

INFORMAL REPORT AND INDEX OF
NAVIGATION, DEPTH AND MAGNETIC DATA

(Issued August 15, 1977)

F. DRAKE 77 EXPEDITION

LEG 6

Balboa, Canal Zone (30 May 1977)
to
Acapulco, Mexico (29 June 1977)

R/V MELVILLE

Co-Chief Scientists - F. Spiess (Scripps)
and K. MacDonald (Scripps)

Resident Marine Tech - R. Lingley

Post-Cruise Processing and Report Preparation
by S.I.O. Geological Data Center - S. M. Smith,
U. Albright, G. Psaropoulos, G. Papadopoulos

Data Collection Funded by NSF

Grant Number OCE76-22040

Data Processing Funded by SIA, ONR and NSF

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 *

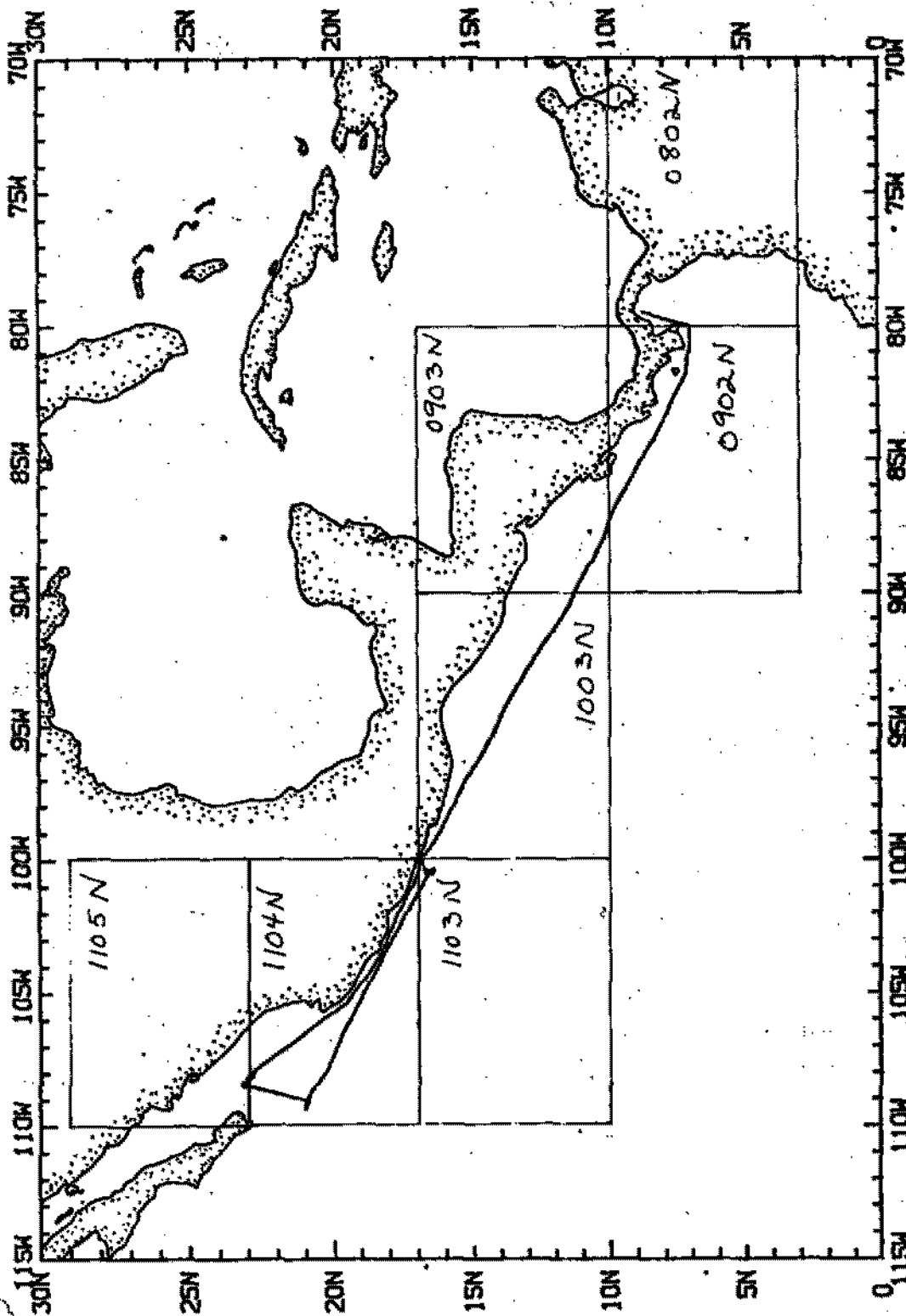
Contents:

- 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 (.3"/deg. long) is the same as the index charts of previous SIO cruises published as Report IHR 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 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 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). Phone: (714) 452-2752.
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



F. DRAKE 77 EXPEDITION
LEG 6

R/V MELVILLE

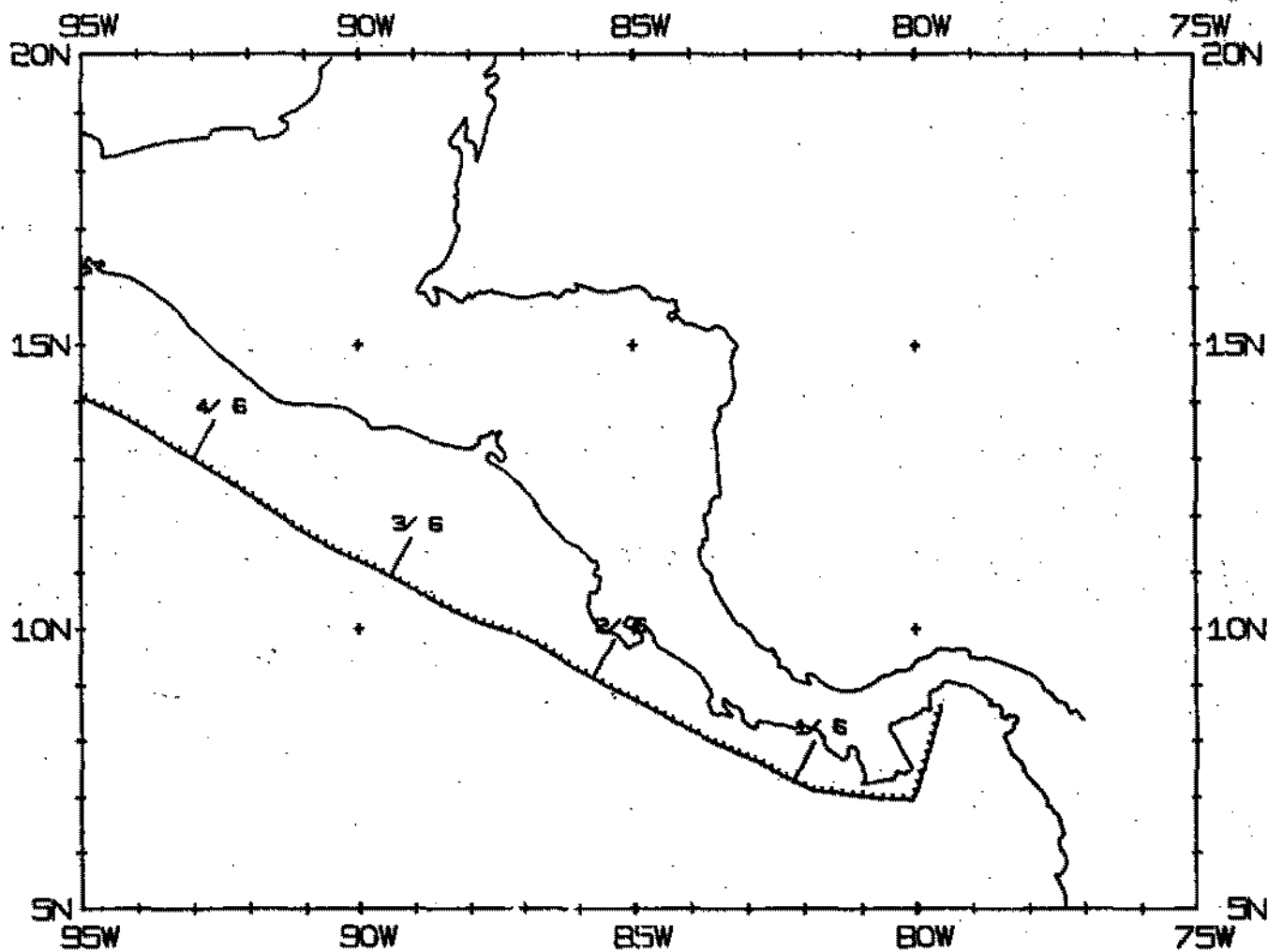
Co-Chief Scientists - F. Spiess and K. MacDonald (Scripps)
Ports - Balboa, Canal Zone - Acapulco, Mexico
Dates - May 30 - June 29, 1977

