

INFORMAL REPORT AND INDEX OF
NAVIGATION AND DEPTH DATA
(Issued February 1979)

MARIANA EXPEDITION

LEG 8

Agana, Guam (11 December 1979)
to
Agana, Guam (22 December 1978)
R/V T. Washington

Chief Scientist - A. Yayanos (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 OCE76-12017
Data Processing Funded by SIA, NSF and 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.

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

Contents:

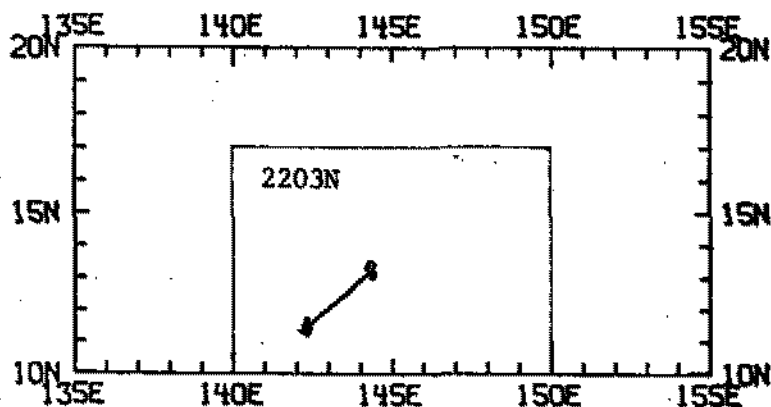
- Index Chart** - gives track of cruise leg and boundaries of depth compilation plots (see below).
- Track Charts** - annotated with dates (day/month) and hour ticks. The scale is .3"/deg. long.
- Profiles** - Depth and magnetic anomaly vs. distance. Dates (day/month) and positions of major course changes (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

* NO MAGNETIC DATA COLLECTED



MARIANA EXPEDITION LEG 8

Chief Scientist - A. Yayanos (SIO)

Ports - Agana, Guam to Agana, Guam

Dates - 12 November to 22 December 1978

Ship - R/V T. Washington

TOTAL MILEAGE

- 1) Cruise - 940 miles
- 2) Bathymetry - 190 miles
- 3) Magnetics - not collected
- 4) Seismic Reflection - not collected
- 5) Gravity - collected

140E
20N

145E

MARAOBWT TRACK PLOT (1 OF 1)

