PRELIMINARY REPORT AND INDEX

OF

NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA

IGUANA EXPEDITION

R/V E. B. SCRIPPS

Leg 1	San Diego - Acapulco	(1 April 1972 to 7 April 1972)
Leg 2	Acapulco - Guayaquil	(9 April 1972 to 17 April 1972)
Leg 3	Guayaquil - Punta Arenas	(21 April 1972 to 30 April 1972)
Leg 4	Punta Arenas - Acapulco	(2 May 1972 to 11 May 1972)
Leg 5	Acapulco - San Diego	(15 May 1972 to 22 May 1972)

Chief Scientist - G. G. Shor

Airgun Tech. - M. Barth

Resident Marine Tech. - W. E. Keith

Data Processed by - W. Keith, U. Albright, S. Smith, M. Henry

O. McConnell, I. Bustillos, J. Anfossi

Geological Data Center

T. E. Chase - Curator

S. M. Smith - Data Processing Coordinator

Scripps Institution of Oceanography

La Jolla, California

29 August 1972

Preliminary Report and Index of Navigation, Depth, Magnetic and Subbottom Profiler Data

Contents:

Index Chart - gives track of cruise leg and boundaries of depth compilation plots (see below).

Track Charts - annotated with dates (day/month) and hour ticks. The scale (.3"/deg. long) is the same as the index charts of previous SIO cruises published as Report IMR TR-25.

Profiles - Depth and magnetic anomaly vs. distance. Dates (day/month) and positions of major course changes (greater than 30 degrees) are annotated. Sections of track having subbottom profiler (airgun) records have a solid black line along the bottom of the profile.

For information on the availability and reproduction costs of data in the following forms, contact T.E. Chase, Curator, Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92037 (714-453-2000, ext. 1534):

1. Navigation listing of times and positions of course and speed changes, fixes and drift velocity.

2. Depth compilation plots - in fathoms (assumed sound velocity of 800 fm./sec.) at approximately 1 mile spacing, plotted at 4"/degree with standard U.S. Navy Oceanographic Office BC series boundaries (see index chart).

3. Plots of magnetic anomaly profiles along track-map scale = 1.2"/degree; anomaly scale between 15°N and 15°S latitude = 500 gamma/inch; anomaly scale north of 15°N and south of 15°S = 1000 gamma/inch) from values retrieved at approximately 1 mile spacing and regional field removed using the 1965 IGRF.

4. Card Decks of navigation, depth and magnetics (for specific formats, contact S.M. Smith, Geological Data Center).

5. S.I.O. Sample Index - list of beginning and end times and positions of all underway records as well as all other samples (geology, biology, physical oceanography, etc.) collected on the cruise leg.

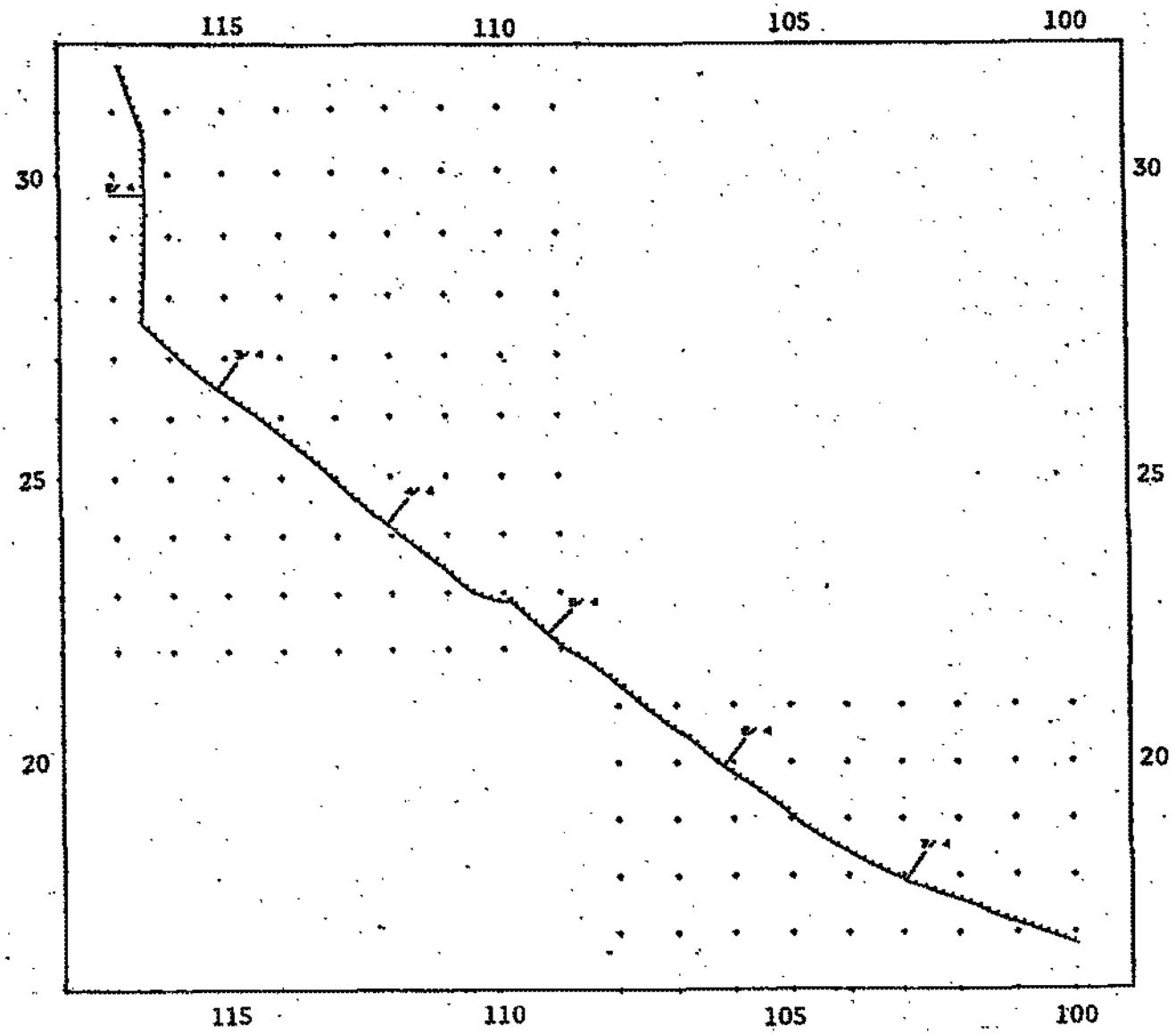
6. Microfilm or Xerox copies of:

   a. Echosounder records - 12 and 3.5 kHz frequency

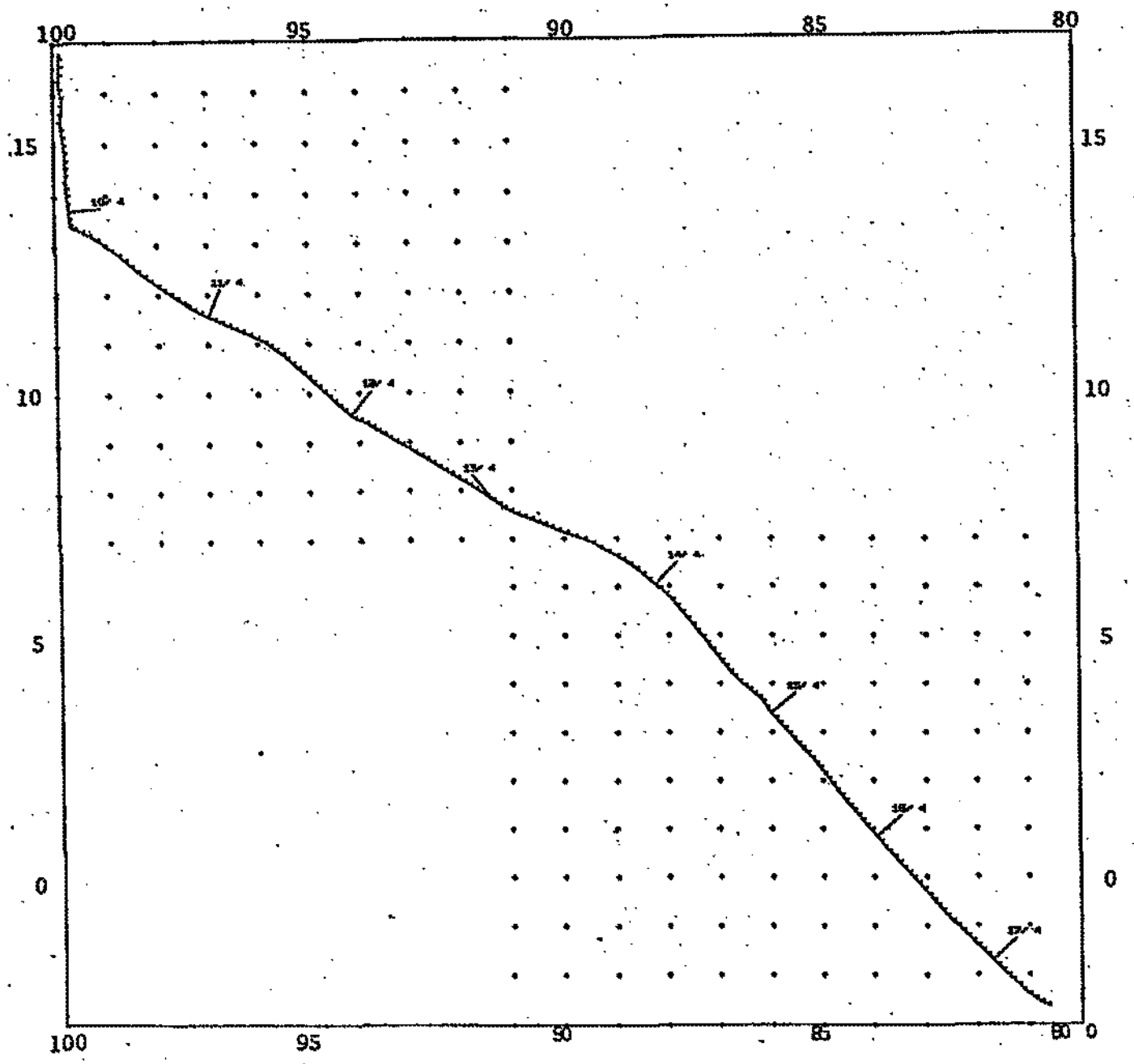
   b. Subbottom profiler records (airgun)

   c. Magnetometer records

   d. Underway Data Log



IGUANA LEG 1, track chart



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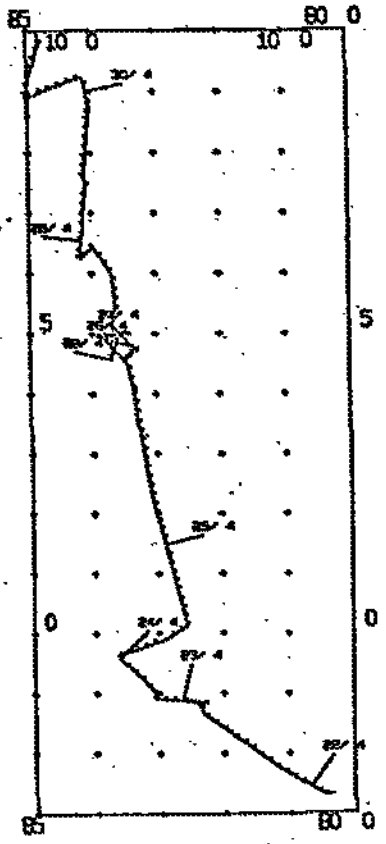

