

INFORMAL REPORT AND INDEX OF  
NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA  
(Issued September 1982)

CERES EXPEDITION

LEG 2

San Diego, California (8 July 1982)  
to  
Acapulco, Mexico (8 August 1982)

R/V T. Washington

Co-Chief Scientists - J. Mammerickx (SIO)  
K. MacDonald (U.C.S.B.)

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 ONR-0440  
Data Processing funded by SIA 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.# - 201

INFORMAL REPORT AND INDEX OF NAVIGATION, DEPTH (SEA BEAM),  
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.

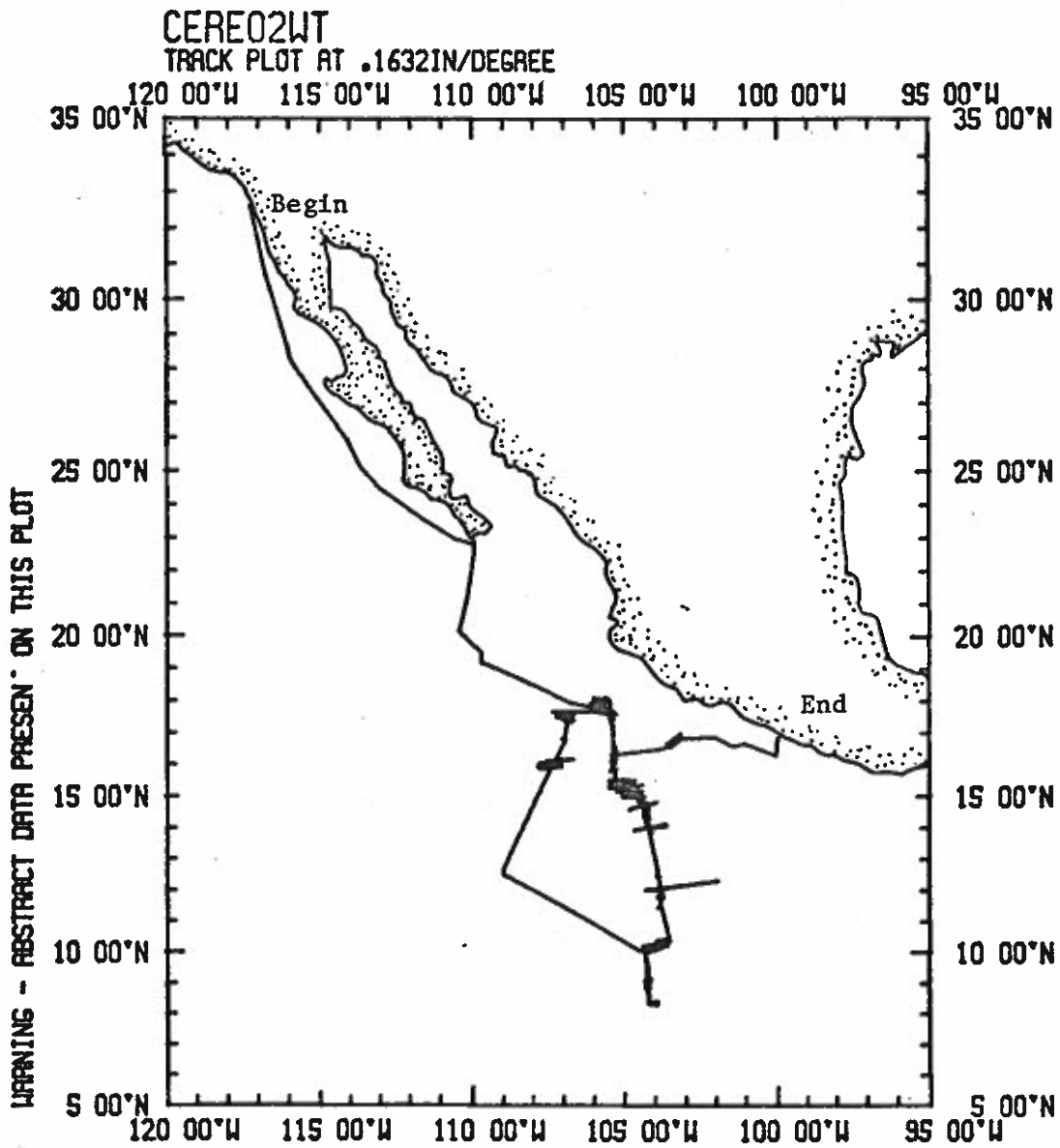
1. Navigation listing of times and positions of course and speed changes, fixes and drift velocity.
2. Depth Compilation Plots - Compilation plots at the traditional scale of 4"/degree longitude (1:1,000,000) are no longer produced for Sea Beam cruises. Custom plots may be requested of vertical beam (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 or 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

## S.I.O. Sea Beam Data

As of June 1982 the institution's procedures for handling Sea Beam data are still evolving. The following forms are available, subject to approval of the cruise leg chief scientist.

- 1) Archive copy of contour swath books generated in real time on board ship available for inspection at the data center.
- 2) Microfilm (35mm flowfilm) containing swath books plus, for some cruises, the UGR monitor record and navigation listings.
- 3) Sea Beam merged tapes - Sea Beam data merged with navigation (navigation is edited to the extent that poor fixes are removed after inspection of drift vectors between fix pairs. No editing is done on the basis of adjusting to overlapping Sea Beam swaths.)
- 4) Custom generated plots of Sea Beam swaths on Mercator projection in four colors at variable plot scales and contour intervals. There are provisions to adjust positions of individual track lines and to edit out beams (bad data or overlapping data on inside of turns).

S. M. Smith June 1982



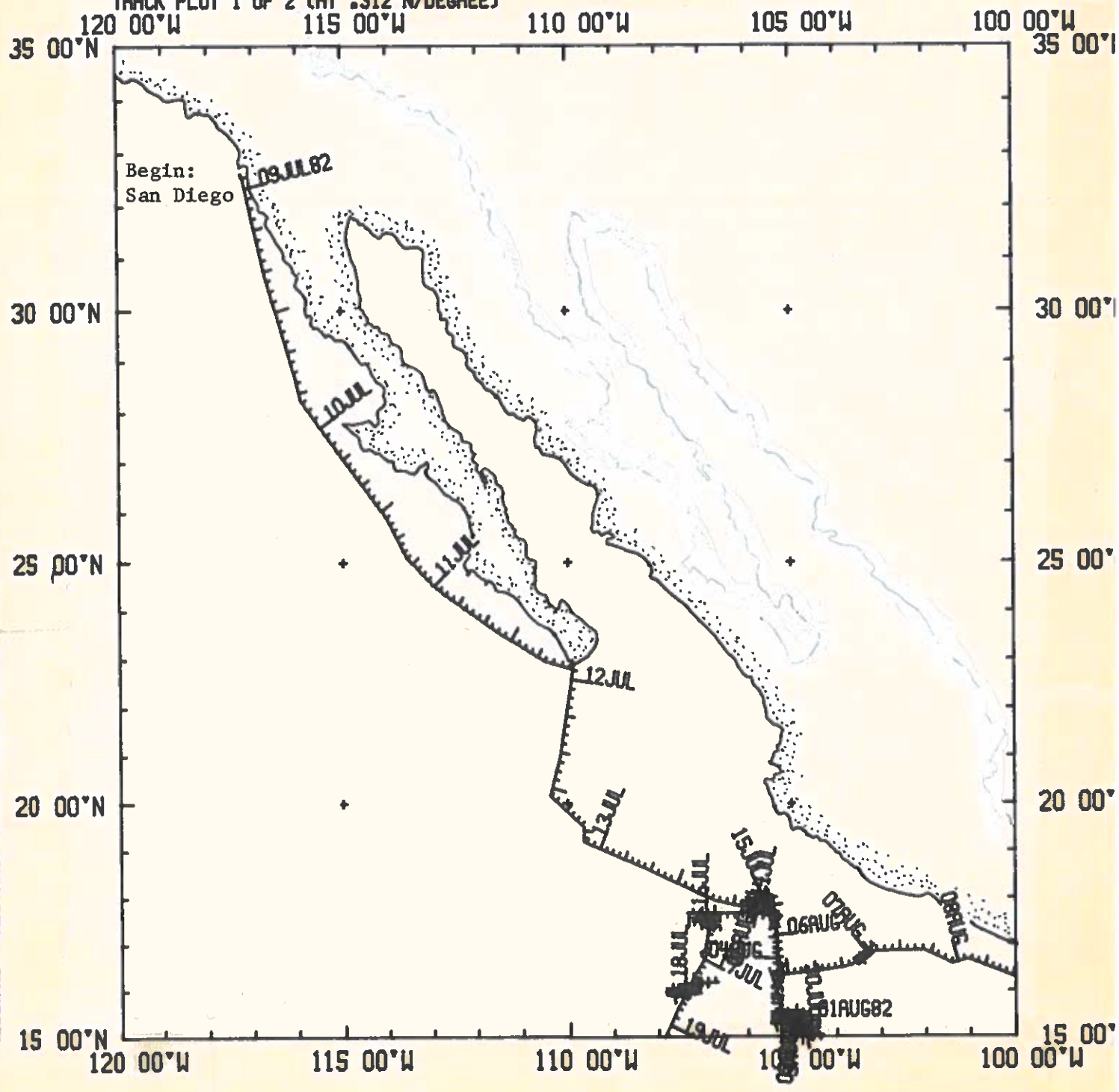
CERES EXPEDITION  
 LEG 2

Co-Chief Scientists: J. Mammerickx (SIO) & K. MacDonald (U.C.S.B.)  
 Ports: San Diego, Calif. - Acapulco, Mexico  
 Dates: 8 July - 8 August 1982  
 Ship: R/V T. Washington

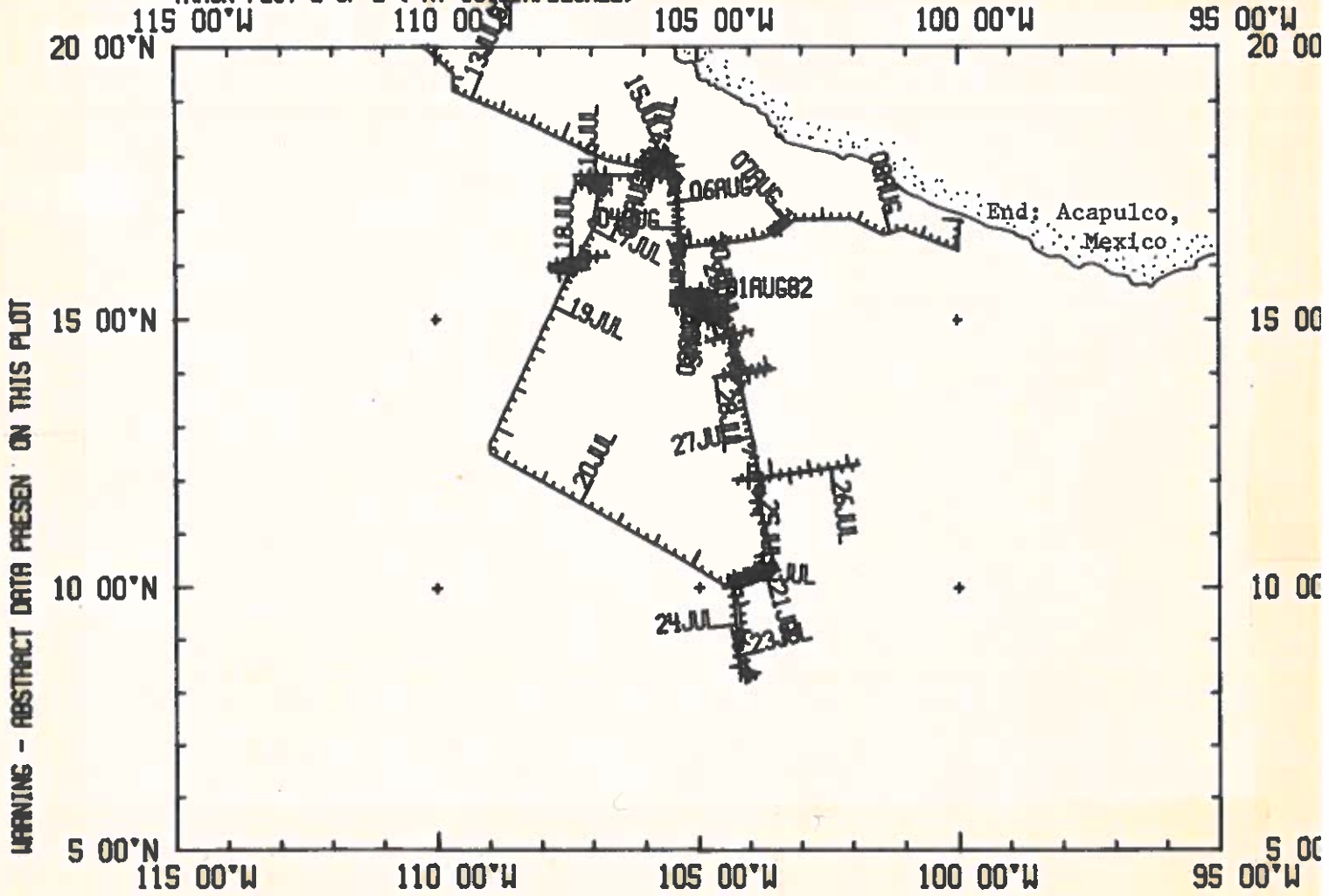
TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

- 1) Cruise - 7637 miles
- 2) Bathymetry - 7337 miles
- 3) Magnetics - 7161 miles
- 4) Seismic Reflection - none collected
- 5) Gravity - 7584 miles
- 6) Seabeam - 7607 miles

CERE02WT  
TRACK PLOT 1 OF 2 (AT .312°N/DEGREE)

