

I. UNDERWAY GEOPHYSICAL DATA: GLOMAR CHALLENGER LEG 43

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INTRODUCTION

Bathymetric, magnetic, and seismic profiler data were acquired during underway operations on *Glomar Challenger* Cruise 43 between Istanbul, Turkey, and Norfolk, Virginia (13 June to 12 August 1975). These data are presented in two groups of profiles, the first containing bathymetric and magnetic data (Figure 1), and the second group showing reproductions of the seismic profiler records (Figure 2). A map in the back cover pocket shows the Leg 43 cruise track annotated with day and hour (Greenwich Mean Time or Z) and with distance along track in hundreds of nautical miles (filled triangles); bathymetric contours on this map are at intervals of 2000 corrected meters from Uchupi (1971) and Defense Mapping Agency (1972).

Leg 43 navigation data are listed in Table 1 together with distance along track (nautical miles), and speed and course *maintained* between navigation points. Regional magnetic-field values computed from the coefficients of Cain et al. (1968) are listed at the right.

The methods of data reduction and display in Figure 1 are described by Talwani (1969). In each profile are listed (from top to bottom) date, time (Z), and crossings of integral latitudes and longitudes. The upper (lighter) profile gives the bathymetric data at a vertical exaggeration of 100:1; the depth scale (*D*) is in nominal fathoms (1/400 sec two-way travel time). The lower, darker profile shows the magnetic anomaly values in gammas (scale *M*); the regional magnetic field has been removed using the IGRF coefficients of Cain et al. (1968). At the bottom of these profiles is listed the distance (linear scale) along the cruise track in nautical miles, and immediately above are ticks showing the position of each navigation point. Selected navigation points are annotated with latitude, longitude, and speed (knots) and course maintained between navigation points. The only navigation points annotated are those where speed changed by more than one knot and/or ship's course varied by more than five degrees.

The seismic reflection profiles (Figure 2) are shown as a function of time, and they run from left to right, top to bottom on the page. The depth scales are annotated in seconds reflection time (1 second = 400 fm nominal). Assuming sediment velocities of 2 km/sec, depths below sea floor in seconds equal sediment thicknesses in kilometers. Along the profiles, time in days and hours (Z) is annotated at the bottom. Course and speed made good at any point along these profiles can be found in Table 1. Distance along track in hundreds of nautical miles, drill site locations, and physiographic

information are annotated in the upper part of the profiles. The seismic profiling system used to obtain these records consisted of 10 in.³ and 40 in.³ Bolt airguns fired simultaneously, a Scripps-designed hydrophone array, Bolt amplifiers, two bandpass filters, and two EDO dry-paper recorders. Recordings normally were made at a 5-sec sweep and a 10-sec sweep; only the better of these records is reproduced in Figure 2. Filter settings vary, and they are annotated on the records (for example, F 40/160 = 40-160 Hz bandpass).

The 12-kHz profiles were recorded on a Giffi precision depth recorder and were used to read water depths. These profiles rarely showed any sub-bottom penetration. On Leg 43, 3.5 kHz profiles were not recorded.

NARRATIVE

The *Glomar Challenger* profile departing from Istanbul passes through the Sea of Marmara; only echo-sounding data were recorded as the ship proceeded through the Dardanelles. The first thick sediments recorded by the seismic profiler are in the Cretan Basin, where more than 1 second (nominal 1 km) of weakly deformed sediments is present. Deformation becomes much stronger and faulting is observed in the Hellenic Arc and Trench farther west.

West of the Hellenic Trench the Mediterranean Ridge and the Messina Cone both exhibit very irregular sea floor with acoustically nonlaminated or weakly laminated sediments overlying a strong smooth reflector. This horizon is "Reflector *M*" which marks the top of the upper Miocene evaporite sequence in the Mediterranean (Ryan, Hsü, et al., 1973). The irregular sea floor has been interpreted as "karst topography" resulting from solution of the underlying salt (Hsü et al., 1973).

The *Challenger* profile continues through the Straits of Sicily where irregular sub-bottom reflectors commonly are covered by ponded stratified sediments. Profiles recorded over the Balearic Abyssal Plain show that the acoustically laminated turbidites are underlain by a weakly laminated interval and by Reflector *M*. Salt diapirism is apparent in several locations beneath the abyssal plain. Reflector *M* continues into the Alboran Basin beneath a nonlaminated acoustic interval; finely laminated sediments overlying these sediments continue upward to the sea floor. Only bathymetric data were recorded as the *Challenger* passed through the Straits of Gibraltar.

In the eastern North Atlantic the *Challenger* profile cuts across the northeast corner of the Horseshoe Abyssal Plain before crossing Gorringe and Josephine

Banks. A shallow, nearly flat top is apparent on Josephine Bank. Thin unconsolidated sediments which are acoustically nonlaminated to weakly laminated cover most of the banks as well as the lower flanks of the Azores Rise to the west.

Sedimentary reflectors become much stronger along the profile near the Azores, showing the influx of coarse clastic debris from the islands. The western Azores Plateau exhibits a relatively smooth acoustic basement with overlying, moderately thick sediments ($\sim 800\text{m}$). In sharp contrast, the crest of the Mid-Atlantic Ridge is rugged and sediment free except for local ponding of carbonate oozes. On the west flank of the Mid-Atlantic Ridge, the *Challenger* profile cuts into the Pico Fracture Zone at a very shallow angle and follows the trend of the fracture zone west to the Sohm Abyssal Plain. Because the *Challenger* profile crosses a variety of anomalous features in passing over the Mid-Atlantic Ridge, it is very difficult to identify any specific magnetic anomalies along the track.

The sediments of the Sohm Abyssal Plain slope westward from the Mid-Atlantic Ridge flank to about 49°W where *Challenger* changed course toward the southwest, headed for Nashville Seamount. The general southward slope of the central Sohm Abyssal Plain is then apparent in the profile approaching Nashville Seamount and in the profile between Sites 383 and 382. The high reflectivity of the abyssal plain sediments generally prevents recognition and identification of individual deep reflectors. Curiously, reflectors in the turbidites seem to be better resolved in the central part of the abyssal plain, near Site 383.

North and northeast of Nashville Seamount (Site 382) sizable deposits of acoustically nonlaminated sediments crop out or are locally capped by the laminated turbidites. The nonlaminated sediments are the lateral seismic equivalent of Miocene and Pliocene hemipelagic clays cored on the flank of Nashville Seamount (Site 382).

As *Challenger* departed Site 382, two sonobuoy runs were attempted to determine the velocity structure of sediments and basement near the site. Neither sonobuoy functioned correctly.

The magnetic profile between Site 382 and Site 383 (Figure 1) gives some indication of the amplitude of the "J Anomaly," which is locally greater than 1000 gammas. The ship's track between Sites 383 and 384, however, parallels the magnetic trends and gives no indication of the nature of the J Anomaly. Similarly, the track between Sites 384 and 385 is subparallel to the magnetic trends, and specific anomalies cannot be identified.

The profile approaching Site 385 goes south across Manning Seamount before crossing and recrossing Vogel Seamount. The profiler record between Manning and Vogel shows a number of moderately well defined reflectors below the Sohm turbidites, including Horizon A^C chert (cored at Site 385) and possibly Horizon β . Vogel Seamount is flanked on the east and north by drifts of acoustically nonlaminated sediments. Site 385 drilling shows this is substantially Miocene hemipelagic

clay, like that at Site 382. Both Manning and Vogel seamounts have very high amplitude magnetic anomalies, unlike the small anomaly at Nashville Seamount.

Challenger's departure from Site 385 recrossed the flank of Vogel Seamount and then crossed a remarkably well developed set of abyssal sediment waves on the northern Bermuda Rise. These waves probably are formed by deposition of suspended sediment from the base of the westward flowing Gulf Stream Gyre (E. P. Laine, personal communication, 1976).

Near Bermuda, reflecting Horizon A^V is observed as a seaward extension of the acoustically opaque Bermuda Pedestal. The reflector was cored at Site 386 and consisted of upper Eocene to upper Oligocene volcanoclastic turbidites that record weathering of the Bermuda volcano.

While we were drilling at Site 386, the satellite teletype suffered an irreparable mechanical failure, so that all subsequent navigation (including the position of Site 387) unfortunately is based on only celestial fixes, marginal quality Loran C fixes, and some radar fixes near Bermuda.

A single sonobuoy recording was attempted as *Challenger* crossed Site 386 enroute to Site 387, but the recording was unsuccessful.

The profile going westward from Site 386 to Site 387 shows that Horizon A^V gradually fades out away from Bermuda, and deeper reflectors become better defined. Horizon β first appears in the seismic profile just east of Site 387, but it is much easier to observe further west; at Site 387, Horizon β correlates with the top of Neocomian limestones underlying black clays. Horizon A^* is a generally well-defined reflector near Site 387, appearing in the upper part of an acoustically nonlaminated sequence of sediments overlying Horizon β . A post-site survey around site 387 shows highly reflective turbidites which flooded the western Bermuda Rise and covered Horizon A^* during late Paleocene through middle Eocene time. Horizon A^C (chert within the turbidites) and Horizon A^T (top of the siliceous turbidites) cap this sequence.

When drilling was terminated at Site 387 on 6 August 1975, the main swivel was found to be severely damaged, and because there were no spare parts on board, drilling had to be terminated for the duration of the leg. With 6 days remaining before the *Challenger*'s scheduled port call in Norfolk, Virginia, we used part of the time for a detailed survey around Site 387 and for obtaining additional tie-lines on the southern Bermuda Rise between Sites 386 and 387.

During the survey around Site 387, three sonobuoy recordings were attempted as the ship passed over the site. The first of these (1219 Z, 7 August) failed to record direct water-wave and sub-bottom information for a long enough period to be useful. The second sonobuoy (1800 Z, 7 August) failed to transmit, but a third sonobuoy (0120 Z, 8 August) was successful. Analysis of this recording indicated an average velocity of $2.03 \pm 0.15 \text{ km/sec}$ for the sediment column, compared to 1.86 km/sec derived from drillhole correlations.

The track proceeding across Site 387 to Norfolk at the end of the survey period (9-10 August) clearly recorded the older anomalies in the *M* Series (Keathley sequence) and confirmed the position of Site 387 between anomalies *M*-15 and *M*-16. Acquisition of underway data was terminated above the top of the continental slope at 2200 hr (GMT), 11 August 1975, in order to prepare for arrival in Norfolk, Virginia, on the morning of 12 August.

ACKNOWLEDGMENTS

I thank T. Gustafson and his shipboard technical staff for their excellent efforts in maintaining the geophysical gear and in routine data collection. T. Aitken of Lamont-Doherty Geological Observatory processed the underway data into the display format of Figure 1.

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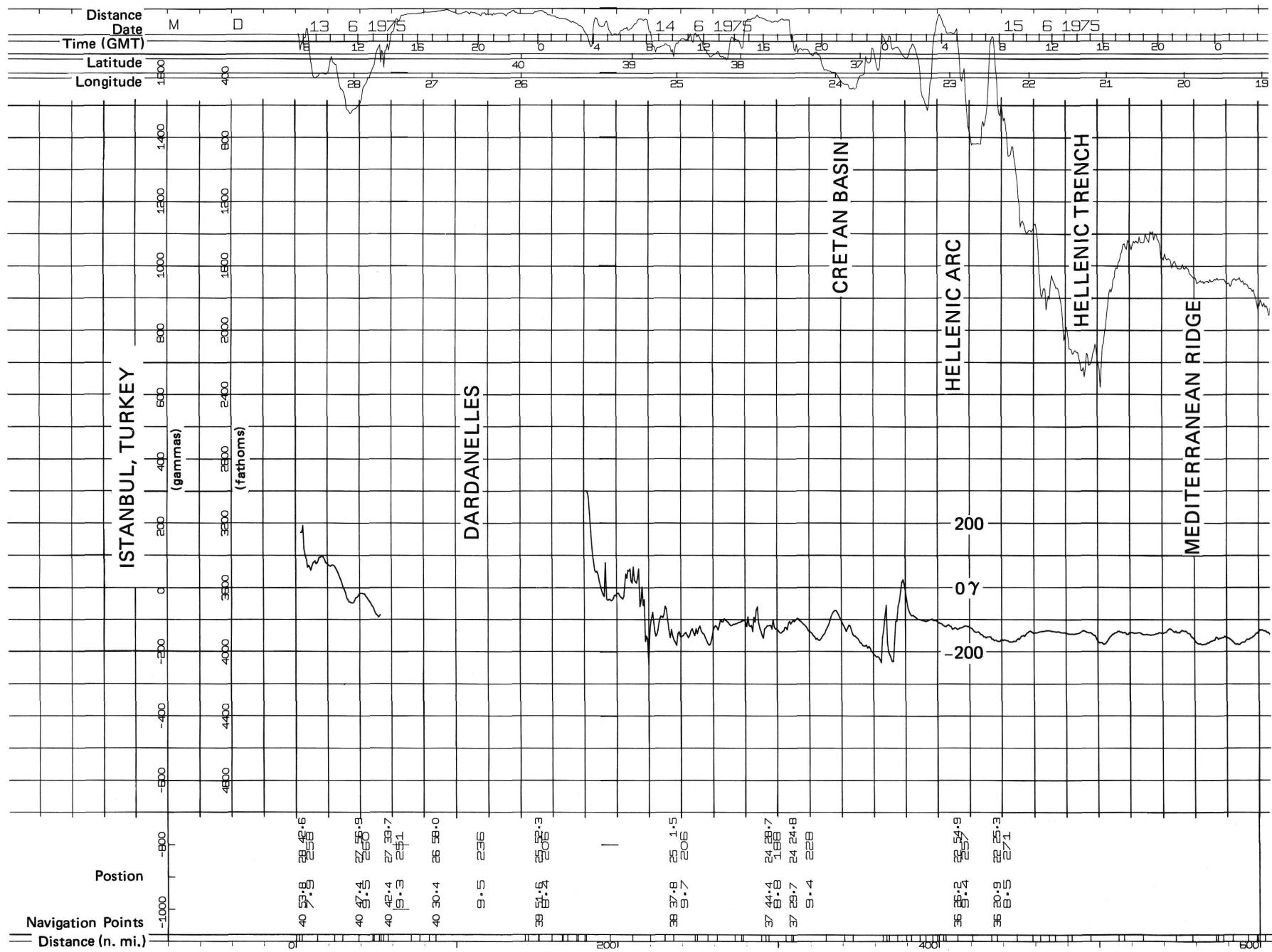


Figure 1. Bathymetric and magnetic profile along Leg 43 track (see text for explanation).

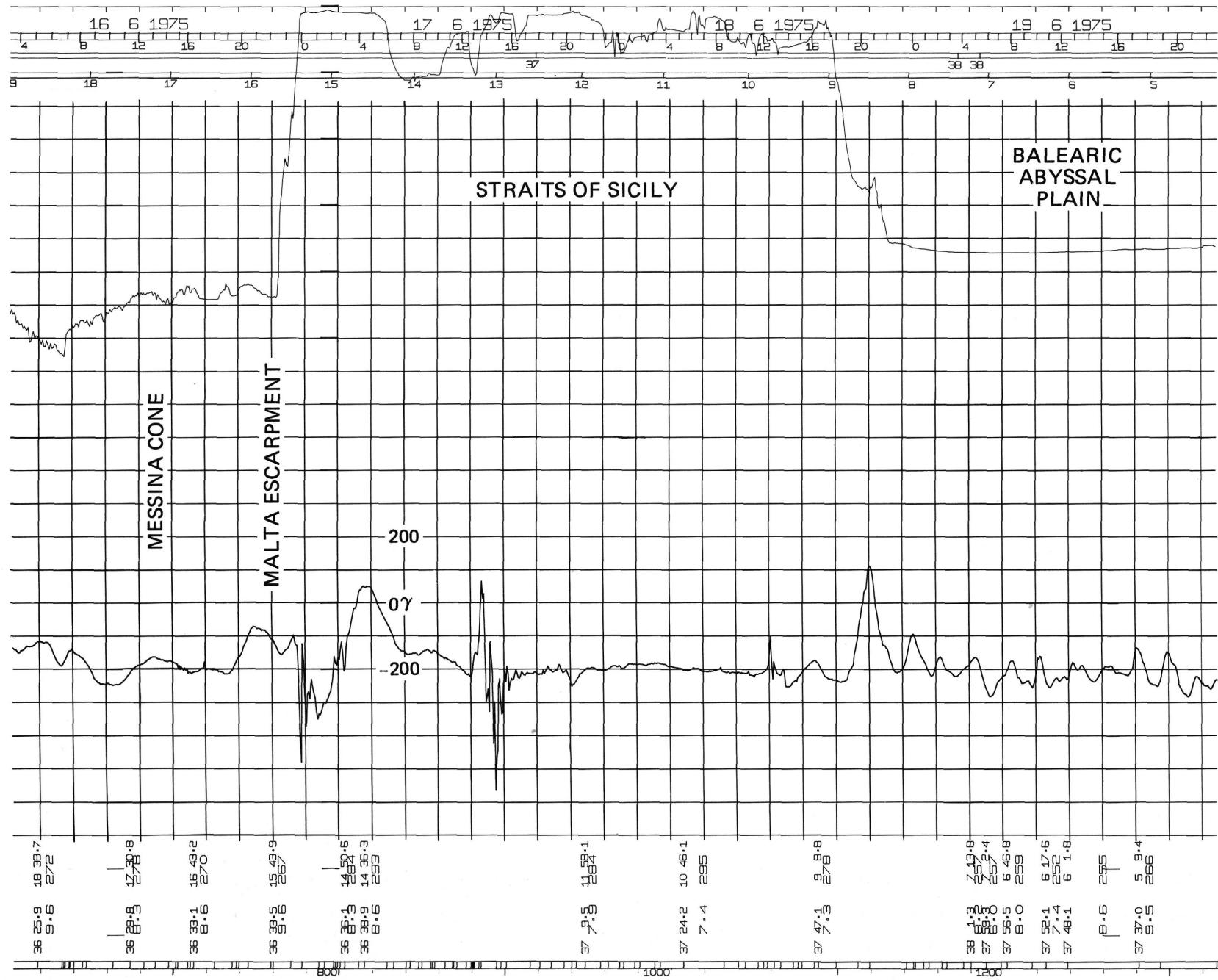


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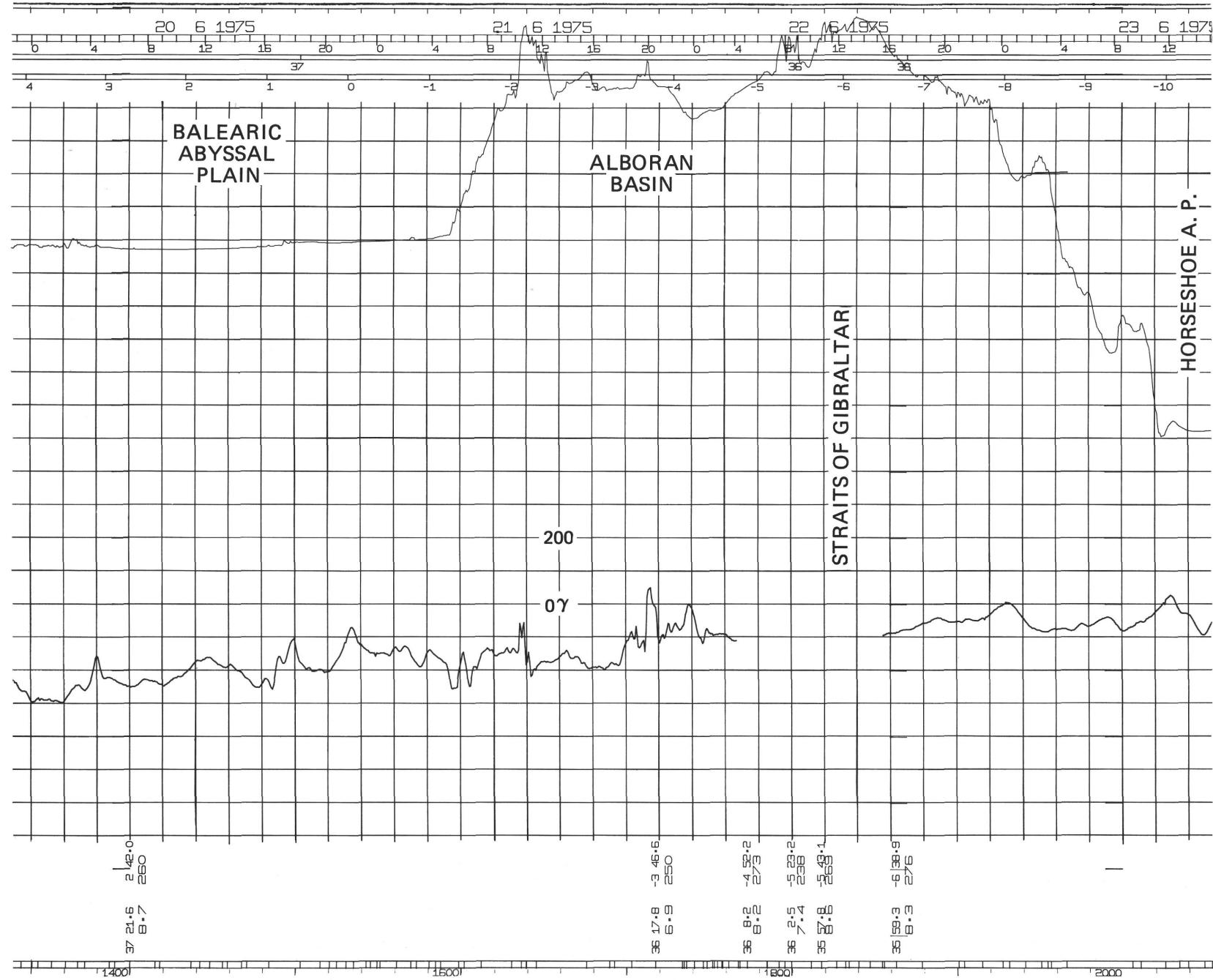


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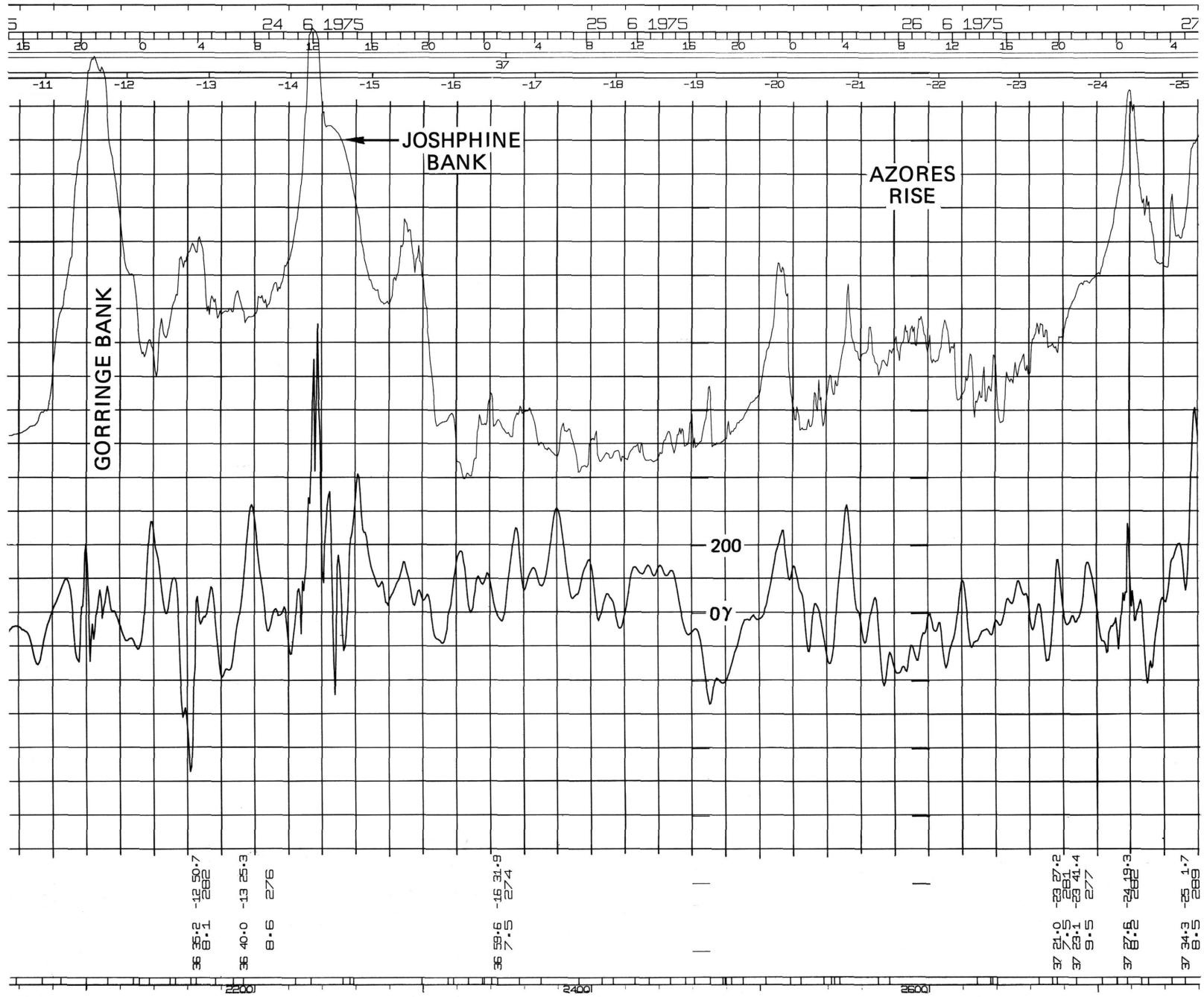


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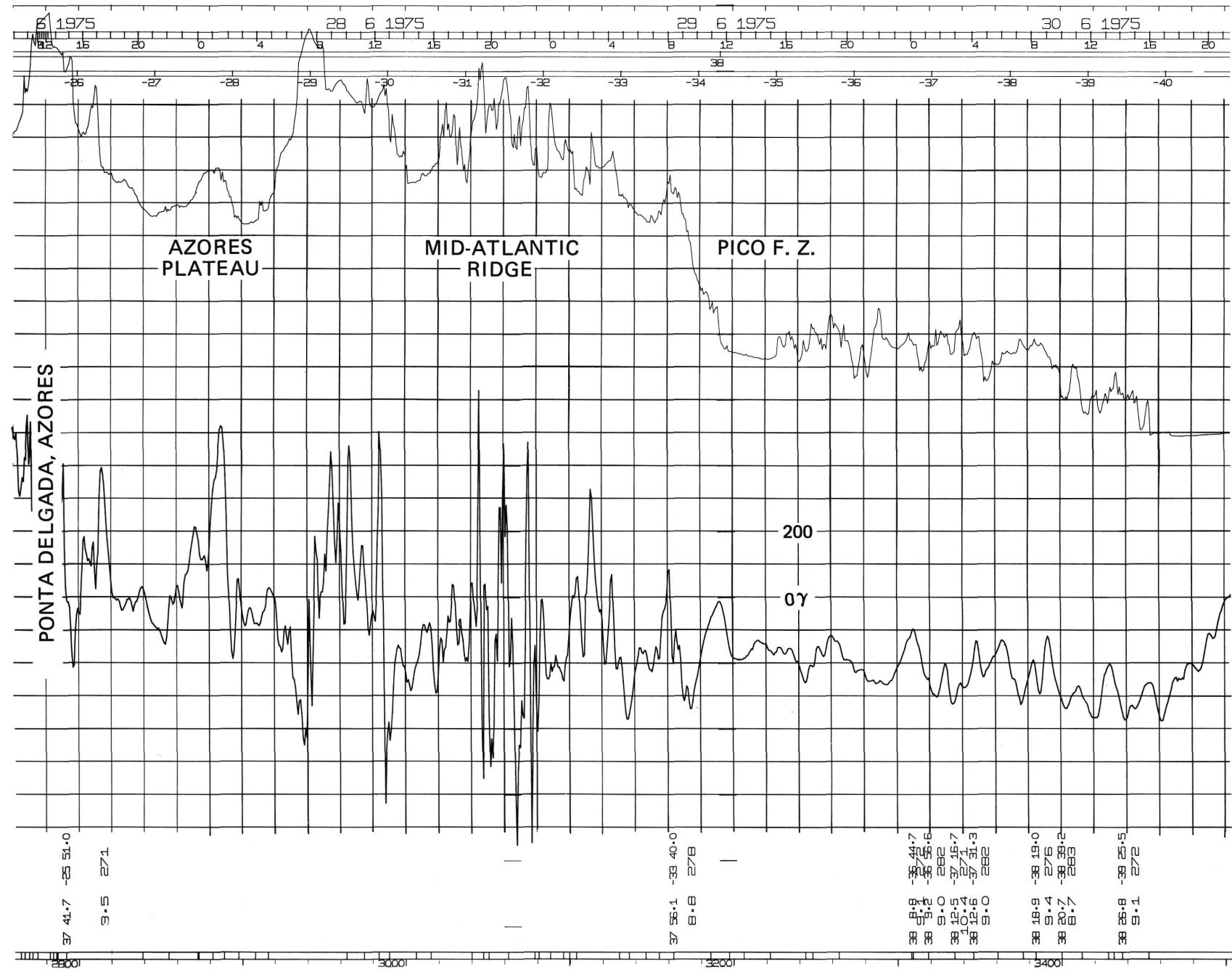


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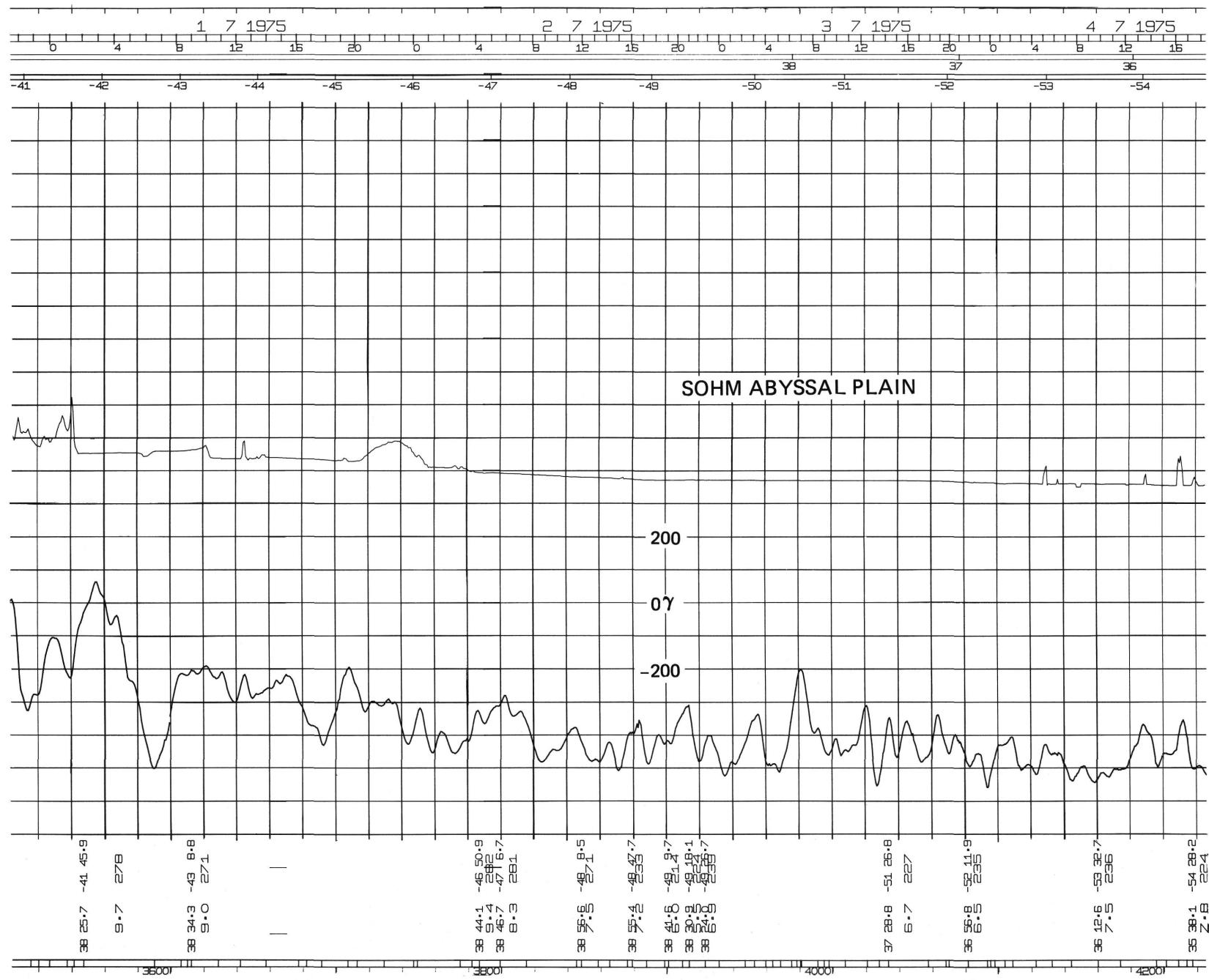


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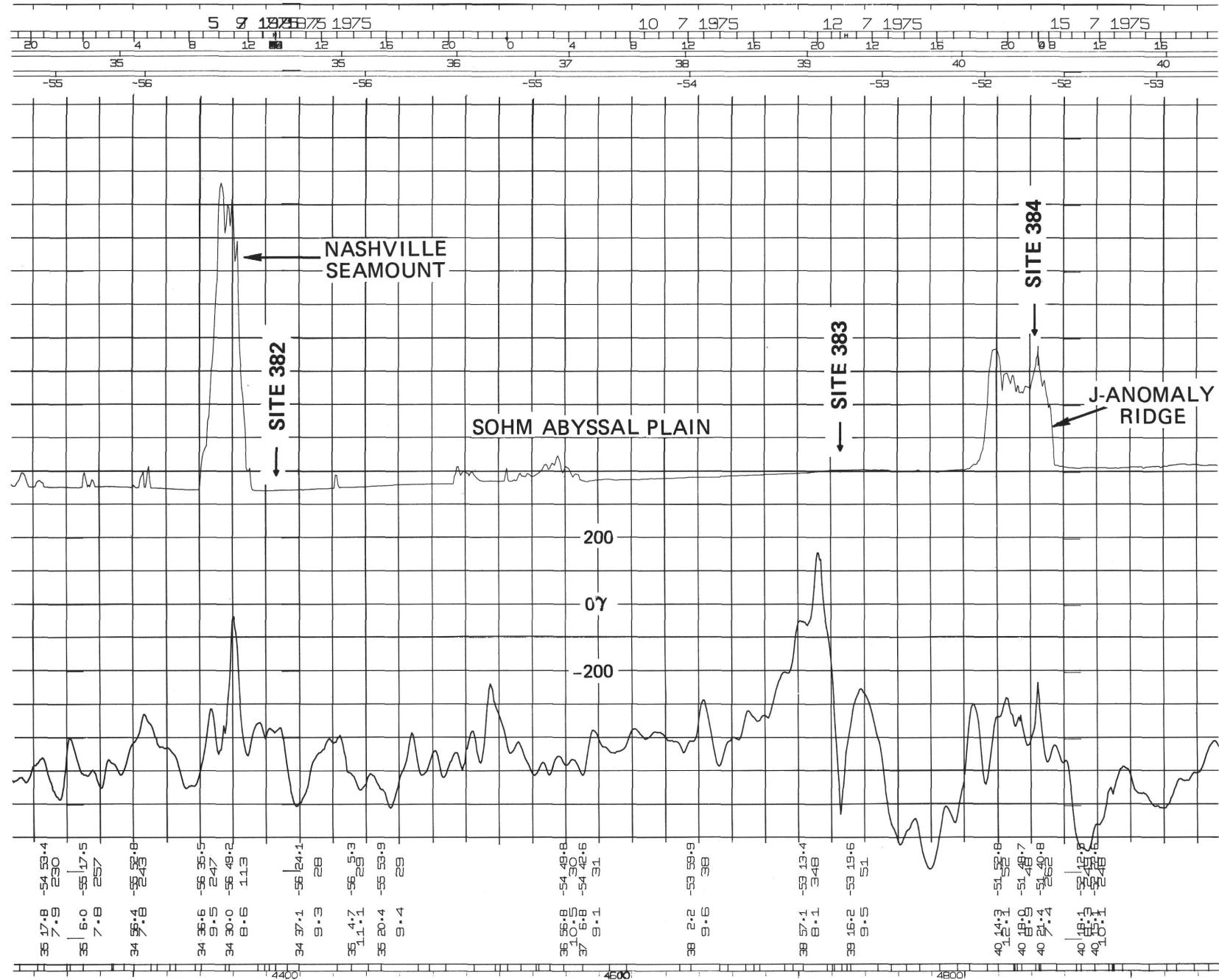


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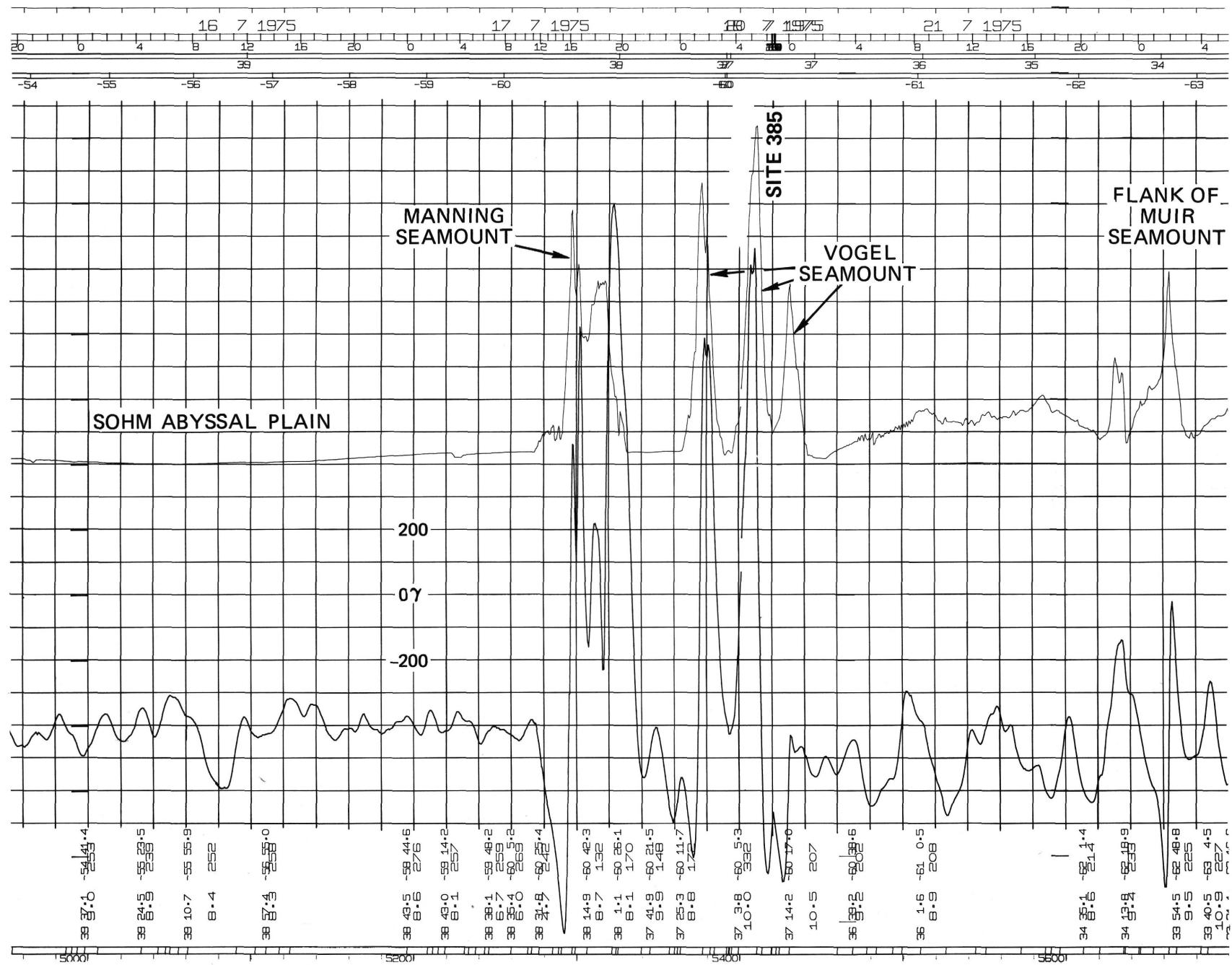


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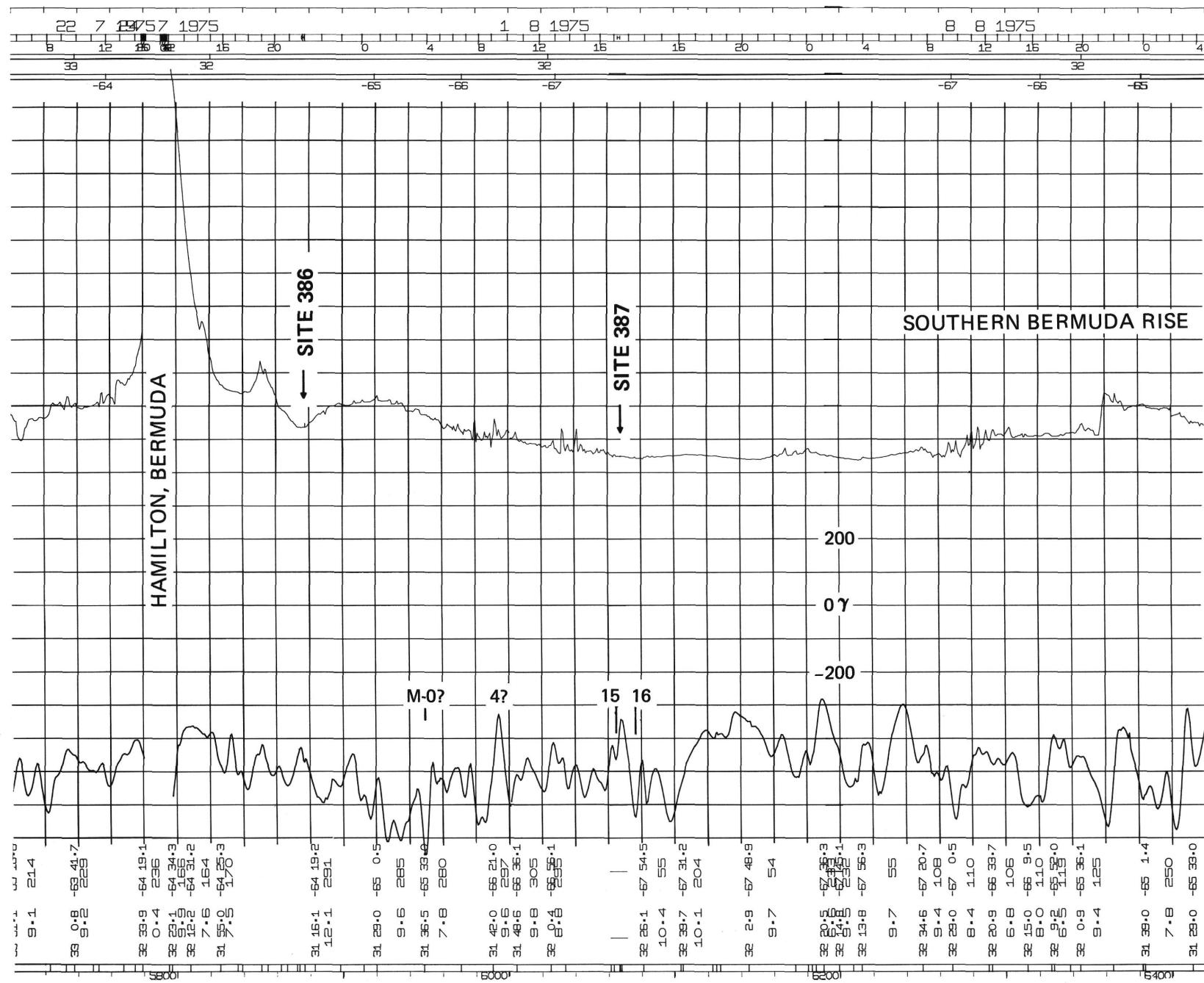


Figure 1. (Continued).

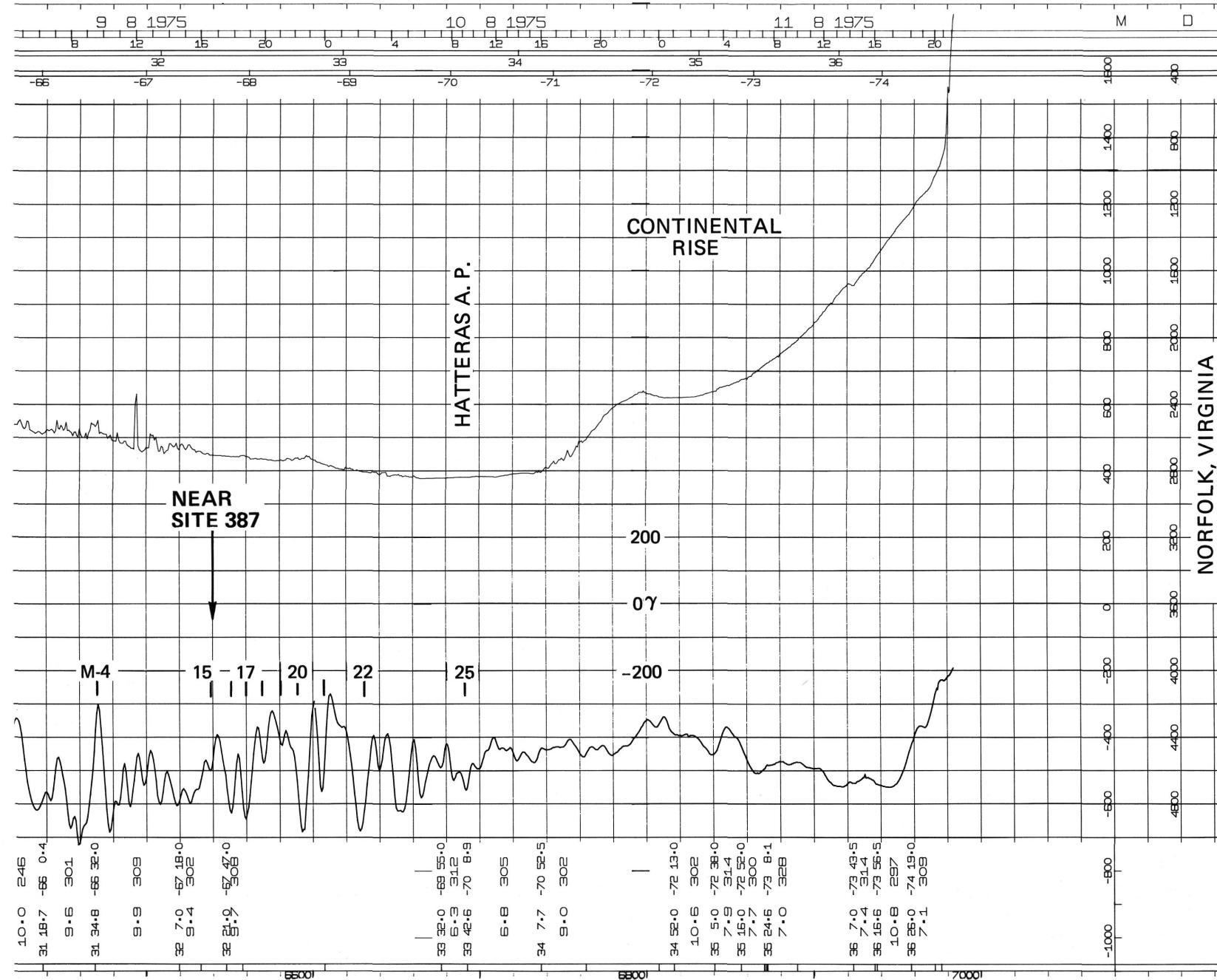


Figure 1. (Continued).

TABLE 1
**Underway Data for *Glomar Challenger* Leg 43: Navigation Points, Distance Along Track, Course and Speed
 Maintained Between Navigation Points, and Regional Magnetic Field Values**

Day	Mon	Year	Time ^a	Latitude	Longitude	Distance (n. mi.)	Speed (kt)	Course	Regional Mag
13	6	1975	716	40° 54.8'	28° 47.1'	0.0	7.7	254	46493
13	6	1975	730	40° 54.3'	28° 44.8'	1.8	5.2	253	46486
13	6	1975	750	40° 53.8'	28° 42.6'	3.5	7.9	258	46455
13	6	1975	902	40° 51.9'	28° 30.3'	13.0	8.8	261	46421
13	6	1975	1014	40° 50.2'	28° 16.5'	23.6	8.8	262	46406
13	6	1975	1048	40° 49.5'	28° 10.0'	28.6	8.4	258	46372
13	6	1975	1200	40° 47.4'	27° 56.9'	38.7	9.5	260	46345
13	6	1975	1255	40° 45.9'	27° 45.6'	47.4	9.8	248	46342
13	6	1975	1300	40° 45.6'	27° 44.6'	48.2	10.2	246	46328
13	6	1975	1319	40° 44.3'	27° 40.7'	51.4	10.6	248	46324
13	6	1975	1325	40° 43.9'	27° 39.4'	52.5	7.5	248	46317
13	6	1975	1338	40° 43.3'	27° 37.4'	54.1	8.8	252	46306
13	6	1975	1358	40° 42.4'	27° 33.7'	57.1	9.3	251	46250
13	6	1975	1531	40° 37.8'	27° 15.6'	71.6	9.3	247	46228
13	6	1975	1605	40° 35.7'	27° 9.2'	76.9	9.3	236	46199
13	6	1975	1643	40° 32.4'	27° 2.8'	82.7	9.2	241	46181
13	6	1975	1710	40° 30.4'	26° 58.0'	86.9	9.5	236	45910
13	6	1975	2300	39° 59.0'	25° 58.1'	142.4	9.8	203	45898
13	6	1975	2312	39° 57.2'	25° 57.1'	144.3	8.3	214	45861
13	6	1975	2358	39° 51.9'	25° 52.5'	150.7	10.0	207	45859
14	6	1975	000	39° 51.6'	25° 52.3'	151.0	8.4	206	45811
14	6	1975	058	39° 44.3'	25° 47.7'	159.1	9.7	212	45773
14	6	1975	138	39° 38.8'	25° 43.3'	165.6	9.3	210	45771
14	6	1975	141	39° 38.4'	25° 43.0'	166.0	9.2	221	45754
14	6	1975	200	39° 36.2'	25° 40.5'	169.0	8.9	206	45721
14	6	1975	238	39° 31.1'	25° 37.3'	174.6	9.3	210	45715
14	6	1975	244	39° 30.3'	25° 36.7'	175.6	8.9	213	45691
14	6	1975	312	39° 26.8'	25° 33.8'	179.7	3.6	214	45686
14	6	1975	326	39° 26.1'	25° 33.2'	180.6	8.9	207	45598
14	6	1975	506	39° 13.0'	25° 24.4'	195.3	7.9	206	45514
14	6	1975	652	39° 0.4'	25° 16.5'	209.3	8.1	208	45448
14	6	1975	814	38° 50.6'	25° 9.8'	220.4	7.6	211	45394
14	6	1975	925	38° 42.9'	25° 3.8'	229.4	7.6	218	45393
14	6	1975	926	38° 42.8'	25° 3.7'	229.6	9.3	199	45361
14	6	1975	1000	38° 37.8'	25° 1.5'	234.9	9.7	206	45280
14	6	1975	1123	38° 25.7'	24° 54.0'	248.3	9.3	210	45271
14	6	1975	1132	38° 24.5'	24° 53.1'	249.7	9.8	203	45232
14	6	1975	1212	38° 18.5'	24° 49.9'	256.2	9.6	203	45196
14	6	1975	1248	38° 13.2'	24° 47.0'	262.0	9.5	211	45129
14	6	1975	1358	38° 3.7'	24° 39.7'	273.1	9.1	209	45104
14	6	1975	1425	38° 0.1'	24° 37.2'	277.2	9.2	202	45098
14	6	1975	1432	37° 59.1'	24° 36.7'	278.2	9.0	204	45027
14	6	1975	1548	37° 48.7'	24° 30.8'	289.6	9.1	204	45010
14	6	1975	1606	37° 46.2'	24° 29.4'	292.4	9.4	197	44999
14	6	1975	1618	37° 44.4'	24° 28.7'	294.3	8.8	188	44934
14	6	1975	1730	37° 33.9'	24° 26.9'	304.9	8.5	197	44912
14	6	1975	1755	37° 30.5'	24° 25.6'	308.4	8.8	218	44906
14	6	1975	1802	37° 29.7'	24° 24.8'	309.4	9.4	228	44794
14	6	1975	2012	37° 16.0'	24° 5.8'	329.8	9.4	223	44728
14	6	1975	2126	37° 7.6'	23° 55.8'	341.4	9.8	223	44698
14	6	1975	2158	37° 03.8'	23° 51.3'	346.6	9.2	224	44591
15	6	1975	000	36° 50.3'	23° 35.1'	365.3	9.5	224	44579
15	6	1975	014	36° 48.7'	23° 33.2'	367.5	8.9	228	44570
15	6	1975	025	36° 47.6'	23° 31.7'	369.2	8.8	213	44538
15	6	1975	100	36° 43.3'	23° 28.2'	374.3	9.3	211	44504
15	6	1975	136	36° 38.5'	23° 24.6'	379.9	9.2	212	44485
15	6	1975	156	36° 35.9'	23° 22.6'	382.9	9.4	210	44451
15	6	1975	230	36° 31.3'	23° 19.3'	388.3	9.5	209	44428
15	6	1975	253	36° 28.1'	23° 17.1'	391.9	9.5	221	44404
15	6	1975	320	36° 24.9'	23° 13.6'	396.2	9.4	246	44391

TABLE 1 – *Continued*

Day	Mon	Year	Time ^a	Latitude	Longitude	Distance (n. mi.)	Speed (kt)	Course	Regional Mag
15	6	1975	339	36° 23.7'	23° 10.2'	399.2	9.0	270	44389
15	6	1975	346	36° 23.7'	23° 8.9'	400.2	9.4	272	44384
15	6	1975	403	36° 23.8'	23° 5.6'	402.9	9.8	278	44382
15	6	1975	412	36° 24.0'	23° 3.8'	404.3	9.6	287	44382
15	6	1975	459	36° 26.2'	22° 54.9'	411.8	9.4	257	44351
15	6	1975	558	36° 24.1'	22° 43.7'	421.1	8.5	253	44309
15	6	1975	721	36° 20.7'	22° 29.7'	432.9	8.5	273	44303
15	6	1975	746	36° 20.9'	22° 25.3'	436.4	8.5	271	44281
15	6	1975	912	36° 21.2'	22° 10.1'	448.6	8.1	271	44264
15	6	1975	1024	36° 21.4'	21° 58.0'	458.4	7.9	271	44255
15	6	1975	1100	36° 21.5'	21° 52.1'	463.1	7.9	271	44245
15	6	1975	1142	36° 21.6'	21° 45.2'	468.7	7.9	273	44239
15	6	1975	1210	36° 21.8'	21° 40.6'	472.4	7.7	273	44227
15	6	1975	1310	36° 22.2'	21° 31.0'	480.2	8.0	274	44223
15	6	1975	1330	36° 22.4'	21° 27.7'	482.8	8.2	274	44207
15	6	1975	1456	36° 23.3'	21° 13.2'	494.5	7.9	273	44179
15	6	1975	1708	36° 24.1'	20° 51.5'	512.0	8.7	272	44173
15	6	1975	1732	36° 24.2'	20° 47.2'	515.5	8.5	270	44152
15	6	1975	1854	36° 24.3'	20° 32.7'	527.1	9.1	270	44114
15	6	1975	2110	36° 24.4'	20° 7.2'	547.7	8.8	270	44095
15	6	1975	2220	36° 24.4'	19° 54.4'	558.0	8.7	271	44071
16	6	1975	000	36° 24.7'	19° 36.3'	572.5	9.1	270	44069
16	6	1975	008	36° 24.7'	19° 34.8'	573.7	9.2	273	44064
16	6	1975	030	36° 24.9'	19° 30.6'	577.1	8.8	271	44054
16	6	1975	110	36° 25.0'	19° 23.3'	583.0	8.7	271	44037
16	6	1975	216	36° 25.1'	19° 11.4'	592.6	8.8	272	44028
16	6	1975	254	36° 25.3'	19° 4.5'	598.1	8.8	270	44027
16	6	1975	300	36° 25.3'	19° 3.4'	599.0	9.0	273	44020
16	6	1975	328	36° 25.5'	18° 58.2'	603.2	9.3	272	43996
16	6	1975	504	36° 25.9'	18° 39.7'	618.1	9.6	272	43973
16	6	1975	636	36° 26.3'	18° 21.4'	632.8	9.3	286	43973
16	6	1975	643	36° 26.6'	18° 20.1'	633.9	9.6	270	43971
16	6	1975	648	36° 26.6'	18° 19.1'	634.7	9.4	275	43968
16	6	1975	703	36° 26.8'	18° 16.2'	637.1	10.5	247	43966
16	6	1975	706	36° 26.6'	18° 15.6'	637.6	7.1	253	43958
16	6	1975	726	36° 25.9'	18° 12.8'	639.9	7.3	275	43952
16	6	1975	809	36° 26.4'	18° 6.3'	645.2	9.4	275	43949
16	6	1975	824	36° 26.6'	18° 3.4'	647.5	9.0	274	43929
16	6	1975	1010	36° 27.8'	17° 43.7'	663.4	8.9	276	43917
16	6	1975	1120	36° 28.8'	17° 30.8'	673.9	8.3	278	43910
16	6	1975	1220	36° 29.9'	17° 20.6'	682.1	8.7	278	43904
16	6	1975	1308	36° 30.9'	17° 12.0'	689.1	8.3	279	43898
16	6	1975	1406	36° 32.1'	17° 2.1'	697.2	8.5	274	43892
16	6	1975	1436	36° 32.4'	16° 56.8'	701.4	7.7	274	43891
16	6	1975	1446	36° 32.5'	16° 55.2'	702.7	5.2	278	43886
16	6	1975	1556	36° 33.4'	16° 47.7'	708.8	5.1	266	43883
16	6	1975	1615	36° 33.3'	16° 45.7'	710.4	8.1	264	43878
16	6	1975	1630	36° 33.1'	16° 43.2'	712.4	8.6	270	43857
16	6	1975	1758	36° 33.1'	16° 27.5'	725.0	8.1	268	43837
16	6	1975	1916	36° 32.7'	16° 14.4'	735.6	8.2	286	43837
16	6	1975	1935	36° 33.4'	16° 11.3'	738.2	7.9	270	43834
16	6	1975	1946	36° 33.4'	16° 9.5'	739.6	8.6	269	43825
16	6	1975	2024	36° 33.3'	16° 2.7'	745.1	8.5	271	43803
16	6	1975	2200	36° 33.5'	15° 45.7'	758.7	8.7	270	43801
16	6	1975	2210	36° 33.5'	15° 43.9'	760.2	9.6	267	43780
16	6	1975	2316	36° 33.0'	15° 30.7'	770.8	9.2	270	43769
17	6	1975	000	36° 33.0'	15° 22.3'	777.5	9.3	271	43753
17	6	1975	106	36° 33.1'	15° 9.6'	787.7	8.6	268	43747
17	6	1975	130	36° 33.0'	15° 5.3'	791.2	8.6	284	43747
17	6	1975	208	36° 34.3'	14° 58.7'	796.7	9.1	281	43746