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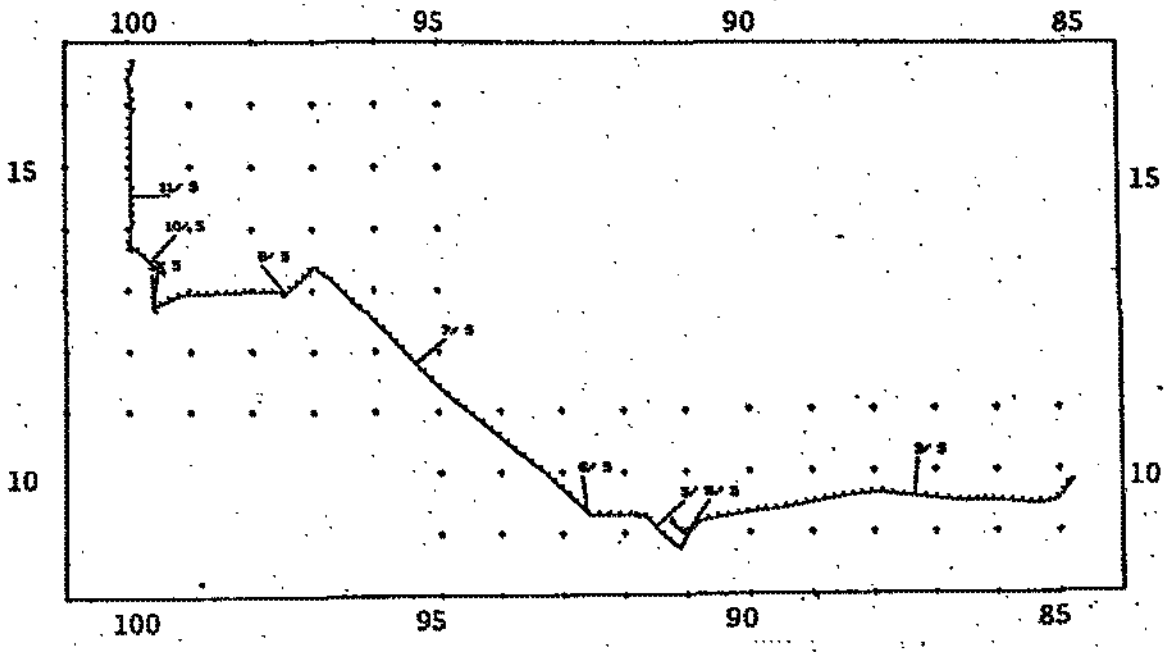

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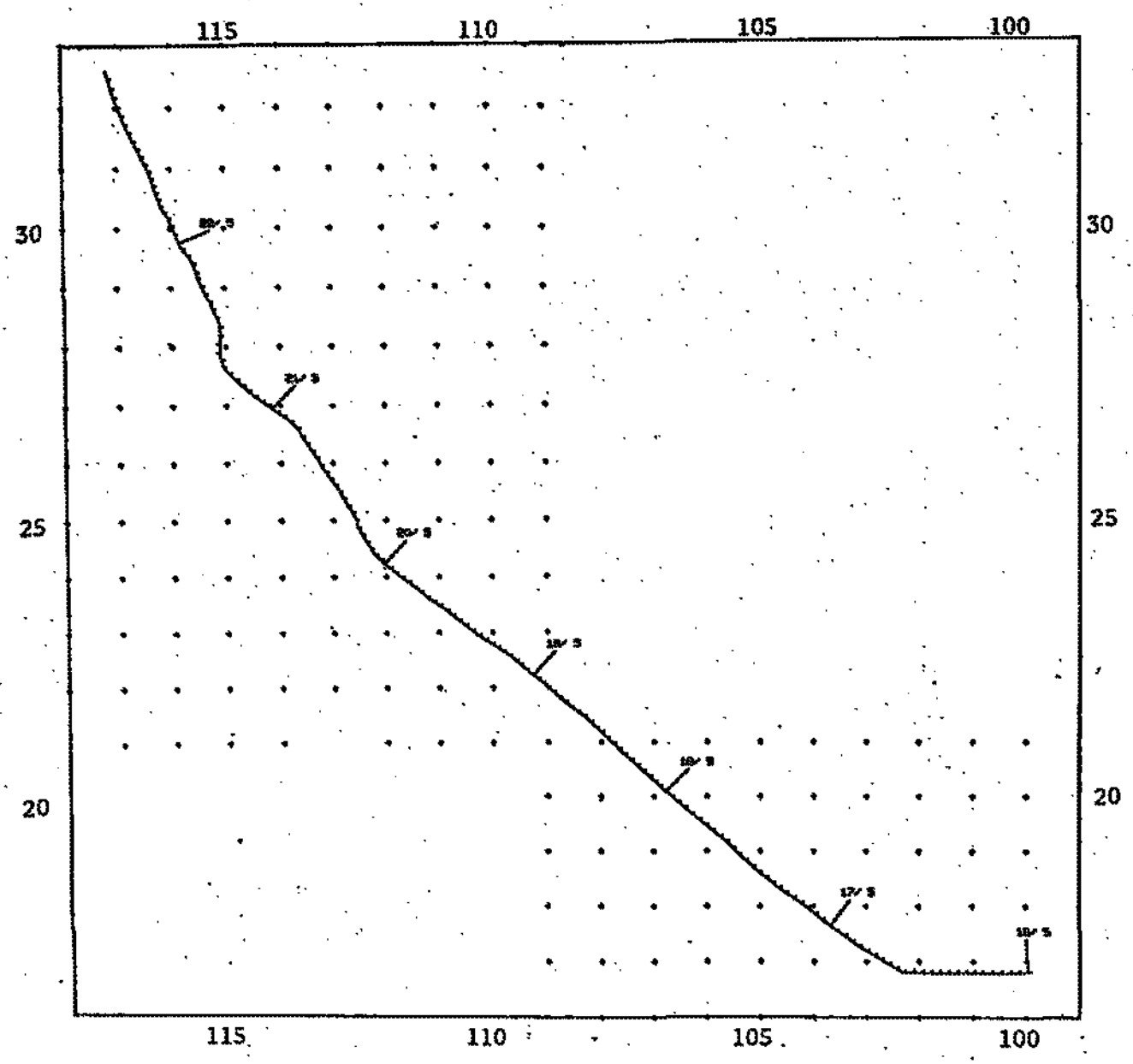
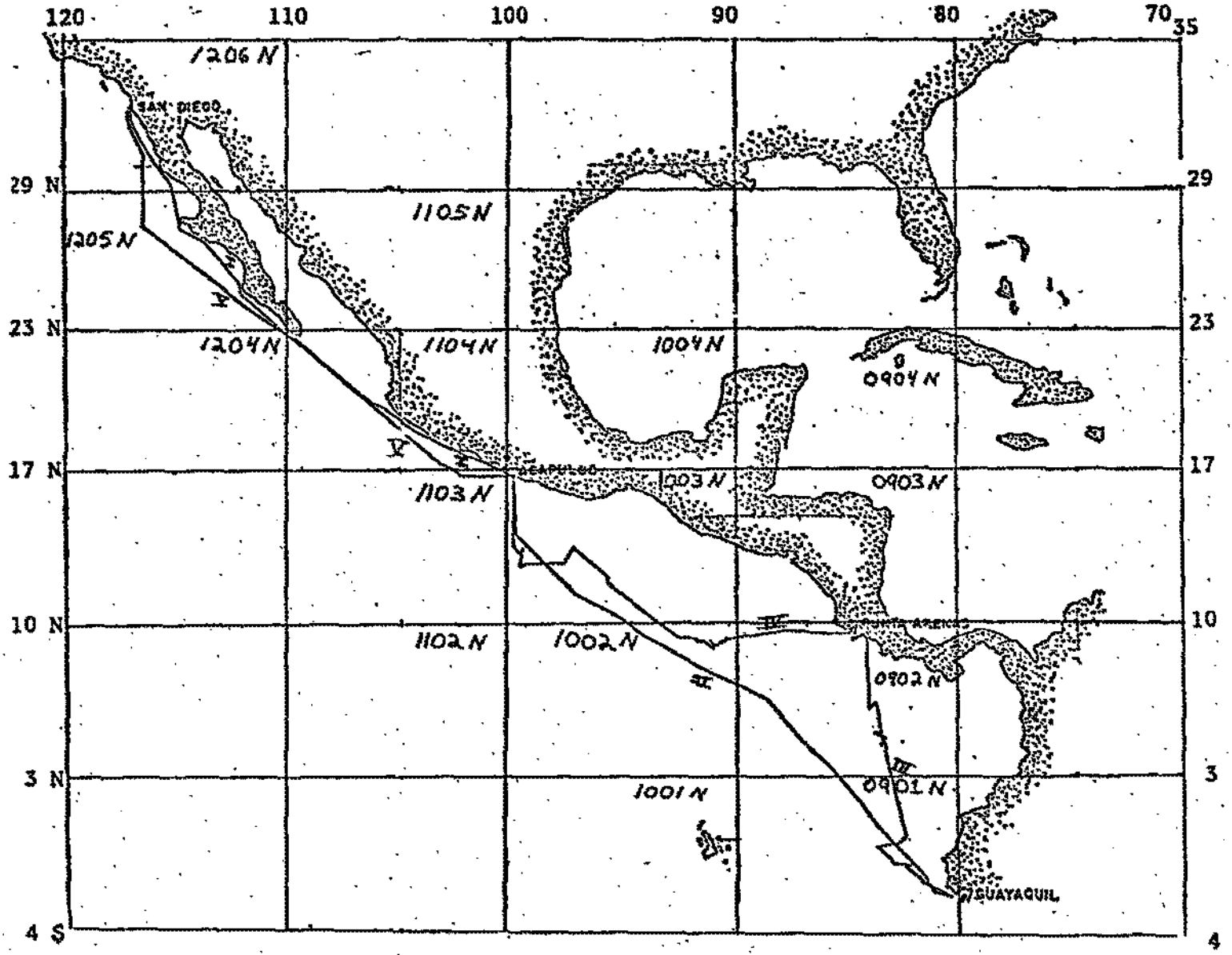


