

INFORMAL REPORT AND INDEX OF  
NAVIGATION AND DEPTH DATA

(Issued November 1979)

MARIANA EXPEDITION

LEG 12

Honolulu, Hawaii (6 August 1979)  
to  
Honolulu, Hawaii (3 September 1979)

R/V T. Washington

Chief Scientist - K. L. Smith (SIO)

Resident Marine Tech - R. Wilson

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

Data Collection funded by NSF

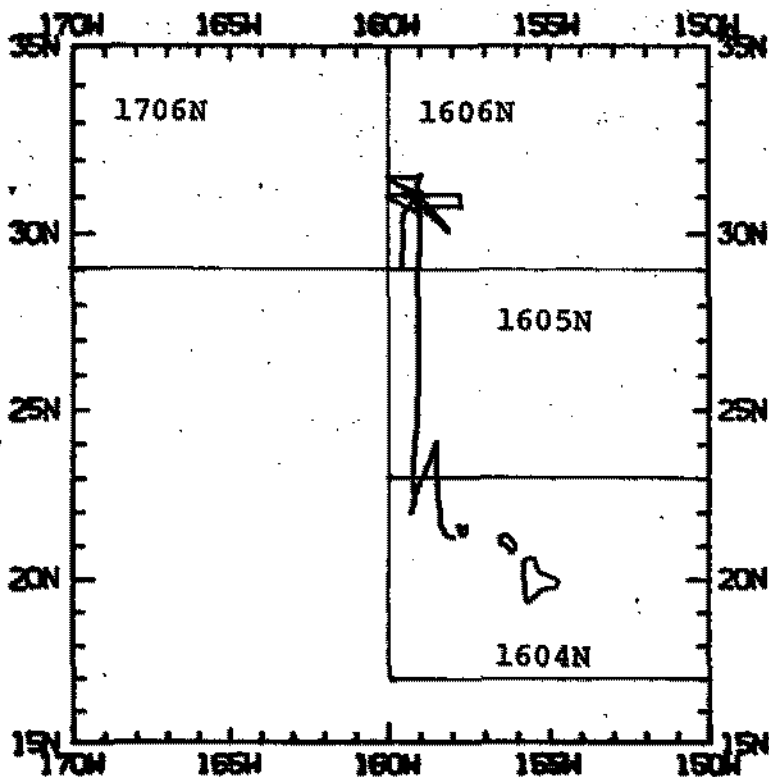
Grant Number OCE78-08640;

DOE-Sandia 13-2555

DOE-WHOI 8534

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 chief scientist or the Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093.



