INFORMAL REPORT AND INDEX OF

NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA

(Issued January 1983)

CERES EXPEDITION

LEG 4

Balboa, Panama (16 September 1982) to San Diego, Calif (26 October 1982)

R/V T. Washington

Co-Chief Scientists - R. Hey & R. Tyce (SIO)

Resident Marine Tech - R. Gilchrist

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

Data Collection Funded by ONR Grant Number ONR-0440 Data Processing funded by SIA and NSF

NOTE

This is an index of underway geophysical data edited and processed shortly 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.# - 201

INFORMAL REPORT AND INDEX OF NAVIGATION, DEPTH (SEA BEAM), MAGNETIC AND SUBBOTTOM PROFILER DATA

Contents:

- Index Chart gives track of cruise leg, dates, ports, and mileage of each type of data collected.
- Track Charts annotated with dates (day/month) and hour ticks. The scale is .312 in/degree longitude.
- Profiles depth and magnetic anomaly vs. distance. Dates (day/month) and positions of major course changes (greater than 30 degrees) are annotated. Sections of track having subbottom profiler (airgun) records have a wide black line along the bottom of the profile. Sections having Sea Beam are indicated by a narrow line.
- Sample Index list of beginning and end times and positions of all underway records as well as all other samples (geology, biology, physical oceanography, etc.) collected on the cruise leg.

For information on the availability and reproduction costs of data in the following forms, contact S. M. Smith, Curator, Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093. Phone (714) 452-2752.

- Navigation listing of times and positions of course and speed changes, fixes and drift velocity.
- 2. Depth Compilation Plots Compilation plots at the traditional scale of 4"/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 magnetic anomaly profiles along track map scale = 1.2inch/degree, anomaly scale between 15N and 15 S latitude = 500 gamma/inch, anomaly scale north of 15N and south of 15S = 1000 gamma/inch, from values retrieved at approximately 1 mile spacing and regional field removed using the 1980 IGRF.
- Separate time series files of navigation, depth and magnetics of 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 (airgun)
 - c. Magnetometer records
 - d. Underway data log

Rev June 1982 (Sea Beam)

S.I.O. Sea Beam Data

As of June 1982 the institution's procedures for handling Sea Beam data are still evolving. The following forms are available, subject to approval of the cruise leg chief scientist.

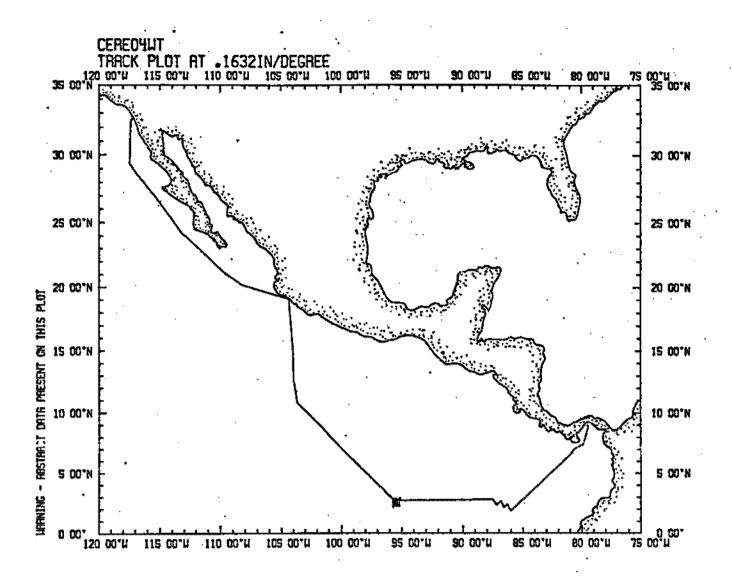
1) Archive copy of contour swath books generated in real time on board ship available for inspection at the data center.

2) Microfilm (35mm flowfilm) containing swath books plus, for some cruises, the UGR monitor record and navigation listings.

3) Sea Beam merged tapes - Sea Beam data merged with navigation (navigation is edited to the extent that 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) 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).

