

INFORMAL REPORT AND INDEX OF
NAVIGATION, DEPTH AND MAGNETIC DATA

(Issued January 1979)

INDOMED EXPEDITION

LEG 12

San Juan, Puerto Rico (28 September 1978)
to
Montevideo, Uruguay (1 November 1978)
R/V Melville

Chief Scientist - Wolfgang Berger (SIO)
Resident Tech - Sharon Witherow

Post-Cruise Processing and Report Preparation
by S.I.O. Geological Data Center

Data Collection Funded by NSF
Grant Number OCE76-84029
Data Processing Funded by SIA, NSF, ONR

NOTE: This is an index of underway geophysical data edited and processed shortly after the completion of the cruise leg and is intended primarily for informal use within the institution. This document is not to be reproduced or distributed outside Scripps without prior approval of the Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093.

Informal Report and Index of Navigation, Depth, Magnetic and Subbottom Profiler Data*

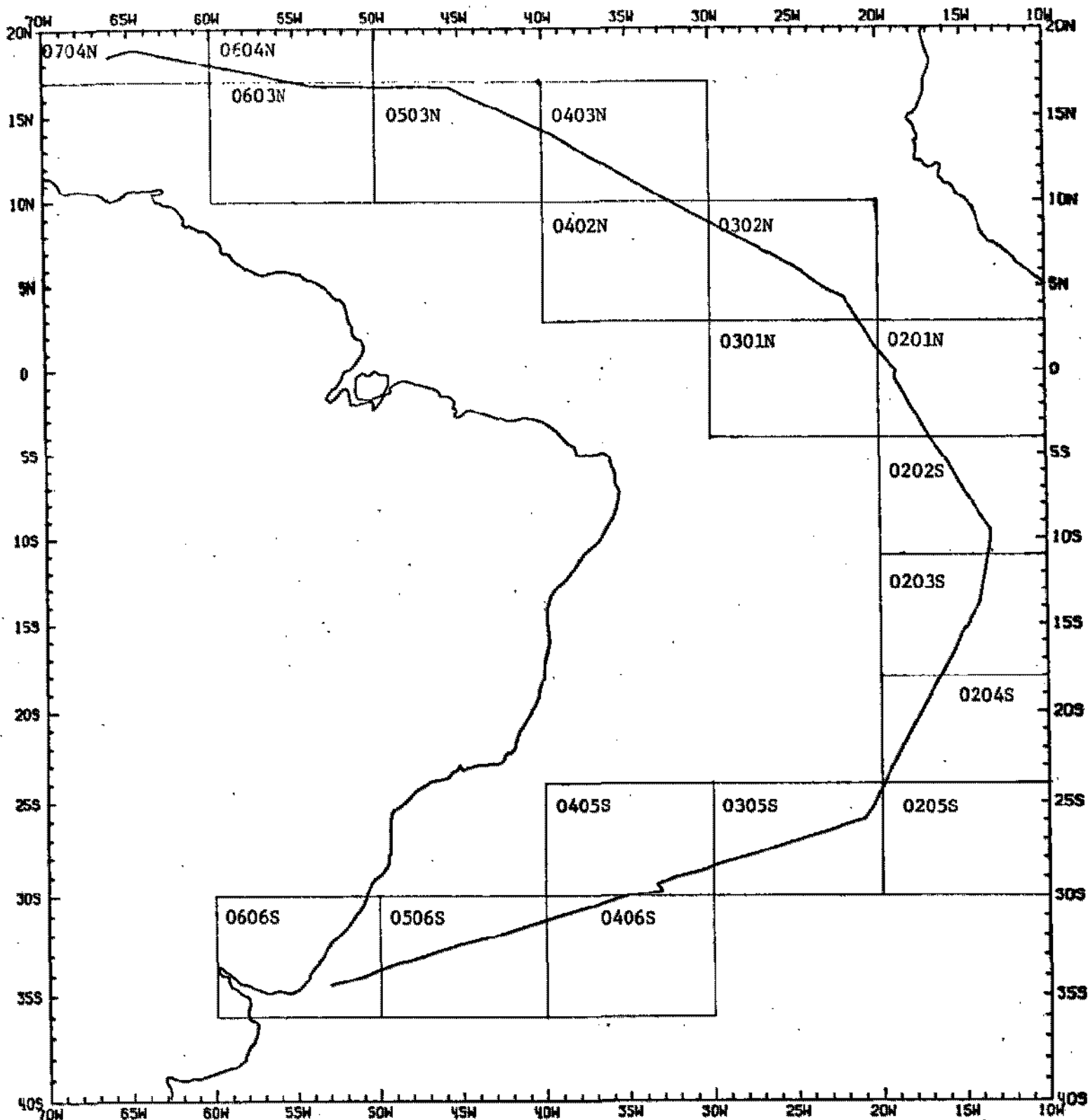
Contents:

- 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 is .3"/deg. long.
- 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 S. M. Smith, Curator, Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093. Phone: (714) 452-2752.

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 gamm/inch; anomaly scale north of 15°N and south of 15°S = 1000 gamm/inch; from values retrieved at approximately 1 mile spacing and regional field removed using the 1975 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

* NO SUBBOTTOM PROFILER DATA COLLECTED



INDOMED EXPEDITION LEG 12

Chief Scientist: Wolfgang Berger (SIO)

Ports: San Juan, Puerto Rico to Montevideo, Uruguay

Dates: 28 September to 1 November 1978

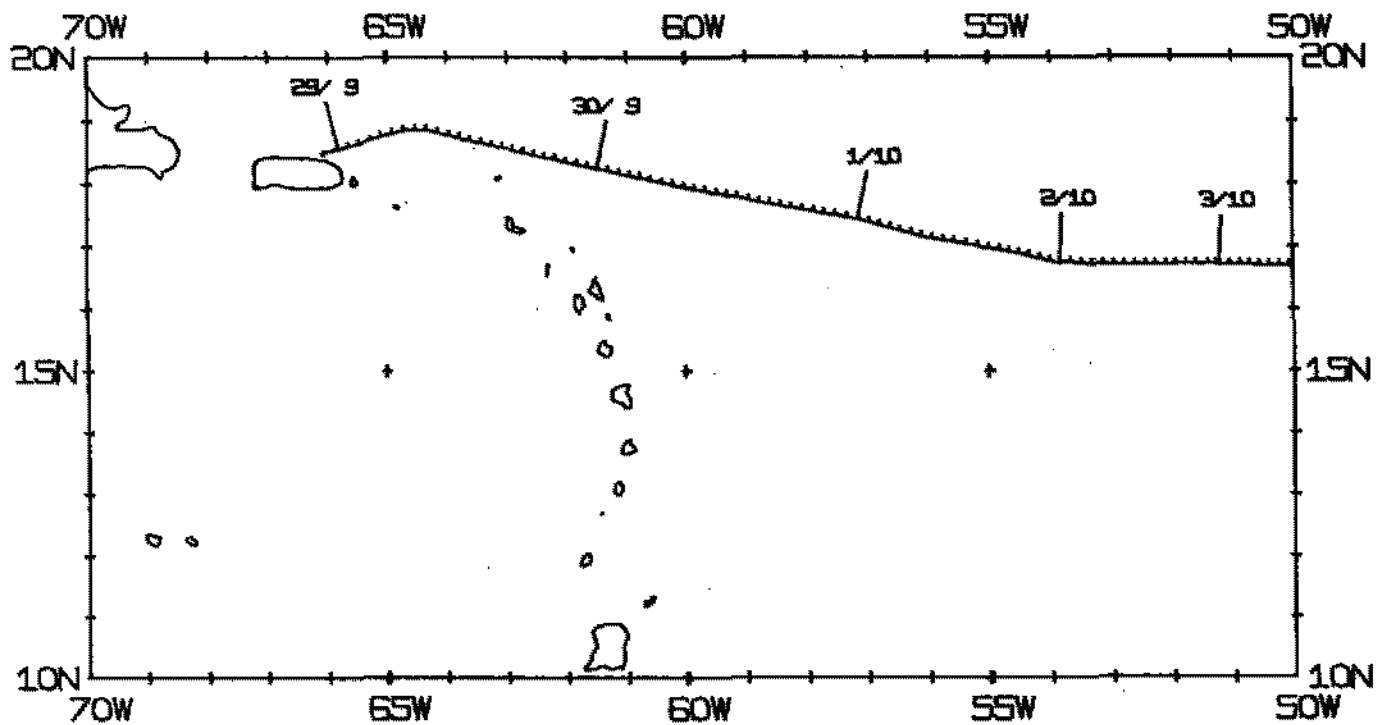
Ship: R/V Melville

TOTAL MILEAGE

- 1) Cruise - 6911 miles
- 2) Bathymetry - 6760 miles
- 3) Magnetics - 6111 miles
- 4) Seismic Reflection - none collected
- 5) Gravity - none collected

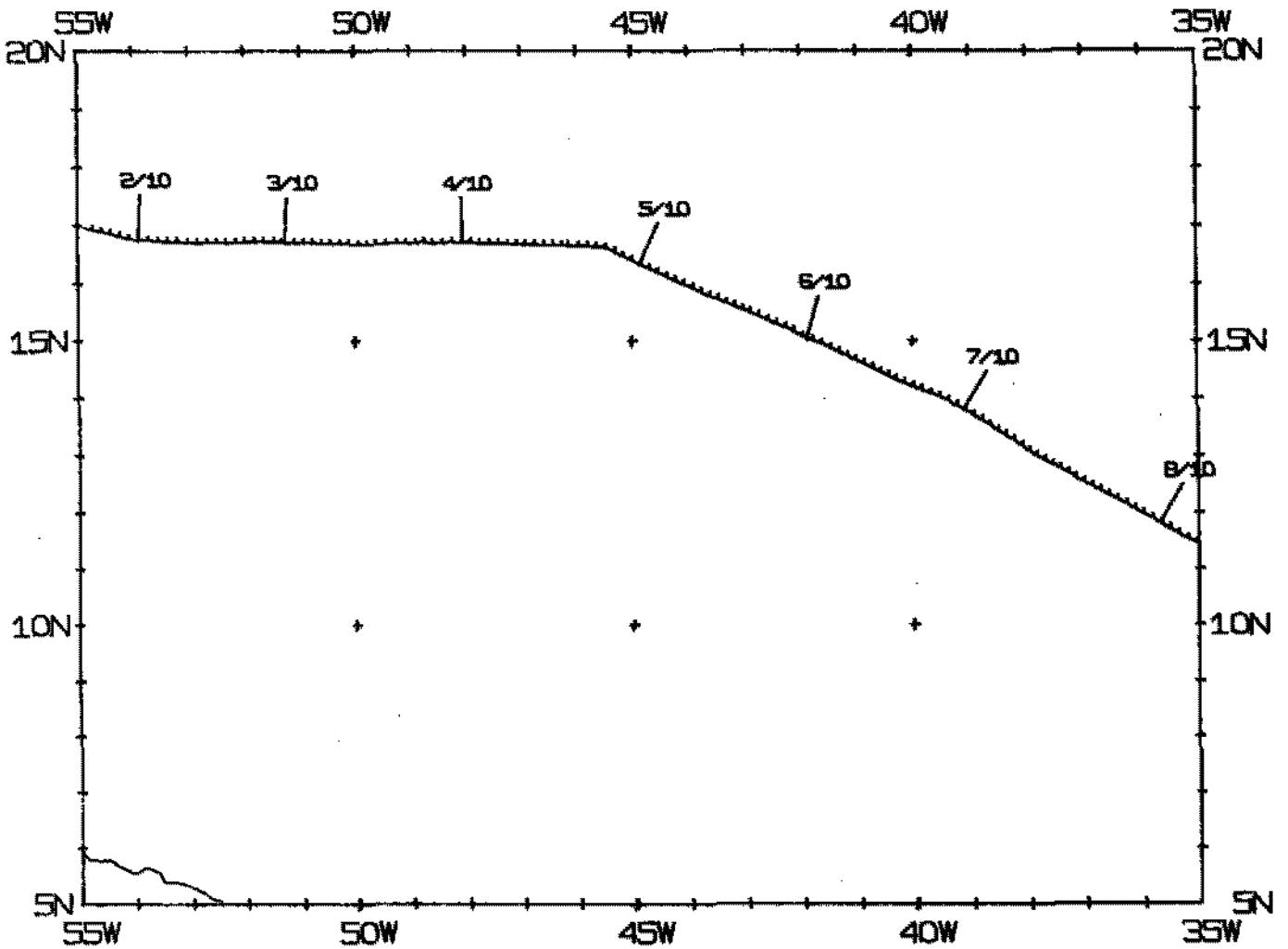
INMD12MV TRACK PLOT (1 OF 7)

