INFORMAL REPORT AND INDEX OF

NAVIGATION, DEPTH, MAGNETIC, GRAVITY AND SUBBOTTOM PROFILER DATA (Issued August 1988)

ROUNDABOUT EXPEDITION

LEG 1

San Diego, California (29 April 1988)

Honolulu, Hawaii (15 May 1988)

R/V Washington

Co-Chief Scientists:

J. Hildebrand (Scripps Institution of Oceanography)

A. Chave (AT&T Bell Laboratories)

Resident Marine Technician - J. Boaz

Data Collection and Processing Funded by ONR-0005/0010 NSF Grant Number OCE87-02835 and UC General Ship Funds

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

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:

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.

 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&2/3 degree beam width) depths retrieved at one minute intervals of ship time.

 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.

Microfilm or Xerox copies of:

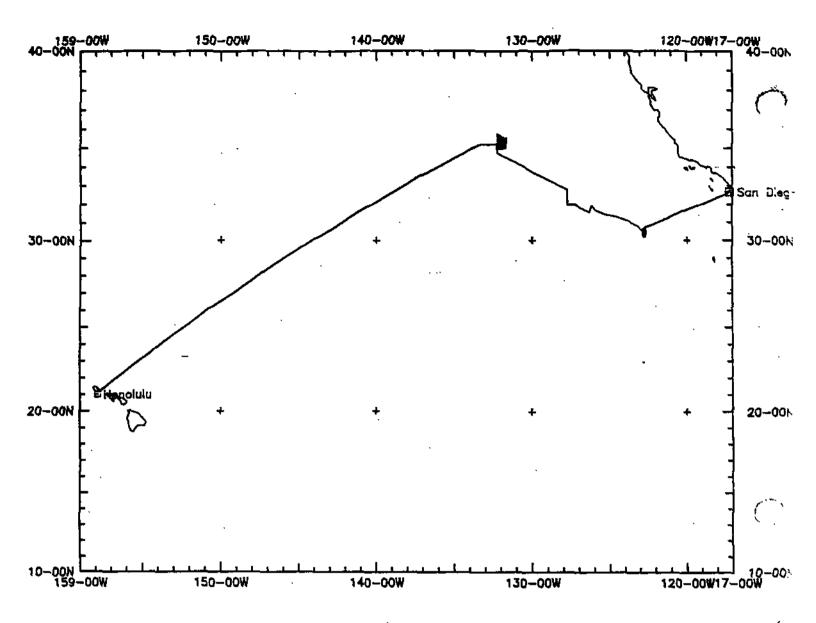
- a. Echosounder records 12 and 3.5 kHz frequency
- b. Subbottom profiler records
- c. Magnetometer records
- d. Underway data log book

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, Leg 1 (RNDB01WT) Scale: 0.1632"/deg longitude

ROUNDABOUT EXPEDITION LEG 1

CO-CHIEF SCIENTISTS:

J. Hildebrand (Scripps Institution of Oceanography)

A. Chave (AT&T Bell Laboratories)

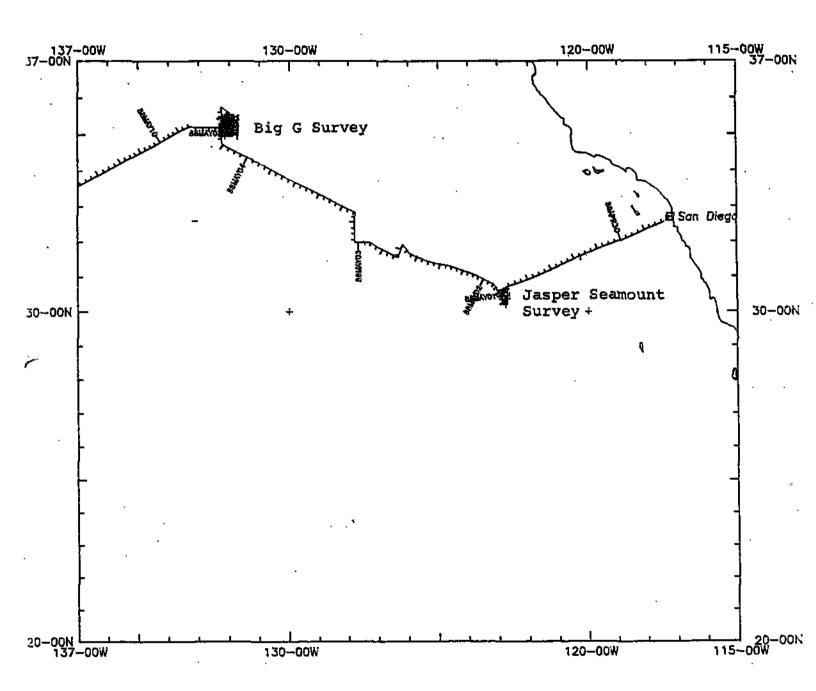
PORTS: San Diego, Calif. - Honolulu, Hawaii