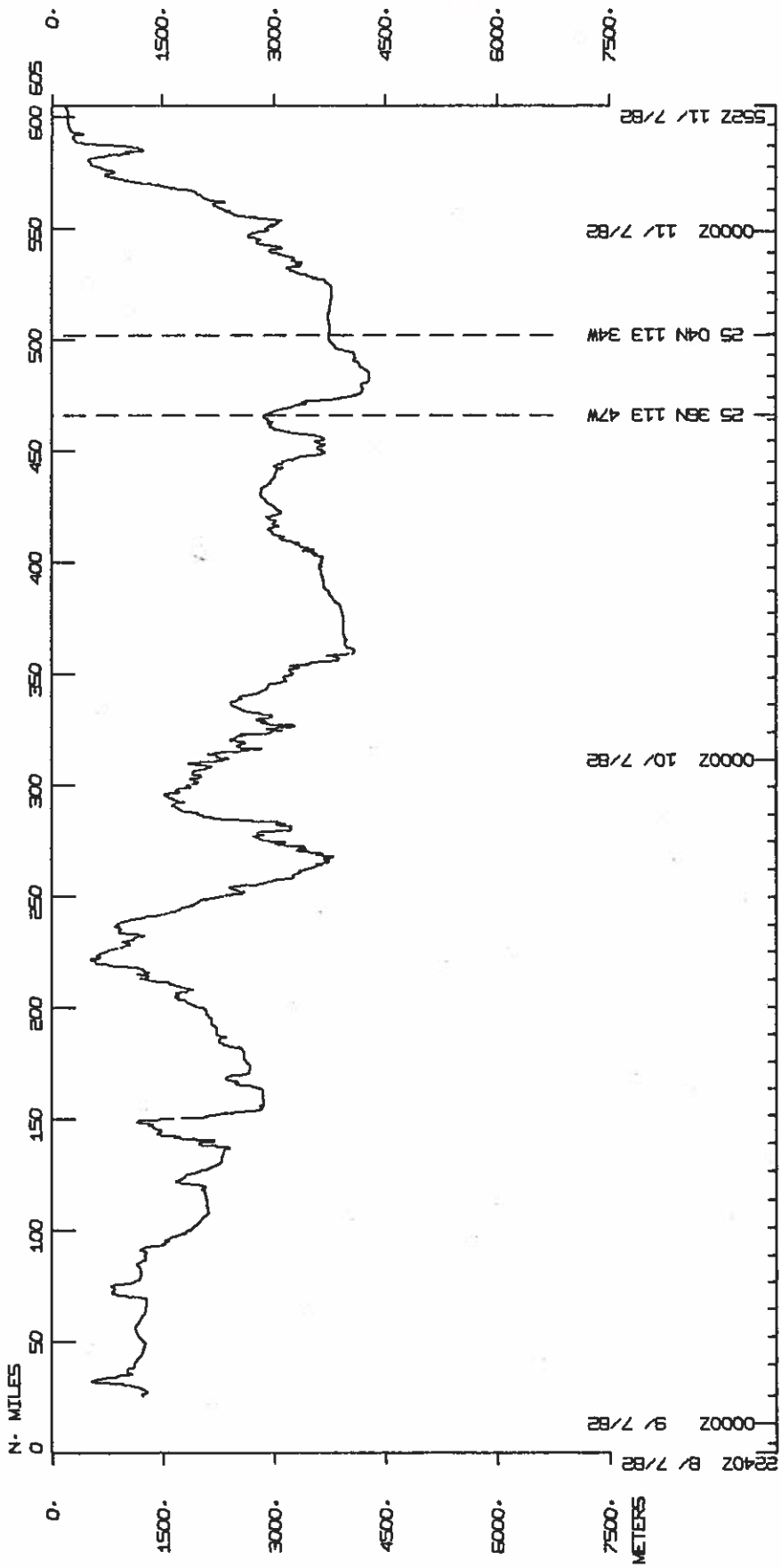
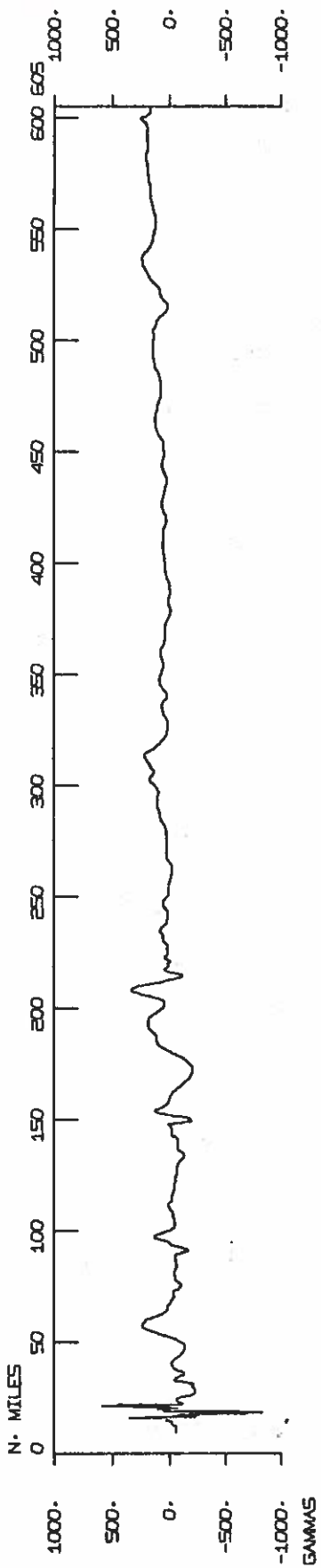


CERE02WT  
TRACK PLOT 2 OF 2 ( AT .312IN/DEGREE)



CEREP2AWT

SEABEAM



00002 9 / 7/82

00002 10 / 7/82

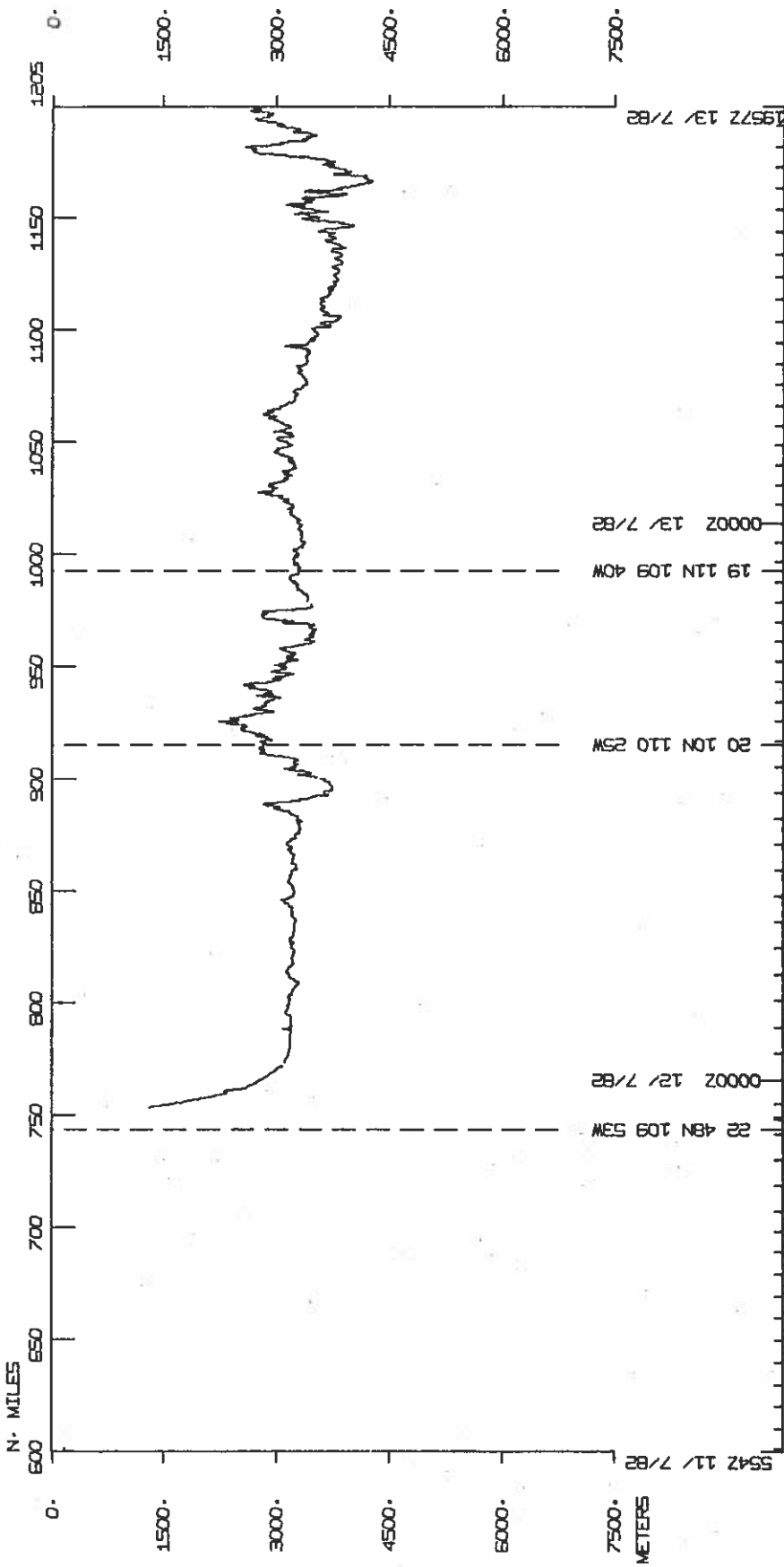
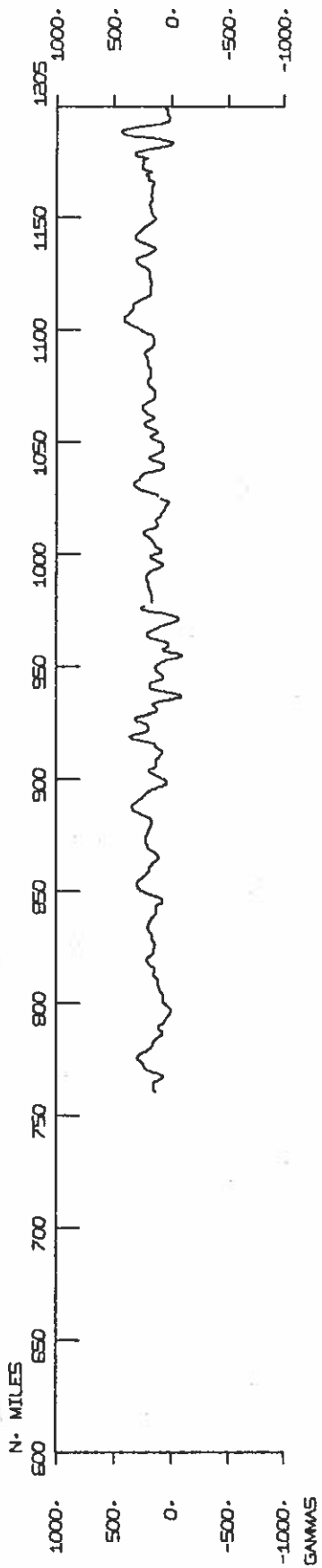
05 38N 113 47W

