

INFORMAL REPORT AND INDEX OF
NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA
(Issued July 1989)

ROUNABOUT EXPEDITION

LEG 18

R/V Washington

Honolulu, Hawaii (3 May 1989)
to
San Diego, California (30 May 1989)

Chief Scientist:

Peter Lonsdale - Scripps Institution of Oceanography

Resident Marine Technician - Seth Mogk

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

ONR Navy 0010, 0038, and 0005

University of California General Funds

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:

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- 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.

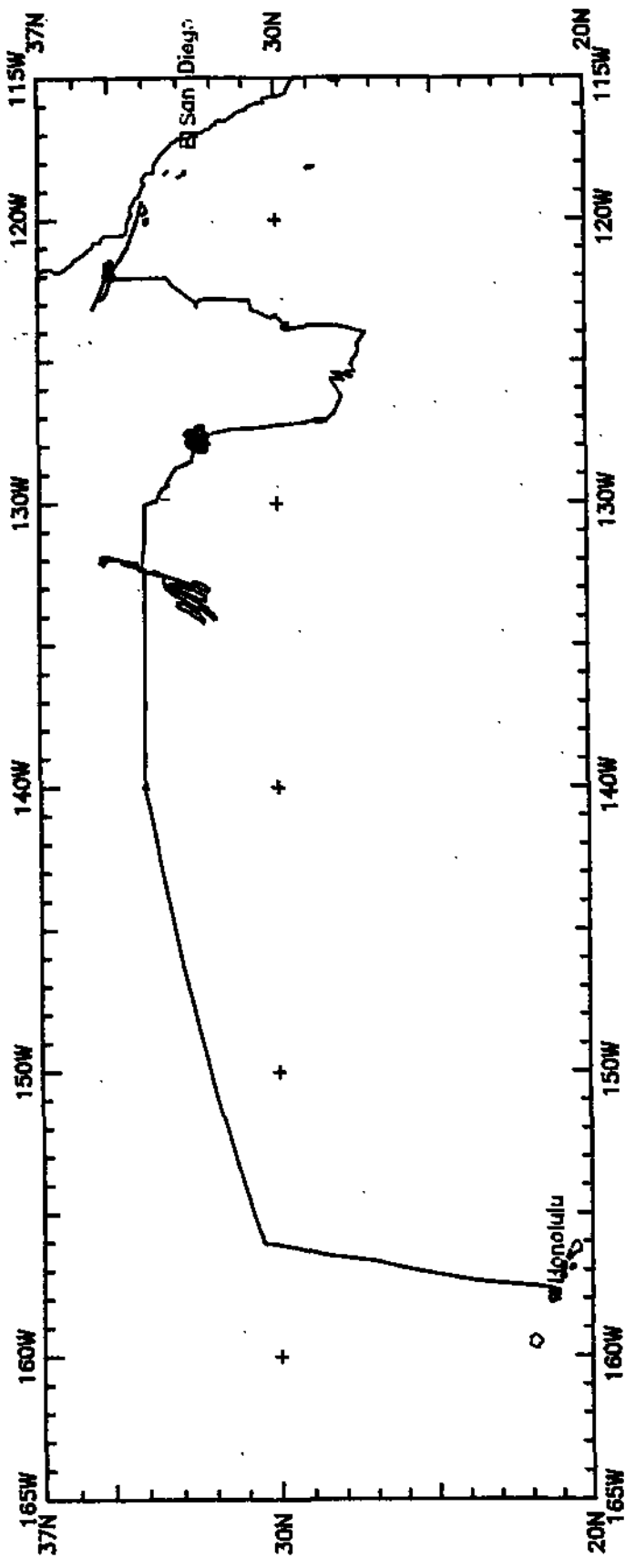
1. Navigation listing with times and positions of course and speed changes, fixes and drift velocity.
2. Depth compilation plots - compilation plots at the traditional scale of 4in/degree longitude (1:1,000,000) are no longer produced for Sea Beam cruises. Custom plots may be requested of vertical beam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



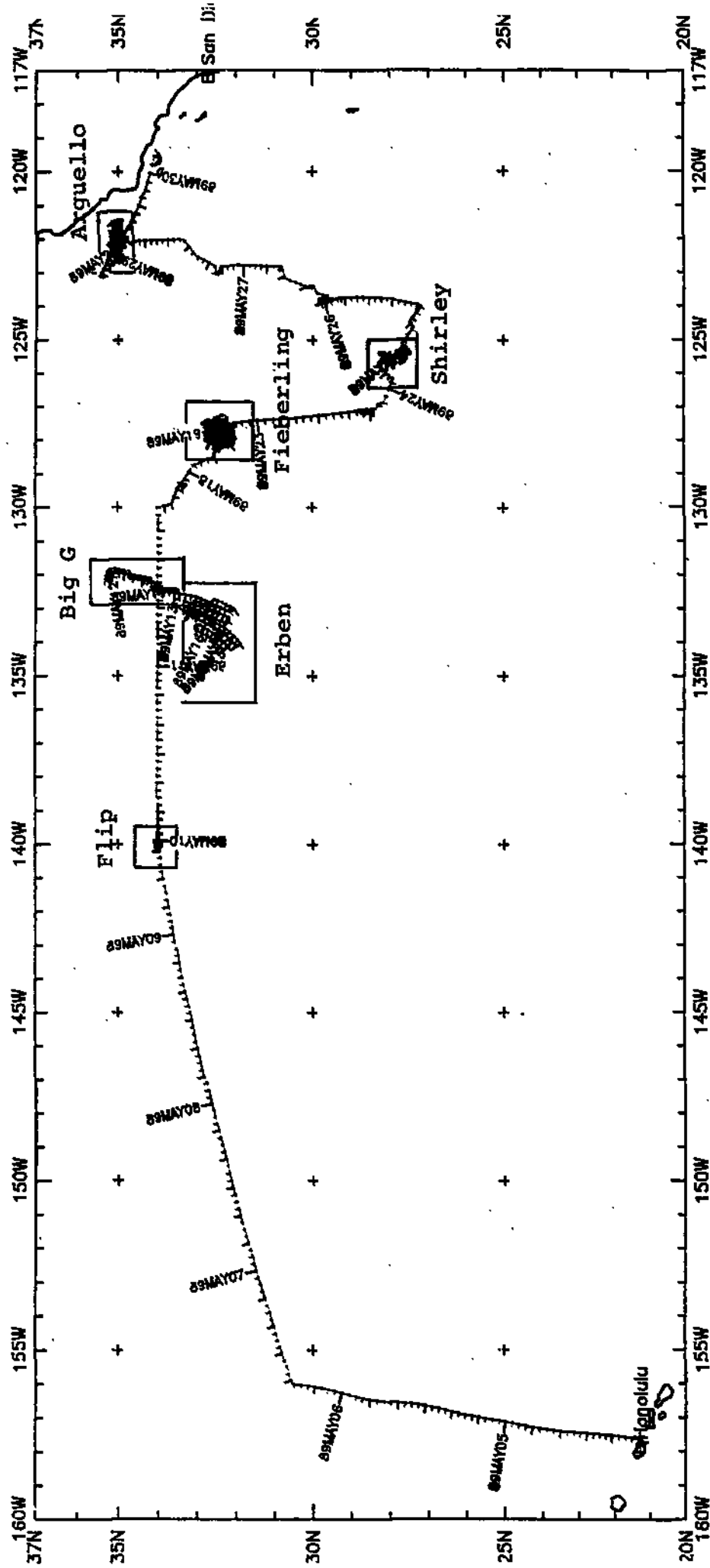
ROUNDABOUT EXPEDITION LEG 18

CHIEF SCIENTIST:

Peter Lonsdale - Scripps Institution of Oceanography
 PORTS: Honolulu, Hawaii - San Diego, Calif.
 DATES: 3 - 30 May 1989
 SHIP: R/V T. Washington

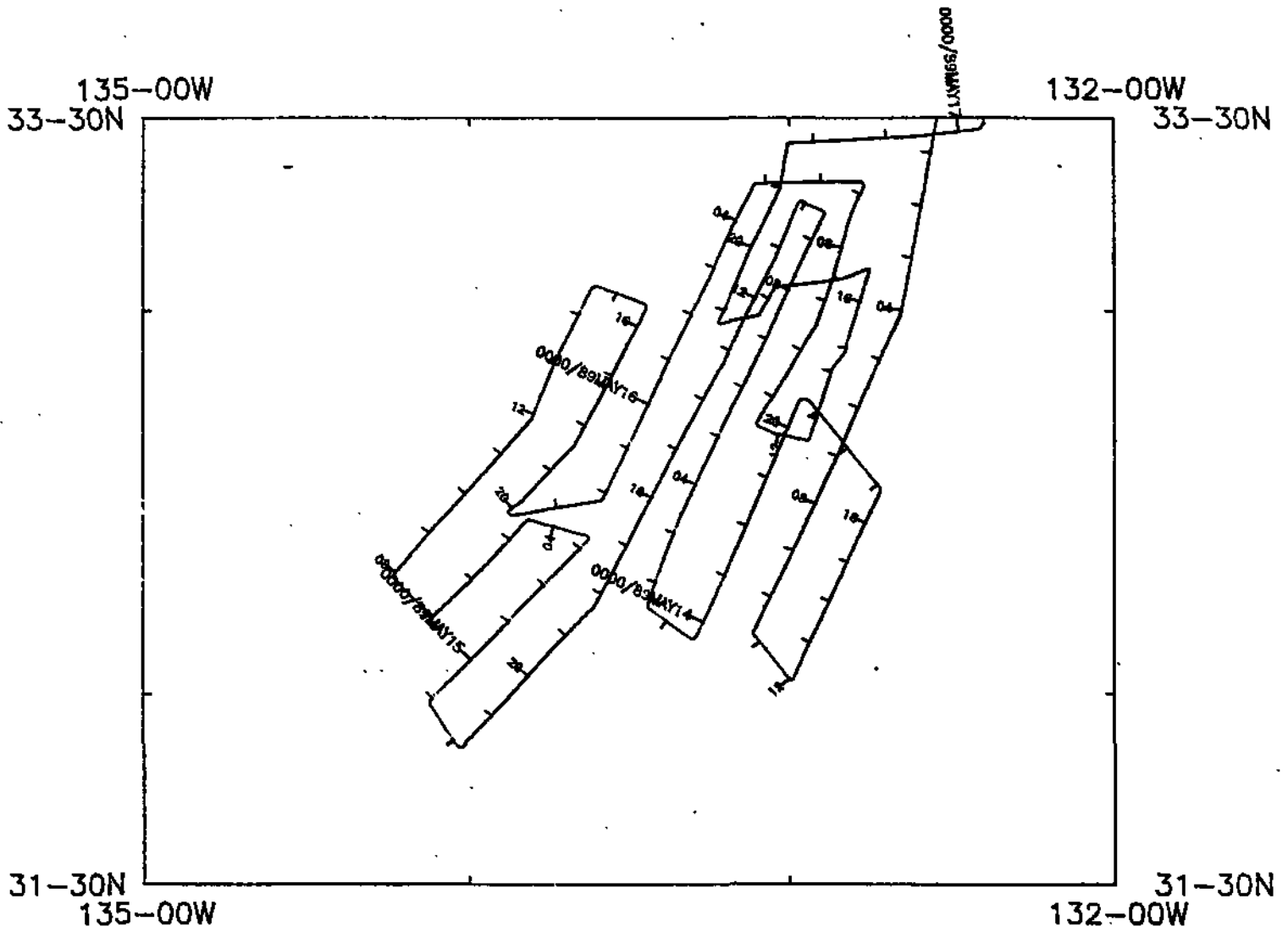
TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

- 1) Cruise - 6158 miles
- 2) Bathymetry - 5915 miles
- 3) Magnetics - 5040 miles
- 4) Seismic Reflection - 2305 miles
- 5) Gravity - not processed as of July 1989
- 6) Sea Beam - 5915 miles