DATES: 29 April - 15 May 1988

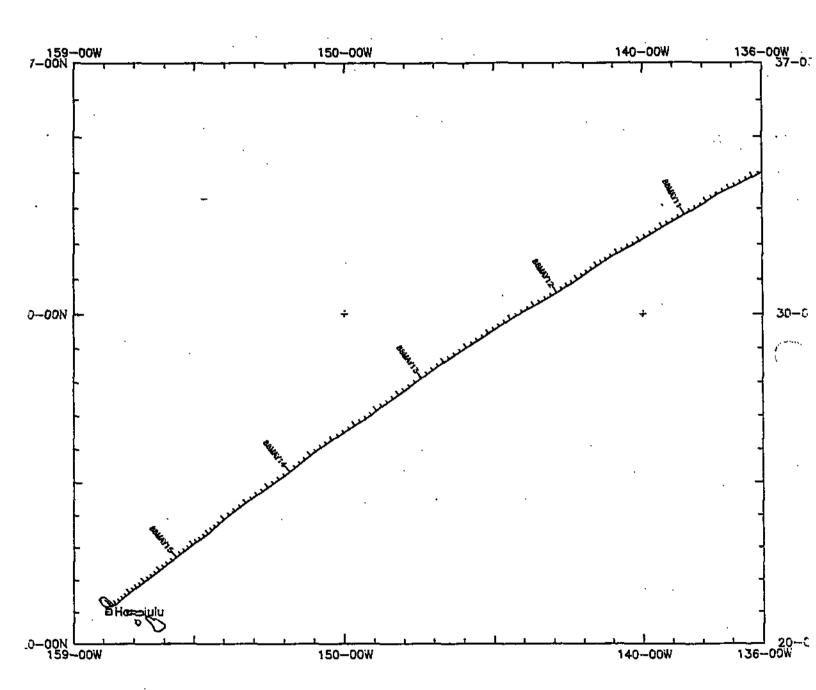
SHIP: R/V T. Washington

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

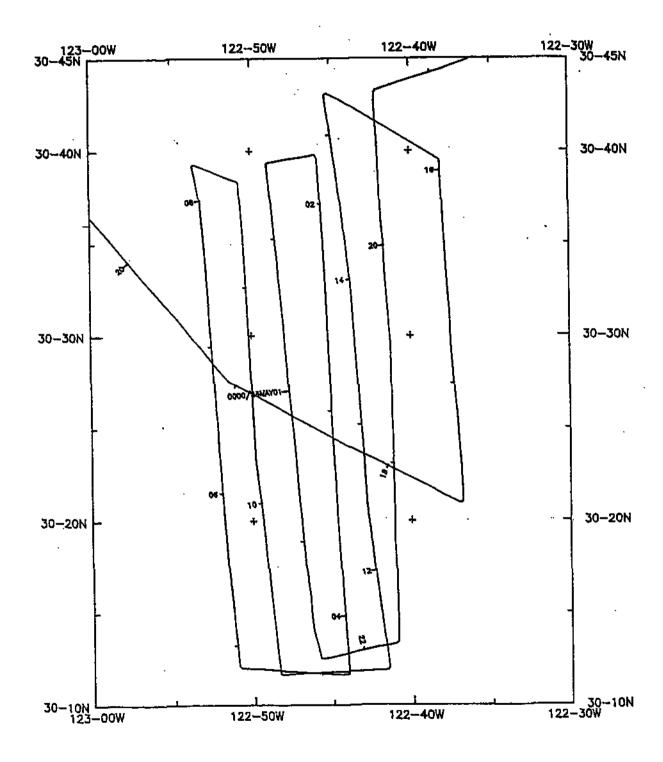
- 1) Cruise 3889 miles
- 2) Bathymetry 3687 miles
- 3) Magnetics 3769 miles
- 4) Seismic Reflection none collected
- 5) Gravity 3889 miles
- 6) Sea Beam 3687 miles



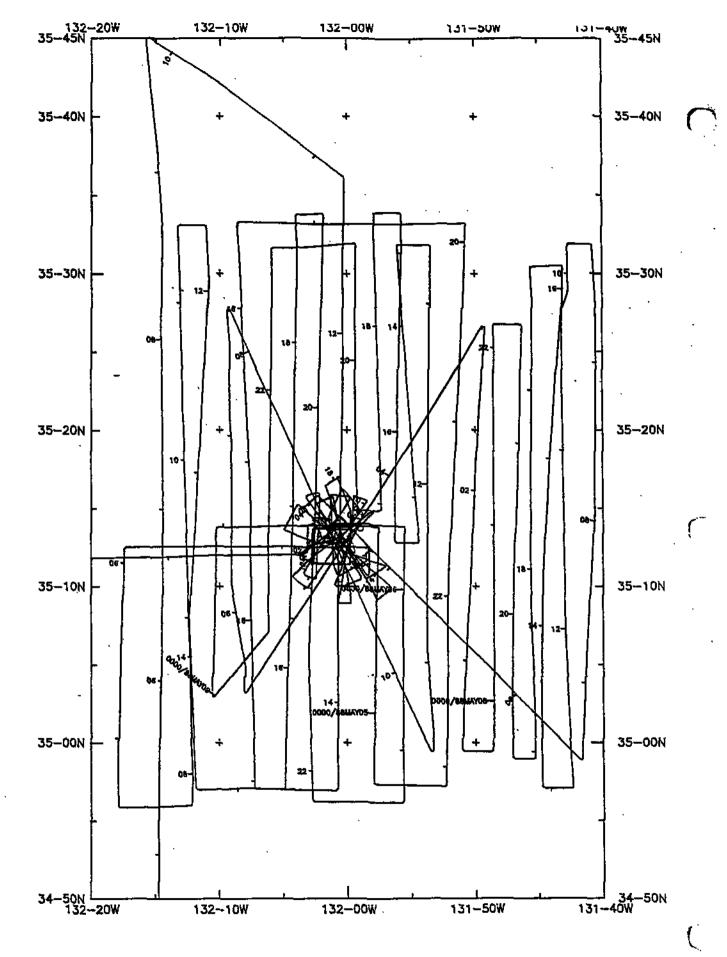
ROUNDABOUT LEG 1 (RNDB01WT)
Piot 1 of 2 at .312in deg longitude



