

INFORMAL REPORT AND INDEX OF
NAVIGATION, DEPTH AND MAGNETIC DATA

(Issued October 9, 1978)

INDOMED EXPEDITION

LEG 10

Port Said, Egypt (14 July 1978)
to
Cadiz, Spain (8 August 1978)

R/V Melville

Co-Chief Scientists - F. Spiess (SIO)
and W. Ryan (Lamont-Doherty Geophysical Observatory)

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 OCE77-23258
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*

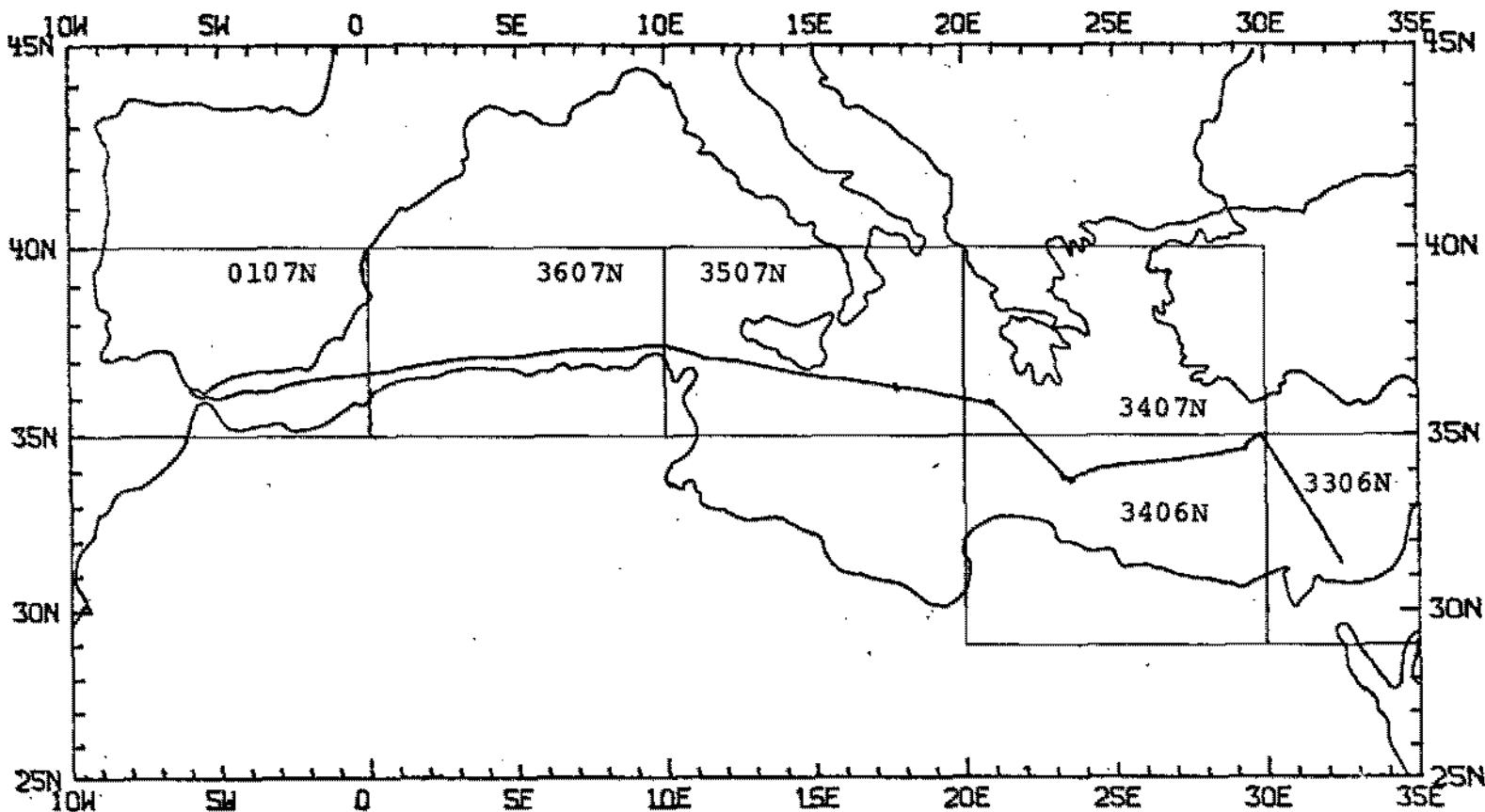
Contents:

