

*REPORT AND INDEX OF
UNDERWAY MARINE GEOPHYSICAL DATA*

BOOMERANG EXPEDITION

LEG 3

(BMRG03MV)

R/V MELVILLE

(Issued April 1996)

Ports:

Chatham Is., New Zealand (11 December 1995)

to

Dunedin, New Zealand (3 January 1996)

Chief Scientist: Ellen Druffel

(University of California, Irvine)

Resident Marine Technician - Bob Wilson

Computer Technician -Ron Moe

Post-Cruise Processing and Report Preparation by the
Geological Data Center, Scripps Institution of Oceanography
La Jolla, California 92093-0223

Data Collection and Processing Funded by:

NSF OCE94-00707

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 92093-0223*

GDC Cruise I.D.# 267

**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 and gravity free air anomaly vs. distance. (Sections of track with seismic reflection data have a wide black line along the bottom of the profile.)

Sample Index - list of begin/end times and positions of all underway records as well as samples and measurements from other disciplines if 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, California 92093-0223.

Phone: (619)534-2752, FAX: (619)534-5306, Internet email: ssmith@ucsd.edu

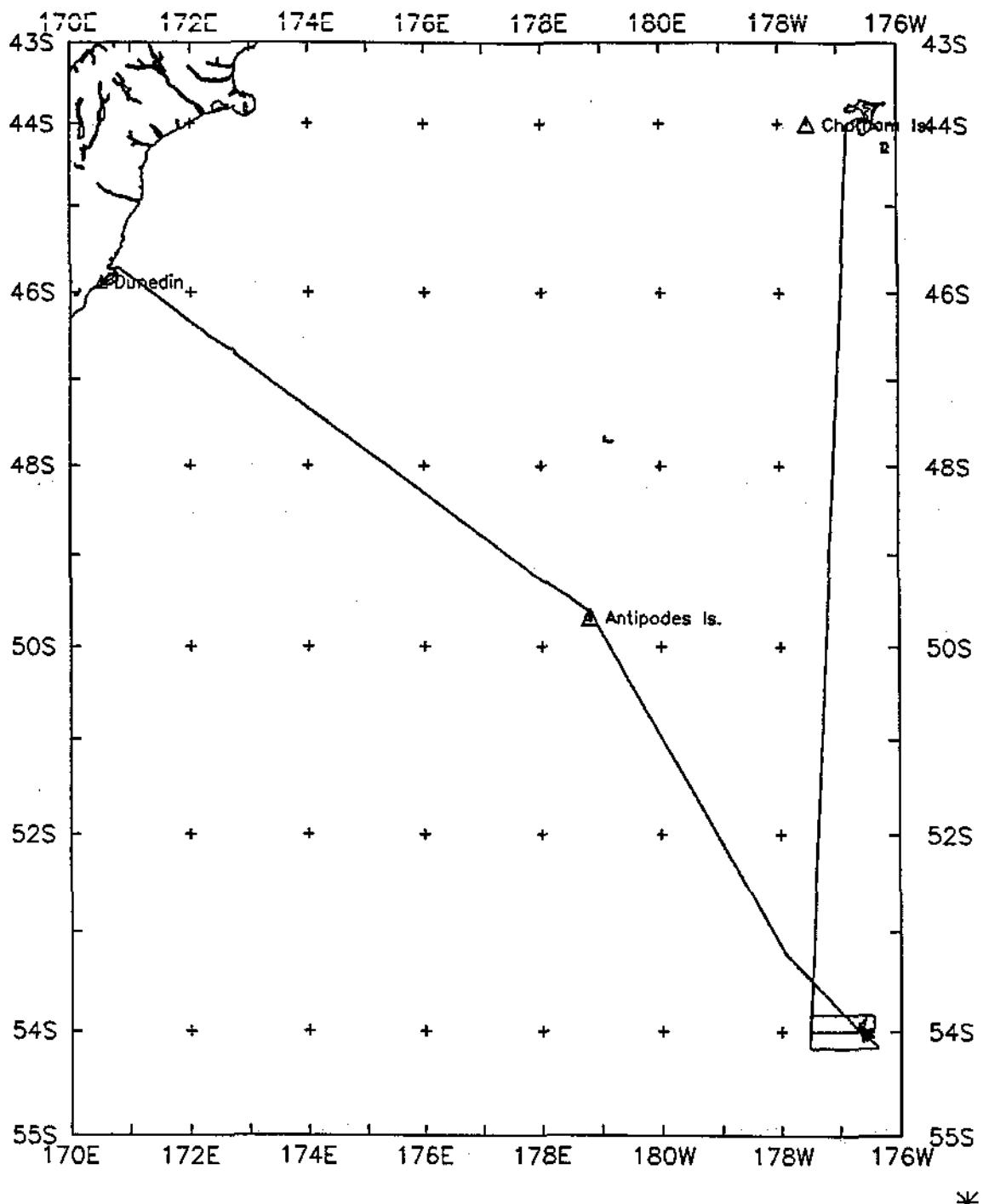
1. Files on Exabyte, DAT or 1/2 inch magnetic tape:
 - a) Separate time series ASCII files of navigation, single beam depth, gravity and magnetics.
 - b) These same data in a merged ASCII file in the MGD77 Exchange Format.
 - c) SeaBeam depth data (binary, Sun byte order) in SIO Swath Bathymetry Format (not available on 1/2" tape).
 - d) SeaBeam Sidescan data (not available on 1/2" tape).
2. Microfilm (35 mm flowfilm) or hard copies of:
 - a) Underway watch log book
 - b) SeaBeam vertical beam profile/Sidescan records.
 - c) Echosounder records - 3.5 kHz frequency.
 - d) Magnetometer records.
 - e) Seismic reflection profiler records.
3. Navigation listing with times and positions of fixes and course and speed changes.
4. Plots:
 - a) Copies of archived track plots.
 - b) Copies of archived SeaBeam contour plots.
 - c) Custom plots in Mercator projection:
 - 1) Track plots.
 - 2) SeaBeam depth contour plots.
 - 3) Depth, magnetic or gravity values printed or profiled along track.

Sea Beam 2000 Data Collected in Ancillary Mode

In the absence of funding for Sea Beam operations on this leg, Sea Beam data were collected in "ancillary mode". In this mode of operation, no Hardware Technician or SB/Underway Processor were on board and the types of realtime records and post-processed data products are reduced from those available under the fully funded mode.

The Sea Beam data remain proprietary to the SIO Shipboard Technical Support Group, not the chief scientist.

May 1993



BOOMERANG EXPEDITION LEG 3

CHIEF SCIENTIST: Ellen Druffel

University of California, Irvine

PORTS: Chatham Island, New Zealand - Dunedin, New Zealand

DATES: 11 December 1995 - 3 January 1996

SHIP: R/V Melville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise - 1899 miles

