

INFORMAL REPORT AND INDEX OF
NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA

(Issued November 1984)

PROTEA EXPEDITION

LEG 5

Cape Town, South Africa (14 January 1984)
to
Cape Town, South Africa (15 February 1984)

R/V Melville

Chief Scientist - R. L. Fisher

Resident Marine Tech - R. Cozer

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

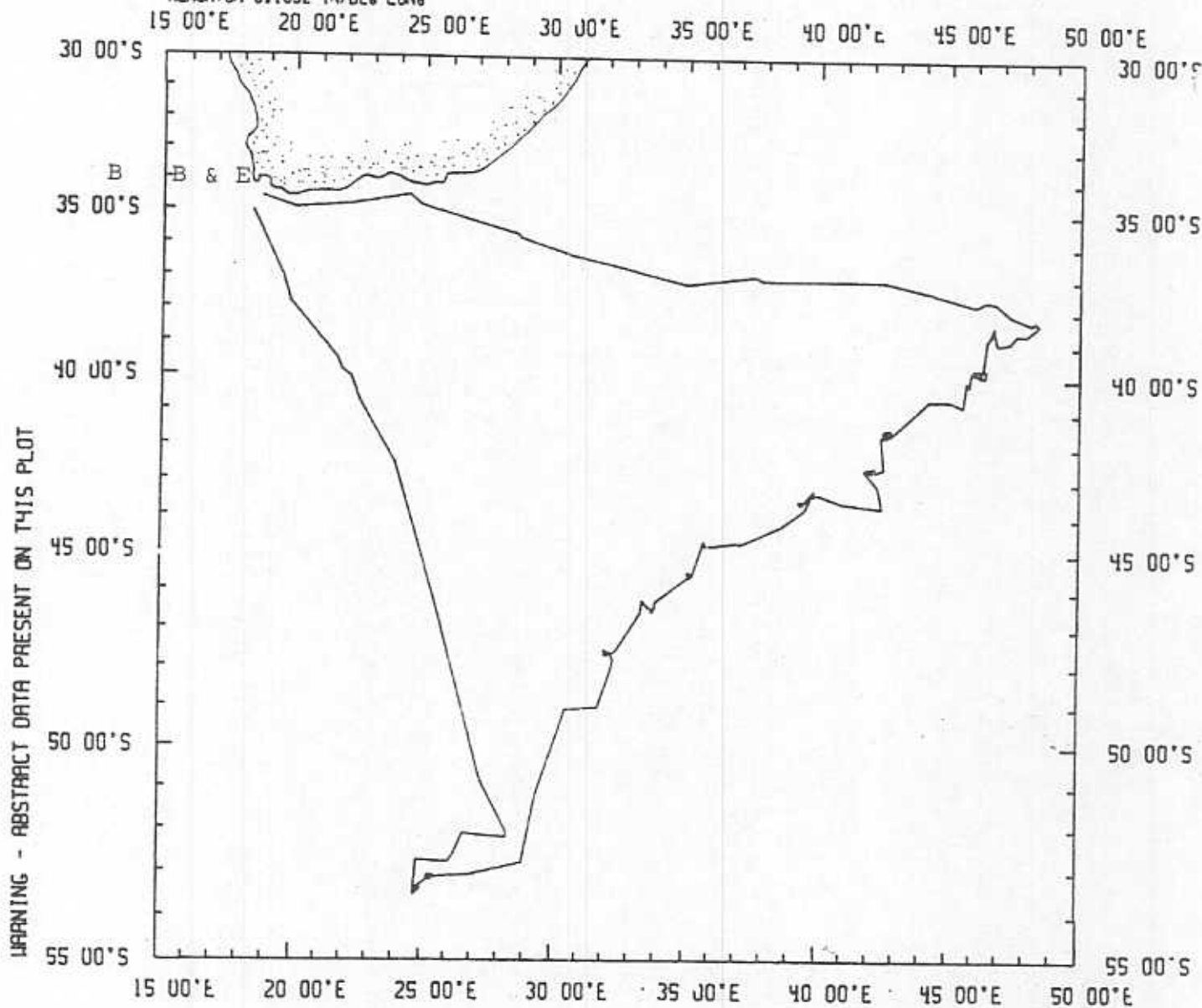
Data Collection Funded by NSF
Grant Number NSF OCE80-24472 and OCE83-17741
Data Processing Funded by SIA and NSF

NOTE: This is an index of underway geophysical data edited and processed 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 chief scientist or the Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093.

GDC Cruise I.D.# 212

PROTEA - LEG FIVE TRACK

MEASUREMENT 0.1632 IN/DEG LONG



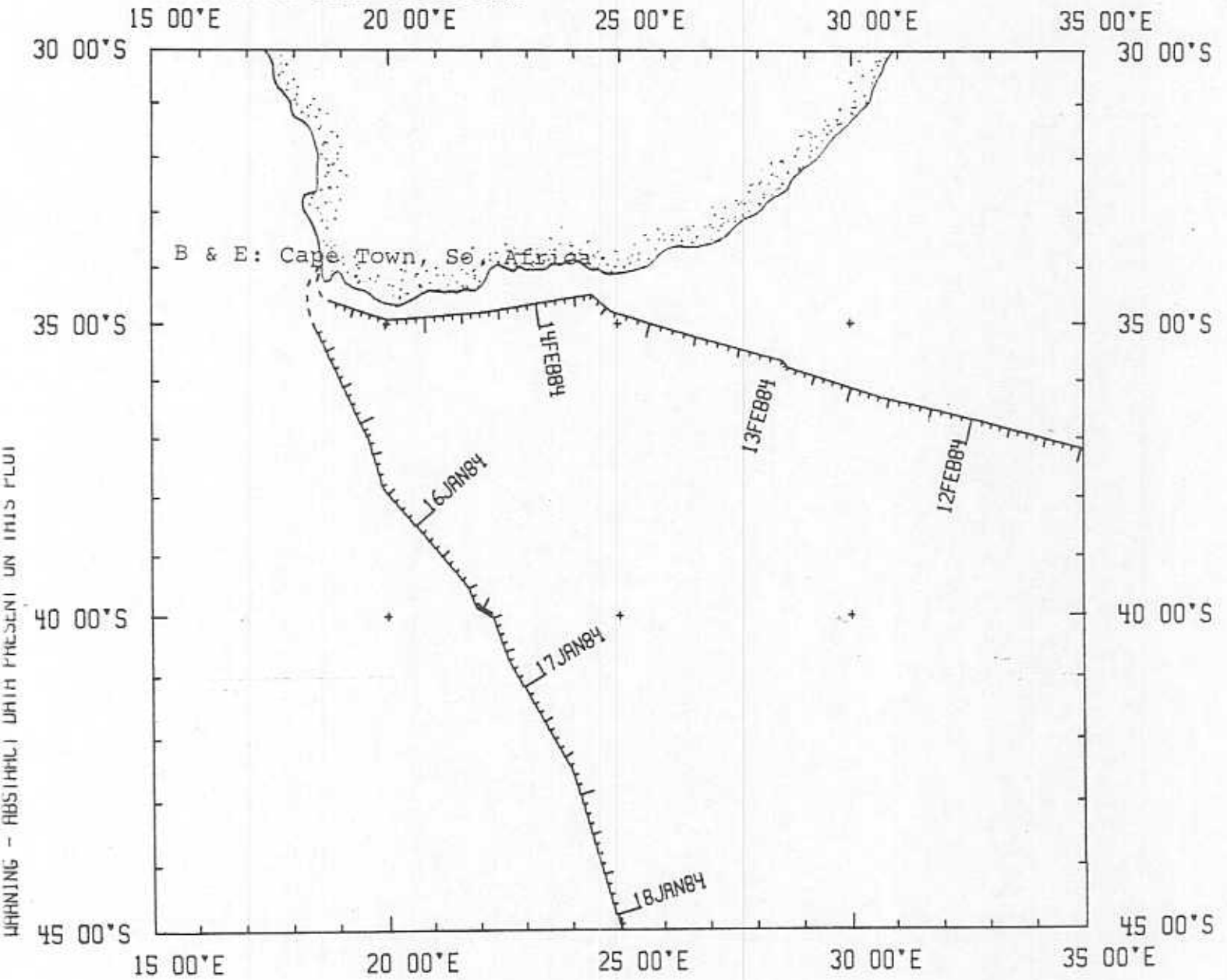
PROTEA EXPEDITION LEG 5

CHIEF SCIENTIST: R. L. Fisher
PORTS: Cape Town - Cape Town, South Africa
DATES: 14 January - 15 February 1984
SHIP: R/V Melville