TOTAL MILEAGE

- 1) Cruise - 3699 miles
- 2) Bathymetry - 2494 miles
- 3) Magnetics - 2605 miles
- 4) Seismic Reflection - none collected

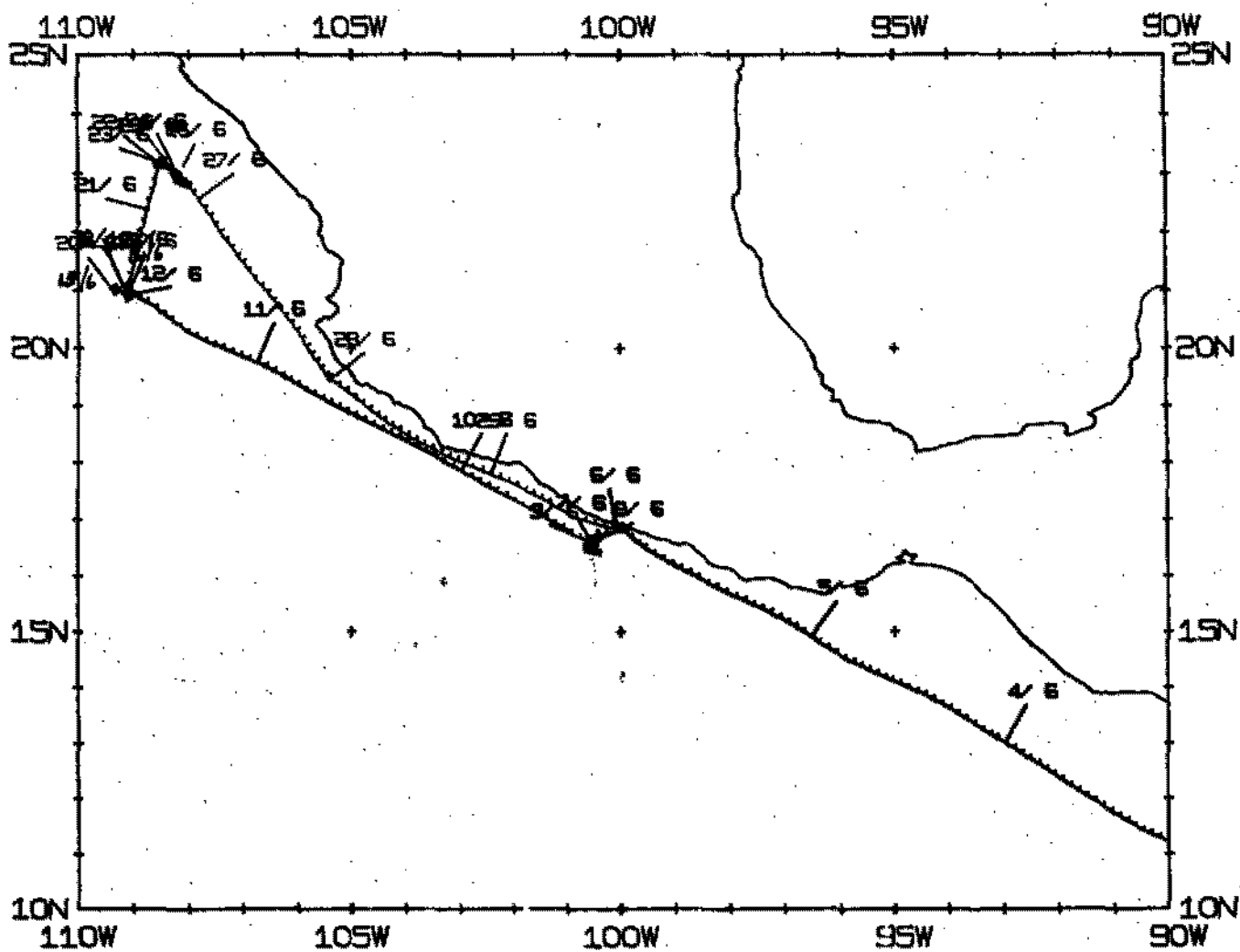
FD7706MV TRACK PLOT (1 OF 2)

MERCATOR PROJECTION, SCALE= 0.312 IN/DEG LONGITUDE

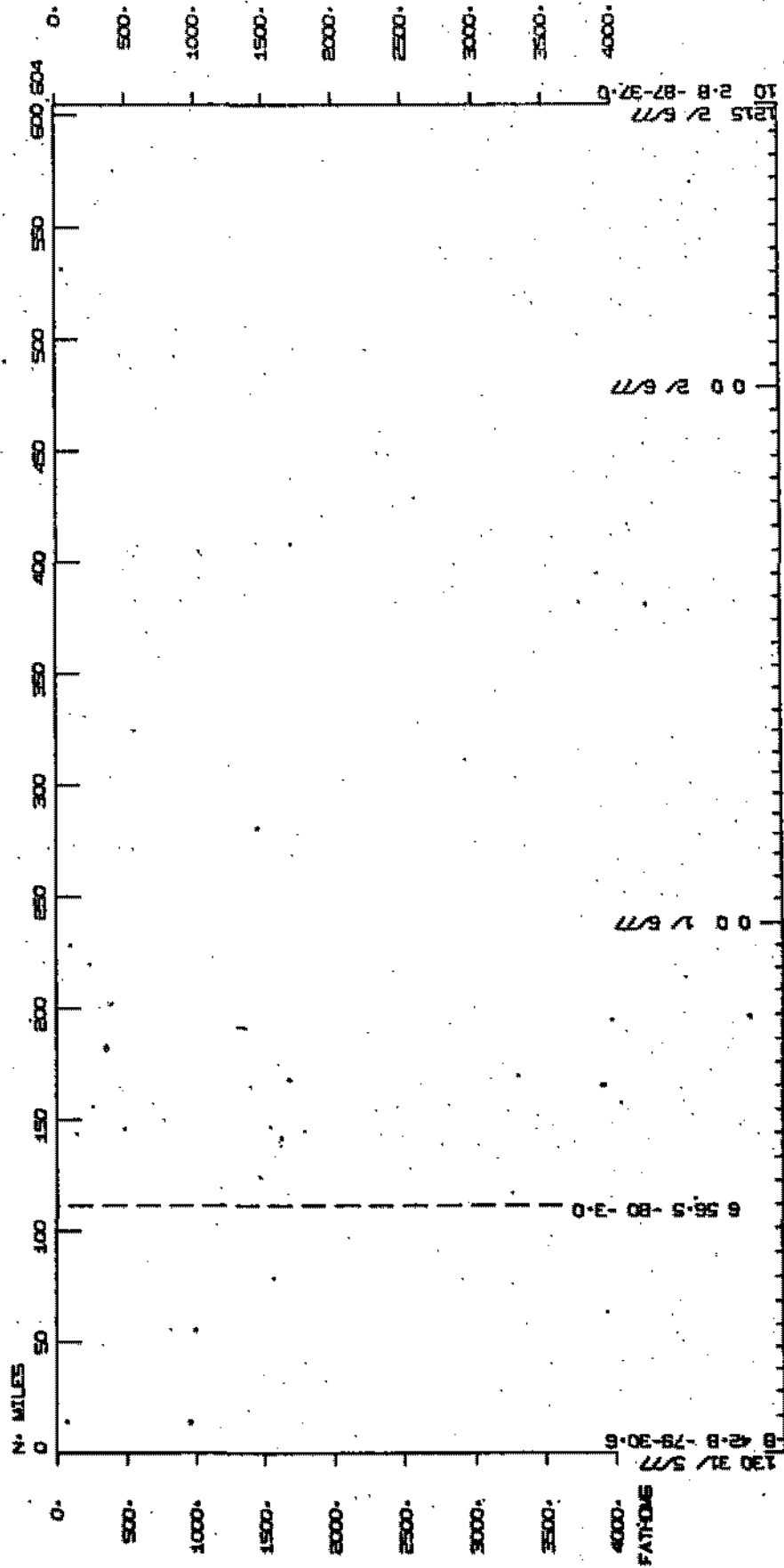
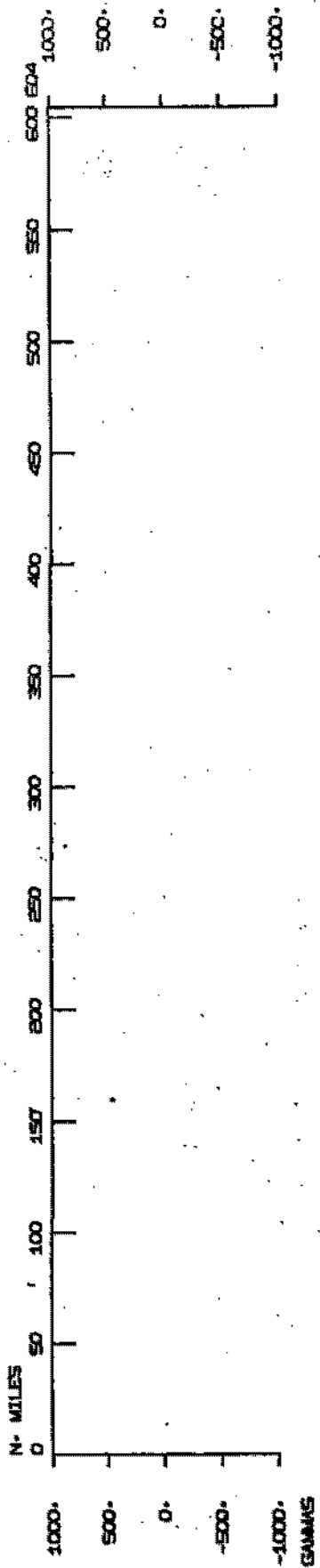