S. M. Smith June 1982

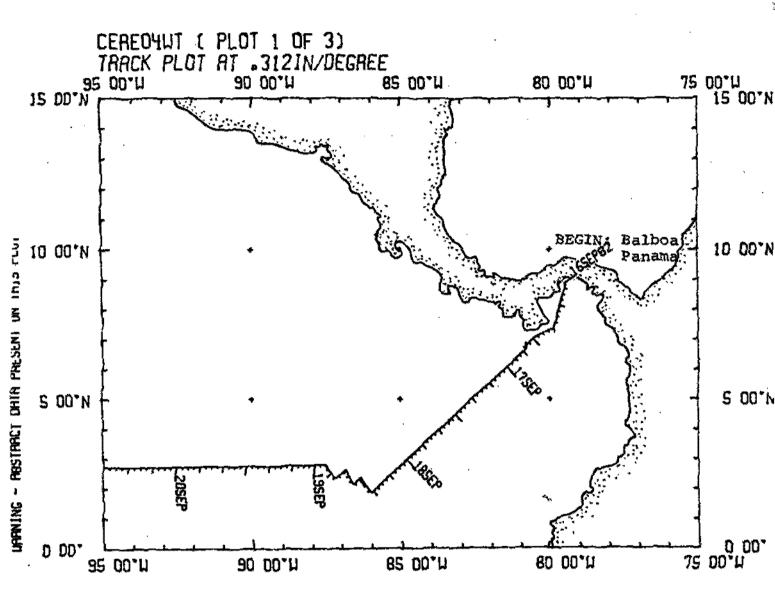


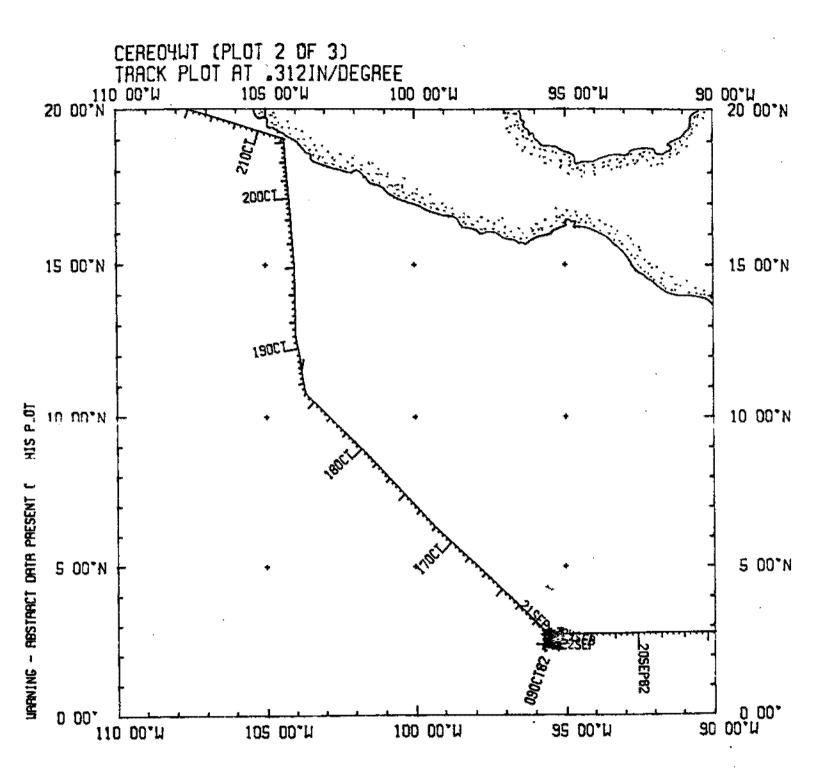
CERES EXPEDITION LEG 4

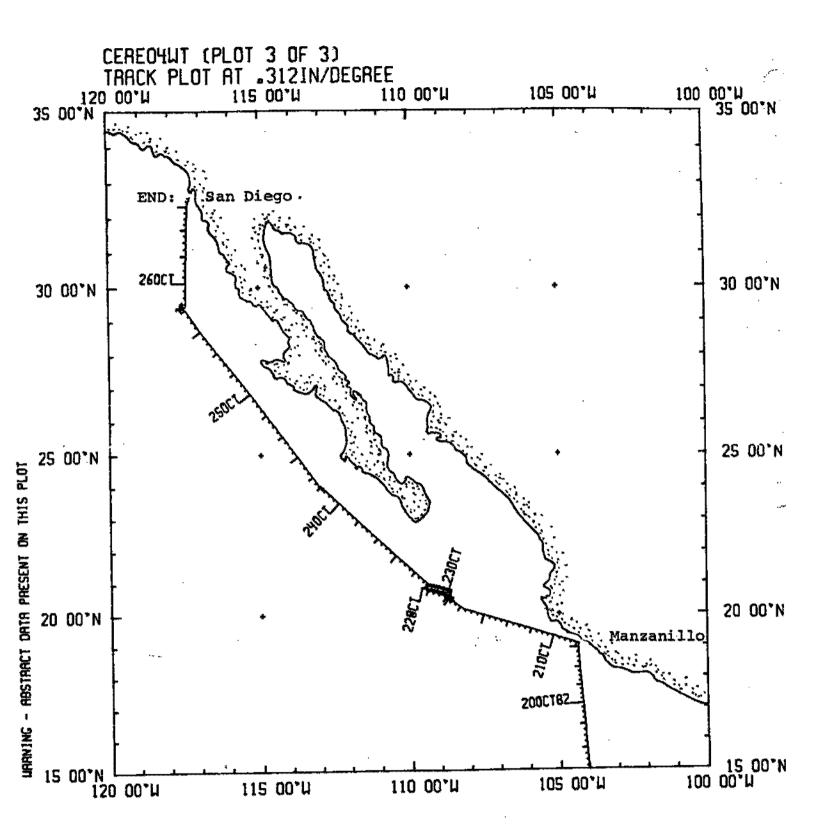
Co-Chief Scientists: R. Hey and R. Tyce (SIO) Ports: Balboa, Panama - San Diego, California Dates: 16 September - 26 October, 1982 Ship: R/V T. Washington

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

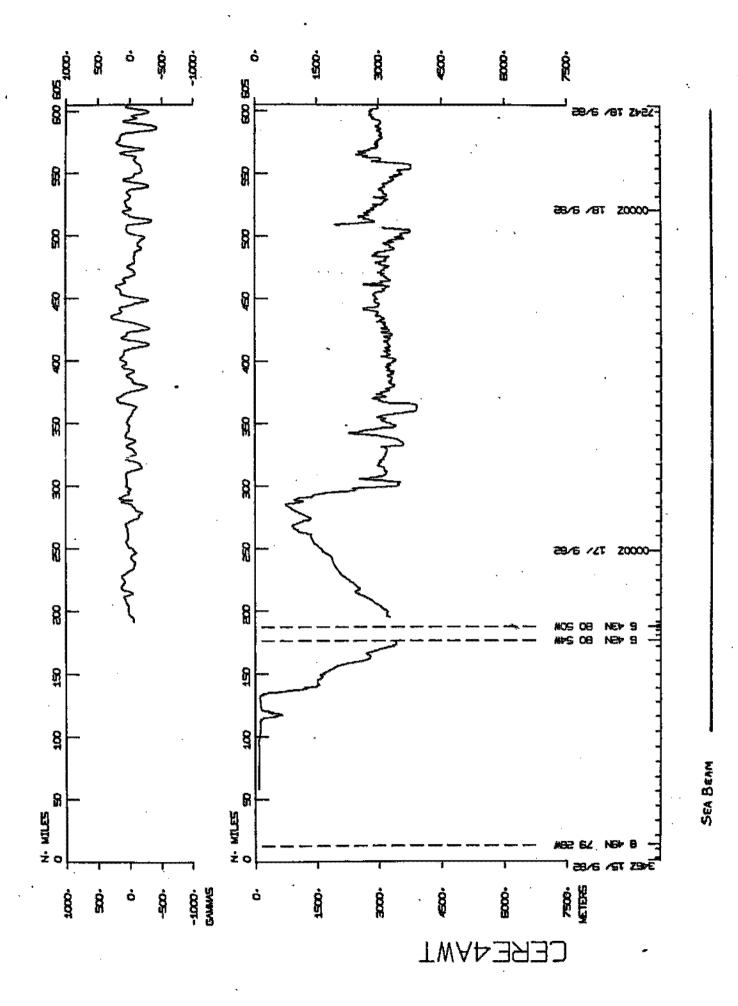
- 1) Cruise 6316 miles
- Bathymetry 6111 miles
 Magnetics 5871 miles
- 4) Seismic Reflection none collected
- 5) Gravity none collected
- 6) Seabeam 6306 miles