IGUANA LEG 5, track chart



IGUANA EXPEDITION

LEGS 1-5

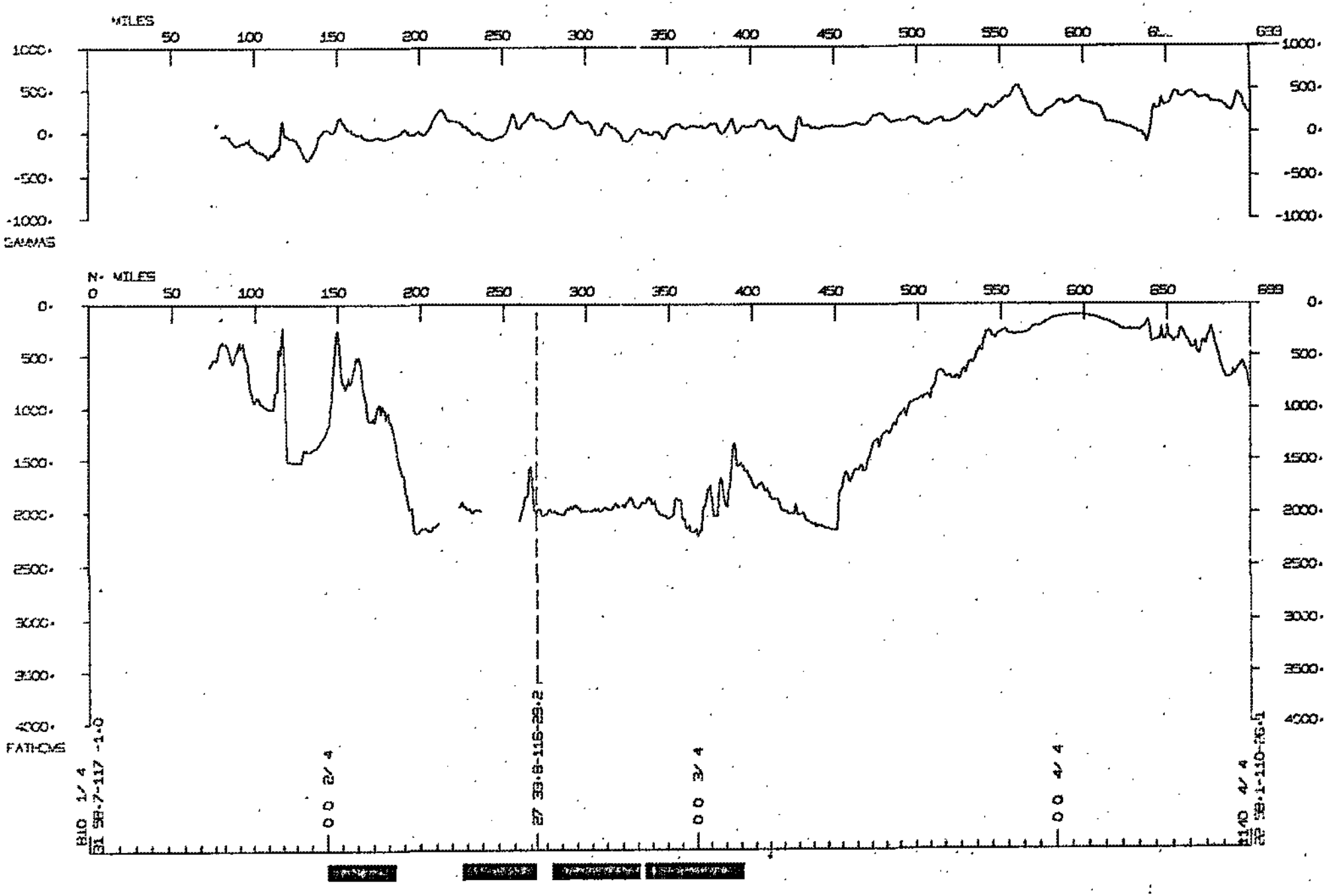
R/V E.B. SCRIPPS

CHIEF SCIENTIST- G.G.SHOR

Leg 1 San Diego - Acapulco (1 April 1972 to 7 April 1972)
Leg 2 Acapulco - Guayaquil (9 April 1972 to 17 April 1972)
Leg 3 Guayaquil - Punta Arenas (21 April 1972 to 30 April 1972)
Leg 4 Punta Arenas - Acapulco (2 May 1972 to 11 May 1972)
Leg 5 Acapulco - San Diego (15 May 1972 to 22 May 1972)

