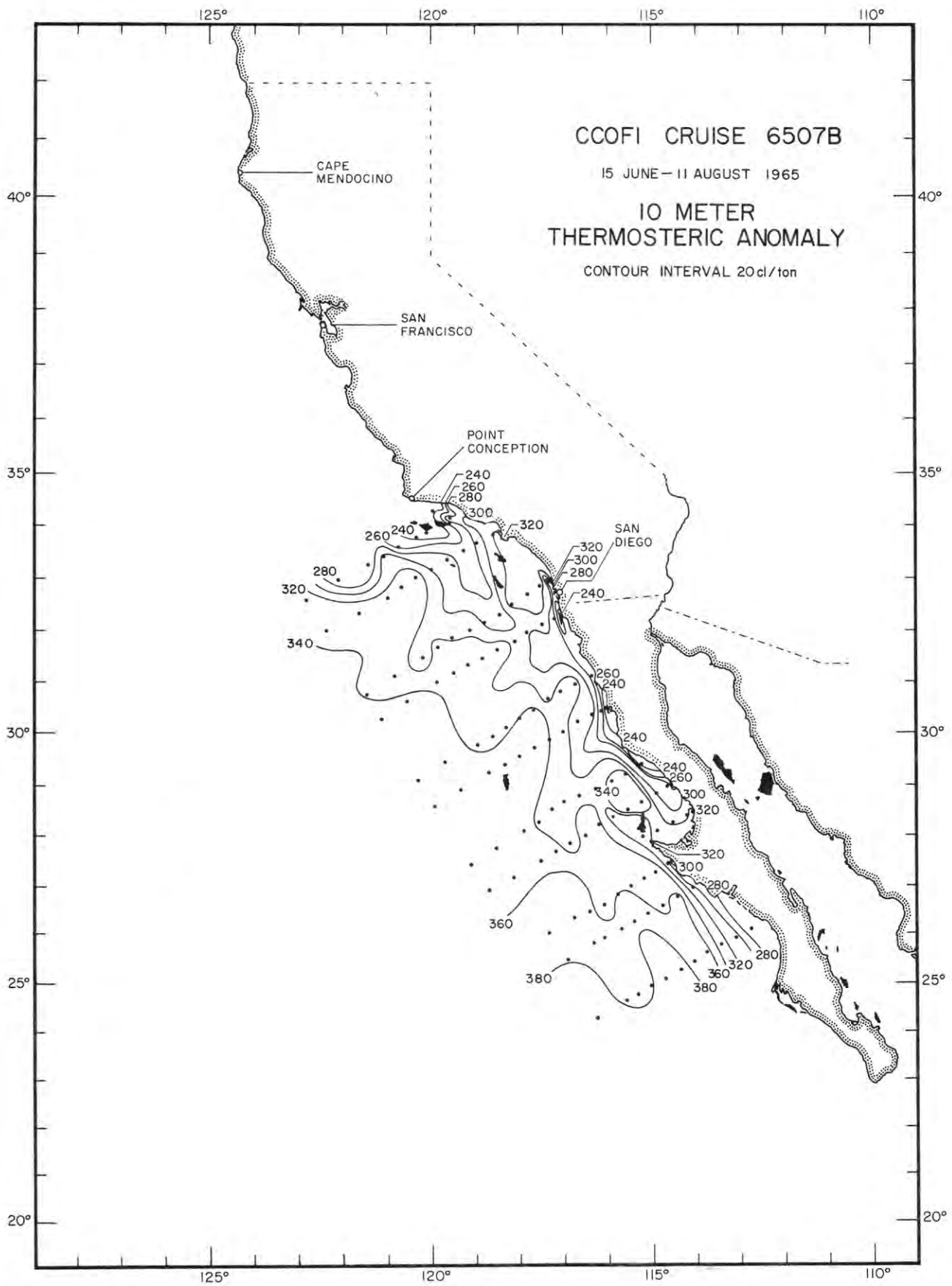


FIGURE 6

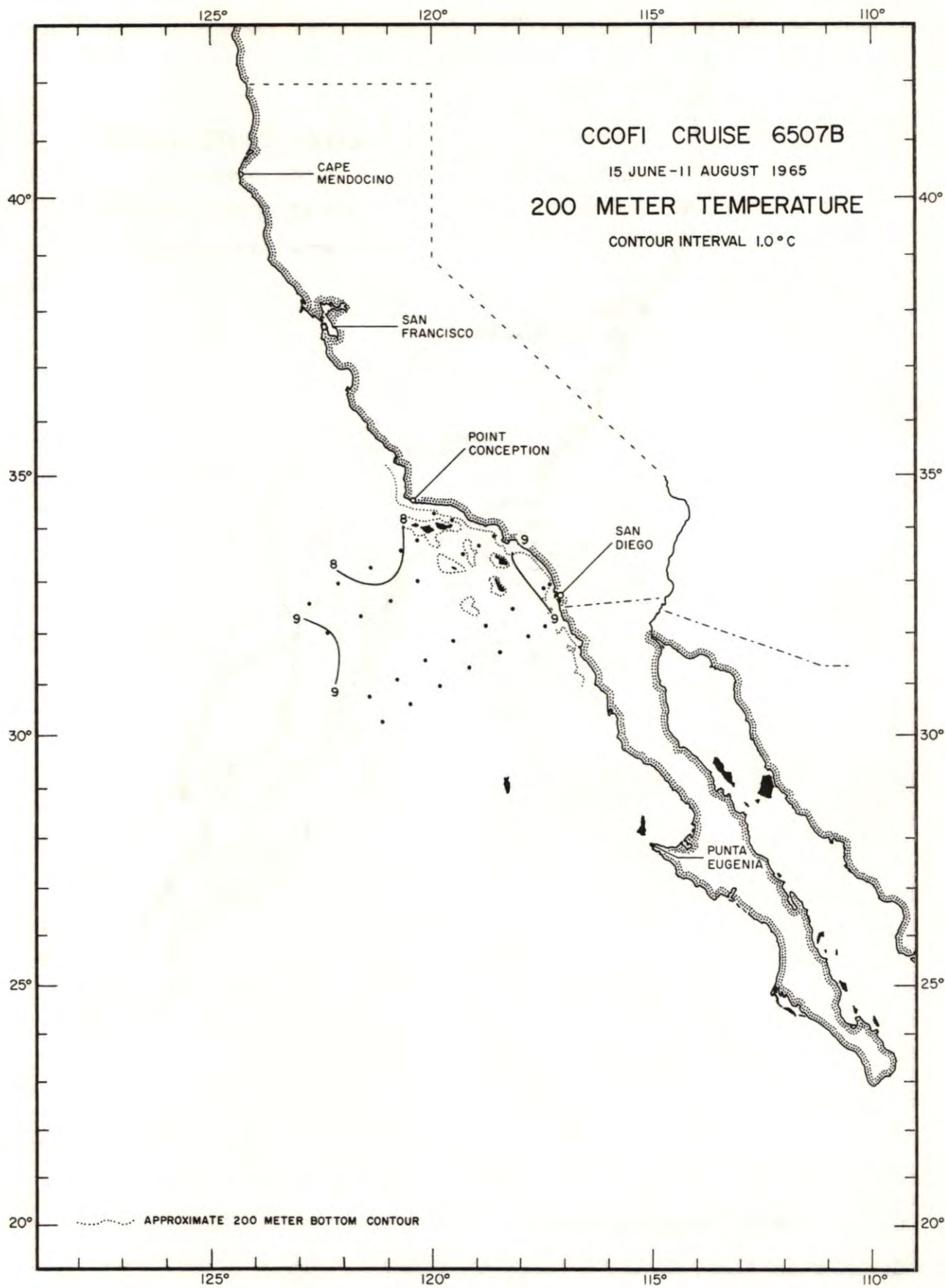


FIGURE 7

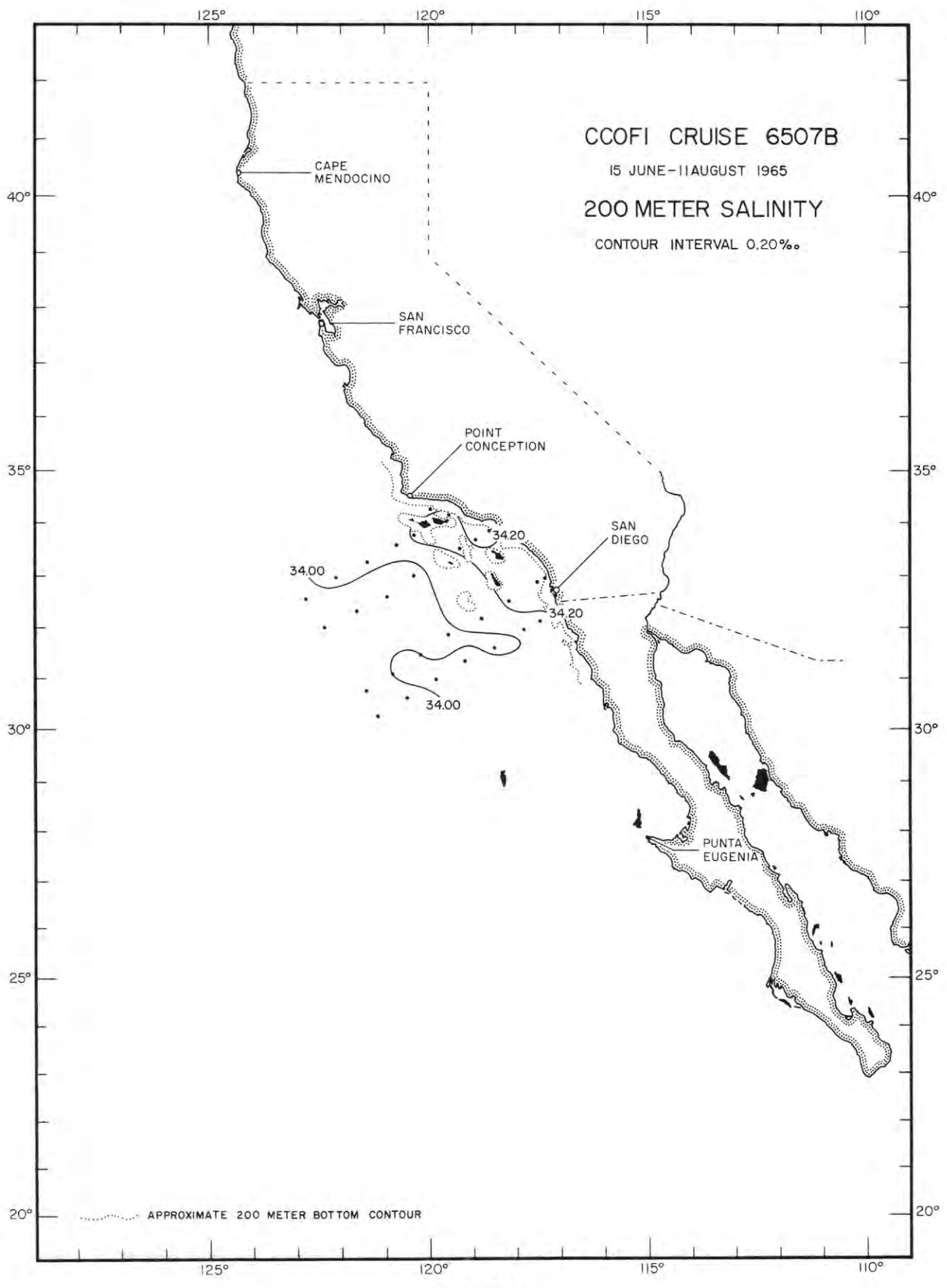


FIGURE 8

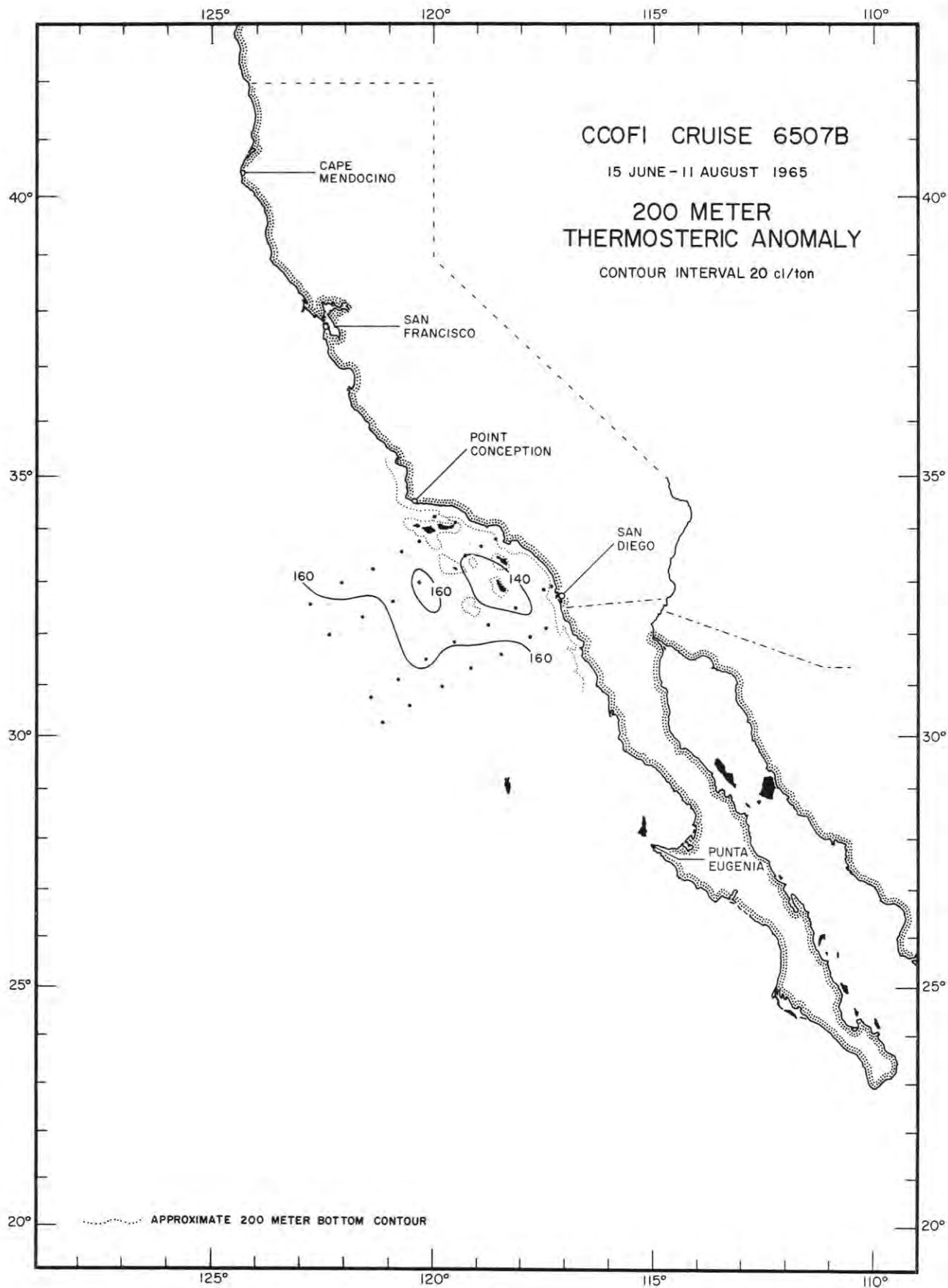


FIGURE 9

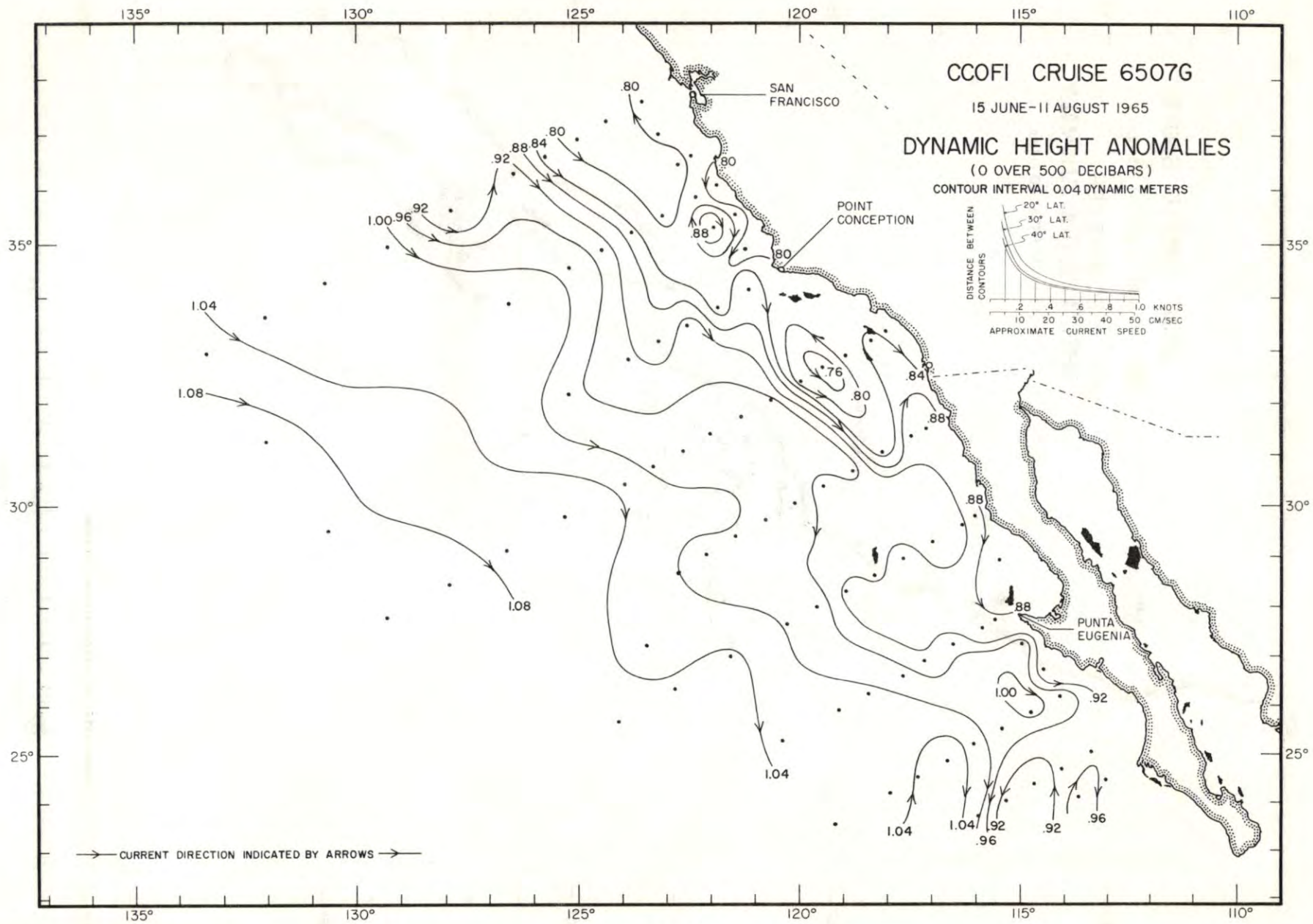


FIGURE 10

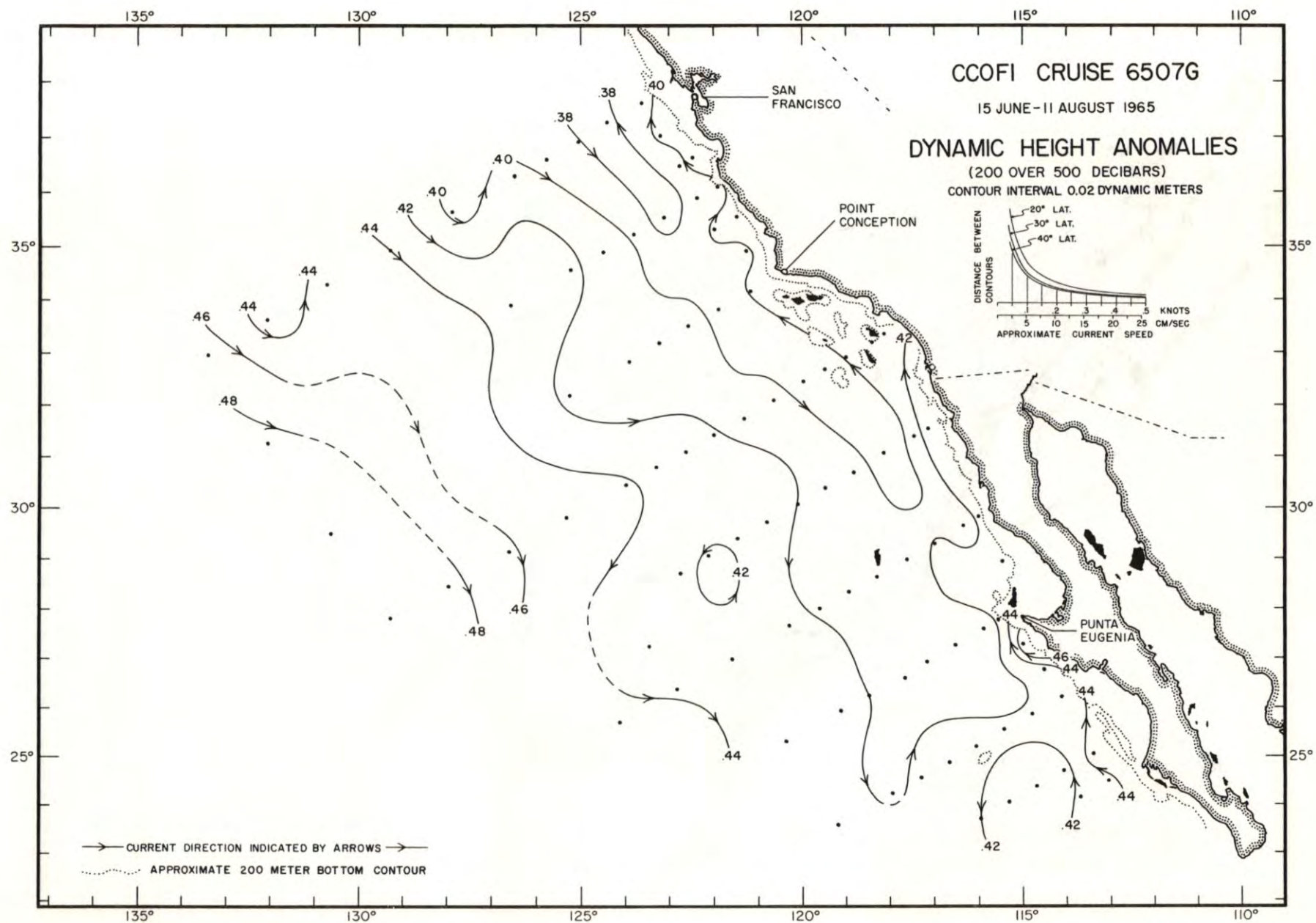


FIGURE 11

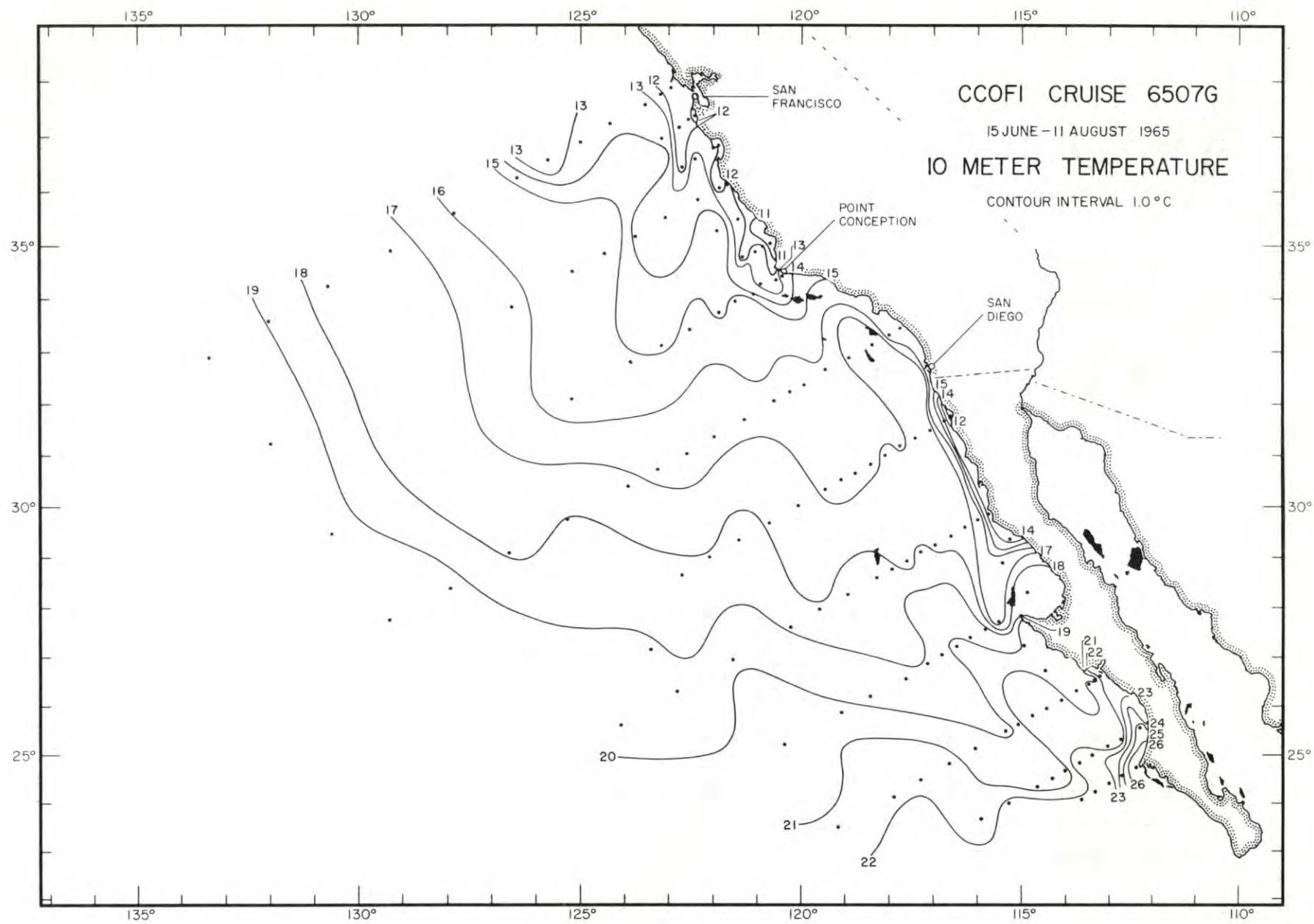


FIGURE 12

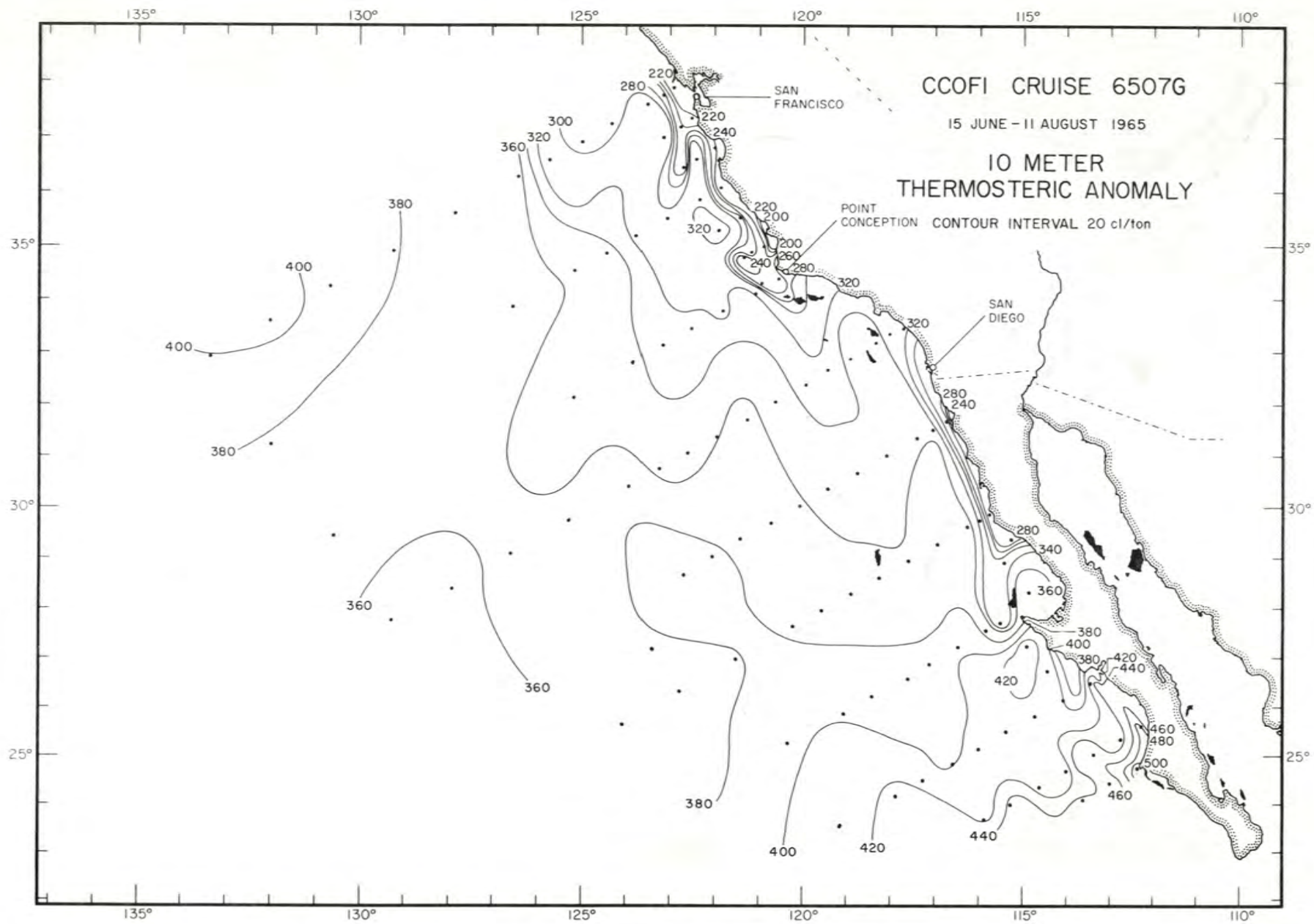


FIGURE 14

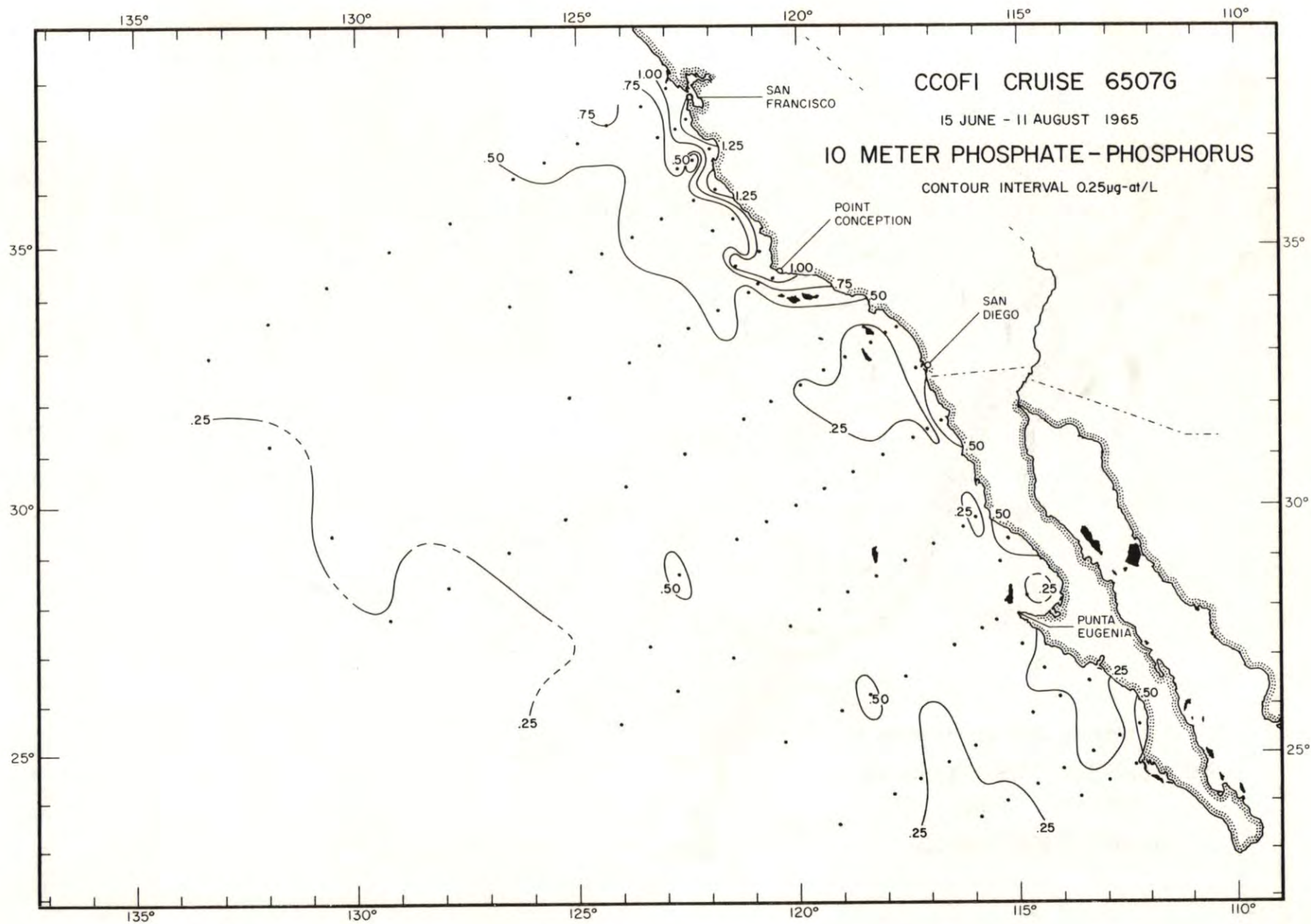


FIGURE 15

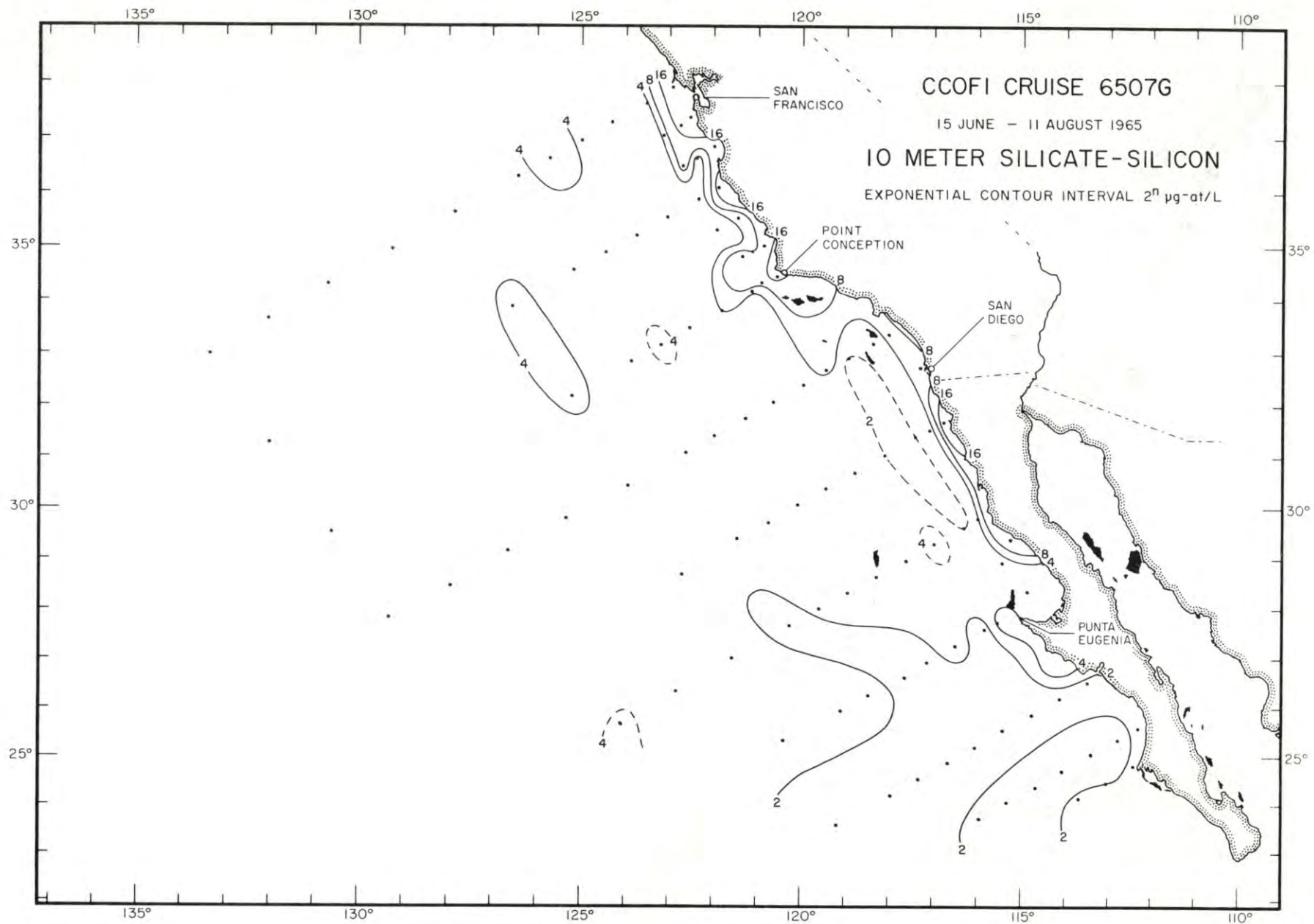


FIGURE 16

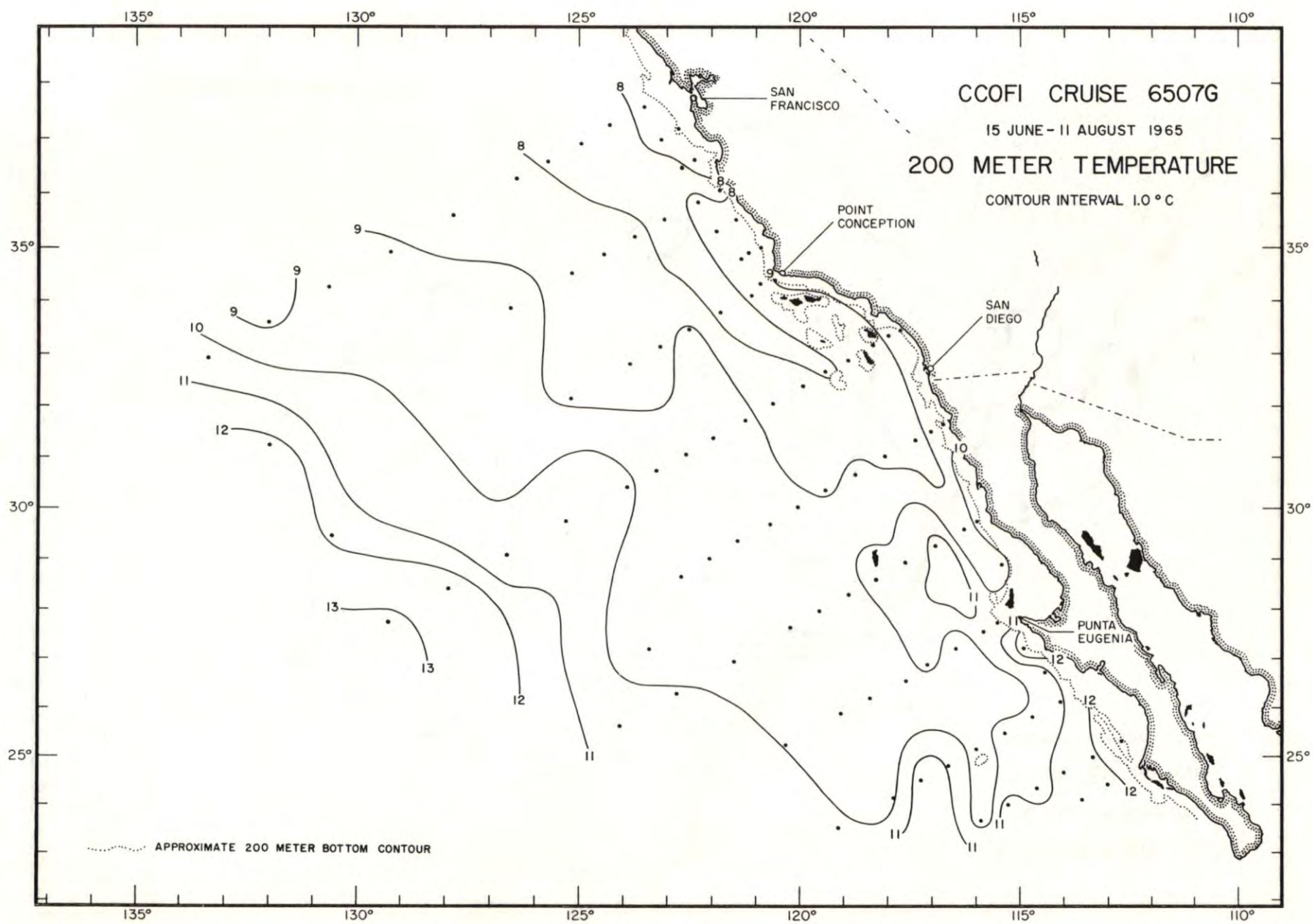


FIGURE 17

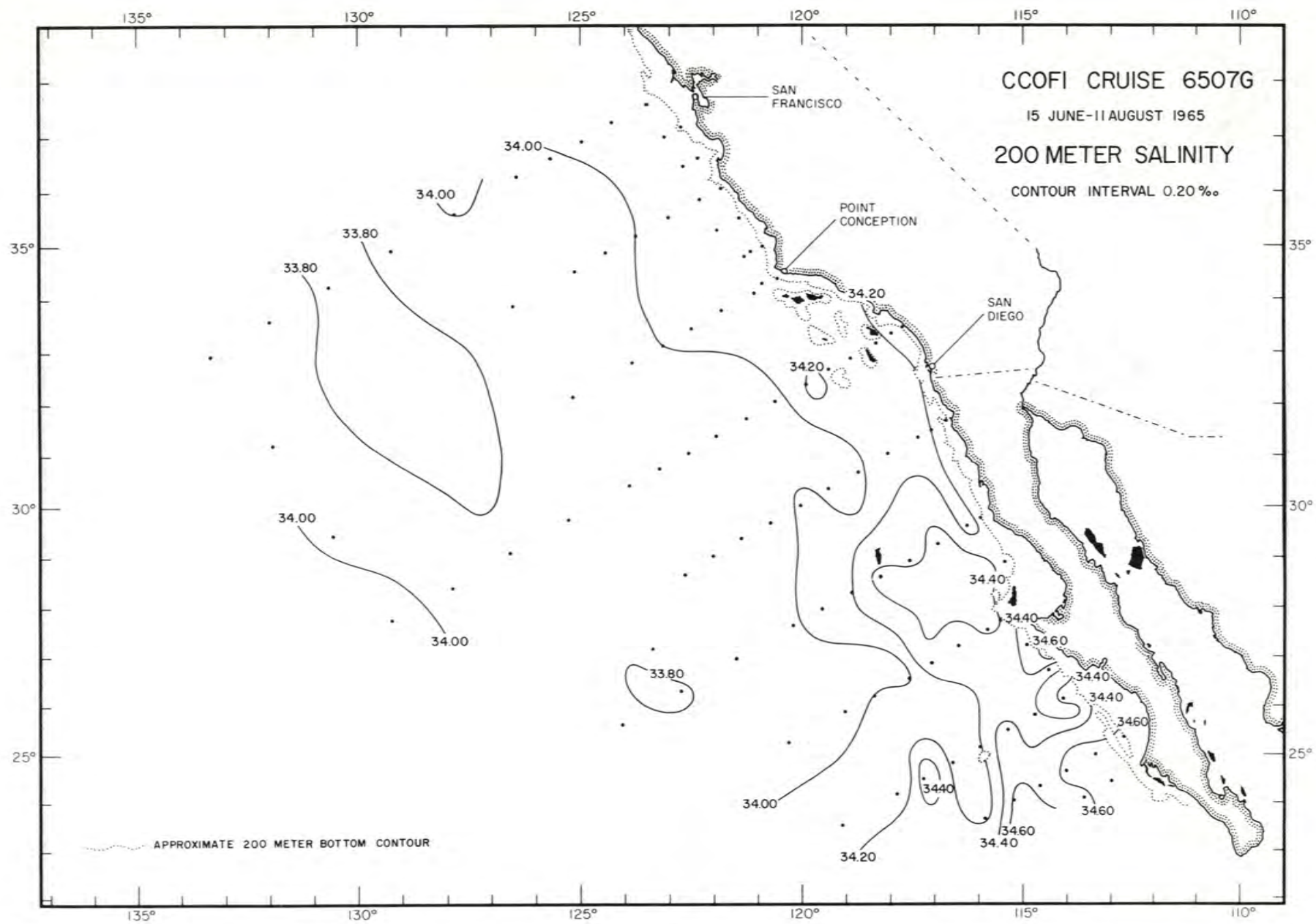


FIGURE 18

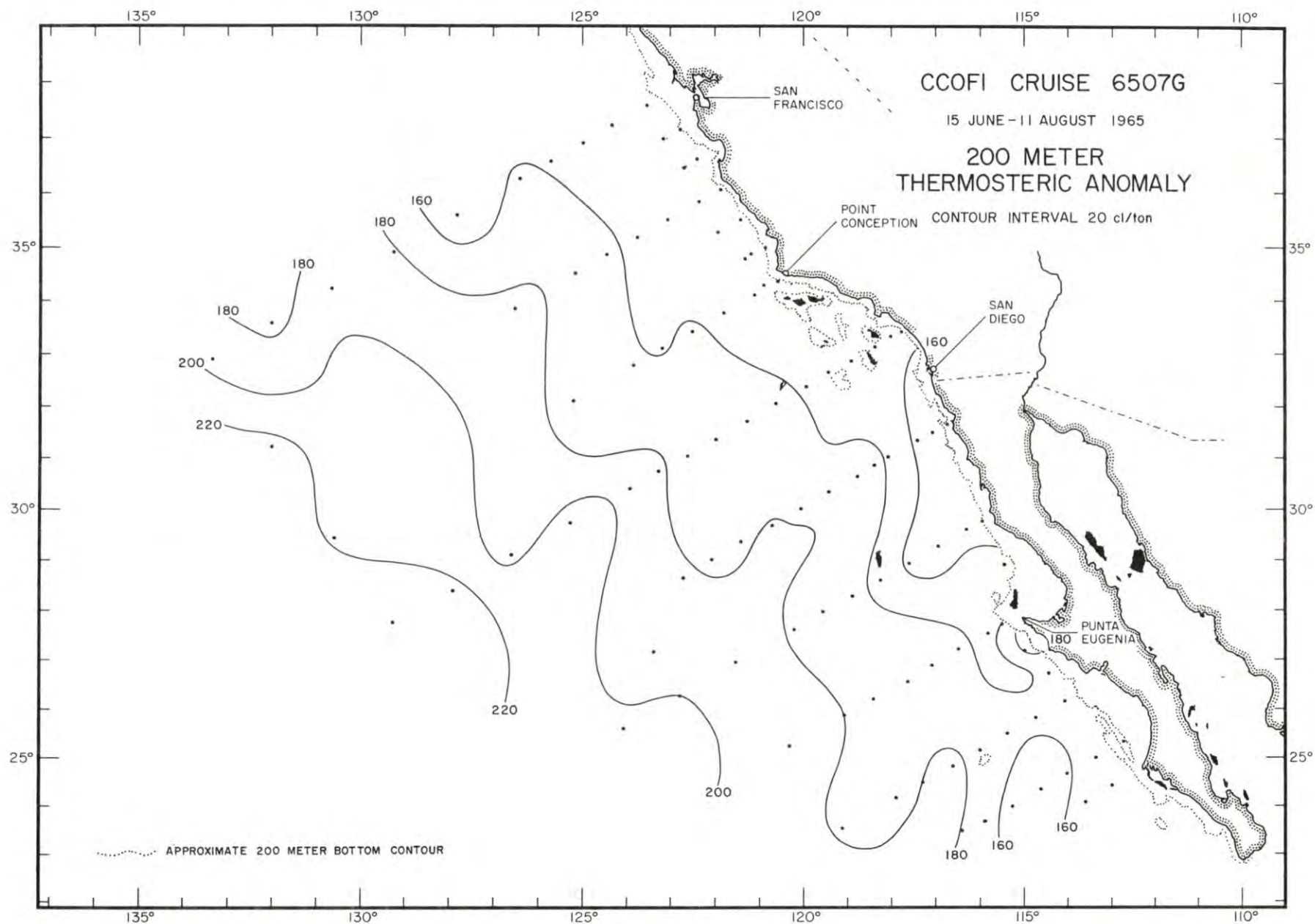


FIGURE 19

PERSONNEL
Cruise 6507

SHIPS' CAPTAINS

Davis, Laurence, RV Alexander Agassiz
Leed, Bjarne, RV Black Douglas

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

RV Alexander Agassiz

Hester, Arthur W., Senior Marine Technician (in charge)
Daniel, Dick A., Marine Technician
Davoll, Peter J., Marine Technician
Ferreira, Simon M., Electronics Technician
*Goodwin, Joseph B. III, Lieutenant, United States Coast Guard
Kavanagh, James A., Marine Technician
Muus, David A., Senior Marine Technician
**Paulling, Dr. John R., Associate Professor, Department of Naval Architecture,
University of California, Berkeley
Rodrigues, Daniel A., Student, Hydrographic Office, Portugal
Wagner, Vaughn M., Fisheries Technician, Bureau of Commercial Fisheries

RV Black Douglas

Farrar, Lloyd J., Biology Technician (Fisheries), Bureau of Commercial Fisheries
Kimura, Makoto, Fishery Biologist (General), Bureau of Commercial Fisheries
Perkins, Herbert C., Biology Technician (Fisheries), Bureau of Commercial
Fisheries
***Wilson, Warren E., Marine Technician
***Wirth, David, Marine Technician

*Northern half of cruise only.

**Southern half of cruise only.

***Hydrographic only.

OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH															
INPUT				COMPUTED				INPUT				COMPUTED											
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	CD									
60.52								CCOFI CRUISE 6507								60.52							
ALEXANDER AGASSIZ, JULY 17 1965, 0709 0642 GCT, 37 53.5N 123 02W, SOUNDING 46 FM, WIND 190 FORCE 1, WEATHER FOG, SEA SLIGHT.																							
0	13.24	33.470		A 0.21	3	0.04	279.4	0	13.18	33.49	-	25.21	276.8	0									
10	11.05	33.929	7.73	1.09	24	0.42	206.0	10	11.10	33.93	-	25.94	206.8	.024									
72	9.10	33.946	2.66	2.51	44	0.49	173.3	20	10.38	33.96	-	26.10	192.5	.044									
								30	10.07	33.96	-	26.15	187.4	.063									
60.60								CCOFI CRUISE 6507								60.60							
ALEXANDER AGASSIZ, JULY 17 1965, 1154 1109 GCT, 37 37N 123 37W, SOUNDING 1760 FM, WIND 320 FORCE 1, WEATHER OVERCAST, SEA MISSING, WIRE ANGLE 09.																							
1	14.04	33.095	5.888	0.58	4	0.05	322.5	0	13.86	33.08	-	24.75	320.1	0									
11	14.04	33.097	6.20	0.54	4	0.02	322.3	10	13.86	33.10	-	24.77	318.6	.032									
31	13.05	33.282	6.23	0.85	6	0.15	289.7	20	13.58	33.19	-	24.90	306.5	.063									
55	11.08	33.326	5.95	1.23	12	0.33	251.1	30	12.70	33.29	-	25.15	282.5	.093									
65	10.58	33.366	5.63	1.37	15	0.39	239.7	50	11.46	33.20	-	25.39	259.5	.147									
75	10.67	33.510	5.60	1.47	16	0.29	230.6	75	10.46	33.55	-	25.76	224.1	.208									
90	9.74	33.587	4.86	1.77	22	0.55	209.8	100	9.38	33.75	-	26.10	192.1	.260									
105	9.26	33.747	-	1.98	25	0.00	190.5	125	8.95	33.91	-	26.29	173.7	.307									
129	8.89	33.915	3.15	2.20	34	0.00	172.4	150	8.58	33.97	-	26.40	163.7	.349									
149	8.52	33.947	3.11	2.12	33	0.00	164.6	200	8.11	34.04	-	26.52	151.7	.430									
173	8.30	33.993	2.76	2.25	37	0.00	158.0	250	7.44	34.06	-	26.64	141.0	.505									
203	7.96	34.023	-	2.32	38	0.00	150.9	300	6.80	34.07	-	26.74	131.8	.575									
233	7.58	34.024	2.64	2.34	43	0.00	145.5	400	6.17	34.14	-	26.87	118.7	.705									
272	7.30	34.092	1.88	2.63	52	0.00	136.7	500	5.47	34.19	-	27.00	106.7	.824									
331	6.52	34.070	1.67	2.76	57	0.00	128.2	600	5.17	34.28	-	27.11	96.5	.932									
404	6.00	34.131	1.08	3.01	68	0.00	117.3																
478	5.46	34.145	.91	3.09	77	0.00	109.9																
557	5.22	34.248	.53	3.19	89	0.00	99.5																
60.70								CCOFI CRUISE 6507								60.70							
ALEXANDER AGASSIZ, JULY 17 1965, 1721 1653 GCT, 37 17N 124 21W, SOUNDING 2150 FM, WIND 350 FORCE 3, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 03.																							
0	13.62	33.384	6.76	0.75	3	0.20	293.1	0	13.67	33.40	-	25.04	292.9	0									
10	13.62	33.377	6.50	0.75	3	0.12	293.6	10	13.67	33.40	-	25.04	292.9	.029									
25	13.60	33.376	6.41	0.75	3	0.20	293.3	20	13.66	33.40	-	25.04	292.7	.059									
100	9.02	33.870	3.91	2.17	33	0.03	177.7	30	13.18	33.35	-	25.10	287.1	.088									
								50	10.25	33.60	-	25.84	217.0	.138									
								75	9.12	33.78	-	26.17	185.9	.189									
								100	8.99	33.89	-	26.27	175.8	.235									
								125	8.63	33.95	-	26.38	165.9	.278									
								150	8.27	33.98	-	26.45	158.5	.319									
								200	7.82	34.07	-	26.59	145.4	.396									
								250	7.02	34.08	-	26.71	133.9	.468									
								300	6.41	34.07	-	26.79	126.9	.535									
								400	5.92	34.17	-	26.93	113.4	.660									
								500	5.38	34.25	-	27.06	101.2	.773									
								600	4.95	34.31	-	27.16	91.9	.876									
60.80								CCOFI CRUISE 6507								60.80							
ALEXANDER AGASSIZ, JULY 17 1965, 2223 2145 GCT, 36 57N 125 04.5W, SOUNDING 2300 FM, WIND 330 FORCE 3, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 05.																							
2	13.96	33.356	6.50	0.56	2	0.17	301.8	0	14.02	33.38	-	24.95	301.2	0									
12	13.86	33.355	6.55	0.53	2	0.07	299.9	10	13.88	33.38	-	24.98	298.4	.030									
22	13.80	33.353	6.51	0.52	1	0.18	298.9	20	13.70	33.39	-	25.03	294.2	.060									
42	10.34	33.088	-	-	-	0.26	256.3	30	11.35	33.06	-	25.22	275.3	.088									
52	9.52	33.202	-	-	-	0.30	234.9	50	9.73	33.35	-	25.73	227.2	.139									
62	9.55	33.436	-	-	-	0.33	218.0	75	9.43	33.66	-	26.02	199.5	.192									
102	9.18	33.843	3.81	2.05	30	0.00	182.1	100	9.16	33.84	-	26.21	182.0	.240									
								125	8.57	33.92	-	26.36	167.3	.285									
								150	8.27	33.99	-	26.46	157.7	.326									
								200	7.81	34.05	-	26.58	146.8	.403									
								250	7.21	34.08	-	26.69	136.4	.476									
								300	6.72	34.11	-	26.78	127.8	.544									
								400	5.72	34.12	-	26.91	114.8	.670									
								500	5.25	34.21	-	27.04	102.7	.784									
								600	5.08	34.32	-	27.15	92.6	.888									

A) AN OXYGEN VALUE OF 12.84 AT THE SURFACE WAS CAREFULLY VERIFIED. NOTE SIMILAR HIGH VALUE ON STATION 63.52.
 B) THIS OXYGEN SAMPLE CONTAINED FOREIGN MATERIAL.

OBSERVED LEVELS OF DEPTH

STANDARD LEVELS OF DEPTH

INPUT								COMPUTED															
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD									
60.90								CCOFI CRUISE 6507								60.90							
ALEXANDER AGASSIZ, JULY 18 1965, 0310 0240 GCT, 36 37N 125 46.5W, SOUNDING 2410 FM, WIND 360 FORCE 3, WEATHER OVERCAST, SEA ROUGH, WIRE ANGLE 16.																							
0	12.34	32.896	6.53	0.75	5	0.18	304.9	0	12.83	32.78	-	24.73	322.4	0									
10	12.04	32.871	6.57	0.69	7	0.15	301.3	10	12.02	32.84	-	24.93	303.3	.031									
38	10.11	32.784	6.22	0.86	6	0.42	275.1	20	10.64	32.69	-	25.06	290.7	.061									
48	9.77	32.840	-	-	-	0.27	265.6	30	10.55	32.70	-	25.09	288.5	.090									
57	10.10	33.053	-	-	-	0.24	255.0	50	9.60	32.81	-	25.33	265.2	.146									
67	10.27	33.152	-	-	-	0.23	250.5	75	10.27	33.30	-	25.60	239.5	.209									
96	9.52	33.514	4.70	1.73	23	0.02	211.8	100	9.59	33.48	-	25.85	215.4	.266									
								125	9.69	33.78	-	26.07	194.7	.318									
								150	8.54	33.83	-	26.30	173.5	.365									
								200	7.86	33.98	-	26.51	152.7	.448									
								250	7.45	34.07	-	26.64	140.4	.523									
								300	6.93	34.09	-	26.73	132.0	.593									
								400	5.72	34.09	-	26.89	117.0	.722									
								500	5.38	34.20	-	27.02	104.9	.839									
								600	4.90	34.27	-	27.13	94.3	.945									

60.100

CCOFI CRUISE 6507

60.100

ALEXANDER AGASSIZ, JULY 18 1965, 0755 0817 GCT, 36 17N 126 30W, SOUNDING 2452 FM, WIND 010 FORCE 4, WEATHER OVERCAST, SEA MISSING, WIRE ANGLE 14.

0	14.74	32.742	6.04	0.47	2	0.00	362.4	0	14.75	32.74	-	24.31	362.7	0
10	14.74	32.745	6.09	0.45	3	0.00	362.2	10	14.75	32.75	-	24.31	362.0	.036
29	13.93	32.747	6.30	0.46	2	0.00	345.9	20	14.20	32.73	-	24.41	352.4	.072
97	9.98	32.880	5.92	0.97	8	0.16	265.9	30	13.93	32.75	-	24.49	345.6	.107
								50	13.00	32.71	-	24.64	330.8	.175
								75	11.32	32.78	-	25.01	295.5	.253
								100	10.23	32.94	-	25.33	265.5	.324
								125	9.71	33.37	-	25.75	225.4	.386
								150	9.20	33.80	-	26.17	185.6	.438
								200	8.42	33.94	-	26.40	163.6	.527
								250	7.78	34.02	-	26.56	148.6	.607
								300	7.06	34.04	-	26.68	137.4	.681
								400	6.27	34.13	-	26.85	120.6	.815
								500	5.62	34.19	-	26.98	108.4	.935
								600	5.15	34.28	-	27.11	96.3	1.044

60.120

CCOFI CRUISE 6507

60.120

ALEXANDER AGASSIZ, JULY 18 1965, 1654 1612 GCT, 35 37N 127 55W, SOUNDING 2540 FM, WIND 010 FORCE 4, WEATHER OVERCAST, SEA ROUGH, WIRE ANGLE 23.

1	15.83	32.900	5.99	0.48	2	0.00	373.5	0	15.93	32.94	-	24.20	372.7	0
10	15.84	32.891	6.01	0.42	3	0.00	374.4	10	15.92	32.94	-	24.20	372.5	.037
29	14.54	32.870	6.26	0.45	2	0.00	349.0	20	15.92	32.94	-	24.20	372.5	.075
38	13.13	32.856	6.59	0.44	2	0.01	322.5	30	14.00	32.74	-	24.46	347.7	.111
53	11.67	32.942	6.53	0.73	6	0.16	289.6	50	12.14	32.90	-	24.95	301.0	.176
66	10.52	32.998	5.98	1.00	9	0.25	265.9	75	10.34	33.16	-	25.48	251.0	.245
89	9.82	33.305	5.01	1.41	18	0.10	231.9	100	9.85	33.54	-	25.86	215.0	.304
108	9.59	33.580	4.23	1.76	23	0.03	208.0	125	9.18	33.72	-	26.11	191.3	.355
126	9.12	33.690	3.89	1.81	27	0.01	192.6	150	8.77	33.87	-	26.29	174.0	.411
145	8.94	33.818	3.37	2.00	30	0.01	180.4	200	8.06	34.00	-	26.50	154.0	.485
172	8.46	33.924	3.25	2.09	34	0.02	165.4	250	7.43	34.03	-	26.62	143.1	.561
204	8.03	33.984	3.07	2.15	38	0.00	154.8	300	6.77	34.04	-	26.72	133.6	.632
232	7.54	34.004	2.94	2.24	42	0.01	146.5	400	6.12	34.11	-	26.86	120.3	.764
279	6.96	34.020	2.59	2.42	50	0.01	137.6	500	5.44	34.19	-	27.00	106.3	.883
330	6.57	34.079	1.64	2.78	59	-	128.2	600	4.85	34.25	-	27.12	95.3	.990
412	5.74	34.090	1.47	2.94	71	-	117.3							
495	5.22	34.151	.95	3.12	82	-	106.8							
579	4.80	34.225	.57	3.24	97	-	96.6							

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH							
INPUT							COMPUTED							
Z	T	S	OXY	PHC	SIL	NIT	Z	T	S	OXY	SIG*T	D*T	DD	
60.140							CCOFI CRUISE 6507							60.140
ALEXANDER AGASSIZ, JULY 19 1965, 0145 0355 0600 GCT, 34 56.5N 129 19W, SOUNDING 2582 FM, WIND 010 FORCE 4, WEATHER OVERCAST, SEA ROUGH, WIRE ANGLE 31 35.														
1	17.54	33.263	5.71	0.45	3	0.00	384.8	0	17.62	33.32	-	24.10	382.4	0
9	17.54	33.262	5.73	0.37	3	0.00	384.8	10	17.62	33.33	-	24.11	381.7	.038
27	16.94	33.329	5.85	0.36	3	0.00	366.4	20	17.62	33.33	-	24.11	381.7	.076
35	16.37	33.317	5.95	0.36	2	0.00	354.7	30	17.11	33.37	-	24.26	367.2	.114
49	15.70	33.324	6.06	0.36	2	0.00	339.8	50	15.23	33.15	-	24.52	342.6	.185
62	15.13	33.301	6.11	0.39	3	0.00	329.5	75	14.02	33.18	-	24.80	315.9	.268
84	14.02	33.228	6.14	0.42	2	0.00	312.3	100	12.97	33.16	-	25.00	297.1	.345
101	12.54	33.132	5.90	0.53	4	0.07	291.2	125	11.43	33.27	-	25.37	261.2	.416
118	11.56	33.242	5.66	0.80	6	0.06	265.5	150	10.65	33.62	-	25.78	222.1	.477
135	11.34	33.467	5.22	0.93	9	0.01	245.1	200	9.14	33.85	-	26.22	181.0	.579
183	9.50	33.760	3.82	1.81	23	0.00	193.2	250	8.50	33.99	-	26.43	161.1	.667
272	8.04	34.022	2.70	2.27	38	0.00	152.1	300	7.93	34.05	-	26.56	148.5	.747
361	6.88	34.060	1.93	2.63	52	0.00	133.6	400	6.69	34.08	-	26.76	129.6	.891
451	6.17	34.122	1.17	2.95	66	0.00	120.0	500	5.87	34.14	-	26.91	115.1	1.019
540	5.53	34.178	.74	3.20	75	-	108.3	600	5.35	34.22	-	27.04	103.1	1.135
631	5.10	34.239	.53	3.34	86	-	98.8	700	4.78	34.28	-	27.15	92.3	1.240
714A	4.70	34.284	.44	3.20	97	-	91.1	800	4.39	34.34	-	27.24	83.7	1.336
723	4.60	34.291	.38	3.34	97	-	89.6	1000	3.81	34.43	-	27.37	71.2	1.507
816	4.37	34.355	.37	3.38	107	-	82.4	1200	3.33	34.48	-	27.46	63.0	1.658
910A	4.10	34.382	.39	3.31	116	-	77.6	1500	2.72	34.54	-	27.57	53.1	1.859
911	4.06	34.398	.72	3.36	116	-	76.0	2000	2.00	34.60	-	27.67	42.9	2.144
1007	3.79	34.436	.71	3.38	121	-	70.5	2500	1.72	34.64	-	27.73	37.8	2.390
1190A	3.35	34.482	.72	3.24	130	-	63.0	3000	1.60	34.66	-	27.75	35.5	2.621
1471A	2.80	34.530	1.02	3.16	145	-	54.5	4000	1.51	34.68	-	27.77	33.3	3.077
1752A	2.28	34.570	1.27	3.04	165	-	47.3							
2033A	1.98	34.604	1.81	2.95	165	-	42.4							
2319A	1.79	34.632	2.08	2.84	167	-	38.9							
2607A	1.68	34.643	2.36	2.83	163	-	37.3							
2892A	1.62	34.657	2.58	2.73	162	-	35.8							
3177A	1.56	34.664	2.77	2.73	162	-	34.9							
3469A	1.51	34.670	3.03	2.65	161	-	34.1							
3605A	1.50	34.673	3.17	2.64	161	-	33.8							
3746A	1.52	34.678	3.20	2.60	161	-	33.5							
3889A	1.51	34.679	3.30	2.59	158	-	33.4							
4031A	1.50	34.679	3.37	2.57	154	-	33.3							
4175A	1.52	34.684	3.45	2.55	154	-	33.1							
4319A	1.54	34.680	3.44	2.51	154	-	33.5							
4462A	1.54	34.680	3.42	2.47	157	-	33.5							
4608A	1.56	34.684	3.49	2.54	153	-	33.4							
4704A	1.58	34.683	3.48	2.41	157	-	33.6							

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH							
INPUT							COMPUTED							
Z	T	S	OXY	PHC	SIL	NIT	Z	T	S	OXY	SIG*T	D*T	DD	
60.160							CCOFI CRUISE 6507							60.160
ALEXANDER AGASSIZ, JULY 19 1965, 1448 1413 GCT, 34 16N 130 43W, SOUNDING 2726 FM, WIND 020 FORCE 5, WEATHER OVERCAST, SEA ROUGH, WIRE ANGLE 21.														
0	17.49	33.174	5.75	0.45	3	-	390.1	0	17.51	33.21	-	24.04	387.9	0
9	17.50	33.173	5.79	0.41	3	-	390.4	10	17.52	33.21	-	24.04	388.2	.039
23	17.23	33.279	5.81	0.40	3	-	376.6	20	17.29	33.30	-	24.16	376.4	.077
94	13.16	33.095	6.23	0.45	3	-	305.5	30	16.15	33.26	-	24.40	354.1	.114
								50	14.90	33.24	-	24.66	329.2	.182
								75	13.89	33.21	-	24.85	311.1	.263
								100	12.89	33.03	-	24.91	305.2	.340
								125	12.19	33.24	-	25.21	276.5	.414
								150	11.23	33.46	-	25.56	243.7	.480
								200	9.54	33.78	-	26.10	192.4	.590
								250	8.61	33.98	-	26.40	163.4	.681
								300	7.98	34.04	-	26.54	149.9	.762
								400	6.69	34.10	-	26.77	128.1	.907
								500	6.03	34.18	-	26.92	114.0	1.034
								600	5.25	34.24	-	27.07	100.4	1.148

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH							
INPUT							COMPUTED							
Z	T	S	OXY	PHC	SIL	NIT	Z	T	S	OXY	SIG*T	D*T	DD	
60.180							CCOFI CRUISE 6507							60.180
ALEXANDER AGASSIZ, JULY 19 1965, 2240 2210 GCT, 33 36.5N 132 05.5W, SOUNDING 2710 FM, WIND 010 FORCE 3, WEATHER PARTLY CLOUDY, SEA MODERATE, WIRE ANGLE 06.														
0	19.10	33.313	5.62	0.40	2	0.00	417.8	0	19.06	33.34	-	23.76	414.9	0
10	18.96	33.308	5.64	0.36	3	0.00	414.8	10	18.97	33.33	-	23.77	413.4	.041
30	17.07	33.288	5.96	0.36	2	0.00	372.3	20	18.77	33.30	-	23.80	410.8	.083
100	12.92	33.153	6.18	0.41	3	0.00	296.7	30	17.24	33.29	-	24.17	376.0	.122
								50	15.10	33.20	-	24.58	336.2	.194
								75	14.06	33.20	-	24.81	315.2	.275
								100	13.12	33.19	-	24.99	297.7	.353
								125	11.64	33.23	-	25.30	267.8	.424
								150	10.37	33.49	-	25.73	227.1	.487
								200	8.98	33.86	-	26.25	177.8	.589
								250	8.23	33.99	-	26.47	157.2	.675
								300	7.58	34.02	-	26.59	145.8	.753
								400	6.06	34.01	-	26.78	127.1	.855
								500	5.34	34.09	-	26.94	112.7	1.020
								600	4.84	34.19	-	27.07	99.7	1.132

A) OVERLAPPING CASTS, VALUES FOR STANDARD DEPTHS GREATER THAN 600 METERS WERE DETERMINED FROM RECONCILED PROPERTY CURVES.

OBSERVED LEVELS OF DEPTH STANDARD LEVELS OF DEPTH

INPUT							COMPUTED							INPUT							COMPUTED														
Z	T	S	OXY	PHI	SIL	NIT	D* ² T	Z	T	S	OXY	SIG* ² T	D* ² T	DD	Z	T	S	OXY	SIG* ² T	D* ² T	DD														
60.200																						CCOFI CRUISE 6507							60.200						
ALEXANDER AGASSIZ, JULY 20 1965, 0846 0806 GCT, 32 56N 133 27.5W, SOUNDING 2260 FM, WIND 080 FORCE 3, WEATHER MISSING, SEA SLIGHT, WIRE ANGLE 11.																																			
0	19.54	33.767	5.56	0.34	3	0.00	395.5	0	19.63	33.79	-	23.96	396.1	0	0	19.63	33.79	-	23.96	396.1	.040														
10	19.56	33.766	5.61	0.36	3	0.00	396.1	10	19.63	33.79	-	23.96	396.1	.040	10	19.63	33.79	-	23.96	396.1	.040														
29	18.56	33.775	5.81	0.41	3	0.00	371.3	20	18.77	33.80	-	24.18	374.5	.078	20	18.77	33.80	-	24.18	374.5	.078														
39	18.24	33.803	5.91	0.31	3	0.00	361.7	30	18.43	33.86	-	24.31	362.0	.115	30	18.43	33.86	-	24.31	362.0	.115														
54	16.83	33.882	6.06	0.30	3	0.00	323.6	50	17.12	34.00	-	24.74	321.5	.184	50	17.12	34.00	-	24.74	321.5	.184														
68	16.26	33.879	6.05	0.28	3	0.00	311.3	75	16.46	34.01	-	24.90	306.1	.263	75	16.46	34.01	-	24.90	306.1	.263														
93	16.24	34.053	5.88	0.28	3	0.00	298.2	100	16.63	34.25	-	25.05	292.4	.338	100	16.63	34.25	-	25.05	292.4	.338														
113	16.39	34.267	5.88	0.26	3	0.01	285.8	125	15.35	34.16	-	25.27	271.3	.409	125	15.35	34.16	-	25.27	271.3	.409														
133	14.15	33.982	5.58	0.46	4	0.02	259.7	150	13.10	33.92	-	25.56	243.7	.475	150	13.10	33.92	-	25.56	243.7	.475														
153	12.94	33.925	5.35	0.64	7	0.00	240.3	200	10.28	33.95	-	26.11	191.6	.586	200	10.28	33.95	-	26.11	191.6	.586														
182	11.12	33.937	5.12	0.96	11	0.00	206.6	250	9.60	34.07	-	26.31	171.8	.679	250	9.60	34.07	-	26.31	171.8	.679														
218	10.08	34.021	5.06	1.19	15	0.00	183.1	300	8.71	34.02	-	26.42	161.9	.765	300	8.71	34.02	-	26.42	161.9	.765														
247	9.42	34.035	5.06	1.23	-	0.00	171.6	400	6.97	34.00	-	26.66	139.2	.921	400	6.97	34.00	-	26.66	139.2	.921														
296	8.80	34.049	4.82	1.46	24	0.00	161.1	500	5.52	34.02	-	26.86	120.0	1.057	500	5.52	34.02	-	26.86	120.0	1.057														
349	7.86	34.015	4.17	1.81	33	-	150.1	600	4.78	34.12	-	27.02	104.3	1.175	600	4.78	34.12	-	27.02	104.3	1.175														
432	6.40	33.988	3.08	2.39	50	-	132.9																												
514	5.35	34.016	2.00	2.85	67	-	118.4																												
598	4.72	34.118	1.11	3.14	86	-	103.8																												

63.52																						CCOFI CRUISE 6507							63.52						
ALEXANDER AGASSIZ, JULY 15 1965, 0226 0210 GCT, 37 21N 122 37.5W, SOUNDING 43 FM, WIND 320 FORCE 2, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 04.																																			
0	13.82	33.376	A	0.14	6	0.04	297.6	0	13.85	33.38	-	24.99	297.8	0	0	13.85	33.38	-	24.99	297.8	.026														
10	11.14	33.715	6.84	1.38	20	0.14	223.4	10	11.33	33.71	-	25.73	227.0	.026	10	11.33	33.71	-	25.73	227.0	.026														
25	9.93	33.837	4.62	2.04	30	0.33	194.3	20	11.06	33.84	-	25.88	212.8	.048	20	11.06	33.84	-	25.88	212.8	.048														
50	9.05	33.928	2.58	2.33	42	0.04	173.9	30	10.46	33.88	-	26.02	199.7	.069	30	10.46	33.88	-	26.02	199.7	.069														
								50	9.55	33.88	-	26.17	185.1	.108	50	9.55	33.88	-	26.17	185.1	.108														
								75	9.03	33.98	-	26.34	169.7	.152	75	9.03	33.98	-	26.34	169.7	.152														

63.55																						CCOFI CRUISE 6507							63.55						
ALEXANDER AGASSIZ, JULY 15 1965, 0027 0014 GCT, 37 12.5N 122 49.5W, SOUNDING 150 FM, WIND 330 FORCE 3, WEATHER OVERCAST, SEA SLIGHT, WIRE ANGLE 07.																																			
0	11.88	33.349	6.15	1.07	12	0.26	263.3	0	11.95	33.37	-	25.35	263.0	0	0	11.95	33.37	-	25.35	263.0	.026														
10	11.20	33.395	5.95	1.15	16	0.12	248.0	10	11.26	33.42	-	25.52	247.2	.026	10	11.26	33.42	-	25.52	247.2	.026														
25	10.50	33.550	5.61	1.45	20	0.35	224.8	20	10.68	33.42	-	25.62	237.4	.050	20	10.68	33.42	-	25.62	237.4	.050														
99	8.90	33.956	2.48	2.36	39	0.18	169.5	30	10.59	33.56	-	25.75	225.5	.073	30	10.59	33.56	-	25.75	225.5	.073														
								50	10.29	33.76	-	25.96	205.8	.116	50	10.29	33.76	-	25.96	205.8	.116														
								75	9.64	33.87	-	26.15	187.3	.166	75	9.64	33.87	-	26.15	187.3	.166														
								100	9.09	33.95	-	26.30	172.8	.211	100	9.09	33.95	-	26.30	172.8	.211														
								125	8.78	34.01	-	26.40	163.7	.254	125	8.78	34.01	-	26.40	163.7	.254														
								150	8.72	34.02	-	26.42	162.1	.255	150	8.72	34.02	-	26.42	162.1	.255														
								200	8.55	34.05	-	26.47	157.3	.377	200	8.55	34.05	-	26.47	157.3	.377														
								250	7.93	34.10	-	26.60	144.7	.454	250	7.93	34.10	-	26.60	144.7	.454														

63.60																						CCOFI CRUISE 6507							63.60						
ALEXANDER AGASSIZ, JULY 14 1965, 2056 2022 GCT, 37 02.5N 123 11.5W, SOUNDING 1405 FM, WIND 300 FORCE 3, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 05.																																			
0	13.84	33.128	6.45	0.47	4	0.08	316.1	0	13.93	33.11	-	24.76	319.2	0	0	13.93	33.11	-	24.76	319.2	.032														
10	13.36	33.131	6.29	0.55	5	0.05	306.6	10	13.65	33.12	-	24.83	313.0	.032	10	13.65	33.12	-	24.83	313.0	.032														
40	11.68	33.313	6.01	1.04	11	0.31	262.4	20	13.10	33.13	-	24.95	301.8	.062	20	13.10	33.13	-	24.95	301.8	.062														
50	10.30	33.403	-	-	-	0.33	232.4	30	11.82	33.22	-	25.26	271.7	.091	30	11.82	33.22	-	25.26	271.7	.091														
60	9.72	33.528	-	-	-	0.11	213.8	50	10.74	33.31	-	25.53	246.5	.143	50	10.74	33.31	-	25.53	246.5	.143														
100	9.22	33.853	3.52	2.02	30	0.01	182.0	75	9.58	33.73	-	26.05	196.7	.199	75	9.58	33.73	-	26.05	196.7	.199														
								100	9.25	33.89	-	26.23	179.7	.246	100	9.25	33.89	-	26.23	179.7	.246														
								125	8.92	33.95	-	26.33	170.3	.291	125	8.92	33.95	-	26.33	170.3	.291														
								150	8.67	34.00	-	26.41	162.8	.333	150	8.67	34.00	-	26.41	162.8	.333														
								200	8.33	34.09	-	26.53	151.2	.413	200	8.33	34.09	-	26.53	151.2	.413														
								250	8.06	34.13	-	26.60	144.3	.489	250	8.06	34.13	-	26.60	144.3	.489														
								300	7.77	34.16	-	26.67	138.0	.562	300	7.77	34.16	-	26.67	138.0	.562														
								400	6.98	34.20	-	26.81	124.4	.659	400	6.98	34.20	-	26.81	124.4	.659														
								500	6.08	34.25	-	26.97	109.4	.822	500	6.08	34.25	-	26.97	109.4	.822														
								600	5.54	34.31	-	27.09	98.5	.933	600	5.54	34.31	-	27.09	98.5	.933														

AI AN OXYGEN VALUE OF 10.61 AT THE SURFACE WAS CAREFULLY VERIFIED. NOTE SIMILAR HIGH VALUE ON STATION 60.52.

OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED				INPUT				COMPUTED			
Z	T	S	CXY	PHO	SIL	NIT	D*T	Z	T	S	CXY	SIG*T	D*T	DD	
67.50								67.50							
CCOFI CRUISE 6507															
ALEXANDER AGASSIZ, JULY 14 1965, 0955 0940 GCT, 36 49N 122 04.5W, SOUNDING 60 FM, WIND 310 FORCE 3, WEATHER FOG, SEA SLIGHT, WIRE ANGLE 04.															
0	12.46	33.634	6.21	1.32	13	0.28	252.8	0	12.52	33.66	-	25.47	252.0	0	
10	12.04	33.612	6.11	1.20	13	0.10	246.8	10	12.02	33.62	-	25.53	245.8	.025	
25	11.34	33.642	5.58	1.40	14	0.32	232.2	20	11.64	33.64	-	25.62	237.6	.049	
100	8.91	33.908	3.02	2.18	34	0.11	173.2	30	11.06	33.66	-	25.74	226.1	.072	
								50	9.48	33.78	-	26.11	191.4	.114	
								75	9.25	33.88	-	26.22	180.5	.161	
								100	8.99	33.94	-	26.31	172.1	.206	
67.55								67.55							
CCOFI CRUISE 6507															
ALEXANDER AGASSIZ, JULY 14 1965, 1250 1222 GCT, 36 38N 122 27.5W, SOUNDING 1220 FM, WIND 320 FORCE 4, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 11.															
0	13.89	33.108	6.28	0.50	4	0.05	318.6	0	13.94	33.14	-	24.78	317.2	0	
10	13.89	33.103	6.27	0.50	4	0.02	319.0	10	13.90	33.14	-	24.79	316.4	.032	
15	13.78	33.106	6.33	0.52	4	0.06	316.6	20	12.80	33.11	-	24.99	297.6	.062	
98	9.16	33.944	2.78	2.35	33	0.04	174.3	30	12.45	33.26	-	25.17	280.1	.091	
								50	10.67	33.56	-	25.73	226.9	.142	
								75	9.97	33.74	-	25.99	202.1	.196	
								100	9.32	33.91	-	26.23	179.3	.244	
								125	9.06	34.00	-	26.35	168.7	.288	
								150	8.99	34.02	-	26.37	166.1	.331	
								200	8.65	34.06	-	26.46	158.1	.414	
								250	8.05	34.15	-	26.62	142.7	.491	
								300	7.70	34.16	-	26.68	137.1	.563	
								400	7.17	34.23	-	26.81	124.7	.659	
								500	6.65	34.25	-	26.90	116.4	.827	
								600	5.70	34.25	-	27.02	104.8	.945	
67.60								67.60							
CCOFI CRUISE 6507															
ALEXANDER AGASSIZ, JULY 14 1965, 1549 1524 GCT, 36 29N 122 47.5W, SOUNDING 1680 FM, WIND 340 FORCE 2, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 08.															
0	12.66	33.424	6.35	0.91	9	0.21	271.9	0	12.80	33.40	-	25.21	276.3	0	
10	12.07	33.522	6.59	0.88	9	0.23	253.9	10	11.63	33.52	-	25.53	246.3	.026	
30	10.13	33.646	4.69	1.55	19	0.26	211.6	20	11.46	33.69	-	25.69	230.7	.050	
99	9.20	33.848	3.48	2.06	30	0.02	182.1	30	10.07	33.63	-	25.89	211.9	.072	
								50	9.96	33.74	-	26.00	202.0	.114	
								75	9.73	33.77	-	26.06	196.1	.164	
								100	9.23	33.85	-	26.20	182.4	.212	
								125	8.83	33.94	-	26.34	169.7	.256	
								150	8.62	33.97	-	26.39	164.3	.298	
								200	7.69	34.03	-	26.58	146.6	.378	
								250	7.28	34.08	-	26.68	137.3	.450	
								300	6.61	34.05	-	26.74	130.9	.520	
								400	5.87	34.12	-	26.90	116.6	.648	
								500	5.46	34.21	-	27.02	105.1	.764	
								600	5.30	34.31	-	27.12	95.8	.871	
70.53								70.53							
CCOFI CRUISE 6507															
ALEXANDER AGASSIZ, JULY 13 1965, 2245 2213 GCT, 36 06.5N 121 54W, SOUNDING 540 FM, WIND 010 FORCE 2, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 00.															
0	13.22	33.368	6.25	1.00	11	0.18	286.6	0	13.03	33.35	-	25.13	284.3	0	
10	11.88	33.526	5.91	1.31	17	0.11	250.2	10	11.27	33.53	-	25.60	239.2	.026	
20	10.94	33.532	5.51	1.40	17	0.28	233.5	20	11.08	33.54	-	25.65	235.3	.050	
40	10.40	33.661	-	-	-	0.38	214.9	30	10.90	33.61	-	25.73	227.0	.073	
50	10.20	33.696	-	-	-	0.47	209.1	50	10.18	33.71	-	25.94	207.7	.117	
60	9.69	33.739	-	-	-	0.08	197.7	75	9.38	33.82	-	26.15	186.9	.166	
100	9.26	33.898	3.11	2.16	32	0.04	179.3	100	9.36	33.91	-	26.23	179.9	.213	
								125	9.07	33.92	-	26.28	174.7	.258	
								150	8.65	33.98	-	26.40	164.0	.301	
								200	7.95	34.03	-	26.54	150.2	.381	
								250	7.84	34.11	-	26.62	142.7	.456	
								300	7.36	34.14	-	26.71	133.9	.527	
								400	6.78	34.23	-	26.86	119.6	.659	
								500	6.26	34.30	-	26.99	107.8	.779	
								600	5.72	34.32	-	27.07	99.8	.890	

OBSERVED LEVELS OF DEPTH

STANDARD LEVELS OF DEPTH

INPUT								COMPUTED															
Z	T	S	CXY	PHO	SIL	NIT	D*T	Z	T	S	CXY	SIG*T	D*T	DD									
70.60								CCOFI CRUISE 6507								70.60							
ALEXANDER AGASSIZ, JULY 13 1965, 1851 1810 GCT, 35 53N 122 23W, SOUNDING 1700 FM, WIND 360 FORCE 2, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 02.																							
0	14.27	33.189	6.24	0.53	3	0.07	320.2	0	14.23	33.18	-	24.75	320.0	0									
10	14.26	33.188	6.27	0.54	3	0.04	320.0	10	13.91	33.21	-	24.84	311.5	.032									
30	13.74	33.237	6.34	-	3	0.12	306.2	20	13.78	33.24	-	24.89	306.8	.063									
40	11.63	33.301	6.23	1.03	9	0.34	262.4	30	13.74	33.25	-	24.91	305.2	.093									
50	10.94	33.364	5.84	1.26	13	0.65	245.9	50	11.04	33.36	-	25.51	247.9	.149									
65	10.56	33.452	5.66	1.42	16	0.53	233.0	75	9.79	33.57	-	25.89	211.8	.206									
80	9.64	33.571	4.76	1.79	24	0.11	209.4	100	9.36	33.76	-	26.11	191.0	.257									
100	9.36	33.724	3.78	1.95	26	0.02	193.7	125	8.89	33.88	-	26.28	175.0	.304									
125	8.92	33.862	3.23	2.12	32	0.00	176.8	150	8.70	33.95	-	26.36	167.0	.347									
146	8.73	33.919	2.89	2.22	35	0.00	169.7	200	8.19	34.05	-	26.52	152.1	.428									
176	8.42	33.985	2.66	2.28	36	0.00	160.3	250	7.38	34.04	-	26.63	141.6	.504									
206	8.10	34.052	2.16	2.47	41	-	150.7	300	6.87	34.07	-	26.73	132.7	.574									
236	7.36	34.002	2.81	2.31	43	-	144.2	400	6.06	34.12	-	26.87	118.8	.705									
276	7.04	34.027	2.24	2.54	50	-	138.1	500	5.44	34.20	-	27.01	105.6	.823									
335	6.44	34.060	1.66	2.81	59	-	128.0	600	4.98	34.29	-	27.14	93.7	.929									
409	5.88	34.106	1.19	3.01	69	-	117.7																
483	5.36	34.161	.86	3.17	80	-	107.6																
563	5.00	34.238	.56	3.28	95	-	97.8																

70.70 CCOFI CRUISE 6507 70.70

ALEXANDER AGASSIZ, JULY 13 1965, 1346 1322 GCT, 35 33N 123 06W, SOUNDING 2027 FM, WIND 350 FORCE 4, WEATHER OVERCAST, SEA ROUGH, WIRE ANGLE 03.

0	13.82	33.263	6.30	0.57	3	0.11	305.8	0	13.86	33.30	-	24.92	303.9	0
10	13.82	33.257	6.33	0.57	3	0.05	306.3	10	13.86	33.30	-	24.92	303.9	.030
30	13.84	33.310	6.28	0.61	4	0.10	302.8	20	13.90	33.35	-	24.95	301.0	.061
100	9.22	33.755	3.57	1.90	29	0.02	189.3	30	13.86	33.34	-	24.95	301.0	.091
								50	11.33	33.45	-	25.53	246.2	.146
								75	9.89	33.59	-	25.89	211.9	.203
								100	9.26	33.79	-	26.15	187.3	.254
								125	8.79	33.92	-	26.33	170.5	.299
								150	8.41	34.02	-	26.46	157.5	.341
								200	7.81	34.08	-	26.60	144.5	.418
								250	7.23	34.11	-	26.71	134.4	.489
								300	6.68	34.12	-	26.79	126.5	.556
								400	6.01	34.17	-	26.92	114.5	.682
								500	5.50	34.26	-	27.05	101.8	.796
								600	5.13	34.32	-	27.14	93.1	.899

70.80 CCOFI CRUISE 6507 70.80

ALEXANDER AGASSIZ, JULY 13 1965, 0845 0825 GCT, 35 13N 123 48W, SOUNDING 2180 FM, WIND 350 FORCE 5, WEATHER OVERCAST, SEA ROUGH, WIRE ANGLE 12.

0	13.87	33.120	6.34	0.54	2	0.09	317.3	0	13.89	33.16	-	24.81	314.8	0
10	13.88	33.122	6.35	0.53	3	0.05	317.4	10	13.89	33.16	-	24.81	314.8	.031
34	13.86	33.125	6.36	0.53	1	0.10	316.8	20	13.89	33.16	-	24.81	314.8	.063
98	9.99	33.428	4.65	1.54	19	0.02	225.5	30	13.89	33.16	-	24.81	314.8	.095
								50	13.03	33.07	-	24.91	304.9	.157
								75	10.91	33.27	-	25.47	252.3	.227
								100	9.90	33.57	-	25.87	213.6	.285
								125	9.16	33.74	-	26.13	189.5	.336
								150	9.68	33.87	-	26.14	187.9	.364
								200	8.14	34.00	-	26.49	155.1	.472
								250	7.70	34.04	-	26.59	146.0	.549
								300	6.81	34.08	-	26.74	131.2	.620
								400	6.02	34.13	-	26.88	117.6	.749
								500	5.51	34.19	-	27.00	107.1	.867
								600	5.00	34.25	-	27.10	96.9	.976

OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED				INPUT				COMPUTED			
Z	T	S	OXY	PHC	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	CC	
70.90								70.90							
CCOFI CRUISE 6507															
ALEXANDER AGASSIZ, JULY 12-13 1965, 2355 0201 0028 GCT, 34 53N 124 29.5W, SOUNDING 2300 FM, WIND 330 FORCE 5, WEATHER OVERCAST, SEA VERY ROUGH, WIRE ANGLE 25 52.															
0	15.18	33.057	6.06	0.41	2	0.01	348.4	0	15.32	33.06	-	24.43	351.1	0	
8	15.18	33.049	6.05	0.42	3	0.00	348.9	10	15.32	33.06	-	24.43	351.1	.035	
32	15.14	33.055	6.06	0.41	2	0.00	347.7	20	15.32	33.06	-	24.43	351.1	.070	
60	12.62	32.958	6.56	0.42	3	0.00	305.5	30	15.32	33.07	-	24.44	350.3	.105	
69	12.42	32.955	6.41	0.41	3	0.00	302.0	50	12.82	32.94	-	24.85	310.5	.172	
86	11.96	32.947	6.34	0.46	4	0.01	294.3	75	12.36	32.99	-	24.98	298.4	.248	
100	10.78	33.002	5.83	0.83	7	0.12	269.9	100	11.04	32.98	-	25.22	275.9	.320	
114	10.08	33.173	5.46	1.02	9	0.04	245.8	125	9.87	33.30	-	25.67	233.1	.385	
141	9.54	33.630	3.85	1.88	25	0.00	203.5	150	9.50	33.71	-	26.05	196.9	.439	
160	9.08	33.755	3.97	1.77	26	0.00	187.1	200	8.60	33.95	-	26.38	165.5	.531	
186	8.68	33.895	4.09	1.76	27	0.01	170.8	250	7.94	34.02	-	26.53	150.8	.612	
217	8.34	33.974	3.54	1.95	33	0.00	159.9	300	7.27	34.04	-	26.65	140.2	.687	
243	8.01	34.006	2.96	2.19	38	0.00	152.9	400	6.20	34.07	-	26.81	124.3	.825	
289	7.34	34.011	2.71	2.35	46	0.00	143.3	500	5.72	34.19	-	26.97	109.6	.947	
346	6.70	34.044	1.91	2.69	56	0.00	132.4	600	5.21	34.26	-	27.09	98.5	1.058	
433	5.86	34.102	1.22	2.99	70	0.00	117.8	700	4.60	34.32	-	27.20	87.4	1.158	
513	5.50	34.190	.71	3.19	81	0.00	107.0	800	4.20	34.37	-	27.29	79.5	1.249	
580	5.10	34.239	.43	3.27	92	0.00	98.8	1000	3.82	34.45	-	27.39	69.8	1.414	
673	4.70	34.303	.45	3.32	117U	0.00	89.7	1200	3.33	34.50	-	27.48	61.4	1.563	
818	4.17	34.381	.44	3.34	101U	0.00	78.4	1500	2.75	34.55	-	27.57	52.6	1.761	
931A	4.02	34.440	.64	3.27	114	-	72.5	2000	2.06	34.61	-	27.68	42.6	2.044	
1008A	3.78	34.452	.65	3.31	123	-	69.2	2500	1.77	34.64	-	27.72	38.2	2.292	
1163A	3.42	34.488	.90	3.22	127	-	63.2	3000	1.62	34.66	-	27.75	35.6	2.526	
1325A	3.08	34.523	1.08	3.22	136	-	57.5	4000	1.53	34.67	-	27.76	34.2	2.988	
1527A	2.70	34.558	1.23	3.08	150	-	51.6								
1734A	2.38	34.574	1.52	3.09	156	-	47.8								
1937A	2.14	34.602	1.86	3.01	159	-	43.8								
2103A	1.97	34.620	1.98	2.99	164	-	41.2								
2273A	1.87	34.629	2.14	2.92	168	-	39.7								
2443A	1.79	34.633	2.24	2.92	168	-	38.9								
2613A	1.72	34.642	2.49	2.82	169	-	37.7								
2783A	1.67	34.651	2.68	2.82	167	-	36.6								
2955A	1.65	34.657	2.78	2.81	168	-	36.0								
3125A	1.59	34.660	2.85	2.76	168	-	35.4								
3259A	1.57	34.662	2.99	2.76	167	-	35.1								
3388A	1.54	34.675	3.06	2.76	167	-	33.9								
3520A	1.52	34.680	3.07	2.67	167	-	33.4								
3653A	1.51	34.665	3.24	2.63	166	-	34.5								
3789A	1.50	34.671	3.10	2.64	163	-	33.9								
3871A	-	34.680	3.20	2.63	164	-	-								
3880A	1.52	34.680	3.30	2.61	168	-	33.4								

70.100

CCOFI CRUISE 6507

70.100

ALEXANDER AGASSIZ, JULY 12 1965, 1849 1816 GCT, 34 33N 125 12W, SOUNDING 2430 FM, WIND 350 FORCE 5, WEATHER OVERCAST, SEA VERY ROUGH, WIRE ANGLE 13.

0	15.48	33.022	6.01	0.37	3	0.00	357.2	0	15.53	33.04	-	24.37	356.9	0
10	15.48	33.010	6.04	0.36	3	0.00	358.1	10	15.53	33.04	-	24.37	356.9	.036
49	15.24	33.021	6.06	0.37	2	0.00	352.2	20	15.53	33.04	-	24.37	356.9	.071
97	12.30	32.962	6.398	0.40	3	0.00	299.3	30	15.53	33.04	-	24.37	356.9	.107
								50	15.17	33.03	-	24.44	350.1	.178
								75	13.56	33.04	-	24.78	317.2	.262
								100	12.33	32.99	-	24.99	297.8	.339
								125	10.74	33.13	-	25.39	259.8	.410
								150	9.71	33.47	-	25.83	218.0	.470
								200	8.80	33.86	-	26.28	175.1	.570
								250	8.22	33.99	-	26.47	157.0	.655
								300	7.64	34.05	-	26.60	144.4	.733
								400	6.31	34.09	-	26.82	124.1	.872
								500	5.52	34.15	-	26.96	110.2	.995
								600	4.95	34.23	-	27.09	97.9	1.105

A) CAST 11, VALUES FOR STANDARD DEPTHS GREATER THAN 600 METERS WERE DETERMINED FROM THESE CASTS.

B) ALTERNATE VALUE, 5.50.

OBSERVED LEVELS OF DEPTH STANDARD LEVELS OF DEPTH

INPUT								COMPUTED								INPUT								COMPUTED												
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD	Z	T	S	OXY	SIG*T	D*T	Z	T	S	OXY	SIG*T	D*T	DD									
70.120								CCDFI CRUISE 6507								70.120																				
ALEXANDER AGASSIZ, JULY 12 1965, 0940 0906 GCT, 33 53.5N 126 35W, SOUNDING 2540 FM, WIND 360 FORCE 4, WEATHER CLOUDY, SEA MODERATE, WIRE ANGLE 15.																																				
1	16.26	33.181	5.99	0.39	3	-	362.2	0	16.33	33.20	-	24.31	362.4	0	0	16.33	33.20	-	24.31	362.4	0	10	16.33	33.20	-	24.31	362.4	.036								
11	16.27	33.161	5.98	0.36	4	-	363.9	10	16.33	33.20	-	24.31	362.4	.036	20	16.33	33.20	-	24.31	362.4	.073	30	16.33	33.20	-	24.31	362.4	.109								
30	16.25	33.164	5.91	0.39	3	-	363.3	20	16.33	33.20	-	24.31	362.4	.109	50	15.86	33.23	-	24.44	350.0	.180	68	14.65	33.212	6.29	0.38	3	0.00	345.9	75	14.72	33.32	-	24.76	319.6	.264
39	16.22	33.171	6.05	0.39	3	0.00	362.1	30	16.33	33.20	-	24.31	362.4	.109	100	13.28	33.14	-	24.92	304.4	.343	93	13.66	33.161	6.30	0.38	3	0.01	310.2	125	12.58	33.38	-	25.24	273.7	.416
54	15.52	33.188	6.10	0.38	3	0.00	345.9	50	15.86	33.23	-	24.44	350.0	.180	150	11.50	33.46	-	25.51	248.4	.482	68	14.65	33.212	6.29	0.38	3	0.00	326.1	200	9.17	33.82	-	26.19	183.7	.592
81	13.66	33.161	6.30	0.38	3	0.01	310.2	75	14.72	33.32	-	24.76	319.6	.264	250	8.47	34.01	-	26.45	159.1	.680	93	13.66	33.161	6.30	0.38	3	0.01	310.2	300	7.83	34.06	-	26.58	146.3	.758
112	12.84	33.091	6.24	0.47	4	0.04	299.8	100	13.28	33.14	-	24.92	304.4	.343	400	6.83	34.13	-	26.78	127.7	.901	131	12.45	33.321	5.97	0.60	6	0.09	275.6	500	6.06	34.19	-	26.93	113.6	1.028
149	11.56	33.419	5.41	0.94	10	0.04	252.5	125	12.58	33.38	-	25.24	273.7	.416	600	5.43	34.27	-	27.07	100.2	1.142	149	11.56	33.419	5.41	0.94	10	0.04	252.5	700	5.43	34.27	-	27.07	100.2	1.142
176	9.96	33.618	4.51	1.55	19	0.01	211.0	150	11.50	33.46	-	25.51	248.4	.482																						
218	9.10	33.828	4.03	1.78	25	0.01	182.0	200	9.17	33.82	-	26.19	183.7	.592																						
236	8.74	33.942	3.46	2.00	31	0.01	168.2	250	8.47	34.01	-	26.45	159.1	.680																						
281	8.16	34.008	3.25	2.11	38	0.01	154.8	300	7.83	34.06	-	26.58	146.3	.758																						
332	7.52	34.057	2.44	2.47	47	0.01	142.3	400	6.83	34.13	-	26.78	127.7	.901																						
411	6.62	34.109	1.53	2.80	60	0.01	126.6	500	6.06	34.19	-	26.93	113.6	1.028																						
492	5.97	34.164	1.00	3.02	71	0.01	114.5	600	5.43	34.27	-	27.07	100.2	1.142																						
575	5.44	34.229	.61	3.18	89	0.01	103.4																													

70.200 CCDFI CRUISE 6507 70.200

ALEXANDER AGASSIZ, JULY 20 1965, 2117 2030 GCT, 31 13N 132 02W, SOUNDING 2500 FM, WIND 020 FORCE 3, WEATHER PARTLY CLOUDY, SEA MODERATE, WIRE ANGLE 19.

0	19.62	33.993	5.57	0.25	2	0.00	381.1	0	19.54	33.93	-	24.09	383.7	0											
9	19.38	34.011	5.59	0.20	3	0.00	373.9	10	19.45	34.01	-	24.17	375.7	.038											
28	18.17	33.846	5.77	0.26	2	0.00	356.9	20	19.43	34.04	-	24.20	373.0	.075											
37	17.15	33.691	6.00	0.24	2	0.00	344.7	30	17.90	33.78	-	24.38	355.4	.112											
52	15.98	33.617	6.07	0.27	2	0.00	324.3	50	16.25	33.70	-	24.71	324.1	.180											
66	15.78	33.676	6.04	0.26	3	0.00	315.7	75	15.76	33.75	-	24.86	309.9	.260											
90	16.24	33.926	5.89	0.24	3	0.00	307.4	100	16.53	34.13	-	24.98	298.9	.337											
110	17.10	34.276	5.71	0.18	3	0.00	301.0	125	16.89	34.36	-	25.07	290.1	.411											
128	16.60	34.247	5.67	0.23	3	0.01	291.9	150	15.52	34.01	-	25.11	285.8	.484											
148	16.28	34.325	5.50	0.25	3	0.05	279.2	200	12.21	33.97	-	25.77	223.5	.614											
176	14.44	34.181	5.29	0.45	5	0.02	250.9	250	9.99	34.01	-	26.20	182.5	.718											
208	11.94	33.967	5.07	0.82	9	0.00	218.8	300	9.14	34.06	-	26.38	165.4	.807											
235	10.58	34.002	4.93	1.07	13	0.00	192.7	400	7.26	34.04	-	26.65	140.0	.966											
281	9.43	34.036	4.97	1.30	19	0.00	171.7	500	6.04	34.09	-	26.85	120.8	1.103											
332	8.36	34.018	4.40	1.63	28	-	157.0	600	5.27	34.18	-	27.02	105.2	1.223											
409	6.96	34.004	2.94	2.32	44	-	138.8																		
489	5.93	34.059	1.66	2.87	61	-	121.8																		
572	5.41	34.148	.90	3.14	77	-	109.1																		

73.53 CCDFI CRUISE 6507 73.53

ALEXANDER AGASSIZ, JULY 9 1965, 0347 0108 GCT, 35 32N 121 28.5W, SOUNDING 390 FM, WIND 320 FORCE 4, WEATHER CLOUDY, SEA ROUGH.

0	12.94	33.006	6.36	0.54	3	0.10	307.9	0	13.08	33.04	-	24.88	308.0	0
10	12.54	33.008	6.39	0.57	5	0.05	300.3	10	12.56	33.03	-	24.97	299.1	.030
48	11.26	33.548	5.72	1.34	16	0.28	237.7	20	11.57	33.10	-	25.22	276.2	.059
95	9.58	33.867	3.56	2.07	29	0.03	186.5	30	10.77	33.14	-	25.39	259.6	.086
								50	11.14	33.64	-	25.71	228.9	.135
								75	9.93	33.67	-	25.95	206.7	.190
								100	9.62	33.88	-	26.16	186.2	.239
								125	9.19	33.91	-	26.26	177.3	.285
								150	8.87	33.94	-	26.33	170.3	.329
								200	8.17	34.02	-	26.50	154.1	.412
								250	7.78	34.08	-	26.61	144.1	.489
								300	7.52	34.15	-	26.70	135.3	.561
								400	6.98	34.26	-	26.86	119.9	.694
								500	6.32	34.30	-	26.98	108.6	.815
								600	5.66	34.35	-	27.10	96.9	.925

73.60 CCDFI CRUISE 6507 73.60

ALEXANDER AGASSIZ, JULY 9 1965, 0727 0700 GCT, 35 18N 121 57.5W, SOUNDING 1200 FM, WIND 320 FORCE 5, WEATHER CLOUDY, SEA ROUGH, WIRE ANGLE 12.

0	14.38	33.054	6.25	0.50	2	0.00	332.3	0	14.41	33.08	-	24.64	331.0	0
10	14.38	33.051	6.17	0.43	2	0.00	332.5	10	14.41	33.08	-	24.64	331.0	.033
20	14.32	33.061	6.22	0.47	3	0.00	330.5	20	14.37	33.09	-	24.66	329.4	.066
98	10.56	33.537	4.98	1.42	14	0.28	226.7	30	13.70	33.08	-	24.79	316.9	.099
								50	11.92	32.97	-	25.05	291.9	.160
								75	11.17	33.06	-	25.26	272.2	.230
								100	10.77	33.51	-	25.68	232.2	.294
								125	9.99	33.72	-	25.98	203.9	.349
								150	9.57	33.89	-	26.18	184.7	.398
								200	8.55	34.01	-	26.43	160.3	.486
								250	7.82	34.07	-	26.59	145.4	.565
								300	7.22	34.10	-	26.70	135.0	.637
								400	6.56	34.19	-	26.86	119.8	.770
								500	6.17	34.30	-	27.00	106.7	.889
								600	5.08	34.26	-	27.10	97.1	.998

OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH															
INPUT				COMPUTED				INPUT				COMPUTED											
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD									
77.51								CCOFI CRUISE 6507								77.51							
ALEXANDER AGASSIZ, JULY 9 1965, 1820 1750 GCT, 35 02N 120 56.5W, SOUNDING 142 FM, WIND 040 FORCE 3, WEATHER OVERCAST, SEA ROUGH, WIRE ANGLE MISSING.																							
0	12.15	33.630	6.05	1.09	13	0.36	247.4	0	12.21	33.65	-	25.52	247.0	0									
10	11.90	33.628	5.98	1.06	15	0.13	243.1	10	12.02	33.66	-	25.57	242.9	.025									
50	10.71	33.757	4.85	1.46	19	0.31	213.0	20	11.54	33.79	-	25.76	224.8	.048									
100	9.20	33.911	3.20	1.95	29	0.04	177.4	30	11.43	33.79	-	25.78	222.8	.070									
								50	10.88	33.77	-	25.86	214.9	.114									
								75	9.88	33.82	-	26.07	194.8	.166									
								100	9.24	33.95	-	26.28	175.1	.213									
								125	9.14	34.05	-	26.37	166.2	.256									
								150	8.97	34.09	-	26.43	160.6	.297									
								200	8.78	34.13	-	26.49	154.8	.378									
								250	8.57	34.16	-	26.55	149.5	.456									

77.55								CCOFI CRUISE 6507								77.55							
ALEXANDER AGASSIZ, JULY 9 1965, 1448 1405 GCT, 34 54N 121 14W, SOUNDING 307 FM, WIND 340 FORCE 4, WEATHER PARTLY CLOUDY, SEA ROUGH, WIRE ANGLE 05.																							
0	13.12	33.599	6.24	0.75	7	0.25	267.7	0	12.85	33.55	-	25.32	266.2	0									
10	13.14	33.595	6.23	0.72	8	0.16	268.4	10	12.85	33.56	-	25.33	265.5	.027									
25	12.26	33.601	5.82	1.04	11	0.37	251.6	20	12.77	33.57	-	25.35	263.2	.053									
100	9.62	33.832	3.37	2.01	26	0.02	189.8	30	11.02	33.67	-	25.76	224.6	.078									
								50	10.14	33.76	-	25.98	203.4	.120									
								75	9.78	33.83	-	26.10	192.4	.170									
								100	9.43	33.89	-	26.20	182.5	.218									
								125	9.10	33.94	-	26.29	173.7	.263									
								150	8.87	34.00	-	26.38	165.8	.306									
								200	8.25	34.13	-	26.57	147.1	.386									
								250	7.83	34.12	-	26.63	141.9	.460									
								300	7.66	34.22	-	26.73	132.1	.530									
								400	6.67	34.22	-	26.87	118.9	.661									
								500	6.41	34.28	-	26.95	111.2	.783									

77.57								CCOFI CRUISE 6507								77.57							
ALEXANDER AGASSIZ, JULY 9 1965, 1219 1145 GCT, 34 49N 121 23W, SOUNDING 270 FM, WIND 340 FORCE 2, WEATHER PARTLY CLOUDY, SEA ROUGH, WIRE ANGLE 05.																							
0	11.94	33.604	5.87	1.15	13	0.40	245.6	0	11.85	33.60	-	25.55	244.3	0									
10	11.92	33.600	5.86	1.10	14	0.14	245.5	10	11.66	33.62	-	25.60	239.8	.024									
20	11.42	33.626	5.58	1.29	16	0.41	234.8	20	11.36	33.64	-	25.67	232.7	.048									
100	9.01	33.943	2.81	2.14	33	0.01	172.1	30	10.86	33.70	-	25.81	219.7	.071									
								50	10.27	33.77	-	25.97	204.7	.113									
								75	9.24	33.91	-	26.25	178.1	.161									
								100	9.03	33.97	-	26.33	170.4	.205									
								125	8.82	34.00	-	26.38	165.1	.248									
								150	8.56	34.06	-	26.47	156.8	.288									
								200	8.42	34.10	-	26.52	151.7	.367									
								250	8.03	34.12	-	26.60	144.7	.443									
								300	7.74	34.18	-	26.69	136.1	.516									
								400	6.62	34.20	-	26.86	119.8	.649									

80.52								CCOFI CRUISE 6507								80.52							
ALEXANDER AGASSIZ, JULY 10 1965, 0430 0408 GCT, 34 24.5N 120 36.5W, SOUNDING 170 FM, WIND 330 FORCE 6, WEATHER CLEAR, SEA VERY ROUGH, WIRE ANGLE 25.																							
0	12.40	33.700	5.38	1.20	14	0.26	246.8	0	12.55	33.73	-	25.52	247.4	0									
9	12.40	33.695	5.14	1.16	16	0.09	247.2	10	12.55	33.73	-	25.52	247.4	.025									
18	11.28	33.681	4.17	1.55	15	0.34	228.3	20	11.50	33.68	-	25.68	232.2	.049									
90	9.78	33.864	3.19	2.00	22	0.14	189.9	30	10.88	33.75	-	25.84	216.4	.071									
								50	10.54	33.80	-	25.94	207.0	.114									
								75	10.18	33.83	-	26.03	198.8	.165									
								100	10.03	33.85	-	26.07	194.9	.214									
								125	9.77	33.93	-	26.18	184.9	.263									
								150	9.36	34.03	-	26.32	171.0	.308									
								200	9.00	34.12	-	26.45	158.9	.392									
								250	8.85	34.15	-	26.50	154.4	.472									

OBSERVED LEVELS OF DEPTH STANDARD LEVELS OF DEPTH

INPUT							COMPUTED							INPUT							COMPUTED						
Z	T	S	QXY	PHO	SIL	NIT	D*T	Z	T	S	CXY	SIG*T	D*T	CC	Z	T	S	CXY	SIG*T	D*T	CC						
80.55							CCOFI CRUISE 6507							80.55													
ALEXANDER AGASSIZ, JULY 10 1965, 0634 0555 GCT, 34 19.5N 120 48.5W, SOUNDING 410 FM, WIND 320 FORCE 7, WEATHER CLEAR, SEA VERY ROUGH, WIRE ANGLE 25.																											
0	12.86	33.775	6.31	0.77	8	0.15	249.8	0	12.97	33.77	-	25.47	252.3	0	0	12.97	33.77	-	25.47	252.3	.025						
9	12.86	33.776	6.72	0.71	8	0.09	249.8	10	12.97	33.77	-	25.47	252.3	.025	10	12.97	33.77	-	25.47	252.3	.025						
36	11.26	33.787	5.66	1.05	11	0.19	220.1	20	12.96	33.78	-	25.48	251.4	.050	20	12.96	33.78	-	25.48	251.4	.050						
90	9.34	34.013	2.66	2.21	32	0.06	172.0	30	12.65	33.75	-	25.51	247.8	.075	30	12.65	33.75	-	25.51	247.8	.075						
								50	10.78	33.83	-	25.92	208.8	.121	50	10.78	33.83	-	25.92	208.8	.121						
								75	9.47	33.99	-	26.27	175.7	.170	75	9.47	33.99	-	26.27	175.7	.170						
								100	9.37	34.03	-	26.32	171.2	.213	100	9.37	34.03	-	26.32	171.2	.213						
								125	9.30	34.08	-	26.37	166.4	.256	125	9.30	34.08	-	26.37	166.4	.256						
								150	9.13	34.10	-	26.41	162.3	.258	150	9.13	34.10	-	26.41	162.3	.258						
								200	8.85	34.17	-	26.51	152.9	.378	200	8.85	34.17	-	26.51	152.9	.378						
								250	8.38	34.18	-	26.59	145.2	.455	250	8.38	34.18	-	26.59	145.2	.455						
								300	8.19	34.21	-	26.65	140.2	.529	300	8.19	34.21	-	26.65	140.2	.529						

INPUT							COMPUTED							INPUT							COMPUTED						
Z	T	S	QXY	PHO	SIL	NIT	D*T	Z	T	S	CXY	SIG*T	D*T	CC	Z	T	S	CXY	SIG*T	D*T	CC						
80.60							CCOFI CRUISE 6507							80.60													
ALEXANDER AGASSIZ, JULY 10 1965, 1031 0923 GCT, 34 08N 121 09.5W, SOUNDING 1170 FM, WIND 330 FORCE 6, WEATHER MISSING, SEA VERY ROUGH, WIRE ANGLE 48.																											
0	14.57	33.321	6.15	0.48	3	0.05	316.5	0	14.66	33.28	-	24.74	321.4	0	0	14.66	33.28	-	24.74	321.4	.032						
8	14.58	33.314	6.17	0.43	4	0.01	317.2	10	14.67	33.30	-	24.75	320.1	.032	10	14.67	33.30	-	24.75	320.1	.032						
24	14.52	33.320	6.18	0.49	3	0.05	315.6	20	14.65	33.31	-	24.77	319.0	.064	20	14.65	33.31	-	24.77	319.0	.064						
31	14.42	33.330	6.24	0.47	4	0.07	312.8	30	14.54	33.32	-	24.80	316.0	.096	30	14.54	33.32	-	24.80	316.0	.096						
40	13.95	33.467	6.31	0.59	4	0.16	293.4	50	13.21	33.40	-	25.13	284.0	.156	50	13.21	33.40	-	25.13	284.0	.156						
49	13.55	33.456	6.23	0.72	5	0.20	286.4	75	11.28	33.44	-	25.53	246.1	.223	75	11.28	33.44	-	25.53	246.1	.223						
65	11.66	33.401	5.40	1.01	9	0.19	255.6	100	10.46	33.61	-	25.81	219.7	.281	100	10.46	33.61	-	25.81	219.7	.281						
77	11.12	33.439	5.00	1.19	13	0.12	243.4	125	9.74	33.82	-	26.10	192.5	.334	125	9.74	33.82	-	26.10	192.5	.334						
89	10.80	33.506	4.76	1.33	16	0.02	233.0	150	8.92	33.92	-	26.31	172.5	.380	150	8.92	33.92	-	26.31	172.5	.380						
107	10.22	-	4.37	-	-	-	-	200	8.42	34.01	-	26.45	158.4	.464	200	8.42	34.01	-	26.45	158.4	.464						
124	9.74	33.750	3.60	1.86	24	0.02	197.7	250	7.82	34.06	-	26.58	146.2	.542	250	7.82	34.06	-	26.58	146.2	.542						
148	9.28	33.849	3.34	1.96	28	0.00	183.2	300	7.31	34.09	-	26.68	137.0	.615	300	7.31	34.09	-	26.68	137.0	.615						
166	8.84	33.911	3.50	1.88	28	0.01	172.0	400	6.34	34.17	-	26.88	118.5	.748	400	6.34	34.17	-	26.88	118.5	.748						
195	8.38	33.978	3.52	1.88	33	0.01	160.2	500	5.82	34.25	-	27.00	106.2	.866	500	5.82	34.25	-	27.00	106.2	.866						
233	7.98	34.027	2.84	2.15	39	-	150.9	600	5.53	34.34	-	27.11	96.1	.975	600	5.53	34.34	-	27.11	96.1	.975						
293	7.36	34.059	2.33	2.47	46	-	140.0																				
353	6.76	34.129	1.53	2.75	58	-	126.9																				
412	6.20	34.158	1.05	2.94	71	-	117.7																				

INPUT							COMPUTED							INPUT							COMPUTED						
Z	T	S	QXY	PHO	SIL	NIT	D*T	Z	T	S	CXY	SIG*T	D*T	CC	Z	T	S	CXY	SIG*T	D*T	CC						
80.70							CCOFI CRUISE 6507							80.70													
ALEXANDER AGASSIZ, JULY 10 1965, 1834 1800 GCT, 33 48.5N 121 50.5W, SOUNDING 1960 FM, WIND 340 FORCE 5, WEATHER CLOUDY, SEA VERY ROUGH, WIRE ANGLE 22.																											
0	14.44	33.330	6.23	0.50	4	0.07	313.2	0	14.53	33.36	-	24.83	312.9	0	0	14.53	33.36	-	24.83	312.9	.031						
9	14.42	33.319	6.27	0.52	4	0.02	313.6	10	14.53	33.36	-	24.83	312.9	.031	10	14.53	33.36	-	24.83	312.9	.031						
18	14.36	33.317	6.20	0.49	3	0.07	312.6	20	14.49	33.33	-	24.82	314.2	.063	20	14.49	33.33	-	24.82	314.2	.063						
93	9.78	33.696	3.85	1.82	22	0.01	202.3	30	12.48	33.24	-	25.15	282.1	.093	30	12.48	33.24	-	25.15	282.1	.093						
								50	11.45	33.39	-	25.46	252.7	.146	50	11.45	33.39	-	25.46	252.7	.146						
								75	10.33	33.61	-	25.83	217.6	.205	75	10.33	33.61	-	25.83	217.6	.205						
								100	9.59	33.79	-	26.10	192.4	.257	100	9.59	33.79	-	26.10	192.4	.257						
								125	9.14	33.88	-	26.24	178.8	.304	125	9.14	33.88	-	26.24	178.8	.304						
								150	8.64	33.97	-	26.39	164.6	.348	150	8.64	33.97	-	26.39	164.6	.348						
								200	7.86	34.05	-	26.57	147.5	.427	200	7.86	34.05	-	26.57	147.5	.427						
								250	7.56	34.12	-	26.67	138.1	.500	250	7.56	34.12	-	26.67	138.1	.500						
								300	7.33	34.21	-	26.77	128.3	.569	300	7.33	34.21	-	26.77	128.3	.569						
								400	6.38	34.21	-	26.90	116.0	.697	400	6.38	34.21	-	26.90	116.0	.697						
								500	5.78	34.27	-	27.03	104.3	.813	500	5.78	34.27	-	27.03	104.3	.813						
								600	5.41	34.32	-	27.11	96.2	.920	600	5.41	34.32	-	27.11	96.2	.920						

INPUT							COMPUTED							INPUT							COMPUTED						
Z	T	S	QXY	PHO	SIL	NIT	D*T	Z	T	S	CXY	SIG*T	D*T	CC	Z	T	S	CXY	SIG*T	D*T	CC						
80.80							CCOFI CRUISE 6507							80.80													
ALEXANDER AGASSIZ, JULY 10 1965, 2350 2318 GCT, 33 29N 122 32.5W, SOUNDING 2140 FM, WIND 320 FORCE 5, WEATHER CLOUDY, SEA VERY ROUGH, WIRE ANGLE 22.																											
0	15.08	33.235	6.09	0.44	3	0.01	333.3	0	15.11	33.26	-	24.63	332.1	0	0	15.11	33.26	-	24.63	332.1	.033						
9	15.08	33.230	6.09	0.44	3	0.01	333.6	10	15.11	33.26	-	24.63	332.1	.033	10	15.11	33.26	-	24.63	332.1	.033						
37	15.00	33.233	6.06	0.44	3	0.02	331.8	20	15.11	33.26	-	24.63	332.1	.066	20	15.11	33.26	-	24.63	332.1	.066						
93	11.72	33.239	5.75	0.90	7	0.22	268.6	30	15.08	33.26	-	24.63	331.4	.100	30	15.08	33.26	-	24.63	331.4	.100						
								50	14.47	33.20	-	24.72	323.4	.165	50	14.47	33.20	-	24.72	323.4	.165						
								75	12.21	33.20	-	25.17	280.2	.241	75	12.21	33.20	-	25.17	280.2	.241						
								100	11.26	33.44	-	25.54	245.7	.307	100	11.26	33.44	-	25.54	245.7	.307						
								125	10.50	33.64	-	25.83	218.1	.366	125	10.50	33.64	-	25.83	218.1	.366						
								150	9.75	33.80	-	26.08	194.2	.418	150	9.75	33.80	-	26.08	194.2	.418						
								200	9.01	34.04	-	26.39	164.9	.510	200	9.01	34.04	-	26.39	164.9	.510						
								250	8.21	34.10	-	26.56	148.7	.590	250	8.21	34.10	-	26.56	148.7	.590						
								300	7.79	34.15	-	26.66	139.1	.665	300	7.79	34.15	-	26.66	139.1	.665						
								400	6.73	34.17	-	26.82	123.4	.801	400	6.73	34.17	-	26.82	123.4	.801						
								500	5.86	34.23	-	26.98	108.2	.923	500	5.86	34.23	-	26.98	108.2	.923						
								600	5.30	34.31	-	27.12	95.8	1.022	600	5.30	34.31	-	27.12	95.8	1.022						

OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH							
INPUT								COMPUTED							
Z	T	S	OXY	PHO	SIL	NIT	D* ^T	Z	T	S	OXY	SIG* ^T	D* ^T	DD	
80.90								80.90							
CCDFI CRUISE 6507															
ALEXANDER AGASSIZ, JULY 11 1965, 0510 0428 GCT, 33 09N 123 13W, SOUNDING 2245 FM, WIND 330 FORCE 6, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 30.															
0	14.62	33.183	6.25	0.39	4	0.00	327.6	0	14.72	33.20	-	24.67	328.4	0	
9	14.66	33.173	6.15	0.35	4	0.00	329.2	10	14.72	33.20	-	24.67	328.4	.033	
44	14.19	33.178	6.17	0.39	3	0.02	319.4	20	14.72	33.21	-	24.67	327.7	.066	
86	11.18	33.377	5.17	1.07	10	0.15	249.0	30	14.72	33.21	-	24.67	327.7	.099	
								50	13.75	33.20	-	24.87	309.1	.162	
								75	11.99	33.33	-	25.32	266.6	.235	
								100	10.82	33.55	-	25.70	230.1	.297	
								125	10.07	33.68	-	25.93	208.2	.353	
								150	9.21	33.84	-	26.20	182.8	.402	
								200	8.43	34.00	-	26.45	159.3	.489	
								250	7.78	34.06	-	26.59	145.6	.568	
								300	7.17	34.07	-	26.68	136.6	.640	
								400	6.40	34.15	-	26.85	120.8	.774	
								500	5.68	34.21	-	26.99	107.6	.894	
								600	5.24	34.28	-	27.10	97.3	1.003	
80.100								80.100							
CCDFI CRUISE 6507															
ALEXANDER AGASSIZ, JULY 11 1965, 1030 0941 GCT, 32 49N 123 53W, SOUNDING 2335 FM, WIND 340 FORCE 5, WEATHER PARTLY CLOUDY, SEA ROUGH, WIRE ANGLE 17.															
0	14.93	33.075	6.25	0.38	3	0.00	341.9	0	15.11	33.10	-	24.51	343.8	0	
10	14.96	33.064	6.07	0.39	3	0.00	343.3	10	15.11	33.10	-	24.51	343.8	.034	
24	14.94	33.069	6.07	0.39	2	0.00	342.5	20	15.11	33.10	-	24.51	343.8	.069	
96	11.82	33.299	5.56	0.83	7	0.15	265.9	30	15.11	33.11	-	24.51	343.0	.103	
								50	15.07	33.12	-	24.53	341.5	.172	
								75	13.05	33.07	-	24.91	305.2	.253	
								100	11.62	33.35	-	25.40	258.6	.324	
								125	10.61	33.56	-	25.74	225.9	.385	
								150	9.74	33.72	-	26.02	199.9	.439	
								200	8.68	33.98	-	26.39	164.5	.532	
								250	8.10	34.08	-	26.56	148.6	.612	
								300	7.42	34.08	-	26.66	139.2	.686	
								400	6.47	34.16	-	26.85	120.9	.822	
								500	5.77	34.22	-	26.99	107.9	.942	
								600	5.18	34.27	-	27.10	97.4	1.051	
80.120								80.120							
CCDFI CRUISE 6507															
ALEXANDER AGASSIZ, JULY 11 1965, 1903 1830 GCT, 32 09N 125 14.5W, SOUNDING 2322 FM, WIND 330 FORCE 4, WEATHER CLOUDY, SEA ROUGH, WIRE ANGLE 15.															
0	15.40	33.097	6.14	0.51	3	-	350.0	0	15.45	33.13	-	24.45	348.7	0	
10	15.38	33.095	6.13	0.41	4	-	349.8	10	15.41	33.13	-	24.46	347.8	.035	
30	15.32	33.097	6.08	0.41	4	-	348.3	20	15.37	33.13	-	24.47	347.0	.070	
59	13.97	33.111	6.49	0.39	3	-	319.9	30	15.37	33.13	-	24.47	347.0	.104	
68	13.62	33.136	6.34	0.42	4	0.01	311.3	50	14.50	33.15	-	24.67	327.6	.172	
83	13.06	33.110	6.34	0.47	3	0.03	302.5	75	13.39	33.18	-	24.93	303.6	.251	
97	12.36	33.188	6.08	0.63	5	0.20	283.8	100	12.29	33.22	-	25.17	280.1	.325	
112	11.80	33.285	5.33	0.81	6	0.08	266.6	125	11.13	33.43	-	25.55	244.2	.391	
136	10.50	33.461	5.02	1.32	15	0.01	231.4	150	9.95	33.64	-	25.92	209.2	.448	
156	9.82	33.614	4.54	1.51	19	0.01	209.1	200	8.91	33.94	-	26.32	170.9	.545	
185	9.15	33.839	3.60	1.97	26	0.01	182.0	250	8.00	34.01	-	26.52	152.4	.628	
213	8.62	33.959	3.32	2.05	32	0.01	165.1	300	7.34	34.04	-	26.64	141.1	.704	
243	8.16	34.018	3.24	2.14	37	0.01	154.1	400	6.34	34.11	-	26.83	123.0	.841	
291	7.46	33.998	3.49	2.07	43	0.01	145.9	500	5.80	34.22	-	26.98	108.3	.962	
345	6.86	34.055	2.33	2.58	52	0.01	133.7	600	5.11	34.27	-	27.11	96.6	1.071	
427	5.90	34.095	1.47	2.95	67	0.01	118.8								
511	5.58	34.215	.86	3.16	77	0.01	106.1								
594	5.02	34.254	.59	3.22	94	0.01	96.8								
80.200								80.200							
CCDFI CRUISE 6507															
ALEXANDER AGASSIZ, JULY 21 1965, 1028 0941 GCT, 29 28.5N 130 38.5W, SOUNDING 2460 FM, WIND 050 FORCE 3, WEATHER CLOUDY, SEA SLIGHT, WIRE ANGLE 13.															
0	19.14	33.962	5.61	0.39	3	0.00	371.6	0	19.20	33.97	-	24.20	372.5	0	
10	19.13	33.954	5.60	0.29	2	0.00	372.0	10	19.18	33.97	-	24.21	372.0	.037	
44	17.85	34.100	5.90	0.24	2	0.00	331.0	20	18.66	33.94	-	24.32	361.7	.074	
73	16.82	34.082	5.88	0.25	2	0.00	308.8	30	18.56	33.94	-	24.34	359.3	.110	
93	17.76	34.474	5.71	0.24	2	0.00	301.7	50	17.63	34.12	-	24.71	324.4	.179	
108	17.67	34.562	5.66	0.20	2	0.00	293.2	75	17.12	34.23	-	24.91	304.8	.258	
123	17.79	34.708	5.56	0.17	3	0.00	285.3	100	17.77	34.58	-	25.03	294.2	.333	
142	16.91	34.568	5.40	0.26	3	0.12	275.4	125	17.83	34.73	-	25.13	284.7	.407	
162	15.04	34.367	5.19	0.46	6	0.01	249.6	150	16.40	34.49	-	25.28	269.8	.477	
191	11.90	33.963	5.10	0.81	10	0.00	218.4	200	11.88	33.96	-	25.82	218.3	.601	
215	10.60	33.931	4.99	1.09	13	0.00	198.3	250	9.90	34.02	-	26.22	180.3	.704	
240	9.98	33.993	4.98	1.22	16	0.00	183.6	300	9.01	34.03	-	26.38	165.7	.793	
274	9.28	34.027	4.80	1.37	20	0.00	170.0	400	7.19	34.04	-	26.66	139.1	.951	
314	8.59	34.020	4.31	1.63	26	0.00	160.2	500	5.92	34.11	-	26.88	117.9	1.086	
362	7.60	34.022	3.54	2.03	37	0.03	146.0	600	5.34	34.21	-	27.03	103.7	1.203	
429	6.54	34.053	2.18	2.61	53	0.00	129.8								
510	5.74	34.124	1.19	3.00	68	0.00	114.7								
593	5.28	34.202	.76	3.21	82	0.00	103.6								

OBSERVED LEVELS OF DEPTH STANDARD LEVELS CF DEPTH

INPUT COMPUTED INPUT COMPUTED

Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	CC			
82.47								CCOFI CRUISE 6507								82.47	
BLACK DOUGLAS, JUNE 16 1965, 2115 GMT, 34 15N 119 59W, SOUNDING 310 FM, WIND 280 FORCE 2, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 00.																	
0	14.41	33.753	6.97	-	-	-	281.6	0	14.41	33.75	6.97	25.16	281.9	0			
10	11.36	33.781	4.39	-	-	-	222.3	10	11.36	33.78	4.39	25.78	222.4	.025			
29	10.46	33.832	3.52	-	-	-	203.3	20	10.73	33.81	3.79	25.92	209.4	.047			
39	10.20	33.848	3.26	-	-	-	197.8	30	10.44	33.83	3.48	25.98	203.1	.068			
49	9.94	33.877	3.05	-	-	-	191.5	50	9.92	33.88	3.03	26.11	191.0	.107			
63	9.57	33.946	2.74	-	-	-	180.5	75	9.37	34.01	2.52	26.30	172.7	.153			
78	9.32	34.031	2.47	-	-	-	170.3	100	9.02	34.12	1.99	26.45	159.2	.195			
98	9.06	34.111	2.05	-	-	-	160.4	125	8.77	34.18	1.56	26.53	150.9	.234			
121	8.80	34.180	1.63	-	-	-	151.4	150	8.61	34.18	1.40	26.56	148.6	.272			
141	8.69	34.182	1.49	-	-	-	149.6	200	8.25	34.18	.90	26.61	143.3	.347			
170	8.45	34.165	1.13	-	-	-	147.3	250	8.01	34.21	.70	26.67	137.7	.419			
199	8.26	34.177	.91	-	-	-	143.7	300	7.67	34.22	.53	26.73	132.2	.489			
227	8.12	34.200	.77	-	-	-	140.0	400	7.15	34.27	.41	26.84	121.4	.621			
266	7.90	34.210	.63	-	-	-	136.1	500	6.54	34.28	.16	26.94	112.8	.745			
324	7.52	34.233	.49	-	-	-	129.2										
397	7.16	34.268	.43	-	-	-	121.7										
470	6.64	34.272	.25	-	-	-	114.7										
548	6.48	34.289	.11	-	-	-	111.4										

83.43 CCOFI CRUISE 6507 83.43

BLACK DOUGLAS, JUNE 16 1965, 1700 GMT, 34 08N 119 34W, SOUNDING 134 FM, WIND 260 FORCE 1, WEATHER CLOUDY, SEA SLIGHT, WIRE ANGLE 00.

0	14.66	33.664	6.54	-	-	-	293.2	0	14.66	33.66	6.54	25.03	293.5	0
10	14.60	33.663	6.66	-	-	-	292.1	10	14.60	33.66	6.66	25.05	292.3	.029
29	12.10	33.716	4.53	-	-	-	240.2	20	14.34	33.67	6.47	25.11	286.3	.058
44	10.66	33.786	3.55	-	-	-	210.0	30	11.98	33.72	4.43	25.62	237.7	.085
53	10.20	33.844	3.17	-	-	-	198.1	50	10.33	33.83	3.26	26.00	201.3	.129
68	9.53	33.915	2.86	-	-	-	182.2	75	9.43	33.94	2.78	26.24	178.8	.176
83	9.36	33.961	2.73	-	-	-	176.1	100	9.21	33.98	2.68	26.31	172.4	.221
102	9.18	33.987	2.66	-	-	-	171.5	125	9.09	34.08	2.16	26.40	163.2	.263
126	9.08	34.093	2.13	-	-	-	162.1	150	8.95	34.14	1.86	26.47	156.6	.304
146	8.97	34.131	1.90	-	-	-	157.6	200	8.56	34.21	1.30	26.59	145.6	.381
176	8.84	34.169	1.65	-	-	-	152.8							
199	8.58	34.207	1.31	-	-	-	146.1							

83.51 CCOFI CRUISE 6507 83.51

BLACK DOUGLAS, JUNE 17 1965, 0140 GMT, 33 52N 120 07.5W, SOUNDING 66 FM, WIND 280 FORCE 2, WEATHER CLEAR, SEA ROUGH, WIRE ANGLE 05.

0	12.52	33.770	5.91	-	-	-	243.9	0	12.52	33.77	5.91	25.55	243.9	0
19	11.72	33.837	5.34	-	-	-	224.5	10	11.85	33.83	5.47	25.73	227.3	.024
29	11.60	33.817	5.16	-	-	-	223.8	20	11.70	33.84	5.12	25.77	223.9	.046
44	11.28	33.853	4.73	-	-	-	215.6	30	11.59	33.82	5.12	25.77	223.4	.069
58	10.86	33.880	4.23	-	-	-	206.4	50	11.09	33.86	4.50	25.89	211.8	.112
72	10.61	33.896	4.01	-	-	-	201.0	75	10.52	33.90	3.89	26.02	199.2	.164
91	8.94	34.093	2.07	-	-	-	160.0	100	8.89	34.10	2.01	26.45	158.7	.209
111	8.84	34.110	1.95	-	-	-	157.2							

83.55 CCOFI CRUISE 6507 83.55

BLACK DOUGLAS, JUNE 17 1965, 0358 GMT, 33 45.5N 120 21W, SOUNDING 460 FM, WIND 280 FORCE 2, WEATHER CLOUDY, SEA ROUGH, WIRE ANGLE 05.

0	12.86	33.742	6.07	-	-	-	252.3	0	12.86	33.74	6.07	25.47	252.4	0
10	12.08	33.738	5.76	-	-	-	238.2	10	12.08	33.74	5.76	25.62	238.1	.025
29	10.65	33.828	3.60	-	-	-	206.7	20	11.80	33.75	5.45	25.68	232.3	.048
39	9.63	33.913	2.84	-	-	-	183.9	30	10.52	33.84	3.47	25.98	203.7	.070
49	9.50	33.951	2.75	-	-	-	179.1	50	9.49	33.95	2.72	26.24	179.0	.108
63	9.22	34.019	2.43	-	-	-	169.7	75	8.98	34.04	2.28	26.39	164.5	.152
79	8.92	34.059	2.21	-	-	-	162.2	100	8.79	34.14	1.85	26.50	154.2	.192
96	8.80	34.127	1.92	-	-	-	155.3	125	8.74	34.16	1.70	26.52	152.0	.231
121	8.75	34.157	1.79	-	-	-	152.4	150	8.67	34.17	1.57	26.54	150.2	.269
140	8.72	34.166	1.55	-	-	-	151.2	200	8.38	34.21	1.32	26.62	143.0	.344
170	8.56	34.183	1.69	-	-	-	147.6	250	8.12	34.24	1.10	26.68	137.0	.416
197	8.39	34.205	1.37	-	-	-	143.5	300	7.85	34.25	.97	26.73	132.5	.486
227	8.32	34.232	1.21	-	-	-	140.5	400	7.29	34.26	.72	26.82	124.0	.620
266	7.98	34.249	1.02	-	-	-	134.4	500	6.76	34.30	.50	26.92	114.1	.746
323	7.78	34.250	.92	-	-	-	131.5							
404	7.26	34.266	.70	-	-	-	123.2							
472	6.92	34.288	.55	-	-	-	117.1							
550	6.38	34.305	.38	-	-	-	108.9							

OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH							
INPUT								COMPUTED							
Z	T	S	OXY	P-H	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD	
83.60								83.60							
BLACK DOUGLAS, JUNE 17 1965, 0740 GMT, 33 34N 120 45W, SOUNDING 800 FM, WIND 270 FORCE 1, WEATHER CLEAR, SEA ROUGH, WIRE ANGLE 05.															
0	13.44	33.684	6.02	-	-	-	267.6	0	13.44	33.68	6.02	25.30	267.9	0	
10	13.01	33.672	6.12	-	-	-	260.2	10	13.01	33.67	6.12	25.38	260.4	.026	
29	12.92	33.668	5.83	-	-	-	258.8	20	12.97	33.67	5.97	25.39	259.6	.052	
52	12.28	33.601	5.57	-	-	-	251.9	30	12.91	33.67	5.82	25.40	258.5	.078	
62	10.62	33.592	4.44	-	-	-	223.7	50	12.85	33.66	5.80	25.41	258.1	.130	
72	10.71	33.767	4.28	-	-	-	212.2	75	10.65	33.78	4.20	25.91	210.3	.189	
86	10.12	33.817	3.65	-	-	-	198.8	100	9.74	33.84	3.28	26.11	191.1	.240	
101	9.72	33.840	3.26	-	-	-	190.7	125	8.94	33.93	2.83	26.31	172.0	.286	
124	8.96	33.931	2.84	-	-	-	172.3	150	8.59	34.00	2.60	26.42	161.6	.328	
145	8.60	33.986	2.64	-	-	-	162.8	200	7.90	34.05	2.19	26.56	148.0	.407	
168	8.56	34.059	2.13	-	-	-	156.8	250	7.46	34.11	1.69	26.67	137.5	.480	
198	7.94	34.046	2.21	-	-	-	148.9	300	7.34	34.18	1.15	26.75	130.7	.550	
226	7.59	34.083	1.89	-	-	-	141.3								
264	7.43	34.122	1.55	-	-	-	136.2								
322	7.28	34.214	.90	-	-	-	127.3								
83.70								83.70							
BLACK DOUGLAS, JUNE 17 1965, 1349 GMT, 33 14N 121 26W, SOUNDING 1900 FM, WIND 320 FORCE 2, WEATHER OVERCAST, SEA ROUGH, WIRE ANGLE 08.															
0	13.15	33.627	6.14	-	-	-	266.2	0	13.15	33.63	6.14	25.32	266.0	0	
10	12.90	33.615	6.09	-	-	-	262.4	10	12.90	33.62	6.09	25.36	262.0	.026	
29	12.84	33.604	5.98	-	-	-	262.0	20	12.86	33.61	6.03	25.36	262.0	.053	
57	12.10	33.585	5.60	-	-	-	249.8	30	12.83	33.60	5.97	25.36	262.1	.079	
67	11.25	33.692	4.58	-	-	-	227.0	50	12.25	33.59	5.70	25.47	252.2	.131	
82	10.40	33.717	3.97	-	-	-	210.8	75	10.77	33.70	4.23	25.83	218.2	.190	
96	9.73	33.780	3.45	-	-	-	195.3	100	9.59	33.78	3.49	26.09	193.1	.242	
111	9.14	33.796	3.65	-	-	-	185.0	125	8.91	33.88	3.35	26.28	175.3	.288	
135	8.76	33.927	3.08	-	-	-	169.6	150	8.53	33.97	2.95	26.41	163.0	.331	
154	8.47	33.976	2.91	-	-	-	161.7	200	7.81	34.06	2.22	26.58	146.0	.410	
183	8.02	34.039	2.50	-	-	-	150.5	250	7.23	34.09	1.75	26.69	135.9	.482	
212	7.66	34.064	2.08	-	-	-	143.7	300	6.75	34.13	1.26	26.79	126.7	.550	
240	7.35	34.081	1.83	-	-	-	138.2								
287	6.87	34.123	1.38	-	-	-	128.7								
343	6.46	34.157	1.00	-	-	-	121.0								
83.80								83.80							
BLACK DOUGLAS, JUNE 17 1965, 1945 GMT, 32 57N 122 09W, SOUNDING 2000+ FM, WIND 270 FORCE 3, WEATHER CLOUDY, SEA VERY ROUGH, WIRE ANGLE 05.															
0	13.40	33.352	6.34	-	-	-	291.2	0	13.40	33.35	6.34	25.06	291.3	0	
10	12.92	33.518	6.23	-	-	-	269.9	10	12.92	33.52	6.23	25.28	269.7	.028	
29	12.44	33.565	5.83	-	-	-	257.5	20	12.87	33.54	6.13	25.31	267.3	.055	
39	10.76	33.698	4.83	-	-	-	218.2	30	12.20	33.59	5.66	25.48	251.3	.081	
49	10.40	33.732	4.31	-	-	-	209.7	50	10.39	33.73	4.29	25.91	209.7	.127	
63	9.93	33.813	3.83	-	-	-	196.1	75	9.72	33.86	3.20	26.13	189.3	.177	
78	9.64	33.865	3.09	-	-	-	187.6	100	9.02	33.88	2.97	26.26	177.0	.224	
98	9.06	33.872	2.99	-	-	-	178.2	125	8.83	34.00	2.50	26.38	165.2	.267	
121	8.82	33.981	2.63	-	-	-	166.5	150	8.79	34.07	2.05	26.44	159.4	.308	
140	8.85	34.059	2.09	-	-	-	161.1	200	8.09	34.10	1.81	26.57	147.0	.386	
170	8.55	34.079	1.98	-	-	-	155.2	250	7.55	34.12	1.57	26.67	138.0	.459	
198	8.11	34.098	1.82	-	-	-	147.4	300	6.94	34.12	1.35	26.76	129.9	.529	
227	7.87	34.121	1.63	-	-	-	142.3	400	6.39	34.23	.60	26.92	114.7	.656	
265	7.32	34.123	1.52	-	-	-	134.7	500	5.81	34.28	.31	27.03	103.9	.771	
321	6.76	34.129	1.19	-	-	-	126.9								
391	6.42	34.211	.66	-	-	-	116.4								
463	6.20	34.289	.39	-	-	-	107.9								
540	5.35	34.273	.22	-	-	-	99.1								

OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH						
INPUT				COMPUTED				INPUT				COMPUTED		
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
87.45								87.45						
BLACK DOUGLAS, JUNE 19 1965, 0950 GMT, 33 30N 119 19W, SOUNDING 900 FM, WIND 240 FORCE 1, WEATHER OVERCAST, SEA SLIGHT, WIRE ANGLE 04.														
0	14.14	33.777	6.30	-	-	-	274.5	0	14.14	33.78	6.30	25.24	274.3	0
10	13.90	33.783	6.32	-	-	-	269.3	10	13.90	33.78	6.32	25.29	269.5	.027
29	9.86	33.898	2.88	-	-	-	188.7	20	11.80	33.85	4.45	25.75	224.9	.052
39	9.60	33.927	2.78	-	-	-	182.4	30	9.81	33.90	2.85	26.15	187.7	.073
49	9.48	33.953	2.64	-	-	-	178.6	50	9.46	33.96	2.62	26.25	177.8	.109
63	9.17	33.986	2.43	-	-	-	171.4	75	9.12	34.02	2.47	26.35	168.1	.153
78	9.10	34.025	2.47	-	-	-	167.4	100	8.96	34.06	2.15	26.41	162.7	.195
97	8.98	34.050	2.21	-	-	-	163.7	125	8.84	34.10	1.99	26.46	157.9	.235
121	8.84	34.083	2.02	-	-	-	159.2	150	8.72	34.14	1.79	26.51	153.2	.275
141	8.76	34.124	1.88	-	-	-	155.0	200	8.19	34.21	1.23	26.65	140.2	.350
170	8.54	34.173	1.55	-	-	-	148.1	250	7.87	34.25	1.00	26.73	132.7	.420
199	8.20	34.210	1.24	-	-	-	140.4	300	7.46	34.27	.76	26.80	125.6	.487
228	8.02	34.225	1.11	-	-	-	136.7	400	6.79	34.30	.48	26.92	114.5	.612
266	7.72	34.261	.90	-	-	-	129.8	500	6.27	34.34	.32	27.02	105.0	.728
324	7.29	34.276	.66	-	-	-	122.9							
397	6.80	34.295	.49	-	-	-	115.0							
470	6.44	34.323	.37	-	-	-	108.3							
54'	5.96	34.355	.23	-	-	-	100.1							
87.50								87.50						
BLACK DOUGLAS, JUNE 19 1965, 0638 GMT, 33 20N 119 39.5W, SOUNDING 40 FM, WIND 320 FORCE 1, WEATHER CLOUDY, SEA SLIGHT, WIRE ANGLE 07.														
0	14.98	33.641	5.94	-	-	-	301.5	0	14.98	33.64	5.94	24.95	301.6	0
10	14.40	33.665	5.92	-	-	-	287.9	10	14.40	33.66	5.92	25.09	288.3	.030
19	12.17	33.789	4.99	-	-	-	236.1	20	12.10	33.79	4.96	25.65	234.7	.056
29	10.80	33.839	3.91	-	-	-	208.4	30	10.70	33.85	3.82	25.95	205.9	.078
39	10.30	33.883	3.48	-	-	-	196.9	50	9.85	33.92	3.13	26.15	186.9	.117
57	9.83	33.931	3.08	-	-	-	185.7							
87.60								87.60						
BLACK DOUGLAS, JUNE 19 1965, 0015 GMT, 33 00N 120 21.5W, SOUNDING 400 FM, WIND 320 FORCE 3, WEATHER CLOUDY, SEA ROUGH, WIRE ANGLE 12.														
1	14.88	33.275	5.85	-	-	-	326.2	0	14.88	33.28	5.85	24.69	325.8	0
10	14.88	33.281	5.87	-	-	-	325.8	10	14.88	33.28	5.87	24.69	325.8	.033
29	14.59	33.267	5.91	-	-	-	320.9	20	14.64	33.27	5.90	24.74	321.7	.065
57	14.38	33.266	5.95	-	-	-	316.7	30	14.58	33.27	5.91	24.75	320.5	.097
67	14.03	33.289A	5.91	-	-	-	308.1	50	14.45	33.27	5.93	24.78	317.8	.161
82	12.70	33.456A	5.54	-	-	-	270.3	75	13.50	33.39	5.77	25.07	290.3	.238
97	11.44	33.556A	4.90	-	-	-	240.3	100	11.23	33.55	4.80	25.63	287.1	.304
111	10.66	33.547	4.50	-	-	-	227.7	125	10.02	33.64	4.12	25.91	210.3	.361
135	9.66	33.726	3.90	-	-	-	198.2	150	9.45	33.78	3.67	26.11	191.0	.411
153	9.41	33.792	3.63	-	-	-	189.4	200	8.57	33.98	2.96	26.41	162.8	.502
181	8.81	33.927	3.25	-	-	-	170.3	250	7.78	34.07	2.25	26.60	144.9	.580
210	8.44	33.997	2.85	-	-	-	159.7	300	6.23	34.17	.86	26.89	117.2	.648
283	7.24	34.088	1.79	-	-	-	136.2	400	5.66	34.28	.48	27.05	102.1	.762
336	6.62	34.127	1.25	-	-	-	125.2							
414	6.14	34.183	.79	-	-	-	115.1							
496	5.68	34.272	.49	-	-	-	103.0							
577	5.28	34.318	.30	-	-	-	94.9							
87.70								87.70						
BLACK DOUGLAS, JUNE 18 1965, 1755 GMT, 32 36N 120 59W, SOUNDING 2100 FM, WIND 320 FORCE 3, WEATHER CLOUDY, SEA ROUGH, WIRE ANGLE 10.														
0	15.08	33.288	5.77	-	-	-	329.4	0	15.08	33.29	5.77	24.66	329.2	0
10	15.06	33.286	5.81	-	-	-	329.1	10	15.06	33.29	5.81	24.66	328.8	.033
29	14.30	33.229	5.93	-	-	-	317.8	20	15.00	33.28	5.82	24.67	328.3	.066
38	14.07	33.210	5.98	-	-	-	314.7	30	14.23	33.23	5.95	24.79	316.4	.098
52	13.42	33.234	6.09	-	-	-	300.2	50	13.75	33.21	6.04	24.88	308.4	.161
67	13.20	33.269	6.08	-	-	-	293.4	75	13.00	33.30	5.97	25.10	287.4	.236
91	11.38	33.419	4.92	-	-	-	249.3	100	10.50	33.45	4.55	25.68	232.2	.301
110	10.45	33.541	4.41	-	-	-	224.6	125	9.89	33.72	3.99	25.99	202.3	.356
129	9.70	33.741	3.91	-	-	-	197.8	150	9.08	33.81	3.63	26.19	183.1	.405
148	9.12	33.801	3.65	-	-	-	184.3	200	8.22	33.98	3.36	26.46	157.8	.492
177	8.64	33.927	3.40	-	-	-	167.8	250	7.79	34.06	2.27	26.59	145.8	.569
210	8.08	33.992	3.34	-	-	-	154.9	300	7.16	34.07	1.86	26.69	136.5	.642
238	7.91	34.051	2.40	-	-	-	148.1	400	6.27	34.14	1.00	26.86	119.9	.775
284	7.35	34.073	1.99	-	-	-	138.8	500	5.67	34.22	.52	27.00	106.7	.895
336	6.78	34.098	1.55	-	-	-	129.4	600	5.19	34.31	-	27.13	94.5	1.002
417	6.16	34.158	.86	-	-	-	117.2							
498	5.68	34.218	.53	-	-	-	107.0							
580	5.28	34.292	.33	-	-	-	96.9							

A) POSSIBLE EVAPORATION, VALUE FALLS ON PROPERTY CURVE.

OBSERVED LEVELS OF DEPTH STANDARD LEVELS OF DEPTH

INPUT							COMPUTED							INPUT							COMPUTED																																																																																																																																																																																																				
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD	Z	T	S	OXY	SIG*T	D*T	DD																																																																																																																																																																																																				
87.80																						CCOFI CRUISE 6507																						87.80																																																																																																																																																																													
BLACK DOUGLAS, JUNE 18 1965, 1235 GMT, 32 18.5N 121 40W, SOUNDING 2150 FM, WIND 330 FCRCE 3, WEATHER CLOUDY, SEA ROUGH, WIRE ANGLE 17.																																																																																																																																																																																																																									
0	15.03	33.243	5.77	-	-	-	331.6	0	15.03	33.24	5.77	24.63	331.9	0	0	15.04	33.244	5.84	-	-	-	331.8	10	15.04	33.24	5.84	24.63	332.1	.033	10	15.04	33.244	5.84	-	-	-	329.2	20	14.99	33.25	5.84	24.65	330.3	.066	20	14.99	33.25	5.84	-	-	-	291.1	30	14.96	33.26	5.84	24.66	329.0	.099	30	14.96	33.26	5.84	-	-	-	289.4	50	13.09	33.27	-	25.06	291.3	.162	50	13.09	33.27	-	-	-	-	282.0	75	13.23	33.39	5.97	25.12	285.1	.234	75	13.23	33.39	5.97	-	-	-	265.1	100	11.32	33.39	4.88	25.49	250.4	.302	100	11.32	33.39	4.88	-	-	-	238.8	125	9.96	33.64	4.10	25.92	209.4	.360	125	9.96	33.64	4.10	-	-	-	205.7	150	9.24	33.76	3.72	26.13	189.2	.410	150	9.24	33.76	3.72	-	-	-	191.6	200	8.50	33.95	3.46	26.40	164.0	.500	200	8.50	33.95	3.46	-	-	-	175.4	250	7.80	34.05	2.35	26.58	146.6	.580	250	7.80	34.05	2.35	-	-	-	163.9	300	7.02	34.07	2.03	26.71	134.6	.652	300	7.02	34.07	2.03	-	-	-	152.7	400	6.25	34.17	.91	26.89	117.4	.783	400	6.25	34.17	.91	-	-	-	141.9	500	5.50	34.26	.47	27.05	101.8	.859	500	5.50	34.26	.47	-	-	-	130.0

87.90 CCOFI CRUISE 6507 87.90

BLACK DOUGLAS, JUNE 18 1965, 0653 GMT, 31 59N 122 25W, SOUNDING 2000 FM, WIND 320 FORCE 4, WEATHER MISSING, SEA VERY ROUGH, WIRE ANGLE 15.

1	15.68	33.383A	5.70	-	-	-	335.0	0	15.68	33.38	5.70	24.59	335.2	0	10	15.70	33.373	5.77	-	-	-	336.2	10	15.70	33.37	5.77	24.58	336.4	.034	20	15.70	33.37	5.77	24.58	336.4	.067	20	15.70	33.37	5.77	-	-	-	334.4	30	15.69	33.37	5.77	24.58	336.2	.101	30	15.69	33.37	5.77	-	-	-	321.1	50	15.63	33.40	5.78	24.62	332.7	.168	50	15.63	33.40	5.78	-	-	-	273.2	75	15.27	33.49	5.83	24.77	318.6	.250	75	15.27	33.49	5.83	-	-	-	254.4	100	12.80	33.42	5.66	25.23	274.8	.325	100	12.80	33.42	5.66	-	-	-	231.3	125	11.53	33.54	4.93	25.56	243.0	.390	125	11.53	33.54	4.93	-	-	-	207.8	150	10.48	33.71	4.67	25.88	212.6	.448	150	10.48	33.71	4.67	-	-	-	183.0	200	9.10	33.92	4.42	26.28	175.2	.547	200	9.10	33.92	4.42	-	-	-	173.3	250	8.37	34.00	3.67	26.45	158.4	.632	250	8.37	34.00	3.67	-	-	-	164.1	300	7.47	34.03	2.55	26.61	143.6	.710	300	7.47	34.03	2.55	-	-	-	154.8	400	6.14	34.06	1.70	26.81	124.3	.849	400	6.14	34.06	1.70	-	-	-	144.2	500	5.99	34.22	.42	26.96	110.5	.972	500	5.99	34.22	.42	-	-	-	134.5
---	-------	---------	------	---	---	---	-------	---	-------	-------	------	-------	-------	---	----	-------	--------	------	---	---	---	-------	----	-------	-------	------	-------	-------	------	----	-------	-------	------	-------	-------	------	----	-------	-------	------	---	---	---	-------	----	-------	-------	------	-------	-------	------	----	-------	-------	------	---	---	---	-------	----	-------	-------	------	-------	-------	------	----	-------	-------	------	---	---	---	-------	----	-------	-------	------	-------	-------	------	----	-------	-------	------	---	---	---	-------	-----	-------	-------	------	-------	-------	------	-----	-------	-------	------	---	---	---	-------	-----	-------	-------	------	-------	-------	------	-----	-------	-------	------	---	---	---	-------	-----	-------	-------	------	-------	-------	------	-----	-------	-------	------	---	---	---	-------	-----	------	-------	------	-------	-------	------	-----	------	-------	------	---	---	---	-------	-----	------	-------	------	-------	-------	------	-----	------	-------	------	---	---	---	-------	-----	------	-------	------	-------	-------	------	-----	------	-------	------	---	---	---	-------	-----	------	-------	------	-------	-------	------	-----	------	-------	------	---	---	---	-------	-----	------	-------	-----	-------	-------	------	-----	------	-------	-----	---	---	---	-------

90.28 CCOFI CRUISE 6507 90.28

ALEXANDER AGASSIZ, JULY 25 1965, 1644 1616 GCT, 33 28.5N 117 47W, SOUNDING 200 FM, WIND 180 FORCE 2, WEATHER CLOUDY, SEA SLIGHT, WIRE ANGLE 09.

0	17.10	33.608	6.74	0.24	5	0.00	349.7	0	17.35	33.60	-	24.38	355.9	0	10	16.04	33.590	6.74	0.30	8	0.01	327.6	10	15.87	33.59	-	24.71	324.0	.034	20	11.77	33.529	4.81	1.16	10	0.12	248.1	20	12.88	33.53	-	25.30	268.2	.064	30	10.80	33.661	4.30	1.55	15	0.01	221.6	30	11.76	33.54	-	25.52	247.1	.089	44	10.46	33.845	3.10	1.85	22	0.01	202.3	50	10.92	33.73	-	25.82	218.5	.136	59	10.30	33.915	2.87	1.99	24	0.01	194.5	75	10.45	33.90	-	26.04	198.1	.169	74	10.12	33.954	2.79	2.04	24	0.00	188.7	100	10.17	33.99	-	26.16	186.8	.237	89	10.04	33.997	2.64	2.11	26	0.01	184.2	125	10.11	34.07	-	26.23	180.0	.284	108	9.84	34.088	2.28	2.30	30	0.02	174.3	150	9.65	34.07	-	26.31	172.6	.328	133	9.70	34.154	1.96	2.39	33	0.01	167.2	200	9.51	34.24	-	26.46	157.8	.413	163	9.52	34.218	1.68	2.78	34	-	159.6	250	9.29	34.29	-	26.54	150.7	.492	198	9.30	34.267	1.45	2.87	37	-	152.5	300	8.98	34.35	-	26.63	141.5	.568	232	9.02	34.294	1.19	2.52U	40	-	146.3	400	8.09	34.35	-	26.77	128.4	.709	267	8.82	34.335	.98	2.70	44	-	140.2	307	8.82	34.335	.98	2.70	44	-	140.2
---	-------	--------	------	------	---	------	-------	---	-------	-------	---	-------	-------	---	----	-------	--------	------	------	---	------	-------	----	-------	-------	---	-------	-------	------	----	-------	--------	------	------	----	------	-------	----	-------	-------	---	-------	-------	------	----	-------	--------	------	------	----	------	-------	----	-------	-------	---	-------	-------	------	----	-------	--------	------	------	----	------	-------	----	-------	-------	---	-------	-------	------	----	-------	--------	------	------	----	------	-------	----	-------	-------	---	-------	-------	------	----	-------	--------	------	------	----	------	-------	-----	-------	-------	---	-------	-------	------	----	-------	--------	------	------	----	------	-------	-----	-------	-------	---	-------	-------	------	-----	------	--------	------	------	----	------	-------	-----	------	-------	---	-------	-------	------	-----	------	--------	------	------	----	------	-------	-----	------	-------	---	-------	-------	------	-----	------	--------	------	------	----	---	-------	-----	------	-------	---	-------	-------	------	-----	------	--------	------	------	----	---	-------	-----	------	-------	---	-------	-------	------	-----	------	--------	------	-------	----	---	-------	-----	------	-------	---	-------	-------	------	-----	------	--------	-----	------	----	---	-------	-----	------	--------	-----	------	----	---	-------

A) POSSIBLE EVAPORATION, VALUE FALLS ON PROPERTY CURVE.
 B) ALTERNATE VALUE, 8.93, NOT USED IN INTERPOLATION.
 N) POSSIBLE EVAPORATION, VALUE DOES NOT FALL ON PROPERTY CURVE.

OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH									
INPUT								COMPUTED									
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD			
90.32								CCOFI CRUISE 6507								90.32	
ALEXANDER AGASSIZ, JULY 25 1965, 1416 1343 GCT, 33 22N 118 02W, SOUNDING 380 FM, WIND 180 FORCE 1, WEATHER CLOUDY, SEA SLIGHT, WIRE ANGLE 03.																	
0	17.56	33.617	6.83	0.17	5	0.01	359.4	0	17.62	33.65	-	24.35	358.4	0			
10	15.72	33.545	6.55	0.28	5	0.00	324.0	10	15.83	33.58	-	24.71	323.8	.034			
31	12.82	33.575	4.82	0.71	10	0.04	263.8	20	13.65	33.52	-	25.14	283.7	.065			
40	11.87	33.618	4.45	1.22	13	0.13	243.3	30	12.83	33.58	-	25.35	263.6	.092			
51	11.21	33.625	4.15	1.43	15	0.04	231.2	50	11.05	33.65	-	25.74	226.6	.141			
65	10.62	33.650	4.13	1.60	17	0.00	219.4	75	10.75	33.80	-	25.91	210.5	.196			
81	10.61	33.811	3.17	1.86	22	0.00	207.3	100	10.27	33.96	-	26.11	190.7	.247			
101	10.16	33.944	2.72	2.05	24	0.00	190.1	125	9.97	34.05	-	26.24	179.2	.294			
126	9.81	34.048	2.47	2.23	28	0.00	176.8	150	9.70	34.14	-	26.35	168.2	.338			
146	9.62	34.097	2.22	2.30	30	0.00	170.1	200	9.26	34.25	-	26.51	153.2	.420			
176	9.33	34.191	1.82	2.48	34	0.00	158.6	250	9.02	34.32	-	26.60	144.3	.496			
206	9.10	34.229	1.53	2.59	36	0.00	152.3	300	8.63	34.34	-	26.68	137.0	.569			
236	8.95	34.273	1.30	2.68	39	0.00	146.8	400	7.45	34.29	-	26.82	124.0	.706			
275	8.80	34.298	1.09	2.76	42	0.00	142.6	500	6.78	34.31	-	26.93	113.6	.832			
335	8.24	34.310	.86	2.92	47	-	133.5	600	6.21	34.36	-	27.04	102.7	.948			
410	7.18	34.277	.72	3.06	57	-	121.3										
484	6.74	34.273	.60	3.15	61	-	115.9										
564	6.37	34.330	.43	3.25	69	-	106.9										
90.37								CCOFI CRUISE 6507								90.37	
ALEXANDER AGASSIZ, JULY 25 1965, 1050 1004 GCT, 33 11N 118 22.5W, SOUNDING 633 FM, WIND 230 FORCE 3, WEATHER MISSING, SEA SLIGHT, WIRE ANGLE 14.																	
0	17.36	33.604	6.52	0.19	2	0.00	355.8	0	17.46	33.63	-	24.37	356.2	0			
9	17.37	33.599	6.55	0.19	3	0.00	356.4	10	17.32	33.62	-	24.40	353.8	.036			
29	13.36	33.539	5.48	0.60	8	0.17	276.7	20	15.77	33.48	-	24.65	329.8	.070			
39	13.01	33.547	5.30	0.68	8	0.26	269.4	30	13.33	33.56	-	25.23	274.6	.100			
53	12.02	33.546	4.90	1.05	11	0.24	251.3	50	12.13	33.57	-	25.47	251.5	.153			
67	11.03	33.655	-	1.45	16	0.05	225.9	75	10.72	33.76	-	25.88	212.9	.211			
92	10.58	33.798	3.33	1.79	21	0.02	207.8	100	10.41	33.90	-	26.04	197.4	.263			
112	9.94	33.870	3.12	1.92	25	0.02	192.0	125	9.32	33.93	-	26.25	177.8	.310			
131	9.30	33.889	3.09	2.06	29	0.00	180.6	150	9.13	34.00	-	26.34	169.7	.355			
149	9.07	33.988	2.69	2.19	33	0.00	169.7	200	8.80	34.12	-	26.48	155.8	.438			
176	8.88	34.064	2.41	2.30	35	0.00	161.2	250	8.33	34.20	-	26.62	143.0	.514			
210	8.60	34.108	2.12	2.44	38	0.00	153.8	300	8.09	34.27	-	26.71	134.4	.586			
238	8.10	34.110	2.01	2.51	42	0.00	146.4	400	7.34	34.31	-	26.85	121.0	.720			
284	8.32	34.262	1.20	2.77	47	0.01	138.3	500	6.57	34.34	-	26.98	108.7	.841			
335	7.77	34.276	.95	2.92	53	-	129.4	600	5.97	34.37	-	27.08	99.1	.953			
416	7.08	34.303	.70	3.10	61	-	118.0										
497	6.43	34.327	.46	3.16	70	-	107.9										
582	5.89	34.352	.43	3.29	80	-	99.4										
90.45								CCOFI CRUISE 6507								90.45	
ALEXANDER AGASSIZ, JULY 25 1965 0609 0532 GCT, 32 54.5N 118 55.5W, SOUNDING 920 FM, WIND 300 FORCE 3, WEATHER OVERCAST, SEA SLIGHT, WIRE ANGLE 04.																	
0	17.16	33.635	6.06	0.21	2	0.00	349.0	0	17.20	33.63	-	24.44	350.3	0			
10	17.18	33.627	6.10	0.21	2	0.00	350.1	10	17.04	33.62	-	24.47	347.4	.035			
30	12.42	33.544	5.32	0.96	8	0.47	258.7	20	13.64	33.59	-	25.19	278.3	.066			
40	11.50	33.590	4.81	1.24	12	0.04	238.8	30	12.28	33.53	-	25.42	257.1	.093			
50	10.94	33.608	-	1.40	15	0.02	227.9	50	11.02	33.61	-	25.71	229.1	.142			
65	10.27	33.664	4.08	1.60	18	0.01	212.6	75	10.15	33.71	-	25.94	207.2	.197			
80	9.92	33.734	3.80	1.74	21	0.00	201.8	100	9.43	33.88	-	26.19	183.2	.246			
100	9.50	33.839	3.35	1.89	25	0.00	187.4	125	9.15	33.99	-	26.32	170.8	.291			
125	9.26	33.929	3.02	2.06	29	0.00	177.0	150	9.02	34.03	-	26.38	165.8	.334			
146	9.04	34.031	2.59	2.20	32	0.00	166.1	200	8.68	34.16	-	26.53	151.1	.414			
175	8.86	34.098	2.25	2.37	35	0.00	158.4	250	8.18	34.16	-	26.61	143.8	.490			
205	8.54	34.134	2.02	2.47	39	0.00	151.0	300	8.28	34.26	-	26.67	137.8	.563			
235	8.65	34.233	1.46	2.62	41	0.00	145.2	400	7.00	34.30	-	26.89	117.2	.696			
275	8.14	34.198	1.40	2.71	45	0.00	140.4	500	6.42	34.34	-	27.00	106.8	.815			
335	7.54	34.274	.80	2.97	54	-	126.4	600	5.91	34.38	-	27.10	97.6	.925			
409	6.90	34.289	.65	3.10	62	-	116.7										
484	6.42	34.318	.47	3.20	69	-	108.5										
564	5.94	34.349	.39	3.31	78	-	100.3										

OBSERVED LEVELS OF DEPTH STANDARD LEVELS OF DEPTH

INPUT								COMPUTED															
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DC									
90.53								CCOFI CRUISE 6507								90.53							
ALEXANDER AGASSIZ, JULY 25 1965, 0127 0043 GCT, 32 40.5N 119 28W, SOUNDING 700 FM, WIND 300 FORCE 4, WEATHER CLOUDY, SEA ROUGH, WIRE ANGLE 15.																							
0	16.20	33.710	6.07	0.39	5	0.05	322.3	0	16.18	33.69	-	24.72	323.3	0									
10	16.20	33.708	6.03	0.38	5	0.02	322.5	10	16.17	33.70	-	24.73	322.4	.032									
29	12.42	33.770	4.73	1.15	14	0.24	242.0	20	12.72	33.75	-	25.50	249.1	.061									
38	10.76	33.808	3.70	1.69	21	0.28	210.0	30	11.58	33.78	-	25.74	226.2	.085									
53	9.88	33.864	3.16	1.93	26	0.10	191.5	50	9.77	33.89	-	26.14	187.8	.126									
68	9.32	33.962	2.79	2.12	30	0.01	175.5	75	9.25	34.00	-	26.32	171.6	.172									
93	8.82	34.010	2.56	2.24	34	0.07	164.3	100	8.76	34.03	-	26.42	161.9	.214									
112	8.66	34.021	2.48	2.30	35	0.06	161.1	125	8.56	34.07	-	26.48	156.0	.254									
131	8.46	34.086	2.14	2.42	39	0.02	153.4	150	8.42	34.10	-	26.52	151.7	.293									
150	8.24	34.086	2.08	2.44	41	0.05	150.2	200	7.97	34.16	-	26.64	140.8	.368									
179	8.12	34.169	1.65	2.62	44	0.02	142.3	250	7.90	34.26	-	26.73	132.4	.438									
213	8.00	34.222	1.29	2.82	47	0.01	136.6	300	7.58	34.28	-	26.79	126.5	.505									
242	7.86	34.240	1.11	2.83	48	-	133.3	400	6.98	34.30	-	26.89	117.0	.632									
291	7.60	34.276	.90	2.95	56	-	127.1	500	6.43	34.34	-	27.00	108.9	.751									
344	7.08	34.274	.69	3.07	58	-	120.2	600	5.94	34.37	-	27.08	98.7	.861									
426	6.56	34.307	.51	3.18	67	-	111.0																
508	6.22	34.330	.42	3.25	72	-	105.1																
591	5.83	34.356	.37	3.43	81	-	98.4																

90.60 CCOFI CRUISE 6507 90.60

ALEXANDER AGASSIZ, JULY 24 1965, 2050 2005 GCT, 32 25N 119 57.5W, SOUNDING 525 FM, WIND 310 FORCE 4, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 38.

0	16.34	33.644	6.21	0.23	2	0.00	330.2	0	16.39	33.66	-	24.65	330.1	0
8	16.34	33.635	6.25	0.23	2	0.00	330.8	10	16.34	33.66	-	24.66	329.0	.033
28	14.08	33.644	5.65	0.67	6	0.17	283.0	20	15.25	33.63	-	24.88	307.9	.065
35	12.92	33.605	5.76	0.84	6	0.19	263.5	30	13.23	33.62	-	25.30	268.2	.094
46	12.10	33.659	4.99	1.16	12	0.29	244.4	50	11.89	33.69	-	25.61	238.3	.145
57	11.24	33.679	4.56	1.38	15	0.23	227.7	75	10.26	33.80	-	25.99	202.4	.200
76	10.02	33.784	3.60	1.77	22	0.08	199.7	100	9.43	33.95	-	26.25	178.0	.248
90	9.50	33.894	3.04	2.04	26	0.01	183.3	125	9.14	34.08	-	26.40	163.9	.291
103	9.30	33.942	2.98	2.13	29	0.00	176.6	150	8.88	34.14	-	26.48	155.6	.332
123	9.06	33.998	2.60	2.22	32	0.01	168.8	200	8.44	34.20	-	26.60	144.6	.409
143	9.00	34.090	2.34	2.34	34	0.02	161.1	250	8.08	34.22	-	26.67	137.9	.461
168	8.66	34.123	1.98	2.44	28	0.00	153.5	300	7.54	34.23	-	26.76	129.7	.550
187	8.44	34.142	1.83	2.53	40	-	148.9	400	6.78	34.28	-	26.90	115.9	.679
216	8.44	34.209	1.56	2.64	42	-	143.9	500	6.32	34.34	-	27.01	105.6	.796
255	7.82	34.198	1.27	2.79	48	-	135.9	600	5.87	34.38	-	27.10	97.1	.905
313	6.96	34.178	1.19	2.90	56	-	125.8							
380	6.70	34.269	.70	3.11	65	-	115.7							
449	6.54	34.298	.56	3.19	68	-	111.5							

90.70 CCOFI CRUISE 6507 90.70

ALEXANDER AGASSIZ, JULY 24 1965, 1436 1357 GCT, 32 04.5N 120 38.5W, SOUNDING 2055 FM, WIND 300 FORCE 4, WEATHER CLOUDY, SEA ROUGH, WIRE ANGLE 15.

0	16.05	33.347	5.90	0.41	3	0.00	345.6	0	16.09	33.36	-	24.49	345.5	0
10	16.06	33.328	5.94	0.39	3	0.00	347.2	10	16.09	33.37	-	24.50	344.8	.035
29	15.42	33.299	6.05	0.39	2	0.00	335.7	20	16.03	33.35	-	24.49	344.9	.069
39	14.86	33.283	6.18	0.41	3	0.00	325.2	30	15.55	33.33	-	24.59	336.1	.103
54	14.52	33.281	6.18	0.45	3	0.02	318.4	50	14.54	33.32	-	24.80	316.0	.169
68	14.22	33.315	6.20	0.53	4	0.07	309.9	75	13.98	33.35	-	24.94	302.6	.246
93	13.36	33.350	5.90	0.68	4	0.28	290.6	100	13.21	33.44	-	25.16	281.1	.320
112	12.67	33.471	5.34	0.83	7	0.37	268.6	125	11.83	33.46	-	25.45	254.2	.367
131	11.58	33.466	5.13	1.12	10	0.01	249.4	150	10.82	33.59	-	25.73	227.2	.448
151	10.68	33.578	-	1.44	15	0.00	225.7	200	8.90	33.95	-	26.33	170.0	.549
181	9.35	33.791	3.68	1.84	24	0.00	188.6	250	8.08	34.04	-	26.53	151.3	.632
213	8.68	33.946	3.23	2.03	30	0.00	167.0	300	7.58	34.11	-	26.66	139.1	.707
243	8.25	33.999	2.96	2.14	34	-	156.8	400	6.74	34.22	-	26.86	119.8	.842
291	7.58	34.063	2.16	2.51	45	-	142.6	500	6.42	34.31	-	26.97	109.1	.922
344	7.24	34.145	1.40	2.81	52	-	131.9	600	5.72	34.34	-	27.09	98.3	1.073
426	6.62	34.227	.82		62	-	117.8							
508	6.20	34.280	.51	3.21	69	-	108.6							
592	5.66	34.324	.40	3.28	80	-	98.8							

A) ONE PHOSPHATE SAMPLE WAS OMITTED FROM THE DATA SHEET. IT IS BELIEVED TO BE THE ONE AT THIS DEPTH BUT THE TWO FOLLOWING SAMPLES MAY ACTUALLY HAVE BELONGED TO THE PRECEDING DEPTH.

OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH							
INPUT								COMPUTED							
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD	
90.80								90.80							
CCOFI CRUISE 6507															
ALEXANDER AGASSIZ, JULY 24 1965, 0917 0840 GCT, 31 44N 121 19W, SOUNDING 1950 FM, WIND 300 FORCE 3, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 25.															
0	16.67	33.317	5.79	0.42	2	0.00	361.3	0	16.70	33.30	-	24.30	363.2	0	
9	16.68	33.310	5.80	0.39	2	0.00	362.0	10	16.70	33.30	-	24.30	363.2	.036	
28	16.41	33.334	5.79	0.41	2	0.00	354.3	20	16.65	33.34	-	24.34	359.2	.072	
37	16.28	33.337	5.87	0.39	2	0.00	351.3	30	16.43	33.34	-	24.39	354.3	.108	
50	16.04	33.409	5.93	0.38	2	0.00	340.8	50	15.85	33.37	-	24.55	339.6	.178	
64	15.49	33.341	6.02	0.36	2	0.00	334.1	75	14.95	33.62	-	24.94	302.4	.259	
87	14.65	33.566	5.94	0.37	3	0.00	300.2	100	13.72	33.60	-	25.18	279.2	.332	
105	13.80	33.700	5.68	0.50	4	0.11	273.4	125	12.21	33.68	-	25.54	244.8	.398	
123	12.65	33.661	5.27	0.82	7	0.02	254.3	150	10.82	33.80	-	25.89	211.6	.456	
140	11.66	33.756	4.23	1.04	10	0.01	229.4	200	9.07	33.98	-	26.33	170.3	.553	
166	9.88	33.766	4.92	1.56	19	0.00	198.8	250	8.28	34.07	-	26.52	151.9	.636	
196	9.18	33.918	3.36	1.95	26	0.00	176.6	300	7.67	34.12	-	26.65	139.6	.711	
222	8.68	34.012	2.96	2.12	32	-	162.1	400	6.77	34.22	-	26.86	120.2	.846	
265	8.02	34.047	2.72	2.29	39	-	149.9	500	5.95	34.22	-	26.96	110.0	.968	
314	7.68	34.129	1.78	2.67	47	-	139.1	600	5.65	34.35	-	27.10	96.8	1.078	
390	6.84	34.191	1.08	2.95	59	-	123.3								
468	6.22	34.245	.63	3.20	66	-	111.4								
551	5.64	34.303	.44	3.26	81	-	100.2								

90.90								90.90							
CCOFI CRUISE 6507															
ALEXANDER AGASSIZ, JULY 24 1965, 0355 0305 GCT, 31 24N 122 01W, SOUNDING 2040 FM, WIND 310 FORCE 3, WEATHER PARTLY CLOUDY, SEA ROUGH, WIRE ANGLE 14.															
0	16.64	33.324	5.86	-	2	0.00	360.1	0	16.66	33.32	-	24.33	360.9	0	
10	16.64	33.319	5.85	-	3	0.00	360.5	10	16.57	33.32	-	24.35	358.9	.036	
29	16.26	33.314	5.78	-	2	0.00	352.5	20	16.51	33.32	-	24.36	357.5	.072	
39	16.11	33.326	5.95	-	2	0.00	348.4	30	16.21	33.32	-	24.43	351.0	.107	
53	15.51	33.287	6.04	-	2	0.00	338.4	50	15.48	33.30	-	24.58	336.9	.176	
68	15.18	33.275	6.22	-	2	0.00	332.4	75	14.15	33.31	-	24.87	308.9	.258	
92	13.98	33.295	6.15	-	3	0.00	306.6	100	12.96	33.44	-	25.21	276.3	.331	
113	12.82	33.434	5.53	-	5	0.11	274.2	125	11.82	33.50	-	25.48	251.1	.398	
132	11.64	33.534	4.97	-	11	0.00	245.4	150	10.46	33.68	-	25.86	214.5	.457	
152	10.59	33.652	4.32	-	16	0.00	218.7	200	9.10	33.92	-	26.28	175.2	.556	
181	9.53	33.793	3.79	-	23	0.00	191.2	250	8.36	34.02	-	26.47	156.8	.641	
215	8.82	33.944	3.55	-	28	0.00	169.2	300	7.67	34.07	-	26.61	143.4	.718	
244	8.36	34.008	3.07	-	33	-	157.7	400	6.91	34.21	-	26.83	122.8	.857	
293	7.72	34.052	2.48	-	42	-	145.4	500	6.16	34.28	-	26.99	108.1	.979	
346	7.24	34.144	1.50	-	52	-	132.0	600	5.68	34.34	-	27.09	97.9	1.089	
429	6.60	34.223	.82	-	63	-	117.8								
512	6.00	34.262	.55	-	72	-	107.5								
595	5.62	34.322	.39	-	85	-	98.5								

90.100								90.100							
CCOFI CRUISE 6507															
ALEXANDER AGASSIZ, JULY 23 1965, 2248 2214 GCT, 31 04.5N 122 39W, SOUNDING 2170 FM, WIND 330 FORCE 3, WEATHER CLOUDY, SEA ROUGH, WIRE ANGLE 10.															
0	16.57	33.313	5.81	0.39	3	0.00	359.4	0	16.65	33.34	-	24.34	359.2	0	
10	16.40	33.307	5.83	0.38	3	0.00	356.1	10	16.50	33.34	-	24.38	355.9	.036	
29	15.76	33.284	5.96	0.42	3	0.00	344.0	20	16.30	33.34	-	24.42	351.5	.071	
39	15.56	33.284	6.03	0.40	3	0.00	339.7	30	15.88	33.33	-	24.51	343.2	.106	
54	15.24	33.267	6.03	0.39	3	0.00	334.2	50	15.58	33.34	-	24.59	336.0	.174	
68	14.48	33.215	6.17	0.43	3	0.00	322.5	75	14.26	33.21	-	24.77	318.4	.256	
94	13.18	33.255	6.00	0.56	4	0.07	294.1	100	13.05	33.40	-	25.16	281.0	.332	
113	11.94	33.353	5.43	0.83	7	0.09	264.1	125	11.59	33.50	-	25.52	247.0	.399	
133	11.24	33.570	4.93	1.13	12	0.01	235.8	150	10.57	33.73	-	25.88	212.6	.457	
153	10.15	33.753	4.65	1.31	16	0.00	204.1	200	9.15	33.95	-	26.29	173.7	.555	
182	9.47	33.856	4.53	1.46	20	0.00	185.6	250	8.41	34.01	-	26.46	158.3	.640	
217	8.76	33.966	4.24	1.64	25	0.00	166.7	300	7.62	34.03	-	26.59	145.6	.718	
248	8.46	33.988	3.76	1.84	29	-	160.6	400	6.48	34.17	-	26.86	120.3	.857	
297	7.50	34.024	2.82	2.32	42	-	144.5	500	6.13	34.29	-	27.00	107.0	.977	
351	6.81	34.103	1.69	2.76	53	-	129.5	600	5.68	34.34	-	27.09	97.9	1.086	
435	6.38	34.227	.81	3.12	66	-	114.8								
519	5.96	34.289	.53	3.25	73	-	105.0								
603	5.56	34.327	.42	3.34	81	-	97.4								

OBSERVED LEVELS OF DEPTH STANDARD LEVELS OF DEPTH

INPUT								COMPUTED								
Z	T	S	CXY	PHC	SIL	NIT	D*T	Z	T	S	CXY	SIG*T	D*T	CC		
90.110								CCOFI CRUISE 6507								90.110
ALEXANDER AGASSIZ, JULY 23 1965, 1652 1636 GCT, 30 46N 123 19W, SOUNDING 2056 FM, WIND 340 FORCE 2, WEATHER CLOUDY, SEA MODERATE, WIRE ANGLE 22.																
2426A	1.86	34.646	2.61	2.89	155	-	38.2	0	16.60	33.40	-	24.40	353.7	0		
2521	1.80	34.650	2.46	2.86	157	-	37.6	10	16.60	33.40	-	24.40	353.7	.035		
2615	1.78	34.653	2.59	2.88	153	-	37.3	20	16.60	33.40	-	24.40	353.7	.071		
2708	1.72	34.661	2.73	2.85	156	-	36.2	30	16.53	33.42	-	24.43	350.7	.106		
2801	1.70	34.669	2.72	2.85	157	-	35.5	50	15.96	33.42	-	24.56	338.3	.175		
2893	1.66	34.664	2.83	2.85	156	-	35.6	75	14.59	33.40	-	24.85	311.1	.257		
2987	1.64	34.665	2.84	2.85	156	-	35.4	100	13.10	33.50	-	25.23	274.6	.331		
3084	1.62	34.677	2.87	2.85	156	-	34.3	125	11.53	33.47	-	25.51	248.2	.397		
3178	1.60	34.665	2.95	2.79	159	-	35.1	150	10.61	33.60	-	25.78	222.9	.456		
3275	1.58	34.669	3.02	2.77	157	-	34.6	200	9.70	33.96	-	26.21	181.5	.559		
3370	1.56	34.666	3.05	2.76	160	-	34.7	250	8.59	34.02	-	26.44	160.2	.647		
3467	1.55	34.672	3.15	2.77	159	-	34.2	300	7.44	34.04	-	26.62	142.5	.725		
3563	1.54	34.681	3.12	2.74	159	-	33.5	400	6.23	34.08	-	26.82	123.9	.863		
3662	1.55	34.677	3.23	2.70	158	-	33.8	500	5.57	34.17	-	26.97	109.3	.985		
3760	1.56	34.676	3.18	2.65	159	-	34.0	600	5.08	34.26	-	27.10	97.1	1.095		

90.120 CCOFI CRUISE 6507 90.120

ALEXANDER AGASSIZ, JULY 23 1965, 1117 1040 GCT, 30 25.5N 123 59W, SOUNDING 2215 FM, WIND 360 FORCE 2, WEATHER MISSING, SEA MISSING, WIRE ANGLE 10.

0	17.54	33.401	5.69	0.36	3	0.00	374.7	0	17.56	33.40	-	24.18	375.2	0
10	17.55	33.399	5.72	0.36	3	0.00	375.1	10	17.56	33.40	-	24.18	375.2	.038
40	17.30	33.753	5.89	0.27	2	0.00	343.6	20	17.58	33.43	-	24.19	373.5	.075
64	16.25	33.813	5.98	0.27	3	0.00	315.9	30	17.52	33.47	-	24.24	369.2	.112
84	15.40	33.657	5.97	0.28	3	0.00	309.1	50	16.64	33.72	-	24.64	331.2	.183
98	15.87	33.909	5.87	0.24	3	0.00	300.7	75	15.45	33.64	-	24.85	311.4	.263
114	15.50	33.922	5.76	0.27	3	0.01	291.8	100	15.76	33.89	-	24.97	299.7	.340
134	13.30	33.641	5.60	0.47	5	0.12	268.0	125	14.71	33.80	-	25.13	284.3	.414
154	11.67	33.552	5.37	0.76	10	0.01	244.6	150	12.02	33.56	-	25.49	250.2	.482
178	11.05	33.935	5.02	0.93	12	0.00	205.6	200	10.16	33.91	-	26.09	192.6	.594
202	9.82	33.900	4.81	1.28	17	0.00	187.9	250	8.85	34.00	-	26.38	165.5	.666
226	9.14	33.959	4.56	1.46	22	0.00	172.9	300	7.94	34.03	-	26.54	150.1	.768
255	8.54	34.000	4.04	1.68	28	0.00	160.9	400	6.50	34.06	-	26.77	128.7	.912
289	7.94	34.014	3.52	1.97	36	-	151.3	500	5.69	34.16	-	26.95	111.5	1.038
336	7.07	34.022	2.89	2.30	46	-	138.9	600	4.96	34.23	-	27.09	98.0	1.149
398	6.32	34.051	2.02	2.63	57	-	127.2							
471	5.72	34.118	1.21	2.92	70	-	115.0							
549	5.10	34.178	.74	3.17	84	-	103.4							

90.140 CCOFI CRUISE 6507 90.140

ALEXANDER AGASSIZ, JULY 23 1965, 0219 0144 GCT, 29 46N 125 20W, SOUNDING 2350 FM, WIND 360 FORCE 3, WEATHER PARTLY CLOUDY, SEA MODERATE, WIRE ANGLE 06.

0	18.10	33.651	5.66	0.34	2	0.00	369.5	0	18.13	33.68	-	24.25	368.0	0
10	18.02	33.652	5.69	0.32	2	0.00	367.5	10	18.00	33.68	-	24.28	365.0	.037
40	17.56	33.661	5.75	0.35	2	0.00	356.2	20	17.93	33.68	-	24.30	363.4	.073
100	16.36	33.996	5.81	0.29	3	0.00	304.9	30	17.85	33.69	-	24.33	360.8	.109
								50	17.30	33.83	-	24.57	338.0	.180
								75	16.66	33.96	-	24.82	314.2	.262
								100	16.44	34.06	-	24.94	302.0	.339
								125	16.11	34.14	-	25.08	289.0	.414
								150	14.27	34.03	-	25.40	258.5	.483
								200	10.85	33.87	-	25.94	207.0	.602
								250	9.26	33.97	-	26.29	173.9	.699
								300	8.30	34.02	-	26.48	155.9	.784
								400	6.76	34.09	-	26.76	129.8	.933
								500	6.08	34.19	-	26.92	113.8	1.061
								600	5.52	34.26	-	27.05	102.0	1.176

A) THE SAMPLE BOTTLE CAST WAS LOWERED TO COLLECT DATA FROM THE DEEP LAYERS ONLY.

OBSERVED LEVELS OF DEPTH

STANDARD LEVELS OF DEPTH

INPUT								COMPUTED							
Z	T	S	CXY	PHD	SIL	NIT	D*T	Z	T	S	CXY	SIG*T	D*T	CC	
90.160								90.160							
CCOFI CRUISE 6507								CCOFI CRUISE 6507							
ALEXANDER AGASSIZ, JULY 22 1965, 1706 1633 GCT, 29 05N 126 40W, SOUNDING 2100 FM, WIND 350 FORCE 3, WEATHER CLOUDY, SEA MODERATE, WIRE ANGLE 10.															
0	17.86	33.575	5.61	0.31	3	0.00	369.4	0	17.93	33.60	-	24.24	369.2	0	
10	17.90	33.570	5.69	0.31	3	0.00	370.7	10	17.93	33.61	-	24.25	368.5	.037	
15	17.87	33.567	5.67	0.31	3	0.00	370.2	20	17.75	33.59	-	24.27	365.8	.074	
99	16.12	33.953	5.79	0.27	3	0.00	302.8	30	17.41	33.57	-	24.34	359.4	.110	
								50	16.86	33.80	-	24.65	330.3	.179	
								75	16.52	33.93	-	24.83	313.3	.260	
								100	16.16	34.02	-	24.98	298.8	.337	
								125	15.54	34.10	-	25.18	279.7	.410	
								150	13.56	33.92	-	25.46	252.6	.478	
								200	10.20	33.84	-	26.03	198.4	.593	
								250	9.04	34.04	-	26.38	165.4	.686	
								300	8.75	34.14	-	26.51	153.6	.768	
								400	7.97	34.23	-	26.69	135.6	.919	
								500	6.87	34.23	-	26.85	120.7	1.054	
								600	5.82	34.23	-	26.99	107.7	1.176	

90.180

CCOFI CRUISE 6507

90.180

ALEXANDER AGASSIZ, JULY 22 1965, 0849 0820 GCT, 28 24.5N 127 58.5W, SOUNDING 2460 FM, WIND 060 FORCE 4, WEATHER RAIN, SEA SLIGHT, WIRE ANGLE 08.

0	19.06	34.158	5.52	0.20	3	0.00	355.4	0	19.14	34.18	-	24.38	355.8	0
10	19.07	34.153	5.57	0.16	2	0.00	356.0	10	19.13	34.20	-	24.40	354.1	.036
50	18.80	34.232	5.60	0.16	2	0.00	343.8	20	19.02	34.27	-	24.48	346.3	.071
99	18.04	34.490	5.68	0.11	2	0.00	307.0	30	18.97	34.27	-	24.49	345.1	.105
								50	18.71	34.26	-	24.55	339.6	.174
								75	18.10	34.29	-	24.72	323.0	.257
								100	18.01	34.51	-	24.91	304.9	.337
								125	18.00	34.67	-	25.04	293.0	.412
								150	17.36	34.62	-	25.16	281.8	.485
								200	12.57	33.90	-	25.65	235.2	.617
								250	9.96	33.95	-	26.16	186.4	.725
								300	8.70	34.02	-	26.42	161.8	.814
								400	7.12	34.06	-	26.68	136.7	.970
								500	6.06	34.16	-	26.90	115.8	1.102
								600	5.45	34.26	-	27.06	101.2	1.218

90.200

CCOFI CRUISE 6507

90.200

ALEXANDER AGASSIZ, JULY 21 1965, 2347 2250 GCT, 27 45N 129 18.5W, SOUNDING 2100 FM, WIND 060 FORCE 2, WEATHER OVERCAST, SEA SLIGHT, WIRE ANGLE 07.

0	19.80	34.367	5.45	0.29	3	-	358.4	0	19.87	34.39	-	24.35	358.5	0
10	19.57	34.356	5.49	0.24	3	0.00	353.5	10	19.57	34.39	-	24.43	351.1	.035
30	19.22	34.325	5.53	0.24	2	0.00	347.2	20	19.52	34.38	-	24.43	350.6	.071
40	19.11	34.463	5.62	0.21	2	0.00	334.5	30	19.28	34.51	-	24.59	335.2	.105
56	18.82	34.470	5.64	0.25	2	0.00	327.0	50	18.75	34.48	-	24.71	324.6	.171
70	18.06	34.419	5.76	0.22	2	0.00	312.7	75	18.19	34.59	-	24.93	303.3	.250
95	18.06	34.577	5.67	0.20	2	0.00	301.2	100	17.94	34.63	-	25.02	294.5	.326
115	18.12	34.691	5.44	0.19	3	0.00	294.3	125	17.77	34.68	-	25.10	286.9	.399
135	17.79	34.691	5.43	0.23	3	0.07	286.6	150	16.84	34.55	-	25.23	275.2	.471
155	16.81	34.514	5.34	0.26	3	0.19	277.1	200	13.04	34.10	-	25.71	229.4	.599
184	14.87	34.286	5.15	0.49	5	0.01	252.0	250	10.20	33.96	-	26.13	189.6	.707
219	11.26	33.964	4.96	0.96	11	0.00	207.1	300	8.93	34.02	-	26.38	165.2	.798
249	10.24	33.939	4.81	1.18	14	0.00	191.8	400	7.00	34.04	-	26.68	136.6	.955
297	8.92	34.004	4.39	1.56	24	0.00	166.3	500	6.07	34.12	-	26.87	119.0	1.089
350	7.92	34.022	3.59	2.00	34	-	150.4	600	5.56	34.24	-	27.03	104.0	1.207
433	6.44	34.053	2.09	2.65	53	0.00	128.5							
517	5.78	34.169	.97	3.11	69	0.00	111.8							
601	5.30	34.257	.55	3.30	76	0.00	99.7							

93.28

CCOFI CRUISE 6507

93.28

BLACK DOUGLAS, JUNE 20 1965, 0625 GMT, 32 54.5N 117 23W, SOUNDING 250 FM, WIND 280 FORCE 3, WEATHER CLOUDY, SEA SLIGHT, WIRE ANGLE 02.

0	16.88	33.644	6.17	-	-	-	342.1	0	16.88	33.64	6.17	24.52	342.4	0
10	13.04	33.563	5.76	-	-	-	268.8	10	13.04	33.56	5.76	25.29	269.0	.031
29	11.58	33.576	4.48	-	-	-	241.2	20	12.10	33.56	5.03	25.47	251.7	.057
44	10.62	33.661	3.89	-	-	-	218.6	30	11.30	33.58	4.30	25.64	236.1	.081
53	10.30	33.696	3.75	-	-	-	210.7	50	10.30	33.70	3.76	25.91	210.4	.126
68	9.87	33.761	3.58	-	-	-	199.0	75	9.74	33.82	3.42	26.10	192.5	.177
83	9.54	33.890	3.14	-	-	-	184.2	100	9.90	34.08	2.26	26.27	175.8	.223
97	9.76	34.026	2.37	-	-	-	177.6	125	9.81	34.17	1.84	26.36	167.7	.267
122	9.81	34.154	1.89	-	-	-	168.9	150	9.84	34.24	1.47	26.41	163.0	.309
141	9.82	34.222	1.54	-	-	-	164.0	200	9.36	34.25	1.39	26.49	154.7	.390
170	9.86	34.276	1.17	-	-	-	160.7	250	9.39	34.34	.95	26.56	148.5	.468
199	9.36	34.246	1.39	-	-	-	155.0	300	8.96	34.35	.81	26.64	141.2	.543
233	9.44	34.326	1.03	-	-	-	150.3	400	7.55	34.28	.73	26.80	126.1	.683
286	9.17	34.379	.78	-	-	-	142.2							
340	8.18	34.269	.99	-	-	-	135.7							
398	7.57	34.279	.74	-	-	-	126.4							

OBSERVED LEVELS OF DEPTH STANDARD LEVELS OF DEPTH

INPUT								COMPUTED									
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DC			
93.30								CCOFI CRUISE 6507								93.30	
BLACK DOUGLAS, JUNE 20 1965, 0902 GMT, 32 50.5N 117 31W, SOUNDING 450 FM, WIND 280 FCRCE 1, WEATHER CLOUDY, SEA SLIGHT, WIRE ANGLE 03.																	
0	17.30	33.591	6.17	-	-	-	355.4	0	17.30	33.59	6.17	24.38	355.5	0			
10	16.35	33.589	6.55	-	-	-	334.4	10	16.35	33.59	6.55	24.60	334.3	.035			
29	12.10	33.583	5.01	-	-	-	250.0	20	12.85	33.59	5.34	25.35	263.3	.064			
39	11.26	33.567	4.55	-	-	-	236.3	30	12.00	33.58	4.96	25.51	248.4	.090			
49	10.75	33.627	4.07	-	-	-	223.3	50	10.71	33.63	4.06	25.78	222.4	.137			
63	10.00	33.725	3.74	-	-	-	203.7	75	9.58	33.80	3.41	26.11	191.5	.169			
78	9.56	33.834	3.39	-	-	-	188.7	100	10.19	34.16	1.82	26.28	174.6	.236			
97	10.18	34.140	1.86	-	-	-	175.9	125	9.80	34.20	1.64	26.38	165.4	.279			
120	9.82	34.197	1.67	-	-	-	165.9	150	9.77	34.25	1.46	26.43	161.2	.320			
140	9.78	34.234	1.52	-	-	-	162.5	200	9.21	34.23	1.53	26.50	153.9	.411			
169	9.74	34.274	1.37	-	-	-	158.9	250	9.05	34.30	1.16	26.58	146.3	.478			
198	9.21	34.223	1.58	-	-	-	154.4	300	8.52	34.29	.99	26.66	139.1	.552			
227	9.32	34.322	1.16	-	-	-	148.8	400	7.49	34.28	.75	26.80	125.3	.650			
265	8.86	34.288	1.15	-	-	-	144.3	500	6.66	34.34	.41	26.97	109.8	.815			
323	8.30	34.291	.89	-	-	-	135.8										
396	7.54	34.276	.77	-	-	-	126.2										
469	6.95	34.317	.49	-	-	-	115.3										
548	6.19	34.358	.32	-	-	-	102.6										

93.40 CCOFI CRUISE 6507 93.40

BLACK DOUGLAS, JUNE 20 1965, 1419 GMT, 32 30N 118 11.5W, SOUNDING 900 FM, WIND 280 FCRCE 3, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 03.

0	16.55	33.829U	5.84	-	-	-	321.3	0	16.55	33.72	5.84	24.66	329.2	0
10	16.54	33.722	5.92	-	-	-	328.9	10	16.54	33.72	5.92	24.66	329.0	.033
29	11.01	33.638	3.96	-	-	-	226.8	20	12.00	33.65	4.29	25.56	243.2	.062
39	10.52	33.696	3.69	-	-	-	214.3	30	10.95	33.64	3.91	25.75	225.7	.085
48	10.06	33.863	3.15	-	-	-	194.5	50	9.47	33.96	2.90	26.25	177.9	.126
77	9.42	33.973	2.84	-	-	-	176.2	75	9.24	34.10	2.25	26.40	164.0	.169
97	9.22	34.072	2.41	-	-	-	165.8	100	9.28	34.24	1.70	26.50	154.2	.209
121	9.40	34.250	1.47	-	-	-	155.4	125	8.60	34.17	1.90	26.55	149.2	.247
140	8.70	34.160	1.93	-	-	-	151.4	150	8.75	34.32	1.03	26.65	140.3	.284
169	8.50	34.195	1.76	-	-	-	145.8	200	8.14	34.34	1.12	26.76	129.9	.353
198	8.75	34.316	1.07	-	-	-	140.6	250	7.52	34.33	.82	26.84	121.9	.418
228	8.69	34.339	.97	-	-	-	138.0	300	6.93	34.31	.45	26.91	115.6	.480
266	7.74	34.333	1.22	-	-	-	124.7	400	6.21	34.34	.33	27.03	104.2	.595
323	7.42	34.451U	.63	-	-	-	111.6							
396	6.95	34.313	.46	-	-	-	115.6							
469	6.41	34.326	.36	-	-	-	107.7							
546	5.86	34.355	.29	-	-	-	98.9							

93.50 CCOFI CRUISE 6507 93.50

BLACK DOUGLAS, JUNE 20 1965, 2010 GMT, 32 09N 118 49W, SOUNDING 700 FM, WIND 290 FORCE 3, WEATHER CLOUDY, SEA MODERATE, WIRE ANGLE 06.

0	14.46	33.565	6.09	-	-	-	296.4	0	14.46	33.56	6.09	25.00	296.8	0
10	14.26	33.566	6.15	-	-	-	292.3	10	14.26	33.57	6.15	25.05	292.0	.029
29	13.84	33.502	5.98	-	-	-	288.7	20	14.10	33.55	6.10	25.07	290.3	.059
52	12.48	-	5.64	-	-	-	-	30	13.79	33.50	5.93	25.09	287.9	.088
62	12.12	33.523	5.40	-	-	-	254.8	50	12.60	33.51	5.67	25.34	264.5	.143
72	11.38	33.560	4.79	-	-	-	238.9	75	11.09	33.59	4.60	25.68	231.7	.205
86	10.12	33.697	4.05	-	-	-	207.7	100	9.79	33.74	3.80	26.02	199.2	.260
101	9.78	33.747	3.79	-	-	-	198.6	125	9.29	33.90	2.96	26.23	179.6	.308
124	9.30	33.900	2.98	-	-	-	179.7	150	8.87	33.98	2.69	26.36	167.3	.352
144	8.95	33.961	2.78	-	-	-	169.9	200	8.25	34.08	2.13	26.54	150.8	.433
169	8.62	34.030	2.41	-	-	-	159.9	250	7.98	34.19	1.30	26.66	138.7	.507
197	8.27	34.069	2.20	-	-	-	151.9	300	7.69	34.24	.99	26.74	131.0	.577
226	8.12	34.150	1.55	-	-	-	143.7	400	6.88	34.29	.53	26.90	116.4	.706
266	7.89	34.204	1.17	-	-	-	136.4	500	6.32	34.32	.36	27.00	107.1	.824
323	7.54	34.255	.83	-	-	-	127.8							
397	6.90	34.282	.55	-	-	-	117.3							
469	6.50	34.309	.40	-	-	-	110.1							
547	6.04	34.337	.32	-	-	-	102.4							

OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH									
INPUT								COMPUTED									
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD			
93.60								CCDFI CRUISE 6507								93.60	
BLACK DOUGLAS, JUNE 21 1965, 0228 GMT, 31 50N 119 34W, SOUNDING 1200 FM, WIND 300 FORCE 4, WEATHER OVERCAST, SEA VERY ROUGH, WIRE ANGLE 15.																	
0	15.12	33.396	5.94	-	-	-	322.3	0	15.12	33.40	5.94	24.73	322.0	0			
9	14.56	33.340	6.01	-	-	-	314.9	10	14.48	33.34	6.01	24.83	313.3	.032			
28	13.86	33.396	5.96	-	-	-	296.9	20	14.23	33.36	6.00	24.89	306.8	.063			
37	13.03	33.420	5.76	-	-	-	279.1	30	13.58	33.40	5.90	25.06	291.1	.093			
51	12.40	33.473	5.33	-	-	-	263.5	50	12.45	33.47	5.37	25.34	264.7	.149			
65	11.90	33.486	5.04	-	-	-	253.5	75	11.40	33.52	4.77	25.57	242.2	.212			
88	10.96	33.569	4.47	-	-	-	231.1	100	10.40	33.62	4.09	25.83	218.0	.270			
108	10.31	33.659	3.98	-	-	-	213.6	125	9.62	33.76	3.69	26.07	195.1	.322			
125	9.62	33.764	3.69	-	-	-	194.8	150	9.15	33.88	3.29	26.24	178.9	.370			
145	9.25	33.853	3.37	-	-	-	182.5	200	8.42	34.00	2.95	26.45	159.2	.456			
174	8.70	33.952	3.08	-	-	-	166.8	250	7.79	34.07	2.30	26.60	145.0	.534			
206	8.34	34.010	2.89	-	-	-	157.3	300	7.14	34.09	1.75	26.70	134.7	.606			
235	7.97	34.053	2.52	-	-	-	148.8	400	6.22	34.18	.86	26.90	116.3	.737			
281	7.42	34.080	1.96	-	-	-	139.2	500	5.81	34.30	.45	27.05	102.4	.852			
333	6.70	34.116	1.40	-	-	-	127.1										
411	6.16	34.193	.77	-	-	-	114.6										
496	5.82	34.291	.46	-	-	-	103.2										
579	5.50	34.327	.32	-	-	-	96.8										

93.70								CCDFI CRUISE 6507								93.70	
BLACK DOUGLAS, JUNE 21 1965, 0833 GMT, 31 28N 120 13W, SOUNDING 2000+ FM, WIND 320 FORCE 4, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 10.																	
0	14.95	33.425	5.89	-	-	-	316.7	0	14.95	33.42	5.89	24.79	317.0	0			
10	14.63	33.443	6.01	-	-	-	308.8	10	14.63	33.44	6.01	24.87	309.0	.031			
29	13.50	33.562	6.06	-	-	-	277.7	20	13.75	33.55	6.05	25.14	283.4	.061			
38	13.46	33.562	5.95	-	-	-	276.9	30	13.49	33.56	6.05	25.20	277.6	.089			
52	12.38	33.486	5.56	-	-	-	262.2	50	12.55	33.49	5.59	25.33	265.0	.144			
67	11.78	33.539	5.40	-	-	-	247.5	75	11.52	33.55	5.13	25.57	242.1	.207			
90	10.98	33.596	4.44	-	-	-	229.4	100	10.40	33.64	4.08	25.84	216.5	.265			
110	10.17	33.658	3.97	-	-	-	211.4	125	9.74	33.73	3.72	26.03	199.2	.318			
129	9.62	33.753	3.66	-	-	-	195.6	150	9.22	33.86	3.43	26.21	181.5	.366			
149	9.23	33.856	3.45	-	-	-	181.9	200	8.43	34.00	2.92	26.45	159.3	.453			
179	8.72	33.965	2.95	-	-	-	166.2	250	7.63	34.05	2.32	26.60	144.3	.531			
214	8.21	34.019	2.91	-	-	-	154.7	300	7.05	34.08	1.80	26.71	134.3	.602			
243	7.72	34.048	2.41	-	-	-	145.7	400	6.23	34.16	.92	26.88	117.9	.733			
292	7.13	34.077	1.87	-	-	-	135.6	500	5.81	34.28	.49	27.03	103.9	.850			
347	6.61	34.111	1.36	-	-	-	126.3	600	5.32	34.34	.29	27.14	93.7	.956			
428	6.10	34.193	.73	-	-	-	113.9										
513	5.76	34.298	.45	-	-	-	101.9										
597	5.34	34.340	.29	-	-	-	94.0										

93.80								CCDFI CRUISE 6507								93.80	
BLACK DOUGLAS, JUNE 21 1965, 1345 GMT, 31 05.5N 120 50.5W, SOUNDING 2050 FM, WIND 320 FORCE 2, WEATHER OVERCAST, SEA ROUGH, WIRE ANGLE 07.																	
0	15.50	33.298	5.78	-	-	-	337.4	0	15.50	33.30	5.78	24.57	337.3	0			
10	15.50	33.298	5.80	-	-	-	337.4	10	15.50	33.30	5.80	24.57	337.3	.034			
29	14.85	33.218	5.88	-	-	-	329.8	20	14.91	33.22	5.87	24.64	330.9	.067			
53	14.46	33.241	5.93	-	-	-	320.2	30	14.85	33.22	5.88	24.65	329.6	.100			
64	14.02	33.269	5.96	-	-	-	309.3	50	14.70	33.22	5.90	24.69	326.6	.166			
73	13.30	33.248	5.84	-	-	-	296.9	75	12.95	33.23	5.78	25.05	291.6	.244			
87	12.08	33.244	5.59	-	-	-	274.6	100	11.37	33.31	5.19	25.41	257.2	.313			
101	11.36	33.313	5.18	-	-	-	256.8	125	10.43	33.50	4.53	25.73	227.3	.374			
126	10.40	33.502	4.51	-	-	-	226.7	150	9.67	33.78	3.90	26.08	194.4	.427			
146	9.78	33.753	4.01	-	-	-	198.1	200	8.69	34.00	2.87	26.40	163.1	.519			
169	9.22	33.860	3.42	-	-	-	181.5	250	8.12	34.09	2.17	26.56	148.2	.598			
197	8.74	33.984	2.91	-	-	-	165.0	300	7.61	34.15	1.51	26.68	136.6	.672			
226	8.39	34.042	2.56	-	-	-	155.6	400	6.73	34.20	.86	26.85	121.2	.806			
264	7.98	34.102	1.95	-	-	-	145.3	500	6.00	34.28	.43	27.01	106.1	.926			
321	7.42	34.162	1.34	-	-	-	133.1										
392	6.81	34.197	.90	-	-	-	122.4										
465	6.17	34.248	.53	-	-	-	110.6										
543	5.86	34.315	.36	-	-	-	101.9										

OBSERVED LEVELS OF DEPTH

STANDARD LEVELS OF DEPTH

OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH							
INPUT								COMPUTED							
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD	
93.90								93.90							
CCOFI CRUISE 6507															
BLACK DOUGLAS, JUNE 21 1965, 1907 GMT, 30 44N 121 28.5W, SOUNDING 2000+ FM, WIND 300 FORCE 3, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 04.															
0	16.08	33.438	5.67	-	-	-	339.6	0	16.08	33.44	5.67	24.55	339.4	0	
10	16.06	33.432	5.71	-	-	-	339.6	10	16.06	33.43	5.71	24.55	339.7	.034	
29	15.93	33.428	5.74	-	-	-	337.1	20	16.00	33.43	5.72	24.56	338.4	.068	
58	14.29	33.357	6.04	-	-	-	308.3	30	15.92	33.43	5.75	24.58	336.7	.102	
68	13.68	33.404	5.85	-	-	-	292.8	50	14.90	33.37	5.94	24.76	319.7	.168	
83	13.55	33.663	5.43	-	-	-	271.2	75	13.40	33.45	5.70	25.13	284.0	.243	
98	12.00	33.475	5.07	-	-	-	256.1	100	11.97	33.48	5.02	25.44	255.2	.311	
112	11.24	33.573	4.33	-	-	-	235.6	125	10.47	33.67	4.15	25.85	215.4	.371	
136	10.08	33.718	4.05	-	-	-	205.5	150	9.71	33.79	3.50	26.08	194.3	.423	
155	9.57	33.819	3.36	-	-	-	189.9	200	8.64	33.99	3.22	26.40	163.1	.514	
184	8.96	33.941	3.44	-	-	-	171.5	250	7.80	34.04	2.57	26.57	147.4	.593	
213	8.40	34.020	3.01	-	-	-	157.4	300	7.25	34.08	1.93	26.68	136.9	.667	
242	7.90	34.033	2.68	-	-	-	149.3	400	6.33	34.17	.92	26.88	118.4	.799	
290	7.36	34.068	2.04	-	-	-	139.3	500	5.73	34.26	.51	27.02	104.4	.917	
344	6.77	34.110	1.51	-	-	-	128.4	600	5.34	34.33	-	27.13	94.7	1.023	
425	6.17	34.193	.74	-	-	-	114.7								
506	5.69	34.261	.50	-	-	-	103.9								
589	5.36	34.322	.32	-	-	-	95.5								

94.29 CCOFI CRUISE 6507 94.29

ALEXANDER AGASSIZ, JULY 7 1965, 2149 2206 GCT, 32 43N 117 22W, SOUNDING 125 FM, WIND 270 FORCE 2, WEATHER CLOUDY, SEA MODERATE, WIRE ANGLE 18.A)

0	18.30	33.654	5.97	0.27	3	0.05	373.9	0	18.45	33.69	-	24.18	374.8	0
9	14.33	33.542	6.12	0.42	5	0.10	295.5	10	14.20	33.51	-	25.01	295.2	.034
19	12.62	33.494	5.36	0.89	7	0.56	266.0	20	12.62	33.50	-	25.33	265.6	.062
28	12.20	33.516	5.50	1.04	8	0.62	256.7	30	12.05	33.56	-	25.48	250.8	.087
38	11.60	33.577	4.87	1.24	11	0.06	241.5	50	10.85	33.69	-	25.80	220.3	.135
47	11.08	33.666	4.10	1.53	17	0.27	226.0	75	10.31	33.87	-	26.04	198.0	.187
56	10.36	33.685	4.03	1.58	18	0.05	212.5	100	10.11	33.95	-	26.13	188.8	.236
65	10.22	33.761	3.59	1.83	22	0.10	204.6							
74	10.24	33.850	3.14	2.01	26	0.02	198.3							
83	10.12	-	2.98	-	-	-	-							
92	10.05	33.879	3.25	2.01	26	0.07	193.1							
102	10.00	33.906	2.94	2.00	27	0.07	190.3							
111	9.92	33.951	2.80	2.12	27	0.04	185.7							

94.30 CCOFI CRUISE 6507 94.30

BLACK DOUGLAS JUNE 15 1965, 2340 GMT, 32 44.5N 117 24W, SOUNDING 200 FM, WIND 270 FORCE 4, WEATHER CLOUDY, SEA ROUGH, WIRE ANGLE 08.A)

0	16.84	33.650	5.98	-	-	-	340.8
10	15.18	33.587	6.55	-	-	-	309.6
19	12.01	33.556	4.57	-	-	-	250.4
30	11.24	33.573	4.45	-	-	-	235.6
38	10.82	33.612	4.23	-	-	-	225.5
48	10.43	33.682	3.88	-	-	-	213.9
57	9.97	33.809	3.35	-	-	-	197.0
67	9.82	33.886	3.03	-	-	-	188.9
77	9.78	33.935	2.81	-	-	-	184.7
86	9.74	33.957	2.77	-	-	-	182.4
96	9.55	33.955	2.87	-	-	-	179.5
106	9.52	33.961	2.86	-	-	-	178.6
115	9.60	34.016	2.58	-	-	-	175.8
124	9.57	34.036	2.43	-	-	-	173.9
134	9.49	34.058	2.32	-	-	-	171.0
145	9.34	34.112	2.17	-	-	-	164.6
154	9.40	34.156	1.97	-	-	-	162.3
164	9.39	34.178	1.86	-	-	-	160.5

A) SHAKEDOWN STATION.

OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH									
INPUT								COMPUTED									
Z	T	S	OXY	PHO	SIL	NIT	D* ^T	Z	T	S	OXY	SIG* ^T	D* ^T	DD			
97.35								CCOFI CRUISE 6507								97.35	
BLACK DOUGLAS, JUNE 23 1965, 0950 GMT, 32 05.5N 117 28.5W, SOUNDING 700 FM, WIND 270 FORCE 2, WEATHER CLOUDY, SEA SLIGHT, WIRE ANGLE 02.																	
0	15.00	33.475	5.99	-	-	-	314.0	0	15.00	33.48	5.99	24.82	313.7	0			
10	15.01	33.470	5.99	-	-	-	314.6	10	15.01	33.47	5.99	24.81	314.6	.031			
29	13.26	33.442	5.83	-	-	-	281.9	20	13.93	33.45	5.92	25.02	294.3	.062			
39	12.63	33.460	5.40	-	-	-	268.7	30	13.18	33.44	5.79	25.17	280.5	.091			
49	11.84	33.431	5.13	-	-	-	256.5	50	11.81	33.43	5.11	25.43	256.1	.145			
64	11.42	33.483	4.81	-	-	-	245.3	75	11.00	33.58	4.38	25.69	230.9	.206			
79	10.92	33.589	4.34	-	-	-	228.9	100	9.87	33.75	3.70	26.02	199.8	.260			
98	9.92	33.736	3.73	-	-	-	201.6	125	9.34	33.87	3.32	26.20	182.6	.308			
122	9.39	33.858	3.39	-	-	-	184.2	150	8.88	33.98	2.78	26.36	167.4	.353			
142	9.02	33.942	2.98	-	-	-	172.4	200	8.16	34.07	2.29	26.54	150.2	.434			
170	8.58	34.042	2.46	-	-	-	158.4	250	7.90	34.11	1.83	26.61	143.6	.509			
199	8.17	34.072	2.30	-	-	-	150.2	300	7.61	34.18	1.25	26.71	134.3	.581			
228	8.00	34.081	2.12	-	-	-	147.1	400	6.87	34.29	.52	26.90	116.3	.712			
266	7.81	34.135	1.63	-	-	-	140.5	500	6.33	34.34	.31	27.01	105.7	.829			
323	7.44	34.205	1.06	-	-	-	130.2										
396	6.88	34.280	.56	-	-	-	117.1										
469	6.54	34.321	.38	-	-	-	109.7										
546	5.96	34.352	.29	-	-	-	100.3										

97.40								CCOFI CRUISE 6507								97.40	
BLACK DOUGLAS, JUNE 23 1965, 0605 GMT, 31 57N 117 51W, SOUNDING 600 FM, WIND 320 FORCE 2, WEATHER CLOUDY, SEA SLIGHT, WIRE ANGLE 07.																	
0	14.40	33.482	5.98	-	-	-	301.3	0	14.40	33.48	5.98	24.95	301.4	0			
10	14.32	33.483	6.02	-	-	-	299.6	10	14.32	33.48	6.02	24.97	299.8	.030			
29	14.10	33.506	6.01	-	-	-	293.5	20	14.13	33.50	6.01	25.02	294.6	.060			
39	13.78	33.589	5.93	-	-	-	281.1	30	14.09	33.51	6.00	25.04	293.1	.089			
49	12.64	33.550	5.46	-	-	-	262.3	50	12.60	33.55	5.43	25.37	261.5	.145			
63	11.68	33.564	5.08	-	-	-	243.9	75	11.12	33.58	4.66	25.67	233.0	.207			
78	10.99	33.588	4.58	-	-	-	230.2	100	9.98	33.69	3.92	25.95	206.0	.262			
97	10.06	33.669	4.02	-	-	-	208.8	125	9.47	33.87	3.19	26.18	184.6	.312			
120	9.54	33.840	3.33	-	-	-	187.9	150	9.17	33.96	2.90	26.30	173.3	.357			
141	9.26	33.934	2.94	-	-	-	176.6	200	8.24	34.04	2.57	26.51	153.6	.441			
169	8.92	33.984	2.84	-	-	-	167.7	250	7.80	34.13	1.72	26.64	140.7	.516			
198	8.27	34.033	2.60	-	-	-	154.5	300	7.18	34.16	1.29	26.75	130.0	.586			
227	8.00	34.073	2.21	-	-	-	147.7	400	6.59	34.26	.60	26.91	114.9	.714			
265	7.64	34.157	1.47	-	-	-	136.5	500	5.99	34.30	.37	27.02	104.5	.830			
321	6.92	34.161	1.19	-	-	-	126.5										
393	6.63	34.248	.65	-	-	-	116.3										
465	6.17	34.282	.44	-	-	-	108.1										
542	5.82	34.338	.31	-	-	-	99.7										

97.50								CCOFI CRUISE 6507								97.50	
BLACK DOUGLAS, JUNE 22 1965, 2355 GMT, 31 35N 118 31.5W, SOUNDING 1300 FM, WIND 320 FORCE 2, WEATHER CLOUDY, SEA SLIGHT, WIRE ANGLE 05.																	
0	16.12	33.391	5.81	-	-	-	343.9	0	16.12	33.39	5.81	24.50	343.9	0			
10	15.34	33.391	5.89	-	-	-	327.3	10	15.34	33.39	5.89	24.68	327.3	.034			
28	15.18	33.423	5.91	-	-	-	321.6	20	15.27	33.41	5.90	24.71	324.4	.066			
57	14.43	33.513	5.96	-	-	-	299.6	30	15.16	33.43	5.91	24.75	320.7	.099			
67	14.12	33.517	5.91	-	-	-	293.1	50	14.85	33.51	5.94	24.88	308.4	.162			
82	13.12	33.460	5.63	-	-	-	277.9	75	13.50	33.49	5.74	25.14	283.0	.236			
96	12.62	33.561	5.15	-	-	-	261.1	100	12.10	33.57	4.72	25.48	250.9	.303			
110	11.64	33.609	4.38	-	-	-	239.9	125	10.70	33.66	4.10	25.81	220.0	.363			
134	10.36	33.686	3.95	-	-	-	212.4	150	9.94	33.76	3.55	26.01	200.2	.416			
154	9.83	33.783	3.46	-	-	-	196.7	200	8.77	33.99	2.74	26.38	165.1	.509			
182	9.14	33.929	2.98	-	-	-	175.1	250	7.99	34.05	2.26	26.55	149.3	.590			
212	8.52	34.009	2.60	-	-	-	160.0	300	7.40	34.10	1.76	26.68	137.4	.664			
241	8.10	34.036	2.35	-	-	-	151.9	400	6.47	34.19	.82	26.87	118.6	.797			
288	7.54	34.092	1.89	-	-	-	139.9	500	6.00	34.31	.37	27.03	103.9	.914			
340	6.98	34.130	1.36	-	-	-	129.6	600	5.48	34.35	-	27.13	94.8	1.021			
422	6.34	34.214	.66	-	-	-	115.2										
504	5.98	34.312	.35	-	-	-	103.5										
587	5.56	34.343	.26	-	-	-	96.2										

OBSERVED LEVELS OF DEPTH

STANDARD LEVELS OF DEPTH

INPUT

COMPUTED

INPUT

COMPUTED

Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
97.60							CCOFI CRUISE 6507	97.60						
BLACK DOUGLAS, JUNE 22 1965, 1802 GMT, 31 20N 119 11W, SOUNDING 2000 FM, WIND CALM, WEATHER OVERCAST, SEA SMOOTH, WIRE ANGLE 03.														
0	16.16	33.517	5.60	-	-	-	335.5	0	16.16	33.52	5.69	24.59	335.3	0
10	15.94	33.504	5.71	-	-	-	331.7	10	15.94	33.50	5.71	24.63	332.0	.033
29	16.08	33.580	5.73	-	-	-	329.2	20	16.07	33.57	5.72	24.65	329.7	.067
53	15.42	33.527	5.89	-	-	-	319.0	30	16.08	33.58	5.74	24.66	329.2	.100
63	14.52	33.527	5.81	-	-	-	300.4	50	15.80	33.56	5.82	24.71	324.6	.165
72	13.90	33.517	5.67	-	-	-	288.8	75	13.50	33.52	5.49	25.17	280.8	.241
86	12.30	33.542	4.85	-	-	-	256.6	100	11.97	33.56	4.71	25.50	249.3	.308
101	11.92	33.569	4.69	-	-	-	247.8	125	10.84	33.66	4.10	25.78	222.3	.368
125	10.84	33.659	4.10	-	-	-	222.4	150	9.78	33.78	3.58	26.06	196.1	.421
145	9.88	33.758	3.66	-	-	-	199.3	200	8.90	34.01	2.73	26.38	165.5	.513
168	9.45	33.870	3.22	-	-	-	184.3	250	8.20	34.08	2.15	26.54	150.0	.594
198	8.94	34.008	2.75	-	-	-	166.3	300	7.66	34.12	1.76	26.65	139.5	.668
227	8.50	34.041	2.49	-	-	-	157.3	400	6.74	34.19	.87	26.84	122.1	.805
266	8.00	34.098	1.98	-	-	-	145.9	500	5.99	34.27	.45	27.00	106.8	.925
324	7.44	34.127	1.60	-	-	-	136.0							
396	6.78	34.182	.91	-	-	-	123.2							
468	6.17	34.243	.58	-	-	-	111.0							
547	5.82	34.315	.29	-	-	-	101.4							

97.70 CCOFI CRUISE 6507 97.70

BLACK DOUGLAS, JUNE 22 1965, 1145 GMT, 30 58N 119 51.5W, SOUNDING 1900 FM, WIND 320 FORCE 2, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 00.

0	16.20	33.557	5.65	-	-	-	333.5	0	16.20	33.56	5.65	24.62	333.3	0
10	16.20	33.559	5.69	-	-	-	333.3	10	16.20	33.56	5.69	24.62	333.3	.033
29	16.19	33.558	5.69	-	-	-	333.2	20	16.20	33.56	5.69	24.62	333.3	.067
53	15.97	33.542	5.74	-	-	-	329.6	30	16.19	33.56	5.69	24.62	333.0	.100
63	14.28	33.344	-	-	-	-	309.0	50	16.10	33.55	5.71	24.63	331.8	.167
73	13.42	33.301	6.04	-	-	-	295.3	75	13.20	33.34	5.95	25.09	288.2	.245
87	12.80	33.469	5.42	-	-	-	271.2	100	12.18	33.51	4.93	25.42	256.8	.313
102	12.06	33.525	4.84	-	-	-	253.5	125	10.84	33.72	3.84	25.83	217.9	.373
125	10.84	33.715	3.84	-	-	-	218.3	150	9.61	33.85	3.43	26.14	188.3	.425
146	9.70	33.839	3.51	-	-	-	190.5	200	8.74	34.02	2.72	26.41	162.4	.514
169	9.24	33.917	3.09	-	-	-	177.6	250	8.13	34.09	1.92	26.56	148.3	.594
199	8.76	34.013	2.75	-	-	-	163.2	300	7.47	34.15	1.52	26.70	134.7	.667
228	8.38	34.073	2.23	-	-	-	153.2	400	6.70	34.22	.70	26.87	119.3	.759
267	7.92	34.105	1.73	-	-	-	144.2	500	5.97	34.29	.39	27.02	105.0	.918
324	7.19	34.176	1.39	-	-	-	129.0							
398	6.72	34.218	.74	-	-	-	119.7							
471	6.12	34.269	.45	-	-	-	108.4							
548	5.76	34.301	.34	-	-	-	101.7							

97.80 CCOFI CRUISE 6507 97.80

BLACK DOUGLAS, JUNE 22 1965, 0600 GMT, 30 36N 120 32.5W, SOUNDING 2100 FM, WIND 270 FORCE 2, WEATHER MISSING, SEA MODERATE, WIRE ANGLE 18.

0	16.20	33.446	5.67	-	-	-	341.6	0	16.20	33.45	5.67	24.53	341.3	0
9	16.22	33.436	5.72	-	-	-	342.7	10	16.22	33.44	5.72	24.52	342.5	.034
27	15.89	33.408	5.76	-	-	-	337.7	20	16.00	33.41	5.74	24.55	339.9	.068
37	15.87	33.411	5.80	-	-	-	337.0	30	15.89	33.41	5.76	24.57	337.5	.102
47	15.70	33.419	5.80	-	-	-	332.8	50	15.59	33.42	5.82	24.65	330.4	.169
60	14.99	33.427	5.97	-	-	-	317.4	75	13.80	33.44	5.85	25.04	292.5	.248
74	13.88	33.440	5.87	-	-	-	294.0	100	12.30	33.52	5.15	25.40	258.2	.317
91	13.08	33.504	5.53	-	-	-	273.9	125	11.00	33.59	4.47	25.70	230.2	.379
113	11.52	33.538	4.76	-	-	-	243.0	150	9.98	33.71	3.94	25.97	204.5	.434
132	10.74	33.620	4.32	-	-	-	223.6	200	8.88	33.92	3.95	26.31	171.9	.530
158	9.68	33.744	3.85	-	-	-	197.2	250	8.25	34.01	2.91	26.48	156.0	.614
183	9.10	33.863	3.93	-	-	-	179.4	300	7.39	34.05	2.32	26.64	141.0	.690
208	8.79	34.025N	3.96	-	-	-	162.8	400	6.73	34.19	.82	26.84	121.9	.827
242	8.38	34.004	3.03	-	-	-	158.3	500	6.05	34.27	.40	26.99	107.5	.948
292	7.48	34.034	2.49	-	-	-	143.4							
359	7.04	34.157	1.16	-	-	-	128.4							
427	6.49	34.214	.68	-	-	-	117.1							
505	6.02	34.277	.38	-	-	-	106.6							

N) POSSIBLE EVAPORATION, VALUE DOES NOT FALL ON PROPERTY CURVE.

OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED				INPUT				COMPUTED			
Z	T	S	OXY	PHD	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	CD	
97.90								97.90							
CCOFI CRUISE 6507															
BLACK DOUGLAS, JUNE 21 1965, 2338 GMT, 30 15.5N 121 10.5W, SOUNDING 1850 FM, WIND 320 FORCE 4, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 02.															
0	16.48	33.487	5.66	-	-	-	344.7	0	16.48	33.49	5.66	24.50	344.5	0	
10	16.44	33.485	5.69	-	-	-	344.0	10	16.44	33.48	5.69	24.50	344.3	.034	
29	16.16	33.460	5.72	-	-	-	339.7	20	16.40	33.48	5.70	24.51	343.5	.069	
39	16.02	33.448	5.78	-	-	-	337.5	30	16.15	33.46	5.72	24.55	339.5	.103	
49	15.42	33.390	5.84	-	-	-	329.0	50	15.42	33.39	5.84	24.66	329.0	.170	
63	14.78	33.466	5.94	-	-	-	310.2	75	13.25	33.44	5.72	25.16	281.8	.247	
78	13.00	33.437	5.63	-	-	-	277.3	100	11.60	33.54	4.60	25.55	244.3	.313	
97	11.69	33.530	4.62	-	-	-	246.6	125	9.97	33.71	4.10	25.97	204.3	.370	
117	10.34	33.670	4.30	-	-	-	213.3	150	9.42	33.85	3.52	26.17	185.3	.419	
136	9.62	33.768	3.83	-	-	-	194.5	200	8.69	33.99	3.50	26.40	163.9	.508	
170	9.17	33.922	3.25	-	-	-	176.1	250	7.89	34.05	2.44	26.57	147.9	.588	
199	8.70	33.982	3.56	-	-	-	164.6	300	7.21	34.09	1.73	26.69	135.6	.661	
228	8.19	34.028	2.80	-	-	-	153.8	400	6.28	34.16	.91	26.88	118.5	.793	
266	7.67	34.059	2.20	-	-	-	144.2	500	5.70	34.24	.45	27.01	105.6	.911	
324	6.91	34.105	1.45	-	-	-	130.6								
395	6.31	34.158	.93	-	-	-	119.0								
467	5.88	34.217	.56	-	-	-	109.4								
546	5.47	34.278	.39	-	-	-	100.1								

100.30								100.30							
CCOFI CRUISE 6507															
ALEXANDER AGASSIZ, JULY 27 1965, 0605 0542 GCT, 31 40.5N 116 47W, SOUNDING 235 FM, WIND 340 FORCE 3, WEATHER CLEAR, SEA MISSING, WIRE ANGLE 05.															
0	15.40	33.693	7.10	0.63	16	0.01	306.4	0	15.25	33.69	-	24.93	303.5	0	
10	14.88	33.709	6.78	0.64	19	0.02	294.4	10	14.65	33.66	-	25.04	293.3	.030	
15	12.82A	33.720	-	2.14U	20	0.15	253.1	20	12.12	33.72	-	25.59	240.3	.057	
100	10.24	34.031	2.58	1.00U	28	0.07	185.0	30	11.11	33.77	-	25.82	218.8	.080	
								50	10.63	33.92	-	26.02	199.6	.122	
								75	10.44	33.99	-	26.11	191.3	.171	
								100	10.35	34.02	-	26.15	187.6	.219	
								125	10.25	34.11	-	26.23	179.3	.265	
								150	10.22	34.14	-	26.26	176.6	.310	
								200	9.83	34.22	-	26.39	164.4	.397	
								250	9.35	34.30	-	26.53	150.9	.478	
								300	9.22	34.35	-	26.59	145.2	.555	
								400	8.40	34.37	-	26.74	131.4	.700	

100.35								100.35							
CCOFI CRUISE 6507															
ALEXANDER AGASSIZ, JULY 27 1965, 0920 0843 GCT, 31 30.5N 117 07W, SOUNDING 583 FM, WIND 320 FORCE 5, WEATHER MISSING, SEA MODERATE, WIRE ANGLE 15.															
0	17.77	33.668	6.06	0.22	3	0.00	360.6	0	17.81	33.70	-	24.34	359.2	0	
10	17.78	33.666	6.11	0.21	3	0.00	360.9	10	17.82	33.70	-	24.34	359.4	.036	
19	17.73	33.668	6.12	0.24	2	0.00	359.6	20	17.70	33.69	-	24.36	357.3	.072	
96	10.92	33.815	3.26	1.77	20	0.01	212.2	30	15.13	33.59	-	24.88	308.3	.105	
								50	12.44	33.51	-	25.37	261.5	.162	
								75	11.50	33.75	-	25.73	227.0	.224	
								100	10.89	33.88	-	25.94	206.9	.279	
								125	10.42	34.02	-	26.14	188.7	.329	
								150	10.14	34.12	-	26.26	176.7	.375	
								200	9.86	34.24	-	26.40	163.4	.462	
								250	9.46	34.32	-	26.53	151.1	.543	
								300	9.12	34.30	-	26.57	147.3	.620	
								400	8.33	34.34	-	26.73	132.6	.767	
								500	7.33	34.35	-	26.88	117.9	.899	
								600	6.58	34.38	-	27.01	105.8	1.020	

100.40								100.40							
CCOFI CRUISE 6507															
ALEXANDER AGASSIZ, JULY 27 1965, 1205 1140 GCT, 31 21N 117 27W, SOUNDING 946 FM, WIND 340 FORCE 5, WEATHER PARTLY CLOUDY, SEA ROUGH, WIRE ANGLE 03.															
1	17.24	33.573	5.72	0.38	2	0.00	355.4	0	17.28	33.61	-	24.40	353.6	0	
11	17.25	33.571	5.75	0.32	2	0.00	355.7	10	17.29	33.61	-	24.40	353.8	.035	
36	16.90	33.556	5.81	0.36	2	0.00	349.0	20	17.29	33.61	-	24.40	353.8	.071	
101	10.94	33.650	4.67	1.25	13	0.01	224.8	30	17.28	33.61	-	24.40	353.6	.106	
								50	15.38	33.49	-	24.75	320.9	.174	
								75	13.08	33.48	-	25.22	275.7	.249	
								100	11.37	33.63	-	25.66	233.6	.313	
								125	10.18	33.76	-	25.97	204.0	.368	
								150	9.57	33.85	-	26.15	187.6	.418	
								200	8.90	34.06	-	26.42	161.8	.507	
								250	7.93	34.08	-	26.58	146.2	.586	
								300	7.42	34.13	-	26.70	135.5	.659	
								400	7.25	34.31	-	26.86	119.8	.792	
								500	6.61	34.35	-	26.98	108.5	.913	
								600	6.05	34.38	-	27.08	99.3	1.024	

A) ALTERNATE VALUE, 11.76.

OBSERVED LEVELS OF DEPTH

STANDARD LEVELS OF DEPTH

INPUT								COMPUTED															
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	CD									
100.50								CCOFI CRUISE 6507								100.50							
ALEXANDER AGASSIZ, JULY 27 1965, 1740 1657 GCT, 31 02N 118 09W, SOUNDING 820 FM, WIND 330 FORCE 5, WEATHER PARTLY CLOUDY, SEA MODERATE, WIRE ANGLE 19.																							
0	17.16	33.619	6.38	0.20	2	0.00	350.2	0	17.17	33.64	-	24.45	348.9	0									
10	17.16	33.623	7.14	0.26	2	0.00	349.9	10	17.16	33.64	-	24.45	348.7	.035									
33	14.78	33.582	5.58	0.49	6	0.00	301.7	20	17.08	33.64	-	24.47	346.9	.070									
95	10.10	33.791	3.62	2.00	21	-	200.4	30	14.83	33.59	-	24.94	302.1	.102									
								50	12.70	33.59	-	25.38	260.5	.159									
								75	11.07	33.68	-	25.76	224.7	.220									
								100	10.18	33.85	-	26.04	197.4	.273									
								125	9.52	33.90	-	26.19	183.2	.321									
								150	9.09	33.97	-	26.32	171.3	.366									
								200	8.31	34.04	-	26.49	154.6	.449									
								250	7.92	34.15	-	26.64	140.9	.525									
								300	7.48	34.21	-	26.75	130.3	.595									
								400	6.56	34.26	-	26.92	114.5	.723									
								500	5.97	34.33	-	27.05	102.0	.837									
								600	5.46	34.38	-	27.15	92.3	.941									

100.60

CCOFI CRUISE 6507

100.60

ALEXANDER AGASSIZ, JULY 27 1965, 2337 2250 GCT, 30 40N 118 48.5W, SOUNDING 1630 FM, WIND 330 FORCE 6, WEATHER PARTLY CLOUDY, SEA ROUGH, WIRE ANGLE 35.

