

APPENDIX III. TRACK CHARTS AND UNDERWAY GEOPHYSICAL DATA

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The following 15 pairs of pages are set up to display the track of *Glomar Challenger* on the upper page, with the lower page displaying the magnetic anomaly and continuous seismic profiles using a constant time base along each segment of the profile. Each chart shows as a solid dark line the track corresponding to the data displayed below. In general, the track is controlled by satellite fixes (see fixes listed at end of appendix) except from Site 113 to 116 when a combination of celestial, Loran and dead reckoning positions was used. We would like to acknowledge Dr. K. G. Shih's considerable assistance in plotting the magnetics and the work of S. Smith and U. Ritter in digitizing them. G. Jollymore drafted the tracks.

Legend for track charts



Course change (time of change usually noted)



Satellite fix (number of fix noted)



Electronic navigation (Loran or radar)



Celestial fix



Hour mark along track. Time indicated is local time. Time zone is indicated at beginning of each new day.



Half hour mark along track.



Drilling site

TABLE 1
Satellite Fixes

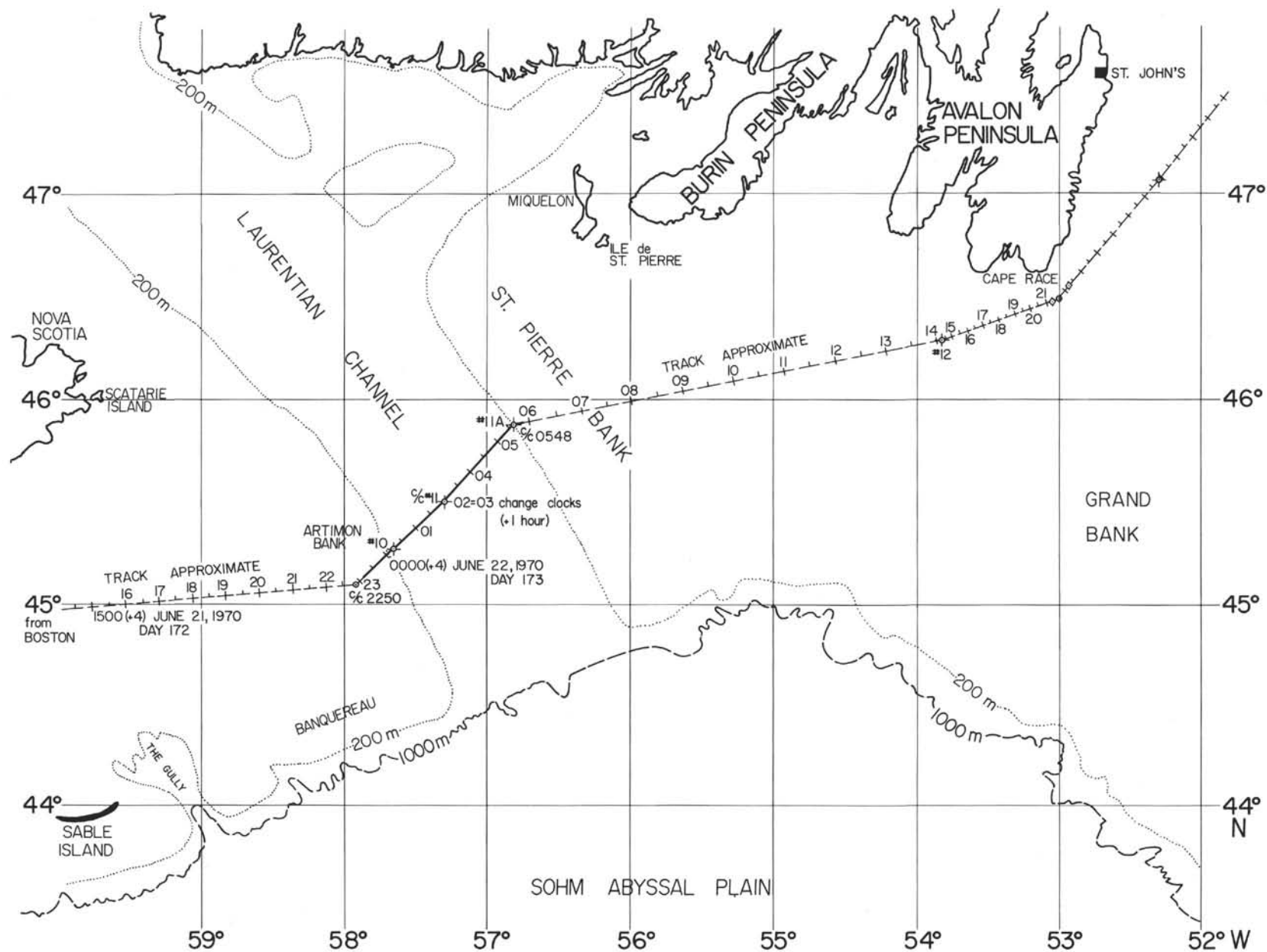
Fix No.	Local Fix Time and Time Zone	Date and Day No. 1970	Latitude	Longitude	Comments
1	2126 (+4)	June 19 (170)	42° 34.80'	-69° 46.02'	Passage to Site 111
2	1550 (+4)	June 20 (171)	43° 17.14'	-65° 16.11'	Passage to Site 111
3	1740 (+4)	June 20 (171)	43° 21.24'	-64° 51.62'	Passage to Site 111
4	2042 (+4)	June 20 (171)	43° 33.80'	-64° 12.27'	Passage to Site 111
5	0104 (+4)	June 21 (172)	43° 49.84'	-63° 07.35'	Passage to Site 111
6	0402 (+4)	June 21 (172)	44° 01.29'	-62° 25.24'	Passage to Site 111
7	0542 (+4)	June 21 (172)	44° 07.98'	-61° 59.86'	Passage to Site 111
8	0848 (+4)	June 21 (172)	44° 19.15'	-61° 15.13'	Passage to Site 111
9	1220 (+4)	June 21 (172)	44° 31.68'	-60° 26.51'	Passage to Site 111
10	0014 (+4)	June 22 (173)	45° 16.28'	-57° 36.99'	Crossing Laurention Channel
11	0200 (+4)	June 22 (173)	45° 31.02'	-57° 17.69'	Crossing Laurention Channel
11A	0548 (+3)	June 22 (173)	45° 53.05'	-56° 48.47'	Crossing Laurention Channel
12	1424 (+3)	June 22 (173)	46° 17.14'	-54° 42.22'	Passage to Site 111
13	1502 (+3)	June 22 (173)	46° 17.62'	-54° 36.17'	Incorrect, not used
14	2152 (+3)	June 22 (173)	46° 30.39'	-52° 59.08'	Passage to Site 111
15	0356 (+3)	June 23 (174)	47° 04.43'	-52° 17.90'	Passage to Site 111
16	0952 (+3)	June 23 (174)	47° 38.50'	-51° 39.43'	Passage to Site 111
17	1226 (+3)	June 23 (174)	47° 52.51'	-51° 11.57'	Passage to Site 111
18	1330 (+3)	June 23 (174)	47° 57.92'	-51° 04.00'	Passage to Site 111
19	1740 (+3)	June 23 (174)	48° 26.24'	-50° 16.70'	Passage to Site 111
20	1910 (+3)	June 23 (174)	48° 34.14'	-50° 01.65'	Passage to Site 111
21	2058 (+3)	June 23 (174)	48° 44.71'	-49° 44.55'	Passage to Site 111
22	0116 (+3)	June 24 (175)	49° 07.71'	-49° 10.30'	Passage to Site 111
23	0902 (+3)	June 24 (175)	49° 47.88'	-48° 20.30'	Passage to Site 111
24	1834 (+3)	June 24 (175)	50° 28.46'	-46° 28.78'	Crossing Orphan Knoll
25	2008 (+3)	June 24 (175)	50° 26.76'	-46° 07.31'	Crossing Orphan Knoll
26	0024 (+3)	June 25 (176)	50° 06.31'	-46° 07.60'	Crossing Orphan Knoll
27	0210 (+3)	June 25 (176)	50° 14.17'	-46° 16.16'	Crossing Orphan Knoll
28	0454 (+3)	June 25 (176)	50° 25.52'	-46° 21.23'	Not positioned over beacon
29	1228 (+3)	June 25 (176)	50° 25.58'	-46° 22.03'	Site 111
30	1416 (+3)	June 25 (176)	50° 25.60'	-46° 22.08'	Site 111
31	1554 (+3)	June 25 (176)	50° 25.53'	-46° 22.08'	Site 111
32	1920 (+3)	June 25 (176)	50° 25.55'	-46° 22.02'	Site 111
33	1234 (+3)	June 27 (178)	50° 25.58'	-46° 22.05'	Site 111
34	1548 (+3)	June 27 (178)	50° 25.55'	-46° 22.09'	Site 111
35	2118 (+3)	June 27 (178)	50° 25.55'	-46° 22.10'	Site 111
36	0554 (+3)	June 28 (179)	50° 25.90'	-46° 20.04'	Passage to Site 112
37	0928 (+3)	June 28 (179)	50° 44.58'	-45° 44.44'	Passage to Site 112
38	1108 (+3)	June 28 (179)	50° 57.19'	-45° 42.84'	Passage to Site 112
39	1254 (+3)	June 28 (179)	51° 10.11'	-45° 49.32'	Passage to Site 112
40	1452 (+3)	June 28 (179)	51° 23.12'	-45° 56.70'	Passage to Site 112
41	1640 (+3)	June 28 (179)	51° 33.68'	-46° 03.03'	Passage to Site 112
42	1840 (+3)	June 28 (179)	51° 44.65'	-46° 13.04'	Passage to Site 112
43	2028 (+3)	June 28 (179)	51° 54.43'	-46° 21.78'	Passage to Site 112
44	2314 (+3)	June 28 (179)	52° 20.16'	-46° 39.18'	Passage to Site 112
46	0032 (+3)	June 29 (180)	52° 32.79'	-46° 46.06'	Passage to Site 112
47	0442 (+3)	June 29 (180)	53° 15.88'	-47° 00.88'	Passage to Site 112
48	0632 (+3)	June 29 (180)	53° 34.23'	-47° 06.59'	Passage to Site 112
49	0834 (+3)	June 29 (180)	53° 51.80'	-46° 47.22'	Passage to Site 112
50	1020 (+3)	June 29 (180)	54° 04.60'	-46° 36.15'	Passage to Site 112
51	1056 (+3)	June 29 (180)	54° 01.52'	-46° 33.64'	(3 dopplers) Passage to Site 112
52	1238 (+3)	June 29 (180)	54° 00.93'	-46° 36.24'	Site 112
53	1938 (+3)	June 29 (180)	54° 00.98'	-46° 36.30'	Site 112
54	2126 (+3)	June 29 (180)	54° 01.00'	-46° 36.22'	Site 112
55	0600 (+3)	June 30 (181)	54° 01.03'	-46° 36.18'	Site 112

