

INFORMAL REPORT AND INDEX OF
NAVIGATION, DEPTH AND MAGNETIC DATA

(Issued September 18, 1978)

INDOMED EXPEDITION

LEG 9

Pt. Louis, Mauritius (2 June 1978)

to

Pt. Saïd, Egypt (5 July 1978)

R/V Melville

Co-Chief Scientists - P. Lonsdale (SIO)
K. MacDonald (SIO)

Resident Marine Technician - W. Keith

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

Data Collection Funded by NSF
Grant Number OCE7720084
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).

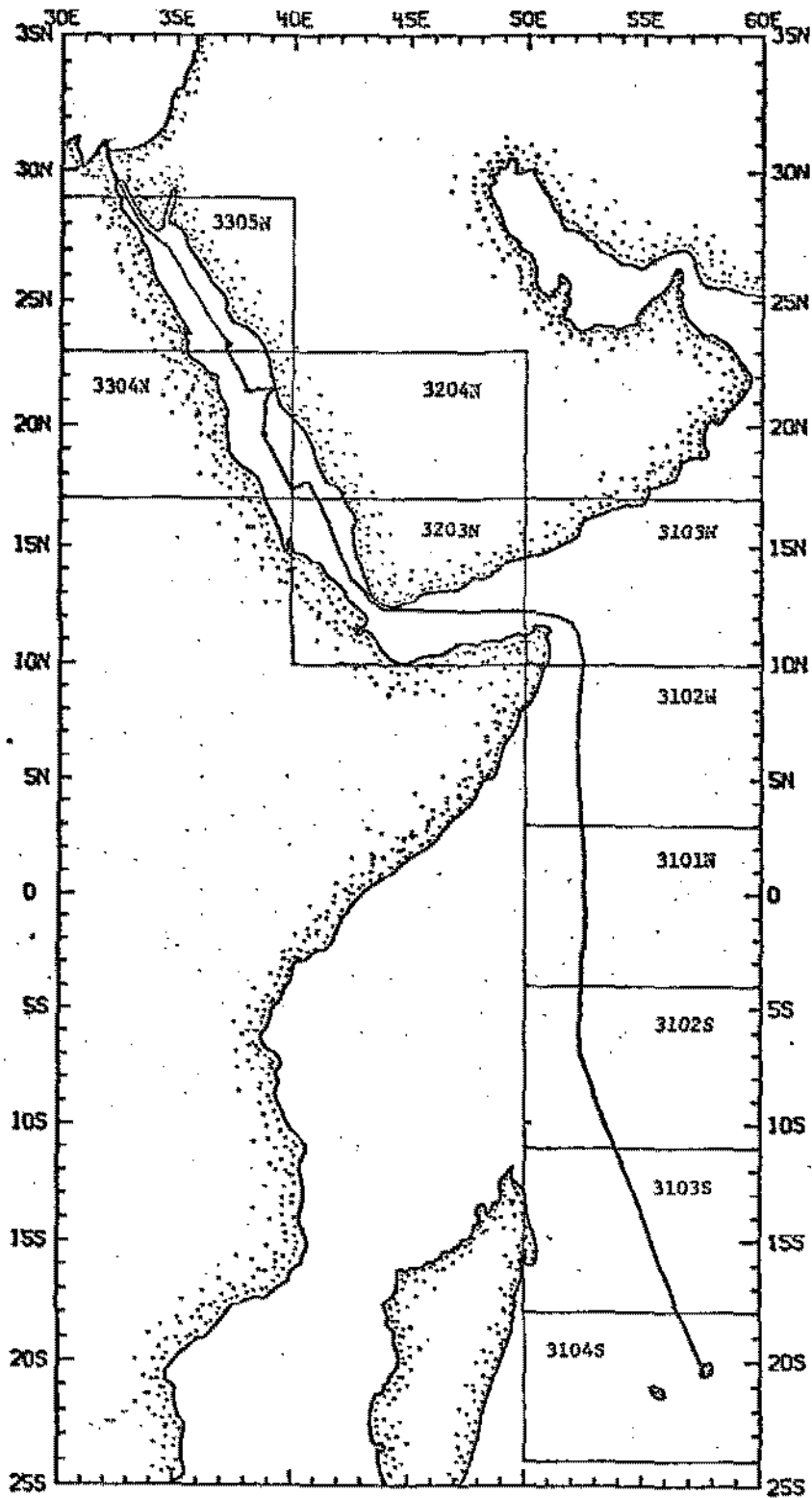
3. Plots of magnetic anomaly profiles along track - map scale = 1.2"/degree; anomaly scale between 15°N and 15°S latitude = 500 gamm/inch; anomaly scale north of 15°N and south of 15°S = 1000 gamm/inch; from values retrieved at approximately 1 mile spacing and regional field removed using the 1975 IGRF.

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



INDOMED EXPEDITION
LEG 9

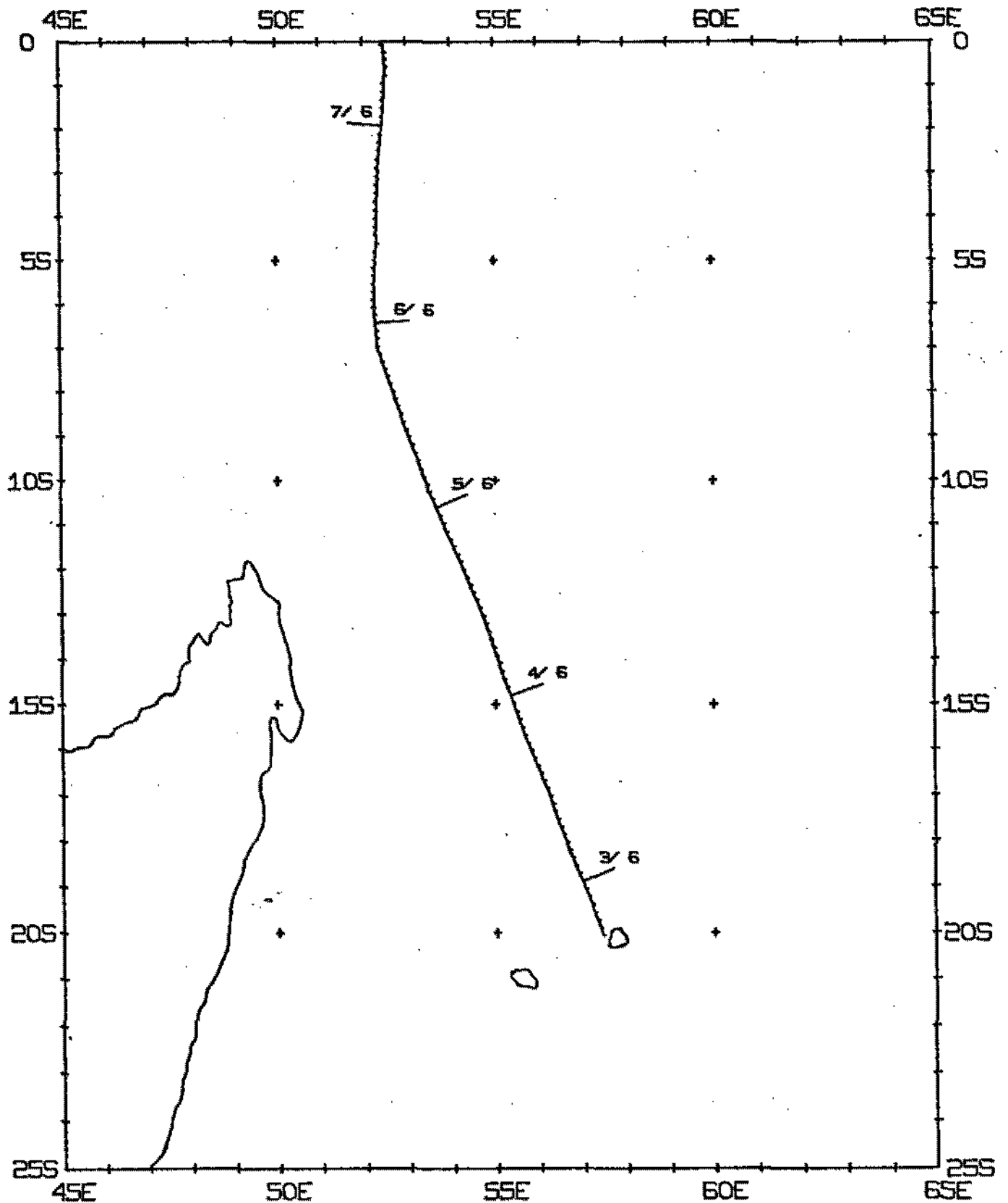
Chief Scientists: P. Lonsdale and K. MacDonald (SIO)
 Ports: Pt. Louis, Mauritius to Pt. Said, Egypt
 Dates: 2 June to 5 July 1978
 Ship: R/V Melville

TOTAL MILEAGE

- 1) Cruise - 4359 miles
- 2) Bathymetry - 2609 miles
- 3) Magnetics - 2625 miles
- 4) Seismic Reflection - none collected
- 5) Gravity - none collected

