

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

(Issued September 1987)

CROSSGRAIN EXPEDITION

LEG 3

Papeete, Tahiti (30 April 1987)

to

Hilo, Hawaii (3 June 1987)

R/V T. Washington

Chief Scientist - D. Cronan (Imperial College of London)

Resident Marine Tech - G. Hargreaves

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

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. 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.

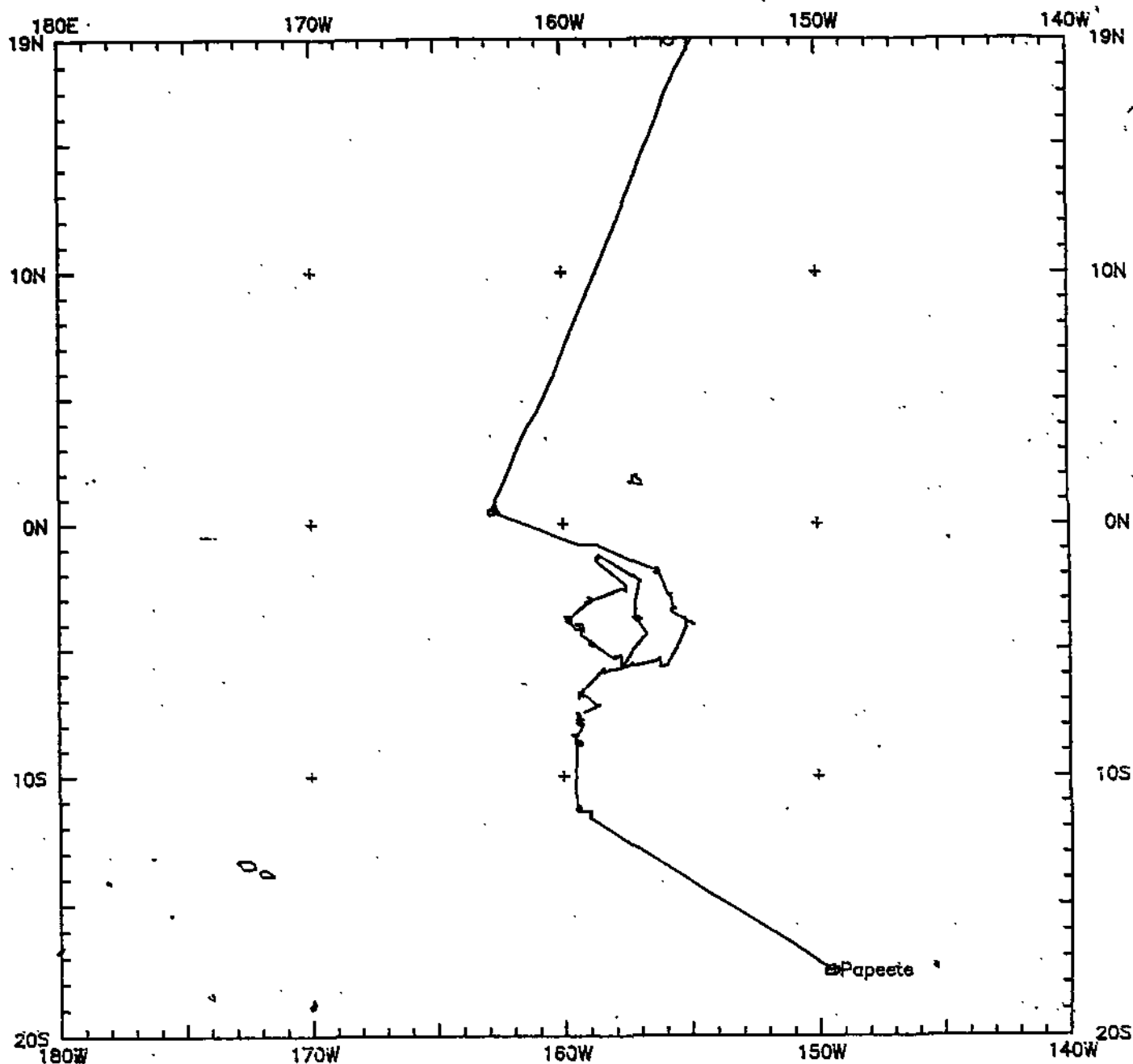
1. Navigation listing with times and positions of course and speed changes, fixes and drift velocity.
2. Depth compilation plots - compilation plots at the traditional scale of 4in/degree longitude (1:1,000,000) are no longer produced for Sea Beam cruises. Custom plots may be requested of vertical beam (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 3 (CRGN03WT) - R/V Washington

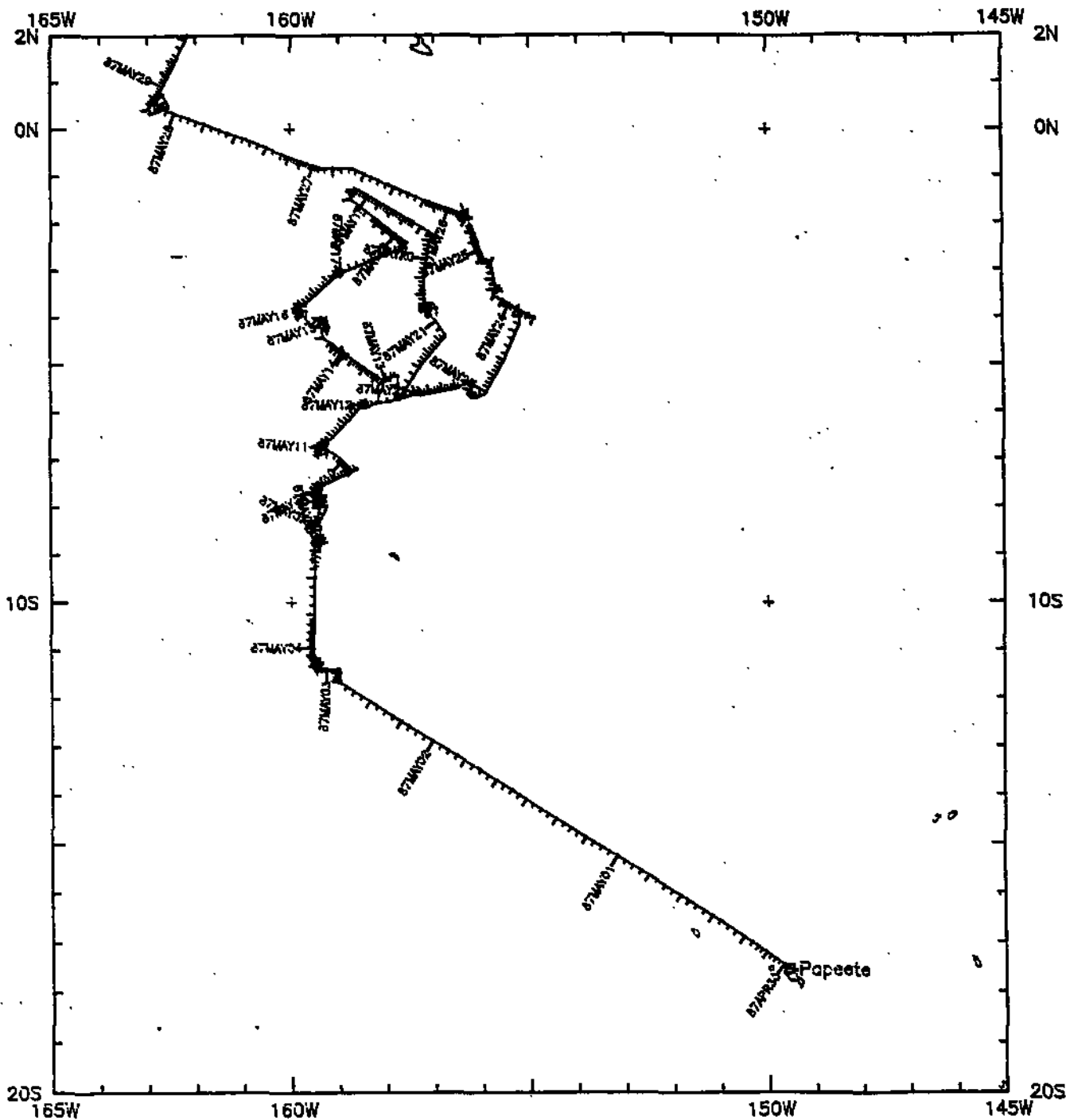
Mercator at 0.1632 inch/degree longitude

**CROSSGRAIN EXPEDITION
LEG 3**

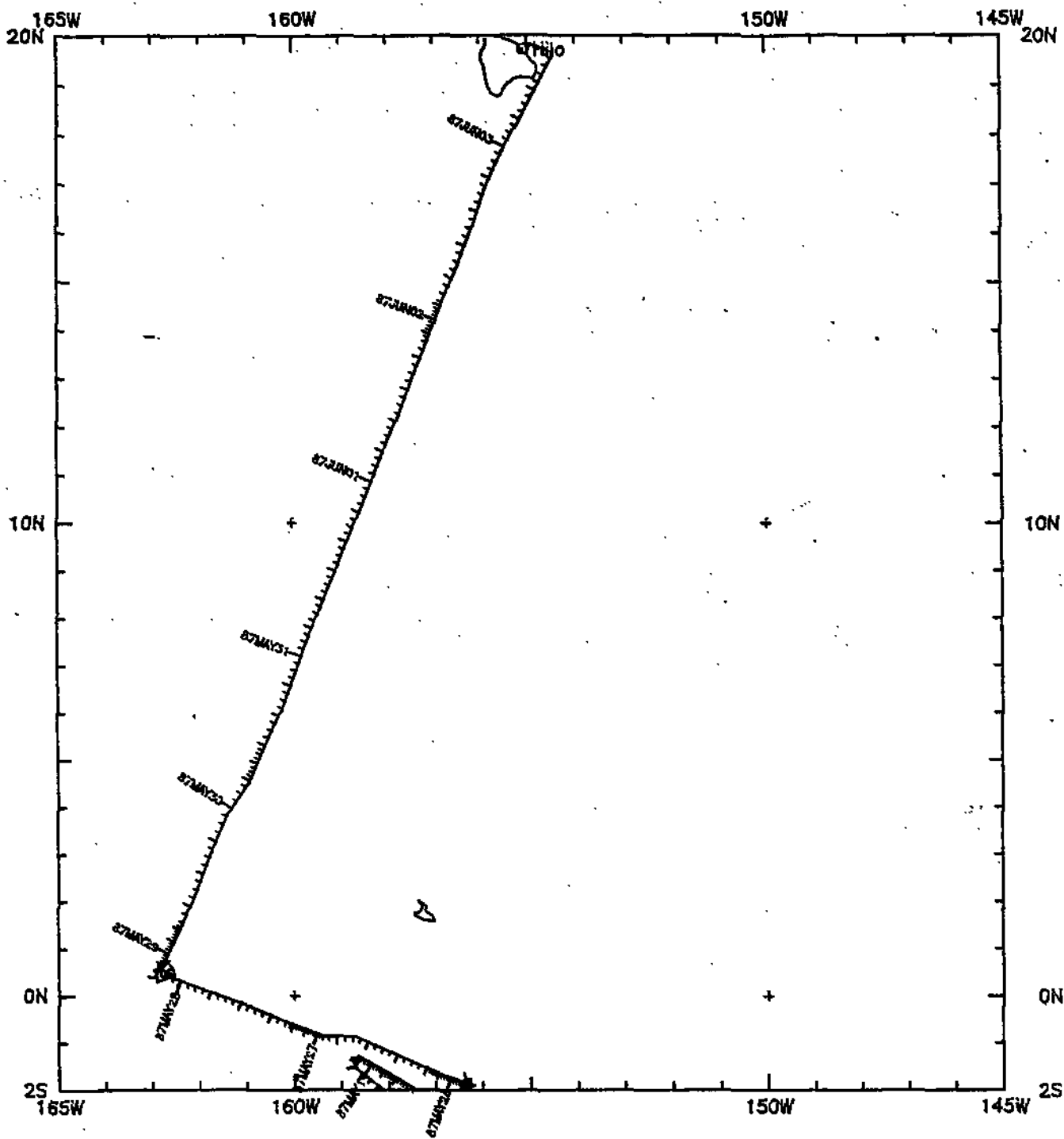
CHIEF SCIENTIST: D. Cronan (England)
PORTS: Papeete, Tahiti - Hilo, Hawaii
DATES: 30 April - 3 June 1987
SHIP: R/V T. Washington

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

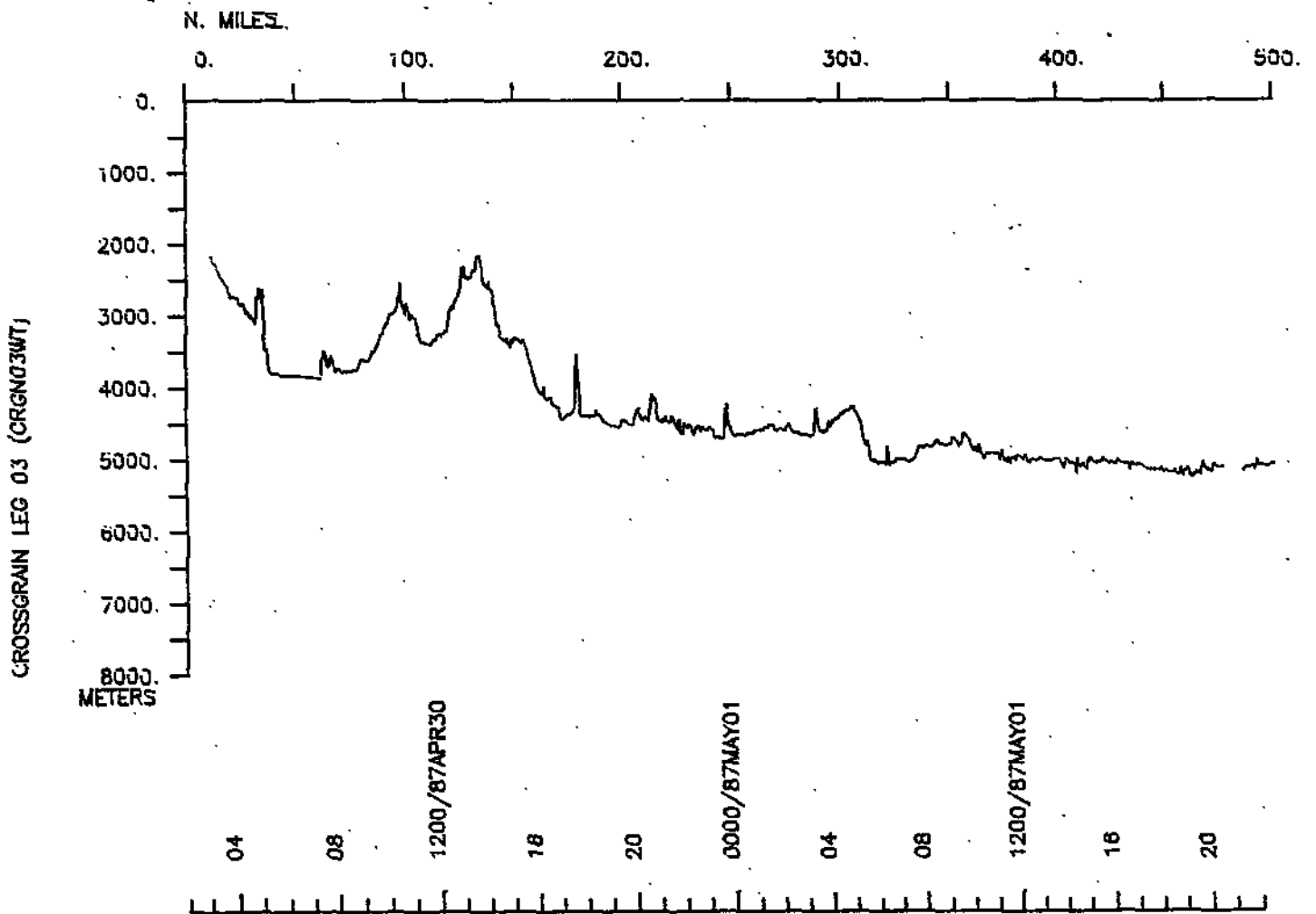
- 1) Cruise - 6834 miles
- 2) Bathymetry - 6704 miles
- 3) Magnetics - none collected
- 4) Seismic Reflection - none collected
- 5) Gravity - 1234 miles
- 6) SeaBeam - 6704 miles

