

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

(Issued September 1987)

CROSSGRAIN EXPEDITION

LEG 2

Papeete, Tahiti (31 March 1987)
to
Papeete, Tahiti (25 April 1987)

R/V T. Washington

Co-Chief Scientists - M. McNutt & J. Natland

Resident Marine Tech - J. Boaz

Post-Cruise Processing and Report Preparation
by S.I.O. Geological Data Center

Data Collection and Processing Funded by
NSF Grant Numbers OCE83-17741/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.# 228

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.

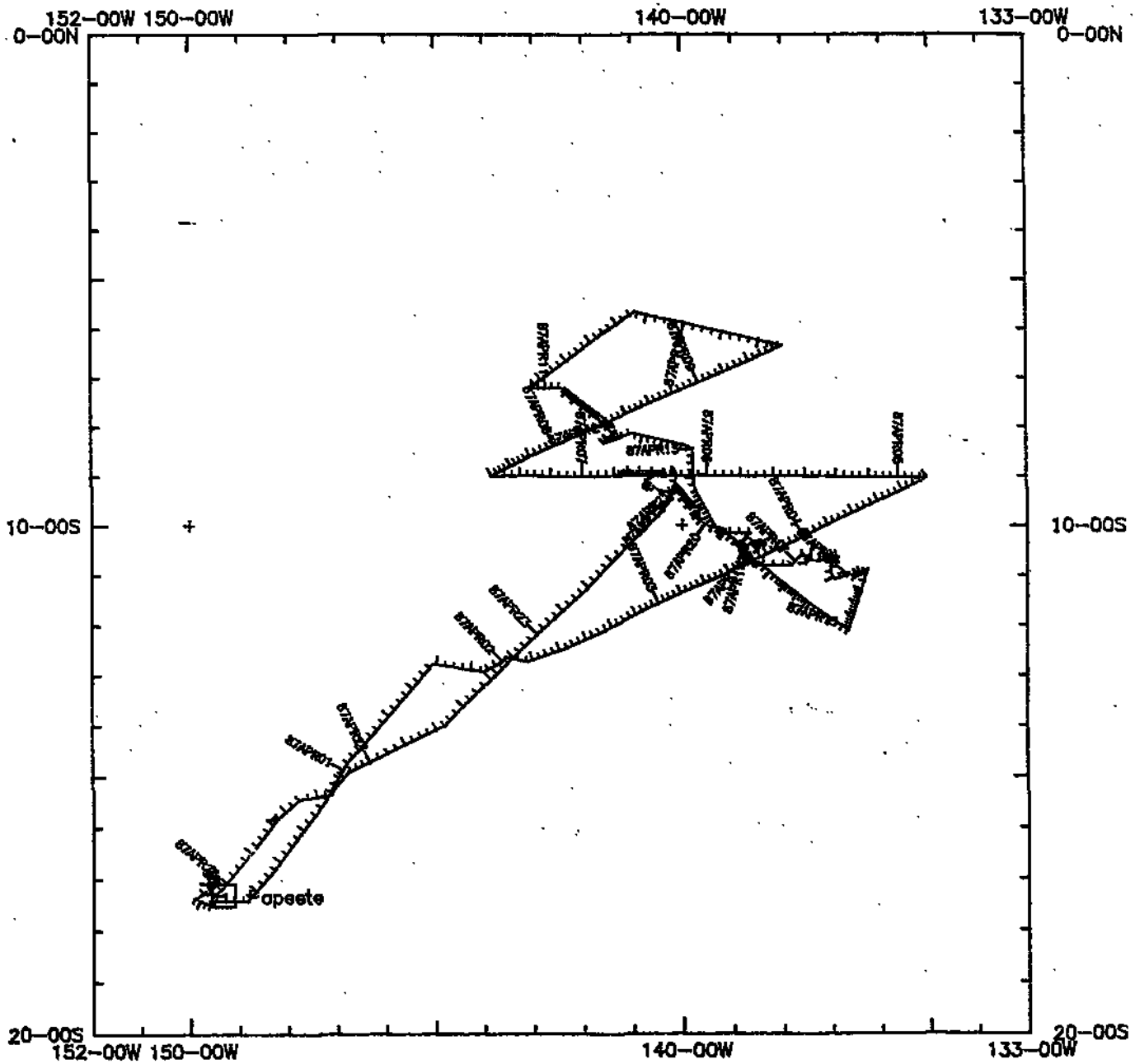
1. Navigation listing with times and positions of course and speed changes, fixes and drift velocity.
2. Depth compilation plots - compilation plots at the traditional scale of 4in/degree longitude (1:1,000,000) are no longer produced for Sea Beam cruises. Custom plots may be requested of vertical beam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

SIO Sea Beam Data

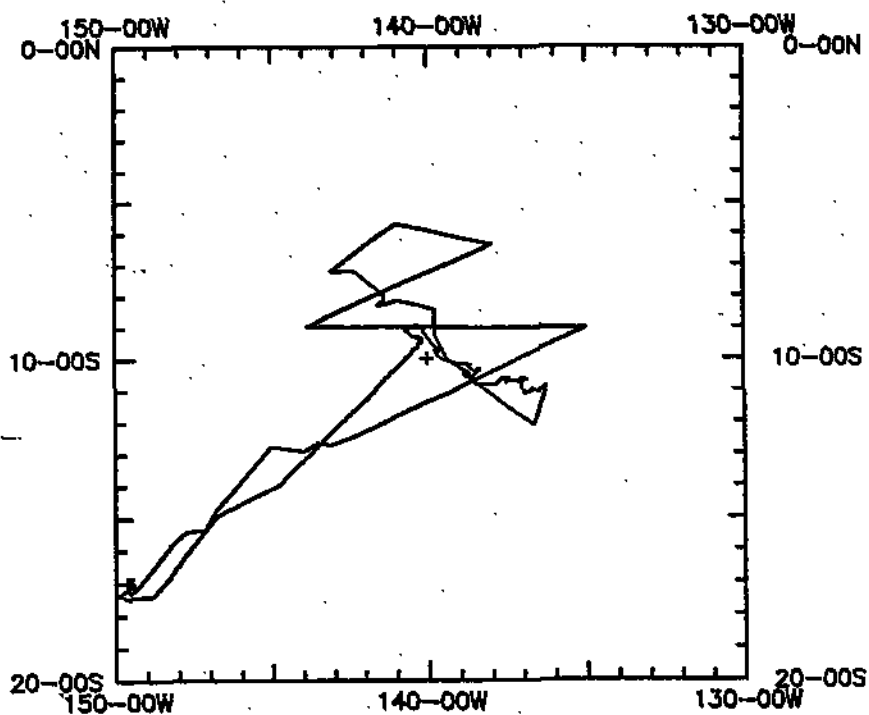
The following forms are available, subject to approval of the cruise leg chief scientist:

- 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



CROSSGRAIN LEG 2 Track at .312in/deg (CRGN02WT)



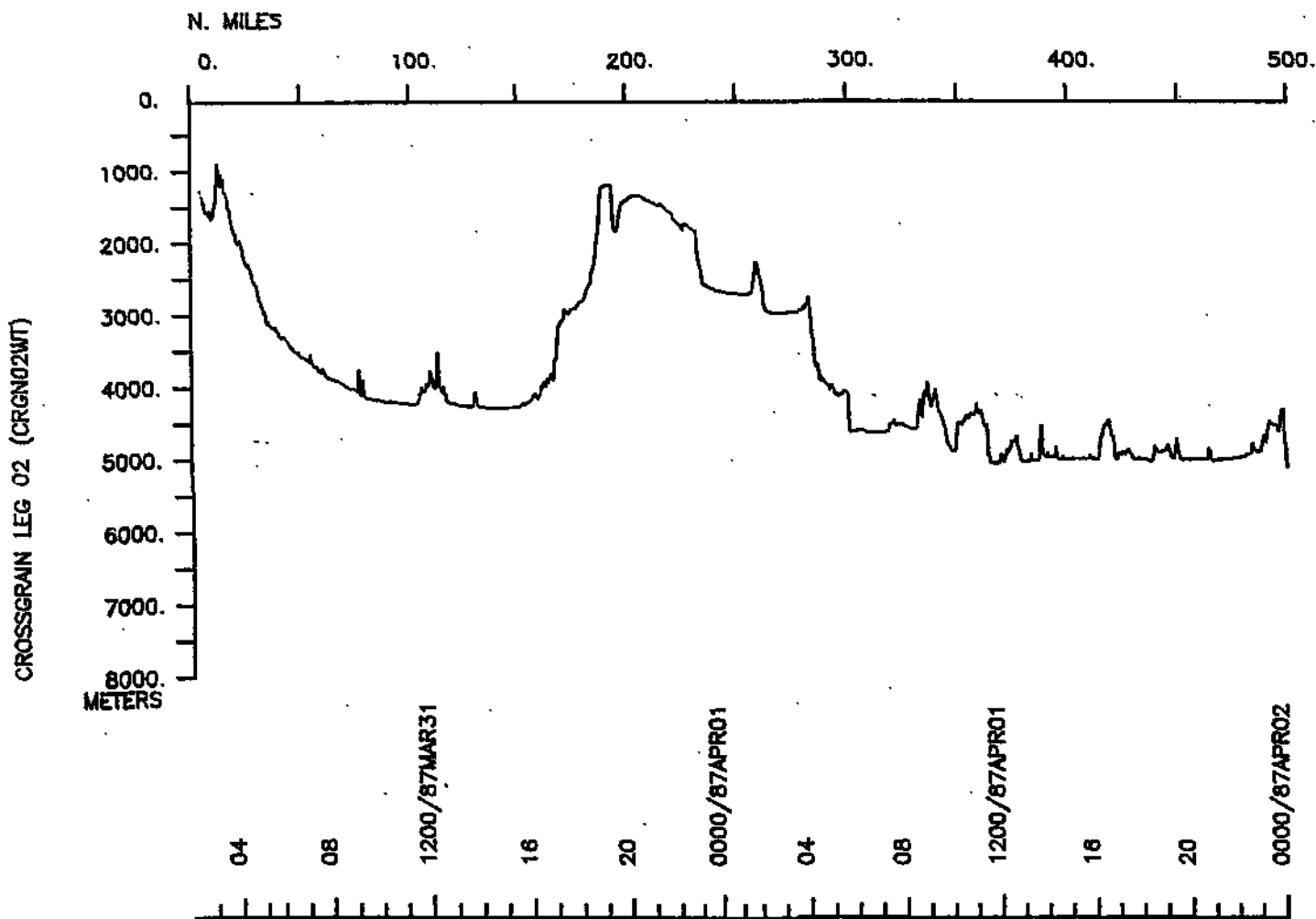
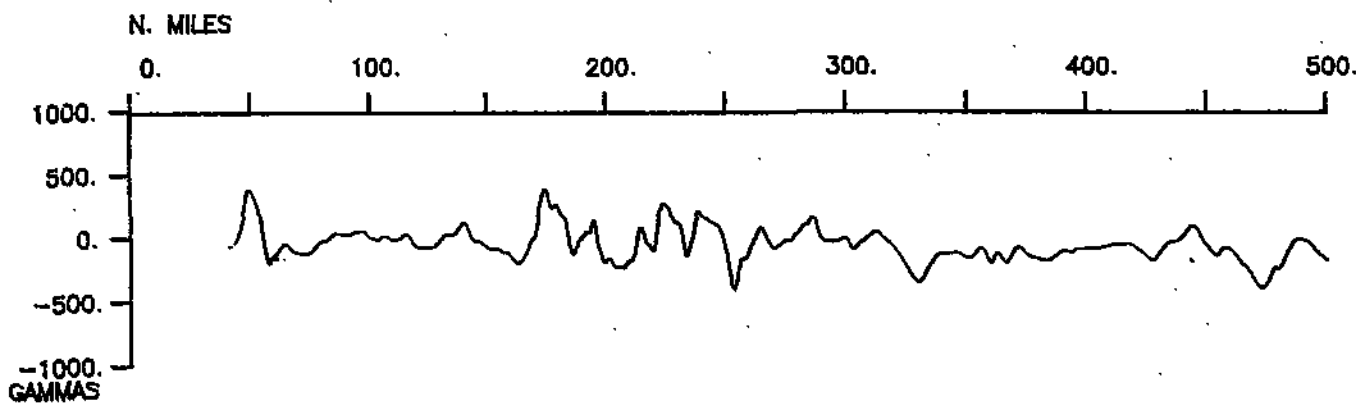
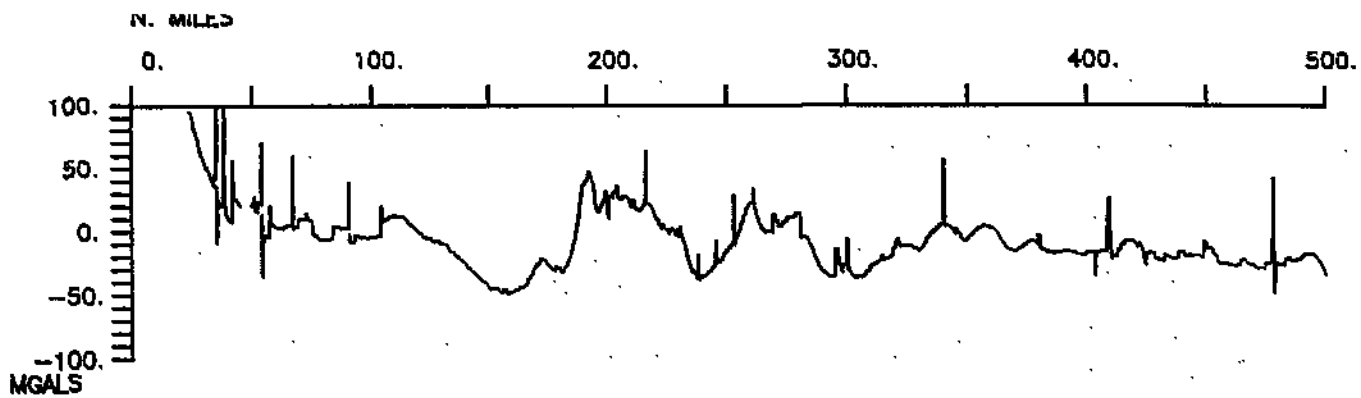
CROSSGRAIN LEG 2
Track at .1632in/deg (CRGN02WT)

