

NATIONAL INSTITUTE OF OCEANOGRAPHY

Surrey, England

and

WOODS HOLE OCEANOGRAPHIC INSTITUTION

Woods Hole, Massachusetts, U.S.A.

Oceanographic Data from the R.R.S. DISCOVERY II

International Geophysical Year

Cruise 3, 1958.

W.H.O.I. Reference No. 59-54

By

L. V. Worthington

November 1959

APPROVED FOR DISTRIBUTION*

Bostwick H. Ketchum
Acting Director



Oceanographic Data from the R.R.S. DISCOVERY II
International Geophysical Year
Cruise 3, 1958.

By

L. V. Worthington

In August and September 1958 a number of oceanographic sections were made in the R.R.S. DISCOVERY II, Captain James Gray, under the scientific leadership of H. F. P. Herdman. These sections comprise part of a joint program undertaken by the National Institute of Oceanography and the Woods Hole Oceanographic Institution for the International Geophysical Year. A previous report (Worthington, 1958) on the first two joint I. G. Y. cruises has already been circulated.

A chart (Fig. 1) shows the positions of the sections made in DISCOVERY II during August and September 1958. Temperature, salinity and oxygen profiles have been drawn for all these sections except that the salinity profile has been omitted from the final section across the Bay of Biscay where difficulties were encountered in the salinometer and the results were clearly erroneous.

In the tabulated data the Latitude and Longitude are given for the mean position of the station. The time (G.M.T.) is that when the messenger is sent on the first (shallow) series. The depth of water is the sonic depth according to Matthews' (1939) tables except when marked

by an asterisk when it is measured by paired protected and unprotected thermometers which reversed on the bottom. The depths of the serial observations are also marked with an asterisk when unprotected thermometers were used.

The salinity was determined with both the British and American conductivity bridge instruments. British and American values are tabulated separately.

The Winkler titration was used to determine oxygen. A discrepancy of about 3% occurred between the American oxygen results (using a potassium dichromate standard) and the British results (using a biniodate standard). Recent comparisons by Carritt (1959) have suggested that the American technique of standardization was in error and accordingly the English results have been tabulated here. The oxygen data for the first two DISCOVERY I. G. Y. cruises (Worthington, 1958) were tabulated using the American system. They can be made approximately comparable to the data presented here by multiplying all the results by 1.03 but they should in any case be regarded with some suspicion.

Silicate and phosphate were determined according to the methods described by Armstrong (1954) and Harvey (1948).

The soundings (in meters, corrected for sound velocity) are plotted in pages 57 to 75. They have also been

plotted as profiles with a distortion of 1:100. These profiles are enclosed in a pocket on the back cover.

The scientific party consisted of H. F. P. Herdman, scientist in charge, R. A. Cox, D. M. Davis, M. Harris and J. McMullen from the National Institute of Oceanography, B. V. Hamon from the Commonwealth Scientific and Industrial Research Organization (Australia), L. V. Worthington, J. S. Farlow, and D. H. Shonting from the Woods Hole Oceanographic Institution, H. W. Field and R. Peck from King Edward's School, Witley. The United States participation in this program was supported by the Office of Naval Research Contract Nonr 2196(00) with the Woods Hole Oceanographic Institution.

References

- Armstrong, F.A.J. The determination of silicate in Sea Water. *J. Mar. Bio. Ass.* 30, 1951, 149-160.
- Carritt, Dayton E. The Oxygen problem - some measurements, notes and comments. 1959. Unpublished.
- Harvey, H.W. The estimation of Phosphate and total Phosphorus in Sea Waters. *J. Mar. Bio. Ass.* 27, 1948, 337-359.
- Matthews, D.J. Tables of the velocity of sound in pure water and in sea water. Hydrographic Department, Admiralty. London, 1939.
- Worthington, L.V. Oceanographic Data from the R.R.S. DISCOVERY II. International Geophysical Year Cruises One and Two, 1957. W.H.O.I. Ref. No. 58-30.

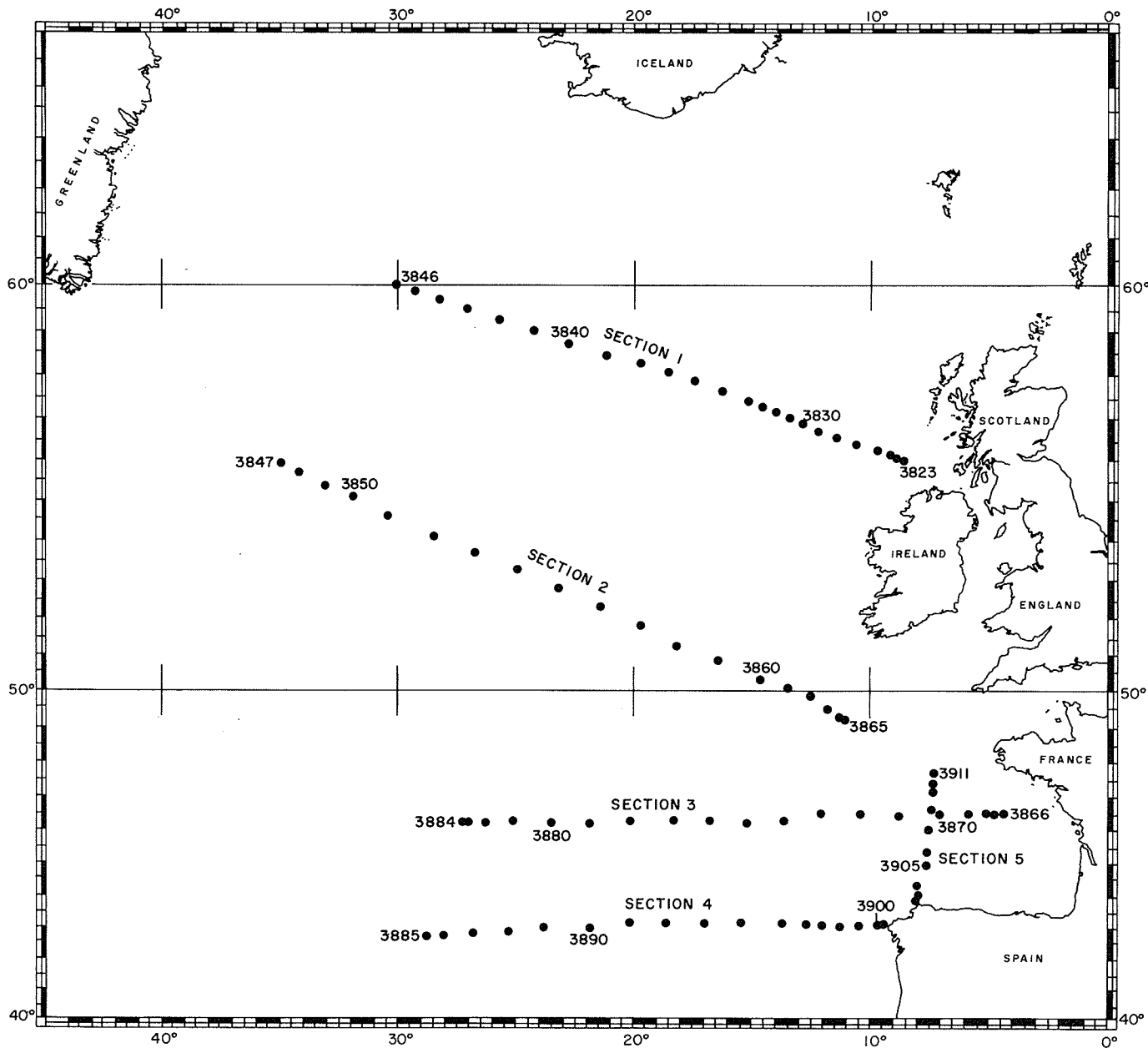
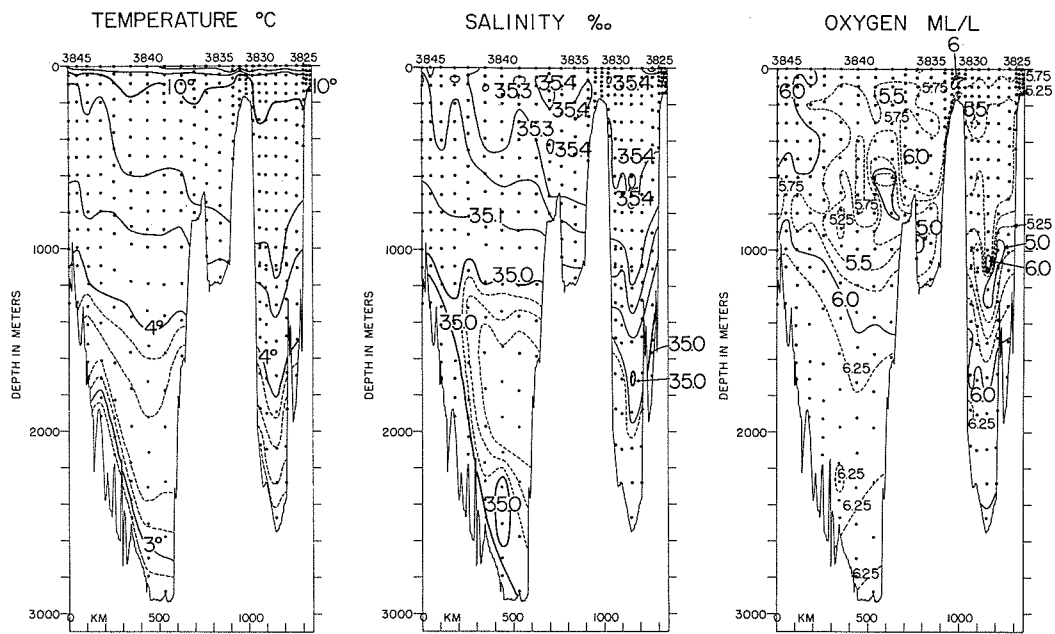
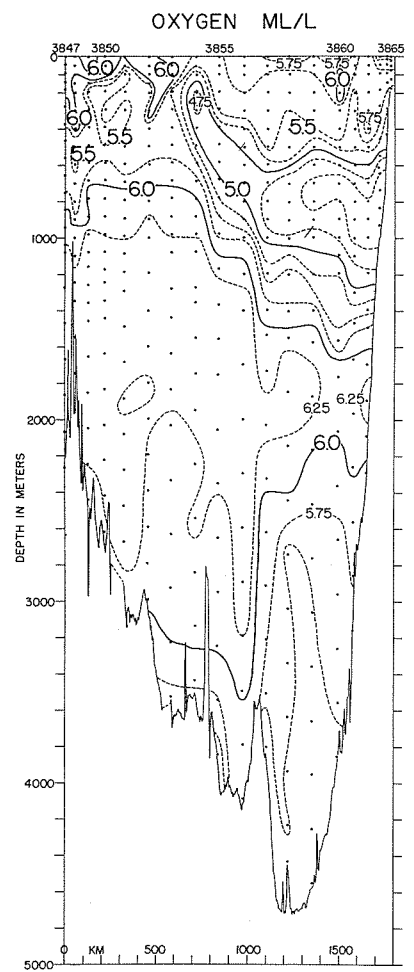
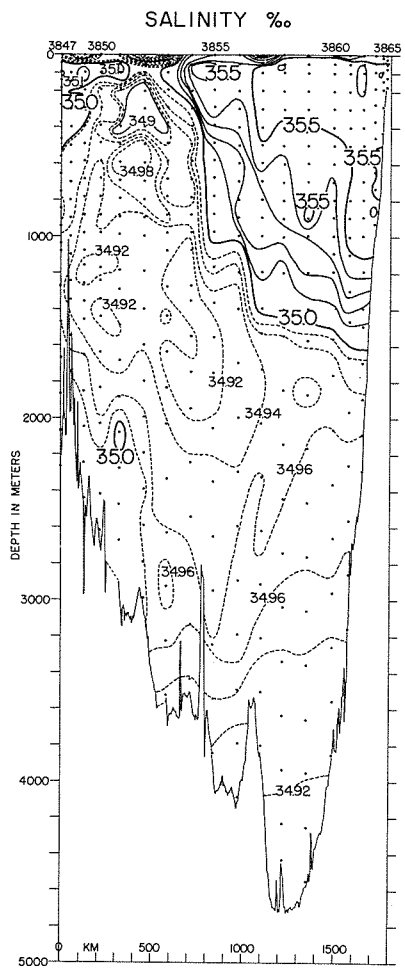
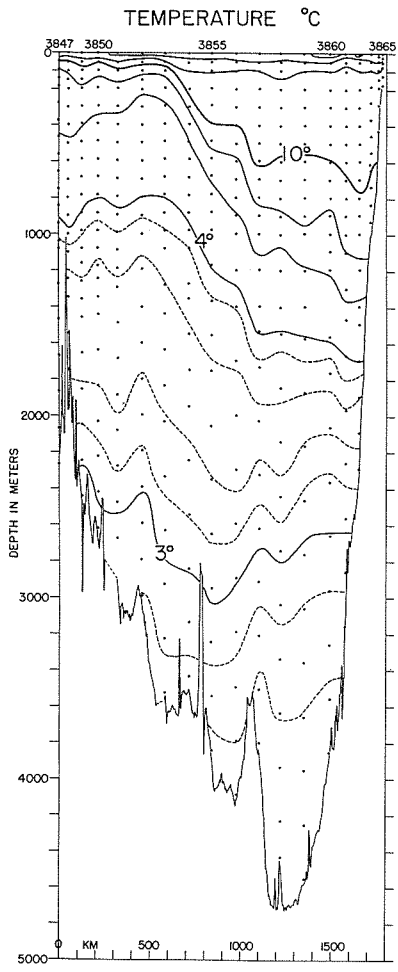


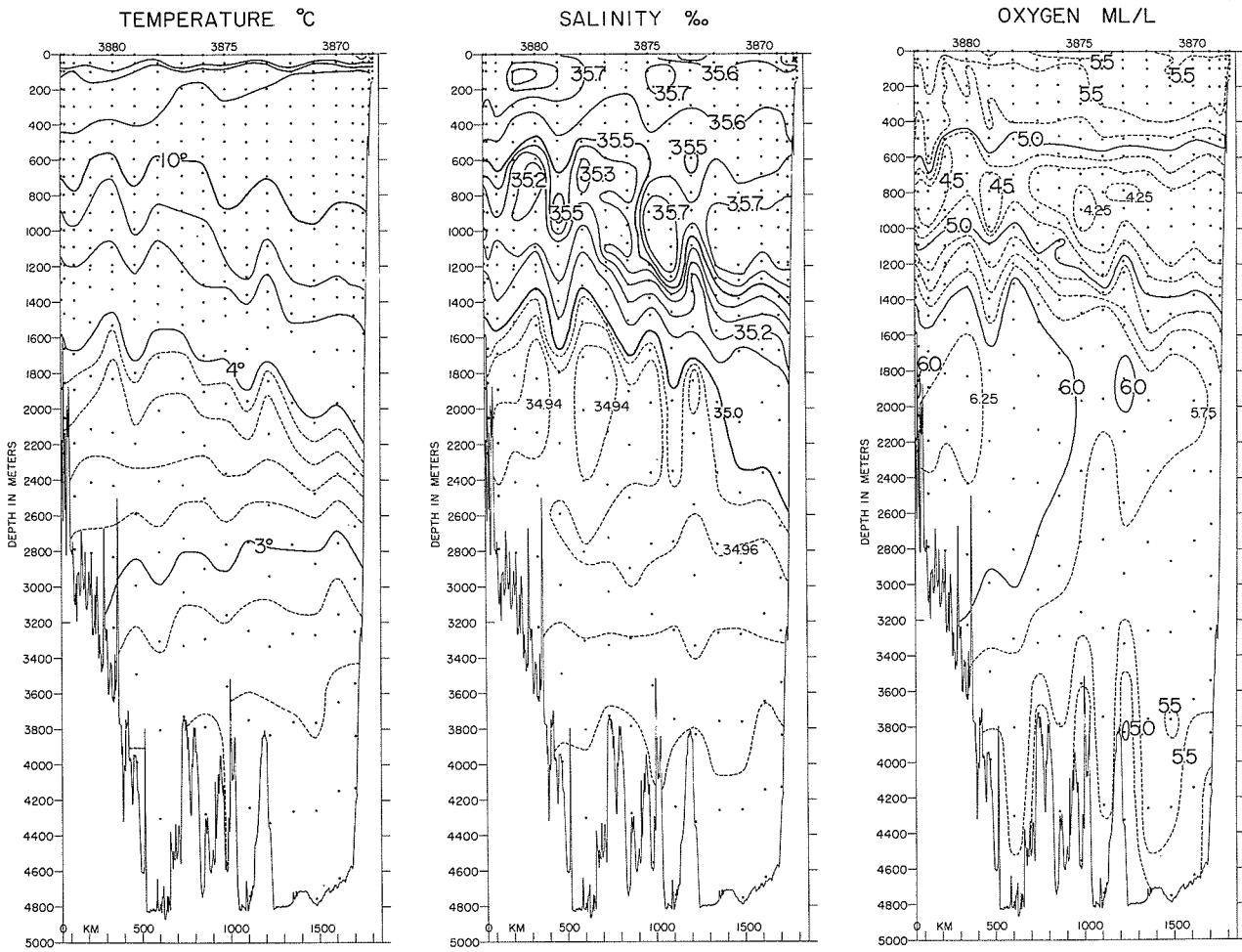
FIGURE I



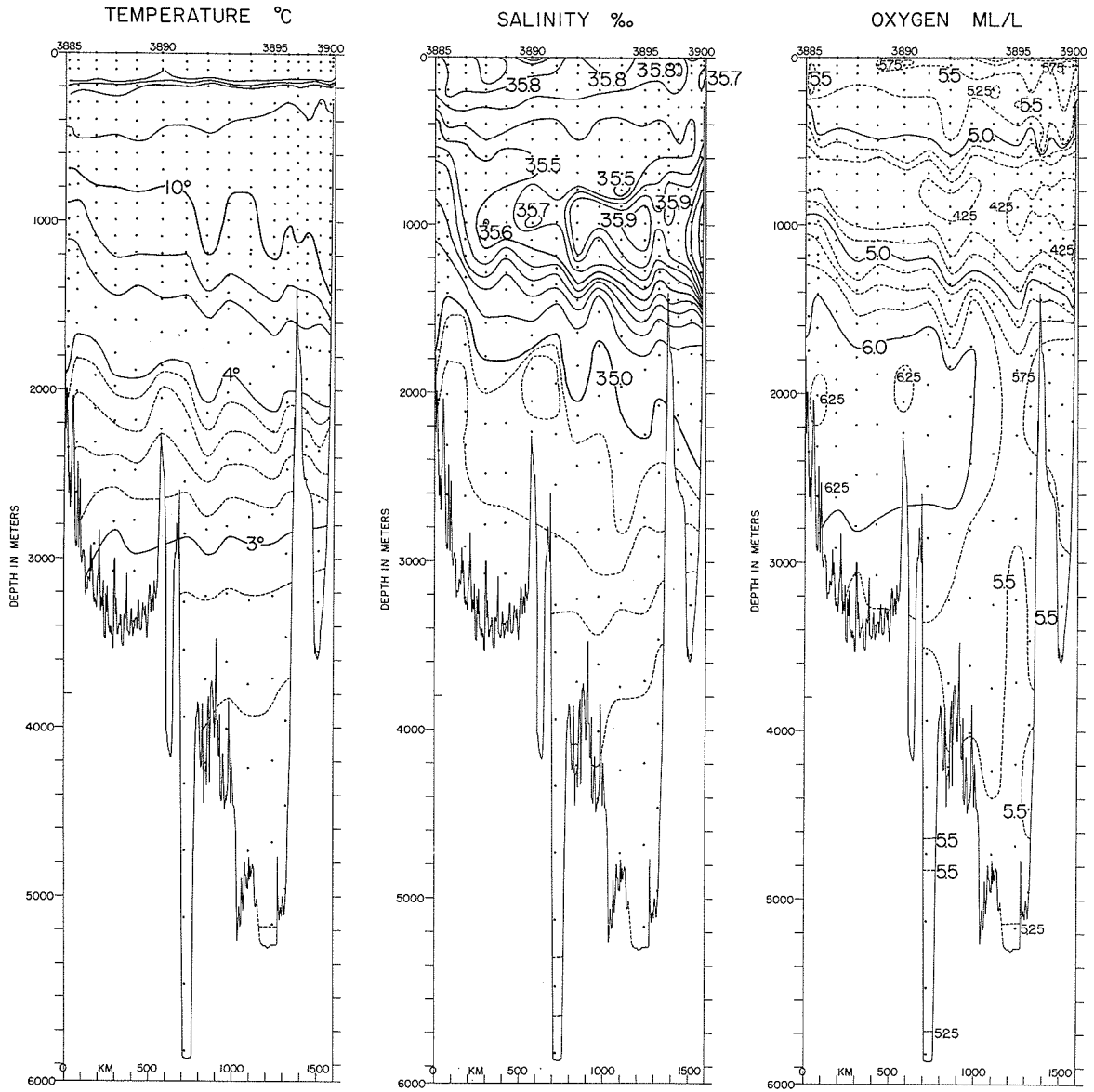
SECTION I. 18-22 AUGUST, 1958



SECTION 2. 24-30 AUGUST, 1958

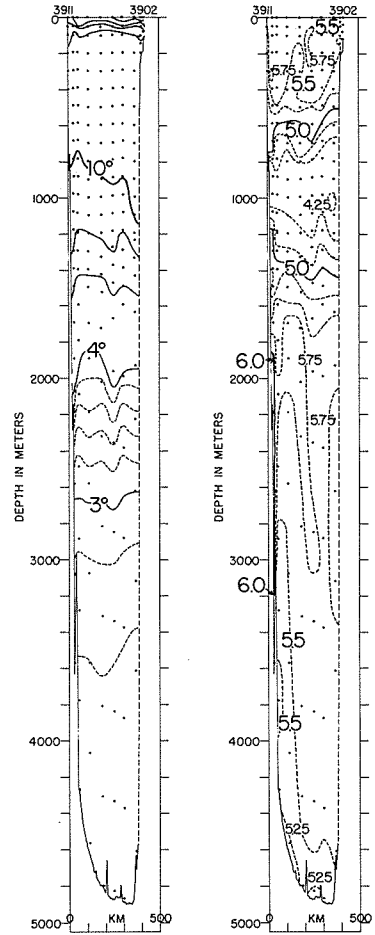


SECTION 3. 4-10 SEPTEMBER, 1958



SECTION 4. 12-16 SEPTEMBER, 1958

TEMPERATURE °C OXYGEN ML/L



SECTION 5. 20-23 SEPTEMBER, 1958

DISCOVERY II I.G.Y. CRUISE 3 STATION 3823
 DATE 18 VIII 1958 LAT. 56° 00' N LONG. 80 40' W
 DEPTH 143 m GMT 0524

DEPTH m	T °C	SALINITY U.S.	SALINITY °/∞ G.B.	O ₂ ml/l	P04-P ug at/l	Si03-Si ug at/l
1	14.82	35.279	35.267	5.73	0.28	3.2
25	13.66	35.343	35.332	5.95	0.26	2.3
50	11.01	35.388	35.383	5.57	0.65	1.9
75*	10.18	35.443	35.425	5.41	0.86	7.7
100	10.11	35.432	35.409	5.43	0.99	8.7
134*	9.84	35.337	35.414	5.34	0.99	6.0

DISCOVERY II I.G.Y. CRUISE 3 STATION 3824
 DATE 18 VIII 1958 LAT. 56° 04' N LONG. 80 57' W
 DEPTH 146 m GMT 0706

DEPTH m	T °C	SALINITY U.S.	SALINITY °/∞ G.B.	O ₂ ml/l	P04-P ug at/l	Si03-Si ug at/l
1	15.42	35.428	35.300	5.76	0.21	2.1
25	13.52	35.471	35.346	5.86	0.26	2.1
50	11.45	35.417	35.415	5.65	0.61	2.3
74*	10.64	35.357	35.438	5.41	0.80	4.1
99	10.23	35.448	35.440	5.13	0.84	6.0
139*	10.17	35.479	35.413	5.35	0.84	5.2

DISCOVERY II I.G.Y. CRUISE 3 STATION 3826
 DATE 18 VIII 1958 LAT. 56° 14'N LONG. 90° 47'W
 DEPTH 1743 m GMT 1148

DEPTH m	T °C	SALINITY U.S.	SALINITY °/oo G.B.	O ₂ ml/l	P04-P ug at/l	SiO ₃ -Si ug at/l
1	14.94	35.276	35.250	5.91		
50	11.42	35.447	35.425	5.76		
100	10.40	35.444	35.441	5.69		
150*	10.10	35.474	35.428	5.75		
228*	9.79	35.436	35.416	5.83		
326	9.61	35.424	35.412	5.90		
423*	9.41	35.410	35.383	5.83		
519	9.12	35.381	35.351	5.83		
614*	8.92	35.362	35.347	5.90		
711	8.62	35.346	35.327	5.69		
907*	6.86	35.236	35.206	5.11		
1105	5.62	35.119	35.088	5.47		
1303*	4.73	35.047	35.029	5.78		
1501	4.04	34.991	34.951	6.04		
1699*	3.76	34.987	34.935	6.15		

DISCOVERY II I.G.Y. CRUISE 3 STATION 3825
 DATE 18 VIII 1958 LAT. 56° 07'N LONG. 90° 13'W
 DEPTH 452 m GMT 0849

DEPTH m	T °C	SALINITY U.S.	SALINITY °/oo G.B.	O ₂ ml/l	P04-P ug at/l	SiO ₃ -Si ug at/l
1	15.14	35.343	35.328	5.86	0.25	1.9
23	12.99	35.412	35.397	5.76	0.39	2.4
46	11.37	35.448	35.439	5.71	0.61	2.1
69*	10.77	35.456	35.442	5.66	0.78	6.5
92	10.49	35.467	35.443	5.69	0.71	4.3
139*	10.30	35.459	35.447	5.69	0.80	3.9
187	10.12	35.441	35.444	5.78	0.78	4.9
235*	9.94	35.444	35.448	5.69	0.80	5.8
333	9.80	35.443	35.414	5.73	0.82	4.4
434*	9.68	35.423	35.430	5.72	0.82	6.6

DISCOVERY I I.G.Y. CRUISE 3 STATION 3827.1
 DATE 18 VIII 1958 LAT. 56° 26'N LONG. 10° 38'W
 DEPTH 2280 m GMT 1742

DEPTH m	T °C	SALINITY U.S.	SALINITY °/∞ G.B.	O ₂ ml/l	P04-P ug at/l	SiO ₃ -Si ug at/l
1	14.36	35.405	35.385	5.99	0.79	1.5
50	10.74	35.476	35.457	5.68	0.82	5.1
99	10.45	35.463	35.437	5.69	0.80	5.2
149*	10.20	35.456	35.421	5.67	0.80	5.1
199	9.95	35.452	35.436	5.78	0.96	5.8
298*	9.77	35.443	35.415	5.79	0.92	6.5
397	9.61	35.894?	35.403	5.88	0.88	7.3
497*	9.49	35.419	35.399	5.88	1.04	8.0
596	9.29	35.391	35.391	5.79	0.80	6.5
695*	9.07	35.393	35.353	5.78	0.89	5.9
794	8.75	35.354	35.320	5.53	1.01	9.6
894*	8.27	35.306	35.295	5.15	1.13	11.5
993	7.65	35.301	35.201	4.81	1.14	12.9
1092*	6.90	35.228	35.251	5.06	1.00	13.2
1080*	7.05	35.229	35.223	5.04	1.01	13.3
1179	6.33	35.206	35.178	5.24	1.03	13.4
1278*	5.77	35.147	35.108	5.44	1.03	12.3
1378	5.13	35.098	35.045	5.65	1.08	14.7
1478*	4.46	35.014	34.998	5.90	1.08	14.6
1678	3.90	35.013	34.942	6.14	1.08	12.3
1877*	3.53	34.970	34.942	6.15	1.03	12.3
2077	3.44	34.955	34.949	6.12	1.03	13.6
2277*	3.30	34.958	34.961	6.01	1.00	18.8

DISCOVERY I I.G.Y. CRUISE 3 STATION 3828
 DATE 19 VIII 1958 LAT. 56° 36'N LONG. 11° 31'W
 DEPTH 2546 m GMT 0006

DEPTH m	T °C	SALINITY U.S.	SALINITY °/∞ G.B.	O ₂ ml/l	P04-P ug at/l	SiO ₃ -Si ug at/l
1	14.63	35.420	35.389	5.96	0.22	0.7
50	11.22	35.453	35.438	5.93	0.61	1.5
99	10.50	35.454	35.439	5.67	0.74	2.4
149*	10.22	35.465	35.417	5.62	0.72	2.4
199	9.99	35.456	35.424	5.78	0.81	2.3
298*	9.79	35.483?	35.425	5.85	0.81	3.3
397	9.61	35.427	35.405	5.86	0.81	3.9
497*	9.41	35.434	35.393	5.83	0.81	4.8
596	9.29	35.396	35.390	5.83	0.76	3.2
696*	9.27	35.408	35.387	5.97	0.67	---
795	9.17	35.390	35.361	5.94	0.81	---
895*	9.07	35.377	35.358	5.94	0.81	11.1
994	8.93	35.359	35.345	5.98	0.80	9.4
1093*	8.69	35.346	35.306	6.07	0.85	10.5
1114*	8.49	35.341	35.290	5.38	0.85	7.6
1211	7.65	35.279	35.247	4.85	0.90	10.3
1309*	6.69	35.222	35.193	5.02	1.06	10.5
1505	5.21	35.076	35.050	5.58	1.03	12.0
1700	4.36	34.999	34.967	5.93	1.13	9.6
1895	3.87	35.005	34.955	6.17	1.16	10.4
2091*	3.60	34.972	34.925	6.15	1.16	13.9
2282	3.42	34.969	34.933	6.14	1.22	15.3
2471*	3.13	34.974	34.945	5.92	1.02	22.8

DISCOVERY II I.G.Y. CRUISE 3 STATION 3829
 DATE 19 VIII 1958 LAT. 56° 46'N LONG. 120° 22'W
 DEPTH 2280 m GMT 0543

DEPTH m	T °C	SALINITY ‰		O ₂ ml/l	PO ₄ -P ug at/l	SiO ₃ -Si ug at/l
		U.S.	G.B.			
1	15.00	35.446	35.431	5.88	0.09	1.9
50	11.56	35.464	35.445	5.72	0.53	1.7
99	10.86	35.448	35.433	5.67	0.61	2.1
149*	10.62	35.463	35.447	5.75	0.60	4.8
199	10.46	35.437	35.415	5.62	0.74	8.8
298*	9.93	35.421	35.000?	5.51	0.97	6.3
398	9.79	35.580?	35.420	5.80	0.67	5.5
497*	9.60	35.430	35.410	5.78	0.67	5.0
596	9.30	35.384	35.357	5.72	0.81	4.5
696*	9.10	35.386	35.346	5.69	0.75	4.1
795	8.92	35.379	35.343	5.75	0.90	4.5
895*	8.51	35.322	35.284	5.50	1.01	4.9
994	7.82	35.277	35.264	5.07	1.30	10.3
1093*	6.89	35.228	35.201	5.08	1.22	----
1112*	6.93	35.166	35.228	5.07	1.10	19.3
1211	6.08	35.158	35.145	5.24	1.14	17.0
1311*	5.49	35.117	35.087	5.51	1.12	16.8
1411	4.97	35.049	35.064	5.65	1.33	16.8
1512*	4.57	35.018	34.994	5.86	1.28	18.0
1708	3.98	34.968	34.959	6.07	1.27	18.0
1902*	3.68	34.962	34.942	6.21	1.33	18.8
2099	3.50	34.974	34.974	----	1.18	21.3

DISCOVERY II I.G.Y. CRUISE 3 STATION 3830
 DATE 19 VIII 1958 LAT. 56° 54'N LONG. 120° 56'W
 DEPTH 2129 m GMT 0956

DEPTH m	T °C	SALINITY ‰		O ₂ ml/l	PO ₄ -P ug at/l	SiO ₃ -Si ug at/l
		U.S.	G.B.			
1	15.07	35.431	35.414	5.94	0.23	3.2
49	11.74	35.477	35.457	5.78	0.59	5.2
98	11.04	35.462	35.463	5.67	0.66	6.1
147*	10.73	35.447	35.428	5.62	0.73	8.5
196	10.59	35.431	35.442	5.64	0.77	5.1
295*	10.08	35.414	35.388	5.46	0.92	8.6
393	9.91	35.432	35.429	5.78	0.76	9.5
492*	9.59	35.413	35.390	5.75	0.81	6.7
590	9.52	35.416	35.397	5.90	0.84	7.5
688*	9.23	35.387	35.383	5.72	0.85	9.8
786	8.94	35.361	35.335	5.75	0.76	7.0
885*	8.58	35.320	35.320	5.43	1.15	9.7
983	7.97	35.275	35.260	5.26	1.16	9.1
1081*	7.29	35.233	35.243	5.34	1.11	11.4
997*	7.82	35.266	35.247	5.36	1.02	13.4
1094	7.14	35.220	35.201	5.32	1.01	12.2
1192*	6.13	35.169	35.184	5.57	1.05	15.4
1290	5.45	35.113	35.081	5.80	0.97	12.5
1387	4.90	35.079	35.073	5.95	1.10	13.4
1485	4.27	35.011	34.990	6.05	1.18	13.9
1680*	3.76	34.964	34.972	5.80	1.14	14.3
1876	3.59	34.970	34.957	6.31	1.10	18.0
2071*	3.18	34.970	34.956	6.06	1.05	23.1

DISCOVERY II I.G.Y. CRUISE 3 STATION 3832
 DATE 19 VIII 1958 LAT. 57° 10'N LONG. 140° 02'W
 DEPTH 165 m GMT 1622

DEPTH m	T °C	SALINITY U.S.	°/∞ G.B.	O ₂ ml/l	PO ₄ -P ug at/l	SiO ₃ -Si ug at/l
1	14.97	35.379		5.87	0.13	2.1
24	14.43	35.377		5.82	0.13	2.2
49*	10.40	35.370		6.04	0.72	4.7
73	9.33	35.369		5.86	0.75	4.7
97*	9.01	35.386		5.67	0.95	8.6
126	9.02	35.378		5.49?	0.85	10.4
156*	9.05	35.367		5.62	0.92	11.2

DISCOVERY II I.G.Y. CRUISE 3 STATION 3831
 DATE 19 VIII 1958 LAT. 57° 00'N LONG. 130° 29'W
 DEPTH 393 m GMT 1345

DEPTH m	T °C	SALINITY U.S.	°/∞ G.B.	O ₂ ml/l	PO ₄ -P ug at/l	SiO ₃ -Si ug at/l
1	15.14	35.426		5.84	0.16	1.5
25	-----	35.411		5.94	0.28	1.3
50	11.61	35.377		5.83	0.61	1.3
99*	9.87	35.427		5.73	0.85	5.6
149	9.67	35.408		5.67	0.68	6.2
223*	9.50	35.410		5.70	0.89	9.7
297	9.35	35.389		5.77	0.76	10.0
372*	9.15	35.378		5.78	0.80	11.1

DISCOVERY II I.G.Y. CRUISE 3 STATION 3834

DATE 19 VIII 1958 LAT. 57° 24'N LONG. 150 11'W

DEPTH 540 m GMT 2135

DEPTH m	T °C	SALINITY U.S.	SALINITY G.B.	O ₂ ml/l	P04-P ug at/l	Si03-Si ug at/l
1	15.14	35.390		4.24?	0.06	0.3
20	14.74	35.365		5.97	0.11	0.0
69	10.29	35.412		5.67	0.68	4.2
118*	9.95	35.411		5.87	0.72	4.6
167	9.75	35.408		5.90	0.67	3.8
217*	9.60	35.392		5.97	0.74	5.5
266	9.52	35.386		5.90	0.75	4.5
315*	9.43	35.378		5.80	0.70	5.5
414	9.19	35.383		5.27	0.72	7.1
512*	8.89	35.340		5.40	0.92	9.7

DISCOVERY II I.G.Y. CRUISE 3 STATION 3833

DATE 19 VIII 1958 LAT. 57° 17'N LONG. 140 37'W

DEPTH 227 m GMT 1858

DEPTH m	T °C	SALINITY U.S.	SALINITY G.B.	O ₂ ml/l	P04-P ug at/l	Si03-Si ug at/l
1	15.01	35.334		5.57	0.15	1.5
25	11.92	35.342		5.87	0.50	3.0
50*	9.50	35.373		5.90	0.72	4.7
75	9.30	35.372		6.04	0.64	3.6
140*	9.11	35.363		5.82	0.79	6.7
180	8.96	35.363		5.45	0.92	10.2
220*	8.95	35.365		5.23	0.85	11.3

DISCOVERY II I.G.Y. CRUISE 3 STATION 3836
 DATE 20 VIII 1958 LAT. 57° 52'N LONG. 17° 30'W
 DEPTH 1066 m GMT 0735

DEPTH m	T °C	SALINITY U.S.	°/∞ G.B.	O ₂ ml/l	P04-P ug at/1	Si03-Si ug at/1
1	14.25	35.359		5.73	0.09	1.6
50	11.09	35.369		5.81	0.53	4.4
99	10.14	35.359		5.72	0.72	4.4
149	9.95	35.386		5.80	0.65	5.1
248*	9.55	35.370		5.71	0.76	8.6
347	9.39	35.364		5.83	0.65	6.9
446*	9.24	35.363		5.85	0.68	8.6
545	9.12	35.355		5.88	0.72	9.4
644*	8.89	35.335		5.85	0.75	8.0
743	8.21	35.260		5.37	0.91	10.4
842*	7.40	35.199		5.11	1.06	14.1
941	6.72	35.184		4.97	1.15	13.5
1040	6.12	35.131		5.07	1.15	17.5

DISCOVERY II I.G.Y. CRUISE 3 STATION 3835
 DATE 20 VIII 1958 LAT. 57° 38'N LONG. 16° 21'W
 DEPTH 1196 m GMT 0230

DEPTH m	T °C	SALINITY U.S.	°/∞ G.B.	O ₂ ml/l	P04-P ug at/1	Si03-Si ug at/1
1	14.60	35.383		5.93	0.09	0.0
47	10.80	35.351		5.86	0.10	2.3
94	10.10	35.373		5.77	0.74	3.4
188*	9.83	35.404		5.83	0.69	5.5
283	9.54	35.390		5.62	0.72	5.0
378*	9.41	35.375		5.83	0.85	5.0
475	9.25	35.370		6.02	0.69	7.0
571*	9.09	35.349		5.91	0.76	7.8
668	8.90	35.332		5.86	0.70	7.8
765*	8.32	35.267		5.04	0.97	14.6
862	7.63	35.213		5.02	1.02	14.3
960*	6.91	35.184		5.18	1.06	15.1
1058	6.01	35.130		5.24	1.10	18.0
1157*	4.75	35.026		5.54	1.12	21.4