- 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 10

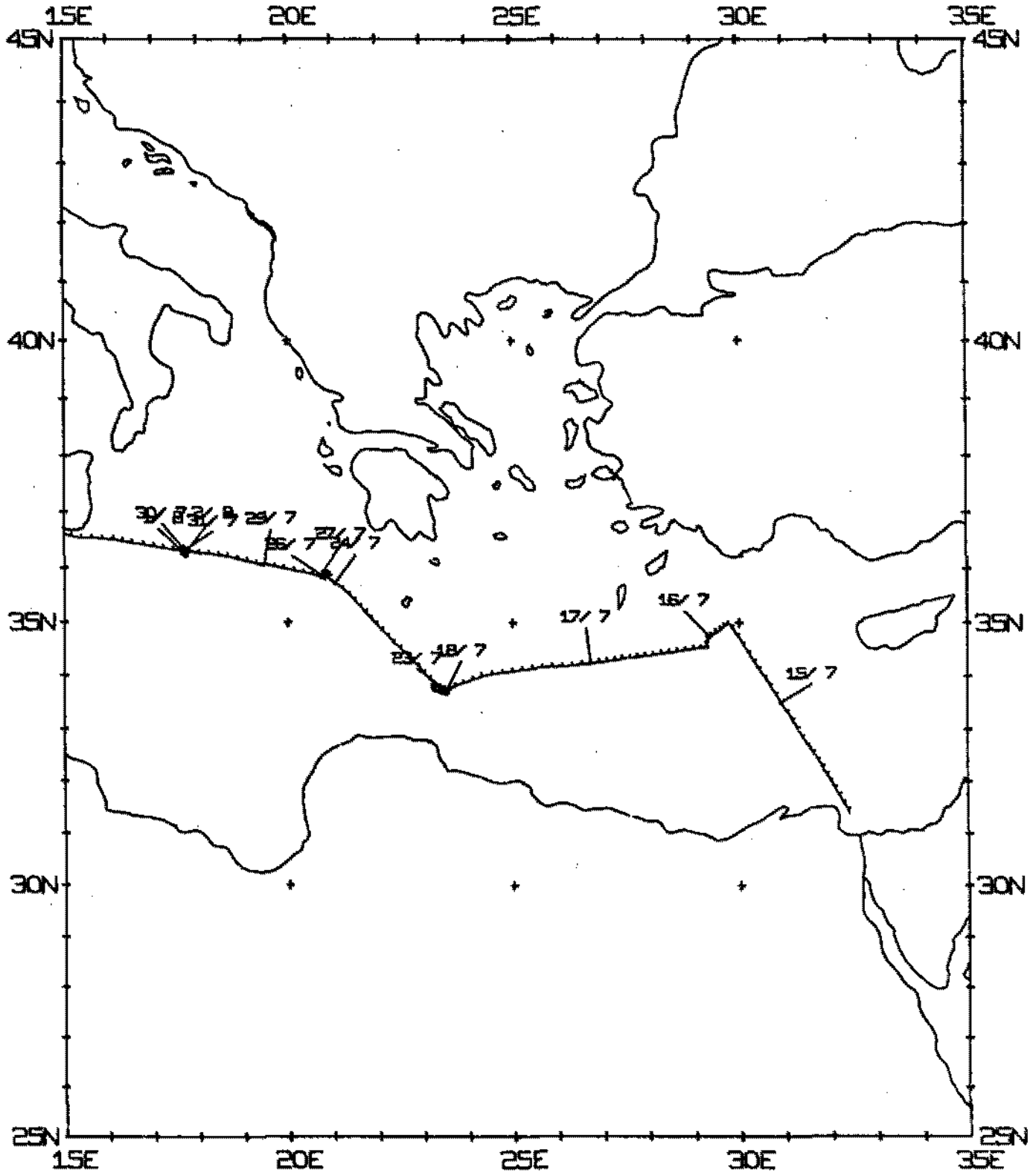
Chief Scientists: F. Spiess (SIO)
W. Ryan (Lamont-Doherty Geo. Obs.)
Ports: Port Said, Egypt to Cadiz, Spain
Dates: 14 July to 8 August 1978
Ship: R/V Melville

TOTAL MILEAGE

- 1) Cruise - 2770 miles
- 2) Bathymetry - 1945 miles
- 3) Magnetics - 1953 miles
- 4) Seismic Reflection - none collected
- 5) Gravity - none collected

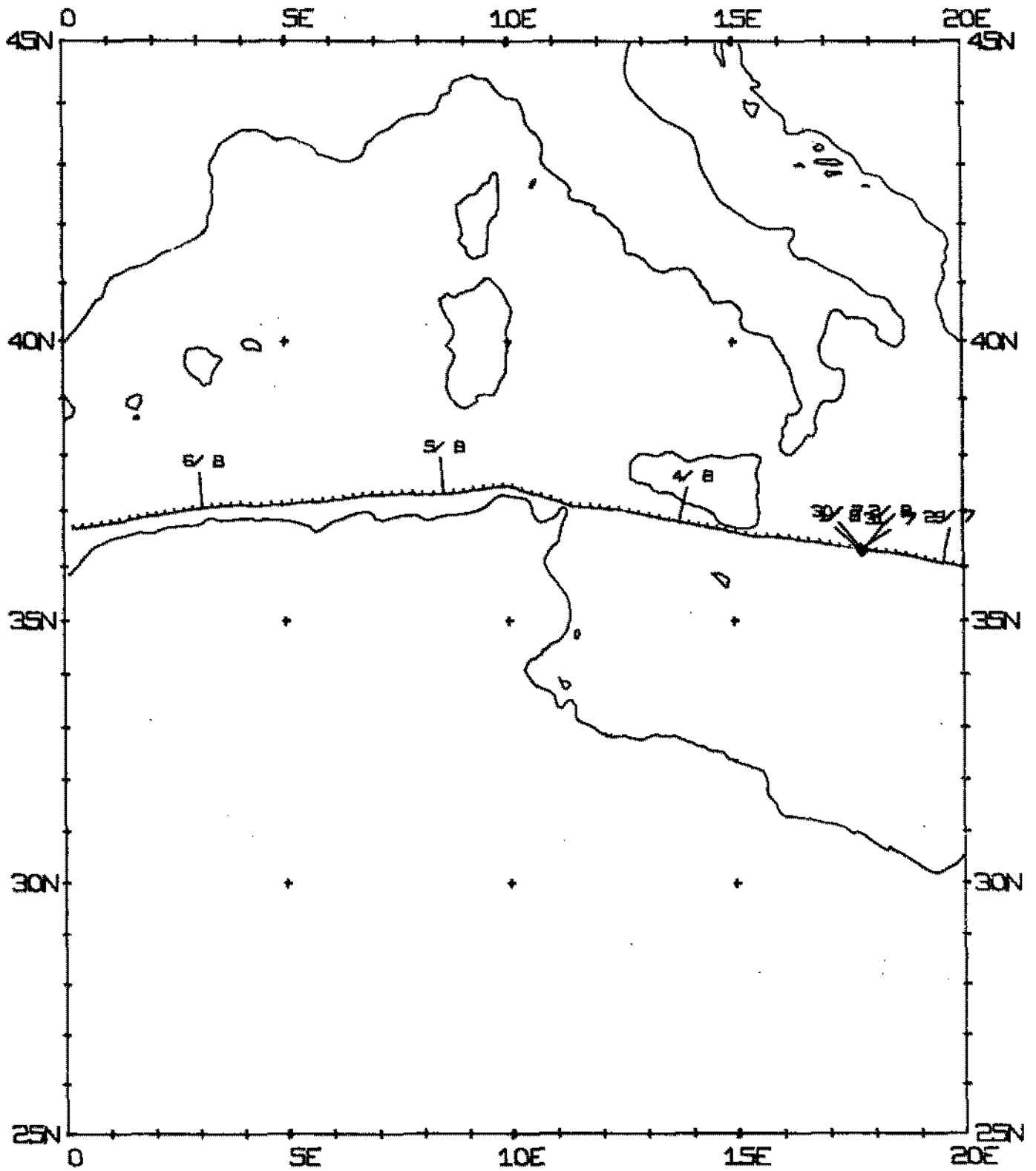
INMO10MV TRACK PLOT (1 OF 3)

