

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

(Issued October 1987)

CROSSGRAIN EXPEDITION

LEG 7

Hilo, Hawaii (30 June 1987)
to
San Diego, California (5 August 1987)

R/V T. Washington

Co-Chief Scientists - D. Hammond & W. Berelson
(University of Southern California)

Resident Marine Tech - Gene Pillard

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

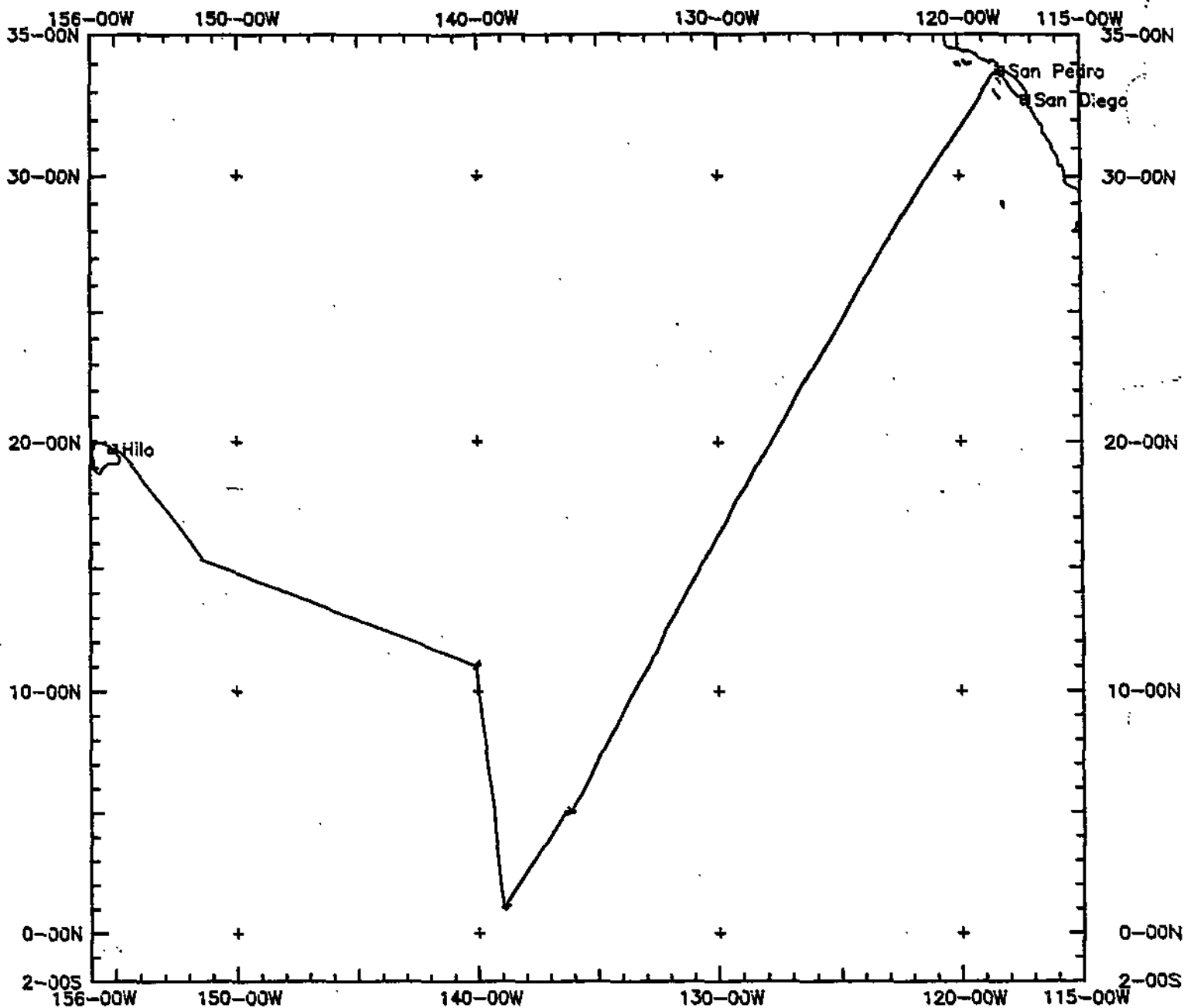
Contents:

-
- 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



CROSSGRAIN LEG 7

Track at .1632in/deg (CRGN07WT)

CO-CHIEF SCIENTISTS: D. Hammond & W. Berelson
(Univ. of Southern California)

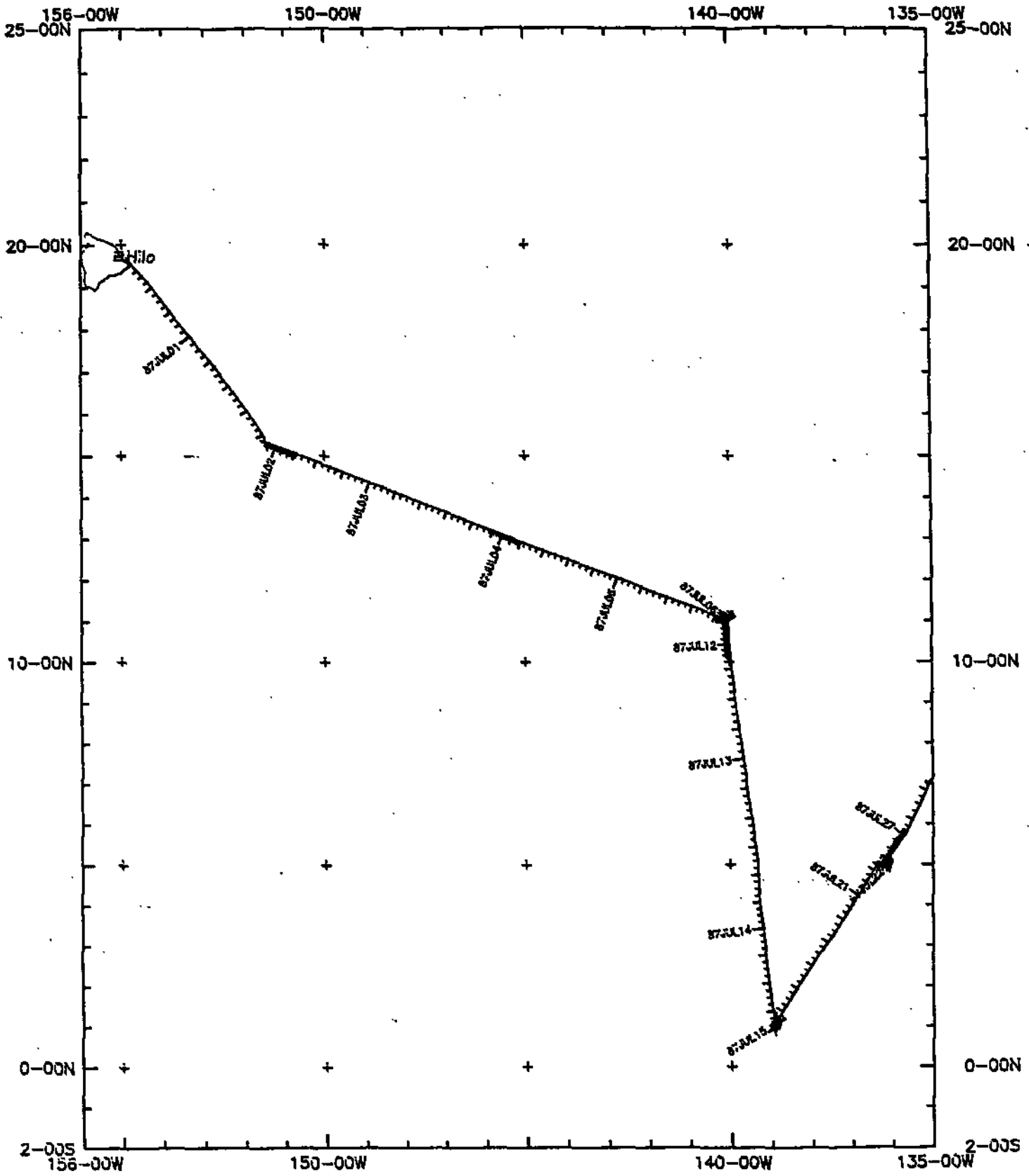
PORTS: Hilo, Hawaii - San Diego, California

