

INFORMAL REPORT AND INDEX OF  
NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA  
(ISSUED JANUARY 1981)

RAMA EXPEDITION

LEG 6

Padang, Sumatra (30 September 1980)  
to  
Singapore (26 October 1980)

R/V Thomas Washington

Co-Chief Scientists - G. Moore and G. Shor (SIO)

Resident Marine Techs - R. Wilson and R. Comer

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

Data Collection Funded by NSF  
Grant Number OCE79-20482  
Data Processing Funded by SIA, NSF and CNR

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.

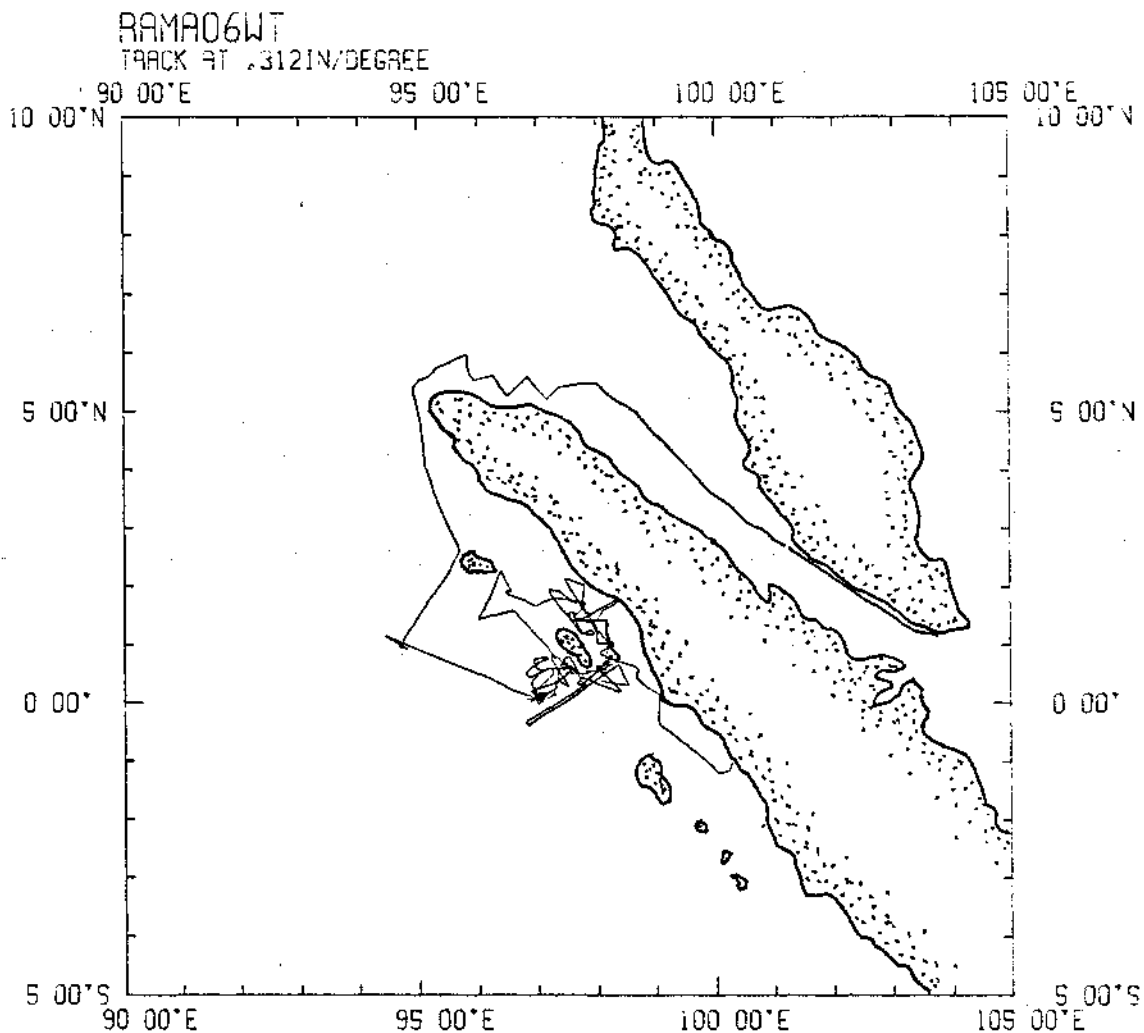
INFORMAL REPORT AND INDEX OF NAVIGATION, DEPTH, MAGNETIC  
AND SUBBOTTOM PROFILER DATA