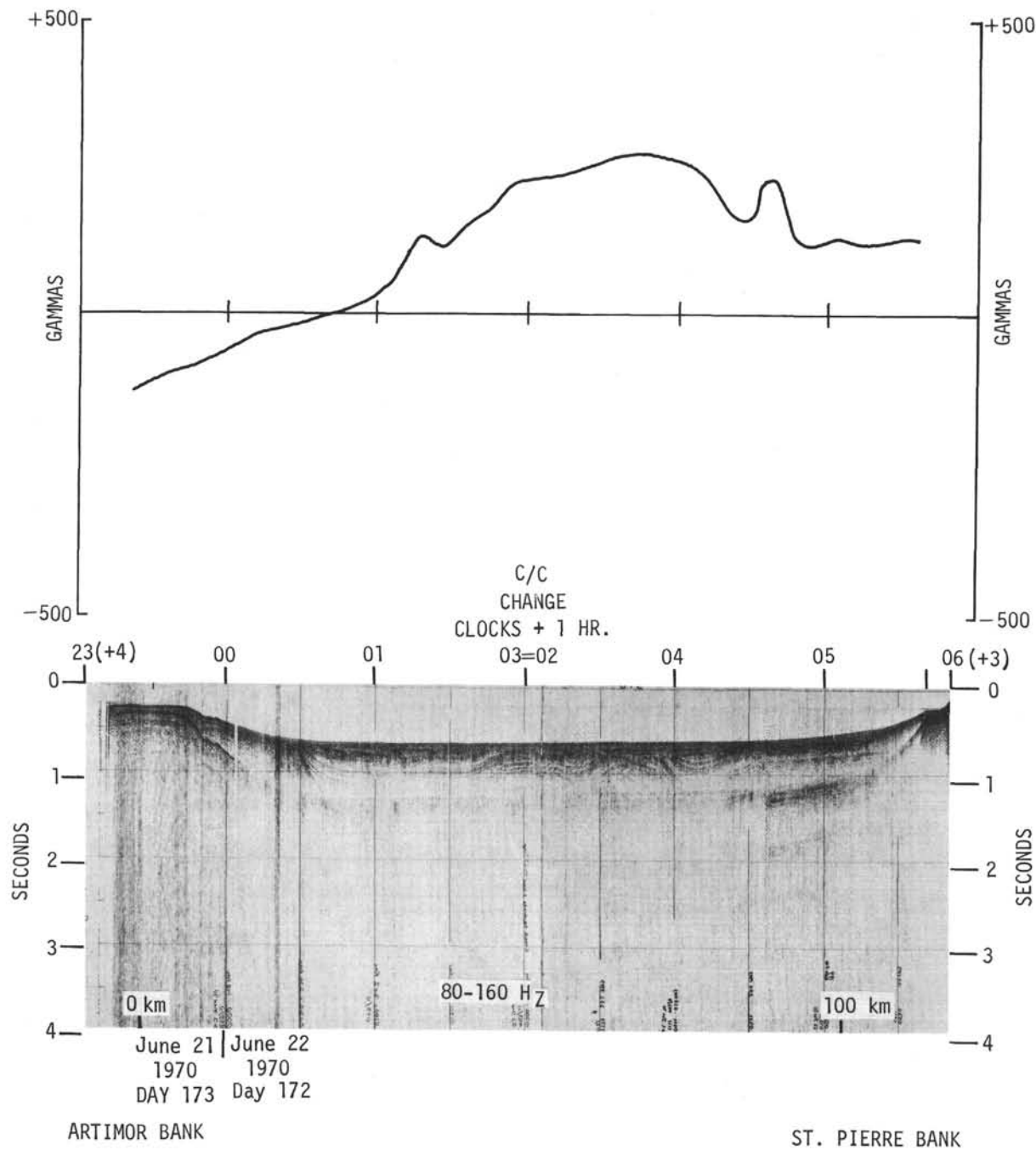
TABLE 1 – Continued

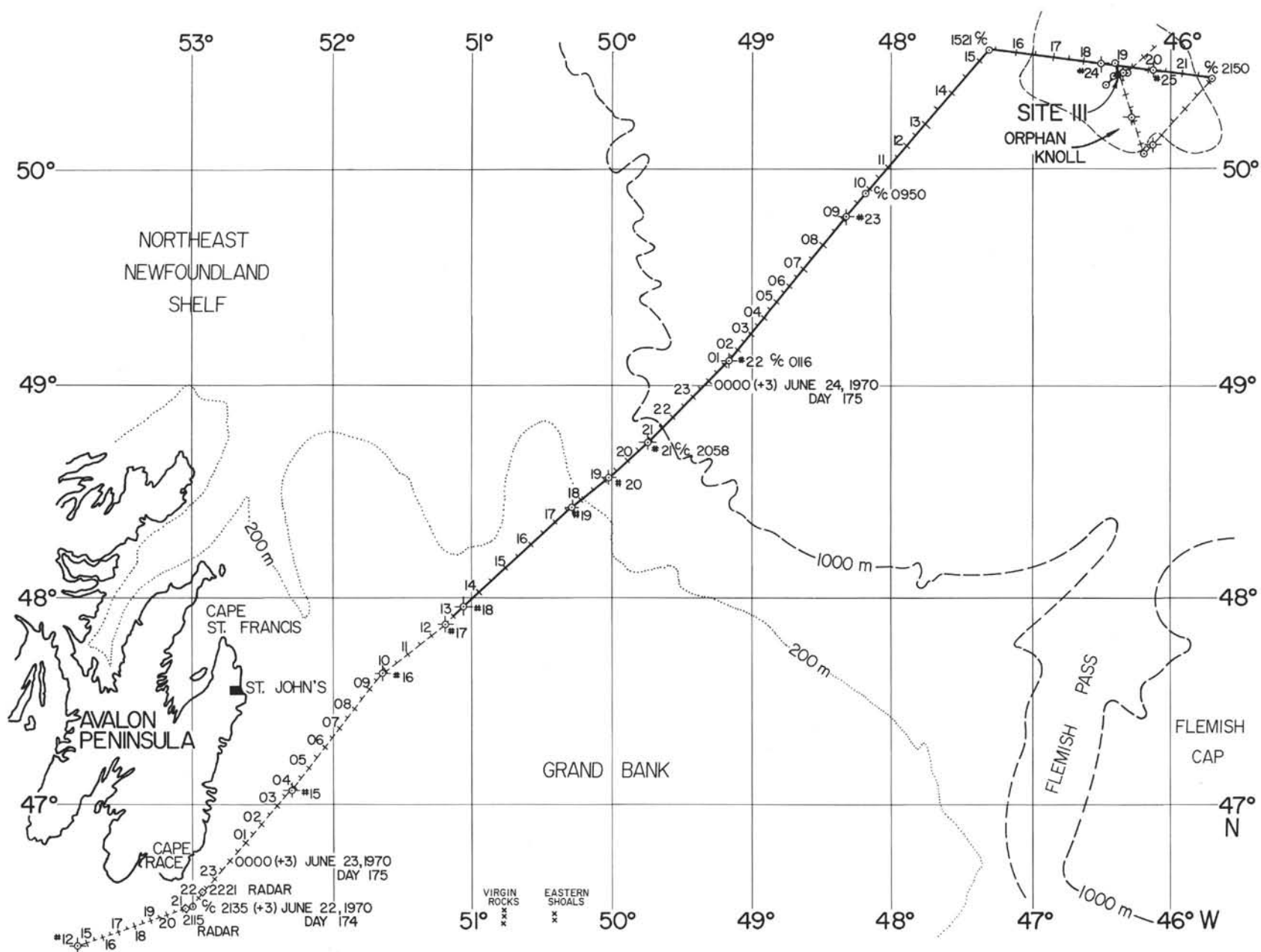
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56	0746 (+3)	June 30 (181)	54° 01.04'	-46° 36.25'	
57	1538 (+3)	July 3 (184)	53° 58.32'	-46° 39.17'	Passage to Site 113
58	1724 (+3)	July 3 (184)	54° 05.64'	-46° 29.99'	Passage to Site 113
59	1958 (+3)	July 3 (184)	54° 19.36'	-46° 35.33'	Passage to Site 113
60	2244 (+3)	July 3 (184)	54° 28.45'	-47° 21.23'	Passage to Site 113
61	2348 (+3)	July 3 (184)	54° 34.59'	-47° 35.22'	Passage to Site 113
62	0626 (+3)	July 4 (185)	55° 30.46'	-47° 09.97'	Passage to Site 113
63	1132 (+3)	July 4 (185)	56° 13.54'	-48° 05.88'	Passage to Site 113
64	1320 (+3)	July 4 (185)	56° 27.95'	-48° 25.59'	Passage to Site 113
65	1628 (+3)	July 4 (185)	56° 58.36'	-48° 11.31'	Passage to Site 113
66	1720 (+3)	July 4 (185)	56° 58.87'	-48° 12.30'	Passage to Site 113
67	2058 (+3)	July 4 (185)	56° 45.45'	-48° 21.88'	Site 113, first beacon
68	0042 (+3)	July 5 (186)	56° 47.38'	-48° 20.08'	Site 113, first beacon
69	0234 (+3)	July 5 (186)	56° 47.34'	-48° 20.05'	Site 113, first beacon
70	0252 (+3)	July 5 (186)	56° 47.44'	-48° 20.05'	Site 113, first beacon
71	0910 (+3)	July 5 (186)	56° 47.46'	-48° 20.12'	Site 113, first beacon
72	1048 (+3)	July 5 (186)	56° 47.33'	-48° 20.18'	Site 113, first beacon
73	1106 (+3)	July 5 (186)	56° 47.47'	-48° 20.07'	Site 113, first beacon
74	1828 (+3)	July 7 (188)	56° 47.40'	-48° 19.88'	Site 113, second beacon
75	0454 (+3)	July 8 (189)	56° 47.37'	-48° 19.90'	Site 113, second beacon
76	0524 (+3)	July 8 (189)	56° 47.41'	-48° 20.00'	Site 113, second beacon
77	0640 (+3)	July 8 (189)	56° 47.44'	-48° 19.87'	Site 113, second beacon
78	1004 (+3)	July 8 (189)	56° 47.45'	-48° 19.98'	Site 113, second beacon
79	1622 (+3)	July 8 (189)	56° 39.21'	-47° 19.45'	Passage to Site 114
80	1740 (+3)	July 8 (189)	56° 35.16'	-46° 56.22'	Passage to Site 114
81	1928 (+3)	July 8 (189)	56° 28.07'	-46° 24.93'	Passage to Site 114
82	2304 (+3)	July 8 (189)	56° 13.14'	-45° 25.03'	Passage to Site 114
Satellite receiver became inoperative for 13 days.					
83	1334 (+1)	July 21 (202)	57° 29.76'	-15° 55.51'	Site 116
84	1520 (+1)	July 21 (202)	57° 29.77'	-15° 55.46'	Site 116
85	1804 (+1)	July 21 (202)	57° 27.76'	-15° 55.42'	Site 116
86	1952 (+1)	July 21 (202)	57° 30.75'	-15° 57.81'	Incorrect, not used
87	1428 (+1)	July 22 (203)	57° 20.11'	-15° 23.98'	Site 117
88	2146 (+1)	July 22 (203)	57° 20.21'	-15° 23.91'	Site 117
89	2202 (+1)	July 22 (203)	57° 20.11'	-15° 23.98'	Site 117
90	2308 (+1)	July 22 (203)	57° 19.36'	-15° 21.52'	Site 117
91	2336 (+1)	July 22 (203)	57° 20.18'	-15° 23.40'	Site 117
92	2348 (+1)	July 22 (203)	57° 20.18'	-15° 24.09'	Site 117
93	0120 (+1)	July 23 (204)	57° 20.27'	-15° 23.90'	Site 117
94	1814 (+1)	July 23 (204)	57° 20.12'	-15° 23.88'	Site 117
95	1110 (+1)	July 24 (205)	57° 20.15'	-15° 24.02'	Site 117
96	2342 (+1)	July 24 (205)	57° 14.66'	-15° 47.84'	Passage to Site 118
97	2358 (+1)	July 24 (205)	57° 13.53'	-15° 52.34'	Passage to Site 118
98	0918 (+1)	July 25 (206)	56° 27.11'	-18° 26.79'	Passage to Site 118
99	1142 (+1)	July 25 (206)	56° 08.27'	-18° 57.66'	Passage to Site 118
100	1332 (+1)	July 25 (206)	55° 53.43'	-19° 20.90'	Passage to Site 118
101	1352 (+1)	July 25 (206)	55° 50.78'	-19° 25.32'	Passage to Site 118
102	1644 (+1)	July 25 (206)	55° 28.37'	-20° 05.77'	Passage to Site 118
103	0048 (+1)	July 26 (207)	54° 17.54'	-19° 21.64'	Passage to Site 118
104	1058	July 26 (207)	52° 58.32'	-18° 28.45'	Passage to Site 118
105	1356	July 26 (207)	52° 30.80'	-18° 10.06'	Passage to Site 118
106	1530	July 26 (207)	52° 22.42'	-18° 08.64'	Passage to Site 118
107	1840	July 26 (207)	51° 52.03'	-17° 38.67'	Passage to Site 118
108	0142	July 27 (208)	50° 48.29'	-17° 07.06'	Passage to Site 118
109	0458	July 27 (208)	50° 16.69'	-16° 48.41'	Passage to Site 118
110	0518	July 27 (208)	50° 13.33'	-16° 46.48'	Passage to Site 118