05 04N 113 34W

00002 11 / 7/82

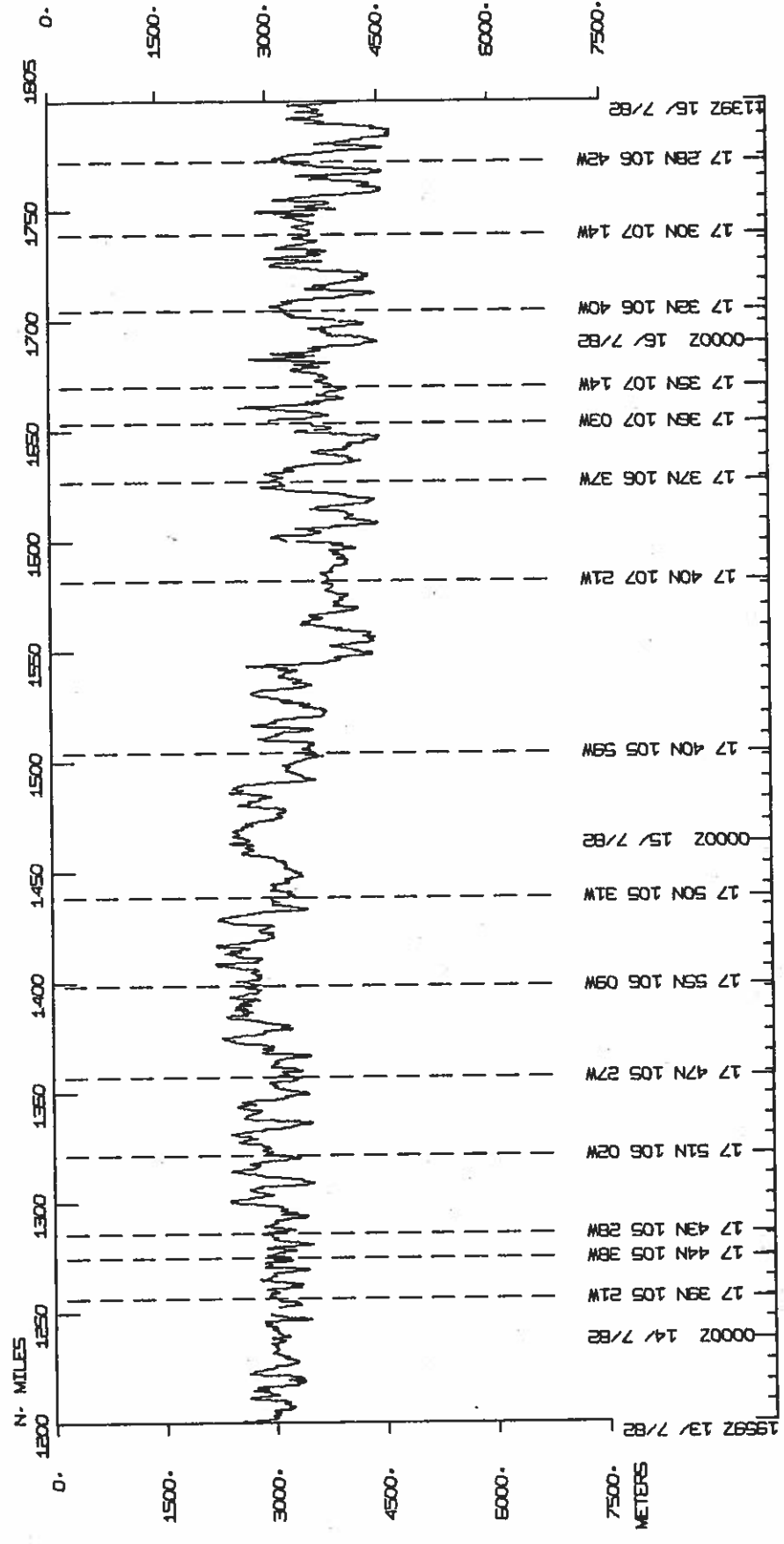
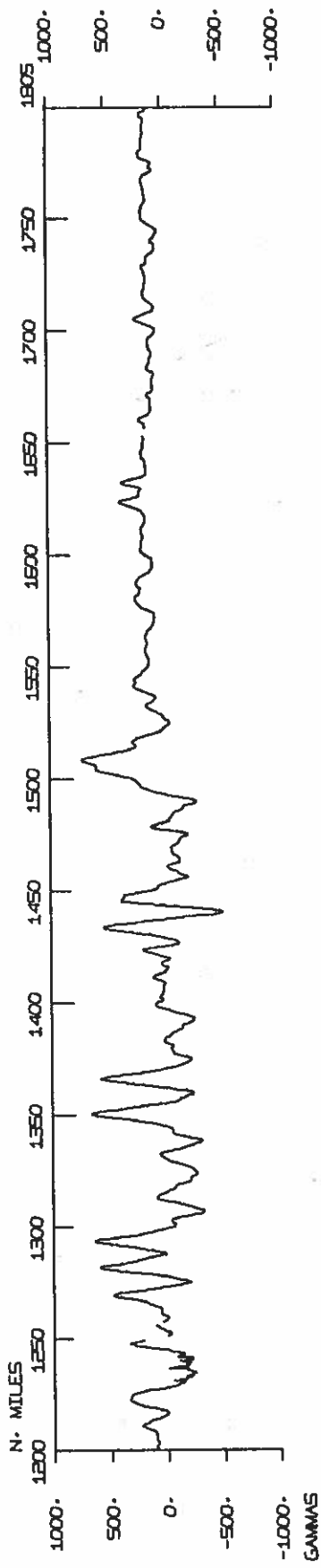
0522 11 / 7/82

CEREP2AWT



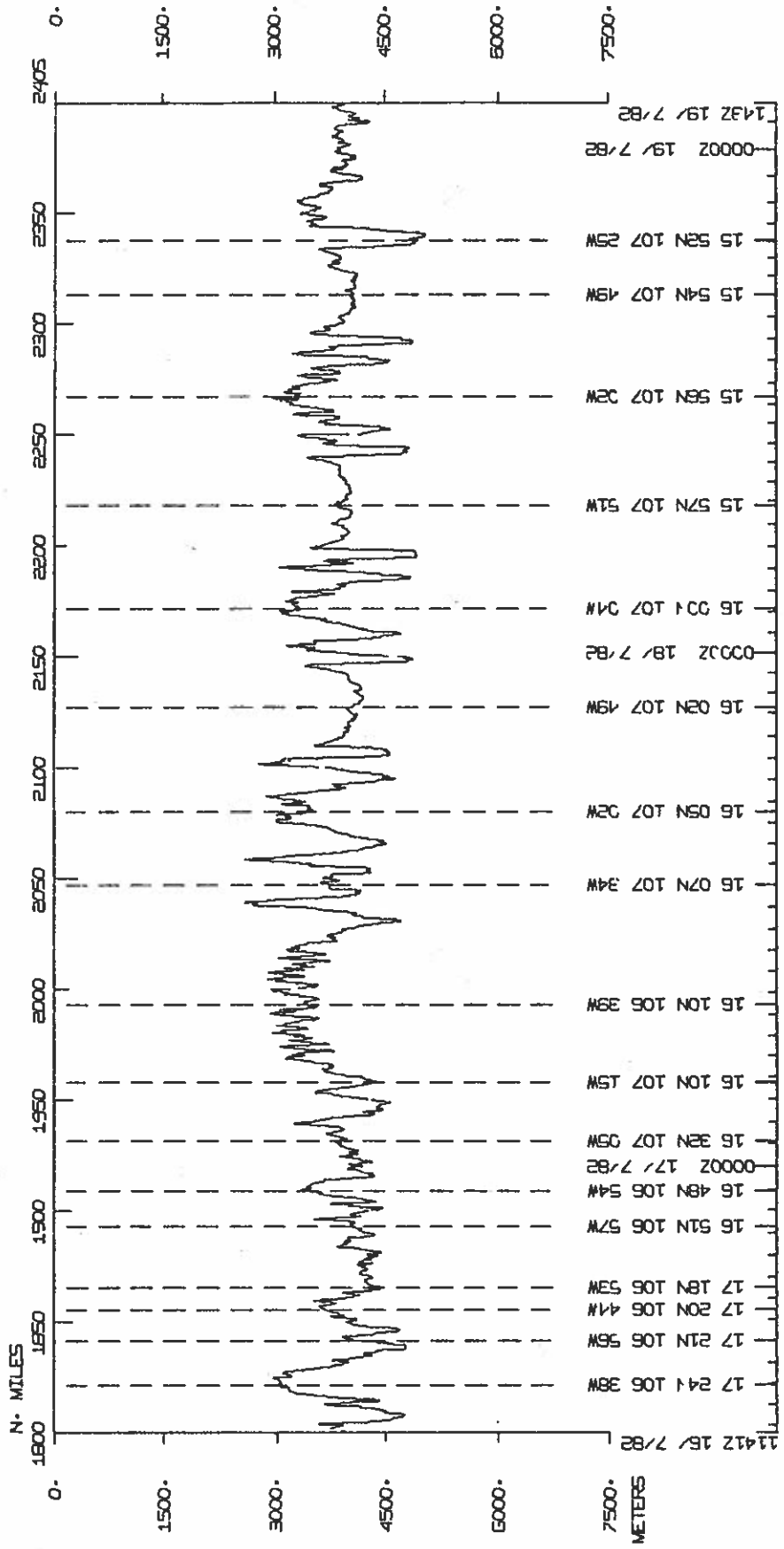
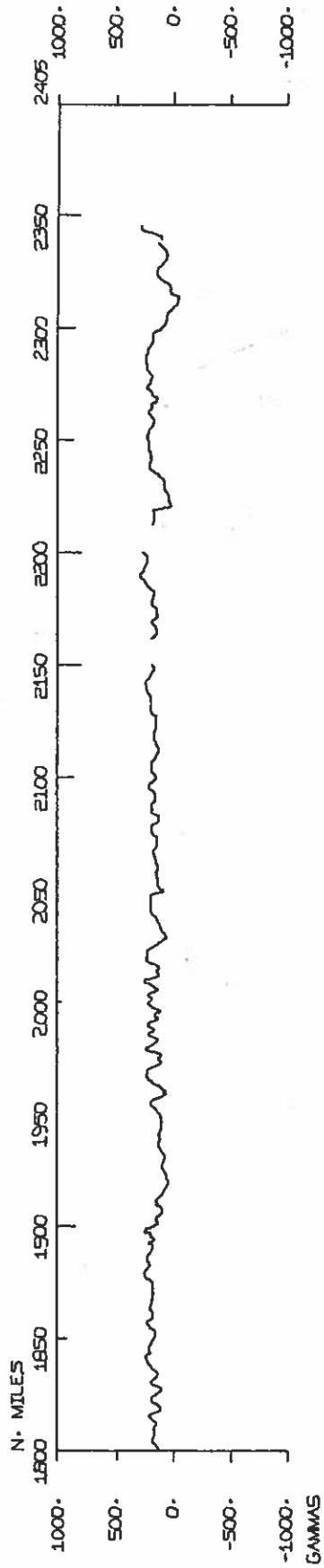


CFR22AWT

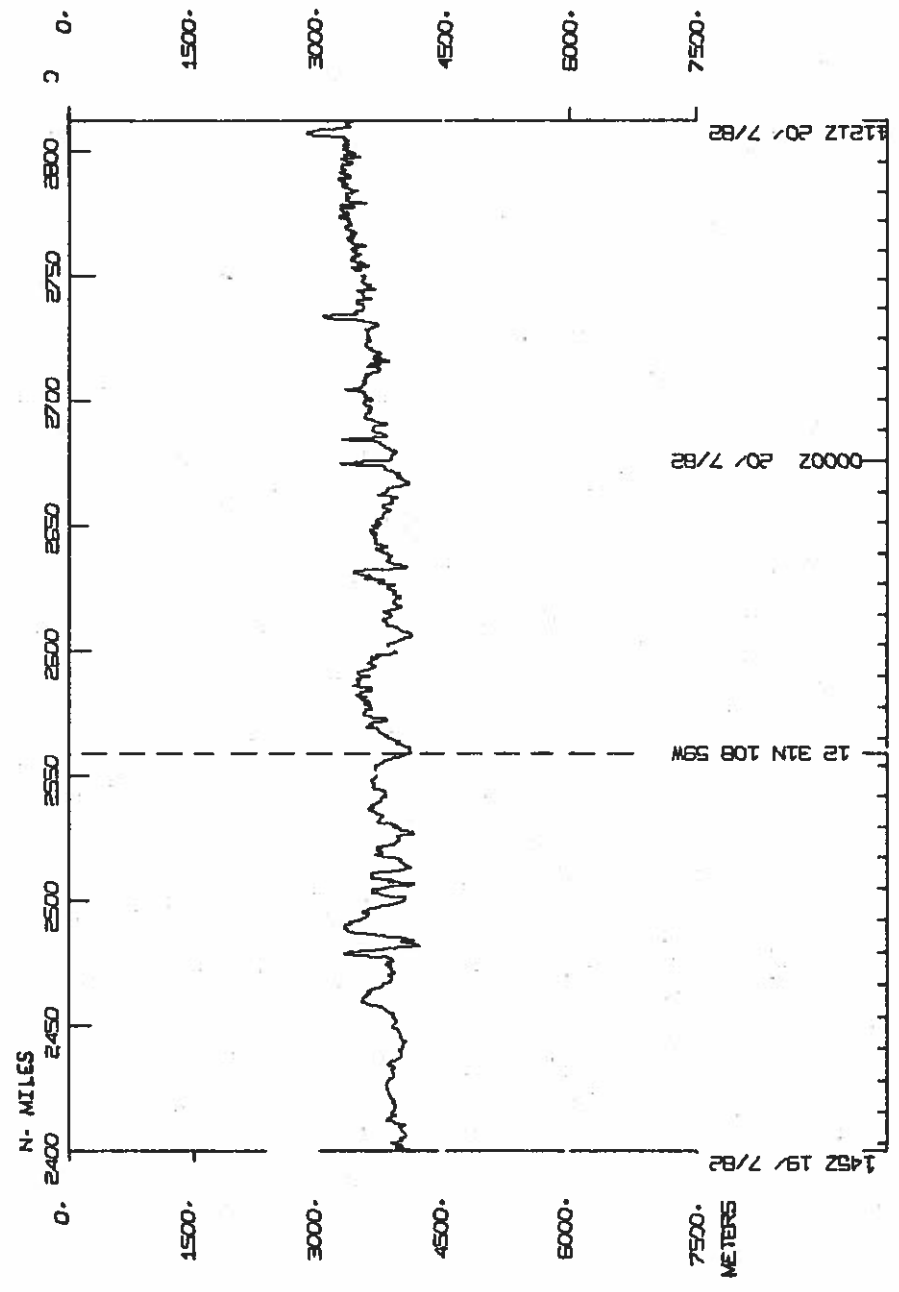
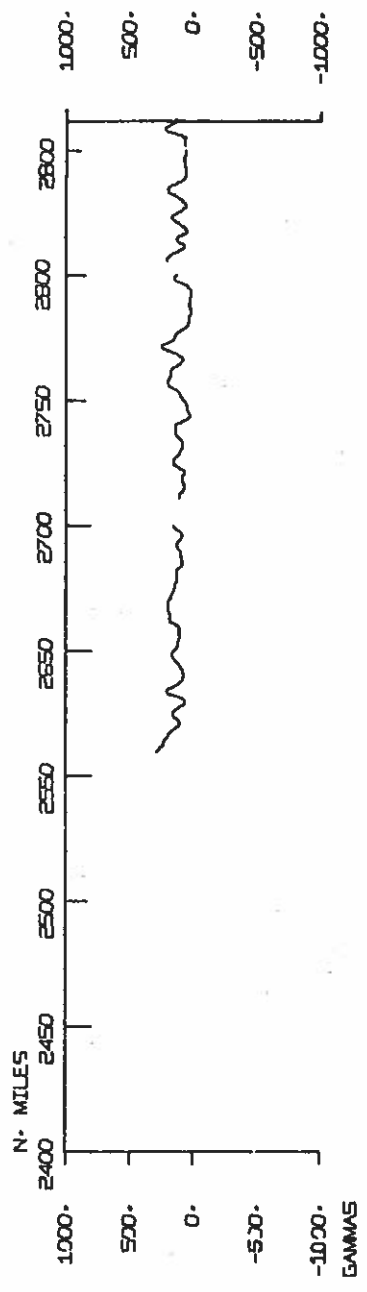


