INFORMAL REPORT AND INDEX OF NAVIGATION, DEPTH AND MAGNETIC DATA

(Issued November 30, 1978)

MARIANA EXPEDITION

LEG 1

San Diego, California (24 July 1978) to Honolulu, Hawaii (1 August 1978)

R/V T. Washington

Chief Scientist - R. Wilson (SIO)

Resident Marine Tech - R. Wilson

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

Data Collection Funded by NSF Grant Number OCE77-23258 Data Processing Funded by SIA, NSF, ONR

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.

GDC Cruise I.D.# - 176

Contents:

Track Charts - annotated with dates (day/month) and hour ticks. The scale is .3"/deg. long.

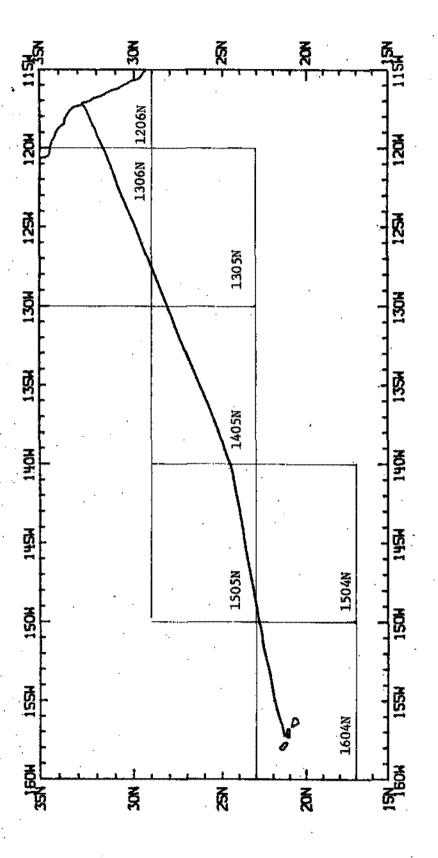
Profiles

- 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

^{*} NO SUBBOTTOM PROFILER DATA COLLECTED



MARIANA EXPEDITION LEG

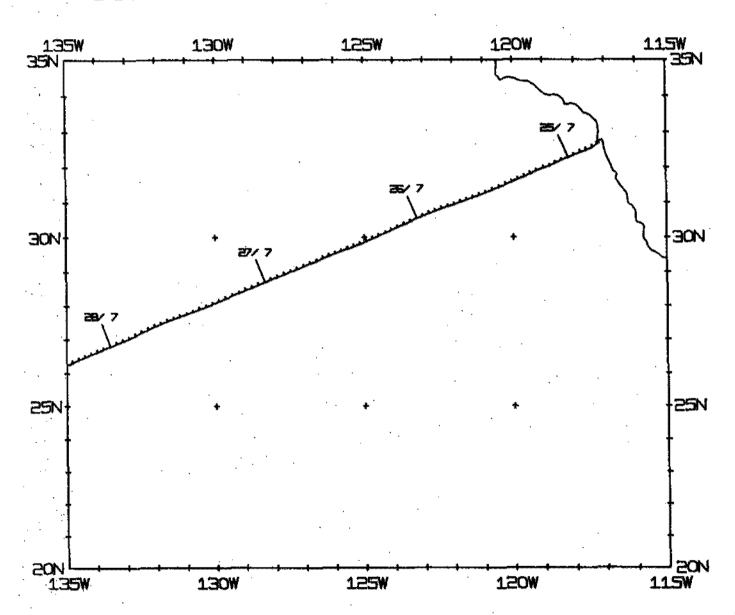
Chief Scientist - R. Wilson Ports: San Diego to Honolulu, Hawaii Dates: 24 July to 1 August 1978

Ship: R/V T. Washington

- TOTAL MILEAGE Cruise 2305 miles Bathymetry - 2923 miles
- Seismic Reflection none collected Gravity - none collected 1) Cruise - 2305 miles
 2) Bathymetry - 2923 miles
 3) Magnetics - 2990 miles
 4) Seismic Reflection - non
 5) Gravity - none collected

