

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

ROUNABOUT EXPEDITION

LEG 11

R/V Washington

Majuro, Marshall Islands (17 December 1988)
to
Majuro, Marshall Islands (30 December 1988)

Co-Chief Scientists:

E. L. Winterer - Scripps Institution of Oceanography
T. Shipley - University of Texas, Austin
L. Mayer - Dalhousie University, Canada

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.
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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

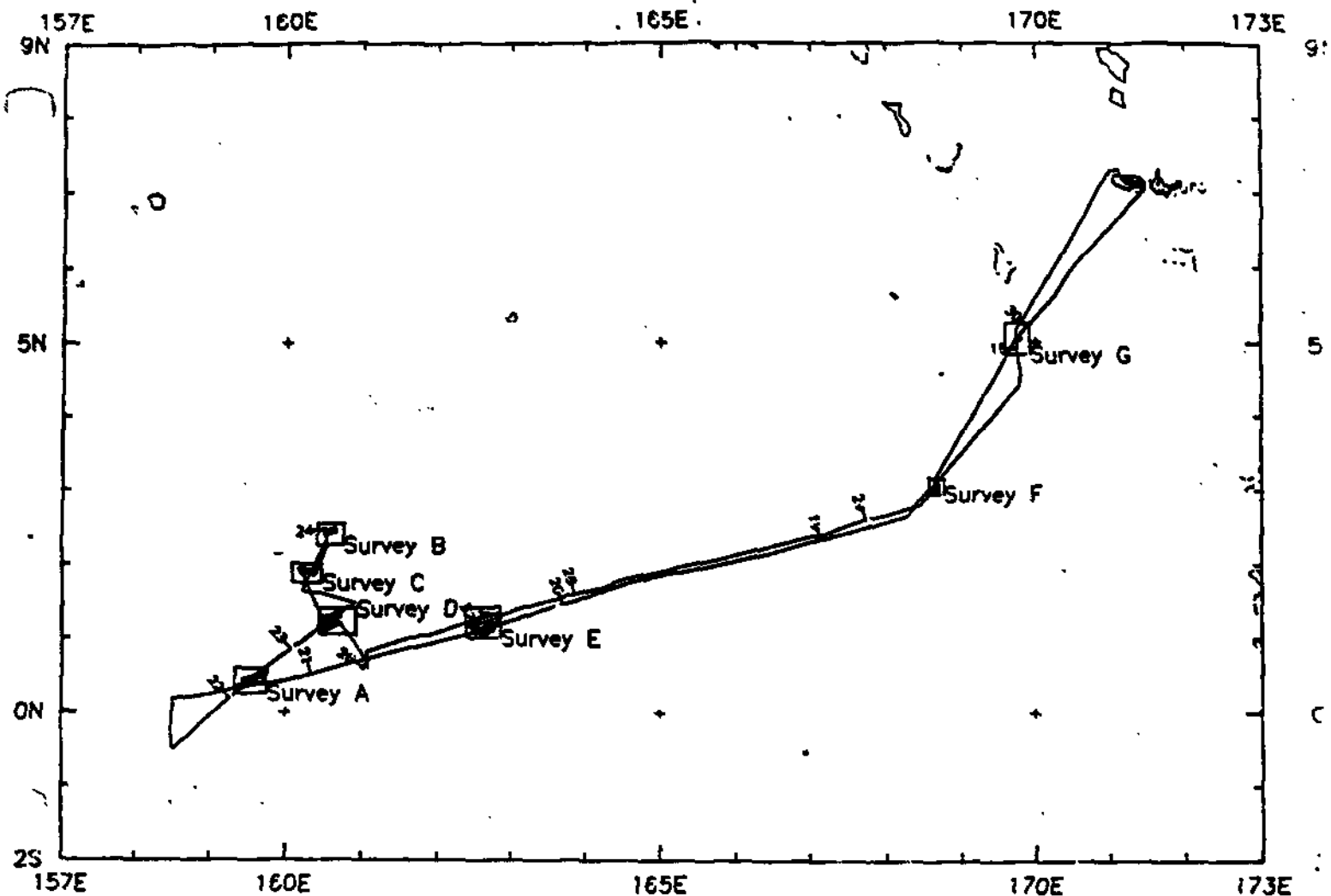
Revised September 1987

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 11 (RNDB11WT) R/V Thomas Washington

ROUNABOUT EXPEDITION LEG 11

CO-CHIEF SCIENTISTS:

E. L. Winterer (Scripps Institution of Oceanography)

T. Shipley (University of Texas, Austin)

L. Mayer (Dalhousie University, Canada)

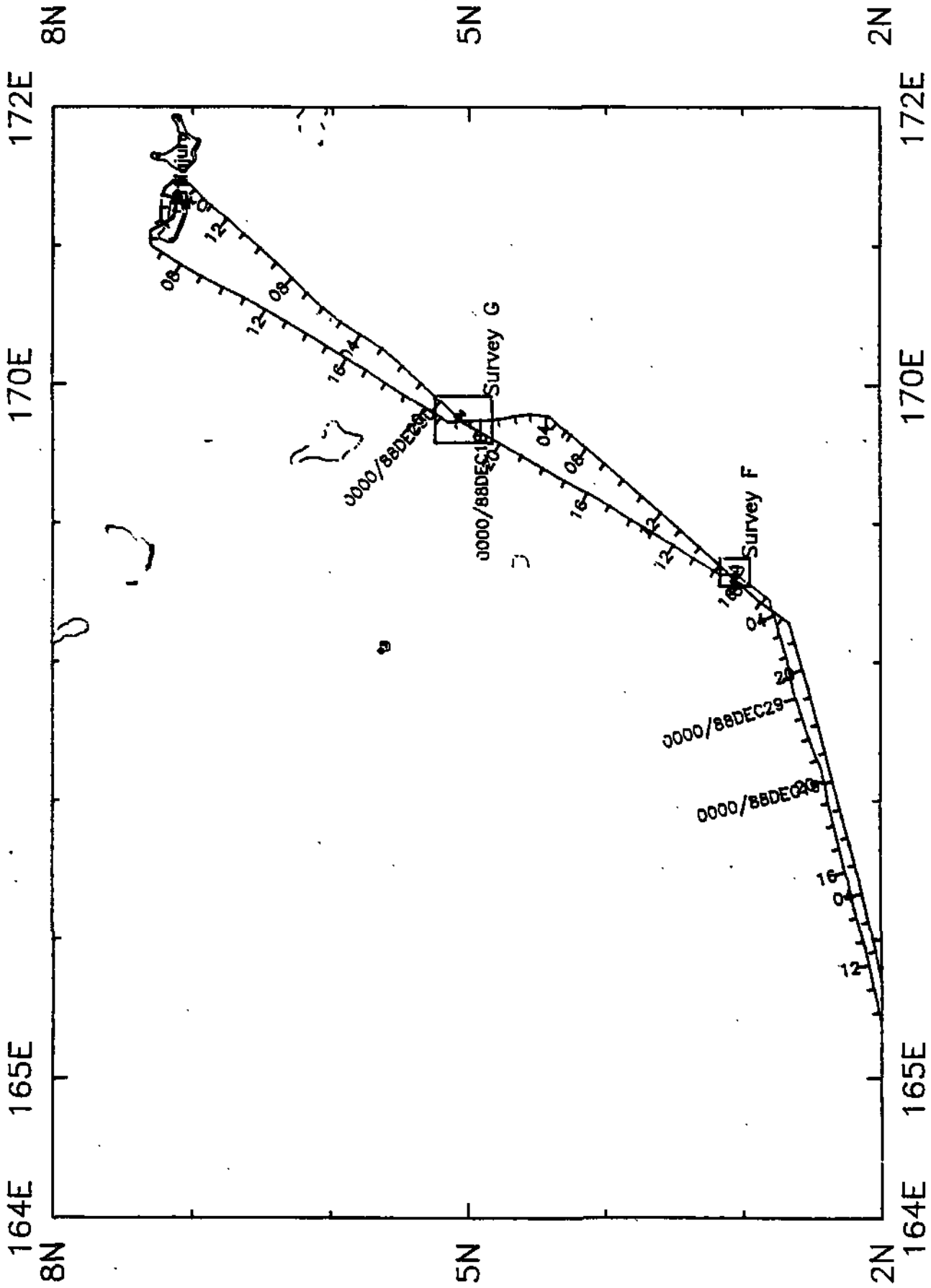
PORTS: Majuro - Majuro, Marshall Islands

