

INFORMAL REPORT AND INDEX OF  
NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA  
(Issued March 1983)

BENTHIC EXPEDITION

LEG 4

Honolulu, Hawaii (9 January 1983)  
to  
Papeete, Tahiti (16 February 1983)

R/V Melville

Co-Chief Scientists - T. Jordan and J. Orcutt (SIO)

Resident Marine Tech - G. Pillard

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

Data Collection Funded by ONR  
Grant Number USN N00014-83-K-0151  
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 chief scientist or the Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093.

GDC Cruise I.D.# - 204

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

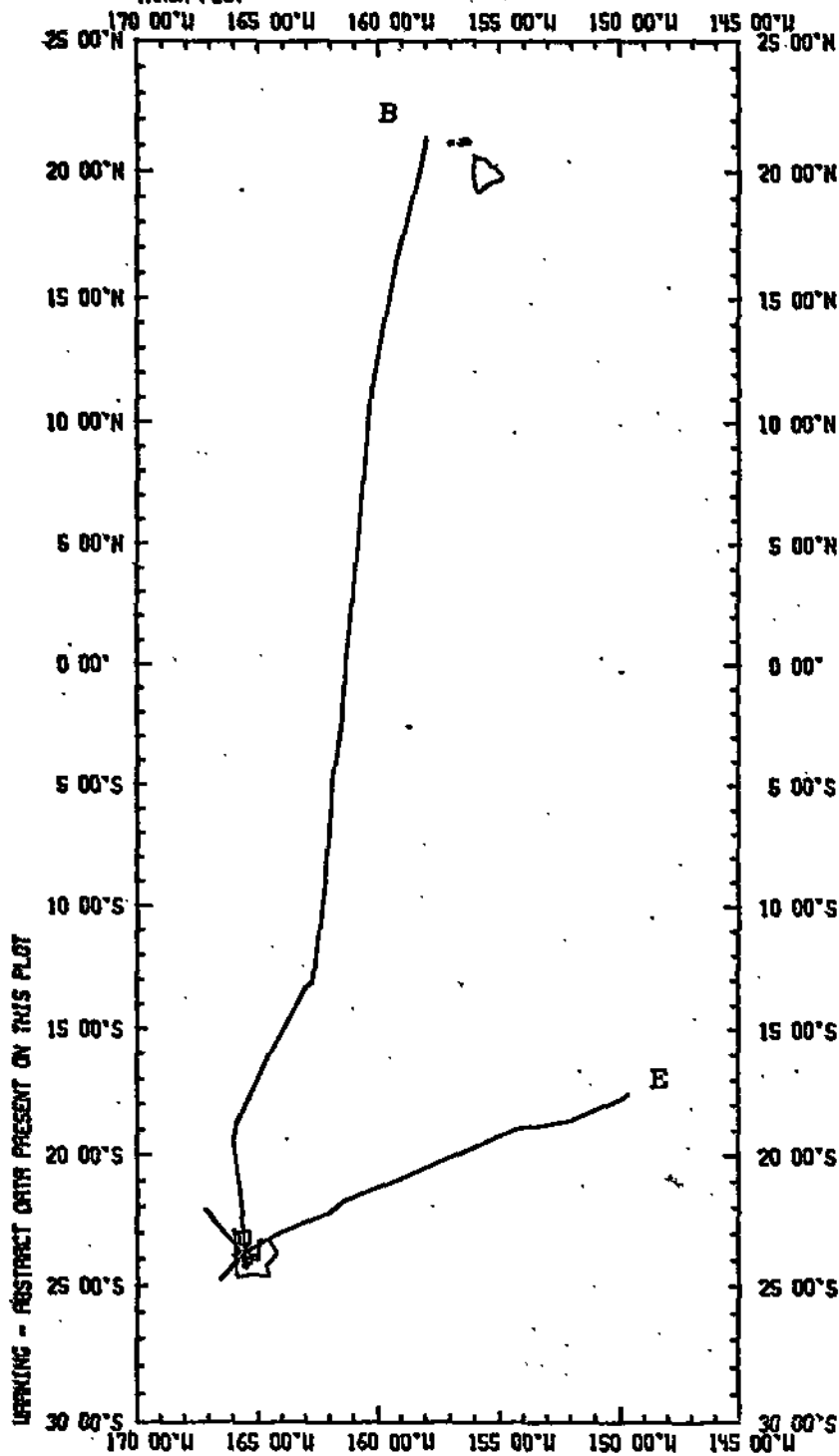
Contents:

- Index Chart - gives track of cruise leg, dates, ports, and mileage of each type of data collected.
- Track Charts - annotated with dates (day/month) and hour ticks. The scale is .312 in/degree longitude.
- 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 wide black line along the bottom of the profile. Sections having Sea Beam are indicated by a narrow line.
- 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.

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 - Compilation plots at the traditional scale of 4"/degree longitude (1:1,000,000) are no longer produced for Sea Beam cruises. Custom plots may be requested of vertical beam (2 $\frac{2}{3}$  degree beam width) depths retrieved at one minute intervals of ship time.
3. Plots of magnetic anomaly profiles along track - map scale = 1.2inch/degree, anomaly scale between 15N and 15 S latitude = 500 gamma/inch, anomaly scale north of 15N and south of 15S = 1000 gamma/inch, from values retrieved at approximately 1 mile spacing and regional field removed using the 1980 IGRF.
4. Separate time series files of navigation, depth and magnetics of data merged in the MGD77 Exchange format on magnetic tape.
5. 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

BNTHO4MV  
TRACK PLOT



BENTHIC EXPEDITION  
LEG 4

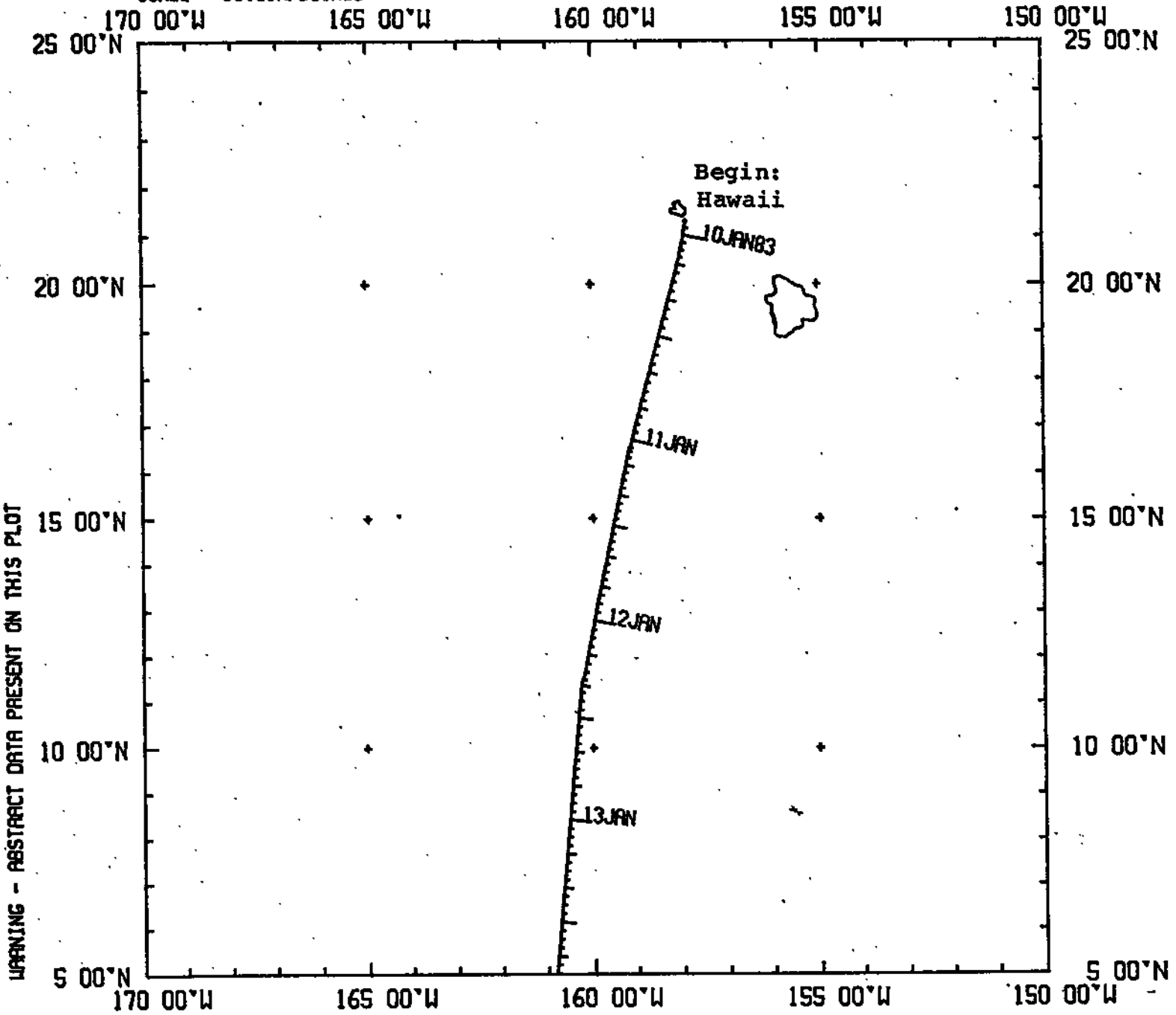
Co-Chief Scientists: T. Jordan and J. Orcutt (SIO)  
Ports: Honolulu, Hawaii - Papeete, Tahiti  
Dates: 9 January - 16 February 1983  
Ship: R/V Melville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

- 1) Cruise - 6181 miles
- 2) Bathymetry - 5961 miles
- 3) Magnetics - 4051 miles
- 4) Seismic Reflection - 468 miles
- 5) Gravity - none collected