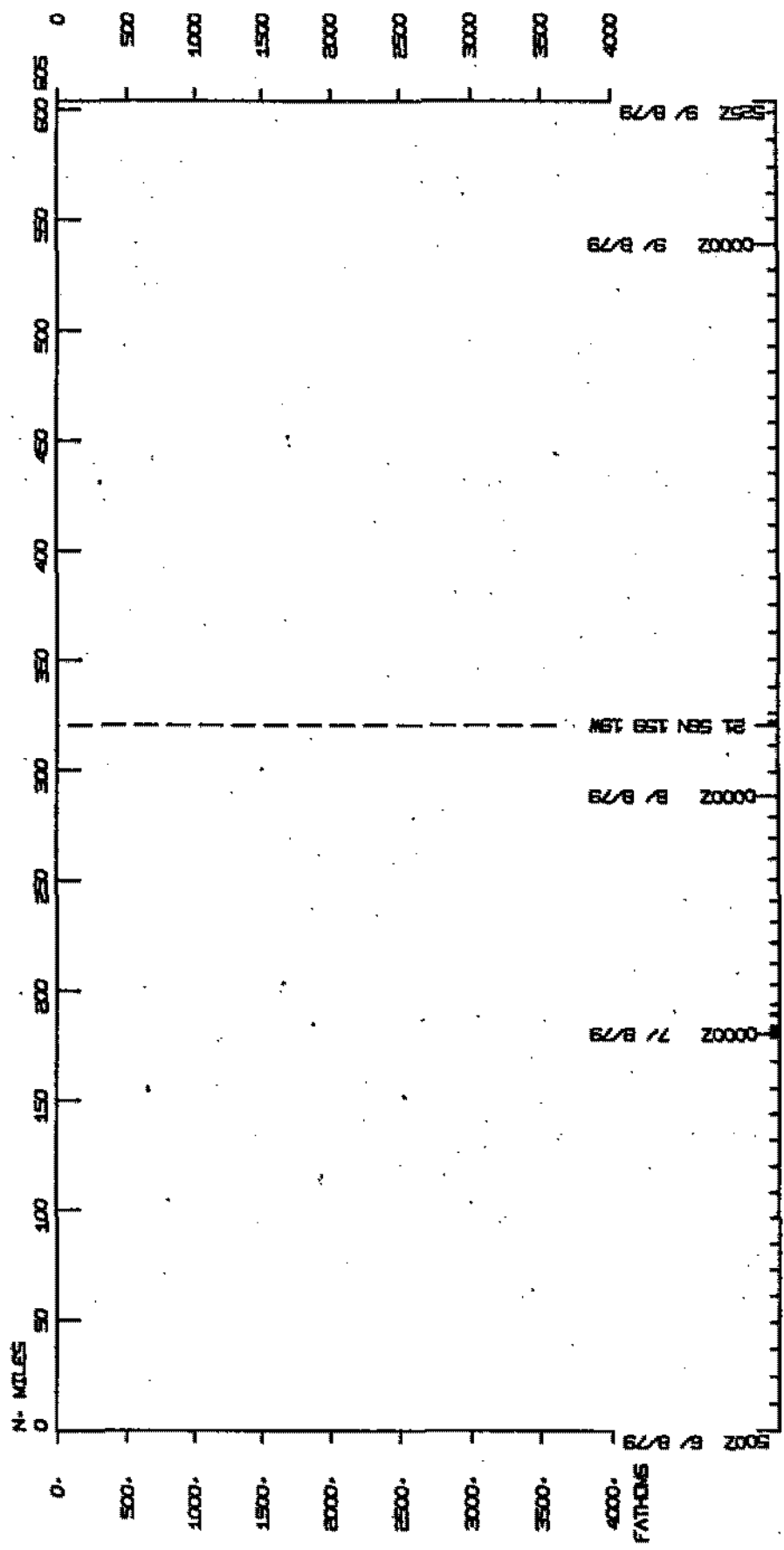
MARIANA EXPEDITION  
LEG 12

Chief Scientist - K. L. Smith (SIO)  
Ports - Honolulu to Honolulu, Hawaii  
Dates - 6 August to 3 September 1979  
Ship - R/V T. Washington