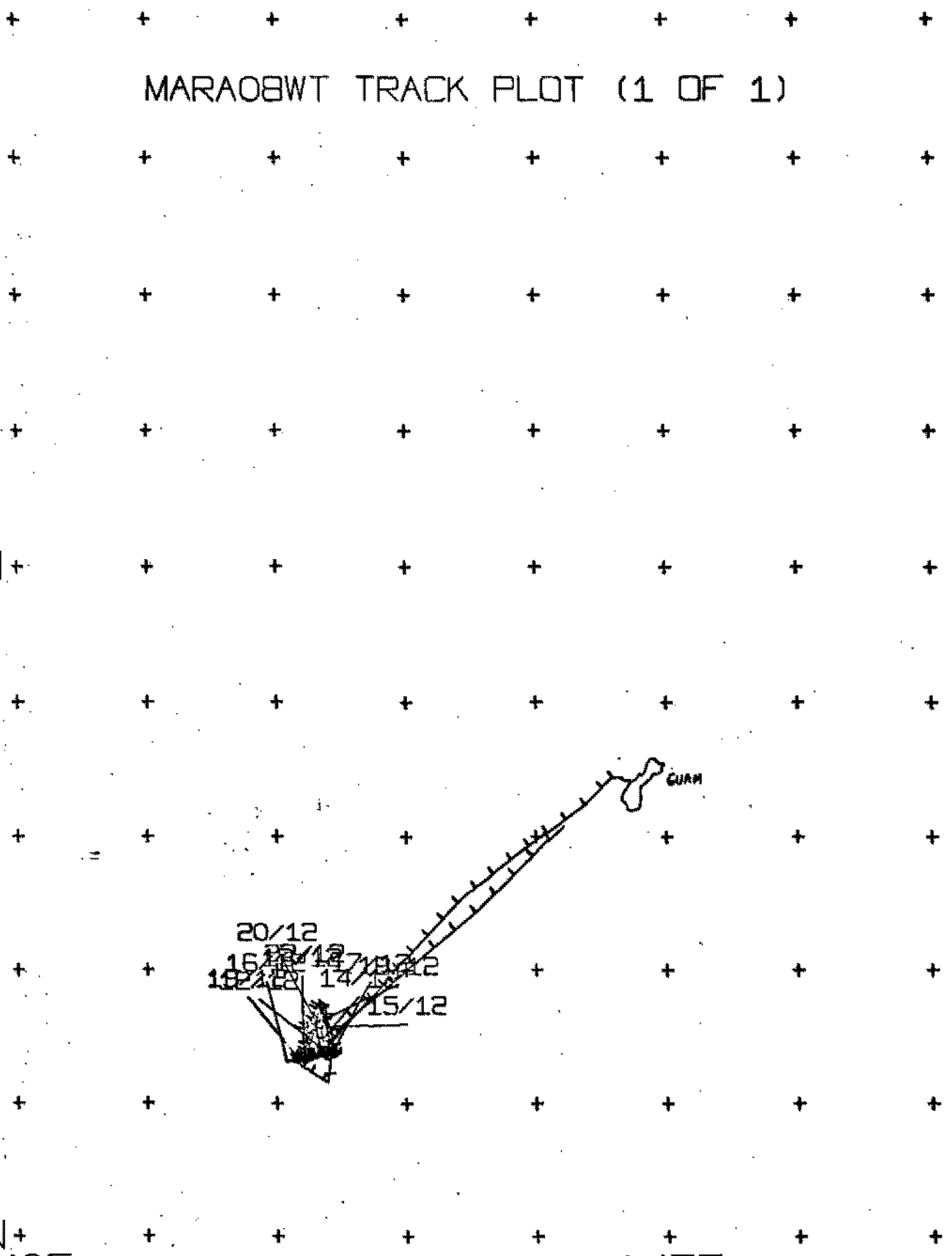
15N

GUAM

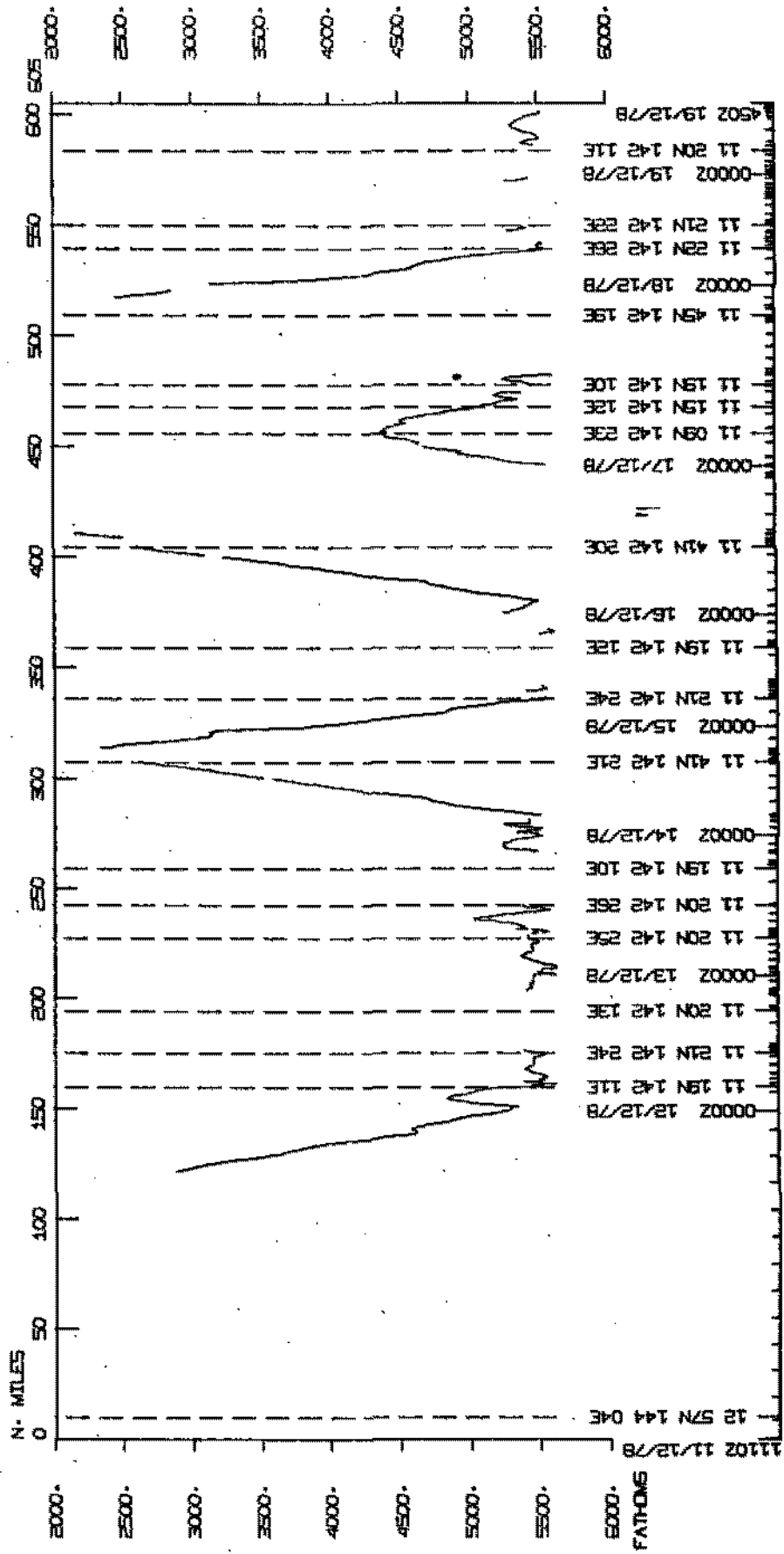