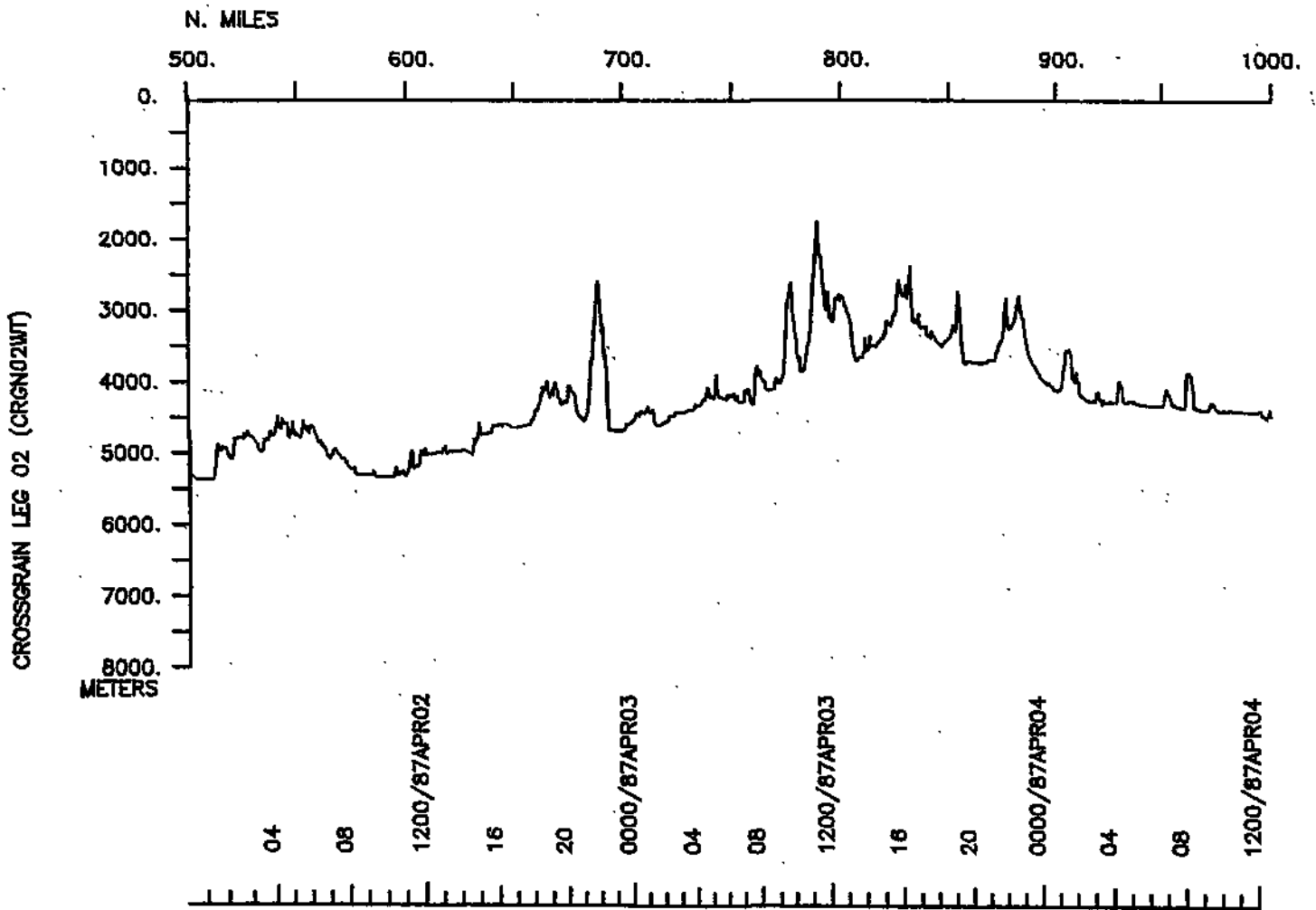
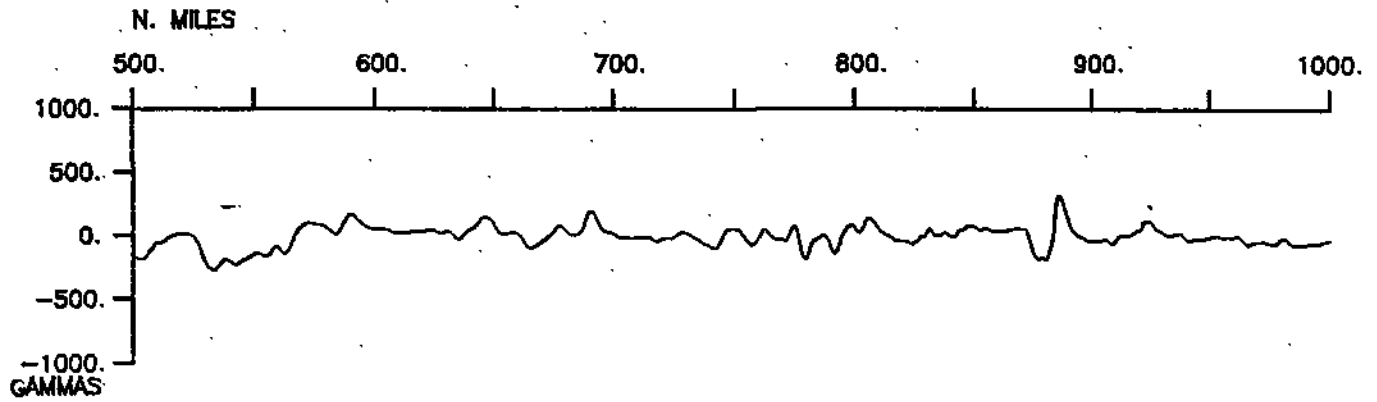
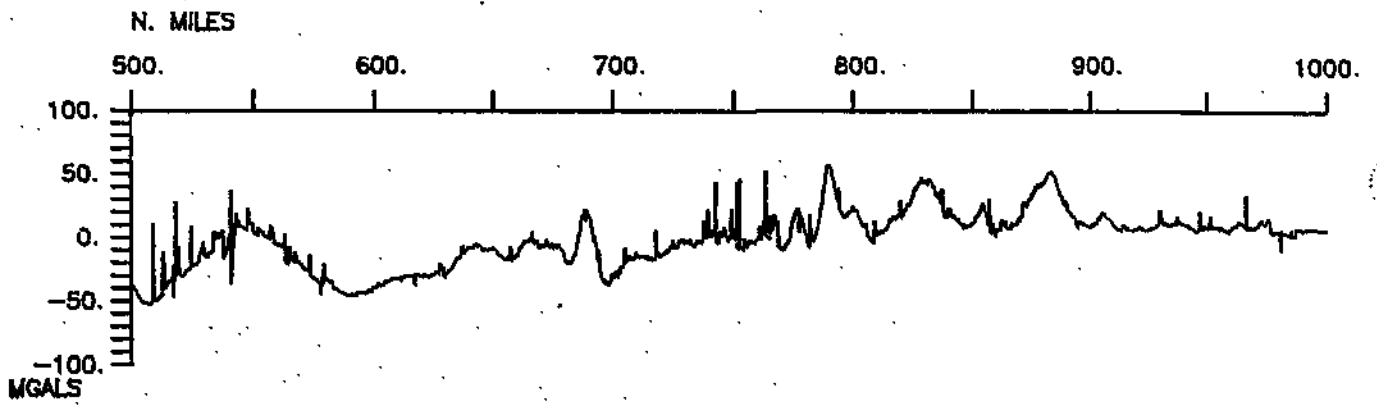
CROSSGRAIN EXPEDITION
LEG 2

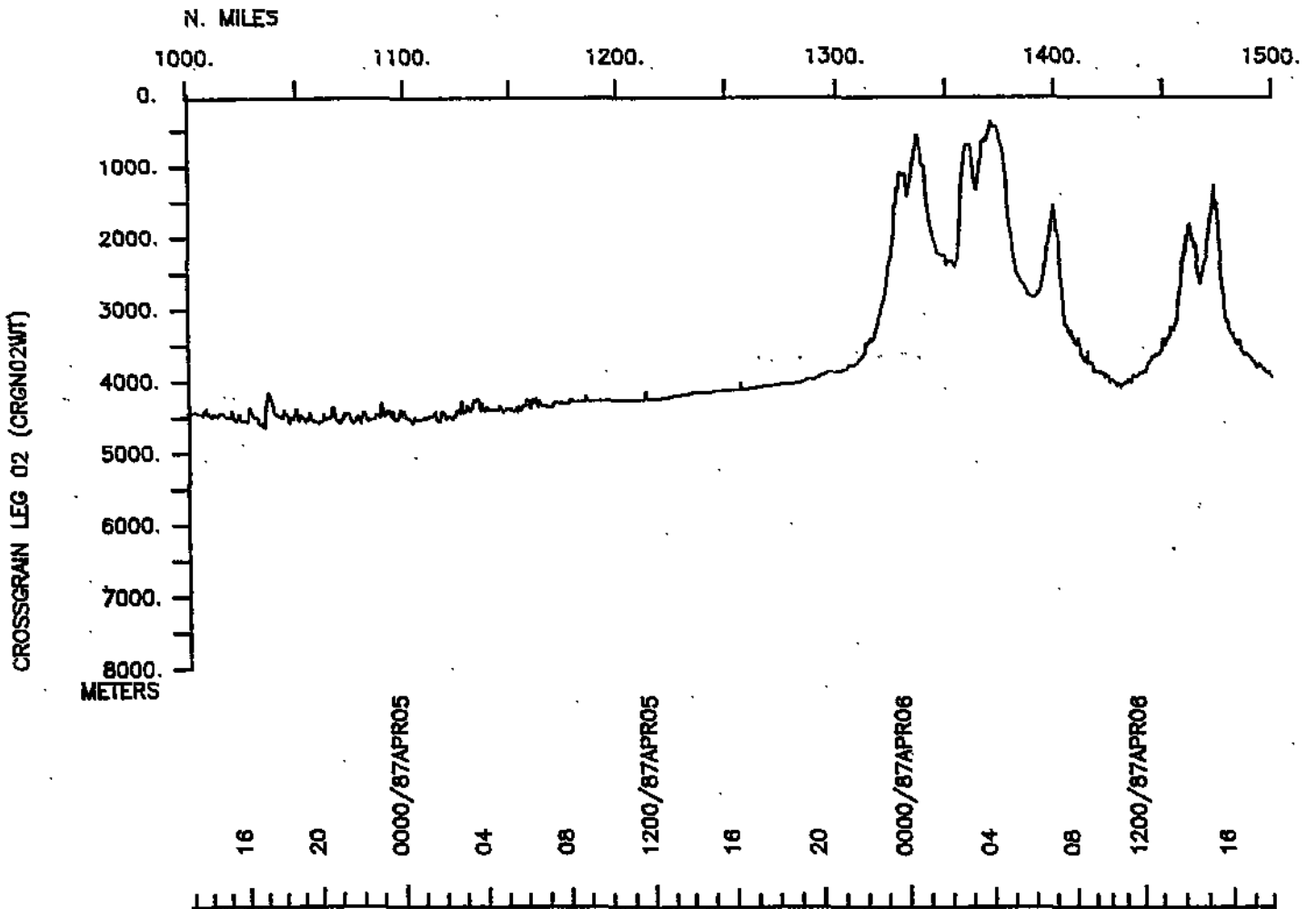
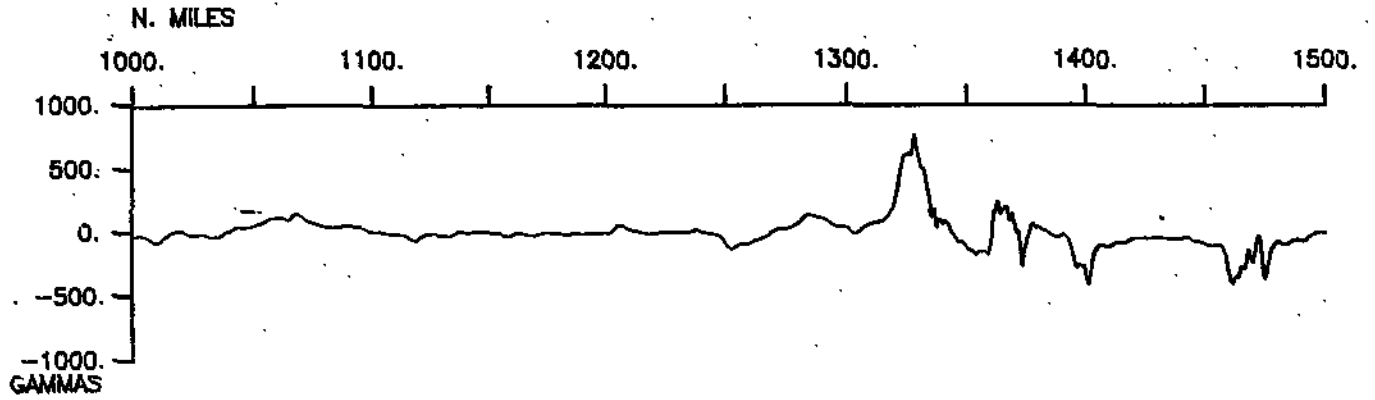
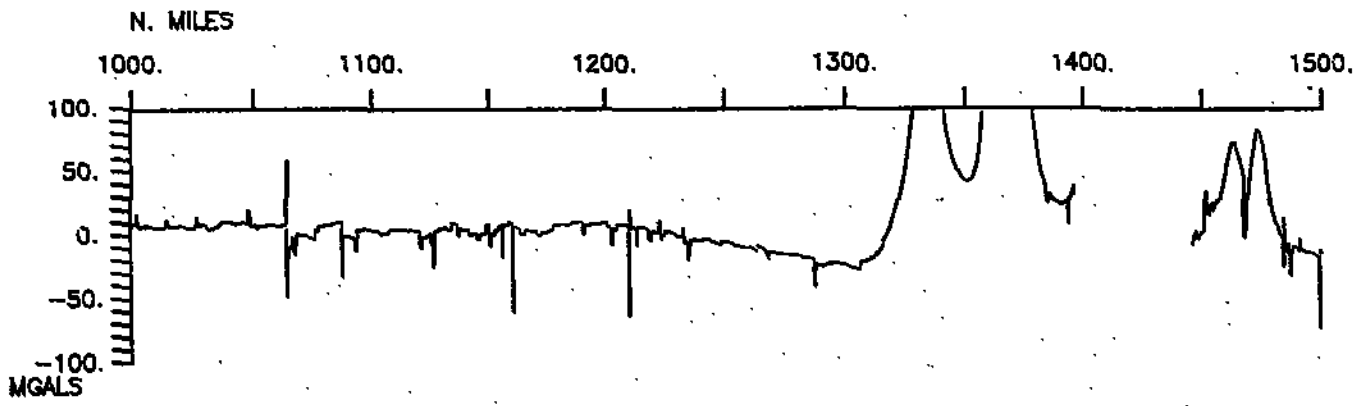
CO-CHIEF SCIENTISTS: M. McNutt (MIT) & J. Natland (SIO)
PORTS: Tahiti - Tahiti
DATES: 31 March - 25 April 1987
SHIP: R/V T. Washington