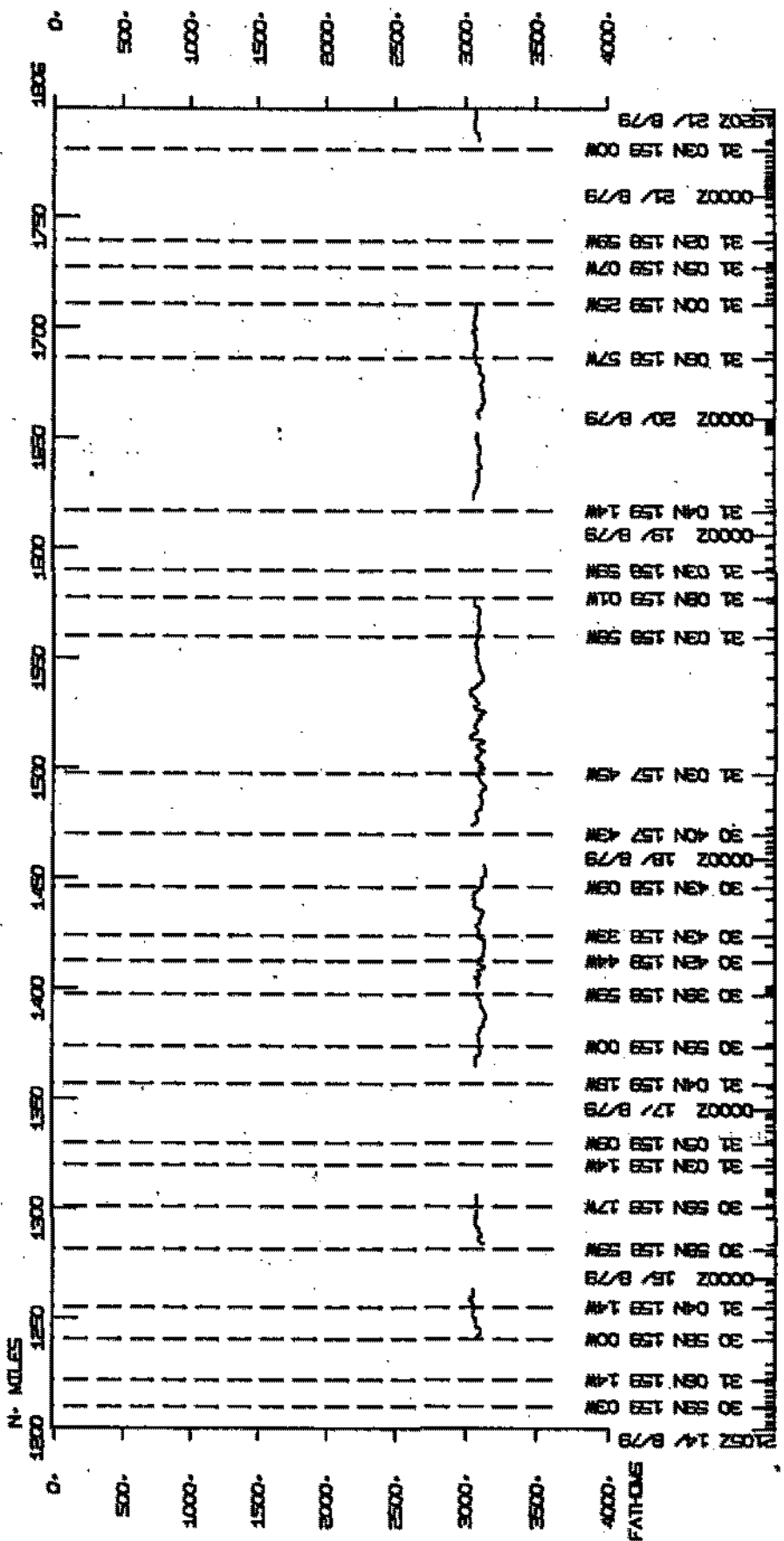
TOTAL MILEAGE

- 1) Cruise - 3287 miles
- 2) Bathymetry - 1084 miles
- 3) Magnetics - none collected
- 4) Seismic Reflection - none collected
- 5) Gravity - none collected