0	16.84	33.450	6.01	0.37	3	0.02	355.4	0	17.02	33.48	-	24.36	357.2	0
8	16.84	33.448	6.00	0.35	3	0.00	355.5	10	16.94	33.48	-	24.38	355.4	.036
29	16.01	33.397	6.12	0.38	3	0.00	341.1	20	16.33	33.47	-	24.52	342.7	.071
37	15.54	33.350	6.40	0.42	2	0.01	334.5	30	15.98	33.45	-	24.58	336.5	.105
50	14.86	33.384	6.36	0.43	2	0.01	317.8	50	15.22	33.37	-	24.69	326.3	.171
62	14.46	33.361	6.47	0.52	3	0.05	311.4	75	13.92	33.34	-	24.94	302.2	.250
83	13.76	33.326	6.29	0.62	3	0.11	300.0	100	12.83	33.43	-	25.23	274.6	.323
99	13.32	33.398	6.09	0.66	4	0.42	286.3	125	11.97	33.59	-	25.52	247.1	.389
115	12.52	33.401	5.75	0.95	7	0.29	271.0	150	10.49	33.75	-	25.91	209.8	.447
139	11.50	33.588	4.69	1.25	12	0.06	239.0	200	9.28	33.96	-	26.28	175.0	.545
162	10.18	33.746	4.03	-	20	-	205.1	250	8.49	34.10	-	26.51	152.8	.629
193	9.43	33.877	3.44	1.72	24	-	183.5	300	7.85	34.16	-	26.66	139.2	.704
216	8.98	33.998	2.97	1.94	30	-	167.6	400	6.97	34.23	-	26.84	122.0	.840
255	8.25	34.098	2.31	2.38	40	-	149.4	500	6.41	34.30	-	26.97	109.7	.963
307	7.64	34.131	1.84	2.67	46	-	138.4	600	5.72	34.35	-	27.10	97.6	1.073
392	6.85	34.211	1.06	3.03	59	-	121.9							
473	6.44	34.287	.89	3.09	67	-	111.0							
546	5.88	34.294	.57	3.09	75	-	103.7							

OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH							
INPUT								COMPUTED							
Z	T	S	QXY	PHO	SIL	NIT	D*T	Z	T	S	CXY	SIG*T	D*T	DD	
100.70								100.70							
CCOFI CRUISE 6507															
ALEXANDER AGASSIZ, JULY 28 1965, 0649 0921 0727 GCT, 30 21.5N 119 28W, SOUNDING 2043 FM, WIND 340 FORCE 6, WEATHER CLEAR, SEA VERY ROUGH, WIRE ANGLE 32 32.															
0	16.83	33.465	5.95	0.38	4	0.00	354.0	0	16.92	33.50	-	24.40	353.5	0	
8	16.85	33.468	5.97	0.37	3	0.00	354.3	10	16.92	33.50	-	24.40	353.5	.035	
30	15.92	33.439	6.11	0.35	2	0.00	336.1	20	16.70	33.49	-	24.45	349.3	.071	
38	15.42	33.388	6.25	0.36	2	0.00	329.2	30	15.92	33.45	-	24.59	335.2	.105	
50	14.30	33.385	6.31	0.45	3	0.03	306.4	50	14.25	33.39	-	24.91	305.0	.169	
64	13.70	33.381	6.18	0.59	4	0.13	294.8	75	13.38	33.44	-	25.13	284.3	.243	
85	12.56	33.387	5.67	0.81	5	0.19	272.8	100	12.16	33.52	-	25.43	255.7	.311	
100	12.06	33.519	5.07	1.04	8	0.04	254.0	125	11.05	33.59	-	25.69	231.1	.373	
116	11.14	33.590	4.57	1.38	14	0.01	232.6	150	10.10	33.75	-	25.98	203.5	.428	
141	10.08	33.717	3.97	1.68	19	0.00	205.6	200	8.93	33.96	-	26.34	169.7	.523	
205	8.74	33.980	3.19	2.12	31	0.00	165.3	250	8.27	34.08	-	26.53	151.1	.605	
284	7.68	34.108	2.08	2.59	44	0.00	140.7	300	7.76	34.12	-	26.64	140.9	.680	
364	6.93	34.183	1.27	2.94	55	0.00	125.0	400	6.87	34.23	-	26.85	120.7	.817	
445	6.46	34.266	.81	3.13	65	0.00	112.8	500	6.23	34.29	-	26.98	108.2	.937	
527	5.88	34.291	.57	3.33	73	-	103.9	600	5.62	34.34	-	27.10	97.2	1.047	
614	5.41	34.344	.48	3.32	86	-	94.5	700	5.08	34.38	-	27.20	88.1	1.148	
708	5.04	34.382	.41	3.39	87	-	87.5	800	4.68	34.43	-	27.28	80.0	1.240	
797	4.70	34.429	.52	3.47	95	-	80.3	1000	4.04	34.48	-	27.39	69.7	1.407	
855A	4.48	34.443	.51	-	-	-	76.9	1200	3.50	34.52	-	27.48	61.5	1.557	
888	4.36	34.456	.64	3.39	101	-	74.7	1500	2.77	34.58	-	27.59	50.5	1.753	
981	4.10	34.474	.59	3.13	114	-	70.7	2000	2.04	34.63	-	27.69	40.9	2.027	
1035A	3.93	34.430U	.69	3.23	109	-	72.4	2500	1.78	34.65	-	27.73	37.5	2.269	
1261A	3.36	34.530	.97	3.23	122	-	59.5	3000	1.64	34.67	-	27.76	35.0	2.500	
1485A	2.80	34.572	1.44	3.23	135	-	51.4								
1711A	2.38	34.598	1.59	3.06	146	-	46.0								
1939A	2.08	34.620	2.00	3.01	150	-	42.0								
2165A	1.91	34.643	2.33	2.95	148	-	39.0								
2392A	1.82	34.648	2.49	2.88	146	-	37.9								
2577A	1.77	34.653	2.65	2.83	151	-	37.2								
2668A	1.73	34.660	2.67	2.85	150	-	36.4								
2760A	1.70	34.662	2.71	2.76	152	-	36.0								
2851A	1.68	34.662	2.81	2.86	152	-	35.9								
2944A	1.66	34.665	2.81	2.74	152	-	35.5								
3036A	1.64	34.666	2.85	2.78	153	-	35.3								
3129A	1.60	34.666	2.94	2.83	153	-	35.0								
3223A	1.61	34.666	2.98	2.78	154	-	35.1								
3315A	1.62	34.666	2.98	2.74	152	-	35.1								
3408A	1.60	34.668	2.99	2.74	152	-	34.9								
3502A	1.61	34.675	3.06	2.74	154	-	34.4								
3595A	1.60	-	-	-	-	-	-								

100.80								100.80							
CCOFI CRUISE 6507															
ALEXANDER AGASSIZ, JULY 28 1965, 1600 1528 GCT, 30 01.5N 120 07W, SOUNDING 2100 FM, WIND 330 FORCE 6, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 20.															
0	17.36	33.510	5.99	0.45	3	0.00	362.7	0	17.40	33.53	-	24.31	362.1	0	
10	17.37	33.507	5.69	0.39	2	0.00	363.1	10	17.40	33.53	-	24.31	362.1	.036	
28	17.35	33.506	5.71	0.43	3	0.00	362.7	20	17.40	33.54	-	24.32	361.4	.072	
94	13.60	33.387	5.94	0.61	4	0.00	292.5	30	17.40	33.54	-	24.32	361.4	.109	
								50	16.20	33.41	-	24.50	344.2	.179	
								75	15.72	33.52	-	24.69	325.9	.264	
								100	13.56	33.45	-	25.10	287.1	.341	
								125	12.94	33.77	-	25.47	251.7	.409	
								150	10.97	33.67	-	25.77	223.8	.469	
								200	9.35	34.02	-	26.32	171.6	.570	
								250	8.54	34.09	-	26.50	154.2	.653	
								300	7.88	34.15	-	26.65	140.3	.729	
								400	7.24	34.25	-	26.82	124.1	.867	
								500	6.39	34.32	-	26.99	107.9	.990	
								600	5.50	34.34	-	27.11	95.8	1.099	

100.90								100.90							
CCOFI CRUISE 6507															
ALEXANDER AGASSIZ, JULY 28 1965, 2113 2030 GCT, 29 40N 120 47W, SOUNDING 2085 FM, WIND 340 FORCE 6, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 18.															
1	17.94	33.550	5.84	-	-	-	373.1	0	17.95	33.54	-	24.19	374.0	0	
11	17.95	33.561	5.85	0.41	3	0.00	372.5	10	17.93	33.55	-	24.20	372.9	.037	
39	16.58	33.430	6.08	0.36	2	0.00	351.1	20	17.84	33.55	-	24.22	370.8	.075	
96	14.28	33.626	6.00	0.43	3	0.00	288.3	30	17.39	33.49	-	24.28	364.8	.111	
								50	15.77	33.32	-	24.53	341.5	.182	
								75	15.05	33.52	-	24.84	311.8	.264	
								100	13.70	33.54	-	25.14	283.2	.339	
								125	12.83	33.69	-	25.43	255.5	.407	
								150	11.25	33.69	-	25.73	227.1	.469	
								200	9.29	33.88	-	26.22	181.1	.572	
								250	8.38	34.02	-	26.47	157.1	.659	
								300	7.55	34.04	-	26.61	143.9	.737	
								400	6.40	34.11	-	26.82	123.7	.876	
								500	5.87	34.22	-	26.97	109.1	.998	
								600	5.43	34.30	-	27.09	98.0	1.108	

A) OVERLAPPING CASTS, VALUES FOR STANDARD DEPTHS GREATER THAN 600 METERS WERE DETERMINED FROM RECONCILED PROPERTY CURVES.

OBSERVED LEVELS OF DEPTH

STANDARD LEVELS OF DEPTH

INPUT								COMPUTED								
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	CXY	SIG*T	D*T	CD		
100.100								CCOFI CRUISE 6507								100.100
ALEXANDER AGASSIZ, JULY 29 1965, 0219 0150 GCT, 29 21.5N 121 27W, SOUNDING 2110 FM, WIND 350 FORCE 5, WEATHER CLEAR, SEA ROUGH, WIRE ANGLE 15.																
0	18.35	33.632	5.72	0.28	2	0.00	376.7	0	18.44	33.67	-	24.17	376.1	0		
10	18.38	33.624	5.68	0.35	2	0.00	378.0	10	18.45	33.68	-	24.17	375.6	.038		
49	17.24	33.566	5.85	0.38	2	0.00	355.9	20	18.46	33.68	-	24.17	375.8	.075		
97	14.22	33.592	5.72	0.54	3	0.07	289.6	30	18.39	33.79	-	24.27	366.2	.112		
								50	17.02	33.56	-	24.43	351.4	.184		
								75	15.63	33.55	-	24.74	321.8	.269		
								100	14.06	33.59	-	25.11	286.6	.346		
								125	12.62	33.66	-	25.45	253.8	.414		
								150	11.23	33.72	-	25.76	224.5	.475		
								200	9.30	33.95	-	26.27	176.0	.576		
								250	8.57	34.05	-	26.46	157.6	.662		
								300	7.61	34.07	-	26.62	142.5	.739		
								400	6.92	34.21	-	26.83	122.9	.878		
								500	6.27	34.30	-	26.99	107.9	.999		
								600	5.62	34.36	-	27.12	95.7	1.108		

100.110

CCOFI CRUISE 6507

100.110

ALEXANDER AGASSIZ, JULY 29 1965, 0744 0841 GCT, 29 00N 122 06W, SOUNDING 2240 FM, WIND 350 FORCE 5, WEATHER CLEAR, SEA ROUGH, WIRE ANGLE 40.

2407A	1.85	34.654	2.49	2.92	146	-	37.7	0	18.02	33.44	-	24.09	382.9	0
2498	1.82	34.655	2.50	2.94	147	-	37.4	10	18.02	33.44	-	24.09	382.9	.038
2633	1.76	34.660	2.61	2.95	147	-	36.6	20	16.80	33.32	-	24.29	364.0	.076
2770	1.71	34.662	2.75	2.95	147	-	36.1	30	16.62	33.35	-	24.36	357.8	.112
2906	1.67	34.667	2.82	2.91	152	-	35.4	50	15.76	33.29	-	24.51	343.5	.182
3041	1.61	34.668	2.91	2.89	150	-	34.9	75	14.00	33.16	-	24.79	316.9	.265
3179	1.58	34.680	3.00	2.86	150	-	33.8	100	13.57	33.50	-	25.14	283.6	.341
3318	1.58	34.675	3.00	2.85	148	-	34.2	125	12.58	33.74	-	25.52	247.2	.408
3411	1.56	34.675	3.08	2.81	148	-	34.0	150	11.17	33.71	-	25.76	224.2	.468
3504	1.55	34.677	3.15	2.81	146	-	33.8	200	9.12	33.92	-	26.27	175.5	.569
3598	1.54	34.677	3.15	2.77	148	-	33.8	250	8.43	34.02	-	26.46	157.8	.655
3691	1.53	34.681	3.17	2.77	148	-	33.4	300	7.62	34.11	-	26.65	139.7	.731
3786	1.54	34.690	3.26	2.81	146	-	32.8	400	6.82	34.21	-	26.84	121.6	.868
3880	1.55	34.685	3.29	2.77	148	-	33.2	500	6.04	34.30	-	27.02	105.1	.987
3976	1.56	34.685	2.77	2.54	157	-	33.3	600	5.55	34.36	-	27.12	94.9	1.094

100.120

CCOFI CRUISE 6507

100.120

ALEXANDER AGASSIZ, JULY 29 1965, 1340 1255 GCT, 28 37.5N 122 44.5W, SOUNDING 2260 FM, WIND 010 FORCE 6, WEATHER PARTLY CLOUDY, SEA ROUGH, WIRE ANGLE 17.8)

1	18.10	33.484	5.60	0.47	3	0.00	381.6	0	18.06	33.45	-	24.09	383.2	0
9	19.10	33.483	5.62	0.52	2	0.00	405.4	10	18.05	33.46	-	24.10	382.2	.038
31	17.00	33.424	5.62	0.59	2	0.00	360.8	20	17.30	33.43	-	24.26	367.1	.076
39	16.64	33.401	5.85	0.76	2	0.00	354.5	30	17.05	33.44	-	24.33	360.8	.112
51	16.35	33.498	6.03	0.45	2	0.00	341.1	50	16.39	33.50	-	24.53	341.8	.183
65	16.24	33.711	5.88	0.37	2	0.00	323.1	75	16.02	33.79	-	24.83	312.6	.265
87	15.78	33.813	5.81	0.39	2	0.00	305.7	100	15.20	33.82	-	25.04	293.0	.341
103	15.22	33.823	5.67	0.39	3	0.00	293.2	125	13.79	33.92	-	25.42	257.1	.411
120	14.25	33.926	5.56	0.58	5	0.15	265.8	150	11.63	33.79	-	25.74	226.4	.472
144	12.06	33.816	5.03	0.93	8	0.00	232.1	200	9.40	33.90	-	26.21	181.3	.576
168	10.46	33.738	4.54	1.35	14	0.00	210.2	250	8.59	34.02	-	26.44	160.2	.663
200	9.36	33.864	3.93	1.77	22	0.00	183.3	300	7.95	34.12	-	26.61	143.5	.742
222	8.92	33.996	3.07	2.05	29	-	166.8	400	7.09	34.26	-	26.84	121.4	.880
262	8.18	34.058	2.62	2.28	36	-	151.4	500	6.36	34.31	-	26.98	108.3	1.001
313	7.82	34.155	1.70	2.65	43	-	139.1	600	5.68	34.37	-	27.12	95.6	1.111
397	6.80	34.213	.90	2.98	58	-	121.1							
475	6.38	34.300	.49	3.20	66	-	109.3							
544	5.84	34.316	.41	3.27	74	-	101.5							

- A) THE SAMPLE BOTTLE CAST WAS LOWERED TO COLLECT DATA FROM THE DEEP LAYERS ONLY.
 B) AN ASSUMED WIRE ANGLE OF 30 DEGREES WAS USED IN DEPTH DETERMINATION FOR THIS STATION.

OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED				INPUT				COMPUTED			
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD	
105.140								105.140							
CCOFI CRUISE 6507															
ALEXANDER AGASSIZ, JULY 29 1965, 2335 2301 GCT, 27 09.5N 123 28W, SOUNDING 2265 FM, WIND 030 FORCE 5, WEATHER PARTLY CLOUDY, SEA ROUGH, WIRE ANGLE 12.															
0	19.26	33.922	5.69	0.29	2	0.02	377.4	0	19.32	33.92	-	24.14	379.0	0	
10	19.27	33.917	5.57	0.30	2	0.00	378.0	10	19.30	33.93	-	24.15	377.8	.038	
68	16.80	33.645	6.01	0.29	2	0.00	340.3	20	19.25	33.93	-	24.16	376.6	.076	
98	14.86	33.617	5.96	0.38	3	0.00	300.8	30	18.84	33.92	-	24.26	367.4	.113	
								50	18.55	33.87	-	24.29	364.1	.166	
								75	16.76	33.66	-	24.56	338.3	.275	
								100	14.88	33.64	-	24.97	299.5	.355	
								125	13.23	33.67	-	25.34	264.6	.426	
								150	12.05	33.69	-	25.58	241.2	.490	
								200	9.53	33.86	-	26.16	186.3	.599	
								250	8.55	34.00	-	26.43	161.1	.688	
								300	7.76	34.06	-	26.59	145.3	.767	
								400	6.65	34.21	-	26.87	119.4	.905	
								500	6.04	34.28	-	27.00	106.6	1.024	
								600	5.42	34.34	-	27.12	94.9	1.132	
110.35															
CCOFI CRUISE 6507															
ALEXANDER AGASSIZ, AUGUST 2 1965, 0650 0623 GCT, 29 46N 116 00.5W, SOUNDING 620 FM, WIND 350 FORCE 4, WEATHER FOG, SEA MODERATE, WIRE ANGLE 12.															
0	16.92	33.590	6.30	0.21	3	0.00	346.9	0	17.01	33.62	-	24.47	346.8	0	
10	16.84	33.588	6.26	0.20	4	0.00	345.3	10	16.30	33.58	-	24.61	334.0	.034	
49	13.60	33.490	5.51	0.47	5	0.28	284.9	20	15.74	33.59	-	24.74	321.2	.067	
98	11.06	33.686	4.46	0.95	13	0.02	224.1	30	15.48	33.58	-	24.79	316.4	.099	
								50	13.64	33.52	-	25.14	283.5	.159	
								75	12.04	33.58	-	25.50	249.1	.226	
								100	11.12	33.71	-	25.77	223.4	.286	
								125	10.31	33.86	-	26.03	198.7	.339	
								150	9.96	33.98	-	26.18	184.2	.387	
								200	10.20	34.26	-	26.36	167.4	.477	
								250	9.22	34.24	-	26.51	153.3	.560	
								300	8.54	34.25	-	26.62	142.3	.636	
								400	7.75	34.32	-	26.80	125.9	.776	
								500	7.05	34.34	-	26.91	114.9	.904	
								600	6.22	34.37	-	27.05	102.1	1.020	
110.40															
CCOFI CRUISE 6507															
ALEXANDER AGASSIZ, AUGUST 2 1965, 0346 0318 GCT, 29 36N 116 19.5W, SOUNDING 1353 FM, WIND 340 FORCE 4, WEATHER OVERCAST, SEA ROUGH, WIRE ANGLE 12.															
0	17.53	33.547	5.78	0.31	1	0.00	363.9	0	17.54	33.56	-	24.30	363.1	0	
10	17.54	33.550	5.83	0.31	2	0.00	363.9	10	17.53	33.57	-	24.31	362.2	.036	
29	17.39	33.531	5.78	0.34	1	0.00	361.8	20	17.44	33.56	-	24.33	360.9	.072	
59	14.72	33.394	6.06	0.38	2	0.00	314.2	30	17.42	33.56	-	24.33	360.4	.109	
69	14.94	33.666	5.88	0.43	3	0.01	298.8	50	15.23	33.45	-	24.75	320.6	.177	
79	13.98	33.600	5.63	0.64	4	0.14	284.3	75	14.87	33.72	-	25.03	293.4	.254	
98	12.90	33.641	5.10	0.84	7	0.06	260.4	100	12.77	33.68	-	25.44	255.1	.323	
								125	11.55	33.68	-	25.67	233.1	.385	
								150	10.40	33.84	-	26.00	201.7	.440	
								200	9.08	34.02	-	26.36	167.5	.534	
								250	8.29	34.09	-	26.54	150.6	.616	
								300	7.96	34.17	-	26.65	140.0	.691	
								400	7.20	34.29	-	26.85	120.6	.827	
								500	6.15	34.29	-	26.99	107.2	.947	
								600	5.80	34.37	-	27.10	97.0	1.057	
110.50															
CCOFI CRUISE 6507															
ALEXANDER AGASSIZ, AUGUST 1 1965, 2144 2111 GCT, 29 16N 116 59W, SOUNDING 1600 FM, WIND 340 FORCE 2, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 07.															
0	17.70	33.596	5.69	0.37	3	0.00	364.2	0	17.73	33.60	-	24.29	364.6	0	
10	17.62	33.592	5.70	0.35	4	0.00	362.6	10	17.65	33.60	-	24.31	362.7	.036	
55	15.70	33.627	6.01	0.39	3	0.00	317.6	20	17.62	33.60	-	24.31	362.1	.073	
99	12.14	33.750	3.93	1.48	13	0.04	238.4	30	17.62	33.60	-	24.31	362.1	.109	
								50	16.80	33.56	-	24.48	346.5	.180	
								75	14.69	33.66	-	25.03	294.1	.261	
								100	12.87	33.74	-	25.46	252.6	.329	
								125	11.62	33.86	-	25.80	221.0	.389	
								150	11.00	34.09	-	26.09	193.3	.442	
								200	11.26	34.51	-	26.37	166.8	.534	
								250	10.26	34.48	-	26.52	152.1	.616	
								300	9.33	34.43	-	26.64	140.9	.692	
								400	8.26	34.45	-	26.82	123.4	.831	
								500	6.97	34.37	-	26.95	111.6	.956	
								600	6.17	34.38	-	27.06	100.7	1.070	

OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED				INPUT				COMPUTED			
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD	
110.100								110.100							
CCOFI CRUISE 6507															
ALEXANDER AGASSIZ, JULY 31 1965, 1642 1614 GCT, 27 36.5N 120 16W, SOUNDING 2130 FM, WIND 020 FORCE 4, WEATHER CLOUDY, SEA MODERATE, WIRE ANGLE 05.															
0	18.97	33.870	5.56	0.28	2	0.00	374.2	0	18.99	33.88	-	24.19	373.9	0	
10	18.96	33.875	-	0.30	1	0.00	373.6	10	18.99	33.89	-	24.20	373.2	.037	
50	17.60	33.690	5.83	0.33	1	0.00	355.0	20	18.95	33.89	-	24.21	372.2	.075	
100	14.34	33.626	5.90	0.42	2	0.01	289.5	30	18.92	33.90	-	24.22	370.8	.112	
								50	17.50	33.68	-	24.40	353.5	.185	
								75	15.92	33.62	-	24.73	322.8	.270	
								100	13.80	33.65	-	25.21	277.1	.345	
								125	12.45	33.68	-	25.50	249.2	.412	
								150	11.00	33.73	-	25.81	219.9	.471	
								200	9.61	33.98	-	26.24	178.6	.573	
								250	8.98	34.14	-	26.47	157.1	.659	
								300	8.57	34.27	-	26.63	141.3	.736	
								400	7.50	34.30	-	26.82	123.9	.874	
								500	6.43	34.30	-	26.97	109.9	.958	
								600	5.88	34.37	-	27.09	98.0	1.110	
110.120								110.120							
CCOFI CRUISE 6507															
ALEXANDER AGASSIZ, JULY 31 1965, 0747 0711 GCT, 26 56N 121 33W, SOUNDING 2173 FM, WIND 030 FORCE 4, WEATHER PARTLY CLOUDY, SEA MODERATE, WIRE ANGLE 05.															
0	19.84	34.089	5.43	0.27	1	0.00	379.6	0	19.92	34.13	-	24.14	378.6	0	
10	19.84	34.089	5.45	0.29	2	0.00	379.6	10	19.92	34.13	-	24.14	378.6	.038	
35	19.64	34.076	5.47	0.27	2	0.00	375.6	20	19.78	34.12	-	24.17	375.8	.076	
100	15.62	33.713	5.89	0.30	3	0.00	309.6	30	19.78	34.12	-	24.17	375.8	.113	
								50	18.20	33.77	-	24.30	363.1	.167	
								75	16.89	33.75	-	24.60	334.6	.275	
								100	15.78	33.72	-	24.83	312.5	.357	
								125	14.08	33.75	-	25.22	275.3	.431	
								150	12.24	33.76	-	25.60	239.5	.496	
								200	9.67	33.86	-	26.14	188.5	.605	
								250	8.85	34.03	-	26.40	163.3	.695	
								300	8.25	34.14	-	26.58	146.3	.775	
								400	7.08	34.20	-	26.80	125.7	.917	
								500	6.39	34.28	-	26.96	110.9	1.042	
								600	5.73	34.36	-	27.10	97.0	1.153	
110.140								110.140							
CCOFI CRUISE 6507															
ALEXANDER AGASSIZ, JULY 30 1965, 1853 2058 1928 GCT, 26 17N 122 50W, SOUNDING 2160 FM, WIND 030 FORCE 4, WEATHER CLOUDY, SEA ROUGH, WIRE ANGLE 15 12.															
0	19.02	33.810	5.57	0.32	2	0.00	379.7	0	19.13	33.84	-	24.12	380.2	0	
10	18.95	33.808	5.56	0.32	2	0.00	378.2	10	19.03	33.84	-	24.15	377.8	.038	
34	18.02	33.855	5.75	0.32	2	0.00	352.8	20	18.99	33.84	-	24.16	376.8	.076	
44	17.94	33.952	5.56	0.32	2	0.00	343.8	30	18.93	33.91	-	24.23	370.3	.113	
59	17.66	33.957	5.73	0.33	2	0.00	337.0	50	17.93	33.98	-	24.53	341.6	.185	
74	17.28	33.922	5.84	0.34	2	0.00	330.9	75	17.42	33.98	-	24.65	329.8	.269	
98	17.08	34.091	5.77	0.32	2	0.00	314.0	100	17.15	34.15	-	24.85	311.3	.350	
127	15.47	34.062	5.75	0.42	4	0.15	280.9	125	15.26	34.00	-	25.16	281.1	.425	
167	12.42	33.876	4.91	0.90	8	0.00	234.2	150	13.33	33.91	-	25.50	248.9	.492	
220	9.48	33.848	4.13	1.54	19	0.00	186.4	200	10.07	33.79	-	26.02	200.0	.606	
292	8.11	34.056	2.97	2.27	37	0.00	150.6	250	8.64	34.01	-	26.42	161.6	.699	
365	7.14	34.139	1.58	2.74	49	0.00	131.1	300	8.08	34.09	-	26.57	147.6	.778	
437	6.45	34.203	.91	3.06	59	0.00	117.4	400	7.02	34.18	-	26.79	126.4	.921	
533	5.74	34.282	-	3.24	72	0.00	102.9	500	6.03	34.26	-	26.99	108.0	1.045	
630	5.24	34.354	.36	3.35	81	-	91.8	600	5.48	34.35	-	27.13	94.8	1.153	
632A	5.20	34.365	.52	3.30	81	-	90.5	700	5.00	34.39	-	27.21	86.4	1.251	
726	4.90	34.412	.43	3.37	88	-	83.7	800	4.58	34.45	-	27.31	77.4	1.341	
822	4.49	34.459	-	3.37	94	-	75.8	1000	3.94	34.50	-	27.42	67.2	1.503	
827A	4.46	34.463	.54	3.34	95	-	75.2	1200	3.47	34.55	-	27.50	59.0	1.647	
918	4.17	34.481	.57	3.38	101	-	70.9	1500	2.79	34.58	-	27.59	50.7	1.840	
1015	3.90	34.508	.79	3.37	106	-	66.2	2000	2.09	34.64	-	27.70	40.5	2.114	
1113	3.68	34.529	.84	3.14	115	-	62.5	2500	1.62	34.68	-	27.77	34.1	2.346	
1114A	3.70	34.545	.78	3.30	114	-	61.5	3000	1.78	34.66	-	27.74	36.7	2.573	
1402A	2.98	34.568	1.22	3.25	125	-	53.2								
1687A	2.48	34.615	1.61	3.14	134	-	45.5								
1974A	2.10	34.637	2.02	3.08	139	-	40.8								
2260A	1.93	34.654	2.31	3.04	143	-	38.3								
2496A	1.78	34.664	2.56	2.94	139	-	36.4								
2732A	1.67	34.664	2.75	2.90	141	-	35.6								
2828A	1.66	34.668	2.85	2.87	146	-	35.3								
2923A	1.64	34.677	2.86	2.87	145	-	34.5								
3017A	1.61	34.677	2.94	2.87	145	-	34.2								
3110A	1.58	34.680	2.96	2.81	145	-	33.8								
3205A	1.58	34.686	2.98	2.79	144	-	33.3								
3298A	1.57	34.677	3.06	2.79	145	-	34.0								
3393A	1.55	34.680	3.12	2.79	145	-	33.6								
3488A	1.55	34.683	3.12	2.74	144	-	33.4								
3581A	1.56	34.687	3.21	2.76	146	-	33.1								
3677A	1.56	34.684	2.78	2.58	149	-	33.4								

A) OVERLAPPING CASTS, VALUES FOR STANDARD DEPTHS GREATER THAN 600 METERS WERE DETERMINED FROM RECONCILED PROPERTY CURVES.

OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED				INPUT				COMPUTED			
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	CXY	SIG*T	D*T	DD	
110.160								110.160							
ALEXANDER AGASSIZ, JULY 30 1965, 0932 0853 GCT, 25 36N 124 06.5W, SOUNDING 2270 FM, WIND 030 FORCE 5, WEATHER MISSING, SEA VERY ROUGH, WIRE ANGLE 20.															
1	19.62	34.247	5.53	0.38	3	0.00	362.7	0	19.63	34.24	-	24.30	363.4	0	
10	19.63	34.238	5.51	0.39	4	0.00	363.6	10	19.63	34.25	-	24.31	362.7	.036	
34	19.54	34.367	5.59	0.36	3	0.03	352.0	20	19.63	34.25	-	24.31	362.7	.073	
43	19.36	34.390	5.65	0.36	3	0.01	345.9	30	19.53	34.38	-	24.43	350.8	.108	
57	19.16	34.392	5.64	0.38	2	0.00	340.9	50	19.32	34.43	-	24.52	342.0	.178	
71	18.74	34.422	5.75	0.41	2	0.03	328.6	75	18.64	34.47	-	24.73	322.7	.262	
95	18.22	34.451	5.69	0.36	2	0.02	314.1	100	17.98	34.47	-	24.89	307.1	.341	
115	17.94	34.541	5.58	0.28	3	0.02	301.0	125	17.76	34.60	-	25.04	292.5	.417	
134	17.62	34.581	5.52	0.50	3	0.02	290.7	150	15.82	34.34	-	25.30	268.1	.488	
162	15.24	34.270	5.14	0.55	5	0.03	260.9	200	10.70	33.85	-	25.95	205.9	.609	
190	11.85	33.907	4.84	1.08	10	0.01	221.6	250	9.06	34.00	-	26.35	168.7	.705	
228	9.73	33.902	4.38	1.61	18	0.00	186.3	300	8.06	34.06	-	26.55	149.5	.787	
256	9.00	33.980	3.87	1.77	24	0.01	169.2	400	7.23	34.22	-	26.79	126.2	.930	
302	8.00	34.051	3.03	2.17	37	0.01	149.4	500	6.57	34.33	-	26.97	109.4	1.055	
362	7.42	34.183	1.51	2.87	48	0.02	131.5	600	5.94	34.38	-	27.09	97.9	1.166	
456	6.68	34.294	.74	3.12	62	0.00	113.5								
542	6.08	34.352	.50	3.39	67	0.02	101.7								
615	5.72	34.390	.47	3.29	75	0.01	94.6								

113.30								113.30							
ALEXANDER AGASSIZ, AUGUST 2 1965, 1344 1332 GCT, 29 22N 115 18W, SOUNDING 36 FM, WIND 050 FORCE 1, WEATHER FOG, SEA SLIGHT, WIRE ANGLE 00.															
0	17.98	33.769	5.82	0.13	2	0.01	358.1	0	18.00	33.79	-	24.37	357.0	0	
10	14.00	33.778	5.15	0.81	12	0.32	271.6	10	13.98	33.78	-	25.27	271.1	.031	
20	12.24	33.811	3.47	1.53	18	0.61	235.7	20	12.43	33.82	-	25.61	238.5	.057	
50	10.88	33.995	1.48	2.65	32	0.15	198.3	30	11.66	33.83	-	25.76	223.9	.080	
								50	11.02	34.02	-	26.03	198.8	.123	

115.35								115.35							
ALEXANDER AGASSIZ, AUGUST 2 1965, 1722 1644 GCT, 28 54N 115 27W, SOUNDING 490 FM, WIND 340 FORCE 1, WEATHER FOG, SEA SLIGHT, WIRE ANGLE 03.															
0	16.68	33.706	6.36	0.17	3	0.02	333.1	0	16.66	33.69	-	24.61	333.9	0	
10	16.63	33.705	6.46	0.30	3	0.03	332.1	10	16.50	33.69	-	24.65	330.3	.033	
20	15.97	33.700	5.84	0.43	6	0.04	318.1	20	15.75	33.66	-	24.79	316.3	.066	
100	10.52	34.082	1.80	2.50	29	0.01	185.8	30	13.50	33.59	-	25.22	275.6	.095	
								50	11.94	33.68	-	25.60	240.0	.147	
								75	10.84	33.99	-	26.04	198.0	.202	
								100	10.62	34.09	-	26.15	186.9	.251	
								125	10.45	34.16	-	26.24	178.9	.297	
								150	10.42	34.27	-	26.33	170.3	.341	
								200	9.93	34.38	-	26.50	154.1	.424	
								250	9.88	34.50	-	26.60	144.4	.501	
								300	9.45	34.46	-	26.64	140.6	.575	
								400	8.33	34.39	-	26.77	128.9	.717	
								500	7.12	34.34	-	26.90	115.8	.847	
								600	6.36	34.36	-	27.02	104.6	.965	

119.33								119.33							
ALEXANDER AGASSIZ, AUGUST 2 1965, 2226 2211 GCT, 28 18.5N 114 53W, SOUNDING 60 FM, WIND 320 FORCE 4, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 14.															
0	19.27	33.834	5.76	0.23	2	0.00	384.1	0	19.43	33.86	-	24.06	386.1	0	
10	18.49	33.773	5.84	0.25	2	0.00	369.8	10	18.37	33.80	-	24.28	365.0	.038	
49	17.35	33.745	5.81	0.27	2	0.04	345.3	20	17.78	33.77	-	24.40	353.4	.074	
97	10.96	34.075	1.89	2.40	29	0.11	193.7	30	17.74	33.78	-	24.42	351.7	.109	
								50	17.36	33.79	-	24.52	342.3	.179	
								75	12.03	33.85	-	25.71	229.1	.250	
								100	11.02	34.12	-	26.11	191.4	.303	

OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH							
INPUT								COMPUTED							
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD	
120.45								120.45							
CCOFI CRUISE 6507															
ALEXANDER AGASSIZ, AUGUST 3 1965, 1345 1312 GCT, 27 43N 115 33W, SOUNDING 1290 FM, WIND 340 FORCE 4, WEATHER CLOUDY, SEA MODERATE, WIRE ANGLE 10.															
0	17.00	33.778	6.02	0.43	5	0.04	335.0	0	17.18	33.79	-	24.56	338.2	0	
10	16.83	33.776	6.08	0.40	4	0.01	331.4	10	16.66	33.80	-	24.69	325.8	.033	
49	13.48	33.726	4.50	1.10	9	0.42	265.3	20	16.13	33.77	-	24.79	316.4	.065	
99	10.84	33.952	3.05	1.85	20	0.02	200.8	30	15.03	33.76	-	25.03	293.8	.096	
								50	13.40	33.76	-	25.37	261.2	.152	
								75	12.42	33.88	-	25.66	234.0	.214	
								100	11.10	33.96	-	25.97	204.6	.269	
								125	10.66	34.01	-	26.09	193.5	.320	
								150	10.29	34.10	-	26.22	180.7	.367	
								200	10.23	34.36	-	26.43	160.5	.454	
								250	10.06	34.46	-	26.54	150.3	.534	
								300	9.48	34.44	-	26.62	142.5	.611	
								400	9.09	34.56	-	26.78	127.6	.753	
								500	7.38	34.37	-	26.89	117.1	.883	
								600	6.20	34.38	-	27.06	101.1	1.000	
120.50								120.50							
CCOFI CRUISE 6507															
ALEXANDER AGASSIZ, AUGUST 4 1965, 0150 0125 GCT, 27 33N 115 52W, SOUNDING 1950 FM, WIND 320 FORCE 2, WEATHER OVERCAST, SEA SLIGHT, WIRE ANGLE 10.															
0	19.12	33.855	7.93	0.24	1	0.01	378.9	0	19.13	33.85	-	24.13	379.5	0	
10	19.07	33.850	5.70	0.26	1	0.01	378.0	10	19.02	33.86	-	24.17	376.1	.038	
40	16.20	33.675	6.11	0.36	2	0.00	324.9	20	18.99	33.86	-	24.17	375.4	.075	
99	11.29	33.822	3.67	1.57	17	0.06	218.1	30	18.25	33.80	-	24.31	362.1	.112	
								50	15.58	33.67	-	24.84	311.9	.180	
								75	12.33	33.76	-	25.58	241.1	.250	
								100	11.48	33.83	-	25.80	220.8	.308	
								125	10.69	33.96	-	26.04	197.6	.361	
								150	10.16	34.09	-	26.23	179.3	.409	
								200	10.66	34.53	-	26.49	155.1	.494	
								250	10.30	34.61	-	26.62	143.1	.571	
								300	9.98	34.62	-	26.68	137.2	.644	
								400	8.05	34.43	-	26.84	121.9	.780	
								500	7.29	34.48	-	26.99	107.7	.903	
								600	6.38	34.45	-	27.09	98.1	1.014	
120.60								120.60							
CCOFI CRUISE 6507															
ALEXANDER AGASSIZ, AUGUST 4 1965, 0720 0643 GCT, 27 13N 116 30.5W, SOUNDING 1895 FM, WIND 320 FORCE 3, WEATHER CLOUDY, SEA MISSING, WIRE ANGLE 06.															
0	20.67	34.151	5.39	0.36	2	-	396.0	0	20.71	34.15	-	23.95	397.1	0	
10	20.66	34.135	5.52	0.41	2	-	396.9	10	20.67	34.16	-	23.96	395.3	.040	
30	18.63	33.718	5.68	0.45	1	-	377.1	20	20.08	34.01	-	24.01	391.3	.079	
40	17.20	33.544	6.01	0.43	1	-	356.6	30	18.15	33.62	-	24.20	372.9	.117	
55	16.38	33.570	6.10	0.35	1	-	336.5	50	16.38	33.51	-	24.54	340.8	.189	
70	14.38	33.519	6.26	0.41	2	-	298.2	75	13.58	33.50	-	25.14	283.8	.267	
95	12.38	33.675	4.53	1.18	10	-	248.3	100	12.00	33.73	-	25.62	237.4	.333	
115	11.62	33.826	2.74	1.69	16	-	223.5	125	11.35	33.92	-	25.89	211.9	.390	
135	10.86	33.993	2.72	1.95	22	-	198.1	150	10.67	34.06	-	26.12	189.9	.441	
155	10.57	34.052	2.62	2.06	24	-	188.8	200	9.88	34.25	-	26.41	162.9	.531	
185	10.32	34.202	1.98	2.20	27	-	173.6	250	9.48	34.36	-	26.56	148.5	.611	
219	9.58	34.231	1.91	2.39	32	-	159.6	300	9.62	34.49	-	26.64	141.0	.686	
249	9.35	34.325	1.32	2.58	35	-	149.0	400	8.18	34.43	-	26.82	123.8	.825	
299	9.46	34.470	.63	2.78	39	-	140.0	500	7.15	34.41	-	26.95	111.0	.950	
354	8.37	34.374	.69	2.95	45	-	130.7	600	6.43	34.43	-	27.07	100.2	1.064	
439	7.80	34.436	.40	3.16	52	-	117.9								
524	6.84	34.393	.41	3.28	61	-	108.2								
609	6.24	34.407	.32	3.24	64	-	99.6								
120.70								120.70							
CCOFI CRUISE 6507															
ALEXANDER AGASSIZ, AUGUST 4 1965, 1338 1305 GCT, 26 52N 117 10W, SOUNDING 2110 FM, WIND 320 FORCE 3, WEATHER PARTLY CLOUDY, SEA MODERATE, WIRE ANGLE 02.															
0	19.64	33.667	5.53	-	1	0.00	405.2	0	19.71	33.71	-	23.88	403.9	0	
10	19.10	33.655	5.64	-	1	0.00	392.9	10	19.02	33.69	-	24.04	388.5	.040	
50	15.80	33.512	6.10	-	1	0.00	328.2	20	18.70	33.81	-	24.21	372.1	.078	
99	11.92	33.640	4.68	-	10	0.03	242.6	30	17.20	33.55	-	24.38	356.1	.114	
								50	15.73	33.57	-	24.73	322.4	.182	
								75	14.10	33.69	-	25.17	280.1	.258	
								100	11.99	33.63	-	25.55	244.5	.324	
								125	10.66	33.76	-	25.89	211.9	.382	
								150	10.18	33.96	-	26.13	189.2	.433	
								200	10.17	34.34	-	26.43	161.0	.522	
								250	9.66	34.41	-	26.57	147.6	.602	
								300	9.01	34.43	-	26.69	136.0	.675	
								400	8.09	34.45	-	26.85	121.0	.810	
								500	7.05	34.44	-	26.99	107.4	.932	
								600	6.41	34.46	-	27.09	97.7	1.043	

OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH															
INPUT				COMPUTED				INPUT				COMPUTED											
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD									
120.80								CCOFI CRUISE 6507								120.80							
ALEXANDER AGASSIZ, AUGUST 4 1965, 1833 1805 GCT, 26 32.5N 117 48.5W, SOUNDING 2046 FM, WIND 320 FORCE 2, WEATHER OVERCAST, SEA MCDERATE, WIRE ANGLE 02.																							
0	19.42	33.710	5.62	0.30	0	0.00	396.7	0	19.46	33.74	-	23.96	395.5	0									
10	19.32	33.697	5.72	0.29	1	0.00	395.2	10	19.18	33.68	-	23.99	393.1	.039									
50	17.26	33.667	5.99	0.28	1	0.00	349.0	20	18.50	33.64	-	24.13	379.7	.078									
98	12.66	33.579	5.48	0.76	5	0.08	260.5	30	18.27	33.73	-	24.25	367.7	.116									
								50	17.30	33.69	-	24.46	348.2	.187									
								75	14.98	33.47	-	24.82	314.0	.271									
								100	12.71	33.58	-	25.37	261.4	.343									
								125	11.74	33.69	-	25.64	235.7	.406									
								150	10.56	33.79	-	25.93	208.0	.462									
								200	9.18	33.99	-	26.32	171.2	.559									
								250	8.74	34.15	-	26.51	152.7	.642									
								300	8.47	34.25	-	26.63	141.3	.718									
								400	7.80	34.37	-	26.83	122.8	.856									
								500	6.78	34.39	-	26.99	107.6	.978									
								600	6.03	34.39	-	27.09	98.3	1.089									
120.90																							
CCOFI CRUISE 6507																							
ALEXANDER AGASSIZ, AUGUST 4 1965, 2322 2255 GCT, 26 12.5N 118 27.5W, SOUNDING 2175 FM, WIND 360 FORCE 3, WEATHER OVERCAST, SEA MCDERATE, WIRE ANGLE 07.																							
0	19.69	33.766	5.49	0.38	1	0.00	399.3	0	19.74	33.77	-	23.91	400.2	0									
10	19.50	33.756	5.57	0.54	2	0.00	395.3	10	19.16	33.75	-	24.05	387.5	.039									
40	18.98	33.874	5.55	0.35	1	0.00	374.1	20	19.12	33.80	-	24.09	382.9	.078									
99	14.42	33.635	5.76	0.46	3	0.03	290.5	30	18.93	33.83	-	24.17	376.1	.116									
								50	17.67	33.69	-	24.37	356.7	.190									
								75	16.22	33.61	-	24.65	330.0	.276									
								100	14.53	33.65	-	25.05	291.6	.354									
								125	12.85	33.67	-	25.41	257.4	.424									
								150	11.10	33.69	-	25.76	224.5	.485									
								200	9.67	34.00	-	26.25	178.1	.587									
								250	9.13	34.26	-	26.54	150.4	.671									
								300	9.15	34.40	-	26.64	140.4	.747									
								400	8.01	34.42	-	26.84	122.1	.884									
								500	6.93	34.41	-	26.98	108.1	1.007									
								600	6.22	34.42	-	27.09	98.4	1.118									
120.100																							
CCOFI CRUISE 6507																							
ALEXANDER AGASSIZ, AUGUST 5 1965, 0409 0135 GCT, 25 52N 119 05.5W, SOUNDING 2200 FM, WIND 340 FORCE 3, WEATHER OVERCAST, SEA MISSING, WIRE ANGLE 08.																							
0	19.94	33.909	5.52	0.41	1	0.00	395.1	0	20.03	33.92	-	23.95	396.6	0									
10	19.92	33.906	5.57	0.46	2	0.00	394.8	10	20.03	33.91	-	23.94	397.3	.040									
45	19.08	33.911	5.52	0.52	2	0.00	373.9	20	19.57	33.91	-	24.06	385.9	.079									
99	14.91	33.610	5.88	0.61	3	0.00	302.3	30	19.18	33.91	-	24.16	376.4	.117									
								50	18.50	33.88	-	24.31	362.2	.191									
								75	16.21	33.58	-	24.63	332.0	.279									
								100	14.82	33.58	-	24.94	302.7	.358									
								125	13.33	33.67	-	25.32	266.5	.430									
								150	11.74	33.70	-	25.65	234.9	.494									
								200	9.57	33.95	-	26.22	180.2	.600									
								250	9.13	34.20	-	26.49	154.9	.685									
								300	8.69	34.30	-	26.64	140.9	.762									
								400	8.04	34.41	-	26.83	123.2	.900									
								500	7.12	34.42	-	26.97	109.9	1.024									
								600	6.11	34.42	-	27.10	97.0	1.136									
120.120																							
CCOFI CRUISE 6507																							
ALEXANDER AGASSIZ, AUGUST 5 1965, 1223 1142 GCT, 25 13N 120 22W, SOUNDING 2200 FM, WIND 340 FORCE 3, WEATHER OVERCAST, SEA MISSING, WIRE ANGLE 17.																							
0	20.36	34.057	5.49	0.27	1	0.00	394.9	0	20.42	34.07	-	23.96	395.5	0									
9	20.40	34.051	5.52	0.31	2	0.00	396.4	10	20.42	34.08	-	23.97	394.8	.040									
28	20.06	34.017	5.54	0.35	1	0.00	390.3	20	20.29	34.07	-	24.00	392.2	.079									
38	19.02	33.897	5.78	0.31	1	0.00	373.4	30	20.03	34.04	-	24.04	387.9	.118									
53	17.68	33.794	5.99	0.32	1	0.00	349.3	50	17.91	33.81	-	24.40	353.5	.192									
67	17.43	33.895	6.05	0.32	1	0.00	336.2	75	17.30	33.92	-	24.63	331.5	.279									
92	16.82	33.988	5.91	0.31	1	0.00	315.7	100	16.32	33.88	-	24.83	312.5	.360									
111	15.15	33.824	5.80	0.35	2	0.00	291.6	125	13.93	33.80	-	25.29	268.6	.433									
130	13.58	33.800	5.41	0.67	5	0.07	261.8	150	11.88	33.75	-	25.66	233.7	.497									
149	12.20	33.751	5.06	0.93	8	0.01	239.4	200	9.99	33.92	-	26.13	189.1	.604									
178	10.44	33.795	4.20	1.49	16	0.00	205.7	250	8.94	34.07	-	26.42	161.7	.694									
211	9.66	33.944	3.69	1.77	22	0.00	182.1	300	8.42	34.20	-	26.60	144.3	.773									
241	9.20	34.021	3.21	1.99	26	-	169.2	400	7.46	34.30	-	26.82	123.4	.913									
288	8.42	34.180	2.02	2.49	38	-	145.8	500	6.81	34.37	-	26.97	109.5	1.037									
342	8.05	34.268	1.26	2.84	44	-	133.9	600	6.02	34.40	-	27.10	97.4	1.148									
424	7.16	34.304	.82	3.08	51	-	119.0																
507	6.52	34.365	.52	3.25	59	-	106.2																
590	5.97	34.410	.48	3.31	71	-	96.1																

OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED				INPUT				COMPUTED			
Z	T	S	CXY	PHD	SIL	NIT	D*T	Z	T	S	CXY	SIG*T	D*T	DD	
123.42								123.42							
CCOFI CRUISE 6507								CCOFI CRUISE 6507							
ALEXANDER AGASSIZ, AUGUST 11 1965, 1839 1805 GCT, 27 14N 114 59W, SOUNDING 900 FM, WIND 250 FORCE 2, WEATHER PARTLY CLOUDY, SEA SLIGHT, WIRE ANGLE 00.															
0	20.95	33.808	5.51	0.75		2	0.00	428.0	0	22.03	33.83	-	23.34	454.7	0
10	19.20	33.755	5.81	0.32		3	0.00	388.1	10	20.81	33.83	-	23.68	422.8	.044
50	14.46	33.700	5.90	0.76		7	0.28	286.5	20	18.62	33.76	-	24.19	373.8	.084
100	12.04	34.180	1.23	2.62		32	0.03	204.9	30	17.18	33.68	-	24.48	346.2	.120
									50	14.54	33.57	-	24.99	297.7	.184
									75	12.71	33.97	-	25.67	232.7	.251
									100	12.14	34.18	-	25.95	206.8	.307
									125	12.17	34.31	-	26.04	197.7	.358
									150	12.49	34.51	-	26.13	188.9	.407
									200	12.34	34.56	-	26.20	182.5	.502
									250	11.96	34.64	-	26.34	169.6	.593
									300	11.31	34.67	-	26.48	155.9	.678
									400	9.60	34.49	-	26.64	140.7	.834
									500	8.34	34.50	-	26.85	120.9	.973
									600	7.28	34.47	-	26.98	108.3	1.097
127.40								127.40							
CCOFI CRUISE 6507								CCOFI CRUISE 6507							
ALEXANDER AGASSIZ, AUGUST 11 1965, 1344 1305 GCT, 26 43.5N 114 29W, SOUNDING 1585 FM, WIND 080 FORCE 2, WEATHER CLOUDY, SEA SLIGHT, WIRE ANGLE 03.															
0	21.56	33.959	7.01	0.09		4	0.02	432.9	0	21.64	34.00	-	23.58	432.1	0
10	21.38	33.973	7.15	0.11		4	0.01	427.2	10	20.96	33.99	-	23.76	415.1	.042
30	18.04	33.962	5.14	0.31		5	0.02	345.4	20	19.35	34.00	-	24.19	374.0	.082
40	15.82	33.976	3.84	1.12		9	0.17	294.7	30	17.15	34.00	-	24.73	322.2	.117
50	14.77	33.948	3.40	1.48		12	0.33	274.7	50	13.76	33.94	-	25.44	255.0	.175
66	12.97	33.884	3.40	1.52		15	0.27	243.9	75	11.94	33.85	-	25.73	227.4	.235
80	11.76	33.846	3.58	1.57		16	0.10	224.5	100	11.87	34.12	-	25.95	206.3	.290
101	11.76	34.118	2.14	2.15		23	0.06	204.5	125	11.84	34.35	-	26.13	188.8	.340
126	11.74	34.327	1.48	2.41		27	0.00	188.7	150	11.37	34.36	-	26.23	179.8	.387
146	11.45	34.362	1.44	2.47		28	0.00	181.0	200	10.38	34.38	-	26.42	161.5	.474
176	10.41	34.284	1.64	2.47		30	0.00	169.1	250	11.13	34.64	-	26.49	155.0	.556
205	10.36	34.387	1.31	2.59		33	0.00	160.6	300	10.53	34.64	-	26.60	144.8	.634
235	11.31	34.692	.30	2.91		36	-	154.3	400	8.83	34.47	-	26.75	130.3	.779
275	10.76	34.666	.31	2.94		38	-	146.7	500	7.69	34.49	-	26.94	112.4	.908
336	10.12	34.614	.36	2.98		39	-	139.9	600	6.55	34.44	-	27.06	101.0	1.023
410	8.59	34.450	.52	3.05		47	-	128.2							
486	7.82	34.485	.34	3.24		54	-	114.6							
566	6.92	34.453	.33	3.27		62	-	104.8							
130.30								130.30							
CCOFI CRUISE 6507								CCOFI CRUISE 6507							
ALEXANDER AGASSIZ, AUGUST 7 1965, 2340 2315 GCT, 26 29N 113 29W, SOUNDING 42 FM, WIND 320 FORCE 2, WEATHER PARTLY CLOUDY, SEA MODERATE, WIRE ANGLE 03.															
0	24.31	34.064	5.73	0.21		1	0.00	500.5	0	24.31	34.06	-	22.86	500.7	0
10	21.38	33.984	5.86	0.15		1	0.00	426.4	10	21.37	34.03	-	23.68	422.8	.046
50	14.94	34.245	2.20	2.19		17	1.34	256.5	20	17.40	33.84	-	24.55	339.6	.084
60	14.60	34.202	-	-		-	0.92	252.6	30	14.44	33.97	-	25.32	266.4	.115
70	13.98	34.096	2.54	1.95		14	0.30	247.9	50	15.08	34.27	-	25.41	257.6	.167
130.40								130.40							
CCOFI CRUISE 6507								CCOFI CRUISE 6507							
ALEXANDER AGASSIZ, AUGUST 7 1965, 1810 1736 GCT, 26 09N 114 07W, SOUNDING 1090 FM, WIND 360 FORCE 2, WEATHER PARTLY CLOUDY, SEA MODERATE, WIRE ANGLE 07.															
0	21.42	34.173	5.52	0.25		1	0.00	413.8	0	21.51	34.20	-	23.77	414.2	0
10	20.98	34.158	5.12	0.26		1	0.00	403.4	10	21.05	34.19	-	23.88	402.9	.041
25	20.76	34.262	5.35	0.27		0	0.00	390.3	20	20.90	34.19	-	23.93	399.1	.081
99	13.27	33.764	-	1.05		6	0.10	258.4	30	20.23	34.16	-	24.08	384.2	.120
									50	18.85	34.09	-	24.38	355.3	.194
									75	15.75	33.80	-	24.90	306.0	.278
									100	13.24	33.83	-	25.46	253.0	.348
									125	12.16	34.15	-	25.92	209.3	.407
									150	11.57	34.22	-	26.08	193.6	.458
									200	10.94	34.38	-	26.32	170.9	.551
									250	10.43	34.51	-	26.51	152.7	.634
									300	9.78	34.51	-	26.63	142.1	.711
									400	8.01	34.39	-	26.81	124.3	.851
									500	7.34	34.46	-	26.97	109.8	.975
									600	6.71	34.47	-	27.06	100.8	1.089

OBSERVED LEVELS OF DEPTH STANDARD LEVELS OF DEPTH

INPUT COMPUTED INPUT COMPUTED

Z	T	S	OXY	PHD	SIL	NIT	D* <i>T</i>	Z	T	S	OXY	SIG* <i>T</i>	D* <i>T</i>	DD
---	---	---	-----	-----	-----	-----	-------------	---	---	---	-----	---------------	-------------	----

130.50 CCOFI CRUISE 6507 130.50

ALEXANDER AGASSIZ, AUGUST 7 1965, 1229 1202 GCT, 25 49N 114 46W, SOUNDING 1855 FM, WIND 360 FORCE 2, WEATHER PARTLY CLOUDY, SEA MODERATE, WIRE ANGLE 10.

0	21.56	34.233	5.45	0.29	1	0.00	413.1	0	21.57	34.23	-	23.77	413.6	0
10	21.56	34.223	5.04	0.30	1	0.00	413.8	10	21.57	34.22	-	23.77	414.3	.041
35	20.34	34.211	5.38	0.30	1	0.00	383.3	20	20.18	34.10	-	24.05	387.3	.082
99	14.40	33.746	5.13	0.69	3	0.15	282.0	30	20.36	34.20	-	24.08	384.6	.120
								50	19.90	34.30	-	24.27	365.8	.196
								75	17.14	33.81	-	24.59	335.8	.284
								100	14.49	33.75	-	25.14	283.5	.362
								125	12.10	33.77	-	25.64	236.2	.427
								150	11.08	33.95	-	25.96	205.0	.483
								200	10.07	34.21	-	26.34	169.0	.579
								250	9.74	34.36	-	26.52	152.6	.662
								300	9.53	34.45	-	26.62	142.6	.738
								400	8.26	34.43	-	26.81	124.9	.879
								500	7.08	34.41	-	26.96	110.1	1.003
								600	6.34	34.43	-	27.08	99.1	1.116

130.60 CCOFI CRUISE 6507 130.60

ALEXANDER AGASSIZ, AUGUST 7 1965, 0630 0547 GCT, 25 29N 115 24W, SOUNDING 2032 FM, WIND 340 FORCE 3, WEATHER CLOUDY, SEA MISSING, WIRE ANGLE 12.

0	20.68	33.822	5.35	-	1	0.00	420.1	0	20.73	33.85	-	23.71	419.3	0
10	20.46	33.835	5.43	-	1	0.00	413.5	10	19.98	33.78	-	23.86	405.5	.041
29	18.74	33.786	5.68	-	1	0.00	374.8	20	19.29	33.86	-	24.10	382.7	.081
39	17.82	33.706	5.77	-	1	0.00	358.9	30	18.28	33.78	-	24.29	364.3	.118
53	17.28	33.764	5.90	-	1	0.00	342.4	50	17.25	33.75	-	24.52	342.7	.169
68	15.98	33.650	5.67	-	1	0.00	321.9	75	15.31	33.57	-	24.82	313.5	.272
93	14.21	33.644	5.45	-	3	0.19	285.6	100	13.15	33.67	-	25.35	263.0	.344
113	12.64	33.765	4.07	-	9	0.03	246.5	125	11.86	33.88	-	25.77	223.8	.406
133	11.48	33.850	3.55	-	15	0.00	219.3	150	10.71	33.98	-	26.05	196.5	.459
152	10.88	33.952	3.02	-	20	0.00	201.4	200	10.69	34.42	-	26.40	163.7	.551
182	10.59	34.184	2.01	-	27	0.00	179.4	250	10.21	34.50	-	26.55	149.8	.632
216	10.68	34.441	1.23	-	32	0.00	162.0	300	9.72	34.50	-	26.63	141.9	.708
245	10.30	34.472	.85	-	34	0.00	153.3	400	8.37	34.45	-	26.81	125.0	.848
294	9.78	34.489	.75	-	39	0.00	143.6	500	7.14	34.42	-	26.96	110.1	.973
348	9.00	34.441	.67	-	41	0.00	135.0	600	6.44	34.44	-	27.07	99.6	1.086
431	7.91	34.407	.43	-	52	0.00	121.6							
515	6.78	34.396	.44	-	58	0.00	107.2							
598	6.23	34.435	.37	-	72	0.01	97.4							

130.70 CCOFI CRUISE 6507 130.70

ALEXANDER AGASSIZ, AUGUST 7 1965, 0108 0034 GCT, 25 09N 116 01.5W, SOUNDING 2042 FM, WIND 340 FORCE 1, WEATHER CLOUDY, SEA SLIGHT, WIRE ANGLE 02.

0	21.22	34.008	5.34	0.31	0	0.00	420.5	0	21.26	34.04	-	23.71	419.2	0
10	20.76	34.017	5.42	0.28	0	0.00	408.0	10	20.73	34.06	-	23.87	404.1	.041
35	20.42	34.236	5.45	0.29	0	0.00	383.5	20	20.78	34.27	-	24.02	390.2	.081
100	15.38	33.773	5.74	0.38	1	0.00	300.2	30	20.62	34.29	-	24.08	384.6	.120
								50	19.26	34.08	-	24.27	366.0	.195
								75	18.02	33.91	-	24.45	348.7	.285
								100	15.92	33.75	-	24.82	313.3	.368
								125	13.27	33.76	-	25.40	258.7	.441
								150	11.52	33.83	-	25.79	221.5	.502
								200	9.97	34.17	-	26.33	170.3	.601
								250	9.87	34.38	-	26.51	153.2	.685
								300	9.34	34.48	-	26.68	137.4	.760
								400	8.29	34.46	-	26.83	123.1	.857
								500	7.42	34.45	-	26.95	111.6	1.022
								600	6.54	34.45	-	27.07	100.1	1.136

130.80 CCOFI CRUISE 6507 130.80

ALEXANDER AGASSIZ, AUGUST 6 1965, 2004 1935 GCT, 24 49N 116 39W, SOUNDING 2082 FM, WIND 360 FORCE 2, WEATHER PARTLY CLOUDY, SEA SLIGHT, WIRE ANGLE 05.

0	21.75	34.365	5.25	0.18	0	0.00	408.5	0	21.82	34.39	-	23.83	408.6	0
10	21.48	34.361	5.33	0.15	1	0.00	401.7	10	21.54	34.40	-	23.91	400.5	.040
50	20.44	34.329	5.46	0.17	0	0.00	377.2	20	21.43	34.40	-	23.94	397.6	.080
75	18.28	34.044	-	-	-	0.00	345.1	30	21.00	34.39	-	24.05	387.2	.120
90	17.74	34.035	-	-	-	0.00	333.2	50	20.70	34.37	-	24.12	380.9	.197
100	16.78	33.962	5.60	0.26	0	0.00	316.7	75	18.51	34.09	-	24.47	347.2	.288
								100	17.30	34.00	-	24.70	325.6	.373
								125	14.80	33.78	-	25.10	287.6	.451
								150	12.63	33.80	-	25.56	243.7	.518
								200	10.76	34.13	-	26.16	186.3	.628
								250	9.87	34.20	-	26.37	166.5	.718
								300	9.38	34.36	-	26.58	146.9	.799
								400	8.17	34.42	-	26.81	124.3	.941
								500	7.42	34.47	-	26.96	110.2	1.066
								600	6.54	34.47	-	27.09	98.6	1.179

OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH															
INPUT				COMPUTED				INPUT				COMPUTED											
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD									
130.90								CCOFI CRUISE 6507								130.90							
ALEXANDER AGASSIZ, AUGUST 6 1965, 1518 1451 GCT, 24 29N 117 18W, SOUNDING 2075 FM, WIND 360 FORCE 2, WEATHER PARTLY CLOUDY, SEA MODERATE, WIRE ANGLE 01.																							
0	21.87	34.332	5.17	0.24	1	0.00	414.1	0	21.94	34.34	-	23.75	415.4	0									
10	21.87	34.333	5.28	0.27	1	0.00	414.0	10	21.94	34.35	-	23.76	414.7	.042									
25	20.88	34.307	5.37	0.30	1	0.00	390.1	20	21.25	34.30	-	23.91	400.1	.082									
100	16.41	33.817	5.82	0.38	2	0.00	319.1	30	20.82	34.30	-	24.03	389.0	.122									
								50	19.18	34.04	-	24.26	366.9	.158									
								75	18.26	34.00	-	24.46	347.8	.288									
								100	16.46	33.81	-	24.75	320.7	.372									
								125	14.34	33.75	-	25.17	280.5	.448									
								150	12.86	33.96	-	25.64	236.3	.513									
								200	11.92	34.49	-	26.23	180.0	.619									
								250	10.97	34.55	-	26.45	158.8	.707									
								300	9.44	34.53	-	26.70	135.2	.783									
								400	8.44	34.47	-	26.81	124.5	.920									
								500	7.48	34.47	-	26.95	111.0	1.045									
								600	6.68	34.46	-	27.06	101.1	1.160									
130.100								CCOFI CRUISE 6507								130.100							
ALEXANDER AGASSIZ, AUGUST 6 1965, 1022 0944 GCT, 24 09N 117 55W, SOUNDING 2080 FM, WIND 360 FORCE 3, WEATHER OVERCAST, SEA MISSING, WIRE ANGLE 03.																							
0	22.12	34.247	5.20	0.30	1	0.00	426.9	0	22.15	34.27	-	23.64	426.0	0									
10	22.13	34.240	5.29	0.31	1	0.00	427.7	10	21.95	34.24	-	23.68	422.9	.042									
35	20.88	34.248	5.56	0.28	1	0.00	394.3	20	21.12	34.27	-	23.93	398.9	.084									
100	16.59	34.000	5.70	0.32	3	0.00	309.7	30	21.12	34.28	-	23.93	398.2	.124									
								50	19.33	34.09	-	24.26	366.9	.200									
								75	17.67	34.01	-	24.61	333.4	.288									
								100	16.45	33.95	-	24.86	310.3	.370									
								125	13.37	33.76	-	25.38	260.6	.442									
								150	11.73	33.78	-	25.71	228.9	.504									
								200	9.98	34.10	-	26.27	175.6	.607									
								250	9.46	34.26	-	26.48	155.5	.692									
								300	8.76	34.34	-	26.66	138.9	.768									
								400	7.83	34.39	-	26.84	121.8	.905									
								500	7.08	34.45	-	27.00	107.1	1.026									
								600	6.36	34.46	-	27.10	97.1	1.137									
130.120								CCOFI CRUISE 6507								130.120							
ALEXANDER AGASSIZ, AUGUST 6 1965, 0115 0035 GCT, 23 30N 119 10W, SOUNDING 2170 FM, WIND 360 FORCE 3, WEATHER CLOUDY, SEA MODERATE, WIRE ANGLE 15.																							
0	21.16	34.089	5.41	0.30	1	0.00	413.1	0	21.23	34.12	-	23.78	412.7	0									
10	21.16	34.081	5.49	0.32	1	0.00	413.7	10	21.20	34.12	-	23.79	411.9	.041									
29	20.36	34.080	5.65	0.30	0	0.00	393.3	20	21.06	34.11	-	23.82	409.0	.082									
39	20.10	34.084	5.67	0.29	0	0.00	386.4	30	20.45	34.12	-	23.99	392.6	.123									
53	18.82	33.962	5.83	0.29	1	0.00	363.9	50	19.43	34.04	-	24.20	373.0	.199									
68	17.76	33.838	6.08	0.30	1	0.00	348.0	75	17.62	33.88	-	24.53	341.7	.289									
92	16.84	33.882	6.01	0.30	1	0.00	323.9	100	15.73	33.80	-	24.91	305.6	.371									
112	15.04	33.746	5.72	0.41	2	0.01	295.0	125	13.61	33.72	-	25.30	268.2	.443									
131	13.32	33.703	5.27	0.80	5	0.02	263.9	150	11.88	33.81	-	25.71	229.3	.506									
150	11.94	33.787	4.19	1.31	11	0.02	232.1	200	10.22	34.11	-	26.24	178.8	.610									
180	10.55	33.926	3.41	1.79	19	0.00	197.8	250	9.89	34.34	-	26.48	156.4	.696									
214	9.94	34.145	2.40	2.23	27	0.00	171.7	300	9.13	34.36	-	26.62	143.0	.774									
243	9.84	34.288	-	2.50	31	-	159.5	400	7.61	34.32	-	26.82	123.9	.914									
292	9.18	34.337	1.25	2.70	37	-	145.5	500	6.85	34.40	-	26.99	107.8	1.037									
346	8.04	34.281	1.11	2.85	41	-	132.8	600	6.31	34.45	-	27.10	97.2	1.147									
430	7.29	34.350	.69	3.14	54	-	117.3																
514	6.58	34.388	.50	3.27	63	-	105.2																
599	6.16	34.435	.45	3.32	67	-	96.5																
137.23								CCOFI CRUISE 6507								137.23							
ALEXANDER AGASSIZ, AUGUST 8 1965, 1308 1255 GCT, 25 34.5N 112 19W, SOUNDING 40 FM, WIND CALM, WEATHER OVERCAST, SEA SLIGHT, WIRE ANGLE 01.																							
0	25.42	34.778	5.33	0.45	1	0.00	481.0	0	25.61	34.82	-	23.04	483.6	0									
10	25.42	34.776	4.92	0.51	1	0.00	481.2	10	25.54	34.81	-	23.05	482.3	.048									
20	24.94	34.780	5.16	0.50	1	0.00	466.9	20	25.03	34.82	-	23.22	466.6	.096									
60	18.23	34.598	3.25	1.54	8	0.00	303.6	30	21.85	34.41	-	23.83	407.9	.140									
								50	18.83	34.60	-	24.78	317.8	.212									

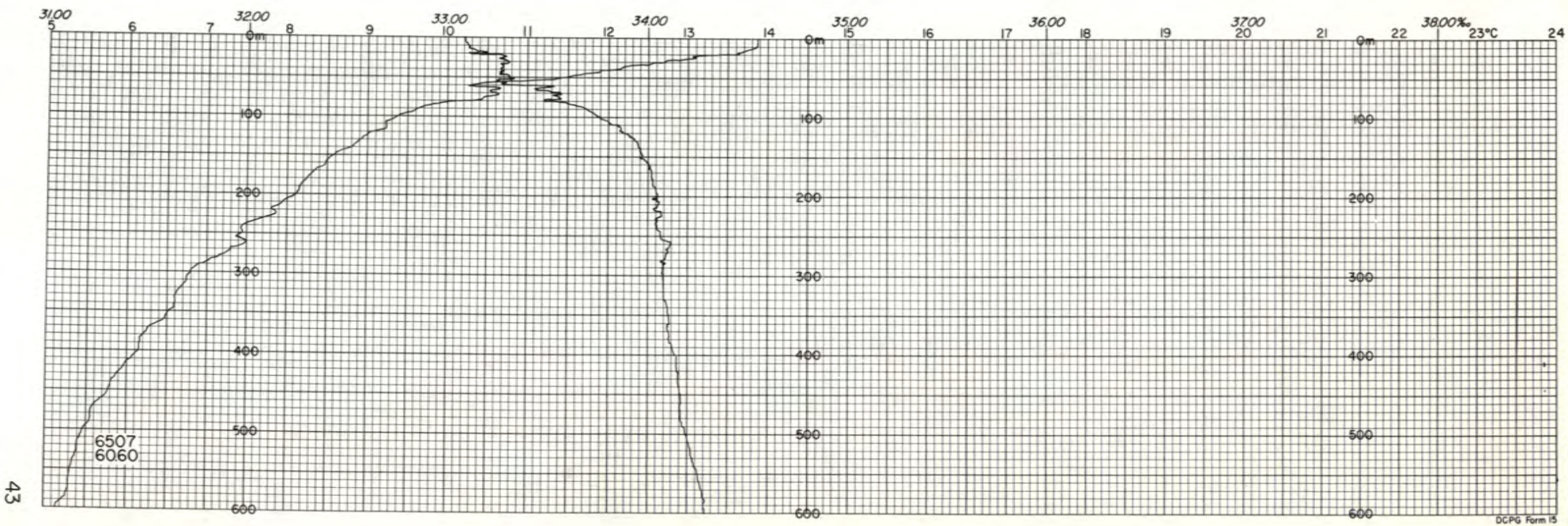
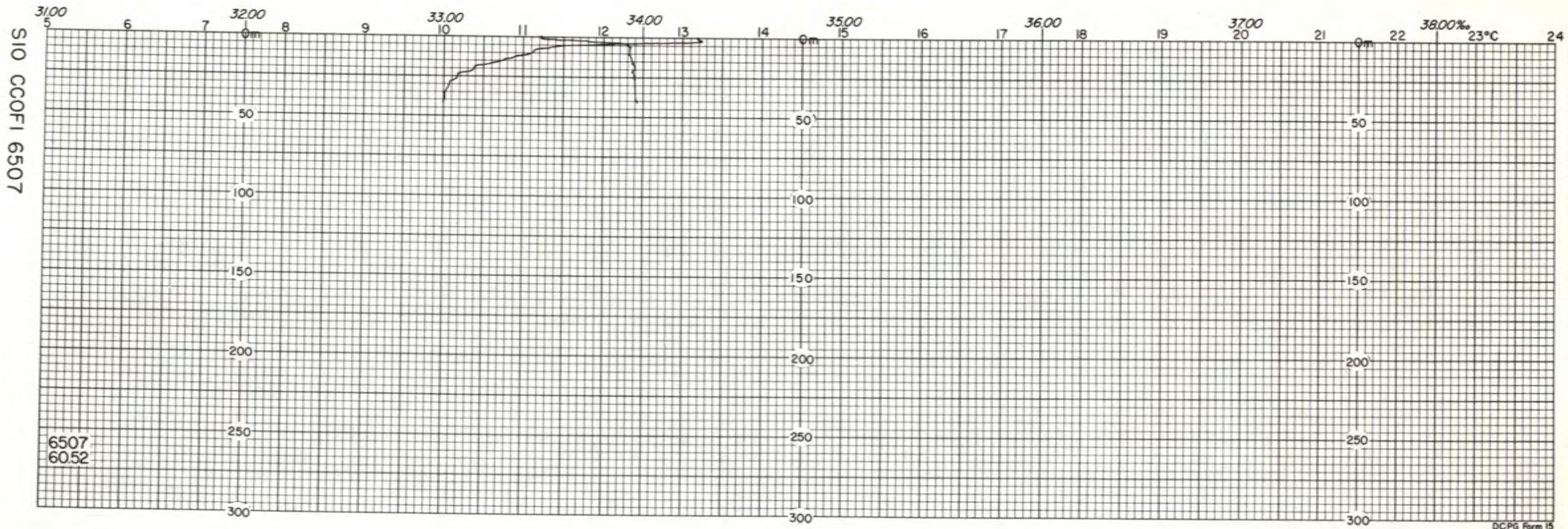
OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED				INPUT				COMPUTED			
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD	
137.30								137.30							
ALEXANDER AGASSIZ, AUGUST 8 1965, 1641 1622 GCT, 25 20N 112 46W, SOUNDING 181 FM, WIND 090 FORCE 1, WEATHER CLOUDY, SEA MODERATE, WIRE ANGLE 02.															
0	21.86	33.935	5.66	0.20	1	0.00	442.6	0	21.88	33.95	-	23.48	442.0	0	
10	21.41	33.939	5.74	0.21	2	0.00	430.4	10	21.28	33.82	-	23.54	435.7	.044	
30	17.46	33.879	5.59	0.44	3	0.00	338.1	20	18.65	33.88	-	24.27	365.8	.084	
100	12.76	34.280	1.60	2.29	23	0.00	210.9	30	17.37	33.88	-	24.59	336.0	.119	
								50	15.20	33.98	-	25.16	281.3	.181	
								75	13.07	34.03	-	25.65	235.1	.246	
								100	12.88	34.29	-	25.89	212.4	.303	
								125	12.68	34.36	-	25.98	203.5	.355	
								150	12.61	34.56	-	26.15	187.5	.405	
								200	12.42	34.64	-	26.25	178.1	.499	
								250	11.99	34.67	-	26.35	168.0	.588	
								300	11.28	34.65	-	26.47	156.8	.673	
137.40								137.40							
ALEXANDER AGASSIZ, AUGUST 8 1965, 2244 2200 GCT, 25 00N 113 23.5W, SOUNDING 1605 FM, WIND 180 FORCE 1, WEATHER CLOUDY, SEA ROUGH, WIRE ANGLE 02.															
0	23.52	33.997	5.73	0.20	2	0.00	483.1	0	23.47	33.99	-	23.05	482.2	0	
10	22.32	33.983	5.30	0.19	2	0.00	451.3	10	22.42	34.02	-	23.38	451.4	.047	
50	15.28	33.875	4.79	0.79	4	0.83	290.6	20	20.05	33.86	-	23.90	401.4	.089	
80	12.84	33.949	-	-	-	0.05	236.7	30	18.00	34.04	-	24.56	338.8	.126	
90	12.56	34.044	-	-	-	0.01	224.5	50	15.35	33.87	-	25.04	292.5	.190	
100	12.88	34.225	1.88	2.18	18	0.00	217.2	75	13.72	34.01	-	25.50	249.1	.258	
								100	12.97	34.24	-	25.83	217.8	.317	
								125	12.34	34.42	-	26.09	192.8	.369	
								150	12.77	34.73	-	26.25	178.0	.416	
								200	11.95	34.72	-	26.40	163.6	.504	
								250	11.39	34.66	-	26.46	158.0	.587	
								300	11.19	34.72	-	26.54	150.1	.667	
								400	9.88	34.60	-	26.68	137.0	.818	
								500	8.23	34.52	-	26.88	117.8	.955	
								600	6.80	34.45	-	27.03	103.4	1.074	
137.50								137.50							
ALEXANDER AGASSIZ, AUGUST 9 1965, 0418 0346 GCT, 24 40N 114 02W, SOUNDING 2060 FM, WIND 200 FORCE 3, WEATHER FOG, SEA ROUGH, WIRE ANGLE 00.															
0	21.72	33.965	5.72	0.28	1	0.00	436.7	0	21.55	34.00	-	23.60	429.7	0	
10	20.89	33.962	5.26	0.32	2	0.00	415.3	10	20.93	33.98	-	23.76	415.0	.042	
50	16.76	33.826	5.90	0.37	2	0.00	326.2	20	20.48	33.98	-	23.88	403.5	.083	
80	13.50	33.857	-	-	-	0.05	256.0	30	19.58	33.96	-	24.10	382.5	.123	
90	12.62	33.911	-	-	-	0.03	235.4	50	16.68	33.76	-	24.66	329.2	.194	
100	12.32	33.991	2.83	1.81	18	0.01	224.0	75	14.07	33.85	-	25.30	267.7	.269	
								100	12.50	33.99	-	25.73	227.3	.332	
								125	11.83	34.26	-	26.07	195.3	.385	
								150	11.67	34.40	-	26.20	182.1	.433	
								200	11.32	34.63	-	26.45	159.0	.520	
								250	10.67	34.62	-	26.56	148.6	.600	
								300	10.07	34.62	-	26.66	138.6	.675	
								400	8.77	34.56	-	26.83	122.8	.812	
								500	7.96	34.54	-	26.94	112.4	.938	
								600	6.77	34.49	-	27.07	100.1	1.053	
137.60								137.60							
ALEXANDER AGASSIZ, AUGUST 9 1965, 1013 0933 GCT, 24 20N 114 39.5W, SOUNDING 1950 FM, WIND 060 FORCE 1, WEATHER DRIZZLE, SEA ROUGH, WIRE ANGLE 28.															
1	21.10	33.937	5.72	0.36	1	0.00	422.5	0	21.35	33.96	-	23.63	427.4	0	
9	20.80	33.935	5.36	0.31	2	0.00	415.0	10	20.68	33.93	-	23.79	412.3	.042	
26	19.83	33.894	5.79	0.34	2	0.00	393.5	20	20.41	33.91	-	23.84	406.8	.083	
35	18.55	33.866	5.90	0.34	2	0.00	364.4	30	19.78	33.88	-	23.99	393.3	.123	
43	16.14	33.761	5.97	0.42	3	0.00	317.3	50	15.70	33.74	-	24.87	309.4	.194	
57	14.32	33.740	5.19	0.80	5	0.23	280.8	75	13.14	33.90	-	25.53	246.0	.263	
67	13.74	33.948	3.69	1.49	11	0.03	254.0	100	11.80	33.95	-	25.83	217.6	.322	
85	12.65	34.015	2.66	1.84	17	0.03	228.3	125	10.63	34.11	-	26.17	185.6	.373	
105	10.90	33.971	3.13	1.84	20	0.01	200.4	150	10.62	34.31	-	26.33	170.6	.418	
120	10.55	34.075	2.66	2.07	23	0.01	186.8	200	10.51	34.50	-	26.49	154.8	.502	
144	10.20	34.206	2.33	2.30	29	0.00	171.4	250	10.32	34.58	-	26.59	145.7	.579	
166	11.02	34.509	1.10	2.65	31	0.00	162.7	300	9.71	34.55	-	26.67	138.0	.653	
190	10.96	34.588	.62	2.76	30	-	155.9	400	8.48	34.54	-	26.86	119.9	.789	
222	10.46	34.579	.60	2.83	36	-	148.1	500	7.27	34.51	-	27.02	105.2	.909	
271	10.03	34.613	.45	3.01	39	-	138.5	600	6.36	34.49	-	27.12	94.9	1.017	
334	9.09	34.546	.37	3.12	45	-	128.6								
400	8.30	34.514	.36	3.17	49	-	119.2								
474	7.32	34.477	.43	3.17	59	-	108.3								