- 1392 13/ 7/82
- 17 39N 105 21W
- 17 44N 105 38W
- 17 43N 105 28W
- 17 51N 106 02W
- 17 42N 105 27W
- 17 55N 106 09W
- 17 50N 105 31W
- 00002 15/ 7/82
- 17 40N 105 59W
- 17 40N 107 21W
- 17 37N 106 37W
- 17 38N 107 03W
- 17 35N 107 14W
- 00002 16/ 7/82
- 17 38N 106 40W
- 17 30N 107 14W
- 17 28N 106 42W
- 1392 16/ 7/82

CERREAWT

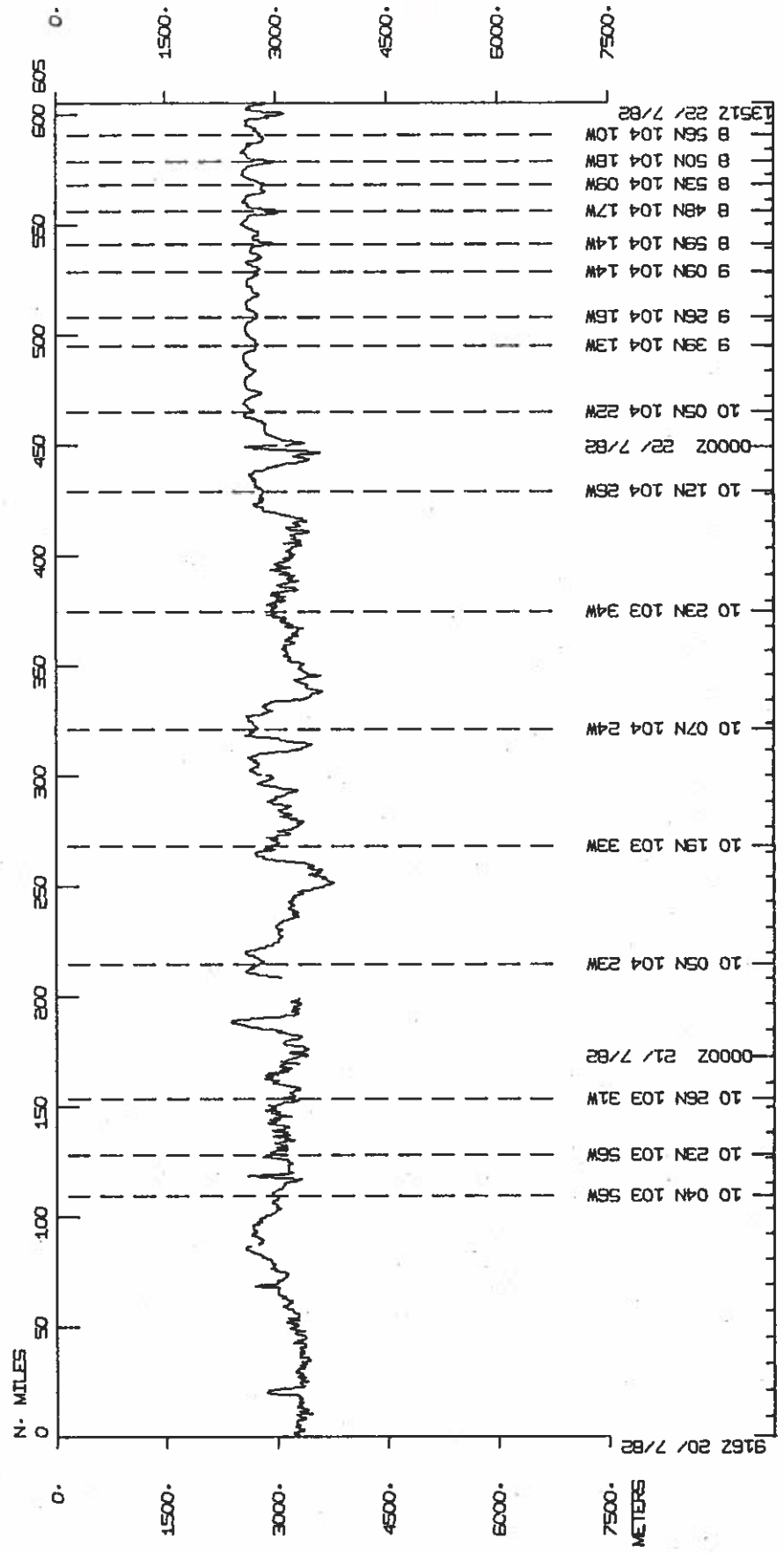
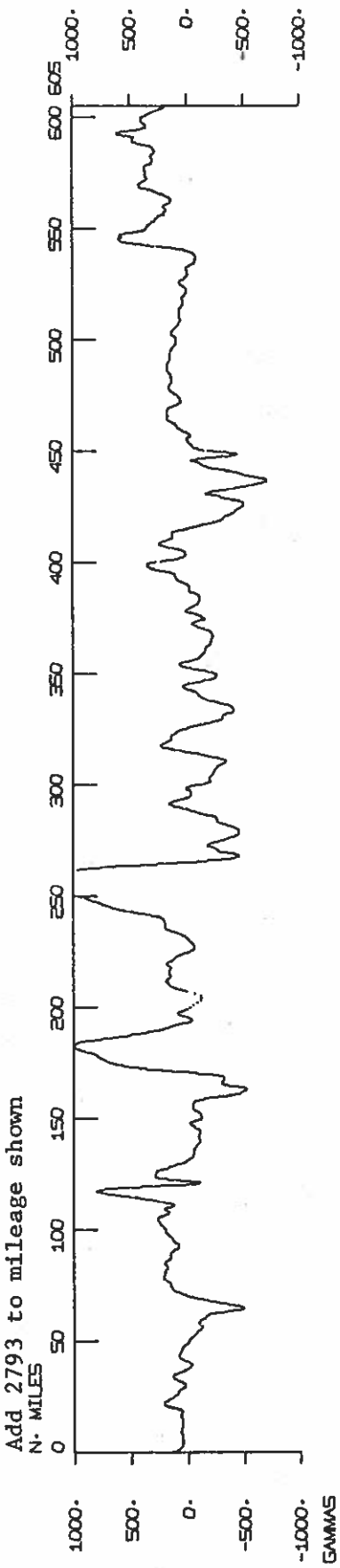


CERE2AWT

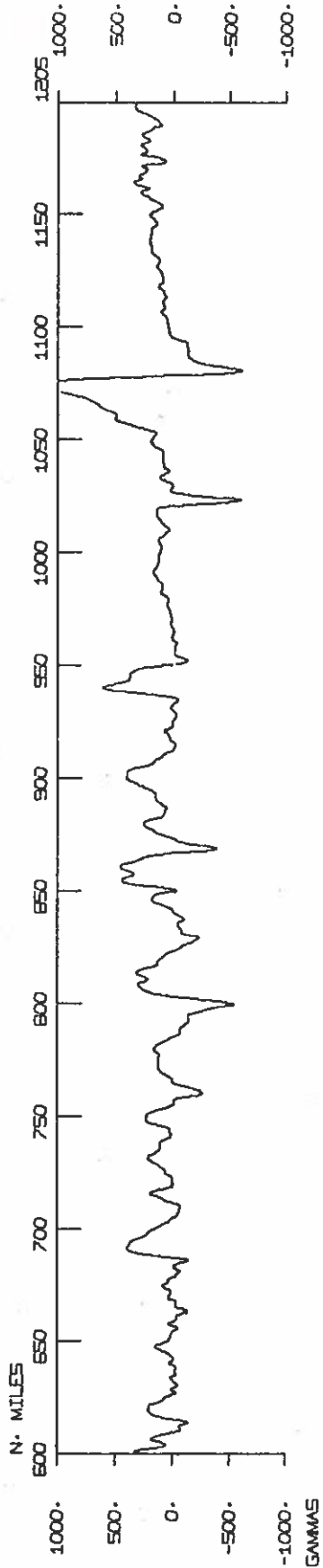


NOTE: Leg CERE02WT  
split into 2 parts  
(CERE2A and CERE2B)  
for processing  
purposes only.  
Data are referred to,  
and archived under, the  
CERE02WT designation.