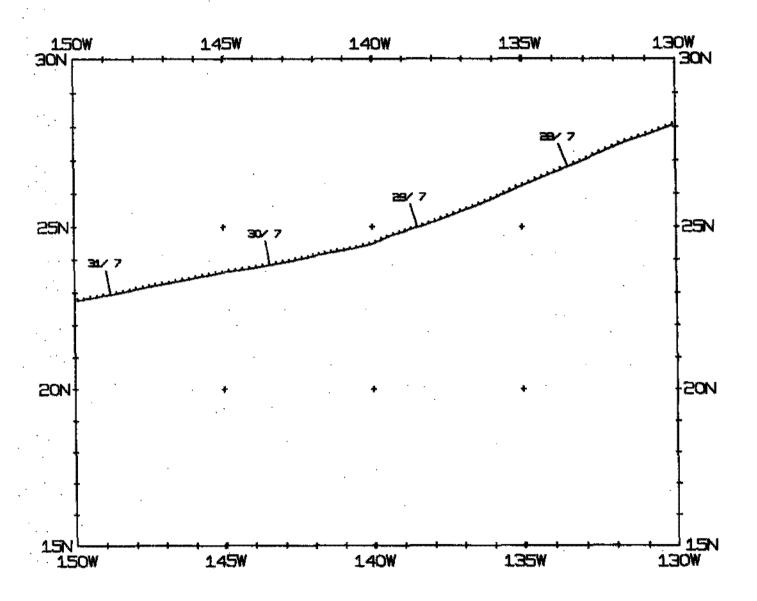
MARAO1WT TRACK PLOT (1 OF 3)

MERCATOR PROJECTION, SCALE: 0.312 IN/DEG LONGITUDE



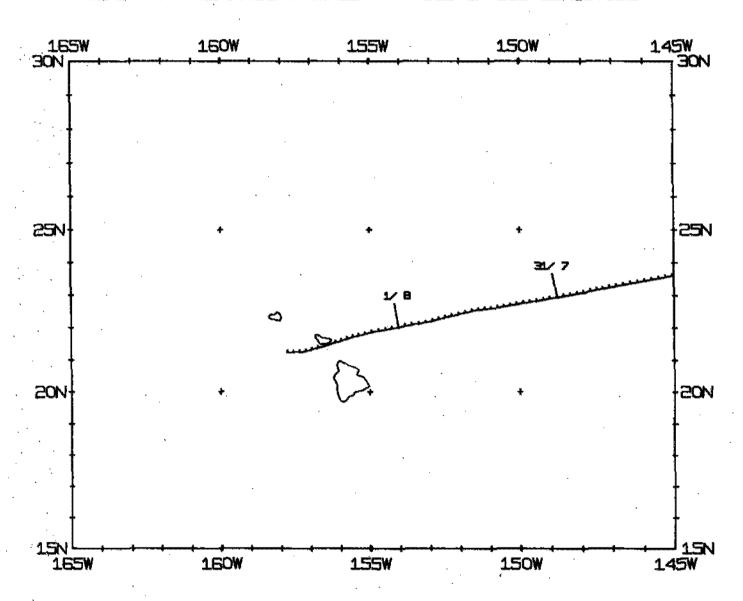
MARAOLWT TRACK PLOT (2 OF 3)