DISCOVERY II I.G.Y. CRUISE 3 STATION 3837
 DATE 20 VIII 1958 LAT. 58° 05'N LONG. 180 34'W
 DEPTH 847 m GMT 1223

DEPTH m	T °C	SALINITY U.S.	SALINITY °/∞ G.B.	O ₂ ml/1	P04-P ug at/1	Si03-Si ug at/1
1	14.24	35.375		5.87	0.08	2.1
29	12.67	35.375		5.85	0.36	0.6
78	10.83	35.419		5.66	0.72	5.1
127*	10.42	35.401		5.49	0.75	5.6
176	10.25	35.419		5.64	0.72	3.8
225*	9.95	35.386		5.78	0.85	4.3
323	9.65	35.386		5.80	0.76	11.3
421*	9.44	35.417		5.91	0.76	6.4
517	9.27	35.371		5.99	0.86	7.3
611*	9.00	35.340		5.82	0.88	12.4
704	8.57	35.293		5.61	0.88	9.5
797*	7.56	35.200		5.07	1.30	11.6

DISCOVERY II I.G.Y. CRUISE 3 STATION 3838
 DATE 20 VIII 1958 LAT. 58° 18'N LONG. 190 45'W
 DEPTH 1639 m GMT 1722

DEPTH m	T °C	SALINITY U.S.	SALINITY °/∞ G.B.	O ₂ ml/1	P04-P ug at/1	Si03-Si ug at/1
1	14.50	35.355		5.87	0.20	5.4
50	10.94	35.408		5.79	0.72	2.1
99	10.32	35.374		5.62	0.76	3.9
198*	9.80	35.350		5.59	0.70	7.3
298	9.37	35.334		5.55	0.95	7.8
397*	9.03	35.306		5.37	0.99	8.6
496	8.51	35.261		5.36	0.89	10.2
595*	7.88	35.215		4.72	0.99	10.4
694	7.30	35.164		5.16	1.14	11.1
794*	6.70	35.147		4.98	1.14	14.9
992	5.16	35.019		5.41	1.14	13.9
1190*	4.46	34.997		5.82	1.10	14.4
1389	3.89	34.953		5.89	1.12	12.8
1587*	3.50	34.939		6.35	1.06	12.5

DISCOVERY II I.G.Y. CRUISE 3 STATION 3840
 DATE 21 VIII 1958 LAT. 58° 47'N LONG. 22° 48'W
 DEPTH 2864 m GMT 0720

DEPTH m	T °C	SALINITY U.S.	°/oo G.B.	O ₂ ml/l	PO ₄ -P ug at/l	SiO ₃ -Si ug at/l
1	13.89	35.335		5.88	0.31	2.8
50	10.61	35.319		5.82	0.74	4.3
99	10.18	35.339		5.76	0.80	5.6
149*	9.74	35.307		5.69	0.76	9.0
199	9.80	35.388		5.73	0.79	7.4
298*	9.52	35.369		5.72	0.82	7.8
398	9.18	35.323		5.78	0.86	9.3
497*	8.63	35.271		5.76	1.01	11.1
596	8.03	35.208		5.77	1.14	10.9
696	7.61	35.192		5.96	1.26	11.2
795	7.09	35.144		5.71	1.17	10.9
895*	6.18	35.067		5.36	1.06	14.0
994	5.69	35.062		5.28	1.00	14.9
1193*	4.61	34.987		5.77	1.00	14.2
1341*	4.21	34.967		5.94	1.05	14.4
1533	3.88	34.939		6.05	1.00	13.9
1726*	3.69	35.022?		6.22	1.05	9.7
1921	3.60	34.930		6.34	1.06	12.5
2115*	3.56	34.947		6.31	1.05	14.1
2308	3.48	35.016		6.35	1.03	13.3
2504*	3.25	35.010		6.17	1.05	13.3
2697	2.91	34.997		6.20	1.06	17.3
2792*	2.77	35.015		6.19	0.92	16.5

DISCOVERY II I.G.Y. CRUISE 3 STATION 3839
 DATE 20 VIII 1958 LAT. 58° 32'N LONG. 21° 15'W
 DEPTH 2886 m GMT 2353

DEPTH m	T °C	SALINITY U.S.	°/oo G.B.	O ₂ ml/l	PO ₄ -P ug at/l	SiO ₃ -Si ug at/l
1	14.11	35.340		5.87	0.25	2.8
50	11.29	35.294		5.83	0.64	2.0
100	9.90	35.314		5.72	0.78	6.4
150*	9.73	35.339		5.70	0.87	8.4
199	9.40	35.306		6.00	0.92	8.8
298*	8.96	35.279		---	0.95	10.9
398	8.63	35.258		5.31	1.00	11.5
497*	8.26	35.225		5.23	0.96	12.1
595	7.81	35.201		4.68	0.99	12.5
694*	7.29	35.152		5.42	1.08	12.7
794	6.97	35.152		5.57	1.08	11.8
894*	6.22	35.091		5.24	1.18	15.0
994	5.58	35.057		5.29	1.28	15.6
1194*	4.63	34.996		5.71	1.20	14.3
1368*	4.11	34.949		5.97	1.18	14.9
1569	3.81	34.933		6.18	1.09	15.9
1772*	3.64	34.932		6.36	1.12	14.4
1974	3.54	34.928		6.41	1.03	14.0
2276*	3.44	34.958		6.25	1.14	16.8
2577	3.17	34.989		6.19	1.09	19.8
2879*	2.66	34.999		6.30	0.80	14.4

DISCOVERY II I.G.Y. CRUISE 3 STATION 3842

DATE 21 VIII 1958 LAT. 59° 17'N LONG. 25° 42'W

DEPTH 2178 m GMT 2311

DEPTH m	T °C	SALINITY U.S.	°/oo G.B.	O ₂ ml/l	P04-P ug at/l	Si03-Si ug at/l
1	13.30	35.273		5.87	0.17	0.3
45	10.91	35.312		5.88	0.56	3.2
90	9.84	35.279		5.87	0.66	5.9
181*	9.19	35.265		5.72	0.78	9.7
272	8.70	35.238		5.88	0.78	8.7
363*	8.44	35.243		5.77	0.87	10.4
454	7.85	35.201		5.99	0.87	10.3
544*	7.22	35.128		5.76	0.92	12.0
634	6.75	35.101		5.54	1.01	12.6
726*	6.63	35.143		5.95	0.93	11.9
820	5.80	35.084		5.42	1.08	12.7
919*	5.21	35.029		5.59	1.08	13.4
1118	4.35	34.984		6.11	1.09	13.9
1318*	3.93	34.956		6.26	1.01	12.3
1626*	3.58	34.964		6.35	1.01	12.1
1825	3.47	34.983		6.31	1.66	13.9
1925*	3.21	34.991		6.25	1.01	13.9
2025	2.95	35.021		6.33	1.01	15.6
2125*	2.74	35.116?		6.28	0.92	13.3

DISCOVERY II I.G.Y. CRUISE 3 STATION 3841

DATE 21 VIII 1958 LAT. 59° 01'N LONG. 24° 19'W

DEPTH 2504 m GMT 1519

DEPTH m	T °C	SALINITY U.S.	°/oo G.B.	O ₂ ml/l	P04-P ug at/l	Si03-Si ug at/l
1	13.61	35.334		5.93	0.36	0.9
48	10.65	35.324		5.77	0.69	---
97	10.11	35.292		5.72	0.76	5.1
194*	9.93	35.361		5.58	0.93	6.8
295	9.51	35.340		5.77	0.72	5.7
390*	9.18	35.324		5.77	0.72	9.4
488	8.02	35.259		5.70	0.80	9.9
586*	8.06	35.199		5.43	0.84	11.3
683	7.62	35.176		5.54	0.86	11.8
779*	6.89	35.111		5.07	0.98	14.5
877	6.13	35.064		5.18	1.00	17.3
975*	4.45	35.038		5.34	1.01	16.4
1175	4.52	35.001		5.87	1.05	15.6
1375*	3.92	34.945		6.20	0.98	15.1
1568*	3.73	34.929		6.26	0.96	15.1
1768	3.58	34.932		6.34	1.00	15.0
1968*	3.51	34.949		6.36	0.95	16.2
2169	3.40	34.972		6.25	0.95	17.1
2271*	3.23	34.984		6.21	0.95	16.8
2372	3.03	34.994		6.28	0.95	18.0
2473*	2.72	35.003		6.29	0.87	16.8

DISCOVERY II I.G.Y. CRUISE 3 STATION 3844

DATE 22.VIII.1958 LAT. 59° 42'N LONG. 28° 19'W

DEPTH 1743 m GMT 1136

DEPTH m	T °C	SALINITY U.S.	°/oo G.B.	O ₂ ml/l	PO ₄ -P ug at/l	SiO ₃ -Si ug at/l
1	12.44	35.282		6.14	0.29	0.8
50	9.38	35.291		5.85	0.80	6.1
100	8.83	35.285		5.90	0.86	8.4
199*	8.28	35.258		5.94	0.89	9.2
299	7.85	35.232		6.04	0.92	9.5
399*	7.52	35.212		6.05	1.18	10.6
499	7.23	35.186		6.07	0.99	9.8
598*	7.01	35.176		5.94	0.99	10.2
698	6.63	35.130		5.72	1.05	10.7
798*	6.23	-----		5.65	1.08	11.7
897	5.62	35.078		5.78	1.09	12.4
997*	4.91	35.040		5.99	1.08	12.5
1097	4.40	35.024		6.23	1.06	11.3
1196*	3.96	34.993		6.37	1.06	12.1
1316*	3.65	35.004		6.44	1.03	13.2
1418	3.56	35.014		6.46	1.06	11.8
1520*	3.50	35.102?		6.47	1.03	12.4
1622	3.47	35.029		6.46	1.03	12.5
1723*	3.41	35.008		6.40	1.03	11.6

DISCOVERY II I.G.Y. CRUISE 3 STATION 3843

DATE 22.VIII.1958 LAT. 59° 30'N LONG. 27° 06'W

DEPTH 1938 m GMT 0534

DEPTH m	T °C	SALINITY U.S.	°/oo G.B.	O ₂ ml/l	PO ₄ -P ug at/l	SiO ₃ -Si ug at/l
1	12.84	35.236		6.05	0.25	1.4
50	9.65	35.193		6.10	0.67	1.8
99	8.46	35.218		5.90	0.88	5.6
198*	7.89	35.185		5.74	0.96	---
297	7.55	35.176		5.98	0.96	7.1
396	7.31	35.186		6.04	0.96	8.0
496	7.19	35.184		6.14	1.00	8.4
595*	6.85	35.165		5.89	1.01	7.8
694	6.44	35.176		5.88	1.05	9.7
793*	6.05	35.111		5.72	0.83	9.8
892	5.33	35.068		5.83	1.01	9.9
991*	4.59	35.012		5.97	1.10	13.7
1090	4.43	35.016		6.14	1.05	11.0
1189*	4.15	35.010		6.28	1.01	10.7
1410*	3.65	34.989		6.35	1.01	13.5
1611	3.40	35.008		6.38	1.03	14.8
1712*	3.16	34.926?		6.41	1.00	15.1
1813	2.84	35.004		6.43	1.01	15.8
1915*	2.71	35.031		6.44	0.96	15.7

DISCOVERY II I.G.Y. CRUISE 3 STATION 3846

DATE 22 VIII 1958 LAT. 60° 01'N LONG. 30° 05'W

DEPTH 1373 m GMT 2011

DEPTH m	T °C	SALINITY U.S.	SALINITY °/oo G.B.	O ₂ ml/l	PO ₄ -P ug at/l	SiO ₃ -Si ug at/l
1	12.35	35.230		6.24	0.26	0.3
50	9.05	35.094		6.01	0.74	2.8
100	7.87	35.142		6.04	0.87	7.3
200*	7.33	35.154		6.20	0.92	10.3
300	6.83	35.124		6.17	0.99	10.9
399*	7.02	35.162		6.11	1.00	9.9
499	6.93	35.158		6.03	0.99	10.2
598*	6.25	35.107		5.68	1.06	11.6
698	5.62	35.060		5.57	1.06	11.9
797*	5.01	35.028		5.71	1.09	11.7
897	4.58	35.011		5.94	1.09	11.6
997*	4.25	35.009		6.15	1.06	11.3
1098	4.02	35.006		6.35	1.05	11.8
1299*	3.95	35.004		6.36	1.09	13.3

DISCOVERY II I.G.Y. CRUISE 3 STATION 3845

DATE 22 VIII 1958 LAT. 59° 53'N LONG. 29° 18'W

DEPTH 1293 m GMT 1635

DEPTH m	T °C	SALINITY U.S.	SALINITY °/oo G.B.	O ₂ ml/l	PO ₄ -P ug at/l	SiO ₃ -Si ug at/l
1	12.45	35.176		6.18	0.26	0.7
50	9.77	35.218		6.24	0.65	3.3
99	7.94	35.242		6.21	0.86	7.2
199*	7.25	35.187		6.10	0.98	10.2
298	7.09	35.186		6.16	0.95	10.9
397*	6.97	35.177		6.08	1.03	10.9
497	6.60	35.145		5.93	1.03	10.9
596*	6.13	35.123		5.77	1.06	12.8
695	5.60	35.150?		5.82	1.06	13.3
794*	5.01	35.041		5.94	1.06	12.7
894	4.64	35.041		6.10	1.06	14.0
993*	4.14	35.012		6.21	1.06	11.1
1092	3.88	34.997		6.36	1.09	12.2
1292*	3.81	35.028		6.35	1.06	12.1

DISCOVERY II I.G.Y. CRUISE 3 STATION 3848

DATE 24 VIII 1958 LAT. 55° 42'N LONG. 34° 16'W

DEPTH 1973 m GMT 0731

DEPTH m	T °C	SALINITY U.S.	°/∞ G.B.	O ₂ ml/l	P ₀₄ -P ug at/l	SiO ₃ -Si ug at/l
1	12.81	34.924		6.03	0.50	0.3
50	9.27	35.012		6.10	0.88	5.8
100	8.07	35.026		5.94	0.96	6.2
150*	7.46	35.045		5.86	1.09	9.5
200	6.96	34.999		5.76	1.18	10.3
299*	6.89	35.070		6.12	1.18	9.9
399	6.47	35.040		6.02	1.18	10.3
499*	5.65	34.967		5.47	1.22	12.8
599	5.06	34.966		5.45	1.30	13.9
699*	4.76	34.978		5.60	1.30	11.2
798	4.40	34.965		5.51	1.30	9.6
898*	4.17	34.969		5.91	1.27	9.9
998	3.89	34.945		6.18	1.32	11.0
1098*	3.72	34.947		6.21	1.15	9.3
1246*	3.54	34.927		6.36	1.28	10.3
1346	3.51	34.936		6.41	1.12	12.1
1545*	3.49	34.954		6.40	1.12	9.7
1745	3.42	34.978		6.40	1.09	11.5
1944*	3.30	34.995		6.32	1.06	11.5

DISCOVERY II I.G.Y. CRUISE 3 STATION 3847

DATE 24 VIII 1958 LAT. 55° 57'N LONG. 34° 59'W

DEPTH 2290 m GMT 0230

DEPTH m	T °C	SALINITY U.S.	°/∞ G.B.	O ₂ ml/l	P ₀₄ -P ug at/l	SiO ₃ -Si ug at/l
1	12.64	34.951		6.10	0.36	0.1
46	9.36	35.063		6.10	0.76	4.2
92	7.95	35.108		6.12	0.95	7.3
139*	7.36	35.043		6.07	0.99	8.6
185	7.08	35.071		6.01	0.93	10.9
278*	6.90	35.082		5.99	1.12	11.5
372	6.44	35.049		5.79	1.00	10.7
466*	5.88	35.051		5.57	1.10	13.8
560	5.18	34.961		5.59	1.09	12.7
655	4.84	34.980		5.62	1.09	13.2
750	4.36	34.964		5.81	1.15	14.4
845*	4.13	34.943		6.04	1.22	13.1
941	3.92	34.966		6.23	1.18	12.7
1037*	3.75	34.938		6.26	1.14	14.6
1077*	3.74	34.951		6.32	1.12	12.2
1273	3.60	34.941		6.36	1.20	11.7
1469*	3.51	34.961		6.39	1.15	16.0
1667	3.46	34.976		6.36	1.18	12.9
1866*	3.41	34.980		6.34	1.12	12.9
2066	3.41	34.990		6.31	1.14	16.2
2266*	3.42	34.986		6.21	1.14	13.9

DISCOVERY II I.G.Y. CRUISE 3 STATION 3849
 DATE 24 VIII 1958 LAT. 55° 25'N LONG. 33° 12'W
 DEPTH 2478 m GMT 1316

DEPTH m	T OC	SALINITY ‰		O ₂ ml/l	PO ₄ -P ug at/l	SiO ₃ -Si ug at/l
		U.S.	G.B.			
1	13.54	34.874		5.94	0.34	0.5
49	10.47	35.147		5.95	0.76	2.4
98	9.31	35.187		6.03	0.85	4.9
147*	8.37	35.042		5.63	0.97	6.3
196	7.57	34.995		5.36	1.14	8.1
294*	6.82	35.023		5.77	1.09	9.1
392	6.02	34.985		5.60	1.18	10.0
490*	5.13	34.965		5.69	1.18	9.7
587	4.84	34.966		5.65	1.15	11.8
685*	4.50	34.955		5.96	1.15	11.7
783	4.18	34.949		6.10	1.10	11.9
881*	3.94	34.935		5.99	1.12	12.2
979	3.82	34.936		6.35	1.12	12.3
1077*	3.67	34.925		6.43	1.12	12.1
1157*	3.63	34.915		6.39	1.06	10.5
1256	3.59	34.920		6.40	1.06	9.1
1355*	3.52	34.923		6.36	1.03	9.7
1454	3.49	34.926		6.40	1.09	10.5
1652	3.50	34.961		6.28	1.09	10.4
1849	3.37	34.977		6.33	1.09	11.4
2047*	3.19	34.989		6.30	1.08	11.5
2245	3.02	34.987		6.25	1.06	12.3
2443*	2.91	34.989		6.14	1.06	13.7

DISCOVERY II I.G.Y. CRUISE 3 STATION 3850
 DATE 24 VIII 1958 LAT. 55° 04'N LONG. 31° 56'W
 DEPTH 2666 m GMT 2052

DEPTH m	T OC	SALINITY ‰		O ₂ ml/l	PO ₄ -P ug at/l	SiO ₃ -Si ug at/l
		U.S.	G.B.			
1	13.59	34.963		6.05	0.34	1.1
48	9.85	35.022		6.12	0.73	2.7
96	8.59	35.010		6.06	0.96	5.0
192*	6.92	34.954		5.31	1.03	9.7
290	6.35	34.978		5.68	1.12	9.1
387*	5.35	34.923		5.45	1.25	11.5
486	4.92	34.948		5.51	1.22	10.6
584*	4.42	34.939		5.80	1.15	10.3
683	4.19	34.936		5.96	1.15	10.8
782*	4.01	34.932		6.11	1.15	14.0
880	3.84	34.943		6.12	1.09	13.3
978*	3.73	34.938		6.25	1.12	13.6
1075	3.65	34.921		6.38	1.15	13.8
1171*	3.56	34.914		6.44	1.14	13.8
1243*	3.55	34.929		6.42	1.10	13.6
1341	3.53	34.919		6.37	1.10	13.9
1439*	3.48	34.918		6.38	1.10	13.2
1635	3.43	34.937		6.35	1.10	14.4
1831*	3.40	34.951		6.25	1.12	14.8
2027	3.28	34.964		6.31	1.17	15.7
2222*	3.14	34.986		6.26	1.10	16.4
2418	3.03	34.989		6.31	1.06	16.3
2614*	2.94	34.990		6.11	1.10	21.4

DISCOVERY II I.G.Y. CRUISE 3 STATION 3852
 DATE 25 VIII 1958 LAT. 54° 10' N LONG. 28° 31' W
 DEPTH 3027 m GMT 1752

DEPTH m	T °C	SALINITY U.S.	°/∞ G.B.	O ₂ ml/l	P04-P ug at/l	SiO ₃ -Si ug at/l
1	14.39	34.827		6.13	0.26	1.6
50	10.13	34.999		6.19	0.69	3.6
99	8.38	34.945		6.12	0.86	6.2
149*	6.96	34.889		5.72	1.08	9.1
199	6.28	34.877		5.58	1.14	10.9
298	5.35	34.892		6.08	1.15	11.6
398	4.84	34.919		5.60	1.14	12.8
497*	4.85	34.999		5.58	1.12	13.2
596	4.50	34.915a		5.77	1.12	12.7
696*	4.26	34.892a		5.98	1.09	12.7
795	3.97	34.887a		6.18	1.12	12.1
895*	3.82	34.858a		6.28	1.14	12.1
994	3.70	34.850a		6.39	1.09	12.1
1193*	3.55	34.923		6.47	1.10	14.0
1398*	3.47	34.924		6.41	1.03	12.8
1597	3.47	34.938		6.37	1.01	13.7
1795*	3.38	34.949		6.22	1.10	13.9
1992	3.30	34.963		6.28	1.03	14.8
2190*	3.18	34.971		6.21	1.03	17.5
2388	3.02	34.988		6.21	1.12	19.5
2588	2.89	34.972		6.10	1.12	19.7
2788	2.86	34.985		6.12	1.06	21.5
2988*	2.79	34.982		6.04	1.14	23.6

a Suspected reading error. Salinities should probably be as listed below.

- 596 34.992
- 696* 34.966
- 795 34.964
- 895* 34.935
- 994 34.928

DISCOVERY II I.G.Y. CRUISE 3 STATION 3851
 DATE 25 VIII 1958 LAT. 54° 39' N LONG. 30° 25' W
 DEPTH 2899 m GMT 0751

DEPTH m	T °C	SALINITY U.S.	°/∞ G.B.	O ₂ ml/l	P04-P ug at/l	SiO ₃ -Si ug at/l
1	14.26	34.962		5.99	0.24	0.9
49	11.14	35.160		5.68	0.64	4.0
99	9.24	35.078		5.25	0.85	7.9
197*	6.97	34.900		5.58	0.97	10.8
296	6.36	34.959		5.32	1.08	12.7
395*	5.13	34.891		5.52	1.14	12.7
494	4.88	34.955		5.59	1.22	15.4
592*	4.80	34.992		5.67	1.12	16.0
691	4.44	34.967		5.88	1.12	15.2
790*	4.10	34.948		6.10	1.12	15.0
888	3.95	34.938		6.11	1.12	13.4
987*	3.78	34.926		6.24	1.09	13.6
1086	3.67	34.920		6.33	1.10	13.3
1184*	3.60	34.920		6.35	1.10	12.9
1287*	3.59	34.935		6.26	1.03	13.8
1485	3.50	34.919		6.38	1.03	12.4
1683*	3.47	34.931		6.30	1.15	13.0
1881	3.44	34.964		6.24	1.12	13.7
2079*	3.34	35.014		6.28	1.12	14.8
2277	3.22	34.989		6.25	1.06	14.0
2475*	3.03	34.998		6.25	1.15	15.6
2673	2.92	35.000		6.28	1.12	16.6

DISCOVERY II I.G.Y. CRUISE 3 STATION 3854

DATE 26 VIII 1958 LAT. 53° 15'N LONG. 240 58'W

DEPTH 3504 m GMT 1422

DEPTH m	T °C	SALINITY ‰		O ₂ ml/l	P04-P ug at/l	SiO ₃ -Si ug at/l
		U.S.	G.B.			
6	14.73	35.240		5.72	0.26	2.7
53	12.71	35.504		5.34	0.59	5.0
102	11.89	35.433		5.09	0.74	6.7
199*	10.80	35.338		4.71	0.88	9.7
296	8.17	34.993		4.73	1.05	11.5
393*	6.89	34.957		4.92	1.22	14.0
490	5.90	34.938		5.21	1.23	14.9
587*	5.19	34.955		5.57	1.22	14.2
685	4.61	34.920		5.28?	1.12	15.0
782*	4.31	34.930		6.04	1.17	12.7
878	4.10	34.951		6.15	1.09	13.1
976*	3.93	34.924		6.24	1.14	12.8
1073	3.81	34.912		6.36	1.14	13.0
1268*	3.67	34.916		6.40	1.12	13.2
1351*	3.65	34.913		6.36	1.05	16.7
1549	3.57	34.922		6.43	1.10	13.3
1746*	3.49	34.918		6.41	1.06	16.6
1944	3.45	34.917		6.34	1.09	17.8
2242	3.36	34.945		6.16	1.05	15.6
2540	3.21	34.955		6.31	1.14	19.6
2838*	3.01	34.964		6.05	1.14	28.5
3136	2.87	34.960		6.05	1.22	30.8
3434*	2.76	34.939		5.87	1.15	36.7

DISCOVERY II I.G.Y. CRUISE 3 STATION 3853

DATE 26 VIII 1958 LAT. 53° 45'N LONG. 260 45'W

DEPTH 3566 m GMT 0412

DEPTH m	T °C	SALINITY ‰		O ₂ ml/l	P04-P ug at/l	SiO ₃ -Si ug at/l
		U.S.	G.B.			
1	14.70	34.809		5.83	0.29	1.7
48	11.04	34.987		5.94	0.57	2.1
97	8.76	35.015		6.10	0.88	6.7
193*	6.67	34.986		5.45	1.00	12.1
290	5.87	34.953		5.60	1.06	11.4
388*	5.13	34.897		5.65	1.17	12.7
485	4.73	34.919		5.70	1.23	11.5
583*	4.46	34.943		5.79	1.09	12.3
681	4.18	34.935		5.97	1.12	10.4
778*	4.02	34.938		6.15	1.06	13.0
878	3.89	34.968		6.16	1.08	11.9
978*	3.79	34.923		6.25	1.06	11.6
1077	3.72	34.922		6.36	1.12	10.9
1277*	3.59	34.917		6.45	1.08	14.2
1434*	3.53	34.945		6.42	1.10	13.9
1633	3.48	34.910		6.47	0.97	14.6
1832*	3.45	34.928		6.31	1.01	14.7
2030	3.38	34.943		6.22	1.01	16.2
2329*	3.26	34.951		6.16	1.06	19.0
2628	3.10	34.961		6.22	1.09	20.9
2926*	2.92	34.959		6.08	1.12	20.8
3225	2.84	34.961		5.99	1.15	32.5
3525*	2.70	34.935		5.62	1.12	41.1

DISCOVERY II I.G.Y. CRUISE 3 STATION 3856

DATE 27 VIII 1958 LAT. 52° 18'N LONG. 21° 29'W

DEPTH 4115 m GMT 1044

DEPTH m	T °C	SALINITY U.S.	SALINITY °/∞ G.B.	O ₂ ml/l	P04-P ug at/l	SiO ₃ -Si ug at/l
1	15.00	35.365		5.97	0.26	2.1
50	13.15	35.421		5.83	0.47	2.7
100	11.73	35.467		5.83	0.65	4.2
199*	11.15	35.409		5.73	0.74	5.3
299	10.68	35.383		5.59	0.80	5.4
398*	9.99	35.326		5.18	0.95	7.5
498	8.96	35.209		5.07	0.95	9.4
598*	7.70	35.176		4.76	1.36	13.0
697	6.97	35.180		4.78	1.28	13.1
797*	6.29	35.203		5.08	1.22	12.7
896	5.89	35.208		5.28	1.25	12.0
996*	4.99	35.016		5.71	1.25	11.3
1195	4.18	34.951		6.15	1.25	12.2
1394*	3.82	34.926		6.35	1.22	11.6
1695*	3.61	34.922		6.28	1.08	12.1
1994	3.54	34.923		6.40	1.14	11.2
2293*	3.46	34.942		6.41	1.14	15.9
2592	3.26	34.959		6.42	1.15	18.4
2891*	3.01	34.963		6.43	1.15	26.1
3190	2.86	34.970		6.24	1.20	29.9
3490*	2.70	34.943		6.04	1.30	38.1
3789	2.60	34.911		5.83	1.48	46.7
4088*	2.56	34.906		5.83	1.35	49.8

DISCOVERY II I.G.Y. CRUISE 3 STATION 3855

DATE 27 VIII 1958 LAT. 52° 47'N LONG. 23° 16'W

DEPTH 3861 m GMT 0001

DEPTH m	T °C	SALINITY U.S.	SALINITY °/∞ G.B.	O ₂ ml/l	P04-P ug at/l	SiO ₃ -Si ug at/l
1	15.04	35.368		5.72	0.26	2.7
47	12.73	35.555		5.66	0.61	3.5
96	12.01	35.528		5.61	0.69	6.2
192*	11.38	35.444		5.64	0.72	7.0
288	11.08	35.449		5.51	0.87	6.0
385*	9.93	35.293		4.97	1.00	9.6
482	8.60	35.127		4.81	1.14	12.8
578*	7.16	35.037		4.77	1.23	14.8
676	6.13	35.020		5.06	1.23	13.6
774*	5.69	35.021		5.26	1.28	14.7
872	5.08	35.007		5.51	1.25	13.0
971*	4.82	35.010		5.71	1.28	13.9
1166	4.05	34.967		6.19	1.17	9.9?
1364*	3.77	34.926		6.35	1.17	12.7
1553*	3.66	34.913		6.32	1.08	11.3
1752	3.57	34.911		6.36	1.09	11.9
2051*	3.48	34.925		6.33	1.03	11.8
2349	3.39	34.953		6.26	1.03	13.5
2648*	3.23	34.956		6.18	1.08	17.0
2947	3.05	34.953		6.15	1.20	20.9
3245*	2.88	34.961		6.03	1.20	26.8
3544	2.69	34.939		5.72	1.35	42.2
3843*	2.56	34.918		5.36	1.15	45.1

DISCOVERY II I.G.Y. CRUISE 3 STATION 3858

DATE 28 VIII 1958 LAT. 51° 16'N LONG. 180 17'W

DEPTH 4451 m GMT 0507

DEPTH m	T °C	SALINITY ‰		O ₂ ml/l	P04-P ug at/1	SiO ₃ -Si ug at/1
		U.S.	G.B.			
1	15.66	35.475		5.66	0.45	1.9
50	12.92	35.606		5.78	0.61	4.5
100	12.24	35.578		5.53	0.65	--
200*	11.67	35.529		5.64	0.78	5.9
300	11.37	35.550		5.47	0.78	5.6
400	10.62	35.418		5.35	0.90	7.2
500	10.36	35.410		5.35	0.90	7.6
600*	9.78	35.352		4.99	0.97	8.8
700	9.05	35.323		4.52	1.06	11.1
800*	8.44	35.318		4.53	1.23	12.3
900	7.74	35.315		4.58	1.17	13.6
1000*	6.75	35.224		4.88	1.17	13.9
1200	5.09	35.057		5.56	1.18	13.9
1400*	4.56	35.022		5.84	1.12	13.2
1544*	3.93	34.956		6.16	1.12	13.0
1842	3.63	34.941		6.41	1.08	12.7
2141	3.50	34.945		6.19	1.08	11.9
2440	3.32	34.959		5.95	1.03	15.4
2739*	3.05	34.961		5.46	1.18	26.3
3038	2.86	34.956		5.54	1.22	27.4
3337	2.71	34.936		5.51	1.32	28.6
3635	2.61	34.928		5.57	1.33	37.2
3934*	2.56	34.924		5.46	1.38	38.3
4233	2.57	34.915		5.51	1.38	35.2
4432*	2.59	34.914		5.45	1.32	35.1

DISCOVERY II I.G.Y. CRUISE 3 STATION 3857

DATE 27 VIII 1958 LAT. 51° 49'N LONG. 190 46'W

DEPTH 3837 m GMT 1953

DEPTH m	T °C	SALINITY ‰		O ₂ ml/l	P04-P ug at/1	SiO ₃ -Si ug at/1
		U.S.	G.B.			
1	15.67	34.977		5.72	0.33	2.3
50	13.50	35.550		5.86	0.51	2.6
99	11.90	35.530		5.67	0.73	5.8
199*	11.52	35.546		5.51	0.86	6.2
298	11.00	35.523		5.65	0.78	8.0
398*	10.84	35.516		5.71	0.92	10.9
497	10.58	35.494		5.56	0.86	12.6
596*	10.19	35.431		5.13	0.98	12.9
696	9.20	35.331		4.80	0.99	13.3
795	8.12	35.238		4.54	1.15	12.9
895	7.82	35.972?		4.64	1.15	13.4
994*	6.83	35.235		4.92	1.22	12.2
1193	5.50	35.120		5.40	1.17	12.6
1392*	4.53	35.021		5.87	1.01	13.4
1531*	4.03	34.958		6.06	1.06	----
1728	3.75	34.937		6.20	1.06	----
2024*	3.53	34.942		6.31	1.08	----
2321	3.34	34.961		6.03	1.08	24.2
2618*	3.08	34.959		5.97	1.25	23.9
2913	2.88	34.961		5.98	1.33	32.8
3209*	2.68	34.953		5.81	1.33	42.9
3506	2.55	34.922		5.55	1.33	50.8
3802*	2.52	34.922		5.38	1.31	52.8

DISCOVERY II I.G.Y. CRUISE 3 STATION 3860

DATE 29 VIII 1958 LAT. 50° 22'N LONG. 140° 43'W

DEPTH 3872 m GMT 0003

DEPTH m	T °C	SALINITY U.S.	SALINITY °/oo G.B.	O ₂ ml/l	P04-P ug at/l	SiO ₃ -Si ug at/l
1	16.27	35.495		5.61	0.26	1.9
50	13.23	35.582		5.94	0.64	3.2
100	11.83	35.582		6.20	0.72	3.9
200*	11.34	35.559		6.16	0.70	5.6
299	10.96	35.523		5.60	0.70	4.8
399*	10.82	35.512		5.63	0.88	5.2
499	10.42	35.470		5.26	0.95	6.7
599*	9.88	35.428		4.73	1.18	8.7
698	9.19	35.390		4.45	1.18	10.8
797*	8.27	35.312		4.51	1.12	11.4
896	7.77	35.340		4.66	1.12	12.4
994*	7.53	35.374		4.74	1.17	12.7
1092	6.92	35.334		4.98	1.22	13.2
1190*	6.16	35.229		5.23	1.14	12.1
1560*	4.06	34.977		5.58	1.12	11.8
1760	3.69	34.946		6.21	1.09	11.7
2060*	3.43	34.961		6.04	1.60	15.1
2360	3.15	34.966		5.83	1.18	20.3
2660*	2.97	34.964		5.26?	1.25	27.6
2959	2.80	34.957		5.64	1.35	31.5
3258*	2.65	34.936		4.93?	1.35	35.5
3557	2.58	34.928		5.58	1.32	38.6
3856*	2.50	34.922		5.28	1.20	41.2

DISCOVERY II I.G.Y. CRUISE 3 STATION 3859

DATE 28 VIII 1958 LAT. 50° 49'N LONG. 160° 31'W

DEPTH 4581 m GMT 1443

DEPTH m	T °C	SALINITY U.S.	SALINITY °/oo G.B.	O ₂ ml/l	P04-P ug at/l	SiO ₃ -Si ug at/l
1	15.89	35.479		5.78	0.20	---
50	12.98	35.584		6.00	0.45	5.0
100	11.78	35.570		5.70	0.61	5.3
199*	11.10	35.539		5.59	0.72	4.0
299	10.92	35.541		5.64	0.70	9.8?
398*	10.57	35.479		---	0.88	5.6
498	10.13	35.448		5.04	0.94	8.2
598*	9.78	35.447		4.60	0.99	5.6
697	9.29	35.451		4.48	1.09	6.9
797*	8.79	35.484		4.45	1.15	10.0
896	8.45	35.511		---	1.17	---
996*	7.04	35.303		4.88	1.17	9.8
1195	5.90	35.210		5.27	1.25	11.0
1394*	4.57	35.043		5.85	1.25	8.9
1570*	3.96	34.966		6.15	1.32	14.1
1868	3.60	34.934		6.33	1.15	8.6
2166*	3.38	34.961		6.00	1.05	11.7
2465	3.15	34.964		5.77	1.10	17.3
2763*	2.94	34.961		5.59	1.25	20.2
3061	2.78	34.952		5.47	1.22	---
3359*	2.65	34.937		5.47	1.32	42.2
3657	2.59	34.926		5.47	1.32	44.6
3955*	2.54	34.921		5.48	1.37	47.6
4254	2.56	34.914		5.48	1.40	47.6
4552*	2.58	34.914		5.31	1.27	48.6

DISCOVERY II I.G.Y. CRUISE 3 STATION 3862
 DATE 29 VIII 1958 LAT. 49° 51' N LONG. 12° 37' W
 DEPTH --- m GMT 1442

DEPTH	T	SALINITY	O ₂	PO ₄ -P	SiO ₃ -Si
m	°C	U.S.	ml/l	ug at/l	ug at/l
1	16.01	35.447	5.57	0.26	0.9
50	12.88	35.611	5.73	0.56	3.2
99	11.92	35.648	5.63	0.76	4.9
199*	11.52	35.604	5.72	0.61	5.3
298	11.30	35.386	5.62	0.72	6.4
397*	11.10	35.560	5.78	0.88	5.4
497	10.90	35.532	5.33	0.88	6.4
596*	10.64	35.518	4.97	0.95	8.8
695	10.25	35.508	4.67	0.99	10.0
794*	9.84	35.522	4.48	1.09	11.5
894	9.47	35.540	4.48	1.17	15.0
993	8.84	35.536	4.43	1.12	13.5
1192	7.58	35.438	4.82	1.15	15.0
1390*	5.65	35.190	5.41	1.22	17.2
1492*	4.92	35.090	5.77	1.25	16.2
1691	3.99	34.975	6.15	1.30	15.2
1890*	3.60	34.959	6.31	1.30	17.5
2090	3.46	34.960	6.16	1.28	22.7
2290*	3.30	34.965	5.88	1.25	28.0

DISCOVERY II I.G.Y. CRUISE 3 STATION 3861
 DATE 29 VIII 1958 LAT. 50° 06' N LONG. 13° 35' W
 DEPTH 3164 m GMT 0824

DEPTH	T	SALINITY	O ₂	PO ₄ -P	SiO ₃ -Si
m	°C	U.S.	ml/l	ug at/l	ug at/l
1	15.75	35.348	5.77	0.26	2.2
50	12.17	35.386	5.79	0.70	2.7
100	11.66	35.590	5.65	0.61	2.9
200*	11.34	35.582	5.48	0.70	3.7
300	11.09	35.552	5.50	0.72	3.7
400*	11.00	35.555	5.40	0.72	4.6
500	10.66	35.526	5.26	0.80	4.6
599	10.30	35.496	4.93	0.95	6.2
699	9.88	35.502	4.51	0.98	7.8
799*	9.55	35.543	4.41	1.08	8.6
899	9.13	35.562	4.41	1.15	9.5
999	8.60	35.549	4.46	1.15	10.2
1099	7.91	35.481	4.69	1.20	10.9
1299*	6.51	35.324	5.09	1.27	11.0
1464*	5.02	35.118	5.61	1.20	11.0
1663	4.00	34.975	6.03	1.30	11.4
1962*	3.58	34.953	6.23	1.35	11.6
2260	3.29	34.965	6.03	1.32	17.3
2559*	3.04	34.965	5.83	1.30	25.3
2858	2.88	34.954	5.77	1.30	32.9
3157*	2.60	34.944	5.55	1.28	42.9