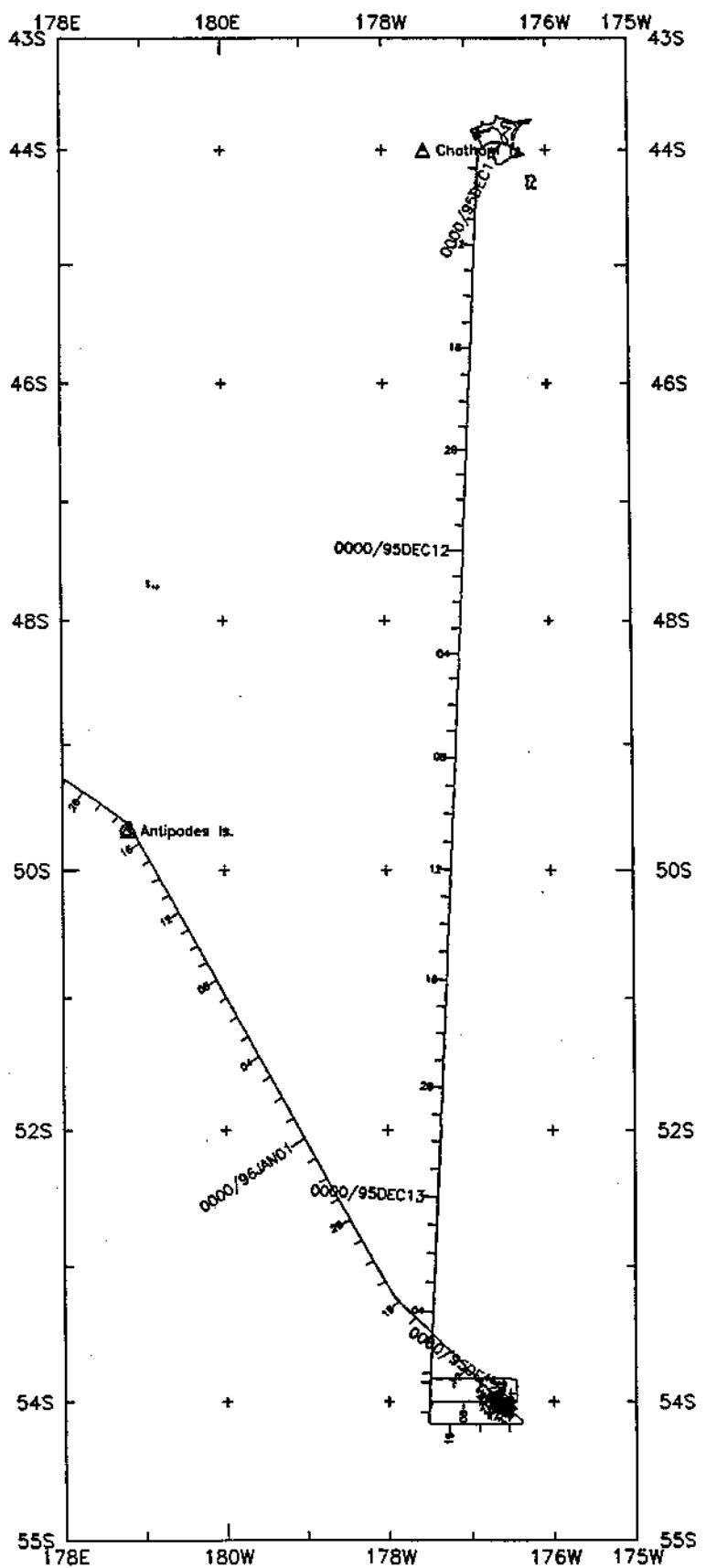
Magnetics - 897 miles

Bathymetry - 1371 miles

Seismic Reflection - none collected

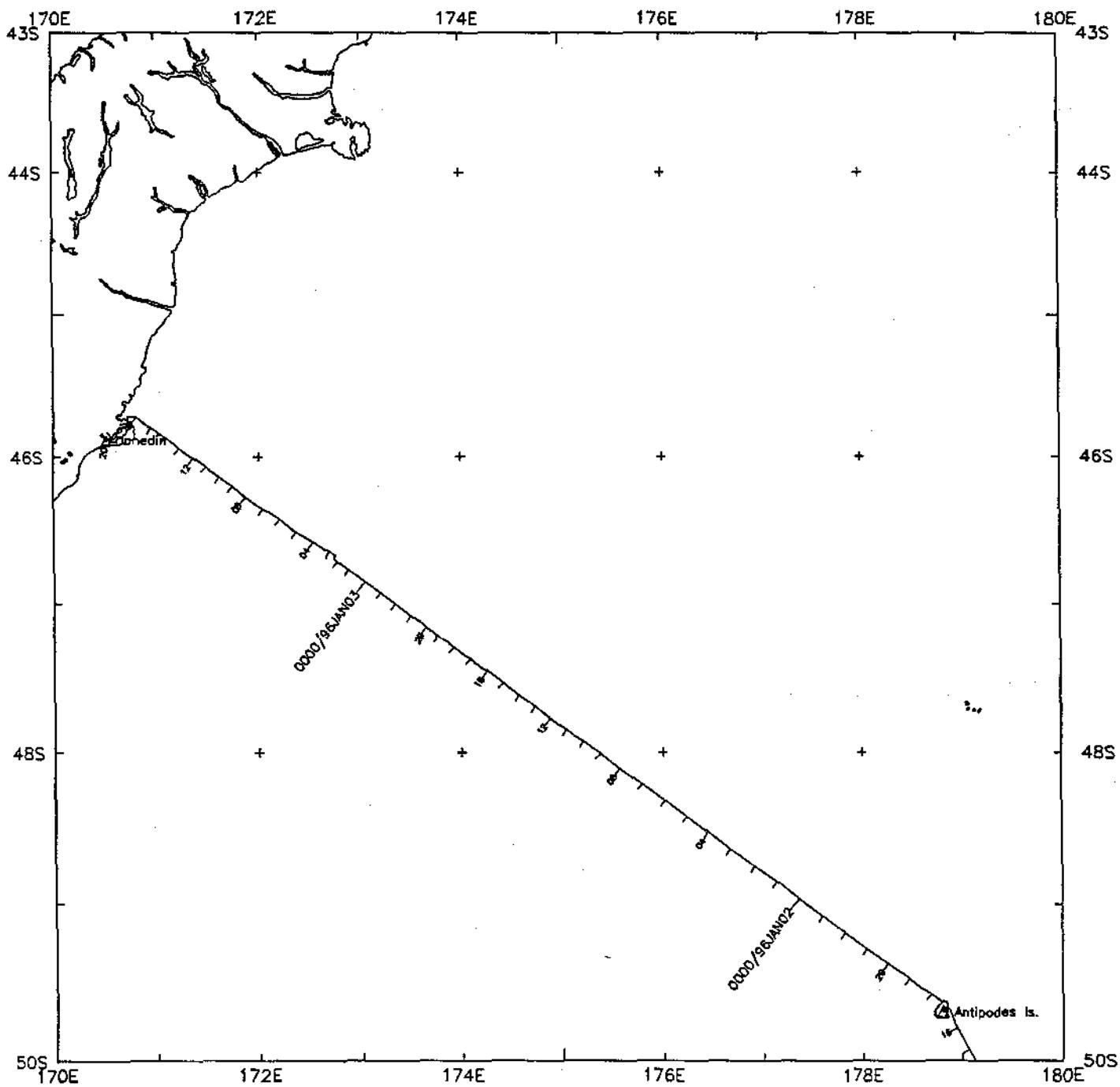
Sea Beam - 1371 miles

Gravity - 1659 miles



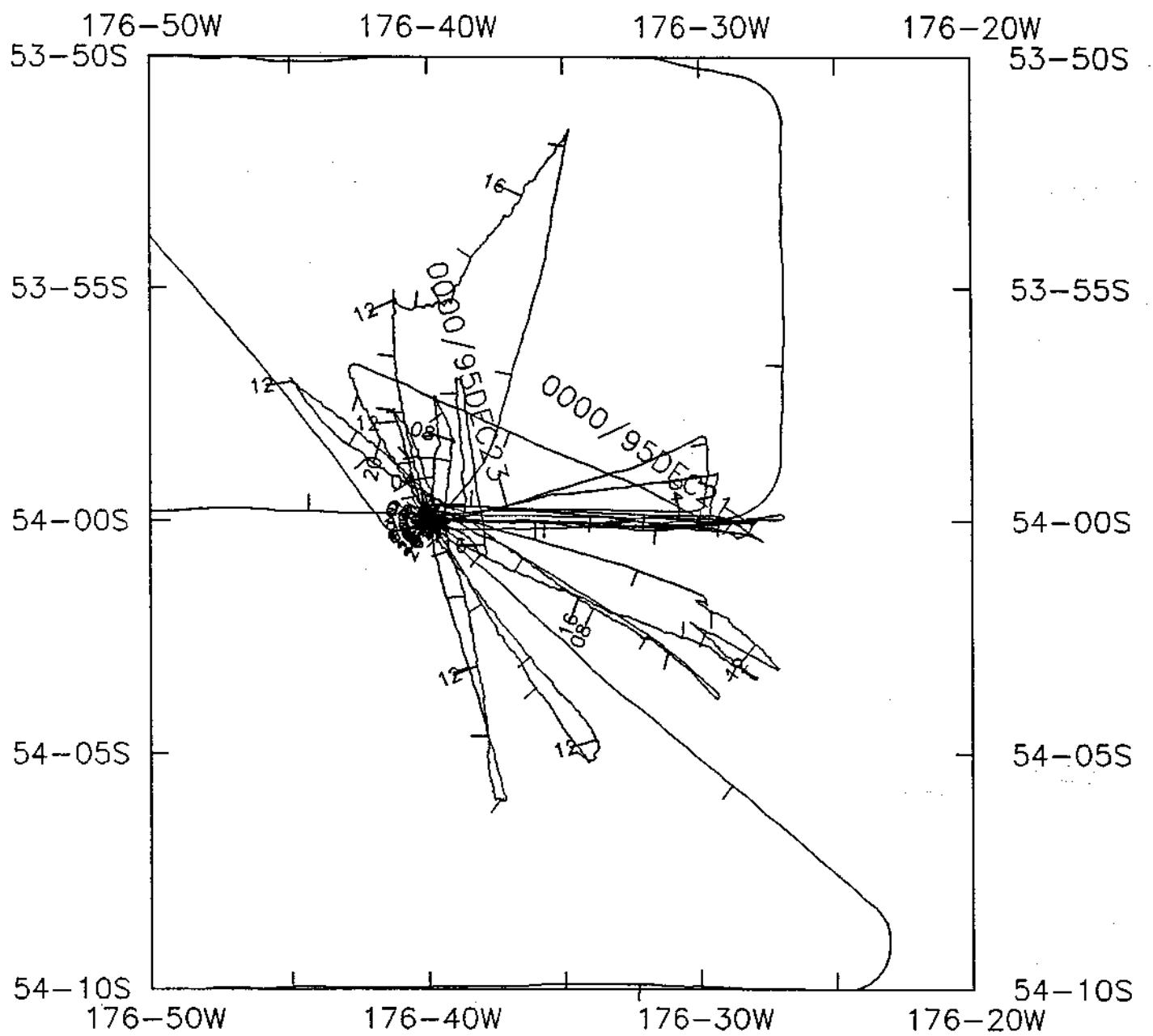