FD7706MV TRACK PLOT (2 OF 2)

MERCATOR PROJECTION, SCALE= 0.312 IN/DEG LONGITUDE



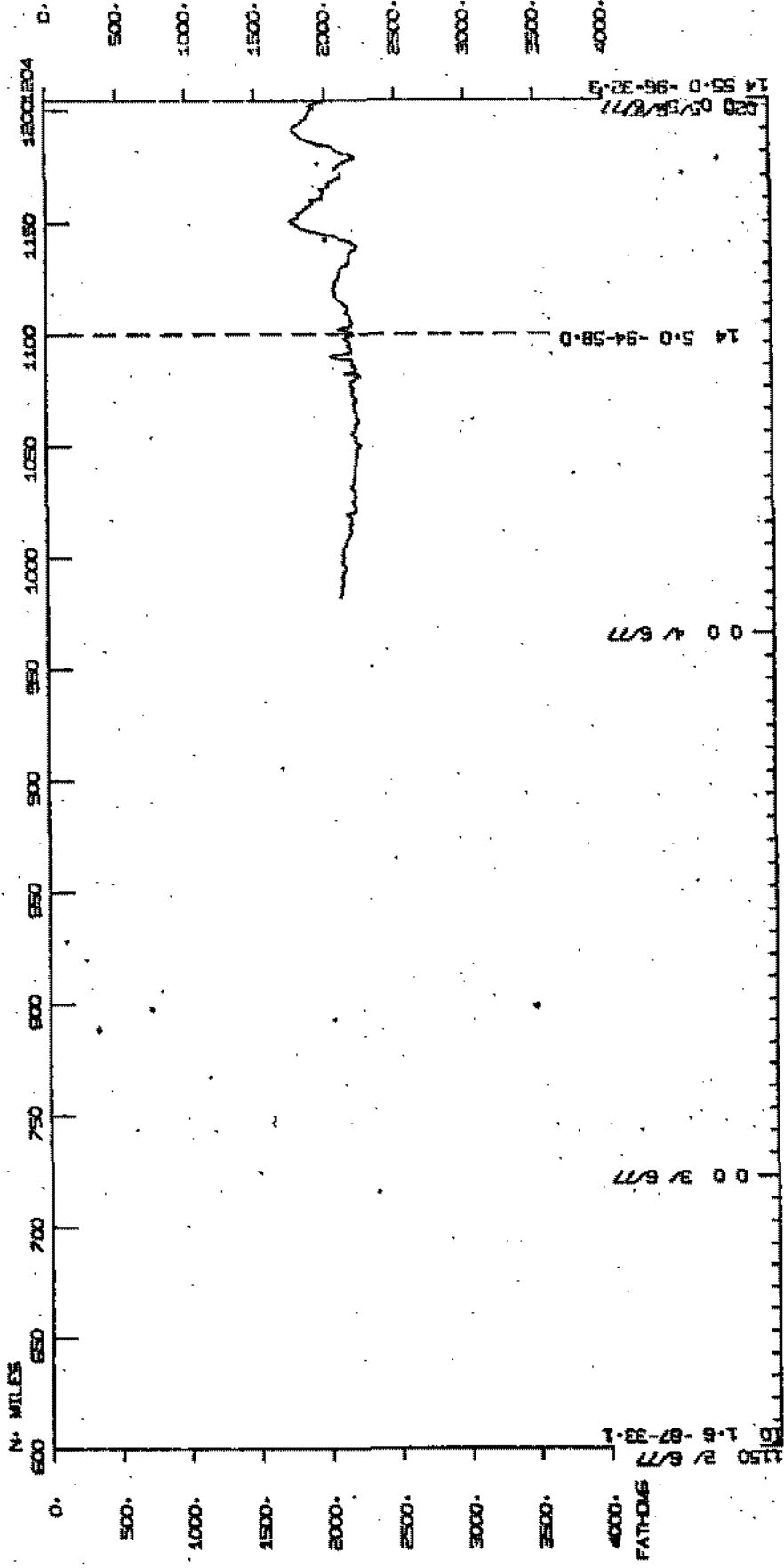
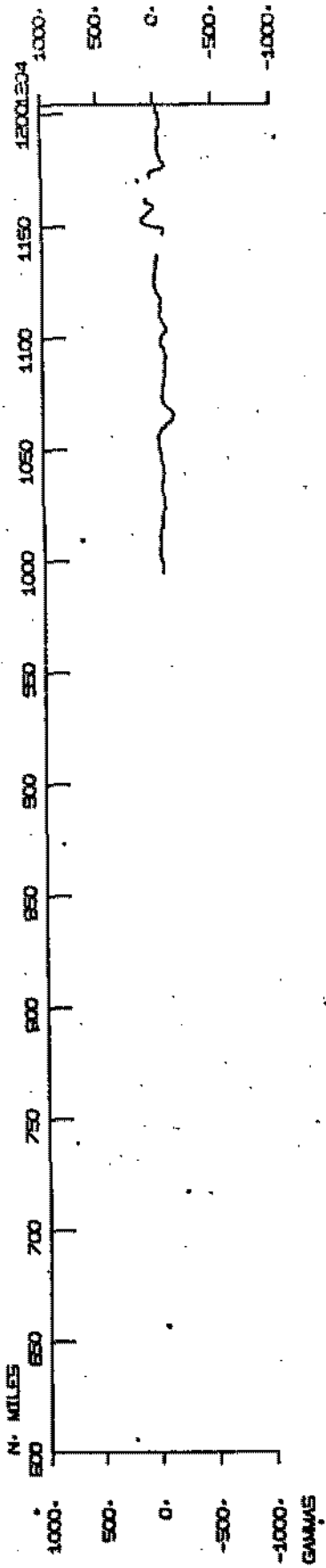
F. DRAKE77 LEG 8



