#### INFORMAL REPORT AND INDEX OF

NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA \*

(Issued November 1983)

## ECHO EXPEDITION

LEG 1

San Diego, Calif. (3 June 1983) to San Diego, Calif. (30 June 1983) R/V Melville

Chief Scientist - F. Spiess (SIO)

Resident Marine Tech - J. Boaz

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

Data Collection Funded by NSF and NOAA Grant Number NSF OCE80-24472 and NOAA-00659 Data Processing funded by SIA and NSF

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.# - 207

Only navigation and Sample Index included in this report.

Contents:

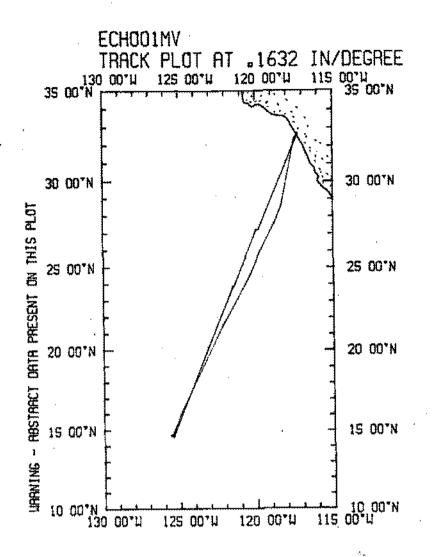
- Index Chart gives track of cruise leg, dates, ports, and mileage of each type of data collected.
- Track Charts annotated with dates (day/month) and hour ticks. The scale is .312 in/degree longitude.
- Profiles depth and magnetic anomaly vs. distance. Dates (day/month) and positions of major course 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.

- 1. 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)

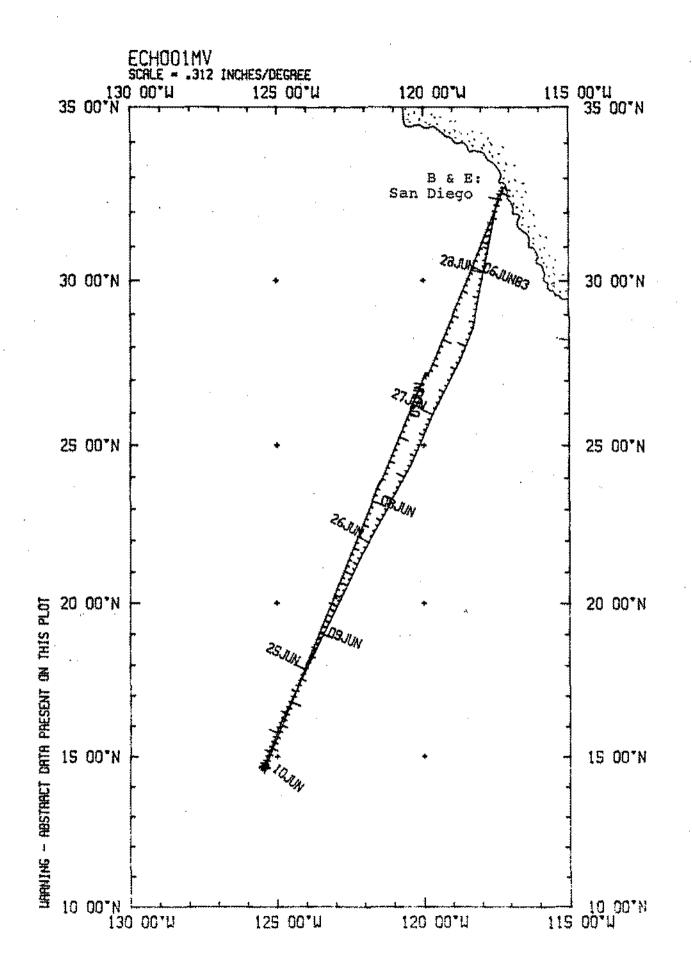
\* Only navigation and Sample Index included in this report.



## ECHO EXPEDITION LEG 1

CHIEF SCIENTIST- F. Spiess (SIO) Ports: San Diego, Calif. - San Diego, Calif. Dates: 3 June - 30 June 1983 Ship: R/V Melville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED 1) Cruise - 2813 miles 2) Bathymetry - none collected 3) Magnetics - none collected 4) Seismic Reflection - none collected 5) Gravity - none collected



### S.I.O. Sample Index

\*\$\$ \*

#### (Issued November 1983)

#### ECHO EXPEDITION

Leg 1

San Diego, Calif. (3 June 1983) to San Diego, Calif. (30 June 1983)

R/V Melville

Chief Scientist - F. Spiess (SIO)

Resident Marine Tech - J. Boaz

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.)