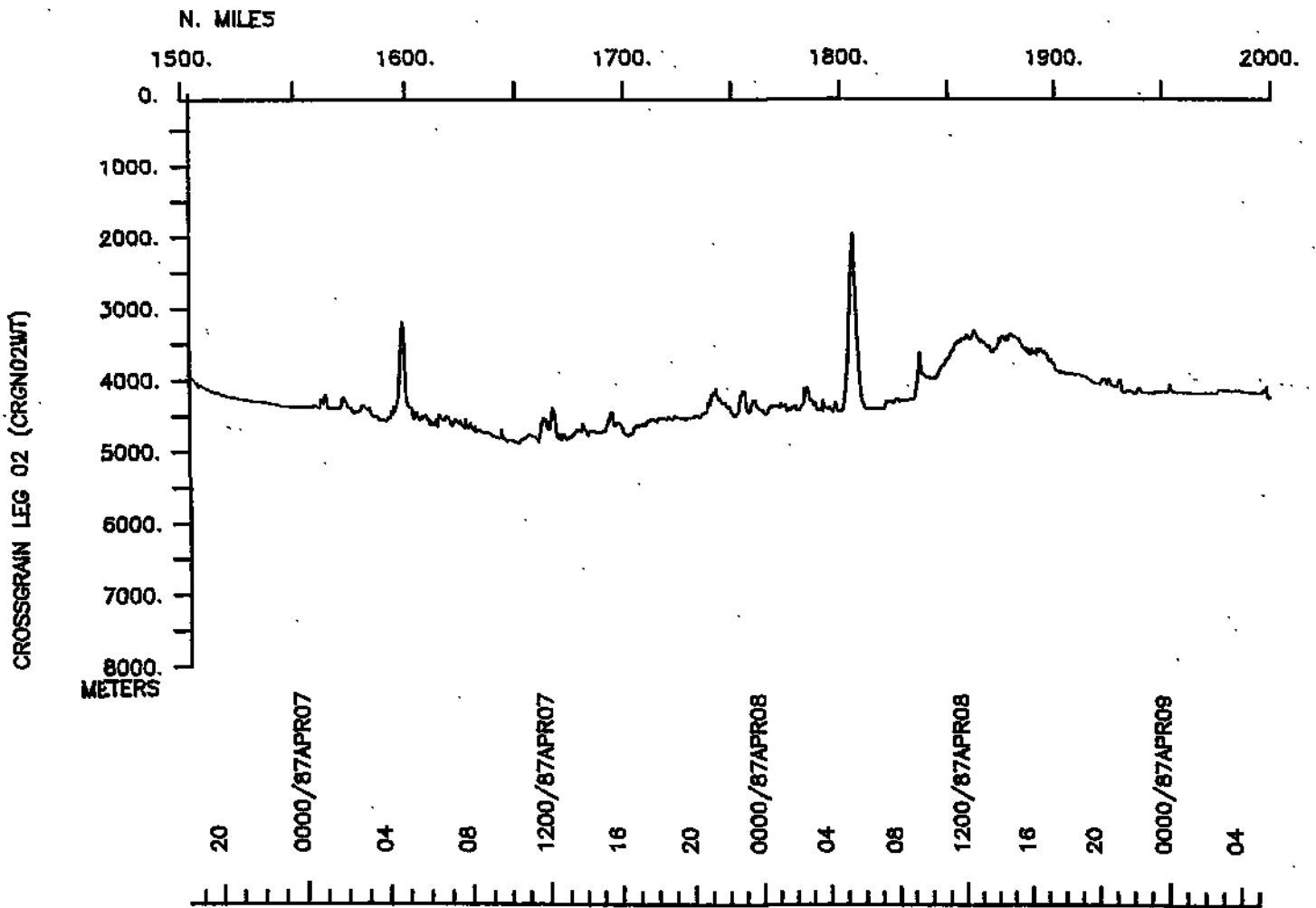
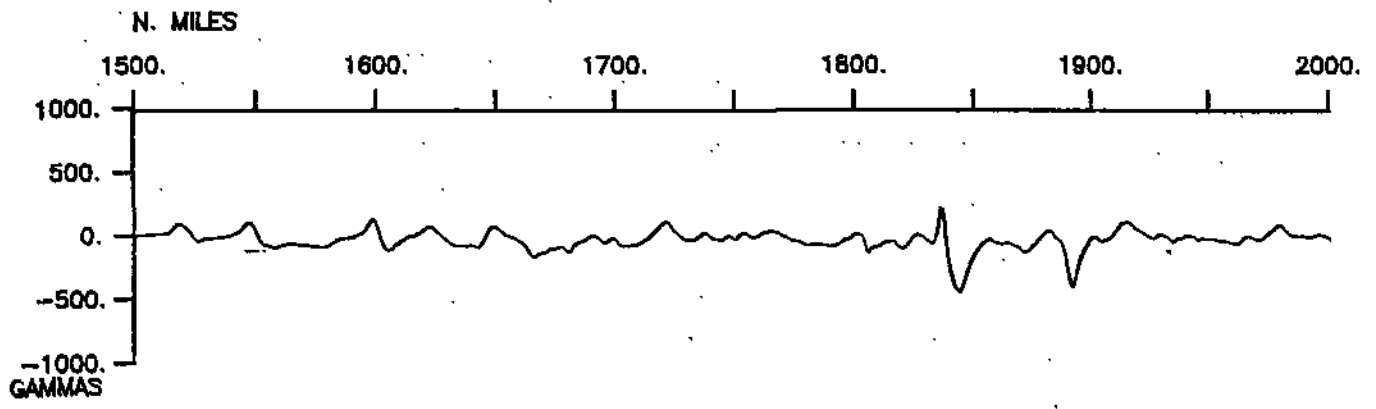
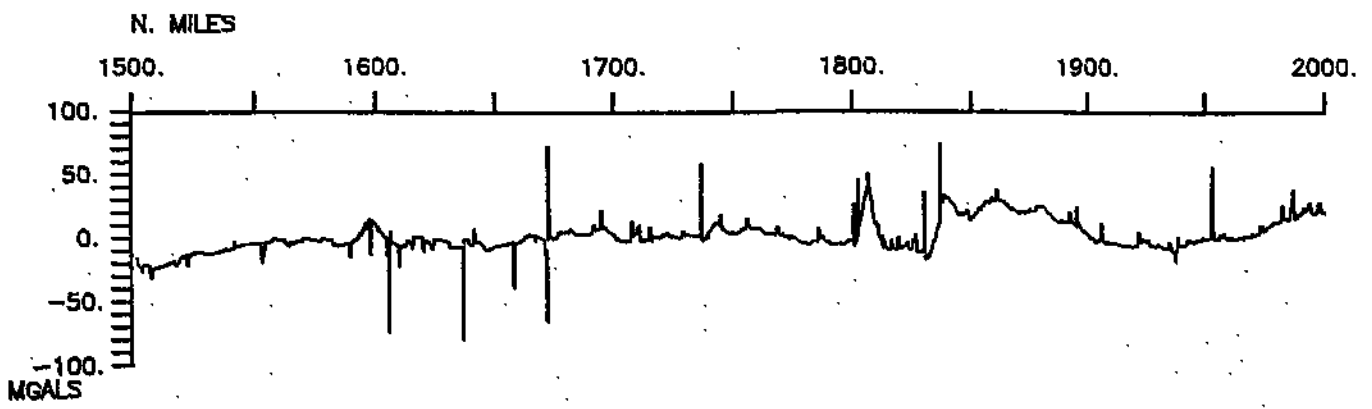
TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

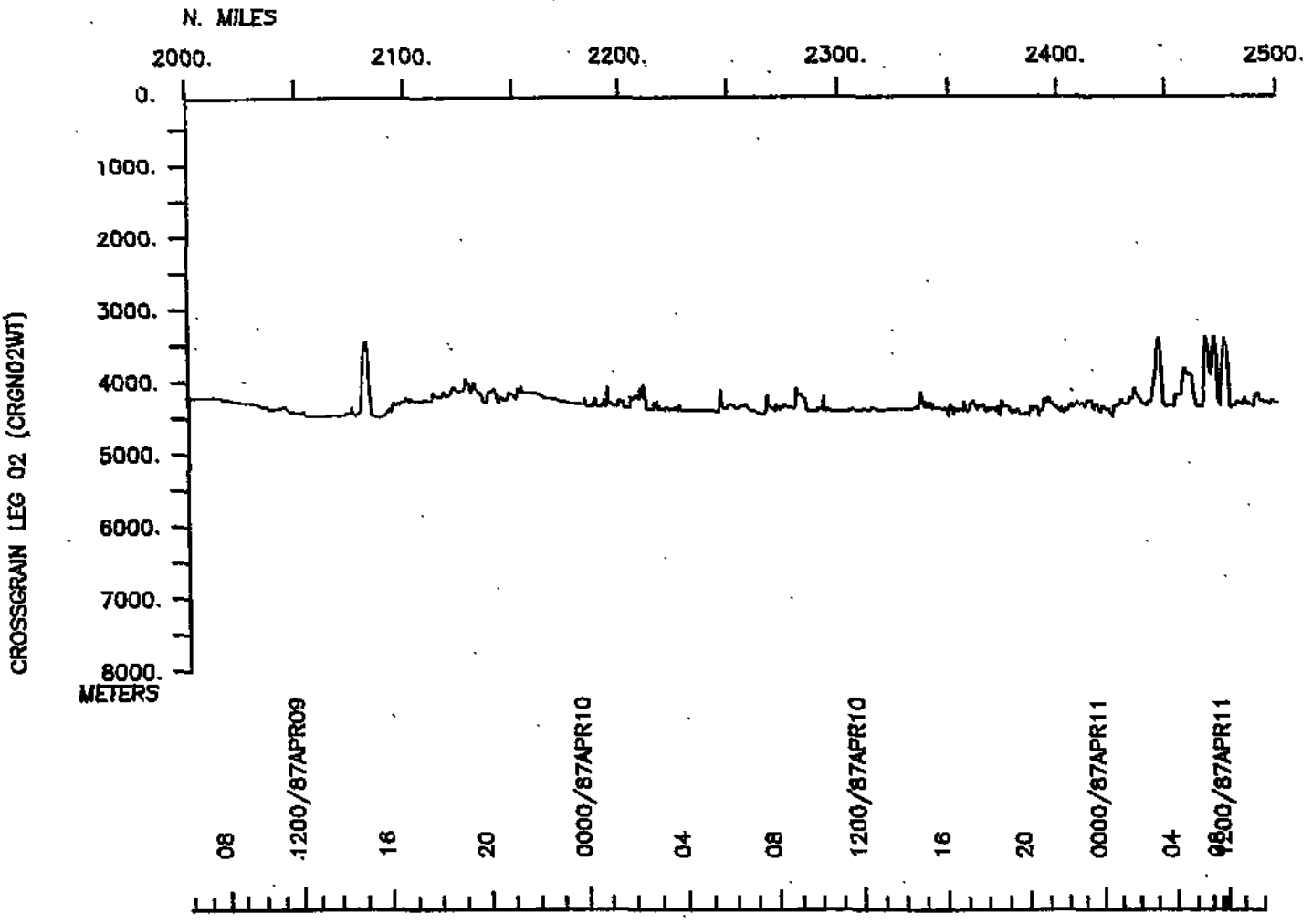
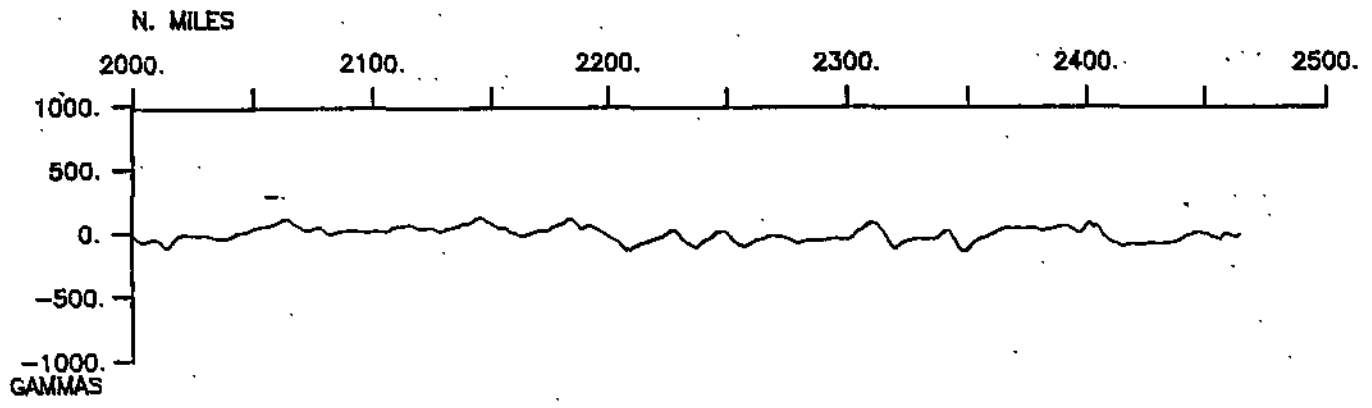
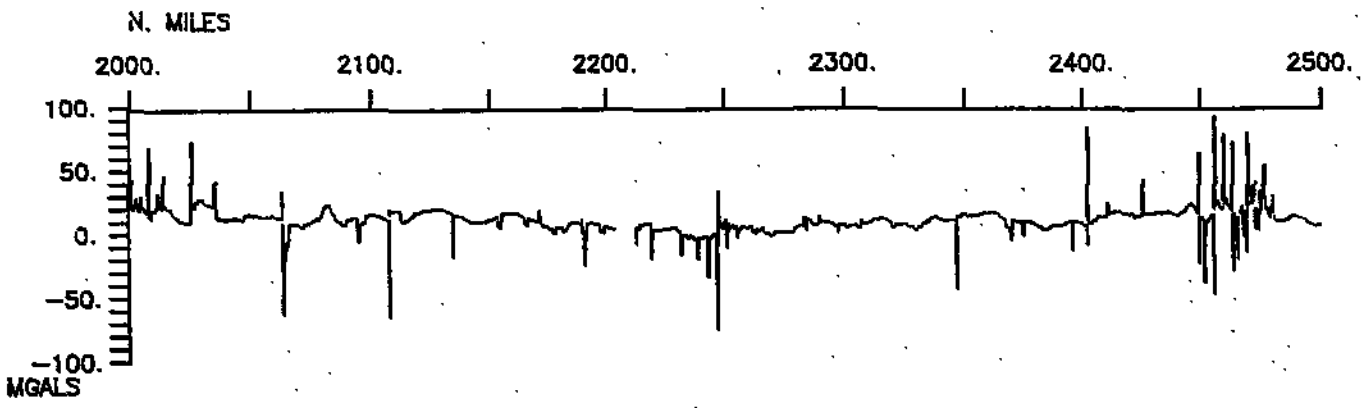
- 1) Cruise - 5127 miles
- 2) Bathymetry - 5120 miles
- 3) Magnetics - 2988 miles
- 4) Seismic Reflection - 2955 miles
- 5) Gravity - 5057 miles
- 6) SeaBeam - 5120 miles