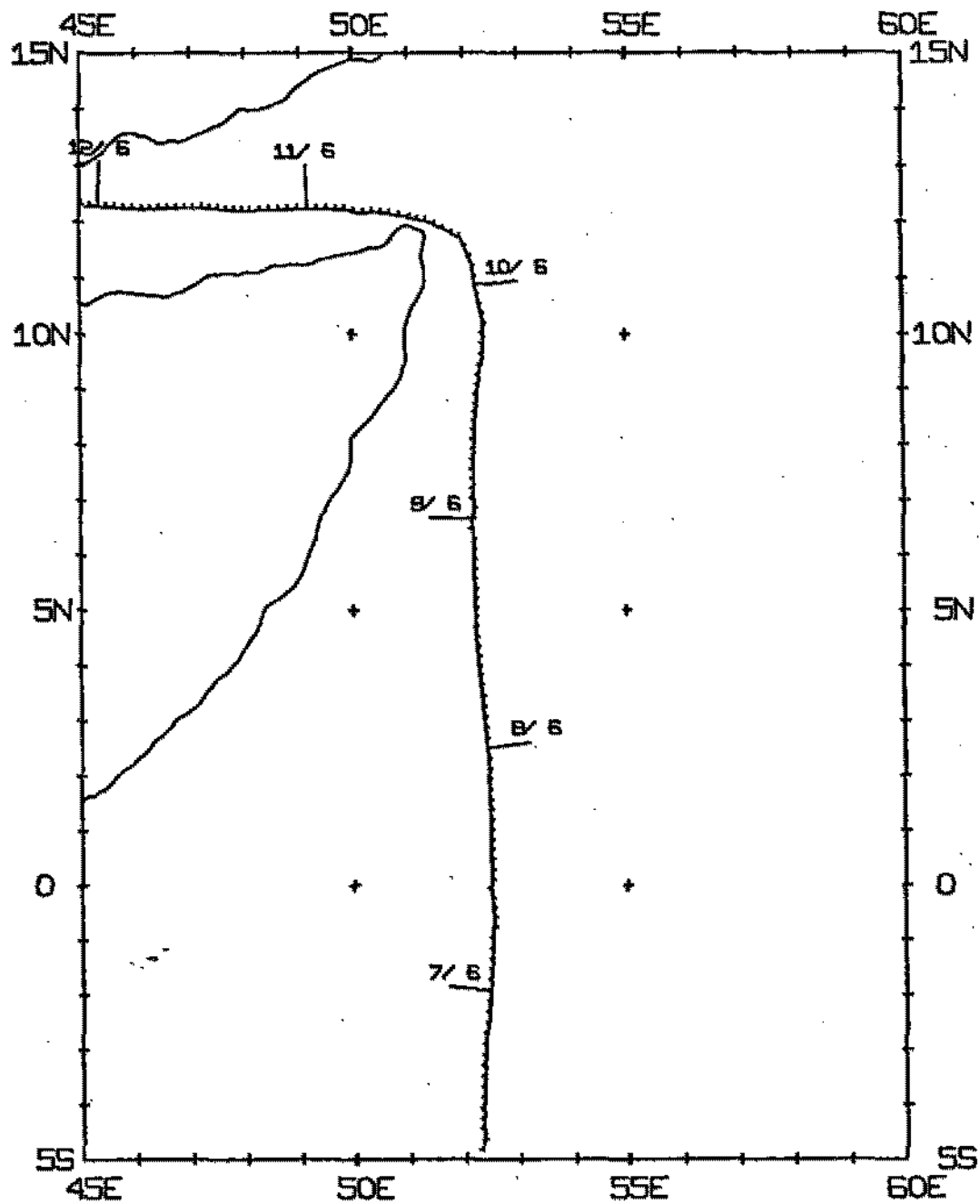
INMOSMV TRACK PLOT (1 OF 3)

MERCATOR PROJECTION, SCALE= 0.312 IN/DEG LONGITUDE



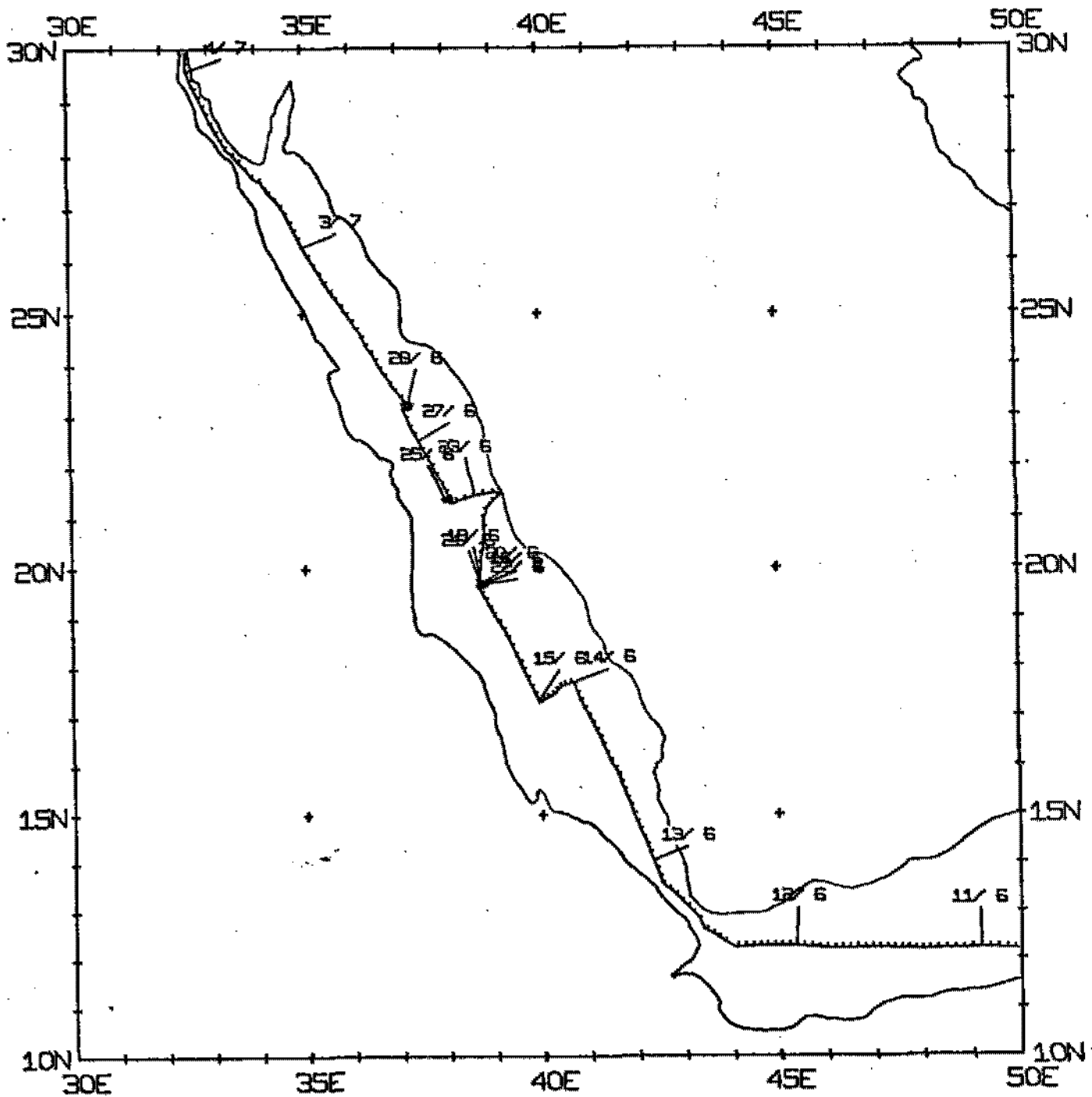
INM009MV TRACK PLOT (2 OF 3)