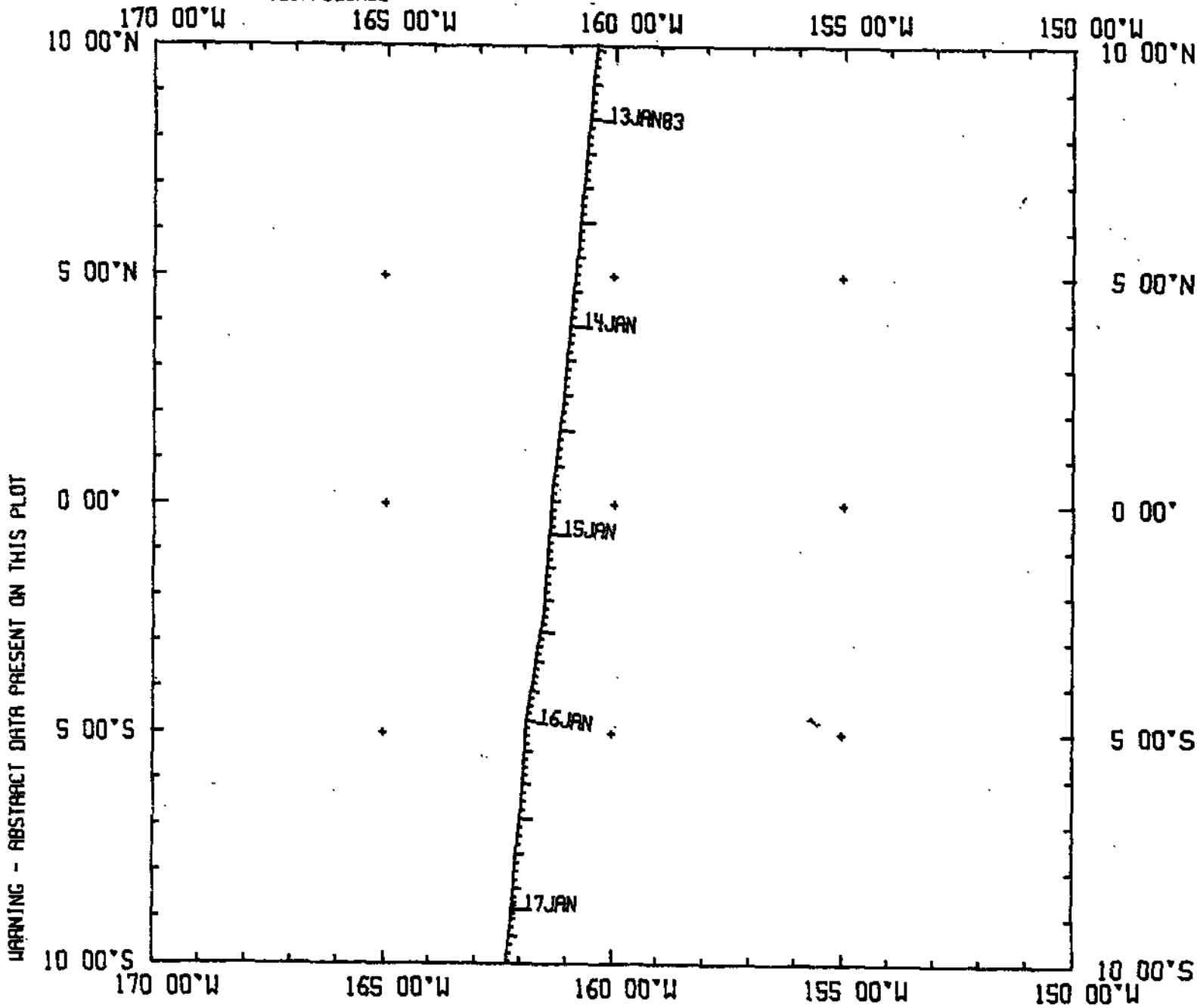
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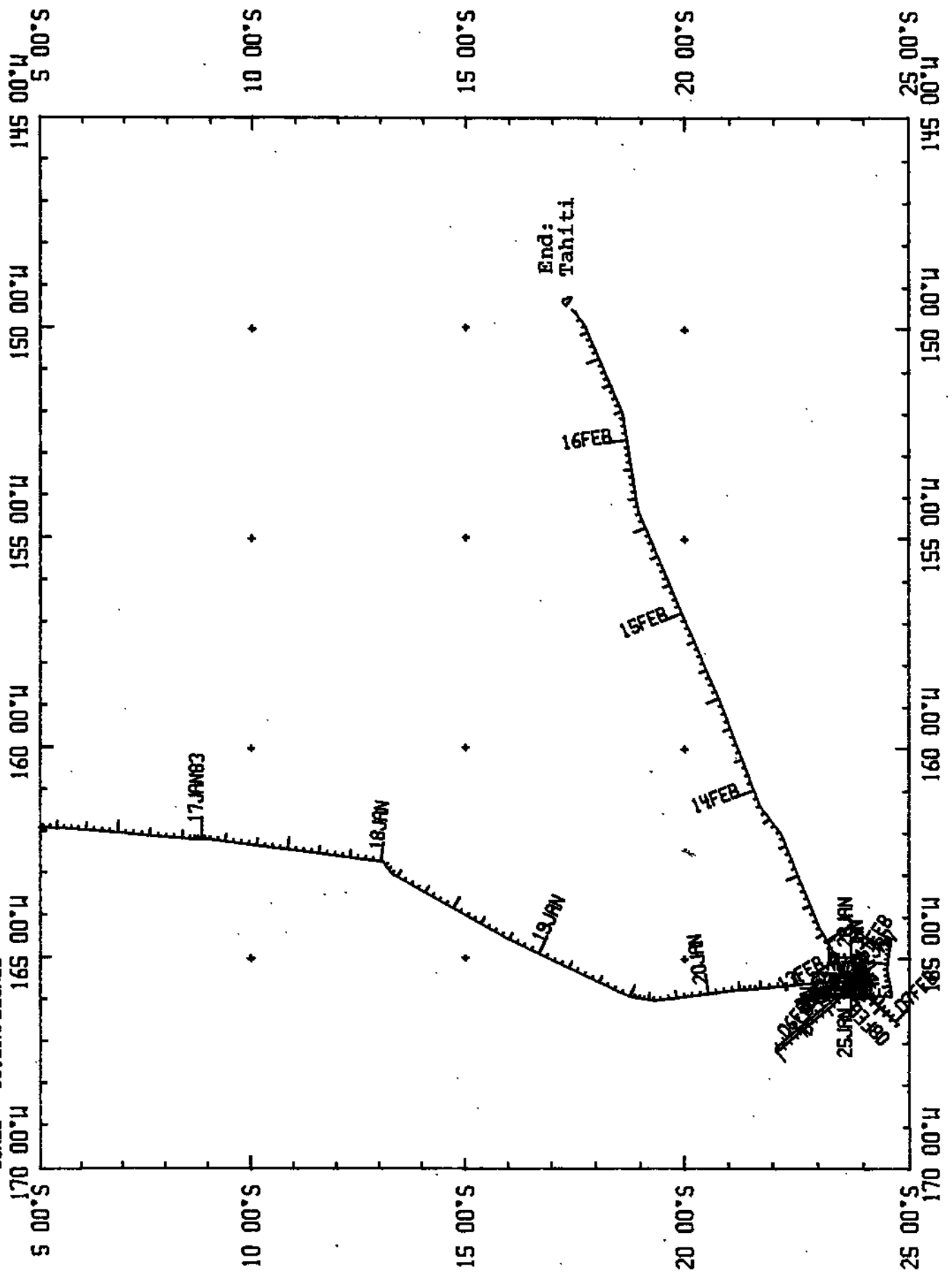


BNTH04MV (TRACK PLOT 2 OF 3)

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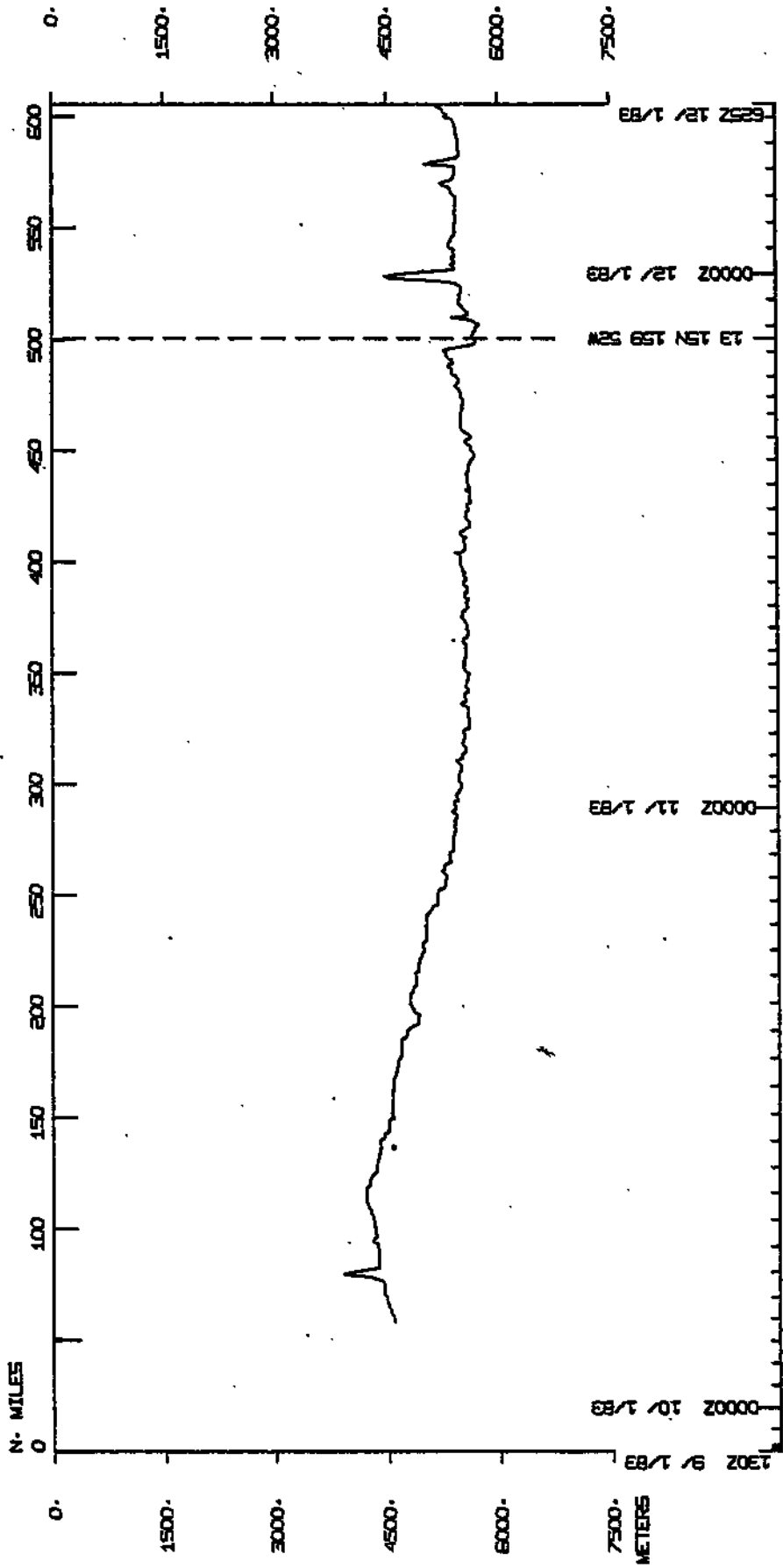
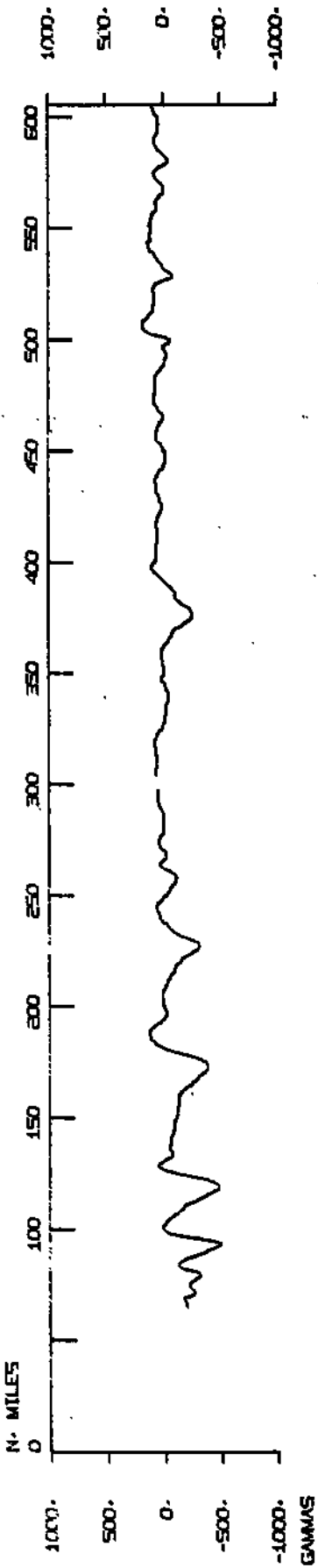


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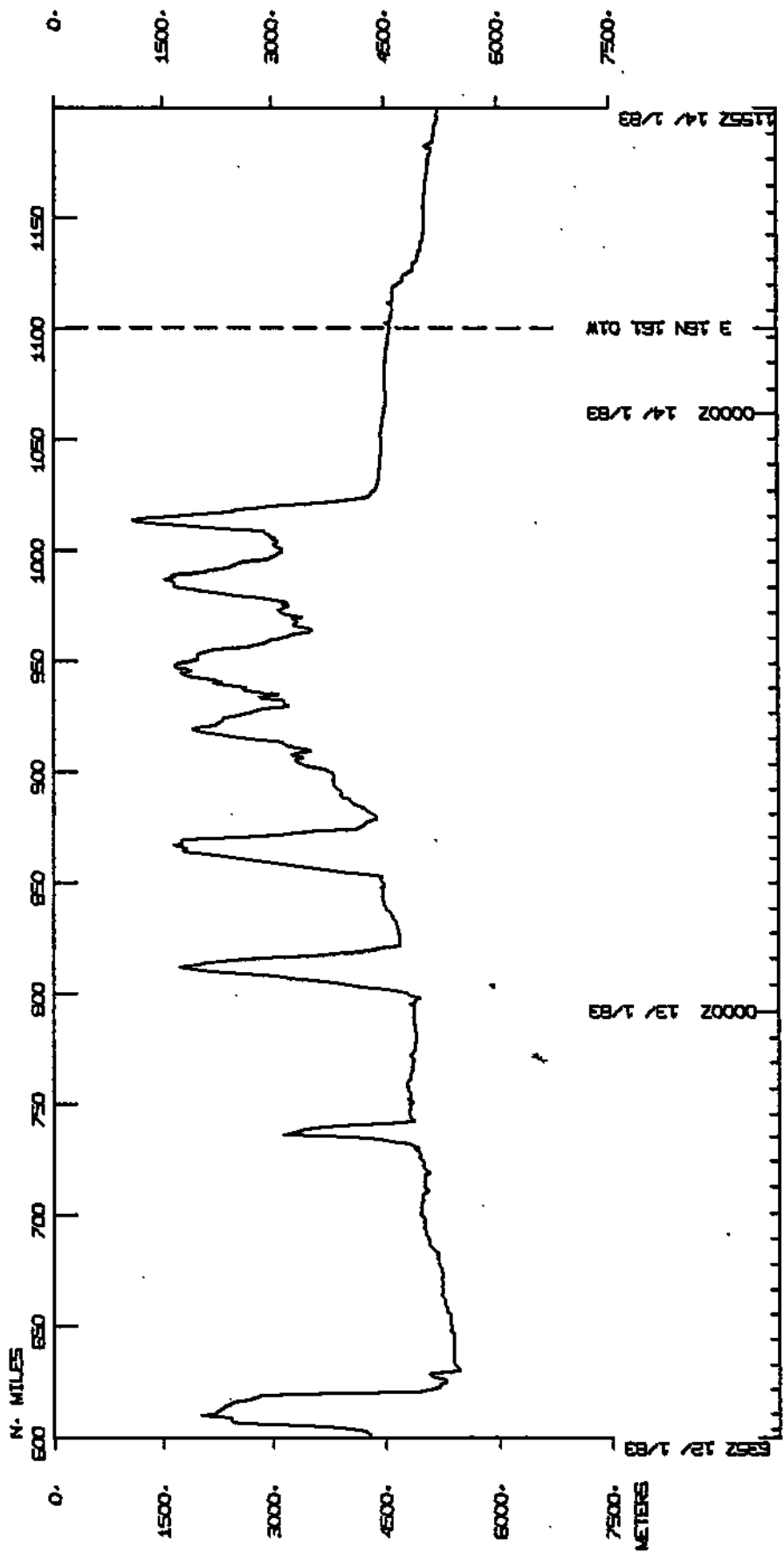
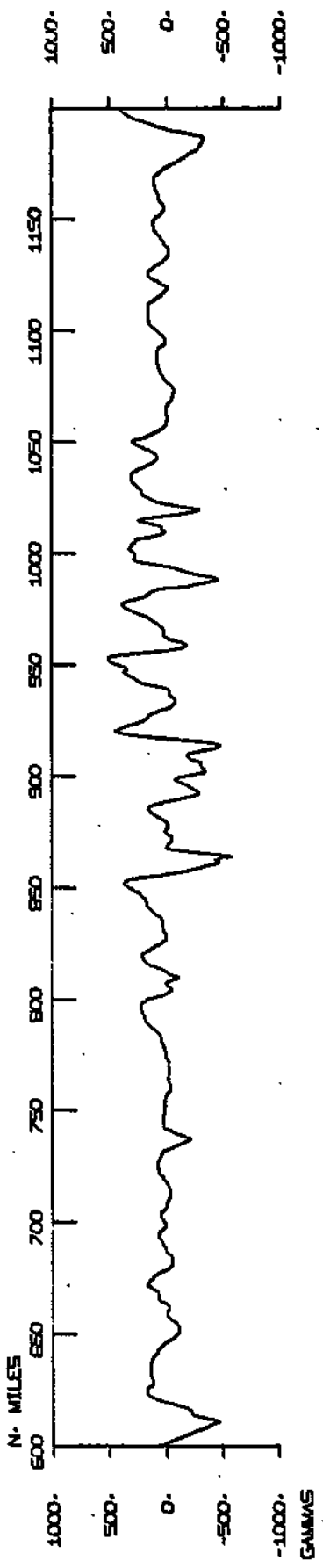


