

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

(Issued January 1989)

ROUNDABOUT EXPEDITION

LEG 10

=====

R/V Washington

Yokosuka, Japan (9 November 1988)
to
Majuro, Marshall Is. (12 December 1988)

Chief Scientist: E. L. Winterer
Scripps Institution of Oceanography

Resident Marine Technician - Gene Pillard

Post-Cruise Processing and Report Preparation
by Geological Data Center, Scripps Institution of Oceanography

Data Collection and Processing Funded by NSF
Grant Number OCE87-02835

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.# 239

INFORMAL REPORT AND INDEX OF NAVIGATION
AND UNDERWAY GEOPHYSICAL DATA

Processed by the Geological Data Center
Scripps Institution of Oceanography

Contents:

-
- Index Chart - gives track of cruise leg, dates, ports, and mileage of each type of data collected.
- Track Charts - annotated with dates and hour ticks.
- Profiles - depth, magnetic anomaly and gravity free air anomaly vs. distance. Sections of track having subbottom profiles (airgun or watergun) records have a wide black line along the bottom of the profile. Sections having Sea Beam are indicated by a narrow black line.
- Sample Index - list of beginning and end times and positions of all underway records as well as all other samples and measurements (geology, biology, physical oceanography, etc.) collected on the cruise leg.

NOTE: One or more of the underway data types may not be collected on a given 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, CA 92093. Phone (619)534-2752.

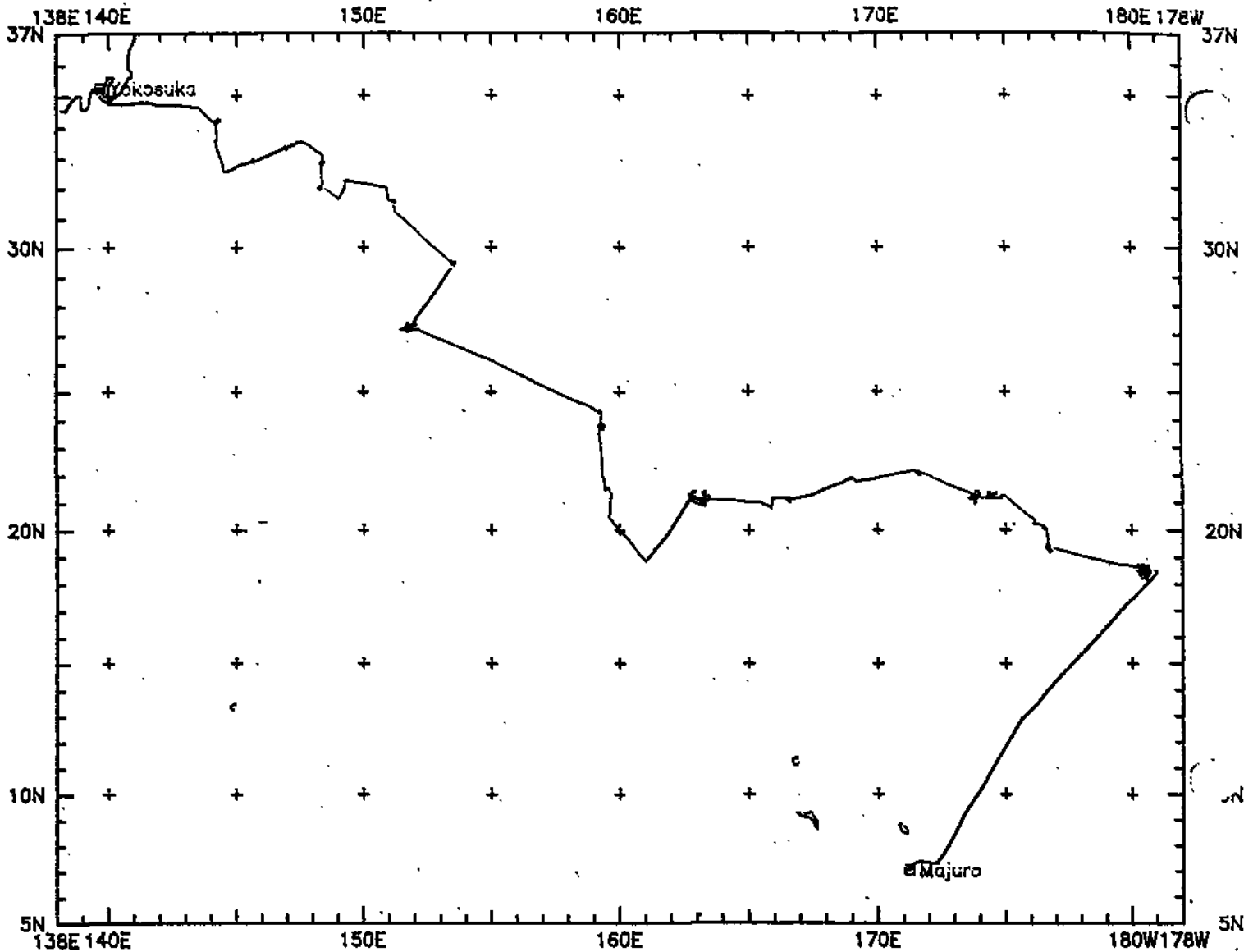
1. Navigation listing with times and positions of course and speed changes, fixes and drift velocity.
2. Depth compilation plots - compilation plots at the traditional scale of 4in/degree longitude (1:1,000,000) are no longer produced for Sea Beam cruises. Custom plots may be requested of vertical beam (2 $\frac{2}{3}$ degree beam width) depths retrieved at one minute intervals of ship time.
3. Plots of depths, magnetics or gravity profiles along track - custom plots at various map and profile scales on Mercator projection may be requested.
4. Separate time series files of navigation, depth, gravity and magnetics as well as these 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
 - c. Magnetometer records
 - d. Underway data log book

SIO Sea Beam Data

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 Sea Beam monitor record and navigation list.
- 3) Sea Beam merged tapes - Sea Beam data merged with navigation. (Navigation is edited to the extent that DR courses and speeds are edited and 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) Archive contour plots - 16"/degree chart scale, with contour interval nominally 50m, are generated for all transit lines. Some survey areas are plotted at appropriate scales as well. Available for inspection at data center; additional copies may be generated from plot files stored on tape.
- 5) 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).

revised October 1986



ROUNABOUT LEG 10 (RNDB10WT)

ROUNABOUT EXPEDITION LEG 10

CHIEF SCIENTIST:

E. L. Winterer (Scripps Institution of Oceanography)

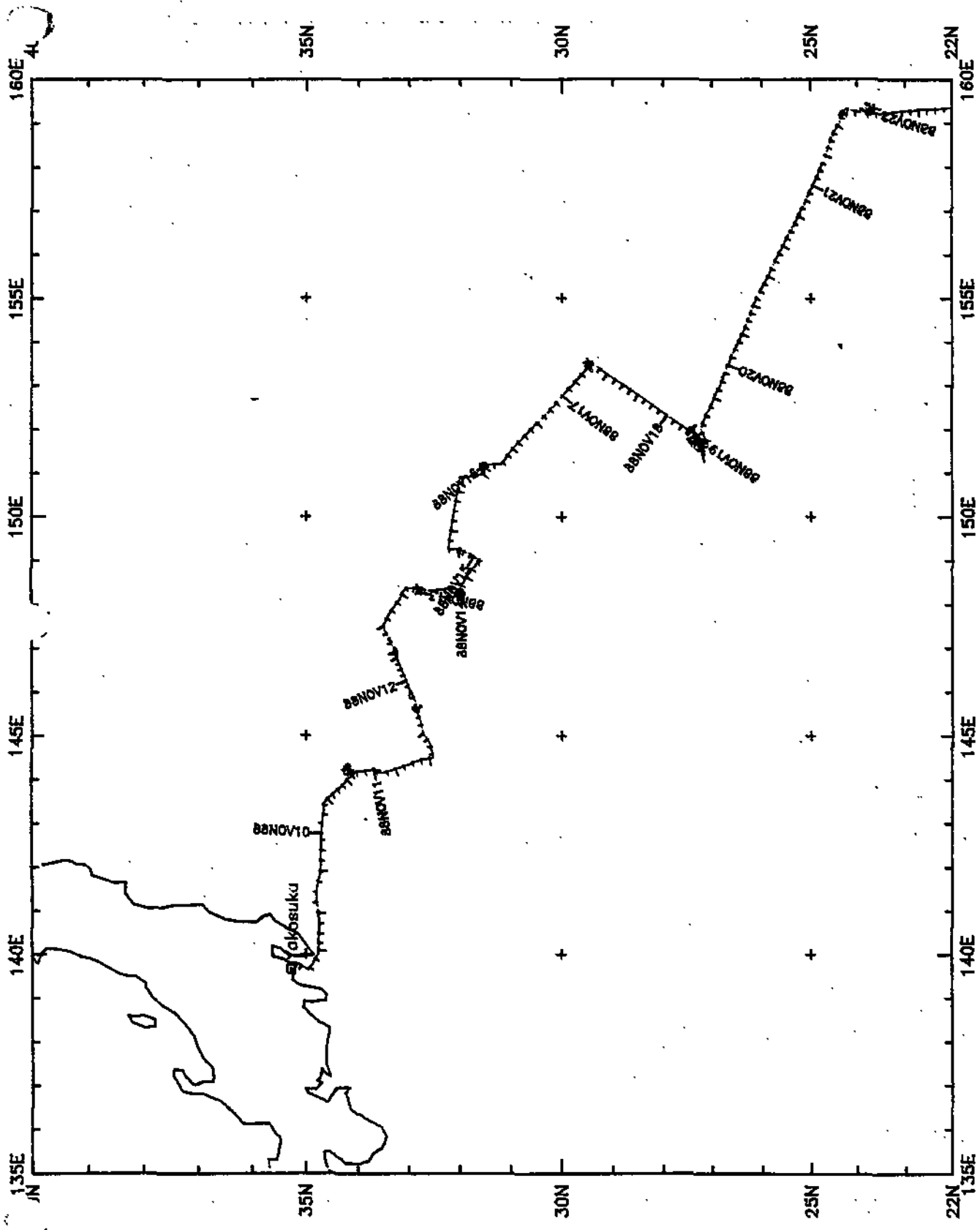
PORTS: Yokosuka, Japan - Majuro, Marshall Islands

DATES: 9 November - 12 December 1988

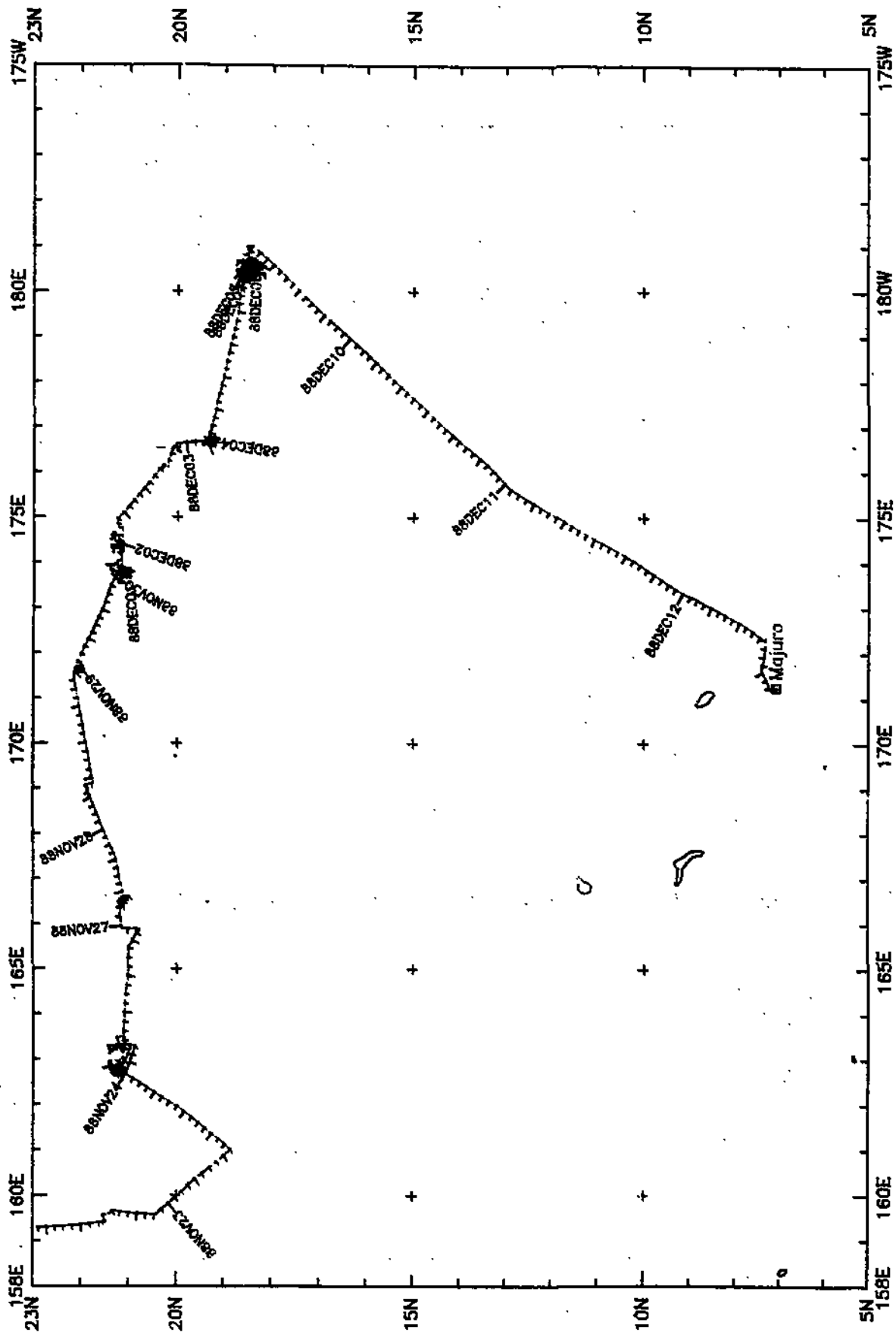
SHIP: R/V T. Washington

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

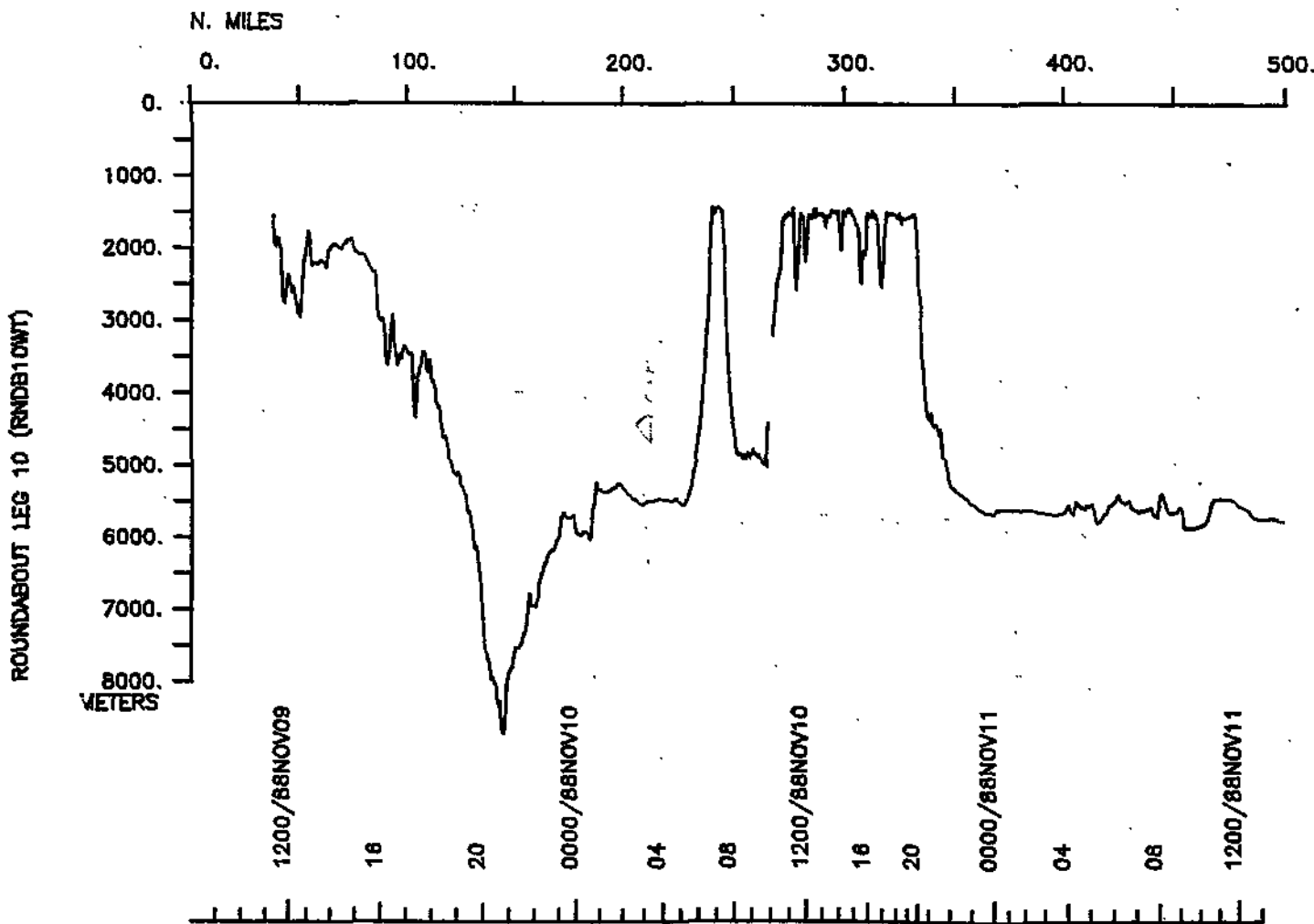
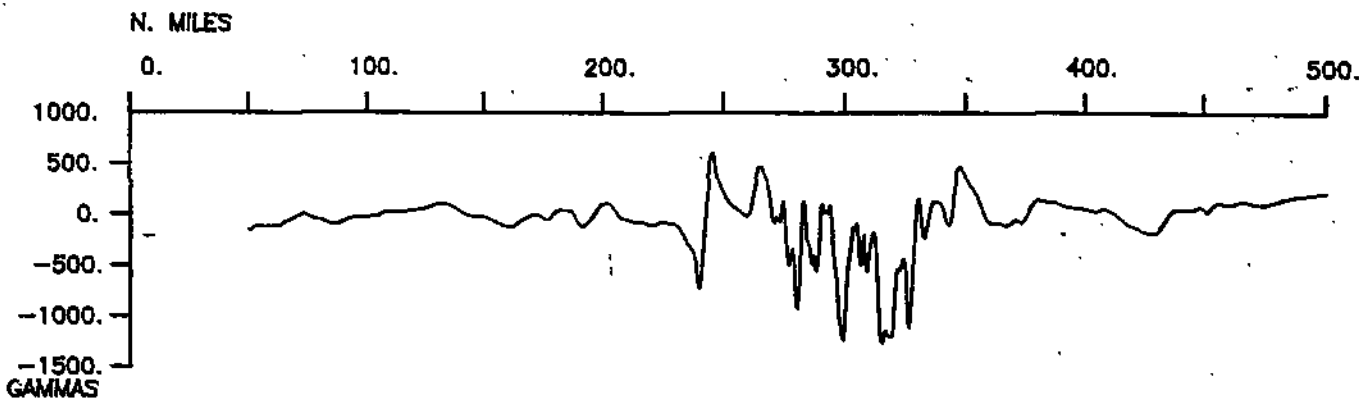
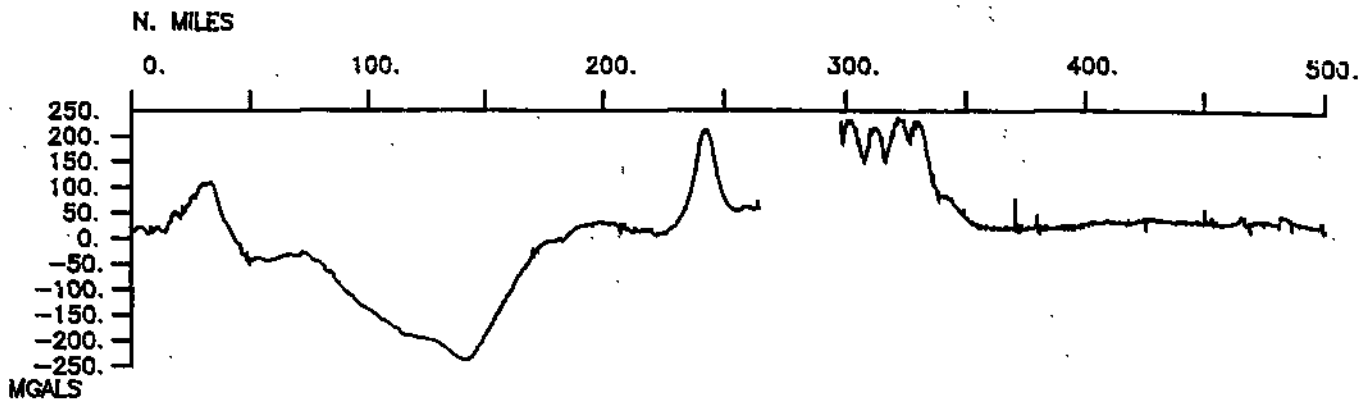
- 1) Cruise - 6811 miles
- 2) Bathymetry - 6746 miles
- 3) Magnetics - 6351 miles
- 4) Seismic Reflection - 6271 miles
- 5) Gravity - 6661 miles
- 6) Sea Beam - 6746 miles