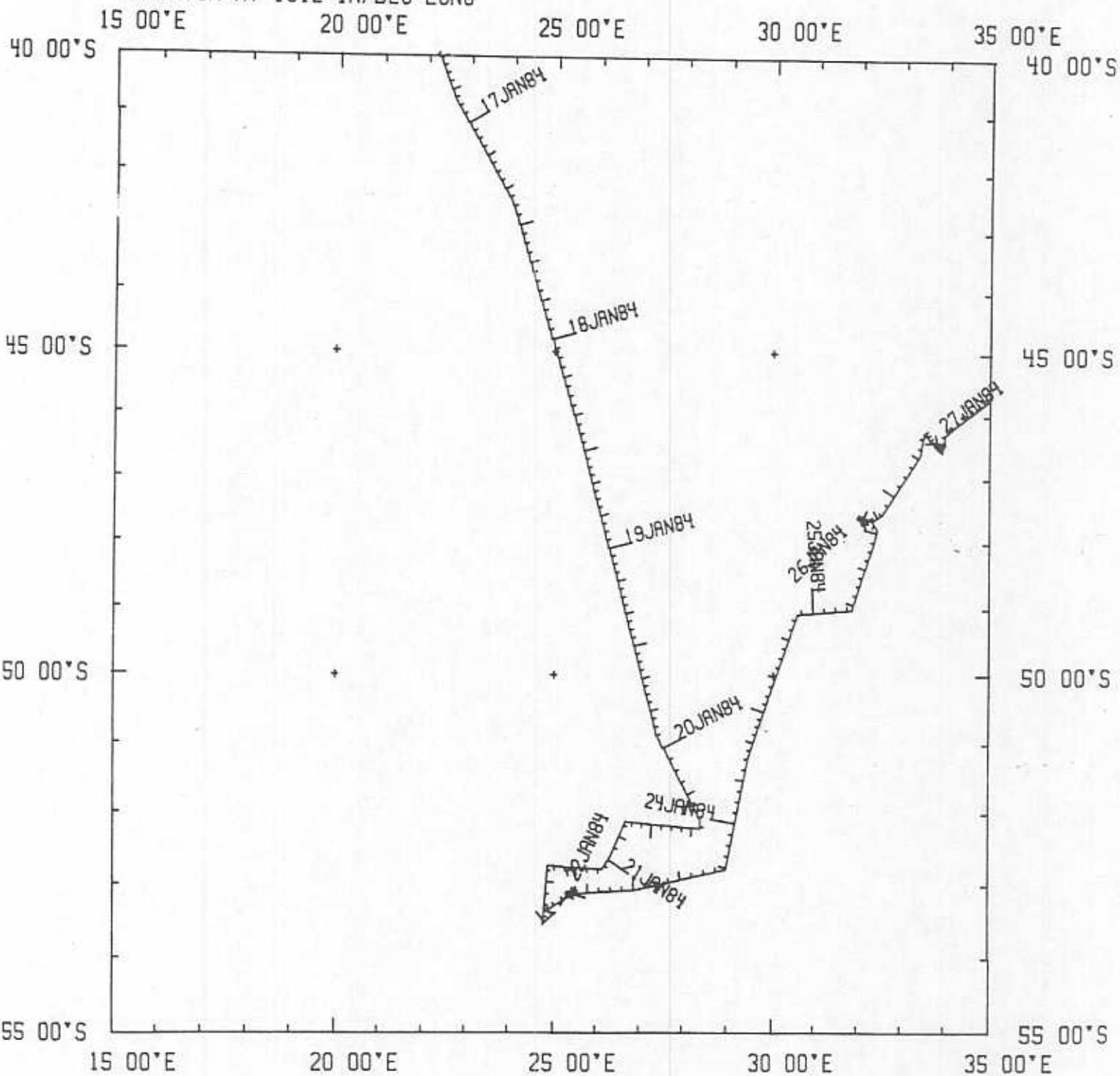
TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

- 1) Cruise - 5262 miles
- 2) Bathymetry - 5027 miles
- 3) Magnetics - 4277 miles
- 4) Seismic Reflection - 2855 miles
- 5) Gravity - none collected
- 6) SeaBeam - (on R/V Thomas Washington only)