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 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 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) or meters (assumed sound velocity of 1500m/sec) at approximately 1 mile spacing, plotted at 4in/degree with standard U. S. Navy Oceanographic Office BC series boundaries (see index chart).
3. Plots of magnetic anomaly profiles along track - map scale = 1.2inch/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 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



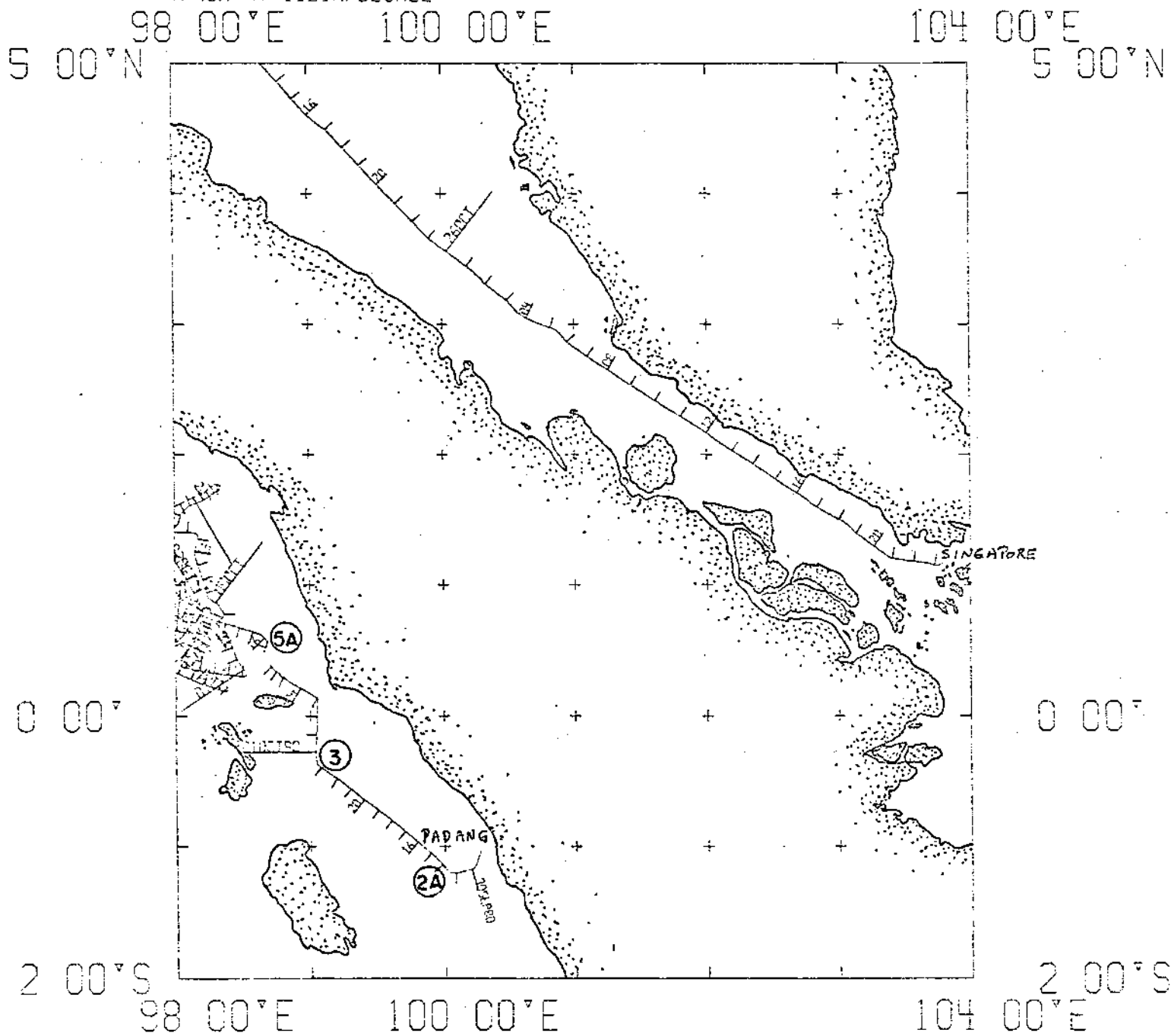
RAMA EXPEDITION  
 LEG 6

CO-CHIEF SCIENTISTS: G. Shor and G. Moore (SIO)  
 PORTS: Padang, Sumatra - Singapore  
 DATES: 30 September - 26 October 1980  
 SHIP: R/V T. Washington

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

- 1) Cruise - 3790 miles
- 2) Bathymetry - 3480 miles
- 3) Magnetics - 2411 miles
- 4) Seismic Reflection - 2635 miles
- 5) Gravity - 3790 miles (approximately)

RAMA06WT (PLOT 1 OF 2)  
TRACK AT 1.2IN/DEGREE



○ = Selected Designated Turning Points  
(See Sample Index for complete list.)