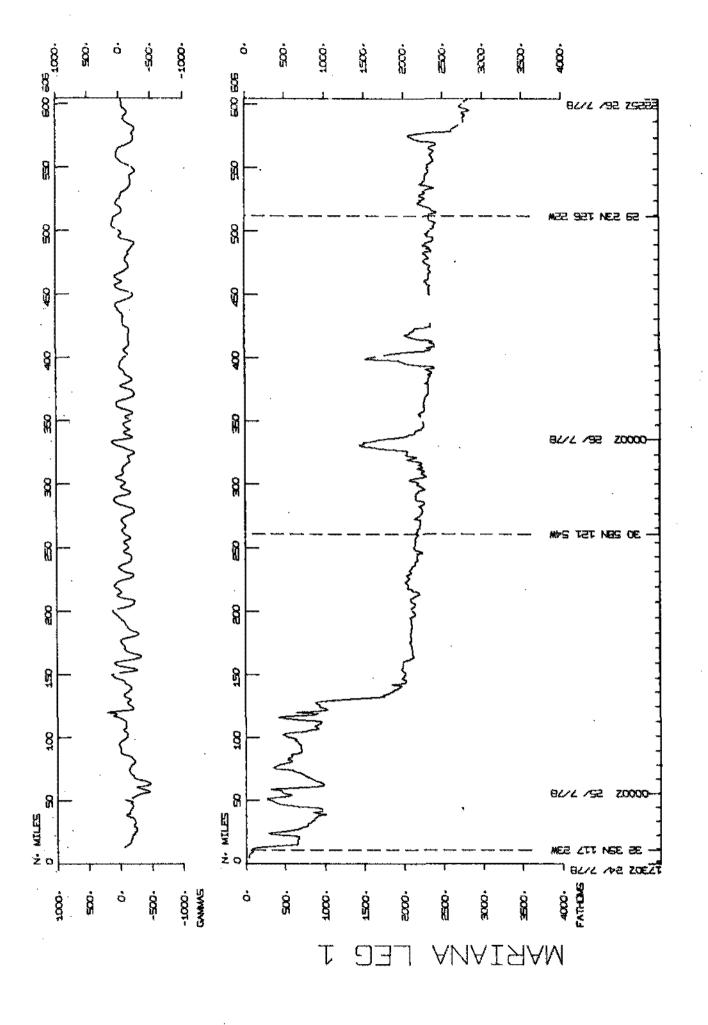
MERCATOR PROJECTION, SCALE: 0.312 IN/DEG LONGITUDE

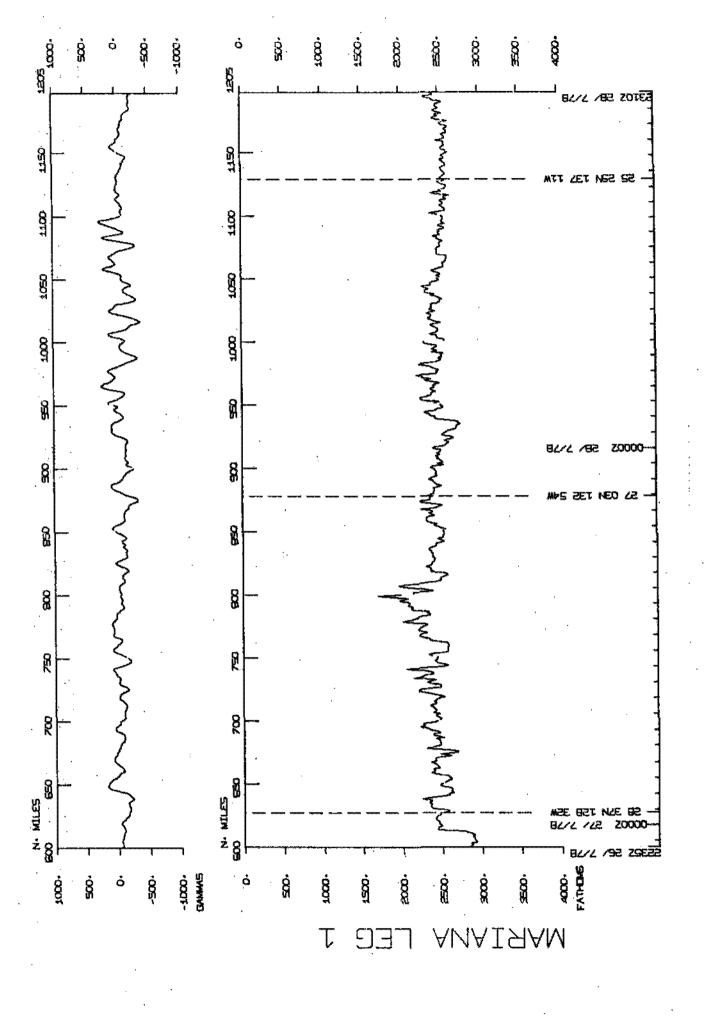


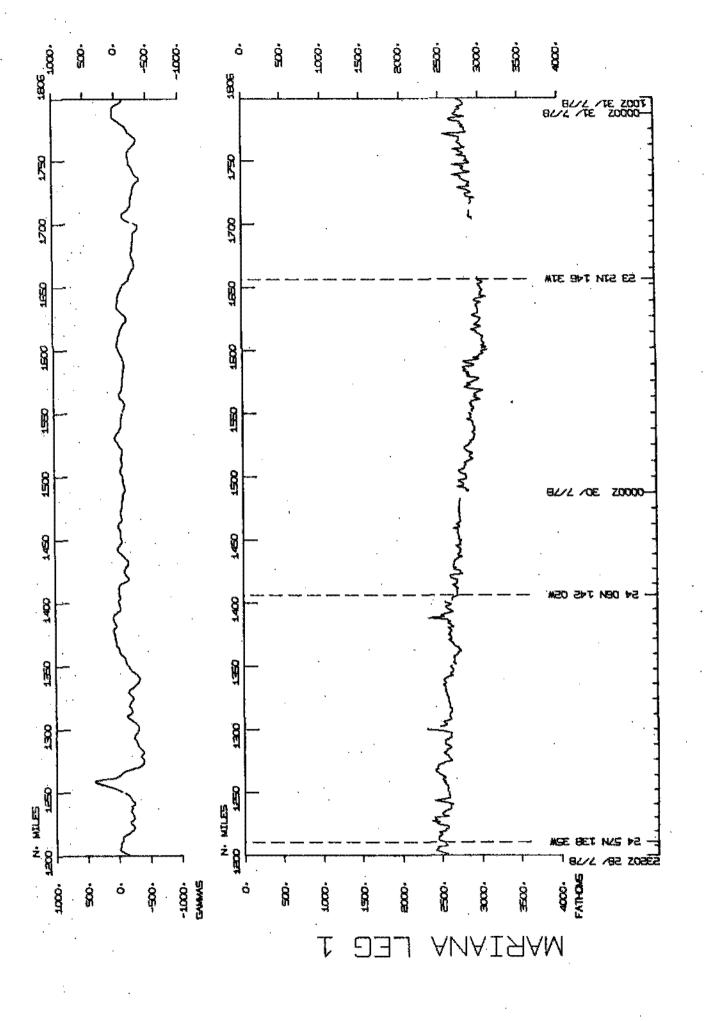
MARAO1WT TRACK PLOT (3 OF 3)

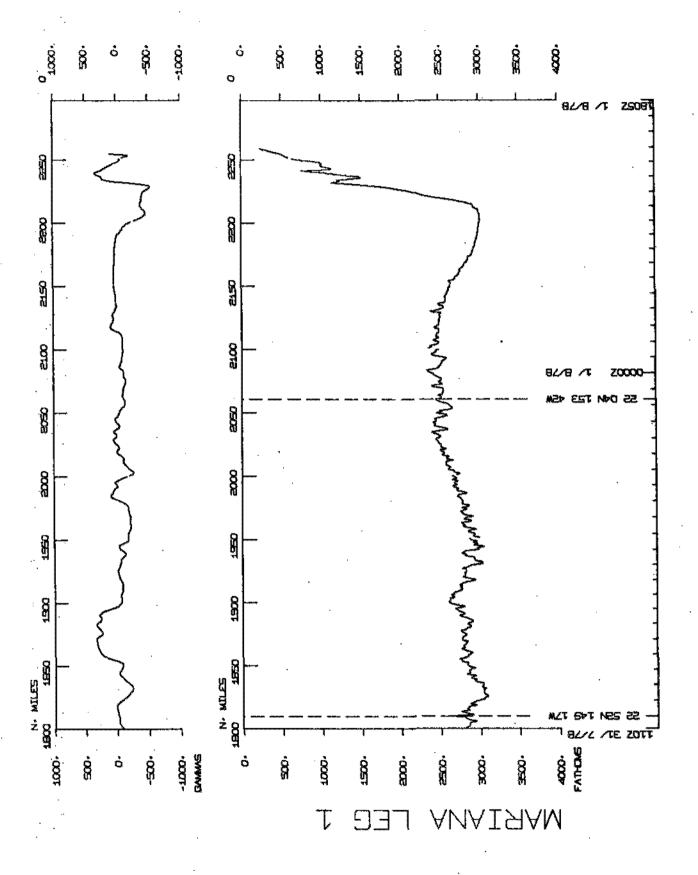
MERCATOR PROJECTION, SCALE: 0.312 IN/DEG LONGITUDE











*** MARAUIWT SAMPLE INDEX

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35N 11 00000 000000000 0 000000000 0 300000000	ON
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20N 0000000	ON
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24JUL78 - SAN DIEGO. CA.

OLAUG78 - HUNDLULU: HAWAll

CHIEF SCIENTIST - WILSON, K.