DATES: 30 June - 5 August 1987

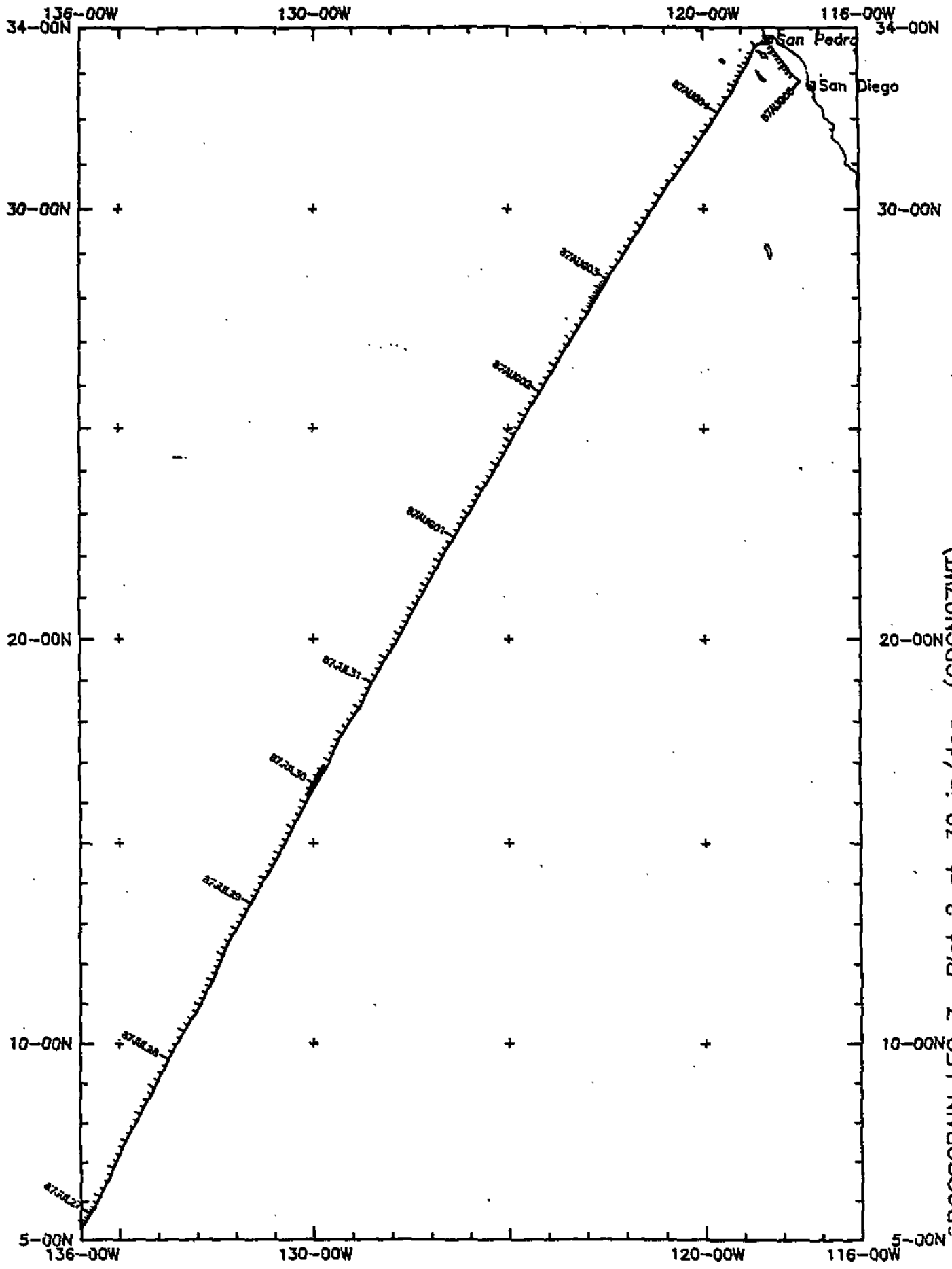
SHIP: R/V T. Washington

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

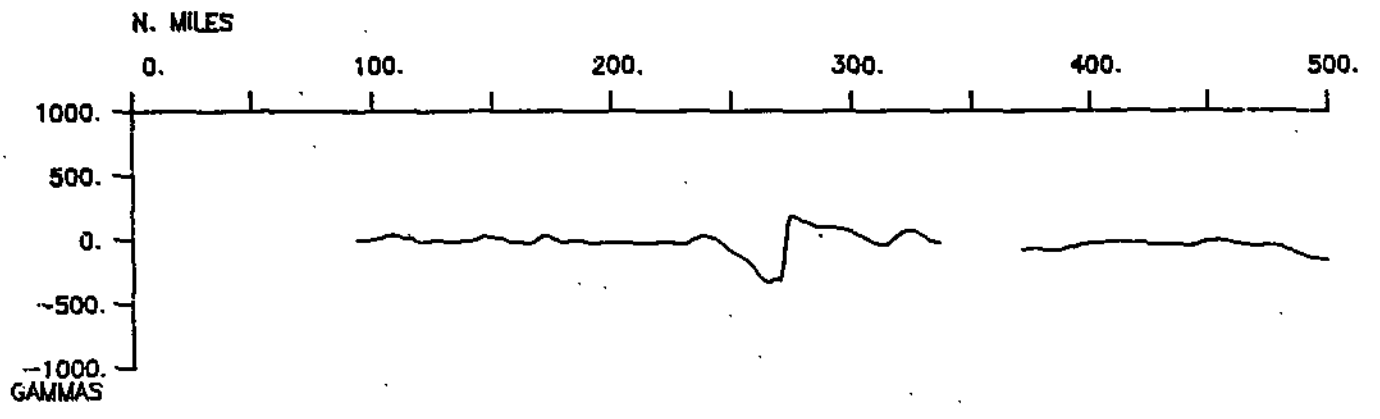
- 1) Cruise - 5249 miles
- 2) Bathymetry - 3729 miles
- 3) Magnetics - 3744 miles
- 4) Seismic Reflection - none collected
- 5) Gravity - none collected
- 6) SeaBeam - none collected



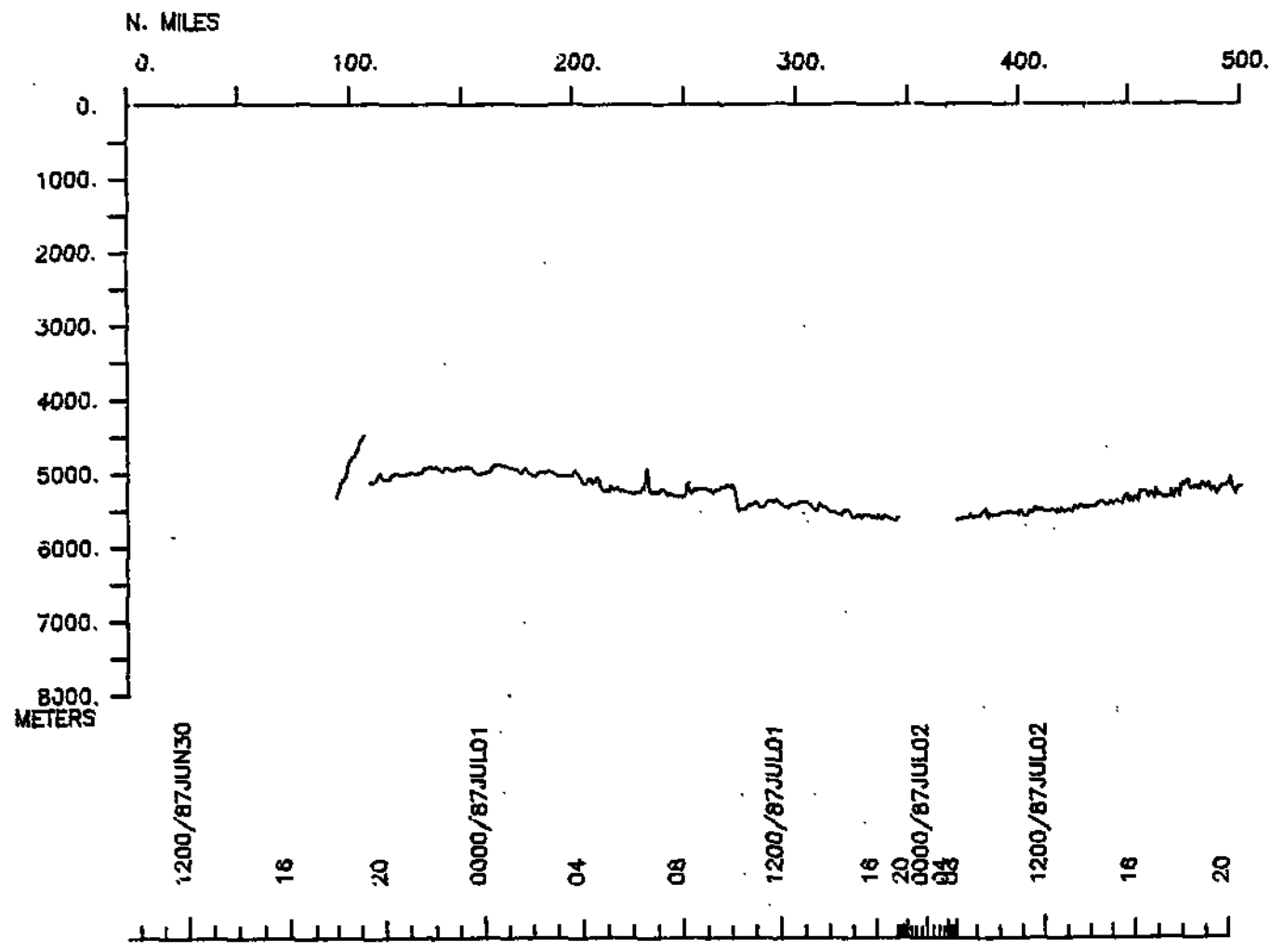
CROSSGRAIN LEG 7 Plot 1 at .30 in/deg (CRGN07WT)



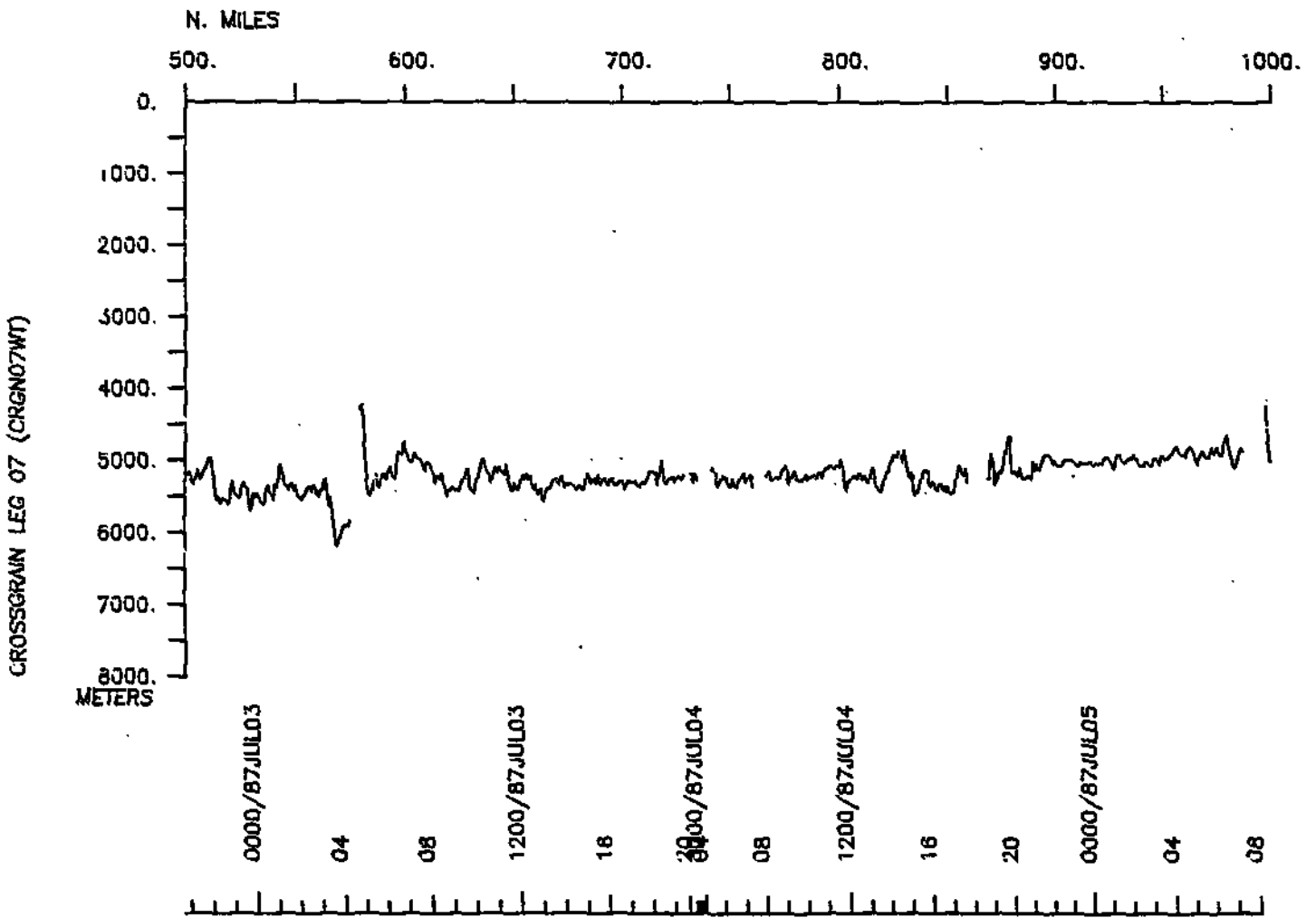
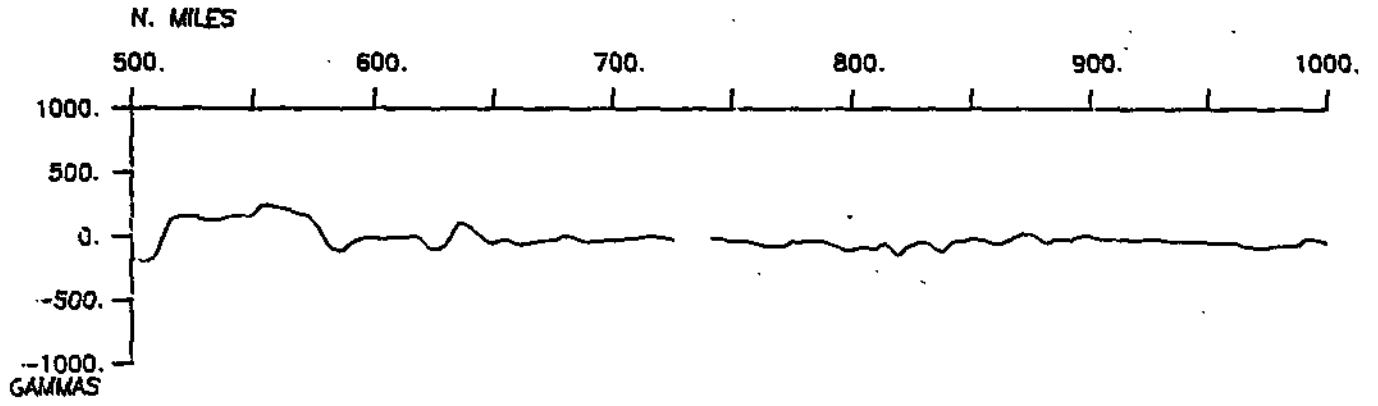
CROSSGRAIN LEG 7 Plot 2 at .30 in/deg (CRGN07WT)