BOOMERANG Leg 3 (BMRG03MV)

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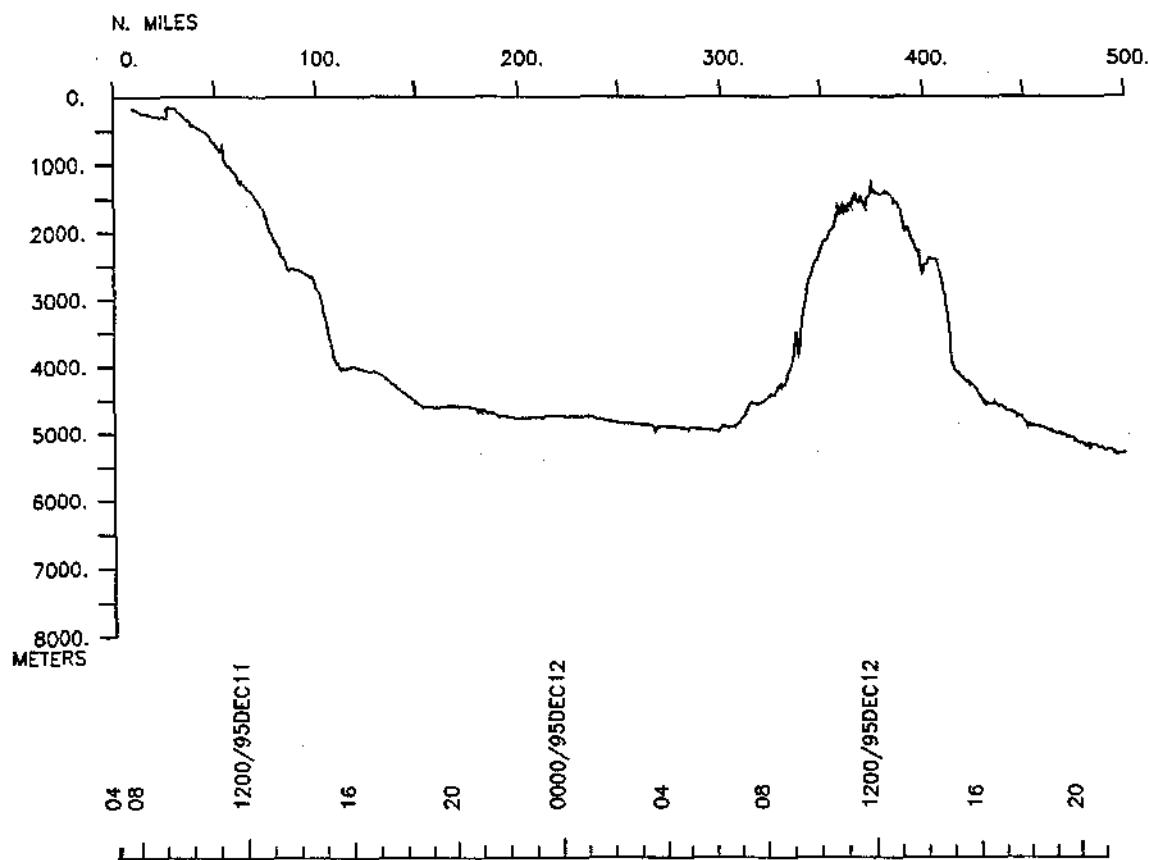
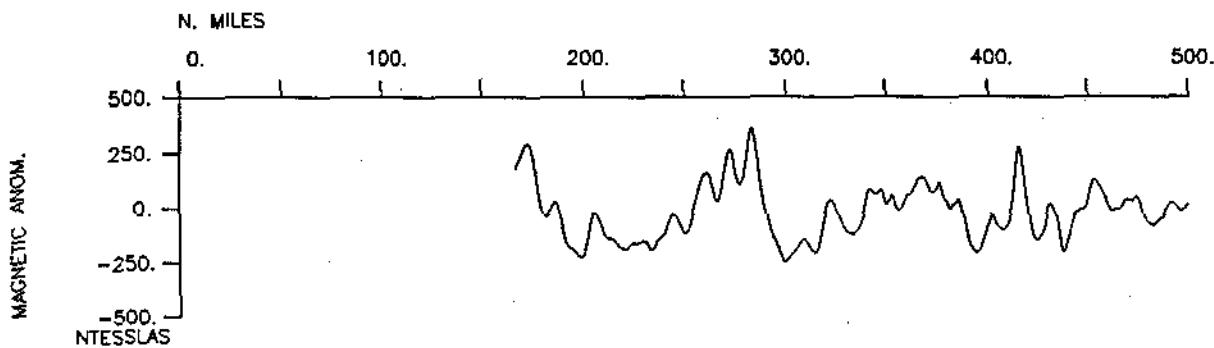
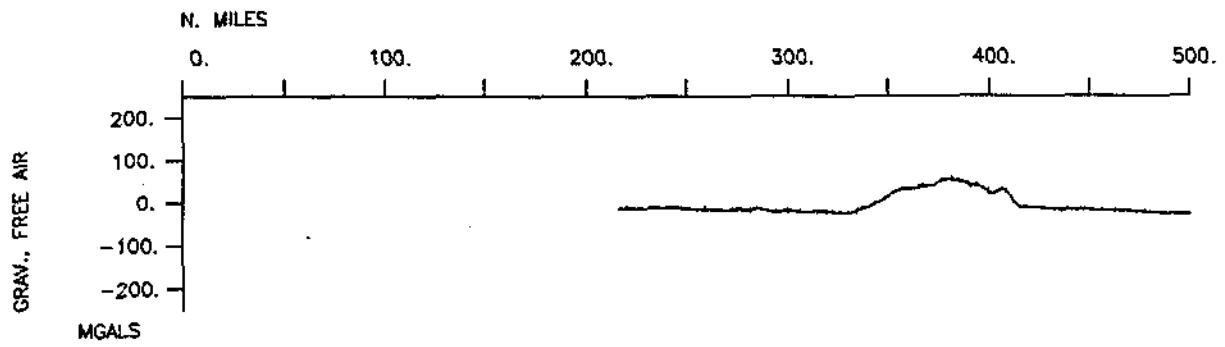
BOOMERANG Leg 3 (BMRG03MV)