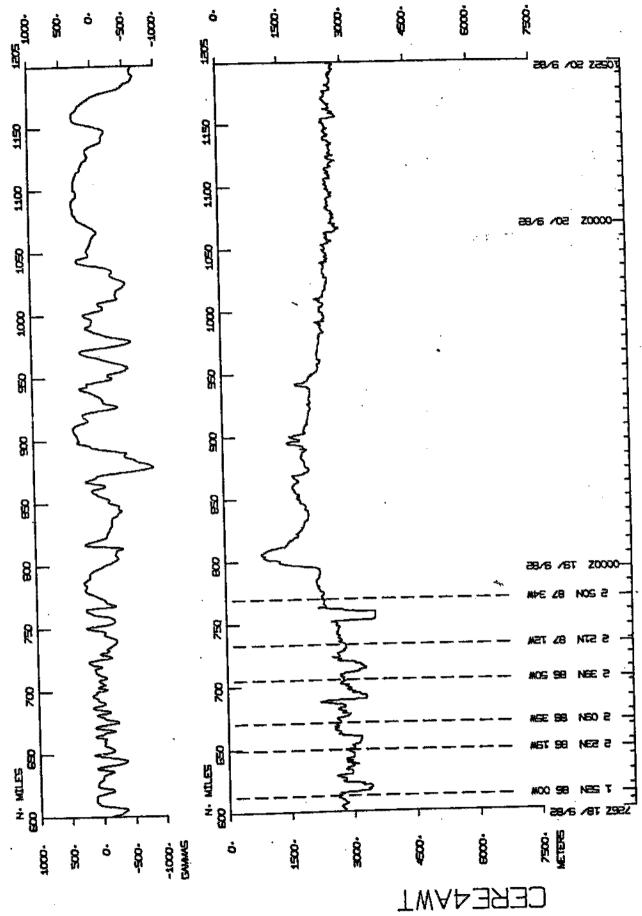




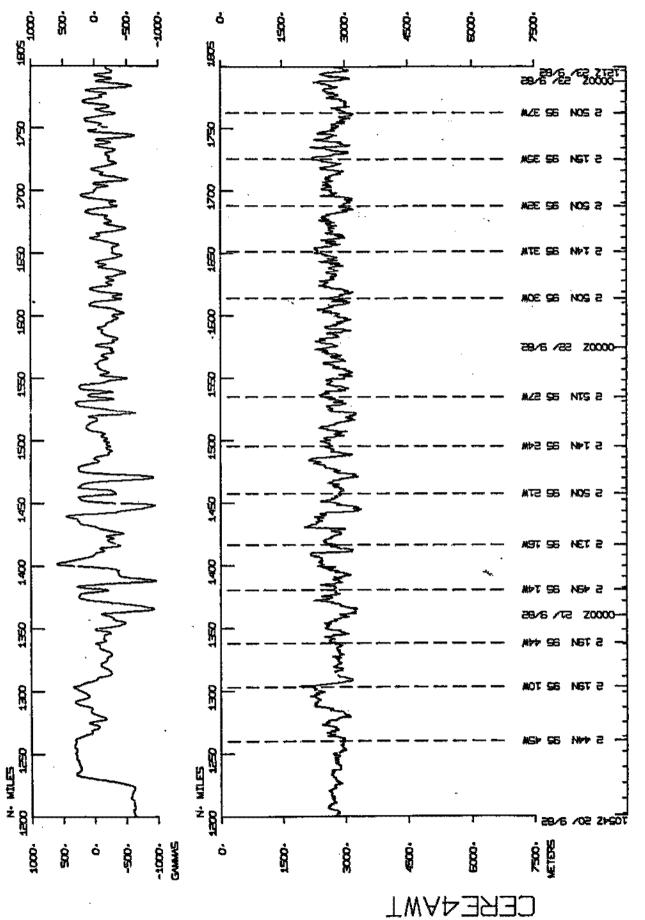


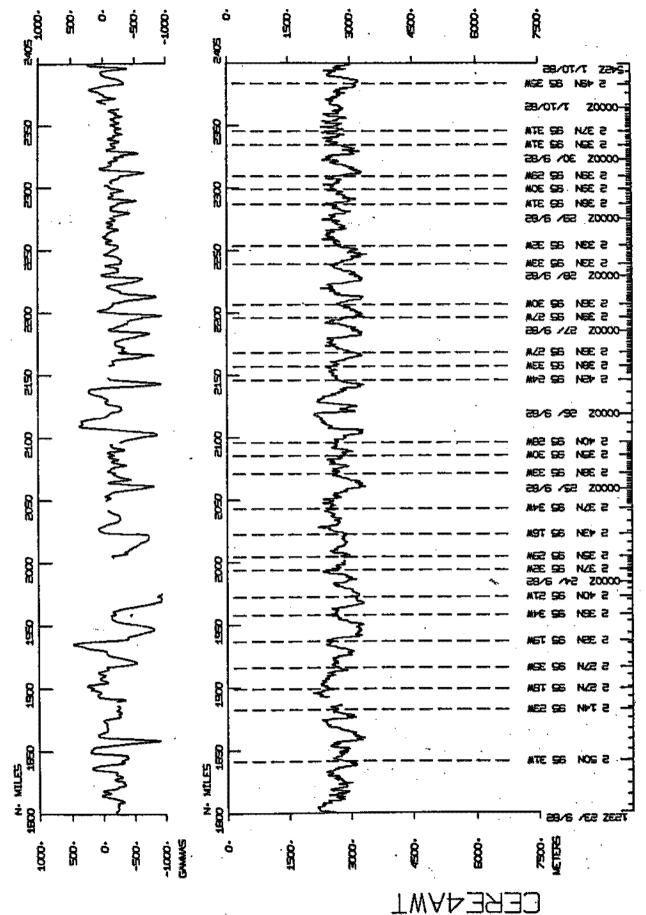
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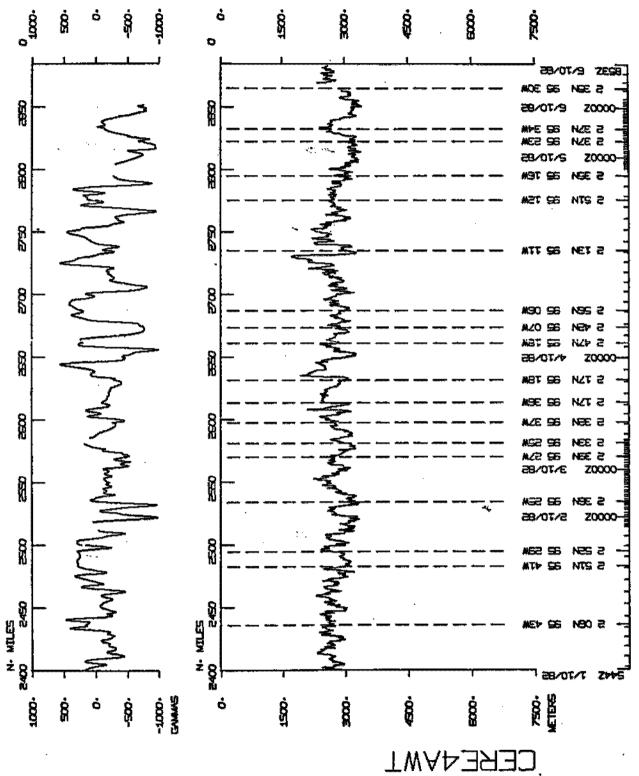