TABLE 1 – *Continued*

Day	Mon	Year	Time ^a	Latitude	Longitude	Distance (n. mi.)	Speed (kt)	Course	Regional Mag
17	6	1975	215	36° 34.5'	14° 57.4'	797.7	9.2	294	43747
17	6	1975	223	36° 35.0'	14° 56.0'	799.0	9.0	284	43747
17	6	1975	234	36° 35.4'	14° 54.0'	800.6	8.5	284	43747
17	6	1975	254	36° 36.1'	14° 50.6'	803.4	8.3	284	43747
17	6	1975	354	36° 38.1'	14° 40.5'	811.8	8.0	283	43746
17	6	1975	420	36° 38.9'	14° 36.3'	815.2	8.6	293	43760
17	6	1975	554	36° 44.2'	14° 20.9'	828.7	7.8	277	43757
17	6	1975	625	36° 44.7'	14° 15.9'	832.7	8.0	267	43742
17	6	1975	721	36° 44.3'	14° 6.6'	840.2	7.6	284	43742
17	6	1975	740	36° 44.9'	14° 3.7'	842.6	4.8	270	43742
17	6	1975	741	36° 44.9'	14° 3.6'	842.7	7.5	272	43735
17	6	1975	822	36° 45.1'	13° 57.2'	847.8	7.4	291	43737
17	6	1975	838	36° 45.8'	13° 54.9'	849.8	7.4	272	43730
17	6	1975	922	36° 46.0'	13° 48.1'	855.2	7.6	264	43728
17	6	1975	929	36° 45.9'	13° 47.0'	856.1	6.9	300	43730
17	6	1975	941	36° 46.6'	13° 45.5'	857.5	7.4	266	43718
17	6	1975	1032	36° 46.2'	13° 37.7'	863.7	7.2	269	43710
17	6	1975	1110	36° 46.1'	13° 32.0'	868.3	7.7	270	43709
17	6	1975	1115	36° 46.1'	13° 31.2'	869.0	7.7	246	43701
17	6	1975	1130	36° 45.3'	13° 29.0'	870.9	7.1	279	43698
17	6	1975	1218	36° 46.2'	13° 22.0'	876.6	7.2	276	43696
17	6	1975	1242	36° 46.5'	13° 18.4'	879.5	6.7	321	43699
17	6	1975	1250	36° 47.2'	13° 17.7'	880.4	7.2	270	43698
17	6	1975	1254	36° 47.2'	13° 17.1'	880.8	4.8	270	43698
17	6	1975	1258	36° 47.2'	13° 16.7'	881.2	4.8	270	43698
17	6	1975	1300	36° 47.2'	13° 16.5'	881.3	8.5	278	43696
17	6	1975	1320	36° 47.6'	13° 13.0'	884.2	7.7	274	43694
17	6	1975	1330	36° 47.7'	13° 11.4'	885.4	7.6	288	43699
17	6	1975	1444	36° 50.6'	13° 0.3'	894.8	7.1	288	43700
17	6	1975	1506	36° 51.4'	12° 57.2'	897.4	7.5	290	43703
17	6	1975	1532	36° 52.5'	12° 53.4'	900.6	8.1	294	43719
17	6	1975	1718	36° 58.3'	12° 37.0'	915.0	8.3	295	43727
17	6	1975	1800	37° 00.8'	12° 30.4'	920.8	8.2	290	43732
17	6	1975	1850	37° 03.1'	12° 22.3'	927.7	8.3	292	43739
17	6	1975	1945	37° 05.9'	12° 13.4'	935.3	8.4	288	43741
17	6	1975	2018	37° 07.3'	12° 07.9'	939.9	8.2	285	43742
17	6	1975	2038	37° 08.0'	12° 04.6'	942.6	7.7	286	43743
17	6	1975	2120	37° 09.5'	11° 58.1'	948.0	7.9	284	43745
17	6	1975	2230	37° 11.8'	11° 46.9'	957.2	7.7	288	43747
17	6	1975	2306	37° 13.2'	11° 41.4'	961.8	7.4	285	43748
18	6	1975	000	37° 14.9'	11° 33.3'	968.5	7.8	293	43749
18	6	1975	002	37° 15.0'	11° 33.0'	968.8	7.2	287	43750
18	6	1975	022	37° 15.7'	11° 30.1'	971.2	6.8	282	43749
18	6	1975	120	37° 17.1'	11° 22.0'	977.8	7.1	279	43748
18	6	1975	146	37° 17.6'	11° 18.2'	980.8	6.9	285	43750
18	6	1975	304	37° 19.9'	11° 07.3'	989.8	8.2	284	43750
18	6	1975	328	37° 20.7'	11° 03.3'	993.1	7.9	284	43752
18	6	1975	515	37° 24.1'	10° 46.2'	1007.1	7.7	321	43753
18	6	1975	516	37° 24.2'	10° 46.1'	1007.2	7.4	295	43786
18	6	1975	834	37° 34.4'	10° 18.2'	1031.6	7.2	298	43801
18	6	1975	946	37° 38.4'	10° 08.5'	1040.3	7.3	276	43797
18	6	1975	1020	37° 38.8'	10° 03.3'	1044.4	6.9	277	43793
18	6	1975	1128	37° 39.8'	9° 53.5'	1052.2	7.5	277	43791
18	6	1975	1154	37° 40.2'	9° 49.4'	1055.5	7.7	275	43789
18	6	1975	1212	37° 40.4'	9° 46.5'	1057.8	7.5	281	43789
18	6	1975	1245	37° 41.2'	9° 41.4'	1061.9	7.5	286	43791
18	6	1975	1316	37° 42.3'	9° 36.7'	1065.8	7.3	286	43794
18	6	1975	1418	37° 44.4'	9° 27.5'	1073.4	7.7	282	43794
18	6	1975	1440	37° 45.0'	9° 24.0'	1076.2	6.8	283	43794
18	6	1975	1500	37° 45.5'	9° 21.2'	1078.5	6.9	279	43792

TABLE 1 - *Continued*

Day	Mon	Year	Time ^a	Latitude	Longitude	Distance (n. mi.)	Speed (kt)	Course	Regional Mag
18	6	1975	1604	37° 46.7'	9° 12.0'	1085.8	7.0	279	43791
18	6	1975	1626	37° 47.1'	9° 08.8'	1088.4	7.3	278	43786
18	6	1975	1754	37° 48.5'	8° 55.4'	1099.1	7.4	277	43779
18	6	1975	1940	37° 50.2'	8° 38.9'	1112.2	7.8	279	43777
18	6	1975	2034	37° 51.3'	8° 30.1'	1119.2	7.7	280	43775
18	6	1975	2326	37° 55.3'	8° 02.5'	1141.4	7.5	281	43774
19	6	1975	000	37° 56.1'	7° 57.2'	1145.6	7.8	281	43774
19	6	1975	008	37° 56.3'	7° 55.9'	1146.7	7.5	278	43773
19	6	1975	048	37° 57.0'	7° 49.6'	1151.7	7.5	275	43770
19	6	1975	114	37° 57.3'	7° 45.5'	1155.0	7.5	279	43768
19	6	1975	216	37° 58.5'	7° 35.8'	1162.7	7.4	278	43767
19	6	1975	240	37° 58.9'	7° 32.1'	1165.6	7.4	279	43764
19	6	1975	402	38° 00.4'	7° 19.4'	1175.8	8.2	282	43765
19	6	1975	435	38° 01.3'	7° 13.8'	1180.3	8.2	257	43741
19	6	1975	542	37° 59.3'	7° 02.4'	1189.5	6.0	257	43717
19	6	1975	712	37° 57.3'	6° 51.2'	1198.5	8.2	257	43708
19	6	1975	738	37° 56.5'	6° 46.8'	1202.1	8.0	259	43671
19	6	1975	932	37° 53.5'	6° 28.0'	1217.2	7.3	260	43652
19	6	1975	1040	37° 52.1'	6° 17.6'	1225.5	7.4	252	43611
19	6	1975	1226	37° 48.1'	6° 01.8'	1238.6	8.6	255	43490
19	6	1975	1724	37° 37.0'	5° 09.4'	1281.6	9.5	266	43470
19	6	1975	1846	37° 36.1'	4° 53.1'	1294.5	8.7	261	43396
19	6	1975	2240	37° 30.6'	4° 10.7'	1328.6	8.9	264	43386
19	6	1975	2316	37° 30.0'	4° 04.0'	1333.9	9.0	262	43373
20	6	1975	000	37° 29.1'	3° 55.8'	1340.5	9.0	262	43366
20	6	1975	024	37° 28.6'	3° 51.3'	1344.1	9.1	262	43350
20	6	1975	118	37° 27.4'	3° 41.1'	1352.3	8.6	262	43333
20	6	1975	216	37° 26.2'	3° 30.7'	1360.6	9.2	263	43319
20	6	1975	304	37° 25.3'	3° 21.5'	1368.0	8.6	265	43312
20	6	1975	334	37° 24.9'	3° 16.1'	1372.3	8.6	264	43287
20	6	1975	518	37° 23.4'	2° 57.4'	1387.2	8.9	265	43281
20	6	1975	540	37° 23.1'	2° 53.3'	1390.5	8.8	261	43262
20	6	1975	642	37° 21.6'	2° 42.0'	1399.6	8.7	260	43230
20	6	1975	828	37° 19.0'	2° 23.0'	1414.9	8.5	260	43223
20	6	1975	848	37° 18.5'	2° 19.5'	1417.7	8.6	259	43182
20	6	1975	1100	37° 15.0'	1° 56.2'	1436.6	8.6	255	43168
20	6	1975	1136	37° 13.7'	1° 49.9'	1441.8	8.6	255	43152
20	6	1975	1218	37° 12.1'	1° 42.6'	1447.8	9.2	257	43133
20	6	1975	1308	37° 10.4'	1° 33.2'	1455.5	8.9	256	43125
20	6	1975	1328	37° 09.7'	1° 29.6'	1458.5	8.9	258	43105
20	6	1975	1426	37° 07.9'	1° 19.0'	1467.1	9.3	257	43098
20	6	1975	1446	37° 07.2'	1° 15.2'	1470.2	8.9	257	43065
20	6	1975	1616	37° 04.2'	0° 58.8'	1483.6	9.3	258	43021
20	6	1975	1818	37° 00.1'	0° 35.6'	1502.6	9.3	258	42993
20	6	1975	1836	36° 57.6'	0° 20.8'	1514.7	8.7	258	42980
20	6	1975	2015	36° 56.4'	0° 13.9'	1520.3	8.7	260	42971
20	6	1975	2044	36° 55.7'	0° 08.7'	1524.5	8.6	257	42958
20	6	1975	2124	36° 54.4'	0° 01.7'	1530.3	8.6	257	42947
20	6	1975	2156	36° 53.4'	0° -3.9'	1534.9	5.8	258	42929
20	6	1975	2315	36° 51.8'	0°-13.3'	1542.6	8.6	257	42923
20	6	1975	2334	36° 51.2'	0°-16.6'	1545.3	8.9	258	42914
21	6	1975	000	36° 50.4'	0°-21.3'	1549.1	8.7	257	42910
21	6	1975	012	36° 50.0'	0°-23.4'	1550.8	8.5	257	42887
21	6	1975	122	36° 47.8'	0°-35.5'	1560.8	8.1	255	42865
21	6	1975	226	36° 45.6'	0°-45.9'	1569.4	8.4	253	42855
21	6	1975	250	36° 44.6'	0°-49.9'	1572.7	8.5	255	42836
21	6	1975	344	36° 42.6'	0°-59.1'	1580.4	8.5	257	42826
21	6	1975	412	36° 41.7'	-1° 03.9'	1584.3	9.4	257	42819
21	6	1975	432	36° 41.0'	-1° 07.7'	1587.5	8.4	259	42796
21	6	1975	550	36° 38.9'	-1° 21.0'	1598.3	7.7	261	42790

TABLE 1 - *Continued*

Day	Mon	Year	Time ^a	Latitude	Longitude	Distance (n. mi.)	Speed (kt)	Course	Regional Mag
21	6	1975	616	36° 38.4'	-1° 25.1'	1601.7	8.0	260	42770
21	6	1975	732	36° 36.6'	-1° 37.6'	1611.8	8.5	261	42736
21	6	1975	942	36° 33.7'	-2° 00.2'	1630.2	8.2	259	42724
21	6	1975	1025	36° 32.6'	-2° 07.4'	1636.1	7.6	260	42719
21	6	1975	1048	36° 32.1'	-2° 11.0'	1639.0	7.3	270	42718
21	6	1975	1050	36° 32.1'	-2° 11.3'	1639.3	9.1	265	42711
21	6	1975	1130	36° 31.6'	-2° 18.8'	1645.3	7.7	259	42649
21	6	1975	1526	36° 25.8'	-2° 55.9'	1675.7	7.8	261	42625
21	6	1975	1712	36° 23.6'	-3° 12.9'	1689.6	8.6	260	42620
21	6	1975	1732	36° 23.1'	-3° 16.4'	1692.4	8.9	259	42600
21	6	1975	1842	36° 21.2'	-3° 29.1'	1702.8	8.1	256	42567
21	6	1975	2030	36° 17.8'	-3° 46.6'	1717.3	6.9	250	42519
21	6	1975	2250	36° 12.4'	-4° 05.5'	1733.5	6.3	248	42516
21	6	1975	2300	36° 12.0'	-4° 06.7'	1734.6	5.6	294	42520
21	6	1975	2316	36° 12.6'	-4° 08.4'	1736.1	6.4	246	42504
22	6	1975	000	36° 10.7'	-4° 13.7'	1740.7	6.2	246	42485
22	6	1975	052	36° 08.5'	-4° 19.8'	1746.1	5.8	257	42480
22	6	1975	115	36° 08.0'	-4° 22.5'	1748.4	5.7	261	42475
22	6	1975	150	36° 07.5'	-4° 26.6'	1751.7	6.1	241	42471
22	6	1975	200	36° 07.0'	-4° 27.7'	1752.7	5.7	261	42468
22	6	1975	220	36° 06.7'	-4° 30.0'	1754.6	8.1	276	42468
22	6	1975	240	36° 07.0'	-4° 33.3'	1757.3	5.8	270	42468
22	6	1975	245	36° 07.0'	-4° 33.9'	1757.8	5.9	275	42468
22	6	1975	322	36° 07.3'	-4° 38.4'	1761.4	6.6	274	42468
22	6	1975	415	36° 07.7'	-4° 45.6'	1767.3	4.0	282	42469
22	6	1975	430	36° 07.9'	-4° 46.8'	1768.3	6.6	274	42469
22	6	1975	510	36° 08.2'	-4° 52.2'	1772.6	8.2	273	42468
22	6	1975	637	36° 08.8'	-5° 06.9'	1784.5	9.7	270	42468
22	6	1975	638	36° 08.8'	-5° 07.1'	1784.7	8.3	253	42450
22	6	1975	730	36° 06.7'	-5° 15.6'	1791.9	8.4	248	42439
22	6	1975	755	36° 05.4'	-5° 19.6'	1795.3	8.5	225	42416
22	6	1975	824	36° 02.5'	-5° 23.2'	1799.4	7.4	238	42366
22	6	1975	1000	35° 56.2'	-5° 35.7'	1811.4	8.9	285	42375
22	6	1975	1042	35° 57.8'	-5° 43.1'	1817.6	8.6	269	42370
22	6	1975	1146	35° 57.7'	-5° 54.4'	1826.7	7.8	272	42370
22	6	1975	1228	35° 57.9'	-6° 01.1'	1832.1	7.4	270	42369
22	6	1975	1245	35° 57.9'	-6° 03.7'	1834.2	7.6	278	42373
22	6	1975	1332	35° 58.7'	-6° 11.0'	1840.2	7.9	275	42375
22	6	1975	1424	35° 59.3'	-6° 19.4'	1847.0	7.9	270	42372
22	6	1975	1520	35° 59.3'	-6° 28.5'	1854.4	4.9	270	42372
22	6	1975	1535	35° 59.3'	-6° 30.0'	1855.6	7.9	270	42370
22	6	1975	1630	35° 59.3'	-6° 38.9'	1862.8	8.3	276	42376
22	6	1975	1822	36° 00.8'	-6° 58.0'	1878.3	8.6	276	42388
22	6	1975	2056	36° 03.1'	-7° 25.2'	1900.4	8.4	279	42391
22	6	1975	2120	36° 03.6'	-7° 29.3'	1903.8	8.4	276	42397
22	6	1975	2238	36° 04.8'	-7° 42.8'	1914.8	9.0	275	42403
23	6	1975	000	36° 05.9'	-7° 57.9'	1927.0	9.0	276	42406
23	6	1975	026	36° 06.3'	-8° 02.7'	1930.9	9.0	275	42410
23	6	1975	130	36° 07.1'	-8° 14.6'	1940.6	9.0	275	42415
23	6	1975	234	36° 07.9'	-8° 26.5'	1950.2	8.6	276	42418
23	6	1975	300	36° 08.3'	-8° 31.1'	1954.0	8.8	278	42420
23	6	1975	314	36° 08.6'	-8° 33.6'	1956.0	8.6	276	42426
23	6	1975	420	36° 09.6'	-8° 45.2'	1965.4	8.1	277	42465
23	6	1975	916	36° 14.8'	-9° 34.4'	2005.5	8.3	277	42469
23	6	1975	952	36° 15.4'	-9° 40.5'	2010.4	8.2	278	42485
23	6	1975	1140	36° 17.4'	-9° 58.6'	2025.1	8.2	279	42496
23	6	1975	1242	36° 18.7'	-10° 09.0'	2033.6	8.5	279	42502
23	6	1975	1320	36° 19.5'	-10° 15.6'	2039.0	8.4	278	42514
23	6	1975	1430	36° 20.8'	-10° 27.7'	2048.8	8.1	279	42520
23	6	1975	1504	36° 21.5'	-10° 33.3'	2053.4	8.9	276	42524

TABLE 1 – *Continued*

Day	Mon	Year	Time ^a	Latitude	Longitude	Distance (n. mi.)	Speed (kt)	Course	Regional Mag
23	6	1975	1534	36° 22.0'	-10° 38.8'	2057.9	8.6	277	42541
23	6	1975	1722	36° 23.9'	-10° 57.8'	2073.3	8.7	279	42557
23	6	1975	1838	36° 25.6'	-11° 11.3'	2084.3	8.5	275	42571
23	6	1975	2024	36° 26.9'	-11° 30.0'	2099.4	9.0	275	42584
23	6	1975	2150	36° 28.1'	-11° 45.9'	2112.2	8.6	276	42601
23	6	1975	2336	36° 29.7'	-12° 04.7'	2127.4	8.7	278	42606
24	6	1975	000	36° 30.2'	-12° 09.0'	2130.9	8.6	278	42614
24	6	1975	042	36° 31.0'	-12° 16.4'	2136.9	8.6	277	42632
24	6	1975	208	36° 32.6'	-12° 31.6'	2149.2	8.8	277	42636
24	6	1975	230	36° 33.0'	-12° 35.6'	2152.5	8.9	279	42652
24	6	1975	332	36° 34.5'	-12° 46.9''	2161.7	8.5	283	42658
24	6	1975	354	36° 35.2'	-12° 50.7'	2164.8	8.1	282	42682
24	6	1975	520	36° 37.6'	-13° 04.9'	2176.4	8.6	278	42699
24	6	1975	634	36° 39.1'	-13° 18.0'	2187.1	8.5	279	42709
24	6	1975	716	36° 40.0'	-13° 25.3'	2193.0	8.6	276	42752
24	6	1975	1052	36° 43.1'	-14° 03.6'	2223.8	9.0	280	42770
24	6	1975	1154	36° 44.7'	-14° 15.0'	2233.1	8.9	279	42806
24	6	1975	1402	36° 47.7'	-14° 38.3'	2252.0	8.6	282	42815
24	6	1975	1430	36° 48.5'	-14° 43.2'	2256.0	8.5	280	42820
24	6	1975	1466	36° 48.9'	-14° 46.0'	2258.3	8.6	278	42898
24	6	1975	1930	36° 54.7'	-15° 36.1'	2298.8	8.4	278	42929
24	6	1975	2122	36° 56.9'	-15° 55.4'	2314.4	8.4	277	42935
24	6	1975	2145	36° 57.3'	-15° 59.4'	2317.6	8.5	275	42950
24	6	1975	2248	36° 58.1'	-16° 10.5'	2326.5	7.8	277	42966
24	6	1975	2352	36° 59.1'	-16° 20.8'	2334.8	7.8	276	42968
25	6	1975	000	36° 59.2'	-16° 22.1'	2335.8	7.6	273	42974
25	6	1975	034	36° 59.4'	-16° 27.5'	2340.2	7.5	273	42979
25	6	1975	102	36° 59.6'	-16° 31.9'	2343.7	7.5	274	43001
25	6	1975	246	37° 00.6'	-16° 48.2'	2356.7	7.4	274	43023
25	6	1975	430	37° 01.6'	-17° 04.3'	2369.6	7.7	277	43070
25	6	1975	726	37° 04.3'	-17° 32.3'	2392.1	7.8	275	43096
25	6	1975	912	37° 05.6'	-17° 49.4'	2405.8	7.9	276	43110
25	6	1975	1002	37° 06.3'	-17° 57.6'	2412.4	7.2	274	43133
25	6	1975	1148	37° 07.1'	-18° 13.6'	2425.2	7.9	272	43146
25	6	1975	1252	37° 07.4'	-18° 24.1'	2433.6	7.4	272	43168
25	6	1975	1436	37° 07.9'	-18° 40.1'	2446.4	8.2	272	43183
25	6	1975	1542	37° 08.2'	-18° 51.4'	2455.4	7.9	272	43192
25	6	1975	1622	37° 08.4'	-18° 58.0'	2460.6	8.2	272	43208
25	6	1975	1730	37° 08.7'	-19° 09.7'	2470.0	6.8	273	43222
25	6	1975	1836	37° 09.1'	-19° 19.0'	2477.4	6.8	274	43225
25	6	1975	1848	37° 09.2'	-19° 20.7'	2478.7	7.4	258	43225
25	6	1975	1852	37° 09.1'	-19° 21.3'	2479.2	7.0	252	43222
25	6	1975	1920	37° 08.1'	-19° 25.2'	2482.5	6.8	273	43235
25	6	1975	2020	37° 08.5'	-19° 33.7'	2489.3	8.0	273	43263
25	6	1975	2202	37° 09.3'	-19° 50.7'	2502.9	7.4	272	43291
26	6	1975	000	37° 09.9'	-20° 09.0'	2517.5	7.5	273	43304
26	6	1975	050	37° 10.2'	-20° 16.8'	2523.7	7.7	273	43332
26	6	1975	236	37° 10.9'	-20° 33.9'	2537.3	7.9	273	43342
26	6	1975	310	37° 11.1'	-20° 39.5'	2541.8	7.9	273	43345
26	6	1975	324	37° 11.2'	-20° 41.8'	2543.6	7.8	277	43354
26	6	1975	348	37° 11.6'	-20° 45.7'	2546.8	8.3	273	43404
26	6	1975	632	37° 12.8'	-21° 14.3'	2569.6	8.6	273	43419
26	6	1975	718	37° 13.1'	-21° 22.6'	2576.2	8.0	274	43546
26	6	1975	1348	37° 16.4'	-22° 27.9'	2628.3	8.3	276	43569
26	6	1975	1445	37° 17.2'	-22° 37.8'	2636.2	8.1	280	43573
26	6	1975	1454	37° 17.4'	-22° 39.3'	2637.4	8.4	276	43581
26	6	1975	1514	37° 17.7'	-22° 42.8'	2640.2	7.7	276	43652
26	6	1975	1826	37° 20.1'	-23° 13.7'	2664.9	8.0	275	43675
26	6	1975	1926	37° 20.8'	-23° 23.7'	2672.9	7.6	274	43683
26	6	1975	1948	37° 21.0'	-23° 27.2'	2675.7	7.5	281	43725

TABLE 1 – *Continued*

Day	Mon	Year	Time ^a	Latitude	Longitude	Distance (n. mi.)	Speed (kt)	Course	Regional Mag
26	6	1975	2120	37° 23.1'	-23° 41.4'	2687.1	9.5	277	43774
26	6	1975	2258	37° 24.9'	-24° 00.7'	2702.6	8.5	280	43807
27	6	1975	000	37° 26.5'	-24° 11.6'	2711.4	7.2	270	43808
27	6	1975	002	37° 26.5'	-24° 11.9'	2711.6	8.5	281	43830
27	6	1975	044	37° 27.6'	-24° 19.3'	2717.6	8.2	282	43864
27	6	1975	146	37° 29.4'	-24° 29.8'	2726.1	7.7	284	43882
27	6	1975	218	37° 30.4'	-24° 34.8'	2730.2	7.8	279	43932
27	6	1975	404	37° 32.6'	-24° 51.9'	2743.9	8.5	282	43965
27	6	1975	500	37° 34.3'	-25° 01.7'	2751.9	8.5	289	44026
27	6	1975	628	37° 38.3'	-25° 16.5'	2764.3	8.5	283	44036
27	6	1975	644	37° 38.8'	-25° 19.3'	2766.6	7.5	283	44048
27	6	1975	706	37° 39.4'	-25° 22.7'	2769.3	7.5	279	44055
27	6	1975	722	37° 39.7'	-25° 25.2'	2771.3	9.9	280	44067
27	6	1975	740	37° 40.2'	-25° 28.9'	2774.3	1.3	281	44098
27	6	1975	1335	37° 41.7'	-25° 38.4'	2782.0	10.8	273	44104
27	6	1975	1346	37° 41.8'	-25° 40.9'	2783.9	8.5	276	44111
27	6	1975	1400	37° 42.0'	-25° 43.4'	2785.9	6.0	277	44114
27	6	1975	1408	37° 42.1'	-25° 44.4'	2786.7	8.3	266	44125
27	6	1975	1446	37° 41.7'	-25° 51.0'	2792.0	8.5	271	44259
27	6	1975	2016	37° 42.3'	-26° 50.1'	2838.7	8.7	270	44305
27	6	1975	2204	37° 42.4'	-27° 09.9'	2854.4	9.5	274	44365
27	6	1975	2356	37° 43.5'	-27° 32.2'	2872.1	9.4	270	44367
28	6	1975	000	37° 43.5'	-27° 33.0'	2872.7	8.8	271	44394
28	6	1975	058	37° 43.7'	-27° 43.8'	2881.2	10.2	270	44416
28	6	1975	140	37° 43.7'	-27° 52.8'	2888.4	8.9	271	44445
28	6	1975	240	37° 43.9'	-28° 04.0'	2897.2	8.8	272	44480
28	6	1975	350	37° 44.3'	-28° 17.0'	2907.5	9.0	271	44506
28	6	1975	442	37° 44.5'	-28° 26.9'	2915.3	9.1	270	44663
28	6	1975	958	37° 44.8'	-29° 27.4'	2963.2	8.9	274	44705
28	6	1975	1110	37° 45.6'	-29° 40.9'	2973.9	8.9	274	44742
28	6	1975	1212	37° 46.3'	-29° 52.5'	2983.1	8.5	274	44766
28	6	1975	1256	37° 46.7'	-30° 00.4'	2989.3	9.0	271	44826
28	6	1975	1446	37° 47.1'	-30° 21.2'	3005.8	9.3	273	44861
28	6	1975	1544	37° 47.5'	-30° 32.6'	3014.8	8.9	276	44970
28	6	1975	1832	37° 50.1'	-31° 04.0'	3039.7	8.6	272	44998
28	6	1975	1922	37° 50.3'	-31° 13.1'	3046.9	8.6	270	45010
28	6	1975	1945	37° 50.3'	-31° 17.3'	3050.2	8.6	272	45058
28	6	1975	2108	37° 50.8'	-31° 32.4'	3062.2	9.0	272	45122
28	6	1975	2256	37° 51.4'	-31° 52.8'	3078.3	9.5	272	45133
28	6	1975	2312	37° 51.5'	-31° 56.0'	3080.8	8.8	272	45161
29	6	1975	000	37° 51.7'	-32° 04.9'	3087.9	8.9	271	45193
29	6	1975	054	37° 51.9'	-32° 15.0'	3095.8	8.6	272	45208
29	6	1975	120	37° 52.0'	-32° 19.7'	3099.5	8.4	274	45226
29	6	1975	150	37° 52.3'	-32° 25.0'	3103.7	9.3	274	45344
29	6	1975	440	37° 54.2'	-32° 58.2'	3130.0	8.6	273	45370
29	6	1975	522	37° 54.5'	-33° 05.8'	3136.0	9.2	276	45418
29	6	1975	628	37° 55.5'	-33° 18.6'	3146.2	9.3	275	45456
29	6	1975	720	37° 56.2'	-33° 28.8'	3154.2	9.1	269	45491
29	6	1975	818	37° 56.1'	-33° 40.0'	3163.1	8.8	278	45608
29	6	1975	1052	37° 59.2'	-34° 08.5'	3185.7	9.0	277	45666
29	6	1975	1208	38° 00.6'	-34° 22.8'	3197.1	8.9	276	45711
29	6	1975	1308	38° 01.6'	-34° 34.0'	3206.0	9.1	275	45790
29	6	1975	1454	38° 03.1'	-34° 54.3'	3222.0	9.4	274	45895
29	6	1975	1712	38° 04.5'	-35° 21.7'	3243.7	9.4	271	45915
29	6	1975	1740	38° 04.6'	-35° 27.3'	3248.1	9.1	275	45995
29	6	1975	1926	38° 05.9'	-35° 47.6'	3264.1	9.6	274	46215
30	6	1975	000	38° 08.7'	-36° 43.5'	3308.2	9.5	276	46220
30	6	1975	006	38° 08.8'	-36° 44.7'	3309.1	9.1	272	46266
30	6	1975	108	38° 09.2'	-36° 56.6'	3318.5	9.0	282	46365
30	6	1975	256	38° 12.5'	-37° 16.7'	3334.6	10.4	271	46420

TABLE 1 – *Continued*

Day	Mon	Year	Time ^a	Latitude	Longitude	Distance (n. mi.)	Speed (kt)	Course	Regional Mag
30	6	1975	402	38° 12.6'	-37° 31.3'	3346.1	9.0	282	46512
30	6	1975	540	38° 15.7'	-37° 49.6'	3360.8	8.9	279	46603
30	6	1975	724	38° 18.0'	-38° 09.1'	3376.3	9.4	277	46647
30	6	1975	814	38° 18.9'	-38° 19.0'	3384.1	9.4	276	46738
30	6	1975	956	38° 20.7'	-38° 39.2'	3400.0	8.7	283	46817
30	6	1975	1120	38° 23.4'	-38° 54.3'	3412.2	9.1	280	46916
30	6	1975	1306	38° 26.1'	-39° 14.6'	3428.3	8.5	278	46937
30	6	1975	1330	38° 26.6'	-39° 18.9'	3431.7	8.6	272	46964
30	6	1975	1406	38° 26.8'	-39° 25.5'	3436.9	9.1	272	47050
30	6	1975	1552	38° 27.5'	-39° 46.0'	3453.0	8.9	268	47357
30	6	1975	2252	38° 25.8'	-41° 05.5'	3515.3	10.0	261	47376
30	6	1975	2320	38° 25.1'	-41° 11.4'	3519.9	9.7	270	47410
1	7	1975	000	38° 25.1'	-41° 19.7'	3526.4	9.8	271	47466
1	7	1975	104	38° 25.2'	-41° 33.1'	3536.9	9.8	270	47488
1	7	1975	130	38° 25.2'	-41° 38.5'	3541.2	9.7	275	47522
1	7	1975	206	38° 25.7'	-41° 45.9'	3547.0	9.7	278	47799
1	7	1975	632	38° 32.0'	-42° 40.4'	3590.1	8.9	277	47901
1	7	1975	820	38° 34.0'	-43° 00.8'	3606.2	9.4	274	47924
1	7	1975	845	38° 34.3'	-43° 05.8'	3610.1	9.4	270	47937
1	7	1975	900	38° 34.3'	-43° 08.8'	3612.5	9.0	271	48029
1	7	1975	1050	38° 34.6'	-43° 29.8'	3628.9	9.1	270	48102
1	7	1975	1218	38° 34.5'	-43° 46.8'	3642.2	9.1	268	48183
1	7	1975	1400	38° 33.9'	-44° 06.5'	3657.6	9.1	271	48296
1	7	1975	1610	38° 34.3'	-44° 31.6'	3677.2	9.0	272	48324
1	7	1975	1642	38° 34.5'	-44° 37.7'	3682.0	8.9	274	48380
1	7	1975	1744	38° 35.1'	-44° 49.4'	3691.1	9.0	276	48481
1	7	1975	1930	38° 36.7'	-45° 09.6'	3707.0	8.2	275	48516
1	7	1975	2010	38° 37.2'	-45° 16.6'	3712.5	9.3	276	48622
1	7	1975	2156	38° 39.0'	-45° 37.4'	3728.8	8.6	273	48732
2	7	1975	000	38° 40.0'	-46° 00.2'	3746.7	8.5	273	48746
2	7	1975	016	38° 40.1'	-46° 03.1'	3748.9	9.4	276	48914
2	7	1975	302	38° 42.7'	-46° 36.2'	3774.9	9.7	278	48963
2	7	1975	346	38° 43.7'	-46° 45.2'	3782.0	10.3	275	48991
2	7	1975	412	38° 44.1'	-46° 50.9'	3786.5	9.4	282	49082
2	7	1975	532	38° 46.7'	-47° 06.7'	3799.1	8.3	281	49196
2	7	1975	728	38° 49.7'	-47° 26.8'	3815.0	7.4	282	49417
2	7	1975	1132	38° 56.0'	-48° 04.8'	3845.3	7.7	282	49439
2	7	1975	1155	38° 56.6'	-48° 08.5'	3848.2	7.5	271	49499
2	7	1975	1316	38° 56.7'	-48° 21.5'	3858.3	7.1	265	49535
2	7	1975	1414	38° 56.1'	-48° 30.3'	3865.2	7.6	266	49593
2	7	1975	1538	38° 55.3'	-48° 44.0'	3875.9	7.5	272	49611
2	7	1975	1601	38° 55.4'	-48° 47.7'	3878.7	7.2	233	49614
2	7	1975	1714	38° 50.2'	-48° 56.7'	3887.5	7.8	231	49614
2	7	1975	1838	38° 43.3'	-49° 07.6'	3898.4	6.4	224	49611
2	7	1975	1900	38° 41.6'	-49° 09.7'	3900.8	6.0	214	49587
2	7	1975	2026	38° 34.5'	-49° 15.8'	3909.3	7.1	207	49571
2	7	1975	2100	38° 30.9'	-49° 18.1'	3913.3	5.5	224	49559
2	7	1975	2246	38° 24.0'	-49° 26.7'	3923.0	6.9	239	49571
3	7	1975	000	38° 19.7'	-49° 36.0'	3931.5	6.9	239	49591
3	7	1975	216	38° 11.7'	-49° 53.2'	3947.2	7.3	241	49600
3	7	1975	302	38° 09.0'	-49° 59.4'	3952.7	7.1	245	49615
3	7	1975	400	38° 06.1'	-50° 07.3'	3959.6	8.4	228	49613
3	7	1975	430	38° 03.3'	-50° 11.3'	3963.8	7.1	264	49637
3	7	1975	510	38° 02.8'	-50° 17.3'	3968.5	6.7	248	49656
3	7	1975	610	38° 00.3'	-50° 25.2'	3975.3	7.1	247	49664
3	7	1975	636	37° 59.1'	-50° 28.8'	3978.3	6.8	249	49670
3	7	1975	656	37° 58.3'	-50° 31.5'	3980.6	8.7	290	49675
3	7	1975	700	37° 58.5'	-50° 32.2'	3981.2	7.1	236	49682
3	7	1975	824	37° 53.0'	-50° 42.6'	3991.1	7.1	238	49687
3	7	1975	856	37° 51.0'	-50° 46.7'	3994.9	7.2	241	49691

TABLE 1 – *Continued*

Day	Mon	Year	Time ^a	Latitude	Longitude	Distance (n. mi.)	Speed (kt)	Course	Regional Mag
3	7	1975	920	37°49.6'	-50°49.9'	3997.8	7.2	236	49699
3	7	1975	1042	37°44.2'	-51°00.2'	4007.5	7.5	236	49709
3	7	1975	1228	37°36.8'	-51°14.2'	4020.9	7.5	233	49710
3	7	1975	1326	37°32.4'	-51°21.5'	4028.1	6.9	229	49707
3	7	1975	1414	37°28.8'	-51°26.8'	4033.7	6.7	227	49685
3	7	1975	1748	37°12.3'	-51°48.8'	4057.7	6.0	230	49681
3	7	1975	1934	37°05.5'	-51°59.1'	4068.4	5.5	224	49679
3	7	1975	1954	37°04.2'	-52°00.7'	4070.2	5.9	230	49674
3	7	1975	2152	36°56.8'	-52°11.9'	4081.8	6.5	235	49680
3	7	1975	2340	36°50.2'	-52°23.9'	4093.4	5.8	236	49681
4	7	1975	000	36°49.1'	-52°25.9'	4095.4	5.9	234	49682
4	7	1975	026	36°47.6'	-52°28.5'	4097.9	6.1	231	49680
4	7	1975	126	36°43.8'	-52°34.4'	4104.0	6.3	231	49679
4	7	1975	212	36°40.8'	-52°39.1'	4108.8	6.5	234	49682
4	7	1975	420	36°32.6'	-52°53.2'	4122.8	6.7	235	49686
4	7	1975	546	36°27.1'	-53°03.1'	4132.5	6.7	238	49695
4	7	1975	730	36°20.9'	-53°15.4'	4144.2	7.2	239	49712
4	7	1975	946	36°12.6'	-53°32.7'	4160.4	7.5	236	49718
4	7	1975	1134	36°05.1'	-53°46.6'	4173.9	7.7	231	49708
4	7	1975	1422	35°51.4'	-54°07.3'	4195.5	7.3	230	49703
4	7	1975	1510	35°47.6'	-54°12.8'	4201.4	7.4	233	49702
4	7	1975	1610	35°43.1'	-54°20.1'	4208.8	7.1	241	49708
4	7	1975	1652	35°40.7'	-54°25.5'	4213.8	7.8	220	49700
4	7	1975	1718	35°38.1'	-54°28.2'	4217.2	7.8	224	49676
4	7	1975	1906	35°28.0'	-54°40.3'	4231.3	7.8	226	49660
4	7	1975	2030	35°20.4'	-54°49.9'	4242.2	7.7	228	49656
4	7	1975	2100	35°17.8'	-54°53.4'	4246.1	7.9	230	49644
4	7	1975	2244	35°09.0'	-55°06.2'	4259.8	7.6	230	49643
4	7	1975	2300	35°07.7'	-55°08.1'	4261.8	7.9	258	49673
5	7	1975	000	35°06.0'	-55°17.5'	4269.7	7.8	257	49740
5	7	1975	213	35°02.2'	-55°38.1'	4286.9	7.8	244	49741
5	7	1975	220	35°01.8'	-55°39.1'	4287.9	7.5	243	49751
5	7	1975	312	34°58.9'	-55°46.2'	4294.4	7.8	245	49761
5	7	1975	358	34°56.4'	-55°52.8'	4300.3	7.8	243	49775
5	7	1975	516	34°51.8'	-56°03.8'	4310.4	8.3	240	49779
5	7	1975	542	34°50.0'	-56°07.6'	4314.0	8.3	240	49784
5	7	1975	638	34°46.1'	-56°15.7'	4321.7	8.5	240	49787
5	7	1975	702	34°44.4'	-56°19.3'	4325.2	8.5	240	49796
5	7	1975	826	34°38.4'	-56°31.8'	4337.1	8.2	239	49799
5	7	1975	852	34°36.6'	-56°35.5'	4340.6	9.5	247	49828
5	7	1975	1024	34°30.9'	-56°51.8'	4355.2	10.0	113	49808
5	7	1975	1038	34°30.0'	-56°49.2'	4357.5	8.6	113	49660
5	7	1975	1240	34°23.2'	-56°29.8'	4374.9	9.8	109	49628
5	7	1975	1305	34°21.9'	-56°25.1'	4379.0	9.3	298	49653
5	7	1975	1323	34°23.2'	-56°28.1'	4381.8	6.6	298	49687
5	7	1975	1358	34°25.0'	-56°32.2'	4385.6	0.0	90	49686
9	7	1975	830	34°25.0'	-56°32.2'	4385.6	5.7	29	49718
9	7	1975	942	34°31.0'	-56°28.2'	4392.5	8.7	29	49749
9	7	1975	1030	34°37.1'	-56°24.1'	4399.4	9.3	28	49855
9	7	1975	1258	34°57.4'	-56°11.0'	4422.4	10.0	33	49888
9	7	1975	1350	35°04.7'	-56°05.3'	4431.1	11.1	29	49932
9	7	1975	1446	35°13.7'	-55°59.1'	4441.4	9.2	32	49962
9	7	1975	1538	35°20.4'	-55°53.9'	4449.3	9.4	29	50053
9	7	1975	1758	35°39.6'	-55°40.6'	4471.4	9.4	30	50080
9	7	1975	1840	35°45.3'	-55°36.6'	4477.9	8.9	30	50120
9	7	1975	1946	35°53.8'	-55°30.5'	4487.8	8.8	26	50197
9	7	1975	2142	36°09.1'	-55°21.1'	4504.8	8.7	27	50253
9	7	1975	2310	36°20.5'	-55°13.9'	4517.6	8.9	29	50265
9	7	1975	2330	36°23.1'	-55°12.1'	4520.6	8.9	26	50285
10	7	1975	000	36°27.1'	-55°09.7'	4525.1	8.9	26	50321

TABLE 1 – *Continued*

Day	Mon	Year	Time ^a	Latitude	Longitude	Distance (n. mi.)	Speed (kt)	Course	Regional Mag
10	7	1975	054	36° 34.3'	-55° 05.4'	4533.0	9.8	29	50357
10	7	1975	150	36° 42.3'	-54° 59.8'	4542.2	9.4	27	50364
10	7	1975	200	36° 43.7'	-54° 58.9'	4543.8	9.6	30	50389
10	7	1975	242	36° 49.5'	-54° 54.7'	4550.5	8.6	28	50423
10	7	1975	340	36° 56.8'	-54° 49.8'	4558.8	10.5	30	50466
10	7	1975	446	37° 6.8'	-54° 42.6'	4570.3	9.1	31	50522
10	7	1975	632	37° 20.6'	-54° 32.1'	4586.4	8.7	33	50555
10	7	1975	742	37° 29.2'	-54° 25.2'	4596.6	8.6	30	50667
10	7	1975	1124	37° 56.8'	-54° 04.9'	4628.6	9.1	36	50684
10	7	1975	1208	38° 02.2'	-53° 59.9'	4635.3	9.6	38	50721
10	7	1975	1356	38° 15.8'	-53° 46.4'	4652.5	10.4	42	50728
10	7	1975	1425	38° 19.5'	-53° 42.1'	4657.5	10.2	37	50752
10	7	1975	1528	38° 28.0'	-53° 33.9'	4668.2	9.8	37	50763
10	7	1975	1558	38° 31.9'	-53° 30.1'	4673.1	10.6	35	50772
10	7	1975	1618	38° 34.8'	-53° 27.5'	4676.6	10.5	34	50812
10	7	1975	1744	38° 47.2'	-53° 16.7'	4691.6	11.9	40	50820
10	7	1975	1809	38° 51.0'	-53° 12.6'	4696.6	8.6	354	50868
10	7	1975	1852	38° 57.1'	-53° 13.4'	4702.7	8.1	348	50989
10	7	1975	2040	39° 11.3'	-53° 17.2'	4717.2	9.2	341	51016
10	7	1975	2100	39° 14.2'	-53° 18.5'	4720.3	7.5	275	51024
10	7	1975	2110	39° 14.3'	-53° 20.1'	4721.5	4.7	275	51054
10	7	1975	2206	39° 14.7'	-53° 25.8'	4726.0	8.5	88	51035
10	7	1975	2228	39° 14.8'	-53° 21.8'	4729.1	0.0	90	51035
12	7	1975	1015	39° 14.8'	-53° 21.8'	4729.1	6.6	51	51035
12	7	1975	1035	39° 16.2'	-53° 19.6'	4731.3	9.5	51	51032
12	7	1975	1218	39° 26.5'	-53° 03.2'	4747.6	9.8	50	51030
12	7	1975	1308	39° 31.7'	-52° 55.1'	4755.7	9.8	50	51030
12	7	1975	1404	39° 37.6'	-52° 46.1'	4764.8	9.6	50	51028
12	7	1975	1454	39° 42.7'	-52° 38.1'	4772.8	10.0	49	51028
12	7	1975	1606	39° 50.5'	-52° 26.3'	4784.8	10.0	48	51030
12	7	1975	1710	39° 57.7'	-52° 16.0'	4795.5	9.8	46	51033
12	7	1975	1754	40° 02.7'	-52° 09.2'	4802.7	10.3	47	51037
12	7	1975	1856	40° 10.0'	-51° 59.1'	4813.3	12.1	48	51037
12	7	1975	1928	40° 14.3'	-51° 52.8'	4819.8	12.1	52	51031
12	7	1975	2015	40° 20.1'	-51° 43.0'	4829.2	7.3	237	51032
12	7	1975	2021	40° 19.7'	-51° 43.8'	4830.0	4.3	244	51036
12	7	1975	2040	40° 19.1'	-51° 45.4'	4831.3	4.7	246	51044
12	7	1975	2115	40° 18.0'	-51° 48.7'	4834.1	8.9	48	51043
12	7	1975	2212	40° 23.6'	-51° 40.4'	4842.5	4.9	167	51027
12	7	1975	2237	40° 21.6'	-51° 39.8'	4844.6	0.0	0	51027
15	7	1975	658	40° 21.7'	-51° 39.8'	4844.7	2.9	249	51030
15	7	1975	715	40° 21.4'	-51° 40.8'	4845.5	7.4	262	51079
15	7	1975	834	40° 20.0'	-51° 53.4'	4855.2	6.7	263	51142
15	7	1975	1020	40° 18.6'	-52° 08.9'	4867.1	8.4	260	51156
15	7	1975	1040	40° 18.1'	-52° 12.5'	4869.9	8.3	249	51182
15	7	1975	1140	40° 15.1'	-52° 22.6'	4878.2	10.1	248	51208
15	7	1975	1230	40° 11.9'	-52° 32.8'	4886.6	8.8	64	51203
15	7	1975	1244	40° 12.8'	-52° 30.4'	4888.6	6.8	64	51201
15	7	1975	1250	40° 13.1'	-52° 29.6'	4889.3	4.3	62	51200
15	7	1975	1256	40° 13.3'	-52° 29.1'	4889.7	10.1	248	51216
15	7	1975	1326	40° 11.4'	-52° 35.2'	4894.8	9.2	244	51255
15	7	1975	1510	40° 04.4'	-52° 54.0'	4910.7	9.1	246	51285
15	7	1975	1620	40° 00.1'	-53° 06.7'	4921.4	9.1	253	51307
15	7	1975	1658	39° 58.4'	-53° 13.9'	4927.1	9.2	253	51347
15	7	1975	1808	39° 55.2'	-53° 27.2'	4937.8	9.9	252	51379
15	7	1975	1900	39° 52.6'	-53° 37.9'	4946.4	9.7	254	51406
15	7	1975	1942	39° 50.7'	-53° 46.4'	4953.2	9.3	252	51527
15	7	1975	2316	39° 40.6'	-54° 27.3'	4986.3	9.5	252	51539
15	7	1975	2338	39° 39.5'	-54° 31.6'	4989.7	9.0	252	51552
16	7	1975	000	39° 38.5'	-54° 35.7'	4993.1	9.2	252	51568

TABLE 1 - *Continued*

Day	Mon	Year	Time ^a	Latitude	Longitude	Distance (n. mi.)	Speed (kt)	Course	Regional Mag
16	7	1975	030	39° 37.1'	-54° 41.4'	4997.7	9.0	253	51598
16	7	1975	124	39° 34.7'	-54° 51.4'	5005.7	8.9	248	51677
16	7	1975	424	39° 24.5'	-55° 23.5'	5032.5	8.9	239	51693
16	7	1975	534	39° 19.1'	-55° 35.0'	5042.9	8.7	244	51704
16	7	1975	606	39° 17.1'	-55° 40.4'	5047.6	8.5	236	51706
16	7	1975	625	39° 15.6'	-55° 43.3'	5050.3	8.4	241	51716
16	7	1975	702	39° 13.1'	-55° 49.2'	5055.5	8.6	245	51730
16	7	1975	742	39° 10.7'	-55° 55.9'	5061.2	8.4	252	51834
16	7	1975	1114	39° 01.5'	-56° 32.2'	5090.8	8.2	256	51882
16	7	1975	1238	38° 58.8'	-56° 46.6'	5102.3	8.4	258	51911
16	7	1975	1326	38° 57.4'	-56° 55.0'	5109.0	8.3	258	51947
16	7	1975	1426	38° 55.7'	-57° 05.4'	5117.3	8.4	260	51977
16	7	1975	1512	38° 54.6'	-57° 13.6'	5123.7	8.2	261	52316
17	7	1975	000	38° 43.5'	-58° 44.6'	5195.5	8.6	276	52399
17	7	1975	128	38° 44.8'	-59° 00.7'	5208.1	7.1	266	52416
17	7	1975	155	38° 44.6'	-59° 04.8'	5211.3	7.1	258	52431
17	7	1975	224	38° 43.9'	-59° 09.1'	5214.8	8.2	257	52448
17	7	1975	254	38° 43.0'	-59° 14.2'	5218.8	8.1	257	52497
17	7	1975	424	38° 40.3'	-59° 29.3'	5230.9	9.6	259	52507
17	7	1975	440	38° 39.8'	-59° 32.5'	5233.5	6.7	262	52527
17	7	1975	518	38° 39.2'	-59° 37.9'	5237.7	6.5	261	52553
17	7	1975	610	38° 38.3'	-59° 45.0'	5243.4	6.8	265	52566
17	7	1975	632	38° 38.1'	-59° 48.2'	5245.9	6.7	259	52623
17	7	1975	834	38° 35.4'	-60° 05.2'	5259.4	6.0	269	52680
17	7	1975	1016	38° 35.2'	-60° 18.3'	5269.7	4.7	265	52692
17	7	1975	1045	38° 35.0'	-60° 21.2'	5271.9	4.2	226	52687
17	7	1975	1150	38° 31.8'	-60° 25.4'	5276.5	4.7	242	52701
17	7	1975	1336	38° 27.9'	-60° 34.8'	5284.8	4.7	228	52698
17	7	1975	1422	38° 25.5'	-60° 38.2'	5288.4	4.5	236	52699
17	7	1975	1446	38° 24.5'	-60° 40.1'	5290.2	4.6	235	52702
17	7	1975	1610	38° 20.8'	-60° 46.9'	5296.7	5.6	241	52705
17	7	1975	1630	38° 19.9'	-60° 49.0'	5298.6	8.1	134	52639
17	7	1975	1724	38° 14.9'	-60° 42.3'	5305.8	8.7	132	52498
17	7	1975	1910	38° 04.5'	-60° 27.8'	5321.3	7.5	152	52475
17	7	1975	1930	38° 02.3'	-60° 26.3'	5323.8	7.3	173	52465
17	7	1975	1940	38° 01.1'	-60° 26.1'	5325.0	8.1	170	52346
17	7	1975	2126	37° 47.1'	-60° 22.9'	5339.2	9.4	168	52301
17	7	1975	2200	37° 41.9'	-60° 21.5'	5344.5	9.9	148	52189
17	7	1975	2312	37° 31.8'	-60° 13.6'	5356.4	8.0	160	52162
17	7	1975	2335	37° 28.9'	-60° 12.3'	5359.5	8.4	172	52147
17	7	1975	2348	37° 27.1'	-60° 12.0'	5361.3	9.1	172	52132
18	7	1975	000	37° 25.3'	-60° 11.7'	5363.1	8.8	172	52016
18	7	1975	134	37° 11.6'	-60° 09.3'	5376.9	9.2	175	51979
18	7	1975	204	37° 07.0'	-60° 08.8'	5381.6	8.4	139	51955
18	7	1975	222	37° 05.1'	-60° 06.7'	5384.1	7.6	130	51885
18	7	1975	322	37° 00.2'	-59° 59.5'	5391.6	9.8	227	51883
18	7	1975	330	36° 59.3'	-60° 00.7'	5393.0	11.6	321	51887
18	7	1975	332	36° 59.6'	-60° 01.0'	5393.3	10.6	295	51899
18	7	1975	340	37° 00.2'	-60° 02.6'	5394.8	8.4	329	51939
18	7	1975	410	37° 03.8'	-60° 05.3'	5399.0	10.0	332	52045
18	7	1975	518	37° 13.8'	-60° 11.9'	5410.3	9.2	348	52071
18	7	1975	538	37° 16.8'	-60° 12.7'	5413.3	8.7	26	52096
18	7	1975	617	37° 21.9'	-60° 09.6'	5419.0	6.8	28	52098
18	7	1975	620	37° 22.2'	-60° 09.4'	5419.3	0.0	252	52105
20	7	1975	2310	37° 21.4'	-60° 12.5'	5421.9	7.6	207	52097
20	7	1975	2325	37° 19.7'	-60° 13.6'	5423.8	10.5	206	52071
21	7	1975	000	37° 14.2'	-60° 17.0'	5430.0	10.5	207	51941
21	7	1975	250	36° 47.7'	-60° 33.7'	5459.6	10.0	205	51897
21	7	1975	346	36° 39.2'	-60° 38.6'	5469.0	9.2	202	51852
21	7	1975	442	36° 31.2'	-60° 42.6'	5477.6	9.2	207	51826

TABLE 1 - *Continued*

Day	Mon	Year	Time ^a	Latitude	Longitude	Distance (n. mi.)	Speed (kt)	Course	Regional Mag
21	7	1975	520	36° 26.0'	-60° 45.9'	5483.4	8.6	206	51779
21	7	1975	630	36° 17.0'	-60° 51.3'	5493.4	8.9	207	51753
21	7	1975	708	36° 12.0'	-60° 54.5'	5499.1	9.3	205	51697
21	7	1975	822	36° 01.6'	-61° 00.5'	5510.5	8.9	208	51626
21	7	1975	1008	35° 47.7'	-61° 09.5'	5526.2	8.9	210	51547
21	7	1975	1210	35° 31.9'	-61° 20.6'	5544.4	8.6	207	51517
21	7	1975	1254	35° 26.3'	-61° 24.1'	5550.7	8.3	210	51421
21	7	1975	1530	35° 07.6'	-61° 37.3'	5572.3	8.4	211	51358
21	7	1975	1716	34° 54.9'	-61° 46.8'	5587.2	8.2	212	51343
21	7	1975	1742	34° 51.9'	-61° 49.1'	5590.7	8.3	213	51322
21	7	1975	1820	34° 47.5'	-61° 52.6'	5596.0	8.0	210	51256
21	7	1975	2008	34° 35.1'	-62° 01.4'	5610.3	8.6	214	51216
21	7	1975	2118	34° 26.8'	-62° 08.3'	5620.4	8.7	213	51154
21	7	1975	2300	34° 14.4'	-62° 18.1'	5635.2	9.0	228	51152
21	7	1975	2306	34° 13.8'	-62° 18.9'	5636.1	9.4	233	51143
22	7	1975	000	34° 08.7'	-62° 27.0'	5644.5	9.6	231	51142
22	7	1975	006	34° 08.1'	-62° 27.9'	5645.5	9.6	230	51130
22	7	1975	056	34° 03.0'	-62° 35.3'	5653.4	10.2	234	51122
22	7	1975	152	33° 57.4'	-62° 44.6'	5663.0	9.7	230	51115
22	7	1975	220	33° 54.5'	-62° 48.8'	5667.5	9.5	225	51078
22	7	1975	354	33° 44.0'	-63° 01.5'	5682.4	9.2	215	51061
22	7	1975	422	33° 40.5'	-63° 04.5'	5686.7	10.9	227	51030
22	7	1975	538	33° 31.1'	-63° 16.6'	5700.5	9.1	214	50931
22	7	1975	804	33° 12.7'	-63° 31.3'	5722.6	8.6	215	50888
22	7	1975	912	33° 04.7'	-63° 37.9'	5732.3	9.1	219	50869
22	7	1975	945	33° 00.8'	-63° 41.7'	5737.3	9.2	229	50845
22	7	1975	1100	32° 53.3'	-63° 52.1'	5748.9	9.1	229	50838
22	7	1975	1122	32° 51.1'	-63° 55.1'	5752.2	8.6	229	50804
22	7	1975	1308	32° 41.1'	-64° 08.6'	5767.3	9.3	233	50794
22	7	1975	1352	32° 37.0'	-64° 15.1'	5774.2	8.1	227	50782
22	7	1975	1426	32° 33.9'	-64° 19.1'	5778.7	0.4	236	50763
24	7	1975	1155	32° 24.8'	-64° 34.8'	5794.8	7.0	166	50746
24	7	1975	1210	32° 23.1'	-64° 34.3'	5796.6	9.9	166	50636
24	7	1975	1318	32° 12.2'	-64° 31.2'	5807.8	7.6	164	50457
24	7	1975	1540	31° 55.0'	-64° 25.3'	5825.7	7.5	170	50355
24	7	1975	1704	31° 44.7'	-64° 23.2'	5836.1	7.5	168	50328
24	7	1975	1726	31° 42.0'	-64° 22.5'	5838.9	8.1	168	50213
24	7	1975	1852	31° 30.6'	-64° 19.7'	5850.5	8.0	171	50176
24	7	1975	1920	31° 26.9'	-64° 19.0'	5854.3	7.8	174	50099
24	7	1975	2022	31° 18.9'	-64° 18.0'	5862.3	9.6	167	50062
24	7	1975	2045	31° 15.3'	-64° 17.0'	5866.0	9.8	156	50000
24	7	1975	2122	31° 09.8'	-64° 14.1'	5872.1	6.6	155	49986
24	7	1975	2135	31° 08.5'	-64° 13.4'	5873.5	6.6	335	50016
24	7	1975	2202	31° 11.2'	-64° 14.9'	5876.5	0.0	90	50015
31	7	1975	2053	31° 11.2'	-64° 14.9'	5876.5	9.0	323	50077
31	7	1975	2134	31° 16.1'	-64° 19.2'	5882.6	12.1	291	50194
31	7	1975	2250	31° 21.7'	-64° 35.9'	5897.9	12.2	289	50299
1	8	1975	000	31° 26.4'	-64° 51.6'	5912.1	12.0	289	50357
1	8	1975	040	31° 29.0'	-65° 00.5'	5920.2	9.6	285	50550
1	8	1975	340	31° 36.5'	-65° 33.0'	5948.9	7.8	280	50681
1	8	1975	630	31° 40.3'	-65° 58.5'	5970.9	7.7	275	50780
1	8	1975	900	31° 42.0'	-66° 21.0'	5990.1	9.6	297	50896
1	8	1975	1030	31° 48.6'	-66° 36.1'	6004.6	9.8	305	51077
1	8	1975	1236	32° 00.4'	-66° 56.1'	6025.2	8.8	295	51145
1	8	1975	1336	32° 04.1'	-67° 05.5'	6034.0	9.1	297	51360
1	8	1975	1635	32° 16.6'	-67° 34.1'	6061.3	6.1	299	51375
1	8	1975	1653	32° 17.5'	-67° 36.0'	6063.1	9.2	296	51402
1	8	1975	1715	32° 19.0'	-67° 39.6'	6066.5	5.9	301	51405
1	8	1975	1719	32° 19.2'	-67° 40.0'	6066.9	0.0	90	51404
7	8	1975	1219	32° 19.2'	-67° 40.0'	6066.9	6.9	303	51412

TABLE 1 – *Continued*

Day	Mon	Year	Time ^a	Latitude	Longitude	Distance (n. mi.)	Speed (kt)	Course	Regional Mag
7	8	1975	1227	32°19.7'	-67°40.9'	6067.8	9.5	299	51517
7	8	1975	1350	32°26.1'	-67°54.5'	6080.9	10.4	55	51557
7	8	1975	1600	32°39.0'	-67°32.5'	6103.5	8.7	57	51558
7	8	1975	1609	32°39.7'	-67°31.2'	6104.8	10.1	204	51440
7	8	1975	1755	32°23.3'	-67°39.7'	6122.7	6.7	206	51425
7	8	1975	1816	32°21.2'	-67°40.9'	6125.1	10.2	203	51409
7	8	1975	1830	32°19.0'	-67°42.0'	6127.4	9.3	200	51286
7	8	1975	2020	32°02.9'	-67°48.9'	6144.6	9.7	54	51341
7	8	1975	2314	32°19.4'	-67°21.8'	6172.8	9.9	325	51416
8	8	1975	000	32°25.6'	-67°27.0'	6180.4	9.3	233	51411
8	8	1975	015	32°24.2'	-67°29.2'	6182.7	9.7	251	51414
8	8	1975	030	32°23.4'	-67°31.9'	6185.2	9.4	232	51403
8	8	1975	100	32°20.5'	-67°36.3'	6189.9	6.6	233	51382
8	8	1975	225	32°14.8'	-67°45.1'	6199.2	9.5	232	51361
8	8	1975	319	32°09.5'	-67°53.0'	6207.8	9.9	327	51412
8	8	1975	350	32°13.8'	-67°56.3'	6212.9	9.7	55	51475
8	8	1975	736	32°34.6'	-67°20.7'	6249.5	9.4	108	51352
8	8	1975	930	32°29.0'	-67°00.5'	6267.4	8.4	110	51195
8	8	1975	1208	32°21.5'	-66°36.0'	6289.4	8.1	107	51181
8	8	1975	1223	32°20.9'	-66°33.7'	6291.4	6.8	106	51038
8	8	1975	1530	32°15.0'	-66°09.5'	6312.7	8.0	110	50934
8	8	1975	1718	32°10.1'	-65°53.6'	6327.0	8.1	124	50920
8	8	1975	1730	32°09.2'	-65°52.0'	6328.6	6.5	119	50839
8	8	1975	1900	32°04.5'	-65°42.0'	6338.3	8.2	126	50784
8	8	1975	1945	32°00.9'	-65°36.1'	6344.5	9.4	125	50607
8	8	1975	2151	31°49.5'	-65°17.0'	6364.3	9.0	124	50451
8	8	1975	2349	31°39.6'	-64°59.8'	6382.0	11.9	240	50451
8	8	1975	2350	31°39.5'	-65°00.0'	6382.2	7.7	247	50451
9	8	1975	000	31°39.0'	-65°01.4'	6383.5	7.8	250	50481
9	8	1975	340	31°29.0'	-65°33.0'	6412.2	10.0	246	50489
9	8	1975	613	31°18.7'	-66°00.4'	6437.7	9.6	301	50754
9	8	1975	930	31°34.8'	-66°32.0'	6469.1	9.9	309	51215
9	8	1975	1437	32°07.0'	-67°18.0'	6519.8	9.4	302	51325
9	8	1975	1600	32°14.0'	-67°31.0'	6532.8	10.2	297	51445
9	8	1975	1730	32°21.0'	-67°47.0'	6548.0	9.7	308	51531
9	8	1975	1830	32°27.0'	-67°56.0'	6557.7	9.0	303	51942
10	8	1975	000	32°54.0'	-68°45.0'	6607.0	10.0	303	52511
10	8	1975	700	33°32.0'	-69°55.0'	6676.8	6.3	312	52650
10	8	1975	930	33°42.6'	-70°08.9'	6692.5	6.8	305	53006
10	8	1975	1600	34°07.7'	-70°52.5'	6736.6	9.0	302	53214
10	8	1975	1900	34°22.0'	-71°20.0'	6763.4	8.8	305	53557
11	8	1975	000	34°46.8'	-72°03.8'	6807.2	8.7	305	53628
11	8	1975	103	34°52.0'	-72°13.0'	6816.4	10.6	302	53810
11	8	1975	320	35°05.0'	-72°38.0'	6840.6	7.9	314	53942
11	8	1975	520	35°16.0'	-72°52.0'	6856.5	7.7	300	54041
11	8	1975	708	35°22.9'	-73°06.8'	6870.4	5.8	302	54042
11	8	1975	710	35°23.0'	-73°07.0'	6870.6	5.6	334	54052
11	8	1975	722	35°24.0'	-73°07.6'	6871.7	7.3	326	54059
11	8	1975	728	35°24.6'	-73°08.1'	6872.4	7.0	328	54217
11	8	1975	1000	35°39.6'	-73°19.7'	6890.1	7.9	325	54508
11	8	1975	1415	36°07.0'	-73°43.5'	6923.6	7.4	314	54612
11	8	1975	1600	36°16.0'	-73°55.0'	6936.6	11.6	296	54621
11	8	1975	1607	36°16.6'	-73°56.5'	6937.9	10.8	297	54756
11	8	1975	1800	36°26.0'	-74°19.0'	6958.3	7.1	309	54864
11	8	1975	2000	36°35.0'	-74°32.7'	6972.6	5.3	313	54895
11	8	1975	2045	36°37.7'	-74°36.3'	6976.5	5.0	302	54938
11	8	1975	2200	36°41.0'	-74°43.0'	6982.8			54938

^aAll times are Greenwich Mean Time (Z).