TOTAL MILEAGE

1) Cruise - 7217.5 miles
2) Bathymetry - 7070 miles
3) Magnetics - 6850 miles
4) Seismic Reflection - 4540 miles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GAMMAS
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2000
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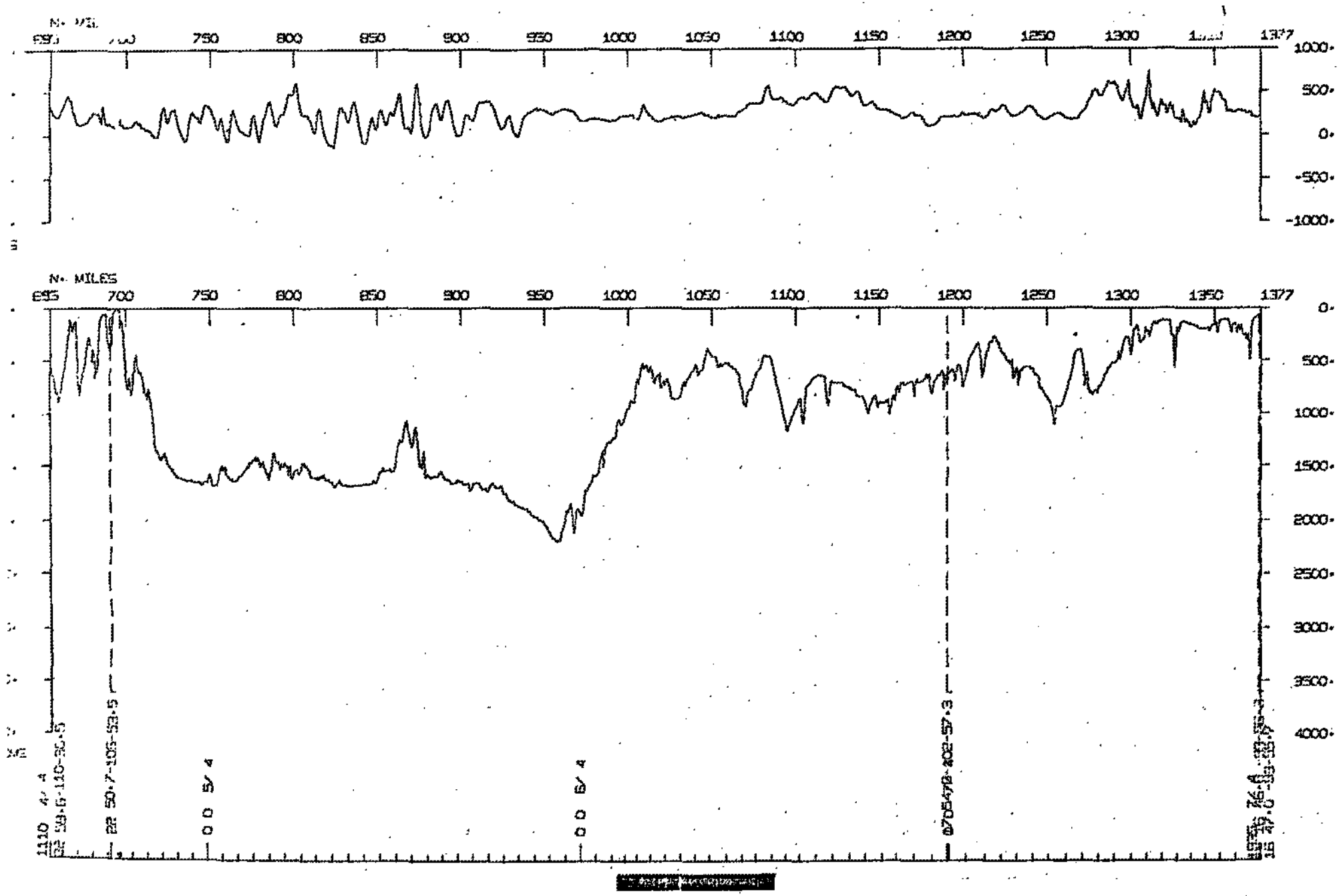
3500
4000
FATHOMS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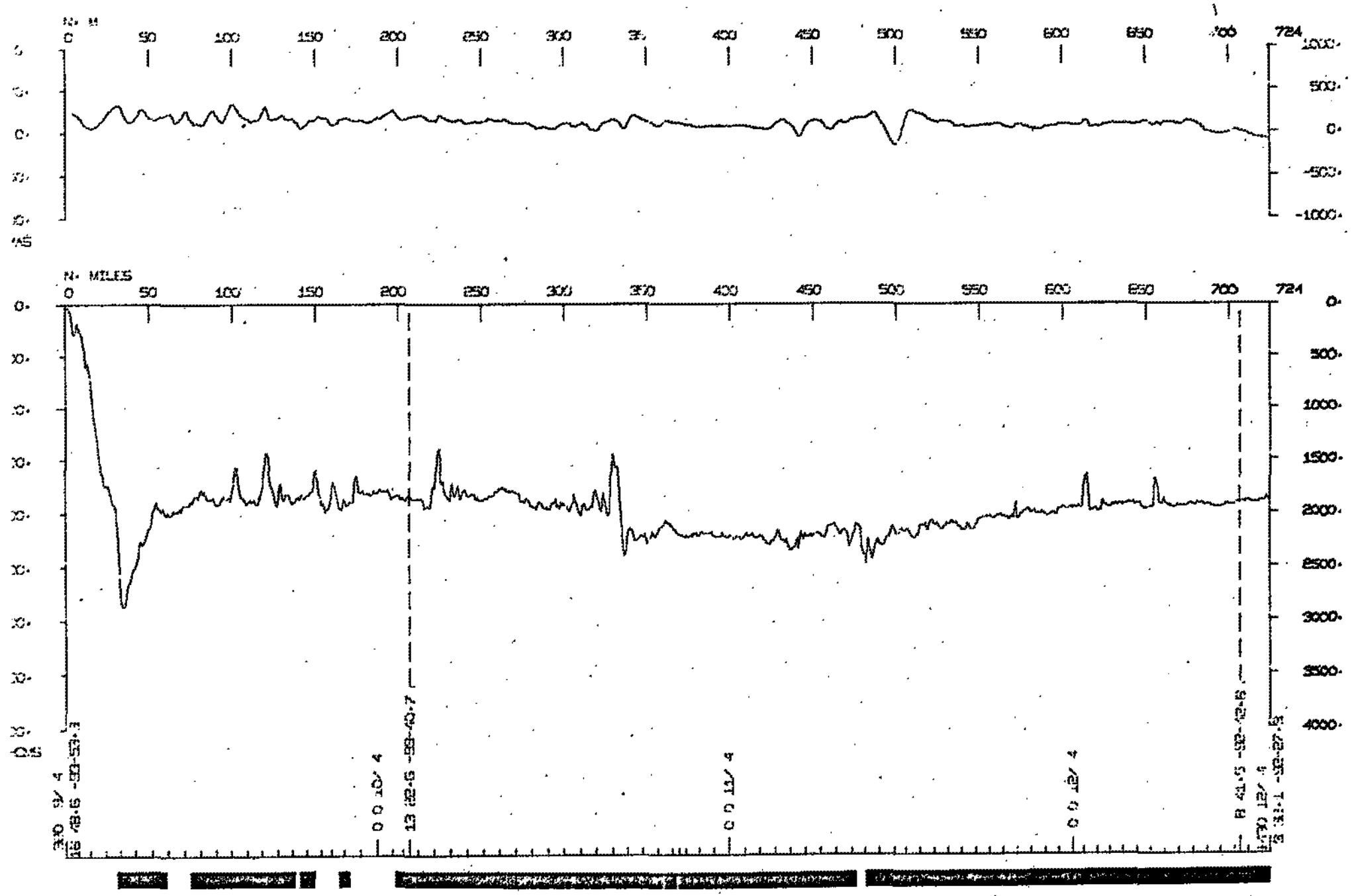
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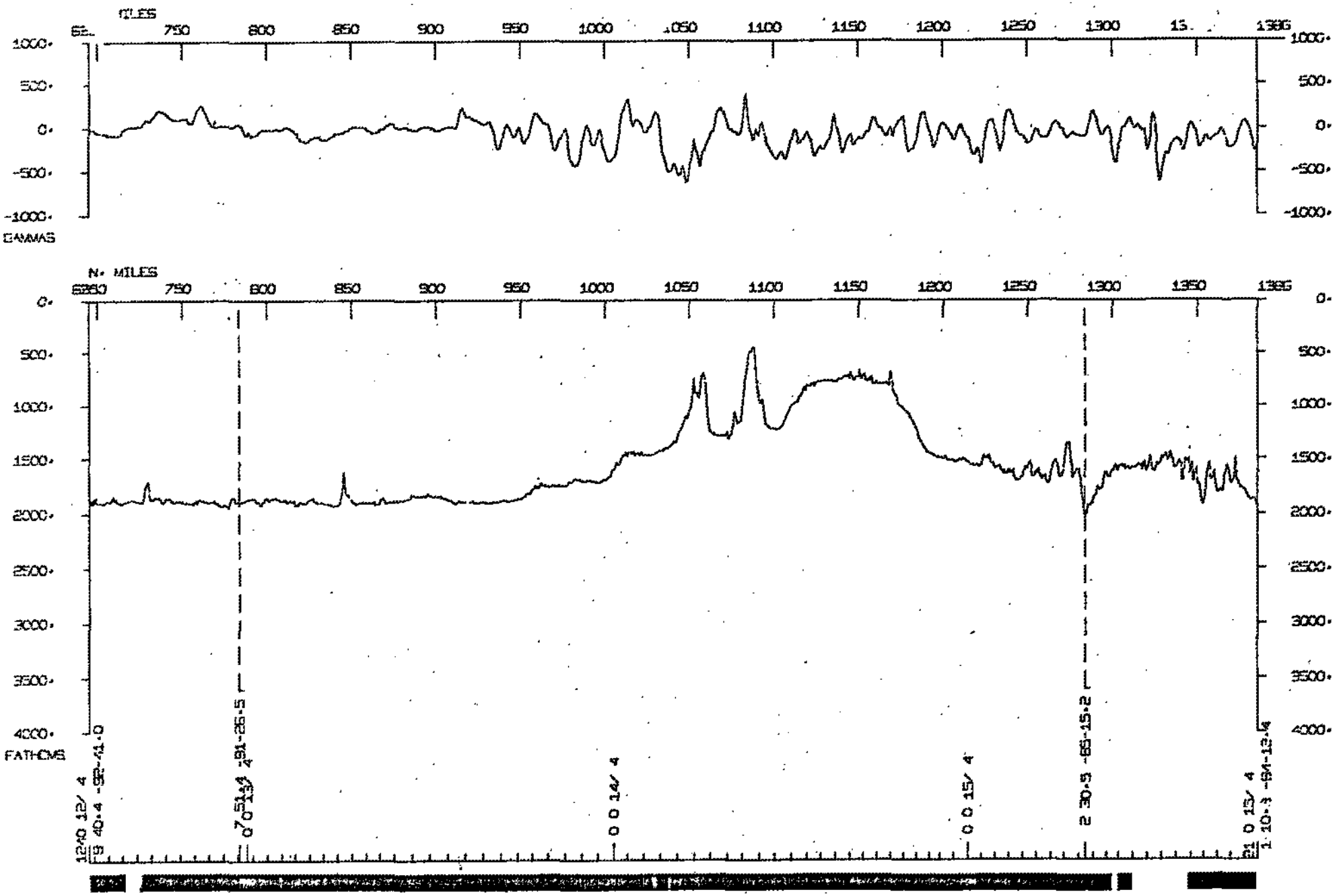