MERCATOR PROJECTION, SCALE= 0.312 IN/DEG LONGITUDE

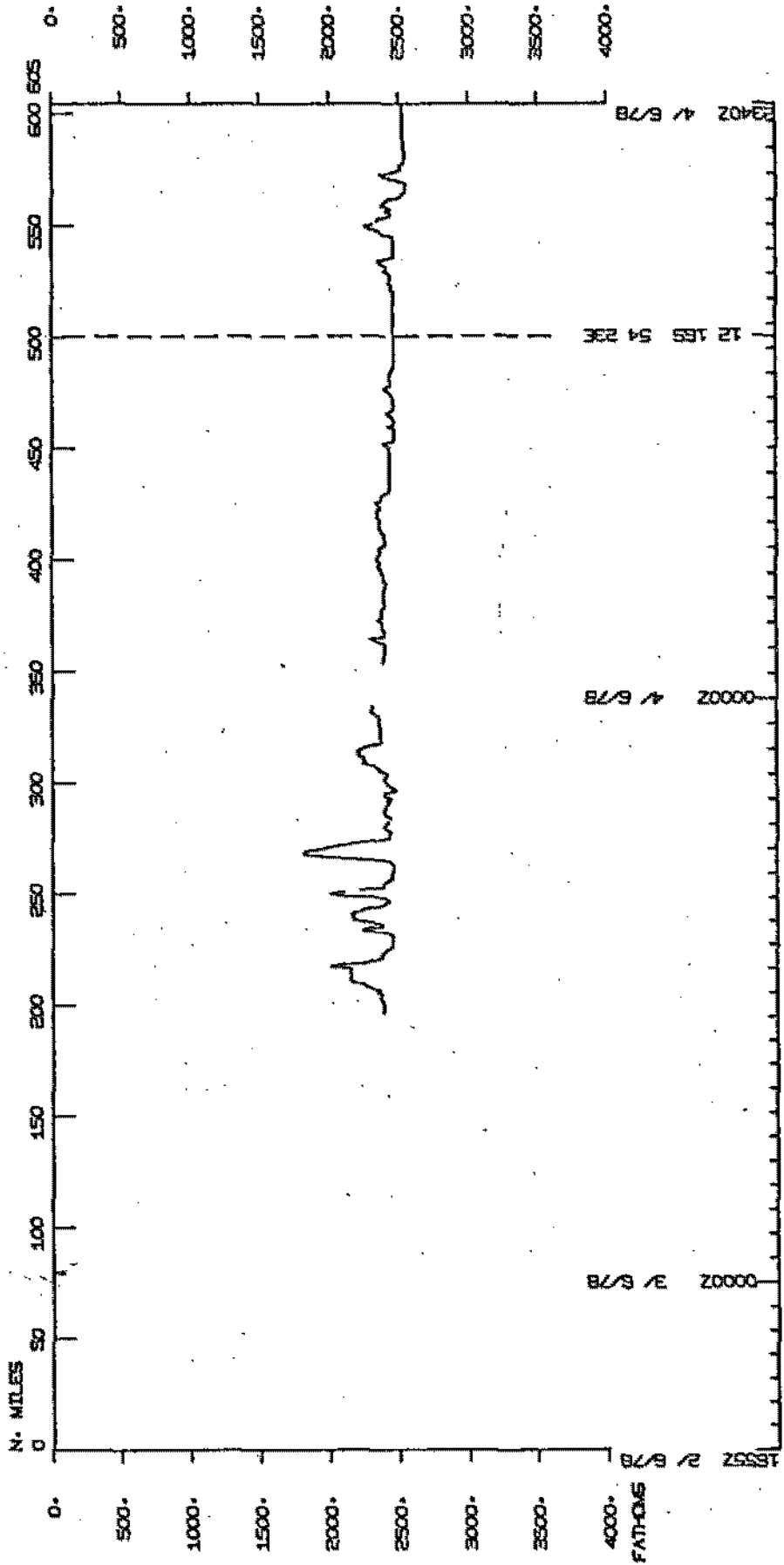
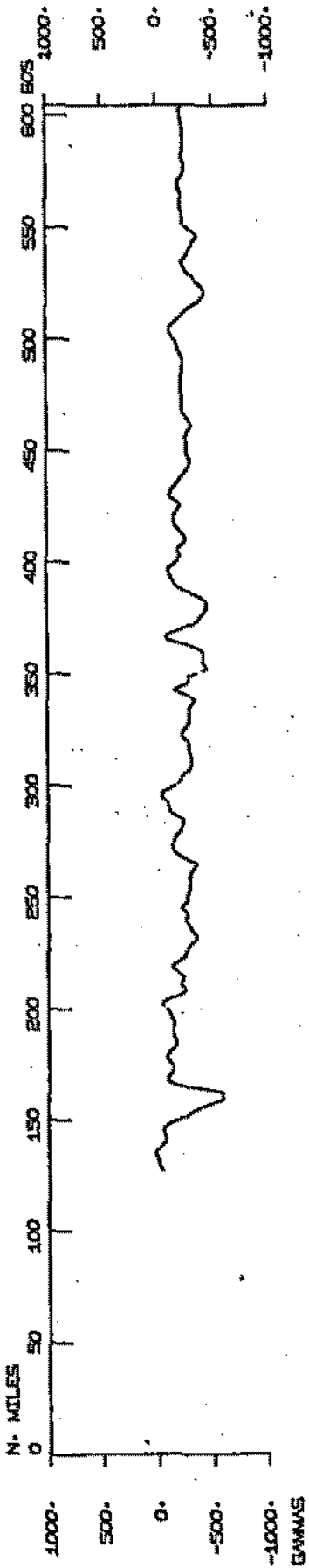
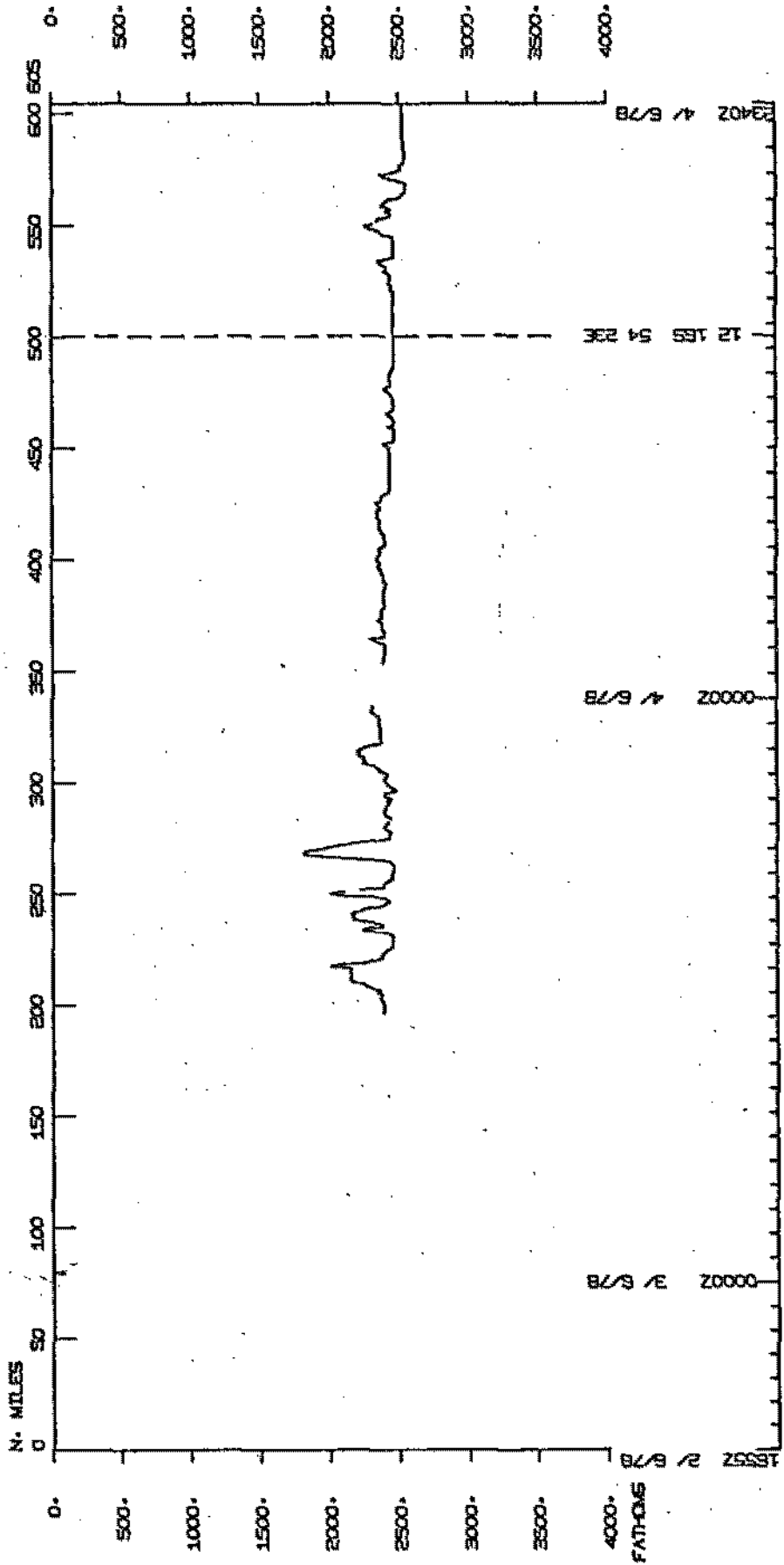
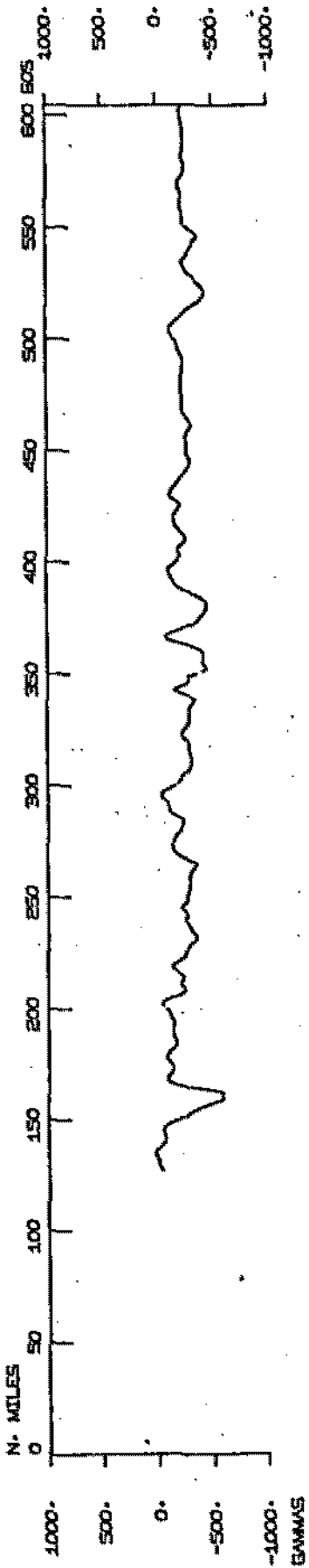


INM009MV TRACK PLOT (3 OF 3)