DISCOVERY II I.G.Y. CRUISE 3 STATION 3864
 DATE 29 VIII 1958 LAT. 49° 23'N LONG. 11° 22'W
 DEPTH 442 m GMT 2334

DISCOVERY II I.G.Y. CRUISE 3 STATION 3863
 DATE 29 VIII 1958 LAT. 49° 34'N LONG. 11° 52'W
 DEPTH 1007 m GMT 2034

DEPTH m	T °C	SALINITY U.S.	°/oo G.B.	O ₂ ml/l	P04-P ug at/1	Si03-Si ug at/1
1	15.95	35.438		5.79	0.14	1.7
15	15.92	35.438		5.73	0.13	3.4
40	14.48	35.509		5.73	0.33	1.2
89*	12.04	35.606		5.72	0.56	3.7
139	11.62	35.591		5.52	0.59	5.8
189*	11.40	35.578		5.54	0.64	4.2
288	11.04	35.550		5.51	0.65	5.6
427*	10.85	35.539		5.33	0.76	6.5

DEPTH m	T °C	SALINITY U.S.	°/oo G.B.	O ₂ ml/l	P04-P ug at/1	Si03-Si ug at/1
1	15.76	35.412		5.73	0.26	3.0
45	13.01	35.530		5.79	0.49	2.4
90	11.66	35.585		5.63	0.51	5.0
181*	11.29	35.582		5.59	0.60	6.1
272	11.02	35.570		5.67	0.61	7.4
364*	10.91	35.539		5.50	0.74	5.9
456	10.70	35.520		5.28	0.82	7.0
548*	10.30	35.480		4.83	0.82	10.2
643	10.00	35.501		4.49	0.92	9.8
737*	9.30	35.467		4.37	1.06	10.0
833	9.41	35.606		4.35	0.99	13.9?
929*	8.92	35.586		4.38	1.05	10.3

DISCOVERY II I.G.Y. CRUISE 3 STATION 3866

DATE 4 IX 1958 LAT. 46° 29' N LONG. 04° 28' W

DEPTH 152 m GMT 2009

DEPTH m	T °C	SALINITY U.S.	SALINITY °/oo G.B.	O ₂ ml/l	P04-P ug at/l	Si03-Si ug at/l
1	18.16		35.731	5.45	0.24	2.6
25	16.61		35.399	5.74	0.24	2.6
50	14.07		35.614	5.52	0.45	3.0
75*	12.10		35.583	5.38	0.60	4.2
100	11.50		35.622	5.42	0.68	4.7
140*	11.48		35.522	5.32	0.68	4.4

DISCOVERY II I.G.Y. CRUISE 3 STATION 3865

DATE 30 VIII 1958 LAT. 49° 19' N LONG. 11° 08' W

DEPTH 188 m GMT 0100

DEPTH m	T °C	SALINITY U.S.	SALINITY °/oo G.B.	O ₂ ml/l	P04-P ug at/l	Si03-Si ug at/l
1	15.87	35.436		5.73	0.18	1.5
25	15.86	35.450		5.78	0.21	2.7
50	12.42	35.576		5.78	0.56	4.0
75*	11.98	35.597		5.71	0.53	4.0
124	11.41	35.584		5.63	0.73	4.9
174*	11.12	35.555		5.41	0.73	5.8

DISCOVERY II I.G.Y. CRUISE 3 STATION 3868
 DATE 5 IX 1958 LAT. 46° 32'N LONG. 5° 10'W
 DEPTH 1809 m GMT 0024

DEPTH m	T °C	SALINITY U.S.	°/oo G.B.	O ₂ ml/l	PO ₄ -P ug at/l	SiO ₃ -Si ug at/l
1	18.18		35.467	5.44	0.24	1.3
50	14.09		35.511	5.74	0.42	2.5
100	11.69		35.634	5.57	0.59	4.4
200*	11.47		35.626	5.65	0.67	4.4
300	11.32		35.614	5.59	0.67	5.0
400*	11.20		35.603	5.41	0.71	5.7
500	10.97		35.598	5.11	0.80	6.5
599*	10.64		35.606	4.83	0.88	8.4
699	10.36		35.637	4.53	0.99	9.8
799*	10.16		35.712	4.36	1.06	11.3
899	9.97		35.763	4.31	1.00	14.4
999*	9.74		35.782	4.32	1.05	15.2
1099	9.30		35.764	4.35	1.06	15.6
1199*	8.82		35.711	4.50	1.03	17.4
1178*	8.88	35.713		4.45	1.06	16.3
1277	8.23	35.631		4.69	1.08	17.4
1377	7.56	35.527		4.81	1.09	21.5
1577	5.86	35.308		5.22	1.12	23.3
1776*	5.10	35.206		5.44	1.22	22.9

DISCOVERY II I.G.Y. CRUISE 3 STATION 3867
 DATE 4 IX 1958 LAT. 46° 29'N LONG. 4° 43'W
 DEPTH 362 m GMT 2144

DEPTH m	T °C	SALINITY U.S.	°/oo G.B.	O ₂ ml/l	PO ₄ -P ug at/l	SiO ₃ -Si ug at/l
1	17.97		35.493	5.45	0.30	2.1
25	17.16		35.476	5.61	0.26	1.9
49	14.74		35.528	5.68	0.40	2.1
99*	11.91		35.626	5.51	0.67	4.7
148	11.64		35.615	5.56	0.67	4.4
198*	11.50		35.618	5.45	0.67	4.0
297	11.41		35.618	5.46	0.67	5.6
346*	11.38		35.616	5.46	0.70	5.3

DISCOVERY II I.G.Y. CRUISE 3 STATION 3869

DATE 5 IX 1958 LAT. 46° 30'N LONG. 50° 54'W

DEPTH 4221 m GMT 0520

DEPTH m	T °C	SALINITY U.S.	SALINITY °/oo G.B.	O ₂ ml/l	P04-P ug at/l	SiO ₃ -Si ug at/l
1	17.79		35.562	5.28	0.24	2.9
49	15.82		35.585	5.75	0.26	3.6
98	11.77		35.634	5.69	0.60	5.1
197*	11.44		35.620	5.67	0.57	8.0
295	11.25		35.601	5.53	0.67	5.7
393*	11.07		35.582	5.34	0.74	7.2
492	10.86		35.580	5.10	0.80	9.2
590*	10.52		35.583	4.70	0.98	10.1
688	10.30		35.639	4.48	1.00	11.6
786*	10.09		35.689	4.33	1.00	13.8
885	9.88		35.744	4.26	1.12	14.4
983	9.69		35.788	4.31	1.12	15.6?
1180	8.80		35.717	4.49	1.12	15.3?
1376*	7.14		35.466	4.92	1.18	18.8
1475*	6.01	35.313		5.23	1.25	19.2
1673	4.83	35.136		5.18?	1.15	18.1
1871*	4.25	35.052		5.68	1.08	20.1
2068	4.02	35.057		5.51	1.18	26.8
2364*	3.51	35.019		5.58	1.15	32.1
2660	3.12	34.976		5.13?	1.20	40.2
2955*	2.89	34.957		5.63	1.32	44.7
3250	2.70	34.943		5.52	1.32	47.5
3545*	2.56	34.928		5.54	1.36	51.6
3839	2.53	34.919		5.45	1.36	54.1
4132*	2.51	34.911		5.12	1.18	55.5

DISCOVERY II I.G.Y. CRUISE 3 STATION 3870

DATE 5 IX 1958 LAT. 46° 30'N LONG. 70° 07'W

DEPTH 4671 m GMT 1326

DEPTH m	T °C	SALINITY U.S.	SALINITY °/oo G.B.	O ₂ ml/l	P04-P ug at/l	SiO ₃ -Si ug at/l
1	17.46		35.570	5.47	0.15	2.4
48	13.43		35.647	5.75	0.37	2.4
96	11.86		35.652	5.73	0.59	3.9
193*	11.55		35.623	5.67	0.59	5.0
290	11.32		35.599	5.57	0.61	5.2
387*	11.12		35.573	5.43	0.74	5.0
485	10.76		35.533	5.02	0.79	7.7
583*	10.44		35.554	4.81	0.88	9.7
681	10.28		35.601	4.59	0.95	9.6
779*	10.16		35.667	4.44	0.98	11.4
878	9.93		35.701	4.40	0.98	12.1
976*	9.65		35.748	4.37	1.06	12.1
1075	9.19		35.717	4.44	1.09	13.4
1174*	8.65		35.659	4.63	1.09	14.7
1272*	7.61	35.506		4.81	1.12	14.8
1371	6.75	35.381		5.05	1.13	15.5
1469*	5.94	35.281		5.26	1.12	16.5
1668	4.82	35.116		5.65	1.06	15.5
1964*	4.00	35.042		5.83	1.09	21.5
2360	3.40	34.996		5.68	1.18	28.9
2756*	2.93	34.958		5.56	1.28	39.7
3152	2.70	34.945		5.57	1.25	42.2
3648*	2.56	34.920		5.52	1.38	46.2
4144	2.53	34.908		5.91?	1.38	46.2
4639*	2.56	34.906		5.29	1.22	51.4

DISCOVERY II I.G.Y. CRUISE 3 STATION 3872
 DATE 6 IX 1958 LAT. 46° 32'N LONG. 10° 27'W
 DEPTH 4757 m GMT 1338

DEPTH m	T °C	SALINITY ‰ U.S. G.B.	O ₂ ml/l	PO ₄ -P ug at/l	SiO ₃ -Si ug at/l
1	17.04	35.551	5.52	0.31	1.1
50	16.91	35.580	5.69	0.47	0.7
100	12.00	35.674	5.71	0.61	3.7
199*	11.69	35.649	5.67	0.67	3.7
299	11.41	35.620	5.64	0.80	3.8
398*	11.22	35.597	5.47	0.78	4.8
498	10.93	35.584	5.15	0.85	5.6
597*	10.73	35.601	4.74	0.92	9.7
697	10.32	35.624	4.47	0.93	8.8
796*	10.16	35.678	4.37	1.06	9.0
896	9.99	35.758	4.28	1.15	10.1
995*	9.63	35.784	4.31	1.06	11.5
1095	9.20	35.749	4.51	1.18	13.9
1194*	8.66	35.696	4.60	1.12	13.9
1267*	7.73	35.541	4.79	1.18	14.5
1365	6.91	35.425	4.99	1.22	14.4
1465*	6.19	35.308	5.05	1.22	15.6
1665	5.05	35.144	5.44	1.25	16.6
1964*	3.89	34.995	5.95	1.28	17.4
2363	3.39	34.984	5.81	1.33	24.9
2762*	3.01	34.963	5.57	1.33	34.7
3260	2.74	34.939	5.56	1.36	40.9
3757*	2.59	34.927	5.52	1.36	46.4
4257	2.56	34.916	5.75	1.36	48.4
4756*	2.57	34.907	5.23	1.36	49.3

DISCOVERY II I.G.Y. CRUISE 3 STATION 3871
 DATE 6 IX 1958 LAT. 46° 30'N LONG. 8° 47'W
 DEPTH 4786 m GMT 0057

DEPTH m	T °C	SALINITY ‰ U.S. G.B.	O ₂ ml/l	PO ₄ -P ug at/l	SiO ₃ -Si ug at/l
1	17.55	35.529	5.45	0.25	1.5
50	13.39	35.629	5.72	0.46	1.7
99	11.90	35.658	5.33	0.60	4.7
149*	11.67	35.645	5.71	0.57	5.0
198	11.63	35.649	5.68	0.64	2.7
296*	11.49	35.635	5.67	0.65	5.1
394	11.27	35.597	5.52	0.67	4.1
491*	11.09	35.588	5.21	0.72	4.4
590	10.77	35.576	4.91	0.86	7.6
689*	10.53	35.592	4.74	0.92	7.3
789	10.31	35.644	4.45	1.09	8.3
889	10.17	35.753	4.32	1.12	10.5
989	9.94	35.799	4.34	1.09	10.7
1189*	9.11	35.760	4.45	1.18	13.4
1279*	8.34	35.637	4.68	1.18	13.9
1379	7.06	35.437	4.99	1.18	14.0
1479*	6.20	35.304	5.17	1.15	14.7
1678	4.59	35.061	5.73	1.12	14.2
2077*	3.93	35.019	5.80	1.22	20.9
2475	3.36	34.986	5.69	1.22	26.2
2871*	2.94	34.953	5.60	1.33	33.3
3267	2.75	34.939	5.63	1.38	38.0
3762*	2.61	34.927	5.49	1.38	40.7
4257	2.57	34.913	5.57	1.38	44.1
4752*	2.57	34.904	5.32	1.46	47.1

DISCOVERY II I.G.Y. CRUISE 3 STATION 3874

DATE 7 IX 1958 LAT. 46° 18' N LONG. 130° 40' W

DEPTH 4762 m GMT 1105

DEPTH m	T °C	SALINITY U.S.	°/oo G.B.	O ₂ ml/l	P0 ₄ -P ug at/l	SiO ₃ -Si ug at/l
1	17.04		35.563	5.45	0.20	1.7
50	13.19		35.705	5.67	0.45	2.4
99	12.58		35.740	5.59	0.60	3.2
199*	12.04		35.675	5.57	0.68	4.1
298	11.62		35.623	5.51	0.71	4.4
398*	11.29		35.571	5.41	0.74	4.9
497	11.07		35.566	5.20	0.74	5.6
596*	10.55		35.504	4.86	0.80	7.1
696	10.38		35.602?	4.37	1.03	8.8
795*	9.98		35.613	4.31	1.03	11.3
895	9.88		35.740	4.25	1.09	10.7
994	9.55		35.782?	4.29	1.03	10.9
1093	9.19		35.776	4.43	1.06	11.3
1193*	8.60		35.725	4.59	1.06	11.8
1261*	7.98	35.602		4.73	1.09	12.4
1360	6.34	35.330		5.15	1.09	12.6
1460*	5.51	35.201		5.80	1.00	13.3
1658	4.47	35.041		5.92	1.01	12.3
1936*	3.87	34.995		5.96	1.01	14.0
2353	3.39	34.984		5.52	1.09	20.4
2751*	2.98	34.961		5.64	1.22	27.6
3247	2.73	34.939		5.59	1.28	33.7
3744*	2.56	34.924		5.51	1.28	36.3
4240	2.54	34.910		5.53	1.28	37.7
4737*	2.58	34.910		5.27	1.28	38.1

DISCOVERY II I.G.Y. CRUISE 3 STATION 3873

DATE 7 IX 1958 LAT. 46° 31' N LONG. 120° 08' W

DEPTH 4358 m GMT 0127

DEPTH m	T °C	SALINITY U.S.	°/oo G.B.	O ₂ ml/l	P0 ₄ -P ug at/l	SiO ₃ -Si ug at/l
1	16.51		35.457	5.57	0.26	1.9
49	13.30		35.692	5.57	0.53	2.6
99	12.36		35.687	5.53	0.67	4.6
197*	11.94		35.648	5.58	0.80	5.0
296	11.50		35.599	5.53	0.78	5.0
394	11.11		35.551	5.45	0.80	5.5
493	10.83		35.519	5.17	0.92	6.5
592*	10.34		35.478	4.75	1.03	8.0
690	9.98		35.520	4.45	1.09	9.1
789*	9.55		35.585	4.08	1.17	10.5
887	9.44		35.628	4.36	1.17	35.5?
986*	8.40		35.527	4.57	1.23	13.2
1085	7.38		35.398	4.81	1.23	14.3
1183	6.36		35.254	5.15	1.27	14.9
1244*	5.86	35.192		5.34	1.27	14.5
1343	5.81	35.228		5.36	1.23	14.4
1443*	5.41	35.189		5.45	1.23	15.5
1542	4.79	35.103		5.68	1.23	13.2
1841*	3.65	34.944		6.14	1.18	15.8
2139	3.49	34.964		5.91	1.23	19.2
2537*	3.18	34.961		5.79	1.25	20.8
2935	2.87	34.948		5.66	1.36	38.9
3333*	2.68	34.944		---	1.36	44.3
3831	2.59	34.918		4.99	1.36	49.4
4328*	2.56	34.910		5.25	1.32	53.0

DISCOVERY II I.G.Y. CRUISE 3 STATION 3876

DATE 8 IX 1958 LAT. 46° 18'N LONG. 160° 49'W

DEPTH 4296 m GMT 0508

DEPTH m	T °C	SALINITY U.S.	SALINITY °/∞ G.B.	O ₂ ml/l	P04-P ug at/l	Si03-Si ug at/l
1	17.30		35.609	5.34	0.26	1.6
48	15.65		35.665	5.68	0.18	1.5
96	12.41		35.662	5.45	0.61	4.4
192*	11.80		35.606	5.41	0.67	4.8
287	11.55		35.559	5.45	0.67	4.6
384*	11.19		35.535	5.25	0.80	5.8
480	10.74		35.488	5.12	0.83	5.1
577*	10.15		35.420	4.79	0.92	8.0
673	9.28		35.347	4.45	1.03	14.9
771*	8.63		35.343	4.41	1.12	16.1
871	8.36		35.425	4.44	1.12	16.2
970*	7.55		35.383	4.65	1.09	17.2
1070	6.74		35.306	5.01	1.18	16.8
1169*	7.13		35.443	4.97	1.18	17.4
1303*	5.93	35.261		5.34	1.23	18.6
1402	5.37	35.185		5.56	1.15	17.1
1502*	4.86	35.111		5.73	1.12	17.4
1702	4.03	34.988		6.03	1.23	17.3
1902*	3.73	34.957		6.13	1.20	17.4
2201	3.44	34.954		6.10	1.15	20.3
2499*	3.21	34.962		5.97	1.15	27.5
2897	2.94	34.963		5.84	1.25	37.5
3292*	2.71	34.939		5.64	1.38	47.7
3785	2.59	34.919		5.51	1.38	58.1
4277*	2.59	34.919		5.33	1.35	55.1

DISCOVERY II I.G.Y. CRUISE 3 STATION 3875

DATE 7 IX 1958 LAT. 46° 16'N LONG. 150° 15'W

DEPTH 4590 m GMT 2040

DEPTH m	T °C	SALINITY U.S.	SALINITY °/∞ G.B.	O ₂ ml/l	P04-P ug at/l	Si03-Si ug at/l
1	17.48		35.637	5.30	0.26	1.0
50	15.61		35.702	5.60	0.18	1.4
99	13.07		35.740	5.36	0.53	2.6
199*	12.37		35.690	5.34	0.61	3.9
298	11.88		35.640	5.41	0.65	4.0
398*	11.62		35.609	5.19	0.74	4.2
497	11.11		35.560	5.10	0.80	4.4
596*	10.45		35.486	4.75	0.95	6.6
696	10.42		35.591	4.42	0.95	6.7
795*	10.18		35.688	4.19	1.09	12.2
895	9.88		35.743	4.19	1.12	13.1
994*	9.49		35.765	4.22	1.06	14.2
1093	8.90		35.720	4.48	1.12	14.8
1193*	7.34		35.442	4.84	1.23	17.1
1282*	6.12	35.263		5.21	1.23	16.2
1379	5.26	35.138		5.51	1.17	16.4
1476*	4.57	35.023		5.74	1.09	15.7
1673	4.06	34.966		5.84	1.09	14.7
1968*	3.66	34.943		5.83	1.09	14.3
2362	3.40	34.959		5.90	1.09	20.9
2759*	3.10	34.963		5.65	1.22	29.2
3157	2.82	34.945		5.57	1.25	35.3
3556*	2.65	34.930		5.26	1.28	39.7
4055	2.63	34.922		4.48?	1.28	47.0
4554*	2.61	35.308?		5.22	1.28	49.0

DISCOVERY II I.G.Y. CRUISE 3

STATION 3877

DATE 8 IX 1958

LAT. 46° 20' N

LONG. 180° 24' W

DEPTH 3738 m

GMT 1558

DEPTH m	T °C	SALINITY U.S.	SALINITY G.B.	O ₂ ml/l	PO ₄ -P ug at/l	SiO ₃ -Si ug at/l
1	17.44		35.600	5.44	0.20	1.6
49	16.42		35.647	5.65	0.37	4.0
98	12.50		35.664	5.53	0.64	5.4
196*	11.89		35.627	5.40	0.74	6.8
295	11.52		35.550	5.45	0.74	7.4
393	11.15		35.530	5.28	0.83	7.8
491	10.71		35.482	5.10	0.88	10.2
589*	9.94		35.387	4.70	1.00	8.2
687	9.37		35.374	4.43	1.12	9.7
786*	8.78		35.408	4.36	1.15	9.7
884	7.93		35.367	4.59	1.12	10.9
982*	7.39		35.351	4.78	1.09	12.1
1080	7.20		35.404	4.84	1.12	12.3
1178*	5.87		35.211	5.29	1.14	13.9
1227*	5.45	35.145		5.46	1.06	14.4
1327	4.83	35.078		5.71	1.09	14.0
1427*	4.32	35.080		5.84	1.06	11.7
1527	4.07	34.965		6.02	1.09	11.7
1827*	3.63	34.932		6.21	1.09	11.8
2127	3.50	34.943		6.00	1.09	12.9
2427*	3.27	34.956		6.08	1.09	16.7
2727	3.05	34.963		5.97	1.15	19.2
3027*	2.84	34.953		5.80	1.28	27.5
3327	2.70	34.936		5.66	1.28	34.5
3727*	2.61	34.918		5.16	1.28	39.0

DISCOVERY II I.G.Y. CRUISE 3

STATION 3878

DATE 9 IX 1958

LAT. 46° 19' N

LONG. 200° 11' W

DEPTH 4789* m

GMT 0207

DEPTH m	T °C	SALINITY U.S.	SALINITY G.B.	O ₂ ml/l	PO ₄ -P ug at/l	SiO ₃ -Si ug at/l
1	16.48		35.624	5.63	0.20	4.2
50	13.87		35.754	5.57	0.56	6.5
100	13.28		35.760	5.34	0.56	5.1
199*	12.69		35.673	5.36	0.61	6.4
299	12.18		35.623	5.40	0.72	6.8
398*	11.71		35.576	5.28	0.76	6.8
498	10.68		35.410	4.82	0.98	1.0
598*	9.64		35.287	4.89	1.09	1.0
697	9.01		35.283	4.52	1.09	10.5
797*	8.34		35.301	4.71	1.12	13.9
896	7.44		35.260	4.79	1.18	12.6
996*	6.29		35.149	5.12	1.18	13.3
1096	5.65		35.103	5.37	1.25	15.0
1195*	5.05		35.054	5.69	1.15	13.4
1311*	4.44	34.995		6.03	1.15	13.3
1410	4.15	34.966		6.04	1.09	12.5
1510*	4.04	34.959		6.11	1.06	9.1
1709	3.75	34.928		6.20	1.03	10.2
2008*	3.55	34.923		6.22	1.06	15.1
2406	3.35	34.942		6.14	1.09	12.7
2805*	3.10	34.961		6.13	1.18	18.2
3304	2.83	34.939		5.80	1.32	35.2
3803*	2.62	34.923		5.57	1.32	42.7
4303	2.62	34.915		5.52	1.32	7.1?
4789*	2.66	34.915		Mud	1.30	4.8?

DISCOVERY II I.G.Y. CRUISE 3 STATION 3880

DATE 9 IX 1958 LAT. 46° 15'N LONG. 230 32'W

DEPTH 3648 m GMT 2223

DEPTH m	T °C	SALINITY U.S.	°/oo G.B.	O ₂ ml/l	PO ₄ -P ug at/l	SiO ₃ -Si ug at/l
1	16.81		35.719	5.67	0.28	3.3
49	16.64		35.859	5.51	0.31	1.4
98	14.64		35.920	5.21	0.59	1.6
197*	13.27		35.758	5.29	0.64	2.7
296	12.34		35.614	5.23	0.74	2.1
394*	11.76		35.539	5.22	0.86	1.6
494	10.72		35.404	4.66	0.98	9.1
593*	9.10		35.197	4.63	1.12	11.9
692	7.95		35.102	4.52	1.25	13.7
792*	7.16		35.167	4.71	1.25	14.2
892	7.12		35.286	4.86	1.23	15.6
992*	6.84		35.297	5.01	1.25	14.0
1091	5.33		35.103	5.54	1.32	14.1
1190*	4.95		35.068	5.68	1.25	13.5
1229*	4.67	35.036		5.74	1.25	13.1
1330	4.25	34.987	34.984	5.97	1.15	12.6
1531*	3.82	34.948	34.947	6.20	1.15	13.3
1833	3.53	34.926	34.923	6.37	1.22	12.7
2133*	3.45	34.935	34.936	6.30	1.22	12.8
2433	3.27	34.946	34.944	6.25	1.22	17.1
2830*	3.08	34.954	34.947	6.13	1.32	22.5
3227	2.90	34.951	34.948	5.96	1.35	26.6
3624*	2.72	34.924	34.934	5.56	1.35	37.4

DISCOVERY II I.G.Y. CRUISE 3 STATION 3879

DATE 9 IX 1958 LAT. 46° 15'N LONG. 210 56'W

DEPTH 4001 m GMT 1226

DEPTH m	T °C	SALINITY U.S.	°/oo G.B.	O ₂ ml/l	PO ₄ -P ug at/l	SiO ₃ -Si ug at/l
1	17.15		35.752	5.44	0.28	0.0
50	15.57		35.784	5.67	0.26	0.3
99	13.80		35.836	5.45	0.50	1.9
198*	13.00		35.707	5.45	0.67	---
297*	12.50		35.690	5.14	0.73	---
396*	11.93		35.639	5.34	0.80	6.6
495	11.41		35.565	5.10	0.78	5.3
594	10.92		35.530	4.97	0.88	4.7
693	10.25		35.486	4.41	1.06	8.6
792*	9.63		35.501	4.25	1.15	9.5
891	9.05		35.508	4.31	1.22	8.0
990	8.24		35.444	4.39	1.22	10.3
1089	6.68		35.239	5.01	1.28	10.2
1188*	6.18		35.222	5.20	1.25	10.2
1296*	5.65	35.181	35.192	5.38	1.22	10.5
1396	5.28	35.139	35.143	5.56	1.15	10.1
1496*	4.80	35.085	35.086	5.69	1.15	9.7
1795	3.84	34.957	34.959	6.15	1.15	10.4
2193*	3.50	34.948	34.946	6.14	1.18	10.9
2592	3.18	34.962	34.957	6.10	1.32	12.1
2991*	2.88	34.947	34.953	5.97	1.38	18.3
3490*	2.72	34.932	34.937	5.67	1.38	5.6
3988*	2.57	34.916	34.911	5.43	1.38	1.0

DISCOVERY II I.G.Y. CRUISE 3 STATION 3882

DATE 10 IX 1958 LAT. 46° 14'N LONG. 260 21'W

DEPTH 3105 m GMT 1545

DEPTH m	T °C	SALINITY U.S.	SALINITY °/oo G.B.	O ₂ ml/l	P04-P ug at/l	SiO ₃ -Si ug at/l
1	16.95		35.779	5.63	0.28	1.0
50	16.50		35.778	5.61	0.26	1.0
99	13.29		35.761	5.64	0.59	3.2
198*	12.99		35.744	5.76	0.59	5.0
297	12.74		35.720	5.37	0.73	5.6
396*	12.21		35.651	5.37	0.73	4.4
495	11.73		35.593	5.33	0.96	7.0
594*	11.30		35.538	5.32	0.82	7.4
693	10.67		35.456	4.96	0.96	7.3
792*	9.71		35.362	4.44	1.15	12.0
891	8.67		35.305	4.41	1.32	13.6
990*	7.67		35.236	4.53	1.22	14.8
1089	6.44		35.170	5.01	1.35	15.0
1189*	6.00		35.152	5.18	1.22	14.8
1293*	5.58	35.142	35.142	5.35	1.12	14.7
1393	4.98	35.081	35.081	5.64	1.15	14.6
1493*	4.53	35.019	35.024	5.87	1.18	14.9
1693	3.93	34.957	34.958	6.18	1.12	15.0
1893*	3.72	34.941	34.945	6.25	1.15	15.5
2192	3.50	34.938	34.939	6.29	1.15	17.3
2490*	3.30	34.942	34.947	6.22	1.15	18.4
2788*	3.16	34.953	34.952	6.21	1.33	22.9
3088*	3.12	34.951	34.953	6.01	1.25	25.8

DISCOVERY II I.G.Y. CRUISE 3 STATION 3881

DATE 10 IX 1958 LAT. 46° 15'N LONG. 250 08'W

DEPTH 2814 m GMT 0834

DEPTH m	T °C	SALINITY U.S.	SALINITY °/oo G.B.	O ₂ ml/l	P04-P ug at/l	SiO ₃ -Si ug at/l
1	16.69		35.750	5.51	0.31	0.9
50	15.89		35.842	5.32	0.45	0.0
100	14.76		35.960	5.10	0.61	3.3
199*	13.40		35.789	5.30	0.67	4.1
299	12.60		35.649	5.10	0.80	3.0
399*	11.94		35.537	5.45	0.86	5.0
499	11.52		35.525	4.72	0.98	6.8
598*	9.95		35.274	4.29	1.25	11.7
698	9.18		35.270	4.47	1.35	13.5
798*	8.26		35.275	4.49	1.23	15.4
897	7.00		35.183	4.65	1.28	14.7
997*	6.71		35.255	4.97	1.20	17.8
1097	6.13		35.218	5.22	1.25	16.3
1196	5.43		35.131	5.50	1.22	14.4
1216*	5.40	35.121	35.127	5.52	1.22	15.6
1315	4.82	35.061	35.062	5.72	1.18	15.6
1515*	4.13	34.977	34.975	6.13	1.22	13.6
1814	3.72	34.946	34.947	6.27	1.22	16.0
2113*	3.47	34.938	34.937	6.29	1.22	17.6
2412*	3.33	34.946	34.946	6.11	1.22	20.3
2810*	3.11	34.949	34.959	6.01	1.22	25.7

DISCOVERY II I.G.Y. CRUISE 3 STATION 3884

DATE 10 IX 1958 LAT. 46° 14'N LONG. 27° 19'W

DEPTH 2195 m GMT 2322

DEPTH m	T °C	SALINITY U.S.	°/oo G.B.	O ₂ ml/l	P04-P ug at/l	Si03-Si ug at/l
1	16.90		35.814	5.56	0.26	1.7
49	16.69		35.764	5.52	0.31	1.6
99	14.19		35.800	5.43	0.61	3.2
198*	13.06		35.730	5.49	0.61	4.9
296	12.60		35.689	5.32	0.61	5.8
395*	12.13		35.645	5.32	0.74	6.1
494	11.63		35.580	5.21	0.80	6.2
593*	10.98		35.493	5.03	0.78	7.4
692	9.97		35.365	4.71	0.82	9.8
790*	8.70		35.251	4.41	1.00	12.1
889	7.78		35.253	4.49	1.25	13.0
988*	7.42		35.328	4.70	1.25	13.6
1087	6.45		35.203	4.98	1.12	13.4
1186*	5.58		35.116	5.41	1.12	13.3
1290*	4.88	35.066	35.057	5.72	1.12	12.8
1389	4.45	35.028	35.015	5.92	1.15	---
1587*	4.01	34.975	34.967	6.15	1.20	12.0
1885*	3.70	---	---	5.97	1.15	13.5
2182*	3.58	35.202?	34.946	6.20	1.12	15.4

DISCOVERY II I.G.Y. CRUISE 3 STATION 3883

DATE 10 IX 1958 LAT. 46° 14'N LONG. 27° 04'W

DEPTH 2516 m GMT 2040

DEPTH m	T °C	SALINITY U.S.	°/oo G.B.	O ₂ ml/l	P04-P ug at/l	Si03-Si ug at/l
1	16.93		35.792	5.67	0.24	1.6
50	16.83		35.796	5.57	0.18	1.5
99	13.90		35.789	5.43	0.59	3.5
199*	12.95		35.714	5.45	0.68	4.7
298	12.59		35.694	5.30	0.64	5.1
398*	12.15		35.649	5.19	0.68	5.7
497	11.60		35.573	5.17	0.78	6.2
596*	10.94		35.491	4.96	0.95	7.3
696	10.08		35.384	4.59	0.95	9.5
795*	9.07		35.307	4.36	1.25	11.9
895	8.17		35.273	4.42	1.17	13.6
994*	7.61		35.292	4.58	1.32	15.1
1093	6.88		35.276	4.88	1.09	15.6
1193	5.71		35.130	5.28	1.17	13.9
1270*	5.12	35.076	35.071	5.59	1.22	13.9
1466	4.40	35.005	35.004	5.92	1.17	13.8
1661*	3.97	34.985	34.964	6.18	1.17	15.0
1856	3.79	34.952	34.953	6.23	1.22	15.1
2052*	3.64	34.950	34.946	6.26	1.17	16.0
2247*	3.50	34.950	34.942	6.31	1.15	17.0
2443*	3.43	34.957	34.944	6.14	1.15	18.7

DISCOVERY II I.G.Y. CRUISE 3 STATION 3886

DATE 12 IX 1958 LAT. 42° 47'N LONG. 28° 06'W

DEPTH 2930 m GMT 0435

DEPTH m	T °C	SALINITY U.S.	SALINITY G.B.	O ₂ ml/l	P04-P ug at/l	Si03-Si ug at/l
1	18.32		35.849	5.32	0.18	1.6
49	18.34		35.847	5.40	0.56	1.2
98	14.12		35.731	5.33	0.67	2.3
196*	13.04		35.862	5.40	0.78	3.7
293	12.58		35.703	5.19	0.80	4.6
391*	12.04		35.640	5.10	0.87	6.5
489	11.23		35.519	4.95	1.09	9.5
587*	10.08		35.374	4.58	1.06	10.3
685	9.05		35.284	4.42	1.15	10.7
782*	7.76		35.216	4.48	1.14	16.2
880	7.09		35.229	4.75	1.14	15.5
978	6.44		35.223	5.10	1.14	14.3
1076	5.74		35.153	5.38	1.12	15.5
1174*	5.31		35.118	5.59	1.08	14.2
1214*	4.95	35.075	35.074	5.67	1.06	14.6
1313	4.56	35.036	35.030	5.81	1.06	15.5
1413*	4.27	35.009	35.001	5.98	1.06	14.7
1613	3.94	34.976	34.979	6.08	1.06	14.7
1812*	3.69	34.978?	34.962	6.14	1.06	16.5
2011	3.52	34.947	34.948	6.37	1.06	15.7
2310*	3.37	34.953	34.946	6.19	1.06	17.5
2609	3.24	34.953	34.948	6.26	1.03	21.7
2908*	3.12	34.954	34.947	5.93	1.09	25.4

DISCOVERY II I.G.Y. CRUISE 3 STATION 3885

DATE 11 IX 1958 LAT. 42° 46'N LONG. 28° 47'W

DEPTH 2357 m GMT 2359

DEPTH m	T °C	SALINITY U.S.	SALINITY G.B.	O ₂ ml/l	P04-P ug at/l	Si03-Si ug at/l
1	18.08		35.785	5.40	0.11	1.2
50	18.06		35.787	5.51	0.16	1.2
99	14.76		35.774	5.65	0.37	2.8
198*	12.90		35.734	5.72	0.53	5.9
297	12.21		35.646	5.05	0.65	6.6
396*	11.22		35.490	4.84	0.91	7.8
495	10.66		35.425	4.64	0.91	6.8
594*	9.81		35.340	4.42	0.98	8.5
693	8.67		35.247	4.33	1.06	12.0
792*	7.82		35.249	4.45	1.09	11.3
891	6.71		35.181	4.81	1.14	12.0
990*	6.01		35.160	5.14	1.14	11.7
1089	5.42		35.119	5.56	1.15	10.6
1188*	4.94		35.077	5.88	1.18	12.9
1346*	4.51	35.038	35.040	5.83	1.18	12.1
1546	4.19	35.014	35.008	5.92	1.18	11.7
1746*	3.97	34.991	34.987	6.11	1.15	12.7
2046	3.65	34.962	34.960	6.25	1.18	13.5
2346*	3.43	34.956	34.952	6.35	1.15	16.2

DISCOVERY II I.G.Y. CRUISE 3 STATION 3888
 DATE 12 IX 1958 LAT. 42° 55' N LONG. 25° 20' W
 DEPTH 3462 m GMT 2133

DEPTH m	T °C	SALINITY U.S.	°/oo G.B.	O ₂ ml/l	PO ₄ -P ug at/l	Si ug at/l
1	19.18		35.978	5.23	0.10	1.4
50	19.05		35.983	5.35	0.21	1.6
99	14.82		35.983	5.45	0.31	2.7
198*	13.37		35.830	5.22	0.56	4.0
298	12.44		35.713	5.17	0.64	5.2
397*	11.93		35.634	5.14	0.83	5.9
496	11.50		35.598	4.94	0.83	6.2
595*	10.87		35.523	4.64	1.03	8.4
694	9.99		35.466	4.35	1.12	10.5
794*	9.38		35.463	4.27	1.15	11.6
893	9.06		35.536	4.33	1.12	12.2
992*	8.83		35.609	4.43	1.22	13.0
1091	8.10		35.549	4.71	1.20	14.9
1190*	7.26		35.460	4.92	1.20	15.7
1287*	6.43	35.335	35.339	5.11	1.12	15.0
1386	5.61	35.216	35.212	5.40	1.12	14.9
1584*	4.64	35.084	35.078	5.80	1.15	15.6
1784	4.05	35.006	35.001	6.03	1.14	15.4
1983*	3.71	34.982	34.978	6.15	1.12	17.4
2182	3.51	34.969	34.973	6.22	1.15	19.3
2481*	3.19	34.964	34.965	6.09	1.18	22.9
2780	2.96	34.957	34.952	6.03	1.18	29.5
3078*	2.85	34.953	34.945	6.03	1.22	36.3

DISCOVERY II I.G.Y. CRUISE 3 STATION 3887
 DATE 12 IX 1958 LAT. 42° 49' N LONG. 26° 49' W
 DEPTH 3248 m GMT 1229

DEPTH m	T °C	SALINITY U.S.	°/oo G.B.	O ₂ ml/l	PO ₄ -P ug at/l	Si ug at/l
1	18.16		35.834	5.36	0.16	1.9
50	17.86		35.836	5.49	0.16	2.6
99	14.35		35.885	5.45	0.50	2.2
198*	13.35		35.810	5.27	0.59	4.6
297	12.57		35.728	5.14	0.59	6.4
396*	11.93		35.633	5.09	0.70	6.1
495	11.05		35.502	4.81	1.00	8.0
593*	10.63		35.491	4.58	1.00	9.1
692	9.90		35.453	3.72?	1.03	11.1
791*	9.17		35.458	4.26	1.09	13.2
890	8.63		35.479	4.36	1.20	14.0
989*	7.93		35.453	4.59	1.12	14.2
1088	6.81		35.314	4.99	1.12	14.7
1187*	6.62		35.334	5.05	1.06	14.3
1314*	5.40	35.155	35.154	5.51	1.06	13.8
1514	4.24	34.999	34.995	5.97	1.06	14.0
1714*	3.84	34.964	34.955	6.03	1.06	15.0
1914	3.66	34.959	34.952	6.15	1.09	14.9
2114*	3.51	34.955	34.956	6.14	1.09	16.7
2314	3.37	34.961	34.957	6.19	1.09	18.9
2614*	3.12	34.953	34.956	6.03	1.09	23.2
2914	2.99	34.959	34.952	5.95	1.09	25.8
3214*	2.87	34.959	34.945	5.77	1.20	35.7