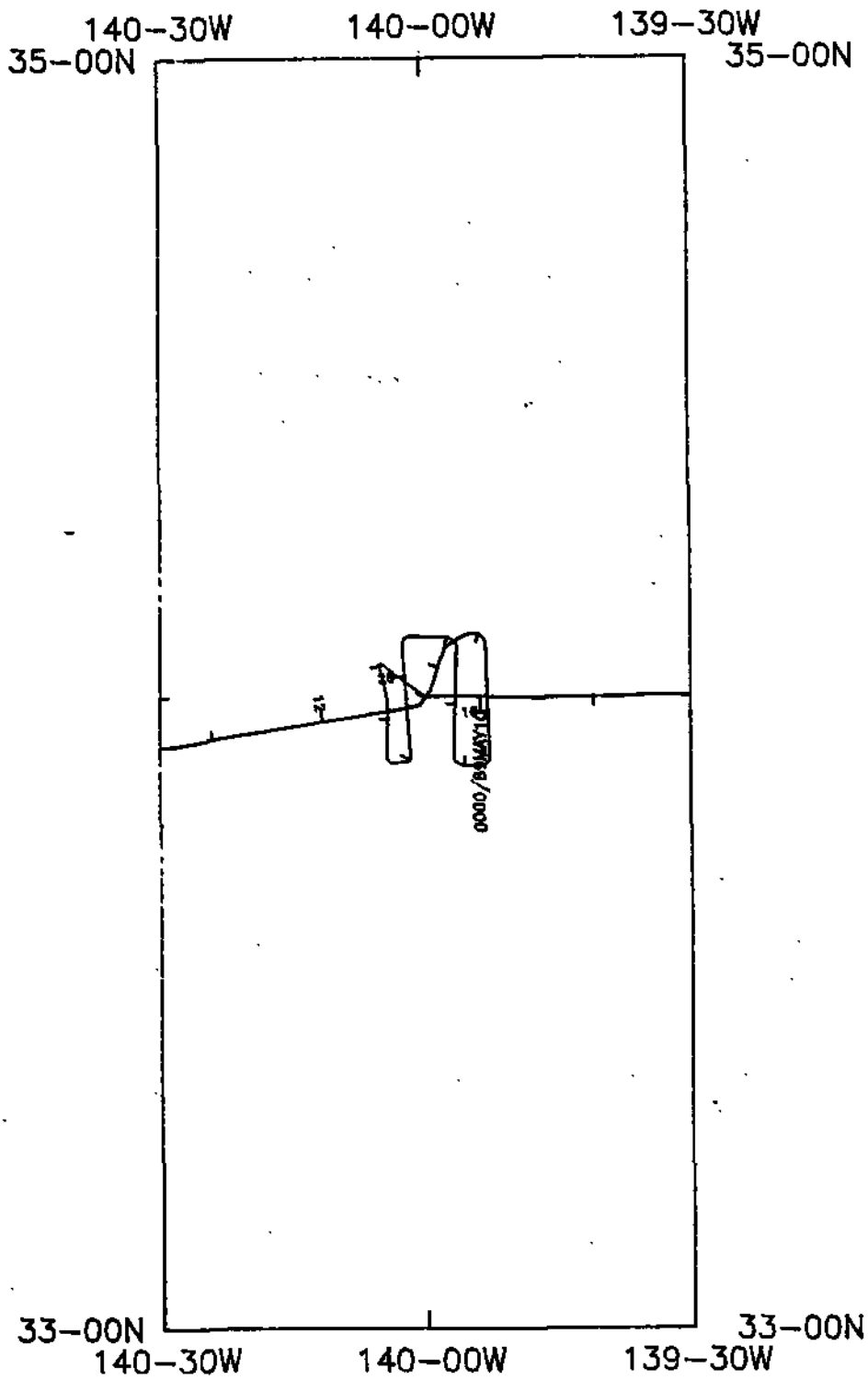


ROUNDABOUT LEG 18 (RNDB18WT)

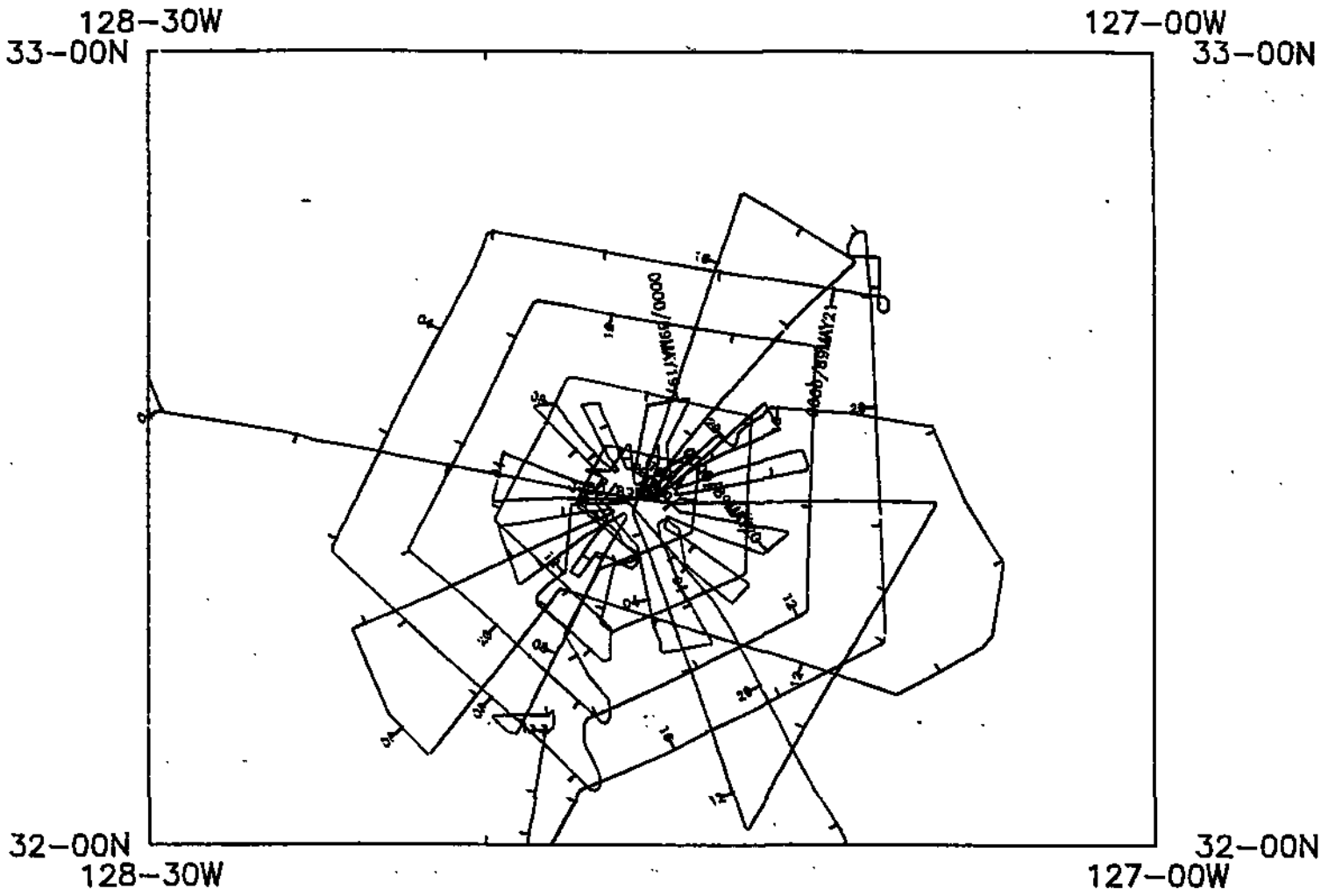
R/V T. Washington



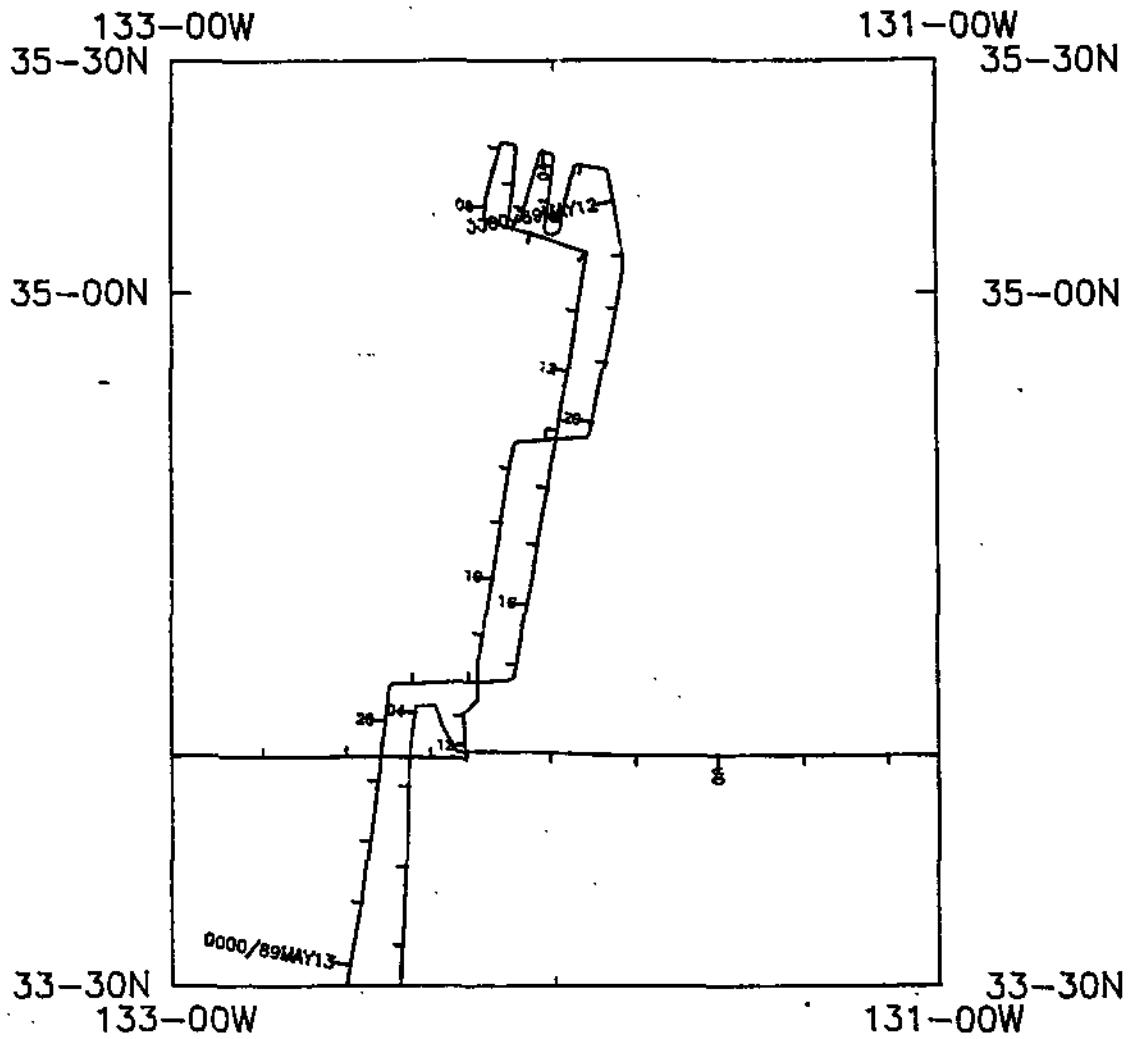
ROUNDABOUT LEG 18 (RNDB18WT)
 (Survey Track BIG G)



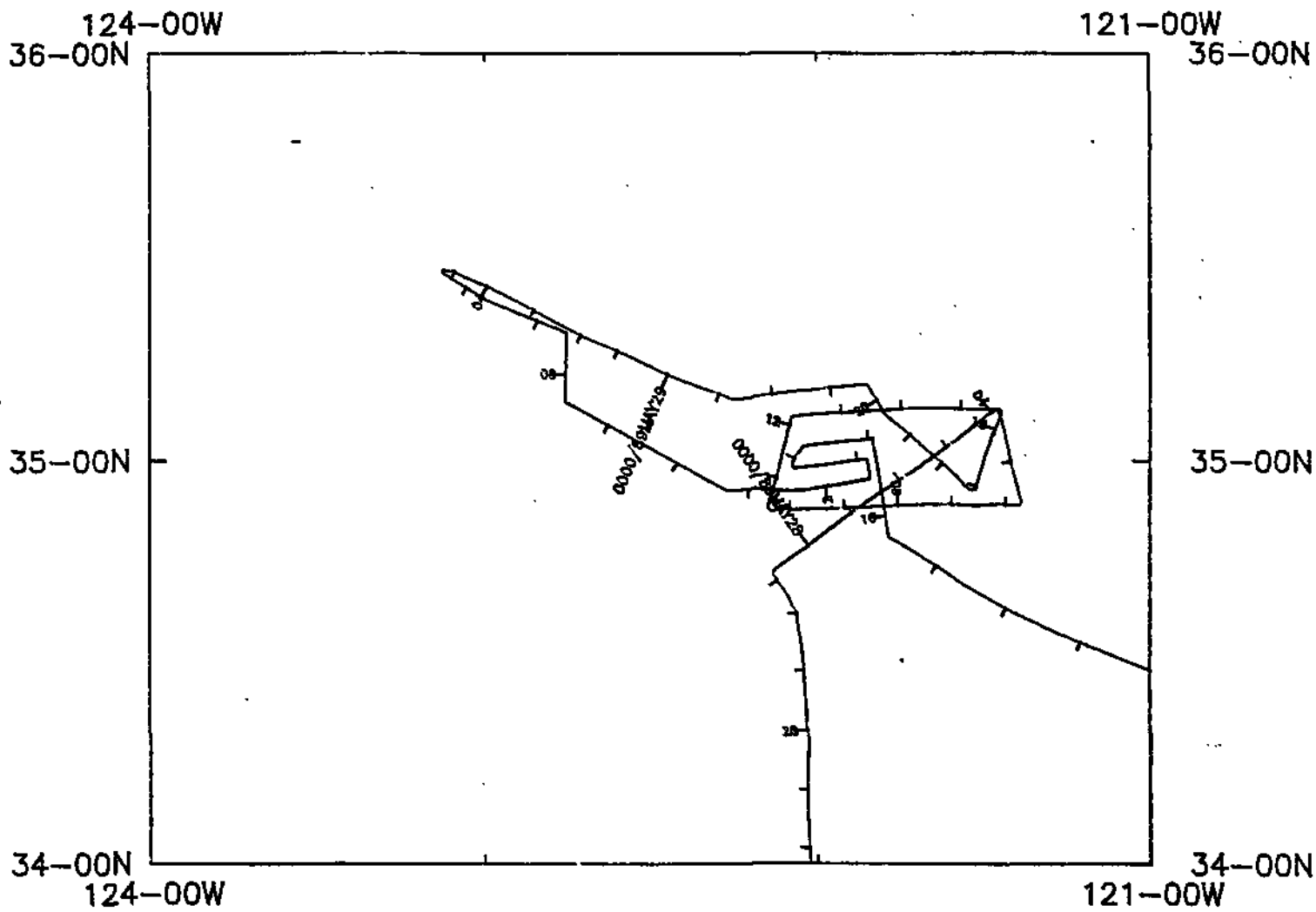
ROUNDABOUT LEG 18 (RNDB18WT)
(Survey Track FLIP)