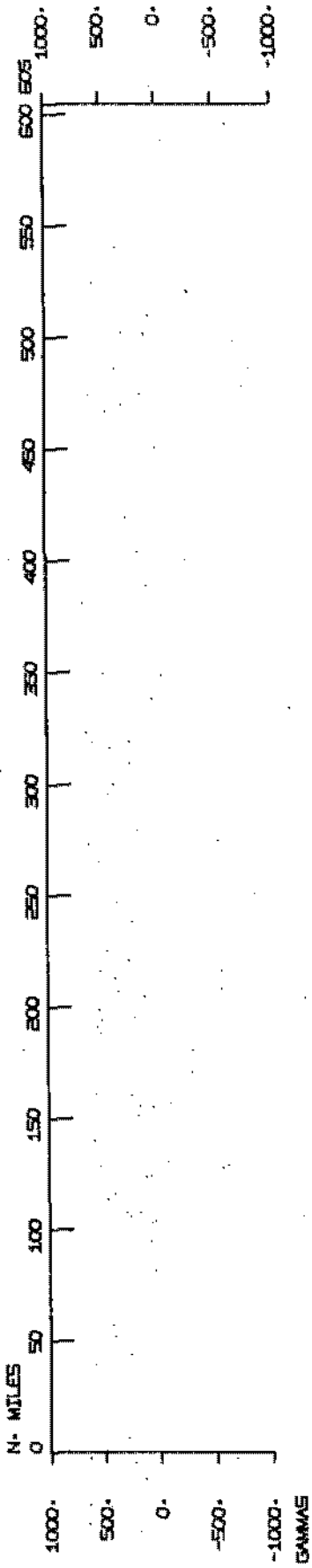
20/12
16/12
18/12
17/12
15/12