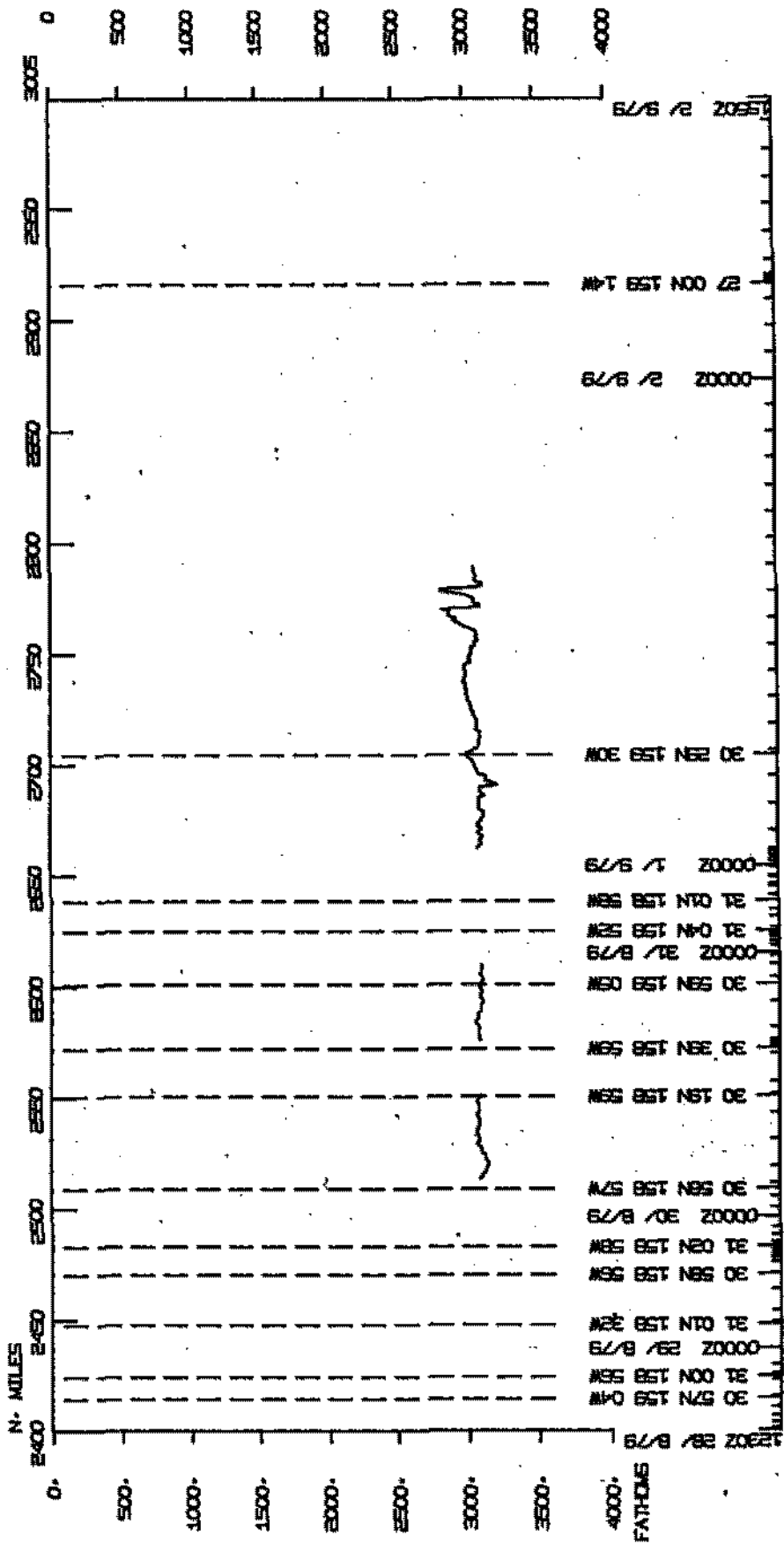
# MARAT2WT



MARAT2WT



# MARAT12WT



S.I.O. SAMPLE INDEX

(Issued November 1979)

MARIANA EXPEDITION

LEG 12

Honolulu, Hawaii (6 August 1979)  
to  
Honolulu, Hawaii (3 September 1979)

R/V T. Washington

Chief Scientist - K.L. Smith (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 OCE77-23704  
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.)

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.

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

DISP	TYPE																	TOTAL		
	BD	CA	CM	CO	DN	DP	DR	GB	GC	GD	HL	LB	PE	SL	TD	TM	TR			
GDC	I					3						1						I	4	
MBD	I	6			27			4			9	1	6	1				13	I	67
MTG	I												1						I	1
PCF	I												1						I	1
RRH	I		7	8								1						12	I	28
SCG	I												1						I	1
SIO	I												2						I	2
SIX	I		2		9		6		2			1	2						I	22
UCS	I												2				18		I	20
WHO	I								11	7		1	4			5			I	28
TOTAL	I	6	9	8	9	27	3	6	4	13	7	9	5	19	1	5	18	25	I	174

SAMPLE 'TYPE' CODES USED ABOVE

BD = BIOLOGICAL SAMPLE COLLECTED BY DIVER  
 CA = CAMERA  
 CM = CURRENT MEASUREMENT  
 CO = CORE  
 DN = DIP NET  
 DP = DEPTH  
 DR = DREDGE  
 GB = GRAB SAMPLE  
 GC = GEOCHEMICAL SAMPLING  
 GD = GEOLOGICAL SAMPLE  
 HL = HOOK AND LINE  
 LB = LOG BOOKS  
 PE = PERSONNEL IN SCIENTIFIC PARTY  
 SL = SET LINE  
 TD = SALINITY/TEMPERATURE/DEPTH (STD)  
 TM = MIDWATER TRAWL  
 TR = TRAP

SAMPLE 'DISP' CODES USED ABOVE

GDC = GEOLOGICAL DATA CENTER -- S. SMITH (EXT. 2752)  
 MBD = MARINE BIOLOGY RESEARCH DIVISION (EXT. 4245)  
 MTG = MARINE TECHNOLOGY GROUP (EXT. 4194)  
 PCF = PHYSICAL AND CHEMICAL DATA FACILITY (EXT. 2240)  
 RRH = ROBERT R. HESSLER (EXT. 2665)  
 SCG = SHIPBOARD COMPUTER GROUP (EXT. 4195)  
 SIO = SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CAL. 92093  
 SIX = SCRIPPS INSTITUTION NON-EMPLOYEE -(CONTACT DORCAS UTTER EXT. 2356)  
 UCS = UNIV. CALIF. SANTA BARBARA  
 WHO = WOODS HOLE OCEANOGRAPHIC INSTITUTION

GMT TIME	D / M / Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	02NOV79		PAGE LONG.	2 LEG-SHIP CRUISE
							LAT.	LONG.		

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

\*\*\* LOG BOOKS \*\*\*

2120	6/ 8/79			LBWU	B UNDERWAY WATCH	GDC 24	01.2N	158 29.9W	S MARA12WT
1700	1/ 9/79			LBWU	E UNDERWAY WATCH	GDC 29	04.6N	159 33.4W	S MARA12WT
0423	6/ 8/79			LBSC	B K. L. SMITH LAB	MBO 21	16.2N	157 57.2W	S MARA12WT
1645	3/ 9/79			LBSC	E K. L. SMITH LAB	MBO 21	15.0N	158 07.7W	S MARA12WT
0423	6/ 8/79			LBSC	B TALBERT SANDIA LABS	SIX 21	16.2N	157 57.2W	S MARA12WT
1645	3/ 9/79			LBSC	E TALBERT SANDIA LABS	SIX 21	15.0N	158 07.7W	S MARA12WT
0423	6/ 8/79			LBSC	B HESSLERS LAB	RRH 21	16.2N	157 57.2W	S MARA12WT
1645	3/ 9/79			LBSC	E HESSLERS LAB	RRH 21	15.0N	158 07.7W	S MARA12WT
0423	6/ 8/79			LBSC	B WOODSHOLE V.T. BOWEN	WHO 21	16.2N	157 57.2W	S MARA12WT
1645	3/ 9/79			LBSC	E WOODSHOLE V.T. BOWEN	WHO 21	15.0N	158 07.7W	S MARA12WT