DATES: 17 December - 30 December 1988

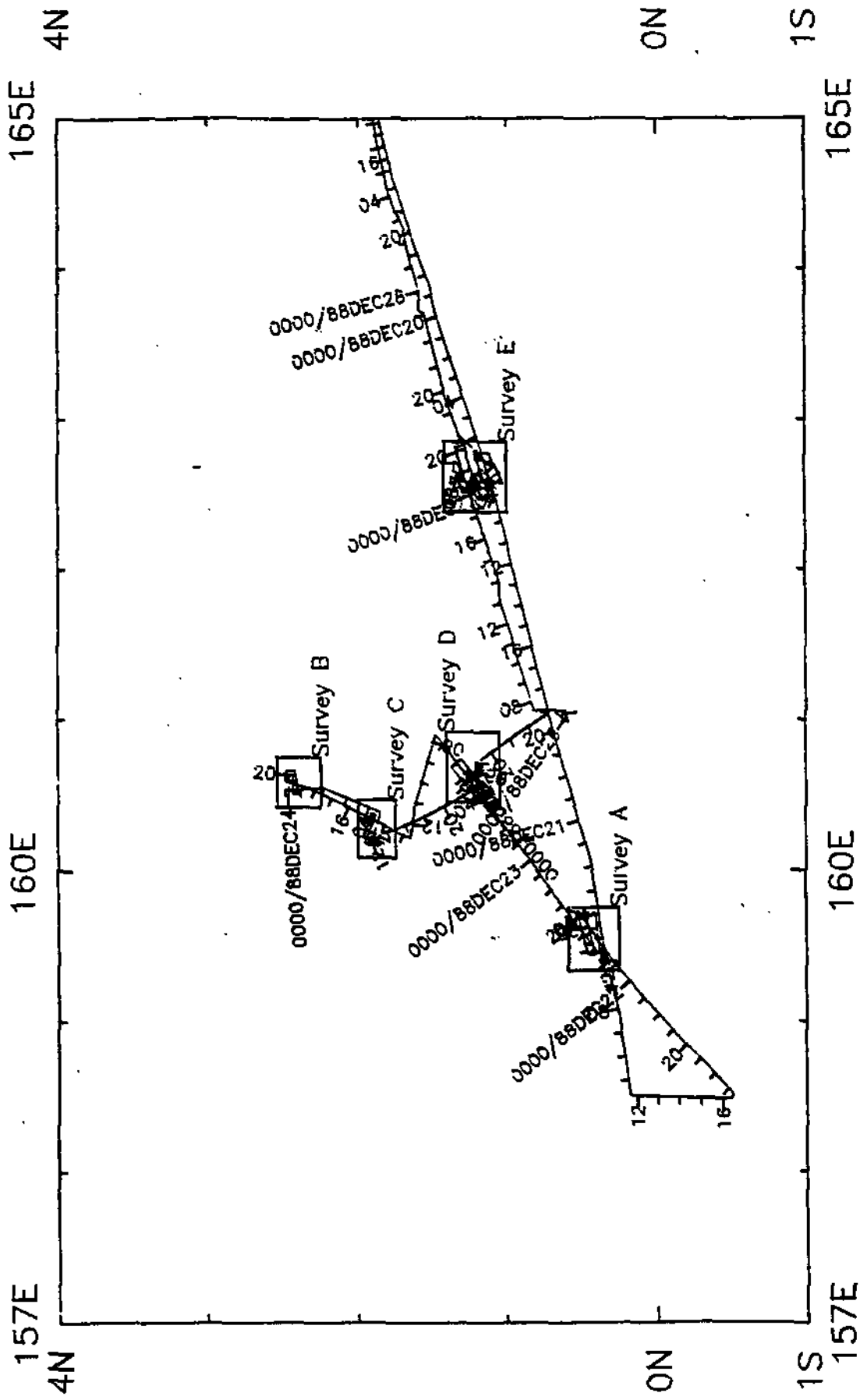
SHIP: R/V T. Washington

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

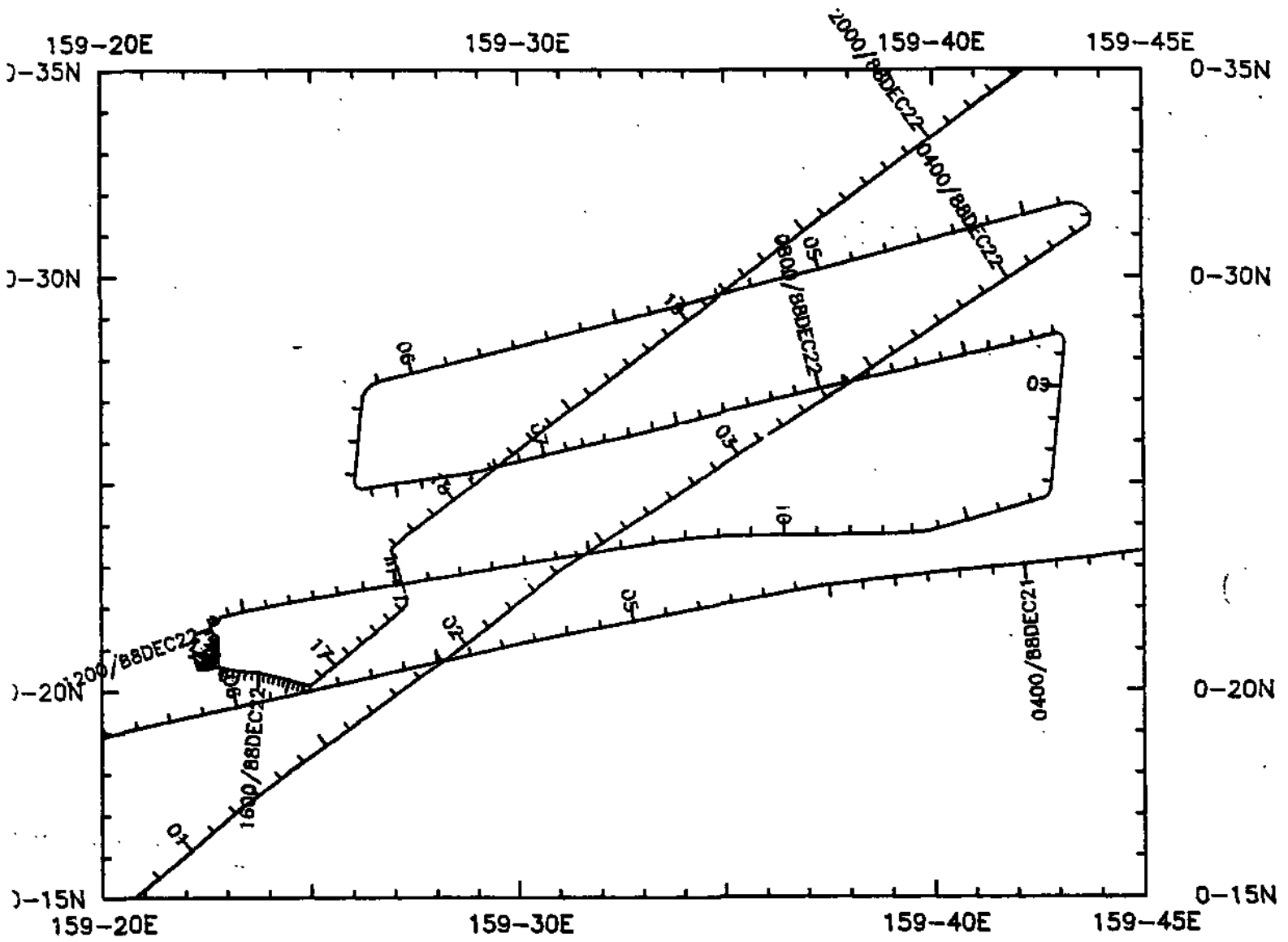
- 1) Cruise - 2791 miles
- 2) Bathymetry - 2751 miles
- 3) Magnetics - 2643 miles
- 4) Seismic Reflection - 2556 miles
- 5) Gravity - collected but not processed
- 6) Sea Beam - 2751 miles



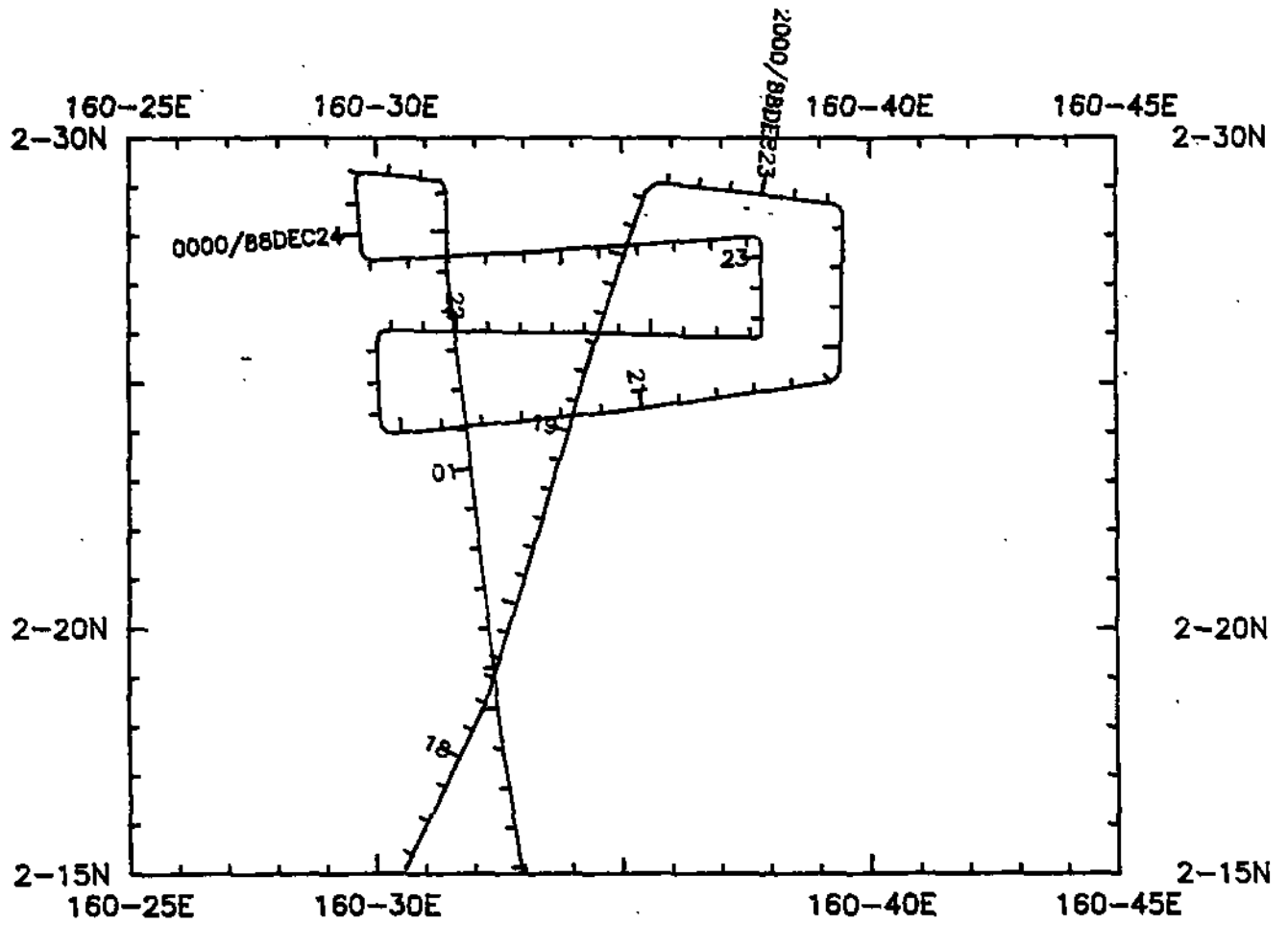
ROUNDABOUT, LEG 11 (RNDB11WT) R/V Thomas Washington
 Track plot #1 of 2