MERCATOR PROJECTION, SCALE= 0.312 IN/DEG LONGITUDE



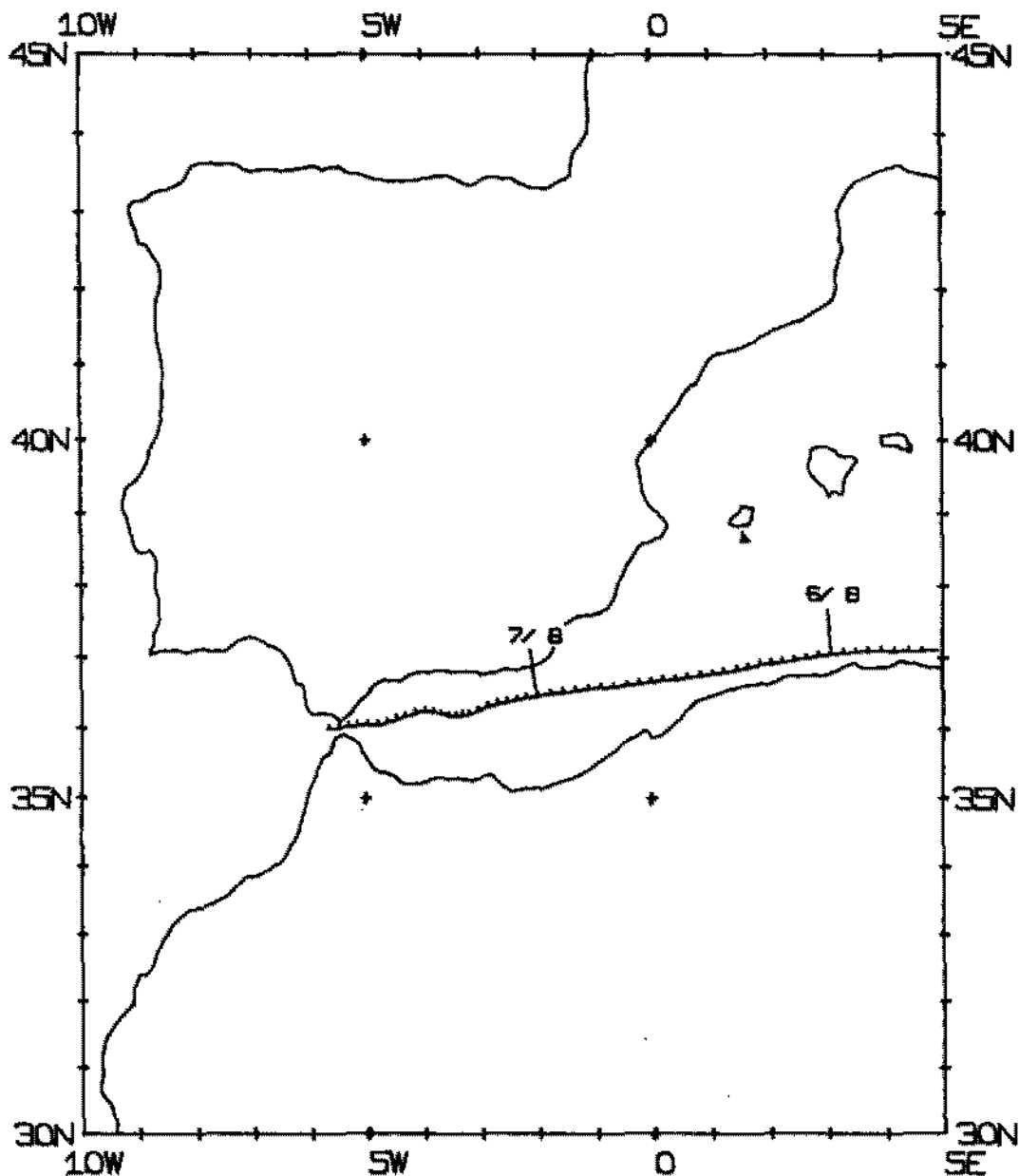
INMD10MV TRACK PLOT (2 OF 3)

