

43. UNDERWAY GEOPHYSICAL MEASUREMENTS, LEG 39, DEEP SEA DRILLING PROJECT

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INTRODUCTION AND METHODS

Leg 39 underway geophysical data comprise bathymetry, magnetics, seismic reflection profiles, and navigational information. After the cruise total of 9985 miles, we collected magnetic data for 8046 miles, bathymetric data for 8056 miles, and seismic reflection profiles for 7984 miles. The generalized ship's track and Leg 39 drill sites are shown in Figure 1, and more detailed ship's positioning is shown in Figure 2 (in 5 parts). Recording was continuous between sites, except for periods of equipment downtime and within the 200-mile territorial limit claimed by Brazil. Data were collected at full ship's speed, generally between 9 and 10 knots. Data were collected at slower speed only in the vicinity of drill sites; these detailed records are shown in the Site Report chapters of this volume. The data were collected by the marine technicians of the Deep Sea Drilling Project, under the direction of the Laboratory Officer, Mr. Michael Lehman. After the cruise, data were computer-processed by S.M. Smith, U. Albright, J. Newell, and M. Ward of the Scripps Institution of Oceanography Geological Data Center; G. Psaropoulos and R. Lingley edited the depth and magnetic data, and the navigation data was edited by M. Lehman and L. Henry. For information on the availability of additional or more detailed data, contact Ms. Barbara Long, Scientific Information Facility, Deep Sea Drilling Project, La Jolla, California 92037. This chapter is basically a data presentation. A minimal interpretation is offered, comprising a short narrative and line interpretations of selected profiler sections, drawn by L.R. Merklin.

Data collection and processing methods used on Leg 39 are as follows:

Navigation: Satellite fixes and course and speed changes were encoded aboard *Glomar Challenger* from data given in the underway geophysical log. The data were keypunched on shore and put through a navigation smoothing program, edited on the basis of reasonable ship and drift velocities and a deck of corrected navigation points punched out for later merging with the depth and magnetic data. Appendix A contains data on time, position, satellite fix, and drift velocity data, and course and speed changes.

Magnetics: The magnetics, scaled from analog records produced on the Varian Magnetometer, towed 200-300 meters behind the ship, were recorded (in gammas) in the underway geophysical log book at five-

minute intervals. The magnetics were keypunched on shore, put through a profile program, and edited by comparison with the original analog records. The regional field was removed using the 1965 International Geomagnetic Reference Field. The residual field in gammas is plotted as a function of total distance along ship's track in Appendix B, a through o. More detailed plots, with data points at about one mile spacing, are available.

Depth: The depths, scaled from the fathograms (800 fm/sec calibrated sound velocity, or 1.463 km/sec), were recorded at sea in the underway geophysical log book at five-minute intervals. The depths were keypunched on shore and edited in the same fashion as the magnetics. Bathymetric profiles are shown in Appendix B, a-o, as a function of total distance along ship's track. More detailed data plots are available, with data points at about one mile spacing, plotted at 4 inches per degree with standard B.C. series boundaries of the U.S. Naval Oceanographic Office.

Seismic Profiles: Seismic profiling was done by using Bolt PAR airguns as sound sources. Two airguns of 5 and 40 cubic inch capacity were firing together. Two separate and simultaneous recordings were made. EDO recorder #1 was set for a 10-second sweep, and was generally set to a bandpass frequency of 80 to 320 Hz. EDO #2 was set for a 5-second sweep at a filter setting of 80 to 160 Hz. Appendix C is a continuous photographic record of the EDO #1 record for the entire cruise. To conserve space, EDO #2 records are not shown, owing to the extreme length of the Leg 39 cruise track). The records are annotated with site locations, date, and hours in Greenwich Mean Time, seconds of two-way reflection time, and course changes greater than 5°. Those sections of the total cruise track represented by seismic profiles are indicated by black bars under the magnetic and bathymetric plots of Appendix B.

Noise Reduction Experiment

During the first half of Leg 39, we attempted to decrease the acoustic noise of the *Glomar Challenger* streamers by moving the streamers out of the ship's turbulent wake. For the experiment, we used a longer boom of 10 meters' length, instead of the usual 3 meter boom (Figure 3). The average noise was measured visually on an oscilloscope (Type 453) in different frequency bands. Results are given in Table 1 and Figure 4.

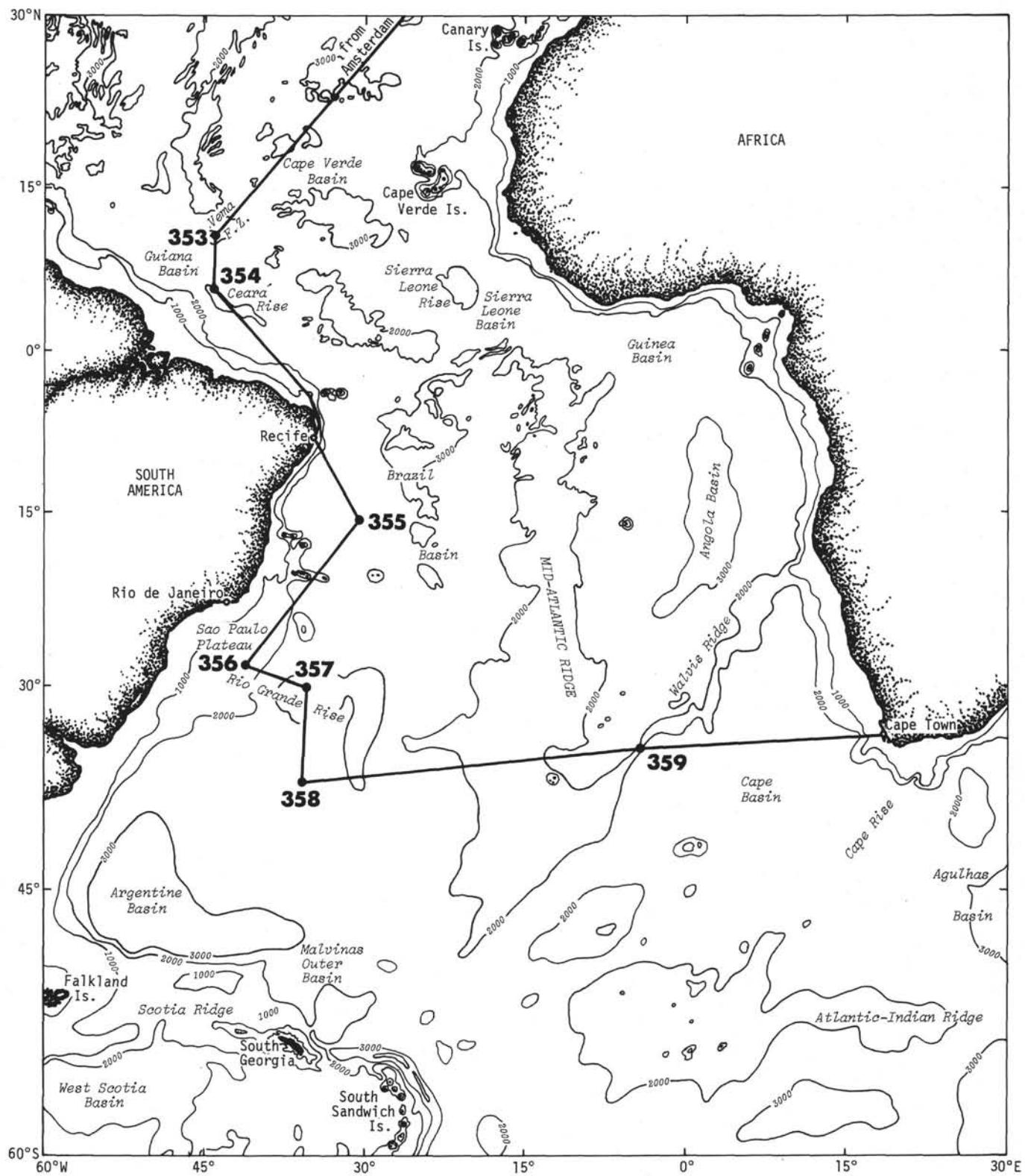


Figure 1. Leg 39 cruise track of the Glomar Challenger, showing drill sites.

We conclude from this experiment that the use of a longer boom results in a decrease of streamer noise by a factor 1.5 to 2.0. We suggest that the use of a longer towing boom (about 10 m) for hydrophone streamers be considered for future cruises of *Glomar Challenger*.

NARRATIVE

Amsterdam to Vema Fracture Zone (Site 353)

This section profile is in a long straight line, in a southwest direction, from the Biscay Basin down to the

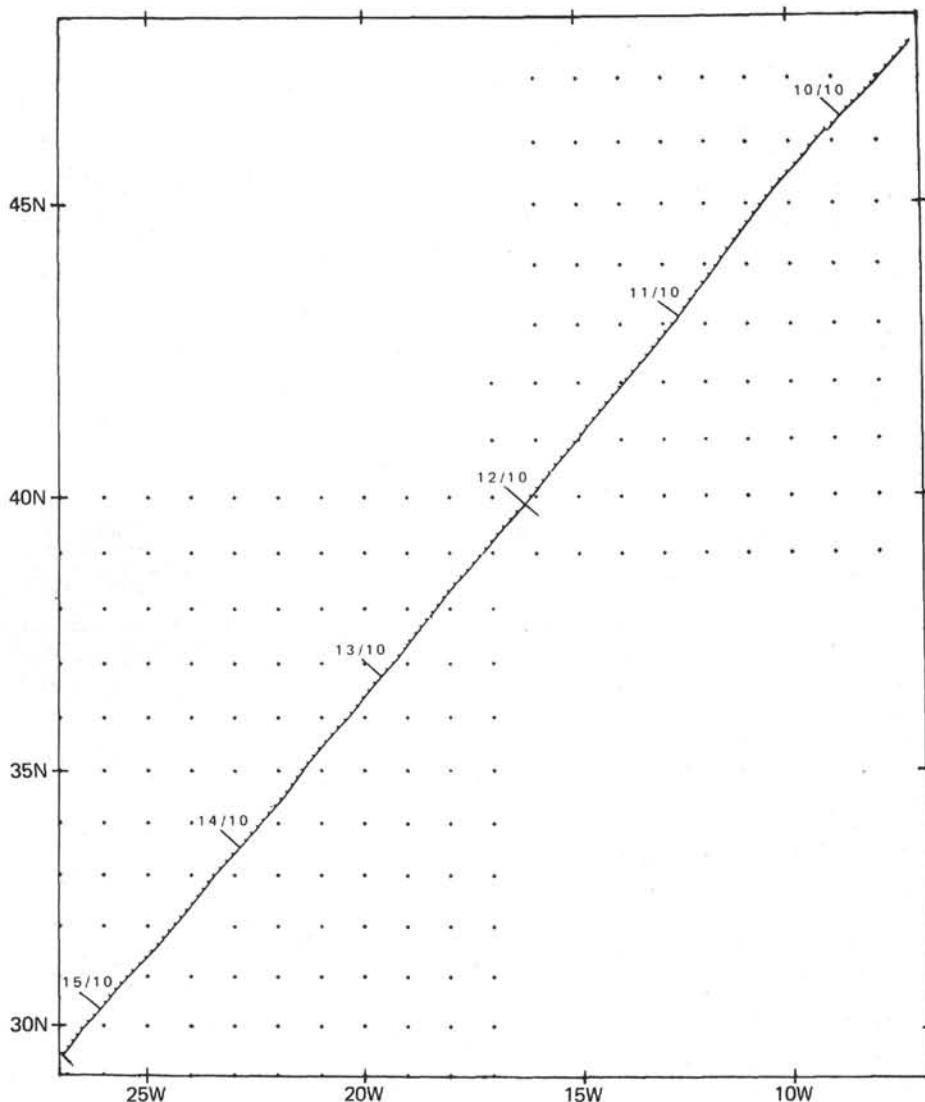


Figure 2. Detailed cruise track of D/V Glomar Challenger, Leg 39. For further detail, see Appendix A, Navigation Data.

Vema Fracture Zone of the Mid-Atlantic Ridge, and crosses the Iberian and Canary basins.

Biscay Basin

On the basis of previous data (Ewing et al., 1973), the thickness of sediments in this area varies from 2 to 4 km. Because of slight penetration, the *Glomar Challenger* profile shows only the upper part of the sediment section. The upper sediment layers are characteristically horizontal.

Iberian Basin

This basin is separated from the Biscay Basin by a high of the acoustic basement, which is reflected in both the bottom relief (depth difference about 1600 m) and in the magnetic field (anomaly about 400 gammas). The northern part of the basin has a flat bottom, with small highs of the acoustic basement. The sediment cover has an average thickness of 400 to 500 meters, and consists of horizontally layered sediments (Ewing et al., 1973). In the central and southern parts of the basin are

numerous underwater mountains with topographic expression of 1 to 3 km. The thickness of sediment decreases to 100 to 300 meters in the south. The acoustic basement underlying the sediments is very rough, as is typical of oceanic basement under abyssal plains.

Canary Basin

The Iberian and Canary basins are separated by a high of bottom relief reaching 2.5 km. The bathymetric profile in the Canary Basin consists of alternating flat plains and mountains 500 to 1500 meters high. The sediment cover of the northern part of the basin is 400 to 600 meters thick, and is well stratified. The surface of the acoustic basement is very rough, and basement reaches the sea floor in some places. Because of bad seismic records, detection of acoustic basement is very difficult in the central part of the basin.

Eastern Flank of the Mid-Atlantic Ridge

The boundary between the Canary Basin and the ridge is readily apparent in the bottom relief. Sediments

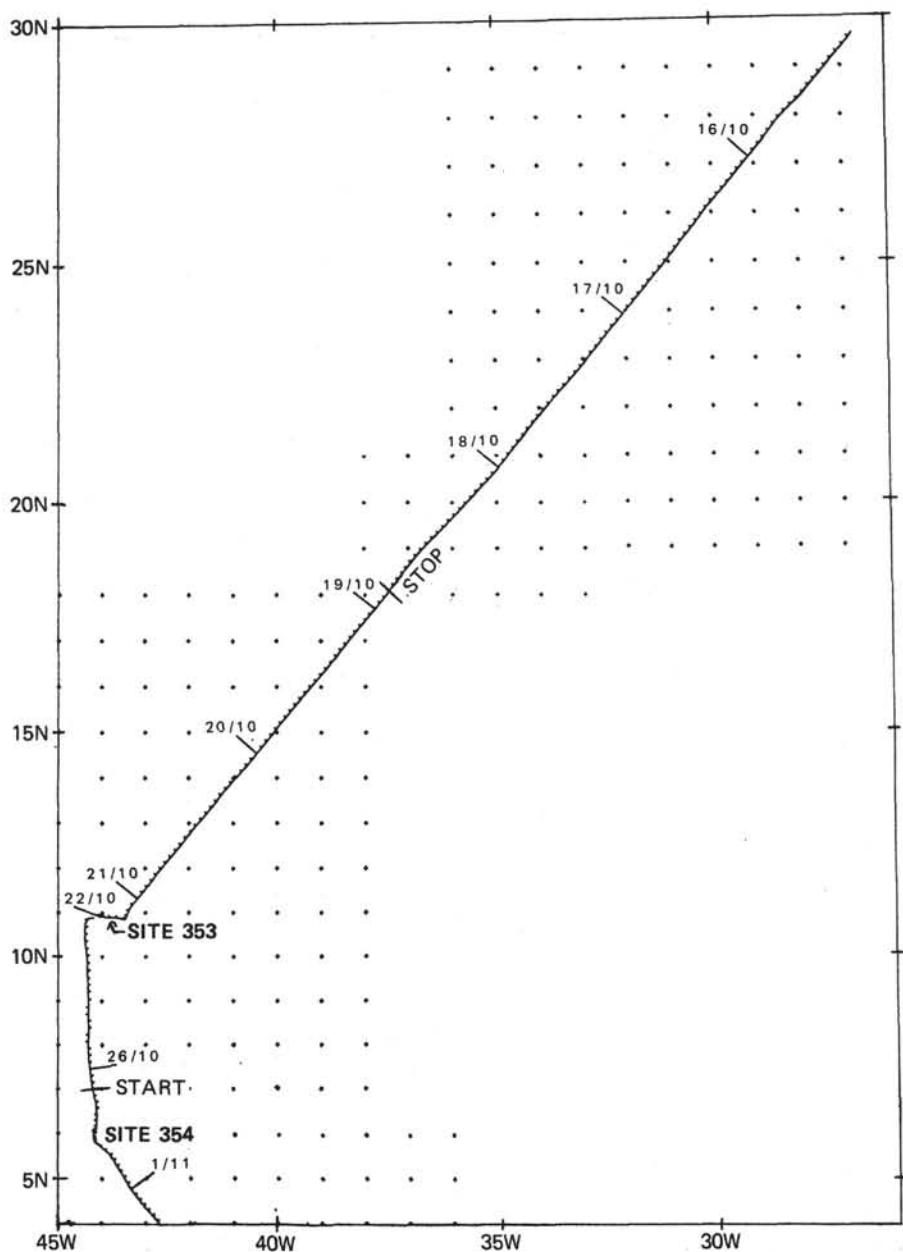


Figure 2. (Continued).

fill in the pockets between basement peaks; their thickness is 100 to 150 meters.

Vema Fracture Zone (Site 353)

The valley of the transform fracture has a V shape, with very steep slopes. Sediment thickness exceeds 1 km; most sediments are turbidite (see Site 353 chapter, this volume). A sharp basement high is situated in the central part of the valley, and locally reaches the sediment surface (see left side of Figure 5).

Vema Fracture Zone—Ceará Rise (Site 353—Site 354)

This profile crosses the Demerara Abyssal Plain and the northwest slope of the Ceará Rise (Figure 5).

Demerara Abyssal Plain

The bottom topography of the abyssal plain is rather flat, with only a few highs of acoustic basement to

within 500 meters of the sediment surface. The sediments consist of two layers. The upper well-stratified layer is 400 to 500 meters thick (in the south to 700 m); thickness decreases on the Ceará Rise. Thickness of the lower transparent layer is unknown, because the acoustic basement does not appear on the records.

Ceará Rise

The seismic records on the Ceará Rise show about 900 meters of sediments above acoustic basement. According to the drilling results at Site 354, they are Pleistocene to Upper Cretaceous calcareous ooze and chalk underlain by basalt. The seismic records at Site 354 show several reflectors which correlate very well with lithological boundaries in the sediment section. The acoustical basement reflector may correspond to a chert layer immediately above the basalt basement.

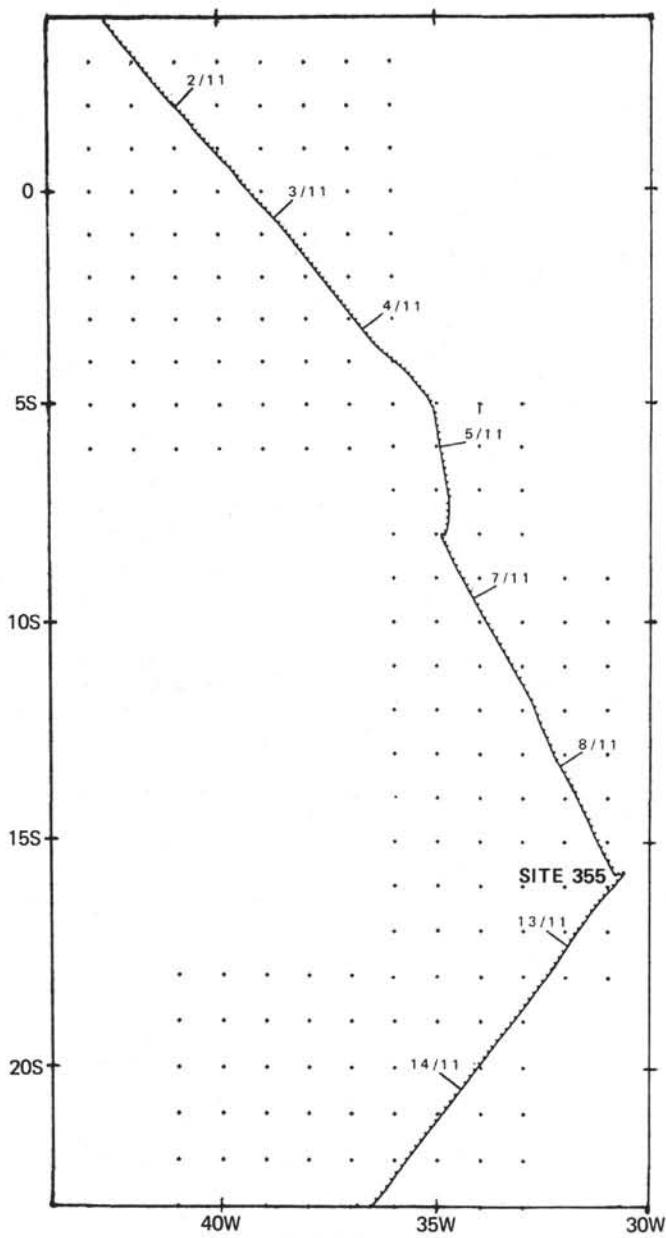


Figure 2. (Continued).

Ceará Rise (Site 354)—Recife (Figure 6)

To the southeast from Site 354, the seismic records show several highs of acoustic basement, with amplitudes of 200 to 600 meters. Sediments of this part of the Ceará Rise consist of two layers: 200 to 300 meters of stratified sediments and 600 to 800 meters of transparent sediments. Thickness of sediments in the Ceará Abyssal Plain reaches 1.5 km. Acoustic basement is very rough, especially in the central part of the basin.

Recife—Brazil Basin (Site 355)

The profile here crosses the western part of the Brazil Plateau. On the northwest end, the profile shows a mountain about 2500 meters high. The surface of the mountain is very rough; a few lower valleys are filled with sediments 100 to 500 meters thick. The sediment thickness sharply increases to 1000 meters near the

eastern foot of the mountain. Along the profile, the bottom topography is flat; the sediments reach thicknesses of 700 to 1000 meters, and are acoustically transparent. Individual highs of acoustic basement rise close to the sea floor, but are not mirrored by the sediment surface. It is possible that the smooth surface of the acoustic basement corresponds to consolidated Tertiary sediments filling lows in the oceanic basalt basement (Edgar, 1974).

Near the center of this section of the record is a broad shoaling of acoustic basement, with a single outcrop on the sea floor. This outcrop is delineated on the north by a steep fault, which is clearly evident in the magnetic field (anomaly about -500 gammas). In the south, the boundary of the rise is not so clear and is not apparent in the magnetic field. The basement surface is very rough, especially in the northern and southern parts of the rise. Near the fault, the sediments are offset, and decrease in thickness to 300 to 400 meters. To the south, the thickness again increases to 600 to 700 meters.

At Site 355, the sediments consist of Pleistocene to Campanian clay, claystone, mudstone, and nannofossil ooze, underlain by basalt at a depth of 448 meters; the basalt correlates with acoustic basement.

Brazil Basin (Site 355)—São Paulo Plateau (Site 356)

The profile record to the southwest crosses the big submarine Davis Mountain (minimum depth about 34 m).

The sea floor along the entire section of the profile is weak, wavy, and almost horizontal. To the north of the mountain, the record shows a strong reflector overlain by 400 to 600 meters of transparent sediments. Deeper reflectors may be seen at several intervals along the profile; thus the strong reflector is not true basement.

Between Davis Mountain and the scarp of the São Paulo Plateau, the acoustic basement is not visible at all places. The thickness of overlying transparent sediments varies from 400 to 900 meters. Near the foot of the plateau, we crossed two underwater mountains, with reliefs to 2000 meters. The sediments between these mountains are strongly offset, and are about 1100 to 1200 meters thick.

The sediments on the São Paulo Plateau are deformed at many places. The acoustic basement is at best patchy on the record; the complete thickness of sediments locally reaches 1000 to 1200 meters. Diapir-type structures are visible in the São Paulo Plateau sediments.

Sediments at Site 356 consist of Pleistocene to Albian ooze, chalk, mudstone, and limestone. The hole penetrated 741 meters and did not reach igneous basement. The lowest reflector correlates well with the top of the Albian dolomitic marly limestones (see Site 356 report, this volume).

São Paulo Plateau (Site 356)—Rio Grande Rise (Site 357)

The São Paulo Plateau has a steep eastern slope with about 1500 meters relief. A wide valley, which may be erosional, occurs near the foot of the slope. The strong

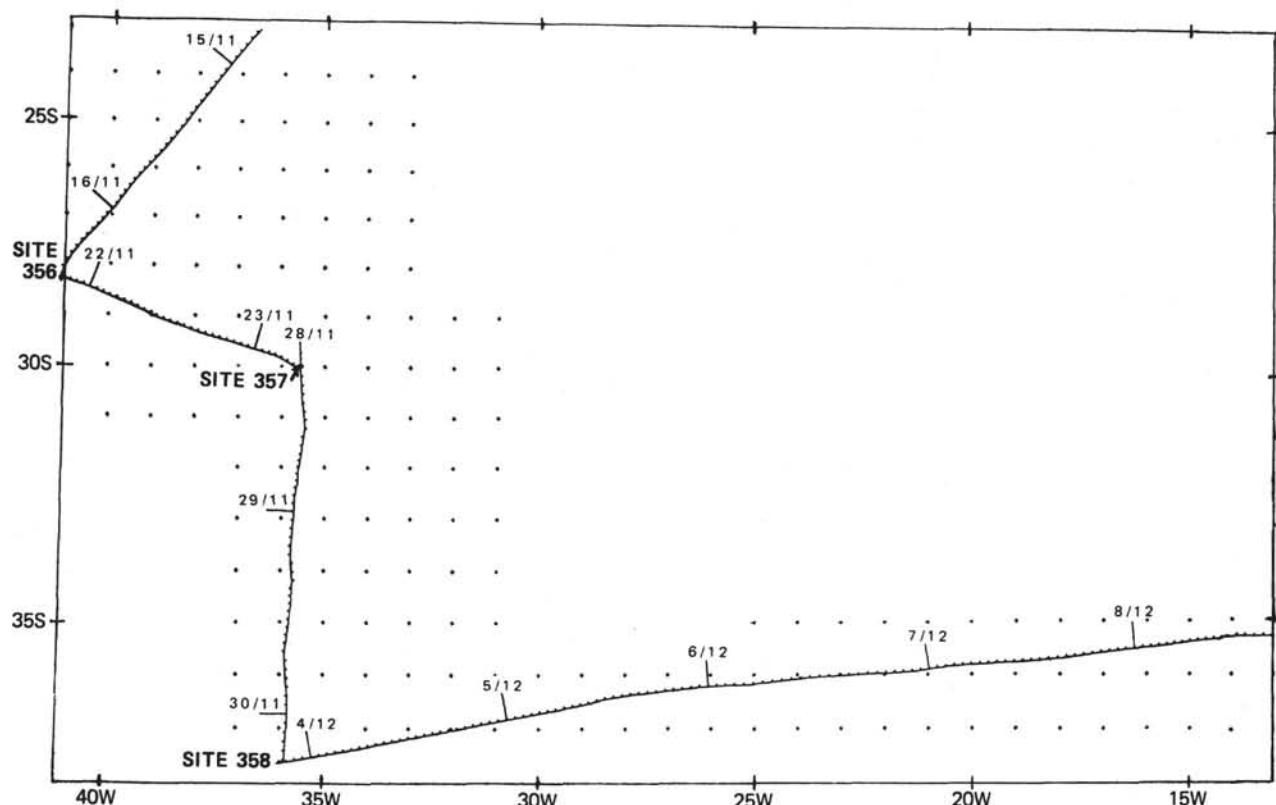


Figure 2. (Continued).

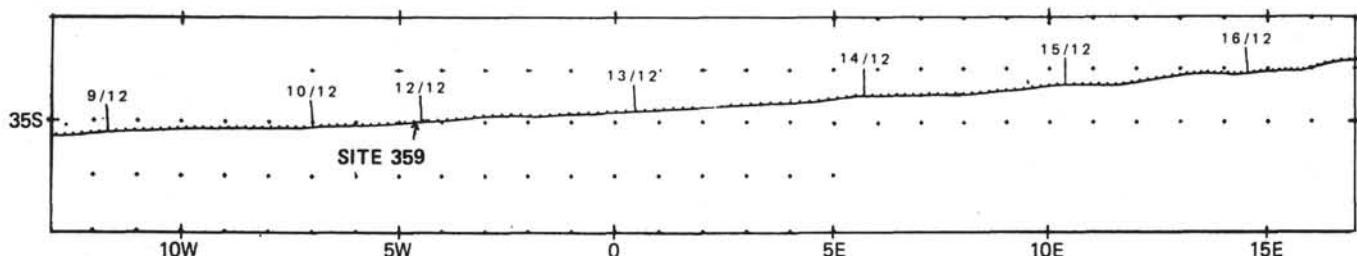


Figure 2. (Continued).

reflector is at about 600 meters; total sediment thickness is 1200 meters. The same valley, but more extreme, is also visible in the central part of the profile. It has an asymmetric form with a steeper eastern slope. A fairly continuous clear reflector occurs at 700 to 1200 meters along the entire profile. The deeper reflectors are visible inside the valley and to the east, at depths of 800 to 1100 and 1500 meters below the sea floor. The sediment thickness decreases gradually to 300 to 400 meters in the vicinity of the Rio Grande Rise.

At Site 357 on the northern flank of the Rio Grande Rise, we cored 797 meters of Pleistocene to Santonian ooze, chalk, and limestone. The strong reflector which was originally assumed to be igneous basement correlates well with the top of the Santonian marly limestones.

Rio Grande Rise (Site 357)—Argentine Basin (Site 358)

This profile trends to the south, and crosses the Rio Grande Rise and the northeast flank of the Argentine Basin. The southern flank of the Rio Grande Rise has a well-stratified sedimentary cover with several good

reflectors; basement is not visible on the records. Total thickness of sediments probably exceeds 600 to 800 meters. Only a few highs of acoustic basement are visible along the slope.

The bottom topography of the abyssal Argentine Basin is weak and wavy, and slopes to the south. The sedimentary cover consists of two acoustically transparent layers divided by a strong regional reflector at a subbottom depth of 600 to 800 meters. Acoustic basement is at a subbottom depth of 1000 to 1300 meters, and is alternately flat and irregular.

Argentine Basin—Walvis Ridge (Site 359)—Cape Basin

This profile crosses, approximately along 35°S, the northeastern part of the Argentine Basin, Mid-Atlantic Ridge, Angola Basin, Walvis Ridge, and Cape Basin, and continues to the continental margin of Africa.

Argentine Basin

This area of the Argentine Basin is characterized by rough relief of acoustic basement, with many highs, outcrops, and basins. The sediments are acoustically

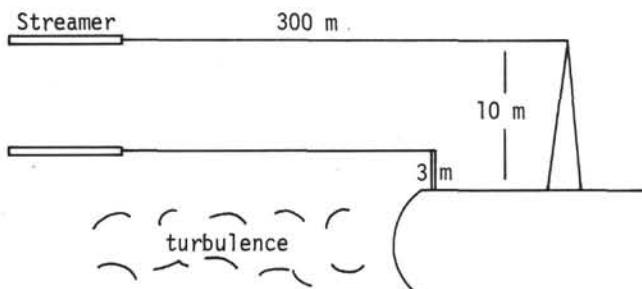


Figure 3. Proposed method of extending boom to allow hydrophone streamer array to trail ship clear of the turbulent wake.

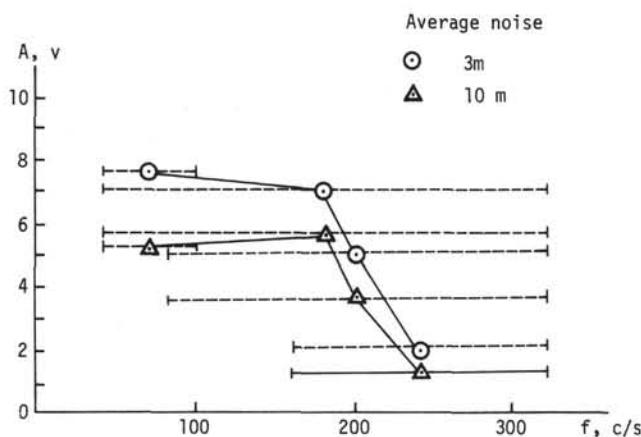


Figure 4. Plots of acoustic noise (in volts) for various frequency bands for hydrophone arrayed towed from a 3-meter and 10-meter long boom.

TABLE 1
Comparison of Acoustic Noise
Using Two Different
Boom Lengths

Frequency Band (cycles/sec)	Acoustic Noise (volts)	
	3-Meter Boom	10-Meter Boom
160-320	1.5-2.5	1.0-1.5
80-320	5.0	3.0-4.0
40-320	7.0	5.0-6.0
40-160	7.0-8.0	4.0-6.0

transparent, and thickness varies from 100 to 150 meters on the highs to 300 to 400 meters in the basins (Figure 7).

Mid-Atlantic Ridge

The boundary between the Argentine Basin and the slope of the ridge is clearly visible in the bottom relief. The surface of the ridge is practically devoid of sedimentary cover. Only small pockets of sediments are evident on the profile. (Figure 8). The ridge has a clear asymmetric form: the axial rift valley is displaced to the west. The eastern flank of the ridge passes into the southern edge of the Angola Basin, and the sediment thickness increases from 100 to 150 meters to 500 to 600 meters (Figure 9).

Angola Basin

The bottom and basement relief is very complicated. The sediments of this area are acoustically transparent, and are very offset on basement highs. Toward the

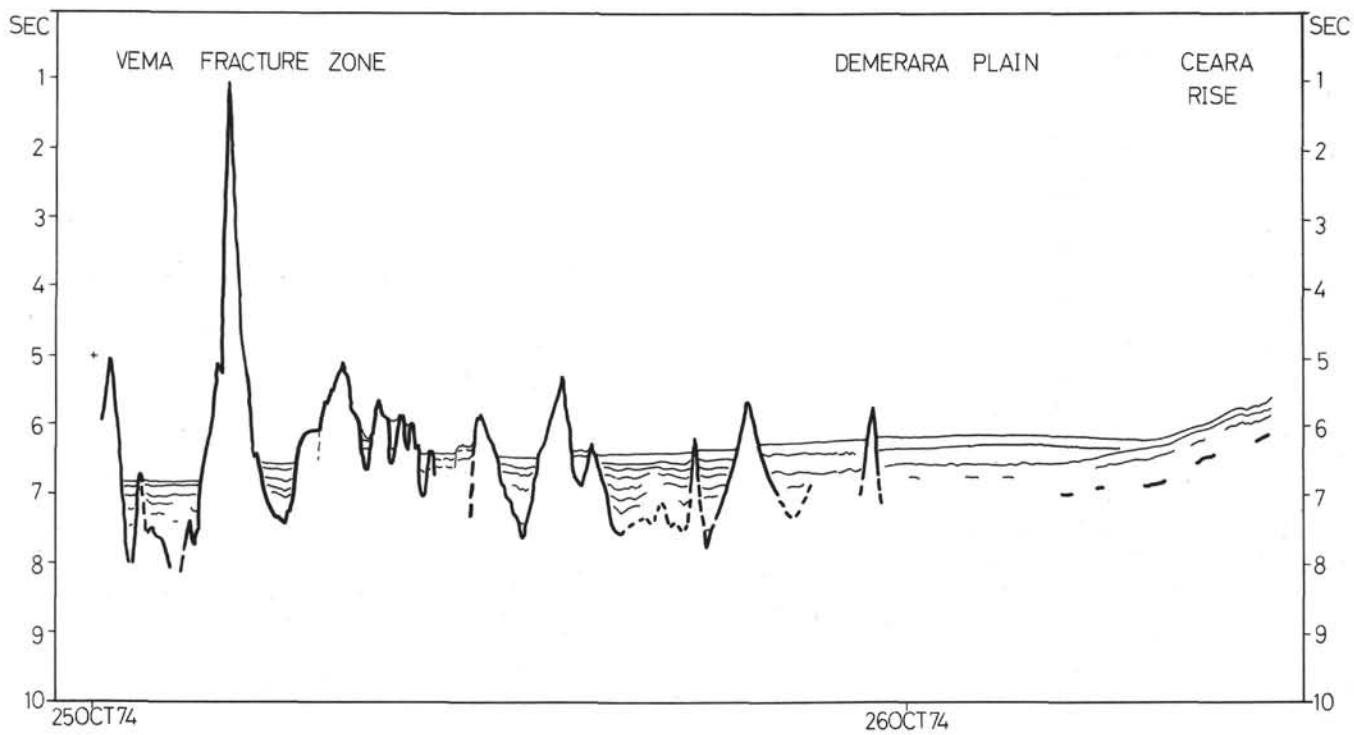


Figure 5. Line drawing interpretations of selected sections of the seismic reflection profiles shown in Appendix C. Heavy black lines indicate acoustic basement. Interpretations by L. R. Merklin.

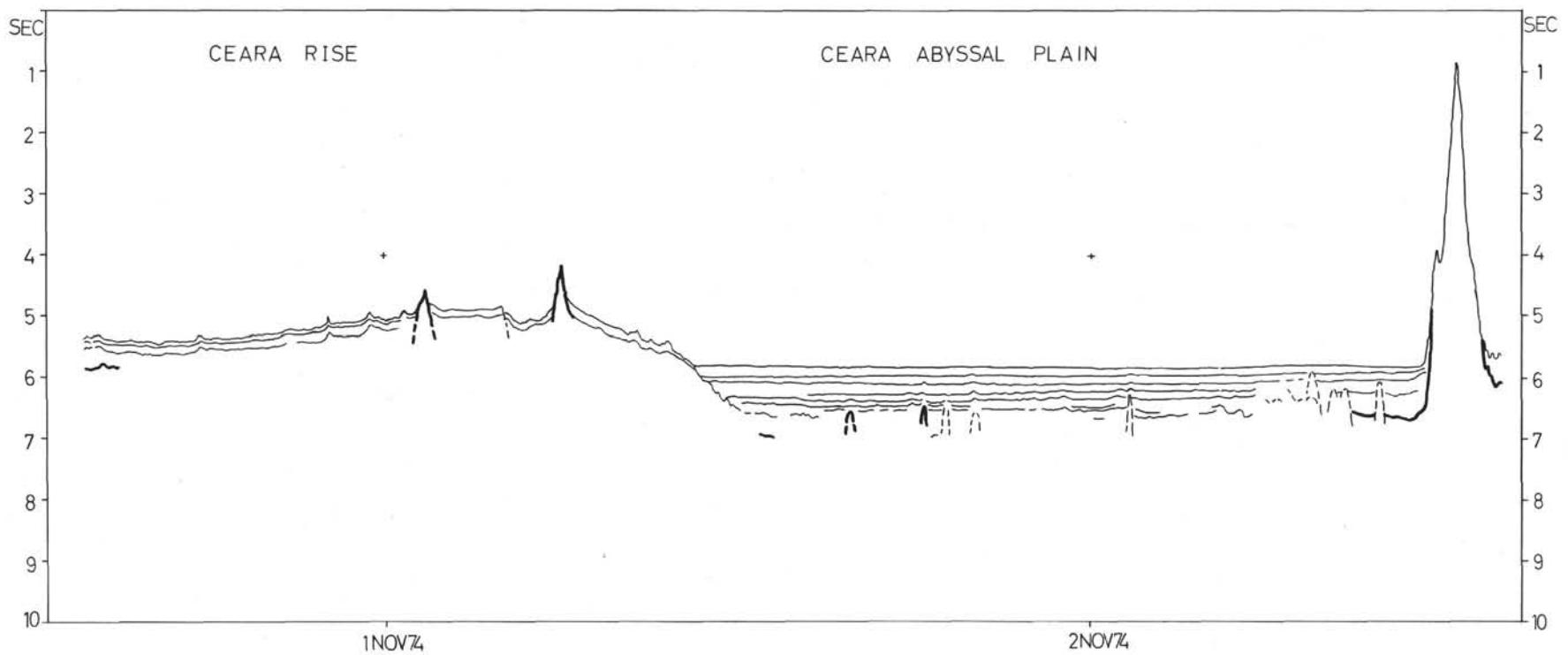


Figure 6. Line drawing interpretations of selected sections of the seismic reflection profiles shown in Appendix C. Heavy black lines indicate acoustic basement. Interpretations by L. R. Merklin.

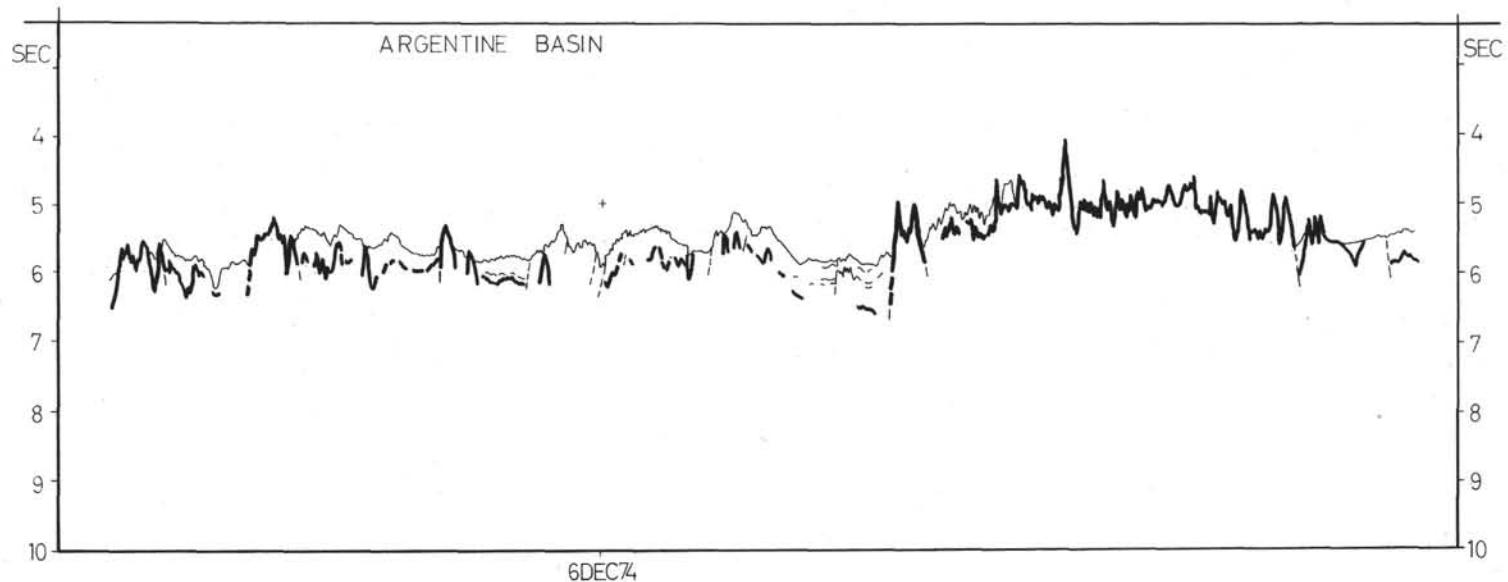


Figure 7. Line drawing interpretations of selected sections of the seismic reflection profiles shown in Appendix C. Heavy black lines indicate acoustic basement. Interpretations by L. R. Merklin.

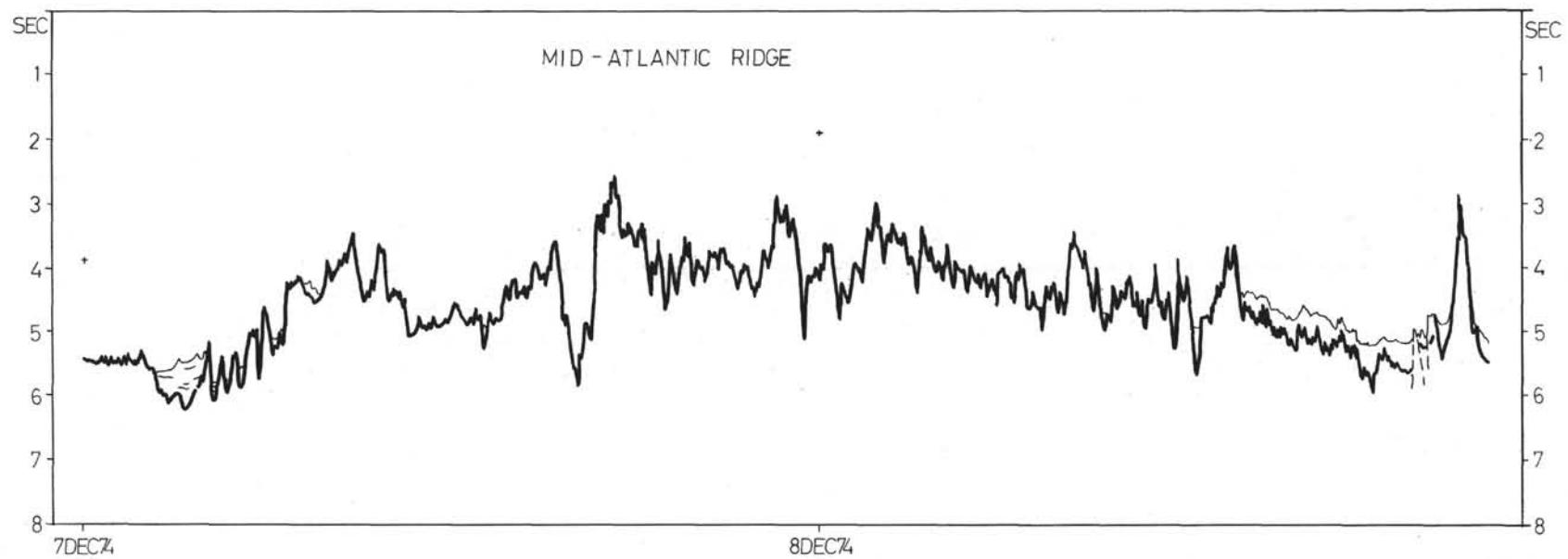


Figure 8. Line drawing interpretations of selected sections of the seismic reflection profiles shown in Appendix C. Heavy black lines indicate acoustic basement. Interpretations by L. R. Merklin.

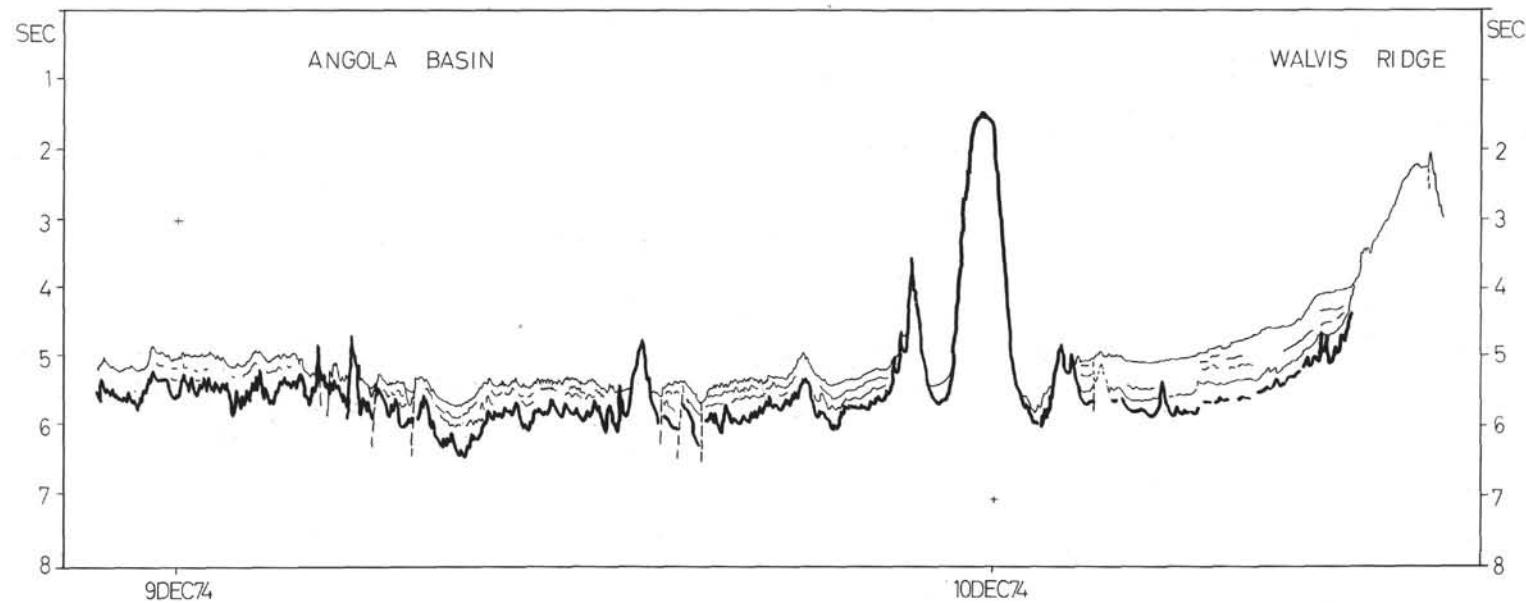


Figure 9. Line drawing interpretations of selected sections of the seismic reflection profiles shown in Appendix C. Heavy black lines indicate acoustic basement. Interpretations by L. R. Merklin.