MERCATOR PROJECTION, SCALE= 0.312 IN/DEG LONGITUDE



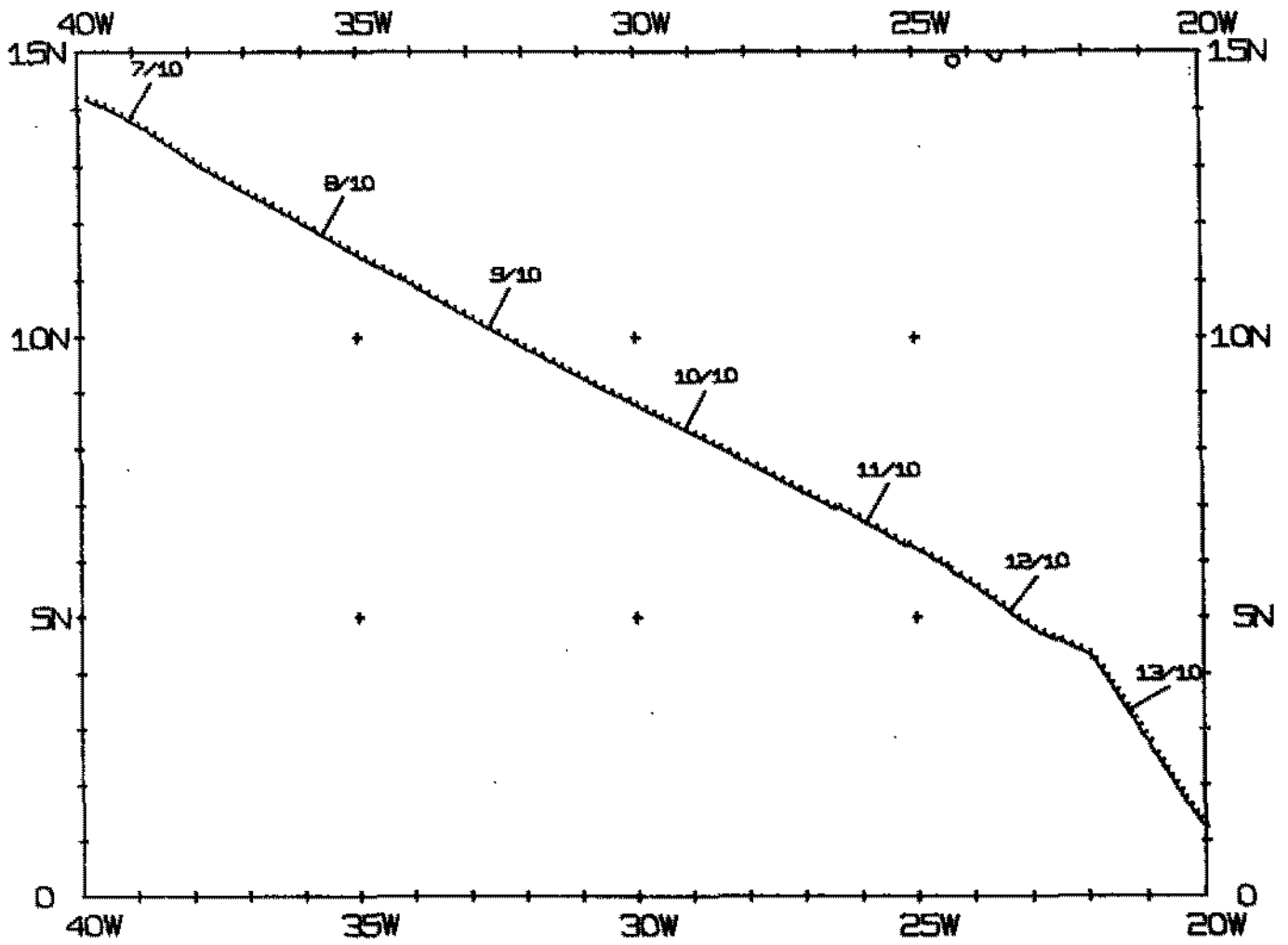
INMD12MV TRACK PLOT (2 OF 7)

MERCATOR PROJECTION, SCALE= 0.312 IN/DEG LONGITUDE



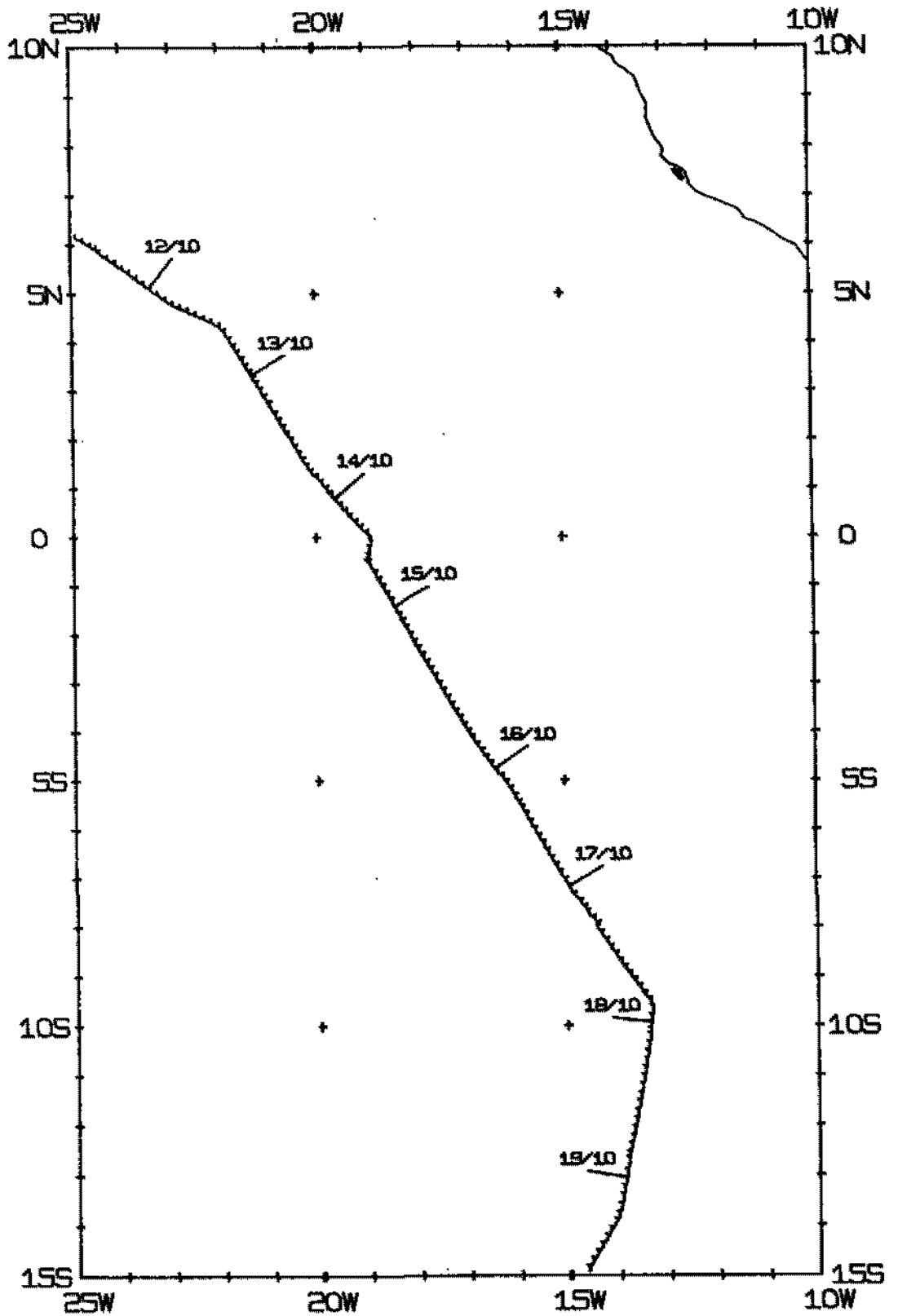
INMD12MV TRACK PLOT (3 OF 7)

MERCATOR PROJECTION, SCALE= 0.312 IN/DEG LONGITUDE



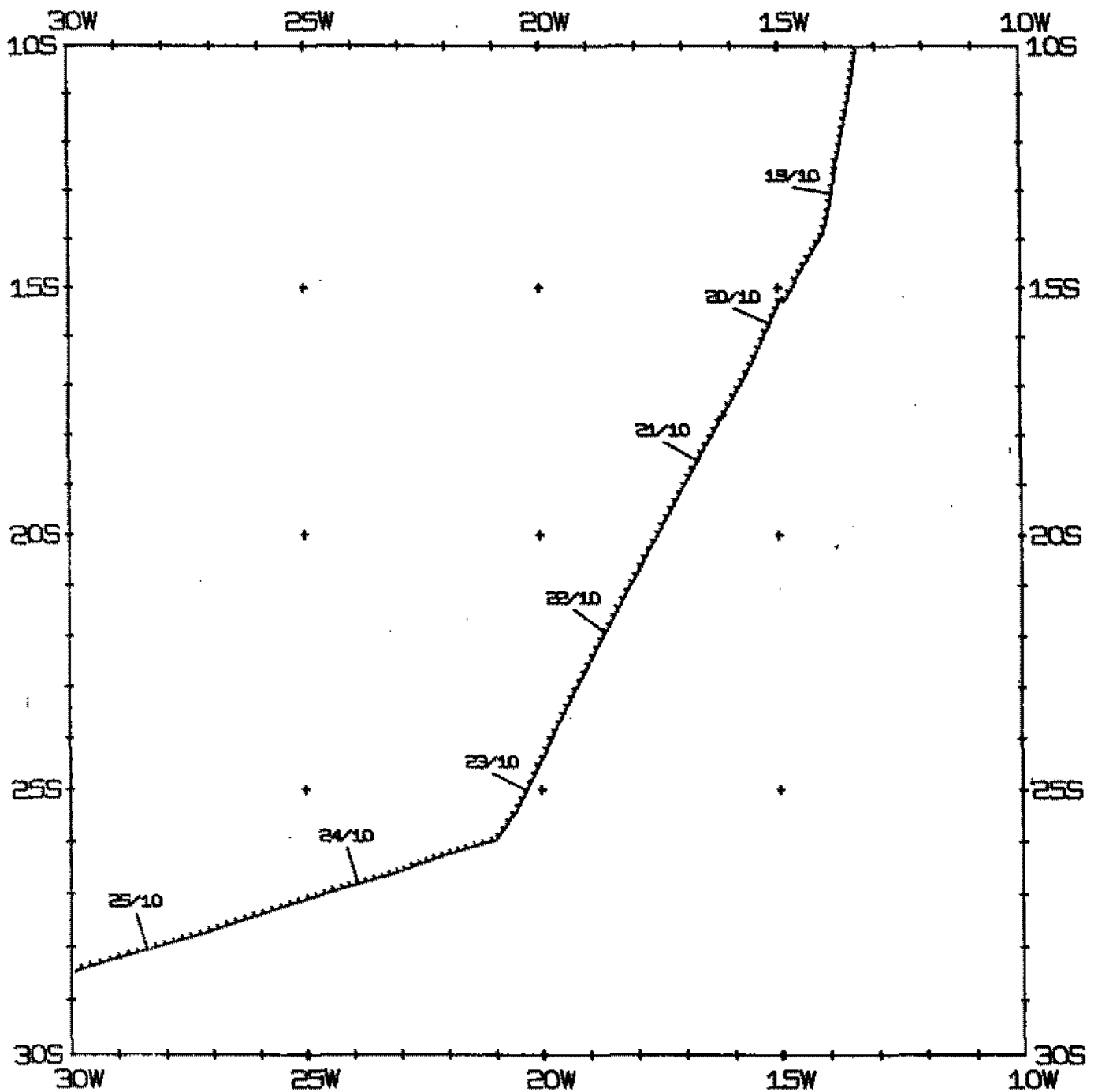
INM012MV TRACK PLOT (4 OF 7)

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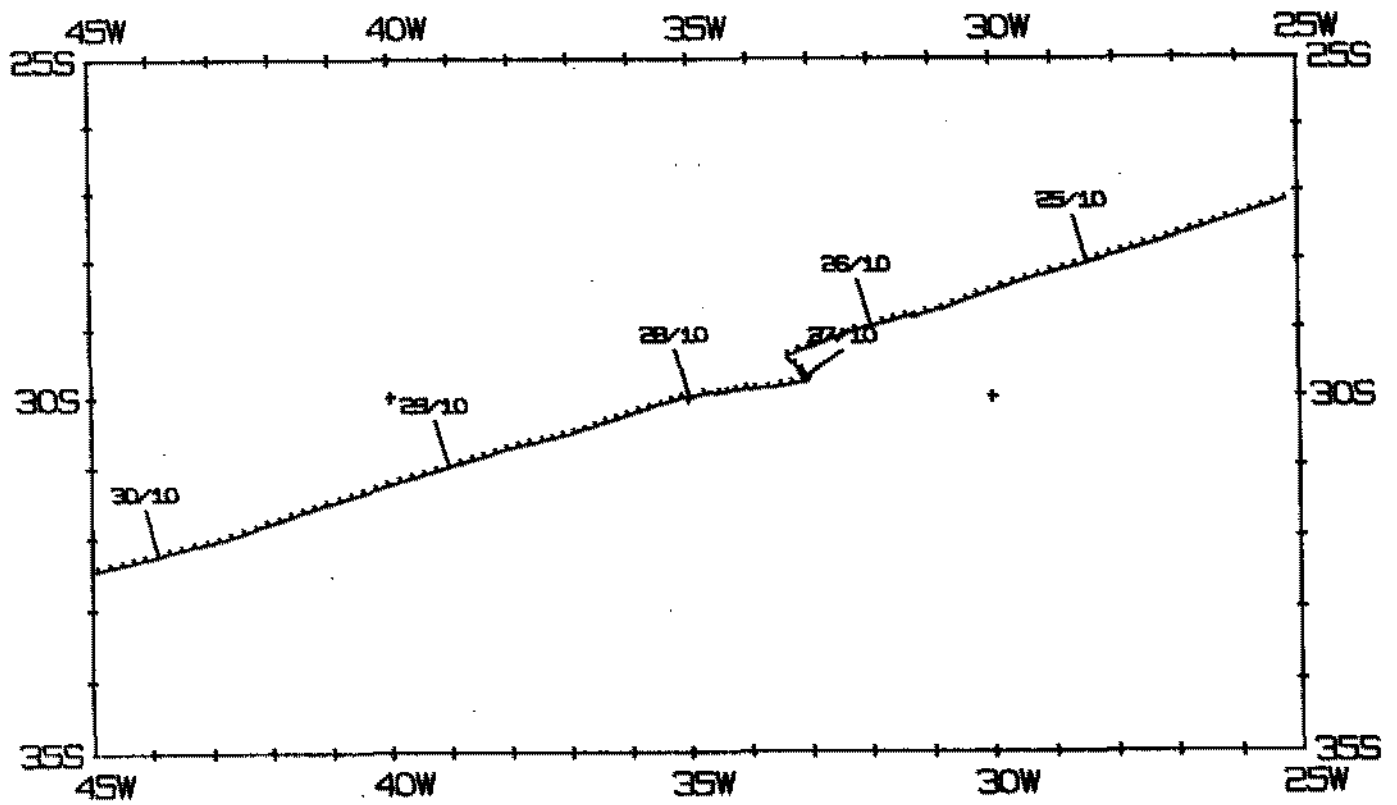
INM012MV TRACK PLOT (5 OF 7)