IGUANA LEG 2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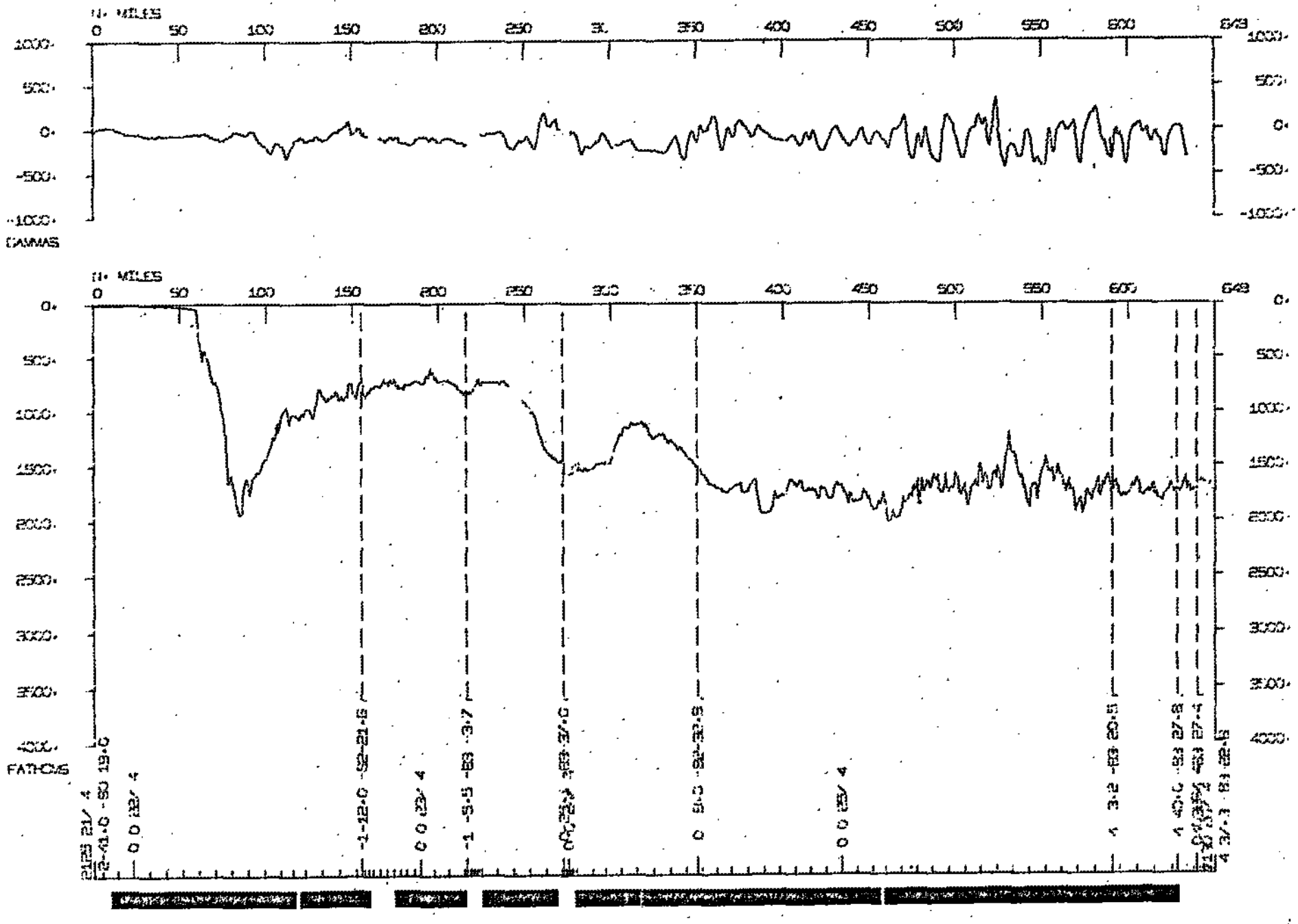
IGUANA LEG 3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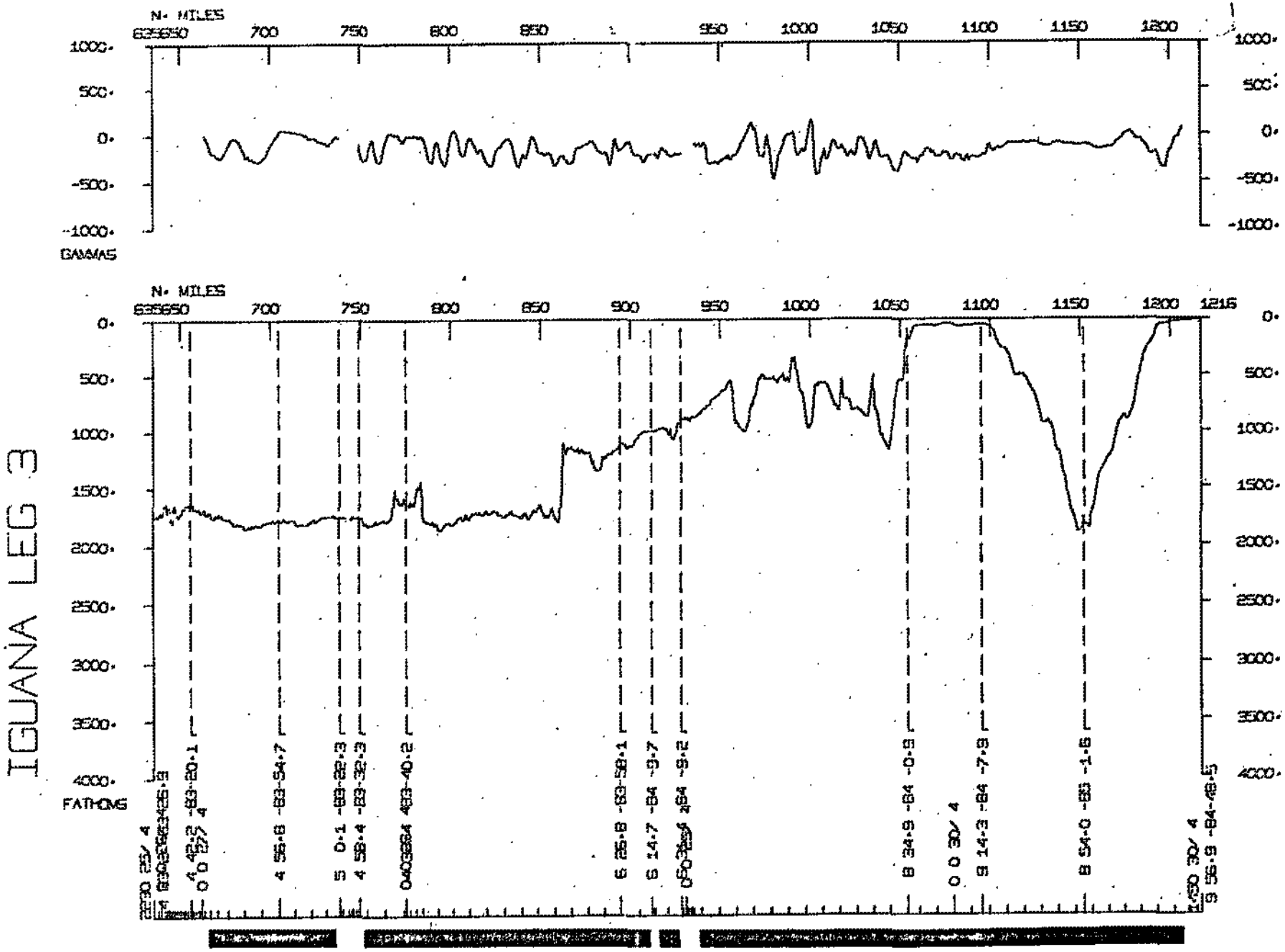
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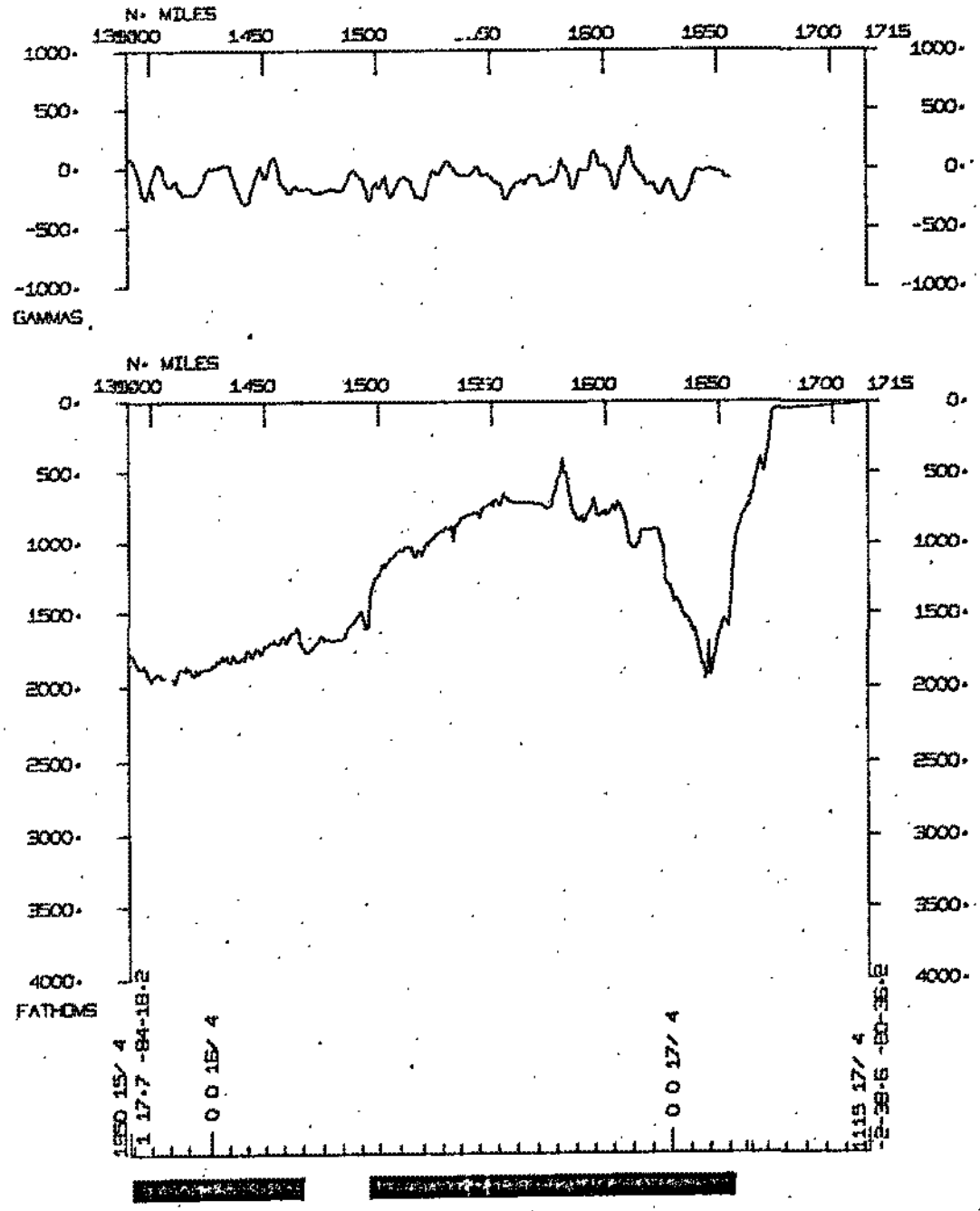
IGUANA LEG 2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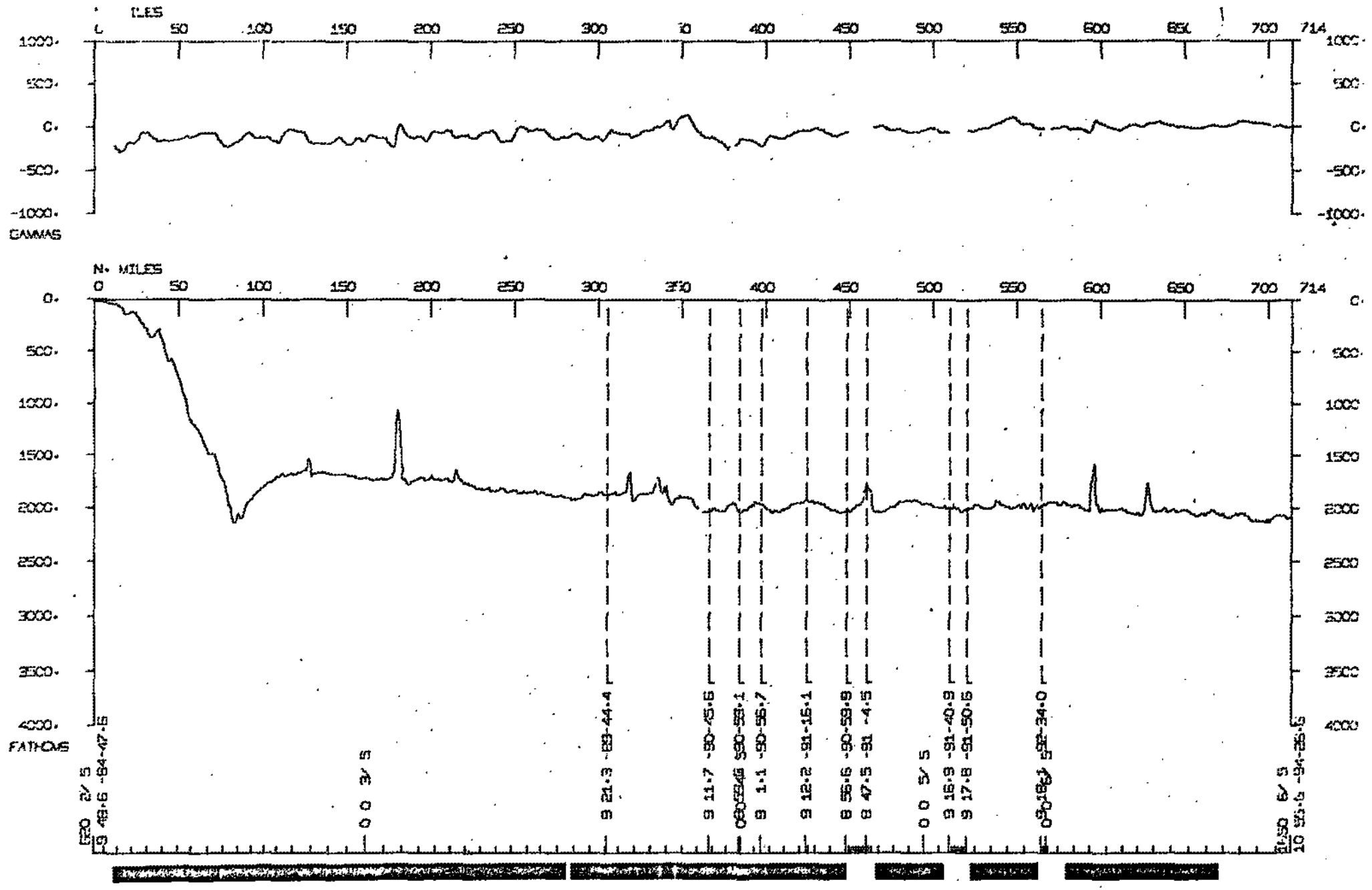
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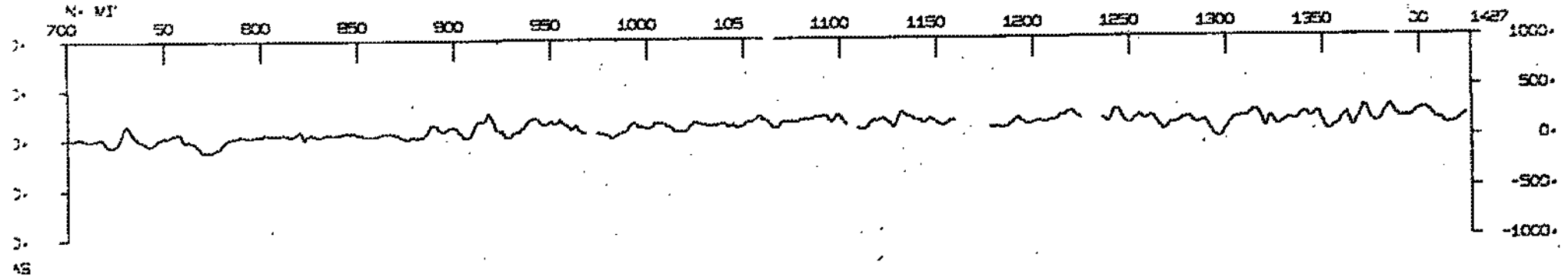