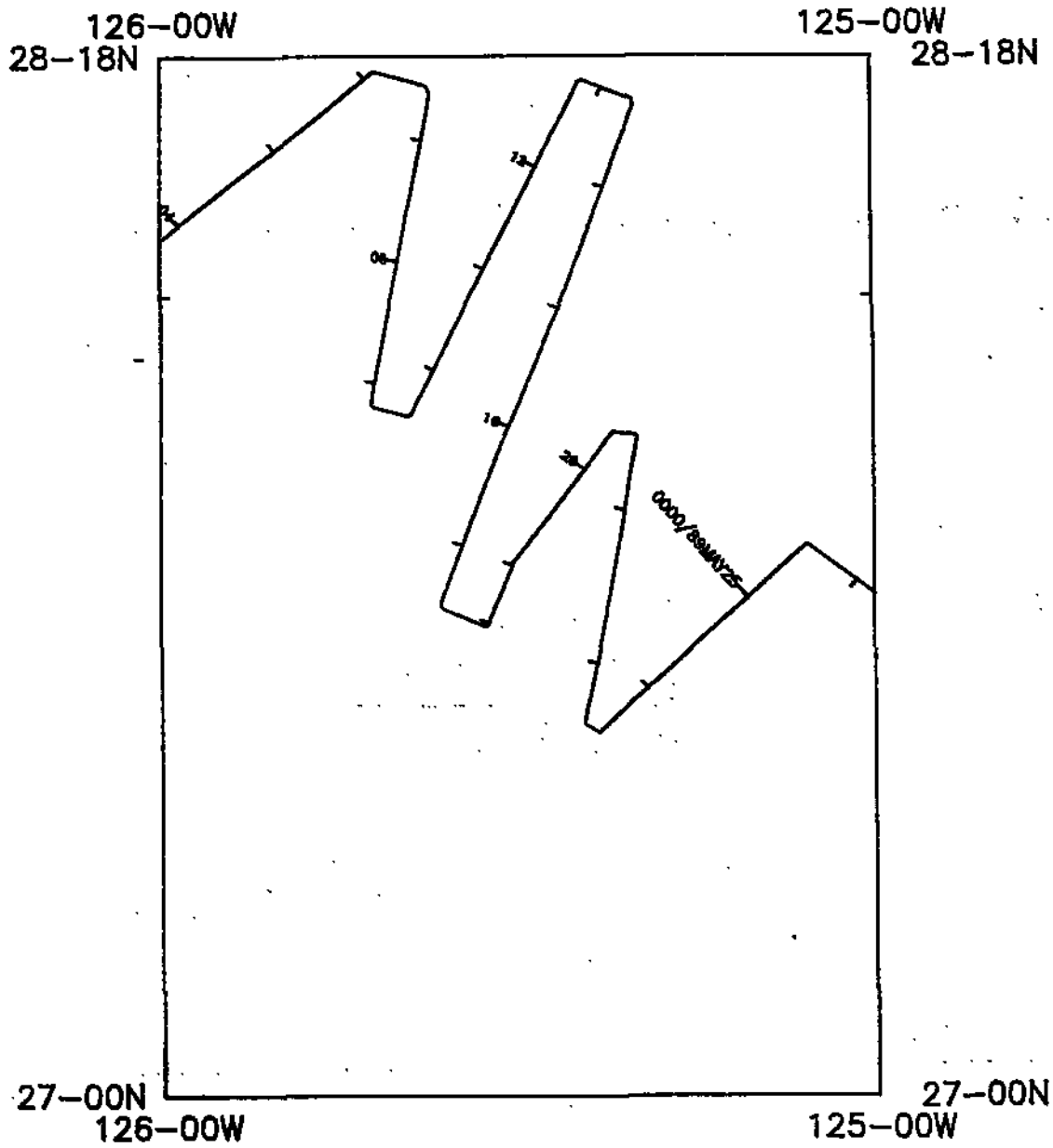
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(Survey Track FIEBERLING)



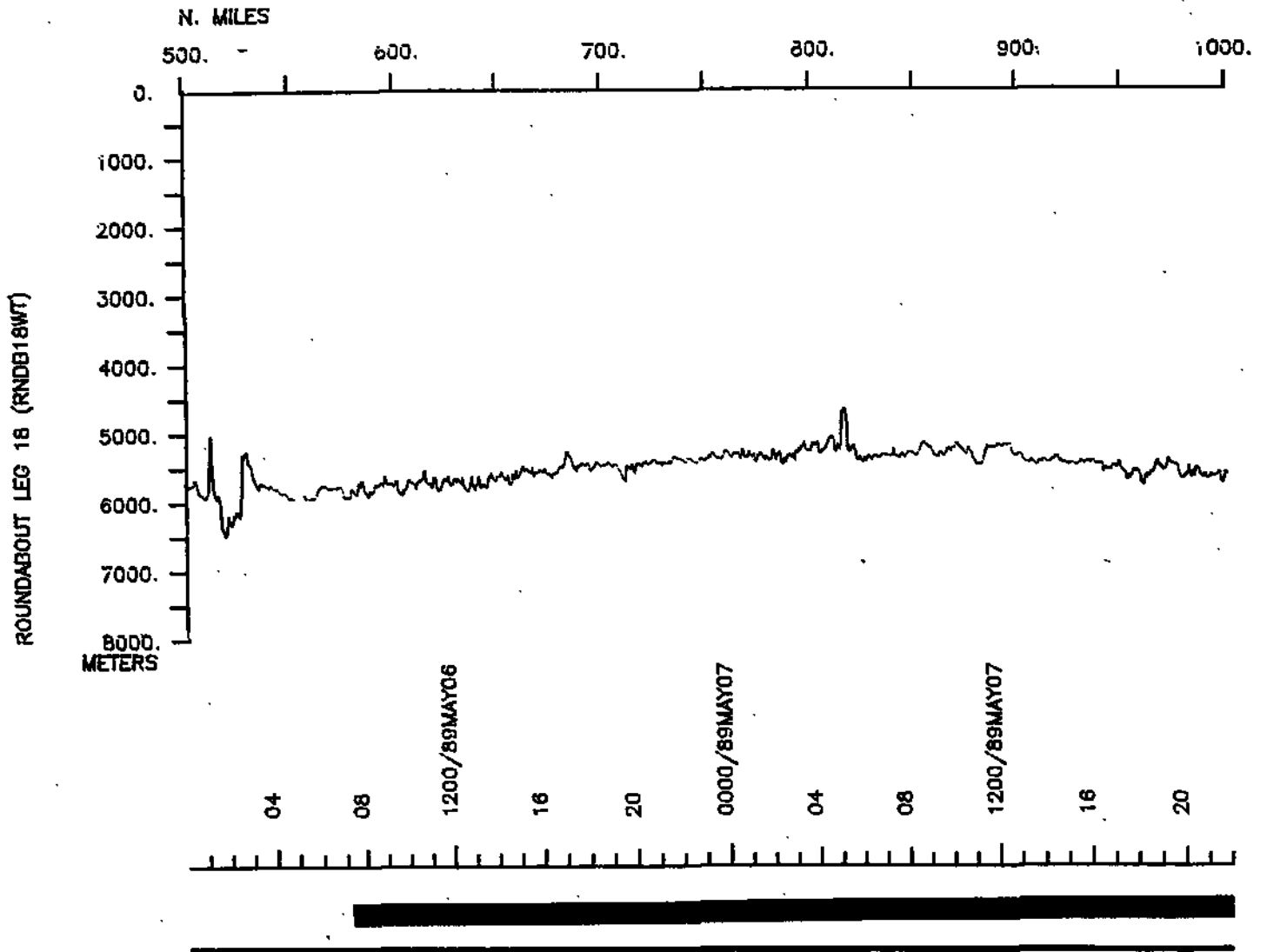
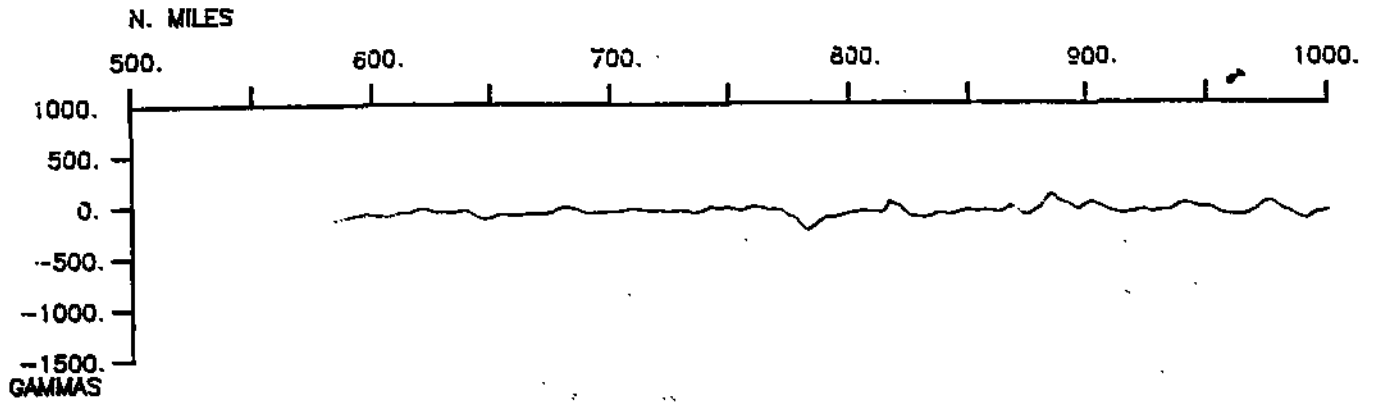
ROUNABOUT LEG 18 (RNDB18WT)
 (Survey Track ERBEN)

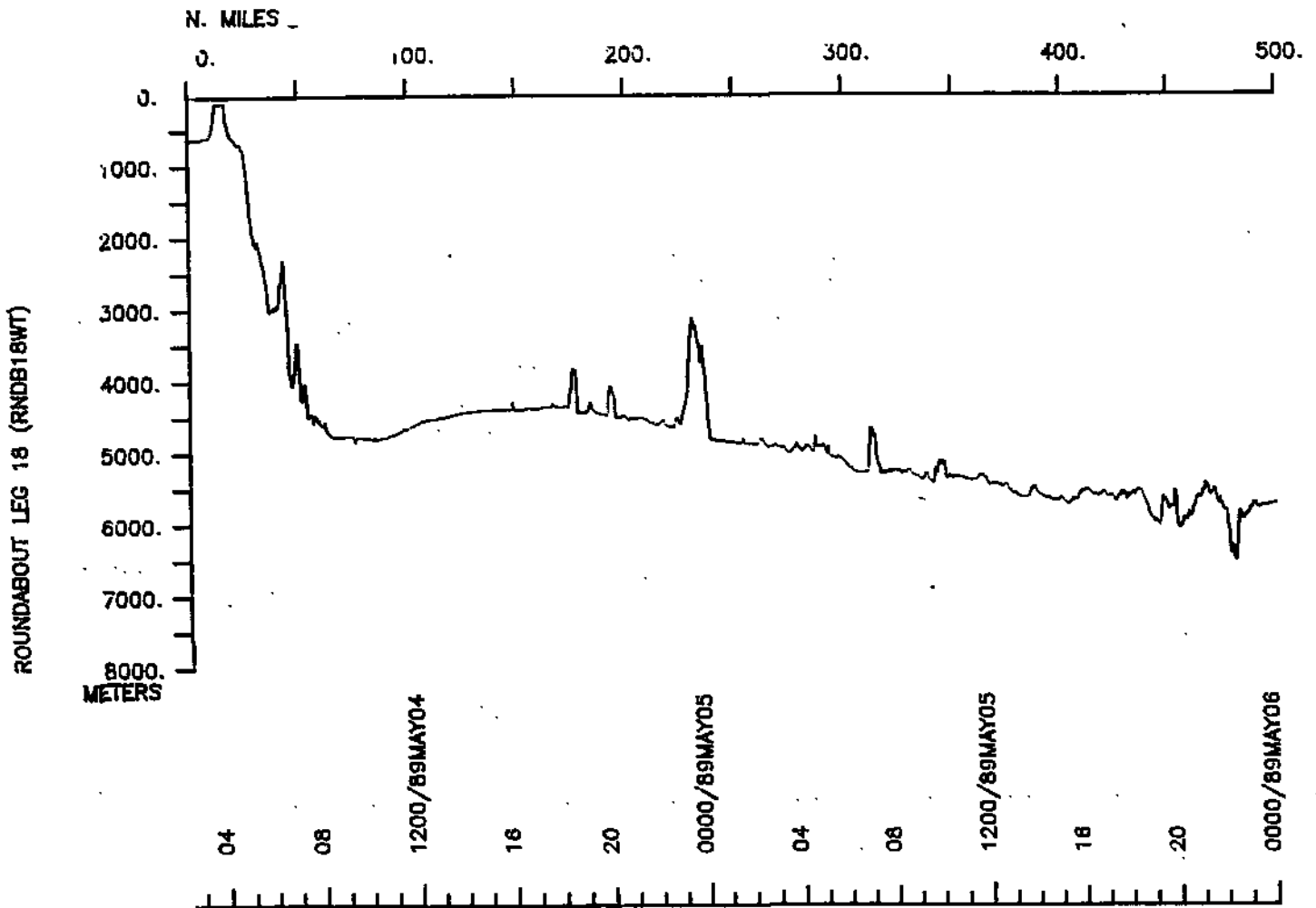
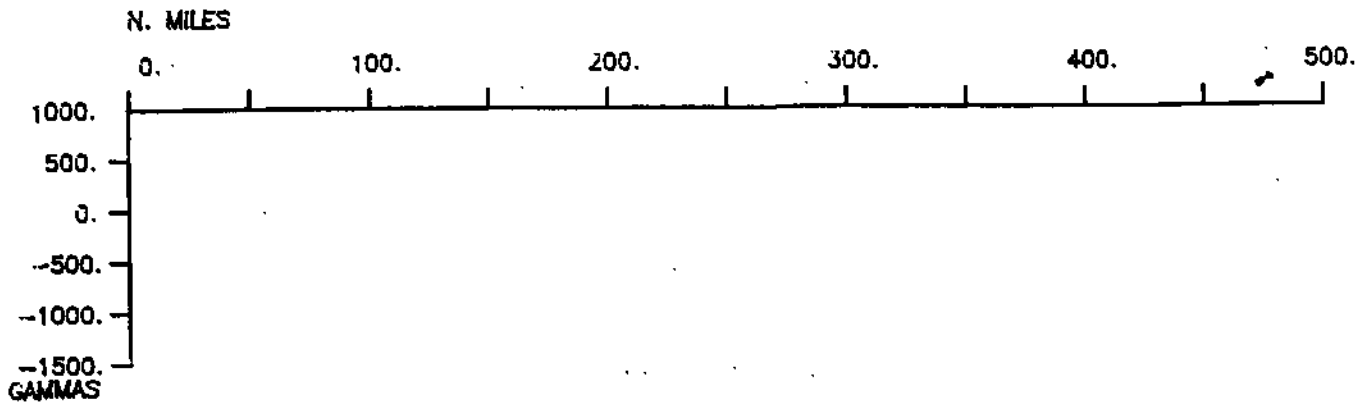