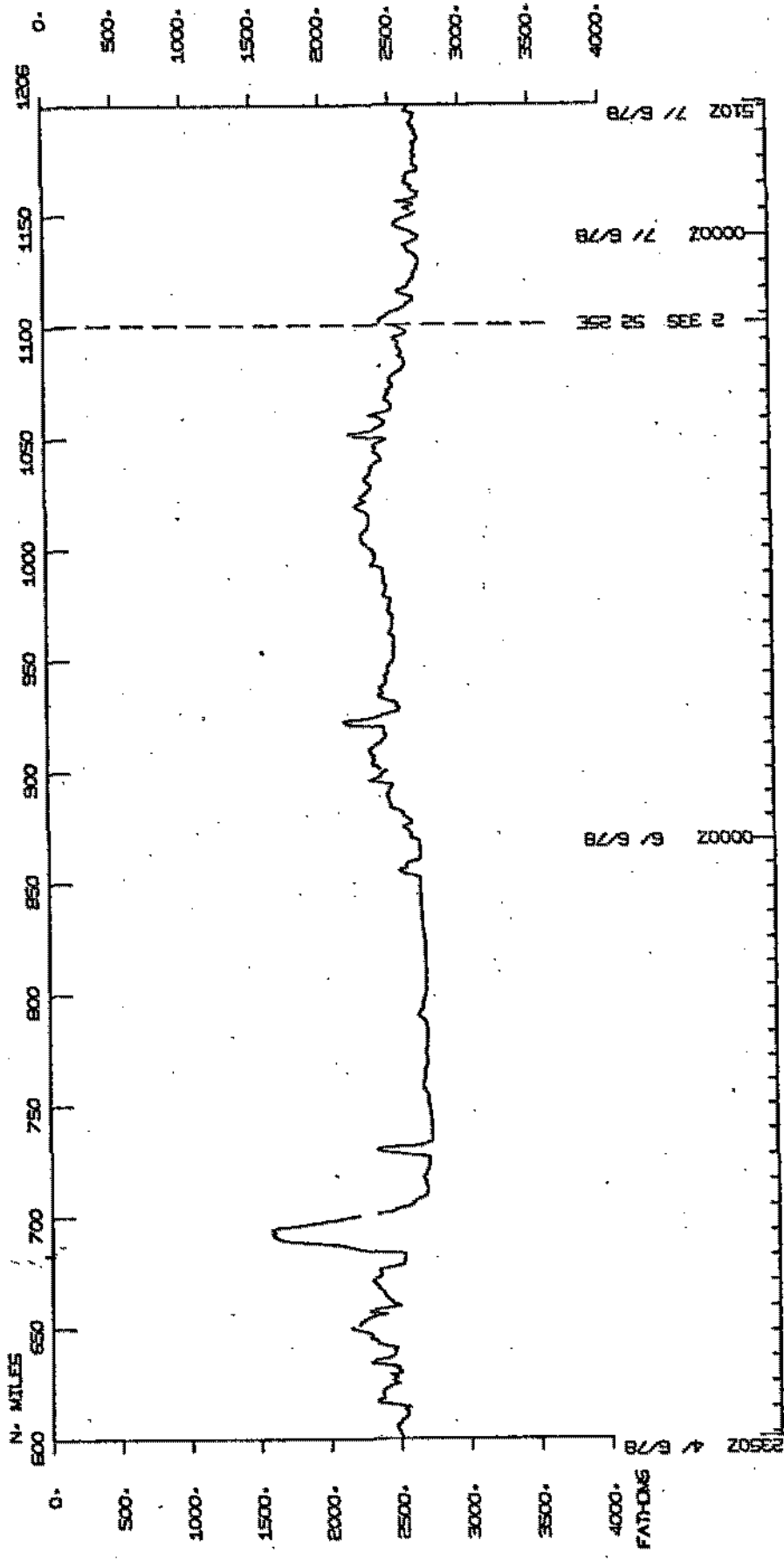
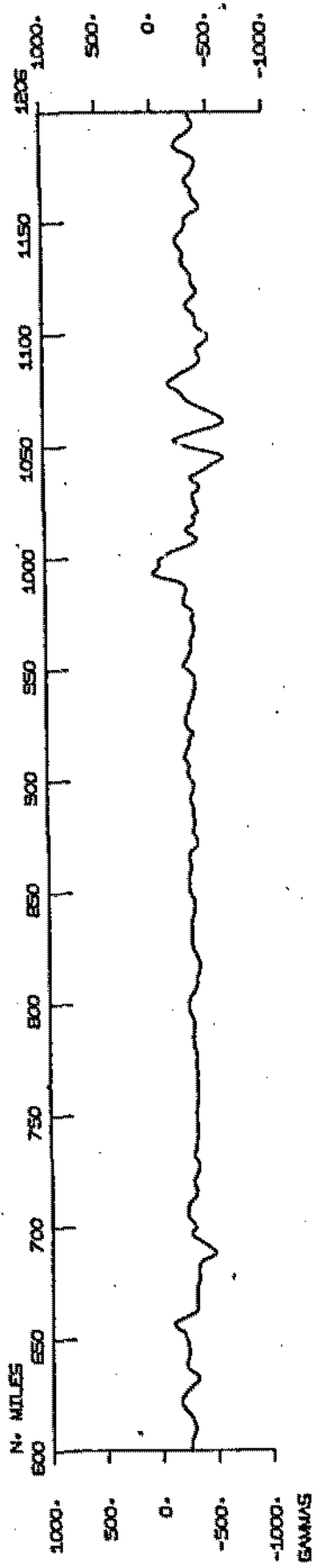
MERCATOR PROJECTION, SCALE= 0.312 IN/DEG LONGITUDE



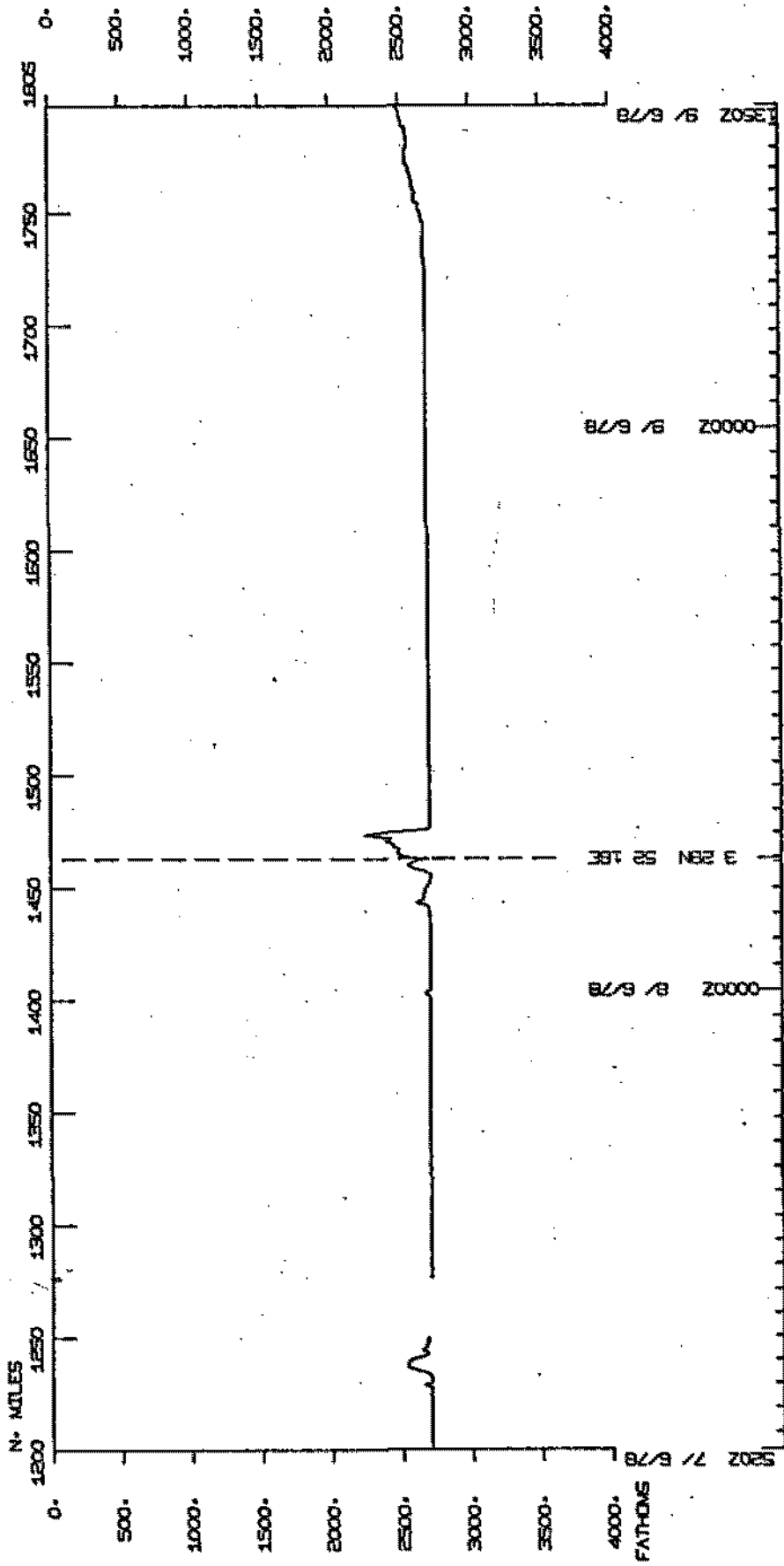
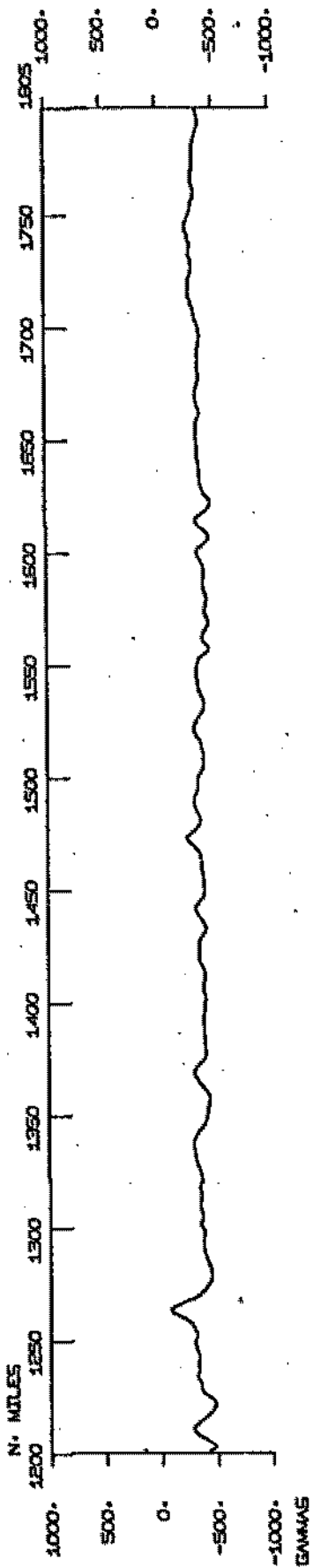
NOOMED LEG 9