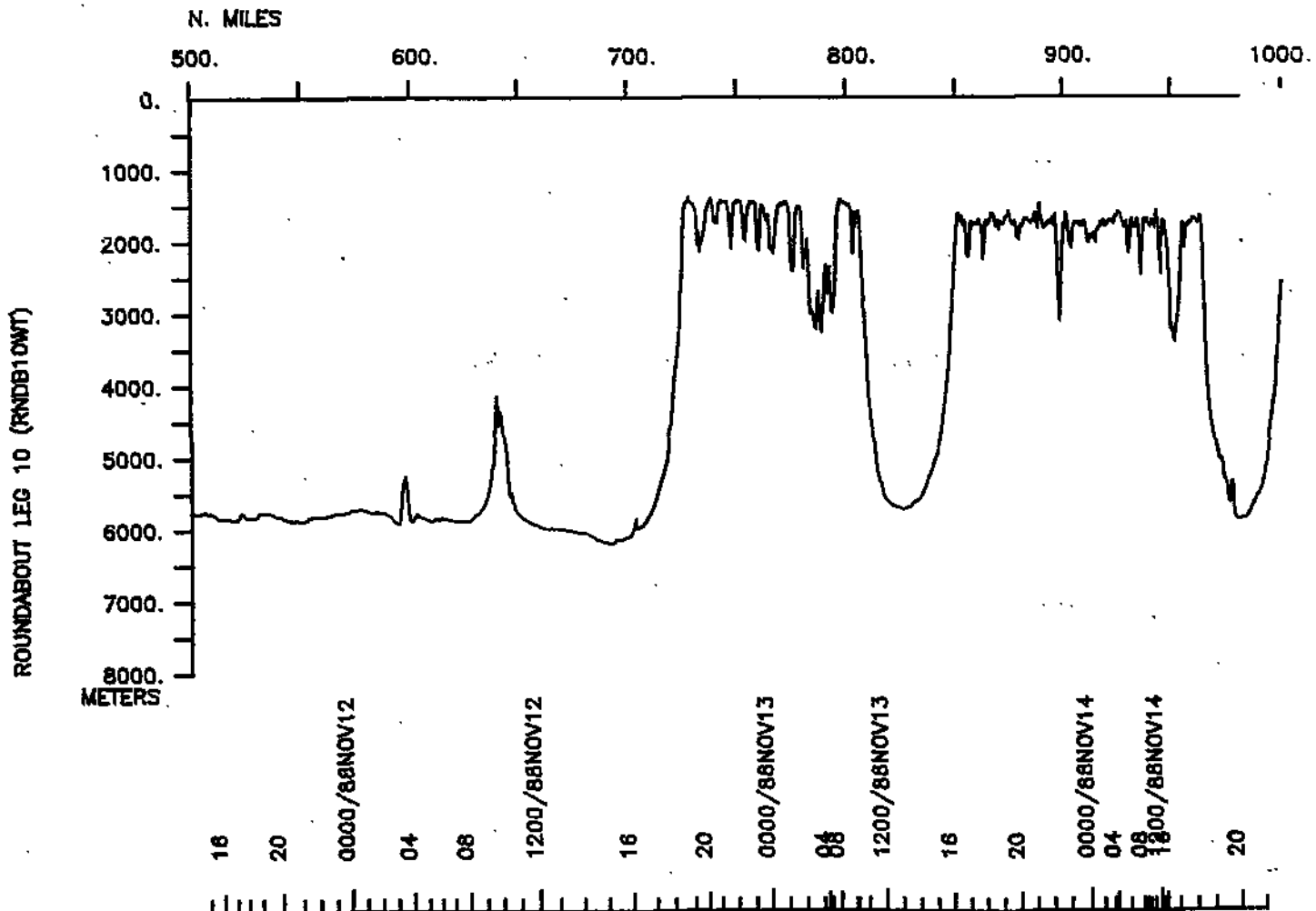
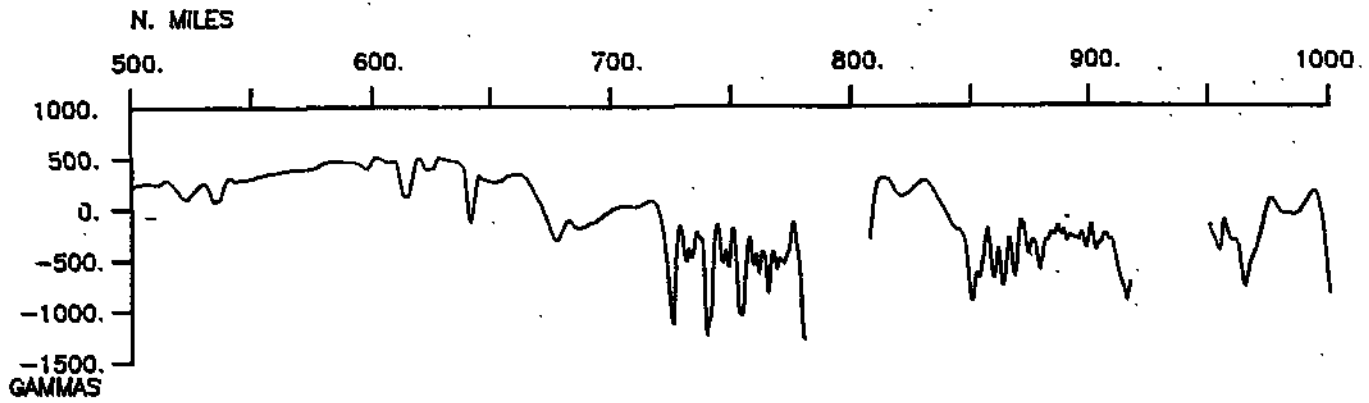
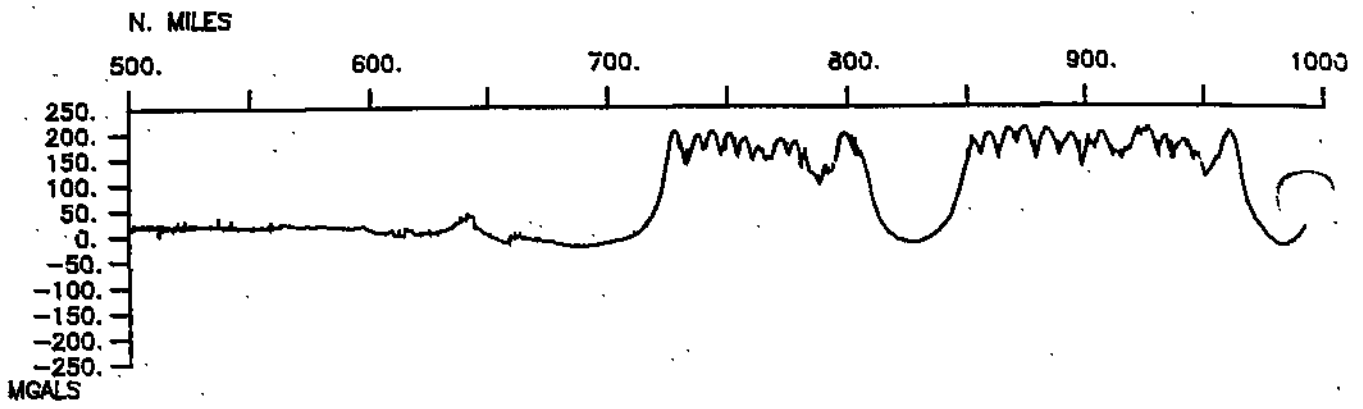


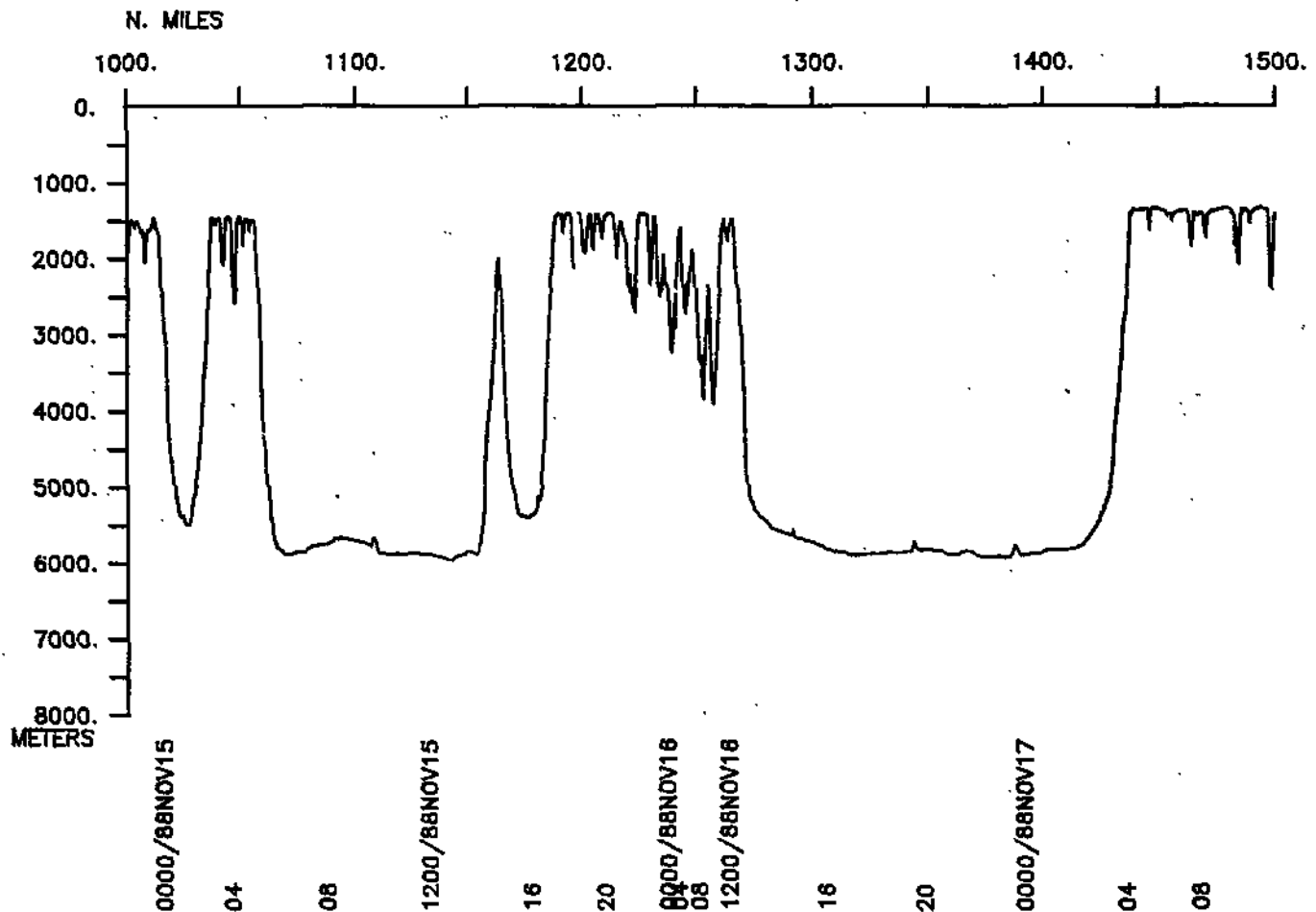
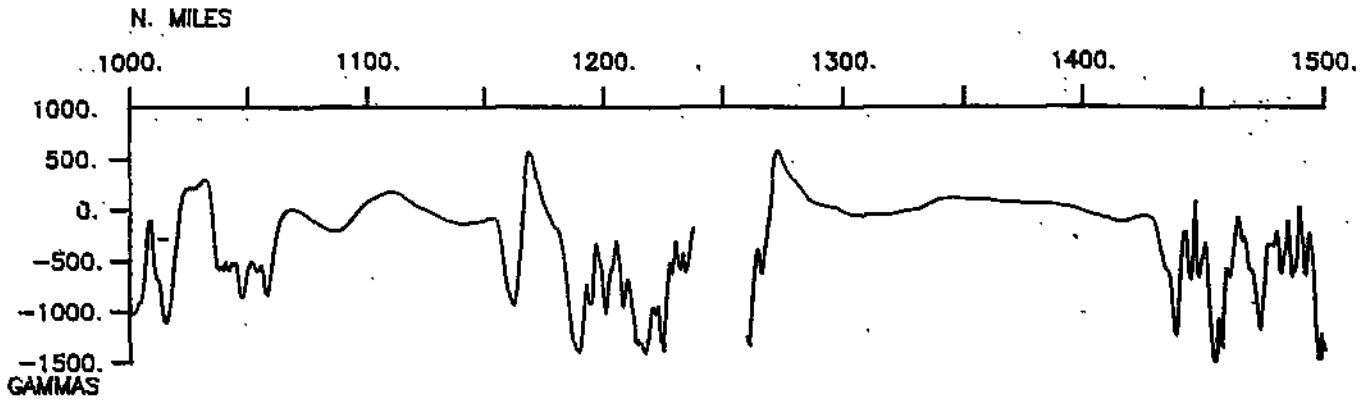
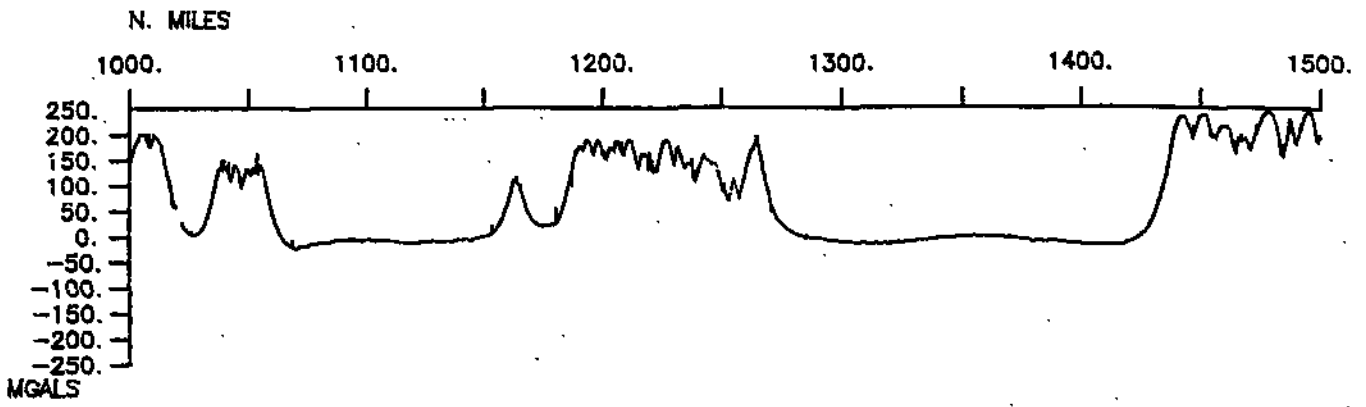
ROUNDABOUT LEG 10 (RNDB10WT)
 TRACK at .312ln/deg (1 of 2)



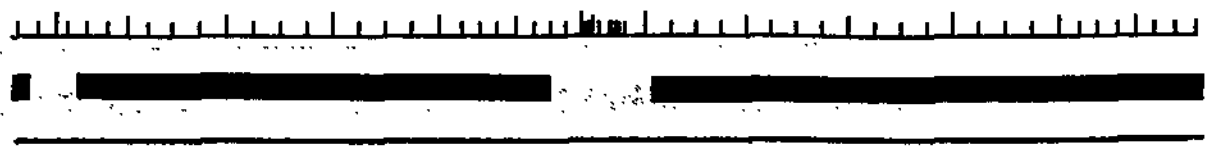
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 TRACK at .312in/deg (2 of 2)