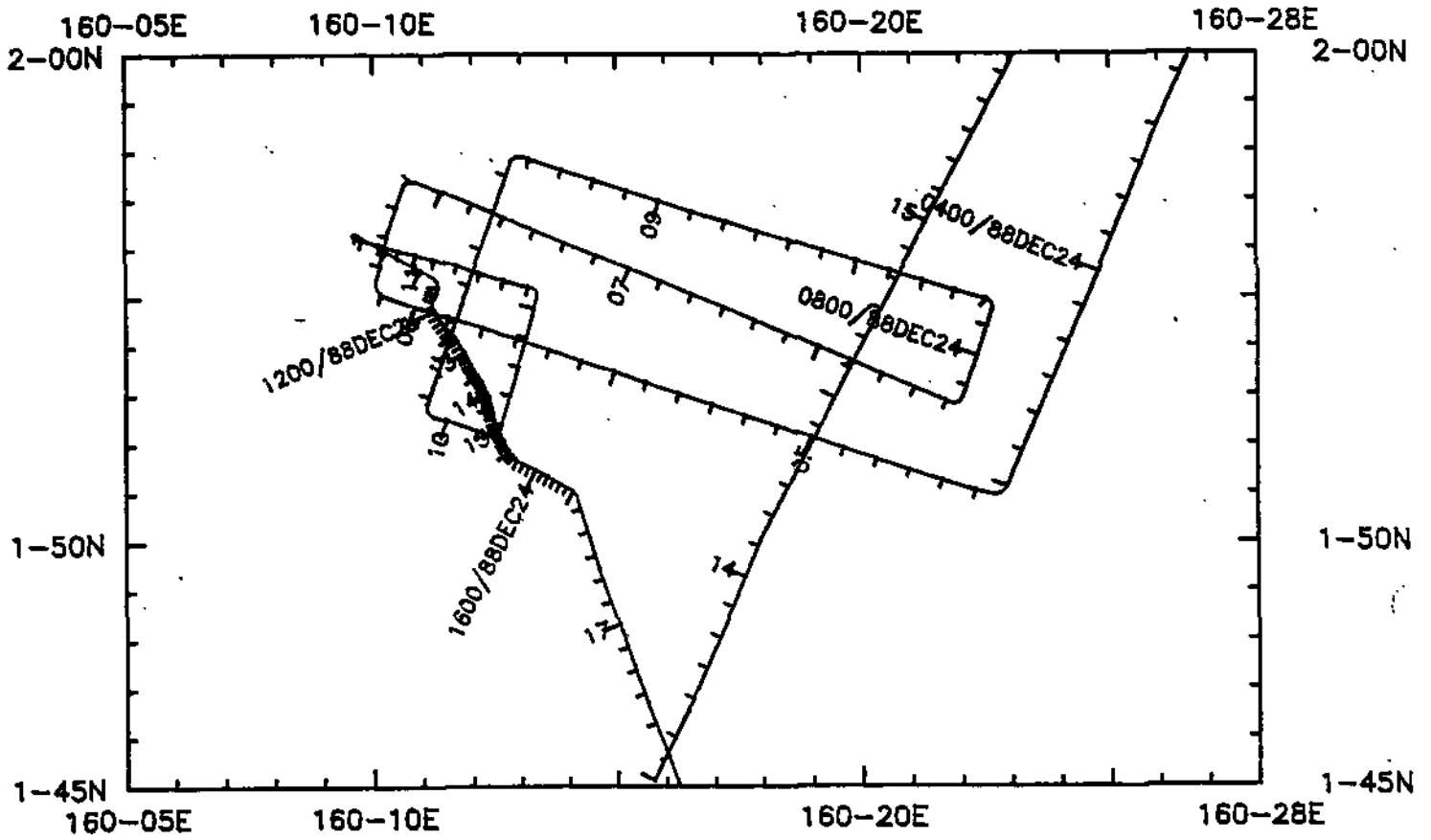
ROUNDABOUT, LEG 11 (RNDB11WT) R/V Thomas Washington
Track plot #2 of 2



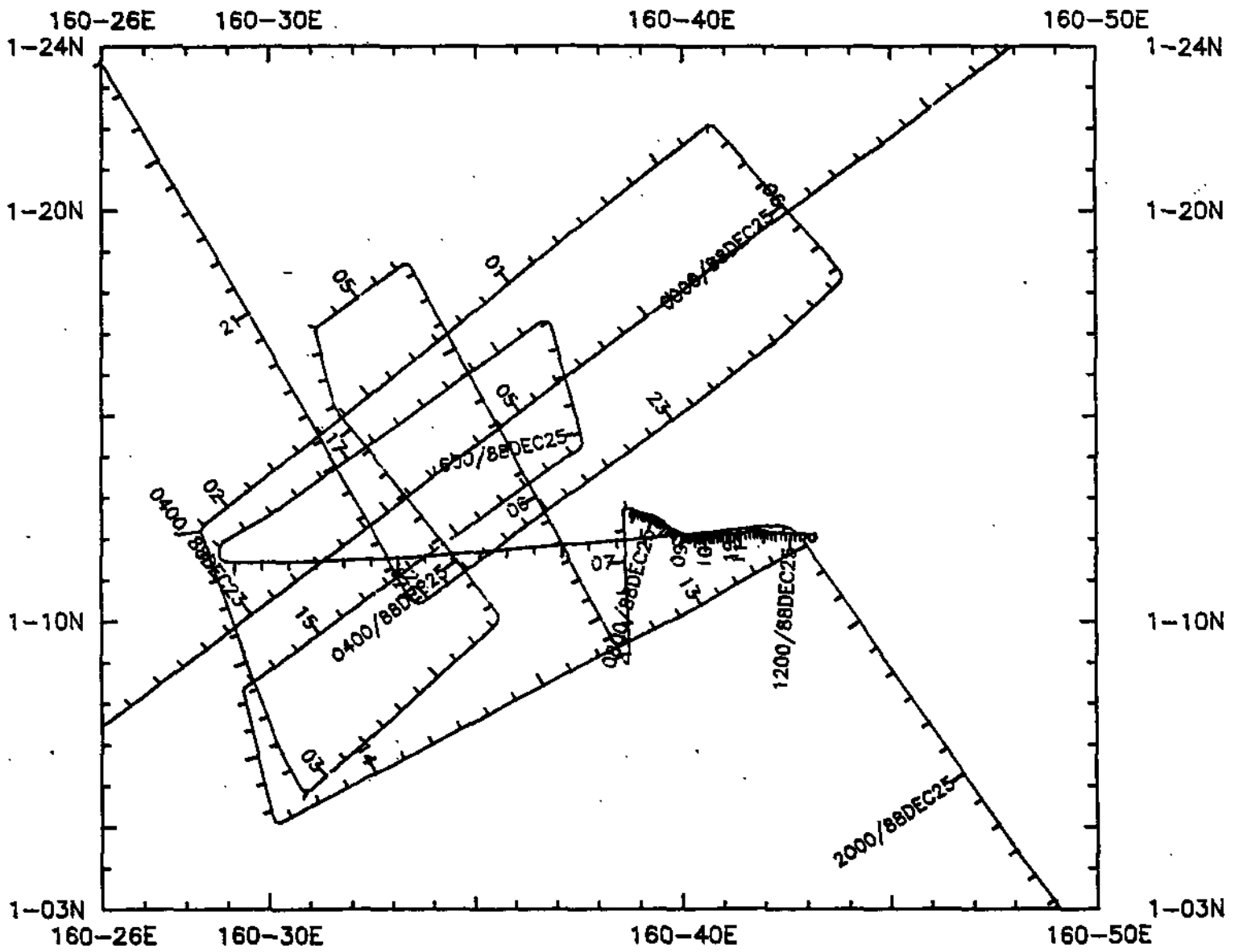
RNDB11WT track plot SURVEY A "Dasher"



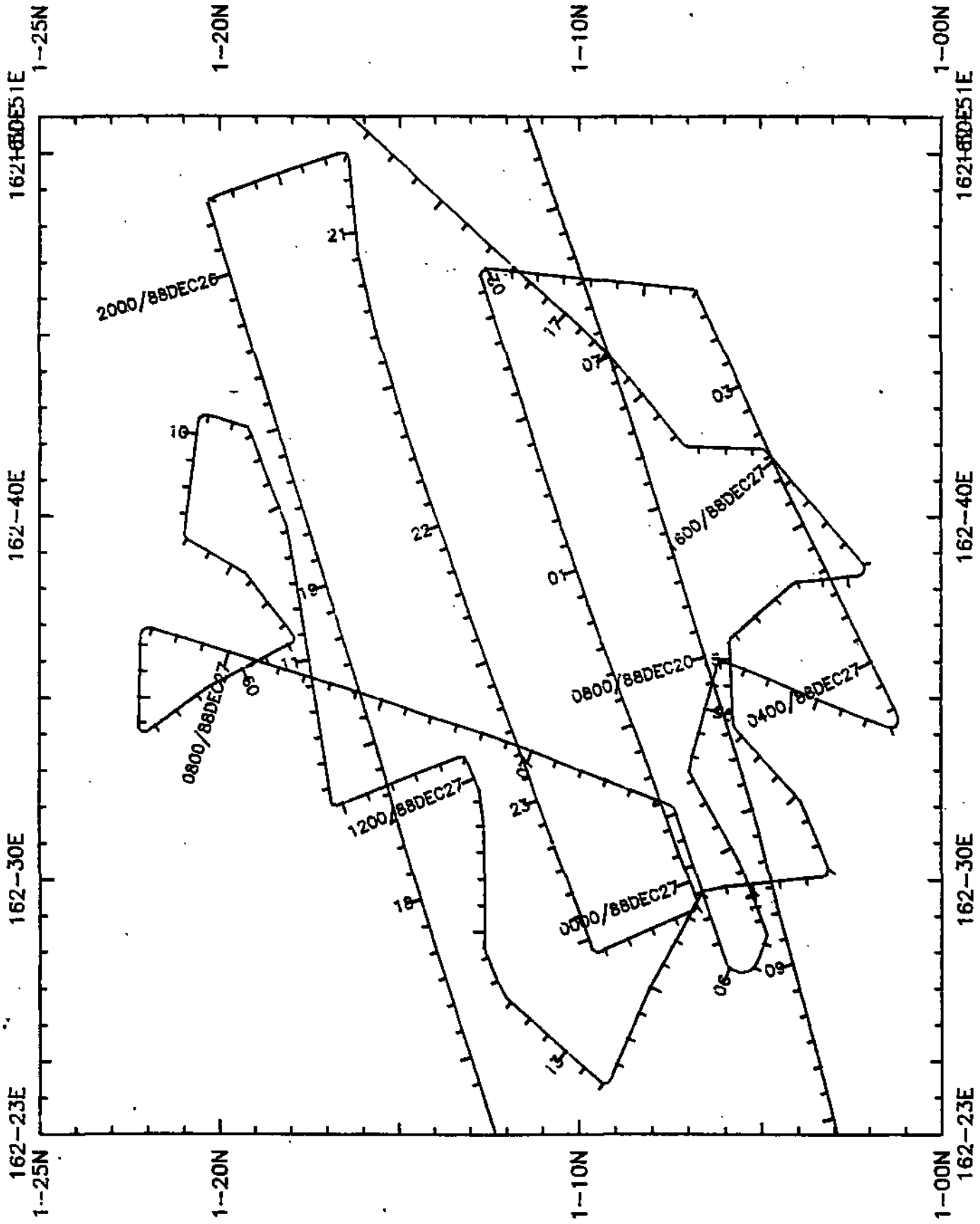
RNDB11WT track plot SURVEY B "Dancer"