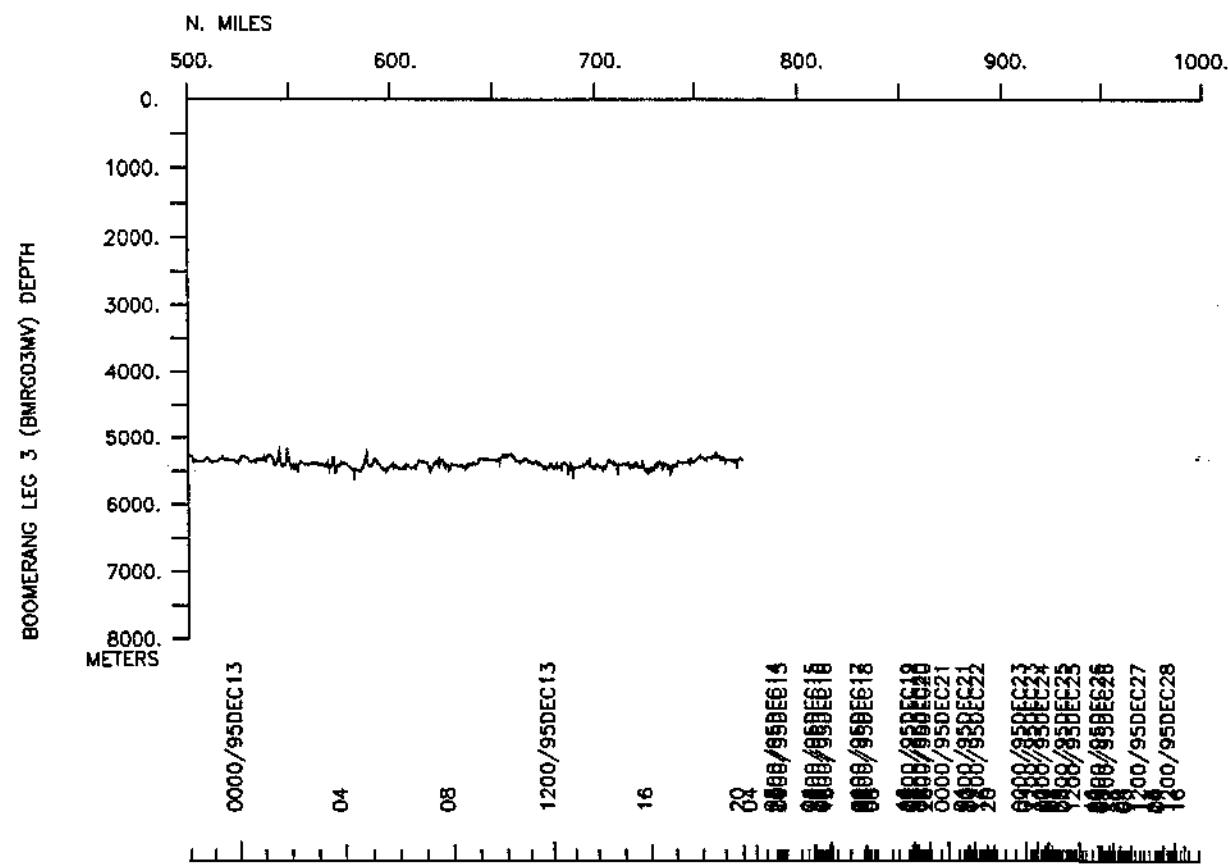
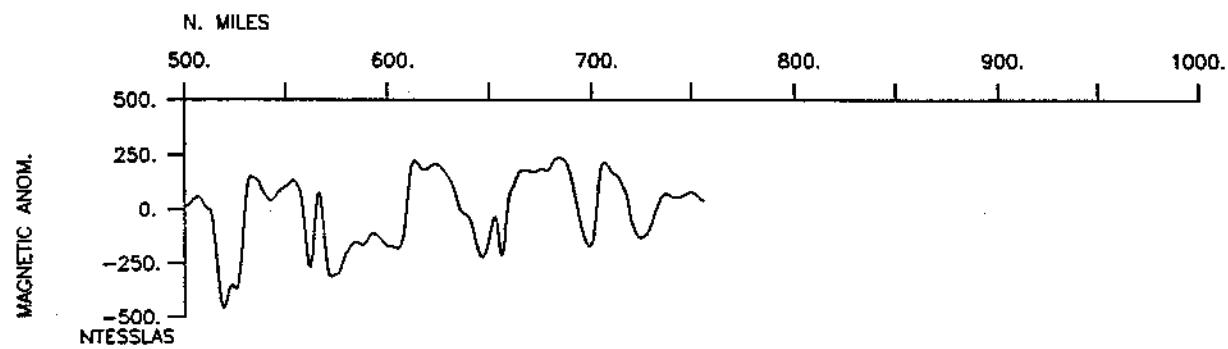
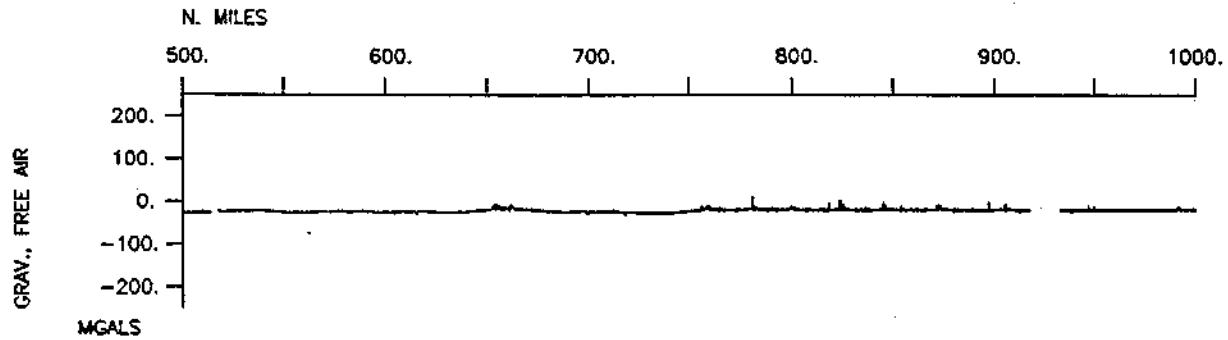
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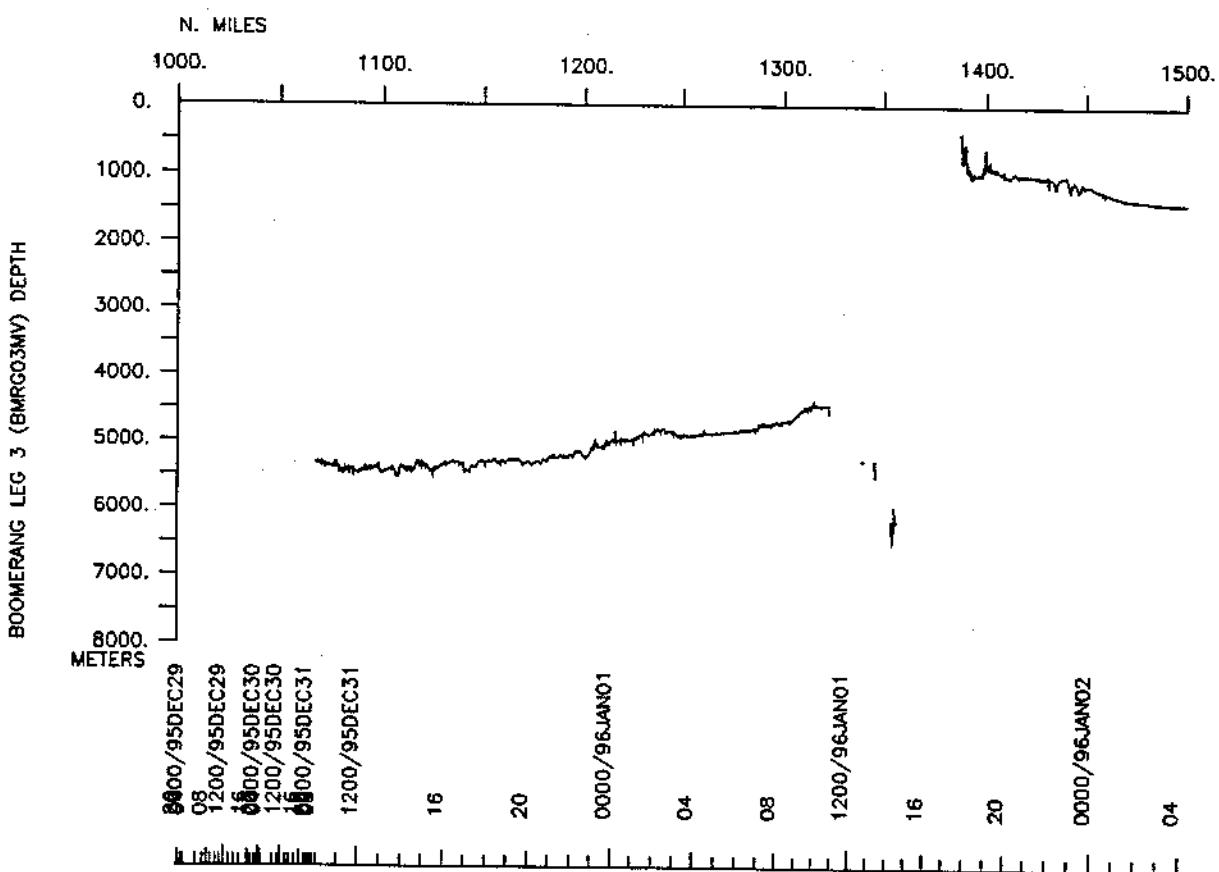
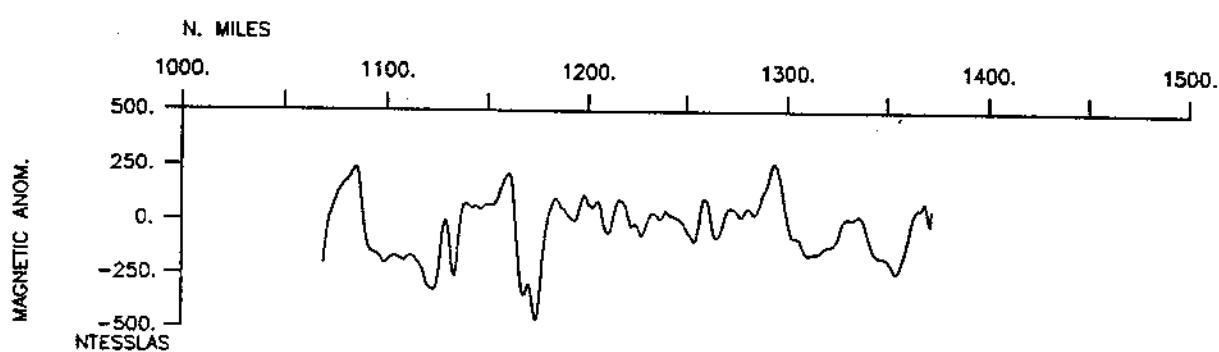
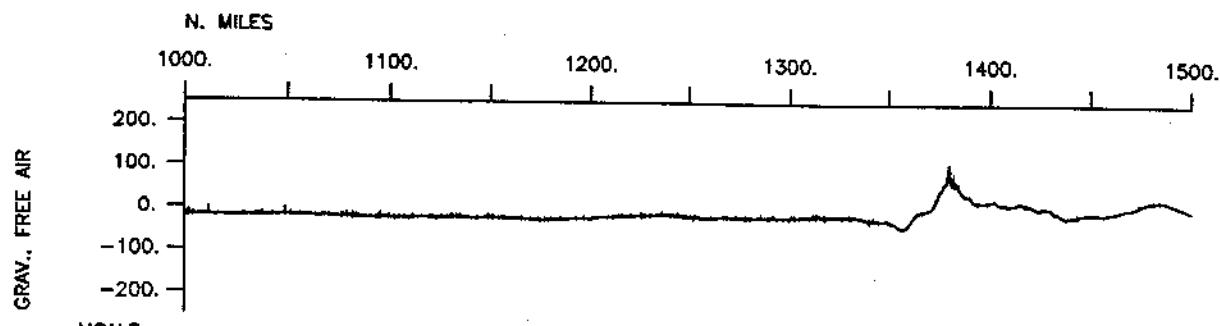