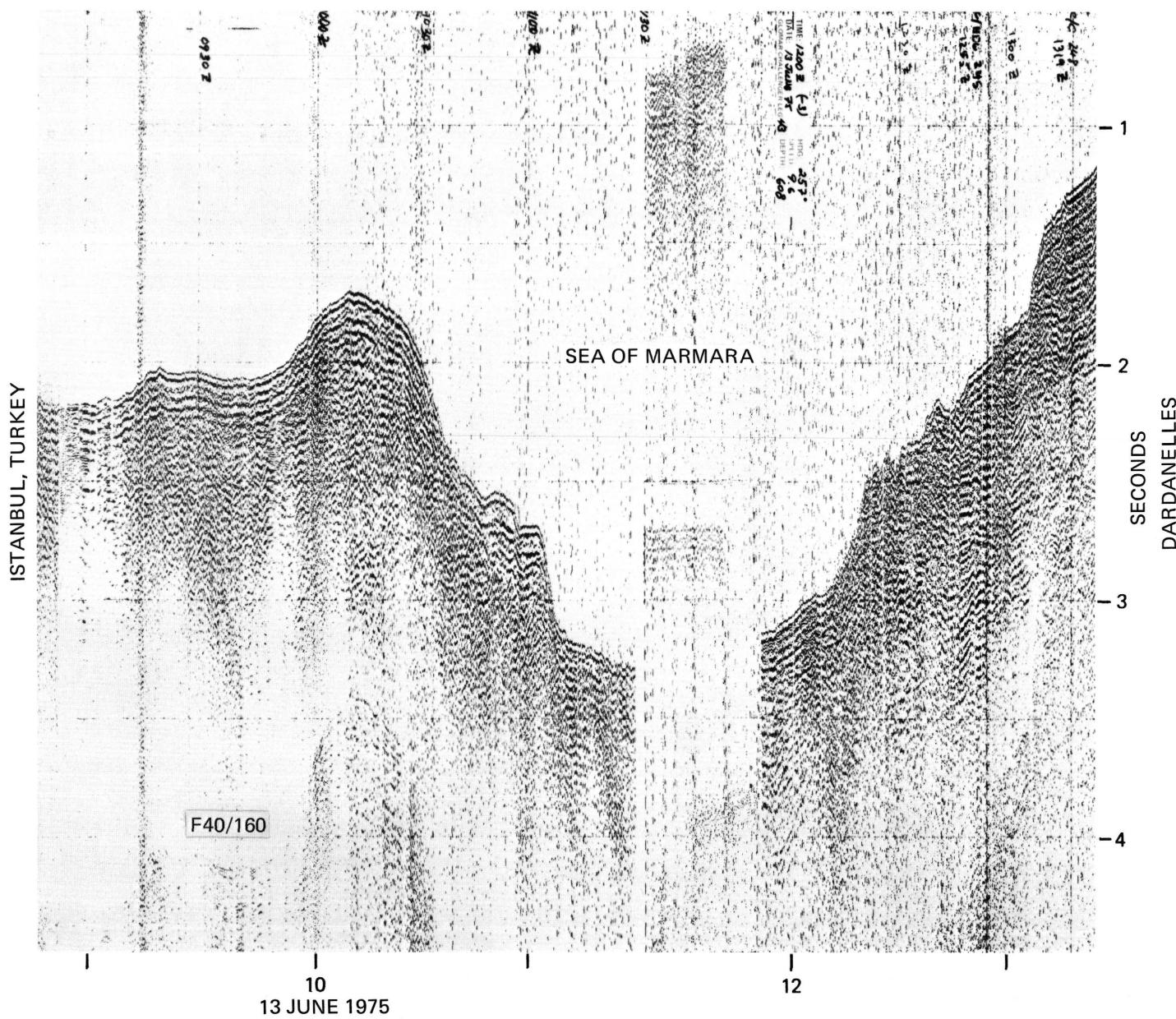


Figure 2. Glomar Challenger seismic profiles along Leg 43 track (see text for explanation of annotations).

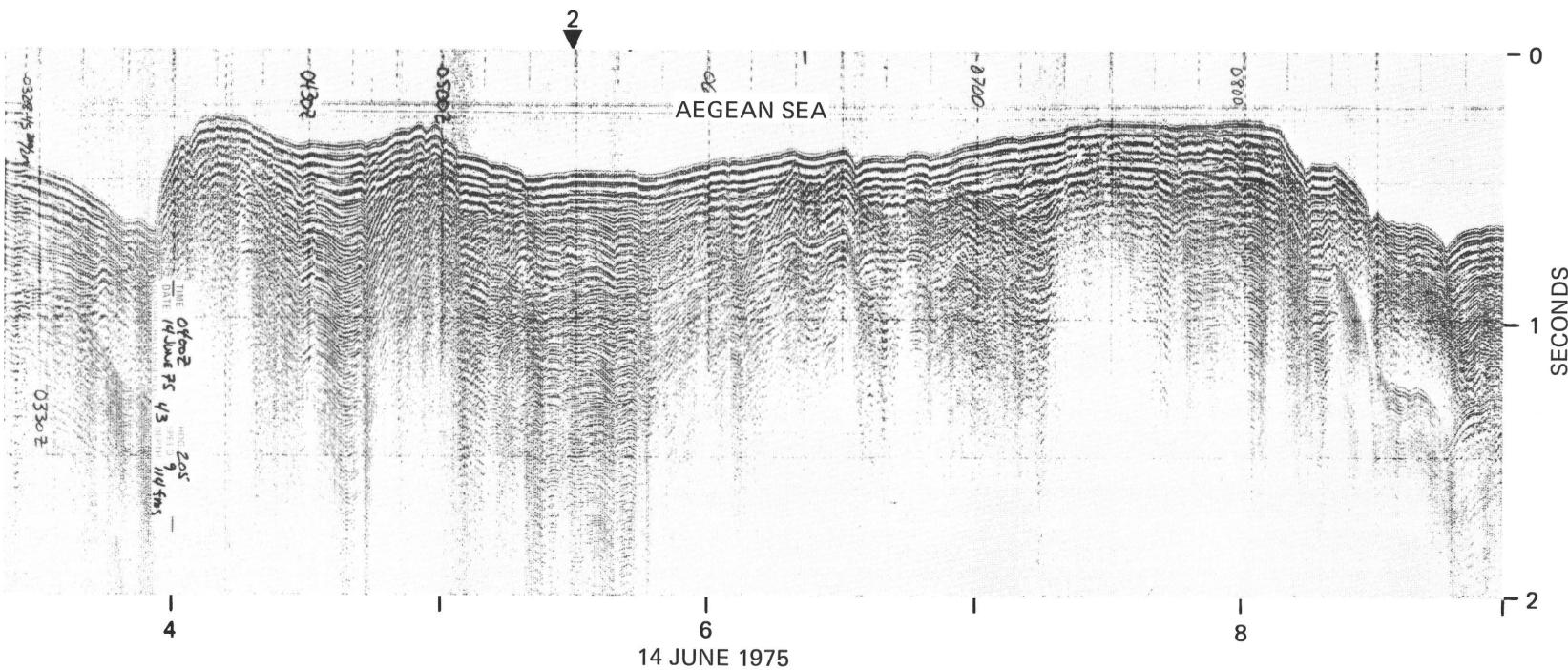


Figure 2. (Continued).

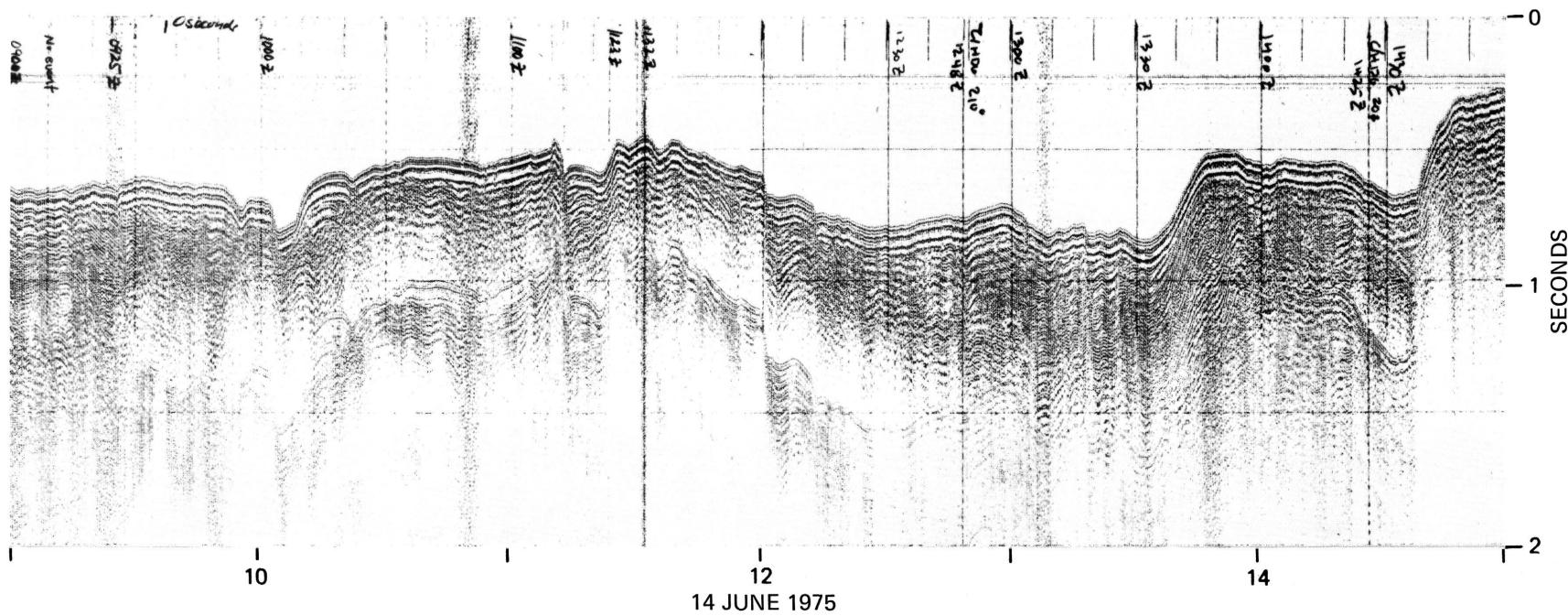


Figure 2. (Continued).

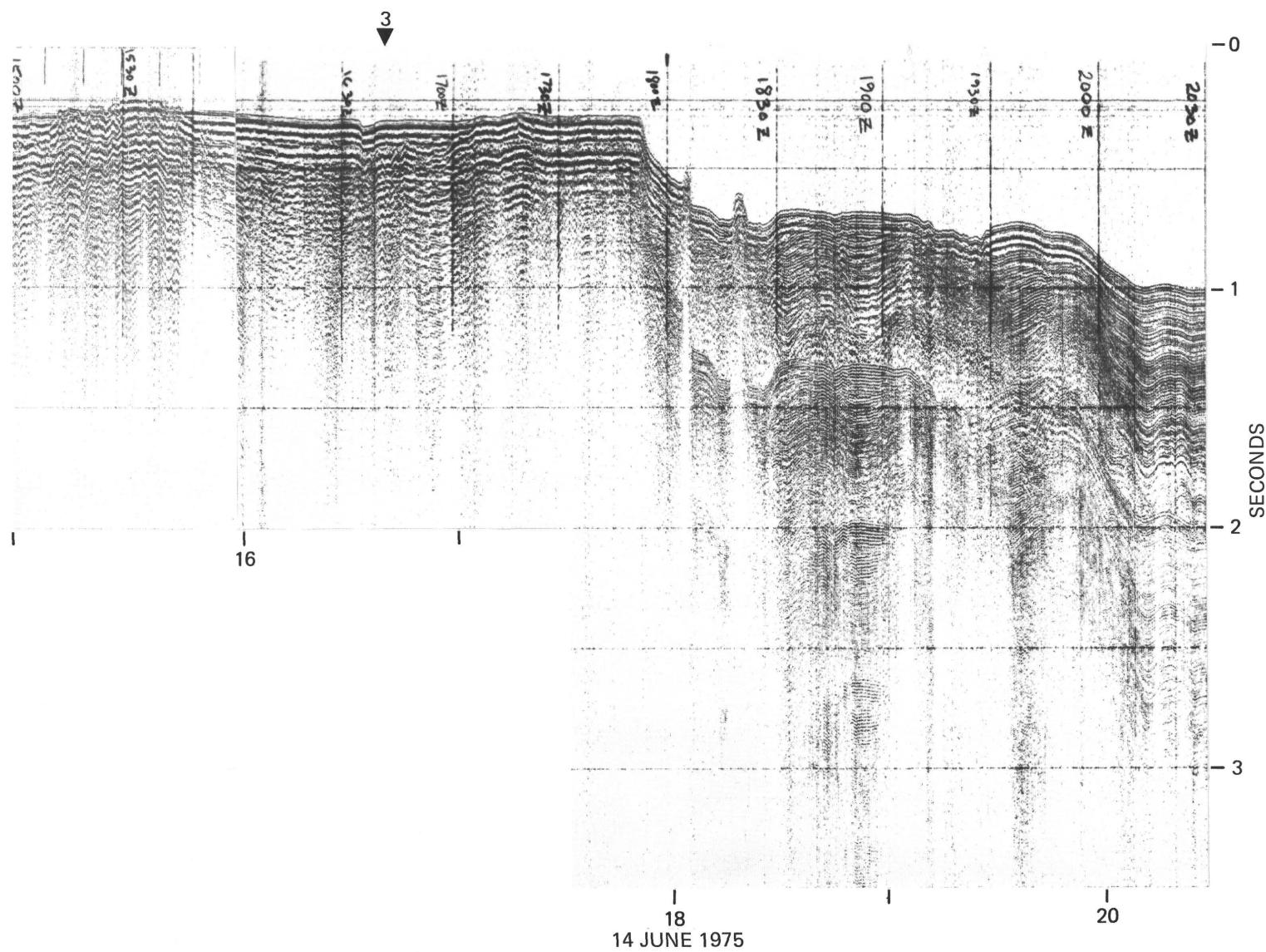


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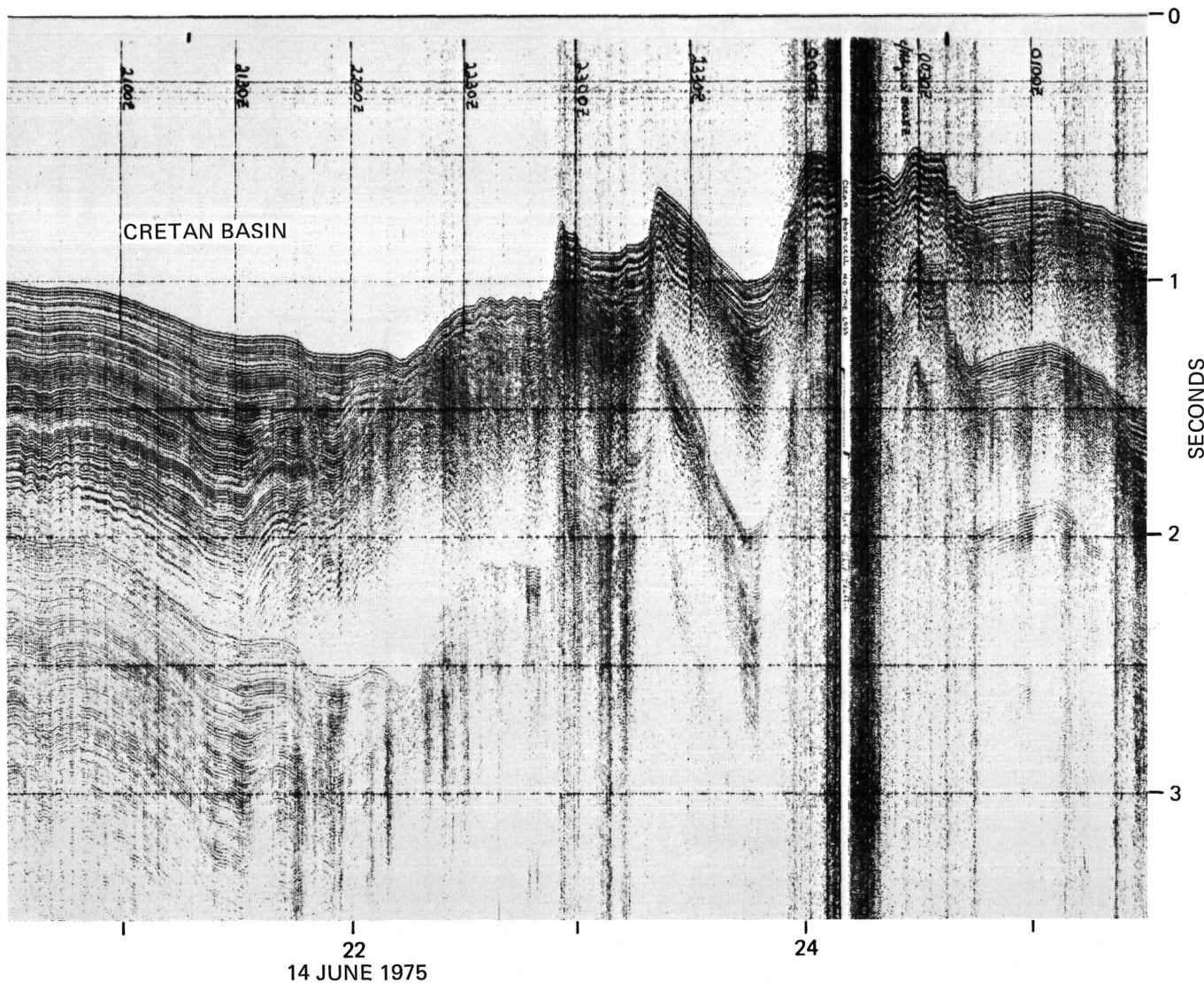


Figure 2. (*Continued*).

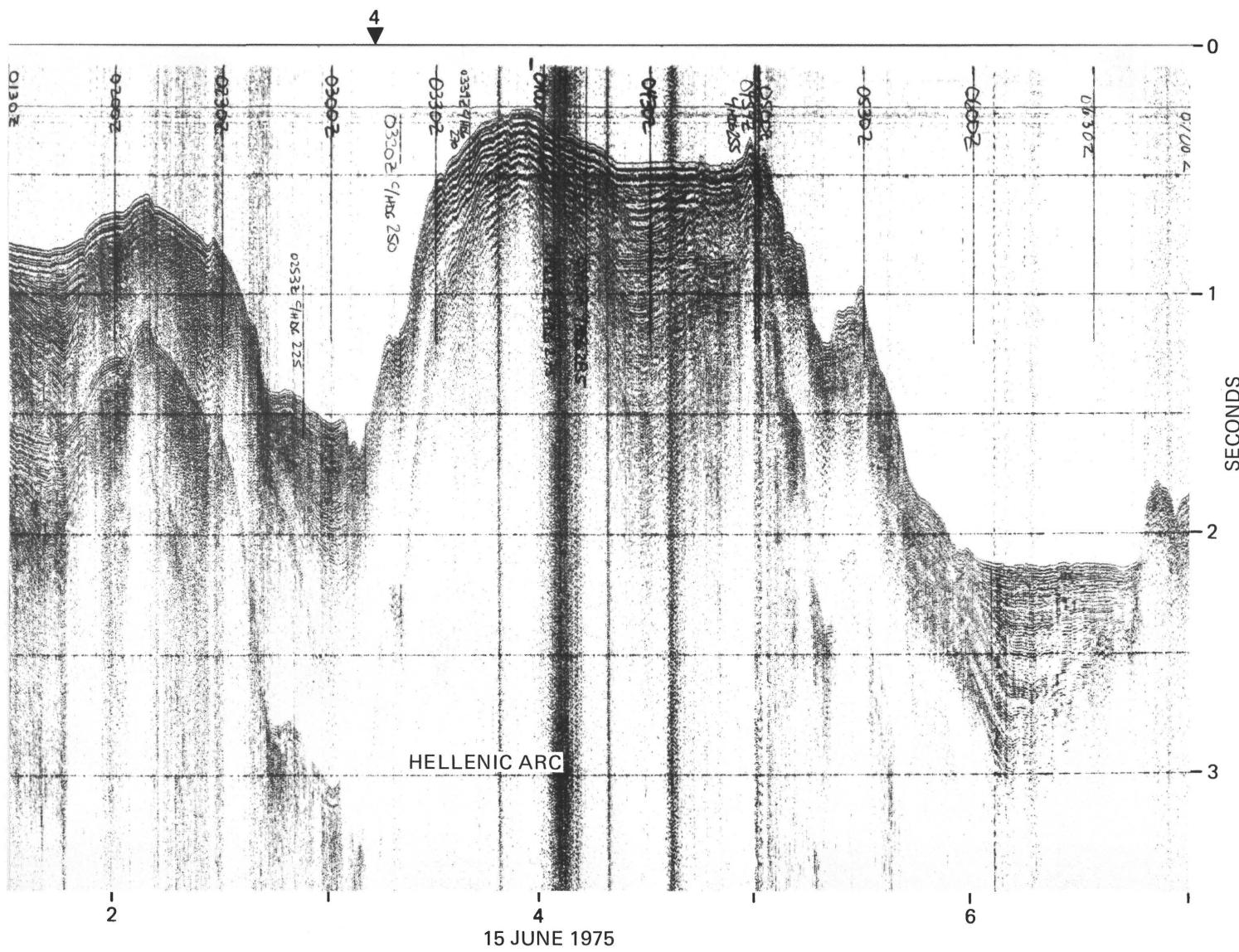


Figure 2. (Continued).

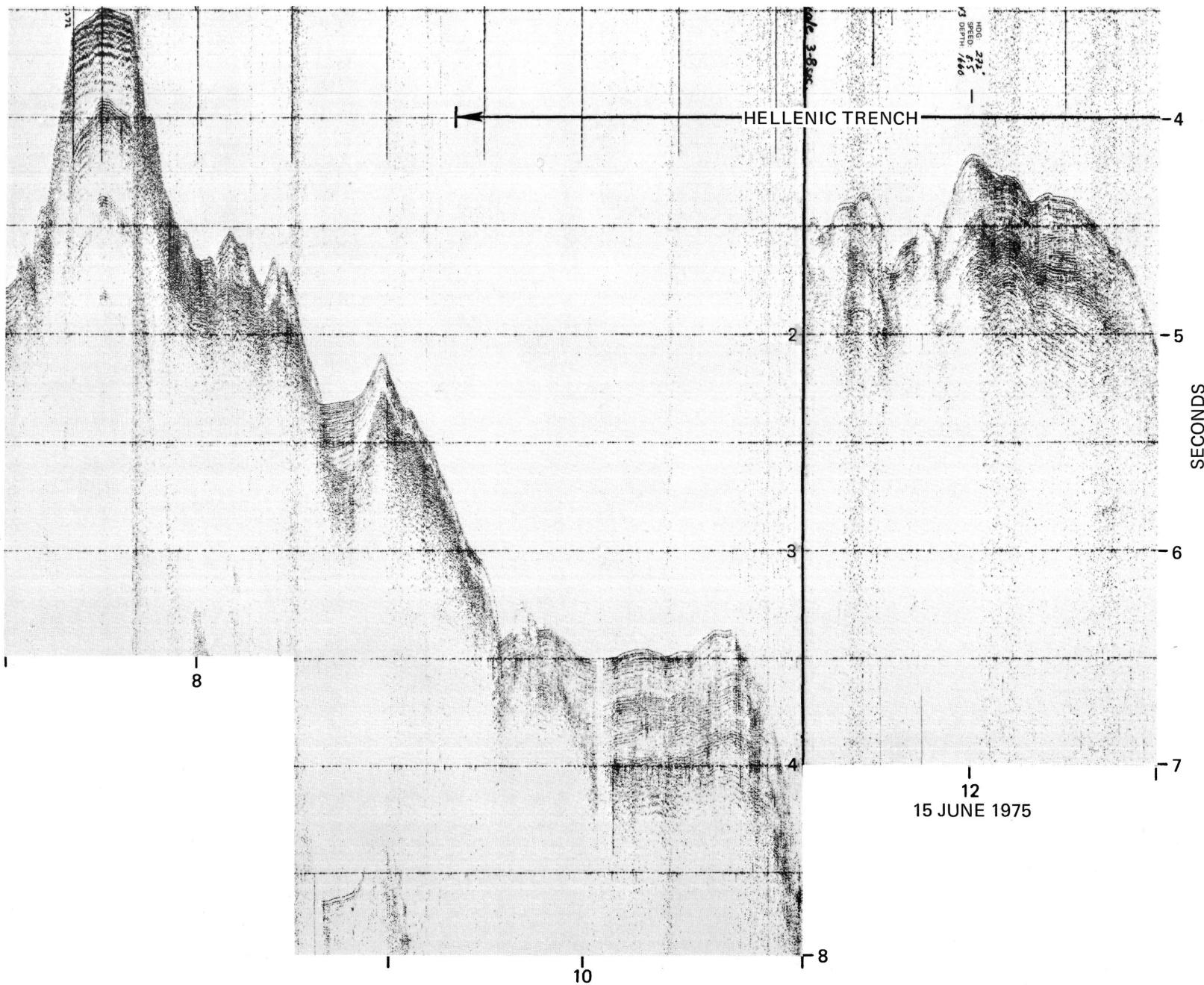


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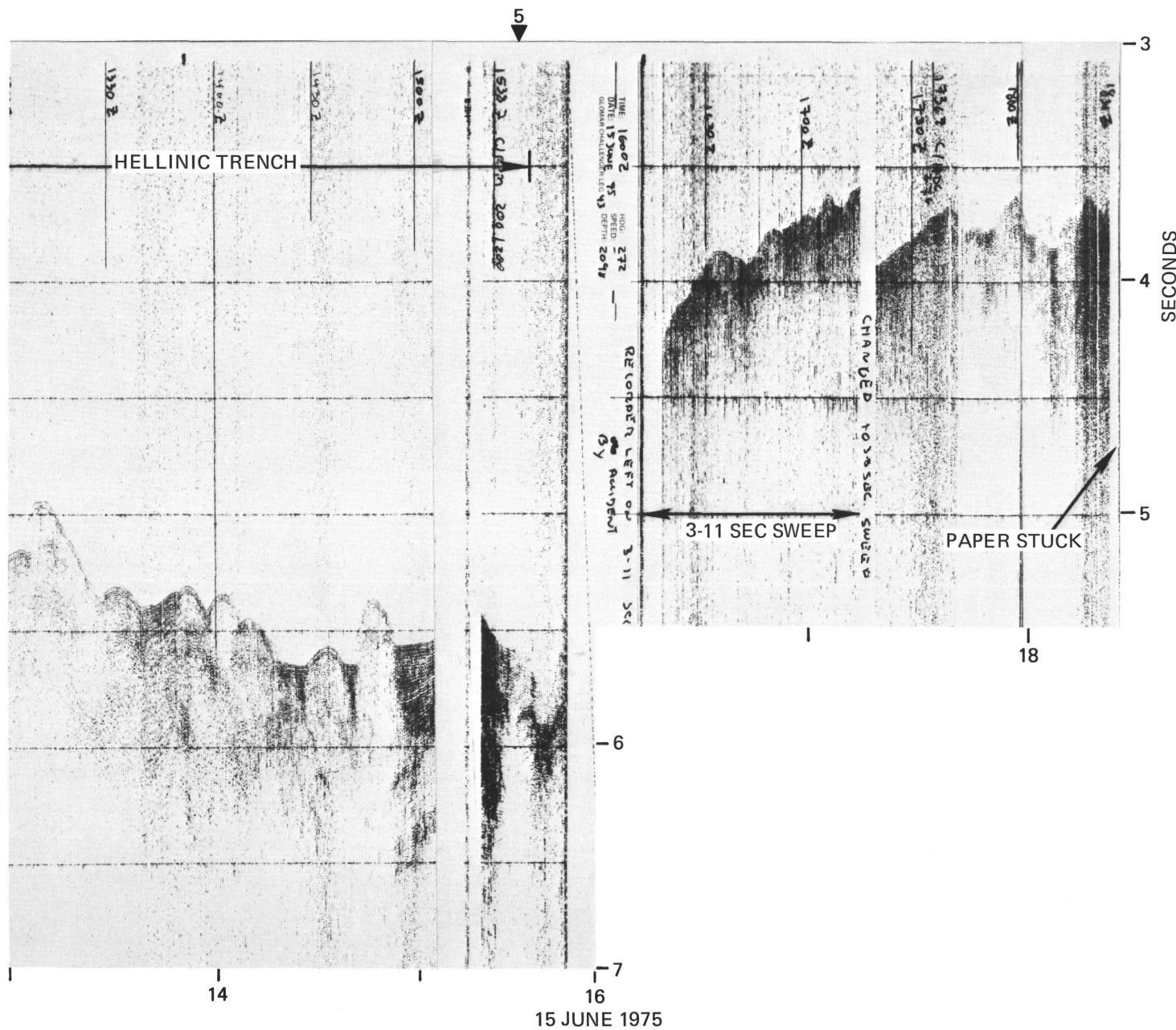


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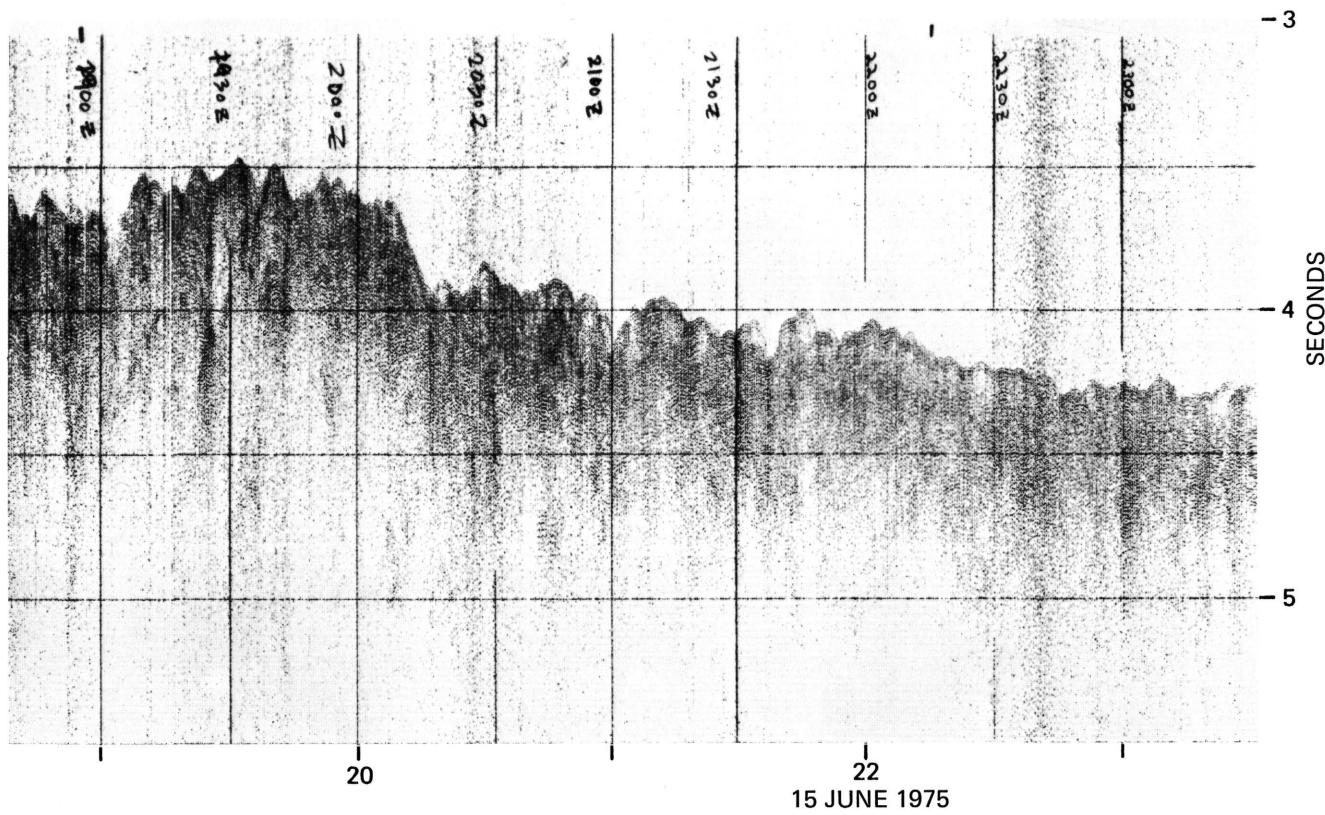


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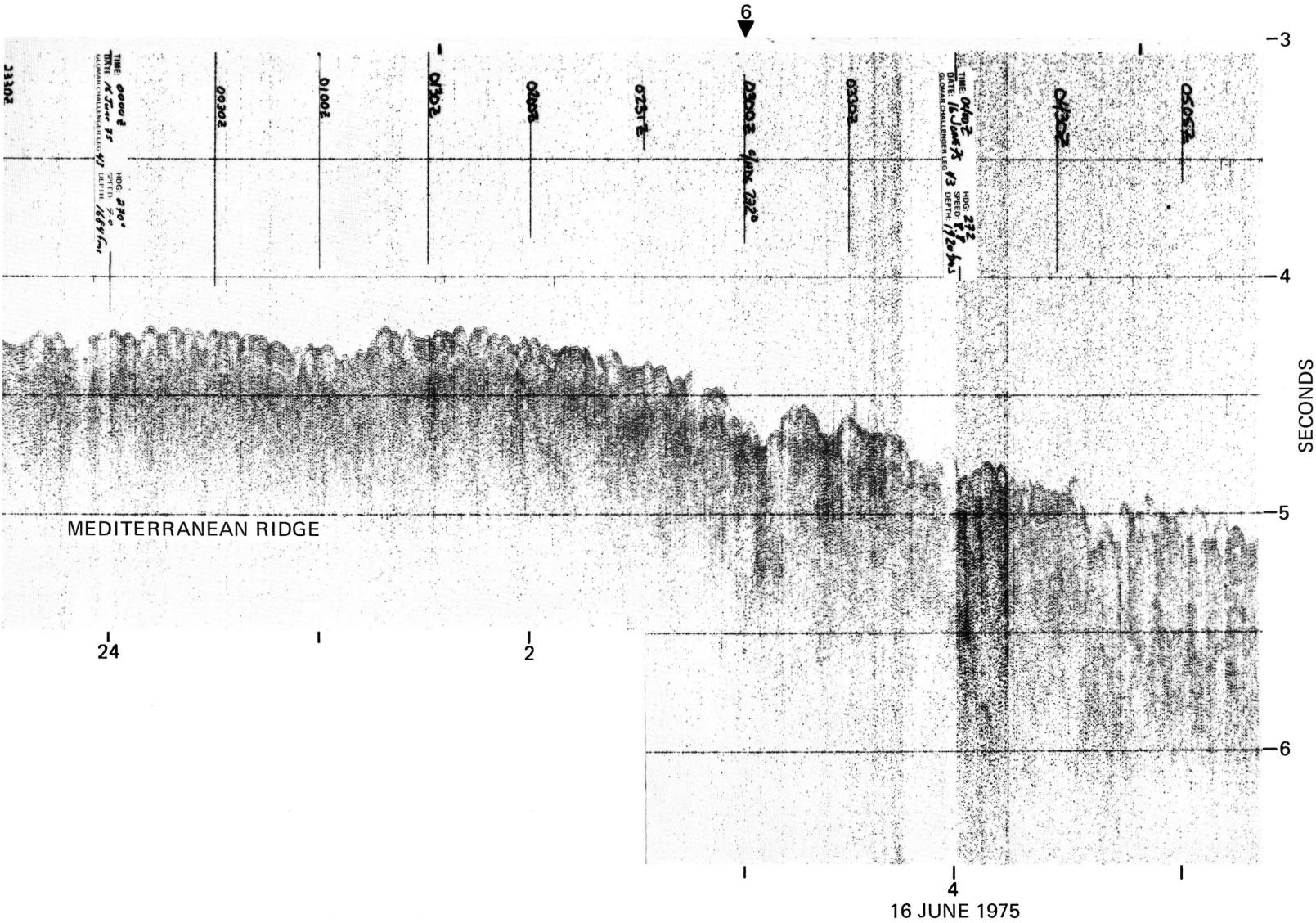


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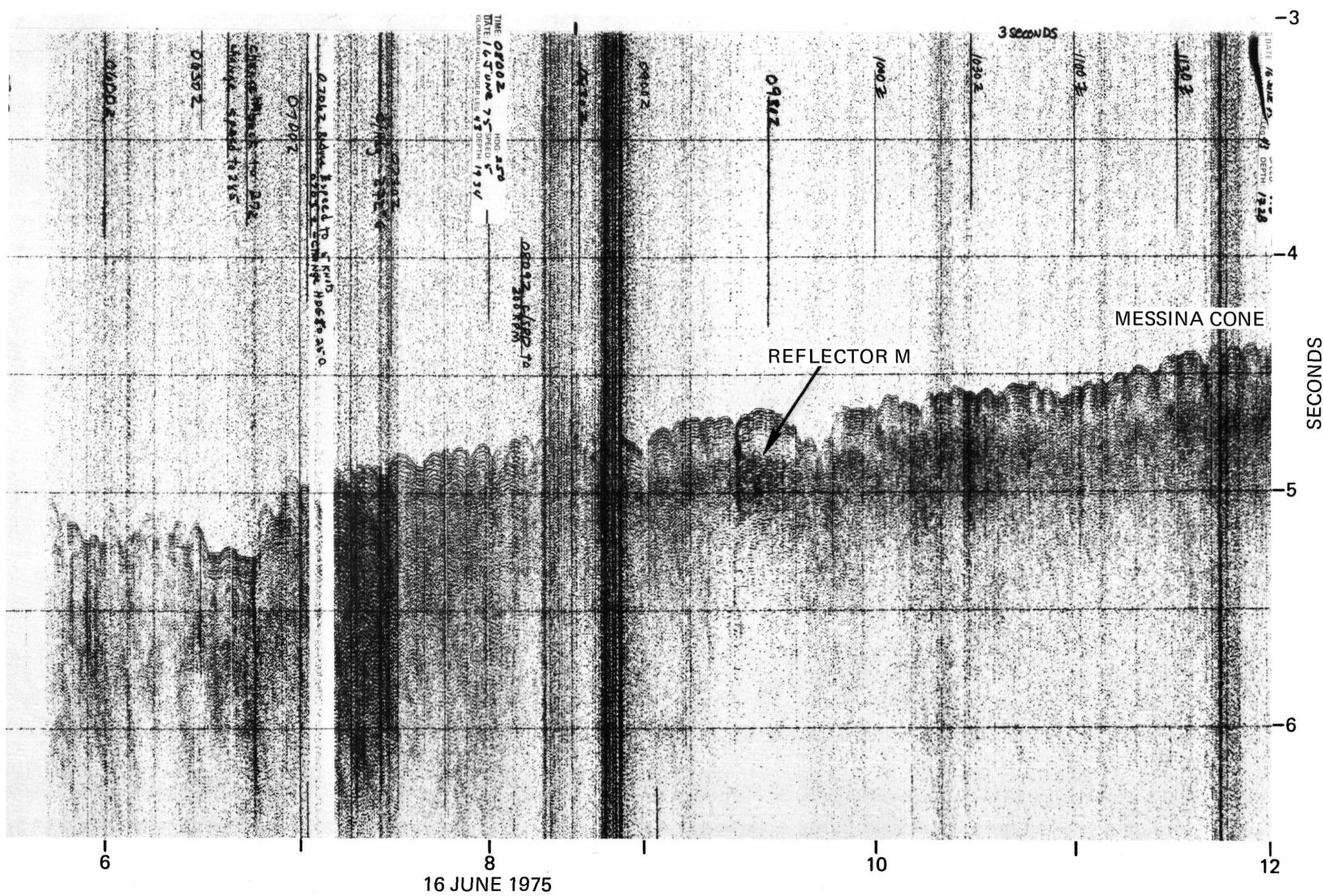


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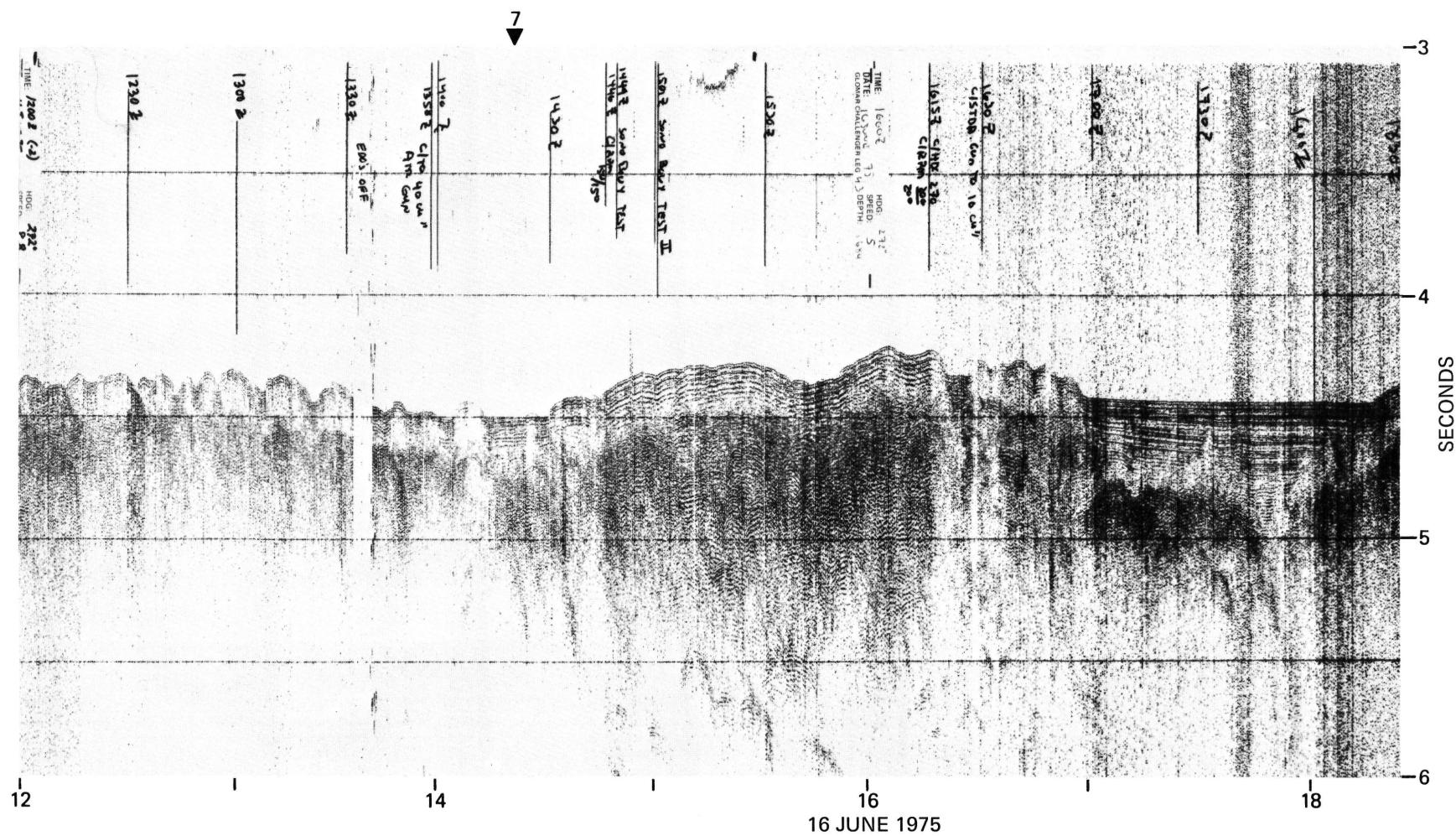


Figure 2. (Continued).

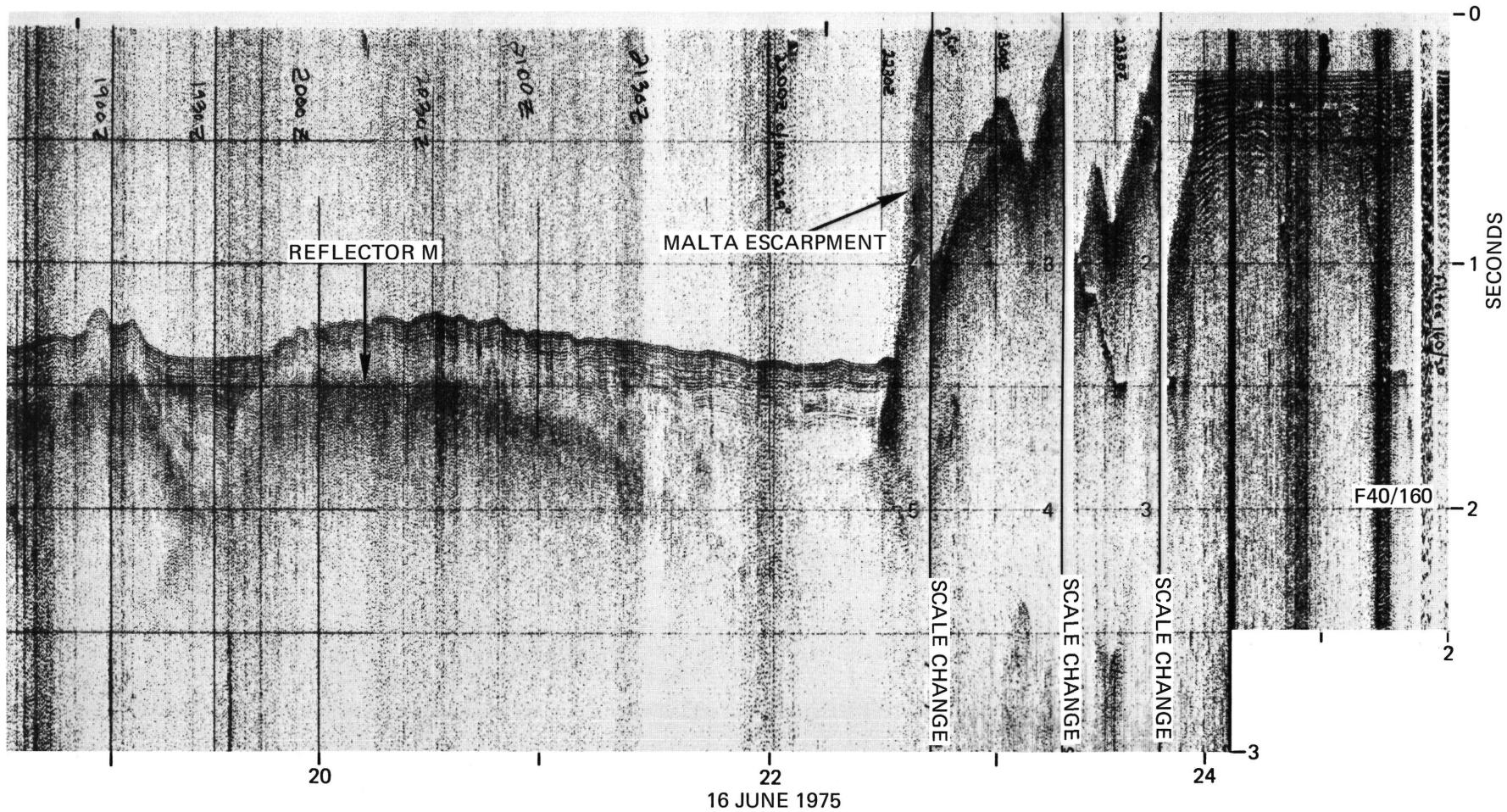


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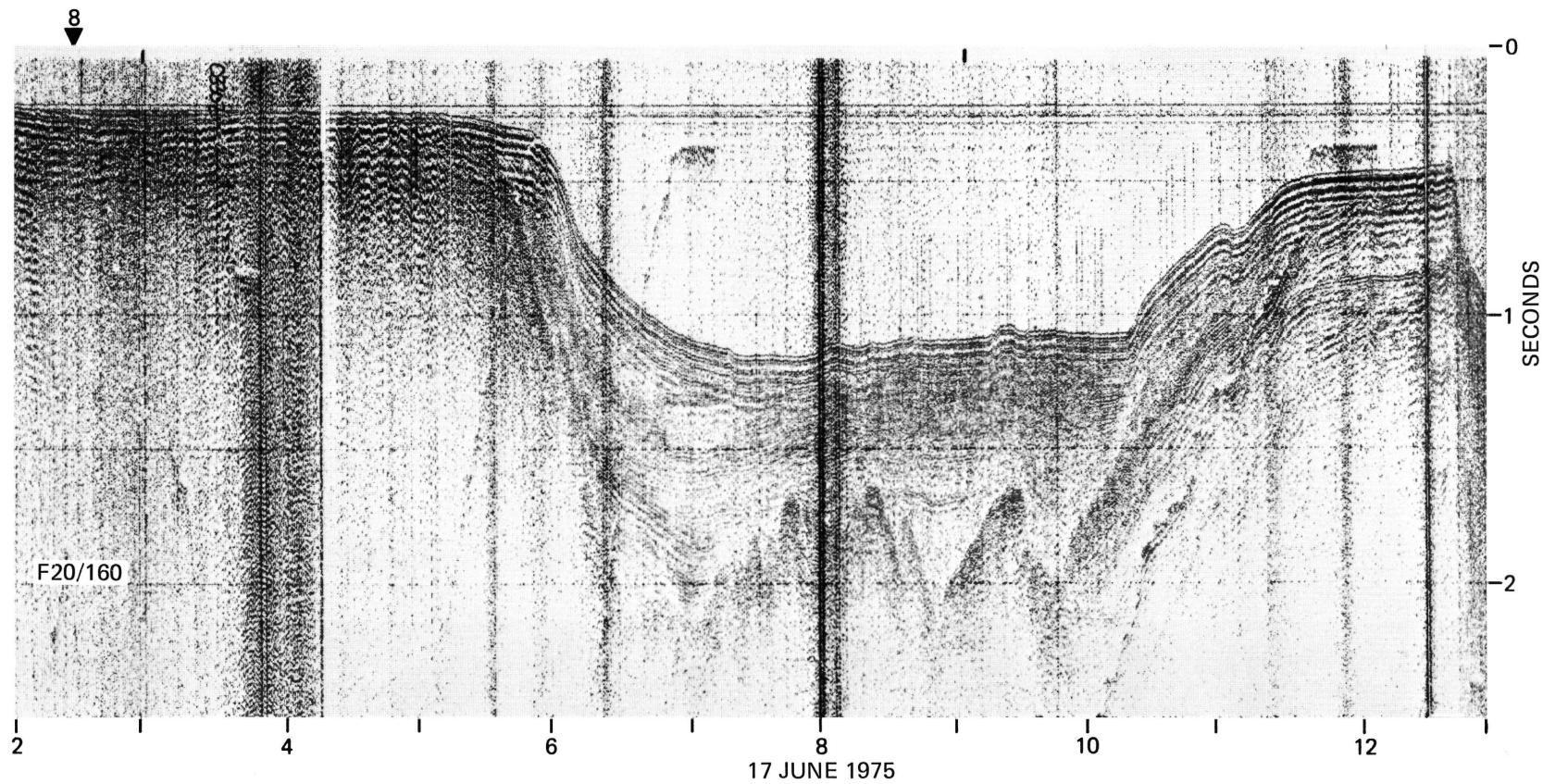


Figure 2. (Continued).