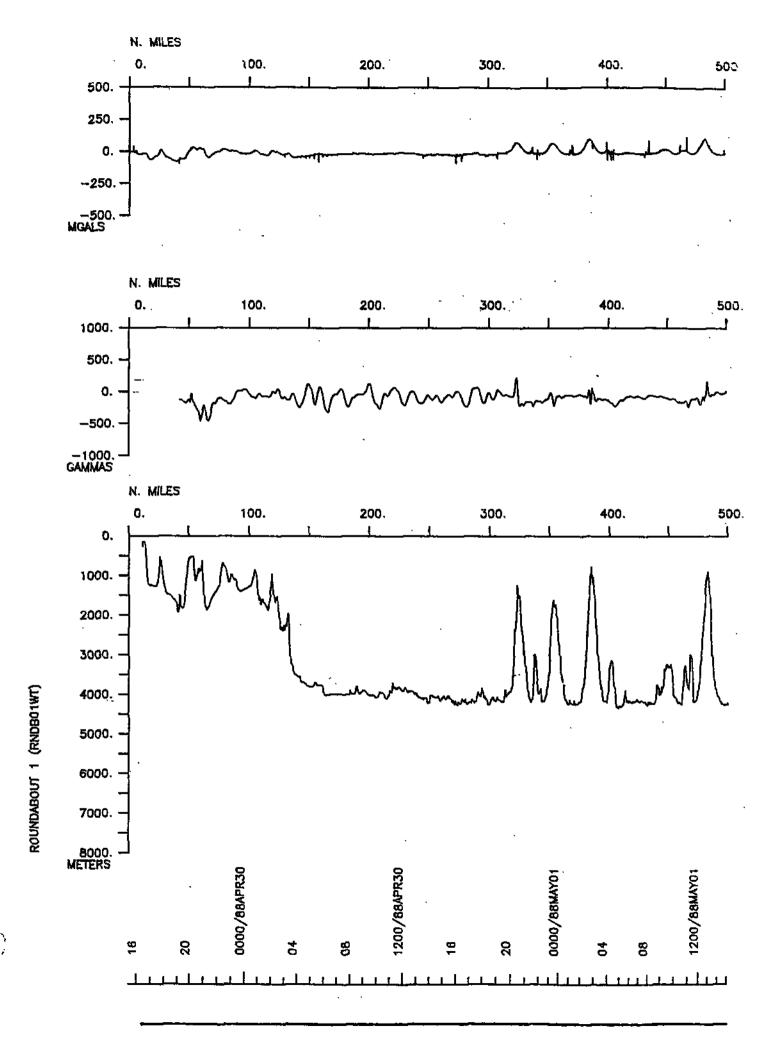
ROUNDABOUT LEG 1 (RNDB01WT)
Plot 2 of 2 at .312in deg longitude