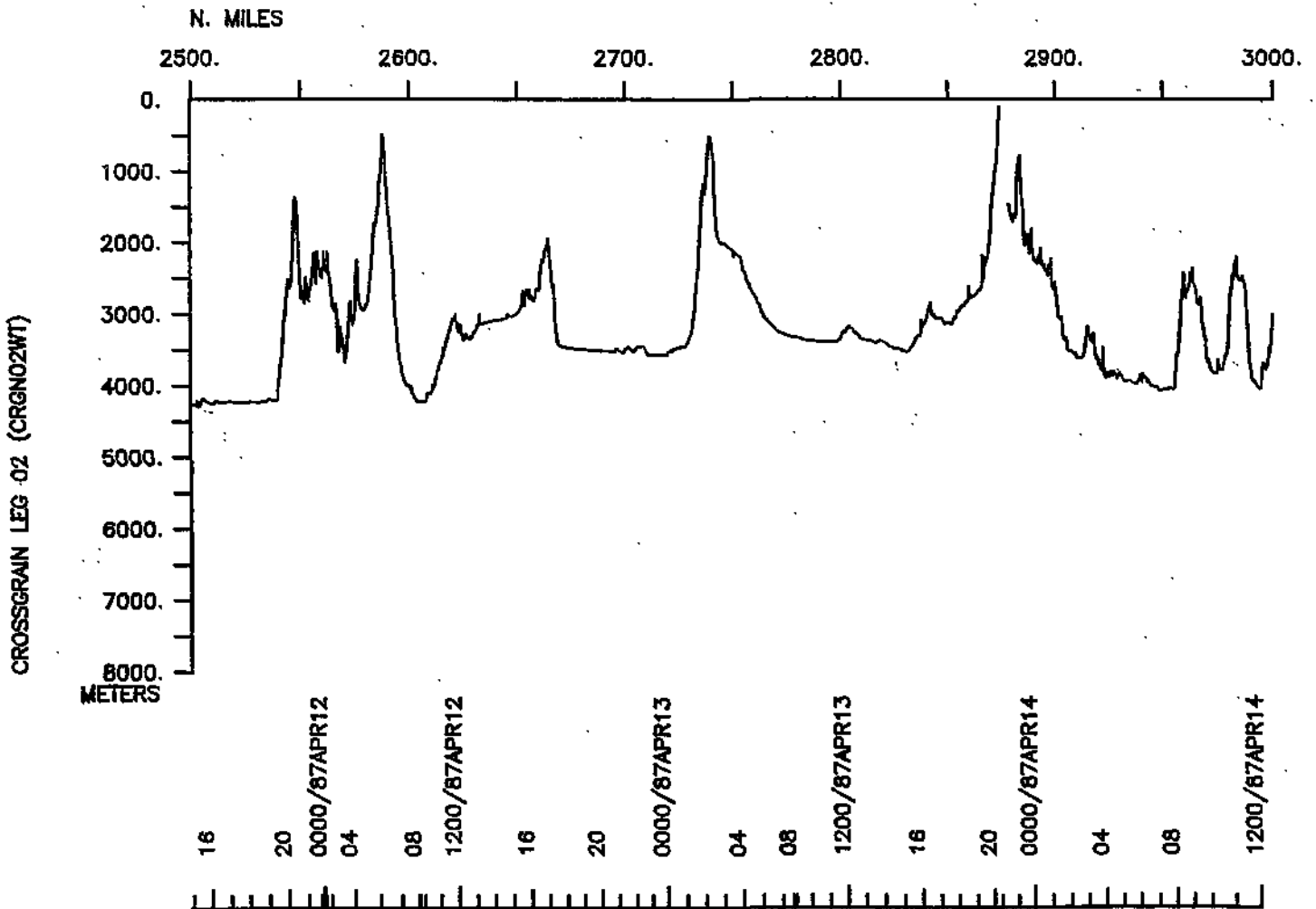
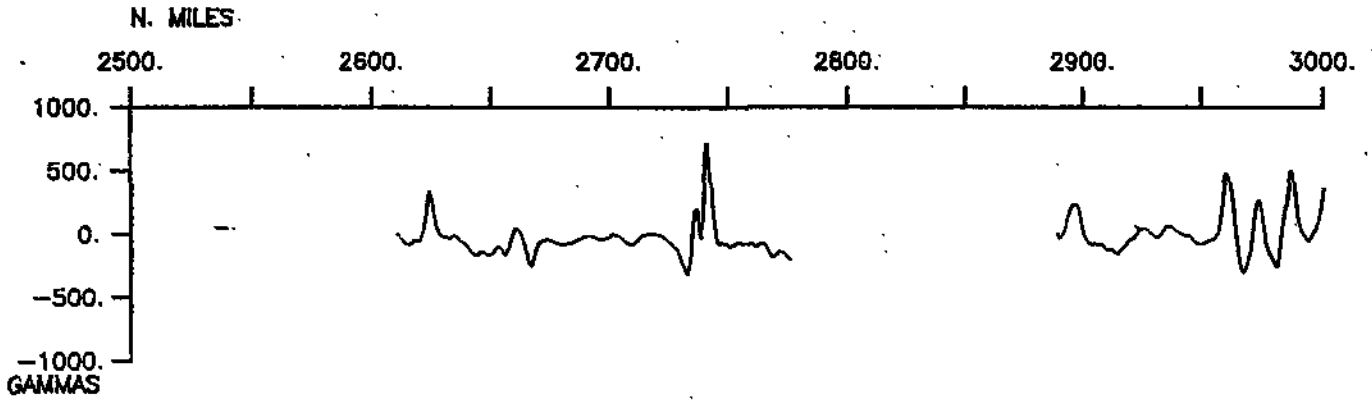
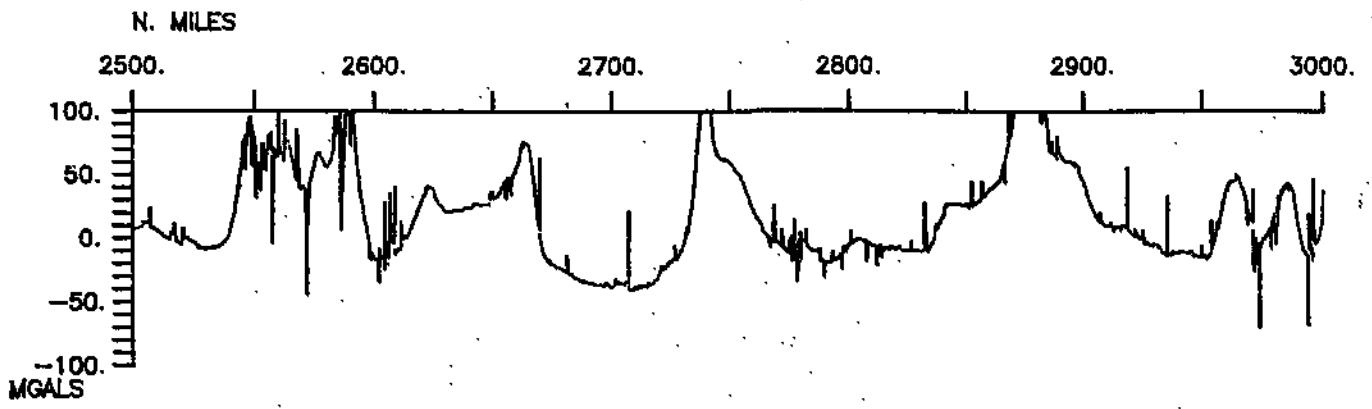


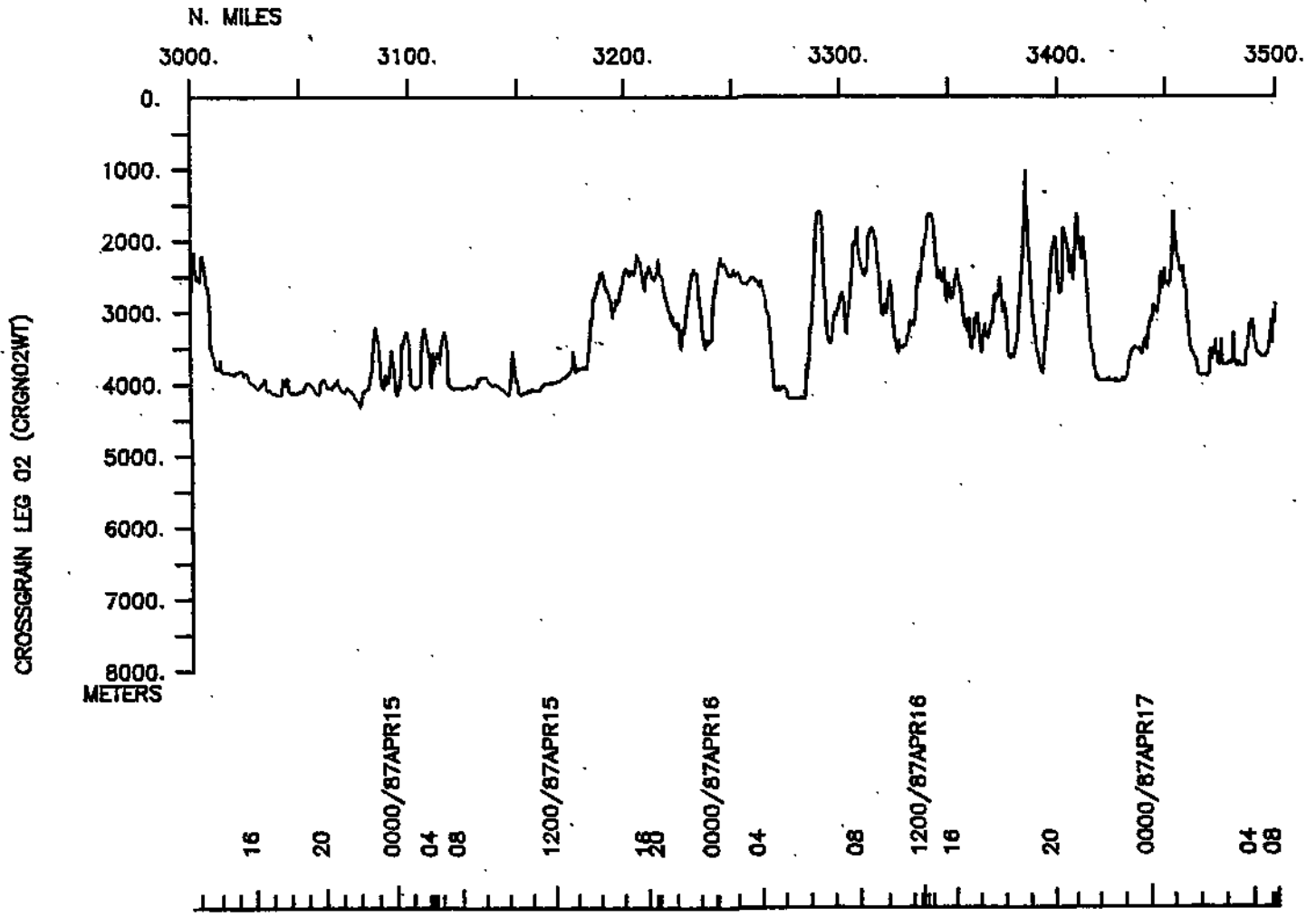
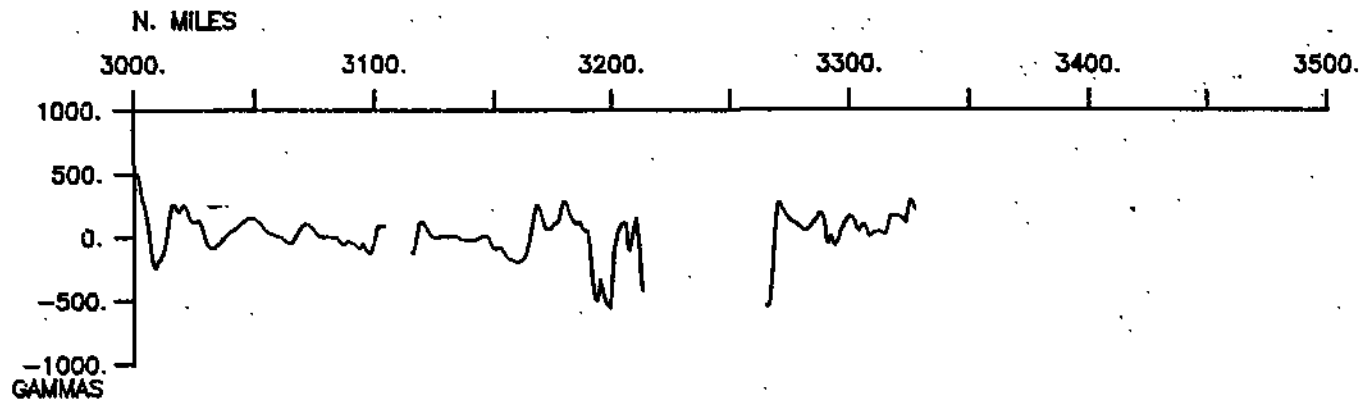
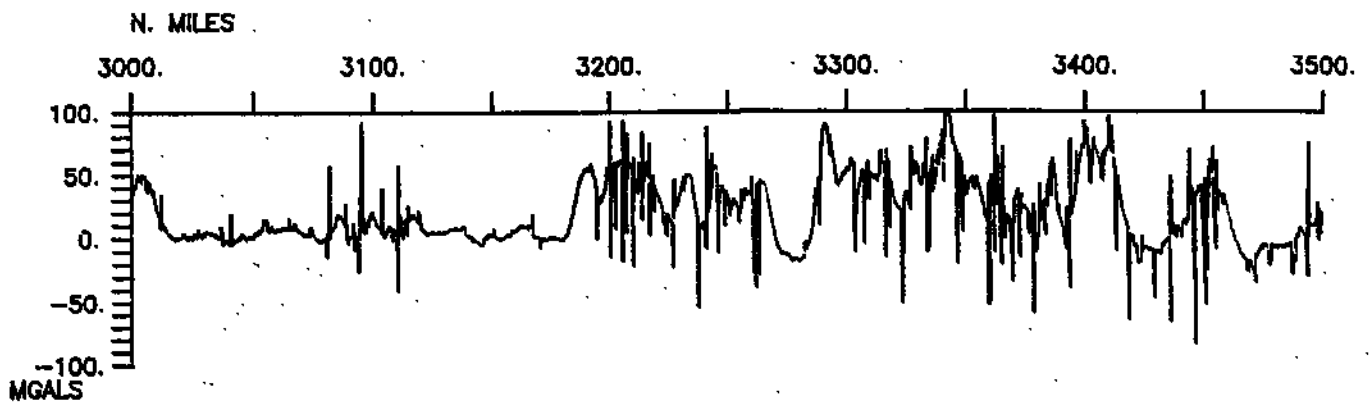