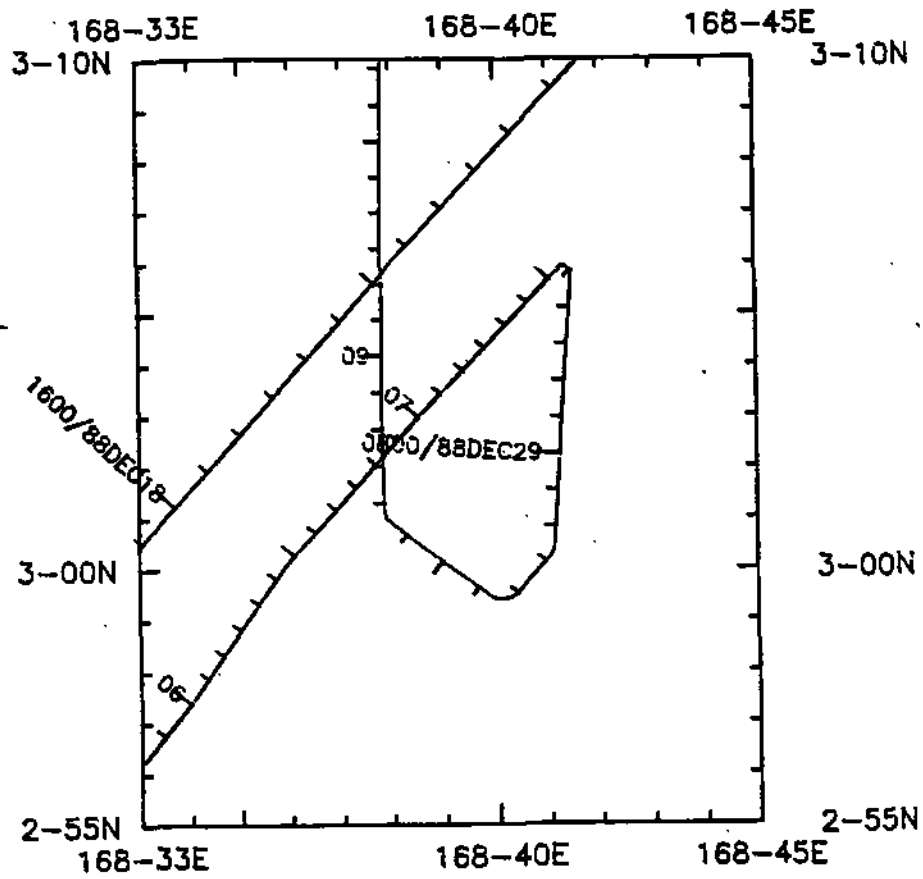
RANDB11WT track plot SURVEY C "Prancer"



RNDB11WT track plot SURVEY D "Vixen"

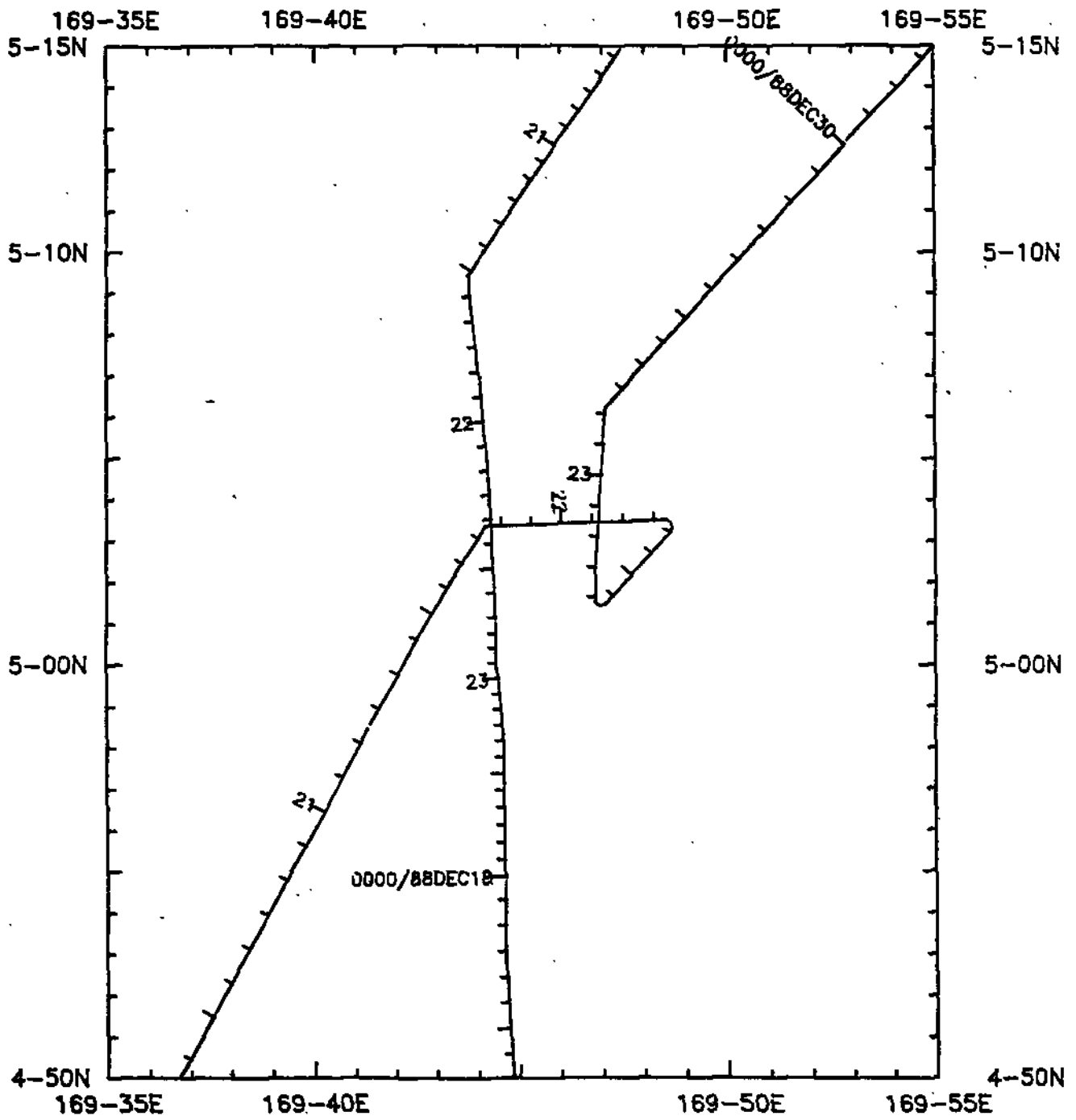


RNDB11WT track plot SURVEY E "Com

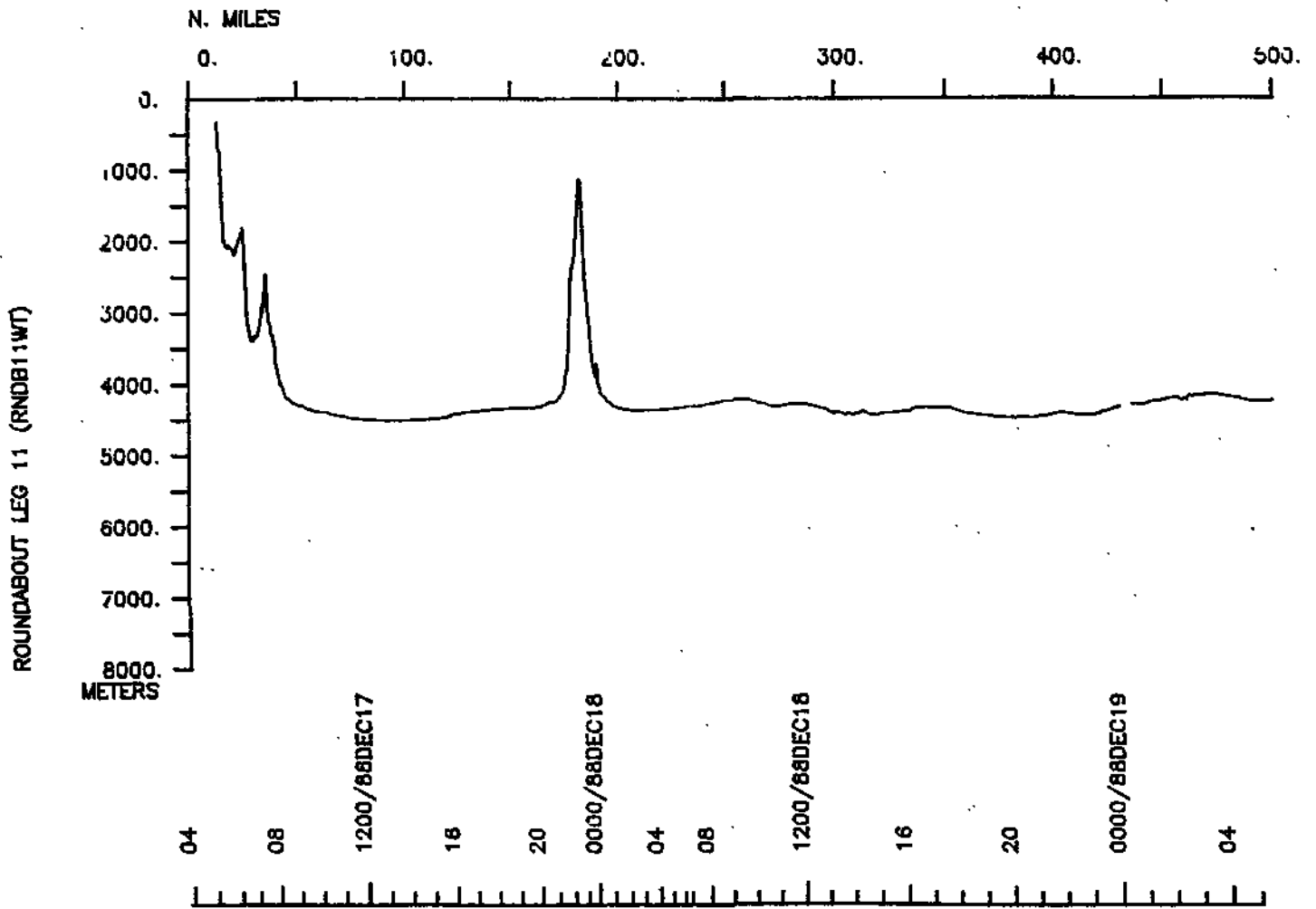
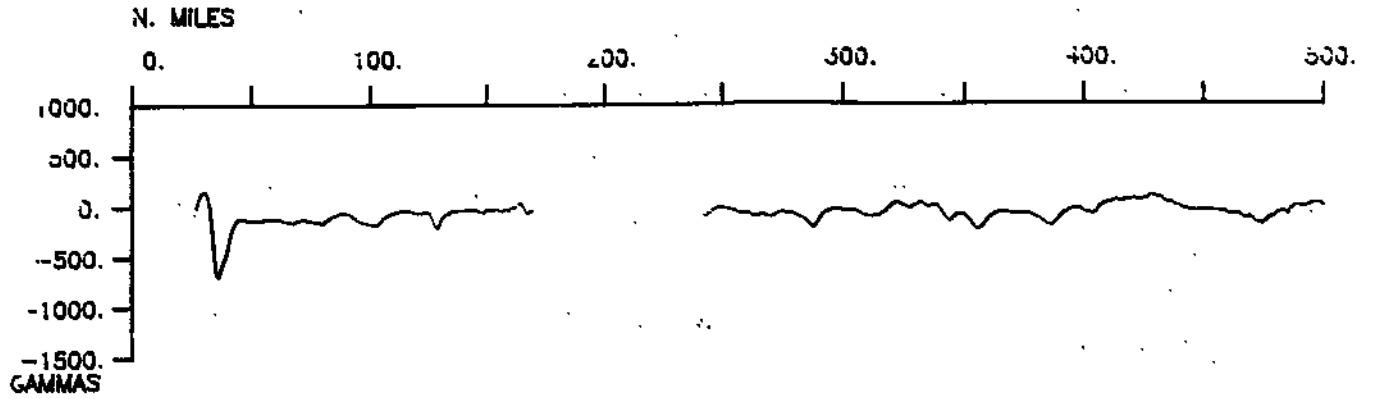