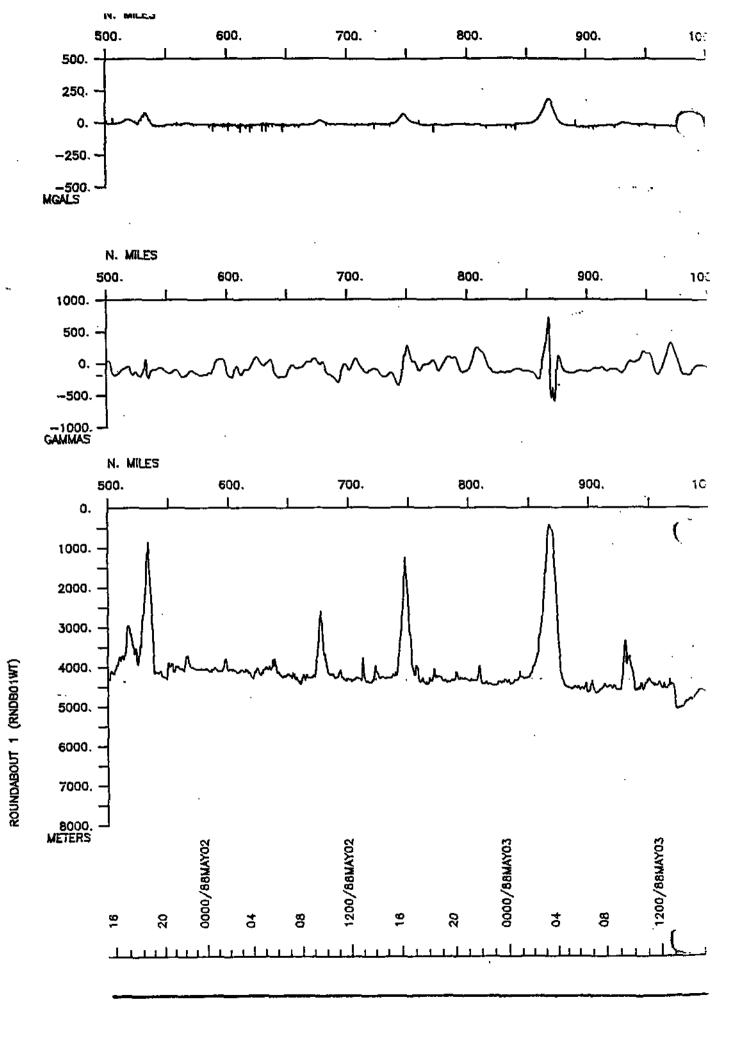


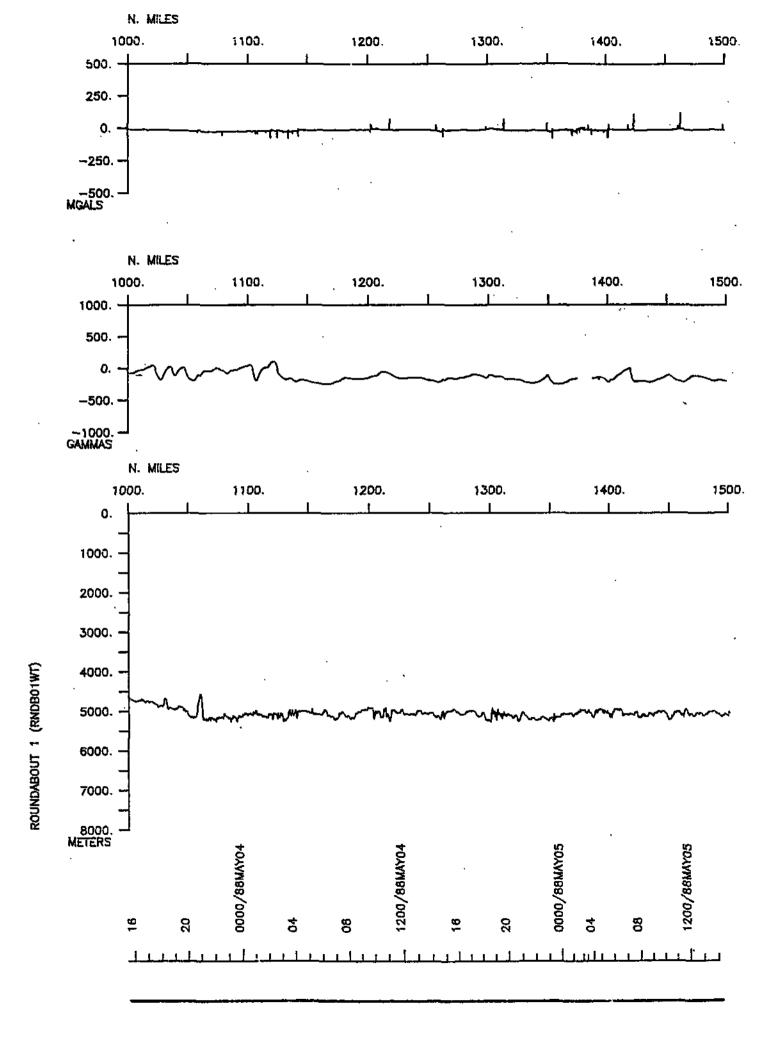
ROUNDABOUT LEG 1 (RNDB01WT) JASPER SEAMOUNT SURVEY