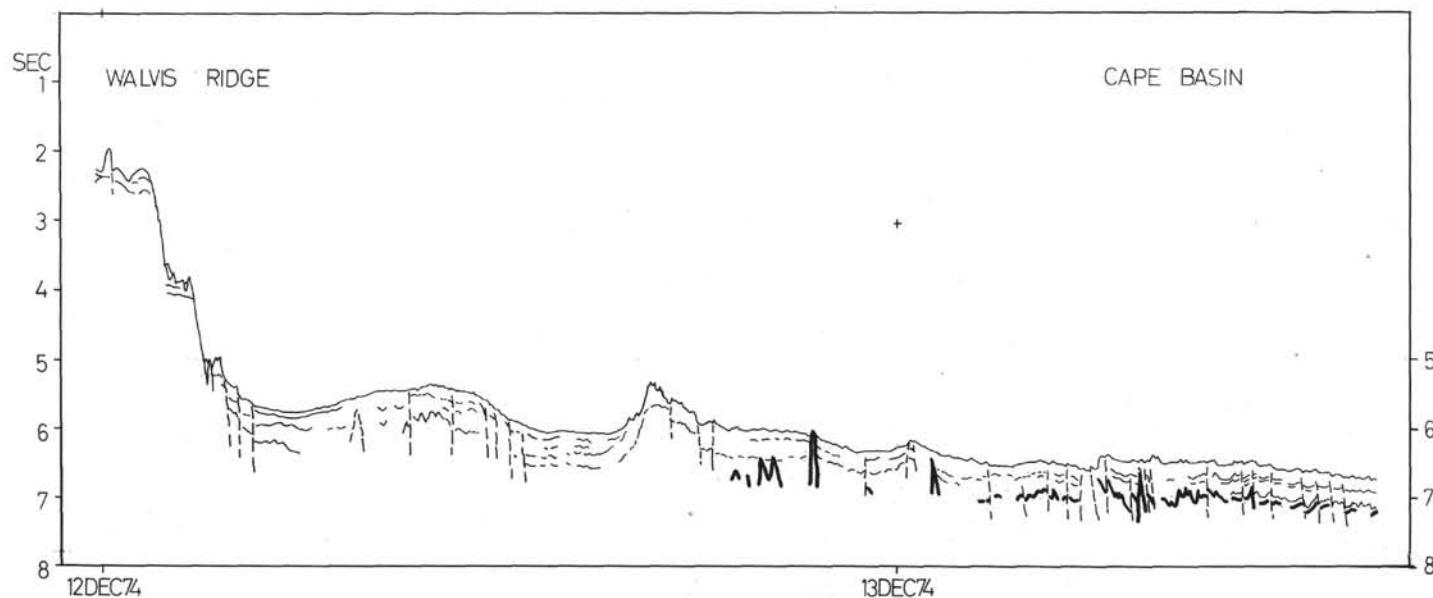


Figure 10. Line drawing interpretations of selected sections of the seismic reflection profiles shown in Appendix C. Heavy black lines indicate acoustic basement. Interpretations by L. R. Merklin.

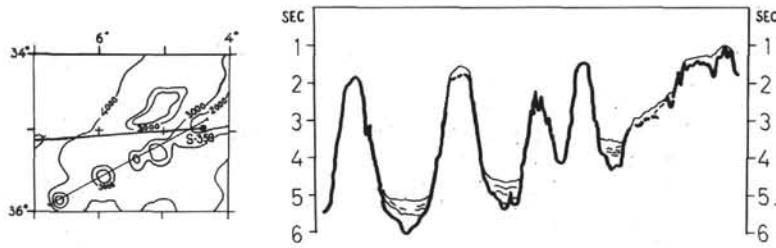


Figure 11. Seismic section and regional bathymetry of the southwest section of the Walvis Ridge, based upon data from Cruise 20, R/V Akademik Kurchatov (Udintsev et al., *in press*). Heavy solid line is Glomar Challenger Site 359 approach track, light solid line is cruise track of R/V Akademik Kurchatov.

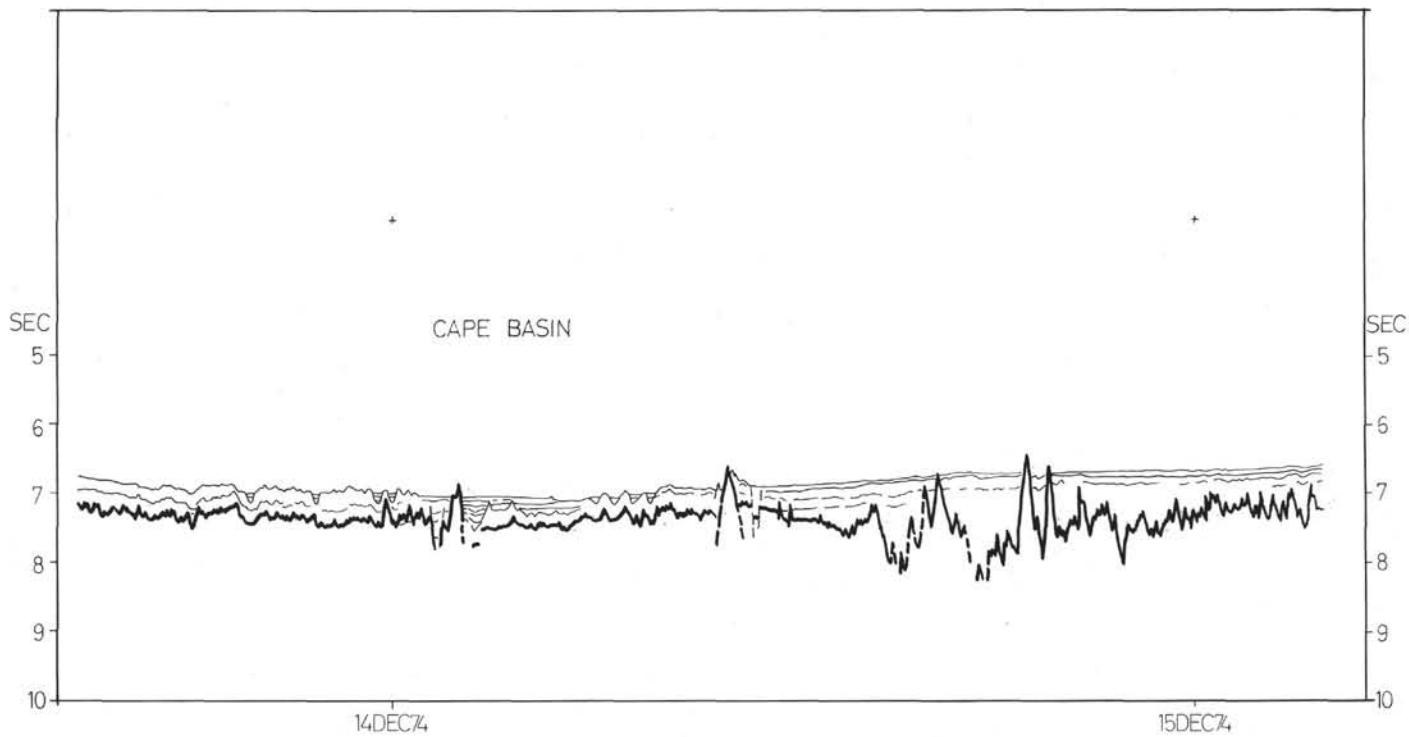


Figure 12. Line drawing interpretations of selected sections of the seismic reflection profiles shown in Appendix C. Heavy black lines indicate acoustic basement. Interpretations by L. R. Merklin.

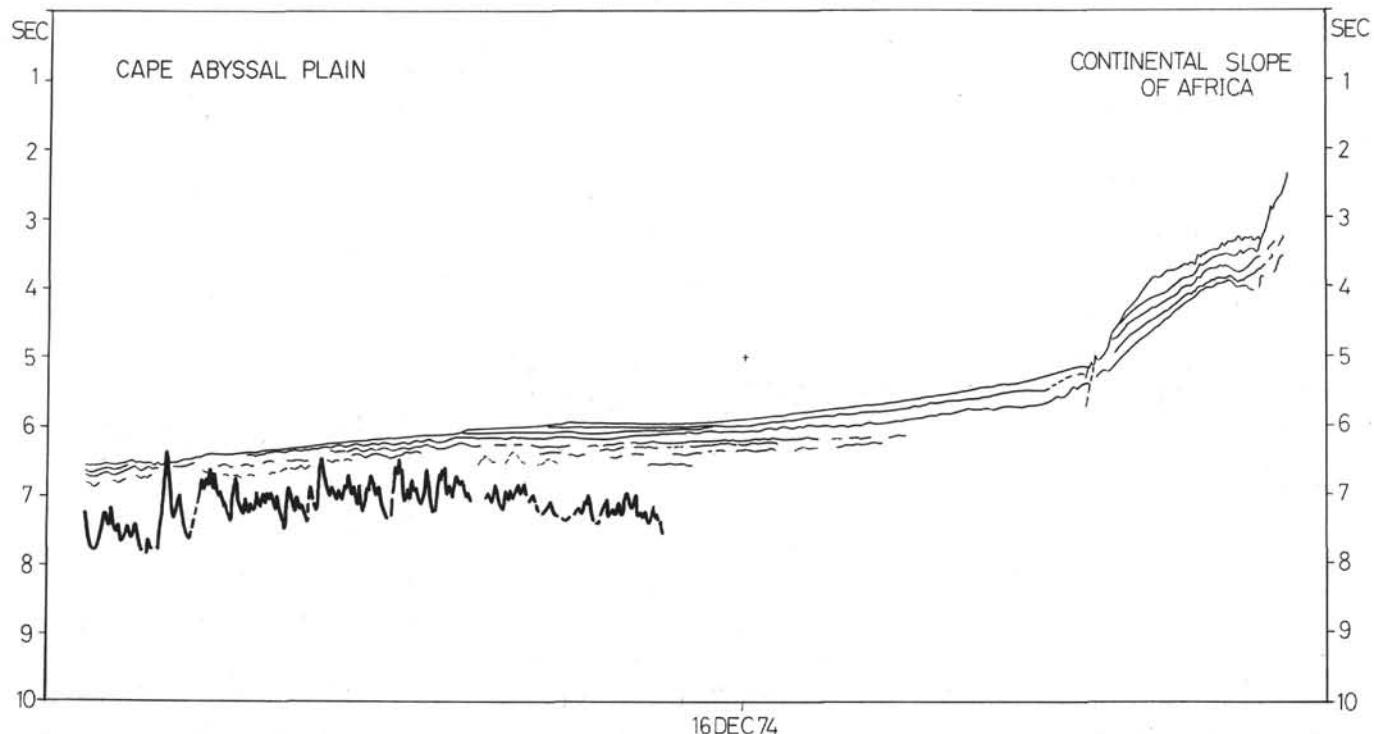


Figure 13. Line drawing interpretations of selected sections of the seismic reflection profiles shown in Appendix C. Heavy black lines indicate acoustic basement. Interpretations by L. R. Merklin.

Walvis Ridge, the sediment thickness increases to 700 to 900 meters, and the structure of the basement becomes simpler, although it continues to show strong faulting in some places (Figure 9).

Walvis Ridge

The Walvis Ridge is seen on the profile as a big asymmetric basement high. The slopes of the ridge are not steep except on the southeastern slope, where two big faults are visible. The top and slopes of the ridge are covered by 200 to 250 meters of sediments. Thicker sediments, up to 1000 meters, are visible on the foot of the ridge (Figures 9, 10).

On the basis of data of Cruise 20 of R/V *Academik Kurchatov* (Udintsev et al., in press), several big submarine mountains and ridges are situated in the southwestern area of the Walvis Ridge (Figure 11). The slopes of these structures are totally devoid of sediments; on the foot of the structures and in the basins between the mountains, sediments 600 to 800 meters thick occur. The *Glomar Challenger* track passes along one basin and crosses only one of these mountains.

Cape Basin

The weak, wavy bottom of the western part of the Cape Basin has a slight slope to the east. The sedimentary cover consists of two transparent layers, each 200 to 300 meters thick, separated by a strong reflector. The acoustic basement is broken by many faults. The

sediments are also offset parallel to basement in some places. The magnetic field is quiet in this area.

In the central part of the basin, a small high of acoustic basement, with a width of about 200 km, occurs. It is bounded by faults, and is clearly visible in the magnetic records. On the flanks of the high, 100 to 200 meters of well-stratified sediments overlie a layer of acoustically transparent sediments (Figure 12).

The eastern part of the profile crosses the Cape Abyssal Plain. The bottom is flat, and slopes weakly to the west. The sedimentary cover consists of two layers: an upper, well-stratified layer, 300 to 400 meters to 500 to 600 meters thick, and a lower, acoustically transparent layer, 500 to 1200 meters thick. The surface of the acoustic basement is very rough; this roughness is clearly reflected in the magnetic field records. Basement is not visible near the foot of the continental slope, and the total thickness of sediments here is unknown (Figure 13).

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- Ewing, M., Carpenter, G., Windisch, C., and Ewing, J., 1973. Sediment distribution in the oceans: the Atlantic: Geol. Soc. Am. Bull., v. 84, p. 71-88.
- Udintsev, G.B., Beresnev, A.V., and Perevoschikov, A.V., in press. Preliminary results of researches on unconsolidated sediments and acoustic basement in the Walvis Ridge area: Okeanologia.

APPENDIX A
Navigation Data, Leg 39

Da	Mo	Yr	Time	Latitude	Longitude	Dist.	Actual		Drift		Dr.	Course	Comment	Drift		
							Speed	Course	Speed	Hed.				Dist.	Time	No.
9	10	1974	1330	47°33.00'	-7°14.00'	0.0	5.9	212	1.4	91	6.7	222	DR	0.0	0.0	3
9	10	1974	1410	47°29.7'	-7°17.70'	3.9	5.9	212	1.4	91	6.7	222	C/CS			4
9	10	1974	1418	47°29.00'	-7°17.70'	4.7	4.7	222	0.5	220	6.7	222	SATL	1.1	0.8	6
9	10	1974	1428	47°28.1'	-7°18.9'	5.9	10.5	222	0.5	220	10.0	222	C/S			7
9	10	1974	1429	47°28.0'	-7°19.1'	6.1	10.5	210	0.5	220	10.0	210	C/C			8
9	10	1974	1436	47°26.9'	-7°20.0'	7.3	10.5	222	0.5	220	10.0	222	C/C			9
9	10	1974	1754	47°1.00'	-7°54.20'	42.1	10.4	221	0.5	192	10.0	222	SATL	2.0	3.6	11
9	10	1974	1844	47°54.40'	-8°2.50'	50.8	9.9	222	1.0	79	10.0	222	SATL	0.5	0.8	13
9	10	1974	1848	46°53.9'	-8°3.2'	51.5	7.4	222	0.1	79	7.5	222	C/S			14
9	10	1974	1928	46°50.2'	-8°7.9'	56.4	9.9	222	0.1	79	10.0	222	C/S			15
9	10	1974	1932	46°49.70'	-8°8.60'	57.1	8.4	229	1.9	12	10.0	222	SATL	0.1	0.8	17
9	10	1974	215	46°41.1'	-8°22.8'	70.1	8.3	226	1.9	12	10.0	220	C/C			18
9	10	1974	2334	46°26.80'	-8°44.60'	90.8	11.0	223	1.1	250	10.0	220	SATL	7.9	4.0	20
10	10	1974	0 0	46°23.3'	-8°49.3'	95.6	11.0	223	1.1	250	10.0	220				21
10	10	1974	024	46°20.10'	-8°53.60'	99.9	10.4	215	0.9	153	10.0	220	SATL	1.0	0.8	23
10	10	1974	042	46°17.6'	-8°56.2'	103.1	10.3	219	0.9	153	10.0	224	C/C			24
10	10	1974	120	46°12.50'	-9°2.20'	109.6	10.7	221	0.9	181	10.0	224	SATL	0.9	0.9	26
10	10	1974	145	46°9.1'	-9°6.4'	114.1	9.7	285	0.9	181	10.0	290	C/C			27
10	10	1974	2 0	46°9.7'	-9°9.8'	116.5	10.1	260	0.9	181	10.0	265	C/C			28
10	10	1974	2 6	46°9.6'	-9°11.2'	117.5	10.7	221	0.9	181	10.0	224	C/C			29
10	10	1974	338	45°57.10'	-9°26.60'	133.9	11.0	221	1.2	194	10.0	224	SATL	2.2	2.3	31
10	10	1974	524	45°42.40'	-9°44.90'	153.4	10.8	224	0.8	219	10.0	224	SATL	2.1	1.8	33
10	10	1974	636	45°33.00'	-9°57.70'	166.3	10.4	223	0.5	210	10.0	224	SATL	1.0	1.2	35
10	10	1974	710	45°28.70'	-10°3.50'	172.3	10.6	223	0.7	206	10.0	224	SATL	0.3	0.6	37
10	10	1974	720	45°27.4'	-10°5.2'	174.0	10.6	221	0.7	206	10.0	222	C/C			38
10	10	1974	822	45°19.10'	-10°15.50'	185.0	10.6	220	0.7	194	10.0	222	SATL	0.9	1.2	40
10	10	1974	850	45°15.3'	-10°20.1'	190.0	10.6	217	0.7	194	10.0	219	C/C			41
10	10	1974	944	45°7.70'	-10°28.30'	199.6	10.1	219	0.1	219	10.0	219	SATL	1.0	1.4	43
10	10	1974	1010	45°4.30'	-10°32.20'	203.9	10.4	220	0.4	237	10.0	219	SATL	0.1	0.4	45
10	10	1974	1040	45°0.30'	-10°36.90'	209.1	10.7	218	0.7	208	10.0	219	SATL	0.3	0.5	47
10	10	1974	1130	44°53.30'	-10°44.70'	218.1	10.7	219	0.7	221	10.0	219	SATL	0.6	0.8	49
10	10	1974	1224	44°45.80'	-10°53.30'	227.7	10.7	219	0.7	222	10.0	219	SATL	0.7	0.9	51
10	10	1974	1318	44°38.30'	-11°1.90'	237.4	10.5	215	0.8	166	10.0	219	SATL	0.7	0.9	53
10	10	1974	1412	44°30.60'	-11°9.60'	246.9	10.9	218	0.9	202	10.0	219	SATL	0.8	0.9	55
10	10	1974	1514	44°21.70'	-11°19.20'	258.1	10.8	217	0.9	199	10.0	219	SATL	1.0	1.0	57
10	10	1974	1544	44°17.40'	-11°23.80'	263.5	11.0	217	1.0	198	10.0	219	SATL	0.5	0.5	59
10	10	1974	17 2	44°6.00'	-11°35.80'	277.8	10.8	218	0.8	206	10.0	219	SATL	1.4	1.3	61
10	10	1974	1726	44°2.60'	-11°39.50'	282.1	10.5	217	0.7	179	10.0	219	SATL	0.4	0.4	63
10	10	1974	1854	43°50.20'	-11°52.30'	297.6	10.6	219	0.6	214	10.0	219	SATL	1.1	1.5	65
10	10	1974	1920	43°46.60'	-11°56.30'	302.2	10.7	219	0.7	218	10.0	219	SATL	0.3	0.4	67
10	10	1974	2028	43°37.20'	-12°6.80'	314.3	10.4	218	0.4	194	10.0	219	SATL	0.8	1.1	69
10	10	1974	21 6	43°32.00'	-12°12.40'	320.8	10.4	217	0.5	182	10.0	219	SATL	0.3	0.6	71
10	10	1974	2146	43°26.50'	-12°18.20'	327.8	10.3	216	0.6	161	10.0	219	SATL	0.4	0.7	73
10	10	1974	2214	43°22.60'	-12°22.10'	332.6	10.4	219	0.4	219	10.0	219	SATL	0.3	0.5	75
10	10	1974	2240	43°19.10'	-12°26.00'	337.1	10.2	216	0.6	146	10.0	219	SATL	0.2	0.4	77
11	10	1974	0 0	43°8.0'	-12°36.9'	350.7	10.2	216	0.6	146	10.0	219	SATL			78
11	10	1974	1 0	42°59.7'	-12°46.2'	361.4	11.1	224	1.2	246	10.0	222	C/C			81
11	10	1974	120	42°57.10'	-12°49.70'	365.1	10.8	219	0.9	190	10.0	222	SATL	1.2	0.9	83
11	10	1974	212	42°49.90'	-12°57.80'	374.5	10.3	218	0.7	154	10.0	222	SATL	0.8	0.9	85
11	10	1974	232	42°47.20'	-13°0.70'	377.9	10.4	219	0.6	169	10.0	222	SATL	0.3	0.3	87
11	10	1974	412	42°33.80'	-13°15.60'	395.2	10.5	218	0.8	163	10.0	222	SATL	1.1	1.7	89
11	10	1974	436	42°30.50'	-13°19.10'	399.4	11.0	221	1.0	206	10.0	222	SATL	0.4	0.4	91
11	10	1974	530	42°23.00'	-13°27.80'	409.3	10.6	223	0.7	236	10.0	222	SATL	1.0	0.9	93
11	10	1974	6 0	42°19.10'	-13°32.70'	414.6	10.8	223	0.8	230	10.0	222	SATL	0.4	0.5	95
11	10	1974	622	42°16.20'	-13°36.30'	418.5	10.6	222	0.6	221	10.0	222	SATL	0.3	0.4	97
11	10	1974	712	42°9.60'	-13°44.30'	427.4	11.4	223	1.5	233	10.0	222	SATL	0.6	0.8	99
11	10	1974	738	42°6.00'	-13°48.90'	432.4	10.7	220	0.8	196	10.0	222	SATL	0.7	0.4	101
11	10	1974	8 0	42°3.0'	-13°52.3'	436.3	10.7	218	0.8	196	10.0	220	C/C			102
11	10	1974	810	42°1.60'	-13°53.80'	438.1	11.0	220	1.0	223	10.0	220	SATL	0.5	0.5	104
11	10	1974	922	41°51.50'	-14°5.30'	451.3	10.6	220	0.6	228	10.0	220	SATL	1.3	1.2	106
11	10	1974	1040	41°41.00'	-14°17.30'	465.1	10.5	221	0.6	233	10.0	220	SATL	0.9	1.3	108
11	10	1974	1110	41°37.00'	-14°21.90'	470.4	10.9	219	0.9	212	10.0	220	SATL	0.9	0.5	110
11	10	1974	1132	41°33.90'	-14°25.30'	474.4	10.7	220	0.7	215	10.0	220	SATL	0.4	0.4	112
11	10	1974	1226	41°26.50'	-14°33.50'	484.0	10.6	219	0.6	211	10.0	220	SATL	0.7	0.9	114
11	10	1974	1318	41°19.40'	-14°41.30'	493.2	10.4	219	0.5	189	10.0	220	SATL	0.6	0.9	116
11	10	1974	1426	41°10.20'	-14°51.10'	505.5	10.8	219	0.8	211	10.0	220	SATL	0.6	1.1	118
11	10	1974	1612	40°55.50'	-15°7.10'	524.0	11.0	223	1.1	249	10.0	220	SATL	1.4	1.8	120
11	10	1974	1638	40°52.00'	-15°11.40'	528.8	10.4	219	0.4	196	10.0	220	SATL	0.5	0.4	122
11	10	1974	18 0	40°41.00'	-15°23.20'	543.0	10.4	223	0.7	269	10.0	220	SATL	0.6	1.4	124
11	10	1974	1818	40°38.70'	-15°26.00'	546.1	10.5	218	0.5	188	10.0	220	SATL	0.2	0.3	126
11	10	1974	1940	40°27.50'	-15°37.70'	560.4	10.3	218	0.4	174	10.0	220	SATL	0.8	1.4	128
11	10	1974	20 0	40°24.80'	-15°40.50'	563.8	10.6	219	0.7	199	10.0					

APPENDIX A - Continued

Da	Mo	Yr	Time	Latitude	Longitude	Dist.	Actual		Drift		Dr.	Course	Comment	Drift		No.
							Speed	Course	Speed	Hed.				Speed	Time	
12	10	1974	0 0	39°52.2'	-16°15.8'	606.2	10.5	222	0.5	218	10.0	222	SATL	0.5	0.9	142
12	10	1974	026	39°48.80'	-16°19.70'	610.7	10.8	222	0.8	211	10.0	222	SATL	0.7	0.8	144
12	10	1974	114	39°42.30'	-16°27.10'	619.3	10.7	221	0.8	205	10.0	222	SATL	1.7	2.2	146
12	10	1974	324	39°24.70'	-16°46.80'	642.6	10.3	220	0.5	166	10.0	222	SATL	0.9	1.8	148
12	10	1974	510	39°10.70'	-17° 1.80'	660.8	10.4	218	0.9	160	10.0	222	SATL	0.4	0.4	150
12	10	1974	534	39° 7.40'	-17° 5.10'	644.9	10.1	222	0.3	152	10.0	222	SATL	0.4	0.4	152
12	10	1974	6 6	39° 3.30'	-17° 9.60'	670.3	10.2	222	0.2	202	10.0	222	SATL	0.2	0.5	154
12	10	1974	722	38°53.70'	-17°20.60'	683.2	9.9	219	0.6	118	10.0	222	SATL	0.3	1.3	156
12	10	1974	750	38°50.10'	-17°24.30'	687.8	10.1	222	0.1	188	10.0	222	SATL	0.3	0.5	158
12	10	1974	836	38°44.30'	-17°30.90'	695.5	10.0	224	0.3	309	10.0	222	SATL	0.2	0.8	160
12	10	1974	940	38°36.60'	-17°40.40'	706.2	9.1	222	0.9	38	10.0	222	SATL	0.4	1.1	162
12	10	1974	956	38°34.80'	-17°42.50'	708.7	10.6	224	0.7	256	10.0	222	SATL	0.3	0.3	164
12	10	1974	1022	38°31.50'	-17°46.60'	713.3	10.6	222	0.6	229	10.0	222	SATL	0.4	0.4	166
12	10	1974	11 0	38°26.6'	-17°52.4'	720.0	10.6	220	0.6	229	10.0	219	C/C			167
12	10	1974	12 7	38°17.5'	-18° 1.9'	731.8	8.1	220	0.6	229	7.5	219	C/S			168
12	10	1974	1226	38°15.50'	-18° 4.00'	734.3	7.9	217	0.5	179	7.5	219	SATL	1.2	2.1	170
12	10	1974	13 0	38°11.9'	-18° 7.4'	738.8	10.4	217	0.5	179	10.0	219	C/S			171
12	10	1974	1324	38° 8.60'	-18°10.60'	742.9	10.5	219	0.5	217	10.0	219	SATL	0.5	1.0	173
12	10	1974	1636	37°42.3'	-18°37.5'	776.7	4.9	219	0.5	217	4.4	219	C/S			174
12	10	1974	1644	37°41.8'	-18°38.0'	777.4	6.7	219	0.5	217	6.2	219	C/S			175
12	10	1974	1710	37°39.5'	-18°40.3'	780.3	10.5	219	0.5	217	10.0	219	C/S			176
12	10	1974	1854	37°25.30'	-18°54.80'	798.6	10.2	216	0.6	148	10.0	219	SATL	3.1	5.5	178
12	10	1974	20 0	37°16.2'	-19° 3.1'	809.8	10.2	218	0.6	148	10.0	221	C/C			179
12	10	1974	2034	37°11.60'	-19° 7.50'	815.6	10.5	221	0.5	215	10.0	221	SATL	1.1	1.7	181
12	10	1974	2150	37° 1.50'	-19°18.40'	828.9	9.5	222	0.6	17	10.0	221	SATL	0.7	1.3	183
12	10	1974	2220	36°58.00'	-19°22.40'	833.7	10.2	223	0.4	277	10.0	221	SATL	0.3	0.5	185
12	10	1974	2332	36°49.00'	-19°32.80'	845.9	10.3	221	0.3	221	10.0	221	SATL	0.5	1.2	187
13	10	1974	0 0	36°45.4'	-19°36.7'	850.7	10.3	221	0.3	221	10.0	221				188
13	10	1974	051	36°38.8'	-19°43.8'	859.4	10.3	219	0.3	221	10.0	219	C/C			189
13	10	1974	122	36°34.70'	-19°48.00'	864.7	10.5	219	0.5	218	10.0	219	SATL	0.5	1.8	191
13	10	1974	230	36°25.5'	-19°57.3'	876.6	10.5	220	0.5	218	10.0	220	C/C			192
13	10	1974	238	36°24.40'	-19°58.40'	878.0	10.3	217	0.6	162	10.0	220	SATL	0.7	1.3	194
13	10	1974	424	36° 9.90'	-20°12.10'	896.2	11.2	222	1.3	238	10.0	220	SATL	1.1	1.8	196
13	10	1974	612	35°54.90'	-20°28.80'	916.4	11.0	223	1.2	249	10.0	220	SATL	2.3	1.8	198
13	10	1974	632	35°52.20'	-20°31.90'	920.1	10.9	222	1.0	241	10.0	220	SATL	0.4	0.3	200
13	10	1974	750	35°41.60'	-20°43.60'	934.3	10.9	223	1.1	258	10.0	220	SATL	1.4	1.3	202
13	10	1974	822	35°37.40'	-20°48.50'	940.1	10.8	220	0.8	223	10.0	220	SATL	0.6	0.5	204
13	10	1974	934	35°27.50	-20°58.80'	953.1	10.4	220	0.4	212	10.0	220	SATL	1.0	1.2	206
13	10	1974	1030	35°20.1'	-21° 6.4'	962.7	10.4	219	0.4	212	10.0	219	C/C			207
13	10	1974	1046	35°17.90'	-21° 8.50'	965.5	10.3	219	0.3	228	10.0	219	SATL	0.5	1.2	209
13	10	1974	1232	35° 3.80'	-21°22.60'	983.7	10.1	217	0.3	151	10.0	219	SATL	0.6	1.8	211
13	10	1974	1316	34°57.90'	-21°28.10'	991.1	10.1	216	0.6	136	10.0	219	SATL	0.3	0.7	213
13	10	1974	1436	34°47.00'	-21°37.70'	1004.6	10.1	214	0.9	131	10.0	219	SATL	0.8	1.3	215
13	10	1974	15 4	34°43.10'	-21°40.90'	1009.3	10.5	216	0.8	173	10.0	219	SATL	0.5	0.5	217
13	10	1974	1645	34°28.7'	-21°53.6'	1027.0	10.5	218	0.8	173	10.0	221	C/C			218
13	10	1974	1645	34°38.60'	-21°53.70'	1027.2	10.1	222	0.2	254	10.0	221	SATL	1.4	1.7	220
13	10	1974	1750	34°20.50'	-22° 2.40'	1038.0	11.2	222	1.2	228	10.0	221	SATL	0.2	1.1	222
13	10	1974	18 8	34°18.00'	-22° 5.10'	1041.4	10.3	220	0.3	195	10.0	221	SATL	0.4	0.3	224
13	10	1974	2120	33°52.80'	-22°30.80'	1074.4	10.4	223	0.5	254	10.0	221	SATL	1.1	3.2	226
13	10	1974	2242	33°42.30'	-22°42.40'	1088.6	10.5	222	0.6	241	10.0	221	SATL	0.8	1.4	228
13	10	1974	2318	33°37.60'	-22°47.50'	1094.9	10.7	222	0.8	230	10.0	221	SATL	0.4	0.6	230
14	10	1974	0 0	33°32.0'	-22°53.5'	1102.5	10.7	222	0.7	230	10.0	221				231
14	10	1974	026	33°28.50'	-22°57.20'	1107.1	10.8	221	0.8	218	10.0	221	SATL	0.9	1.1	233
14	10	1974	1 8	33°22.80'	-23° 3.10'	1114.6	11.0	222	1.0	229	10.0	221	SATL	0.6	0.7	235
14	10	1974	258	33° 7.80'	-23°19.10'	1134.7	10.8	222	0.8	229	10.0	221	SATL	1.8	1.8	237
14	10	1974	336	33° 2.70'	-23°24.50'	1141.6	10.7	218	0.9	184	10.0	221	SATL	0.5	0.6	239
14	10	1974	410	32°57.9'	-23°29.0'	1147.6	10.7	217	0.9	184	10.0	220	C/C			240
14	10	1974	520	32°48.00'	-23°38.00'	1160.1	10.1	217	0.5	137	10.0	220	SATL	1.5	1.7	242
14	10	1974	544	32°44.80'	-23°40.90'	1164.1	10.7	218	0.7	196	10.0	220	SATL	0.2	0.4	244
14	10	1974	720	32°31.40'	-23°53.50'	1181.2	10.2	219	0.2	192	10.0	220	SATL	1.2	1.6	246
14	10	1974	846	32°20.10'	-24° 4.50'	1195.9	10.3	217	0.6	160	10.0	220	SATL	0.4	1.4	248
14	10	1974	9 8	32°17.10'	-24° 7.20'	1199.6	10.4	218	0.5	183	10.0	220	SATL	0.3	0.4	250
14	10	1974	956	32°10.60'	-24°13.30'	1207.9	10.2	129	0.3	164	10.0	220	SATL	0.4	0.8	252
14	10	1974	1036	32° 5.30'	-24°18.30'	1214.7	10.7	220	0.7	220	10.0	220	SATL	0.2	0.7	254
14	10	1974	1142	31°56.30'	-24°27.20'	1226.5	10.5	218	0.6	186	10.0	220	SATL	0.8	1.1	256
14	10	1974	1222	31°50.80'	-24°32.30'	1233.5	10.6	219	0.6	210	10.0	220	SATL	0.4	0.7	258
14	10	1974	1328	31°41.80'	-24°41.00'	1245.1	10.5	221	0.5	231	10.0	220	SATL	0.7	1.1	260
14	10	1974	14 0	31°37.5'	-24°45.3'	1250.7	10.5	222	0.5	231	10.0	222	C/C			261
14	10	1974	14 8	31°36.50'	-24°46.40'	1252.1	10.6	222	0.6	227	10.0	222	SATL	0.4	0.7	263
14	10	1974	1530	31°25.80'	-24°57.80'	1266.6	10.6	224	0.6	251	10.0	222	SATL	0.8	1.4	265
14	10	1974	1716	31°12.30'	-25°12.90'	1285.3	10.9									

APPENDIX A - Continued

Da	Mo	Yr	Time	Latitude	Longitude	Dist.	Actual		Drift		Dr		Drift			
							Speed	Course	Speed	Hed.	Speed	Course	Comment	Dist.	Time	No.
15	10	1974	122	30° 9.10'	-26° 15.10'	1384.1	11.5	222	1.5	235	10.0	220	SATL	0.4	1.8	281
15	10	1974	250	29° 56.60'	-26° 28.10'	1384.9	9.2	215	1.1	84	10.0	220	SATL	2.3	1.5	283
15	10	1974	616	29° 30.70'	-26° 49.20'	1416.6	11.1	221	1.1	234	10.0	220	SATL	3.8	3.4	285
15	10	1974	832	29° 11.80'	-27° 8.30'	1441.8	10.6	219	0.7	199	10.0	220	SATL	2.6	2.3	287
15	10	1974	950	29° 1.00'	-27° 18.20'	1455.7	10.4	220	0.4	209	10.0	220	SATL	0.9	1.3	289
15	10	1974	1238	28° 38.50'	-27° 39.40'	1484.8	10.2	218	0.4	159	10.0	220	SATL	1.2	2.8	291
15	10	1974	1314	28° 33.70'	-27° 43.70'	1490.9	10.9	218	0.9	196	10.0	220	SATL	0.3	0.6	293
15	10	1974	1345	28° 29.3'	-27° 47.6'	1496.6	10.8	222	0.9	196	10.0	224	C/C			294
15	10	1974	1444	28° 21.30'	-27° 55.70'	1507.2	10.6	226	0.7	260	10.0	224	SATL	1.5	1.5	296
15	10	1974	1628	28° 8.60'	-28° 10.80'	1525.6	10.4	225	0.4	244	10.0	224	SATL	1.3	1.7	298
15	10	1974	1654	28° 5.40'	-28° 14.40'	1530.1	10.6	223	0.6	214	10.0	224	SATL	0.2	0.4	300
15	10	1974	18 0	27° 56.9'	-28° 23.5'	1541.8	10.6	218	0.6	214	10.0	218	C/C			301
15	10	1974	1818	27° 54.40'	-28° 25.70'	1545.0	10.3	218	0.3	215	10.0	218	SATL	0.9	1.4	303
15	10	1974	2140	27° 27.00'	-28° 49.80'	1579.7	10.3	219	0.3	237	10.0	218	SATL	1.1	3.4	305
15	10	1974	22 0	27° 24.3'	-28° 52.2'	1583.2	10.3	221	0.3	237	10.0	220	C/C			306
15	10	1974	2246	27° 18.30'	-28° 58.00'	1591.1	10.2	217	0.6	146	10.0	220	SATL	0.4	1.1	308
15	10	1974	2322	27° 13.40'	-29° 2.10'	1597.2	10.2	221	0.2	267	10.0	220	SATL	0.4	0.6	310
16	10	1974	0 0	27° 8.5'	-29° 6.9'	1603.6	10.2	221	0.2	267	10.0	220	SATL	0.3	1.1	311
16	10	1974	030	27° 4.70'	-29° 10.60'	1608.7	10.3	220	0.3	212	10.0	220	SATL	0.2	0.6	313
16	10	1974	1 4	27° 0.20'	-29° 14.80'	1614.6	10.2	219	0.2	184	10.0	220	SATL	0.5	1.8	317
16	10	1974	252	26° 46.00'	-29° 27.80'	1632.9	10.2	220	0.2	228	10.0	220	SATL	0.5	1.8	317
16	10	1974	348	26° 38.70'	-29° 34.70'	1642.4	10.3	220	0.3	231	10.0	220	SATL	0.3	0.9	319
16	10	1974	534	26° 24.80'	-29° 47.90'	1660.7	10.6	220	0.6	224	10.0	220	SATL	0.6	1.8	321
16	10	1974	652	26° 14.30'	-29° 57.80'	1674.4	10.5	221	0.5	241	10.0	220	SATL	0.8	1.3	323
16	10	1974	742	26° 7.70'	-30° 4.20'	1683.2	10.4	219	0.4	205	10.0	220	SATL	0.5	0.8	325
16	10	1974	836	26° 0.50'	-30° 10.80'	1692.5	10.5	221	0.5	240	10.0	220	SATL	0.4	0.9	327
16	10	1974	858	25° 57.60'	-30° 13.60'	1696.3	10.3	219	0.4	179	10.0	220	SATL	0.2	0.4	329
16	10	1974	1044	25° 43.40'	-30° 26.60'	1714.5	10.7	220	0.7	214	10.0	220	SATL	0.7	1.8	331
16	10	1974	1146	25° 34.90'	-30° 34.00'	1725.5	10.2	219	0.3	169	10.0	220	SATL	0.7	1.0	333
16	10	1974	1220	25° 30.40'	-30° 38.00'	1731.3	10.4	218	0.5	182	10.0	220	SATL	0.2	0.6	335
16	10	1974	1334	25° 20.30'	-30° 46.80'	1744.2	10.6	217	0.8	181	10.0	220	SATL	0.7	1.2	337
16	10	1974	14 6	25° 15.80'	-30° 50.60'	1749.8	10.5	218	0.6	190	10.0	220	SATL	0.5	0.5	339
16	10	1974	1540	25° 2.90'	-31° 1.90'	1766.3	10.5	219	0.5	199	10.0	220	SATL	1.0	1.6	341
16	10	1974	1724	24° 48.80'	-31° 14.50'	1784.4	11.0	221	1.0	235	10.0	220	SATL	0.9	1.7	343
16	10	1974	1748	24° 45.50'	-31° 17.70'	1788.8	10.5	220	0.6	211	10.0	220	SATL	0.5	0.4	345
16	10	1974	1932	24° 31.40'	-31° 30.50'	1807.1	10.6	220	0.6	222	10.0	220	SATL	1.0	1.7	347
16	10	1974	1952	24° 28.70'	-31° 33.00'	1810.6	10.7	221	0.7	228	10.0	220	SATL	0.3	0.3	349
16	10	1974	2052	24° 20.60'	-31° 40.60'	1821.3	10.2	221	0.2	256	10.0	220	SATL	0.7	1.0	351
16	10	1974	2134	24° 15.20'	-31° 45.70'	1828.4	10.5	219	0.5	208	10.0	220	SATL	0.2	0.7	353
16	10	1974	2234	24° 7.10'	-31° 53.00'	1838.9	10.5	221	0.5	239	10.0	220	SATL	0.5	1.0	355
16	10	1974	2336	23° 58.90'	-32° 0.80'	1849.8	10.4	218	0.5	183	10.0	220	SATL	0.6	1.0	357
17	10	1974	0 0	23° 55.6'	-32° 3.6'	1853.9	10.4	218	0.5	183	10.0	220	SATL			358
17	10	1974	010	23° 54.30'	-32° 4.80'	1855.6	10.4	221	0.4	239	10.0	220	SATL	0.3	0.6	360
17	10	1974	3 4	23° 31.50'	-32° 26.20'	1885.7	10.6	219	0.6	205	10.0	220	SATL	1.2	2.9	362
17	10	1974	638	23° 2.10'	-32° 52.20'	1923.6	10.7	219	0.7	207	10.0	220	SATL	2.3	3.6	364
17	10	1974	728	22° 55.20'	-32° 58.30'	1932.5	10.4	221	0.5	244	10.0	220	SATL	0.6	0.8	366
17	10	1974	956	22° 35.80'	-33° 16.60'	1958.2	10.7	220	0.7	224	10.0	220	SATL	1.2	2.5	368
17	10	1974	1058	22° 27.40'	-33° 24.30'	1969.2	9.7	224	0.7	341	10.0	220	SATL	0.7	1.0	370
17	10	1974	1128	22° 23.90'	-33° 27.90'	1974.0	10.6	226	1.3	285	10.0	220	SATL	0.4	0.5	372
17	10	1974	1146	22° 21.70'	-33° 30.40'	1977.2	10.2	221	0.2	252	10.0	220	SATL	0.4	0.3	374
17	10	1974	12 7	22° 19.0'	-33° 32.9'	1980.8	9.0	221	0.2	252	8.8	220	C/S			375
17	10	1974	1233	22° 16.1'	-33° 35.6'	1984.7	10.2	221	0.2	252	10.0	220	C/S			376
17	10	1974	1242	22° 14.90'	-33° 36.70'	1986.2	10.4	221	0.4	252	10.0	220	SATL	0.2	0.9	278
17	10	1974	1312	22° 11.00'	-33° 40.40'	1991.4	10.2	221	0.3	257	10.0	220	SATL	0.3	0.5	380
17	10	1974	15 0	21° 57.10'	-33° 53.40'	2009.8	10.2	222	0.4	275	10.0	220	SATL	0.5	1.8	382
17	10	1974	1636	21° 44.90'	-34° 5.10'	2026.1	10.4	218	0.5	174	10.0	220	SATL	0.6	1.6	384
17	10	1974	17 0	21° 41.6'	-34° 7.8'	2030.2	10.4	219	0.5	174	10.0	221	C/C			385
17	10	1974	1828	21° 29.80'	-34° 18.10'	2045.4	10.4	217	0.8	158	10.0	221	SATL	1.0	1.9	387
17	10	1974	1844	21° 27.60'	-34° 19.90'	2048.2	10.3	220	0.4	182	10.0	221	SATL	0.3	0.3	389
17	10	1974	2026	21° 14.10'	-34° 31.90'	2065.7	10.4	219	0.6	174	10.0	221	SATL	0.7	1.7	391
17	10	1974	2146	21° 3.30'	-34° 41.20'	2079.6	10.5	219	0.6	183	10.0	221	SATL	0.8	1.3	393
17	10	1974	2334	20° 48.70'	-34° 53.90'	2098.4	10.4	218	0.6	163	10.0	221	SATL	1.1	1.8	395
18	10	1974	0 0	20° 45.2'	-34° 45.2'	2102.9	10.4	218	0.6	163	10.0	221	SATL			396
18	10	1974	0 0	20° 44.9'	-34° 57.1'	2103.2	10.3	220	0.6	163	10.0	223	C/C			397
18	10	1974	030	20° 41.20'	-35° 0.40'	2108.0	11.1	222	1.1	217	10.0	223	SATL	0.6	0.9	399
18	10	1974	1 0	20° 37.10'	-35° 4.40'	2113.6	10.2	221	0.4	161	10.0	223	SATL	0.6	0.5	401
18	10	1974	220	20° 26.80'	-35° 13.90'	2127.2	10.4	223	0.4	226	10.0	223	SATL	0.6	1.3	403
18	10	1974	246	20° 23.50'	-35° 17.20'	2131.7	10.6	223	0.6	221	10.0	223	SATL	0.2	0.4	405
18	10	1974	4 0	20° 13.90'	-35° 26.70'	2144.8	10.3	223	0.3	216	10.0	223	SATL	0.8	1.2	407
18	10	1974	546	20° 0.50												

APPENDIX A - Continued

Da	Mo	Yr	Time	Latitude	Longitude	Dist.	Actual		Drift		Dr	Course	Comment	Drift		
							Speed	Course	Speed	Hed.				Speed	Dist.	Time
18	10	1974	1340	19° 0.40'	-36° 39.30'	2245.2	10.5	222	0.5	212	10.0	223	SATL	0.5	1.4	427
18	10	1974	14 4	18° 57.30'	-36° 42.30'	2249.4	10.2	223	0.2	208	10.0	223	SATL	0.3	0.4	429
18	10	1974	1415	18° 55.9'	-36° 43.6'	2251.3	10.2	219	0.2	208	10.0	219	C/C			430
18	10	1974	1548	18° 43.60'	-36° 54.10'	2267.1	10.2	219	0.2	206	10.0	219	SATL	0.4	1.7	432
18	10	1974	1721	18° 31.3'	-37° 4.5'	2282.9	6.9	219	0.2	206	6.7	219	C/S			433
18	10	1974	1756	18° 28.10'	-37° 7.20'	2287.0	7.0	221	0.4	225	6.7	219	SATL	0.5	2.1	435
18	10	1974	1815	18° 26.4'	-37° 8.7'	2289.2	10.3	220	0.4	255	10.0	219	C/S			436
18	10	1974	1855	18° 21.2'	-37° 13.4'	2296.1	7.0	221	0.4	255	6.7	219	C/S			437
18	10	1974	19 0	18° 20.7'	-37° 13.9'	2296.7	10.3	220	0.4	255	10.0	219	C/S			438
18	10	1974	1920	18° 18.10'	-37° 16.20'	2300.1	9.9	218	0.2	101	10.0	219	SATL	0.6	1.4	440
18	10	1974	2242	17° 51.80'	-37° 37.70'	2333.4	10.1	219	0.1	173	10.0	219	SATL	0.8	3.4	442
19	10	1974	0 0	17° 41.6'	-37° 46.3'	2346.5	10.1	219	0.1	173	10.0	219				443
19	10	1974	110	17° 32.4'	-37° 54.0'	2358.3	8.8	219	0.1	173	8.7	219	C/S			444
19	10	1974	115	17° 31.8'	-37° 54.4'	2359.0	6.8	218	0.1	173	6.7	219	C/S			445
19	10	1974	124	17° 31.00'	-37° 55.10'	2360.0	7.9	226	1.5	260	6.7	219	SATL	0.3	2.7	447
19	10	1974	130	17° 30.5'	-37° 55.7'	2360.8	10.2	224	1.5	260	9.1	219	C/S	0		448
19	10	1974	139	17° 29.4'	-37° 56.8'	2362.3	10.7	224	1.5	260	9.6	219	C/S			449
19	10	1974	148	17° 28.20'	-37° 58.00'	2364.0	9.8	220	0.2	242	9.6	219	SATL	0.6	0.4	451
19	10	1974	316	17° 17.10'	-38° 7.60'	2378.4	10.0	219	0.4	221	9.6	219	SATL	0.4	1.5	453
19	10	1974	439	17° 6.3'	-38° 16.8'	2392.2	10.2	219	0.4	221	9.8	219	C/S			454
19	10	1974	458	17° 3.80'	-38° 18.90'	2395.5	10.3	218	0.5	203	9.8	219	SATL	0.8	1.7	456
19	10	1974	648	16° 49.00'	-38° 31.10'	2414.3	10.2	219	0.4	229	9.8	219	SATL	1.0	1.8	458
19	10	1974	7 4	16° 46.90'	-38° 32.90'	2417.0	10.3	220	0.5	232	9.8	219	SATL	0.2	0.3	460
19	10	1974	844	16° 33.70'	-38° 44.30'	2434.2	10.3	220	0.5	233	9.8	219	SATL	0.9	1.7	462
19	10	1974	10 8	16° 22.60'	-38° 53.90'	2448.6	10.4	219	0.6	225	9.8	219	SATL	0.8	1.4	464
19	10	1974	11 4	16° 15.10'	-39° 0.30'	2458.3	10.3	220	0.5	244	9.8	219	SATL	0.6	0.9	466
19	10	1974	1156	16° 8.30'	-39° 6.30'	2467.2	10.4	219	0.6	219	9.8	219	SATL	0.5	0.9	468
19	10	1974	1248	16° 1.30'	-39° 12.20'	2476.2	10.7	220	0.9	229	9.8	219	SATL	0.6	0.9	470
19	10	1974	1310	15° 58.30'	-39° 14.80'	2480.1	10.2	220	0.5	242	9.8	219	SATL	0.4	0.4	472
19	10	1974	1458	15° 44.20'	-39° 27.10'	2498.5	10.3	219	0.5	221	9.8	219	SATL	0.9	1.8	474
19	10	1974	1644	15° 30.10'	-39° 39.00'	2516.7	10.4	219	0.6	222	9.8	219	SATL	0.9	1.8	476
19	10	1974	1830	15° 15.90'	-39° 51.00'	2535.0	10.2	219	0.4	220	9.8	219	SATL	1.0	1.8	478
19	10	1974	20 0	15° 4.00'	-40° 1.00'	2550.3	10.2	218	0.4	206	9.8	219	SATL	0.7	1.5	480
19	10	1974	2146	14° 49.90'	-40° 12.00'	2568.3	10.3	219	0.5	217	9.8	219	SATL	0.8	1.8	482
19	10	1974	2344	14° 34.20'	-40° 34.20'	2588.5	10.3	221	0.6	256	9.8	219	SATL	1.0	2.0	484
20	10	1974	0 0	14° 32.1'	-40° 27.6'	2591.3	10.3	221	0.6	256	9.8	219				485
20	10	1974	052	14° 25.40'	-40° 33.60'	2600.2	10.3	221	0.6	255	9.8	219	SATL	0.7	1.1	487
20	10	1974	244	14° 10.90'	-40° 46.60'	2619.4	10.4	221	0.7	251	9.8	219	SATL	1.2	1.9	489
20	10	1974	412	13° 59.40'	-40° 56.90'	2634.6	10.3	220	0.5	242	9.8	219	SATL	1.0	1.5	491
20	10	1974	558	13° 45.50'	-41° 9.00'	2652.8	11.1	223	1.5	251	9.8	219	SATL	1.0	1.8	493
20	10	1974	618	13° 42.80'	-41° 11.60'	2656.5	10.2	219	0.4	212	9.8	219	SATL	0.5	0.3	495
20	10	1974	618	13° 42.8'	-41° 11.6'	2656.5	10.2	218	0.4	212	9.8	218	C/C			496
20	10	1974	738	13° 32.00'	-41° 20.20'	2670.2	10.3	219	0.6	243	9.8	218	SATL	0.6	1.3	498
20	10	1974	8 2	13° 28.80'	-41° 28.80'	2674.3	10.5	219	0.7	239	9.8	218	SATL	0.3	0.4	500
20	10	1974	11 6	13° 4.00'	-41° 43.80'	2706.4	10.8	221	1.2	246	9.8	218	SATL	2.2	3.1	502
20	10	1974	1158	12° 56.90'	-41° 50.10'	2715.8	10.3	221	0.7	265	9.8	218	SATL	1.1	0.9	504
20	10	1974	1218	12° 54.30'	-41° 52.40'	2719.2	10.7	219	0.9	229	9.8	218	SATL	0.3	0.3	506
20	10	1974	1220	12° 54.0'	-41° 54.0'	2719.6	10.7	217	0.9	229	9.8	216	C/C			507
20	10	1974	1346	12° 41.80'	-42° 2.10'	2734.9	10.6	217	0.8	235	9.8	216	SATL	1.4	1.5	509
20	10	1974	14 6	12° 39.00'	-42° 4.30'	2738.4	10.6	217	0.8	235	9.8	216	SATL	0.3	0.3	511
20	10	1974	1415	12° 37.7'	-42° 5.3'	2740.0	10.6	220	0.8	235	9.8	219	C/C			512
20	10	1974	1556	12° 24.10'	-42° 17.10'	2757.9	10.6	220	0.8	235	9.8	219	SATL	1.6	1.8	514
20	10	1974	1740	12° 10.10'	-42° 29.20'	2776.2	10.5	221	0.8	241	9.8	219	SATL	1.4	1.7	516
20	10	1974	18 4	12° 6.90'	-42° 32.00'	2780.4	10.4	221	0.7	246	9.8	219	SATL	0.4	0.4	518
20	10	1974	1810	12° 6.1'	-42° 32.7'	2781.4	10.4	219	0.7	246	9.8	217	C/C			519
20	10	1974	1856	11° 59.90'	-42° 37.80'	2789.4	10.4	220	0.8	260	9.8	217	SATL	0.6	0.9	521
20	10	1974	1948	11° 53.00'	-42° 43.70'	2798.4	10.5	217	0.7	225	9.8	217	SATL	0.7	0.9	523
20	10	1974	2010	11° 50.0'	-42° 46.1'	2802.2	10.5	216	0.7	225	9.8	215	C/C			524
20	10	1974	2040	11° 45.70'	-42° 49.20'	2807.5	10.4	218	0.8	263	9.8	215	SATL	0.6	0.9	526
21	10	1974	0 0	11° 18.6'	-43° 11.2'	2842.1	10.4	218	0.8	263	9.8	215				527
21	10	1974	140	11° 5.1'	-43° 22.1'	2859.3	8.1	200	0.8	263	7.8	195	C/CS			528
21	10	1974	146	11° 4.30'	-43° 22.40'	2860.2	7.3	200	0.9	321	7.8	195	SATL	4.3	5.1	530
21	10	1974	346	10° 50.6'	-43° 27.6'	2874.8	10.4	278	0.9	321	9.8	275	C/CS			531
21	10	1974	510	10° 52.70'	-43° 42.30'	2889.4	10.7	275	0.9	277	9.8	275	SATL	3.0	3.4	533
21	10	1974	542	10° 53.2'	-43° 48.1'	2895.1	7.6	275	0.9	277	6.7	275	C/S			534
21	10	1974	545	10° 53.2'	-43° 48.5'	2895.5	6.5	275	0.9	277	5.6	275	C/S			535
21	10	1974	555	10° 53.3'	-43° 49.6'	2896.6	10.7	275	0.9	277	9.8	275	C/S			536
21	10	1974	615	10° 53.7'	-43° 53.2'	2900.1	7.6	275	0.9	277	6.7	275	C/S			537
21	10	1974	718	10° 54.40'	-44° 1.30'	2908.1	6.1	267	1.1	146	6.7	275	SATL	2.0	2.1	539
21	10	1974	729	10° 54.3'	-44° 2.4'	2909.2	6.0	17	1.1	146	6.7	10	C/C	2.0	2.1	539
21	10	1974	8 5													