ROUNDABOUT LEG 18 (RNDB18WT)
 (Survey Track ARGUELLO)

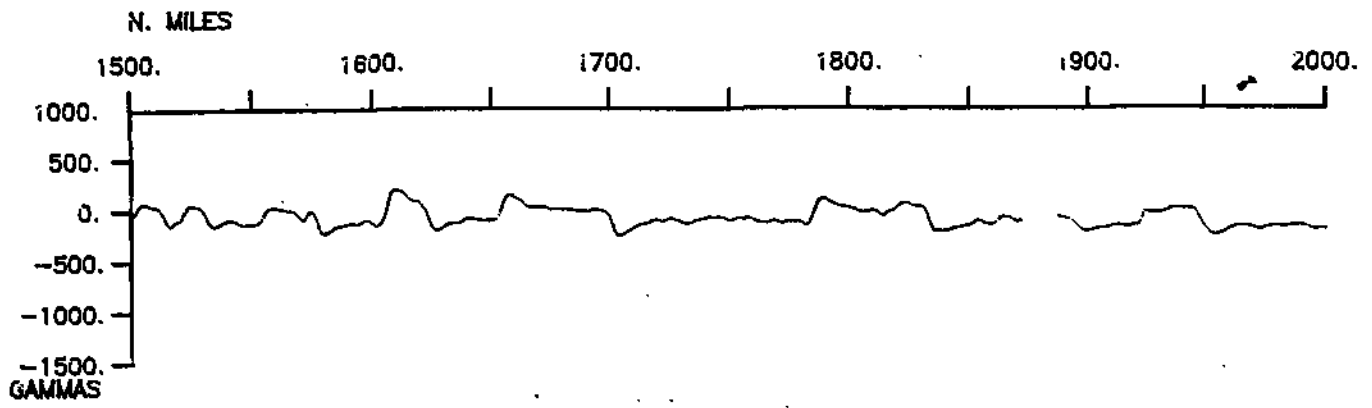


ROUNDABOUT LEG 18 (RNDB18WT)
(Survey Track SHIRLEY)