INDOMED LEG 10



INDOMED LEG 0



8/9 /6 Z0501

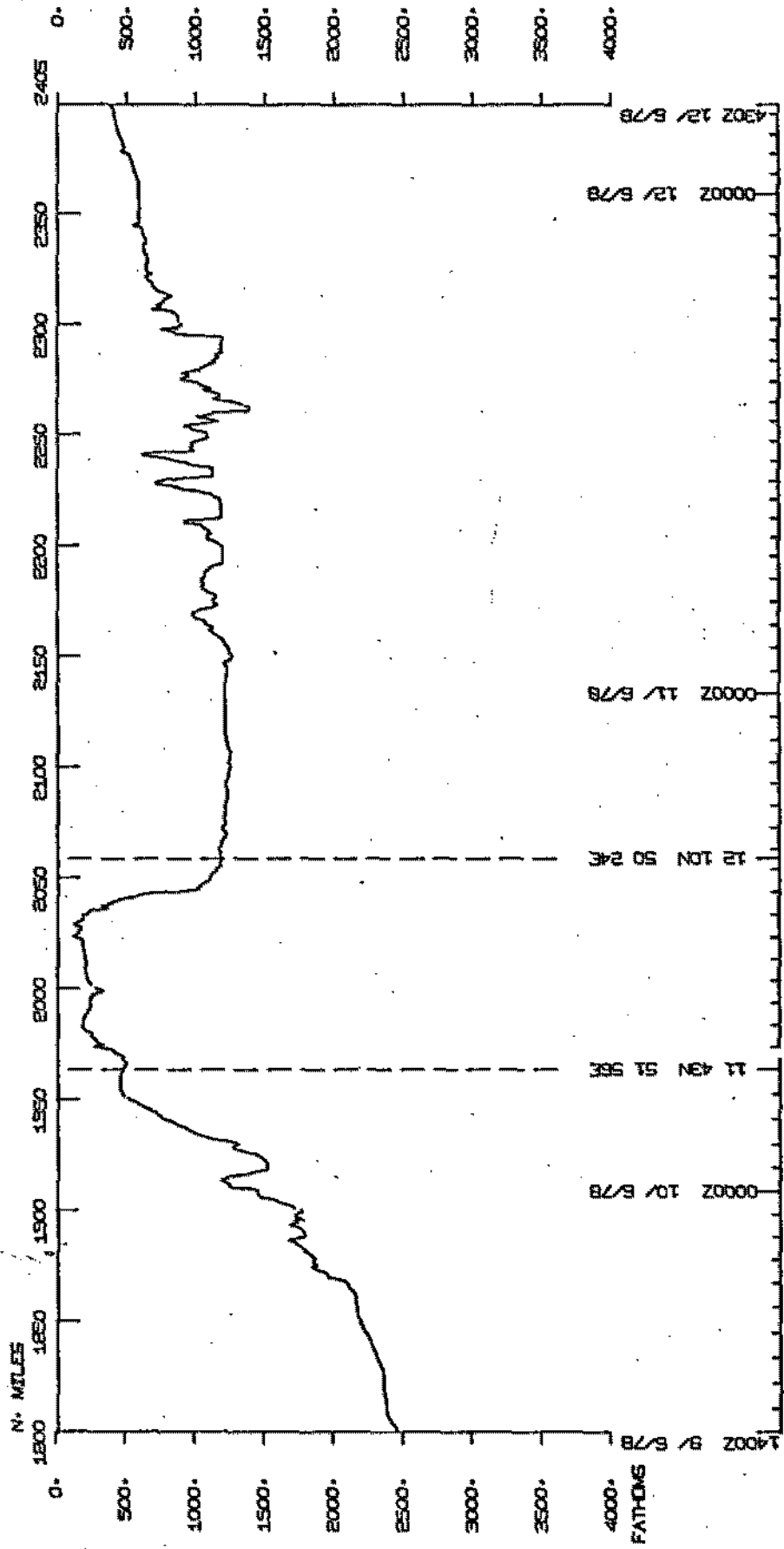
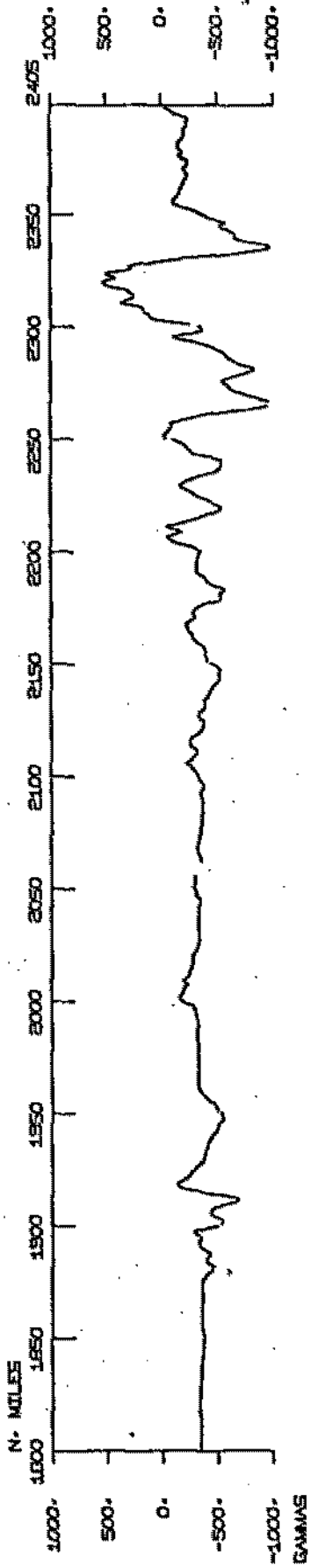
8/9 /6 Z0002

3 221 28 181

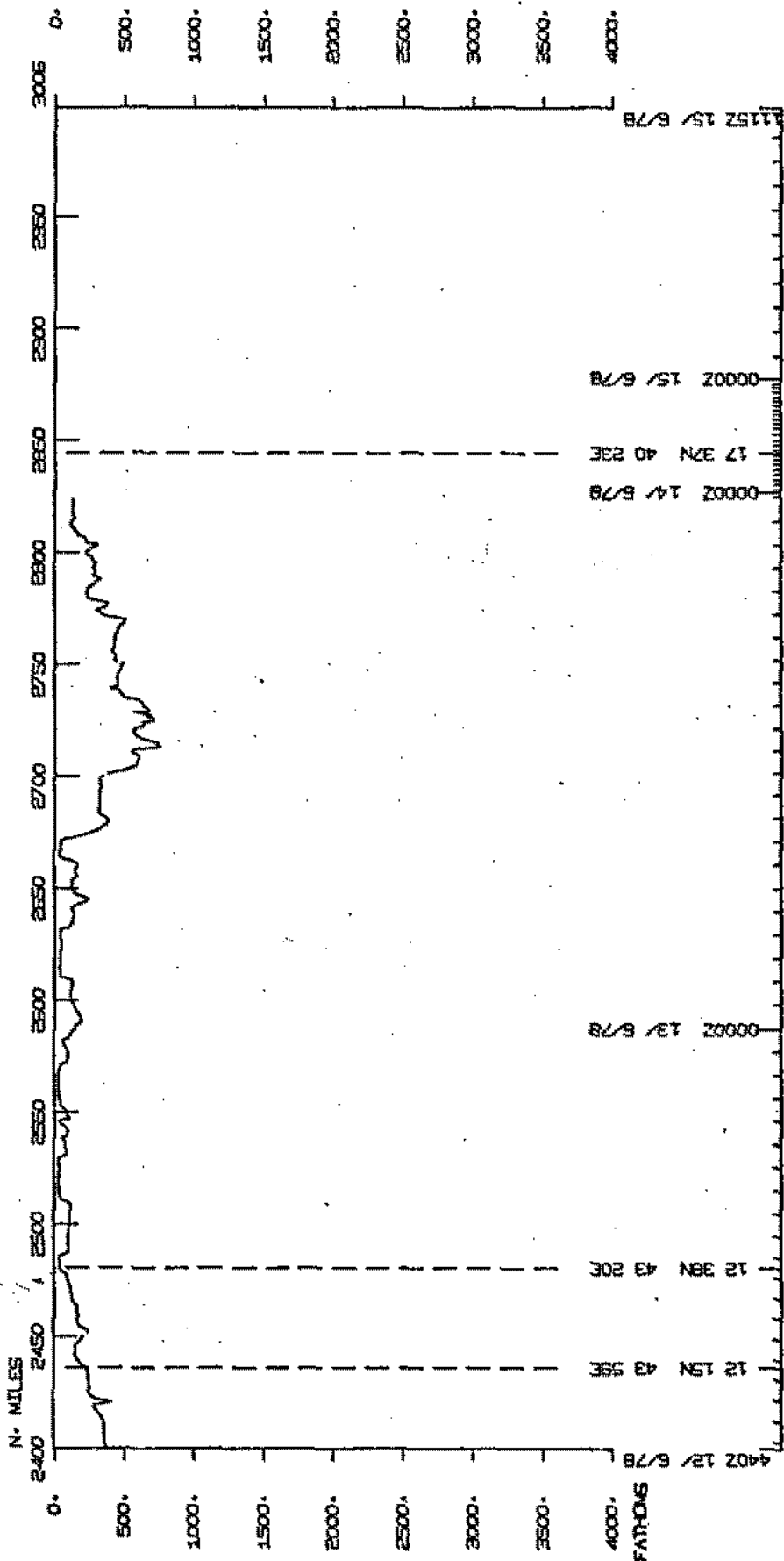
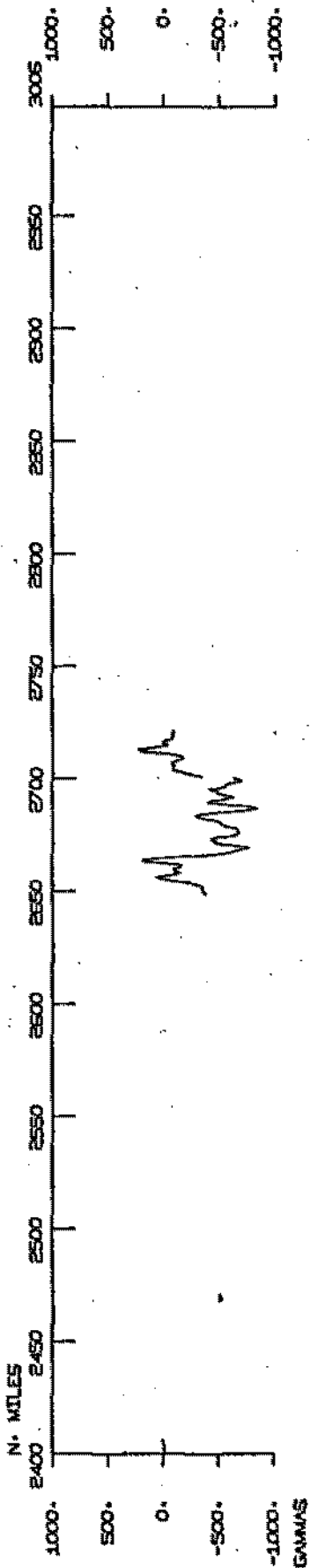
8/9 /6 Z0002