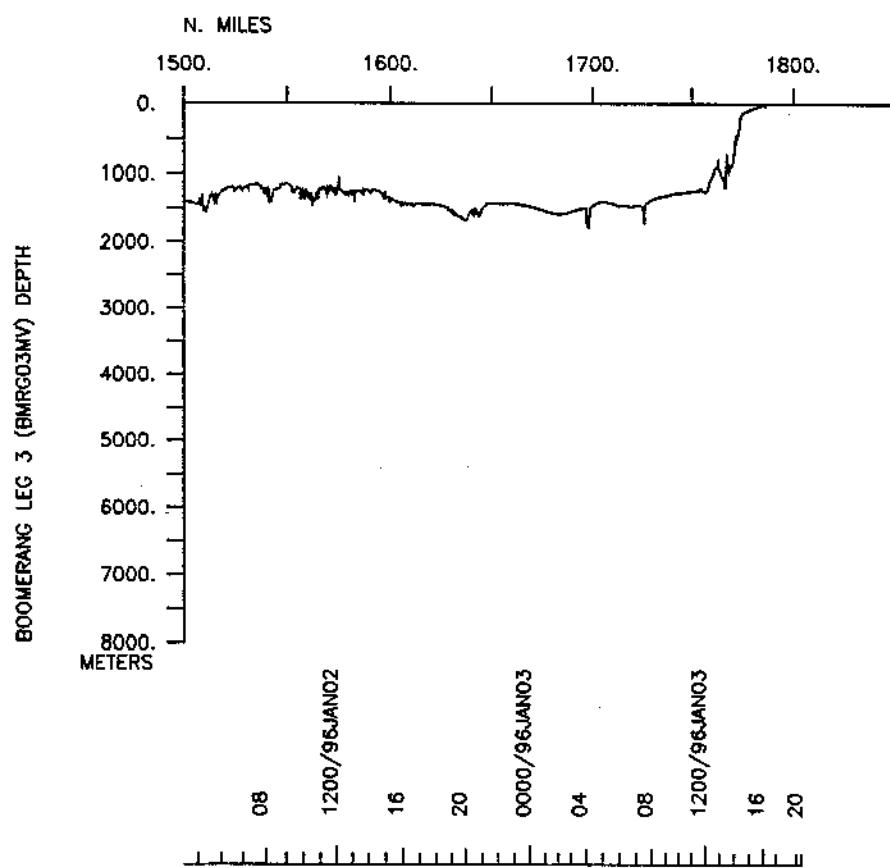
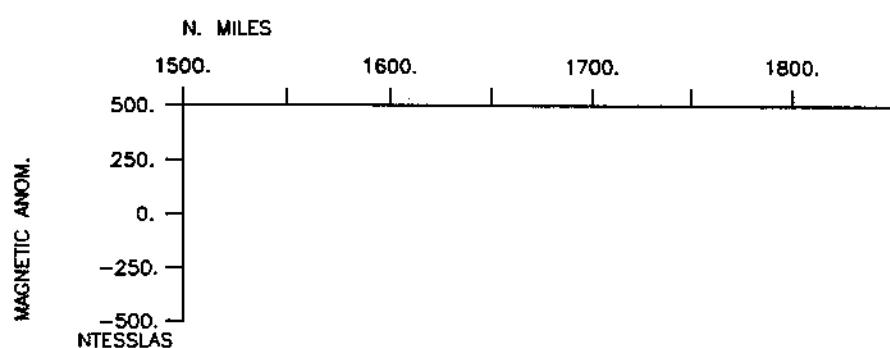
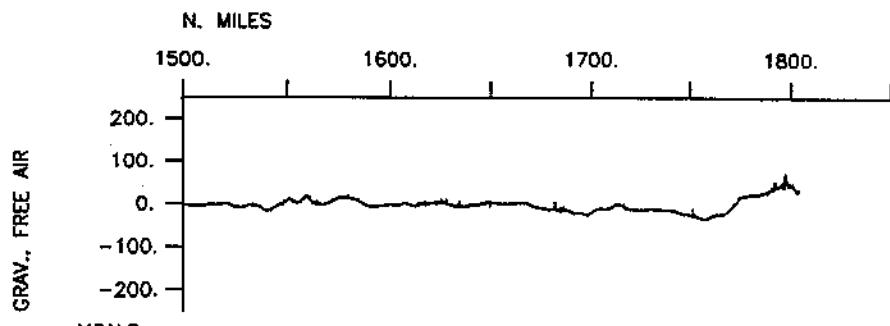
BMRG03MV survey area