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SECONDS

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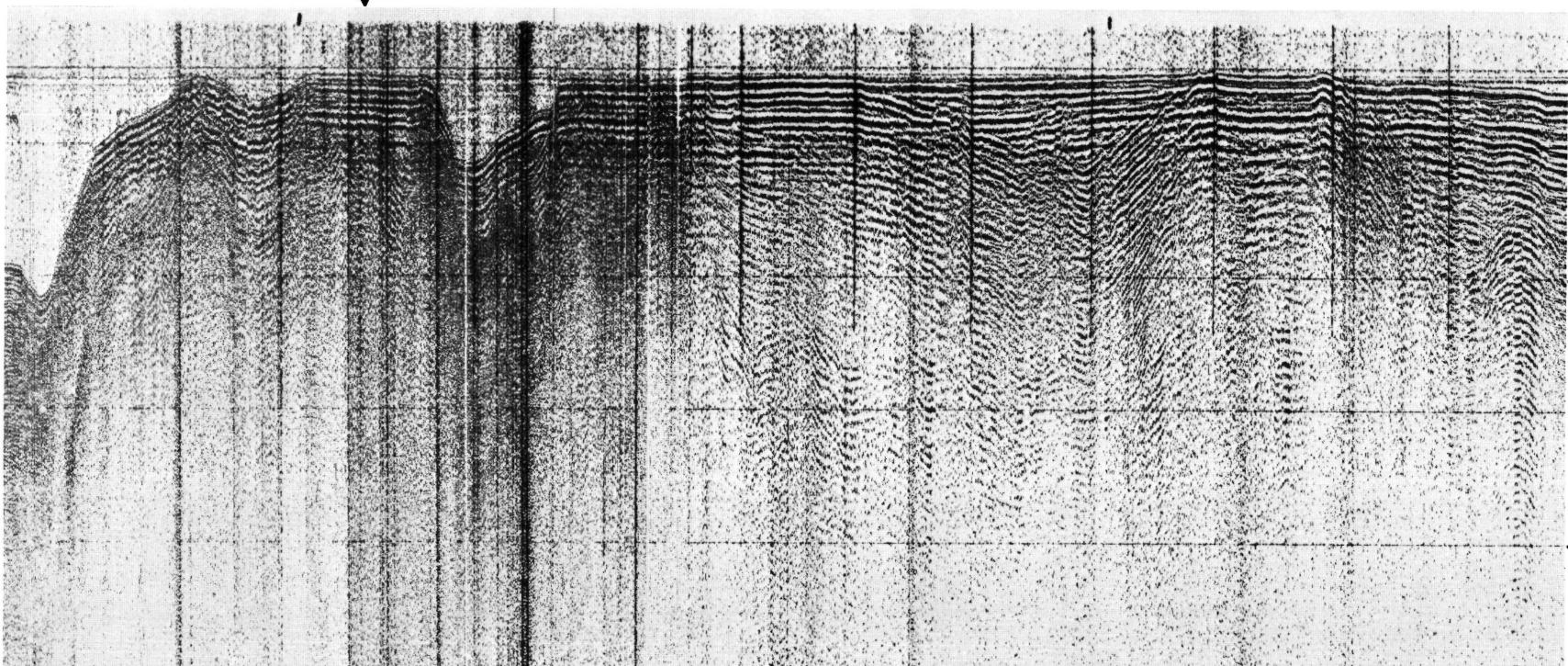


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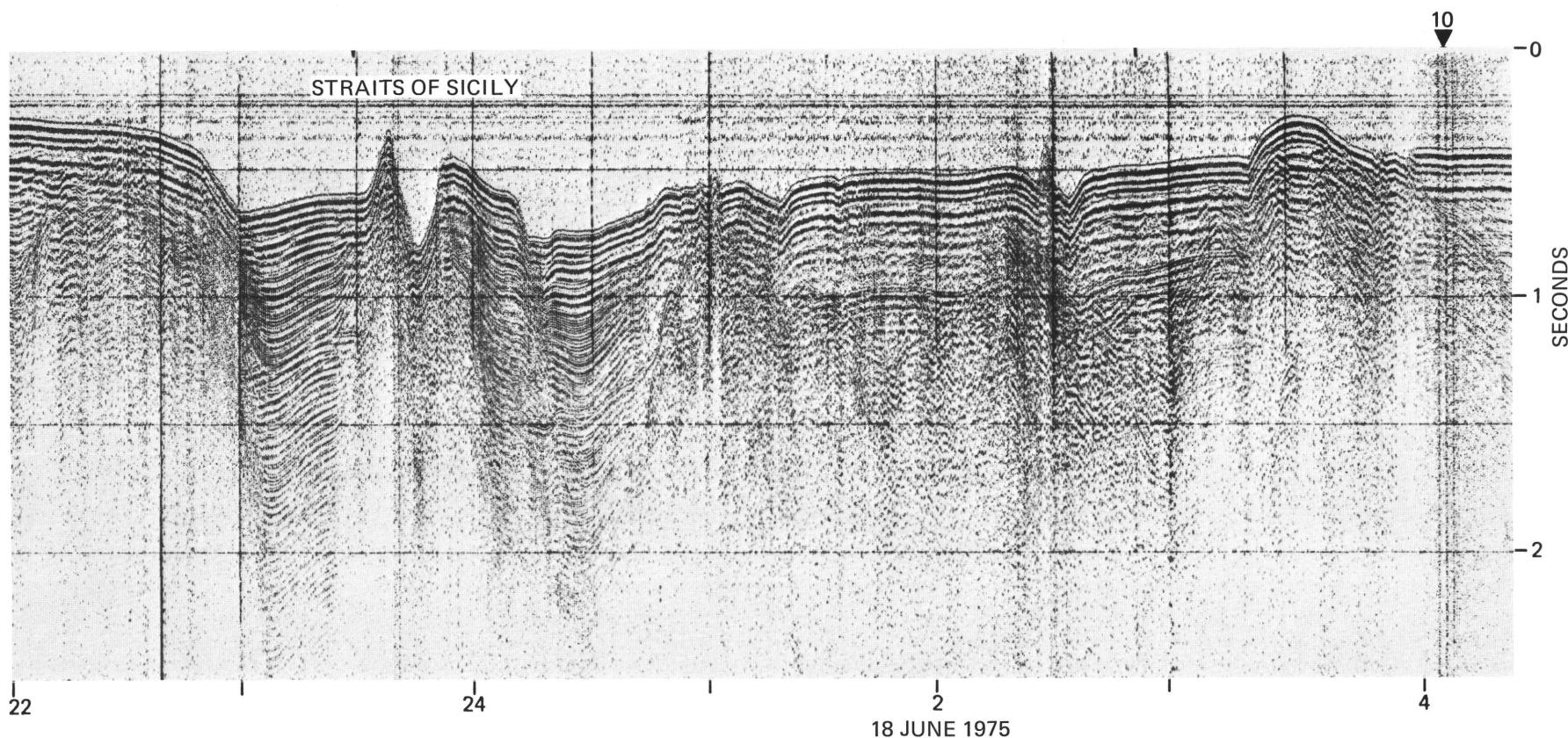


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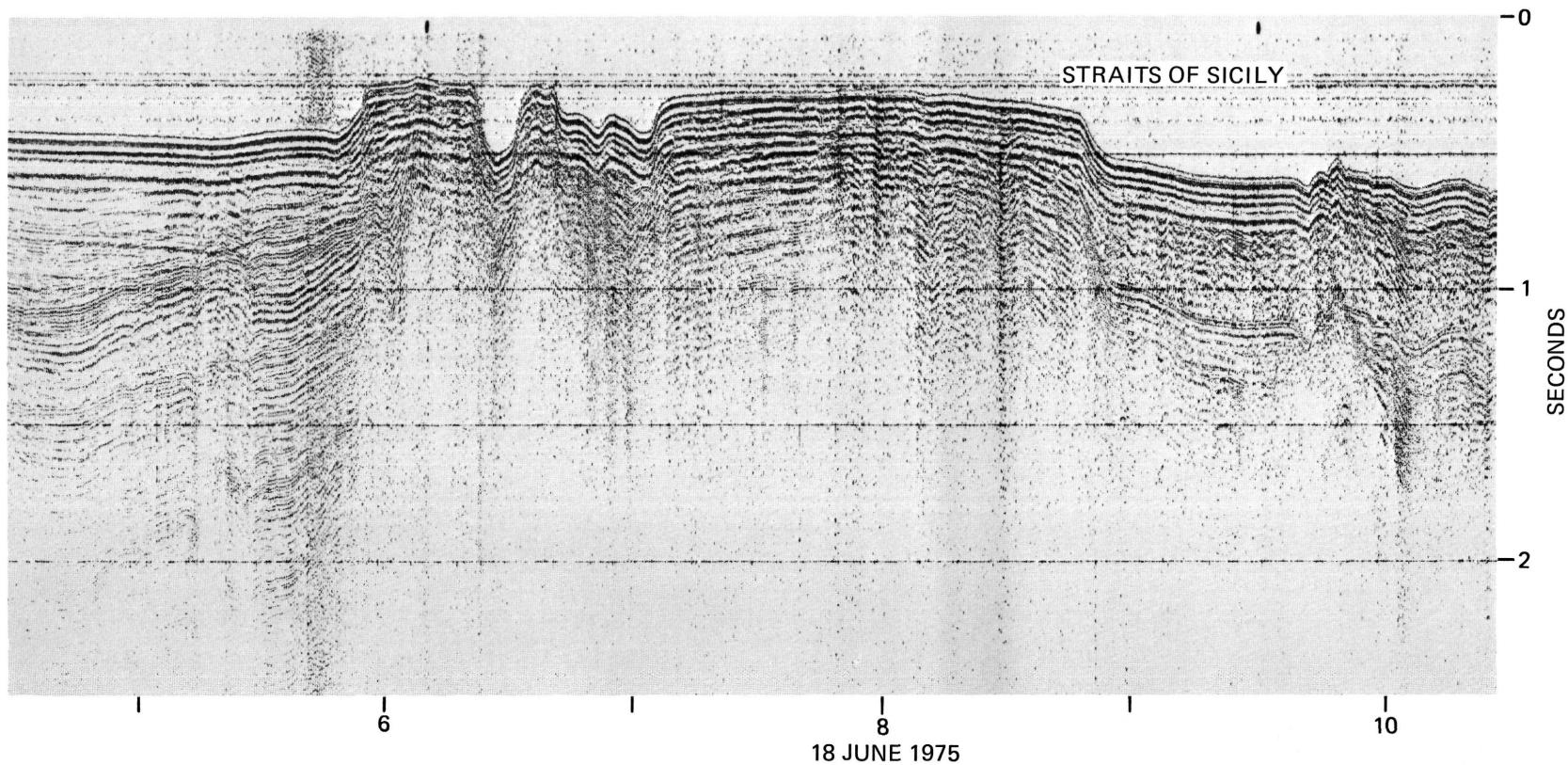


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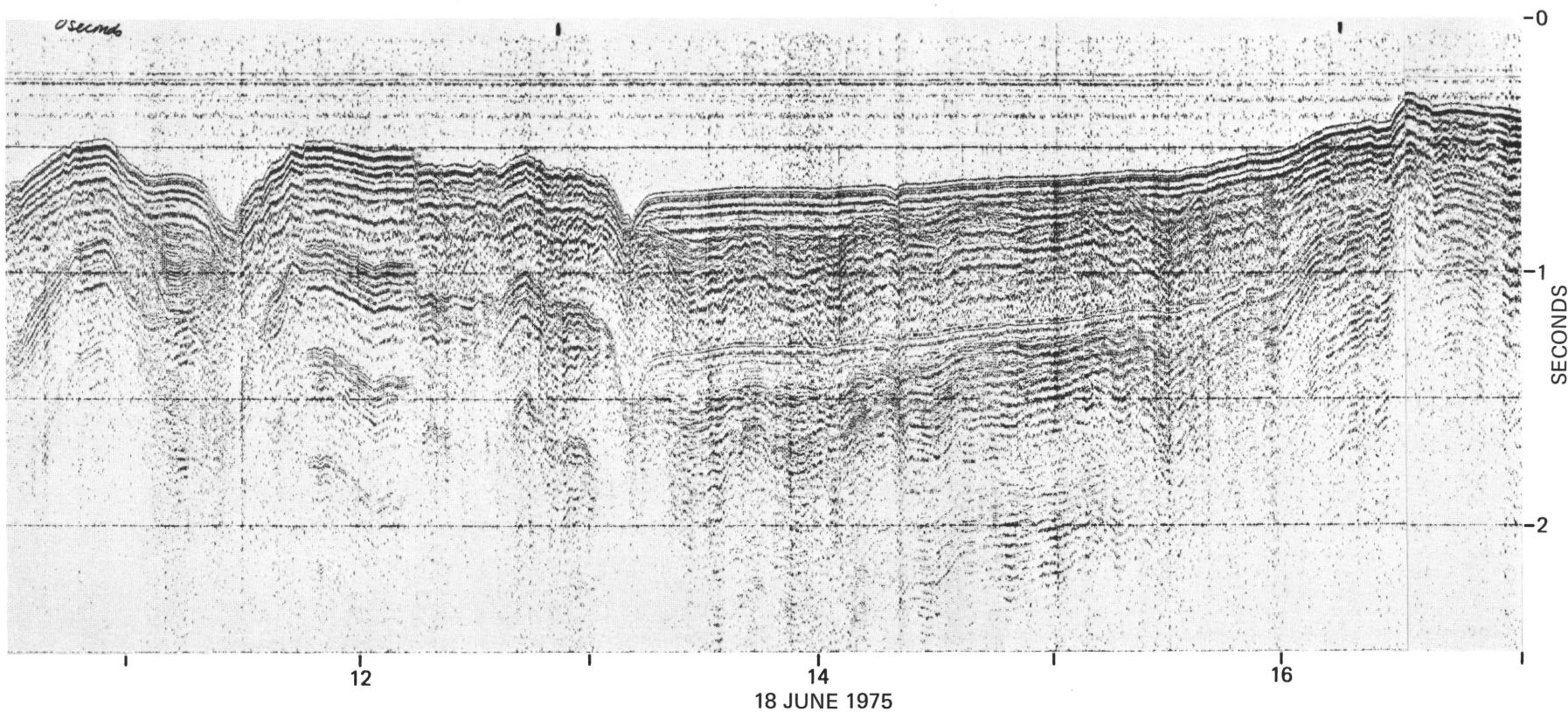


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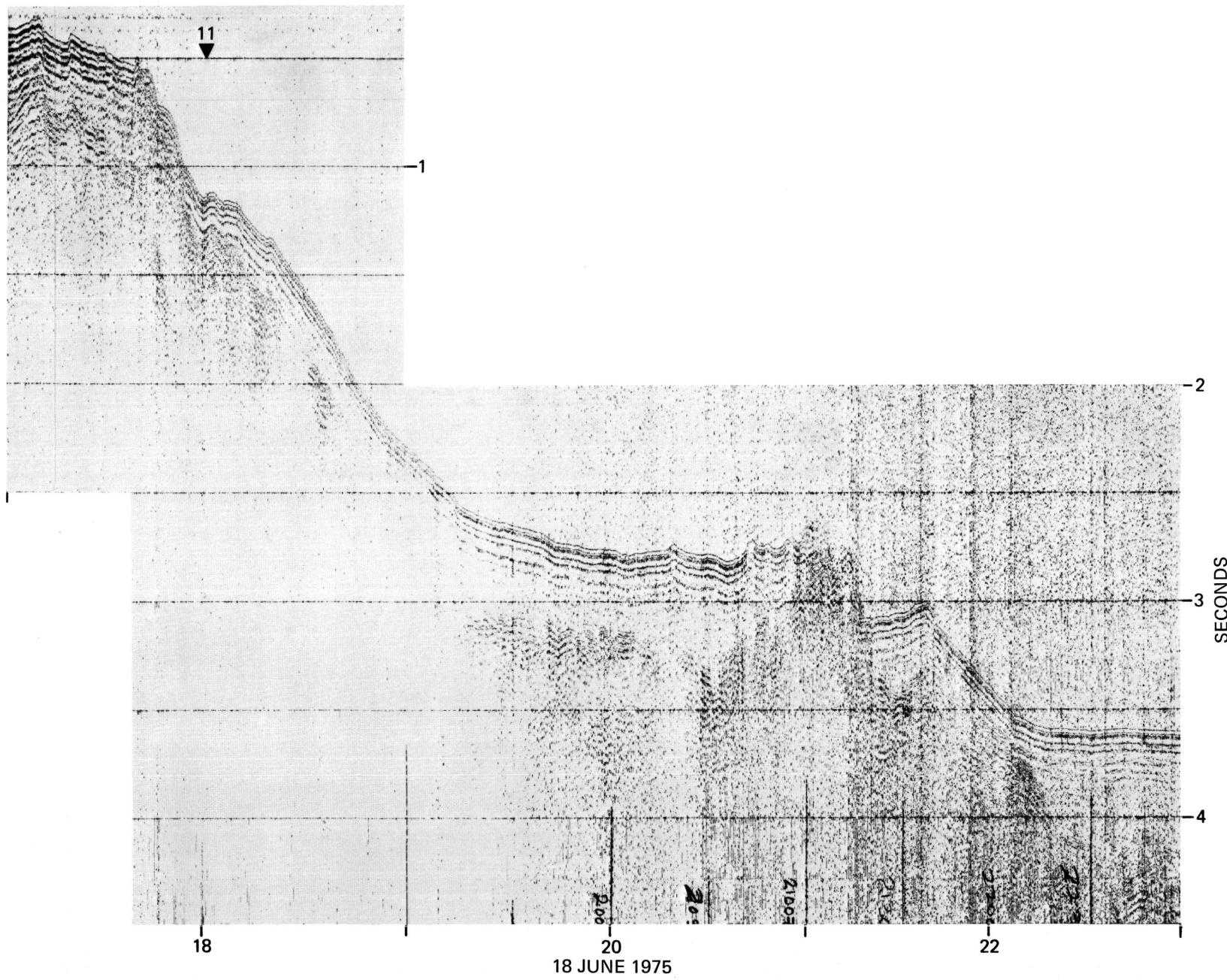


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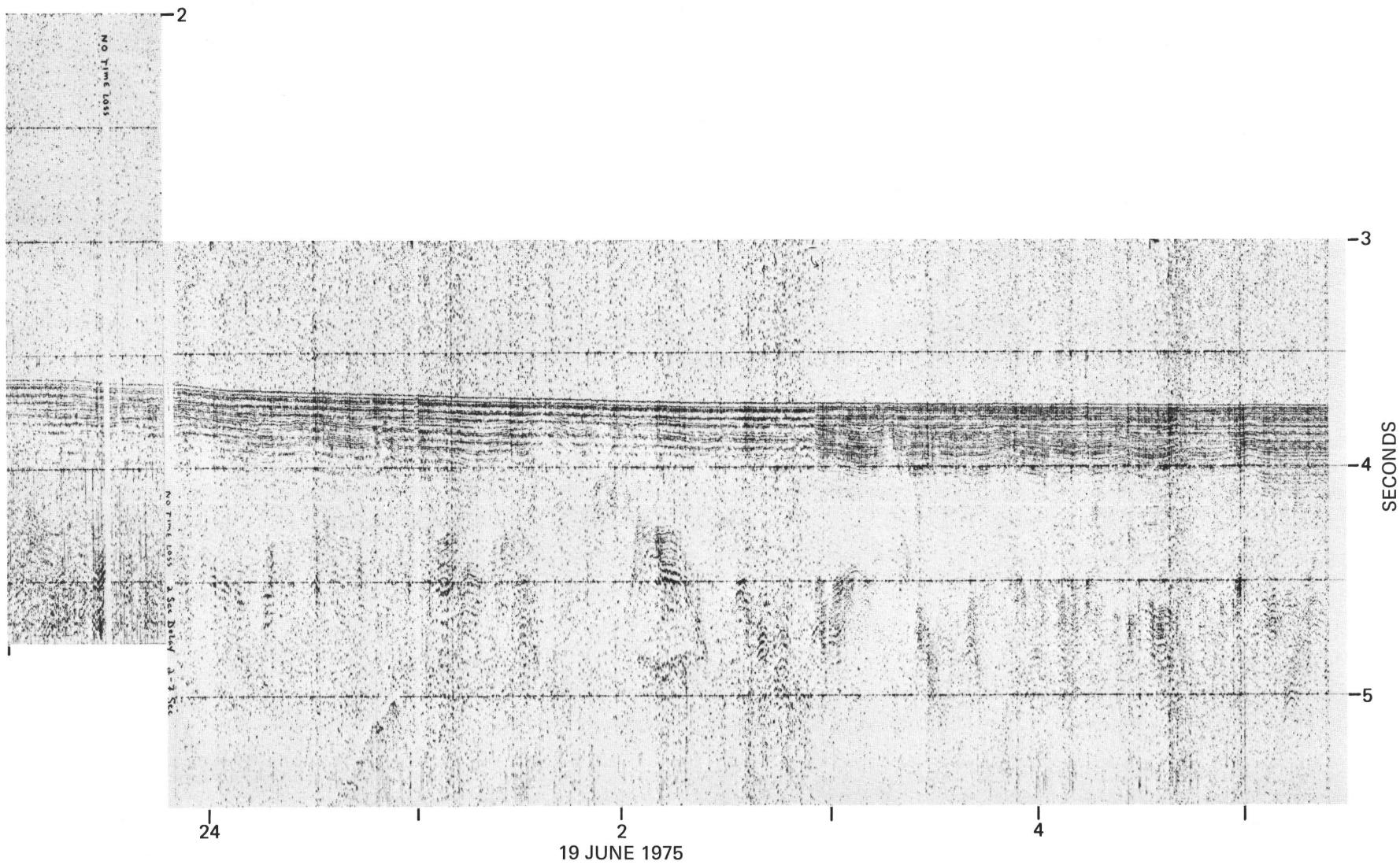


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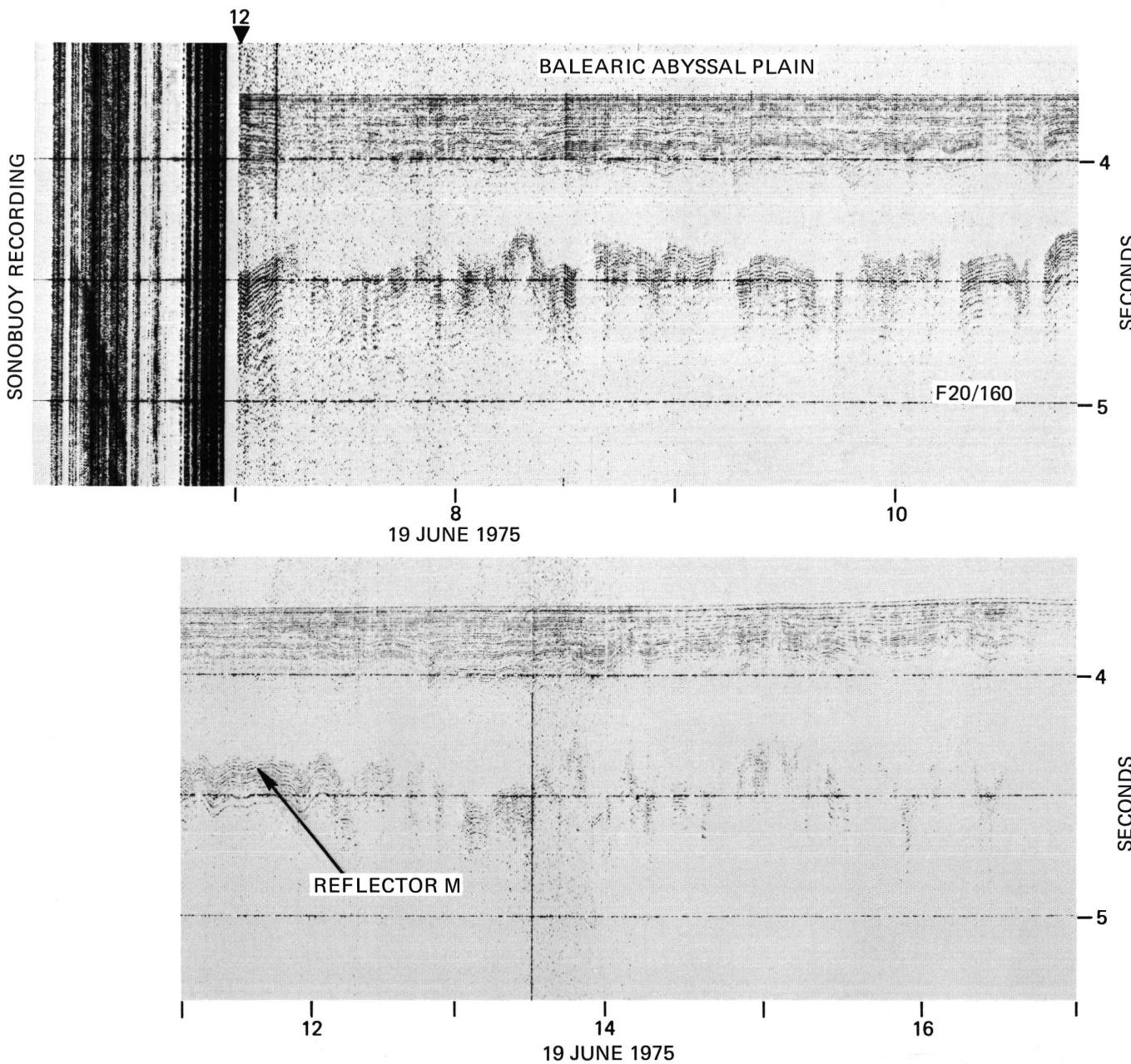


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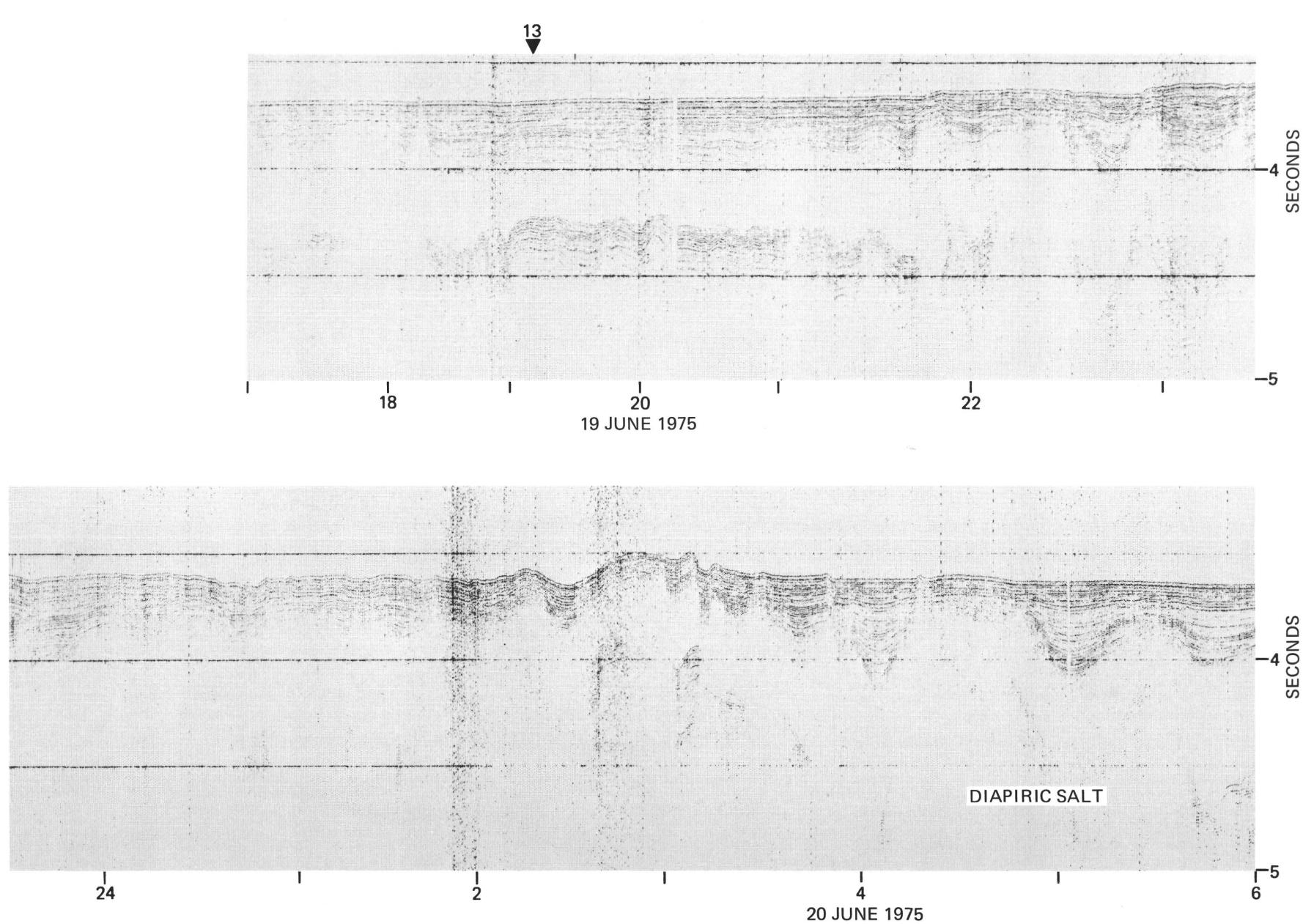


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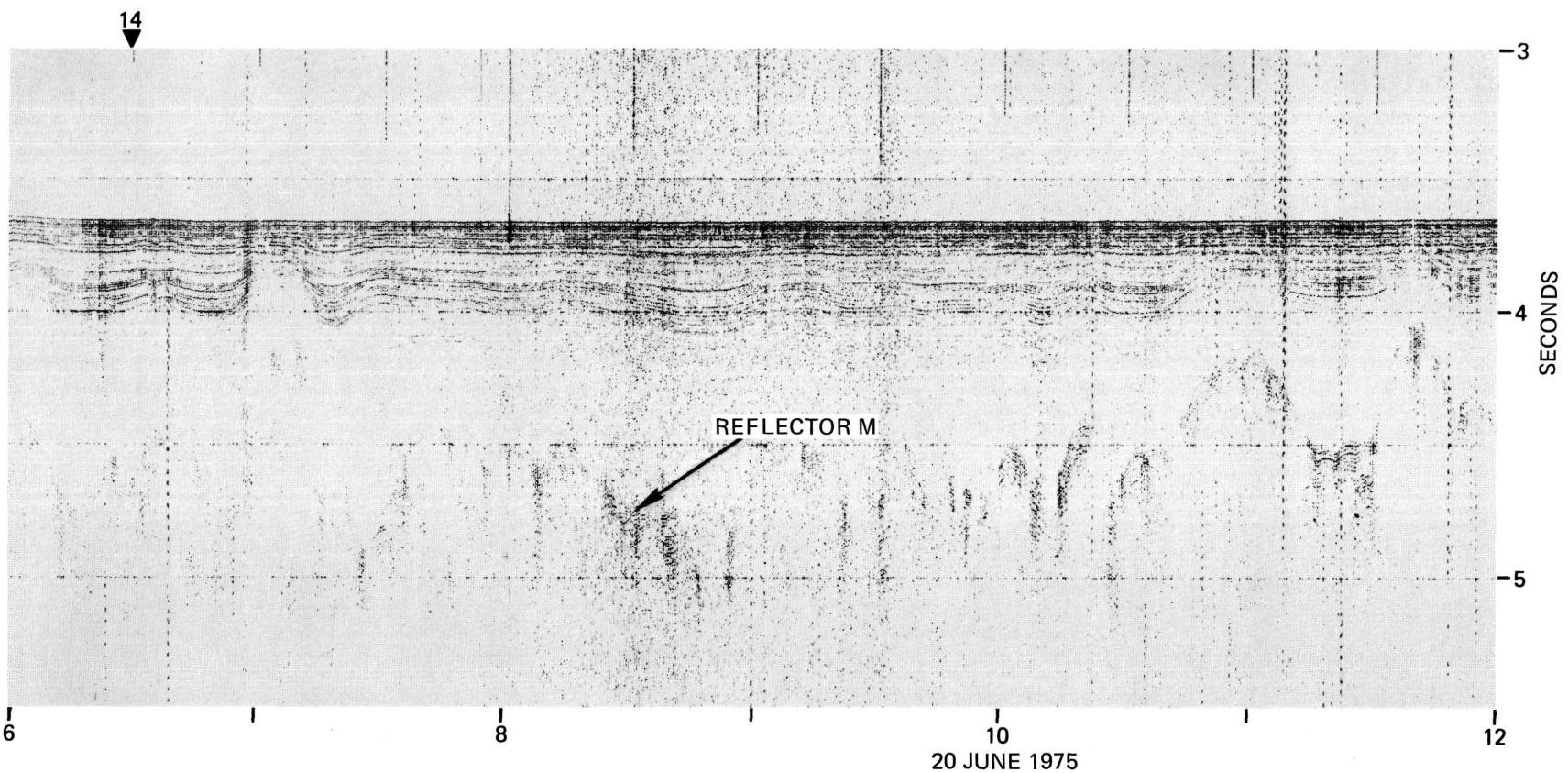


Figure 2. (Continued).

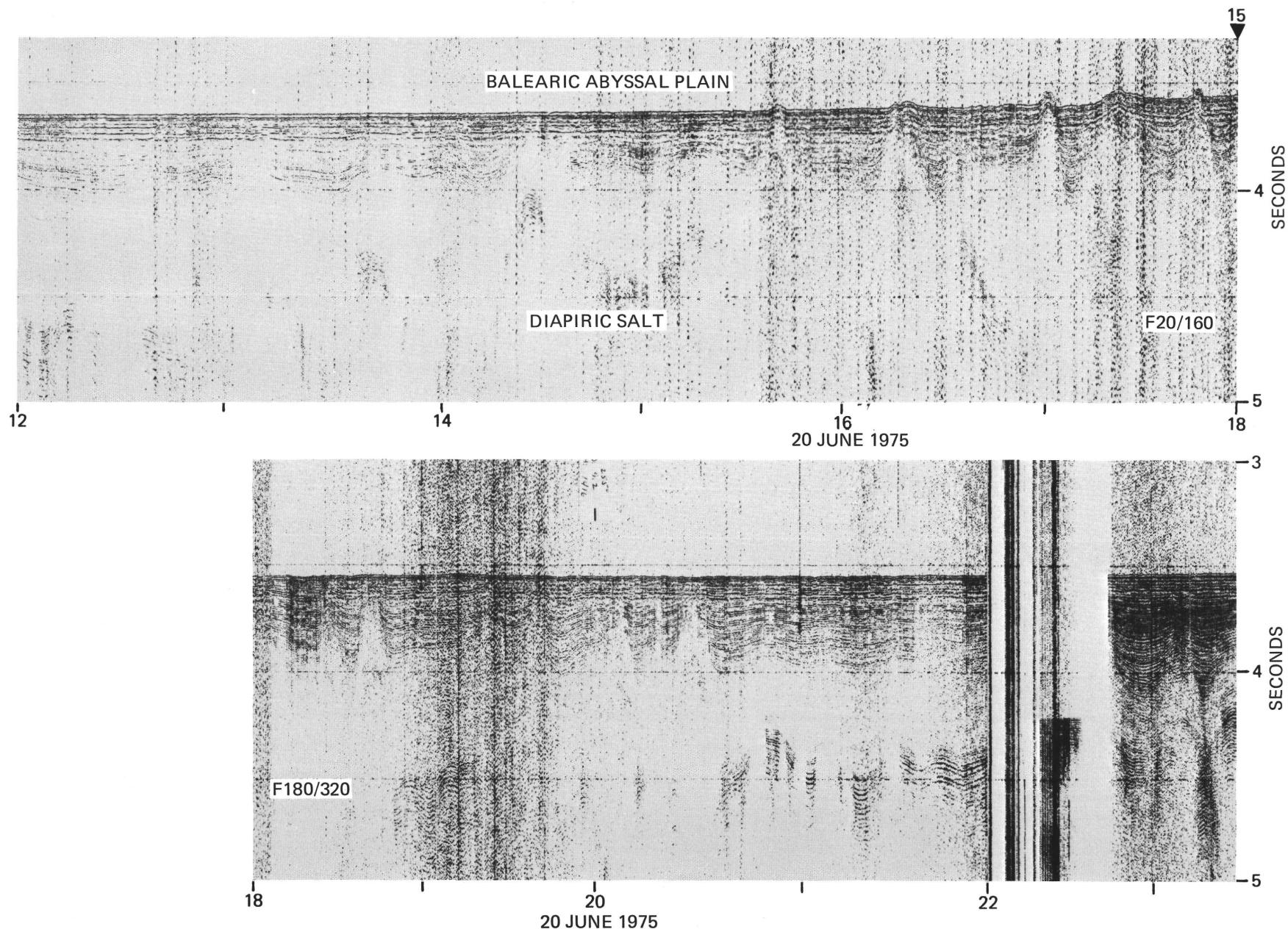


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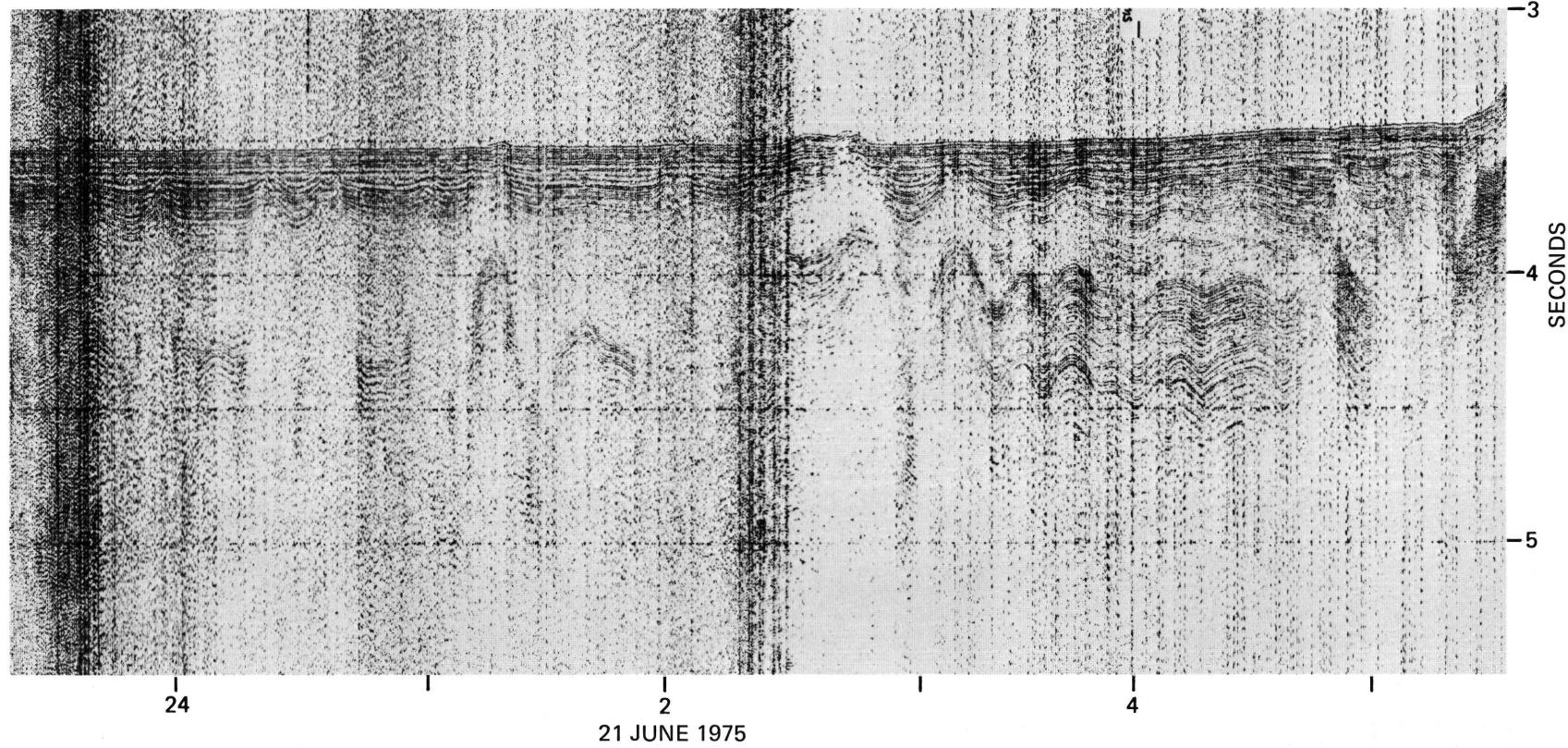


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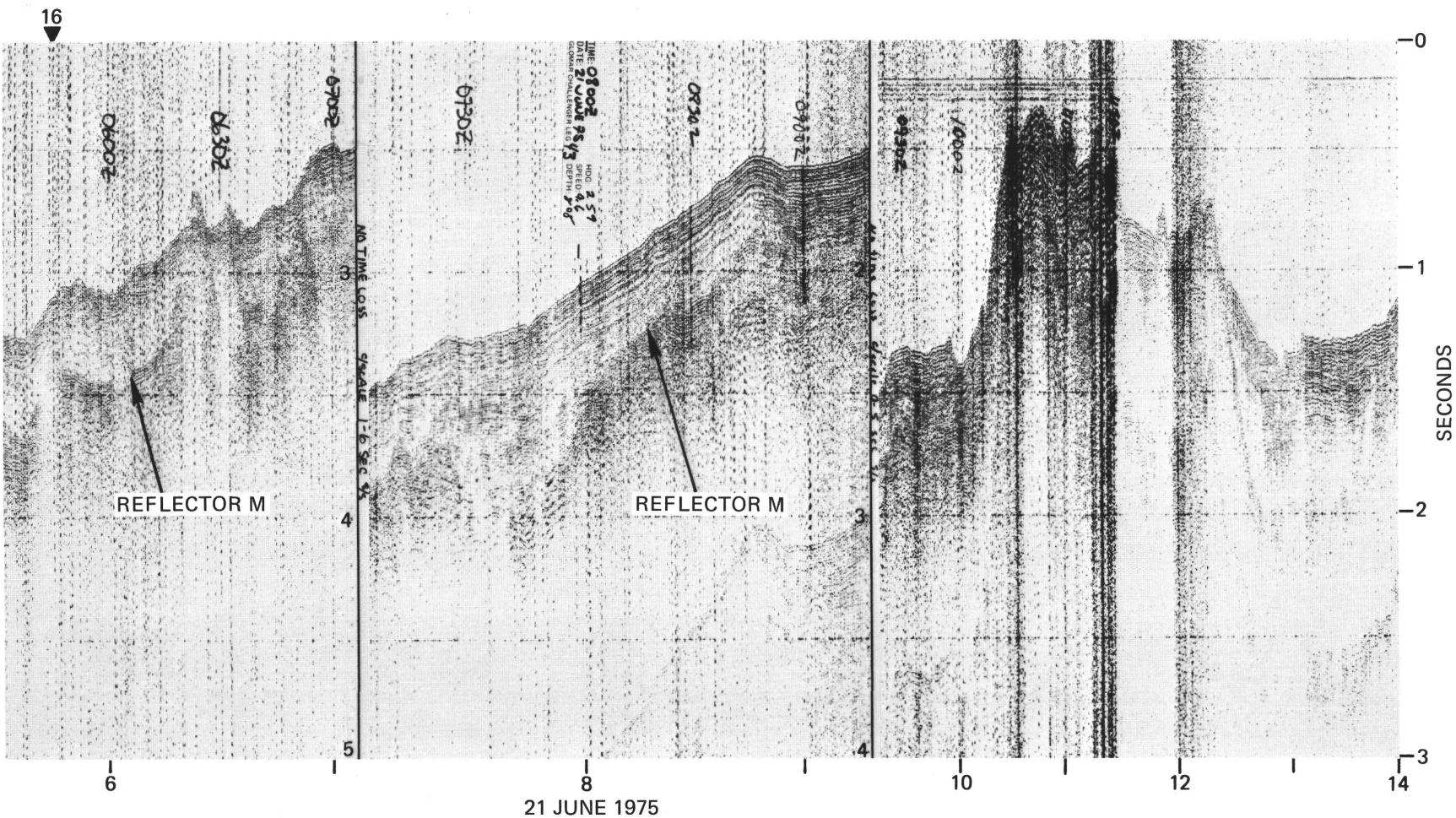


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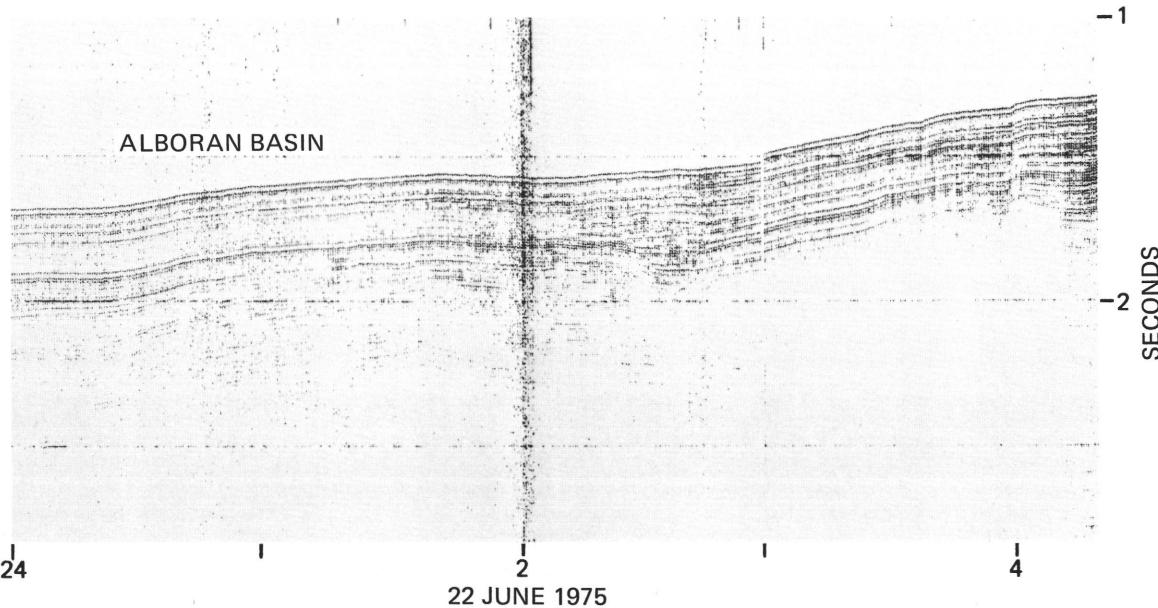
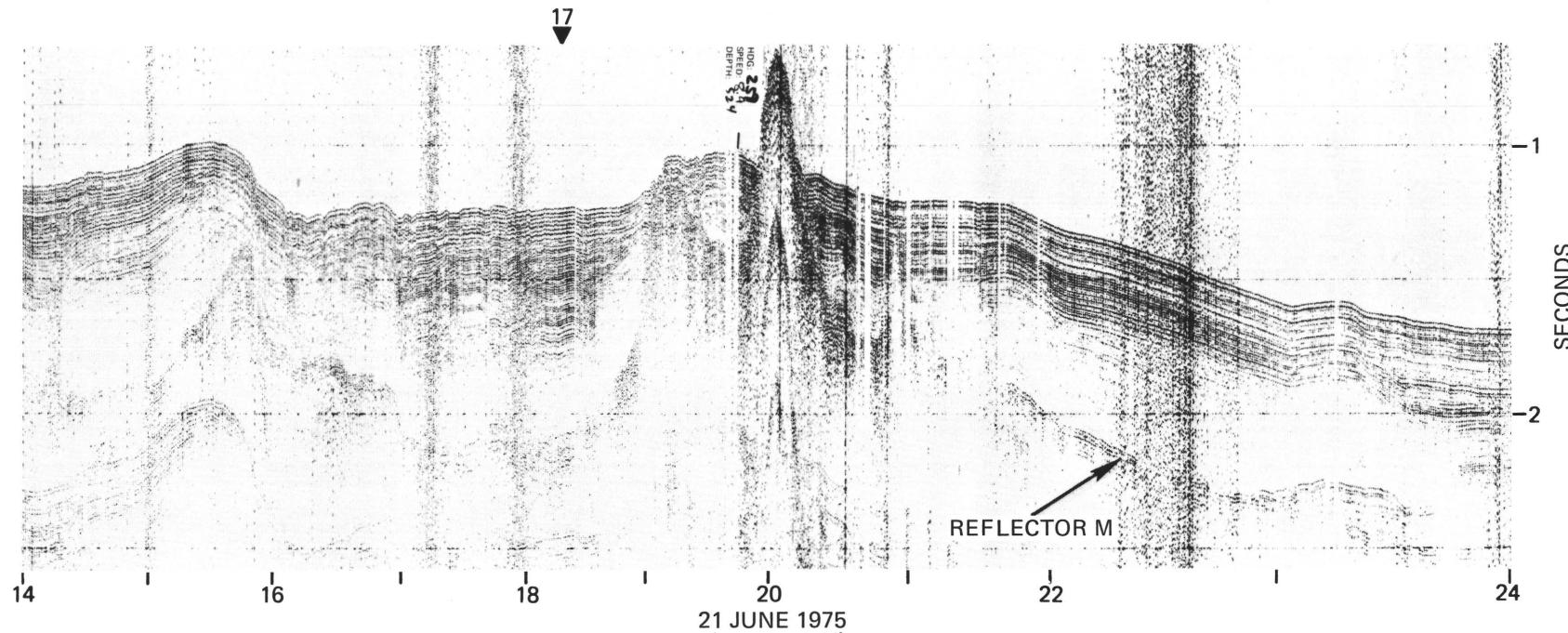


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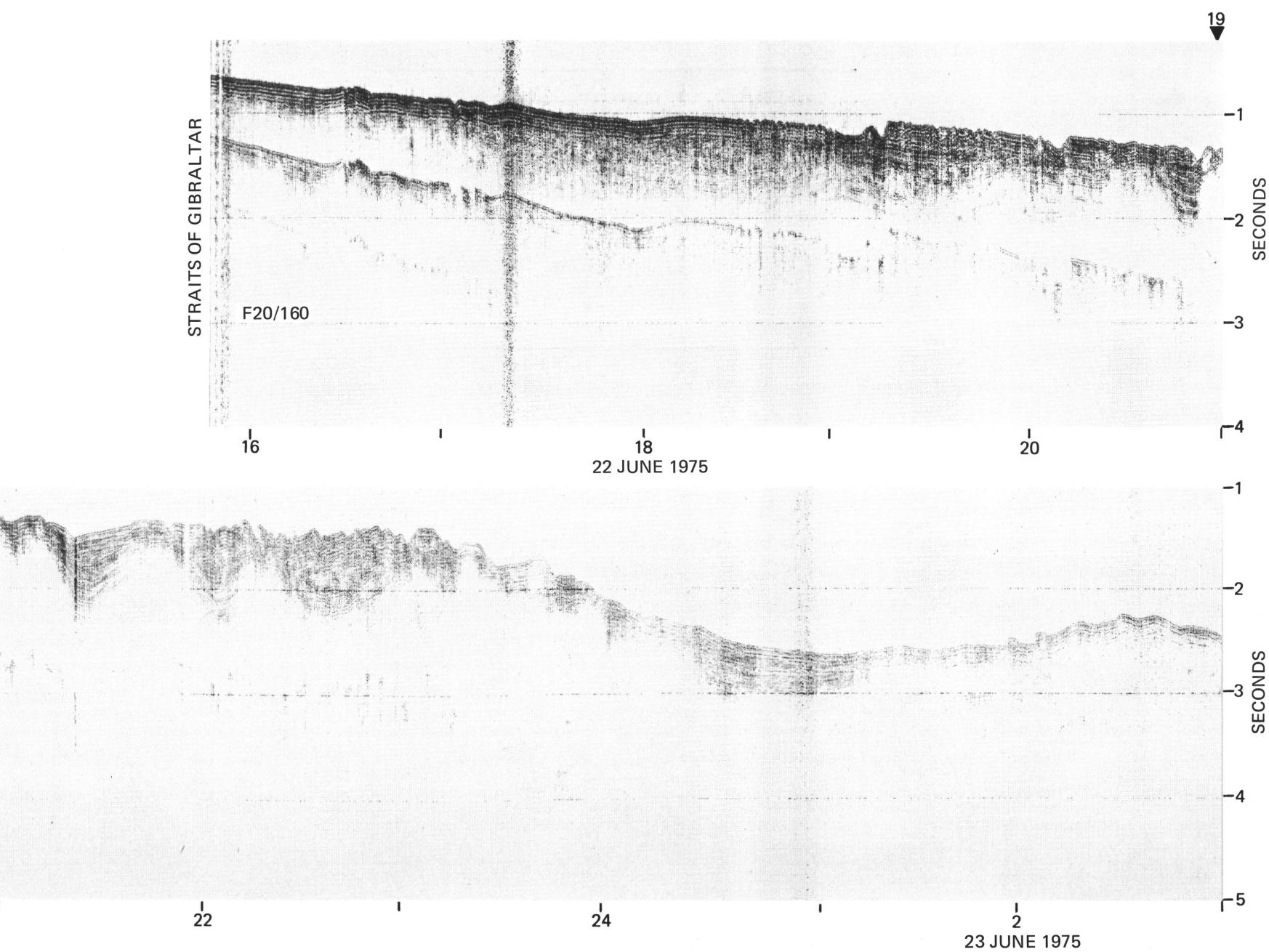


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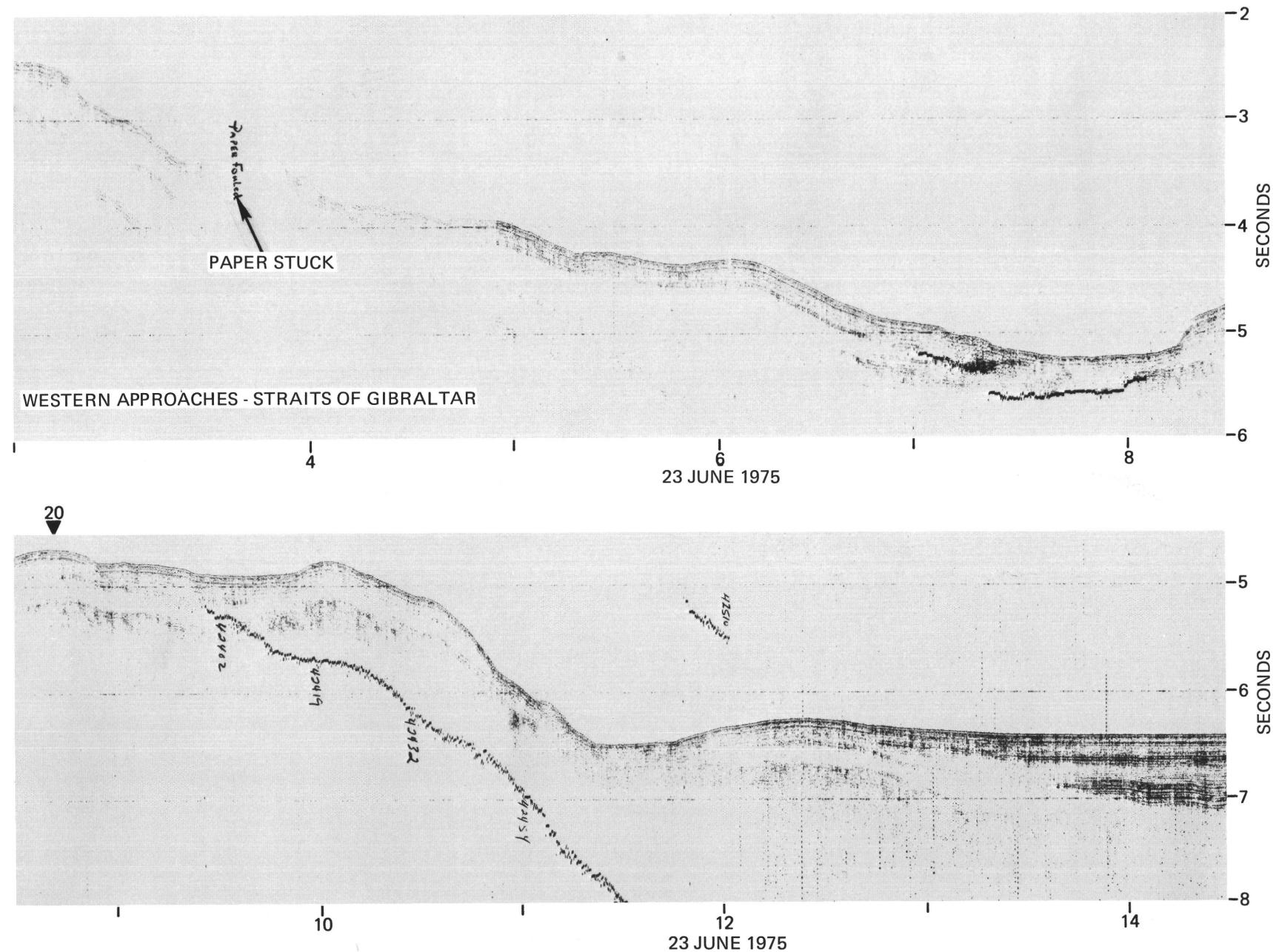


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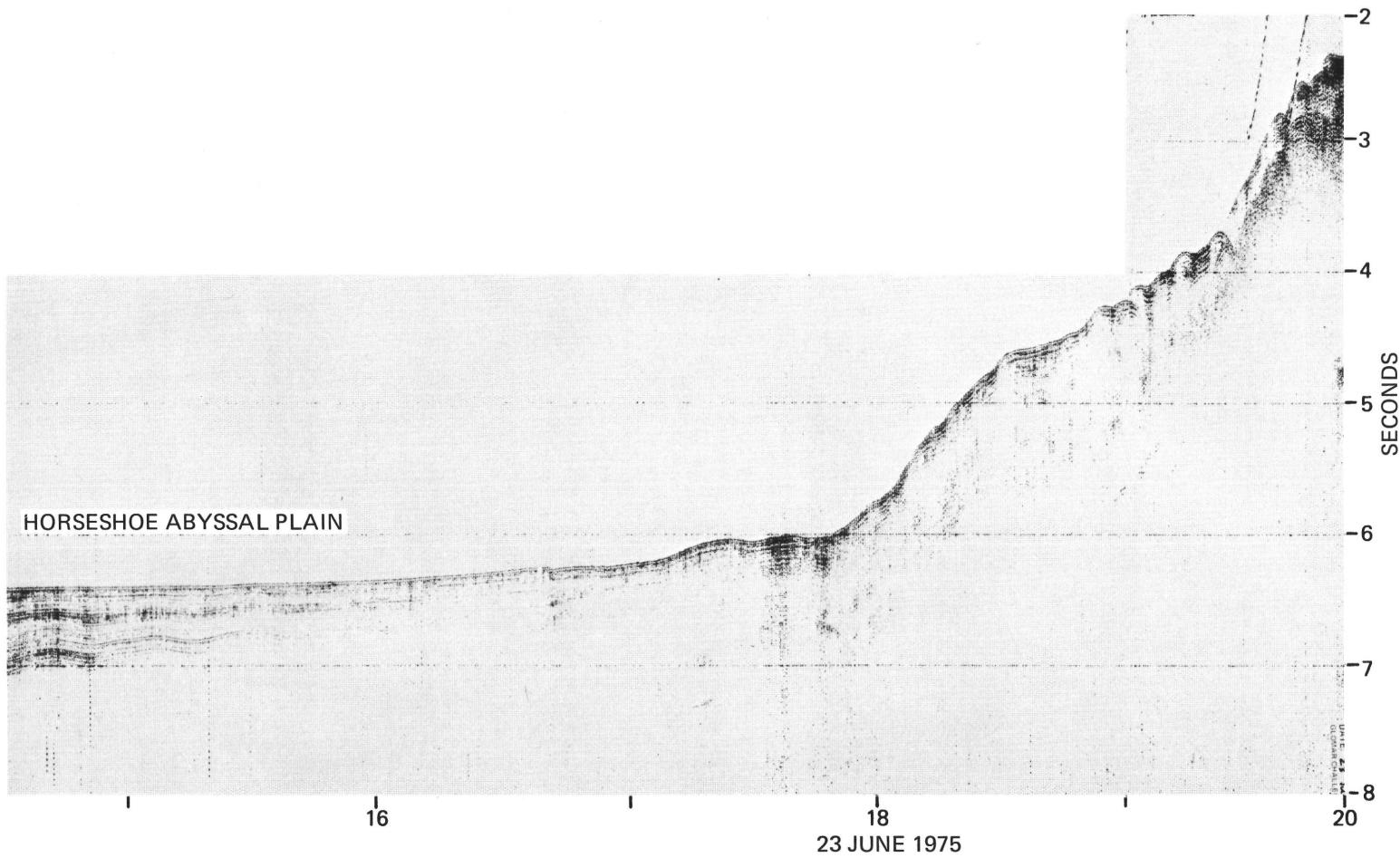


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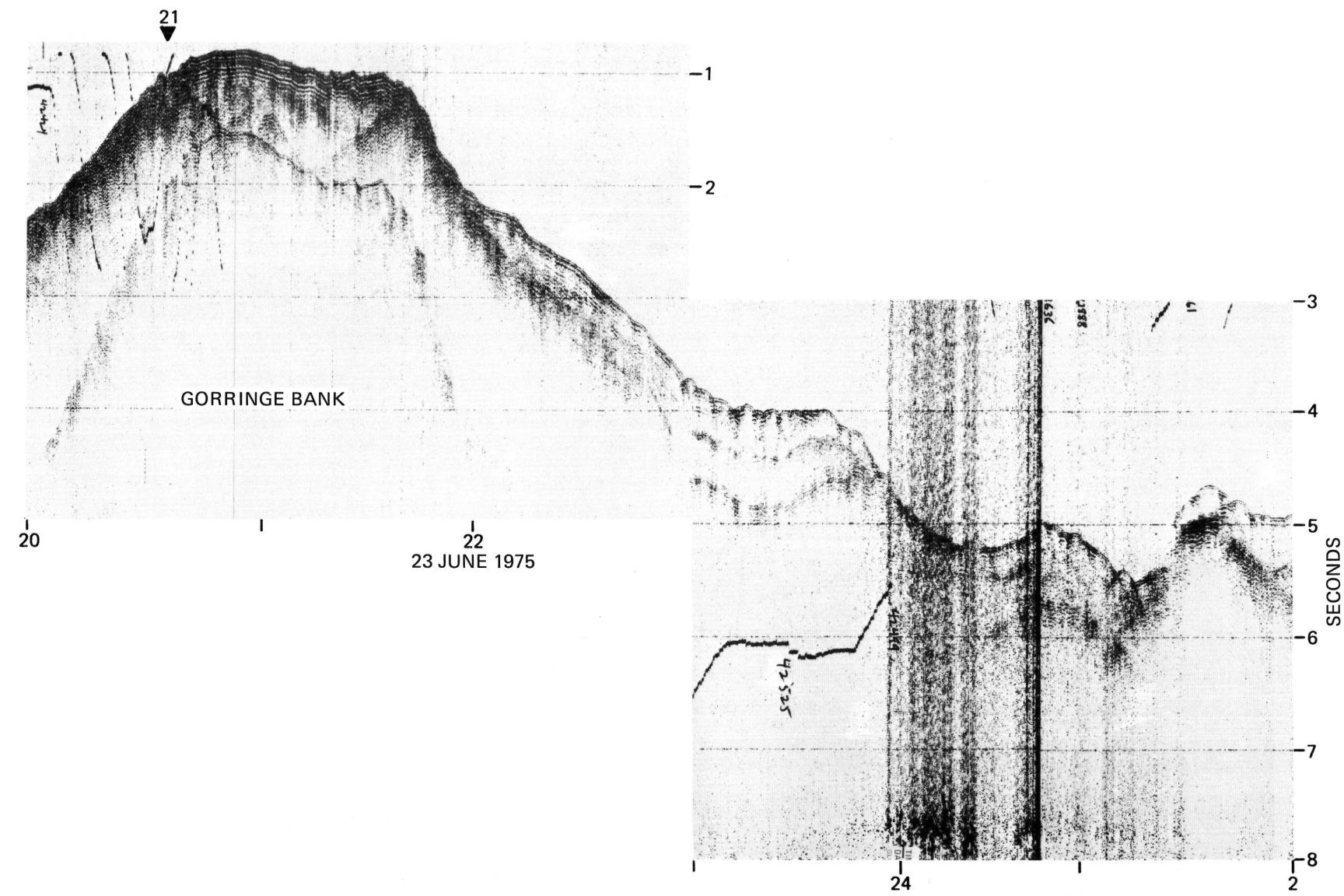


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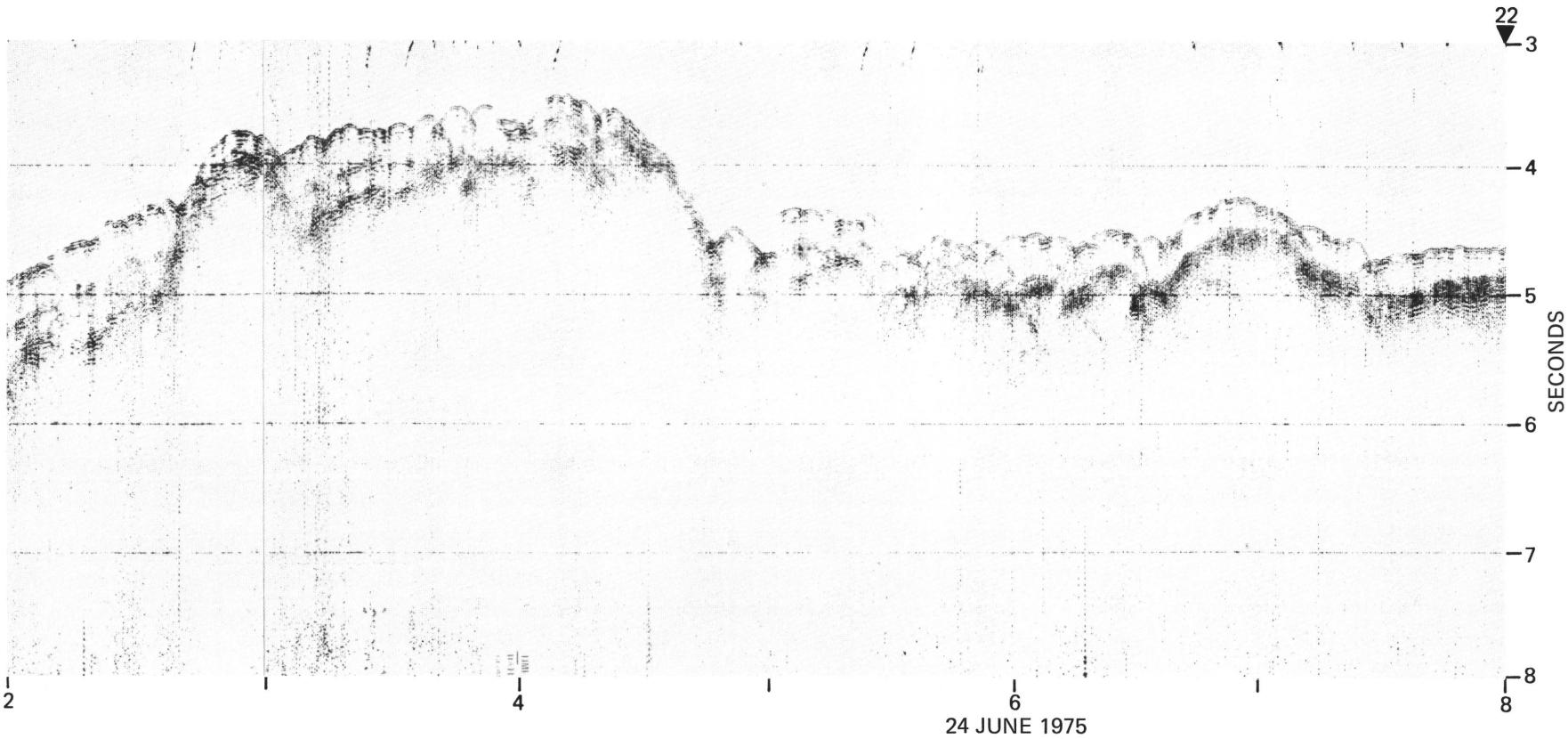


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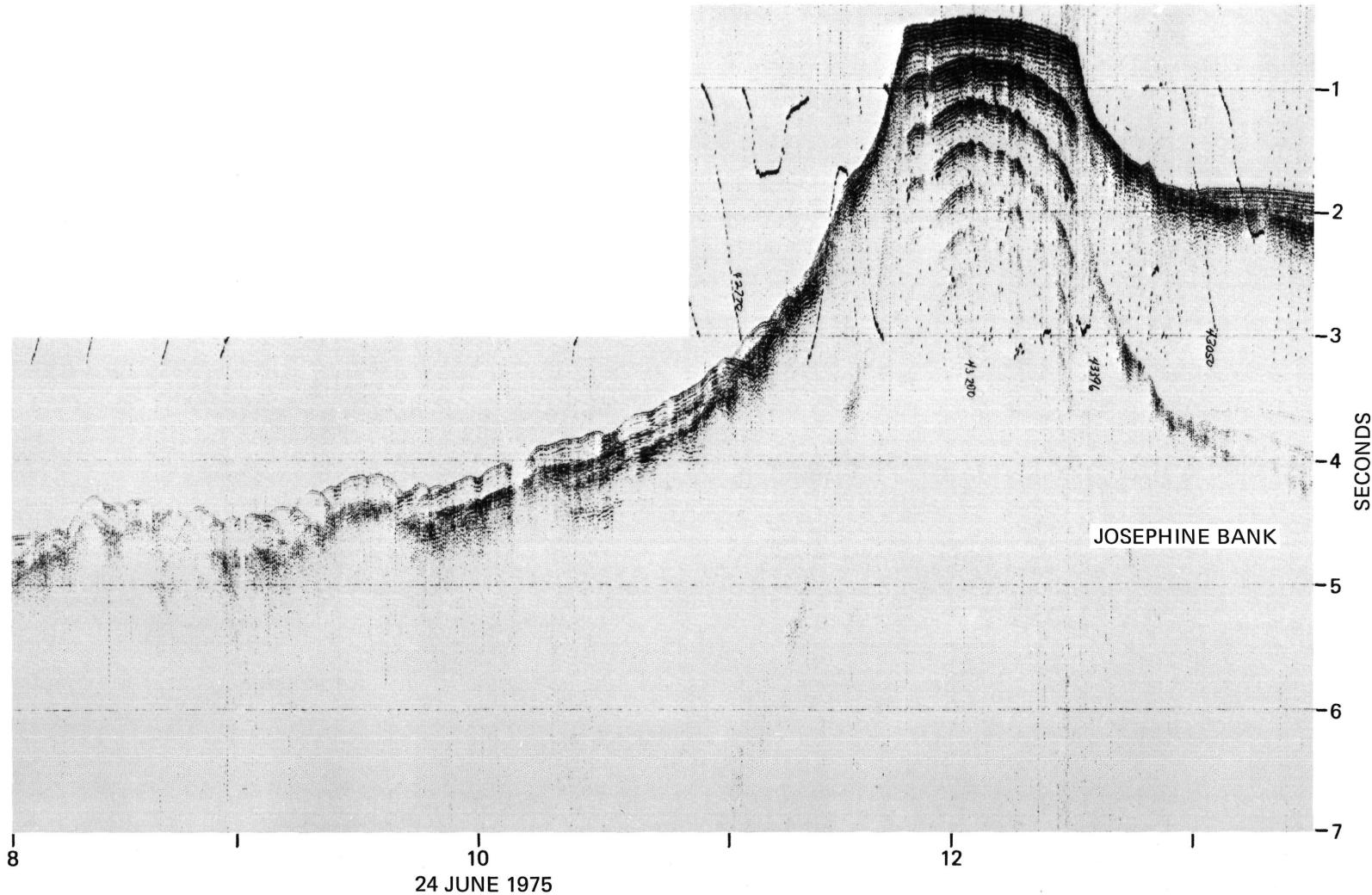