5202 7/ 6/78

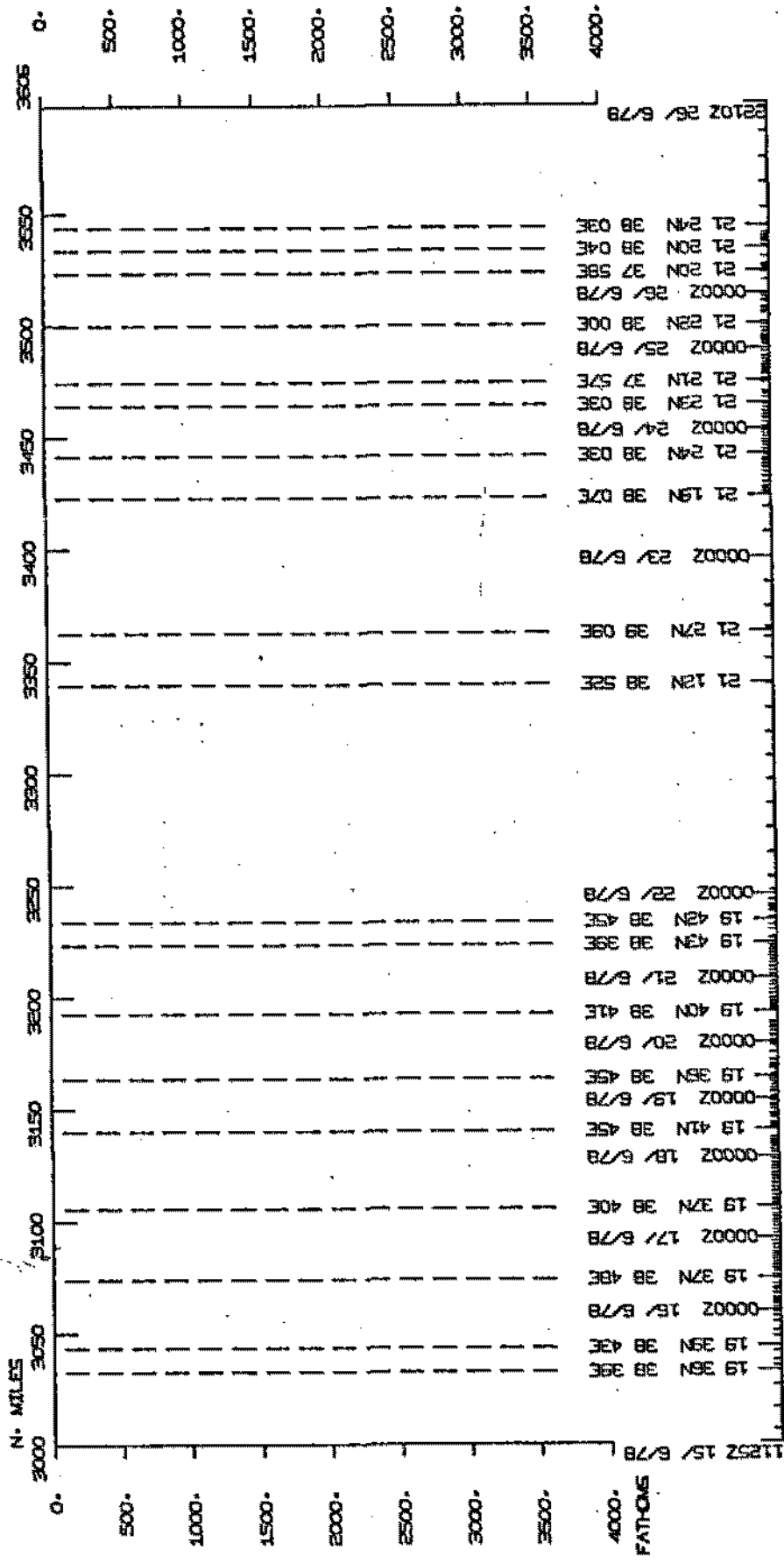
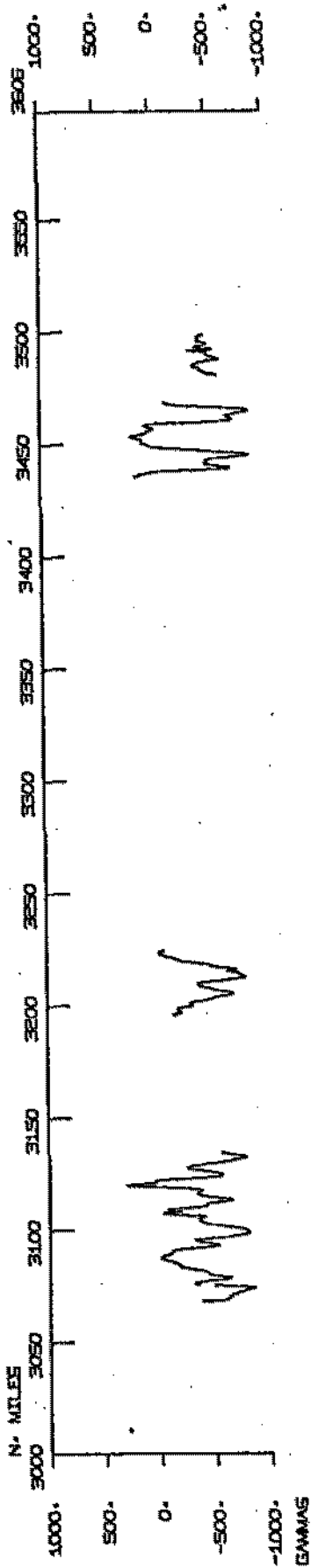
INDOMED LEG 2