10N
140E

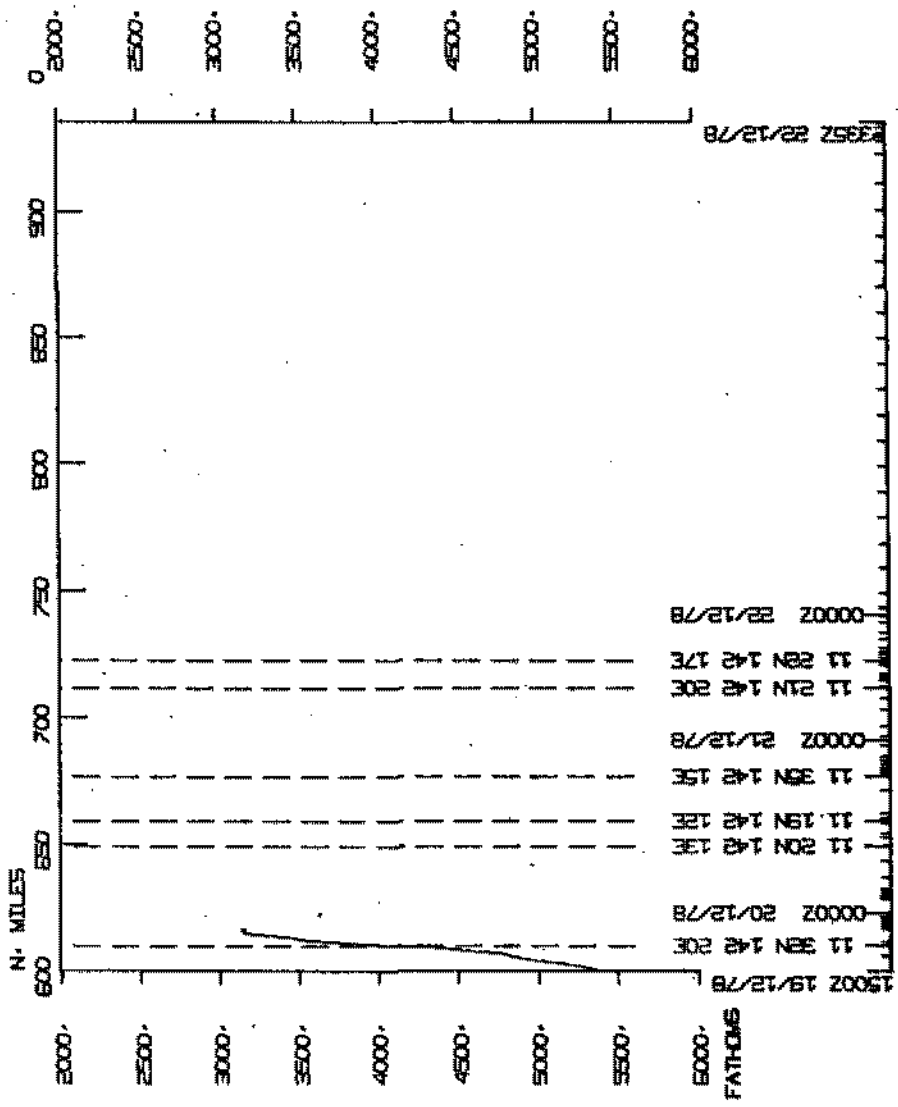
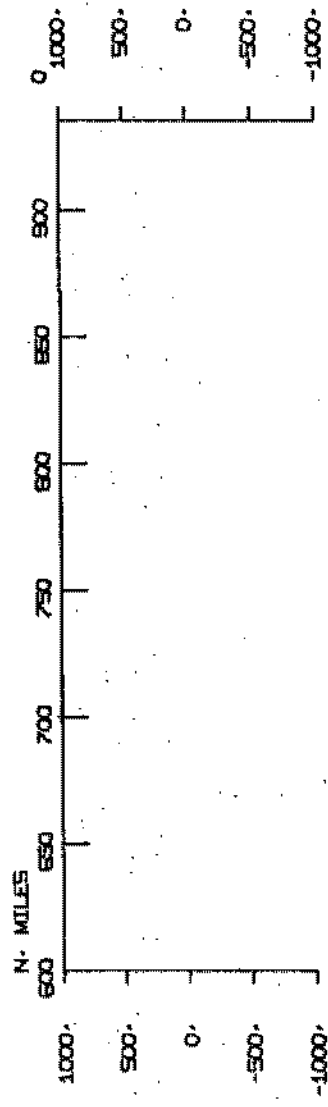
145E



MARIANA LEG B



MARIANA LEG 8



S.I.O. SAMPLE INDEX

(Issued March 1979)

MARIANA EXPEDITION

LEG 8

Agana, Guam (12 November 1979)

to

Agana, Guam (22 December 1979)

R/V T. Washington

Chief Scientist - A. Yayanos (SIO)

Resident Marine Tech - R. Wilson

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

DISP	TYPE								TOTAL
	DP	GV	HC	LH	PE	SL	TR		
GDC	1	2		1					3
IMR	1				1				1
LMD	1		1						1
MTG	1				1				1
PRL	1		5		5	1	16	1	27
SCG	1				1				1
TOTAL	1	2	1	5	1	8	16	1	34