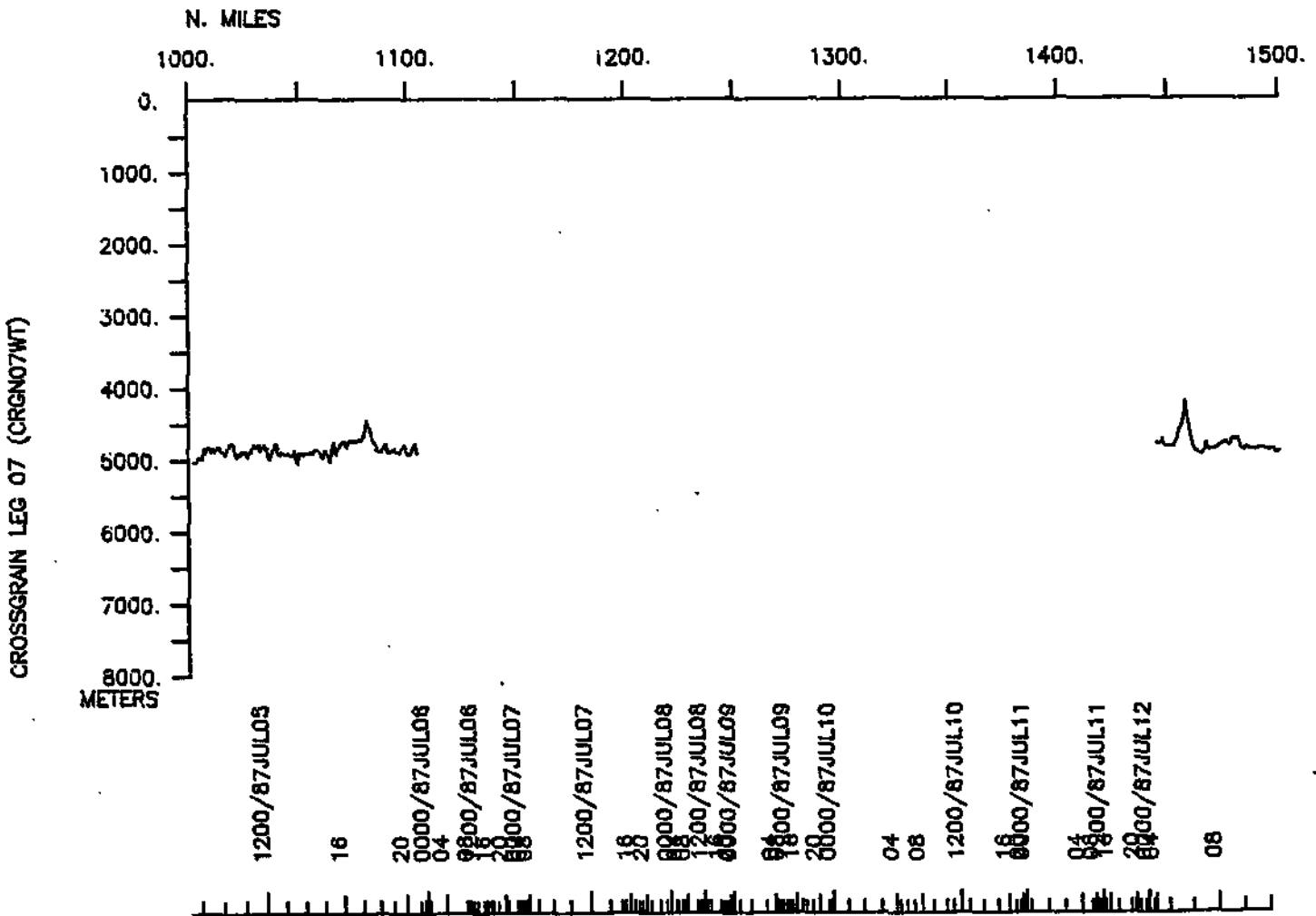
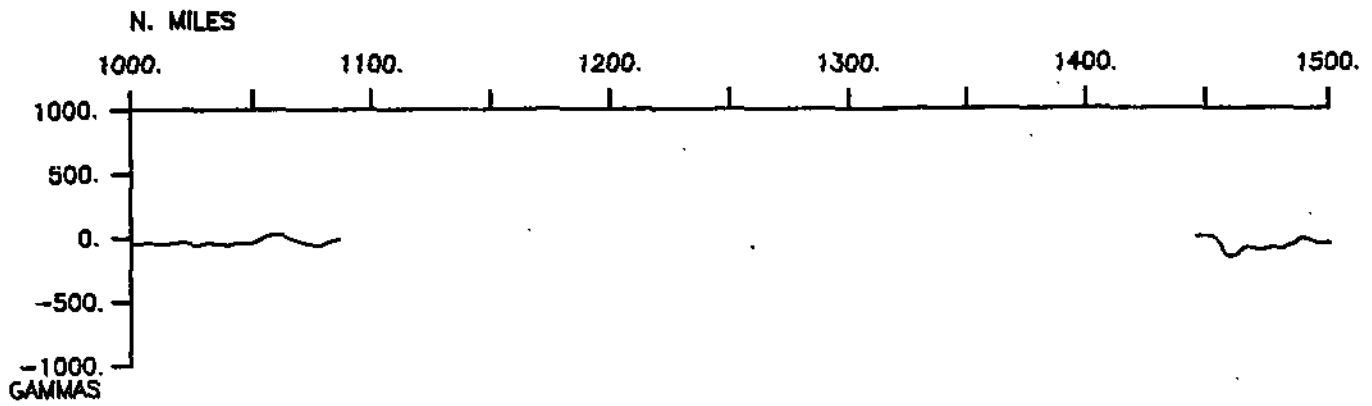


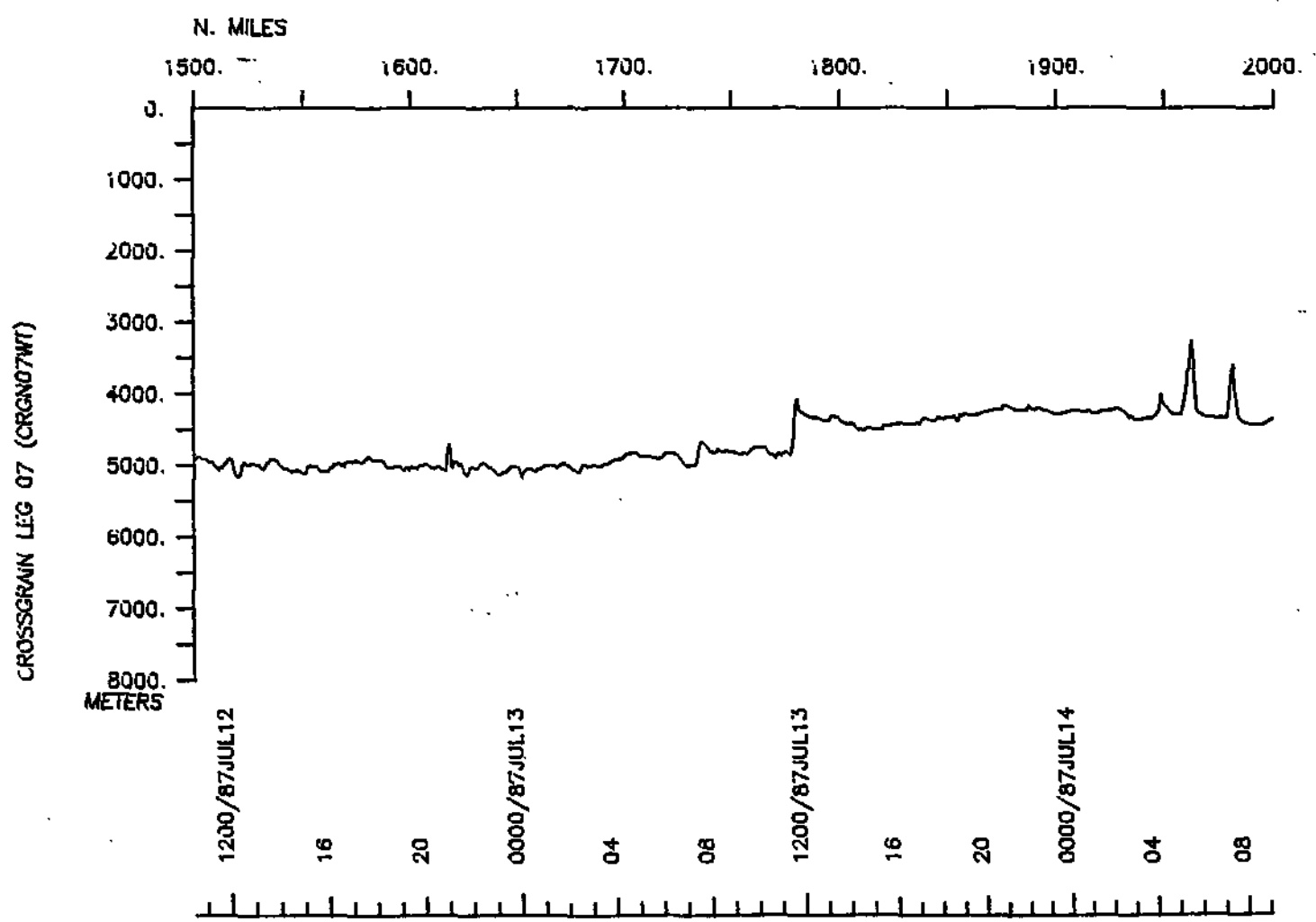
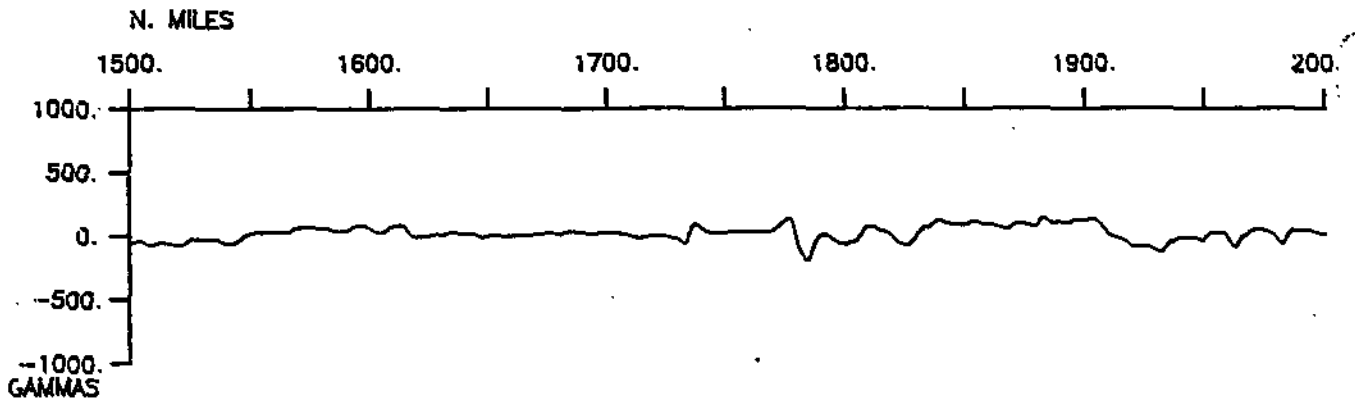
CROSSGRAIN LEG 07 (CRGNO7WT)