MTG

SHIP - R/V THUMAS WASHINGTON (SID)

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

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

DISP				TYP	Ŀ		T	OTAL	
		Đ٢	LB	MG	NV	PE			
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TATAL	1	4	1	2	4	13	1	24	

SAMPLE 'TYPE' CODES USED ABOVE

OP = DEPTH

LH = LDG BODKS

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

NV = NAVIGATION

PE = PERSONNEL IN SCIENTIFIC PARTY

SAMPLE 'DISP' CODES USED ABOVE

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

GRO = GEOLOGICAL RESEARCH DIVISION (FXT. 3360)

IMR = INSTITUTE MAKINE RESHURCES (FXT. 2866)

MTG = MARINE TECHNOLOGY GROUP (EXT 4194)

SEG = SHIPHOARD COMPUTER GROUP (FXT. 4195)

SIU = SCRIPPS INSTITUTION OF OCEANUGRAPHY, LA JOLLA. CAL. 92093

SIX = SCRIPPS INSTITUTION NON-EMPLOYEE - (CONTACT DIRCAS OTTER EXT. 2356)

*** PIRTS ***

1700 24 778 LEPT B SAN DIEGI, CA. 32 43 N 117 11 W F MARAQIWT 1810 1 878 LEPT E FONGLULU, HAWAII 21 18 N 157 52 W F MARAQIWT

***PERSONNEL ***

PECS	WILSON, R.	MTG	MAR AO 1 W T
PECT	MITORE, M.	SCG	MARAGINT
PE	AKSENAULT. B.	SIX	MAR AO 1WT
٧Ŀ	BUMGO, J.	SIX	MAKAUlwt
PE	BYRNE, B.	SIX	MAR AO 1WT
PES	FRANCIS, D.	GRD	MAR AO I WT
Pt:	MICHAEL. L.	SIX	MAR AO 1 WT
PE	MOORE, Č.	SIX	: MARAO LWT
۲Ł	MOTIRE, P.	SIX	mar ao 1 w t
PE	SHUTTS, G.	IMR	MAR AO 1 W T
PE	THOMAS, J.	\$10	MAR AO 1 WT
۲Ŀ	WARD, M.	SIX	MARAO1WT
Pt `	WILSON, P.	51X	MAR AO LWT

*** NOTE *** TIME ZONES AND MINUTES OF LATITUDE AND LONGITUDE ARE LISTED IN TENTHS (E.G. 10.6 IS LISTED AS 106)

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

UNDERNAY DATA CURATOR - STUART M. SMITH (EXT. 2752)

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*** LOG HOOKS	**				
1728 24 778 1500 1 878	LUUW H UNDERW LUUW E UNDERW	AY DATA LUG AY DATA LUG	GDC 32 4 GDC 21 1	16N 117 14 7UN 157 10	SW-S MARAOLWT UBW S MARAOLWT
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1930 24 778 55 26 778	DPR3 B UGR 3. UPR3 E UGR 3.	5KHZ R-01 5KHZ R-01			3W S MARADIWT
130 26 778 1040 31 778	OPR3 B UGR 3. DPR3 E UGR 3.	5KHZ R-02 5KHZ R-02			43w S MARAOINT 55w S MARAOIWT
1620 30 778 1807 30 778	OPR3 B GOR 3. OPR3 E GOR 3.	SKHZ R-ZA			13W S MARAOIWT 42W S MARAOIWT
1100 31 778 1500 1 878	OPR3 B UGR 3. OPR3 E UGR 3.	5KHZ R-03 5KHZ R-03			26W S MARAOLWT DBW S MARAOLWT
*** MAGNETUME	TER ***	·			٠.
2015 24 778 153 31 778	MGK & MAGNET MGR & MAGNET	ICS R-01 ICS R-01	GDC 32 3 GDC 22 5	35N 117 2 23N 149 1	73W S MARAOIWT 55W S MARAOIWT
200 31 778 1435 1 878	MGK B MAGNET MGK E MAGNET	ICS K-05	GDC 22 5 GDC 21 1		70W S MARADIWT 66W S MARADIWT
*** NAVIGATIO	IN PLOTS ***				
1330 24 778 1200 26 778	NVBP B BRIDGE NVBP E BRIDGE				49W S MARAOLWT 67W S MARAOLWT
1144 26 778 1218 28 778	NVBP B BRIDGE			_	33w S MARAOLWT 72w S MARAOLWT
1218 28 778 1200 30 778	WARE AKIDGE				72w S MARAOIWT 34w S MARAOIWT

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