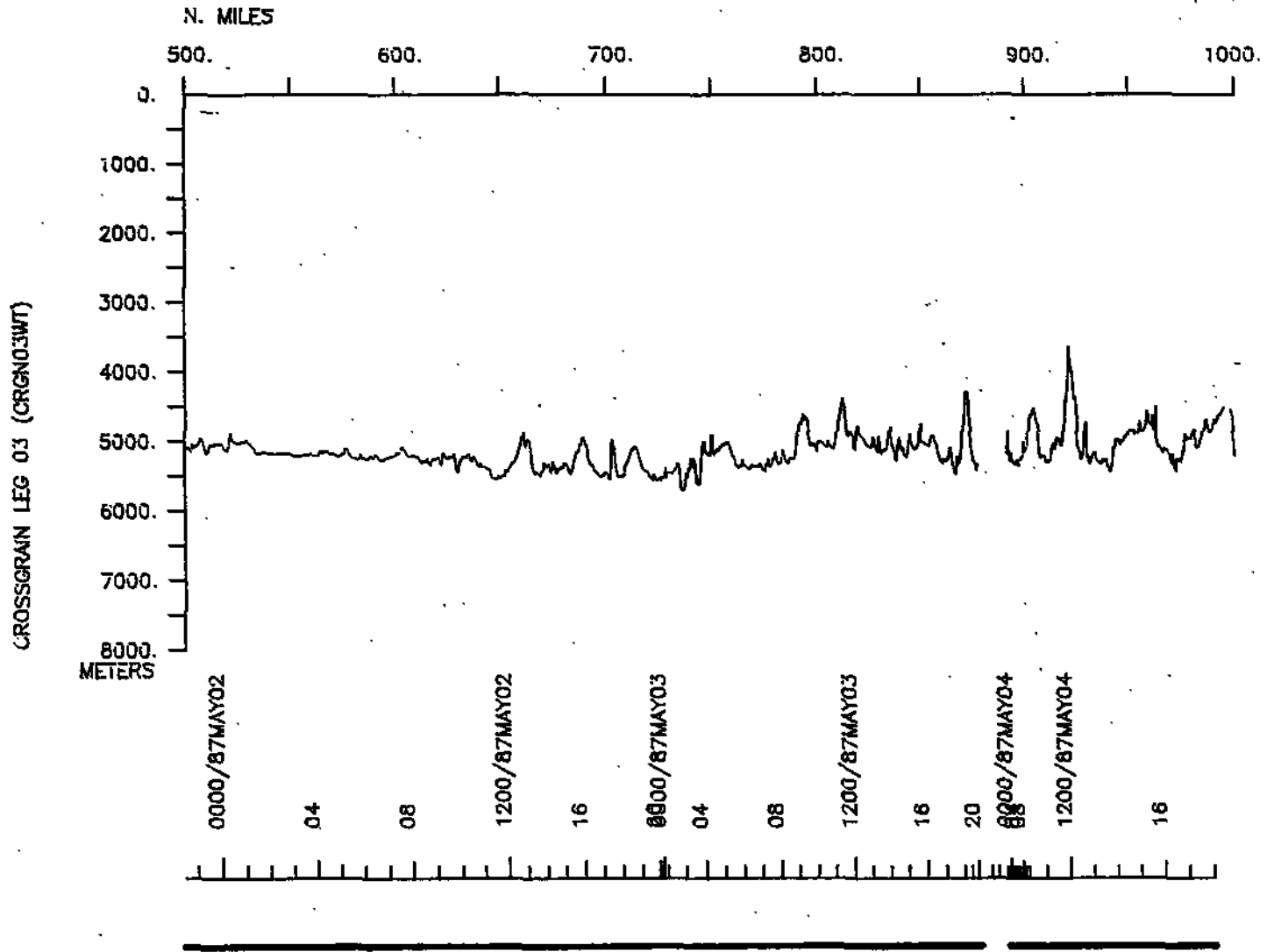
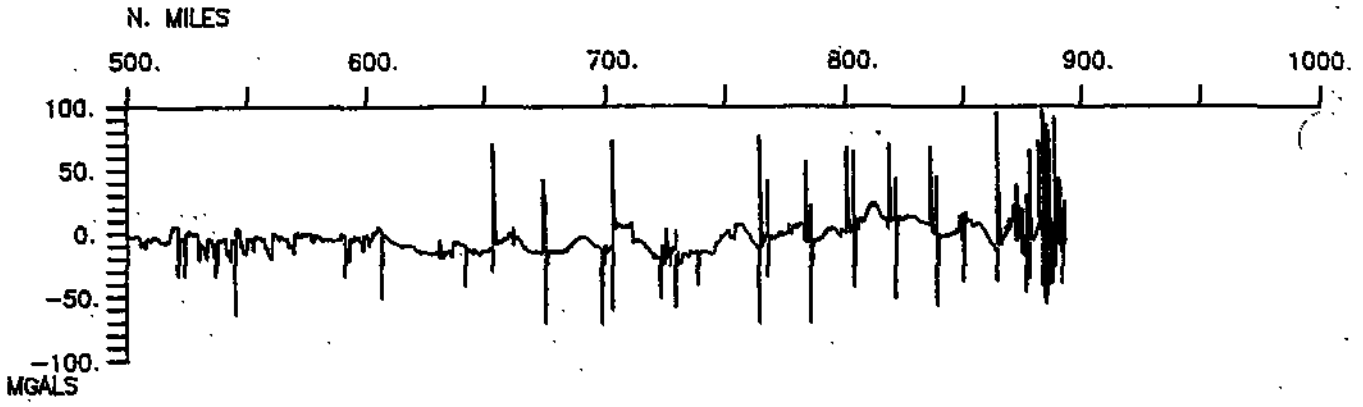


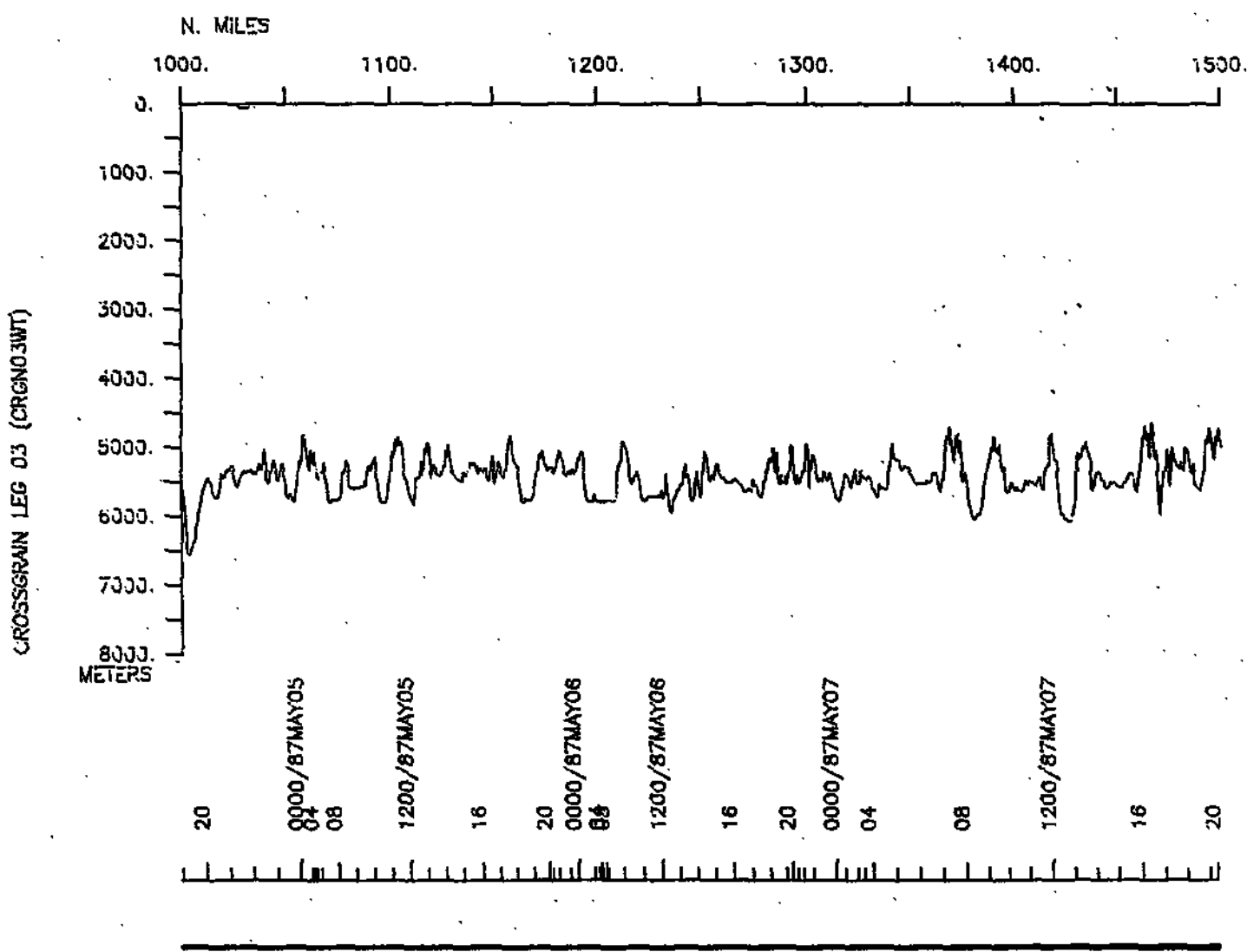
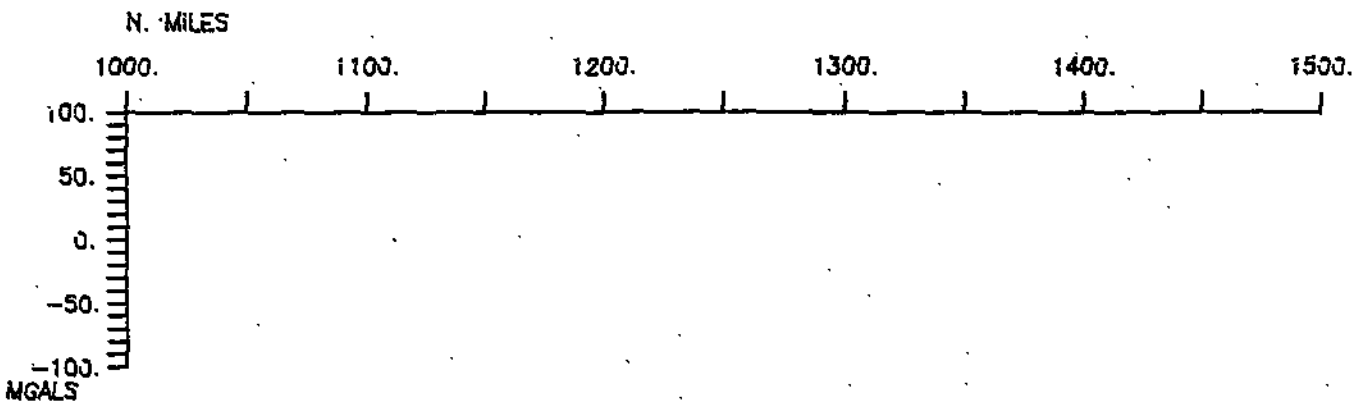
CROSSGRAIN LEG 3 (CRGN03WT) - R/V Washington
 Track # 1 at 0.312 inch/degree longitude