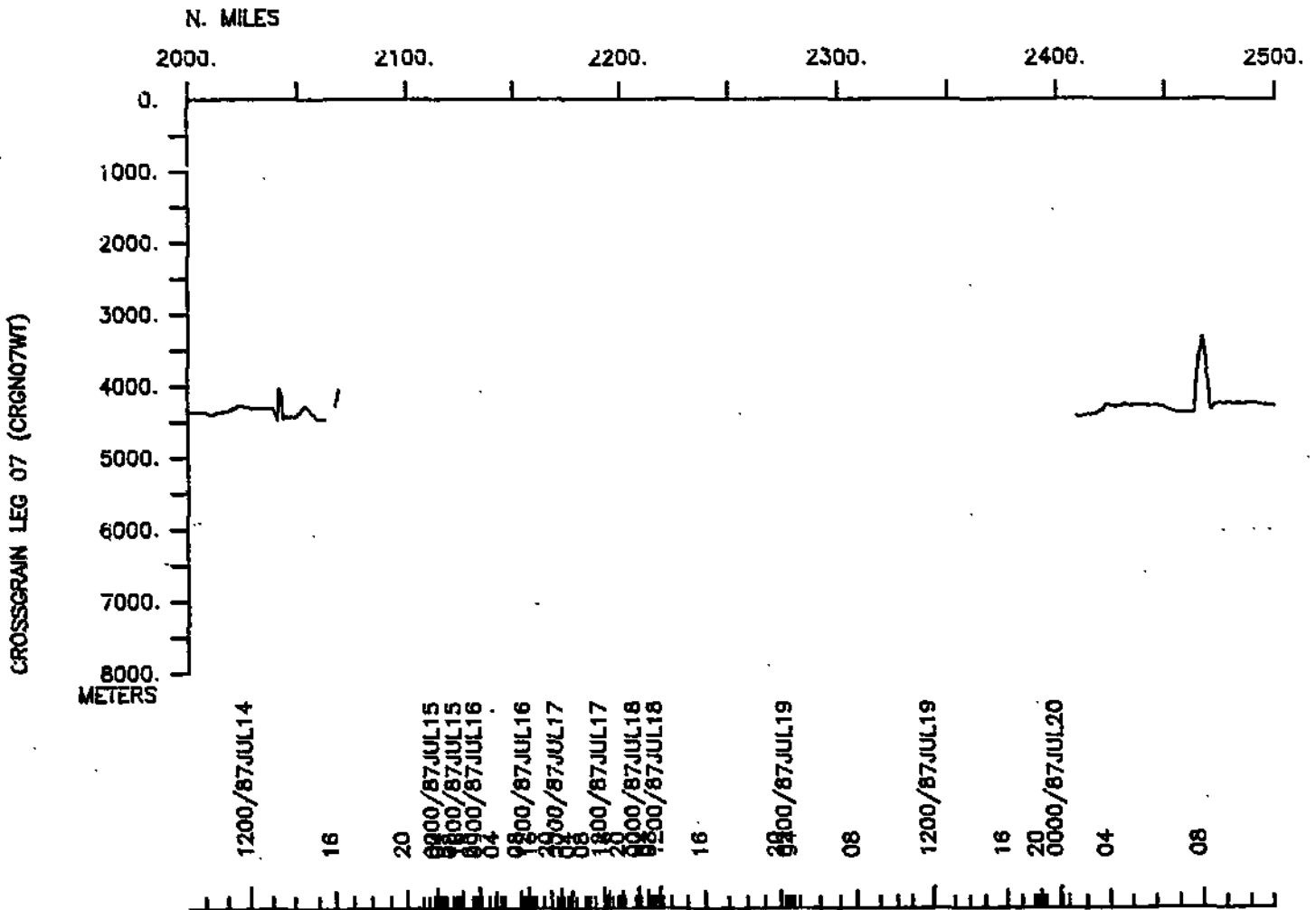
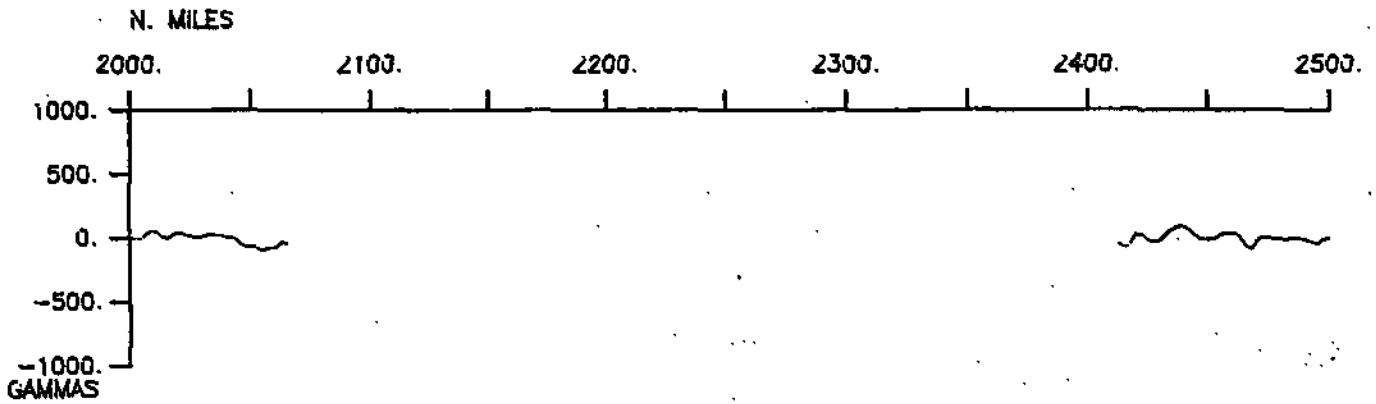