RNDB11WT track plot SURVEY F

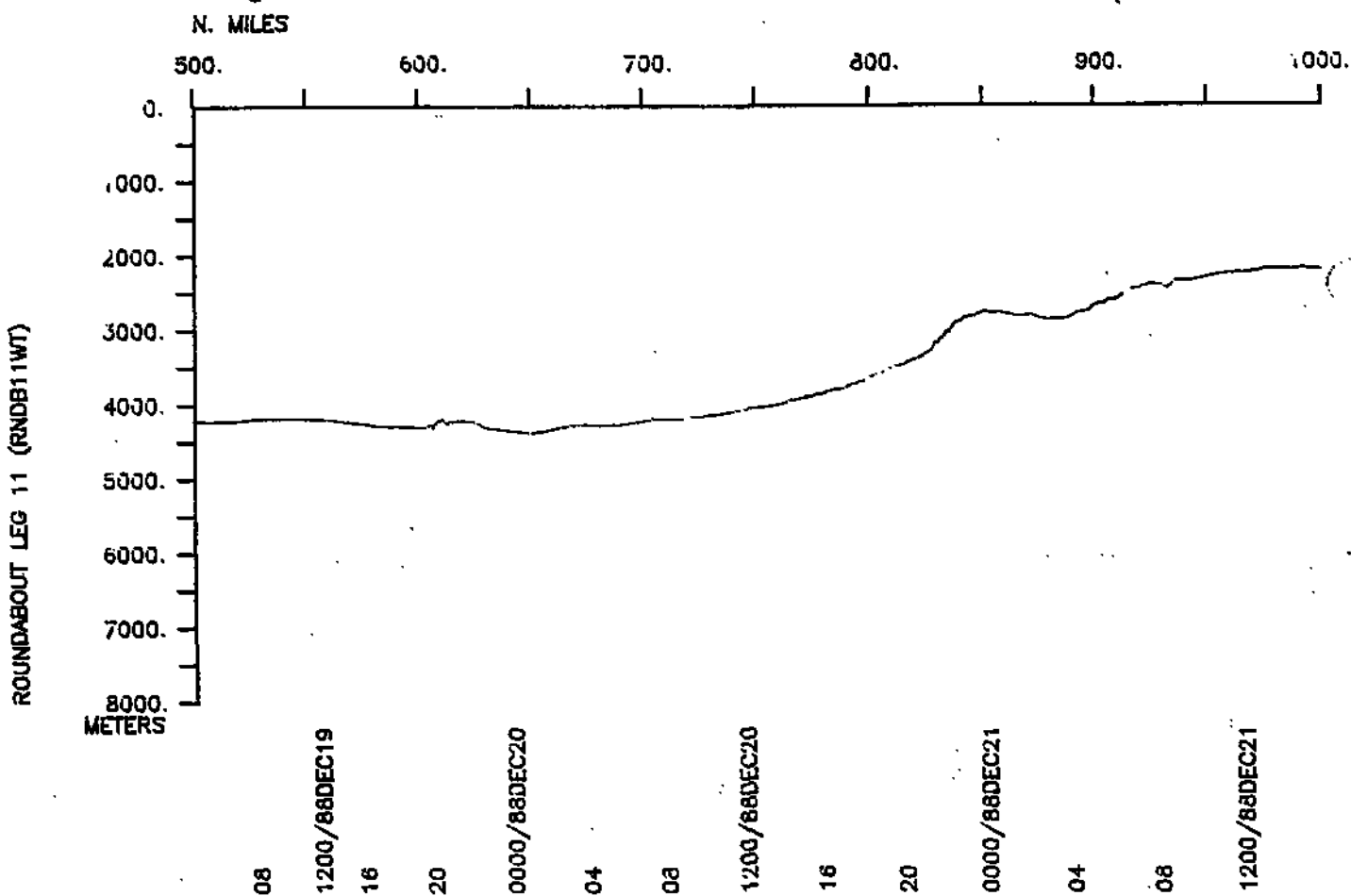
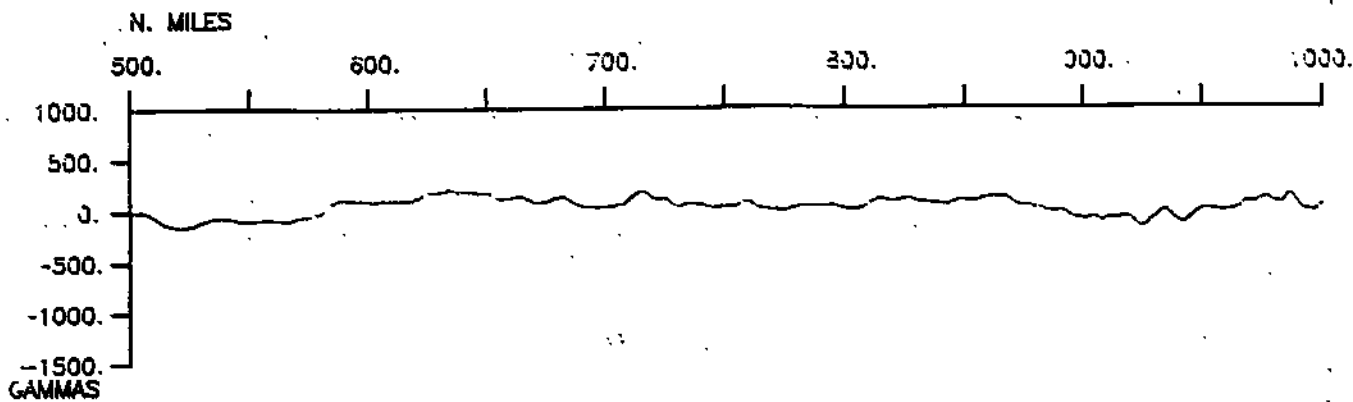
"Cupid"



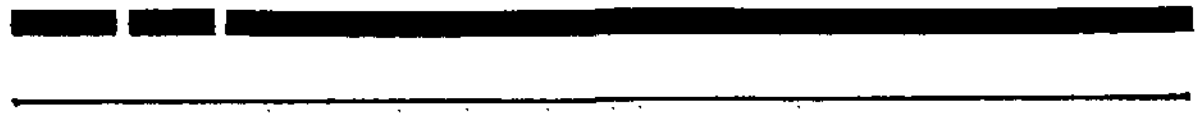
RNDB11WT track plot SURVEY G "Donner"

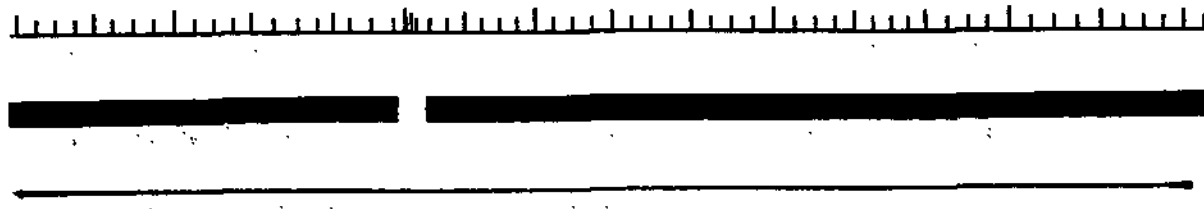
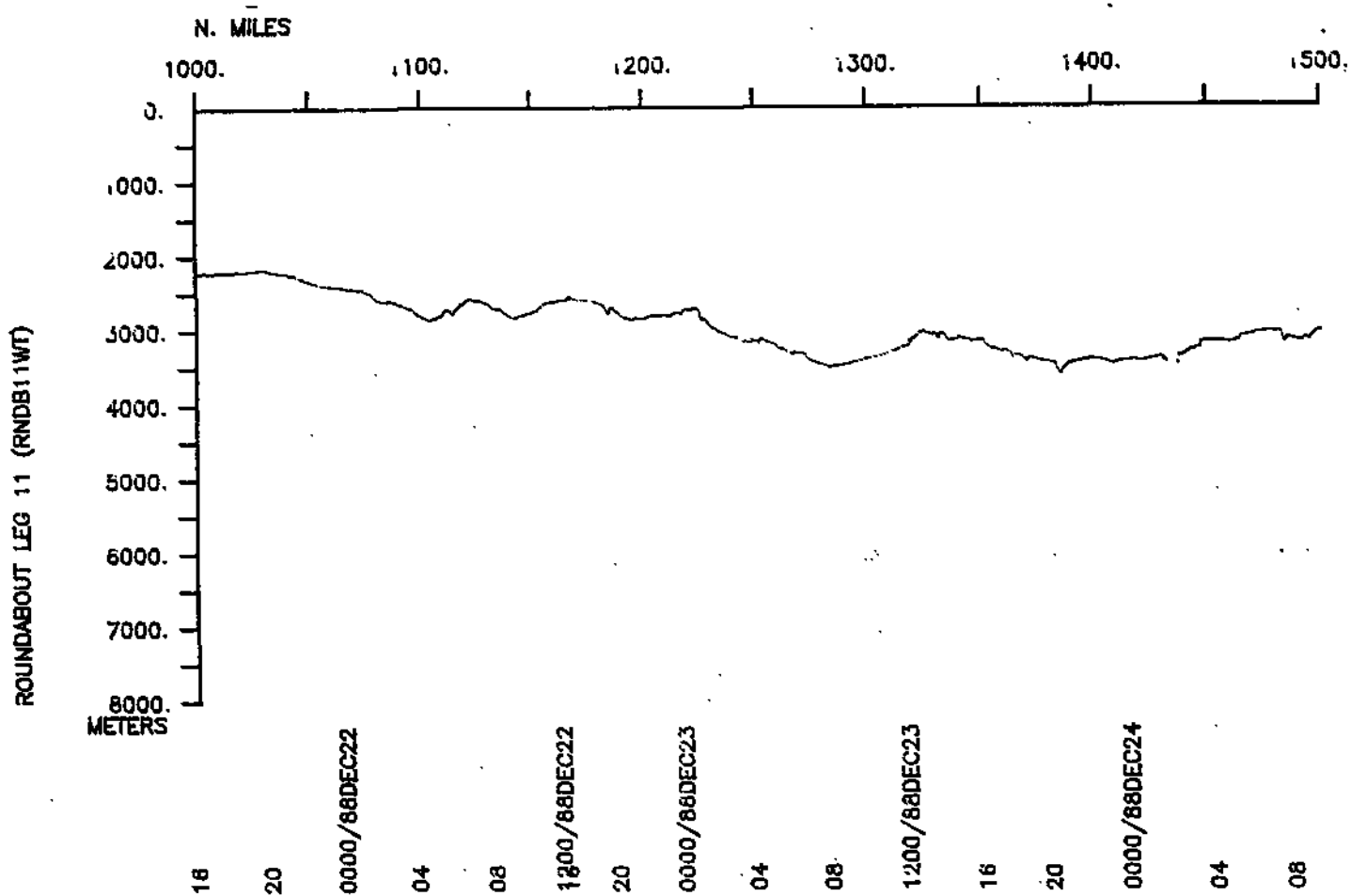
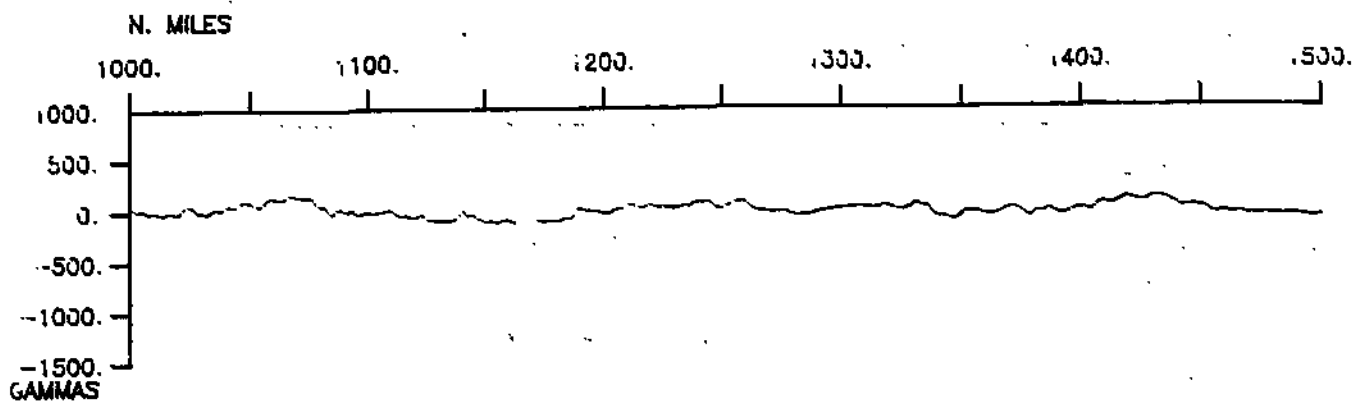