GDC Cruise I.D.# -207

# S.I.O. SAMPLE INDEX

# GENERATED 18NOV83

(ECHDO1MY) \*\*\*

# \*\*\* ECHO LEG 1 SAMPLE INDEX

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OF DCEANNGRAPHY, LA JULLA, CALIFORNIA 92093										

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

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TOTAL	1	5	16	4	26	1	51

SAMPLE - TYPE ! CODES USED ABOVE

BU = BUDY (DCEANOGRAPHIC) REPLACED TYPE RB MAR, 74 CO = CORE DT = DEEP TOWED INSTRUMENT PACKAGE (MPL PROJECT)

PE = PERSONNEL IN SCIENTIFIC PARTY

SAMPLE -DISP' CODES USED ABOVE

4.05

GSU = U.S. GFOLOGICAL SURVEY MBD = MARINE BIOLOGY RESEARCH DIVISION (EXT. 4245) MPL = MARINE PHYSICAL LAB. (EXT 2305) MTG = MARINE TECHNOLOGY GROUP (EXT 4194) NDA = NATIONAL OCEANOG. + ATMOSPH. ADMINISTRATION RRH = ROBERT R. HESSLER (EXT 2665) SIO = SCRIPPS INSTITUTION OF OCEANO (RAPHY, LA JOLLA, CAL. 92093 SIX = SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)

PAGE GMT D /H /Y 100 100 CODE LAT-LEG-SHIP SAMPLE IDENT. CODE WING. TIME DATE TIME TZ SAMP DISP CRUI SE ECHO LEG 1 SAMPLE INDEX ECHO01MV \*\*\* PURTS \*\*\* 0236 5/ 6/83 LGPT 8 SAN DI EGO, CALIF. 32 43. N 117 11. W F ECHDOINV 1502 287 6/83 LGPT & SAN DIEGO, CALIF. 32 40.6N 117 10.1W ECHO01NV \*\*\*PERSUNNEL\*\*\* \*\*\* NAME \*\*\* TITLE AFFILIATION **太太太** SPIESS,R. CHIEF SCIENTIST SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA 1 CAL. 92093 INSTITUTION OF DEEANOGRAPHY, LA JOLLA 2 BOAZ.J. RESIDENT TECH COMPUTER TECH CAL. 92093 CAL. 92093 SCRIPPS SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA MOE,R. PROFESSOR SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA HESSLER,R. CAL. 92093 4 INSTITUTION OF OCEANOGRAPHY, LA TECHNICIAN CAL. 92093 5 WILS (N.G. SCRIPPS JALLA 6 LOWENSTEIN.C. SPECIALIST SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093 SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA LAWHEAD .K . COMPUTER TECH CAL. 92093 SCRIPPS INSTITUTION UF DEEANOGRAPHY, ENG I NËER Ĥ ELDER .R. LA JUI 1 V CAL. 92093 SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA BOEGEMAN . A . ENG INEER Ģ JULLA CAL. 92093 SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA ENGINEER TECHNICIAN CAL. 92093 CAL. 92093 10 JAIN, J. CLARY .T. .10114 11 JULLA MOUST LER,C. STUDENT SCRIPPS INSTITUTION UF OCEANOGRAPHY, LA JOLLA 12 CAL. 92093 13 WEYDERT,M. SCRIPPS INSTITUTION OF DEE AND GRAPHY, LA JOLLA STUDENT CAL. 92093 SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAROLLO.G. TECHNI CLAN CAL. 92093 14 SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA VOLUNTEER 15 VARUM.E. CAL. 92093 NATIONAL OCEANIG, + ATHOSPH, ADMINISTRATION SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JULLA CAL. 92093 SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675) SNIDER, J. 15 NOAA MULL INEAUX . L. STUDENT 12 DEEPSEA VENTURES 18 DICK.R. SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT. 3675) FOELL E. DEEPSEA VENTIRES 19 NATIONAL OCEANIG. + ATMOSPH. ADMINISTRATION SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT. 3675) 20 THESERGE, S. NOAA CRAHFORD .M. LOCKHEED 21 22 RUDE.P. SCIENTIST U.S. GEOLOGICAL SURVEY SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT. 3675) SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT. 3675) 23 WINN R. (USC) VOLUNTEER US C KOR EA 24 HAN.S. SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093 25 WILK INSON.J. TECHNICIAN 26 STUCK ON .W. VOL UNT EER SCRIPPS INSTITUTION UF OCEANDGRAPHY, LA JOLLA CAL. 92093

- 18NOV 8 3

###NOTES### AN 'X' IN THE (B)EGIN/(F) NO COLUMN FOLLOWING THE SAMPLE 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. (HOURED BOTTOM INSTRUMENTS, FOR EXAMPLE), THE NUMBER APPEARING IN THE COLUMNS BETWEEN THE SAMPLE IDENTIFIER AND THE DISPUSITION CODE. FOR MANY SAMPLE ENTRIES. IS THE WATER OF PTH IN CORRECTED METERS.

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	10/6/83			DROP H-2				125 22.5W	
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GMT D /M /Y TIME DATE	LOC LOC COD TIME TZ SAM			IOV83 PAGE	3 LEG-SHIP CRUISE
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END SAMPLE INDEX

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