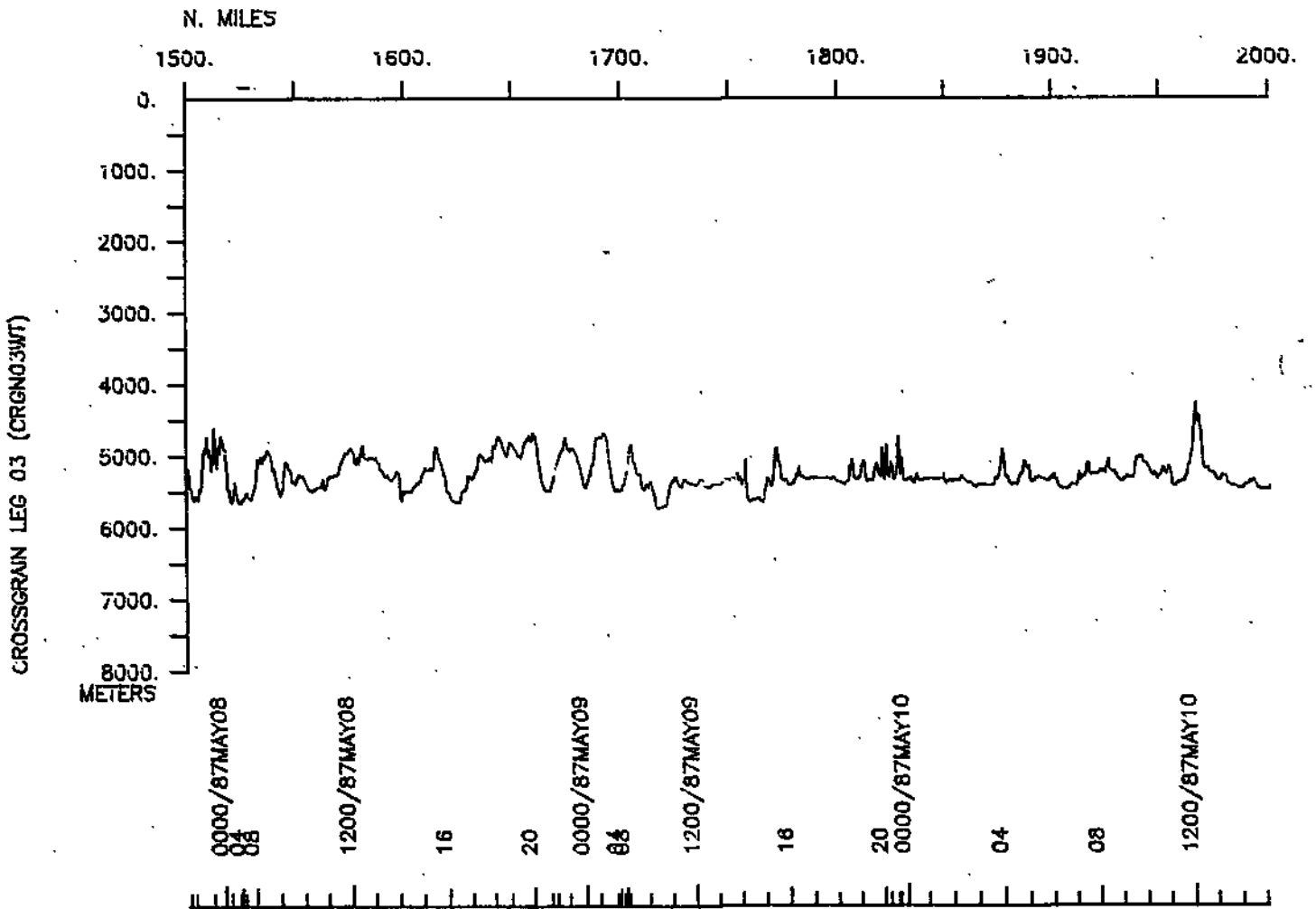


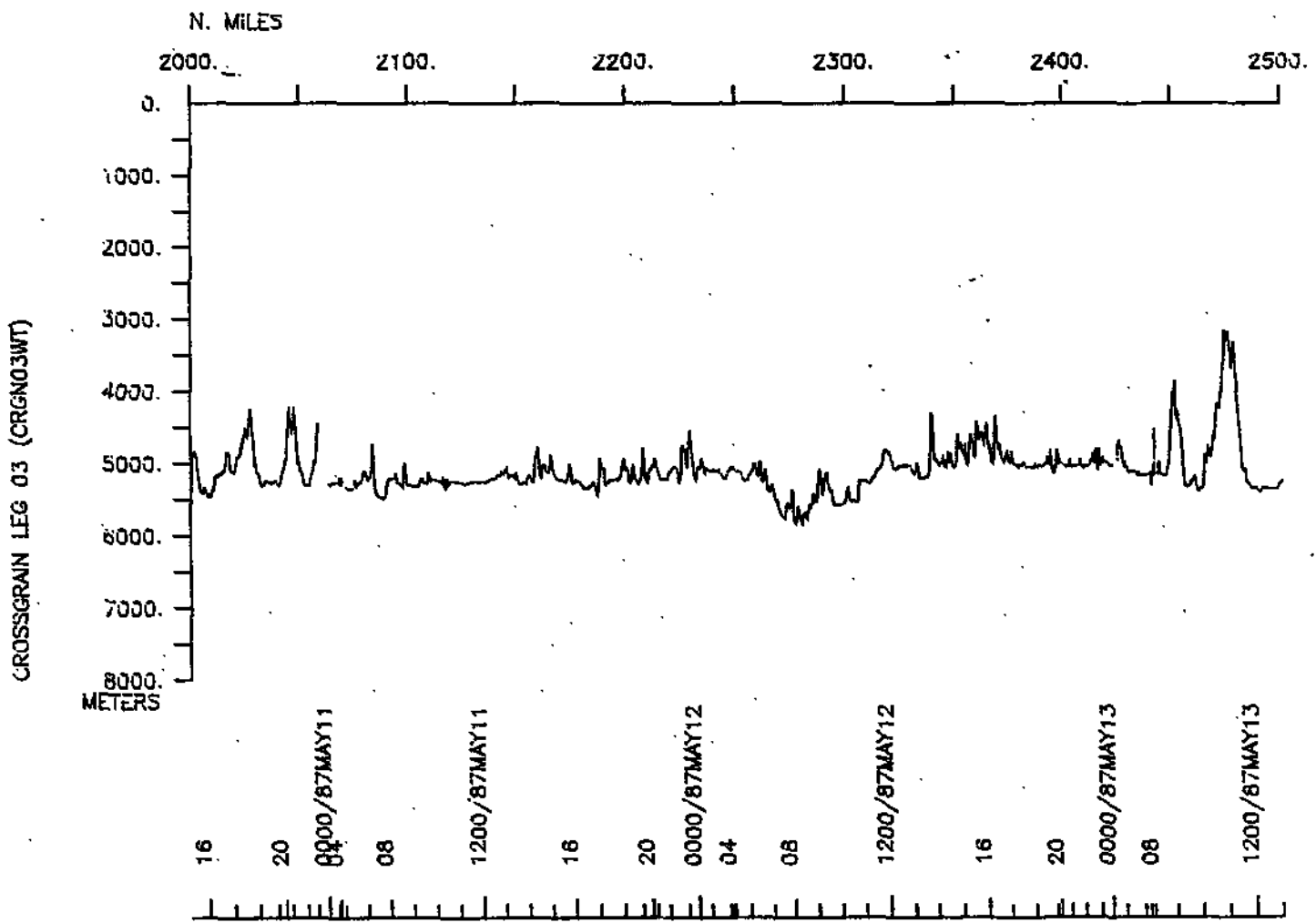
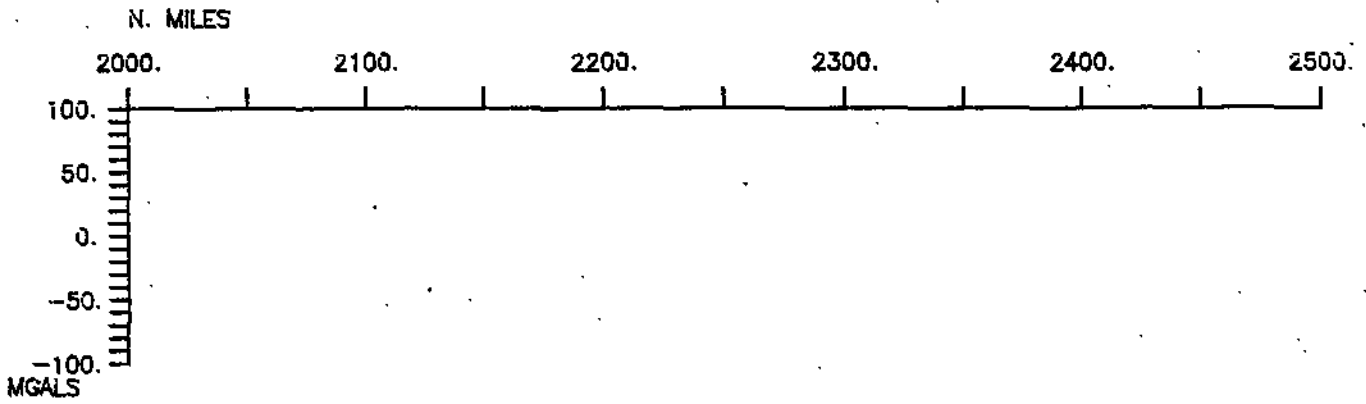
CROSSGRAIN LEG 3 (CRGN03WT) - R/V Washington
 Track # 2 at 0.312 inch/degree longitude

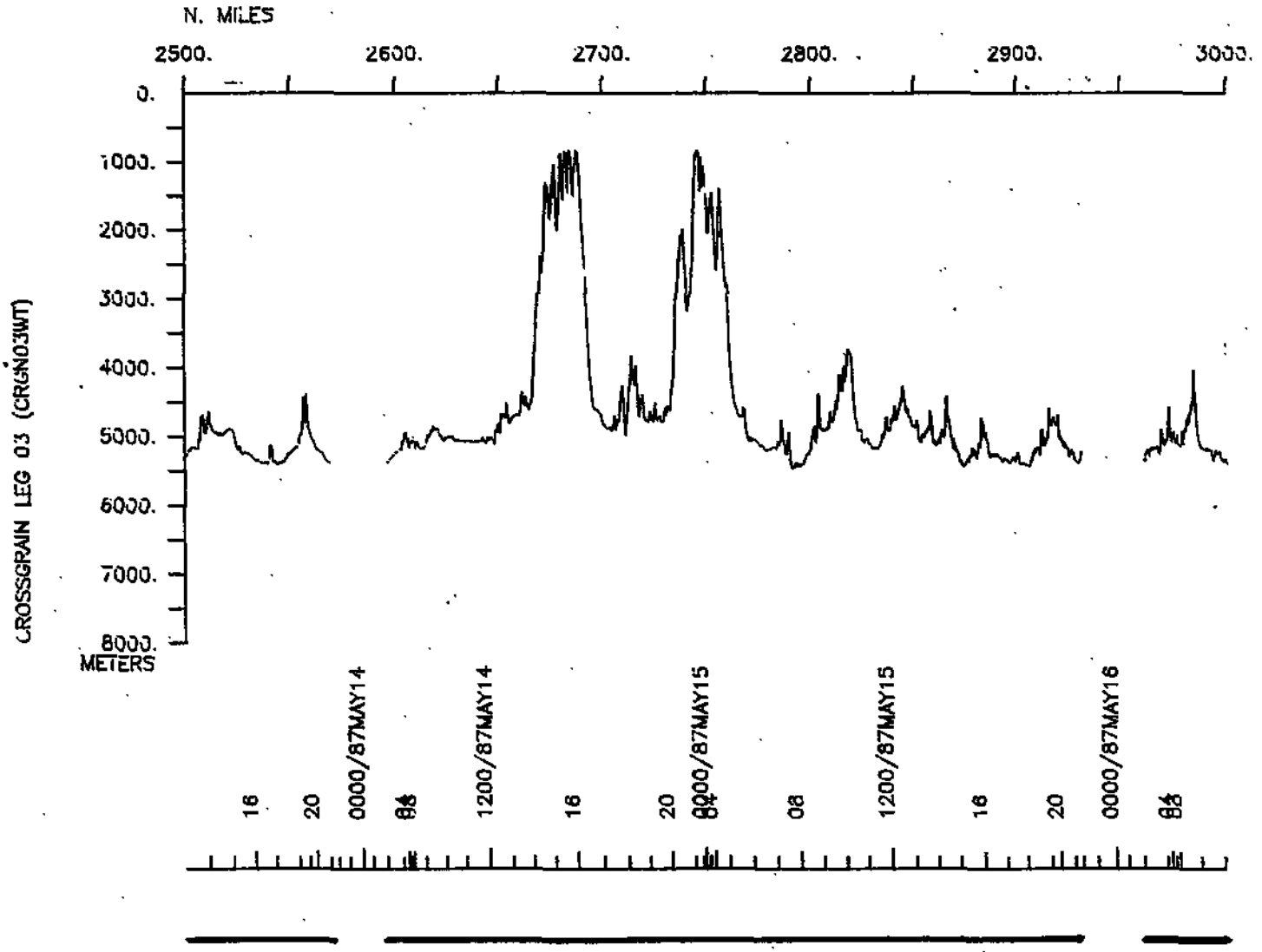
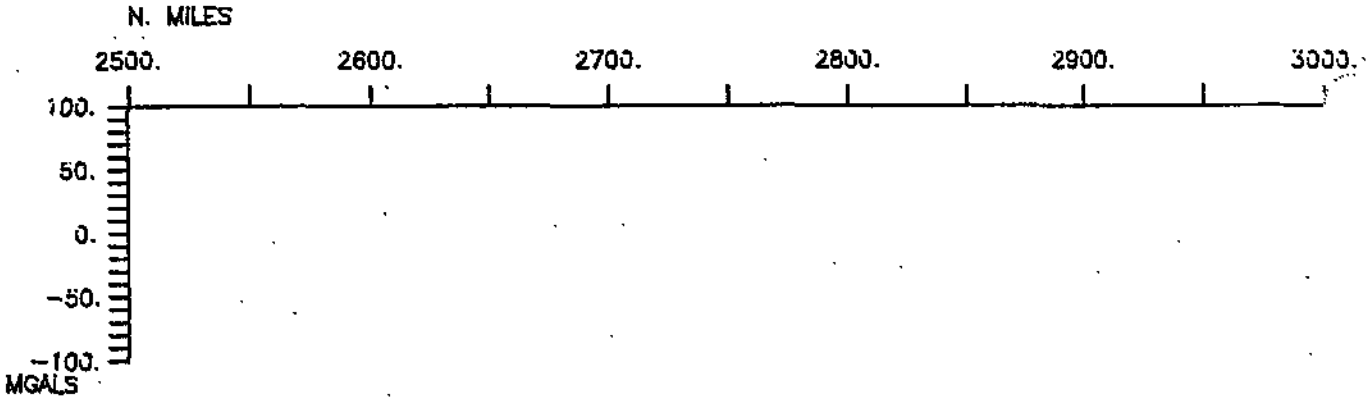


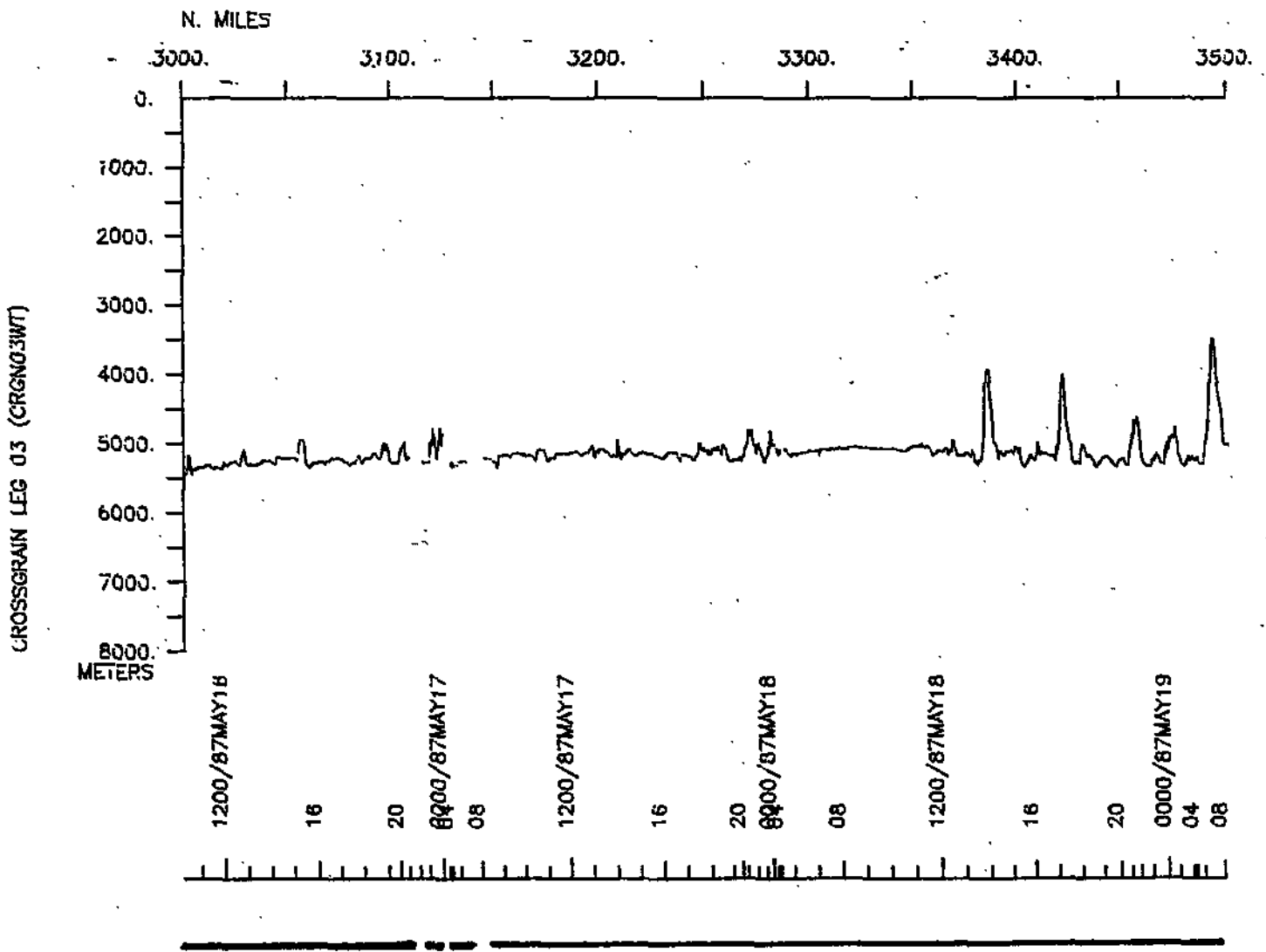
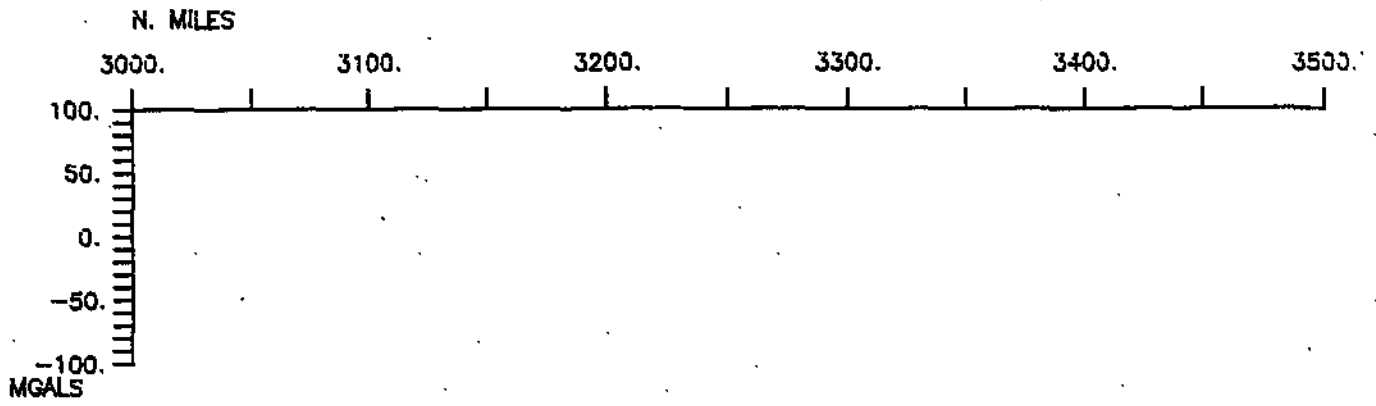