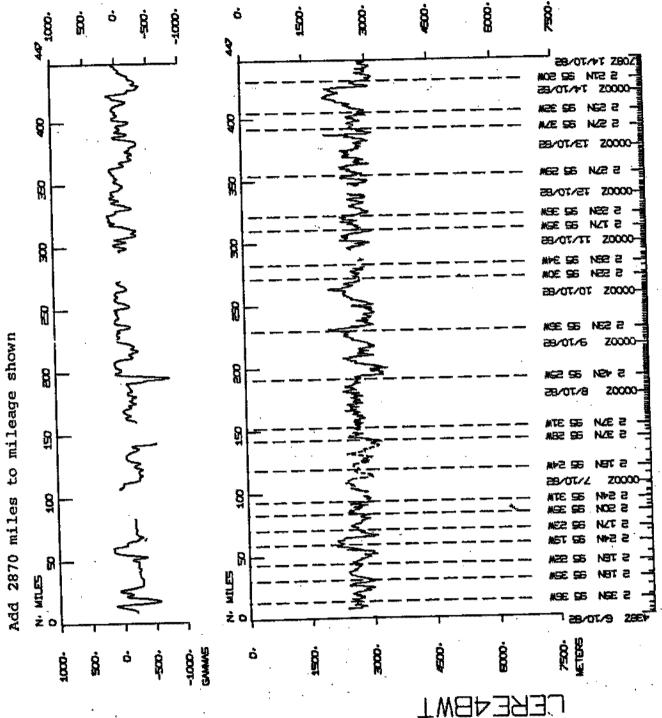


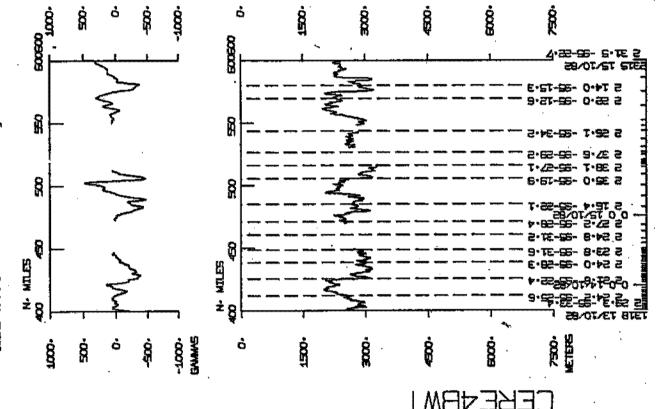
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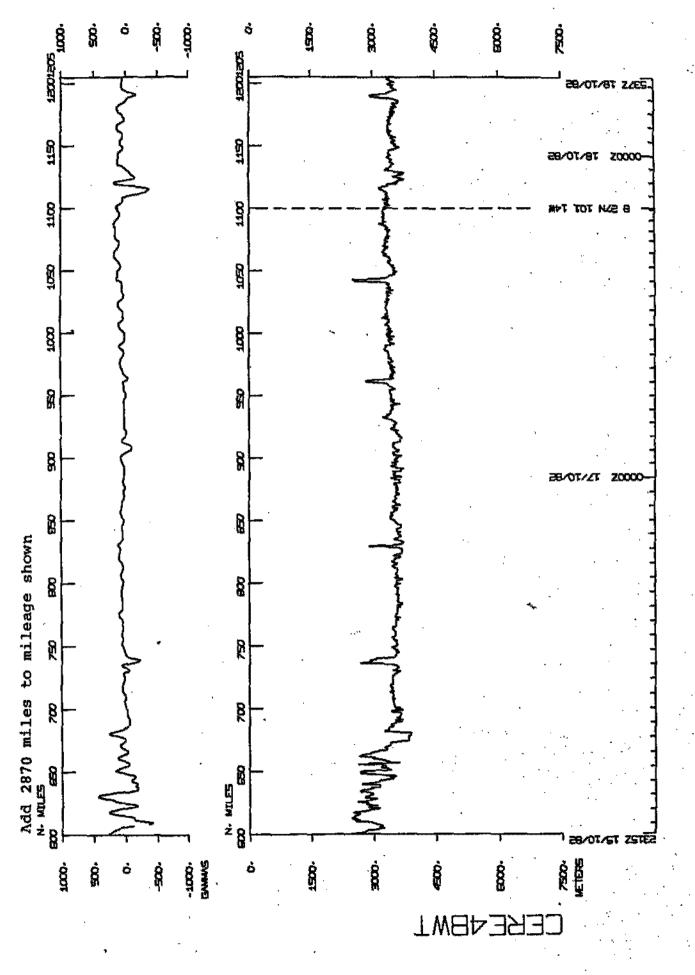