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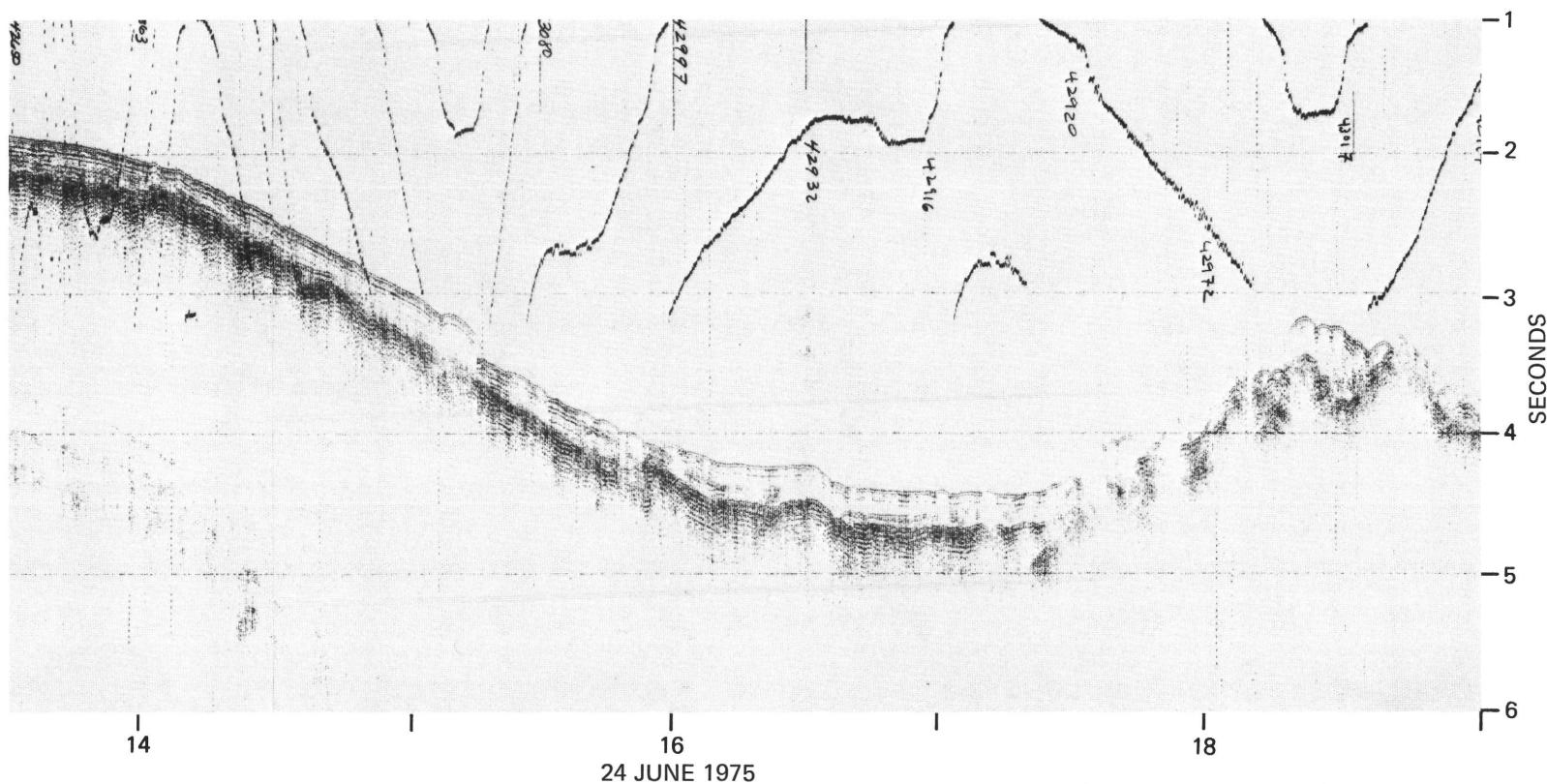


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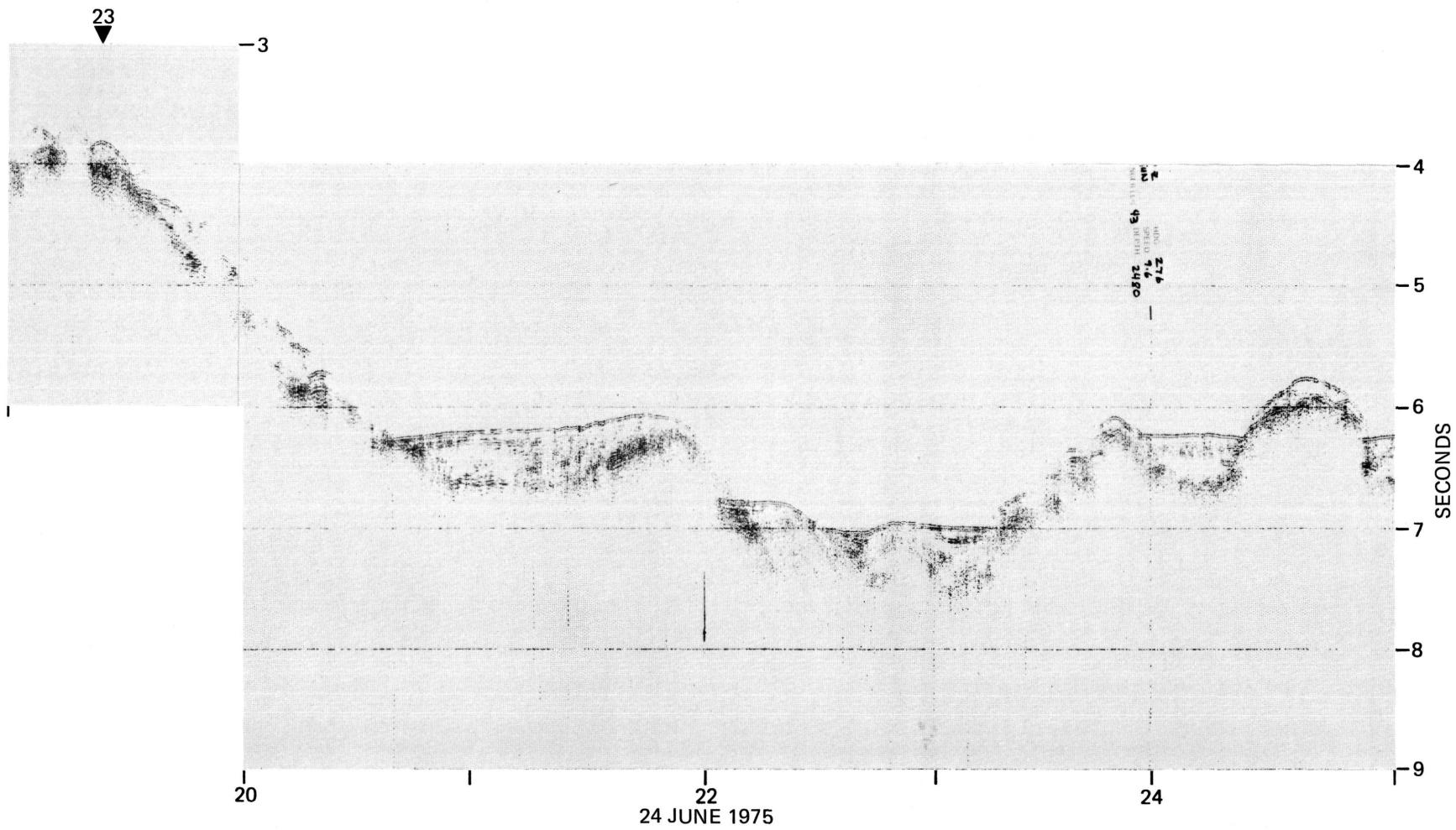


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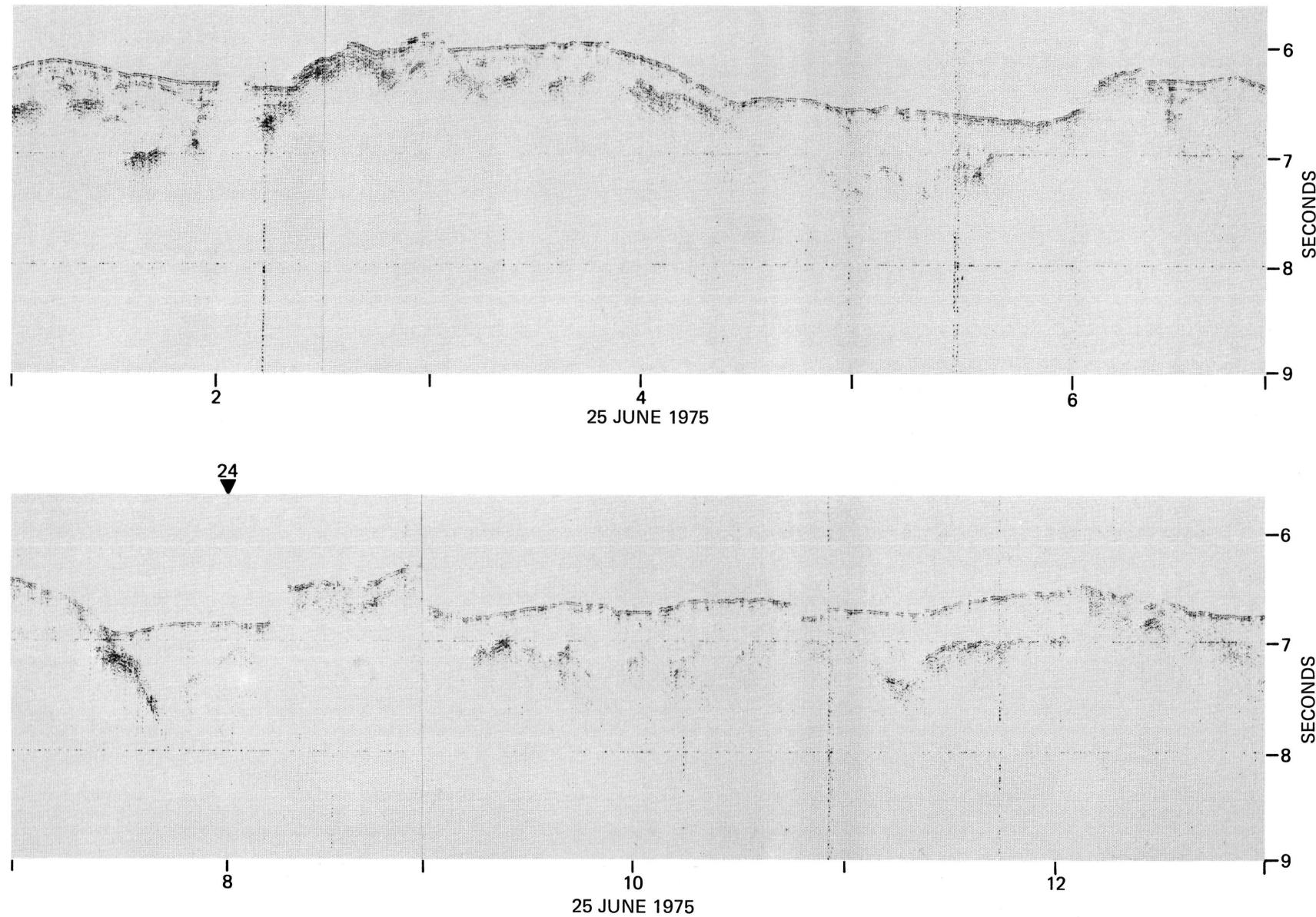


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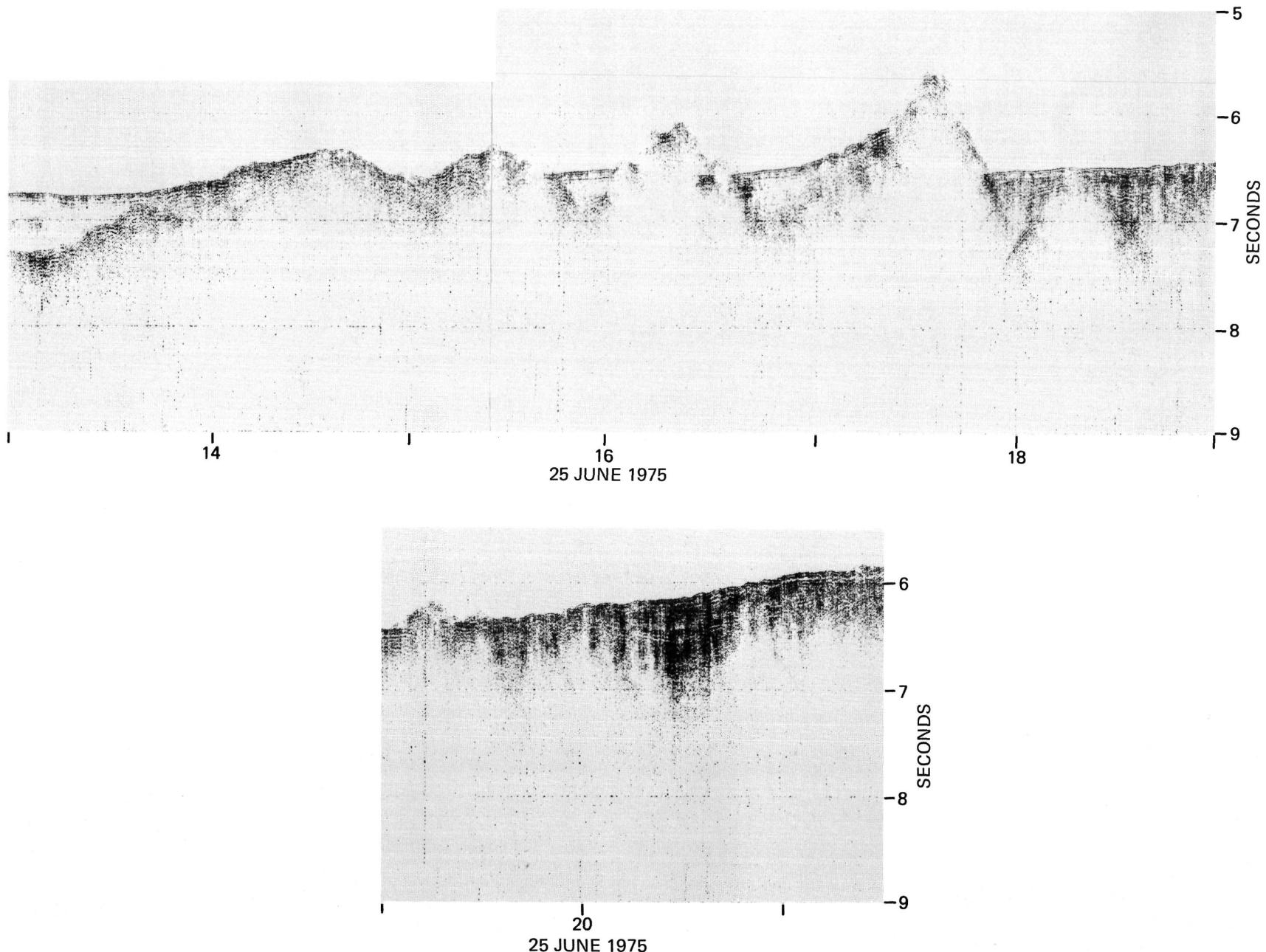


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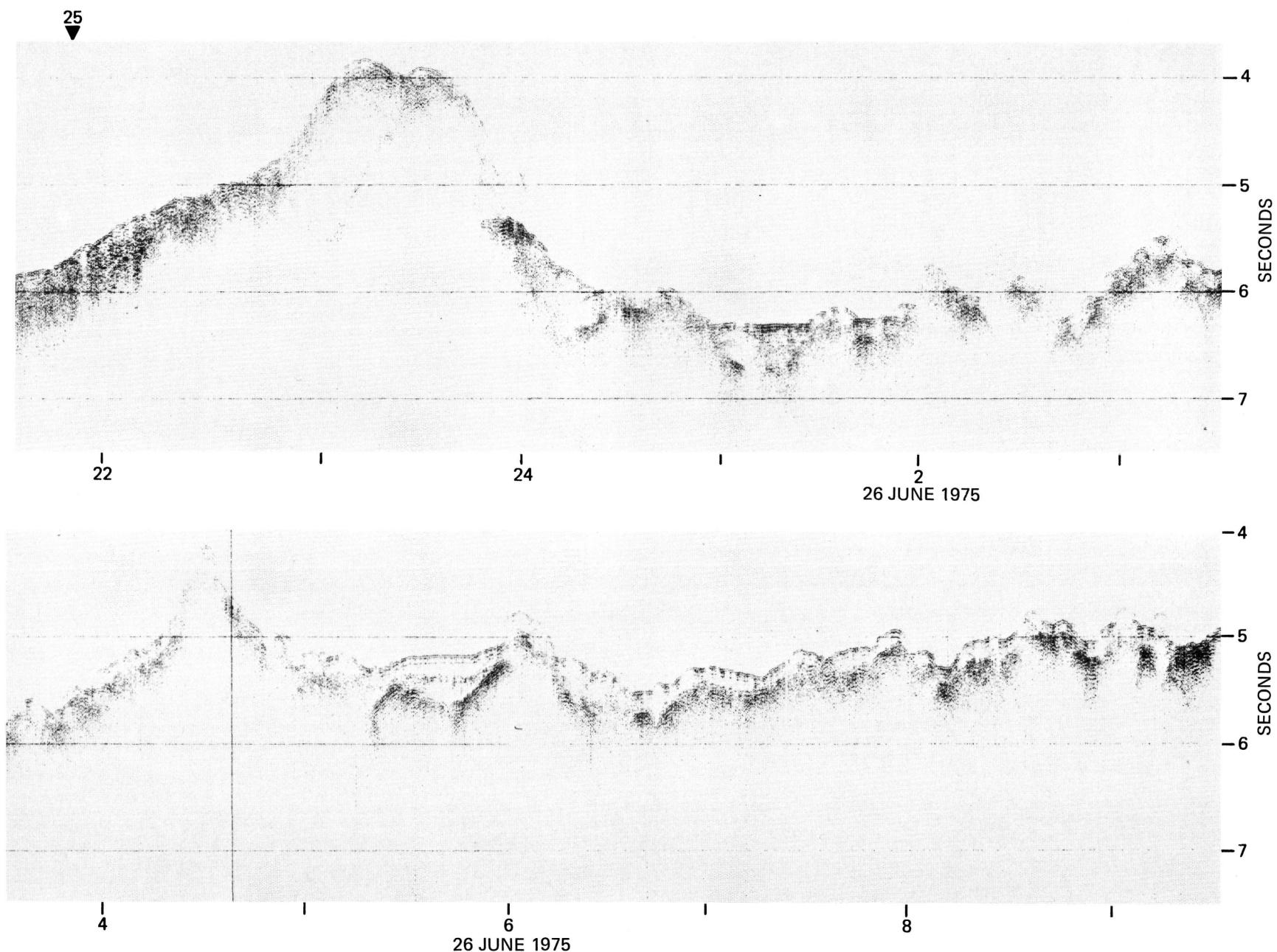


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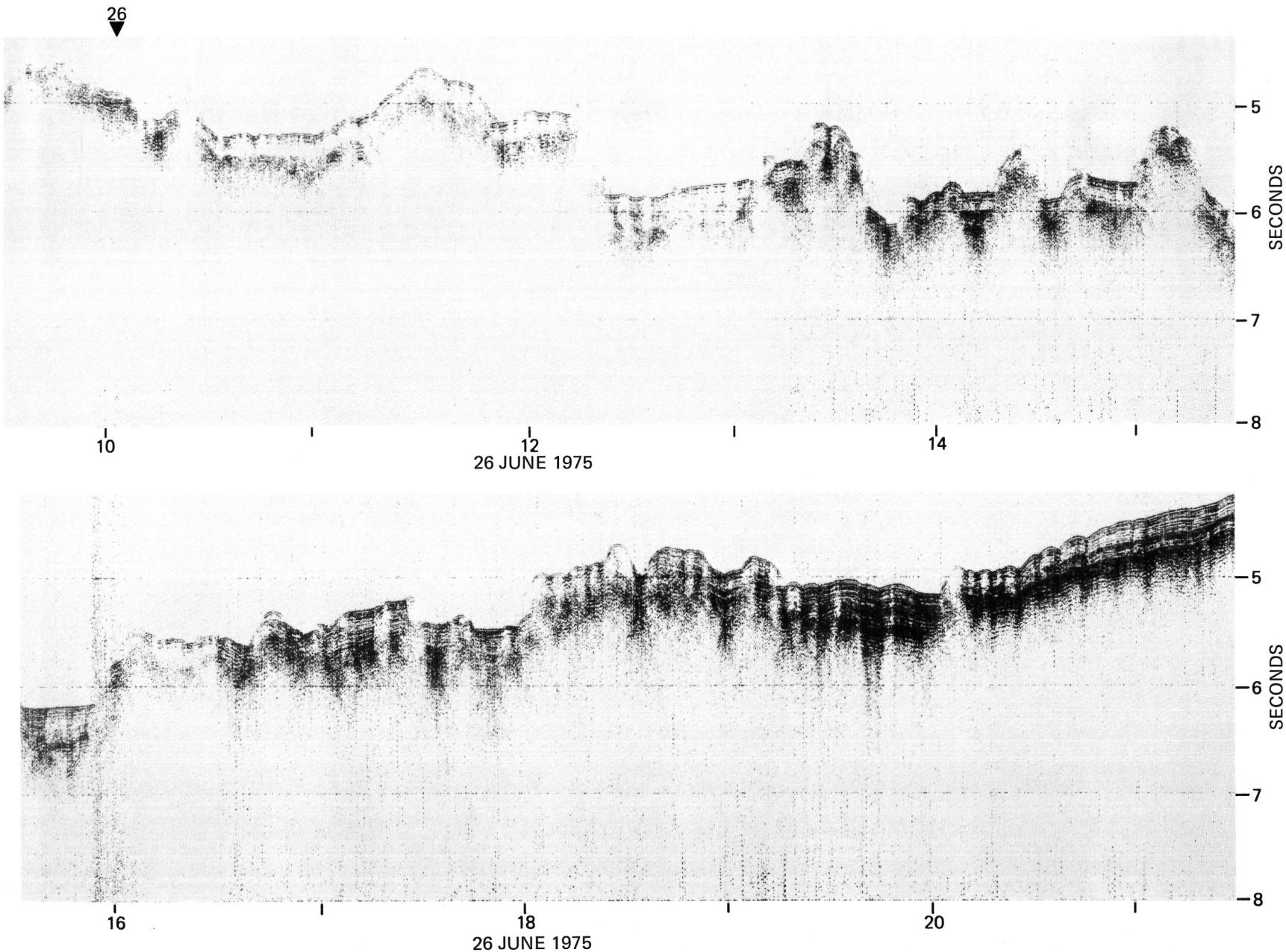


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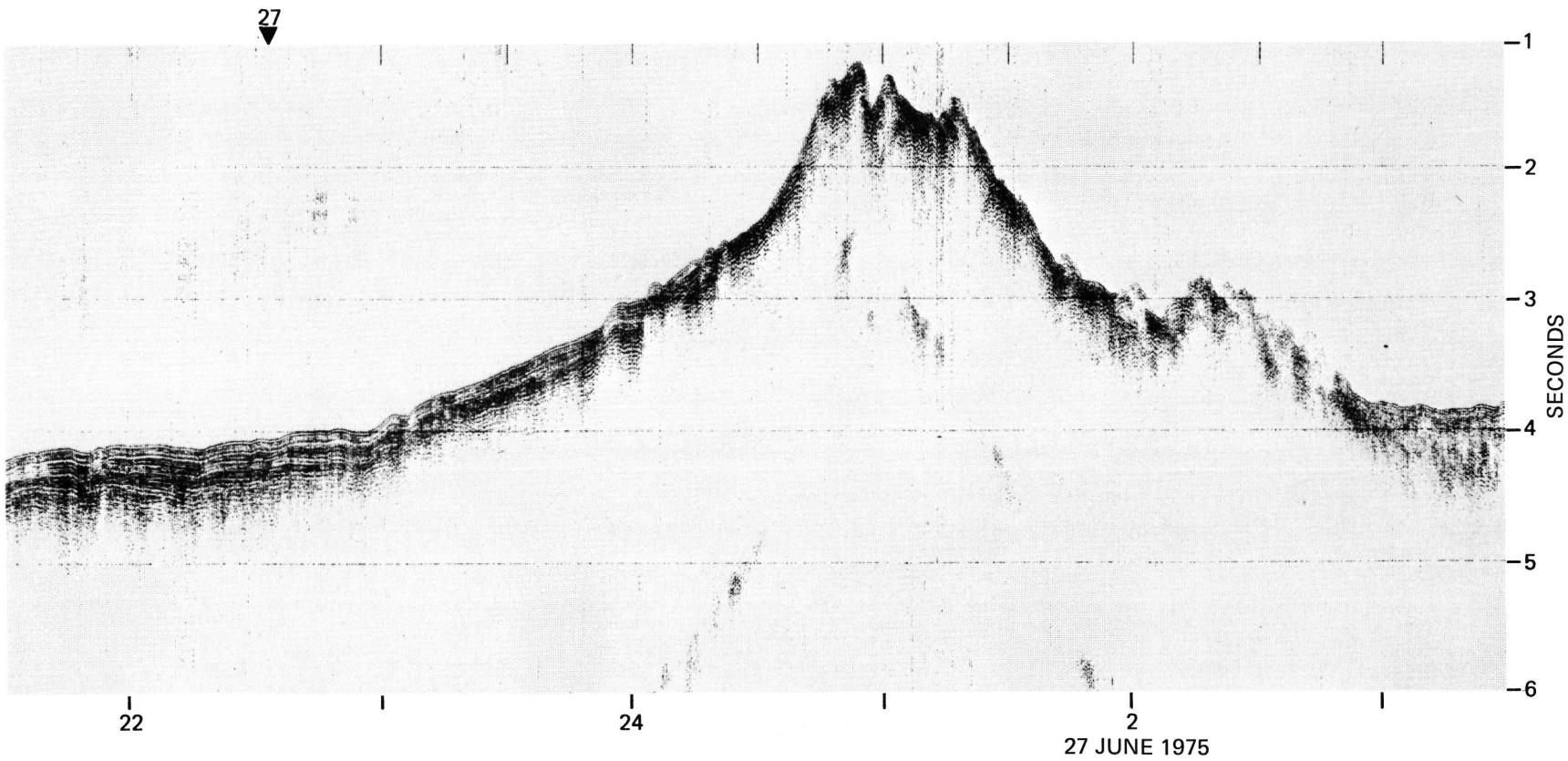


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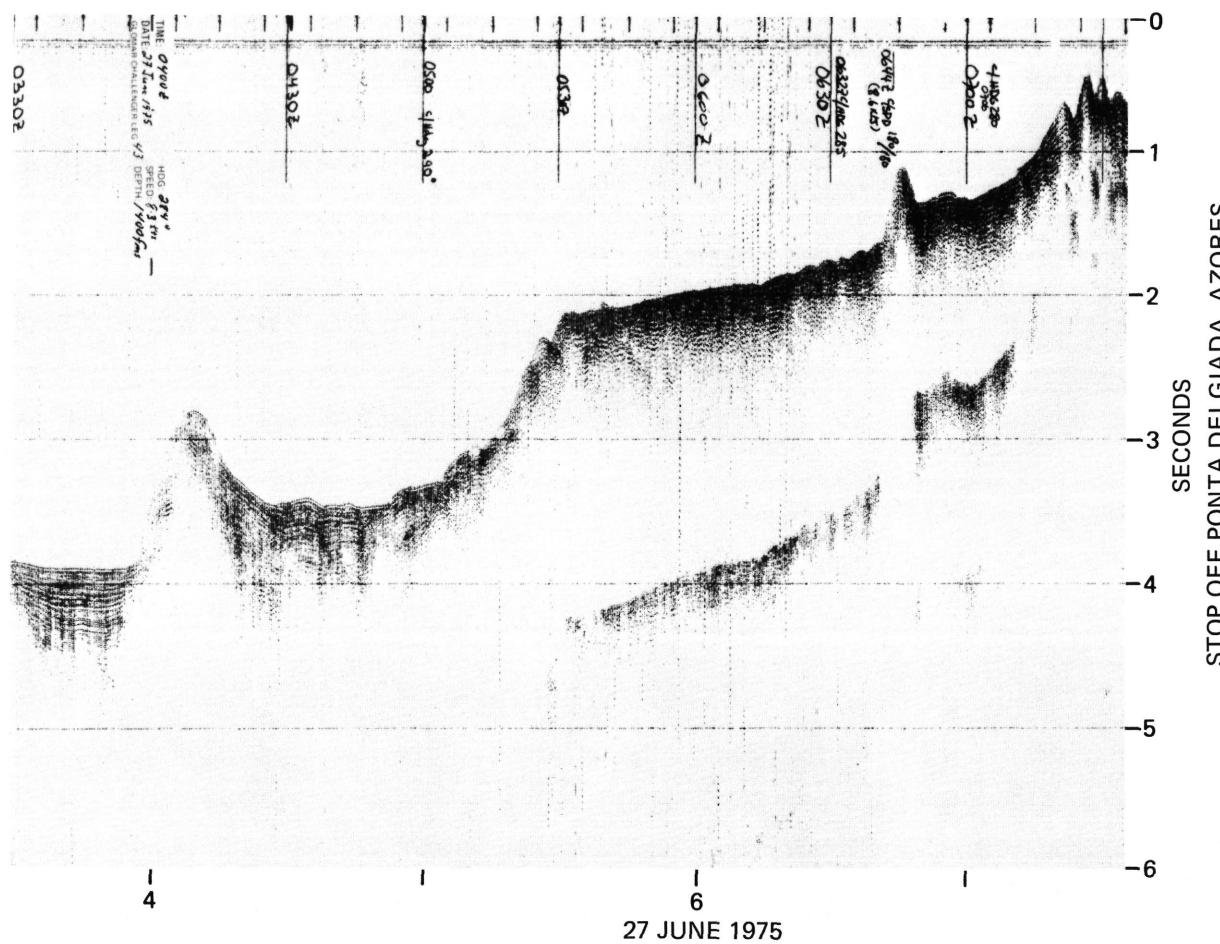


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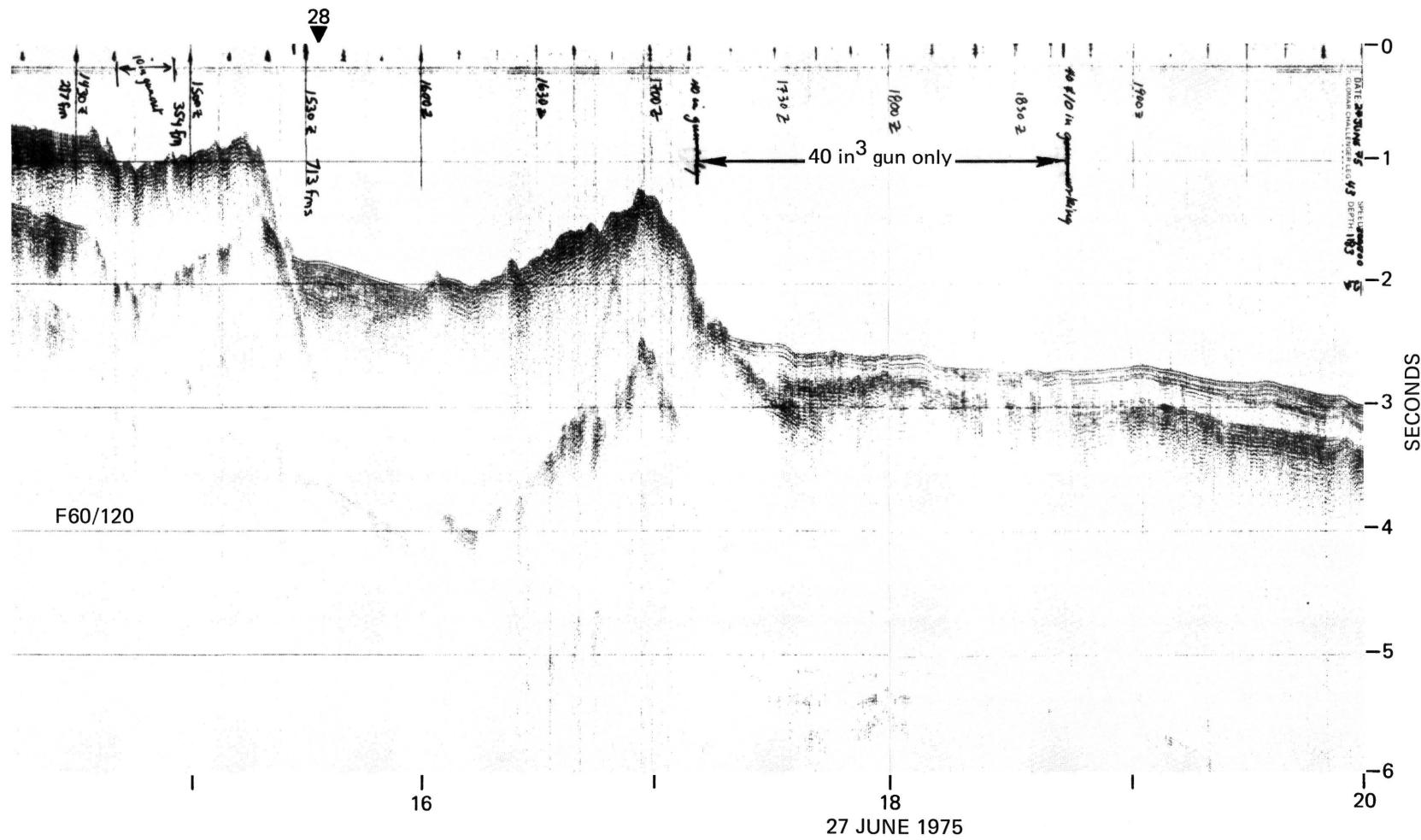


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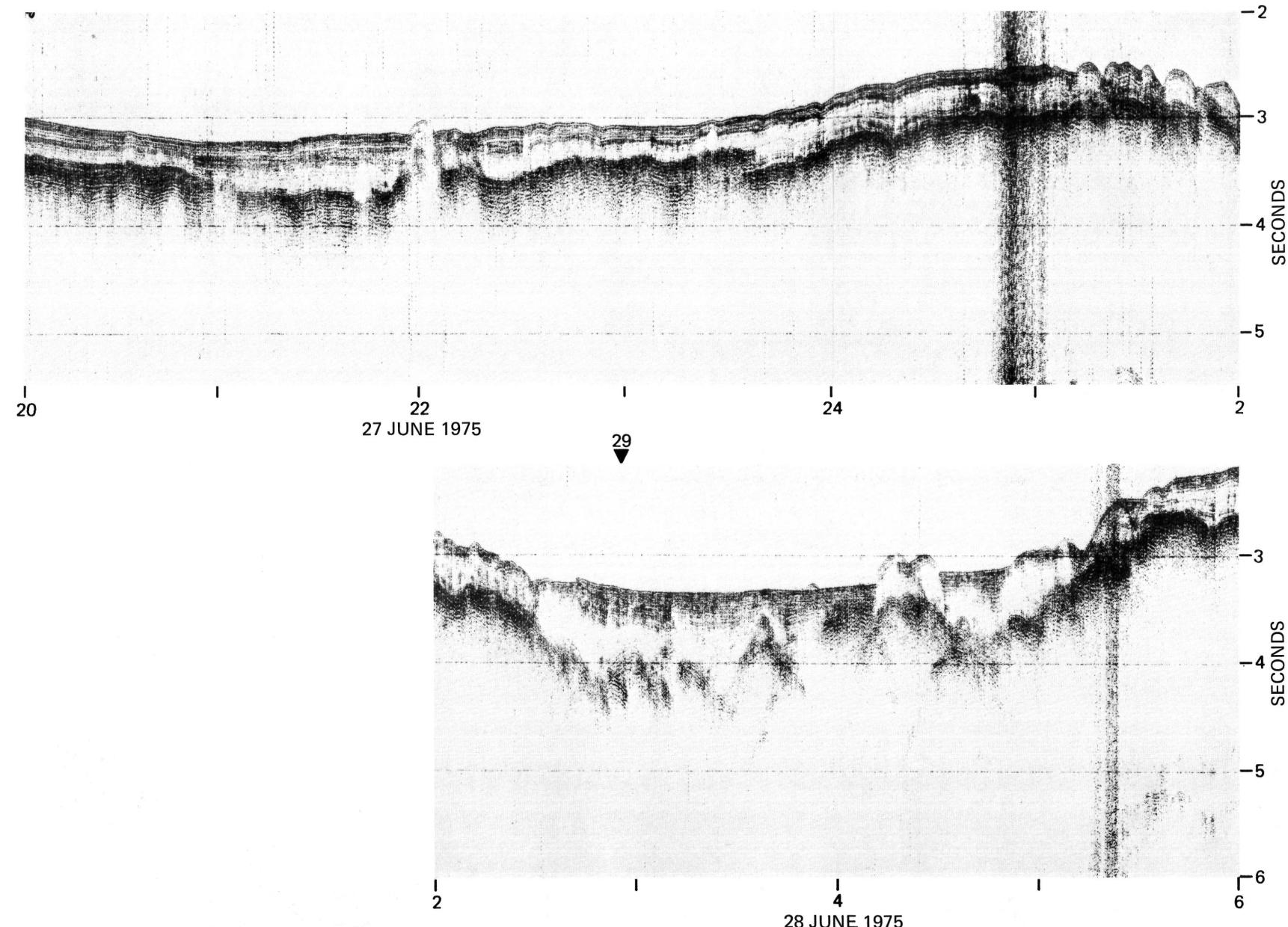


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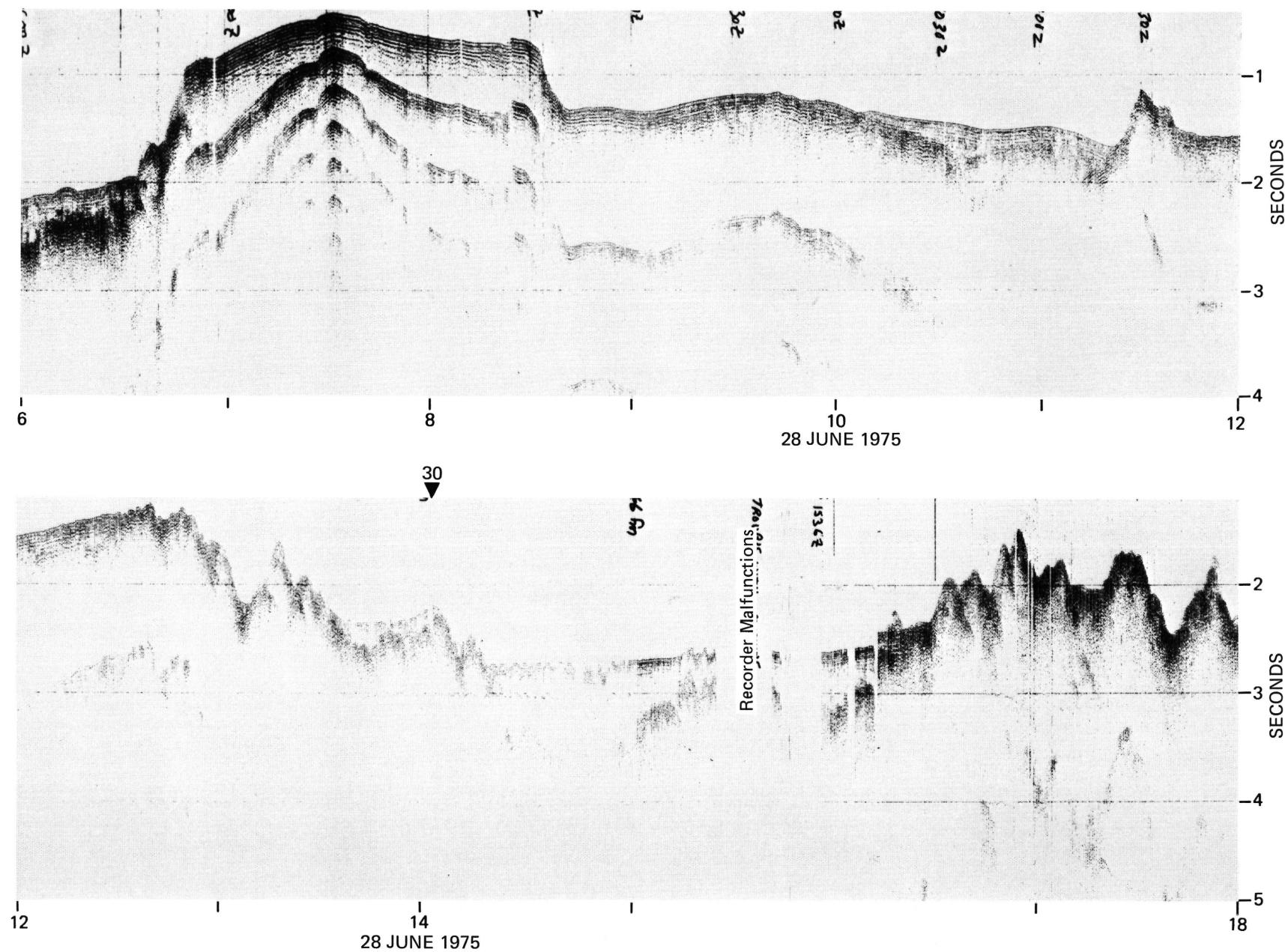


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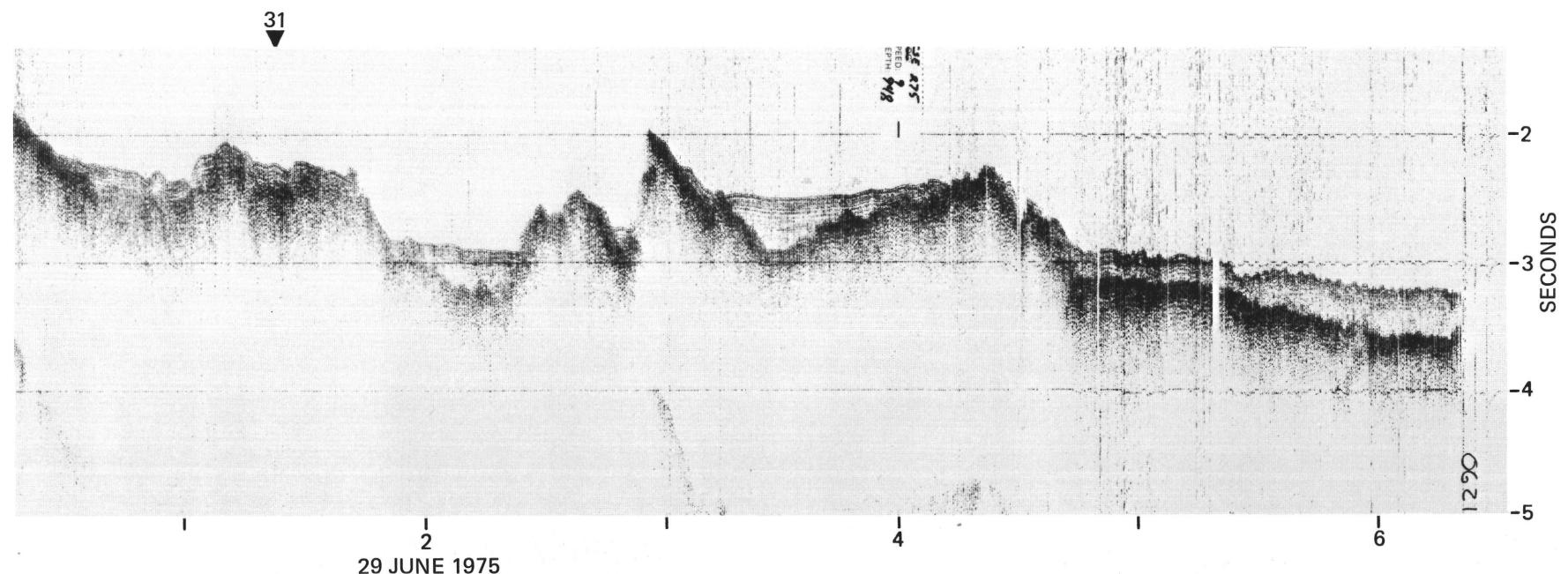
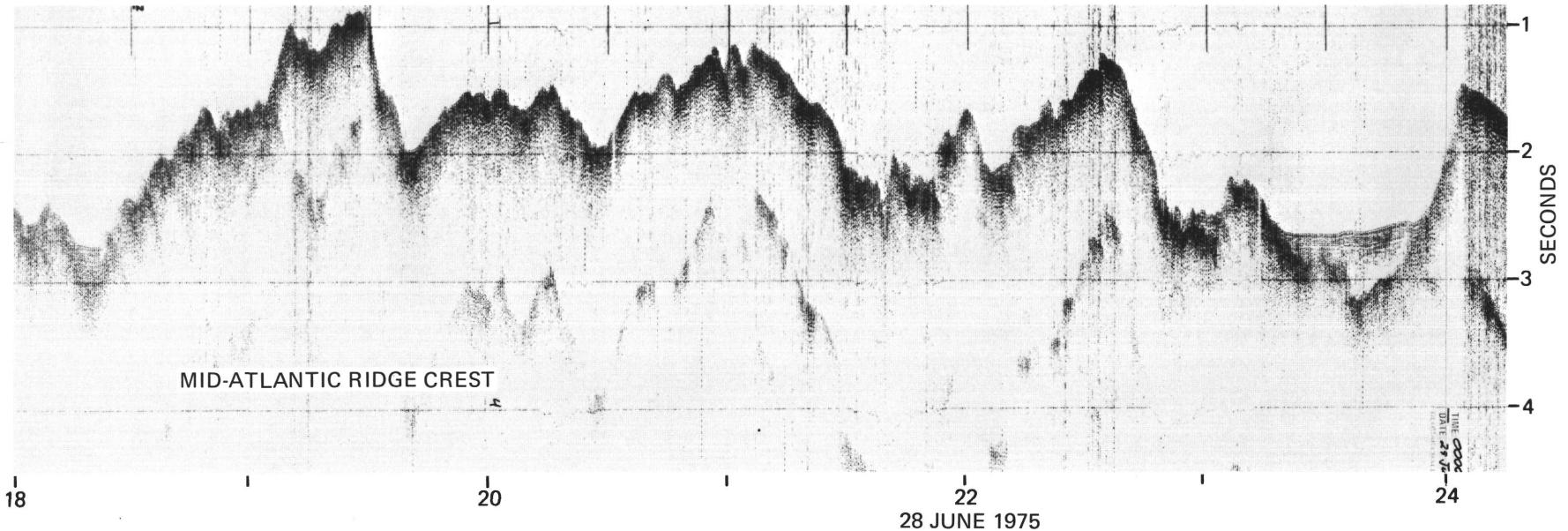


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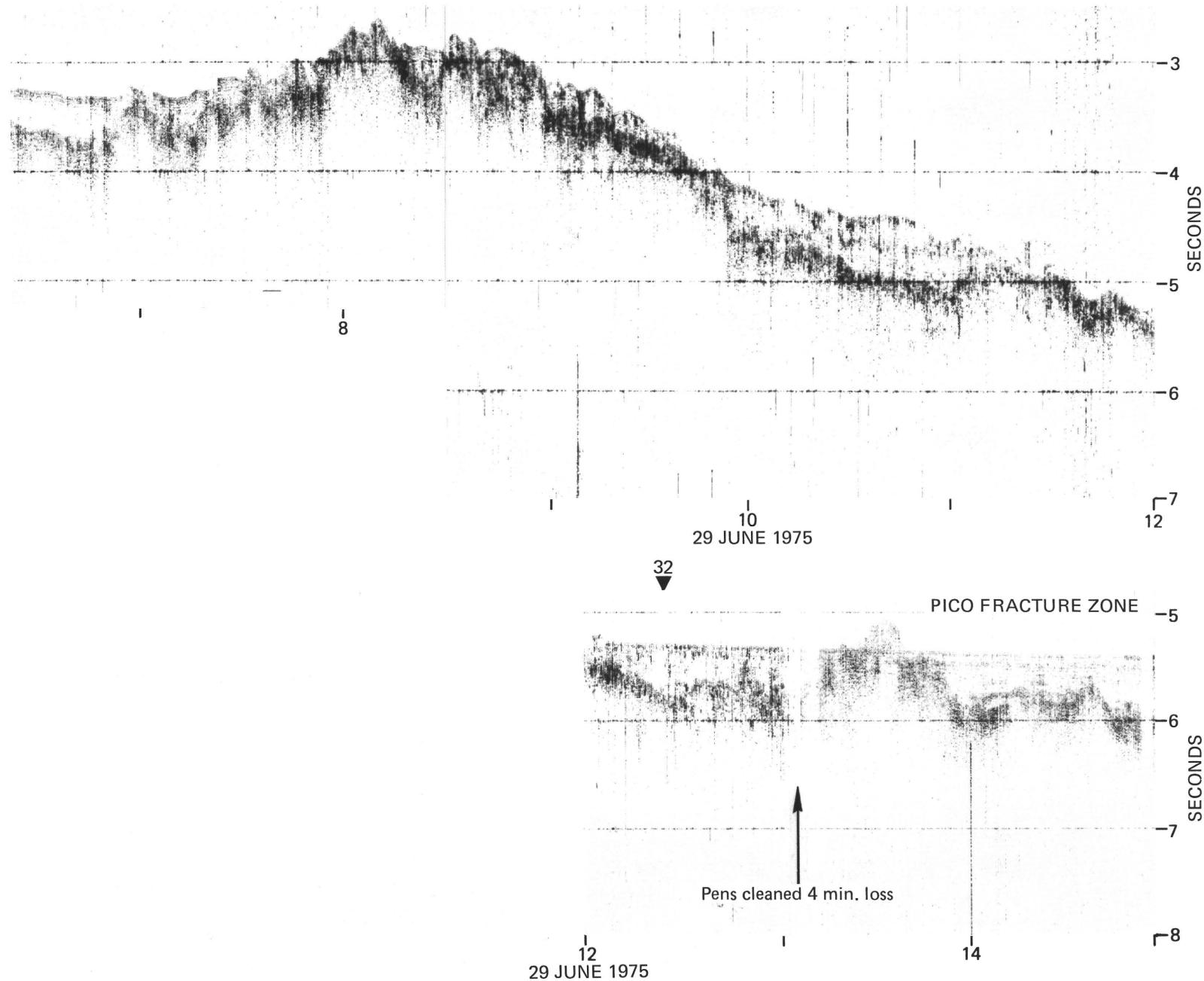


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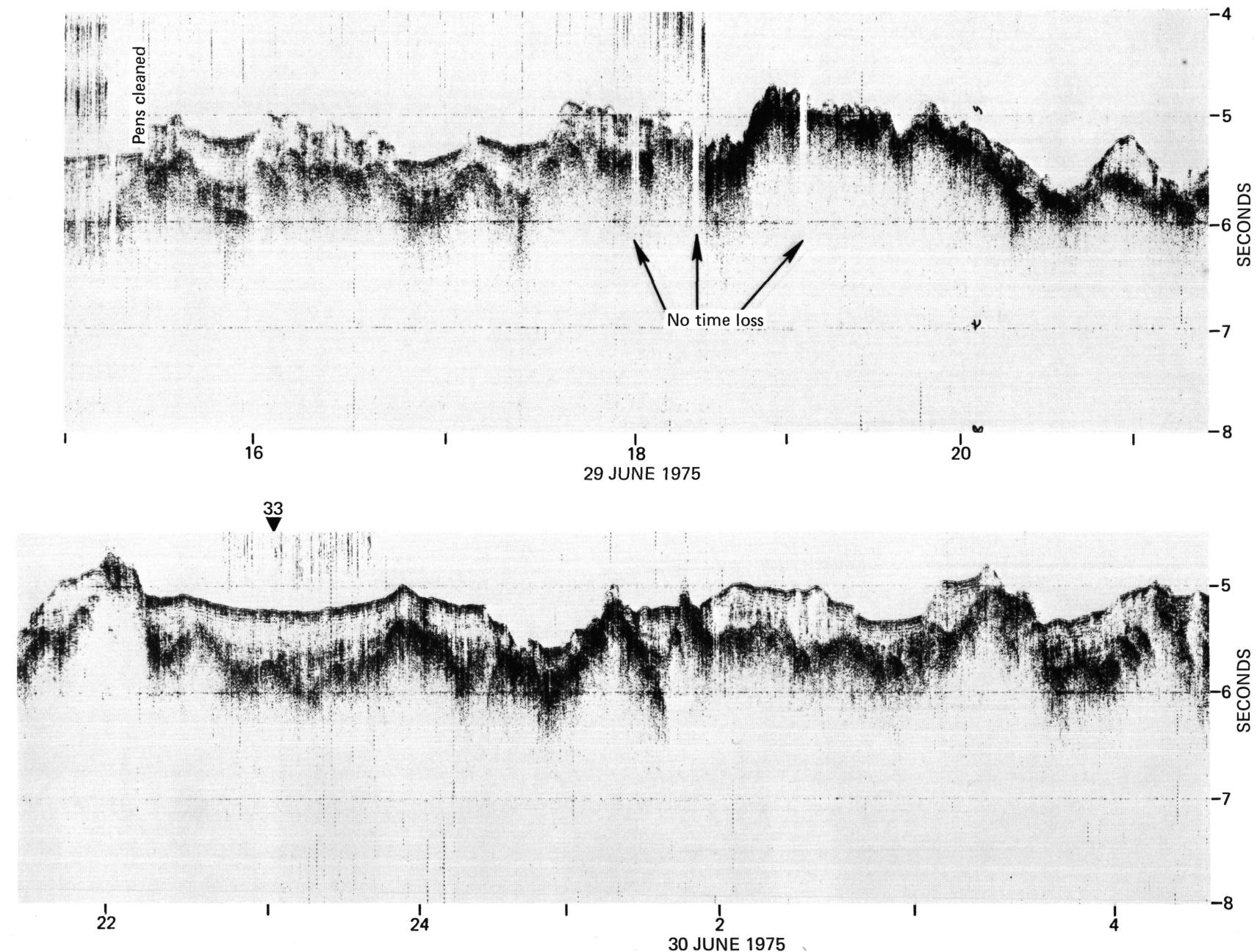


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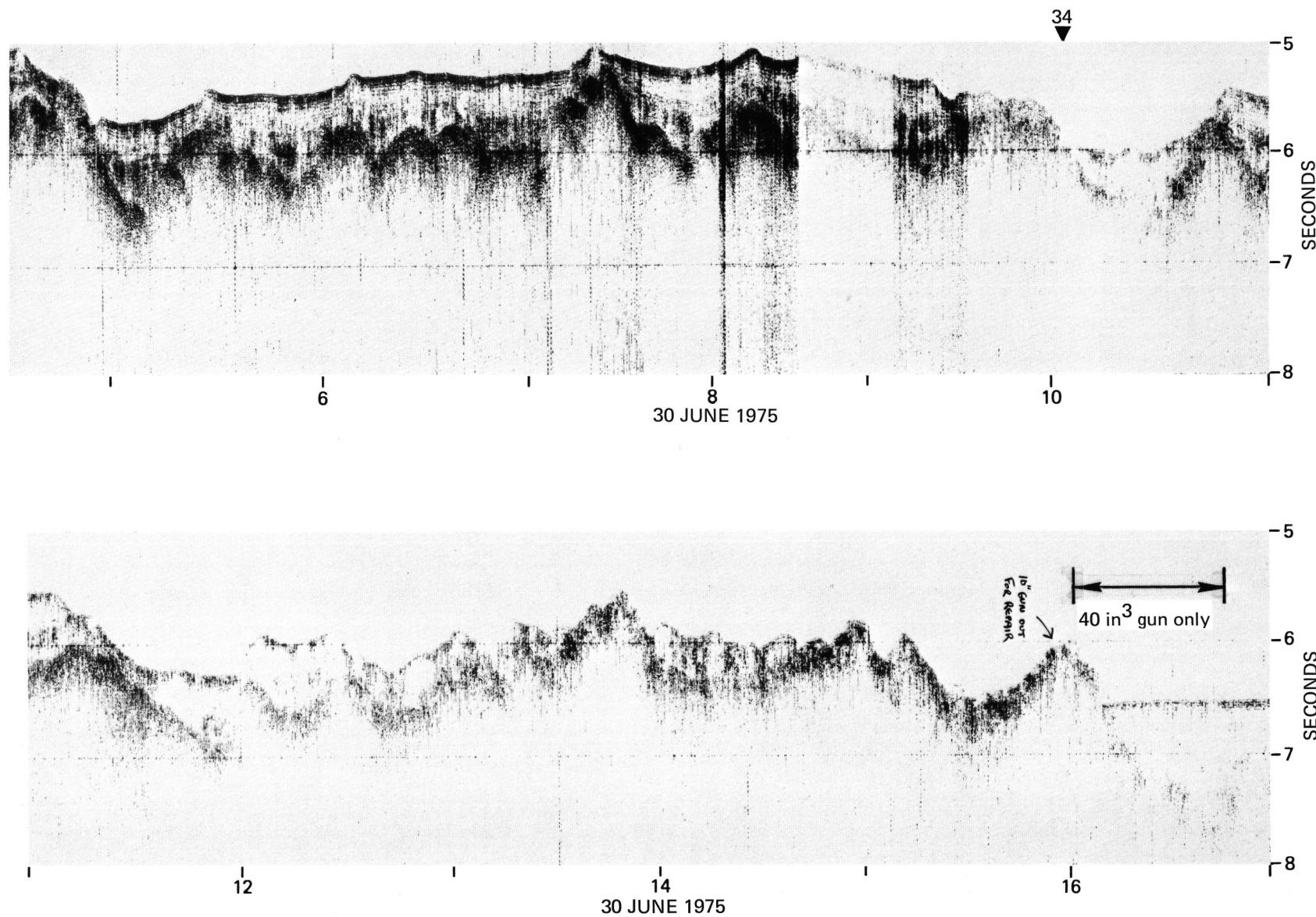


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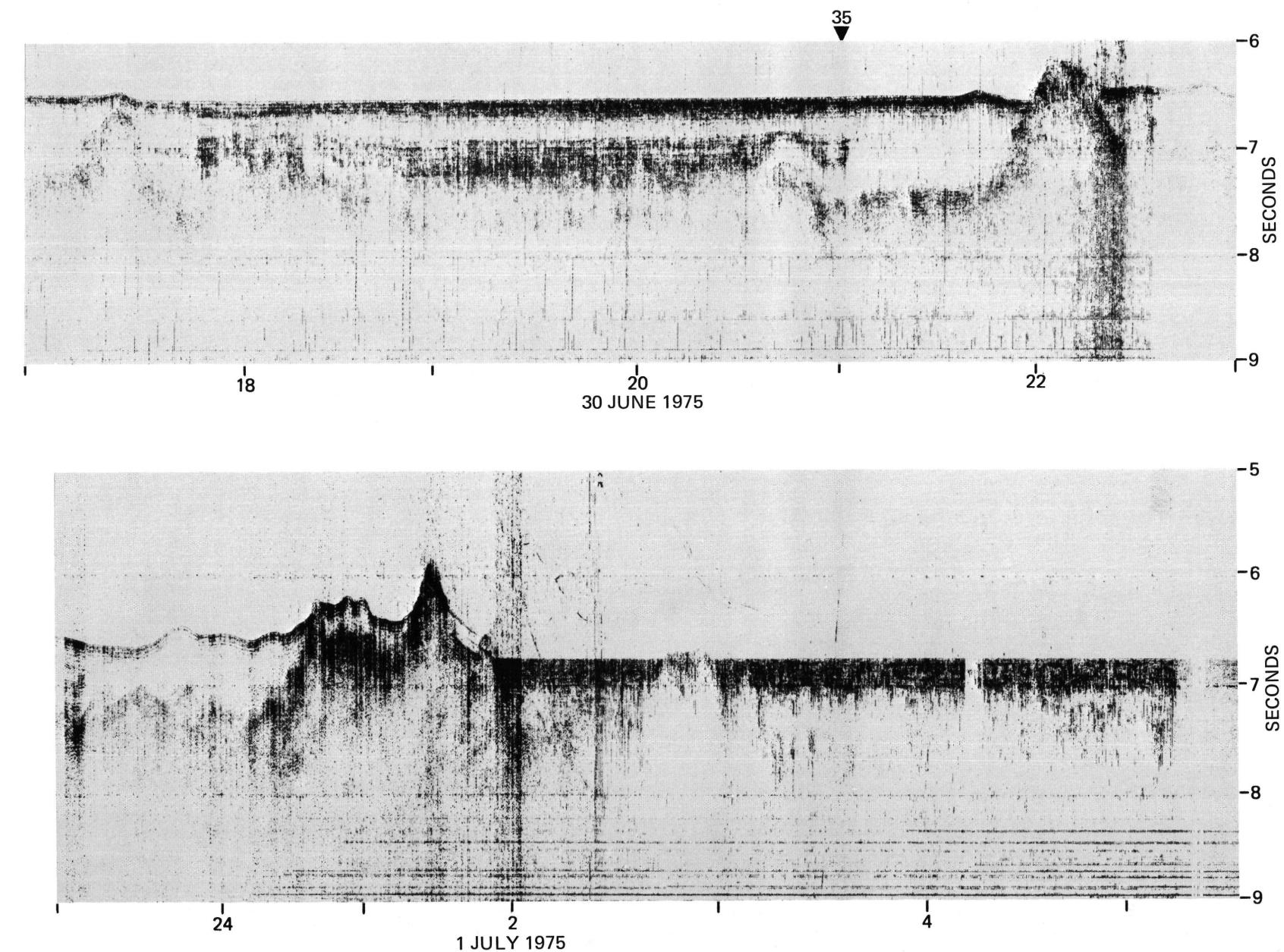