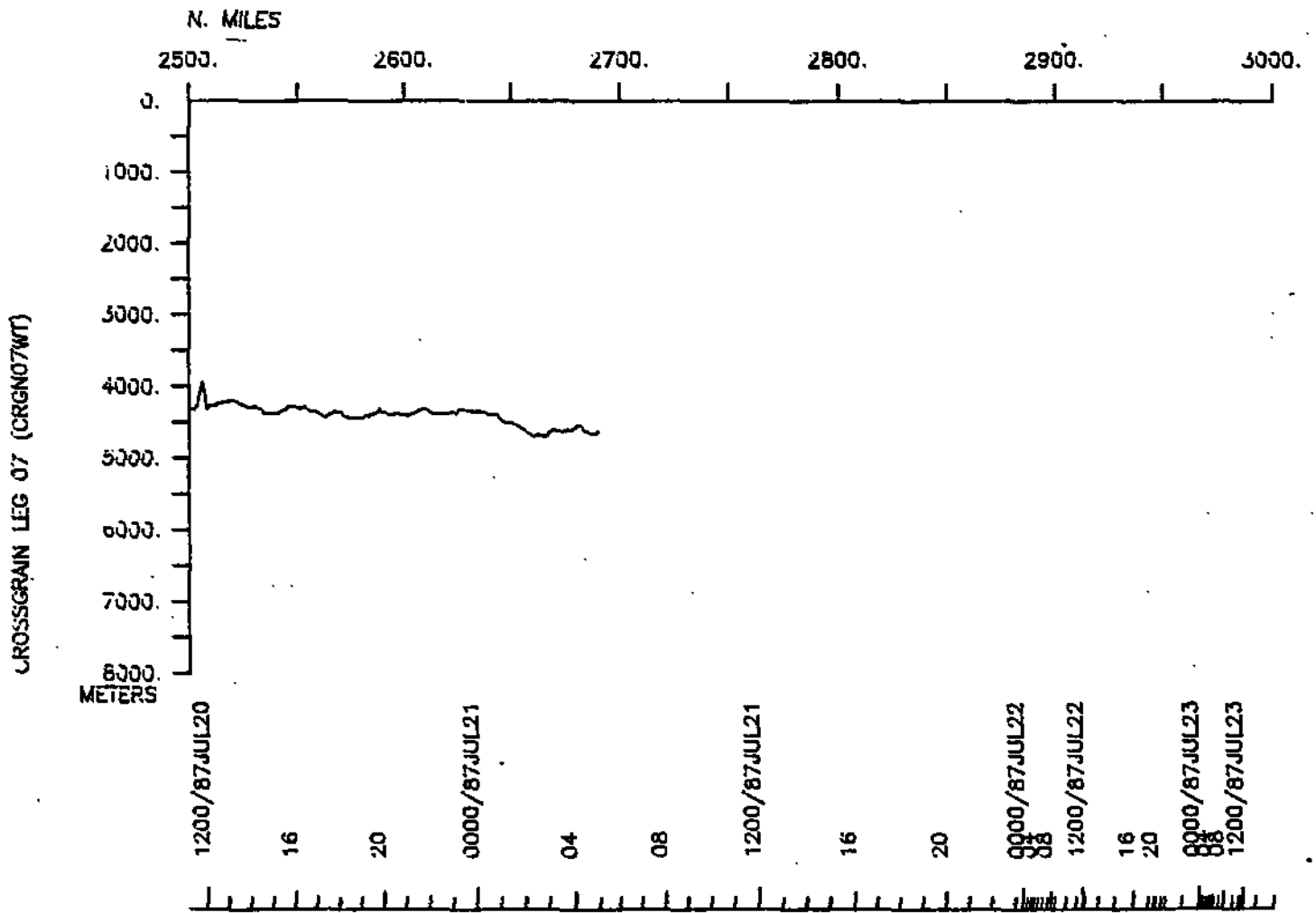
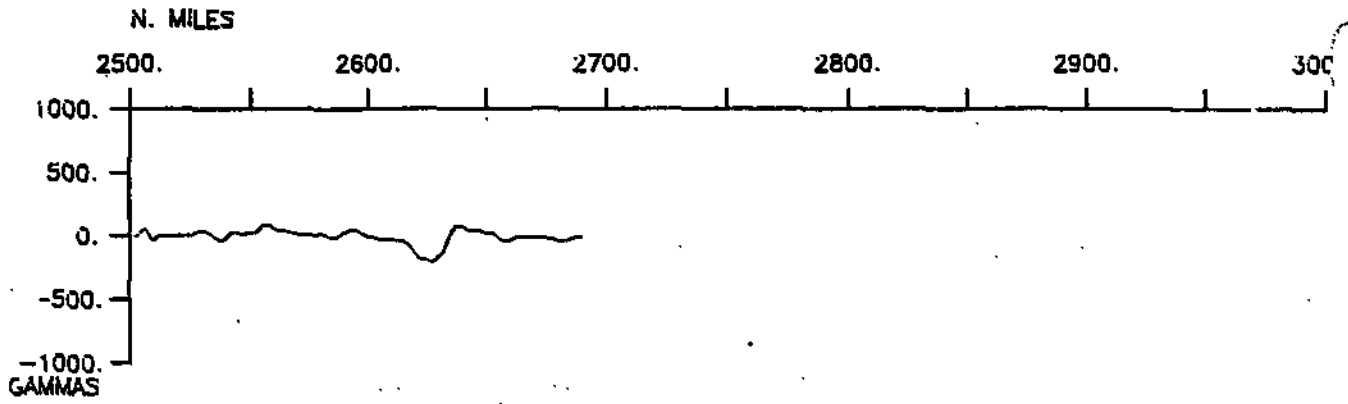
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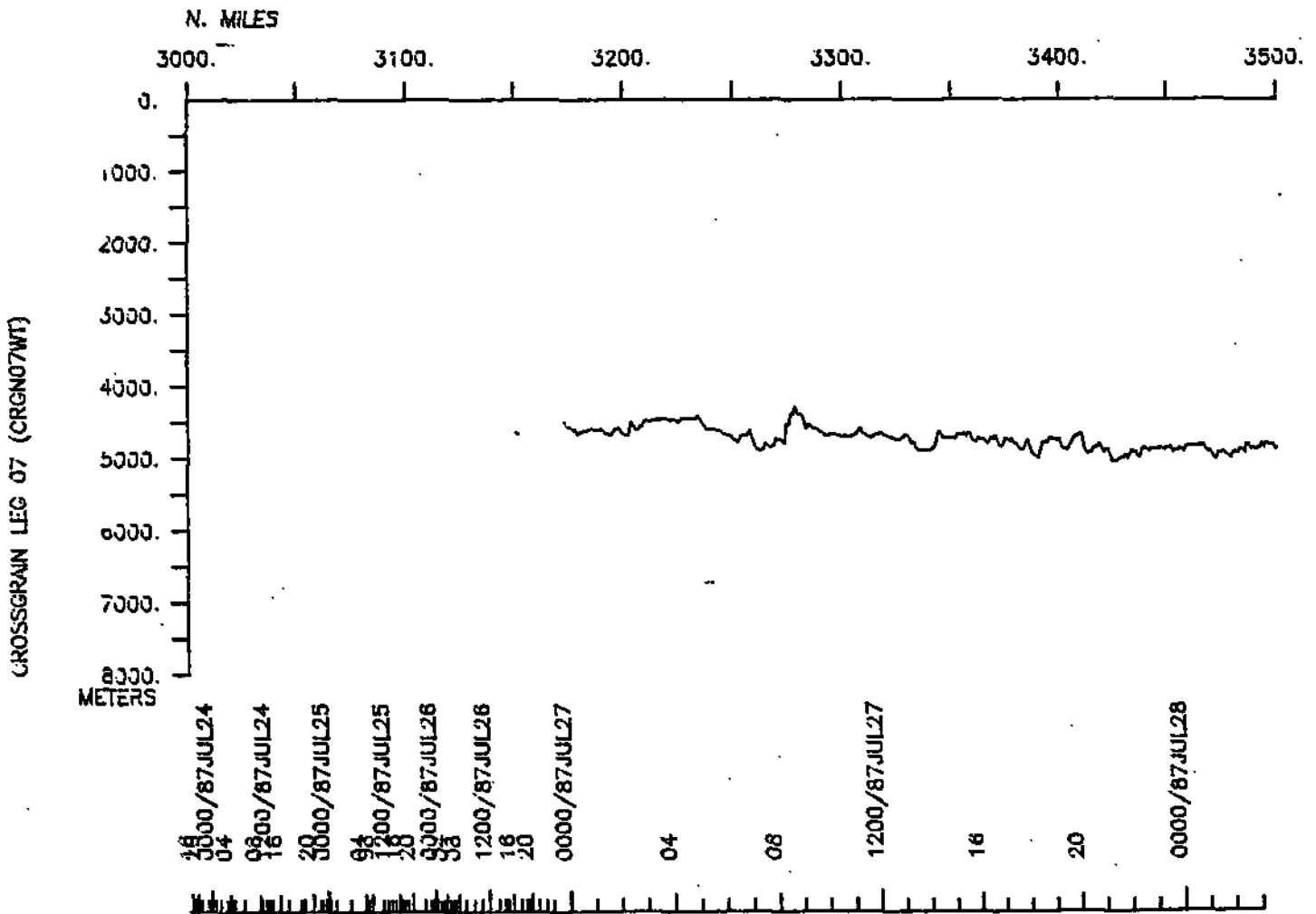
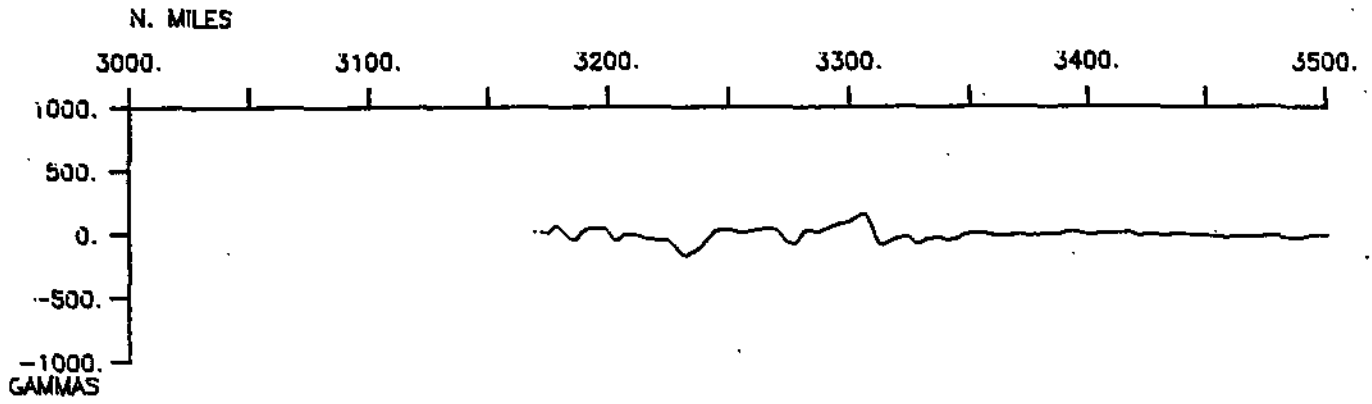


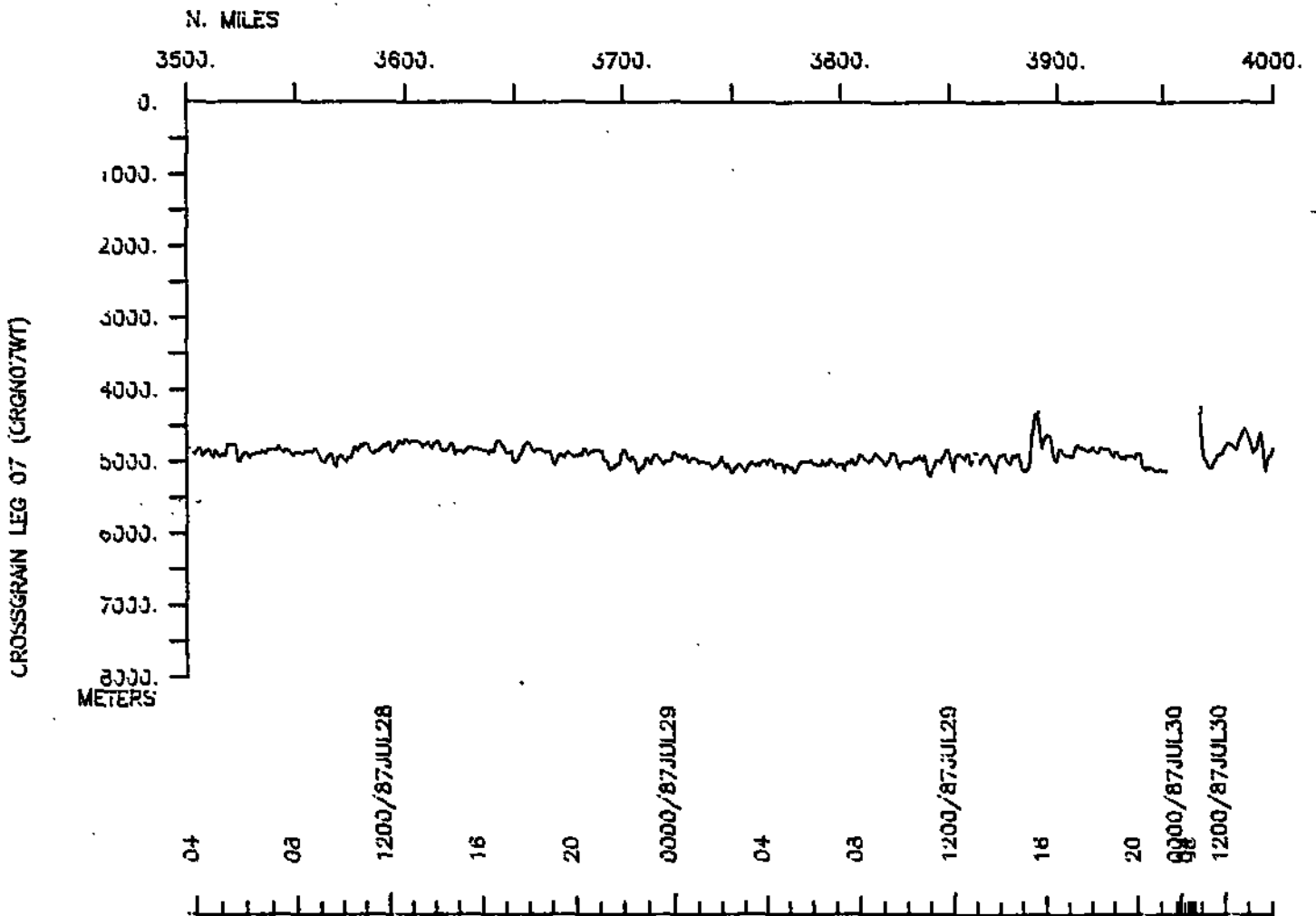
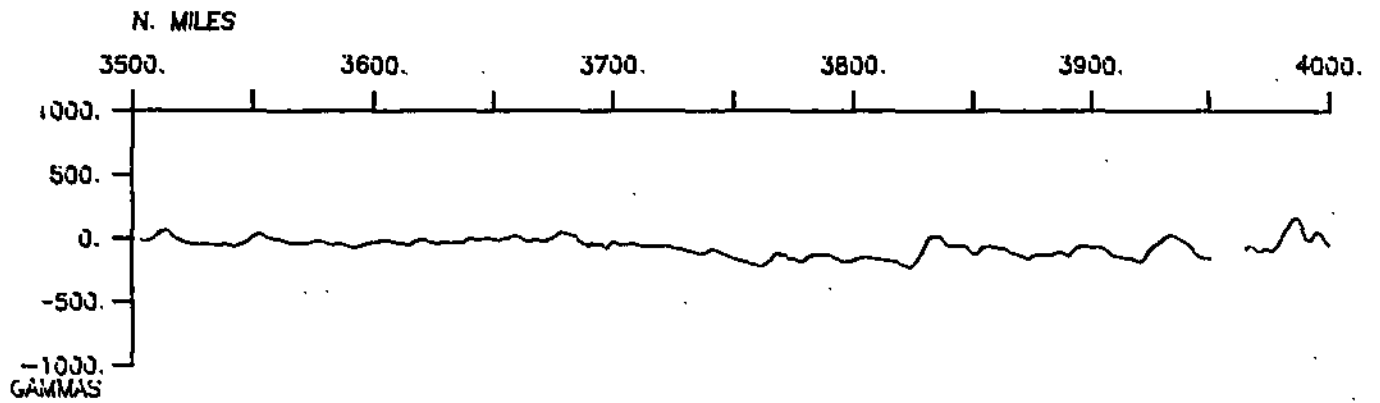


