INFORMAL REPORT AND INDEX OF

NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA

(Issued October 1987)

CROSSGRAIN EXPEDITION

LEG 6

Honolulu, Hawaii (18 June 1987)
to
Hilo, Hawaii (26 June 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

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.

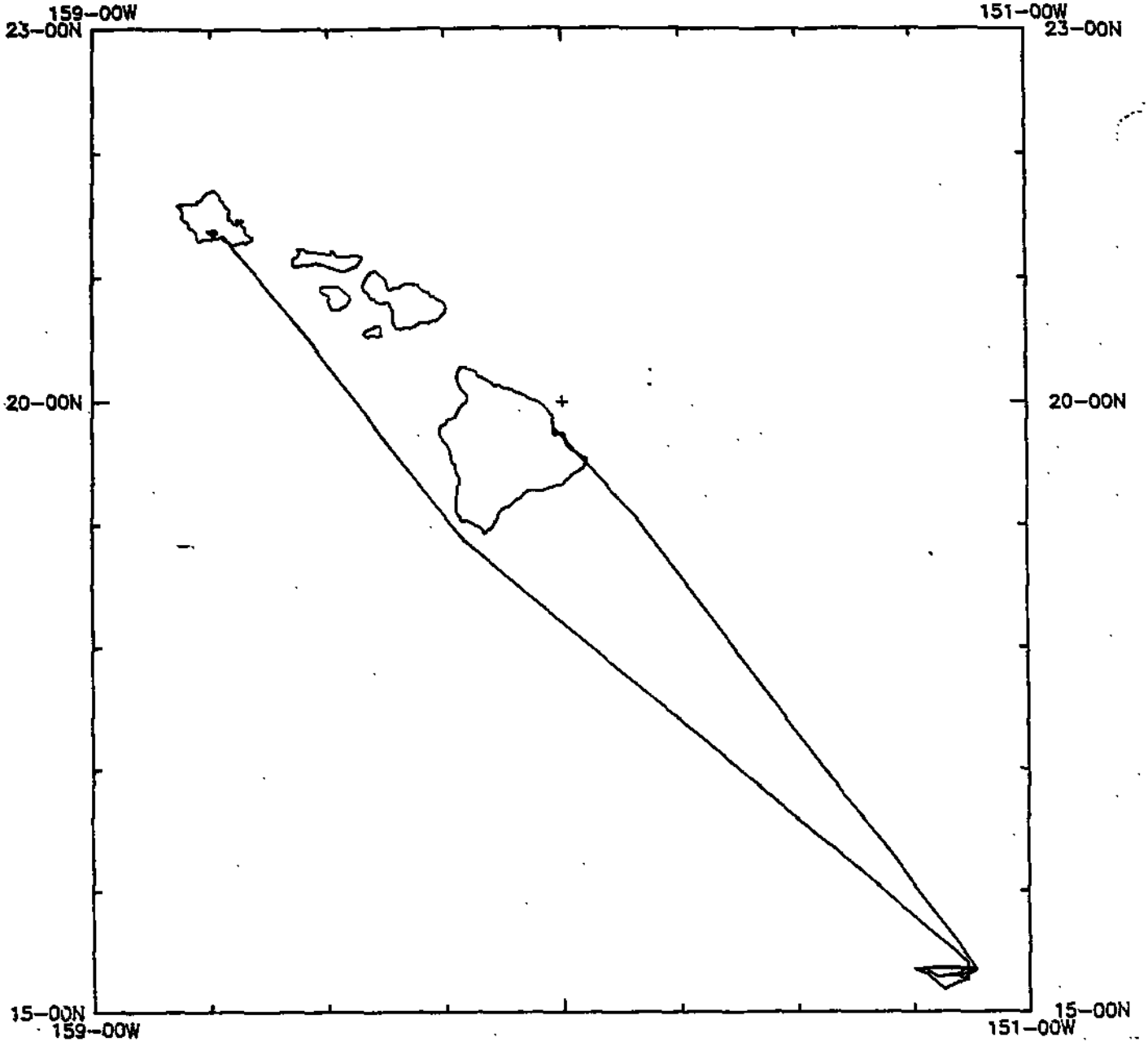
Sample Index - list of beginning and end times and positions of all underway records as well as all other samples and measurements (geology, biology, physical oceanography, etc.) collected on the cruise leg.