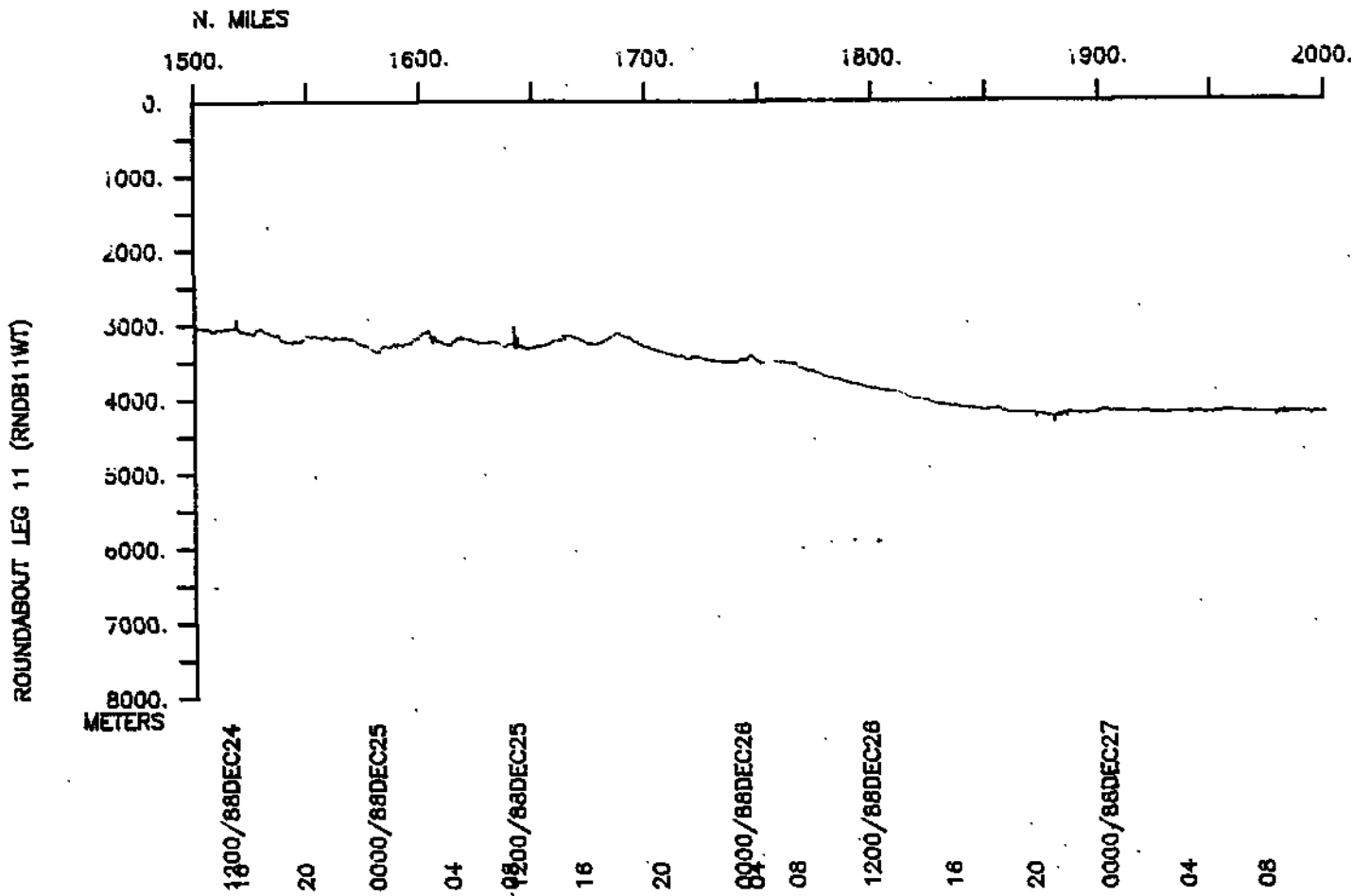
SEABRAM



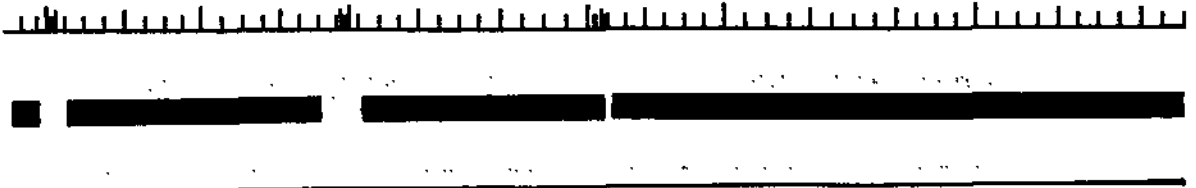
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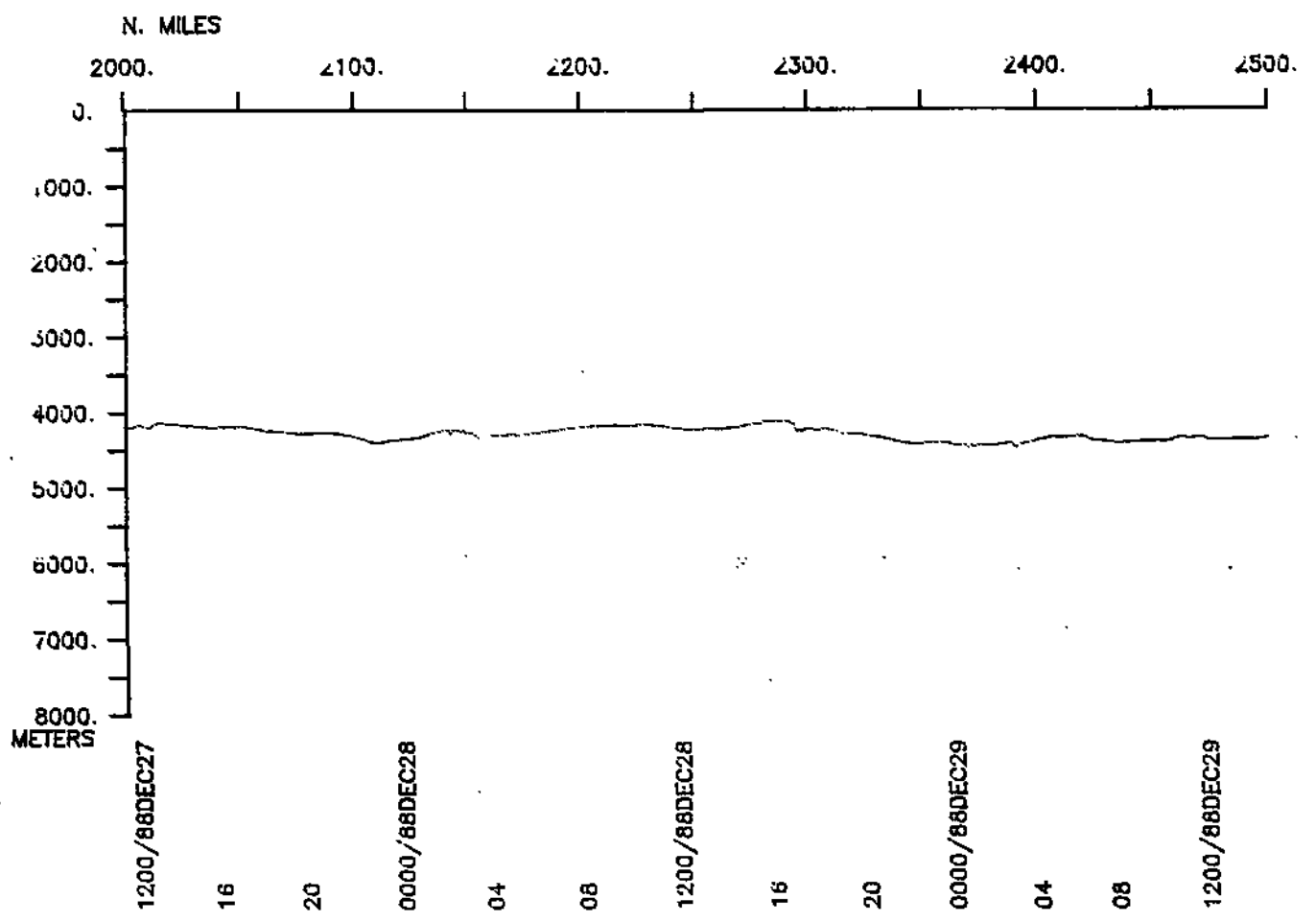
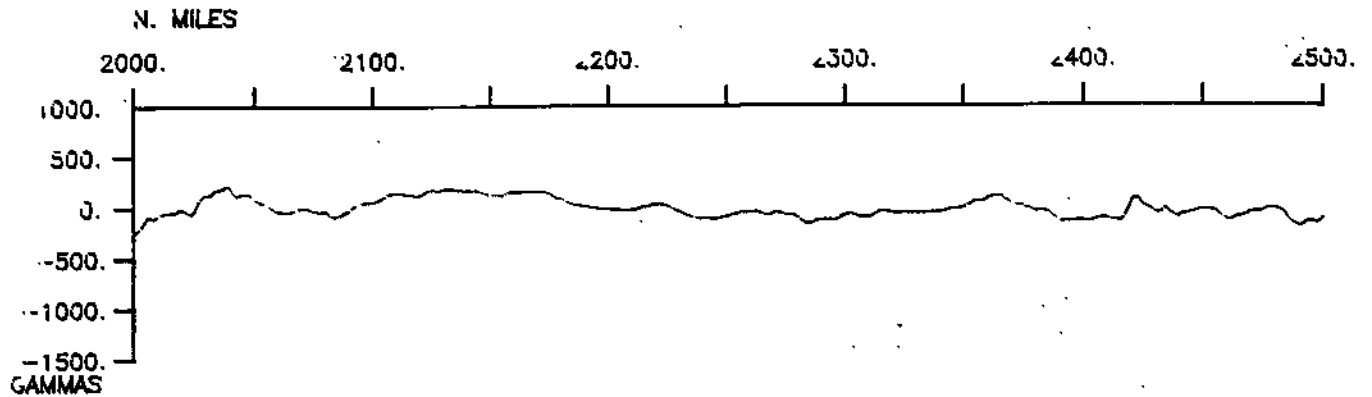