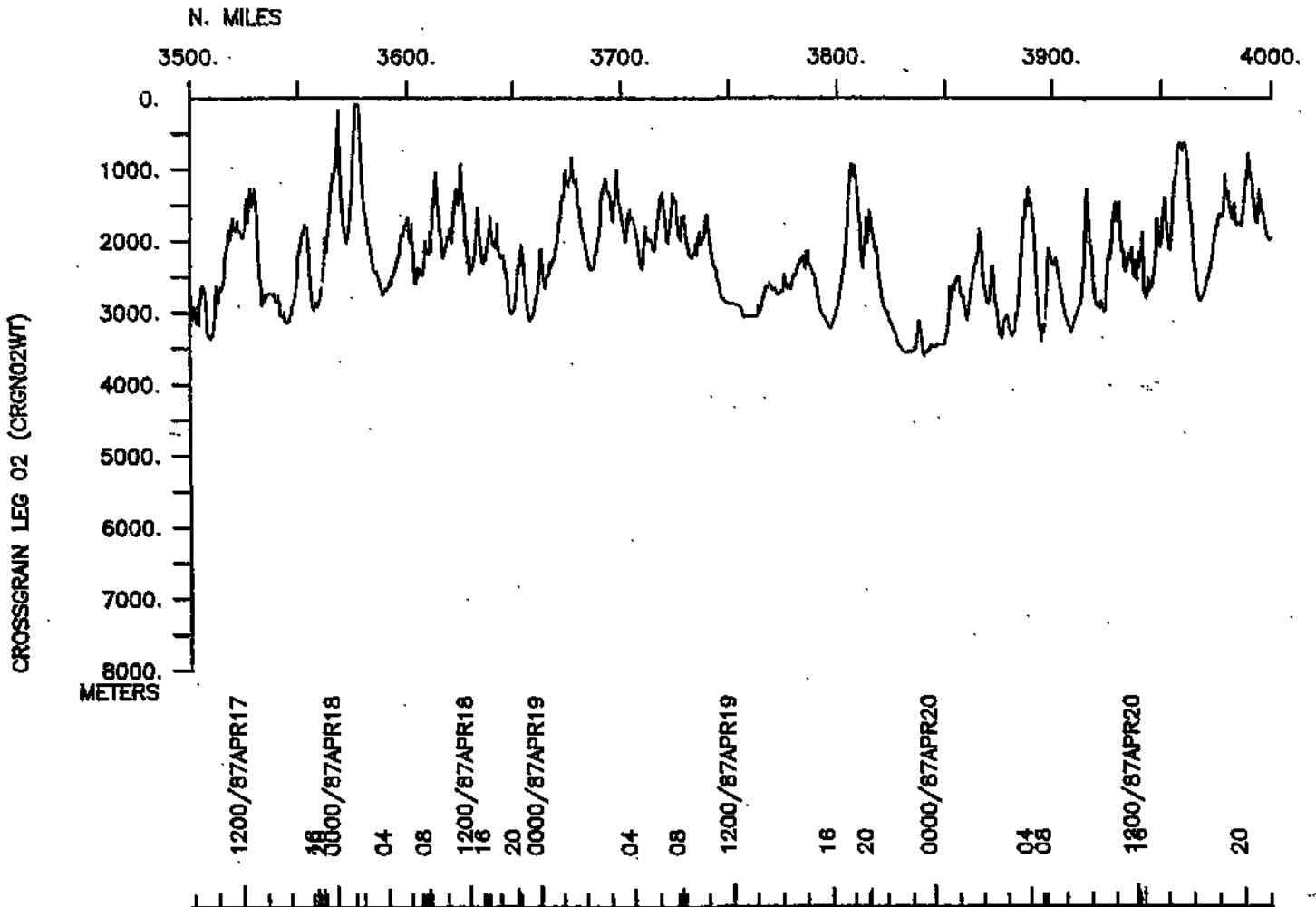
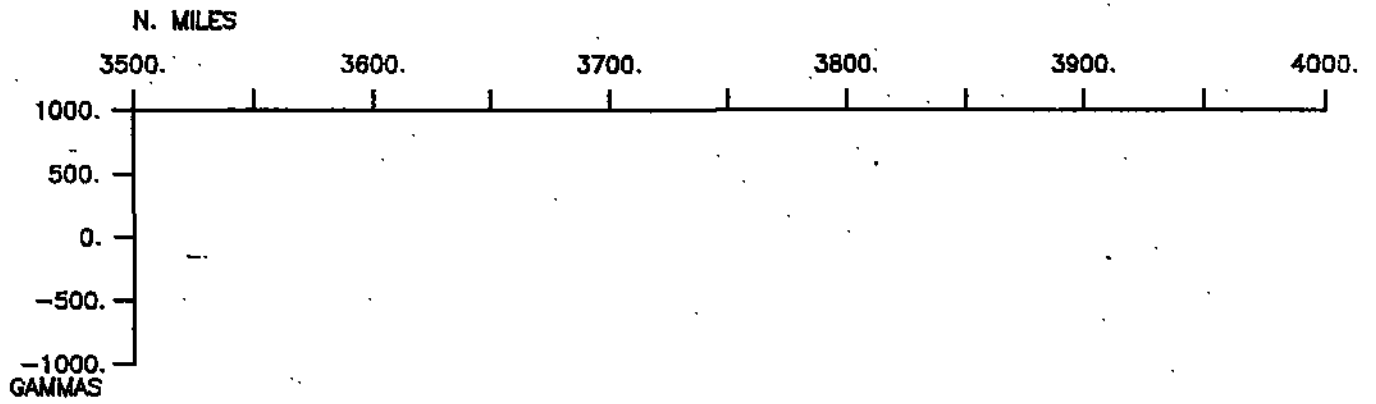
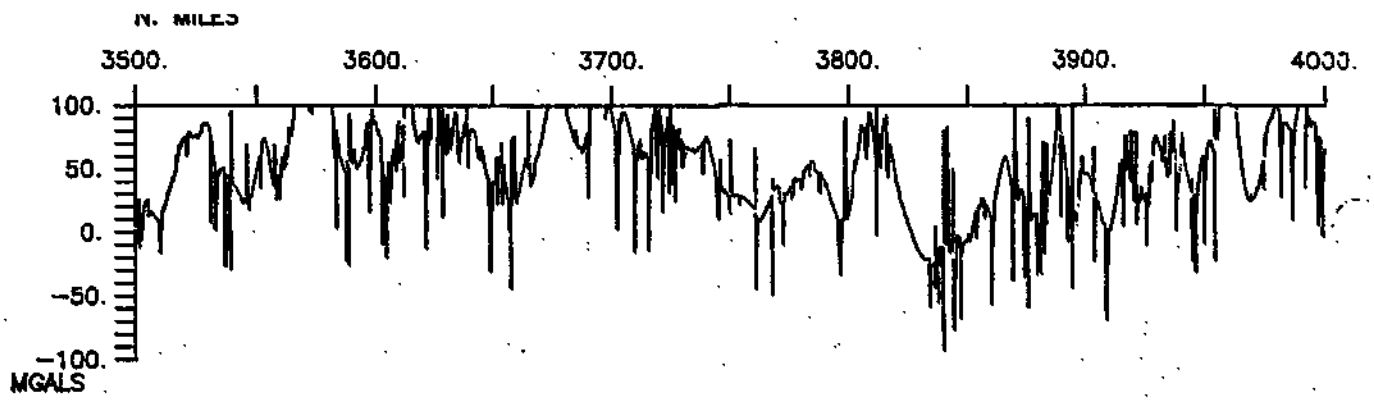