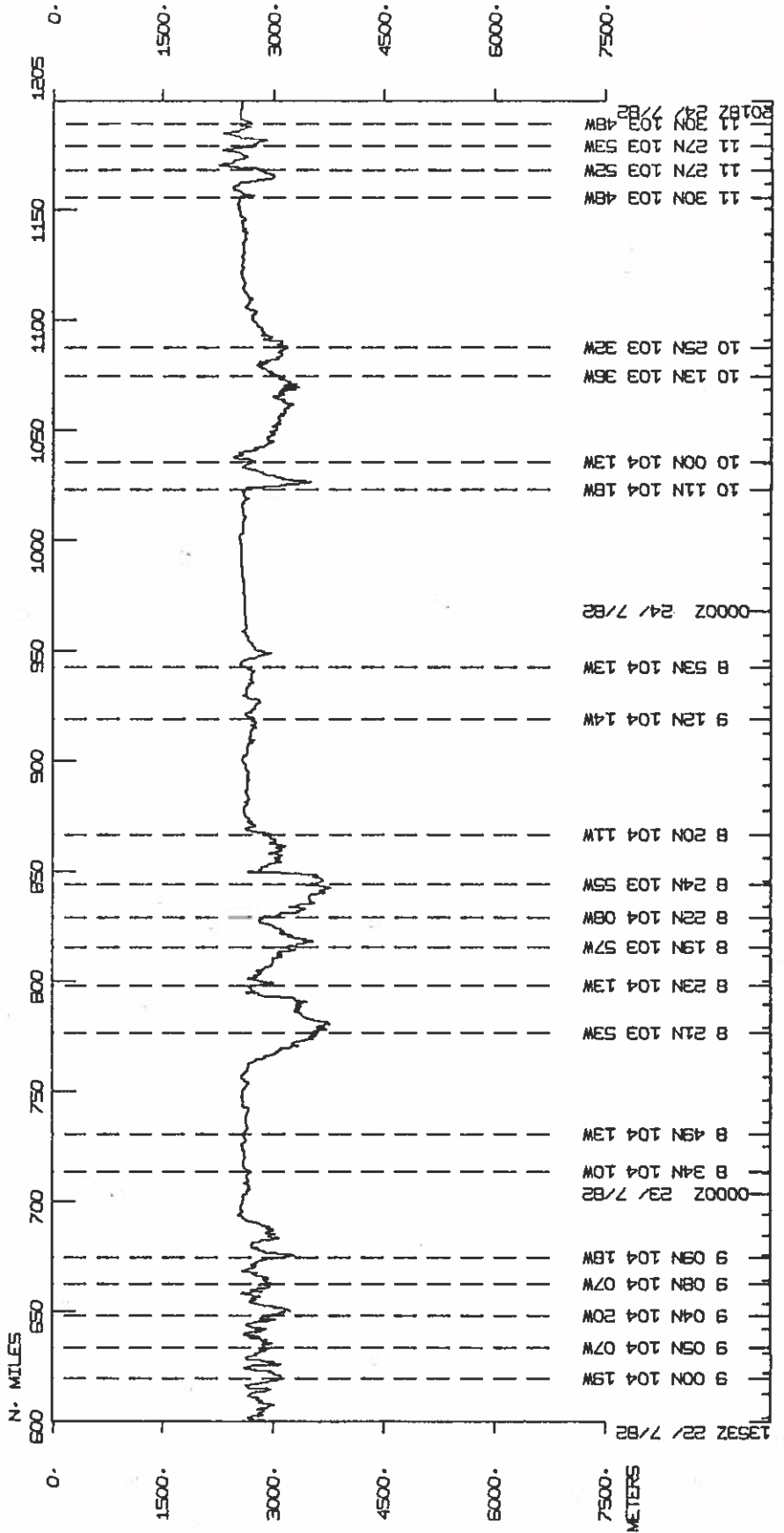
CERF2BWT



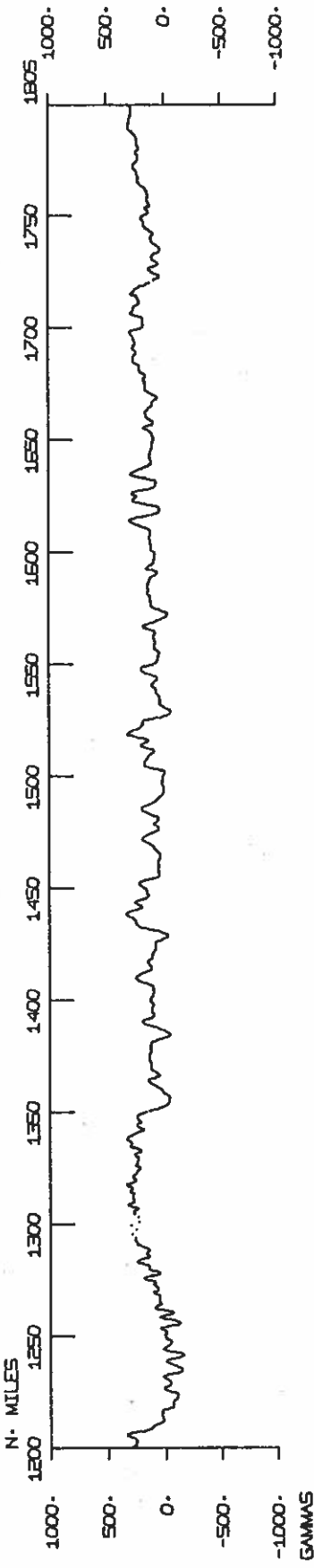
Add 2793 to mileage shown



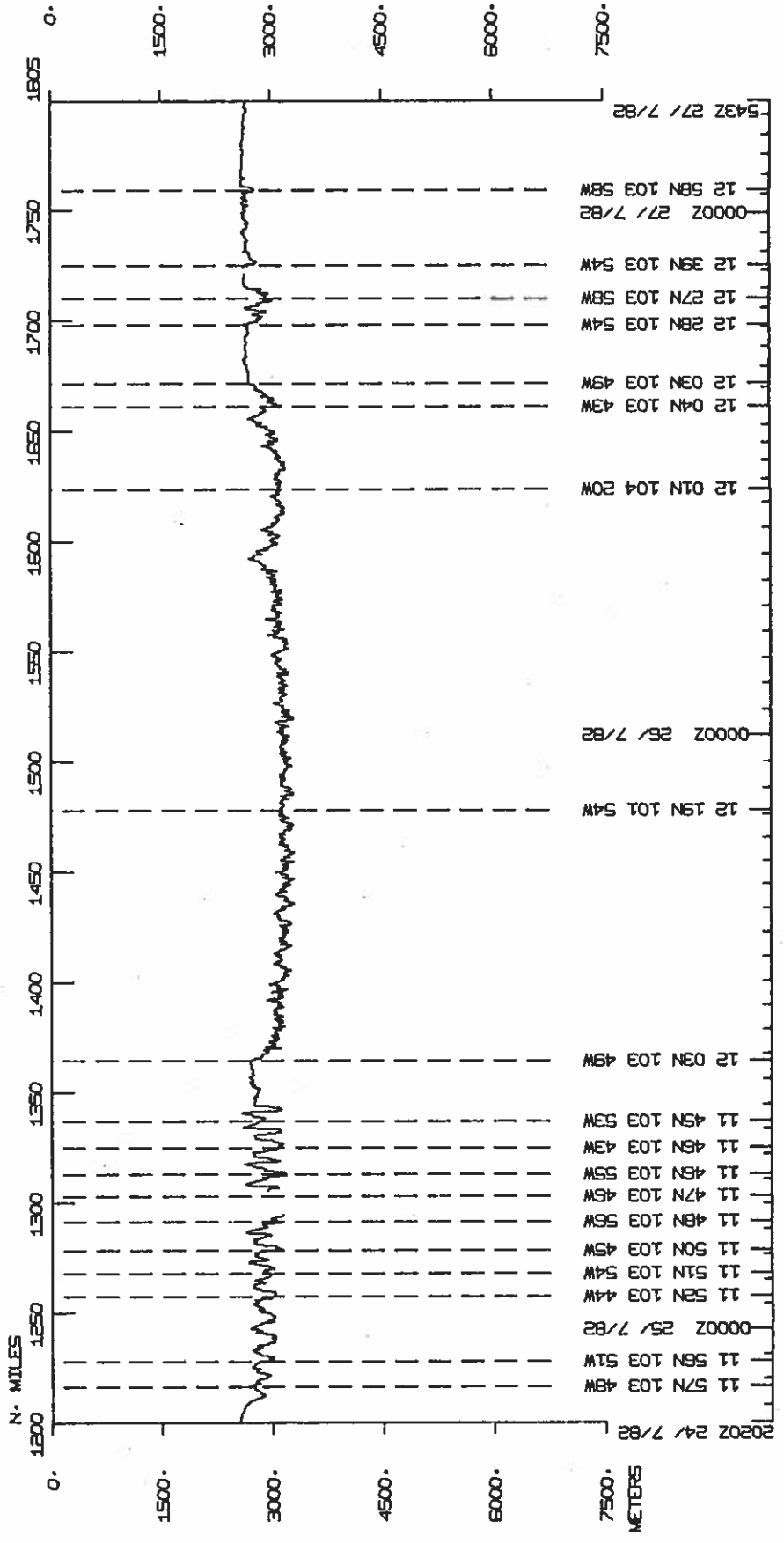
CEREBWT



Add 2793 to mileage shown

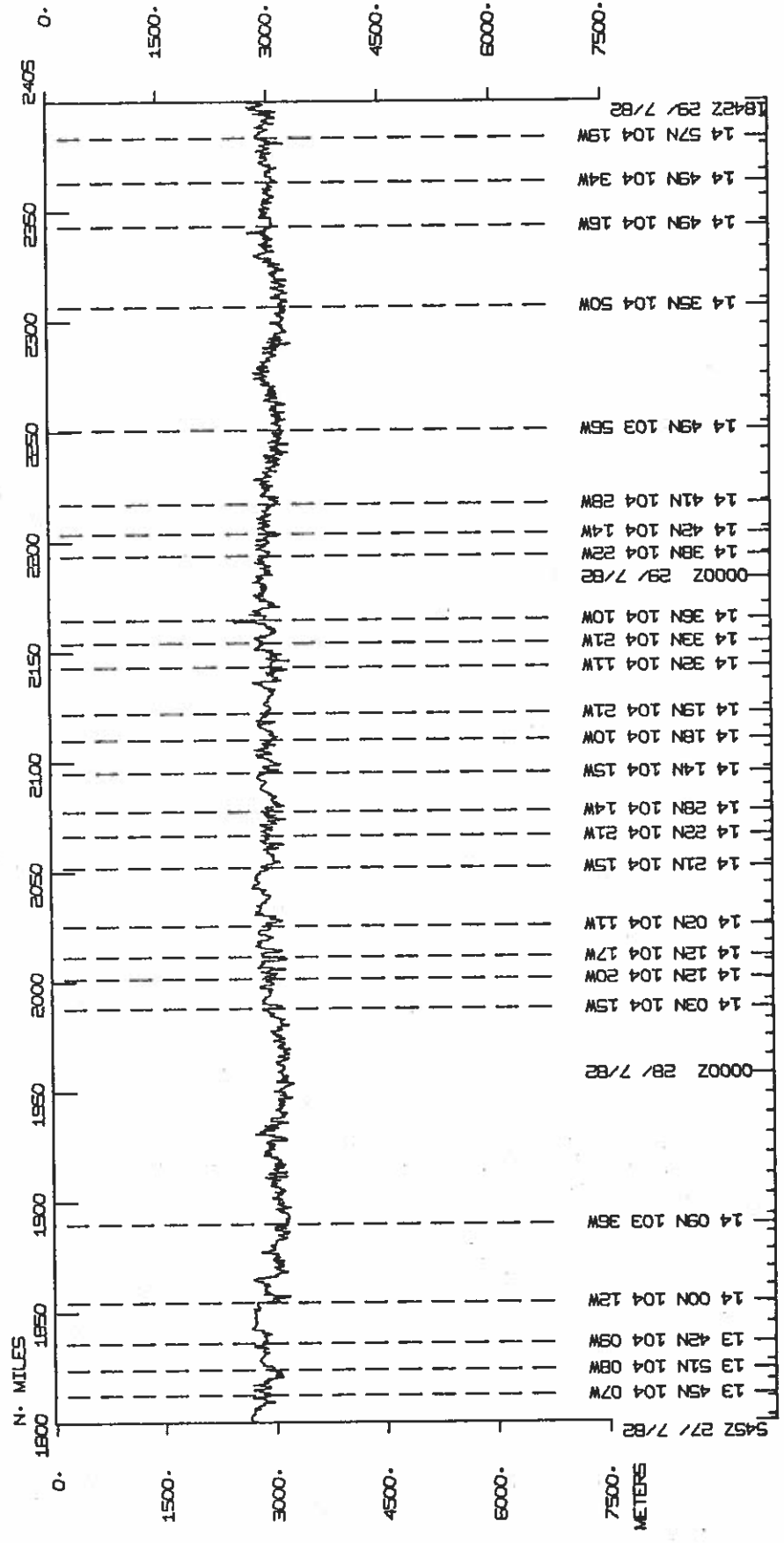
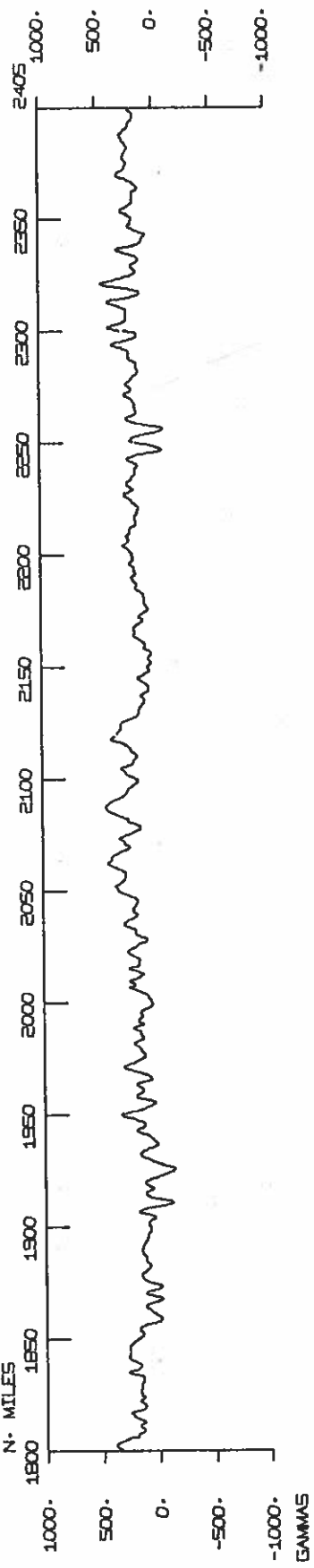


CEREBWT

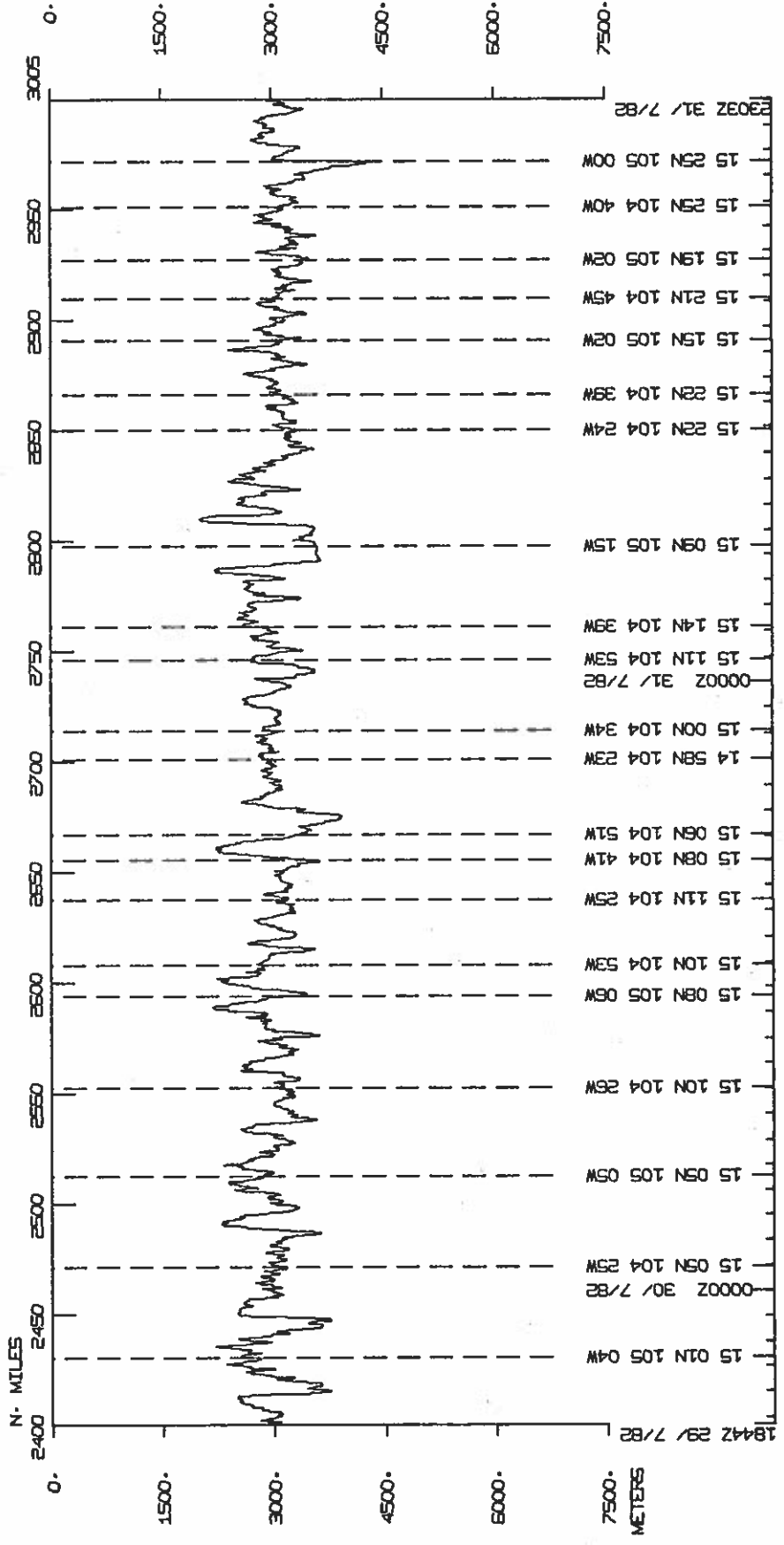
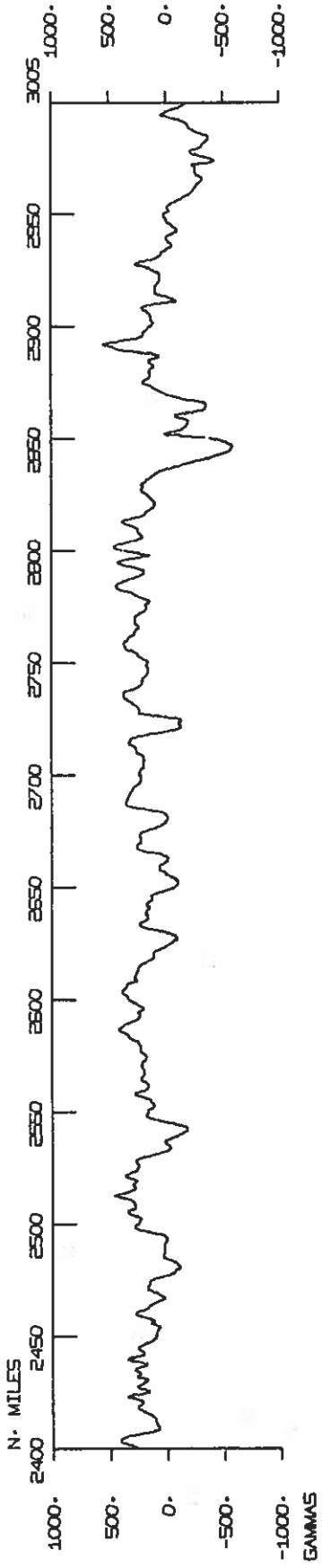