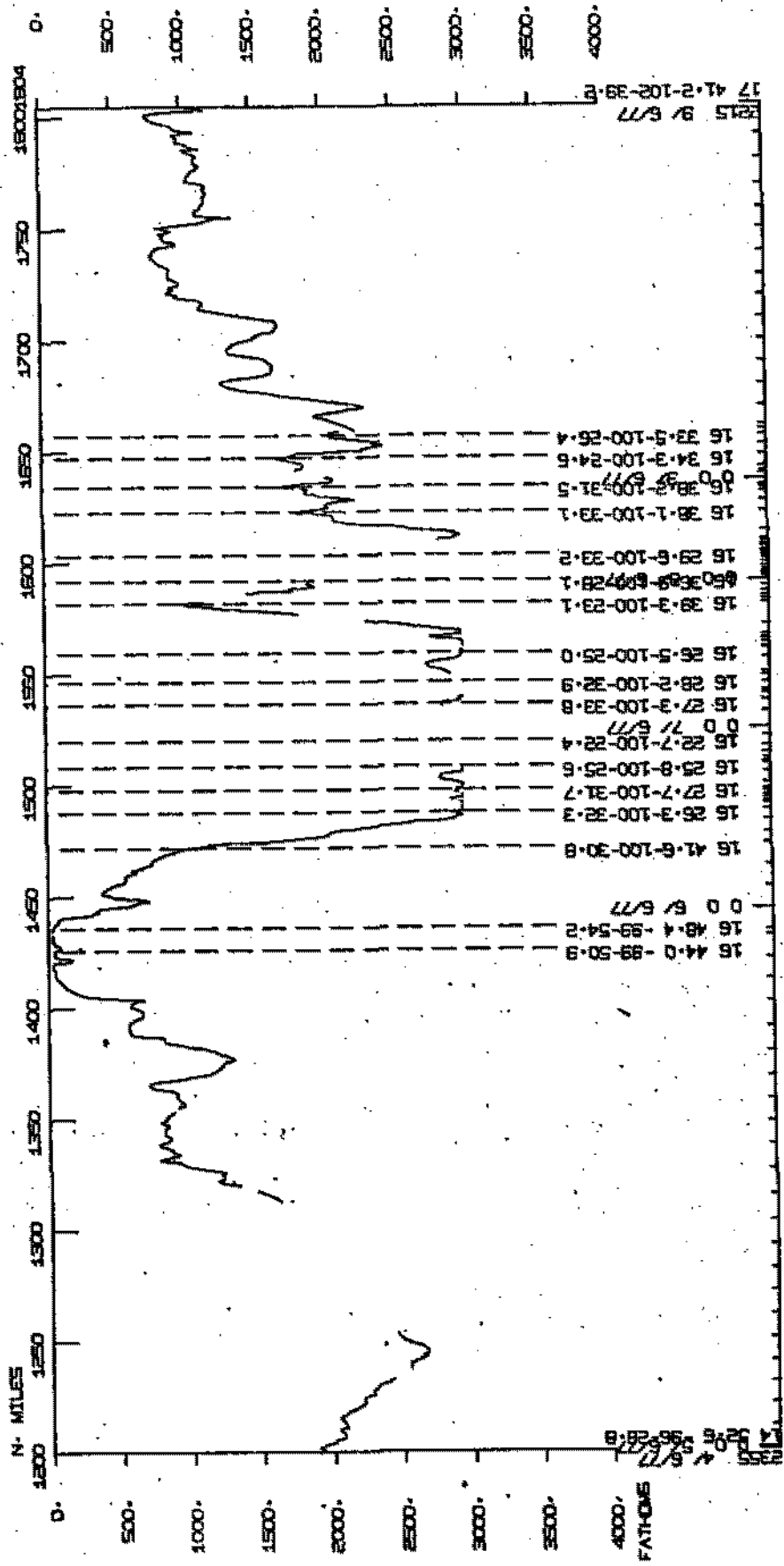
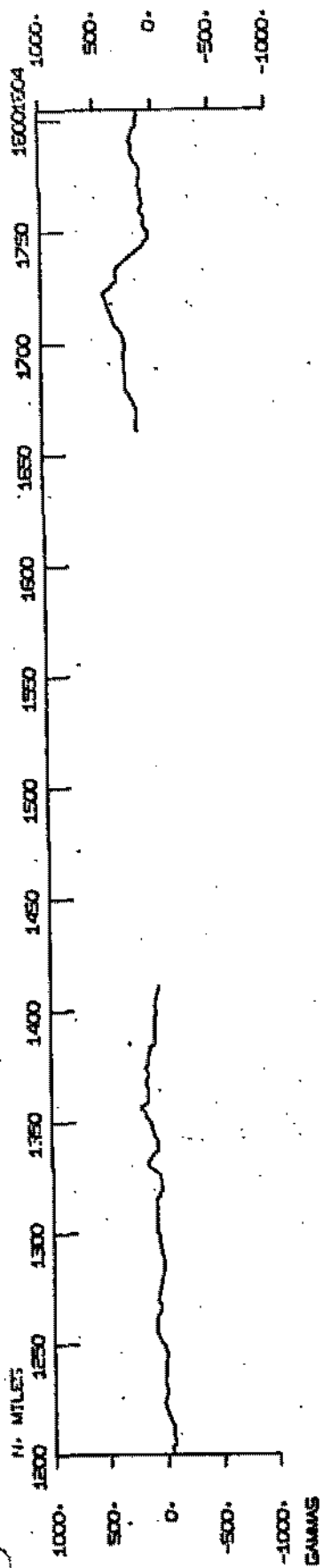
10 2-B-87-37.0
1215 2/677

130 21 577
8 42-B-78-30.6

F. DRAKE 77 LEG 0

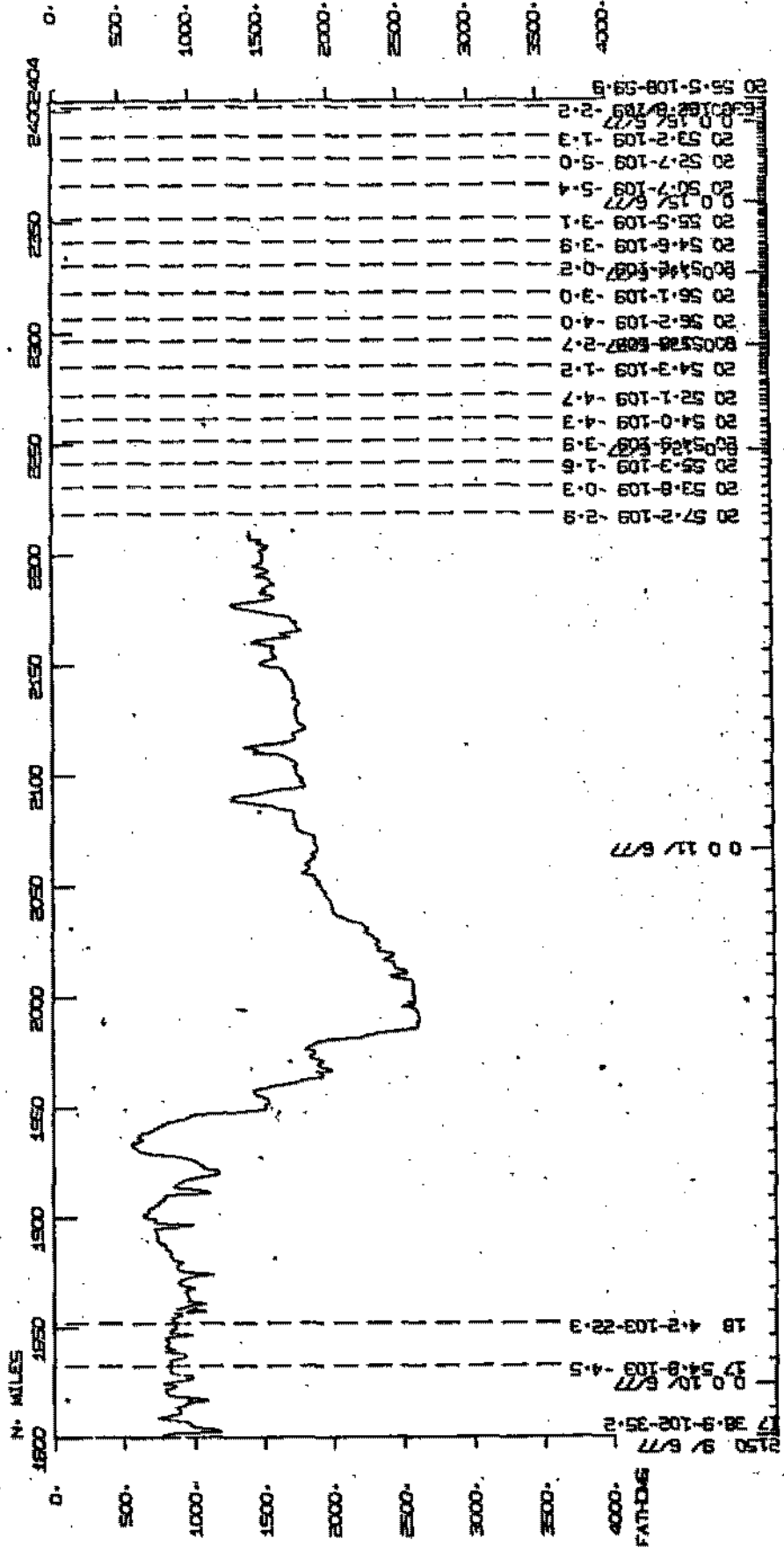
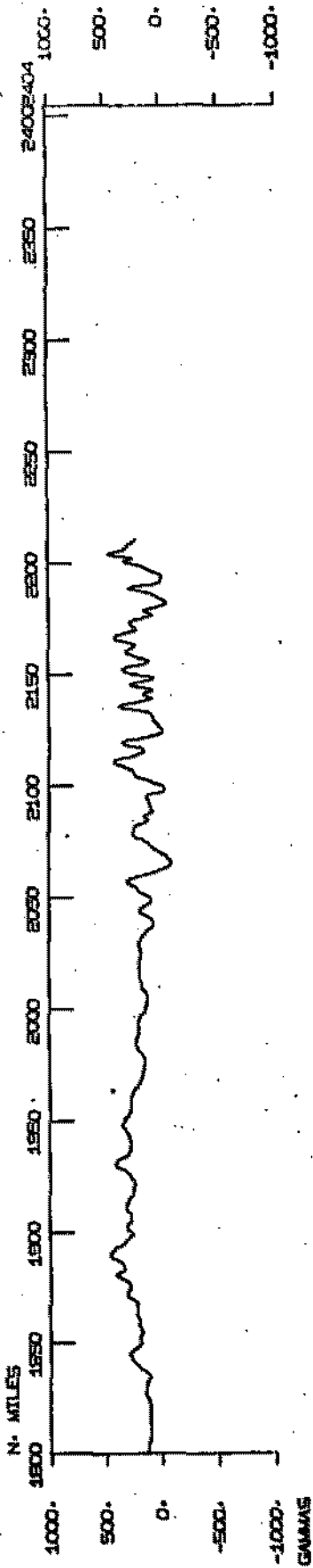