RAMPOWT (PLOT 2 OF 2)  
TRACK PLOT AT 1.2IN/DEGREE

94 00°E 85 00°E

99 00°E

7.00°N

7 00°N

5 00°N

5 00°N

0 00°

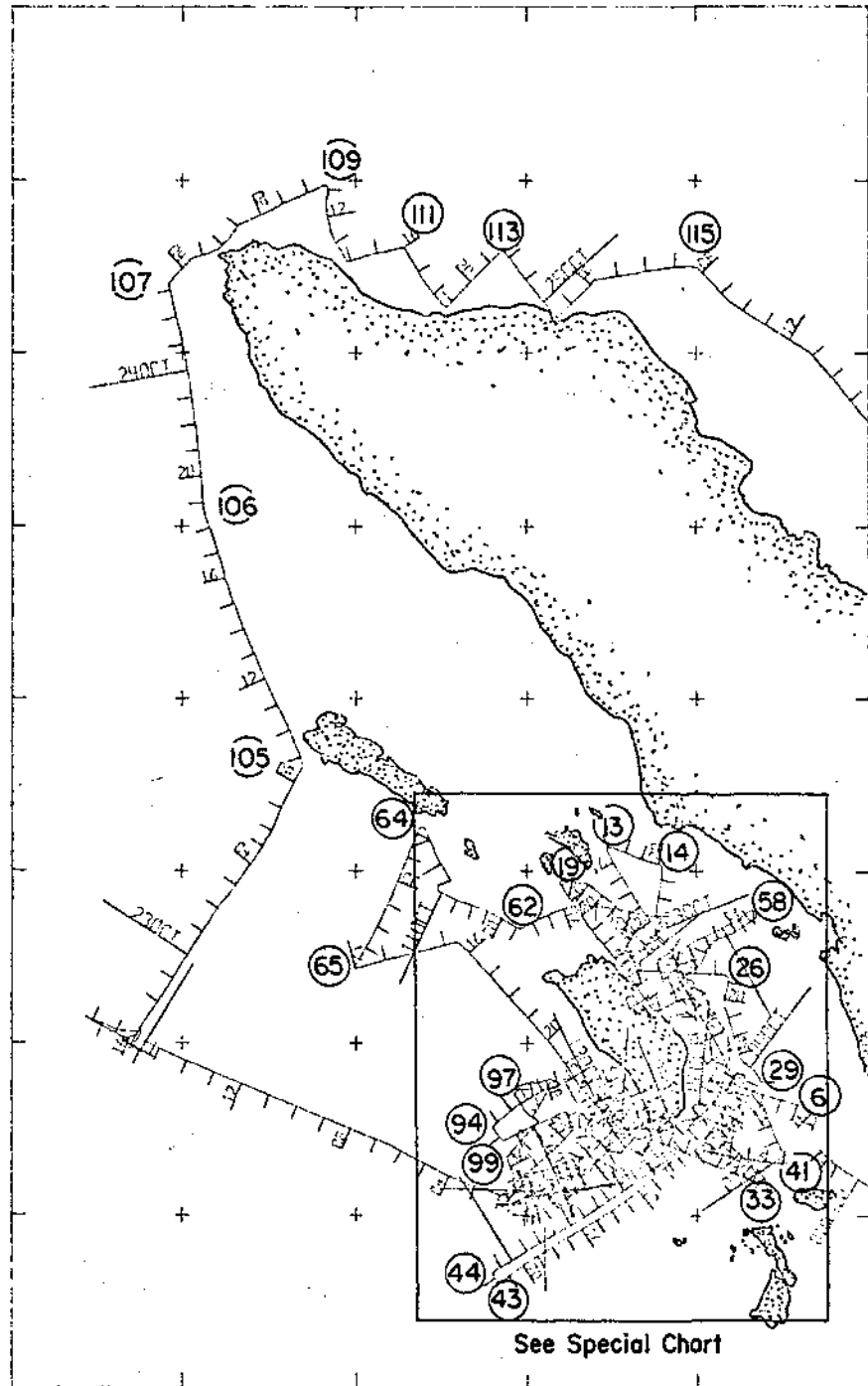
0 00°