WARNING - ABSTRACT DATA PRESENT ON THIS PLOT

BNTHO4MV

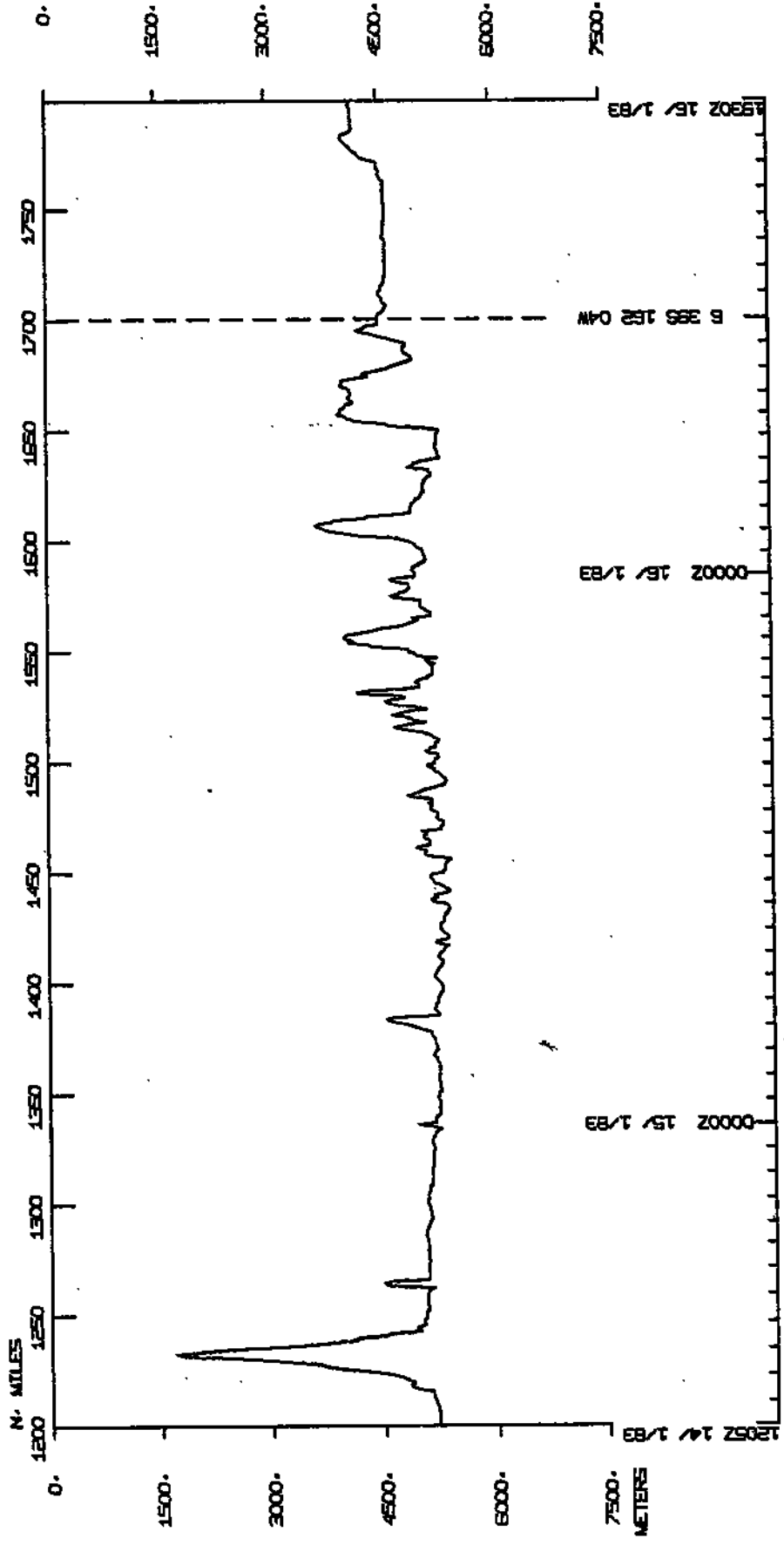
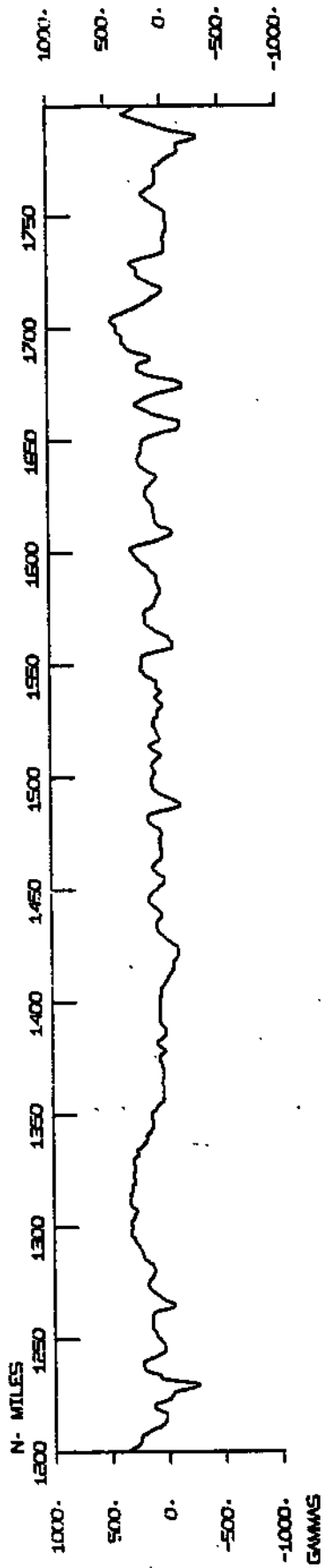


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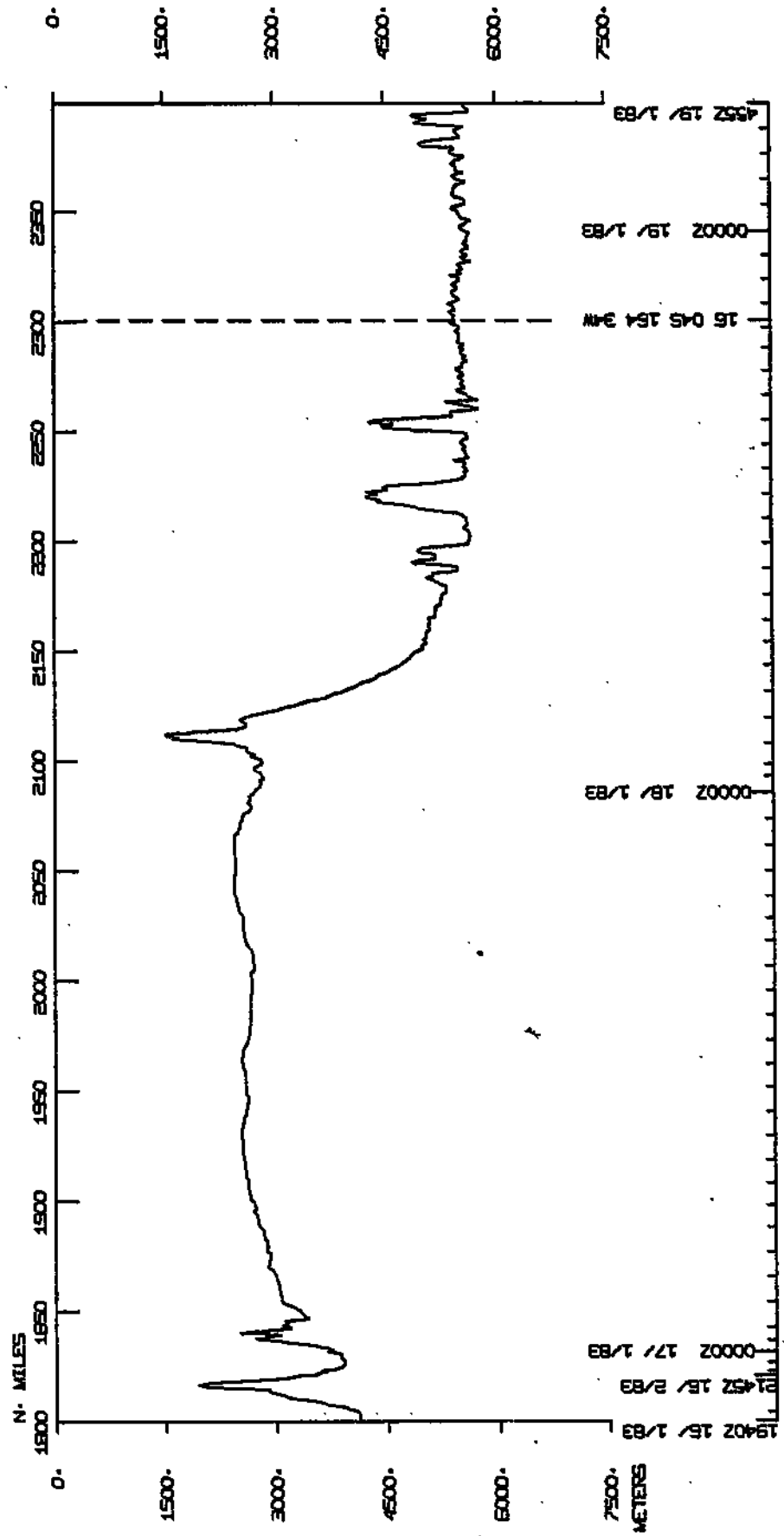
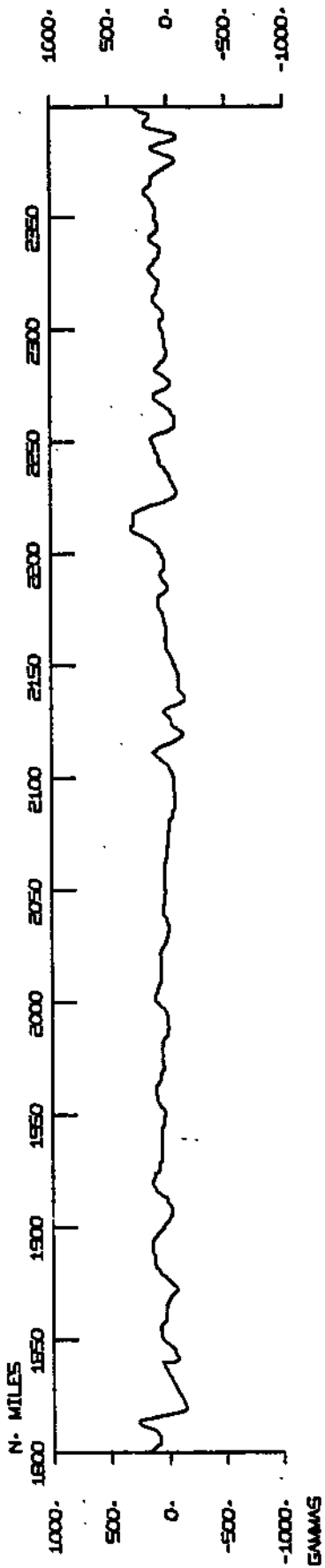
657 12 / 1/83  
00002 13 / 1/83  
3 15N 151 01W  
00002 14 / 1/83  
1552 14 / 1/83