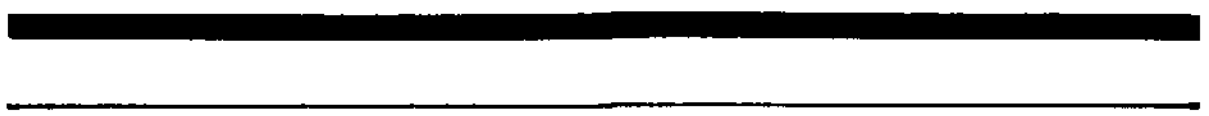


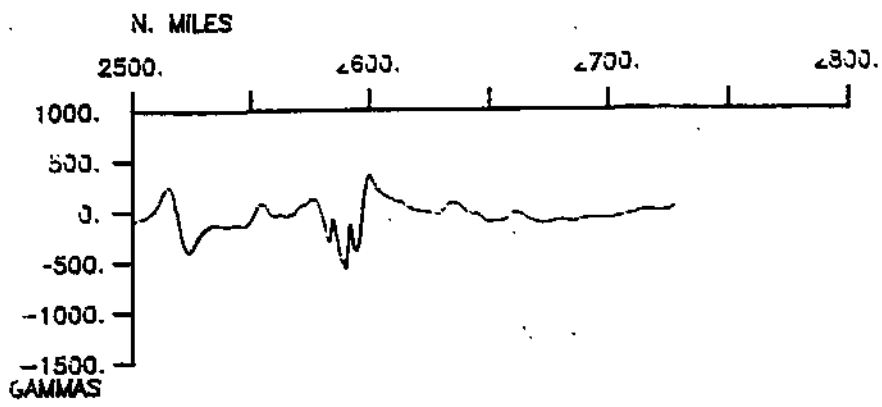
ROUNDABOUT LEG 11 (RNDB11WT)



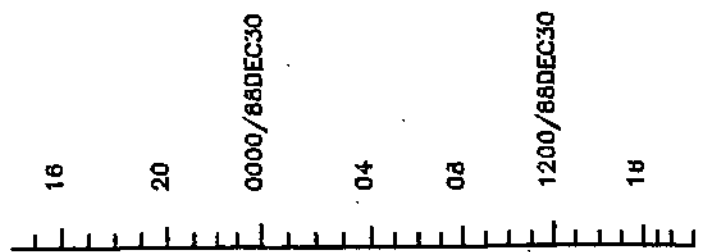
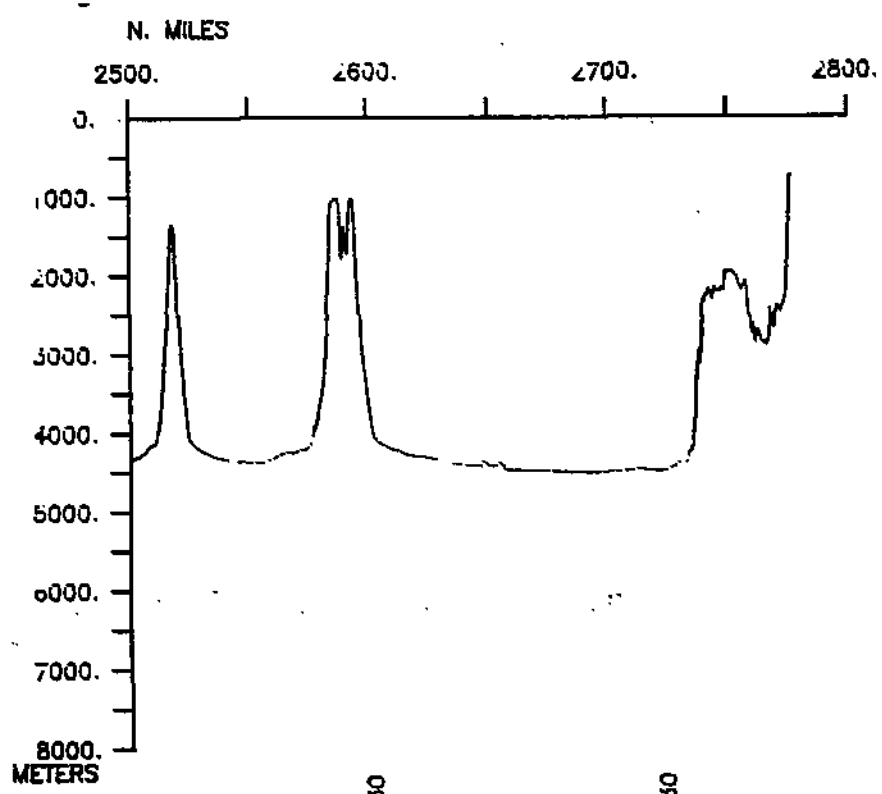


ROUNDABOUT LEG 11 (RNDB11WT)





ROUNDABOUT LEG 11 (RNDB11WT)



S.I.O. SAMPLE INDEX

(Issued March 1989)

ROUNABOUT EXPEDITION

Leg 11

R/V T. Washington

Majuro, Marshall Islands (17 December 1988)
to
Majuro, Marshall Islands (30 December 1988)

Co-Chief Scientists:

E. L. Winterer (SIO)

T. Shipley (U. of Texas)

L. Mayer (Dalhousie Univ.)

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 ***

0200 171288	LGPT B MAJURO, MARSHALL ISLANDS	7-06 N 171-15 E	FRNDB11WT
2000 301288	LGPT E MAJURO, MARSHALL ISLANDS	7-06 N 171-15 E	FRNDB11WT

**** PERSONNEL ***

****	NAME	TITLE	AFFILIATION	CRID ***
PECS GRD	WINTERER, J.	CHIEF SCIENTIST	SCRIPPS INSTITUTION	RNDB11WT
PECS SIX	MAYER, L.	CO-CHIEF SCIENT.	DALHOUSIE U., CANADA	RNDB11WT
PECS SIX	SHIPLEY, T.	CO-CHIEF SCIENT.	U. OF TEXAS, AUSTIN	RNDB11WT
PEST SIX	BASSINOT, F.	GRAD STUDENT	CURIE UNIV., FRANCE	RNDB11WT
PEAT STS	CRAMPTON, P.	AIRGUN TECH.	SCRIPPS INSTITUTION	RNDB11WT
PESP UTA	DEAN, D.	TECHNICIAN	U. OF TEXAS, AUSTIN	RNDB11WT
PEST GRD	LYNCH, M.A.	GRAD STUDENT	SCRIPPS INSTITUTION	RNDB11WT
PESP GRD	MAMMERICKX, J.	GEOMORPHOLOGIST	SCRIPPS INSTITUTION	RNDB11WT
PECT STS	MOE, R.	COMPUTER TECH.	SCRIPPS INSTITUTION	RNDB11WT
PEST DHU	MOSHER, D.	GRAD STUDENT	DALHOUSIE U., CANADA	RNDB11WT
PERT STS	PILLARD, E.	RESIDENT TECH.	SCRIPPS INSTITUTION	RNDB11WT
PEBE STS	STUBER, D.	SEABEAM ENGINEER	SCRIPPS INSTITUTION	RNDB11WT
ST GRD	VAN WAASBERGEN, R.	GRAD STUDENT	SCRIPPS INSTITUTION	RNDB11WT

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

****UNDERWAY DATA CURATOR - S. M. SMITH EXT. 42752

**** LOG BOOKS ***

0500 171288	LBUW B UNDERWAY WATCH LOG	GDC	7-110N	171-101E	sRNDB11WT
1818 301288	LBUW E UNDERWAY WATCH LOG	GDC	7-120N	171-094E	sRNDB11WT

**** THERMOGRAPH RECORDINGS ***

500 171288	TCRG B THERMOGRAPHS 1-4	GDC	7-110N	171-101E	sRNDB11WT
00 301288	TCRG E THERMOGRAPHS 1-4	GDC	7-051N	171-220E	sRNDB11WT