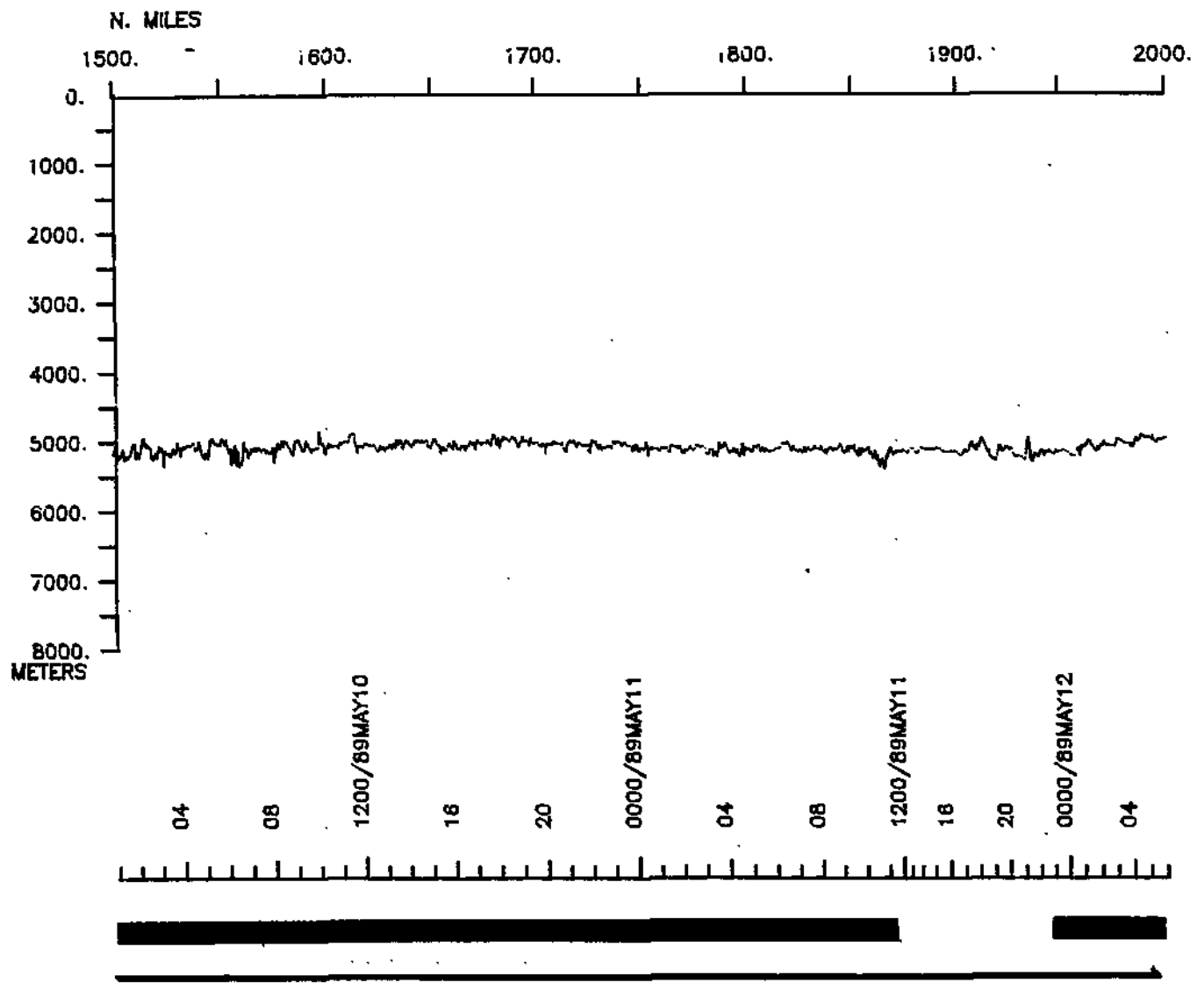


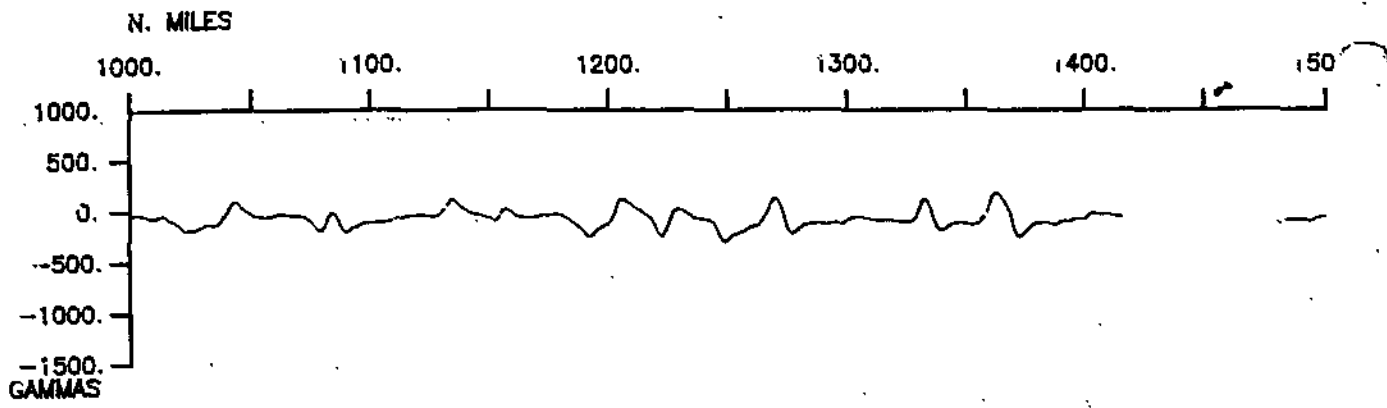


SEABEAM

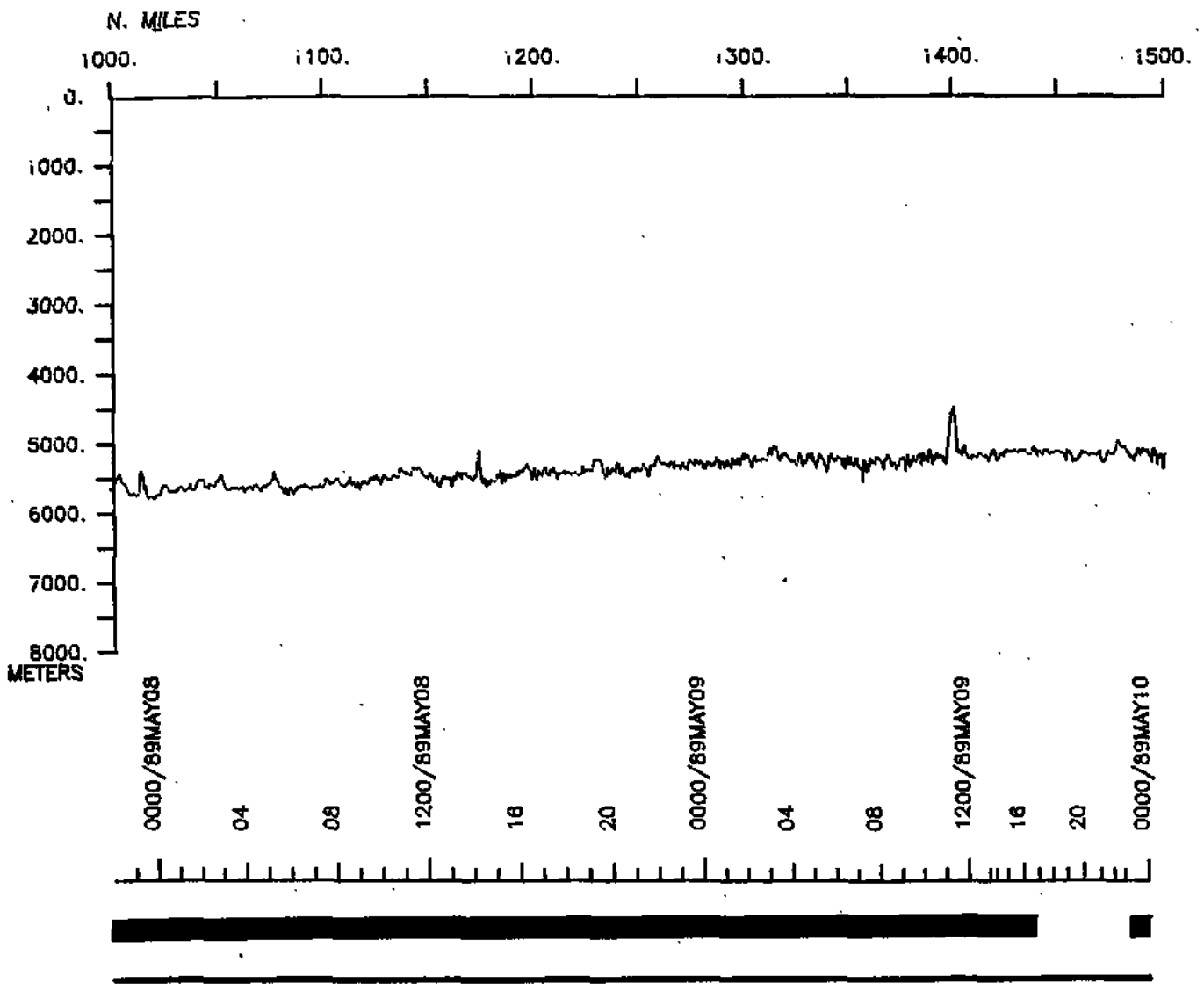


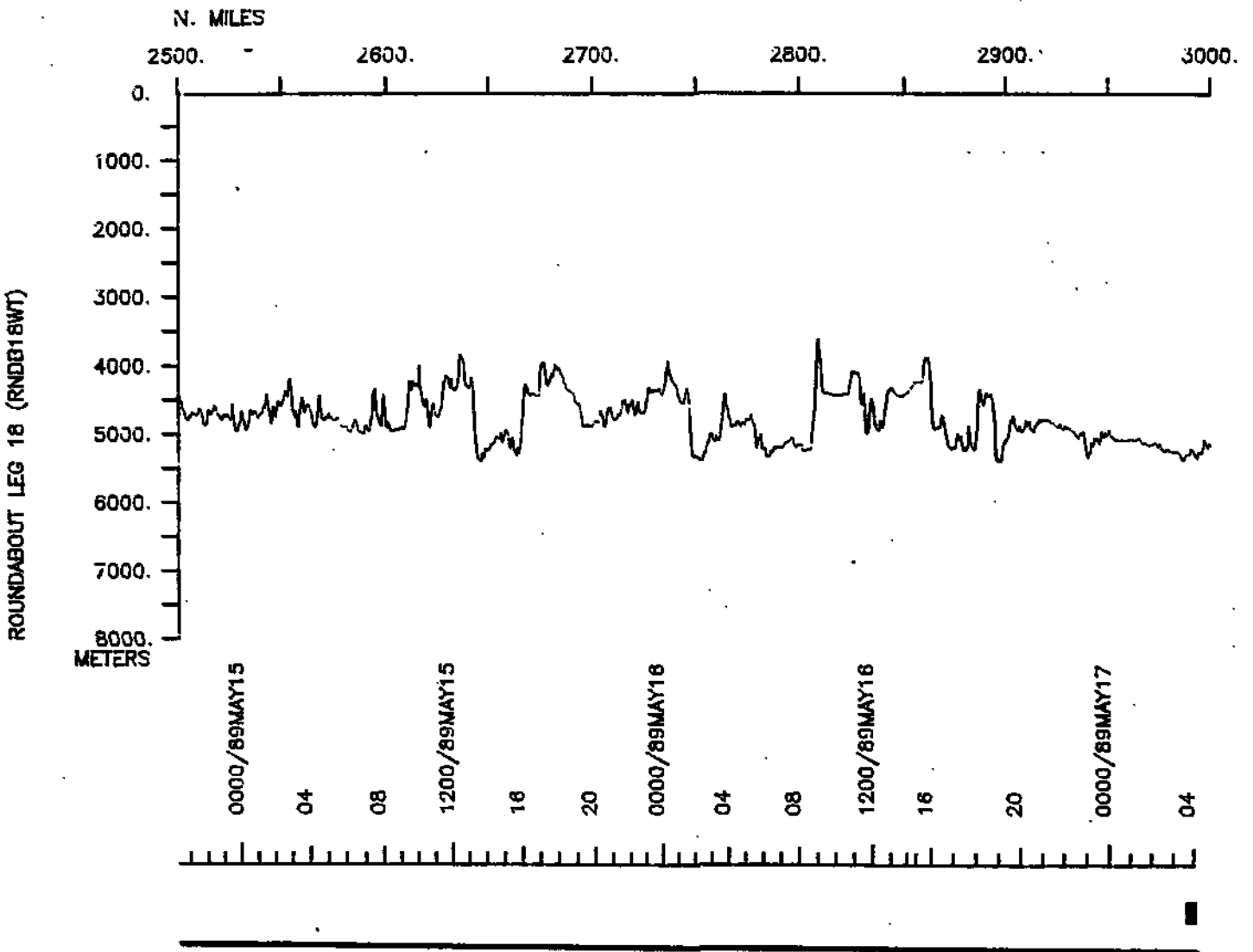
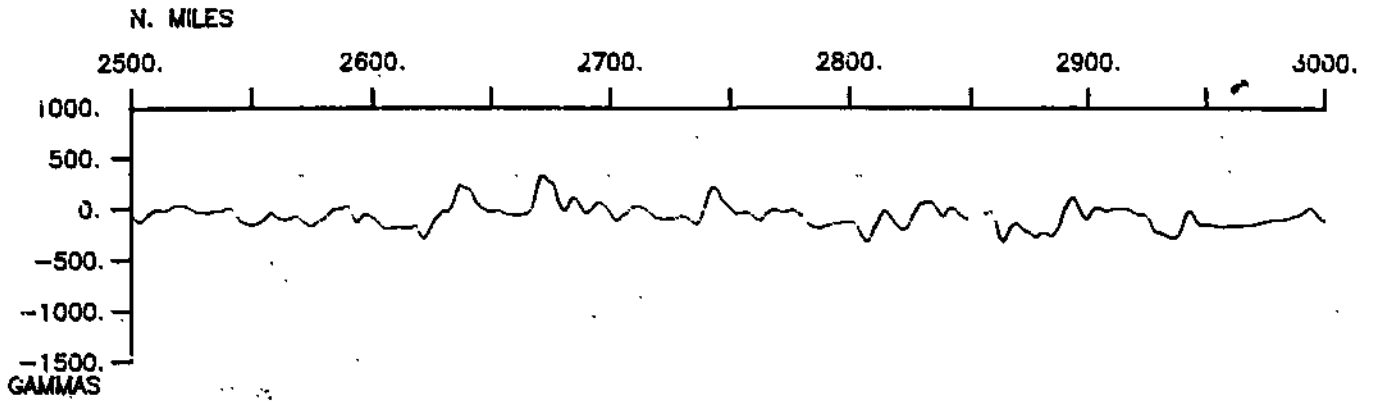
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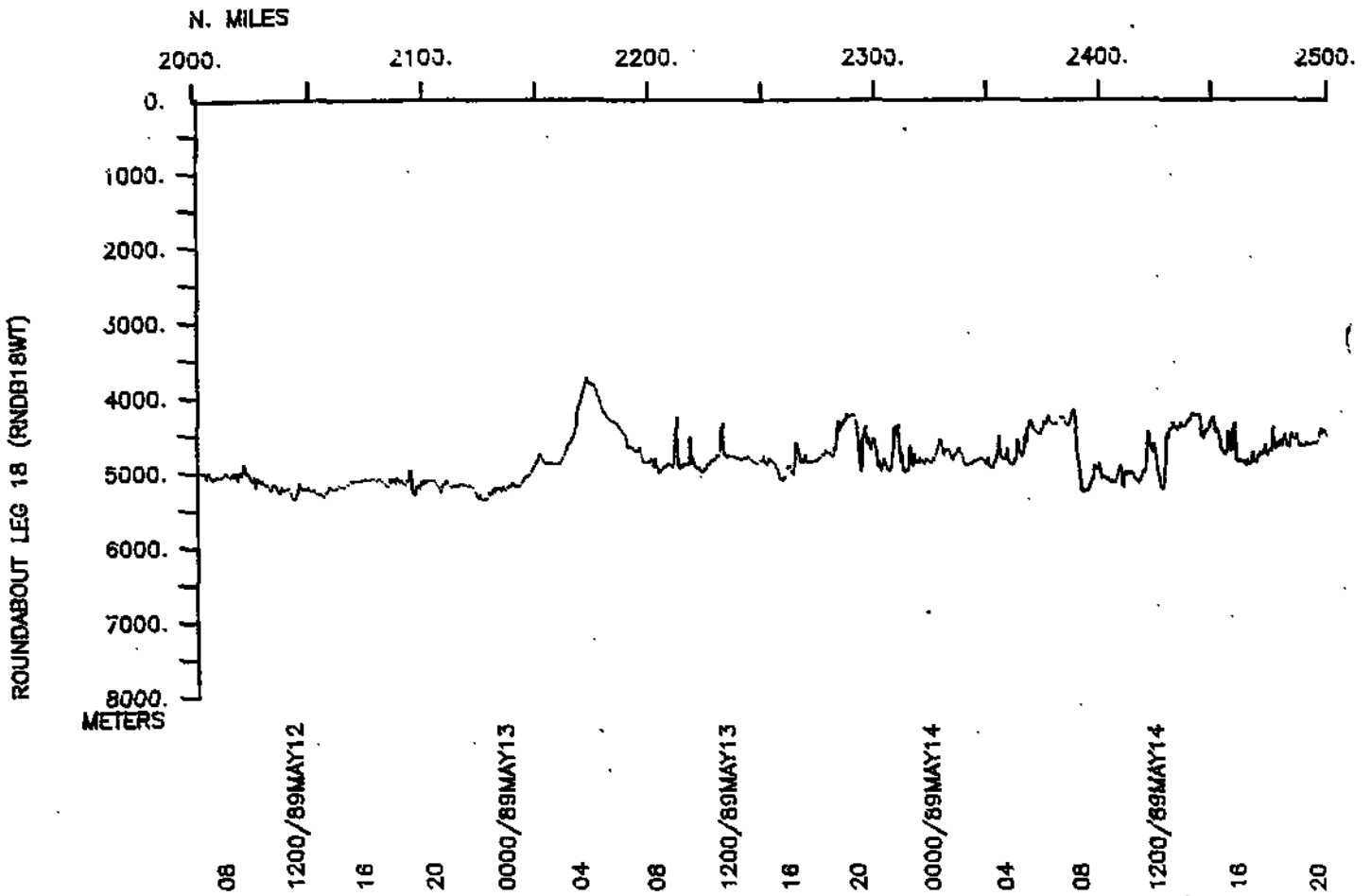