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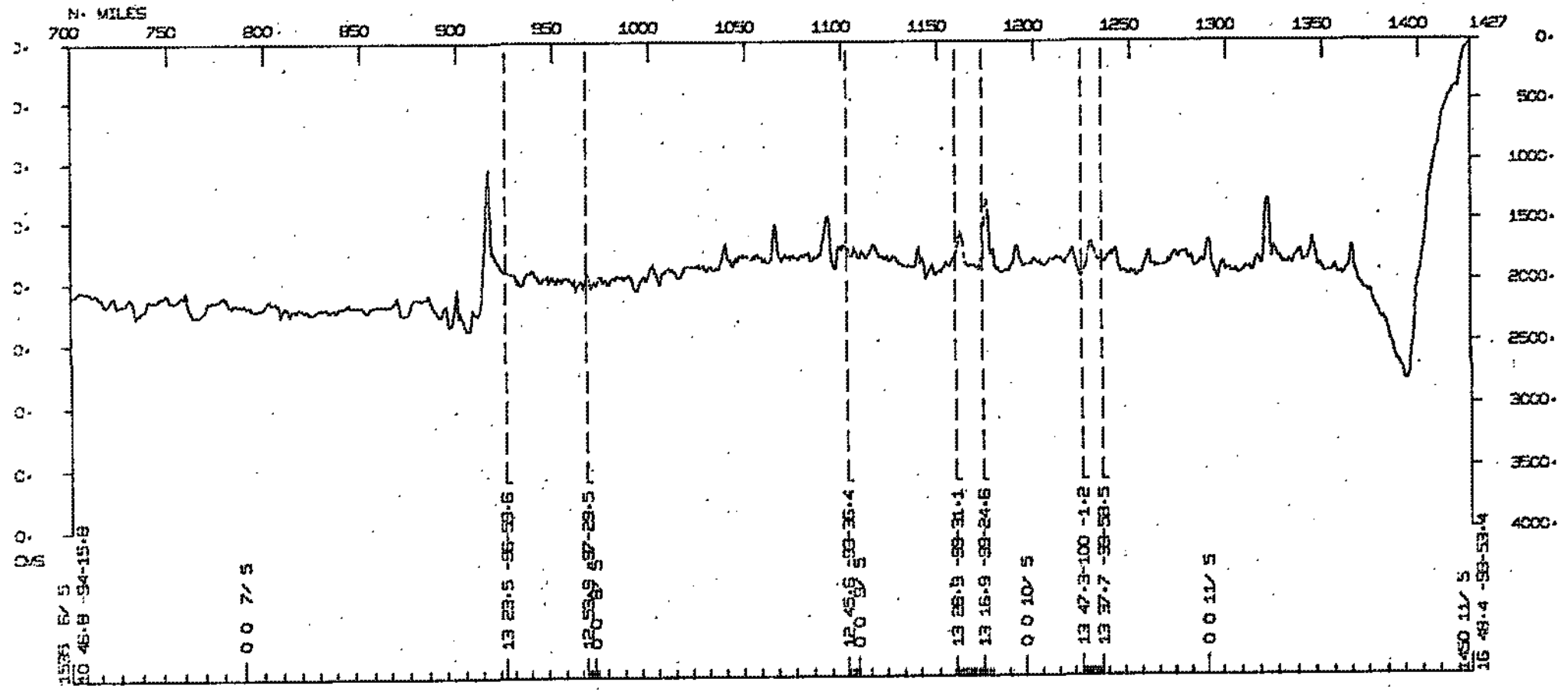
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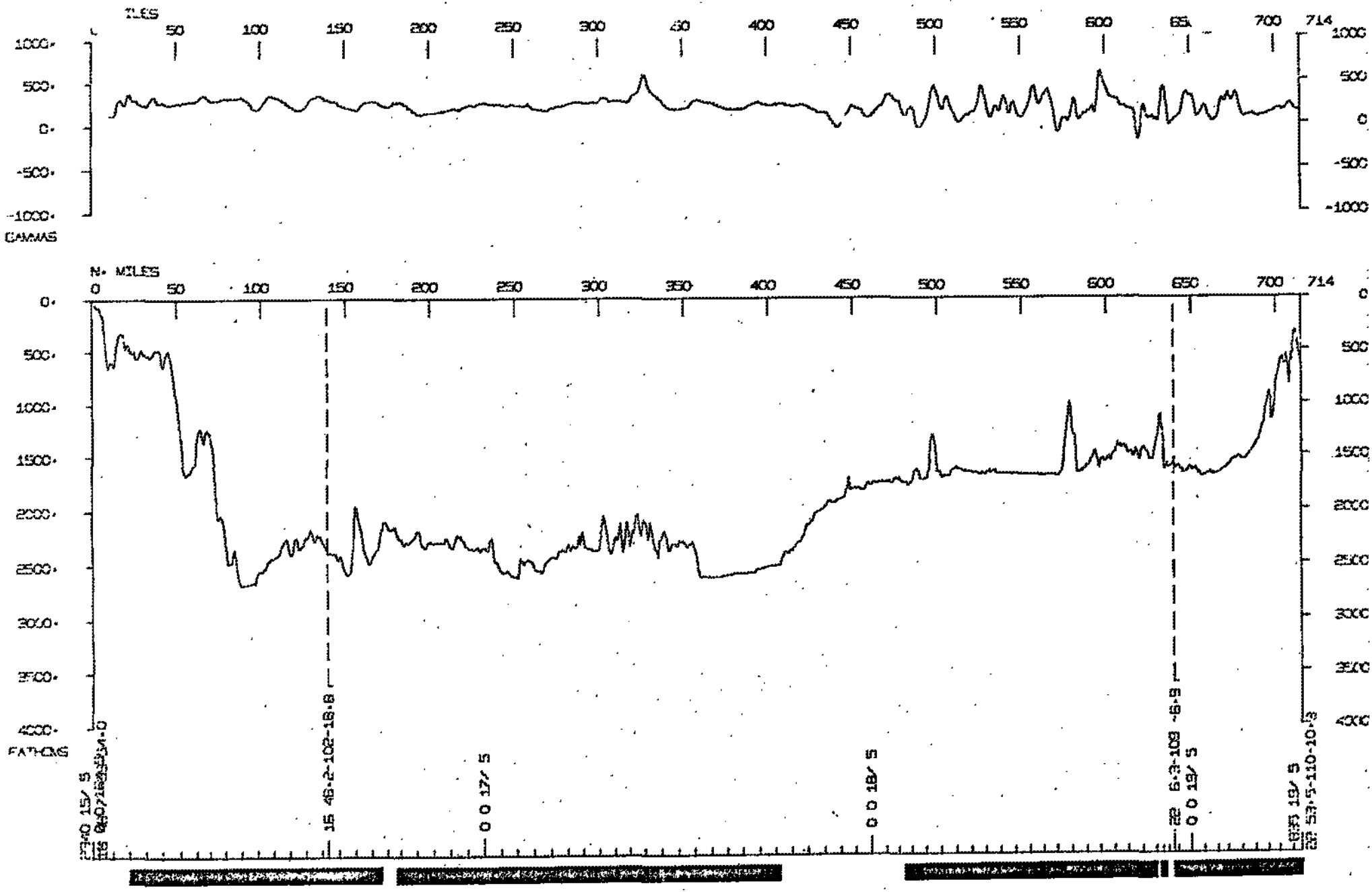
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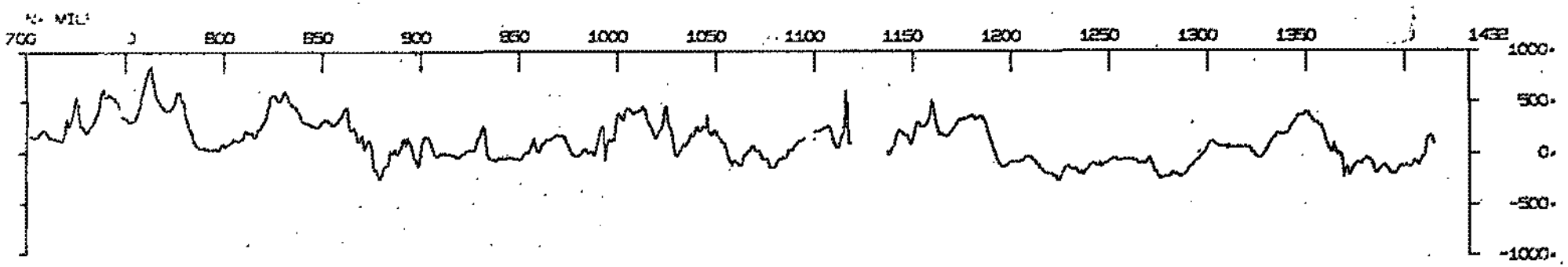
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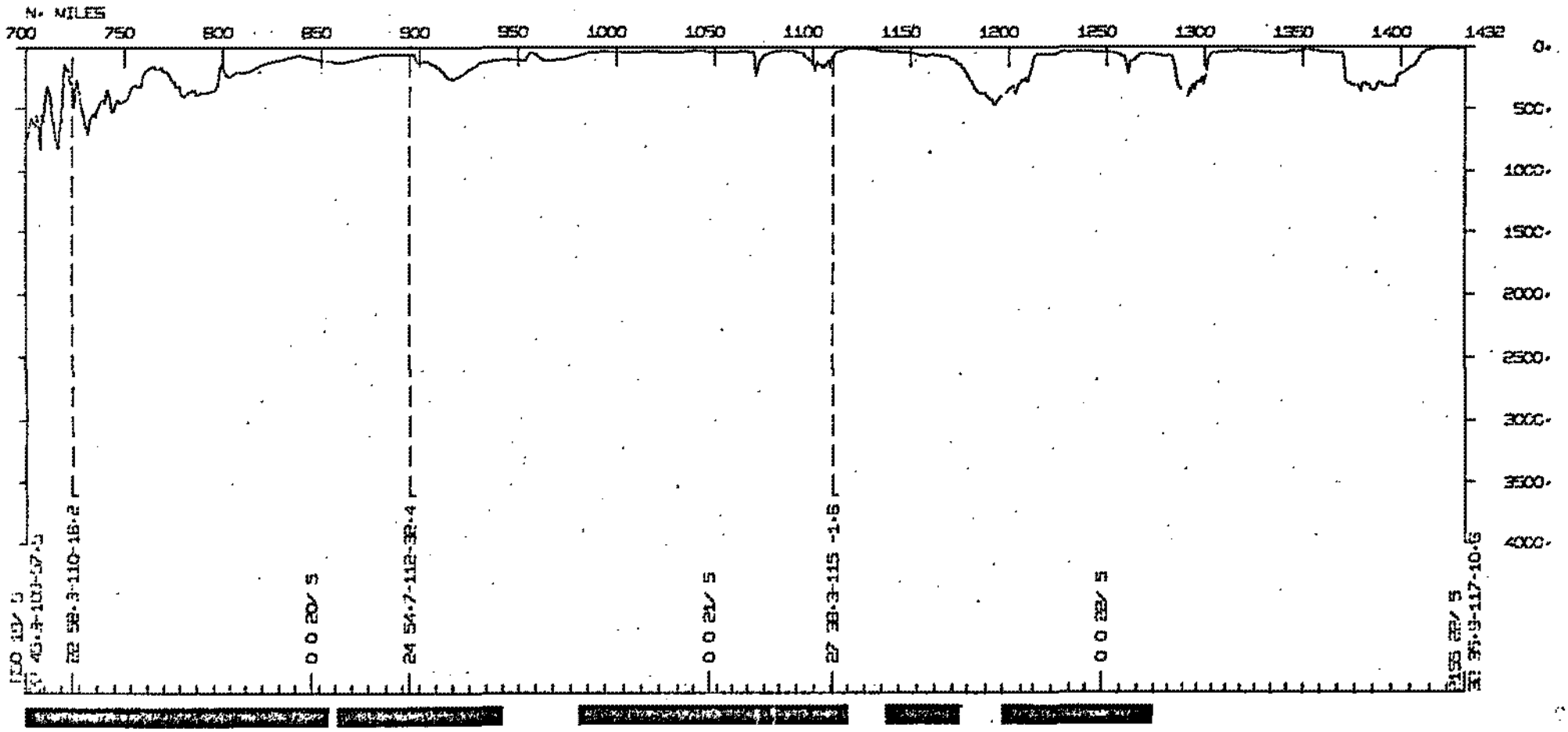
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LISTED 13 SEPTEMBER 1972