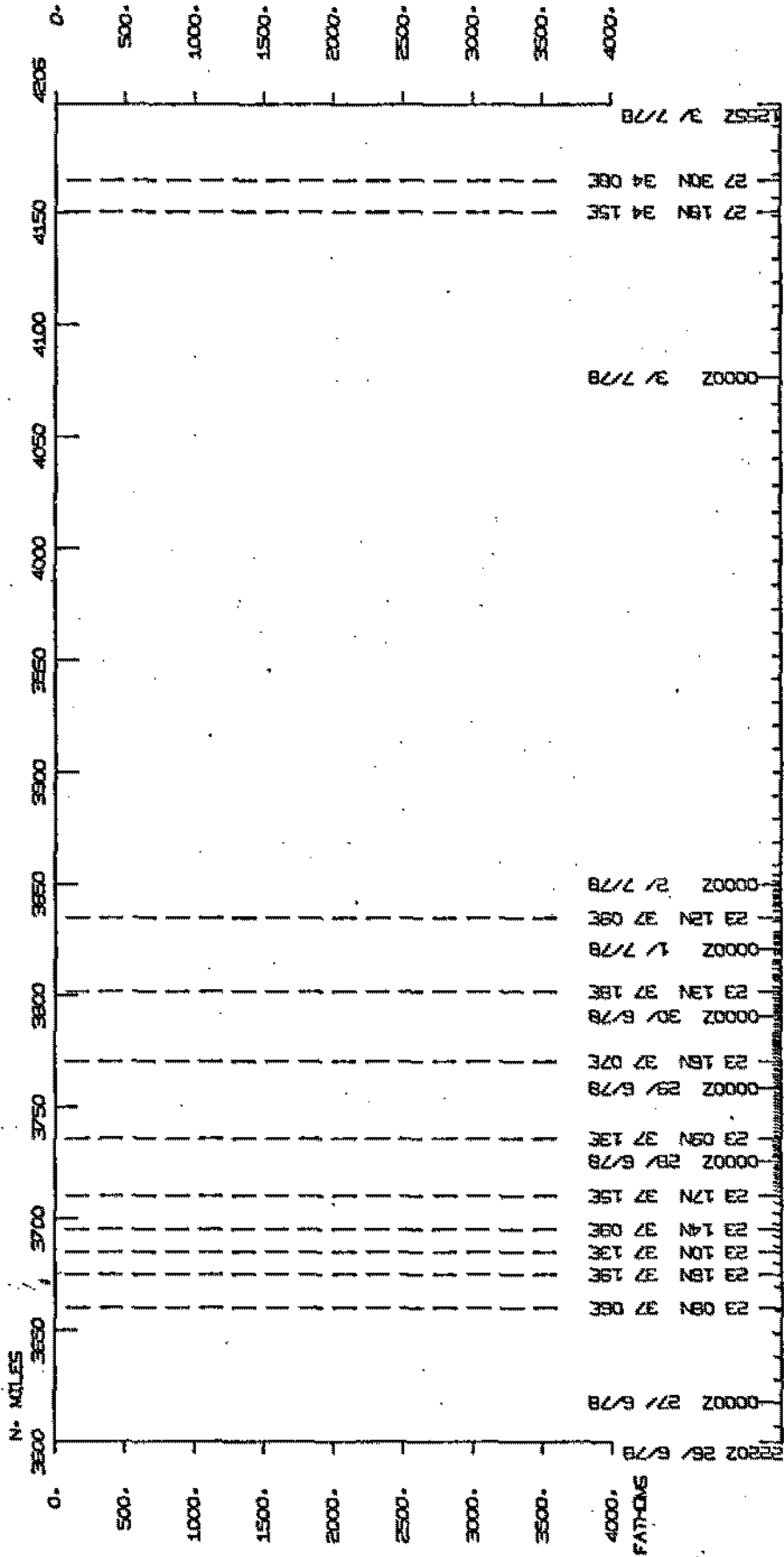
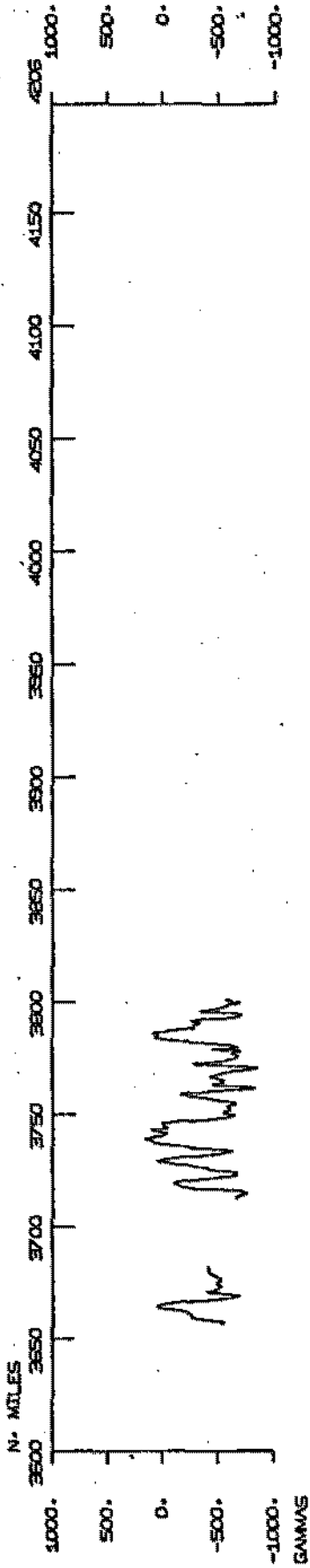
INDOMED LEG 9



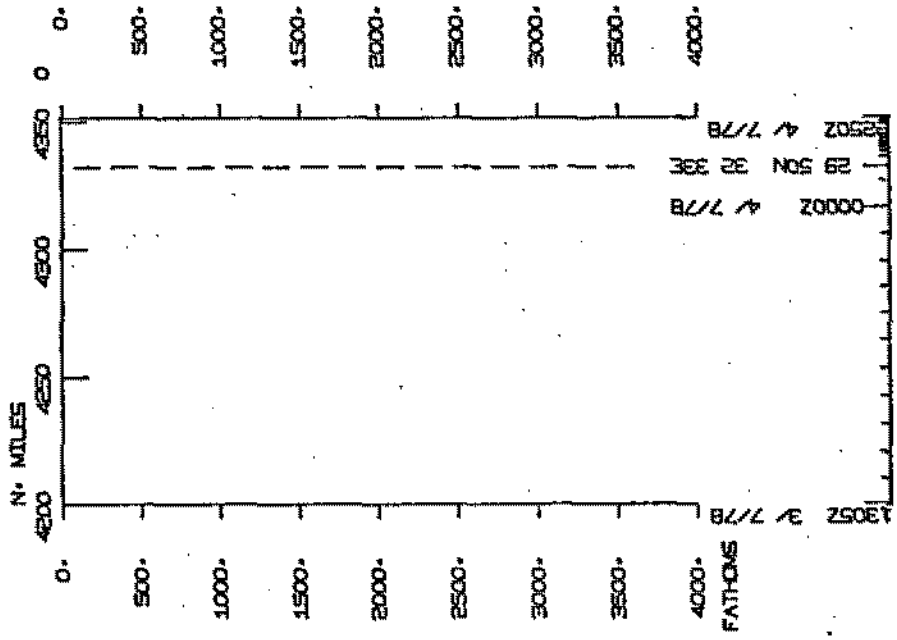
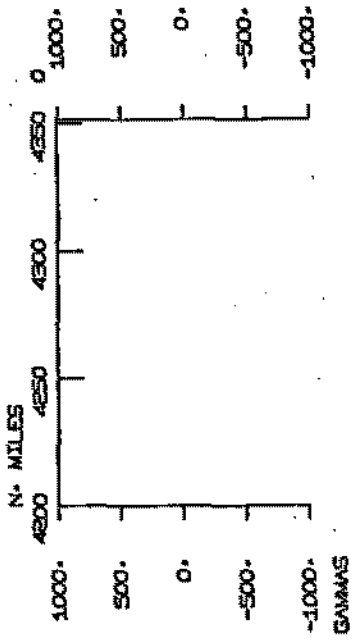
INDOMED LEG 9



INDOMED LEG 9



INDOMED LEG 9



S.I.O. SAMPLE INDEX

(Issued September 18, 1978)

INDOMED EXPEDITION

LEG 9

Pt. Louis, Mauritius (2 June 1978)

to

Pt. Said, Egypt (5 July 1978)

R/V Melville

Co-Chief Scientists - P. Lonsdale and K. MacDonald (SIO)

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	
	CO	DP	DR	DT	HC	HF	LB	MG	PE			
GCK	1	15		8							1	23
GDC	1		4					1	1		1	6
HFP	1						7				1	7
MPL	1			6							1	6
SIO	1									16	1	16
SIX	1				2					11	1	13
TOTAL	1	15	4	8	6	2	7	1	1	27	1	71

SAMPLE 'TYPE' CODES USED ABOVE

CO = CORE (SEE ALSO TYPE DH**)
 DP = DEPTH
 DR = DREDGE
 DT = DEEP TOWED INSTRUMENT PACKAGE (MPL PROJECT)
 HC = HYDROGRAPHIC CAST
 HF = HEAT PROBE
 LB = LOG BOOKS
 MG = MAGNETICS (TOWED VEHICLE, SURFACE, TOTAL FIELD)
 PE = PERSONNEL IN SCIENTIFIC PARTY

SAMPLE 'DISP' CODES USED ABOVE

GCK = GEOLOGICAL CURATING FACILITY -- W. RIEDEL, (EXT. 4386)
 GDC = GEOLOGICAL DATA CENTER -- S. SMITH (EXT. 2752)
 HFP = HEAT FLOW PROGRAM
 MPL = MARINE PHYSICAL LAB. (EXT 2305)
 SIO = SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CAL. 92093
 SIX = SCRIPPS INSTITUTION NON-EMPLOYEE - (CONTACT DORCAS UTTER EXT. 2356)

INCOMED LEG 9 SAMPLE INDEX

INMDO9MV

*** PORTS ***

1500 2 678	LGPT B PT. LOUIS, MAURITIUS	20 10 S	57 30 E	F	INMDO9MV
1500 5 778	LGPT E PORT SAID, EYGPT	31 16 N	32 18 E	F	INMDO9MV
1200 22 678	LGSS B JEDDAH, SAUDIA ARABI	21 29 N	39 11 E	F	INMDO9MV
1900 22 678	LGSS E JEDDAH, SAUDIA ARABI	21 29 N	39 11 E	F	INMDO9MV

PERSONNEL

PECS	LONSDALE, P.	SIO	INMDO9MV
PECS	MACDONALD, K.	SIO	INMDO9MV
PERT	KEITH, W.	SIO	INMDO9MV
PECT	CHARTERS, J.	SIO	INMDO9MV
PE	ABDEL-REHEIN, H. (TAM)	SIX	INMDO9MV
PE	ABU AL-SAUD, A.	SIX	INMDO9MV
PES	BECKER, K.	SIO	INMDO9MV
PE	BENSON, M.	SIO	INMDO9MV
PES	BLOOMER, S.	SIO	INMDO9MV
PE	BOEGEMAN, D.	SIO	INMDO9MV
PE	BOWSER, C.	SIX	INMDO9MV
PES	GANT, J.	SIX	INMDO9MV
PES	HARVIE, W.	SIO	INMDO9MV
PES	HAYMON, R.	SIO	INMDO9MV
PE	IDRIS, F.	SIX	INMDO9MV
PES	KASTENS, K.	SIO	INMDO9MV
PE	LANGE, K.	SIX	INMDO9MV
PEOB	MILLER, E.	SIX	INMDO9MV
PE	MILLER, S.	SIO	INMDO9MV
PE	MUDIE, J.	SIO	INMDO9MV
PE	NIAZY, A.	SIX	INMDO9MV
PE	PAVLICEK, F.	SIO	INMDO9MV
PE	RIGERS, J.	SIO	INMDO9MV
PE	SHANKS, W.	SIX	INMDO9MV
PEOB	WHITE, D.	SIX	INMDO9MV
PES	WISHNER, K.	SIO	INMDO9MV
PES	ZIFRENDERG, J.	SIX	INMDO9MV