DISCOVERY II I.G.Y. CRUISE 3 STATION 3890
 DATE 13 IX 1958 LAT. 43° 00'N LONG. 21° 56'W
 DEPTH 2278 m GMT 1652

DEPTH m	T °C	SALINITY U.S.	SALINITY °/oo G.B.	O ₂ ml/l	P04-P ug at/l	SiO ₃ -Si ug at/l
1	17.98		35.620	5.45	0.26	2.3
50	15.89		35.809	5.85	0.23	1.5
99	13.39		35.806	5.36	0.53	4.6
198*	12.66		35.731	5.28	0.64	8.1
298	12.08		35.674	5.22	0.74	6.3
397*	11.61		35.594	5.12	0.91	7.5
496	11.17		35.564	4.95	0.83	7.4
595*	10.62		35.492	4.84	1.00	8.5
694	9.84		35.443	4.41	1.14	13.3
794*	9.93		35.654	4.26	1.14	13.8
893	9.20		35.607	4.25	1.10	14.9
992*	9.24		35.730	4.41	1.18	15.3
1091	8.00		35.534	4.68	1.18	16.9
1190*	7.37		35.476	4.88	1.18	16.8
1265*	6.76	35.386	35.389	5.15	1.18	15.5
1363	5.87	35.264	35.259?	5.41	1.12	15.8
1462*	5.24	35.178	35.173	5.65	1.14	15.8
1660	4.28	35.055	35.042	5.97	1.09	16.3
1857*	3.61	34.952	34.949	6.26	1.03	16.6
2055	3.48	34.956	34.949	6.29	1.09	16.2
2235*	3.28	34.964	34.952	6.14	1.09	21.2

DISCOVERY II I.G.Y. CRUISE 3 STATION 3889
 DATE 13 IX 1958 LAT. 43° 02'N LONG. 23° 50'W
 DEPTH 3402 m GMT 0632

DEPTH m	T °C	SALINITY U.S.	SALINITY °/oo G.B.	O ₂ ml/l	P04-P ug at/l	SiO ₃ -Si ug at/l
1	18.33		35.865	5.38	0.26	2.9
50	17.29		35.920	5.58	0.26	1.9
100	13.96		35.864	5.40	0.49	4.1
199*	13.19		35.787	5.26	0.60	5.8
299	12.54		35.708	5.11	0.73	5.6
408*	12.00		35.628	5.11	0.79	6.9
497	11.46		35.565	5.01	0.85	6.6
596*	10.49		35.424	4.56	0.99	10.2
694	10.07		35.482	4.36	1.12	10.7
793*	9.57		35.505	4.36	1.14	11.4
891	9.24		35.565	4.34	1.14	14.0
989*	8.88		35.595	4.40	1.14	12.2
1087	7.92		35.500	4.68	1.20	14.4
1184*	6.73		35.331	5.09	1.20	16.6
1289*	5.87	35.213	35.211	5.33	1.20	17.4
1388	5.36	35.151	35.153	5.54	1.12	17.0
1586*	4.69	35.093	35.077	5.85	1.12	16.8
1884	3.87	34.984	34.978	6.13	1.15	17.8
2181*	3.55	34.974	34.968	6.19	1.18	19.8
2479	3.25	34.971	34.958	6.11	1.18	25.0
2776*	3.04	34.956	34.958	5.99	1.27	29.4
3074	2.90	34.951	34.951	5.91	1.30	35.8
3371*	2.75	34.945	34.936	5.65	1.33	45.1

DISCOVERY II I.G.Y. CRUISE 3 STATION 3892

DATE 14 IX 1958 LAT. 43° 07'N LONG. 18° 40'W

DEPTH 4246 m GMT 1305

DEPTH m	T °C	SALINITY U.S.	°/oo G.B.	O ₂ ml/l	P04-P ug at/l	SiO ₃ -Si ug at/l
1	18.74		35.781	5.40	0.26	1.1
49	14.67		35.788	6.04?	0.34	1.0
99	13.09		35.737	5.40	0.56	3.4
198*	12.68		35.733	5.38	0.61	3.8
296	12.19?		35.678	5.37	0.65	4.6
395*	11.92		35.632	5.30	0.72	4.4
494	11.62		35.600	5.26	0.76	4.6
593*	11.20		35.548	5.01	0.98	6.1
691	10.69		35.508	4.74	1.01	7.1
790*	10.55		35.647	4.36	1.09	8.6
889	10.70		35.838	4.20	1.06	9.8
988*	10.35		35.853	4.25	1.15	13.6
1086	9.96		35.894	4.29	1.15	12.7
1185*	9.21		35.794	4.47	1.15	13.2
1252*	8.42	35.652	35.642	4.61	1.15	14.4
1350	7.41	35.500	35.499	4.88	1.14	12.8
1449*	6.09	35.286	35.286	5.35	1.15	14.4
1646	4.76	35.270	35.267	5.53	1.15	15.5
1843*	4.14	35.017	35.006	5.97	1.18	19.9
2139	3.79	34.994	34.984	6.07	1.12	27.2
2434*	3.41	34.972	34.968	6.03	1.14	37.4
2828	3.03	34.965	34.958	5.96	1.28	47.0
3223*	2.75	34.945	34.941	5.74	1.33	49.1
3715	2.61	34.925	34.919	5.71	1.45	---
4208*	2.58	34.919	34.910	5.45	1.40	---

DISCOVERY II I.G.Y. CRUISE 3 STATION 3891

DATE 14 IX 1958 LAT. 43° 07'N LONG. 20° 13'W

DEPTH 5965 m GMT 0410

DEPTH m	T °C	SALINITY U.S.	°/oo G.B.	O ₂ ml/l	P04-P ug at/l	SiO ₃ -Si ug at/l
1	19.04		35.840	5.58	0.16	2.1
49	16.47		35.830	5.74	0.26	1.4
99	13.54		35.794	5.38	0.49	4.0
197*	12.69		35.732	5.40	0.62	4.4
296	12.11		35.658	5.17	0.76	6.2
394*	11.56		35.589	5.21	0.88	5.9
493	11.12		35.548	5.01	1.12	6.2
591*	10.65		35.508	4.65	1.15	8.6
690	10.24		35.532	4.26	1.15	10.9
788*	9.65		35.532	4.24	1.20	11.6
887	9.43		35.631	4.22	1.28	12.0
985*	8.85		35.607	4.37	1.15	12.6
1084	7.96		35.515	4.72	1.23	13.9
1182*	7.57		35.514	4.84	---	13.7
1257*	6.57	35.361	35.363	5.22	1.06	15.1
1355	5.77	35.241	35.233	5.42	1.09	16.2
1454*	4.96	35.117	35.110	5.67	0.87	14.6
1650	4.18	35.005	35.000	6.05	1.03	14.6
1946*	3.66	34.951	34.947	6.25	1.01	15.0
2245	3.46	34.966	34.957	6.20	1.09	17.8
2548*	3.15	34.971	34.958	6.08	1.33	23.5
2854	2.94	34.960	34.951	5.90	1.33	29.8
3260*	2.74	34.943	34.937	5.84	1.23	36.9
3541*	2.69	34.931	34.933	5.49	1.22	47.8
3938	2.62	34.931	34.918	5.37	1.28	51.0
4335*	2.65	34.927	34.915	5.44	1.28	52.5
4732	2.72	34.929	34.913	5.51	1.28	53.9
5129*	2.74	34.923	34.912	5.45	1.32	51.8
5525	2.79	34.919	34.916	5.45	1.27	52.9
5922*	2.87	34.922	34.913	5.12	1.27	54.8

DISCOVERY II I.G.Y. CRUISE 3 STATION 3894

DATE 15 IX 1958 LAT. 43° 09'N LONG. 15° 30'W

DEPTH 4769 m GMT 0706

DEPTH m	T °C	SALINITY U.S.	°/oo G.B.	O ₂ ml/l	PO ₄ -P ug at/1	SiO ₃ -Si ug at/1
1	19.00		35.839	5.04	0.31	1.8
49	17.86		35.806	5.49	0.31	1.2
99	13.30		35.802	5.54	0.60	2.3
198*	12.41		35.717	5.22	0.76	4.4
297	11.78		35.630	5.27	0.82	4.7
396*	11.42		35.586	5.14	0.87	4.8
495	11.08		35.565	4.94	0.91	6.2
593*	10.71		35.550	4.70	0.98	7.1
692	10.19		35.553	4.37	1.05	8.5
791*	9.23		35.460	4.33	1.18	11.2
890	9.77		35.743	4.31	1.14	12.2
989*	9.89		35.901	4.28	1.06	11.1
1088	9.49		35.880	4.45	1.12	17.1
1187	----		35.811	4.60	1.09	14.8
1168*	9.01	35.815	35.812	4.52	1.15	14.3
1267	8.01	35.668	35.661	4.75	1.15	15.5
1465*	5.78	35.316	35.275	5.35	1.15	17.5
1663	4.79	35.130	35.126	5.68	1.17	16.0
1960*	3.88	35.015	35.012	5.97	1.18	18.6
2356	3.38	34.986	34.986	5.81	1.18	26.2
2752*	3.03	34.984	34.963	5.68	1.27	34.0
3247	2.74	34.943	34.937	5.60	1.35	44.5
3742*	2.62	34.961?	34.924	5.54	1.45	49.5
4237	2.53	34.909	34.908	5.56	1.45	52.6
4732*	2.57	34.903	34.904	5.35	1.45	54.7

DISCOVERY II I.G.Y. CRUISE 3 STATION 3893

DATE 14 IX 1958 LAT. 43° 08'N LONG. 17° 06'W

DEPTH 4433 m GMT 2201

DEPTH m	T °C	SALINITY U.S.	°/oo G.B.	O ₂ ml/l	PO ₄ -P ug at/1	SiO ₃ -Si ug at/1
1	19.34		35.915	5.36	0.35	2.1
50	17.47		35.874	5.67	0.34	1.4
99	13.13		35.797	5.61	0.61	2.7
198*	12.41		35.717	5.37	0.79	4.4
298	11.86		35.645	5.17	0.86	5.6
397*	11.45		35.591	5.10	0.86	6.0
496	11.02		35.565	4.91	1.01	7.4
595*	10.60		35.550	4.53	1.12	9.4
694	10.19		35.591	4.29	1.20	10.4
793*	9.56		35.572	4.22	1.25	11.7
893	9.96		35.826	4.25	1.25	12.1
992*	9.51		35.820	4.31	1.25	12.6
1091	8.51		35.679	4.60	1.25	15.9
1190*	8.03		35.647	4.76	1.25	15.9
1321*	6.46	35.374	35.383	5.17	1.25	16.3
1421	4.97	35.113	35.109	5.67	1.25	16.4
1520*	4.45	35.042	35.030	5.85	1.25	15.6
1719	4.09	34.998	34.999	5.98	1.12	16.3
2016*	3.74	34.986	34.985	6.12	1.15	18.6
2413	3.31	34.975	34.976	5.87	1.25	25.8
2809*	2.96	34.967	34.959	5.74	1.28	----
3208	2.73	34.955	34.940	5.67	1.41	45.1
3607*	2.62	34.931	34.927	5.58	1.46	51.5
4007	2.57	34.927	34.915	5.51	1.50	54.5
4407*	2.55	34.910	34.905	5.35	1.45	58.7

DISCOVERY II I.G.Y. CRUISE 3 STATION 3896

DATE 16 IX 1958 LAT. 43° 06'N LONG. 120° 46'W

DEPTH 4963 m GMT 0012

DEPTH m	T °C	SALINITY U.S.	°/oo G.B.	O ₂ ml/l	P04-P ug at/l	Si03-Si ug at/l
1	18.98		35.667	5.36	0.32	1.5
49	15.84		35.795	5.75	0.26	1.4
99	12.79		35.746	5.51	0.62	3.1
197*	11.94		35.672	5.51	0.67	4.0
296	11.59		35.629	5.42	0.77	4.1
394*	11.30		35.596	5.15	0.81	5.1
493	10.91		35.571	4.82	0.92	5.2
591*	10.60		35.598	4.59	1.03	8.6
690	10.46		35.660	4.33	1.12	10.9
788*	10.30		35.739	4.31	1.20	11.6
887	10.11		35.793	4.22	1.18	15.4
985*	9.77		35.803	4.31	1.15	14.5
1084	9.18		35.774	4.26	1.18	15.7
1182*	8.68		35.728	4.33	1.18	16.0
1279*	7.65	35.569	35.581	4.83	1.18	16.6
1378	6.79	35.442	35.450	5.11	1.18	16.8
1576*	5.20	35.183	35.191	5.45	1.24	17.6
1775	4.35	35.060	35.065	5.68	1.18	18.8
2073*	3.67	34.997	34.996	5.91	1.32	22.4
2470	3.22	34.978	34.977	5.68	1.32	32.6
2967*	2.84	34.952	34.953	5.58	1.52	44.0
3464	2.64	34.922	34.927	5.53	1.46	52.0
3960*	2.52	34.911	34.914	5.49	1.46	56.3
4457	2.53	34.905	34.903	5.58	1.46	59.3
4955*	2.58	34.922?	34.901	5.38	1.28	60.6

DISCOVERY II I.G.Y. CRUISE 3 STATION 3895

DATE 15 IX 1958 LAT. 43° 08'N LONG. 130° 44'W

DEPTH 5294 m GMT 1659

DEPTH m	T °C	SALINITY U.S.	°/oo G.B.	O ₂ ml/l	P04-P ug at/l	Si03-Si ug at/l
1	19.06		35.752	5.34	0.26	3.4
50	16.24		35.733	5.68	0.29	1.9
99	12.93		35.760	5.51	0.54	2.6
198*	12.04		35.663	5.40	0.69	5.8
297	11.76		35.650	5.51	0.75	5.5
396*	11.44		35.607	5.30	0.75	6.7
495	11.16		35.583	5.14	0.81	8.3
594*	10.84		35.575	4.81	0.90	8.6
693	10.55		35.613	4.41	1.06	12.2
792*	10.65		35.752	4.25	1.11	12.6
891	10.87		35.916	4.13	1.11	12.6
990*	10.62		35.959	4.16	1.15	12.4
1089	10.09		35.938	4.27	1.09	12.3
1188*	9.48		35.872	4.43	1.15	13.0
1275*	8.90	35.777	35.790	4.48	1.18	12.8
1372	7.92	35.629	35.643	4.66	1.12	13.6
1567*	5.94	35.316	35.314	5.15	1.12	14.5
1858	4.34	35.063	35.064	5.59	1.09	16.2
2248*	3.62	35.003	35.007	5.74	1.21	21.9
2734	3.05	34.963	34.967	5.51	1.21	32.9
3221*	2.73	34.944	34.940	5.48	1.32	42.7
3707	2.61	34.924	34.924	5.45	1.36	47.5
4194*	2.52	34.906	34.909	5.48	1.46	51.7
4680	2.56	34.909	34.904	5.45	1.36	53.0
5167*	2.61	34.904	34.903	5.25	1.21	54.9

DISCOVERY II I.G.Y. CRUISE 3 STATION 3898

DATE 16 IX 1958 LAT. 43° 04'N LONG. 11°23'W

DEPTH 2562 m GMT 0933

DEPTH m	T °C	SALINITY U.S.	SALINITY ‰ G.B.	O ₂ ml/l	P04-P ug at/l	SiO ₃ -Si ug at/l
1	19.44		35.726	5.29	0.26	1.3
49	14.87		35.841	5.67	0.35	2.9
98	13.15		35.816	5.51	0.48	3.4
196*	12.30		35.716	5.46	0.59	4.6
294	12.83?		35.655	5.46	0.67	4.9
392*	11.50		35.637	5.28	0.77	5.0
491	11.15		35.602	4.99	0.80	6.4
589*	10.86		35.598	4.73	0.89	7.7
687	10.67		35.699	4.36	1.03	9.7
786*	10.72		35.830	4.25	1.06	11.5
886	10.28		35.844	4.22	1.03	11.8
985*	9.88		35.823	4.29	1.03	12.0
1085	9.69		35.859	4.36	1.03	12.7
1184*	9.40		35.844	4.45	1.06	12.7
1245*	8.50	35.736	35.735	4.66	1.06	13.9
1343	7.62	35.587	35.592	4.88	1.06	14.2
1442*	6.72	35.434	35.445	5.22	1.09	14.5
1540	5.73	35.284	35.285	5.42	1.09	14.7
1738*	4.52	35.102	35.111	5.83	1.15	17.5
1935	3.95	35.031	35.027	5.91	1.20	18.7
2133*	3.58	35.003	35.004	5.91	1.28	22.9
2332	3.33	34.992	34.987	5.90	1.21	26.9
2532*	3.16	34.973	34.974	5.66	1.21	31.6

DISCOVERY II I.G.Y. CRUISE 3 STATION 3897

DATE 16 IX 1958 LAT. 43° 05'N LONG. 12° 05'W

DEPTH 1474 m GMT 0539

DEPTH m	T °C	SALINITY U.S.	SALINITY ‰ G.B.	O ₂ ml/l	P04-P ug at/l	SiO ₃ -Si ug at/l
1	19.37		35.766	5.28	0.15	2.6
50	16.41		35.739	5.68	0.15	1.5
149	12.43		35.744	5.45	0.59	4.1
249*	11.85		35.660	5.45	0.67	5.1
348	11.49		35.611	4.78?	0.74	5.6
448*	11.26		35.599	5.23	0.75	6.0
547	10.87		35.571	5.49	0.81	8.1
647	10.73		35.657	4.36	0.98	10.4
746	10.76		35.789	4.29	1.00	11.3
846*	10.78		35.918	4.11	1.00	13.4
945	10.52		35.937	4.20	1.00	13.3
1045*	9.73		35.863	4.42	1.06	14.1
1144	9.26		35.830	4.47	1.12	14.9
1244*	8.38		35.709	4.75	1.12	15.2
1343	7.31		35.537	4.99	1.12	16.2
1443*	6.86		35.468	5.10	1.09	17.0

DISCOVERY II I.G.Y. CRUISE 3 STATION 3900

DATE 16 IX 1958 LAT. 43° 06'N LONG. 9° 45'W

DEPTH 2213 m GMT 2003

DEPTH m	T °C	SALINITY U.S.	°/∞ G.B.	O ₂ ml/l	P04-P ug at/l	SiO ₃ -Si ug at/l
1	19.39		35.610	5.42	0.41	2.7
49	16.43		35.617	5.89	0.34	3.3
98	13.41		35.748	5.26	0.70	4.4
197*	12.12		35.696	5.40	0.76	5.0
296	11.76		35.667	5.23	0.89	5.6
394*	11.43		35.638	5.01	0.92	6.6
493	11.13		35.656	4.79	0.92	8.0
592*	11.07		35.776	4.43	---	9.7
691	11.12		35.932	4.31	0.95	11.0
790*	11.11		35.998	4.21	---	11.3
890	11.24		36.111	4.21	0.92	10.9
989*	11.02		36.120	4.22	1.00	11.8
1088	10.70		36.116	4.31	1.00	12.4
1188*	10.59		36.128	4.22	1.00	12.8
1278*	10.30	36.074	36.094	4.29	1.00	12.7
1376	9.43	35.944	35.960	4.52	1.05	13.9
1475*	7.89	35.673	35.675	4.82	1.09	15.9
1573	5.90	35.288	35.295	5.36	---	13.1
1769*	4.41	35.077	35.081	5.87	1.22	15.4
1966	4.03	35.056	35.054	5.91	1.25	20.3
2163*	3.38	35.006	34.997	5.78	1.25	28.6

DISCOVERY II I.G.Y. CRUISE 3 STATION 3899

DATE 16 IX 1958 LAT. 43° 05'N LONG. 10° 28'W

DEPTH 3573 m GMT 1459

DEPTH m	T °C	SALINITY U.S.	°/∞ G.B.	O ₂ ml/l	P04-P ug at/l	SiO ₃ -Si ug at/l
1	19.64		35.560	5.37	0.15	2.0
49	15.99		35.641	5.88	0.17	0.7
98	12.55		35.697	5.51	0.58	3.2
196*	11.74		35.651	5.56	0.63	3.7
294	11.51		35.624	5.54	0.63	3.6
392*	11.28		35.594	5.40	0.70	4.4
490	10.97		35.581	5.45	0.81	6.4
587*	10.70		35.602	4.55	1.05	7.8
685	10.69		35.711	4.33	1.09	9.1
783*	10.66		35.827	4.18	1.15	9.9
881	10.59		35.911	4.18	1.08	10.2
979*	10.45		35.984	4.23	1.12	10.6
1077	10.32		36.028	4.26	1.13	11.5
1175*	10.00		36.032	4.36	1.08	12.1
1268*	9.08	35.848	35.860	4.55	1.12	12.1
1368	7.70	35.617	35.630	4.89	1.08	12.7
1467*	6.31	35.359	35.369	5.15	1.20	12.3
1566	5.44	35.215	35.221	5.45	1.16	12.1
1764*	4.47	35.077	35.083	5.83	1.20	19.7
2061	3.83	35.016	35.024	5.89	1.30	24.7
2359*	3.41	35.002	34.993	5.80	1.34	29.2
2657	3.04	34.973	34.968	5.94	1.06	36.0
2956*	2.80	34.946	34.949	5.73	1.60	42.4
3255	2.67	34.933	34.934	5.53	1.49	47.3
3555*	2.59	34.922	34.927	5.42	1.57	52.5

DISCOVERY II I.G.Y. CRUISE 3 STATION 3902
 DATE 20 IX 1958 LAT. 43° 52'N LONG. 80° 03'W
 DEPTH 130 m GMT 1635

DISCOVERY II I.G.Y. CRUISE 3 STATION 3901
 DATE 16 IX 1958 LAT. 43° 07'N LONG. 90° 35'W
 DEPTH 291 m GMT 2213

DEPTH m	T °C	SALINITY U.S.	°/∞ G.B.	O ₂ ml/l	PO ₄ -P ug at/l	SiO ₃ -Si ug at/l
1	18.90		35.661	5.49	----	1.9
40	16.93		35.678	5.65	----	2.1
80	14.73		35.685	5.54	0.40	3.9
120*	11.93		35.672	5.34	0.48	6.2

DEPTH m	T °C	SALINITY U.S.	°/∞ G.B.	O ₂ ml/l	PO ₄ -P ug at/l	SiO ₃ -Si ug at/l
1	19.43		35.654	5.41	0.40	2.2
24	18.47		35.623	5.65	0.18	1.5
48	14.74		35.696	5.60	0.40	3.0
76*	13.25		35.748	5.38	0.59	5.2
172	11.72		35.657	5.25	0.73	6.8
267*	11.47		35.651	4.99	0.87	8.8

DISCOVERY II I.G.Y. CRUISE 3 STATION 3904

DATE 21 IX 1958 LAT. 44° 21' N LONG. 80° 01' W
 DEPTH 4632 m GMT 0524

DEPTH m	T °C	SALINITY U.S.	°/oo G.B.	O ₂ ml/l	PO ₄ -P ug at/l	SiO ₃ -Si ug at/l
1	18.42		35.644	5.44	0.29	3.0
50	15.38		35.684	---	0.33	2.0
99	12.08		35.686	5.53	0.75	3.5
198*	11.68		35.685	5.60	0.70	4.6
298	11.46		35.625	5.41	0.81	5.1
397*	11.22		35.604	5.23	0.81	6.2
496	10.89		35.597	4.94	0.95	8.1
595*	10.71		35.648	4.59	1.15	9.0
694	10.55		35.725	4.39	1.08	11.0
794*	10.81		---	4.25	1.15	12.3
893	10.81		35.967	4.28	1.06	12.1
992*	10.63		36.028	4.21	1.03	13.5
1091	10.20		35.992	4.33	1.08	15.1
1190*	9.37		35.842	4.49	1.14	---
1232*	8.69	35.716	35.728	4.55	1.15	
1330	7.84	35.594	35.606	4.87	1.18	
1429*	6.87	35.436	35.431	5.07	1.12	
1627	5.43	35.200	35.192	5.51	1.18	
1924*	4.08	35.052	35.056	5.69	1.37	
2220	3.56	35.004	34.996	5.83	1.32	
2616*	3.03	34.965	34.978	5.85	1.37	
3112	2.71	34.934	34.938	5.84	1.46	
3608*	2.54	34.924	34.917	5.51	1.62	
4104	2.50	34.929	34.905	5.59	1.62	
4601*	2.55	34.901	34.905	5.52	1.53	

DISCOVERY II I.G.Y. CRUISE 3 STATION 3903

DATE 20 IX 1958 LAT. 44° 02' N LONG. 70° 59' W
 DEPTH 212 m GMT 1807

DEPTH m	T °C	SALINITY U.S.	°/oo G.B.	O ₂ ml/l	PO ₄ -P ug at/l	SiO ₃ -Si ug at/l
1	18.87		35.630	5.48	0.21	2.7
24	18.50		35.658	5.51	0.10	1.9
49	15.29		35.676	5.69	0.33	3.7
97*	12.85		35.686	5.45	0.78	5.0
146	11.96		35.668	5.56	0.98	5.9
194*	11.79		35.669	5.32	---	6.2

DISCOVERY II I.G.Y. CRUISE 3 STATION 3906

DATE 22 IX 1958 LAT. 45° 25' N LONG. 7° 38' W

DEPTH 4872 m GMT 0751

DEPTH m	T °C	SALINITY U.S.	SALINITY °/‰ G.B.	O ₂ ml/l	P04-P ug at/l	SiO ₃ -Si ug at/l
1	18.21		35.631	5.60	0.15	1.6
49	15.50		35.631	5.91	0.28	2.1
98	11.85		35.665	5.60	0.63	7.8
197*	11.61		35.651	5.77	0.56	13.5
295	11.46		35.649	5.68	0.56	18.0
394*	11.34		35.619	5.66	0.70	7.4
492	11.20		35.607	5.17	0.70	9.3
590*	10.92		35.631	5.14	0.86	11.1
689	10.60		35.596	4.71	0.86	14.1
787*	10.38		35.635	4.45	0.93	14.4
886	10.18		35.719	4.32	0.93	14.4
984*	9.79		35.760	4.48	1.03	14.1
1082	9.59		35.824	4.41	1.03	14.7
1181*	9.22		35.807	4.50	1.06	15.0
1271*	8.51	35.689	35.692	4.58	1.06	19.6
1369	7.39	35.511	35.512	4.84	1.06	20.4
1467*	6.60	35.386	35.389	5.14	1.09	22.1
1663	5.23	35.236	35.189	---	1.09	26.8
1956*	4.25	35.081	35.081	5.63	1.09	32.7
2350	3.44	34.993	34.995	5.68	1.17	40.3
2842*	2.92	34.957	34.950	5.80	1.41	52.3
3335	2.68	34.922	34.921	5.68	1.36	56.3
3830*	2.55	34.921	34.909	5.74	1.41	56.4
4325	2.54	34.911	34.897	5.72	1.41	63.4
4822*	2.57	34.899	34.896	5.17	1.32	20.7?

DISCOVERY II I.G.Y. CRUISE 3 STATION 3905

DATE 21 IX 1958 LAT. 44° 55' N LONG. 7° 37' W

DEPTH 4888 m GMT 1125

DEPTH m	T °C	SALINITY U.S.	SALINITY °/‰ G.B.	O ₂ ml/l	P04-P ug at/l	SiO ₃ -Si ug at/l
1	18.77		35.600	5.48	0.29	1.6
48	17.26		35.627	5.63	0.40	1.8
97	12.00		35.657	5.59	0.75	3.8
193*	11.59		35.641	5.66	0.64	4.2
290	11.42		35.623	5.58	0.81	5.3
388*	11.27		35.617	5.51	0.78	6.0
486	11.02		35.599	5.23	0.86	5.9
584*	10.71		35.604	4.82	1.03	8.4
682	10.48		35.650	4.52	1.08	8.9
780*	10.45		35.733	4.36	1.18	9.0
879	10.11		35.753	4.28	1.09	10.0
978	9.82		35.796	4.26	1.09	9.6
1078	9.12		35.738	4.55	1.12	10.3
1177*	8.22		35.636	4.68	1.25	13.3
1286*	7.28	35.474	35.498	4.89	1.25	13.0
1385	6.57	35.377	35.399	5.05	1.25	13.5
1485*	6.03	35.311	35.319	5.19	1.17	---
1584	5.33	35.200	35.214	5.37	1.32	16.0
1981	3.97	35.045	35.054	5.71	1.25	19.6
2377	3.27	34.984	35.008	5.72	1.32	26.1
2874*	2.87	34.947	34.958	5.67	1.32	33.3
3371	2.64	34.923	34.939	5.51	1.32	38.9
3869*	2.52	34.911	34.921	5.56	1.46	40.7
4367	2.51	34.908	34.913	5.53	1.41	46.2
4866*	2.58	34.906	34.910	5.34	1.34	44.5

DISCOVERY II I.G.Y. CRUISE 3 STATION 3908

DATE 22 IX 1958 LAT. 46° 37'N LONG. 70 27'W
 DEPTH 4629 m GMT 2044

DEPTH m	T °C	SALINITY U.S.	SALINITY °/oo G.B.	O ₂ ml/l	P04-P ug at/1	SiO ₃ -Si ug at/1
1	17.40			5.56	0.32	6.6
50	14.85			5.65	0.36	6.8
100	12.02			5.63	0.63	5.6
199*	11.57			5.57	0.67	5.6
299	11.38			5.53	0.71	7.4
398*	11.15			5.40	0.75	7.4
498	10.92			5.14	0.81	8.0
597	10.63			4.84	0.90	11.1
697	10.31			4.50	1.09	12.7
797*	10.23			4.29	1.25	13.4
896	9.85			4.25	1.06	17.2
1096	8.83			4.40	1.18	15.5
1195*	8.13			4.59	1.18	17.1
				4.68	1.18	18.0
1295*	7.38	35.489		4.88	1.18	15.0
1393	6.50	35.554*		5.28	1.15	18.1
1491*	5.64	35.217		5.35	1.09	20.9
1689	4.37	35.040		5.83	1.09	19.7
1885*	3.94	35.000		5.85	1.25	19.0
2181	3.61	35.007		5.66	1.25	17.0
2575*	3.12	34.967	34.972	5.57	1.41	41.6
3070	2.77	34.936	34.941	5.53	1.41	48.3
3566*	2.60	34.922	34.923	5.44	1.41	54.0
4062	2.55	34.906	34.911	5.46	1.41	59.9
4560*	2.55	34.904	34.904	5.20	1.25	32.6

DISCOVERY II I.G.Y. CRUISE 3 STATION 3907

DATE 22 IX 1958 LAT. 46° 00'N LONG. 70 34'W
 DEPTH 4794* m GMT 1437

DEPTH m	T °C	SALINITY U.S.	SALINITY °/oo G.B.	O ₂ ml/l	P04-P ug at/1	SiO ₃ -Si ug at/1
1	17.51			5.57	0.21	1.7
50	12.87			5.60	0.59	5.8
99	11.91			5.51	0.60	7.9
199*	11.65			5.45	0.59	6.5
298	11.45			5.45	0.73	6.9
397*	11.31			5.35	0.75	8.1
497	11.03			5.22	0.83	7.3
596*	10.68			5.22	0.95	10.5
695	10.44			4.91	0.98	12.2
794*	10.18			4.45	1.09	15.0
894	10.00			4.31	1.09	18.0
993*	9.73			4.28	1.09	15.1
1092	9.18			4.45	1.12	17.9
1192*	8.37			4.61	1.15	17.4
1321*	7.33	35.487		4.86	1.15	19.2
1420	6.22	35.309		5.17	1.12	19.4
1519*	5.54	35.205		5.41	1.25	21.1
1718	4.50	35.070		5.83	1.17	23.5
2016*	3.80	35.009		5.81	1.17	28.0
2314	3.38	34.994		5.81	1.20	36.9
2810*	2.92	34.953		5.63	1.32	46.1
3307	2.70	34.932		5.56	1.32	53.8
3803*	2.57	34.923		5.51	1.46	59.4
4300	2.54	34.909		5.58	1.46	62.9
4794*	2.58	-----	-----	Mud	-----	-----

DISCOVERY II I.G.Y. CRUISE 3 STATION 3909

DATE 23 IX 1958 LAT. 47° 09'N LONG. 7° 25'W

DEPTH 4285 m GMT 0233

DEPTH m	T °C	SALINITY U.S.	SALINITY °/oo G.B.	O ₂ ml/l	P04-P ug at/l	Si03-Si ug at/l
1	16.89			5.59	0.26	1.7
48	16.87			5.58	0.26	3.9
96	12.27			5.58	0.64	7.1
192*	11.70			5.67	0.75	6.1
289	11.52			5.64	0.73	6.5
386*	11.40			5.66	0.77	6.8
484	11.09			5.30	0.89	6.7
582*	10.69			4.88	0.98	10.9
680	10.32			4.52	1.09	12.0
780*	9.98			4.55	1.09	12.7
879	9.68			4.33	1.09	14.2
979*	9.37			4.42	1.09	15.0
1080	8.92			4.59	1.19	14.9
1182*	7.99			4.64	1.19	18.5
1190*	8.17	35.571		4.73	1.09	16.6
1290	7.13	35.432		4.97	1.18	18.3
1389*	6.41	35.337		5.10	1.15	21.8
1587	5.00	35.122		5.58	1.15	19.2
1786*	4.31	35.053		5.63	1.09	20.7
2083	3.73	35.006		5.81	1.18	25.0
2480*	3.16	34.970	34.972	5.57	1.25	30.9
2877	2.86	34.947	34.945	5.48	1.30	46.2
3274*	2.66	34.929	34.929	5.43	1.46	52.9
3770	2.57	34.917	34.921	5.56	1.46	58.1
4266*	2.53	34.903	34.900	5.50	1.36	62.4

DISCOVERY II I.G.Y. CRUISE 3 STATION 3910

DATE 23 IX 1958 LAT. 47° 22'N LONG. 7° 24'W

DEPTH 3630 m GMT 0615

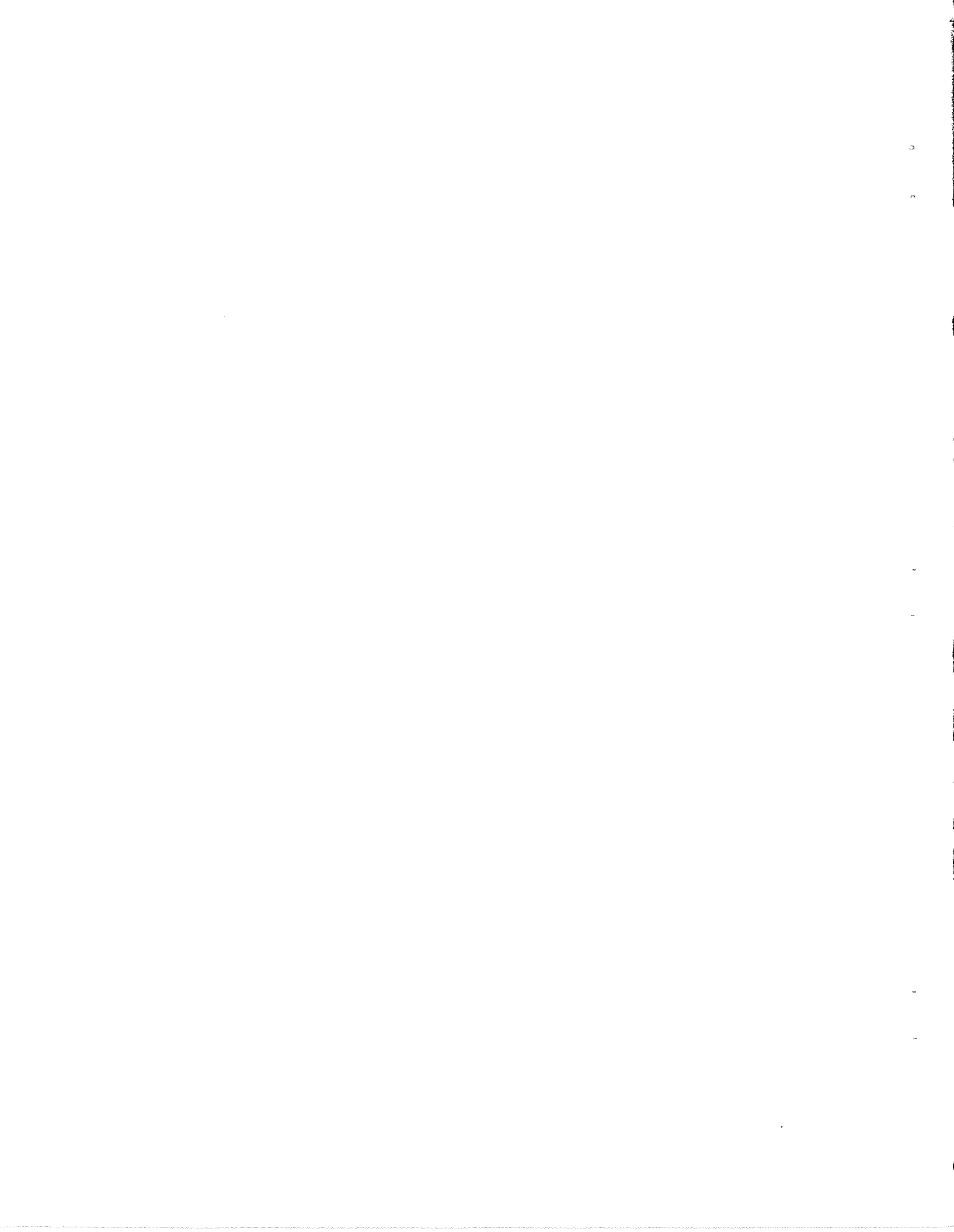
DEPTH m	T °C	SALINITY U.S.	SALINITY °/oo G.B.	O ₂ ml/l	P04-P ug at/l	Si03-Si ug at/l
1	16.88			5.60		2.3
49	14.33			5.68		5.3
98	11.99			5.67		6.5
195*	11.61			5.65		4.8
293	11.44			5.79		5.6
390*	11.25			5.51		5.9
488	11.01			5.25		5.6
586	10.66			5.05		8.4
683	10.36			5.13		9.1
781*	10.09			4.42		10.0
878	9.78			4.48		11.1
976*	9.36			4.43		---
1074	8.93			4.74		11.8
1172*	8.41			5.05		14.1
1289*	7.84	35.546		5.02	1.15	14.4
1388	6.83	35.395		5.28	1.11	16.0
1487*	6.16	35.309		5.23	1.00	16.1
1686	5.02	35.159		5.67	1.09	17.1
1884*	4.38	35.081		6.03	1.09	19.2
2181	3.78	35.030		6.14	1.22	27.0
2578*	3.09	34.973	34.967	6.52	1.46	34.2
3074	2.78	34.948	34.937	6.04	1.41	43.4
3569*	2.65	34.923	34.922	5.83	1.56	45.4