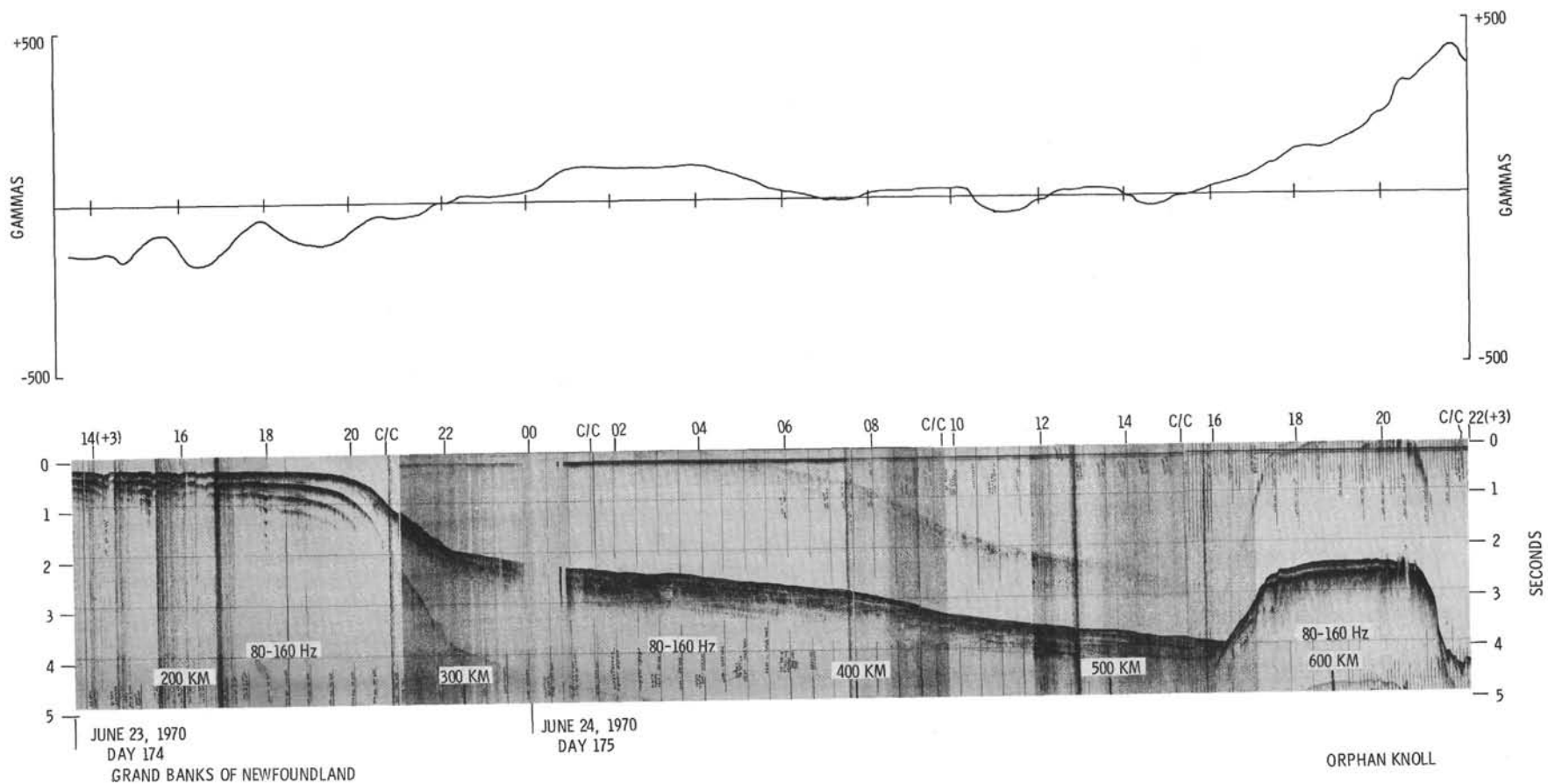
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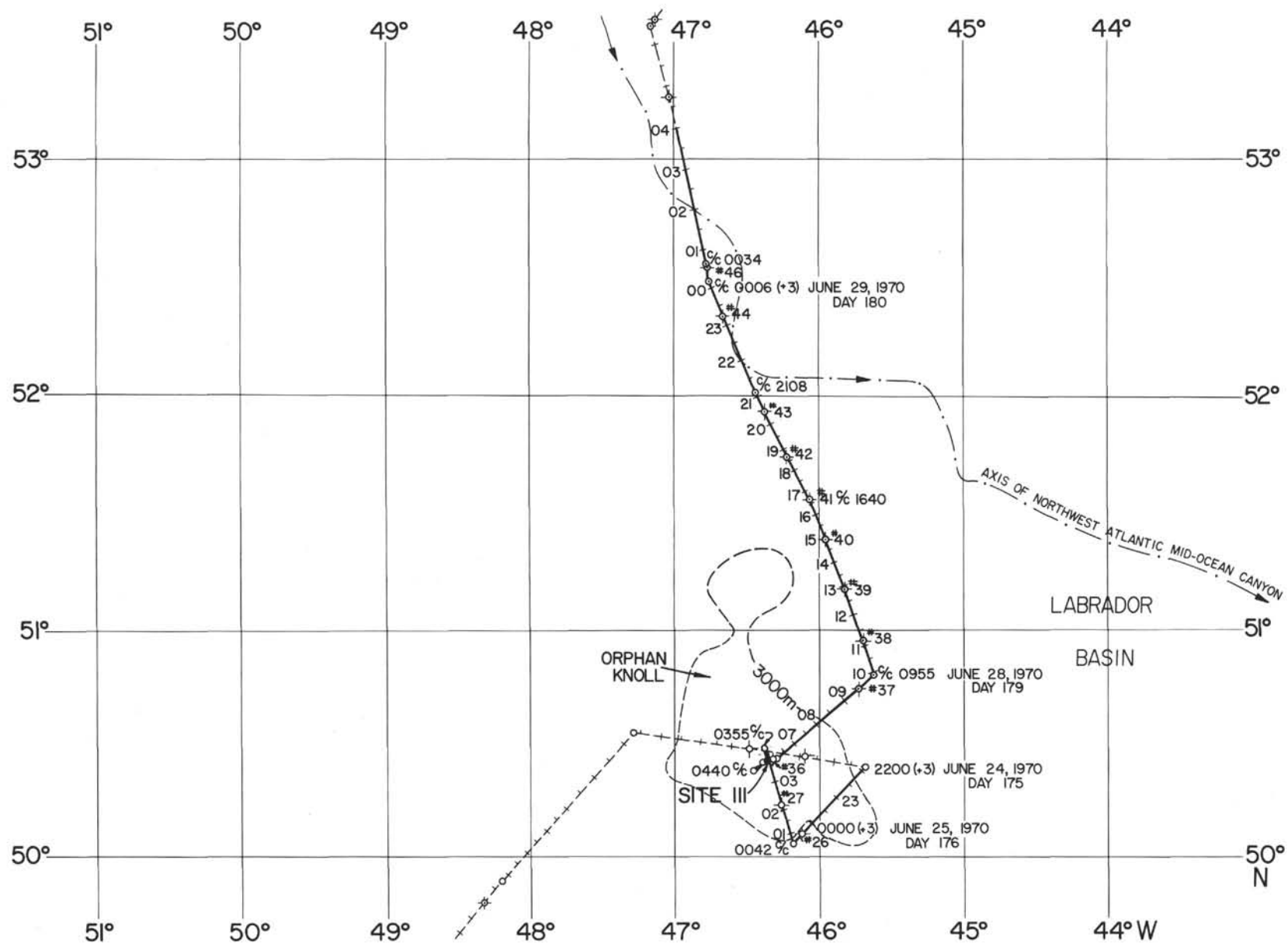
Fix No.	Local Fix Time and Time Zone	Date and Day No. 1970	Latitude	Longitude	Comments
111	0834	July 27 (208)	49° 42.46'	-16° 27.51'	Passage to Site 118
112	1340	July 27 (208)	49° 07.25'	-15° 23.04'	Passage to Site 118
113	1456	July 27 (208)	48° 50.50'	-15° 06.10'	Incorrect, not used
114	1602	July 27 (208)	48° 47.10'	-14° 52.14'	Passage to Site 118
115	1754	July 27 (208)	48° 32.31'	-14° 28.42'	Passage to Site 118
116	1936	July 27 (208)	48° 19.48'	-14° 07.62'	Passage to Site 118
117	2358	July 27 (208)	47° 47.31'	-13° 17.54'	Passage to Site 118
118	1354	July 28 (209)	46° 18.30'	-10° 43.69'	Passage to Site 118
119	1948	July 28 (209)	45° 30.83'	-09° 42.94'	Passage to Site 118
120	0210	July 29 (210)	45° 05.28'	-08° 56.87'	Passage to Site 118
121	1116 (-1)	July 29 (210)	45° 02.63'	-09° 00.68'	Site 118
122	1408 (-1)	July 29 (210)	45° 02.65'	-09° 00.62'	Site 118
123	1902 (-1)	July 29 (210)	45° 02.60'	-09° 00.55'	Site 118
124	2322 (-1)	July 29 (210)	45° 02.55'	-09° 00.50'	Site 118
125	0106 (-1)	July 30 (211)	45° 02.71'	-09° 00.63'	Site 118
126	0144 (-1)	July 30 (211)	45° 02.77'	-09° 00.66'	Site 118
127	1130 (-1)	July 30 (211)	45° 02.70'	-09° 00.74'	Site 118
128	1618 (-1)	July 30 (211)	45° 02.62'	-09° 00.69'	Site 118
129	0418 (-1)	July 31 (212)	45° 02.65'	-09° 03.63'	Incorrect, not used.
130	1726 (-1)	July 31 (212)	45° 10.31'	-09° 02.85'	Incorrect, not used.
131	1334 (-1)	August 2 (214)	45° 01.39'	-08° 44.76'	Passage to Site 119
132	1706 (-1)	August 2 (214)	45° 10.24'	-08° 06.77'	Passage to Site 119
133	1730 (-1)	August 2 (214)	45° 10.56'	-08° 01.93'	Passage to Site 119
134	2332 (-1)	August 2 (214)	45° 01.94'	-07° 58.46'	Site 119
135	0120 (-1)	August 3 (215)	45° 01.90'	-07° 58.41'	Site 119
136	1612 (-1)	August 3 (215)	45° 01.88'	-07° 58.43'	Site 119
137	0040 (-1)	August 4 (216)	45° 01.95'	-07° 58.36'	Site 119
138	2200 (-1)	August 4 (216)	45° 01.98'	-07° 58.49'	Site 119
139	0126 (-1)	August 5 (217)	45° 01.85'	-07° 58.50'	Site 119
140	0320 (-1)	August 5 (217)	45° 01.93'	-07° 58.68'	Site 119
141	2252 (-1)	August 5 (217)	45° 01.73'	-07° 58.67'	Site 119
142	0006 (-1)	August 9 (221)	45° 01.92'	-07° 58.40'	Site 119
143	1152 (-1)	August 9 (221)	44° 58.36'	-08° 04.28'	Passage to Lisbon
144	1336 (-1)	August 9 (221)	44° 49.13'	-08° 14.95'	Passage to Lisbon
145	1414 (-1)	August 9 (221)	44° 43.68'	-08° 20.31'	Passage to Lisbon
146	2300 (-1)	August 9 (221)	43° 25.53'	-09° 22.02'	Passage to Lisbon

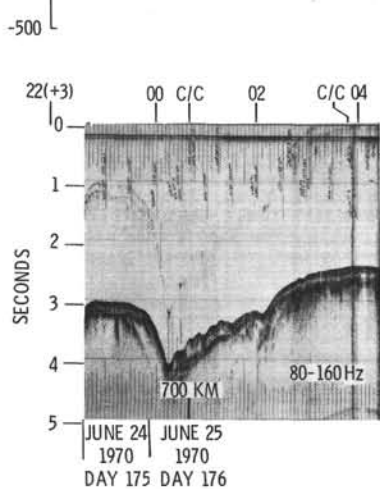
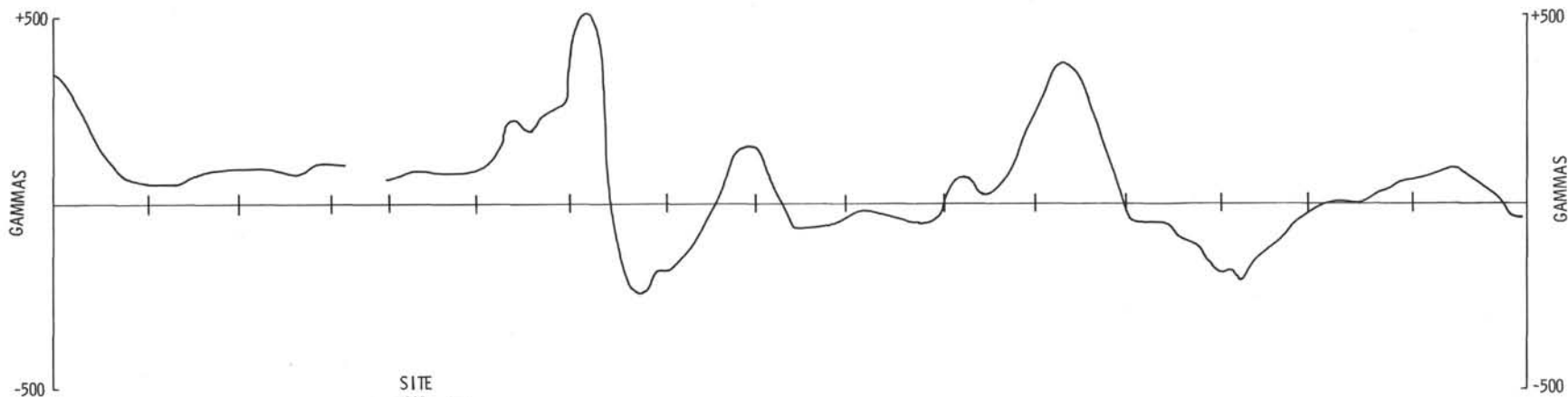