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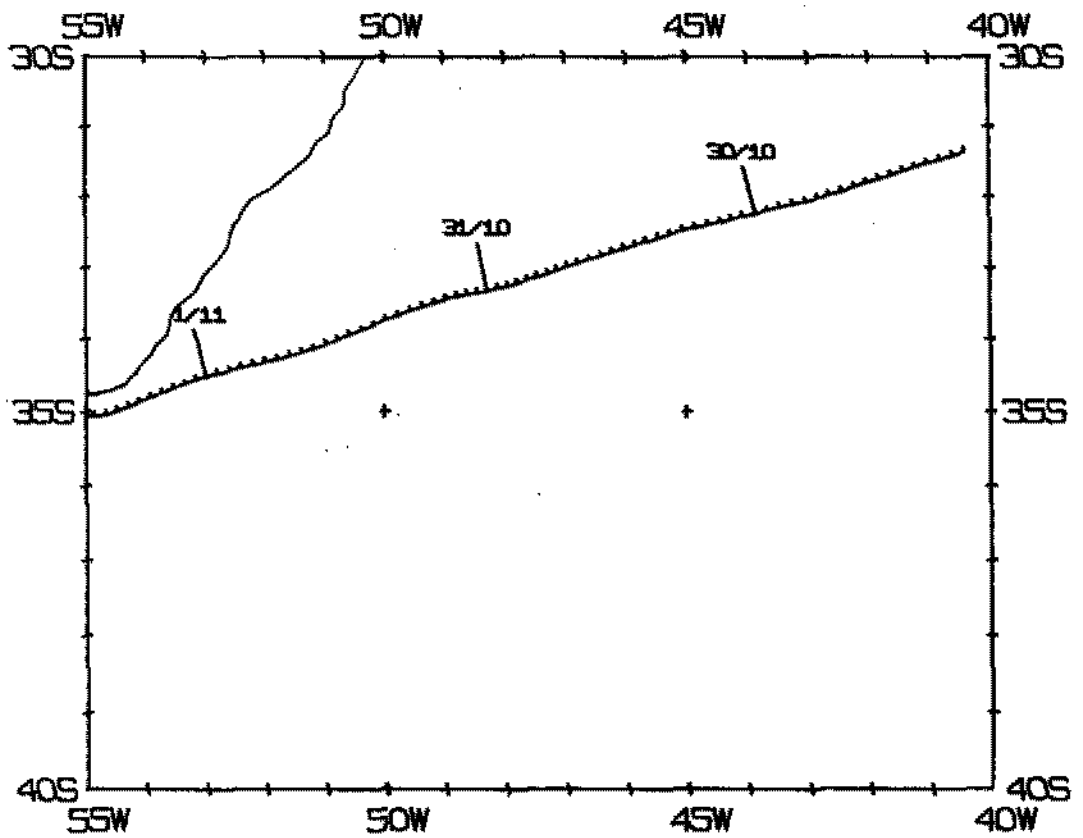
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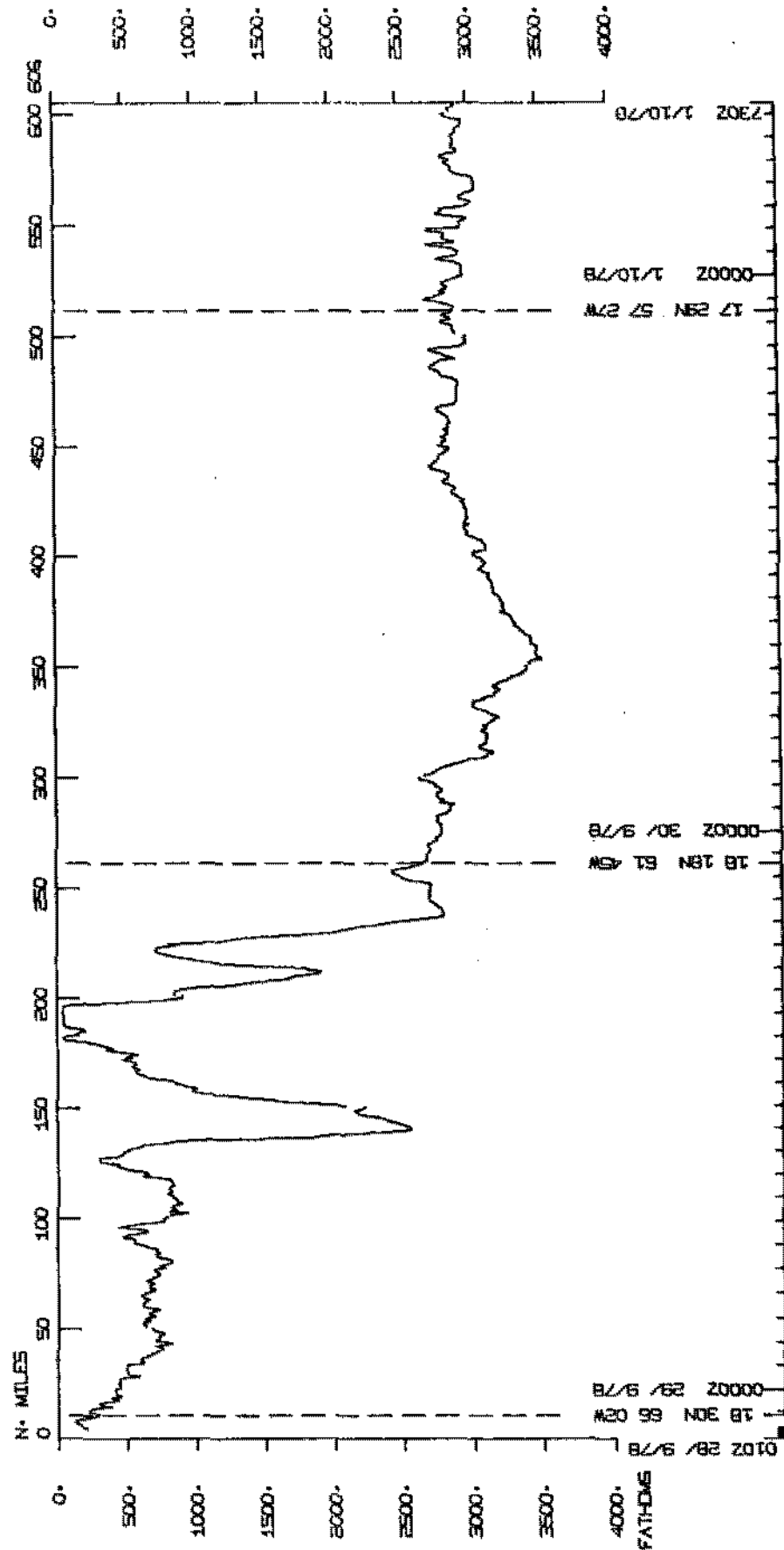
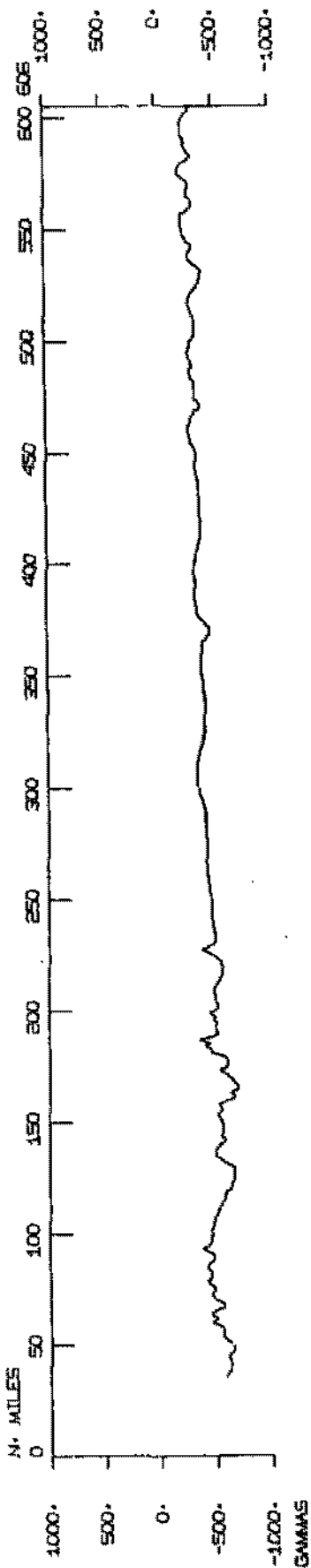


INMD12MV TRACK PLOT (7 OF 7)

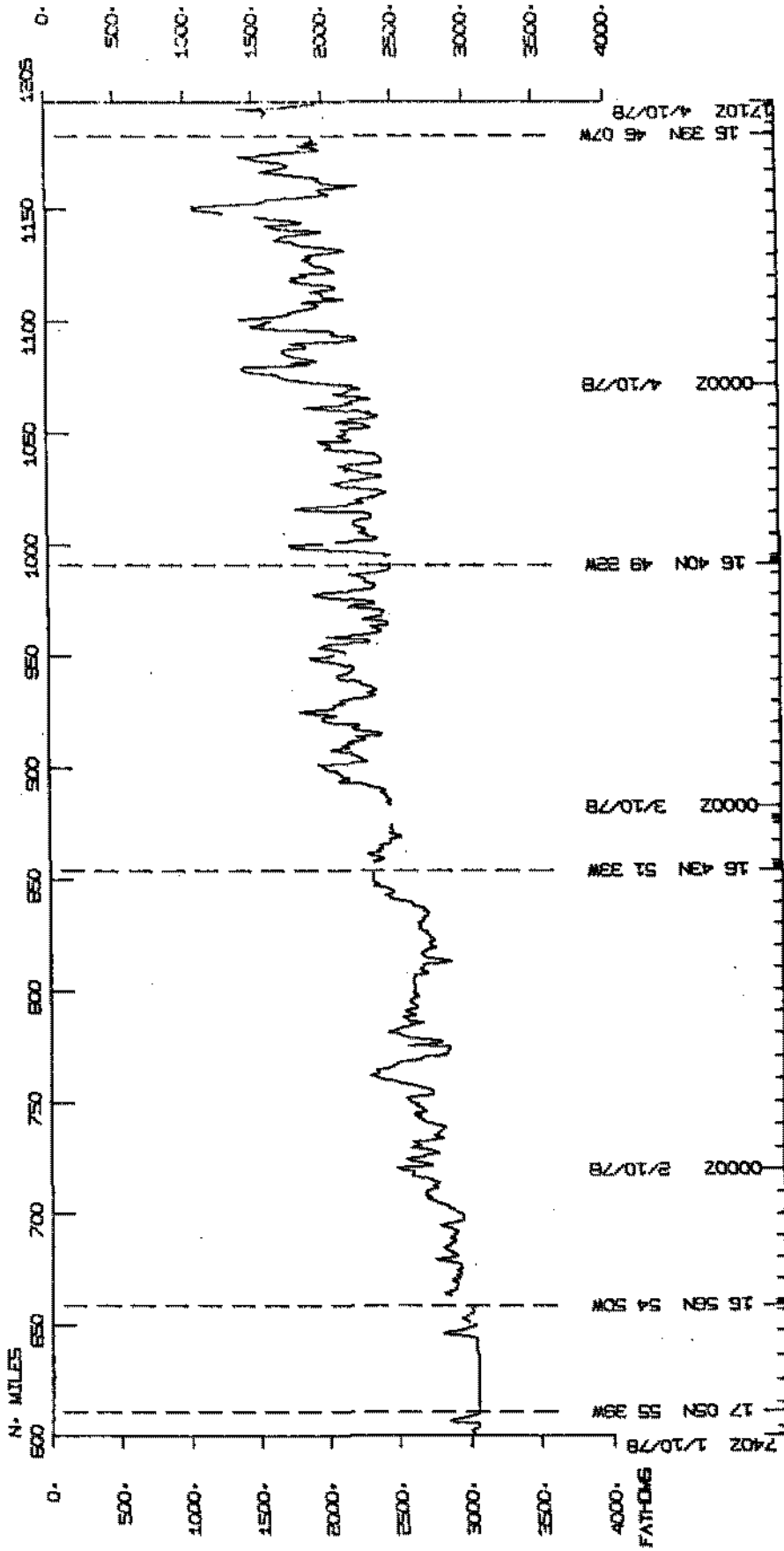
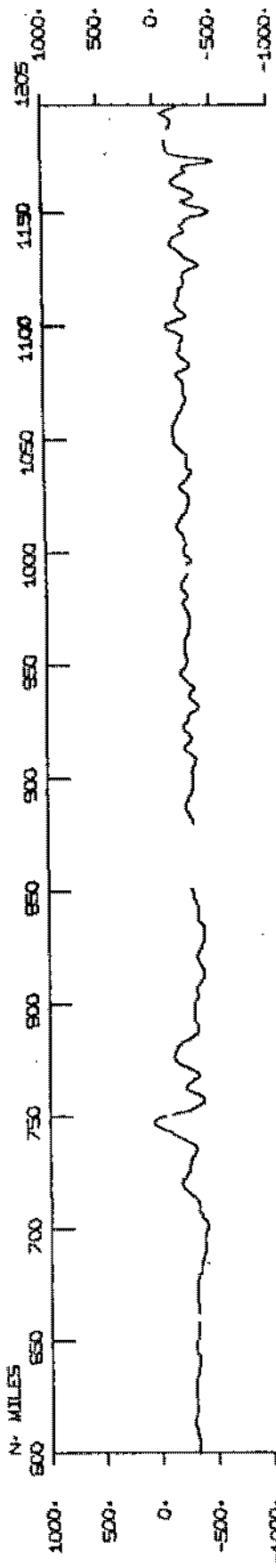
MERCATOR PROJECTION, SCALE= 0.312 IN/DEG LONGITUDE