SAMPLE 'TYPE' CODES USED ABOVE

DP = DEPTH
 GV = GRAVITY
 HC = HYDROGRAPHIC CAST
 LH = LOG BOOKS
 PE = PERSONNEL IN SCIENTIFIC PARTY
 SL = SET LINE
 TR = TRAP

SAMPLE 'DISP' CODES USED ABOVE

GDC = GEOLOGICAL DATA CENTER -- S. SMITH (EXT. 2752)
 IMR = INSTITUTE MARINE RESOURCES (EXT. 2866)
 LMD = LEROY M. DORMAN (EXT. 2406)
 MTG = MARINE TECHNOLOGY GROUP (EXT. 4194)
 PRL = PHYSIOLOGICAL RESEARCH LAB. (EXT. 2934)
 SCG = SHIPBOARD COMPUTER GROUP (EXT. 4195)

GMT D /M /Y TIME DATE	LOC LOC TIME TZ	CODE SAMP	SAMPLF IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
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MARIANA LEG 8 SAMPLE INDEX

MARA08WT

*** PORTS ***

0700 11/12/78			LGPT B AGANA, GUAM		13 27.0N	144 37.0E	F MARA08WT
0200 22/12/78			LGPT E AGANA, GUAM		13 27.0N	144 37.0E	F MARA08WT

PERSONNEL

*** NAME ***	*** TITLE ***	*** AFFILIATION ***
1 A. YAYANOS	CHIEF SCIENTIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
2 R. WILSON	RESIDENT TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
3 A. DIETZ	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
4 W. SCHEIDER		SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
5 J. NEVENZEL	RES. BIOCHEMIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
6 R. VAN BOXAL	S/RES. ASSOC.	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
7 M. OLSSON	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
8 R. MOE	COMPUTER TECH.	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093

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

GMT D /M /Y TIME DATE	LOC LOC TIME TZ	CODE SAMP	SAMPLF IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
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UNDERWAY DATA CURATOR - STUART M. SMITH (EXT.2752)

*** LOG BOOKS ***

0709 11/12/78		LBUW R	UNDERWAY LOG BOOK	GDC 13	04.9N	144 12.2E	S MARA08WT
0200 22/12/78		LBUW E	UNDERWAY LOG BOOK	GDC 11	21.0N	142 20.0E	S MARA08WT

*** FATHOGRAMS ***

2128 11/12/78		DPR3 R	UGR 3.5KHZ R-01	GDC 11	42.8N	142 39.2E	S MARA08WT
2247 15/12/78		DPR3 E	UGR 3.5KHZ R-01	GDC 11	19.6N	142 08.0E	S MARA08WT
2311 15/12/78		DPR3 R	UGR 3.5 KHZ R-02	GDC 11	19.2N	142 06.5E	S MARA08WT
0200 22/12/78		DPR3 E	UGR 3.5 KHZ R-02	GDC 11	21.0N	142 20.0E	S MARA08WT

GRAVIMETRIC RECORDS CURATOR L.M. DORMAN (EXT.2406)

0700 11/12/78		GVR R	GRAVITYMETER R-01	LMD 13	04.9N	144 12.2E	S MARA08WT
0200 22/12/78		GVR E	GRAVITYMETER R-01	LMD 11	21.0N	142 20.0E	S MARA08WT