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&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

Revised September 1987

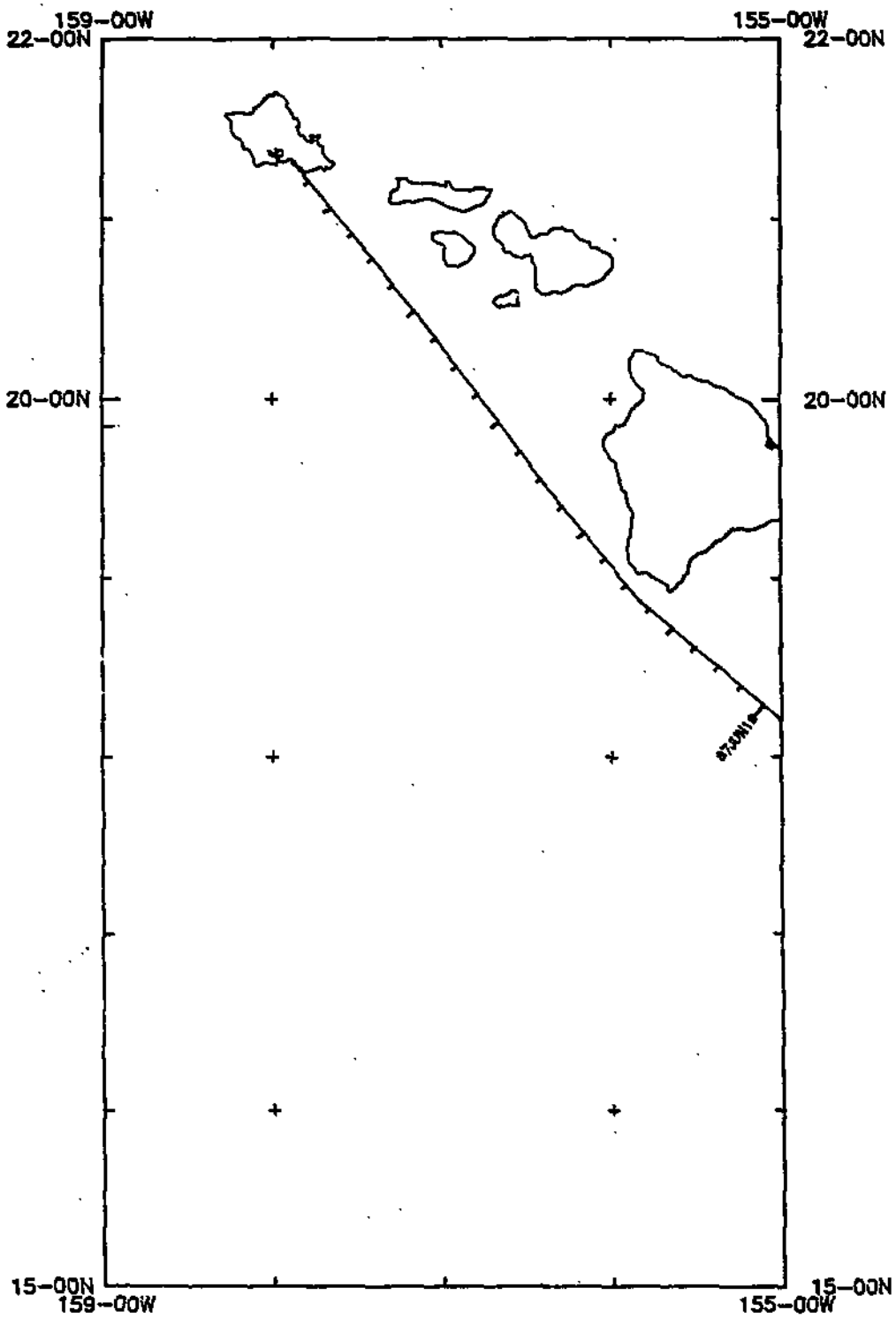


CROSSGRAIN LEG 6
Track at .75 in/deg (CRGN06WT)