1 00°S

1 00°S

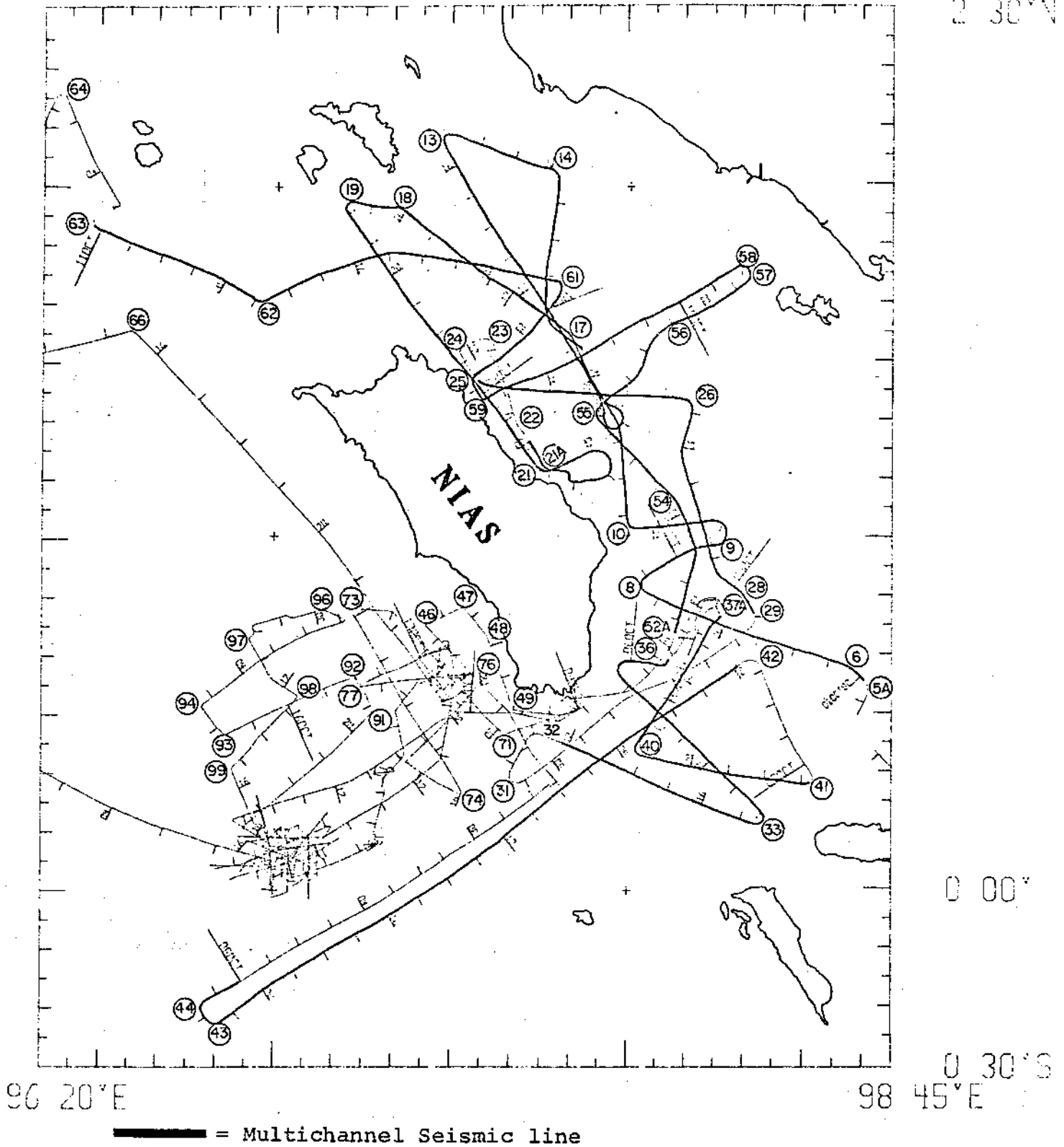
94 00°E 85 00°E

99 00°E



