INFORMAL REPORT AND INDEX OF

NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA

(Issued January 1979)

MARIANA EXPEDITION

LEG 5

Agana, Guam (15 October 1978) to Agana, Guam (24 October 1978)

R/V T. Washington

Chief Scientist - James Hawkins (SIO)

Resident Marine Tech - J. Coatsworth

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

Data Collection Funded by NSF

Grant Number OCE78-17823

Data Processing Funded by SIA, NSF, ONR and IDOE SEATAR

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 Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093.

Informal Report and Index of Navigation, Depth, Magnetic and Subbottom Profiler Data

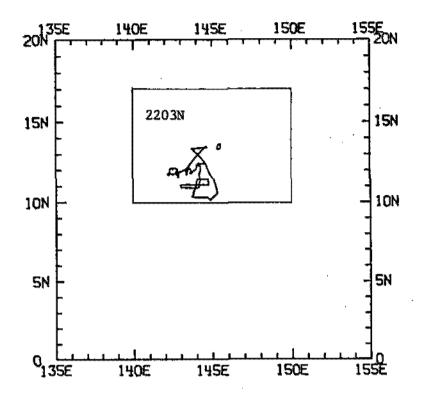
Contents:

- Track Charts annotated with dates (day/month) and hour ticks. The scale is .3"/deg. long.
- 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 solid black line along the bottom of the profile.

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 in fathoms (assumed sound velocity of 800 fm./sec.) at approximately 1 mile spacing, plotted at 4"/degree with standard U. S. Navy Oceanographic Office BC series boundaries (see index chart).
- 3. Plots of magnetic anomaly profiles along track map scale = 1.2"/degree; anomaly scale between 15°N and 15°S latitude = 500 gamm/inch; anomaly scale north of 15°N and south of 15°S = 1000 gamm/inch; from values retrieved at approximately 1 mile spacing and regional field removed using the 1975 IGRF.
- 4. Card decks of navigation, depth and magnetics (for specific formats, contact S. M. Smith, Geological Data Center).
- 5. S. I. O. 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.
- 6. 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

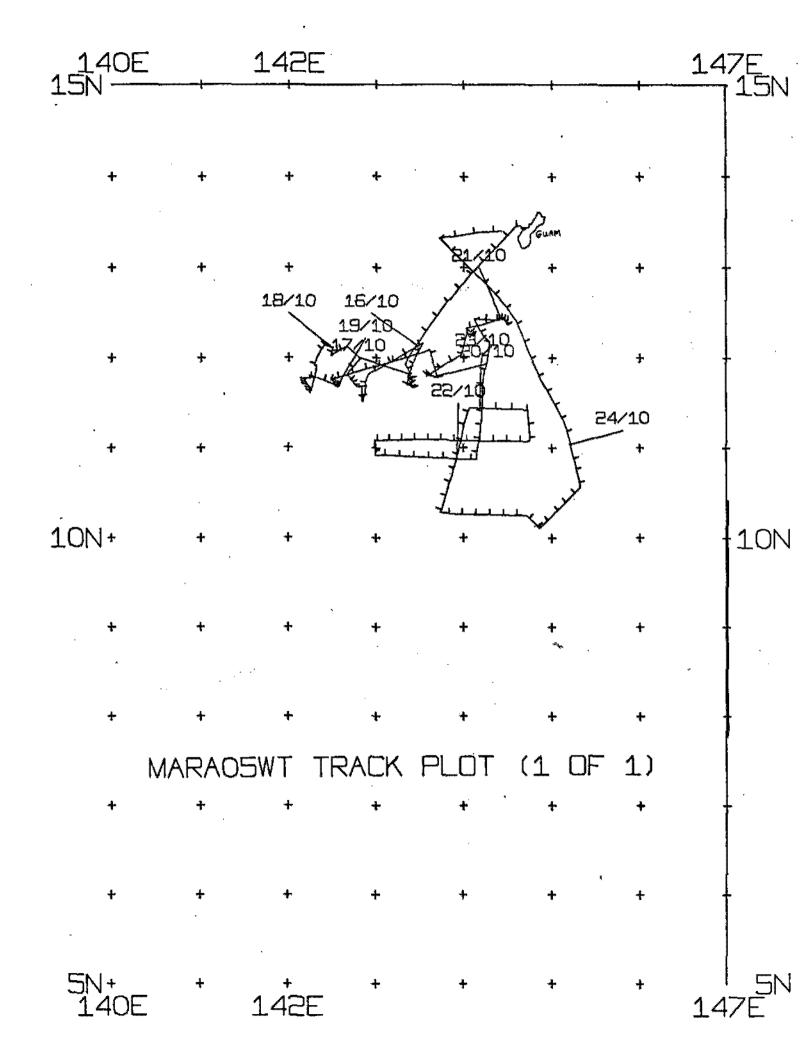
^{*} Gravity - Contact L. M. Dorman (ext.2406) for status