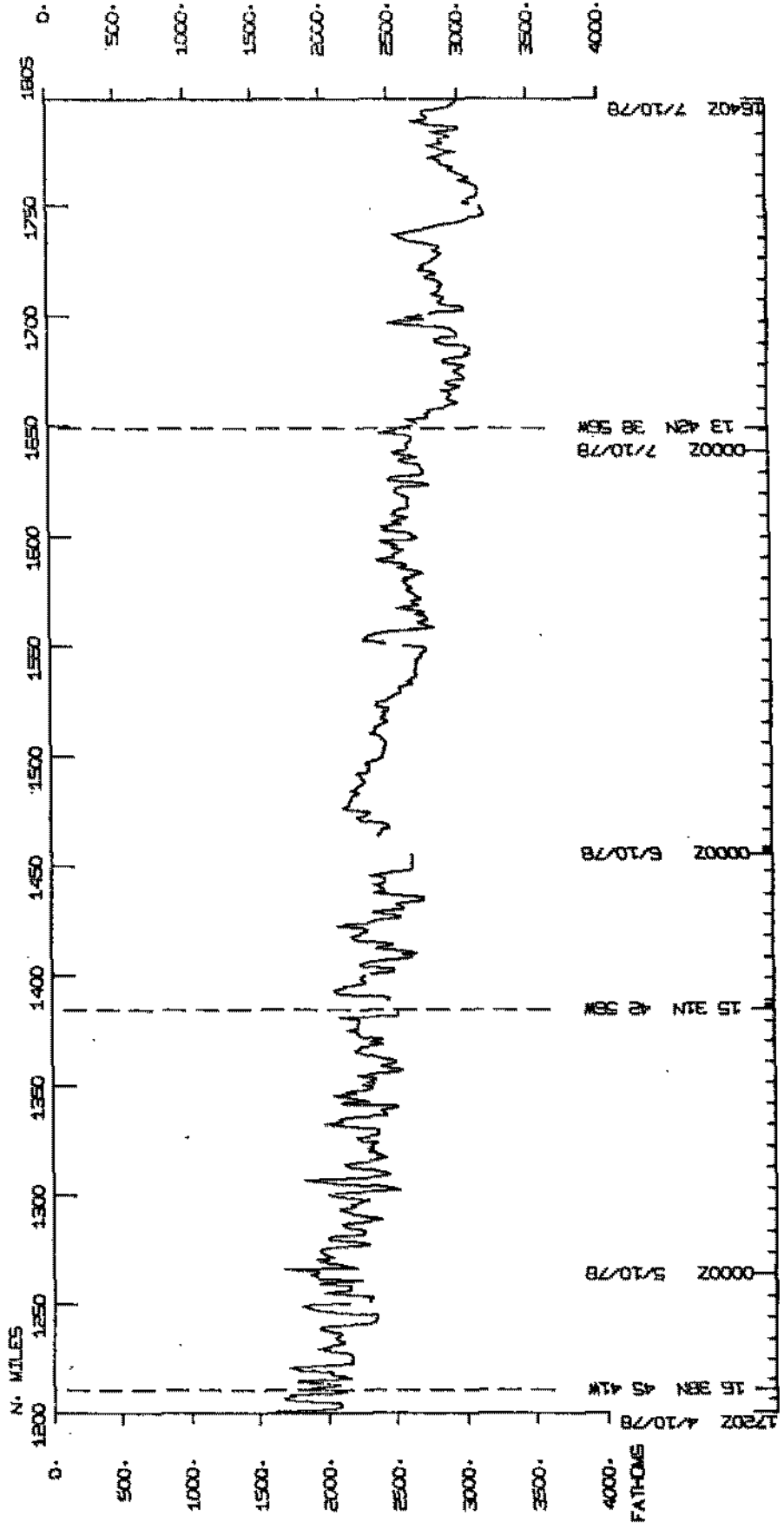
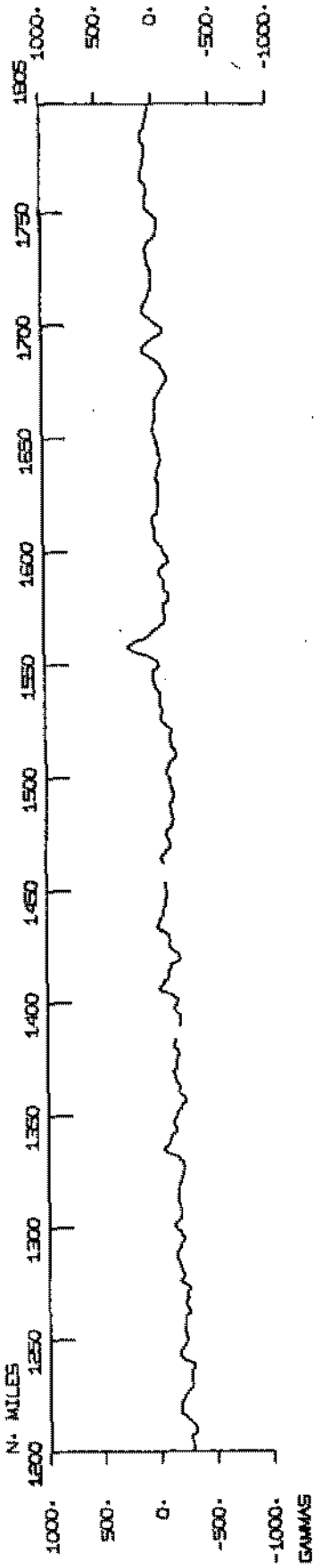
INDOMED LEG 12



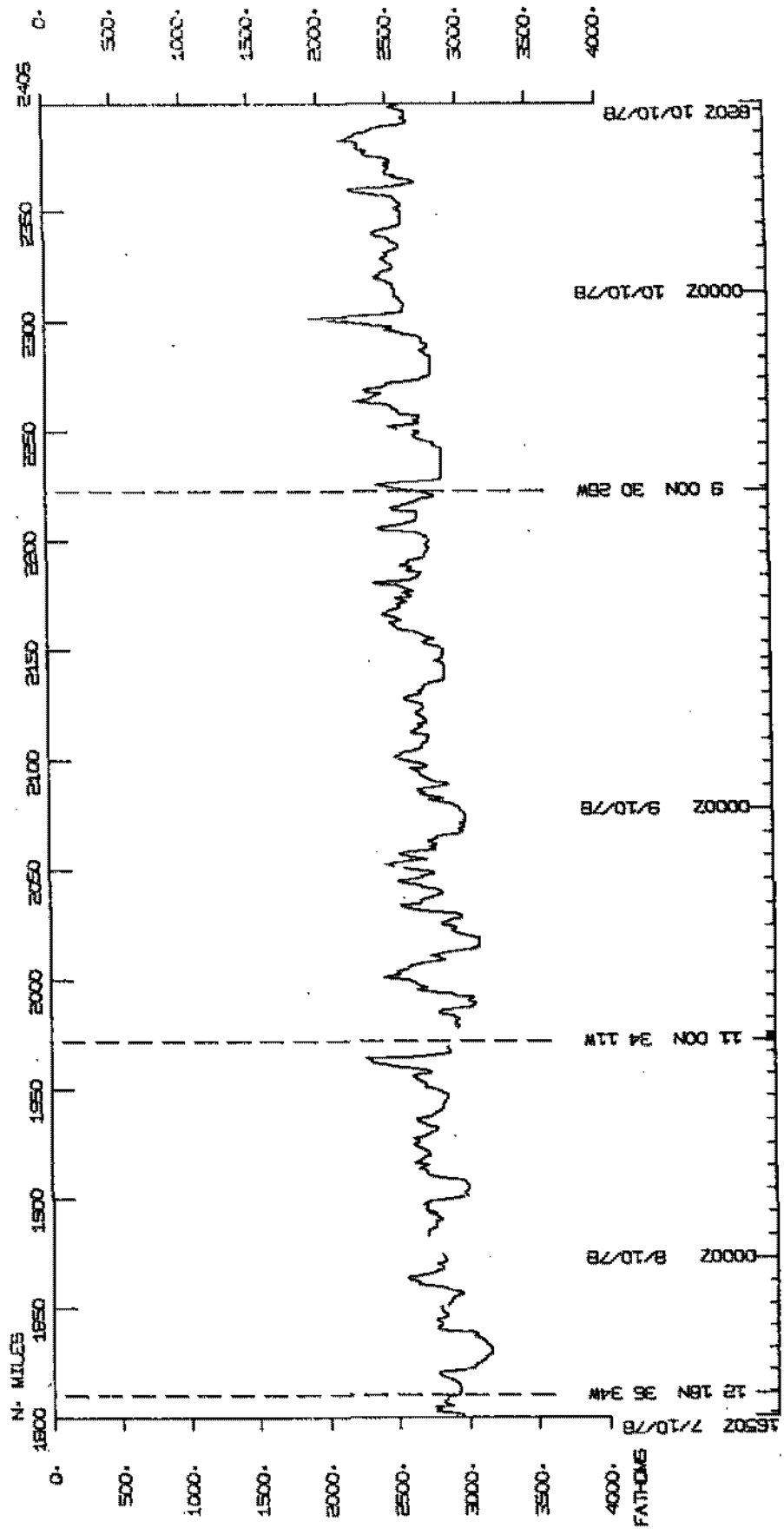
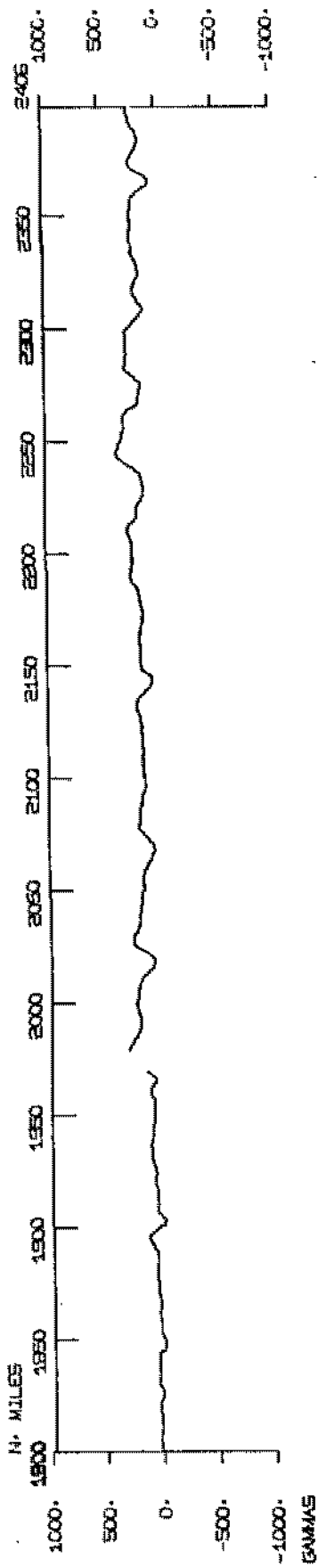
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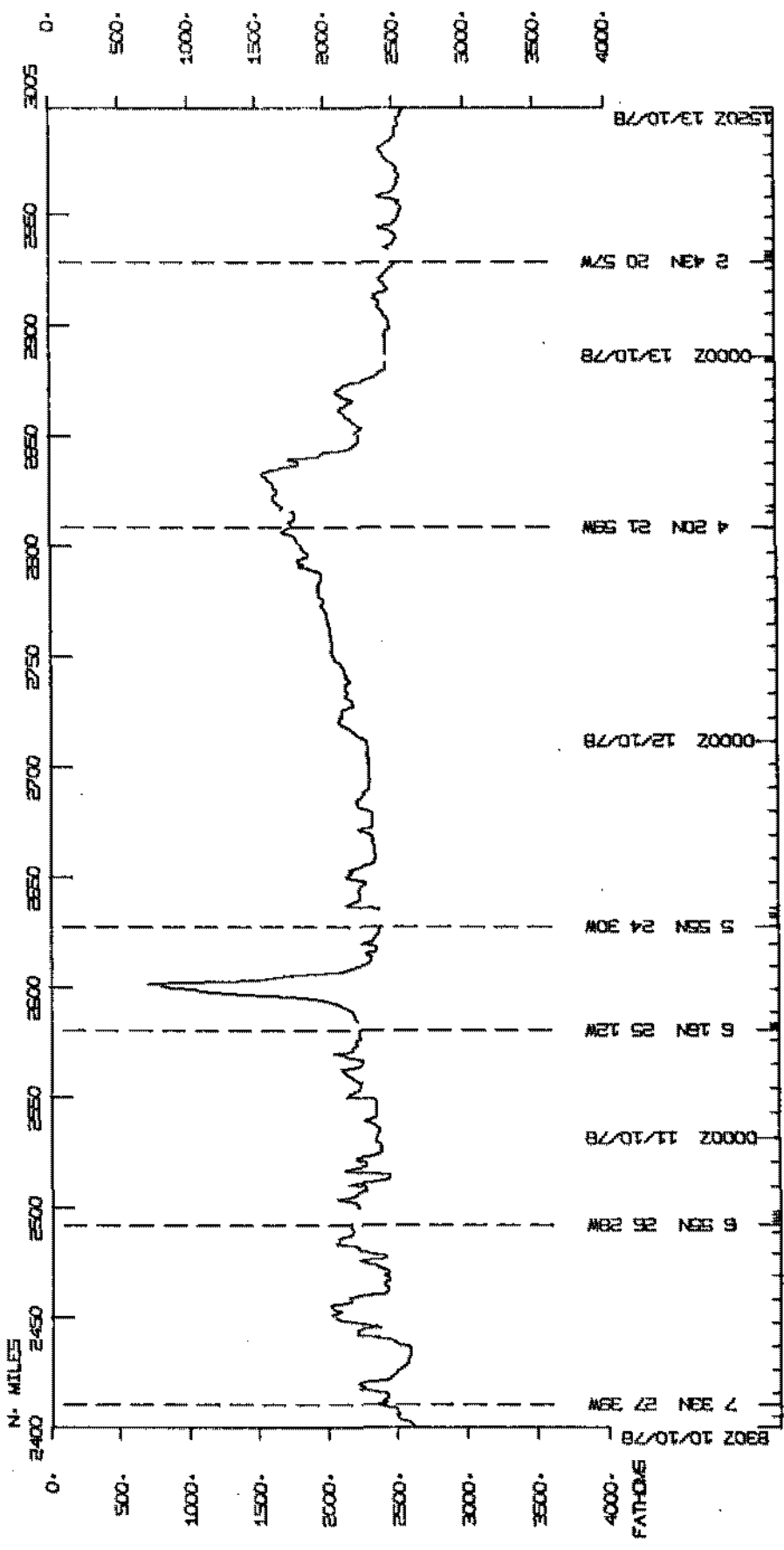
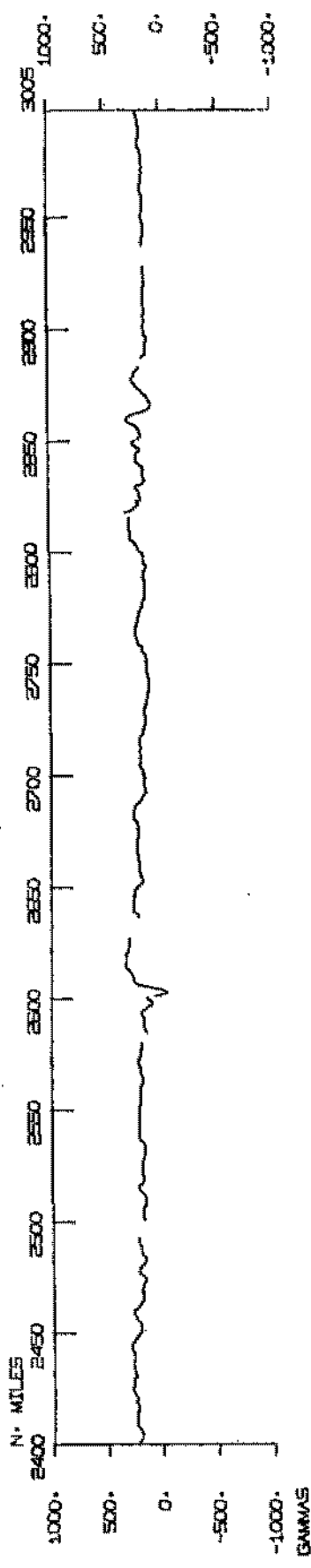
INDOMED LEG 22