*** NOTE *** TIME ZONES AND MINUTES OF LATITUDE AND LONGITUDE ARE LISTED IN TENTHS (E.G. 10.6 IS LISTED AS 106)

1120	31	372	LG01 B	SAN DIEGO, CAL.		32	367N	117	109W	S	IGUA01EB
1958	7	472	LG01 E	ACAPULCO, MEX.		16	487N	99	533W	S	IGUA01EB

*** PERSONNEL ***

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0	0	0	0	PERT	W. E. KEITH	GRD	0	ON	0	OE	IGUA01EB
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0	0	0	0	PE	D. MCGOWAN	MPL	0	ON	0	OE	IGUA01EB

0244	090	472	LG02 B	ACAPULCO, MEX.		16	487N	99	533W	S	IGUA02EB
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0	0	0	0	PEAT	M. BARTH	SRG	0	ON	0	OE	IGUA02EB
0	0	0	0	PEAT	R. BONGARD	SRG	0	ON	0	OE	IGUA02EB
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1715	21	472	LG03 B	GUAYAQUIL, ECDOR		2	387S	80	361W	S	IGUA03EB
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0	0	0	0	PE	D. NEWHOUSE	GDC	0	ON	0	OE	IGUA03EB

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1453	11	572	LG04 E	ACAPULCO, MEX.		16	487N	99	533W	S	IGUA04EB

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0	0	0	0	PEAT	R. BONGARD	SRG	0	ON	0	OE	IGUA04EB
0	0	0	0	PE	M. HENRY	MPL	0	ON	0	OE	IGUA04EB
0	0	0	0	PE	D. MCGOWAN	MPL	0	ON	0	OE	IGUA04EB
0	0	0	0	PE	D. NEWHOUSE	GDC	0	ON	0	OE	IGUA04EB

2305	15	572	LG05 B	ACAPULCO, MEX.		16	487N	99	533W	S	IGUA05EB
2200	22	572	LG05 E	SAN DIEGO, CAL.		32	367N	117	109W	S	IGUA05EB

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*** LOG BOOKS ***

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1120	31	372		LBSC B	U/W WATCH LOG		GDC	32 367N	117 109W S	IGUA01EB
2200	22	572		LBSC E	U/W WATCH LOG		GDC	32 367N	117 109W S	IGUA05EB
1120	31	372		LB B	XBT LOG		GDC	32 367N	117 109W S	IGUA01EB
2200	22	572		LB E	XBT LOG		GDC	32 367N	117 109W S	IGUA05EB

UNDERWAY DATA - CURATOR T.E. CHASE 2ND FLOOR AQUARIUM (EXT.1534)

***FATHOGRAMS ***

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
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1710	4	472		DPRT B	GDR 12KHZ-ROLL 2		GDC	22 527N	109 544W S	IGUA01EB
1958	7	472		DPRT E	GDR 12KHZ-ROLL 2		GDC	16 487N	99 533W S	IGUA01EB
244	9	472		DPRT B	GDR 12KHZ-ROLL 3		GDC	16 487N	99 533W S	IGUA02EB
740	13	472		DPRT E	GDR 12KHZ-ROLL 3		GDC	7 217N	90 315W S	IGUA02EB
759	13	472		DPRT B	GDR 12KHZ-ROLL 4		GDC	7 207N	90 291W S	IGUA02EB
2135	15	472		DPRT E	GDR 12KHZ-ROLL 4		GDC	1 67N	84 95W S	IGUA02EB
2214	15	472		DPRT B	GDR 12KHZ-ROLL 5		GDC	1 27N	84 62W S	IGUA02EB
1300	17	472		DPRT E	GDR 12KHZ-ROLL 5		GDC	2 387S	80 361W S	IGUA02EB
2125	21	472		DPRT B	GDR 12KHZ-ROLL 6		GDC	2 410S	80 190W S	IGUA03EB
1003	23	472		DPRT E	GDR 12KHZ-ROLL 6		GDC	1 6S	83 30W S	IGUA03EB
1013	23	472		DPRT B	GDR 12KHZ-ROLL 7		GDC	1 5S	83 31W S	IGUA03EB
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1624	29	472		DPRT B	GDR 12KHZ-ROLL 9		GDC	7 519N	84 47W S	IGUA03EB
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54	4	572		DPRT B	GDR 12KHZ-ROLL10		GDC	9 47N	90 599W S	IGUA04EB
1515	7	572		DPRT E	GDR 12KHZ-ROLL10		GDC	13 180N	97 37W S	IGUA04EB
1517	7	572		DPRT B	GDR 12KHZ-ROLL11		GDC	13 184N	97 38W S	IGUA04EB
549	11	572		DPRT E	GDR 12KHZ-ROLL11		GDC	15 264N	99 573W S	IGUA04EB
5	1	572		DPRT B	GDR 12KHZ-ROLL12		GDC	15 2[illegible]	99 573W S	IGUA04EB
145[illegible]	1	572		DPRT E	GDR 12KHZ-ROLL12		GDC	16 4[illegible]	99 533W S	IGUA04EB

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
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233	18	572		DPRT E	GDR 12KHZ-ROLL13		GDC	20 187N	107 12W S	IGUA05EB
240	18	572		DPRT B	GDR 12KHZ-ROLL14		GDC	20 194N	107 20W S	IGUA05EB
1646	21	572		DPRT E	GDR 12KHZ-ROLL14		GDC	28 510N	115 197W S	IGUA05EB
1648	21	572		DPRT B	GDR 12KHZ-ROLL15		GDC	28 512N	115 198W S	IGUA05EB
2200	22	572		DPRT E	GDR 12KHZ-ROLL15		GDC	32 367N	117 109W S	IGUA05EB

*** SEISMIC REFLECTION PROFILES ***

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
0	2	472		SPRF B	AIRGUN-RF-ROLL	1	GDC	29 402N	116 268W S	IGUA01EB
1500	2	572		SPRF E	AIRGUN-RF-ROLL	1	GDC	9 286N	85 565W S	IGUA04EB
1510	2	572		SPRF B	AIRGUN-RF-ROLL	2	GDC	9 286N	85 565W S	IGUA04EB
319	22	572		SPRF E	AIRGUN-RF-ROLL	2	GDC	30 109N	116 19W S	IGUA05EB
0	2	472		SPRS B	AIRGUN-RS-ROLL	1	GDC	29 402N	116 268W S	IGUA01EB
319	22	572		SPRS E	AIRGUN-RS-ROLL	1	GDC	30 109N	116 19W S	IGUA05EB