\*\*\* FATHOGRAMS \*\*\*

10	6/ 8/79			DPR3	B UGR 3.5KHZ R-01	GDC 24	01.2N	158 29.9W	S MARA12WT
1623	10/ 8/79			DPR3	E UGR 3.5KHZ R-01	GDC 30	58.9N	159 02.8W	S MARA12WT
1633	10/ 8/79			DPR3	B UGR 3.5KHZ R-02	GDC 30	59.2N	159 02.6W	S MARA12WT
1700	24/ 8/79			DPR3	E UGR 3.5KHZ R-02	GDC 31	01.3N	159 02.2W	S MARA12WT
0637	25/ 8/79			DPR3	B UGR 3.5KHZ R-03	GDC 31	01.4N	158 59.1W	S MARA12WT
1702	1/ 9/79			DPR3	E UGR 3.5KHZ R-03	GDC 29	04.2N	159 33.4W	S MARA12WT

\*\*\* GRAVITY CORE \*\*\* SANDIA LABS

0546	10/ 8/79			COGV	MARA019	5889	SIX 30	53.6N	159 02.8W	S MARA12WT
0517	11/ 8/79			COGV	MARA020	5831	SIX 30	58.4N	159 00.5W	S MARA12WT
0627	13/ 8/79			COGV	MARA021	5839	SIX 31	00.4N	159 01.3W	S MARA12WT
0624	14/ 8/79			COGV	MARA022	5811	SIX 31	05.2N	159 03.5W	S MARA12WT
1403	16/ 8/79			COGV	MARA023	5823	SIX 30	60.0N	159 24.5W	S MARA12WT
0638	18/ 8/79			COGV	MARA024	5821	SIX 30	40.7N	157 44.1W	S MARA12WT
1104	22/ 8/79			COGV	MARA025	5582	SIX 31	32.4N	158 59.6W	S MARA12WT
1854	23/ 8/79			COGV	MARA026	5739	SIX 31	30.4N	160 01.0W	S MARA12WT
1155	26/ 8/79			COGV	MARA027	5705	SIX 31	00.5N	160 00.6W	S MARA12WT



GMT D /M /Y TIME DATE	LOC TIME T2	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
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## \*\*\*GRAB SAMPLE\*\*\*

1828 10/ 8/79			GBFF B	GRAB RESP. 5861	MBD 30	56.4N	158 58.5W	S MARA12WT
2217 14/ 8/79			GBFF E	GRAB RESP. 5861	MBD 30	56.6N	158 58.2W	S MARA12WT
2107 15/ 8/79			GBFF B	GRAB RESP. 5755	MBD 31	05.2N	159 11.4W	S MARA12WT
2241 20/ 8/79			GBFF E	GRAB RESP. 5755	MBD 31	05.0N	159 11.6W	S MARA12WT
2053 21/ 8/79			GBFF B	GRAB RESP. 5813	MBD 31	00.3N	159 21.5W	S MARA12WT
0156 27/ 8/79			GBFF E	GRAB RESP. 5813	MBD 31	00.3N	159 19.3W	S MARA12WT
1937 27/ 8/79			GBFF B	GRAB RESP. 5904	MBD 30	57.7N	158 58.3W	S MARA12WT
2106 31/ 8/79			GBFF E	GRAB RESP. 5904	MBD 30	57.5N	158 58.3W	S MARA12WT

## \*\*\* GEOLOGICAL SAMPLE \*\*\*

1145 10/ 8/79			Co GDXX	SPINCTER CORE	WHO 30	55.6N	159 03.1W	S MARA12WT
0230 13/ 8/79			GDXX	SPHINCTER CORE	WHO 30	58.4N	159 01.1W	S MARA12WT
1021 16/ 8/79			GDXX	SPHINCTER CORE	WHO 30	59.9N	159 24.7W	S MARA12WT
1545 22/ 8/79			GDXX	SPHINCTER CORER	WHO 31	27.5N	158 59.5W	S MARA12WT
2207 23/ 8/79			GDXX	SPHINCTER CORER	WHO 31	30.7N	160 00.1W	S MARA12WT
1338 25/ 8/79			GDXX	SPHINCTER CORER	WHO 31	00.4N	159 00.2W	S MARA12WT
1945 26/ 8/79			GDXX	SPHINCTER CORER	WHO 31	06.8N	159 26.8W	S MARA12WT
1215 31/ 8/79			GDXX	SPHINCTER CORER	WHO 31	04.1N	158 52.6W	S MARA12WT