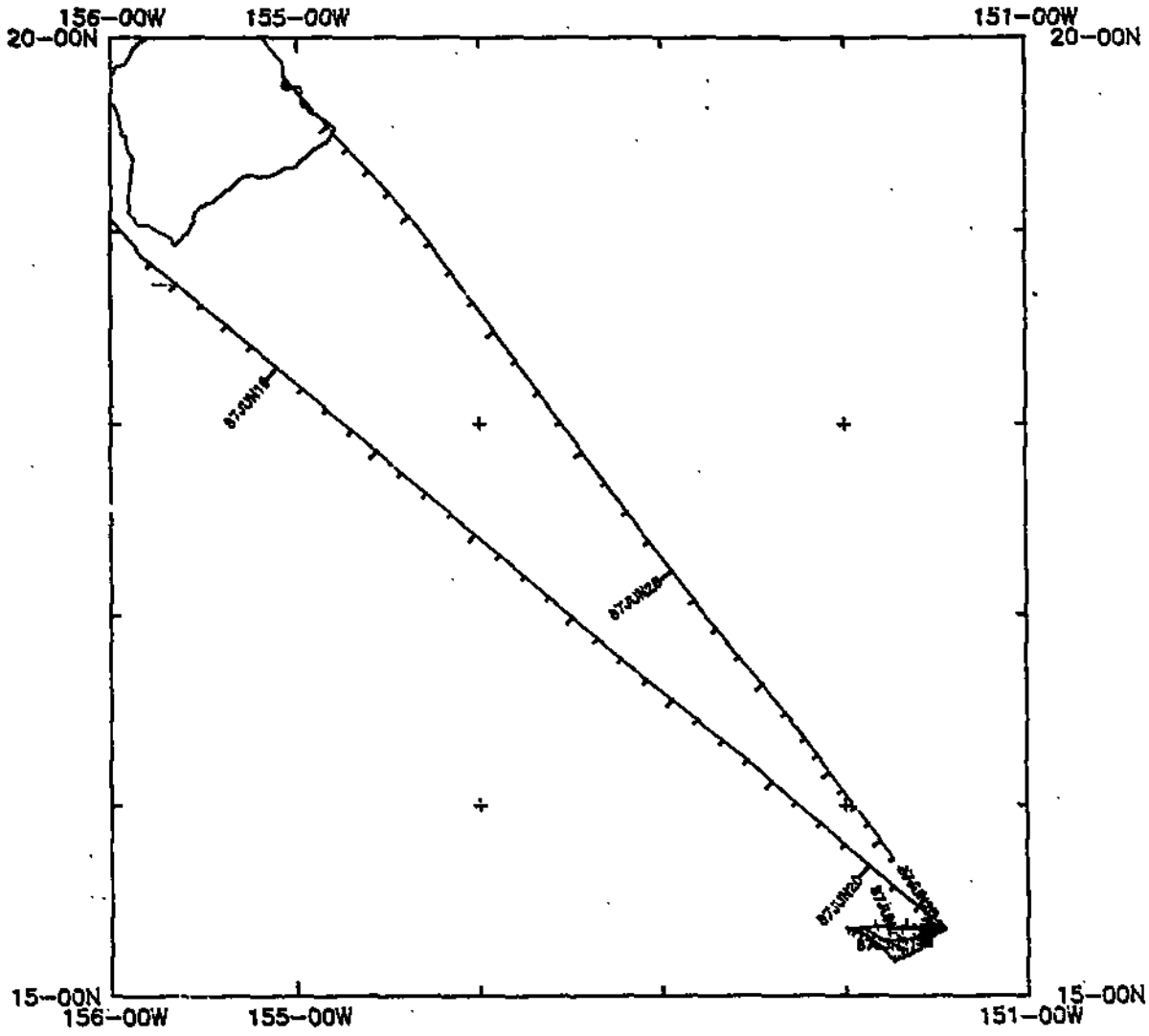
CROSSGRAIN EXPEDITION
LEG 6

CO-CHIEF SCIENTISTS: D. Hammond (Univ. of So. Cal.)
W. Berelson (Univ. of So. Cal.)
PORTS: Honolulu - Hilo, Hawaii
DATES: 18 - 26 June 1987
SHIP: R/V T. Washington