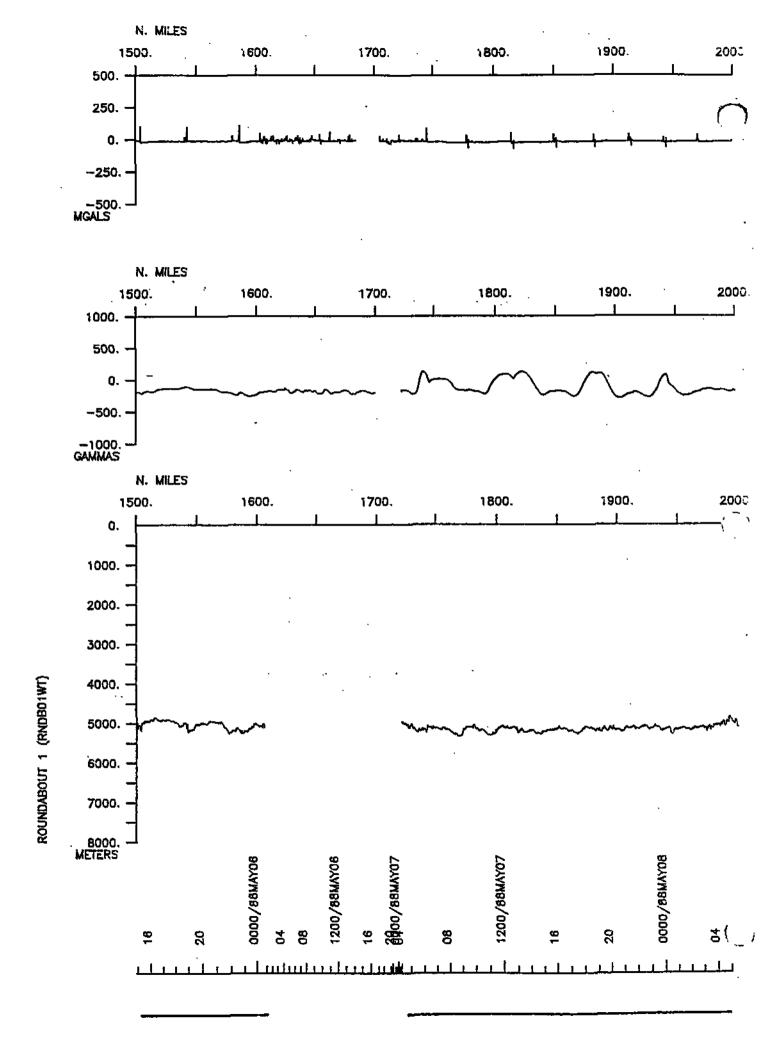


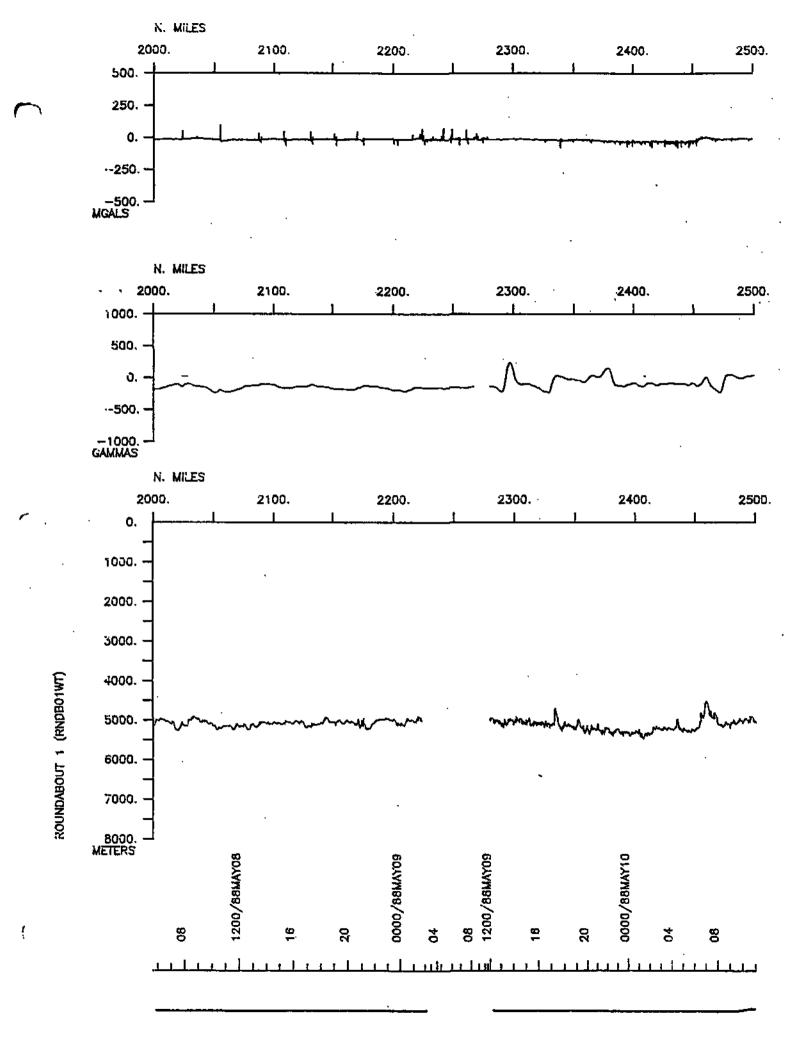
ROUNDABOUT LEG 1 (RNDB01WT) BIG G SURVEY