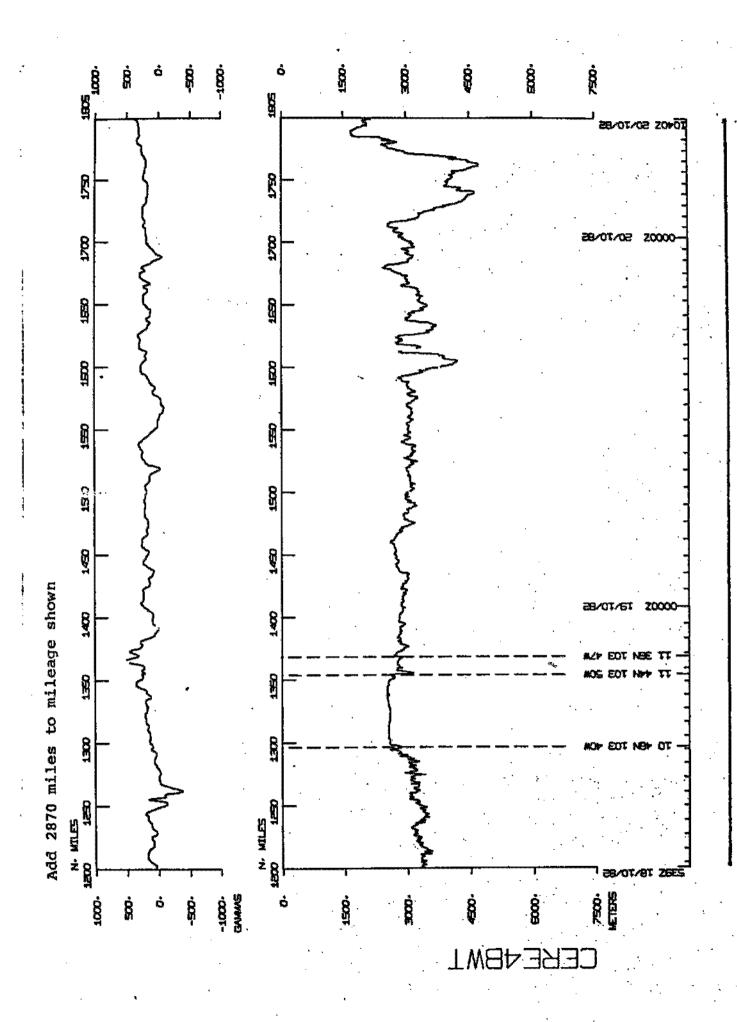
RE4BW -

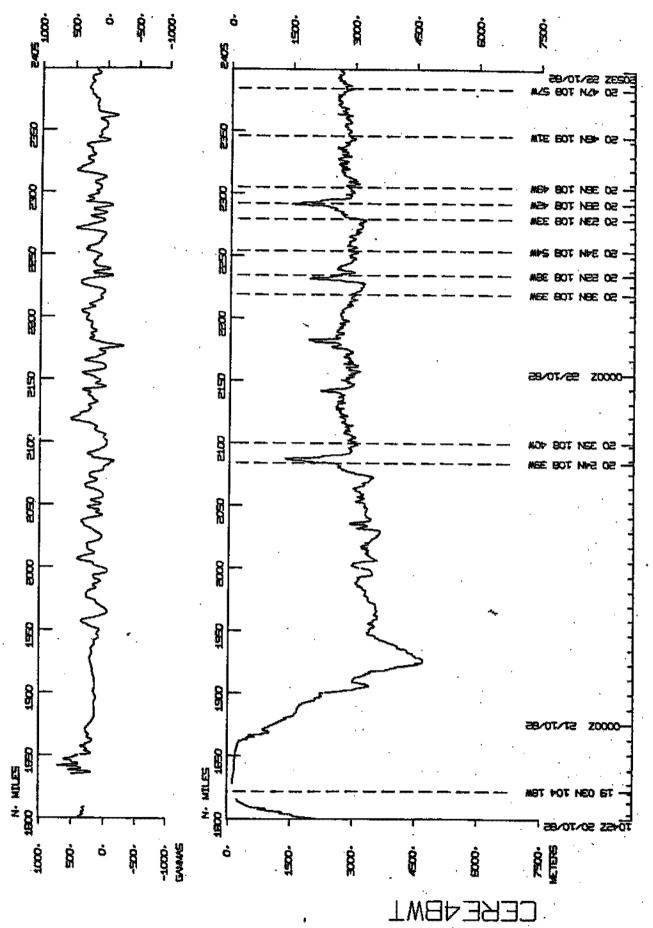
Add 2870 miles co mileage shown

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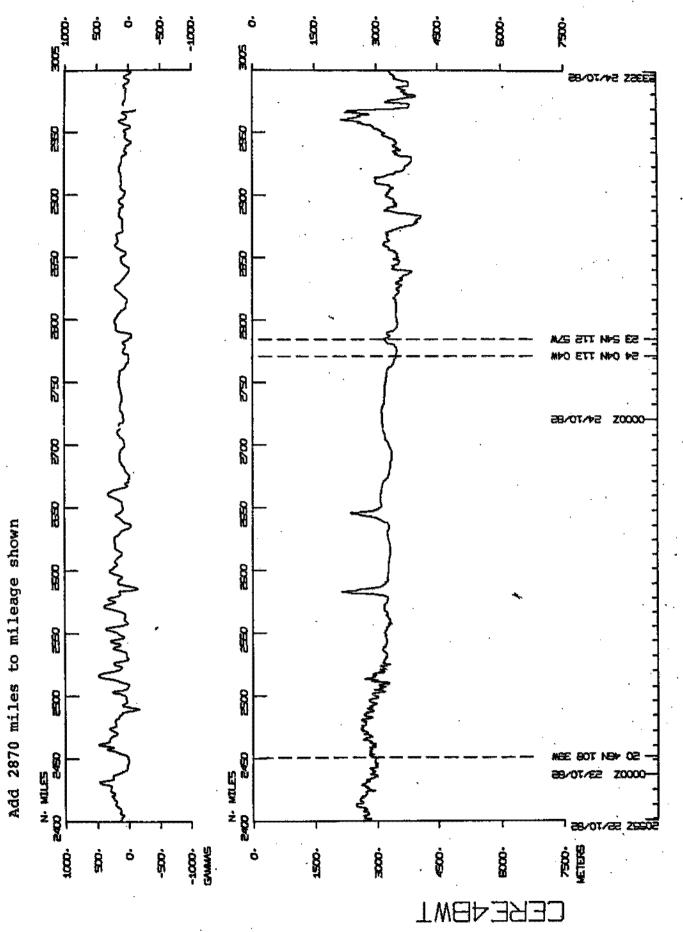


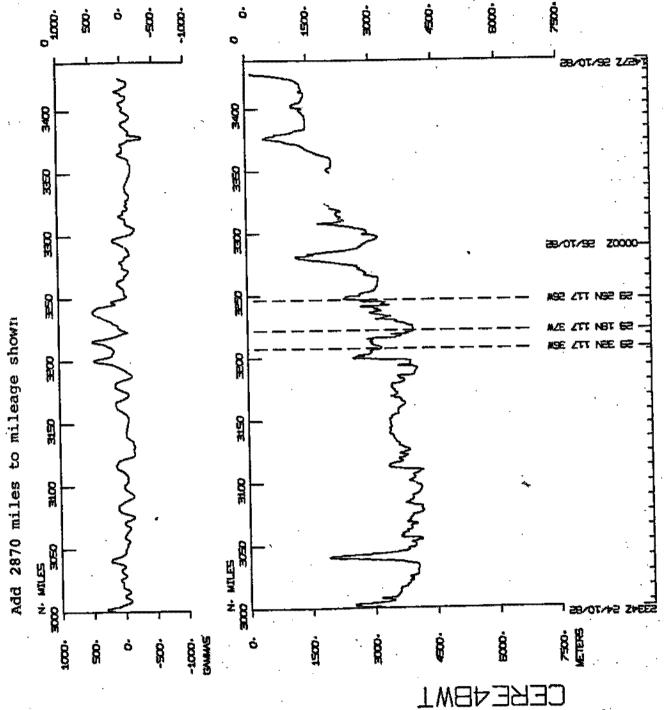
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Add 2870 miles to mileage shown





S.I.O. Sample Index

(Issued January 1983)

CERES EXPEDITION

Leg 4

Balboa, Panama (16 September 1982) to San Diego, Calif (26 October 1982)

R/V T. Washington

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Co-Chief Scientists - R. Hey & R. Tyce (SIO)

Resident Marine Tech - R. Gilchrist

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

Index Encoding Funded by NSF Grant Number OCE80-22996 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 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 cards. 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.)

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GDC Cruise I.D.# - 201

S.I.O. SAMPLE INDEX

GENERATED OSJANB3

*** CEREO4WT SAMPLE INDEX

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26DCT82 - SAN DIEGO,CAL.	
CHIEF SCIENTISTS - HEY.R. MPL TYCE.R. MPL	,

SHIP - R/V THOMAS WASHINGTON (SIO)

PRODUCED BY GEOLOGICAL DATA CENTER, SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CALIFORNIA 92093

TOTAL TYPE DISP PE 87 DP DR DT LB MB MG NV TG 1 1 I GCR 1 1 GDC Ĩ 9 1 50 ٠ 4 11 66 . 12 1 35 3 1 ٩ 10 MPL I 21 2 1 MTG ł 1 1 SID I 2 I UCS 2 1 TOTAL I 9 3 2 9 1 50 4 10 18 1 1 107 ÷., SAMPLE 'TYPE' CODES USED ABOVE **BT = BATHYTHERMOGRAM** DP = DEPTHDR = DREDGE DT = DEEP TOWED INSTRUMENT PACKAGE (MPL PROJECT) LB = LOG BOOKS MB = MULTI-BEAM (SEABEAM) ECHOSOUNDER MG = MAGNETICS (TOWED VEHICLE, SURFACE, TOTAL FIELD) NV = NAVIGATION PE = PERSONNEL IN SCIENTIFIC PARTY TG = THERMOGRAPH SAMPLE 'DISP' CODES USED ABOVE GCR = GEOLOGICAL CURATING FACILITY --- W. RIEDEL, (EXT. 4386) = GEOLOGICAL DATA CENTER -- S. SMITH (EXT. 2752) GDC = MARINE PHYSICAL LAB. (EXT 2305) MPL = MARINE TECHNOLOGY GROUP (EXT 4194) MTG SID = SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CAL. 92093

= UNIV. CALIF. SANTA RARBARA UCS

NUMBER OF SAMPLES OF CLASS 'TYPE' GOING TO DESTINATION 'DISP'