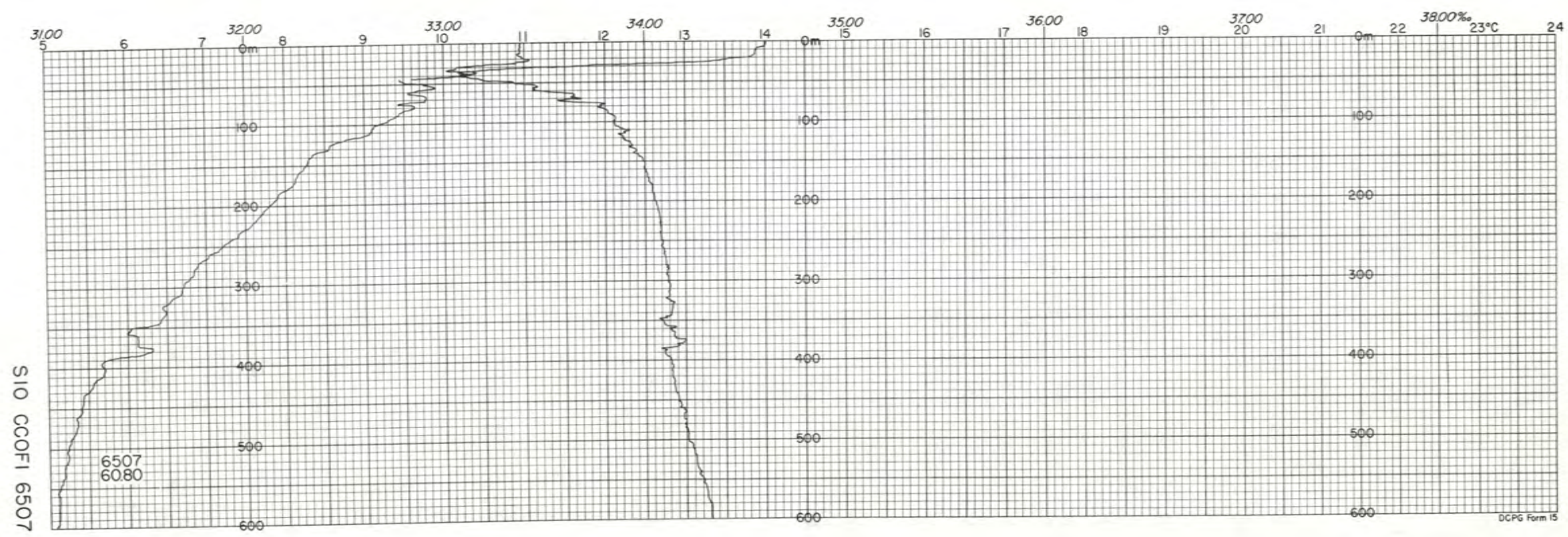
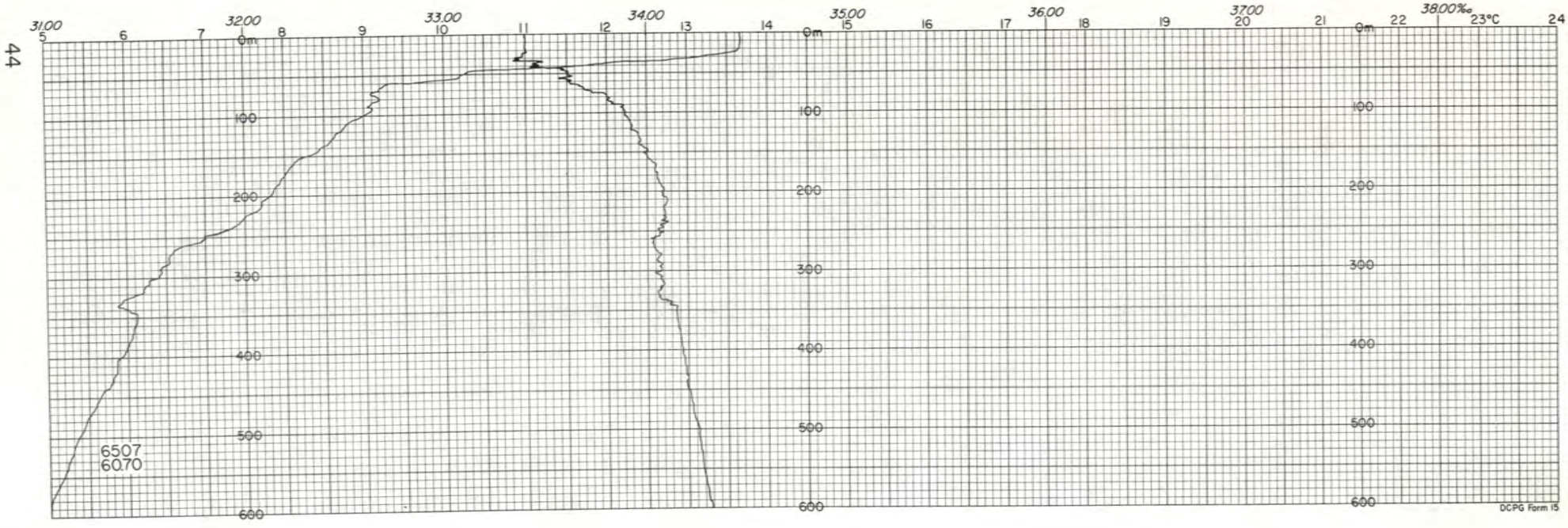
OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED				INPUT				COMPUTED			
Z	T	S	XY	PHO	SIL	NIT	D*T	Z	T	S	XY	SIG*T	D*T	DC	
137.70								137.70							
ALEXANDER AGASSIZ, AUGUST 9 1965, 19 1506 GCT, 23 59.5N 115 18w, SOUNDING 2030 FM, WIND 310 FORCE 1, WEATHER CLOUDY, SEA MISSING, WIRE ANGLE 01.															
0	22.48	34.014	5.67	0.21	2	0.00	453.4	0	22.50	34.03	-	23.36	452.8	0	
10	22.27	34.029	4.42	0.18	2	0.00	446.7	10	22.38	34.04	-	23.40	448.8	.045	
25	18.52	33.849	5.85	0.24	2	0.00	364.9	20	21.45	33.98	-	23.62	428.5	.069	
100	12.21	34.306	1.58	2.22	23	0.00	198.8	30	16.87	33.60	-	24.49	345.1	.128	
								50	14.19	33.90	-	25.32	266.5	.189	
								75	13.14	34.14	-	25.72	228.3	.251	
								100	12.30	34.34	-	26.04	197.9	.305	
								125	12.33	34.60	-	26.23	179.3	.353	
								150	11.96	34.67	-	26.36	167.4	.397	
								200	11.36	34.68	-	26.48	156.0	.480	
								250	10.67	34.65	-	26.58	146.4	.559	
								300	10.07	34.62	-	26.66	138.6	.633	
								400	8.92	34.55	-	26.80	125.8	.772	
								500	7.60	34.48	-	26.95	111.9	.859	
								600	6.66	34.47	-	27.07	100.1	1.014	
137.80								137.80							
ALEXANDER AGASSIZ, AUGUST 9 1965, 2013 1946 GCT, 23 40N 115 55.5w, SOUNDING 2082 FM, WIND 220 FORCE 1, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 03.															
0	23.19	34.072	5.55	0.20	2	0.00	468.6	0	21.94	34.09	-	23.56	433.5	0	
10	21.16	34.059	5.21	0.20	2	0.00	415.3	10	21.42	34.09	-	23.71	419.8	.043	
50	19.22	34.104	5.67	0.20	2	0.00	363.2	20	21.24	34.08	-	23.75	415.8	.085	
100	14.63	33.731	5.44	0.47	6	0.05	287.7	30	20.82	34.16	-	23.92	399.2	.125	
								50	19.51	34.13	-	24.25	368.5	.202	
								75	17.88	33.89	-	24.47	346.9	.292	
								100	14.85	33.74	-	25.05	291.6	.373	
								125	12.63	33.92	-	25.65	234.9	.439	
								150	10.73	33.94	-	26.02	199.8	.494	
								200	9.80	34.19	-	26.37	166.1	.588	
								250	9.90	34.42	-	26.54	150.7	.669	
								300	9.38	34.45	-	26.65	140.2	.745	
								400	8.27	34.44	-	26.81	124.3	.884	
								500	-	34.45	-	26.97	109.6	1.008	
								600	.1	34.46	-	27.08	99.0	1.121	
140.30								140.30							
ALEXANDER AGASSIZ, AUGUST 10 1965, 2011 1955 GCT, 24 45.5N 112 24w, SOUNDING 57 FM, WIND 270 FORCE 1, WEATHER PARTLY CLOUDY, SEA SLIGHT, WIRE ANGLE 07.															
0	27.21	34.981	4.96	0.34	2	0.00	520.1	0	27.36	35.02	-	22.64	521.9	0	
10	26.68	34.968	4.97	0.43	1	0.00	504.9	10	26.65	34.96	-	22.82	504.6	.051	
50	19.28	34.465	4.80	0.97	5	-	338.5	20	25.24	34.80	-	23.14	474.2	.100	
94	16.48	34.940	1.90	2.25	18	-	238.7	30	24.93	34.70	-	23.16	472.4	.148	
								50	19.78	34.37	-	24.36	357.7	.231	
								75	16.82	34.69	-	25.34	264.5	.309	
								100	16.20	34.71	-	25.50	249.3	.374	
140.40								140.40							
ALEXANDER AGASSIZ, AUGUST 10 1965, 1437 1402 GCT, 24 25.5N 113 02w, SOUNDING MISSING, WIND 250 FORCE 1, WEATHER CLOUDY, SEA SLIGHT, WIRE ANGLE 00.															
0	23.31	34.173	5.78	0.29	2	0.00	464.6	0	23.37	34.17	-	23.22	466.5	0	
10	22.22	34.130	5.12	0.33	2	0.00	438.0	10	22.34	34.13	-	23.48	441.3	.045	
55	14.86	33.674	5.71	0.43	4	-	296.6	20	21.35	34.00	-	23.66	424.5	.089	
100	13.29	34.405	1.52	2.29	22	-	211.8	30	19.04	33.92	-	24.21	372.2	.129	
								50	15.28	33.68	-	24.91	304.9	.197	
								75	13.80	34.06	-	25.52	247.0	.266	
								100	13.13	34.39	-	25.91	209.8	.324	
								125	12.75	34.50	-	26.07	194.5	.375	
								150	12.40	34.54	-	26.17	185.0	.423	
								200	11.89	34.69	-	26.39	164.7	.513	
								250	10.52	34.52	-	26.51	153.4	.595	
								300	10.30	34.59	-	26.60	144.6	.673	
								400	9.01	34.56	-	26.79	126.4	.815	
								500	7.76	34.50	-	26.94	112.6	.943	
								600	6.87	34.51	-	27.07	99.9	1.058	

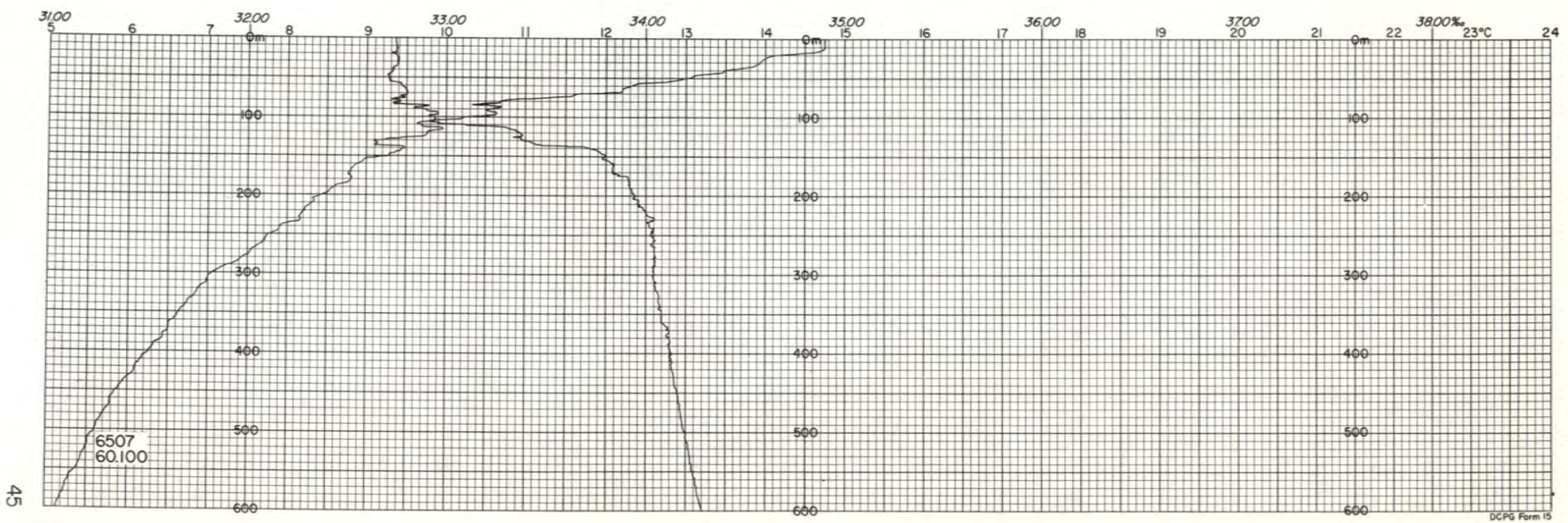
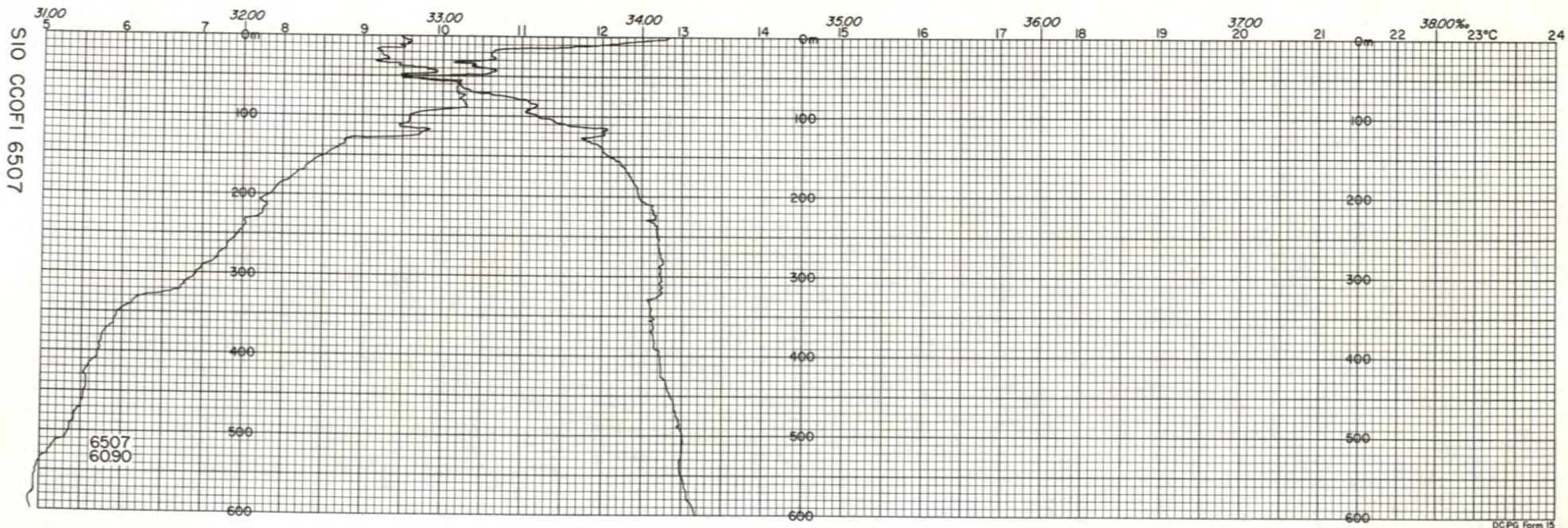
OBSERVED LEVELS OF DEPTH

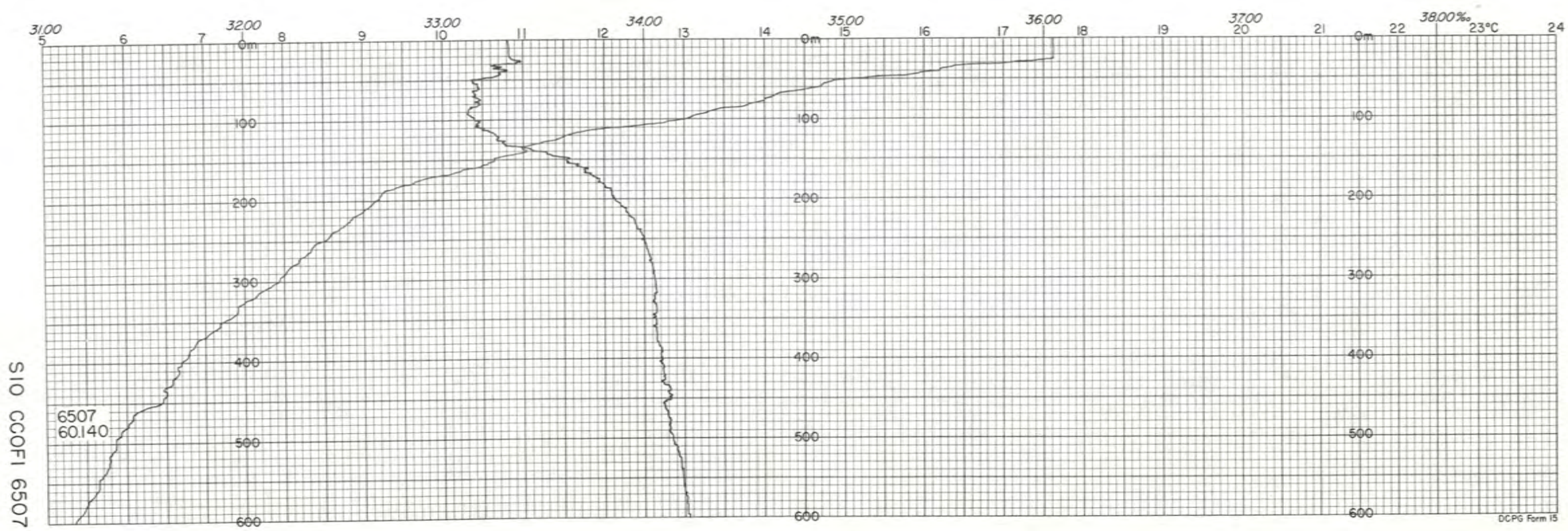
STANDARD LEVELS OF DEPTH

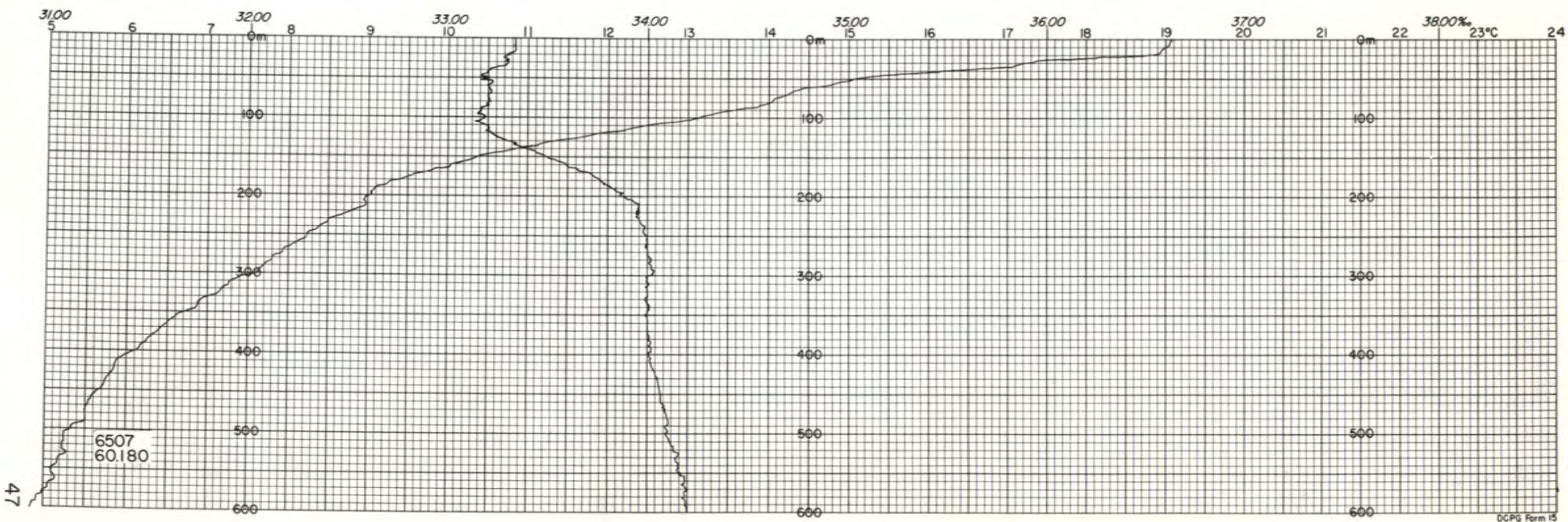
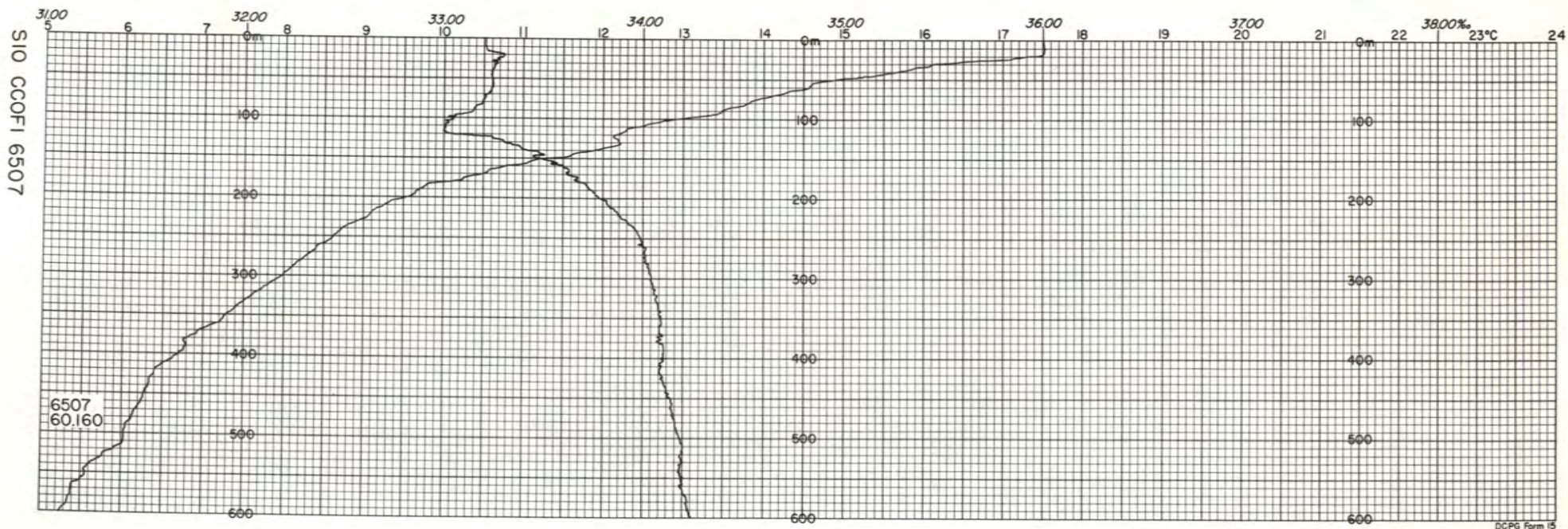
OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH							
INPUT								COMPUTED							
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD	
140.50								140.50							
CCOFI CRUISE 6507															
ALEXANDER AGASSIZ, AUGUST 10 1965, 0843 0807 GCT, 24 05N 113 40W, SOUNDING 1925 FM, WIND 320 FORCE 1, WEATHER PARTLY CLOUDY, SEA MODERATE, WIRE ANGLE 07.															
0	23.39	34.209	5.42	0.25	2	0.00	464.2	0	23.54	34.23	-	23.22	466.8	0	
10	22.67	34.190	5.09	0.26	1	0.00	445.8	10	22.81	34.20	-	23.40	448.9	.046	
40	19.10	33.888	5.73	0.27	1	0.00	376.0	20	22.40	34.20	-	23.52	437.8	.090	
60	16.62	33.770	-	-	-	0.00	327.1	30	21.33	34.07	-	23.72	418.9	.133	
80	15.36	33.759	-	-	-	0.12	300.8	50	17.40	33.78	-	24.50	343.9	.210	
99	13.20	33.721	4.67	1.00	8	0.03	260.2	75	15.52	33.77	-	24.93	303.3	.291	
								100	13.28	33.75	-	25.39	259.6	.362	
								125	11.97	33.86	-	25.73	227.2	.424	
								150	11.10	34.06	-	26.05	197.2	.477	
								200	11.46	34.58	-	26.38	165.1	.570	
								250	11.05	34.65	-	26.51	152.8	.652	
								300	10.44	34.62	-	26.60	144.7	.730	
								400	8.68	34.50	-	26.80	125.9	.872	
								500	7.50	34.46	-	26.94	112.0	.999	
								600	6.58	34.46	-	27.07	99.9	1.113	



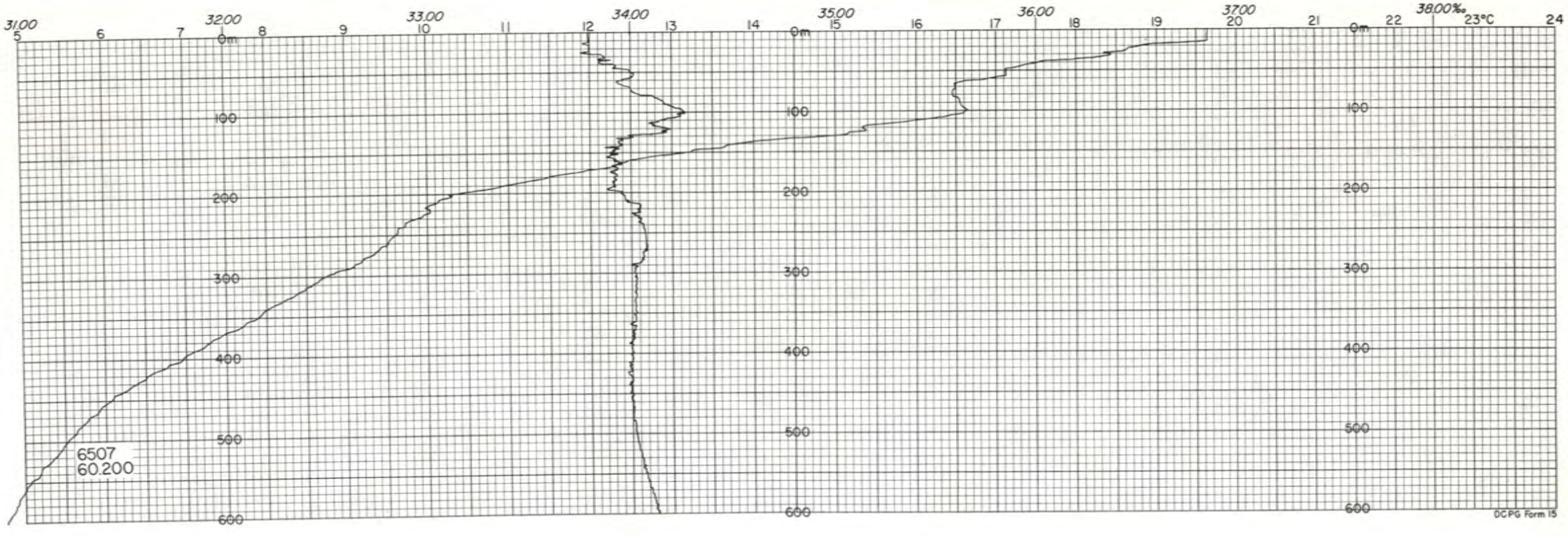




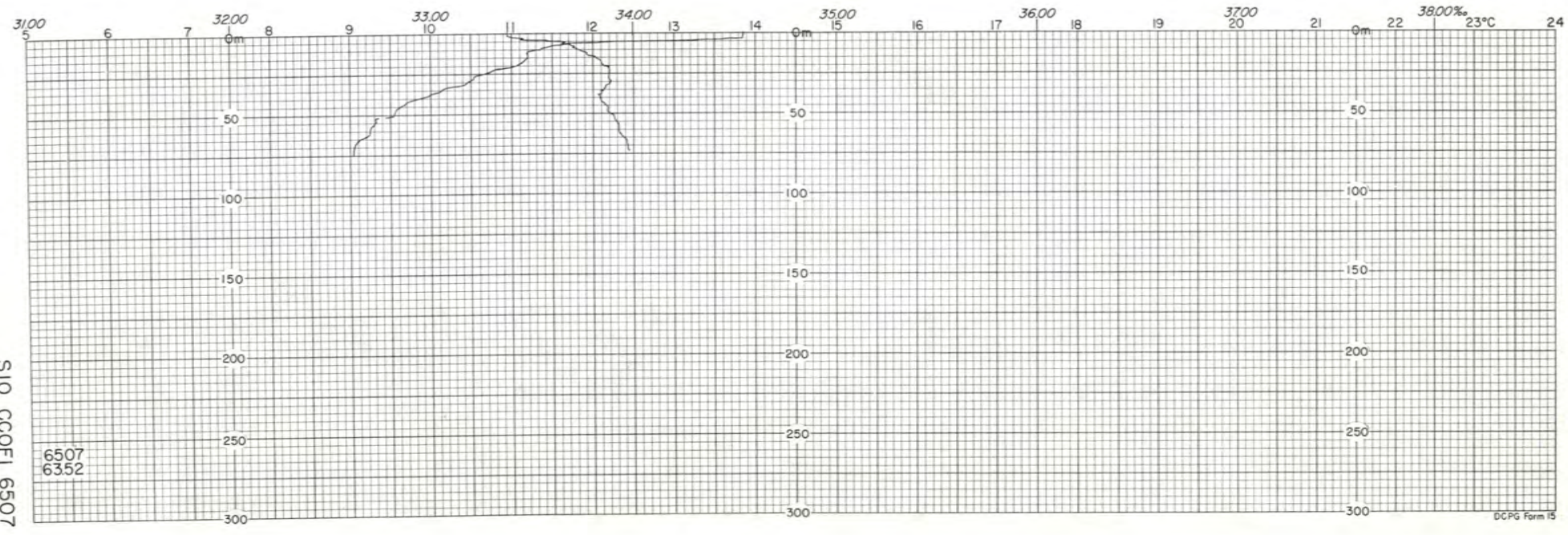




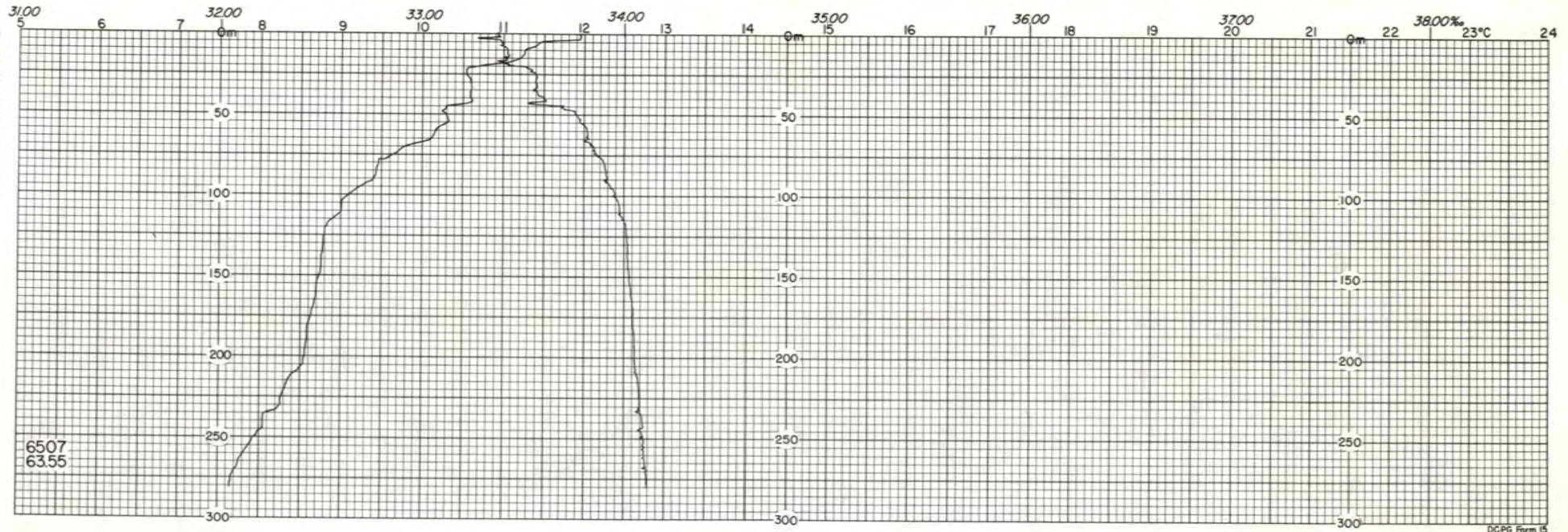
48



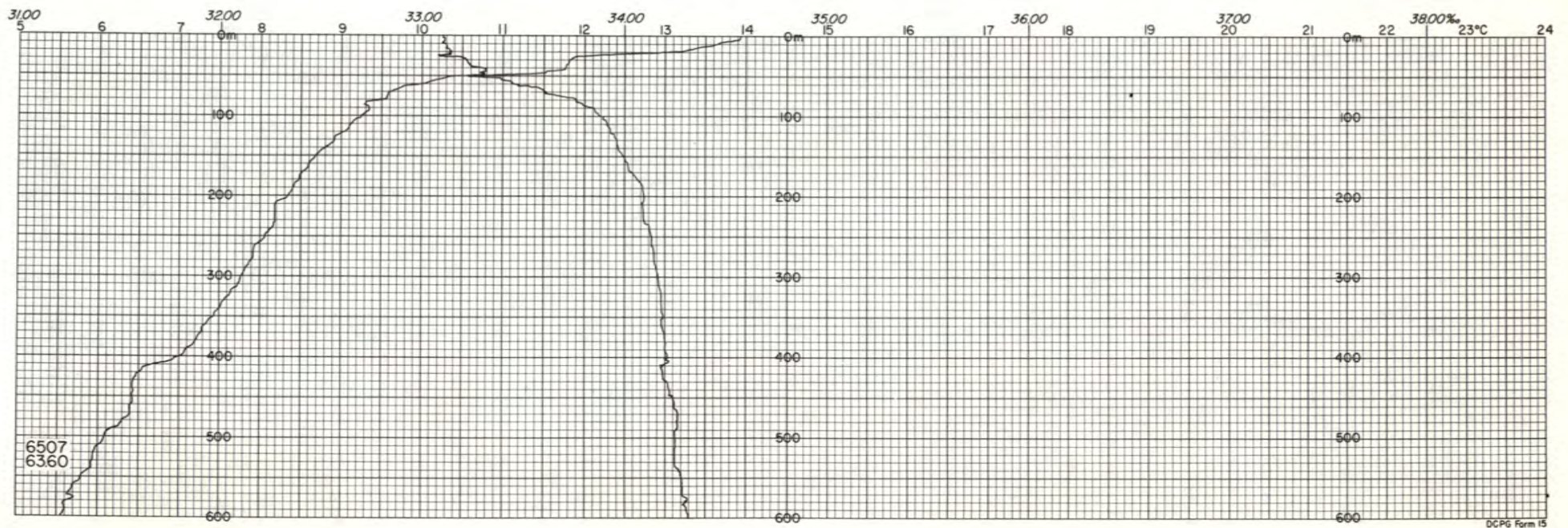
S10 CCOFI 6507

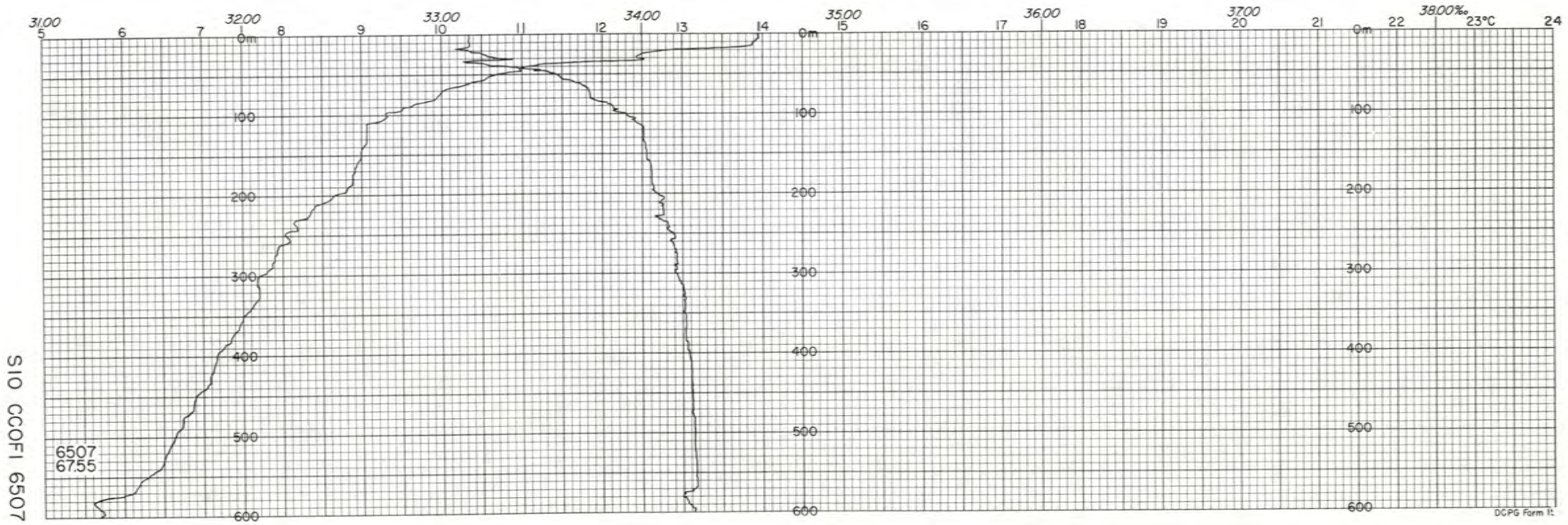
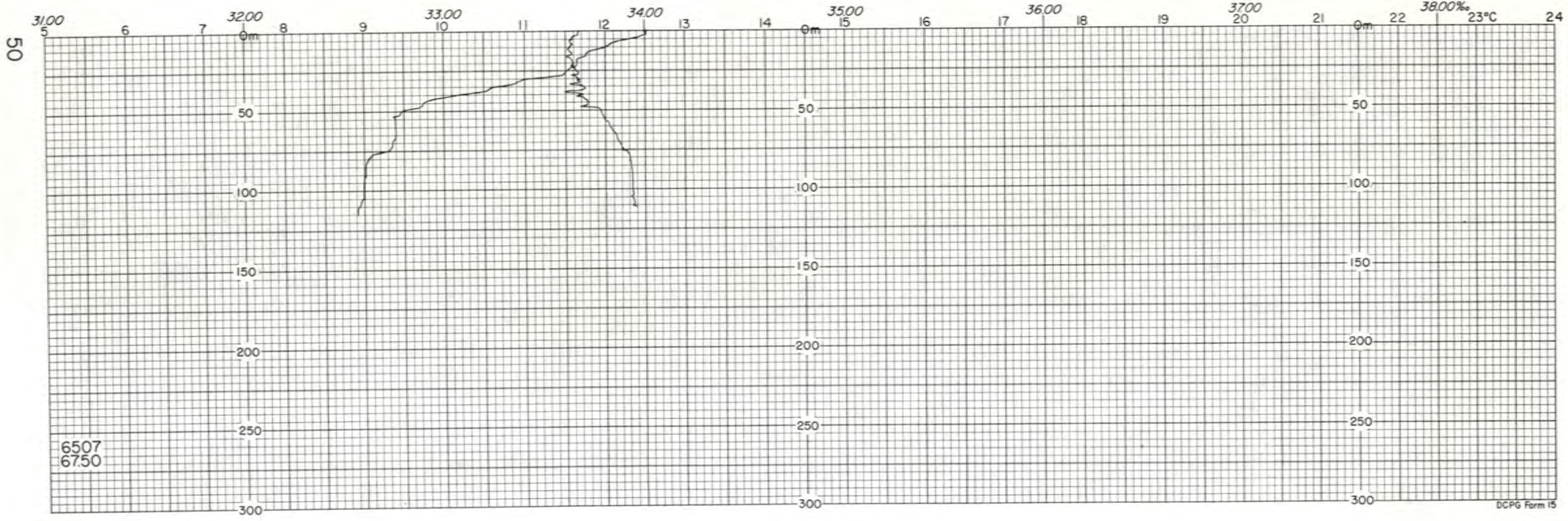


SIO COFI 6507

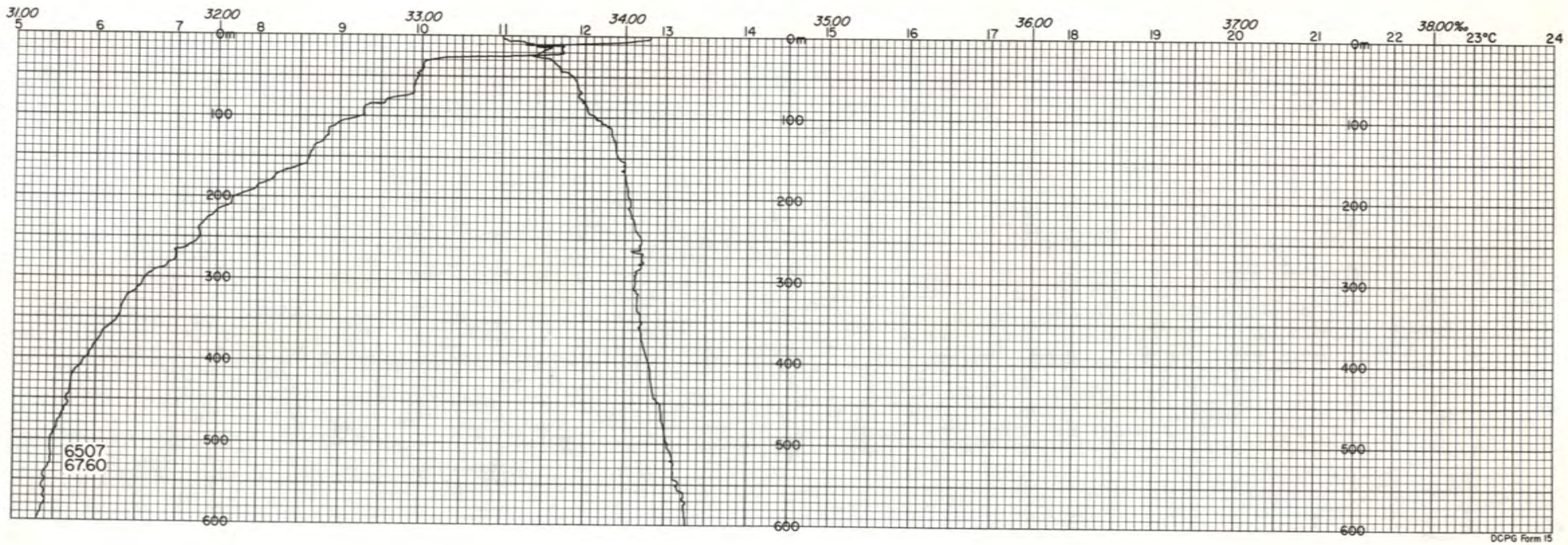


49

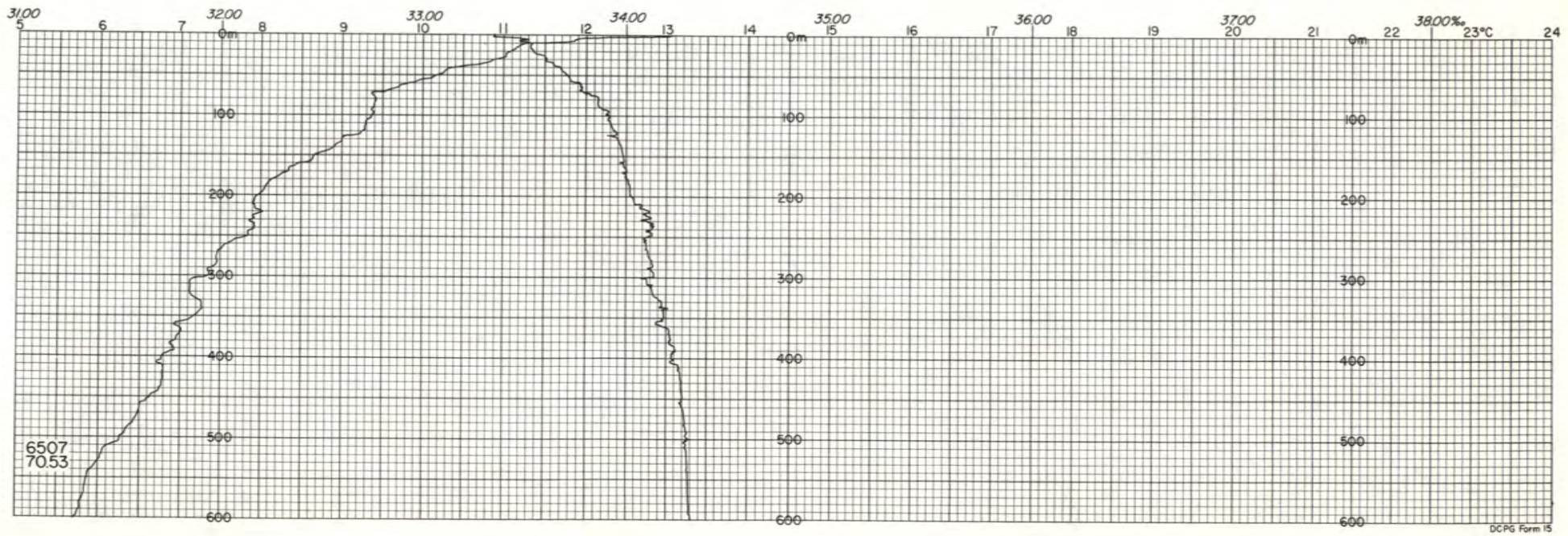


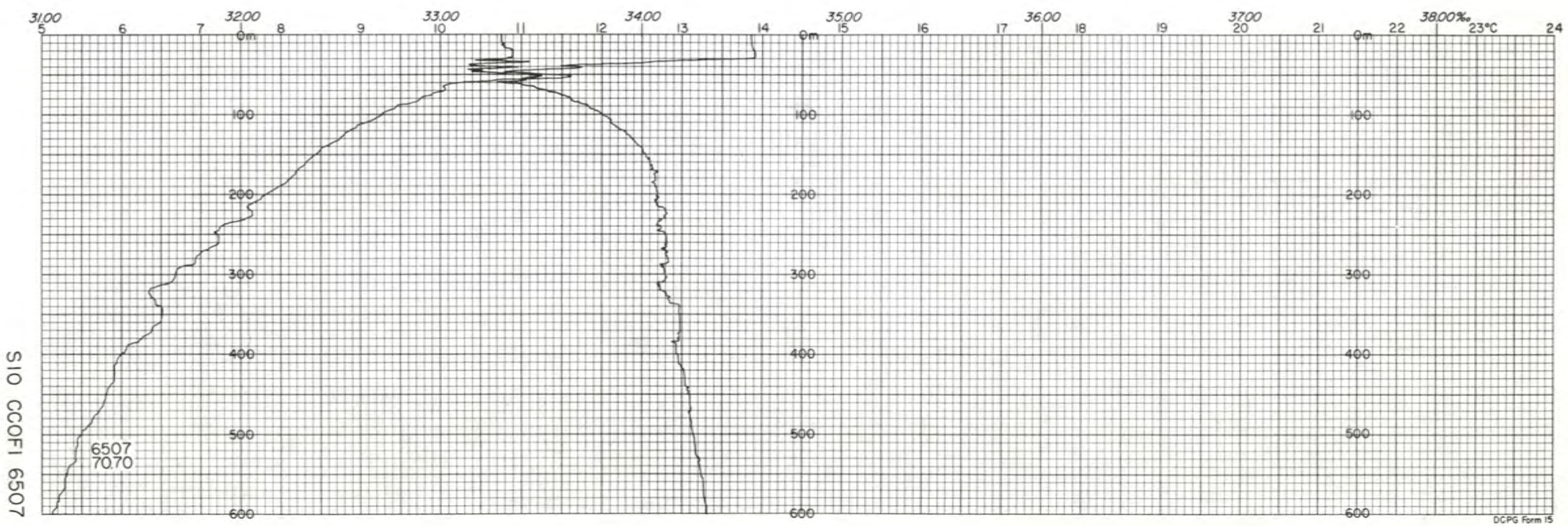
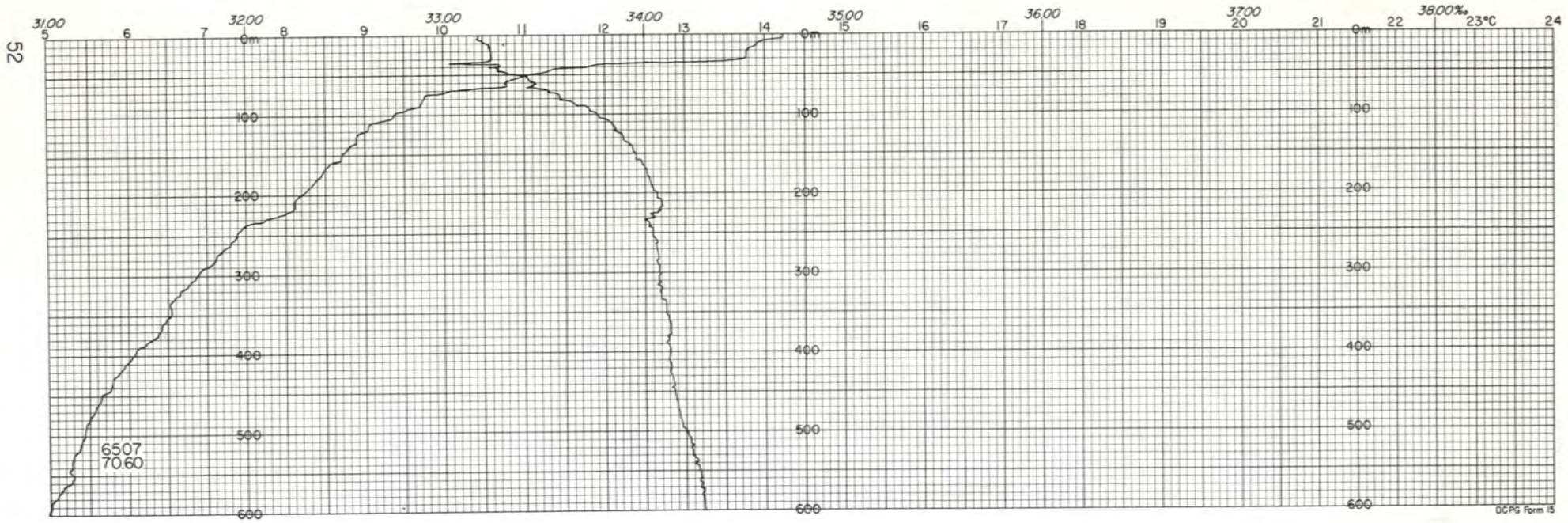


S10 CCOFI 6507

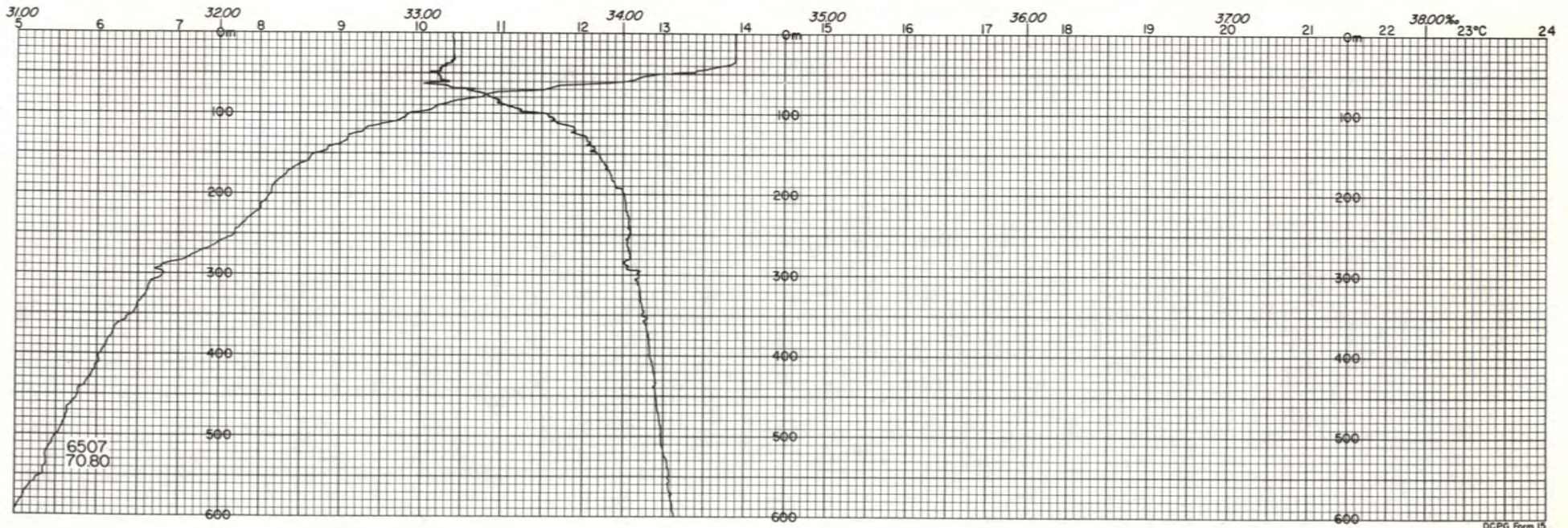


51



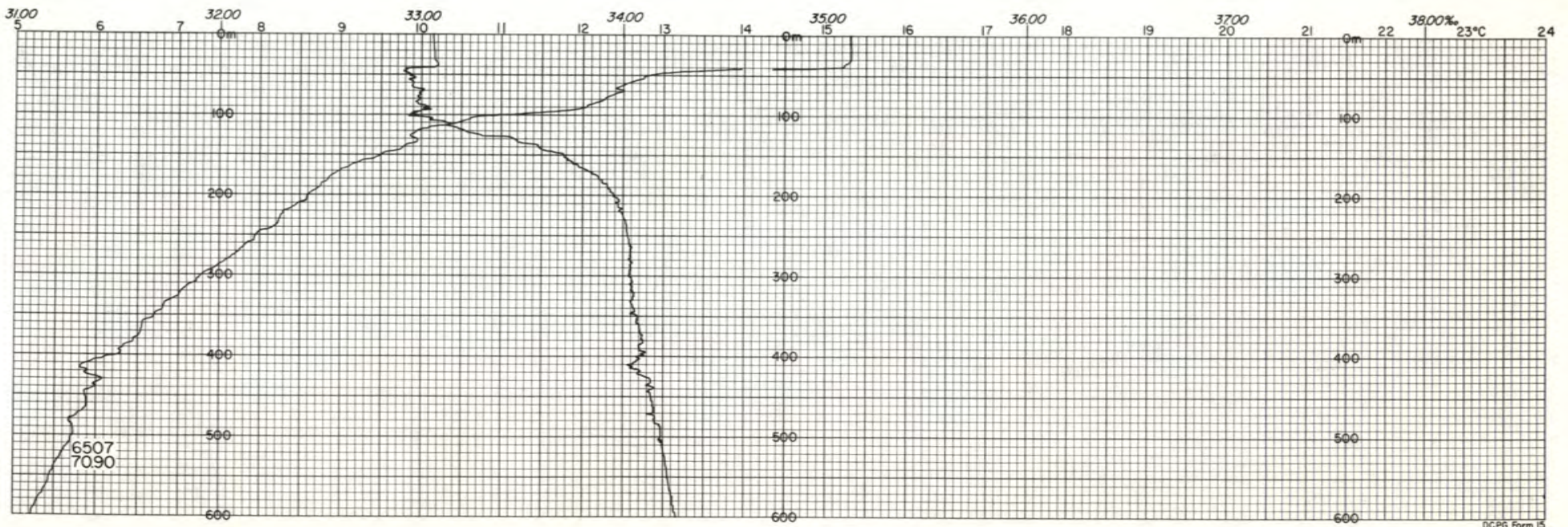


SID CCOFI 6507

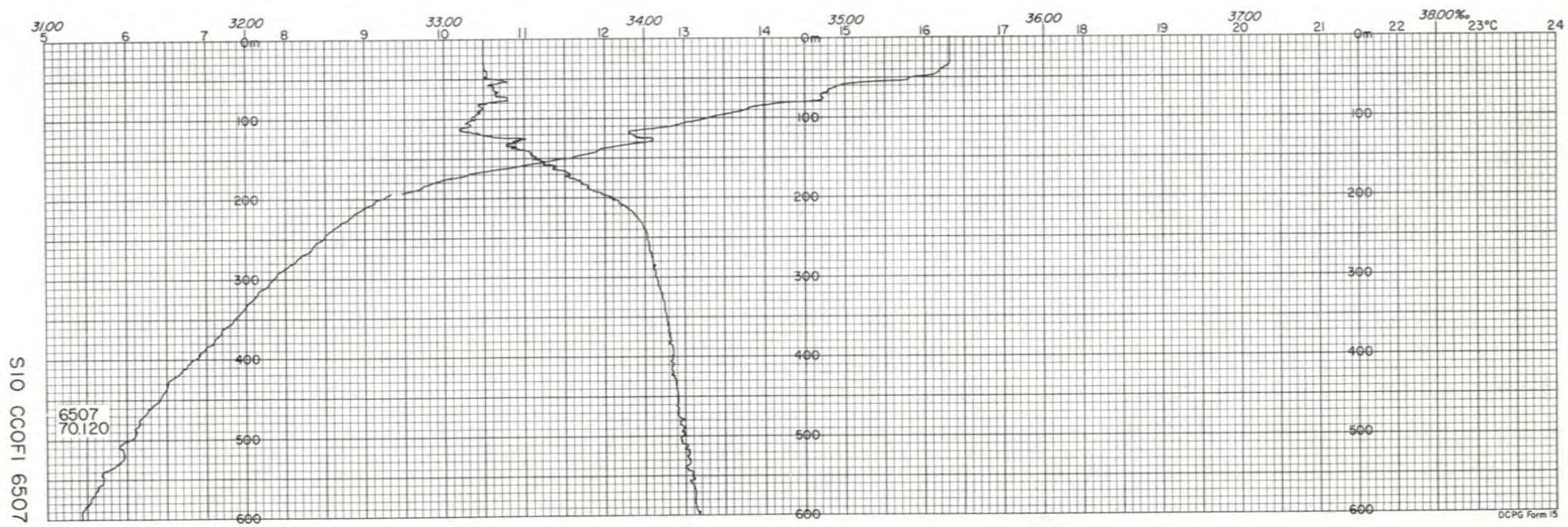
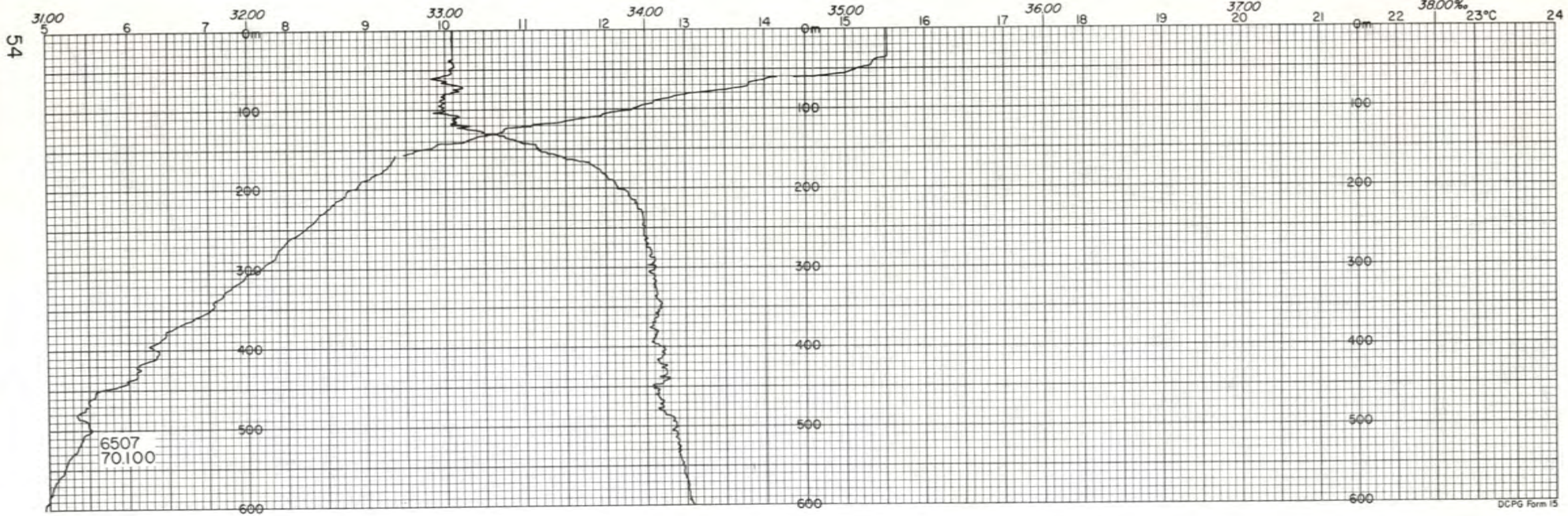


DCPG Form 15

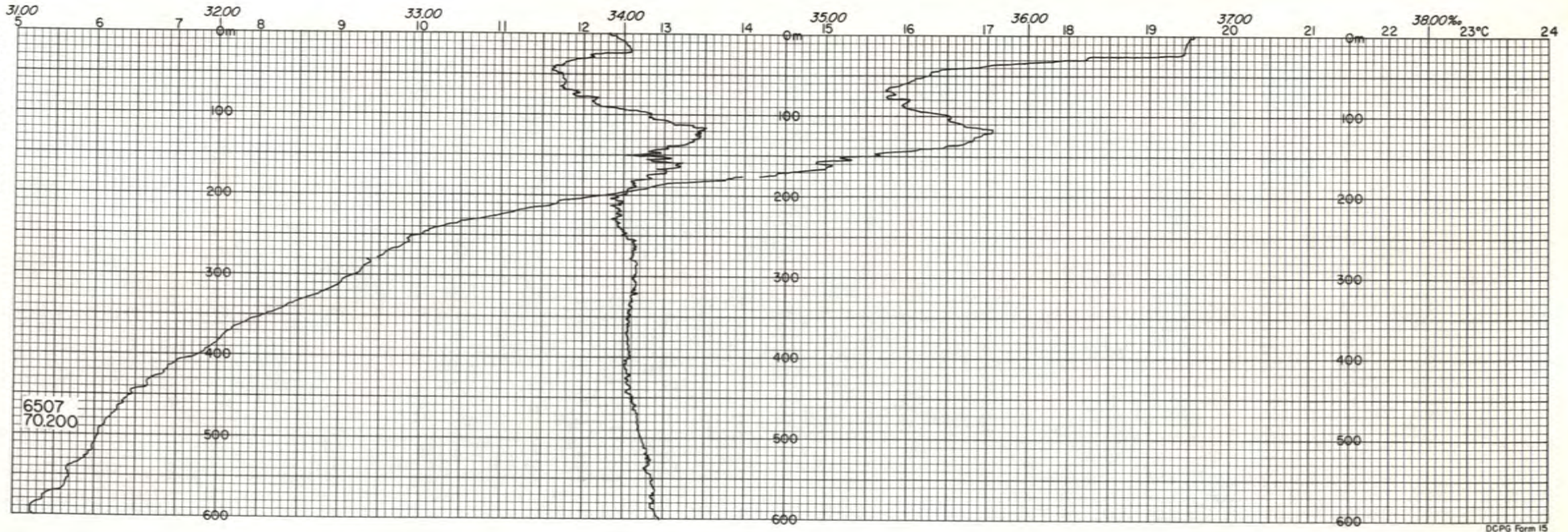
53



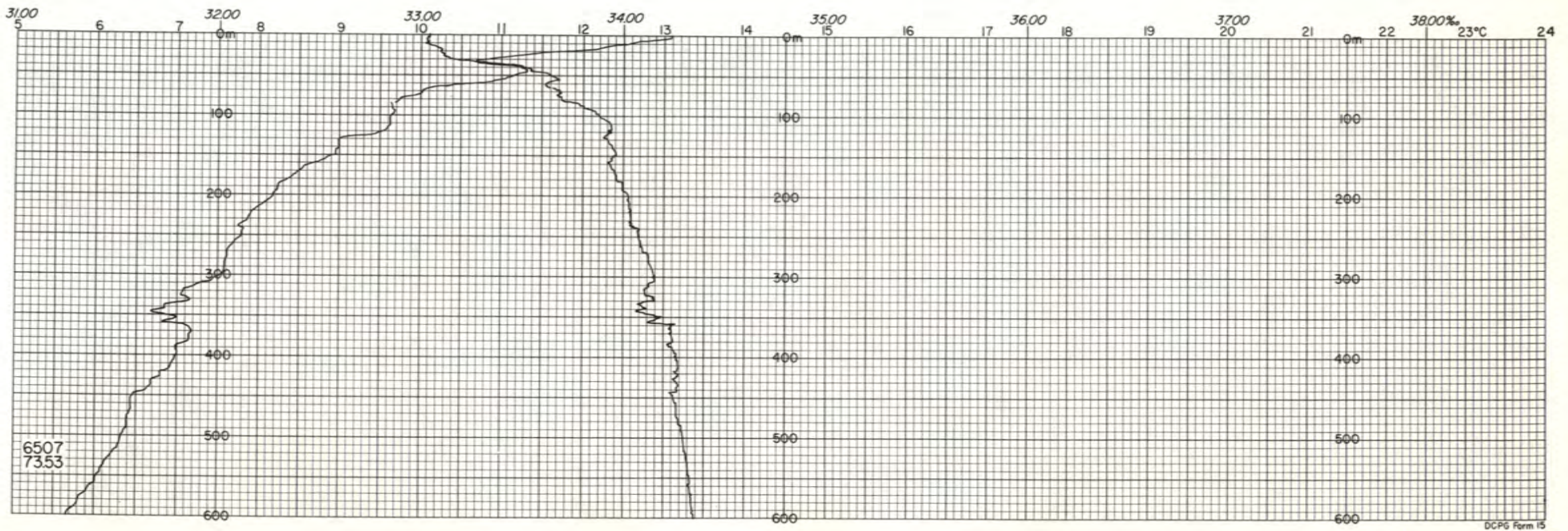
DCPG Form 15

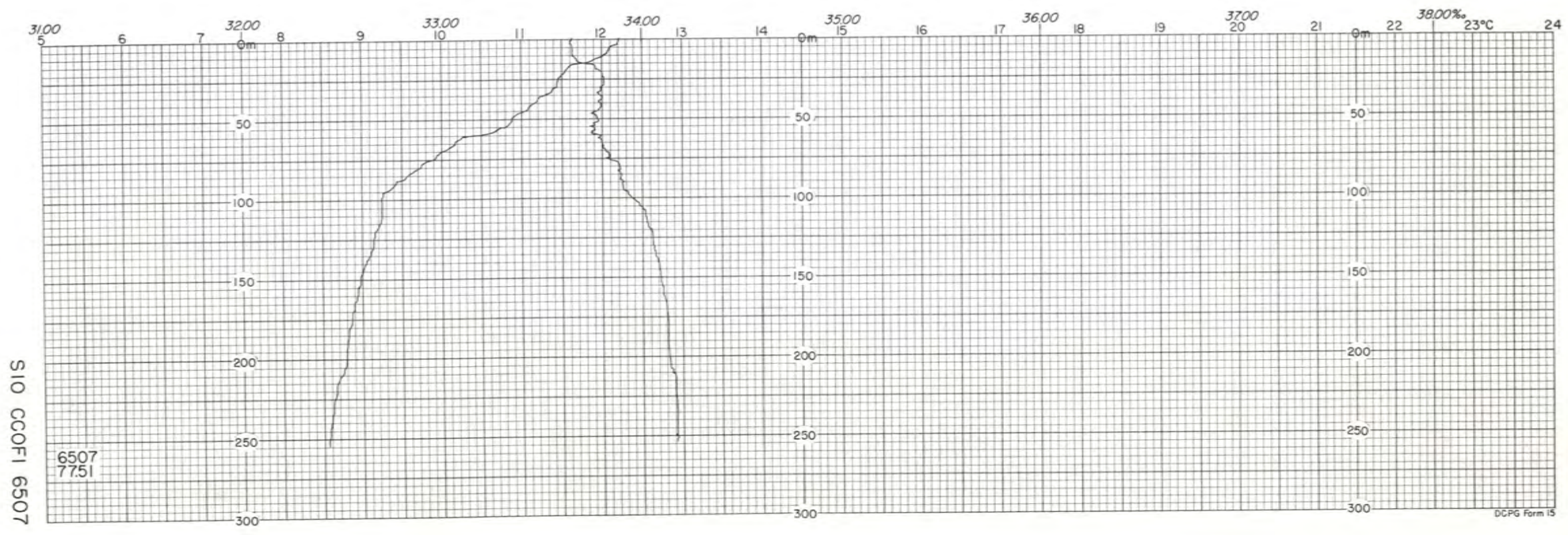
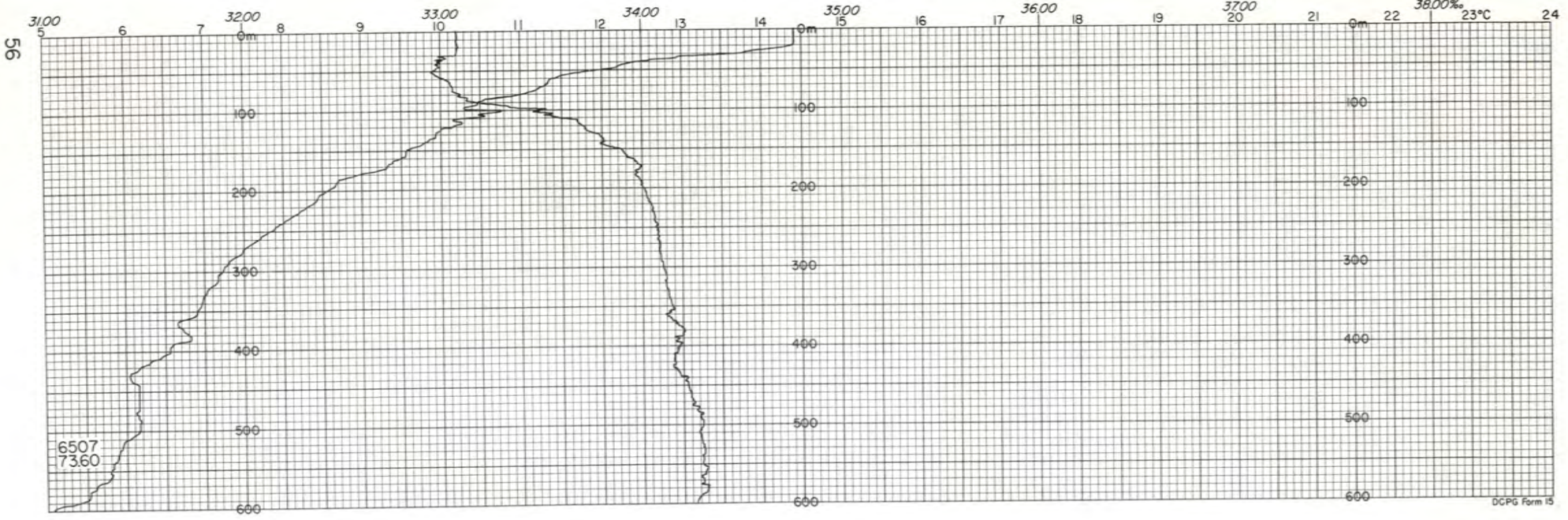


S10 CCOFI 6507

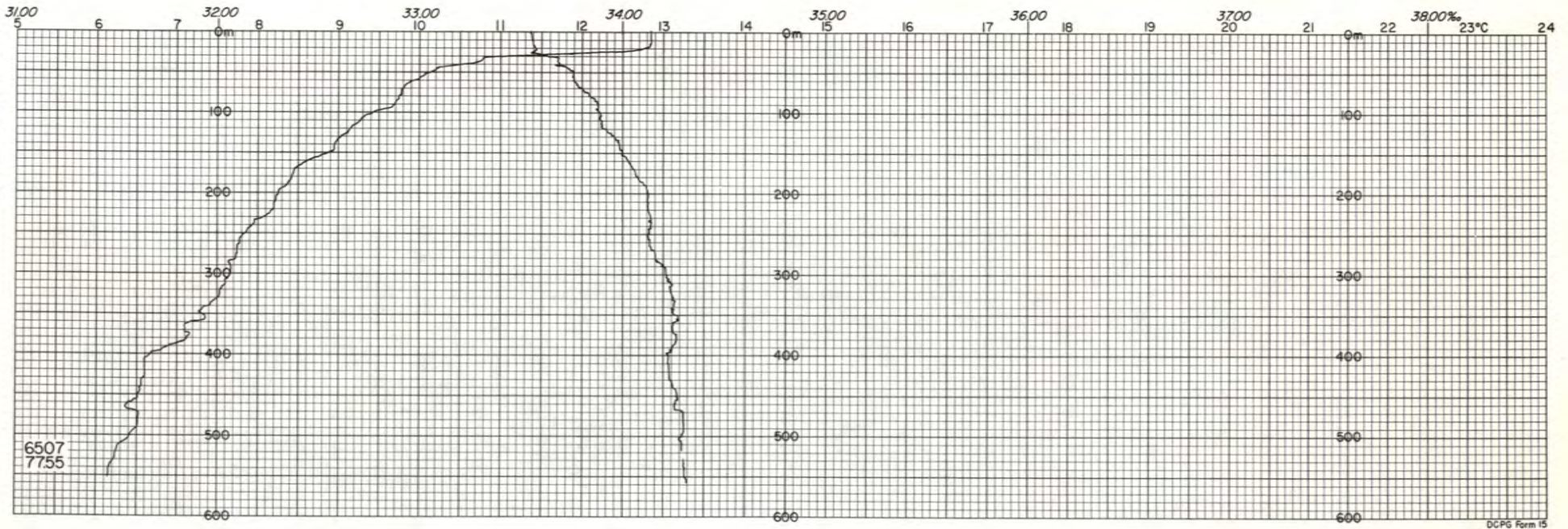


55



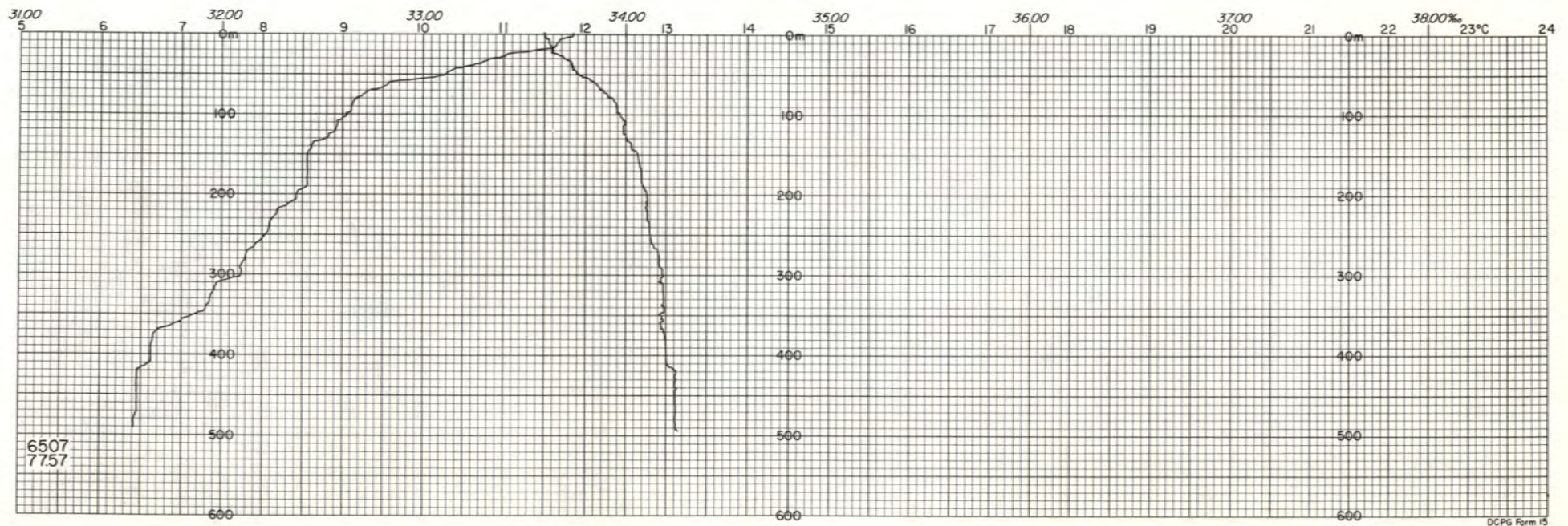


S10 CCOFI 6507

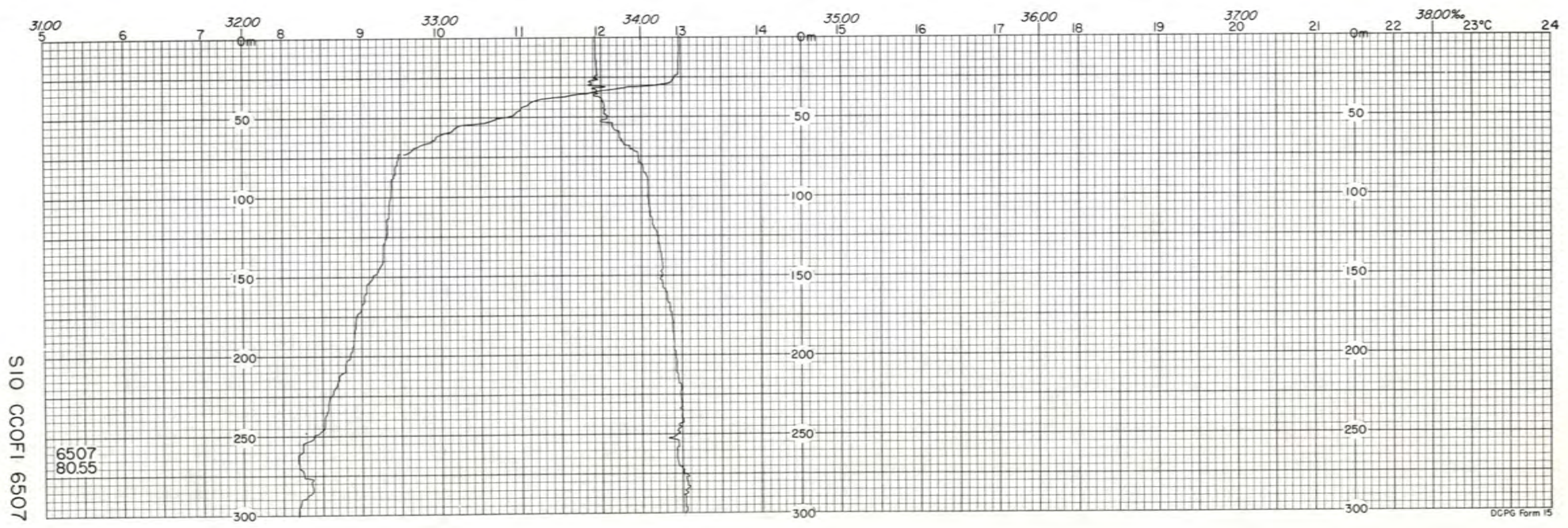
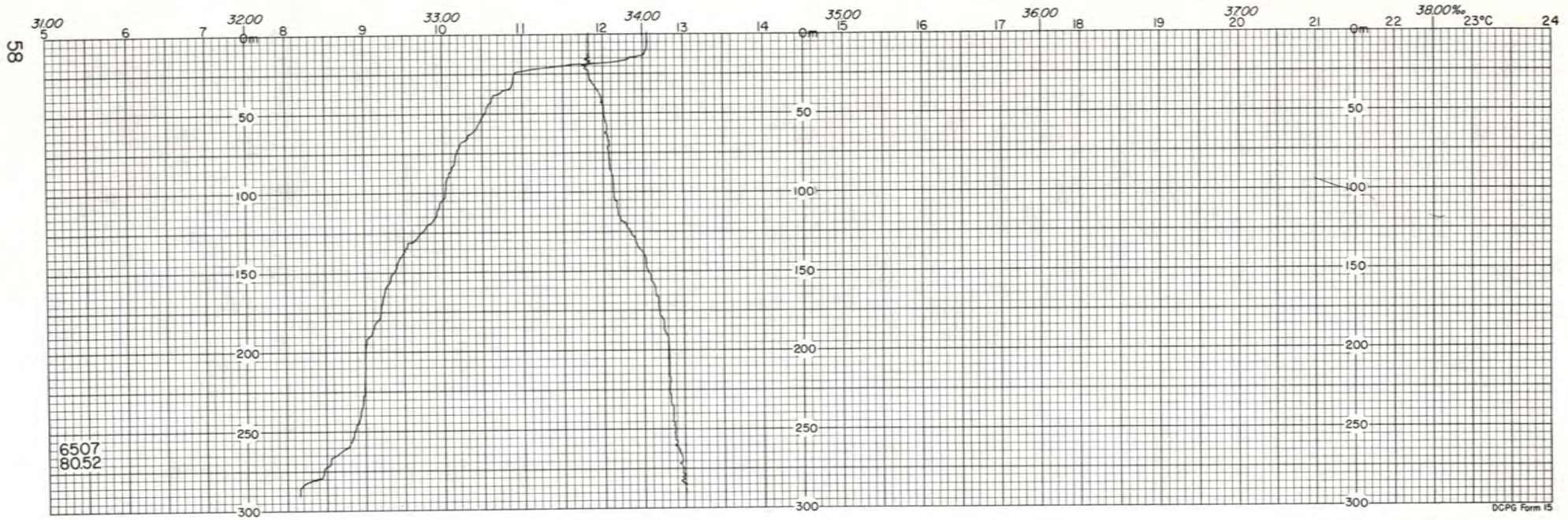