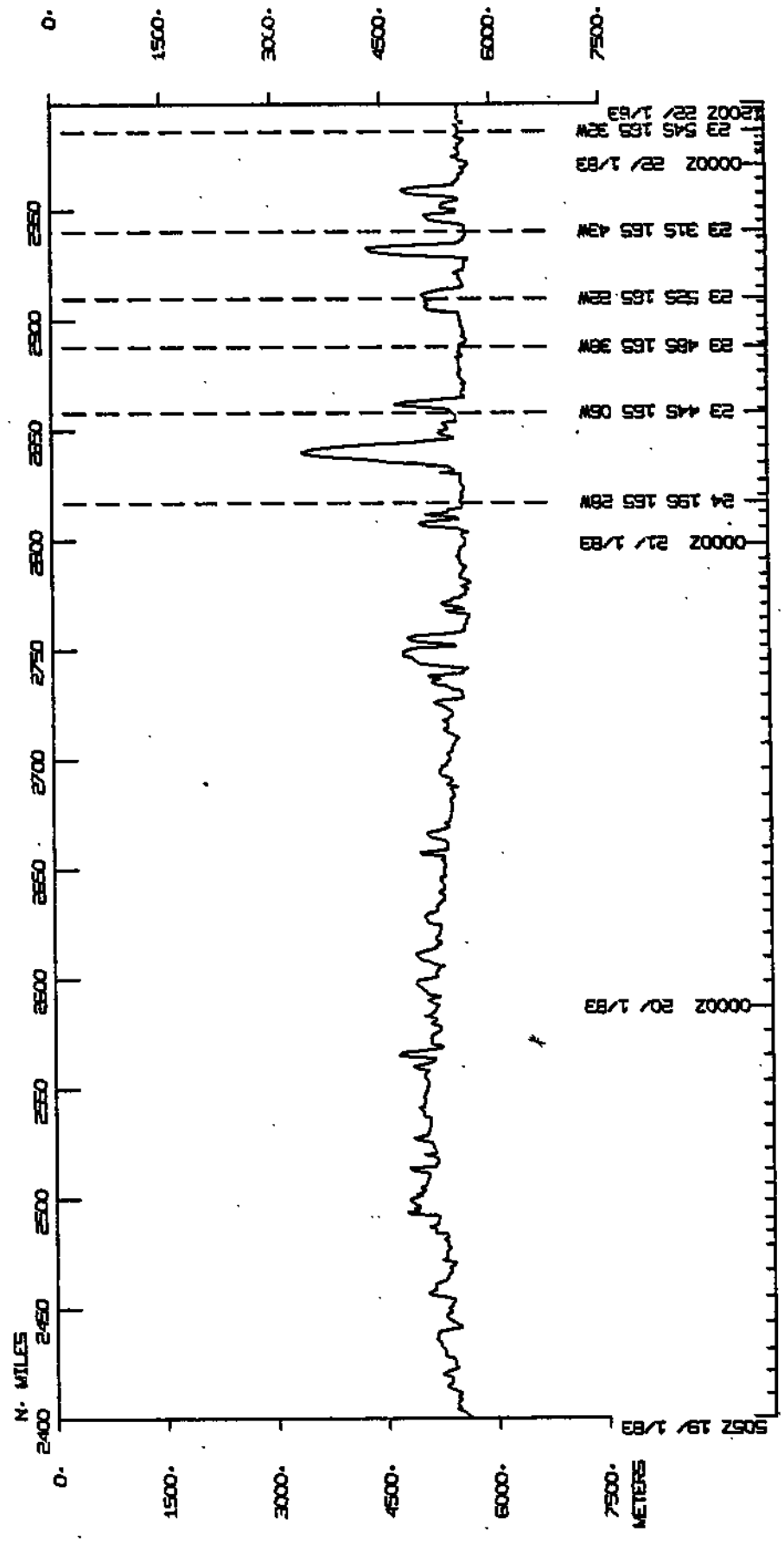
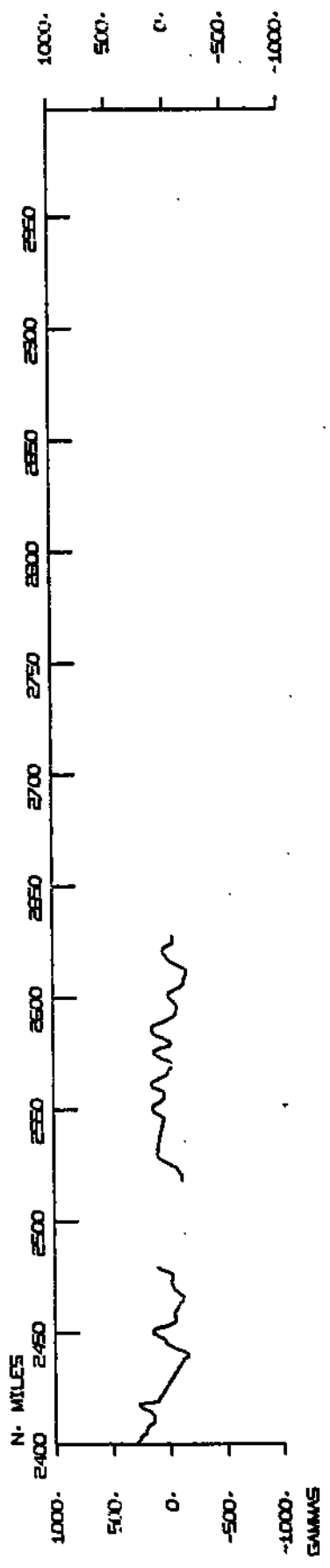


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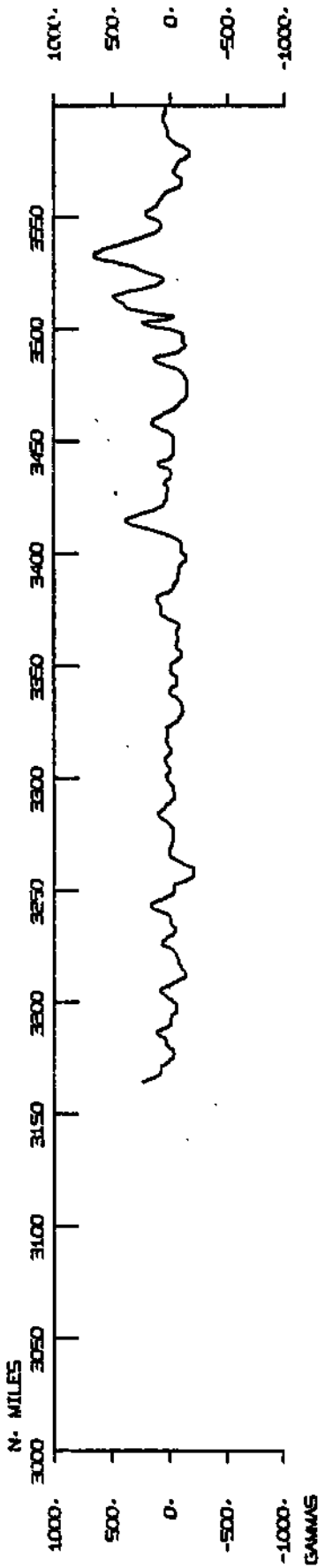
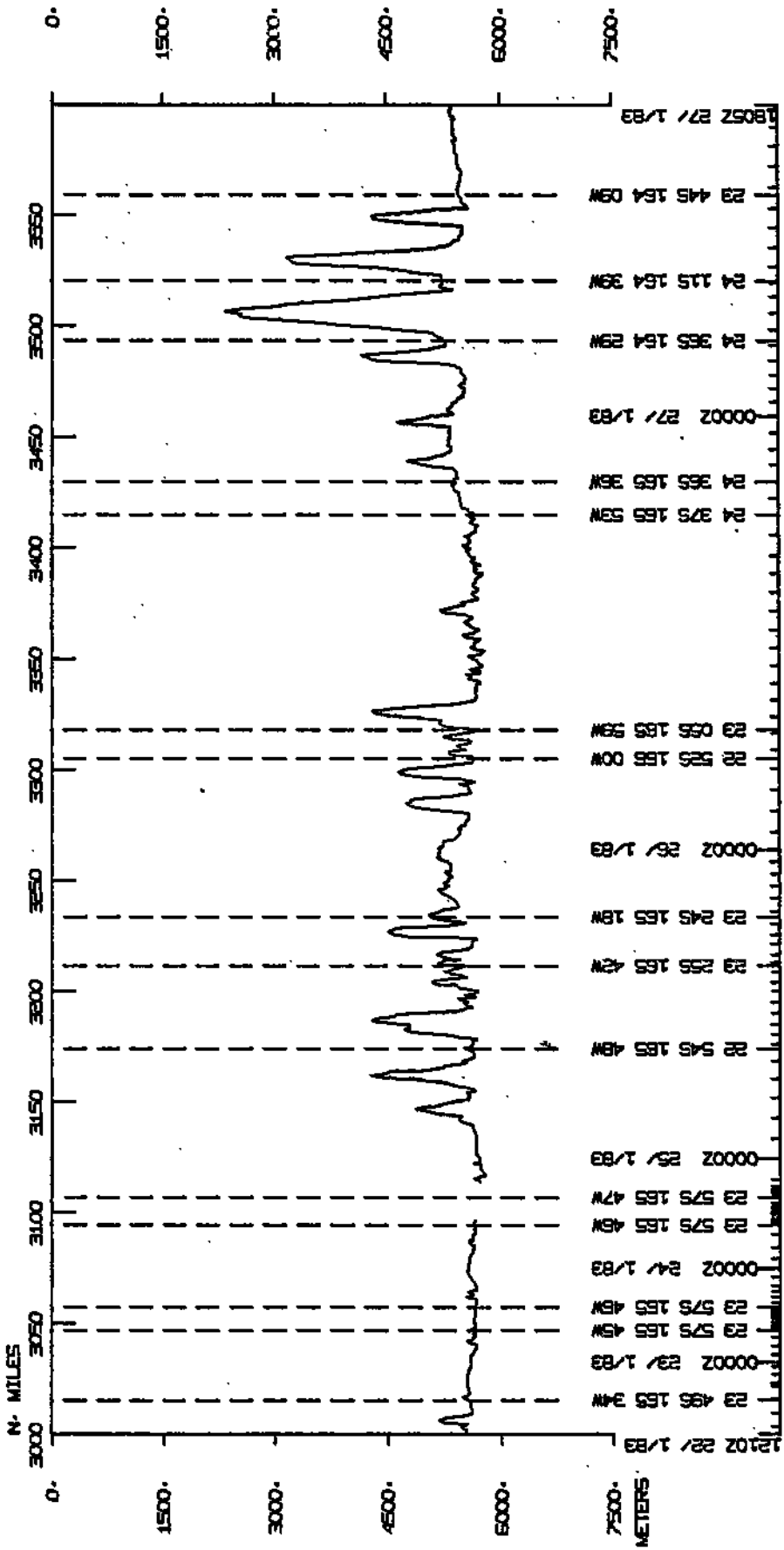
BNT404MV