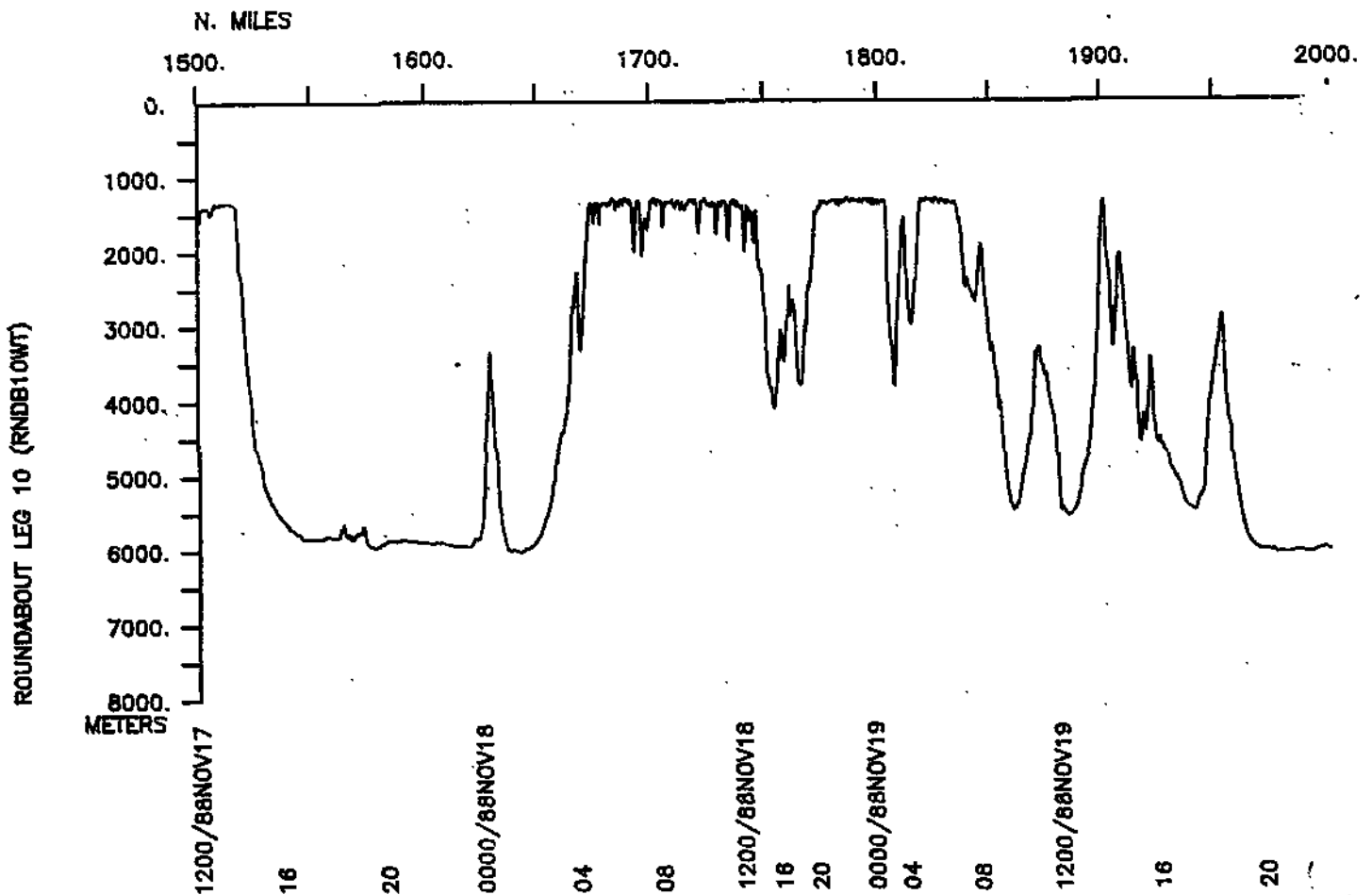
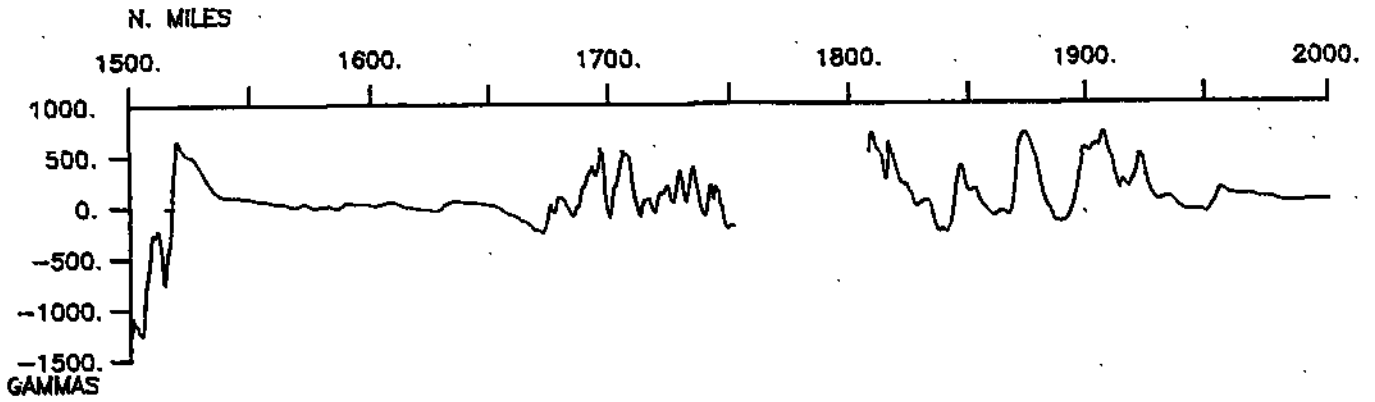
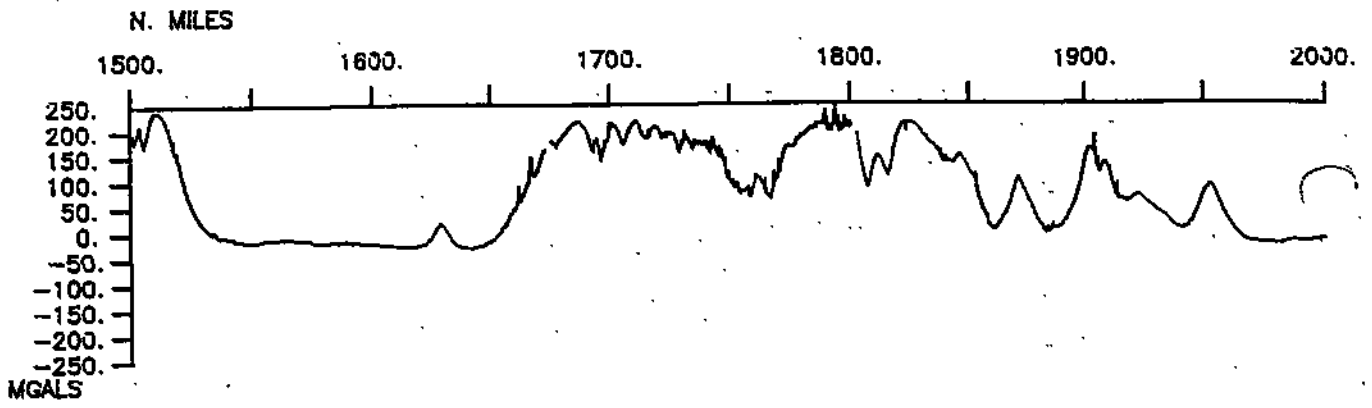


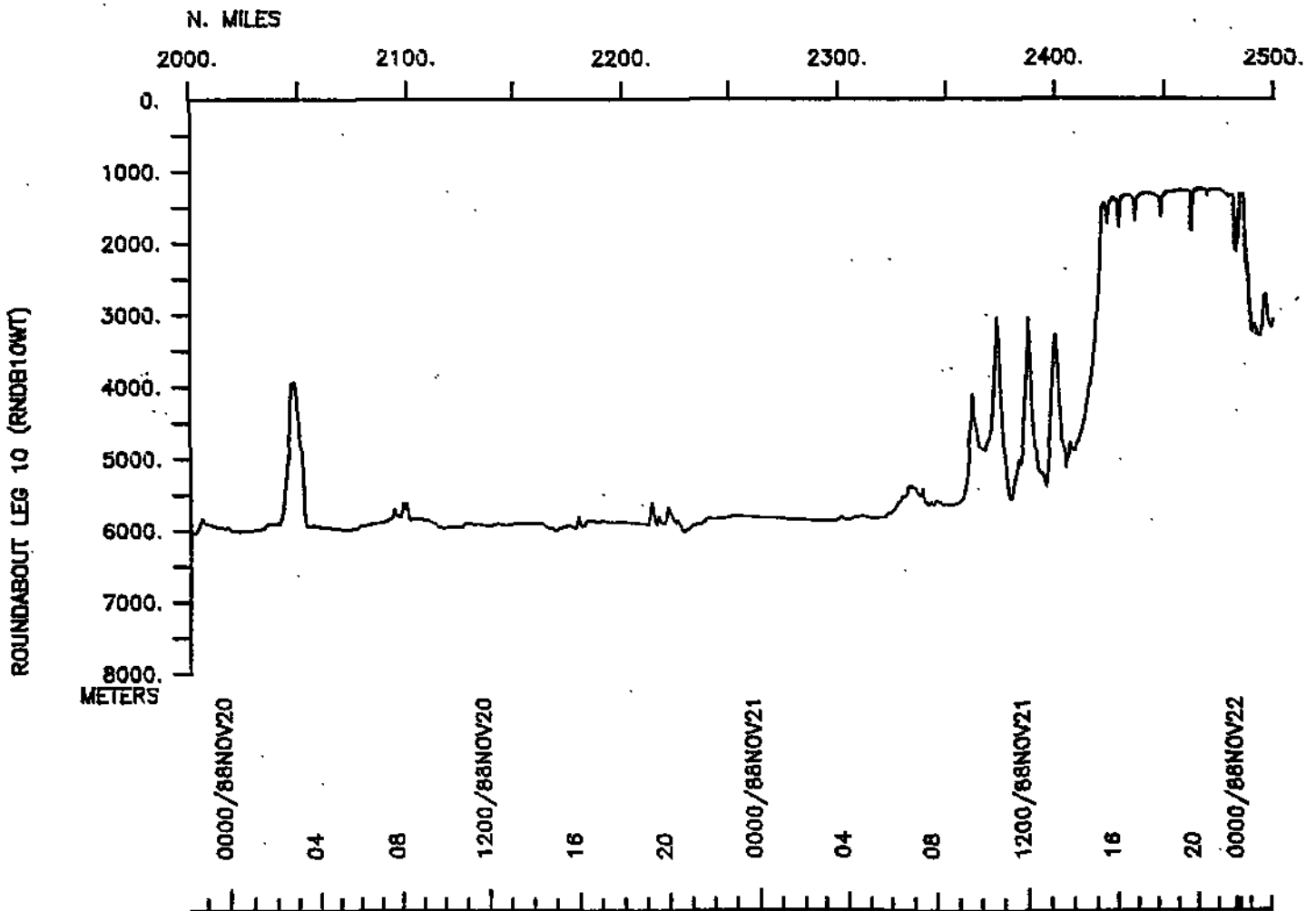
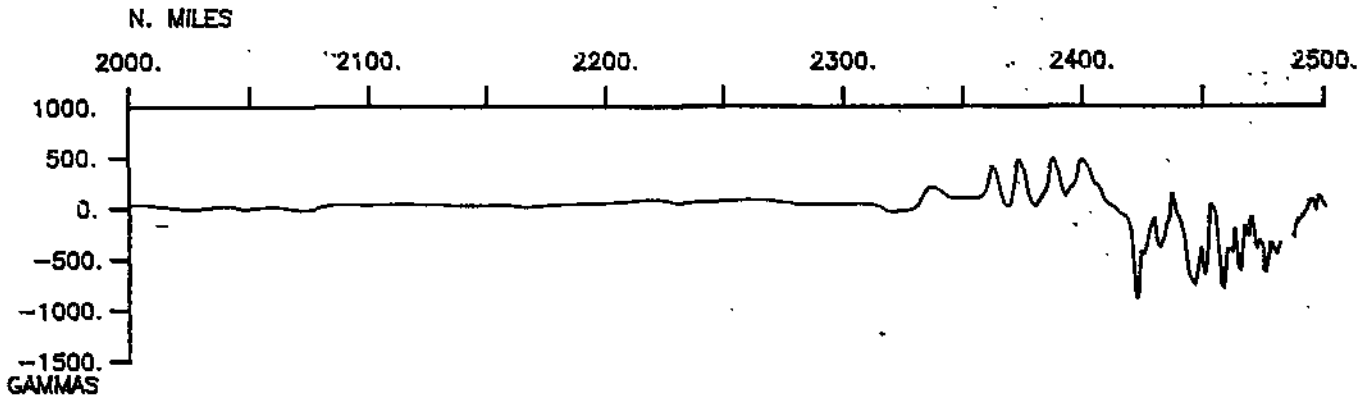
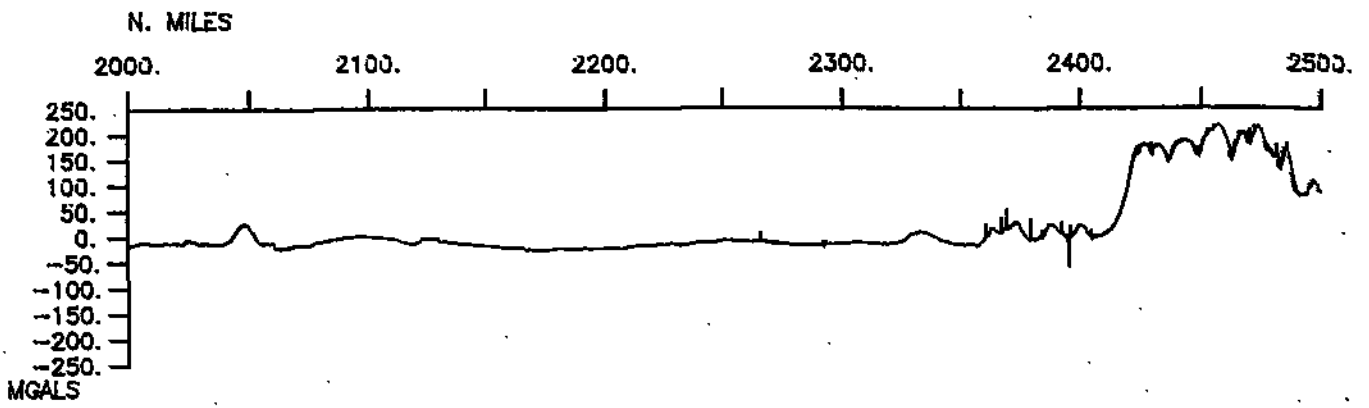


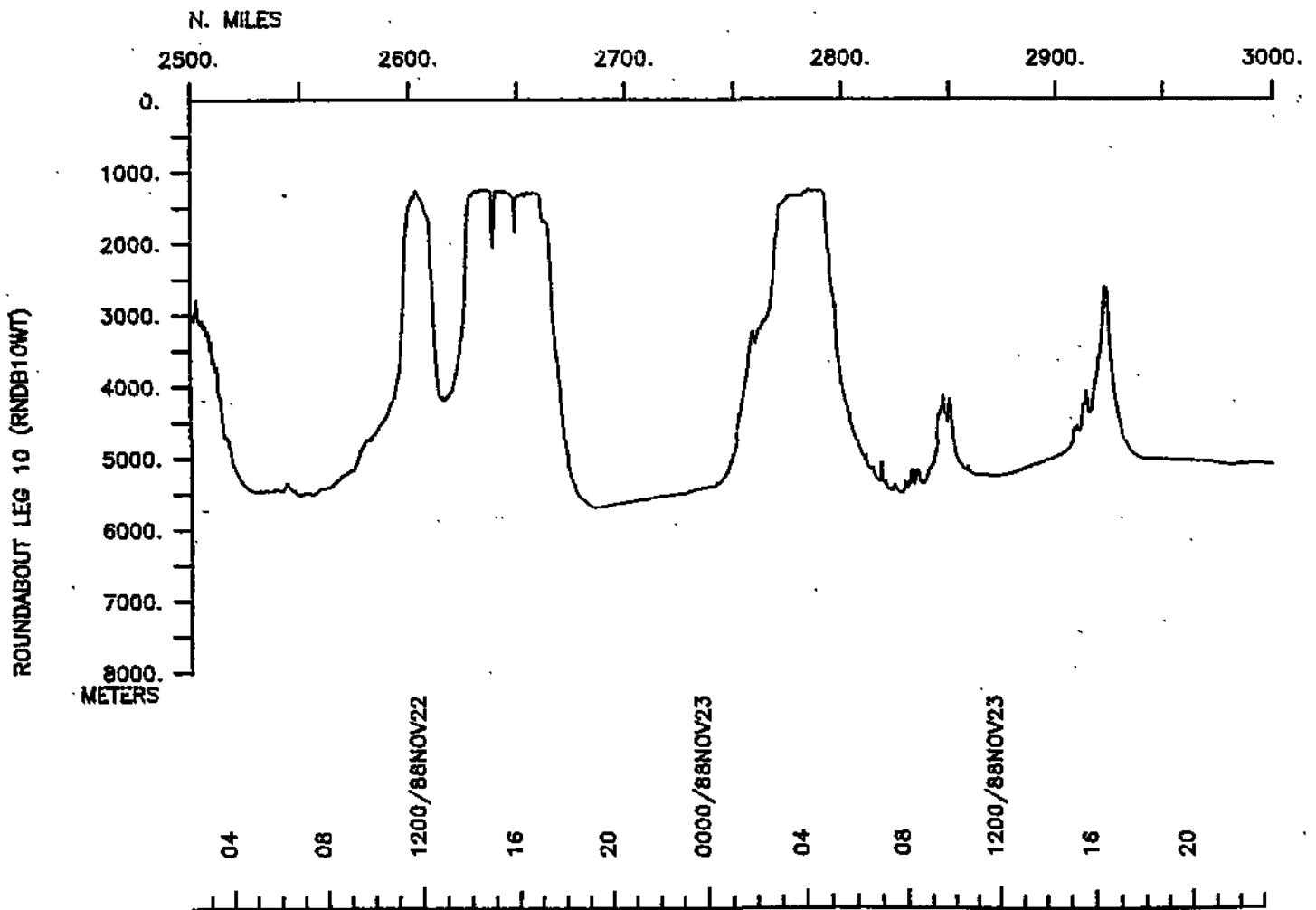
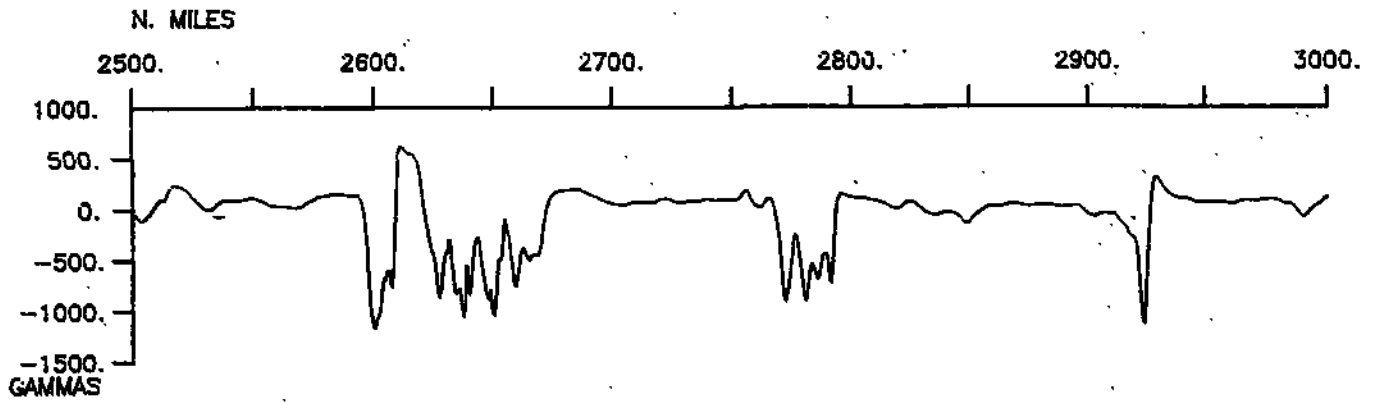
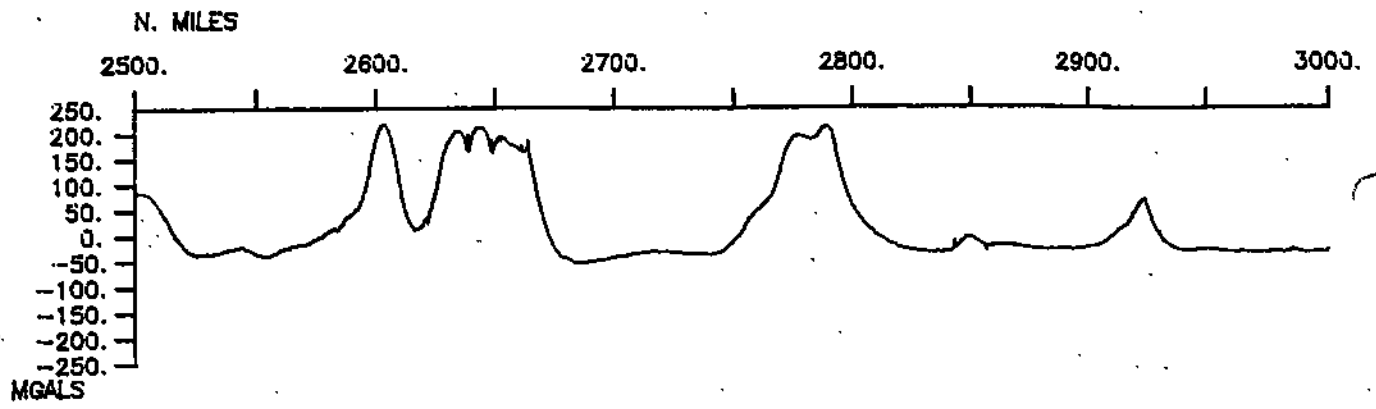