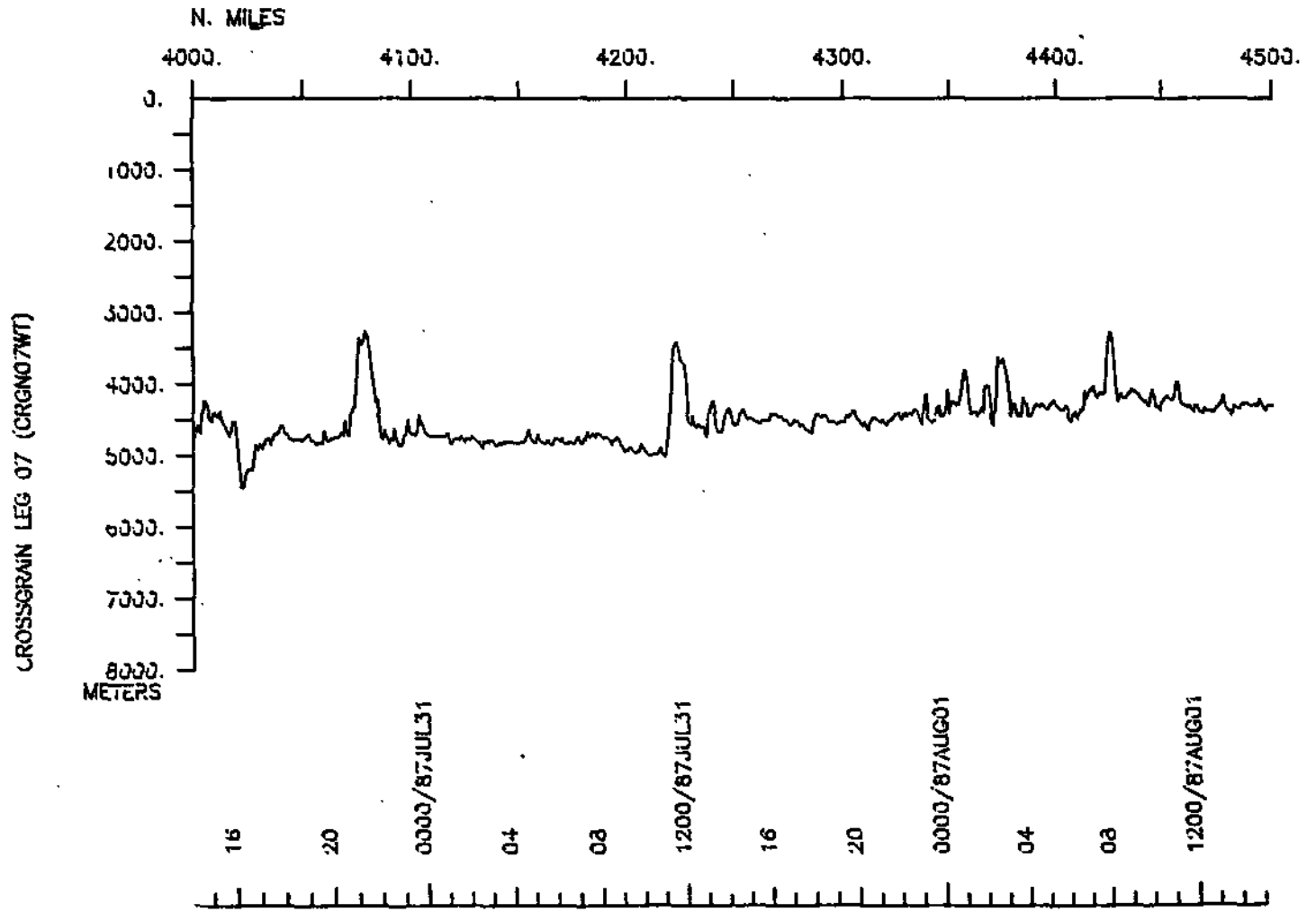
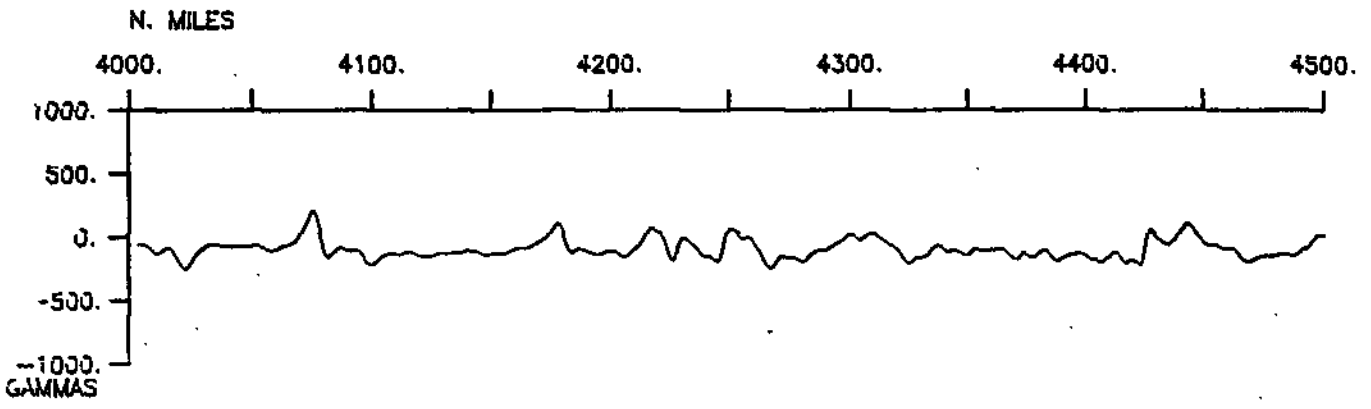


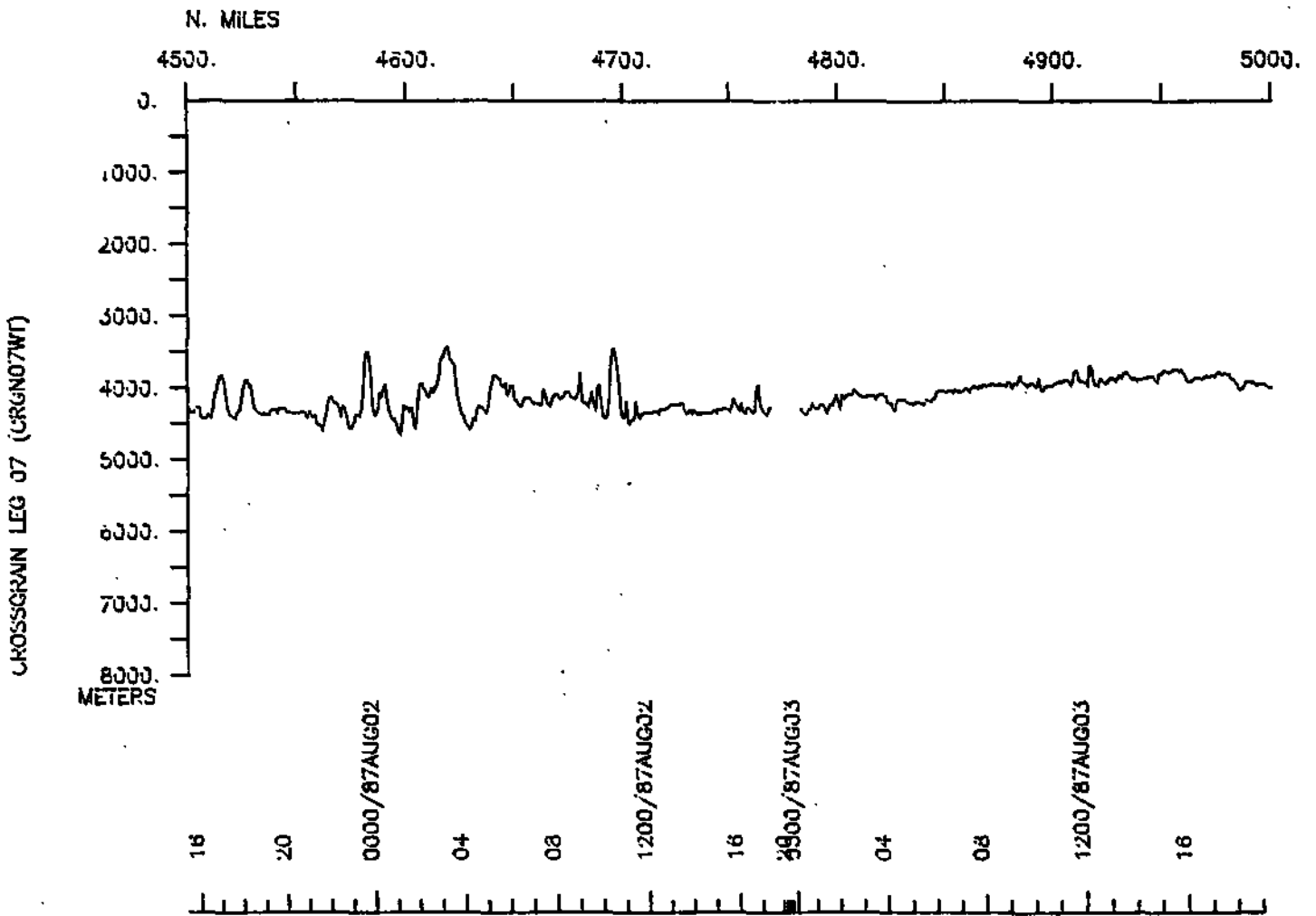
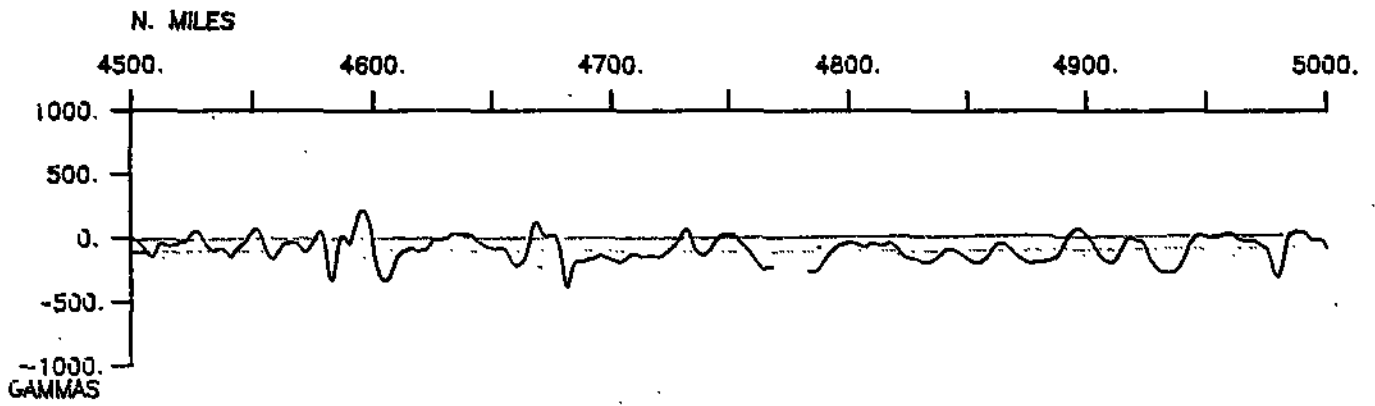