PROTOSMV
TRACK PLOT 1 OF 4
MERCATOR AT .312 IN/DEG LONG



PROTOSMV
TRACK PLOT 2 OF 4
MERCATOR AT .312 IN/DEG LONG

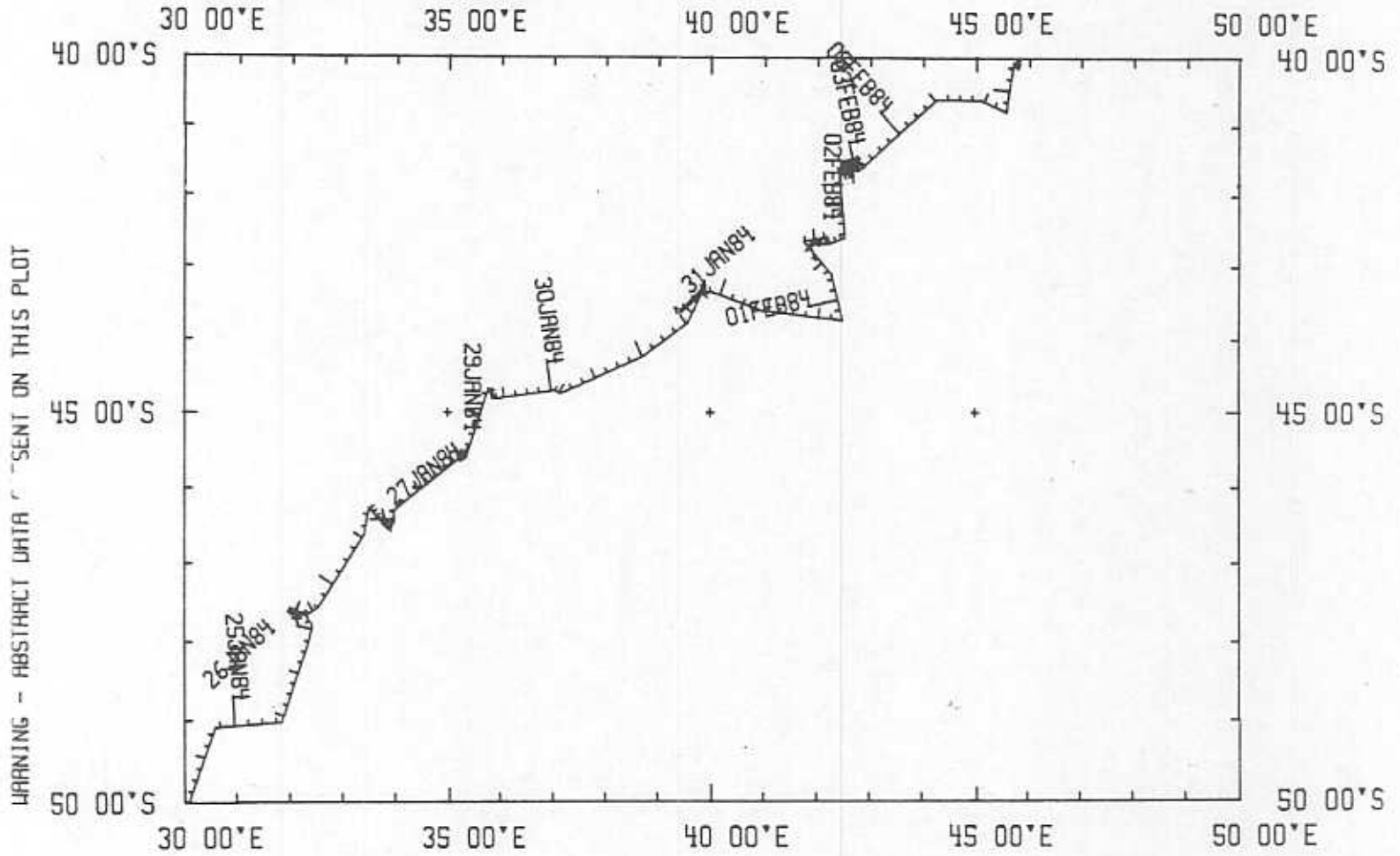


WARNING - DISTANCE DATA PRESENT ON THIS PLOT

PROTOSMV

TRACK PLOT 3 OF 4

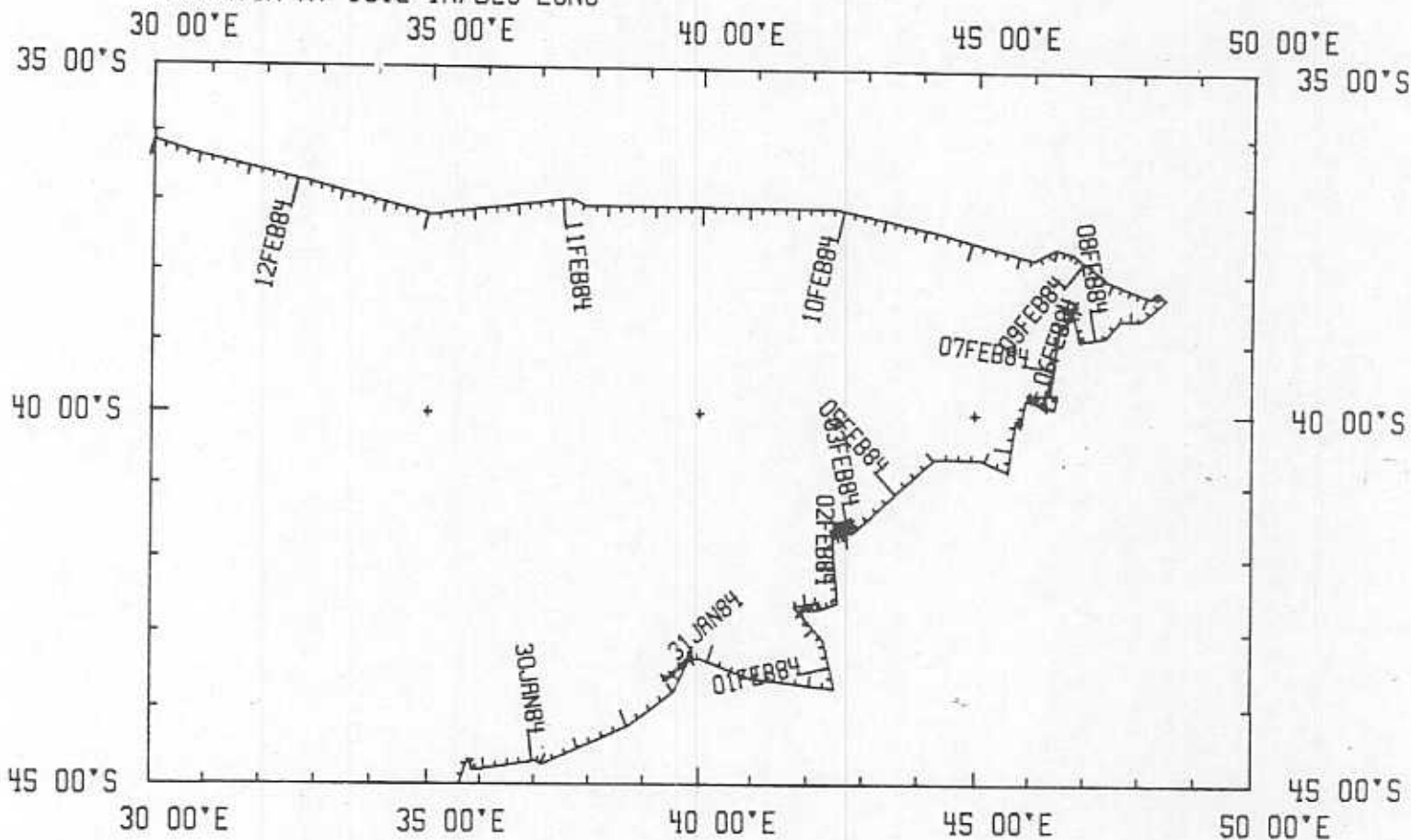
MERCATOR AT .312 IN/DEG LONG



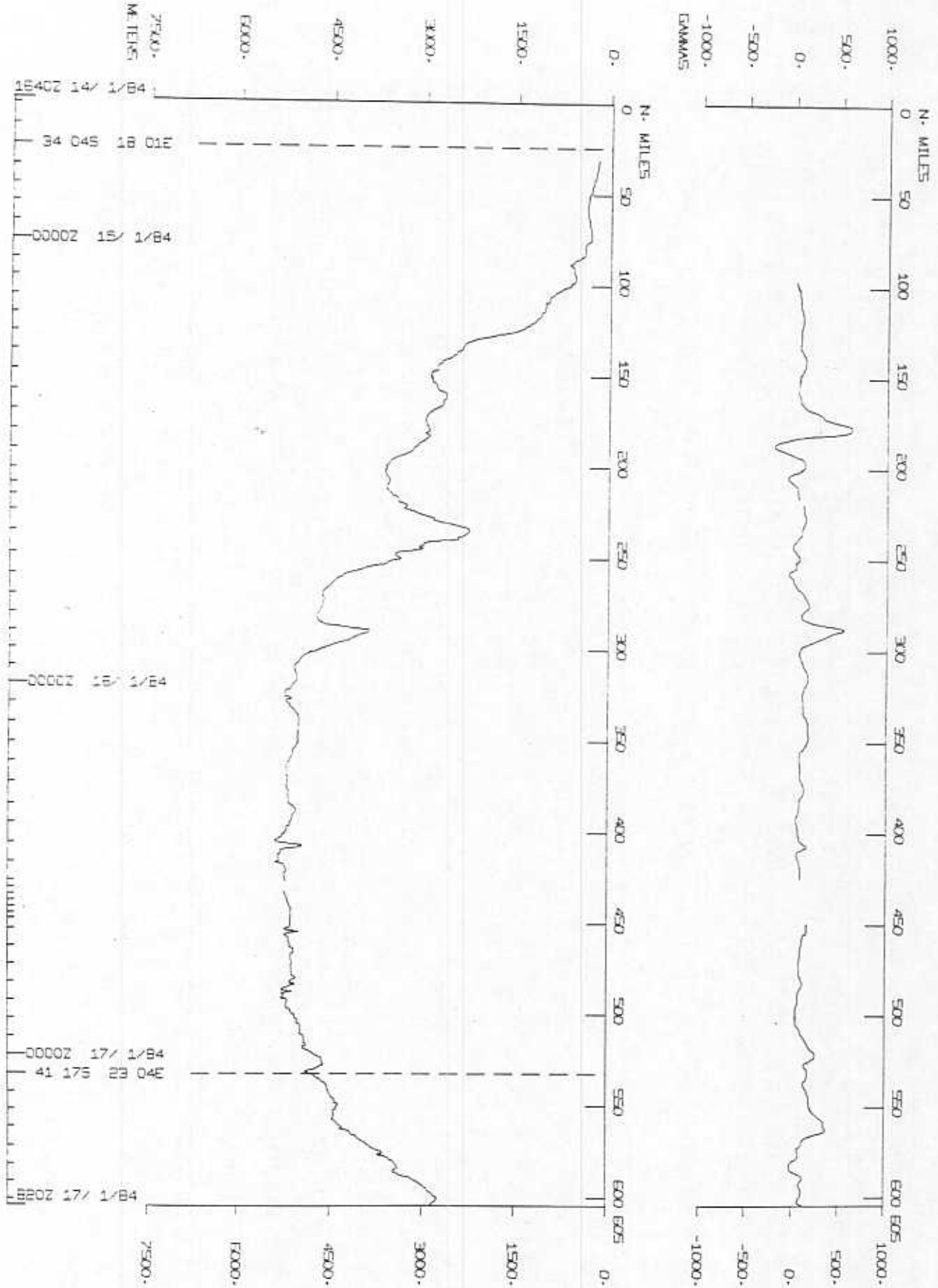
PROTOSMV

TRACK PLOT 4 OF 4

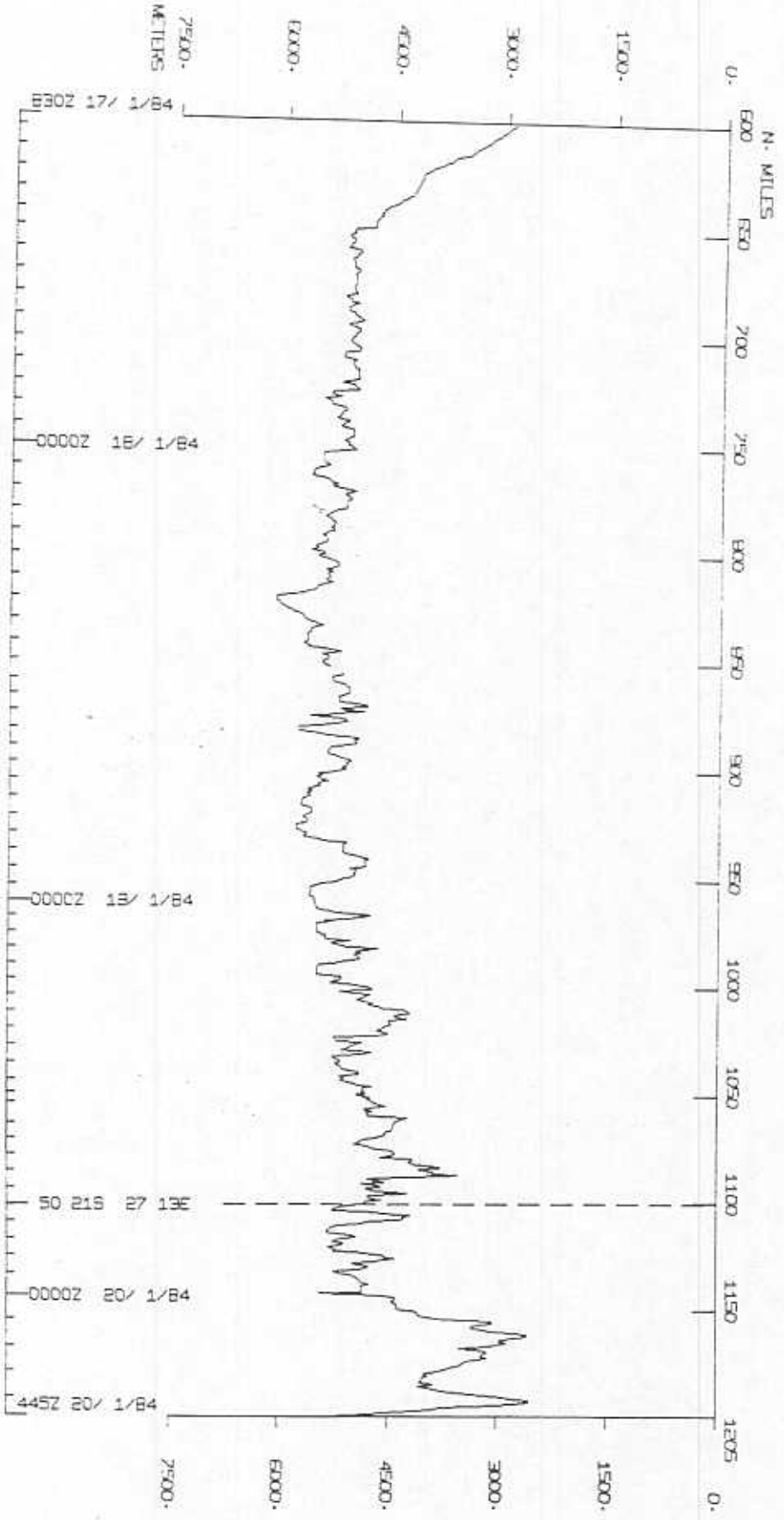
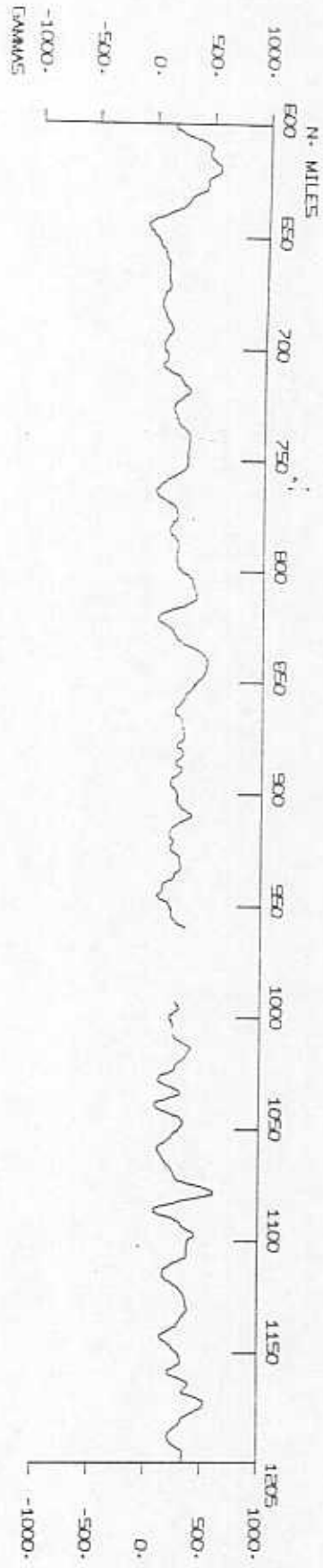
MERCATOR AT .312 IN/DEG LONG