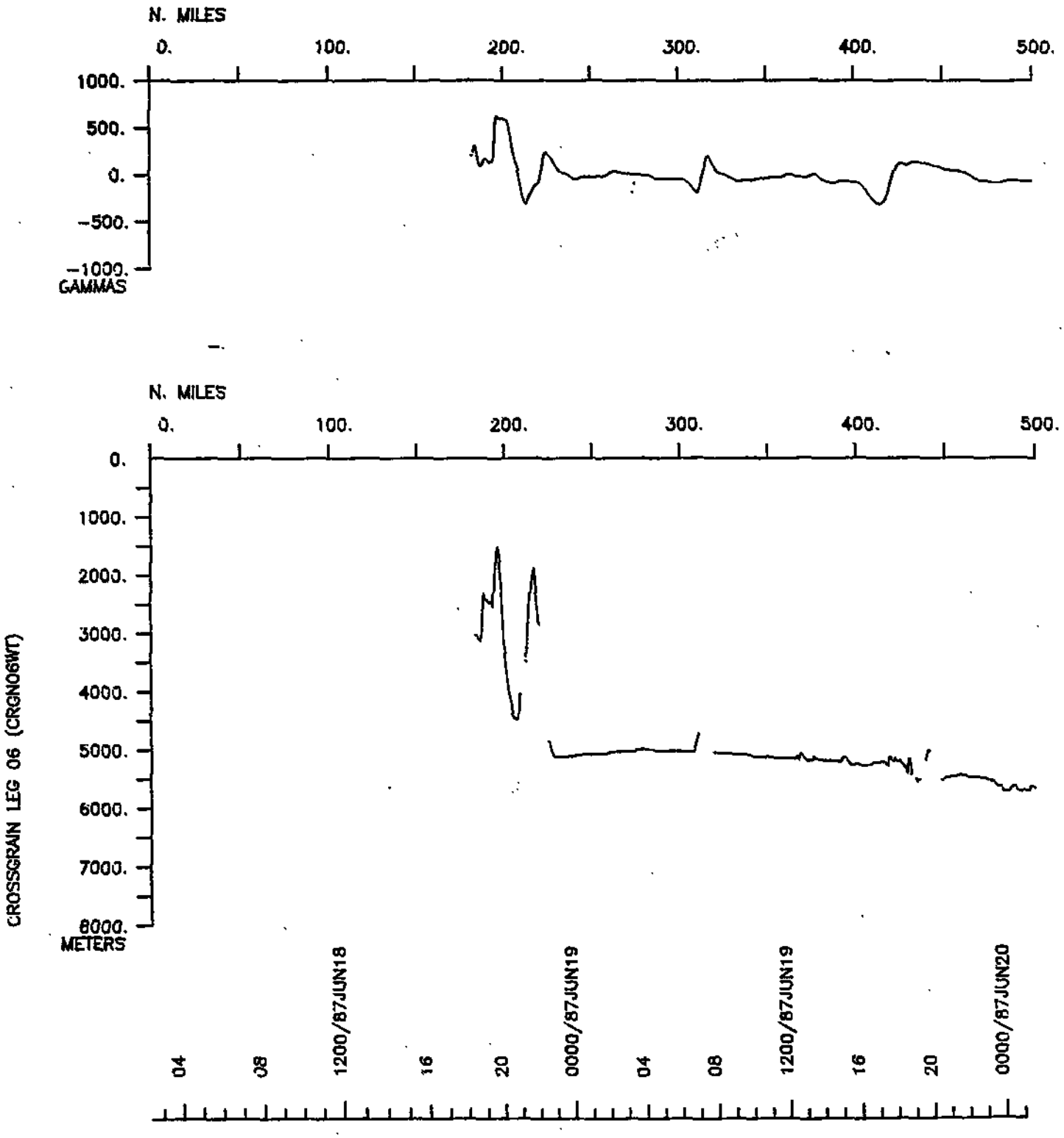
TOTAL MILEAGE OF UNDERWAY DATA COLLECTED
1) Cruise - 1154 miles
2) Bathymetry - 634 miles
3) Magnetics - 644 miles
4) Seismic Reflection - none collected
5) Gravity - none collected