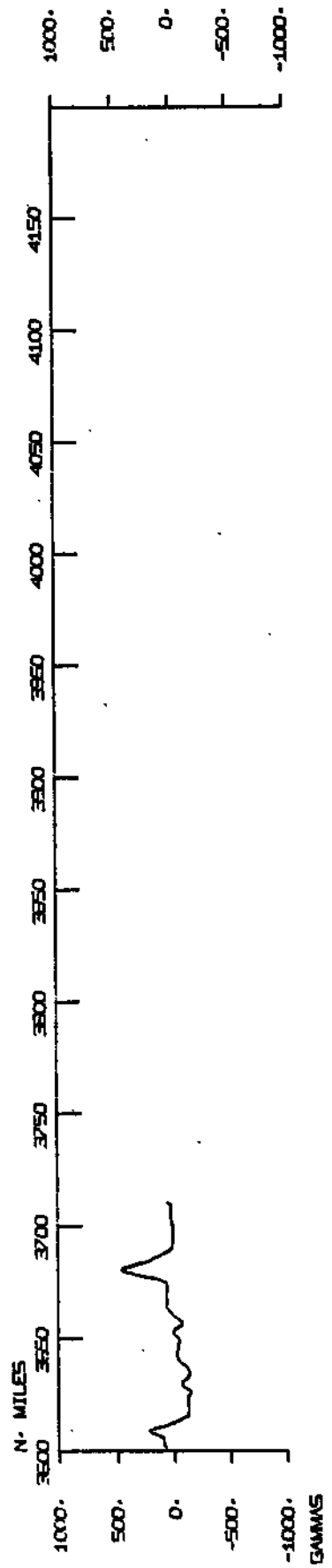
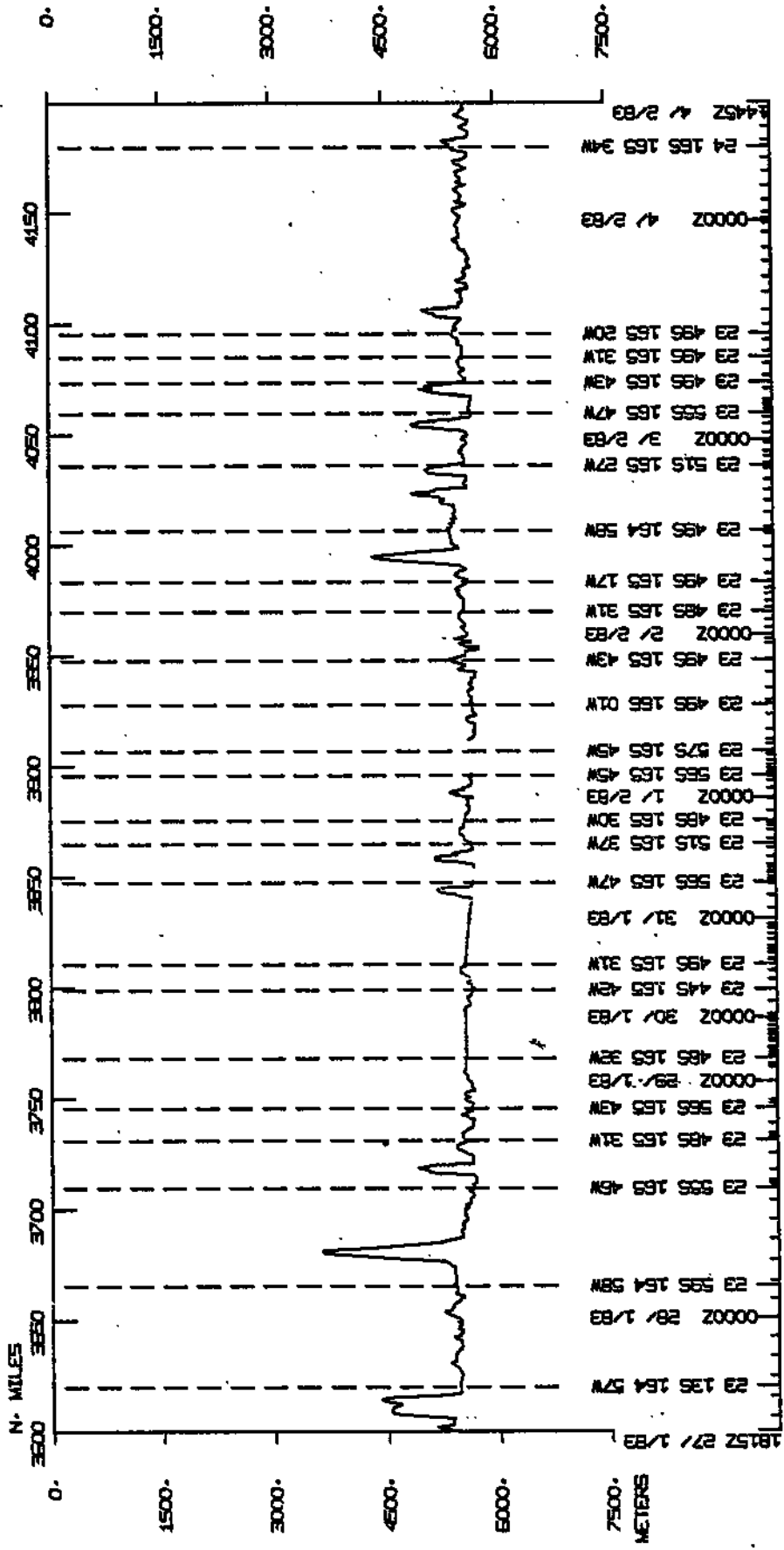
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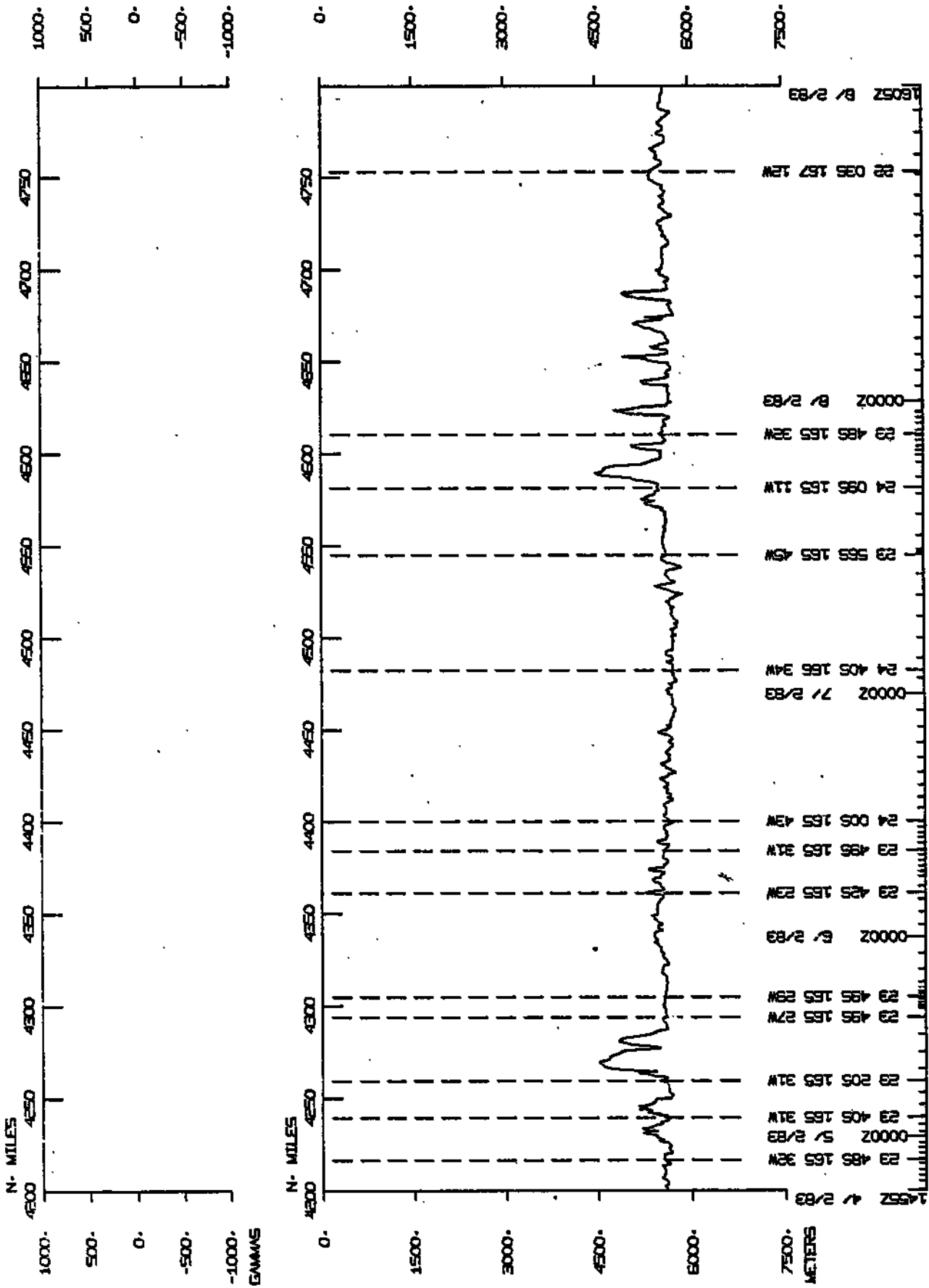
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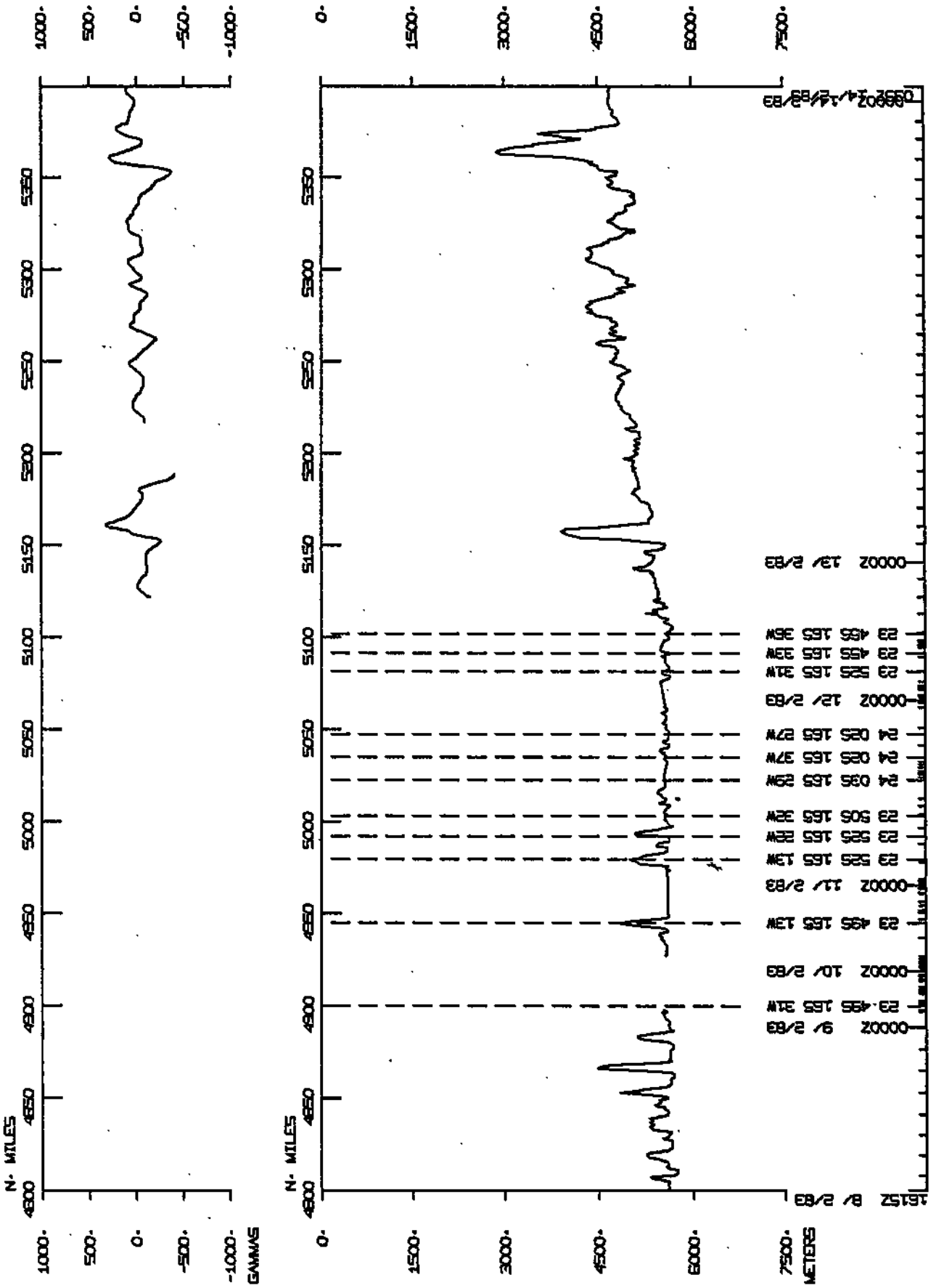
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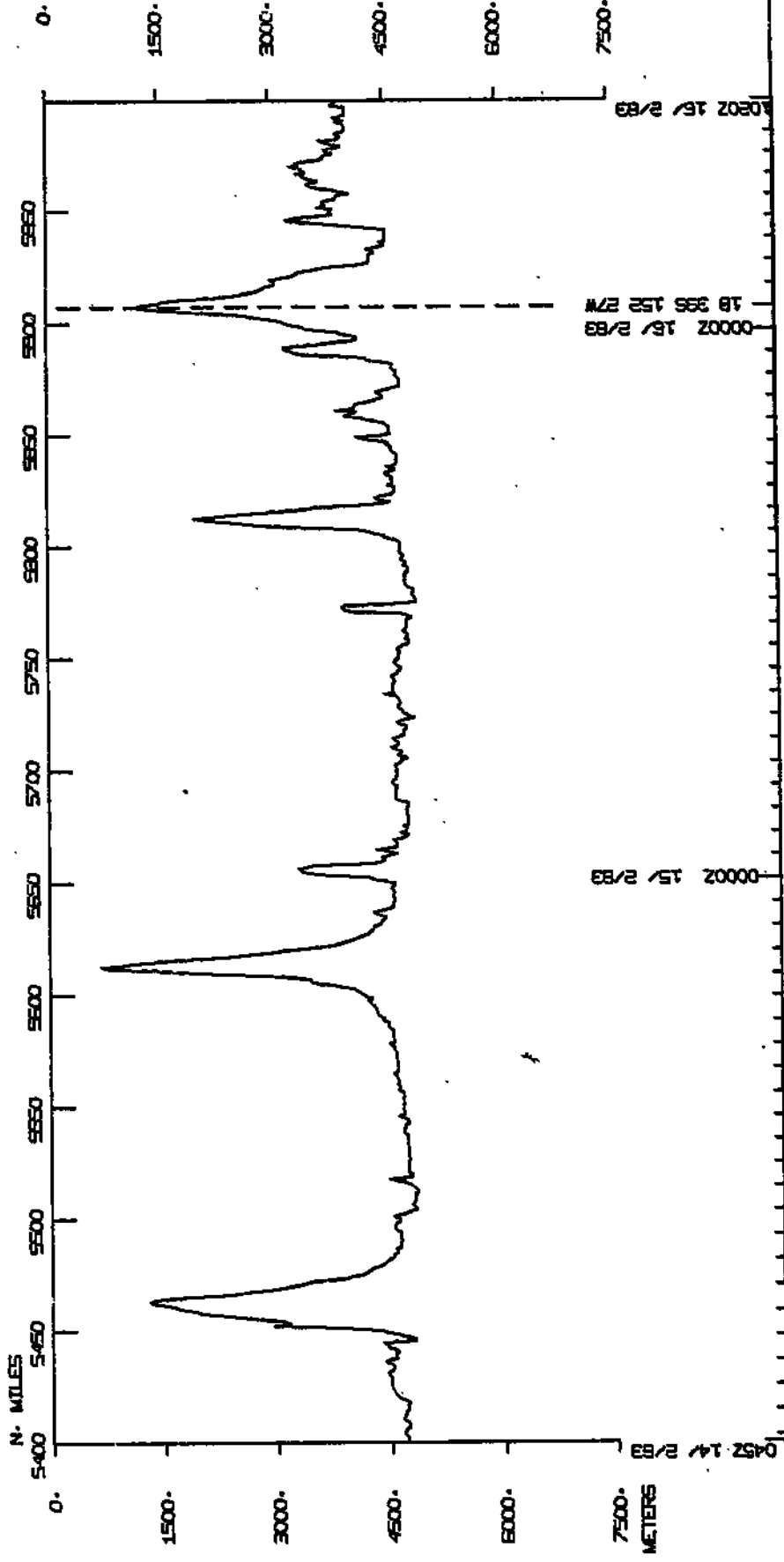
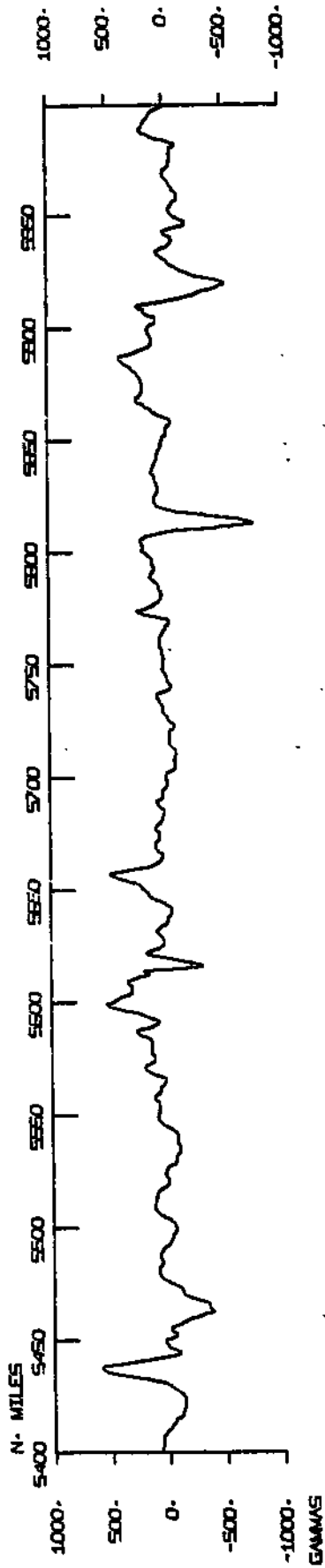
# BNTHO4MV