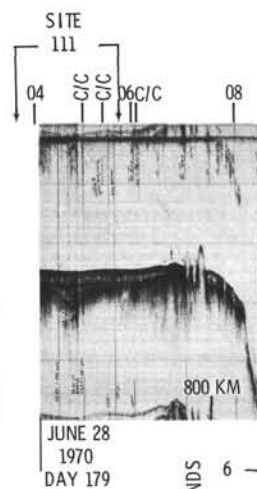




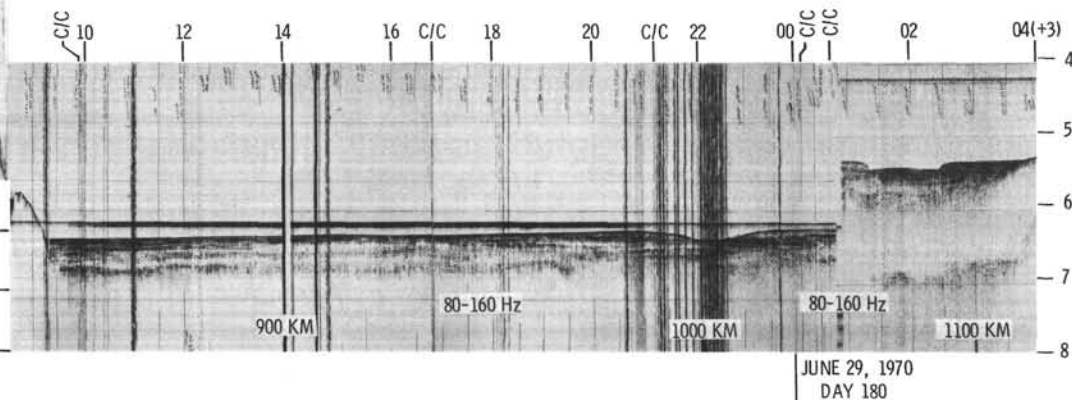




ORPHAN KNOLL

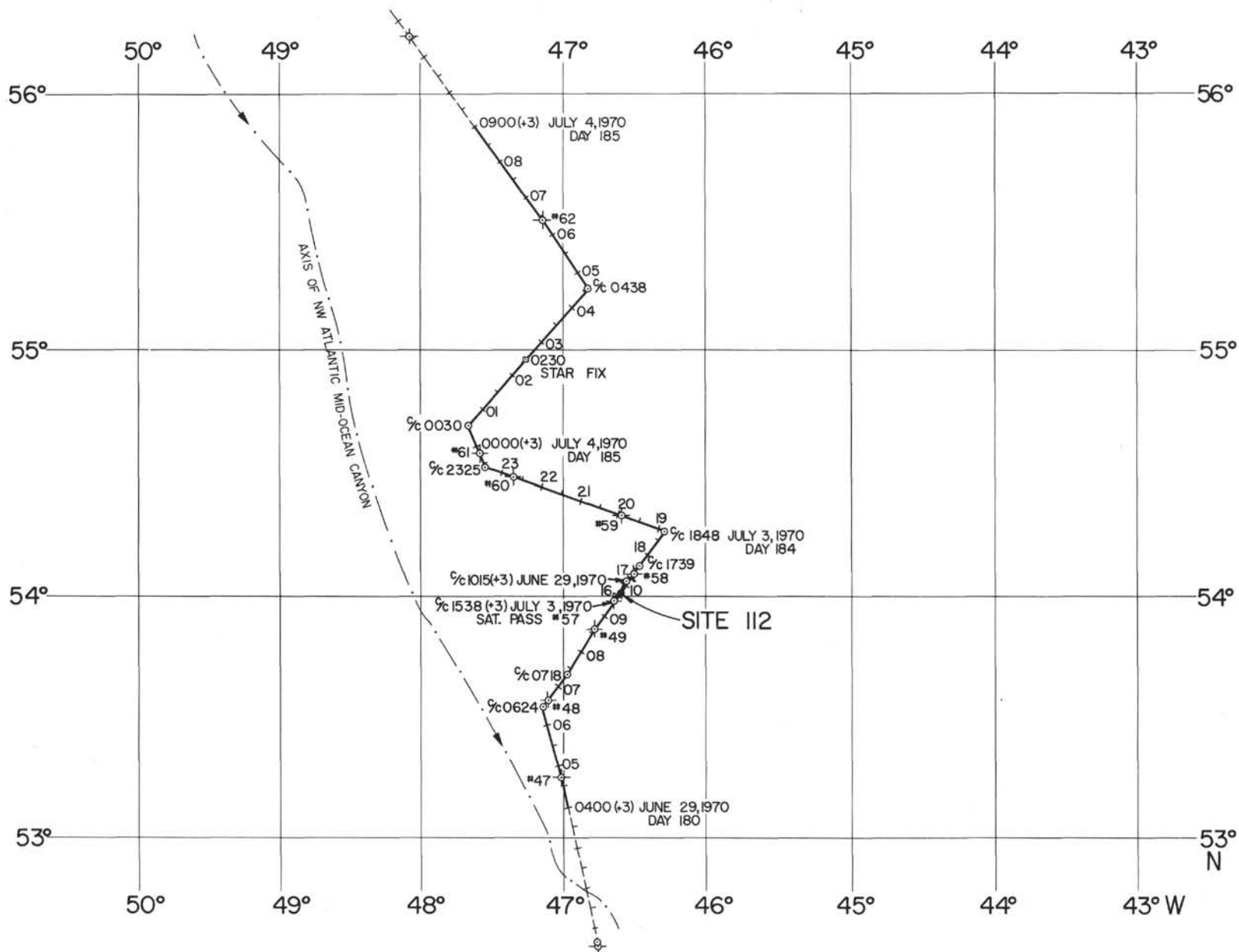


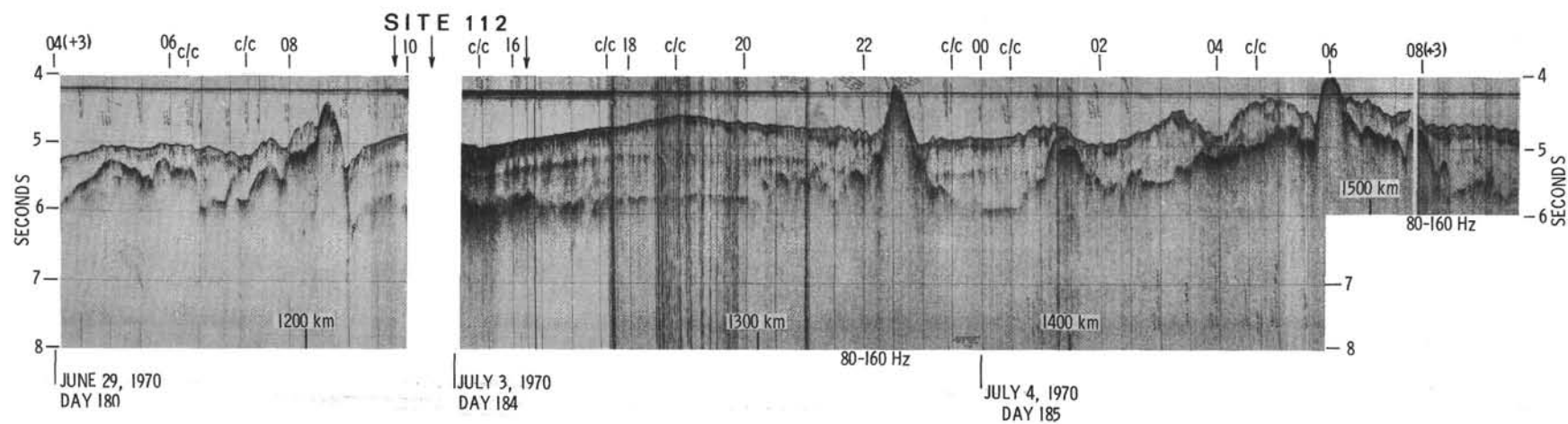
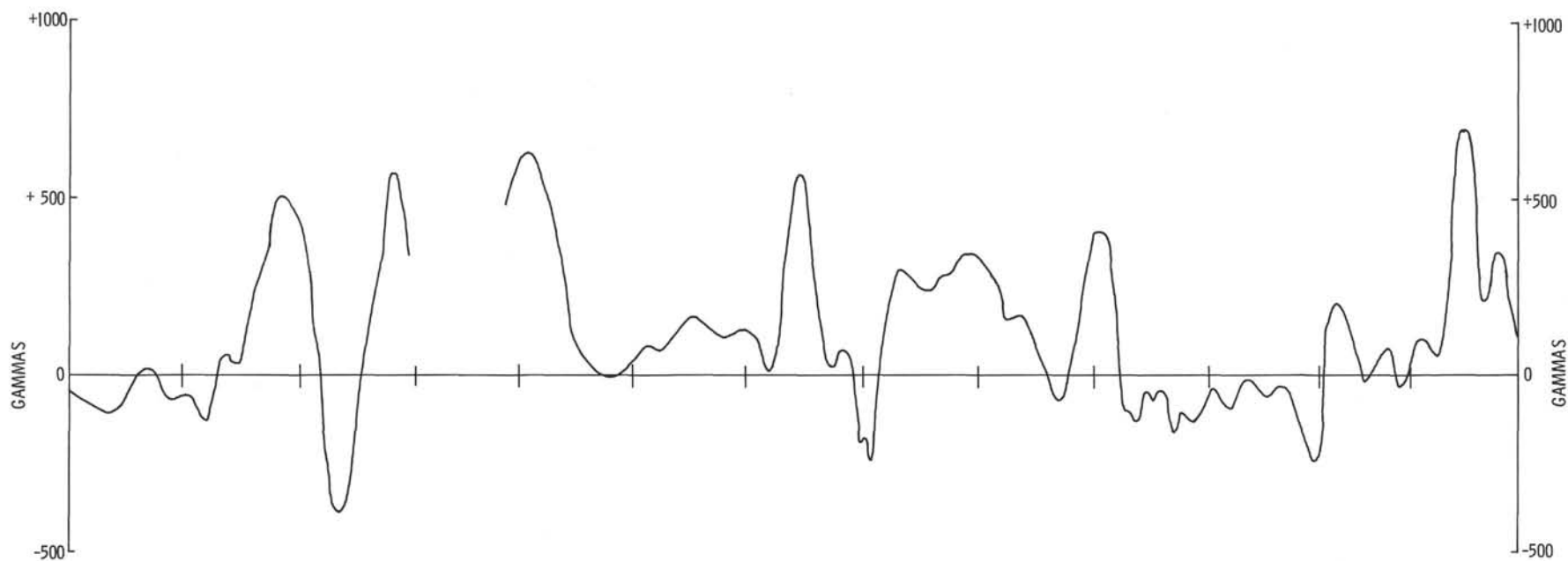
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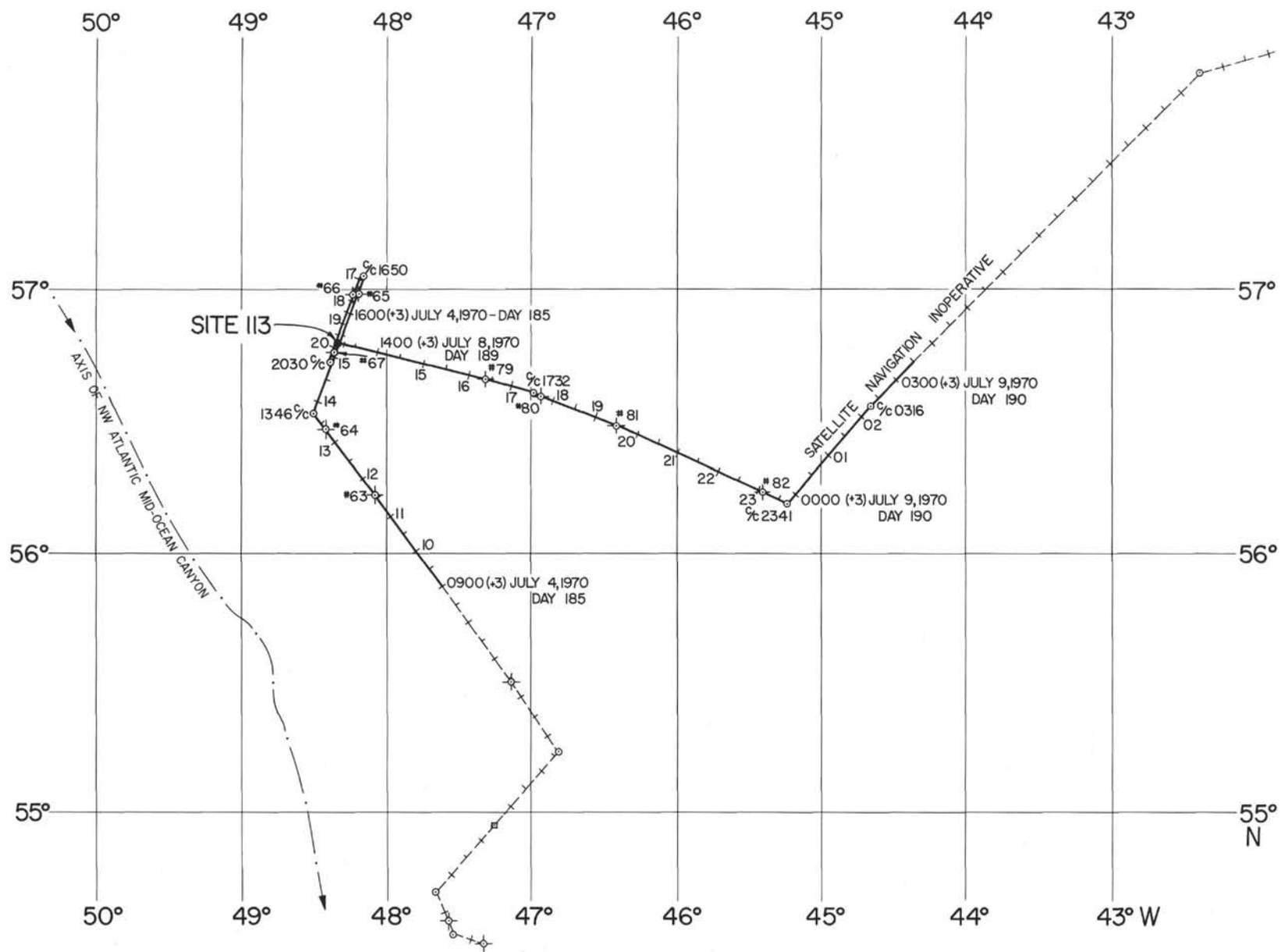