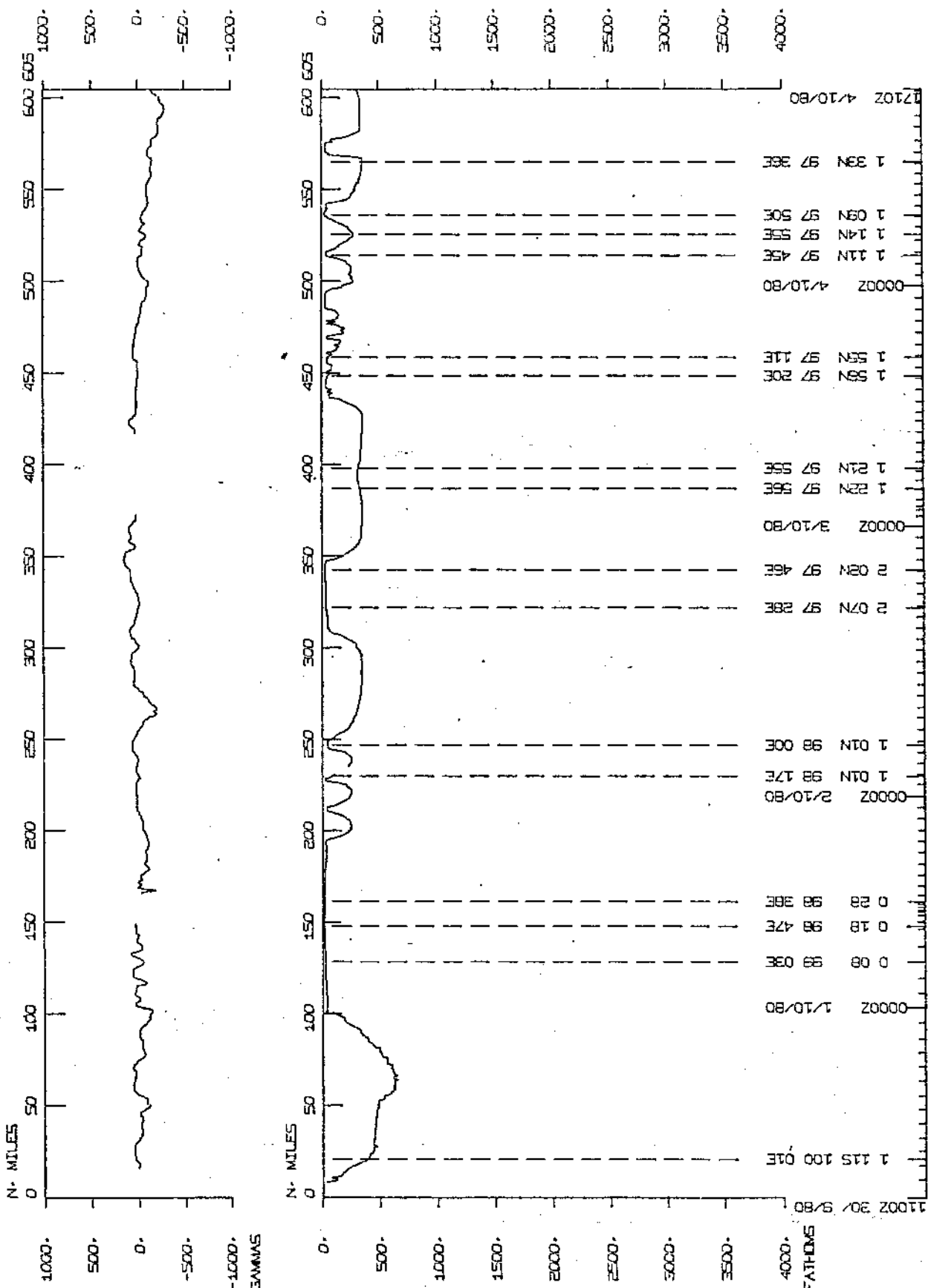
BANAGONT  
96 20°E

98 45°E  
2 30°N