MERCATOR PROJECTION, SCALE= 0.312 IN/DEG LONGITUDE

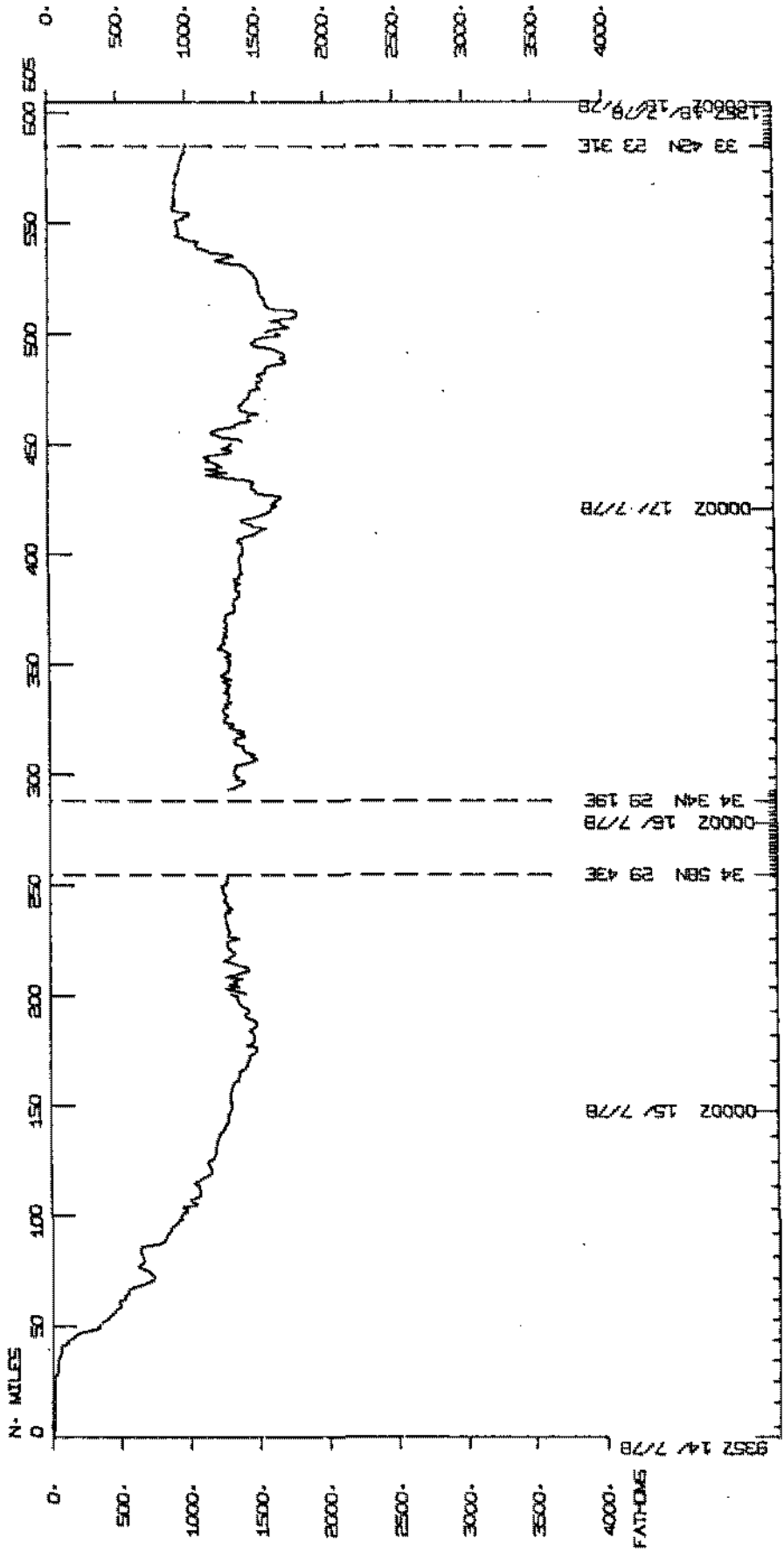
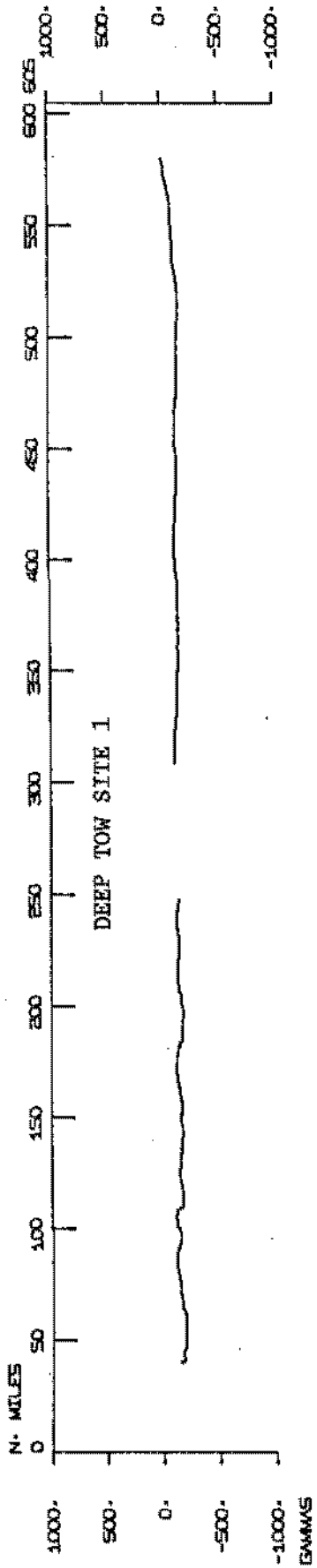


INM10MV TRACK PLOT (3 OF 3)