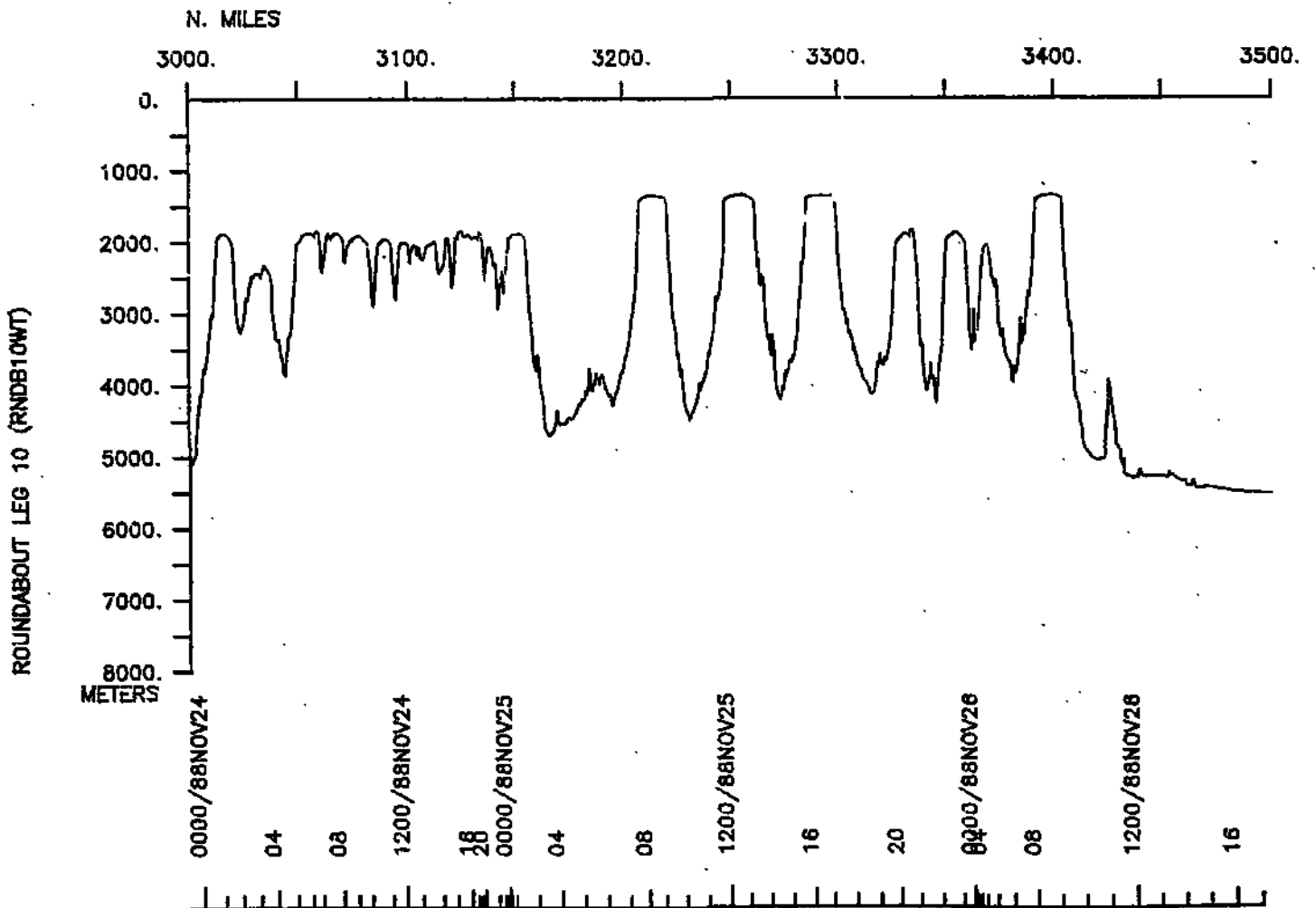
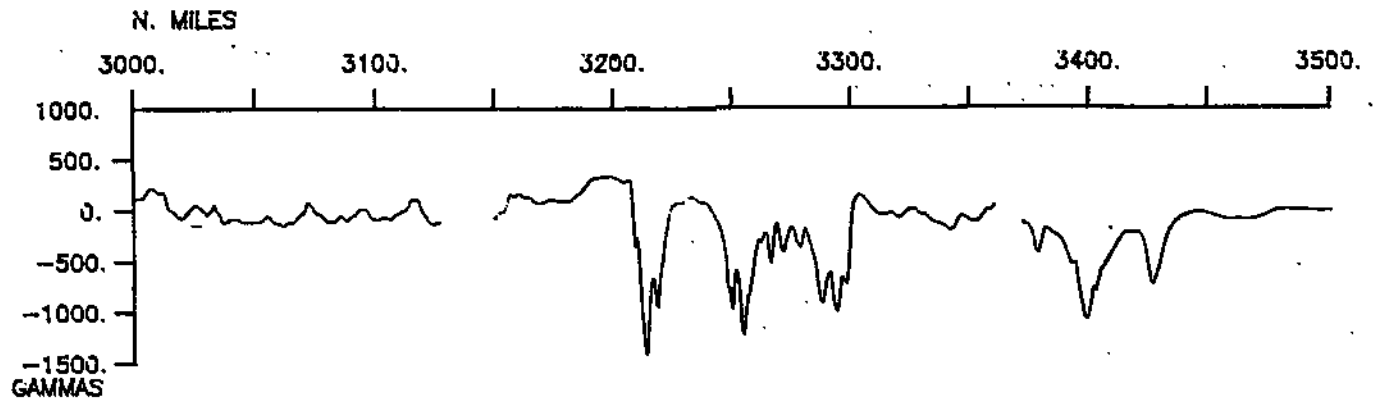
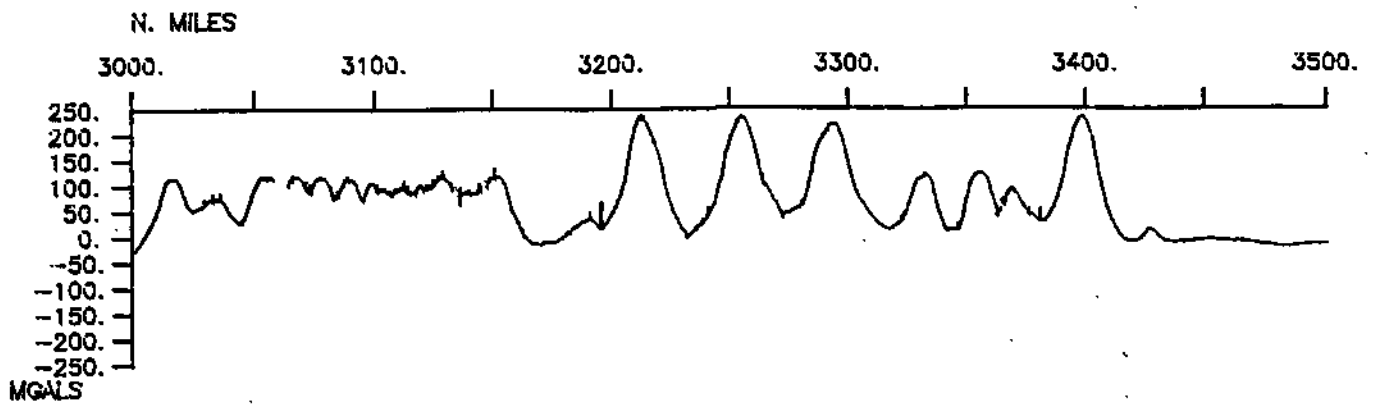
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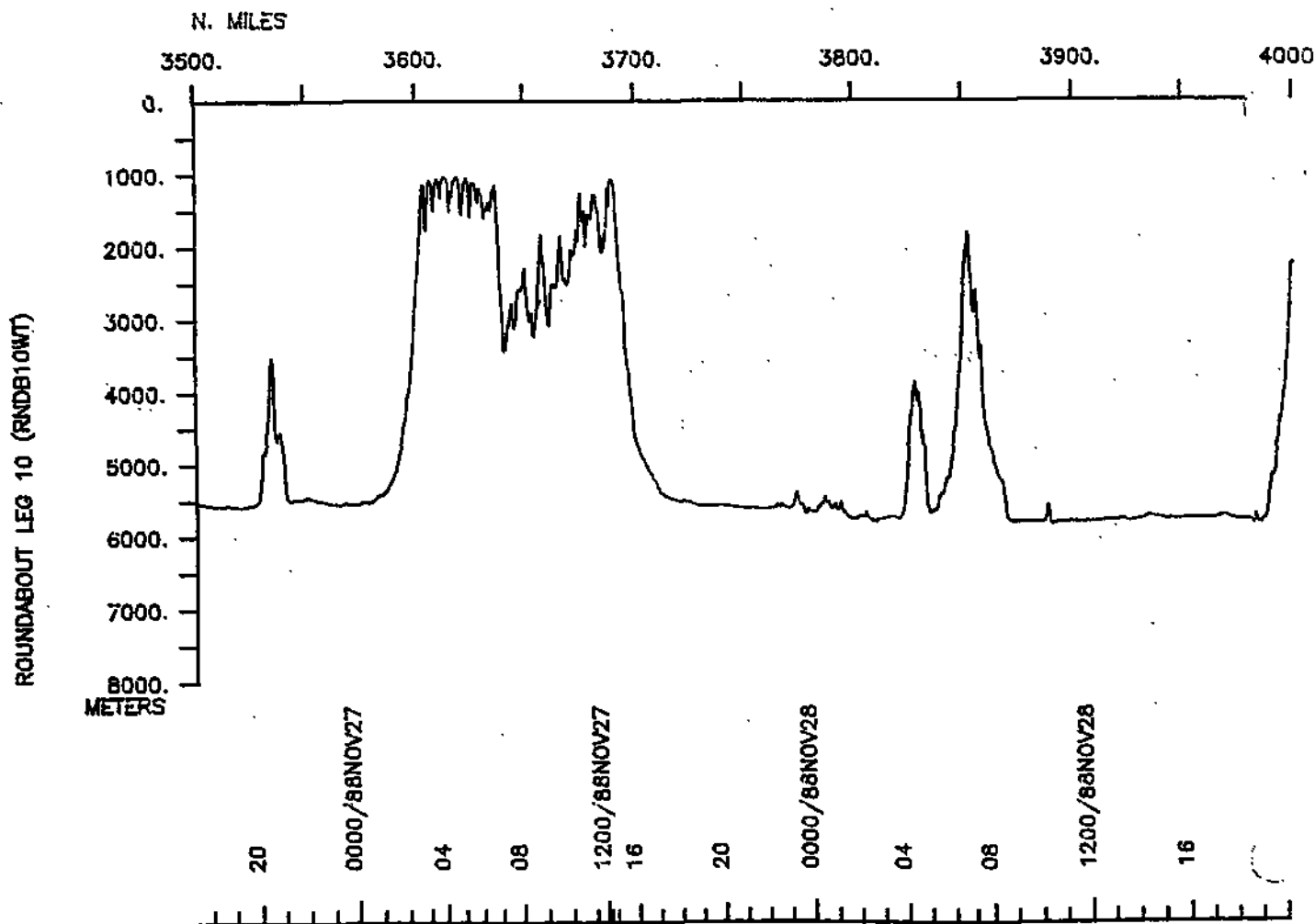
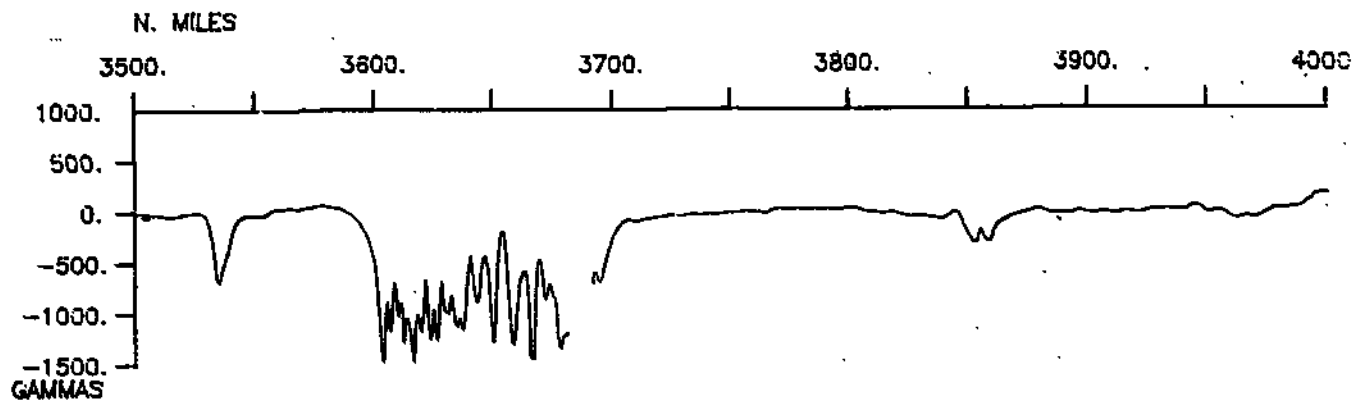
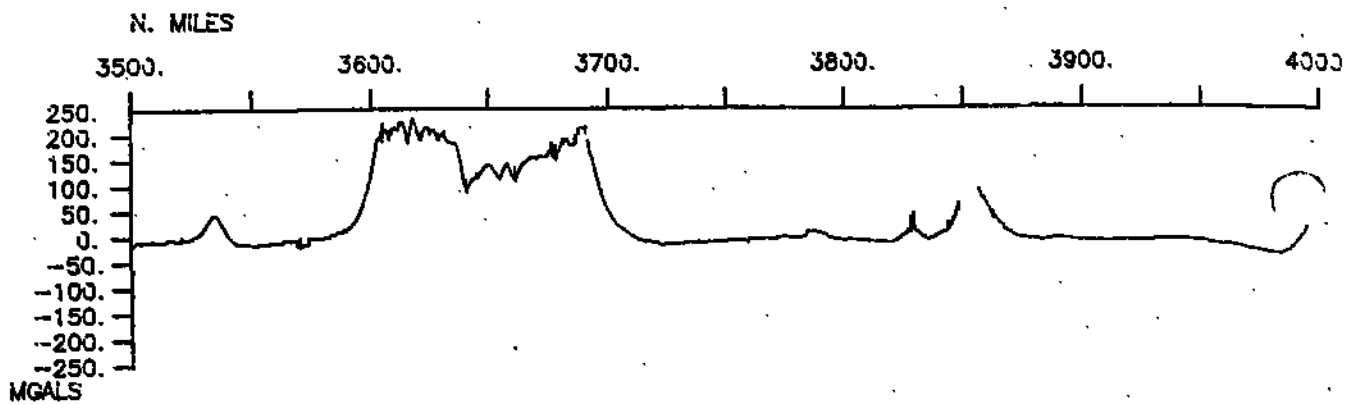