05JAN83 PAGE LOC LOC CODE SAMPLE IDENT. CODE LONG. GMT D /M /Y LAT. LEG-SHIP TIME TZ TIME DATE SAMP DISP CRUISE 00 00. 000 **CEREO4WT SAMPLE INDEX** 00 00. CERE 04WT *** PORTS *** 08 57. N 2323 16/ 9/82 LGPT B BALBOA, PANAMA 79 34. W F CEREO4WT 0800 26/10/82 LGPT E SAN DIFGO.CAL. 32 43. N 117 11. W F CEREO4WT 19 03.1N 104 20. W F CERED4WT 1330 20/10/82 LGUS & MANZANILLO, MEXICO 1920 20/10/82 LGUS E MANZANILLO, MEXICO 19 03.1N 104 20. W F CEREO4WT ***PERSONNEL*** TITLE *** AFFILIATION *** 主主法 *** NAME *** SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093 CAL. 92093 1 HEY,R. CHIEF SCIENTIST CHIEF SCIENTIST 2 TYCE,R. SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA 3 GILCHRIST.R. CAL. 92093 RESIDENT TECH SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA Scripps institution of oceanography, La Jolla CAL. 92093 CAL. 92093 COMPUTER TECH 4 MOE,R. 5 SMITH.W. SFABEAM OPERATOR SCRIPPS INSTITUTION OF OCEANOGRAPHY. LA JOLLA SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093 6 PAVLICEK,V. SEABEAM ENGINEER CAL. 92093 RDEGEMAN, D. DEEP TOW ENGINEER 7 SCRIPPS INSTITUTION OF OCEANDGRAPHY, LA JOLLA CAL. 92093 8 GLEWSON, D. DEEP TOW ENGINEER DEEP TOW ENGINEER SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093 9 ELDER,R. SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA Scripps institution of Oceanography, La Jolla CAL. 92093 CAL. 92093 DEEP TOW PROGRAME 10 LAWHEAD.R 11 DEMOUSTJER, C. STUDENT SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093 THEBERGE.A. DEEP TOW 12 STUDENT SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093 13 KLEINROCK,M. CAL. 92093 SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA DEEP TOW 14 CAROLLO.G. UNIV. CALIF. SANTA BARBARA 15 ATWATER, T. SCIENTIST UNIV. CALIF. SANTA BARBARA 16 MILLER,S. **SCIENTIST** SCRIPPS INSTITUTION OF DCEANOGRAPHY, LA JOLLA CAL. 92093 SCIENTIST 17 SEARLE.R. SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093 STUDENT 18 WEYDERT.M. AN 'X' IN THE (B)EGIN/(E)ND COLUMN FOLLOWING THE SAMPLE ***NOTES*** CODE INDICATES NO SAMPLE OR DATA RECOVERED . A +C+ INDICATES CONTINUATION OF DATA COLLECTION FROM REFORE THE BEGINNING OR AFTER THE END OF THIS LEG.

(MODRED BOTTON 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.

05JAN83 PAGE 2 GNT D /M /Y LOC LOC CODE SAMPLE IDENT. CODE LAT. LONG. LEG-SHIP TIME DATE TIME TZ SAMP DISP CRUISE **** UNDERWAY DATA CURATOR - STUART M. SMITH EXT. 2752 *** *** LOG BOOKS *** 2325 15/ 9/82 LBUW 8 UNDERWAY WATCH LOG GDC 08 57.5N 79 33.9W S CEREO4WT 1400 26/10/82 LBUW E UNDERWAY WATCH LOG GDC 32 34.6N 117 16.5W S CEREO4WT ***SEABEAM MONITOR RECORD - VERTICAL REAM*** 0100 16/ 9/82 MBMR B SB UGR MONITOR R-01 GDC 08 42.2N 79 30.5W 5 CERE04WT 0600 20/ 9/82 MBMR E SB UGR MONITOR R-01 GDC 02 45.2N 93 45.5W S CEREO4WT GDC 02 45.1N 0615 20/ 9/82 MBMR B SB UGR MONITOR R-02 93 48.6W S CERE04WT MBMR E SB UGR MONITOR R-02 1715 25/ 9/82 GDC 02 38.7N 95 29.3W S CEREDAWT 1715 25/ 9/82 GDC 02 38.7N MBMR B SB UGR MONITOR R-03 95 29.3W S CEREO4WT 95 31.1W S CERE04WT 1930 30/ 9/82 MBMR E SB UGR MONITOR R-03 GDC 02 38,9N GDC 02 36.8N 2030 30/ 9/82 MBMR B SB UGR MONITOR R-04 95 31.2W S CEREO 0230 5/10/82 MAMR E SA UGR MONITOR R-04 GDC 02 37.5N 95 24.6W S CERE04#/ 5/10/82 MAMR B SB UGR MONITOR R-05 GDC 02 37.4N 95 25.6W S CEREO4WT 0310 GDC 02 22.5N 95 30.6W \$ CEREO4HT 2330 9/10/82 MBMR E SB UGR MINITOR R-05 95 31.4W S CEREO4WT 0014 10/10/82 GDC 02 22.7N MRMR B SB UGR MONITOR R-06 0020 14/10/82 MAMR E SB UGR MONITOR R-06 GDC 02 25.4N 95 19.7W S CERED4WT GDC 02 26.7N 95 31.3W S CEREO4WT MBMR B SB UGR MONITOR R-07 2300 14/10/82 GDC 10 56.8N 103 41.7W S CEREO4WT 1500 18/10/82 MAMR E. SB UGR MONITOR R-07. MRMR B SB UGR MONITOR R-08 GDC 10 59.3N 103 42.5W S CEREO4WT 1515 18/10/82 GDC 32 28.4N 117 19.7W 5 CEREO4WT MAMR E SB UGR MONITOR R-08 1300 26/10/82 *** FATHOGRAMS *** DPR3 8 3.5 KHZ R-01 MPL 08 42.2N 79 30.5W S CEREO4WT 0100 16/ 9/82 MPL 06 43.2N 80 47.5H S CEREO4WT 1850 16/ 9/82 DPR3 E 3.5 KHZ R-01 80 49.2W S CEREO4WT 1925 16/ 9/82 DPR3 B 3.5 KHZ R-02 MPL 06 40.6N 84 06.5W S CEREO4WT 1842 17/ 9/82 DPR3 E 3.5 KHZ R-02 MPL 03 37.7N 90 41.0W S CEREO4WT 1435 19/ 9/82 DPR3 B 3.5 KH2 R-03 MPL 02 45. 7N 95 18.4W S CEREO4WT 1333 20/ 9/82 DPR3 6 3.5 KHZ R-03 MPL 02 44.6N