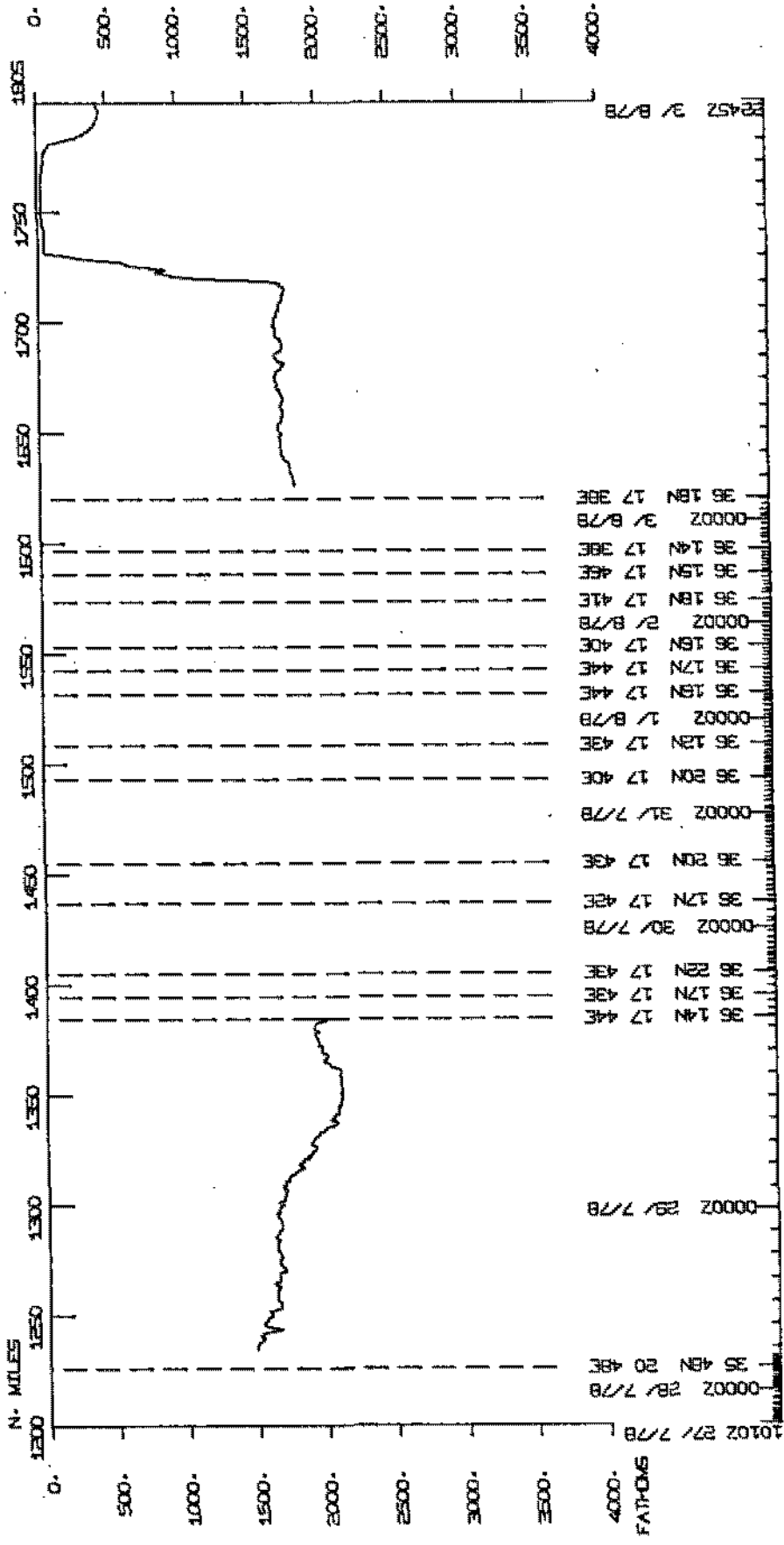
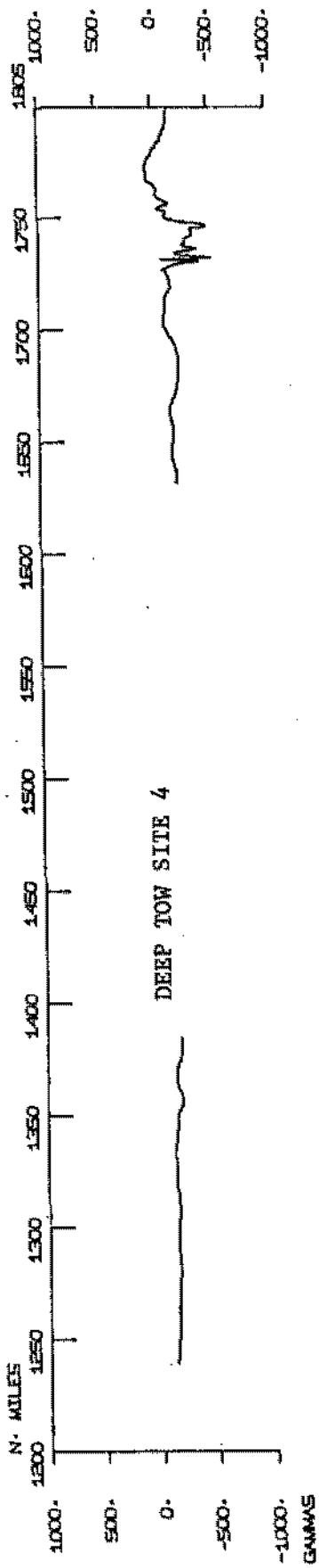
MERCATOR PROJECTION, SCALE= 0.312 IN/DEG LONGITUDE