*** MAGNETOMETER ***

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1644	1	472		MGR B	MAGNET-ROLL	1	GDC	30 429N	116 299W S	IGUA01EB
1728	10	472		MGR E	MAGNET-ROLL	1	GDC	11 579N	97 407W S	IGUA02EB
1738	10	472		MGR B	MAGNET-ROLL	2	GDC	11 571N	97 394W S	IGUA02EB
1508	28	472		MGR E	MAGNET-ROLL	2	GDC	6 257N	83 592W S	IGUA03EB
1520	28	472		MGR B	MAGNET-ROLL	3	GDC	6 242N	84 7W S	IGUA03EB
427	19	572		MGR E	MAGNET-ROLL	3	GDC	22 354N	109 428W S	IGUA05EB
437	19	572		MGR B	MAGNET-ROLL	4	GDC	22 362N	109 440W S	IGUA05EB
2013	22	572		MGR E	MAGNET-ROLL	4	GDC	32 205N	117 52W S	IGUA05EB

*** SEISMIC REFRACTION ***

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1945	5	472		SRUR B	IGUA 2-S1		RFN	20 231N	106 460W	S IGUA01EB
2205	5	472		SRUR E	IGUA 2-S1		RFN	20 051N	106 242W	S IGUA01EB
2324	6	472		SRUR B	IGUA 2-S2		RFN	17 566N	103 004W	S IGUA01EB
27	7	472		SRUR E	IGUA 2-S2		RFN	17 523N	102 538W	S IGUA01EB
1448	22	472		SRRV B	IGUA 3-1-1+2		RFN	1 117S	82 208W	S IGUA03EB
942	23	472		SRRV E	IGUA 3-1-1+2		RFN	1 9S	83 29W	S IGUA03EB
1848	23	472		SRRV B	IGUA 3-2-1+2+3		RFN	0 252S	83 364W	S IGUA03EB
1432	24	472		SRRV E	IGUA 3-2-1+2+3		RFN	0 70N	82 332W	S IGUA03EB
745	26	472		SRAN B	IGUA 3-3-1THRU8		RFN	4 330N	83 256W	S IGUA03EB
721	28	472		SRAN E	IGUA 3-3-1THRU8		RFN	5 212N	83 377W	S IGUA03EB
1922	28	472		SRAN B	IGUA 3-4-1THRU5		RFN	6 131N	84 98W	S IGUA03EB
1602	29	472		SRAN E	IGUA 3-4-1THRU5		RFN	7 484N	84 50W	S IGUA03EB
1518	3	572		SRUR B	IGUA 4-S1		RFN	9 214N	89 454W	S IGUA04EB
1930	3	572		SRUR E	IGUA 4-S1		RFN	9 134N	90 248W	S IGUA04EB
201	4	572		SRUR B	IGUA 4-S2		RFN	8 582N	91 2W	S IGUA04EB
422	4	572		SRUR E	IGUA 4-S2		RFN	9 120N	91 159W	S IGUA04EB
958	4	572		SRAN B	IGUA 4-5-1THRU10		RFN	8 555N	91 6W	S IGUA04EB
146	6	572		SRAN E	IGUA 4-5-1THUR10		RFN	9 202N	92 355W	S IGUA04EB
2235	6	572		SRRV B	IGUA 4-6-1		RFN	11 369N	95 128W	S IGUA04EB
302	7	572		SRRV E	IGUA 4-6-1		RFN	12 97N	95 429W	S IGUA04EB
1406	7	572		SRRV B	IGUA 4-7-1,2,3		RFN	13 223N	96 583W	S IGUA04EB
154	8	572		SRRV E	IGUA 4-7-1,2,3		RFN	12 581N	97 261W	S IGUA04EB
1733	8	572		SRAN S	IGUA 4-8-1THRU11		RFN	12 434N	99 364W	S IGUA04EB
1651	10	572		SRAN E	IGUA 4-8-1THRU11		RFN	13 377N	99 584W	S IGUA04EB

BATHYTHERMOGRAPHS - CURATOR MARGARET ROBINSON (EXT.1135)

*** BATHYTHERMOGRAPH ****

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1720	3	472		BTX	XBT 1		BTS	24 530N	112 567W	S IGUA01EB
626	4	472		BTX	XBT 2		BTS	23 303N	111 102W	S IGUA01EB
607	5	472		BTX	XBT 3		BTS	21 419N	108 248W	S IGUA01EB
1804	5	472		BTX	XBT 4		BTS	20 301N	106 533W	S IGUA01EB
608	6	472		BTX	XBT 5		BTS	19 248N	105 248W	S IGUA01EB
18[illegible]	6	472		BTX	XBT 6		BTS	18 [illegible]4N	103 513W	S IGUA01EB
[illegible]	7	472		BTX	XBT 7		BTS	17 [illegible]N	101 554W	S IGUA01EB
11[illegible]	7	472		BTX	XBT 8		BTS	16 [illegible]N	100 94W	S IGUA01EB

TI GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.		CRUISE LEG-SHIP
1210	9	472		BTX	XBT 9		BTS	15 263N	99 519W	S	IGUA02EB
7	10	472		BTX	XBT 10		BTS	13 407N	99 434W	S	IGUA02EB
1215	10	472		BTX	XBT 11		BTS	12 271N	98 213W	S	IGUA02EB
19	11	472		BTX	XBT 12		BTS	11 320N	96 565W	S	IGUA02EB
1203	11	472		BTX	XBT 13		BTS	10 416N	95 243W	S	IGUA02EB
4	12	472		BTX	XBT 14		BTS	9 356N	94 94W	S	IGUA02EB
1220	12	472		BTX	XBT 15		BTS	8 419N	92 434W	S	IGUA02EB
5	13	472		BTX	XBT 16		BTS	7 498N	91 230W	S	IGUA02EB
1208	13	472		BTX	XBT 17		BTS	7 61N	89 547W	S	IGUA02EB
4	14	472		BTX	XBT 18		BTS	6 25N	88 160W	S	IGUA02EB
1215	14	472		BTX	XBT 19		BTS	4 334N	87 16W	S	IGUA02EB
133	15	472		BTX	XBT 20		BTS	3 139N	85 526W	S	IGUA02EB
1205	15	472		BTX	XBT 21		BTS	2 63N	84 575W	S	IGUA02EB
3	16	472		BTX	XBT 22		BTS	0 503N	83 550W	S	IGUA02EB
1108	16	472		BTX	XBT 23		BTS	0 230S	82 554W	S	IGUA02EB
2315	16	472		BTX	XBT 24		BTS	1 375S	81 461W	S	IGUA02EB
1205	22	472		BTX	XBT 25		BTS	1 265S	82 77W	S	IGUA03EB
10	23	472		BTX	XBT 26		BTS	1 72S	82 381W	S	IGUA03EB
1210	23	472		BTX	XBT 27		BTS	0 577S	83 48W	S	IGUA03EB
58	24	472		BTX	XBT 28		BTS	0 232S	83 367W	S	IGUA03EB
11	25	472		BTX	XBT 29		BTS	1 307N	82 526W	S	IGUA03EB
1210	25	472		BTX	XBT 30		BTS	3 170N	83 143W	S	IGUA03EB
10	26	472		BTX	XBT 31		BTS	4 325N	83 276W	S	IGUA03EB
1250	26	472		BTX	XBT 32		BTS	4 364N	83 219W	S	IGUA03EB
100	27	472		BTX	XBT 33		BTS	4 436N	83 155W	S	IGUA03EB
1210	26	472		BTX	XBT 34		BTS	4 379N	83 224W	S	IGUA03EB
17	28	472		BTX	XBT 35		BTS	4 336N	83 403W	S	IGUA03EB
1205	28	472		BTX	XBT 36		BTS	6 44N	83 435W	S	IGUA03EB
8	29	472		BTX	XBT 37		BTS	6 331N	84 95W	S	IGUA03EB
1210	29	472		BTX	XBT 38		BTS	7 117N	84 57W	S	IGUA03EB
550	30	472		BTX	XBT 39		BTS	9 2N	84 466W	S	IGUA03EB
1205	2	572		BTX	XBT 40		BTS	9 260N	85 282W	S	IGUA04EB
24	3	572		BTX	XBT 41		BTS	9 340N	87 251W	S	IGUA04EB
1210	3	572		BTX	XBT 42		BTS	9 251N	89 173W	S	IGUA04EB
14	4	572		BTX	XBT 43		BTS	9 13N	91 15W	S	IGUA04EB
1206	4	572		BTX	XBT 44		BTS	8 542N	91 7W	S	IGUA04EB
10	5	572		BTX	XBT 45		BTS	9 73N	91 311W	S	IGUA04EB
1215	5	572		BTX	XBT 46		BTS	9 174N	91 504W	S	IGUA04EB
7	6	572		BTX	XBT 47		BTS	9 193N	92 355W	S	IGUA04EB
1222	6	572		BTX	XBT 48		BTS	10 255N	93 498W	S	IGUA04EB
430	7	572		BTX	XBT 49		BTS	12 196N	95 522W	S	IGUA04EB
1210	7	572		BTX	XBT 50		BTS	13 113N	96 451W	S	IGUA04EB
11	8	572		BTX	XBT 51		BTS	12 570N	97 272W	S	IGUA04EB
1145	8	572		BTX	XBT 52		BTS	12 561N	98 505W	S	IGUA04EB
45	9	572		BTX	XBT 53		BTS	12 399N	99 352W	S	IGUA04EB
1159	9	572		BTX	XBT 54		BTS	13 255N	99 202W	S	IGUA04EB
33	10	572		BTX	XBT 55		BTS	13 309N	99 433W	S	IGUA04EB
1156	10	572		BTX	XBT 56		BTS	13 410N	99 582W	S	IGUA04EB
1204	16	572		BTX	XBT 58		BTS	16 478N	101 560W	S	IGUA05EB
125	17	572		BTX	XBT 59		BTS	17 467N	103 521W	S	IGUA05EB
1204	17	572		BTX	XBT 60		BTS	18 493N	105 160W	S	IGUA05EB
130	18	572		BTX	XBT 61		BTS	20 140N	106 564W	S	IGUA05EB
1206	18	572		BTX	XBT 62		BTS	21 147N	108 61W	S	IGUA05EB
1204	19	572		BTX	XBT 63		BTS	23 136N	110 365W	S	IGUA05EB

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END SAMPLE INDEX