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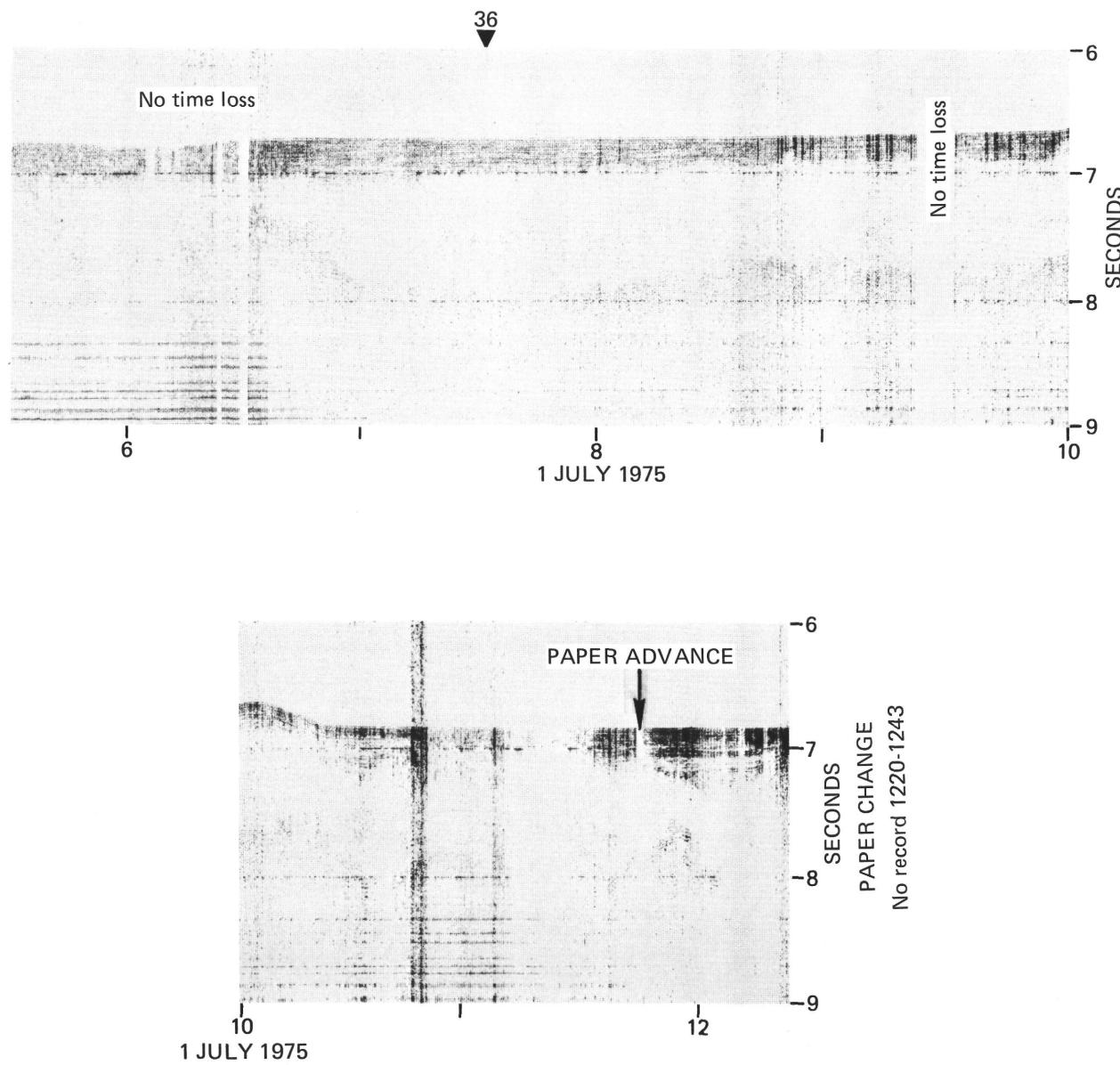


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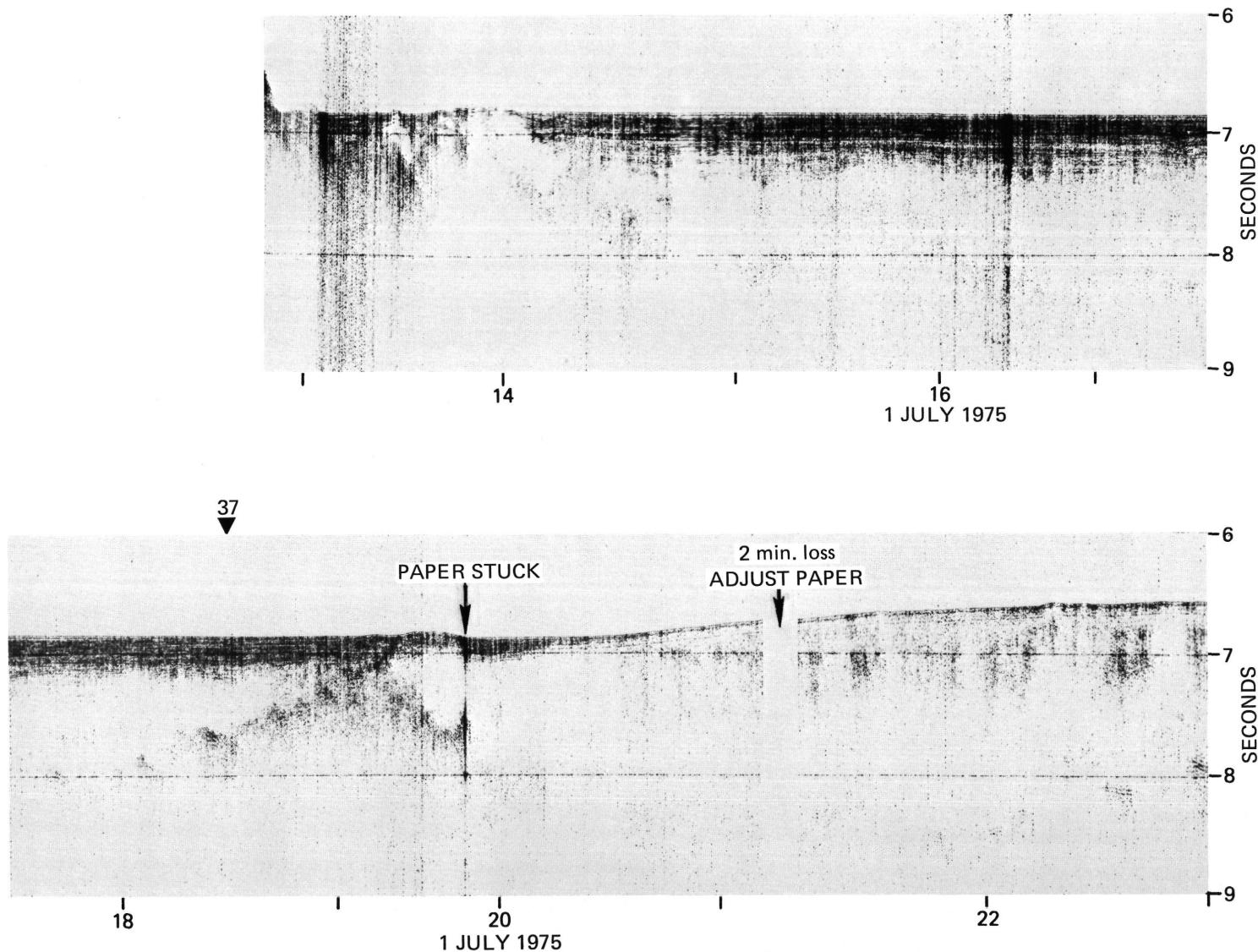


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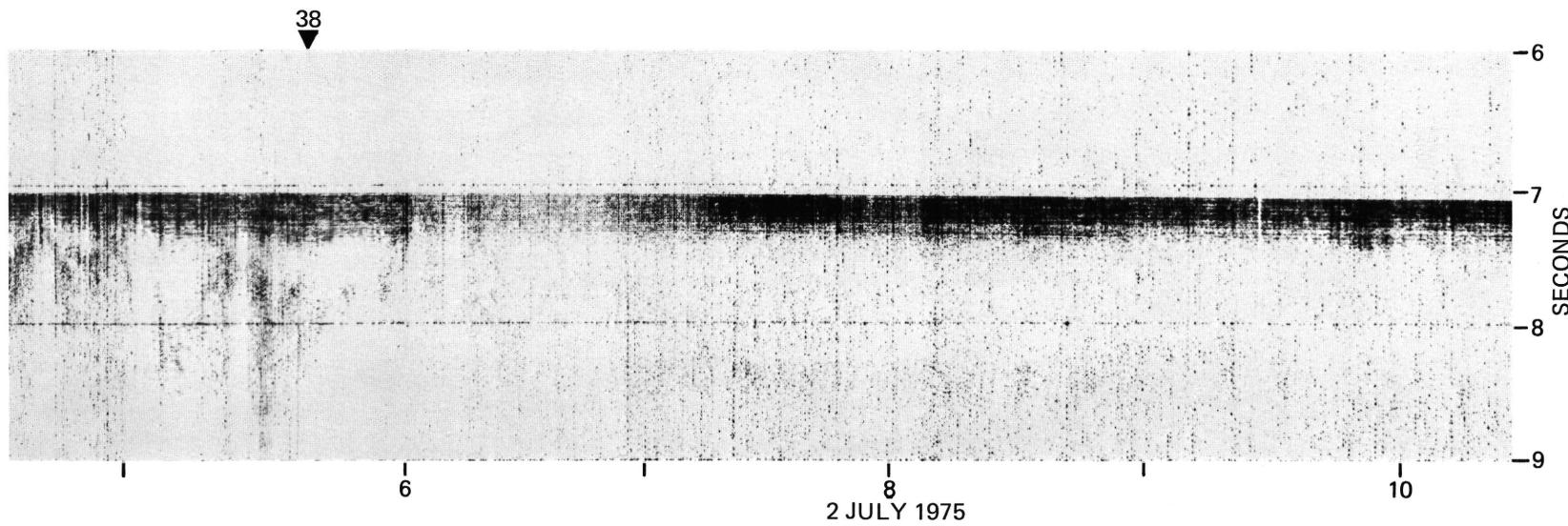
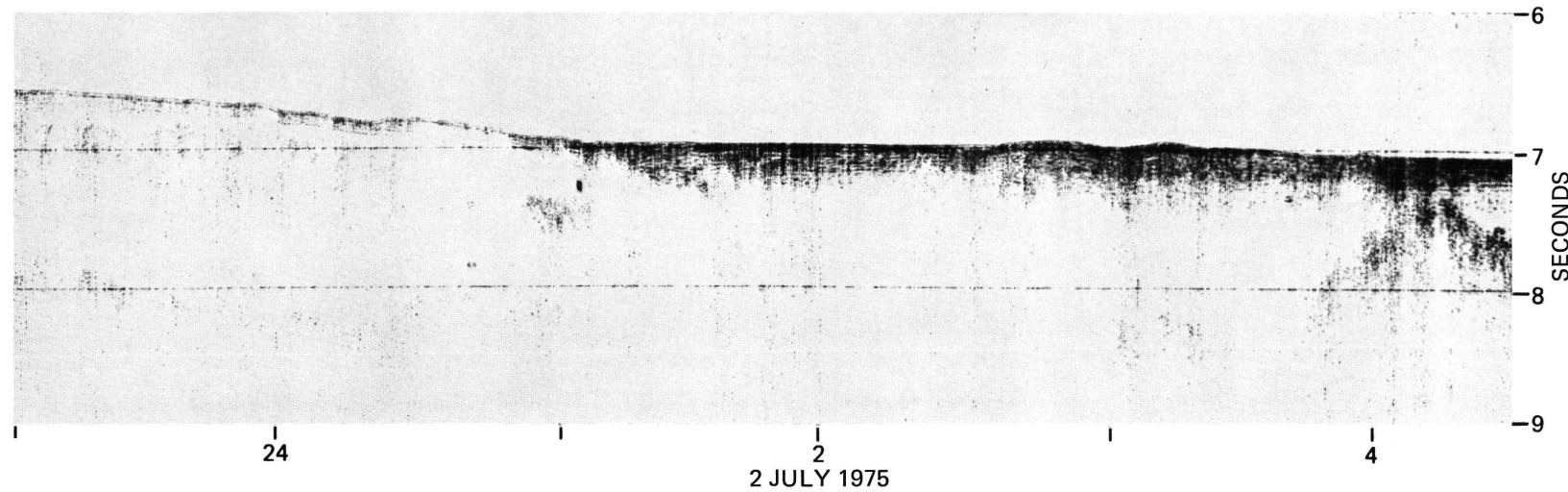


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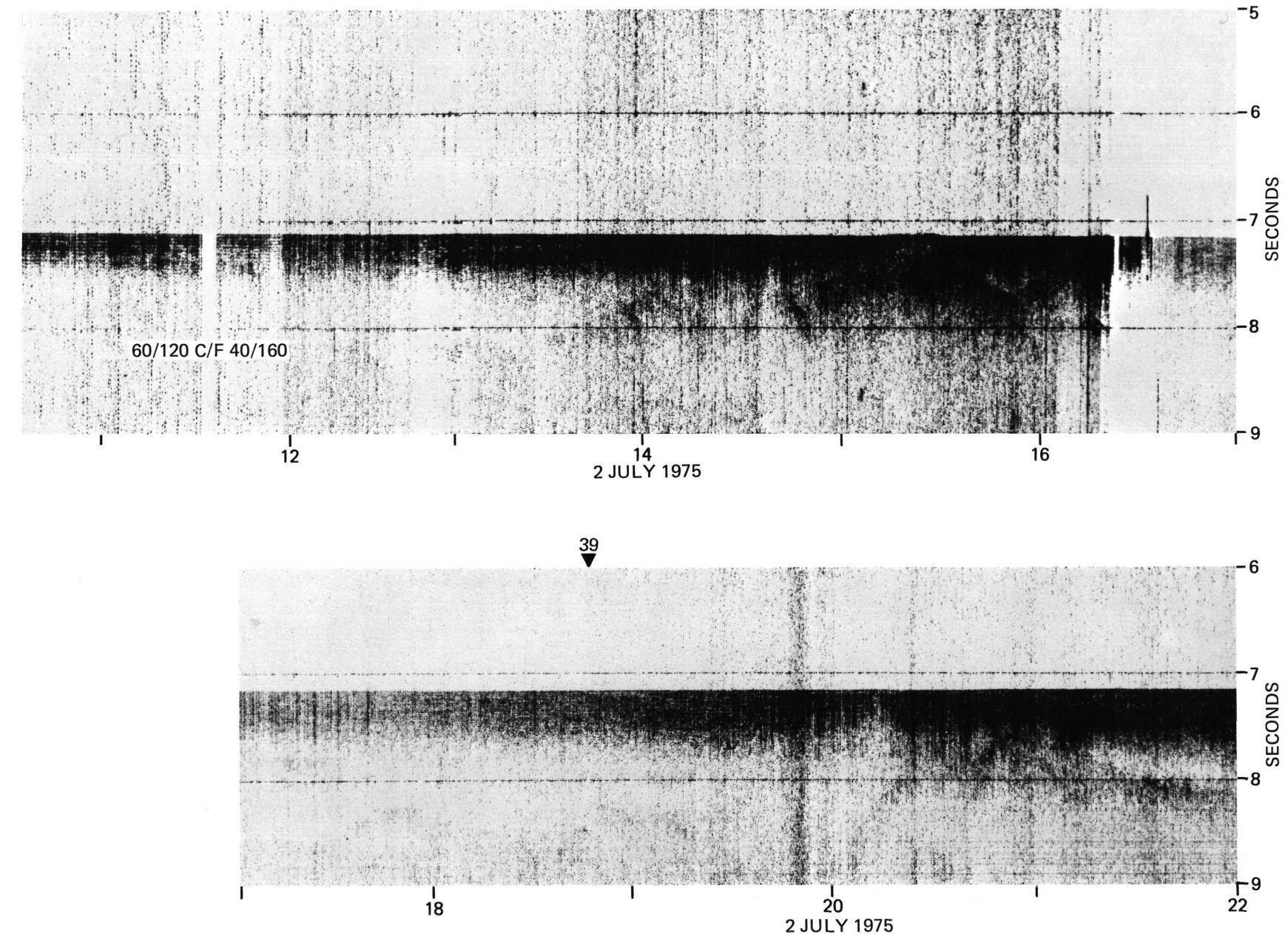


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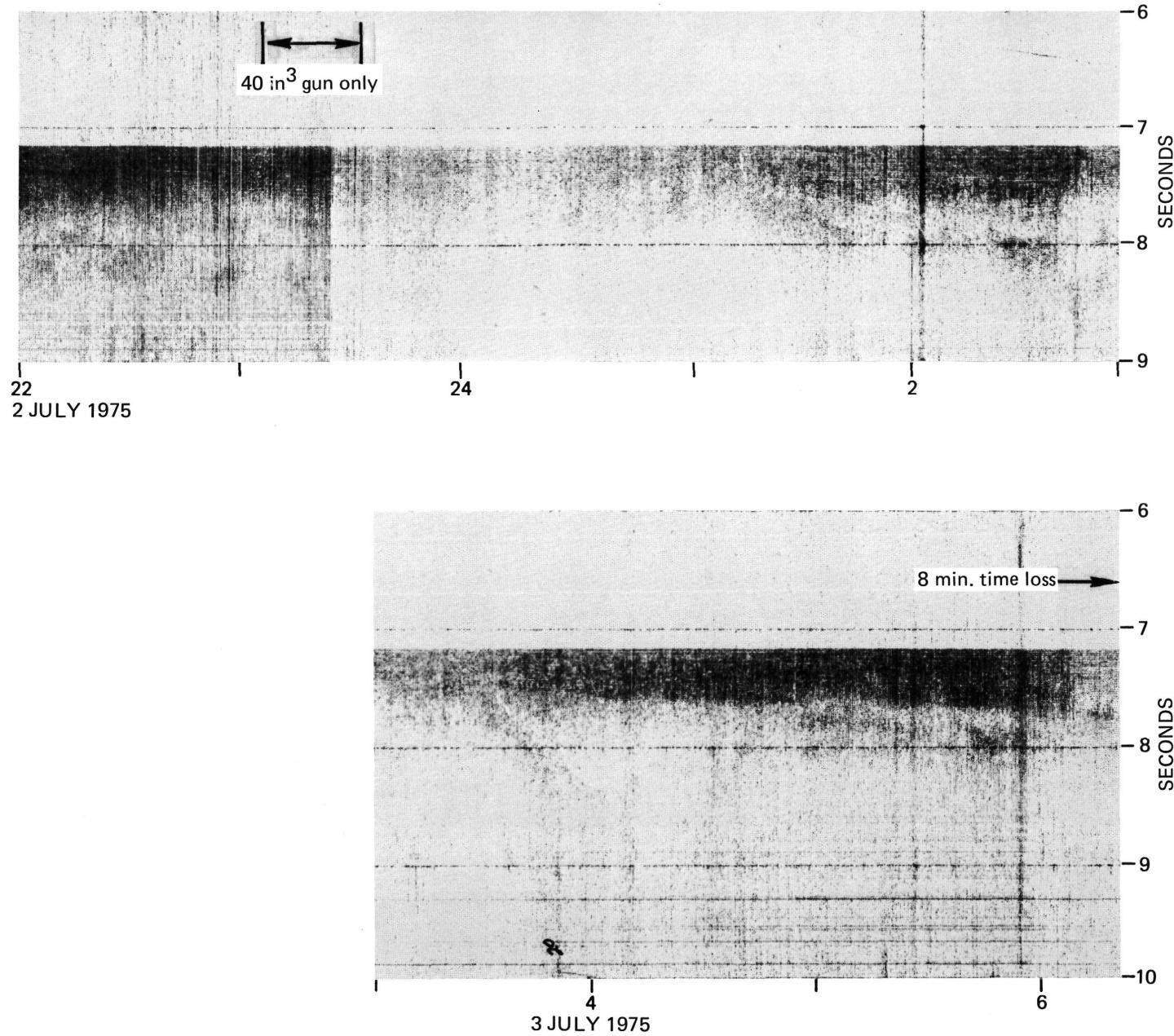
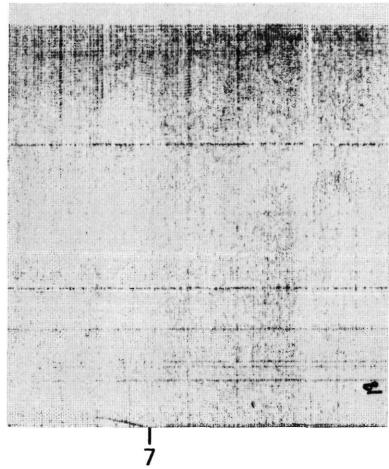


Figure 2. (Continued).



~45 min. time loss

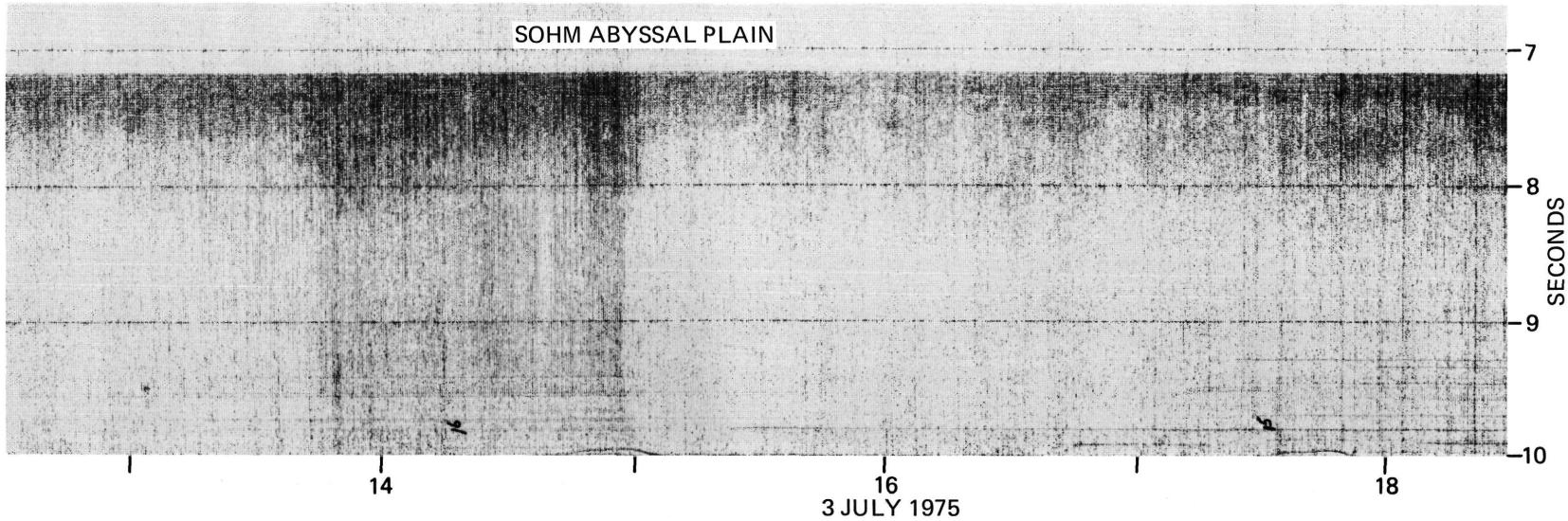
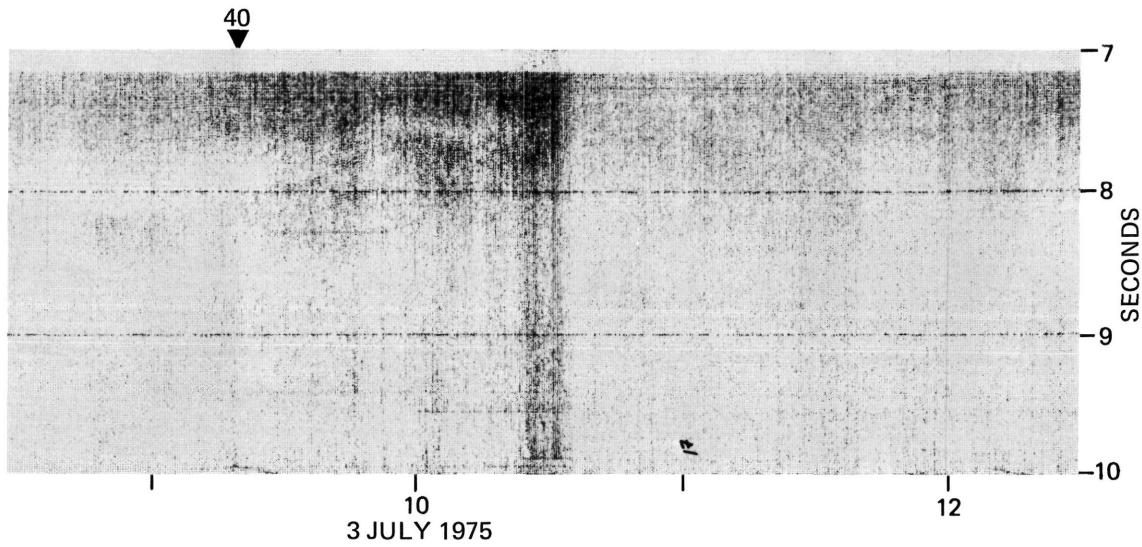


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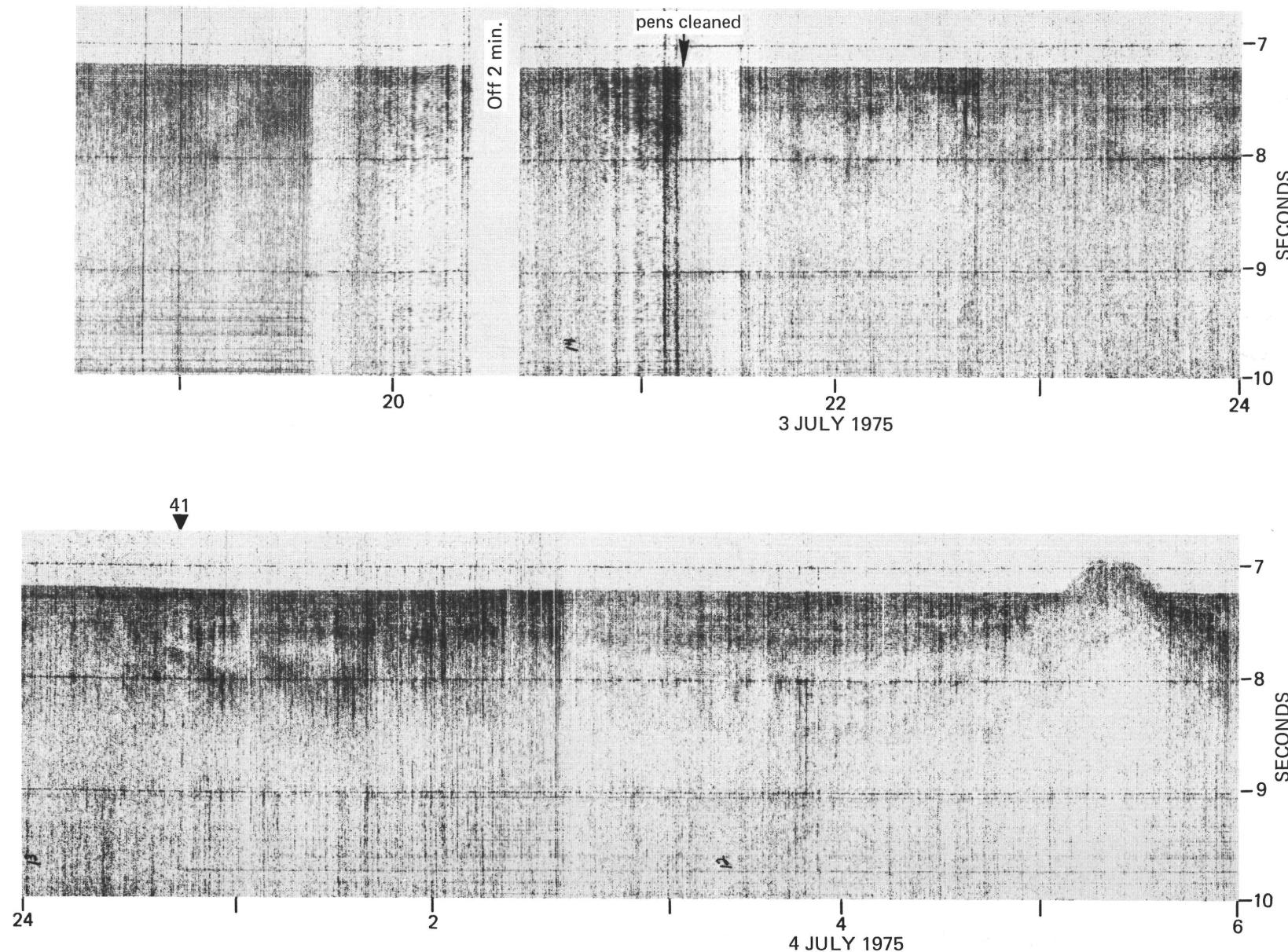


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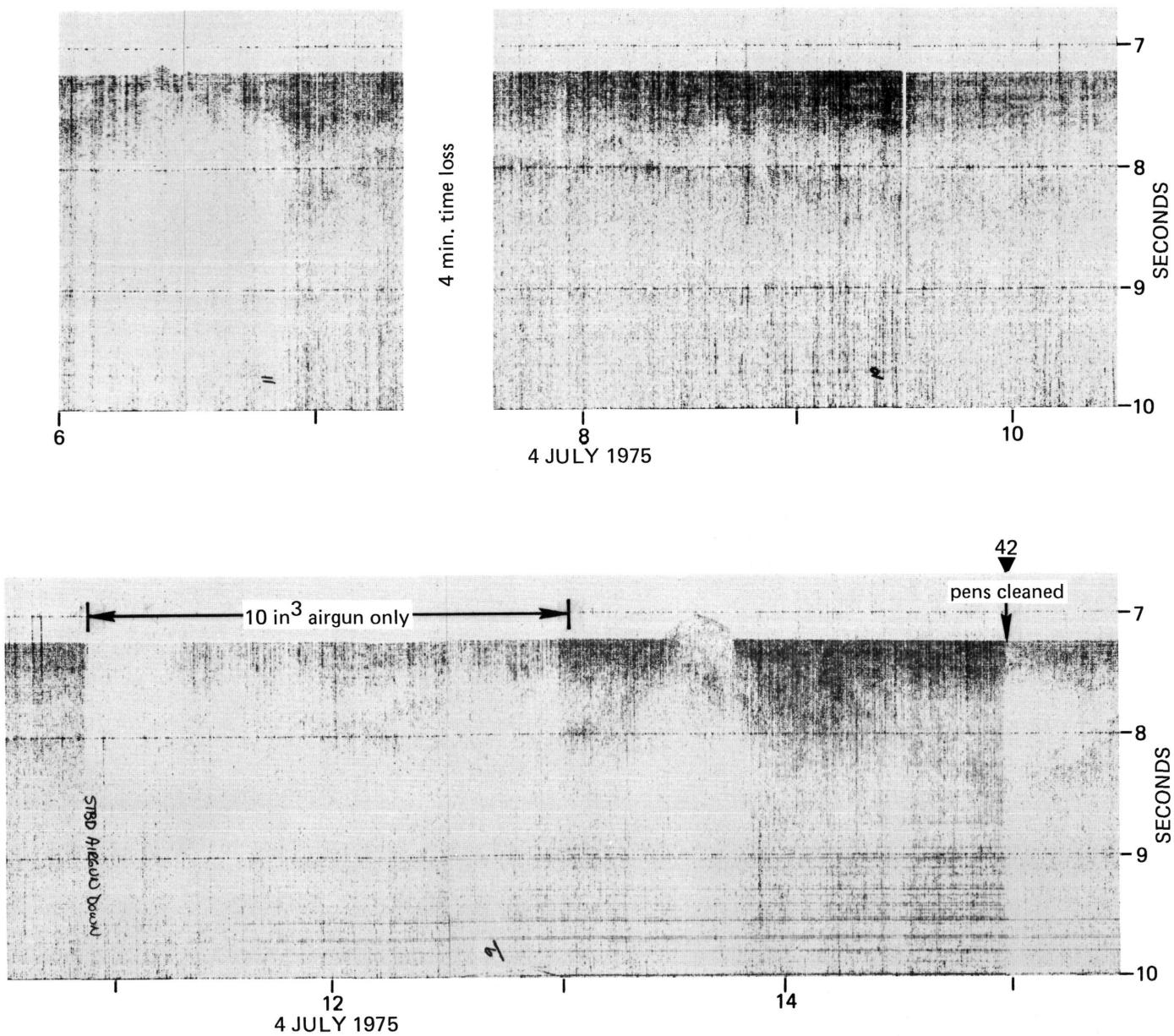


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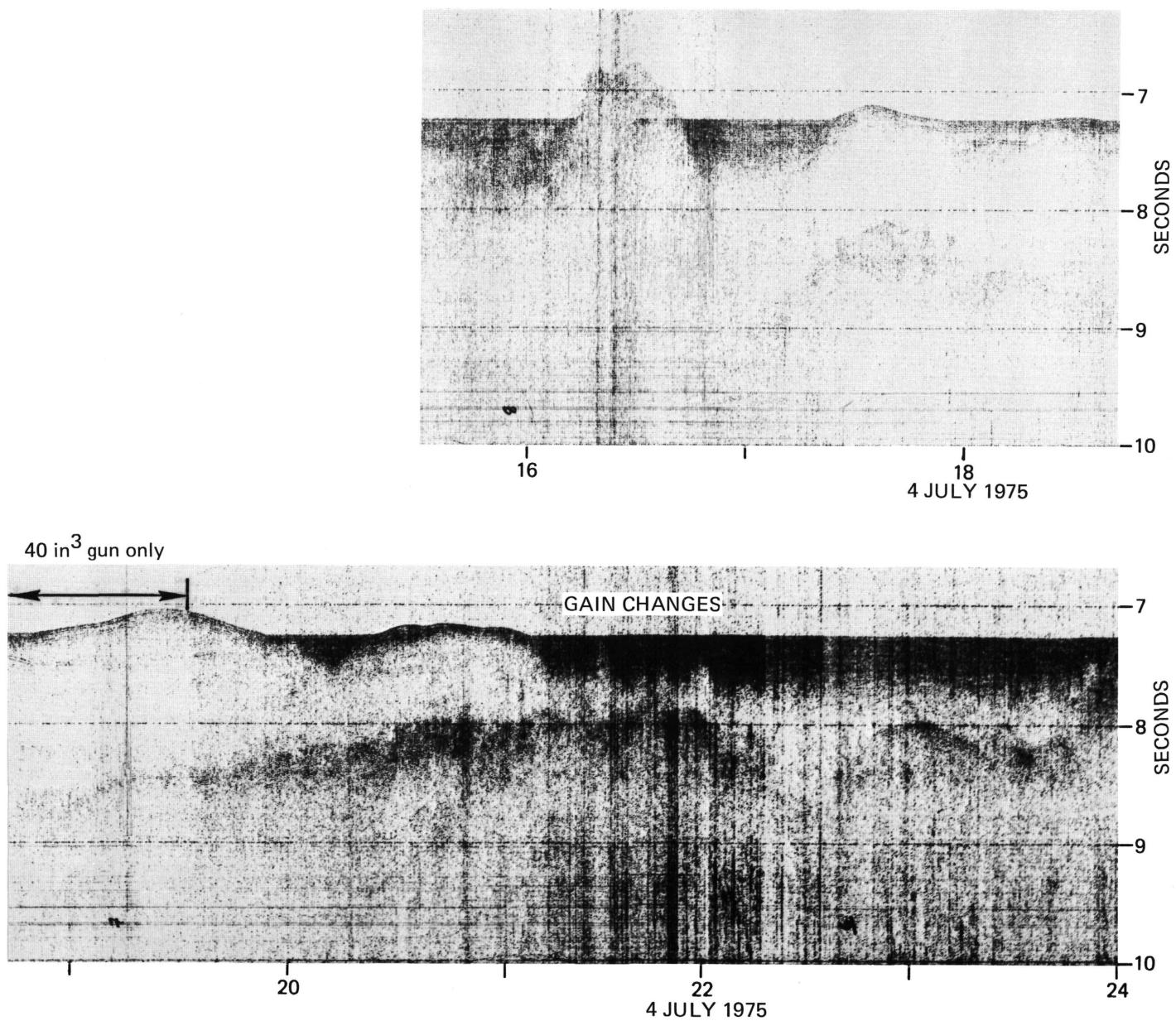


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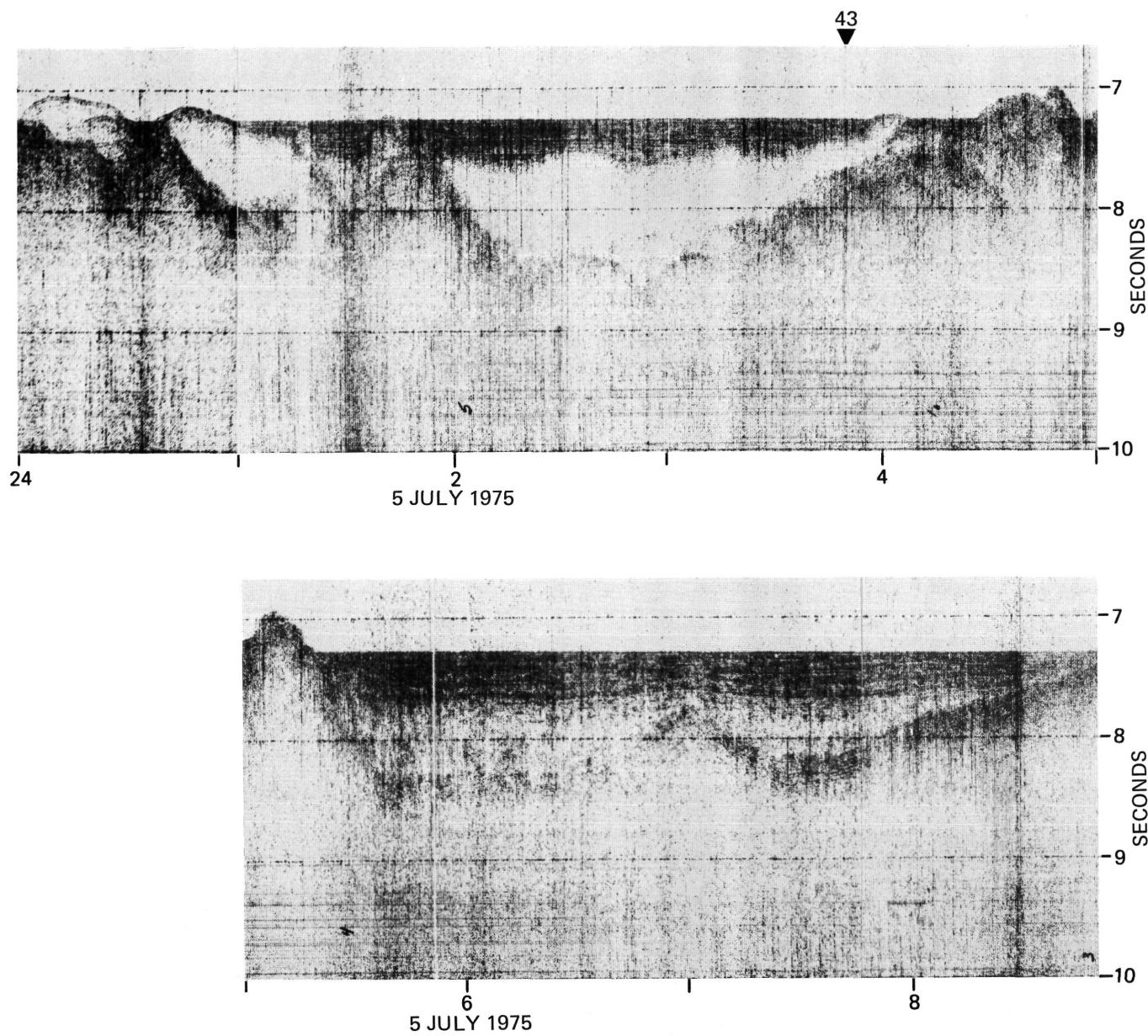


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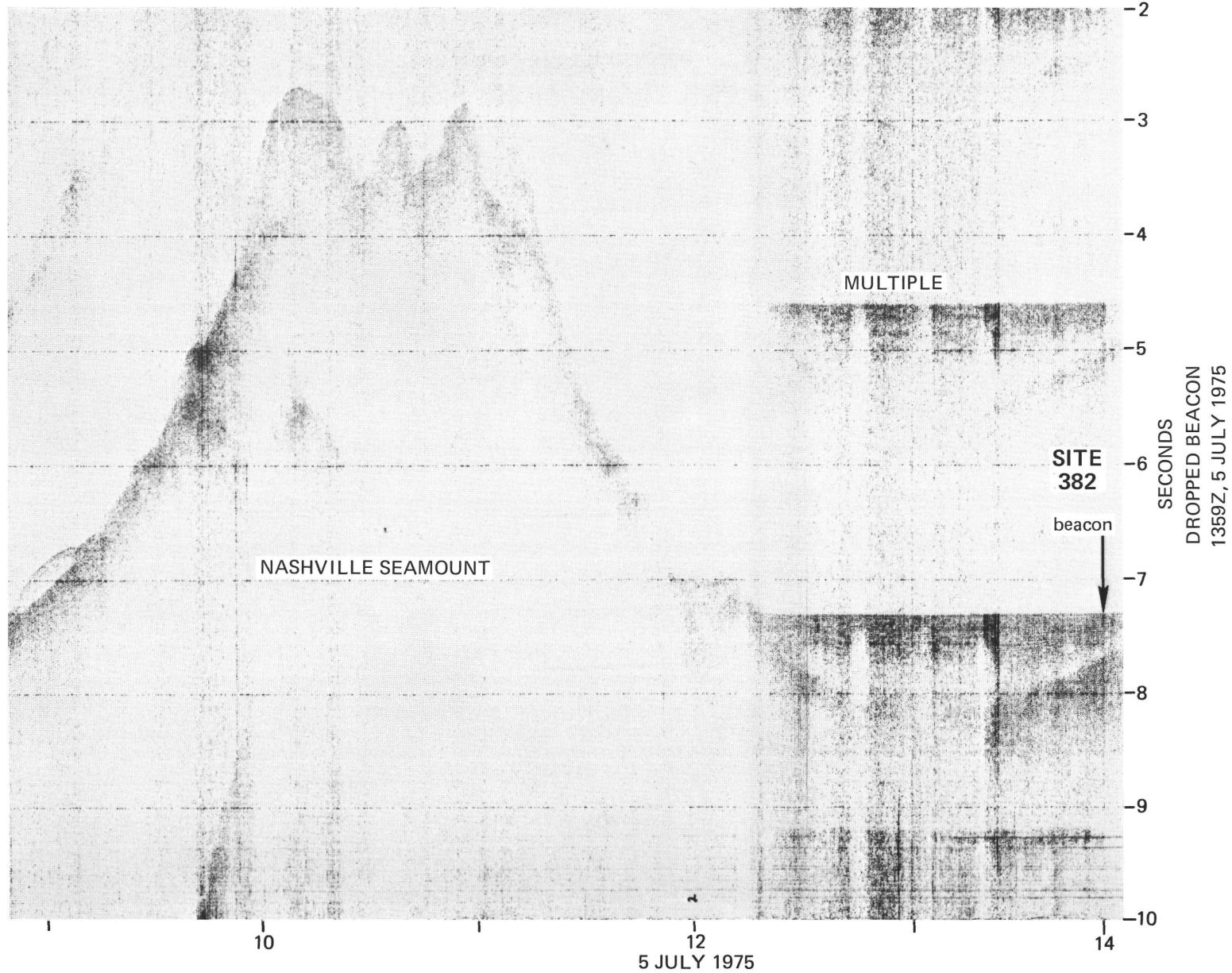


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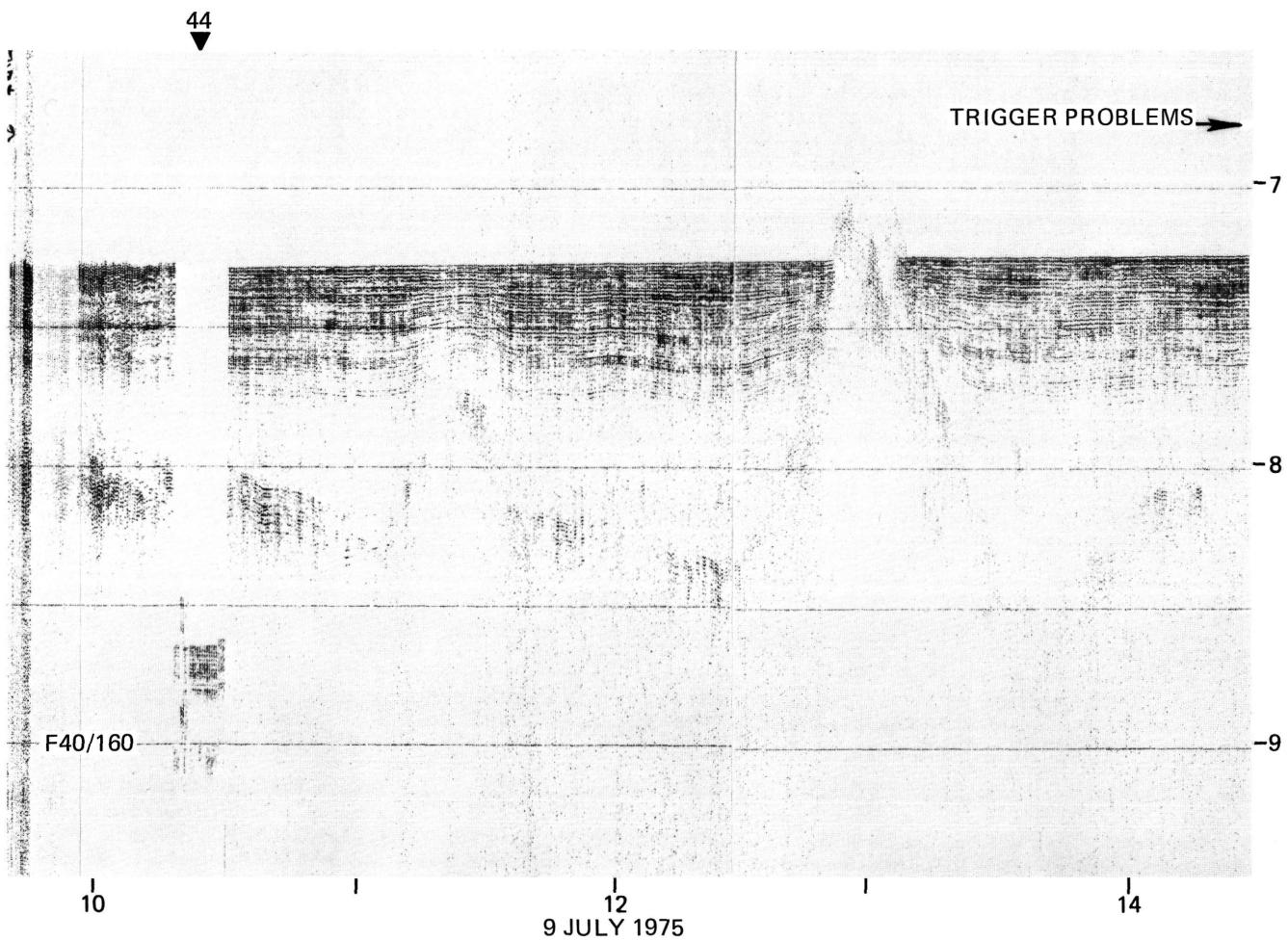


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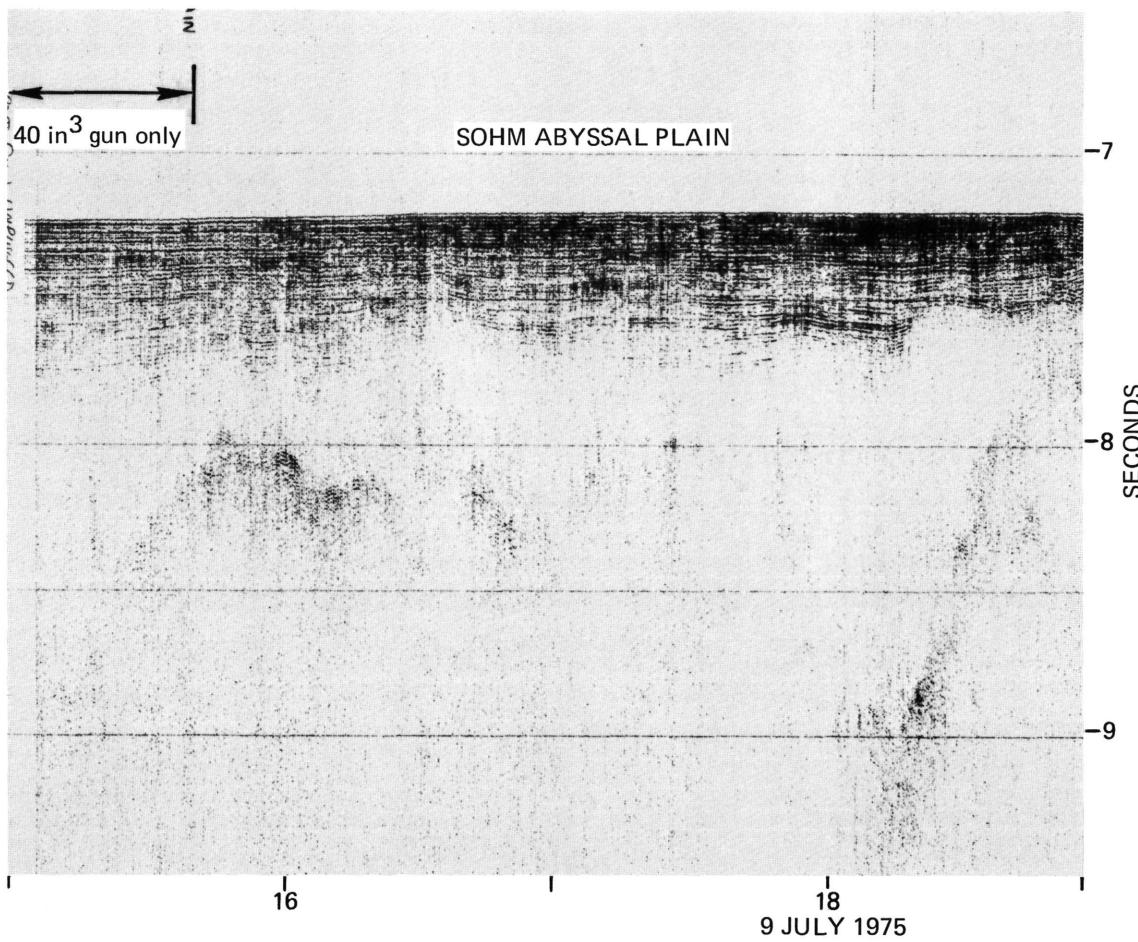


Figure 2. (*Continued*).

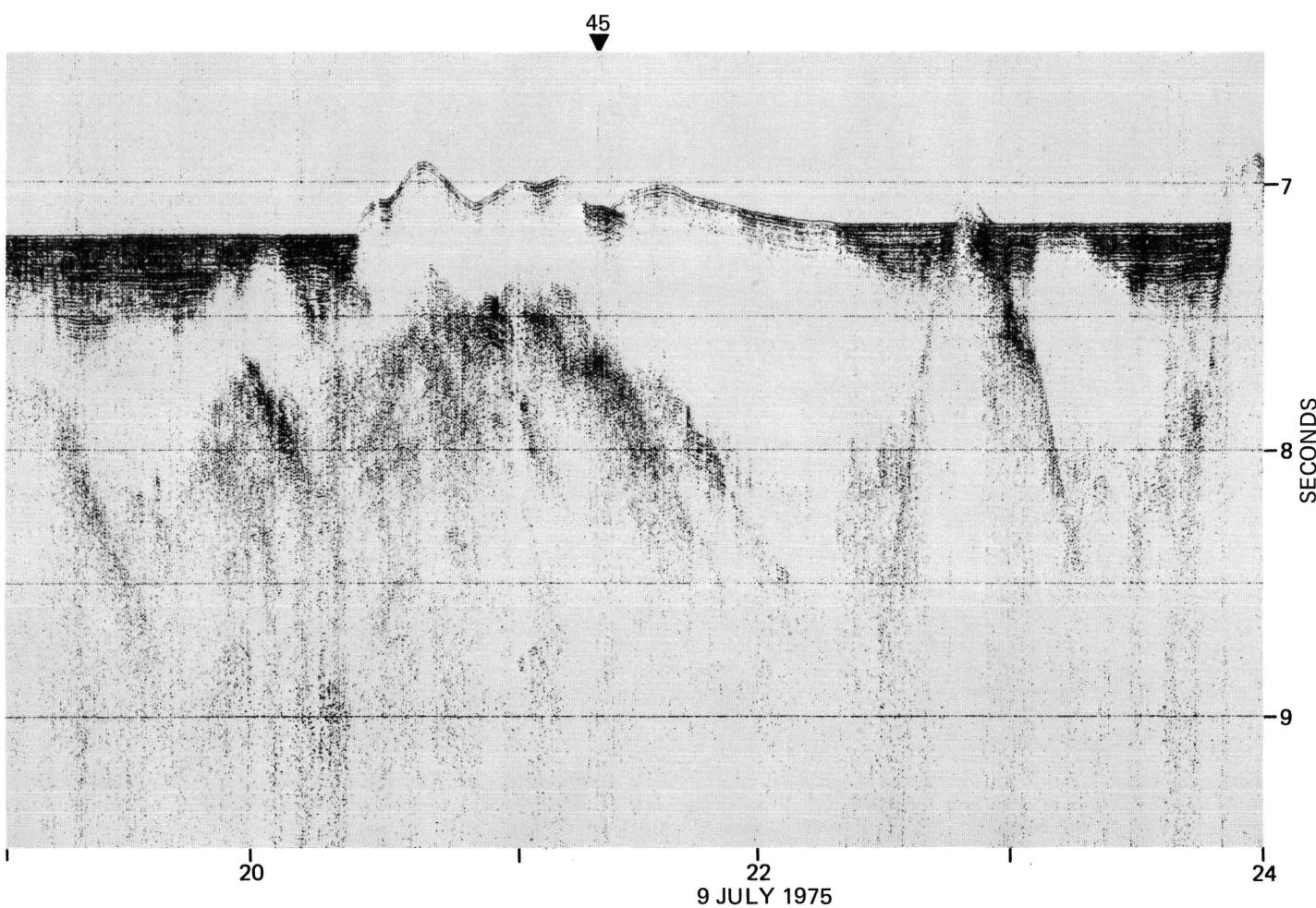
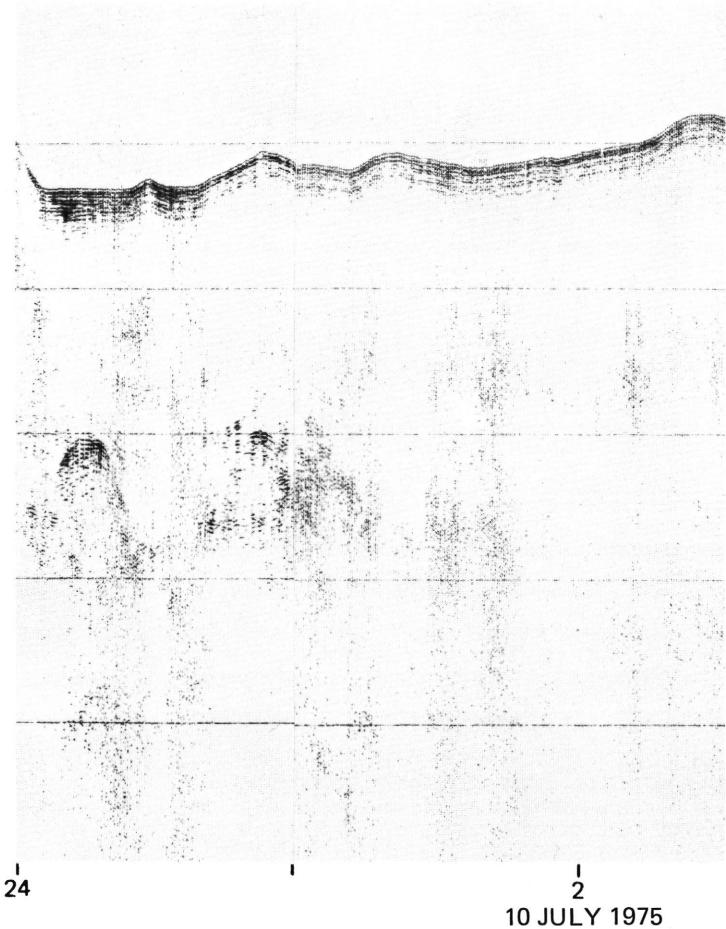


Figure 2. (Continued).