APPENDIX A - *Continued*

Da	Mo	Yr	Time	Latitude	Longitude	Dist.	Actual		Drift		Dr		Comment	Drift		
							Speed	Course	Speed	Hed.	Speed	Course		Dist.	Time	No.
21	10	1974	1055	10°54.90'	-44° 2.30'	2931.3	6.7	190	0.0	0	6.7	190	S353	0.8	0.6	552
21	10	1974	1055	10°54.9'	-44° 2.3'	2931.3	0.0	0	0.0	0	500	STOP				553
25	10	1974	058	10°54.90'	-44° 2.30'	2931.3	0.7	267	0.7	267	0.0	500	DEP	0.1	86.0	555
25	10	1974	058	10°54.9'	-44° 2.3'	2931.3	7.4	261	0.7	267	6.7	260	U/W	0.1		556
25	10	1974	133	10°54.2'	-44° 6.6'	2935.6	10.7	260	0.7	267	10.0	260	C/S			557
25	10	1974	245	10°52.1'	-44° 19.5'	2948.4	10.3	208	0.7	267	10.0	205	C/C			558
25	10	1974	310	10°48.3'	-44° 21.5'	2952.7	7.8	209	0.7	267	7.5	205	C/S			559
25	10	1974	334	10°45.6'	-44° 23.1'	2955.8	9.0	209	0.7	267	8.7	205	C/S			560
25	10	1974	335	10°45.4'	-44° 23.2'	2956.0	9.9	208	0.7	267	9.6	205	C/S			561
25	10	1974	336	10°45.3'	-44° 23.2'	2956.1	10.0	182	0.7	267	10.0	178	C/CS			562
25	10	1974	346	10°43.60'	-44° 23.30'	2957.8	10.1	179	0.3	247	10.0	178	SATL	1.9	2.8	564
25	10	1974	530	10°26.10'	-44° 23.10'	2975.3	9.9	179	0.2	320	10.0	178	SATL	0.5	1.7	566
25	10	1974	550	10°22.8'	-44° 23.0'	2978.6	9.9	175	0.2	320	10.0	174	C/C			567
25	10	1974	720	10° 8.10'	-44° 21.60'	2993.4	10.0	176	0.3	261	10.0	174	SATL	0.4	1.8	569
25	10	1974	830	9°56.4'	-44° 20.7'	3005.1	10.0	178	0.3	261	10.0	176	C/C			570
25	10	1974	1116	9°28.70'	-44° 19.60'	3032.8	9.1	178	0.9	337	10.0	176	SATL	1.2	3.9	572
25	10	1974	1247	9°14.9'	-44° 19.1'	3046.7	9.1	180	0.9	337	10.0	178	C/C			573
25	10	1974	13 0	9°12.90'	-44° 19.10'	3048.6	10.6	176	0.6	151	10.0	178	SATL	1.7	1.7	575
25	10	1974	1448	8°53.90'	-44° 17.90'	3067.7	10.2	182	0.8	254	10.0	178	SATL	1.2	1.8	577
25	10	1974	1512	8°49.8'	-44° 18.1'	3071.8	10.2	183	0.8	254	10.0	179	C/C			578
25	10	1974	1528	8°47.10'	-44° 18.20'	3074.5	9.2	182	1.0	329	10.0	179	SATL	0.6	0.7	580
25	10	1974	1610	8°40.7'	-44° 18.4'	3080.9	9.2	180	1.0	329	10.0	177	C/C			581
25	10	1974	1840	8°17.80'	-44° 18.40'	3103.8	10.8	180	1.0	218	10.0	177	SATL	3.2	3.2	583
25	10	1974	1920	8°10.60'	-44° 18.40'	3111.0	9.0	185	1.6	308	10.0	177	SATL	0.7	0.7	585
25	10	1974	2024	8° 1.00'	-44° 19.20'	3120.6	9.4	177	0.6	4	10.0	177	SATL	1.8	1.1	587
25	10	1974	2245	7°39.0'	-44° 17.9'	3142.7	9.4	172	0.6	4	10.0	173	C/C			588
26	10	1974	0 0	7°27.3'	-44° 16.3'	3154.4	9.4	172	0.6	4	10.0	173				589
26	10	1974	226	7° 4.70'	-44° 13.20'	3177.3	9.1	168	1.3	32	10.0	173	SATL	3.8	6.0	591
26	10	1974	342	6°53.5'	-44° 10.8'	3188.7	9.0	170	1.3	32	10.0	175	C/C			592
26	10	1974	444	6°44.30'	-44° 9.20'	3198.1	8.5	164	2.3	39	10.0	175	SATL	2.9	2.3	594
26	10	1974	510	6° 40.7'	-44° 8.2'	3210.8	8.3	175	2.3	39	10.0	184	C/C			595
26	10	1974	632	6°29.50'	-44° 7.20'	3213.0	8.5	170	2.7	54	10.0	184	SATL	4.1	1.8	597
26	10	1974	653	6°26.6'	-44° 6.7'	3216.0	8.1	182	2.7	54	10.0	194	C/C			598
26	10	1974	756	6°18.10'	-44° 6.90'	3224.5	7.6	185	2.8	40	10.0	194	SATL	3.9	1.4	600
26	10	1974	940	6° 5.0'	-44° 8.0'	3237.6	7.3	241	2.8	40	10.0	235	C/C			601
26	10	1974	942	6° 4.9'	-44° 8.2'	3237.9	4.8	244	2.8	40	7.5	235	C/S			602
26	10	1974	957	6° 4.3'	-44° 9.3'	3239.1	4.7	228	2.8	40	7.5	225	C/C			603
26	10	1974	10 4	6° 4.0'	-44° 9.7'	3239.6	6.1	291	2.8	40	7.5	270	C/C			604
26	10	1974	1035	6° 5.1'	-44° 12.6'	3242.8	5.2	177	2.8	40	7.5	192	C/C			605
26	10	1974	1136	5°59.80'	-44° 12.40'	3248.1	5.4	174	2.9	47	7.5	192	SATL	10.3	3.7	607
26	10	1974	1241	5°54.00'	-44° 11.80'	3253.9	7.5	192	0.0	0	7.5	192	S354	3.2	1.1	609
26	10	1974	1241	5°54.0'	-44° 11.8'	3253.9	0.0	0	0.0	0	0.0	500	STOP			610
31	10	1974	1422	5°54.00'	-44° 11.80'	3253.9	2.1	34	2.1	34	0.0	500	DEP	0.1	121.7	612
31	10	1974	1422	5°54.0'	-44° 11.8'	3253.9	4.9	176	2.1	34	6.7	187	U/W			613
31	10	1974	1428	5°53.5'	-44° 11.8'	3254.4	4.9	179	2.1	34	6.7	189	C/C			614
31	10	1974	1451	5°51.6'	-44° 11.7'	3256.3	9.6	128	2.1	34	10.0	140	C/CS			615
31	10	1974	1530	5°47.8'	-44° 6.7'	3262.5	9.5	133	2.1	34	10.0	145	C/C			616
31	10	1974	1552	5°45.40'	-44° 4.20'	3266.0	9.3	130	2.6	32	10.0	145	SATL	3.2	1.5	618
31	10	1974	1740	5°34.70'	-43° 51.30'	3282.7	9.0	134	2.1	20	10.0	145	SATL	4.8	1.8	620
31	10	1974	18 0	5°32.6'	-43° 32.6'	3285.7	8.5	148	2.1	20	10.0	158	C/C			621
31	10	1974	19 2	5°25.10'	-43° 44.50'	3294.5	9.2	149	1.7	35	10.0	158	SATL	2.9	1.4	623
31	10	1974	1940	5°20.10'	-43° 41.50'	3300.4	9.2	149	1.6	36	10.0	158	SATL	1.1	0.6	625
31	10	1974	2015	5°15.4'	-43° 38.7'	3305.8	3.1	131	1.6	36	3.6	158	C/S			626
31	10	1974	2017	5°15.4'	-43° 38.7'	3305.9	6.8	146	1.6	36	7.5	158	C/S			627
31	10	1974	2024	5°14.7'	-43° 38.2'	3306.7	9.2	149	1.6	36	10.0	158	C/S			628
31	10	1974	2046	5°11.80'	-43° 36.50'	3310.0	9.1	155	1.0	4	10.0	158	SATL	1.8	1.1	630
31	10	1974	2111	5° 8.4'	-43° 34.9'	3313.8	9.2	148	1.0	4	10.0	151	C/C			631
31	10	1974	2246	4°56.10'	-43° 27.10'	3328.4	9.5	152	0.5	313	10.0	151	SATL	2.1	2.0	633
31	10	1974	23 6	4°53.30'	-43° 25.60'	3331.5	9.1	151	0.9	331	10.0	151	SATL	0.2	0.3	635
31	10	1974	2330	4°50.1'	-43° 23.8'	3335.2	9.1	144	0.9	331	10.0	145	C/C			636
1	10	1974	0 0	4°46.4'	-43° 21.2'	3339.7	9.1	144	0.9	331	10.0	145				637
1	11	1974	028	4°43.00'	-43° 18.70'	3343.9	9.4	174	0.6	297	10.0	145	SATL	1.3	1.4	639
1	11	1974	1 0	4°38.8'	-43° 15.9'	3349.0	9.7	142	0.6	297	10.0	140	C/C			640
1	11	1974	214	4°29.70'	-43° 8.70'	3360.6	9.1	143	1.0	292	10.0	140	SATL	1.2	1.8	642
1	11	1974	240	4°26.5'	-43° 6.3'	3364.5	9.1	137	1.0	292	10.0	135	C/C			643
1	11	1974	328	4°21.20'	-43° 1.40'	3371.8	9.8	137	0.4	261	10.0	135	SATL	1.3	1.2	645
1	11	1974	514	4° 8.60'	-42° 49.60'	3389.0	9.4	141	1.2	259	10.0	135	SATL	0.8	1.8	647
1	11	1974	632	3°59.10'	-42° 41.90'	3401.2	9.0	141	1.4	273	10.0	135	SATL	1.6	1.3	649
1	11	1974	7 8	3°54.90'	-42° 38.50'	3406.6	9.2	141	1.3	267	10.0	135	SATL	0.9	0.6	651
1	11	1974	816	3°46.80'	-42° 31.90'	3417.1	8.8	142	1.7	276	10.0	135	SATL	1.5	1.1	653
1	11	1974	836	3°44.50'	-42° 30.10'	3420.0	9.4	143	1.4	252	10.0	135	SATL	0.6	0.3	655
1	11	1974	9 0	3°41.5'	-42° 27.8'	3423.8	9.4	140	1.4	252	10.0	132	C/C			656
1	11	1974	1018	3°32.20'	-42° 19.90'	3435.9	9.2									

APPENDIX A - Continued

Da	Mo	Yr	Time	Latitude	Longitude	Dist.	Actual		Drift		Dr		Comment	Dist	Time	No.
							Speed	Course	Speed	Hed.	Speed	Course				
1	11	1974	1650	2°44.90'	-41°40.90'	3497.2	9.1	141	1.8	256	10.0	132	SATL	3.1	1.7	670
1	11	1974	1846	2°31.10'	-41°29.90'	3514.9	8.8	139	1.7	270	10.0	132	SATL	3.5	1.9	672
1	11	1974	2334	1°59.00'	-41° 2.20'	3557.2	8.5	134	1.5	303	10.0	132	SATL	8.0	4.8	674
2	11	1974	0 0	1°56.4'	-40°59.5'	3560.9	8.5	134	1.5	303	10.0	132	SATL	2.6	1.7	675
2	11	1974	116	1°49.00'	-40°51.70'	3571.7	8.5	139	1.8	279	10.0	132	SATL	C/C		678
2	11	1974	4 1	1°31.4'	-40°36.1'	3595.2	9.1	164	1.8	279	10.0	155	C/C			679
2	11	1974	420	1°28.6'	-40°35.4'	3598.1	8.5	139	1.8	279	10.0	132	SATL	10.6	5.9	681
2	11	1974	7 8	1°10.70'	-40°19.50'	3622.0	8.6	136	1.6	287	10.0	132	SATL	2.9	1.8	683
2	11	1974	856	0°59.50'	-40° 8.80'	3637.5	8.4	139	2.0	280	10.0	132	SATL	1.2	0.6	685
2	11	1974	930	0°55.90'	-40° 5.70'	3642.3	8.6	138	1.7	283	10.0	132	SATL	3.2	1.9	687
2	11	1974	1122	0°44.10'	-39°54.90'	3658.3	9.1	136	1.1	281	10.0	132	C/C			688
2	11	1974	1310	0°32.4'	-39°43.4'	3674.6	9.2	141	1.1	281	10.0	137	C/S			689
2	11	1974	1337	0°29.2'	-39°40.8'	3678.8	5.9	143	1.1	281	6.7	137	C/S			690
2	11	1974	14 0	0°27.4'	-39°39.5'	3681.0	8.2	141	1.1	281	9.0	137	C/C			691
2	11	1974	1442	0°23.0'	-39°35.9'	3686.7	8.2	147	1.1	281	9.0	142	C/C			692
2	11	1974	16 0	0°14.00'	-39°30.10'	3697.4	8.7	143	0.3	307	9.0	142	SATL	5.0	4.6	693
2	11	1974	16 0	0°14.0'	-39°30.1'	3697.4	8.7	139	0.3	307	9.0	139	C/C			694
2	11	1974	1748	0° 2.10'	-39°19.90'	3713.1	8.4	138	0.6	331	9.0	139	SATL	0.6	1.8	696
2	11	1974	1834	0°-2.79'	-39°15.60'	3719.5	8.6	139	0.4	313	9.0	139	SATL	0.5	0.8	698
2	11	1974	2020	0°14.29'	-39° 5.70'	3734.7	8.4	137	0.7	346	9.0	139	SATL	0.8	1.8	700
2	11	1974	21 6	0°18.99'	-39° 1.30'	3741.1	9.0	136	0.4	44	9.0	139	SATL	0.6	0.8	702
3	11	1974	0 0	0°37.8'	-38°43.4'	3767.2	9.0	136	0.4	44	9.0	139				703
3	11	1974	054	0°43.6'	-38°37.8'	3775.2	7.9	141	0.4	44	8.0	144	C/CS			704
3	11	1974	338	- 1° 0.50'	-38°24.20'	3796.9	8.3	144	0.3	148	8.0	144	SATL	2.7	6.5	706
3	11	1974	6 2	- 1°16.70'	-38°12.50'	3816.9	7.7	143	0.4	352	8.0	144	SATL	0.8	2.4	708
3	11	1974	842	- 1°32.90'	-38° 0.10'	3837.3	9.3	143	1.3	137	8.0	144	SATL	1.1	2.7	710
3	11	1974	1030	- 1°46.30'	-37°50.00'	3854.1	8.4	150	1.0	213	8.0	144	SATL	2.4	1.8	712
3	11	1974	1030	- 1°46.3'	-37°50.0'	3854.1	3.8	143	1.0	213	8.0	136	C/C			713
4	11	1974	0 0	- 3°15.0'	-36°42.0'	3965.8	8.3	143	1.0	213	8.0	136				714
4	11	1974	252	- 3°33.80'	-36°27.50'	3989.5	8.2	135	0.2	110	8.0	136	SATL	15.9	16.4	716
4	11	1974	436	- 3°43.90'	-36°17.50'	4003.7	8.2	130	0.8	54	8.0	136	SATL	0.4	1.7	718
4	11	1974	826	- 4° 4.10'	-35°53.60'	4035.0	7.7	132	0.6	18	8.0	136	SATL	3.2	3.8	720
4	11	1974	940	- 4°10.50'	-35°46.50'	4044.5	8.2	135	0.2	103	8.0	136	SATL	0.8	1.2	722
4	11	1974	1144	- 4° 22.50'	-35°34.50'	4061.5	8.0	136	0.0	335	8.0	136	SATL	0.5	2.1	724
4	11	1974	1144	- 4° 22.5'	-35°34.5'	4061.5	8.0	142	0.0	335	8.0	142	C/C			725
4	11	1974	1246	- 4°29.00'	-35°29.40'	4069.7	8.2	141	0.3	113	8.0	142	SATL	0.1	1.0	727
4	11	1974	1426	- 4°39.70'	-35°20.80'	4083.4	8.1	138	0.5	62	8.0	142	SATL	0.5	1.7	729
4	11	1974	16 8	- 4°50.00'	-35°11.60'	4097.2	8.0	142	0.1	69	8.0	142	SATL	0.9	1.7	731
4	11	1974	16 8	- 4°50.0'	-35°11.6'	4097.2	8.4	154	0.1	69	8.4	154	C/CS			732
4	11	1974	18 6	- 5° 4.80'	-35° 4.20'	4113.8	9.5	155	1.1	165	8.4	154	SATL	0.2	2.0	734
4	11	1974	18 6	- 5° 4.8'	-35° 4.2'	4113.8	9.1	169	1.1	165	8.0	169	C/CS			735
4	11	1974	1952	- 5°20.50'	-35°1.00'	4129.8	9.9	170	1.9	173	8.0	169	SATL	1.9	1.8	737
5	11	1974	0 0	- 6° 0.8'	-34°53.7'	4170.7	9.9	170	1.9	173	8.0	169				738
5	11	1974	716	- 7° 11.60'	-34°40.90'	4242.7	7.6	168	0.4	7	8.0	169	SATL	21.8	11.4	740
5	11	1974	716	- 7° 11.6'	-34°40.9'	4242.7	9.6	181	0.4	7	8.0	181	SATL			741
5	11	1974	854	- 7°27.20'	-34°41.10'	4258.3	9.4	183	0.7	336	10.0	181	SATL	0.8	1.6	743
5	11	1974	1042	- 7°44.10'	-34°41.90'	4275.2	9.3	180	0.7	10	10.0	181	SATL	1.2	1.8	745
5	11	1974	1042	- 7°44.1'	-34°41.9'	4275.2	9.3	192	0.7	10	10.0	192	C/C			746
5	11	1974	1152	- 7°54.70'	-34°44.20'	4286.0	9.8	192	0.2	30	10.0	192	SATL	0.9	1.2	748
5	11	1974	1152	- 7°54.7'	-34°44.2'	4286.0	9.8	197	0.2	30	10.0	197	C/C			749
5	11	1974	1236	- 8° 1.60'	-34°46.30'	4293.2	10.0	197	0.1	55	10.0	197	SATL	0.2	0.7	751
5	11	1974	1236	- 8° 1.6'	-34°46.3'	4293.2	4.7	273	0.1	55	4.7	273	C/CS			752
5	11	1974	1340	- 8° 1.30'	-34°51.30'	4298.2	4.7	273	0.0	49	4.7	273	SATL	0.1	1.1	754
5	11	1974	1340	- 8° 1.3'	-34°51.3'	4298.2	1.7	201	0.0	49	1.7	201	C/CS			755
5	11	1974	15 0	- 8° 3.40'	-34°52.10'	4300.4	1.7	210	0.0	0	1.7	210	PORT	0.1	1.3	757
5	11	1974	15 0	- 8° 3.4'	-34°52.1'	4300.4	0.0	0	0.0	0	0.0	500	S OP			758
6	11	1974	1330	- 8° 3.40'	-34°52.10'	4300.4	1.4	318	1.4	318	0.0	500	DEP	0.1	22.5	760
6	11	1974	1330	- 8° 3.4'	-34°52.1'	4300.4	6.1	152	1.4	318	7.3	149	U/W			761
6	11	1974	1618	- 8°18.40'	-34°43.90'	4317.5	7.7	152	0.4	210	7.5	149	DEP	4.1	2.8	673
6	11	1974	1618	- 8°18.4'	-34°43.9'	4317.5	10.2	156	0.4	210	10.0	154	C/CS			764
6	11	1974	1742	- 8°31.50'	-34°38.00'	4331.8	10.2	154	0.2	136	10.0	154	SATL	0.7	1.4	766
6	11	1974	1926	- 8°47.30'	-34°30.10'	4349.4	10.2	150	0.6	77	10.0	154	SATL	0.4	1.7	768
6	11	1974	2122	- 9° 4.40'	-34°20.30'	4369.1	10.0	152	0.4	58	10.0	154	SATL	1.3	1.9	770
6	11	1974	2310	- 9°20.20'	-34°11.70'	4387.0	10.1	151	0.5	70	10.0	154	SATL	0.8	1.8	772
7	11	1974	0 0	- 9°27.5'	-34° 7.6'	4395.4	10.1	151	0.5	70	10.0	154				773
7	11	1974	216	- 9°47.50'	-33°56.30'	4418.3	10.2	149	0.9	75	10.0	154	SATL	1.7	3.1	775
7	11	1974	4 0	-10° 2.70'	-33°47.10'	4436.0	10.3	150	0.7	91	10.0	154	SATL	1.6	1.7	777
7	11	1974	5 6	-10°12.60'	-33°41.40'	4447.3	10.7	148	1.3	97	10.0	154	SATL	0.8	1.1	779
7	11	1974	550	-10°19.30'	-33°37.20'	4455.2	10.5	150	0.9	95	10.0	154	SATL	1.0	0.7	781
7	11	1974	720	-10°32.90'	-33°29.20'	4470.9	10.8	149	1.2	102	10.0	154	SATL	1.3	1.5	783
7	11	1974	836	-10°44.60'	-33°22.00'	4484.6	10.7	150	0.9	108	10.0	154	SATL	1.6	1.3	785
7	11	1974	1150	-11°14.60'	-33° 4.60'	4519.1	11.1	149	1.5	109	10.0	154	SATL</td			

APPENDIX A - Continued

Da	Mo	Yr	Time	Latitude	Longitude	Dist.	Actual		Drift Speed	Dr. Hed.	Course	Comment	Drift			
							Speed	Course					Dist.	Time	No.	
7	11	1974	2218	-13° 0.40'	-32° 14.40'	4636.0	10.5	155	0.5	171	10.0	154	SATL	1.6	1.7	801
7	11	1974	23 0	-13° 7.1'	-32° 11.2'	4643.3	10.5	151	0.5	171	10.0	150	C/C			802
7	11	1974	2316	-13° 9.50'	-32° 9.80'	4646.1	10.5	148	0.6	110	10.0	150	SATL	0.6	1.0	804
8	11	1974	0 0	-13° 16.0'	-32° 5.6'	4653.8	10.5	148	0.6	110	10.0	150				805
8	11	1974	0 6	-13° 16.90'	-32° 5.00'	4654.9	10.2	150	0.2	139	10.0	150	SATL	0.6	0.8	807
8	11	1974	1 2	-13° 25.10'	-32° 0.10'	4664.3	10.2	151	0.3	194	10.0	150	SATL	0.2	0.9	809
8	11	1974	312	-13° 44.40'	-31° 49.10'	4686.4	10.2	150	0.2	157	10.0	150	SATL	0.6	2.2	811
8	11	1974	345	-13° 49.3'	-31° 46.2'	4692.0	10.2	155	0.2	157	10.0	155	C/C			812
8	11	1974	5 2	-14° 1.20'	-31° 40.50'	4705.2	10.5	152	0.4	152	10.0	155	SATL	0.5	0.6	814
8	11	1974	540	-14° 7.10'	-31° 37.30'	4711.8	10.4	155	0.4	152	10.0	155	SALT	0.5	0.6	816
8	11	1974	816	-14° 31.50'	-31° 25.50'	4738.8	10.4	158	0.6	204	10.0	155	SATL	1.0	2.6	818
8	11	1974	10 4	-14° 48.80'	-31° 18.10'	4757.5	10.6	156	0.7	179	10.0	155	SATL	1.1	1.8	820
8	11	1974	1044	-14° 55.3'	-31° 15.2'	4764.6	10.6	154	0.7	179	10.0	152	C/C			821
8	11	1974	1056	-14° 57.20'	-31° 14.20'	4766.7	10.4	153	0.5	182	10.0	152	SATL	0.6	0.9	823
8	11	1974	1148	-15° 5.30'	-31° 10.00'	4775.8	10.5	153	0.5	177	10.0	152	SATL	0.5	0.9	825
8	11	1974	1242	-15° 13.70'	-31° 5.60'	4785.2	10.2	151	0.3	131	10.0	152	SATL	0.5	0.9	827
8	11	1974	1438	-15° 31.10'	-30° 55.80'	4805.0	10.3	151	0.4	128	10.0	152	SATL	0.5	1.9	829
8	11	1974	16 5	-15° 44.2'	-30° 48.3'	4820.0	6.9	79	0.4	128	6.7	77	C/CS			830
8	11	1974	1626	-15° 43.80'	-30° 45.80'	4822.4	5.9	78	0.8	248	6.7	77	SATL	0.7	1.8	832
8	11	1974	1716	-15° 42.80'	-30° 40.80'	4827.3	5.5	81	1.3	239	6.7	77	SATL	0.7	0.8	834
8	11	1974	1820	-15° 41.90'	-30° 34.80'	4833.2	6.8	84	0.8	161	6.7	77	SATL	1.4	1.1	836
8	11	1974	1834	-15° 41.7'	-30° 33.2'	4834.8	6.6	252	0.8	161	6.7	259	C/C			837
8	11	1974	19 0	-15° 42.60'	-30° 36.00'	4837.7	6.7	259	0.0	55	6.7	259	S355	0.6	0.7	839
8	11	1974	19 0	-15° 42.6'	-30° 36.0'	4837.7	0.0	55	0.0	55	0.0	500				840
12	11	1974	1028	-15° 42.2'	-30° 35.4'	4838.4	6.0	217	0.0	55	6.0	217	U/W			841
12	11	1974	1044	-15° 43.5'	-30° 36.4'	4840.0	10.0	217	0.0	55	10.0	217	C/S			842
12	11	1974	1048	-15° 44.00'	-30° 36.80'	4840.7	9.0	219	1.1	17	10.0	217	SATL	0.8	87.8	844
12	11	1974	1158	-15° 52.10'	-30° 43.70'	4851.1	8.5	219	1.5	27	10.0	217	SATL	1.3	1.2	846
12	11	1974	1236	-15° 56.30'	-30° 47.20'	4856.5	9.3	218	0.8	19	10.0	217	SATL	1.0	0.6	848
12	11	1974	1314	-16° 0.90'	-30° 51.00'	4862.4	9.0	226	1.8	345	10.0	217	SATL	0.5	0.6	850
12	11	1974	1458	-16° 11.80'	-31° 2.70'	4878.0	9.0	220	1.1	13	10.0	217	SATL	3.1	1.7	852
12	11	1974	18 4	-16° 33.10'	-31° 21.30'	4905.8	9.7	216	0.3	75	10.0	217	SATL	3.6	3.1	854
12	11	1974	1830	-16° 36.5'	-31° 23.9'	4910.0	9.7	214	0.3	75	10.0	215	C/C			855
12	11	1974	1952	-16° 47.60'	-31° 31.60'	4923.4	9.3	216	0.7	18	10.0	215	SATL	0.6	1.8	857
12	11	1974	2134	-17° 0.40'	-31° 41.40'	4939.2	10.0	219	0.7	303	10.0	215	SATL	1.2	1.7	859
12	11	1974	2154	-17° 3.00'	-31° 43.60'	4942.6	8.9	218	1.2	15	10.0	215	SATL	0.3	0.3	861
12	11	1974	2212	-17° 5.10'	-31° 45.30'	4945.2	9.5	214	0.5	51	10.0	215	SATL	0.4	0.3	863
12	11	1974	2320	-17° 14.00'	-31° 51.60'	4956.0	9.5	215	0.5	34	10.0	215	SATL	0.7	1.1	865
12	11	1974	2358	-17° 18.90'	-31° 55.20'	4962.0	9.3	215	0.7	37	10.0	215	SATL	0.4	0.6	867
13	11	1974	0 0	-17° 19.2'	-31° 55.4'	4962.3	9.3	215	0.7	37	10.0	215				868
13	11	1974	244	-17° 40.10'	-32° 10.70'	4987.8	9.7	215	0.3	24	10.0	215	SATL	1.9	2.8	870
13	11	1974	344	-17° 48.0'	-32° 16.6'	4997.5	9.7	218	0.3	24	10.0	218	C/C			871
13	11	1974	7 6	-18° 13.70'	-32° 38.00'	5030.3	10.4	220	0.5	263	10.0	218	SATL	1.3	4.4	873
13	11	1974	746	-18° 19.00'	-32° 42.70'	5037.2	10.3	217	0.4	179	10.0	218	SATL	0.4	0.7	875
13	11	1974	938	-18° 34.50'	-32° 54.80'	5056.5	10.2	214	0.7	139	10.0	218	SATL	0.8	1.9	877
13	11	1974	958	-18° 37.30'	-32° 56.80'	5059.9	9.7	218	0.3	28	10.0	218	SATL	0.3	0.3	879
13	11	1974	11 4	-18° 45.70'	-33° 3.80'	5070.6	10.0	217	0.2	128	10.0	218	SATL	0.4	1.1	881
13	11	1974	1140	-18° 50.50'	-33° 7.60'	5076.6	9.9	219	0.3	331	10.0	218	SATL	0.2	0.6	883
13	11	1974	1330	-19° 4.50'	-33° 19.80'	5094.7	10.3	220	0.4	267	10.0	218	SATL	0.6	1.8	885
13	11	1974	14 8	-19° 9.50'	-33° 24.20'	5101.2	9.8	220	0.5	334	10.0	218	SATL	0.3	0.6	887
13	11	1974	1554	-19° 22.70'	-33° 36.10'	5118.6	10.1	218	0.1	234	10.0	218	SATL	0.9	1.8	889
13	11	1974	1626	-19° 26.9'	-33° 39.6'	5123.9	10.1	217	0.1	234	10.0	217	C/C			890
13	11	1974	17 0	-19° 31.50'	-33° 43.30'	5129.7	11.3	219	1.4	237	10.0	217	SATL	0.2	1.1	892
13	11	1974	1720	-19° 34.4'	-33° 45.8'	5133.4	6.3	221	1.4	237	5.0	217	C/S			893
13	11	1974	1744	-19° 36.30'	-33° 47.60'	5135.9	5.6	213	0.7	179	5.0	217	SATL	1.1	0.7	895
13	11	1974	18 8	-19° 38.2'	-33° 48.9'	5138.2	10.6	215	0.7	179	10.0	217	C/S			896
13	11	1974	1844	-19° 43.40'	-33° 52.70'	5144.5	10.2	219	0.4	278	10.0	217	SATL	0.8	1.0	898
13	11	1974	1912	-19° 47.10'	-33° 55.90'	5149.3	10.3	218	0.3	245	10.0	217	SATL	0.3	0.5	900
13	11	1974	2042	-19° 59.30'	-34° 6.00'	5164.8	9.7	213	0.7	98	10.0	217	SATL	0.6	1.5	902
13	11	1974	21 2	-20° 2.00'	-34° 7.90'	5168.0	10.3	216	0.3	195	10.0	217	SATL	0.3	0.3	904
13	11	1974	23 2	-20° 18.60'	-34° 20.90'	5188.6	10.6	217	0.6	225	10.0	217	SATL	0.7	2.0	906
14	11	1974	0 0	-20° 26.8'	-34° 27.6'	5198.9	10.6	217	0.6	225	10.0	217				907
14	11	1974	016	-20° 29.00'	-34° 29.40'	5201.7	10.2	216	0.3	170	10.0	217	SATL	0.8	1.2	909
14	11	1974	048	-20° 33.40'	-34° 32.80'	5207.1	10.3	218	0.4	243	10.0	217	SATL	0.2	0.5	911
14	11	1974	158	-20° 42.90'	-34° 40.70'	5219.2	10.3	218	0.4	243	10.0	217	SATL	0.5	1.2	913
14	11	1974	344	-20° 57.30'	-34° 52.70'	5237.4	10.5	218	0.5	232	10.0	217	SATL	0.7	1.8	915
14	11	1974	530	-21° 12.00'	-35° 4.90'	5256.0	10.7	218	0.7	237	10.0	217	SATL	1.0	1.8	917
14	11	1974	558	-21° 15.90'	-35° 8.20'	5261.0	10.7	217	0.7	219	10.0	217	SATL	0.4	0.5	919
14	11	1974	744	-21° 30.90'	-35° 20.40'	5279.8	10.4	218	0.5	242	10.0	217	SATL	1.2	1.8	921
14	11	1974	844	-21° 39.10'	-35° 27.30'	5290.2	10.1	217	0.2	199	10.0	217	SATL	0.5	1.0	923
14	11	1974	1014	-21° 51.												

APPENDIX A - Continued

Da	Mo	Yr	Time	Latitude	Longitude	Dist.	Actual		Drift		Dr.		Drift			
							Speed	Course	Speed	Hed.	Speed	Course	Comment	Dist.	Time	No.
14	11	1974	1545	-22° 39.5'	-36° 14.3'	5364.7	10.9	221	0.9	200	10.0	223	C/C			939
14	11	1974	1738	-22° 54.90'	-36° 28.90'	5385.1	10.7	223	0.7	217	10.0	223	SATL	2.4	2.5	941
14	11	1974	1840	-23° 3.00'	-36° 37.00'	5396.1	10.9	224	0.9	230	10.0	223	SATL	0.7	1.0	943
14	11	1974	1924	-23° 8.80'	-36° 43.00'	5404.1	10.5	222	0.5	206	10.0	223	SATL	0.7	0.7	945
14	11	1974	1945	-23° 11.5'	-36° 45.7'	5407.8	10.5	219	0.5	206	10.0	220	C/C			946
14	11	1974	2134	-23° 26.20'	-36° 58.80'	5426.8	10.3	218	0.5	168	10.0	220	SATL	1.1	2.2	948
14	11	1974	2154	-23° 28.90'	-37° 1.10'	5430.2	10.5	219	0.5	210	10.0	220	SATL	0.2	0.3	950
14	11	1974	2322	-23° 40.80'	-37° 11.80'	5445.6	10.0	217	0.5	131	10.0	220	SATL	0.8	1.5	952
14	11	1974	2352	-23° 44.80'	-37° 15.10'	5450.7	10.3	217	0.6	154	10.0	220	SATL	0.3	0.5	954
15	11	1974	0 0	-23° 45.9'	-37° 16.0'	5452.0	10.3	217	0.6	154	10.0	220				955
15	11	1974	256	-24° 9.90'	-37° 35.80'	5482.1	10.2	217	0.6	150	10.0	220	SATL	1.8	3.1	957
15	11	1974	442	-24° 24.30'	-37° 47.70'	5500.1	10.2	217	0.5	154	10.0	220	SATL	1.1	1.8	959
15	11	1974	630	-24° 38.90'	-38° 0.00'	5518.5	10.1	216	0.7	138	10.0	220	SATL	0.9	1.8	961
15	11	1974	758	-24° 50.90'	-38° 9.60'	5533.3	9.6	219	0.5	52	10.0	220	SATL	1.1	1.5	963
15	11	1974	824	-24° 54.10'	-38° 12.50'	5537.5	10.4	216	0.8	160	10.0	220	SATL	0.2	0.4	965
15	11	1974	924	-25° 2.50'	-38° 19.30'	5547.9	10.4	219	0.5	193	10.0	220	SATL	0.8	1.0	967
15	11	1974	944	-25° 5.20'	-38° 21.70'	5551.4	10.2	220	0.3	233	10.0	220	SATL	0.2	0.3	969
15	11	1974	1110	-25° 16.40'	-38° 32.20'	5566.1	10.0	220	0.1	145	10.0	220	SATL	0.4	1.4	971
15	11	1974	1138	-25° 20.00'	-38° 35.50'	5570.7	10.3	220	0.3	222	10.0	220	SATL	0.1	0.5	973
15	11	1974	1328	-25° 34.40'	-38° 48.90'	5589.5	10.3	221	0.3	256	10.0	220	SATL	0.5	1.8	975
15	11	1974	1416	-25° 40.60'	-38° 54.90'	5597.8	9.8	221	0.2	1	10.0	220	SATL	0.3	0.8	977
15	11	1974	16 2	-25° 53.70'	-39° 7.50'	5615.1	9.7	223	0.6	343	10.0	220	SATL	0.5	1.8	979
15	11	1974	1750	-26° 6.50'	-39° 20.70'	5632.5	9.6	223	0.6	349	10.0	220	SATL	1.1	1.8	981
15	11	1974	1818	-26° 9.80'	-39° 24.10'	5637.0	9.3	218	0.8	62	10.0	220	SATL	0.3	0.5	983
15	11	1974	1918	-26° 17.10'	-39° 30.50'	5646.3	9.4	217	0.8	83	10.0	220	SATL	0.8	1.0	985
15	11	1974	20 4	-26° 22.90'	-39° 35.30'	5653.5	9.2	215	1.2	83	10.0	220	SATL	0.7	0.8	987
15	11	1974	2044	-26° 27.90'	-39° 39.20'	5659.6	9.6	216	0.8	99	10.0	220	SATL	0.8	0.7	989
15	11	1974	21 4	-26° 30.50'	-39° 41.30'	5662.9	9.4	216	0.9	85	10.0	220	SATL	0.3	0.3	991
15	11	1974	2228	-26° 41.10'	-39° 49.90'	5675.9	9.2	210	1.9	98	10.0	220	SATL	1.4	1.4	993
15	11	1974	2256	-26° 44.80'	-39° 52.30'	5680.2	8.4	220	1.6	40	10.0	220	SATL	0.9	0.5	995
16	11	1974	0 0	-26° 51.7'	-39° 58.8'	5689.2	8.4	220	1.6	40	10.0	220				996
16	11	1974	016	-26° 53.40'	-40° 0.40'	5691.5	8.7	222	1.4	29	10.0	220	SATL	2.2	1.3	998
16	11	1974	042	-26° 56.20'	-40° 3.20'	5695.2	8.8	221	1.2	34	10.0	220	SATL	0.6	0.4	1000
16	11	1974	210	-27° 6.00'	-40° 12.70'	5708.2	9.0	222	1.1	26	10.0	220	SATL	1.8	1.5	1002
16	11	1974	354	-27° 17.60'	-40° 24.30'	5723.7	9.1	221	0.9	35	10.0	220	SATL	1.9	1.7	1004
16	11	1974	528	-27° 28.40'	-40° 34.70'	5737.9	9.3	219	0.7	48	10.0	220	SATL	1.5	1.6	1006
16	11	1974	712	-27° 40.90'	-40° 46.30'	5754.1	9.5	217	0.7	79	10.0	220	SATL	1.2	1.7	1008
16	11	1974	8 0	-27° 46.9'	-40° 51.5'	5761.6	9.5	209	0.7	79	10.0	212	C/C			1009
16	11	1974	1020	-28° 6.40'	-41° 3.60'	5783.9	9.4	212	0.6	27	10.0	212	SATL	2.3	3.1	1011
16	11	1974	1020	-28° 6.4'	-41° 3.6'	5783.9	9.5	178	0.6	27	10.0	180	C/C			1012
16	11	1974	1045	-28° 10.3'	-41° 3.5'	5787.8	9.4	231	0.6	27	10.0	230	C/C			1013
16	11	1974	1058	-28° 11.6'	-41° 5.3'	5789.9	9.5	178	0.6	27	10.0	180	C/C			1014
16	11	1974	11 0	-28° 11.9'	-41° 5.3'	5790.2	6.1	177	0.6	27	6.6	180	C/S			1015
16	11	1974	12 8	-28° 18.80'	-41° 4.90'	5797.0	7.3	193	1.7	254	6.6	180	SATL	1.1	1.8	1017
16	11	1974	1230	-28° 21.40'	-41° 5.60'	5799.7	6.2	171	1.1	63	6.6	180	SATL	0.7	0.4	1019
16	11	1974	1236	-28° 22.0'	-41° 5.5'	5800.3	7.0	2	1.1	63	6.6	354	C/C			1020
16	11	1974	1317	-28° 27.17.20'	-41° 5.30'	5805.1	6.6	354	0.0	0	6.6	354	S356	0.9	0.8	1022
16	11	1974	1317	-28° 17.2'	-41° 5.3'	5805.1	0.0	0	0.0	0	0.0	500	STOP			1023
21	11	1974	1935	-28° 17.20'	-41° 5.30'	5805.1	0.7	172	0.7	172	0.0	500	DEP	0.1	126.3	1025
21	11	1974	1935	-28° 17.2'	-41° 5.3'	5805.1	7.1	124	0.7	172	6.7	120				1026
21	11	1974	1944	-28° 17.80'	-41° 4.30'	5806.2	5.6	118	1.1	310	6.7	120	SATL	0.2	0.1	1028
21	11	1974	20 6	-28° 18.8'	-41° 2.2'	5808.3	8.1	107	1.1	310	9.1	110	C/CS			1029
21	11	1974	2054	-28° 20.70'	-40° 55.20'	5814.8	8.4	107	0.8	320	9.1	110	SATL	1.3	1.2	1031
21	11	1974	2132	-28° 22.30'	-40° 49.40'	5820.1	8.1	109	1.0	298	9.1	110	SATL	0.5	0.6	1033
21	11	1974	2240	-28° 25.30'	-40° 39.50'	5829.3	8.2	110	0.9	291	9.1	110	SATL	1.8	1.8	1038
22	11	1974	0 0	-28° 29.0'	-40° 27.9'	5840.2	8.2	110	0.9	291	9.1	110	SATL	1.5	2.1	1040
22	11	1974	030	-28° 30.40'	-40° 23.50'	5844.3	8.5	111	0.7	271	9.1	110	SATL	0.5	3.2	1042
22	11	1974	238	-28° 37.00'	-40° 4.40'	5862.3	9.0	111	0.1	234	9.1	110	SATL	0.5	0.3	1044
22	11	1974	548	-28° 47.10'	-39° 33.90'	5890.9	9.2	109	0.2	51	9.1	110	SATL	0.5	1.4	1046
22	11	1974	6 8	-28° 48.10'	-39° 30.60'	5894.0	8.8	114	0.7	223	9.1	110	SATL	0.1	0.3	1047
22	11	1974	734	-28° 53.50'	-39° 17.40'	5906.6	9.2	112	0.4	193	9.1	110	SATL	1.1	1.4	1048
22	11	1974	846	-28° 57.50'	-39° 5.80'	5917.6	8.9	114	0.6	224	9.1	110	SATL	0.5	1.2	1049
22	11	1974	915	-28° 59.2'	-39° 1.3'	5921.9	8.9	112	0.6	224	9.1	108	C/C			1049
22	11	1974	924	-28° 59.70'	-38° 59.90'	5923.2	9.2	110	0.4	191	9.1	108	SATL	0.4	0.6	1051
22	11	1974	1030	-29° 3.20'	-38° 49.10'	5933.3	8.9	109	0.3	238	9.1	108	SATL	0.5	1.1	1053
22	11	1974	1220	-29° 8.60'	-38° 31.40'	5949.7	8.9	110	0.4	230	9.1	108	SATL	0.5	1.8	1055
22	11	1974	1356	-29° 13.50'	-38° 16.10'	5963.9	8.9	109	0.3	246	9.1	108	SATL	0.7	1.6	1057
22	11	1974	1538	-29° 18.50'	-37° 59.80'	5979.0	9.1	108	0.1	214	9.1	108	SATL	0.6	1.7	1059
22	11	1974	1615	-29° 20.3'	-37° 53.7'	5984.6	9.1	106	0.1	214	9.1	106	C/C			1060
22	11	1974	1724	-29° 23.20'	-37° 42.20'	5995.0	8.9	105	0.2	314	9.1	106	SATL	0.1	1.8	1062
22	11	1974	1													