## \*\*\* MIDWATER TRAWL \*\*\*

0912 11/ 8/79			TMRB B	H 250	UCS 30	57.5N	159 06.1W	S MARA12WT
1220 11/ 8/79			TMRB E	H 250	UCS 30	54.8N	159 13.8W	S MARA12WT
1250 11/ 8/79			TMRB B	H 250	UCS 30	54.3N	159 14.3W	S MARA12WT
1555 11/ 8/79			TMRB E	H 250	UCS 30	59.0N	159 07.8W	S MARA12WT
0910 13/ 8/79			TMRB B	H 150	UCS 31	01.1N	159 01.7W	S MARA12WT
1210 13/ 8/79			TMRB E	H 150	UCS 30	55.2N	159 02.4W	S MARA12WT
1217 13/ 8/79			TMRB B	O 250 150	UCS 30	55.3N	159 02.5W	S MARA12WT
1600 13/ 8/79			TMRB E	O 250 150	UCS 31	05.5N	159 03.6W	S MARA12WT
0900 13/ 8/79			TMRB B	H 300	UCS 31	01.2N	159 01.6W	S MARA12WT
1255 17/ 8/79			TMRB E	H 300	UCS 30	41.2N	158 59.9W	S MARA12WT
0325 14/ 8/79			TMRB B	H 100	UCS 31	00.8N	159 00.1W	S MARA12WT
1450 14/ 8/79			TMRB E	H 100	UCS 30	55.0N	158 60.0W	S MARA12WT
0911 14/ 8/79			TMRB B	O 300 250	UCS 31	05.0N	159 04.5W	S MARA12WT
1310 14/ 8/79			TMRB E	O 300 250	UCS 30	58.0N	159 01.3W	S MARA12WT
1325 15/ 8/79			TMRB B	H 125	UCS 31	06.3N	159 14.2W	S MARA12WT
1519 15/ 8/79			TMRB E	H 125	UCS 31	05.1N	159 09.2W	S MARA12WT

GMT TIME	D / M / Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
0048	19/ 8/79			TRFV B	ALPOLETRAP 5829	MBD 31	02.6N	159 09.4W	S MARA12WT
0004	25/ 8/79			TRFV E	ALPOLETRAP 5829	MBD 31	02.9N	159 09.5W	S MARA12WT
0227	22/ 8/79			TRFV B	HOOKS, TRAPS 5767	MBD 31	03.7N	159 14.8W	S MARA12WT
0421	28/ 8/79			TRFV E	HOOKS, TRAPS 5767	MBD 31	04.6N	159 14.8W	S MARA12WT
1926	24/ 8/79			TRFV B	CORELINER TRAP	MBD 30	58.9N	159 02.8W	S MARA12WT
1833	28/ 8/79			TRFV E	CORELINER TRAP	MBD 30	57.7N	159 03.1W	S MARA12WT
2030	24/ 8/79			TRXX B	SETTLING EXP.	MBD 31	00.2N	159 04.7W	S MARA12WT
0200	29/ 8/79			TRXX E	SETTLING EXP.	MBD 31	01.2N	158 31.8W	S MARA12WT
0235	25/ 8/79			TRFV B	ALPOLETRAP 5869	MBD 31	00.5N	158 56.0W	S MARA12WT
2120	28/ 8/79			TRFV E	ALPOLETRAP 5869	MBD 31	00.6N	158 56.6W	S MARA12WT
2100	28/ 8/79			TRFV B	VARIOUS TRAPS	MBD 31	00.5N	158 56.7W	S MARA12WT
2100	30/ 8/79			TRFV E	VARIOUS TRAPS	MBD 30	59.8N	159 02.6W	S MARA12WT
2204	28/ 8/79			TRFV B	VARIOUS 5867	MBD 31	00.8N	158 57.3W	S MARA12WT
2235	30/ 8/79			TRFV E	VARIOUS 5867	MBD 31	00.6N	158 57.8W	S MARA12WT
1544	10/ 8/79			TRFV B	H292 5825	RRH 30	57.1N	159 04.7W	S MARA12WT
1913	20/ 8/79			TRFV E	H292 5825	RRH 30	58.5N	159 03.5W	S MARA12WT
0035	15/ 8/79			TRFV B	H298 HOOPNET	RRH 30	57.2N	158 58.1W	S MARA12WT
0045	16/ 8/79			TRFV E	H298 HOOPNET	RRH 30	56.6N	158 58.9W	S MARA12WT
0235	17/ 8/79			TRFV B	H301 5786	RRH 31	04.1N	159 18.9W	S MARA12WT
0255	19/ 8/79			TRFV E	H301 5786	RRH 31	05.2N	159 19.2W	S MARA12WT
0042	21/ 8/79			TRFV B	H306 HOOPNET5758	RRH 31	02.9N	159 11.0W	S MARA12WT
0544	22/ 8/79			TRFV E	H306 HOOPNET5758	RRH 31	03.5N	159 09.8W	S MARA12WT
0116	21/ 8/79			TRFV B	H307 5790	RRH 31	02.8N	159 13.3W	S MARA12WT
0310	28/ 8/79			TRFV E	H307 5790	RRH 31	02.5N	159 13.1W	S MARA12WT
1726	21/ 8/79			TRFV B	H308	RRH 31	00.9N	159 02.4W	S MARA12WT
1716	24/ 8/79			TRFV E	H308	RRH 31	00.4N	159 00.2W	S MARA12WT
0056	26/ 8/79			TRFV B	H313 5855	RRH 31	00.2N	158 58.2W	S MARA12WT
1623	28/ 8/79			TRFV E	H313 5855	RRH 30	59.8N	158 58.8W	S MARA12WT
1124	27/ 8/79			TRFV B	H315 HOOPNET5807	RRH 31	04.2N	159 02.3W	S MARA12WT
0730	28/ 8/79			TRFV E	H315 HOOPNET5807	RRH 31	04.7N	159 02.7W	S MARA12WT
1904	28/ 8/79			TRFV B	H316 HOOPNET5869	RRH 30	57.6N	159 02.7W	S MARA12WT
0112	30/ 8/79			TRFV E	H316 HOOPNET5869	RRH 30	58.1N	159 03.1W	S MARA12WT
2135	29/ 8/79			TRFV B	H319 5810	RRH 31	03.6N	158 58.2W	S MARA12WT
1457	31/ 8/79			TRFV E	H319 5810	RRH 31	03.8N	158 58.4W	S MARA12WT