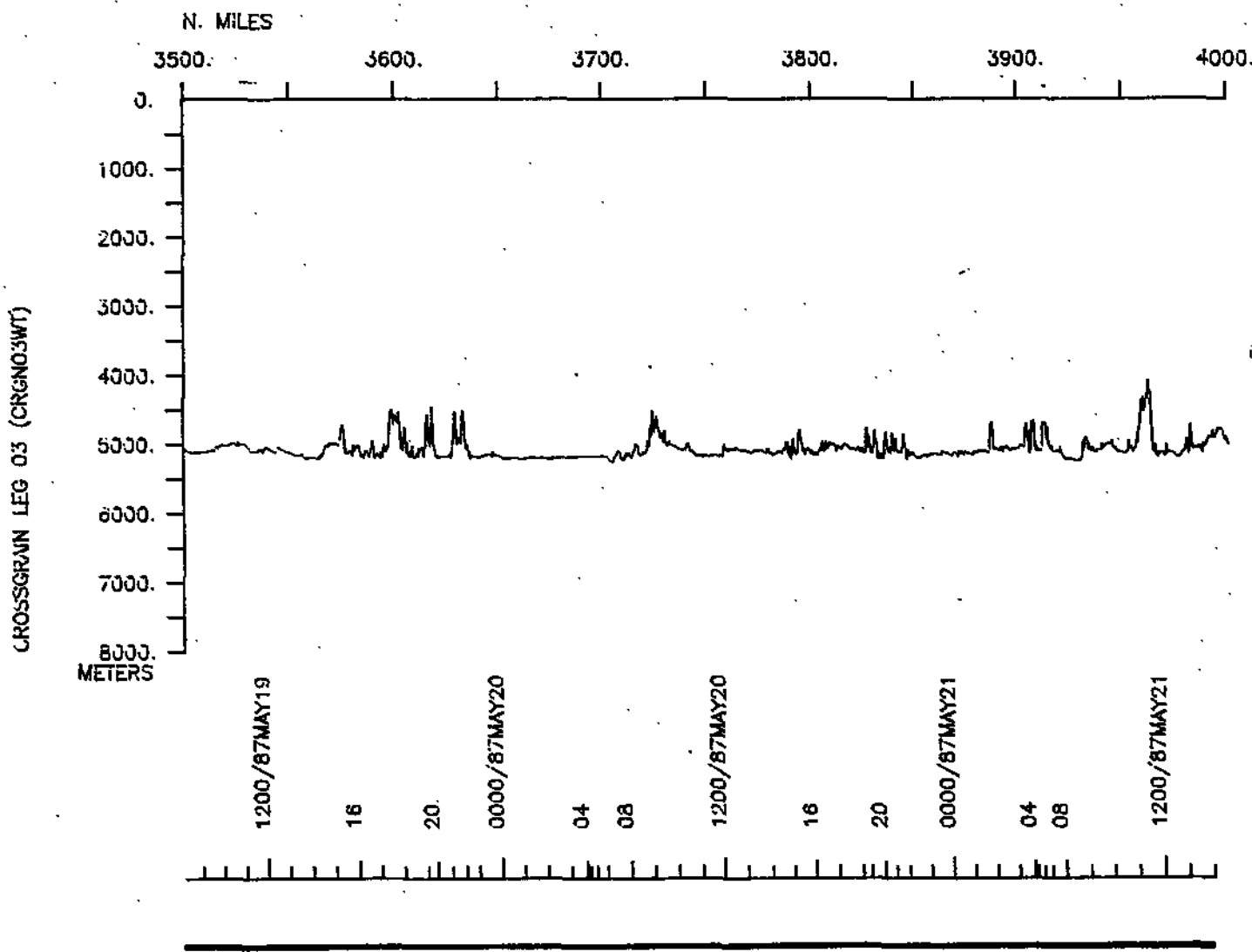
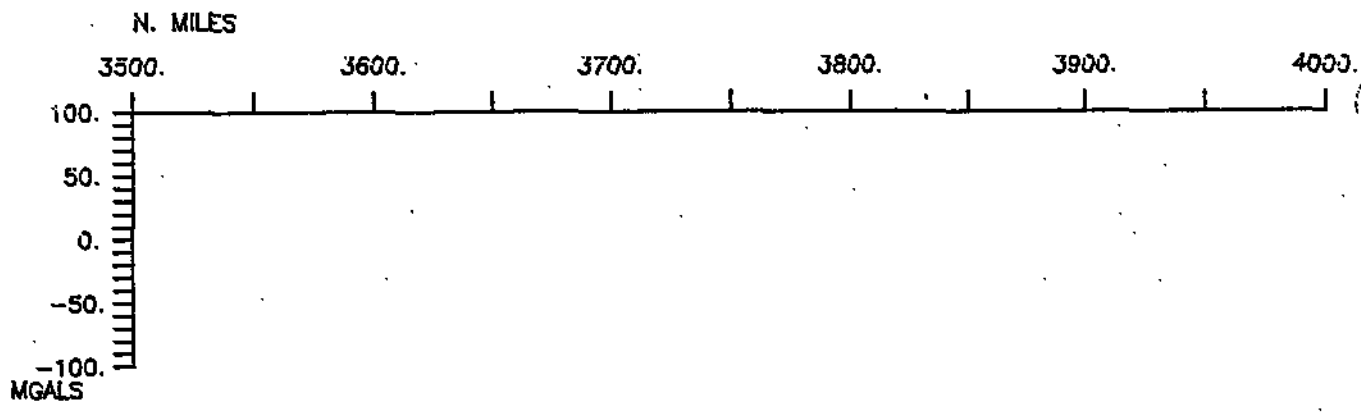


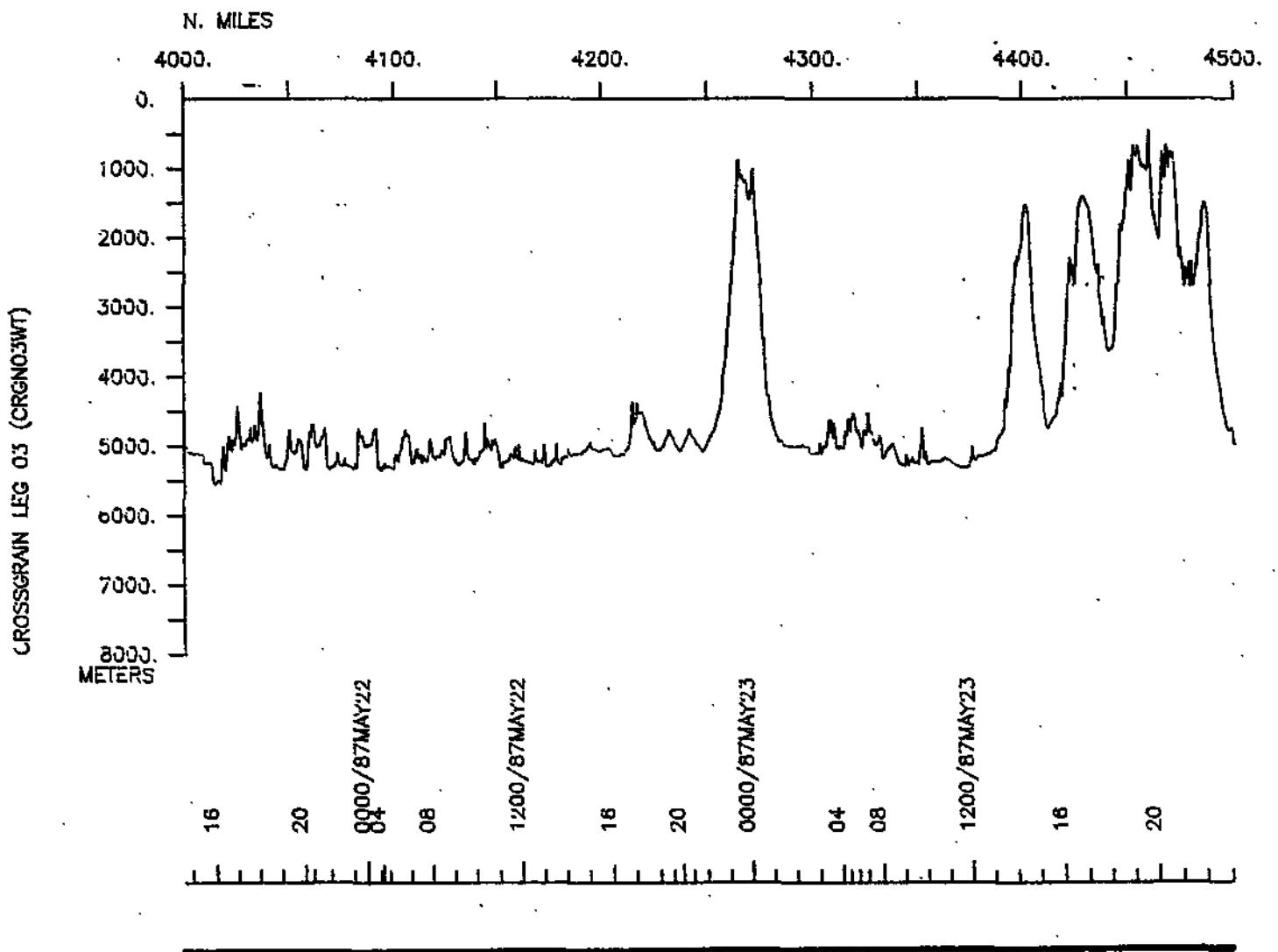
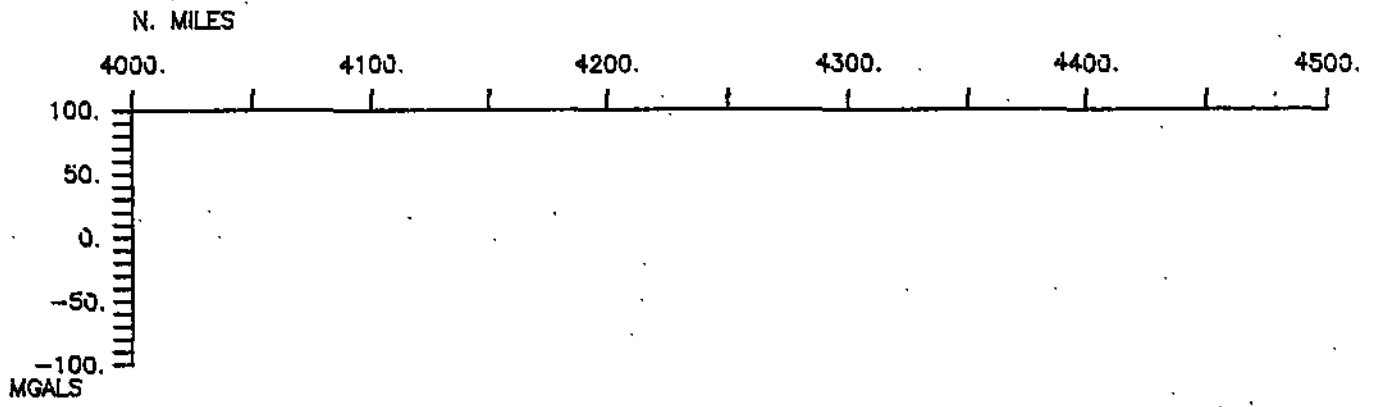


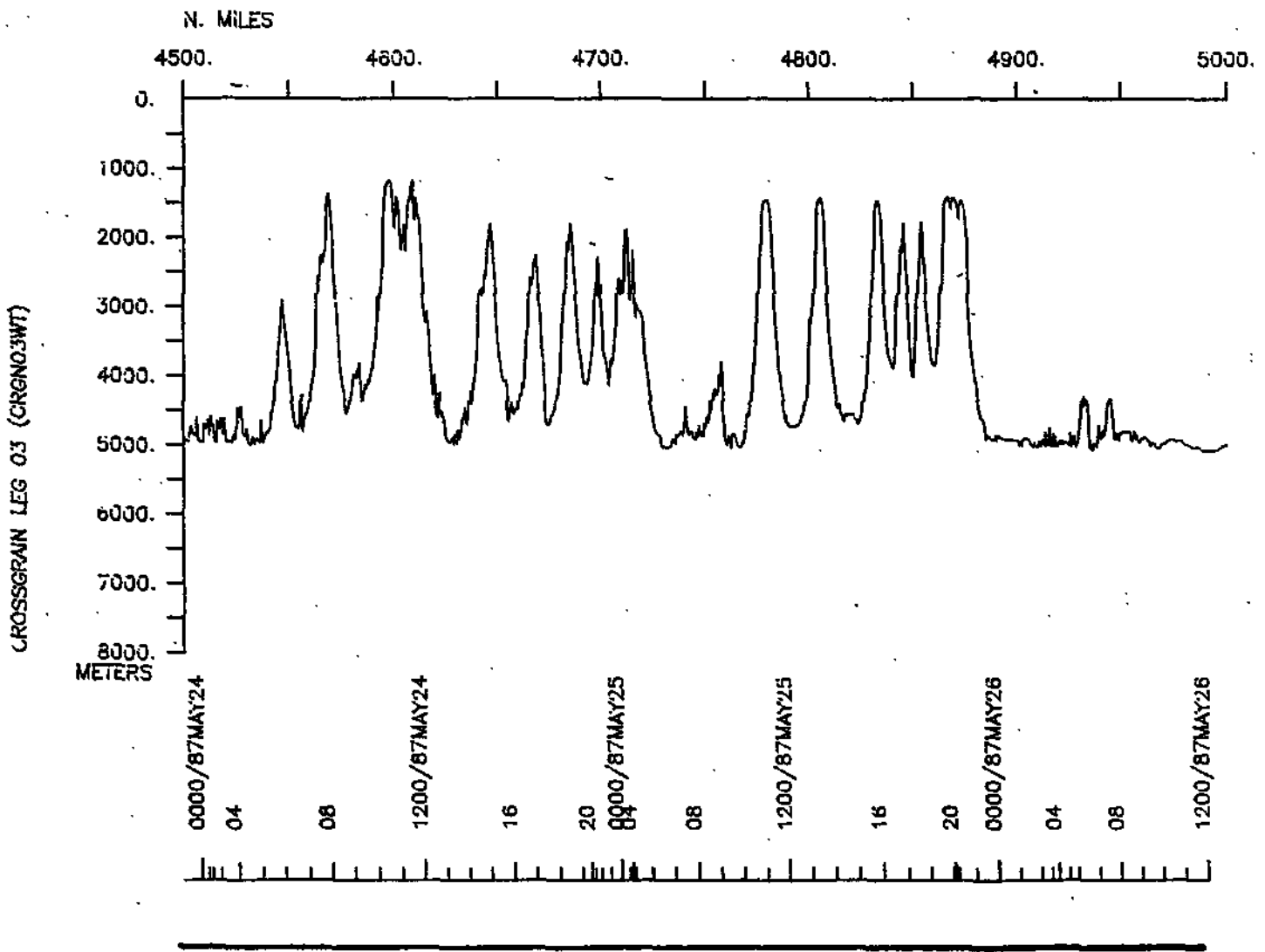
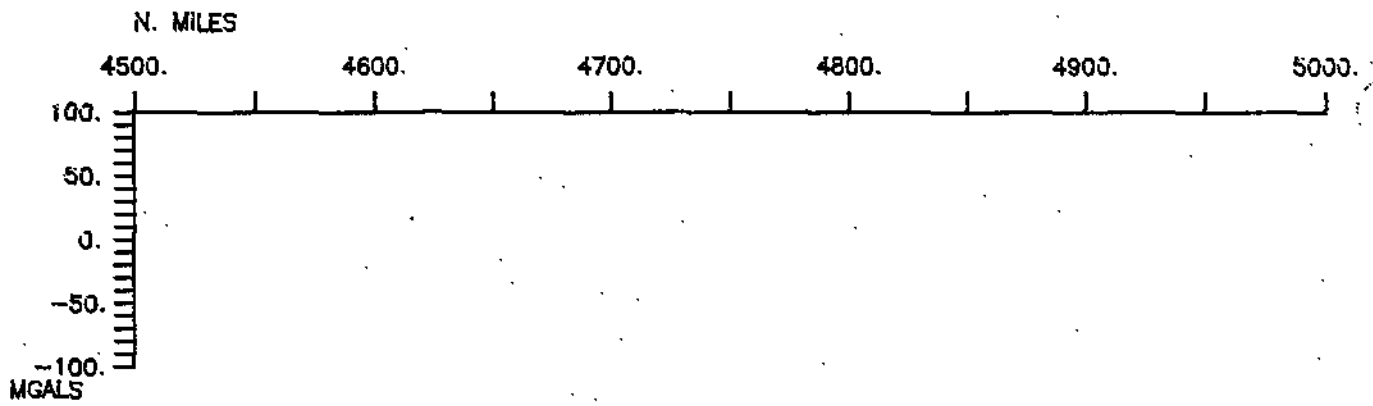


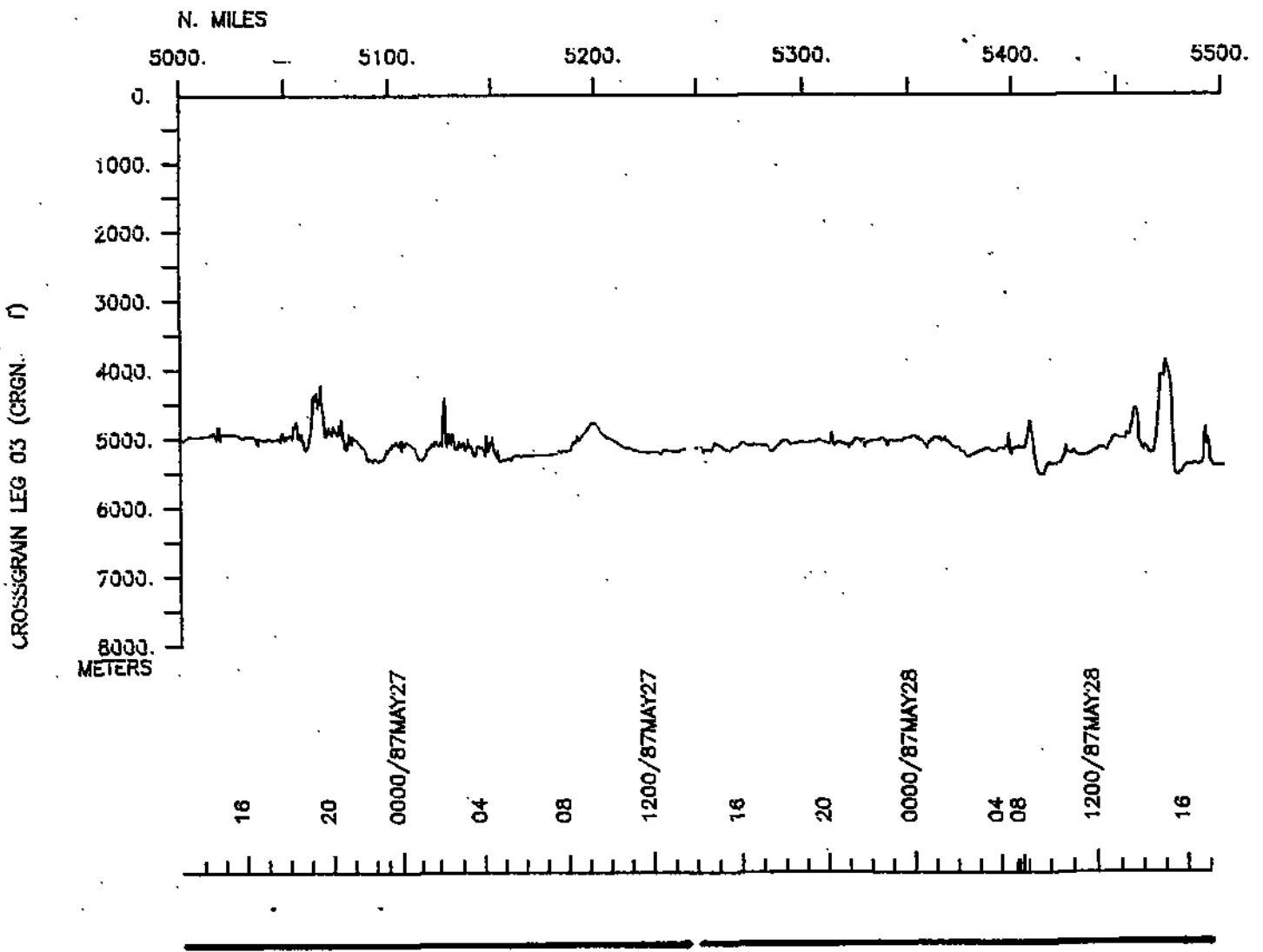
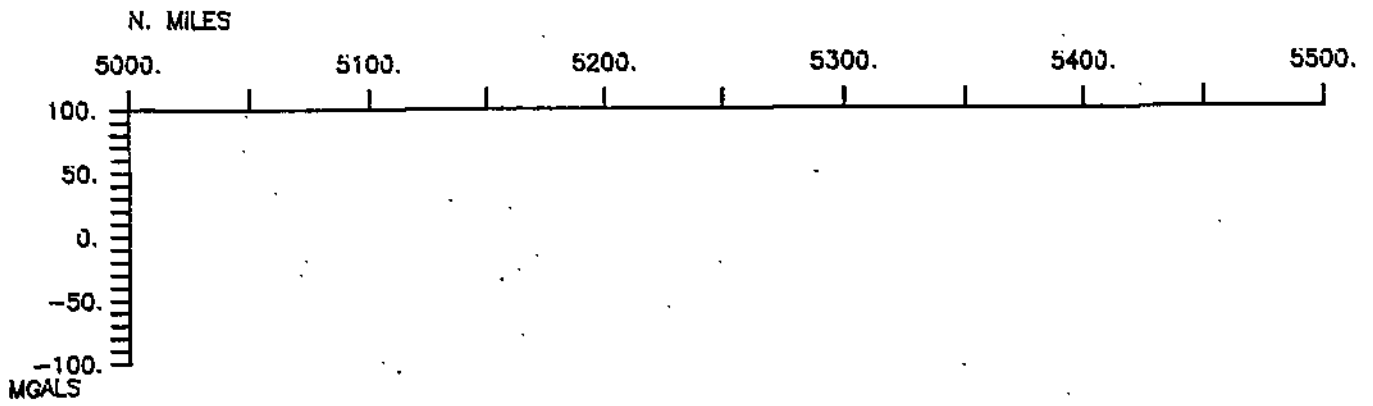