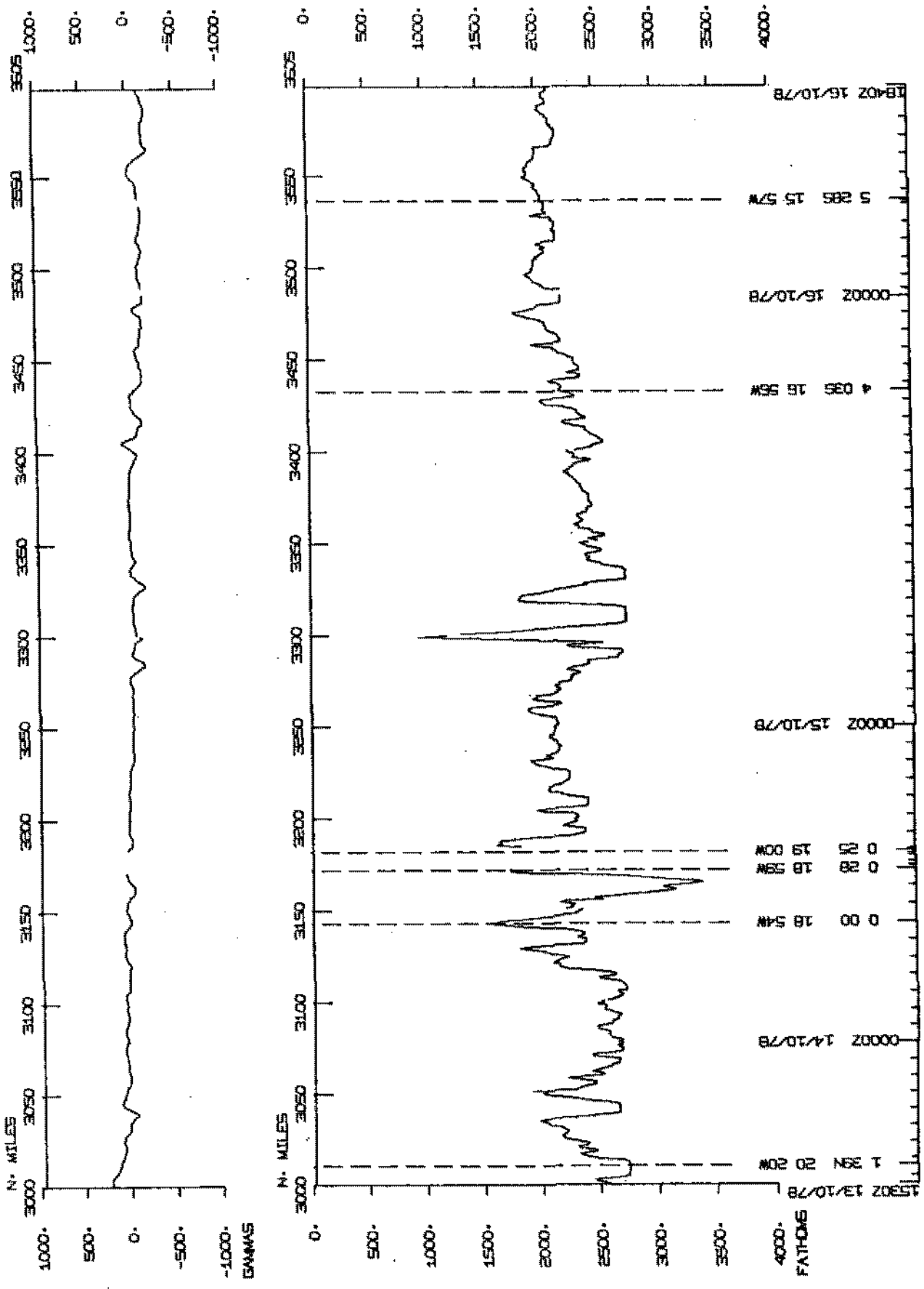
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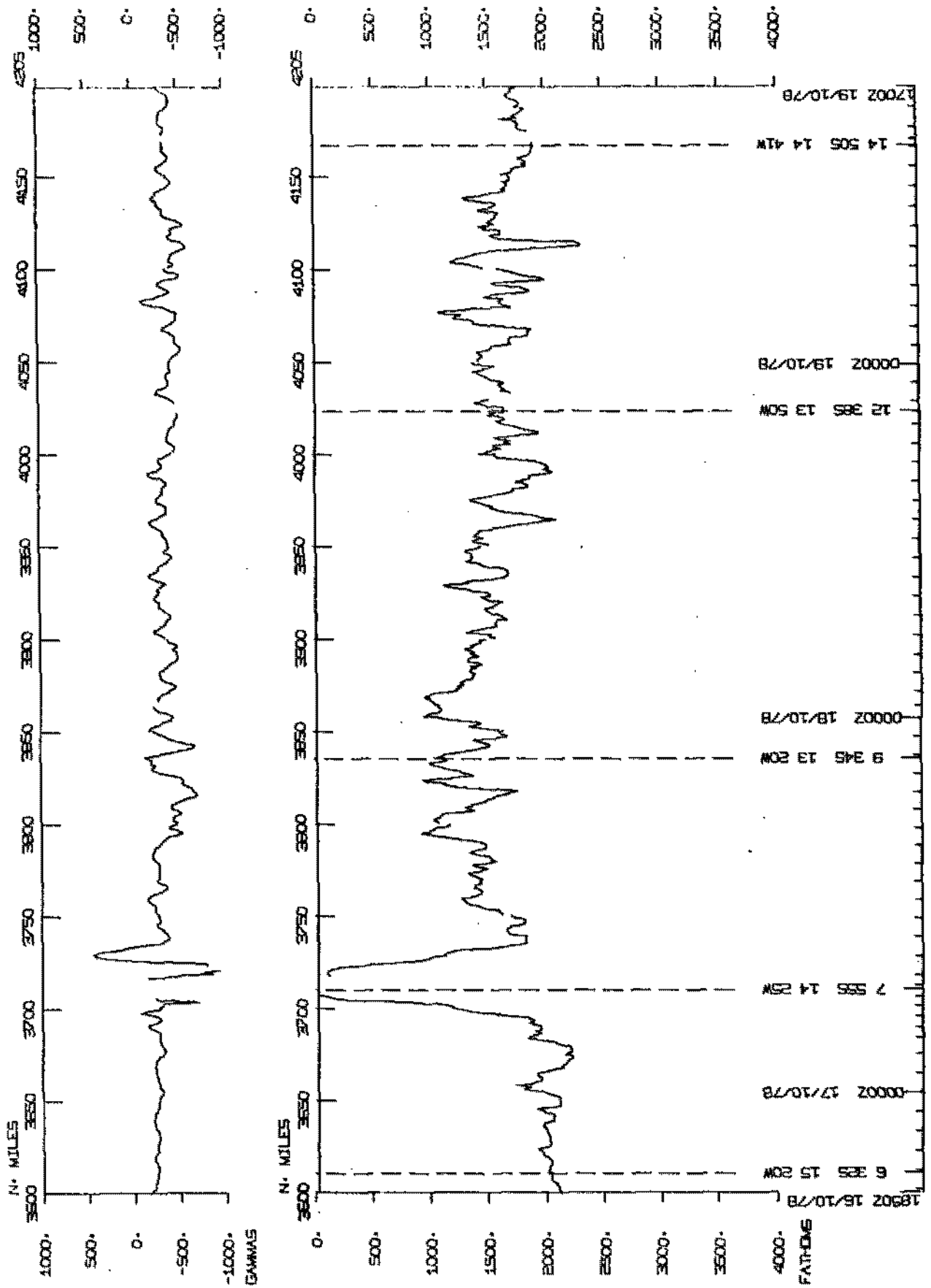
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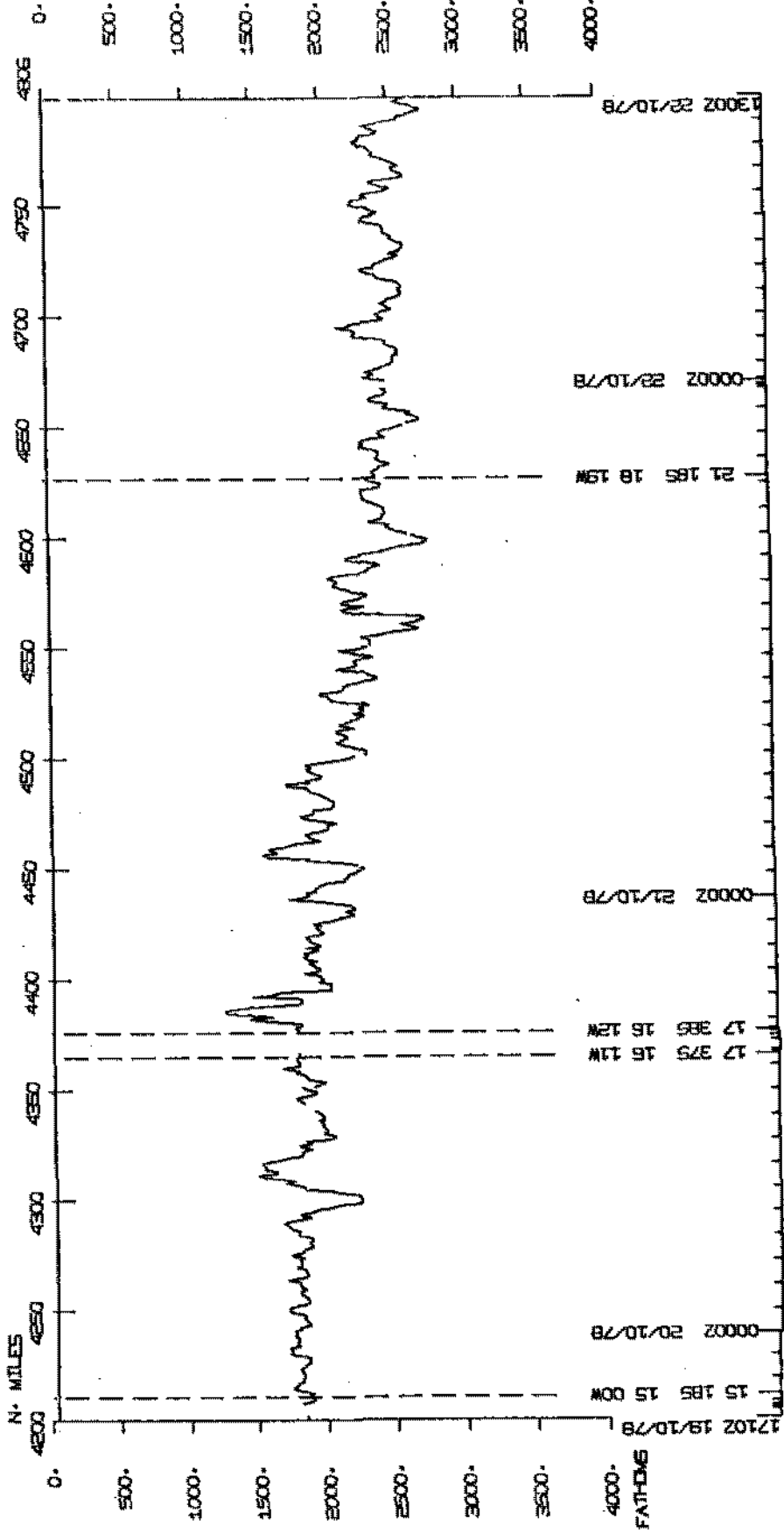
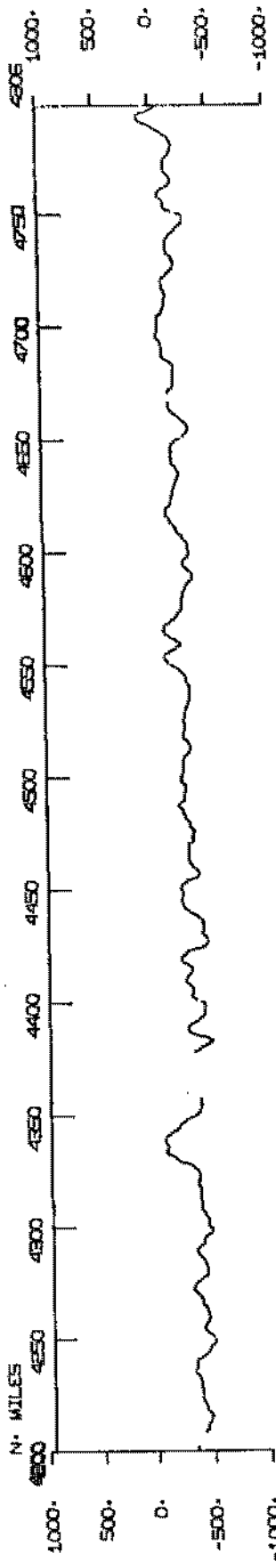
INDOMED LEG 12