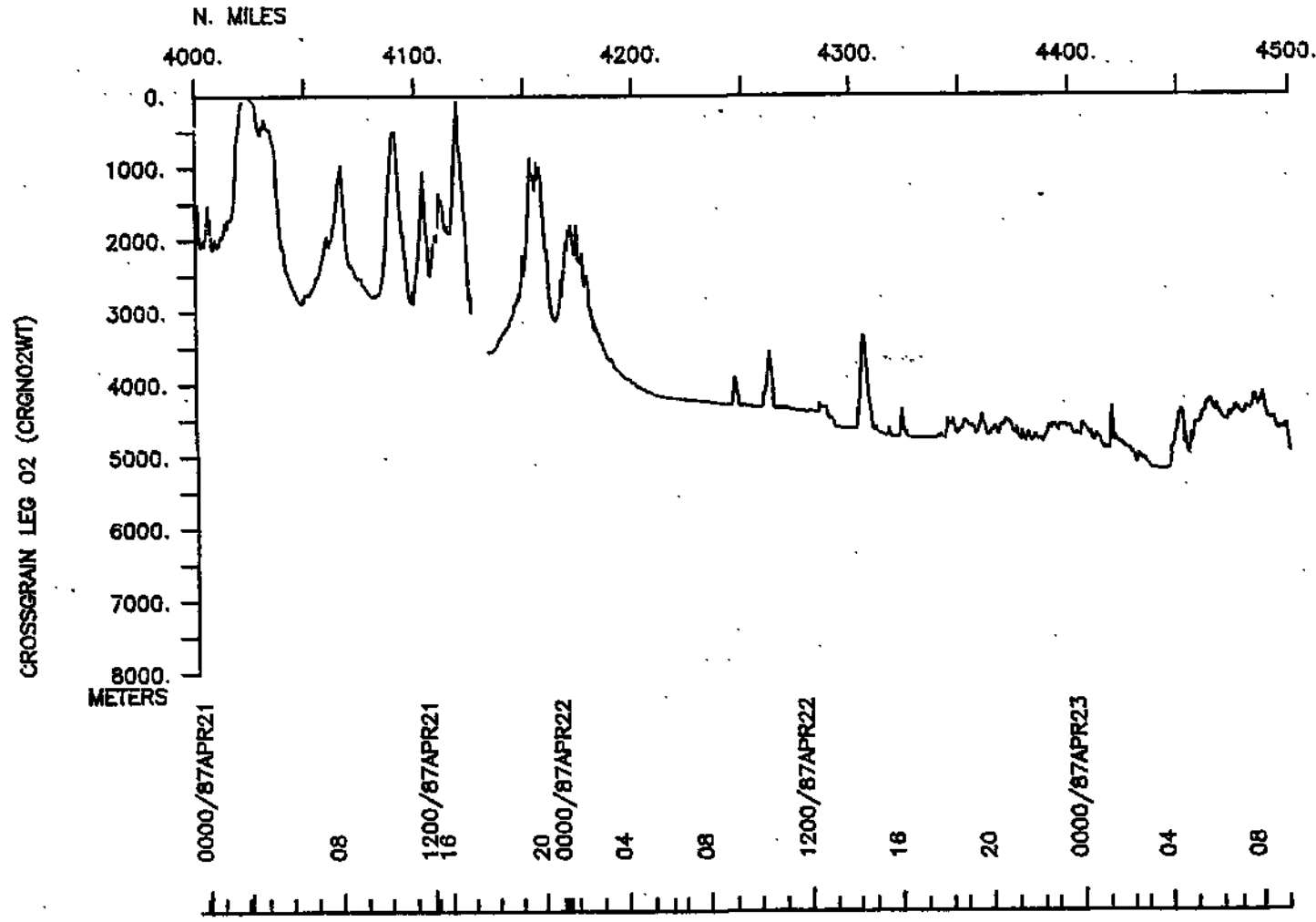
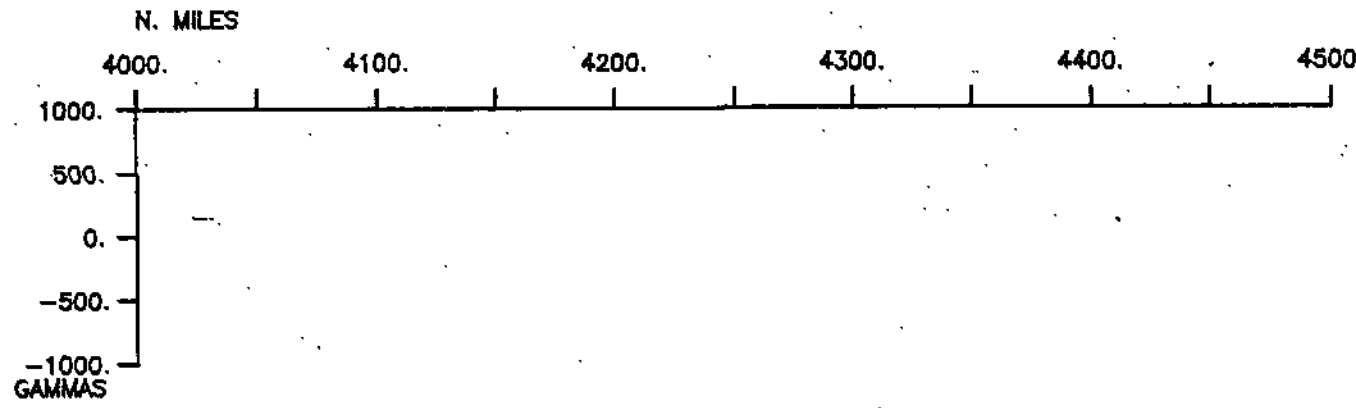
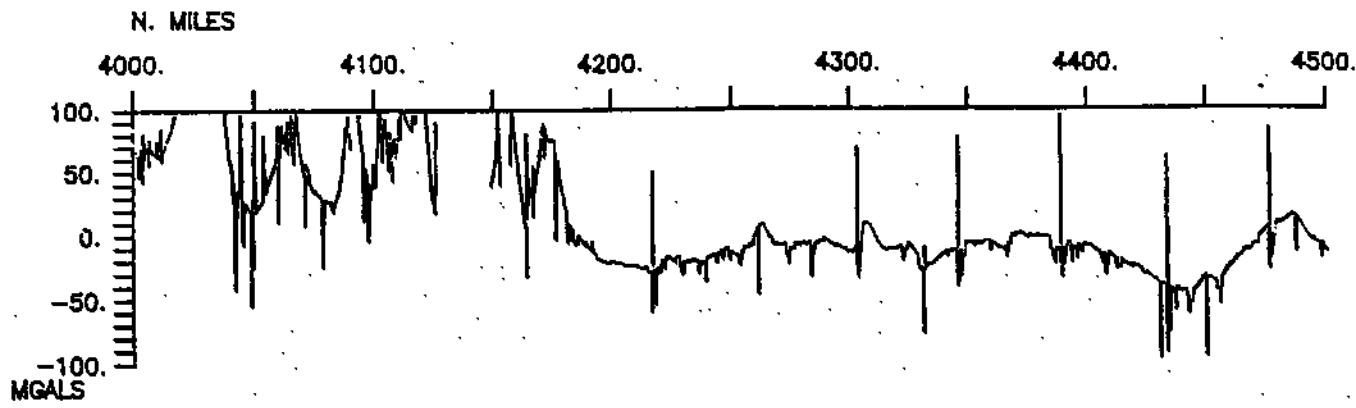


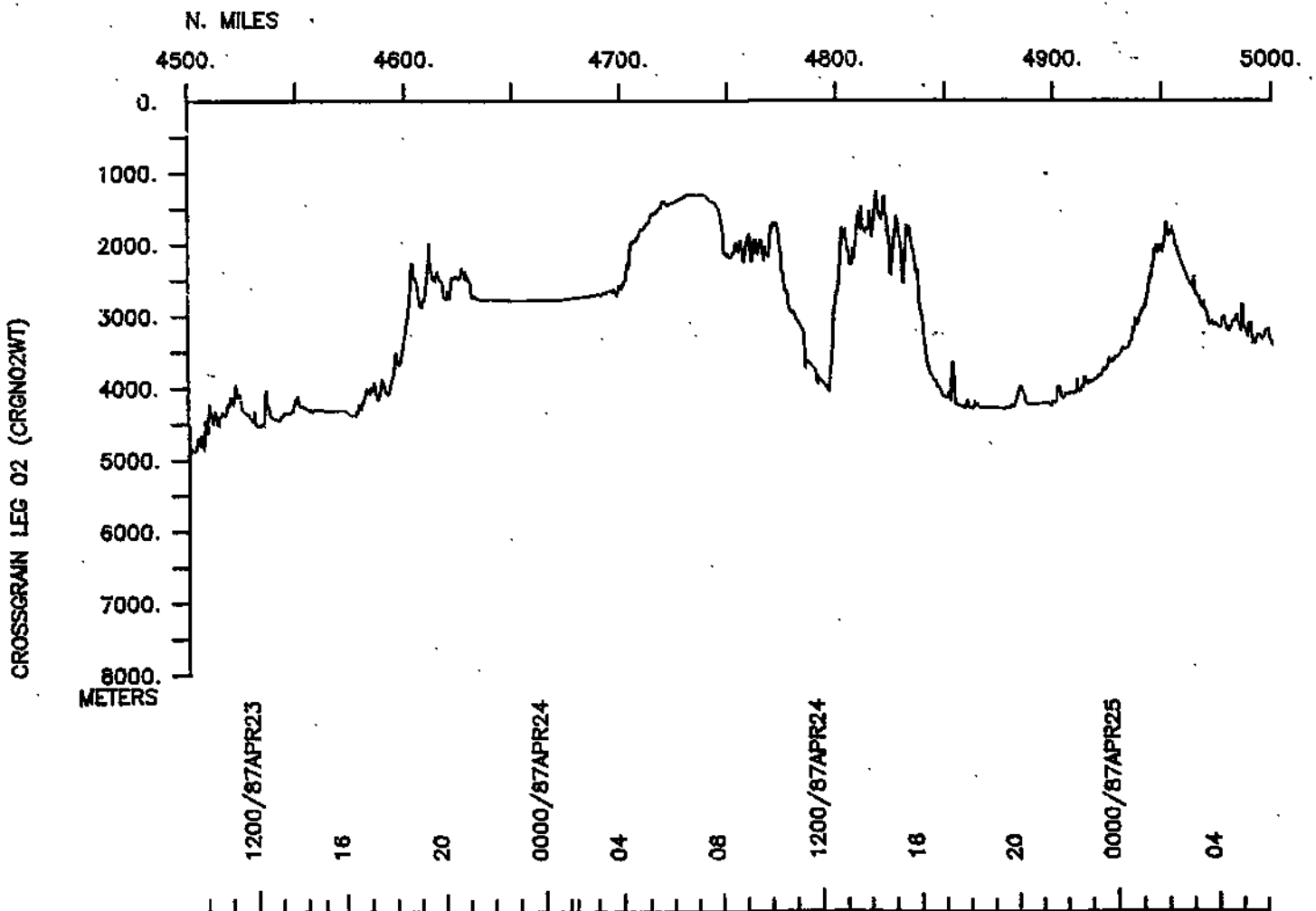
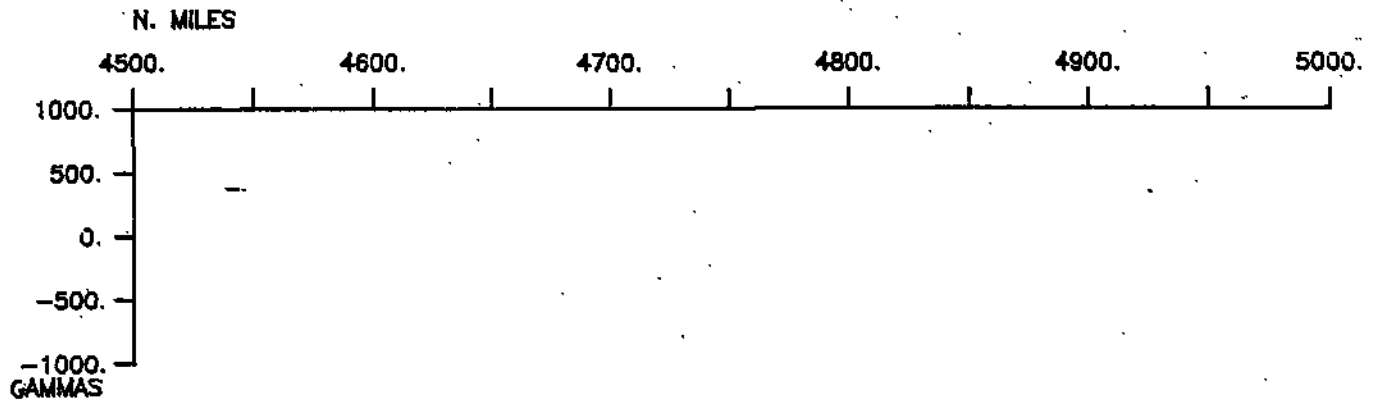
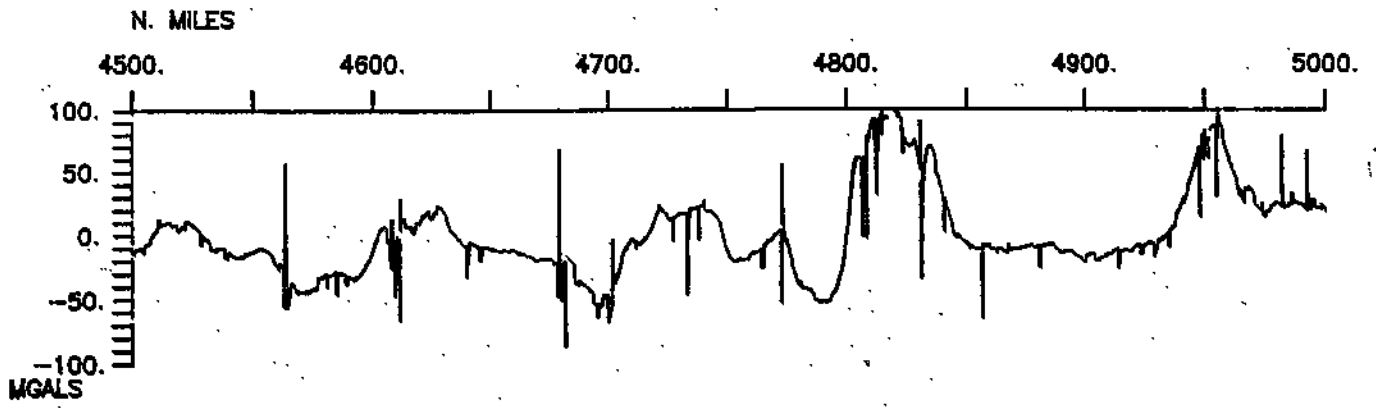


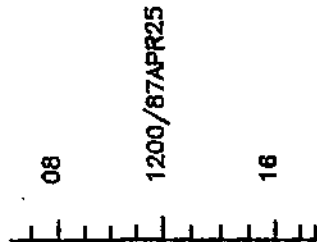
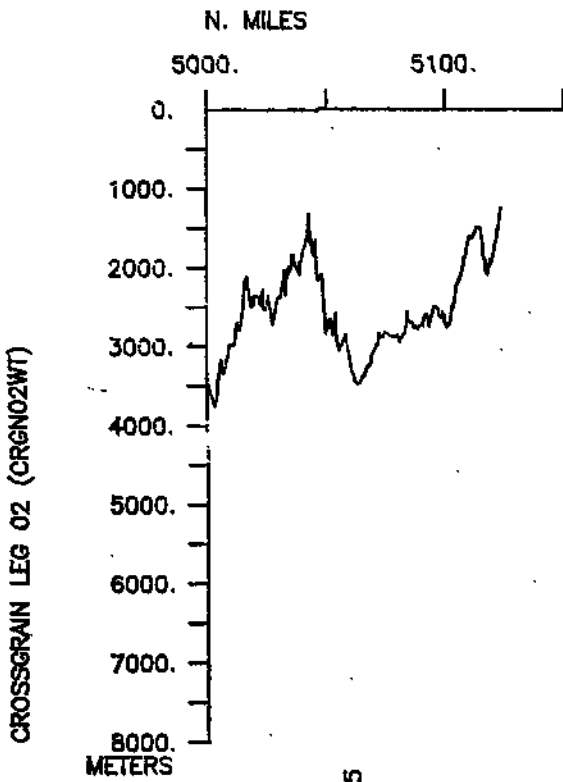
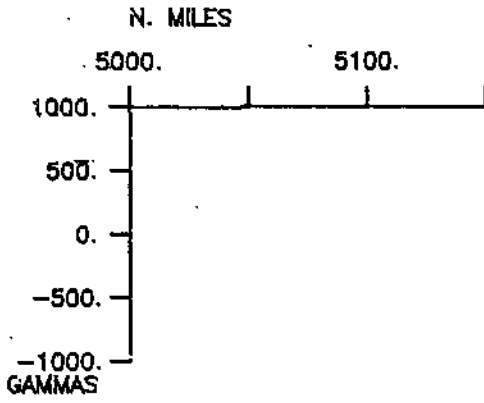
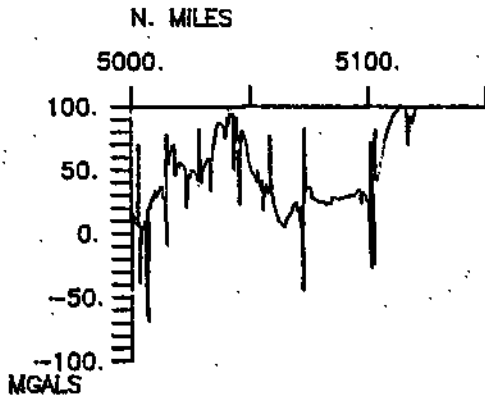