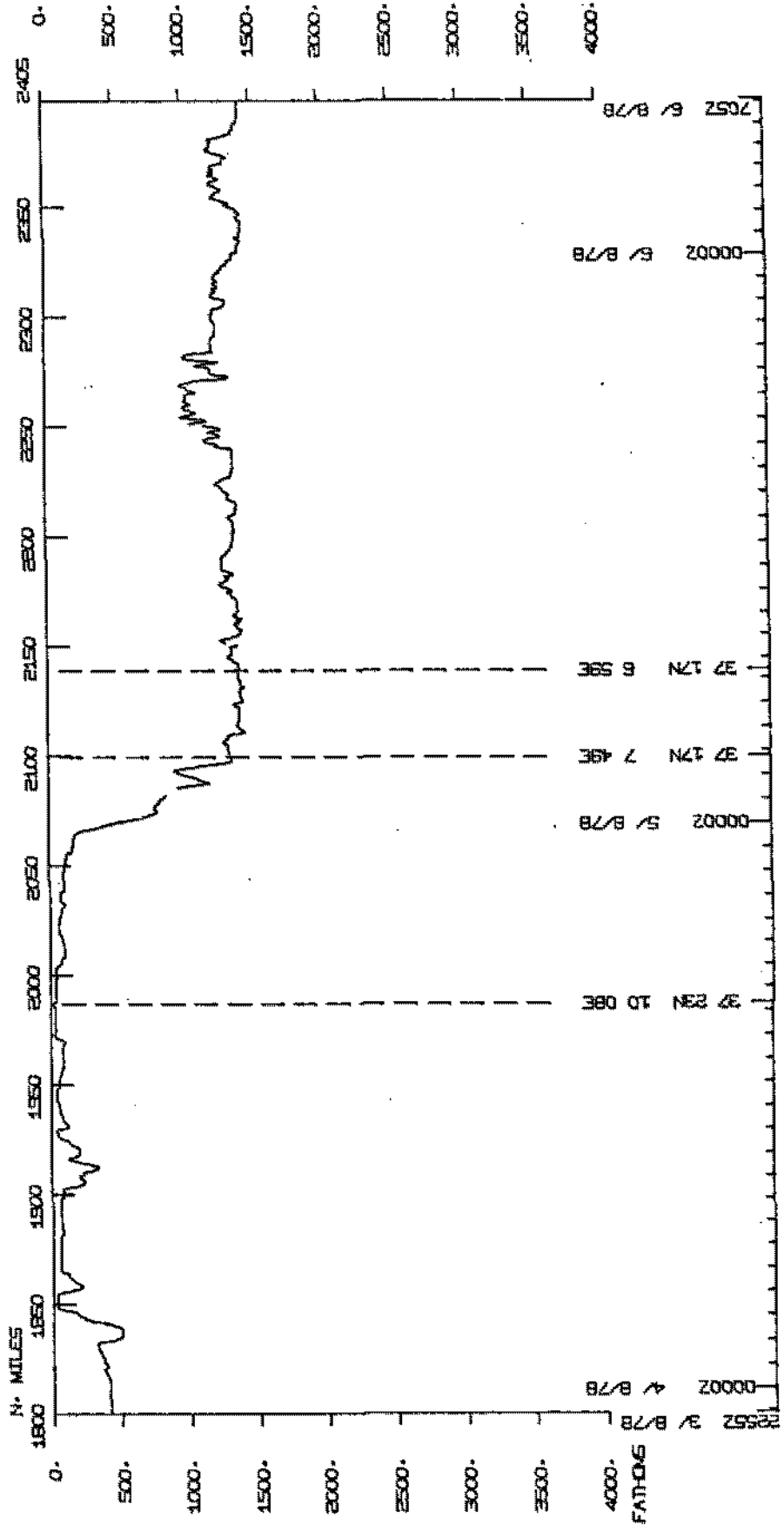
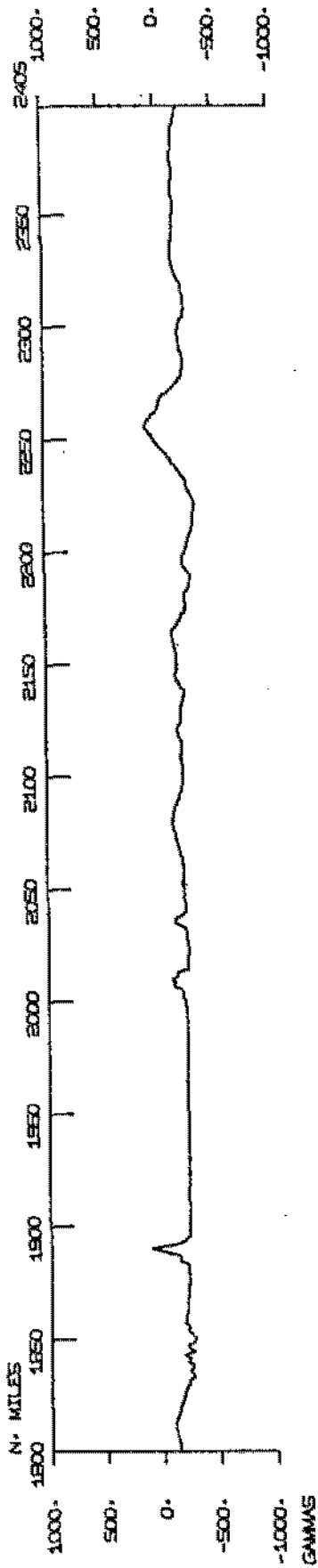
INDOMED LEG 10



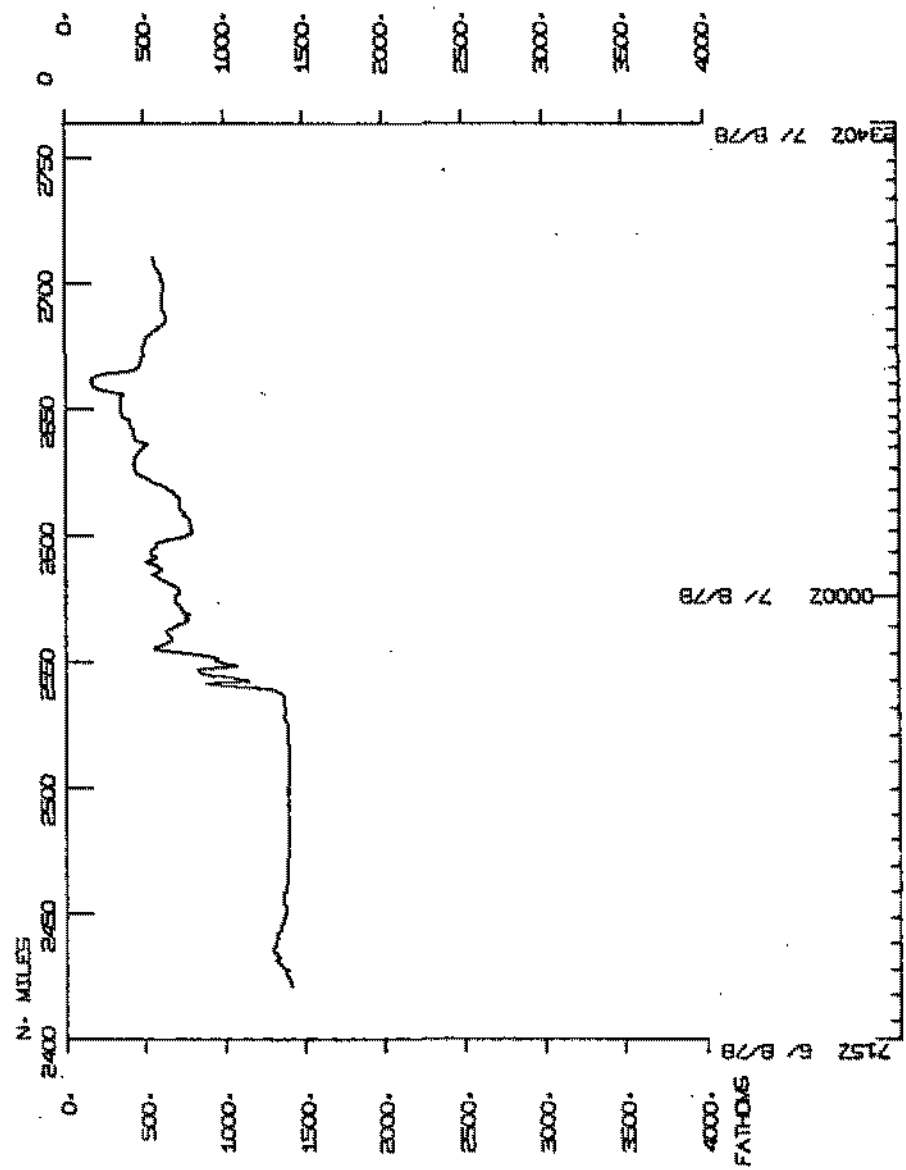
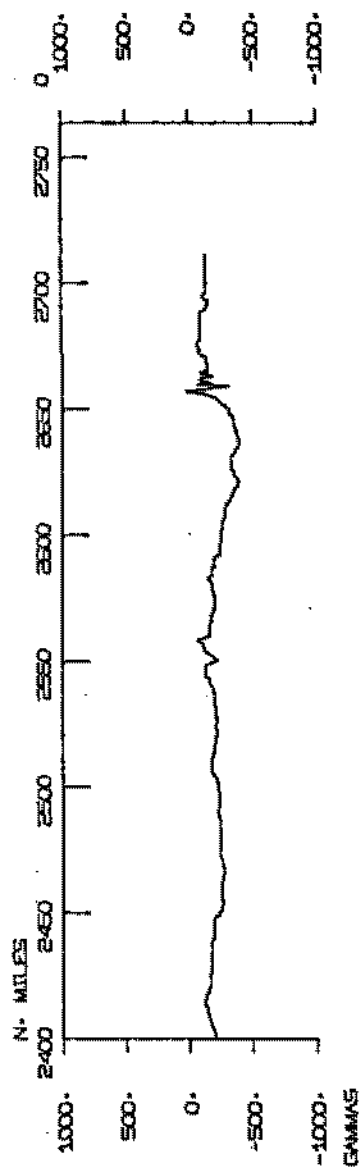
INDOMED LEG 10