CEREBWT

Add 2793 to mileage shown



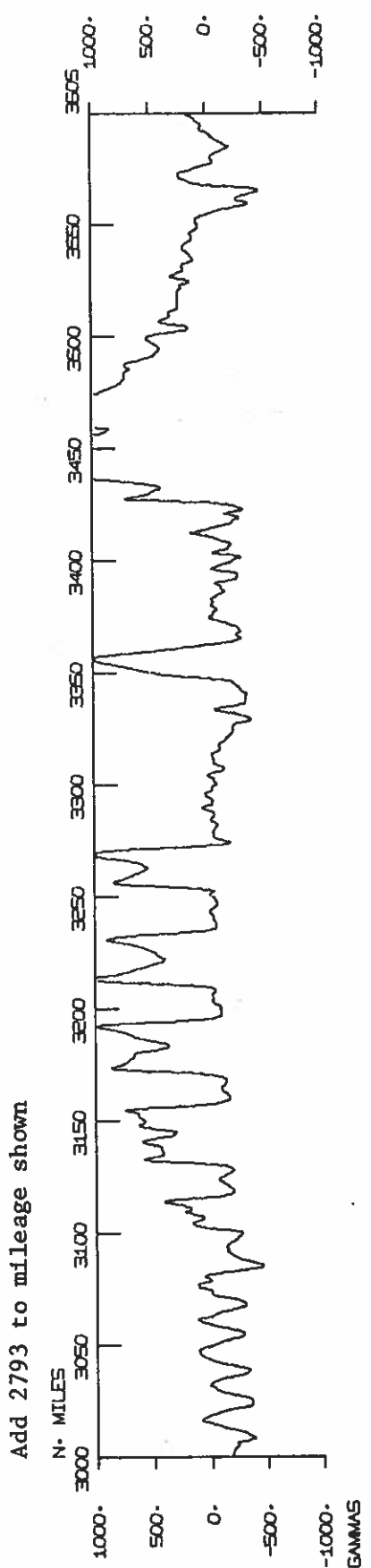
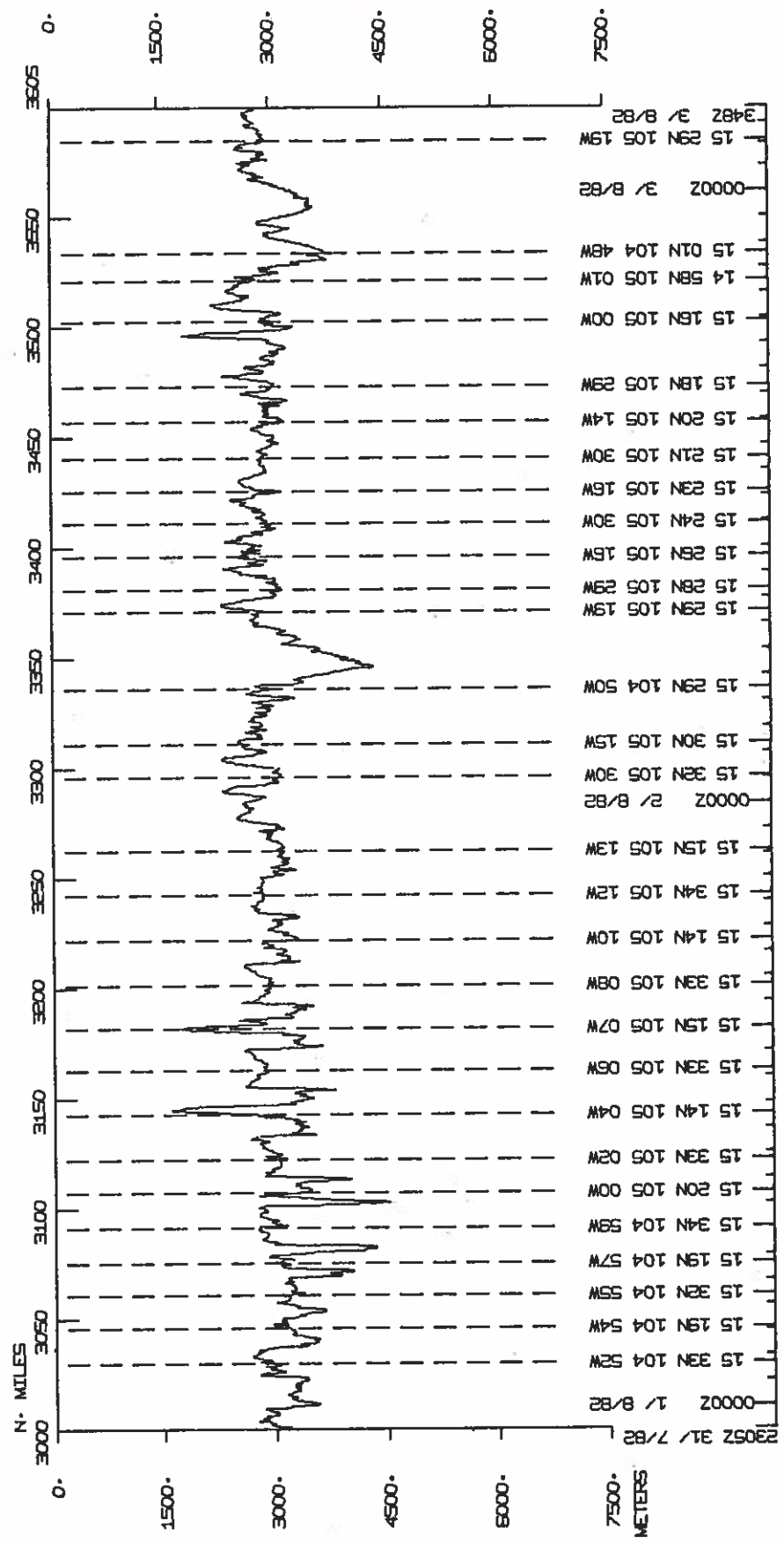
Add 2793 to mileage shown



CEREP2BWT

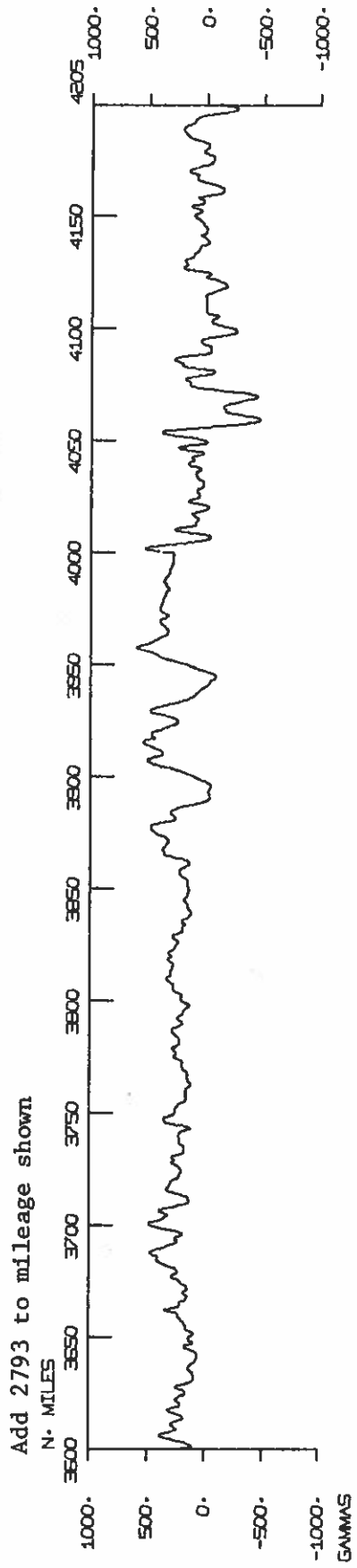
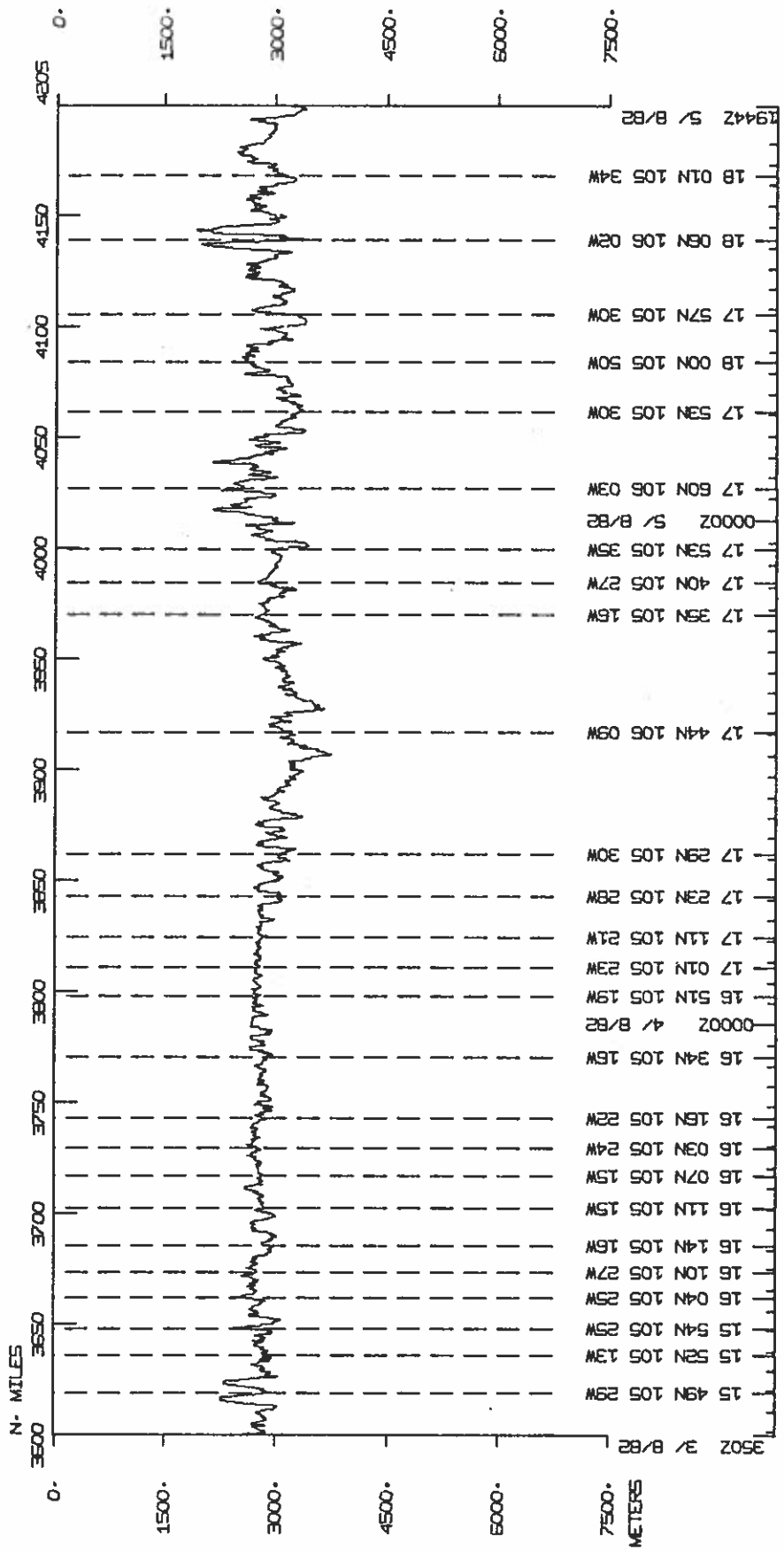