S.I.O. SAMPLE INDEX

(Issued September 1987)

CROSSGRAIN EXPEDITION

Leg 2

Papeete, Tahiti (31 March 1987)
to
Papeete, Tahiti (25 April 1987)

R/V Washington

Co-Chief Scientists - M. McNutt & J. Natland

Post-Cruise Processing and Report Preparation
by S.I.O. Geological Data Center

Index Encoding Funded by NSF
Grant Number OCE86-16368
Index Processing and Report Preparation
funded in part by SIA

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. #228

PORTS

0200	310387	LGPT B	PAPEETE, TAHITI	17-32 S	149-34 W	fCRGNO2WT
1800	250487	LGPT E	PAPEETE, TAHITI	17-32 S	149-34 W	fCRGNO2WT
2031	130487	LGUS B	FATU HIVA	10-277S	138-403W	sCRGNO2WT
2115	130487	LGUS E	FATU HIVA	10-278S	138-402W	sCRGNO2WT
0010	180487	LGUS B	FATU HIVA	10-308S	138-445W	sCRGNO2WT
0242	180487	LGUS E	FATU HIVA	10-278S	138-406W	sCRGNO2WT
0237	210487	LGUS B	NUKA HIVA	8-56 S	140-05 W	fCRGNO2WT
0417	210487	LGUS E	NUKA HIVA	8-56 S	140-05 W	fCRGNO2WT

PERSONNEL

#	**NAME**	**TITLE**	**INSTITUTION**	**CRID**
PECS GRD	NATLAND, J.	CHIEF SCIENTIST	SCRIPPS INSTITUTION	CRGNO2WT
PECS MIT	MCNUTT, M.	CHIEF SCIENTIST	MASS.INST.TECHNOLOGY	CRGNO2WT
PEBO STS	ALBRIGHT, U.	SEABEAM OPERATOR	SCRIPPS INSTITUTION	CRGNO2WT
PESP SIX	BARSCZUS, H.	OBSERVER	FRANCE	CRGNO2WT
PERT STS	BOAZ, J.	RESIDENT TECH	SCRIPPS INSTITUTION	CRGNO2WT
PEST GRD	CHENG, Q.	STUDENT	SCRIPPS INSTITUTION	CRGNO2WT
PESP STS	CRAMPTON, P.	AIRGUN TECH	SCRIPPS INSTITUTION	CRGNO2WT
PEST OSU	DESONIE, D.	STUDENT	OREGON STATE UNIV.	CRGNO2WT
PESP GRD	GUENTHER, P.	SPECIALIST	SCRIPPS INSTITUTION	CRGNO2WT
PESP SIX	DIAMENT, M.	OBSERVER	UNIVERSITY of PARIS	CRGNO2WT
PEST MIT	FILMER, P.	STUDENT	MASS.INST.TECHNOLOGY	CRGNO2WT
PESP MIT	FISCHER, K.	ASSISTANT	MASS.INST.TECHNOLOGY	CRGNO2WT
PEBE STS	HYLAS, T.	SEABEAM TECH	SCRIPPS INSTITUTION	CRGNO2WT
PEST MIT	JOHNSON, K.	STUDENT	MASS.INST.TECHNOLOGY	CRGNO2WT
PEST MIT	KRUSE, S.	STUDENT	MASS.INST.TECHNOLOGY	CRGNO2WT
PECT STS	MOORE, M.	COMPUTER TECH	SCRIPPS INSTITUTION	CRGNO2WT
PESP MIT	SHURE, L.	PROGRAMMER	MASS.INST.TECHNOLOGY	CRGNO2WT

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 Z	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
*** UNDERWAY DATA CURATOR - S. M. SMITH EXT. 42752 ***									
*** LOG BOOKS ***									
0200	033187			LBWU	B UNDERWAY WATCH LOG	GDC	17-292S	149-347W	sCRGNO2WT
1717	250487			LBWU	E UNDERWAY WATCH LOG	GDC	17-292S	149-399W	sCRGNO2WT
*** SINGLE SONOBUOY SEISMIC RUN ***									
2343	030487			SRSS	B SEIS RUN CRGNO2-01	GDC	10-148S	137-381W	sCRGNO2WT
0149	040487			SRSS	E UR/AG/WG/SD/AN/DG	GDC	10-070S	137-227W	sCRGNO2WT
1149	050487			SRSS	B SEIS RUN CRGNO2-02	GDC	8-595S	137-310W	sCRGNO2WT
1246	050487			SRSS	E UR/AG/SD/AN/DG	GDC	8-599S	137-405W	sCRGNO2WT
1248	050487			SRSS	B SEIS RUN CRGNO2-03	GDC	8-599S	137-408W	sCRGNO2WT
1345	050487			SRSS	E UR/AG/SD/AN/DG	GDC	9-001S	137-491W	sCRGNO2WT
1111	060487			SRSS	B SEIS RUN CRGNO2-04	GDC	9-004S	141-072W	sCRGNO2WT
1245	060487			SRSS	E UR/AG/SD/AN/DG	GDC	9-002S	140-542W	sCRGNO2WT
1651	060487			SRSS	B SEIS RUN CRGNO2-05	GDC	8-598S	140-540W	sCRGNO2WT
1658	060487			SRSS	E UR/AG/SD/AN/DG	GDC	8-597S	140-552W	sCRGNO2WT
1702	060487			SRSS	B SEIS RUN CRGNO2-06	GDC	8-596S	140-558W	sCRGNO2WT
1705	060487			SRSS	E UR/AG/SD/AN/DG	GDC	8-596S	140-563W	sCRGNO2WT
1710	060487			SRSS	B SEIS RUN CRGNO2-07	GDC	8-595S	140-570W	sCRGNO2WT
1725	060487			SRSS	E UR/AG/SD/AN/DG	GDC	8-594S	140-591W	sCRGNO2WT
1727	060487			SRSS	B SEIS RUN CRGNO2-08	GDC	8-593S	140-594W	sCRGNO2WT
1833	060487			SRSS	E UR/AG/SD/AN/DG	GDC	8-588S	141-085W	sCRGNO2WT
0923	070487			SRSS	B SEIS RUN CRGNO2-09	GDC	9-006S	143-301W	sCRGNO2WT
1004	070487			SRSS	E UR/AG/SD/AN/DG	GDC	9-005S	143-357W	sCRGNO2WT
1006	070487			SRSS	B SEIS RUN CRGNO2-10	GDC	9-005S	143-360W	sCRGNO2WT
1106	070487			SRSS	E UR/AG/SD/AN/DG	GDC	9-000S	143-445W	sCRGNO2WT
0637	080487			SRSS	B SEIS RUN CRGNO2-11	GDC	8-019S	141-467W	sCRGNO2WT
0730	080487			SRSS	E UR/AG/SD/AN/DG	GDC	7-589S	141-405W	sCRGNO2WT
0707	090487			SRSS	B SEIS RUN CRGNO2-12	GDC	6-423S	138-472W	sCRGNO2
0800	090487			SRSS	E UR/AG/SD/AN/DG	GDC	6-389S	138-407W	sCRGNO2WT

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

0952	050487			DPR3 B	3.5KHZ R-01	GDC	8-597S	137-122W	sCRGNO2WT
0347	070487			DPR3 E	3.5KHZ R-01	GDC	8-587S	142-364W	sCRGNO2WT
0359	070487			DPR3 B	3.5KHZ R-02	GDC	8-587S	142-383W	sCRGNO2WT
0505	110487			DPR3 E	3.5KHZ R-02	GDC	7-114S	142-175W	sCRGNO2WT
0728	110487			DPR3 B	3.5KHZ R-03	GDC	7-129S	142-173W	sCRGNO2WT
0108	160487			DPR3 E	3.5KHZ R-03	GDC	10-599S	136-440W	sCRGNO2WT
0213	160487			DPR3 B	3.5KHZ R-04	GDC	11-004S	136-438W	sCRGNO2WT
2056	160487			DPR3 E	3.5KHZ R-04	GDC	10-449S	137-268W	sCRGNO2WT
2100	160487			DPR3 B	3.5KHZ R-05	GDC	10-442S	137-267W	sCRGNO2WT
2210	180487			DPR3 E	3.5KHZ R-05	GDC	10-315S	138-497W	sCRGNO2WT
2225	180487			DPR3 B	3.5KHZ R-06	GDC	10-315S	138-497W	sCRGNO2WT
0155	220487			DPR3 E	3.5KHZ R-06	GDC	9-286S	140-116W	sCRGNO2WT
0203	220487			DPR3 B	3.5KHZ R-07	GDC	9-299S	140-111W	sCRGNO2WT
0711	220487			DPR3 E	3.5KHZ R-07	GDC	10-048S	140-447W	sCRGNO2WT

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

0230	310387			MGRA B	MAGNETICS R-01	GDC	17-291S	149-346W	sCRGNO2WT
2337	100487			MGRA E	MAGNETICS R-01	GDC	7-128S	142-489W	sCRGNO2WT
2344	100487			MGRA B	MAGNETICS R-02	GDC	7-127S	142-480W	sCRGNO2WT
0929	160487			MGRA E	MAGNETICS R-02	GDC	10-458S	137-080W	sCRGNO2WT

SEABEAM ARCHIVE SWATH BOOKS

0229	310387			MBSB B	ARCHIVE SWATH	01	GDC	17-292S	149-347W	sCRGNO2WT
0005	020487			MBSB E	ARCHIVE SWATH	01	GDC	12-428S	143-380W	sCRGNO2WT
0007	020487			MBSB B	ARCHIVE SWATH	02	GDC	12-426S	143-377W	sCRGNO2WT
1220	040487			MBSB E	ARCHIVE SWATH	02	GDC	9-291S	136-022W	sCRGNO2WT
1220	040487			MBSB B	ARCHIVE SWATH	03	GDC	9-291S	136-022W	sCRGNO2WT
.651	060487			MBSB E	ARCHIVE SWATH	03	GDC	8-598S	140-540W	sCRGNO2WT

#GMT #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER		DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1651	060487			MBSB B	ARCHIVE SWATH	04	GDC	8-598S	140-540W	sCRGNO2WT
0328	090487			MBSB E	ARCHIVE SWATH	04	GDC	6-548S	139-149W	sCRGNO2WT
0328	090487			MBSB B	ARCHIVE SWATH	05	GDC	6-548S	139-149W	sCRGNO2WT
0905	110487			MBSB E	ARCHIVE SWATH	05	GDC	7-133S	142-181W	sCRGNO2WT
0936	110487			MBSB B	ARCHIVE SWATH	06	GDC	7-133S	142-185W	sCRGNO2WT
0531	140487			MBSB E	ARCHIVE SWATH	06	GDC	11-038S	138-084W	sCRGNO2WT
0533	140487			MBSB B	ARCHIVE SWATH	07	GDC	11-040S	138-082W	sCRGNO2WT
1652	160487			MBSB E	ARCHIVE SWATH	07	GDC	10-405S	137-091W	sCRGNO2WT
1652	160487			MBSB B	ARCHIVE SWATH	08	GDC	10-405S	137-091W	sCRGNO2WT
0738	190487			MBSB E	ARCHIVE SWATH	08	GDC	10-241S	138-298W	sCRGNO2WT
0740	190487			MBSB B	ARCHIVE SWATH	09	GDC	10-241S	138-299W	sCRGNO2WT
1930	210487			MBSB E	ARCHIVE SWATH	09	GDC	9-210S	140-099W	sCRGNO2WT
1930	210487			MBSB B	ARCHIVE SWATH	10	GDC	9-210S	140-099W	sCRGNO2WT
2051	230487			MBSB E	ARCHIVE SWATH	10	GDC	14-274S	145-467W	sCRGNO2WT
2051	230487			MBSB B	ARCHIVE SWATH	11	GDC	14-274S	145-467W	sCRGNO2WT
1700	250487			MBSB E	ARCHIVE SWATH	11	GDC	17-292S	149-399W	sCRGNO2WT