DISCOVERY II I.G.Y. CRUISE 3 STATION 3911

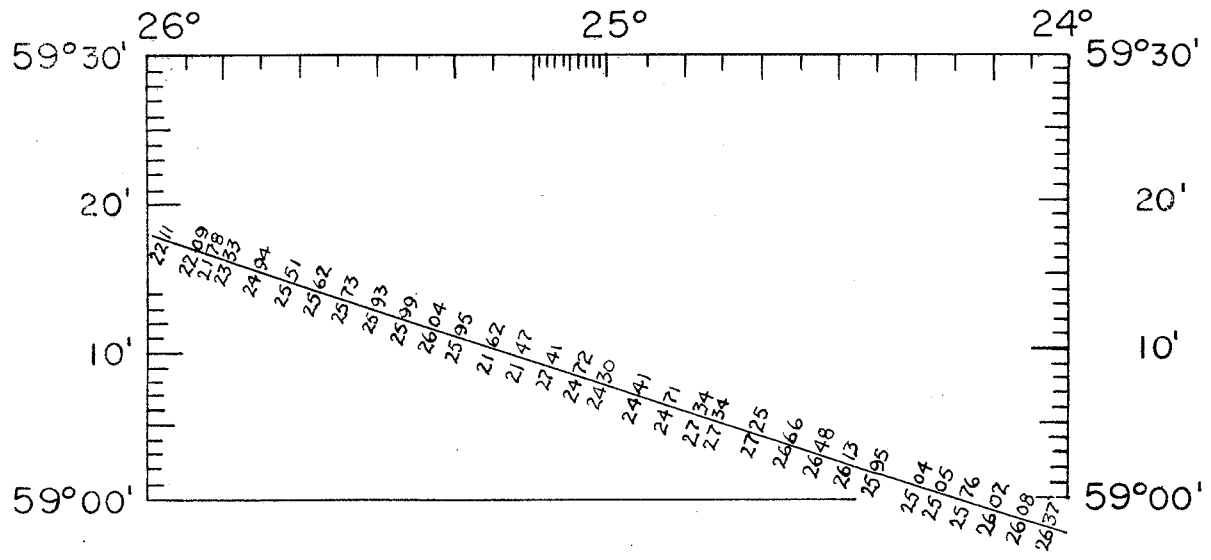
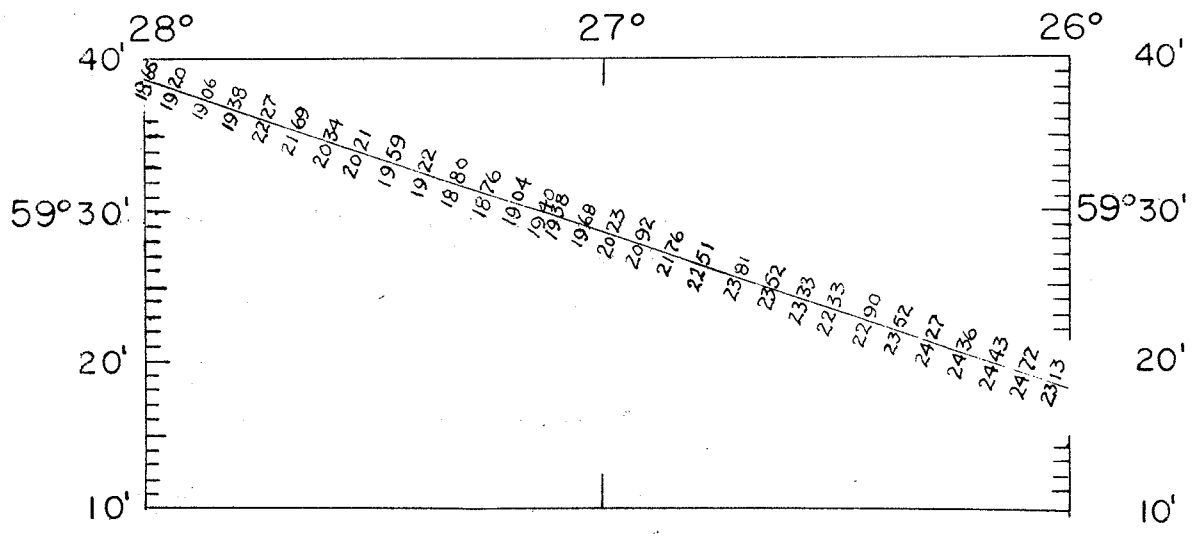
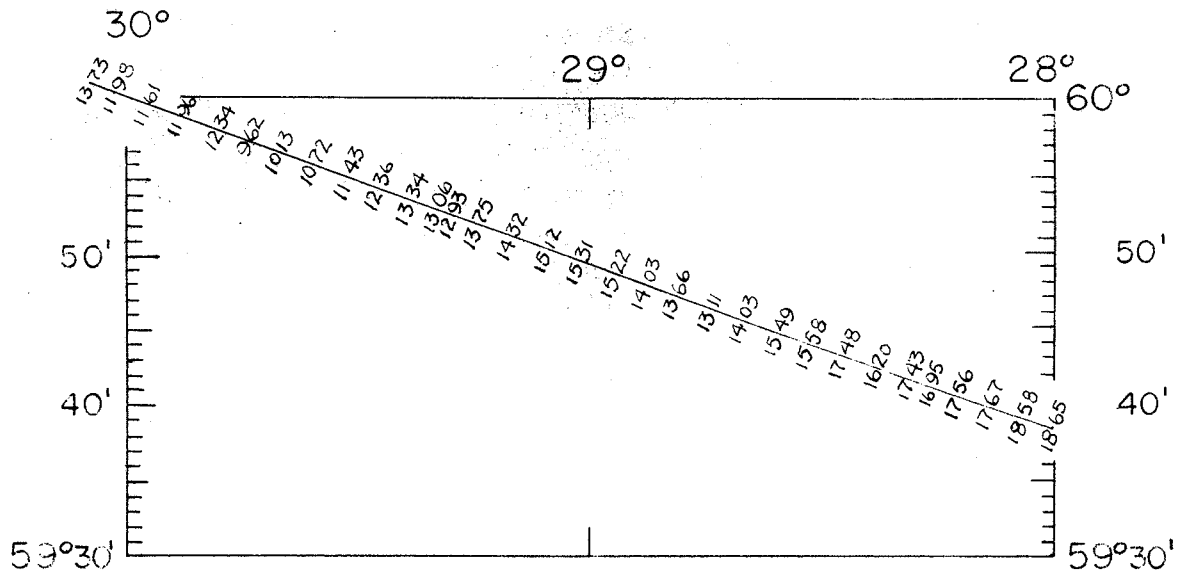
DATE 23 IX 1958 LAT. 47° 38'N LONG. 7° 20'W

DEPTH 441 m GMT 0951

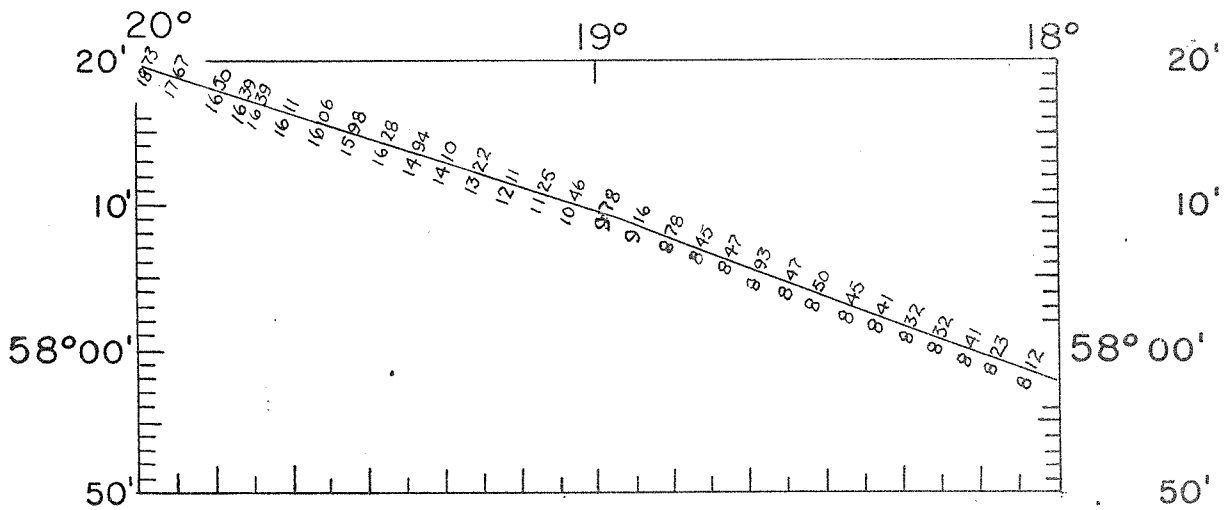
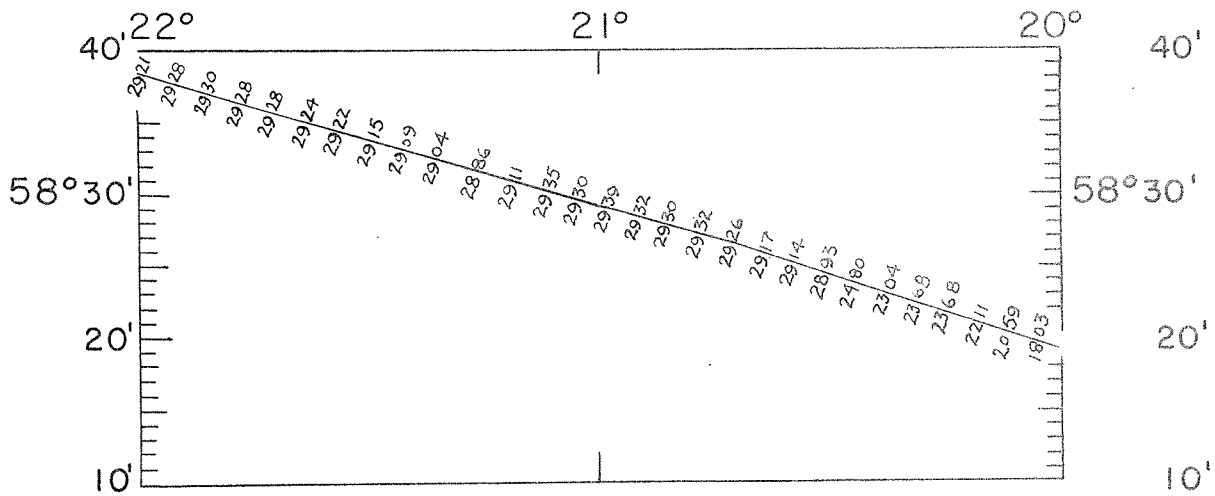
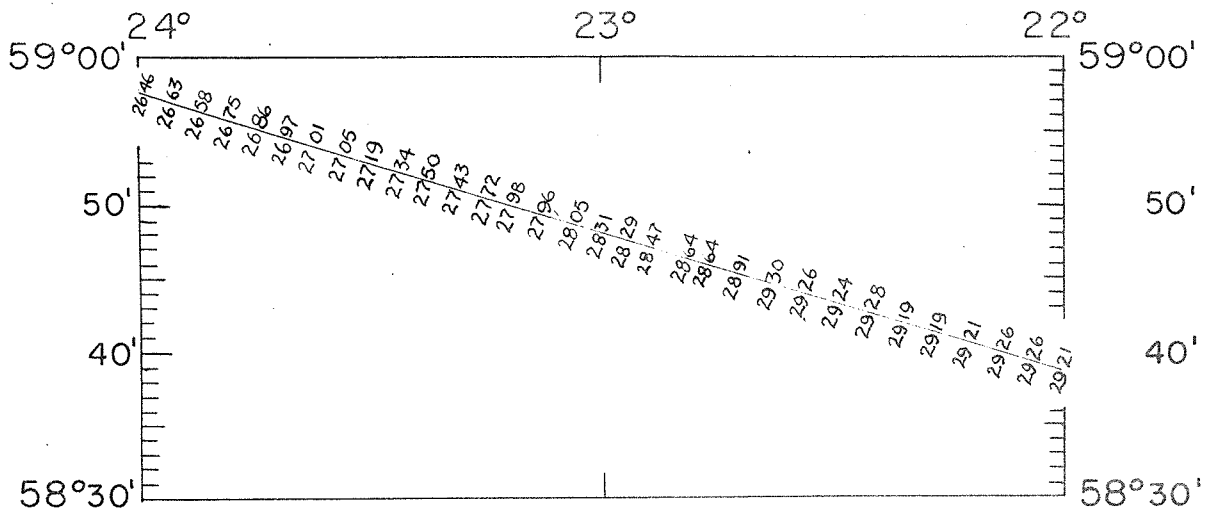
DEPTH m	T °C	SALINITY ‰		O ₂ ml/l	P04-P ug at/l	Si03-Si ug at/l
		U.S.	G.B.			
1	16.16			5.65	0.40	1.7
50	13.09			5.32	0.73	2.8
99	12.32			5.35	0.68	5.0
198*	11.89			5.30	0.81	8.2
297	11.41			5.42	0.84	6.2
396*	11.04			5.19	0.95	6.8



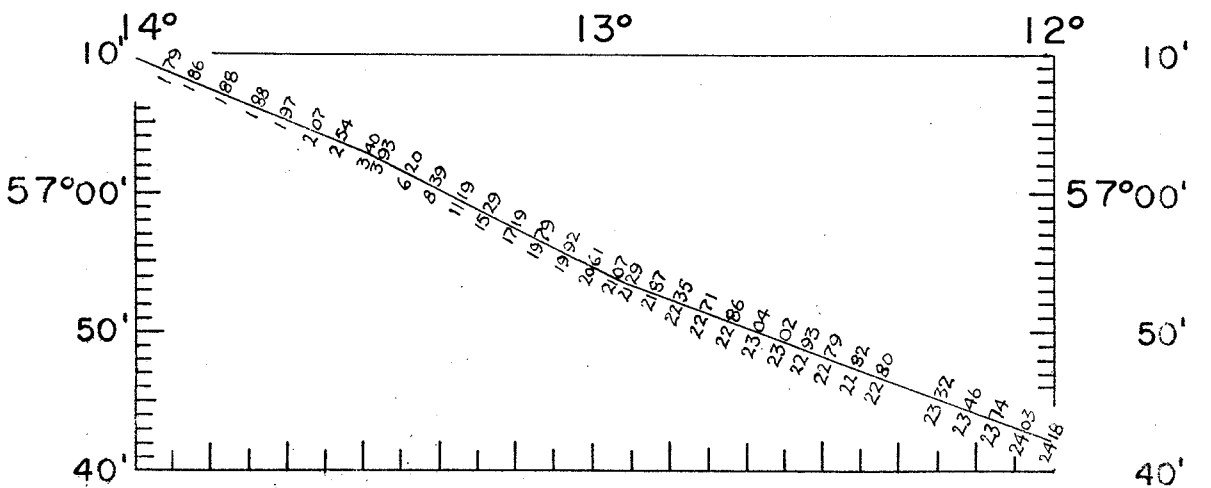
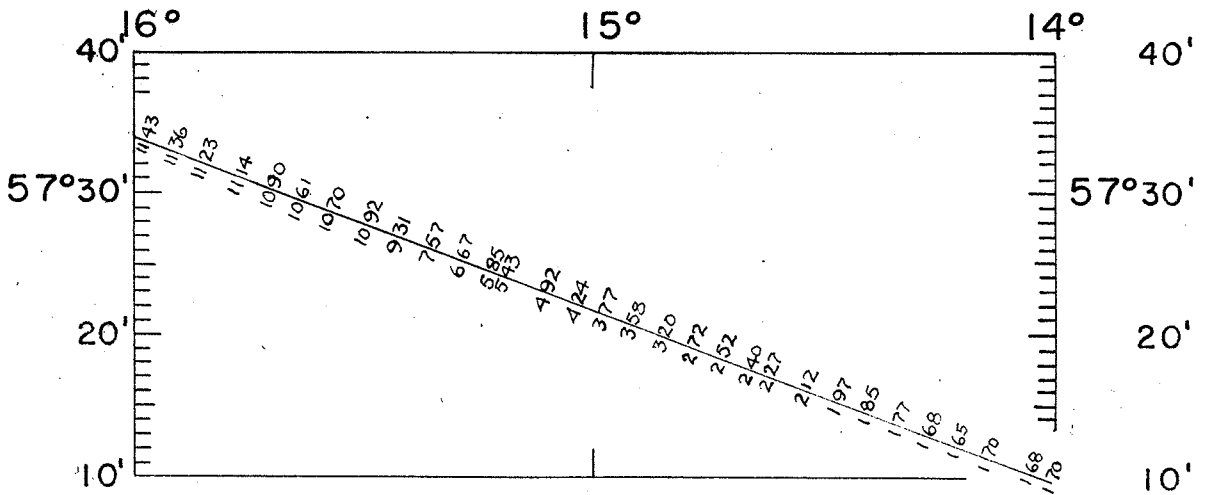
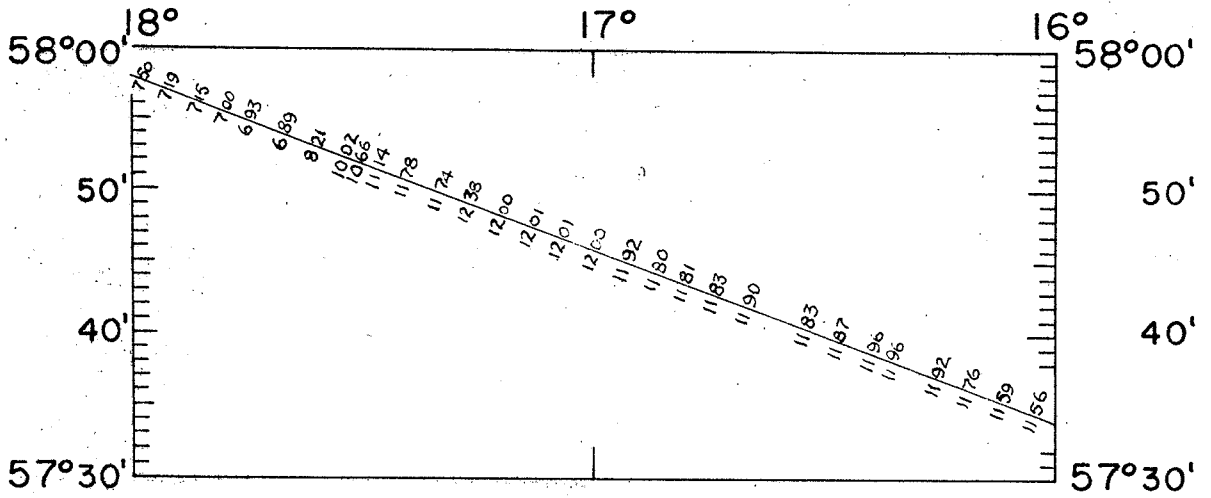
-57-
SECTION I



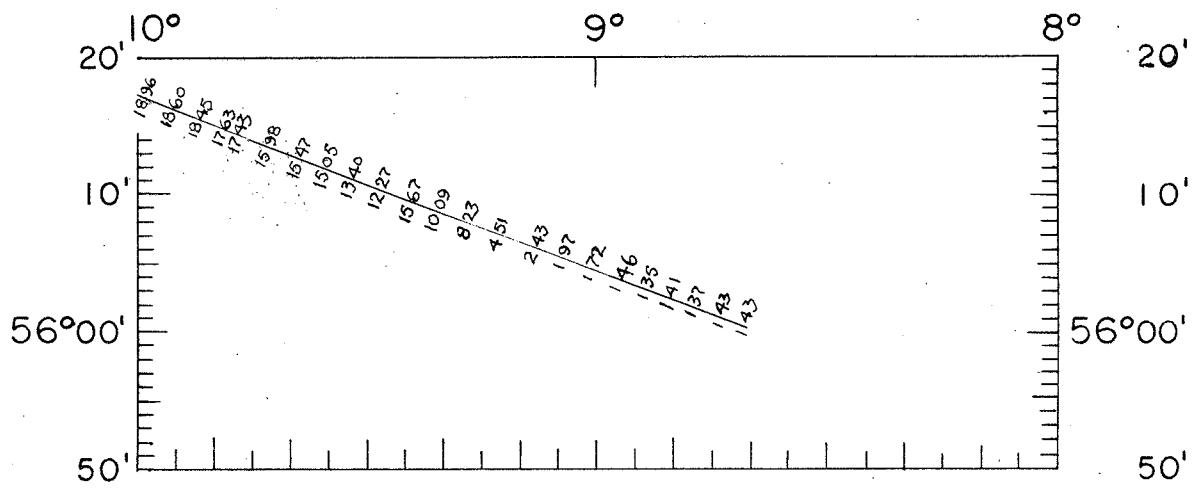
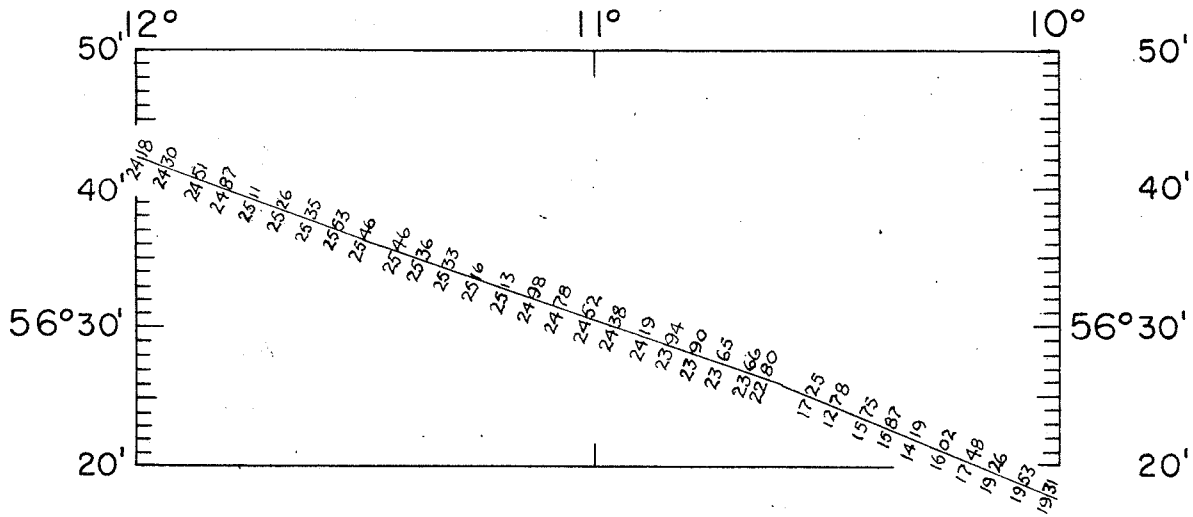
-58-
SECTION I



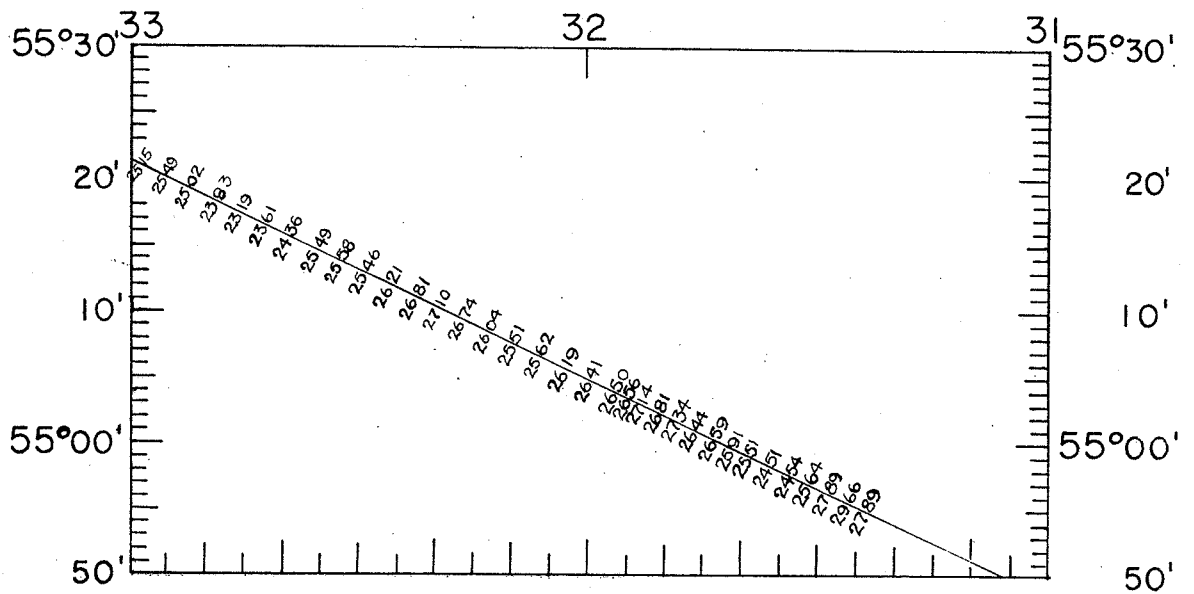
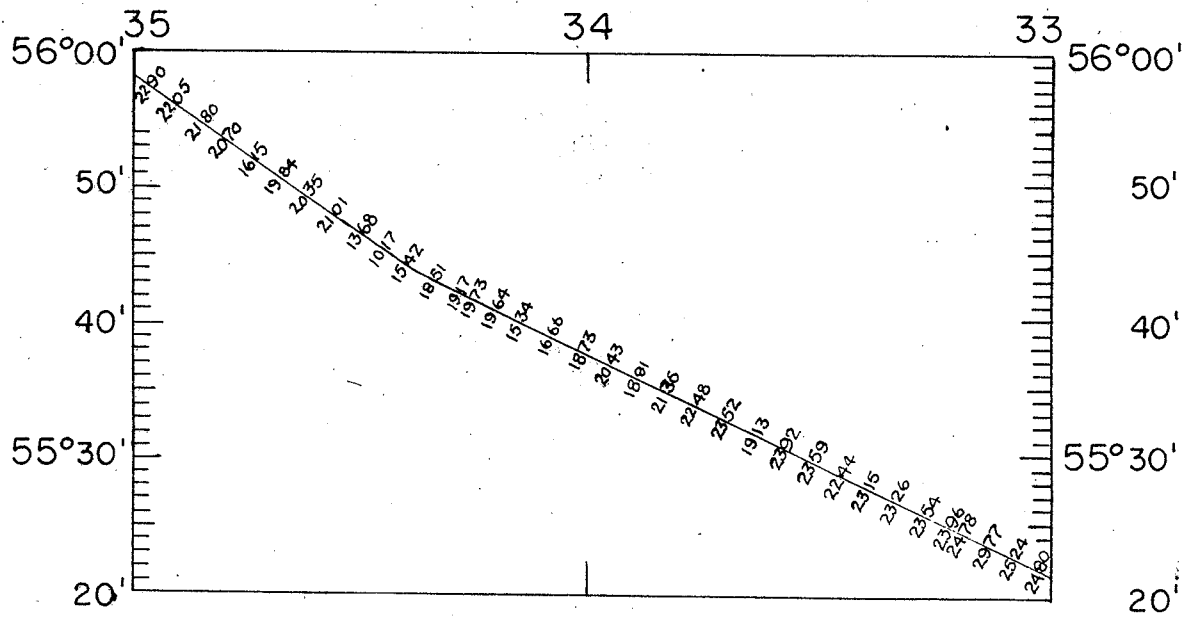
-59-
SECTION I



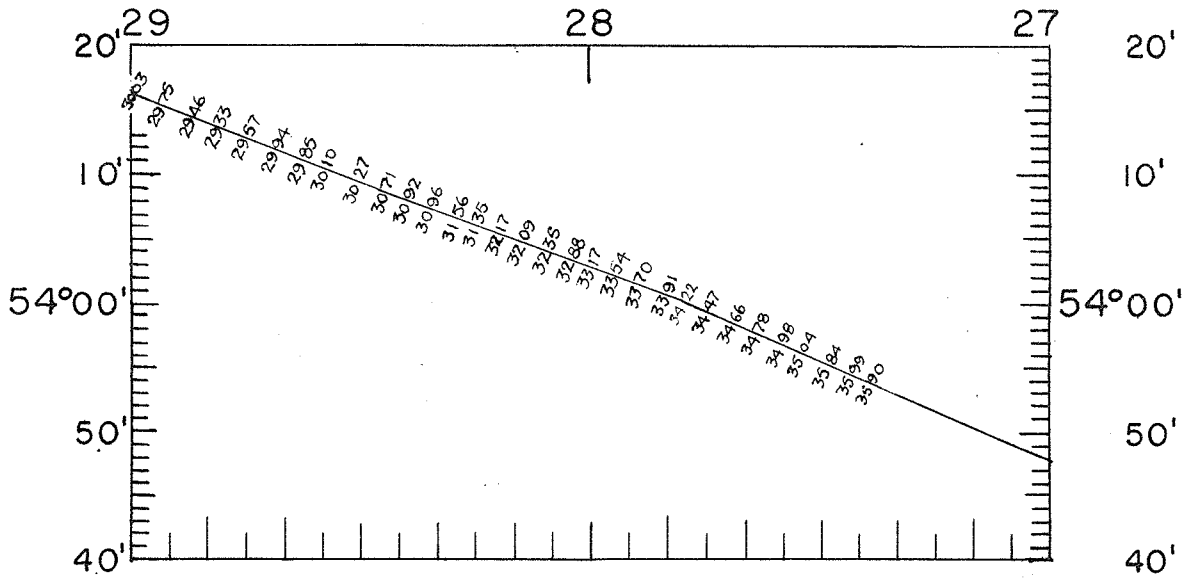
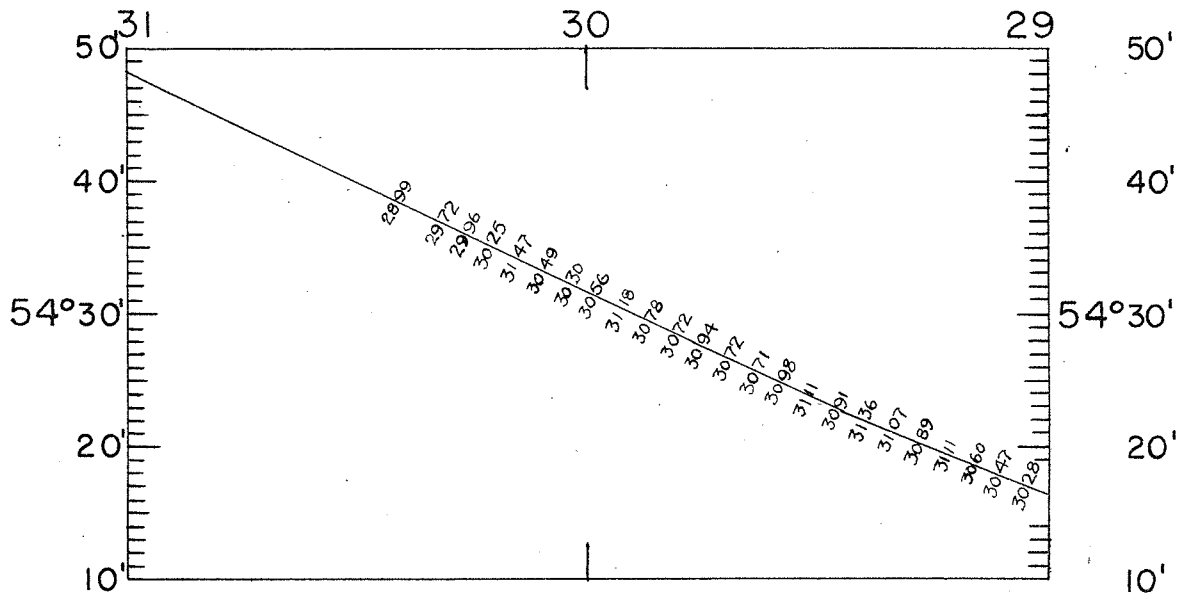
-60-
SECTION I



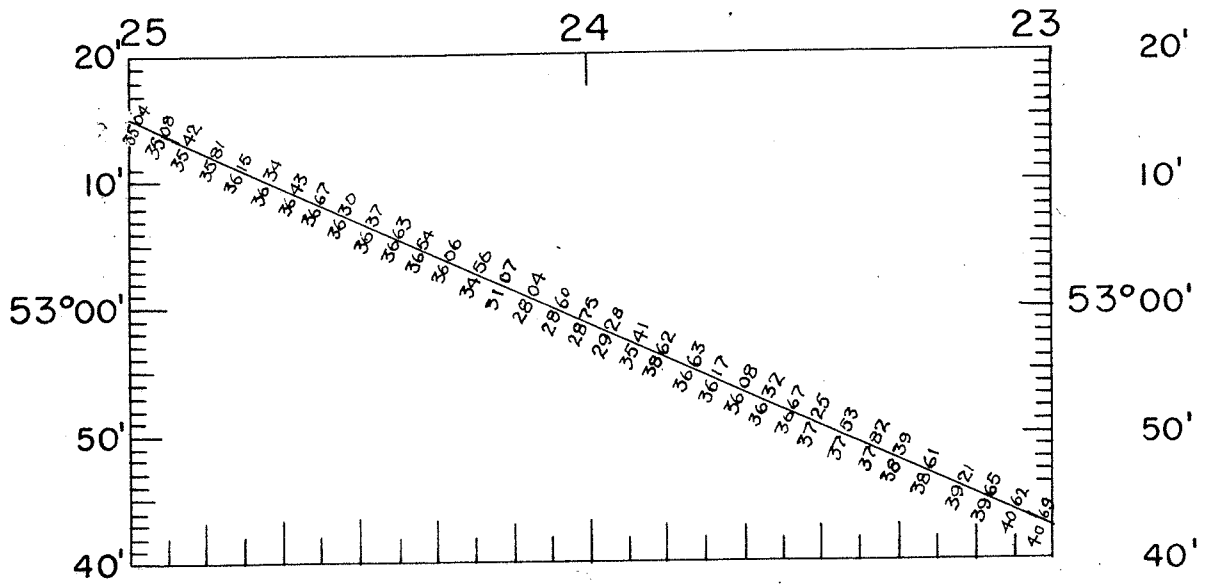
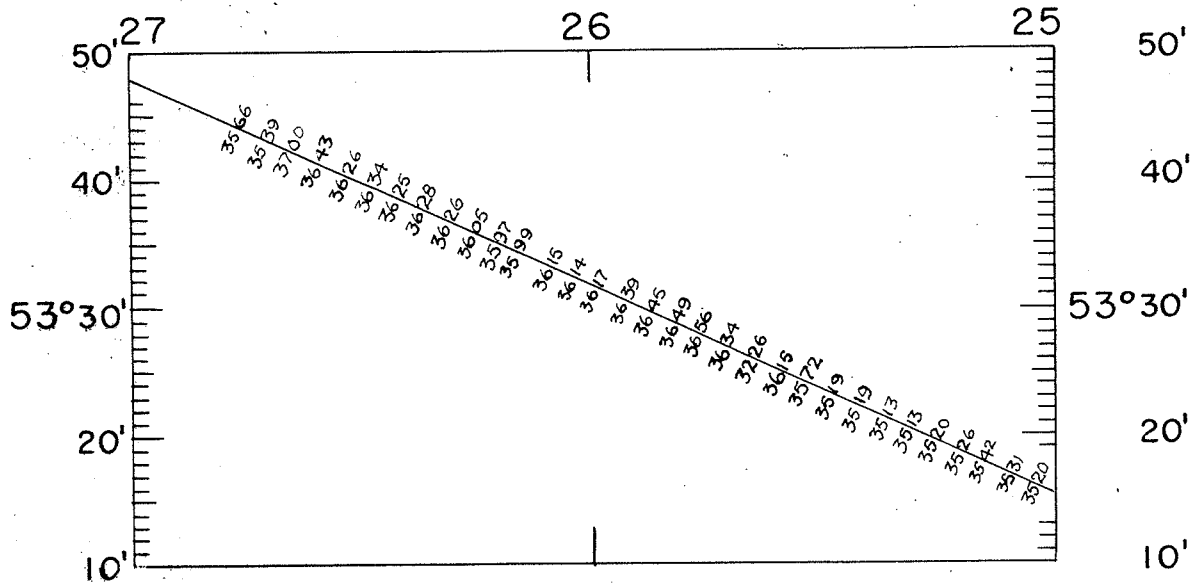
-61-
SECTION 2



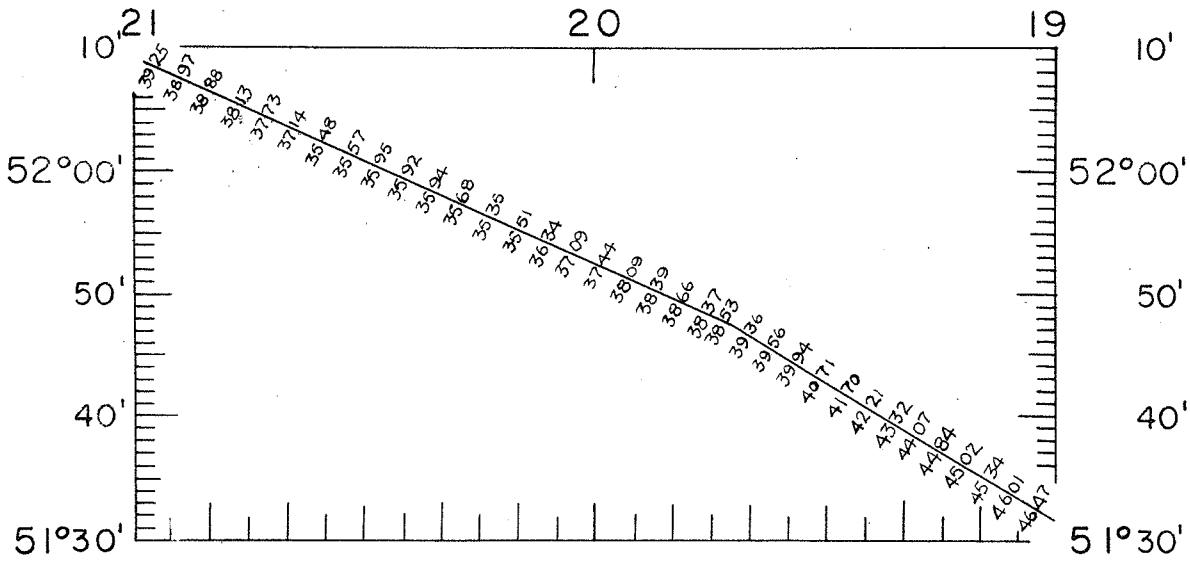
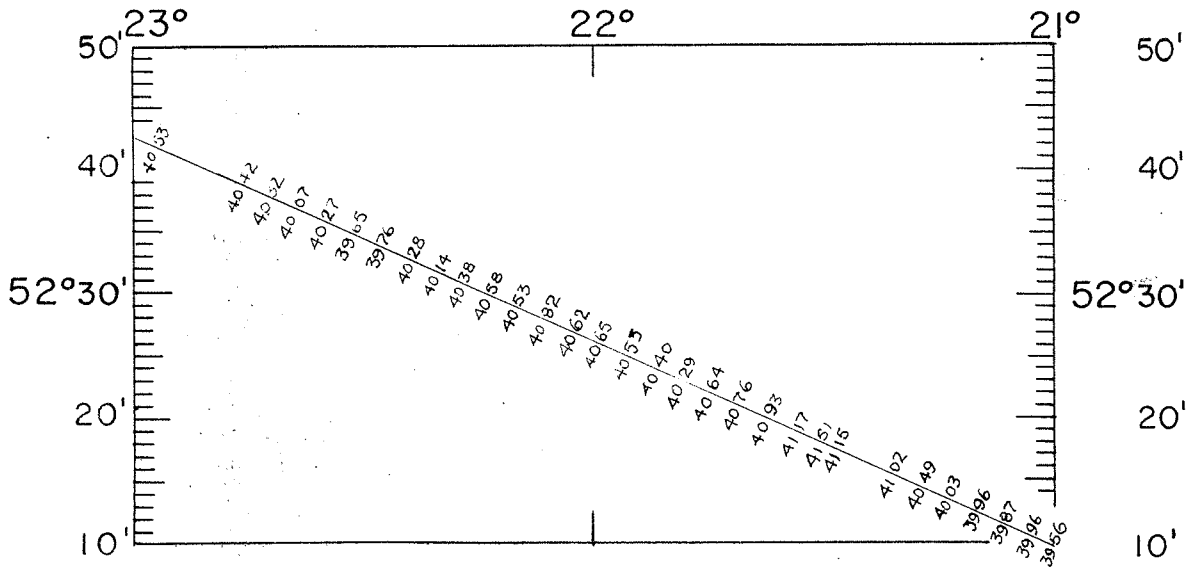
-62-
SECTION 2