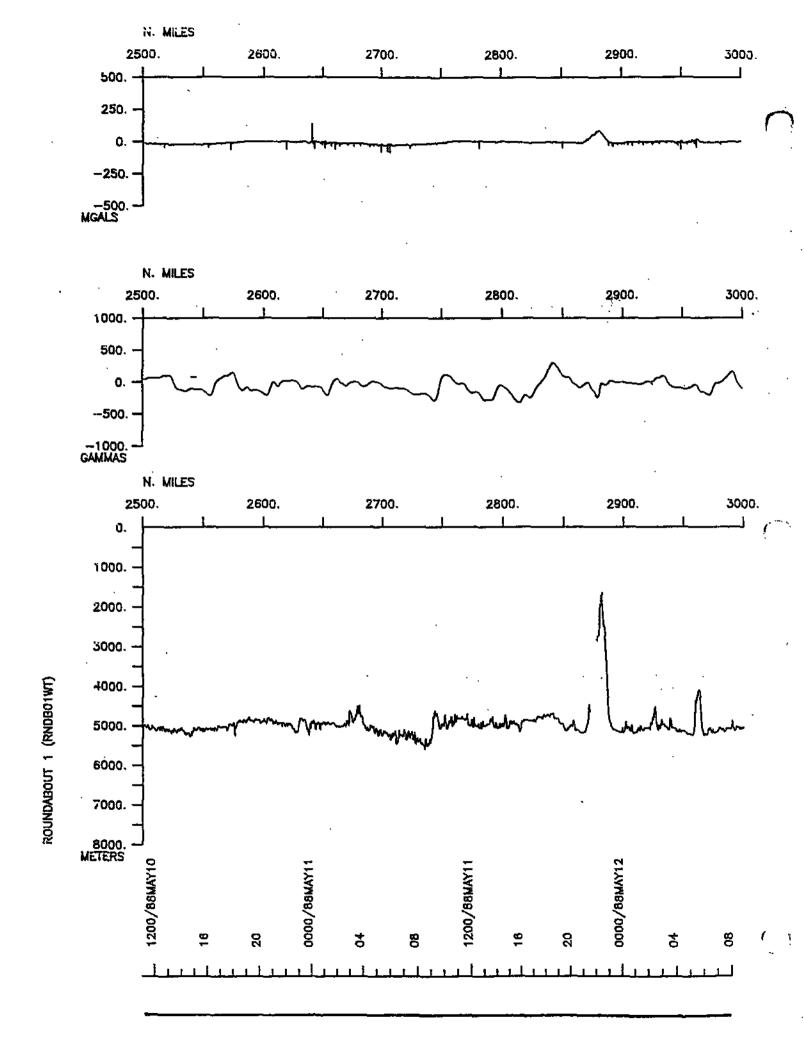


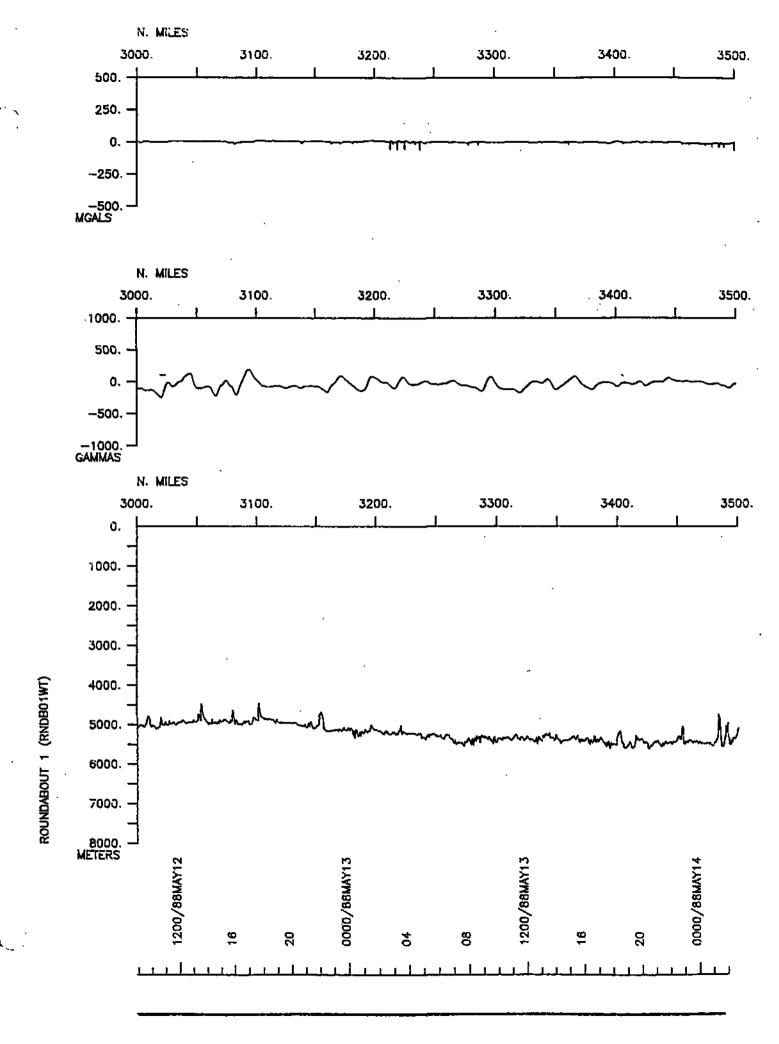


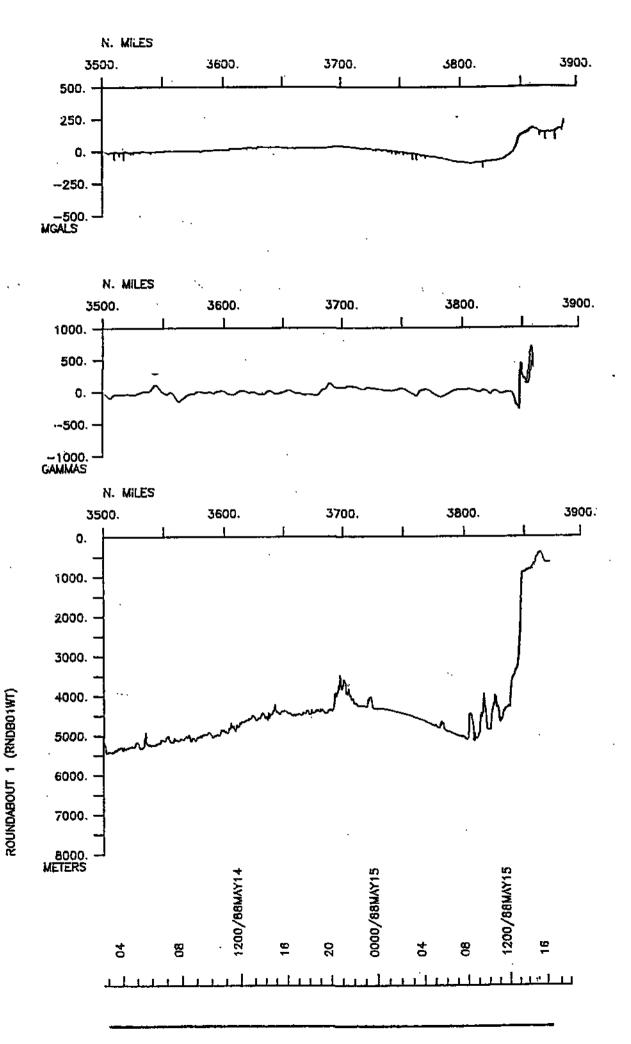












S.I.O. SAMPLE INDEX

(Issued August 1988)

ROUNDABOUT EXPEDITION

Leg 1

R/V T. Washington

San Diego, Calif. (29 April 1988) to Honolulu, Hawaii (15 May 1988)

Co-Chief Scientists:

- J. Hildebrand (Scripps Institution of Oceanography)
- A. Chave (AT&T Bell Laboratories)

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

Aug 10 14:30 1988 ROUNDABOUT LEG 1 SAMPLE INDEX Page 1

#*** PORTS ***

1500 290488	LGPT B SAN DIEGO, CALIF.	32 43 N 117 11 W fRNDB01WT
1800 150588	LGPT E HONOLULU, HAWAII	21 18 N 157 52 W fRNDB01WT

#***PERSO	NNEL***			,
	NAME	***TITLE***	***AFFILIATION***	**CRID**
PECS MPL	HILDEBRAND, J.	CHIEF SCIENTIST	SCRIPPS INSTITUTION	RNDB01WT
PECS IGP	CHAVE, A.	CHIEF SCIENTIST	AT&T BELL LABS.	RNDB01WT
PESP SIX	ANDER, M.	RESEARCHER	LOS ALAMOS NAT.LABS	RNDBQ1WT
PERT STS	BOAZ, J.	RES TECH	SCRIPPS INSTITUTION	RNDB01WT