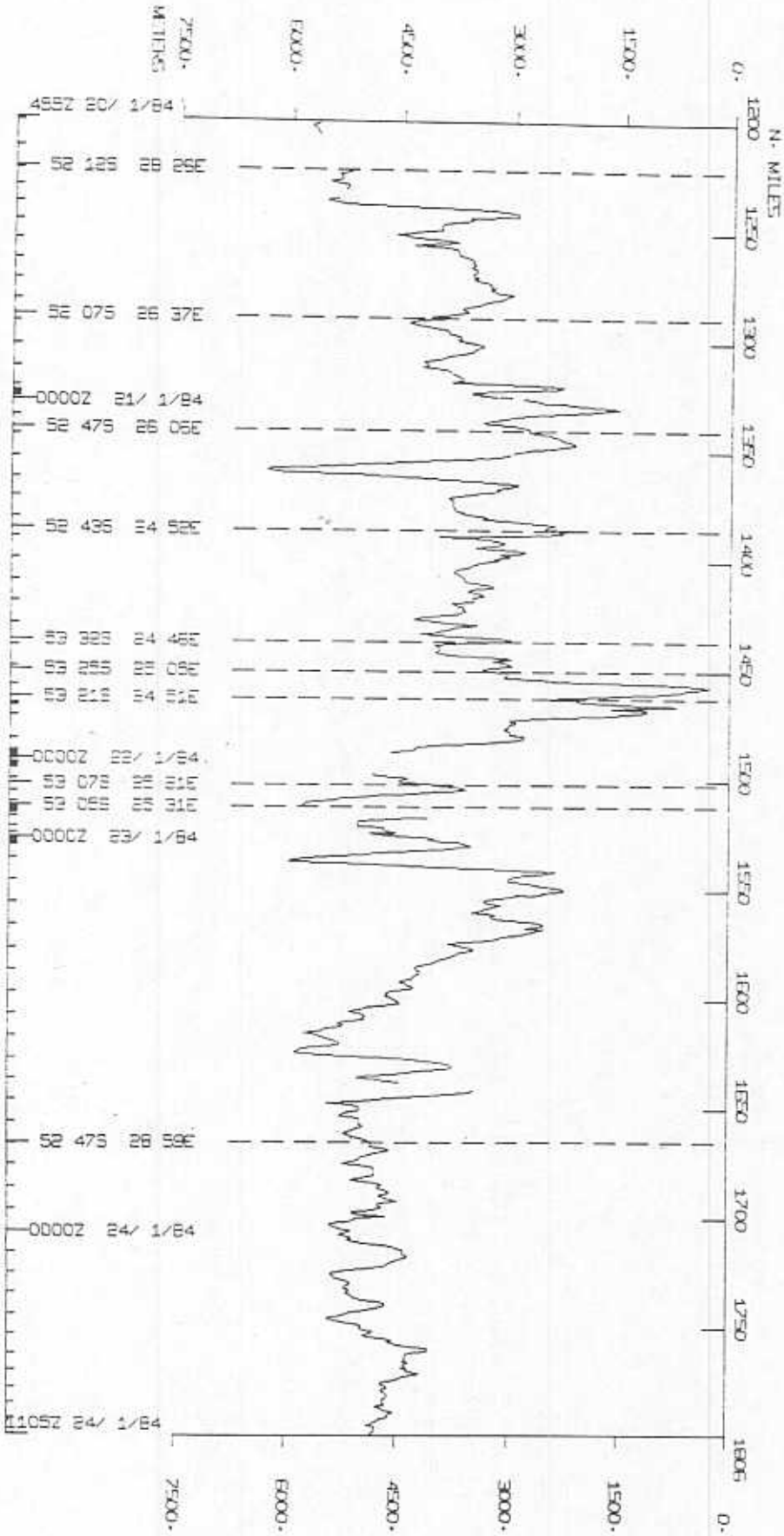
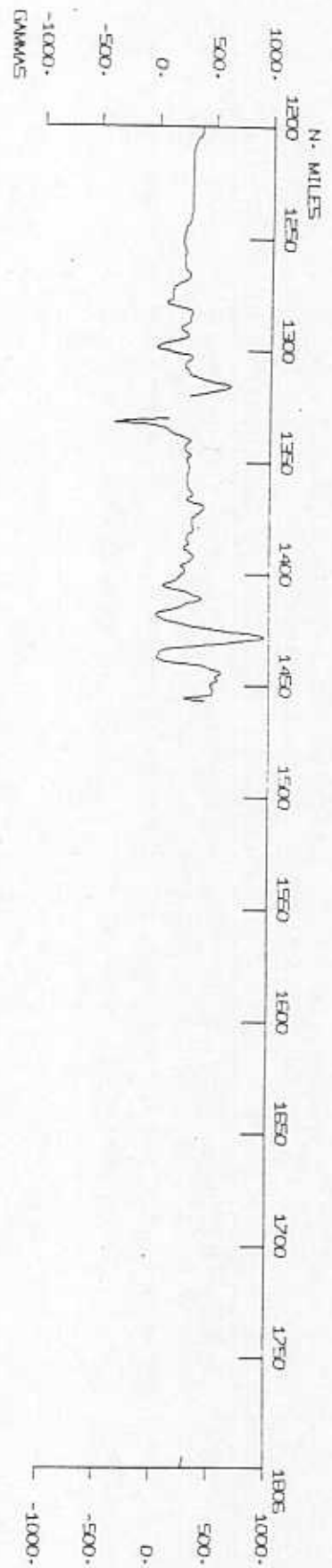
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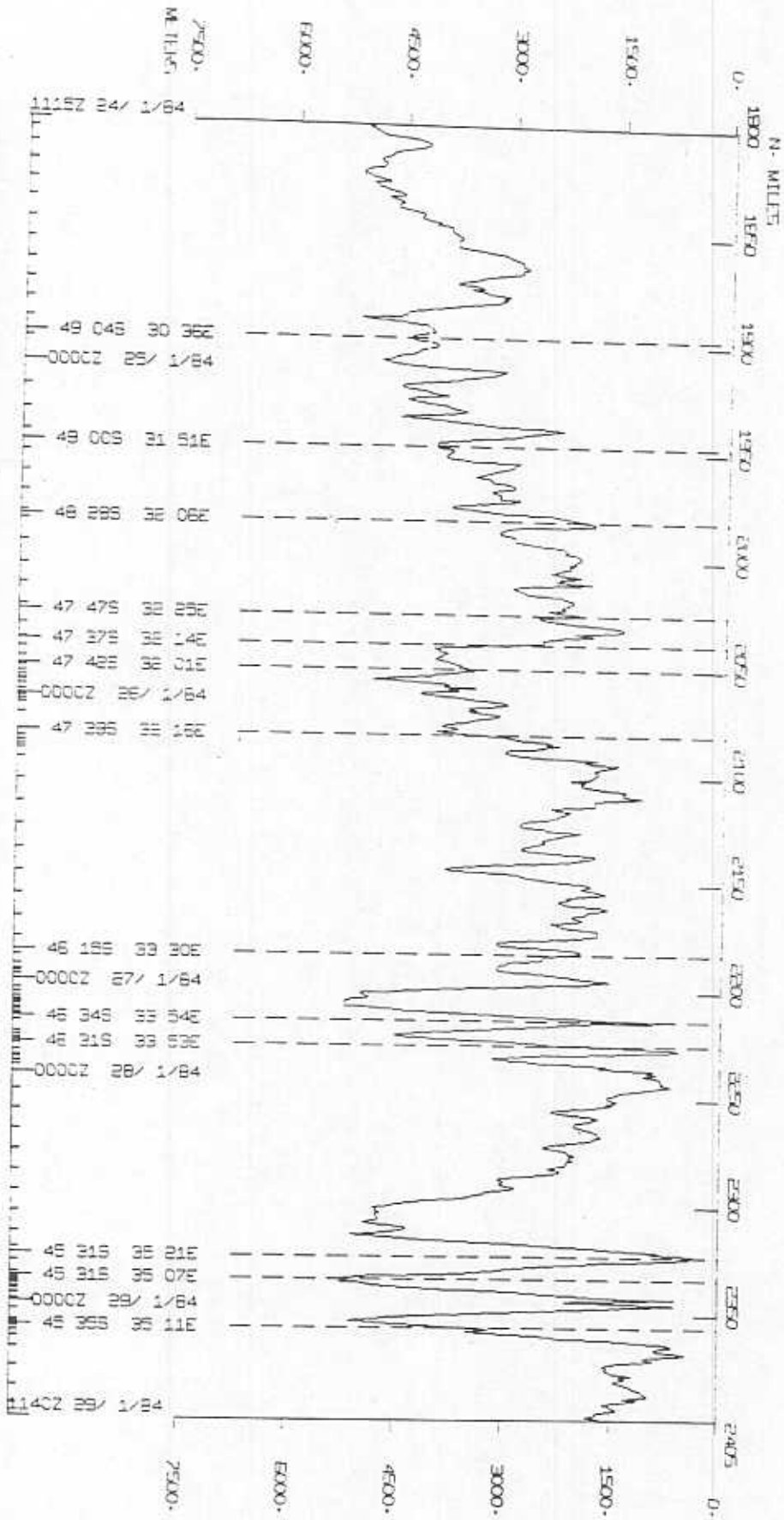
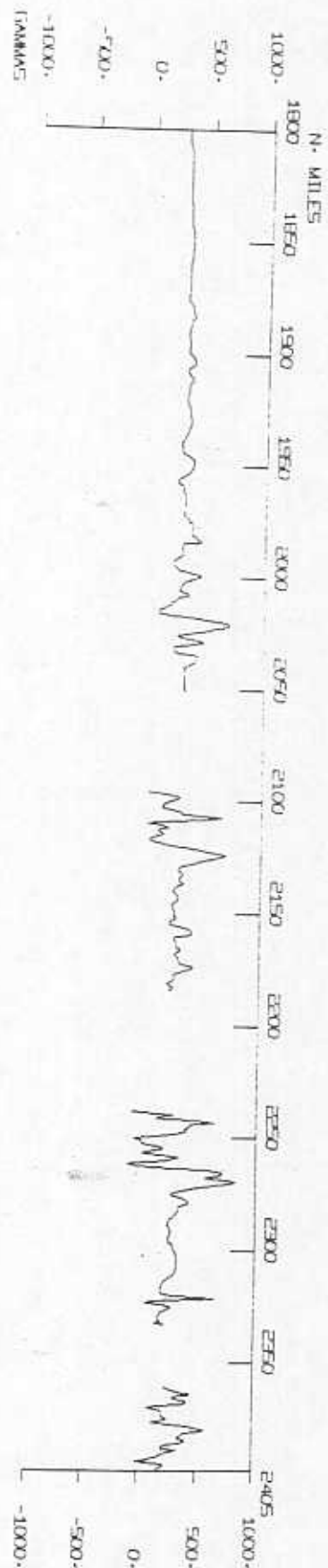