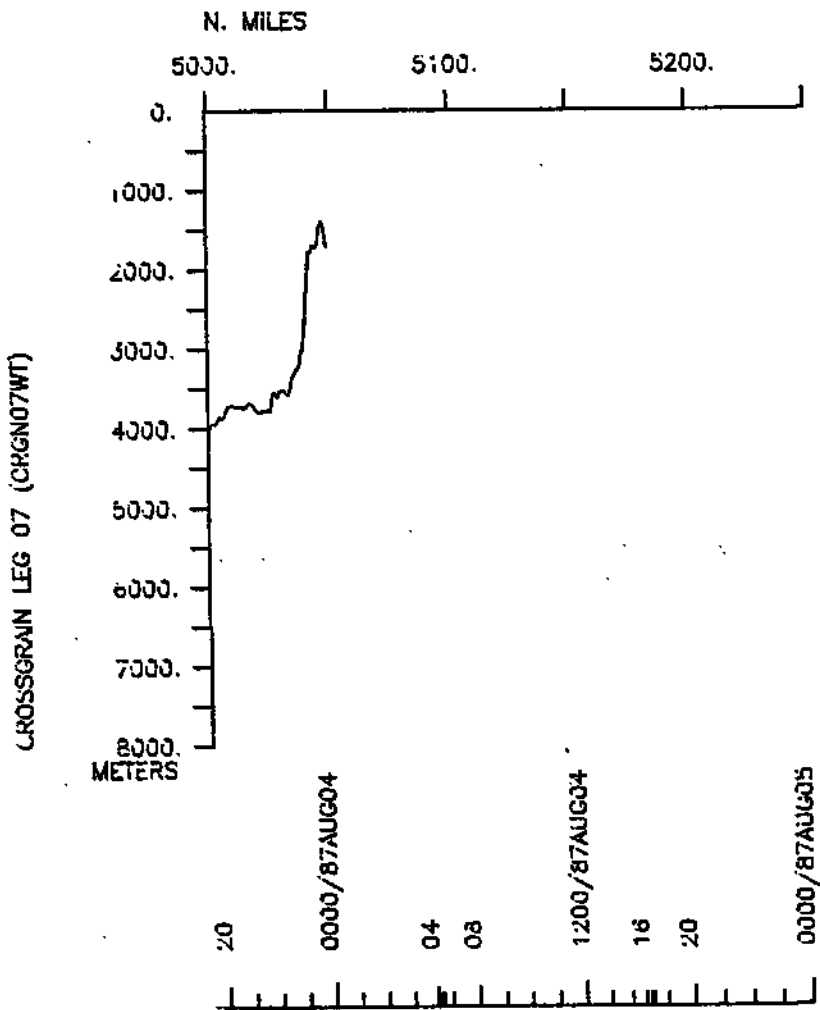
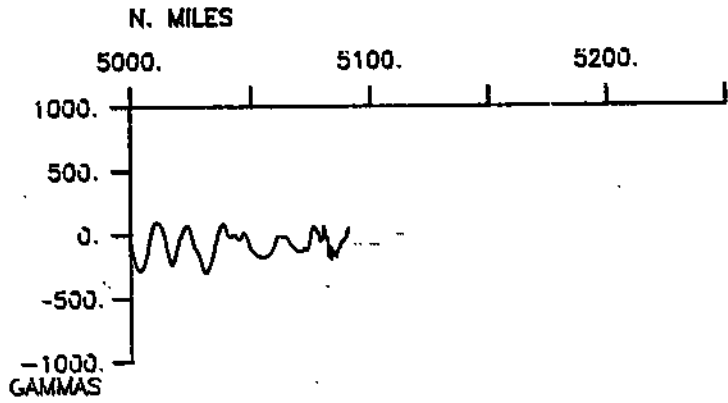












S.I.O. SAMPLE INDEX

(Issued October 1987)

CROSSGRAIN EXPEDITION

Leg 7

Hilo, Hawaii (30 June 1987)
to
San-Diego, California (5 August 1987)

R/V Washington

Co-Chief Scientists - D. Hammond & W. Berelson
(University of Southern California)

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

0900	300687	LGPT B HILO, HAWAII	19-44 N 155-04 W	fCRGNO7WT
0200	050887	LGPT E SAN DIEGO, CA.	32-43 N 117-11 W	fCRGNO7WT
1500	040887	LGSS B SAN PEDRO, CA.	33-44 N 118-16 W	fCRGNO7WT
1800	040887	LGSS E SAN PEDRO, CA.	33-44 N 118-16 W	fCRGNO7WT

PERSONNEL

	NAME	***TITLE***	***AFFILIATION***	**CRID**
PECS USC	HAMMOND, D.E.	CHIEF SCIENTIST	UNIV. OF SO. CALIF.	CRGNO7WT
PECS USC	BERELSON, W.M.	CHIEF SCIENTIST	UNIV. OF SO. CALIF.	CRGNO7WT
PESP USC	BAUSCH, D.	TECHNICIAN	UNIV. OF SO. CALIF.	CRGNO7WT
PEVL SIX	CARR, C.	VOLUNTEER	SCRIPPS INSTITUTION	CRGNO7WT
PEST USC	CHEN, M.S.	GRAD STUDENT	UNIV. OF SO. CALIF.	CRGNO7WT
PESP USC	CHIN, C.S.	TECHNICIAN	UNIV. OF SO. CALIF.	CRGNO7WT
PESP USC	GIBLIN, M.F.	TECHNICIAN	UNIV. OF SO. CALIF.	CRGNO7WT
PESP USC	O'NEILL, D.J.	TECHNICIAN	UNIV. OF SO. CALIF.	CRGNO7WT
PECT STS	MOE, R.L.	COMPUTER TECH	SCRIPPS INSTITUTION	CRGNO7WT
PERT STS	PILLARD, E.G.	RESIDENT TECH	SCRIPPS INSTITUTION	CRGNO7WT
PESP UCS	STOUT, P.	POST DOC	UNIV. OF SO. CALIF.	CRGNO7WT
PEST USC	XU, X.M.	GRAD STUDENT	UNIV. OF SO. CALIF.	CRGNO7WT
PSP USC	ZUKIN, J.G.	TECHNICIAN	UNIV. OF SO. CALIF.	CRGNO7WT

NOTES

#AN 'X' IN THE (B)EGIN/(E)ND COLUMN FOLLOWING THE SAMPLE CODE INDICATES NO
 #SAMPLE OR DATA RECOVERED. A 'C' INDICATES CONTINUATION OF DATA COLLECTION
 #FROM BEFORE THE BEGINNING OR AFTER THE END OF A PARTICULAR LEG. (MOORED
 #BOTTOM INSTRUMENTS, FOR EXAMPLE.) THE NUMBER APPEARING IN THE COLUMNS
 #BETWEEN THE SAMPLE IDENTIFIER AND THE DISPOSITION CODE, FOR MANY SAMPLE
 #ENTRIES, IS THE WATER DEPTH IN CORRECTED METERS. POSITIONS ARE IN TENTHS
 #OF MINUTES.

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

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

****LOG BOOKS****

1800	300687			LBUW	B UNDERWAY WATCH LOG	GDC	18-421N	154-016W	sCRGNO7WT
0350	040887			LBUW	E UNDERWAY WATCH LOG	GDC	32-416N	119-092W	sCRGNO7WT

**** ECHOSOUNDER RECORDS ****

1800	300687			DPRT	B EPC 12 KHZ R-01	GDC	18-421N	154-016W	sCRGNO7WT
2300	010787			DPRT	E EPC 12 KHZ R-01	GDC	15-201N	151-294W	sCRGNO7WT
2330	010787			DPRT	B EPC 12 KHZ R-02	GDC	15-208N	151-306W	sCRGNO7WT
0100	040787			DPRT	E EPC 12 KHZ R-02	GDC	13-075N	145-393W	sCRGNO7WT
0515	040787			DPRT	B EPC 12 KHZ R-03	GDC	13-067N	145-355W	sCRGNO7WT
0325	070787			DPRT	E EPC 12 KHZ R-03	GDC	11-008N	140-042W	sCRGNO7WT
0330	070787			DPRT	B EPC 12 KHZ R-04	GDC	11-008N	140-042W	sCRGNO7WT
0600	110787			DPRT	E EPC 12 KHZ R-04	GDC	10-599N	140-040W	sCRGNO7WT
0610	110787			DPRT	B EPC 12 KHZ R-05	GDC	10-599N	140-039W	sCRGNO7WT
1600	140787			DPRT	E EPC 12 KHZ R-05	GDC	1-045N	138-551W	sCRGNO7WT
1614	140787			DPRT	B EPC 12 KHZ R-06	GDC	1-046N	138-535W	sCRGNO7WT
2350	160787			DPRT	E EPC 12 KHZ R-06	GDC	1-033N	138-566W	sCRGNO7WT
0040	170787			DPRT	B EPC 12 KHZ R-07	GDC	1-039N	138-566W	sCRGNO7WT
0337	220787			DPRT	E EPC 12 KHZ R-07	GDC	5-032N	136-051W	sCRGNO7WT
0400	220787			DPRT	B EPC 12 KHZ R-08	GDC	5-033N	136-051W	sCRGNO7WT
1320	260787			DPRT	E EPC 12 KHZ R-08	GDC	5-032N	136-072W	sCRGNO7WT
1600	260787			DPRT	B EPC 12 KHZ R-09	GDC	5-041N	136-057W	sCRGNO7WT
2015	290787			DPRT	E EPC 12 KHZ R-09	GDC	16-403N	129-494W	sCRGNO7WT
2018	290787			DPRT	B EPC 12 KHZ R-10	GDC	16-407N	129-491W	sCRGNO7WT
0355	040887			DPRT	E EPC 12 KHZ R-10	GDC	32-421N	119-090W	sCRGNO7WT

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

1800	300687			MGRA	C MAGNETICS R-01	GDC	18-421N	154-016W	sCRGNO7WT
0440	050787			MGRA	E MAGNETICS R-01	GDC	11-461N	142-036W	sCRGNO7WT
0455	050787			MGRA	B MAGNETICS R-02	GDC	11-452N	142-013W	sCRGNO7WT
0340	040887			MGRA	E MAGNETICS R-02	GDC	32-408N	119-097W	sCRGNO7WT