INDOMED LEG 10



INDOMED LEG 10



13402 7/8/78

00002 7/8/78

2152 8/8/78

S.I.O. SAMPLE INDEX
(Issued October 9, 1978)

INDOMED EXPEDITION

LEG 10

Port Said, Egypt (14 July 1978)
to
Cadiz, Spain (8 August 1978)

R/V Melville

Co-Chief Scientists - F. Spiess (SIO)
W. Ryan (Lamont-Doherty)

Resident Marine Tech - W. Keith

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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S.I.O. SAMPLE INDEX

GENERATED 06OCT78

*** INDOMED LEG 10 SAMPLE INDEX

(INMULOMV) ***

	60E	120E	180	120W	60W	0W	
85N	+-----+-----+-----+-----+-----+-----+						85N
	X = SHIP'S TRACK BY 5 DEGREE SQUARE						
80N					0	0000	80N
75N		0		0 00000	0000000000		75N
70N		00000000000		0000 0 00 0	00000000		70N
65N	0000 000000000000000000000000000000			0000000000000000	00 0000	0	65N
60N	00000000000000000000000000000000000			0000000000000000	00 00		60N
55N	0 0000000000000000000000000000		00	0 00000000	000	0	55N
50N	00000000000000000000000000000000		0	0000000000	0000	00	50N
45N	0000000000 00000000000000000000			000000000000	0		45N
40N	0 00 00 0000000000000000 0			000000000000			40N
35N	XX XW 00000 0000000000000000 0			0000000000		0X	35N
30N	000 XXX000000000000000000000 0			00000000		00	30N
25N	00000000000 0000000000000000			0000 0		000	25N
20N	0000000 0000 000 00000		0	0 00		000	20N
15N	00000000 00 0 00 0			00 0		000	15N
10N	00000000 0 0 0 0			0		000	10N
5N	000000000				00000	000	5N
0N	000000	00 00			000000	0N	
5S	000000	0 0 0 00			0000000	5S	
10S	00000	0 00			000000000	10S	
15S	00000	0 0			0000000	15S	
20S	000000 0	00000			000000	20S	
25S	0000 0	0000000			000000	25S	
30S	00	00000000			0000	30S	
35S	00	00 000 0			00000	35S	
40S		00 0			000	40S	
45S		0			00	45S	
50S					00	50S	
55S					0	55S	
60S						60S	
65S						65S	
70S	00	0000000000			0	70S	
75S	0000000000000000000000000000000000			0	00000	0000	75S
80S	0000000000000000000000000000000000			0000000000000000000000	0000000	0000000	80S
85S	0000000000000000000000000000000000			00000000000000000000000000000000			85S
90S	0000000000000000000000000000000000			00000000000000000000000000000000			90S
	+-----+-----+-----+-----+-----+-----+						
	60E	120E	180	120W	60W	0W	

14JUL78 - PORT SAID, EGYPT
 TO
 08AUG78 - CADIZ, SPAIN

CHIEF SCIENTISTS - SPIESS, F. SIO
 RYAN, W. LDO

SHIP - R/V MELVILLE (SIU)

PRODUCED BY GEOLOGICAL DATA CENTER, SCRIPPS INSTITUTION
 OF OCEANOGRAPHY, LA JOLLA, CALIFORNIA 92093

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

DISP	TYPE					TOTAL	
	DP	DT	LB	MG	PE		
GDC	I	11	1	2	I	14	
JPN	I				2 I	2	
LDO	I				1 I	1	
MPL	I	4			I	4	
NUC	I				1 I	1	
SIO	I				15 I	15	
SIX	I				3 I	3	
TOTAL	I	11	4	1	2	22 I	40

SAMPLE 'TYPE' CODES USED ABOVE

- DP = DEPTH
- DT = DEEP TOWED INSTRUMENT PACKAGE (MPL PROJECT)
- LB = LOG BOOKS
- MG = MAGNETICS (TOWED VEHICLE, SURFACE, TOTAL FIELD)
- PE = PERSONNEL IN SCIENTIFIC PARTY

SAMPLE 'DISP' CODES USED ABOVE

- GDC = GEOLOGICAL DATA CENTER -- S. SMITH (EXT. 2752)
- JPN = JAPAN
- LDO = LAMONT-DOHERTY GEOPHYSICAL OBSERVATORY, COLUMBIA UNIVERSITY
- MPL = MARINE PHYSICAL LAB. (EXT 2305)
- NUC = NAVAL UNDERSEA CENTER, PT. LOMA, S.D.
- SIO = SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CAL. 92093
- SIX = SCRIPPS INSTITUTION NON-EMPLOYEE -(CONTACT DUKCAS UTTER EXT. 2356)