CROSSGRAIN LEG 6 Plot 1 at 1.00in/deg



CROSSGRAIN LEG 6 Plot 2 at 1.00in/deg (CRGN06WT)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N. MILES
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8000.
METERS
CROSSGRAIN LEG 06 (CRGNO6WT)
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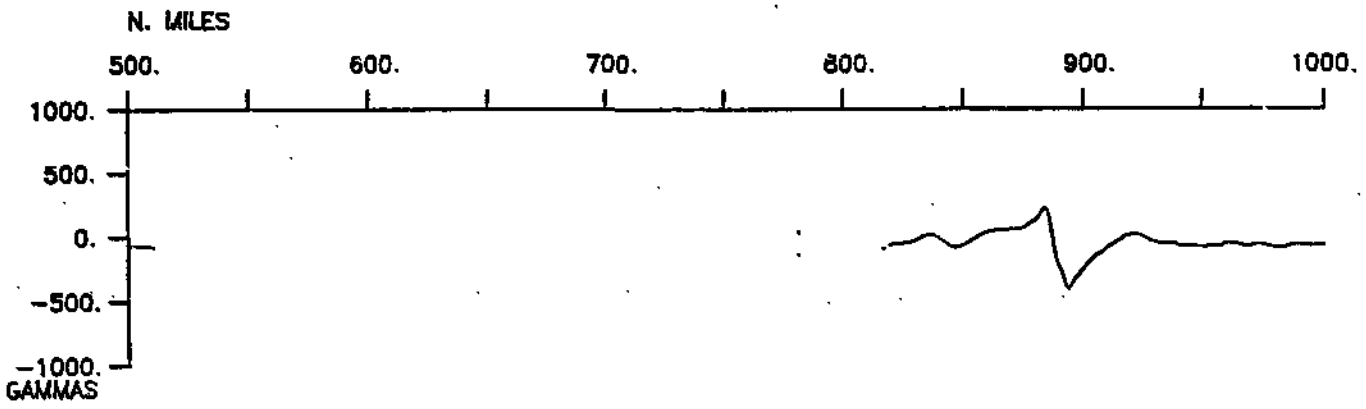
0000/87JUN19
04
08
1200/87JUN19
16
20
0000/87JUN20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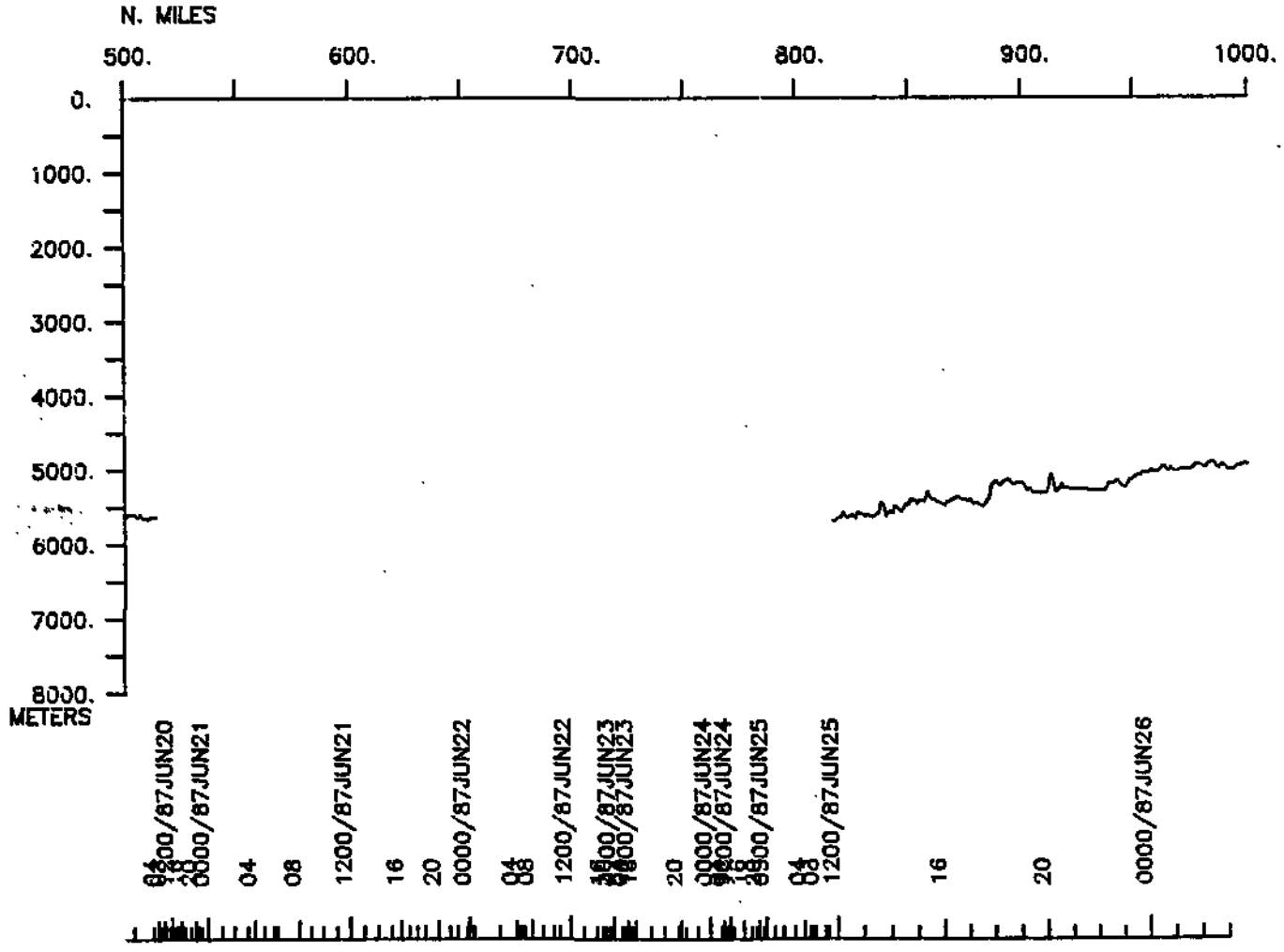
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METERS