#GMT #TIME #	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
*** EXPENDABLE BATHYTHERMOGRAPHS ***									
2015	300687			BTXP	XBT-01	NOA	18-226N	153-463W	sCRGN07WT
0658	010787			BTXP	XBT-02	NOA	16-490N	152-296W	sCRGN07WT
0244	020787			BTXP	XBT-03	NOA	15-206N	151-304W	sCRGN07WT
2328	020787			BTXP	XBT-04	NOA	14-233N	148-589W	sCRGN07WT
2013	030787			BTXP	XBT-05	NOA	13-092N	145-428W	sCRGN07WT
1940	040787			BTXP	XBT-06	NOA	12-168N	143-239W	sCRGN07WT
1816	050787			BTXP	XBT-07	NOA	11-022N	140-042W	sCRGN07WT
0340	060787			BTXP	XBT-08	NOA	10-595N	140-079W	sCRGN07WT
2108	060787			BTXP	XBT-09	NOA	11-028N	140-047W	sCRGN07WT
1133	070787			BTXP	XBT-10	NOA	11-074N	140-003W	sCRGN07WT
1200	080787			BTXP	XBT-11	NOA	10-596N	140-057W	sCRGN07WT
0108	090787			BTXP	XBT-12	NOA	10-586N	140-020W	sCRGN07WT
1859	090787			BTXP	XBT-13	NOA	10-593N	140-059W	sCRGN07WT
2259	090787			BTXP	XBT-14	NOA	10-594N	140-038W	sCRGN07WT
0237	110787			BTXP	XBT-15	NOA	11-002N	140-063W	sCRGN07WT
109	110787			BTXP	XBT-16	NOA	11-002N	140-044W	sCRGN07WT
305	120787			BTXP	XBT-17	NOA	9-378N	139-559W	sCRGN07WT
936	120787			BTXP	XBT-18	NOA	8-251N	139-471W	sCRGN07WT
0117	130787			BTXP	XBT-19	NOA	7-221N	139-393W	sCRGN07WT
0615	130787			BTXP	XBT-20	NOA	6-278N	139-324W	sCRGN07WT
1238	130787			BTXP	XBT-21	NOA	5-187N	139-219W	sCRGN07WT
2027	130787			BTXP	XBT-22	NOA	3-586N	139-176W	sCRGN07WT
0204	140787			BTXP	XBT-23	NOA	3-040N	139-108W	sCRGN07WT
0711	140787			BTXP	XBT-24	NOA	2-124N	139-053W	sCRGN07WT
1236	140787			BTXP	XBT-25	NOA	1-169N	138-593W	sCRGN07WT
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1239	160787			BTXP	XBT-30	NOA	1-038N	138-562W	sCRGN07WT
0300	170787			BTXP	XBT-31	NOA	1-061N	138-562W	sCRGN07WT
0821	170787			BTXP	XBT-32	NOA	1-033N	138-572W	sCRGN07WT
1237	170787			BTXP	XBT-33	NOA	1-015N	138-567W	sCRGN07WT
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2148	180787			BTXP	XBT-35	NOA	1-029N	138-551W	sCRGN07WT
0549	190787			BTXP	XBT-36	NOA	1-033N	138-546W	sCRGN07WT
1239	190787			BTXP	XBT-37	NOA	1-058N	139-027W	sCRGN07WT
0107	200787			BTXP	XBT-38	NOA	1-019N	138-580W	sCRGN07WT
0730	200787			BTXP	XBT-39	NOA	1-515N	138-277W	sCRGN07WT
1243	200787			BTXP	XBT-40	NOA	2-359N	137-575W	sCRGN07WT
1933	200787			BTXP	XBT-41	NOA	3-332N	137-168W	sCRGN07WT
257	210787			BTXP	XBT-42	NOA	4-419N	136-337W	sCRGN07WT
1232	210787			BTXP	XBT-43	NOA	4-593N	136-076W	sCRGN07WT
1234	220787			BTXP	XBT-44	NOA	5-043N	136-067W	sCRGN07WT
0117	230787			BTXP	XBT-45	NOA	5-028N	136-084W	sCRGN07WT

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0113	240787			BTXP	XBT-47	NOA	5-046N	136-051W	sCRGNO7WT
0533	240787			BTXP	XBT-48	NOA	5-049N	135-573W	sCRGNO7WT
1233	240787			BTXP	XBT-49	NOA	5-033N	136-073W	sCRGNO7WT
0257	250787			BTXP	XBT-50	NOA	5-020N	136-053W	sCRGNO7WT
1242	250787			BTXP	XBT-51	NOA	5-026N	136-108W	sCRGNO7WT
1114	260787			BTXP	XBT-52	NOA	5-047N	136-085W	sCRGNO7WT
1236	260787			BTXP	XBT-53	NOA	5-020N	136-062W	sCRGNO7WT
0059	270787			BTXP	XBT-54	NOA	5-348N	135-480W	sCRGNO7WT
0800	270787			BTXP	XBT-55	NOA	6-498N	135-097W	sCRGNO7WT
1236	270787			BTXP	XBT-56	NOA	7-376N	134-467W	sCRGNO7WT
1914	270787			BTXP	XBT-57	NOA	8-452N	134-091W	sCRGNO7WT
0109	280787			BTXP	XBT-58	NOA	9-479N	133-372W	sCRGNO7WT
0704	280787			BTXP	XBT-59	NOA	10-484N	133-020W	sCRGNO7WT
1245	280787			BTXP	XBT-60	NOA	11-413N	132-333W	sCRGNO7WT
1929	280787			BTXP	XBT-61	NOA	12-467N	132-025W	sCRGNO7WT
0110	290787			BTXP	XBT-62	NOA	13-419N	131-307W	sCRGNO7WT
0738	290787			BTXP	XBT-63	NOA	14-406N	130-544W	sCRGNO7WT
1235	290787			BTXP	XBT-64	NOA	15-282N	130-300W	sCRGNO7WT
1904	290787			BTXP	XBT-65	NOA	16-290N	129-562W	sCRGNO7WT
0832	300787			BTXP	XBT-66	NOA	16-502N	129-407W	sCRGNO7WT
1138	300787			BTXP	XBT-67	NOA	16-589N	129-361W	sCRGNO7WT
1946	300787			BTXP	XBT-68	NOA	18-167N	128-515W	sCRGNO7WT
0609	310787			BTXP	XBT-69	NOA	19-503N	127-564W	sCRGNO7WT
1133	310787			BTXP	XBT-70	NOA	20-373N	127-281W	sCRGNO7WT
1912	310787			BTXP	XBT-71	NOA	21-443N	126-509W	sCRGNO7WT
0038	010887			BTXP	XBT-72	NOA	22-312N	126-203W	sCRGNO7WT
0621	010887			BTXP	XBT-73	NOA	23-194N	125-498W	sCRGNO7WT
1134	010887			BTXP	XBT-74	NOA	24-034N	125-198W	sCRGNO7WT
0025	020887			BTXP	XBT-75	NOA	25-548N	124-089W	sCRGNO7WT
1134	020887			BTXP	XBT-76	NOA	27-352N	123-018W	sCRGNO7WT
0038	030887			BTXP	XBT-77	NOA	28-276N	122-261W	sCRGNO7WT
1034	030887			BTXP	XBT-78	NOA	30-019N	121-178W	sCRGNO7WT
2359	030887			BTXP	XBT-79	NOA	32-076N	119-375W	sCRGNO7WT

#GMT #TIME #	DDMMYY DATE	LOC TIME Z	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
**** BOX CORES ****									
2140	030787			COBX B	SOUTAR BOXCORE #168	USC	13-085N	145-401W	sCRGNO7WT
0452	040787			COBX E	TEST DEPLOYMENT	USC	13-072N	145-366W	sCRGNO7WT
0125	080787			COBX B	SOUTAR BOXCORE #169	USC	10-589N	140-023W	sCRGNO7WT
0610	080787			COBX E	CORE RECOVERED 4830M	USC	11-022N	140-021W	sCRGNO7WT
0835	080787			COBX B	SOUTAR BOXCORE #170	USC	10-587N	140-035W	sCRGNO7WT
1400	080787			COBX E	NO SAMPLE 4910M	USC	10-586N	140-084W	sCRGNO7WT
1502	080787			COBX B	SOUTAR BOXCORE #171	USC	11-009N	140-067W	sCRGNO7WT
2309	080787			COBX E	CORE RECOVERED 4913M	USC	11-008N	140-043W	sCRGNO7WT
1812	100787			COBX B	SOUTAR BOXCORE #172	USC	11-002N	140-044W	sCRGNO7WT
2244	100787			COBX X	EQUIP FAILURE 4915M	USC	11-013N	140-040W	sCRGNO7WT
30	110787			COBX B	SOUTAR BOXCORE #173	USC	11-000N	140-037W	sCRGNO7WT
48	110787			COBX X	EQUIP FAILURE 4875M	USC	11-013N	140-050W	sCRGNO7WT
0440	160787			COBX B	SOUTAR BOXCORE #174	USC	0-597N	138-557W	sCRGNO7WT
0626	160787			COBX X	ABORTED	USC	0-582N	138-568W	sCRGNO7WT
0840	160787			COBX B	SOUTAR BOXCORE #175	USC	1-042N	138-541W	sCRGNO7WT
1516	160787			COBX E	NO SAMPLE 4525M	USC	1-041N	138-579W	sCRGNO7WT
1948	160787			COBX B	SOUTAR BOXCORE #176	USC	1-024N	138-546W	sCRGNO7WT
2127	160787			COBX X	ABORTED	USC	1-025N	138-553W	sCRGNO7WT
2210	160787			COBX B	SOUTAR BOXCORE #177	USC	1-038N	138-567W	sCRGNO7WT
0240	170787			COBX E	CORE RECOVERED 4445M	USC	1-058N	138-563W	sCRGNO7WT
2200	170787			COBX B	SOUTAR BOXCORE #178	USC	1-036N	138-574W	sCRGNO7WT
0301	180787			COBX E	NO SAMPLE 4411M	USC	1-029N	138-585W	sCRGNO7WT
0353	180787			COBX B	SOUTAR BOXCORE #179	USC	1-031N	138-557W	sCRGNO7WT
0903	180787			COBX E	CORE RECOVERED 4440M	USC	1-016N	138-559W	sCRGNO7WT

#GMT #TIME #	DDMMYY DATE	LOC TIME Z	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1919	220787			HCNI	TSONIC	2014M	5-042N	136-054W	sCRGN07WT
0312	230787			HCNI	TSONIC	4655M	5-024N	136-058W	sCRGN07WT
0530	240787			HCNI	TSONIC,RA	SURFACE	5-049N	135-574W	sCRGN07WT
1848	240787			HCNI	X	ABORTED	5-043N	136-044W	sCRGN07WT
2314	240787			HCNI	T RA	4629M	5-039N	136-076W	sCRGN07WT
0652	260787			HCNI	T	SURFACE	5-037N	136-002W	sCRGN07WT
1905	260787			HCNI	TSO	SURFACE	5-085N	136-020W	sCRGN07WT
0615	300787			HCNI	TSONIC	4638M	16-498N	129-399W	sCRGN07WT
0943	300787			HCNI	TSONIC	SURFACE	16-503N	129-406W	sCRGN07WT

*** GEOCHEMICAL SAMPLES FREE VEHICLE ***

2300	050787			GCFV	B GEOCHEMICAL FV-02	USC	11-012N	140-043W	sCRGN07WT
1459	060787			GCFV	E SURFACE FLUX	USC	11-022N	140-056W	sCRGN07WT
0026	080787			GCFV	B GEOCHEMICAL FV-03	USC	11-000N	140-040W	sCRGN07WT
54	110787			GCFV	E SURFACE FLUX	USC	11-000N	140-040W	sCRGN07WT
2356	140787			GCFV	B GEOCHEMICAL FV-04	USC	1-034N	138-561W	sCRGN07WT
1804	190787			GCFV	E SURFACE FLUX	USC	1-037N	138-563W	sCRGN07WT
0029	220787			GCFV	B GEOCHEMICAL FV-05	USC	5-041N	136-068W	sCRGN07WT
1555	260787			GCFV	E SURFACE FLUX	USC	5-041N	136-057W	sCRGN07WT

*** AIR SAMPLES ***

0900	300687			ASCS	B ATMOS. PARTICULATES	USC	19-438N	155-032W	sCRGN07WT
2300	040887			ASCS	E BE-7 SAMPLE/2DAYS	USC	32-574N	117-391W	sCRGN07WT

*** SURFACE SAMPLES ***

0900	300687			SSXX	B SURFACE SAMPLE	USC	19-438N	155-032W	sCRGN07WT
2330	040887			SSXX	E TH, BE 1 SAMPLE/DAY	USC	32-530N	117-339W	sCRGN07WT

*** THERMOGRAPHS RECORDS ***

0900	300687			TGRC	B THERMOGRAPHS 1-12	GDC	19-438N	155-032W	sCRGN07WT
0500	050787			TGRC	B THERMOGRAPHS 1-12	GDC	11-450N	142-006W	sCRGN07WT

END SAMPLE INDEX