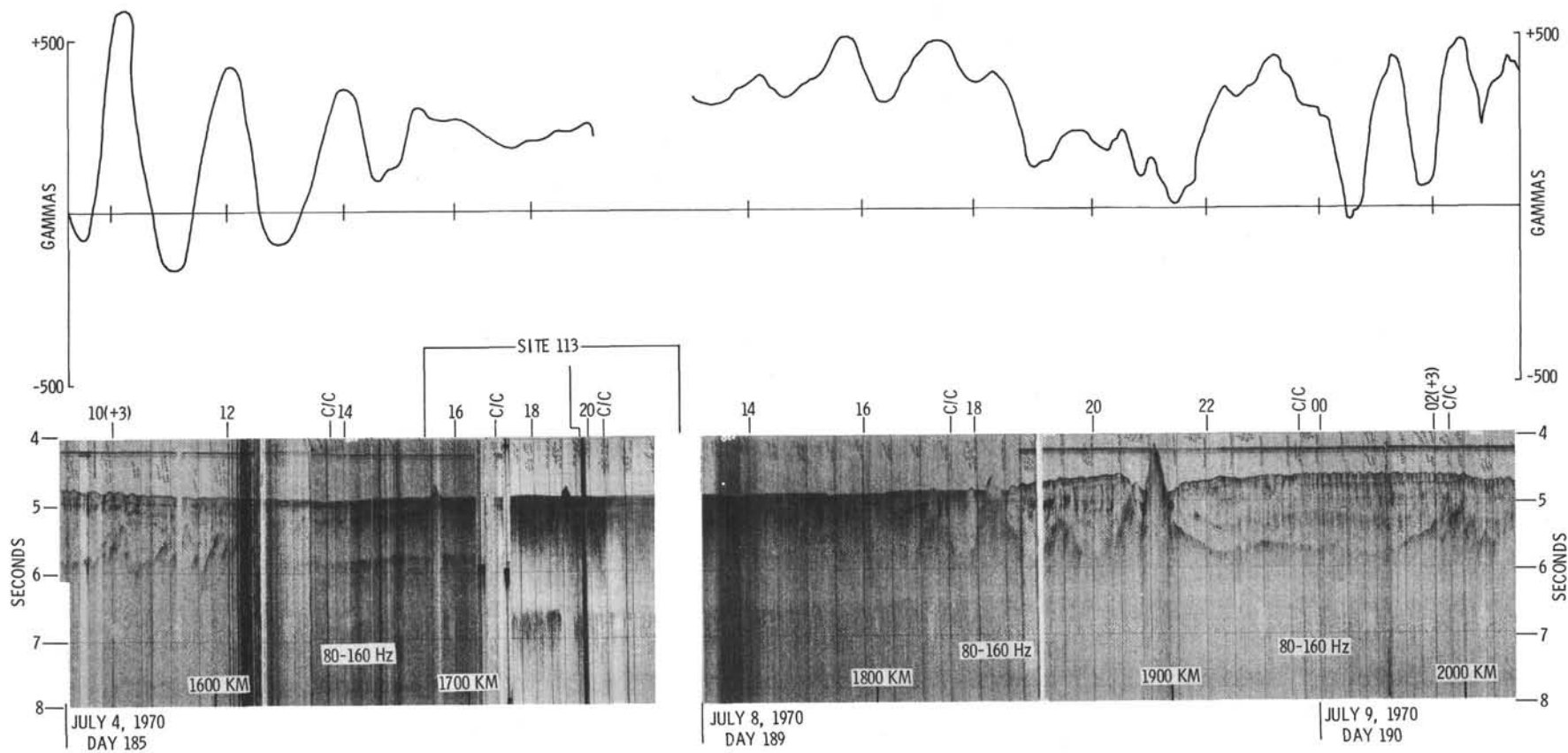
LABRADOR BASIN

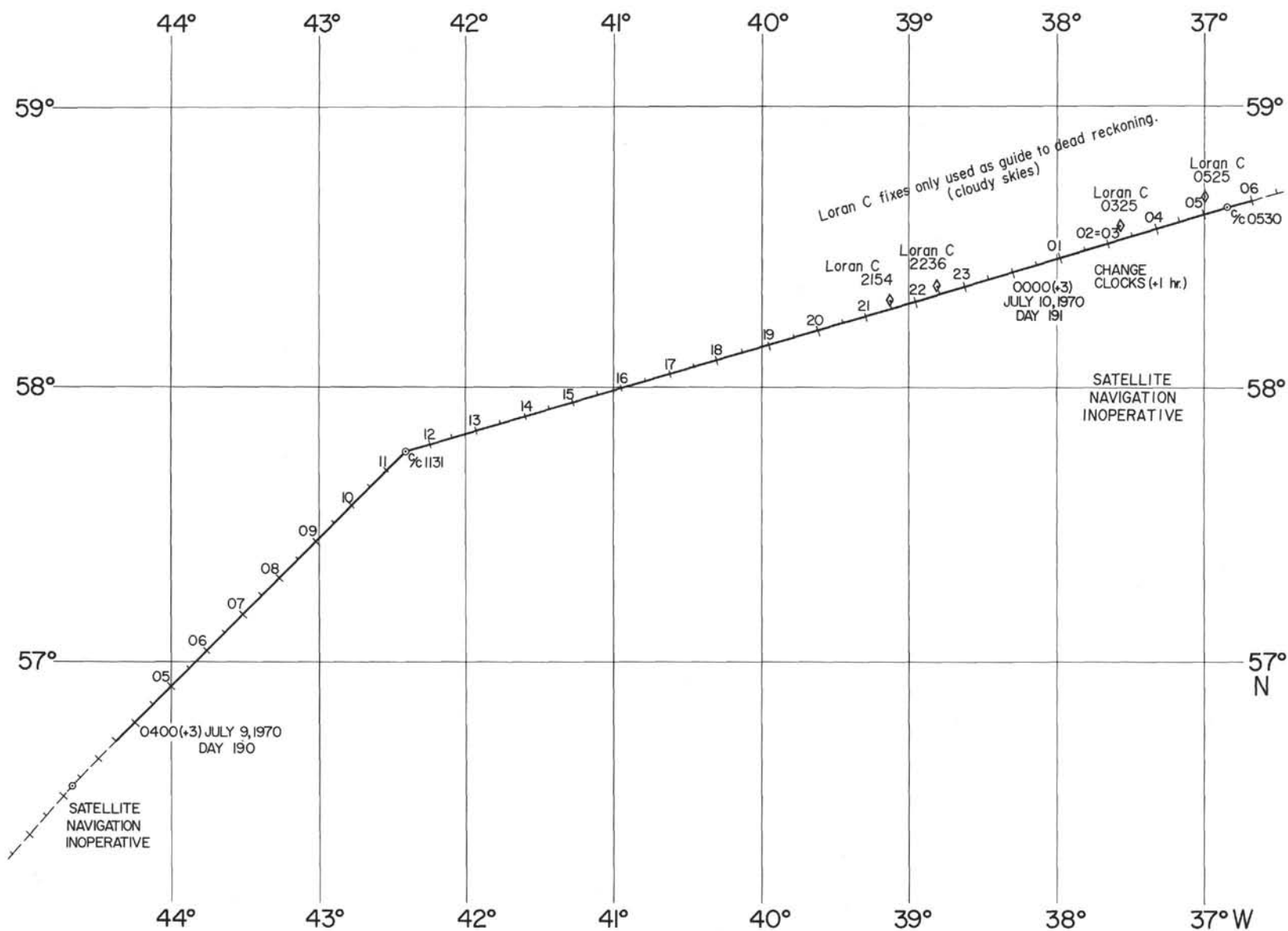
NORTHWEST ATLANTIC MID-OCEAN CANYON
PARTIAL CROSSING FULL CROSSING

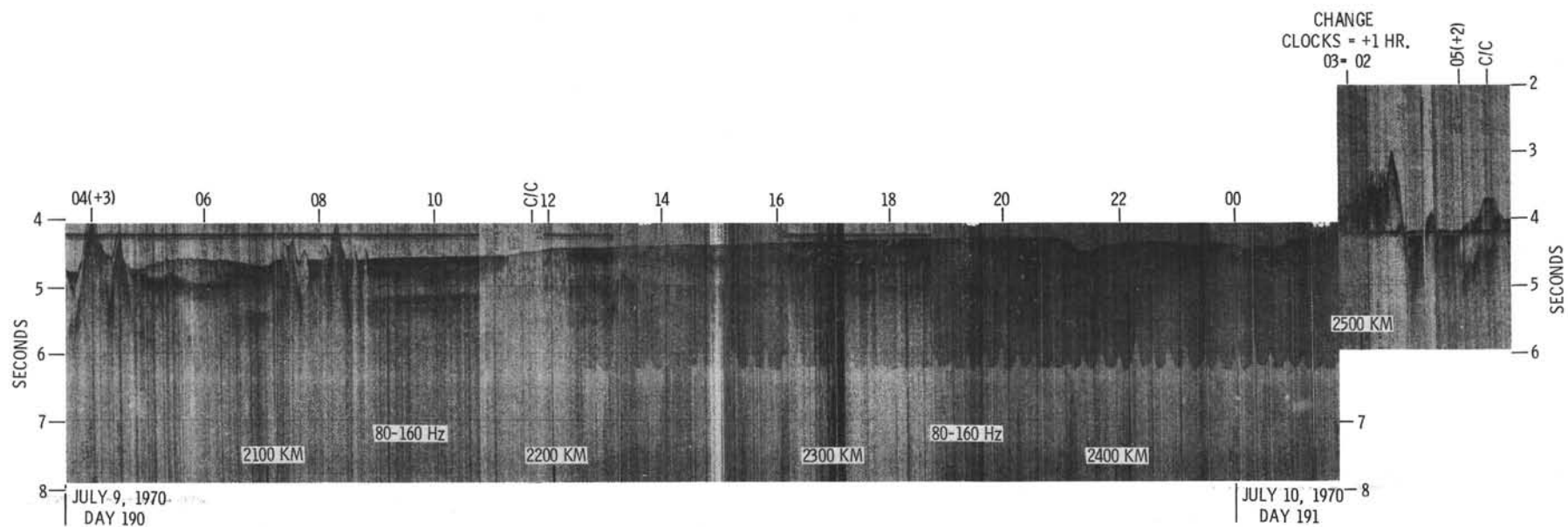
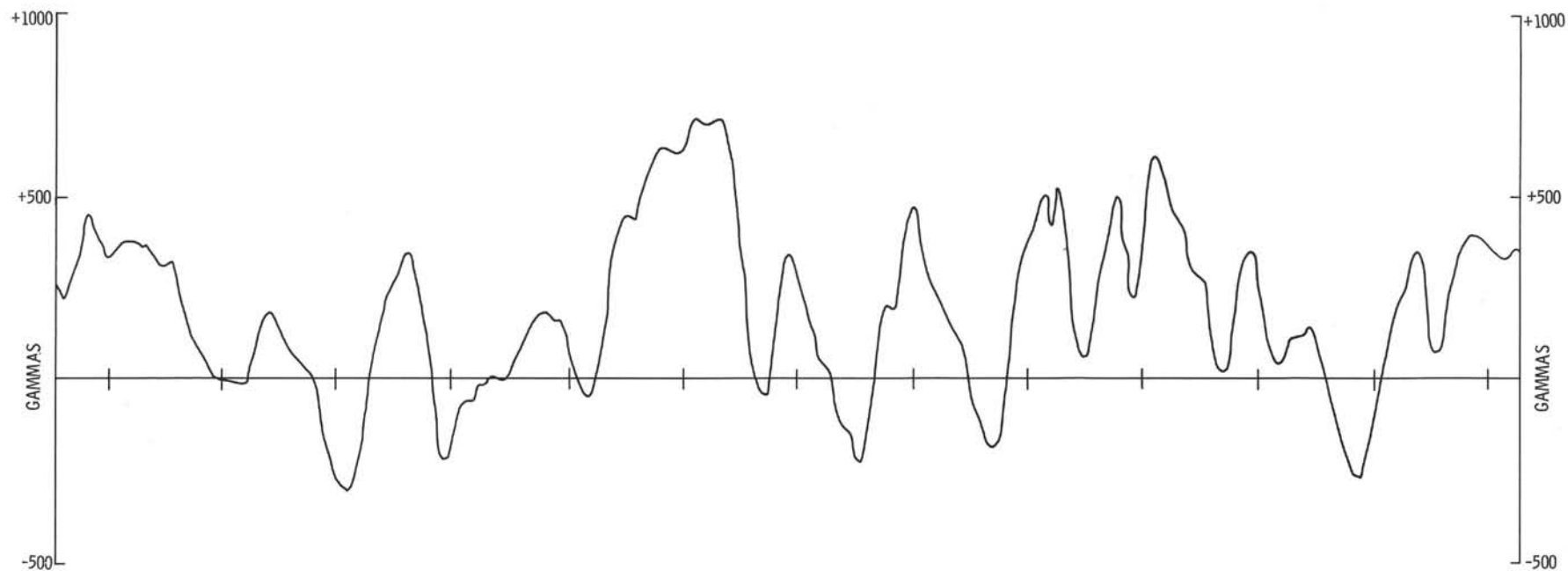