CROSSGRAIN LEG 06 (CRGNO6WT)
1200/87JUN20
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1200/87JUN21
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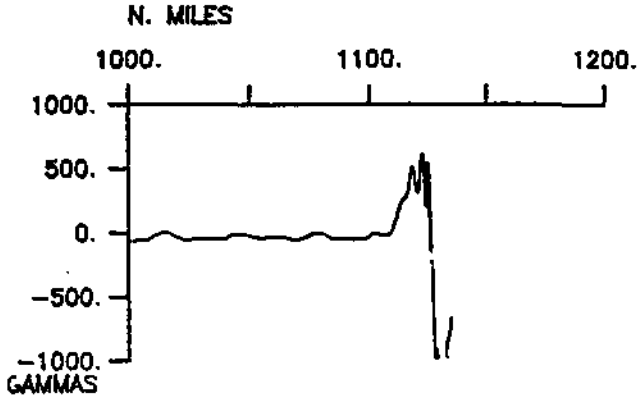
0000/87JUN22
04
08
1200/87JUN22
20
0000/87JUN24
1200/87JUN25
16
20
0000/87JUN26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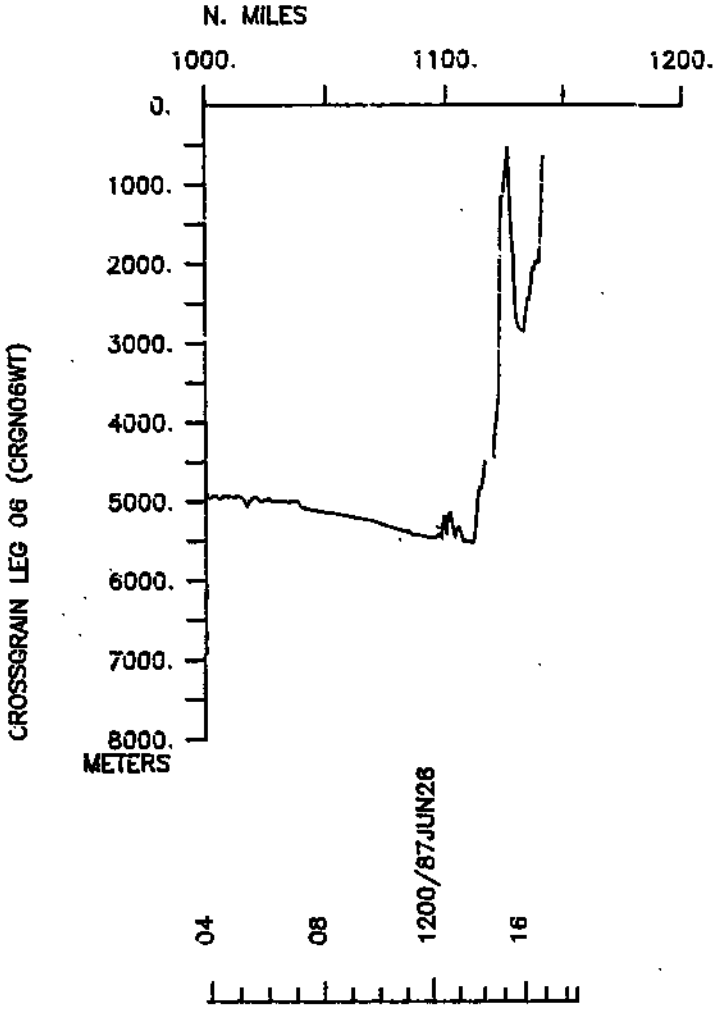
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4000.
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6000.
7000.
8000.
METERS
CROSSGRAIN LEG 06 (CRGN06WT)
04
08
1200/87JUN26
16