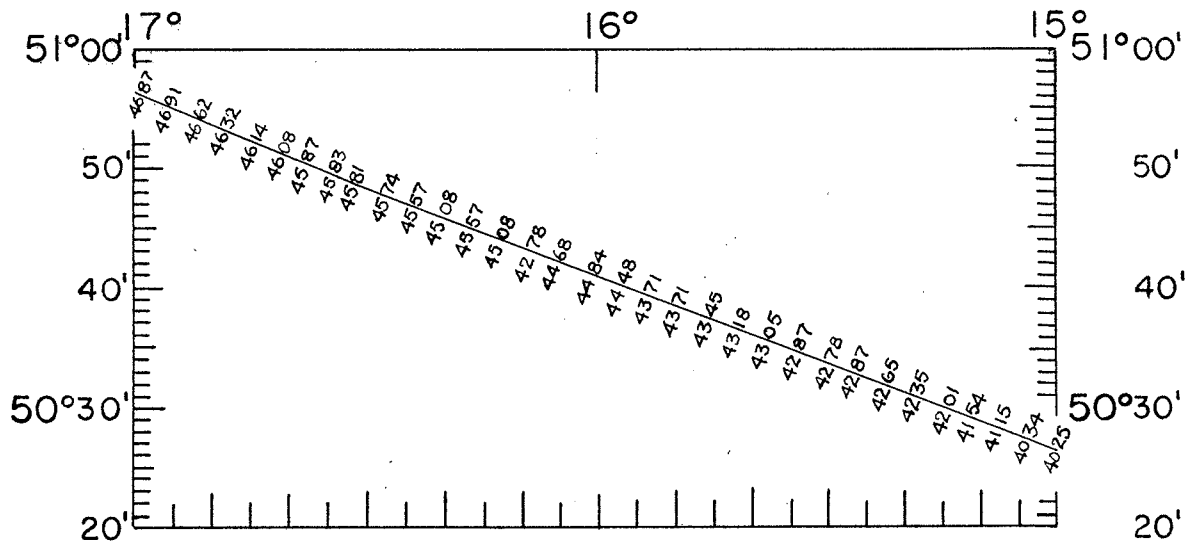
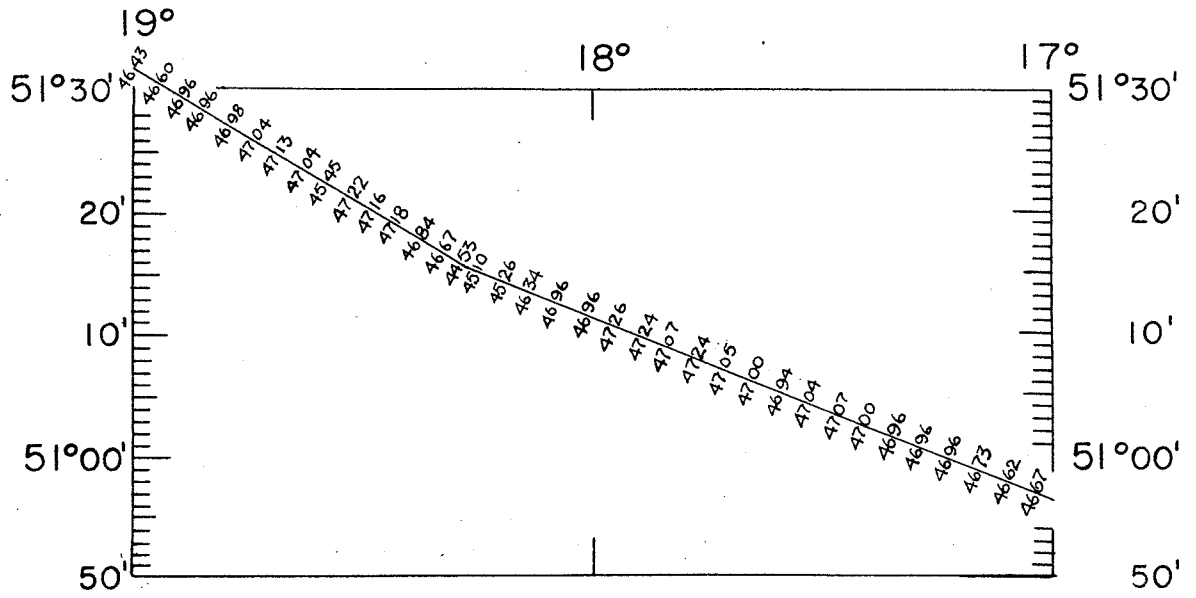
-63-
SECTION 2



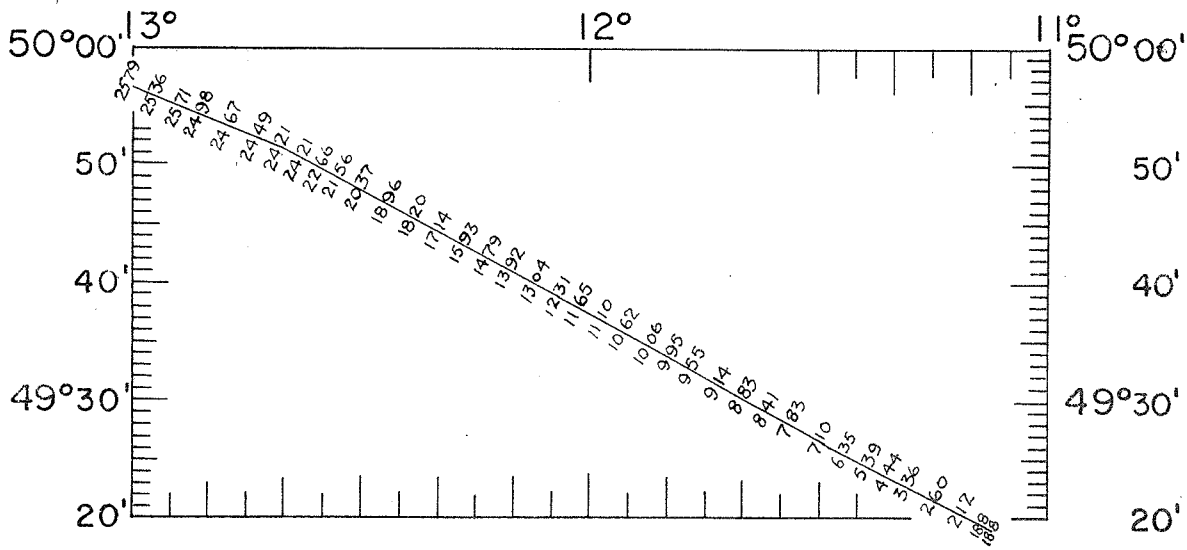
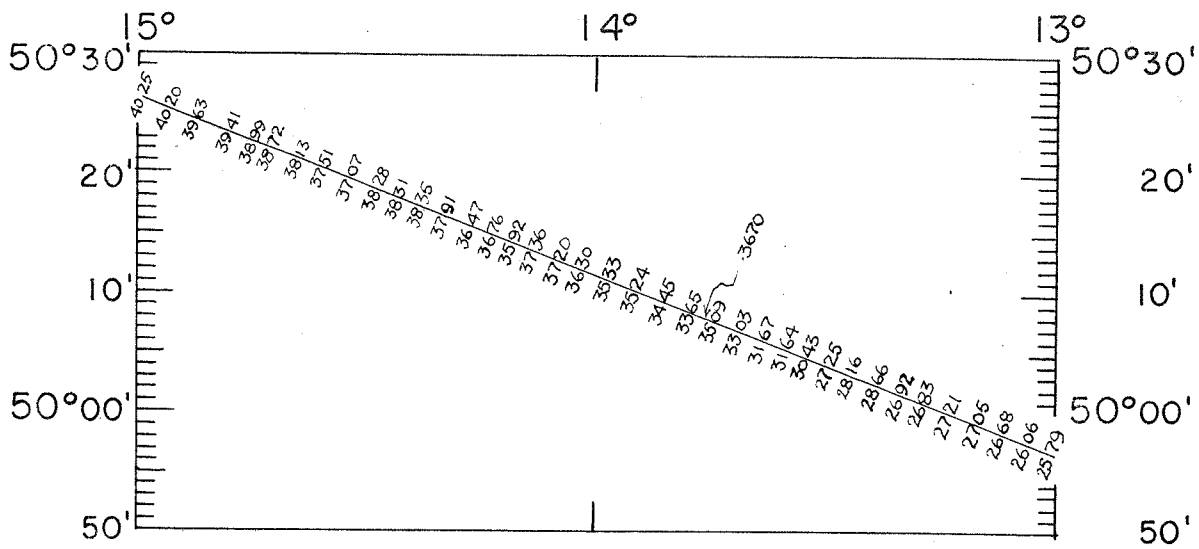
-64-
SECTION 2



-65-
SECTION 2



-66-
SECTION 2



-67-
SECTION 3

46°10'

33	92
35	97
36	06
35	24
34	23
34	58
34	36
36	26
36	32
36	48
33	74
35	81
35	70
34	47
26	19
25	00
37	22
37	67
37	76
37	82
39	41
38	92
43	20
39	98
40	14
40	34
37	42
37	97
37	71
36	94
39	63
39	81
39	57
39	72
41	04
42	26
42	19
39	43
39	45
39	39

46°30' 46°10'

24°
23°
22°

30	49
29	96
26	85
27	60
27	95
30	14
29	42
28	02
31	13
31	29
30	98
30	39
29	39
29	10
30	50
29	75
28	14
32	64
32	72
32	28
32	00
30	45
32	64
32	52
29	39
29	94
33	01
34	02
32	68
33	63
33	80
34	78
34	36
34	58
34	00
26	68
32	31
32	35
33	03
32	72
32	35

46°30' 46°10'

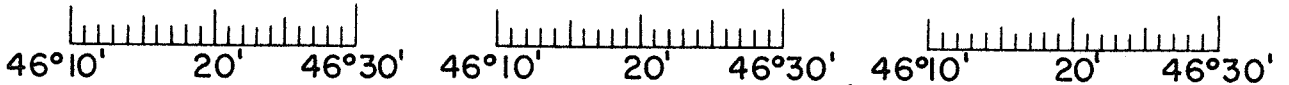
26°
25°
24°

30	14
29	42
28	02
31	13
31	29
30	98
30	39
29	39
29	10
30	50
29	75
28	14
32	64
32	72
32	28
32	00
30	45
32	64
32	52
29	39
29	94
33	01
34	02
32	68
33	63
33	80
34	78
34	36
34	58
34	00
26	68
32	31
32	35
33	03
32	72
32	35

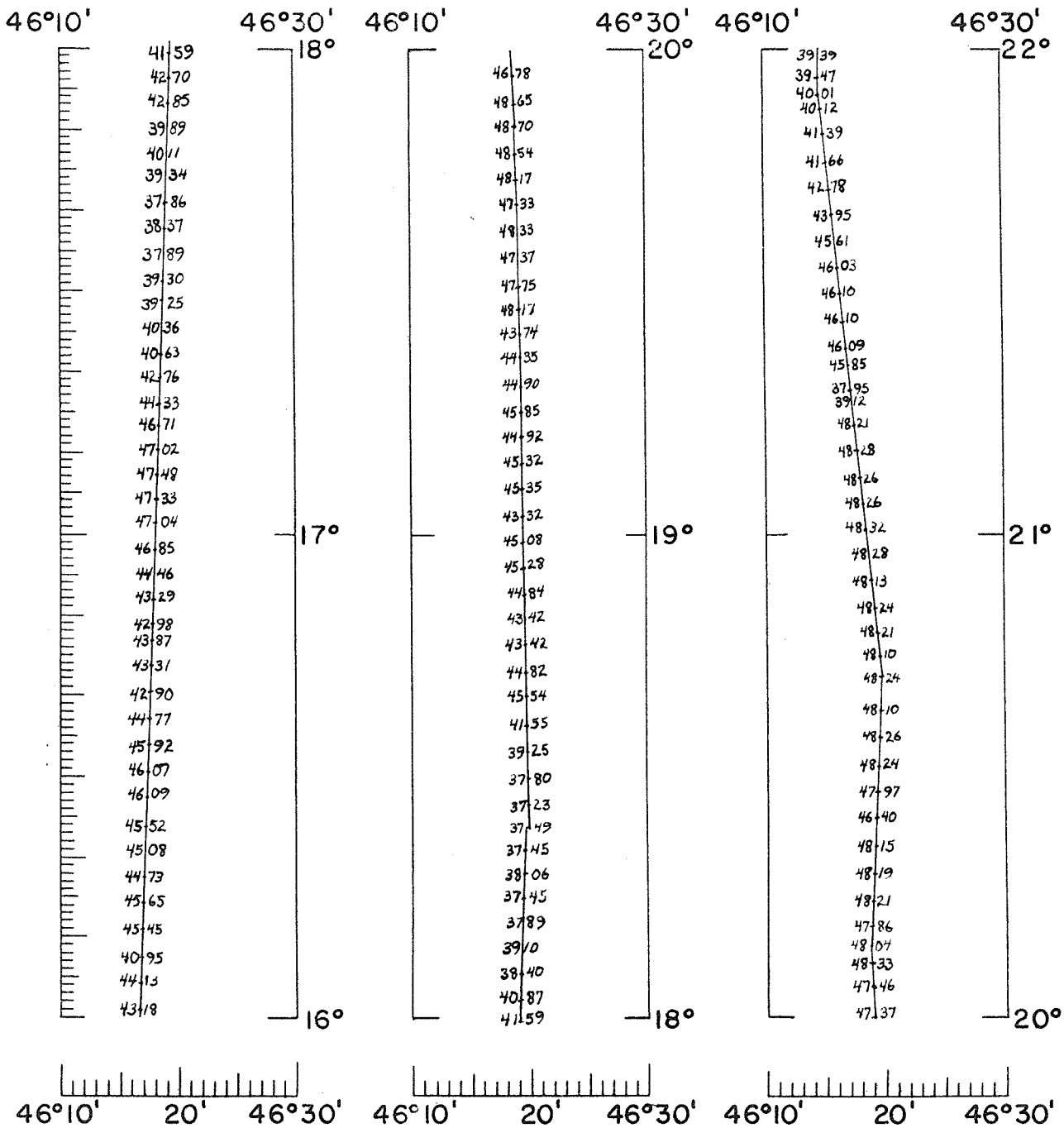
46°30'

28°
27°
26°

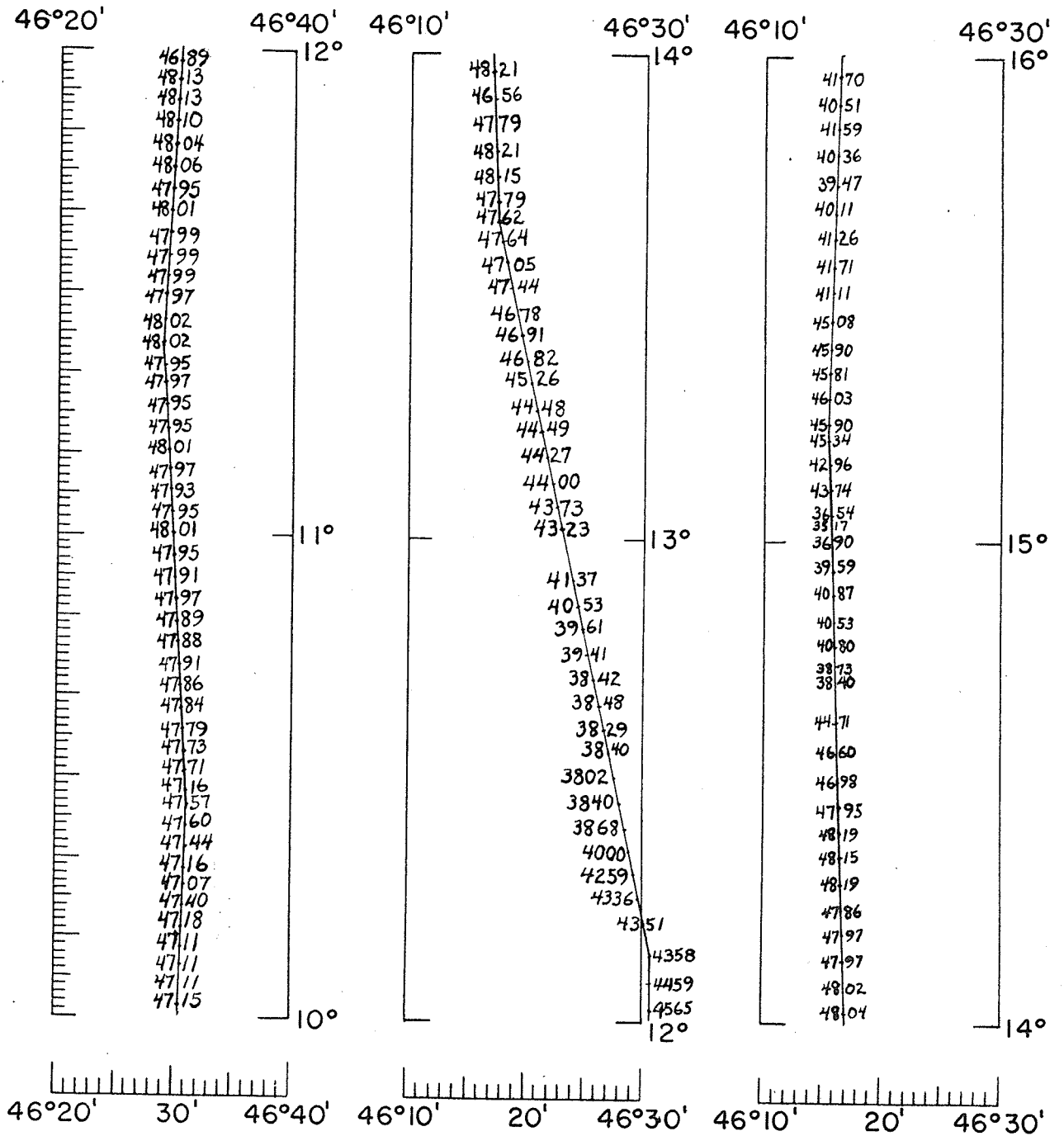
21	95
26	30
15	82
20	45
25	66
25	16
21	32
27	96
28	22
19	82
21	58
18	78
25	16
27	91
27	94
28	18
27	45
29	88
30	81
31	05
29	88
31	95
29	37
29	24
29	13
29	75



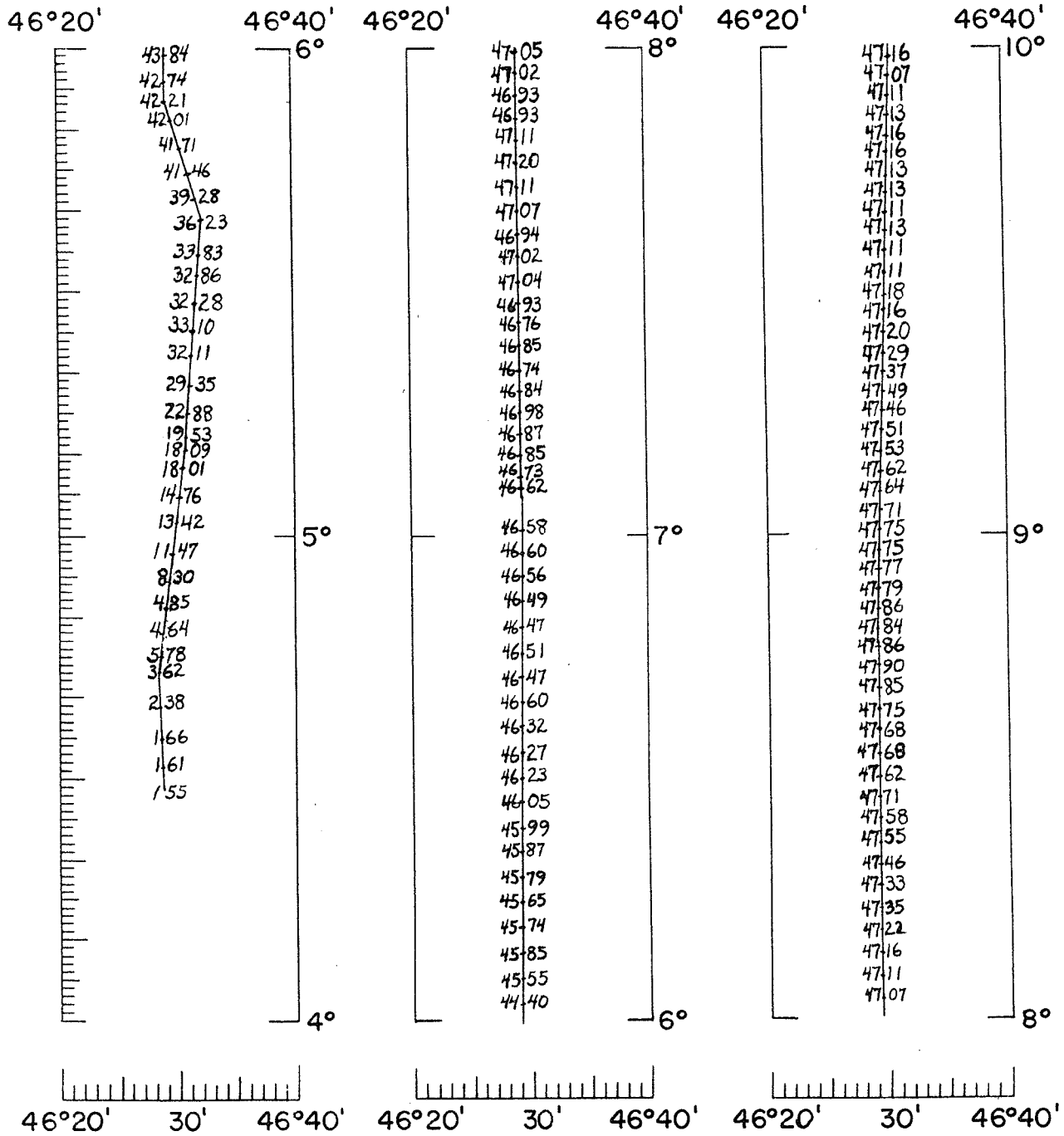
-68-
SECTION 3



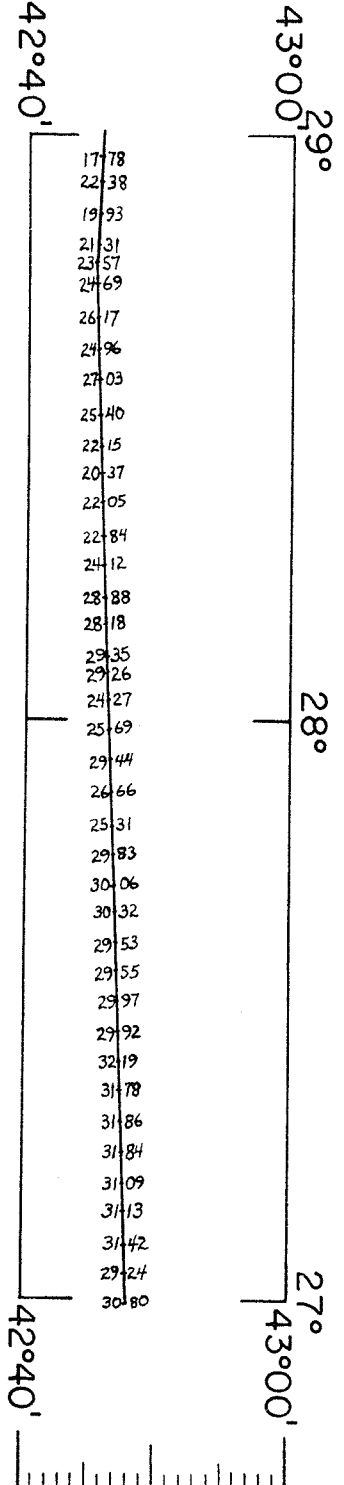
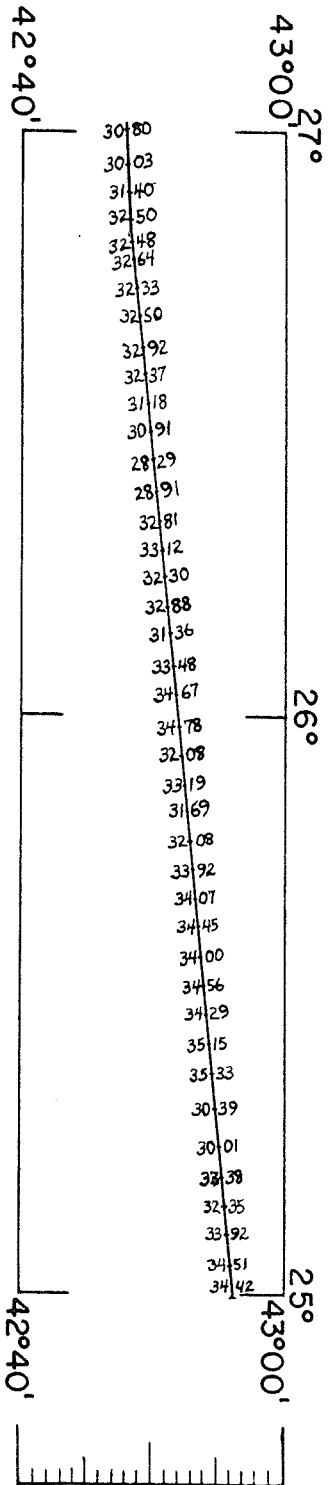
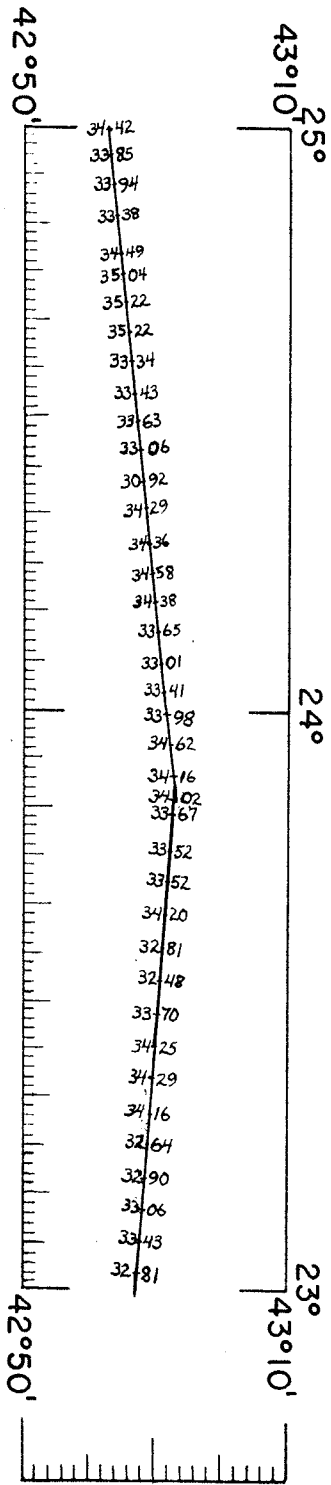
-69-
SECTION 3



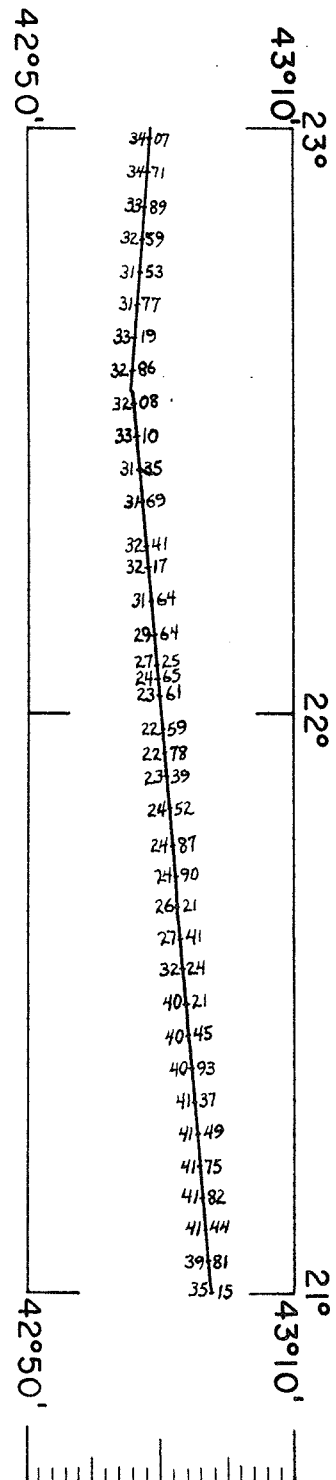
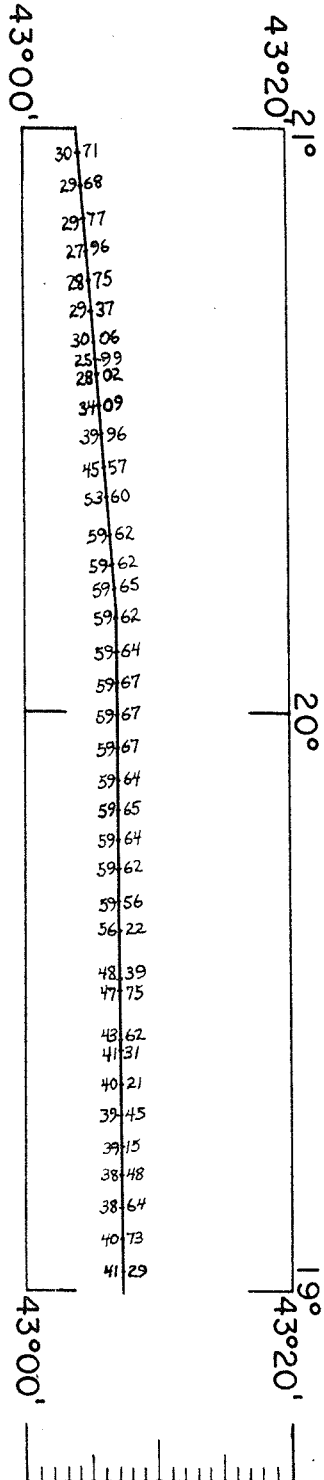
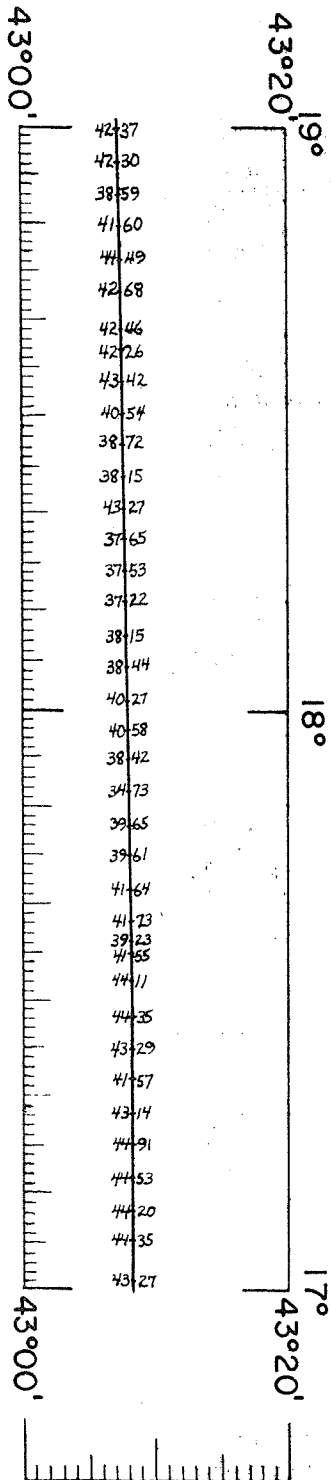
-70-
SECTION 3



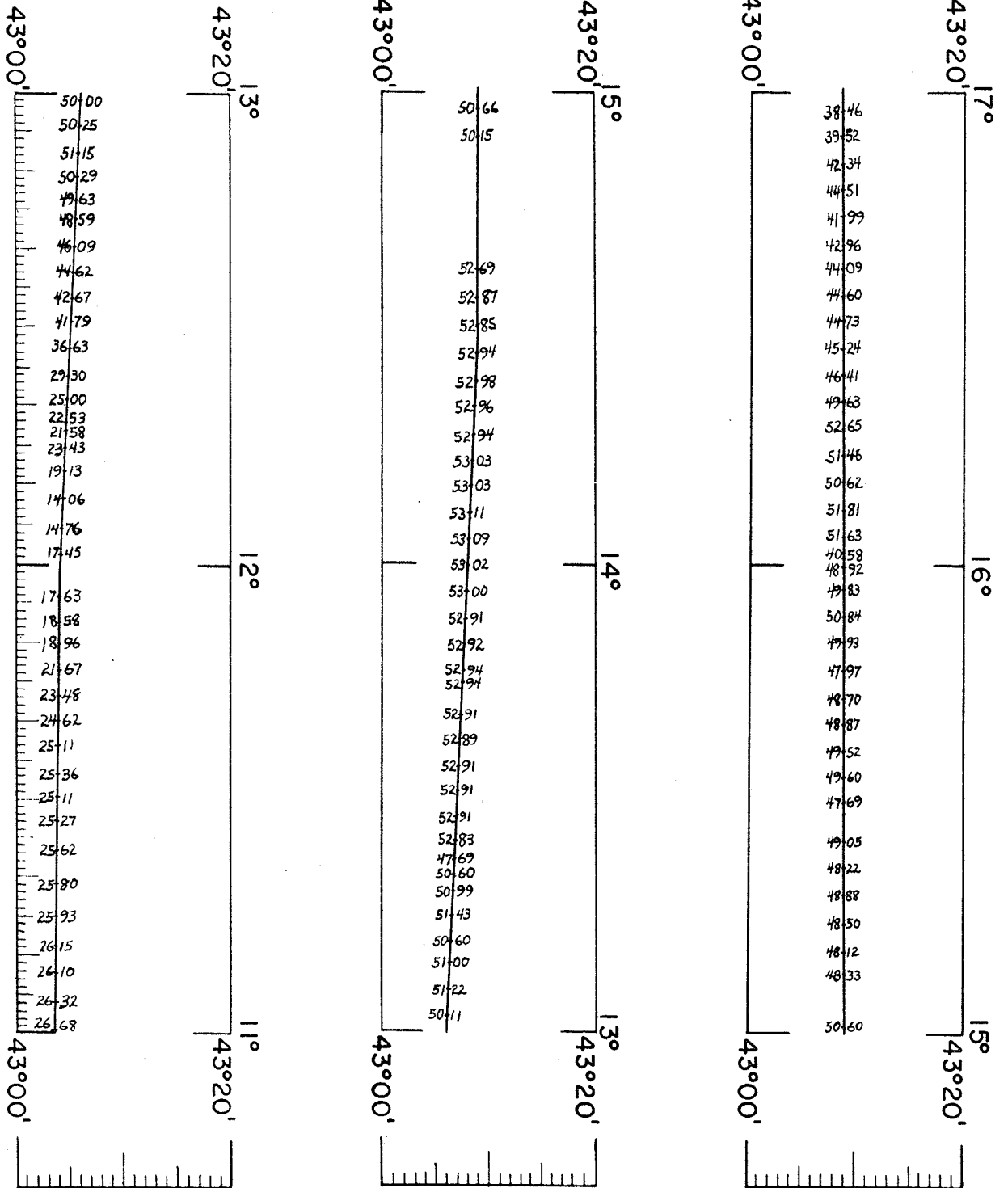
-71-
SECTION 4



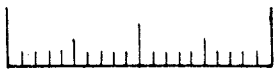
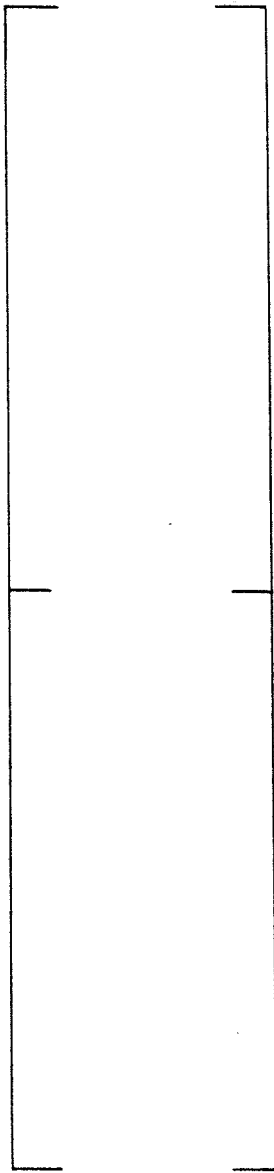
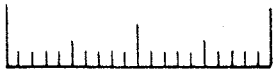
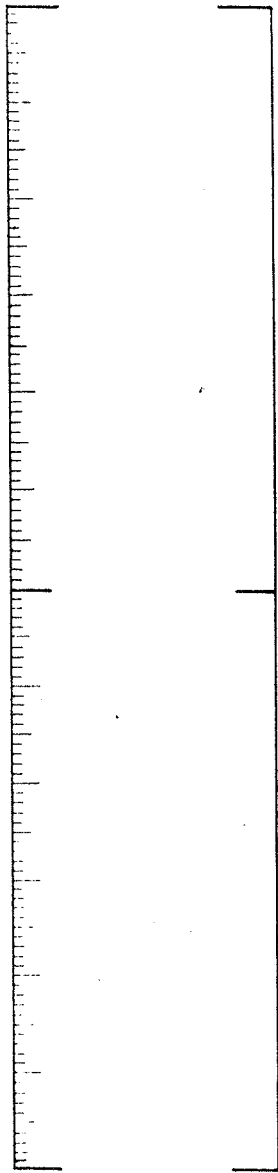
-72-
SECTION 4



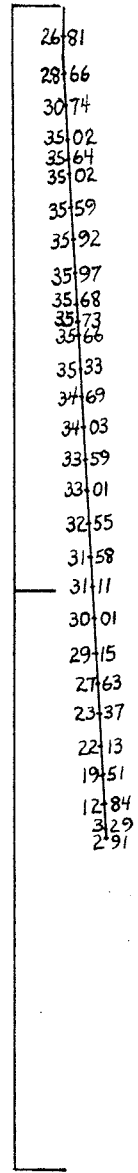
-73-
SECTION 4



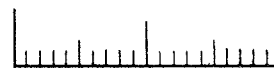
-74-
SECTION 4



43°00'

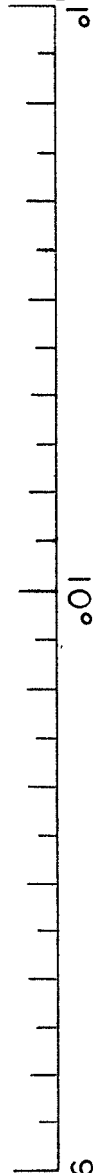


43°00'



26.81
28.66
30.74
35.02
35.64
35.02
35.59
35.92
35.97
35.68
35.73
35.66
35.33
34.69
34.03
33.59
33.01
32.55
31.58
31.11
30.01
29.15
27.63
23.37
22.13
19.51
12.84
3.29
2.91

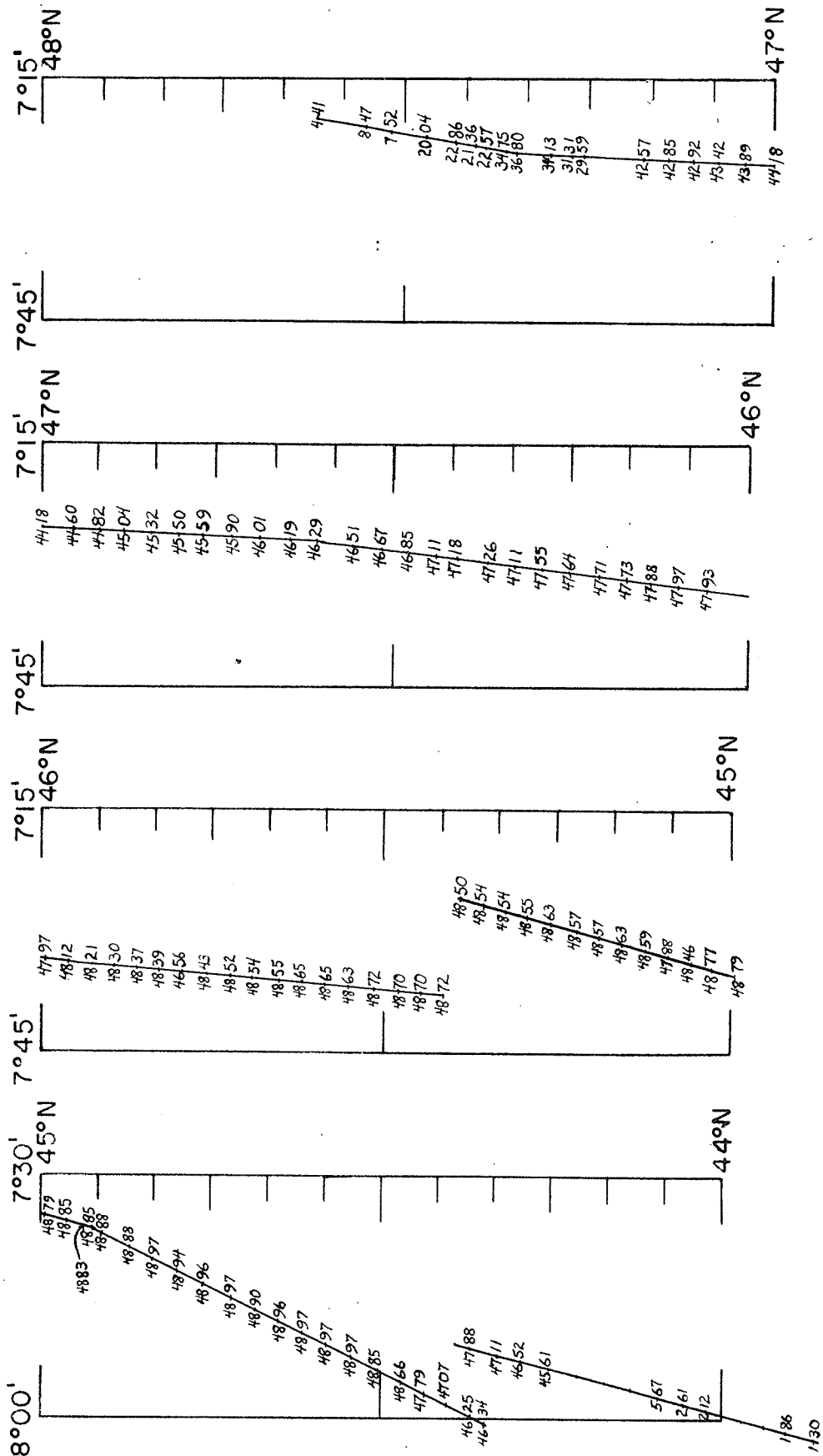
43°20' 11°



43°20' 9°



SECTION 5



Errata

R.R.S. DISCOVERY II Report

W.H.O.I. Reference No. 58-30

The following changes should be made for ATLANTIS

Station 5564 (Cruise 233) found on page 71.