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05JANB3 PAGE LOC LOC CODE GMT D /M /Y SAMPLE IDENT. CODE LAT. LONG. LEG-SHIP TIME DATE TIME TZ SAMP DISP **CRUISE** ***SEABEAM SWATH BOOK - REALTIME CONTOUR SWATH*** 1. 1. A. A. 0800 16/ 9/82 HBSB B SB SWATH BOOK OI GDC 07 22.6N 79 54.3W 5 CEREO4WT 1322 16/ 9/82 MBSB E SB SWATH BOOK OL GDC 06 51.1N' 80 45.6W S CERE04WT 1332 16/ 9/82 1254 17/ 9/82 MBSB 8-SB SWATH BOOK 02 GDC 06 49.8N 80 47.0W S CERE04WT MBSB E SB SWATH BOOK, 02 GDC 04 21.2N 83 18.6W S CERE04WT 1256 17/ 9/82 MBSB B SB SWATH BOOK 03 GDC 04 20.9N 83 18.9W S CERE04WT 1345 18/ 9/82 MBSB E SB SWATH BOOK 03 GDC 02 12.9N 86 38.1W S CERE04WT 1345 18/ 9/82 MBSB B SB SWATH BOOK 04 GDC 02 12.9N 86 38.1W S CERE04WT 1055 19/ 9/82 MBSB E SB SWATH BOOK 04 GDC 02 46.4N 90 01.8W S CEREO4WT 1055 19/ 9/82 MBSB B SB SWATH BOOK 05 GDC 02 46.4N 90 01.8W S CEREOAWT MBSB E SB SWATH BOOK 05 0400 20/ 9/82 GDC 02 45.4N 93 21.9W S CERE04WT 0400 20/ 9/82 MBSB B SB SWATH BOOK 06 GDC 02 45.4N 93 21.9W S CERE04WT GDC 02 19.6N 2000 20/ 9/82 MBSB E SB SWATH BOOK 06 95 17.7W S CEREO4WT 2015 20/ 9782 MBSB B SB SWATH BOOK 07 GDC 02 19.5N 95 21.0W S CERE04WT 1538 21/ 9/82 GDC 02 17.2N MASH E SH SWATH BOOK OT 95 26.44 5 CEREO4WT 1540 21/ 9/82 95 26.4W S CEREO MASH & SH SWATH BOOK 08 GDC 02 17.5N 1351 22/ 9/82 MBSB E SB SWATH BOOK 08 GDC 02 42.8N 95 34.7H S CEREON . 1351 22/ 9/82 MBSB B SB SWATH BOOK D9 GDC 02 42.8N 95 34.7W S CEREDANT 1322 23/ 9/82 MBSB E SB SWATH BOOK 09 GDC 02 27.2N 95 23.8W S CERE04WT 1322 23/ 9/82 GDC 02 27.2N MBSB B SB SWATH BOOK 10 95 23.8W S CEREO4WT 2126 25/ 9/82 95 25.3W S CERED4WT MBSB E SB SWATH BOOK 10 GDC 02 41.1N GDC 02 41.2N GDC 02 38.1N 95 24.9W S CEREO4WT 95 30.1W S CEREO4WT 2129 25/ 9/82 MBSB B SB SWATH BOOK 11 1050 29/ 9/82 MESS E SE SWATH BOOK 11 1051 29/ 9/82 MBSB B SB SWATH BOOK 12 GDC D2 38.2N 95 30.1W S CERED4WT 1430 1/10/82 MBSB E SB SWATH BOOK 12 GDC 02 45.3N 95 41.4H S CERED4NT 1430 1/10/82 MRSB B SB SWATH BOOK 13 . GDC 02 45.3N 95 41.4W S CEREO4WT 0135 4/10/82 MBSB E SB SWATH BOOK 13 GDC 02 46.6N 95 16.9W S CEREO4WT 0136 4/10/82 MRSB B SB SWATH BOOK 14 95 16.8W S CEREO4WT GDC 02 46.5N 0445 6/10/82 MRSB E SB SWATH BOOK 14 GDC 02 37.4N 95 29.1W S CERE04NT 0645 6/10/82 MBSB B SB SWATH BOOK 15 GDC 02 38.6N 95 31.8W S CEREO4WT 0945 8/10/82 MBSB E SB SWATH BOOK 15 GDC 02 39.1N 95 26.6W S CEREO4WT 0945 8/10/82 GDC 02 39.1N MBSB B SB SWATH BOOK 16 95 26.6W S CEREO4WT 1447 13/10/82 MASA E SB SWATH BOOK 16 GDC 02 27.1N 95 32.9W 5 CEREDAWT 1447 13/10/82 MASA & SA SWATH BOOK 17 GDC 02 27.1N 95 32.9H S CEREO4HT 0200 16/10/82 NESS E SE SWATH BOOK 17 GDC 02 54.0N 95 44.6W 5. CEREDAWT