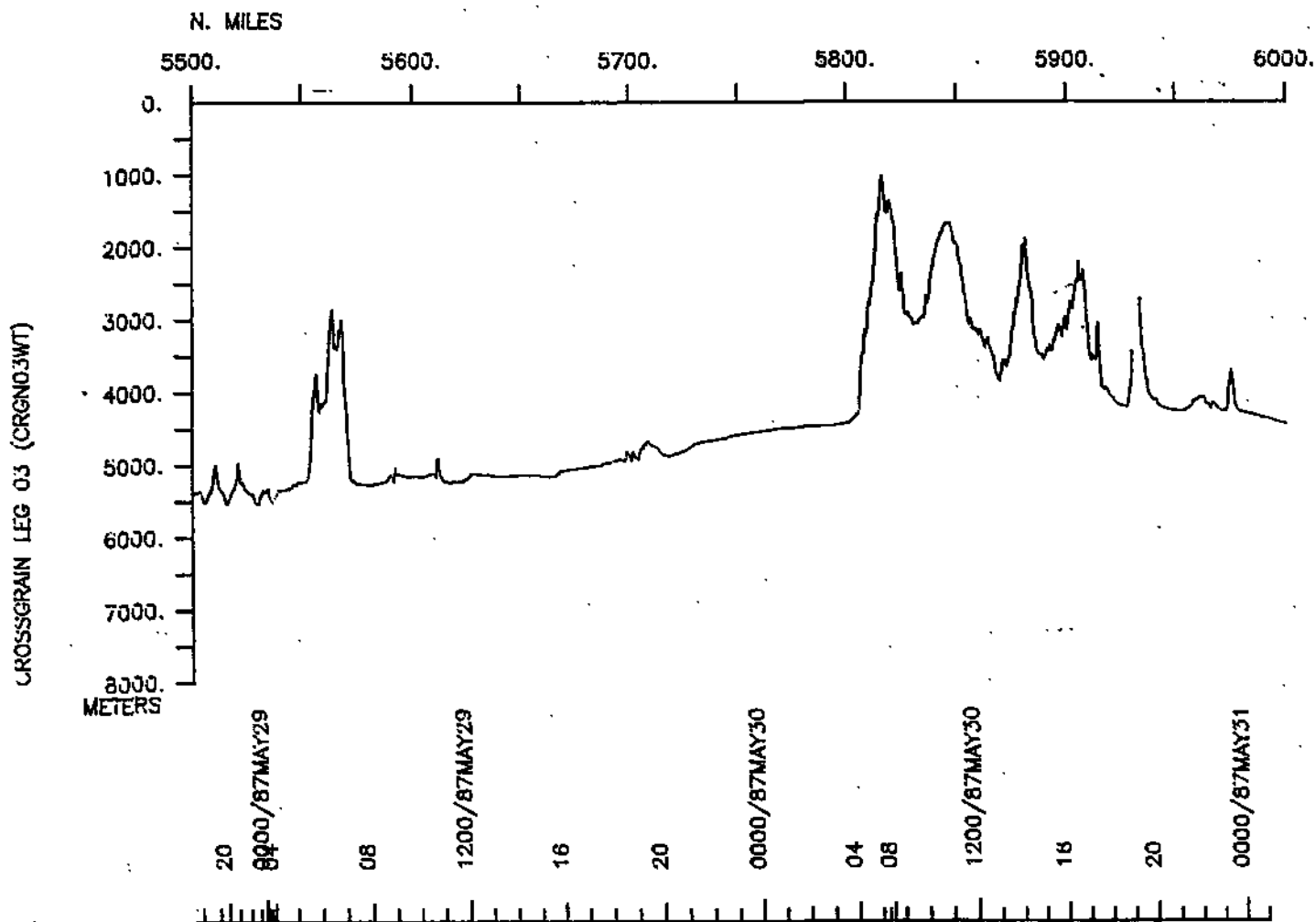
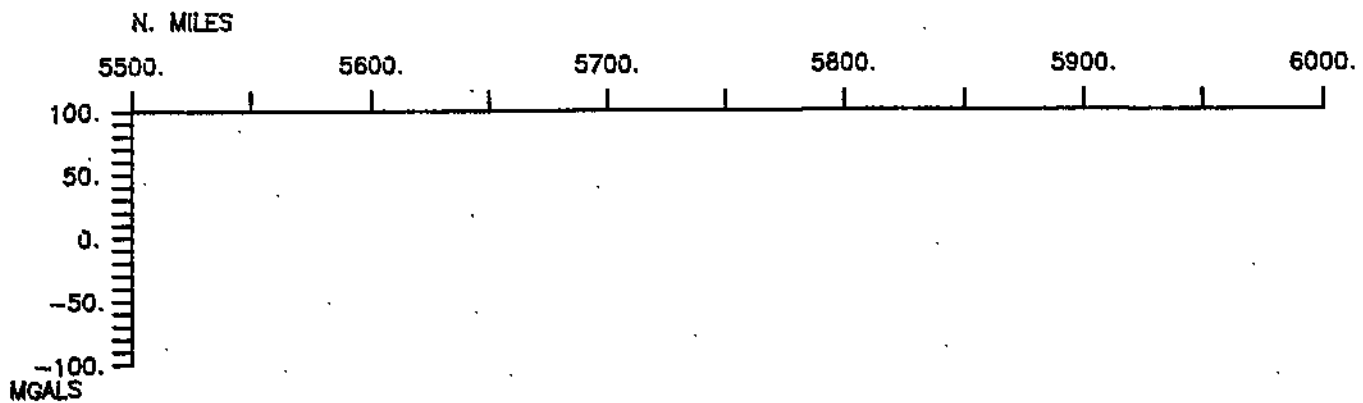


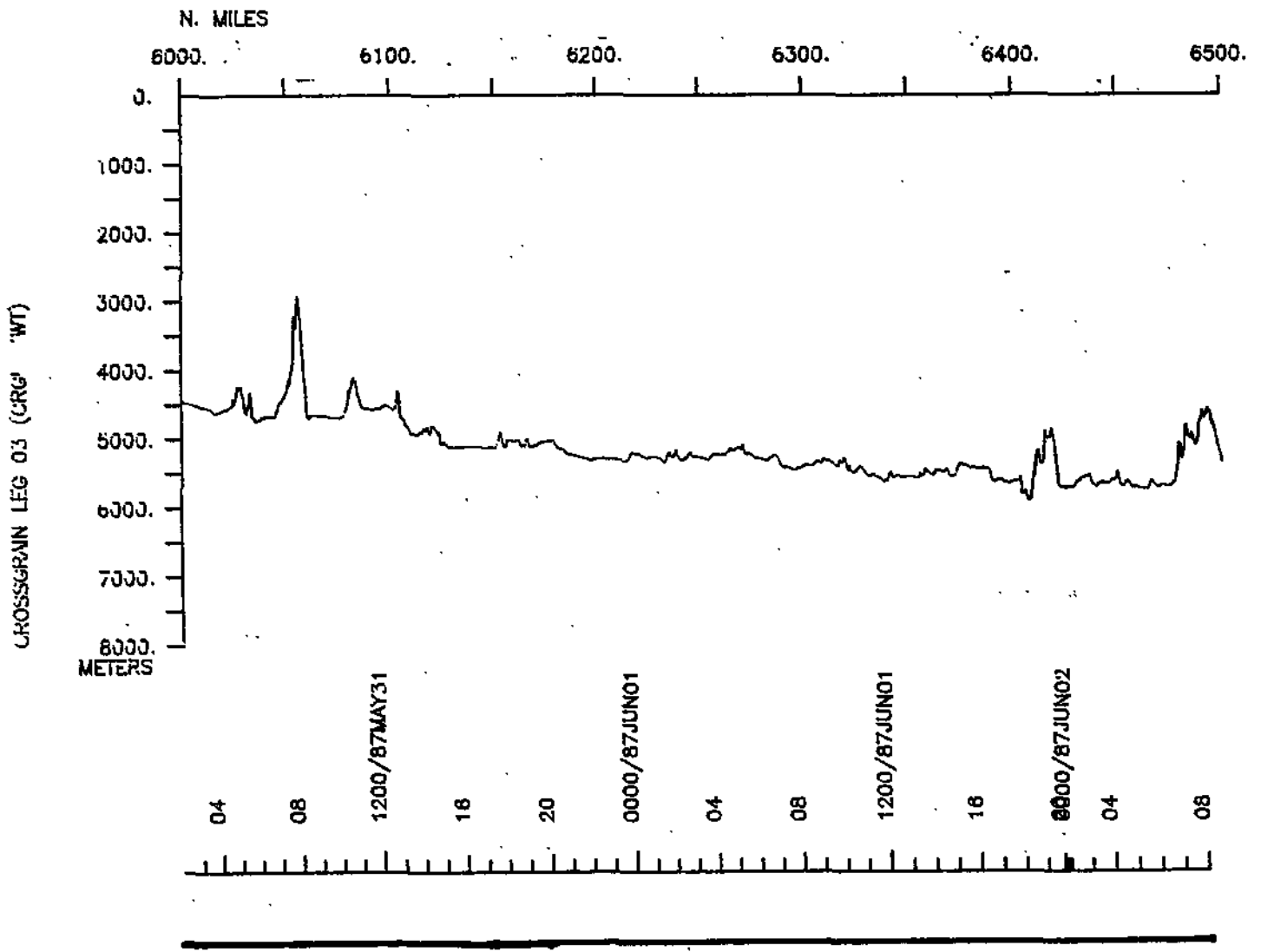
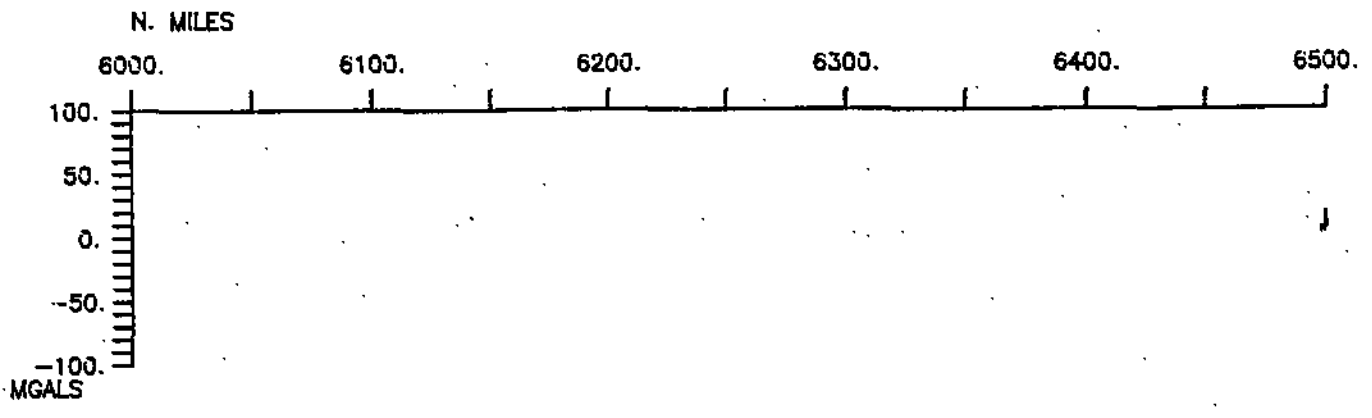


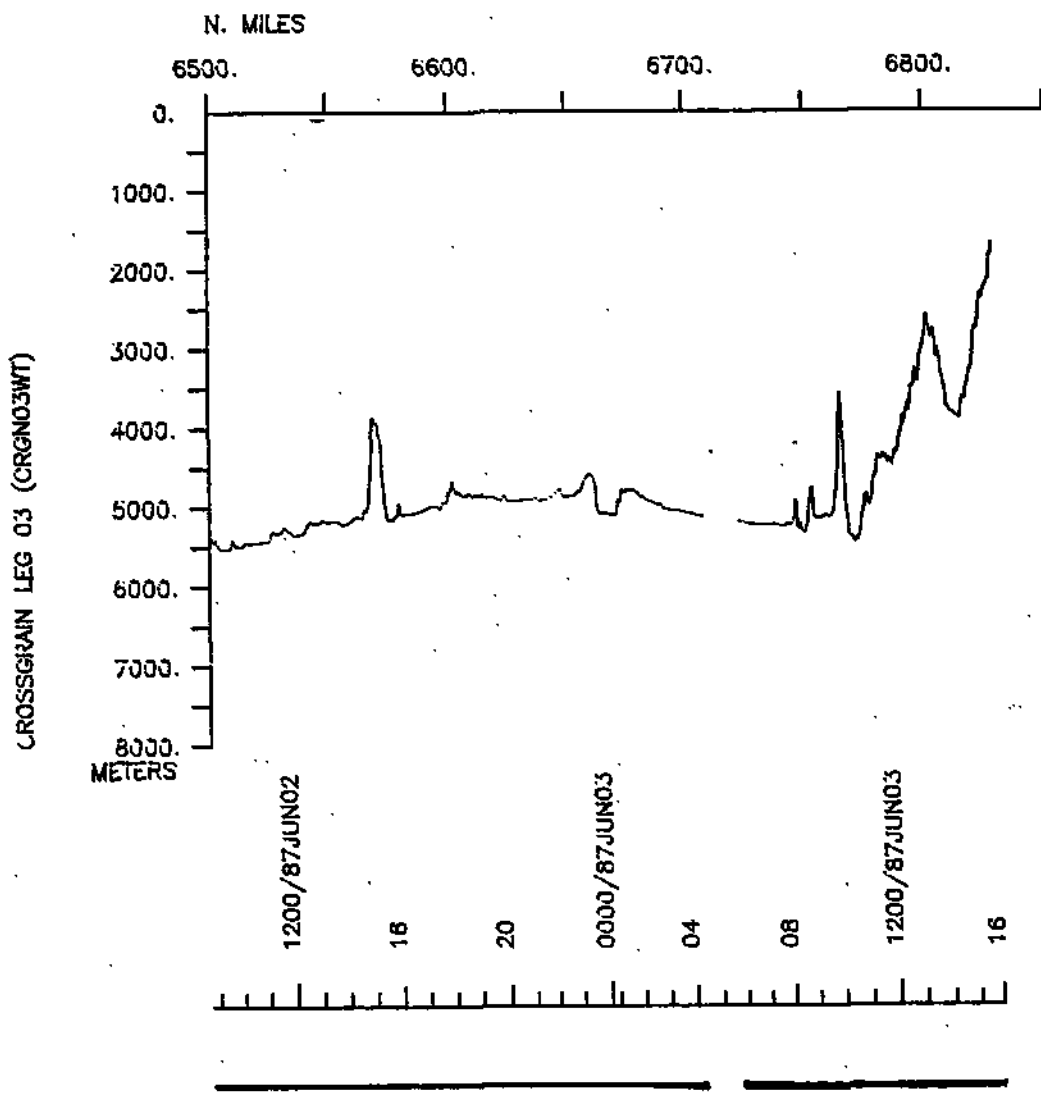
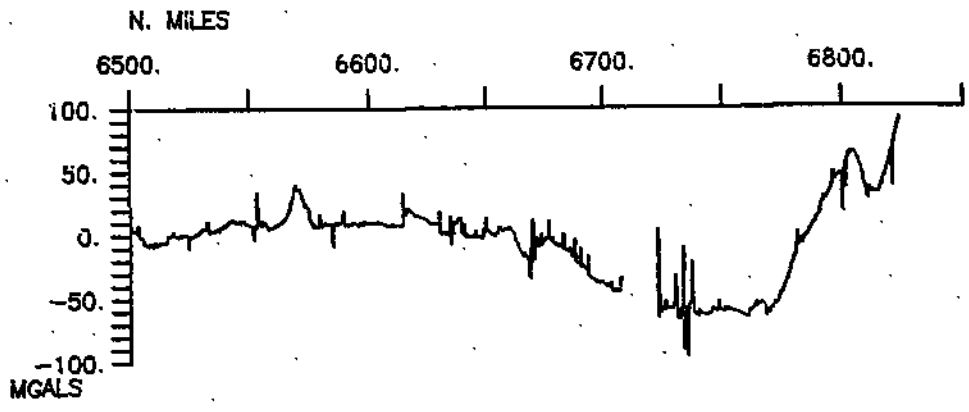