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

*** ECHOSOUNDER RECORDS ***

0500	171288			MBMR	B SEABEAM MONITOR R-01	GDC	7-110N	171-101E	sRNDB11WT
1940	261288			MBMR	E SEABEAM MONITOR R-01	GDC	1-188N	162-438E	sRNDB11WT
1943	261288			MBMR	B SEABEAM MONITOR R-02	GDC	1-190N	162-443E	sRNDB11WT
1818	301288			MBMR	E SEABEAM MONITOR R-02	GDC	7-120N	171-094E	sRNDB11WT
0504	171288			DPR3	B 3.5 KHZ R-01	GDC	7-116N	171-097E	sRNDB11WT
1100	191288			DPR3	E 3.5 KHZ R-01	GDC	1-534N	165-076E	sRNDB11WT
1103	191288			DPR3	B 3.5 KHZ R-02	GDC	1-533N	165-073E	sRNDB11WT
1734	221288			DPR3	E 3.5 KHZ R-02	GDC	0-226N	159-272E	sRNDB11WT
1737	221288			DPR3	B 3.5 KHZ R-03	GDC	0-228N	159-271E	sRNDB11WT
0852	251288			DPR3	E 3.5 KHZ R-03	GDC	1-122N	160-399E	sRNDB11WT
0945	251288			DPR3	B 3.5 KHZ R-04	GDC	1-121N	160-404E	sRNDB11WT
0417	281288			DPR3	E 3.5 KHZ R-04	GDC	1-480N	164-311E	sRNDB11WT
0419	281288			DPR3	B 3.5 KHZ R-05	GDC	1-481N	164-314E	sRNDB11WT
2000	301288			DPR3	E 3.5 KHZ R-05	GDC	7-051N	171-220E	sRNDB11WT

*** SEABEAM ARCHIVE SWATH BOOKS ***

0500	171288			MBSB	B SB ARC SWATH BK 01	GDC	7-110N	171-101E	sRNDB11WT
0558	191288			MBSB	E SB ARC SWATH BK 01	GDC	2-026N	165-551E	sRNDB11WT
0600	191288			MBSB	B SB ARC SWATH BK 02	GDC	2-025N	165-547E	sRNDB11WT
1542	211288			MBSB	E SB ARC SWATH BK 02	GDC	0-233S	158-291E	sRNDB11WT
1542	211288			MBSB	B SB ARC SWATH BK 03	GDC	0-233S	158-291E	sRNDB11WT
0340	241288			MBSB	E SB ARC SWATH BK 03	GDC	1-585N	160-260E	sRNDB11WT
0340	241288			MBSB	B SB ARC SWATH BK 04	GDC	1-585N	160-260E	sRNDB11WT
1804	261288			MBSB	E SB ARC SWATH BK 04	GDC	1-146N	162-300E	sRNDB11WT
1804	261288			MBSB	B SB ARC SWATH BK 05	GDC	1-146N	162-300E	sRNDB11WT
2018	281288			MBSB	E SB ARC SWATH BK 05	GDC	2-251N	167-112E	sRNDB11WT
2018	281288			MBSB	B SB ARC SWATH BK 06	GDC	2-251N	167-112E	sRNDB11WT
1818	301288			MBSB	E SB ARC SWATH BK 06	GDC	7-120N	171-094E	sRNDB11WT

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

0614	171288			SPRF B	SEISMIC FAST R-01	GDC	7-176N	171-014E	sRNDB11WT
0015	201288			SPRF E	SEISMIC FAST R-01	GDC	1-271N	163-387E	sRNDB11WT
0018	201288			SPRF B	SEISMIC FAST R-02	GDC	1-270N	163-383E	sRNDB11WT
0943	211288			SPRF E	SEISMIC FAST R-02	GDC	0-129N	158-481E	sRNDB11WT
0944	211288			SPRF B	SEISMIC FAST R-03	GDC	0-129N	158-480E	sRNDB11WT
1050	241288			SPRF E	SEISMIC FAST R-03	GDC	1-557N	160-117E	sRNDB11WT
1710	241288			SPRF B	SEISMIC FAST R-04	GDC	1-474N	160-154E	sRNDB11WT
0335	301288			SPRF E	SEISMIC FAST R-04	GDC	5-436N	170-190E	sRNDB11WT
0338	301288			SPRF B	SEISMIC FAST R-05	GDC	5-441N	170-193E	sRNDB11WT
1204	301288			SPRF E	SEISMIC FAST R-05	GDC	6-459N	171-116E	sRNDB11WT
0014	171288			SPRS B	SEISMIC SLOW R-01	GDC	7-176N	171-014E	sRNDB11WT
0019	201288			SPRS E	SEISMIC SLOW R-01	GDC	1-269N	163-381E	sRNDB11WT
0021	201288			SPRS B	SEISMIC SLOW R-02	GDC	1-268N	163-379E	sRNDB11WT
1050	241288			SPRS E	SEISMIC SLOW R-02	GDC	1-557N	160-117E	sRNDB11WT
1710	241288			SPRS B	SEISMIC SLOW R-03	GDC	1-474N	160-154E	sRNDB11WT
1420	261288			SPRS E	SEISMIC SLOW R-03	GDC	1-041N	161-580E	sRNDB11WT
1511	261288			SPRS B	SEISMIC SLOW R-04	GDC	1-064N	162-052E	sRNDB11WT
1204	301288			SPRS E	SEISMIC SLOW R-04	GDC	6-459N	171-116E	sRNDB11WT

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

0605	171288			MGRA B	MAGNETICS R-01	GDC	7-176N	171-023E	sRNDB11WT
2305	201288			MGRA E	MAGNETICS R-01	GDC	0-333N	160-279E	sRNDB11WT
2310	201288			MGRA B	MAGNETICS R-02	GDC	0-331N	160-271E	sRNDB11WT
1204	301288			MGRA E	MAGNETICS R-02	GDC	6-459N	171-116E	sRNDB11WT

#GMT #TIME	DDMMYY DATE	LOC T TIME Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
*** SEABEAM TRANSIT LINE AND SURVEYS ***								
0500	121288		MBTL B	SEABEAM TRANSIT	GDC	7-057N	171-214E	sRNDB11WT
0100	221288		MBTL E	LINE #01	GDC	0-161N	159-221E	sRNDB11WT
0100	221288		MBSV B	SEABEAM SURVEY	GDC	00-350N	159-440E	fRNDB11WT
2000	221288		MBSV E	#A "DASHER"	GDC	00-150N	159-200E	fRNDB11WT
2000	221288		MBTL B	SEABEAM TRANSIT	GDC	0-333N	159-399E	sRNDB11WT
1900	231288		MBTL E	LINE #02	GDC	2-240N	160-339E	sRNDB11WT
1900	231288		MBSV B	SEABEAM SURVEY	GDC	02-300N	160-400E	fRNDB11WT
0100	241288		MBSV E	#B "DANCER"	GDC	02-190N	160-290E	fRNDB11WT
0100	241288		MBTL B	SEABEAM TRANSIT	GDC	2-233N	160-319E	sRNDB11WT
0400	241288		MBTL E	LINE #03	GDC	1-555N	160-248E	sRNDB11WT
0400	241288		MBSV B	SEABEAM SURVEY	GDC	01-480N	160-250E	fRNDB11WT
1100	241288		MBSV E	#C "PRANCER"	GDC	01-500N	160-100E	fRNDB11WT
1100	241288		MBTL B	SEABEAM TRANSIT	GDC	1-559N	160-109E	sRNDB11WT
1900	241288		MBTL E	LINE #04	GDC	1-329N	160-213E	sRNDB11WT
0340	231288		MBSV B	SEABEAM SURVEY	GDC	01-220N	160-450E	fRNDB11WT
1900	251288		MBSV E	#D "VIXEN"	GDC	01-050N	160-280E	fRNDB11WT
1900	251288		MBTL B	SEABEAM TRANSIT	GDC	1-122N	160-411E	sRNDB11WT
1720	261288		MBTL E	LINE #05	GDC	1-125N	162-237E	sRNDB11WT
1720	231288		MBSV B	SEABEAM SURVEY	GDC	01-250N	162-510E	fRNDB11WT
1800	271288		MBSV E	#E "COMET"	GDC	01-000N	160-230E	fRNDB11WT
1800	271288		MBTL B	SEABEAM TRANSIT	GDC	1-180N	162-524E	sRNDB11WT
0320	291288		MBTL E	LINE #06	GDC	2-445N	168-141E	sRNDB11WT
0320	291288		MBSV B	SEABEAM SURVEY	GDC	03-300N	169-050E	fRNDB11WT
1200	291288		MBSV E	#F "CUPID"	GDC	02-400N	168-150E	fRNDB11WT
1200	291288		MBTL B	SEABEAM TRANSIT	GDC	3-302N	168-506E	sRNDB11WT
1925	291288		MBTL E	LINE #07	GDC	4-410N	169-316E	sRNDB11WT
1925	291288		MBSV B	SEABEAM SURVEY	GDC	05-300N	170-100E	fRNDB11WT
0200	301288		MBSV E	#G "DONNER"	GDC	04-400N	169-200E	fRNDB11WT
0200	301288		MBTL B	SEABEAM TRANSIT	GDC	5-291N	170-080E	sRNDB11WT
1818	301288		MBTL E	LINE #08	GDC	7-120N	171-094E	sRNDB11WT

#GMT #TIME #	DDMMYY DATE	LOC TIME Z	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
*** CORES ***									
1344	221288			COPS	PC-#74	2547M	GRD	0-206N 159-224E	sRNDB11WT
1344	221288			COGV	GC-#74	2547M	GRD	0-206N 159-224E	sRNDB11WT
1359	241288			COPS	PC-#75	3078M	GRD	1-531N 160-123E	sRNDB11WT
1359	241288			COGV X	GC-#75	3078M	GRD	1-531N 160-123E	sRNDB11WT
0924	251288			COPS	PC-#76	3290M	GRD	1-121N 160-402E	sRNDB11WT
0924	251288			COGV	GC-#76	3290M	GRD	1-121N 160-402E	sRNDB11WT
0242	261288			COPS	PC-#77	3490M	GRD	0-356N 161-010E	sRNDB11WT
0242	261288			COGV	GC-#77	3490M	GRD	0-356N 161-010E	sRNDB11WT
*** EXPENDABLE BATHY THERMOGRAPHS ***									
0435	181288			BTXP	RNDB11 XBT-01		GDC	4-232N 169-447E	sRNDB11WT
1406	221288			BTXP	RNDB11 XBT-02		GDC	0-205N 159-223E	sRNDB11WT
0955	251288			BTXP	RNDB11 XBT-03		GDC	1-121N 160-405E	sRNDB11WT
*** SEABEAM SOUND VELOCITY PROFILES ***									
0500	171288			MBVP B	SEABEAM SOUND		GDC	7-110N 171-101E	sRNDB11WT
2110	221288			MBVP E	VELOCITY PROFILE-01		GDC	0-383N 159-467E	sRNDB11WT
2110	221288			MBVP B	SEABEAM SOUND		GDC	0-383N 159-467E	sRNDB11WT
1818	301288			MBVP E	VELOCITY PROFILE-02		GDC	7-120N 171-094E	sRNDB11WT
*** CONTINUOUS COMPUTER-RECORDER GRAVITY ***									
0500	171288			GVCR B	GRAVITY RECORD		GDC	7-110N 171-101E	sRNDB11WT
2000	301288			GVCR E	COMPUTER LOGGED		GDC	7-051N 171-220E	sRNDB11WT
#	END SAMPLE INDEX								