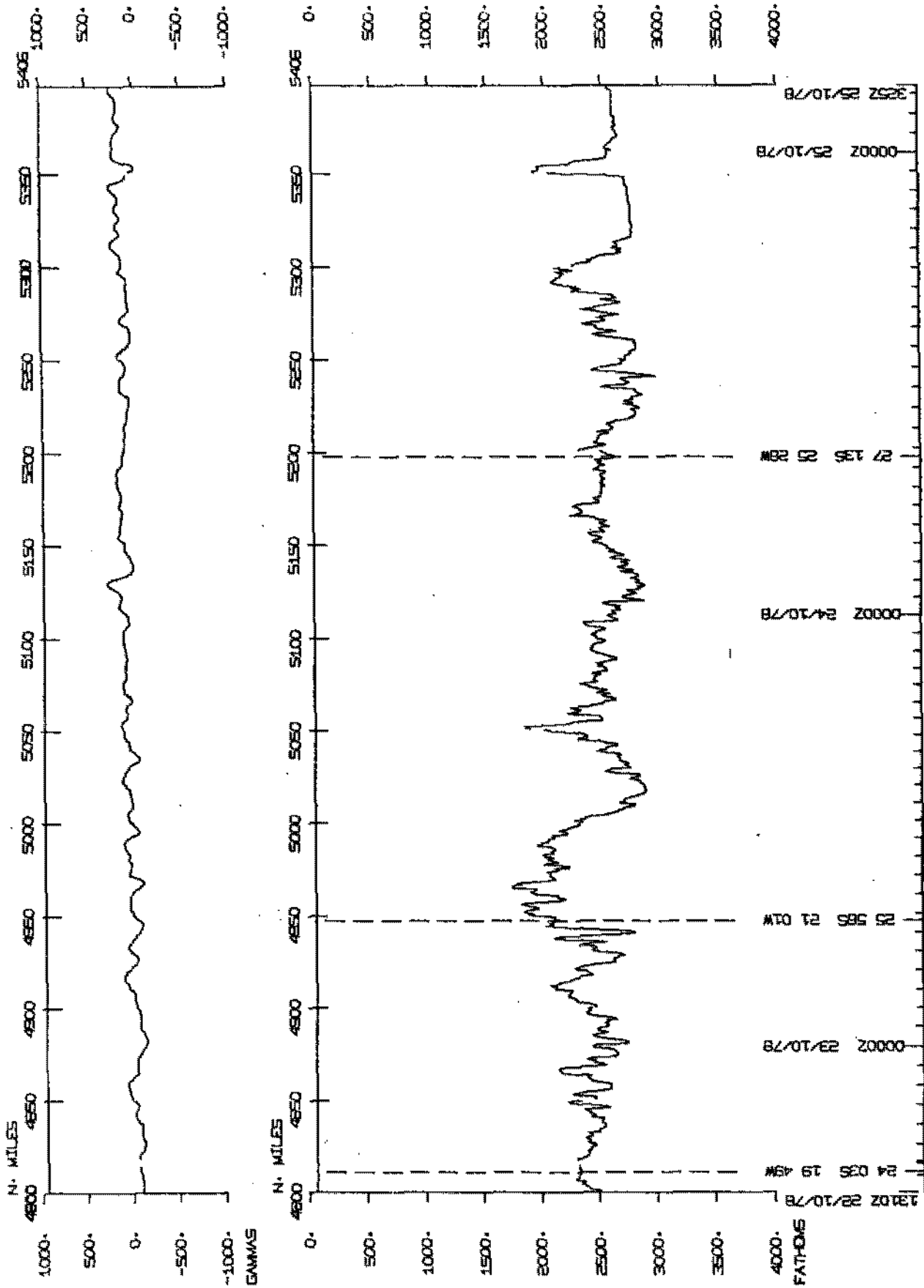
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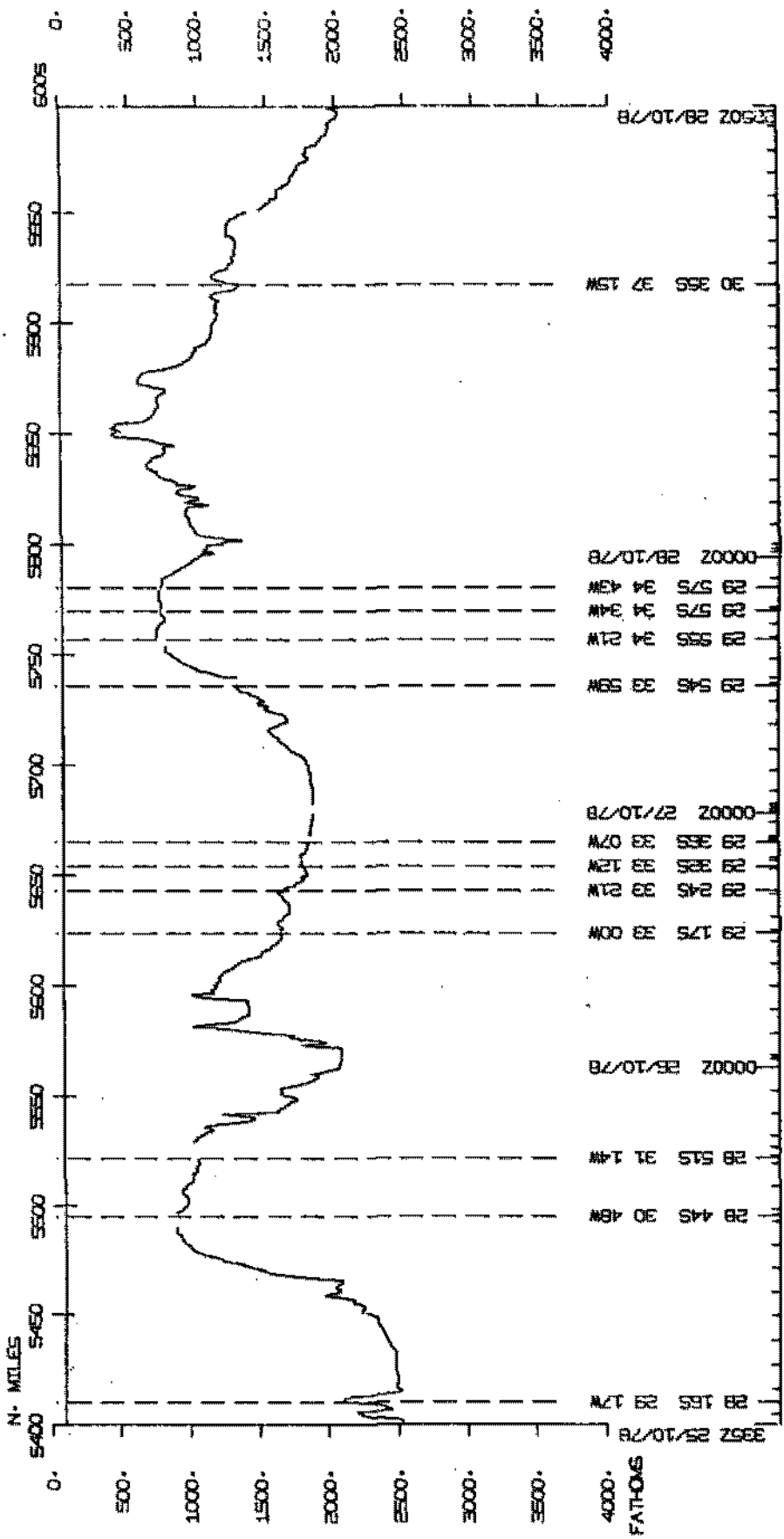
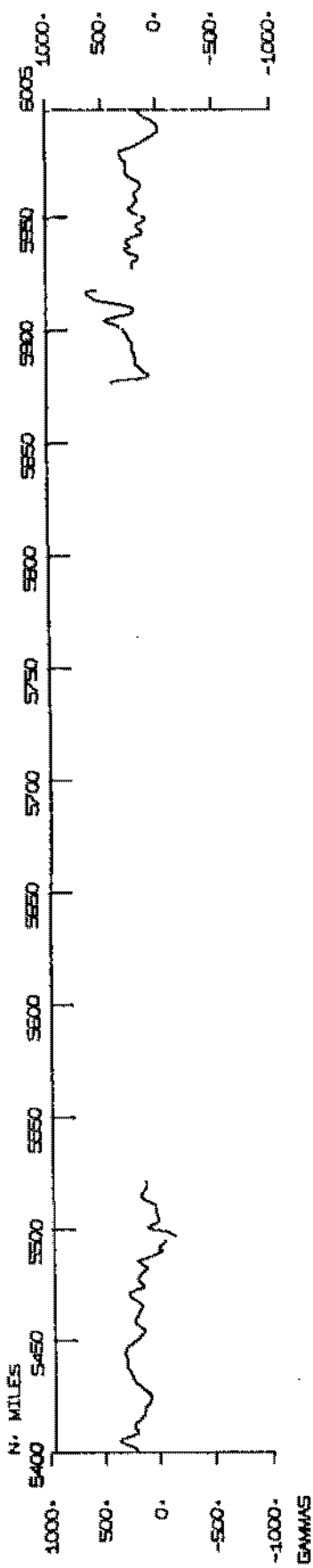
INDOMED LEG 12