APPENDIX A - Continued

Da	Mo	Yr	Time	Latitude	Longitude	Actual		Drift		Dr	Course	Comment	Drift			
						Dist.	Speed	Course	Speed				Dist.	Time	No.	
23	11	1974	230	-29°44.6'	-36°13.9'	6074.8	7.7	114	1.4	306	9.1	116	C/C		1077	
23	11	1974	332	-29°47.90'	-36° 5.50'	6082.8	8.1	118	1.0	283	9.1	116	SATL	2.4	1.7	1079
23	11	1974	442	-29°52.30'	-35°55.80'	6092.3	8.2	120	1.1	261	9.1	116	SATL	1.2	1.2	1081
23	11	1974	518	-29°54.80'	-35°50.90'	6097.2	8.3	122	1.2	252	9.1	116	SATL	0.7	0.6	1083
23	11	1974	530	-29°55.7'	-35°49.3'	6098.8	8.3	121	1.2	252	9.1	115	C/C			1084
23	11	1974	626	-29°59.60'	-35°41.60'	6106.6	8.6	118	0.8	252	9.1	115	SATL	1.4	1.1	1086
23	11	1974	630	-29°59.9'	-35°41.0'	6107.1	8.4	92	0.8	252	9.1	90	C/C			1087
23	11	1974	645	-29°59.9'	-35°38.6'	6109.2	6.0	92	0.8	252	6.7	90	C/S			1088
23	11	1974	757	-30° 0.2'	-35°30.3'	6116.4	7.4	268	0.8	252	6.7	270	C/C			1089
23	11	1974	820	-30° 0.30'	-35°33.60'	6119.3	6.7	270	0.0	0	6.7	270	S357	1.5	1.9	1091
23	11	1974	820	-30° 0.3'	-35°33.6'	6119.3	0.0	0	0.0	0	0.0	500	STOP	1.5	1.9	1092
28	11	1974	545	-30° 0.30'	-35°33.60'	6119.3	1.1	181	1.1	181	0.0	500	DEP	0.1	117.4	1094
28	11	1974	554	-30° 0.5'	-35°33.6'	6119.4	11.1	182	1.1	181	10.0	182	U/W			1095
28	11	1974	6 4	-30° 2.3'	-35°33.7'	6121.3	8.6	182	1.1	181	7.5	182	C/S			1096
28	11	1974	6 8	-30° 2.90'	-35°33.70'	6121.9	8.4	176	1.2	135	7.5	182	SATL	0.5	0.4	1098
28	11	1974	630	-30° 6.0'	-35°33.4'	6124.9	10.9	177	1.2	135	10.0	182	C/S			1099
28	11	1974	8 4	-30°23.00'	-35°32.50'	6142.0	10.9	176	1.4	126	10.0	182	SATL	2.4	1.9	1101
28	11	1974	8 4	-30°23.0'	-35°32.5'	6142.0	8.9	175	1.4	126	8.0	182	C/S			1102
28	11	1974	819	-30°25.2'	-35°32.3'	6144.2	10.9	176	1.4	126	10.0	182	C/S			1103
28	11	1974	1022	-30°47.40'	-35°30.40'	6166.5	10.4	177	0.9	115	10.0	182	SATL	3.3	2.3	1105
28	11	1974	1044	-30°51.20'	-35°30.20'	6170.3	10.4	174	1.6	104	10.0	182	SATL	0.4	0.4	1107
28	11	1974	1055	-30°53.1'	-35°30.0'	6172.2	6.7	169	1.6	104	6.2	182	C/S			1108
28	11	1974	1118	-30°55.6'	-35°29.4'	6174.7	10.4	174	1.6	104	10.0	182	C/S			1109
28	11	1974	1210	-31° 4.60'	-35°28.20'	6183.8	11.2	176	1.4	150	10.0	182	SATL	2.3	1.4	1111
28	11	1974	1240	-31°10.20'	-35°28.00'	6189.4	10.4	178	0.8	121	10.0	182	SATL	0.7	0.5	1113
28	11	1974	13 2	-31°14.0'	-35°27.9'	6193.2	10.3	188	0.8	121	10.0	192	C/C			1114
28	11	1974	16 2	-31°44.60'	-35°32.80'	6224.1	7.9	189	2.2	22	10.0	192	SATL	2.7	3.4	1116
28	11	1974	1822	-32° 2.7'	-35°36.3'	6242.4	6.5	189	2.2	22	8.6	192	C/S			1117
28	11	1974	1828	-32° 3.4'	-35°36.4'	6243.1	7.9	189	2.2	22	10.0	192	C/S			1118
28	11	1974	1945	-32° 5.6'	-35°36.8'	6245.3	8.0	180	2.2	22	10.0	185	C/C			1119
28	11	1974	2012	-32°17.10'	-35°36.90'	6256.8	9.0	192	1.6	318	10.0	185	SATL	9.1	4.2	1121
28	11	1974	2110	-32°25.60'	-35°39.10'	6165.5	9.3	188	0.8	331	10.0	185	SATL	1.6	1.0	1123
28	11	1974	2158	-32°33.00'	-35°40.30'	6273.0	9.5	188	0.8	318	10.0	185	SATL	0.7	0.8	1125
28	11	1974	2230	-32°38.0'	-35°41.2'	6278.1	9.5	184	0.8	318	10.0	181	C/C			1126
28	11	1974	2324	-32°46.50'	-35°41.90'	6186.6	9.5	183	0.6	322	10.0	181	SATL	1.1	1.4	1128
29	11	1974	0 0	-32°52.2'	-35°42.3'	6292.3	9.5	183	0.6	322	10.0	181				1129
29	11	1974	036	-32°57.90'	-35°42.70'	6298.0	10.0	184	0.6	268	10.0	181	SATL	0.8	1.2	1131
29	11	1974	356	-33°31.30'	-35°45.60'	6331.5	10.0	181	0.0	206	10.0	181	SATL	1.9	3.3	1133
29	11	1974	440	-33°38.7'	-35°45.8'	6338.8	10.0	179	0.0	206	10.0	179	C/C			1134
29	11	1974	5 0	-33°42.00'	-35°45.70'	6342.2	10.2	180	0.2	225	10.0	179	SATL	0.1	1.1	1136
29	11	1974	536	-33°48.10'	-35°45.70'	6348.3	10.0	177	0.3	80	10.0	179	SATL	0.2	0.6	1138
29	11	1974	646	-33°59.70'	-35°45.00'	6359.9	9.8	174	0.9	75	10.0	179	SATL	0.4	1.2	1140
29	11	1974	718	-34°44.90'	-35°44.30'	6365.1	9.6	174	0.9	57	10.0	179	SATL	0.6	0.5	1142
29	11	1974	8 0	-34°11.6'	-35°43.5'	6371.8	9.5	180	0.9	57	10.0	184	C/C			1143
29	11	1974	8 6	-34°12.50'	-35°43.50'	6372.8	9.3	182	0.8	29	10.0	184	SATL	0.8	0.8	1145
29	11	1974	9 6	-34°21.80'	-35°43.90'	6382.1	9.0	177	1.5	48	10.0	184	SATL	0.8	1.0	1147
29	11	1974	930	-34°25.40'	-35°43.70'	6385.7	8.6	189	1.6	337	10.0	184	SATL	0.6	0.4	1149
29	11	1974	952	-34°28.50'	-35°44.30'	6388.8	8.9	183	1.1	12	10.0	184	SATL	0.7	0.4	1151
29	11	1974	1116	-34°41.00'	-35°45.10'	6401.3	8.6	192	1.9	325	10.0	184	SATL	1.6	1.4	1153
29	11	1974	1146	-34°45.20'	-35°46.20'	6405.6	9.4	185	0.7	351	10.0	184	SATL	1.0	0.5	1155
29	11	1974	1336	-35° 2.30'	-35°48.00'	6422.8	9.2	188	1.0	325	10.0	184	SATL	1.3	1.8	1157
29	11	1974	1518	-35°17.80'	-35°50.70'	6438.4	9.7	187	0.6	304	10.0	184	SATL	1.8	1.7	1159
29	11	1974	1650	-35°52.60'	-35°52.90'	6453.4	10.1	183	0.2	114	10.0	184	SATL	0.9	1.5	1161
29	11	1974	1740	-35°41.0'	-35°53.4'	6461.7	10.1	176	0.2	114	10.0	177	C/C			1162
29	11	1974	1832	-35°49.70'	-35°52.70'	6470.5	10.1	176	0.3	109	10.0	177	SATL	0.4	1.7	1164
29	11	1974	2018	-36° 7.50'	-35°51.00'	6488.3	10.3	177	0.3	163	10.0	177	SATL	0.5	1.8	1166
29	11	1974	2042	-36°11.60'	-35°50.70'	6492.4	10.1	175	0.4	104	10.0	177	SATL	0.2	0.4	1168
29	11	1974	21 4	-36°15.30'	-35°50.30'	6496.2	10.0	175	0.3	84	10.0	177	SATL	0.2	0.4	1170
29	11	1974	22 0	-36°24.6'	-35°49.3'	6505.5	10.0	180	0.3	84	10.0	182	C/C			1171
29	11	1974	2226	-36°28.90'	-35°49.30'	6509.8	10.2	178	0.7	102	10.0	182	SATL	0.5	1.4	1173
29	11	1974	2252	-36°33.30'	-35°49.10'	6514.2	10.1	181	0.2	122	10.0	182	SATL	0.4	0.4	1175
30	11	1974	0 0	-36°44.8'	-35°49.3'	6525.6	10.1	181	0.2	122	10.0	182				1176
30	11	1974	014	-36°47.10'	-35°49.40'	6528.0	10.2	183	0.2	225	10.0	182	SATL	0.3	1.4	1178
30	11	1974	043	-36°52.0'	-35°49.7'	6532.9	10.2	184	0.2	225	10.0	183	C/C			1179
30	11	1974	132	-37° 0.30'	-35°50.40'	6541.2	10.3	184	0.3	221	10.0	183	SATL	0.3	1.3	1181
30	11	1974	310	-37°17.00'	-35°51.90'	6558.0	10.0	184	0.1	284	10.0	183	SATL	0.6	1.6	1183
30	11	1974	354	-37°24.30'	-35°52.50'	6565.3	10.4	182	0.4	159	10.0	183	SATL	0.1	0.7	1185
30	11	1974	456	-37°35.00'	-35°53.00'	6576.0	10.6	186	0.8	225	10.0	183	SATL	0.5	1.0	1187
30	11	1974	516	-37°38.5'	-35°53.5'	6579.5	7.3	264	0.8	225	6.7	268	C/CS			1188
30	11	1974	538	-37°38.80'	-35°56.80'	6582.2	7.0	265	0.5	218	6.7	268	SATL	0.6	0.7	1190
30	11	1974	623	-37°39.3'	-36° 3.4'	6587.5	6.4	92	0.5	218	6.7	88	C/C			1191
30	11	1974	630	-37°39.30'	-36° 2.50'	658										

APPENDIX A - Continued

Da	Mo	Yr	Time	Latitude	Longitude	Dist.	Actual		Drift		Dr.	Course	Comment	Drift		
							Speed	Course	Speed	Hed.				Dist.	Time	No.
5	12	1974	10 4	-36°32.20'	-28°50.70'	6939.2	9.5	73	1.2	322	10.0	79	SATL	31.0	37.9	1203
5	12	1974	1130	-36°28.1'	-28°34.5'	6952.9	9.4	80	1.2	322	10.0	86	C/CS			1204
5	12	1974	1218	-36°26.80'	-28°25.30'	6960.4	9.7	81	1.0	338	10.0	86	SATL	2.7	2.2	1206
5	12	1974	1352	-36°24.30'	-28° 6.60'	6975.6	9.8	81	0.9	339	10.0	86	SATL	1.6	1.6	1208
5	12	1974	1412	-36°23.80'	-28° 2.60'	6978.9	9.8	81	0.8	338	10.0	86	SATL	0.3	0.3	1210
5	12	1974	1526	-36°22.00'	-27°47.80'	6990.9	10.0	84	0.3	3	10.0	86	SATL	1.1	1.2	1212
5	12	1974	1710	-36°20.30'	-27°26.30'	7008.3	9.9	84	0.4	347	10.0	86	SATL	0.5	1.7	1214
5	12	1974	1858	-36°18.40'	-27° 4.20'	7026.2	9.1	84	1.0	288	10.0	86	SATL	0.7	1.8	1216
5	12	1974	1928	-26°17.90'	-26°58.60'	7030.8	9.6	84	0.6	308	10.0	86	SATL	0.5	0.5	1218
5	12	1974	2030	-36°16.80'	-26°46.40'	7040.7	9.9	88	0.4	187	10.0	86	SATL	0.7	1.0	1220
5	12	1974	2050	-36°16.70'	-26°42.30'	7044.0	10.0	82	0.7	350	10.0	86	SATL	0.2	0.3	1222
5	12	1974	2116	-36°16.10'	-26°37.00'	7048.3	9.9	83	0.5	345	10.0	86	SATL	0.4	0.4	1224
5	12	1974	2216	-36°14.90'	-26°24.80'	7058.2	9.8	83	0.6	333	10.0	86	SATL	0.6	1.0	1226
5	12	1974	2250	-36°14.2'	-26°18.0'	7063.8	9.8	85	0.6	333	10.0	88	C/C			1227
6	12	1974	0 0	-36°13.2'	-26° 3.9'	7075.1	9.8	85	0.6	93	10.0	85	C/C			1228
6	12	1974	020	-36°12.90'	-25°59.90'	7078.4	9.6	87	0.4	289	10.0	88	SATL	1.3	2.1	1230
6	12	1974	148	-36°12.20'	-25°42.40'	7092.5	10.1	86	0.4	5	10.0	88	SATL	0.6	1.5	1232
6	12	1974	230	-36°11.70'	-25°33.70'	7099.6	10.2	90	0.4	148	10.0	88	SATL	0.3	0.7	1234
6	12	1974	334	-36°11.70'	-25°20.20'	7110.5	10.6	88	0.6	93	10.0	88	SATL	0.5	1.1	1236
6	12	1974	4 5	-36°11.5'	-25°13.4'	7115.9	10.6	85	0.6	93	10.0	85	C/C			1237
6	12	1974	512	-36°10.60'	-24°58.90'	7127.7	10.7	82	0.9	45	10.0	85	SATL	1.0	1.6	1239
6	12	1974	6 0	-36° 9.40'	-24°48.40'	7136.3	10.7	84	0.8	66	10.0	85	SATL	0.8	0.8	1241
6	12	1974	656	-36° 8.30'	-24°36.10'	7146.2	11.4	84	1.4	76	10.0	85	SATL	0.8	0.9	1243
6	12	1974	726	-36° 7.70'	-24°29.10'	7151.9	10.8	84	0.8	70	10.0	85	SATL	0.7	0.5	1245
6	12	1974	824	-36° 6.60'	-24°16.30'	7162.3	10.6	82	0.8	40	10.0	85	SATL	0.8	1.0	1247
6	12	1974	848	-36° 6.00'	-24°11.10'	7166.6	10.4	83	0.5	43	10.0	85	SATL	0.4	0.4	1249
6	12	1974	912	-36° 5.50'	-24° 6.00'	7170.7	10.3	82	0.5	27	10.0	85	SATL	0.3	0.4	1251
6	12	1974	1010	-36° 4.20'	-23°53.80'	7180.7	10.4	84	0.4	62	10.0	85	SATL	0.6	1.0	1253
6	12	1974	1130	-36° 2.80'	-23°36.80'	7194.5	10.8	84	0.8	74	10.0	85	SATL	0.6	1.3	1255
6	12	1974	1155	-36° 2.3'	-23°31.3'	7199.0	10.8	87	0.8	74	10.0	88	C/C			1256
6	12	1974	13 2	-36° 1.70'	-23°16.40'	7211.0	11.7	89	1.7	92	10.0	88	SATL	1.3	1.5	1258
6	12	1974	1322	-36° 1.60'	-23°11.60'	7214.9	11.0	86	1.0	70	10.0	88	SATL	0.6	0.3	1260
6	12	1974	1448	-36° 0.60'	-22°52.20'	7230.6	10.5	88	0.5	93	10.0	88	SATL	1.5	1.4	1262
6	12	1974	16 4	-36° 0.20'	-22°35.70'	7244.0	10.4	85	0.6	40	10.0	88	SATL	0.7	1.3	1264
6	12	1974	1626	-35°59.90'	-22°31.00'	7247.8	10.5	86	0.6	55	10.0	88	SATL	0.3	0.4	1266
6	12	1974	1752	-35°58.90'	-22°12.40'	7262.9	10.8	86	0.9	68	10.0	88	SATL	0.9	1.4	1268
6	12	1974	1810	-35°58.70'	-22° 8.40'	7266.1	9.4	90	0.7	241	10.0	88	SATL	0.3	0.3	1270
6	12	1974	1838	-35°58.70'	-22° 3.00'	7270.5	9.6	89	0.4	249	10.0	88	SATL	0.4	0.5	1272
6	12	1974	1936	-35°58.50'	-21°51.50'	7279.8	9.8	84	0.8	340	10.0	88	SATL	0.4	1.0	1274
6	12	1974	1958	-35°58.10'	-21°47.10'	7283.4	9.5	89	0.5	256	10.0	88	SATL	0.3	0.4	1276
6	12	1974	2024	-35°58.00'	-21°42.00'	7287.5	10.0	85	0.5	354	10.0	88	SATL	0.3	0.4	1278
6	12	1974	2212	-35°56.50'	-21°19.90'	7305.5	9.7	81	1.2	339	10.0	88	SATL	0.9	1.8	1280
6	12	1974	23 8	-35°55.10'	-21° 8.90'	7314.5	9.1	82	1.3	311	10.0	88	SATL	1.2	0.9	1282
6	12	1974	2328	-35°54.70'	-21° 5.20'	7317.5	9.3	81	1.4	323	10.0	88	SATL	0.5	0.3	1284
7	12	1974	0 0	-35°53.9'	-21°59.2'	7322.4	9.3	81	1.4	323	10.0	88	SATL	2.2	1.6	1285
7	12	1974	1 2	-35°52.40'	-20°52.40'	7332.0	9.6	84	0.9	325	10.0	88	SATL	1.9	2.1	1287
7	12	1974	3 8	-35°50.20'	-20°22.90'	7352.1	9.2	86	0.9	293	10.0	88	SATL	1.2	1.3	1289
7	12	1974	424	-35°49.30'	-20° 8.60'	7363.7	9.6	88	0.4	277	10.0	88	SATL	0.3	0.5	1291
7	12	1974	454	-35°49.10'	-20° 2.70'	7368.5	9.6	87	0.5	299	10.0	88	SATL	0.3	0.5	1293
7	12	1974	6 8	-35°48.40'	-19°48.10'	7380.3	9.8	86	0.4	322	10.0	88	SATL	0.6	1.2	1295
7	12	1974	634	-35°48.10'	-19°42.90'	7384.6	9.5	85	0.7	307	10.0	88	SATL	0.2	0.4	1297
7	12	1974	730	-35°47.40'	-19°32.00'	7393.4	9.6	86	0.5	305	10.0	88	SATL	0.7	0.9	1299
7	12	1974	758	-35°47.10'	-19°26.50'	7397.9	9.3	87	0.7	286	10.0	88	SATL	0.3	0.5	1301
7	12	1974	820	-35°46.90'	-19°22.30'	7401.3	9.6	86	0.5	306	10.0	88	SATL	0.3	0.4	1303
7	12	1974	914	-35°46.30'	-19°11.70'	7409.9	9.8	88	0.2	286	10.0	88	SATL	0.5	0.9	1305
7	12	1974	1042	-35°45.70'	-18°54.00'	7424.3	9.8	85	0.5	330	10.0	88	SATL	0.4	1.5	1307
7	12	1974	11 4	-35°45.40'	-18°49.60'	7427.9	9.5	86	0.6	302	10.0	88	SATL	0.2	0.4	1309
7	12	1974	1228	-35°45.50'	-18°33.20'	7441.2	9.7	86	0.5	319	10.0	88	SATL	0.8	1.4	1311
7	12	1974	14 0	-35°43.40'	-18°14.90'	7456.1	9.3	86	0.7	290	10.0	88	SATL	0.8	1.5	1313
7	12	1974	1420	-35°43.20'	-18°11.10'	7459.2	10.1	85	0.6	1	10.0	88	SATL	0.3	0.3	1315
7	12	1974	1458	-35°42.60'	-18° 3.30'	7465.6	9.9	85	0.5	343	10.0	88	SATL	0.4	0.6	1317
7	12	1974	1546	-35°41.90'	-17°53.60'	7473.5	9.8	82	1.1	342	10.0	88	SATL	0.5	0.8	1319
7	12	1974	1642	-35°40.60'	-17°42.50'	7482.6	9.3	84	0.9	307	10.0	88	SATL	1.1	0.9	1321
7	12	1974	1722	-35°40.00'	-17°34.90'	7488.8	9.9	81	1.3	351	10.0	88	SATL	0.7	0.7	1323
7	12	1974	1910	-35°37.10'	-17°13.20'	7506.7	9.6	83	0.9	327	10.0	88	SATL	2.4	1.8	1325
7	12	1974	1932	-35°36.70'	-17° 8.90'	7510.2	10.0	82	1.0	353	10.0	88	SATL	0.4	0.4	1327
7	12	1974	2026	-35°35.50'	-16°58.00'	7519.1	9.5	82	1.1	328	10.0	88	SATL	0.9	0.9	1329
7	12	1974	2212	-35°33.30'	-16°37.50'	7536.0	9.1	83	1.2	308	10.0	88	SATL	1.9	1.8	1331
7	12	1974	2240	-35°32.80'	-16°32.30'	7540.2	9.4	85	0.9	309	10.0	88	SATL	0.6	0.5	1333
8	12	1974	0 0	-35°31.6'	-16°17.0'	7552.7	9.4	85	0.9	309	10.0	88				1334
8	12	1974	156	-35°29.90'	-15°54.90'	7570.8	9.1	84	1.1	305	10.0	88	SATL	2.9		

APPENDIX A - Continued

Da	Mo	Yr	Time	Latitude	Longitude	Dist.	Actual		Drift		Dr.	Course	Comment	Drift		
							Speed	Course	Speed	Hed.				Speed	Time	No.
8	12	1974	13 0	-35°18.8'	-13°53.1'	7670.7	9.4	88	0.6	296	10.0	90	C/C	1.0	1.5	1353
8	12	1974	1310	-35°18.80'	-13°51.20'	7672.3	8.8	92	1.2	256	10.0	90	SATL	0.5	0.3	1355
8	12	1974	1330	-35°18.90'	-13°47.60'	7675.2	10.3	90	0.3	90	10.0	90	SATL	0.2	0.4	1357
8	12	1974	1352	-35°18.90'	-13°43.00'	7679.0	10.1	89	0.1	45	10.0	90	SATL	0.2	1.1	1361
8	12	1974	1458	-35°18.80'	-13°29.40'	7690.1	10.6	88	0.7	60	10.0	90	SATL	0.5	0.6	1363
8	12	1974	1534	-35°18.60'	-13°21.60'	7696.4	10.1	89	0.2	32	10.0	90	SATL	0.3	1.0	1365
8	12	1974	1632	-35°18.40'	-13° 9.60'	7706.2	10.3	89	0.3	49	10.0	90	SATL	0.7	1.8	1367
8	12	1974	1820	-35°18.00'	-12°47.00'	7724.7	8.8	90	1.2	270	10.0	90	SATL	0.5	0.3	1369
8	12	1974	1840	-35°18.00'	-12°43.40'	7727.6	9.9	87	0.5	346	10.0	90	SATL	0.5	0.8	1371
8	12	1974	1930	-35°17.60'	-12°33.30'	7735.9	9.5	84	1.1	331	10.0	90	SATL	1.1	1.0	1373
8	12	1974	2028	-35°16.70'	-12°22.10'	7745.1	10.1	84	1.1	360	10.0	90	SATL	0.9	0.8	1375
8	12	1974	2116	-35°15.80'	-12°12.30'	7753.1	9.7	84	1.1	340	10.0	90	SATL	2.6	2.3	1377
8	12	1974	2334	-35°13.40'	-11°45.20'	7775.4	9.5	86	0.9	319	10.0	90	SATL	1.4	1.5	1378
9	12	1974	0 0	-35°13.1'	-11°40.2'	7779.5	9.5	86	0.9	319	10.0	90	SATL	0.8	1.6	1380
9	12	1974	240	-35°11.70'	-11° 8.10'	7805.7	10.0	89	0.2	348	10.0	90	SATL	0.3	0.3	1382
9	12	1974	426	-35°11.30'	-10°46.60'	7823.3	9.6	87	0.6	320	10.0	90	SATL	0.5	1.8	1384
9	12	1974	616	-35°10.40'	-10°25.10'	7840.9	10.5	87	0.8	41	10.0	90	SATL	1.2	1.8	1386
9	12	1974	636	-35°10.20'	-10°20.80'	7844.4	9.7	85	1.0	337	10.0	90	SATL	0.3	0.3	1388
9	12	1974	724	-35° 9.50'	-10°11.40'	7852.1	9.6	86	0.7	324	10.0	90	SATL	0.8	0.8	1390
9	12	1974	824	-35° 8.90'	- 9°59.70'	7861.7	9.6	87	0.6	321	10.0	90	SATL	0.8	1.0	1392
9	12	1974	912	-35° 8.50'	- 9°50.30'	7869.4	9.2	88	0.9	295	10.0	90	SATL	0.6	0.8	1394
9	12	1974	1050	-35° 7.90'	- 9°31.90'	7884.5	9.3	90	0.7	270	10.0	90	SATL	1.5	1.6	1396
9	12	1974	1222	-35° 7.90'	- 9°14.50'	7898.7	10.1	90	0.1	90	10.0	90	SATL	1.2	1.5	1398
9	12	1974	1240	-35° 7.90'	- 9°10.80'	7901.7	9.6	90	0.4	259	10.0	90	SATL	0.1	0.3	1400
9	12	1974	14 8	-35° 8.00'	- 8°53.50'	7915.9	9.6	88	0.5	307	10.0	90	SATL	0.6	1.5	1402
9	12	1974	1428	-35° 7.90'	- 8°49.60'	7919.1	9.5	89	0.6	295	10.0	90	SATL	0.2	0.3	1404
9	12	1974	1544	-35° 7.60'	- 8°34.90'	7931.1	9.5	91	0.6	249	10.0	90	SATL	0.8	1.3	1406
9	12	1974	1614	-35° 7.70'	- 8°29.10'	7935.8	9.6	88	0.5	305	10.0	90	SATL	0.3	0.5	1408
9	12	1974	1730	-35° 7.30'	- 8°14.30'	7948.0	9.4	90	0.6	270	10.0	90	SATL	0.7	1.3	1410
9	12	1974	1752	-35° 7.30'	- 8°10.10'	7951.4	9.2	90	0.8	270	10.0	90	SATL	0.3	0.4	1412
9	12	1974	1836	-35° 7.30'	- 8° 1.80'	7958.2	9.5	90	0.6	270	10.0	90	SATL	0.6	0.7	1414
9	12	1974	1920	-35° 7.30'	- 7°53.40'	7965.1	10.2	84	1.1	4	10.0	90	SATL	0.5	0.7	1416
9	12	1974	1936	-35° 7.00'	- 7°50.10'	7967.8	9.0	90	1.0	270	10.0	90	SATL	0.4	0.3	1418
9	12	1974	2022	-35° 7.00'	- 7°41.70'	7974.6	9.4	90	0.6	270	10.0	90	SATL	0.8	0.8	1420
9	12	1974	2210	-35° 7.00'	- 7°21.00'	7991.6	9.3	89	0.7	281	10.0	90	SATL	1.1	1.8	1422
9	12	1974	2235	-35° 6.9'	- 7°16.3'	7995.4	9.3	86	0.7	281	10.0	87	C/C			1423
9	12	1974	2248	-35° 6.80'	- 7°13.80'	7997.5	9.8	85	0.4	321	10.0	87	SATL	0.5	0.6	1425
10	12	1974	0 0	-35° 5.8'	- 6°59.5'	8009.2	9.8	85	0.4	321	10.0	87	SATL	0.6	1.5	1426
10	12	1974	018	-35° 5.60'	- 6°55.90'	8012.2	9.2	88	0.8	260	10.0	87	SATL	1.0	1.3	1428
10	12	1974	134	-35° 5.10'	- 6°41.60'	8023.9	9.1	88	0.9	261	10.0	87	SATL	2.0	2.1	1430
10	12	1974	342	-35° 4.30'	- 6°17.90'	8043.3	9.5	89	0.6	241	10.0	87	SATL	1.1	1.8	1432
10	12	1974	528	-35° 3.90'	- 5°57.50'	8060.0	9.1	88	0.9	256	10.0	87	SATL	0.4	0.3	1434
10	12	1974	548	-35° 3.80'	- 5°53.80'	8063.0	9.3	89	0.8	242	10.0	87	SATL	0.4	0.3	1436
10	12	1974	632	-35° 3.70'	- 5°45.50'	8069.8	9.7	88	0.4	236	10.0	87	SATL	0.7	0.7	1438
10	12	1974	732	-35° 3.40'	- 5°33.70'	8079.5	9.5	87	0.5	276	10.0	87	SATL	0.4	1.0	1440
10	12	1974	814	-35° 3.00'	- 5°25.60'	8086.1	10.0	86	0.3	353	10.0	87	SATL	0.4	0.7	1442
10	12	1974	10 2	-35° 1.60'	- 5° 3.70'	8104.1	9.7	86	0.3	306	10.0	87	SATL	0.5	1.8	1444
10	12	1974	1134	-35° 0.50'	- 4°45.50'	8119.0	10.7	85	0.9	56	10.0	87	SATL	0.6	1.5	1446
10	12	1974	1152	-35° 0.20'	- 4°41.60'	8122.2	10.5	86	0.6	67	10.0	87	SATL	0.3	0.3	1448
10	12	1974	1340	-34°58.9'	- 4°18.5'	8141.2	9.5	268	0.6	67	10.0	267	C/C			1449
10	12	1974	14 9	-34°59.0'	- 4°24.0'	8145.8	6.2	269	0.6	67	6.7	267	C/S			1450
10	12	1974	1455	-34°59.10'	- 4°29.80'	8150.5	6.7	267	0.0	0	6.7	267	S359	1.8	3.1	1452
10	12	1974	1455	-34°59.1'	- 4°29.80'	8150.5	0.0	0	0.0	0	0.0	500	STOP			1453
12	12	1974	030	-34°59.10'	- 4°29.80'	8150.5	0.7	285	0.7	235	0.0	500	DEP	0.1	33.6	1455
12	12	1974	030	-34°59.1'	- 4°29.8'	8150.5	10.5	243	0.7	285	10.0	240	U/W			1456
12	12	1974	045	-35° 0.3'	- 4°32.6'	8153.1	9.4	86	0.7	285	10.0	87	C/C			1457
12	12	1974	212	-34°59.30'	- 4°16.10'	8166.7	10.4	86	0.5	54	10.0	87	SATL	1.2	1.7	1459
12	12	1974	250	-34°58.80'	- 4° 8.10'	8173.3	10.8	86	0.8	77	10.0	87	SATL	0.3	0.6	1461
12	12	1974	350	-34°58.10'	- 3°55.00'	8184.1	10.4	85	0.5	43	10.0	87	SATL	0.8	1.0	1463
12	12	1974	536	-34°56.50'	- 3°32.70'	8202.4	11.2	84	1.3	59	10.0	87	SATL	1.0	1.8	1465
12	12	1974	556	-34°56.10'	- 3°28.20'	8206.1	10.6	81	1.2	25	10.0	87	SATL	0.5	0.3	1467
12	12	1974	626	-34°55.30'	- 3°21.80'	8211.4	10.2	84	0.6	12	10.0	87	SATL	0.6	0.5	1469
12	12	1974	736	-34°54.00'	- 3° 7.40'	8223.3	10.3	84	0.6	29	10.0	87	SATL	0.8	1.2	1471
12	12	1974	810	-34°53.40'	- 3° 0.30'	8229.2	10.6	85	0.6	56	10.0	87	SATL	0.4	0.6	1473
12	12	1974	830	-34°53.1'	- 2°56.0'	8232.7	10.5	88	0.6	56	10.0	90	C/C			1474
12	12	1974	1012	-34°52.50'	- 2°34.20'	8250.6	10.8	90	0.8	95	10.0	90	SATL	1.4	2.0	1476
12	12	1974	1140	-34°52.60'	- 2°14.90'	8266.4	10.3	93	0.7	152	10.0	90	SATL	1.2	1.5	1478
12	12	1974	12 0	-34°52.80'	- 2°10.70'	8269.9	11.1	92	1.2	111	10.0	90	SATL	0.3	0.3	1480
12	12	1974	1256	-34°53.20'	- 1°58.10'	8280.2	11.5	92	1.5	105	10.0	90	SATL	1.1	0.9	1482
12	12	1974	1326	-34°53.40'	- 1°51.10'	8286.0	11.0	89	1.0	78	10.0	90	SATL	0.8	0.5	1484
12	12	1974	14 0	-34°53.3'	- 1°43.5'	8292.2	11.0	86	1.0	78	10.0	87	C/C			

APPENDIX A - *Continued*

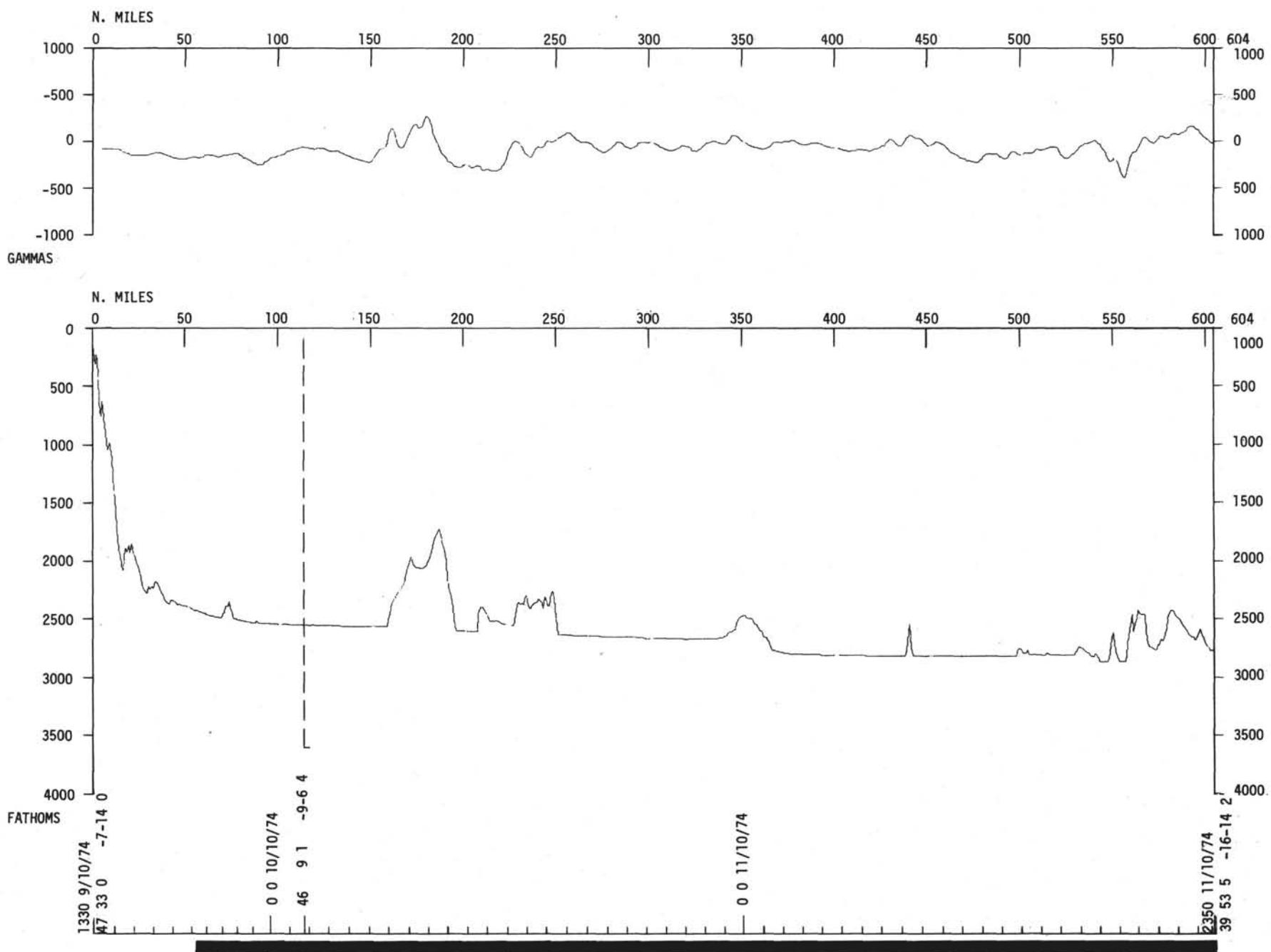
Da	Mo	Yr	Time	Latitude	Longitude	Dist.	Actual		Drift		Dr.	Course	Comment	Drift		
							Speed	Course	Speed	Hed.				Speed	Dist.	Time
12	12	1974	22 8	-34° 48.90'	0° 3.10'	8379.8	10.7	87	0.7	84	10.0	87	SATL	0.6	1.0	1499
12	12	1974	2338	-34° 48.00'	0° 22.60'	8395.9	10.7	87	0.7	86	10.0	87	SATL	1.1	1.5	1501
13	12	1974	0 0	-34° 47.8'	0° 27.4'	8399.8	10.7	87	0.7	86	10.0	87				1502
13	12	1974	122	-34° 47.00'	0° 45.20'	8414.4	10.8	86	0.8	80	10.0	87	SATL	1.3	1.7	1504
13	12	1974	3 2	-34° 45.90'	1° 7.00'	8432.4	10.6	87	0.6	78	10.0	87	SATL	1.3	1.7	1506
13	12	1974	330	-34° 45.60'	1° 13.00'	8437.3	10.7	87	0.7	89	10.0	87	SATL	0.3	0.5	1508
13	12	1974	448	-34° 44.90'	1° 29.90'	8451.2	10.8	87	0.8	81	10.0	87	SATL	1.0	1.3	1510
13	12	1974	534	-34° 44.40'	1° 40.00'	8459.5	10.9	87	0.9	85	10.0	87	SATL	0.7	0.8	1512
13	12	1974	644	-34° 43.70'	1° 55.40'	8472.2	10.7	87	0.7	86	10.0	87	SATL	1.1	1.2	1514
13	12	1974	716	-34° 43.40'	2° 2.30'	8477.9	11.0	86	1.0	78	10.0	87	SATL	0.4	0.5	1516
13	12	1974	9 4	-34° 42.10'	2° 26.30'	8497.7	11.1	88	1.2	101	10.0	87	SATL	1.8	1.8	1518
13	12	1974	924	-34° 42.00'	2° 42.00'	8501.4	11.2	88	1.2	92	10.0	87	SATL	0.4	0.3	1520
13	12	1974	1052	-34° 41.30'	2° 50.80'	8517.8	11.2	87	1.2	83	10.0	87	SATL	1.8	1.5	1522
13	12	1974	1110	-34° 41.10'	2° 54.90'	8521.2	10.9	86	0.9	71	10.0	87	SATL	0.4	0.3	1524
13	12	1974	1238	-34° 39.90'	3° 14.20'	8537.1	11.6	90	1.7	108	10.0	87	SATL	1.3	1.5	1526
13	12	1974	1258	-34° 39.90'	3° 18.90'	8541.0	11.2	86	1.2	81	10.0	87	SATL	0.6	0.3	1528
13	12	1974	1332	-34° 39.50'	3° 26.60'	8547.3	11.5	87	1.5	89	10.0	87	SATL	0.7	0.6	1530
13	12	1974	1416	-34° 39.10'	3° 36.80'	8555.7	11.3	89	1.3	100	10.0	87	SATL	1.1	0.7	1532
13	12	1974	1518	-34° 38.80'	3° 51.00'	8567.4	11.0	88	1.0	98	10.0	87	SATL	1.4	1.0	1534
13	12	1974	1750	-34° 37.80'	4° 24.70'	8595.1	10.6	86	0.6	64	10.0	87	SATL	2.5	2.5	1536
13	12	1974	1828	-34° 37.30'	4° 32.80'	8610.8	11.1	82	1.4	47	10.0	87	SATL	0.4	0.6	1538
13	12	1974	2014	-34° 34.70'	4° 56.40'	8621.4	10.4	82	1.0	21	10.0	87	SATL	2.5	1.8	1540
13	12	1974	2120	-34° 33.10'	5° 10.20'	8632.9	10.0	81	1.0	354	10.0	87	SATL	1.1	1.1	1542
13	12	1974	2250	-34° 30.80'	5° 30.80'	8647.9	10.4	86	0.4	72	10.0	87	SATL	1.6	1.5	1544
13	12	1974	23 8	-34° 30.60'	5° 32.00'	8651.0	9.5	83	0.8	318	10.0	87	SATL	0.2	0.3	1546
13	12	1974	2320	-34° 30.4'	5° 34.3'	8652.9	9.4	89	0.8	318	10.0	93	C/C			1547
14	12	1974	0 0	-34° 30.3'	5° 41.9'	8659.2	9.4	89	0.8	318	10.0	93				1548
14	12	1974	214	-34° 30.10'	6° 7.50'	8680.3	9.2	90	0.9	304	10.0	93	SATL	2.6	1.3	1550
14	12	1974	622	-34° 30.10'	6° 53.70'	8718.4	9.3	91	0.8	303	10.0	93	SATL	3.9	4.1	1552
14	12	1974	654	-34° 30.1'	6° 59.7'	8723.4	9.3	87	0.8	303	10.0	90	SATL			1553
14	12	1974	742	-34° 29.80'	7° 8.80'	8730.8	9.5	90	0.5	270	10.0	90	SATL	1.1	1.3	1555
14	12	1974	810	-34° 29.80'	7° 14.20'	8735.3	9.7	85	1.0	342	10.0	90	SATL	0.3	0.5	1557
14	12	1974	836	-34° 29.40'	7° 19.30'	8739.5	10.1	91	0.2	131	10.0	90	SATL	0.5	0.4	1559
14	12	1974	1022	-34° 29.60'	7° 41.00'	8757.4	9.8	91	0.2	225	10.0	90	SATL	0.4	1.8	1561
14	12	1974	11 0	-34° 29.7'	7° 48.6'	8763.6	9.8	88	0.2	225	10.0	87	C/C			1562
14	12	1974	1150	-34° 29.40'	7° 58.50'	8771.8	9.6	88	0.4	238	10.0	87	SATL	0.4	1.5	1564
14	12	1974	1210	-34° 29.30'	8° 2.40'	8775.0	10.2	88	0.3	131	10.0	87	SATL	0.2	0.3	1566
14	12	1974	1228	-34° 29.20'	8° 6.10'	8778.1	9.9	85	0.3	334	10.0	87	SATL	0.1	0.3	1568
14	12	1974	1410	-34° 27.80'	8° 26.40'	8794.9	9.7	85	0.5	315	10.0	87	SATL	0.6	1.7	1570
14	12	1974	1514	-34° 26.90'	8° 38.90'	8805.2	9.9	85	0.3	336	10.0	87	SATL	0.5	1.1	1572
14	12	1974	17 2	-34° 25.40'	9° 0.40'	8823.0	10.3	85	0.5	28	10.0	87	SATL	0.7	1.8	1574
14	12	1974	1734	-34° 24.90'	9° 7.00'	8828.5	10.2	86	0.3	36	10.0	87	SATL	0.3	0.5	1576
14	12	1974	1852	-34° 23.90'	9° 23.00'	8841.7	10.4	82	1.0	15	10.0	87	SATL	0.4	1.3	1578
14	12	1974	1920	-34° 23.20'	9° 28.80'	8846.6	10.0	82	0.9	354	10.0	87	SATL	0.5	0.5	1580
14	12	1974	2034	-34° 21.50'	9° 43.60'	8858.9	9.5	82	1.0	322	10.0	87	SATL	1.1	1.2	1582
14	12	1974	2216	-34° 19.30'	10° 2.90'	8875.0	9.2	84	1.0	294	10.0	87	SATL	1.7	1.7	1584
14	12	1974	23 0	-34° 18.6'	10° 11.0'	8881.7	9.1	88	1.0	294	10.0	90	C/C			1585
14	12	1974	2350	-34° 18.30'	10° 20.20'	8889.3	10.1	90	0.2	64	10.0	90	SATL	1.5	1.6	1587
14	12	1974	0 0	-34° 18.3'	10° 22.3'	8891.0	10.1	90	0.2	64	10.0	90				1588
15	12	1974	116	-34° 18.20'	10° 37.80'	8903.8	9.3	92	0.8	249	10.0	90	SATL	0.3	1.4	1590
15	12	1974	3 2	-34° 18.70'	10° 57.60'	8920.2	9.7	91	0.4	253	10.0	90	SATL	1.5	1.8	1592
15	12	1974	458	-34° 18.90'	11° 20.20'	8938.9	9.4	91	0.6	251	10.0	90	SATL	0.7	1.9	1594
15	12	1974	528	-34° 19.00'	11° 25.90'	8943.6	9.4	90	0.6	274	10.0	90	SATL	0.4	0.5	1596
15	12	1974	545	-34° 19.0'	11° 29.2'	8946.3	9.4	87	0.6	274	10.0	87	C/C			1597
15	12	1974	648	-34° 18.40'	11° 41.10'	8956.1	9.0	82	1.3	303	10.0	87	SATL	0.8	1.3	1599
15	12	1974	712	-34° 17.90'	11° 45.40'	8959.7	9.2	81	1.3	318	10.0	87	SATL	0.6	0.4	1601
15	12	1974	934	-34° 14.40'	12° 11.50'	8981.6	9.5	79	1.5	334	10.0	87	SATL	3.1	2.4	1603
15	12	1974	10 5	-34° 13.4'	12° 17.3'	8986.5	9.4	82	1.5	334	10.0	90	C/C			1604
15	12	1974	11 0	-34° 12.20'	12° 27.70'	8995.2	9.9	78	2.1	352	10.0	90	SATL	2.2	1.4	1606
15	12	1974	1120	-34° 11.50'	12° 31.60'	8998.5	9.1	81	1.8	325	10.0	90	SATL	0.8	0.3	1608
15	12	1974	1250	-34° 9.30'	12° 47.90'	9012.1	8.7	80	2.1	318	10.0	90	SATL	2.7	1.5	1610
15	12	1974	1320	-34° 8.5'	12° 53.1'	9016.5	8.6	86	2.1	318	10.0	95	C/C			1611
15	12	1974	1426	-34° 7.80'	13° 4.50'	9026.0	8.0	84	2.6	310	10.0	95	SATL	3.4	1.6	1613
15	12	1974	1612	-34° 6.40'	13° 21.60'	9040.2	7.7	87	2.6	299	10.0	95	SATL	4.6	1.8	1615
15	12	1974	18 0	-34° 5.70'	13° 38.30'	9054.0	7.5	92	2.6	284	10.0	95	SATL	4.7	1.8	1617
15	12	1974	2012	-34° 6.30'	13° 58.30'	9070.6	7.5	94	2.5	277	10.0	95	SATL	5.6	2.2	1619
15	12	1974	2128	-34° 7.00'	14° 9.80'	9080.1	7.7	95	2.3	274	10.0	95	SATL	3.2	1.3	1621
15	12	1974	2155	-34° 7.3'	14° 14.0'	9083.6	7.7	86	2.3	274	10.0	88	C/C			1622
15	12	1974	2256	-34° 6.80'	14° 23.40'	9091.4	7.2	85	2.8	275	10.0	88	SATL	3.4	1.5	1624
15	12	1974	2316	-34° 6.60'	14° 26.30'	9093.8	7.5	86	2.6	275	10.0	88	S			

APPENDIX A - *Continued*

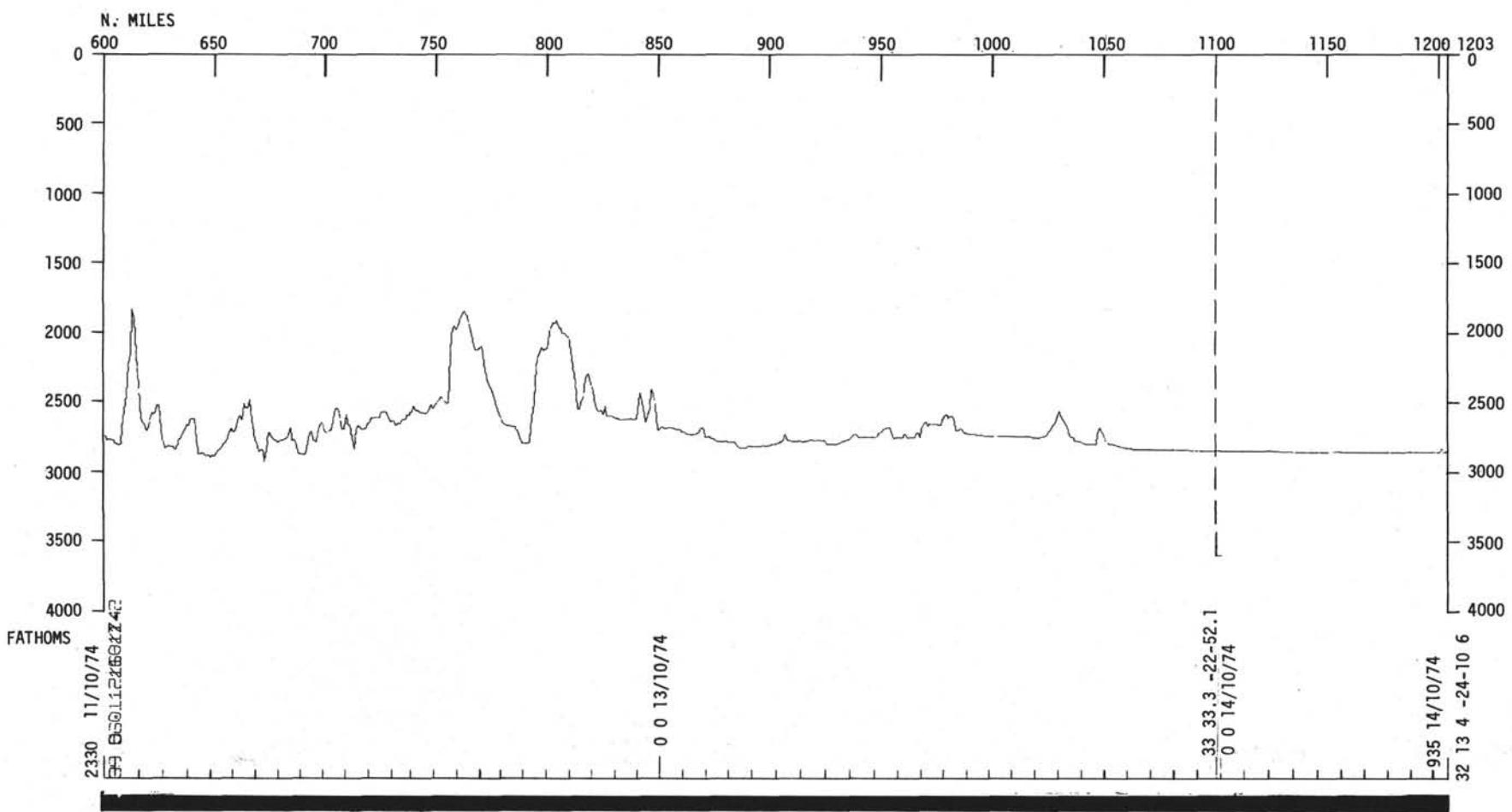
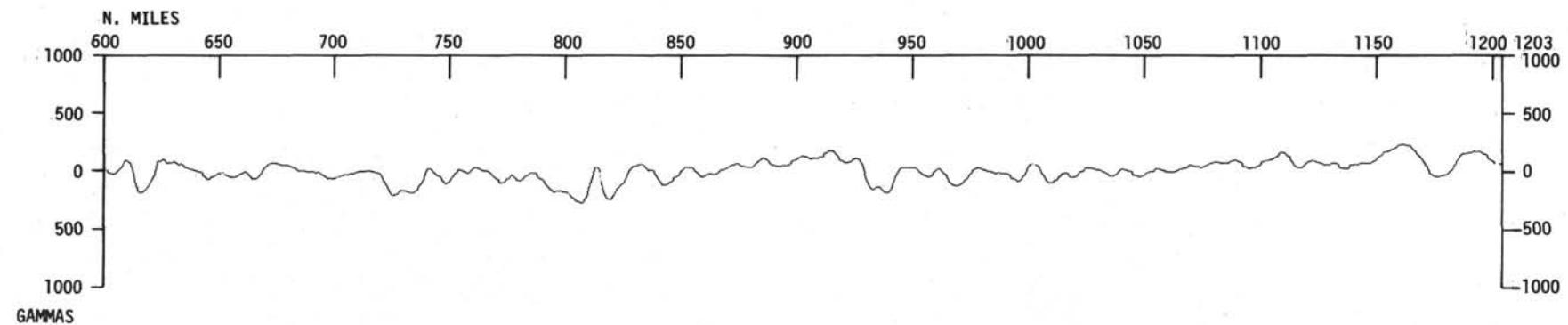
Da	Mo	Yr	Time	Latitude	Longitude	Actual		Drift		Dr.		Comment	Drift			
						Dist.	Speed	Course	Speed	Hed.	Speed	Course	Dist.	Time	No.	
16	12	1974	1032	-33° 59.20'	16° 4.00'	9175.4	9.1	73	1.8	317	10.0	82	SATL	4.0	1.8	1642
16	12	1974	1156	-33° 55.40'	16° 18.60'	9188.1	9.5	74	1.5	327	10.0	82	SATL	2.6	1.4	1644
16	12	1974	1225	-33° 54.1'	16° 23.9'	9192.7	9.4	79	1.5	327	10.0	87	C/C			1645
16	12	1974	1336	-33° 52.00'	16° 37.00'	9203.8	10.3	80	1.2	8	10.0	87	SATL	2.5	1.7	1647
16	12	1974	14 5	-33° 51.2'	16° 42.9'	9208.7	8.7	87	1.2	8	8.6	95	C/CS			1648
16	12	1974	1522	-33° 50.60'	16° 56.40'	9220.0	8.7	86	1.4	4	8.6	95	SATL	2.2	1.8	1650
16	12	1974	1630	-33° 49.9'	17° 8.2'	9229.8	6.8	83	1.4	4	6.7	95	C/S			1651
16	12	1974	17 8	-33° 49.40'	17° 49.40'	9234.1	5.2	87	1.7	300	6.7	95	SATL	2.5	1.8	1653
16	12	1974	1730	-33° 49.34'	17° 15.74'	9236.1	5.2	87	0.0	0	6.7	95	SATL	0.7	0.3	1654

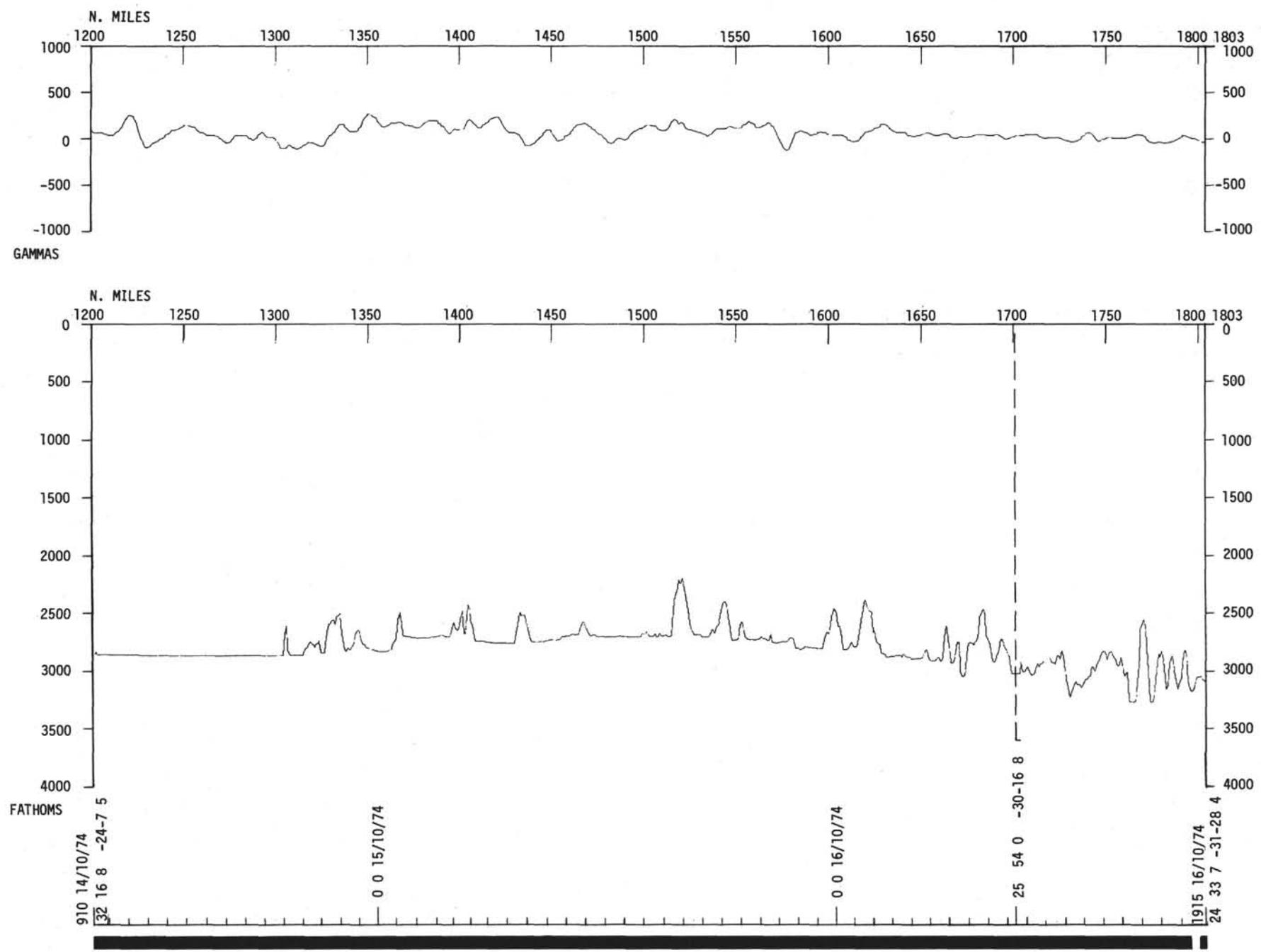
Note: Previous Accum. Miles 0.000 Present Accum. Dist. 9236.059 Cruise DSDP 39GC Record No. 1654 C/C = course change; C/S = course speed.