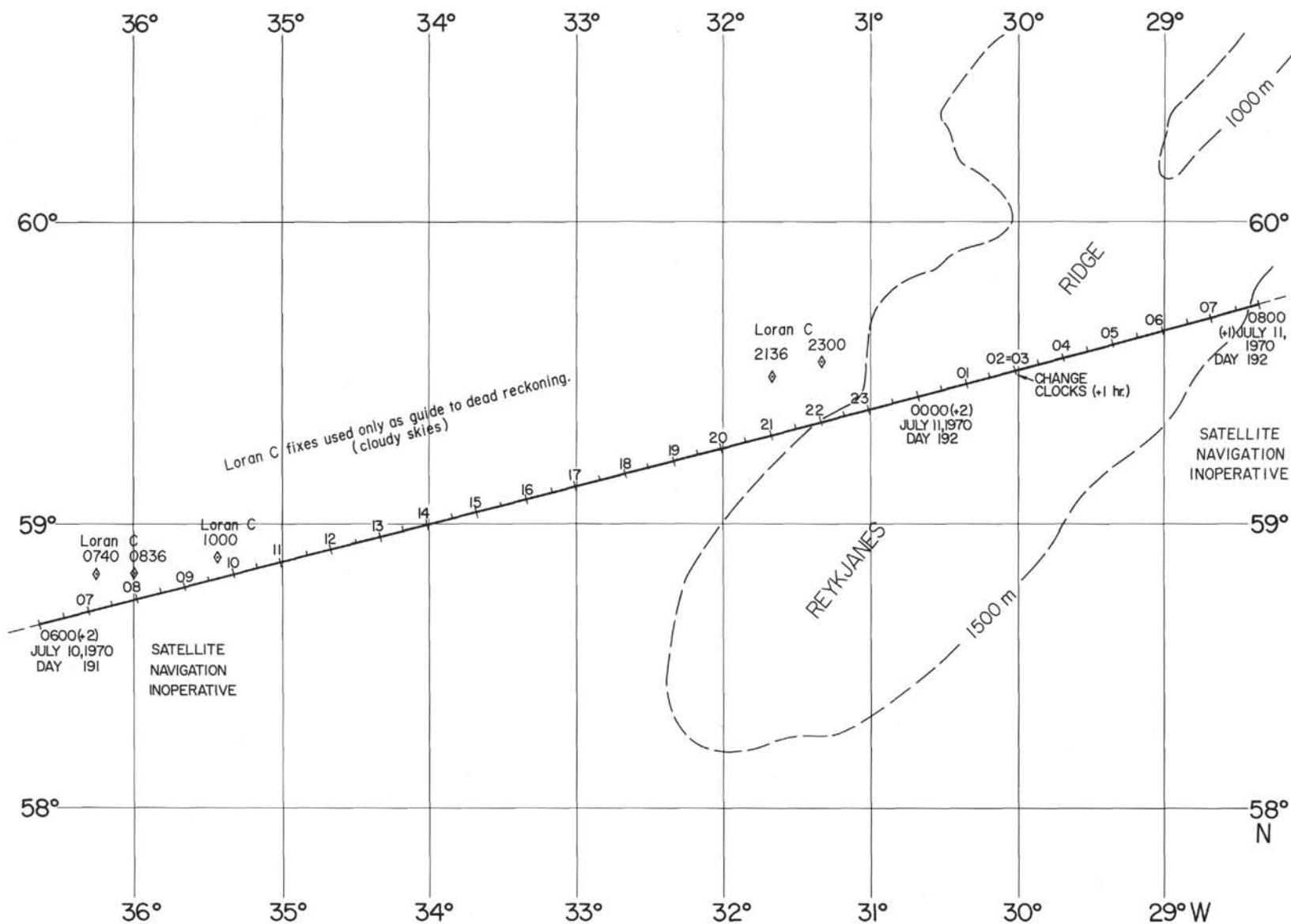


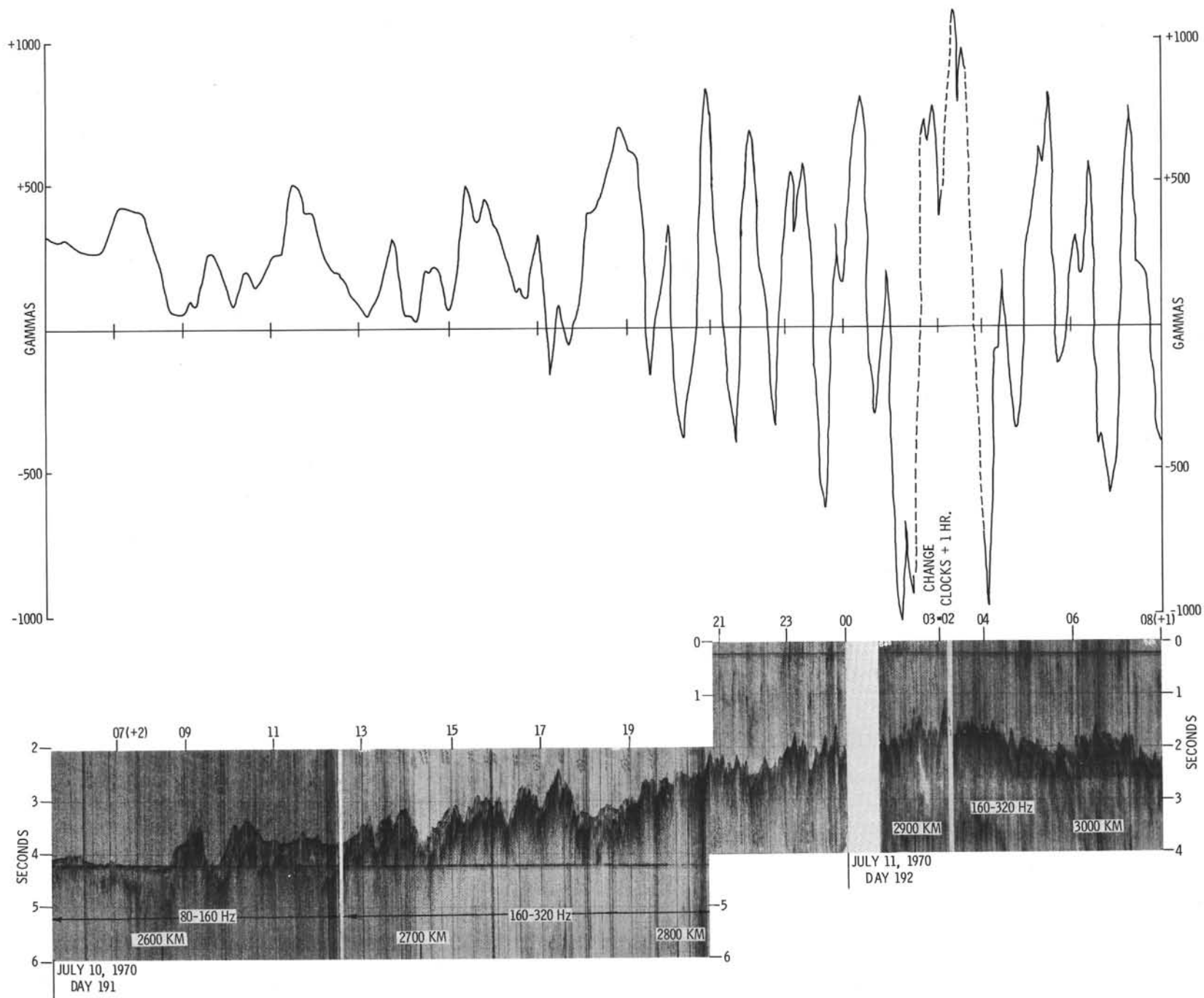


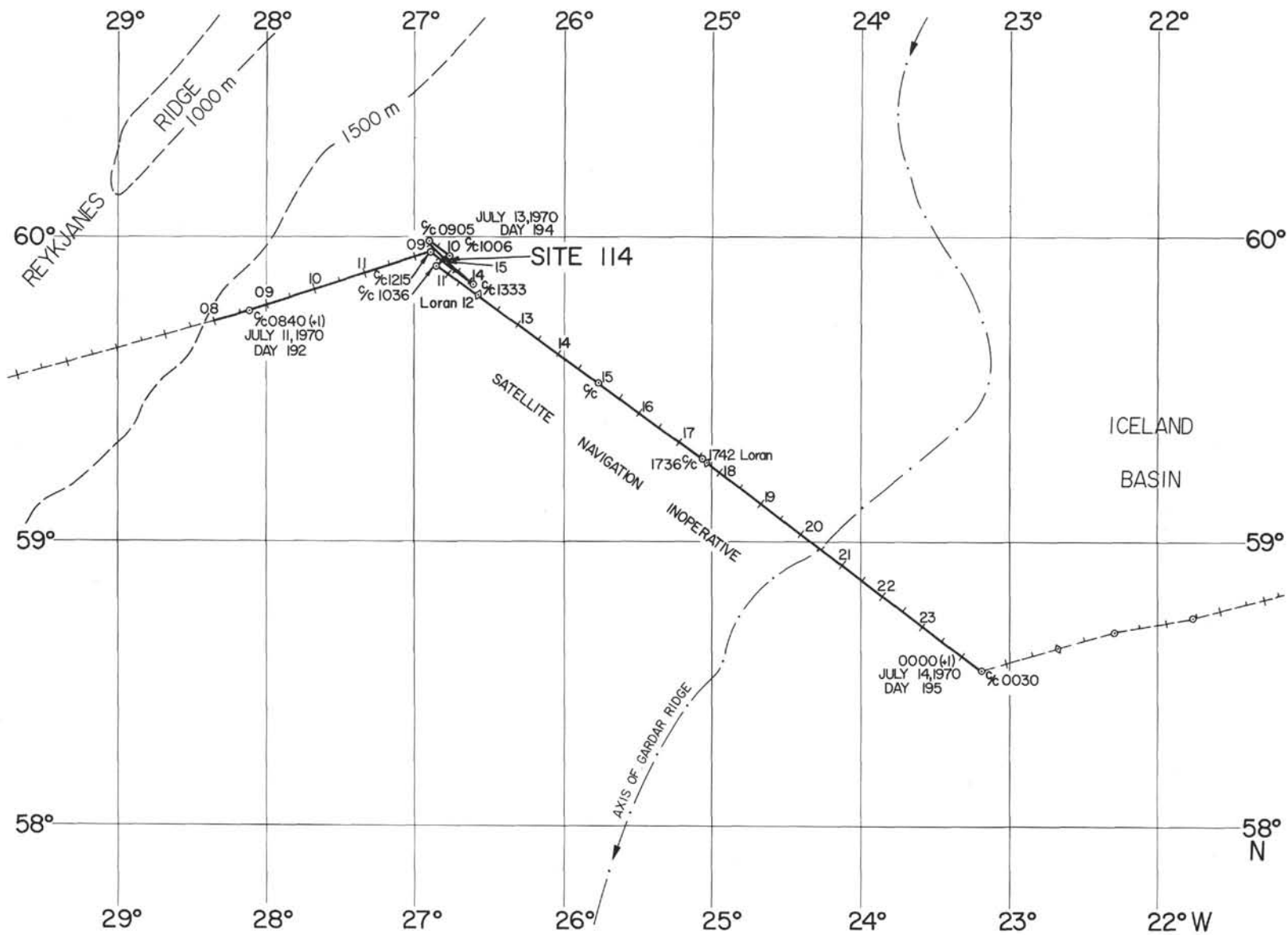


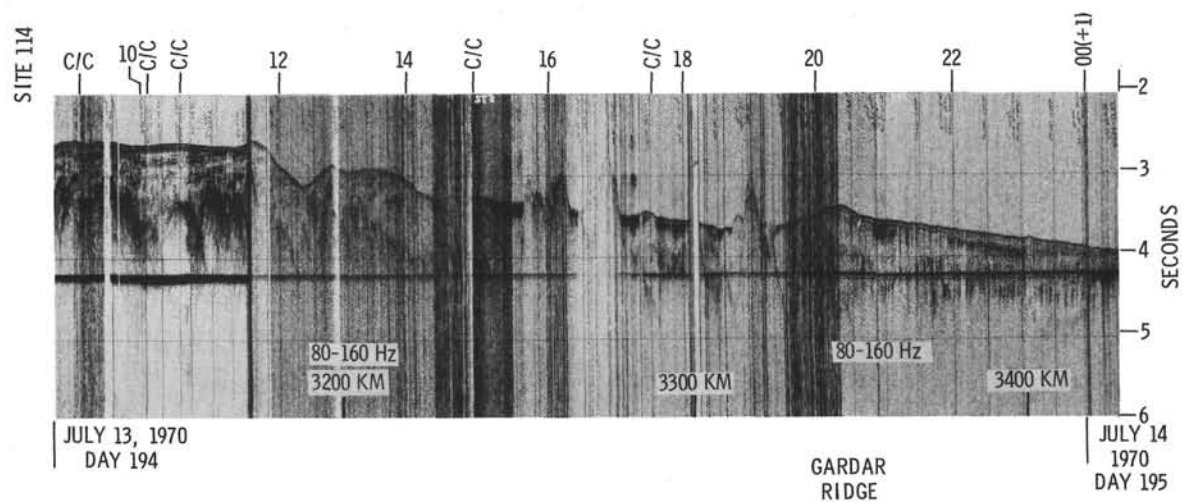
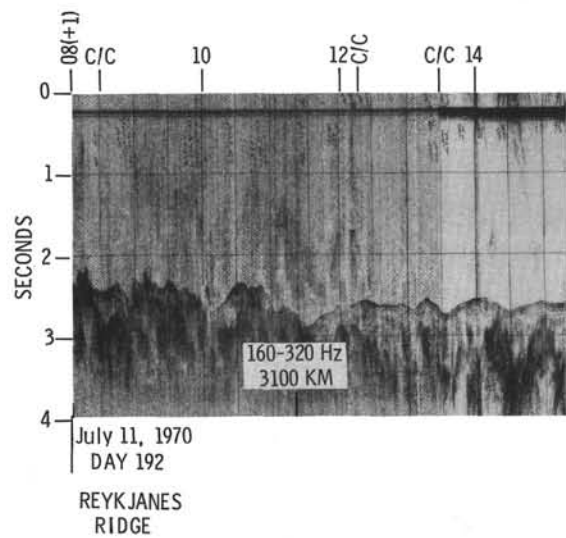
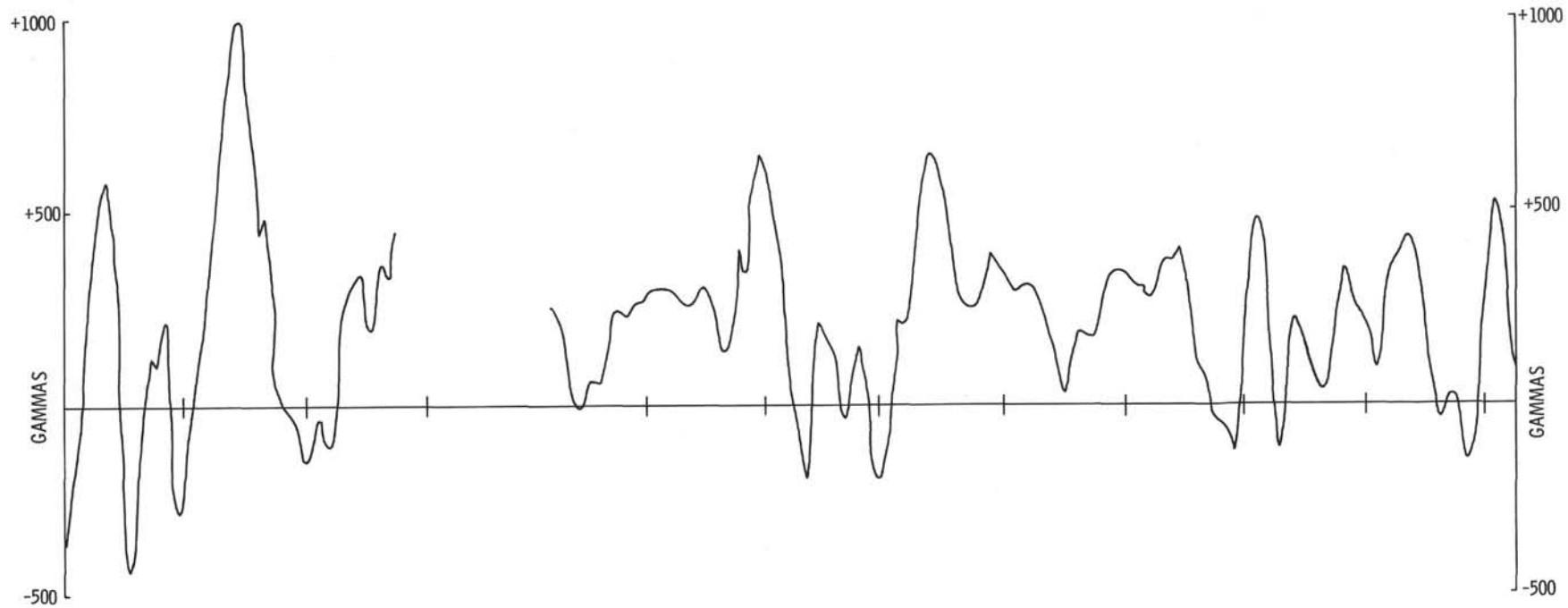