S.I.O. SAMPLE INDEX

(Issued September 1987)

CROSSGRAIN EXPEDITION

Leg 3

Papeete, Tahiti (30 April 1987)
to
Hilo, Hawaii (3 June 1987)

R/V Washington

Chief Scientist - D. Cronan

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 ****

0154 300487	LGPT B PAPEETE, TAHITI	17-32 S 149-34 W	FCRGN03WT
1858 030687	LGPT E HILO, HAWAII	19-44 N 155-04 W	FCRGN03WT

**** PERSONNEL ****

#	** NAME **	** TITLE **	** INSTITUTION **	* CRID *
PECS GRD	CRONAN, Dave	CHIEF SCIENTIST	IMPERIAL COLL. LONDON	CRGN03WT
PERT STS	HARGREAVES, G.	RESIDENT TECH	SCRIPPS INSTITUTION	CRGN03WT
PESP ICL	HODKINSON, Richard	RESEARCH ASSIST	IMPERIAL COLL. LONDON	CRGN03WT
PESP CIS	HOSKING, Aturangi	OFFICIAL OBSERVER	COOK ISLANDS	CRGN03WT
PEBE STS	HYLAS, T.	SEABEAM ENGINEER	SCRIPPS INSTITUTION	CRGN03WT
PESP GLU	MEADOWS, Peter	SR. LECTURER	GLASGOW UNIVERSITY	CRGN03WT
PEST GLU	REICHELDT, Alan	GRD. STUDENT	GLASGOW UNIVERSITY	CRGN03WT
PEBO STS	SMITH, W.	SEABEAM OPERATOR	SCRIPPS INSTITUTION	CRGN03WT
PECT STS	STUBER, D.	COMPUTER TECH	SCRIPPS INSTITUTION	CRGN03WT
PENT ICL	THEODORO, Theo	MARINE TECH	IMPERIAL COLL. LONDON	CRGN03WT
PESP SIX	TIFFIN, Dan	OBS. CCOP/SOPAC	SUVA, FIJI	CRGN03WT
PEST GLU	TUFAIL, Azra	POSTGRAD. STUDENT	GLASSGOW UNIVERSITY	CRGN03WT
PESP STS	WALSH, T.	SR. MUSEUM SCI.	SCRIPPS INSTITUTION	CRGN03WT
PEST GLU	WATERWORTH, James	STUDENT	GLASSGOW UNIVERSITY	CRGN03WT

****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	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
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UNDERWAY DATA CURATOR - S. M. SMITH, GDC, EXT 42752

*** LOG BOOKS ***

0321	290487			LBUW B	UNDERWAY WATCH LOG	GDC	17-318S	149-340W	sCRGNO3WT
1600	030687			LBUW E	UNDERWAY WATCH LOG	GDC	19-494N	154-565W	sCRGNO3WT

*** ECHOSOUNDER RECORDS ***

0515	290487			DPR3 B	3.5KHZ R-01	GDC	17-318S	149-340W	sCRGNO3WT
0245	020587			DPR3 E	3.5KHZ R-01	GDC	12-367S	157-305W	sCRGNO3WT
0255	020587			DPR3 B	3.5KHZ R-02	GDC	12-357S	157-322W	sCRGNO3WT
0616	040587			DPR3 E	3.5KHZ R-02	GDC	11-170S	159-314W	sCRGNO3WT
1018	040587			DPR3 B	3.5KHZ R-03	GDC	11-186S	159-293W	sCRGNO3WT
056	080587			DPR3 E	3.5KHZ R-03	GDC	7-516S	159-251W	sCRGNO3WT
1903	080587			DPR3 B	3.5KHZ R-04	GDC	7-504S	159-251W	sCRGNO3WT
0059	120587			DPR3 E	3.5KHZ R-04	GDC	5-531S	158-282W	sCRGNO3WT
0103	120587			DPR3 B	3.5KHZ R-05	GDC	5-526S	158-286W	sCRGNO3WT
2114	140587			DPR3 E	3.5KHZ R-05	GDC	4-107S	159-124W	sCRGNO3WT
2126	140587			DPR3 B	3.5KHZ R-06	GDC	4-104S	159-116W	sCRGNO3WT
1838	170587			DPR3 E	3.5KHZ R-06	GDC	2-270S	157-354W	sCRGNO3WT
1842	170587			DPR3 B	3.5KHZ R-07	GDC	2-270S	157-347W	sCRGNO3WT
1820	200587			DPR3 E	3.5KHZ R-07	GDC	3-494S	157-047W	sCRGNO3WT
1825	200587			DPR3 B	3.5KHZ R-08	GDC	3-493S	157-047W	sCRGNO3WT
1836	230587			DPR3 E	3.5KHZ R-08	GDC	3-584S	154-573W	sCRGNO3WT
1848	230587			DPR3 B	3.5KHZ R-09	GDC	3-596S	154-593W	sCRGNO3WT
1651	260587			DPR3 E	3.5KHZ R-09	GDC	0-543S	158-342W	sCRGNO3WT
1657	260587			DPR3 B	3.5KHZ R-10	GDC	0-539S	158-352W	sCRGNO3WT
1115	290587			DPR3 E	3.5KHZ R-10	GDC	1-461N	162-150W	sCRGNO3WT
1124	290587			DPR3 B	3.5KHZ R-11	GDC	1-476N	162-144W	sCRGNO3WT
0353	310587			DPR3 E	3.5KHZ R-11	GDC	7-465N	159-371W	sCRGNO3WT

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

0310	300487			MBRM B	SEABEAM MONITOR R-01	GDC	17-250S	149-440W	sCRGN03WT
2029	060587			MBRM E	SEABEAM MONITOR R-01	GDC	8-287S	159-301W	sCRGN03WT
2047	060587			MBRM B	SEABEAM MONITOR R-02	GDC	8-288S	159-294W	sCRGN03WT
0820	130587			MBRM E	SEABEAM MONITOR R-02	GDC	5-209S	158-050W	sCRGN03WT
0827	130587			MBRM B	SEABEAM MONITOR R-03	GDC	5-203S	158-058W	sCRGN03WT
0230	200587			MBRM E	SEABEAM MONITOR R-03	GDC	2-592S	157-106W	sCRGN03WT
0230	200587			MBRM B	SEABEAM MONITOR R-04	GDC	2-592S	157-106W	sCRGN03WT
1703	260587			MBRM E	SEABEAM MONITOR R-04	GDC	0-534S	158-361W	sCRGN03WT
1711	260587			MBRM B	SEABEAM MONITOR R-05	GDC	0-529S	158-374W	sCRGN03WT
0157	020687			MBRM E	SEABEAM MONITOR R-05	GDC	14-026N	157-006W	sCRGN03WT
0200	020687			MBRM B	SEABEAM MONITOR R-06	GDC	14-029N	157-005W	sCRGN03WT
1609	030687			MBRM E	SEABEAM MONITOR R-06	GDC	19-499N	154-577W	sCRGN03WT

*** SEABEAM ARCHIVE SWATH BOOKS ***

0310	300487			MBSB B	ARCHIVE SWATH 01	GDC	17-250S	149-440W	sCRGN03WT
2335	010587			MBSB E	ARCHIVE SWATH 01	GDC	12-557S	156-591W	sCRGN03WT
2335	010587			MBSB B	ARCHIVE SWATH 02	GDC	12-557S	156-591W	sCRGN03WT
1520	040587			MBSB E	ARCHIVE SWATH 02	GDC	10-224S	159-313W	sCRGN03WT
1520	040587			MBSB B	ARCHIVE SWATH 03	GDC	10-224S	159-313W	sCRGN03WT
1037	070587			MBSB E	ARCHIVE SWATH 03	GDC	7-479S	159-115W	sCRGN03WT
1037	070587			MBSB B	ARCHIVE SWATH 04	GDC	7-479S	159-115W	sCRGN03WT
0214	100587			MBSB E	ARCHIVE SWATH 04	GDC	7-001S	158-559W	sCRGN03WT
0214	100587			MBSB B	ARCHIVE SWATH 05	GDC	7-001S	158-559W	sCRGN03WT
1023	120587			MBSB E	ARCHIVE SWATH 05	GDC	5-444S	157-446W	sCRGN03WT

#GMT #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1023 0758	120587 150587			MBSB B MBSB E	ARCHIVE SWATH ARCHIVE SWATH	06 06	GDC 5-444S GDC 3-579S	157-446W 159-440W	sCRGNO3WT sCRGNO3WT
0758 1859	150587 170587			MBSB B MBSB E	ARCHIVE SWATH ARCHIVE SWATH	07 07	GDC 3-579S GDC 2-270S	159-440W 157-319W	sCRGNO3WT sCRGNO3WT
1859 1052	170587 200587			MBSB B MBSB E	ARCHIVE SWATH ARCHIVE SWATH	08 08	GDC 2-270S GDC 3-538S	157-319W 157-106W	sCRGNO3WT sCRGNO3WT
1052 1714	200587 220587			MBSB B MBSB E	ARCHIVE SWATH ARCHIVE SWATH	09 09	GDC 3-538S GDC 5-389S	157-106W 156-064W	sCRGNO3WT sCRGNO3WT
1715 1807	220587 240587			MBSB B MBSB E	ARCHIVE SWATH ARCHIVE SWATH	10 10	GDC 5-391S GDC 2-495S	156-064W 155-466W	sCRGNO3WT sCRGNO3WT
1807 0212	240587 270587			MBSB B MBSB E	ARCHIVE SWATH ARCHIVE SWATH	11 11	GDC 2-495S GDC 0-532S	155-466W 159-136W	sCRGNO3WT sCRGNO3WT
0212 0604	270587 290587			MBSB B MBSB E	ARCHIVE SWATH ARCHIVE SWATH	12 12	GDC 0-532S GDC 0-518N	159-136W 162-359W	sCRGNO3WT sCRGNO3WT
0606 0437	290587 310587			MBSB B MBSB E	ARCHIVE SWATH ARCHIVE SWATH	13 13	GDC 0-522N GDC 7-529N	162-357W 159-347W	sCRGNO3WT sCRGNO3WT
0437 0736	310587 020687			MBSB B MBSB E	ARCHIVE SWATH ARCHIVE SWATH	14 14	GDC 7-529N GDC 15-003N	159-347W 156-384W	sCRGNO3WT sCRGNO3WT
0736 1609	020687 030687			MBSB B MBSB E	ARCHIVE SWATH ARCHIVE SWATH	15 15	GDC 15-003N GDC 19-499N	156-384W 154-577W	sCRGNO3WT sCRGNO3WT

**** CORES ****

0602	040587			COPS	CORE G-29 5304M		GCR 11-170S	159-313W	sCRGNO3WT
0602	040587			COPG	CORE G-29		GCR 11-170S	159-313W	sCRGNO3WT
0054	050587			COBX X	BOX CORE BX-30		ICL 8-431S	159-279W	sCRGNO3WT
0135	060587			COBX X	BOX CORE BX-35		ICL 8-441S	159-239W	sCRGNO3WT
0433	080587			COBX	BOX CORE 5510M BX-49		ICL 7-565S	159-204W	sCRGNO3WT
0514	090587			COPS	CORE G-53		GCR 7-348S	159-283W	sCRGNO3WT
0329	110587			COBX	BOX CORE 5272M BX-64		ICL 6-466S	159-219W	sCRGNO3WT
0344	120587			COGV	CORE G-71		GCR 5-530S	158-280W	sCRGNO3WT
0532	130587			COBX	BOX CORE 5155M BX-76		ICL 5-225S	158-040W	sCRGNO3WT
513	140587			COBX	BOX CORE 5099M BX-83		ICL 4-447S	158-502W	sCRGNO3WT
543	160587			COBX	BOX CORE 5028M BX-91		ICL 3-494S	159-489W	sCRGNO3WT
0300	170587			COPS	CORE G-96 5280M		GCR 3-492S	159-487W	sCRGNO3WT
0259	180587			COBX	BOX CORE 5141M BX102		ICL 2-270S	157-357W	sCRGNO3WT
0412	190587			COBX	BOX CORE 5241M BX109		ICL 1-177S	158-364W	sCRGNO3WT

#GMT #TIME	DDMMYY DATE	LOC T TIME Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
0315	220587		COBX	BOX CORE 5340M BX128	ICL	5-394S	157-183W	sCRGNO3WT
0646	280587		COBX	BOX CORE 5120M BX158	ICL	0-249N	162-559W	sCRGNO3WT
0141	290587		COBX	BOX CORE 5348M BX163	ICL	0-298N	162-476W	sCRGNO3WT
2343	010687		COBX X	BOX CORE 5797M BX165	ICL	14-019N	157-011W	sCRGNO3WT