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

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

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
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UNDERWAY DATA CURATOR - STUART M. SMITH (EXT. 2752)

*** LOG BOOKS ***

620	3	678		LBUW B	UNDERWAY LOG BOOK	GDC 17	504S	56 313E	S INMD09MV
2300	13	678		LBUW E	UNDERWAY LOG BOOK	GDC 17	413N	40 404E	S INMD09MV

*** FATHOGRAMS ***

620	3	678		DPR3 B	ED0 3.5KHZ R-01	GDC 17	504S	56 313E	S INMD09MV
1430	4	678		DPR3 E	ED0 3.5KHZ R-01	GDC 12	168S	54 234E	S INMD09MV
1439	4	678		DPR3 B	ED0 3.5KHZ R-02	GDC 12	152S	54 228E	S INMD09MV
940	7	678		DPR3 E	ED0 3.5KHZ R-02	GDC 0	71S	52 295E	S INMD09MV
1237	7	678		DPR3 B	ED0 3.5KHZ R-03	GDC 0	240N	52 284E	S INMD09MV
105	9	678		DPR3 E	ED0 3.5KHZ R-03	GDC 6	518N	52 109E	S INMD09MV
121	9	678		DPR3 B	ED0 3.5KHZ R-04	GDC 6	546N	52 109E	S INMD09MV
2304	13	678		DPR3 E	ED0 3.5KHZ R-04	GDC 17	420N	40 401E	S INMD09MV

*** MAGNETOMETER ***

630	3	678		MGR B	MAGNETICS R-01	GDC 17	487S	56 306E	S INMD09MV
1300	13	678		MGR E	MAGNETICS R-01	GDC 16	77N	41 260E	S INMD09MV

HEAT FLOW

1215	18	678		HF2M B	MPHF 1 NO.OF PENET=1	HFP 19	398N	38 406E	S INMD09MV
1225	18	678		HF2M E	MPHF 1 NO.OF PENET=1	HFP 19	399N	38 406E	S INMD09MV
2105	18	678		HF2M B	MPHF 2 NO.OF PENET=1	HFP 19	368N	38 436E	S INMD09MV
2115	18	678		HF2M E	MPHF 2 NO.OF PENET=1	HFP 19	368N	38 435E	S INMD09MV
529	20	678		HF2M B	MPHF 3 NO.OF PENET=2	HFP 19	408N	38 462E	S INMD09MV
621	20	678		HF2M E	MPHF 3 NO.OF PENET=2	HFP 19	410N	38 463E	S INMD09MV
1820	21	678		HF4M B	MPHF 4 NO.OF PENET=3	HFP 19	409N	38 447E	S INMD09MV
1937	21	678		HF4M E	MPHF 4 NO.OF PENET=3	HFP 19	409N	38 448E	S INMD09MV

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1213	30	678		HF4M B	MPHF 5 NO.OF PENET=4	HFP 23	126N	37 143E	S INMD09MV
1432	30	678		HF4M E	MPHF 5 NO.OF PENET=4	HFP 23	116N	37 135E	S INMD09MV
518	1	778		HF2M B	MPHF 6 NO.OF PENET=3	HFP 23	96N	37 157E	S INMD09MV
720	1	778		HF2M E	MPHF 6 NO.OF PENET=3	HFP 23	91N	37 163E	S INMD09MV
1822	1	778		HF2M B	MPHF 7 NO.OF PENET=5	HFP 23	101N	37 155E	S INMD09MV
2010	1	778		HF2M E	MPHF 7 NO.OF PENET=5	HFP 23	98N	37 167E	S INMD09MV

**** DEEP TOW SURVEY **** CURATOR STEVE MILLER (EXT. 4892)

33	14	678		DTS B	RED SEA SOUTH	MPL 17	429N	40 396E	S INMD09MV
2340	14	678		DTS E	RED SEA SOUTH	MPL 17	185N	39 566E	S INMD09MV
2145	15	678		DTS B	SUAKIN DEEP	MPL 19	389N	38 460E	S INMD09MV
606	18	678		DTS E	SUAKIN DEEP	MPL 19	372N	38 467E	S INMD09MV
1452	20	678		DTS B	SUAKIN DEEP	MPL 19	402N	38 425E	S INMD09MV
1310	21	678		DTS E	SUAKIN DEEP	MPL 19	443N	38 397E	S INMD09MV
334	23	678		DTS B	ATLANTIS II DEEP	MPL 21	192N	38 70E	S INMD09MV
1107	24	678		DTS E	ATLANTIS II DEEP	MPL 21	205N	38 19E	S INMD09MV
1426	24	678		DTS B	VALDIVIA DEEP	MPL 21	201N	37 577E	S INMD09MV
1121	25	678		DTS E	VALDIVIA DEEP	MPL 21	226N	37 599E	S INMD09MV
1333	27	678		DTS B	NEREUS DEEP	MPL 23	174N	37 155E	S INMD09MV
914	30	678		DTS E	NEREUS DEEP	MPL 23	136N	37 183E	S INMD09MV

HYDROGRAPHIC CAST

2230	18	678		HCNI	TSONICDP K	9	*SIX 19 367N	38 439E	S INMD09MV
1345	25	678		HCNI	TSONICDP K	10	SIX 21 210N	38 53E	S INMD09MV

*** DREDGE ***

1046	19	678		UKR B	INMD-9 160R	GCR 19	365N	38 446E	S INMD09MV
1319	19	678		DKR E	INMD-9 160R	GCR 19	361N	38 451E	S INMD09MV
248	26	678		DKR B	INMD-9 170R	GCR 21	208N	37 579E	S INMD09MV
439	26	678		DKR E	INMD-9 170R	GCR 21	205N	37 584E	S INMD09MV
545	26	678		DKR B	INMD-9 180R	GCR 21	211N	37 582E	S INMD09MV
730	26	678		DKR E	INMD-9 180R	GCR 21	210N	37 579E	S INMD09MV

* Carl Bowser (University of Wisconsin)

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1310	26	678		DKR B	INMD-9 19DR	GCR 21	195N	38 59E	S INMD09MV
1453	26	678		DKR E	INMD-9 19DR	GCR 21	207N	38 52E	S INMD09MV
1714	30	678		DKR B	INMD-9 20DR	GCR 23	83N	37 141E	S INMD09MV
1910	30	678		DKR E	INMD-9 20DR	GCR 23	85N	37 135E	S INMD09MV
2206	30	678		DKR B	INMD-9 21DR	GCR 23	82N	37 151E	S INMD09MV
2320	30	678		DKR E	INMD-9 21DR	GCR 23	83N	37 148E	S INMD09MV
1240	1	778		DKR B	INMD-9 22DR	GCR 23	126N	37 147E	S INMD09MV
1522	1	778		DKR E	INMD-9 22DR	GCR 23	128N	37 153E	S INMD09MV
2300	1	778		DKR B	INMD-9 23DR	GCR 23	103N	37 176E	S INMD09MV
55	2	778		DKR E	INMD-9 23DR	GCR 23	103N	37 180E	S INMD09MV

*** CORES ***

1437	10	678		COBX	INMD-9 75RX	2258M	GCR 12	107N	50 246E	S INMD09MV
245	19	678		COBX	INMD-9 76RX	2831M	GCR 19	370N	38 468E	S INMD09MV
632	19	678		COP	INMD-9 77P	2837M	GCR 19	370N	38 466E	S INMD09MV
632	19	678		COPG	INMD-9 77PG	2837M	GCR 19	370N	38 466E	S INMD09MV
1725	19	678		COP	INMD-9 78P	2821M	GCR 19	373N	38 464E	S INMD09MV
1725	19	678		COPG	INMD-9 78PG	2821M	GCR 19	373N	38 464E	S INMD09MV
2232	20	678		COBX	INMD-9 79RX	2768M	GCR 19	386N	38 447E	S INMD09MV
203	20	678		COP	INMD-9 80P	2711M	GCR 19	407N	38 455E	S INMD09MV
203	20	678		COPG	INMD-9 80PG	2711M	GCR 19	407N	38 455E	S INMD09MV
1549	25	678		COBX	INMD-9 81RX	2173M	GCR 21	211N	38 50E	S INMD09MV
1915	25	678		COP	INMD-9 82P	2166M	GCR 21	207N	38 39E	S INMD09MV
1915	25	678		COPG	INMD-9 82PG	2166M	GCR 21	207N	38 39E	S INMD09MV
2225	25	678		COBX x	INMD-9 83RX NO CORE		GCR 21	205N	38 64E	S INMD09MV
955	26	678		COBX	INMD-9 84RX	2185M	GCR 21	206N	38 47E	S INMD09MV
118	1	778		COP	INMD-9 85P	2346M	GCR 23	92N	37 168E	S INMD09MV
118	1	778		COPG	INMD-9 85PG	2346M	GCR 23	92N	37 168E	S INMD09MV

9900

END SAMPLE INDEX

INMD09MV