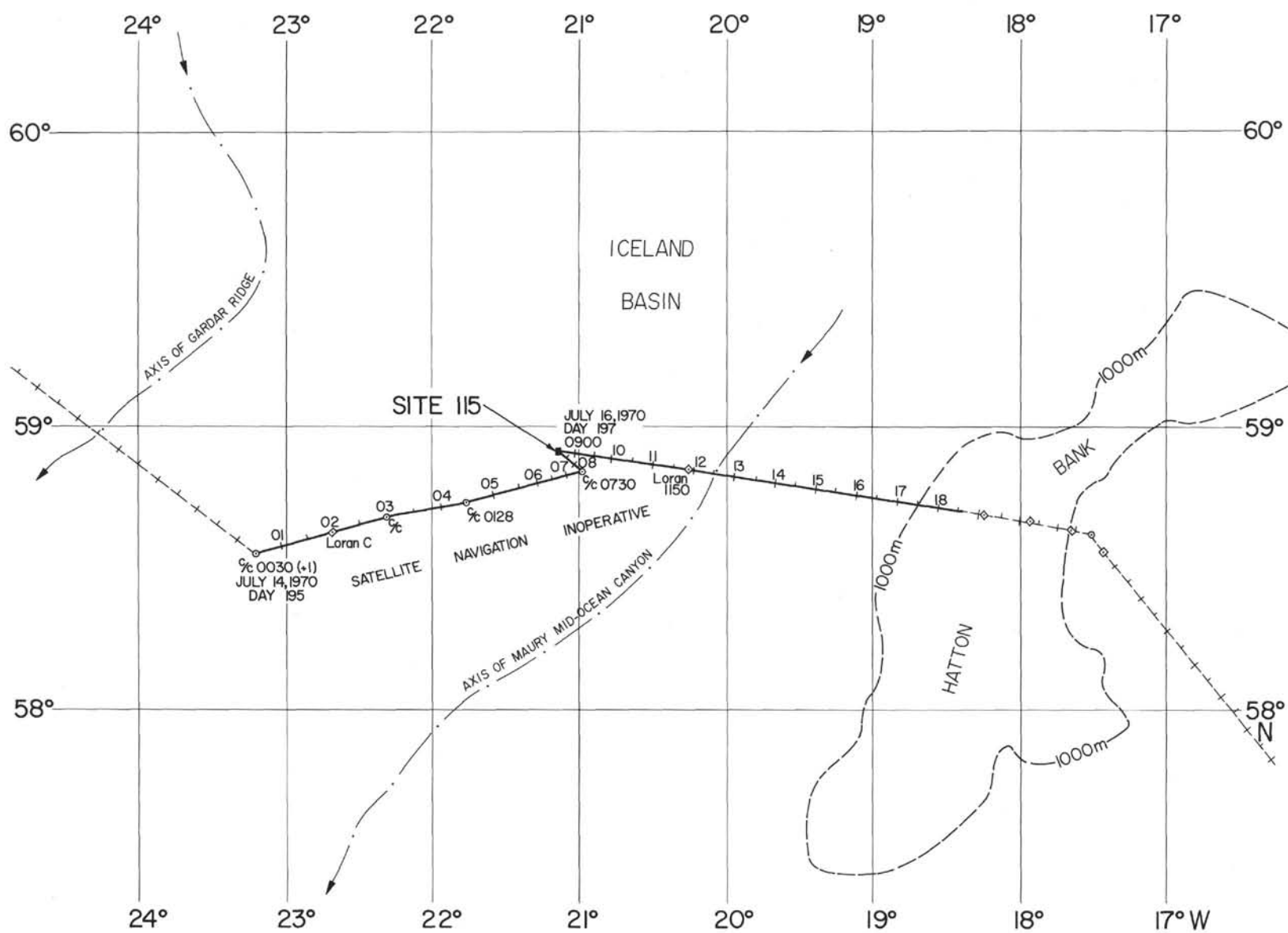


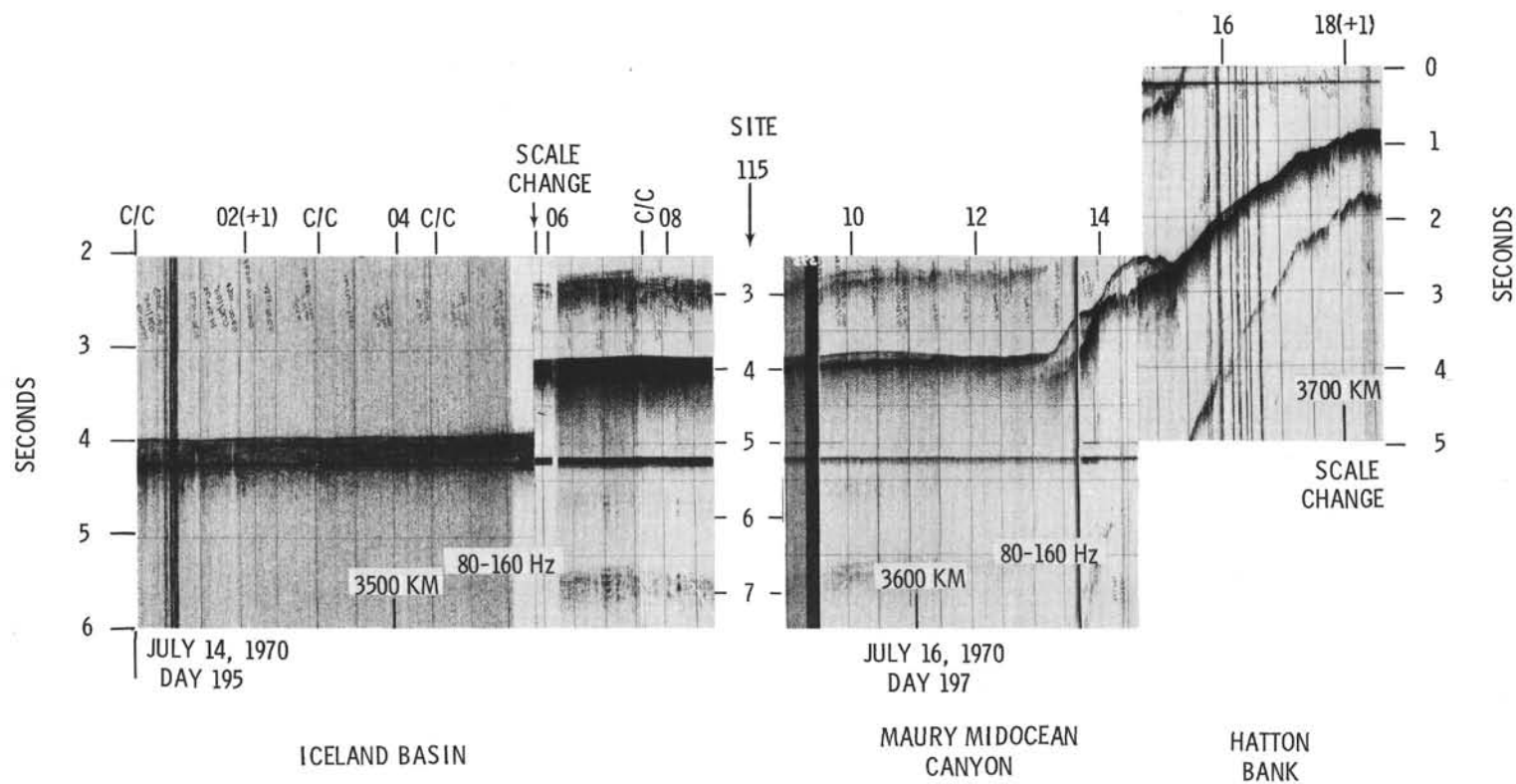
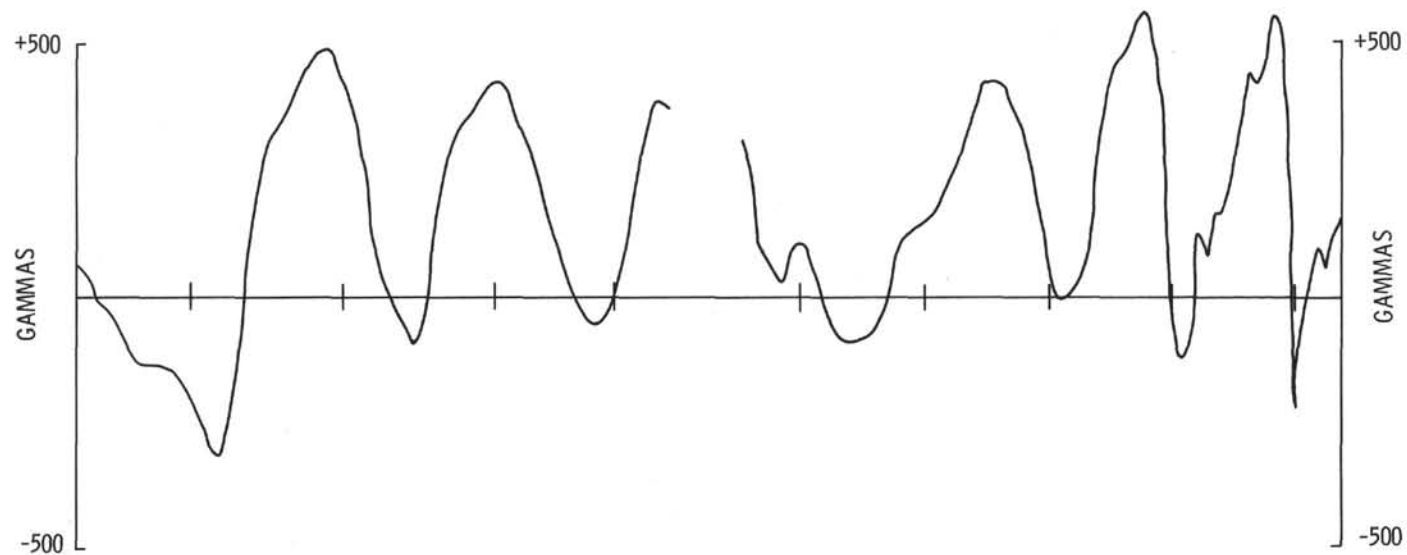


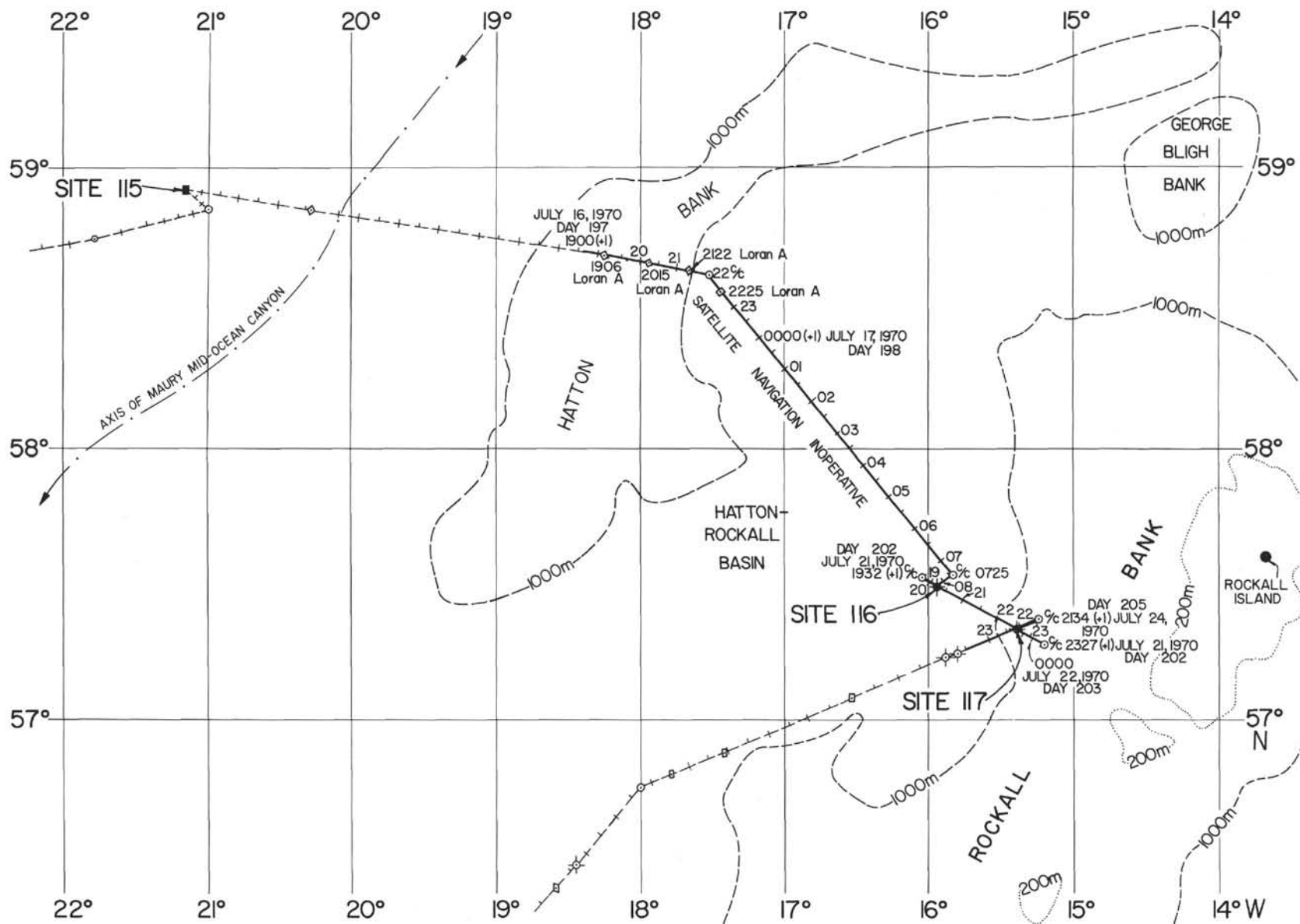