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0200 16/10/82 0006 17/10/82	MBSB B 1 MBSB E 1	SB SWATH BOOK 18 SB SWATH BOOK 18	GDC 02 GDC 05	54.0N 95 52.1N 98	44.6W S	CEREO4WT
0007 17/10/82	MBSB B	SB SWATH BOOK 19		52.2N - 98		
0319 18/10/82		SB SWATH BOOK 19	GDC 09	23.7N 102	12.0W S	CEREO4WT
0320 18/10/82 0445 19/10/82	MBSB B	SB SWATH BOOK 20 SB SWATH BOOK 20		23.8N 102 18.2N 104		
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0445 19/10/82 0642 21/10/82	MBSB B : MRSB E :	SB SWATH BOOK 21 SB SWATH BOOK 21		18.2N 104 41.7N 106		
0642 21/10/82	HRSB B	SB SWATH BOOK 22	GDC 19	41.7N 106	32.0W !	5 CEREDANT
1725 21/10/82	, MBSB E	SB SWATH BOOK 22	GDC 20	22.8N 108	36.3W S	5 CEREO4NT
	MBSB B	SB SWATH BOOK 23 SB SWATH BOOK 23		22.8N 108 51.1N 109		
1820 22/10/82		· · · · · · · · · · · · ·				
1820 22/10/82 2011 23/10/82		SB SWATH BOOK 24 SB SWATH BOOK 24		51.1N 109 00.1N 111		
2011 23/10/82	MBSB B	SB SWATH BOOK 25	GDC 23	00.1N 111	44.1W :	S ČEREO4WT
2055 24/10/82	MBSB E	SB SWATH BOOK 25	GDC 26	20.0N 114	57.5W \$	S CEREOAWT
2055 24/10/82 2238 25/10/82		SB SWATH BOOK 26 SB SWATH BOOK 26		20.0N 114 51.6N 117		
			-	51.6N 117		
2238 25/10/82 1300 26/10/82		SB SWATH BOOK 27				
SEABEAM SU	RVEY	•••				• .
	3		- * *.			•
0145 21/09/82	· MBSV B	SEABEAM SURVEY	GDC 02	49.4N 95	15.2W S	S CEREO4WT
1900 15/10/82		SEABEAM SURVEY	GDC 02	25.7N 95	29.5W \$	S CEREDANT
SEABEAM SO	UND VELOCITY PROFI	LE	·	· · ·		
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2252 17/ 9/82	MBVP B	SDUND VELOCITY 01	GDC 03	06.5N 84	39.8W	S CEREOAWT
1550 20/ 9/82		SOUND VELOCITY OL		•		
1550 20/ 9/82 0030 3/10/82		SOUND VELOCITY 02 Sound Velocity 02	GDC 02 GDC 02	43.5N 95 36.4N 95	28.9W 1	S CEREOAWT
0030 3/10/82	MRVP B	SOUND VELOCITY 03	GDC 02	36.4N 95	28.9W	5 CEREO4WT
1611 18/10/82	MBVP E	SOUND VELOCITY 03	GDC 11	09.2N 103	45.0W 3	S CEREVANI
1611 18/10/82 0800 26/10/82		SOUND VELOCITY 04 Sound Velocity 04	GDC 11	09.2N 103 43.4N 117	45.0W 5	S CEREOANT S CEREOANT
VOUN TULINA		2017938 ¥5262443 (****		• • • • • • • • • • • • • • • • • • •		
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05JAN83 PAGE GMT D /M /Y LOC LOC CODE SAMPLE IDENT. CODE LAT. LONG. LEG-SHIP TIME TZ TIME DATE SAMP DISP . CRUISE *** BATHYTHERMOGRAPH *** 1330 17/ 9/82 BTXP XBT OI GDC 04 16.5N 83 23.7W 5 CEREO4WT 1320 20/ 9/82 XBT OZ 95 15.7W S CERE04WT BTXP GDC 02 44.6N 2022 28/ 9/82 X6T 03 GDC 02 37.0N - 95 30.2W S CEREDAWT 8TXP 2030 28/ 9/82 BTXP XBT 04 GDC 02 36,7N 95 30.2W S CEREO4NT 2055 2/10/82 BTXP XBT 05 95 31.1W 5 CEREO4WT GDC 02 37.9N 2146 6/10/82 BTXP XBT 06 -GDC 02 26.3N 95 34.0W S CEREO4WT 2154 9/10/82 BTXP GDC 02 22.2N XBT 07 95 28.4W S CEREOANT 1225 12/10/82 XBT 08 BTXP GDC 02 29.0N 95 28.2W S CEREO4WT 1405 18/10/82 X87 09 GDC 10 47.7N 103 40:4W S CEREO4WT BTXP. *** THERMOGRAPH *** 1543 15/ 9/82 TGRC B THERMOGRAPH SHEET'S GDC 08 57.6N 79 33.9W S CEREO4WT 1105 26/10/82 TGRC E =1 THRU =23 GDC 32 12.7N 117 22.0W S CEREO4WT **** DEEP TOW SURVEY **** CLRATOR ROBERT LAWHEAD EXT. 4892 1540 24/ 9/82 DTWS & DEEP TOW LOWERING OI MPL 02 40.6N 95 31.7W S CEREDAWT 2030 25/ 9/82 MPL 02 41.5N DTWS & DEEP TOW LOWERING OI 95 27.9W S CEREO4 DTWS B DEEP TOW LOWERING 02 0418 26/ 9/82 MPL 02 42.8N 95 29.4W \$ CEREO4WT 2318 30/ 9/82 DTWS E DEEP TOW LOWERING 02 MPL 02 33.9N 95 31.7W S CEREDAWT 1942 1/10/82 DTWS & DEEP TOW LOWERING 03 MPL 02 35.8N 95 25.8W S CEREO4WT 1628 3/10/82 DTWS & DEEP TOW LOWERING 03 MPL 02 32.2N 95 24.3W S CEREDAWT 0830 DTWS 8 DEEP TOW LOWERING 04 5/10/82 MPL 02 37.9N 95 26.1W S CEREO4WT 0336 6/10/82 DTWS E DEEP TOW LOWERING 04 MPL 02 36.4N 95 22.3W S CEREO4WT DTWS & DEEP TOW LOWERING 05 1245 7/10/82 MPL 02 36.0N 95 31.6W S CEREO4WT DTWS E DEEP TOW LOWERING 05 1630 10/10/82 MPL 02 26.4N 95 34.6W S CEREDAWT DTWS B DEEP TOW LOWERING 06 2213 10/10/82 MPL 02 28.0N 95 36.0W S CERE04WT 1750 14/10/82 DTWS E DEEP TOW LOWERING 06 MPL 02 24.5N 95 32.7W S CEREO4WT 1300 20/09/82 DTWS B SURVEY PROPAGATING MPL 03 00.0N 095 00.0W F CEREO4WT 2330 15/10/82 DTWS E RIFT SEABEAM LIMITS MPL 02 10.0N 095 50.0W F CERE04WT 1540 24/09/82 DTWS B DEEP TOW AREA NORTH MPL 02 40.0N 095 26.0W F CEREO4WT 0700 08/10/82 **DTWS E PROPAGATING RIFT TIP** MPL 02 32.3N 095 33.4W F CEREO4WT 0000 09/10/82 MPL 02 30.0N 095 25.0W F CEREOAWT DTWS B DEEP TOW AREA SOUTH 1630 14/10/82 MPL 02 15.0N 095 40.0W F CERED4WT DTWS E FAILED/NYING RIFT

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*** NAVIGATIONAL INST			
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2303 23/ 9/82	NVXX B TRANSPONDER BLUE 01 NVXX E TRANSPONDER BLUE 01	MPL 02 39.4N. 95 29.7W MPL 02 20.3N 95 20.0W	
0057 24/ 9/82	NVXX B TRANSPONDER RED 01	MPL 02 37.3N 95 29.4W	S CEREO
1200 15/10/82	NVXX E TRANSPONDER RED 01	MPL 02 37.7N 95 29.8W	S CEREO
0256 24/ 9/82	NVXX B TRANSPONDER GREEN 01	MPL 02 38.3N 95 32.0W	
0644 6/10/82	NVXX E TRANSPONDER GREEN OI		
0406 24/ 9/82 1200 15/10/82	NVXX B TRANSPONDER BLUE O2 NVXX E TRANSPONDER BLUE O2	MPL 02 36.6N 95 31.9) MPL 02 37.7N 95 29.8	N S CEREO N S CEREO
1743 6/10/82	NVXX B TRANSPONDER RED 02	MPL 02 20.7N 95 32.7	W S CEREO
2200 14/10/82	NVXX E TRANSPONDER RED 02	MPL 02 26.1N 95 35.7	N S CEREC
0650 24/ 9/82	NVXX B TRANSPONDER GREEN 02		W S CEREO W S CEREO
0551 6/10/82	NVXX E TRANSPONDER GREEN 02		
1905 6/10/82 1700 15/10/82	NVXX B TRANSPONDER BLUE 03 NVXX E TRANSPONDER BLUE 03		W S ĈEREO W S ĈEREO
2103 6/10/82	NVXX B TRANSPONDER RED 03	MPL 02 26.2N 95 34.2	W S CEREC
1700 15/10/82	NVXX E TRANSPONDER RED 03		W S CEREC
1646 6/10/82	NVXX B TRANSPONDER GREEN 03 NVXX E TRANSPONDER GREEN 03	MPL 02 22.7N 95 34.6	W S CEREC
2100 14/10/82	NVXX E TRANSMINDER GREEN 05		
2255 6/10/82 1900 14/10/82	NVXX B TRANSPONDER GREEN 04 NVXX E TRANSPONDER GREEN 04	MPL 02 26.1N 95 25.2 MPL 02 26.1N 95 35.7	W S CERE
*** DREDGES ***			
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0648 15/10/82	DRRD 8 DREDGE 01	MPL 02 38.1N 95 27.4	W S CEREC
1145 15/10/82	DRRO E DREDGE 01	MPL 02 37.6N 95 30.0	W S'CERE(
DREDGE CURATOR	WM. RIEDEL (EXT. 3360)	·	
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0834 15/10/82 1045 15/10/82	DRRD B ROCK DR FDGE 23 DRRD E ROCK DRFDGE 23	GCR 02 38.0N 95 28.0 GCR 02 38.0N 95 29.3	W S CEREC W S CEREC
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