966

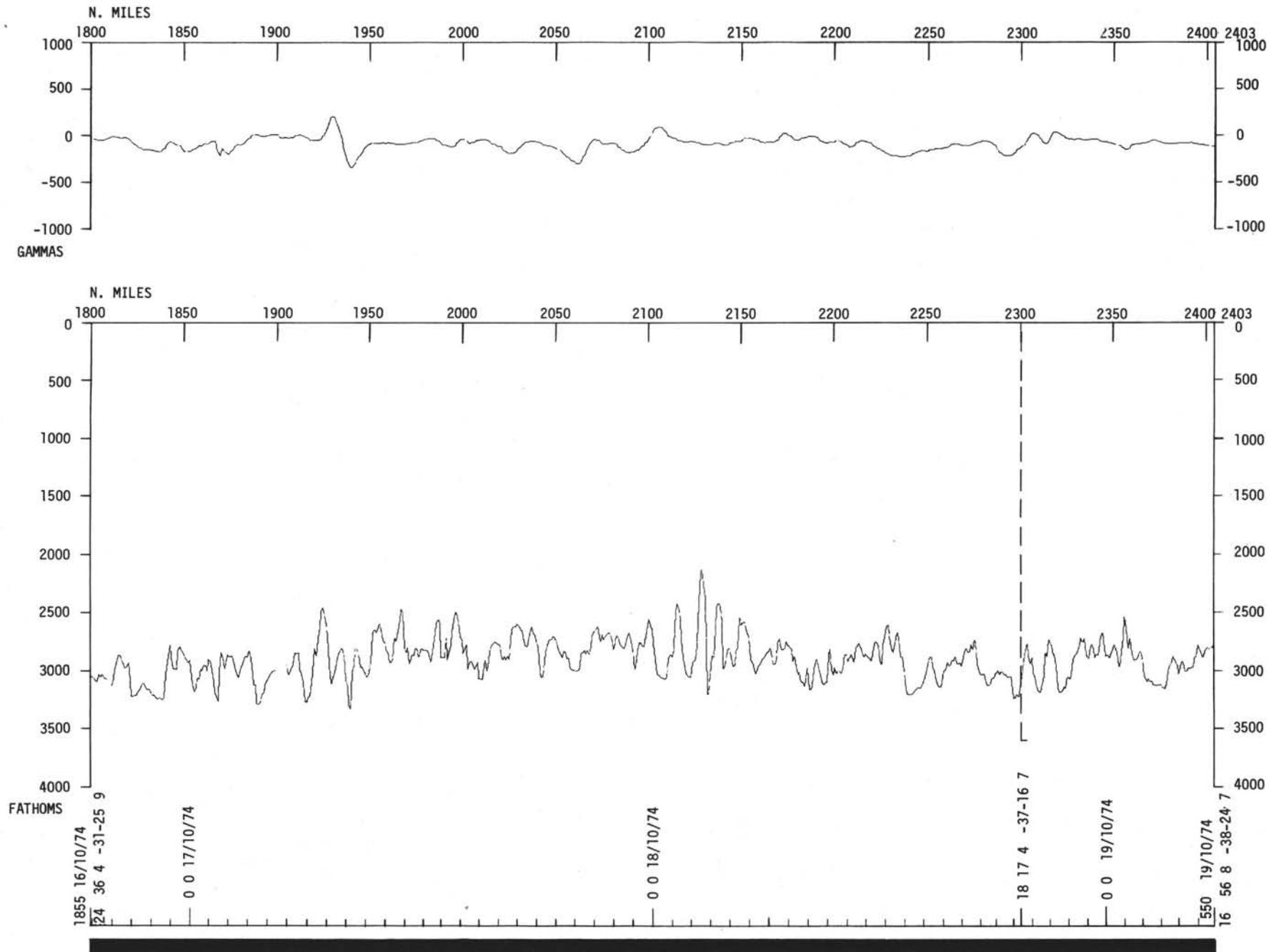


Appendix B. Bathymetric and residual magnetic field intensity data collected while underway. Sections of record indicated by black bar are represented by seismic reflection profiles (Appendix C).

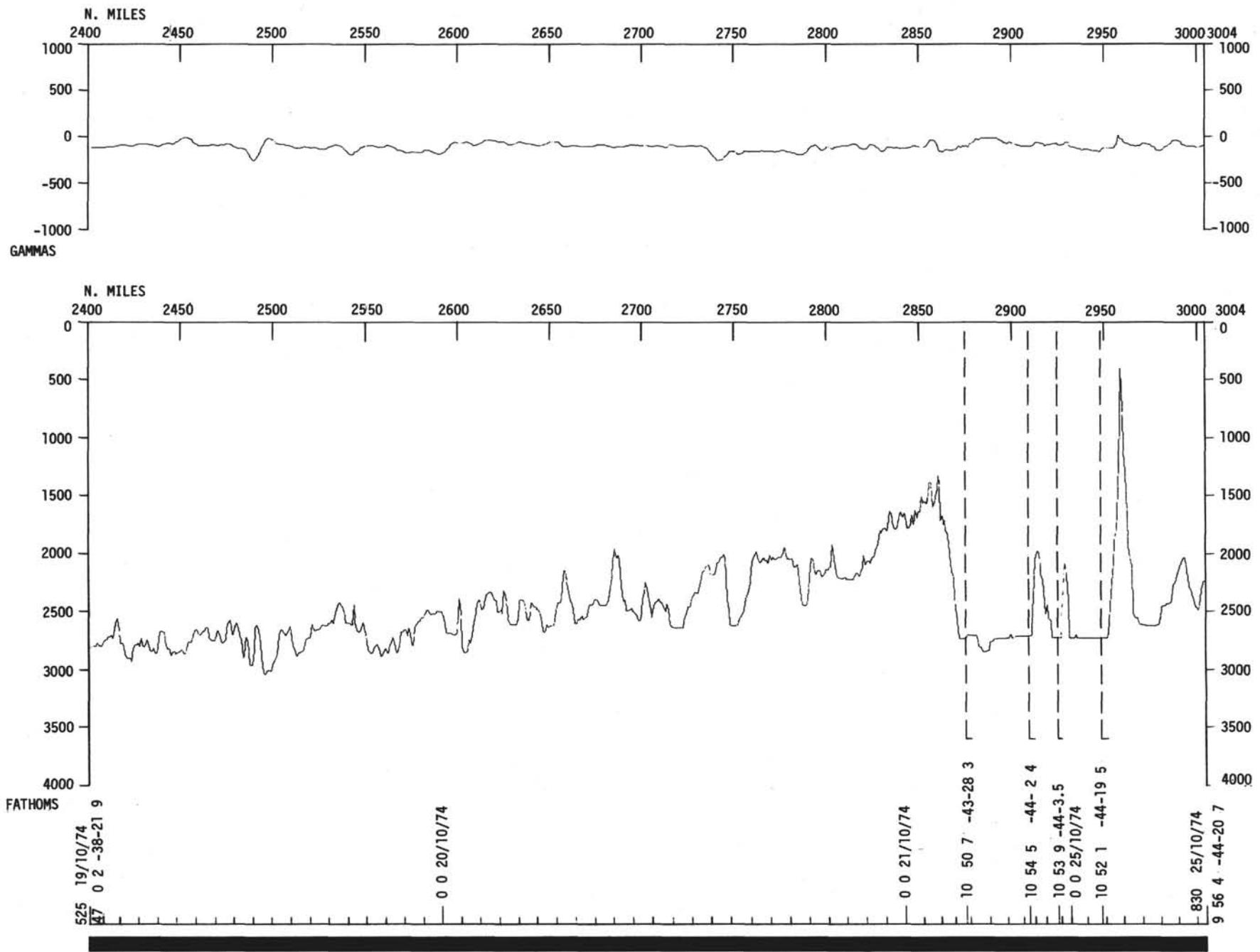




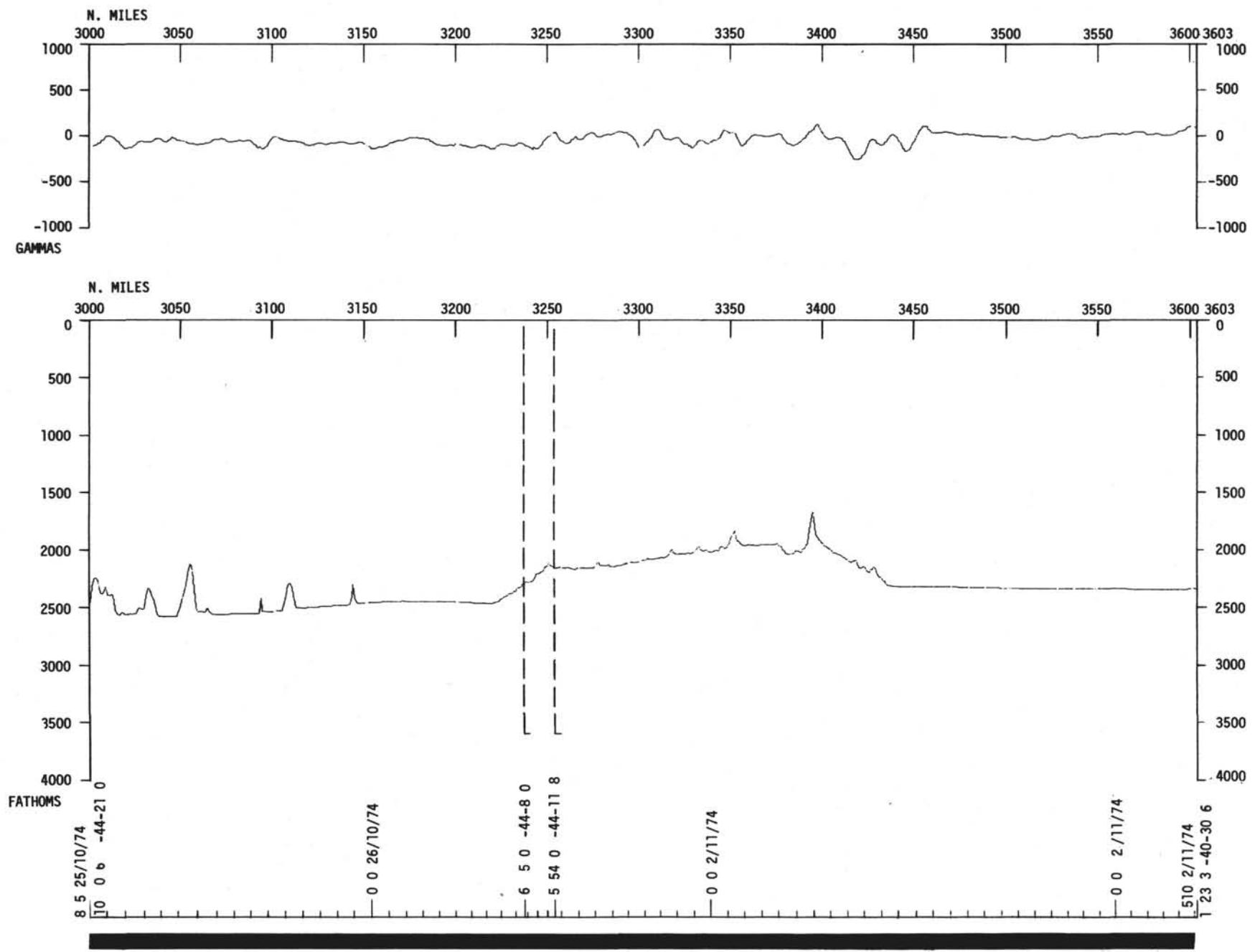
Appendix B. (Continued).

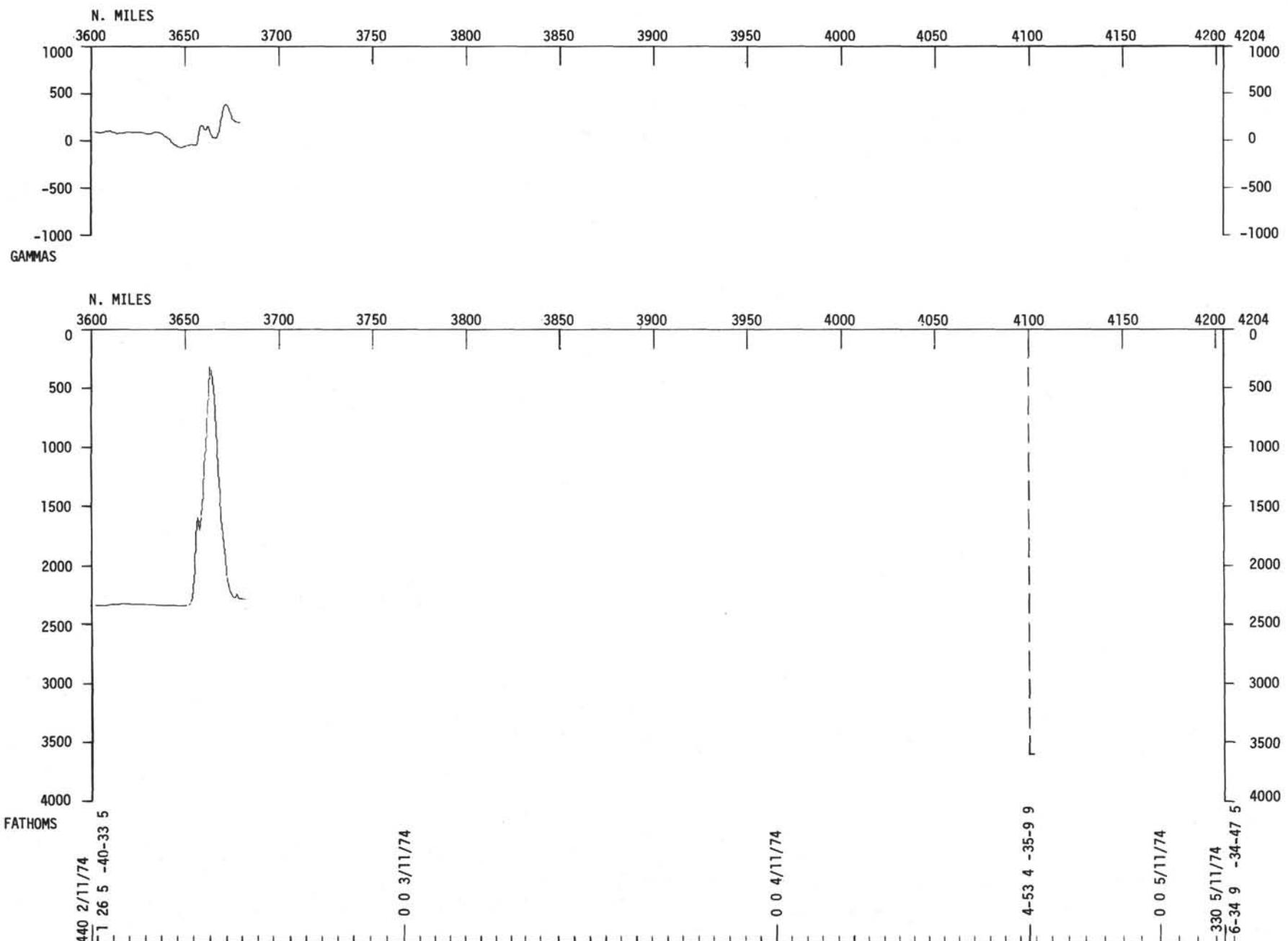


Appendix B. (*Continued*).

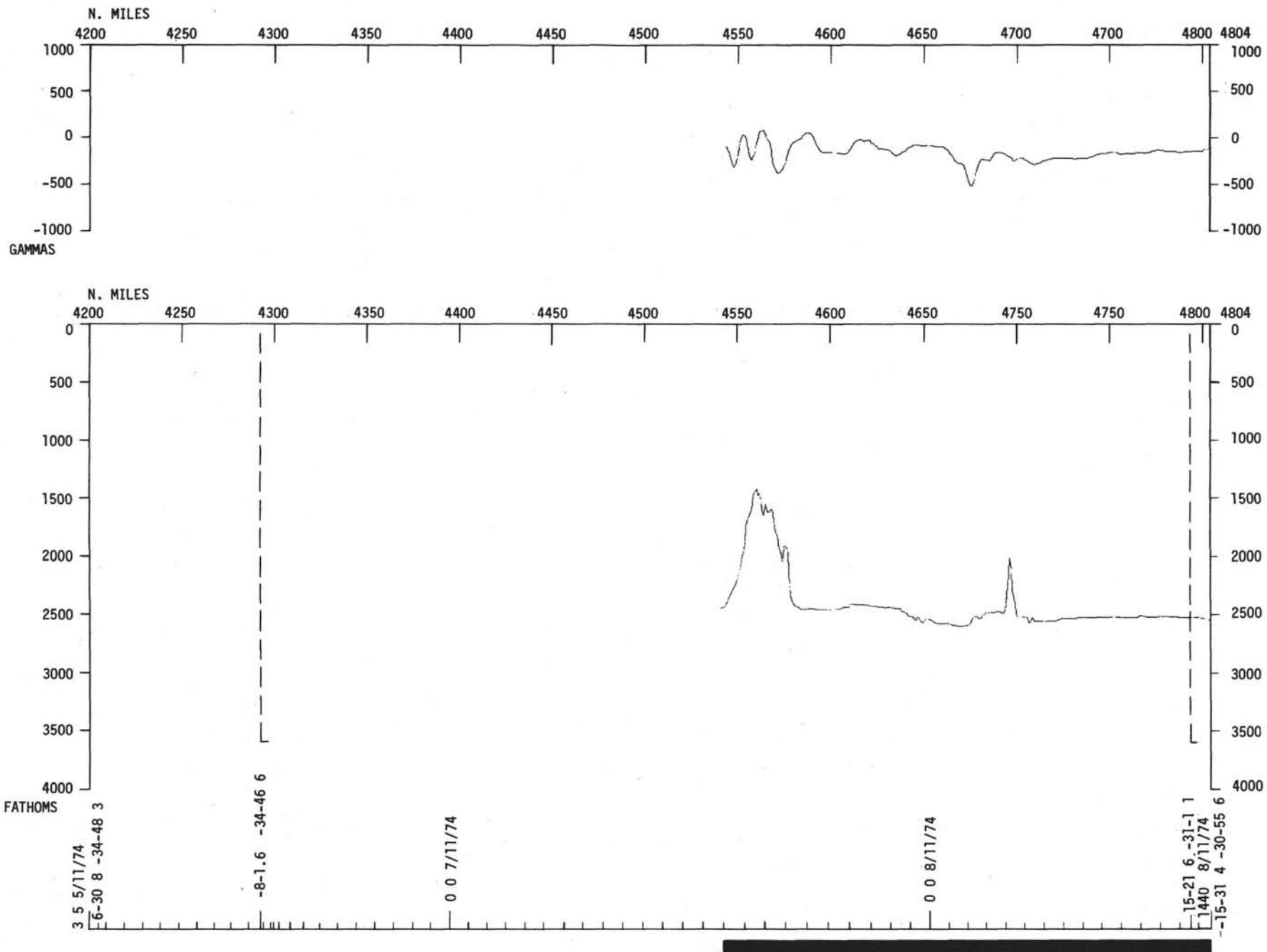


Appendix B. *(Continued).*

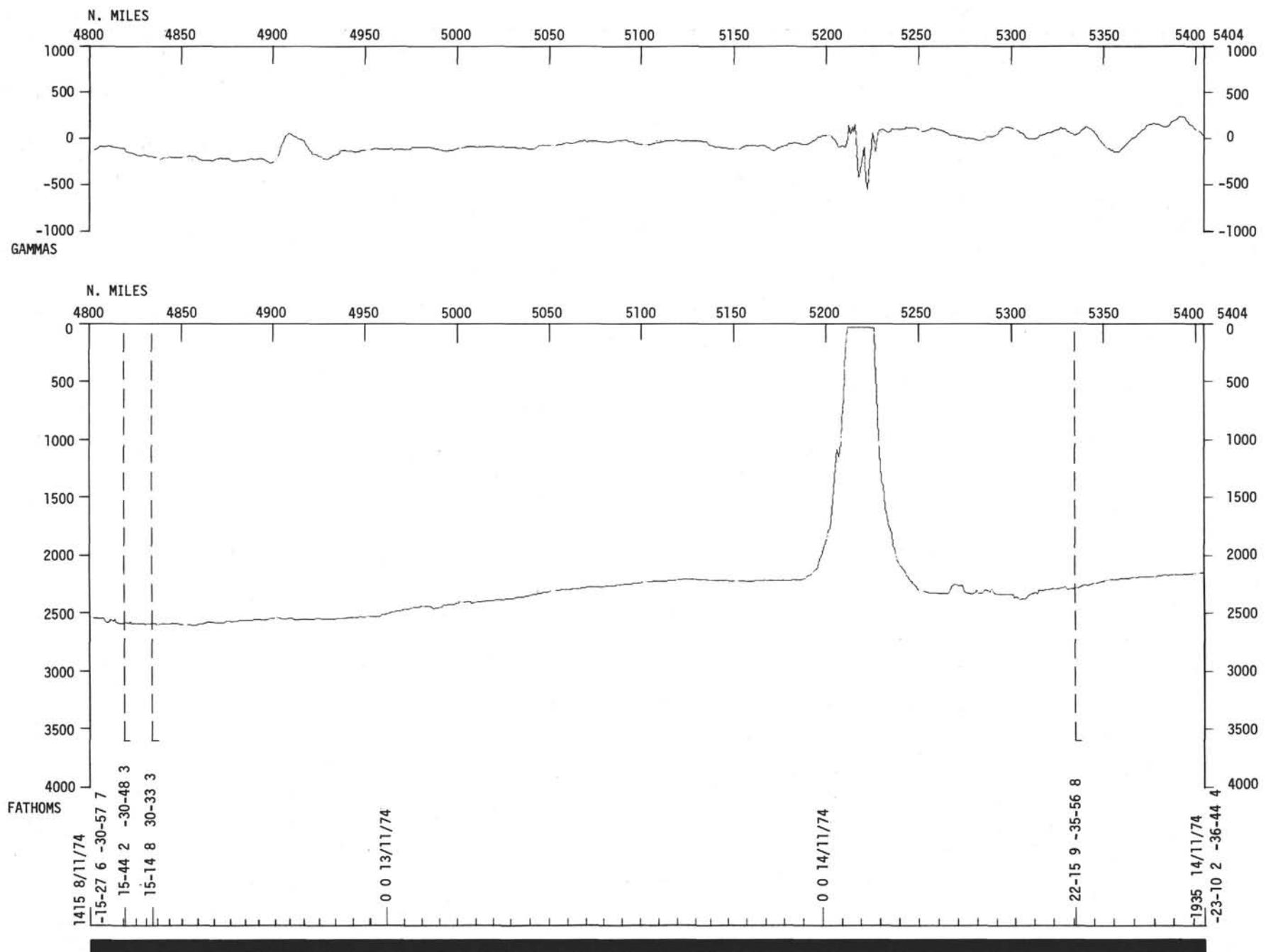




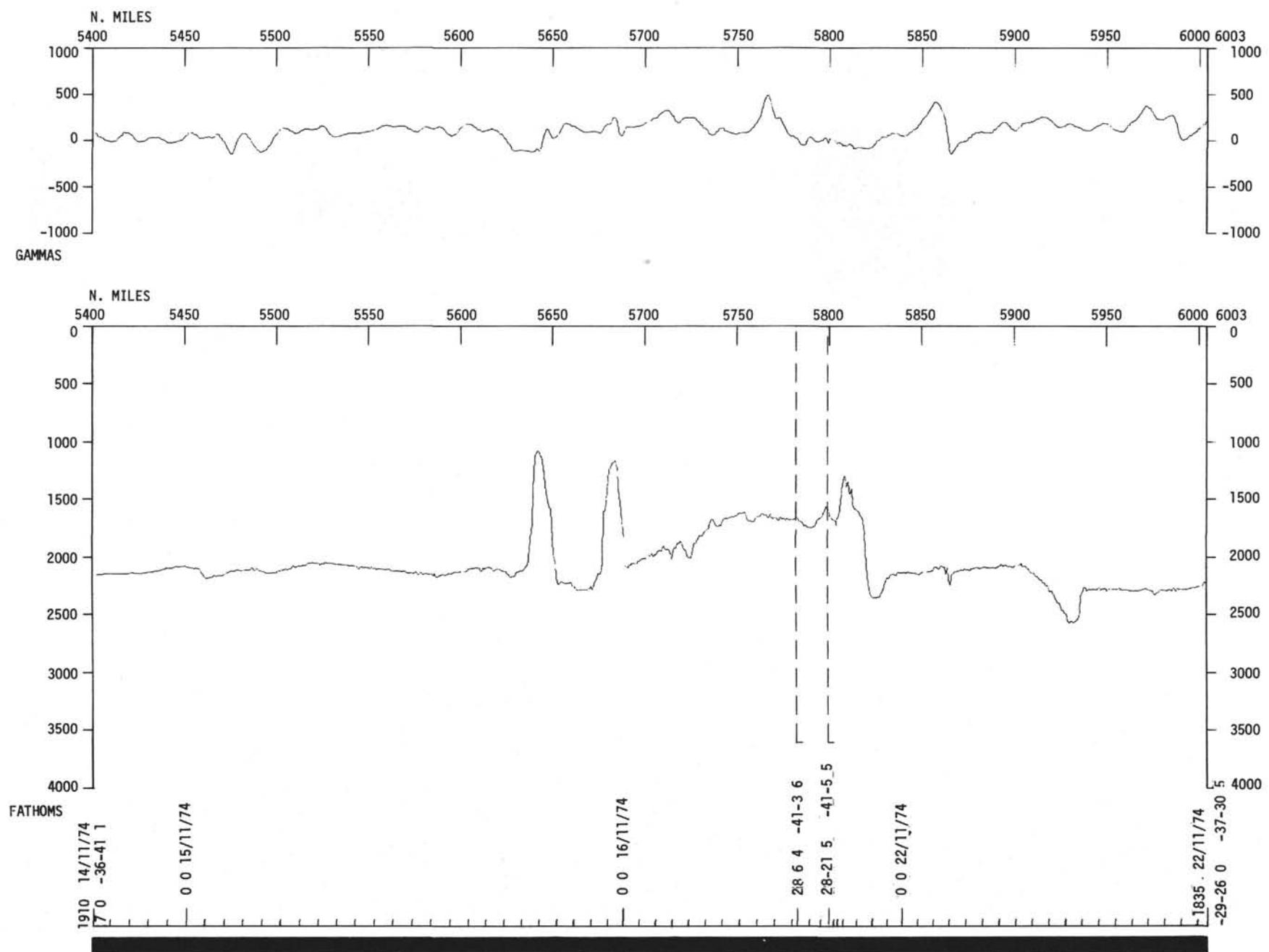
Appendix B. (Continued).

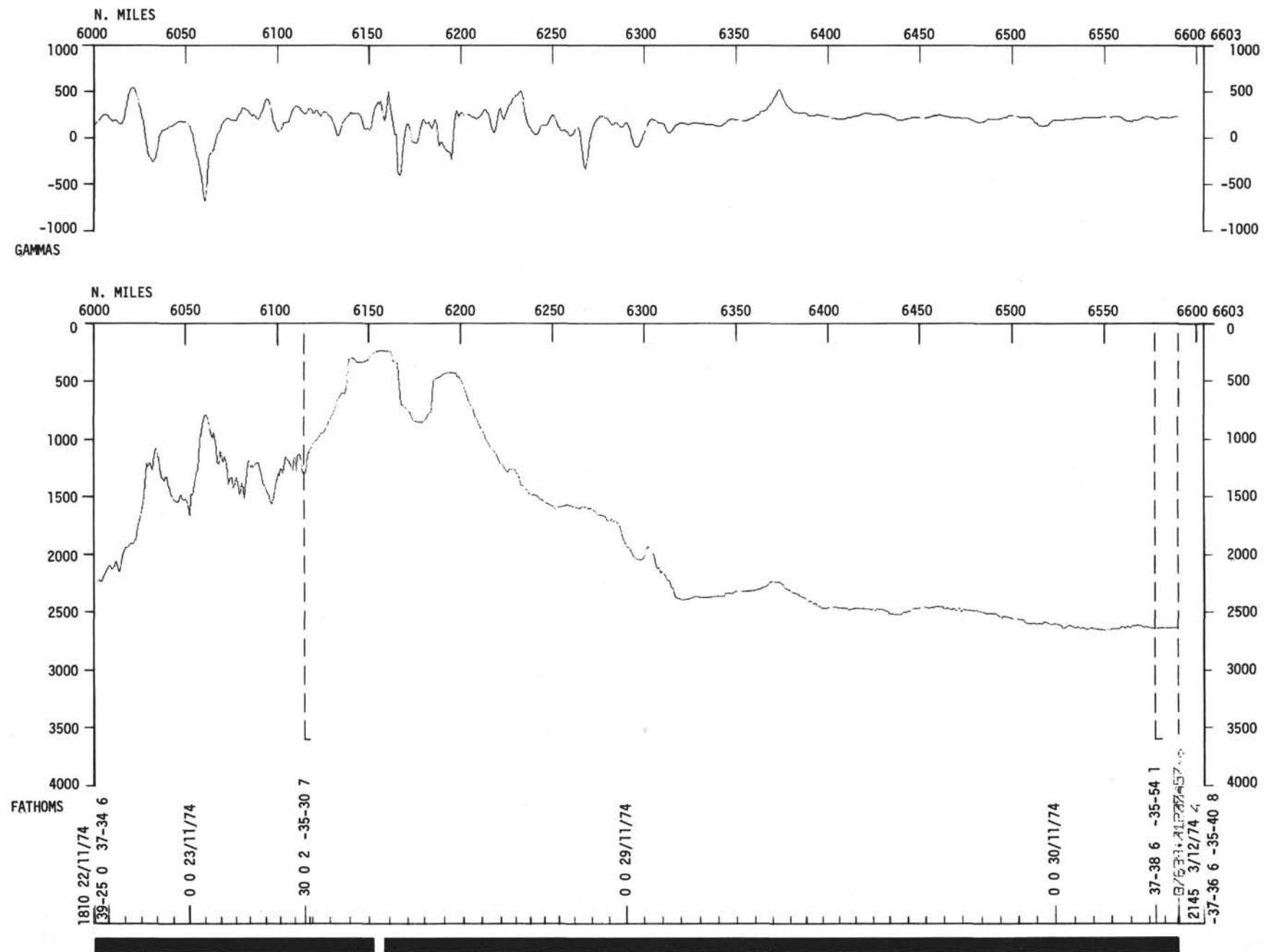


Appendix B. (Continued).

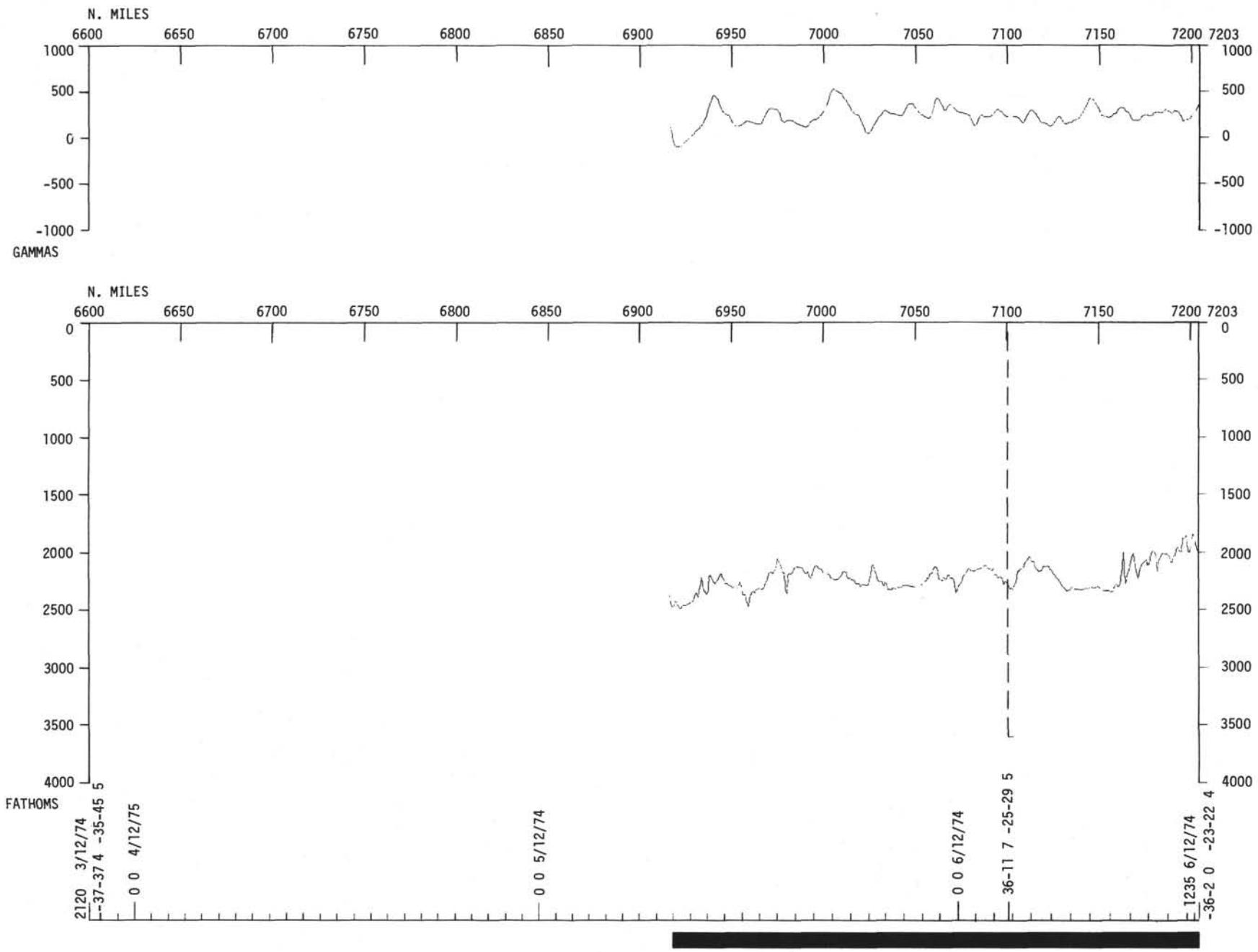


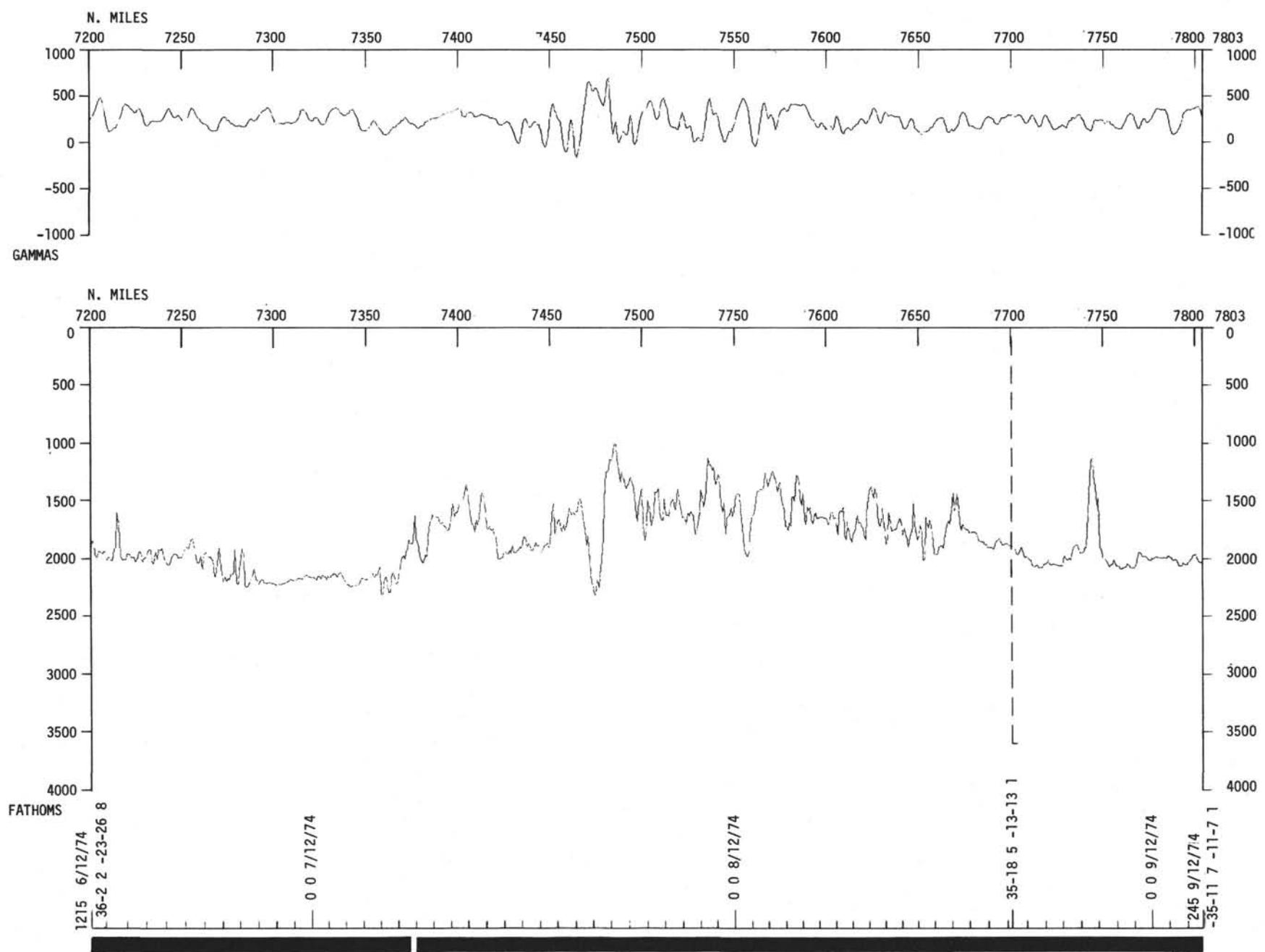
Appendix B. (Continued).



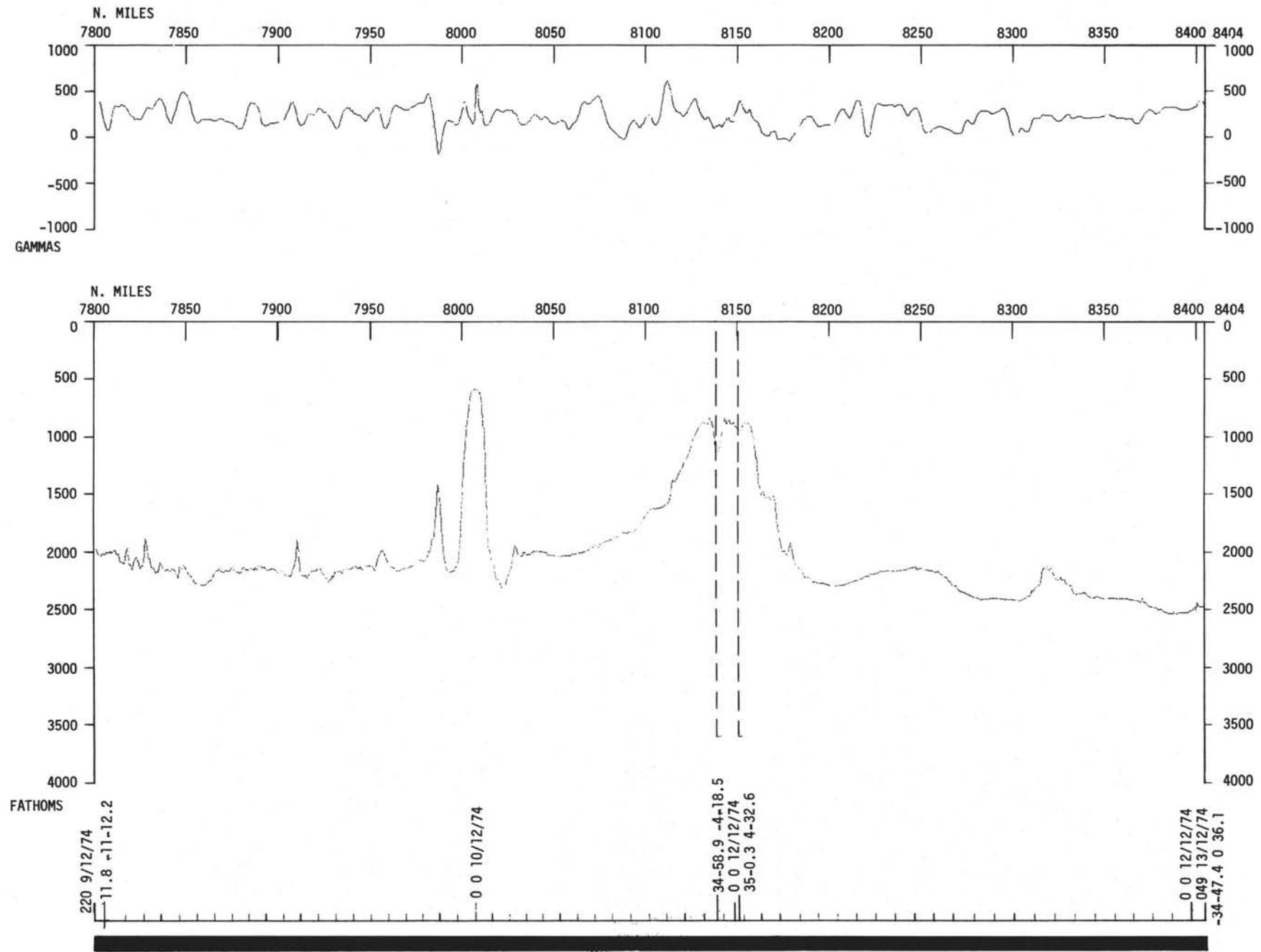


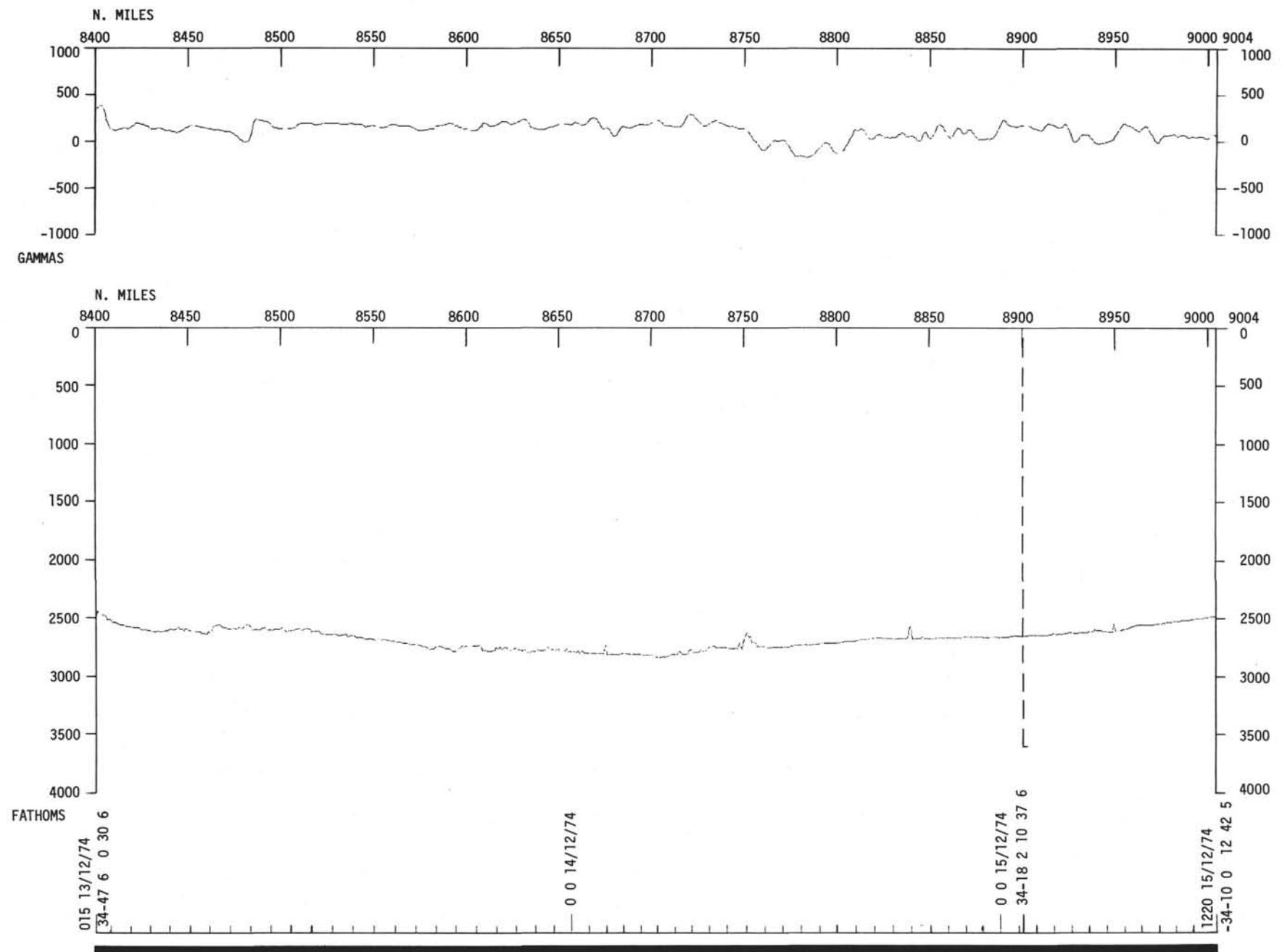
Appendix B. (Continued).