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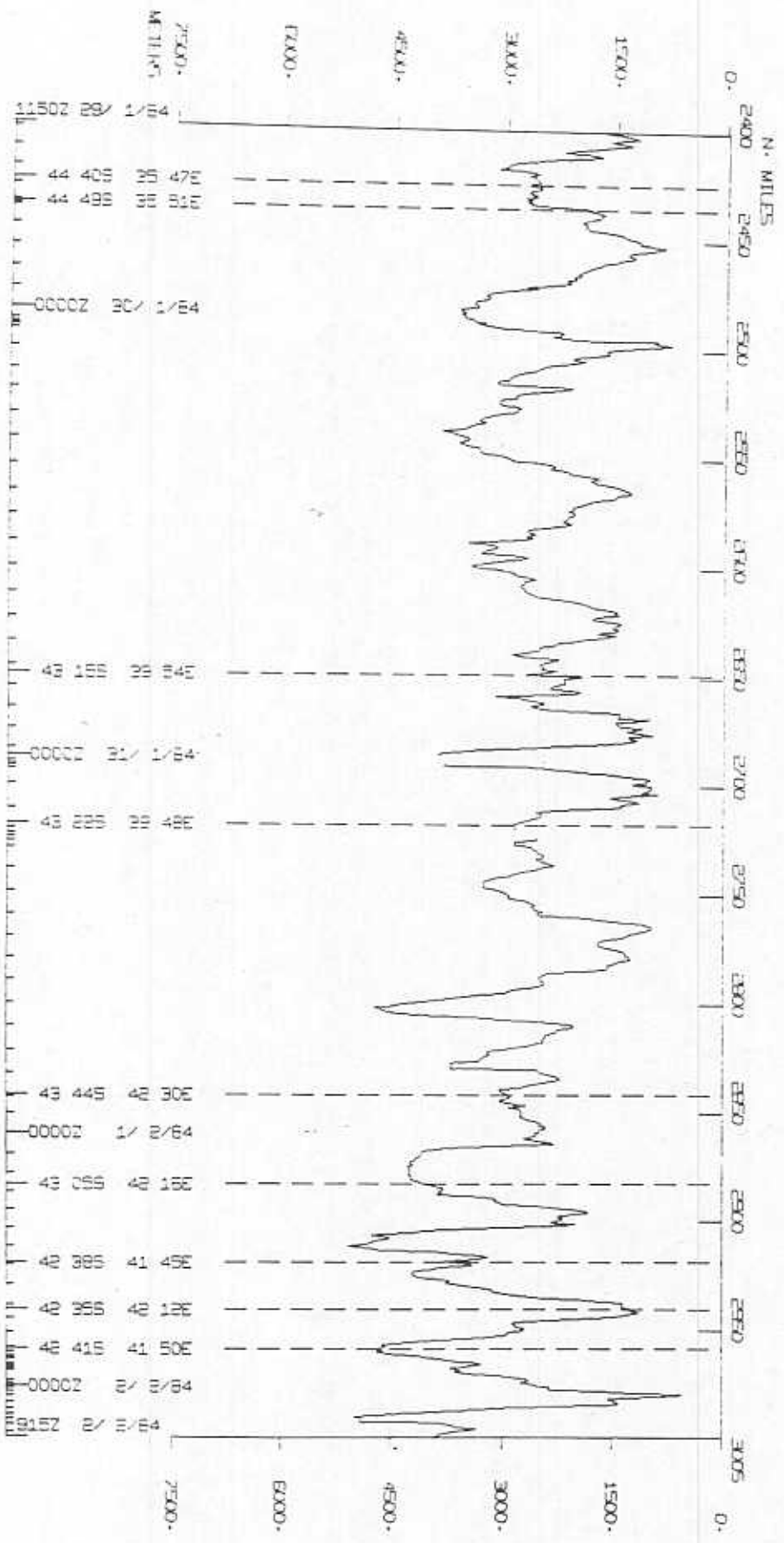
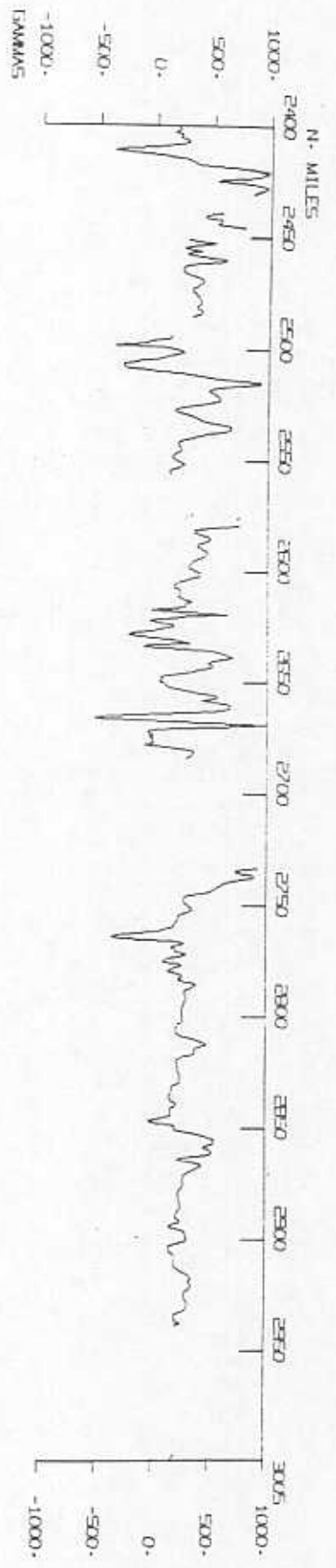
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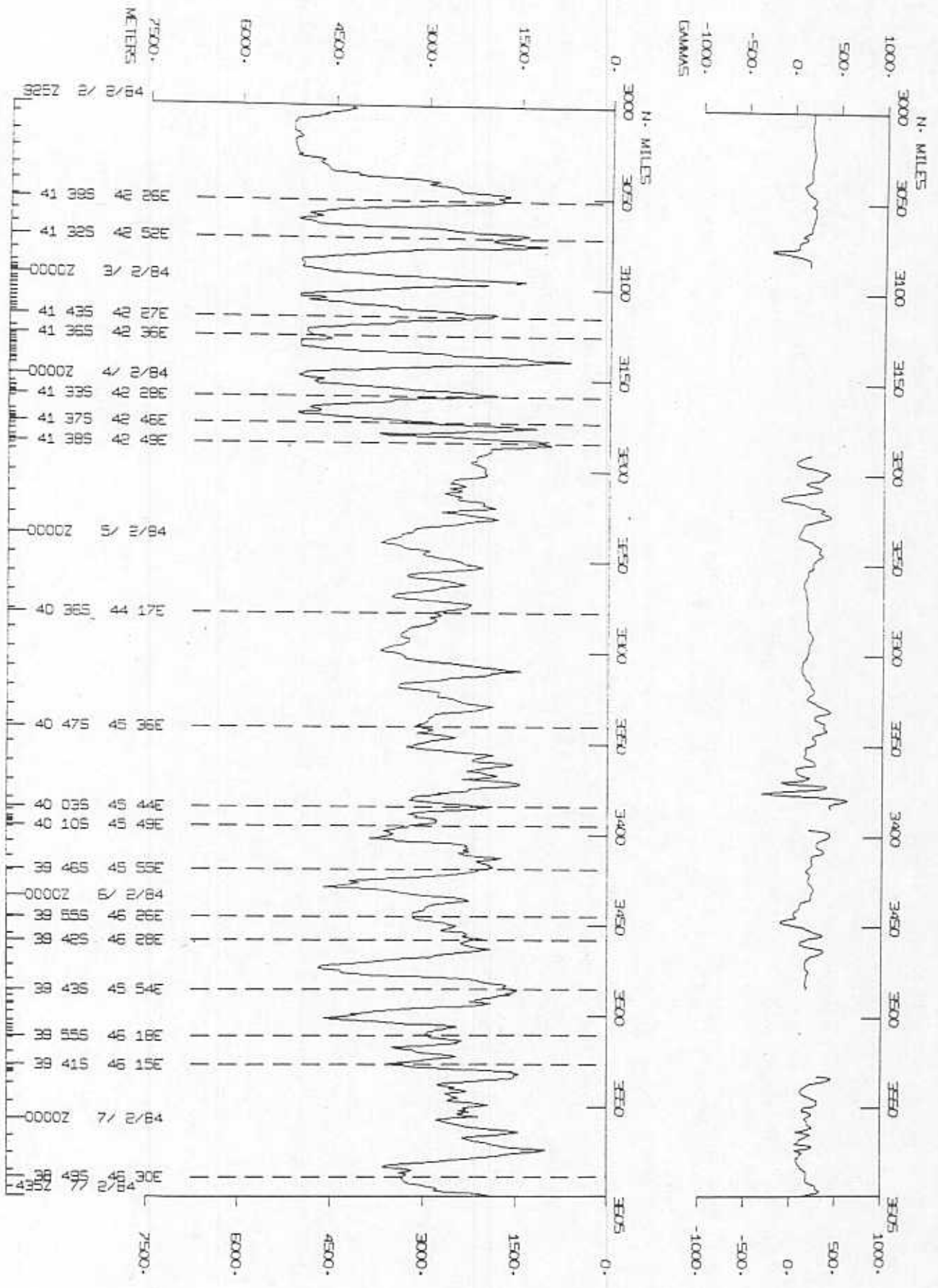
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