# ENTHO 4MV

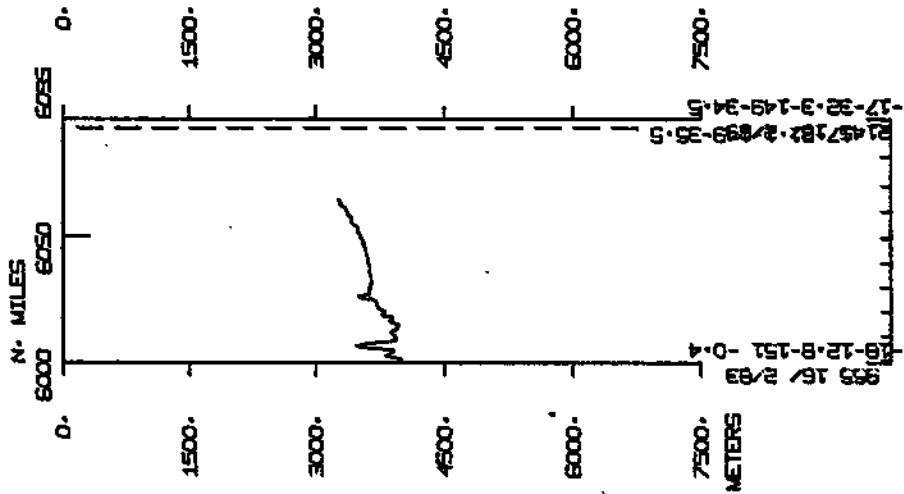
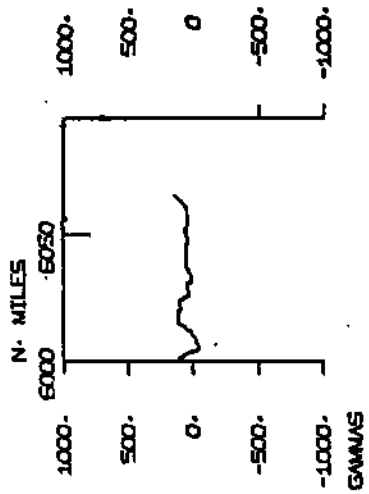


BNTHO4MV





# BNTHO4MV



88 16 2 3  
61-12-B-151 -0.4  
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17-32-2-149-24.5

S.I.O. Sample Index

(Issued March 1983)

BENTHIC EXPEDITION

Leg 4

Honolulu, Hawaii (9 January 1983)  
to  
Papeete, Tahiti (16 February 1983)

R/V Melville

Co-Chief Scientists - T. Jordan and J. Orcutt (SIO)

Resident Marine Tech - G. Pillard

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 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.)



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

DISP	TYPE											TOTAL		
	BT	CM	DP	GV	LB	MG	PE	SR	SP	SR				
DSD	I		4									I	4	
DSX	I						1					I	1	
GDC	I	77		7	2	1	2			8		I	97	
GRU	I							14	19			6	I	39
MTG	I							3				I	3	
SGG	I							1				I	1	
SIX	I							1				I	1	
UCJ	I							1				I	1	
TOTAL	I	77	4	7	2	1	2	21	19	8	6	I	147	

SAMPLE 'TYPE' CODES USED ABOVE

BT = BATHY THERMOGRAM  
 CM = CURRENT MEASUREMENT  
 DP = DEPTH  
 GV = GRAVITY  
 LB = LOG BOOKS  
 MG = MAGNETICS (TOWED VEHICLE, SURFACE, TOTAL FIELD)  
 PE = PERSONNEL IN SCIENTIFIC PARTY  
 SE = SEISMIC RUDY  
 SP = SEISMIC REFLECTION PROFILE AIRGUN  
 SR = SEISMIC RUN

SAMPLE 'DISP' CODES USED ABOVE

DSL = DEEP SEA DRILLING PROJECT -- H. LONG (EXT. 3506)  
 DSX = DEEP SEA DRILLING PROJECT NON-EMPLOYEE STATUS  
 DSA = CONTACT BAKHARA LONG EXT. 3506  
 GDC = GEOLOGICAL DATA CENTER -- S. SMITH (EXT. 2752)  
 GRU = GEOLOGICAL RESEARCH DIVISION (EXT. 3360)  
 MTG = MARINE TECHNOLOGY GROUP (EXT 4104)  
 SGG = SHIPENARD GEOPHYSICAL GROUP--P. CRAMPTON (EXT.2079)  
 SIX = SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)  
 UCJ = UNIV. CALIF. SAN DIEGO (UCSD)

11MAR83 PAGE 1

GMT D / M / Y TIME DATE	LOC LOC TIME TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
/ / 000		BENTHIC LEG 4	SAMPLE INDEX		00 00.	00 00.	BNTH04MV

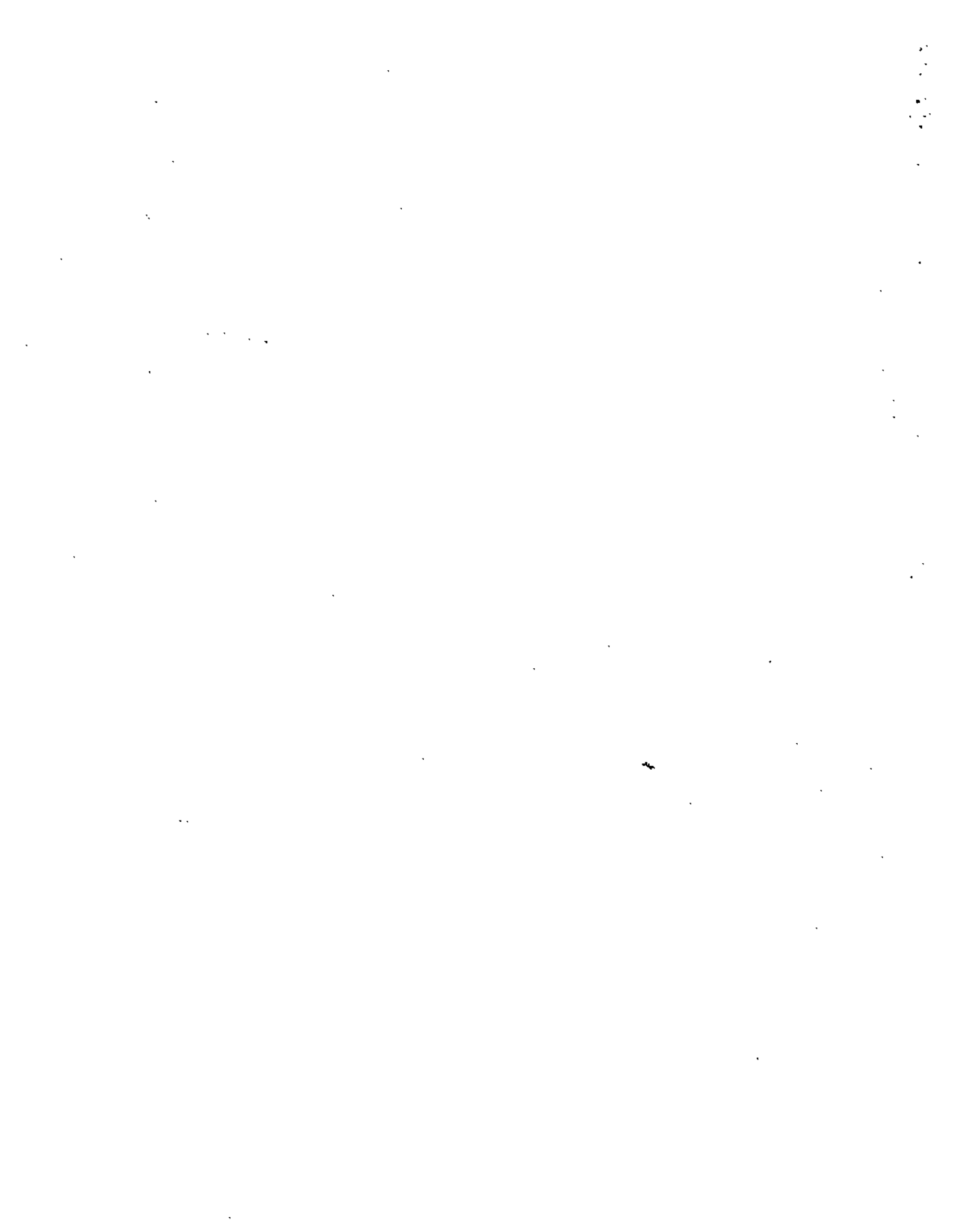
\*\*\* PORTS \*\*\*

0400 9/ 1/83		LGPT B HONOLULU, HAWAII			21 18.0N	157 52. W	F BNTH04MV
1000 16/ 2/83		LGPT E PAPAETI, TAHITI			17 32. S	149 34. W	F BNTH04MV