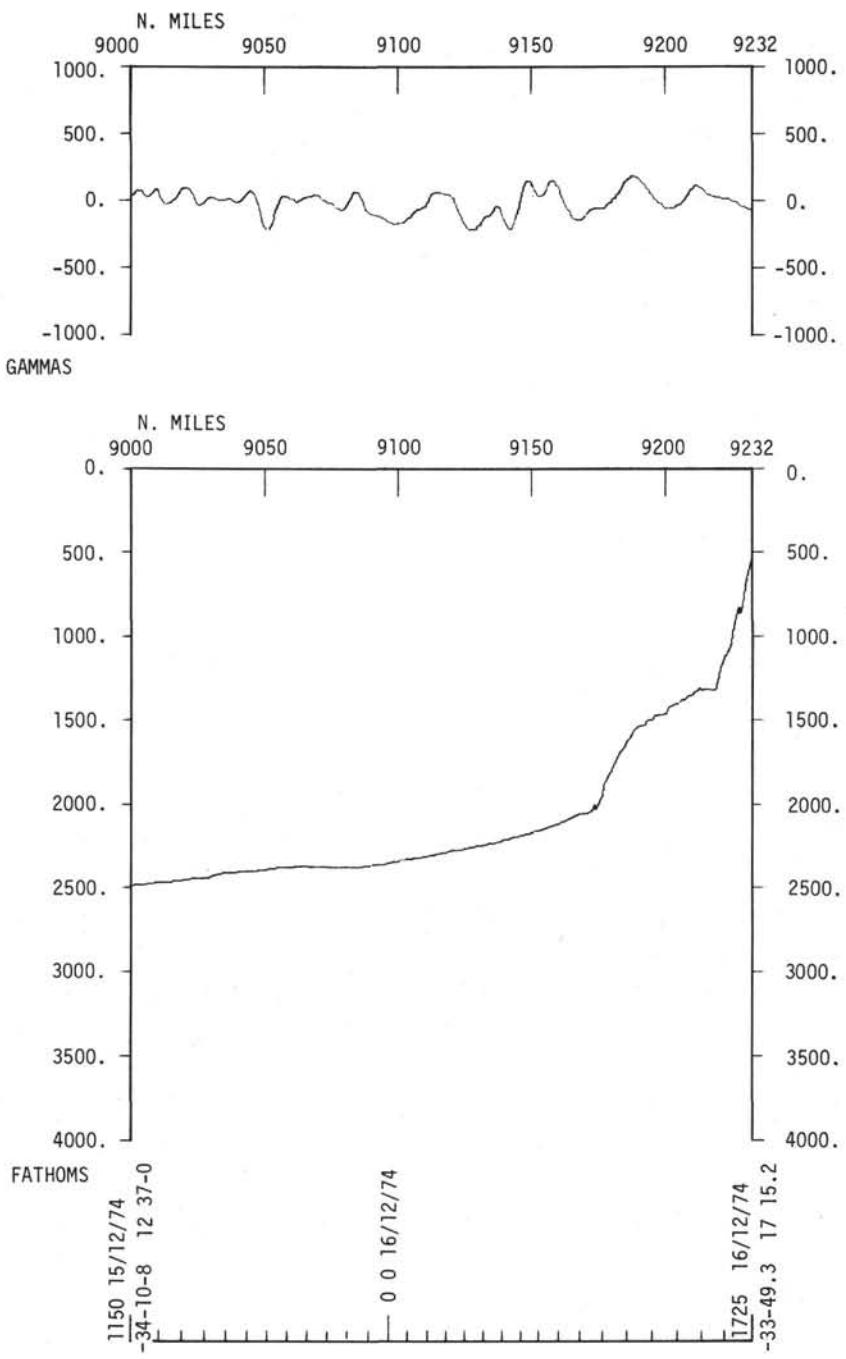


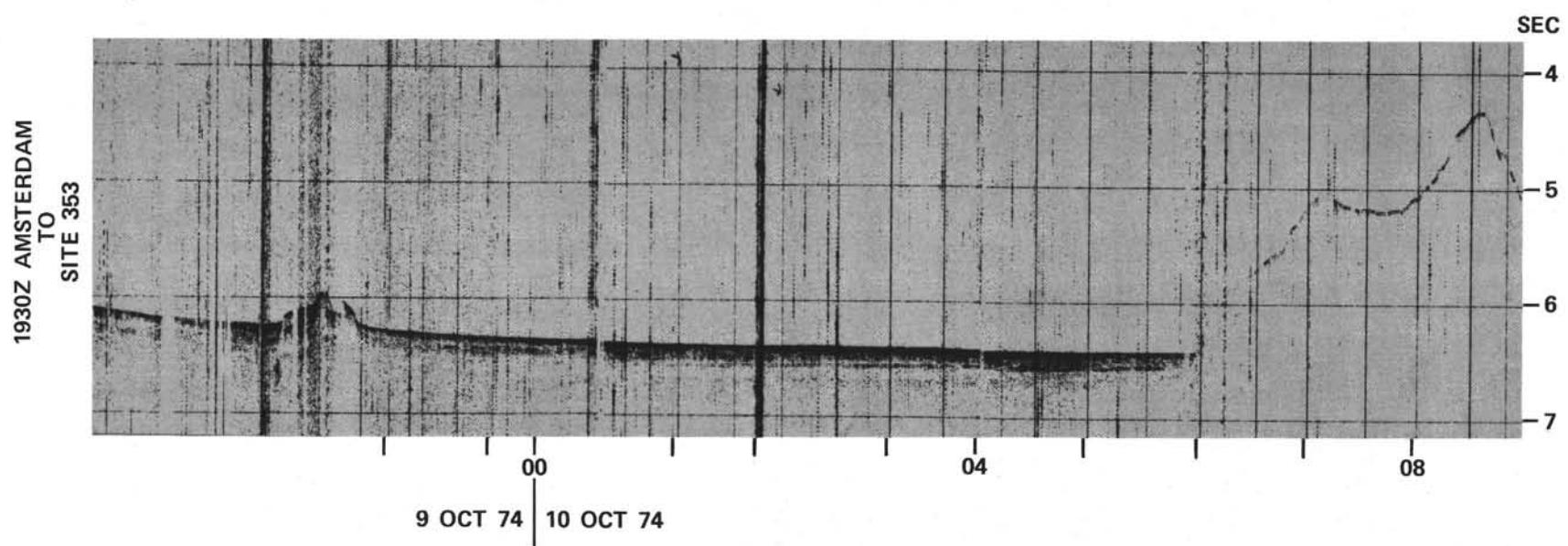
Appendix B. (Continued).



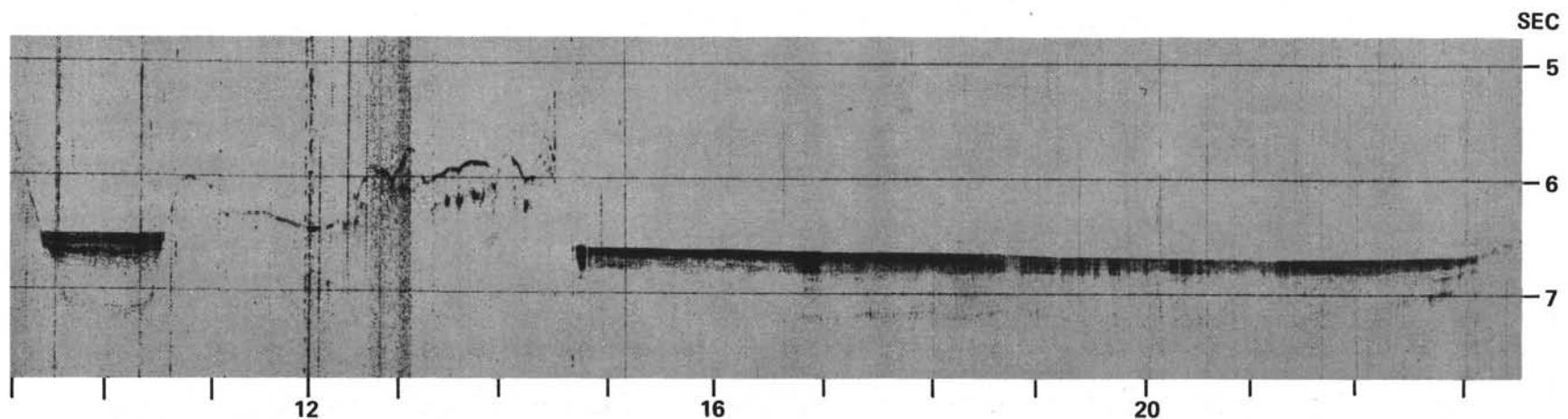


Appendix B. (Continued).

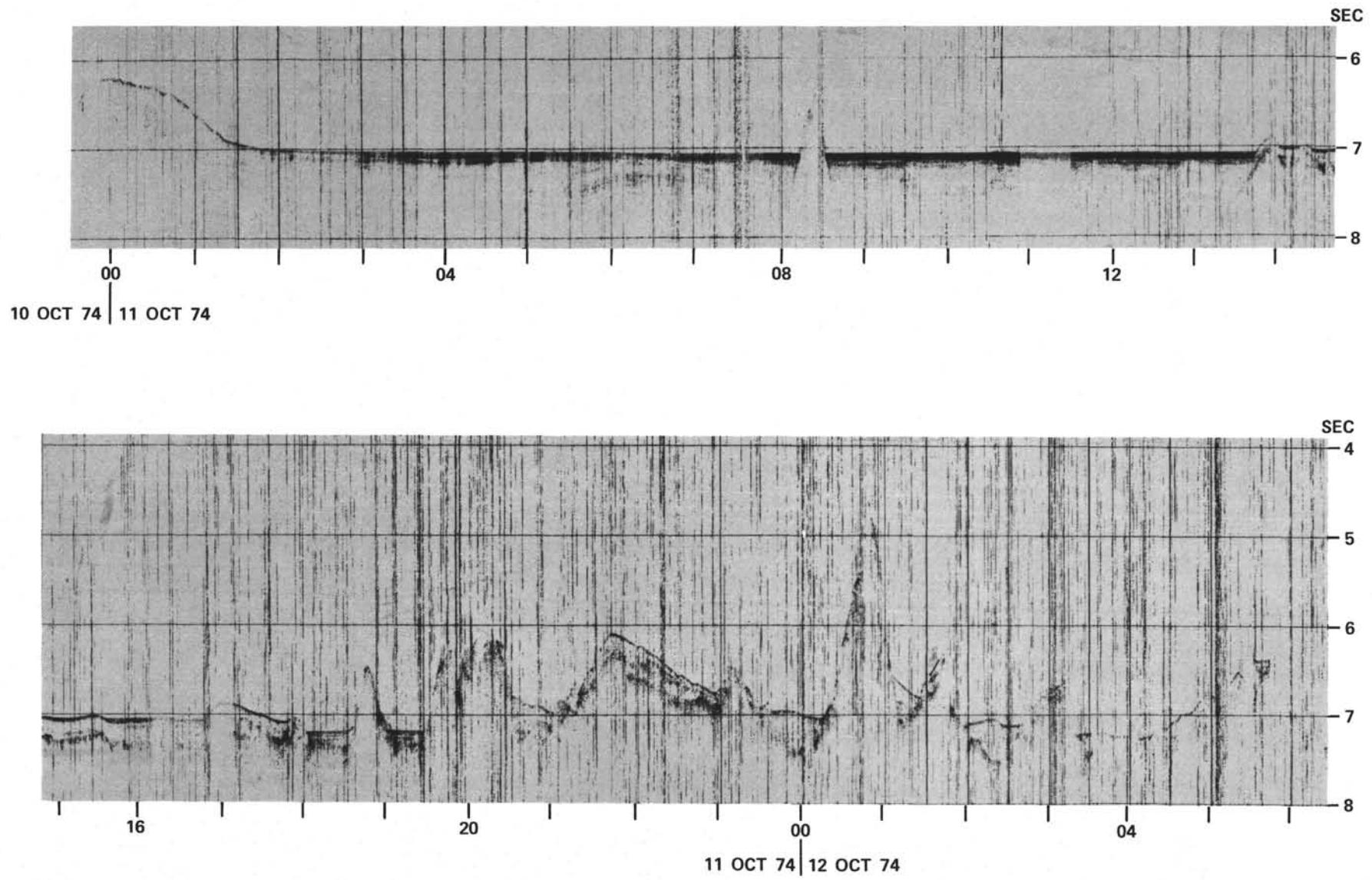
Appendix B. (*Continued*).



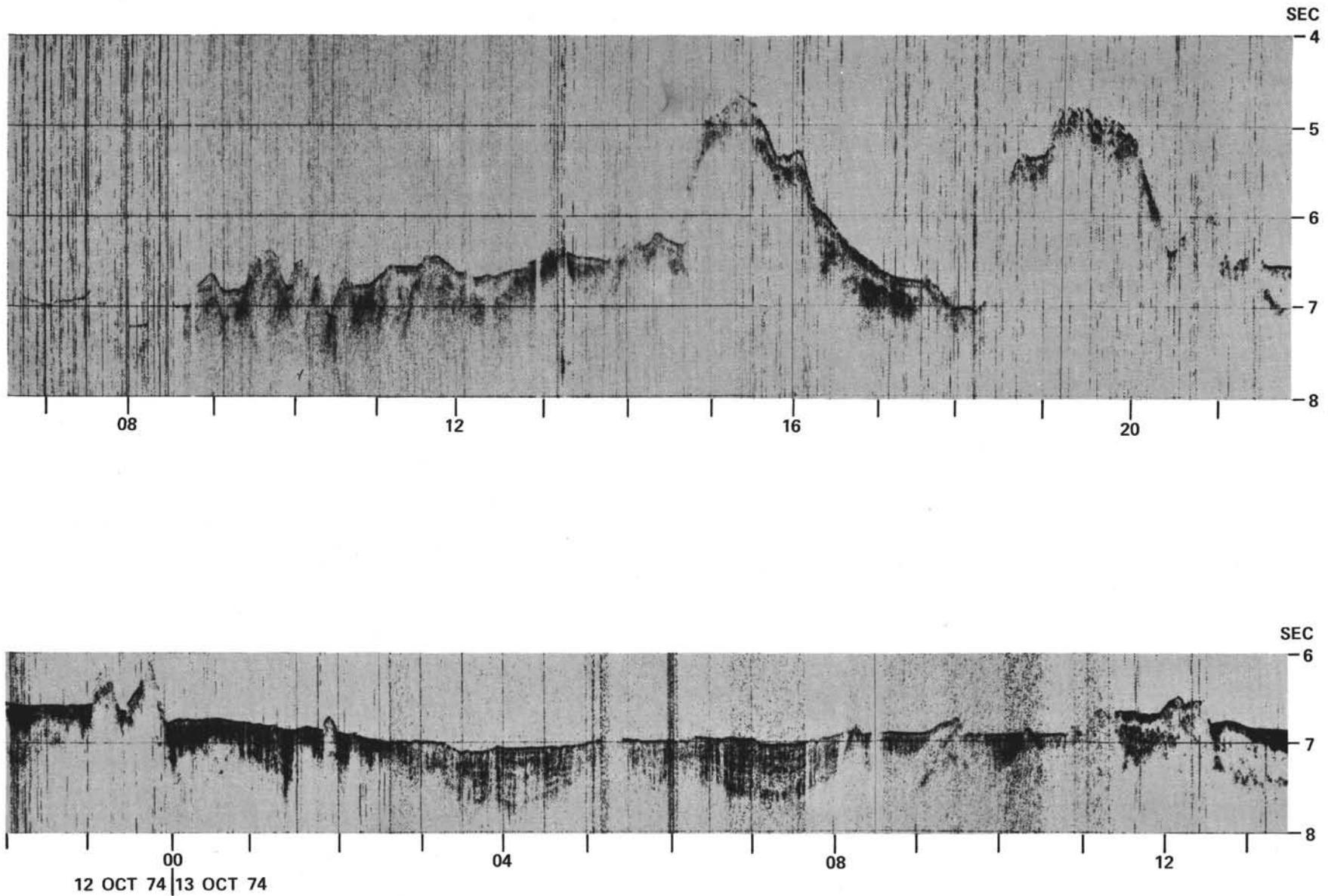
222°



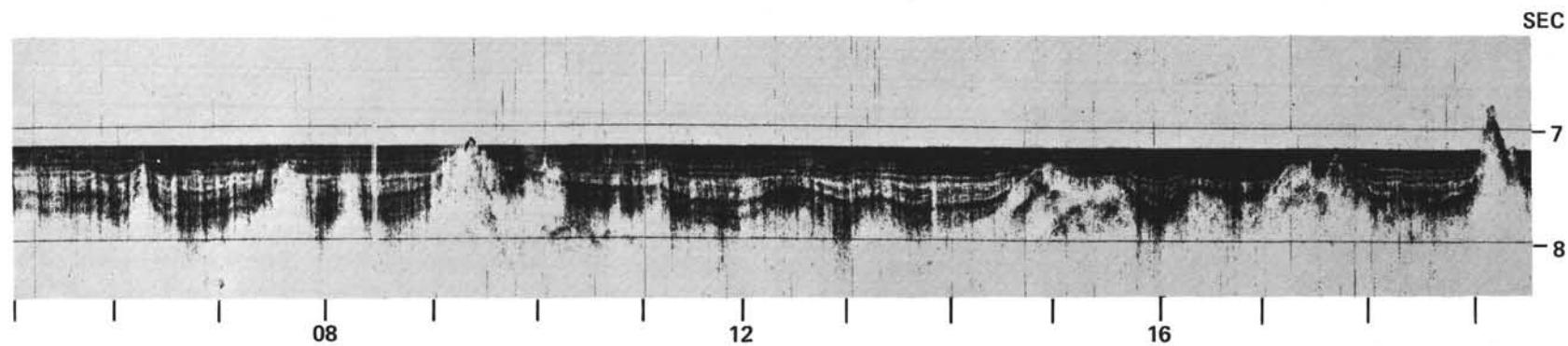
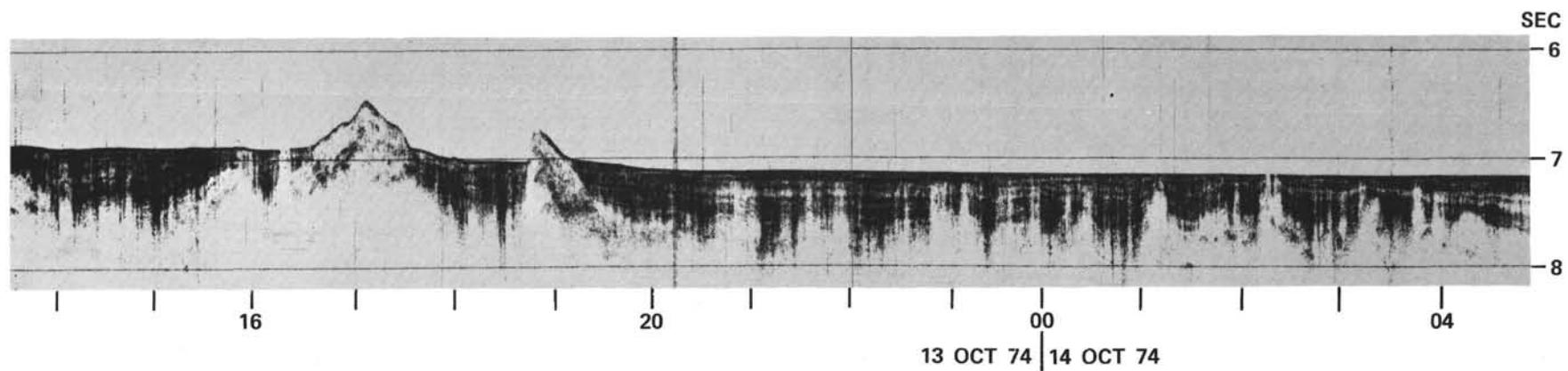
Appendix C. Continuous seismic reflection profiler records collected while underway, Leg 39, DSDP.



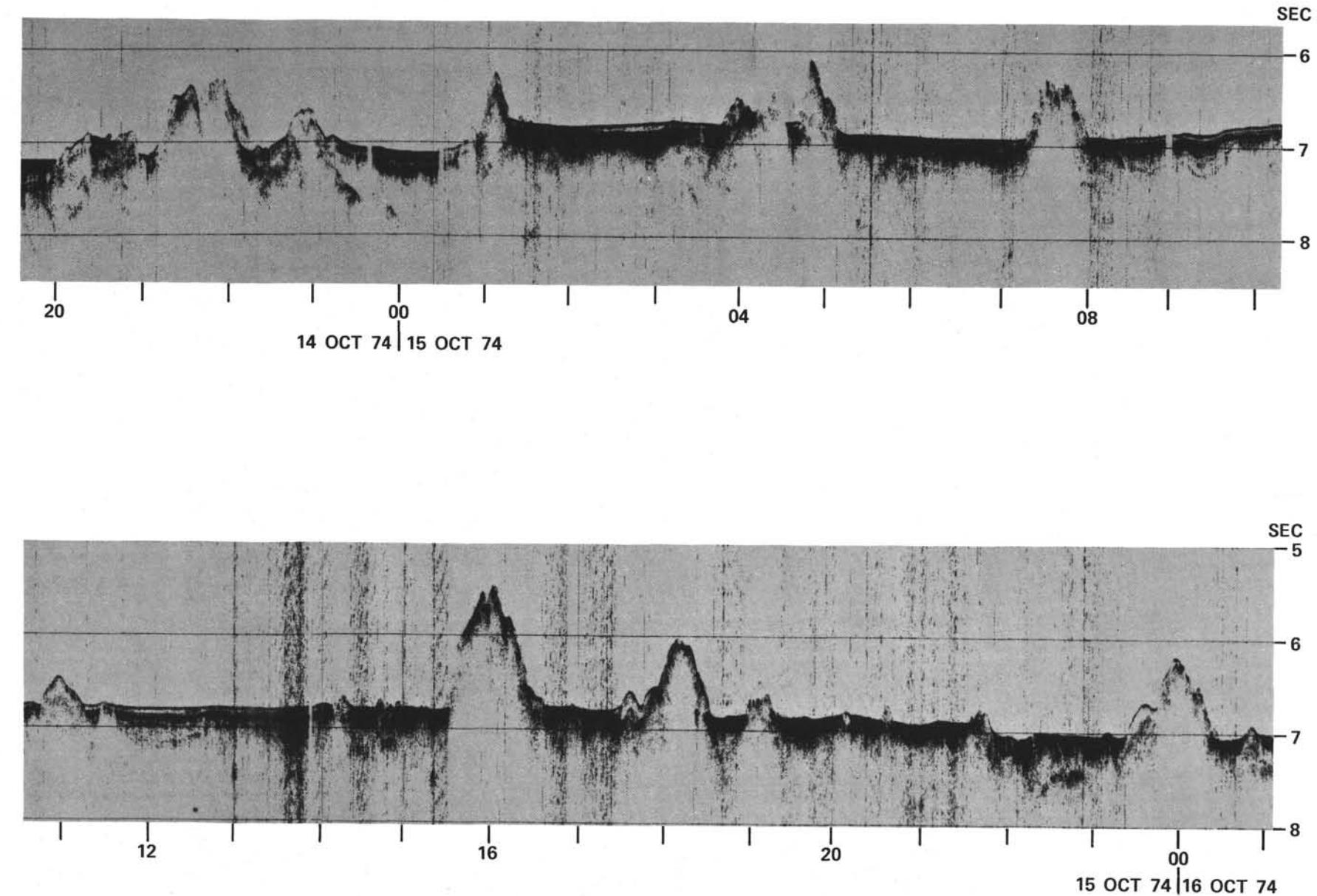
Appendix C. (Continued).



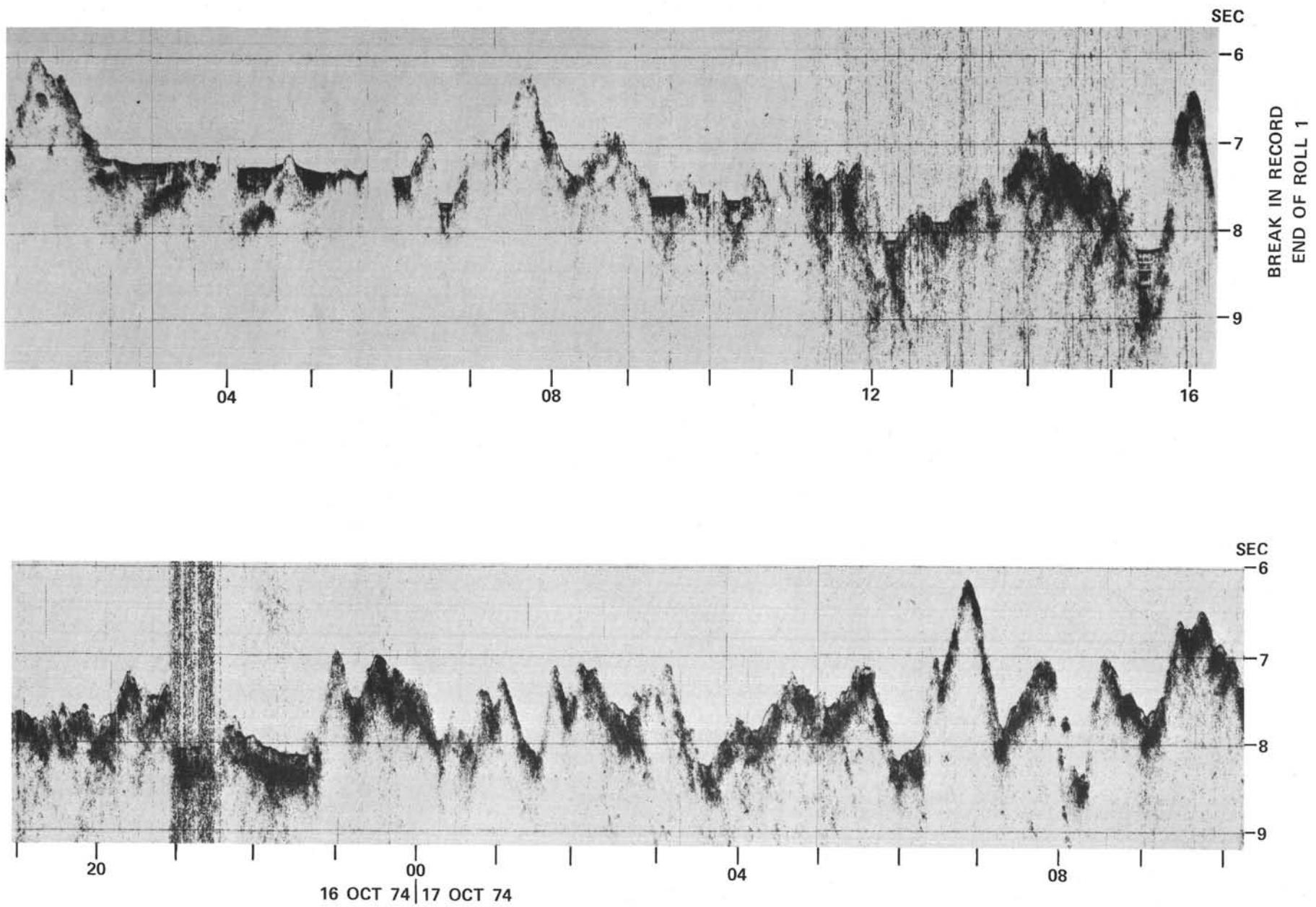
Appendix C. *(Continued).*



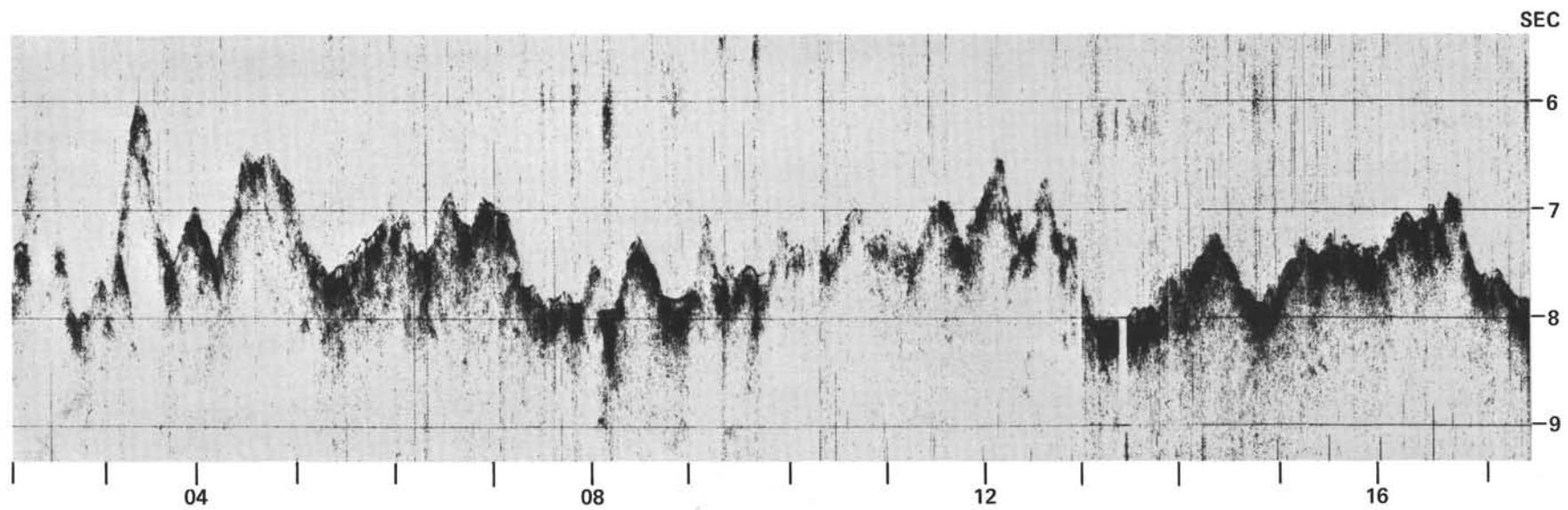
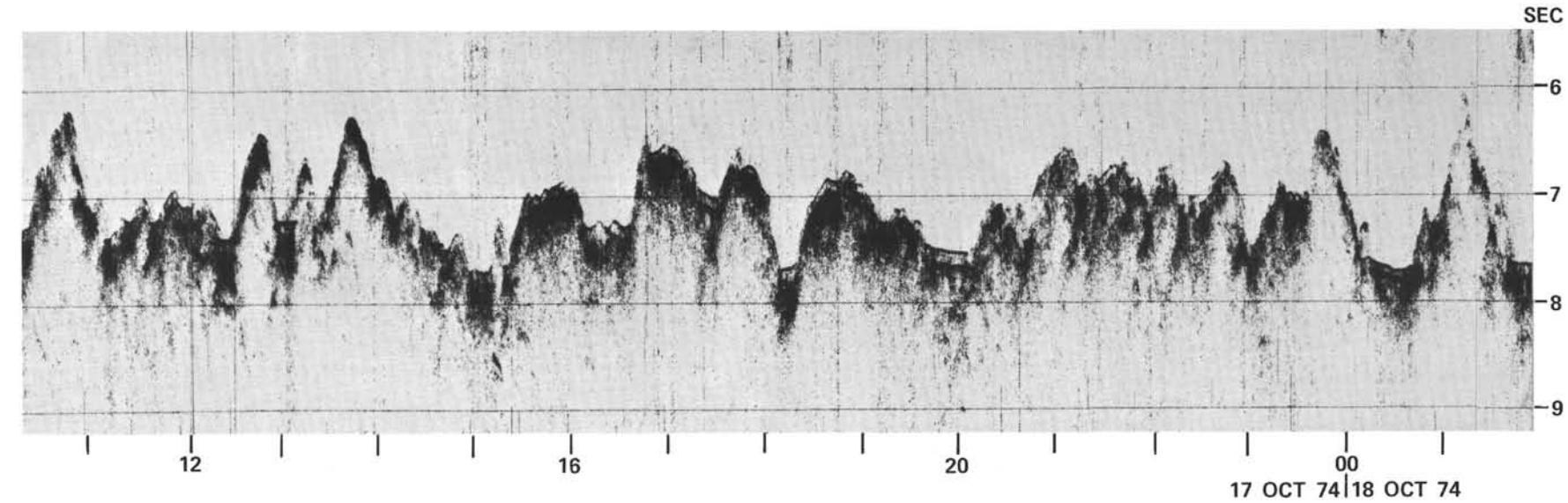
Appendix C. *(Continued).*



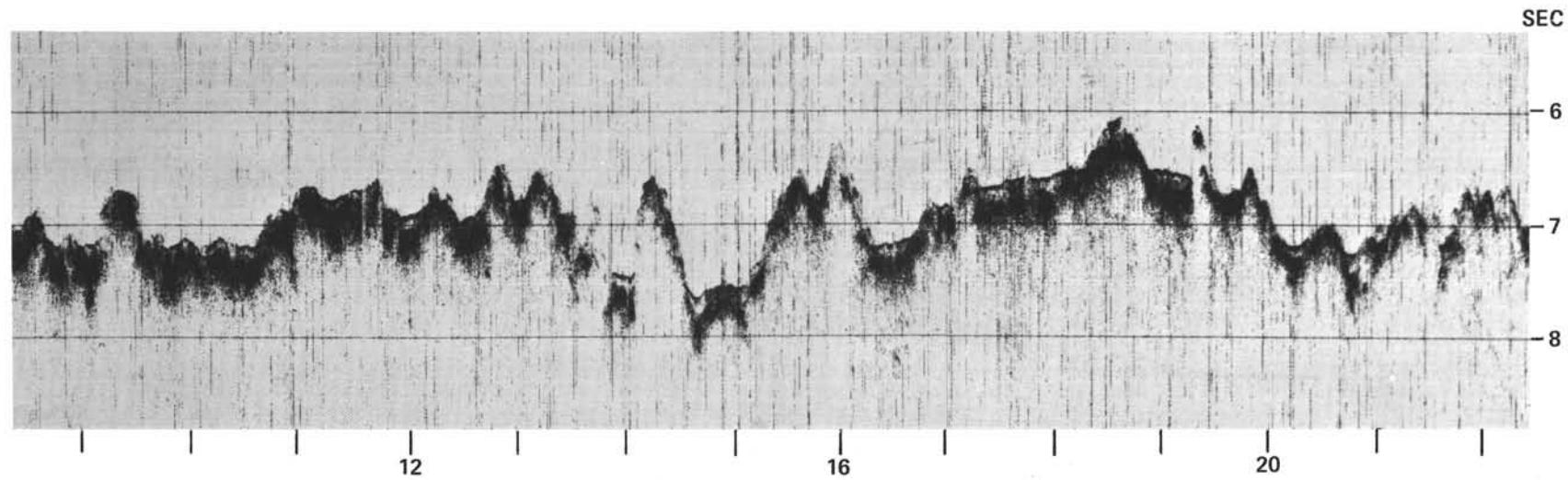
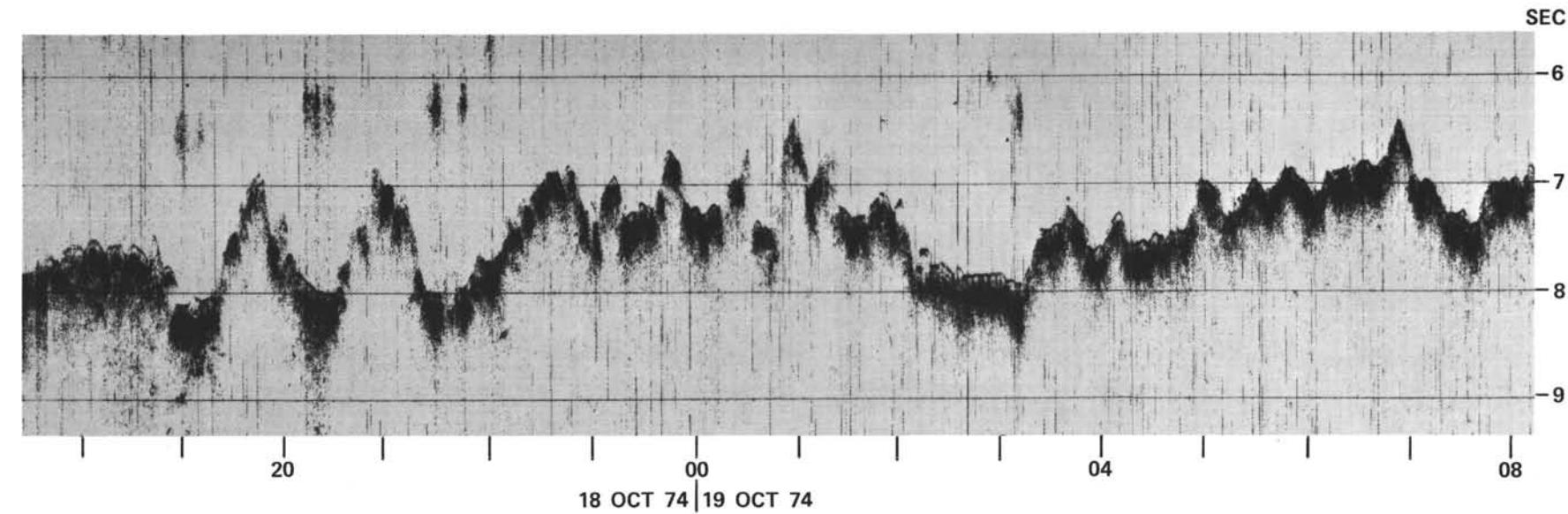
Appendix C. *(Continued).*



Appendix C. *(Continued).*

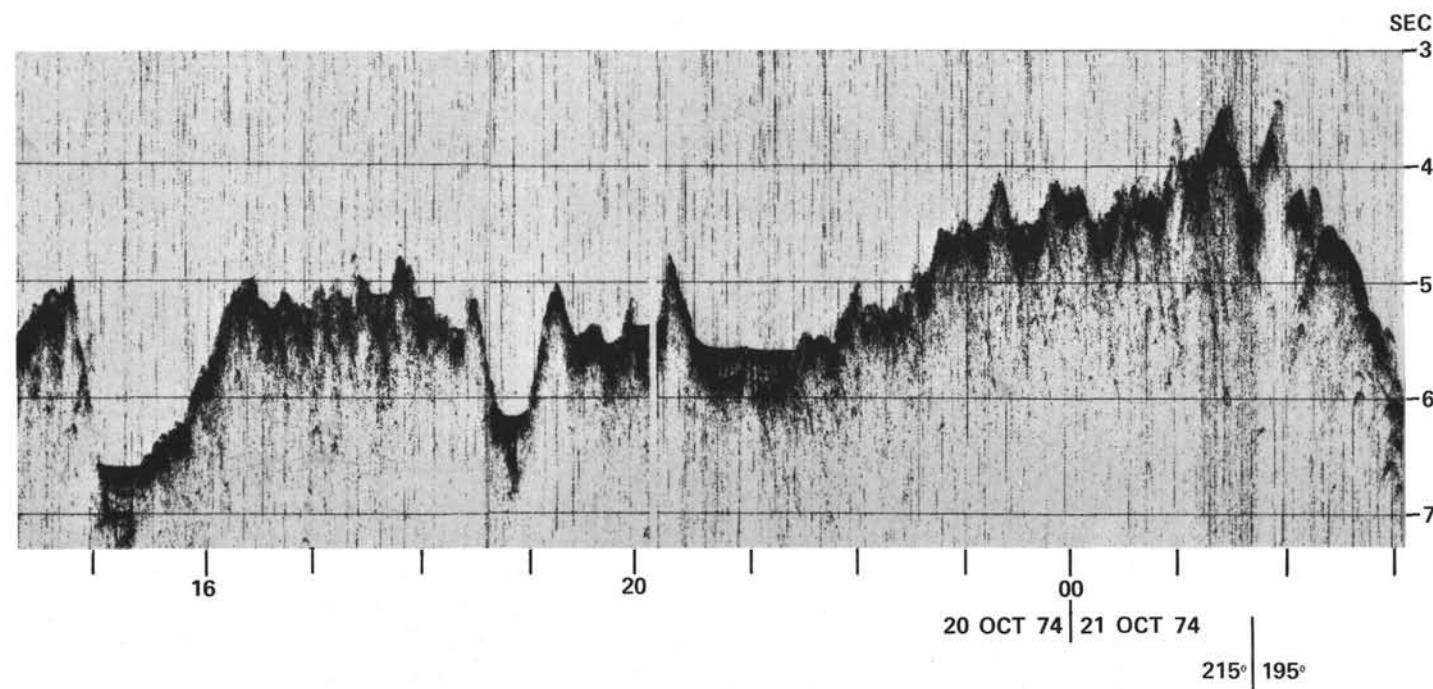
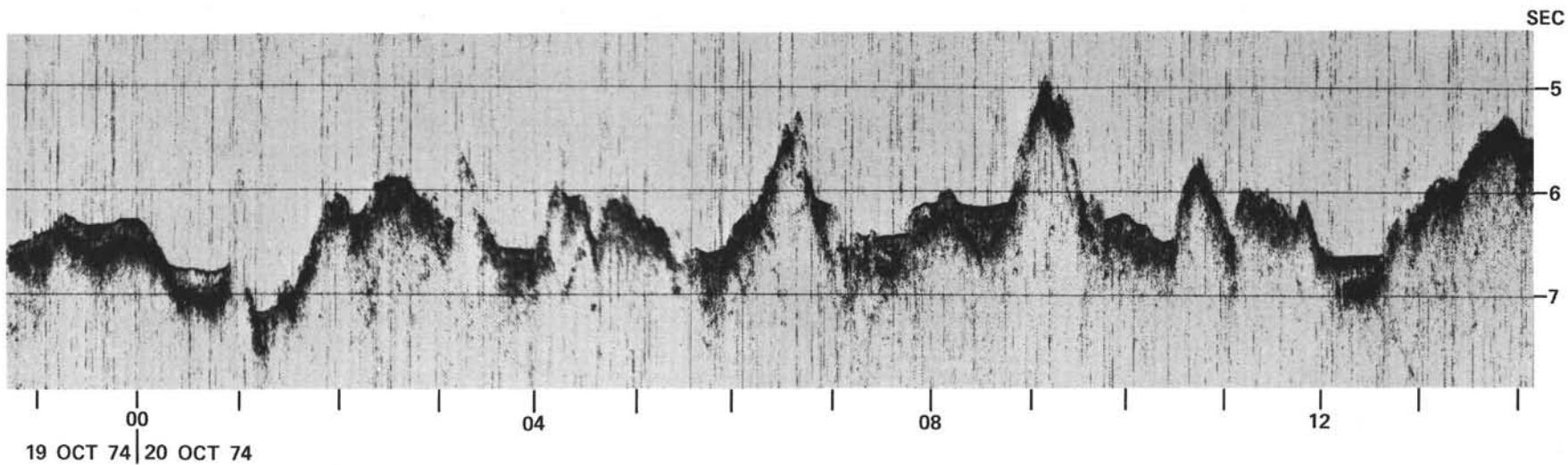


Appendix C. (Continued).



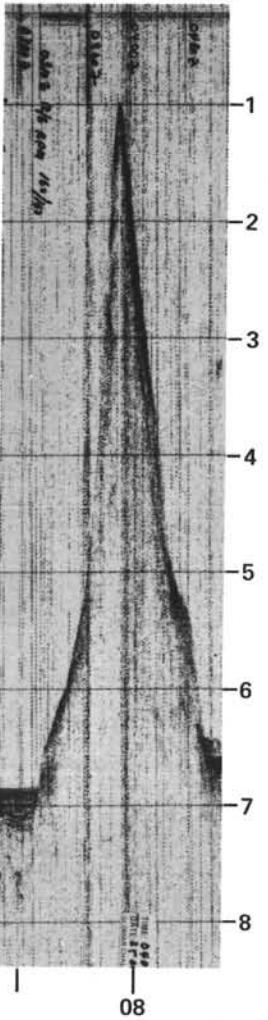
Appendix C. (Continued).