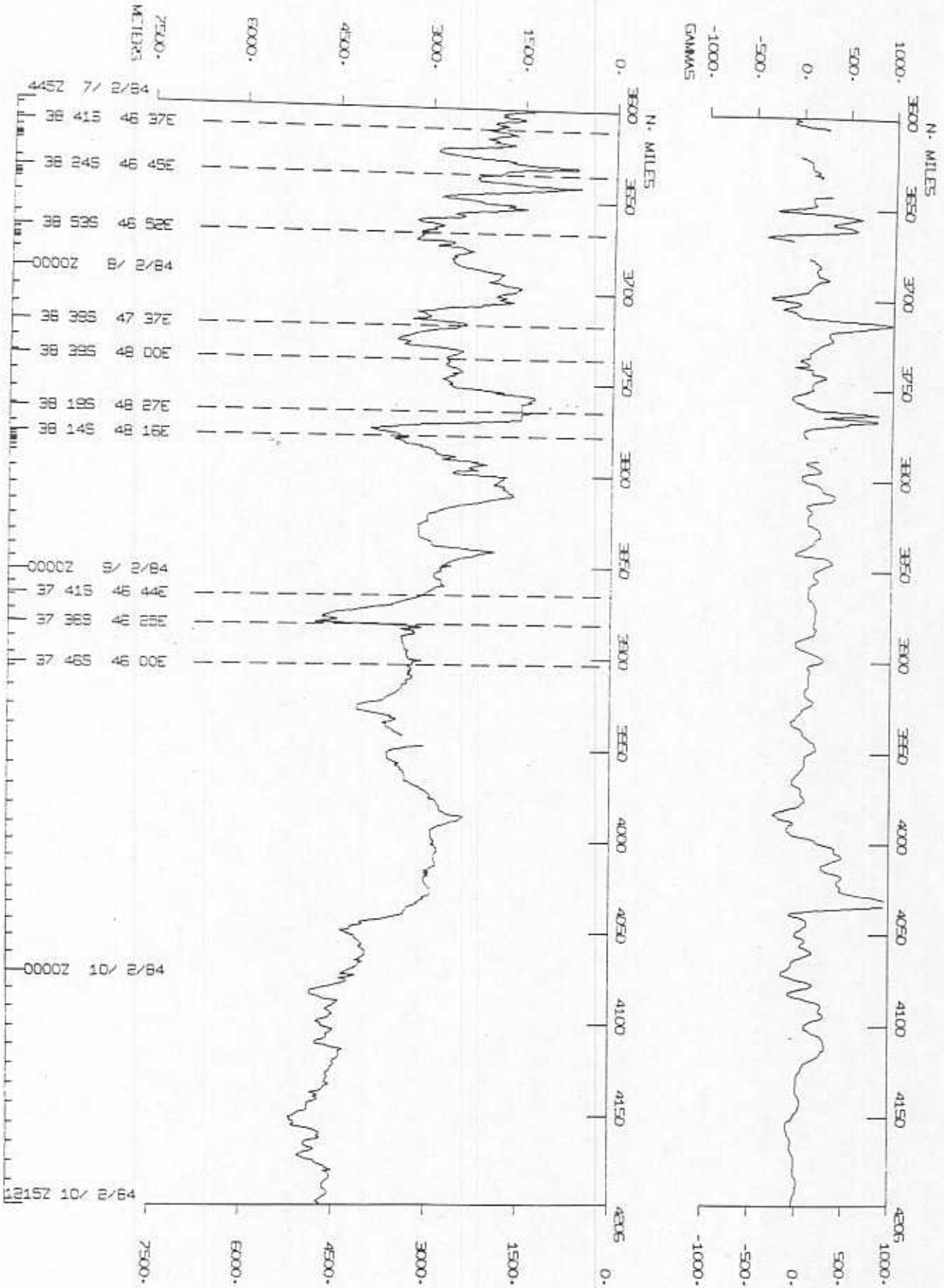
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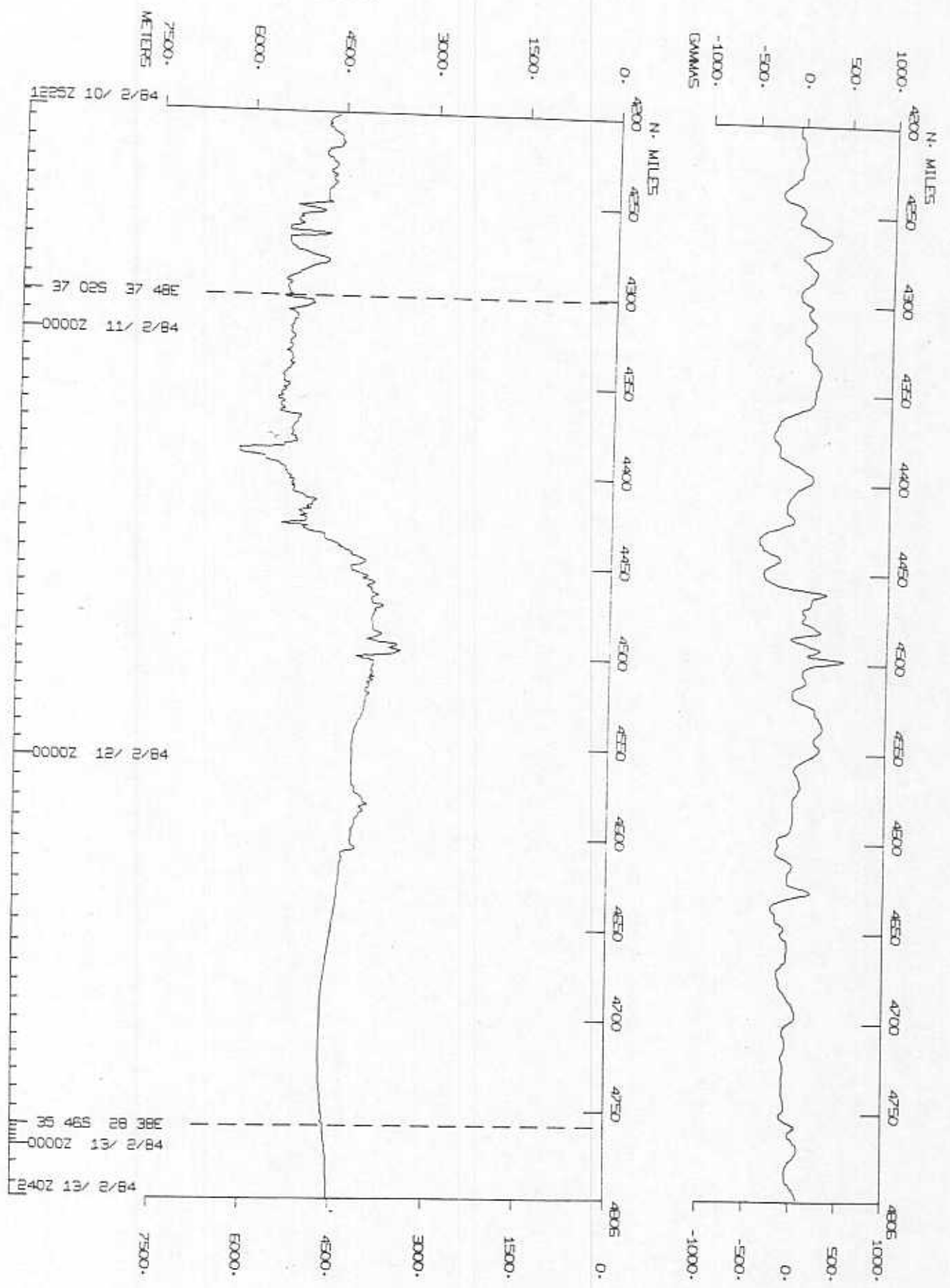
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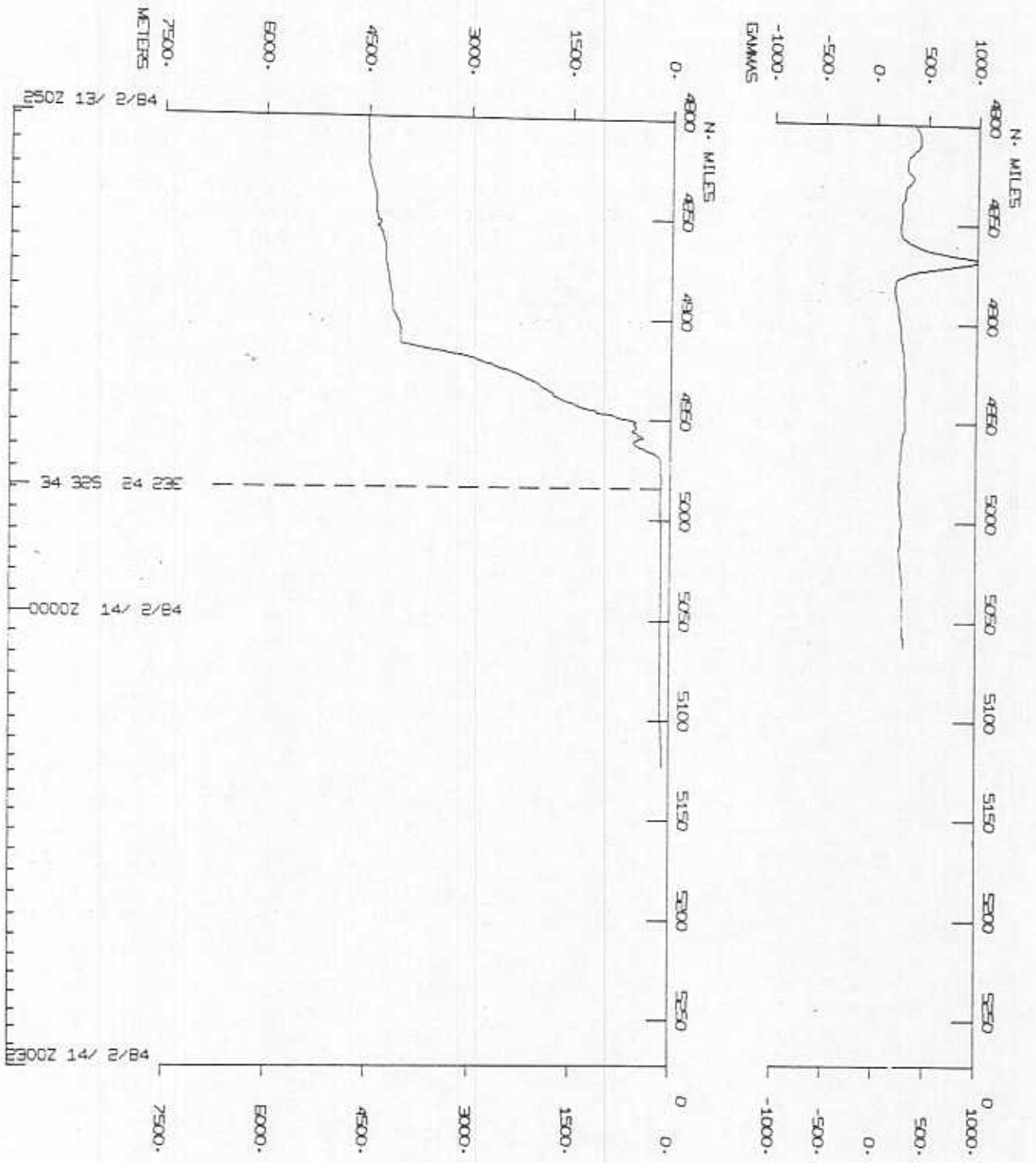
PROTOSMV