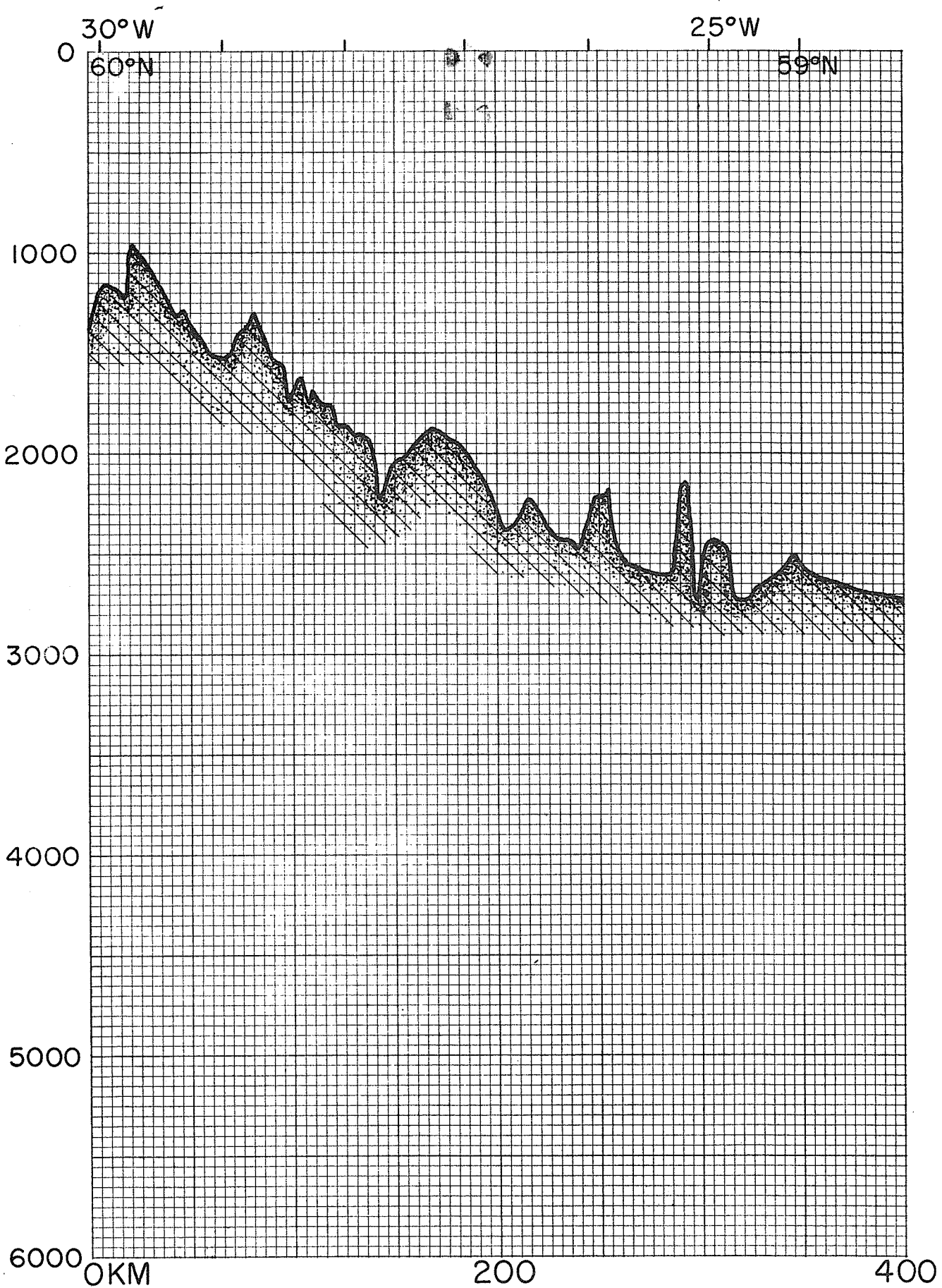
Longitude position should be 64° 30'N.

Depth should be 2979 m.

Bottle depths of second cast should be -- 1345*
1445
1542
1641*
1739
1936
2134*
2333
2532*
2733
2934*