S.I.O. SAMPLE INDEX

BOOMERANG EXPEDITION

LEG 3

(BMRG03MV)

R/V Melville

(Issued April 1996)

Chatham Is., New Zealand (11 December 1995)
to
Dunedin, New Zealand (3 January 1996)

Chief Scientist: Ellen Druffel

(University of California, Irvine)

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

GDC Cruise I.D.# 267

**** Ports ***

0700 111295 0	LGPT B Chatham Is., N.Zeal.	44-00.00S 177-30.00E f	BMRG03MV
1625 030196 0	LGPT E Dunedin, New Zealand	45-53.00S 170-31.00E f	BMRG03MV

**** Personnel ***

#	*****NAME*****	*****TITLE*****	*****AFFILIATION*****	**CRID**
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PECS UCI	Druffel, E.	Chief Scientist	U. of Cal. Irvine	BMRG03MV
PESP UCI	Griffin, S.	Specialist	U. of Cal. Irvine	BMRG03MV
PESP UCI	Gaza, B.	Research asso	U. of Cal. Irvine	BMRG03MV
PEST UCI	Masiello, C.	Grad student	U. of Cal. Irvine	BMRG03MV
PESP SIO	Wolgast, D.	Research asso	Scripps Institution	BMRG03MV
PESP SIX	Bauer, J.	Professor	VA.Inst.of Mar.Sci.	BMRG03MV
PESP SIX	Schrope, M.	Lab specialist	VA.Inst.of Mar.Sci.	BMRG03MV
PEST SIX	Loh, A.	Grad student	VA.Inst.of Mar.Sci.	BMRG03MV
PESP SIX	Taranto, M.	Volunteer	VA.Inst.of Mar.Sci.	BMRG03MV
PESP UCI	Wolgast, M.	Volunteer	U. of Cal. Irvine	BMRG03MV
PECT SIO	Moe, R.	Computer tech	Scripps Institution	BMRG03MV
PERT SIO	Wilson, R.	Resident tech	Scripps Institution	BMRG03MV

**** 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.

#GMT DDMMYY	SAMP	B SAMPLE	DISP	P CRUISE		
#TIME DATE TZ	CODE E	IDENTIFIER	CODE	LATITUDE	LONGITUDE	C LEG-SHIP
#-----	-----	-----	-----	-----	-----	-----

**** Underway data curator - S. M. Smith ext. 42752

**** Sea Beam Records (vertical beam and side scan) ***

0749 111295 0	MBSR B v.beam&sidescan	r-01 GDC	43-57.43S	176-43.50W	g	BMRG03MV
1625 030196 0	MBSR E v.beam&sidescan	r-01 GDC	45-43.52S	170-45.69E	g	BMRG03MV

**** Magnetics (Earth Total Field) Records ***

1947 111295 0	MGRA B magnetics roll 1	GDC	46-30.91S	176-59.50W	g	BMRG03MV
1614 010196 0	MGRA E magnetics roll 1	GDC	49-45.22S	178-54.92E	g	BMRG03MV

**** Continuous Recorded Gravity ***

0100 121295 0	GVCR B gravity auto record	GDC	47-37.97S	177-03.93W	g	BMRG03MV
1625 030196 0	GVCR E gravity auto record	GDC	45-43.52S	170-45.69E	g	BMRG03MV

**** Conductivity, Temperature, Depth ***

2054 131295 0	TDCT B recording ctd	UCI	53-59.97S	176-39.96W	g	BMRG03MV
0010 141295 0	TDCT E UCI sta 303a	UCI	53-59.59S	176-39.94W	g	BMRG03MV
0100 161295 0	TDCT B recording ctd	UCI	53-59.59S	176-40.01W	g	BMRG03MV
0419 161295 0	TDCT E UCI sta 316 5395m	UCI	53-59.59S	176-40.01W	g	BMRG03MV
0533 231295 0	TDCT B recording ctd	UCI	53-59.59S	176-40.00W	g	BMRG03MV
0835 231295 0	TDCT E UCI sta 355 5340m	UCI	54-00.00S	176-39.99W	g	BMRG03MV
2100 281295 0	TDCT B recording ctd	UCI	54-00.01S	176-39.98W	g	BMRG03MV
0000 291295 0	TDCT E UCI sta 386	UCI	53-59.59S	176-39.99W	g	BMRG03MV
0018 311295 0	TDCT B recording ctd	UCI	53-59.96S	176-40.03W	g	BMRG03MV
0319 311295 0	TDCT E UCI sta 398 5253m	UCI	54-00.00S	176-39.97W	g	BMRG03MV

**** Hydrographic Casts ***

0113 141295 0	HCGF sta 304 25,85m	UCI	53-59.98S	176-39.99W	g	BMRG03MV
0239 141295 0	HCGF 306 250,1000m	UCI	53-59.99S	176-39.95W	g	BMRG03MV
0542 151295 0	HCGF 309 3000,3600m	UCI	53-59.99S	176-40.00W	g	BMRG03MV
2245 151295 0	HCGF 312 100mab,50mab	UCI	54-00.02S	176-40.03W	g	BMRG03MV
1846 171295 0	HCGF 322 2100,2800m	UCI	54-00.00S	176-40.03W	g	BMRG03MV
2255 171295 0	HCGF 323 50mab,4800m	UCI	54-00.00S	176-39.99W	g	BMRG03MV
1150 181295 0	HCGF 325a 3,10m	UCI	54-00.02S	176-40.00W	g	BMRG03MV