CEREBWT



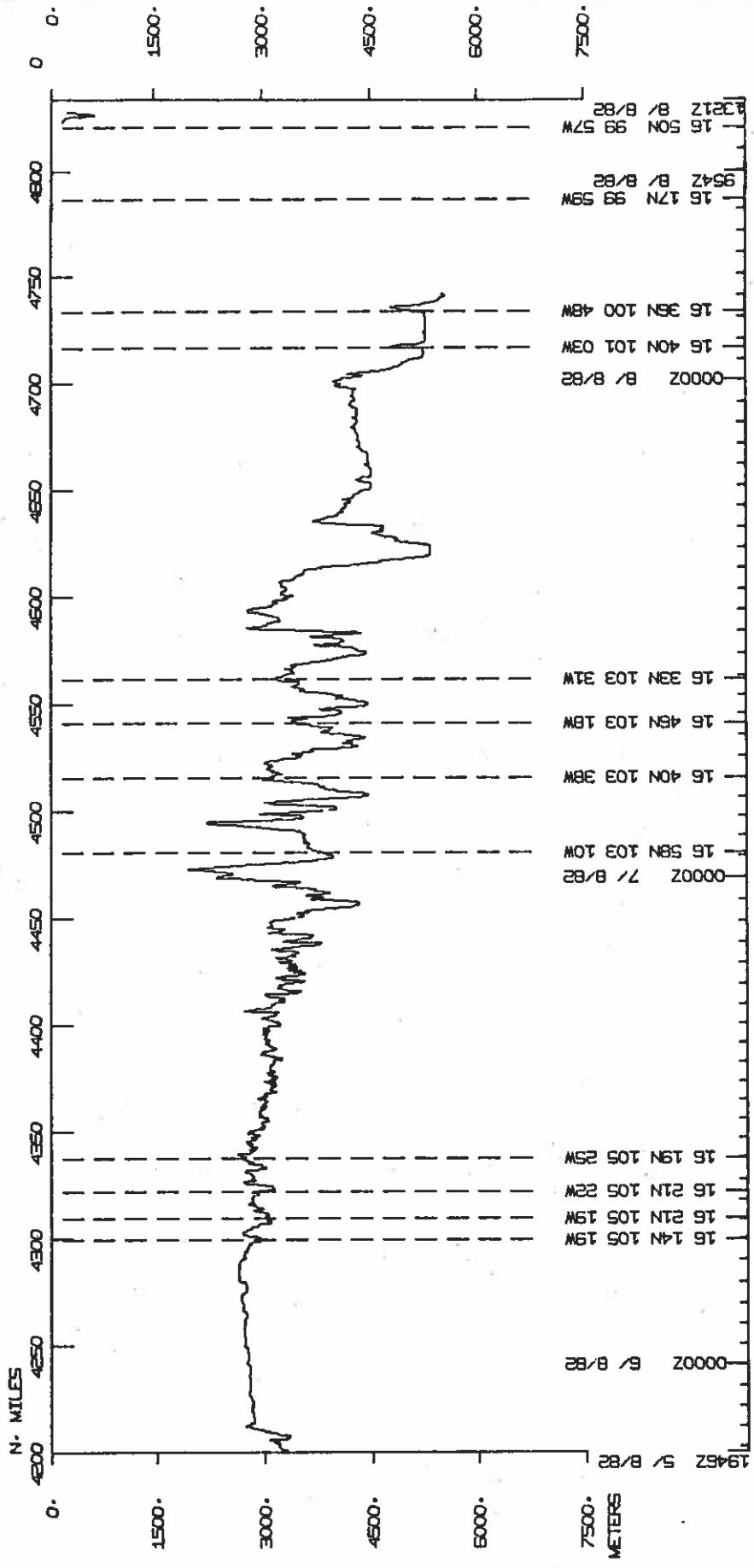
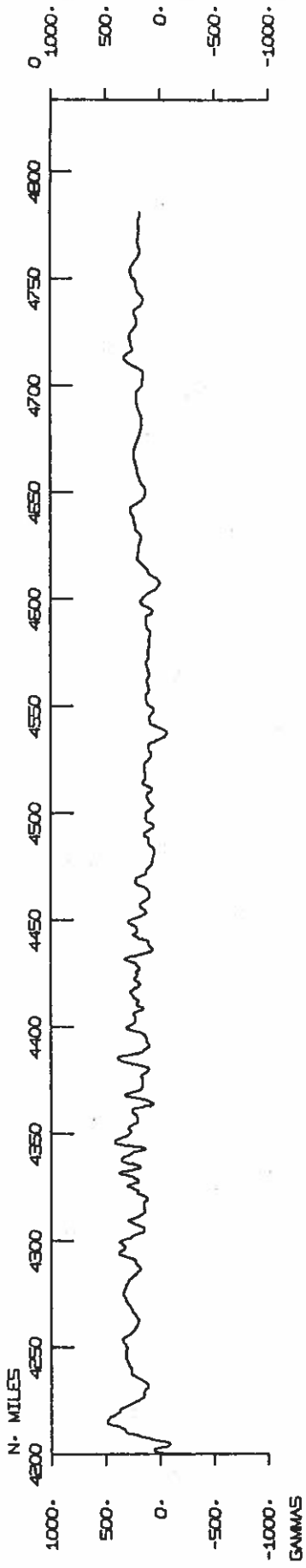
Add 2793 to mileage shown

CEREBWT



Add 2793 to mileage shown

Add 2793 to mileage shown





GMT D /M /Y TIME DATE	LOC LOC TIME TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
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CERES LEG 2 SAMPLE INDEX

CERE02WT

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

2300 08/07/82		LGPT B	SAN DIEGO, CAL.		.32 43. N	117 11. W	F CERE02WT
1357 08/08/82		LGPT E	ACAPULCO, MEXICO		16 51. N	99 56. W	F CERE02WT

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

*** NAME ***	*** TITLE ***	*** AFFILIATION ***
--------------	---------------	---------------------

1 MAMMERICKX, J.	CHIEF SCIENTIST	GEOLOGICAL RESEARCH DIVISION (EXT. 3360)
2 MACDONALD, K.	CHIEF SCIENTIST	UNIV. CALIF. SANTA BARBARA
3 COLLINS, K.	STUDENT	UNIV. CALIF. SANTA BARBARA
4 DORMAN, L.	SCIENTIST	GEOLOGICAL RESEARCH DIVISION (EXT. 3360)
5 FOX, P. (URI)	SCIENTIST	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT. 36)
6 HAYMON, R.	SCIENTIST	UNIV. CALIF. SANTA BARBARA
7 HUBBARD, A.	GPS TECH	LAMONT-DOHERTY GEOPHYSICAL OBSERVATORY, COLUMBIA UNIVERSITY
8 MAMMERICKX, C.	VOLUNTEER	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT. 36)
9 MADSEN, J. (URI)	STUDENT	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT. 36)
10 MOORE, J. M.	COMPUTER TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
11 PILLARD, E.	RESIDENT TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
12 SEMPERE, J.	STUDENT	UNIV. CALIF. SANTA BARBARA
13 SLOAN, H. (URI)	STUDENT	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT. 36)
14 STUBER, D.	COMPUTER TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
15 WEEKS, R.	STUDENT	UNIV. CALIF. SANTA BARBARA
16 Winterer, J	VOLUNTEER	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT. 36)
17 ACUNA, A.	SCIENTIST	Mexican representative

\*\*\*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.  
 (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.

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

DISP	TYPE									TOTAL	
	BT	DP	GV	MB	MG	PE	SB	SQ			
GDC	I	3	14		23					I	40
GRD	I				5		2			I	7
LDD	I						1			I	1
LMD	I			3						I	3
MTG	I						3			I	3
SIX	I						6			I	6
UCS	I					3	5	23	7	I	38
TOTAL	I	3	14	3	23	3	17	23	7	I	98

SAMPLE 'TYPE' CODES USED ABOVE

-----  
 BT = BATHY THERMOGRAM  
 DP = DEPTH  
 GV = GRAVITY  
 MB = MULTI-BEAM (SEABEAM) ECHOSOUNDER  
 MG = MAGNETICS (TOWED VEHICLE, SURFACE, TOTAL FIELD)  
 PE = PERSONNEL IN SCIENTIFIC PARTY  
 SB = SEISMIC BUOY  
 SQ = SEA QUAKE RECORDING

SAMPLE 'DISP' CODES USED ABOVE

-----  
 GDC = GEOLOGICAL DATA CENTER -- S. SMITH (EXT. 2752)  
 GRD = GEOLOGICAL RESEARCH DIVISION (EXT. 3360)  
 LDD = LAMONT-DOHERTY GEOPHYSICAL OBSERVATORY, COLUMBIA UNIVERSITY  
 LMD = LEROY M. DORMAN (EXT. 2406)  
 MTG = MARINE TECHNOLOGY GROUP (EXT 4194)  
 SIX = SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)  
 UCS = UNIV. CALIF. SANTA BARBARA

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 M. SMITH EXT. 2752 \*\*\*\*

\*\*\* FATHOGRAMS \*\*\*

0013	9/ 7/82	DPR3	B	EPC	3.5KHZ	R-01	GDC	32	20.8N	117	11.5W	S	CERE02WT
1917	12/ 7/82	DPR3	E	EPC	3.5KHZ	R-01	GDC	19	31.5N	109	41.2W	S	CERE02WT
1920	12/ 7/82	DPR3	B	EPC	3.5KHZ	R-02	GDC	19	31.2N	109	40.9W	S	CERE02WT
0216	18/ 7/82	DPR3	E	EPC	3.5KHZ	R-02	GDC	16	00.2N	107	04.7W	S	CERE02WT
0320	18/ 7/82	DPR3	B	EPC	3.5KHZ	R-03	GDC	15	58.9N	107	16.1W	S	CERE02WT
1845	22/ 7/82	DPR3	E	EPC	3.5KHZ	R-03	GDC	09	06.0N	104	19.4W	S	CERE02WT
1859	22/ 7/82	DPR3	B	EPC	3.5KHZ	R-04	GDC	09	06.4N	104	16.9W	S	CERE02WT
1700	27/ 7/82	DPR3	E	EPC	3.5KHZ	R-04	GDC	14	05.1N	103	35.4W	S	CERE02WT
1710	27/ 7/82	DPR3	B	EPC	3.5KHZ	R-05	GDC	14	04.1N	103	35.9W	S	CERE02WT
1150	1/ 8/82	DPR3	E	EPC	3.5KHZ	R-05	GDC	15	16.5N	105	05.9W	S	CERE02WT
1209	1/ 8/82	DPR3	B	EPC	3.5KHZ	R-06	GDC	15	20.2N	105	05.9W	S	CERE02WT
0504	4/ 8/82	DPR3	E	EPC	3.5KHZ	R-06	GDC	17	16.1N	105	21.7W	S	CERE02WT
0511	4/ 8/82	DPR3	B	EPC	3.5KHZ	R-07	GDC	17	16.5N	105	22.7W	S	CERE02WT
0318	6/ 8/82	DPR3	E	EPC	3.5KHZ	R-07	GDC	16	39.9N	105	21.1W	S	CERE02WT
0326	6/ 8/82	DPR3	B	EPC	3.5KHZ	R-08	GDC	16	38.6N	105	21.2W	S	CERE02WT
1300	8/ 8/82	DPR3	E	EPC	3.5KHZ	R-08	GDC	16	49.0N	99	58.3W	S	CERE02WT

\*\*\* MAGNETOMETER \*\*\*

0030	9/ 7/82	MGRA	B	MAGNETICS	R-01	UCS	32	17.4N	117	11.2W	S	CERE02WT
1526	21/ 7/82	MGRA	E	MAGNETICS	R-01	UCS	10	16.3N	103	58.0W	S	CERE02WT
1531	21/ 7/82	MGRA	B	MAGNETICS	R-02	UCS	10	16.6N	103	57.1W	S	CERE02WT
2100	7/ 8/82	MGRA	E	MAGNETICS	R-02	UCS	16	43.6N	101	46.3W	S	CERE02WT
2100	7/ 8/82	MGRA	B	MAGNETICS	R-03	UCS	16	43.6N	101	46.3W	S	CERE02WT
1053	8/ 8/82	MGRA	E	MAGNETICS	R-03	UCS	16	39.8N	99	56.7W	S	CERE02WT

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

0030	9/ 7/82	GVRA	B	GRAVIMETER	R-01	LMD	32	17.4N	117	11.2W	S	CERE02WT
1715	18/ 7/82	GVRA	E	GRAVIMETER	R-01	LMD	15	52.3N	107	48.8W	S	CERE02WT
1715	18/ 7/82	GVRA	B	GRAVIMETER	R-02	LMD	15	52.3N	107	48.8W	S	CERE02WT
2335	28/ 7/82	GVRA	E	GRAVIMETER	R-02	LMD	14	35.9N	104	73.4W	S	CERE02WT

GMT D / M / Y TIME DATE	LOC LOC TIME TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
0000 29/ 7/82		GVRA B	GRAVIMETER R-03	LMD 14	37.7N	104 19.5W	S CEREO2WT
1030 8/ 8/82		GVRA E	GRAVIMETER R-03	LMD 16	36.1N	99 56.9W	S CEREO2WT

## \*\*\*SEABEAM MONITOR RECORD - VERTICAL RFAM\*\*\*

0050 9/ 7/82		DPRT B SB	UGR MONITOR R-01	GDC 32	17.4N	117 11.2W	S CEREO2WT
0000 20/ 7/82		DPRT E SB	UGR MONITOR R-01	GDC 11	36.2N	107 14.3W	S CEREO2WT
0000 20/ 7/82		DPRT B SB	UGR MONITOR R-02	GDC 11	36.2N	107 14.3W	S CEREO2WT
1745 23/ 7/82		DPRT E SB	UGR MONITOR R-02	GDC 08	51.2N	104 15.8W	S CEREO2WT
1815 23/ 7/82		DPRT B SB	UGR MONITOR R-03	GDC 08	57.1N	104 16.1W	S CEREO2WT
0615 31/ 7/82		DPRT E SB	UGR MONITOR R-03	GDC 15	12.6N	105 07.3W	S CEREO2WT
0624 31/ 7/82		DPRT B SB	UGR MONITOR R-04	GDC 15	12.9N	105 05.5W	S CEREO2WT
0513 4/ 8/82		DPRT E SB	UGR MONITOR R-04	GDC 17	16.7N	105 23.0W	S CEREO2WT
0517 4/ 8/82		DPRT B SB	UGR MONITOR R-05	GDC 17	16.9N	105 23.5W	S CEREO2WT
1515 5/ 8/82		DPRT E SB	UGR MONITOR R-05	GDC 18	04.3N	105 45.9W	S CEREO2WT
1536 5/ 8/82		DPRT B SB	UGR MONITOR R-06	GDC 18	03.5N	105 42.5W	S CEREO2WT
1300 8/ 8/82		DPRT E SB	UGR MONITOR R-06	GDC 16	49.0N	99 58.3W	S CEREO2WT