SECTION I

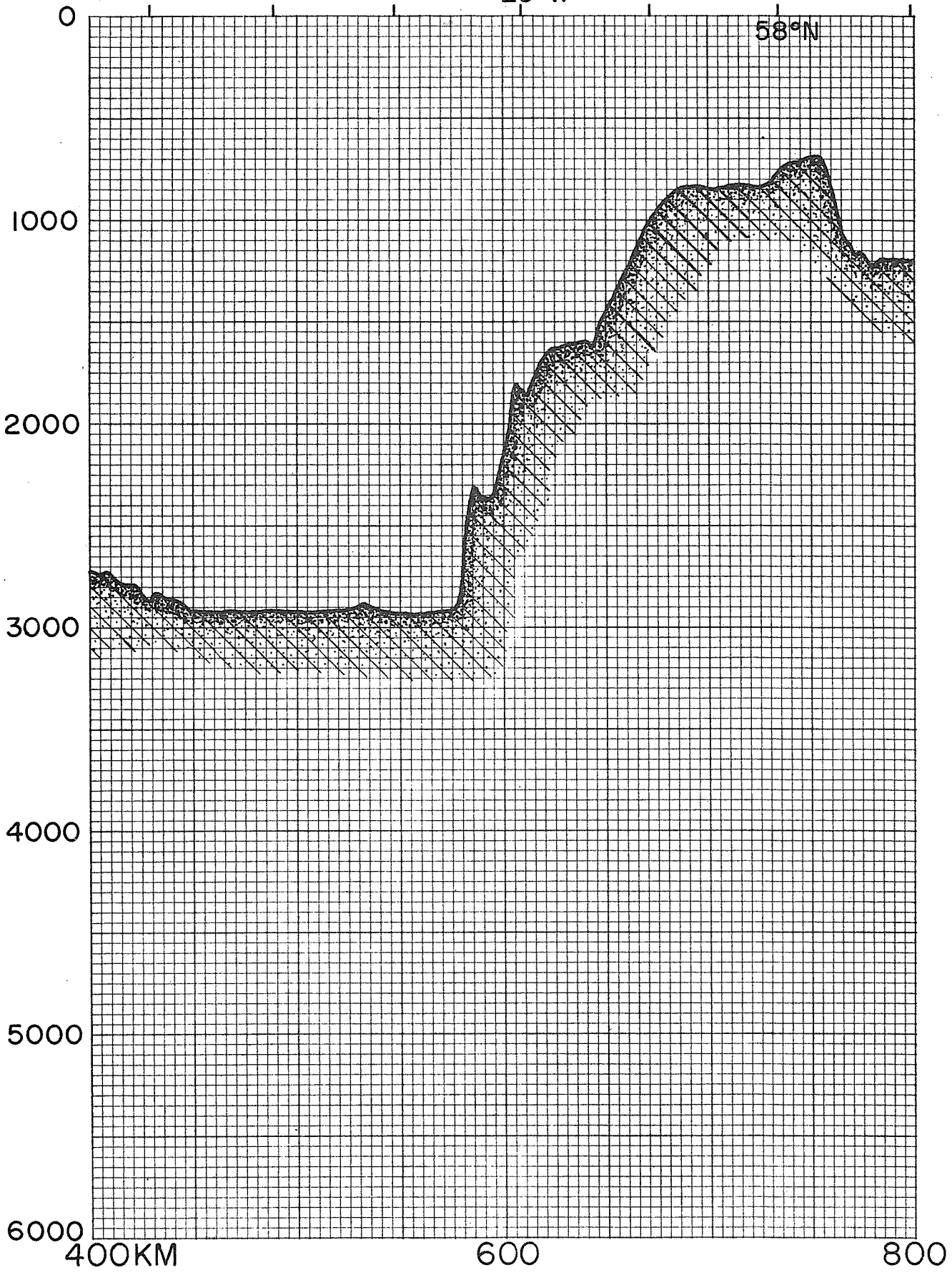
1-1



SECTION I

20°W

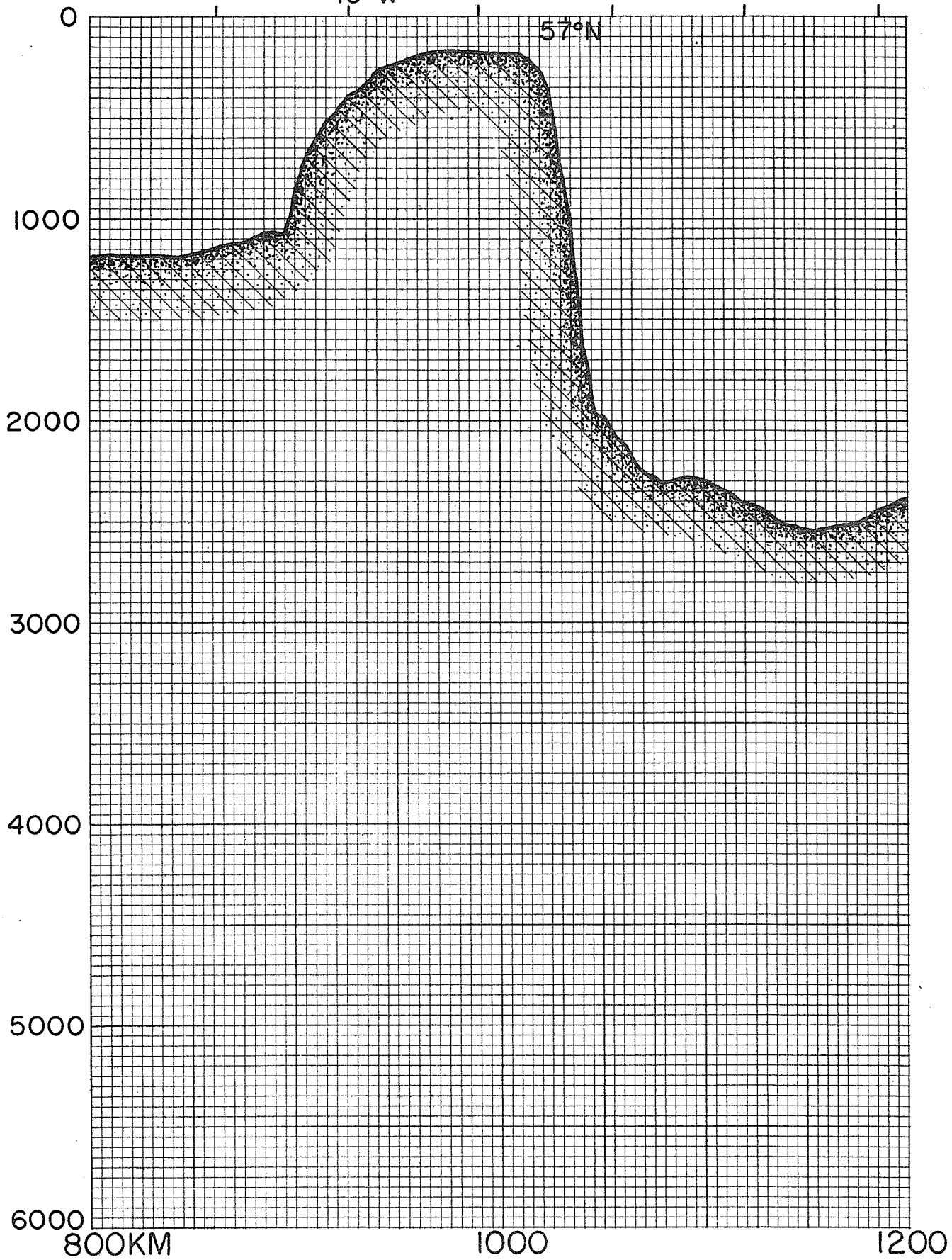
58°N



SECTION I

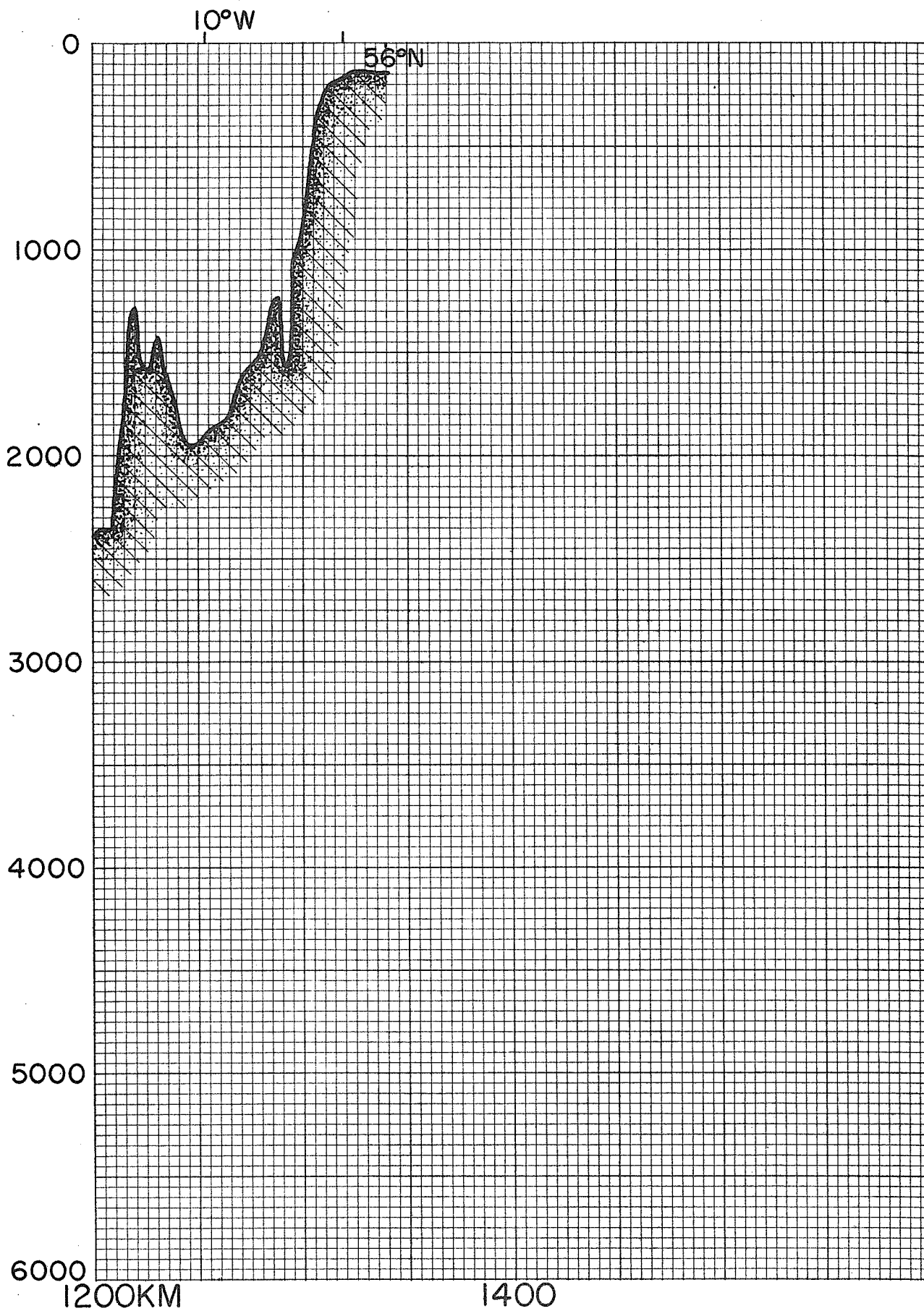
15°W

57°N



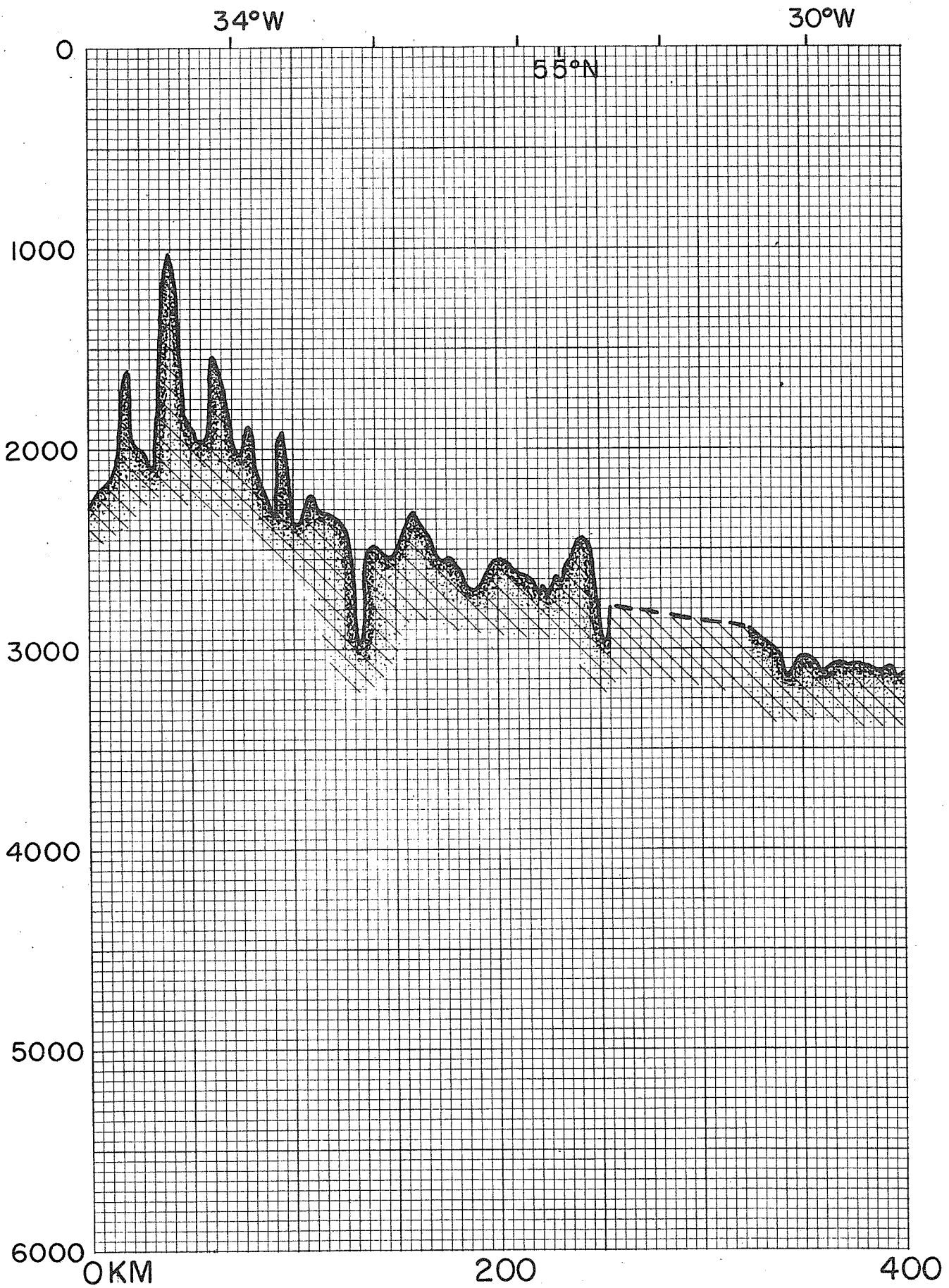
SECTION I

1-4



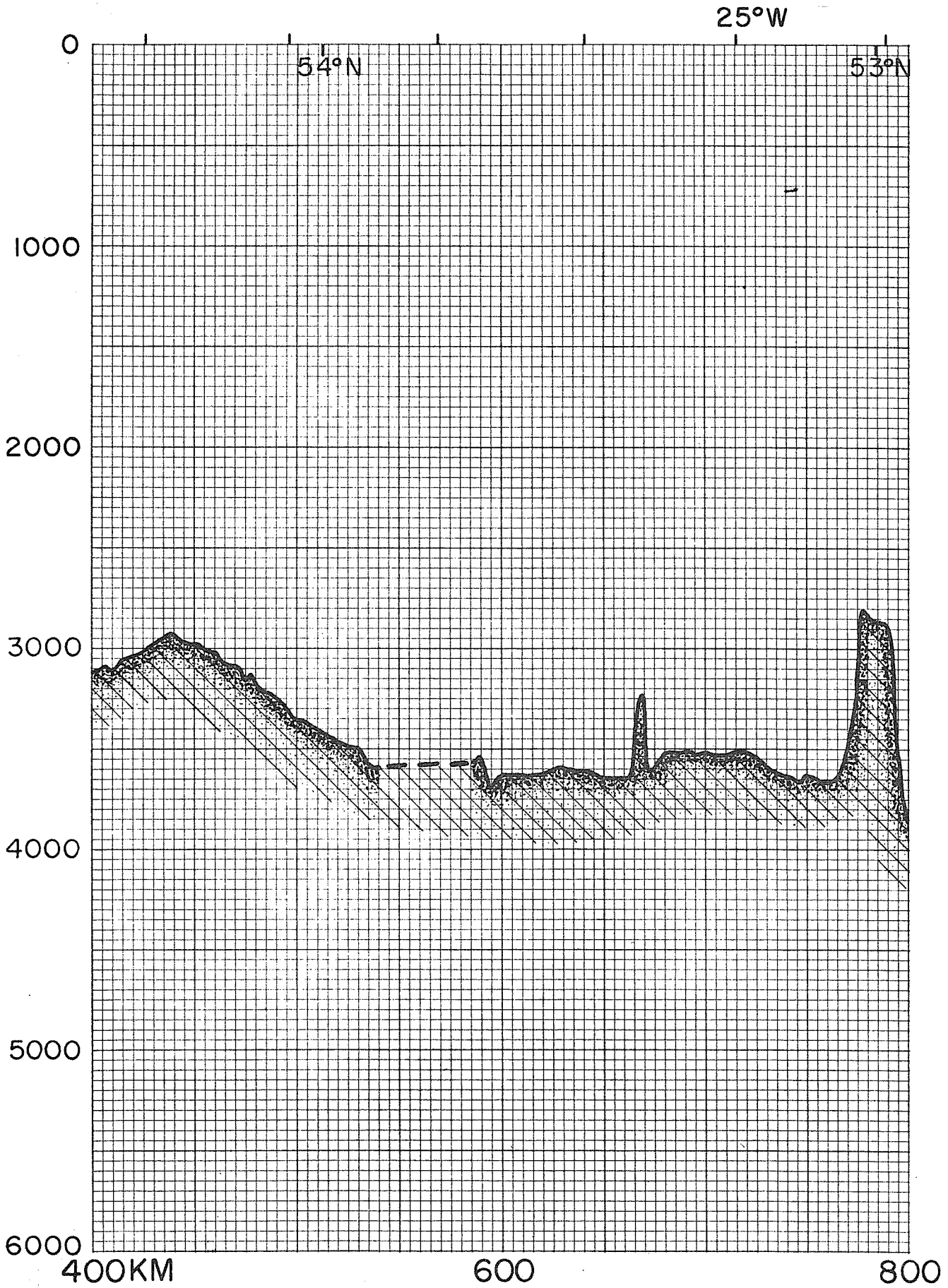
SECTION 2

2-1



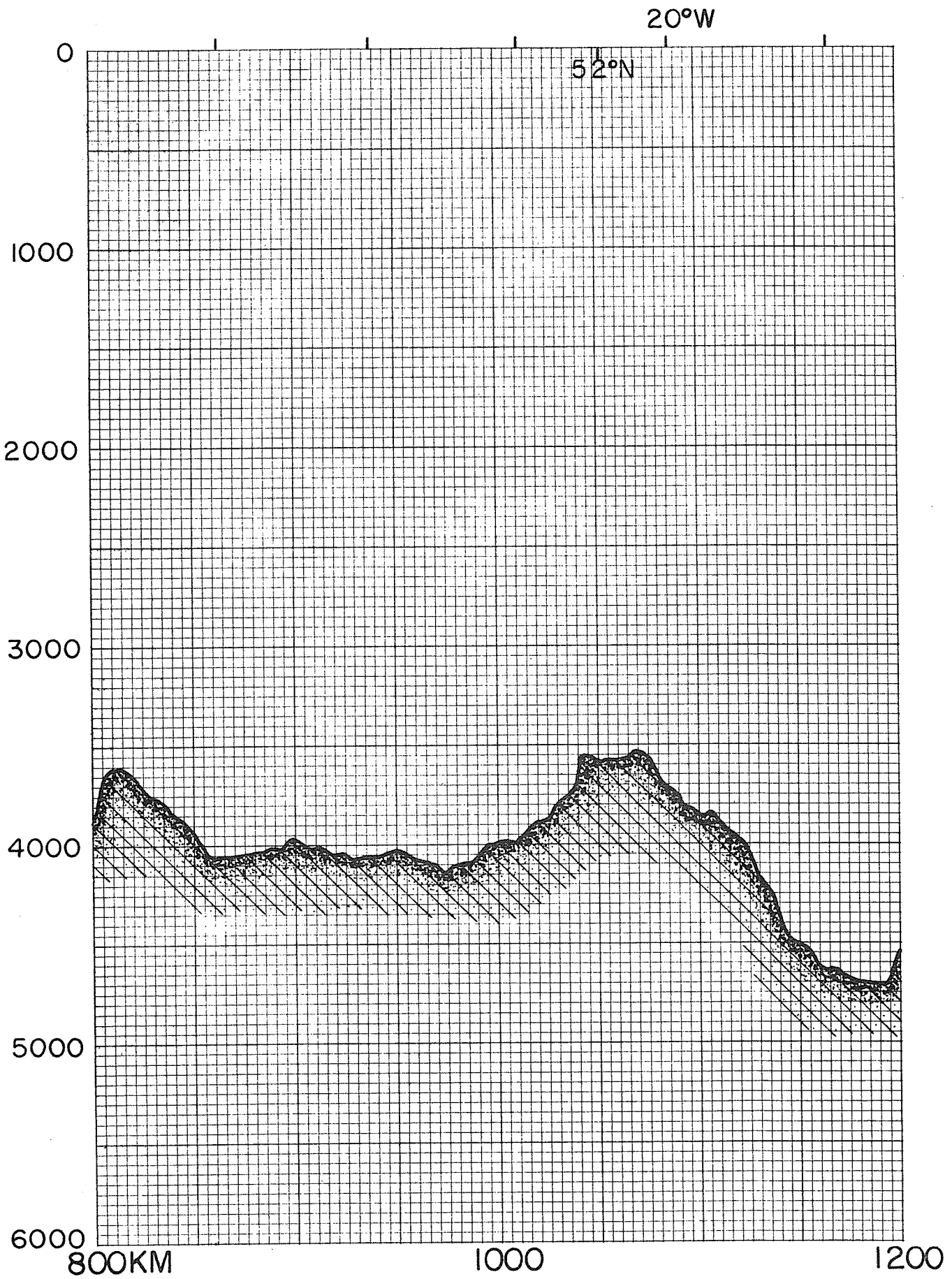
SECTION 2

2-2



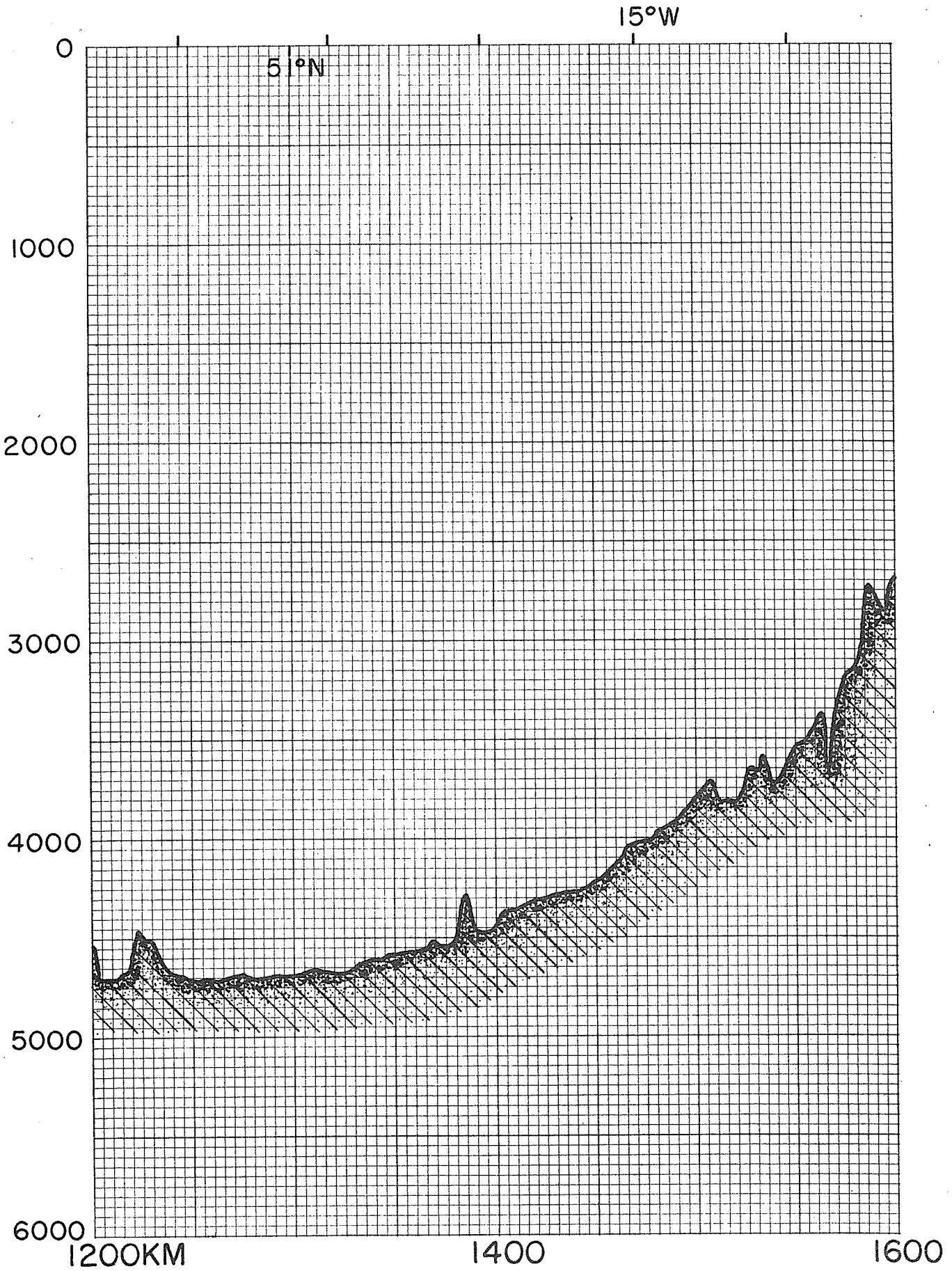
SECTION 2

2-3



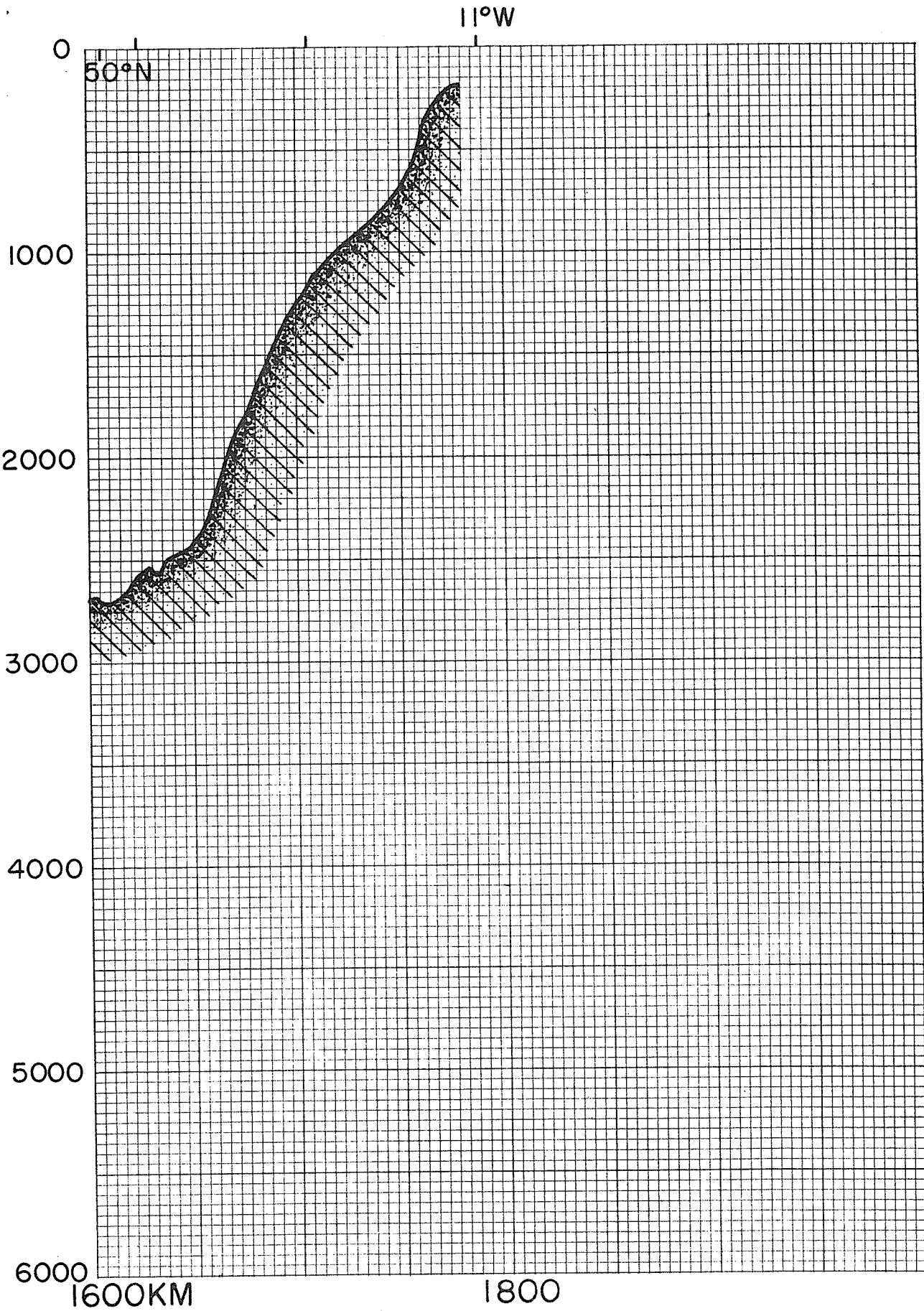
SECTION 2

2-4



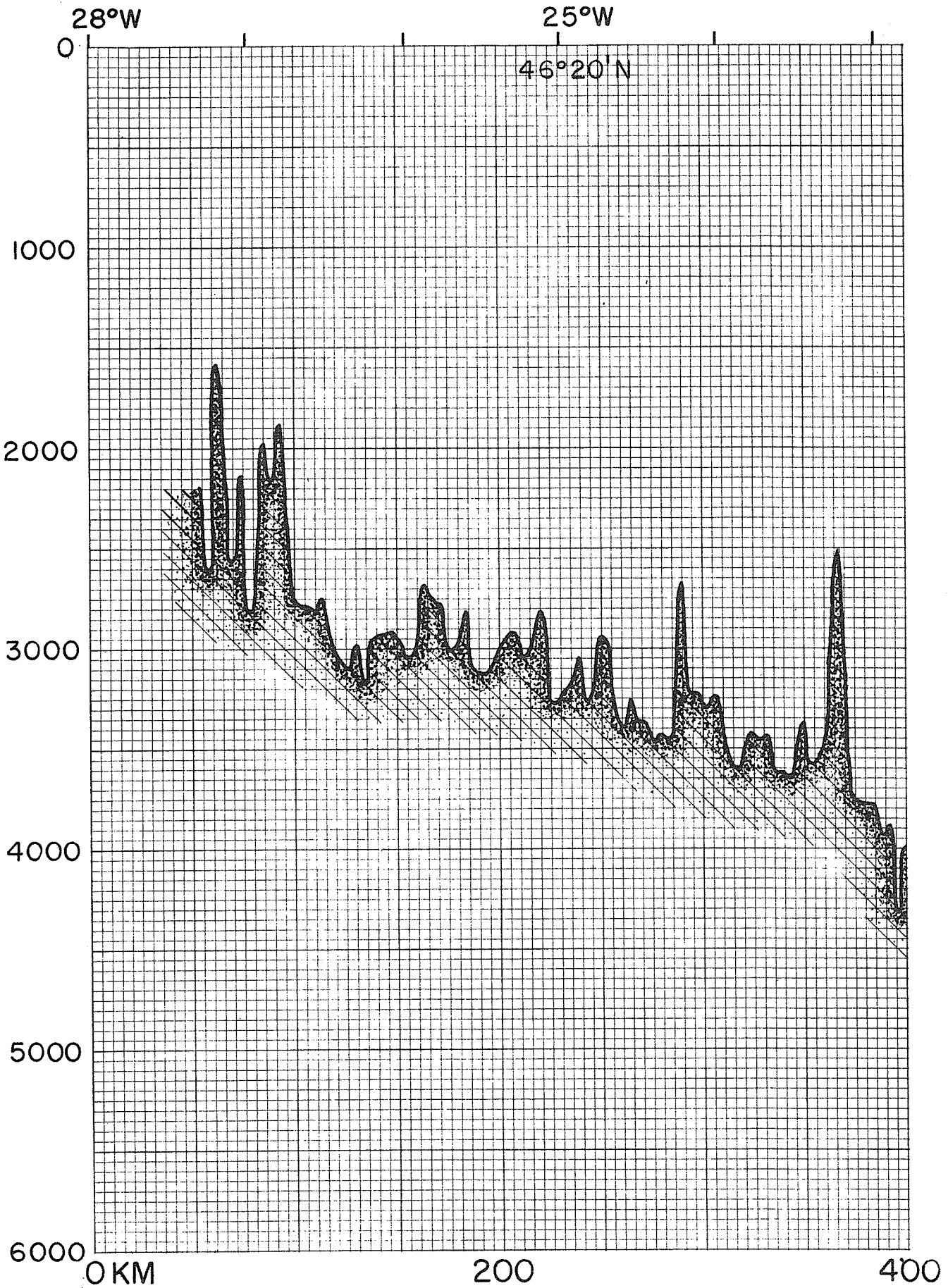
SECTION 2

2-5



SECTION 3

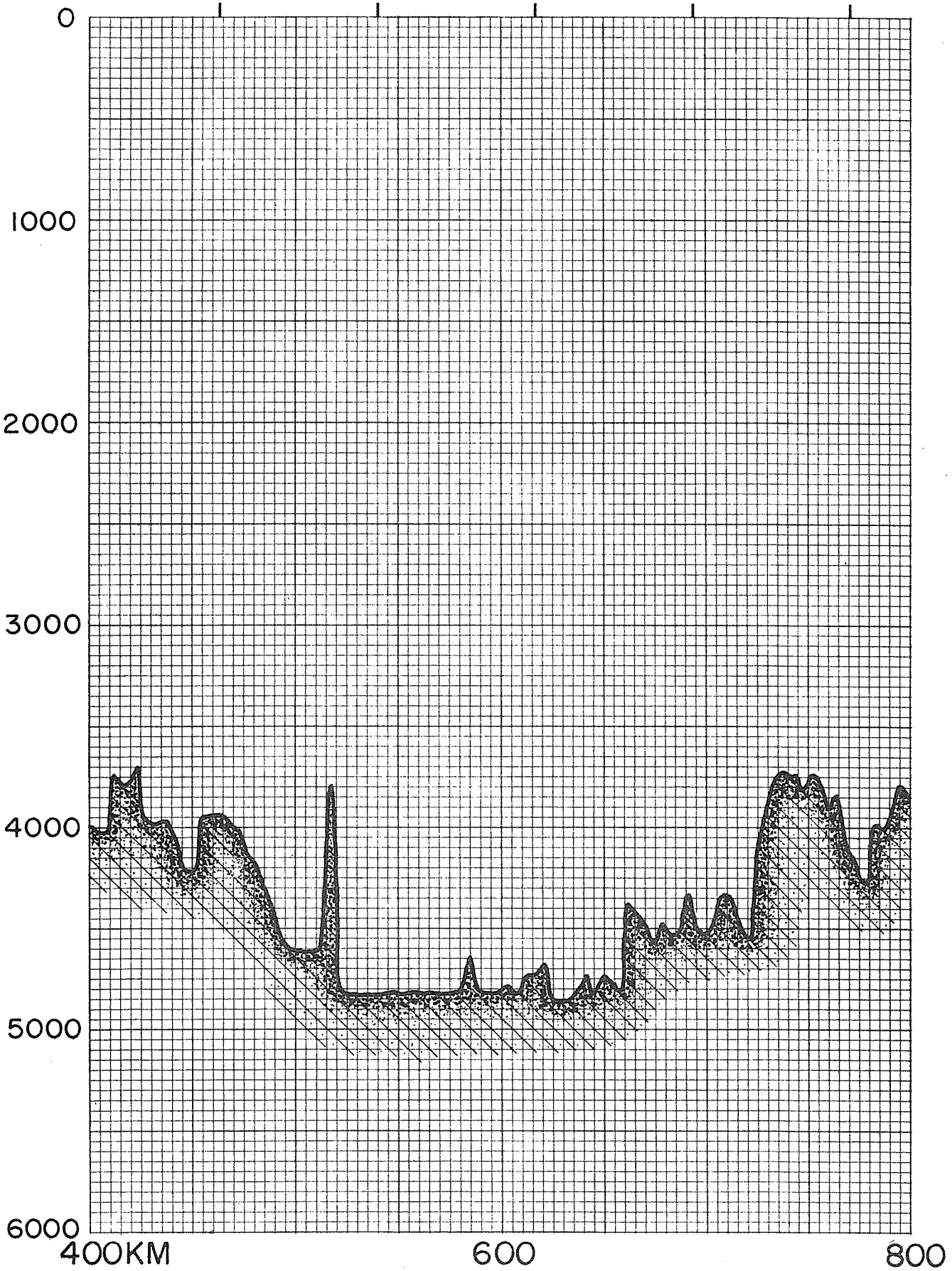
3-1



SECTION 3

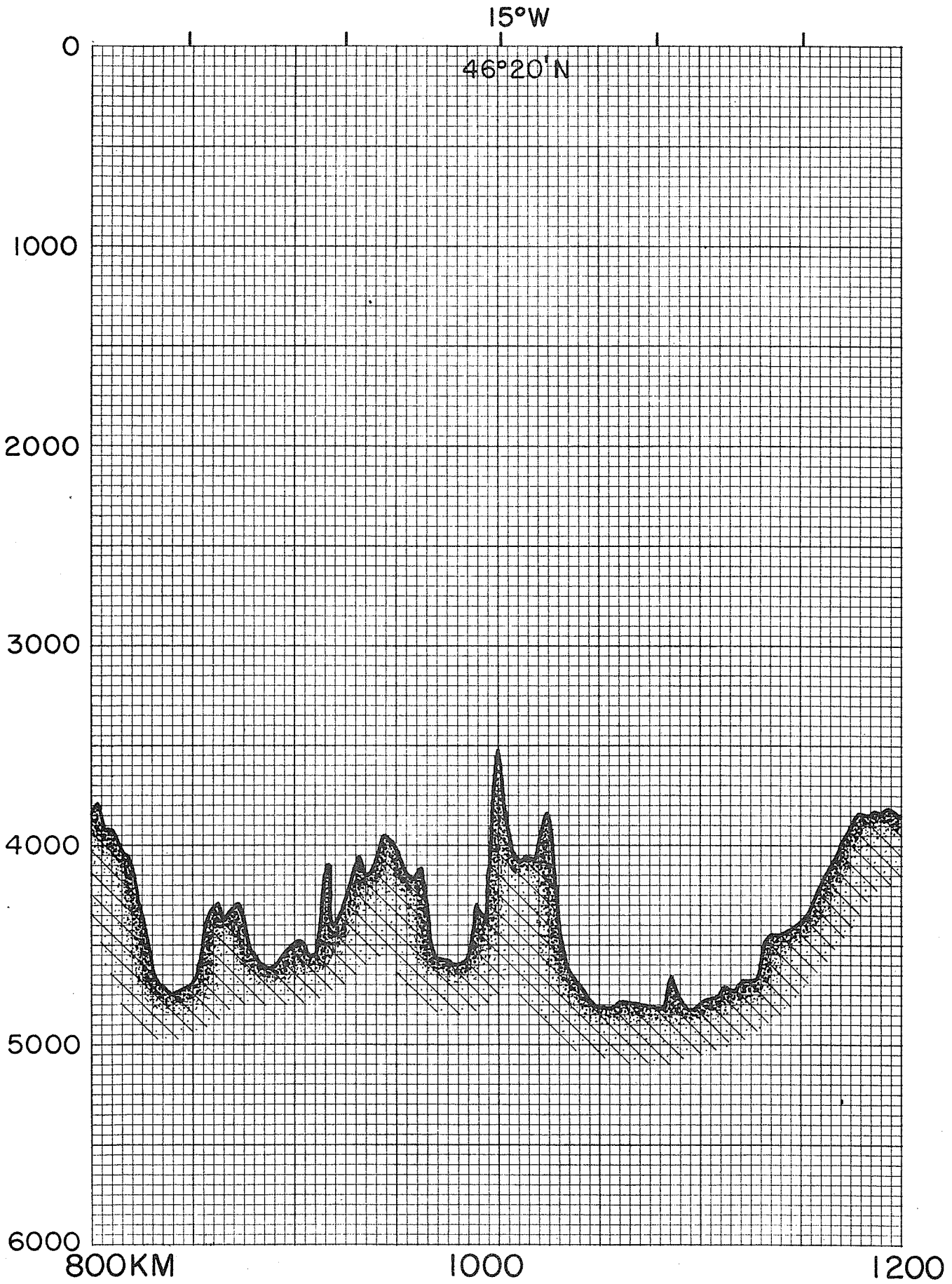
3-2

20°W



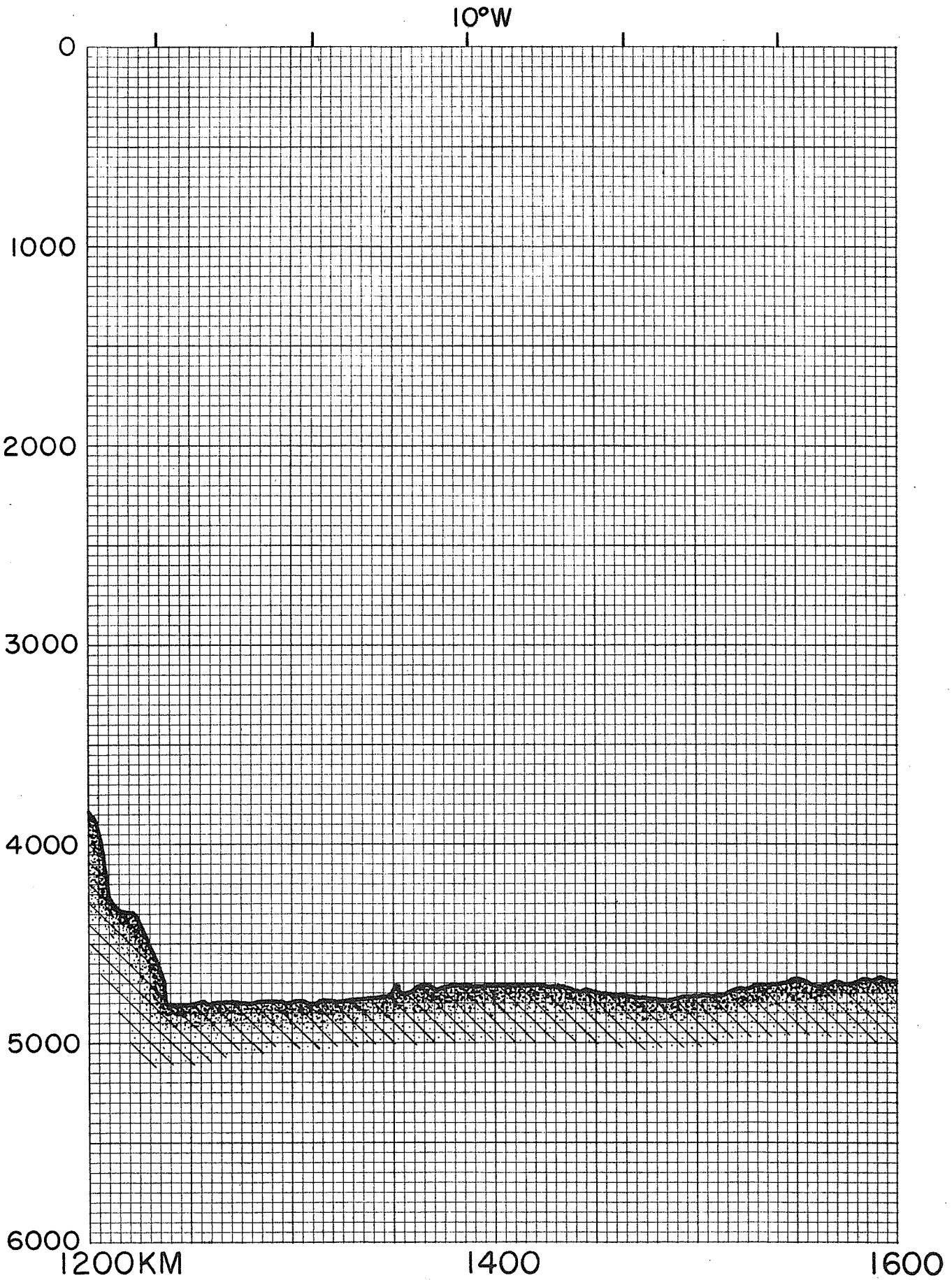
SECTION 3

3-3



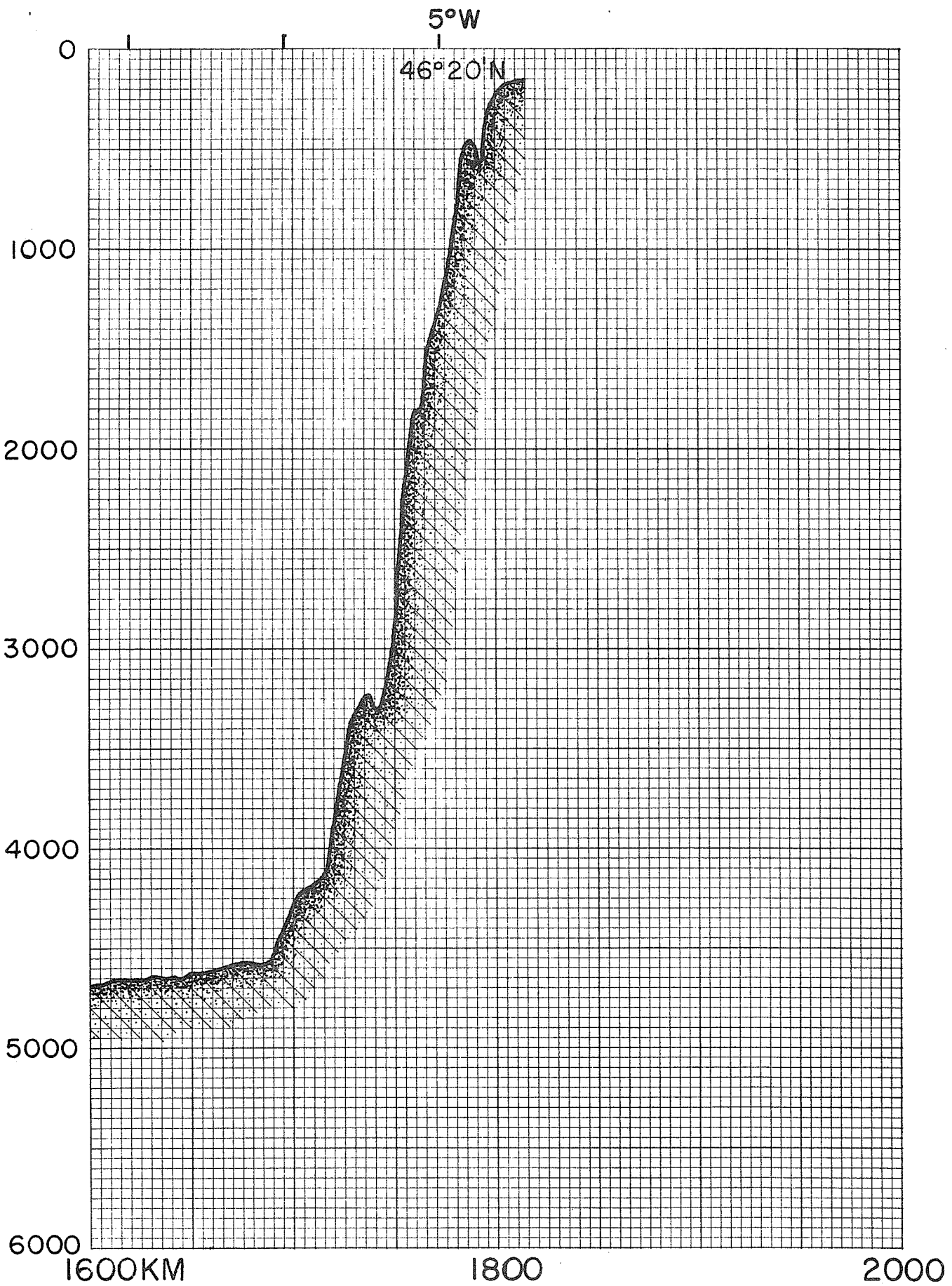
SECTION 3

3-4



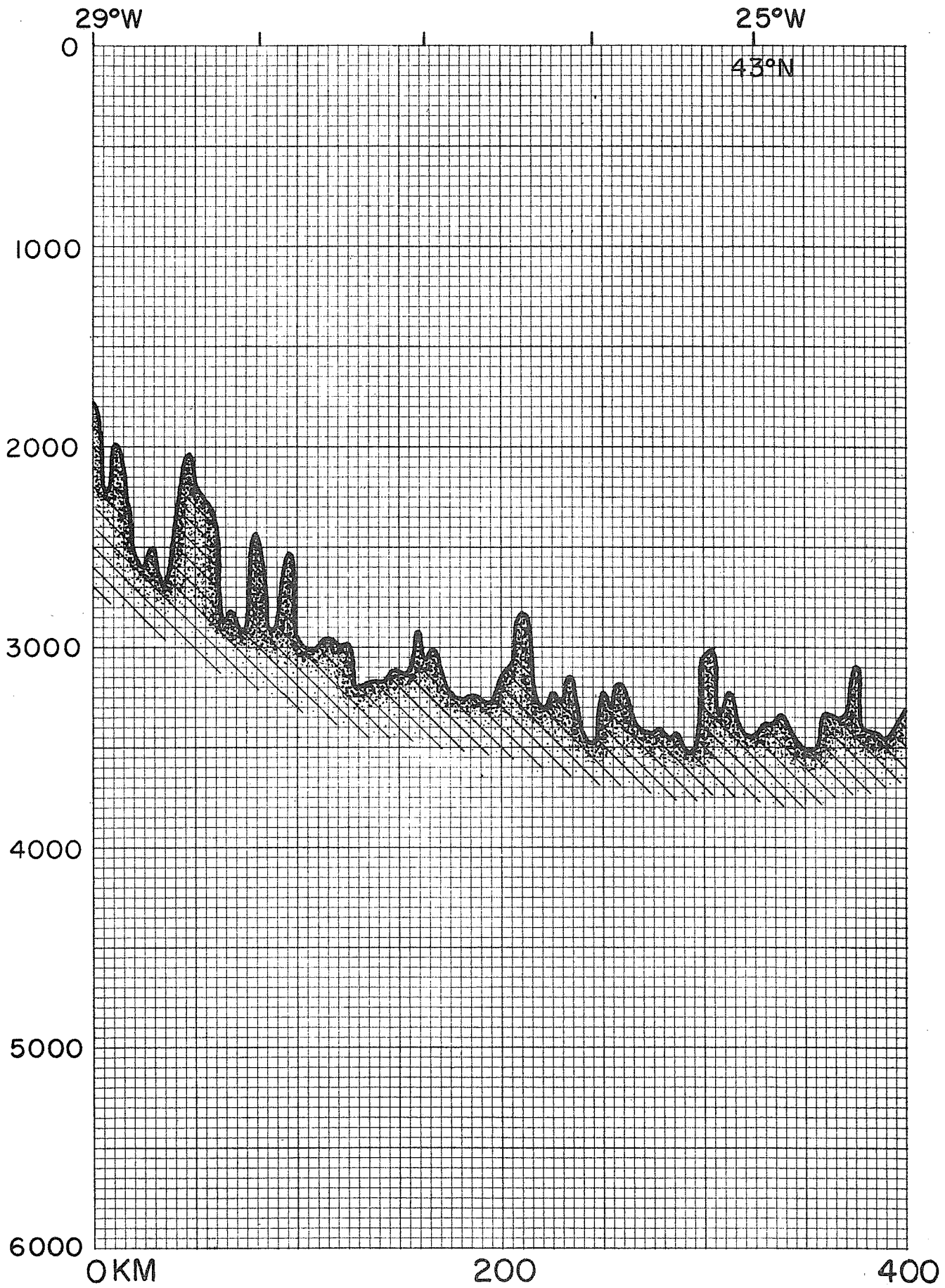
SECTION 3

3-5



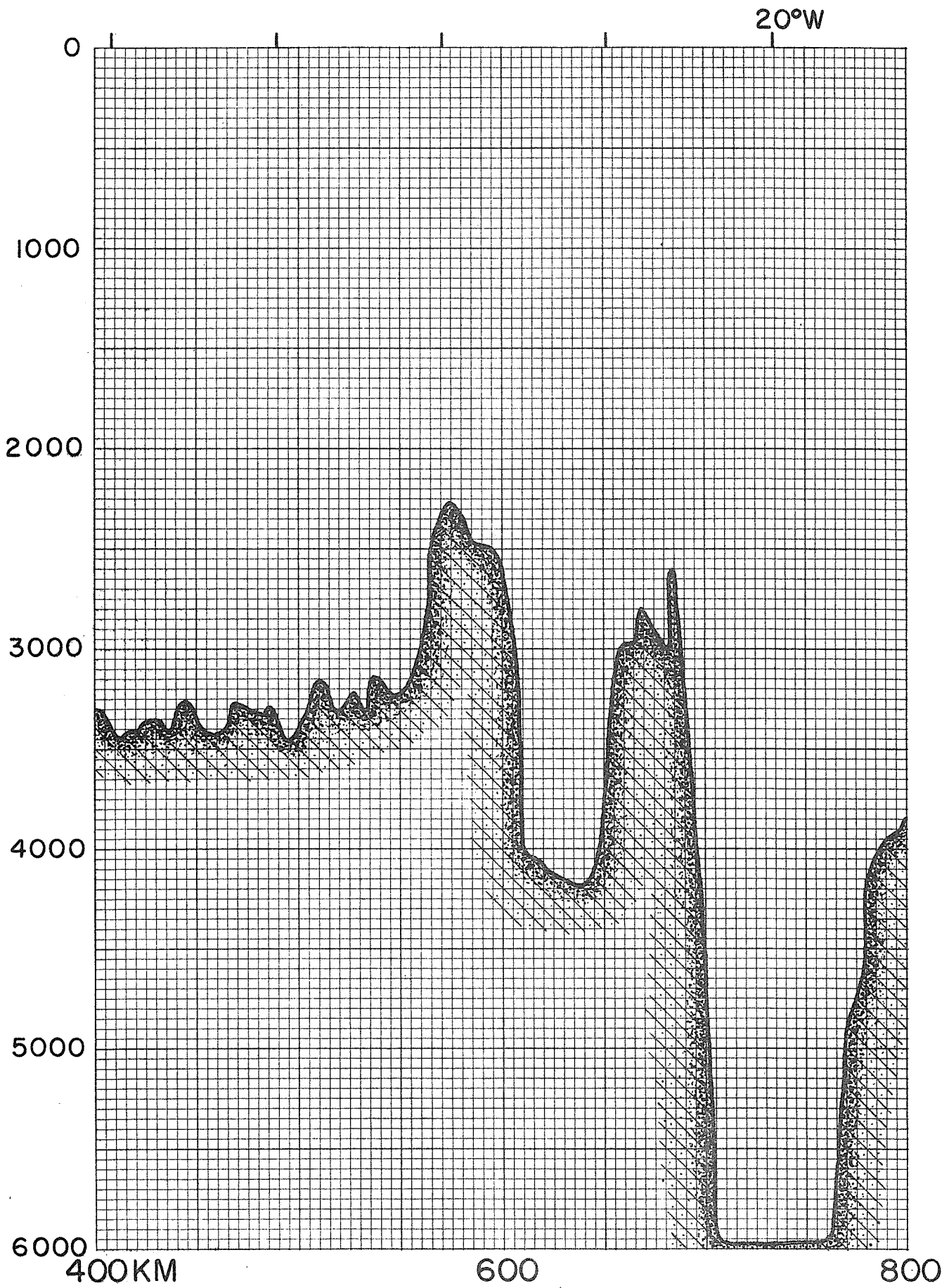
SECTION 4

4-1



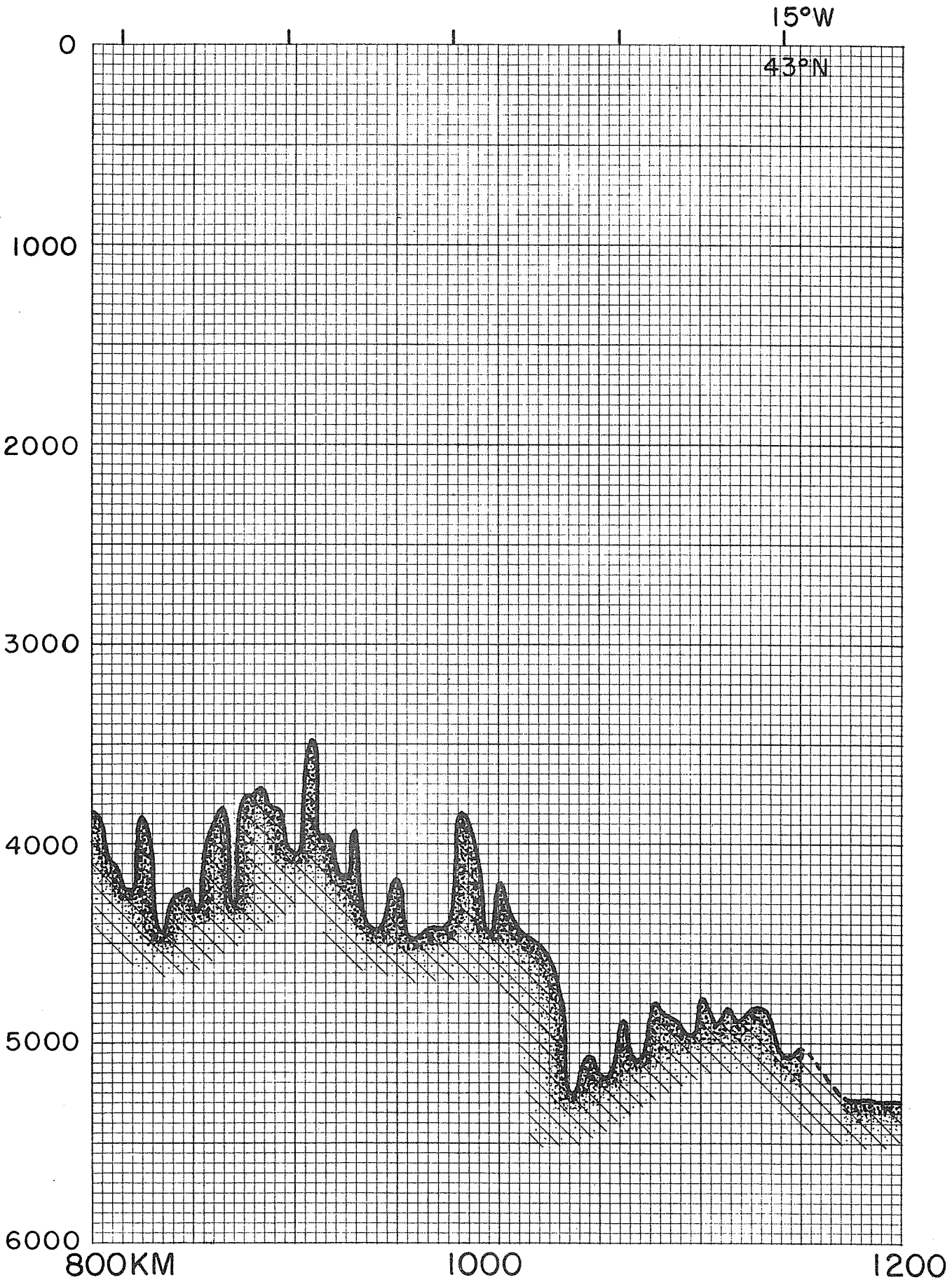
SECTION 4

4-2



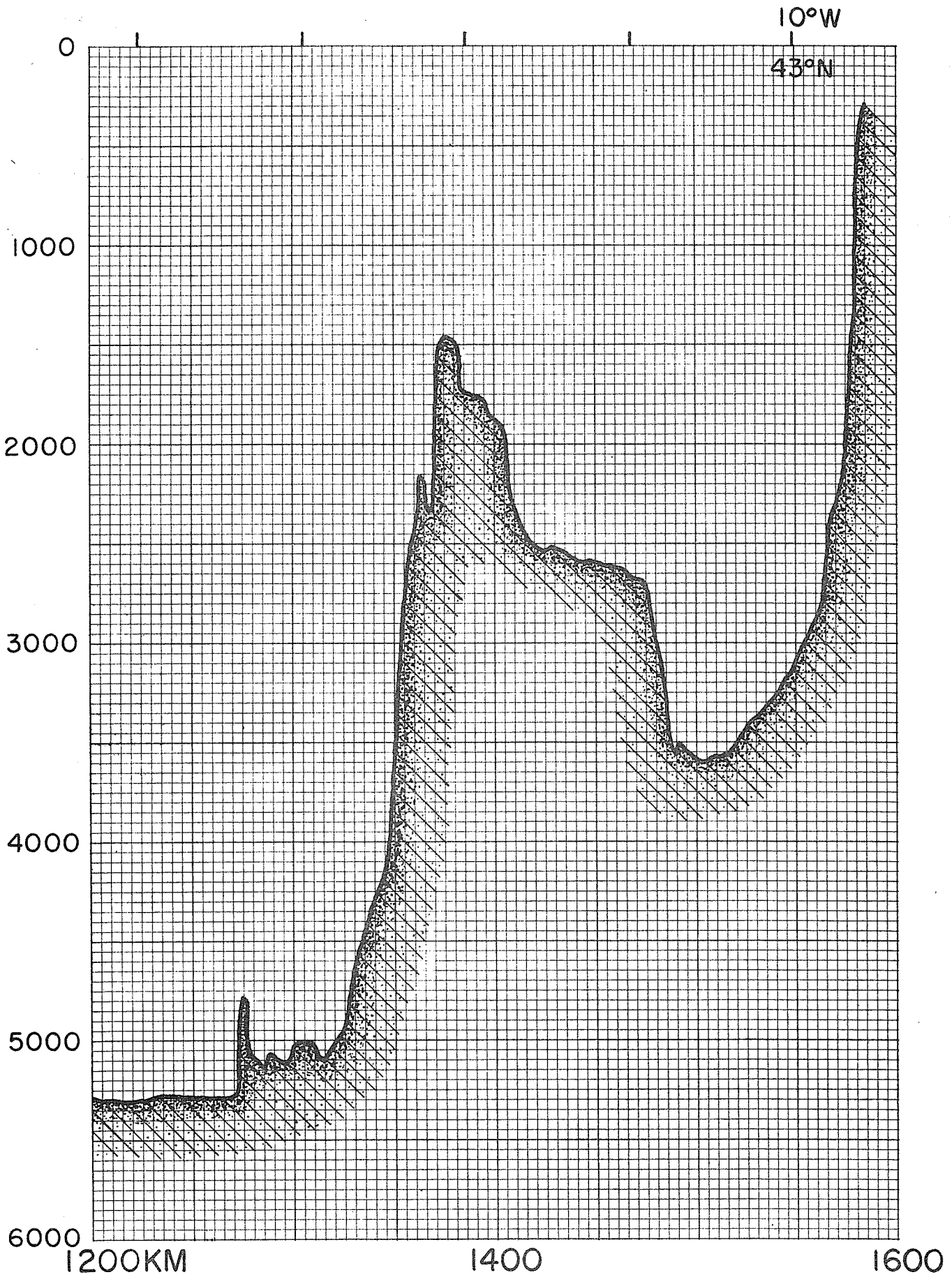
SECTION 4

4-3



SECTION 4

4-4



SECTION 5

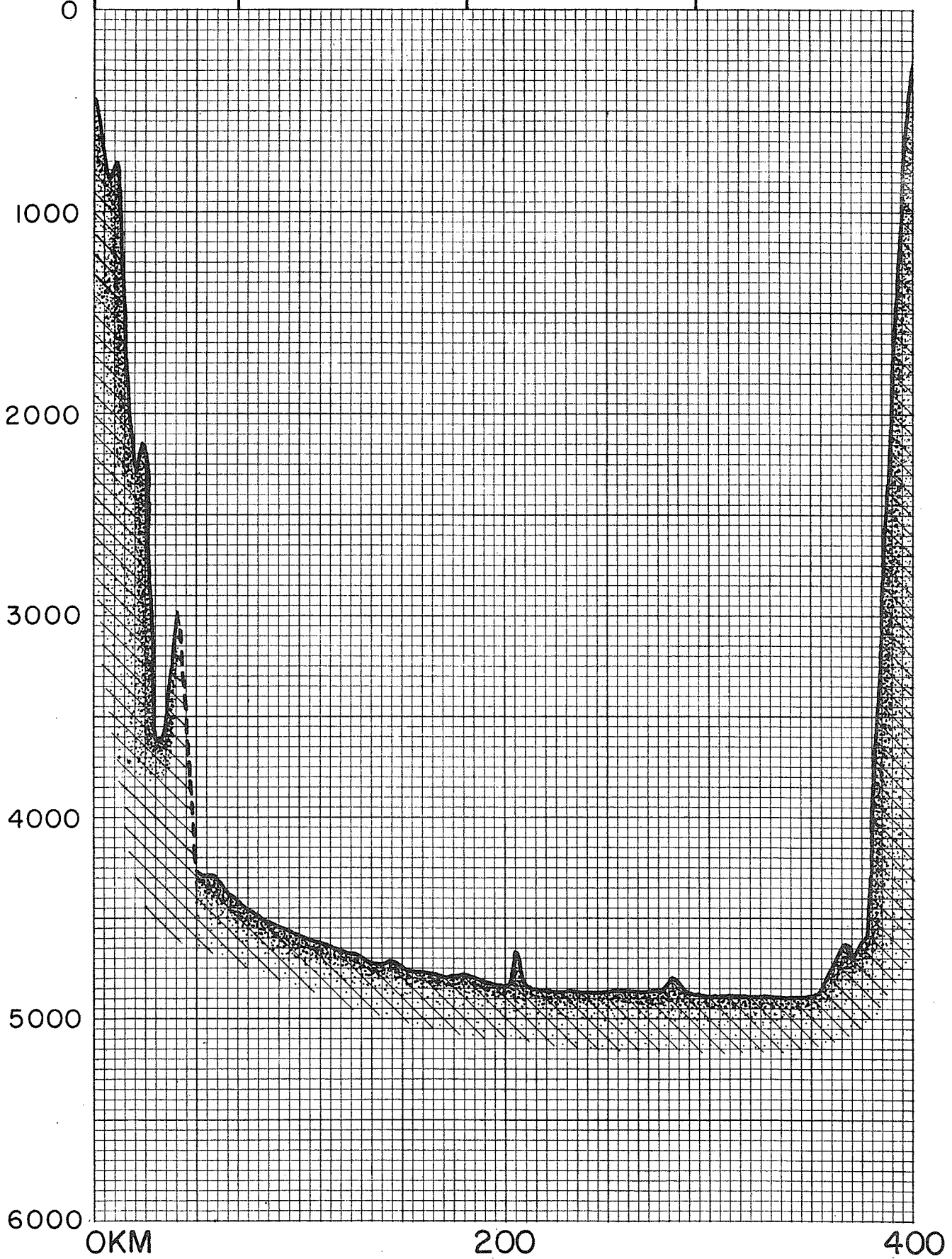
5-1

47°38'N
7°20'W

47°N

46°N

45°N



SECTION 5

5-2

43°52'N
44°N 8°03'W
0