PROTOSMV



PROTOSMV



S.I.O. SAMPLE INDEX
(Issued November 1984)

PROTEA EXPEDITION

Leg 5

Cape Town, South Africa (14 January 1984)
to
Cape Town, South Africa (15 February 1984)
R/V Melville

Chief Scientist - Robert L. Fisher

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

Index Encoding Funded by NSF
Grant Number OCE80-22996
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 marine 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 lines. 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.)

PROTEA LEG 5 SAMPLE INDEX

PROTO5MV

PORTS

1615 14 184	LGPT B CAPETOWN,SO.AFRICA	33 54 S 18 26 E F	PROTO5MV
615 15 284	LGPT E CAPETOWN,SO.AFRICA	33 54 S 18 26 E F	PROTO5MV

PERSONNEL

	NAME	***TITLE***	***AFFILIATION***	*CRUISE*
PECS GRD	FISHER,DR.R.L.	CHIEF SCIENTIST	SCRIPPS INSTITUTION	PROTO5MV
PEXN SIX	BERGH,DR.H.	SENIOR RESEARCHER	U. of WITWATERSRAND	PROTO5MV
PESP WHO	DICK,DR.H.J.B.	ASSOCIATE SCIENT.	WOODS HOLE OCEAN.IN.	PROTO5MV
PEXN SIX	HARTNADY,C.(S.AF.)	SENIOR RESEARCHER	UNIV. OF CAPETOWN	PROTO5MV
PESP GRD	NATLAND,DR.J.H.	ASSOC. RES. GEOL.	SCRIPPS INSTITUTION	PROTO5MV
PESP WHO	MEYER,DR.P.S.	POST DOC. INVEST.	WOODS HOLE OCEAN.IN.	PROTO5MV
PERT MTG	COMER,R.L.	RESIDENT TECH.	SCRIPPS INSTITUTION	PROTO5MV
PEAT SGG	HUBENKA,F.	SEN. ELECT. TECH.	SCRIPPS INSTITUTION	PROTO5MV
PECT SCG	CARTER,M.F.	COMPUTER TECH.	SCRIPPS INSTITUTION	PROTO5MV
PESP WHO	WOODING,F.B.	RESEARCH ASSIST.	WOODS HOLE OCEAN.IN.	PROTO5MV
PEXN SIX	FRERE,M.A.	RESEARCH ASSIST	U. of WITWATERSRAND	PROTO5MV
PESP SIX	EBERLY,C.J.	NURSE	SCRIPPS NON-EMPLOYEE	PROTO5MV
PEST SIX	FELHABER,T.(S.AF.)	STUDENT	UNIV. OF CAPETOWN	PROTO5MV
PEXN SIX	CLOUGH,W.A.	STUDENT	U. of WITWATERSRAND	PROTO5MV
PEST STF	FETTER,M.H.	STUDENT	STANFORD	PROTO5MV
PEST WHO	FRIESZ,B.L.	STUDENT	WOODS HOLE OCEAN.IN.	PROTO5MV
PEXN SIX	HAMILTON,C.(S.AF.)	STUDENT	UNIV. OF CAPETOWN	PROTO5MV
PEXN SIX	HENRY,M. (S.AF.)	STUDENT	UNIV. OF CAPETOWN	PROTO5MV
PEXN SIX	NEWTON,S.R.	RESEARCH ASSIST.	GREAT BRITAIN	PROTO5MV
PEST SIX	OTTER,M.L. (S.AF.)	STUDENT	UNIV. OF CAPETOWN	PROTO5MV
PEXN SIX	READ,G.H. (S.AF.)	STUDENT	UNIV. OF CAPETOWN	PROTO5MV
PEXN SIX	ZWEEGMAN,E.(S.AF.)	STUDENT	U. of WITWATERSRAND	PROTO5MV

NOTES

AN 'X' IN THE (B)EGIN/(E)ND COLUMN FOLLOWING THE SAMPLE CODE INDICATES NO SAMPLE OR DATA RECOVERED. A 'C' INDICATES CONTINUATION OF DATA COLLECTION FROM BEFORE THE BEGINNING OR AFTER THE END OF A PARTICULAR LEG. (MOORED BOTTOM INSTRUMENTS, FOR EXAMPLE.) THE NUMBER APPEARING IN THE COLUMNS BETWEEN THE SAMPLE IDENTIFIER AND THE DISPOSITION CODE, FOR MANY SAMPLE ENTRIES, IS THE WATER DEPTH IN CORRECTED METERS.

GMT TIME	DDMMYY DATE	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
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*** UNDERWAY DATA CURATOR - STUART M. SMITH EXT. 2752 ***

LOG BOOKS

1842	14 184	LBUW B	UNDERWAY WATCH LOG	GDC 34	23S	18 36E S	PROTO5MV
735	14 284	LBUW E	UNDERWAY WATCH LOG	GDC 34	492S	21 395E S	PROTO5MV

FATHOGRAMS

1925	14 184	DPRT B	12KHZ R-01	GDC 34	83S	18 29E S	PROTO5MV
621	18 184	DPRT E	12KHZ R-01	GDC 45	456S	25 218E S	PROTO5MV
1805	20 184	DPRT B	12KHZ R-02	GDC 52	350S	26 190E S	PROTO5MV
1017	6 284	DPRT E	12KHZ R-02	GDC 39	474S	46 2E S	PROTO5MV
1152	6 284	DPRT B	12KHZ R-03	GDC 39	498S	46 103E S	PROTO5MV
1424	8 284	DPRT E	12KHZ R-03	GDC 38	168S	48 122E S	PROTO5MV

848	15 184	DPR3 B	3.5KHZ R-01	GDC 36	138S	19 70E S	PROTO5MV
2012	17 184	DPR3 E	3.5KHZ R-01	GDC 44	96S	24 399E S	PROTO5MV
2022	17 184	DPR3 B	3.5KHZ R-02	GDC 44	112S	24 407E S	PROTO5MV
731	18 184	DPR3 E	3.5KHZ R-02	GDC 45	568S	25 252E S	PROTO5MV
733	18 184	DPR3 B	3.5KHZ R-03	GDC 45	571S	25 253E S	PROTO5MV
1330	26 184	DPR3 E	3.5KHZ R-03	GDC 47	28S	33 15E S	PROTO5MV
1338	26 184	DPR3 B	3.5KHZ R-04	GDC 47	16S	33 27E S	PROTO5MV
1112	3 284	DPR3 E	3.5KHZ R-04	GDC 41	424S	42 283E S	PROTO5MV
1116	3 284	DPR3 B	3.5KHZ R-05	GDC 41	422S	42 288E S	PROTO5MV
1847	12 284	DPR3 E	3.5KHZ R-05	GDC 35	466S	28 393E S	PROTO5MV
1859	12 284	DPR3 B	3.5KHZ R-06	GDC 35	465S	28 386E S	PROTO5MV
735	14 284	DPR3 E	3.5KHZ R-06	GDC 34	492S	21 395E S	PROTO5MV

MAGNETICS

215	15 184	MGRA B	MAGNETICS R-01	GDC 35	111S	18 339E S	PROTO5MV
537	24 184	MGRA E	MAGNETICS R-01	GDC 51	160S	29 271E S	PROTO5MV
548	24 184	MGRA B	MAGNETICS R-02	GDC 51	144S	29 275E S	PROTO5MV
730	9 284	MGRA E	MAGNETICS R-02	GDC 37	444S	45 515E S	PROTO5MV
745	9 284	MGRA B	MAGNETICS R-03	GDC 37	436S	45 484E S	PROTO5MV
730	14 284	MGRA E	MAGNETICS R-03	GDC 34	492S	21 405E S	PROTO5MV