TRAP

0256 12/12/78		TRVF R	PRAT 10684	PRL 11	20.1N	142 12.3E	S MARA08WT
2330 12/12/78		TRVF E	PRAT 10684	PRL 11	19.6N	142 11.2E	S MARA08WT
0701 12/12/78		TRVF R	TUBE 10476	PRL 11	20.4N	142 25.7E	S MARA08WT
0713 13/12/78		TRVF E	TUBE 10476	PRL 11	20.6N	142 25.2E	S MARA08WT
0232 13/12/78		TRVF R	PRAT 10927	PRL 11	20.0N	142 11.8E	S MARA08WT
0220 14/12/78		TRVF E	PRAT 10927	PRL 11	19.4N	142 10.7E	S MARA08WT
1002 13/12/78		TRVF R	TUBE 10455	PRL 11	22.8N	142 26.4E	S MARA08WT
0533 15/12/78		TRVF E	TUBE 10455	PRL 11	22.4N	142 26.2E	S MARA08WT
0450 14/12/78		TRVF R	PRAT 10688	PRL 11	19.9N	142 11.6E	S MARA08WT
2245 15/12/78		TRVF E	PRAT 10688	PRL 11	19.7N	142 08.1E	S MARA08WT
0829 15/12/78		TRVF R	PRAT 10803	PRL 11	22.2N	142 25.7E	S MARA08WT
2215 16/12/78		TRVF E	PRAT 10803	PRL 11	21.7N	142 25.0E	S MARA08WT
0124 16/12/78		TRVF R	PRAT 10684	PRL 11	19.9N	142 09.4E	S MARA08WT
0749 17/12/78		TRVF E	PRAT 10684	PRL 11	19.4N	142 09.9E	S MARA08WT
0830 16/12/78		TRVF R	TUBE 4730	PRL 11	42.2N	142 20.0E	S MARA08WT
2230 17/12/78		TRVF E	TUBE 4730	PRL 11	42.2N	142 19.4E	S MARA08WT
0110 16/12/78		TRVF R	PRAT 10767	PRL 11	19.9N	142 08.5E	S MARA08WT
0530 18/12/78		TRVF E	PRAT 10767	PRL 11	21.5N	142 25.2E	S MARA08WT

0530 18/12/78		TRVF E PRAT		10767	PRL 11 21.5N 142 25.2E S	MARA08WT	
					22FEB79 PAGE	3	
GMT D /M /Y	LOC LOC	CODE	SAMPLE IDENT.	CODE	LAT.	LONG.	LEG-SHIP
TIME DATE	TIME TZ	SAMP		DISP			CRUISE
1051 17/12/78		TRVF R PRAT	10906	PRL 11	19.8N	142 11.6E	S MARA08WT
0815 19/12/78		TRVF F PRAT	10906	PRL 11	19.6N	142 11.0E	S MARA08WT
0942 18/12/78		TRVF R PRAT	10653	PRL 11	21.9N	142 22.9E	S MARA08WT
1230 19/12/78		TRVF E PRAT	10653	PRL 11	21.7N	142 21.5E	S MARA08WT
1037 19/12/78		TRVF R PRAT	10916	PRL 11	20.0N	142 12.0E	S MARA08WT
0930 20/12/78		TRVF E PRAT	10916	PRL 11	19.4N	142 10.9E	S MARA08WT
1430 19/12/78		TRVF R PRAT	10592	PRL 11	21.3N	142 20.5E	S MARA08WT
0912 21/12/78		TRVF E PRAT	10592	PRL 11	21.0N	142 19.6E	S MARA08WT
0608 20/12/78		TRVF R TUBE	5671	PRL 11	36.2N	142 18.2E	S MARA08WT
0255 21/12/78		TRVF F TUBE	5671	PRL 11	36.1N	142 17.5E	S MARA08WT
1232 20/12/78		TRVF R PRAT	10747	PRL 11	19.8N	142 12.2E	S MARA08WT
2030 21/12/78		TRVF E PRAT	10747	PRL 11	19.8N	142 11.9E	S MARA08WT
1133 21/12/78		TRVF R PRAT	10697	PRL 11	21.6N	142 19.9E	S MARA08WT
0215 22/12/78		TRVF F PRAT	10697	PRL 11	21.2N	142 19.0E	S MARA08WT
SET LINE							
0918 14/12/78		SLVF R SET LINE	4943	PRL 11	41.6N	142 21.3E	S MARA08WT
0536 16/12/78		SLVF F SET LINE	4943	PRL 11	41.5N	142 20.9E	S MARA08WT
HYDROGRAPHIC CAST							
1130 14/12/78		HCNI BACTERIA	4624	PRL 11	42.5N	142 20.4E	S MARA08WT
1037 15/12/78		HCNI BACTERIA	5000	PRL 11	22.3N	142 25.3E	S MARA08WT
1036 16/12/78		HCNI BACTERIA	4000	PRL 11	44.1N	142 20.0E	S MARA08WT
1128 17/12/78		HCNI BACTERIA	1000	PRL 11	20.2N	142 11.7E	S MARA08WT
0229 20/12/78		HCNI BACTERIA	6076	PRL 11	37.4N	142 21.1E	S MARA08WT
9900		END SAMPLE INDEX					MARA08WT