S.I.O. SAMPLE INDEX

(Issued October 1987)

CROSSGRAIN EXPEDITION

Leg 6

Honolulu, Hawaii (18 June 1987)
to
Hilo, Hawaii (26 June 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***

0200 180687	LGPT B HONOLULU,HAWAII	21-18 N 157-52 W	fCRGNO6WT
1600 260687	LGPT E HILO,HAWAII	19-44 N 155-04 W	fCRGNO6WT

#***PERSONNEL***

	NAME	***TITLE***	***AFFILIATION***	**CRID**
PECS USC	HAMMOND,D.E.	CHIEF SCIENTIST	UNIV. OF SO. CALIF.	CRGNO6WT
PECS USC	BERELSON,W.M.	CHIEF SCIENTIST	UNIV. OF SO. CALIF.	CRGNO6WT
PESP USC	BAUSCH,D.	TECHNICIAN	UNIV. OF SO. CALIF.	CRGNO6WT
PEVL SIX	CARR,C.	VOLUNTEER	SCRIPPS INSTITUTION	CRGNO6WT
PEST USC	CHEN,M.S.	GRAD STUDENT	UNIV. OF SO. CALIF.	CRGNO6WT
PESP USC	CHIN,C.S.	TECHNICIAN	UNIV. OF SO. CALIF.	CRGNO6WT
PEOB SIX	COURTWAY,D.	OBSERVER	SCRIPPS INSTITUTION	CRGNO6WT
PESP USC	GIBLIN,M.F	TECHNICIAN	UNIV. OF SO. CALIF.	CRGNO6WT
PESP USC	KUSAKABE,M.	POST DOC	UNIV. OF SO. CALIF.	CRGNO6WT
PESP USC	O'NEILL,D.J.	TECHNICIAN	UNIV. OF SO. CALIF.	CRGNO6WT
PESP USC	MCRANEY,J.	ADVISOR	UNIV. OF SO. CALIF.	CRGNO6WT
PECT STS	MOE,R.L.	COMPUTER TECH	SCRIPPS INSTITUTION	CRGNO6WT
PERT STS	PILLARD,E.G.	RESIDENT TECH	SCRIPPS INSTITUTION	CRGNO6WT
PESP UCS	STOUT,P.	POST DOC	UNIV. OF SO. CALIF.	CRGNO6WT
PEST USC	XU,X.M.	GRAD STUDENT	UNIV. OF SO. CALIF.	CRGNO6WT
PESP USC	ZUKIN,J.G.	TECHNICIAN	UNIV. OF SO. CALIF.	CRGNO6WT