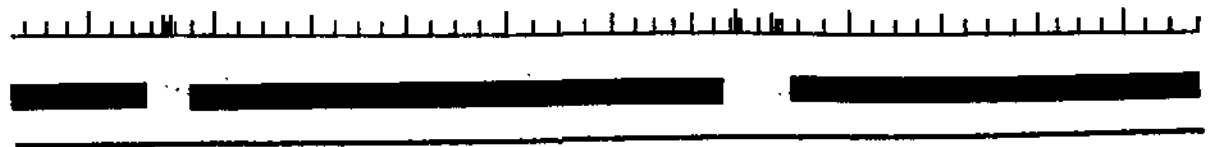
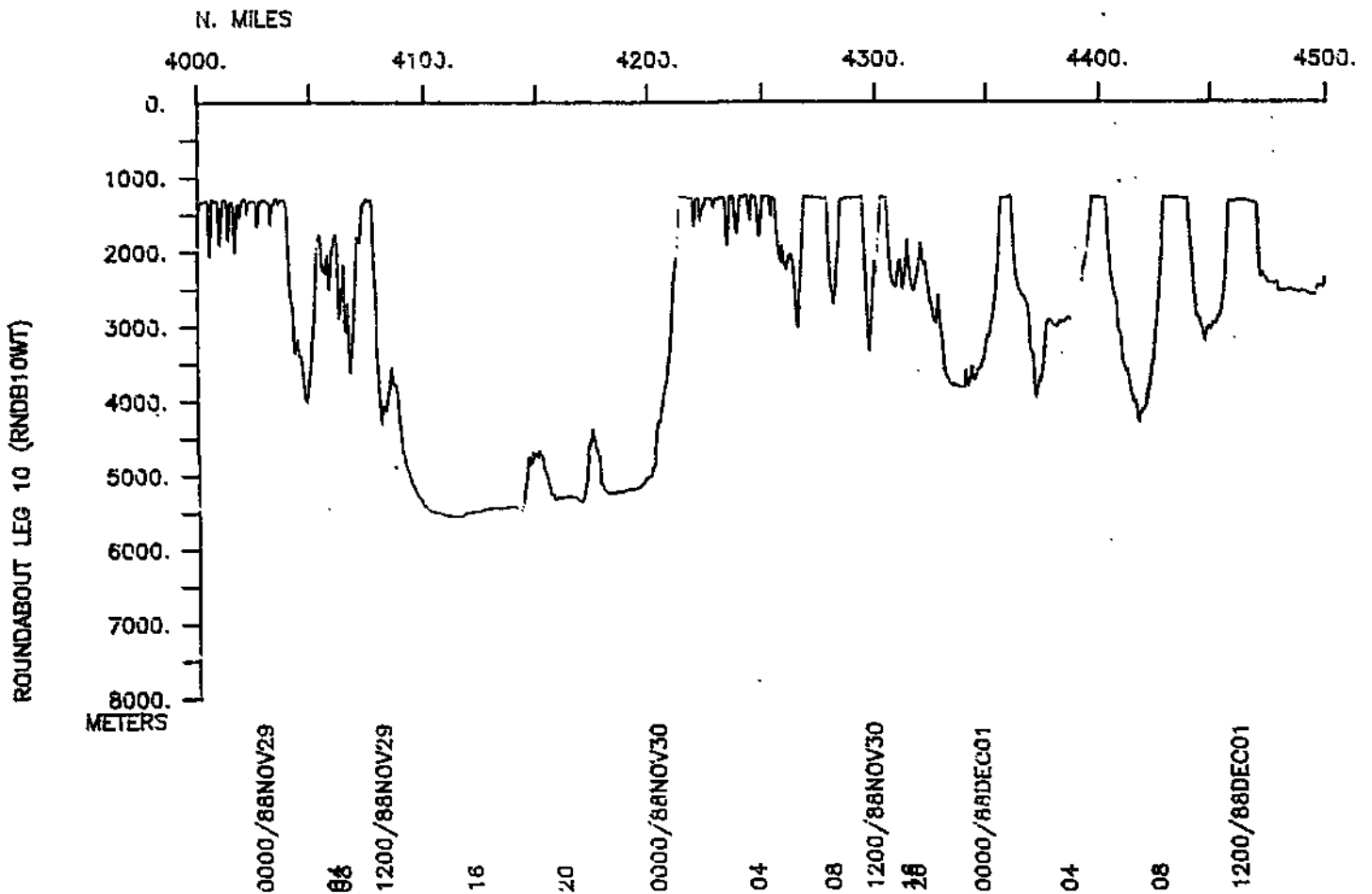
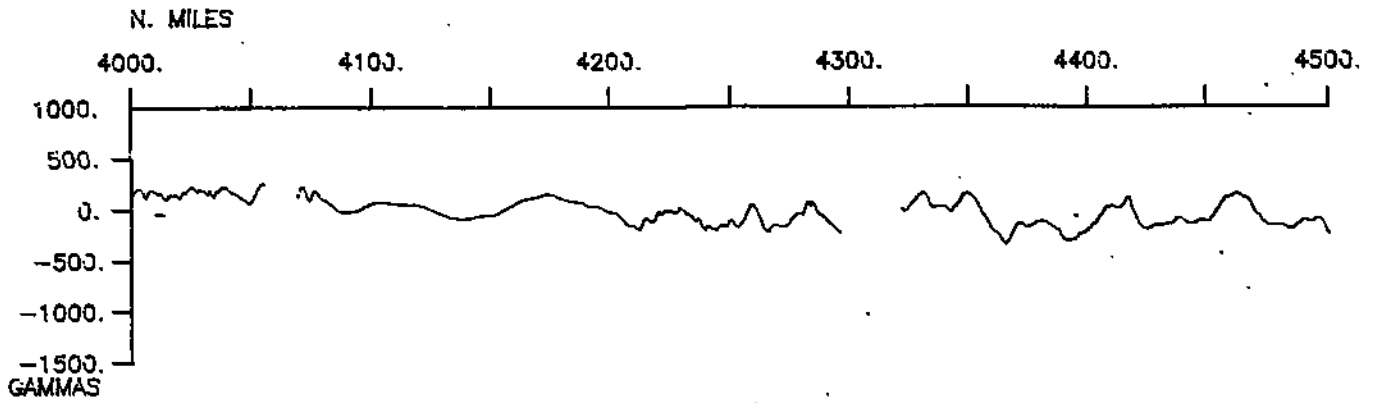
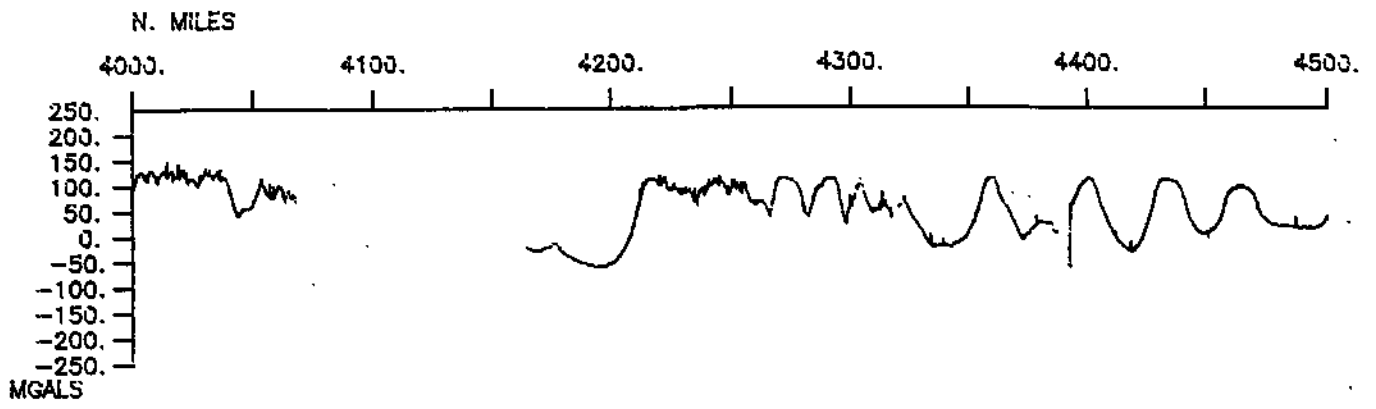


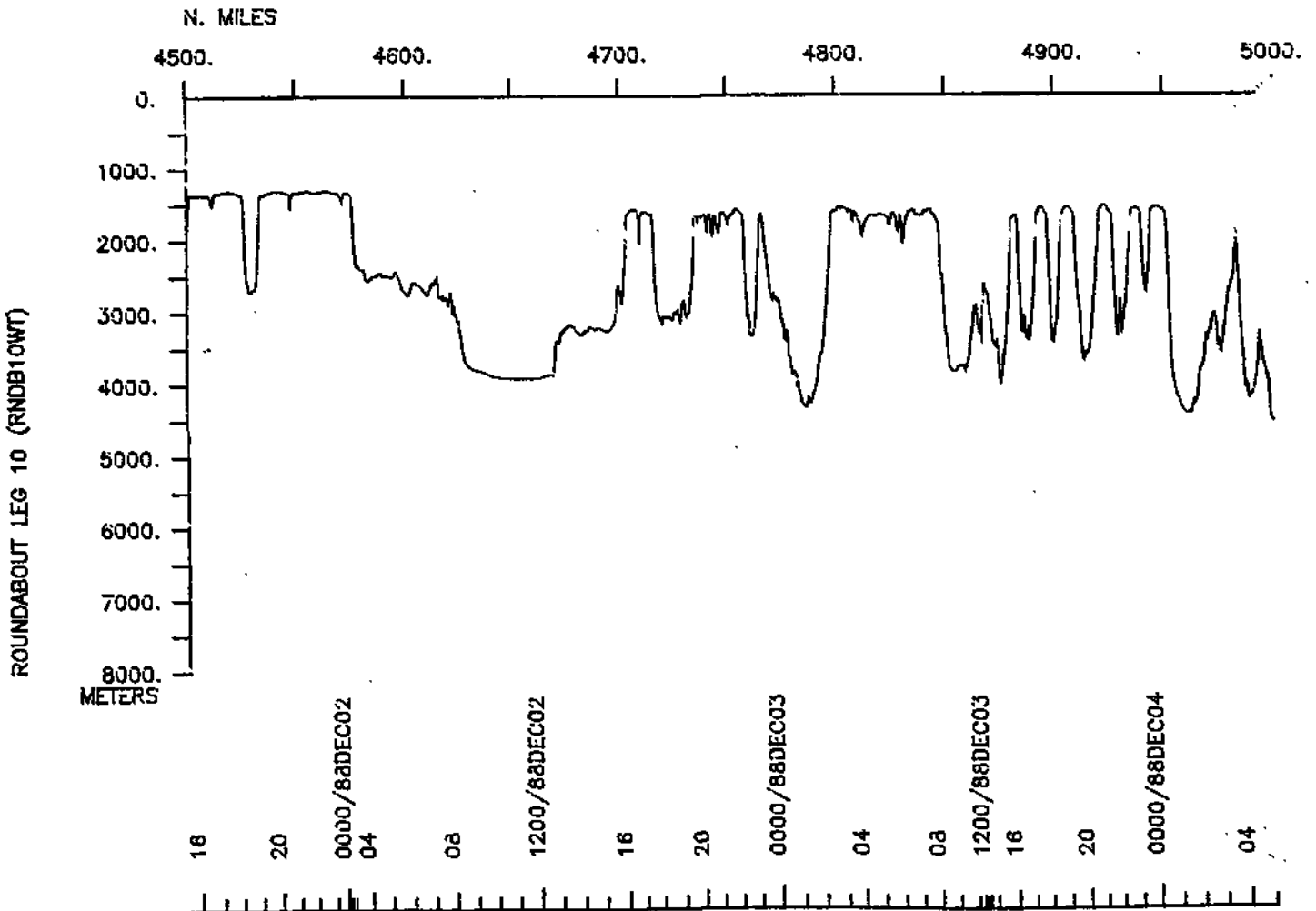
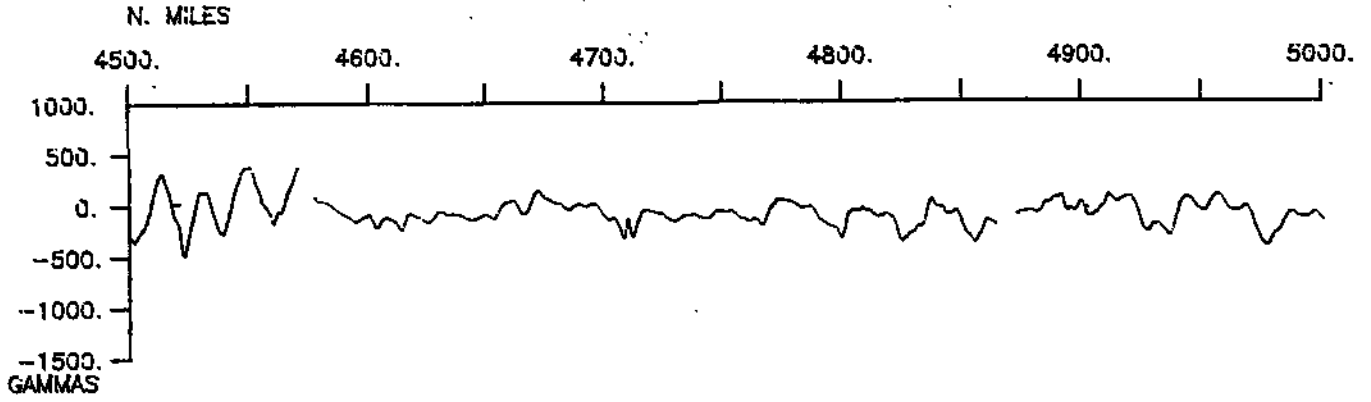
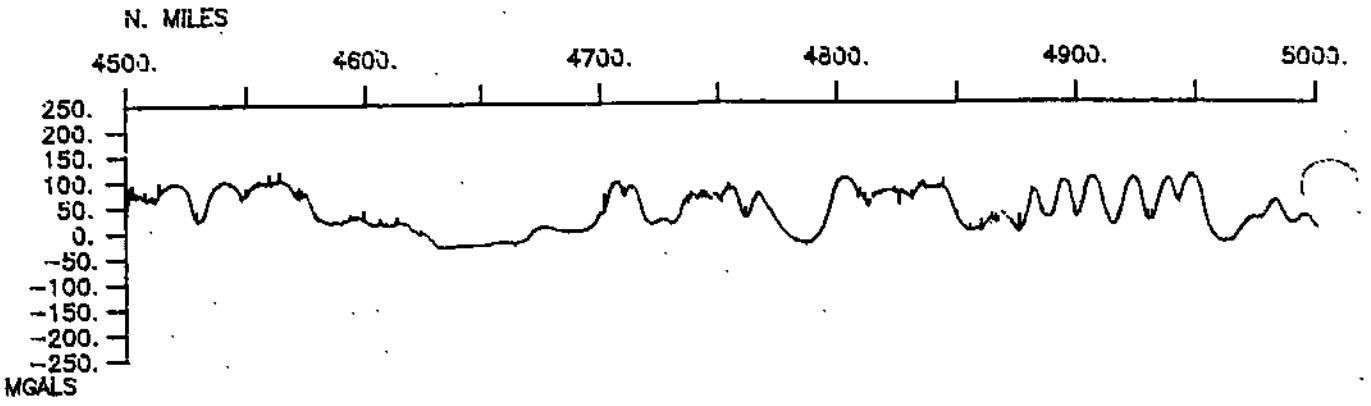