1020



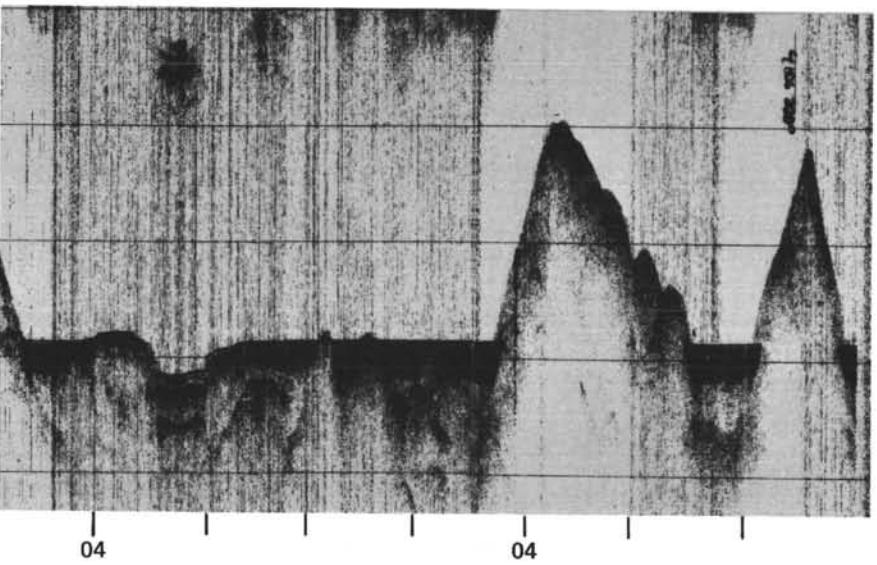
Appendix C. *(Continued).*

SEC



DEPART 0000Z 25 OCT 74
ON SITE 353

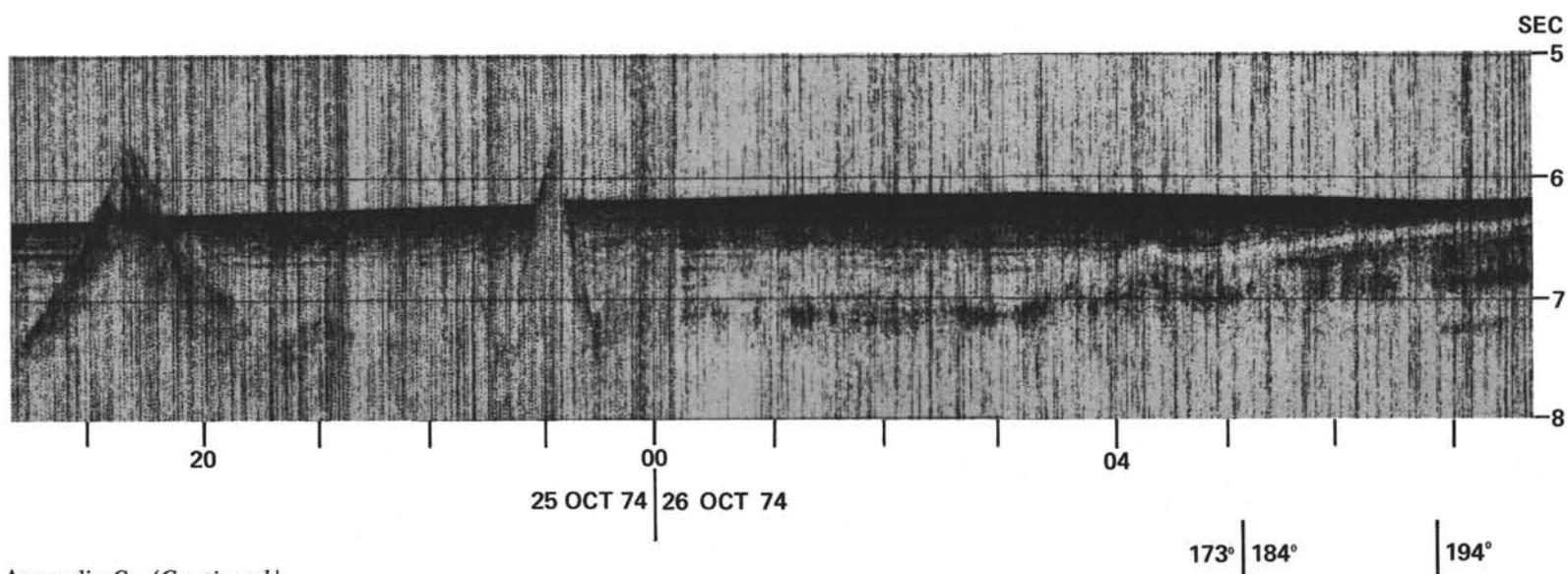
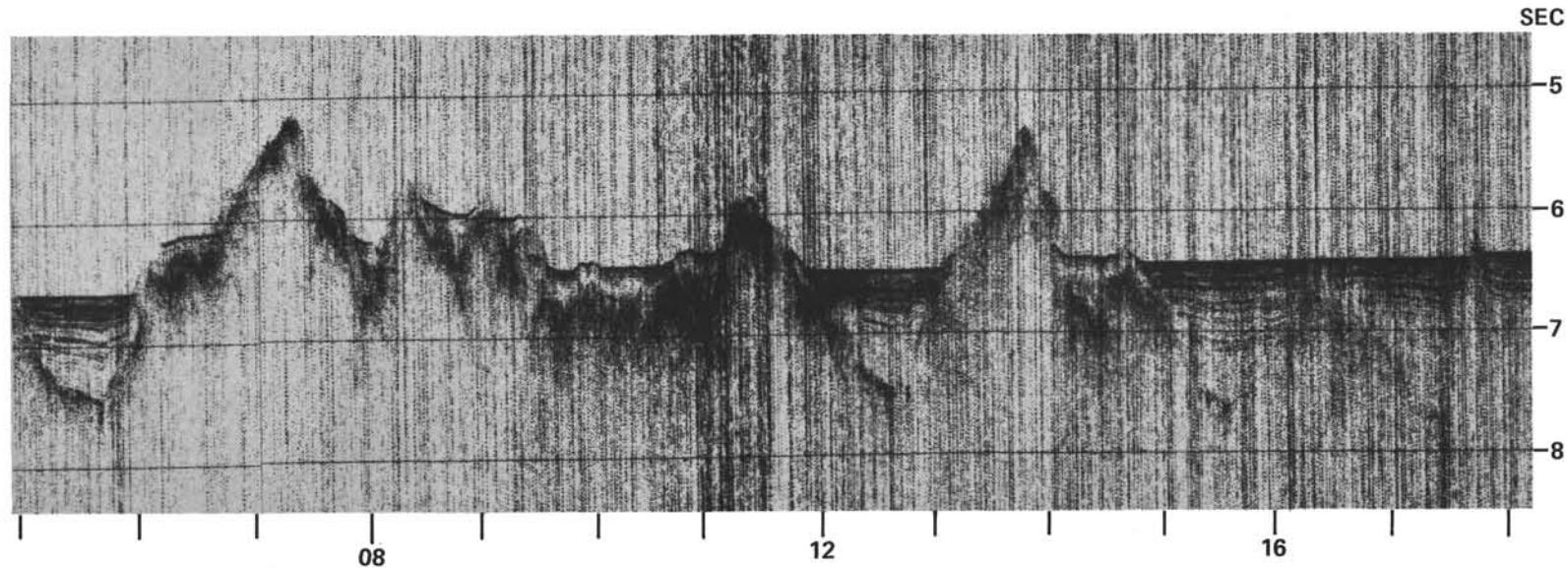
END OF ROLL 2 1055Z 21 OCT 74



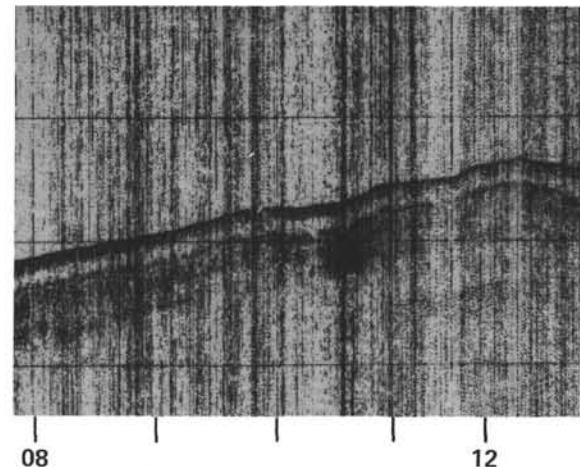
$\frac{275^\circ}{010^\circ}$
 $\frac{110^\circ}{255^\circ}$
 $\frac{043^\circ}{200^\circ}$
 $\frac{}{190^\circ}$

Appendix C. (Continued).

1022



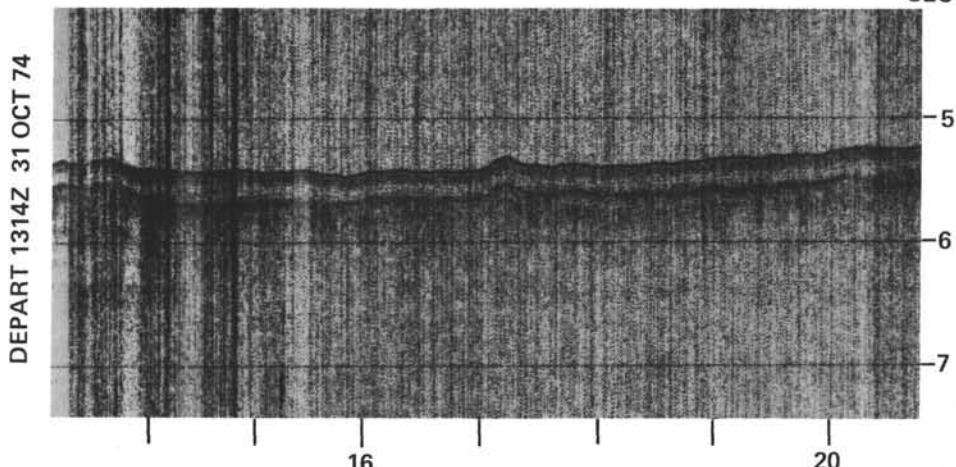
Appendix C. (Continued).



1242Z 26 OCT 74

END OF ROLL 3

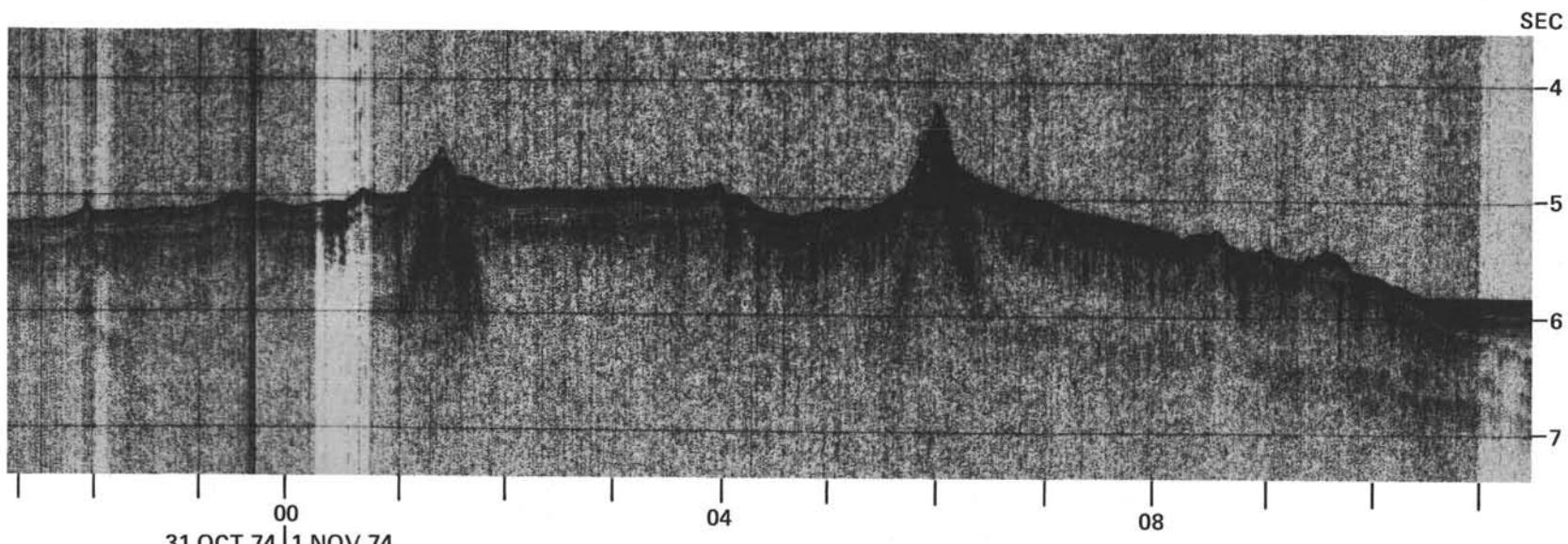
ON SITE 354



DEPART 1314Z 31 OCT 74

$\overline{187^{\circ}}$
 $\overline{140^{\circ}}$
 $\overline{145^{\circ}}$

$\overline{158^{\circ}}$

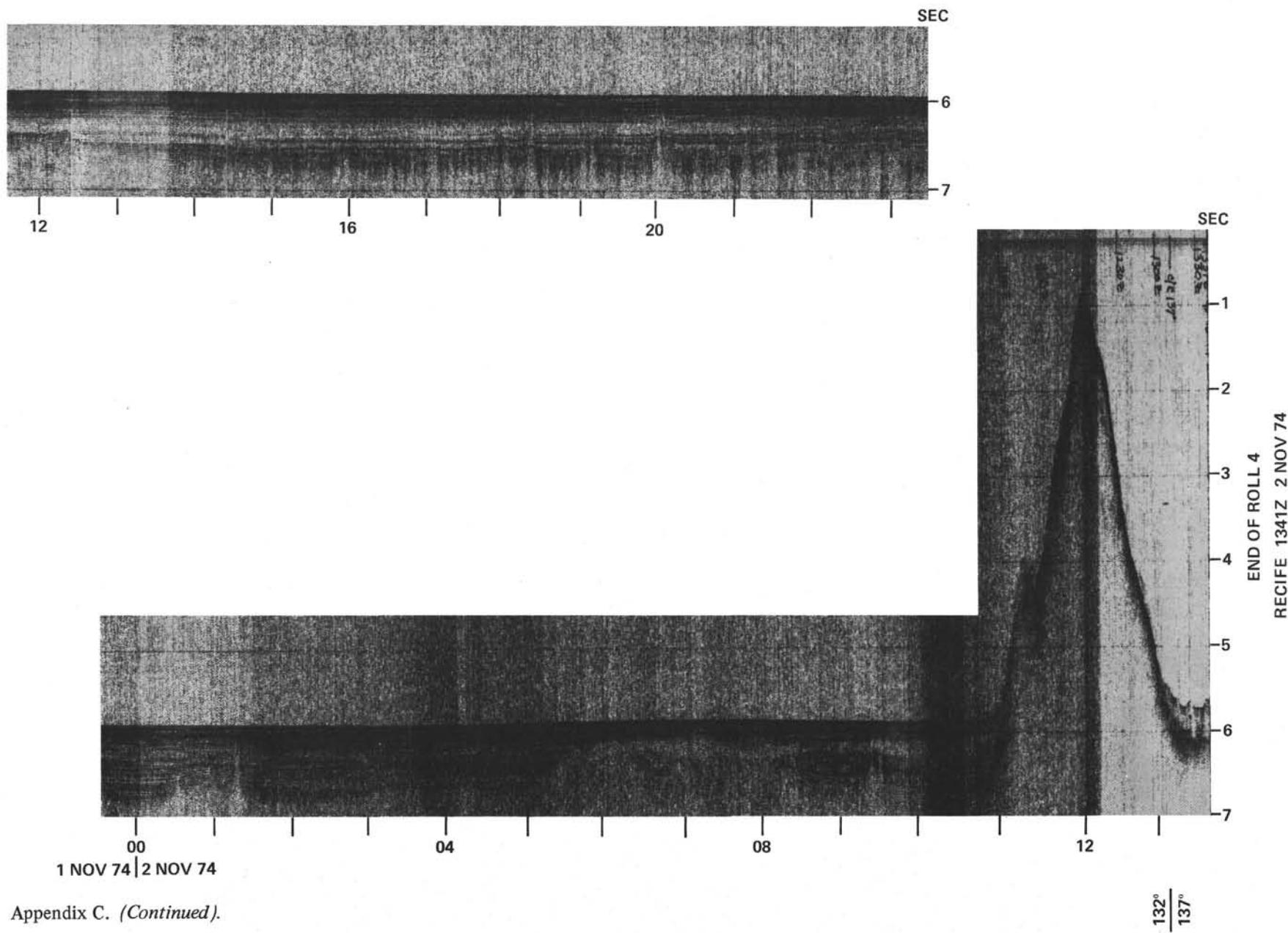


31 OCT 74 | 1 NOV 74

$\overline{151^{\circ}}$
 $\overline{145^{\circ}}$
 $\overline{140^{\circ}}$

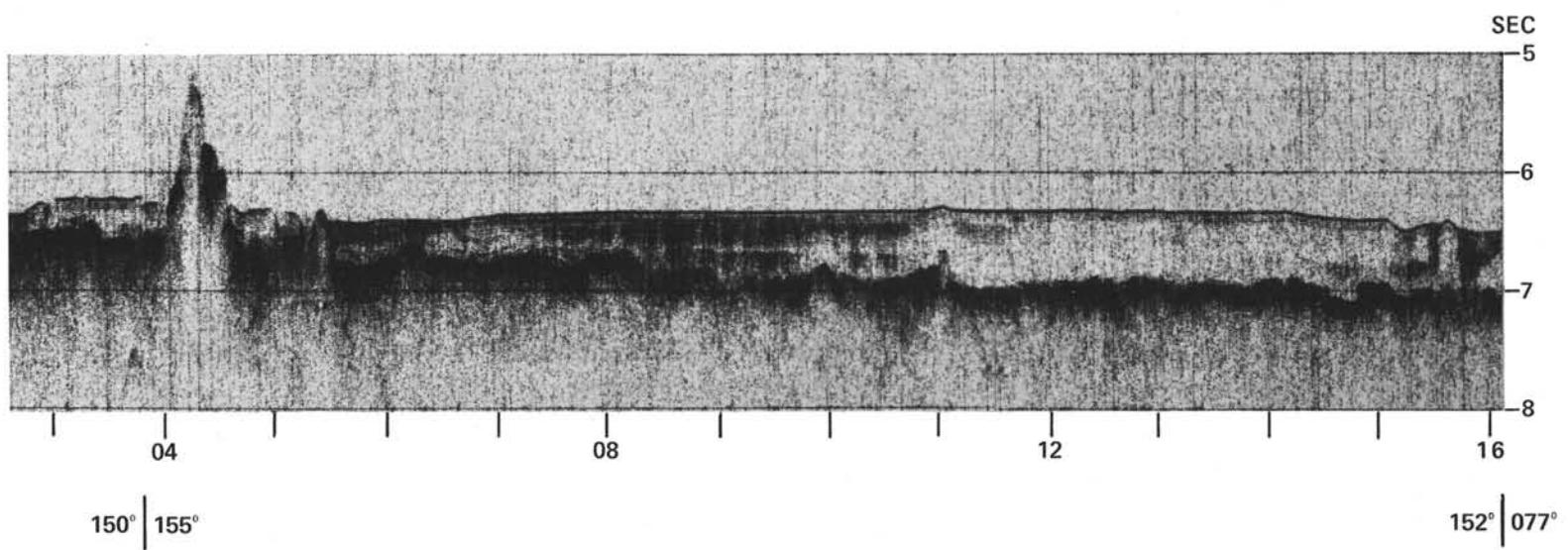
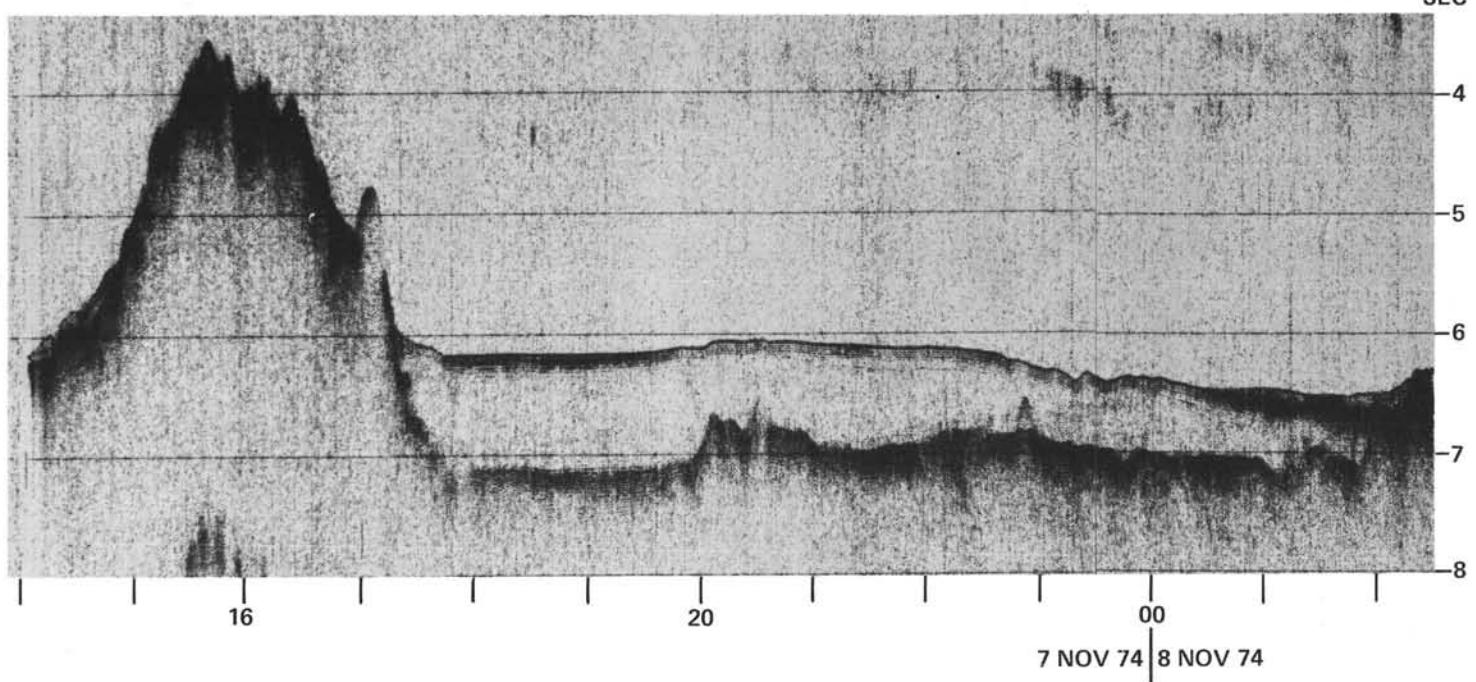
$\overline{135^{\circ}}$

1024



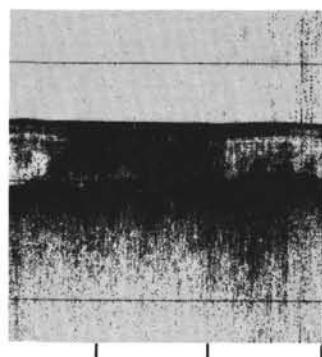
Appendix C. (Continued).

1346Z RECIFE
TO
SITE 355



Appendix C. (*Continued*).

1026

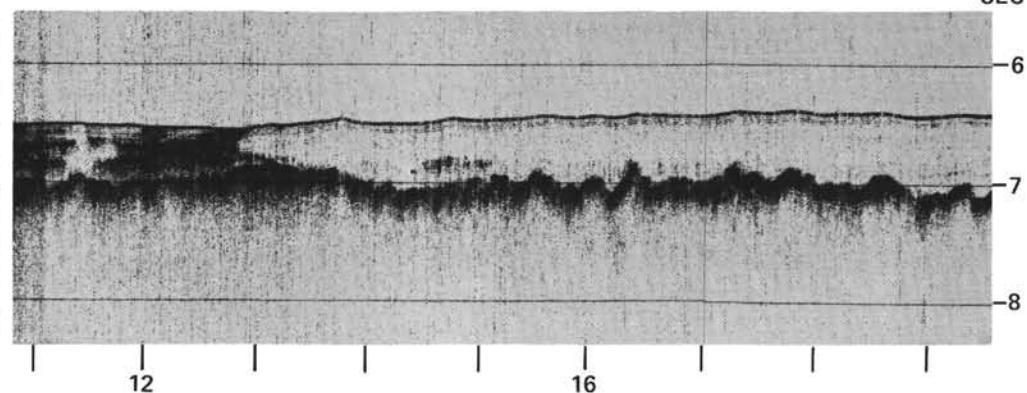


1900Z 8 NOV 74

END OF ROLL 5

ON SITE 355

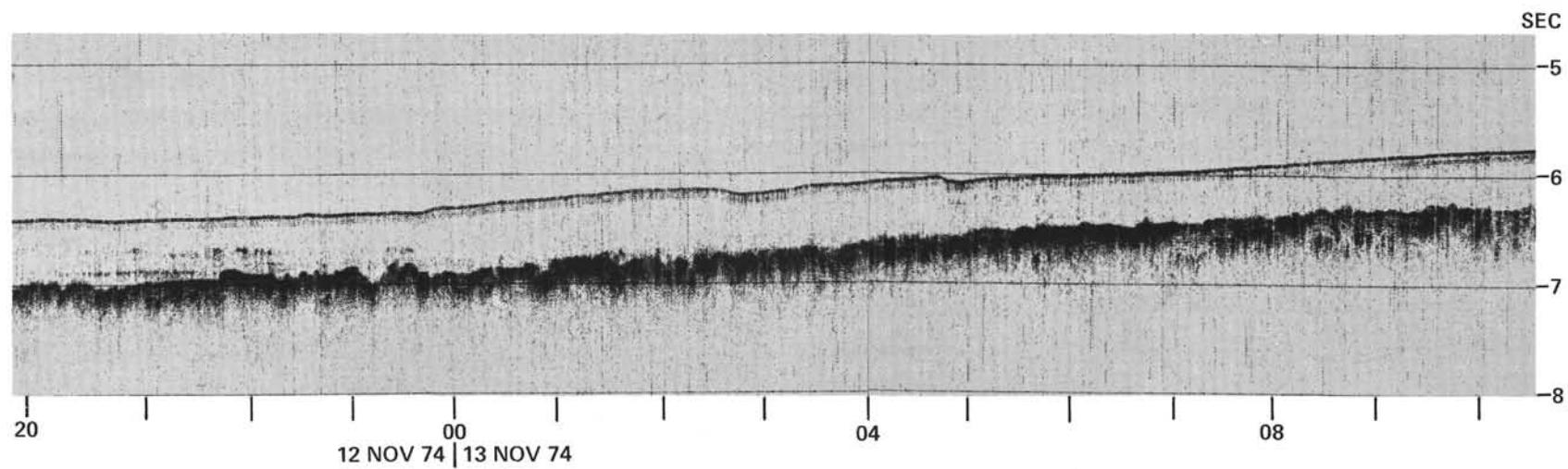
DEPART 1030Z 12 NOV 74



12

16

077° | 259°



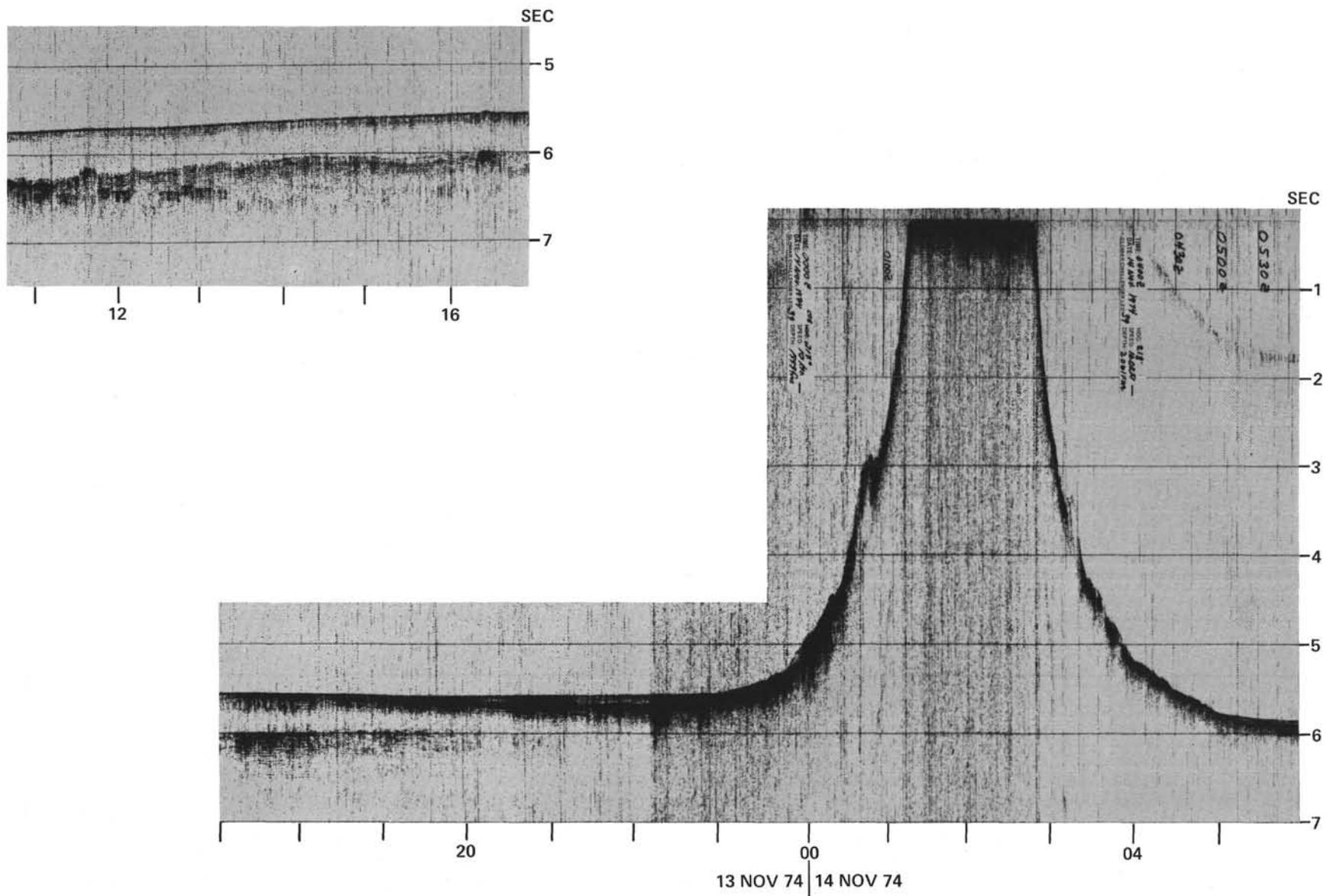
20

00

04

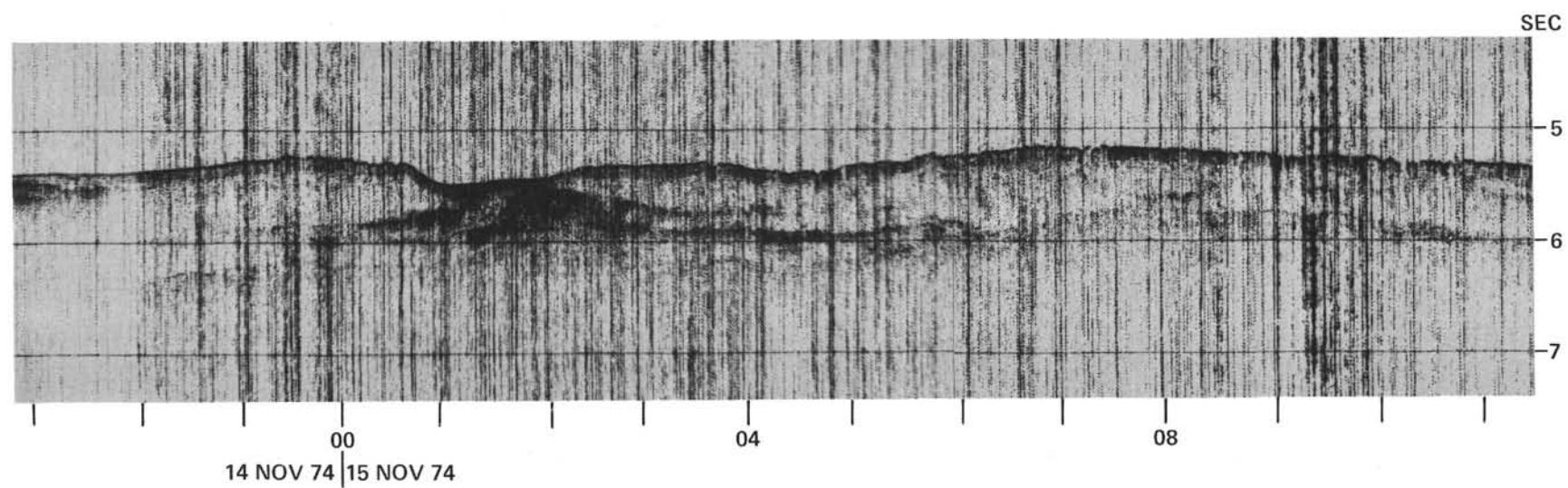
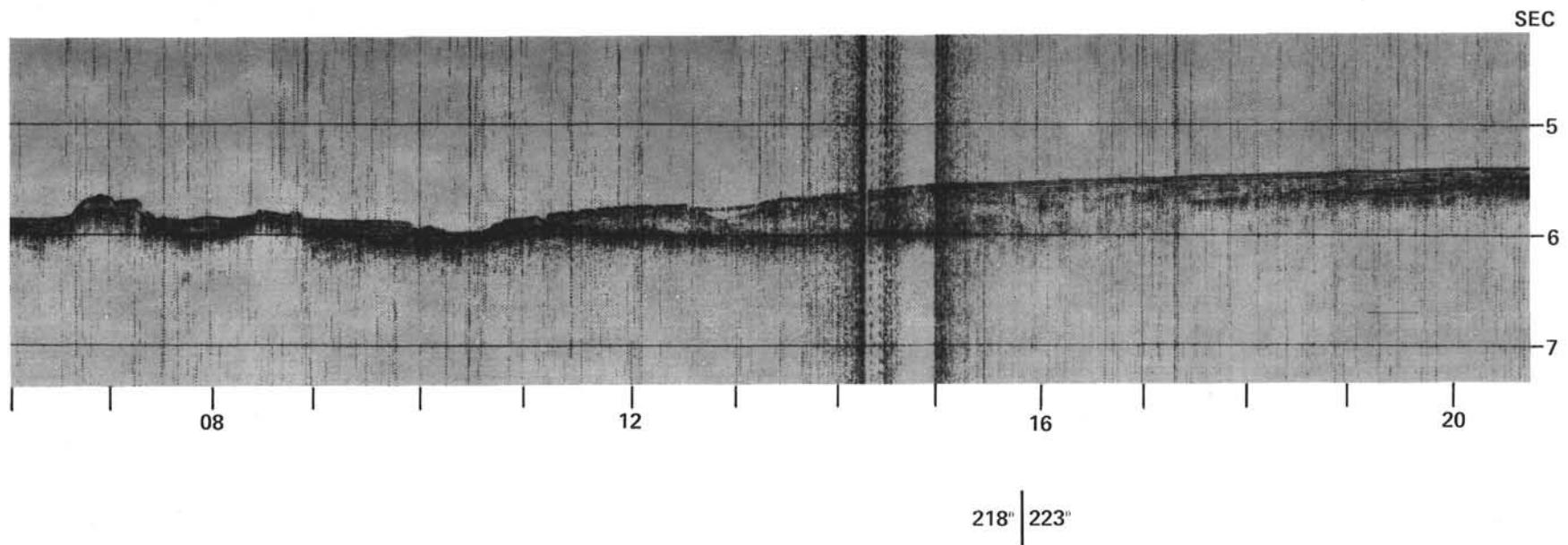
08

Appendix C. (Continued).

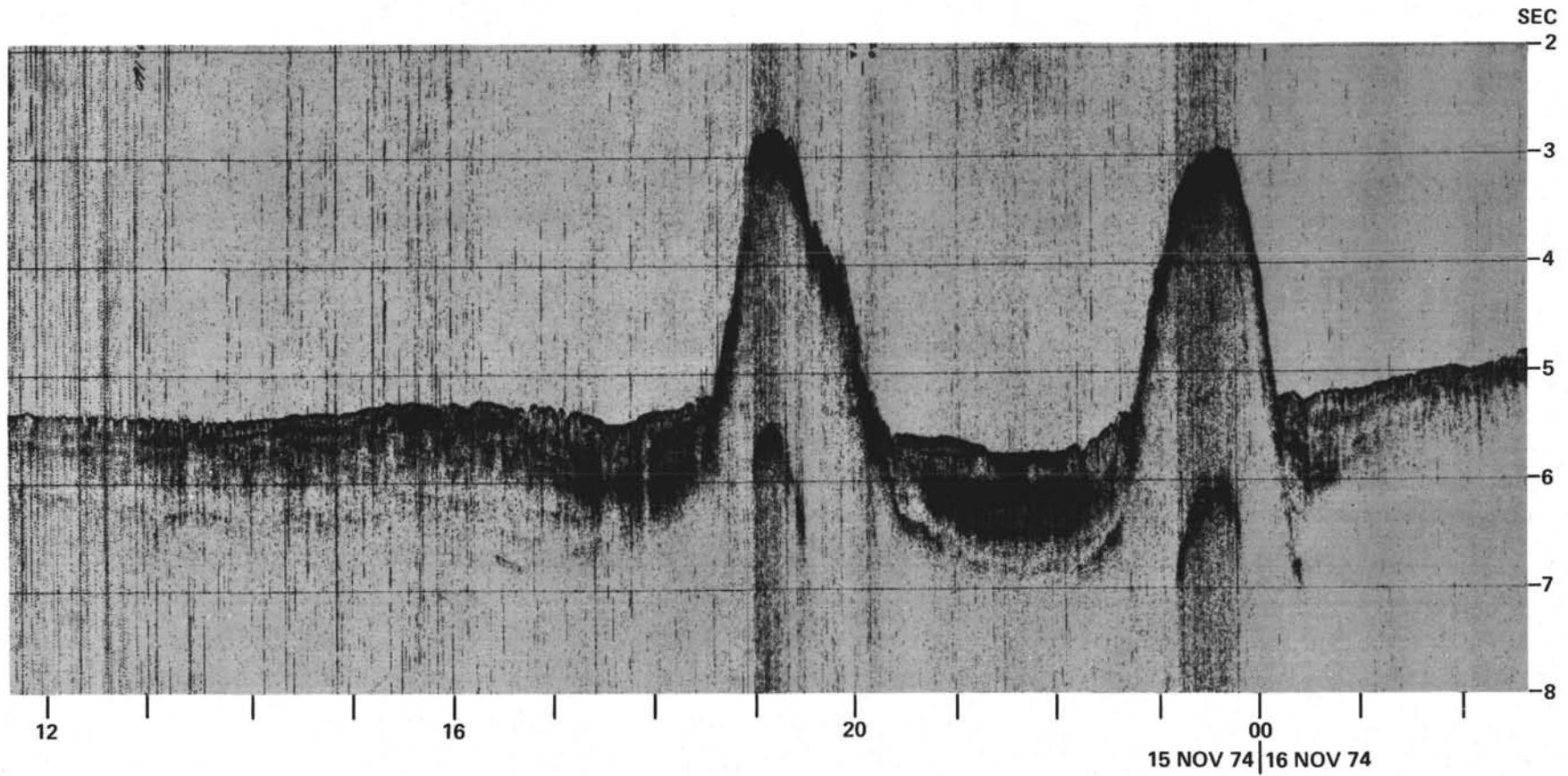


Appendix C. (Continued).

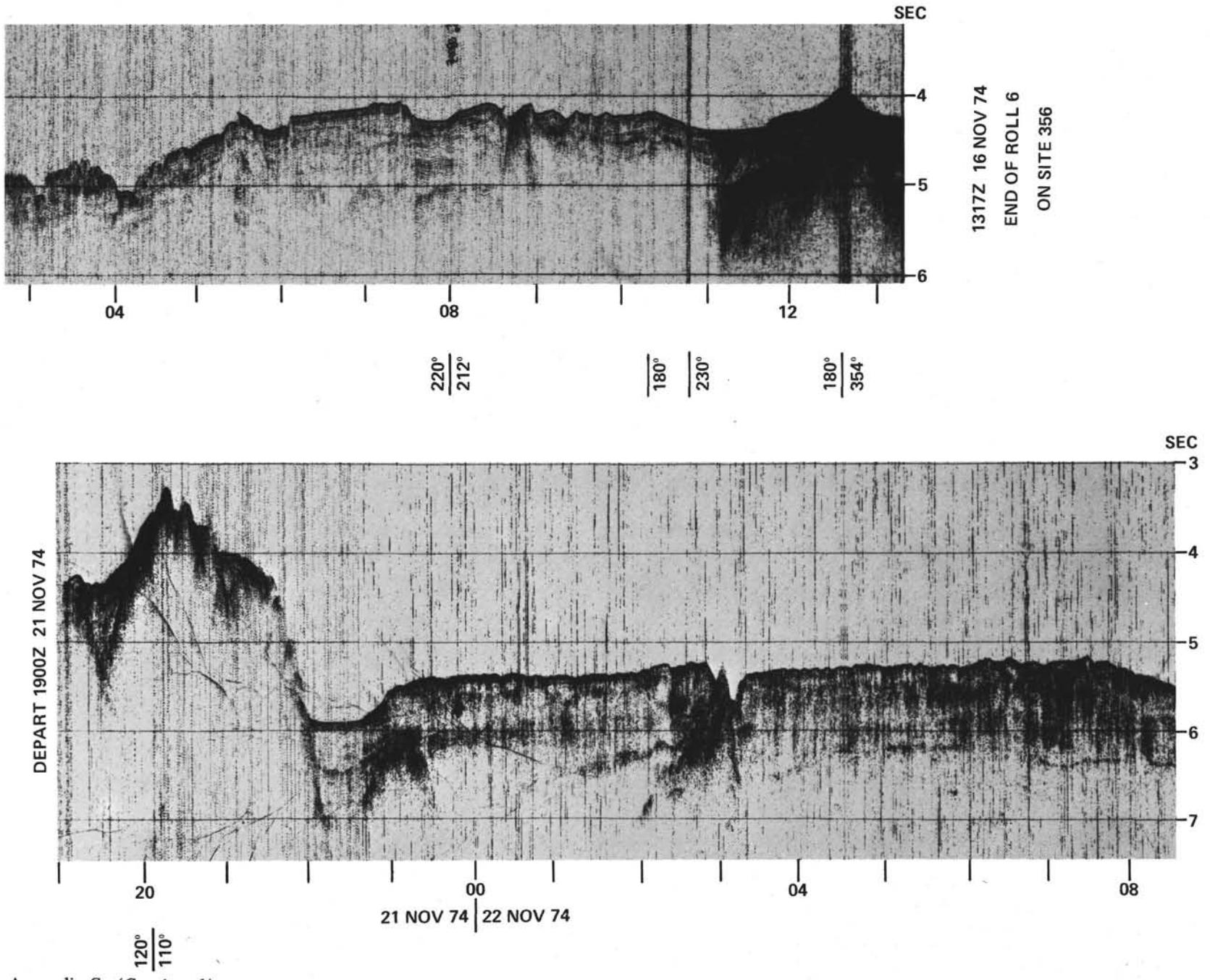
1028



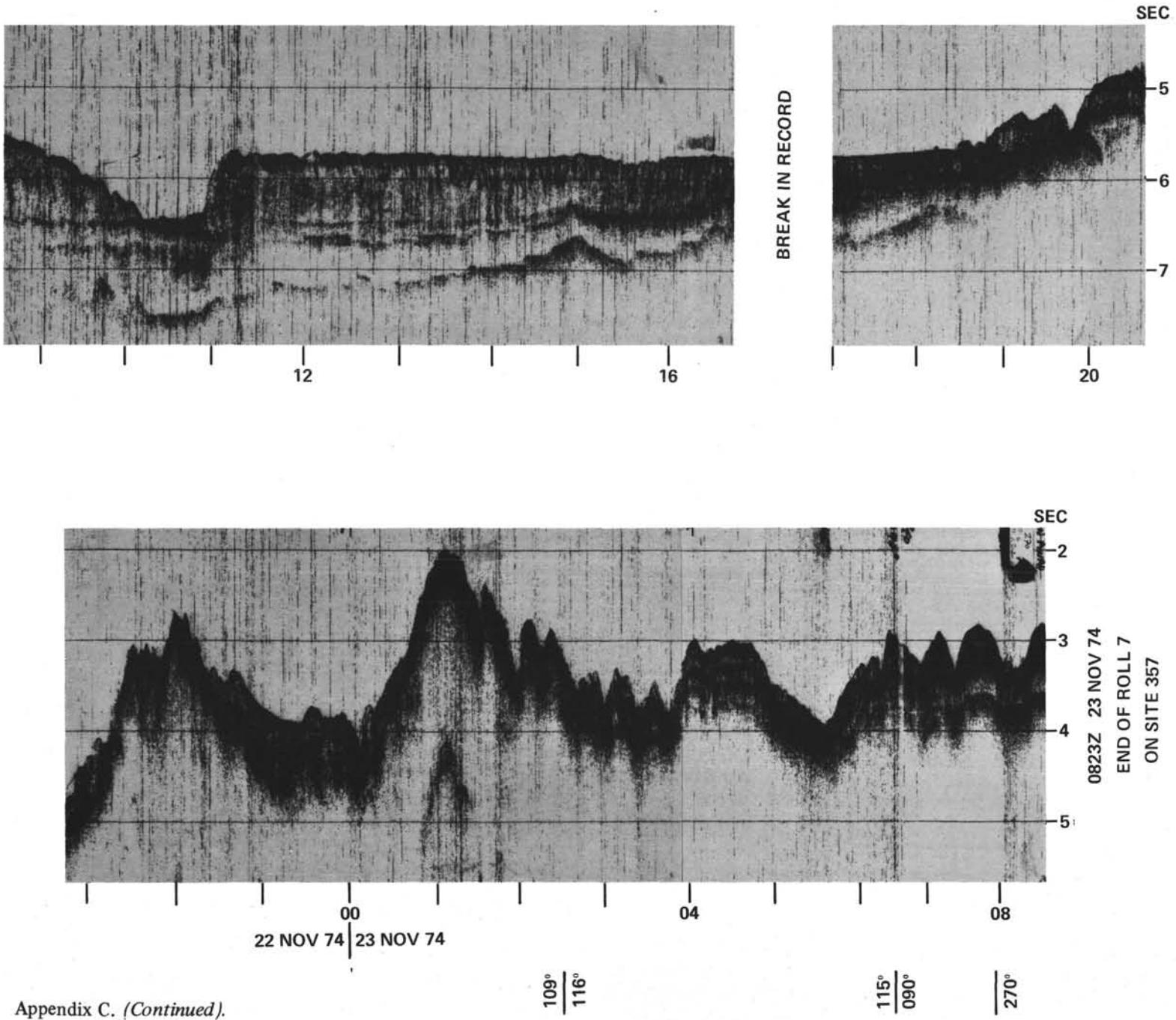
Appendix C. *(Continued).*



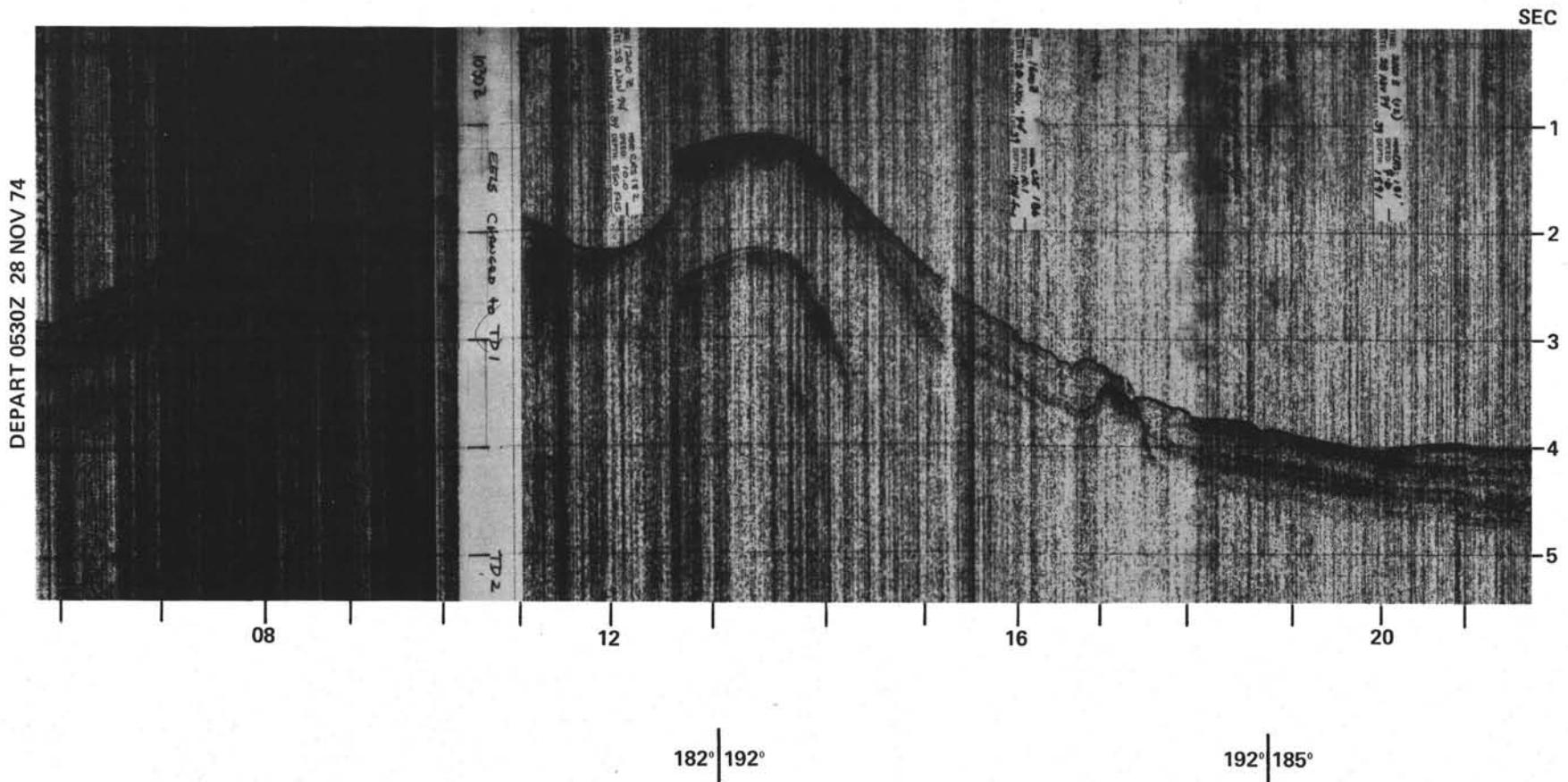
Appendix C. *(Continued).*



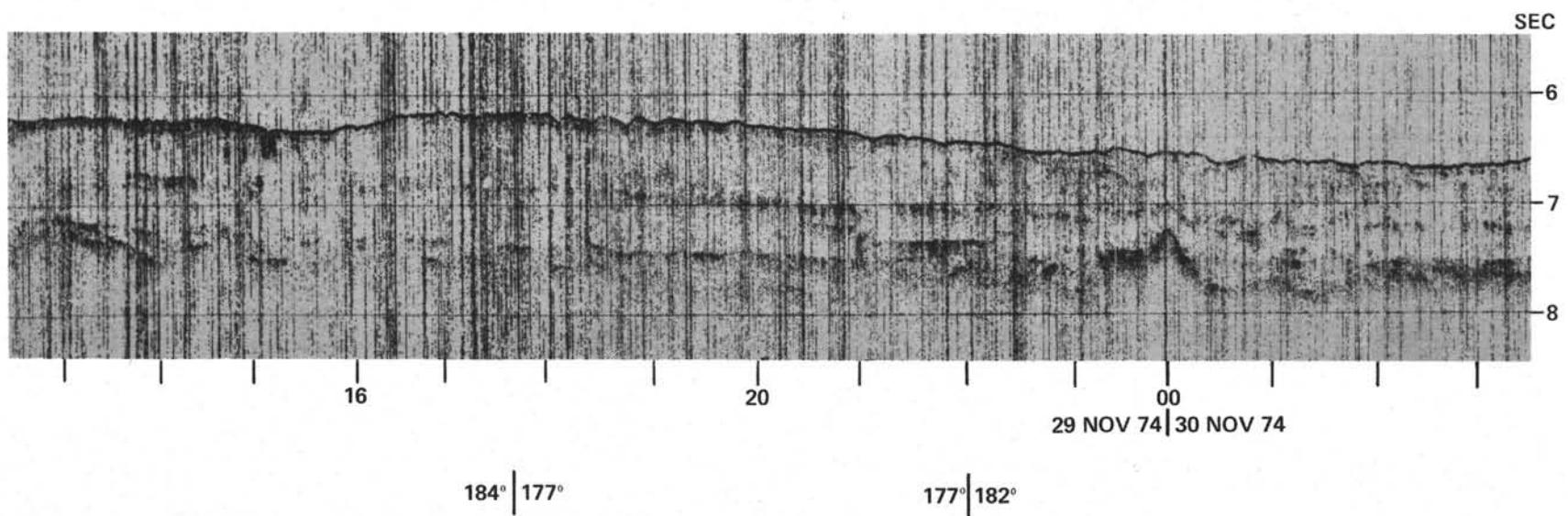
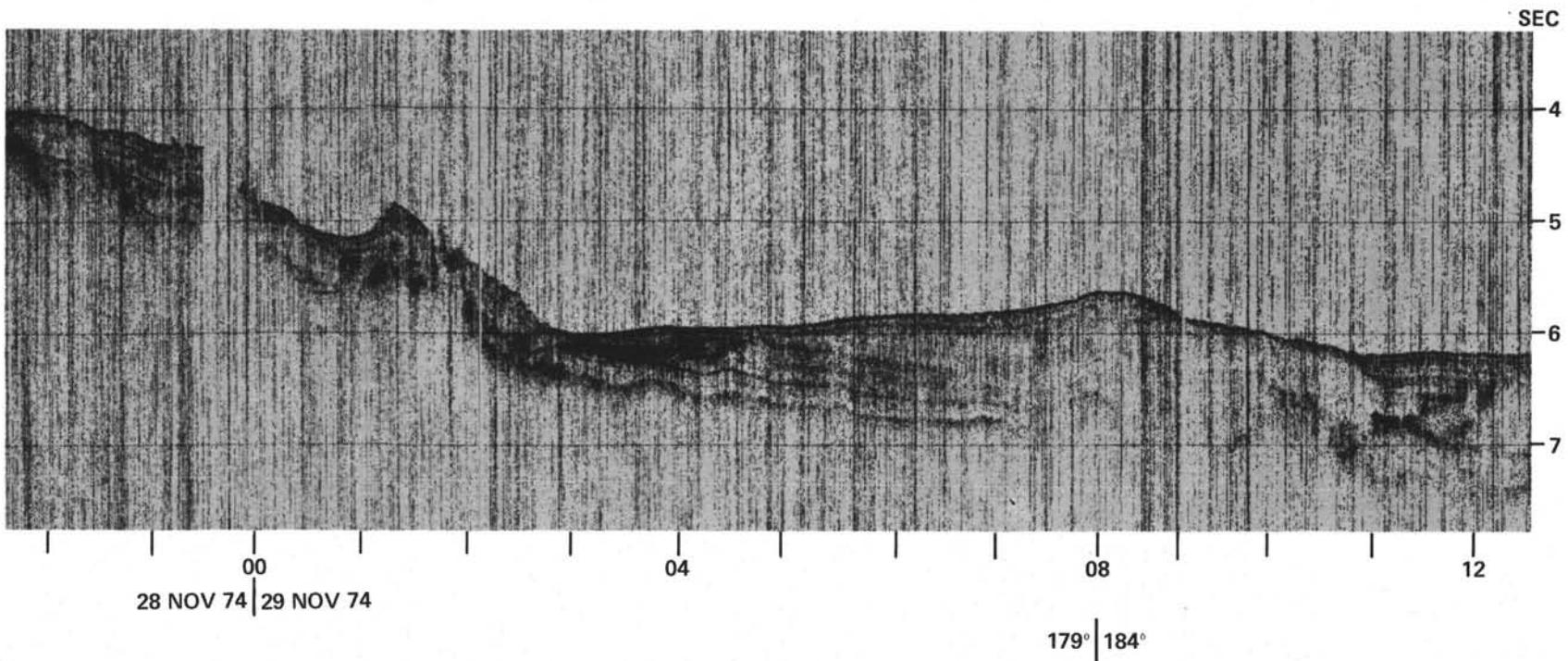
Appendix C. (Continued).