*** 12 KHZ SEABEAM MONITOR RECORDS ***

0229	310387			MBRM B	SEABEAM MONITOR	R-01	GDC	17-292S	149-347W	sCRGNO2WT
0403	010487			MBRM E	SEABEAM MONITOR	R-01	GDC	14-221S	146-260W	sCRGNO2WT
0428	010487			MBRM B	SEABEAM MONITOR	R-02	GDC	14-185S	146-231W	sCRGNO2WT
2130	040487			MBRM E	SEABEAM MONITOR	R-02	GDC	8-597S	135-109W	sCRGNO2WT
2244	040487			MBRM B	SEABEAM MONITOR	R-03	GDC	8-597S	135-224W	sCRGNO2WT
0950	050487			MBRM E	SEABEAM MONITOR	R-03	GDC	8-598S	137-119W	sCRGNO2WT
0952	050487			MBRM B	SEABEAM MONITOR	R-04	GDC	8-597S	137-122W	sCRGNO2WT
1301	120487			MBRM E	SEABEAM MONITOR	R-04	GDC	8-119S	141-118W	sCRGNO2WT
1304	120487			MBRM B	SEABEAM MONITOR	R-05	GDC	8-118S	141-114W	sCRGNO2WT
0558	180487			MBRM E	SEABEAM MONITOR	R-05	GDC	10-229S	138-476W	sCRGNO2WT
0610	180487			MBRM B	SEABEAM MONITOR	R-06	GDC	10-230S	138-473W	sCRGNO2WT
2015	210487			MBRM E	SEABEAM MONITOR	R-06	GDC	9-251S	140-148W	sCRGNO2WT
2020	210487			MBRM B	SEABEAM MONITOR	R-07	GDC	9-251S	140-158W	sCRGNO2WT
1700	250487			MBRM E	SEABEAM MONITOR	R-07	GDC	17-292S	149-399W	sCRGNO2WT

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

0539	310387			SPRS	B SLOW SEISMICS	R-01	GDC 17-260S	149-013W	sCRGNO2WT
1429	050487			SPRS	E SLOW SEISMICS	R-01	GDC 9-000S	137-557W	sCRGNO2WT
1433	050487			SPRS	B SLOW SEISMICS	R-02	GDC 9-000S	137-564W	sCRGNO2WT
0616	130487			SPRS	E SLOW SEISMICS	R-02	GDC 9-209S	139-424W	sCRGNO2WT
0922	130487			SPRS	B SLOW SEISMICS	R-03	GDC 9-244S	139-404W	sCRGNO2WT
0114	150487			SPRS	E SLOW SEISMICS	R-03	GDC 12-023S	136-392W	sCRGNO2WT
0539	310387			SPRF	B FAST SEISMICS	R-01	GDC 17-260S	149-013W	sCRGNO2WT
2134	030487			SPRF	E FAST SEISMICS	R-01	GDC 10-229S	137-536W	sCRGNO2WT
2139	030487			SPRF	B FAST SEISMICS	R-02	GDC 10-226S	137-530W	sCRGNO2WT
2347	100487			SPRF	E FAST SEISMICS	R-02	GDC 7-127S	142-475W	sCRGNO2WT
2351	100487			SPRF	B FAST SEISMICS	R-03	GDC 7-126S	142-470W	sCRGNO2WT
0114	150487			SPRF	E FAST SEISMICS	R-03	GDC 12-023S	136-392W	sCRGNO2WT

*** HYDROCAST STATIONS ***

0616	220487			HCNI	01	10	M H02	GRD 9-598S	140-390W	sCRGNO2WT
1354	220487			HCNI	02	10	M H02	GRD 11-004S	141-405W	sCRGNO2WT
1800	220487			HCNI	03	10	M H02	GRD 11-307S	142-105W	sCRGNO2WT
2225	220487			HCNI	04	10	M H02	GRD 11-589S	142-432W	sCRGNO2WT
0223	230487			HCNI	05	10	M H02	GRD 12-292S	143-146W	sCRGNO2WT
0643	230487			HCNI	06	10	M H02	GRD 13-000S	143-451W	sCRGNO2WT
1441	230487			HCNI	07	10	M H02	GRD 14-003S	144-481W	sCRGNO2WT
0110	240487			HCNI	08	10	M H02	GRD 14-498S	146-329W	sCRGNO2WT

*** DREDGE STATIONS ***

0711	110487			DRRO	B DREDGE D-04	4265M	GCR 7-128S	142-173W	sCRGNO2WT
1147	110487			DRRO	E DREDGE D-04	3348M	GCR 7-127S	142-191W	sCRGNO2WT
2209	110487			DRRO	B DREDGE D-05	2351M	GCR 7-569S	141-254W	sCRGNO2WT
0225	120487			DRRO	E DREDGE D-05	2285M	GCR 7-580S	141-261W	sCRGNO2WT
0245	150487			DRRO	B DREDGE D-08	3747M	GCR 12-061S	136-442W	sCRGNO2WT
0634	150487			DRRO	E DREDGE D-08	3553M	GCR 12-075S	136-431W	sCRGNO2WT

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1640	150487			DRRO B	DREDGE D-09	2544M	GCR 10-578S	136-284W	sCRGNO2WT
2013	150487			DRRO E	DREDGE D-09	2347M	GCR 10-594S	136-279W	sCRGNO2WT
2256	150487			DRRO B	DREDGE D-10	2816M	GCR 10-594S	136-435W	sCRGNO2WT
0157	160487			DRRO E	DREDGE D-10	2607M	GCR 10-599S	136-439W	sCRGNO2WT
1043	160487			DRRO B	DREDGE D-11	2509M	GCR 10-417S	137-018W	sCRGNO2WT
1410	160487			DRRO E	DREDGE D-11	2179M	GCR 10-409S	137-027W	sCRGNO2WT
0527	170487			DRRO B	DREDGE D-12	3145M	GCR 10-490S	138-259W	sCRGNO2WT
0938	170487			DRRO E	DREDGE D-12	2725M	GCR 10-485S	138-248W	sCRGNO2WT
1528	170487			DRRO B	DREDGE D-13	2838M	GCR 10-299S	138-510W	sCRGNO2WT
1913	170487			DRRO E	DREDGE D-13	2670M	GCR 10-310S	138-501W	sCRGNO2WT
1952	170487			DRRO B	DREDGE D-14	2338M	GCR 10-312S	138-492W	sCRGNO2WT
2317	170487			DRRO E	DREDGE D-14	1984M	GCR 10-319S	138-492W	sCRGNO2WT
0540	180487			DRRO B	DREDGE D-15	2430M	GCR 10-228S	138-475W	sCRGNO2WT
0946	180487			DRRO E	DREDGE D-15	2112M	GCR 10-240S	138-466W	sCRGNO2WT
1304	180487			DRRO B	DREDGE D-16	2307M	GCR 10-253S	138-457W	sCRGNO2WT
1809	180487			DRRO E	DREDGE D-16	1855M	GCR 10-266S	138-444W	sCRGNO2WT
2007	180487			DRRO B	DREDGE D-17	2377M	GCR 10-313S	138-505W	sCRGNO2WT
2257	180487			DRRO E	DREDGE D-17	2164M	GCR 10-314S	138-496W	sCRGNO2WT
0614	190487			DRRO B	DREDGE D-18	1926M	GCR 10-236S	138-299W	sCRGNO2WT
0947	190487			DRRO E	DREDGE D-18	1628M	GCR 10-239S	138-296W	sCRGNO2WT
1810	190487			DRRO B	DREDGE D-19	2043M	GCR 10-052S	139-091W	sCRGNO2WT
2106	190487			DRRO E	DREDGE D-19	1800M	GCR 10-049S	139-087W	sCRGNO2WT
0443	200487			DRRO B	DREDGE D-20	3213M	GCR 9-465S	139-450W	sCRGNO2WT
0752	200487			DRRO E	DREDGE D-20	2887M	GCR 9-474S	139-439W	sCRGNO2WT
1215	200487			DRRO B	DREDGE D-21	2524M	GCR 9-394S	139-436W	sCRGNO2WT
1452	200487			DRRO E	DREDGE D-21	2296M	GCR 9-392S	139-444W	sCRGNO2WT
2151	200487			DRRO B	DREDGE D-22	2044M	GCR 9-132S	140-076W	sCRGNO2WT
0128	210487			DRRO E	DREDGE D-22	1697M	GCR 9-127S	140-072W	sCRGNO2WT
1212	210487			DRRO B	DREDGE D-23	2063M	GCR 9-048S	140-412W	sCRGNO2WT
1510	210487			DRRO E	DREDGE D-23	1948M	GCR 9-050S	140-410W	sCRGNO2WT
2114	210487			DRRO B	DREDGE D-24	2610M	GCR 9-250S	140-144W	sCRGNO2WT
0032	220487			DRRO E	DREDGE D-24	2006M	GCR 9-257S	140-130W	sCRGNO2WT

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*** GRAVITY CORES ***

0726	120487		COGV B CORE	G-06	GCR	8-197S	141-355W	sCRGNO2WT
0941	120487		COGV E CORE	G-06	GCR	8-201S	141-361W	sCRGNO2WT
0656	130487		COGV B CORE	G-07	GCR	9-230S	139-412W	sCRGNO2WT
0846	130487		COGV E CORE	G-07	GCR	9-230S	139-417W	sCRGNO2WT

*** EXPENDABLE BATHY THERMOGRAPHS ***

1701	310387		BTXP	XBT 001	GDC	15-540S	147-350W	sCRGNO2WT
0008	010487		BTXP	XBT 002	GDC	14-510S	146-528W	sCRGNO2WT
0609	010487		BTXP	XBT 003	GDC	14-042S	146-109W	sCRGNO2WT
1236	010487		BTXP	XBT 004	GDC	13-118S	145-243W	sCRGNO2WT
1829	010487		BTXP	XBT 005	GDC	12-508S	144-332W	sCRGNO2WT
7215	020487		BTXP	XBT 006	GDC	12-407S	143-190W	sCRGNO2WT
J601	020487		BTXP	XBT 007	GDC	12-391S	142-448W	sCRGNO2WT
1216	020487		BTXP	XBT 008	GDC	12-152S	141-555W	sCRGNO2WT
1856	020487		BTXP	XBT 009	GDC	11-513S	141-038W	sCRGNO2WT
0119	030487		BTXP	XBT 010	GDC	11-297S	140-206W	sCRGNO2WT
0619	030487		BTXP	XBT 011	GDC	11-164S	139-465W	sCRGNO2WT
1213	030487		BTXP	XBT 012	GDC	10-555S	139-042W	sCRGNO2WT
1836	030487		BTXP	XBT 013	GDC	10-334S	138-157W	sCRGNO2WT
0111	040487		BTXP	XBT 014	GDC	10-093S	137-274W	sCRGNO2WT
0535	040487		BTXP	XBT 015	GDC	9-529S	136-537W	sCRGNO2WT
1408	040487		BTXP	XBT 016	GDC	9-230S	135-482W	sCRGNO2WT
1854	040487		BTXP	XBT 017	GDC	9-069S	135-108W	sCRGNO2WT
0054	050487		BTXP	XBT 018	GDC	8-598S	135-439W	sCRGNO2WT
0716	050487		BTXP	XBT 019	GDC	9-018S	136-465W	sCRGNO2WT
1215	050487		BTXP	XBT 020	GDC	8-596S	137-354W	sCRGNO2WT
2039	050487		BTXP	XBT 021	GDC	9-003S	138-570W	sCRGNO2WT
0604	060487		BTXP	XBT 022	GDC	8-599S	140-296W	sCRGNO2WT
2308	060487		BTXP	XBT 023	GDC	8-594S	141-516W	sCRGNO2WT
0646	070487		BTXP	XBT 024	GDC	8-594S	143-053W	sCRGNO2WT
1959	070487		BTXP	XBT 025	GDC	8-357S	143-043W	sCRGNO2WT
0614	080487		BTXP	XBT 026	GDC	8-031S	141-494W	sCRGNO2WT
1945	080487		BTXP	XBT 027	GDC	7-204S	140-126W	sCRGNO2WT
0643	090487		BTXP	XBT 028	GDC	6-438S	138-502W	sCRGNO2WT
1826	090487		BTXP	XBT 029	GDC	6-078S	138-549W	sCRGNO2WT
0617	100487		BTXP	XBT 030	GDC	5-446S	141-058W	sCRGNO2WT
1844	100487		BTXP	XBT 031	GDC	6-551S	142-416W	sCRGNO2WT
1259	120487		BTXP	XBT 032	GDC	8-120S	141-120W	sCRGNO2WT
1843	120487		BTXP	XBT 033	GDC	8-151S	140-259W	sCRGNO2WT
0935	130487		BTXP	XBT 034	GDC	9-254S	139-391W	sCRGNO2WT
1851	140487		BTXP	XBT 035	GDC	11-472S	137-094W	sCRGNO2WT

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0626	150487			BTXP	XBT 036	GDC	12-075S	136-433W	sCRGNO2WT
1934	150487			BTXP	XBT 037	GDC	10-591S	136-284W	sCRGNO2WT
1702	170487			BTXP	XBT 038	GDC	10-308S	138-509W	sCRGNO2WT
0917	180487			BTXP	XBT 039	GDC	10-239S	138-465W	sCRGNO2WT
2052	180487			BTXP	XBT 040	GDC	10-313S	138-501W	sCRGNO2WT
0646	190487			BTXP	XBT 041	GDC	10-237S	138-302W	sCRGNO2WT
2114	190487			BTXP	XBT 042	GDC	10-050S	139-086W	sCRGNO2WT
0704	200487			BTXP	XBT 043	GDC	9-471S	139-441W	sCRGNO2WT
2053	200487			BTXP	XBT 044	GDC	9-146S	140-037W	sCRGNO2WT
0937	210487			BTXP	XBT 045	GDC	9-012S	140-318W	sCRGNO2WT
0638	220487			BTXP	XBT 046	GDC	10-006S	140-401W	sCRGNO2WT
0306	230487			BTXP	XBT 047	GDC	12-312S	143-154W	sCRGNO2WT
0602	230487			BTXP	XBT 048	GDC	12-548S	143-397W	sCRGNO2WT
1155	230487			BTXP	XBT 049	GDC	13-371S	144-258W	sCRGNO2WT
1829	230487			BTXP	XBT 050	GDC	14-161S	145-224W	sCRGNO2WT
0010	240487			BTXP	XBT 051	GDC	14-449S	146-221W	sCRGNO2WT
0634	240487			BTXP	XBT 052	GDC	15-255S	147-087W	sCRGNO2WT
1010	240487			BTXP	XBT 053	GDC	15-281S	147-502W	sCRGNO2WT
1859	240487			BTXP	XBT 054	GDC	16-218S	148-375W	sCRGNO2WT

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END SAMPLE INDEX