GMT TIME	DDMMYY DATE	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
SEISMIC REFLECTION							
1636	15 184	SPRF B	WATER GUN 2SEC R-01	RLF 37	228S	19 445E S	PROTO5MV
1945	17 184	SPRF E	WATER GUN 2SEC R-01	RLF 44	54S	24 379E S	PROTO5MV
1950	17 184	SPRF B	WATER GUN 2SEC R-02	RLF 44	62S	24 383E S	PROTO5MV
1130	23 184	SPRF E	WATER GUN 2SEC R-02	RLF 53	40S	26 447E S	PROTO5MV
1141	23 184	SPRF B	WATER GUN 2SEC R-03	RLF 53	40S	26 478E S	PROTO5MV
1004	31 184	SPRF E	WATER GUN 2SEC R-03	RLF 43	212S	39 557E S	PROTO5MV
2204	31 184	SPRF B	WATER GUN 2SEC R-04	RLF 43	434S	42 302E S	PROTO5MV
630	9 284	SPRF E	WATER GUN 2SEC R-04	RLF 37	464S	46 21E S	PROTO5MV
1636	15 184	SPRF B	WATER GUN 4SEC R-01	RLF 37	228S	19 445E S	PROTO5MV
917	16 184	SPRF E	WATER GUN 4SEC R-01	RLF 39	450S	21 489E S	PROTO5MV
1700	16 184	SPRF B	WATER GUN 4SEC R-02	RLF 40	68S	22 196E S	PROTO5MV
1130	23 184	SPRF E	WATER GUN 4SEC R-02	RLF 53	40S	26 447E S	PROTO5MV
1137	23 184	SPRF B	WATER GUN 4SEC R-03	RLF 53	40S	26 467E S	PROTO5MV
1007	31 184	SPRF E	WATER GUN 4SEC R-03	RLF 43	211S	39 559E S	PROTO5MV
2207	31 184	SPRF B	WATER GUN 4SEC R-04	RLF 43	430S	42 300E S	PROTO5MV
630	9 284	SPRF E	WATER GUN 4SEC R-04	RLF 37	464S	46 21E S	PROTO5MV
DREDGES							
2038	290184	DRRO	ROCK DREDGE-09 3040M	RLF 52	350S	26 201E F	PROTO5MV
1605	210184	DRRO	ROCK DREDGE-10 1275M	RLF 53	212S	24 561E F	PROTO5MV
1950	210184	DRRO	ROCK DREDGE-11 5175M	RLF 53	96S	25 295E F	PROTO5MV
755	220184	DRRO	ROCK DREDGE-12 4175M	RLF 53	107S	25 306E F	PROTO5MV
1640	220184	DRRO	ROCK DREDGE-13 5125M	RLF 53	58S	25 327E F	PROTO5MV
120	230184	DRRO	ROCK DREDGE-14 4050M	RLF 53	70S	25 194E F	PROTO5MV
2006	250184	DRRO	ROCK DREDGE-15 4200M	RLF 47	418S	32 095E F	PROTO5MV
517	260184	DRRO	ROCK DREDGE-16 2380M	RLF 47	384S	32 221E F	PROTO5MV
2156	260184	DRRO	ROCK DREDGE-17 2215M	RLF 46	234S	33 311E F	PROTO5MV
645	270184	DRRO	ROCK DREDGE-18 4950M	RLF 46	320S	33 465E F	PROTO5MV
1340	270184	DRRO	ROCK DREDGE-19 3300M	RLF 46	309S	33 514E F	PROTO5MV
1949	270184	DRRO	ROCK DREDGE-20 2600M	RLF 46	292S	33 531E F	PROTO5MV
1347	280184	DRRO	ROCK DREDGE-21 4895M	RLF 45	316S	35 104E F	PROTO5MV
1903	280184	DRRO	ROCK DREDGE-22 2145M	RLF 45	342S	35 167E F	PROTO5MV
2222	280184	DRRO	ROCK DREDGE-23 1325M	RLF 45	339S	35 176E F	PROTO5MV
317	290184	DRRO	ROCK DREDGE-24 4125M	RLF 45	353S	35 114E F	PROTO5MV
1658	290184	DRRO	ROCK DREDGE-25 1880M	RLF 44	493S	35 512E F	PROTO5MV
221	300184	DRRO	ROCK DREDGE-26 2925M	RLF 44	444S	37 48E F	PROTO5MV
135	310184	DRRO	ROCK DREDGE-27 3730M	RLF 43	373S	39 191E F	PROTO5MV
837	310184	DRRO	ROCK DREDGE-28 2575M	RLF 43	224S	39 523E F	PROTO5MV
1417	010284	DRRO	ROCK DREDGE-29 4500M	RLF 42	411S	41 538E F	PROTO5MV
1838	010284	DRRO	ROCK DREDGE-30 3330M	RLF 42	412S	41 593E F	PROTO5MV
2305	010284	DRRO	ROCK DREDGE-31 2655M	RLF 42	396S	42 080E F	PROTO5MV

GMT TIME	DDMMYY DATE	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
2007	020284	DRRO	ROCK DREDGE-32 4600M	RLF	41 410S	42 414E	F PROT05MV
1215	030284	DRRO X	ROCK DREDGE-33	RLF	41 381S	42 365E	F PROT05MV
321	040284	DRRO	ROCK DREDGE-34 2950M	RLF	41 311S	42 301E	F PROT05MV
931	040284	DRRO	ROCK DREDGE-35 3900M	RLF	41 438S	42 448E	F PROT05MV
1619	040284	DRRO X	ROCK DREDGE-36	RLF	41 389S	42 493E	F PROT05MV
1655	050284	DRRO	ROCK DREDGE-37 3075M	RLF	40 79S	42 459E	F PROT05MV
801	060284	DRRO	ROCK DREDGE-38 1983M	RLF	39 472S	45 593E	F PROT05MV
1323	060284	DRRO	ROCK DREDGE-39 2925M	RLF	39 519S	46 139E	F PROT05MV
1913	060284	DRRO	ROCK DREDGE-40 2550M	RLF	39 434S	46 180E	F PROT05MV
820	070284	DRRO	ROCK DREDGE-41 1787M	RLF	38 398S	46 380E	F PROT05MV
1418	070284	DRRO	ROCK DREDGE-42 1857M	RLF	38 265S	46 431E	F PROT05MV
2024	070284	DRRO	ROCK DREDGE-43 2625M	RLF	38 544S	46 534E	F PROT05MV
1213	080284	DRRO X	ROCK DREDGE-44	RLF	38 153S	48 146E	F PROT05MV

MIDWATER TRAWLS

1100	16 184	TMIK B	IKNTO 3000M 1-1	MVC	39 530S	21 577E	S PROT05MV
1547	16 184	TMIK E	STA. 1 TOW 1	MVC	40 13S	22 163E	S PROT05MV
449	2 284	TMIK B	IKNTO 3000M 3-2	MVC	42 388S	42 214E	S PROT05MV
822	2 284	TMIK E	STA. 3 TOW 2	MVC	42 360S	42 327E	S PROT05MV
2014	12 284	TMIK B	IKNTO 3000M 5-3	MVC	35 452S	28 391E	S PROT05MV
2345	12 284	TMIK E	STA. 5 TOW 3	MVC	35 390S	28 311E	S PROT05MV

SURFACE NETS

1221	16 184	SNNU B	SNNUH STA 1 TOW 1	MVC	39 550S	22 30E	S PROT05MV
1236	16 184	SNNU E	SNNUH STA 1 TOW 1	MVC	39 555S	22 39E	S PROT05MV
2107	20 184	SNNU B	SNNUH STA 2 TOW 2	MVC	52 351S	26 199E	S PROT05MV
2124	20 184	SNNU E	SNNUH STA 2 TOW 2	MVC	52 351S	26 197E	S PROT05MV
1823	6 284	SNNU B	SNNUH STA 4 TOW 3	MVC	39 425S	46 168E	S PROT05MV
1838	6 284	SNNU E	SNNUH STA 4 TOW 3	MVC	39 428S	46 173E	S PROT05MV
1933	12 284	SNNU B	SNNUH STA 5 TOW 4	MVC	35 461S	28 392E	S PROT05MV
1948	12 284	SNNU E	SNNUH STA 5 TOW 4	MVC	35 458S	28 396E	S PROT05MV

Nov 19 11:27 1984 PROTEA LEG 5 SAMPLE INDEX Page 5

GMT TIME	DDMMYY DATE	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
BIOLOGICAL MATERIAL OBTAINED FROM ROCK DREDGES							
1605	210184	BLXX	ROCK DREDGE-10 1275M	MVC	53 212S	24 561E	F PROT05MV
755	220184	BLXX	ROCK DREDGE-12 4175M	MVC	53 306E	25 308E	F PROT05MV
1640	220184	BLXX	ROCK DREDGE-13 5125M	MVC	53 058S	25 327E	F PROT05MV
2006	250184	BLXX	ROCK DREDGE-15 4200M	MVC	47 418S	32 095E	F PROT05MV
517	260184	BLXX	ROCK DREDGE-16 2380M	MVC	47 384S	32 221E	F PROT05MV
645	270184	BLXX	ROCK DREDGE-18 4950M	MVC	46 320S	33 465E	F PROT05MV
1340	270184	BLXX	ROCK DREDGE-19 3300M	MVC	46 309S	33 514E	F PROT05MV
1949	270184	BLXX	ROCK DREDGE-20 2600M	MVC	46 292S	33 531E	F PROT05MV
1903	280184	BLXX	ROCK DREDGE-22 2145M	MVC	45 342S	35 167E	F PROT05MV
2222	280184	BLXX	ROCK DREDGE-23 1325M	MVC	45 339S	35 176E	F PROT05MV
837	310184	BLXX	ROCK DREDGE-28 2575M	MVC	43 224S	39 523E	F PROT05MV
1417	010284	BLXX	ROCK DREDGE-29 4500M	MVC	42 411S	41 538E	F PROT05MV
1838	010284	BLXX	ROCK DREDGE-30 3330M	MVC	42 412S	41 593E	F PROT05MV
1619	040284	BLXX X	ROCK DREDGE-36 3573M	MVC	41 389S	42 493E	F PROT05MV
801	060284	BLXX	ROCK DREDGE-38 1983M	MVC	39 472S	45 593E	F PROT05MV
1418	070284	BLXX	ROCK DREDGE-42 1857M	MVC	38 265S	46 431E	F PROT05MV

END SAMPLE INDEX