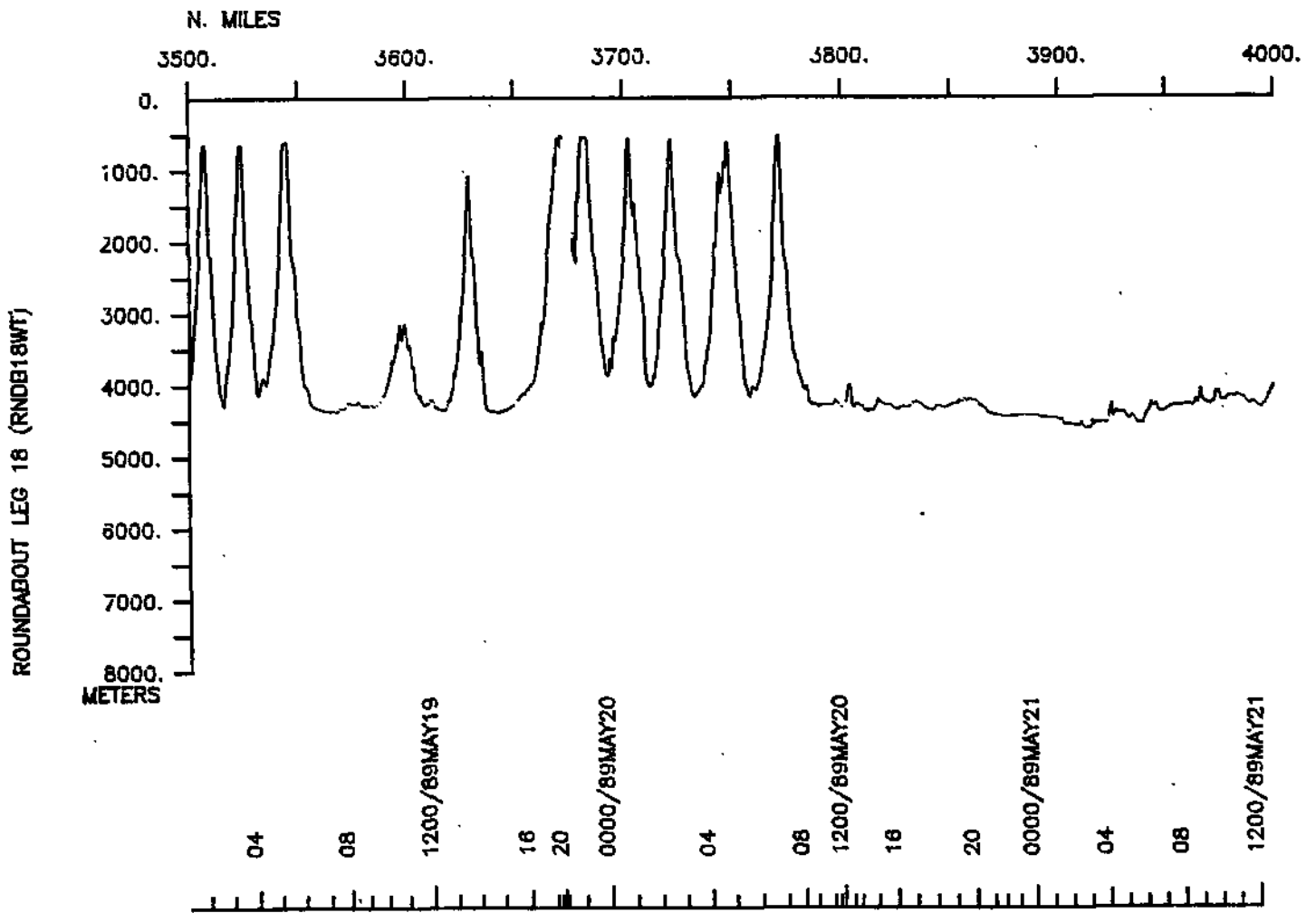
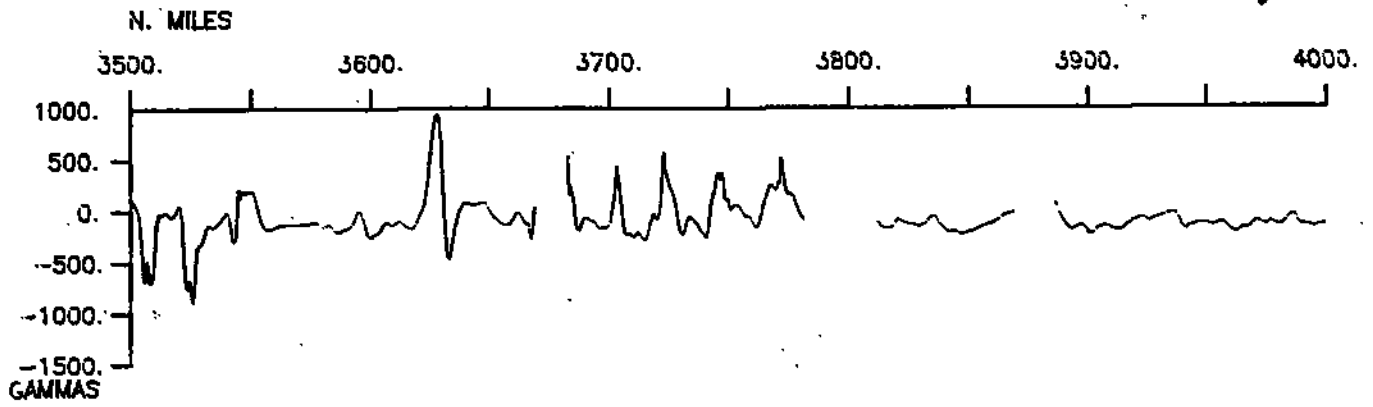
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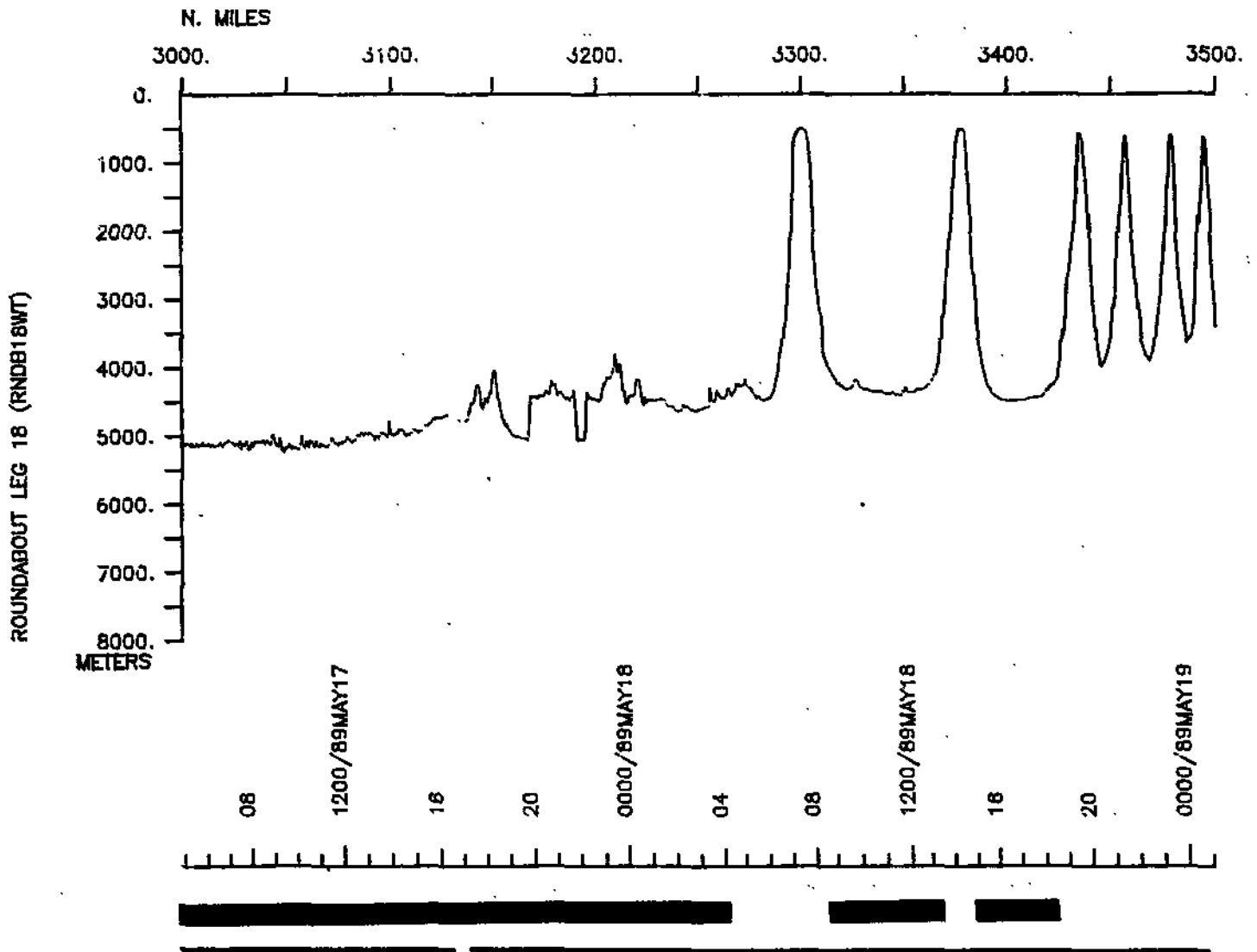


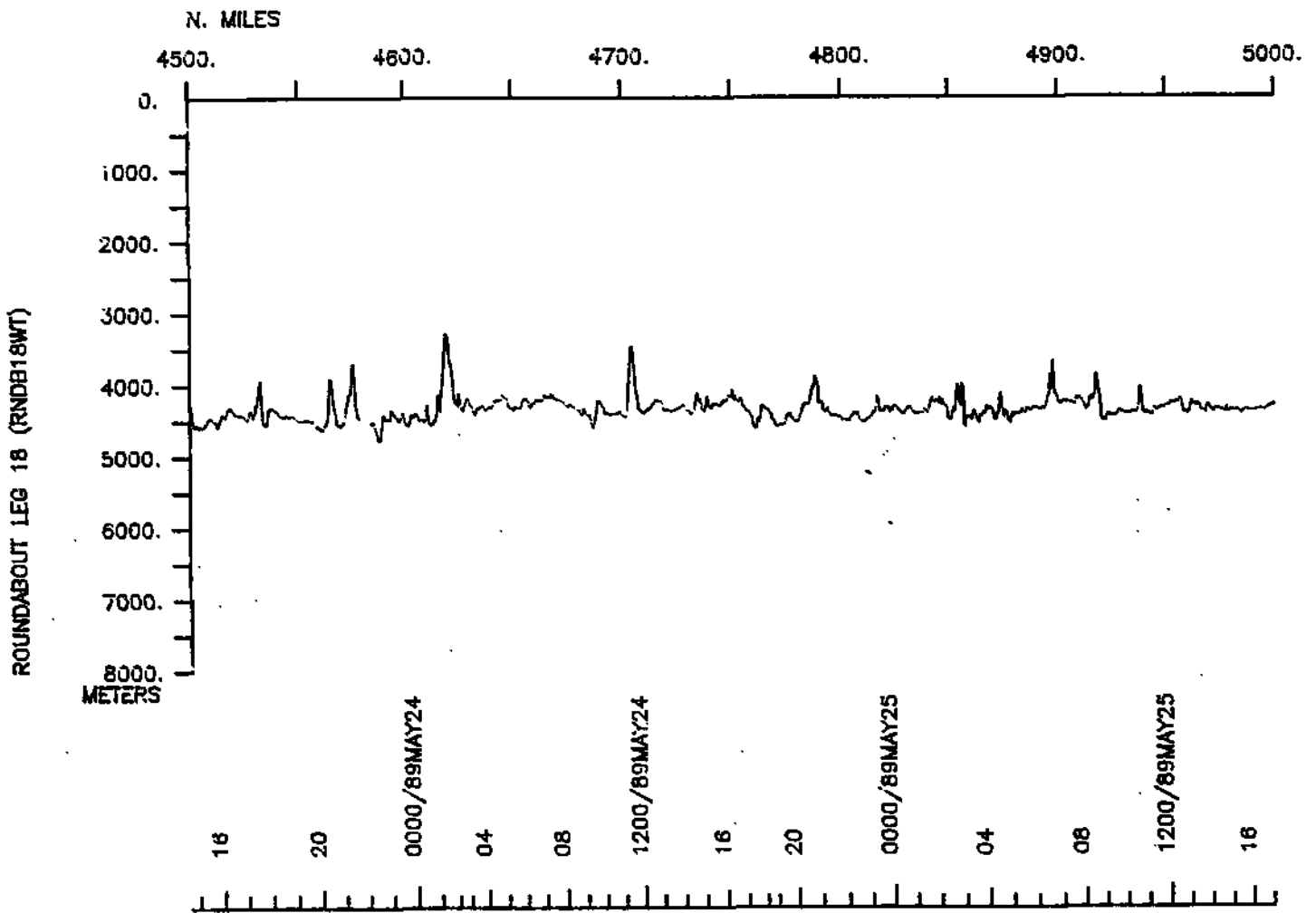
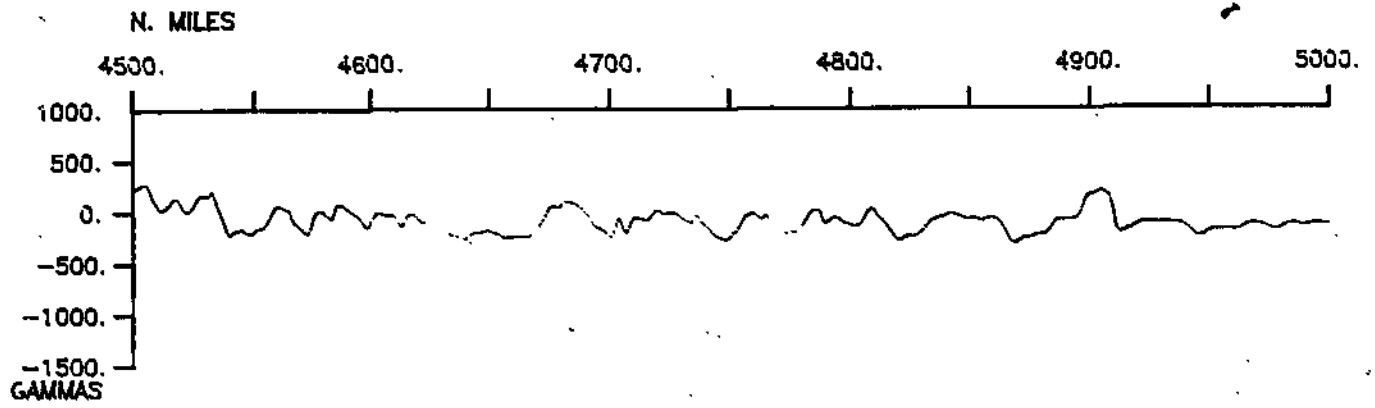