#	GMT DDMMYY	SAMP	B	SAMPLE	DISP	P	CRUISE	
	TIME DATE	TZ	CODE	IDENTIFIER	CODE	LATITUDE	LONGITUDE	C LEG-SHIP
1842	181295	0	HCGF	326 2400,3300m	UCI	54-00.01S	176-40.04W	g BMRG03MV
0959	191295	0	HCGF	330 150,450m	UCI	53-59.59S	176-40.00W	g BMRG03MV
1108	191295	0	HCGF	331 600,800m	UCI	54-00.01S	176-40.01W	g BMRG03MV
2111	191295	0	HCGF	333 1300,1500m	UCI	53-59.98S	176-40.01W	g BMRG03MV
0159	211295	0	HCGF	342a 25m	UCI	54-00.05S	176-39.89W	g BMRG03MV
0217	211295	0	HCGF	342b 25m	UCI	54-00.17S	176-39.80W	g BMRG03MV
0424	211295	0	HCGF	342c 25m	UCI	53-59.99S	176-39.96W	g BMRG03MV
0306	221295	0	HCGF	349a 25m	UCI	53-59.99S	176-39.95W	g BMRG03MV
0314	221295	0	HCGF	349b 25m	UCI	53-59.99S	176-39.99W	g BMRG03MV
0513	221295	0	HCGF	350 3600m, 3590, 3595m	UCI	54-00.00S	176-40.01W	g BMRG03MV
1238	231295	0	HCGF	354 1000m	UCI	53-57.62S	176-41.22W	g BMRG03MV
2210	231295	0	HCGF	358a 5,10m	UCI	54-00.00S	176-39.99W	g BMRG03MV
0010	241295	0	HCGF	358b 25,50m	UCI	54-00.02S	176-40.05W	g BMRG03MV
0110	241295	0	HCGF	358c 85,100m	UCI	54-00.03S	176-40.01W	g BMRG03MV
0200	241295	0	HCGF	359 150,250m	UCI	54-00.01S	176-40.07W	g BMRG03MV
0754	241295	0	HCGF	364a 25m	UCI	53-58.26S	176-39.11W	g BMRG03MV
0801	241295	0	HCGF	364b 25m	UCI	53-58.27S	176-39.11W	g BMRG03MV
0809	241295	0	HCGF	364c 25m	UCI	53-58.27S	176-39.11W	g BMRG03MV
0824	241295	0	HCGF	364d 25m	UCI	53-58.27S	176-39.09W	g BMRG03MV
0830	241295	0	HCGF	364e 25m	UCI	53-58.27S	176-39.11W	g BMRG03MV
1214	241295	0	HCGF	365 3600m	UCI	53-58.27S	176-39.12W	g BMRG03MV
1603	241295	0	HCGF	365a 3600m	UCI	53-58.28S	176-39.12W	g BMRG03MV
2035	241295	0	HCGF	366 1700,1900m	UCI	54-00.00S	176-40.00W	g BMRG03MV
0006	251295	0	HCGF	367 15mab,45mab	UCI	53-59.59S	176-40.00W	g BMRG03MV
0330	251295	0	HCGF	370 450,600m	UCI	53-59.98S	176-39.97W	g BMRG03MV
0753	251295	0	HCGF	369 1000,2800m	UCI	53-59.59S	176-40.00W	g BMRG03MV
0259	261295	0	HCGF	374 2100,3600m	UCI	54-00.00S	176-39.99W	g BMRG03MV
0807	261295	0	HCGF	375 20mab,30mab	UCI	54-00.01S	176-40.00W	g BMRG03MV
2313	261295	0	HCGF	377a 25m	UCI	54-00.00S	176-39.98W	g BMRG03MV
2326	261295	0	HCGF	377b 25m	UCI	53-59.59S	176-39.99W	g BMRG03MV
0204	271295	0	HCGF	378 3600m	UCI	53-59.59S	176-39.99W	g BMRG03MV
0551	271295	0	HCGF	380 450m	UCI	54-00.00S	176-40.00W	g BMRG03MV
0656	271295	0	HCGF	381 1500m	UCI	54-00.00S	176-40.03W	g BMRG03MV
2318	271295	0	HCGF	382 20,30&60mab	UCI	53-59.59S	176-40.03W	g BMRG03MV
2318	271295	0	HCGF	382 40mab,50mab	UCI	53-59.59S	176-40.03W	g BMRG03MV
0638	281295	0	HCGF	385 2100,2800m	UCI	53-59.99S	176-40.02W	g BMRG03MV
0148	291295	0	HCGF	388 1500m, 1450, 1550m	UCI	54-00.01S	176-40.00W	g BMRG03MV
2029	291295	0	HCGF	389 2800m	UCI	54-00.02S	176-40.00W	g BMRG03MV
2308	291295	0	HCGF	389a 2800m	UCI	53-59.59S	176-39.98W	g BMRG03MV
0543	301295	0	HCGF	391 2800m	UCI	53-59.98S	176-39.99W	g BMRG03MV
0610	301295	0	HCGF	392a 25m	UCI	53-59.99S	176-39.99W	g BMRG03MV
0622	301295	0	HCGF	392b 25m	UCI	53-59.99S	176-39.98W	g BMRG03MV
1820	301295	0	HCGF	393 25m	UCI	53-59.96S	176-39.94W	g BMRG03MV
2114	301295	0	HCGF	394 45&55mab,2800m	UCI	54-00.01S	176-39.99W	g BMRG03MV
0616	311295	0	HCGF	399 25m	UCI	54-00.01S	176-39.97W	g BMRG03MV
0716	311295	0	HCGF	401 450,3600m	UCI	53-59.99S	176-39.99W	g BMRG03MV
0716	311295	0	HCGF	401 1500,2100m	UCI	53-59.99S	176-39.99W	g BMRG03MV

#GMT DDMMYY	SAMP	B SAMPLE	DISP	p CRUISE		
#TIME DATE	TZ	CODE E IDENTIFIER	CODE	LATITUDE	LONGITUDE	c LEG-SHIP

#*** Yentsch Pump ***

0710 141295	0	YNPM B yentsch pump 25,85m	UCI	54-00.01S	176-40.01W	g BMRG03MV
0955 141295	0	YNPM E sta 307	UCI	54-00.02S	176-39.97W	g BMRG03MV
1110 141295	0	YNPM B yentsch 3000,3600m	UCI	53-59.98S	176-39.92W	g BMRG03MV
0044 151295	0	YNPM E sta 308	UCI	53-59.99S	176-39.98W	g BMRG03MV
1035 151295	0	YNPM B yentsch 1300,1500m	UCI	53-59.99S	176-39.98W	g BMRG03MV
1842 151295	0	YNPM E sta 311	UCI	54-00.02S	176-40.04W	g BMRG03MV
0645 161295	0	YNPM B yentsch 50&100mab	UCI	54-00.01S	176-40.00W	g BMRG03MV
2100 161295	0	YNPM E sta 317	UCI	53-59.69S	176-38.45W	g BMRG03MV
0410 171295	0	YNPM B yentsch 4200,4800m	UCI	53-59.99S	176-40.00W	g BMRG03MV
1255 171295	0	YNPM E sta 321	UCI	54-00.01S	176-39.99W	g BMRG03MV
0520 181295	0	YNPM B yentsch 2100,2800m	UCI	54-00.02S	176-39.97W	g BMRG03MV
0920 181295	0	YNPM E sta 325	UCI	54-00.00S	176-40.03W	g BMRG03MV
2301 181295	0	YNPM B yentsch 150,450m	UCI	53-59.98S	176-39.99W	g BMRG03MV
0058 191295	0	YNPM E sta 327	UCI	54-00.00S	176-40.01W	g BMRG03MV
0344 191295	0	YNPM B yentsch 800+1000m	UCI	53-59.59S	176-39.98W	g BMRG03MV
0910 191295	0	YNPM E sta 329	UCI	54-00.01S	176-40.01W	g BMRG03MV
1340 191295	0	YNPM B yentsch 450+600m	UCI	53-59.99S	176-39.99W	g BMRG03MV
1840 191295	0	YNPM E sta 332	UCI	54-00.01S	176-39.99W	g BMRG03MV
0241 201295	0	YNPM B yentsch 6and16m	UCI	54-00.01S	176-39.99W	g BMRG03MV
0441 201295	0	YNPM E sta 336	UCI	54-00.00S	176-39.97W	g BMRG03MV
0655 201295	0	YNPM B yentsch 25,250m	UCI	54-00.01S	176-40.01W	g BMRG03MV
0856 201295	0	YNPM E sta 337	UCI	54-00.00S	176-40.00W	g BMRG03MV
1440 201295	0	YNPM B yentsch 50&100mab	UCI	54-00.05S	176-39.99W	g BMRG03MV
1840 201295	0	YNPM E sta 338	UCI	54-00.02S	176-40.00W	g BMRG03MV
0750 211295	0	YNPM B yentsch 3000,3600m	UCI	54-00.01S	176-40.00W	g BMRG03MV
1150 211295	0	YNPM E sta 343	UCI	53-59.98S	176-39.94W	g BMRG03MV
2006 211295	0	YNPM B yentsch 2400,3300m	UCI	53-59.99S	176-39.99W	g BMRG03MV
2309 211295	0	YNPM E sta 345	UCI	53-59.59S	176-40.01W	g BMRG03MV