F. DRAKE77 LEG B



17 41-2-102-38-5
725 9/6/77

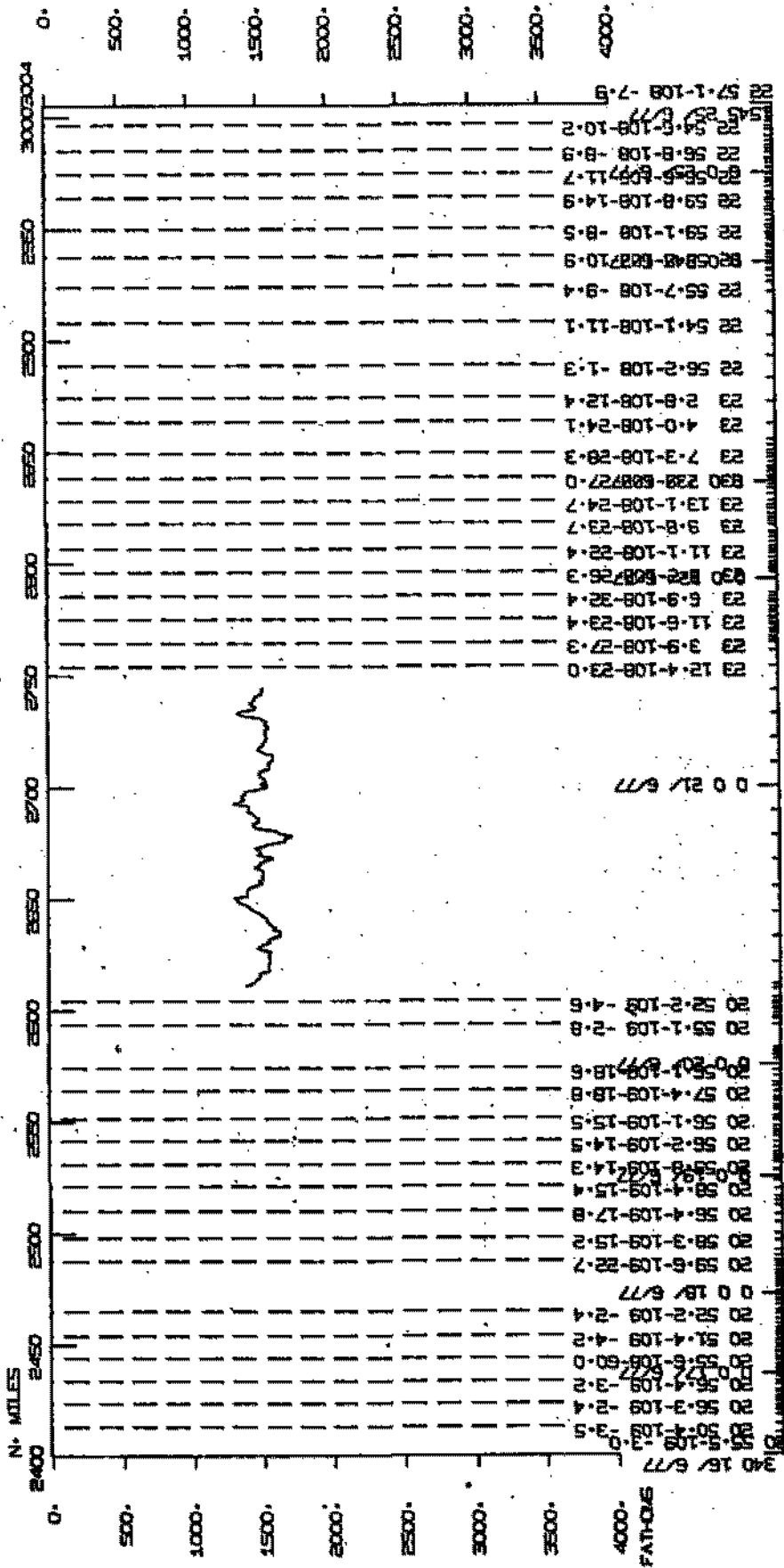
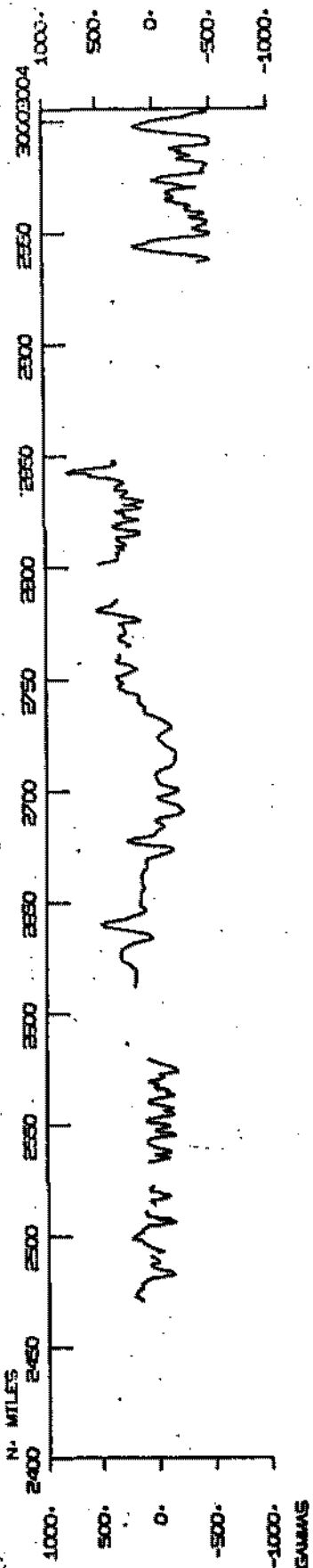
F. DRAKE 77 LEG 5



00 11 677

20	52-2-109	-2.5
21	52-6-109	-0.3
22	52-3-109	-1.6
23	52-4-109	-3.8
24	52-0-109	-4.3
25	52-1-109	-4.7
26	52-3-109	-1.2
27	52-2-109	-2.7
28	52-1-109	-3.0
29	52-4-109	-0.2
30	52-5-109	-3.8
31	52-5-109	-3.1
32	52-7-109	-5.4
33	52-2-109	-1.3
34	52-1-109	-2.2
35	52-5-109	-2.2
36	52-5-109	-2.2