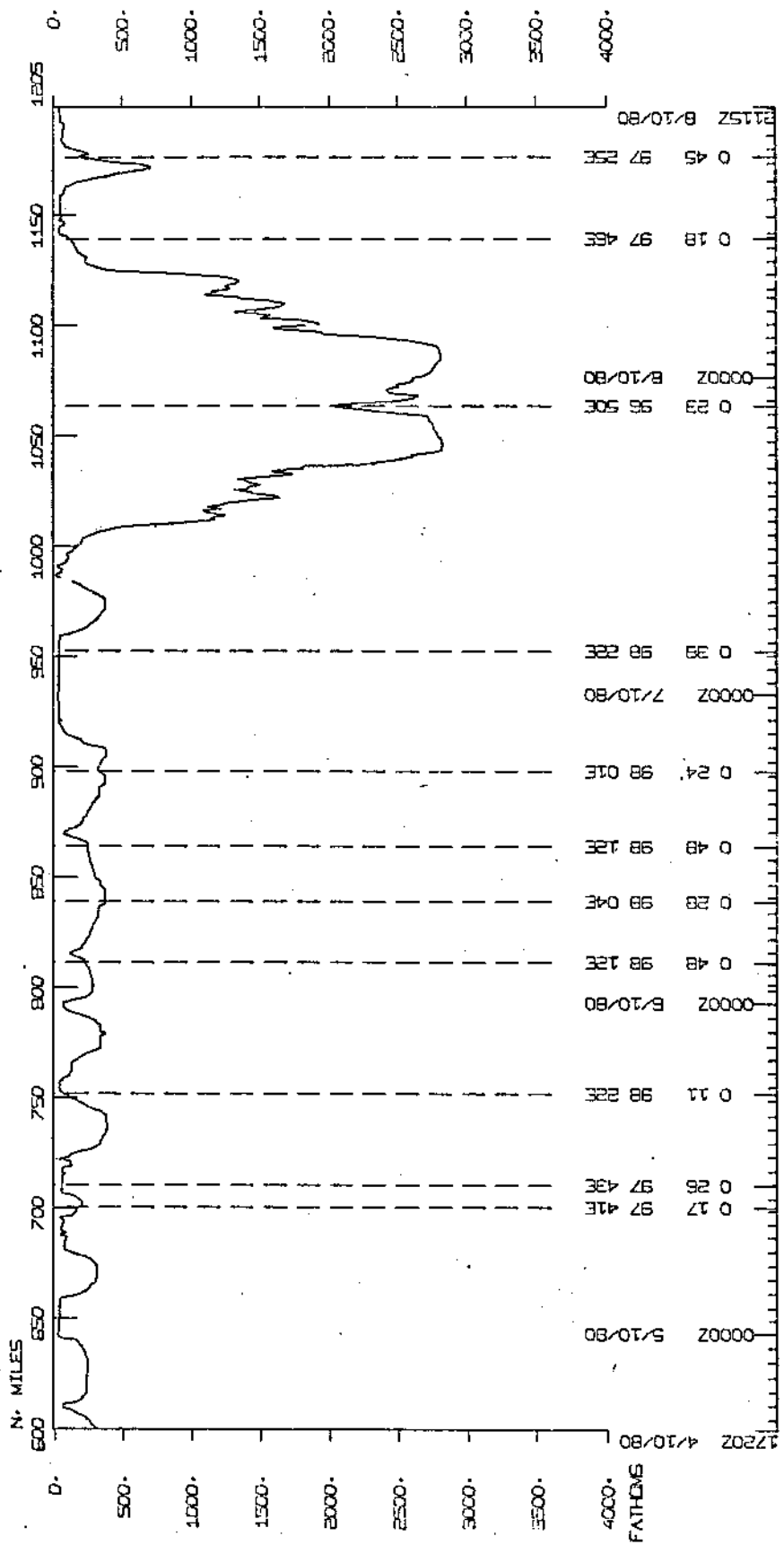
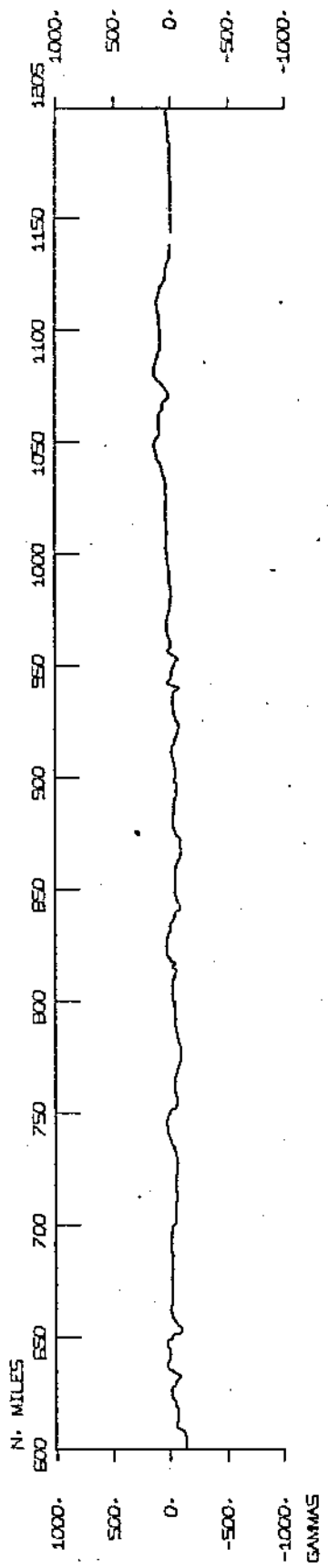