DCPG Form 15

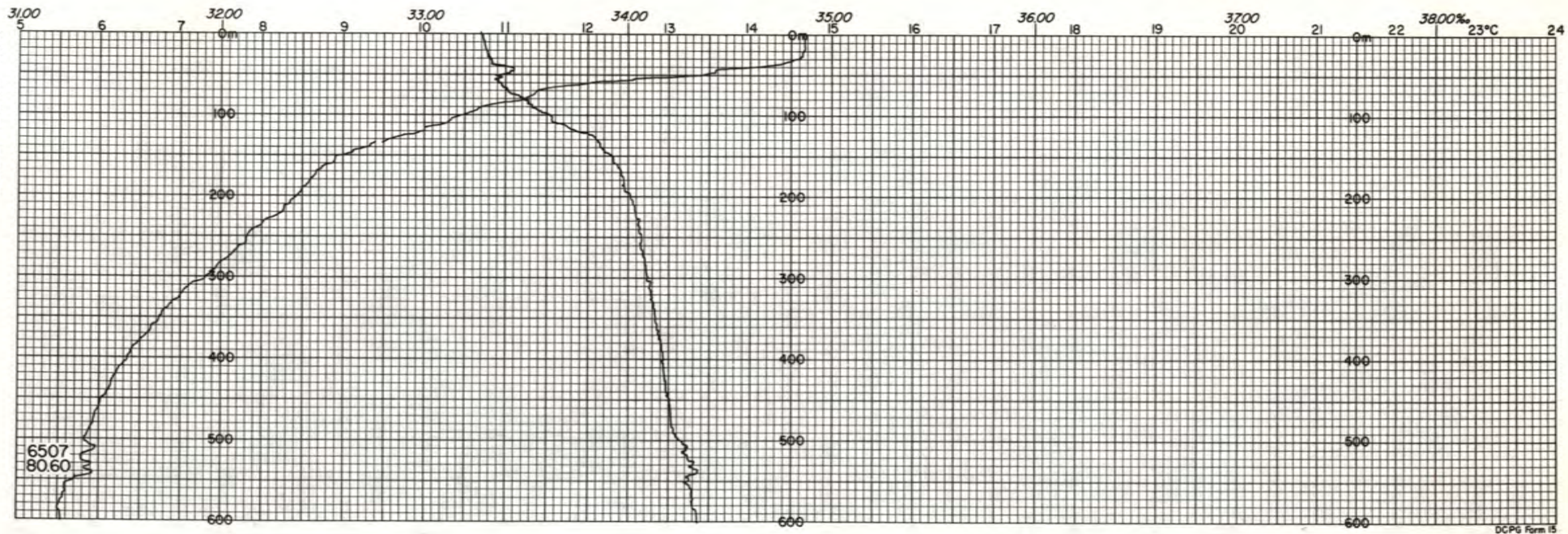
57



DCPG Form 15

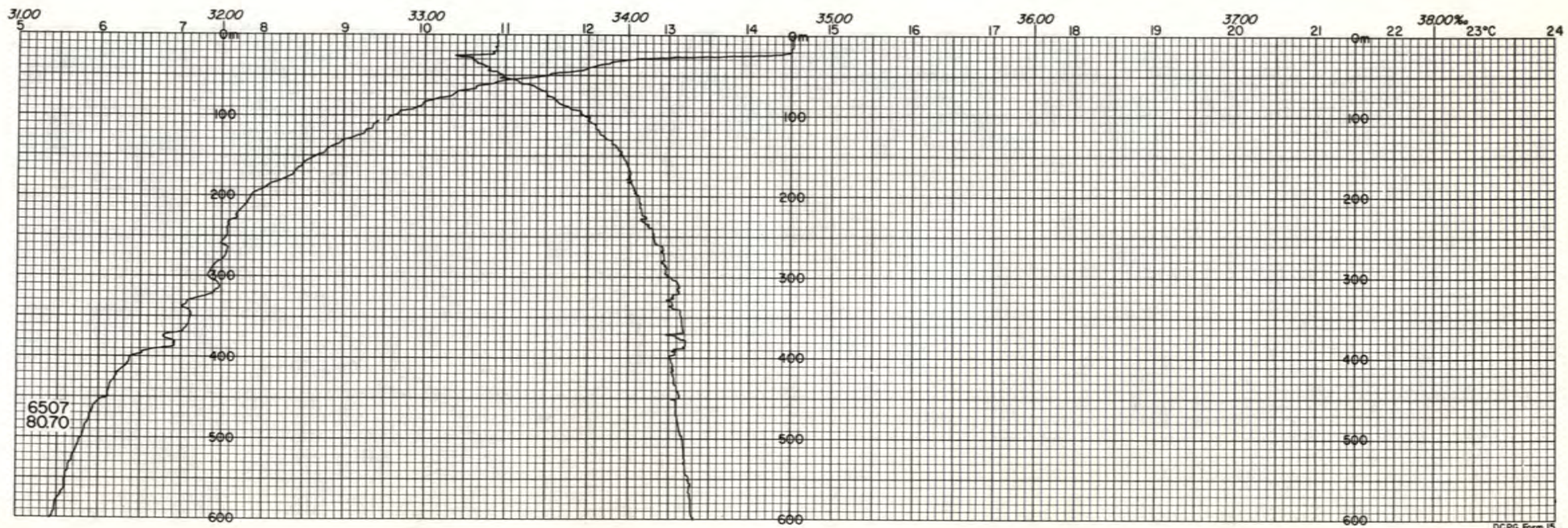


SIO CCOFI 6507

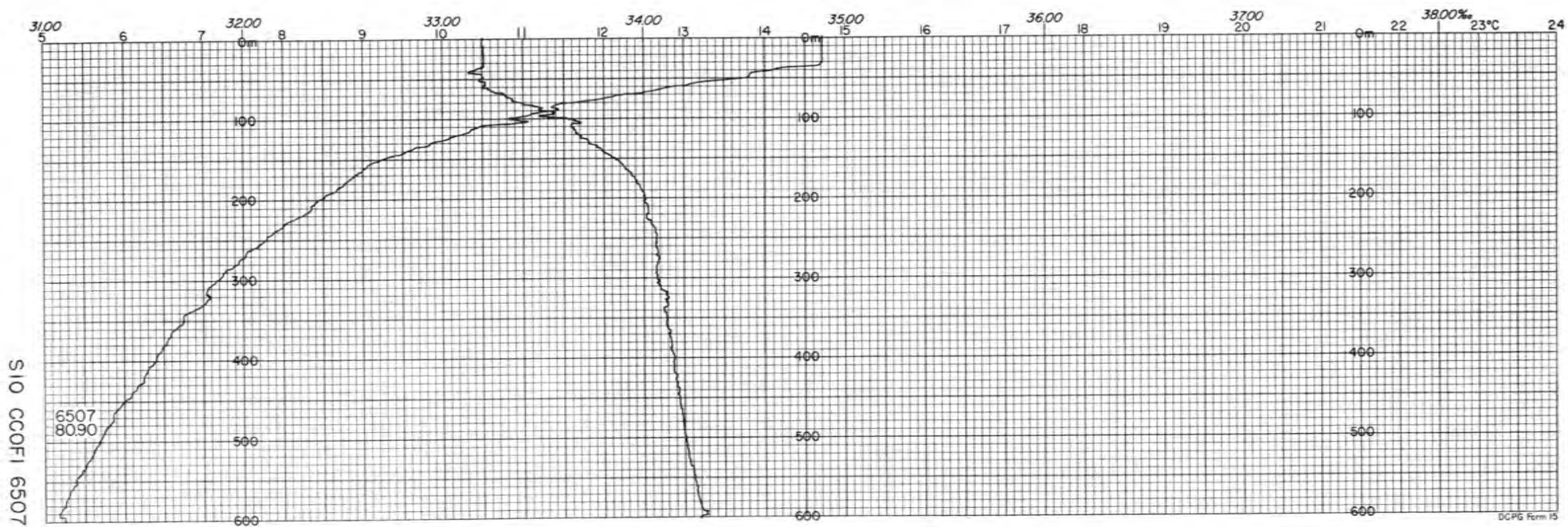
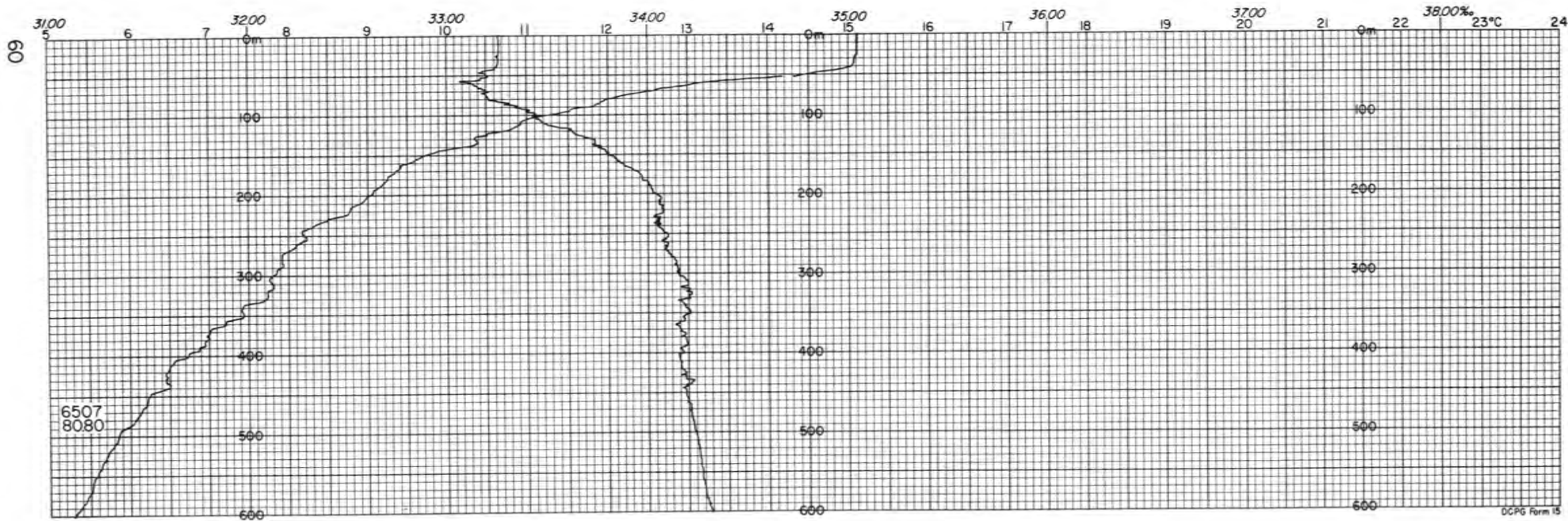


DCPG Form 15

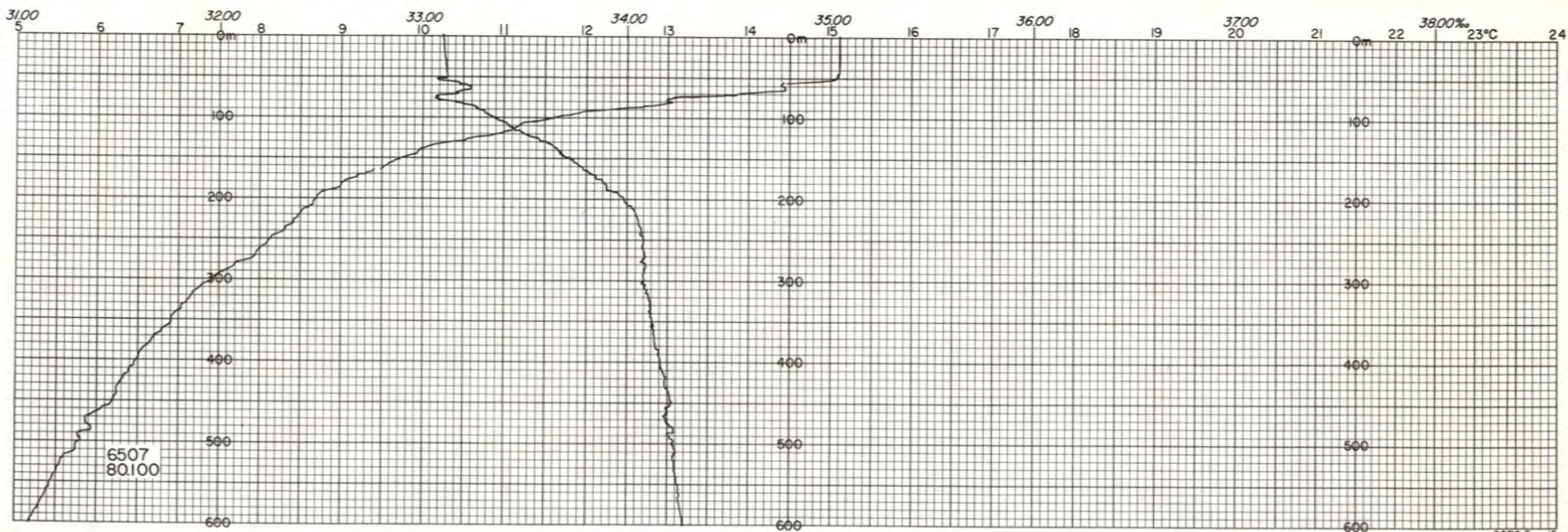
59



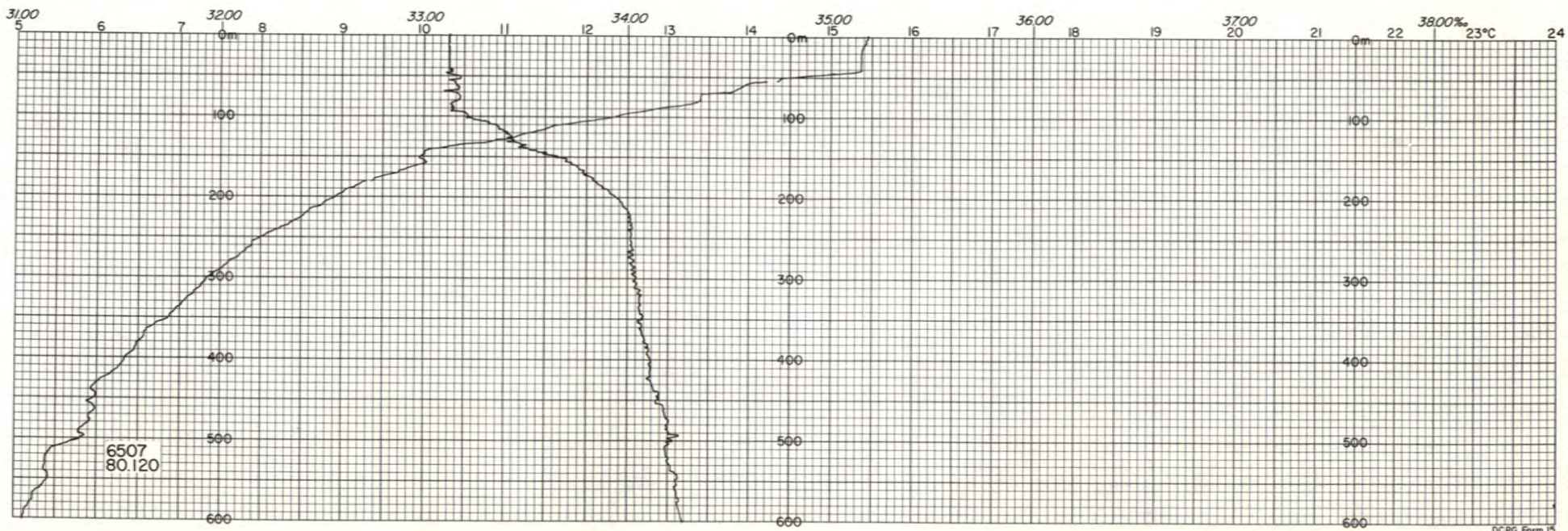
DCPG Form 15

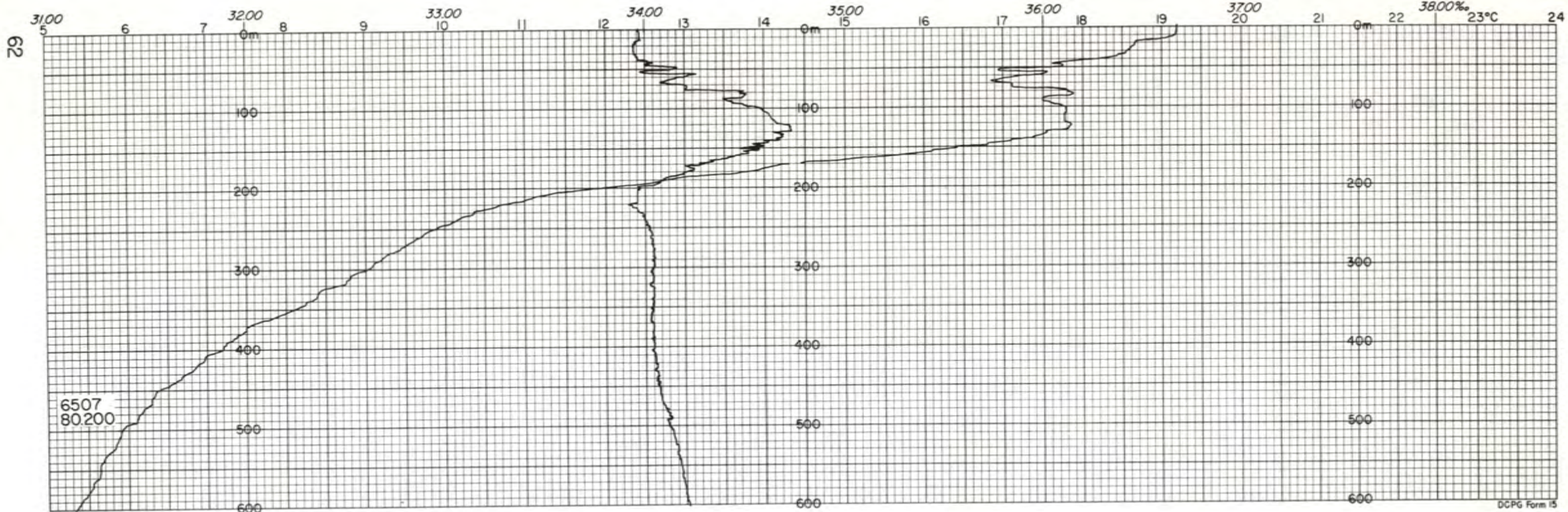


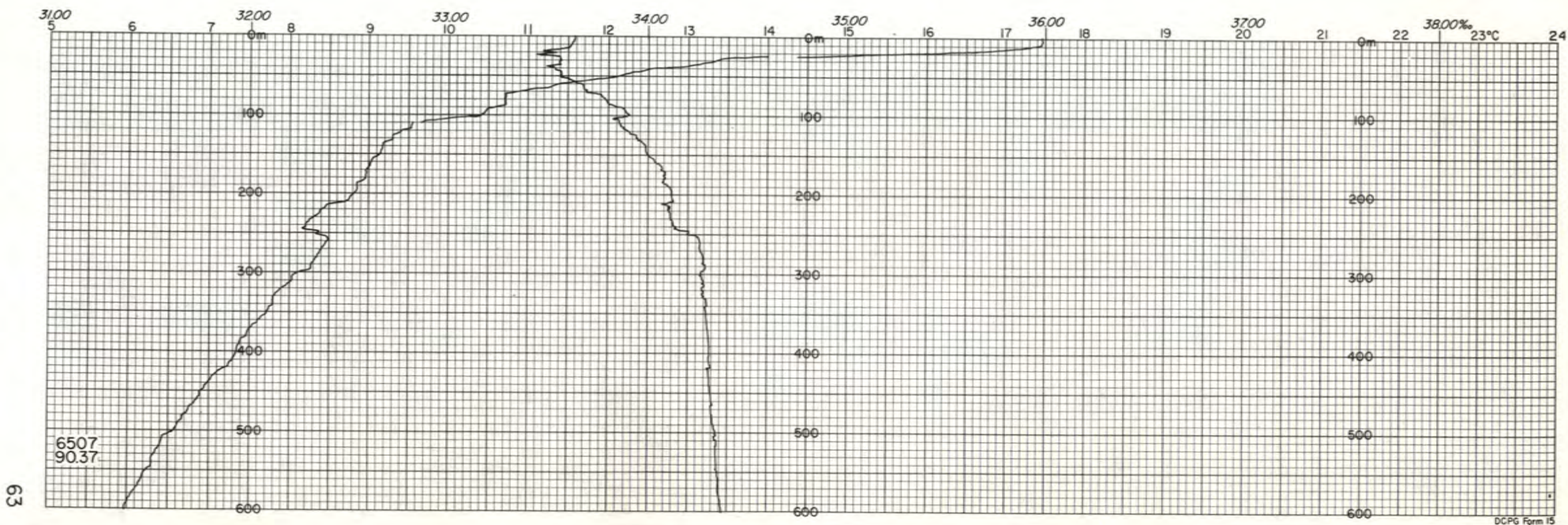
S10 CCOF1 6507

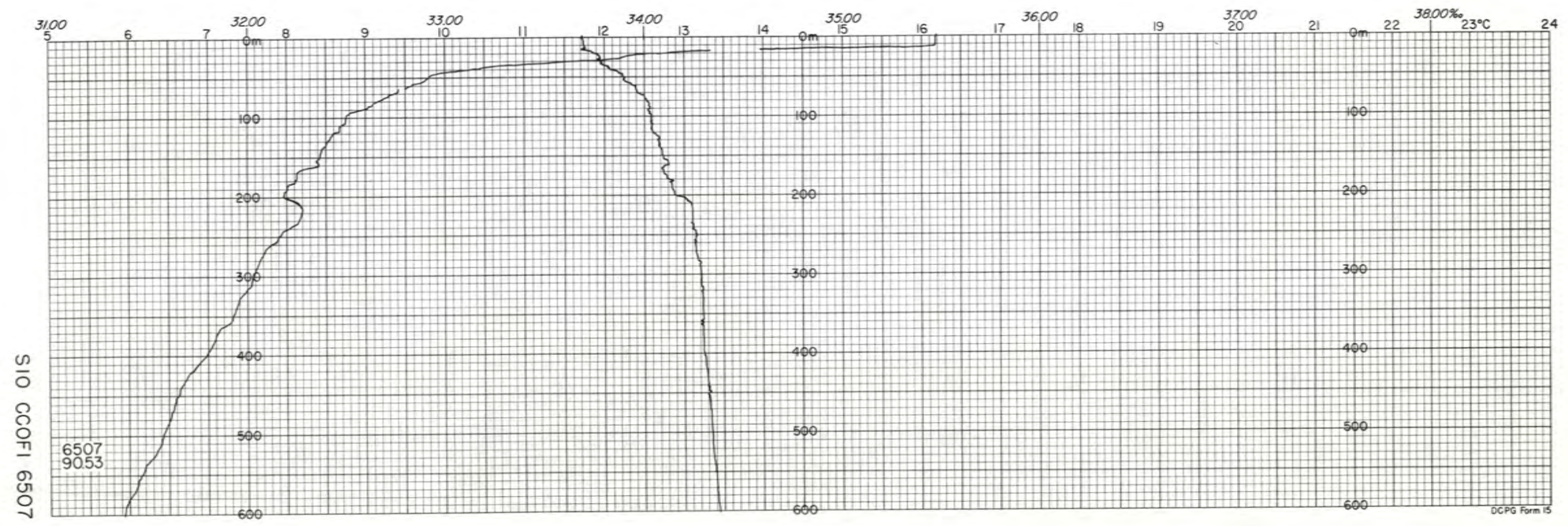
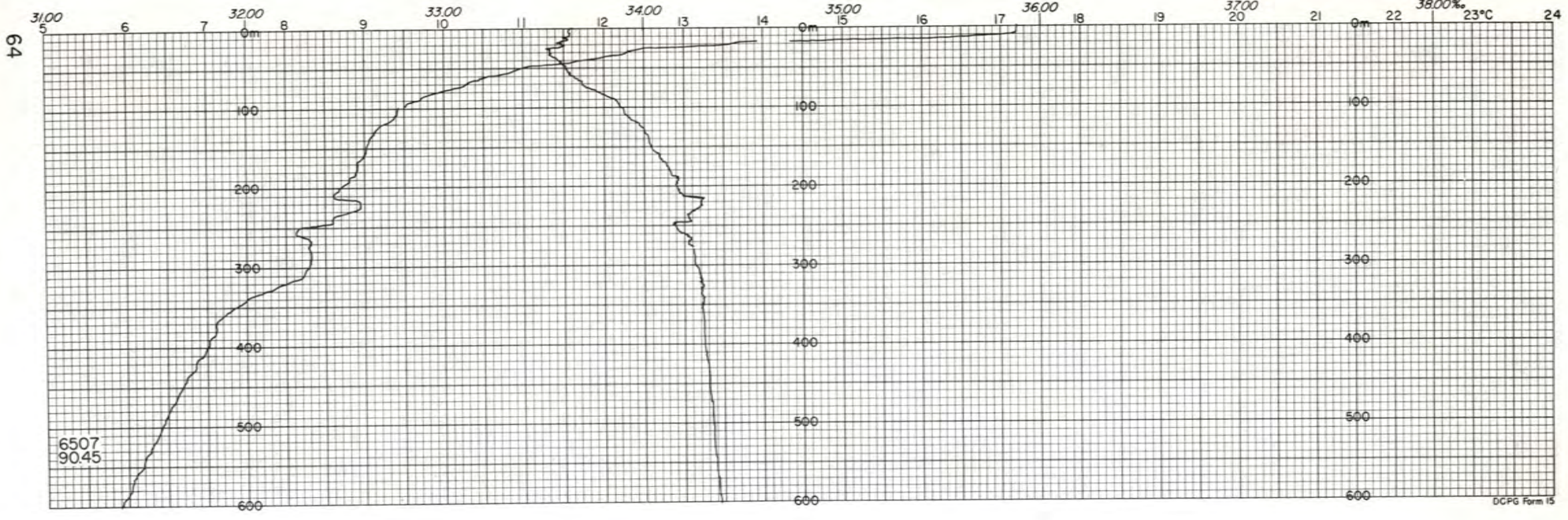


9

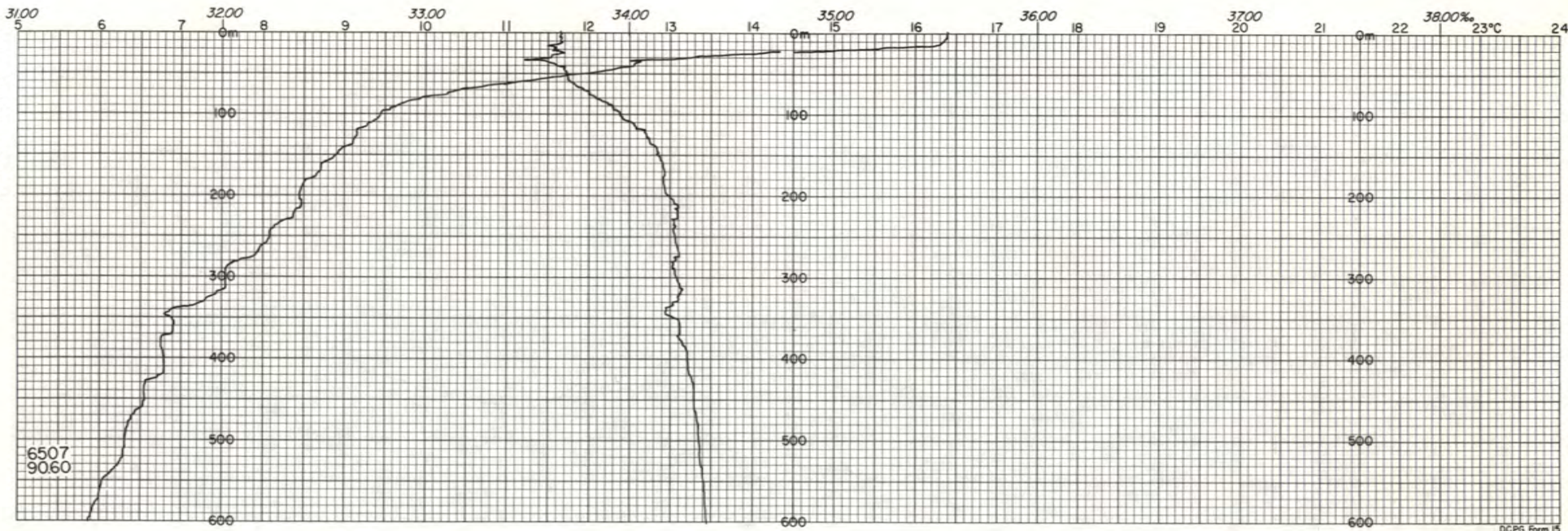




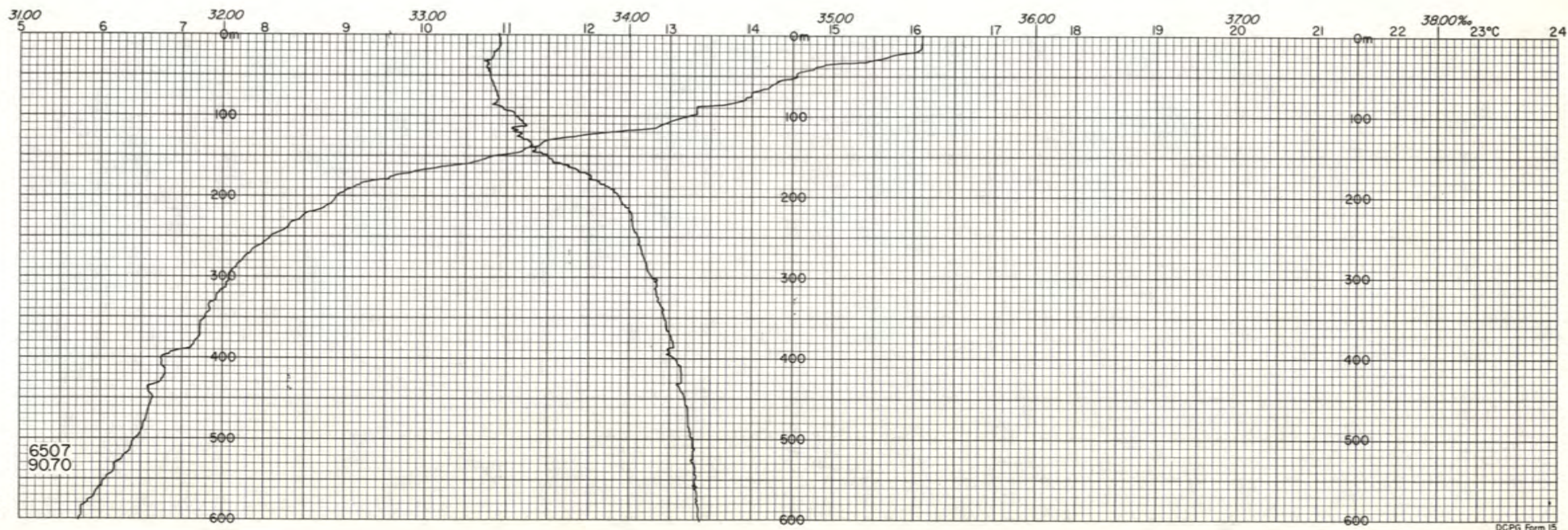


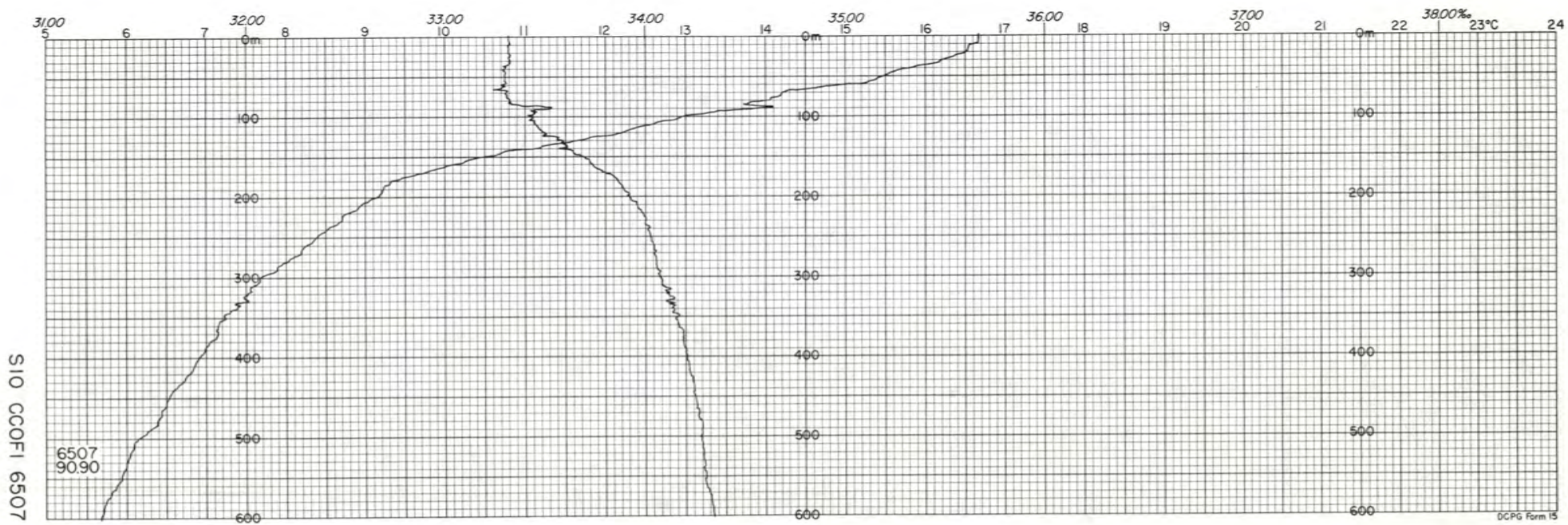
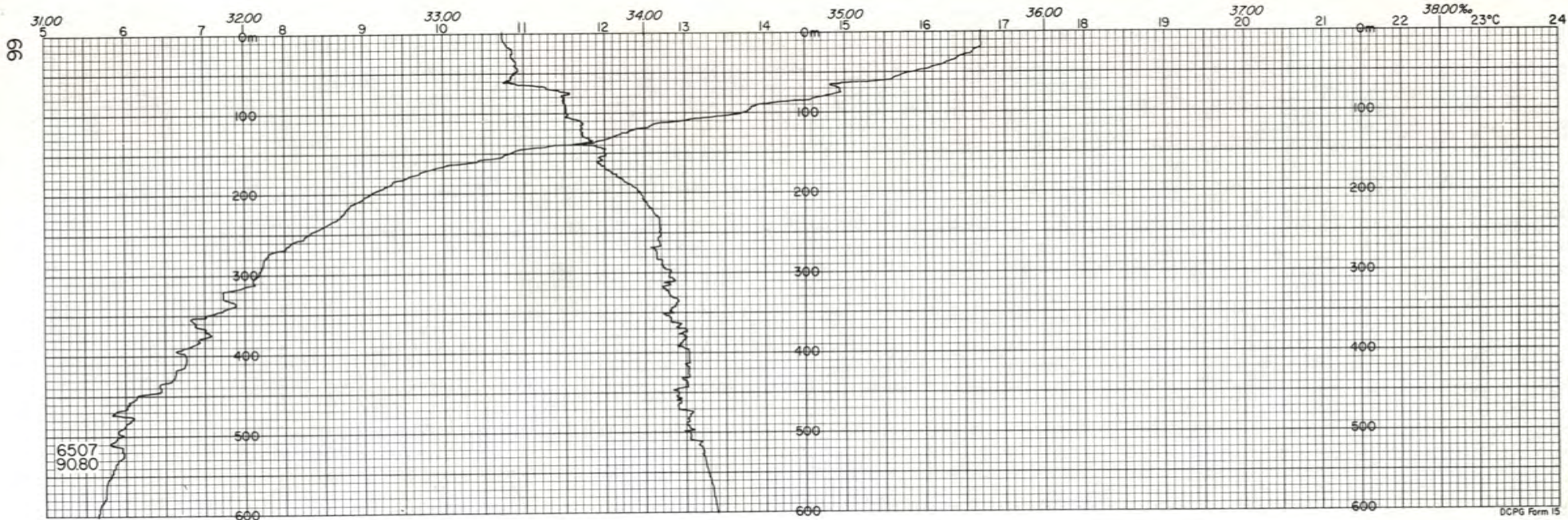


SIO CCOFI 6507

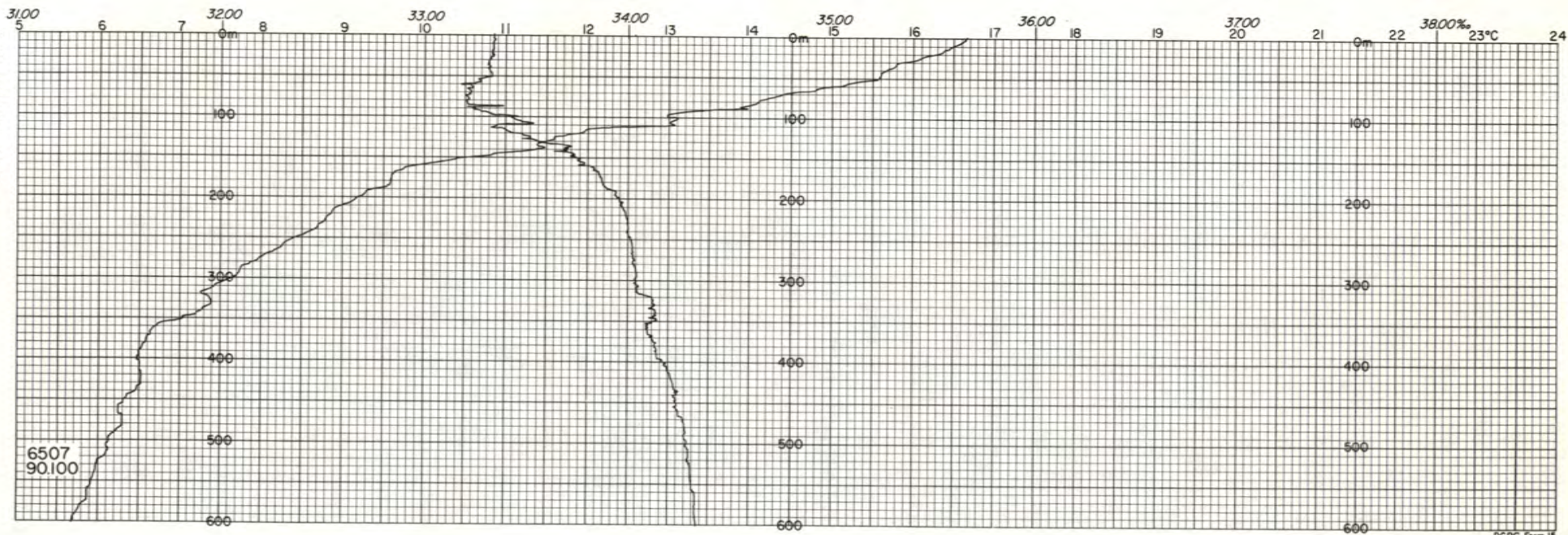


65

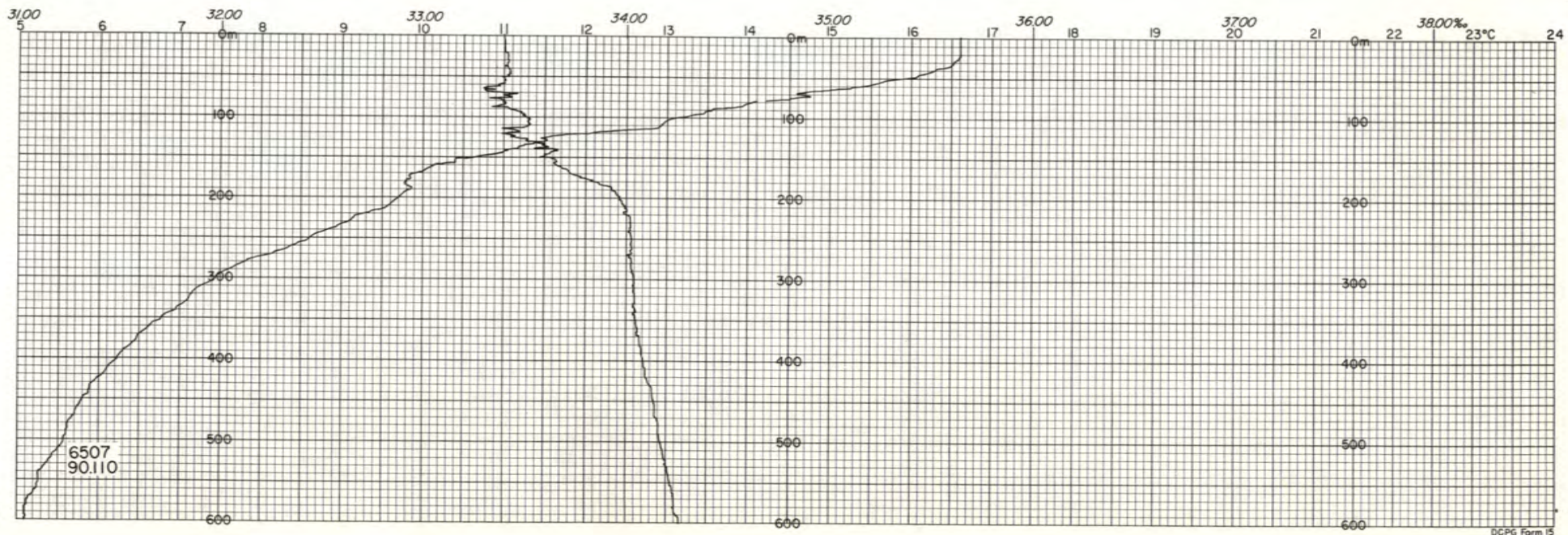


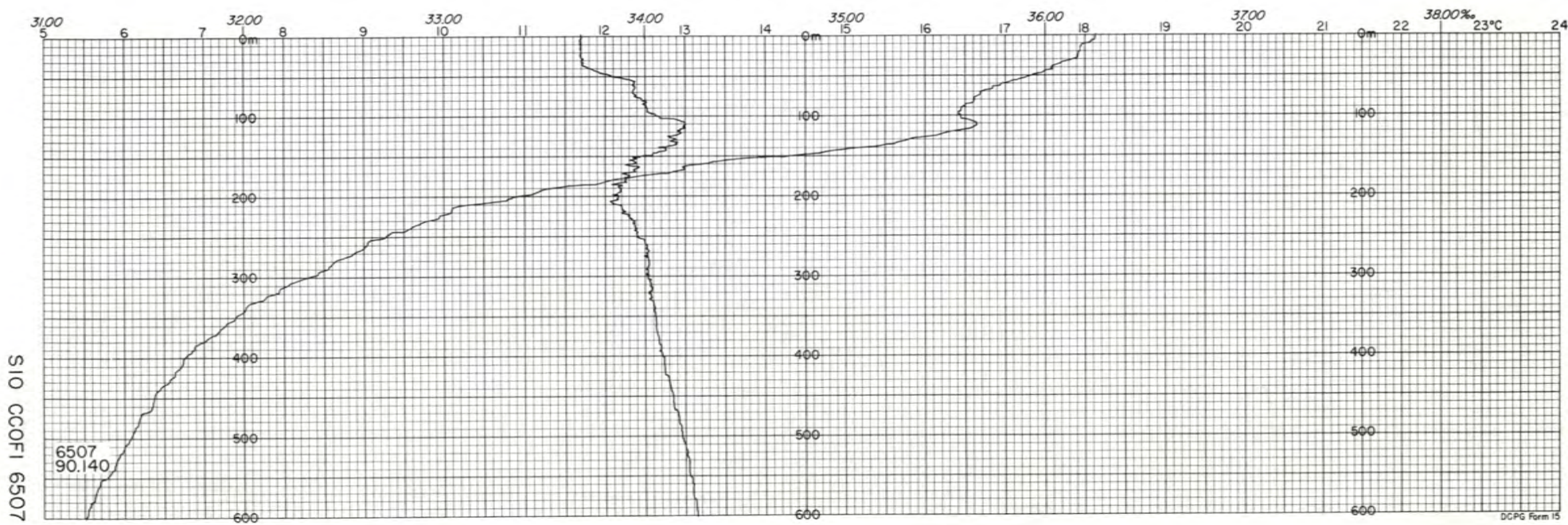
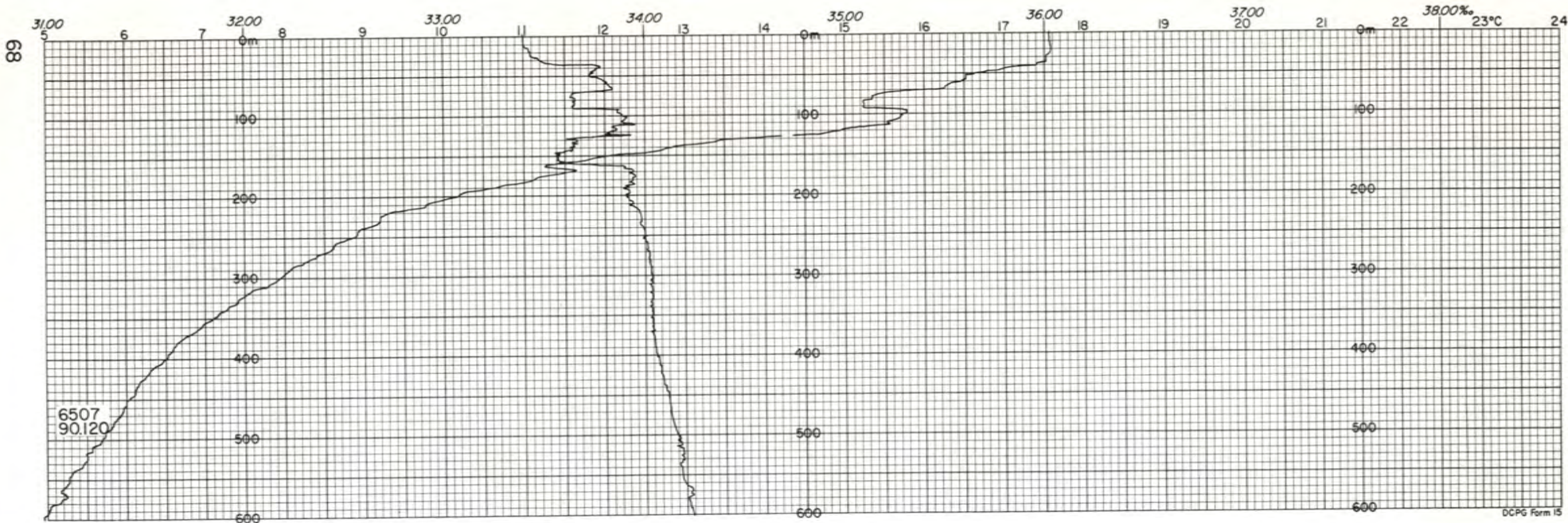


S10 CCOFI 6507

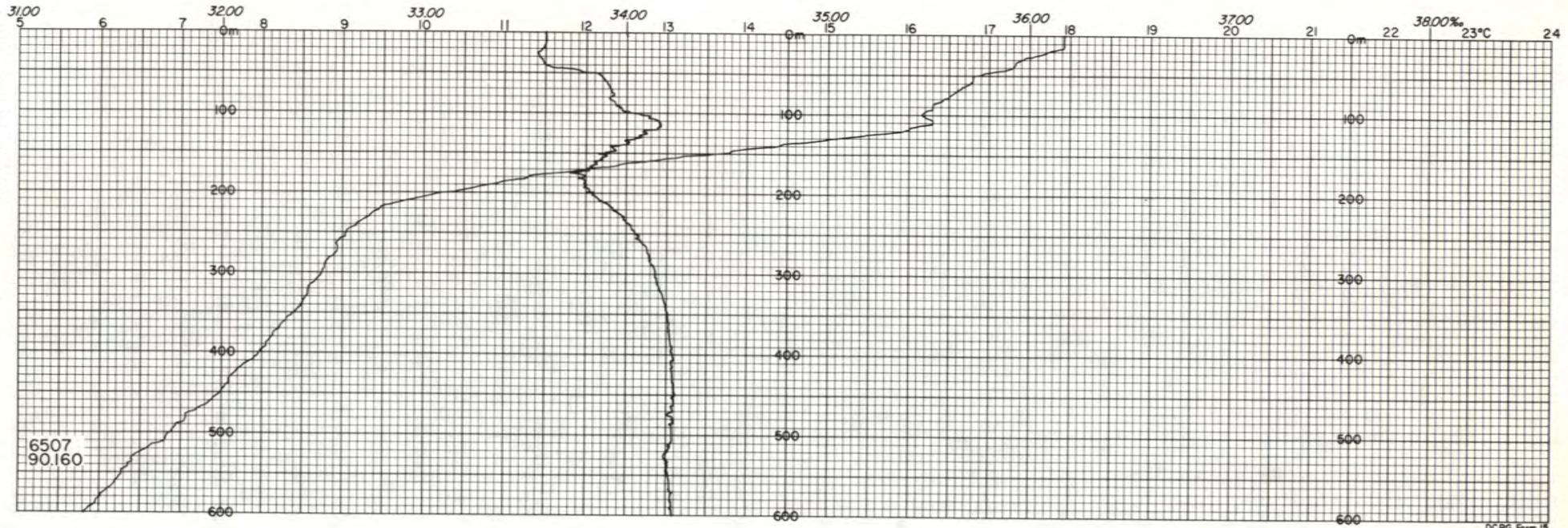


67

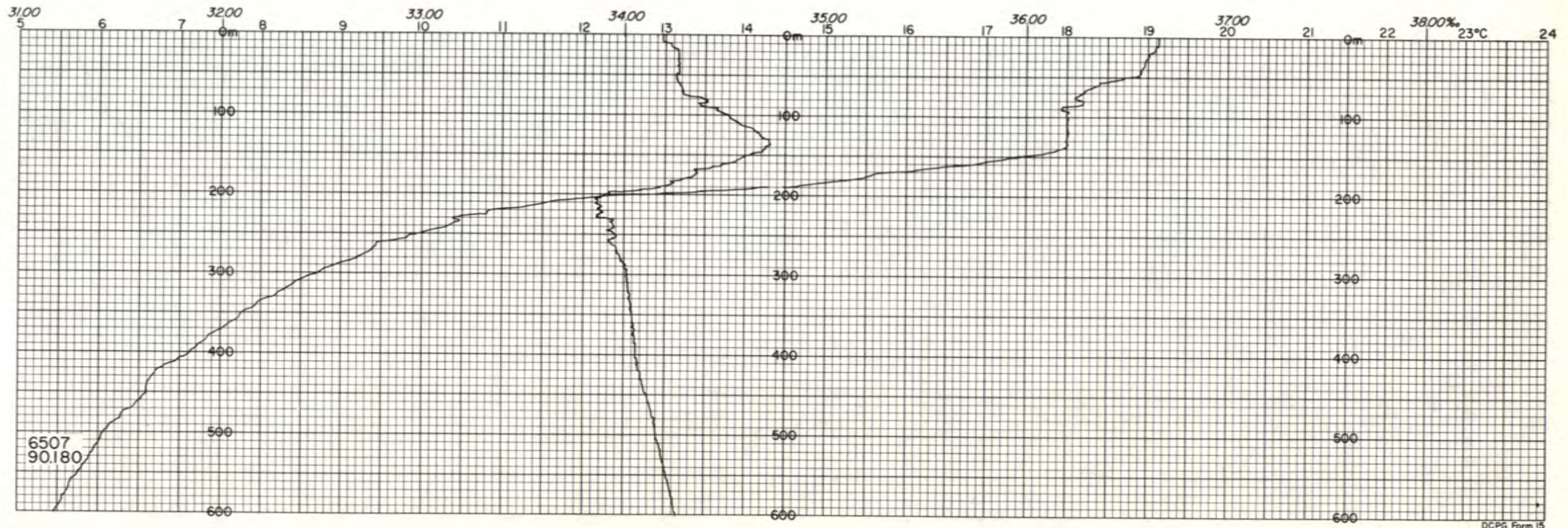


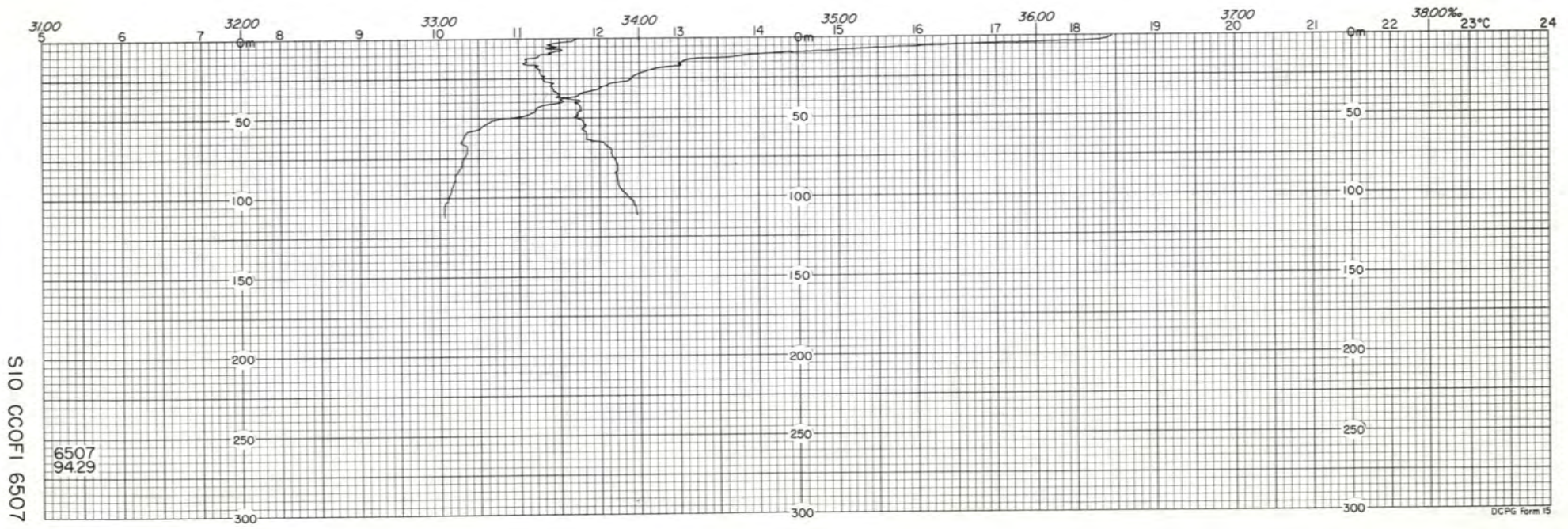
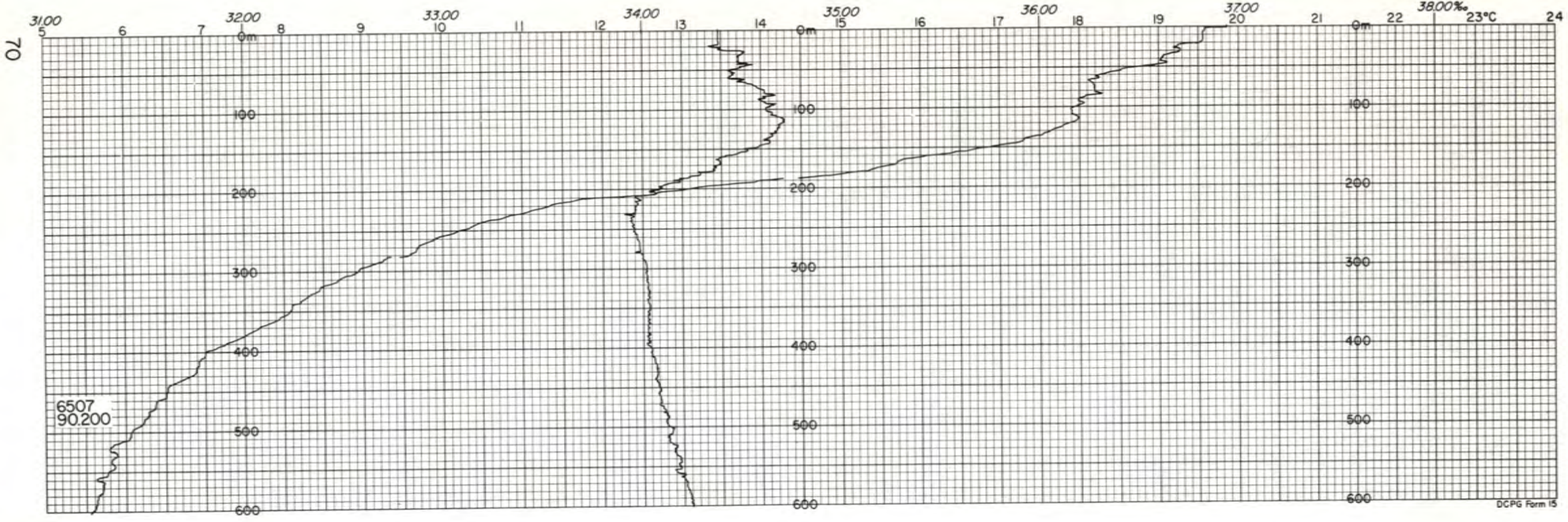


SIO CCOFI 6507

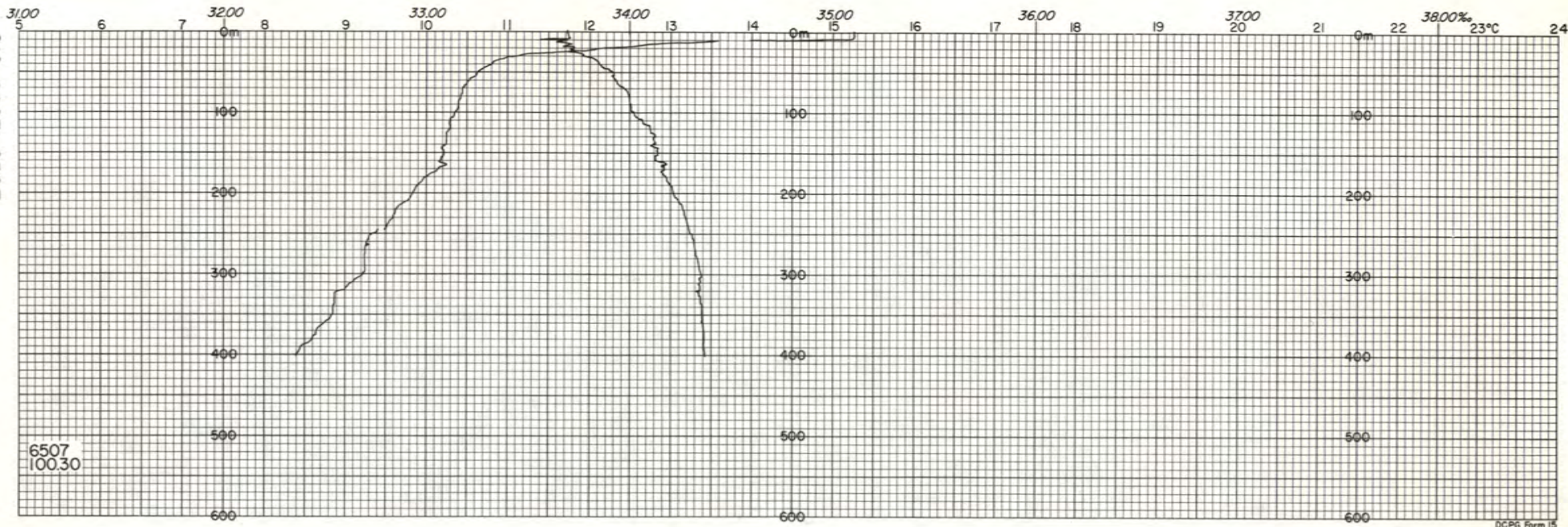


69

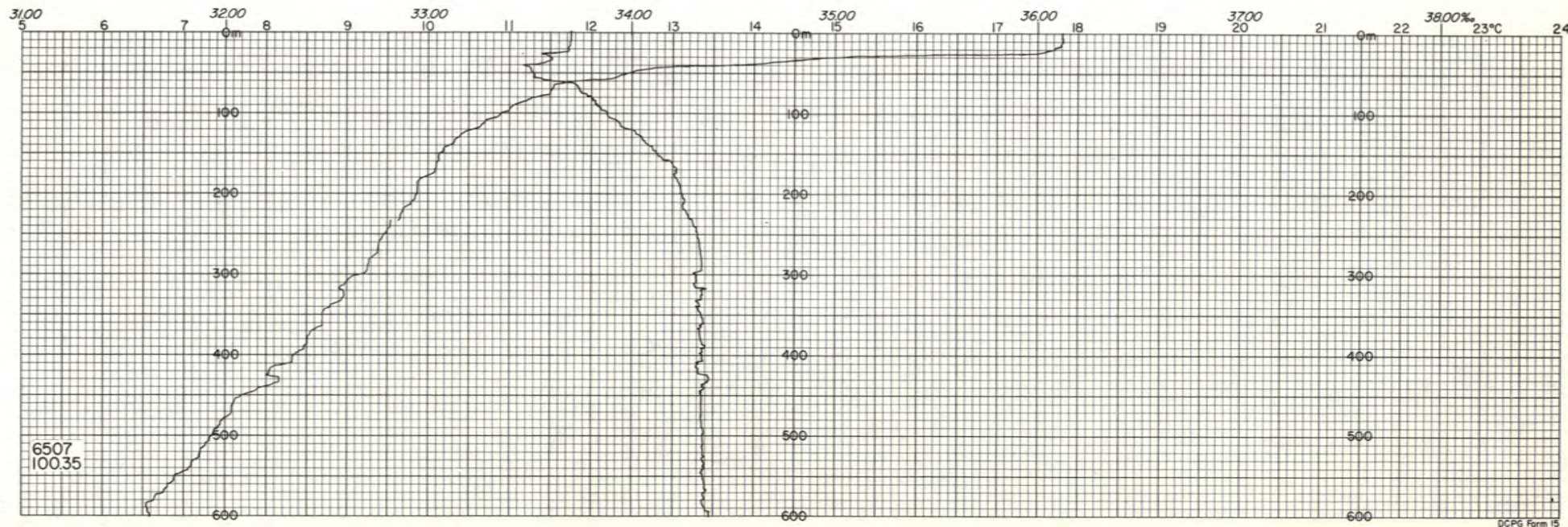


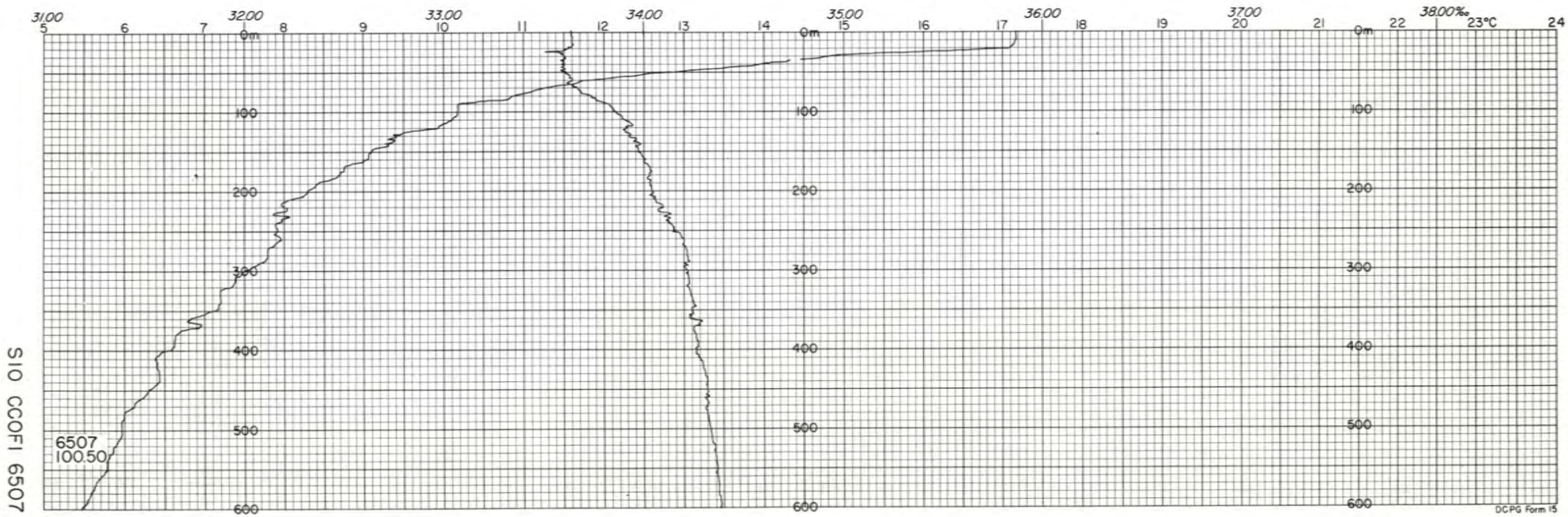
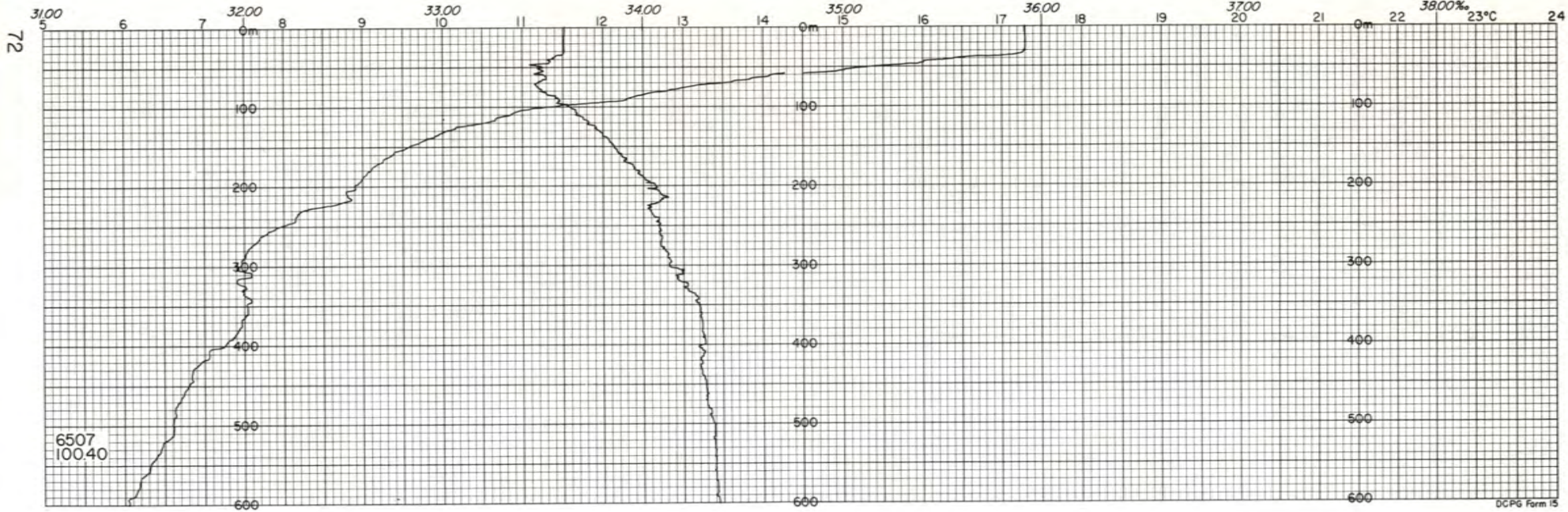


SIO CCOFI 6507

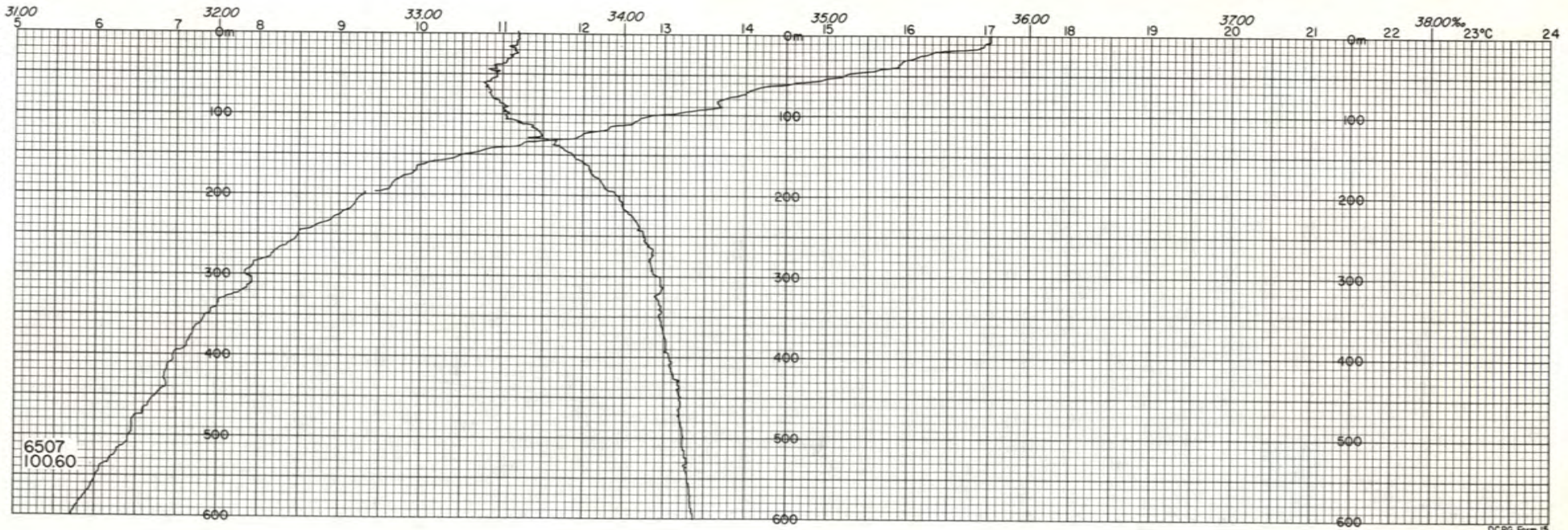


71



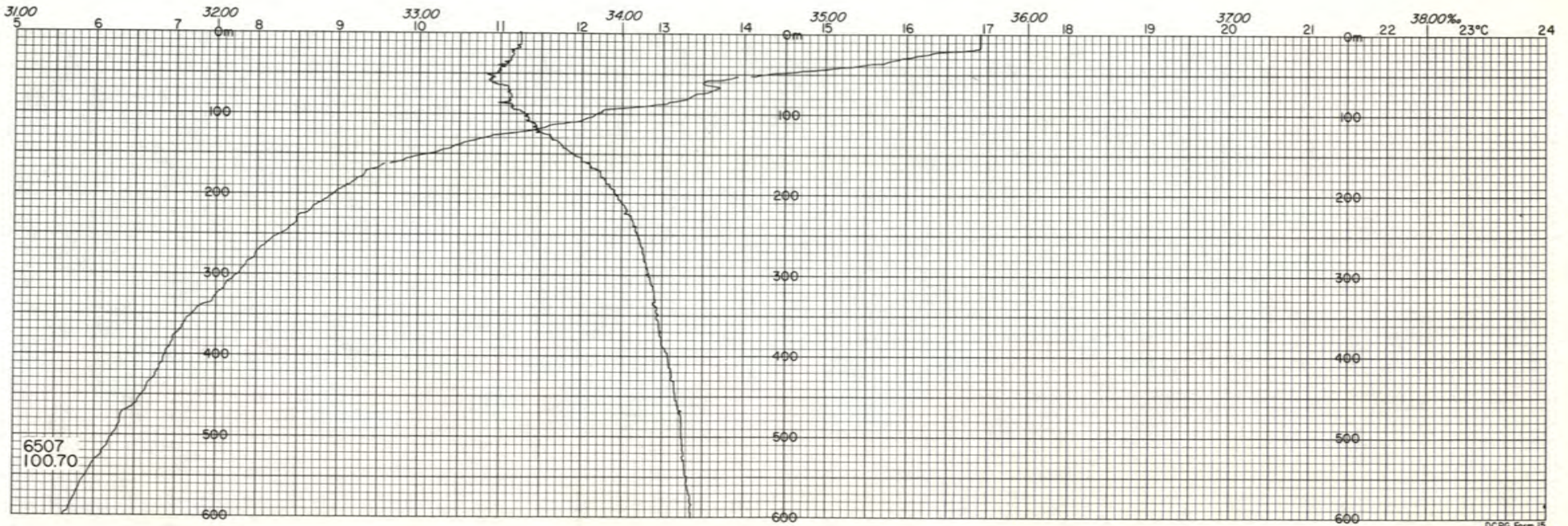


S10 CCOFI 6507

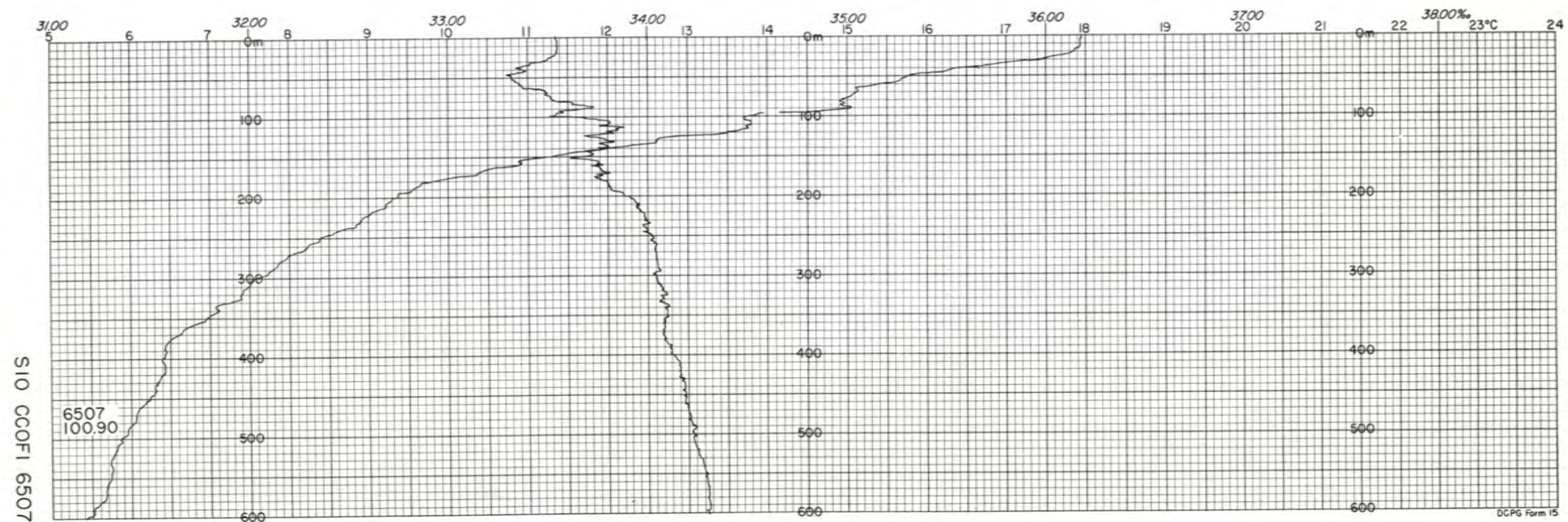
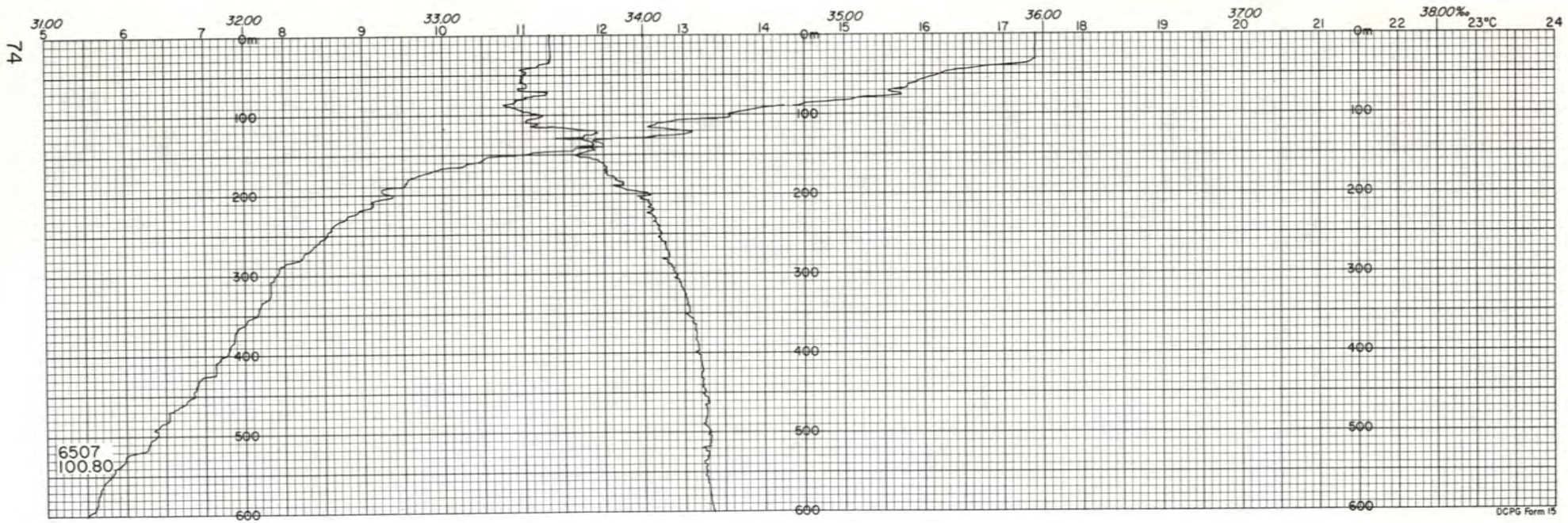