INDUMED LEG 10 SAMPLE INDEX

INMUIOMV

*** PORTS ***

800 14 778	LGPT B PORT SAID, EYGPT	31 16 N	32 18 E	F	INMUIOMV
600 8 878	LGPT E CADIZ, SPAIN	36 32 N	6 8 W	F	INMUIOMV

PERSONNEL

PECS	SPIESS, F.	SIO	INMUIOMV
PECS	RYAN, W.	LDO	INMUIOMV
PERT	KEITH, W.	SIO	INMUIOMV
PECT	ELSTON, M.	SIO	INMUIOMV
PE	BENSON, M.	SIO	INMUIOMV
PES	BLOOMER, S.	SIO	INMUIOMV
PES	EVANS, C.	SIO	INMUIOMV
PES	HARVIE, W.	SIO	INMUIOMV
PES	HAYMON, R.	SIO	INMUIOMV
PEXN	IGRAHIM, A.	SIX	INMUIOMV
PES	KASTENS, K.	SIO	INMUIOMV
PEXN	KENYON, N.	SIX	INMUIOMV
PE	LOWENSTEIN, C.	SIO	INMUIOMV
PE	MUDIE, J.	SIO	INMUIOMV
PES	ORZECH, J.	SIO	INMUIOMV
PE	PAVLICEK, F.	SIO	INMUIOMV
PE	KIOLE, K.	SIO	INMUIOMV
PE	ROGERS, J.	SIO	INMUIOMV
PE	KOSENCRANTZ, D.	NUC	INMUIOMV
PEXN	SOLE, L.	SIX	INMUIOMV
PEXN	UEDE, Y.	JPN	INMUIOMV
PEXN	WATANABE, H.	JPN	INMUIOMV

*** 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/(E)ND 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 ***

940	14	778		LBUW B	UNDERWAY LOGBOOK	GDC 31	237N	32 238E	S INMD10MV
1730	7	878		LBUW E	UNDERWAY LOGBOOK	GDC 36	36N	4 451W	S INMD10MV

*** FATHOGRAMS ***

940	14	778		DPK3 B	EDD 3.5KHZ R-01	GDC 31	237N	32 238E	S INMD10MV
935	15	778		DPK3 E	EDD 3.5KHZ R-01	GDC 34	581N	29 446E	S INMD10MV
920	16	778		DPK3 B	EDD 3.5KHZ R-02	GDC 34	328N	29 170E	S INMD10MV
1506	17	778		DPK3 E	EDD 3.5KHZ R-02	GDC 33	428N	23 319E	S INMD10MV
530	23	778		DPK3 B	EDD 3.5KHZ R-03	GDC 33	404N	23 292E	S INMD10MV
110	24	778		DPK3 E	EDD 3.5KHZ R-03	GDC 35	490N	20 524E	S INMD10MV
1754	28	778		DPK3 B	EDD 3.5KHZ R-04	GDC 35	504N	20 472E	S INMD10MV
820	29	778		DPK3 E	EDD 3.5KHZ R-04	GDC 36	152N	17 454E	S INMD10MV
640	3	878		DPK3 B	EDD 3.5KHZ R-05	GDC 36	193N	17 308E	S INMD10MV
1433	6	878		DPK3 E	EDD 3.5KHZ R-05	GDC 36	398N	0 24E	S INMD10MV
1444	6	878		DPK3 B	EDD 3.5KHZ R-06	GDC 36	396N	0 1E	S INMD10MV
1737	7	878		DPK3 E	EDD 3.5KHZ R-06	GDC 36	34N	4 463W	S INMD10MV
1015	14	778		DPRT B	GDR 12 KHZ R-01	GDC 31	292N	32 206E	S INMD10MV
1015	15	778		DPRT E	GDR 12 KHZ R-01	GDC 34	582N	29 440E	S INMD10MV
945	16	778		DPRT B	GDR 12 KHZ R-02	GDC 34	322N	29 128E	S INMD10MV
1503	17	778		DPRT E	GDR 12 KHZ R-02	GDC 33	429N	23 320E	S INMD10MV
1812	28	778		DPRT B	GDR 12 KHZ R-03	GDC 35	505N	20 433E	S INMD10MV
823	29	778		DPRT E	GDR 12 KHZ R-03	GDC 36	150N	17 449E	S INMD10MV
634	3	878		DPRT B	GDR 12 KHZ R-04	GDC 36	191N	17 319E	S INMD10MV
108	5	878		DPRT E	GDR 12 KHZ R-04	GDC 37	179N	8 112E	S INMD10MV
120	5	878		DPRT B	GDR 12 KHZ R-05	GDC 37	179N	8 85E	S INMD10MV
1228	7	878		DPRT E	GDR 12 KHZ R-05	GDC 36	139N	3 566W	S INMD10MV

TIME GMT	DATE D.M.Y.	TIME LDC	TZ LDC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
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*** MAGNETOMETER ***

1345	14	778		MGR	B MAGNETICS R-01	GDC 31	589N	32 5E	S INMD10MV
600	5	878		MGR	E MAGNETICS R-01	GDC 37	174N	7 48E	S INMD10MV
609	5	878		MGR	B MAGNETICS R-02	GDC 37	173N	7 28E	S INMD10MV
1738	7	878		MGR	E MAGNETICS R-02	GDC 36	34N	4 464W	S INMD10MV

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

1004	15	778		DTS	B SITE 1 (ALEXANDER)	MPL 34	581N	29 44E	S INMD10MV
910	16	778		DTS	E SITE 1 (ALEXANDER)	MPL 34	325N	29 172E	S INMD10MV
2046	17	778		DTS	B SITE 2	MPL 33	425N	23 259E	S INMD10MV
151	23	778		DTS	E SITE 2	MPL 33	427N	23 305E	S INMD10MV
729	24	778		DTS	B SITE 3	MPL 35	478N	20 495E	S INMD10MV
1330	28	778		DTS	E SITE 3	MPL 35	494N	20 506E	S INMD10MV
1345	29	778		DTS	B SITE 4	MPL 36	205N	17 416E	S INMD10MV
405	3	878		DTS	E SITE 4	MPL 36	174N	17 423E	S INMD10MV
9900					END SAMPLE INDEX				INMD10MV