## \*\*\*SEABEAM SWATH BOOK - REALTIME CONTOUR SWATH\*\*\*

2317 8/ 7/82		MRSB B SB	SWATH BOOK 01	GDC 32	29.8N	117 12.6W	S CEREO2WT
0000 9/ 7/82		MRSB E SB	SWATH BOOK 01	GDC 32	23.4N	117 11.6W	S CEREO2WT
0000 9/ 7/82		MRSB B SB	SWATH BOOK 02	GDC 32	23.4N	117 11.6W	S CEREO2WT
0534 12/ 7/82		MRSB E SB	SWATH BOOK 02	GDC 21	32.3N	110 07.6W	S CEREO2WT
0534 12/ 7/82		MRSB B SB	SWATH BOOK 03	GDC 21	32.3N	110 07.6W	S CEREO2WT
0000 14/ 7/82		MRSB E SB	SWATH BOOK 03	GDC 17	43.2N	105 41.3W	S CEREO2WT
0000 14/ 7/82		MRSB B SB	SWATH BOOK 04	GDC 17	43.2N	105 41.3W	S CEREO2WT
1536 15/ 7/82		MRSB E SB	SWATH BOOK 04	GDC 17	38.3N	106 49.6W	S CEREO2WT
1536 15/ 7/82		MRSB B SB	SWATH BOOK 05	GDC 17	38.3N	106 49.6W	S CEREO2WT
0925 17/ 7/82		MRSB E SB	SWATH BOOK 05	GDC 16	08.6N	106 57.8W	S CEREO2WT
0925 17/ 7/82		MRSB B SB	SWATH BOOK 06	GDC 16	08.6N	106 57.8W	S CEREO2WT
0328 19/ 7/82		MRSB E SB	SWATH BOOK 06	GDC 14	37.0N	108 04.0W	S CEREO2WT
0328 19/ 7/82		MRSB B SB	SWATH BOOK 07	GDC 14	37.0N	108 04.0W	S CEREO2WT
0000 20/ 7/82		MRSB E SB	SWATH BOOK 07	GDC 11	36.2N	107 14.3W	S CEREO2WT
0000 20/ 7/82		MRSB B SB	SWATH BOOK 08	GDC 11	36.2N	107 14.3W	S CEREO2WT
1648 21/ 7/82		MRSB E SB	SWATH BOOK 08	GDC 10	20.4N	103 43.1W	S CEREO2WT
1648 21/ 7/82		MRSB B SB	SWATH BOOK 09	GDC 10	20.4N	103 43.1W	S CEREO2WT
1300 23/ 7/82		MRSB E SB	SWATH BOOK 09	GDC 08	22.9N	103 54.9W	S CEREO2WT



GMT TIME	D / M / Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	23SFP82		PAGE	4	LEG-SHIP CRUISE
							LAT.	LONG.			
1300	23/ 7/82			MRSB B SB	SWATH BOOK 10	GDC 08	22.9N	103	54.9W	S	CERE02WT
0830	25/ 7/82			MRSB E SB	SWATH BOOK 10	GDC 11	44.1N	103	52.6W	S	CERE02WT
0830	25/ 7/82			MRSB B SB	SWATH BOOK 11	GDC 11	44.1N	103	52.6W	S	CERE02WT
0812	27/ 7/82			MRSB E SB	SWATH BOOK 11	GDC 13	50.3N	104	06.1W	S	CERE02WT
0812	27/ 7/82			MRSB B SB	SWATH BOOK 12	GDC 13	50.3N	104	06.1W	S	CERE02WT
1106	29/ 7/82			MRSB E SB	SWATH BOOK 12	GDC 14	38.0N	104	47.3W	S	CERE02WT
1106	29/ 7/82			MRSB B SB	SWATH BOOK 13	GDC 14	38.0N	104	47.3W	S	CERE02WT
0540	31/ 7/82			MRSB E SB	SWATH BOOK 13	GDC 15	11.5N	105	14.0W	S	CERE02WT
0540	31/ 7/82			MRSB B SB	SWATH BOOK 14	GDC 15	11.5N	105	14.0W	S	CERE02WT
2228	1/ 8/82			MRSB E SB	SWATH BOOK 14	GDC 15	17.3N	105	15.4W	S	CERE02WT
2228	1/ 8/82			MRSB B SB	SWATH BOOK 15	GDC 15	17.3N	105	15.4W	S	CERE02WT
1628	3/ 8/82			MRSB E SB	SWATH BOOK 15	GDC 16	07.2N	105	17.2W	S	CERE02WT
1628	3/ 8/82			MRSB B SB	SWATH BOOK 16	GDC 16	07.2N	105	17.2W	S	CERE02WT
0750	5/ 8/82			MRSB E SB	SWATH BOOK 16	GDC 18	02.5N	105	49.2W	S	CERE02WT
0750	5/ 8/82			MRSB B SB	SWATH BOOK 17	GDC 18	02.5N	105	49.2W	S	CERE02WT
0009	7/ 8/82			MRSB E SB	SWATH BOOK 17	GDC 16	51.8N	103	18.0W	S	CERE02WT
0011	7/ 8/82			MRSB B SB	SWATH BOOK 18	GDC 16	52.1N	103	17.7W	S	CERE02WT
1231	8/ 8/82			MRSB E SB	SWATH BOOK 18	GDC 16	47.0N	99	58.7W	S	CERE02WT

\*\*\*SEABEAM MAG TAPE - RAW LOGGED DATA\*\*\*

0102	9/ 7/82			MRMT B RAW	MAG TAPE 01	GDC 32	10.4N	117	10.6W	S	CERE02WT
1145	16/ 7/82			MRMT E RAW	MAG TAPE 01	GDC 17	24.6N	107	00.3W	S	CERE02WT
1145	16/ 7/82			MRMT B RAW	MAG TAPE 02	GDC 17	24.2N	107	00.3W	S	CERE02WT
0638	23/ 7/82			MRMT E RAW	MAG TAPE 02	GDC 08	20.9N	103	55.0W	S	CERE02WT
0638	23/ 7/82			MRMT B RAW	MAG TAPE 03	GDC 08	20.9N	103	55.0W	S	CERE02WT
0845	30/ 7/82			MRMT E RAW	MAG TAPE 03	GDC 15	12.7N	104	33.0W	S	CERE02WT
0845	30/ 7/82			MRMT B RAW	MAG TAPE 04	GDC 15	12.7N	104	33.0W	S	CERE02WT
0812	06/08/82			MRMT E RAW	MAG TAPE 04	GDC 16	23.5N	105	22.6W	S	CERE02WT
0812	06/08/82			MRMT B RAW	MAG TAPE 05	GDC 16	23.5N	105	22.6W	S	CERE02WT
1256	8/ 8/82			MRMT E RAW	MAG TAPE 05	GDC 16	49.2N	99	59.1W	S	CERE02WT

\*\*\*SEABEAM SURVEY\*\*\*

2130	13/07/82			MRSV B SB	SURVEY A	GRD 18	07.0N	105	20.0W	F	CERE02WT
1500	15/07/82			MRSV E SB	SURVEY A	GRD 17	38.0N	106	12.0W	F	CERE02WT
0700	15/07/82			MRSV B SB	SURVEY B	GRD 17	42.0N	106	45.0W	F	CERE02WT
1830	16/07/82			MRSV E SB	SURVEY B	GRD 17	35.0N	107	22.0W	F	CERE02WT

GMT D / M / Y TIME DATE	LOC LOC TIME TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
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0200	17/07/82		MRSV B SB SURVEY C	GRD 16	15.0N	106 40.0W	F CERE02WT
2200	18/07/82		MRSV E SB SURVEY C	GRD 15	40.0N	107 53.0W	F CERE02WT
0500	04/08/82		MRSV B SB SURVEY A'	GRD 18	05.8N	105 24.6W	F CERE02WT
1700	05/08/82		MRSV E SB SURVEY A'	GRD 17	18.1N	105 37.9W	F CERF02WT
2130	06/08/82		MRSV B SB SURVEY MICHODACAN	GRD 16	52.1N	102 39.8W	F CERE02WT
1300	07/08/82		MBSV E SB SURVEY TROUGH	GRD 16	32.5N	103 39.8W	F CERE02WT

## \*\*\*SEA QUAKE SURVEY\*\*\*

0147	13/ 7/82		SQSV B SEA QUAKE RECORDING	UCS 18	55.9N	109 06.1W	S CERE02WT
0250	15/ 7/82		SQSV E SBSD 01-05 R-01	UCS 17	48.3N	105 49.0W	S CERE02WT
1647	20/ 7/82		SQSV B SEA QUAKE RECORDING	UCS 10	03.7N	104 16.2W	S CERE02WT
2343	20/ 7/82		SQSV E SBSD 06-08 R-02	UCS 10	17.5N	103 39.2W	S CERE02WT
2349	20/ 7/82		SQSV B SEA QUAKE RECORDING	UCS 10	17.2N	103 40.4W	S CERE02WT
1820	21/ 7/82		SQSV E SBSD 06-08 R-03	UCS 10	22.7N	103 41.2W	S CERE02WT
1832	21/ 7/82		SQSV B SEA QUAKE RECORDING	UCS 10	22.1N	103 43.6W	S CERE02WT
1930	22/ 7/82		SQSV E SBSD 07-11 R-04	UCS 09	07.4N	104 11.4W	S CERE02WT
2315	24/ 7/82		SQSV B SEA QUAKE RECORDING	UCS 11	55.1N	103 46.9W	S CERE02WT
0828	30/ 7/82		SQSV E SBSD 12-14 R-05	UCS 15	12.7N	104 29.7W	S CERE02WT
0830	30/ 7/82		SQSV B SEA QUAKE RECORDING	UCS 15	12.7N	104 30.1W	S CERE02WT
0036	1/ 8/82		SQSV E SBSD 15-23 R-06	UCS 15	21.1N	104 51.8W	S CERE02WT
0100	1/ 8/82		SQSV B SEA QUAKE RECORDING	UCS 15	25.6N	104 52.1W	S CERE02WT
0300	2/ 8/82		SQSV E SBSD 20-23 R-07	UCS 15	29.2N	105 09.0W	S CERE02WT

## \*\*\* SONOBUOY DROP \*\*\*

0147	13/ 7/82		SRSD SONOBUOY DRIFTING 01	UCS 18	55.9N	109 06.1W	S CERE02WT
1506	13/ 7/82		SRSD SONOBUOY DRIFTING 02	UCS 18	02.8N	107 05.7W	S CERE02WT
2035	14/ 7/82		SRSD SONOBUOY DRIFTING 03	UCS 17	52.2N	105 39.6W	S CERE02WT
2045	14/ 7/82		SRSD SONOBUOY DRIFTING 04	UCS 17	51.9N	105 37.9W	S CERE02WT
2100	14/ 7/82		SRSD SONOBUOY DRIFTING 05	UCS 17	51.4N	105 35.4W	S CERE02WT
1647	20/ 7/82		SRSD SONOBUOY DRIFTING 06	UCS 10	03.7N	104 16.2W	S CERE02WT
1955	20/ 7/82		SRSD SONOBUOY DRIFTING 07	UCS 10	20.5N	103 56.2W	S CERE02WT
0057	21/ 7/82		SRSD SONOBUOY DRIFTING 08	UCS 10	13.9N	103 53.9W	S CERE02WT
0803	22/ 7/82		SRSD SONOBUOY DRIFTING 09	UCS 09	00.7N	104 13.2W	S CERE02WT
0810	22/ 7/82		SRSD SONOBUOY DRIFTING 10	UCS 08	59.8N	104 14.2W	S CERE02WT
0822	22/ 7/82		SRSD SONOBUOY DRIFTING 11	UCS 08	58.1N	104 12.9W	S CERE02WT
2319	24/ 7/82		SRSD SONOBUOY DRIFTING 12	UCS 11	55.1N	103 46.1W	S CERE02WT
0038	25/ 7/82		SRSD SONOBUOY DRIFTING 13	UCS 11	52.4N	103 52.7W	S CERE02WT
0055	25/ 7/82		SRSD SONOBUOY DRIFTING 14	UCS 11	52.6N	103 49.3W	S CERE02WT
0024	30/ 7/82		SRSD SONOBUOY DRIFTING 15	UCS 15	04.5N	104 32.0W	S CERE02WT
0052	30/ 7/82		SRSD SONOBUOY DRIFTING 16	UCS 15	04.9N	104 26.3W	S CERE02WT
0136	30/ 7/82		SRSD SONOBUOY DRIFTING 17	UCS 15	06.8N	104 31.1W	S CERE02WT

						23SEP82		PAGE		6	
GMT D /M /Y	LOC LOC	CODE	SAMPLE IDENT.	CODE	LAT.	LONG.	LEG-SHIP				
TIME DATE	TIME TZ	SAMP		DISP			CRUISE				
0747	30/ 7/82	SBSD	SONOBUOY DRIFTING 18	UCS 15	10.4N	104 29.0W	S CERE02WT				
0231	31/ 7/82	SBSD	SONOBUOY DRIFTING 19	UCS 15	16.3N	104 42.7W	S CERE02WT				
1430	31/ 7/82	SBSD	SONOBUOY DRIFTING 20	UCS 15	19.4N	104 52.9W	S CERE02WT				
1457	31/ 7/82	SBSD	SONOBUOY DRIFTING 21	UCS 15	20.5N	104 47.6W	S CERE02WT				
1542	31/ 7/82	SBSD	SONOBUOY DRIFTING 22	UCS 15	21.6N	104 51.1W	S CERE02WT				
1900	31/ 7/82	SBSD	SONOBUOY DRIFTING 23	UCS 15	27.1N	104 41.4W	S CERE02WT				

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

1830	11/ 7/82	BTXP	BATHYTHERMOGRAM-AN	GDC 22	53.2N	110 13.5W	S CERE02WT				
2227	17/ 7/82	BTXP	BATHYTHERMOGRAM-AN	GDC 16	00.7N	107 40.0W	S CERE02WT				
2057	28/ 7/82	BTXP	BATHYTHERMOGRAM-AN	GDC 14	33.0N	104 15.7W	S CERE02WT				
9900			END SAMPLE INDEX				CERE02WT				