DCPG Form 15

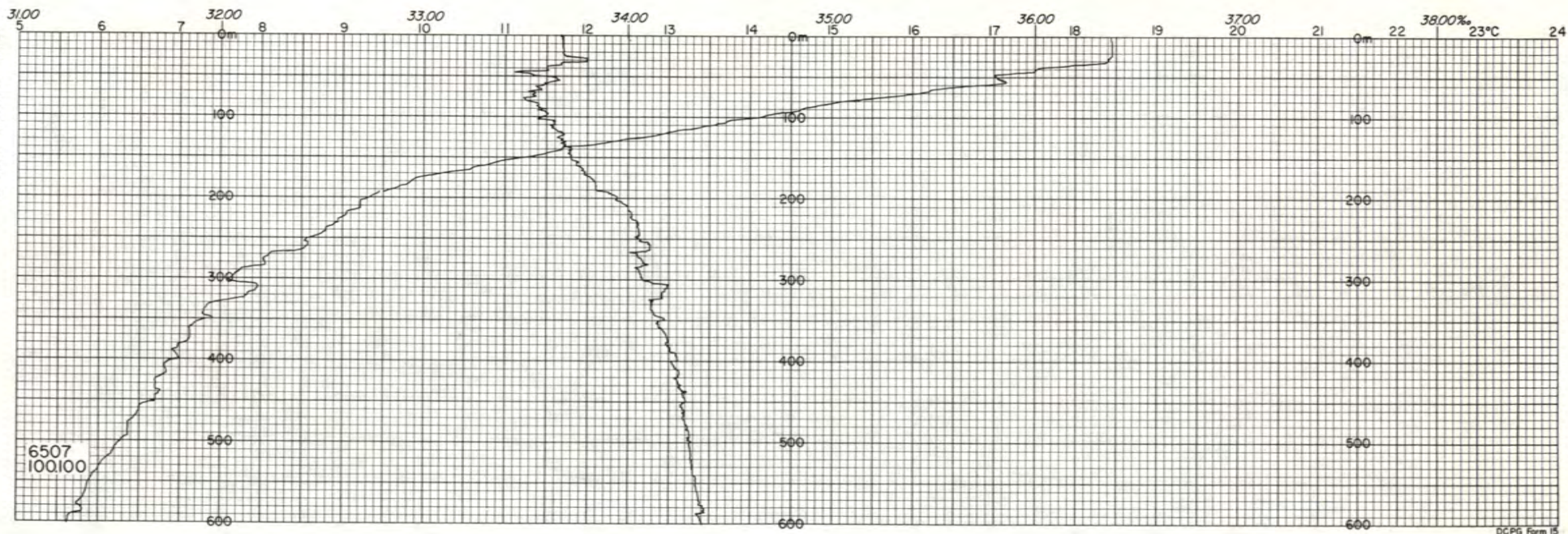
73



DCPG Form 15

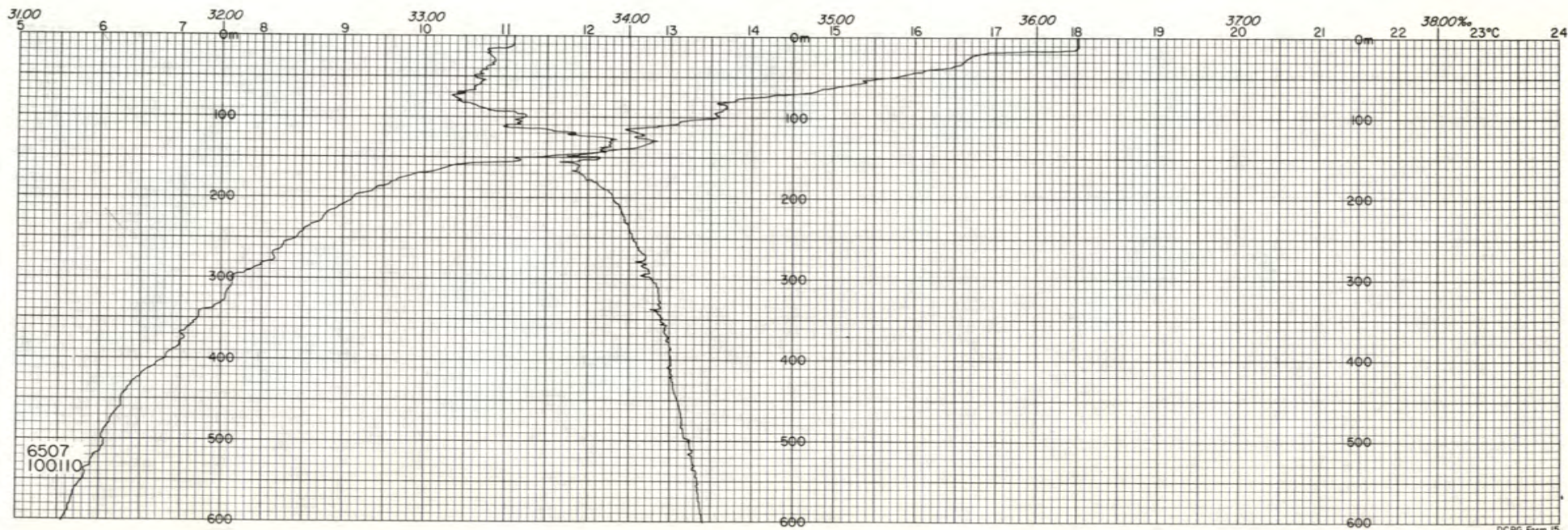


SIO CCOFI 6507

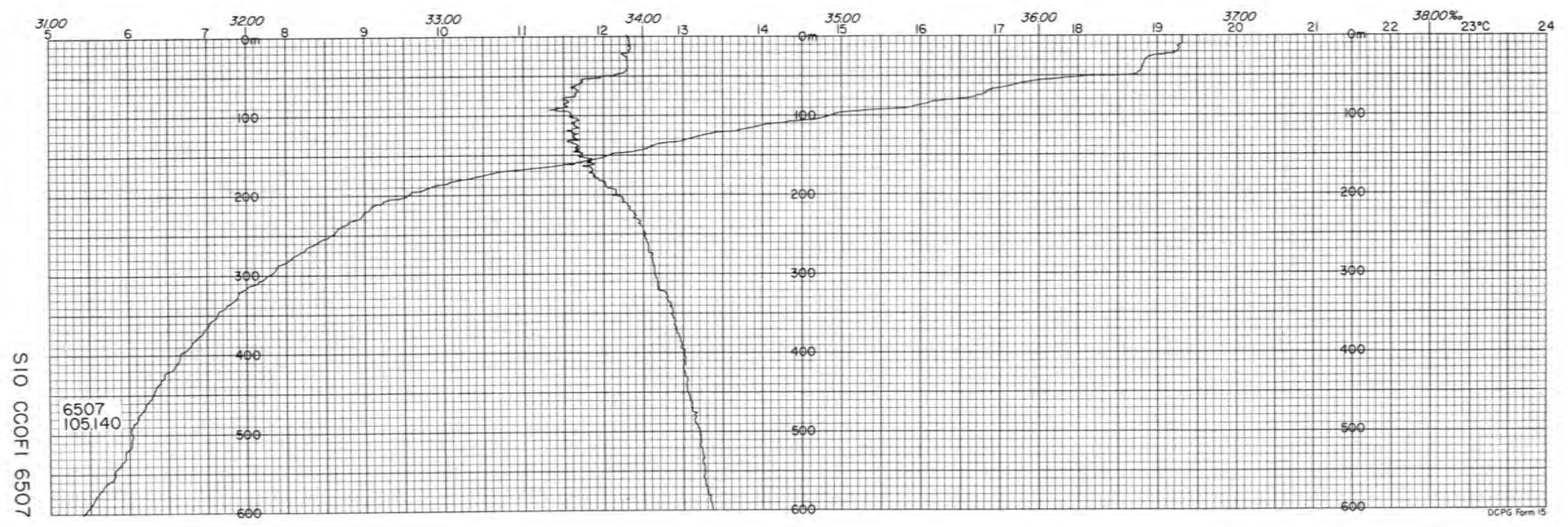
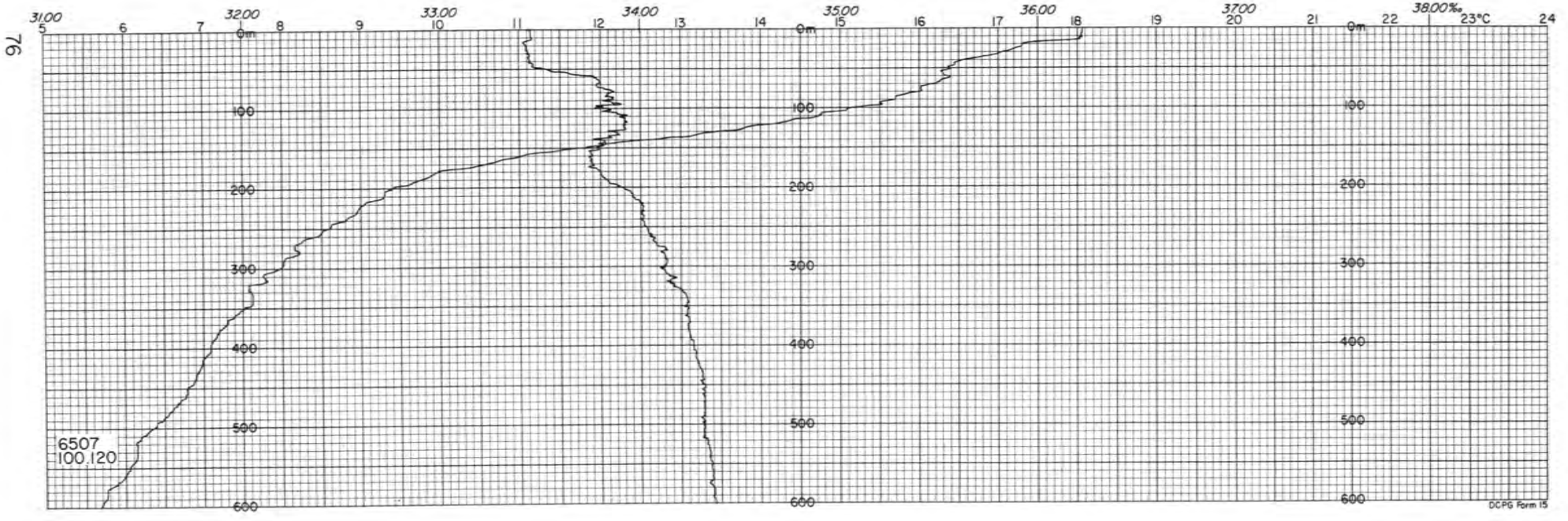


DCPG Form 15

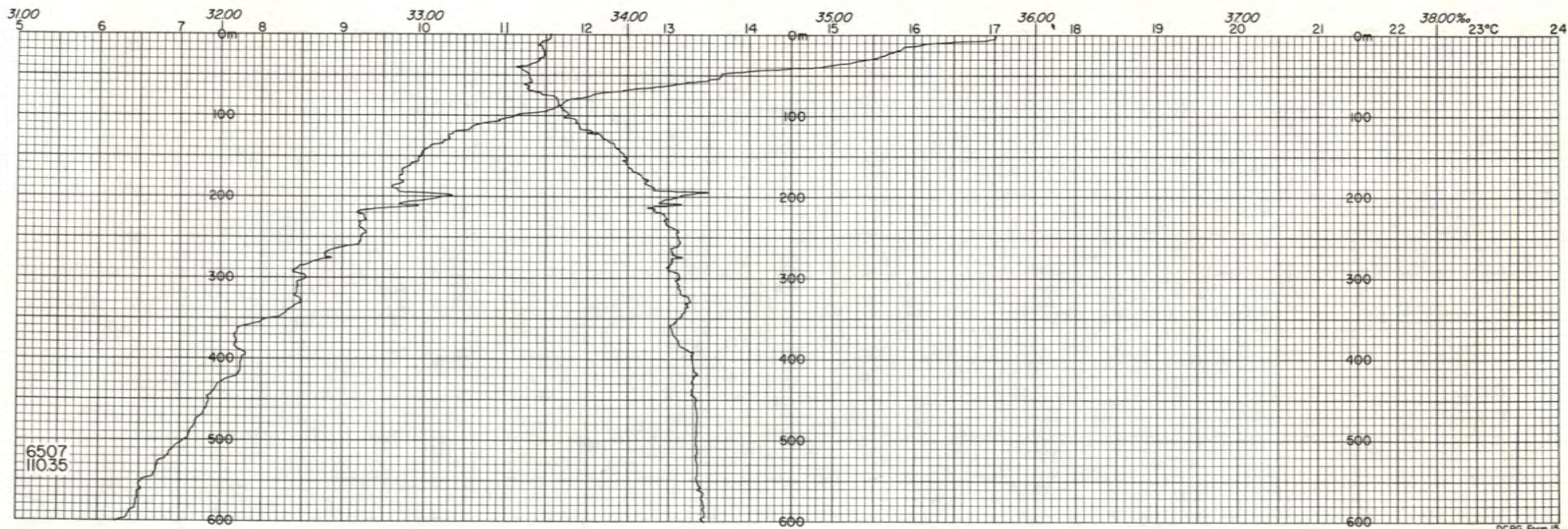
75



DCPG Form 15

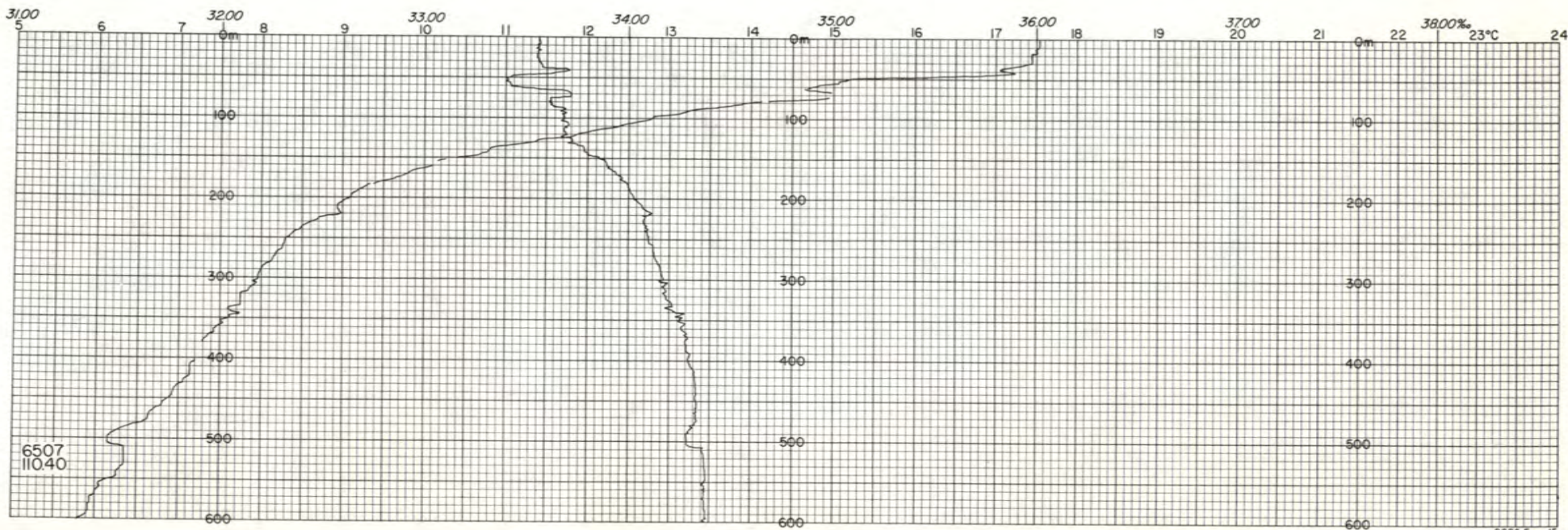


SIO CCOFI 6507

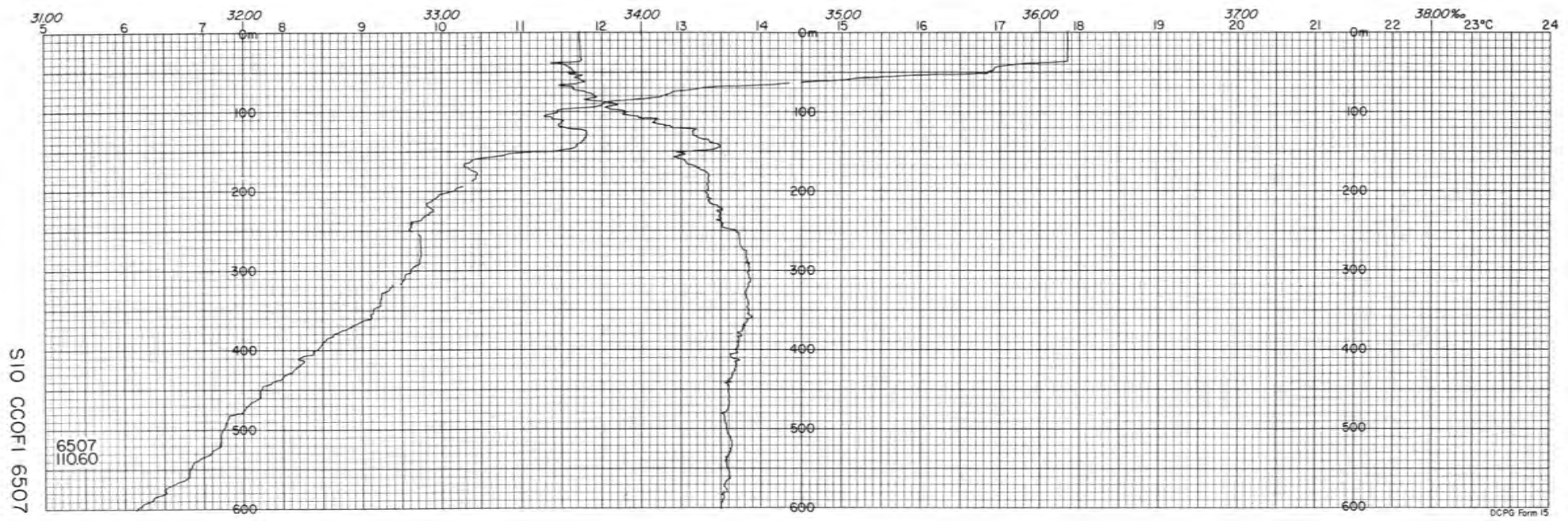
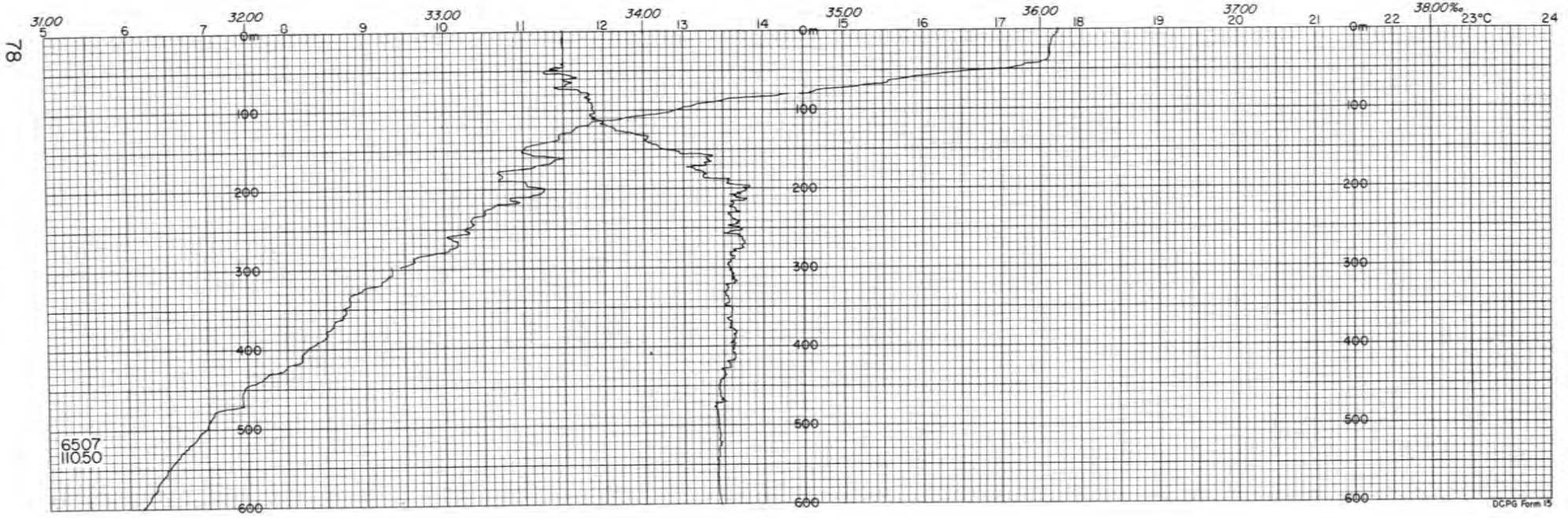


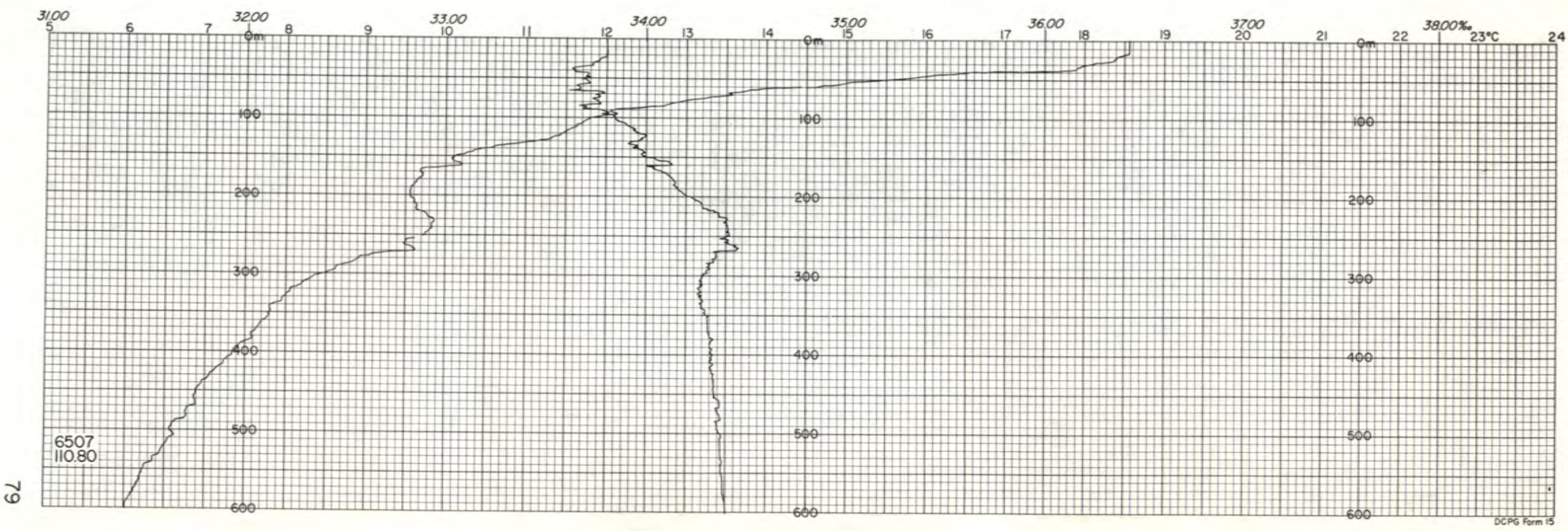
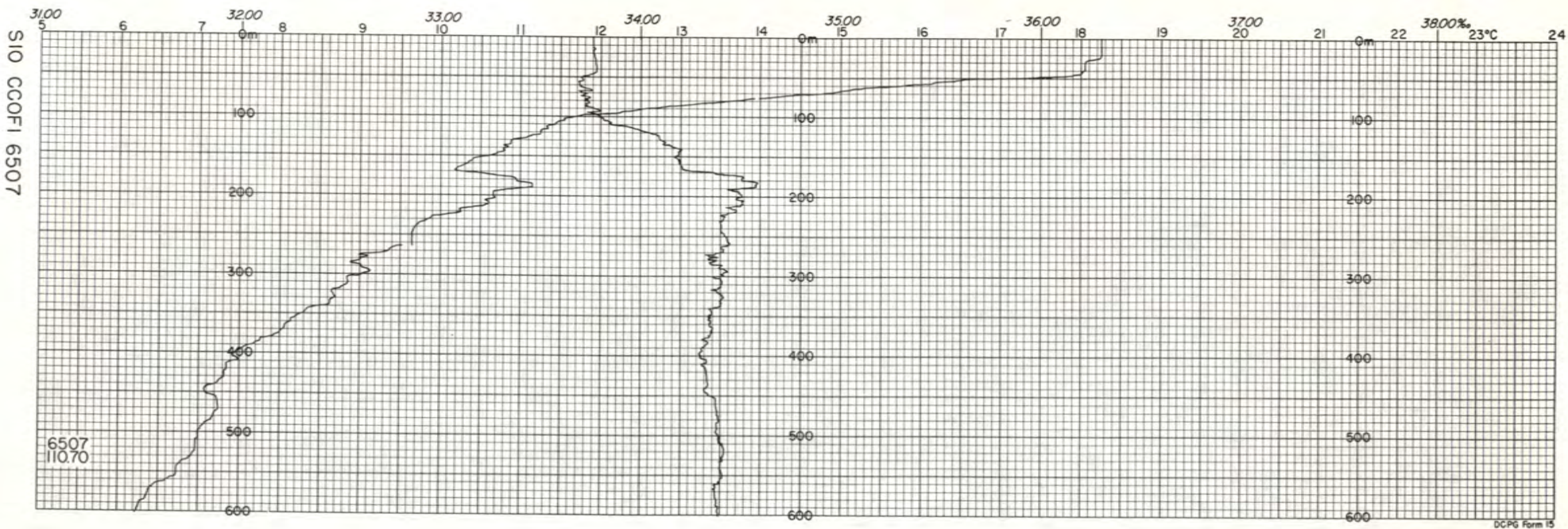
DCPG Form 15

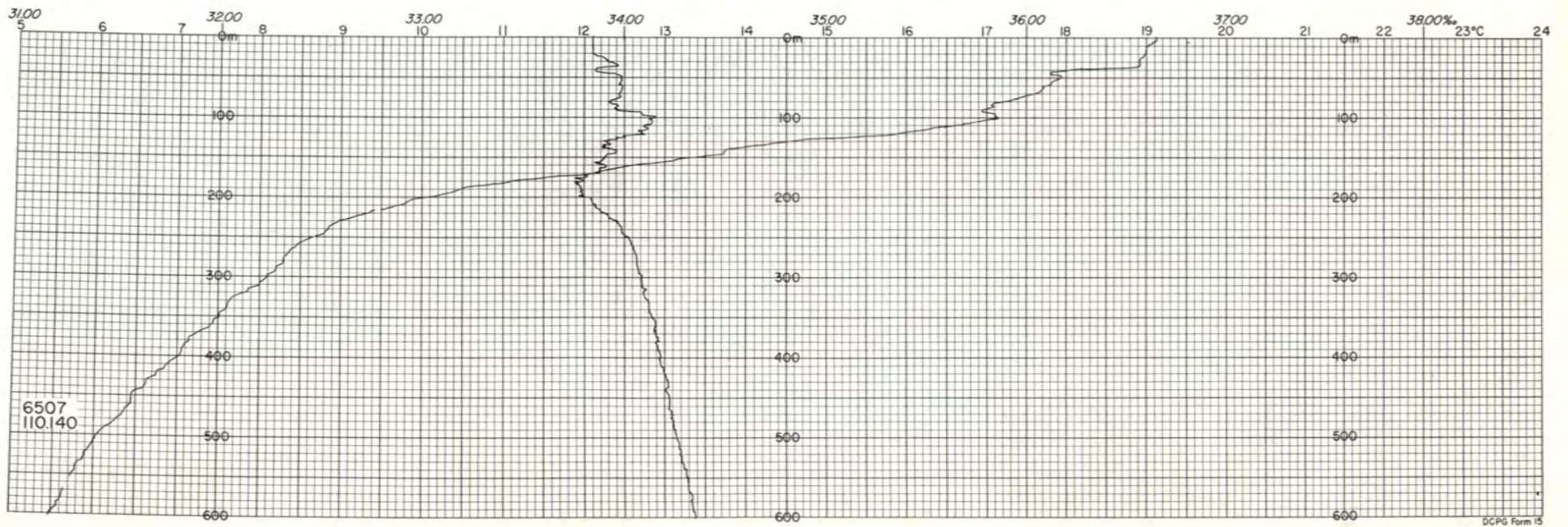
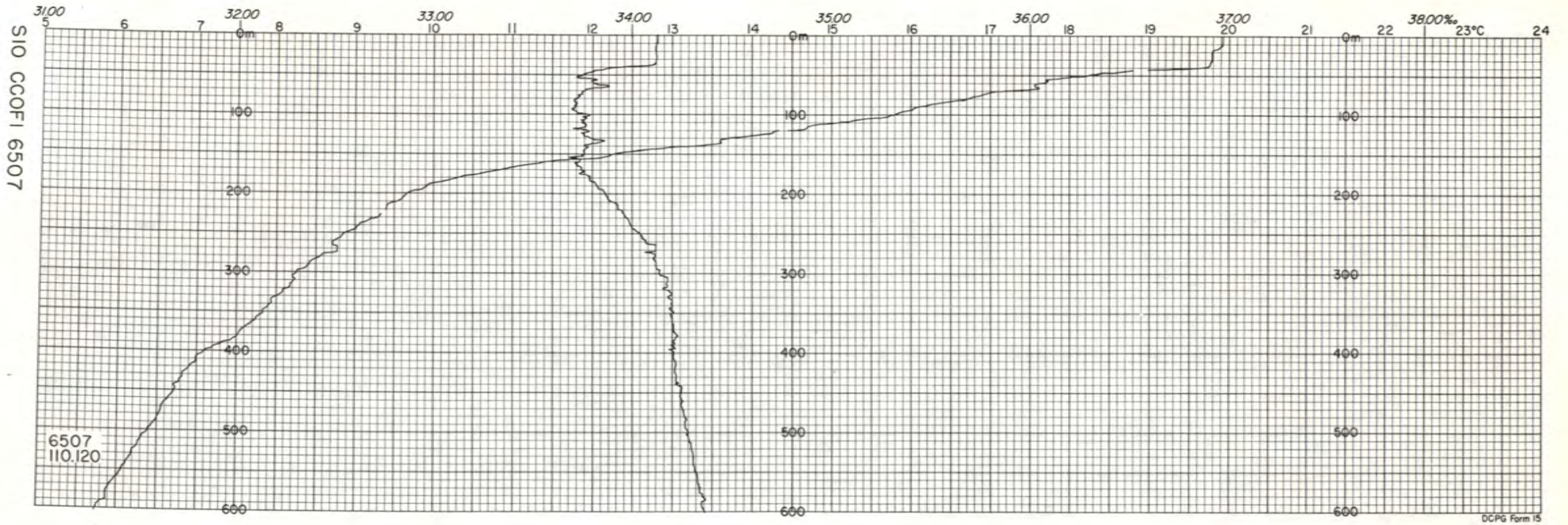
77

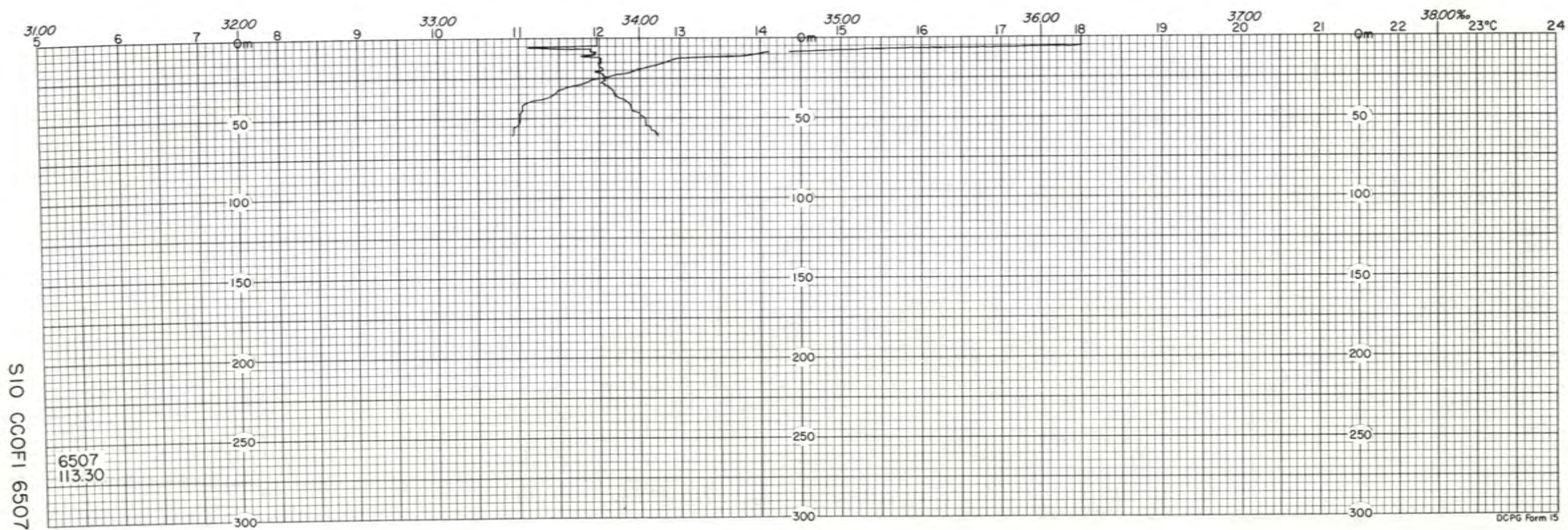
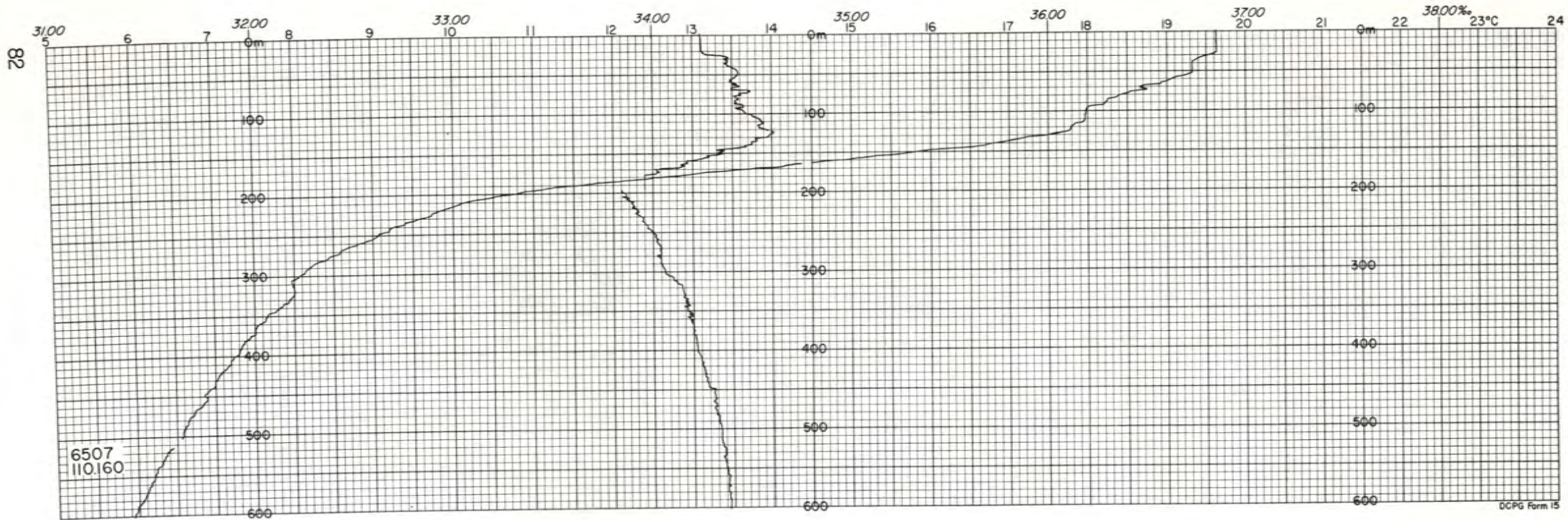


DCPG Form 15

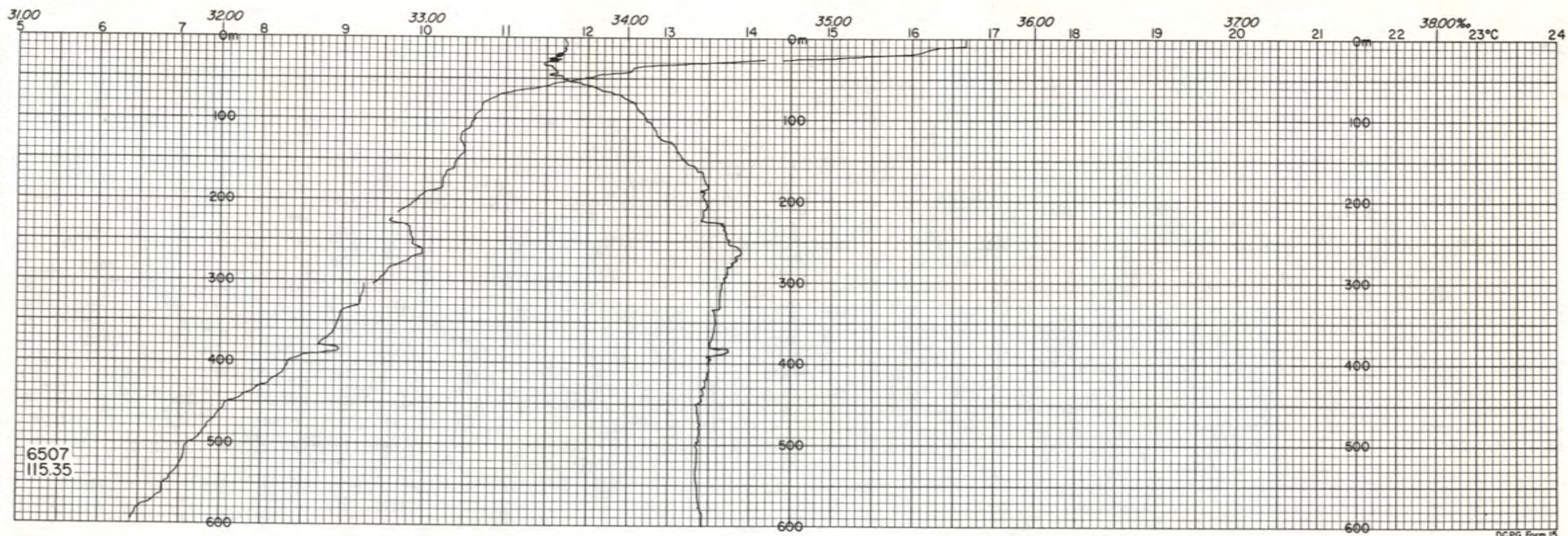






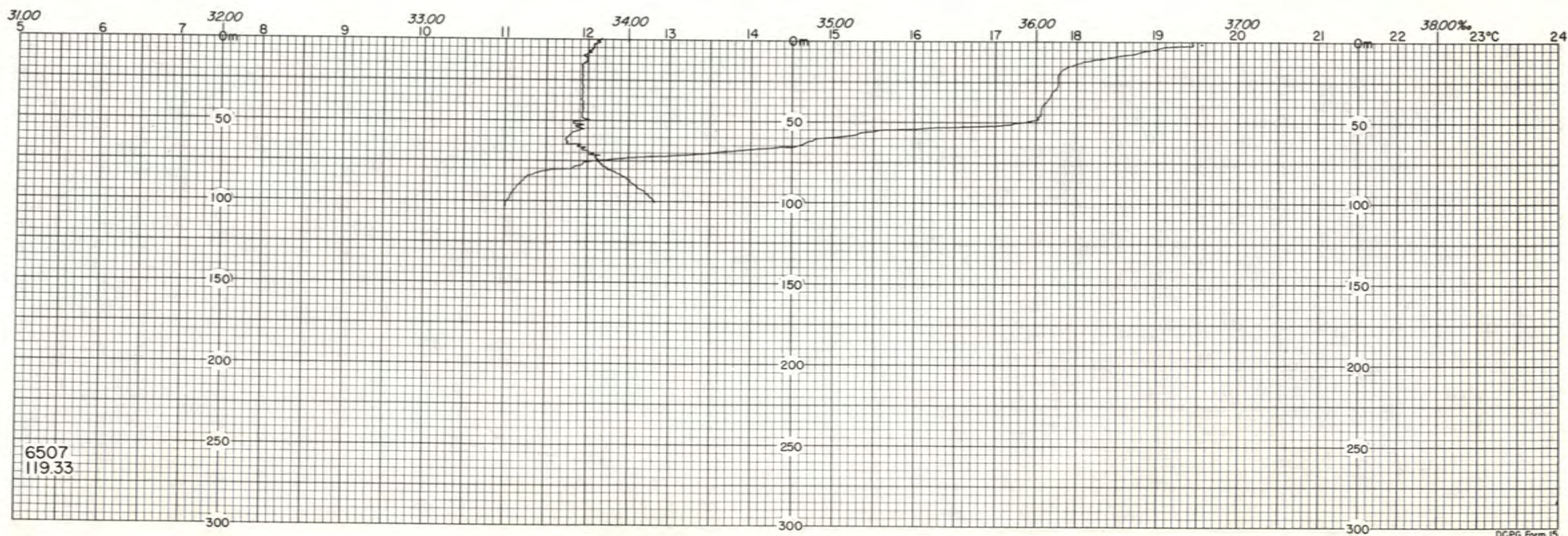


SIO CCOFI 6507

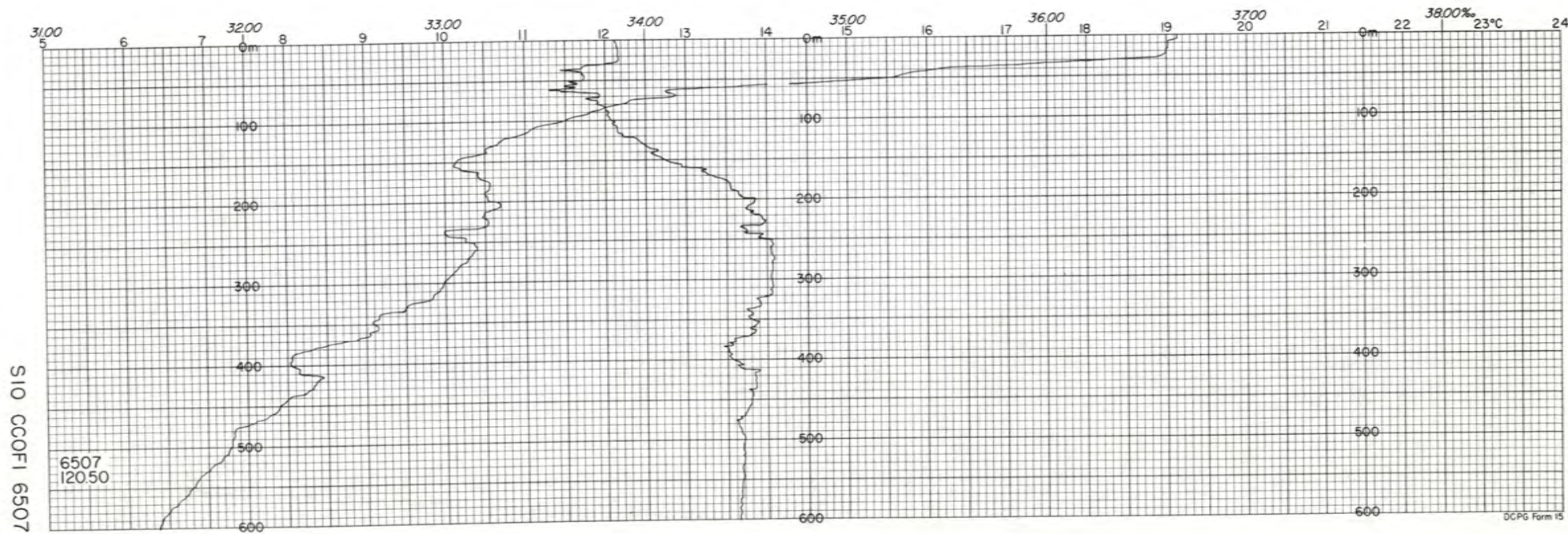
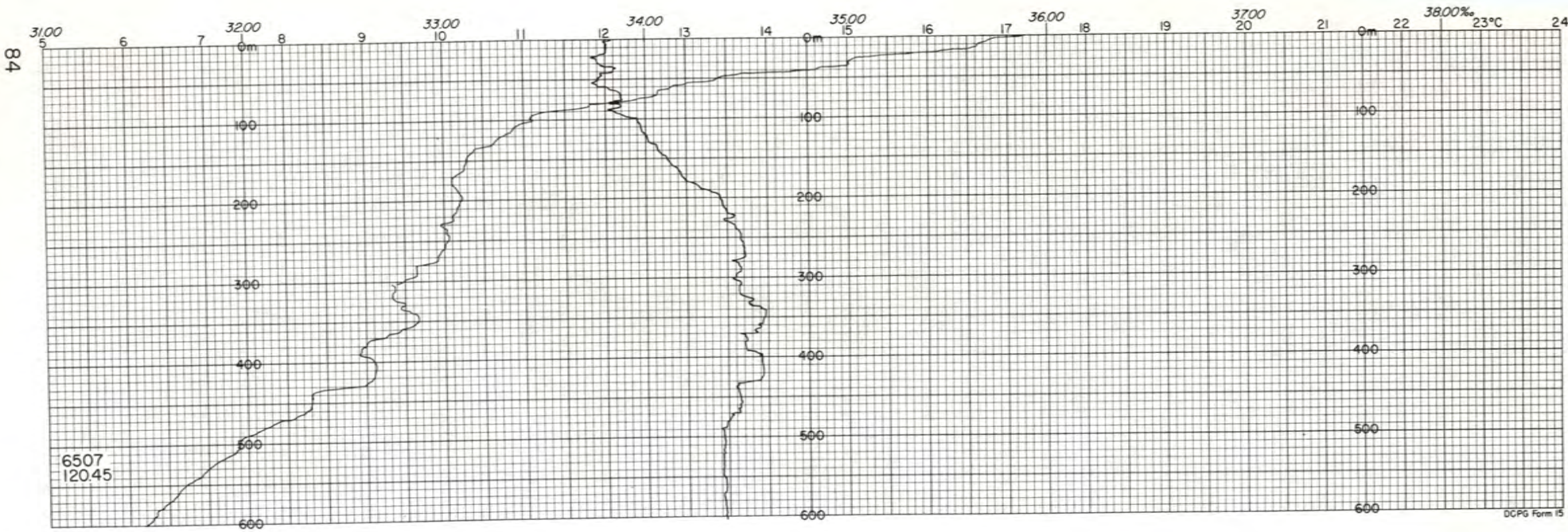


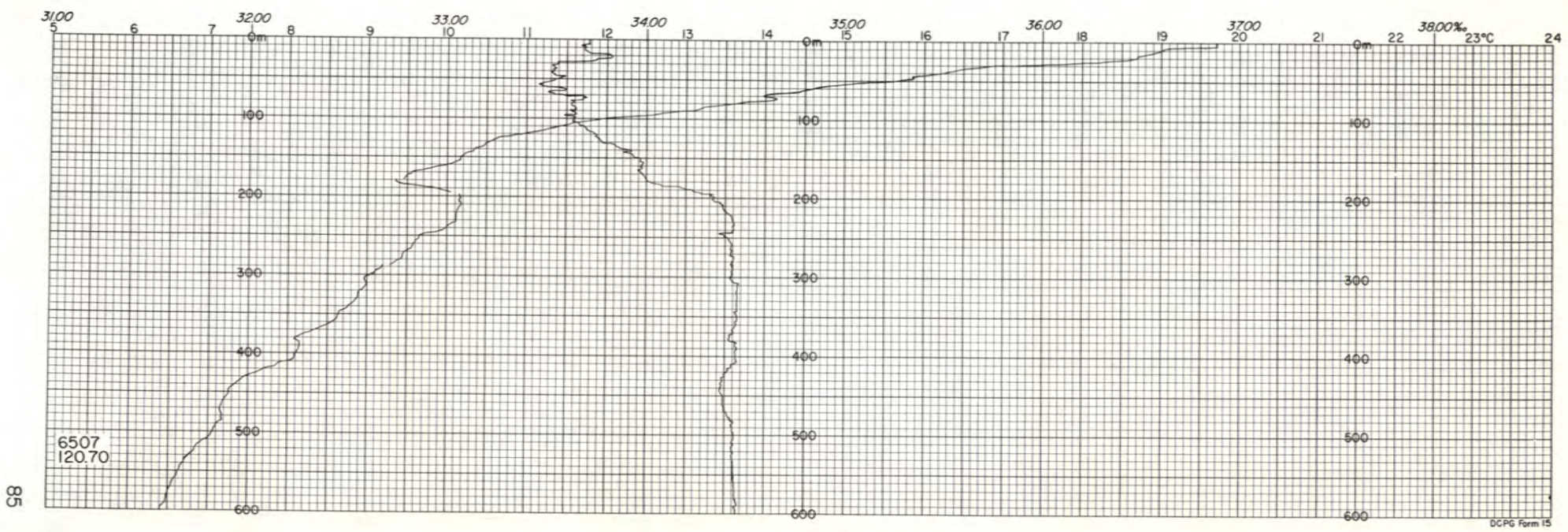
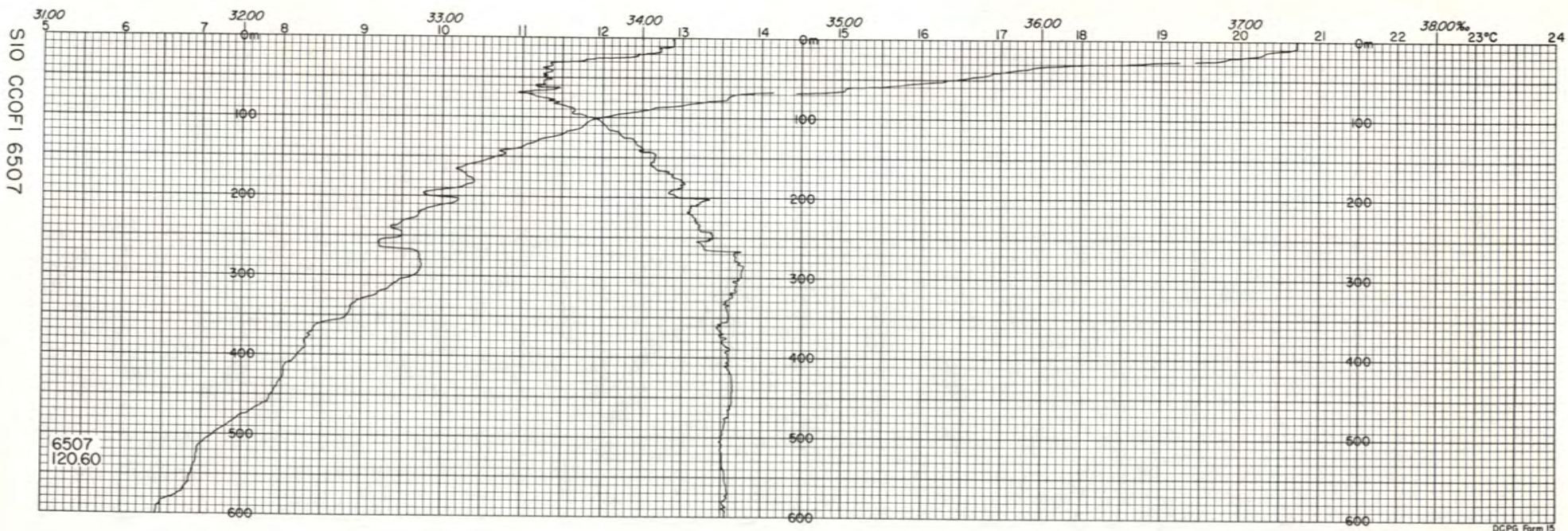
DCPG Form 15

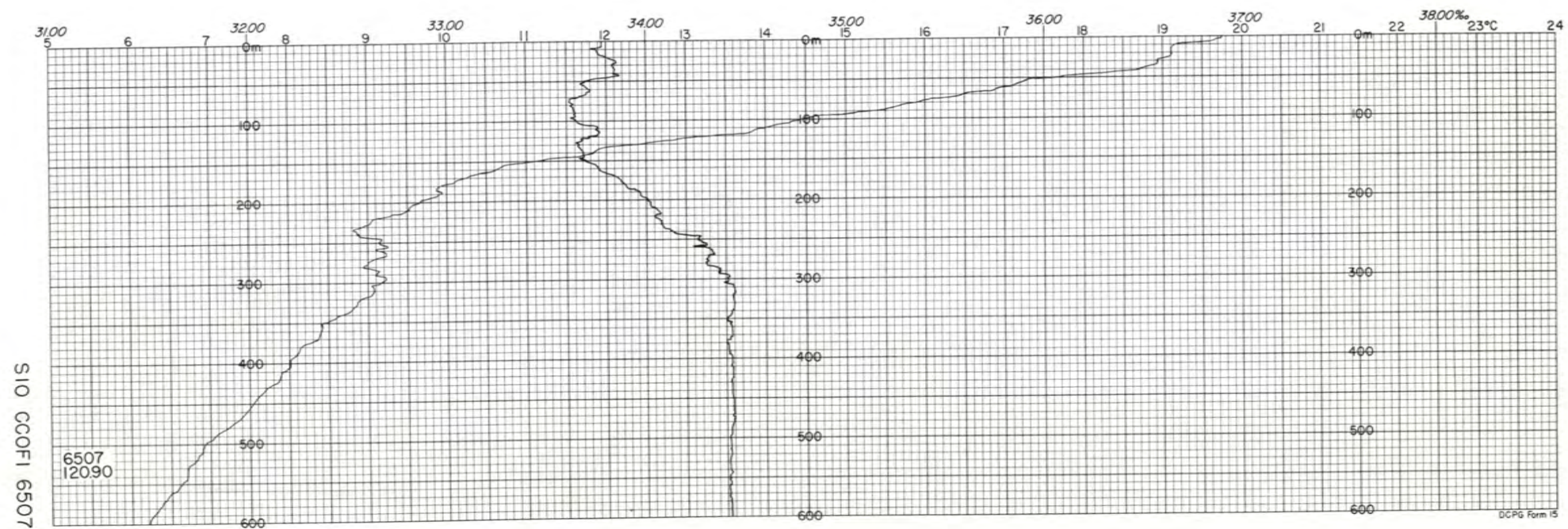
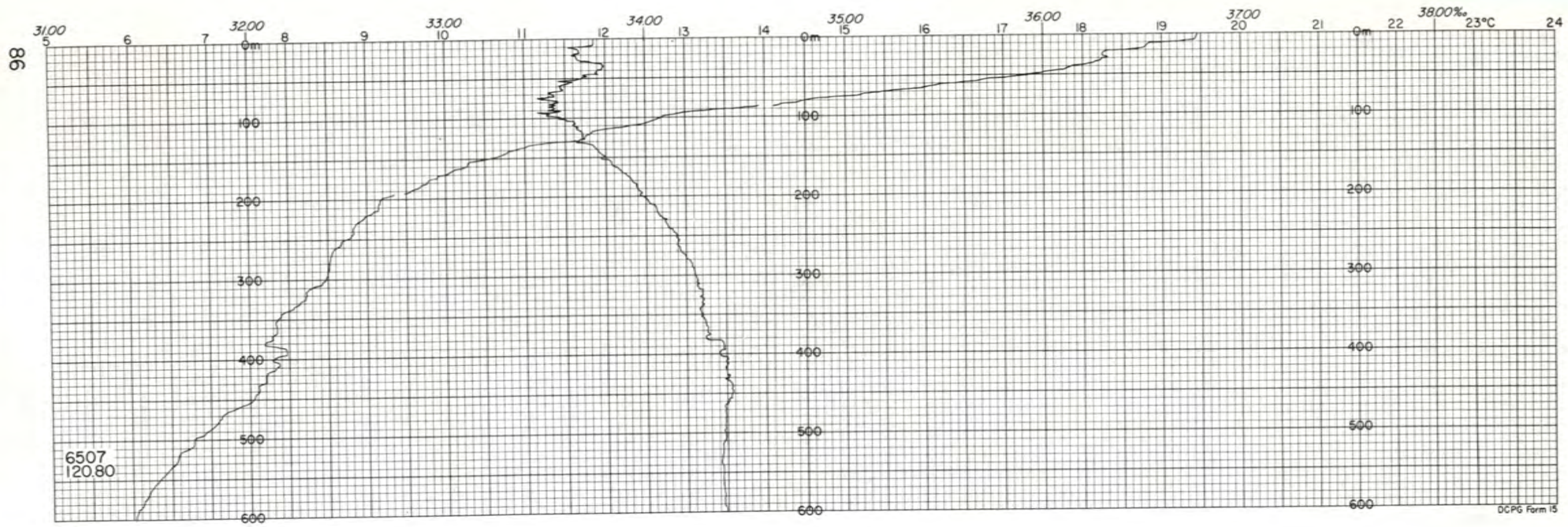
83



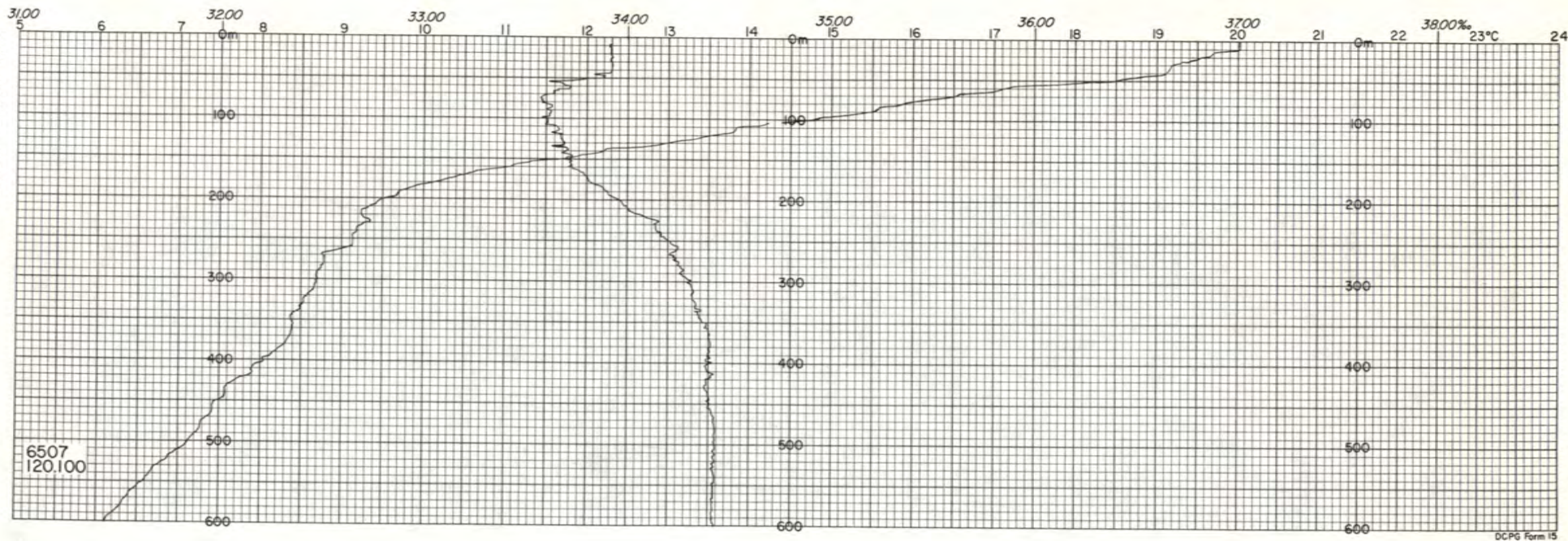
DCPG Form 15



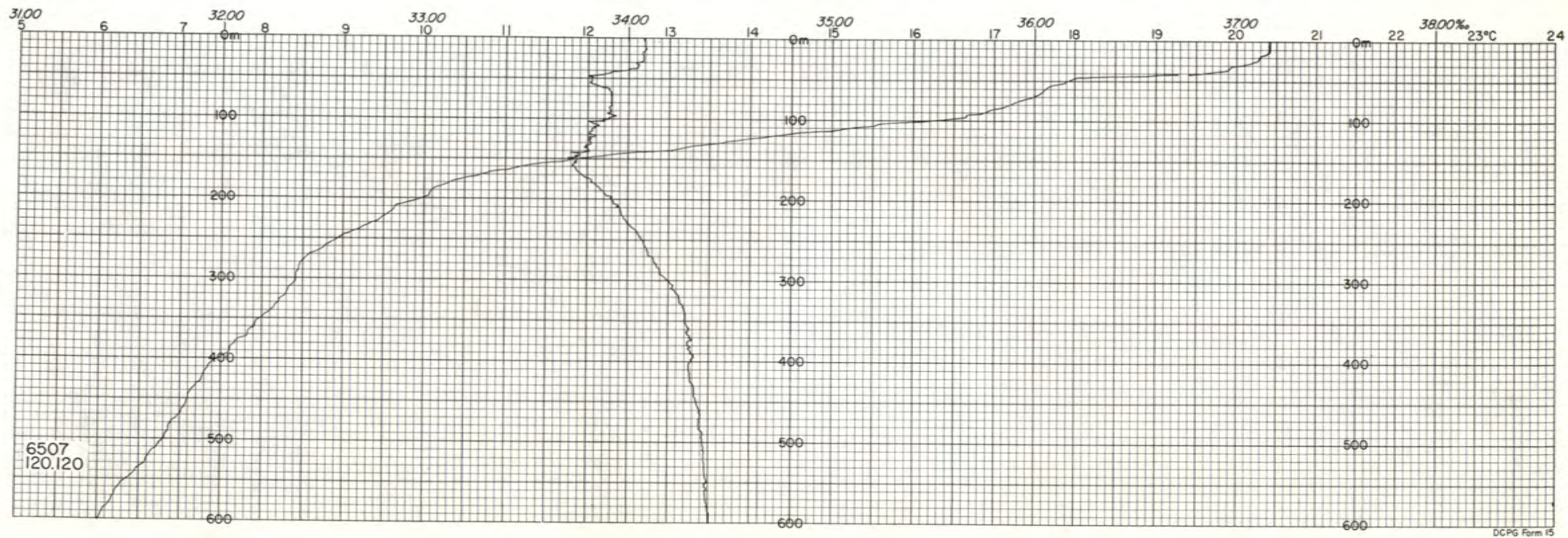


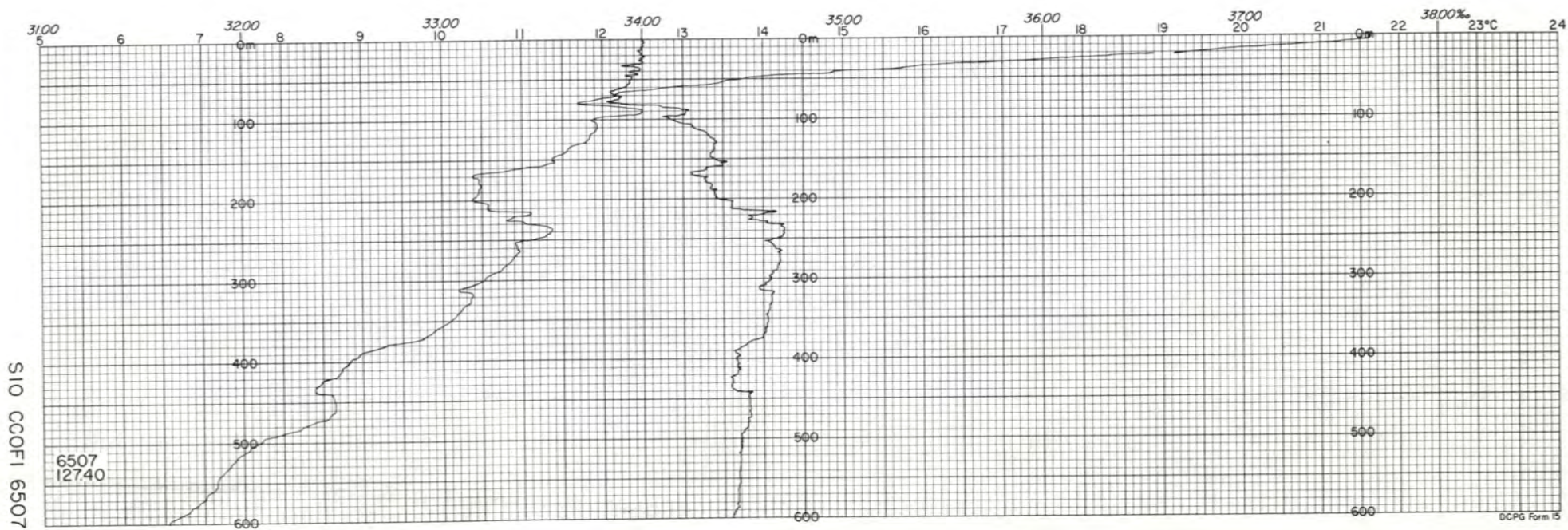
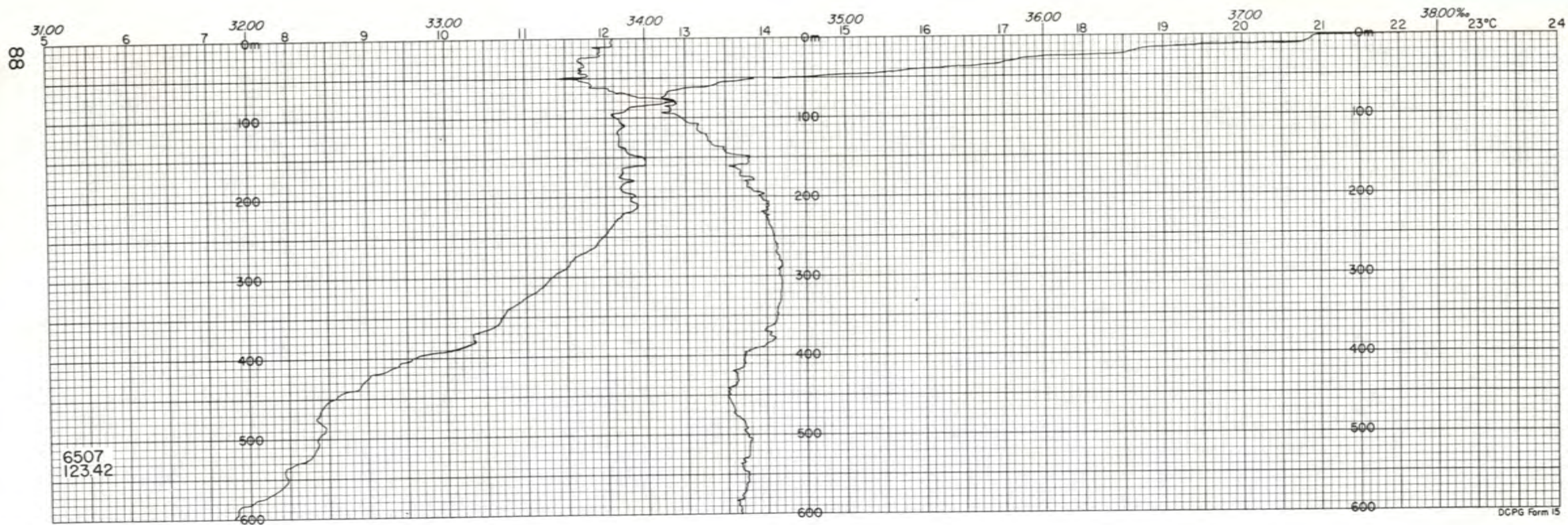


S10 CCOFI 6507

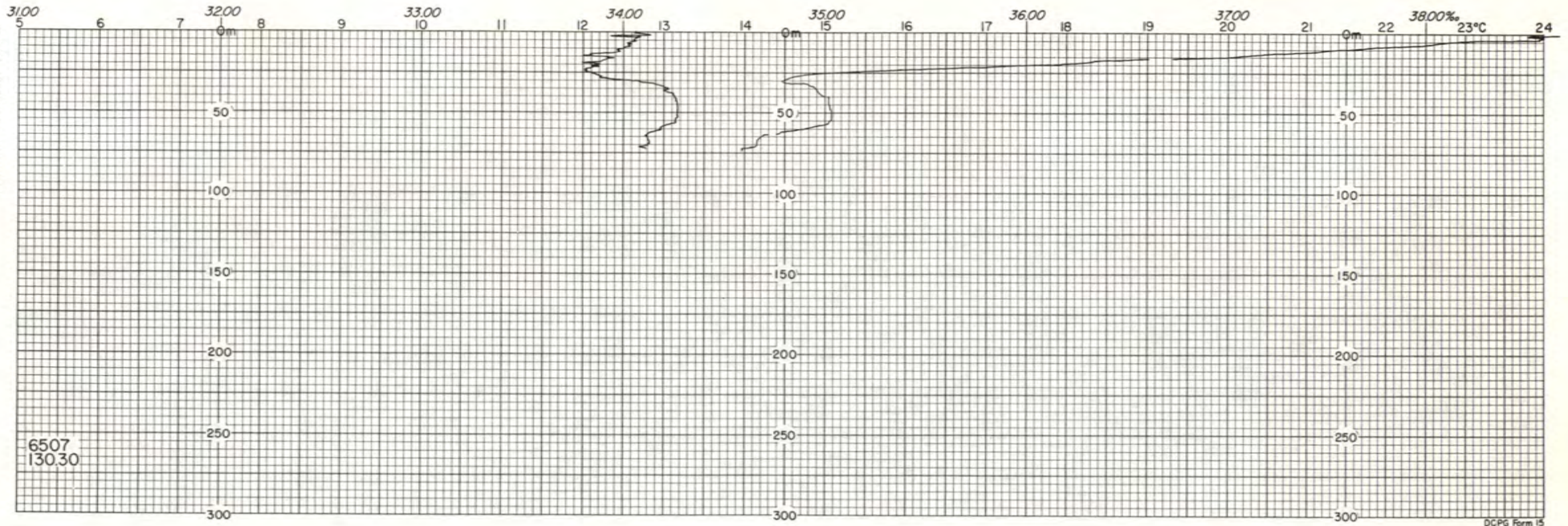


87

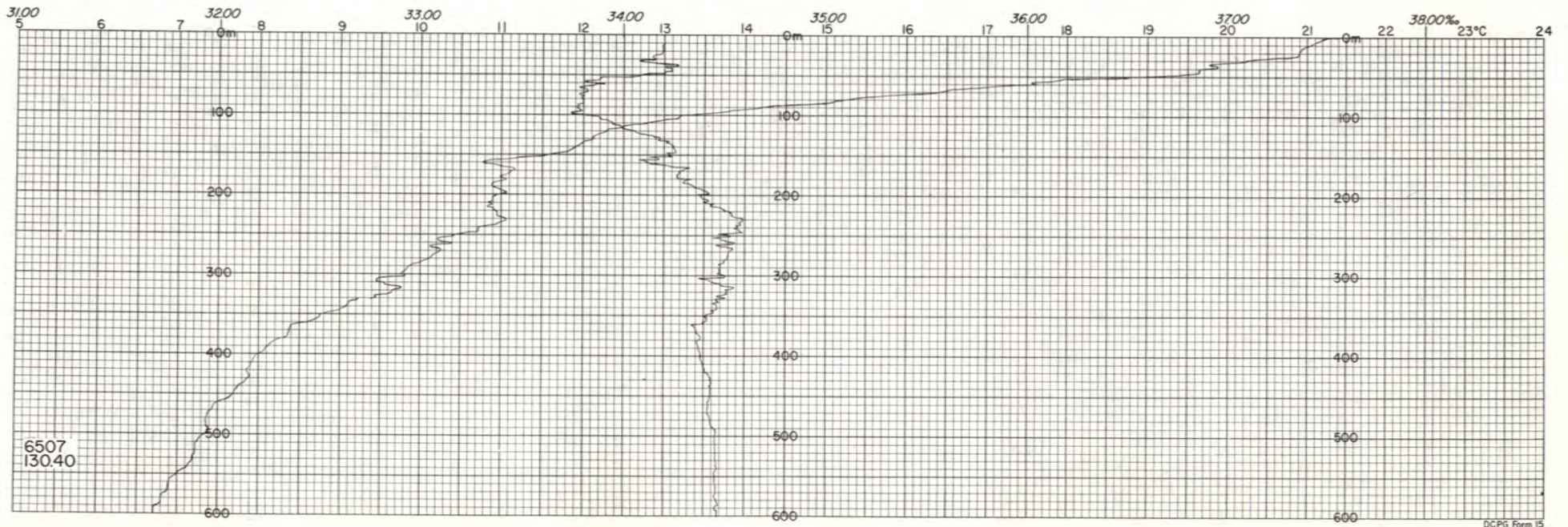


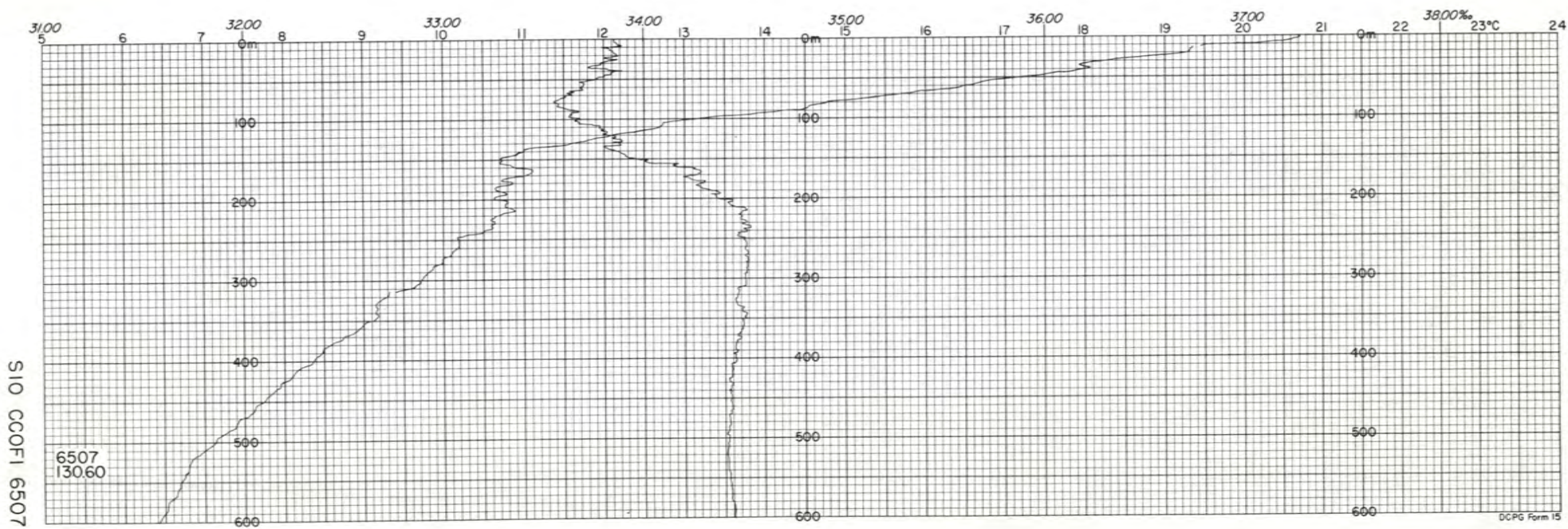
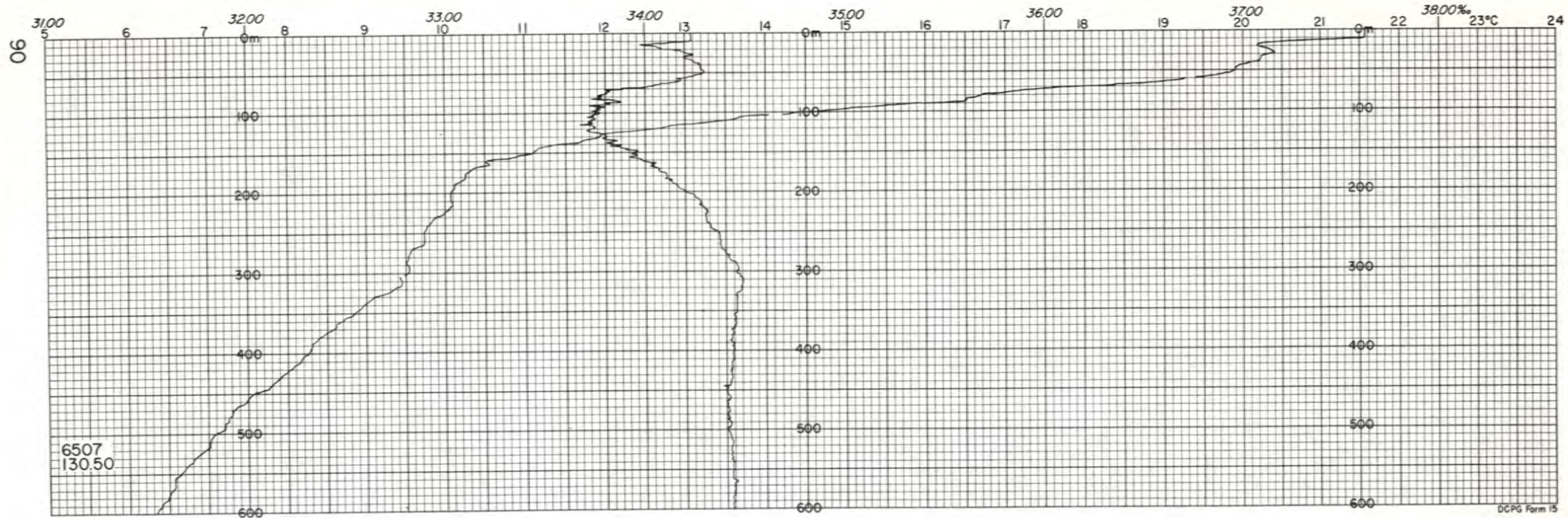