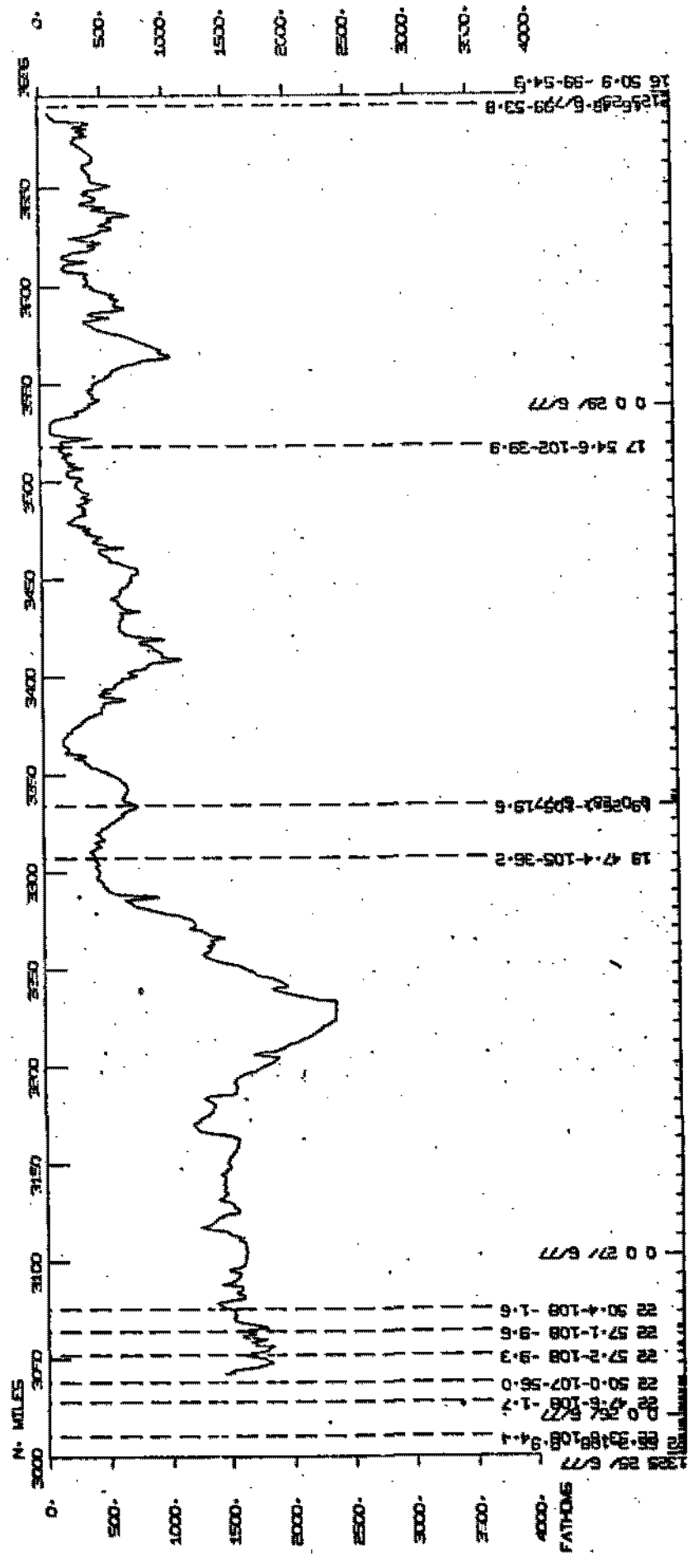
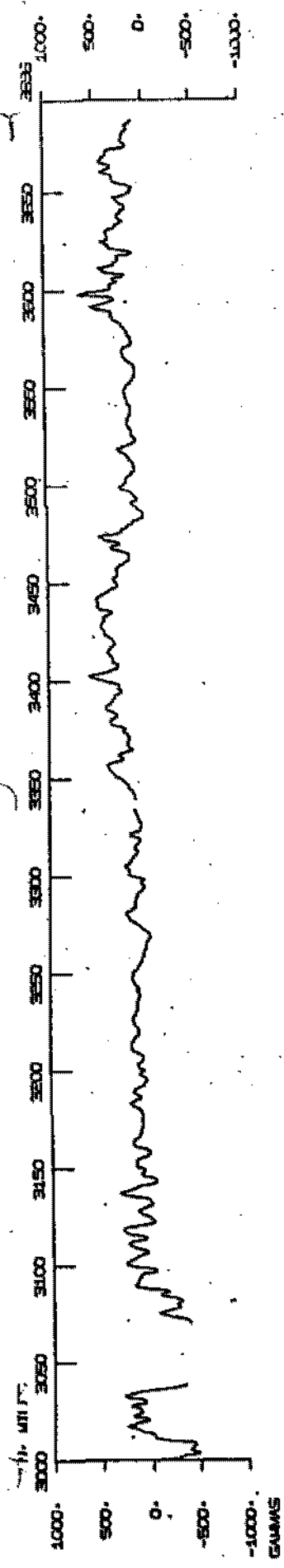
F. DRAKE 77 LEG B



- 29 12-4-108-23.0
- 29 3-9-108-23.3
- 29 11-6-108-23.4
- 29 5-9-108-23.4
- 29 11-1-108-23.4
- 29 9-8-108-23.7
- 29 13-1-108-24.7
- 29 228-228-228-27.0
- 29 7-3-108-28.3
- 29 4-0-108-24.1
- 29 2-8-108-12.4
- 29 56-2-108-1.3
- 29 54-1-108-11.1
- 29 56-7-108-9.4
- 29 058-4-58-710.9
- 29 56-1-108-8.5
- 29 56-8-108-14.9
- 29 058-6-6-11.7
- 29 56-8-108-8.9
- 29 56-1-108-10.2
- 29 5-1-108-7.9

- 29 16-16-677
- 29 5-1-108-1.0
- 29 5-1-108-1.0
- 29 56-3-108-12.4
- 29 56-4-108-12.2
- 29 56-5-108-12.0
- 29 56-6-108-12.0
- 29 56-7-108-12.4
- 29 56-8-108-12.4
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- 29 56-2-108-15.2
- 29 56-4-108-17.8
- 29 56-4-108-15.4
- 29 56-4-108-15.4
- 29 56-8-108-14.3
- 29 56-2-108-14.9
- 29 56-1-108-15.5
- 29 57-4-108-18.8
- 29 56-1-108-18.8
- 29 56-1-108-2.8
- 29 56-2-108-4.6

F. DRAKE 77 LEG B



S.I.O. SAMPLE INDEX

(Issued August 15, 1977)

F. DRAKE 77 EXPEDITION

LEG 6

Balboa, Canal Zone (30 May 1977)
to
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R/V Melville

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by S.I.O. Geological Data Center - S. Smith,
U. Albright, G. Psaropoulos, G. Papadopoulos

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 onshore 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 11AUG77

*** F.DRAKE77 EXPEDITION, LEG 6

(FD7706MV) ***

+-----+-----+-----+-----+-----+-----+-----+

	60E	120E	180	120W	60W	0W	
	'X' = SHIP'S TRACK BY 5 DEGREE SQUARE						
85N							85N
80N					0 0000		80N
75N		0		0 00000	0000000000		75N
70N		0000000000		0000 0 00 0	00000000		70N
65N	0000 00000000000000000000000000	000000000000000000000000000000	000000000000000000000000000000	000000000000000000	00 0000	0	65N
60N	000000000000000000000000000000	000000000000000000000000000000	000000000000000000	00 00			60N
55N	0 00000000000000000000000000	00	0	00000000	000		0 55N
50N	000000000000000000000000000000	0		0000000000	0000		00 50N
45N	0000000000 000000000000000000			000000000000	0		45N
40N	0 00 00 000000000000000000	0		000000000000			40N
35N	0 00000 0000000000000000000	0		0000000000			0 35N
30N	000 000 00000000000000000000000	0		0000000000			00 30N
25N	00000000000 0000000000000000			0000 0			000 25N
20N	00000000 0000 0000 00000		0	X0 00			000 20N
15N	000000000 00 0 00 0			XX00 0			000 15N
10N	0000000000	0 0 0 0		X0			000 10N
5N	00000000000				00000		000 5N
0N	0000000	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	0000 0000000			0		70S
75S	000000000000000000000000000000	000000000000000000000000000000		0	00000	0000	75S
80S	000000000000000000000000000000	000000000000000000000000000000	000000000000000000000000000000	000000000000000000000000000000	00000000	0000000	80S
85S	000000000000000000000000000000	000000000000000000000000000000	000000000000000000000000000000	000000000000000000000000000000	000000000000000000000000000000	000000000000000000000000000000	85S
90S	000000000000000000000000000000	000000000000000000000000000000	000000000000000000000000000000	000000000000000000000000000000	000000000000000000000000000000	000000000000000000000000000000	90S