PECT STS	CHARTERS, J.	COMPUTER TECH	SCRIPPS INSTITUTION	RNDB01WT
PEST IGP	GENRICH, J.	STUDENT	SCRIPPS INSTITUTION	RNDB01WT
PEST MPL	HAMMER, P.	STUDENT	SCRIPPS INSTITUTION	RNDB01WT
PEBE STS	HYLAS,Ť.	SEA BEAM ENGIN.	SCRIPPS INSTITUTION	RNDB01WT
PEET MPL	PAVLICEK, V.	ENGINEER	SCRIPPS INSTITUTION	RNDBOIWT
PEBO STS	SMITH,S.	SEA BEAM OPER.	SCRIPPS INSTITUTION	RNDB01WT
PEST IGP	STEVENSON, M.	STUDENT	SCRIPPS INSTITUTION	RNDB01WT
PEGT SIX	TURNER, D.	GRAVITY TECH	LA COSTE CO.	RNDB01WT
PESP IGP	ZUMBERGE,M.	RESEARCHER	SCRIPPS INSTITUTION	RNDB01WT
PESP SIX	ASUNCION, G	ENGINEER	CONSULTANT	RNDB01WT

#***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 #TIME DATE TIME Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
ATTUR DUID TTUR O	CODE	1001/11/10/	0020		#4	
n.						

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

#***LOG BOOKS***

1900 290488	LBUW B UNDERWAY WATCH LOG	GDC 32-240N 117-531W sRNDB01WT
1800 150588	LBUW E UNDERWAY WATCH LOG	GDC 21-190N 157-532W sRKDB01WT