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

#GMT DDMMYY LOC T #TIME DATE TIME Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
#***UNDERWAY DATA CURATOR - S. M. SMITH EXT. 42752						
#***LOG BOOKS***						
1820 180687	LBUW B	UNDERWAY WATCH LOG	GDC	18-549N	155-521W	sCRGNO6WT
1655 260687	LBUW E	UNDERWAY WATCH LOG	GDC	19-397N	154-559W	sCRGNO6WT
#*** ECHOSOUNDER RECORDS ***						
1820 180687	DPR3 B	EPC 3.5 KHZ R-01	GDC	18-549N	155-521W	sCRGNO6WT
0534 230687	DPR3 E	EPC 3.5 KHZ R-01	GDC	15-215N	151-278W	sCRGNO6WT
0600 230687	DPRT B	EPC 12 KHZ R-01	GDC	15-216N	151-279W	sCRGNO6WT
1037 250687	DPRT E	EPC 12 KHZ R-01	GDC	15-205N	151-300W	sCRGNO6WT
1100 250687	DPRT B	EPC 12 KHZ R-02	GDC	15-206N	151-300W	sCRGNO6
1600 260687	DPRT E	EPC 12 KHZ R-02	GDC	19-341N	154-499W	sCRGNO6
#*** MAGNETIC (EARTH TOTAL FIELD) RECORDS ***						
1820 180687	MGRA B	MAGNETICS R-01	GDC	18-549N	155-521W	sCRGNO6WT
1655 260687	MGRA E	MAGNETICS R-01	GDC	19-397N	154-559W	sCRGNO6WT
#*** EXPENDABLE BATHYTHERMOGRAPHS ***						
1946 180687	BTXP	XBT-01	NOA	18-443N	155-413W	sCRGNO6WT
0249 190687	BTXP	XBT-02	NOA	17-591N	154-440W	sCRGNO6WT
2230 190687	BTXP	XBT-03	NOA	15-508N	152-044W	sCRGNO6WT
1958 200687	BTXP	XBT-04	NOA	15-219N	151-291W	sCRGNO6WT
1526 210687	BTXP	XBT-05	NOA	15-187N	151-333W	sCRGNO6WT
2341 220687	BTXP	XBT-06	NOA	15-250N	151-277W	sCRGNO6WT
1723 230687	BTXP	XBT-07	NOA	15-219N	151-295W	sCRGNO6WT
1054 250687	BTXP	XBT-08	NOA	15-205N	151-300W	sCRGNO6WT
2352 250687	BTXP	XBT-09	NOA	17-123N	152-566W	sCRGNO6WT
0613 260687	BTXP	XBT-10	NOA	18-116N	153-426W	sCRGNO6WT

#GMT DDMMYY LOC T #TIME DATE TIME Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
#*** GEOCHEMICAL SAMPLE FREE VEHICLE ***						
0528 200687	GCFV	X BOTTOM FLUX LANDER	USC	15-217N	151-282W	sCRGNO6WT
#*** HYDROCASTS ***						
0741 200687	HCNI	TSONIC SURFACE	USC	15-225N	151-297W	sCRGNO6WT
1227 200687	HCNI	T O BE,U,TH SURFACE	USC	15-228N	151-298W	sCRGNO6WT
2157 220687	HCNI	TSONIC BE,U,TH 3500M	USC	15-246N	151-275W	sCRGNO6WT
2027 230687	HCNI	T RA SURFACE	USC	15-221N	151-308W	sCRGNO6WT
1025 240687	HCNI	TSONIC BE,U,TH 5539M	USC	15-222N	151-289W	sCRGNO6WT
1123 250687	HCNI	T RA SURFACE	USC	15-205N	151-302W	sCRGNO6WT
#*** BOX CORES ***						
33 220687	COBX	B SOUTAR BOXCORE #166	USC	15-222N	151-273W	sCRGNO6WT
1528 230687	COBX	X PRETRIPPED	USC	15-229N	151-253W	sCRGNO6WT
0146 240687	COBX	B SOUTAR BOXCORE #167	USC	15-207N	151-294W	sCRGNO6WT
0711 240687	COBX	X PRETRIPPED	USC	15-211N	151-292W	sCRGNO6WT
#*** AIR SAMPLES ***						
0230 180687	ASCS	B ATOMS. PARTICULATES	USC	21-180N	157-521W	sCRGNO6WT
1530 260687	ASCS	E BE-7 1 SAMPLE/2DAYS	USC	19-310N	154-466W	sCRGNO6WT
#*** SURFACE SAMPLES ***						
0230 180687	SSXX	B SURFACE SAMPLE	USC	21-180N	157-521W	sCRGNO6WT
1530 260687	SSXX	E TH,BE 1 SAMPLE/DAY	USC	19-310N	154-466W	sCRGNO6WT
#*** THERMOGRAPH RECORDS ***						
0030 180687	TGRC	B THERMOGRAPHS 1-5	GDC	21-180N	157-521W	sCRGNO6WT
1600 260687	TGRC	E THERMOGRAPHS 1-5	GDC	19-341N	154-499W	sCRGNO6WT
#		END SAMPLE INDEX				