+-----+-----+-----+-----+-----+-----+-----+

30MAY77 - BALBOA, CANAL ZONE
 TO
 29JUN77 - ACAPULCO, MEXICO

CHIEF SCIENTISTS - SPIESS, F; MPL
 MACDONALD, K. IGP

SHIP - R/V MELVILLE (SIO)

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	
	CU	DP	DT	GC	HC	LB	MG	PE	SO	TD			
DCP	1				4						4	1	8
DTG	1		4			2						1	6
GCR	1	2										1	2
GUC	1	13				1	3	1				1	18
GRD	1			5				5				1	10
GSU	1							1				1	1
IGP	1							1	22			1	23
LMD	1								5			1	5
MPL	1							1				1	1
MPL	1							7				1	7
ORD	1							2				1	2
SCG	1							1				1	1
SIO	1							8				1	8
TOTAL	1	2	13	4	5	4	3	3	27	27	4	1	92

SAMPLE 'TYPE' CODES USED ABOVE

- CU = CORE (SEE ALSO TYPE DH**)
- DP = DEPTH
- DT = DEEP TOWED INSTRUMENT PACKAGE (MPL PROJECT)
- GC = GEOCHEMICAL SAMPLING
- HC = HYDROGRAPHIC CAST
- LB = LOG BOOKS
- MG = MAGNETICS (TOWED VEHICLE, SURFACE, TOTAL FIELD)
- PE = PERSONNEL IN SCIENTIFIC PARTY
- SO = SEA QUAKE RECORDING
- TD = SALINITY/TEMPERATURE/DEPTH (STD)

SAMPLE 'DISP' CODES USED ABOVE

- DCP = DATA COLLECTION, PROCESSING GROUP -- F. WILKES (EXT. 36681)
- DTG = DEEP TOW GROUP (MAR. PHYSICAL LAB) -- J. MUDIE (EXT. 2850)
- GCR = GEOLOGICAL CURATING FACILITY -- W. RIEDEL, (EXT. 4386)
- GUC = GEOLOGICAL DATA CENTER -- S. SMITH (EXT. 2752)
- GRD = GEOLOGICAL RESEARCH DIVISION (EXT. 3360)
- GSU = U.S. GEOLOGICAL SURVEY
- GSU = D. BUKRY, M.C. MARSHALL
- IGP = INSTITUTE GEOPHYSICS AND PLANETARY PHYSICS, LA JOLLA
- LMD = LEROY M. LORMAN (EXT. 2406)
- MPL = MARINE PHYSICAL LAB. (EXT 2305)
- ORD = OCEAN RESEARCH DIVISION
- SCG = SHIPBOARD COMPUTER GROUP (EXT. 4195)
- SIO = SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CAL. 92093.

F.DRAKE77 EXPEDITION, LEG 6

FD7706MV

*** PORTS ***

2345 30 577	LGPT B BALBOA, CANAL ZONE	8 43S	79 304W	S	FD7706MV
1530 29 677	LGPT E ACAPULCO, MEXICO	16 509N	99 537W	S	FD7706MV
2210 5 677	LGUS B ACAPULCO, MEXICO	16 497N	99 534W	S	FD7706MV
2255 5 677	LGUS E ACAPULCO, MEXICO	16 504N	99 534W	S	FD7706MV

PERSONNEL

PECS	SPIESS, F.	MPL	FD7706MV
PECS	MACDONALD, K.	IGP	FD7706MV
PECT	MOE, R.	SCG	FD7706MV
PERT	LINGLEY, R.	GDC	FD7706MV
PES	ALAEANDER, C.	SIO	FD7706MV
PE	BENSON, M.	MPL	FD7706MV
PE	ODATRIGHT, F.	GRD	FD7706MV
PE	BOEGEMAN, T.	MPL	FD7706MV
PE	BOS, D.	ORD	FD7706MV
PES	CRANE, K.	SIO	FD7706MV
PES	HARVIE, W.	SIO	FD7706MV
PES	HAYMON, R.	SIO	FD7706MV
PE	HOLLINSHEAD, C.	GRD	FD7706MV
PE	JAIN, J.	ORD	FD7706MV
PE	JORDAN, T.	GRD	FD7706MV
PES	KASTENS, K.	SIO	FD7706MV
PES	LEGG, M.	SIO	FD7706MV
PE	LUPTON, J.	GRD	FD7706MV
PE	MILLER, S.	MPL	FD7706MV
PE	NORMARK, W.	GSJ	FD7706MV
PE	PAVLICEK, V.	MPL	FD7706MV
PE	POOLE, K.	MPL	FD7706MV
PE	ROGERS, J.	MPL	FD7706MV
PE	SCHMITT, J.	MLP	FD7706MV
PES	SHIH, J.	SIO	FD7706MV
PES	SILVER, P.	SIO	FD7706MV
PE	WILLOUGHBY, D.	GRD	FD7706MV

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

TIME DATE TIME TZ SAMP DISP
GMT U.M.Y. LOC LWC CODE SAMPLE IDENT. CODE LAT. LONG.

UNDERWAY DATA CURATOR - STUART SMITH (EXT.2752)

*** LOG BOOKS ***

200 4 677	LBUW B GEOPHYSICAL LOG BOOK	GDC 13 89N 93 129W S	FD7706MV
1454 29 677	LBUW E GEOPHYSICAL LOG BOOK	GDC 16 486N 99 553W S	FD7706MV
122 4 677	LBDT B DEEP-TOW LOG BOOK 1	DTG 13 70N 93 97W S	FD7706MV
658 25 677	LBDT E DEEP-TOW LOG BOOK 1	DTG 22 574N 108 106W S	FD7706MV
704 25 677	LBDT B DEEP-TOW LOG BOOK 2	DTG 22 573N 108 108W S	FD7706MV
247 28 677	LBDT E DEEP-TOW LOG BOOK 2	DTG 19 280N 105 212W S	FD7706MV

*** FATHOGRAMS ***

200 4 677	DPR3 B GDR 3.5KHZ R-01	GDC 13 89N 93 129W S	FD7706MV
2150 5 677	DPR3 E GDR 3.5KHZ R-01	GDC 16 479N 99 529W S	FD7706MV
2309 5 677	DPR3 B GDR 3.5KHZ R-02	GDC 16 488N 99 536W S	FD7706MV
618 6 677	DPR3 E GDR 3.5KHZ R-02	GDC 16 278N 100 323W S	FD7706MV
1407 6 677	DPR3 B GDR 3.5KHZ R-03	GDC 16 281N 100 313W S	FD7706MV
2016 7 677	DPR3 E GDR 3.5KHZ R-03	GDC 16 389N 100 233W S	FD7706MV
2212 7 677	DPR3 B GDR 3.5KHZ R-04	GDC 16 357N 100 237W S	FD7706MV
22 8 677	DPR3 E GDR 3.5KHZ R-04	GDC 16 368N 100 280W S	FD7706MV
1608 8 677	DPR3 B GDR 3.5KHZ R-05	GDC 16 264N 100 346W S	FD7706MV
1143 9 677	DPR3 E GDR 3.5KHZ R-05	GDC 16 492N 100 596W S	FD7706MV
1146 9 677	DPR3 B GDR 3.5KHZ R-06	GDC 16 495N 101 1W S	FD7706MV
1656 10 677	DPR3 E GDR 3.5KHZ R-06	GDC 19 110N 105 388W S	FD7706MV
1658 10 677	DPR3 B GDR 3.5KHZ R-07	GDC 19 112N 105 391W S	FD7706MV
1426 11 677	DPR3 E GDR 3.5KHZ R-07	GDC 20 529N 108 553W S	FD7706MV
1555 20 677	DPR3 B GDR 3.5KHZ R-08	GDC 20 554N 109 35W S	FD7706MV
357 21 677	DPR3 E GDR 3.5KHZ R-08	GDC 23 31N 108 288W S	FD7706MV
1124 26 677	DPR3 B GDR 3.5KHZ R-09	GDC 22 515N 107 592W S	FD7706MV
322 28 677	DPR3 E GDR 3.5KHZ R-09	GDC 19 284N 105 217W S	FD7706MV
333 28 677	DPR3 B GDR 3.5KHZ R-10	GDC 19 285N 105 218W S	FD7706MV
1447 29 677	DPR3 E GDR 3.5KHZ R-10	GDC 16 487N 99 564W S	FD7706MV