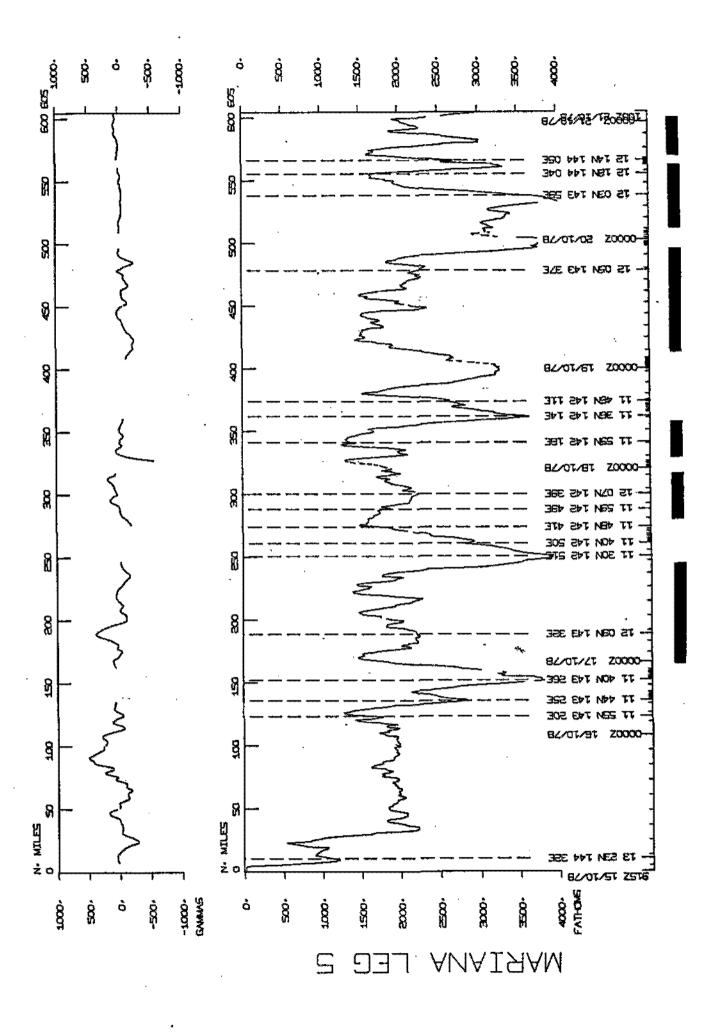


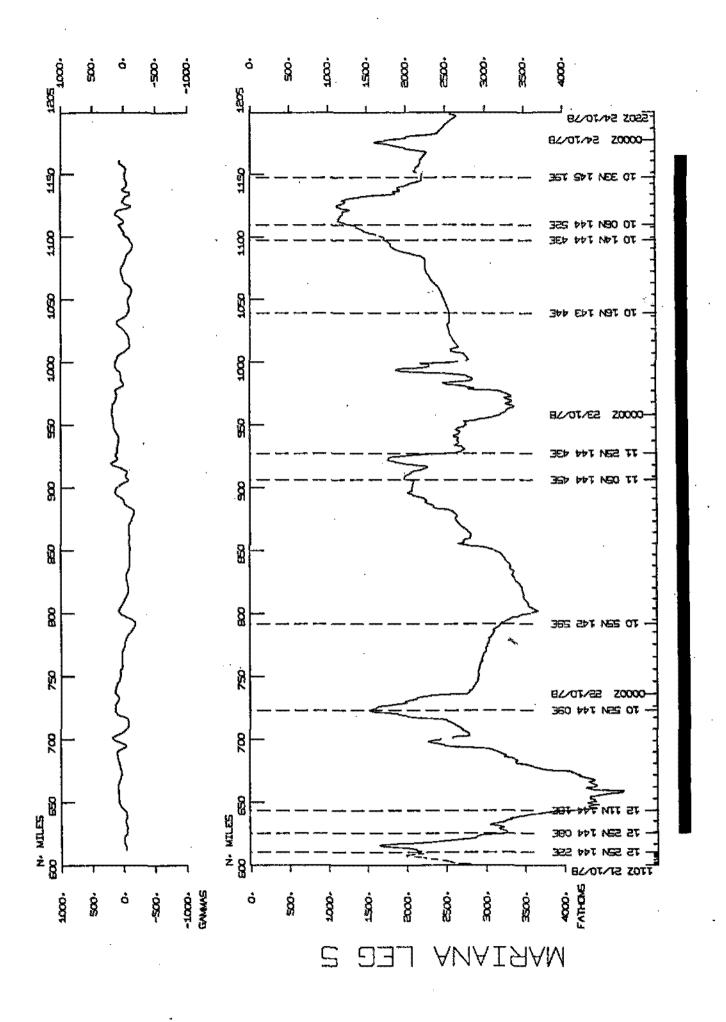
MARIANA EXPEDITION LEG 5 Chief Scientist - J. Hawkins (SIO) Ports - Agana to Agana, Guam Dates - 15 to 24 October 1978 Ship - R/V T. Washington

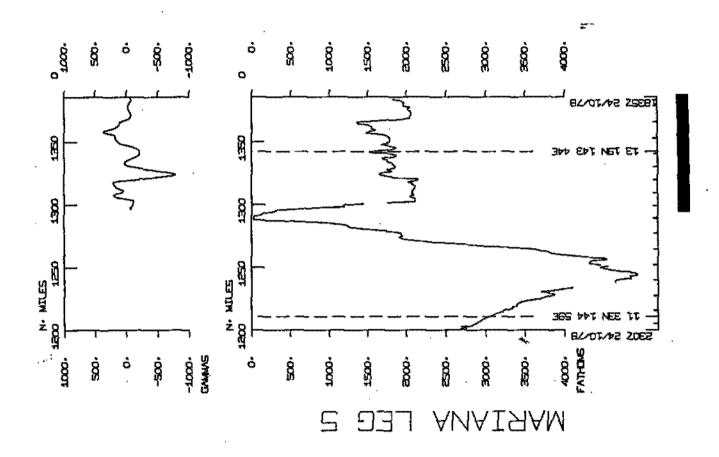
TOTAL MILEAGE

- 1) Cruise 1394 miles
- 2) Bathymetry 1389 miles3) Magnetics 1114 miles
- 4) Seismic Reflection 944 miles
- 5) Gravity collected









S.I.O. SAMPLE INDEX

(Issued January 1979)

MARIANA EXPEDITION

LEG 5

Agana, Guam (15 October 1978) to Agana, Guam (24 October 1978)

R/V T. Washington

Chief Scientist - J. Hawkins (SIO)

Resident Marine Tech - J. Coatsworth

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

Index Encoding Funded by NSF Grant Number OCE76-80618 Index Processing and Report Preparation Funded by ONR, SIA and IDOE SEATAR

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.)

NOTE: This document is intended primarily for informal use within the institution and is not to be reproduced or distributed outside Scripps without prior approval of the Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093.

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CHIEF SCIENTIST - J.W. HAWKINS GRD

SHIP - R/V THOMAS WASHINGTON (SIO)

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

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

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SAMPLE 'TYPE' CODES USED ABOVE

OP = DEPTH

DR = DREDGE

GV = GRAVITY

LB = LOG BOOKS

MG = MAGNETICS (TOWED VEHICLE, SURFACE, TOTAL FIELD)

PE = PERSONNEL IN SCIENTIFIC PARTY

SP = SEISMIC REFLECTION PROFILE AIRGUN

SAMPLE 'DISP' CODES USED ABOVE

GCR = GEOLOGICAL CURATING FACILITY -- W. RIEDEL: (EXT. 4386)

GDC = GEOLOGICAL DATA CENTER -- S. SMITH (EXT. 2752)