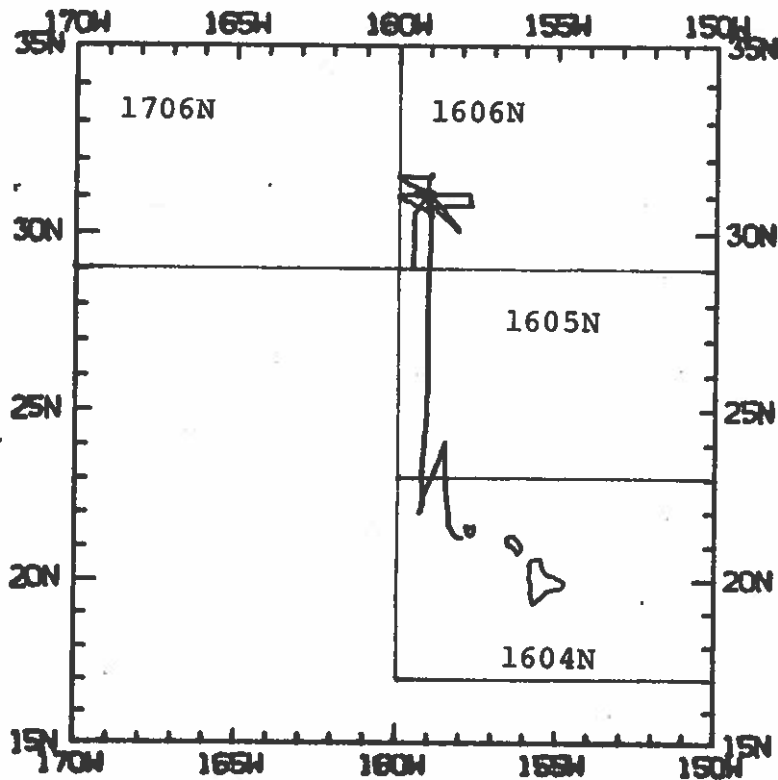
GMT TIME	D / M / Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	8 LEG-SHIP CRUISE
0830	19/ 8/79			GCLV B	LARGE VOLUME WATER	WHO 30	41.0N	159 00.8W	S MARA12WT
0015	20/ 8/79			GCLV E	LARGE VOLUME WATER	WHO 30	39.6N	158 58.3W	S MARA12WT
0100	21/ 8/79			GCXX B	INSITU PUMPS	WHO 31	02.9N	159 12.5W	S MARA12WT
0600	21/ 8/79			GCXX E	INSITU PUMPS	WHO 31	00.6N	159 13.3W	S MARA12WT
2245	22/ 8/79			GCLV B	LARGE VOLUME WATER	WHO 31	31.1N	159 00.1W	S MARA12WT
0545	23/ 8/79			GCLV E	LARGE VOLUME WATER	WHO 31	29.6N	159 01.6W	S MARA12WT
1200	27/ 8/79			GCXX B	INSITU PUMPS	WHO 31	04.2N	159 02.2W	S MARA12WT
1800	27/ 8/79			GCXX E	INSITU PUMPS	WHO 31	02.4N	158 57.7W	S MARA12WT
2330	31/ 8/79			GCXX B	PUMP-CAMERA TEST	WHO 31	01.5N	159 00.8W	S MARA12WT
0100	1/ 9/79			GCXX E	PUMP-CAMERA TEST	WHO 31	03.5N	159 01.3W	S MARA12WT
0400	2/ 9/79			GCLV B	LARGE VOLUME WATER	WHO 27	00.4N	159 14.7W	S MARA12WT
1000	2/ 9/79			GCLV E	LARGE VOLUME WATER	WHO 26	53.3N	159 15.3W	S MARA12WT
0423	6/ 8/79			GCXX C	SANDIA CORROSION VEH	SIX 21	16.2N	157 57.2W	S MARA12WT
1149	12/ 8/79			GCXX E	SANDIA CORROSION VEH	SIX 30	01.8N	158 06.8W	S MARA12WT
0423	6/ 8/79			GCXX C	SANDIA CORRISION VEH	SIX 21	16.2N	157 57.2W	S MARA12WT
0630	18/ 8/79			GCXX E	SANDIA CORRISION VEH	SIX 30	40.7N	157 44.2W	S MARA12WT