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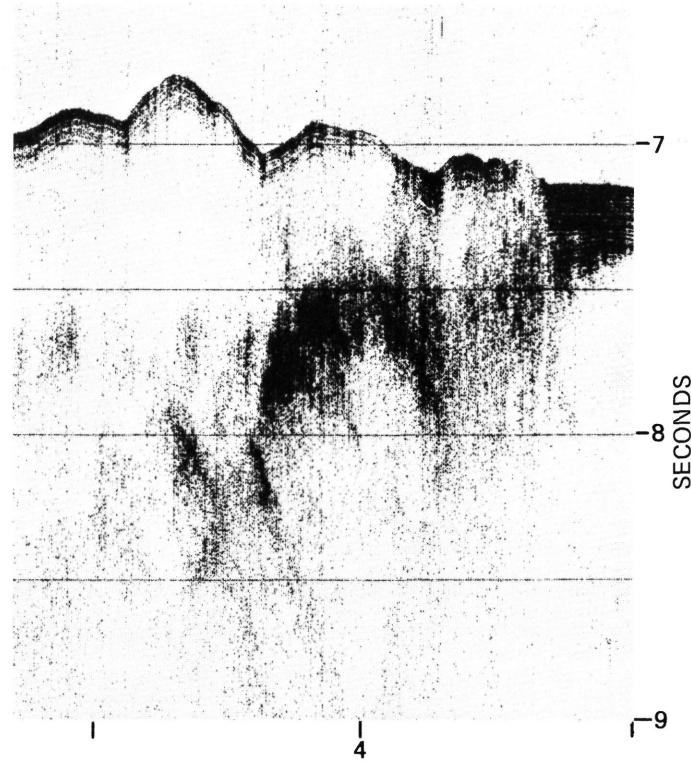


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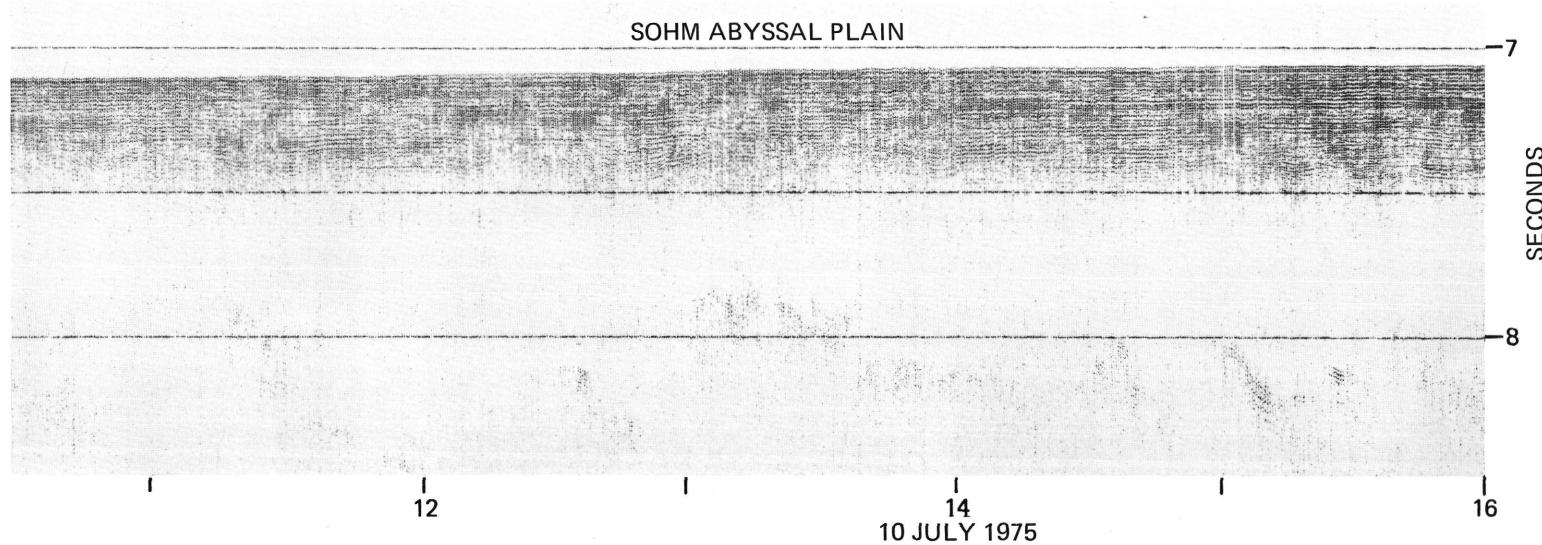
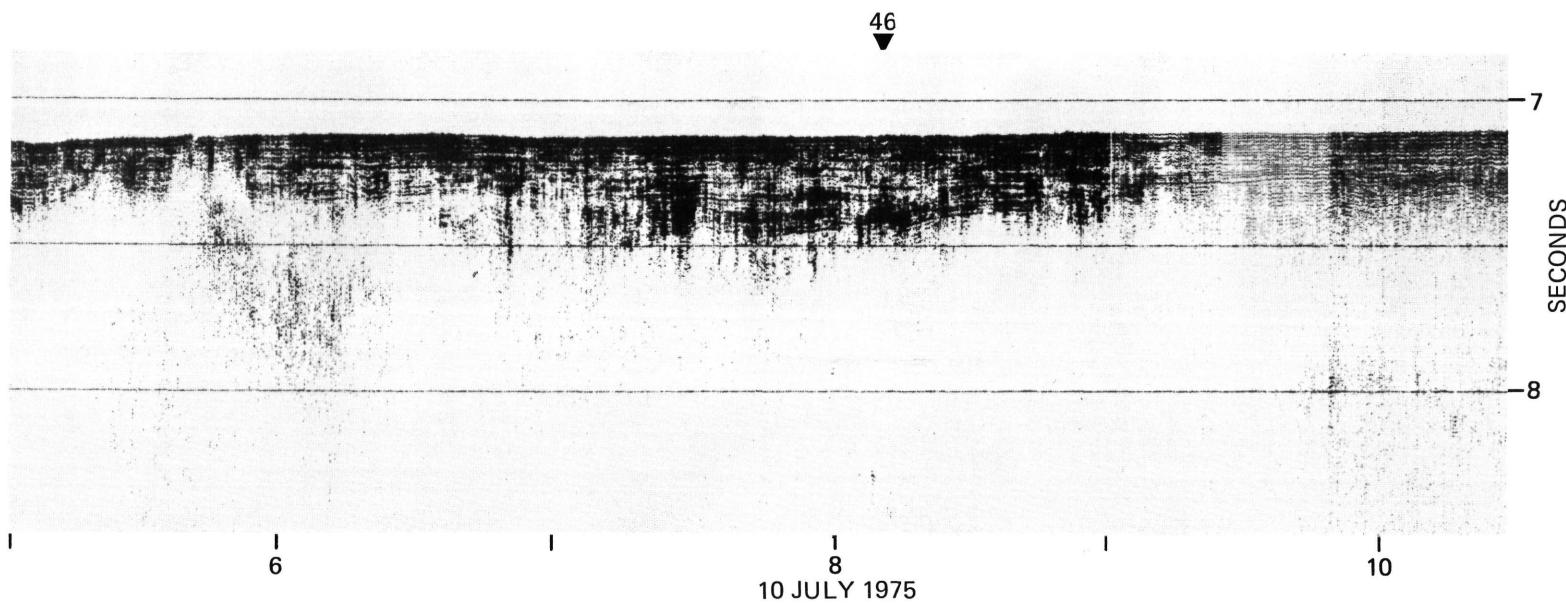


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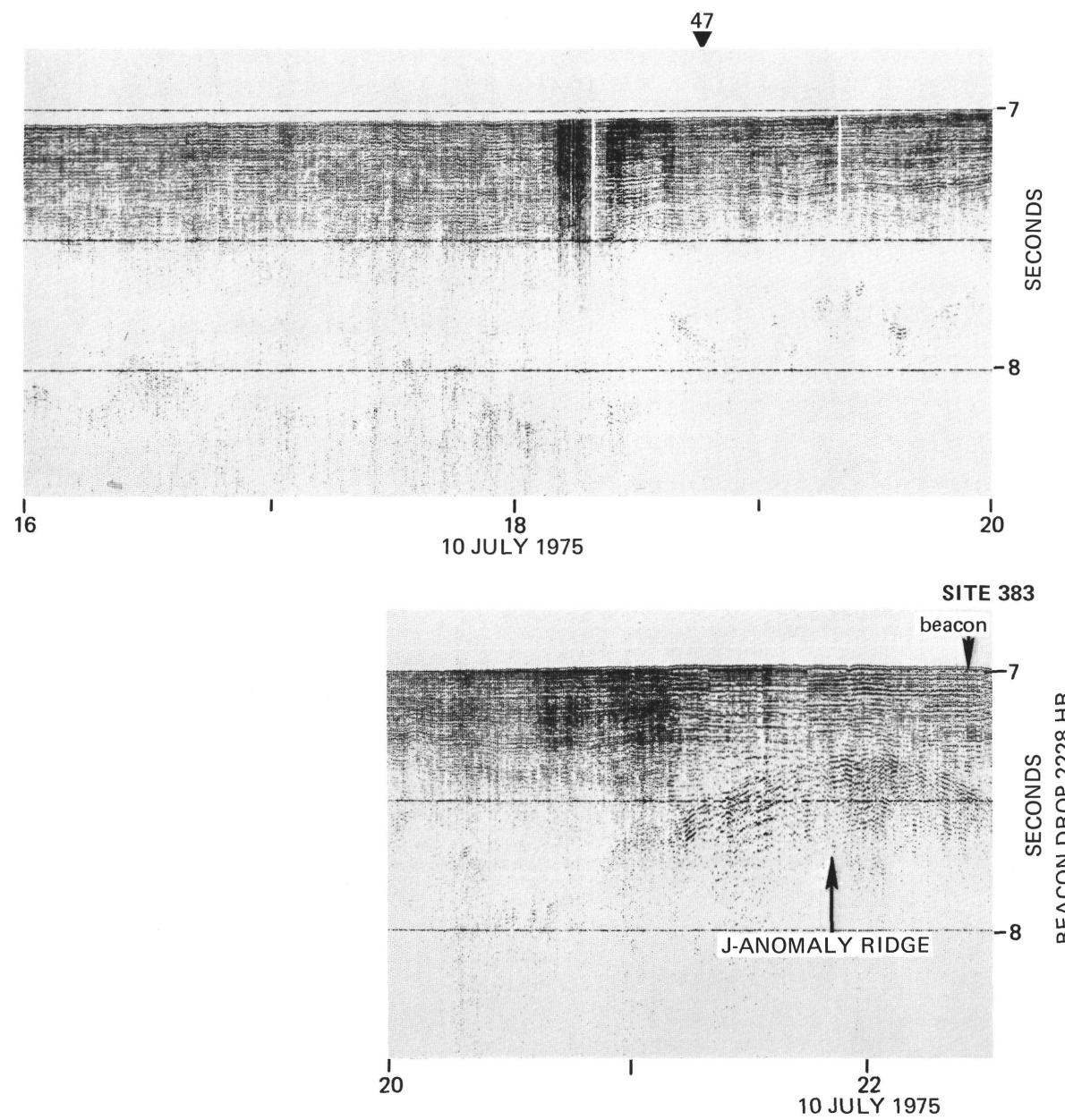


Figure 2. (Continued).

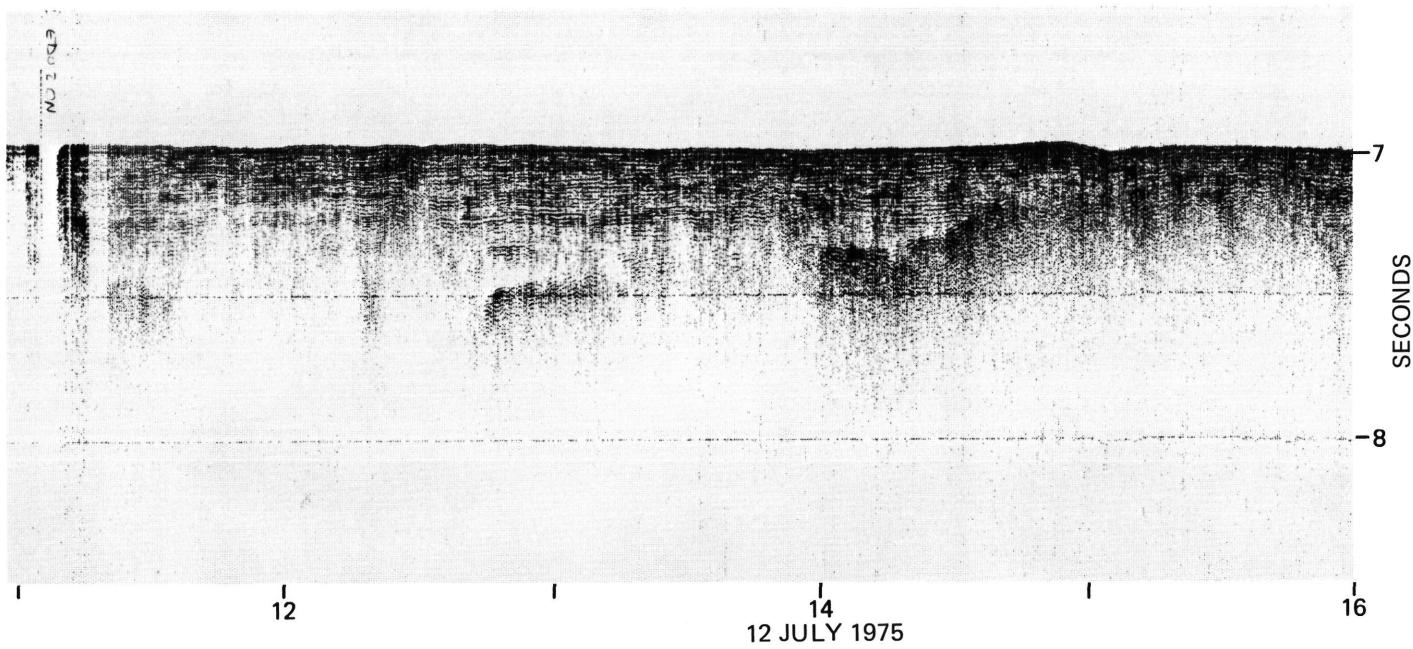


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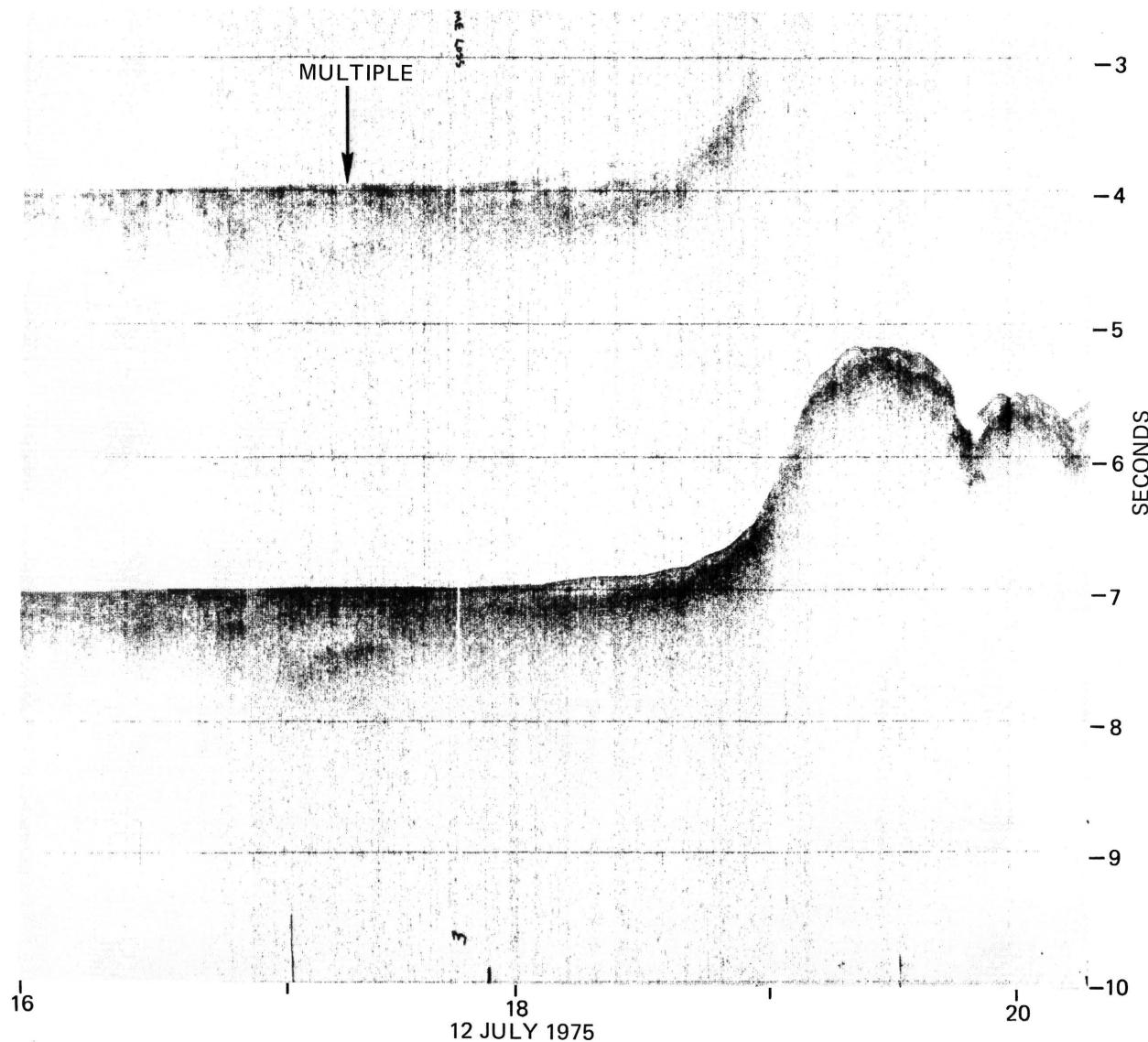


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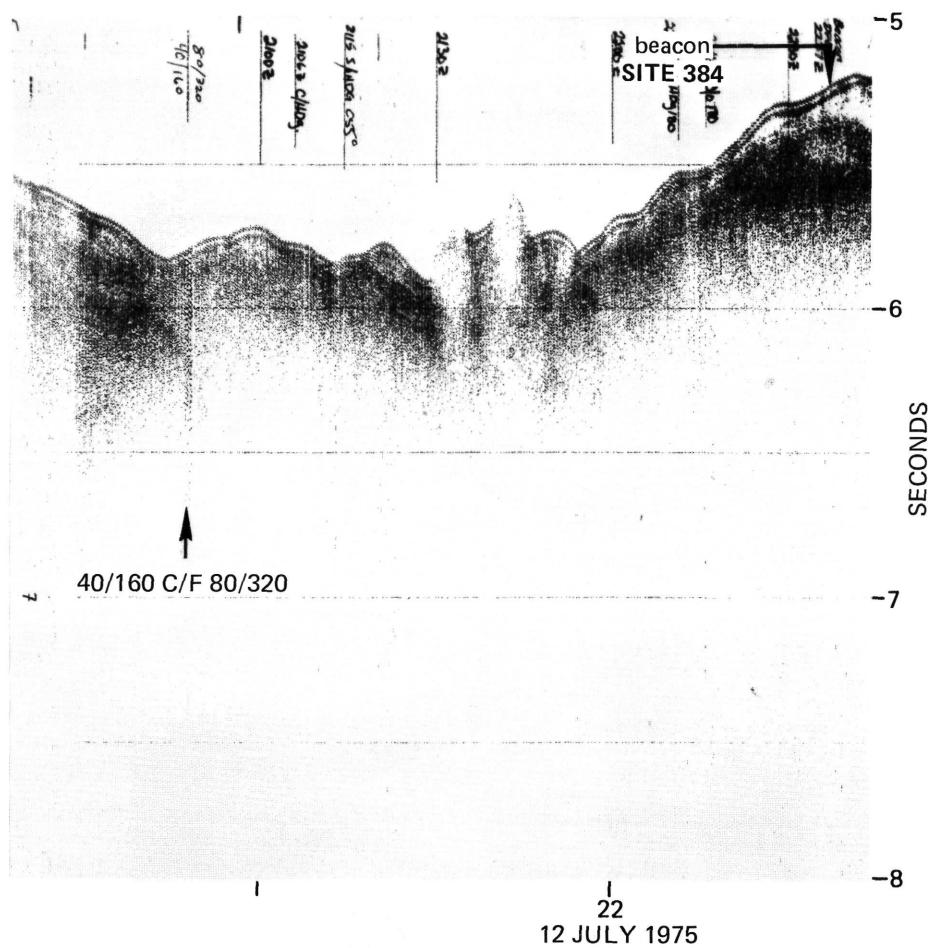


Figure 2. (Continued).

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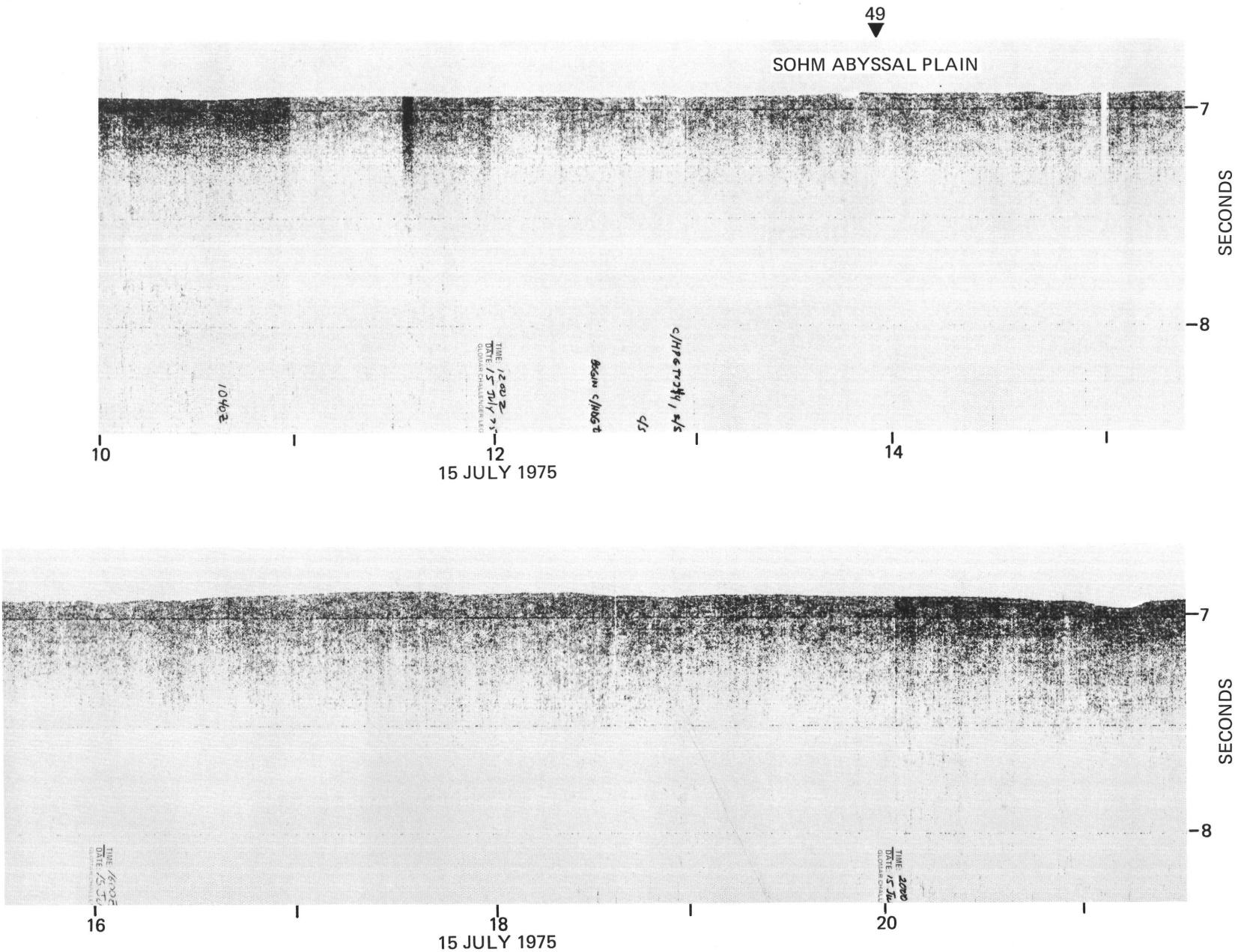


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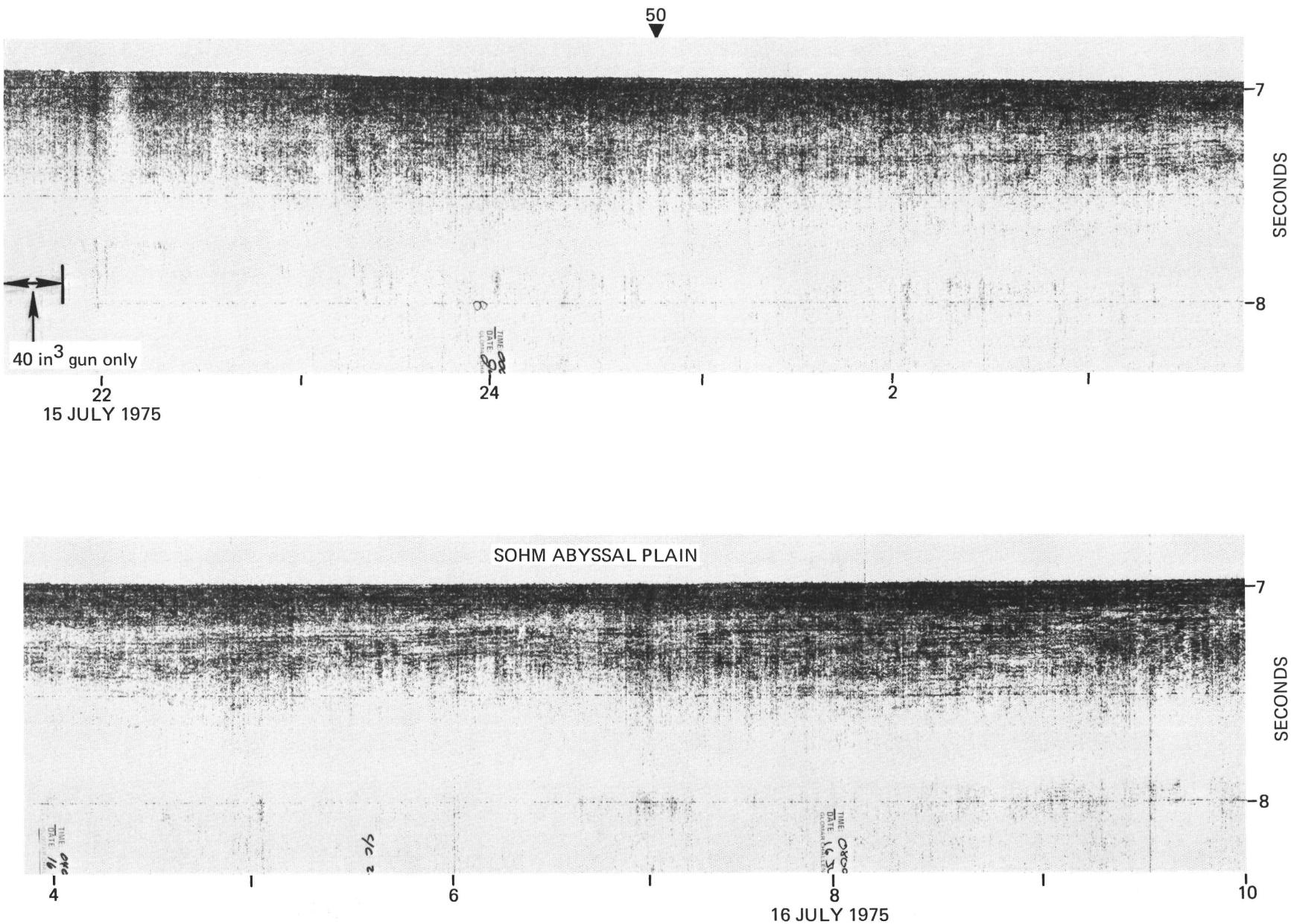


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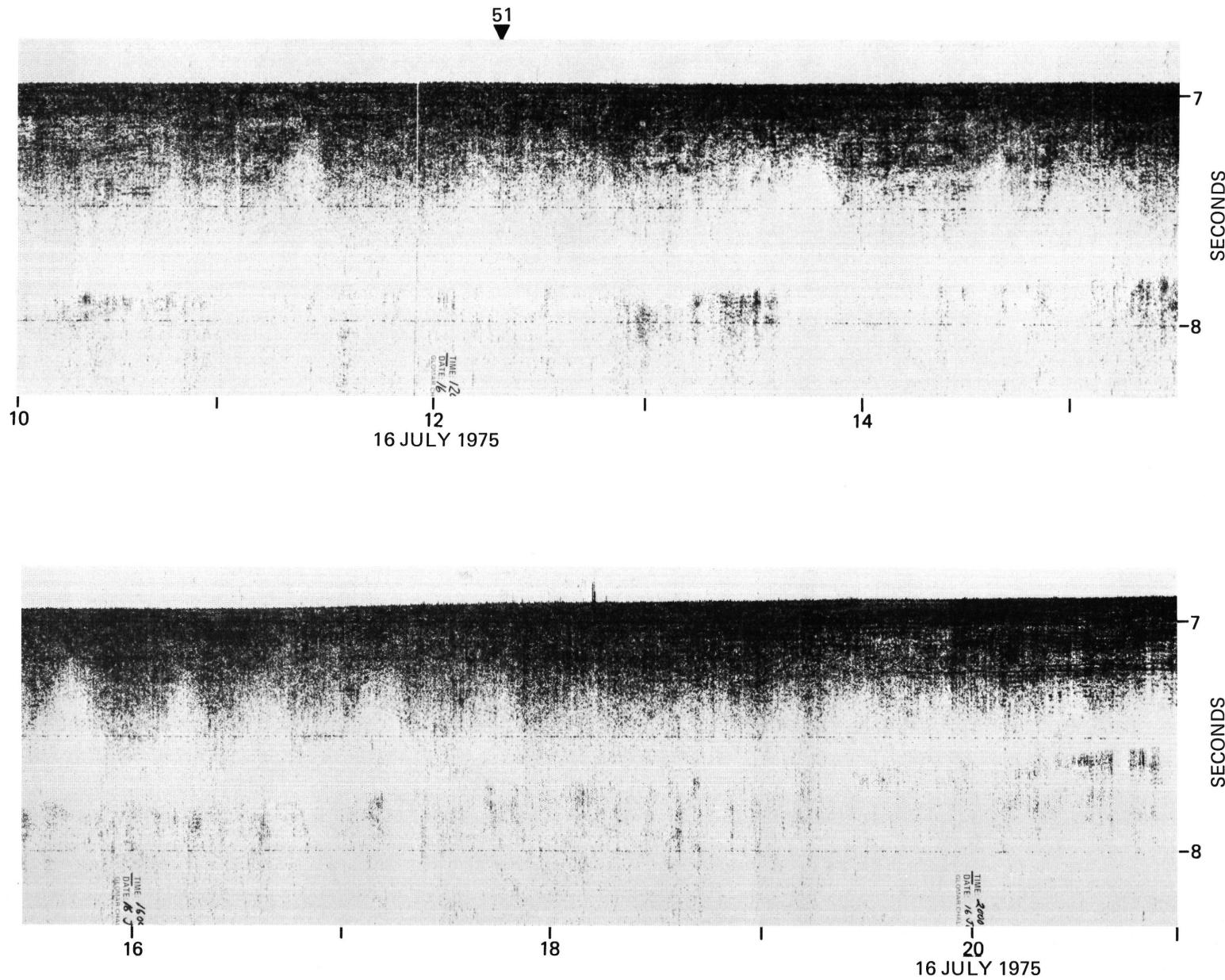


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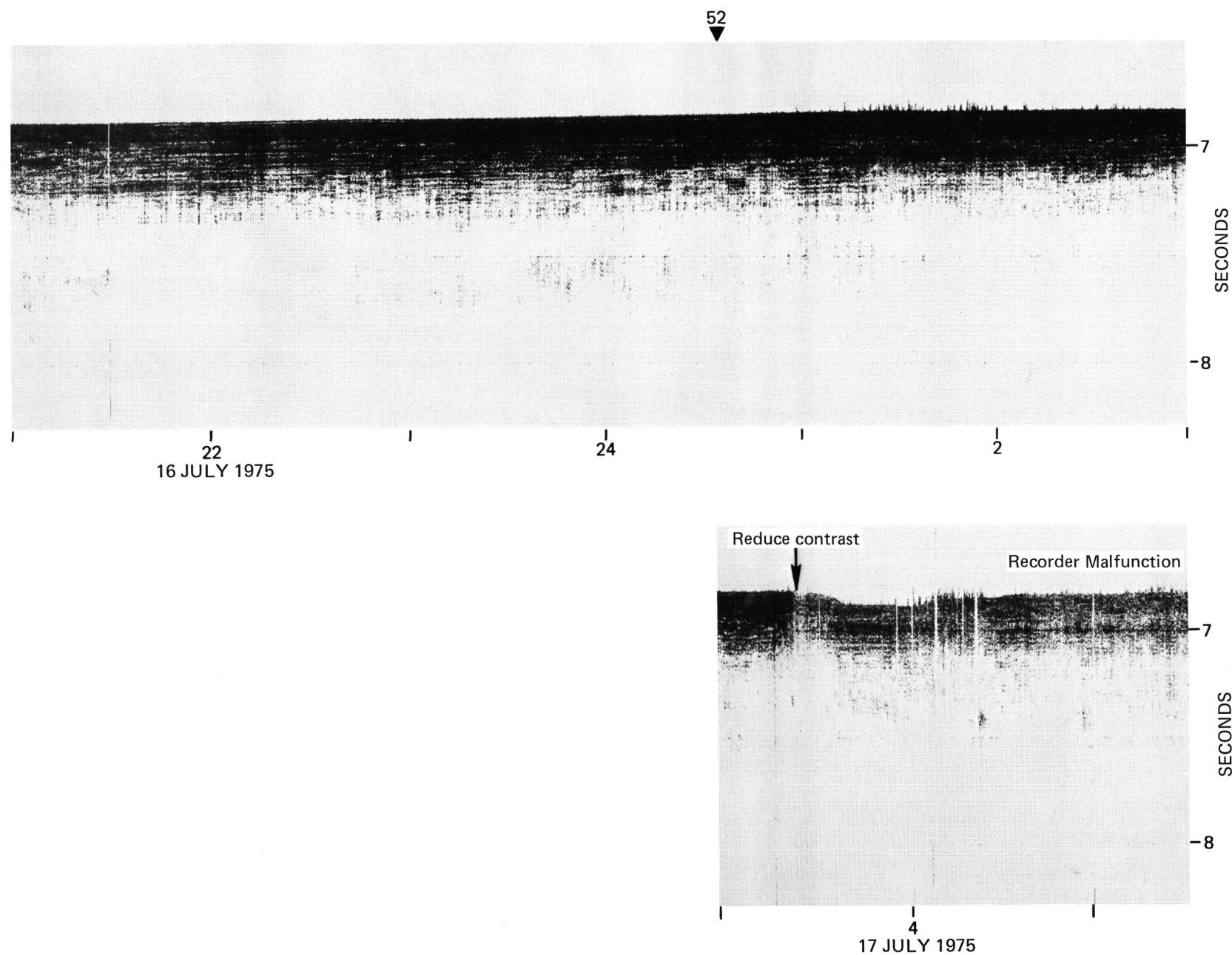


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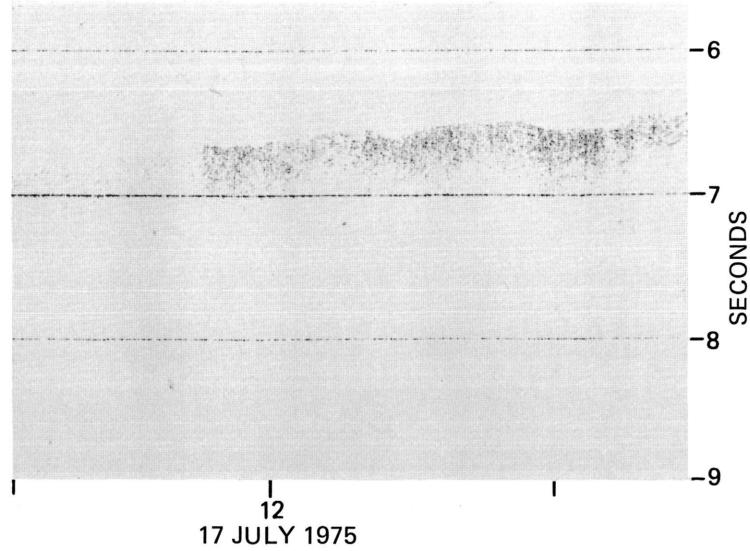
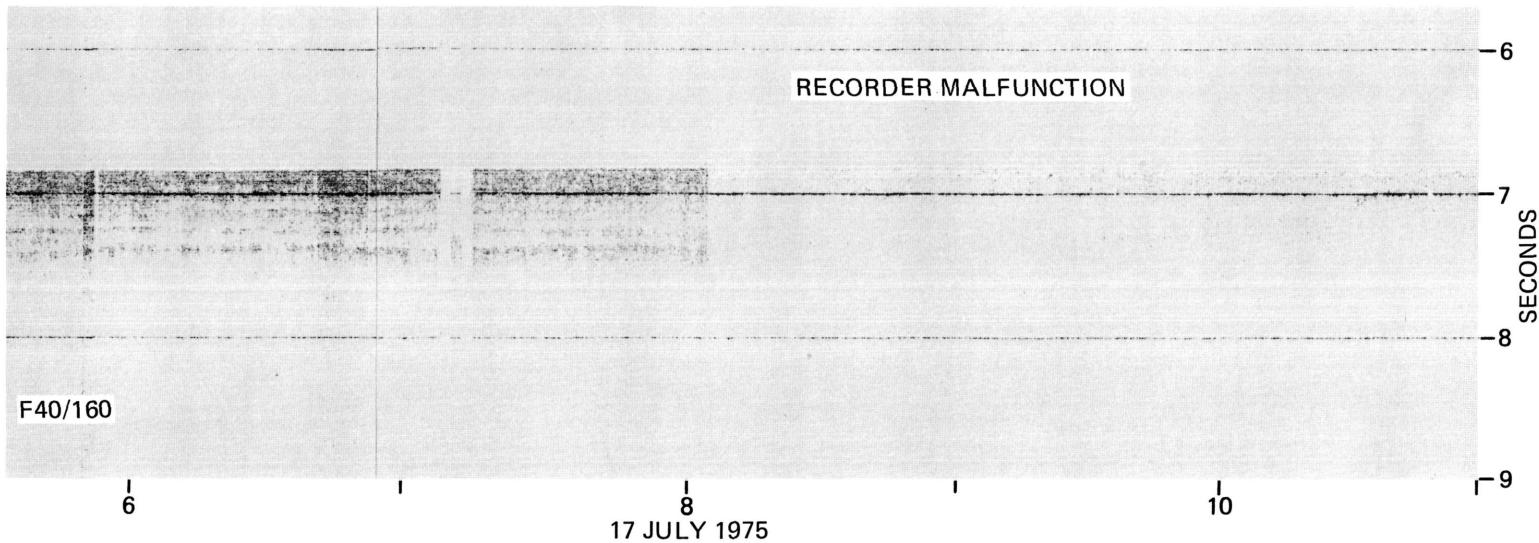


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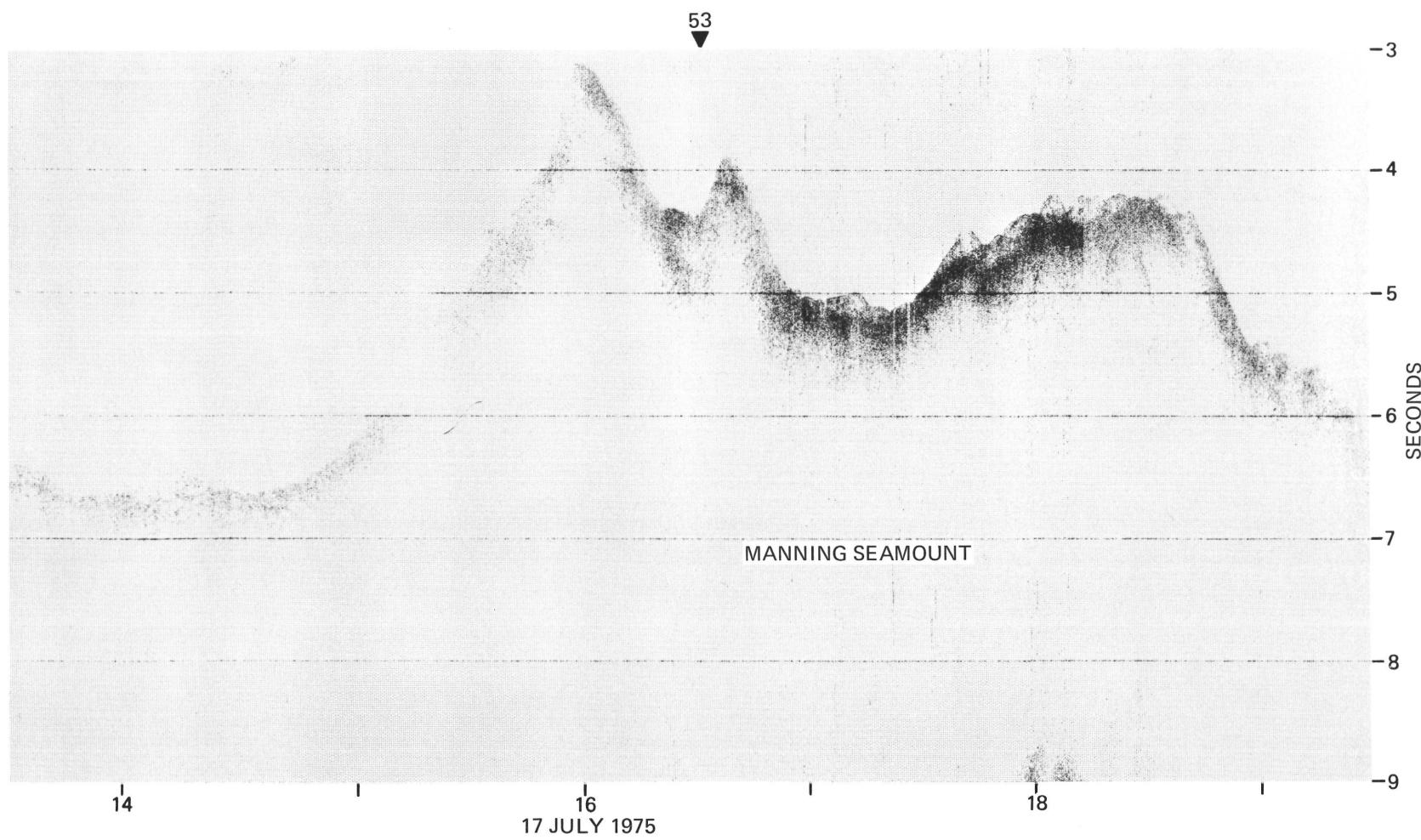


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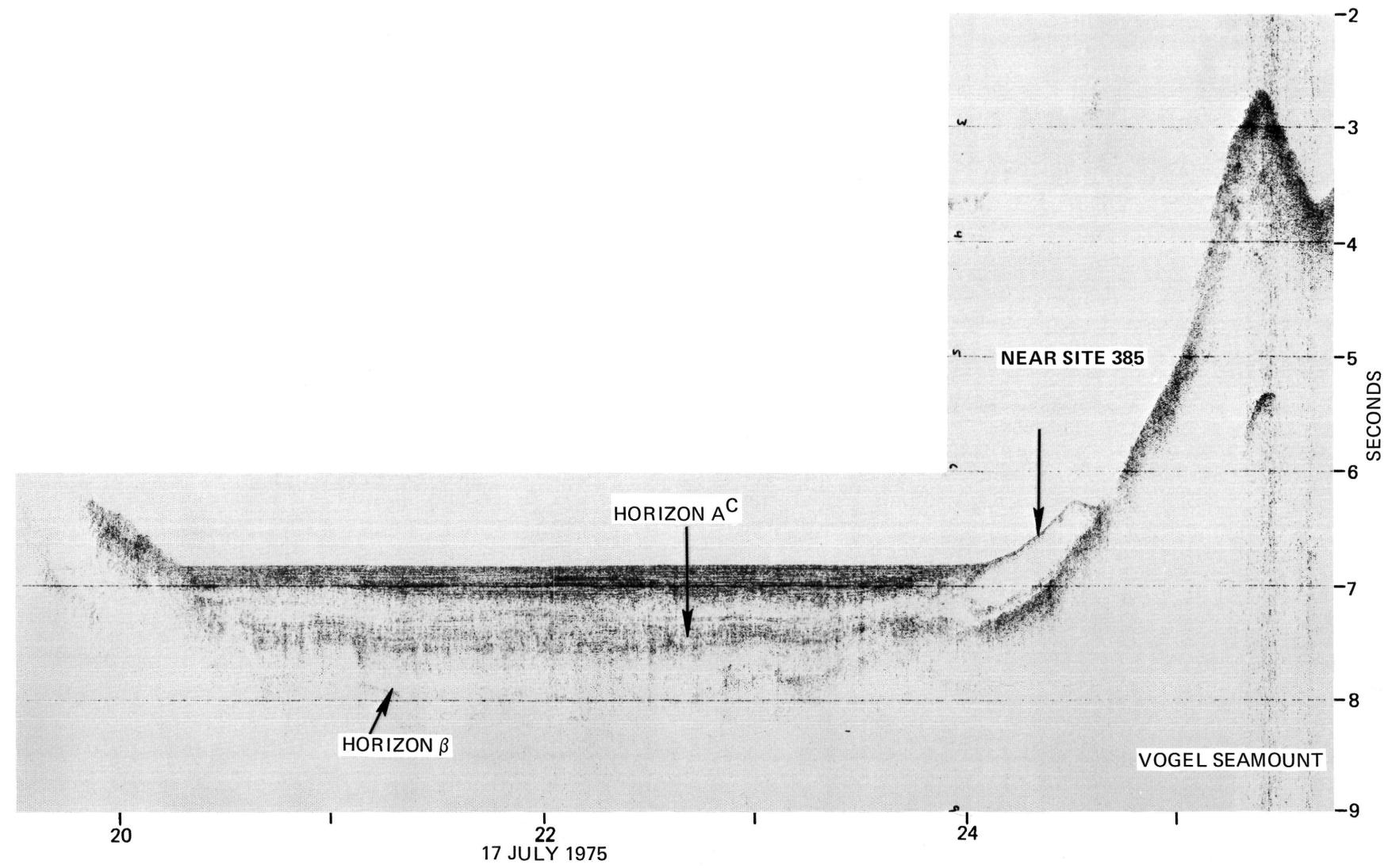


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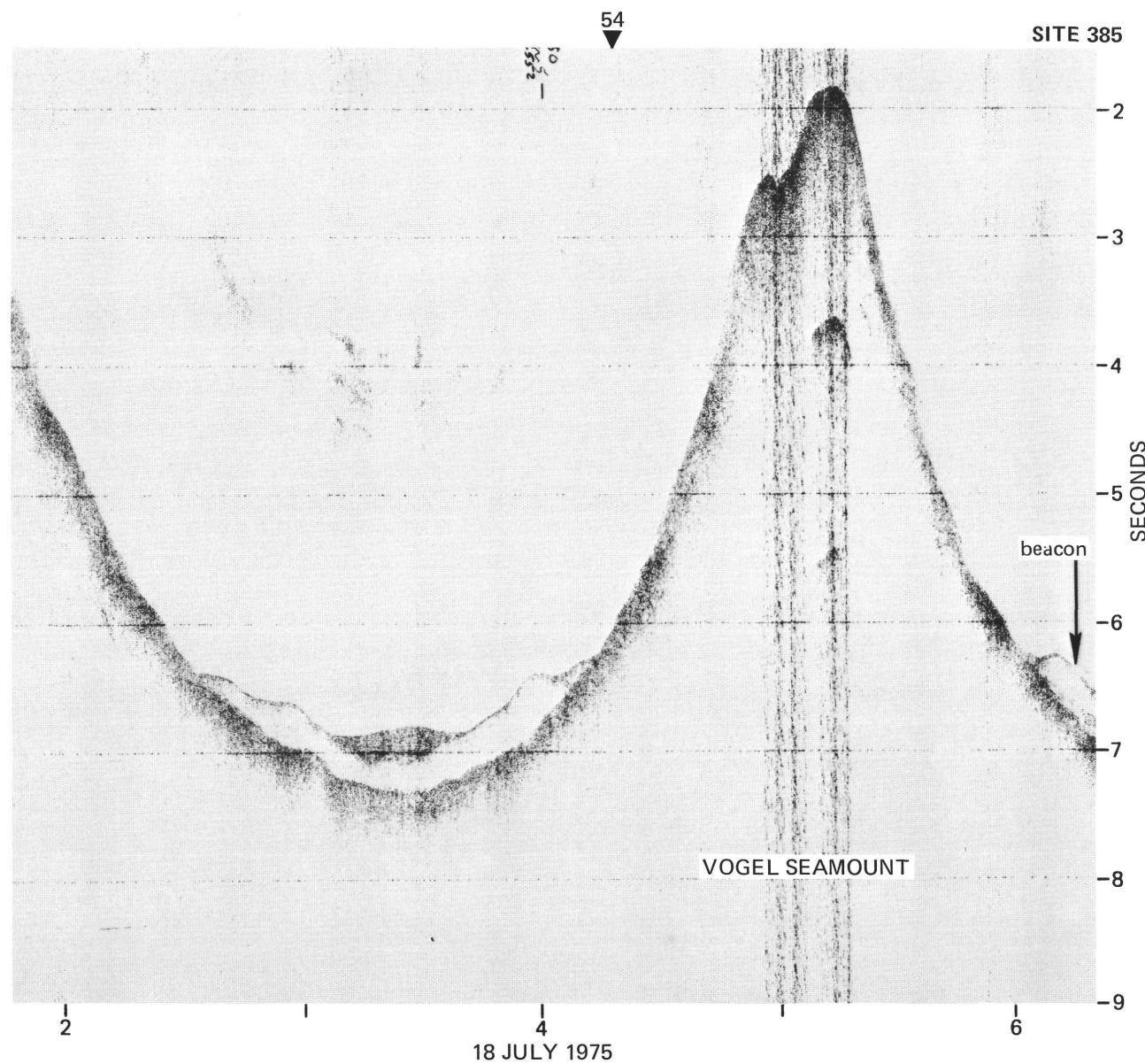


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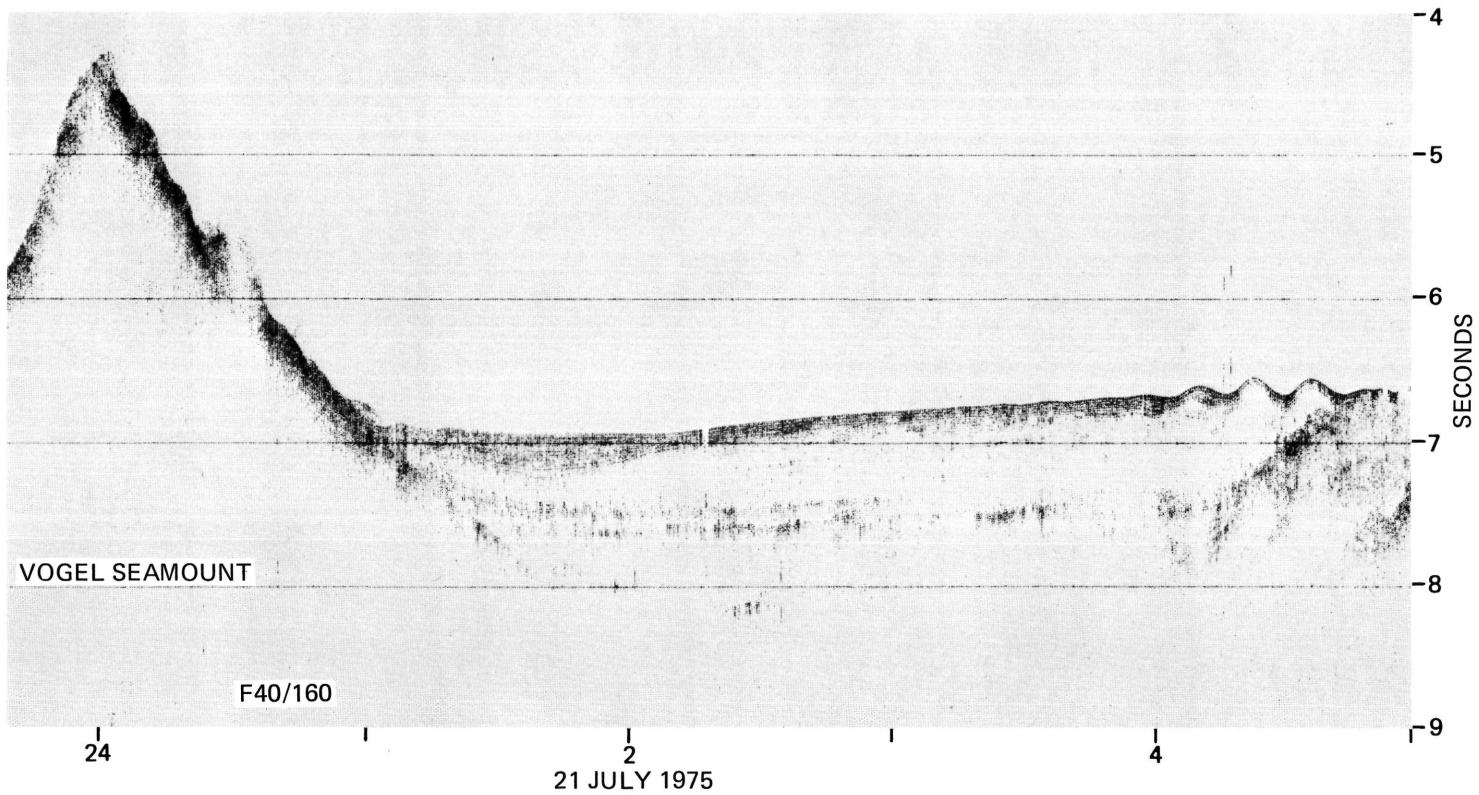


Figure 2. (*Continued*).

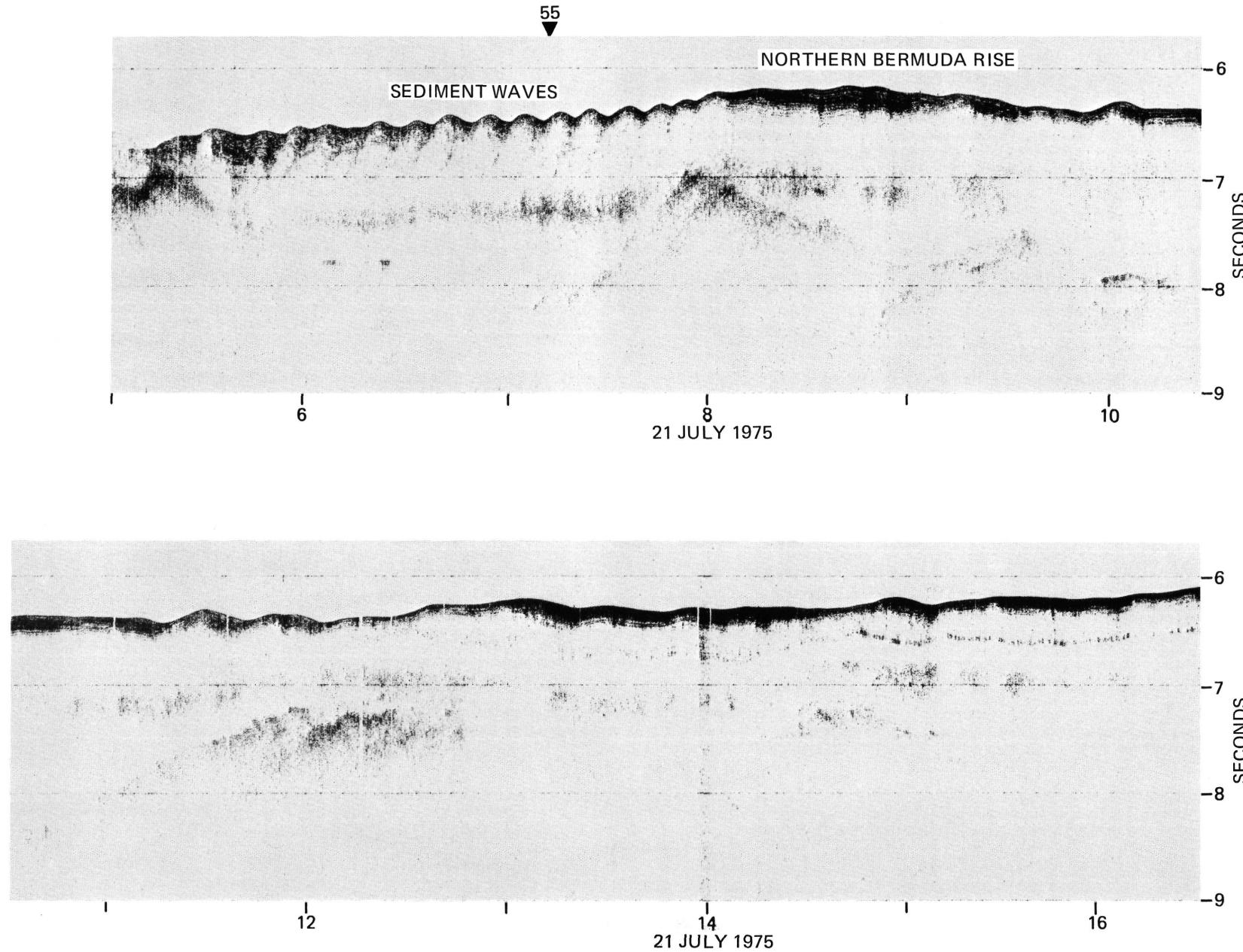


Figure 2. (Continued).