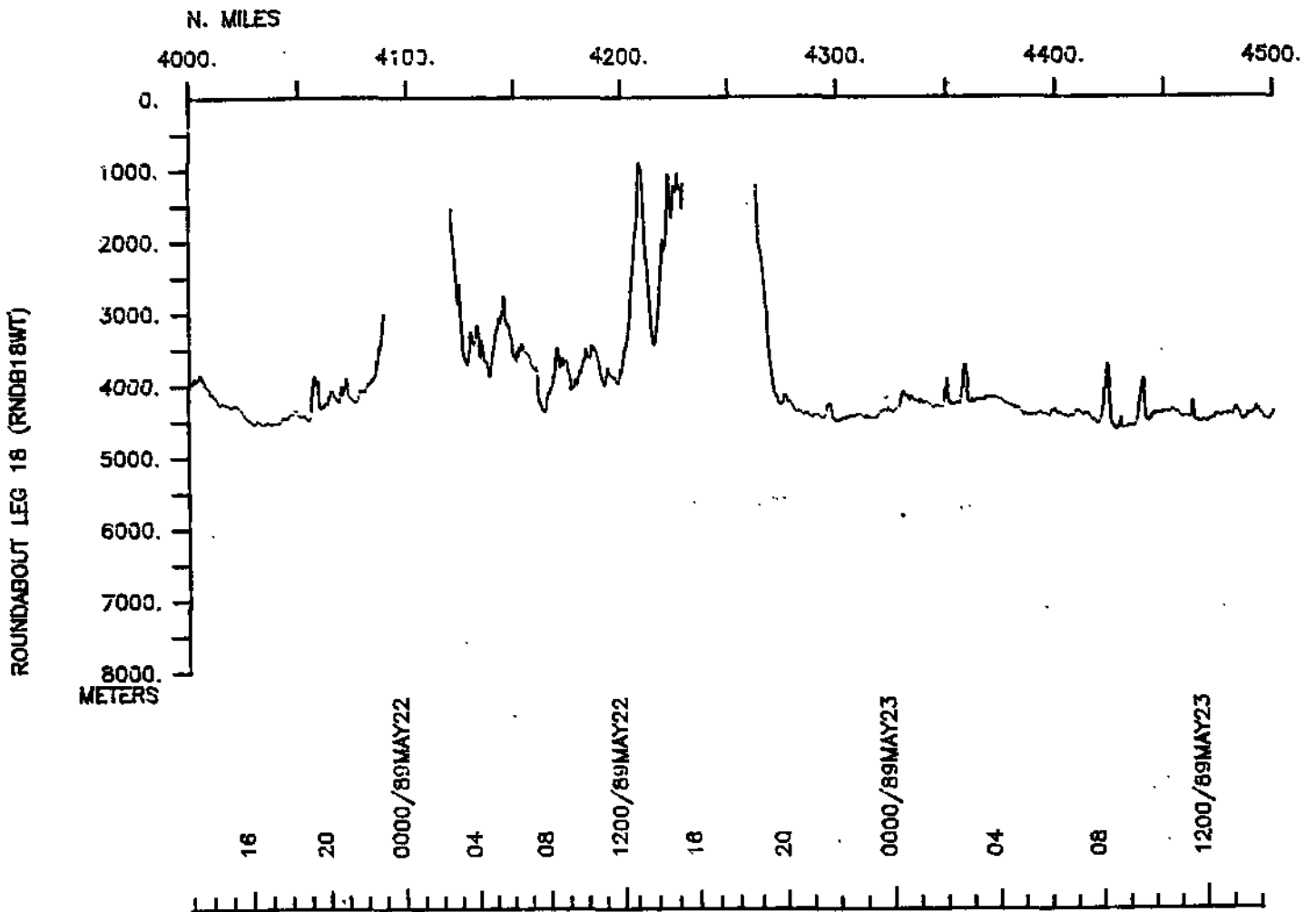
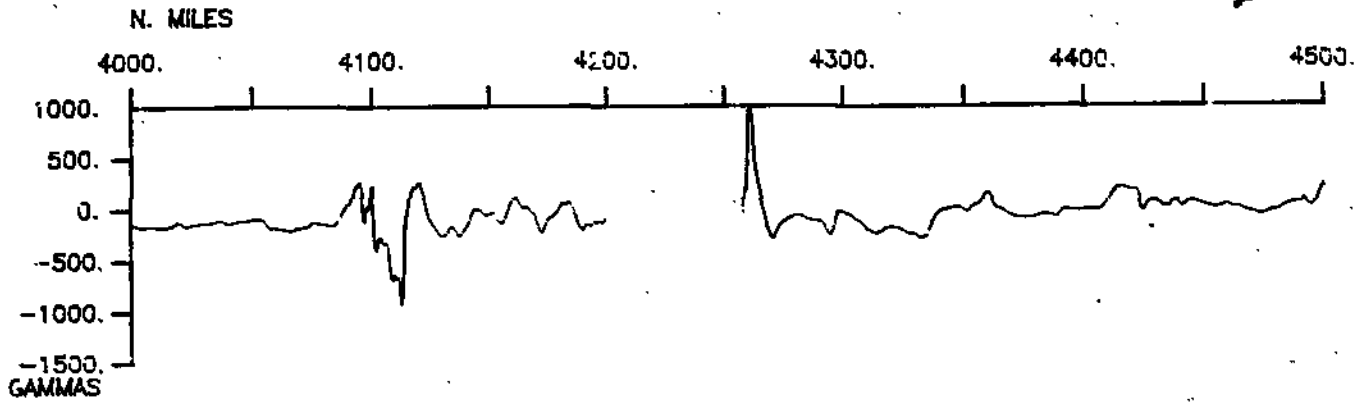
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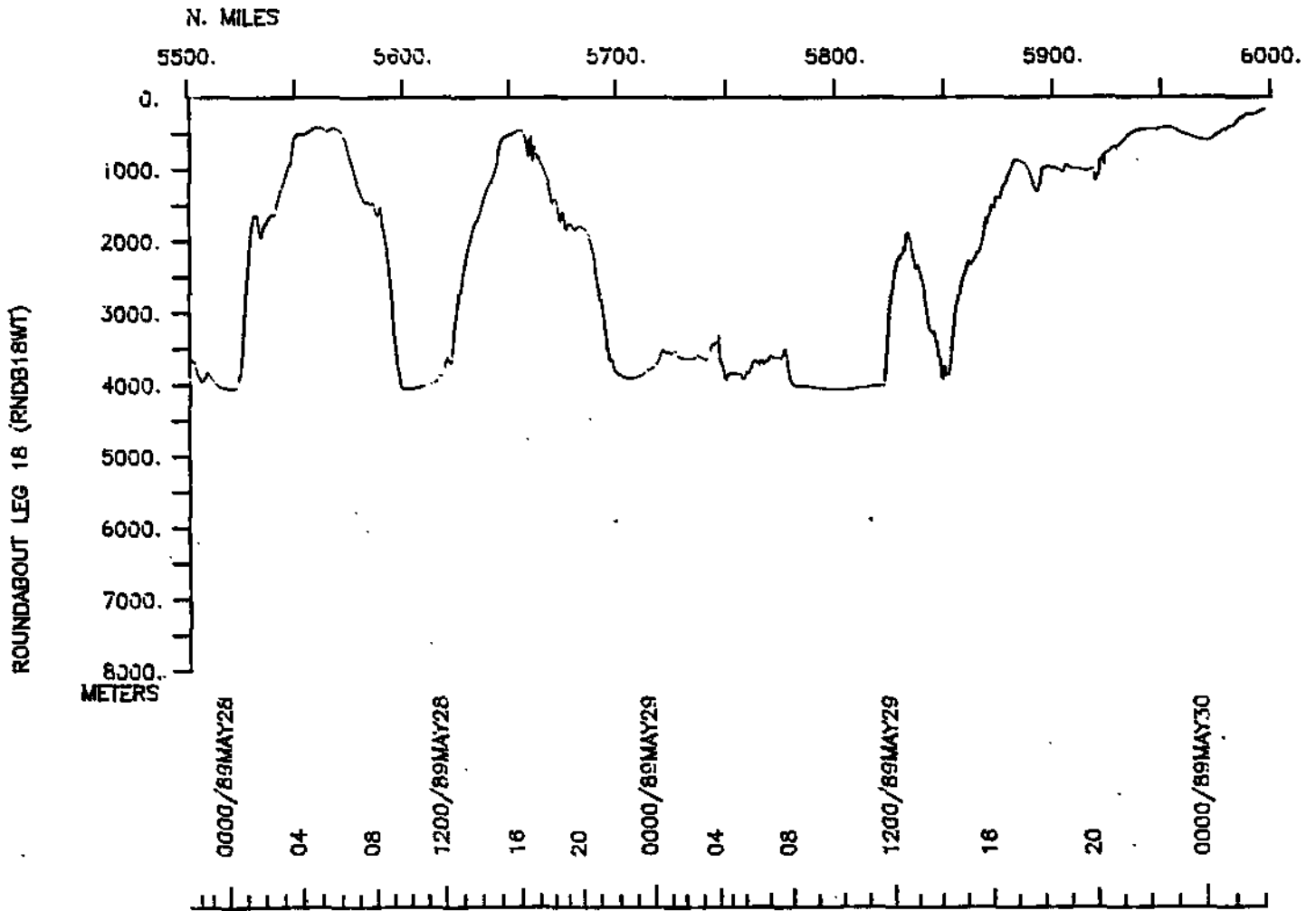
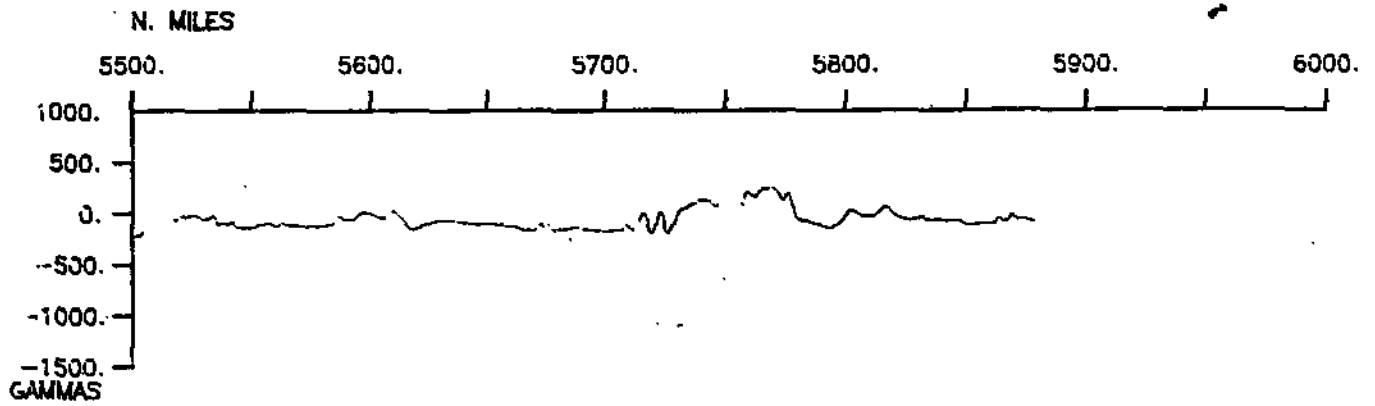
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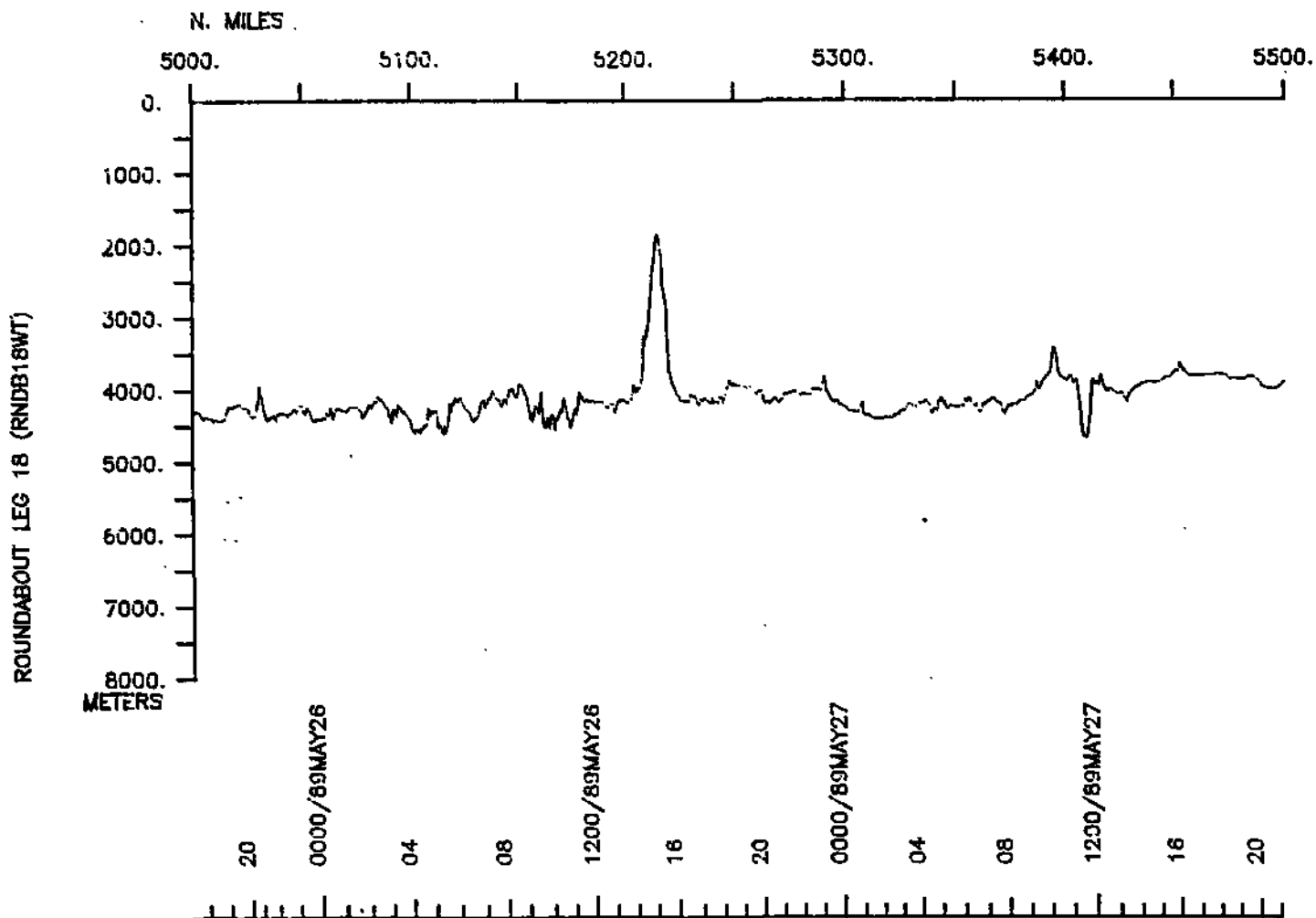
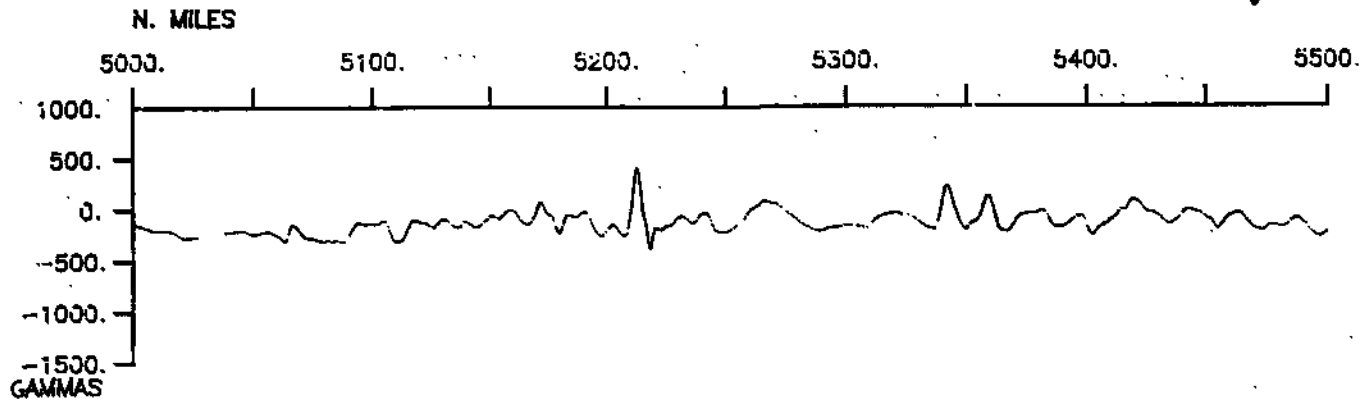