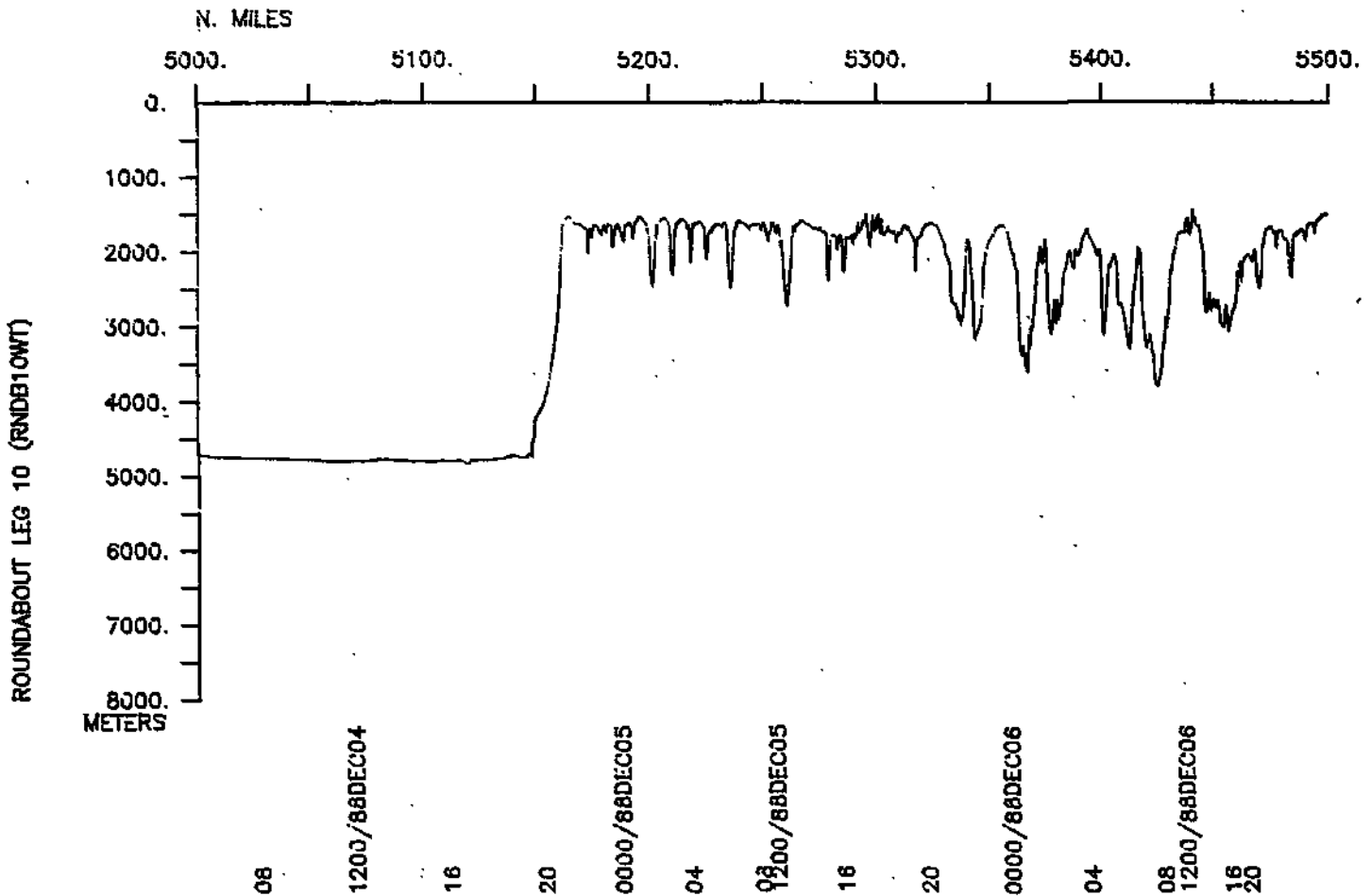
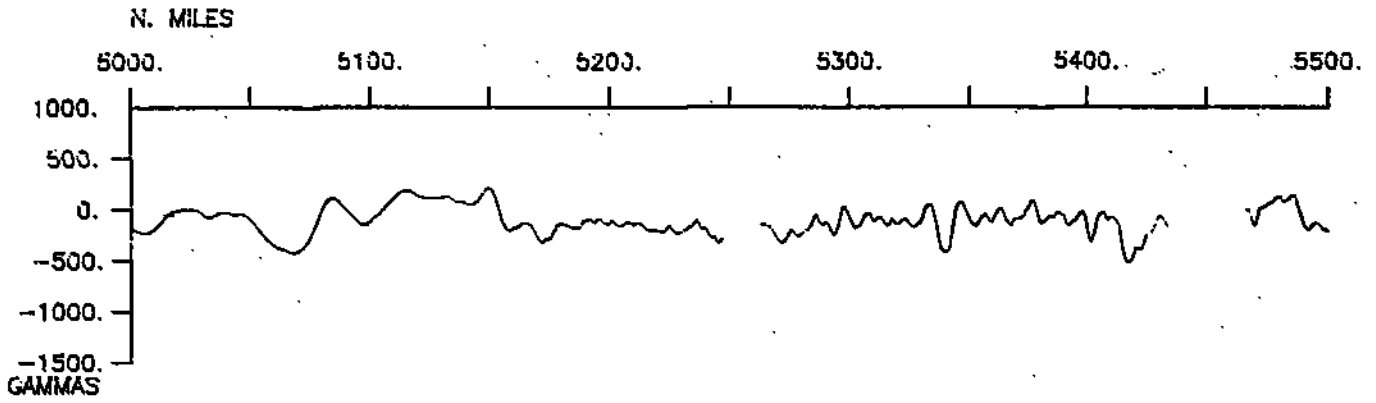
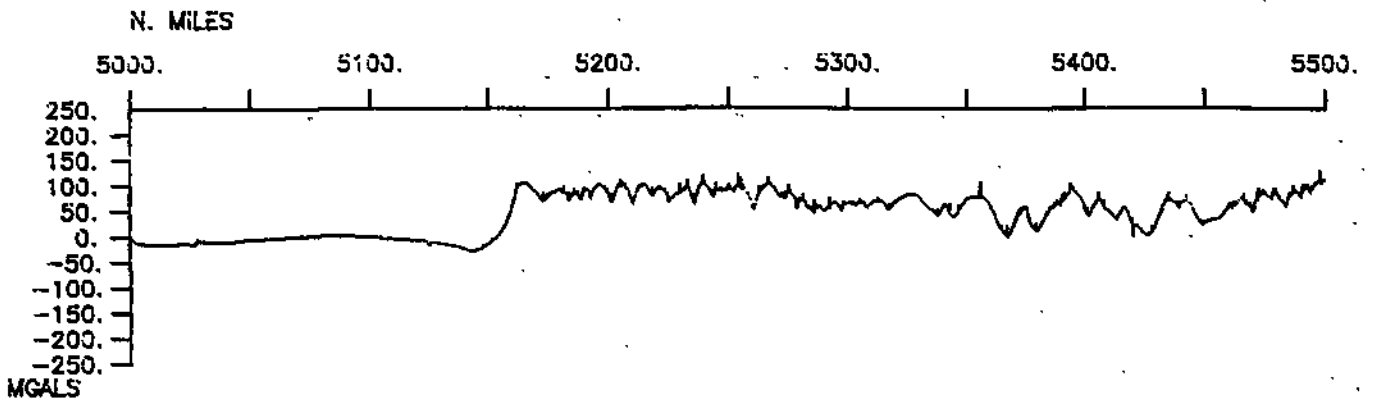


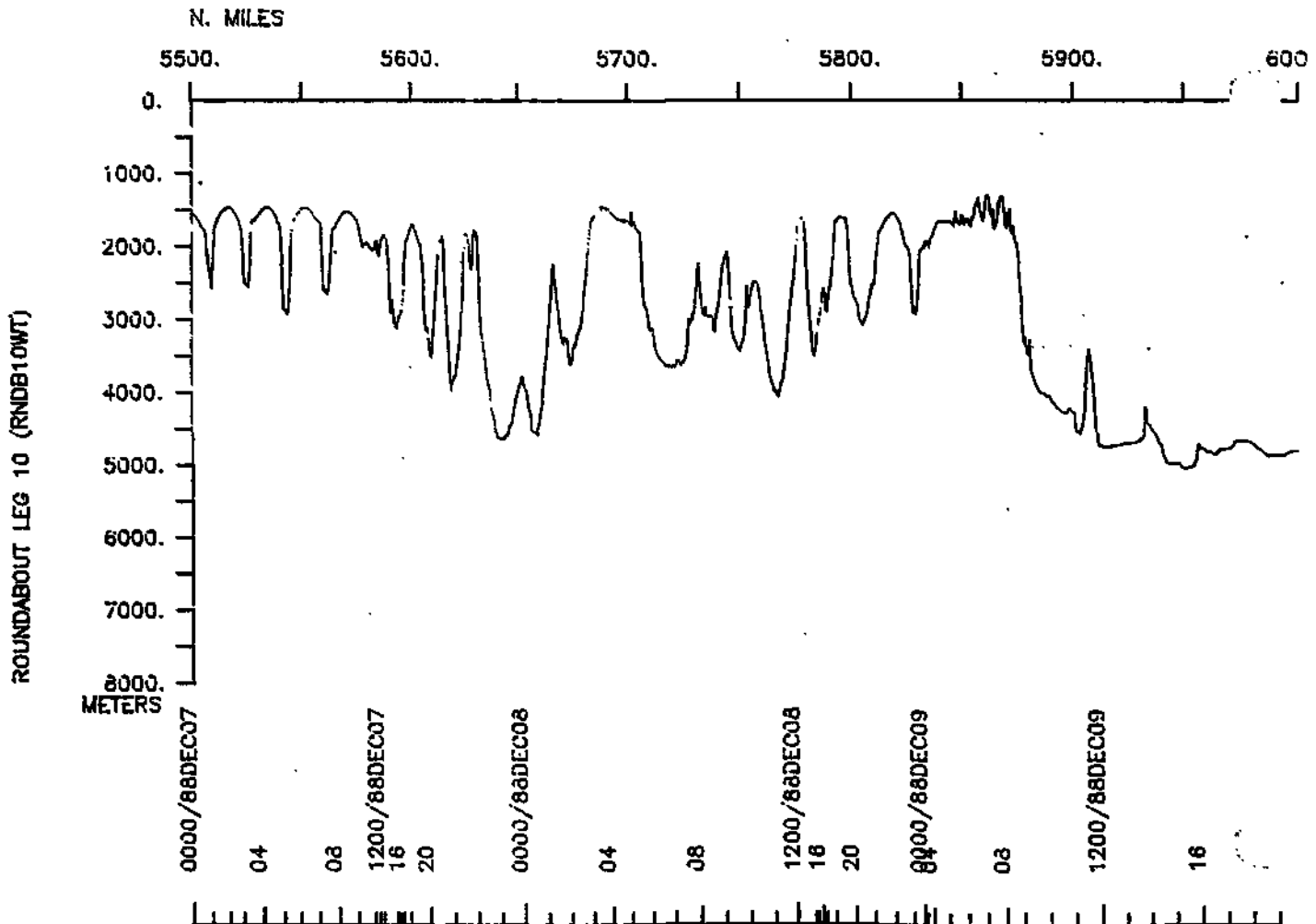
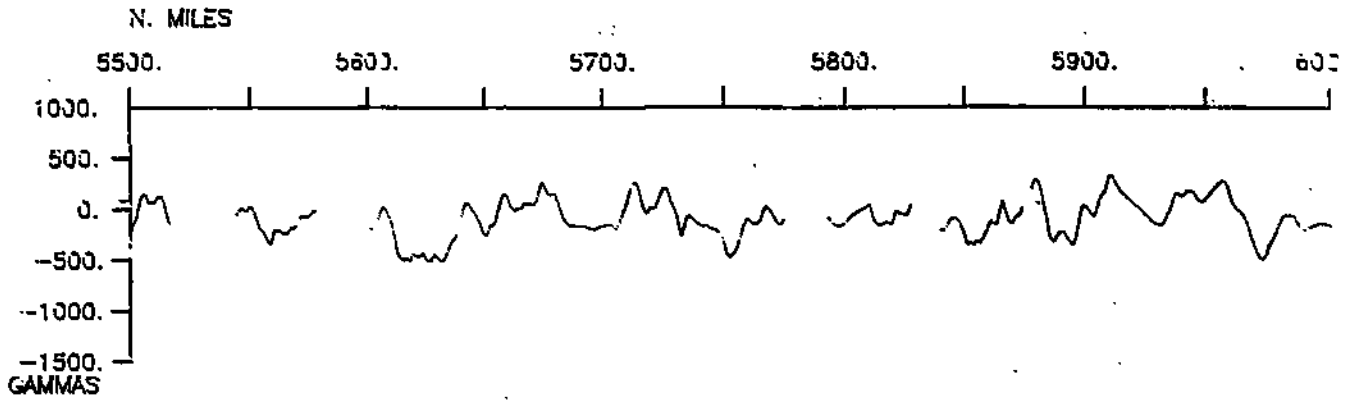
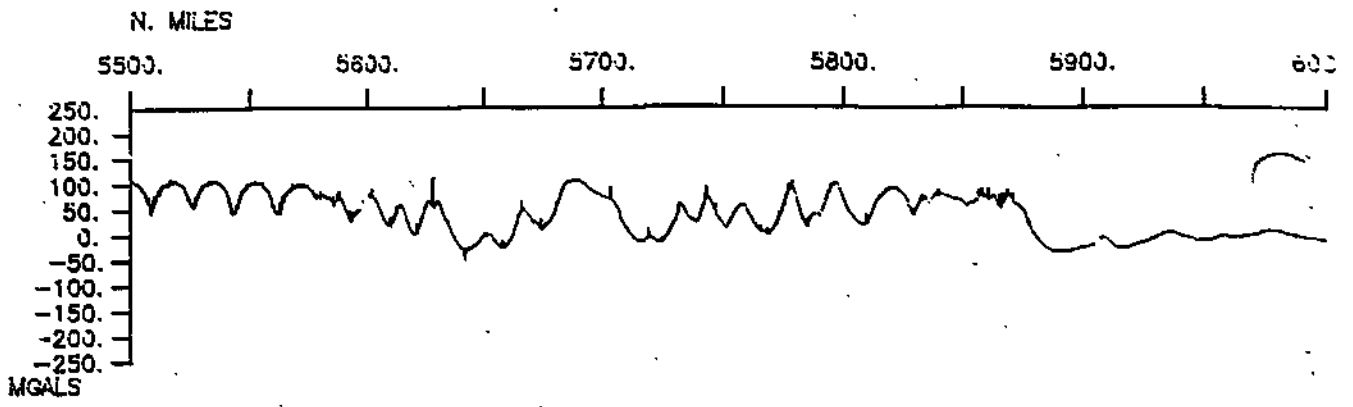


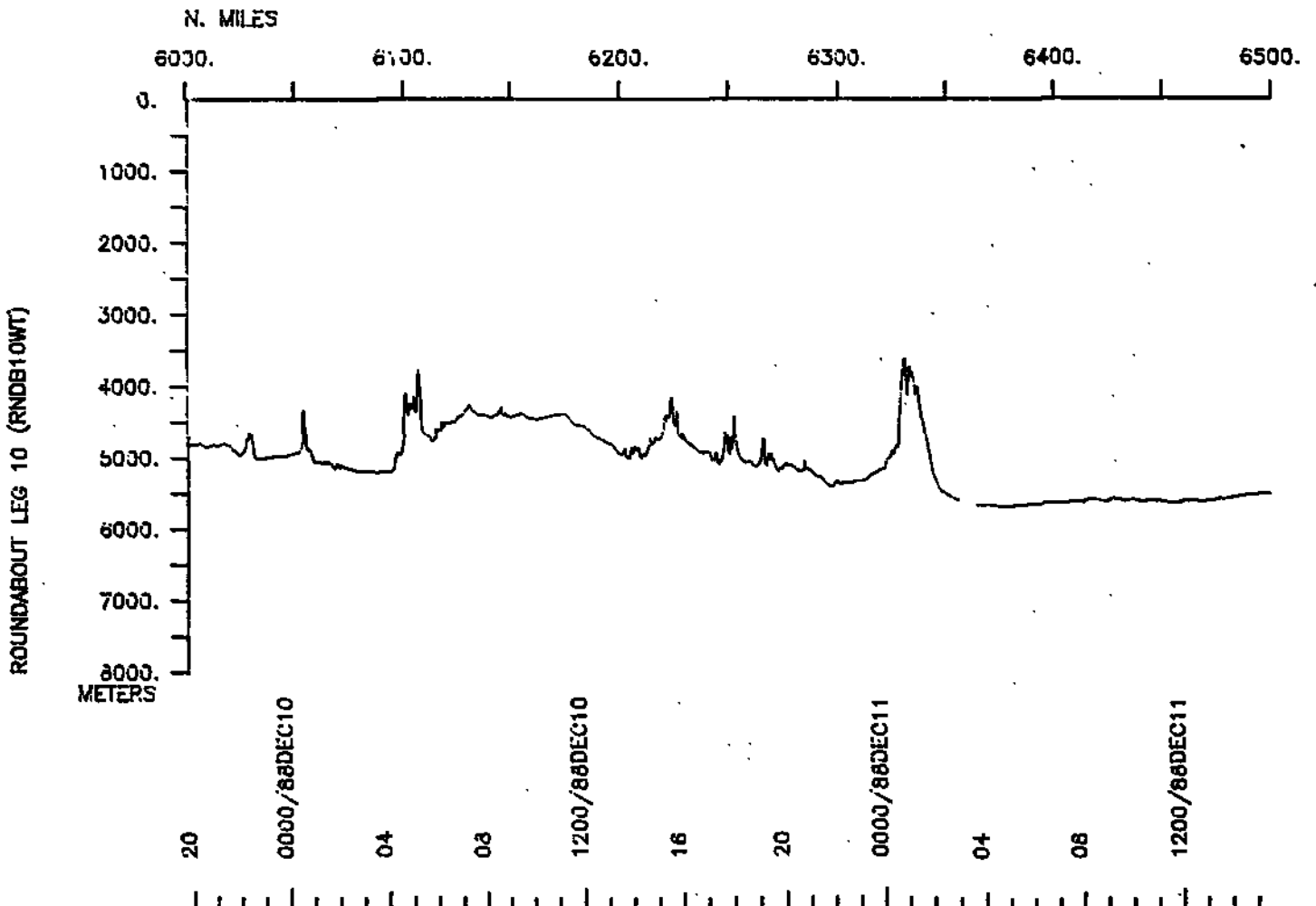
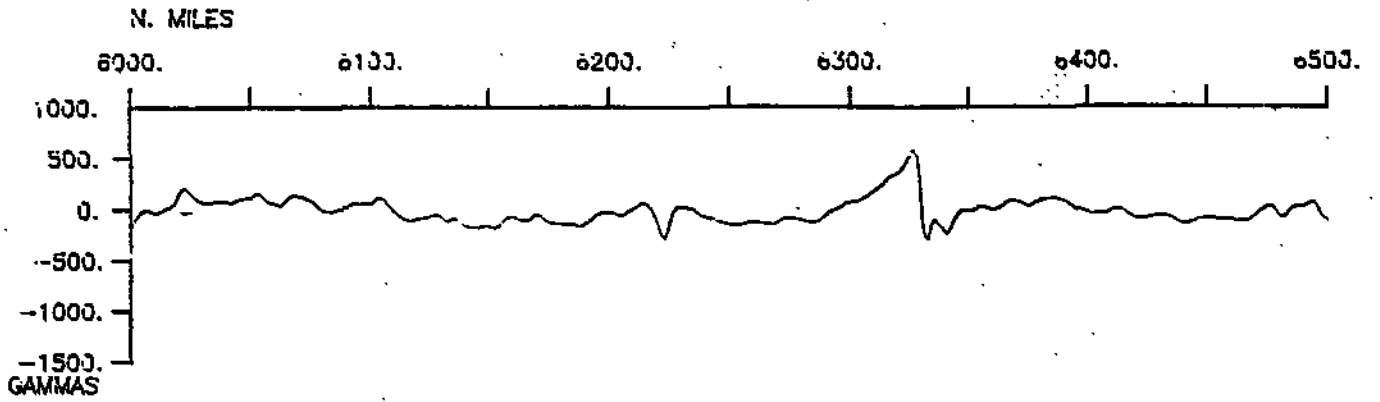
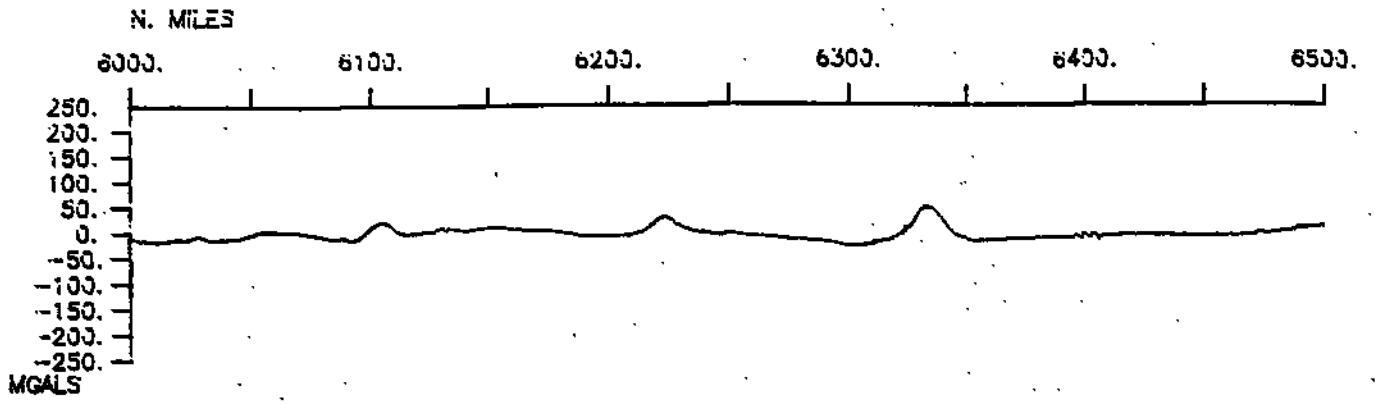