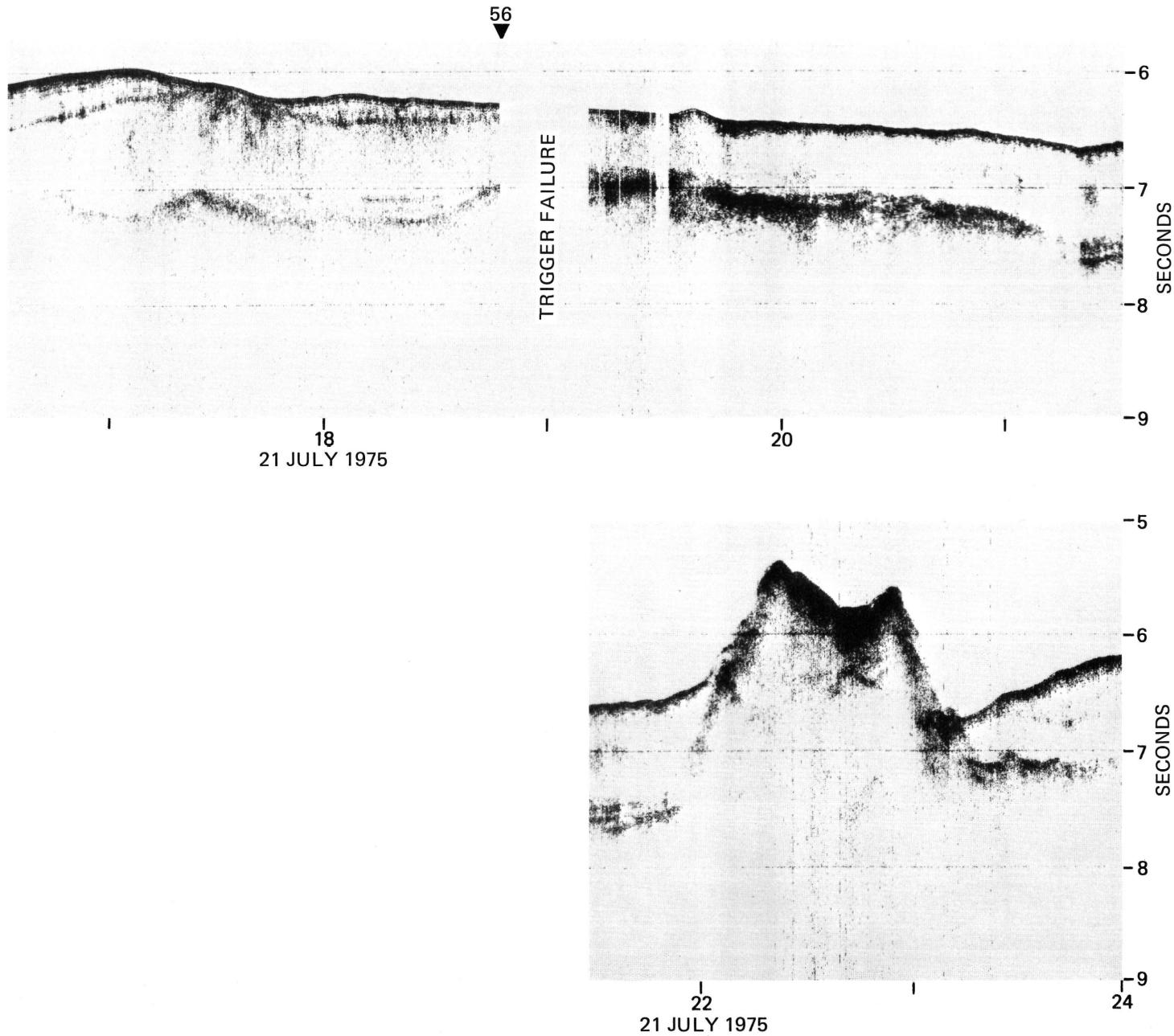


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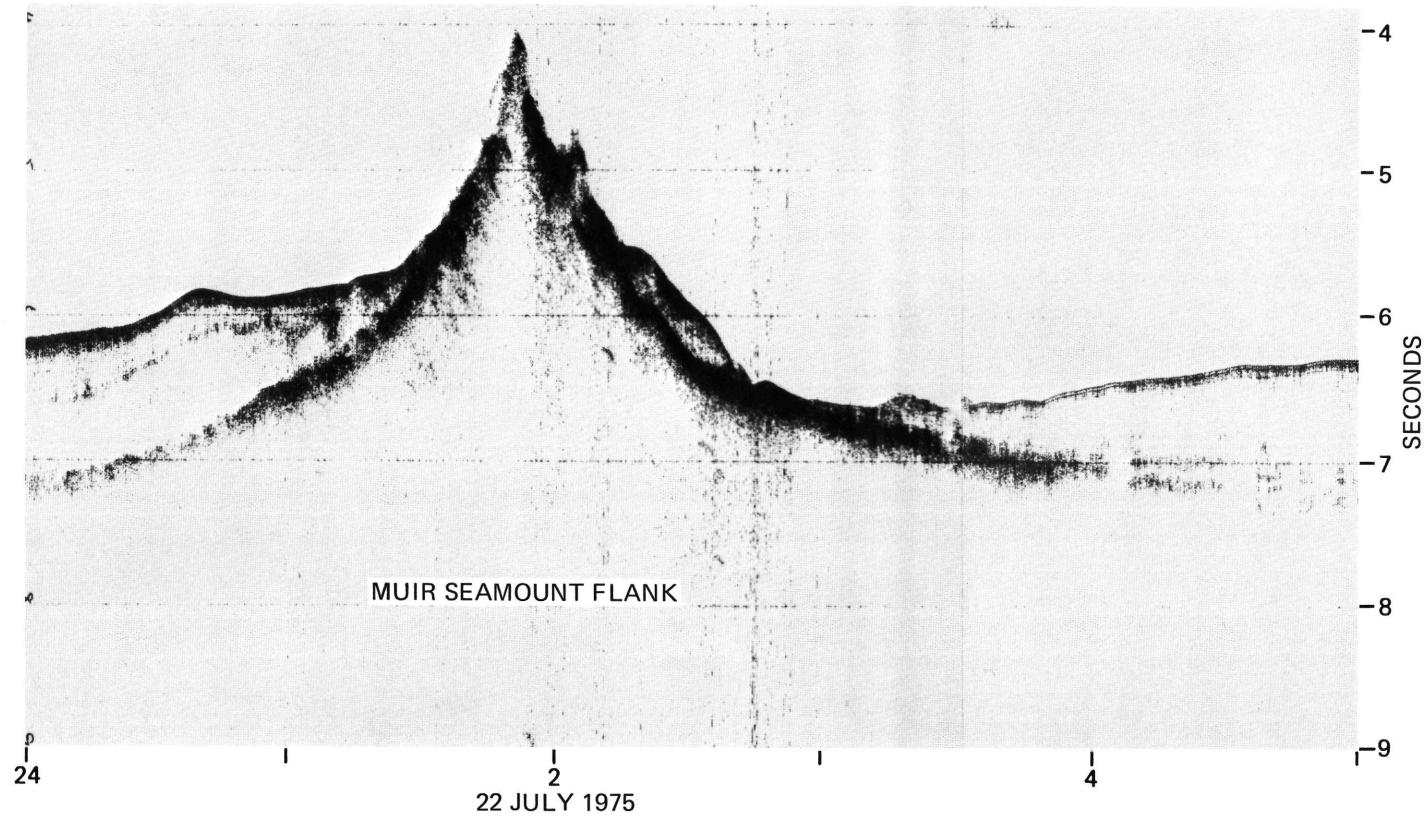


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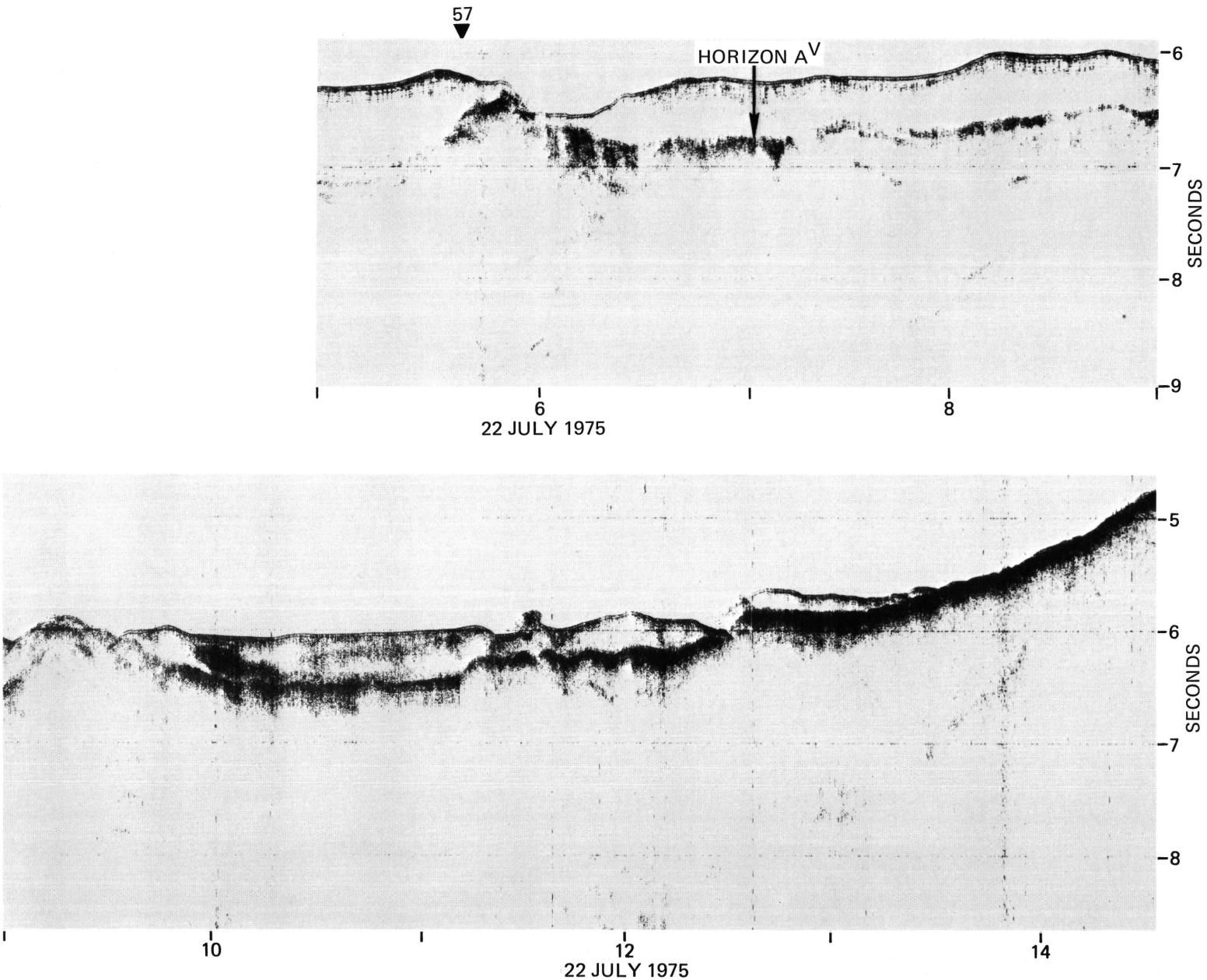


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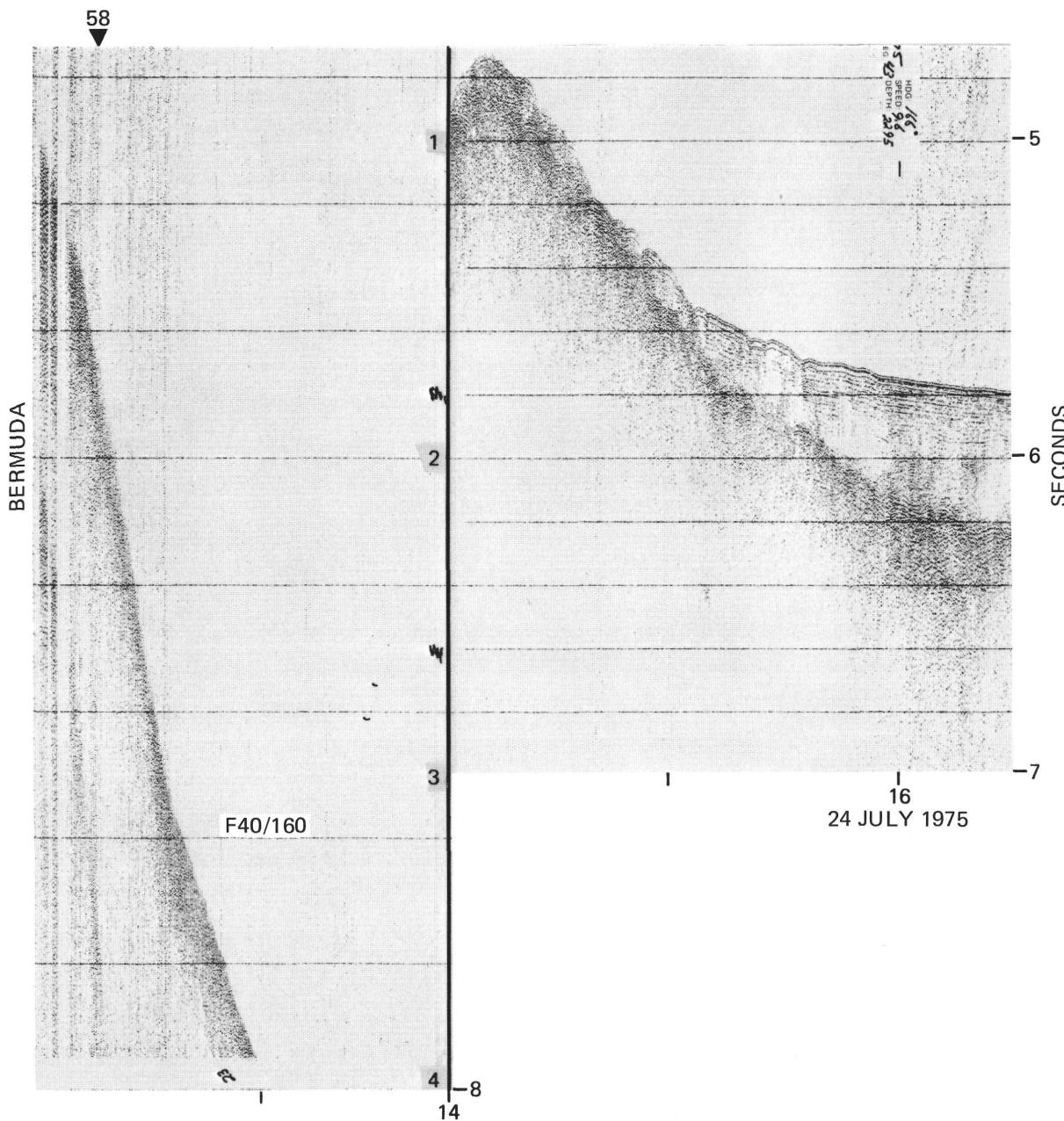


Figure 2. (Continued).

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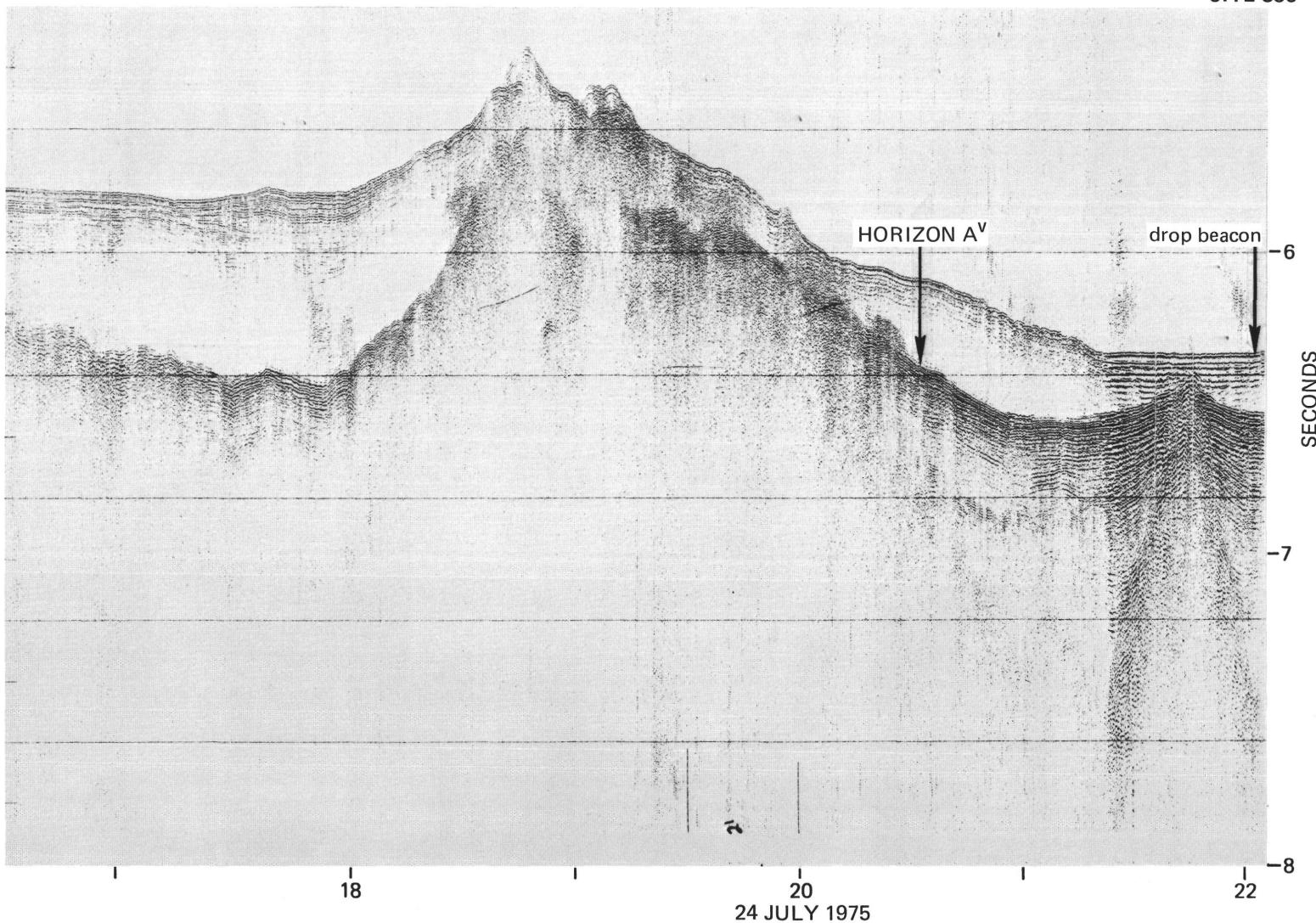


Figure 2. (Continued).

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B. TUCHOLKE

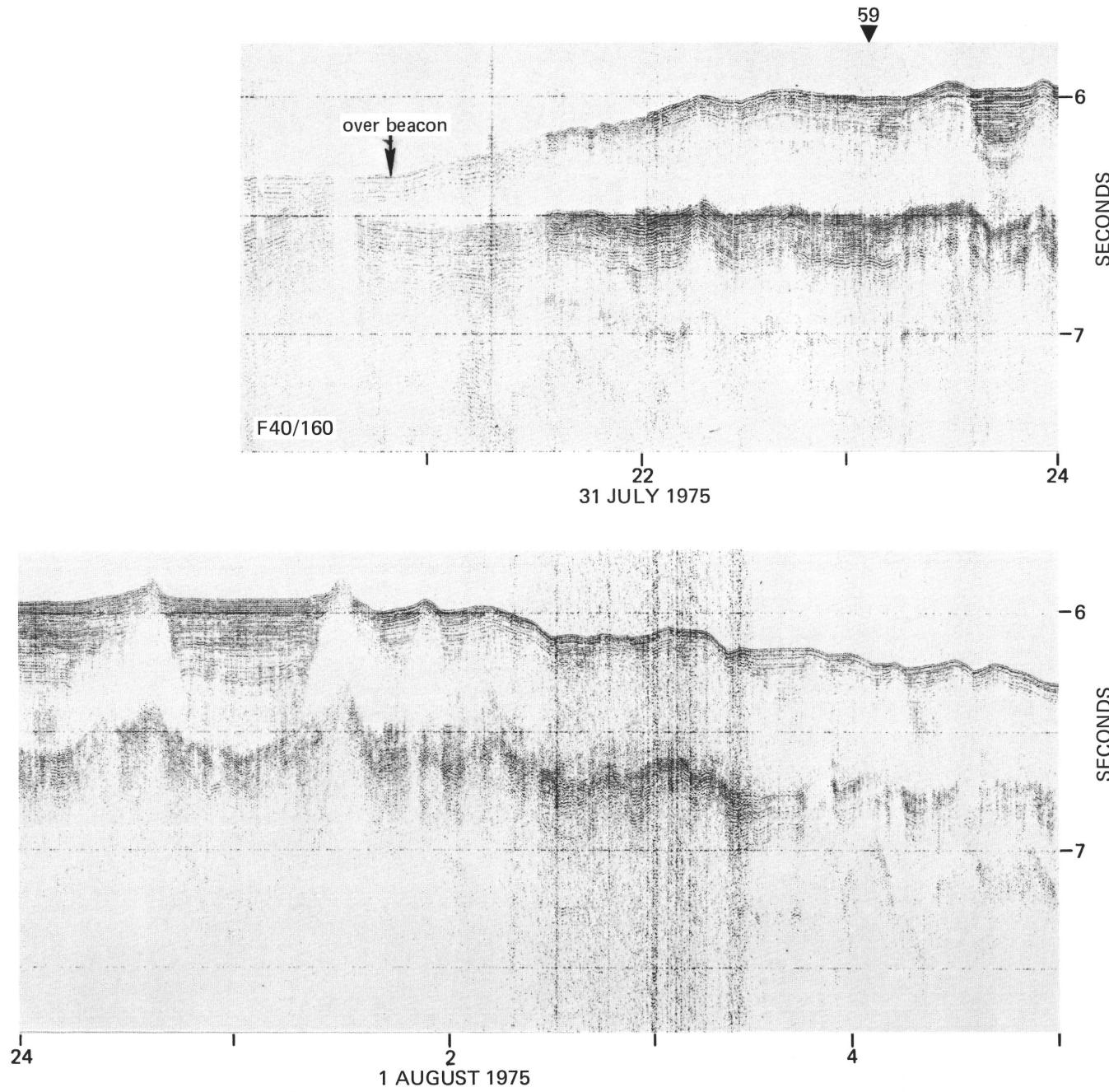


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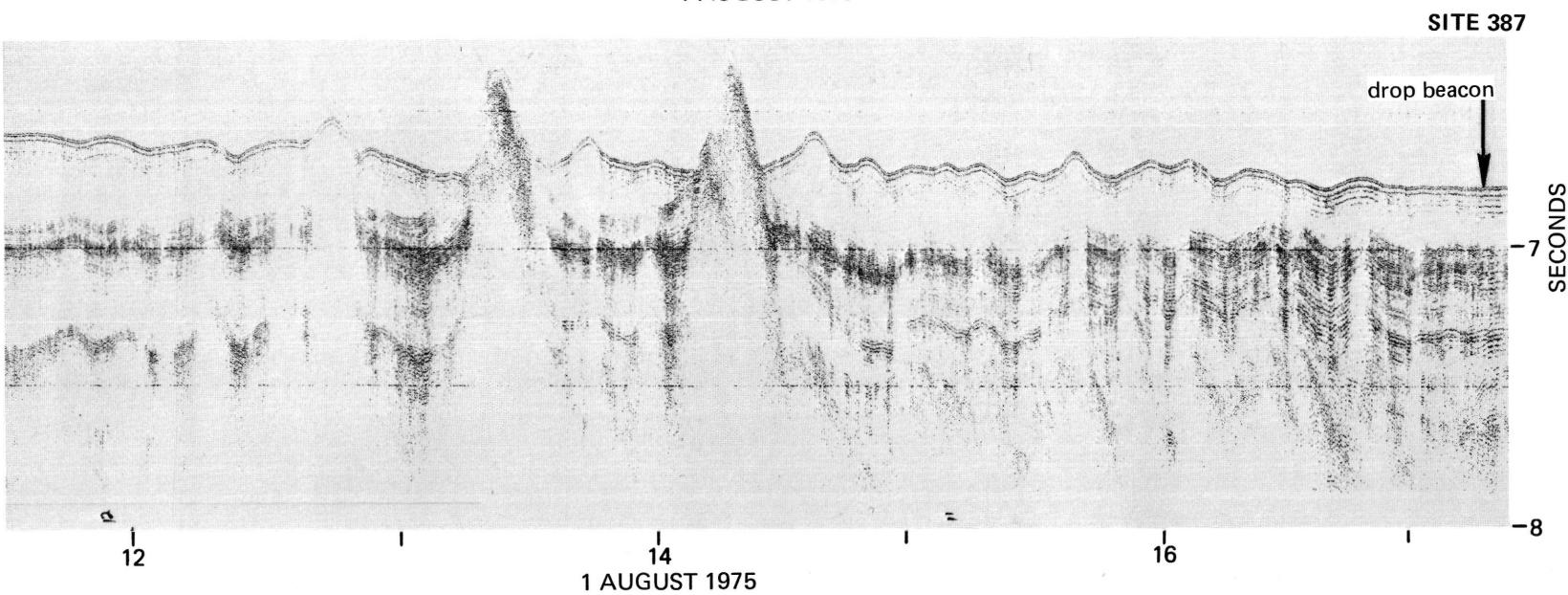
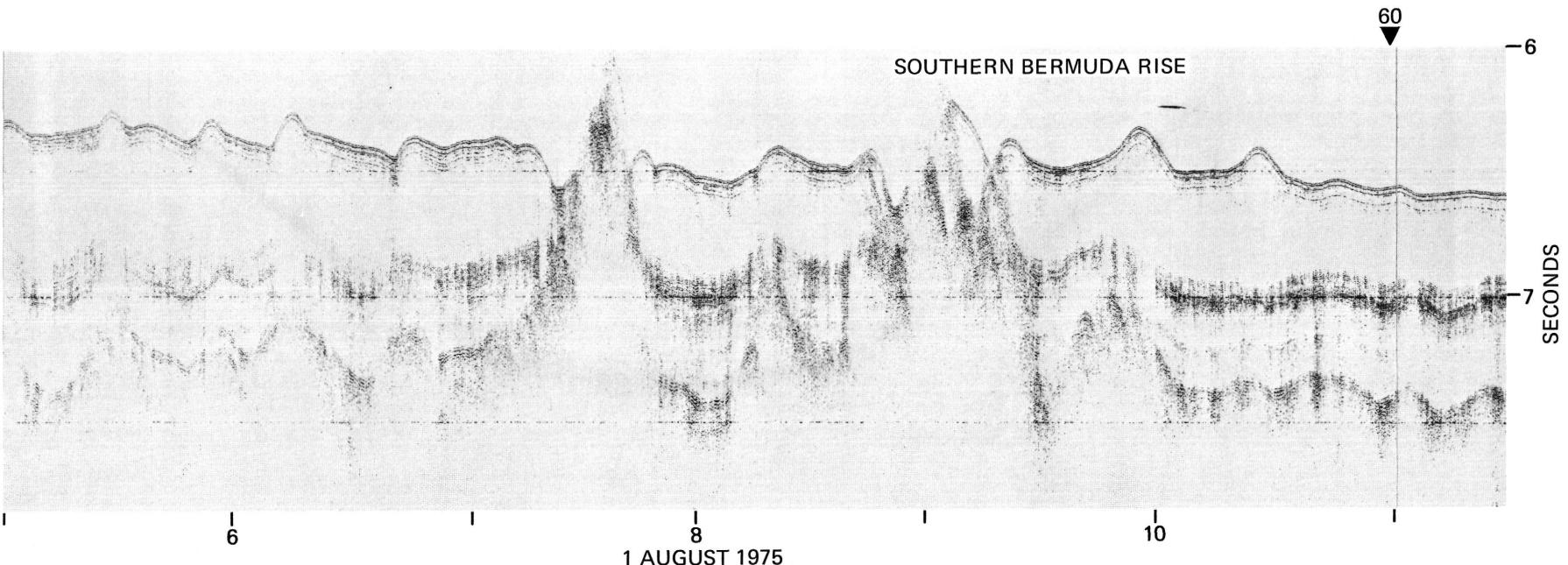


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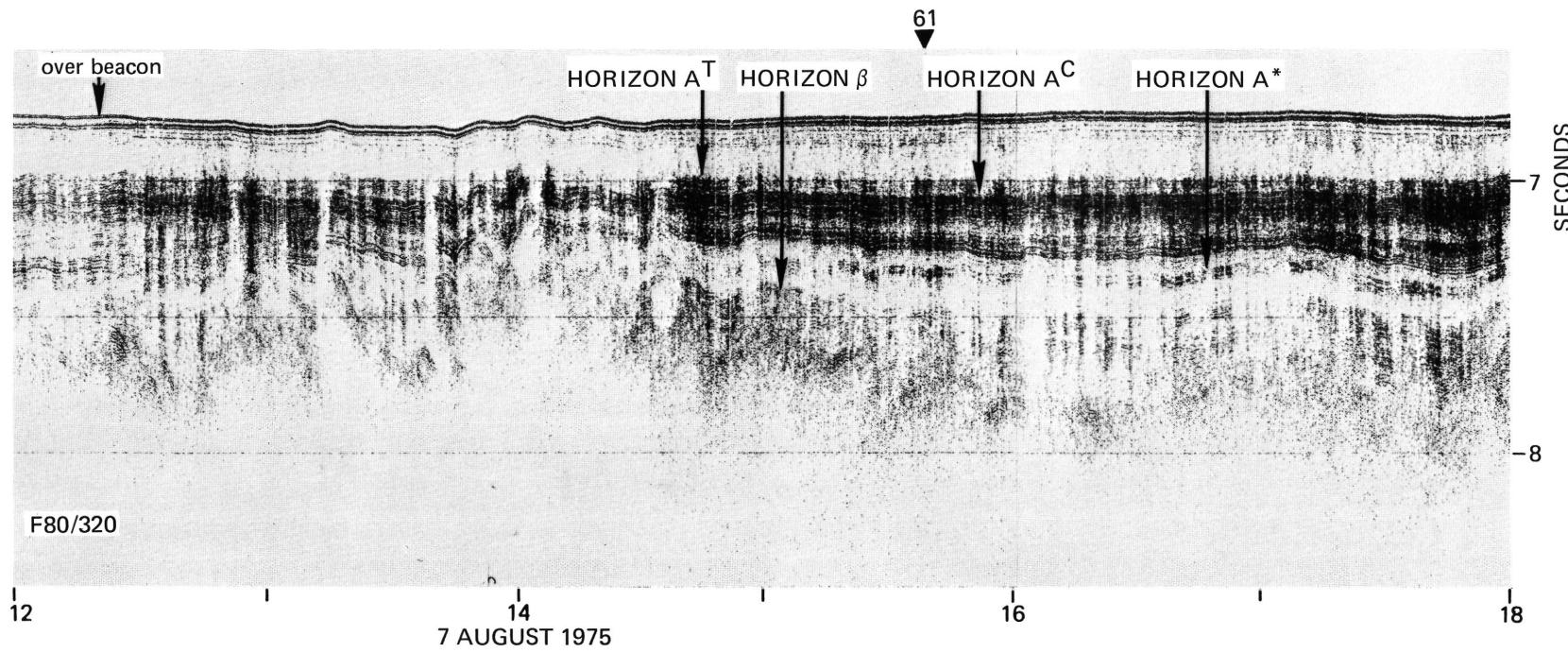


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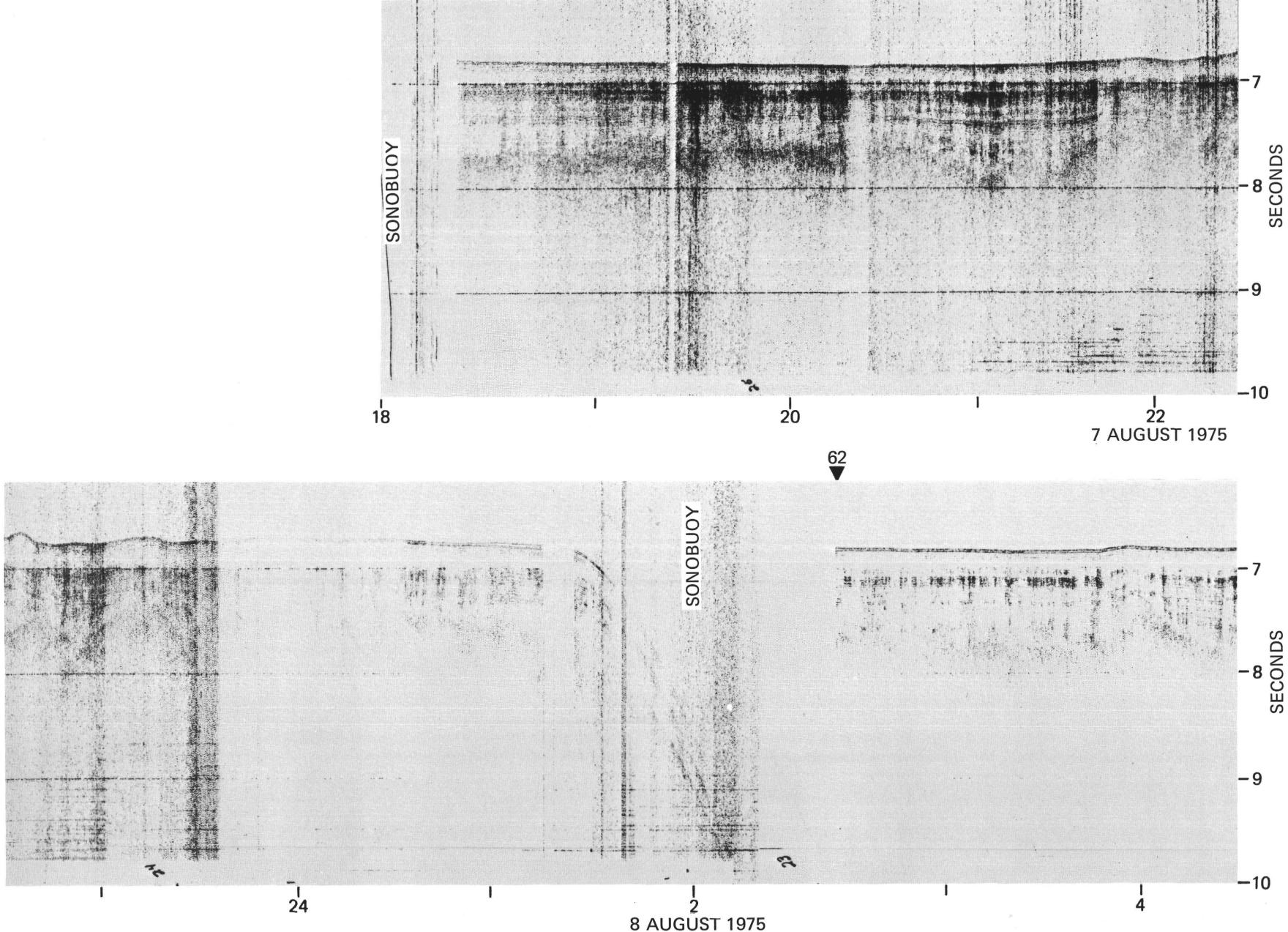


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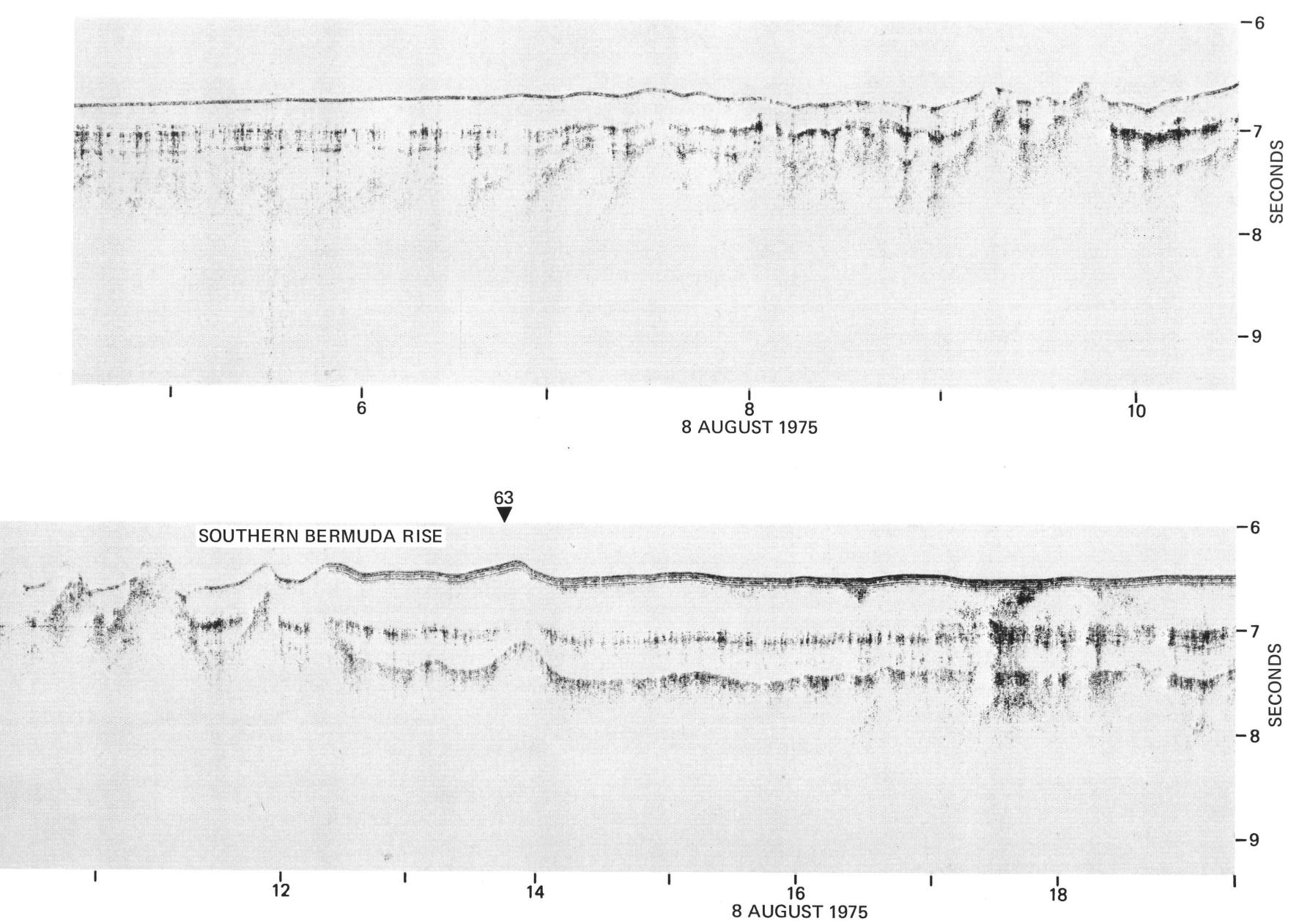


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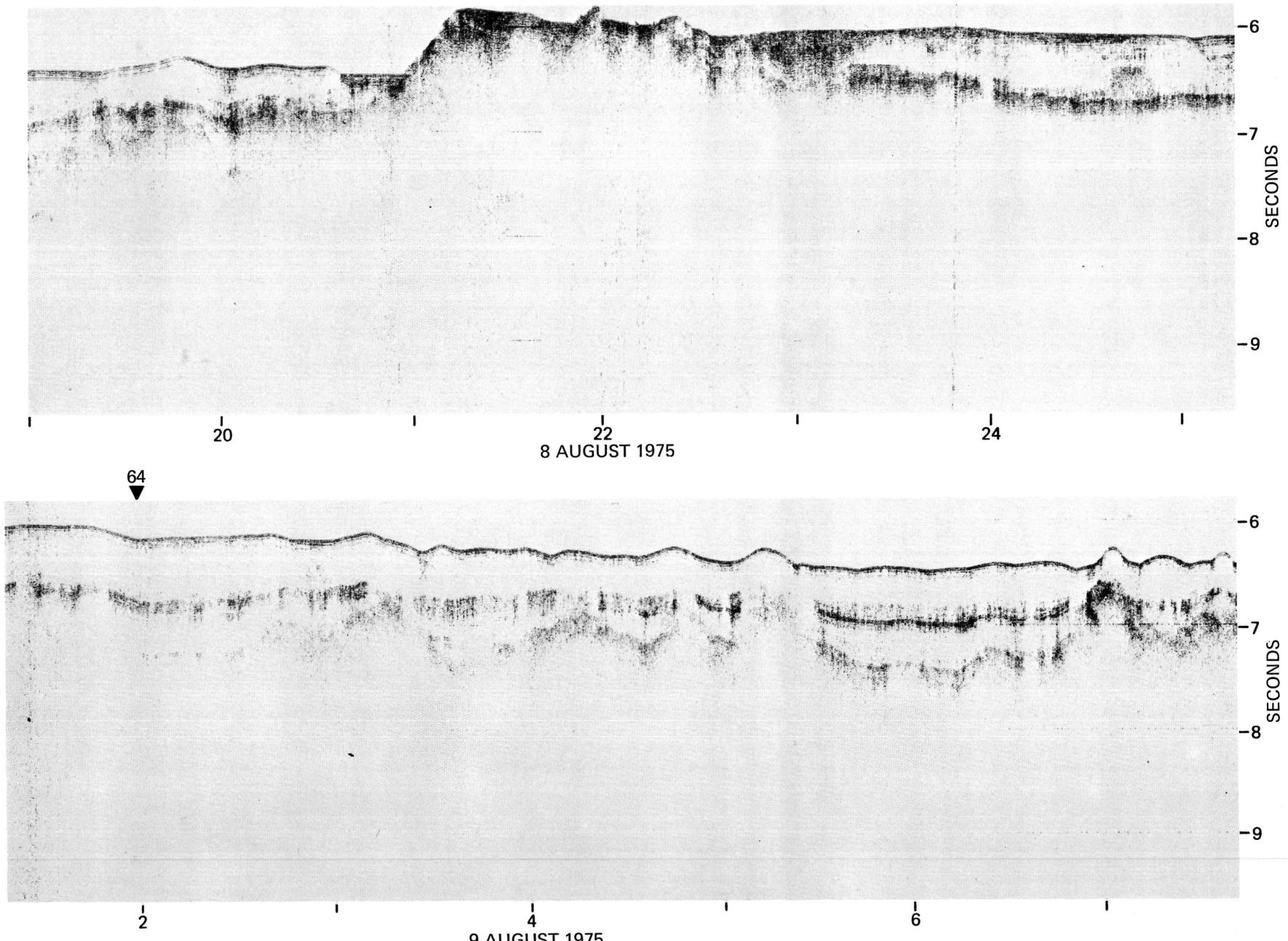


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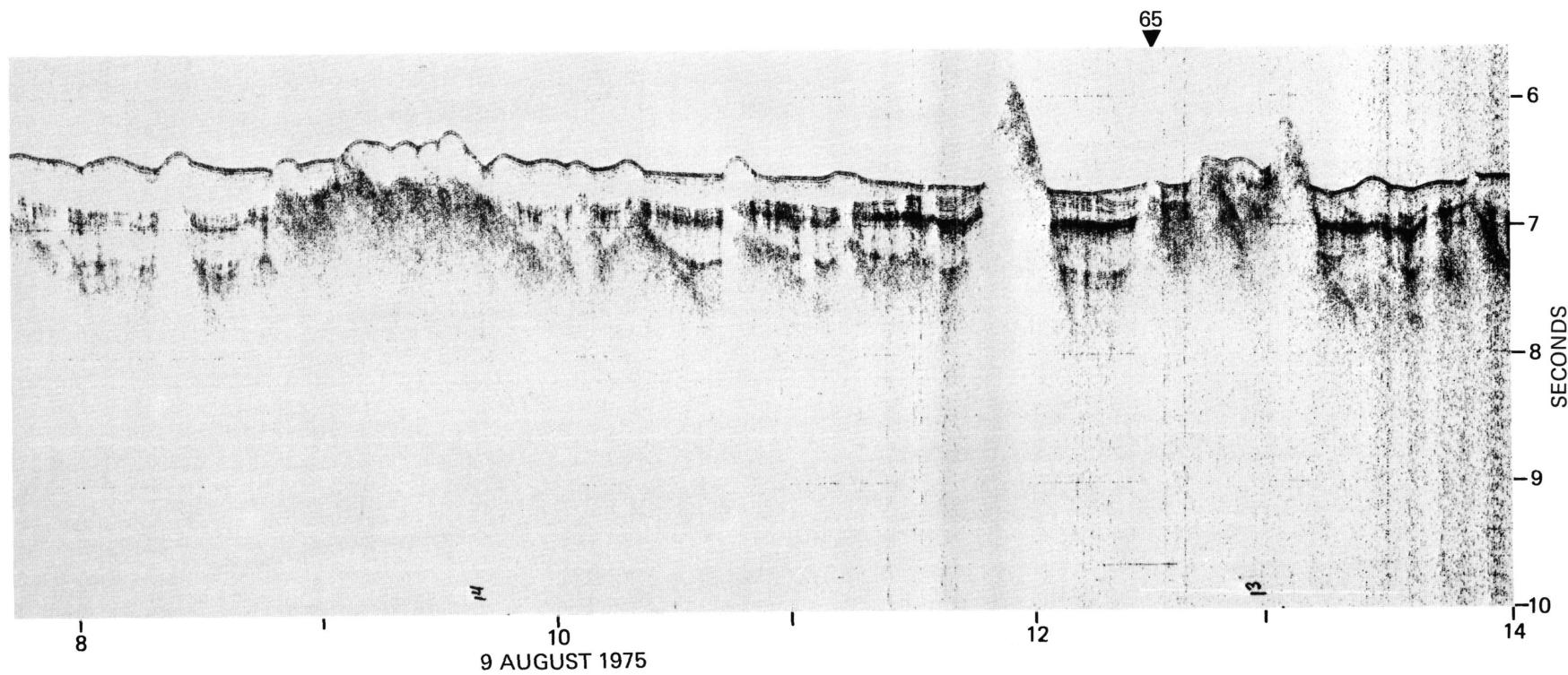


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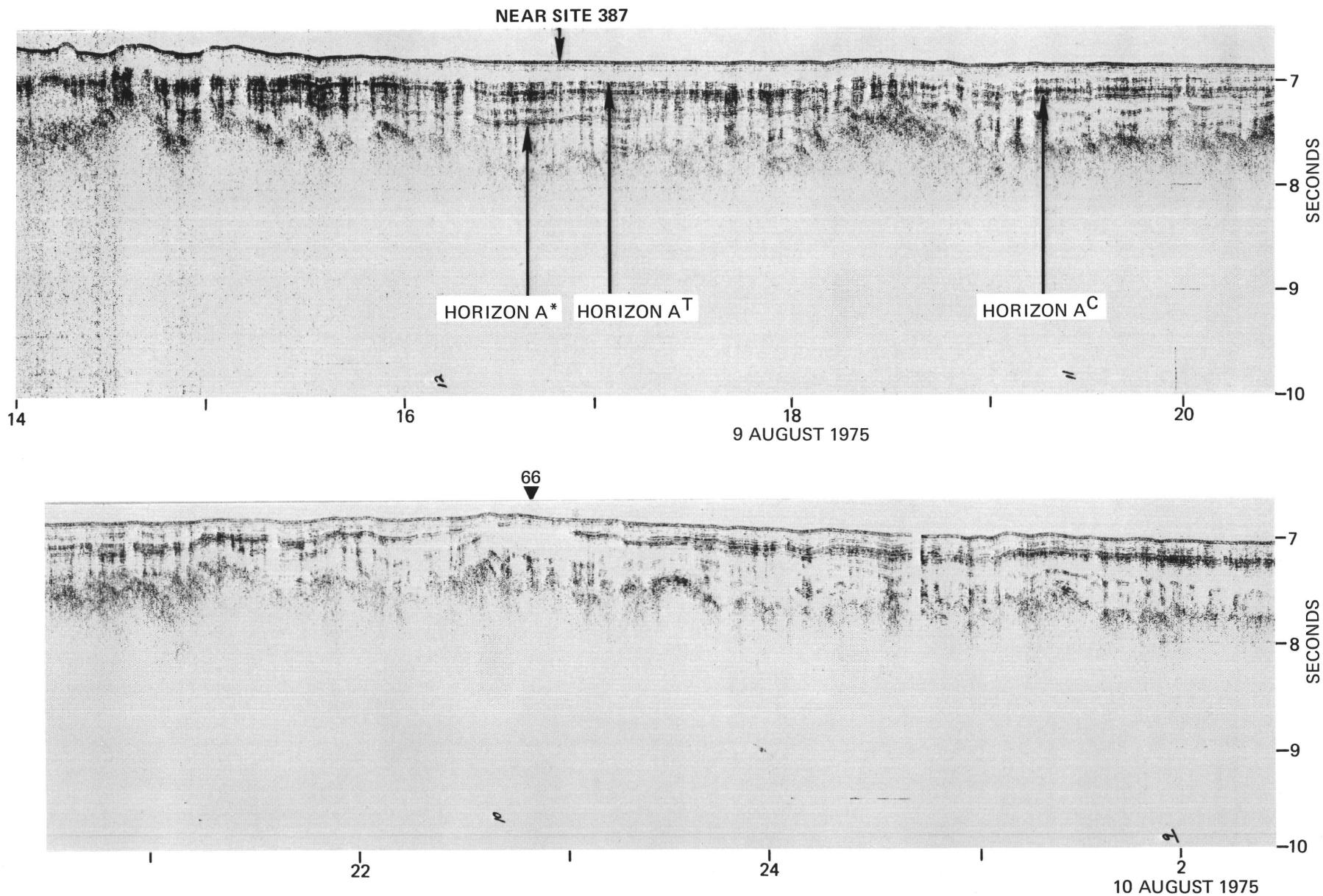


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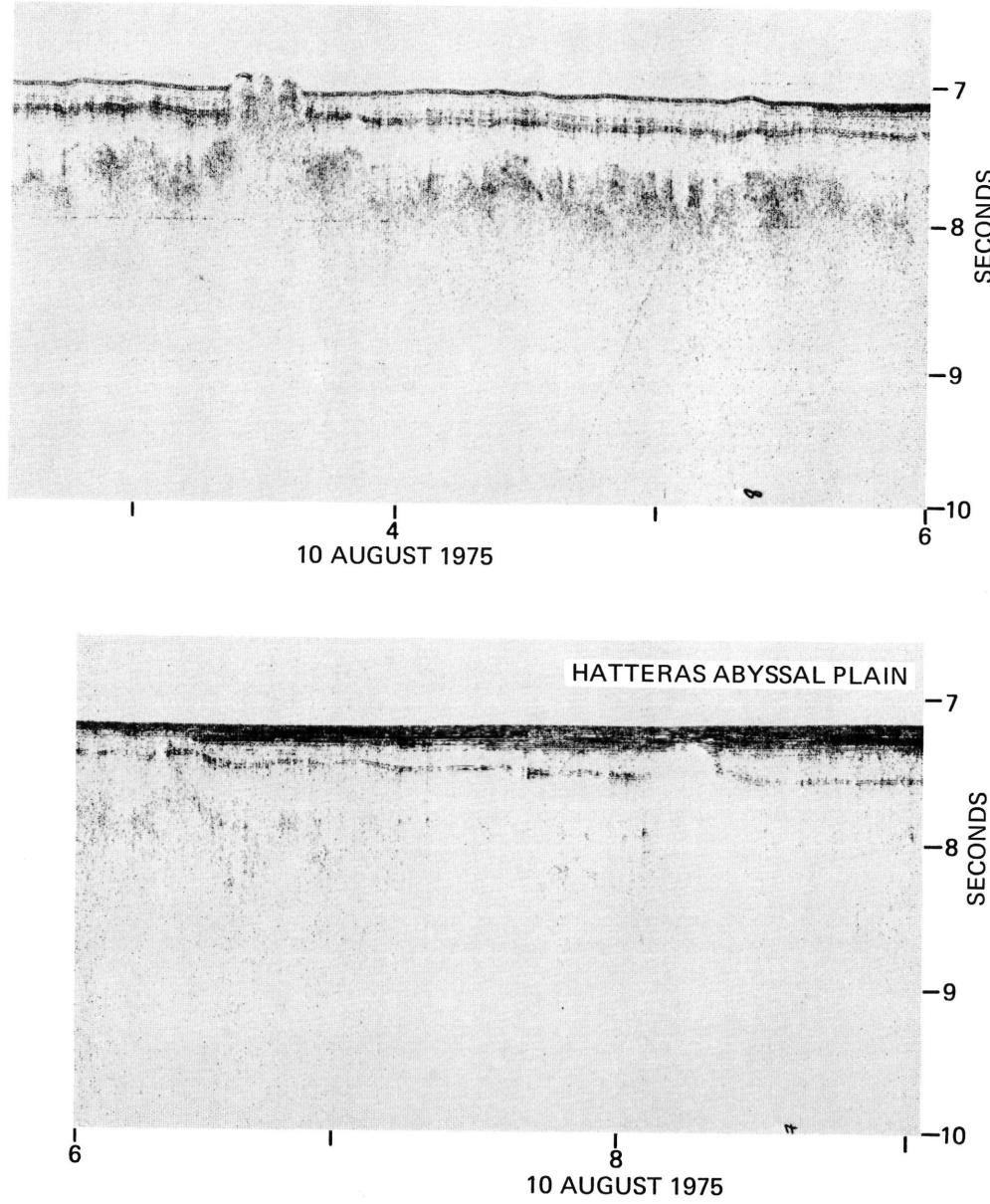


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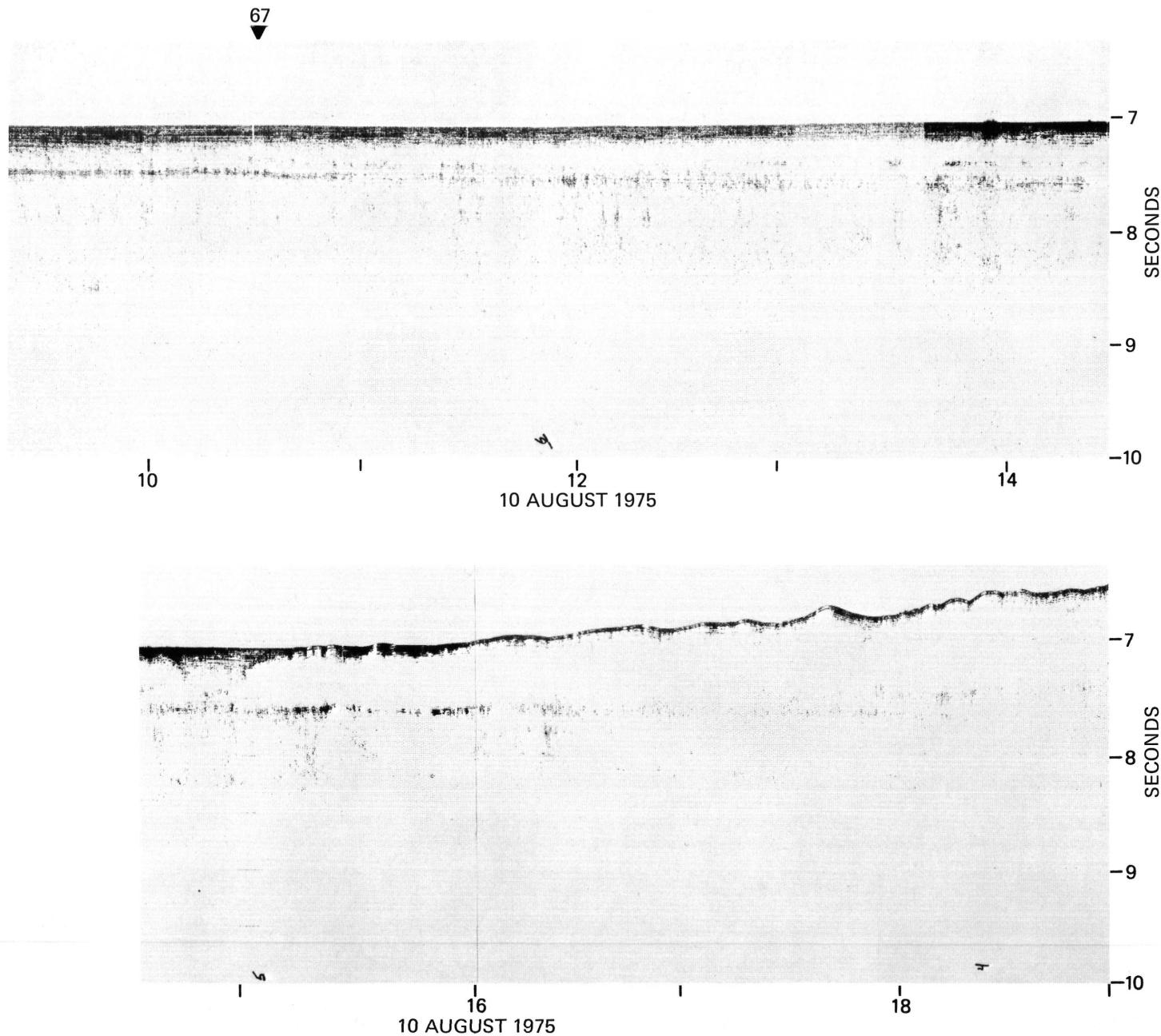


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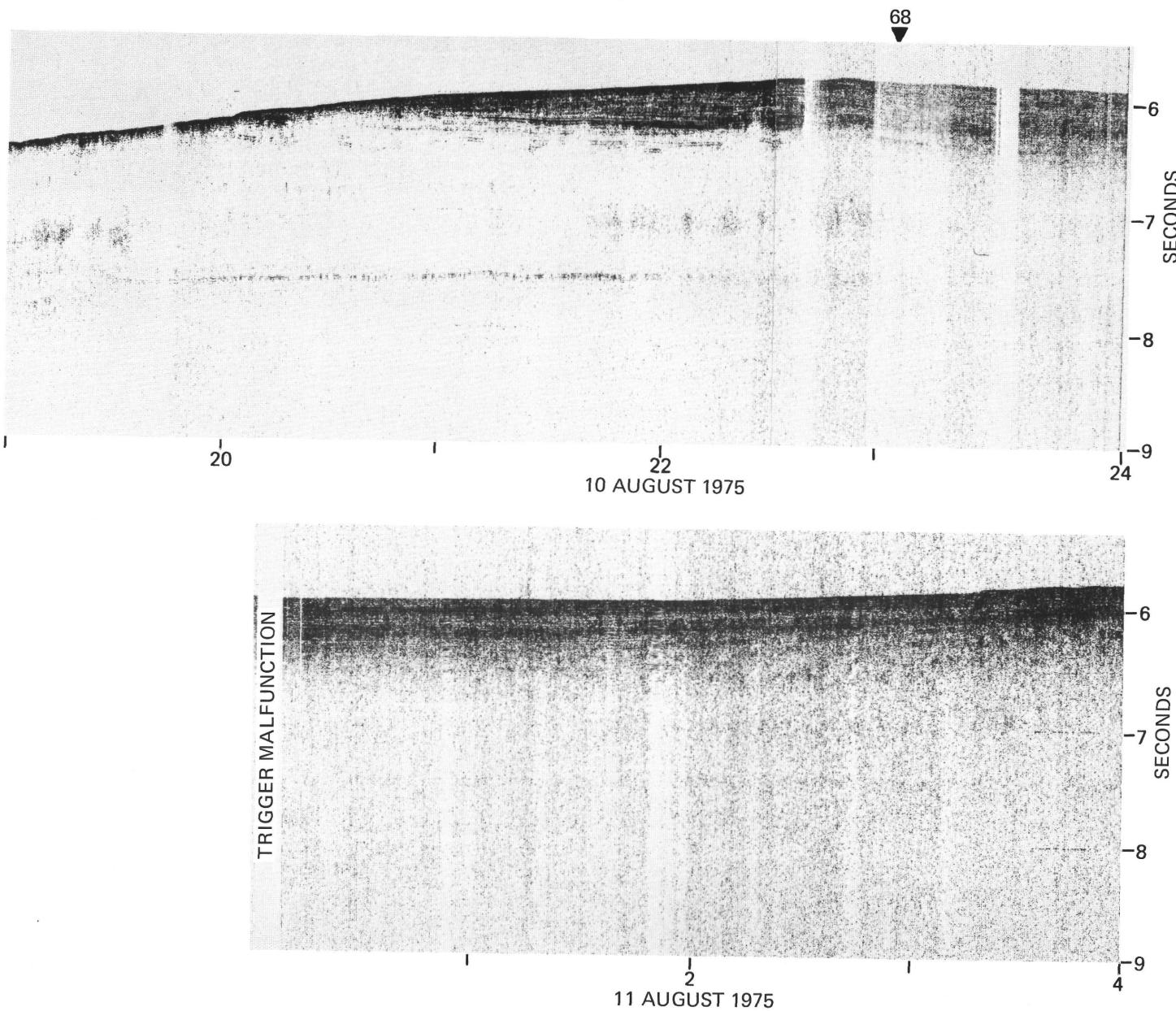


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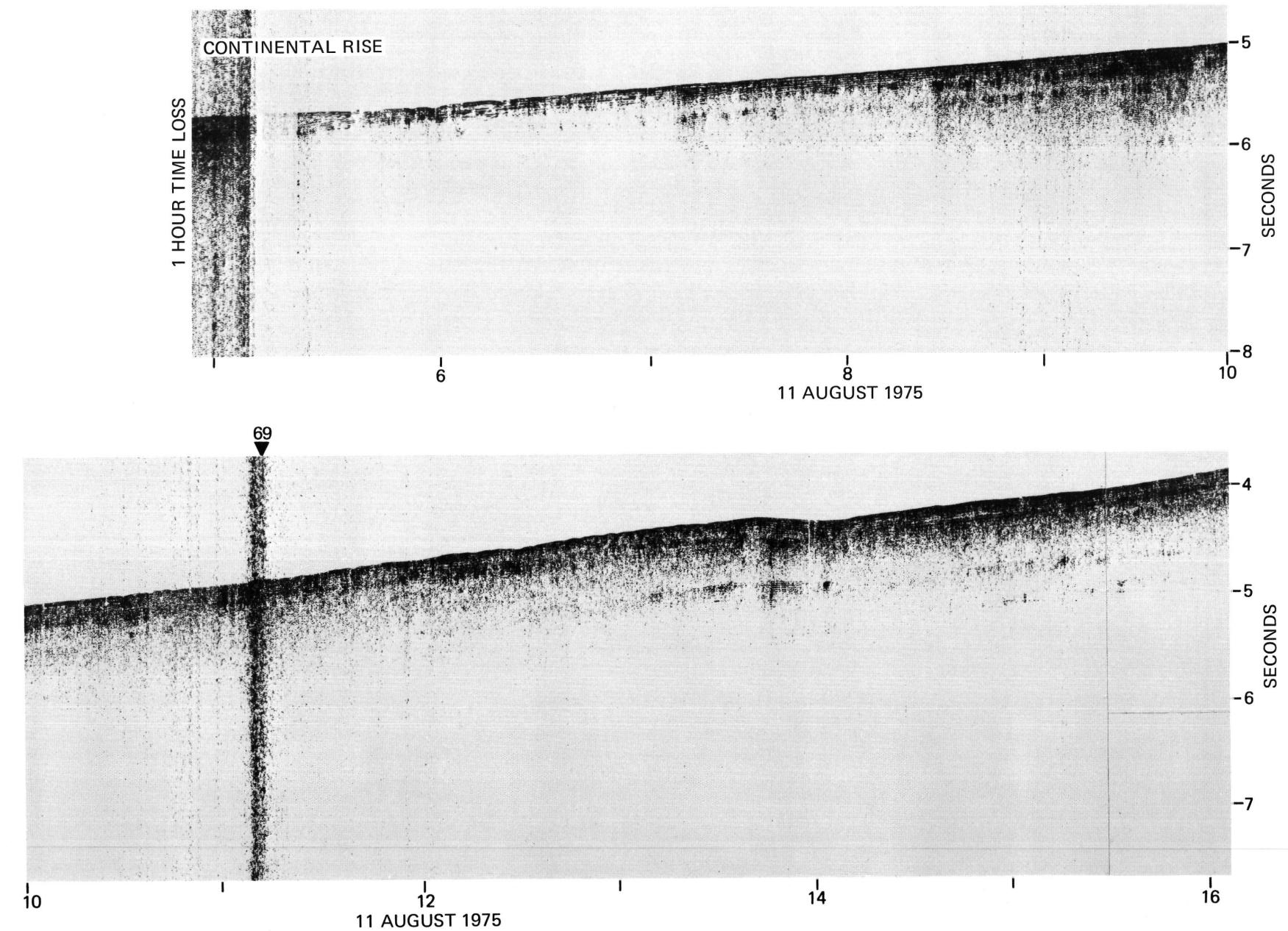


Figure 2. (Continued).

PROCEEDING TO NORFOLK, VIRGINIA

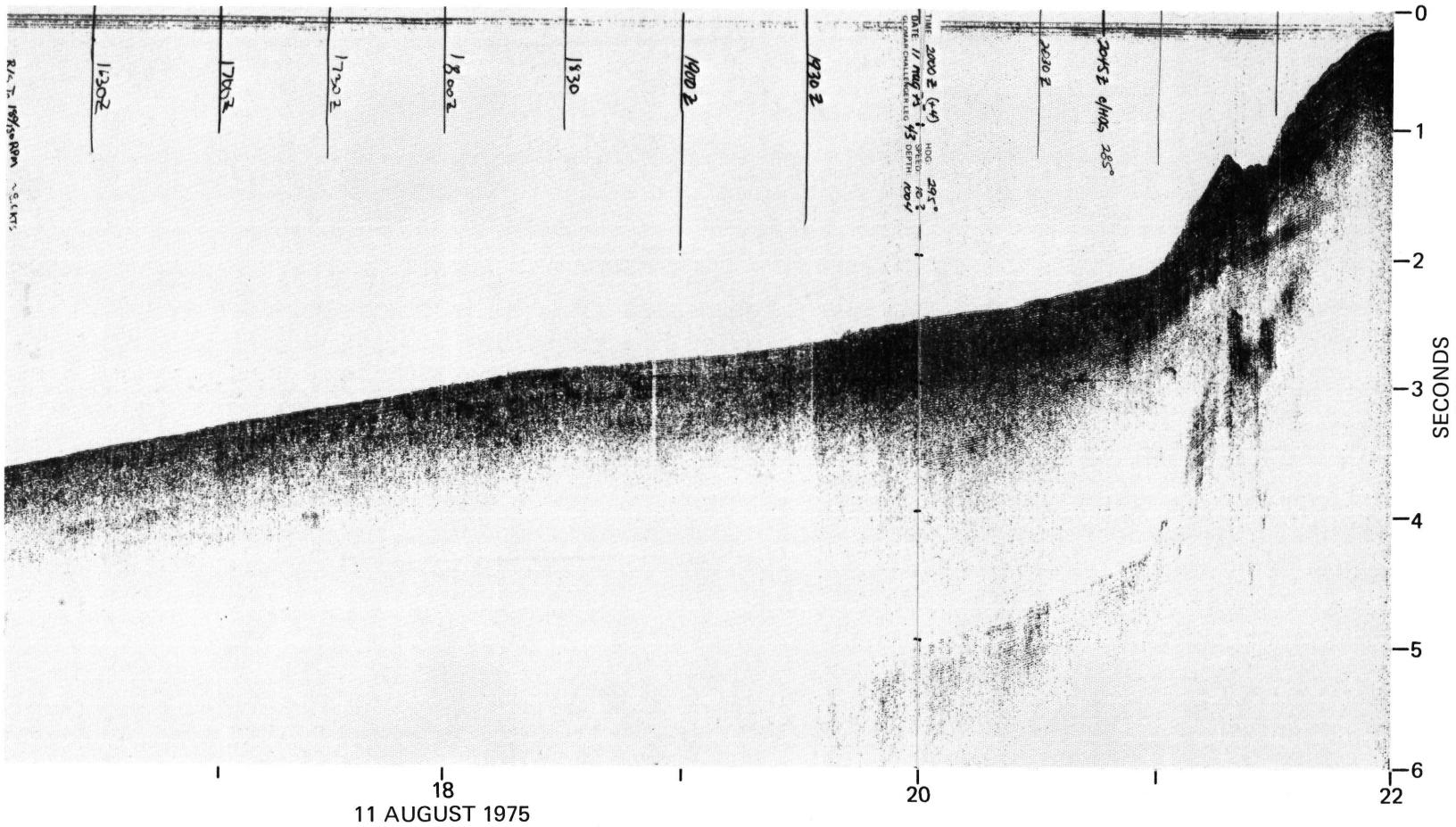


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