## \*\*\*SALINITY, TEMPERATURE, DEPTH\*\*\*

0220	11/ 8/79			TDCT B	1000M PROFILE	WHO 30	58.1N	158 59.9W	S MARA12WT
0300	11/ 8/79			TDCT E	1000M PROFILE	WHO 30	58.1N	159 00.1W	S MARA12WT
1613	13/ 8/79			TDCT B	5800M PROFILE	WHO 31	05.7N	159 03.7W	S MARA12WT
2324	13/ 8/79			TDCT E	5800M PROFILE	WHO 31	07.9N	159 04.8W	S MARA12WT
0535	23/ 8/79			TDCT B	5752M PROFILE	WHO 31	29.6N	159 01.5W	S MARA12WT
1250	23/ 8/79			TDCT E	5752M PROFILE	WHO 31	28.7N	159 01.7W	S MARA12WT
0005	24/ 8/79			TDCT B	5762M PROFILE	WHO 31	30.6N	159 59.8W	S MARA12WT
0620	24/ 8/79			TDCT E	5762M PROFILE	WHO 31	30.3N	160 00.7W	S MARA12WT
1145	30/ 8/79			TDCT B	5870M PROFILE	WHO 30	39.9N	158 59.1W	S MARA12WT
1900	30/ 8/79			TDCT E	5870M PROFILE	WHO 30	40.2N	159 04.9W	S MARA12WT

## \*\*\*BIOLOGICAL COLLECTION DIVE\*\*\*

0000	14/ 8/79			BDIV B	BIOLOGICAL DIVE	MBD 31	05.4N	158 58.6W	S MARA12WT
0100	14/ 8/79			BDIV E	BIOLOGICAL DIVE	MBD 31	04.6N	158 57.4W	S MARA12WT
0000	16/ 8/79			BDIV B	BIOLOGY DIVE	MBD 31	04.4N	159 13.0W	S MARA12WT
0100	16/ 8/79			BDIV E	BIOLOGY DIVE	MBD 31	04.5N	159 13.2W	S MARA12WT
2200	24/ 8/79			BDIV B	BIOLOGY DIVE	MBD 31	00.8N	159 05.1W	S MARA12WT
2330	24/ 8/79			BDIV E	BIOLOGY DIVE	MBD 31	02.5N	159 07.4W	S MARA12WT



MARIANA EXPEDITION  
LEG 12

Chief Scientist - K. L. Smith (SIO)  
Ports - Honolulu to Honolulu, Hawaii  
Dates - 6 August to 3 September 1979  
Ship - R/V T. Washington

TOTAL MILEAGE

- 1) Cruise - 3287 miles
- 2) Bathymetry - 1084 miles
- 3) Magnetics - none collected
- 4) Seismic Reflection - none collected
- 5) Gravity - none collected

MARIANA LEG 12 TRACK PLOT (1 OF 1)

MERCATOR PROJECTION, SCALE= 0.312 IN/DEG LONGITUDE