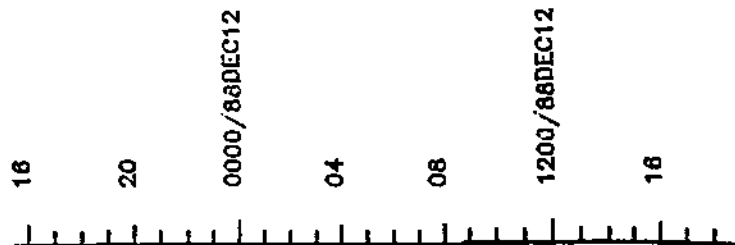
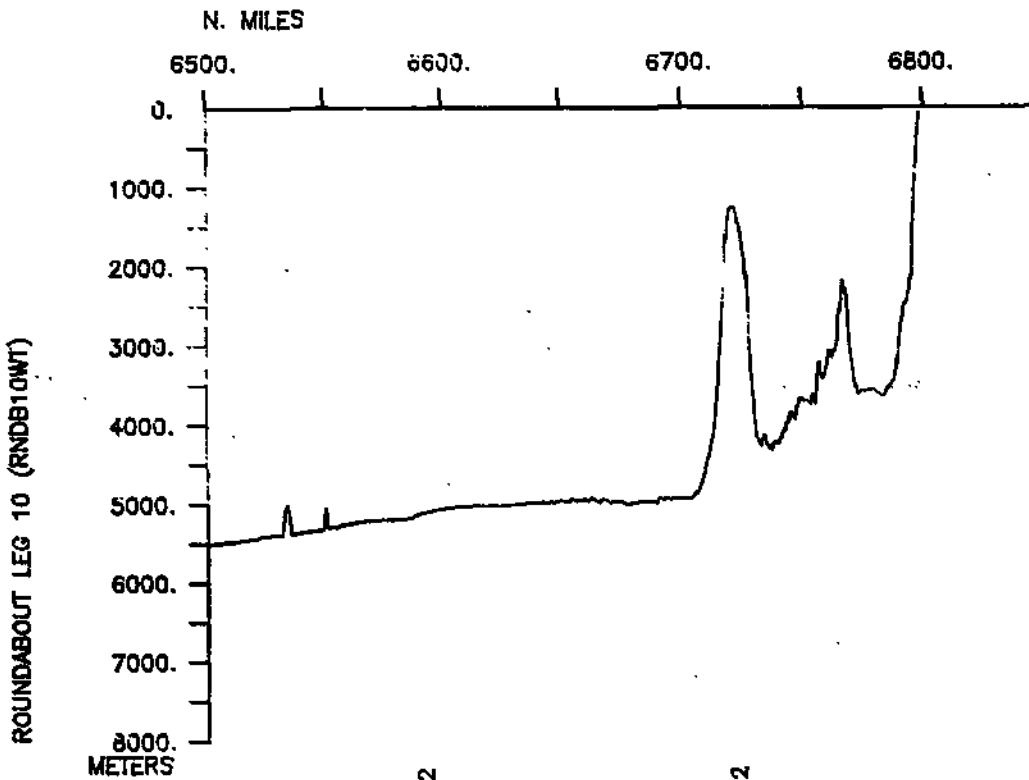
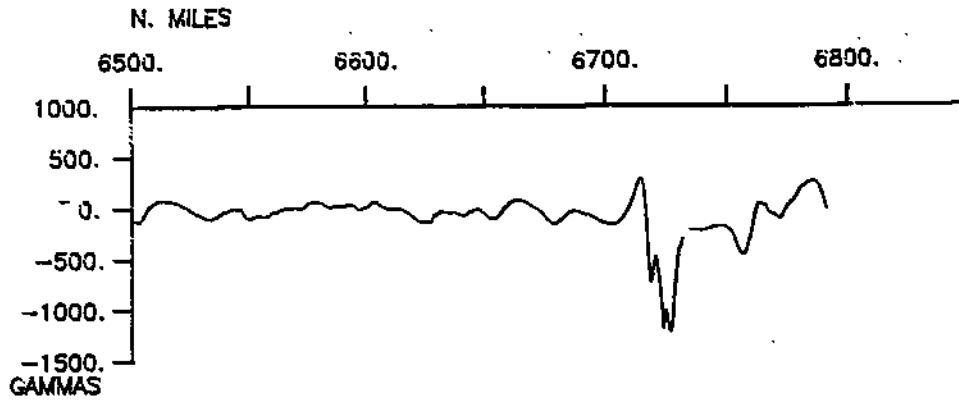
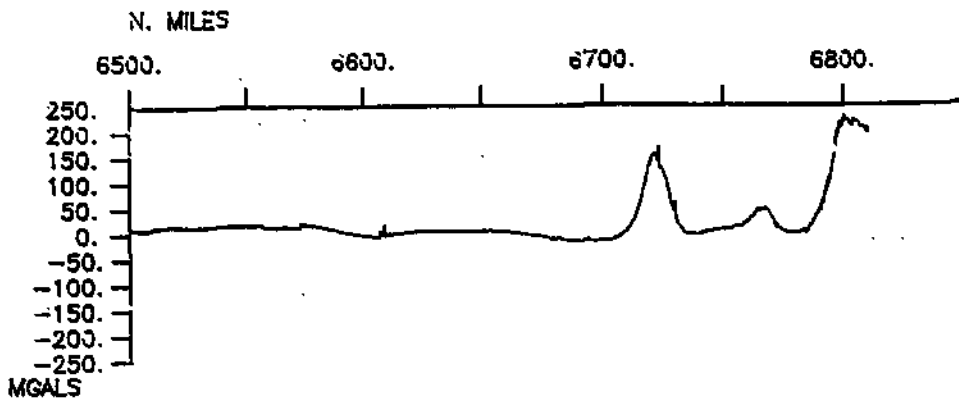












S.I.O. SAMPLE INDEX

(Issued January 1989)

ROUNABOUT EXPEDITION

Leg 10

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R/V T. Washington

Yokosuka, Japan (9 November 1988)
to
Majuro, Marshall Is. (12 December 1988)

Chief Scientist:

E. L. Wintreger (SIO)

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 further computer searches on these parameters. (Listings defining these codes are available from the Geological Data Center.)

GDC Cruise I.D.# 239

****PORTS****

0700 091188	LGPT B YOKOSUKA, JAPAN	35-17 N 139-40 E	frRNDB10WT
2000 121288	LPGT E MAJURO, MARSHALL IS.	7-06 N 171-15 E	frRNDB10WT

****PERSONNEL****

	NAME	***TITLE***	***AFFILIATION***	**CRID**
PECS GRD	WINTERER, J.	CHIEF SCIENTIST	SCRIPPS INSTITUTION	RNDB10WT
PEBO STS	ALBRIGHT, U.	SEABEAM OPERATOR	SCRIPPS INSTITUTION	RNDB10WT
PEAT STS	CRAMPTON, P.	SEISMIC ENGINEER	SCRIPPS INSTITUTION	RNDB10WT
PEST MIT	GOFF, J.A.	GRAD STUDENT	MASS. INST. OF TECH.	RNDB10WT
PEST SIX	GROTSCH, J.	GRAD STUDENT	U. OF ERIAGEN, GERMANY	RNDB10WT
PEST SIX	ITO, G.	STUDENT	COLORADO COLLEGE, CO.	RNDB10WT
PEST GRD	LYNCH, M.A.	GRAD STUDENT	SCRIPPS INSTITUTION	RNDB10WT
PESP MIT	MCNUTT, M.	SCIENTIST	MASS. INST. OF TECH.	RNDB10WT
PECT STS	MOORE, M.	COMPUTER TECH	SCRIPPS INSTITUTION	RNDB10WT
PEST UTK	NAKANISHI, M.	GRAD STUDENT	UNIV. OF TOKYO	RNDB10WT
PESP GRD	NATLAND, J.	SCIENTIST	SCRIPPS INSTITUTION	RNDB10WT
PERT STS	PILLARD, E.G.	RESIDENT TECH	SCRIPPS INSTITUTION	RNDB10WT
PESP TAM	SAGER, W.	ASSIST. PROFESSOR	TEXAS A&M UNIV.	RNDB10WT
PEBE STS	STUBER, D.	SEABEAM ENGINEER	SCRIPPS INSTITUTION	RNDB10WT
PEST GRD	VAN WASSBERGEN, R.	GRAD STUDENT	SCRIPPS INSTITUTION	RNDB10WT
PEST MIT	WOLFE, C.	GRAD STUDENT	MASS. INST. OF TECH.	RNDB10WT

****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. POSITIONS ARE IN TENTHS
 #OF MINUTES.

#GMT #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
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***UNDERWAY DATA CURATOR - S. M. SMITH EXT. 42752

LOG BOOKS

1142	091188			LBUW B	UNDERWAY WATCH LOG	GDC	34-452N	140-003E	sRNDB10WT
1830	121288			LBUW E	UNDERWAY WATCH LOG	GDC	7-108N	171-102E	sRNDB10WT

*** 12 KHZ SEABEAM MONITOR RECORDS ***

1311	091188			MBRM B	SEABEAM MONITOR R-01	GDC	34-447N	140-167E	sRNDB10WT
0308	161188			MBRM E	SEABEAM MONITOR R-01	GDC	31-306N	151-098E	sRNDB10WT
0317	161188			MBRM B	SEABEAM MONITOR R-02	GDC	31-307N	151-095E	sRNDB10WT
1350	231188			MBRM E	SEABEAM MONITOR R-02	GDC	19-307N	161-342E	sRNDB10WT
1400	231188			MBRM B	SEABEAM MONITOR R-03	GDC	19-321N	161-354E	sRNDB10WT
1837	021288			MBRM E	SEABEAM MONITOR R-03	GDC	20-100N	176-209E	sRNDB10WT
1846	021288			MBRM B	SEABEAM MONITOR R-04	GDC	20-095N	176-224E	sRNDB10WT
0338	071288			MBRM E	SEABEAM MONITOR R-04	GDC	18-338N	179-312W	sRNDB10WT
0655	071288			MBRM B	SEABEAM MONITOR R-05	GDC	18-337N	179-291W	sRNDB10WT
1927	111288			MBRM E	SEABEAM MONITOR R-05	GDC	9-509N	173-470E	sRNDB10WT
1934	111288			MBRM B	SEABEAM MONITOR R-06	GDC	9-499N	173-463E	sRNDB10WT
1815	121288			MBRM E	SEABEAM MONITOR R-06	GDC	7-127N	171-122E	sRNDB10WT

*** SEISMIC REFLECTION RECORDS - SLOW ***

2330	091188			SPRS B	4 SEC SEISMIC R-01	GDC	34-419N	142-387E	sRNDB10WT
0208	111188			SPRS E	4 SEC SEISMIC R-01	GDC	33-334N	144-087E	sRNDB10WT
0214	111188			SPRS B	4 SEC SEISMIC R-02	GDC	33-328N	144-085E	sRNDB10WT
0800	171188			SPRS E	4 SEC SEISMIC R-02	GDC	29-301N	153-364E	sRNDB10WT

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0806	171188		SPRS B 4	SEC SEISMIC R-03	GDC	29-301N	153-355E	sRNDB10WT
2132	221188		SPRS E 4	SEC SEISMIC R-03	GDC	20-329N	159-344E	sRNDB10WT
2134	221188		SPRS B 4	SEC SEISMIC R-04	GDC	20-326N	159-343E	sRNDB10WT
1218	281188		SPRS E 4	SEC SEISMIC R-04	GDC	21-547N	170-039E	sRNDB10WT
1218	281188		SPRS B 4	SEC SEISMIC R-05	GDC	21-547N	170-039E	sRNDB10WT
0906	041288		SPRS E 4	SEC SEISMIC R-05	GDC	18-586N	178-176E	sRNDB10WT
0909	041288		SPRS B 4	SEC SEISMIC R-06	GDC	18-585N	178-182E	sRNDB10WT
1151	101288		SPRS E 4	SEC SEISMIC R-06	GDC	14-438N	177-218E	sRNDB10WT
1154	101288		SPRS B 4	SEC SEISMIC R-07	GDC	14-434N	177-213E	sRNDB10WT
1750	121288		SPRS E 4	SEC SEISMIC R-07	GDC	7-140N	171-159E	sRNDB10WT

*** SEISMIC REFLECTION RECORDS - FAST ***

2334	091188		SPRF B 2	SEC SEISMIC R-01	GDC	34-419N	142-396E	sRNDB10WT
1028	111188		SPRF E 2	SEC SEISMIC R-01	GDC	32-361N	144-498E	sRNDB10WT
1034	111188		SPRF B 2	SEC SEISMIC R-02	GDC	32-365N	144-507E	sRNDB10WT
2044	171188		SPRF E 2	SEC SEISMIC R-02	GDC	28-231N	152-417E	sRNDB10WT
2050	171188		SPRF B 2	SEC SEISMIC R-03	GDC	28-222N	152-411E	sRNDB10WT
0200	231188		SPRF E 2	SEC SEISMIC R-03	GDC	19-539N	160-046E	sRNDB10WT
0205	231188		SPRF B 2	SEC SEISMIC R-04	GDC	19-533N	160-052E	sRNDB10WT
1208	281188		SPRF E 2	SEC SEISMIC R-04	GDC	21-544N	170-020E	sRNDB10WT
1212	281188		SPRF B 2	SEC SEISMIC R-05	GDC	21-545N	170-028E	sRNDB10WT
0901	041288		SPRF E 2	SEC SEISMIC R-05	GDC	18-588N	178-167E	sRNDB10WT
0905	041288		SPRF B 2	SEC SEISMIC R-06	GDC	18-587N	178-175E	sRNDB10WT
1156	101288		SPRF E 2	SEC SEISMIC R-06	GDC	14-432N	177-210E	sRNDB10WT
1159	101288		SPRF B 2	SEC SEISMIC R-07	GDC	14-427N	177-206E	sRNDB10WT
1750	121288		SPRF E 2	SEC SEISMIC R-07	GDC	7-140N	171-159E	sRNDB10WT

#GMT #TIME	DDMMYY DATE	LOC T TIME Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
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*** SEABEAM ARCHIVE SWATH BOOKS ***

1108	091188		MBSB B	SB ARC SWATH BK 01	GDC	34-484N	139-540E	sRNDB10WT
1016	131188		MBSB E	SB ARC SWATH BK 01	GDC	32-439N	148-211E	sRNDB10WT
1016	131188		MBSB B	SB ARC SWATH BK 02	GDC	32-439N	148-211E	sRNDB10WT
0310	181188		MBSB E	SB ARC SWATH BK 02	GDC	27-271N	151-568E	sRNDB10WT
0310	181188		MBSB B	SB ARC SWATH BK 03	GDC	27-271N	151-568E	sRNDB10WT
0347	221188		MBSB E	SB ARC SWATH BK 03	GDC	23-278N	159-137E	sRNDB10WT
0347	221188		MBSB B	SB ARC SWATH BK 04	GDC	23-278N	159-137E	sRNDB10WT
0021	261188		MBSB E	SB ARC SWATH BK 04	GDC	21-085N	162-510E	sRNDB10WT
0021	261188		MBSB B	SB ARC SWATH BK 05	GDC	21-085N	162-510E	sRNDB10WT
1956	291188		MBSB E	SB ARC SWATH BK 05	GDC	21-338N	172-558E	sRNDB10WT
1956	291188		MBSB B	SB ARC SWATH BK 06	GDC	21-338N	172-558E	sRNDB10WT
1114	041288		MBSB E	SB ARC SWATH BK 06	GDC	18-541N	178-405E	sRNDB10WT
1114	041288		MBSB B	SB ARC SWATH BK 07	GDC	18-541N	178-405E	sRNDB10WT
2302	081288		MBSB E	SB ARC SWATH BK 07	GDC	18-198N	179-247W	sRNDB10WT
2302	081288		MBSB B	SB ARC SWATH BK 08	GDC	18-198N	179-247W	sRNDB10WT
0901	121288		MBSB E	SB ARC SWATH BK 08	GDC	7-442N	172-351E	sRNDB10WT
0901	121288		MBSB B	SB ARC SWATH BK 09	GDC	7-442N	172-351E	sRNDB10WT
1830	121288		MBSB E	SB ARC SWATH BK 09	GDC	7-108N	171-102E	sRNDB10WT

*** MAGNETIC (EARTH TOTAL FIELD) RECORDS ***

1237	091188		MGRA B	MAGNETICS R-01	GDC	34-447N	140-095E	sRNDB10WT
0615	191188		MGRA E	MAGNETICS R-01	GDC	27-210N	151-539E	sRNDB10WT
0622	191188		MGRA B	MAGNETICS R-02	GDC	27-213N	151-548E	sRNDB10WT
1824	021288		MGRA E	MAGNETICS R-02	GDC	20-108N	176-188E	sRNDB10WT
1831	021288		MGRA B	MAGNETICS R-03	GDC	20-104N	176-199E	sRNDB10WT
1751	121288		MGRA E	MAGNETICS R-03	GDC	7-139N	171-157E	sRNDB10WT

#GMT #TIME #	DDMMYY DATE -----	LOC TIME Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
*** GRAVIMETER ***								
1300	091188		GVDG B	GRAVITY RECORD	GDC	34-448N	140-142E	sRNDB10WT
2000	121288		GVDG E	COMPUTER LOGGED	GDC	7-051N	171-220E	sRNDB10WT
*** SEABEAM TRANSITS AND SURVEYS ***								
1108	091188		MBTL B	SEABEAM TRANSIT	GRD	34-484N	139-540E	sRNDB10WT
0940	101188		MBTL E	LINE #1	GRD	34-030N	144-102E	sRNDB10WT
0940	101188		MBSV B	SEABEAM SURVEY	GRD	34-170N	144-230E	fRNDB10WT
2100	101188		MBSV E	#1 "SEIKO" SMT.	GRD	33-000N	144-050E	fRNDB10WT
2100	101188		MBTL B	SEABEAM TRANSIT	GRD	34-104N	144-074E	sRNDB10WT
1525	111188		MBTL E	LINE #2	GRD	32-512N	145-382E	sRNDB10WT
1525	111188		MBSV B	SEABEAM SURVEY	GRD	33-000N	145-450E	fRNDB10WT
2002	111188		MBSV E	#2 VOGT MAGNETICS	GRD	32-430N	145-350E	fRNDB10WT
2002	111188		MBTL B	SEABEAM TRANSIT	GRD	32-522N	145-416E	sRNDB10WT
0508	121188		MBTL E	LINE #3	GRD	33-174N	146-546E	sRNDB10WT
0508	121188		MBSV B	SEABEAM SURVEY	GRD	33-210N	147-000E	fRNDB10WT
0815	121188		MBSV E	#3 BOX SURVEY	GRD	33-120N	146-500E	fRNDB10WT
0815	121188		MBTL B	SEABEAM TRANSIT	GRD	33-189N	147-001E	sRNDB10WT
1820	121188		MBTL E	LINE #4	GRD	32-506N	148-211E	sRNDB10WT
1820	121188		MBSV B	SEABEAM SURVEY	GRD	32-520N	148-270E	fRNDB10WT
0958	131188		MBSV E	#4 WINTERER SMT.	GRD	32-420N	148-120E	fRNDB10WT
0958	131188		MBTL B	SEABEAM TRANSIT	GRD	32-440N	148-218E	sRNDB10WT
1626	131188		MBTL E	LINE #5	GRD	31-597N	148-187E	sRNDB10WT
1626	131188		MBSV B	SEABEAM SURVEY #5	GRD	32-040N	148-200E	fRNDB10WT
1836	141188		MBSV E	CHARLIE JOHNSON SMT.	GRD	31-520N	148-080E	fRNDB10WT