#GMT DDMMYY	SAMP	B SAMPLE	DISP	P CRUISE		
#TIME DATE	TZ	CODE E IDENTIFIER	CODE	LATITUDE	LONGITUDE	C LEG-SHIP
***** Open Nets *****						
2309 131295	0	ON25 B sta305	UCI	53-59.98S	176-39.98W	g BMRG03MV
2313 131295	0	ON25 E sta305	UCI	53-59.98S	176-39.97W	g BMRG03MV
0126 141295	0	ON25 B sta305a	UCI	53-59.59S	176-39.98W	g BMRG03MV
0139 141295	0	ON25 E sta305a	UCI	54-00.02S	176-39.94W	g BMRG03MV
1149 151295	0	ON25 B sta310	UCI	54-00.03S	176-40-02W	g BMRG03MV
1200 151295	0	ON25 E sta310	UCI	53-59.98S	176-39.96W	g BMRG03MV
2336 151295	0	ON25 B sta314	UCI	54-00.00S	176-39.99W	g BMRG03MV
2346 151295	0	ON25 E sta314	UCI	54-00.00S	176-40.01W	g BMRG03MV
2350 151295	0	ON25 B sta315	UCI	54-00.01S	176-40.01W	g BMRG03MV
0000 161295	0	ON25 E sta315	UCI	53-59.99S	176-39.98W	g BMRG03MV
0920 231295	0	ON1M B net tow 120m	UCI	53-59.91S	176-40.10W	g BMRG03MV
0950 231295	0	ON1M E sta 356a	UCI	53-59.60S	176-40.27W	g BMRG03MV
1004 231295	0	ON1M B net tow 85m	UCI	53-59.42S	176-40.36W	g BMRG03MV
1034 231295	0	ON1M E sta 356b	UCI	53-58.97S	176-40.58W	g BMRG03MV
1045 231295	0	ON1M B net tow 50m	UCI	53-58.80S	176-40.67W	g BMRG03MV
1115 231295	0	ON1M E sta 356c	UCI	53-58.49S	176-40.81W	g BMRG03MV
1125 231295	0	ON1M B net tow 25m	UCI	53-58.36S	176-40.89W	g BMRG03MV
1153 231295	0	ON1M E sta 356d	UCI	53-57.97S	176-41.05W	g BMRG03MV
0326 241295	0	ON1M B net tow 120m	UCI	53-59.76S	176-39.89W	g BMRG03MV
0347 241295	0	ON1M E sta 362a	UCI	53-59.33S	176-39.84W	g BMRG03MV
0355 241295	0	ON1M B net tow 85m	UCI	53-59.15S	176-39.75W	g BMRG03MV
0415 241295	0	ON1M E sta 362b	UCI	53-58.74S	176-39.76W	g BMRG03MV
0547 241295	0	ON1M B net tow 50m	UCI	53-58.43S	176-39.62W	g BMRG03MV
0608 241295	0	ON1M E sta 362c	UCI	53-58.01S	176-39.65W	g BMRG03MV
0615 241295	0	ON1M B net tow 25m	UCI	53-57.88S	176-39.64W	g BMRG03MV
0634 241295	0	ON1M E sta 362d	UCI	53-57.47S	176-39.74W	g BMRG03MV
2159 251295	0	ON1M B net tow 120m	UCI	53-59.93S	176-39.86W	g BMRG03MV
2227 251295	0	ON1M E sta 372a	UCI	53-59.59S	176-39.97W	g BMRG03MV
2231 251295	0	ON1M B net tow 85m	UCI	53-59.59S	176-40.01W	g BMRG03MV
2255 251295	0	ON1M E sta 372b	UCI	53-59.95S	176-39.91W	g BMRG03MV

#	GMT DDMMYY	SAMP	B SAMPLE	DISP	p	CRUISE		
#	TIME DATE	TZ	CODE E IDENTIFIER	CODE	LATITUDE	LONGITUDE	c	LEG-SHIP
	2303 251295	0	ON1M B net tow 50m	UCI	53-59.93S	176-39.88W	g	BMRG03MV
	2322 251295	0	ON1M E sta 372c	UCI	53-59.90S	176-39.87W	g	BMRG03MV
	2325 251295	0	ON1M B net tow 25m	UCI	53-59.93S	176-39.92W	g	BMRG03MV
	2339 251295	0	ON1M E sat 372d	UCI	54-00.00S	176-40.04W	g	BMRG03MV

**** Bucket Samples ***

2306 131295	0	BKST	bucket sta 305	UCI	53-59.99S	176-39.98W	g	BMRG03MV
2249 141295	0	BKST	bucket sta 310	UCI	54-00.01S	176-39.99W	g	BMRG03MV
2346 151295	0	BKST	bucket sta 314	UCI	54-00.00S	176-40.01W	g	BMRG03MV
2350 151295	0	BKST	bucket sta 315	UCI	54-00.01S	176-40.01W	g	BMRG03MV
0043 171295	0	BKST	bucket sta 319	UCI	54-00.00S	176-39.99W	g	BMRG03MV
0328 211295	0	BKST	bucket sta 340	UCI	53-59.99S	176-39.98W	g	BMRG03MV
2328 211295	0	BKST	bucket sta 346	UCI	54-00.02S	176-40.01W	g	BMRG03MV
2354 241295	0	BKST	bucket sta 368	UCI	54-00.01S	176-40.02W	g	BMRG03MV
2320 261295	0	BKST	bucket sta 379	UCI	53-59.99S	176-40.01W	g	BMRG03MV
2302 271295	0	BKST	bucket sta 383	UCI	54-00.00S	176-40.01W	g	BMRG03MV
2323 291295	0	BKST	bucket sta 387	UCI	53-59.99S	176-40.01W	g	BMRG03MV
2314 301295	0	BKST	bucket sta 395	UCI	53-59.98S	176-40.01W	g	BMRG03MV

**** Air Samples ***

0228 211295	0	ASCS B	aerosol sample	UCI	54-00.30S	176-39.37W	g	BMRG03MV
0118 231295	0	ASCS E	sta 339	UCI	53-59.99S	176-39.93W	g	BMRG03MV
1938 231295	0	ASCS B	aerosol sample	UCI	54-00.00S	176-40.03W	g	BMRG03MV
1939 251295	0	ASCS E	sta 352	UCI	53-59.99S	176-40.04W	g	BMRG03MV
1941 251295	0	ASCS B	aerosol sample	UCI	54-00.00S	176-40.00W	g	BMRG03MV
1955 271295	0	ASCS E	sta 371	UCI	53-59.99S	176-40.03W	g	BMRG03MV

**** Gravity Cores ***

0241 231295	0	COGV	gravity1 sta352a	UCI	53-59.59S	176-40.02W	g	BMRG03MV
1845 231295	0	COGV	gravity2 sta357a	UCI	54-00.01S	176-40.02W	g	BMRG03MV
2046 261295	0	COGV	gravity3 sta376a	UCI	54-00.01S	176-39.98W	g	BMRG03MV
1941 271295	0	COGV	gravity4 sta381a	UCI	53-59.59S	176-40.01W	g	BMRG03MV

**** Biological Sample ***

**** Boat Hook Kelp ***

0442 271295	0	BLXX	boathk.kelp sta378a	UCI	54-00.05S	176-39.45W	g	BMRG03MV
0223 281295	0	BLXX	boathk.kelp sta384a	UCI	53-59.99S	176-40.00W	g	BMRG03MV

#

End Sample Index

BMRG03MV