yug 9 10:10 1988 ROUNDABOUT LEG 1 SAMPLE INDEX Page 2

#GMT DDMMYY LOC T #TIME DATE TIME Z #	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
#*** ECHO SOUNDER R					•	٠
1828 290488	MBRM B	SEABEAM MONITOR SEABEAM MONITOR	R-01 GDC	32-259N	117-464W	sRNDB01WT
0045 010588	MBRM E		R-01 GDC	30-331N	122-483W	sRNDB01WT
0045 010588	MBRM B	SEABEAM MONITOR SEABEAM MONITOR	R-02 GDC	30-331N	122-483W	sRNDB01WT
0510 040588	MBRM E		R-02 GDC	34-547N	132-148W	sRNDB01WT
0517 040588 _ 0603 080588	MBRM B MBRM E	SEABEAM MONITOR SEABEAM MONITOR				sRNDBO1WT sRNDBO1WT
0610 080588 0433 110588	MBRM B MBRM E	SEABEAM MONITOR SEABEAM MONITOR	R-04 GDC R-04 GDC			sRNDB01WT sRNDB01WT
0444 110588 1800 150588	MBRM B MBRM E	SEABEAM MONITOR SEABEAM MONITOR	R-05 GDC R-05 GDC			sRNDB01WT sRNDB01WT
2130 030588	DPR3 B	3.5 KHZ R-01	GDC	34-097N	130-541W	sRNDB01WT
400 040588	DPR3 E	3.5 KHZ R-01	GDC	34-430N	132-117W	sRNDB01WT
#*** SEA BEAM SWATH	BOOKS	***				
1659 290488	MBSB B	SWATH BOOK 01	GDC	32-322N	117-282W	sRNDB01WT
0602 010588	MBSB E	SWATH BOOK 01	GDC	30-218N	122-520W	sRNDB01WT
0602 010588 0553 030588	MBSB B MBSB E	SWATH BOOK 02 SWATH BOOK 02	GDC GDC			sRNDB01WT sRNDB01WT
0553 030588	MBSB B	SWATH BOOK 03	GDC	32-500N	127-478W	sRNDB01WT
0239 050588	MBSB E	SWATH BOOK 03	GDC	35-128N	132-020W	sRNDB01WT
0239 050588	MBSB B	SWATH BOOK 04	GDC	35-128N	132-020W	sRNDB01WT
1840 090588	MBSB E	SWATH BOOK 04	GDC	35-094N	133-256W	sRNDB01WT
1850 090588	MBSB B	SWATH BOOK 05	GDC	35~088N	133-274W	sRNDB01WT
0808 130588	MBSB E	SWATH BOOK 05	GDC	27-076N	148-586W	sRNDB01WT
0809 130588	MBSB B	SWATH BOOK 06	GDC	27-075N	148-588W	sRNDBO1WT
1800 150588	MBSB E	SWATH BOOK 06	GDC	21-190N	157-532W	sRNDBO1WT
#*** MAGNETIC (EART	H TOTAL	FIELD) RECORDS	***	,		
1914 290488 210 100588	MGRA B	MAGNETICS ROLL MAGNETICS ROLL	1 GDC 1 GDC	32-233N 34-377N	117-552W 134-360W	sRNDB01WT sRNDB01WT
0215 100588	MGRA B	MAGNETICS ROLL MAGNETICS ROLL	2 GDC	34-374N	134-368W	sRNDBO1WT
1800 150588	MGRA E		2 GDC	21-190N	157-532W	sRNDB01WT

#GMT DDMMYY LOC #TIME DATE TIME #		SAMP CODE	SAMPLE IDENTIFIER		DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP	
#*** EXPENDABLE	BAT	HYTHERM	OGRAPHS	***					
2027 300488		BTXP		3 PROBE				122-413W	
2036 300488		BTXP						122-412W	sRNDBOlWT
0100 010588		BTXP						122-485W	sRNDB01WT
1658 010588		BTXP		5 PROBE		–		122-374W	sRNDBOlWT
0114 020588		BTXP		7 PROBE				123-411W	
1608 020588	٠,	BTXP		B PROBE		_		126-149W	sRNDB01WT
0349 030588	-	BTXP		9 PROBE				127-472W	sRNDBO1WT
1828 030588		BTXP		4 PROBE					sRNDB01WT
0423 040588		BTXP		5 PROBE				132-147W	sRNDB01WT
0434 040588		BTXP		6 PROBE				132-147W	
0442 040588		BTXP		7 PROBE				132-147W	sRNDB01WT
0706 040588		BTXP		B PROBE				132-144W	sRNDB01WT
0940 040588		BTXP		9 PROBE				132-156W	
1201 040588		BTXP		O PROBE				132-003W	sRNDB01WT
1342 040588		BTXP		I PROBE				132-008W	
2130 040588		BTXP		2 PROBE				131-518W	sRNDB01WT.
2138 040588		BTXP		3 PROBE				131~519W	sRNDBO1(
0429 050588		BTXP	XBT 002		T-4			131-590W	sRNDB01WT
1722 050588		BTXP	XBT 002		T-4			132~042₩	sRNDB01WT
0938 060588		BTXP	XBT 002		T-4			132~003W	sRNDB01WT
0357 070588		BTXP		9 PROBE				132~031W	sRNDB01WT
0731 070588		BTXP		O PROBE				131-410W	
0902 070588		BTXP		1 PROBE				131~405W	sRNDB01WT
1722 070588 .		BTXP		2 PROBE				131~456W	sRNDB01WT
1851 080588		BTXP		3 PROBE				131~574W	sRNDB01WT
0051 100588		BTXP	XBT 003		T-4			134-229W	sRNDB01WT
1851 100588		BTXP		6 PROBE				137-387W	
1810 110588		BTXP		7 PROBE				141-546W	sRNDB01WT
0308 120588		BTXP		B PROBE				143-304W	sRNDB01WT
1723 120588		BTXP	XBT 003		T-4			146-120W	sRNDBOlWT
0305 130588		BTXP		O PROBE				148-014W	
1732 130588		BTXP		1 PROBE				150-421W	
0228 140588		BTXP		2 PROBE		GDC	25-009N	152-166W	sRNDB01WT
1829 140588		BTXP	XBT 004	3 PROBE	T-4	GDC	23-125N	154-519W	sRNDB01WT
·									

END SAMPLE INDEX