*** FREEFALL GRAB SAMPLES ***

1840	030587		GBFF B	FREEFALL GRAB FGB-25	ICL	11-164S	159-293W	sCRGNO3WT
2103	030587		GBFF E	FREEFALL GRAB FGB-25	ICL	11-163S	159-293W	sCRGNO3WT
1904	030587		GBFF B	FREEFALL GRAB FGB-26	ICL	11-165S	159-299W	sCRGNO3WT
2133	030587		GBFF E	FREEFALL GRAB FGB-26	ICL	11-165S	159-299W	sCRGNO3WT
1930	030587		GBFF B	FREEFALL GRAB FGB-27	ICL	11-165S	159-305W	sCRGNO3WT
2155	030587		GBFF E	FREEFALL GRAB FGB-27	ICL	11-165S	159-305W	sCRGNO3WT
1958	030587		GBFF B	FREEFALL GRAB FGB-28	ICL	11-162S	159-321W	sCRGNO3WT
2226	030587		GBFF E	FREEFALL GRAB FGB-28	ICL	11-161S	159-322W	sCRGNO3WT
2044	050587		GBFF B	FREEFALL GRAB FGB-31	ICL	8-413S	159-203W	sCRGNO3WT
2308	050587		GBFF E	FREEFALL GRAB FGB-31	ICL	8-413S	159-200W	sCRGNO3WT
2104	050587		GBFF B	FREEFALL GRAB FGB-32	ICL	8-417S	159-203W	sCRGNO3WT
2335	050587		GBFF E	FREEFALL GRAB FGB-32	ICL	8-418S	159-201W	sCRGNO3WT
2128	050587		GBFF B	FREEFALL GRAB FGB-33	ICL	8-430S	159-202W	sCRGNO3WT
2356	050587		GBFF E	FREEFALL GRAB FGB-33	ICL	8-431S	159-203W	sCRGNO3WT
2156	050587		GBFF B	FREEFALL GRAB FGB-34	ICL	8-443S	159-204W	sCRGNO3WT
0015	060587		GBFF E	FREEFALL GRAB FGB-34	ICL	8-443S	159-204W	sCRGNO3WT
1910	060587		GBFF B	FREEFALL GRAB FGB-36	ICL	8-288S	159-301W	sCRGNO3WT
2144	060587		GBFF E	FREEFALL GRAB FGB-36	ICL	8-287S	159-304W	sCRGNO3WT
1925	060587		GBFF B	FREEFALL GRAB FGB-37	ICL	8-288S	159-307W	sCRGNO3WT
2200	060587		GBFF E	FREEFALL GRAB FGB-37	ICL	8-287S	159-311W	sCRGNO3WT
1938	060587		GBFF B	FREEFALL GRAB FGB-38	ICL	8-287S	159-314W	sCRGNO3WT
2229	060587		GBFF E	FREEFALL GRAB FGB-38	ICL	8-284S	159-320W	sCRGNO3WT
1950	060587		GBFF B	FREEFALL GRAB FGB-39	ICL	8-287S	159-319W	sCRGNO3WT
2245	060587		GBFF E	FREEFALL GRAB FGB-39	ICL	8-284S	159-328W	sCRGNO3WT
0040	070587		GBFF B	FREEFALL GRAB FGB-40	ICL	8-224S	159-236W	sCRGNO3WT
0257	070587		GBFF E	FREEFALL GRAB FGB-40	ICL	8-216S	159-246W	sCRGNO3WT
0052	070587		GBFF B	FREEFALL GRAB FGB-41	ICL	8-226S	159-240W	sCRGNO3WT
0300	070587		GBFF E	FREEFALL GRAB FGB-41	ICL	8-217S	159-244W	sCRGNO3WT
0113	070587		GBFF B	FREEFALL GRAB FGB-42	ICL	8-225S	159-243W	sCRGNO3WT
0347	070587		GBFF E	FREEFALL GRAB FGB-42	ICL	8-222S	159-246W	sCRGNO3WT
1931	070587		GBFF B	FREEFALL GRAB FGB-43	ICL	7-565S	159-257W	sCRGNO3WT
2319	070587		GBFF E	FREEFALL GRAB FGB-43	ICL	7-563S	159-269W	sCRGNO3WT
1955	070587		GBFF B	FREEFALL GRAB FGB-44	ICL	7-567S	159-249W	sCRGNO3WT
2339	070587		GBFF E	FREEFALL GRAB FGB-44	ICL	7-565S	159-259W	sCRGNO3WT
2035	070587		GBFF B	FREEFALL GRAB FGB-45	ICL	7-571S	159-229W	sCRGNO3WT
0005	080587		GBFF E	FREEFALL GRAB FGB-45	ICL	7-568S	159-238W	sCRGNO3WT
2104	070587		GBFF B	FREEFALL GRAB FGB-46	ICL	7-572S	159-226W	sCRGNO3WT
0018	080587		GBFF E	FREEFALL GRAB FGB-46	ICL	7-569S	159-234W	sCRGNO3WT
2123	070587		GBFF B	FREEFALL GRAB FGB-47	ICL	7-573S	159-221W	sCRGNO3WT
0034	080587		GBFF E	FREEFALL GRAB FGB-47	ICL	7-571S	159-229W	sCRGNO3WT
2152	070587		GBFF B	FREEFALL GRAB FGB-48	ICL	7-572S	159-207W	sCRGNO3WT
1816	080587		GBFF E	UP 5HRS LATE FGB-48	ICL	7-579S	159-252W	sCRGNO3WT

#GMT #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER			DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
2109	080587			GBFF B	FREEFALL	GRAB	FGB-50	ICL	7-357S	159-278W	sCRGNO3WT
0013	090587			GBFF E	FREEFALL	GRAB	FGB-50	ICL	7-357S	159-284W	sCRGNO3WT
2154	080587			GBFF B	FREEFALL	GRAB	FGB-51	ICL	7-377S	159-276W	sCRGNO3WT
0036	090587			GBFF E	FREEFALL	GRAB	FGB-51	ICL	7-376S	159-278W	sCRGNO3WT
2239	080587			GBFF B	FREEFALL	GRAB	FGB-52	ICL	7-410S	159-249W	sCRGNO3WT
0110	090587			GBFF E	FREEFALL	GRAB	FGB-52	ICL	7-409S	159-250W	sCRGNO3WT
2022	090587			GBFF B	FREEFALL	GRAB	FGB-54	ICL	7-167S	158-401W	sCRGNO3WT
2239	090587			GBFF E	FREEFALL	GRAB	FGB-54	ICL	7-167S	158-402W	sCRGNO3WT
2035	090587			GBFF B	FREEFALL	GRAB	FGB-55	ICL	7-166S	158-399W	sCRGNO3WT
2306	090587			GBFF E	FREEFALL	GRAB	FGB-55	ICL	7-165S	158-399W	sCRGNO3WT
2057	090587			GBFF B	FREEFALL	GRAB	FGB-56	ICL	7-166S	158-395W	sCRGNO3WT
2314	090587			GBFF E	FREEFALL	GRAB	FGB-56	ICL	7-166S	158-397W	sCRGNO3WT
2140	090587			GBFF B	FREEFALL	GRAB	FGB-57	ICL	7-185S	158-400W	sCRGNO3WT
0001	100587			GBFF E	FREEFALL	GRAB	FGB-57	ICL	7-184S	158-401W	sCRGNO3WT
1902	100587			GBFF B	FREEFALL	GRAB	FGB-58	ICL	6-445S	159-211W	sCRGNO3WT
2202	100587			GBFF E	FREEFALL	GRAB	FGB-58	ICL	6-444S	159-209W	sCRGNO3WT
1929	100587			GBFF B	FREEFALL	GRAB	FGB-59	ICL	6-429S	159-211W	sCRGNO3WT
220	100587			GBFF E	FREEFALL	GRAB	FGB-59	ICL	6-429S	159-209W	sCRGNO3WT
2248	100587			GBFF B	FREEFALL	GRAB	FGB-60	ICL	6-418S	159-210W	sCRGNO3WT
2235	100587			GBFF E	FREEFALL	GRAB	FGB-60	ICL	6-418S	159-209W	sCRGNO3WT
2008	100587			GBFF B	FREEFALL	GRAB	FGB-61	ICL	6-407S	159-210W	sCRGNO3WT
2249	100587			GBFF E	FREEFALL	GRAB	FGB-61	ICL	6-408S	159-209W	sCRGNO3WT
2017	100587			GBFF B	FREEFALL	GRAB	FGB-62	ICL	6-402S	159-209W	sCRGNO3WT
2311	100587			GBFF E	FREEFALL	GRAB	FGB-62	ICL	6-403S	159-210W	sCRGNO3WT
2044	100587			GBFF B	FREEFALL	GRAB	FGB-63	ICL	6-398S	159-209W	sCRGNO3WT
2320	100587			GBFF E	FREEFALL	GRAB	FGB-63	ICL	6-397S	159-209W	sCRGNO3WT
1902	110587			GBFF B	FREEFALL	GRAB	FGB-65	ICL	5-489S	158-271W	sCRGNO3WT
2309	110587			GBFF E	FREEFALL	GRAB	FGB-65	ICL	5-481S	158-281W	sCRGNO3WT
1923	110587			GBFF B	FREEFALL	GRAB	FGB-66	ICL	5-497S	158-270W	sCRGNO3WT
2326	110587			GBFF E	FREEFALL	GRAB	FGB-66	ICL	5-489S	158-278W	sCRGNO3WT
1935	110587			GBFF B	FREEFALL	GRAB	FGB-67	ICL	5-500S	158-270W	sCRGNO3WT
2337	110587			GBFF E	FREEFALL	GRAB	FGB-67	ICL	5-493S	158-280W	sCRGNO3WT
2023	110587			GBFF B	FREEFALL	GRAB	FGB-68	ICL	5-530S	158-270W	sCRGNO3WT
0109	120587			GBFF E	FREEFALL	GRAB	FGB-68	ICL	5-523S	158-286W	sCRGNO3WT
2100	110587			GBFF B	FREEFALL	GRAB	FGB-69	ICL	5-543S	158-268W	sCRGNO3WT
0052	120587			GBFF E	FREEFALL	GRAB	FGB-69	ICL	5-539S	158-281W	sCRGNO3WT
2127	110587			GBFF X	FREEFALL	GRAB	FGB-70	ICL	5-557S	158-270W	sCRGNO3WT
1903	120587			GBFF B	FREEFALL	GRAB	FGB-72	ICL	5-222S	157-589W	sCRGNO3WT
0104	130587			GBFF E	FREEFALL	GRAB	FGB-72	ICL	5-219S	157-597W	sCRGNO3WT
1938	120587			GBFF B	FREEFALL	GRAB	FGB-73	ICL	5-223S	157-578W	sCRGNO3WT
2253	120587			GBFF E	FREEFALL	GRAB	FGB-73	ICL	5-223S	157-583W	sCRGNO3WT
1956	120587			GBFF B	FREEFALL	GRAB	FGB-74	ICL	5-223S	157-570W	sCRGNO3WT
2319	120587			GBFF E	FREEFALL	GRAB	FGB-74	ICL	5-223S	157-574W	sCRGNO3WT
239	120587			GBFF B	FREEFALL	GRAB	FGB-75	ICL	5-223S	157-542W	sCRGNO3WT
2350	120587			GBFF E	FREEFALL	GRAB	FGB-75	ICL	5-223S	157-544W	sCRGNO3WT
1851	130587			GBFF B	FREEFALL	GRAB	FGB-77	ICL	4-425S	158-506W	sCRGNO3WT
0003	140587			GBFF E	FREEFALL	GRAB	FGB-77	ICL	4-429S	158-524W	sCRGNO3WT

#GMT #TIME #	DDMMYY DATE	LOC T TIME Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1924	130587		GBFF B	FREEFALL GRAB FGB-78	ICL	4-435S	158-504W	sCRGN03WT
0018	140587		GBFF E	FREEFALL GRAB FGB-78	ICL	4-440S	158-523W	sCRGN03WT
1945	130587		GBFF B	FREEFALL GRAB FGB-79	ICL	4-447S	158-499W	sCRGN03WT
0038	140587		GBFF E	FREEFALL GRAB FGB-79	ICL	4-454S	158-519W	sCRGN03WT
2002	130587		GBFF B	FREEFALL GRAB FGB-80	ICL	4-459S	158-492W	sCRGN03WT
0051	140587		GBFF E	FREEFALL GRAB FGB-80	ICL	4-462S	158-515W	sCRGN03WT
2037	130587		GBFF B	FREEFALL GRAB FGB-81	ICL	4-494S	158-482W	sCRGN03WT
0119	140587		GBFF E	FREEFALL GRAB FGB-81	ICL	4-495S	158-508W	sCRGN03WT
2104	130587		GBFF B	FREEFALL GRAB FGB-82	ICL	4-521S	158-481W	sCRGN03WT
0144	140587		GBFF E	FREEFALL GRAB FGB-82	ICL	4-524S	158-509W	sCRGN03WT
1916	150587		GBFF B	FREEFALL GRAB FGB-86	ICL	3-477S	159-503W	sCRGN03WT
0010	160587		GBFF E	FREEFALL GRAB FGB-86	ICL	3-473S	159-511W	sCRGN03WT
1952	150587		GBFF B	FREEFALL GRAB FGB-87	ICL	3-494S	159-493W	sCRGN03WT
0035	160587		GBFF E	FREEFALL GRAB FGB-87	ICL	3-495S	159-497W	sCRGN03WT
2022	150587		GBFF B	FREEFALL GRAB FGB-88	ICL	3-510S	159-484W	sCRGN03WT
0050	160587		GBFF E	FREEFALL GRAB FGB-88	ICL	3-508S	159-490W	sCRGN03WT
2121	150587		GBFF B	FREEFALL GRAB FGB-89	ICL	3-558S	159-446W	sCRGN03WT
0155	160587		GBFF E	FREEFALL GRAB FGB-89	ICL	3-558S	159-453W	sCRGN03WT
2146	150587		GBFF B	FREEFALL GRAB FGB-90	ICL	3-548S	159-454W	sCRGN03WT
0139	160587		GBFF E	FREEFALL GRAB FGB-90	ICL	3-549S	159-459W	sCRGN03WT
1927	160587		GBFF B	FREEFALL GRAB FGB-92	ICL	3-101S	159-063W	sCRGN03WT
2238	160587		GBFF E	FREEFALL GRAB FGB-92	ICL	3-096S	159-063W	sCRGN03WT
1954	160587		GBFF B	FREEFALL GRAB FGB-93	ICL	3-100S	159-045W	sCRGN03WT
2257	160587		GBFF E	FREEFALL GRAB FGB-93	ICL	3-096S	159-046W	sCRGN03WT
2009	160587		GBFF B	FREEFALL GRAB FGB-94	ICL	3-098S	159-039W	sCRGN03WT
2307	160587		GBFF E	FREEFALL GRAB FGB-94	ICL	3-096S	159-040W	sCRGN03WT
2047	160587		GBFF B	FREEFALL GRAB FGB-95	ICL	3-098S	159-012W	sCRGN03WT
2329	160587		GBFF E	FREEFALL GRAB FGB-95	ICL	3-096S	159-013W	sCRGN03WT
1942	170587		GBFF B	FREEFALL GRAB FGB-97	ICL	2-272S	157-344W	sCRGN03WT
2244	170587		GBFF E	FREEFALL GRAB FGB-97	ICL	2-268S	157-344W	sCRGN03WT
1958	170587		GBFF B	FREEFALL GRAB FGB-98	ICL	2-271S	157-347W	sCRGN03WT
2256	170587		GBFF E	FREEFALL GRAB FGB-98	ICL	2-269S	157-349W	sCRGN03WT
2019	170587		GBFF B	FREEFALL GRAB FGB-99	ICL	2-271S	157-359W	sCRGN03WT
2310	170587		GBFF E	FREEFALL GRAB FGB-99	ICL	2-269S	157-359W	sCRGN03WT
2039	170587		GBFF B	FREEFALL GRAB FGB100	ICL	2-272S	157-368W	sCRGN03WT
2341	170587		GBFF E	FREEFALL GRAB FGB100	ICL	2-270S	157-368W	sCRGN03WT
2106	170587		GBFF B	FREEFALL GRAB FGB101	ICL	2-276S	157-363W	sCRGN03WT
2327	170587		GBFF E	FREEFALL GRAB FGB101	ICL	2-275S	157-363W	sCRGN03WT
1938	180587		GBFF B	FREEFALL GRAB FGB103	ICL	1-212S	158-362W	sCRGN03WT
2248	180587		GBFF E	FREEFALL GRAB FGB103	ICL	1-206S	158-360W	sCRGN03WT
2018	180587		GBFF B	FREEFALL GRAB FGB104	ICL	1-167S	158-363W	sCRGN03WT
2322	180587		GBFF E	FREEFALL GRAB FGB104	ICL	1-163S	158-361W	sCRGN03WT
2046	180587		GBFF B	FREEFALL GRAB FGB105	ICL	1-172S	158-390W	sCRGN03WT
2346	180587		GBFF E	FREEFALL GRAB FGB105	ICL	1-167S	158-389W	sCRGN03WT