\*\*\* PERSONNEL \*\*\*

*** NAME ***	*** TITLE ***	*** AFFILIATION ***
1 KICUTT, J.A.	CHIEF SCIENTIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
2 JORDAN, T.H.	CHIEF SCIENTIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
3 ABRUTT, J.L.	COMPUTER TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
4 RUAZ, J.T.	EXPLOSIVES TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
5 BURNETT, M.S.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
6 DUPOUY, C.G.	OBSERVER	UNIV. CALIF. SAN DIEGO (UCSD)
7 HOLLINSHEAD, C.H.	DVLMT ENG	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
8 HUBERKA, F.	AIRGUN TECH.	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
9 KIM, I.I.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
10 LERNER-LAM, A.L.	POST DOC	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
11 PILLARD, S.G.	RESIDENT TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
12 RIEDESSL, M.A.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
13 PITZWILLER, M.H.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
14 SHAW, P.R.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
15 SHEARER, P.M.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
16 TOY, K.M.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
17 TRIMWELL, S.D.	OBSERVER (NOMDA)	DEEP SEA DRILLING PROJECT NON-EMPLOYEE STATUS
18 VALDES, C.M.	OBSERVER	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.
19 VAN BRUNGEN, C.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
20 WILLOUGHBY, D.F.	ELFC TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
21 WEEKS, D.E.	ELFC TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093

\*\*\* 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 THIS LEG.  
 (HOOKED 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 D / M / Y	LOC LOC	CODE	SAMPLE IDENT.	CODE	LAT.	LONG.	LEG-SHIP
TIME DATE	TIME TZ	SAMP		DISP			CRUISE

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

## \*\*\* LOG BOOKS \*\*\*

0400	10/01/83		LRUW B UNDERWAY LOG	GDC 20	25.5N	158 06.4W	S BNTH04MV
1630	16/02/83		LRUW E UNDERWAY LOG	GDC 17	45.2S	149 56.2W	S BNTH04MV

## \*\*\* FATHOGRAMS \*\*\*

0350	10/ 1/83		DPRT B EDO 12KHZ R-01	GDC 20	25.5N	158 06.4W	S BNTH04MV
2352	13/ 1/83		DPRT E EDO 12KHZ R-01	GDC 03	56.6N	160 58.0W	S BNTH04MV
0007	14/ 1/83		DPRT B EDO 12KHZ R-02	GDC 03	53.8N	160 58.3W	S BNTH04MV
0209	3/ 2/83		DPRT E EDO 12KHZ R-02	GDC 23	52.0S	165 45.0W	S BNTH04MV
0228	3/ 2/83		DPRT B EDO 12KHZ R-03	GDC 23	52.5S	165 46.0W	S BNTH04MV
1135	10/ 2/83		DPRT E EDO 12KHZ R-03	GDC 23	52.1S	165 17.2W	S BNTH04MV
2238	10/ 2/83		DPRT B EDO 12KHZ R-04	GDC 23	51.5S	165 17.7W	S BNTH04MV
1642	16/ 2/83		DPRT E EDO 12KHZ R-04	GDC 17	45.2S	149 56.2W	S BNTH04MV
2053	10/ 1/83		DPR3 B EDO 3.5KHZ R-01	GDC 17	13.2N	158 59.4W	S BNTH04MV
0625	19/ 1/83		DPR3 E EDO 3.5KHZ R-01	GDC 17	47.5S	165 25.8W	S BNTH04MV
0639	19/ 1/83		DPR3 R EDO 3.5KHZ R-02	GDC 17	49.9S	165 26.9W	S BNTH04MV
0043	22/ 1/83		DPR3 E EDO 3.5KHZ R-02	GDC 23	47.1S	165 32.4W	S BNTH04MV
0752	22/ 1/83		DPR3 B EDO 3.5KHZ R-03	GDC 23	51.7S	165 32.2W	S BNTH04MV
0200	6/ 2/83		DPR3 E EDO 3.5KHZ R-03	GDC 23	35.1S	165 15.5W	S BNTH04MV

## \*\*\* MAGNETOMETER \*\*\*

0440	10/ 1/83		MGRA B MAGNETICS R-01	GDC 20	18.0N	158 08.2W	S BNTH04MV
0913	26/ 1/83		MGRA E MAGNETICS R-01	GDC 23	24.0S	165 53.8W	S BNTH04MV
0924	26/ 1/83		MGRA B MAGNETICS R-02	GDC 23	25.4S	165 53.9W	S BNTH04MV
1640	16/ 2/83		MGRA E MAGNETICS R-02	GDC 17	45.3S	149 56.5W	S BNTH04MV

## \*\*\*GRAVIMETRIC RECORDS\*\*\* CURATOR L.M. DORMAN (EXT.2406)

1000	10/ 1/83		GVRA B GRAVIMETER R-01	GDC 19	17.5N	158 24.2W	S BNTH04MV
1000	16/ 2/83		GVRA C GRAVIMETER R-01	GDC 18	12.5S	150 59.5W	S BNTH04MV

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

## \*\*\*SEISMIC REFLECTION PROFILER\*\*\*

0106 18/ 1/83		SPRF B	AIRGUN FAST R-01	GDC 13	08.3S	162 45.2W	S BNTH04MV
0043 21/ 1/83		SPRF E	2-SEC FFC-2	GDC 24	06.4S	165 29.3W	S BNTH04MV
0710 22/ 1/83		SPRF B	AIRGUN FAST R-02	GDC 23	49.1S	165 32.0W	S BNTH04MV
1049 22/ 1/83		SPRF E	4-SEC FFC-2	GDC 23	47.5S	165 31.7W	S BNTH04MV
0106 27/ 1/83		SPRF B	AIRGUN FAST R-03	GDC 24	34.7S	164 58.6W	S BNTH04MV
0837 27/ 1/83		SPRF E	4-SEC FFC-2	GDC 24	14.0S	164 38.4W	S BNTH04MV
0106 18/ 1/83		SPRF B	AIRGUN-FAST R-01	GDC 13	08.3S	162 45.2W	S BNTH04MV
1705 19/ 1/83		SPRF E	4-SEC FFC-3	GDC 19	18.2S	166 00.3W	S BNTH04MV
0359 20/ 1/83		SPRF B	AIRGUN-FAST R-02	GDC 21	14.3S	165 44.2W	S BNTH04MV
1230 21/ 1/83		SPRF E	4-SEC FFC-3	GDC 23	53.1S	165 38.2W	S BNTH04MV
1245 21/ 1/83		SPRF B	AIRGUN FAST R-03	GDC 23	54.7S	165 38.1W	S BNTH04MV
0043 22/ 1/83		SPRF E	4-SEC FFC-3	GDC 23	47.1S	165 32.4W	S BNTH04MV
0710 22/ 1/83		SPRF B	AIRGUN FAST R-04	GDC 23	49.1S	165 32.0W	S BNTH04MV
1049 22/ 1/83		SPRF E	4-SEC FFC-3	GDC 23	47.5S	165 31.7W	S BNTH04MV
0106 27/ 1/83		SPRF B	AIRGUN FAST R-05	GDC 24	34.7S	164 58.6W	S BNTH04MV
0824 27/ 1/83		SPRF E	4-SEC FFC-3	GDC 24	14.3S	164 38.2W	S BNTH04MV

## \*\*\*SEISMIC RUN - REFRACTION AND/OR WIDE ANGLE REFLECTION

1809 1/ 2/83		SRCS B	LINE-01 SP,EX,OR	GRD 23	49.8S	166 02.0W	S BNTH04MV
1159 2/ 2/83		SRCS E	HS,AD	GRD 23	49.4S	165 00.3W	S BNTH04MV
0930 3/ 2/83		SRCS B	LINE-02 AN,EX,OR	GRD 23	49.4S	165 43.0W	S BNTH04MV
1923 3/ 2/83		SRCS E	HS,AD	GRD 23	48.7S	165 24.8W	S BNTH04MV
1205 4/ 2/83		SRCS B	LINE-03 SP,EX,OR	GRD 24	15.0S	165 32.0W	S BNTH04MV
0549 5/ 2/83		SRCS E	HS,AD	GRD 23	21.3S	165 31.4W	S BNTH04MV
0109 6/ 2/83		SRCS B	LINE-04 SP,EX,OR,MSS	GRD 23	30.1S	165 10.9W	S BNTH04MV
0034 7/ 2/83		SRCS E	HS,AD	GRD 24	45.2S	166 32.3W	S BNTH04MV
1229 7/ 2/83		SRCS B	LINE-05 SP,EX,OR,MSS	GRD 24	08.5S	165 11.7W	S BNTH04MV
1159 8/ 2/83		SRCS E	HS,AD	GRD 22	04.5S	167 12.5W	S BNTH04MV
0818 11/ 2/83		SRCS B	LINE-06 SP,EX,OR,MSS	GRD 23	49.1S	165 32.0W	S BNTH04MV
0944 11/ 2/83		SRCS E	HS,AD	GRD 23	53.7S	165 35.7W	S BNTH04MV



GMT TIME	D / M / Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP
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## \*\*\*SONOBUOY - OCEAN BOTTOM SEISMOMETER\*\*\*

0620	23/ 1/83			SR08 B	OBS-PHRFD	GRD 23	56.7S	165 45.6W	F BNTH04MV
0720	7/ 2/83			SR08 E	OBS-PHRFD	5630M GRD 23	56.7S	165 44.7W	S BNTH04MV
0625	24/ 1/83			SR08 B	OBS-JANICE	GRD 23	55.9S	165 47.2W	F BNTH04MV
0645	31/ 1/83			SR08 E	OBS-JANICE	5660M GRD 23	56.3S	165 47.5W	S BNTH04MV
0102	29/ 1/83			SR08 B	OBS-KARFN	GRD 23	49.0S	165 31.8W	F BNTH04MV
0631	9/ 2/83			SR08 E	OBS-KARFN	5570M GRD 23	49.0S	165 32.3W	S BNTH04MV
1055	29/ 1/83			SR08 B	OBS-JUAN	GRD 23	49.3S	165 31.5W	F BNTH04MV
0359	9/ 2/83			SR08 E	OBS-JUAN	5565M GRD 23	49.4S	165 31.8W	S BNTH04MV
0038	30/ 1/83			SR08 B	OBS-SUZY	GRD 23	49.1S	165 31.4W	F BNTH04MV
0420	10/ 2/83			SR08 E	OBS-SUZY	5570M GRD 23	49.3S	165 31.0W	S BNTH04MV
1125	30/ 1/83			SR08 B	OBS-LYNN	GRD 23	49.3S	165 31.6W	F BNTH04MV
0640	10/ 2/83			SR08 E	OBS-LYNN	5565M GRD 23	49.3S	165 31.8W	S BNTH04MV
1432	5/ 2/83			SR08 B	OBS-JANICE	GRD 23	49.1S	165 31.6W	F BNTH04MV
1000	16/ 2/83			SR08 C	OBS-JANICE	5565M GRD 18	12.5S	150 59.5W	S BNTH04MV
2045	9/ 2/83			SR08 B	OBS-PHRFD	GRD 23	49.2S	165 32.7W	F BNTH04MV
1000	16/ 2/83			SR08 C	OBS-PHRFD	5500M GRD 18	12.5S	150 59.5W	S BNTH04MV
1135	10/ 2/83			SR08 B	OBS-JUAN	GRD 23	51.9S	165 17.6W	F BNTH04MV
0119	11/ 2/83			SR08 E	OBS-JUAN	5595M GRD 23	51.5S	165 17.4W	S BNTH04MV
2246	10/ 2/83			SR08 B	OBS-SUZY	GRD 23	51.8S	165 18.1W	F BNTH04MV
1000	16/ 2/83			SR08 C	OBS-SUZY	5610M GRD 18	12.5S	150 59.5W	S BNTH04MV
1124	11/ 2/83			SR08 B	OBS-JUAN	GRD 24	02.6S	165 32.0W	F BNTH04MV
1000	16/ 2/83			SR08 C	OBS-JUAN	5532M GRD 18	12.5S	150 59.5W	S BNTH04MV
2142	11/ 2/83			SR08 B	OBS-KARFN	GRD 23	48.6S	165 32.2W	F BNTH04MV
1000	16/ 2/83			SR08 C	OBS-KARFN	5545M GRD 18	12.5S	150 59.5W	S BNTH04MV
1357	12/ 2/83			SR08 B	OBS-LYNN	GRD 23	48.8S	165 32.3W	F BNTH04MV
1000	16/ 2/83			SR08 C	OBS-LYNN	5503M GRD 18	12.5S	150 59.5W	S BNTH04MV