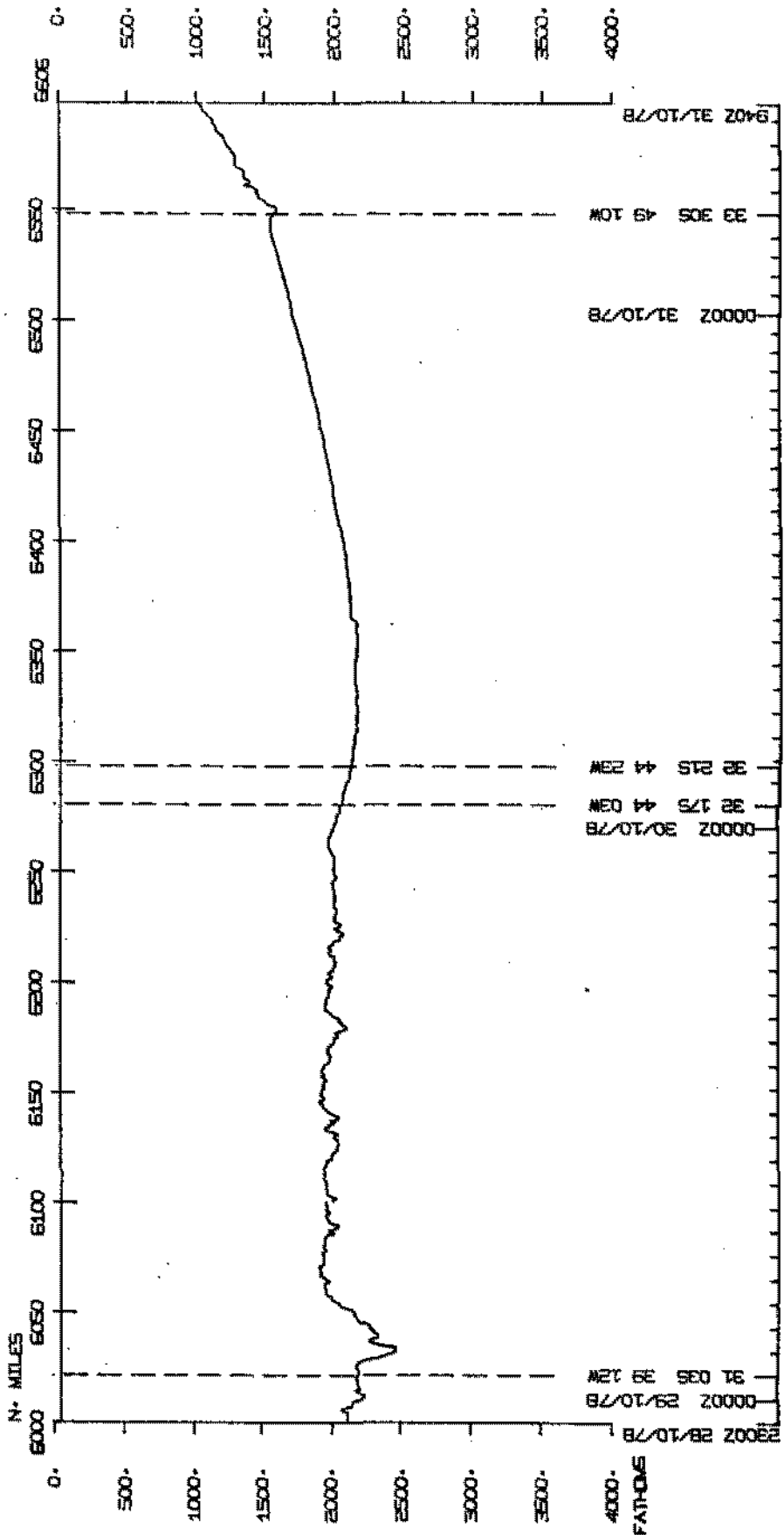
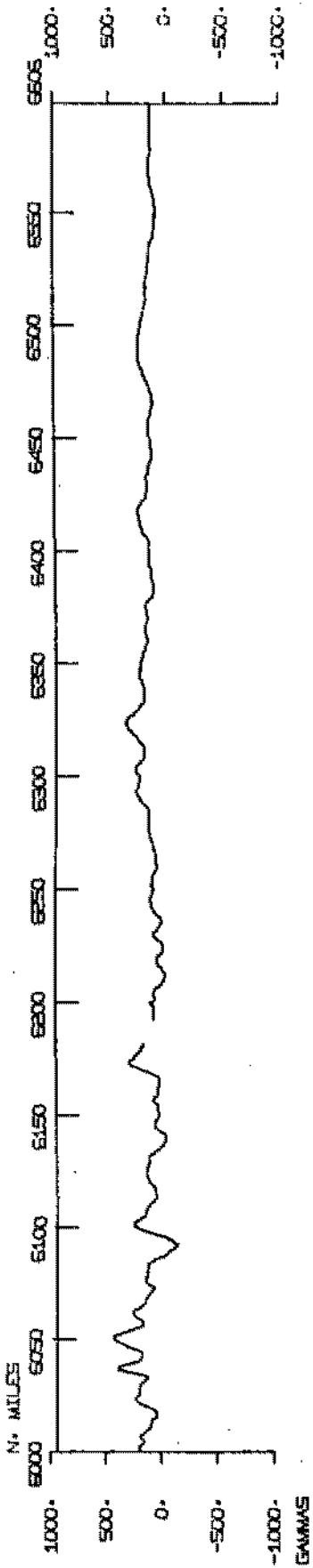
INDOMED LEG 12



INDOMED LEG 12

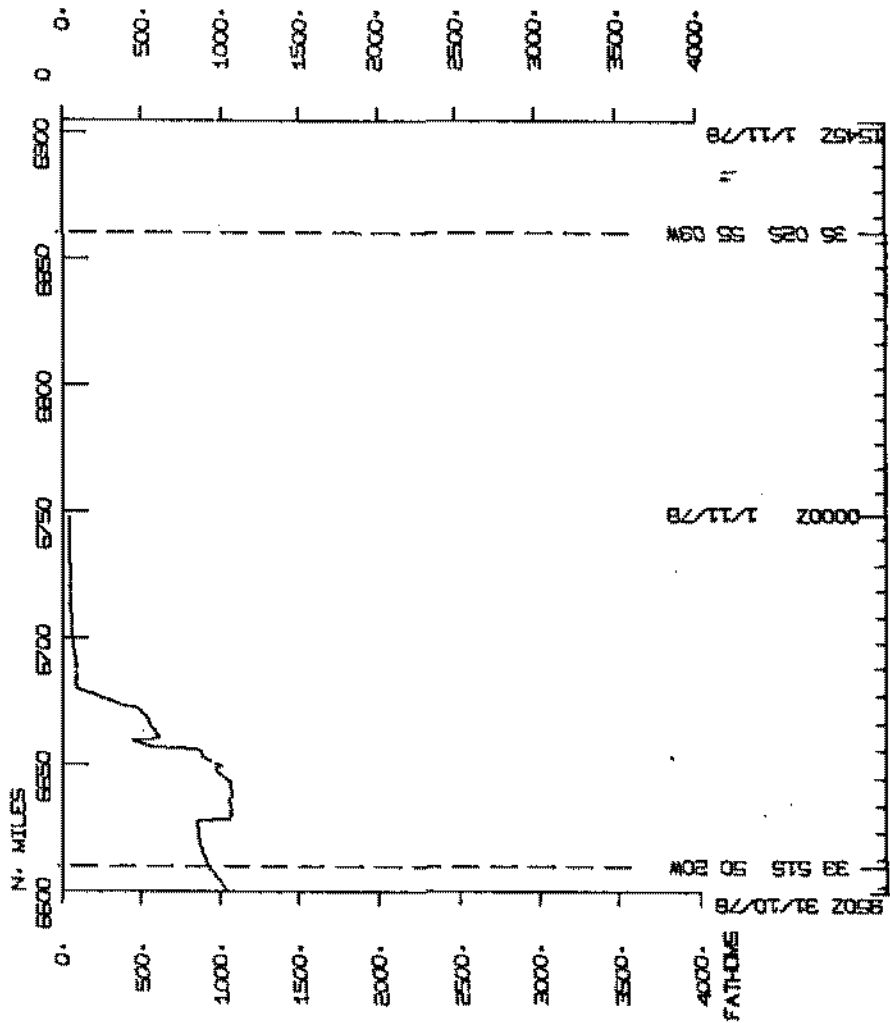
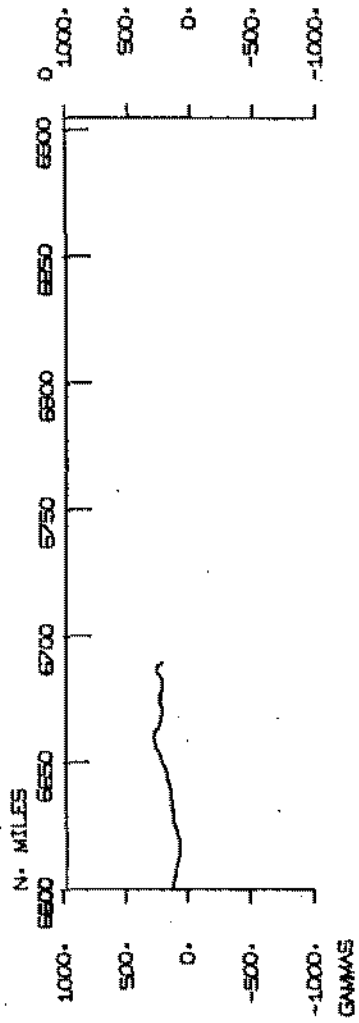


INDOMED LEG 12



2900Z 28/10/78
 0000Z 29/10/78
 31 035 38 12W
 0000Z 30/10/78
 32 175 44 03W
 32 215 44 25W
 0000Z 31/10/78
 33 305 49 10W
 090Z 31/10/78

INDOMED LEG 12



S.I.O. SAMPLE INDEX

(Issued January 1979)

INDOMED EXPEDITION

LEG 12

San Juan, Puerto Rico (28 September 1978)
to
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R/V Melville

Chief Scientist - Wolfgang Berger (SIO)

Resident Marine Tech - Sharon Witherow

Post-Cruise Processing and Report Preparation
by S.I.O. Geological Data Center

Index Encoding Funded by NSF
Grant Number OCE76-80618
Index Processing and Report Preparation
Funded in part by SIA

The Sample Index is a first level interdisciplinary listing of time, position, sample identification and disposition of all samples, records and measurements collected on this cruise leg. The index data are encoded at sea by the Resident Technician and processed on shore by the S.I.O. Geological Data Center shortly after the completion of the cruise leg.

Positions are interpolated on the basis of sample time by comparison to a single, edited navigation file. Samples beginning at one time and position and ending at another are entered on two consecutive cards. Disposition and sample type are represented by three and four character codes to permit future computer searches on these parameters. (Listings defining these codes are available from the Geological Data Center.)

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NUMBER OF SAMPLES OF CLASS 'TYPE' GOING TO DESTINATION 'DISP'

DISP	TYPE								TOTAL
	CA	CU	DP	LB	MG	PE	SN		
GCR	1	42						1	42
GDC	1		3	1	3			1	7
GRD	1					4		1	4
LDO	1					1	20	1	21
MTG	1					2		1	2
SDU	1					1		1	1
SIX	1					1		1	1
UMN	1					2		1	2
UTH	1					3		1	3
VOL	1					2		1	2
WHB	1	1						1	2
TOTAL	1	1	42	3	1	3	16	21	87

SAMPLE 'TYPE' CODES USED ABOVE

- CA = CAMERA
- CU = CORE
- DP = DEPTH
- LB = LOG BOOKS
- MG = MAGNETICS (TOWED VEHICLE, SURFACE, TOTAL FIELD)
- PE = PERSONNEL IN SCIENTIFIC PARTY
- SN = SURFACE NET

SAMPLE 'DISP' CODES USED ABOVE

- GCR = GEOLOGICAL CURATING FACILITY -- W. RIEDEL, (EXT. 4386)
- GDC = GEOLOGICAL DATA CENTER -- S. SMITH (EXT. 2752)
- GRD = GEOLOGICAL RESEARCH DIVISION (EXT. 3360)
- LDO = LAMONT-DIHKERTY GEOPHYSICAL OBSERVATORY, COLUMBIA UNIVERSITY
- MTG = MARINE TECHNOLOGY GROUP (EXT 4194)
- SDU = SAN DIEGO STATE UNIVERSITY (REF. TO CSS)
- SIX = SCRIPPS INSTITUTION NON-EMPLOYEE - (CONTACT DORCAS UTTER EXT. 2356)
- UMN = UNIVERSITY OF MINNESOTA, MINNEAPOLIS
- WHB = W. H. BERGER, GRD (EXT. 2750)

GMT D /M /Y TIME DATE	LOC LDC TIME TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
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INMD12MV SAMPLE INDEX

INMD12MV

*** PORTS ***

2200 28/ 9/78		LGPT B	SAN JUAN, PUER, RICO	18 28.ON	66 07. W	F	INMD12MV
1630 1/11/78		LGPT E	MONTEVIDEO, URUGUAY	35 54. S	56 13. W	F	INMD12MV

PERSONNEL

*** NAME ***	*** TITLE ***	*** AFFILIATION ***
1 BERGER, W. DR.	ASSOC. PROF	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
2 JOHNSON, T. DR.	ASST. PROF.	UNIVERSITY OF MINNESOTA, MINNEAPOLIS
3 SHULL, C. DR.	PROFESSOR	SAN DIEGO STATE UNIVERKITY (REF. TO CSS)
4 EKDALE, T. DR.	ASST. PROF.	SCRIPPS INSTITUTION NON-EMPLOYEE -(CONTACT DORCAS UTTER EXT. 2356)
5 FEAZEL, C. DR.	RES. GEOLOGIST	SCRIPPS INSTITUTION NON-EMPLOYEE -(CONTACT DORCAS UTTER EXT. 2356)
6 BICKEL, J. L.	GRAD. STUDENT	UNIVERSITY OF MINNESOTA, MINNEAPDLIS
7 LAFLAMME, R.	VOLUNTEER	SCRIPPS INSTITUTION NON-EMPLOYEE -(CONTACT DORCAS UTTER EXT. 2356)
8 HALVEN, D.	STUDENT	LAMONT-DOHERTY GEOPHYSICAL OBSERVATORY, COLUMBIA UNIVERSITY
9 MULLER, L.	GRAD. STUD.	SCRIPPS INSTITUTION NON-EMPLOYEE -(CONTACT DORCAS UTTER EXT. 2356)
10 OTT, J.	COMPUTER TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
11 RIPLEY, D.	STAFF RES. ASSOC.	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
12 SACHS, N.	VOLUNTEER	SCRIPPS INSTITUTION NON-EMPLOYEE -(CONTACT DORCAS UTTER EXT. 2356)
13 VAN WUY, F.	STAFF RES. ASSOC.	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
14 WALKER, S.	STUDENT	SCRIPPS INSTITUTION NON-EMPLOYEE -(CONTACT DORCAS UTTER EXT. 2356)
15 WALSH, T.	MUSEUM CURATOR	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
16 WITHEROW, S.	RESIDENT TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093