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#TIME	DATE	TIME Z	CODE	IDENTIFIER	CODE			LEG-SHIP
2105	180587		GBFF B	FREEFALL GRAB FGB106	ICL	1-175S	158-398W	sCRGNO3WT
0002	190587		GBFF E	FREEFALL GRAB FGB106	ICL	1-169S	158-396W	sCRGNO3WT
2129	180587		GBFF B	FREEFALL GRAB FGB107	ICL	1-182S	158-407W	sCRGNO3WT
0025	190587		GBFF E	FREEFALL GRAB FGB107	ICL	1-176S	158-405W	sCRGNO3WT
2201	180587		GBFF B	FREEFALL GRAB FGB108	ICL	1-198S	158-384W	sCRGNO3WT
0054	190587		GBFF E	FREEFALL GRAB FGB108	ICL	1-192S	158-382W	sCRGNO3WT
1932	190587		GBFF B	FREEFALL GRAB FGB110	ICL	2-156S	157-029W	sCRGNO3WT
2202	190587		GBFF E	FREEFALL GRAB FGB110	ICL	2-158S	157-033W	sCRGNO3WT
1943	190587		GBFF B	FREEFALL GRAB FGB111	ICL	2-161S	157-032W	sCRGNO3WT
2219	190587		GBFF E	FREEFALL GRAB FGB111	ICL	2-162S	157-036W	sCRGNO3WT
2004	190587		GBFF B	FREEFALL GRAB FGB112	ICL	2-169S	157-036W	sCRGNO3WT
2233	190587		GBFF E	FREEFALL GRAB FGB112	ICL	2-170S	157-042W	sCRGNO3WT
0336	200587		GBFF B	FREEFALL GRAB FGB113	ICL	3-082S	157-097W	sCRGNO3WT
0603	200587		GBFF E	FREEFALL GRAB FGB113	ICL	3-082S	157-095W	sCRGNO3WT
0347	200587		GBFF B	FREEFALL GRAB FGB114	ICL	3-083S	157-108W	sCRGNO3WT
0627	200587		GBFF E	FREEFALL GRAB FGB114	ICL	3-083S	157-110W	sCRGNO3WT
0402	200587		GBFF B	FREEFALL GRAB FGB115	ICL	3-075S	157-107W	sCRGNO3WT
0533	200587		GBFF E	FREEFALL GRAB FGB115	ICL	3-077S	157-109W	sCRGNO3WT
1823	200587		GBFF B	FREEFALL GRAB FGB116	ICL	3-493S	157-047W	sCRGNO3WT
2042	200587		GBFF E	FREEFALL GRAB FGB116	ICL	3-492S	157-048W	sCRGNO3WT
1844	200587		GBFF B	FREEFALL GRAB FGB117	ICL	3-493S	157-044W	sCRGNO3WT
2056	200587		GBFF E	FREEFALL GRAB FGB117	ICL	3-491S	157-044W	sCRGNO3WT
1902	200587		GBFF B	FREEFALL GRAB FGB118	ICL	3-491S	157-050W	sCRGNO3WT
2123	200587		GBFF E	FREEFALL GRAB FGB118	ICL	3-490S	157-052W	sCRGNO3WT
1931	200587		GBFF B	FREEFALL GRAB FGB119	ICL	3-484S	157-085W	sCRGNO3WT
2153	200587		GBFF E	FREEFALL GRAB FGB119	ICL	3-484S	157-087W	sCRGNO3WT
0349	210587		GBFF B	FREEFALL GRAB FGB120	ICL	4-212S	156-462W	sCRGNO3WT
0602	210587		GBFF E	FREEFALL GRAB FGB120	ICL	4-211S	156-458W	sCRGNO3WT
0415	210587		GBFF B	FREEFALL GRAB FGB121	ICL	4-222S	156-458W	sCRGNO3WT
0630	210587		GBFF E	FREEFALL GRAB FGB121	ICL	4-220S	156-453W	sCRGNO3WT
0424	210587		GBFF B	FREEFALL GRAB FGB122	ICL	4-223S	156-458W	sCRGNO3WT
0652	210587		GBFF E	FREEFALL GRAB FGB122	ICL	4-223S	156-454W	sCRGNO3WT
0442	210587		GBFF B	FREEFALL GRAB FGB123	ICL	4-230S	156-456W	sCRGNO3WT
0712	210587		GBFF E	FREEFALL GRAB FGB123	ICL	4-230S	156-452W	sCRGNO3WT
2001	210587		GBFF B	FREEFALL GRAB FGB124	ICL	5-383S	157-178W	sCRGNO3WT
2301	210587		GBFF E	FREEFALL GRAB FGB124	ICL	5-382S	157-184W	sCRGNO3WT
2026	210587		GBFF B	FREEFALL GRAB FGB125	ICL	5-372S	157-170W	sCRGNO3WT
2326	210587		GBFF E	FREEFALL GRAB FGB125	ICL	5-372S	157-179W	sCRGNO3WT
2041	210587		GBFF B	FREEFALL GRAB FGB126	ICL	5-368S	157-170W	sCRGNO3WT
2335	210587		GBFF E	FREEFALL GRAB FGB126	ICL	5-369S	157-179W	sCRGNO3WT
2118	210587		GBFF B	FREEFALL GRAB FGB127	ICL	5-334S	157-177W	sCRGNO3WT
0007	220587		GBFF E	FREEFALL GRAB FGB127	ICL	5-335S	157-185W	sCRGNO3WT
0326	220587		GBFF B	FREEFALL GRAB FGB129	ICL	5-421S	156-089W	sCRGNO3WT
02036	220587		GBFF E	FREEFALL GRAB FGB129	ICL	5-421S	156-090W	sCRGNO3WT
1849	220587		GBFF B	FREEFALL GRAB FGB130	ICL	5-421S	156-103W	sCRGNO3WT
2056	220587		GBFF E	FREEFALL GRAB FGB130	ICL	5-421S	156-103W	sCRGNO3WT

#GMT #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1907	220587			GBFF B	FREEFALL GRAB FGB131	ICL	5-420S	156-116W	sCRGN03WT
2120	220587			GBFF E	FREEFALL GRAB FGB131	ICL	5-420S	156-115W	sCRGN03WT
1931	220587			GBFF B	FREEFALL GRAB FGB132	ICL	5-418S	156-135W	sCRGN03WT
2141	220587			GBFF E	FREEFALL GRAB FGB132	ICL	5-418S	156-134W	sCRGN03WT
0405	230587			GBFF B	FREEFALL GRAB FGB133	ICL	5-007S	155-345W	sCRGN03WT
0639	230587			GBFF E	FREEFALL GRAB FGB133	ICL	5-013S	155-346W	sCRGN03WT
0420	230587			GBFF B	FREEFALL GRAB FGB134	ICL	5-014S	155-350W	sCRGN03WT
0640	230587			GBFF E	FREEFALL GRAB FGB134	ICL	5-013S	155-346W	sCRGN03WT
0450	230587			GBFF B	FREEFALL GRAB FGB135	ICL	5-023S	155-356W	sCRGN03WT
0704	230587			GBFF E	FREEFALL GRAB FGB135	ICL	5-023S	155-353W	sCRGN03WT
0503	230587			GBFF B	FREEFALL GRAB FGB136	ICL	5-022S	155-356W	sCRGN03WT
0718	230587			GBFF E	FREEFALL GRAB FGB136	ICL	5-022S	155-354W	sCRGN03WT
0008	240587			GBFF B	FREEFALL GRAB FGB137	ICL	3-410S	155-279W	sCRGN03WT
0220	240587			GBFF E	FREEFALL GRAB FGB137	ICL	3-408S	155-282W	sCRGN03WT
0035	240587			GBFF B	FREEFALL GRAB FGB138	ICL	3-419S	155-273W	sCRGN03WT
0238	240587			GBFF E	FREEFALL GRAB FGB138	ICL	3-420S	155-274W	sCRGN03WT
0057	240587			GBFF B	FREEFALL GRAB FGB139	ICL	3-417S	155-267W	sCRGN03WT
0256	240587			GBFF E	FREEFALL GRAB FGB139	ICL	3-416S	155-268W	sCRGN03WT
0108	240587			GBFF B	FREEFALL GRAB FGB140	ICL	3-419S	155-264W	sCRGN03WT
0314	240587			GBFF E	FREEFALL GRAB FGB140	ICL	3-419S	155-266W	sCRGN03WT
1926	240587			GBFF B	FREEFALL GRAB FGB141	ICL	2-514S	155-556W	sCRGN03WT
2303	240587			GBFF E	FREEFALL GRAB FGB141	ICL	2-515S	155-547W	sCRGN03WT
1951	240587			GBFF B	FREEFALL GRAB FGB142	ICL	2-515S	155-541W	sCRGN03WT
2320	240587			GBFF E	FREEFALL GRAB FGB142	ICL	2-515S	155-532W	sCRGN03WT
2008	240587			GBFF B	FREEFALL GRAB FGB143	ICL	2-515S	155-532W	sCRGN03WT
2346	240587			GBFF E	FREEFALL GRAB FGB143	ICL	2-514S	155-521W	sCRGN03WT
2019	240587			GBFF B	FREEFALL GRAB FGB144	ICL	2-515S	155-529W	sCRGN03WT
2337	240587			GBFF E	FREEFALL GRAB FGB144	ICL	2-514S	155-520W	sCRGN03WT
2035	240587			GBFF B	FREEFALL GRAB FGB145	ICL	2-515S	155-525W	sCRGN03WT
0009	250587			GBFF E	FREEFALL GRAB FGB145	ICL	2-515S	155-514W	sCRGN03WT
2045	240587			GBFF B	FREEFALL GRAB FGB146	ICL	2-515S	155-522W	sCRGN03WT
0000	250587			GBFF E	FREEFALL GRAB FGB146	ICL	2-514S	155-512W	sCRGN03WT
2124	240587			GBFF B	FREEFALL GRAB FGB147	ICL	2-510S	155-511W	sCRGN03WT
0029	250587			GBFF E	FREEFALL GRAB FGB147	ICL	2-509S	155-503W	sCRGN03WT
0237	260587			GBFF B	FREEFALL GRAB FGB150	ICL	1-416S	156-500W	sCRGN03WT
0456	260587			GBFF E	FREEFALL GRAB FGB150	ICL	1-418S	156-495W	sCRGN03WT
0250	260587			GBFF B	FREEFALL GRAB FGB151	ICL	1-413S	156-504W	sCRGN03WT
0512	260587			GBFF E	FREEFALL GRAB FGB151	ICL	1-414S	156-499W	sCRGN03WT
0302	260587			GBFF B	FREEFALL GRAB FGB152	ICL	1-409S	156-509W	sCRGN03WT
0525	260587			GBFF E	FREEFALL GRAB FGB152	ICL	1-411S	156-502W	sCRGN03WT

#GMT #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER			DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
0321	260587			GBFF B	FREEFALL	GRAB	FGB153	ICL	1-410S	156-512W	sCRGNO3WT
0534	260587			GBFF E	FREEFALL	GRAB	FGB153	ICL	1-411S	156-506W	sCRGNO3WT
2213	260587			GBFF B	FREEFALL	GRAB	FGB154	ICL	0-521S	159-246W	sCRGNO3WT
0101	270587			GBFF E	FREEFALL	GRAB	FGB154	ICL	0-523S	159-239W	sCRGNO3WT
2253	260587			GBFF B	FREEFALL	GRAB	FGB155	ICL	0-526S	159-214W	sCRGNO3WT
0125	270587			GBFF E	FREEFALL	GRAB	FGB155	ICL	0-530S	159-211W	sCRGNO3WT
2316	260587			GBFF B	FREEFALL	GRAB	FGB156	ICL	0-528S	159-198W	sCRGNO3WT
0140	270587			GBFF E	FREEFALL	GRAB	FGB156	ICL	0-532S	159-196W	sCRGNO3WT
2354	260587			GBFF X	FREEFALL	GRAB	FGB157	ICL	0-532S	159-149W	sCRGNO3WT
1856	280587			GBFF B	FREEFALL	GRAB	FGB159	ICL	0-277N	162-506W	sCRGNO3WT
2132	280587			GBFF E	FREEFALL	GRAB	FGB159	ICL	0-278N	162-495W	sCRGNO3WT
1914	280587			GBFF B	FREEFALL	GRAB	FGB160	ICL	0-282N	162-500W	sCRGNO3WT
2143	280587			GBFF E	FREEFALL	GRAB	FGB160	ICL	0-283N	162-492W	sCRGNO3WT
1942	280587			GBFF B	FREEFALL	GRAB	FGB161	ICL	0-298N	162-487W	sCRGNO3WT
2226	280587			GBFF E	FREEFALL	GRAB	FGB161	ICL	0-300N	162-478W	sCRGNO3WT
1956	280587			GBFF B	FREEFALL	GRAB	FGB162	ICL	0-310N	162-485W	sCRGNO3WT
2239	280587			GBFF E	FREEFALL	GRAB	FGB162	ICL	0-312N	162-478W	sCRGNO3WT

*** DREDGES ***

2139	140587			DRRO B	DREDGE	D-84	1254M	GCR	4-106S	159-120W	sCRGNO3WT
2327	140587			DRRO E	DREDGE	D-84	1090M	GCR	4-107S	159-116W	sCRGNO3WT
0230	150587			DRRO B	DREDGE	D-85	1621M	GCR	4-118S	159-116W	sCRGNO3WT
0327	150587			DRRO E	DREDGE	D-85	1446M	GCR	4-124S	159-118W	sCRGNO3WT
0243	250587			DRRO B	DREDGE	D148	2677M	GCR	2-517S	155-512W	sCRGNO3WT
0353	250587			DRRO E	DREDGE	D148	2434M	GCR	2-517S	155-510W	sCRGNO3WT
1956	250587			DRRO B	DREDGE	D149	1440M	GCR	1-555S	156-185W	sCRGNO3WT
2104	250587			DRRO E	DREDGE	D149	1490M	GCR	1-554S	156-179W	sCRGNO3WT
0628	300587			DRRO B	DREDGE	D164	1504M	GCR	4-424N	160-503W	sCRGNO3WT
0739	300587			DRRO E	DREDGE	D164	1358M	GCR	4-432N	160-501W	sCRGNO3WT

*** EXPENDABLE BATHY THERMOGRAPHS ***

0038	010587			BTXP	XBT	001		NOA	15-112S	153-176W	sCRGNO3WT
0617	010587			BTXP	XBT	002		NOA	14-391S	154-129W	sCRGNO3WT
1320	010587			BTXP	XBT	003		NOA	13-571S	155-186W	sCRGNO3WT
1906	010587			BTXP	XBT	004		NOA	13-222S	156-136W	sCRGNO3WT
0151	020587			BTXP	XBT	005		NOA	12-424S	157-220W	sCRGNO3WT
0632	020587			BTXP	XBT	006		NOA	12-131S	158-070W	sCRGNO3WT
1204	020587			BTXP	XBT	007		NOA	11-383S	158-597W	sCRGNO3WT
0045	030587			BTXP	XBT	008		NOA	11-241S	159-003W	sCRGNO3WT
0538	030587			BTXP	XBT	009		NOA	11-216S	159-321W	sCRGNO3WT
2116	060587			BTXP	XBT	010		NOA	8-290S	159-298W	sCRGNO3WT

#GMT #TIME	DDMMYY DATE	LOC T TIME Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
0646	070587		BTXP	XBT 011	NOA	7-567S	159-193W	sCRGNO3WT
1851	080587		BTXP	XBT 012	NOA	7-525S	159-251W	sCRGNO3WT
2027	090587		BTXP	XBT 013	NOA	7-167S	158-400W	sCRGNO3WT
0705	100587		BTXP	XBT 014	NOA	6-503S	159-244W	sCRGNO3WT
1216	100587		BTXP	XBT 015	NOA	6-372S	159-187W	sCRGNO3WT
1736	120587		BTXP	XBT 016	NOA	5-223S	157-474W	sCRGNO3WT
2015	150587		BTXP	XBT 017	NOA	3-506S	159-485W	sCRGNO3WT
0720	160587		BTXP	XBT 018	NOA	3-509S	159-483W	sCRGNO3WT
1630	160587		BTXP	XBT 019	NOA	3-006S	158-584W	sCRGNO3WT
2111	160587		BTXP	XBT 020	NOA	3-097S	159-010W	sCRGNO3WT
1908	170587		BTXP	XBT 021	NOA	2-269S	157-328W	sCRGNO3WT
0735	180587		BTXP	XBT 022	NOA	2-122S	157-536W	sCRGNO3WT
1857	180587		BTXP	XBT 023	NOA	1-243S	158-363W	sCRGNO3WT
1831	190587		BTXP	XBT 024	NOA	2-186S	157-003W	sCRGNO3WT
0012	200587		BTXP	XBT 025	NOA	2-339S	157-072W	sCRGNO3WT
1854	200587		BTXP	XBT 026	NOA	3-492S	157-046W	sCRGNO3WT
0054	210587		BTXP	XBT 027	NOA	4-140S	156-514W	sCRGNO3WT
1244	210587		BTXP	XBT 028	NOA	5-116S	157-236W	sCRGNO3WT
1841	210587		BTXP	XBT 029	NOA	5-385S	157-194W	sCRGNO3WT
1916	220587		BTXP	XBT 030	NOA	5-420S	156-122W	sCRGNO3WT
0242	230587		BTXP	XBT 031	NOA	5-109S	155-395W	sCRGNO3WT
1916	220587		BTXP	XBT 032 (Duplicate of 30)	NOA	5-420S	156-122W	sCRGNO3WT
2224	230587		BTXP	XBT 033	NOA	3-493S	155-141W	sCRGNO3WT
1921	240587		BTXP	XBT 034	NOA	2-513S	155-558W	sCRGNO3WT
1841	250587		BTXP	XBT 035	NOA	1-543S	156-185W	sCRGNO3WT
2345	250587		BTXP	XBT 036	NOA	1-486S	156-322W	sCRGNO3WT
1900	260587		BTXP	XBT 037	NOA	0-504S	158-557W	sCRGNO3WT
1830	270587		BTXP	XBT 038	NOA	0-008S	161-330W	sCRGNO3WT
1858	280587		BTXP	XBT 039	NOA	0-278N	162-505W	sCRGNO3WT
2138	290587		BTXP	XBT 040	NOA	3-338N	161-308W	sCRGNO3WT
0614	300587		BTXP	XBT 041	NOA	4-423N	160-503W	sCRGNO3WT
1252	300587		BTXP	XBT 042	NOA	5-271N	160-322W	sCRGNO3WT
2120	300587		BTXP	XBT 043	NOA	6-473N	159-588W	sCRGNO3WT
0125	310587		BTXP	XBT 044	NOA	7-250N	159-452W	sCRGNO3WT
0647	310587		BTXP	XBT 045	NOA	8-120N	159-265W	sCRGNO3WT
1510	310587		BTXP	XBT 046	NOA	9-281N	158-544W	sCRGNO3WT
1817	310587		BTXP	XBT 047	NOA	9-570N	158-430W	sCRGNO3WT
0835	010687		BTXP	XBT 048	NOA	12-120N	157-458W	sCRGNO3WT
2309	010687		BTXP	XBT 049	NOA	14-017N	157-011W	sCRGNO3WT
0923	020687		BTXP	XBT 050	NOA	15-181N	156-297W	sCRGNO3WT
1228	020687		BTXP	XBT 051	NOA	15-490N	156-161W	sCRGNO3WT
1851	020687		BTXP	XBT 052	NOA	16-562N	155-527W	sCRGNO3WT

END SAMPLE INDEX