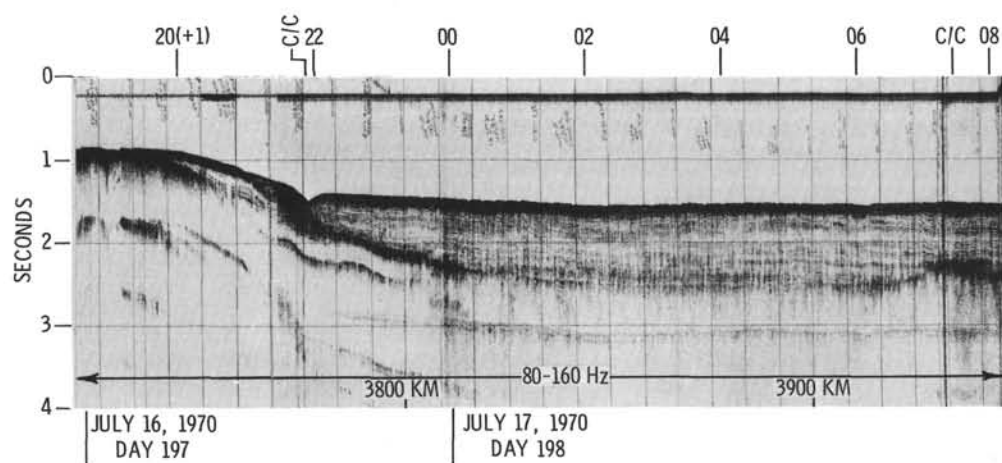
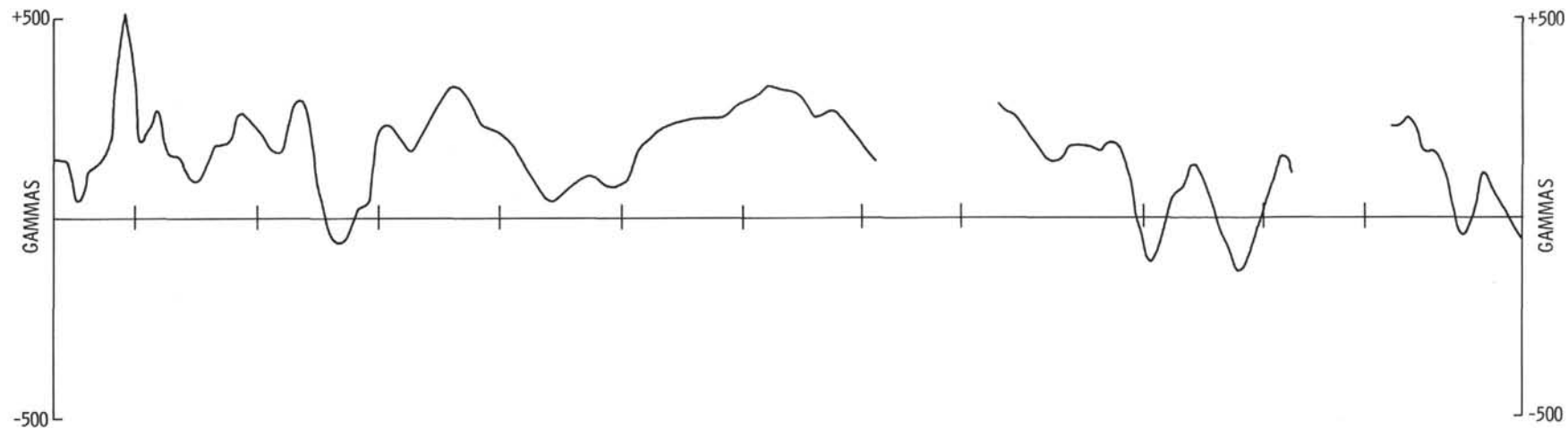






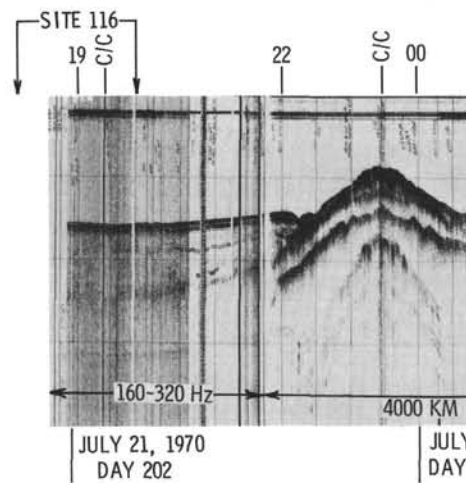






HATTON BANK

HATTON-ROCKALL BASIN



ROCKALL BANK