*** NOTE *** AN 'X' IN THE (B)EGIN/(E)ND COLUMN FOLLOWING THE SAMPLE CODE INDICATES NO SAMPLE OR DATA RECOVERED

GMT D /M /Y	LOC LOC	CODE	SAMPLE IDENT.	CODE	LAT.	LONG.	LEG-SHIP
TIME DATE	TIME TZ	SAMP		DISP			CRUISE

UNDERWAY DATA CURATOR - STUART M. SMITH (EXT.2752)

*** LOG BOOKS ***

2225 28/ 9/78		LRUW R	UNDERWAY LOG	GDC 18	29.3N	66 07.0W	S INMD12MV
0000 1/11/78		LBOW E	UNDERWAY LOG	GDC 34	31.2S	53 01.2W	S INMD12MV

*** FATHOGRAMS ***

2225 28/ 9/78		DPR3 R	E DR 3.5KHZ R-01	GDC 18	29.3N	66 07.0W	S INMD12MV
0048 8/10/78		DPR3 F	E DR 3.5KHZ R-01	GDC 11	43.9N	35 32.3W	S INMD12MV
0101 8/10/78		DPR3 R	E DR 3.5KHZ R-02	GDC 11	42.7N	35 30.3W	S INMD12MV
2340 24/10/78		DPR3 F	E DR 3.5KHZ R-02	GDC 28	02.0S	28 21.0W	S INMD12MV
2350 24/10/78		DPR3 R	E DR 3.5KHZ R-03	GDC 28	02.5S	28 22.9W	S INMD12MV
0000 1/11/78		OPR3 E	E DR 3.5KHZ R-03	GDC 34	31.2S	53 01.2W	S INMD12MV

*** MAGNETOMETER ***

0125 29/ 9/78		MGR R	MAGNETICS ROLL-01	GDC 18	37.3N	65 35.9W	S INMD12MV
0330 2/10/78		MGR E	MAGNETICS ROLL-01	GDC 16	43.6N	53 15.7W	S INMD12MV
0350 2/10/78		MGR R	MAGNETICS ROLL-02	GDC 16	43.4N	53 12.2W	S INMD12MV
0940 14/10/78		MGR E	MAGNETICS ROLL-02	GDC 00	27.2S	18 58.8W	S INMD12MV
1715 14/10/78		MGR R	MAGNETICS ROLL-03	GDC 00	27.7S	18 58.8W	S INMD12MV
1800 31/10/78		MGR E	MAGNETICS ROLL-03	GDC 34	16.9S	51 49.6W	S INMD12MV

*** SURFACE NET *** (SAMPLES TAKEN TO LAMONT-DOHERTY)

1410 1/10/78		SNXX B	202 H	04	LDO 16	57.0N	54 51.4W	S INMD12MV
1645 1/10/78		SNXX E	202 H	04	LDO 16	57.5N	54 52.6W	S INMD12MV
1340 2/10/78		SNXX B	202 H	05	LDO 16	43.3N	51 33.5W	S INMD12MV
1640 2/10/78		SNXX F	202 H	05	LDO 16	43.0N	51 36.8W	S INMD12MV
1230 3/10/78		SNXX B	202 H	06	LDO 16	41.0N	49 22.6W	S INMD12MV
1450 3/10/78		SNXX F	202 H	06	LDO 16	41.3N	49 24.1W	S INMD12MV
1245 4/10/78		SNXX B	202 H	07	LDO 16	39.3N	46 07.5W	S INMD12MV
1445 4/10/78		SNXX F	202 H	07	LDO 16	39.1N	46 08.2W	S INMD12MV

GMT D /M /Y TIME DATE	LOC LUL TIME TZ	CODE SNXX SAMP	SAMPLF IDENT.		CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
1305 5/10/78		SNXX B 202 H		08	LDD 15	31.2N	42 56.1W	S INMD12MV
1505 5/10/78		SNXX E 202 H		08	LDD 15	31.6N	42 56.7W	S INMD12MV
1015 8/10/78		SNXX B 202 H		09	LDD 11	00.1N	34 11.3W	S INMD12MV
1300 8/10/78		SNXX E 202 H		09	LDD 10	59.6N	34 09.7W	S INMD12MV
1640 10/10/78		SNXX B 202 H		10	LDD 06	58.0N	26 32.9W	S INMD12MV
1750 10/10/78		SNXX E 202 H		10	LDD 06	56.1N	26 28.6W	S INMD12MV
1300 11/10/78		SNXX B 202 H		11	LDD 05	55.4N	24 30.6W	S INMD12MV
1415 11/10/78		SNXX E 202 H		11	LDD 05	53.1N	24 28.1W	S INMD12MV
0420 13/10/78		SNXX B 202 H		12	LDD 02	43.5N	20 57.2W	S INMD12MV
0640 13/10/78		SNXX E 202 H		12	LDD 02	43.9N	20 58.9W	S INMD12MV
0940 16/10/78		SNXX B 202 H		13	LDD 05	27.5S	15 58.0W	S INMD12MV
1110 16/10/78		SNXX E 202 H		13	LDD 05	27.9S	15 57.5W	S INMD12MV
0120 18/10/78		SNXX B 202 H		14	LDD 10	02.5S	13 23.5W	S INMD12MV
0235 18/10/78		SNXX E 202 H		14	LDD 10	02.2S	13 23.3W	S INMD12MV
1915 18/10/78		SNXX B 202 H		15	LDD 12	38.5S	13 50.8W	S INMD12MV
2045 18/10/78		SNXX E 202 H		15	LDD 12	38.4S	13 50.8W	S INMD12MV
1750 19/10/78		SNXX B 202 H		16	LDD 15	16.3S	14 56.1W	S INMD12MV
2000 19/10/78		SNXX E 202 H		16	LDD 15	15.1S	14 58.3W	S INMD12MV
1600 20/10/78		SNXX B 202 H		17	LDD 17	40.3S	16 12.0W	S INMD12MV
1810 20/10/78		SNXX E 202 H		17	LDD 17	38.6S	16 12.6W	S INMD12MV
2130 21/10/78		SNXX B 202 H		18	LDD 21	53.9S	18 39.6W	S INMD12MV
2345 21/10/78		SNXX E 202 H		18	LDD 21	55.5S	18 40.9W	S INMD12MV
1605 22/10/78		SNXX B 202 H		19	LDD 24	04.5S	19 50.5W	S INMD12MV
1745 22/10/78		SNXX E 202 H		19	LDD 24	05.0S	19 50.6W	S INMD12MV
0045 26/10/78		SNXX B 202 H		20	LDD 28	59.0S	32 00.0W	F INMD12MV
0345 26/10/78		SNXX E 202 H		20	LDD 28	59.4S	32 10.6W	F INMD12MV
1330 25/10/78		SNXX B 202 H		21	LDD 38	42.4S	30 48.4W	F INMD12MV
1430 25/10/78		SNXX E 202 H		21	LDD 38	46.4S	31 00.0W	F INMD12MV
2125 26/10/78		SNXX B 202 H		22	LDD 29	22.2S	33 58.8W	S INMD12MV
0005 27/10/78		SNXX E 202 H		22	LDD 29	28.4S	33 16.2W	S INMD12MV
1106 27/10/78		SNXX B 202 H		23	LDD 29	31.8S	33 32.4W	S INMD12MV
1150 27/10/78		SNXX E 202 H		23	LDD 29	32.4S	33 35.7W	S INMD12MV
0000 28/10/78		SNXX B 202 H		24	WHB 29	59.7S	34 59.2W	S INMD12MV
0300 28/10/78		SNXX E 202 H		24	WHB 30	00.8S	35 05.9W	S INMD12MV

GMT D / M / Y TIME DATE	LUC LUC TIME TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
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BOX CUKE (CURATOR WILLIAM RIEDEL EXT. 4386)

1540	1/10/78	COBX	INMD 93	5744M	GCR 16	57.3N	54 52.0W	F INMD12MV
1506	2/10/78	COBX	INMD 94	4391M	GCR 16	43.1N	51 35.2W	F INMD12MV
1350	3/10/78	COBX	INMD 96	4588M	GCR 16	41.1N	49 23.6W	F INMD12MV
1359	4/10/78	COBX	INMD 97	3619M	GCR 16	39.2N	46 07.6W	F INMD12MV
1441	5/10/78	COBX	INMD98	4742M	GCR 15	31.6N	42 56.8W	F INMD12MV
1202	8/10/78	COBX	INMD 100	5386M	GCR 10	59.6N	34 10.4W	F INMD12MV
1917	10/10/78	COBX	INMD 101	4093M	GCR 06	56.8N	26 26.7W	F INMD12MV
1438	11/10/78	COBX	INMD 103	4492M	GCR 05	52.9N	24 28.0W	F INMD12MV
1127	12/10/78	COBX	INMD 104	3279M	GCR 04	14.7N	21 55.4W	F INMD12MV
0635	13/10/78	COBX	INMD 106	4702M	GCR 02	43.9N	20 56.3W	F INMD12MV
1100	16/10/78	COBX	INMD 109	3895M	GCR 05	27.9S	15 57.5W	F INMD12MV
0202	18/10/78	COBX	INMD 110	1959M	GCR 10	02.3S	13 23.4W	F INMD12MV
2016	18/10/78	COBX	INMD 111	3069M	GCR 12	38.5S	13 50.8W	F INMD12MV
1918	19/10/78	COBX	INMD 113	3471M	GCR 15	15.4S	14 57.6W	F INMD12MV
1658	20/10/78	COBX	INMD 115	3427M	GCR 17	38.3S	16 12.7W	F INMD12MV
2300	21/10/78	COBX	INMD 116	4722M	GCR 21	54.2S	18 40.2W	F INMD12MV
1623	22/10/78	COBX	INMD 117	4398M	GCR 24	04.5S	19 50.4W	F INMD12MV
1300	25/10/78	COBX	INMD 118	1693M	GCR 28	43.0S	30 48.3W	F INMD12MV
1925	25/10/78	COBX	INMD 120	1918M	GCR 28	49.8S	31 16.6W	F INMD12MV
0202	26/10/78	COBX	INMD 121	3908M	GCR 28	58.9S	32 00.5W	F INMD12MV
1051	26/10/78	COBX	INMD 122	3062M	GCR 29	18.0S	33 00.5W	F INMD12MV
1633	26/10/78	COBX	INMD 123	3361M	GCR 29	31.0S	33 14.4W	F INMD12MV
0042	27/10/78	COBX	INMD 125	3535M	GCR 29	44.3S	33 02.0W	F INMD12MV
1249	27/10/78	COBX	INMD 127	2509M	GCR 29	53.1S	33 58.8W	F INMD12MV
1626	27/10/78	COBX	INMD 128	1436M	GCR 29	55.1S	34 21.2W	F INMD12MV
1919	27/10/78	COBX	INMD 129	1478M	GCR 29	56.5S	34 34.2W	F INMD12MV

*** CORES *** (CURATOR WILLIAM RIEDEL EXT. 4386)

2106	2/10/78	COPG	INMD 95	4682M	GCR 16	43.0N	51 19.3W	F INMD12MV
0159	6/10/78	COPG	INMD 99	4963M	GCR 15	01.6N	41 53.0W	F INMD12MV
0626	11/10/78	COPG	INMD 102	4204M	GCR 06	16.4N	25 10.7W	F INMD12MV
2150	12/10/78	COPG	INMD 105	4592M	GCR 03	18.4N	21 19.8W	F INMD12MV
0203	16/10/78	COPG	INMD 108	4173M	GCR 04	48.1S	16 48.3W	F INMD12MV
1251	19/10/78	COPG	INMD 112	3616M	GCR 14	50.3S	14 38.9W	F INMD12MV
1257	20/10/78	COPG	INMD 114	3394M	GCR 17	37.0S	16 09.5W	F INMD12MV
1710	25/10/78	COPG	INMD 119	1971M	GCR 28	50.6S	31 14.2W	F INMD12MV
2030	26/10/78	COPG	INMD 124	3484M	GCR 29	37.0S	33 08.4W	F INMD12MV
0435	27/10/78	COPG	INMD 126	3541M	GCR 29	45.6S	32 59.2W	F INMD12MV
2128	27/10/78	COPG	INMD 130	1485M	GCR 29	57.3S	34 43.9W	F INMD12MV

*** CAMERA *** (CURATOR WOLFGANG BERGER EXT. 2750)

1228	14/10/78	CAWS R	INMD107	4185M	WHB 00	29.8S	18 59.0W	S INMD12MV
1443	14/10/78	CAWS F	INMD107	5562M	WHB 00	24.4S	19 00.1W	F INMD12MV