#GMT #TIME #	DDMMYY DATE ---	LOC TIME Z	SAMP CODE	SAMPLE IDENTIFIER	DISP. CODE	LAT.	LONG.	CRUISE LEG-SHIP
1836	141188		MBTL B	SEABEAM TRANSIT	GRD	31-598N	148-218E	sRNDB10WT
2100	141188		MBTL E	LINE #6	GRD	31-452N	148-474E	sRNDB10WT
2100	141188		MBSV B	SEABEAM SURVEY	GRD	31-450N	149-100E	fRNDB10WT
0029	151188		MBSV E	#6 STOUT SMT.	GRD	31-320N	148-450E	fRNDB10WT
0029	151188		MBTL B	SEABEAM TRANSIT	GRD	31-459N	149-062E	sRNDB10WT
0228	151188		MBTL E	LINE #7	GRD	31-593N	149-151E	sRNDB10WT
0228	151188		MBSV B	SEABEAM SURVEY #7	GRD	32-040N	149-180E	fRNDB10WT
0415	151188		MBSV E	T. WASHINGTON SMT.	GRD	31-580N	149-120E	fRNDB10WT
0415	151188		MBTL B	SEABEAM TRANSIT	GRD	31-598N	149-142E	sRNDB10WT
1635	151188		MBTL E	LINE #8	GRD	31-344N	151-055E	sRNDB10WT
1635	151188		MBSV B	SEABEAM SURVEY	GRD	31-170N	151-140E	fRNDB10WT
1100	161188		MBSV E	#8 ISAKOV SMT.	GRD	31-290N	151 050E	fRNDB10WT
1100	161188		MBTL B	SEABEAM TRANSIT	GRD	31-355N	151-043E	sRNDB10WT
0330	171188		MBTL E	LINE #9	GRD	29-337N	153-199E	sRNDB10WT
0330	171188		MBSV B	SEABEAM GRDVEY	GRD	29-330N	153-370E	fRNDB10WT
1352	171188		MBSV E	#9 MAKAROV SMT.	GRD	29-230N	153-210E	fRNDB10WT
1352	171188		MBTL B	SEABEAM TRANSIT	GRD	29-238N	153-300E	sRNDB10WT
0256	181188		MBTL E	LINE #10	GRD	27-292N	151-583E	sRNDB10WT
0256	181188		MBSV B	SEABEAM SURVEY	GRD	27-290N	152-020E	fRNDB10WT
1458	191188		MBSV E	#10 "MIT" SMT.	GRD	27-040N	151-390E	fRNDB10WT
1458	191188		MBTL B	SEABEAM TRANSIT	GRD	27-060N	151-436E	sRNDB10WT
0930	211188		MBTL E	LINE #11	GRD	24-184N	159-120E	sRNDB10WT
0930	211188		MBSV B	SEABEAM SURVEY	GRD	24-230N	159-220E	fRNDB10WT
1337	211188		MBSV E	#11	GRD	24-100N	159-100E	fRNDB10WT

#GMT #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1337	211188			MBTL B	SEABEAM TRANSIT	GRD	24-155N	159-194E	sRNDB10WT
1532	211188			MBTL E	LINE #12	GRD	23-563N	159-142E	sRNDB10WT
1532	211188			MBSV B	SEABEAM SURVEY	GRD	24-000N	159-290E	fRNDB10WT
0300	221188			MBSV E	#12 SCRIPPS SMT.	GRD	23-360N	159-100E	fRNDB10WT
0300	221188			MBTL B	SEABEAM TRANSIT	GRD	23-362N	159-128E	sRNDB10WT
0000	241188			MBTL E	LINE #13	GRD	21-045N	162-403E	sRNDB10WT
0000	241188			MBSV B	SEABEAM SURVEY	GRD	21-260N	162-570E	fRNDB10WT
0330	251188			MBSV E	#13 VIBELIUS SMT.	GRD	21-080N	162-400E	fRNDB10WT
0330	251188			MBTL B	SEABEAM TRANSIT	GRD	21-009N	162-494E	sRNDB10WT
0615	251188			MBTL E	LINE #14	GRD	20-508N	163-181E	sRNDB10WT
0615	251188			MBSV B	SEABEAM SURVEY	GRD	21-300N	163-310E	fRNDB10WT
1734	251188			MBSV E	#14 "WILDE" SMT.	GRD	21-490N	163-080E	fRNDB10WT
1734	251188			MBTL B	SEABEAM TRANSIT	GRD	20-596N	163-109E	sRNDB10WT
1930	251188			MBTL E	LINE #15	GRD	21-084N	162-515E	sRNDB10WT
1930	251188			MBSV B	SEABEAM SURVEY	GRD	21-240N	163-000E	fRNDB10WT
0630	261188			MBSV E	#15 VIBELIUS SMT.	GRD	21-040N	162-360E	fRNDB10WT
0630	261188			MBTL B	SEABEAM TRANSIT	GRD	21-106N	162-593E	sRNDB10WT
0220	271188			MBTL E	LINE #16	GRD	21-105N	166-248E	sRNDB10WT
0220	271188			MBSV B	SEABEAM SURVEY	GRD	21-130N	166-370E	fRNDB10WT
1500	271188			MBSV E	#16 WHOI SMT.	GRD	20-590N	166-230E	fRNDB10WT
1500	271188			MBTL B	SEABEAM TRANSIT	GRD	21-068N	166-314E	sRNDB10WT
1946	281188			MBTL E	LINE #17	GRD	22-090N	171-312E	sRNDB10WT
1946	281188			MBSV B	SEABEAM SURVEY	GRD	22-100N	171-450E	fRNDB10WT
1230	291188			MBSV E	#17 DARWIN SMT.	GRD	21-570N	171-310E	fRNDB10WT
1230	291188			MBTL B	SEABEAM TRANSIT	GRD	22-056N	171-431E	sRNDB10WT
0031	301188			MBTL E	LINE #18	GRD	21-157N	173-436E	sRNDB10WT

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0031	301288			MBSV B	SEABEAM SURVEY	GRD	21-250N	174-000E	FRNDB10WT
0930	011288			MBSV E	#18 "HEEZEN" SMT.	GRD	20-530N	173-300E	FRNDB10WT
0930	011288			MBTL B	SEABEAM TRANSIT	GRD	21-104N	173-561E	sRNDB10WT
1244	011288			MBTL E	LINE #19	GRD	21-108N	174-276E	sRNDB10WT
1130	011288			MBSV B	SEABEAM SURVEY	GRD	21-240N	174-410E	FRNDB10WT
0253	021288			MBSV E	#19 #463 SMT.	GRD	21-070N	174-160E	FRNDB10WT
0253	021288			MBTL B	SEABEAM TRANSIT	GRD	21-093N	174-257E	sRNDB10WT
1934	021288			MBTL E	LINE #20	GRD	20-066N	176-303E	sRNDB10WT
1934	021288			MBSV B	SEABEAM SURVEY	GRD	20-090N	176-390E	FRNDB10WT
2230	021288			MBSV E	#20 "CAPRINA" SMT.	GRD	19-580N	176-240E	FRNDB10WT
2230	021288			MBTL B	SEABEAM TRANSIT	GRD	20-027N	176-361E	sRNDB10WT
0324	031288			MBTL E	LINE #21	GRD	19-160N	176-397E	sRNDB10WT
1324	031288			MBSV B	SEABEAM SURVEY #21	GRD	19-280N	176-500E	FRNDB10WT
0022	041288			MBSV E	"JACQUELINE" SMT.	GRD	19-070N	176-300E	FRNDB10WT
0022	041288			MBTL B	SEABEAM TRANSIT	GRD	19-205N	176-438E	sRNDB10WT
1900	041288			MBTL E	LINE #22	GRD	18-395N	179-551W	sRNDB10WT
1900	041288			MBSV B	SEABEAM SURVEY #22	GRD	18-500N	178-550W	FRNDB10WT
0845	091288			MBSV E	"ALLISON " SMT.	GRD	18-090N	179-550W	FRNDB10WT

*** THERMOGRAPH RECORDINGS ***

0700	091188			TGRC B	THERMOGRAPHS 1-10	GDC	35-155N	139-462E	sRNDB10WT
2000	121288			TGRC E	THERMOGRAPHS 1-10	GDC	7-051N	171-220E	sRNDB10WT

*** EXPENDABLE BATHY THERMOGRAPH RECORDS ***

2219	091188			BTXP B	XBTS 1-9	GDC	34-421N	142-262E	sRNDB10WT
1815	121288			BTXP E	XBTS 1-9	GDC	7-127N	171-122E	sRNDB10WT

#GMT #TIME	DDMMYY DATE	LOC T TIME Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
*** ROCK DREDGES *** <i>No dredge # 14-48 (49 on page #)</i>								
0513	131188		DRRO B	DRDGE 49	2344M-2996M	GRD 32-500N	148-248E	sRNDB10WT
0626	131188		DRRO E	DRDGE 49	2344M-2996M	GRD 32-506N	148-240E	sRNDB10WT
0241	141188		DRRO B	DRDGE 50	1780M-1646M	GRD 31-593N	148-174E	sRNDB10WT
0440	141188		DRRO E	DRDGE 50	1780M-1646M	GRD 31-596N	148-156E	sRNDB10WT
0749	141188		DRRO B	DRDGE 51	2087M-1760M	GRD 31-584N	148-199E	sRNDB10WT
0905	141188		DRRO E	DRDGE 51	2087M-1760M	GRD 31-573N	148-187E	sRNDB10WT
1310	141188		DRRO B	DRDGE 52	2375M-1881M	GRD 31-533N	148-141E	sRNDB10WT
1445	141188		DRRO E	DRDGE 52	2375M-1881M	GRD 31-535N	148-135E	sRNDB10WT
0111	161188		DRRO B	DRDGE 53	2375M-1655M	GRD 31-300N	151-121E	sRNDB10WT
0256	161188		DRRO E	DRDGE 53	2375M-1655M	GRD 31-306N	151-101E	sRNDB10WT
0786	161188		DRRO B	DRDGE 54	3747M-2366M	GRD 31-339N	151-038E	sRNDB10WT
0923	161188		DRRO E	DRDGE 54	3747M-2366M	GRD 31-341N	151-047E	sRNDB10WT
1532	181188		DRRO B	DRDGE 55	3198M-2577M	GRD 27-256N	152-024E	sRNDB10WT
1709	181188		DRRO E	DRDGE 55	3198M-2577M	GRD 27-244N	152-012E	sRNDB10WT
0002	191188		DRRO B	DRDGE 56	1382M-1368M	GRD 27-136N	151-443E	sRNDB10WT
1709 0126	191188	<i>had a ser 92</i>	DRRO E	DRDGE 56	1382M-1368M	GRD 27-244N 27-108N	152-012E 151-450E	sRNDB10WT
2301	211188		DRRO B	DRDGE 57	1420M-1339M	GRD 23-432N	159-154E	sRNDB10WT
2346	211188		DRRO E	DRDGE 57	1420M-1339M	GRD 23-435N	159-157E	sRNDB10WT
1719	241188		DRRO B	DRDGE 58	1975M-1879M	GRD 21-162N	162-430E	sRNDB10WT
1838	241188		DRRO E	DRDGE 58	1975M-1879M	GRD 21-170N	162-438E	sRNDB10WT
2246	241188		DRRO B	DRDGE 59	2531M-2044M	GRD 21-134N	162-426E	sRNDB10WT
0025	251188		DRRO E	DRDGE 59	2531M-2044M	GRD 21-139N	162-436E	sRNDB10WT
0114	261188		DRRO B	DRDGE 60	3390M-2241M	GRD 21-090N	162-503E	sRNDB10WT
0340	261188		DRRO E	DRDGE 60	3390M-2241M	GRD 21-102N	162-507E	sRNDB10WT

#GMT #TIME #	DDMMYY DATE -----	LOC T TIME Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1236	271188		DRRO B	DRDGE 61	1742M-1476M	GRD 21-068N	166-278E	sRNDB10WT
1344	271188		DRRO E	DRDGE 61	1742M-1476M	GRD 21-068N	166-282E	sRNDB10WT
0501	291188		DRRO B	DRDGE 62	2639M-2875M	GRD 21-592N	171-392E	sRNDB10WT
0833	291188		DRRO E	DRDGE 62	2639M-2875M	GRD 21-594N	171-385E	sRNDB10WT
1104	301188		DRRO B	DRDGE 63	2304M-1265M	GRD 21-116N	173-406E	sRNDB10WT
1312	301188		DRRO E	DRDGE 63	2304M-1265M	GRD 21-104N	173-423E	sRNDB10WT
1650	301188		DRRO B	DRDGE 64	2516M-1897M	GRD 21-066N	173-403E	sRNDB10WT
1958	301188		DRRO E	DRDGE 64	2516M-1897M	GRD 21-069N	173-426E	sRNDB10WT
0030	⁰² 01 1288		DRRO B	DRDGE 65	1337M-1342M	GRD 21-075N ^{21-081N} 173-455E ^{174-231E}		sRNDB10WT
0144	⁰² 01 1288		DRRO E	DRDGE 65	1337M-1342M	GRD 21-183N ^{21-086N} 173-485E ^{174-242E}		sRNDB10WT
1156	031288		DRRO B	DRDGE 66	2999M-2730M	GRD 19-114N	176-415E	sRNDB10WT
1305	031288		DRRO E	DRDGE 66	2999M-2730M	GRD 19-119N	176-425E	sRNDB10WT
J927	051288		DRRO B	DRDGE 67	1635M-1924M	GRD 18-369N	179-336W	sRNDB10WT
1115	051288		DRRO E	DRDGE 67	1635M-1924M	GRD 18-378N	179-329W	sRNDB10WT
1012	061288		DRRO B	DRDGE 68	1748M-1436M	GRD 18-274N	179-166W	sRNDB10WT
1203	061288		DRRO E	DRDGE 68	1748M-1436M	GRD 18-286N	179-164W	sRNDB10WT
1628	061288		DRRO B	DRDGE 69	2529M-2206M	GRD 18-199N	179-276W	sRNDB10WT
1758	061288		DRRO E	DRDGE 69	2529M-2206M	GRD 18-197N	179-283W	sRNDB10WT
1110	071288		DRRO B	DRDGE 70	2080M-1960M	GRD 18-217N	179-254W	sRNDB10WT
1202	071288		DRRO X	DRDGE 70	2080M-1960M	GRD 18-222N	179-253W	sRNDB10WT
1529	071288		DRRO B	DRDGE 71	2924M-2610M	GRD 18-203N	179-250W	sRNDB10WT
1729	071288		DRRO E	DRDGE 71	2924M-2610M	GRD 18-212N	179-246W	sRNDB10WT
1435	081288		DRRO B	DRDGE 72	3337M-2567M	GRD 18-405N	179-435W	sRNDB10WT
1711	081288		DRRO E	DRDGE 72	3337M-2567M	GRD 18-407N	179-416W	sRNDB10WT
0026	091288		DRRO B	DRDGE 73	2000M-1937M	GRD 18-223N	179-276W	sRNDB10WT
0236	091288		DRRO E	DRDGE 73	2000M-1937M	GRD 18-219N	179-264W	sRNDB10WT

END SAMPLE INDEX

#GMT	DDMMYY	LOC	T	SAMP	SAMPLE	DISP			CRUISE
#TIME	DATE	TIME	Z	CODE	IDENTIFIER	CODE	LAT.	LONG.	LEG-SHIP

***ECHOSOUNDER RECORDS ***

1247	091188			DPR3	B 3.5KHZ & DREDGE R-01	GDC	34-448N	140-114E	sRNDB10WT
0400	161188			DPR3	E 3.5KHZ & DREDGE R-01	GDC	31-315N	151-084E	sRNDB10WT
0630	161188			DPR3	B 3.5KHZ & DREDGE R-02	GDC	31-342N	151-026E	sRNDB10WT
0752	241188			DPR3	E 3.5KHZ & DREDGE R-02	GDC	21-111N	162-452E	sRNDB10WT
0757	241188			DPR3	B 3.5KHZ & DREDGE R-03	GDC	21-103N	162-452E	sRNDB10WT
0605	271188			DPR3	E 3.5KHZ & DREDGE R-03	GDC	21-058N	166-288E	sRNDB10WT
1204	271188			DPR3	B 3.5KHZ & DREDGE R-04	GDC	21-067N	166-273E	sRNDB10WT
1958	301188			DPR3	E 3.5KHZ & DREDGE R-04	GDC	21-069N	173-426E	sRNDB10WT
0031	011288			DPR3	B 3.5KHZ & DREDGE R-05	GDC	21-157N	173-436E	sRNDB10WT
1306	051288			DPR3	E 3.5KHZ & DREDGE R-05	GDC	18-379N	179-334W	sRNDB10WT
0114	051288			DPR3	B 3.5KHZ & DREDGE R-06	GDC	18-254N	179-190W	sRNDB10WT
0338	071288			DPR3	E 3.5KHZ & DREDGE R-06	GDC	18-338N	179-312W	sRNDB10WT
0338	071288			DPR3	B 3.5KHZ & DREDGE R-07	GDC	18-338N	179-312W	sRNDB10WT
1555	081288			DPR3	E 3.5KHZ & DREDGE R-07	GDC	18-409N	179-419W	sRNDB10WT
1600	081288			DPR3	B 3.5KHZ & DREDGE R-08	GDC	18-409N	179-417W	sRNDB10WT
1159	121288			DPR3	E 3.5KHZ & DREDGE R-08	GDC	7-184N	172-183E	sRNDB10WT

*** END SAMPLE INDEX