## \*\*\*CURRENT MEASUREMENT\*\*\*

1455	28/ 1/83			CMXX B	CURRENT METER	DSD 23	48.9S	165 31.9W	S BNTH04MV
1630	28/ 1/83			CMXX E	TETHERED TO 250M	DSD 23	48.9S	165 31.9W	S BNTH04MV
0600	29/ 1/83			CMXX B	CURRENT METER	DSD 23	49.1S	165 31.5W	S BNTH04MV
1000	29/ 1/83			CMXX E	TETHERED TO 1000M	DSD 23	49.4S	165 33.1W	S BNTH04MV
1445	31/ 1/83			CMXX B	CURRENT METER TEMP	DSD 23	49.3S	165 32.5W	S BNTH04MV
1735	31/ 1/83			CMXX E	TETHERED TO 1000M	DSD 23	49.1S	165 31.9W	S BNTH04MV

GMT D /M /Y		LOC LOC	CODE	SAMPLE IDENT.	CODE	11MAR83 PAGE		5	LEG-SHIP
TIME	DATE	TIME TZ	SAMP		DISP	LAT.	LONG.		CRUISE
0230	4/ 2/83		CMXX B	CURRENT METER TEMP	DSD 23	49.1S	165 31.6W	S	BNTH04MV
0500	4/ 2/83		CMXX E	TETHERED TO 500M	DSD 23	48.8S	165 31.7W	S	BNTH04MV

\*\*\* BATHYTHERMOGRAPH \*\*\*

1844	10/ 1/83		BTXP	XBT-01	NQAA	GDC 17	35.2N	158 53.8W	S	BNTH04MV	
2212	10/ 1/83		BTXP	XBT-02	NQAA	GDC 16	59.5N	159 02.7W	S	BNTH04MV	
0502	11/ 1/83		BTXP	XBT-03	NQAA	GDC 15	59.0N	159 19.1W	S	BNTH04MV	
1018	11/ 1/83		BTXP	XBT-04	NQAA	GDC 15	09.5N	159 28.7W	S	BNTH04MV	
1819	11/ 1/83		BTXP	XBT-05	NQAA	GDC 13	45.2N	159 46.7W	S	BNTH04MV	
1837	11/ 1/83		BTXP	XBT-01	SIO	NORDA	GDC 13	42.8N	159 47.3W	S	BNTH04MV
2245	11/ 1/83		BTXP	XBT-06	NQAA	GDC 13	00.6N	159 55.1W	S	BNTH04MV	
0442	12/ 1/83		BTXP	XBT-07	NQAA	GDC 11	54.3N	160 07.2W	S	BNTH04MV	
0642	12/ 1/83		BTXP	XBT-02	SIO	NORDA	GDC 11	32.4N	160 13.4W	S	BNTH04MV
1012	12/ 1/83		BTXP	XBT-08	NQAA	GDC 10	60.0N	160 20.7W	S	BNTH04MV	
1601	12/ 1/83		BTXP	XBT-09	NQAA	GDC 09	53.9N	160 28.1W	S	BNTH04MV	
1837	12/ 1/83		BTXP	XBT-03	SIO	NORDA	GDC 09	23.4N	160 29.4W	S	BNTH04MV
2100	12/ 1/83		BTXP	XBT-10	NQAA	GDC 08	58.1N	160 30.5W	S	BNTH04MV	
2325	12/ 1/83		BTXP	XBT-11	NQAA	GDC 08	30.3N	160 31.9W	S	BNTH04MV	
0201	13/ 1/83		BTXP	XBT-12	NQAA	GDC 07	59.5N	160 35.5W	S	BNTH04MV	
0436	13/ 1/83		BTXP	XBT-13	NQAA	GDC 07	30.3N	160 38.7W	S	BNTH04MV	
0632	13/ 1/83		BTXP	XBT-04	SIO	NORDA	GDC 07	08.6N	160 39.6W	S	BNTH04MV
0732	13/ 1/83		BTXP	XBT-14	NQAA	GDC 07	00.4N	160 40.1W	S	BNTH04MV	
1032	13/ 1/83		BTXP	XBT-15	NQAA	GDC 06	26.2N	160 42.0W	S	BNTH04MV	
1326	13/ 1/83		BTXP	XBT-16	NQAA	GDC 05	53.3N	160 44.0W	S	BNTH04MV	
1808	13/ 1/83		BTXP	XBT-17	NQAA	GDC 04	60.0N	160 49.0W	S	BNTH04MV	
1832	13/ 1/83		BTXP	XBT-05	SIO	NORDA	GDC 04	55.4N	160 49.4W	S	BNTH04MV
2052	13/ 1/83		BTXP	XBT-18	NQAA	GDC 04	31.2N	160 53.1W	S	BNTH04MV	
2338	13/ 1/83		BTXP	XBT-19	NQAA	GDC 03	59.3N	160 57.7W	S	BNTH04MV	
0228	14/ 1/83		BTXP	XBT-20	NQAA	GDC 03	26.7N	161 00.9W	S	BNTH04MV	
0445	14/ 1/83		BTXP	XBT-21	NQAA	GDC 02	59.9N	161 03.1W	S	BNTH04MV	
0628	14/ 1/83		BTXP	XBT-06	SIO	NORDA	GDC 02	40.0N	161 03.5W	S	BNTH04MV
0741	14/ 1/83		BTXP	XBT-22	NQAA	GDC 02	28.6N	161 04.7W	S	BNTH04MV	
1004	14/ 1/83		BTXP	XBT-23	NQAA	GDC 02	00.4N	161 07.8W	S	BNTH04MV	
1516	14/ 1/83		BTXP	XBT-24	NQAA	GDC 00	59.8N	161 15.1W	S	BNTH04MV	
1746	14/ 1/83		BTXP	XBT-25	NQAA	GDC 00	29.2N	161 18.6W	S	BNTH04MV	
1832	14/ 1/83		BTXP	XBT-07	SIO	NORDA	GDC 00	20.1N	161 19.8W	S	BNTH04MV
2045	14/ 1/83		BTXP	XBT-26	NQAA	GDC 00	01.9S	161 20.5W	S	BNTH04MV	
2318	14/ 1/83		BTXP	XBT-27	NQAA	GDC 00	30.1S	161 20.3W	S	BNTH04MV	
0202	15/ 1/83		BTXP	XBT-28	NQAA	GDC 01	00.2S	161 24.3W	S	BNTH04MV	
0447	15/ 1/83		BTXP	XBT-29	NQAA	GDC 01	31.2S	161 27.3W	S	BNTH04MV	
0630	15/ 1/83		BTXP	XBT-08	SIO	NORDA	GDC 01	50.2S	161 28.8W	S	BNTH04MV
0732	15/ 1/83		BTXP	XBT-30	NQAA	GDC 02	00.4S	161 29.2W	S	BNTH04MV	
1020	15/ 1/83		BTXP	XBT-31	NQAA	GDC 02	31.2S	161 31.6W	S	BNTH04MV	
1307	15/ 1/83		BTXP	XBT-32	NQAA	GDC 03	00.3S	161 34.5W	S	BNTH04MV	
1613	15/ 1/83		BTXP	XBT-33	NQAA	GDC 03	31.3S	161 41.9W	S	BNTH04MV	
1832	15/ 1/83		BTXP	XBT-09	SIO	NORDA	GDC 03	53.6S	161 45.2W	S	BNTH04MV
1928	15/ 1/83		BTXP	XBT-34	NQAA	GDC 04	00.4S	161 46.3W	S	BNTH04MV	
2214	15/ 1/83		BTXP	XBT-35	NQAA	GDC 04	27.2S	161 50.5W	S	BNTH04MV	
0147	16/ 1/83		BTXP	XBT-36	NQAA	GDC 05	02.0S	161 54.4W	S	BNTH04MV	
0431	16/ 1/83		BTXP	XBT-37	NQAA	GDC 05	30.7S	161 55.7W	S	BNTH04MV	
0629	16/ 1/83		BTXP	XBT-10	SIO	NORDA	GDC 05	52.1S	161 56.3W	S	BNTH04MV

						11MAR83		PAGE		6		
GMT TIME	D / M / Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP	CRUISE		
0725	16/ 1/83			BTXP	XBT-38	NQAA	GNC 06	00.45 161	57.5W	S	BNTH04MV	
1026	16/ 1/83			BTXP	XBT-39	NQAA	GNC 06	33.45 162	03.7W	S	BNTH04MV	
1452	16/ 1/83			BTXP	XBT-40	NQAA	GNC 07	24.85 162	08.0W	S	BNTH04MV	
1803	16/ 1/83			BTXP	XBT-41	NQAA	GNC 08	02.15 162	10.1W	S	BNTH04MV	
1831	16/ 1/83			BTXP	XBT-41	SIO	NORDA	GNC 08	07.65 162	10.5W	S	BNTH04MV
2052	16/ 1/83			BTXP	XBT-42	NQAA	GNC 08	32.95 162	11.1W	S	BNTH04MV	
0151	17/ 1/83			BTXP	XBT-43	NQAA	GNC 09	00.25 162	11.6W	S	BNTH04MV	
0458	17/ 1/83			BTXP	XBT-44	NQAA	GNC 09	31.55 162	14.4W	S	BNTH04MV	
0624	17/ 1/83			BTXP	XBT-42	SIO	NORDA	GNC 09	51.65 162	18.1W	S	BNTH04MV
0725	17/ 1/83			BTXP	XBT-45	NQAA	GNC 09	59.95 162	19.6W	S	BNTH04MV	
1205	17/ 1/83			BTXP	XBT-46	NQAA	GNC 11	00.95 162	28.0W	S	BNTH04MV	
1827	17/ 1/83			BTXP	XBT-47	NQAA	GNC 12	00.35 162	38.0W	S	BNTH04MV	
1830	17/ 1/83			BTXP	XBT-43	SIO	NORDA	GNC 12	00.95 162	38.0W	S	BNTH04MV
0005	18/ 1/83			BTXP	XBT		GNC 13	03.25 162	43.2W	S	BNTH04MV	
0015	18/ 1/83			BTXP	XBT-48	NQAA	GNC 13	05.05 162	43.2W	S	BNTH04MV	
0631	18/ 1/83			BTXP	XBT-44	SIO	NORDA	GNC 13	51.45 163	20.3W	S	BNTH04MV
0745	18/ 1/83			BTXP	XBT-49	NQAA	GNC 14	02.25 163	25.3W	S	BNTH04MV	
1234	18/ 1/83			BTXP	XBT-50	NQAA	GNC 15	02.25 163	56.1W	S	BNTH04MV	
1833	18/ 1/83			BTXP	XBT-45	SIO	NORDA	GNC 15	49.65 164	26.0W	S	BNTH04MV
1955	18/ 1/83			BTXP	XBT-51	NQAA	GNC 16	00.25 164	32.7W	S	BNTH04MV	
0147	19/ 1/83			BTXP	XBT-52	NQAA	GNC 16	59.55 165	02.5W	S	BNTH04MV	
0631	19/ 1/83			BTXP	XBT-46	SIO	NORDA	GNC 17	48.55 165	26.2W	S	BNTH04MV
0805	19/ 1/83			BTXP	XBT-53	NQAA	GNC 18	02.95 165	33.3W	S	BNTH04MV	
1620	19/ 1/83			BTXP	XBT-54	NQAA	GNC 19	13.25 166	00.6W	S	BNTH04MV	
1831	19/ 1/83			BTXP	XBT-47	SIO	NORDA	GNC 19	33.35 165	58.5W	S	BNTH04MV
2104	19/ 1/83			BTXP	XBT-55	NQAA	GNC 19	59.75 165	54.9W	S	BNTH04MV	
0831	28/ 1/83			BTXP	XBT		GNC 23	55.35 165	48.1W	S	BNTH04MV	
2325	14/ 2/83			BTXP	XBT-56	NQAA	GNC 19	59.15 156	48.6W	S	BNTH04MV	
1240	15/ 2/83			BTXP	XBT-57	NQAA	GNC 18	59.55 154	25.8W	S	BNTH04MV	
1251	16/ 2/83			BTXP	XBT-58	NQAA	GNC 18	01.25 150	33.4W	S	BNTH04MV	

9900

END SAMPLE INDEX

BNTH04MV