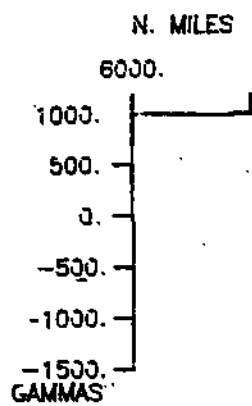




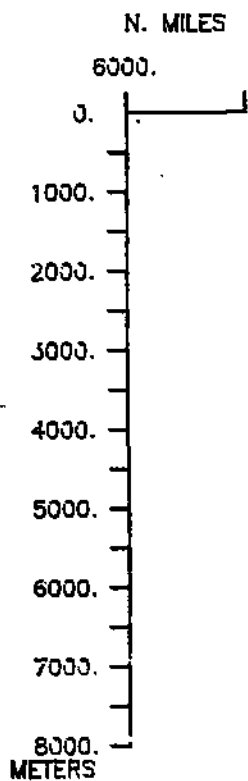
ROUNDABOUT LEG 18 (RNDB18WT)







ROUNDABOUT LEG 18 (RNDB18WT)



S.I.O. SAMPLE INDEX

(Issued July 1989)

ROUNABOUT EXPEDITION

Leg 18

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R/V T. Washington

Honolulu, Hawaii (3 May 1989)
to
San Diego, Calif. (30 May 1989)

Chief Scientist:

P. Lonsdale (Scripps Institution of Oceanography)

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 ****

1600 030589	LGPT B HONOLULU, HAWAII	21-18 N 157-52 W	FRNDB18WT
1506 300589	LGPT E SAN DIEGO, CALIF	32-43 N 117-11 W	FRNDB18WT

****PERSONNEL****

	NAME	***TITLE***	***AFFILIATION***	**CRID**
PECS MPL	LONSDALE, P.	CHIEF SCIENTIST	SCRIPPS INSTITUTION	RNDB18WT
PECT STS	CHARTERS, J.	COMPUTER TECH	SCRIPPS INSTITUTION	RNDB18WT
PEAT STS	CRAMPTON, P.	AIRGUN TECH	SCRIPPS INSTITUTION	RNDB18WT
PEBE STS	CASTRO, V.	SEABEAM ENGR	GENERAL INSTRUMENTS	RNDB18WT
PERT STS	MOGK, S.	RESTECH	SCRIPPS INSTITUTION	RNDB18WT
PESP MPL	BOBBIT, A.	SEABEAM OP	SCRIPPS INSTITUTION	RNDB18WT
PESP MPL	DEMOUSTIER, C.	SCIENTIST	SCRIPPS INSTITUTION	RNDB18WT
PESP SIX	SMITH, D.	SCIENTIST	WHOODS HOLE OCEAN.	RNDB18WT
PESP SIX	SHOR, A.	SCIENTIST	HAWAII INST.GEOPHYS.	RNDB18WT
PEMT SIX	ERICKSON, J.	MARINE TECH	HAWAII INST.GEOPHYS.	RNDB18WT
PEMT SIX	SIMPSON, K.	MARINE TECH	HAWAII INST.GEOPHYS.	RNDB18WT
PEST SIX	BAKER, N.	STUDENT	HAWAII INST.GEOPHYS.	RNDB18WT
PEST SIX	CLAYSON, C.	STUDENT	U.OF CAL.SANTA BARBARA	RNDB18WT
PEST SIX	JOHNSON, D.	STUDENT	HAWAII INST.GEOPHYS.	RNDB18'
PEST SIX	MUELLER, T.	STUDENT	HAWAII INST.GEOPHYS.	RNDB18w.
PEST MPL	STEVENSON, M.	STUDENT	SCRIPPS INSTITUTION	RNDB18WT

****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.

#	TIME	DATE	TIME Z	CODE	IDENTIFIER	CODE	LAT.	LONG.	LEG-SHIP
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***UNDERWAY DATA CURATOR - S. M. SMITH EXT. 42752

LOG BOOKS

0430	040589			LBUW B	U/W WATCH LOG	GDC	21-255N	157-353W	sRNDB18WT
1930	290589			LBUW E	U/W WATCH LOG	GDC	34-308N	121-058W	sRNDB18WT

*** ECHO SOUNDER RECORDS ***

0300	040589			MBRM B	SEABEAM MONITOR R-01	GDC	21-122N	157-434W	sRNDB18WT
2232	070589			MBRM E	SEABEAM MONITOR R-01	GDC	32-338N	148-004W	sRNDB18WT
2236	070589			MBRM B	SEABEAM MONITOR R-02	GDC	32-339N	147-596W	sRNDB18WT
1455	190589			MBRM E	SEABEAM MONITOR R-02	GDC	32-305N	127-194W	sRNDB18WT
1458	190589			MBRM B	SEABEAM MONITOR R-03	GDC	32-310N	127-196W	sRNDB18WT
14	250589			MBRM E	SEABEAM MONITOR R-03	GDC	28-531N	123-434W	sRNDB18WT
1816	250589			MBRM B	SEABEAM MONITOR R-04	GDC	28-535N	123-434W	sRNDB18WT
1506	300589			MBRM E	SEABEAM MONITOR R-04	GDC	32-424N	117-143W	sRNDB18WT
0444	060589			DPR3 B	EPC 3.5KHZ R-01	GDC	30-059N	156-035W	sRNDB18WT
2315	100589			DPR3 E	EPC 3.5KHZ R-01	GDC	33-596N	134-527W	sRNDB18WT

*** SEISMIC REFLECTION RECORDS ***

0739	060589			SPRF B	FAST SEISMICS R-01	GDC	30-349N	155-578W	sRNDB18WT
2310	090589			SPRF E	FAST SEISMICS R-01	GDC	34-021N	140-034W	sRNDB18WT
2312	090589			SPRF B	FAST SEISMICS R-02	GDC	34-019N	140-031W	sRNDB18WT
0130	240589			SPRF E	FAST SEISMICS R-02	GDC	27-549N	126-113W	sRNDB18WT
2313	270589			SPRF B	FAST SEISMICS R-03	GDC	34-434N	122-080W	sRNDB18WT
1629	290589			SPRF E	FAST SEISMICS R-03	GDC	34-473N	121-443W	sRNDB18WT
0739	060589			SPRF B	SLOW SEISMICS R-01	GDC	30-349N	155-578W	sRNDB18WT
2308	090589			SPRF E	SLOW SEISMICS R-01	GDC	34-024N	140-038W	sRNDB18WT
0310	090589			SPRF B	SLOW SEISMICS R-02	1DC	34-021N	140-034W	sRNDB18WT
030	240589			SPRF E	SLOW SEISMICS R-02	GDC	27-549N	126-113W	sRNDB18WT
2313	270589			SPRF B	SLOW SEISMICS R-03	GDC	34-434N	122-080W	sRNDB18WT
1629	290589			SPRF E	SLOW SEISMICS R-03	GDC	34-473N	121-443W	sRNDB18WT

#	TIME	DATE	TIME Z	CODE	IDENTIFIER	CODE	LAT.	LONG.	LEG-SHIP
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*** MAGNETIC (EARTH TOTAL FIELD) RECORDS ***

0745	060589			MGRA	B MAGNETICS R-01	GDC	30-353N	155-567W	sRNDB18WT
1126	110589			MGRA	E MAGNETICS R-01	GDC	33-599N	132-137W	sRNDB18WT
1443	110589			MGRA	B MAGNETICS R-02	GDC	34-138N	132-115W	sRNDB18WT
0131	240589			MGRA	E MAGNETICS R-02	GDC	27-548N	126-111W	sRNDB18WT
0133	240589			MGRA	B MAGNETICS R-03	GDC	27-547N	126-108W	sRNDB18WT
1629	290589			MGRA	E MAGNETICS R-03	GDC	34-473N	121-443W	sRNDB18WT

*** SEABEAM ARCHIVE SWATH BOOKS ***

0314	040589			MBSB	B SB ARC SWATH BK 01	GDC	21-132N	157-410W	sRNDB18WT
1212	050589			MBSB	E SB ARC SWATH BK 01	GDC	27-072N	156-384W	sRNDB18WT
1212	050589			MBSB	B SB ARC SWATH BK 02	GDC	27-072N	156-384W	sRNDB18WT
0018	060589			MBSB	E SB ARC SWATH BK 02	GDC	29-183N	156-146W	sRNDB18WT
0020	060589			MBSB	B SB ARC SWATH BK 03	GDC	29-187N	156-145W	sRNDB18WT
1020	080589			MBSB	E SB ARC SWATH BK 03	GDC	33-037N	145-352W	sRNDB18WT
1020	080589			MBSB	B SB ARC SWATH BK 04	GDC	33-037N	145-352W	sRNDB18WT
1905	090589			MBSB	E SB ARC SWATH BK 04	GDC	34-057N	139-582W	sRNDB18WT
1905	090589			MBSB	B SB ARC SWATH BK 05	GDC	34-057N	139-582W	sRNDB18WT
0633	110589			MBSB	B SB ARC SWATH BK 05	GDC	34-004N	133-174W	sRNDB18WT
0633	110589			MBSB	B SB ARC SWATH BK 06	GDC	34-004N	133-174W	sRNDB18WT
0313	130589			MBSB	E SB ARC SWATH BK 06	GDC	33-065N	132-380W	sRNDB18WT
0313	130589			MBSB	B SB ARC SWATH BK 07	GDC	33-065N	132-380W	sRNDB18WT
0011	150589			MBSB	E SB ARC SWATH BK 07	GDC	32-065N	133-584W	sRNDB18WT
0011	150589			MBSB	B SB ARC SWATH BK 08	GDC	32-065N	133-584W	sRNDB18WT
2004	160589			MBSB	E SB ARC SWATH BK 08	GDC	33-105N	133-067W	sRNDB18WT
2004	160589			MBSB	B SB ARC SWATH BK 09	GDC	33-105N	133-067W	sRNDB18WT
0508	180589			MBSB	E SB ARC SWATH BK 09	GDC	32-306N	128-150W	sRNDB18WT
0508	180589			MBSB	B SB ARC SWATH BK 10	GDC	32-306N	128-150W	sRNDB18WT
1112	190589			MBSB	E SB ARC SWATH BK 10	GDC	32-165N	127-420W	sRNDB18WT

#	TIME	DATE	TIME Z	CODE	IDENTIFIER	CODE	LAT.	LONG.	LEG-SHIP
1114	190589			MBSB B SB	ARC SWATH BK 11	GDC	32-164N	127-416W	sRNDB18WT
0507	210589			MBSB E SB	ARC SWATH BK 11	GDC	32-302N	128-092W	sRNDB18WT
0507	210589			MBSB B SB	ARC SWATH BK 12	GDC	32-302N	128-092W	sRNDB18WT
0437	230589			MBSB E SB	ARC SWATH BK 12	GDC	30-301N	127-197W	sRNDB18WT
0437	230589			MBSB B SB	ARC SWATH BK 13	GDC	30-301N	127-197W	sRNDB18WT
1524	240589			MBSB E SB	ARC SWATH BK 13	GDC	27-556N	125-282W	sRNDB18WT
1524	240589			MBSB B SB	ARC SWATH BK 14	GDC	27-556N	125-282W	sRNDB18WT
0627	260589			MBSB E SB	ARC SWATH BK 14	GDC	29-432N	123-430W	sRNDB18WT
0627	260589			MBSB B SB	ARC SWATH BK 15	GDC	29-432N	123-430W	sRNDB18WT
2256	270589			MBSB E SB	ARC SWATH BK 15	GDC	34-419N	122-070W	sRNDB18WT
2256	270589			MBSB B SB	ARC SWATH BK 16	GDC	34-419N	122-070W	sRNDB18WT
1202	290589			MBSB E SB	ARC SWATH BK 16	GDC	34-562N	121-581W	sRNDB18WT
002	290589			MBSB B SB	ARC SWATH BK 17	GDC	34-562N	121-581W	sRNDB18WT
1506	300589			MBSB E SB	ARC SWATH BK 17	GDC	32-424N	117-143W	sRNDB18WT

*** EXPENDABLE BATHYTHERMOGRAPHS ***

2349	050889			BTXP B	XBT 1-45	NOA	32-424N	117-143W	sRNDB18WT
1600	050989			BTXP E	XBT 1-45	NOA	32-424N	117-143W	sRNDB18WT

*** END SAMPLE INDEX