Appendix C. (Continued).

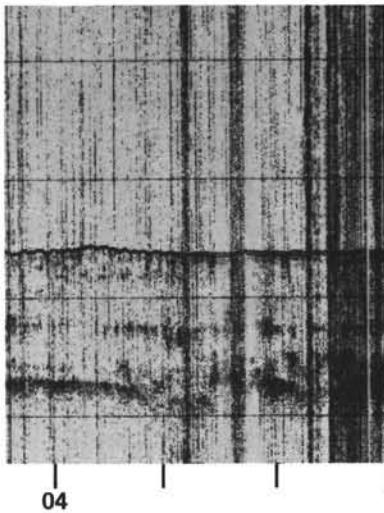


Appendix C. (Continued).



Appendix C. (Continued).

1034

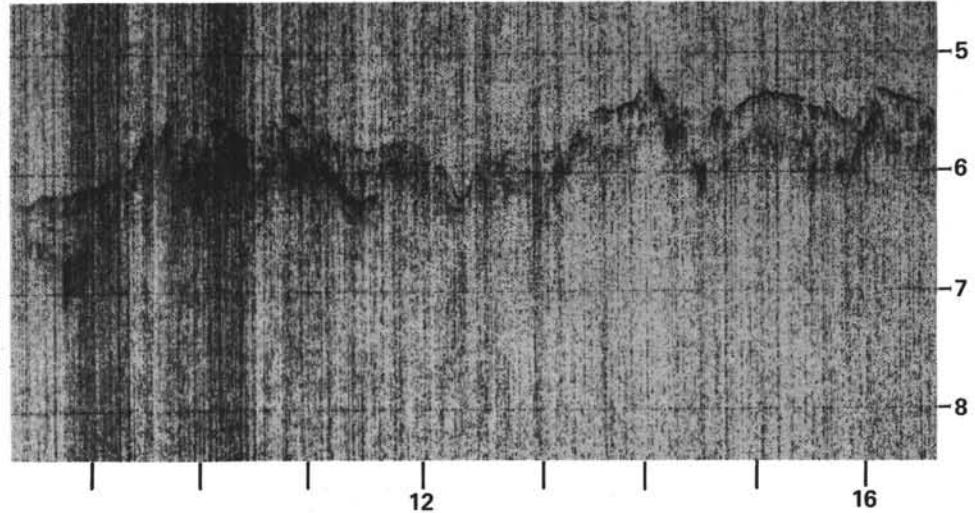


0702Z 30 NOV 74
END OF ROLL 8

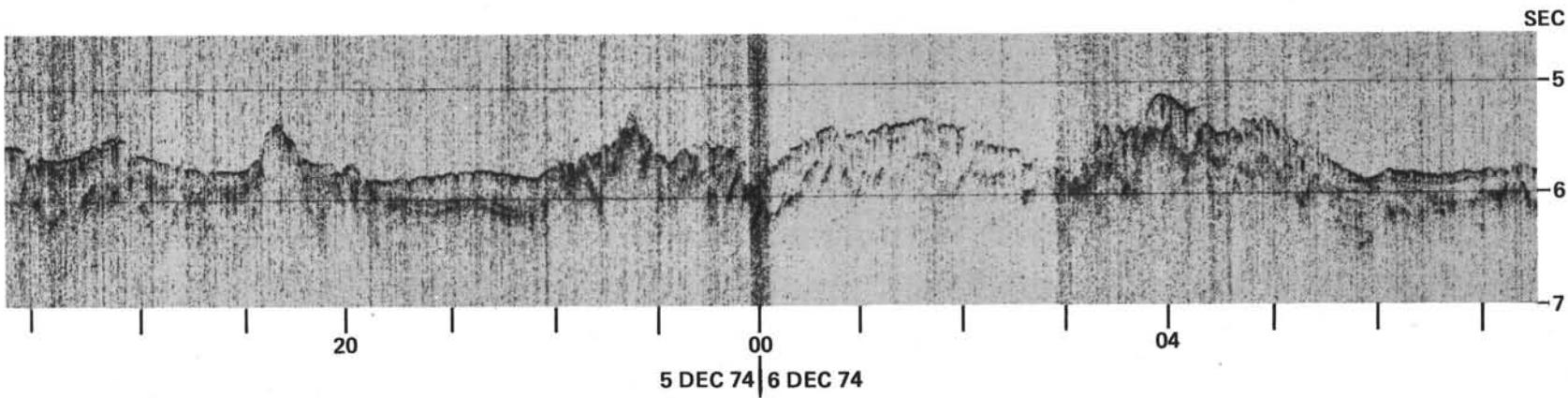
ON SITE 358

183° | 268° | 088°

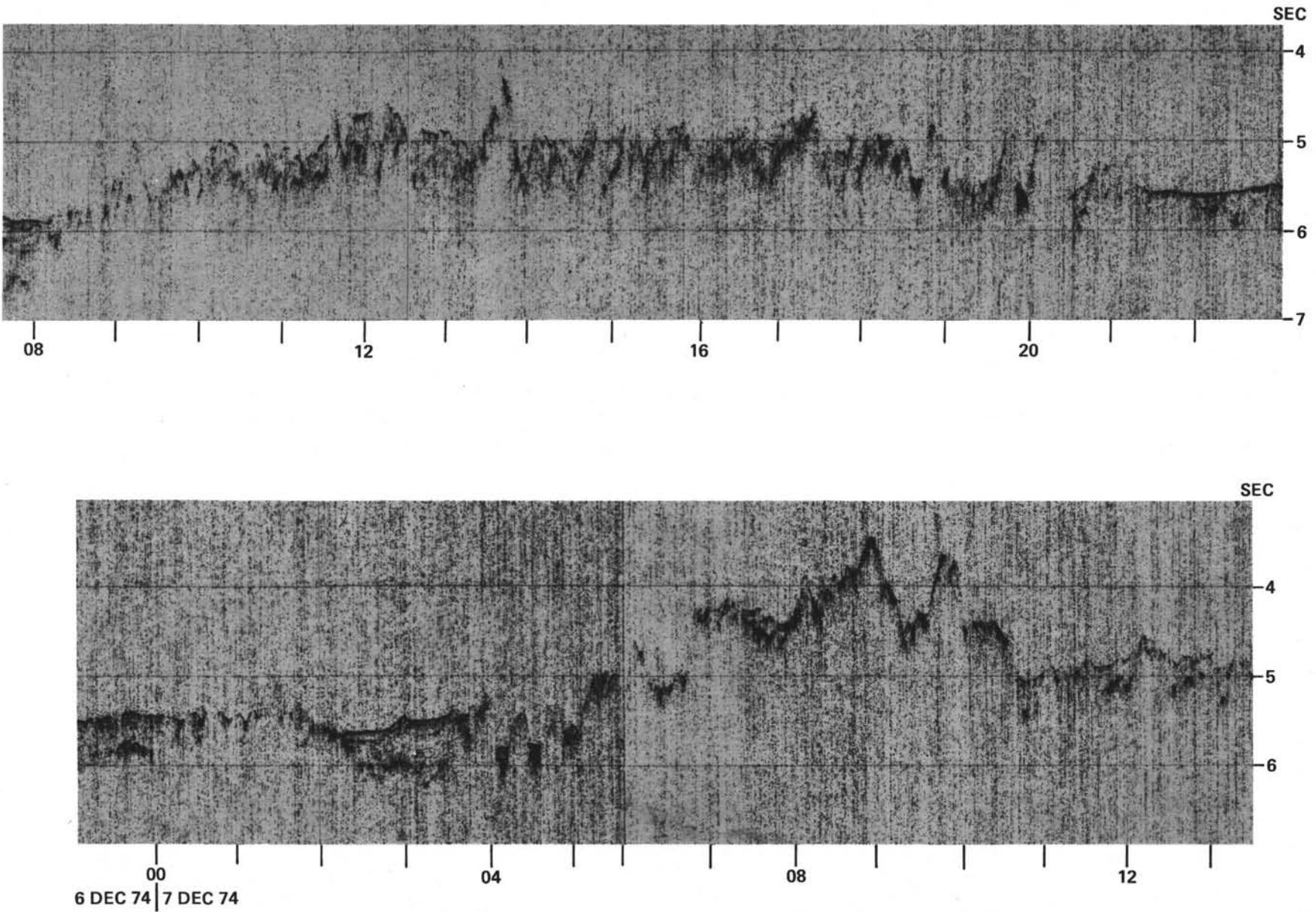
DEPART 0810Z 5 DEC 74



079° | 086°

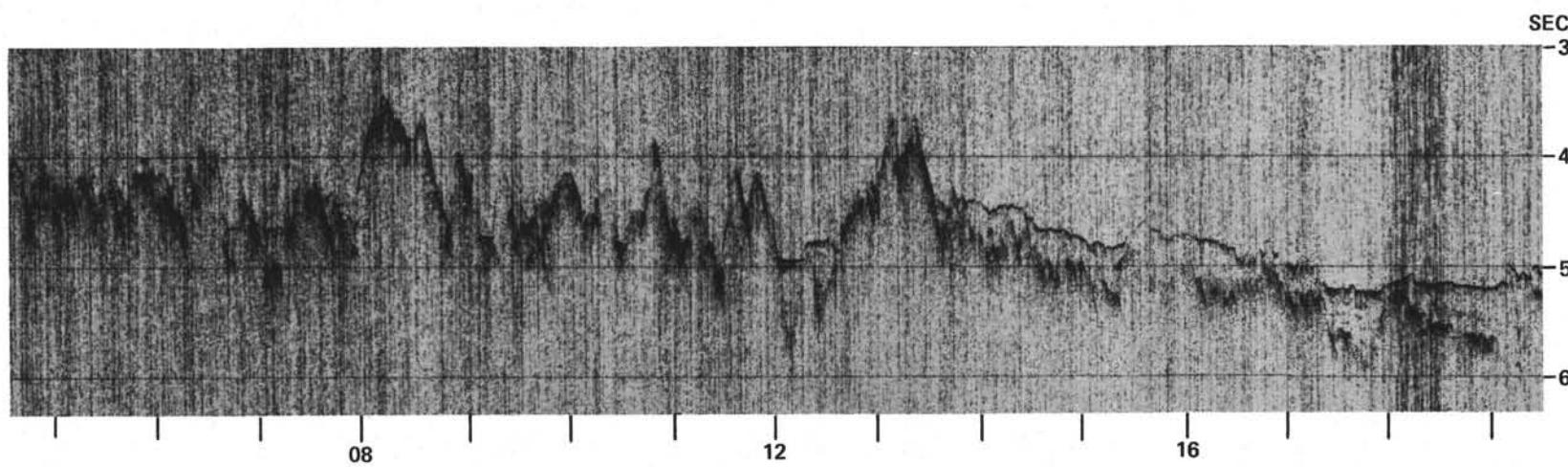
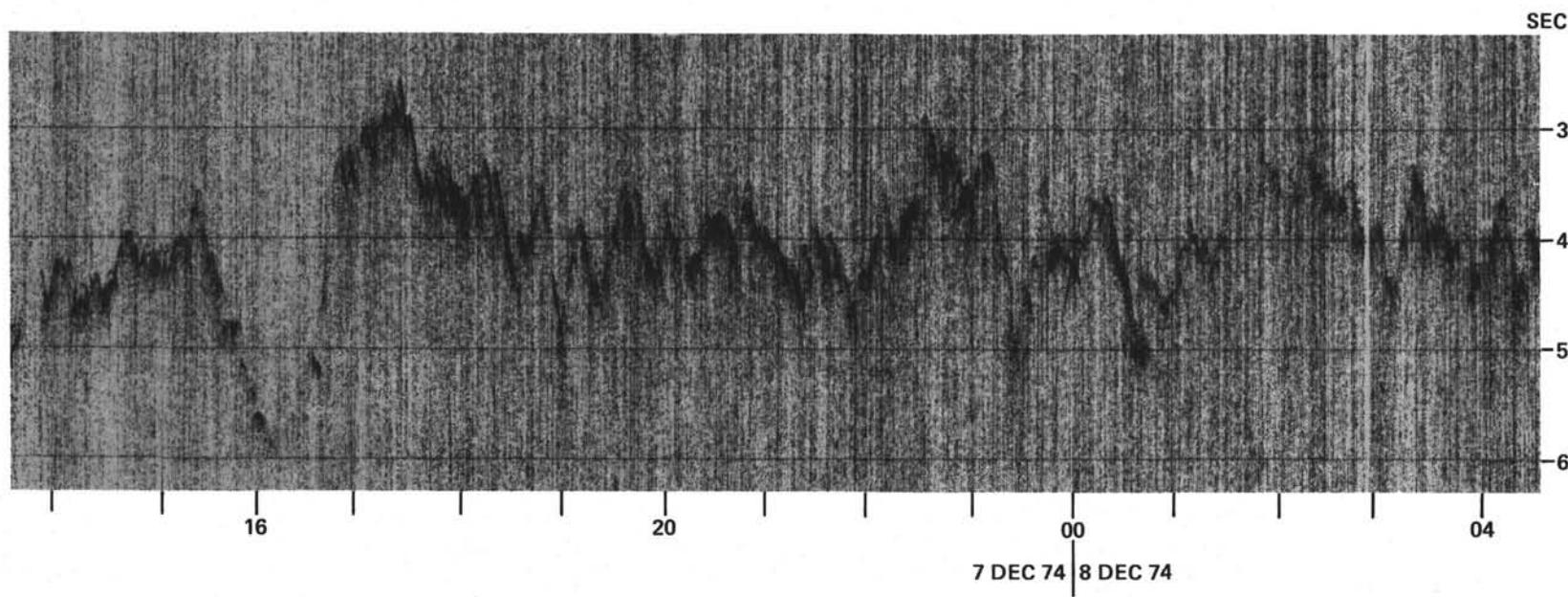


Appendix C. *(Continued).*

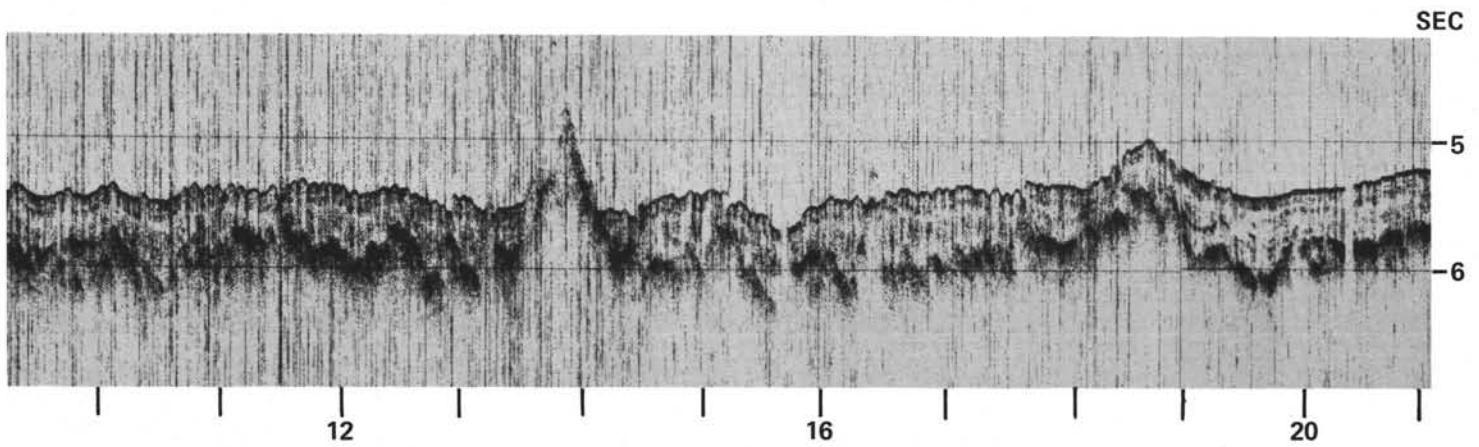
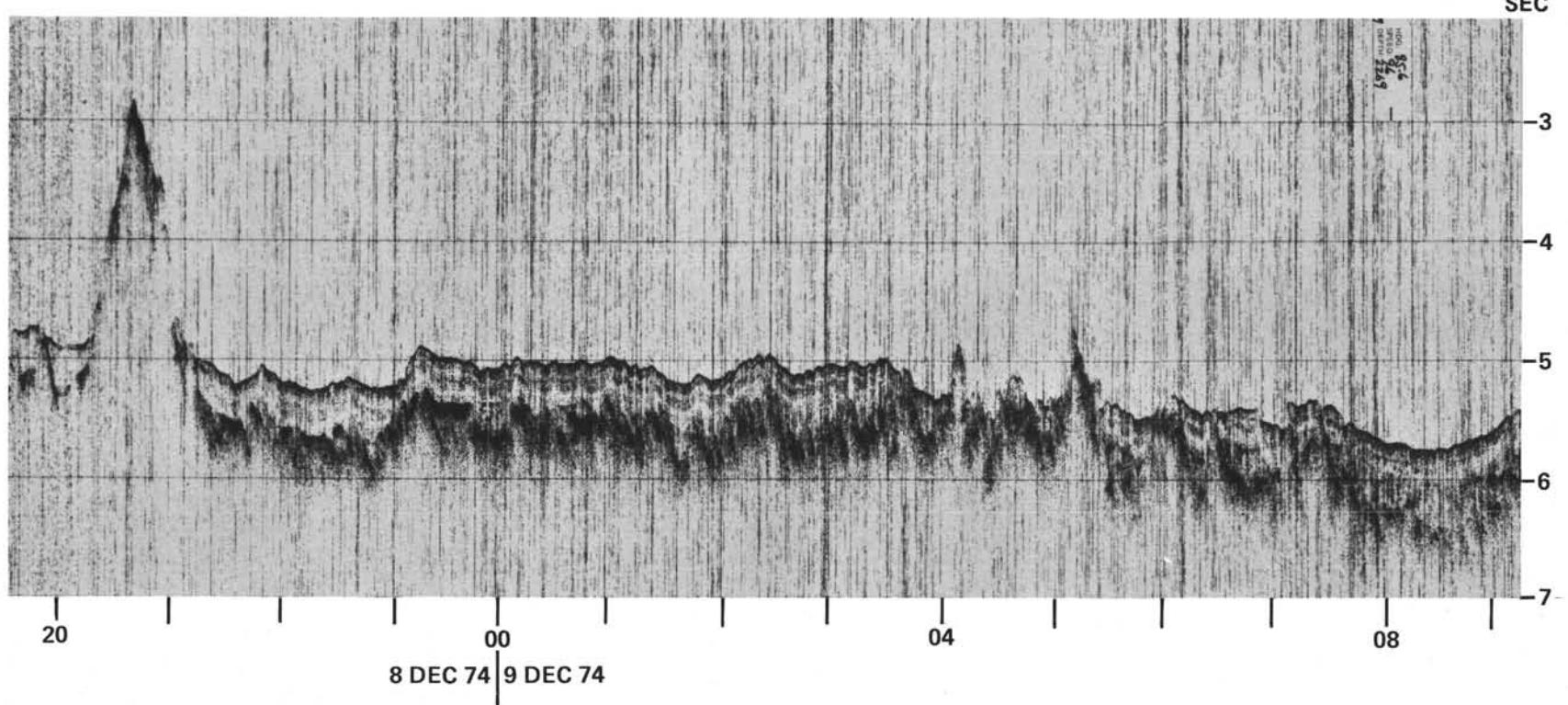


Appendix C. (Continued).

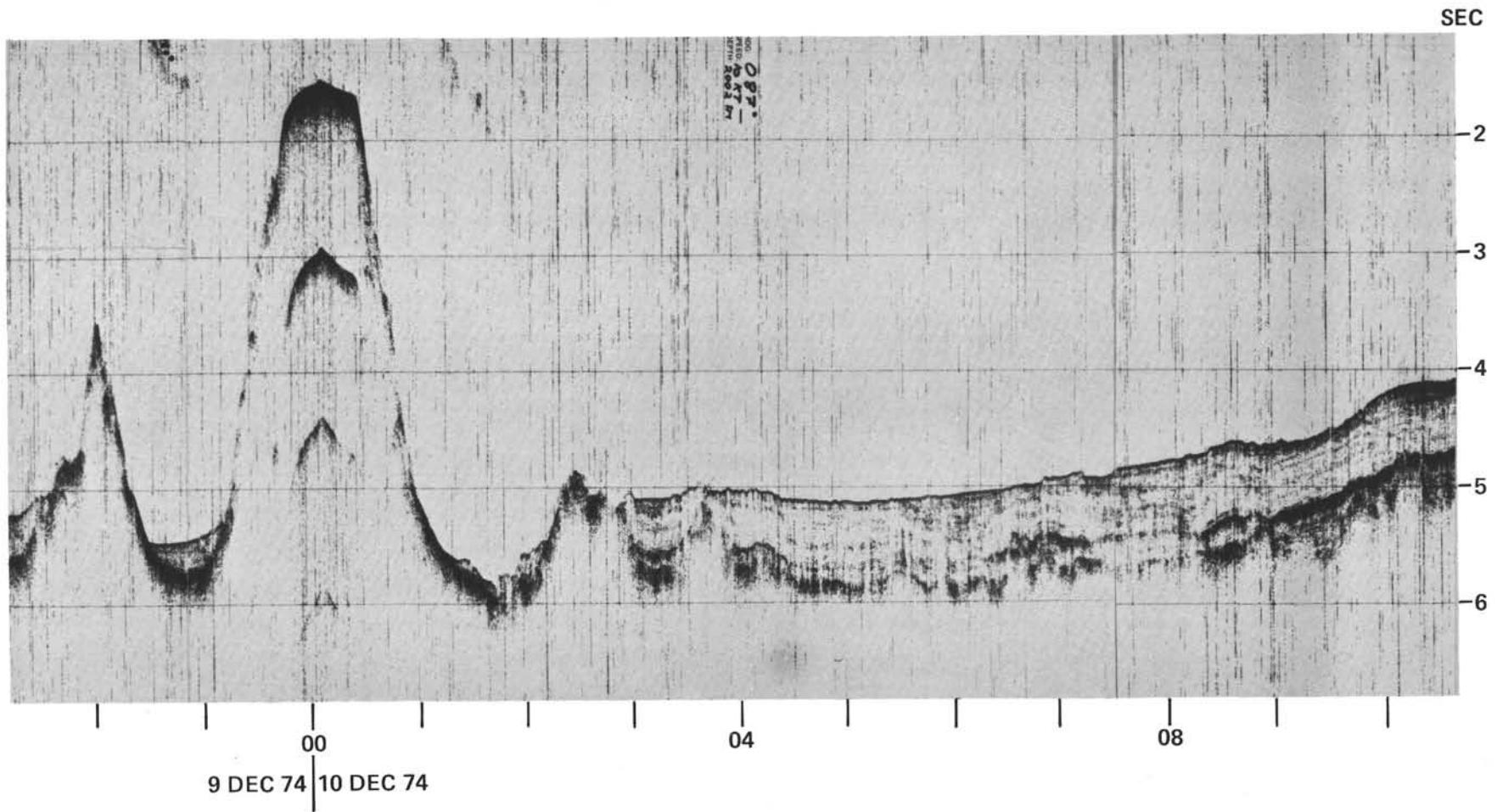
1036



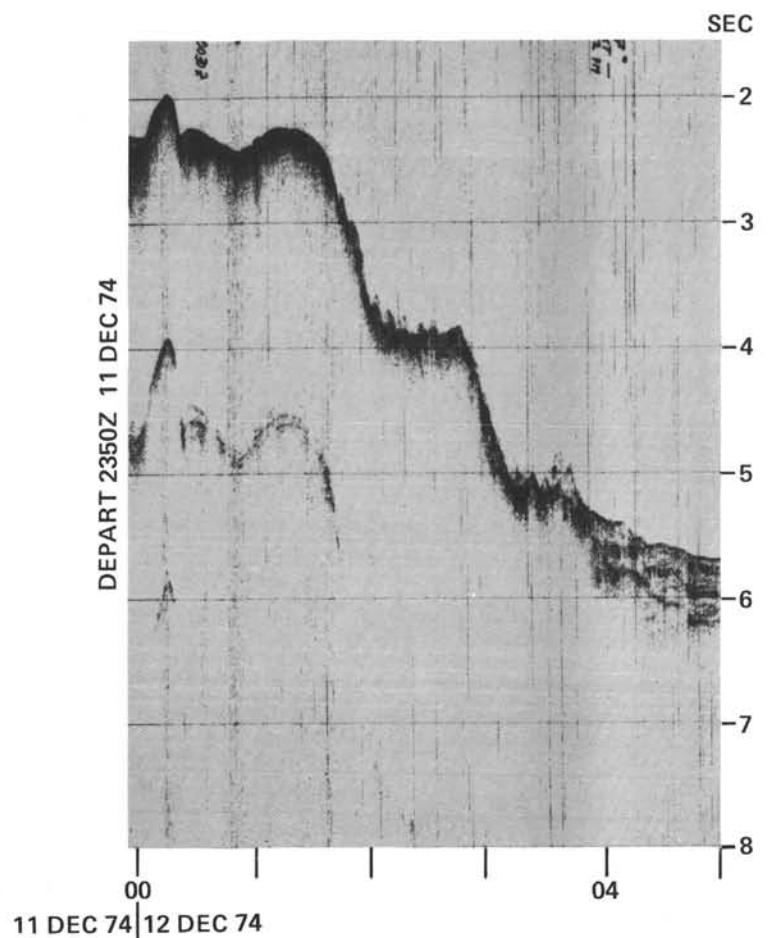
Appendix C. *(Continued).*



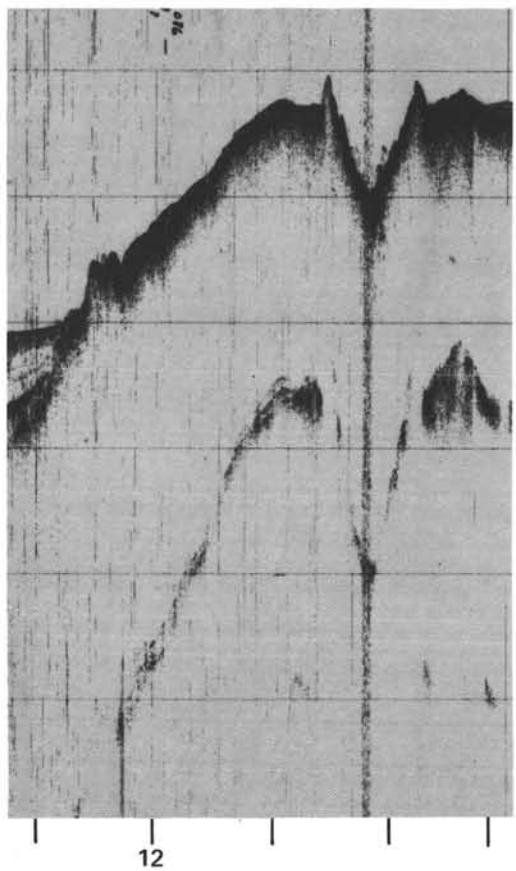
Appendix C. (Continued).



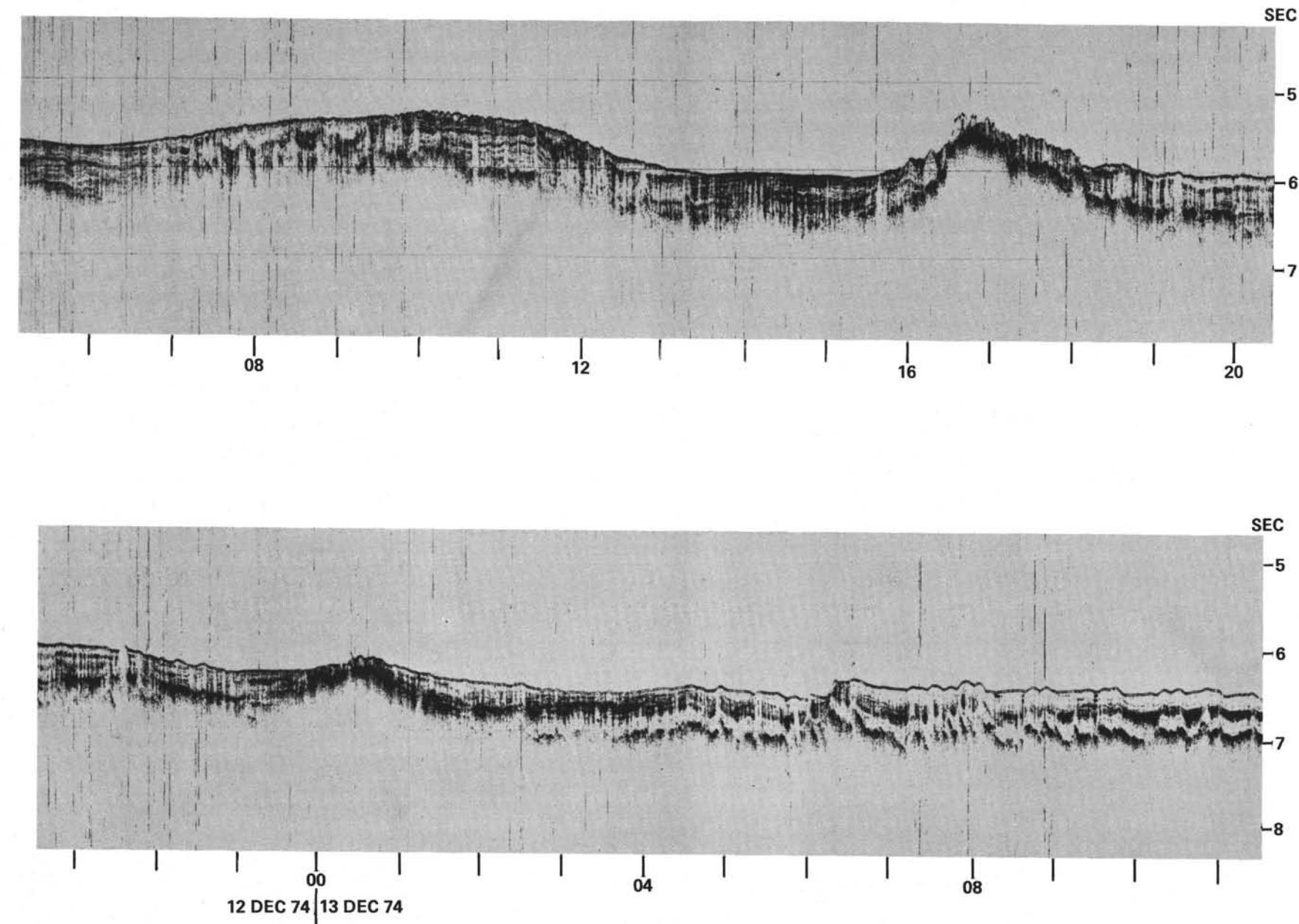
Appendix C. (Continued).



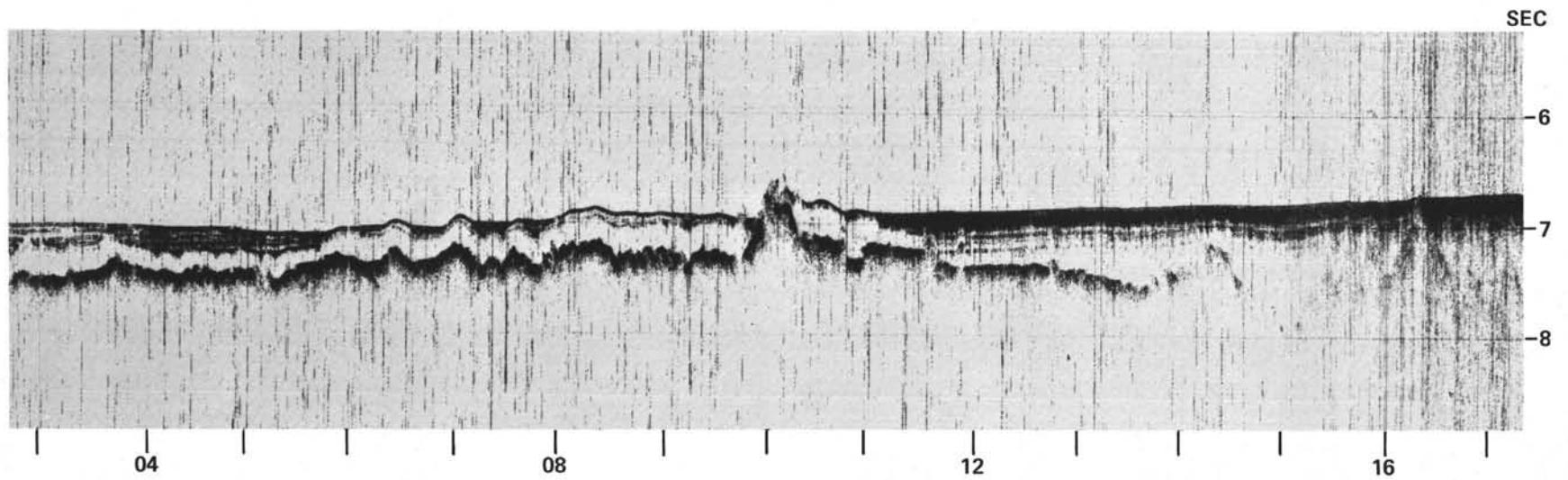
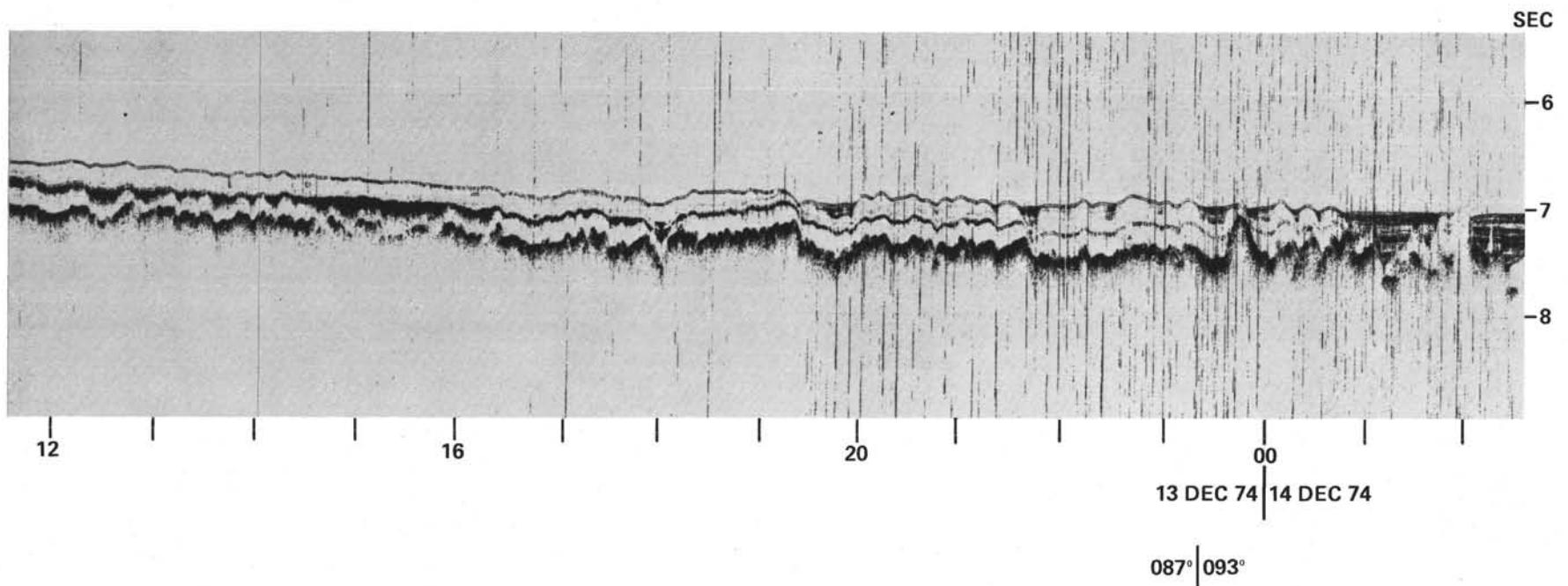
ON SITE 359

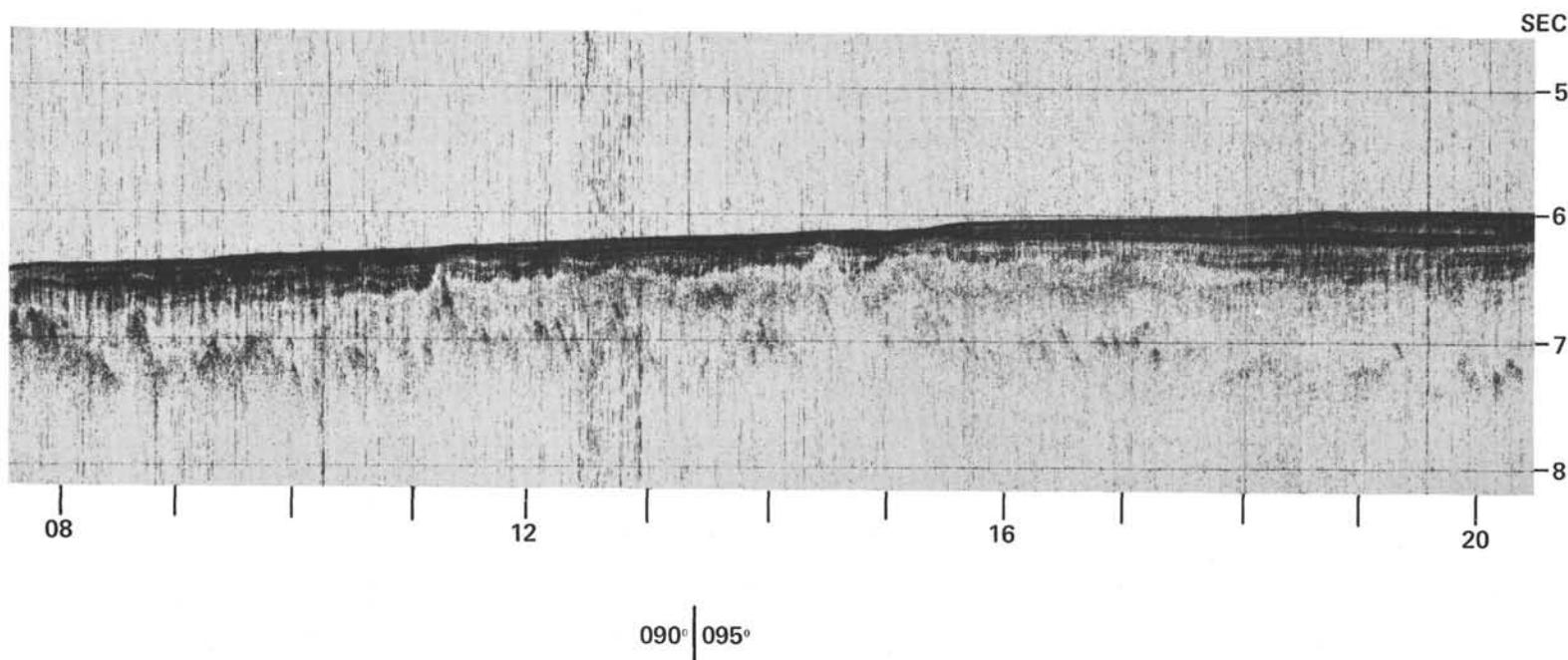
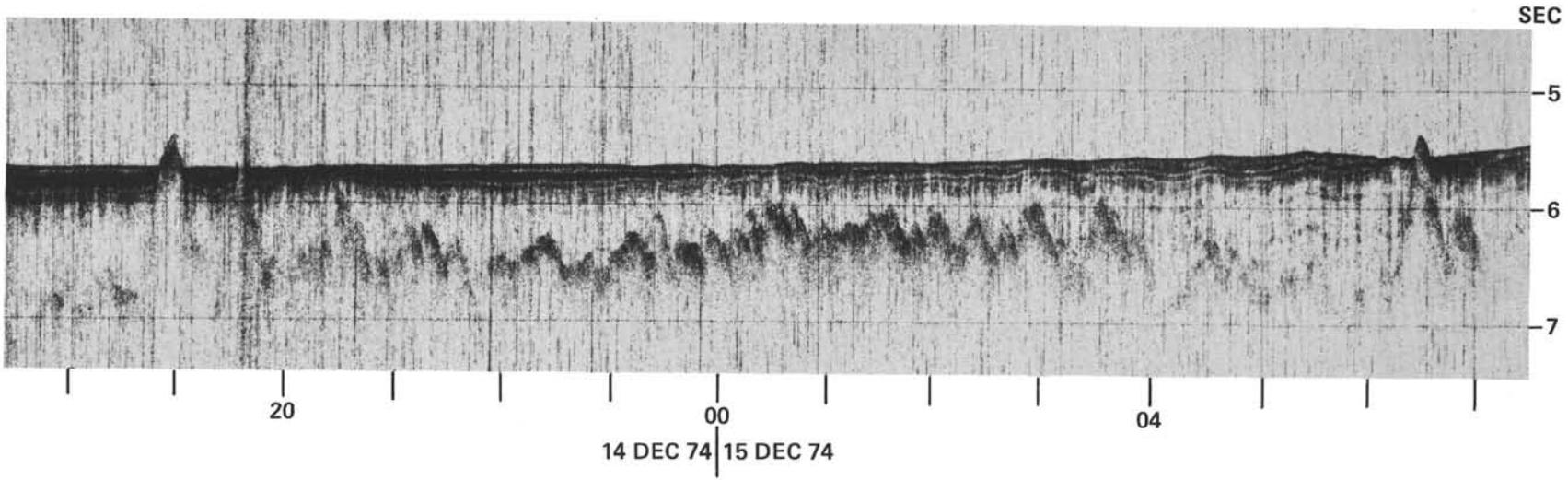
 087° | 267° 240° | 087° 

Appendix C. (Continued).

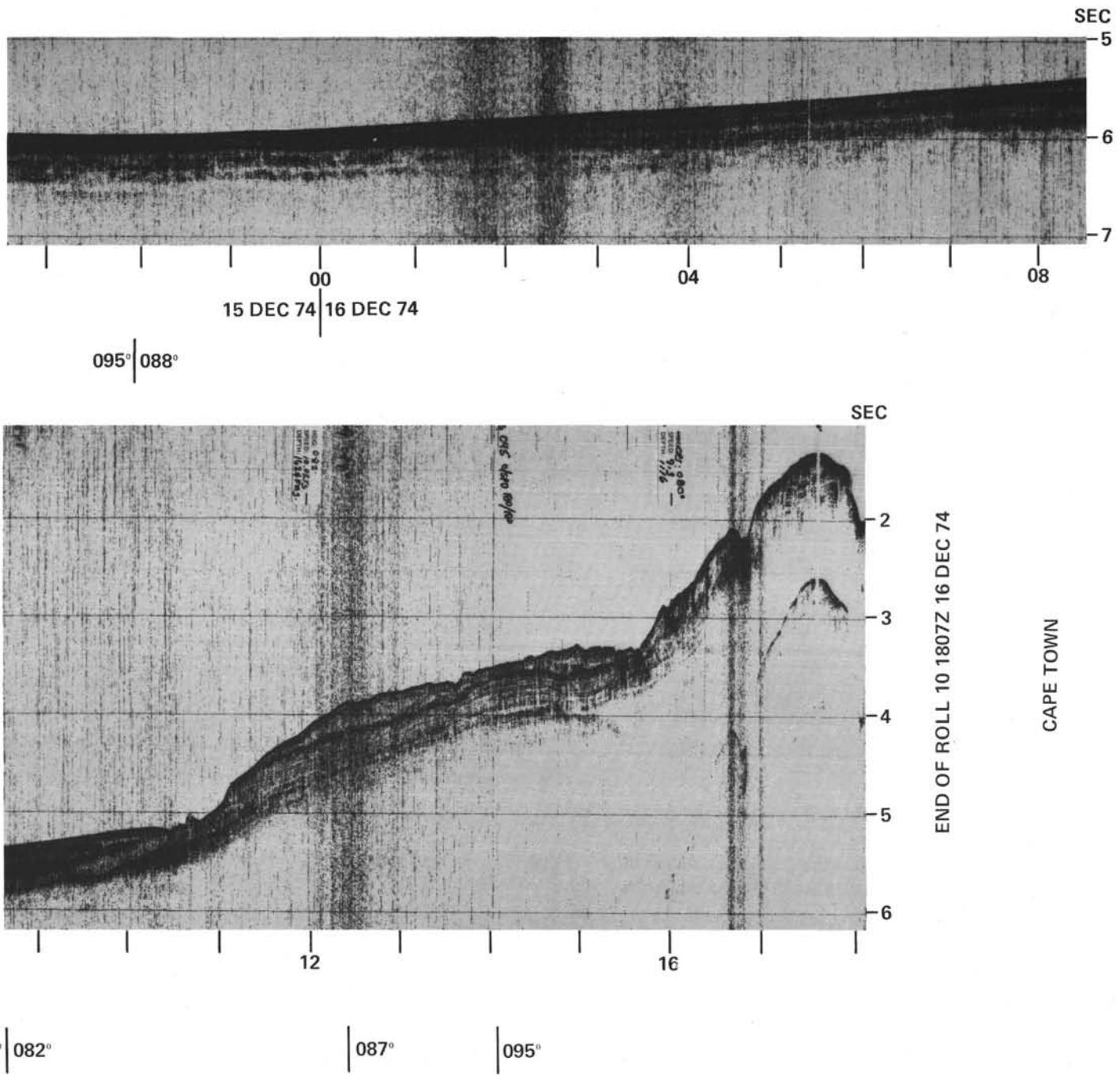


Appendix C. (Continued).





Appendix C. (Continued).



Appendix C. (Continued).