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
206	4	677		DPRT B	GDK 12KHZ R-01	GDC 13	94N	93 138W	S FD7706MV
651	5	677		DPRT E	GDR 12KHZ R-01	GDC 15	278N	97 311W	S FD7706MV
814	5	677		DPRT B	GDR 12KHZ R-02	GDC 15	340N	97 446W	S FD7706MV
1006	6	677		DPRT E	GDK 12KHZ R-02	GDC 16	273N	100 323W	S FD7706MV
1816	7	677		DPRT B	GDR 12KHZ R-03	GDC 16	321N	100 255W	S FD7706MV
2106	7	677		DPRT E	GDR 12KHZ R-03	GDC 16	375N	100 230W	S FD7706MV

*** MAGNETOMETER ***

314	4	677		MGR B	MAGNETICS R-01	GDC 13	156N	93 243W	S FD7706MV
1427	11	677		MGR E	MAGNETICS R-01	GDC 20	530N	108 554W	S FD7706MV
2206	17	677		MGR B	MAGNETICS R-02	GDC 20	521N	109 63W	S 6D770 4V
408	19	677		MGR E	MAGNETICS R-02	GDC 20	580N	109 159W	S FD7706MV
415	19	677		MGR B	MAGNETICS R-03	GDC 20	579N	109 161W	S FD7706MV
1430	29	677		MGR E	MAGNETICS R-03	GDC 16	490N	99 597W	S FD7706MV

*** CORES ***

933	14	677		COG	FD77-G001	2627M	GCR 20	552N 109 30W	S FD7706MV
1919	26	677		COG	FD77-G002	2994M	GCR 22	571N 108 87W	S FD7706MV

DEEP TOW SURVEY CURATOR JOHN MUDIE. (EXT.2850)

22	7	677		DTS B	DEEP-TOW TRAVERSE-01	DTG 16	242N	100 240W	S FD7706MV
1608	8	677		DTS E	DEEP-TOW TRAVERSE-01	DTG 16	264N	100 346W	S FD7706MV
1425	11	677		DTS B	DEEP-TOW SITE NO. 1	DTG 20	529N	108 551W	S FD7706MV
1555	20	677		DTS E	DEEP-TOW SITE NO. 1	DTG 20	554N	109 35W	S FD7706MV
0341	21	677		DTS B	DEEP-TOW SITE NO. 2	DTG 22	592N	108 295W	F FD7706MV
1106	26	677		DTS E	DEEP-TOW SITE NO. 2	DTG 22	505N	107 570W	S FD7706MV
0	28	677		DTS B	DEEP-TOW TRAVERSE-02	DTG 19	261N	105 197W	S FD7706MV
335	28	677		DTS E	DEEP-TOW TRAVERSE-02	DTG 19	286N	105 218W	S FD7706MV

GEOCHEMICAL SAMPLE

1420	12	677		GCS B	SPECIAL SAMPLE	GRD 20	544N	109 48W	S FD7706MV
700	13	677		GCS E	SPECIAL SAMPLE	GRD 20	544N	109 16W	S FD7706MV

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
840	13	677		GCS	B SPECIAL SAMPLE	GRD 20	555N	109 24W	S FD7706MV
600	14	677		GCS	E SPECIAL SAMPLE	GRD 20	526N	109 21W	S FD7706MV
1330	16	677		GCS	B SPECIAL SAMPLE	GRD 20	557N	109 18W	S FD7706MV
1620	17	677		GCS	E SPECIAL SAMPLE	GRD 20	531N	109 28W	S FD7706MV
630	20	677		GCS	B SPECIAL SAMPLE	GRD 20	549N	109 32W	S FD7706MV
1100	21	677		GCS	E SPECIAL SAMPLE	GRD 23	76N	108 248W	S FD7706MV
2100	23	677		GCS	B SPECIAL SAMPLE	GRD 22	577N	108 99W	S FD7706MV
1050	26	677		GCS	E SPECIAL SAMPLE	GRD 22	504N	107 566W	S FD7706MV

SEA QUAKE BOTTOM SEISMOMETER

643	6	677		SQBS	B DROP OBS 'DENI'	LMD 16	279N	100 329W	S FD7706MV
825	7	677		SQBS	E RCVR OBS 'DENI'	LMD 16	271N	100 322W	S FD7706MV
245	7	677		SQBS	B DROP OBS 'GWEN'	LMD 16	284N	100 328W	S FD7706MV
1440	7	677		SQBS	B DROP OBS 'INEZ'	LMD 16	264N	100 270W	S FD7706MV
35	9	677		SQBS	B DROP OBS 'DNE'	LMD 16	351N	100 324W	S FD7706MV
626	9	677		SQBS	B DROP OBS 'DENI'	LMD 16	332N	100 262W	S FDT706MV

SEA QUAKE SURVEY

448	5	677		SQS	SONOBUOY-01	IGP 15	185N	97 113W	S FD7706MV
1616	5	677		SQS	SONOBUOY-02	IGP 16	130N	99 51W	S FD7706MV
830	7	677		SQS	SONOBUOY-03	IGP 16	269N	100 322W	S FD7706MV
701	8	677		SQS	SONOBUOY-04	IGP 16	326N	100 339W	S FD7706MV
1523	11	677		SQS	SONOBUOY-05	IGP 20	552N	108 596W	S FD7706MV
115	12	677		SQS	SONOBUOY-06	IGP 20	541N	109 28W	S FD7706MV
757	12	677		SQS	SONOBUOY-07	IGP 20	521N	109 32W	S FD7706MV
2310	14	677		SQS	SONOBUOY-08	IGP 20	554N	109 18W	S FD7706MV
2250	15	677		SQS	SONOBUOY-09	IGP 20	513N	109 45W	S FD7706MV
505	21	677		SQS	SONOBUOY-10	IGP 23	124N	108 230W	S FD7706MV
715	21	677		SQS	SONOBUOY-11	IGP 23	40N	108 273W	S FD7706MV
1943	21	677		SQS	X SONOBUOY-12	IGP 23	75N	108 305W	S FD7706MV
2013	21	677		SQS	SONOBUOY-13	IGP 23	75N	108 306W	S FD7706MV
2313	21	677		SQS	SONOBUOY-14	IGP 23	92N	108 287W	S FD7706MV
1500	22	677		SQS	SONOBUOY-15	IGP 23	96N	108 237W	S FD7706MV
2015	22	677		SQS	SONOBUOY-16	IGP 23	131N	108 247W	S FD7706MV
1845	23	677		SQS	SONOBUOY-17	IGP 22	562N	108 92W	S FD7706MV
1950	23	677		SQS	SONOBUOY-18	IGP 22	579N	108 83W	S FD7706MV
2113	23	677		SQS	SONOBUOY-19	IGP 22	576N	108 99W	S FD7706MV
2258	24	677		SQS	X SONOBUOY-20	IGP 22	558N	108 106W	S FD7706MV
1710	25	677		SQS	SONOBUOY-21	IGP 22	559N	108 56W	S FD7706MV

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1838	25	677		SQS	SONOBUOY-22	IGP 22	549N 108	42W S	FD7706MV
1935	25	677		SQS	SONOBUOY-23	IGP 22	534N 108	48W S	FD7706MV
2030	25	677		SQS	X SONOBUOY-24	IGP 22	531N 108	71W S	FD7706MV
353	26	677		SQS	SONOBUOY-25	IGP 22	475N 108	25W S	FD7706MV

HYDROGRAPHIC CAST

1210	6	677		HCNI	T ONI	DCP 16	280N 100	318W S	FD7706MV
2241	14	677		HCNI	T ONI	DCP 20	552N 109	20W S	FD7706MV
15	22	677		HCNI	T ONI	DCP 23	88N 108	287W S	FD7706MV
1451	26	677		HCNI	T ONI	DCP 22	558N 108	61W S	FD7706MV

CONDUCTIVITY, TEMPERATURE, DEPTH

1210	6	677		TDCT	CTD 01	5000W S02	DCP 16	280N 100	318W S	FD7706MV
2241	14	677		TDCT	CTD 02	2566W S20	DCP 20	552N 109	20W S	FD7706MV
15	22	677		TDCT	CTD 03	2300W S02	DCP 23	88N 108	287W S	FD7706MV
1451	26	677		TDCT	CTD 04	3280W S20	DCP 22	558N 108	61W S	FD7706MV

9900

END SAMPLE INDEX

FD7706MV