S10 CCOFI 6507

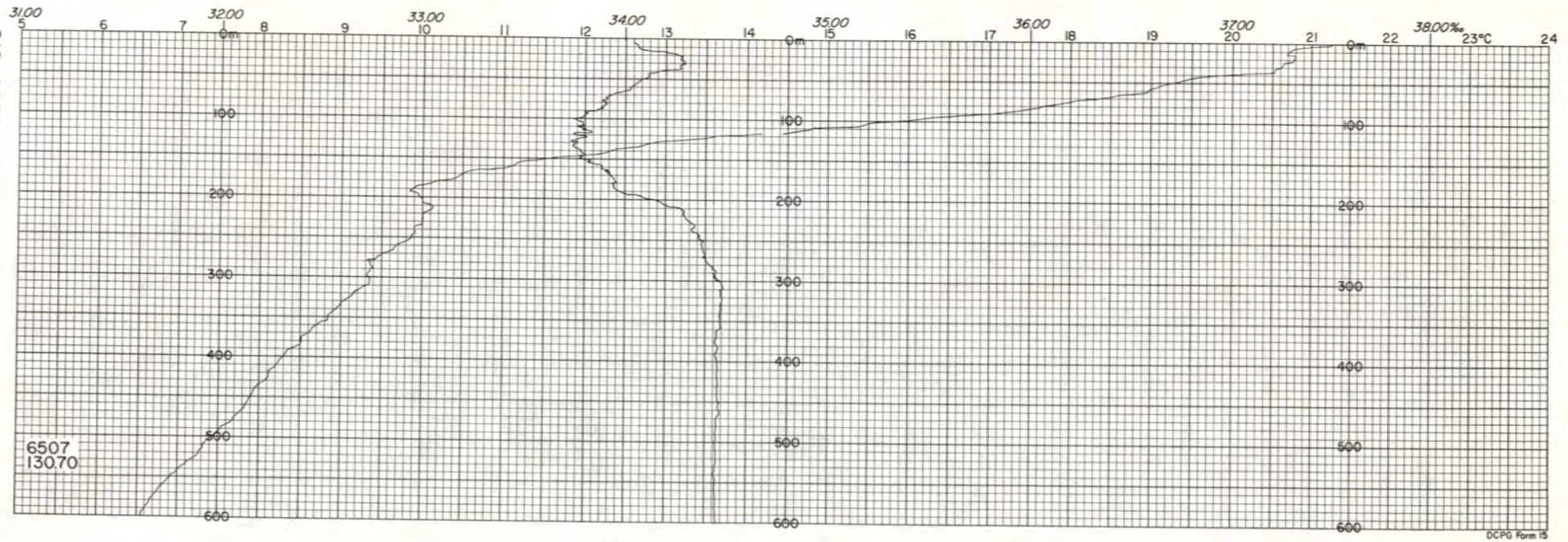


89



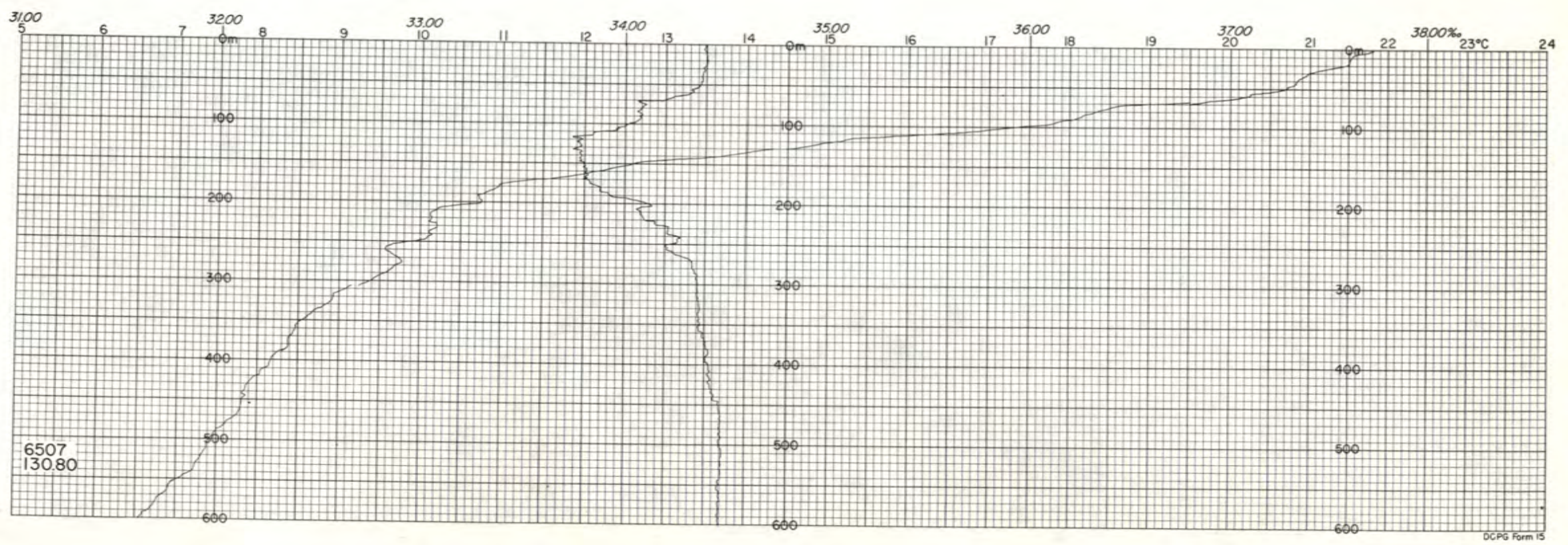


SIO CCOFI 6507

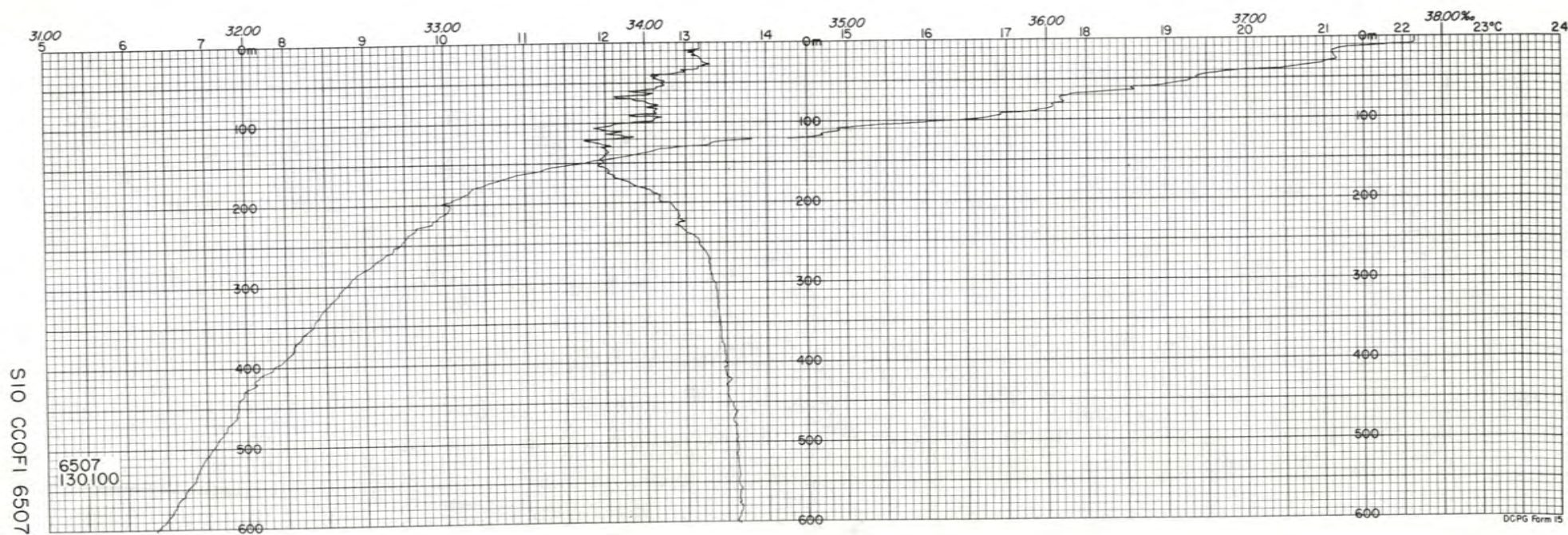
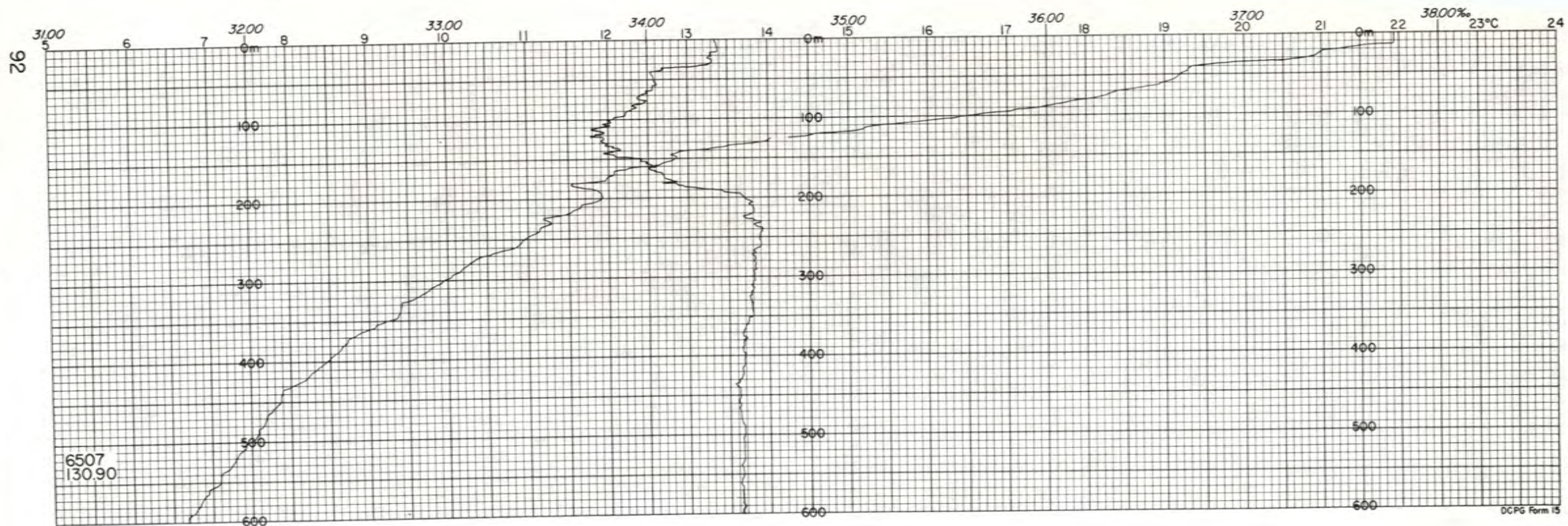


DCPG Form 15

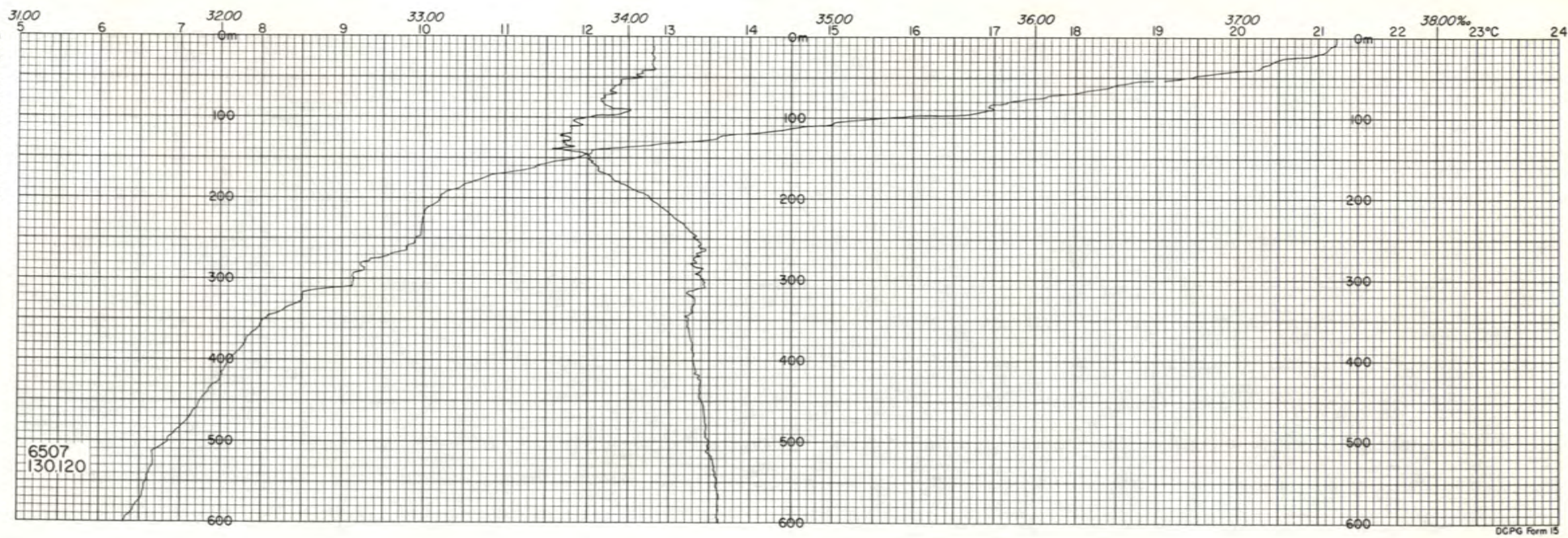
91



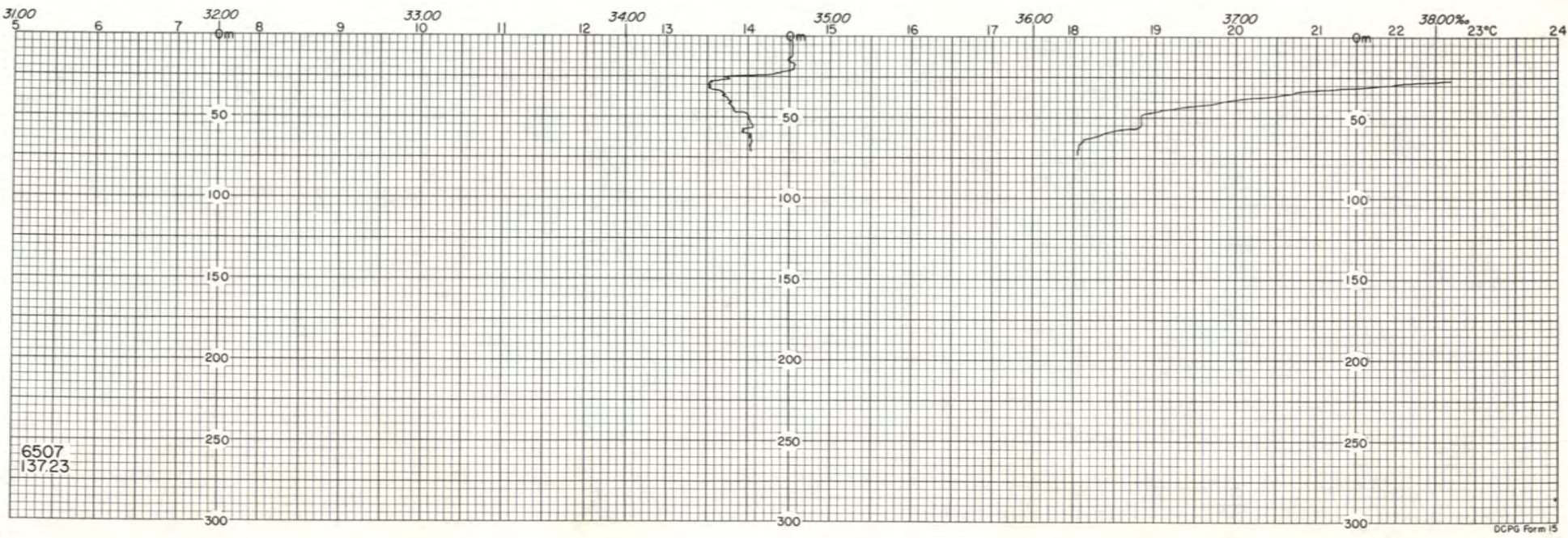
DCPG Form 15

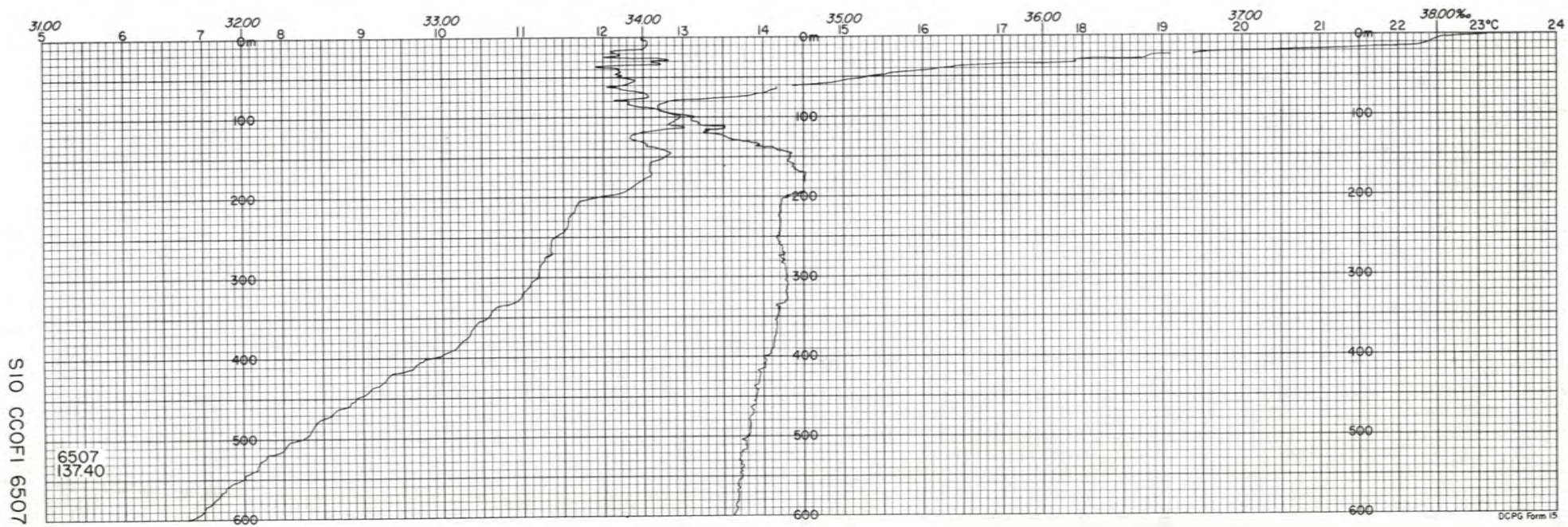
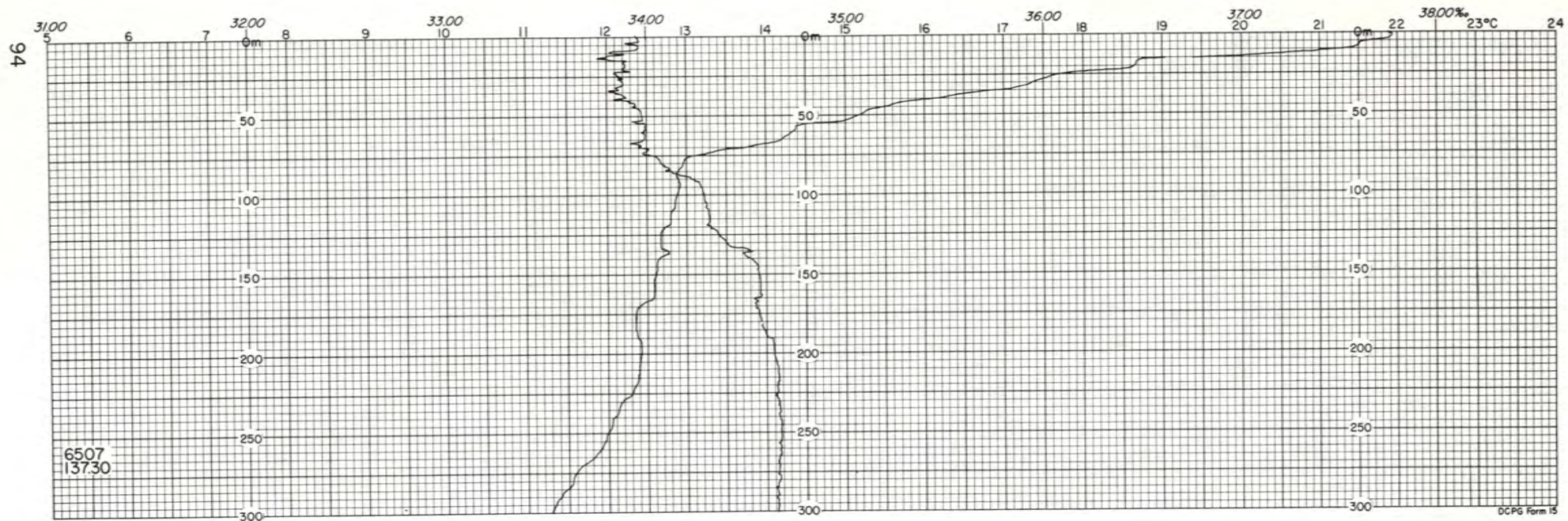


SIO CCOFI 6507

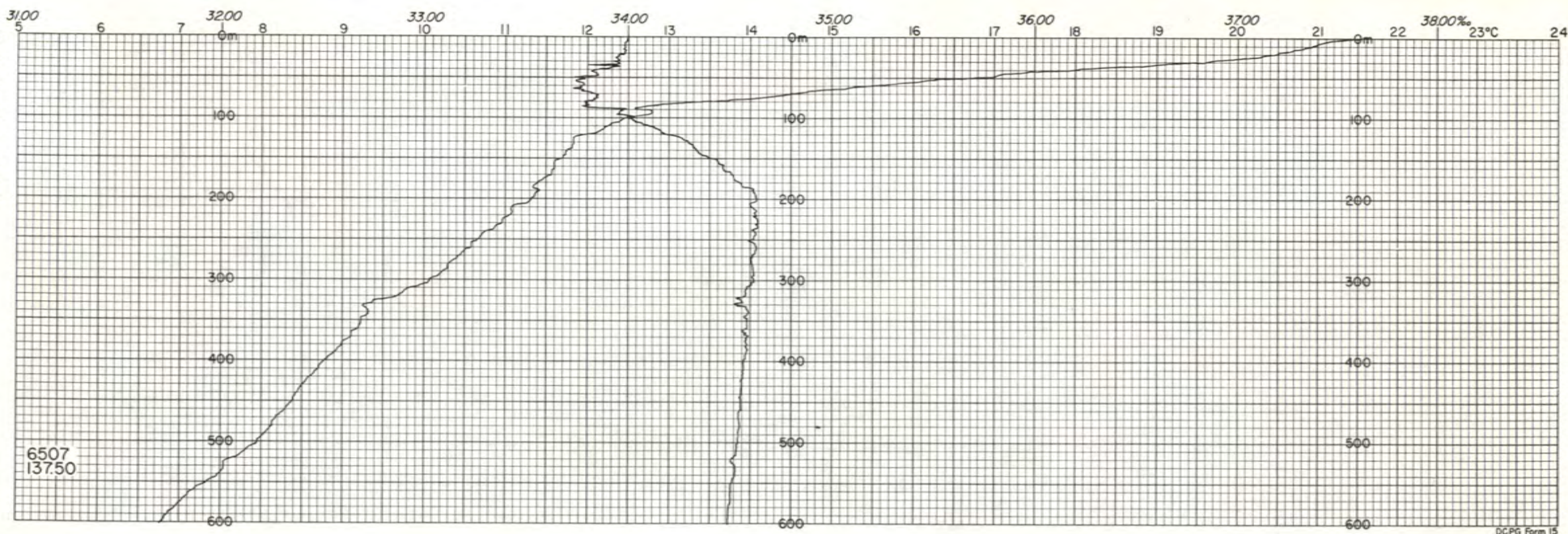


93



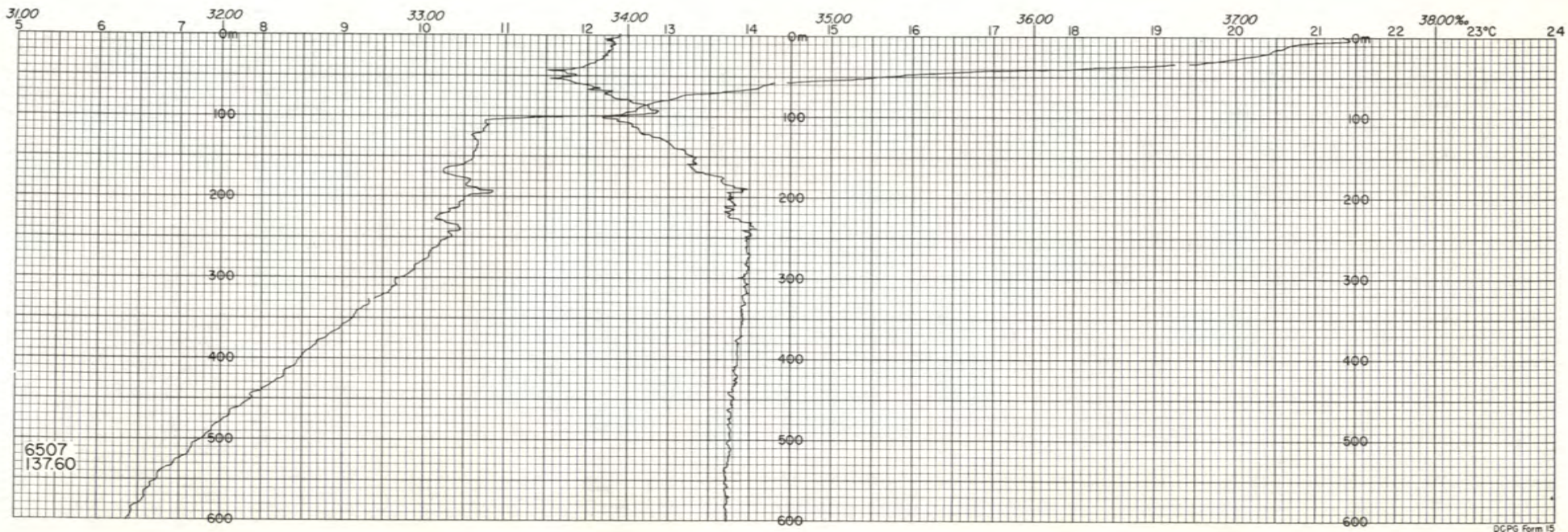


SIO CCOFI 6507

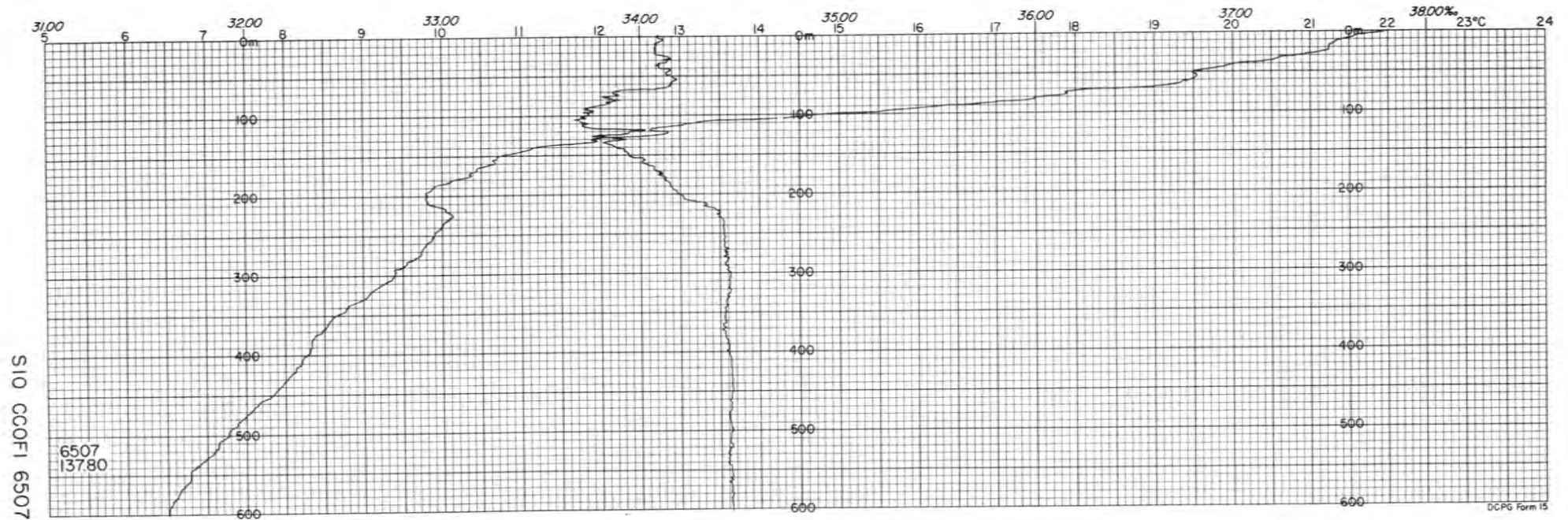
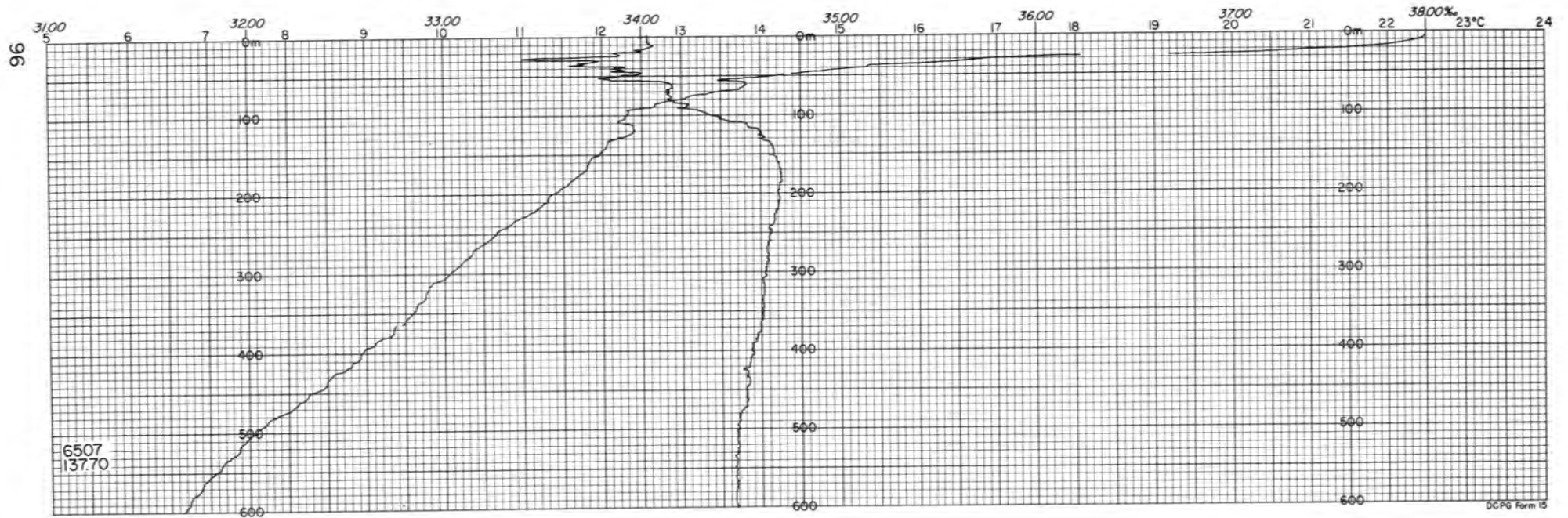


DCPG Form 15

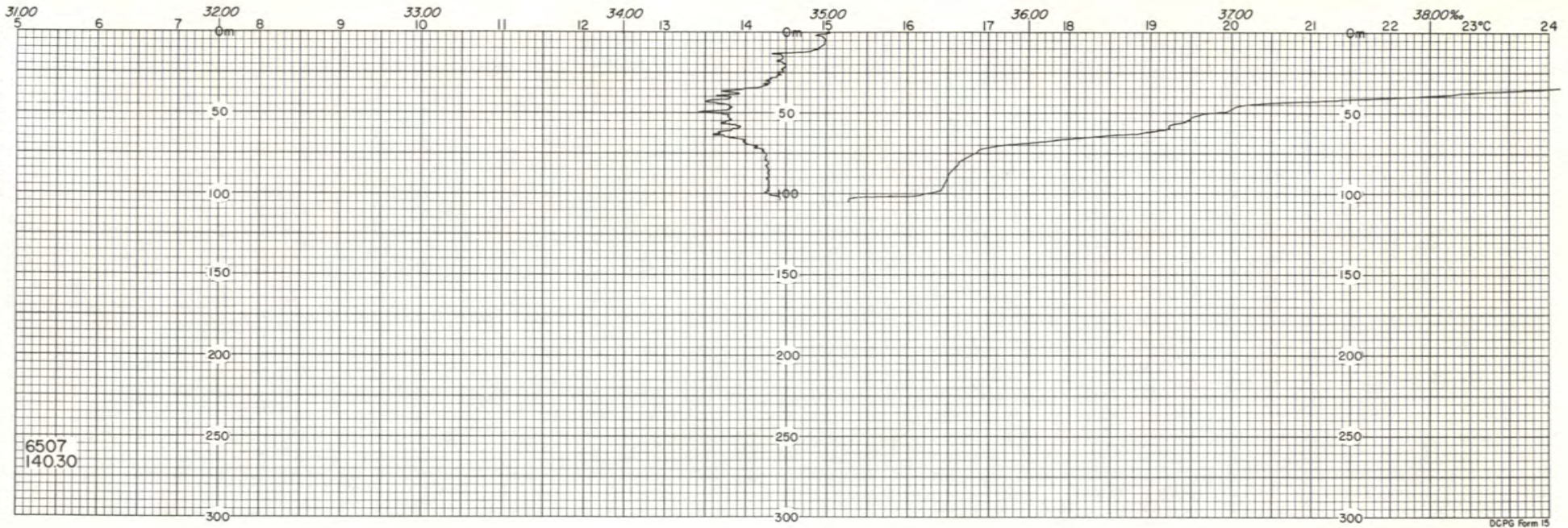
95



DCPG Form 15

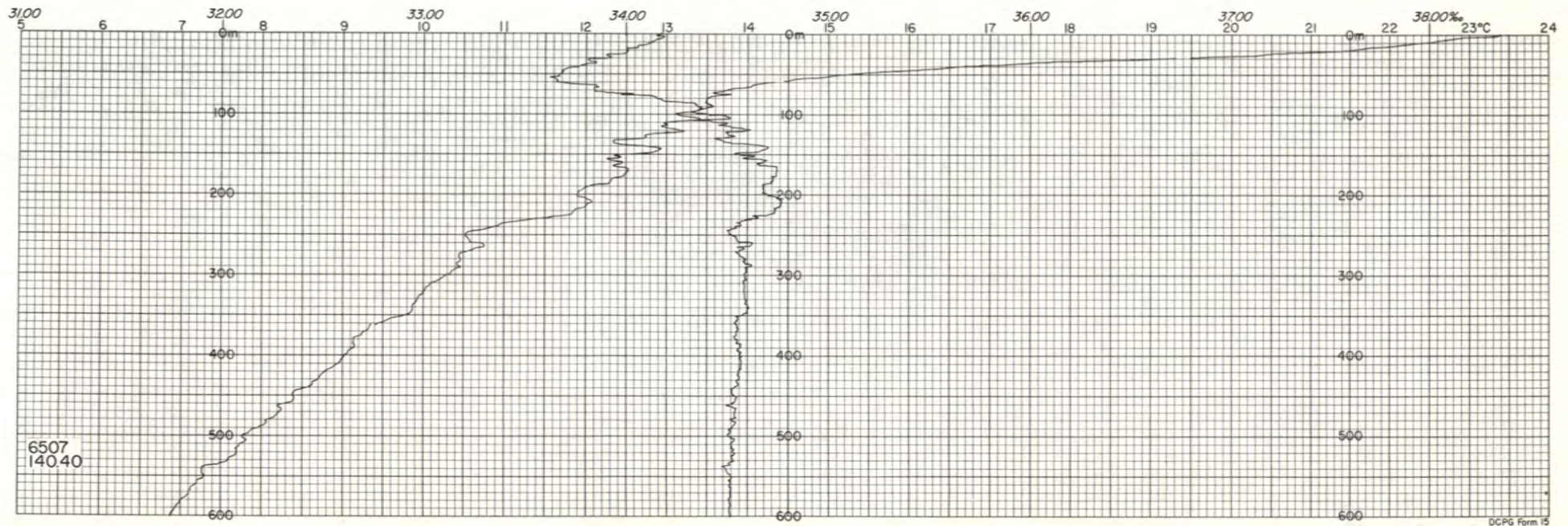


SIO COFI 6507



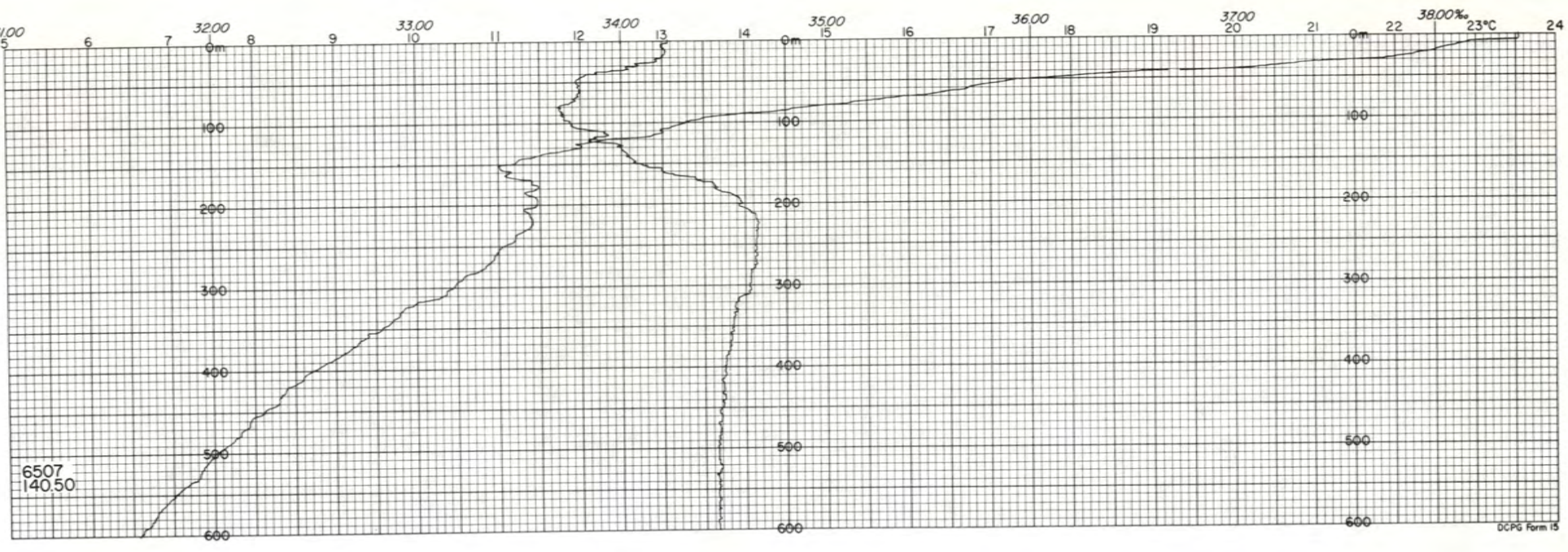
DCPG Form 15

97



DCPG Form 15

98



6507
140.50

DCPG Form 15

S10 CCOFI 6507

DATA AT NET TOW STATIONS										10 METERS		
Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind		Weather	Sea	T °C	S ‰	δ_T cl/ton
						Dir	Force					
60.49-G	VII-17	0428	37°59.0'	122°49.5'	12	180°	1	overcast	slight	12.95	32.737	254
60.50-G	17	0514	37°57.5'	122°53.5'	25	170°	1	overcast	missing	9.93	33.853	193
60.51-G	17	0555	37°55.5'	122°57.5'	34	190°	1	overcast	missing	10.41	33.924	196
60.55-G	17	0850	37°47.5'	123°15.0'	62	240°	2	overcast	missing	12.42	33.369	272
63.50-G	15	0415	37°27.0'	122°28.0'	15	300°	1	missing	slight	10.86	33.770	215
63.51-G	15	0320	37°23.5'	122°34.0'	34	310°	1	missing	slight	10.88	33.813	212
67.47-G	14	0730	36°54.5'	121°53.0'	10	270°	1	overcast	smooth	11.62	33.766	228
67.48-G	14	0810	36°53.0'	121°56.0'	20	260°	3	overcast	slight	12.02	33.755	236
67.49-G	14	0855	36°51.0'	122°00.5'	44	280°	4	missing	slight	11.58	33.755	228
70.50-G	14	0215	36°11.0'	121°44.0'	110	290°	1	cloudy	slight	10.93	33.600	228
70.51-G	14	0130	36°10.5'	121°46.0'	204	290°	1	partly cloudy	slight	11.15	33.538	237
70.52-G	14	0010	36°09.0'	121°50.0'	350	300°	2	overcast	slight	12.28	33.376	268
73.49-G	8	2322	35°38.0'	121°14.5'	18	290°	3	cloudy	moderate	11.18	33.617	231
73.50-G	9	0045	35°37.5'	121°17.0'	52	300°	4	cloudy	moderate	12.02	33.369	264
73.51-G	9	0135	35°35.5'	121°21.5'	202	320°	4	cloudy	rough	12.35	33.381	270
77.49-G	9	2008	35°06.5'	120°48.0'	38	290°	3	clear	rough	10.20	33.860	197
77.48-G	9	2110	35°08.0'	120°43.5'	15	290°	5	clear	rough	10.11	33.868	195
77.48-G	9	2155	35°09.0'	120°42.0'	7	250°	3	clear	moderate	10.15	33.835	198
80.50-G	10	0233	34°28.0'	120°29.5'	10	330°	4	clear	rough	13.52	33.721	266

Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind		Weather	Sea	10 METERS		
						Dir	Force			T °C	S ‰	δ_T cl/ton
80.51-G	VII-10	0320	34°26.5'	120°33.0'	50	320°	6	clear	very rough	11.94	33.731	236
80.65-G	10	1455	33°58.5'	121°33.0'	2240	340°	6	partly cloudy	very rough	15.04	33.320	326
83.39-B	VI-16	1440	34°15.5'	119°17.5'	9	270°	3	overcast	moderate	14.26	33.686	283
83.40-B	16	1530	34°13.5'	119°21.5'	12	270°	3	overcast	moderate	12.33	33.668	248
83.65-B	17	1130	33°24.0'	121°06.0'	1900	300°	1	missing	rough	13.94	33.342	302
87.32-B	19	2005	33°54.0'	118°27.0'	11	240°	1	cloudy	slight	15.54	33.630	314
87.33-B	19	1930	33°54.0'	118°29.5'	27	240°	1	cloudy	slight	16.28	33.639	330
87.34-B	19	1840	33°52.0'	118°33.5'	39	240°	1	overcast	slight	14.50	33.527	300
87.55-B	19	0410	33°10.0'	120°01.0'	550	300°	3	cloudy	moderate	13.64	33.350	296
87.65-B	18	2130	32°49.0'	120°42.5'	2000+	300°	3	cloudy	rough	15.04	33.288	329
90.28-G	VII-25	1746	33°27.5'	117°44.0'	15	210°	1	overcast	smooth	15.71	33.570	322
90.65-G	24	1730	34°14.5'	120°18.0'	2045	310°	5	overcast	rough	16.05	33.333	346
93.27-B	VI-20	0500	32°57.0'	117°16.5'	11	270°	2	cloudy	slight	17.04	33.642	346
93.27-B	20	0550	32°56.0'	117°19.0'	40	270°	2	cloudy	slight	16.76	33.616	342
93.35-B	20	1155	32°40.5'	117°51.5'	350	320°	1	missing	slight	16.45	33.685	330
93.45-B	20	1750	32°20.0'	118°31.0'	600	270°	3	cloudy	slight	14.52	33.699	288
93.55-B	20	2355	32°00.0'	119°10.0'	850	290°	3	cloudy	moderate	14.53	33.335	315
93.65-B	21	0600	31°39.0'	119°53.0'	2200+	270°	4	overcast	moderate	16.30	33.596	333
97.29-B	24	2205	32°19.5'	117°04.0'	-	-	-	missing	missing	11.42	33.716	228

Station	Date	Time GCT	DATA AT NET TOW STATIONS						10 METERS			
			Latitude North	Longitude West	Sounding (fm)	Wind Dir	Force	Weather	Sea	T °C	S ‰	δ_T cl/ton
97.29-B	VI-24	2245	32°17.5'	117°04.5'	29	320°	4	cloudy	moderate	13.76	33.727	271
97.30-B	24	2345	32°16.0'	117°07.0'	32	320°	4	cloudy	moderate	14.14	33.713	279
97.32-B	25	0100	32°12.0'	117°15.0'	600	300°	4	partly cloudy	moderate	14.43a)	33.727	-
97.45-B	23	0330	31°46.5'	118°09.5'	800	330°	2	cloudy	slight	14.82	33.364	319
97.55-B	22	2130	31°25.5'	118°50.0'	600	320°	2	cloudy	slight	16.14	33.608	328
97.65-B	22	1535	31°10.0'	119°31.5'	1900	320°	3	overcast	moderate	16.03	33.541	331
100.29-G	VII-27	0500	31°42.5'	116°43.5'	60	350°	4	clear	missing	11.32	33.690	228
100.45-G	27	1330	31°11.0'	117°47.0'	852	320°	4	partly cloudy	rough	16.90	33.527	351
100.55-G	27	2028	30°50.0'	118°27.5'	1380	320°	5	cloudy	rough	16.84	33.437	357
100.65-G	28	0220	30°31.0'	119°08.0'	1560	320°	5	clear	rough	16.93	33.461	357
103.29-B	VI-25	0940	31°08.0'	116°19.0'	-	-	-	missing	missing	13.70	33.823	262
103.29-B	25	1025	31°07.0'	116°21.0'	-	-	-	missing	missing	13.83	33.821	265
103.30-B	25	1120	31°06.0'	116°24.5'	38	300°	5	missing	rough	13.91	33.684	276
103.35-B	25	1400	30°56.0'	116°46.5'	1100	300°	4	cloudy	rough	15.94	33.570	327
103.40-B	25	1640	30°47.0'	117°07.5'	900	300°	5	cloudy	rough	15.96	33.632	323
103.45-B	25	1915	30°39.5'	117°24.0'	800	300°	4	cloudy	rough	15.90	33.682b)	318
103.50-B	25	2240	30°26.0'	117°44.5'	1100	320°	5	cloudy	rough	16.58	33.571	341

a) Alternate value, 14.94°C.

b) Possible evaporation.

DATA AT NET TOW STATIONS											10 METERS	
Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind		Weather	Sea	T °C	S ‰	δ_T cl/ton
						Dir	Force					
103.55-B	VI-26	0130	30°16.0'	118°02.0'	1400	320°	6	cloudy	rough	16.46	33.550	340
103.60-B	26	0430	30°06.0'	118°20.5'	900	320°	6	cloudy	rough	16.50	33.576	339
103.65-B	26	0725	29°55.0'	118°39.0'	1800	320°	6	cloudy	very rough	16.34	33.543	337
103.69-B	26	1035	29°44.5'	118°58.0'	1800	330°	6	partly cloudy	very rough	16.74	33.681a)	336
103.80-B	26	1700	29°24.5'	119°44.0'	2000+	320°	6	partly cloudy	very rough	17.05	33.611	348
103.90-B	26	2245	29°03.5'	120°21.0'	2000	340°	6	partly cloudy	very rough	17.50	33.800	345
107.30-B	28	1635	30°30.0'	116°03.5'	-	-	-	missing	missing	12.20	33.810	235
107.31-B	28	1535	30°28.0'	116°07.0'	24	320°	4	missing	rough	11.66	33.731	231
107.32-B	28	1435	30°26.0'	116°11.0'	420	320°	4	missing	rough	13.78	33.796	266
107.35-B	28	1235	30°21.5'	116°22.5'	900	330°	5	cloudy	very rough	15.44	33.687	308
107.40-B	28	0945	30°12.5'	116°43.0'	1400	320°	5	cloudy	very rough	15.41	33.675	308
107.45-B	28	0635	30°01.5'	117°02.0'	1500	330°	4	cloudy	very rough	15.75	33.500	328
107.50-B	28	0325	29°50.5'	117°22.0'	1150	340°	6	cloudy	very rough	16.44	33.548	340
107.55-B	28	0025	29°41.0'	117°42.0'	1600	340°	6	cloudy	very rough	16.88	33.576	347
107.60-B	27	2135	29°32.0'	118°01.5'	1800	330°	5	cloudy	rough	16.77	33.564	346
107.65-B	27	1830	29°21.0'	118°21.0'	1700	320°	4	cloudy	very rough	16.71	33.546	345
107.70-B	27	1510	29°11.0'	118°41.0'	1600	340°	5	cloudy	very rough	16.78	33.511	350

a) Possible evaporation.

DATA AT NET TOW STATIONS											10 METERS		
Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind		Weather	Sea	T °C	S ‰	δ_T cl/ton	
						Dir	Force						
107.80-B	VI-27	0855	28°50.0'	119°23.5'	2000	340°	6	cloudy	very rough	16.80	33.525	349	
107.90-B	27	0320	28°31.5'	119°59.0'	2150	340°	5	partly cloudy	very rough	17.18	33.667	347	
110.32-G	VIII-2	0910	29°52.0'	115°48.0'	14	330°	3	missing	slight	13.28	33.640	268	
110.45-G	2	0045	29°26.5'	116°39.0'	350	340°	2	overcast	moderate	17.82	33.624	365	
110.55-G	1	1825	29°06.5'	117°20.0'	1920	330°	4	overcast	moderate	18.06	33.706	364	
110.65-G	1	1150	28°46.5'	117°58.0'	1908	330°	3	cloudy	rough	18.38	33.832	363	
113.28-B	VI-29	0140	29°25.0'	115°11.5'	-	-	-	missing	missing	12.46	33.840	238	
113.29-B	29	0215	29°24.0'	115°13.0'	-	-	-	missing	missing	12.64	33.861	239	
113.30-B	29	0330	29°22.5'	115°20.0'	31	300°	5	missing	moderate	12.56	33.736	247	
113.35-B	29	0620	29°11.5'	115°38.0'	600	320°	5	missing	rough	17.22	33.739	343	
113.40-B	29	0915	29°02.0'	115°57.0'	1000	320°	5	missing	rough	17.16	33.746	341	
113.45-B	29	1220	28°52.0'	116°18.0'	1000	320°	4	cloudy	rough	17.14	33.795	337	
113.50-B	29	1507	28°45.0'	116°41.0'	1950	320°	4	missing	very rough	16.32	33.636	330	
113.55-B	29	1800	28°37.0'	117°02.0'	2000	330°	4	missing	very rough	16.26	33.603	331	
113.60-B	29	2035	28°29.0'	117°18.0'	1900	320°	4	missing	very rough	16.25	33.556	335	
113.65-B	29	2345	28°12.0'	117°36.0'	2000	340°	4	partly cloudy	rough	16.58	33.593	339	
113.70-B	30	0205	28°02.0'	117°54.5'	2050	340°	4	cloudy	rough	17.12	33.635	348	
113.80-B	30	0645	27°42.0'	118°32.0'	2000+	320°	3	cloudy	rough	16.73	33.555	346	
113.90-B	30	1117	27°22.0'	119°09.0'	2000	340°	5	cloudy	moderate	17.66	33.774	350	

Station	Date	Time GCT	DATA AT NET TOW STATIONS						10 METERS		
			Latitude North	Longitude West	Sounding (fm)	Wind Dir Force	Weather	Sea	T °C	S ‰	δ_T cl/ton
117.25-B	VII-2	0850	28°58.0'	114°36.5'	30	300° 2	fog	slight	14.24	33.744	279
117.25-B	2	0920	28°58.0'	114°36.0'	30	300° 2	fog	slight	14.20	33.749	277
117.26-B	2	0750	28°56.0'	114°41.5'	38	320° 3	cloudy	moderate	14.54	33.741	285
117.30-B	2	0540	28°48.0'	114°56.5'	50	340° 3	cloudy	moderate	15.37	33.766	300
117.35-B	2	0250	28°38.0'	115°16.0'	110	320° 4	cloudy	moderate	17.25	33.717	345
117.40-B	1	2047	28°28.0'	115°35.5'	400	320° 3	cloudy	moderate	17.22	33.685	347
117.45-B	1	1700	28°18.0'	115°56.0'	1500	340° 3	cloudy	moderate	15.16	33.585	309
117.50-B	1	1335	28°09.0'	116°15.0'	2010	360° 4	cloudy	rough	17.68	33.830	347
117.55-B	1	1035	27°58.0'	116°34.5'	2000	360° 4	cloudy	rough	18.00	33.866	352
117.60-B	1	0725	27°48.0'	116°53.0'	2000	270° 4	cloudy	rough	16.74	33.745	332
117.65-B	1	0430	27°37.5'	117°13.0'	1950	340° 4	cloudy	rough	17.80	33.816	350
117.70-B	1	0135	27°28.0'	117°32.5'	2010	360° 4	cloudy	rough	17.34	33.606	355
117.80-B	VI-30	2010	27°08.0'	118°10.5'	2300	360° 4	cloudy	rough	17.02	33.551	352
117.89-B	30	1540	26°49.0'	118°42.0'	2050	360° 4	cloudy	rough	17.64	33.765	350
118.39-B	VII-1	2330	28°18.5'	115°23.5'	150	340° 3	cloudy	moderate	15.70	33.650	316
120.22-B	2	1425	28°28.0'	114°04.0'	-	- -	missing	missing	17.55	33.859	342
120.23-B	2	1510	28°26.0'	114°06.5'	12	var. 1	missing	moderate	17.76	33.861	346
120.24-B	2	1600	28°24.0'	114°10.5'	19	280° 1	missing	rough	16.45	33.795	321
120.25-B	2	1700	28°22.5'	114°15.0'	30	280° 1	missing	rough	16.05	33.789	313

DATA AT NET TOW STATIONS										10 METERS		
Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind		Weather	Sea	T °C	S ‰	δ_T cl/ton
						Dir	Force					
120.30-B	VII-2	1920	28°13.0'	114°34.0'	50	300°	2	missing	moderate	15.98	33.750	315
120.35-B	2	2200	28°03.0'	114°54.0'	45	240°	3	partly cloudy	slight	17.11	33.799	336
120.40-B	3	0005	27°56.5'	115°14.0'	21	320°	4	partly cloudy	moderate	16.21	33.756	319
120.55-G	VIII-4	0410	27°23.0'	116°11.0'	1965	320°	3	cloudy	missing	19.76	33.900	391
120.65-G	4	1010	27°03.0'	116°49.5'	2065	320°	2	cloudy	missing	19.64	33.842	392
123.35-B	VII-3	0550	27°24.0'	114°32.0'	-	-	-	missing	missing	15.65	33.792	305
123.36-B	3	0635	27°26.0'	114°36.0'	18	270°	1	partly cloudy	slight	15.20	33.790	295
123.37-B	3	0730	27°24.0'	114°40.0'	35	270°	3	partly cloudy	slight	15.72	33.753	309
123.42-B	3	1035	27°14.0'	114°59.0'	800	320°	4	partly cloudy	moderate	18.04	33.826	356
123.45-B	3	1230	27°08.0'	115°11.5'	2200	320°	4	partly cloudy	moderate	17.67	33.832	346
123.50-B	3	1500	26°58.0'	115°31.0'	2000	340°	3	cloudy	moderate	19.42	34.228	359
123.55-B	3	1810	26°47.0'	115°50.0'	2000	300°	3	cloudy	slight	17.97	33.719	360
123.60-B	3	2050	26°35.0'	116°06.0'	2200	350°	4	cloudy	moderate	17.85	33.783	354
123.65-B	3	2330	26°25.0'	116°28.0'	2000	340°	4	cloudy	moderate	18.28	33.808	362
123.70-B	4	0200	26°19.0'	116°47.0'	2050	340°	4	cloudy	moderate	18.74	33.830	371
123.80-B	4	0630	26°00.5'	117°22.0'	2000	320°	3	partly cloudy	moderate	18.85	33.851	373
127.33-B	5	1305	26°57.5'	114°02.0'	35	100°	1	partly cloudy	moderate	14.86	33.819	286
127.33-B	5	1355	26°58.5'	114°00.5'	-	-	-	missing	missing	13.37	33.734	263
127.34-B	5	1205	26°55.0'	114°06.0'	45	100°	1	partly cloudy	moderate	15.48	33.762	303

DATA AT NET TOW STATIONS											10 METERS		
Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind		Weather	Sea	T °C	S ‰	δ_T cl/ton	
						Dir	Force						
127.40-B	VII-5	0915	26°45.5'	114°28.0'	1600	300°	4	cloudy	moderate	18.25	33.801	362	
127.45-B	5	0615	26°33.5'	114°48.5'	1900	330°	3	cloudy	moderate	17.82	33.797	353	
127.50-B	5	0303	26°23.0'	115°08.0'	1100	330°	4	cloudy	moderate	19.75	34.225	367	
127.55-B	4	2355	26°13.5'	115°27.0'	1900	320°	4	cloudy	rough	18.74	33.824	372	
127.60-B	4	2105	26°04.5'	115°45.0'	2000	320°	4	partly cloudy	moderate	18.18	33.764	363	
127.65-B	4	1820	25°52.5'	116°05.5'	1950	320°	3	cloudy	moderate	19.92	34.267	368	
127.70-B	4	1545	25°46.5'	116°22.0'	2050	360°	3	partly cloudy	moderate	20.02	34.273	371	
127.80-B	4	1110	25°26.0'	116°57.0'	2000	330°	4	partly cloudy	moderate	20.30	34.250	379	
130.26-G	VIII-8	0159	26°37.0'	113°13.0'	20	210°	3	partly cloudy	moderate	22.41	34.060	448	
130.26-G	8	0243	26°38.0'	113°11.0'	10	210°	4	partly cloudy	moderate	22.08	34.123	435	
130.28-G	8	0055	26°33.5'	113°20.5'	30	280°	2	partly cloudy	moderate	20.69	33.975	409	
130.35-G	7	2042	26°19.0'	113°47.5'	230	290°	2	partly cloudy	slight	19.14	33.924	374	
130.45-G	7	1515	25°59.0'	114°26.5'	1970	320°	2	partly cloudy	moderate	21.36	34.211	409	
130.55-G	7	0935	25°39.0'	115°04.5'	1910	360°	2	cloudy	missing	20.92	33.988	414	
133.19-B	VII-6	0035	26°13.5'	112°26.0'	-	-	-	missing	missing	18.27	34.116	340	
133.21-B	6	0140	26°12.5'	112°32.5'	26	280°	2	partly cloudy	slight	19.72	34.126	374	
133.23-B	6	0300	26°08.5'	112°40.0'	40	280°	2	partly cloudy	slight	17.10	33.925	326	
133.25-B	6	0430	26°04.5'	112°48.0'	45	280°	2	partly cloudy	slight	14.04	33.850	267	
133.30-B	6	0720	25°54.5'	113°07.5'	105	calm		partly cloudy	slight	16.28	33.933	308	

Station	Date	Time GCT	DATA AT NET TOW STATIONS					10 METERS				
			Latitude North	Longitude West	Sounding (fm)	Wind Dir Force	Weather	Sea	T °C	S ‰	δ_T cl/ton	
133.35-B	VII-6	1000	25°45.0'	113°27.0'	400	calm		partly cloudy	slight	16.57	33.760	327
133.40-B	6	1225	25°36.0'	113°47.0'	1400	calm		partly cloudy	very rough	18.59	33.819	369
133.45-B	6	1515	25°24.5'	114°05.0'	2000	calm		partly cloudy	slight	18.94	33.920	370
133.50-B	6	1804	25°13.0'	114°22.5'	1900	calm		partly cloudy	slight	19.60	33.835	392
133.55-B	6	2105	25°02.0'	114°42.0'	2000	040°	3	partly cloudy	moderate	19.60	33.820	393
133.60-B	6	2350	24°54.5'	115°02.0'	2000	270°	1	clear	very rough	19.74	34.060	379
133.65-B	7	0225	24°44.5'	115°20.5'	2050	270°	1	partly cloudy	very rough	19.34	34.007	373
133.70-B	7	0515	24°34.5'	115°39.0'	2000	calm		fog	rough	20.16	34.205	379
133.80-B	7	1003	24°14.5'	116°17.0'	1900	calm		fog	rough	20.40	34.029	398
137.20-G	VIII-8	1035	25°40.0'	112°07.5'	7	120°	1	overcast	missing	24.49	34.571	469
137.21-G	8	1120	25°38.0'	112°11.0'	14	140°	1	cloudy	missing	23.98	34.615	451
137.22-G	8	1210	25°36.0'	112°15.0'	26	110°	1	overcast	missing	24.07	34.668	450
137.35-G	8	1920	25°10.5'	113°04.0'	730	140°	1	cloudy	moderate	21.77	33.966	438
137.45-G	9	0119	24°50.5'	113°42.0'	1880	170°	2	cloudy	rough	22.86	34.167	453
137.55-G	9	0655	24°30.0'	114°20.0'	2045	350°	1	missing	rough	20.26	33.921	402
140.29-G	10	2115	24°47.5'	112°20.0'	28	270°	1	partly cloudy	missing	26.56	34.940	503
140.29-G	10	2155	24°48.0'	112°19.5'	6	270°	2	partly cloudy	missing	26.02	34.878	492
140.35-G	10	1725	24°35.5'	112°43.0'	530	290°	1	partly cloudy	slight	24.88	34.599	478
140.45-G	10	1115	24°15.5'	113°20.5'	1840	300°	2	partly cloudy	moderate	22.06	34.042	440

DISTRIBUTION LIST

Inter-American Tropical Tuna Commission
(c/o Scripps Institution of Oceanography)

Dr. John Kask

U. S. Bureau of Commercial Fisheries
(c/o Scripps Institution of Oceanography)

Dr. E. H. Ahlstrom
Mr. Robert Brown
Mr. Gerald V. Howard
Mr. Ronald Lynn
Mr. Robert W. Owen, Jr.
Mr. Charles G. Worrall
Library (2)

Scripps Institution of Oceanography

Dr. A. Alvariño de Leira
Dr. Maurice Blackburn
Dr. T. J. Chow
Dr. Abraham Fleminger
Mr. Jeffery D. Frautschy
Mr. John D. Isaacs
Mr. Hans T. Klein
Miss Margaret D. Knight
Dr. John A. McGowan
Mr. Joseph L. Reid, Jr.
Mrs. Margaret K. Robinson
Dr. Richard H. Rosenblatt
Mrs. Valeria A. de Saussure
Dr. M. B. Schaefer
Mr. Richard A. Schwartzlose
Mr. George H. Snyder
Dr. Warren S. Wooster
Director's Office
Library, AOG, SFA
Library, SIO, Archives
Library, SIO, Circulation (3)

- CCOFI Distribution List -

MR. WILLIAM ALLEN, JR.
1070 - 16TH PLACE SOUTH
EDMONDS, WASHINGTON 98020

MR. D.L. ALVERSON, BASE DIRECTOR
NORTH PACIFIC FISHERIES EXPLORATION
AND GEAR RESEARCH
2725 MONTLAKE BLVD.
SEATTLE, WASHINGTON 98102

MR. WILLIAM E. BATZLER
CODE 3185 C
U. S. NAVY ELECTRONICS LABORATORY
SAN DIEGO 52, CALIFORNIA
92152

MR. E.B. BENNETT
DEPARTMENT OF OCEANOGRAPHY
UNIVERSITY OF HAWAII
HONOLULU, HAWAII 96812

MR. FREDERICK H. BERRY
U.S. BUREAU OF COMMERCIAL FISHERIES
TROPICAL ATLANTIC BIOLOGICAL LAB.
75 VIRGINIA BEACH DRIVE
MIAMI, FLORIDA 33149

DR. ROLF BOLIN
HOPKINS MARINE STATION
PACIFIC GROVE, CALIFORNIA
93950

BRITISH MUSEUM
DEPARTMENT OF PRINTED BOOKS-SB
STECHELT-HAFNER, INC.
ORDER NO. AK 72461
LONDON, W.C. 1, ENGLAND.

BRITISH NAVY STAFF
BRITISH EMBASSY
3100 MASSACHUSETTS AVE. N.W.
WASHINGTON, D.C. 20008
ATTN. SCIENTIFIC INFORMATION OFFICER

CHIEF
BRANCH OF MARINE FISHERIES
BUREAU OF COMMERCIAL FISHERIES
DEPARTMENT OF THE INTERIOR
WASHINGTON, D.C. 20240

LIBRARIAN
BUREAU OF COMMERCIAL FISHERIES
TROPICAL ATLANTIC BIOLOGICAL LAB.
75 VIRGINIA BEACH DRIVE
MIAMI, FLORIDA 33149

LIBRARIAN
BUREAU OF COMMERCIAL FISHERIES
U.S. FISH AND WILDLIFE SERVICE
P. O. BOX 3830
HONOLULU 12, HAWAII 96812

MR. J. G. BURNETTE, CHAIRMAN
MARINE RESEARCH COMMITTEE
P. O. BOX 807
LOS ALTOS, CALIFORNIA 94022

DR. WAYNE V. BURT
PROFESSOR OF OCEANOGRAPHY
DEPARTMENT OF OCEANOGRAPHY
OREGON STATE UNIVERSITY
CORVALLIS, OREGON

LIBRARY
CALIFORNIA ACADEMY OF SCIENCES
GOLDEN GATE PARK
SAN FRANCISCO, CALIF. 94118

MARINE RESOURCES LIBRARY 4
DEPARTMENT OF FISH AND GAME
CALIFORNIA STATE FISHERIES LAB.
TERMINAL ISLAND, CALIF. 90731

CAPITAN DE NAVIO
LUIS R. A. CAPURRO
SERVICIO DE HIDROGRAFIA NAVAL
AVENIDA MONTES DE OCA 2124
BUENOS AIRES, ARGENTINA

ANATOLIO HERNANDEZ CARVALLO, DIR.
ESTACION DE BIOLOGIA PESQUERA
PASEO CLAUSSEN, COL LOS PINOS
MAZATLAN, SINALOA, MEXICO

MR. HAROLD B. CLÉMENS, JR.
MARINE RESOURCES OPERATIONS
CALIFORNIA STATE FISHERIES LAB.
TERMINAL ISLAND, CALIFORNIA
90731

DR. DANIEL M. COHEN
BUREAU OF COMMERCIAL FISHERIES
ICHTHYOLOGICAL LABORATORY
U. S. NATIONAL MUSEUM
WASHINGTON, D.C. 20560

MISS NANCY R. COMAN, LIBRARIAN
NARRAGANSETT MARINE LABORATORY
UNIVERSITY OF RHODE ISLAND
KINGSTON, RHODE ISLAND 02881

MR. E.H. COUGHRAN
ENVIRONMENTAL STUDIES INSTITUTE
P.O. BOX 6564
SAN DIEGO, CALIF. 92106

DR. G. M. CRESSWELL
TIBURON OCEANOGRAPHIC INSTITUTE
TIBURON, CALIFORNIA 94920

HERRN PROF. DR. A. DEFANT
STERNWARTESTRASSE 38
INNSBRUCK
AUSTRIA

DEUTSCHE AKADEMIE DER
WISSENSCHAFTEN ZU BERLIN
INSTITUT FÜR MEERESKUNDE
WARNEMÜNDE, SEESTR. 15
BERLIN, GERMANY

MR. ROBERT L. EBERHARDT
LOCKHEED AIRCRAFT CORPORATION
3380 N. HARBOR DRIVE
SAN DIEGO, CALIF. 92101

ENVIRONMENTAL SCIENCES DIVISION
CODE 3150, BOX 7
PACIFIC MISSILE RANGE
POINT MUGU, CALIF. 93041

LIBRARY
OCEANOGRAPHIC GROUP
FISHERIES RESEARCH AND DEVELOPMENT
AGENCY
PUSAN, KOREA

DR. RICHARD H. FLEMING
UNIVERSITY OF WASHINGTON
OCEANOGRAPHIC LABORATORIES
SEATTLE, WASHINGTON 98105

PROF. JAMES A. GAST
DIVISION OF NATURAL RESOURCES
HUMBOLDT STATE COLLEGE
ARCATA, CALIFORNIA 95521

DR. ROBERT H. GIBBS, JR.
DIVISION OF FISHERIES
U.S. NATIONAL MUSEUM
WASHINGTON, D.C. 20560

DR. DONN S. GORSLINE
DEPARTMENT OF GEOLOGY
UNIVERSITY OF SOUTHERN CALIFORNIA
LOS ANGELES, CALIF. 90007

MR. CHARLES G. GUNNERSON
WATER QUALITY ACTIVITIES
FEDERAL WATER POLLUTION CONTROL ADM.
1014 BROADWAY
CINCINNATI, OHIO, 45202

HANCOCK LIBRARY OF BIOLOGY & OCEANOGRAPHY
ALLAN HANCOCK FOUNDATION
UNIVERSITY OF SO. CALIF.
LOS ANGELES, CALIF. 90007

MR. KOJI HIDAKA
OCEAN RESEARCH INSTITUTE
UNIVERSITY OF TOKYO
NAKANO, TOKYO, JAPAN

MR. T. HIRANO
TOKAI REGIONAL FISHERIES
RESEARCH LABORATORY
5, KACHIDOKI, CHUO-KU
TOKYO, JAPAN

LIBRARIAN
INSTITUTE OF MARINE SCIENCE
UNIVERSITY OF MIAMI
1 BICKENBACKER CAUSEWAY
MIAMI, FLORIDA 33149

DIR., INST. DE GEOFISICA
TORRE DE CIENCIAS, 3ER PISO
UNIVERSIDAD NACIONAL AUTONOMA
DE MEXICO
VILLA OBREGON, D. F., MEXICO

INSTITUTO NACIONAL DE
INVESTIGACIONES BIOLÓGICO-PESQUERAS
CARMONA Y VALLE NO. 101, PISO NO. 4
MEXICO 7, D. F., MEXICO

DIRECTOR
ESTACION DE BIOLOGIA MARINA
INSTITUTO TECNOLÓGICO DE VERACRUZ
HEROICA, VERACRUZ
VERACRUZ, MEXICO

DR. W. C. JACOBS, DIRECTOR
NATIONAL OCEANOGRAPHIC DATA CENTER
WASHINGTON, D.C. 20390

JAPAN METEOROLOGICAL AGENCY
OCEANOGRAPHICAL SECTION
TOKYO, JAPAN

MR. LARRY KINL
DIRECTOR OF NATURAL RESOURCES
CALIFORNIA STATE CHAMBER OF COMMERCE
520 CAPITOL WALL, ROOM 406
SACRAMENTO, CALIFORNIA 95814

MR. JOSEPH E. KING, CHIEF
BRANCH OF MARINE FISHERIES
BUREAU OF COMMERCIAL FISHERIES
WASHINGTON, D.C. 20240

DR. H. KITAMURA
OCEANOGRAPHIC SECTION
KOBE MARINE OBSERVATORY
KOBE, JAPAN

DR. E. C. LA FOND
CODE 3190
U. S. NAVY ELECTRONICS LABORATORY
SAN DIEGO, CALIF. 92152

MR. OWEN S. LEE
PROGRAM MANAGER FOR PHYSICAL
OCEANOGRAPHY
U.S. NAVY ELECTRONICS LABORATORY
SAN DIEGO, CALIF. 92152

MR. ROBERT W. LESSER
LOCKHEED MARINE LABORATORY
3390 N. HARBOR DRIVE
SAN DIEGO, CALIF. 92101

DR. JOHN LYMAN
BUREAU OF COMMERCIAL FISHERIES
DEPT. OF THE INTERIOR
WASHINGTON, D.C. 20240

MARINE ADVISERS, INC.
P.O. BOX 1963
LA JOLLA, CALIFORNIA 92037

MR. JOHN C. MARR, AREA DIRECTOR
BUREAU OF COMMERCIAL FISHERIES
P. O. BOX 3830
HONOLULU, HAWAII 96812

MR. JOTARO MASUZAWA
OCEANOGRAPHICAL SECTION
JAPAN METEOROLOGICAL AGENCY
CHIYODA-KU, TOKYO, JAPAN

DR. HUGH J. McLELLAN
OFFICE OF NAVAL RESEARCH
CODE 408-416
WASHINGTON, D.C. 20360

DR. GILES W. MEAD
MUSEUM OF COMPARATIVE ZOOLOGY
HARVARD UNIVERSITY
CAMBRIDGE 38, MASSACHUSETTS
02138

LIBRARIAN
MINISTRY OF AGRICULTURE, FISHERIES
AND FOOD
FISHERIES LABORATORY
LOWESTOFT, SUFFOLK, ENGLAND

LIBRARY
NANKAI REGIONAL FISH. RES. LAB.
6-2, SANBASHI-DORI, KOCHI-SHI
KOCHI, JAPAN

LIBRARIAN
NATIONAL OCEANOGRAPHIC DATA CENTER
WASHINGTON, D.C. 20390

DR. KENNETH S. NORRIS
UNIVERSITY OF CALIFORNIA
DEPT. OF ZOOLOGY
LOS ANGELES, CALIF. 90024

DR. ROBERT M. NORRIS
DEPARTMENT OF GEOLOGY
UNIVERSITY OF CALIFORNIA
SANTA BARBARA, CALIFORNIA 93106

OCEANOGRAPHIC RESEARCH INSTITUTE
CENTENARY AQUARIUM BLDGS.
2 WEST STREET
DURBAN, NATAL, SOUTH AFRICA

OFICINA DE PESCA No. 1
AV. RUIZ NO. 4-3
ENSENADA, BAJA CALIFORNIA
MEXICO

DR. YNGVE H. OLSEN
JOURNAL OF MARINE RESEARCH
BOX 2025, YALE STATION
NEW HAVEN, CONN. 06520

LIBRARY, RESEARCH LABORATORY
OREGON FISH COMMISSION
ROUTE 2, BOX 31A
CLACKAMAS, OREGON 97015

PACIFIC MARINE FISHERIES COMMISSION
741 STATE OFFICE BUILDING
1400 S.W. FIFTH AVENUE
PORTLAND, OREGON 97201

MR. HAROLD D. PALMER
DAMES AND MOORE
2333 W. THIRD STREET
LOS ANGELES, CALIF. 90057

DR. ROBERT G. PAQUETTE
GENERAL MOTORS CORPORATION
DEFENSE SYSTEMS DIVISION
BOX T
SANTA BARBARA, CALIFORNIA 93102

DR. G. L. PICKARD
INST. OF OCEANOGRAPHY
UNIVERSITY OF BRITISH COLUMBIA
VANCOUVER, B. C.
CANADA

DR. D. W. PRITCHARD, DIRECTOR
CHESAPEAKE BAY INSTITUTE
THE JOHNS HOPKINS UNIVERSITY
OCEANOGRAPHY BLDG.
JAL. MORRIS, MARYLAND 21218

MR. D. W. PRIVETT, LIBRARIAN
NATL. INST. OF OCEANOGRAPHY
WORMLEY
NEAR GODALMING
SURREY, ENGLAND

DR RICARDO M. PYTKOWICZ
DEPARTMENT OF OCEANOGRAPHY
OREGON STATE UNIVERSITY
CORVALLIS, OREGON
97331

MR. JOHN RADOVICH, CHIEF
MARINE RESOURCES BRANCH
DEPARTMENT OF FISH AND GAME
1416 NINTH STREET
SACRAMENTO, CALIF. 95814

MR. GUNNAR I. RODEN
DEPARTMENT OF OCEANOGRAPHY
UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98105

DIRECTOR PEDRO MERCADO SANCHEZ
ESCUELA SUPERIOR CIENCIAS MARINAS
UNIVERSIDAD AUTONOMA DE BAJA CALIF.
APARTADO DE CORREOS 453
ENSENADA, B. C., MEXICO

LIBRARIAN
SERIALS DEPARTMENT
SAN DIEGO STATE COLLEGE LIBRARY
SAN DIEGO, CALIF. 92115

DR. O. E. SETTE, CHIEF
BUREAU OF COMMERCIAL FISHERIES
BIOLOGICAL LABORATORY
450-B JORDAN HALL
STANFORD, CALIFORNIA 94305

MR. DAITARO SHOJI
OCEANOGRAPHIC SECTION
JAPANESE HYDROGRAPHIC OFFICE
5-CHOME, TSUKIJI, CHUO-KU
TOKYO, JAPAN

DR. REIMER SIMONSEN
INSTITUT FUR MEERESFORSCHUNG
285 BREMERHAVEN
AM HANDELSHAFEN 12
GERMANY

MR. EDMUND H. SMITH, DIRECTOR
PACIFIC MARINE STATION
DILLON BEACH
MARIN COUNTY, CALIF

DR. F.G. SMITH, DIRECTOR
INSTITUTE OF MARINE SCIENCE
UNIVERSITY OF MIAMI
1 RICKENBACKER CAUSEWAY
MIAMI, FLORIDA 33149

LIBRARY OF THE DIVISION OF
SYSTEMATIC BIOLOGY
STANFORD UNIVERSITY
STANFORD, CALIF. 94305

PROF. HENRY M. STOMMEL
MASSACHUSETTS INSTIT. OF TECHNOLOGY
BLDG. 24, ROOM 1416
CAMBRIDGE 39, MASSACHUSETTS.
02139

DR. ARTHUR D. STUMP
DEPARTMENT OF CHEMISTRY
SAN JOSE STATE COLLEGE
SAN JOSE, CALIF.

MR. NORMAN TEBBLE
ZOOLOGY DEPARTMENT
BRITISH MUSEUM, NATURAL HISTORY
CROMWELL ROAD
LONDON SW 7, ENGLAND

DEPARTMENT OF OCEANOGRAPHY
TEXAS A. AND M. COLLEGE
COLLEGE STATION, TEXAS
77843

MR. A. J. THOMSON
OFFICIAL SECRETARY
NEW SOUTH WALES GOVERNMENT OFFICES
56, STRAND
LONDON, W. C. 2, ENGLAND

DR. R. B. TIBBY
HANCOCK FOUNDATION
U. OF SOUTHERN CALIFORNIA
UNIVERSITY PARK
LOS ANGELES 7, CALIFORNIA 90007

DR. M. UDA
TOKYO UNIV. OF FISHERIES
4-5 KONANCHO, MINATO-KU
TOKYO, JAPAN

COMMANDING OFFICER
USCG OCEANOGRAPHIC UNIT
BLDG. 159-E, NAVY YARD ANNEX
WASHINGTON, D.C. 20390

LOS ANGELES FIELD OFFICE
U.S. COAST AND GEODETIC SURVEY
417 S. HILL ST., ROOM 535
LOS ANGELES, CALIF. 90013

LIBRARIAN
U. S. COAST AND GEODETIC SURVEY
WASHINGTON SCIENCE CENTER
ROCKVILLE, MARYLAND 20852

U. S. FISH AND WILDLIFE SERVICE
TIBURON MARINE LABORATORY
P. O. BOX 98
TIBURON, CALIFORNIA
94920

U.S. FLIPET NUMERICAL WEATHER FACILITY
U.S. NAVAL POSTGRADUATE SCHOOL
MONTEREY, CALIF. 93940

LIBRARIAN
U. S. NAVAL CIVIL ENGINEERING LAB.
PORT HUENEME, CALIFORNIA
93041

COMMANDER 2
U.S. NAVAL OCEANOGRAPHIC OFFICE
LIBRARY CODE 1640
WASHINGTON, D.C. 20390

U.S. NAVAL ORDNANCE TEST STATION
3202 E. FOOTHILL BLVD.
PASADENA, CALIFORNIA
ATTN. CODE P- 80833
91107

LIBRARY 2
U.S. NAVY ELECTRONICS LABORATORY
SAN DIEGO, CALIF. 92152

UNIVERSITY OF CALIFORNIA 2
SERIALS DEPARTMENT
GENERAL LIBRARY
BERKELEY 4, CALIFORNIA
94704

PUBLICATIONS OFFICE 2
101 UNIVERSITY HALL
2200 UNIVERSITY AVE
BERLELEY, CALIF. 94720

UNIVERSITY OF WASHINGTON 2
FISHERIES-OCEANOGRAPHY LIBRARY
203 FISHERIES CENTER
SEATTLE, WASHINGTON 98105

DR. M. PAT WENNEKENS
DEPARTMENT OF THE NAVY
OFFICE OF NAVAL RESEARCH
1076 MISSION ST.
SAN FRANCISCO, CALIFORNIA 94103

WOODS HOLE OCEANOGRAPHIC INST.
DOCUMENT LIBRARY LO-206
WOODS HOLE, MASS. 02643

DIRECTOR 6
WORLD DATA CENTER A, OCEANOGRAPHY
BLDG. 160
2ND AND N STREETS, S.E.
WASHINGTON, D.C. 20390

MR. HAJIME YAMANAKA
DIVISION OF OCEANOGRAPHY
NANKAI REGIONAL FISH. RES. LAB.
2-6, SANBASHI-DORI, KOCHI-SHI
KOCHI, JAPAN

DR. KOZO YOSHIDA
GEOPHYSICAL INST.
UNIVERSITY OF TOKYO
HONGO, TOKYO, JAPAN