= GEOLOGICAL RESEARCH DIVISION (EXT. 3360) GRD

LMD

= LERDY M. DORMAN (EXT. 2406) = MARINE PHYSICAL LAB. (EXT 2305) MPL

= MARINE TECHNOLOGY GROUP (EXT 4194) MTG

ORD # OCEAN RESEARCH DIVISION

= SHIPBOARD COMPUTER GROUP (EXT. 4195) SCG

= SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CAL. 92093

OBFEB79 PAGE LOC LOC CODE CODE LEG-SHIP GMT D /M /Y SAMPLE IDENT. LUNG. TIME DATE TIME TZ DISP CRUISE SAMP MARIANA LEG 5 SAMPLE INDEX MAR AOSHT *** PORTS *** LGPT B AGANA, GUAN 13 27.0N 144 37.0E F MARAOSWT 1420 15/10/78 2048 24/10/78 LGPT E AGANA. GUAM 13 27.UN 144 37.0E F MARAOSWT ***PERSONNEL*** *** NAME *** TITLE *** AFFILIATION . *** CHIEF SCIENTIST SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093 1 J.W. HAWKINS . 2 J.L. COATSWORTH RESIDENT TECH SCRIPPS INSTITUTION OF DCEANOGRAPHY. LA JOLLA CAL. 92093 COMPUTER TECH SCRIPPS INSTITUTION OF OCEANOGRAPHY. LA JOLLA CAL. 92093 A.J. HENKY RES. ASSIST. SCRIPPS INSTITUTION OF OCEANOGRAPHY. LA JULLA CAL. 92093 L.D. BIBEE STUDENT SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JULLA CAL. 92093 5 S.H. BLOCMER SCRIPPS INSTITUTION OF OCEANOGRAPHY. LA JOLLA CAL. 92093 P.J. CRAMPTON ASSO.DVLMT.ENGR. SCRIPPS INSTITUTION OF OCEANOGRAPHY. LA JOLLA STUDENT CAL. 92093 7 C.A. EVANS SCRIPPS INSTITUTION NON-EMPLOYEE - (CONTACT DORCAS UTTER EXT. 2356 8 S. JEINE STUDENT SCRIPPS INSTITUTION OF OCEANOGRAPHY. LA JOLLA 9 R.M. KEICKHEFER CAL. 92093 10 J.T. MELCHOIR SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093 STUDENT SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JULLA 11 L.D. MICHAEL **VOLUNT EER** CAL. 92093 STUDENT SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093 12 S. NEWMAN 13 E. NGIRAELBAED SCRIPPS INSTITUTION NON-EMPLOYEE -ICONTACT DORCAS UTTER EXT. 2356 14 P.V. O NEILL S/RES.ASSOC. SCRIPPS INSTITUTION OF OCEANOGRAPHY. LA JOLLA CAL. 92093 UNIV. CALIF. SANTA BARBARA 15 M. REICHLE PROFESSOR SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093 16 E.N. SHOR VOLUNTEER ASST. DVLMT. ENGR. SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093 17 D.F. WILLOUGHBY

*** NOTE *** AN 'X' IN THE (B)EGIN/(E)NO COLUMN FOLLOWING THE SAMPLE CODE INDICATES NO SAMPLE OR DATA RECOVERED

GMT 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 BOOK\$ ***

1421 15/10/78 2048 24/10/78 *** FATHOGRAMS ***		GDC 13 26. IN 144 39.6E S MARAOSWT GDC 13 22.8N 144 29.0E S MARAOSWT
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0415 17/10/78	DPR3 B UGR 3.5 KHZ R-02	GDC 12 01.4N 143 17.5E S MARAOSWT
0758 22/10/78	DPR3 E UGR 3.5 KHZ R-02	GDC 11 05.2N 143 09.0E S MARAOSWT
0815 22/10/78	DPR3 B UGR 3.5 KHZ R-03	GDC 11 05.2N 143 11.3E S MARAOSWT
1306 24/10/78	DPR3 E UGR 3.5 KHZ R-03	GDC 13 04.6N 143 58.9E S MARAOSWT
1421 15/10/78	DPRT B GDR 12 KHZ R-01	GDC 13 26.1N 144 39.6E S MARAOSHT
0915 16/10/78	DPRT E GDR 12 KHZ R-01	GDC 11 46.9N 143 22.5E S MARAOSHT
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1705 23/10/78	DPRT E GDR 12 KHZ R-05	GDC 10 12.4N 144 58.4E S MARAOSHT
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