# RAMAQBWT

MULTICHANNEL



# RAMA03WT

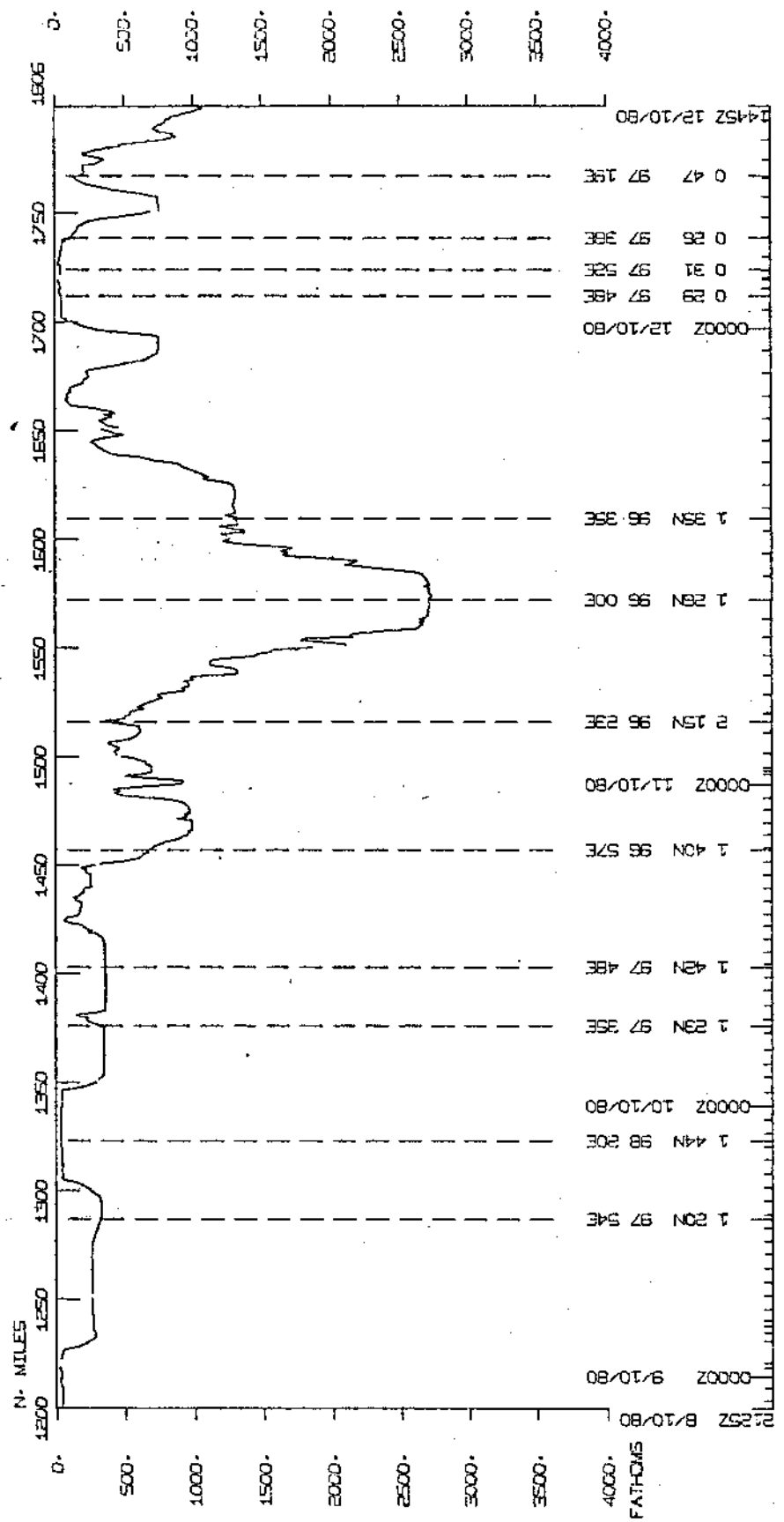
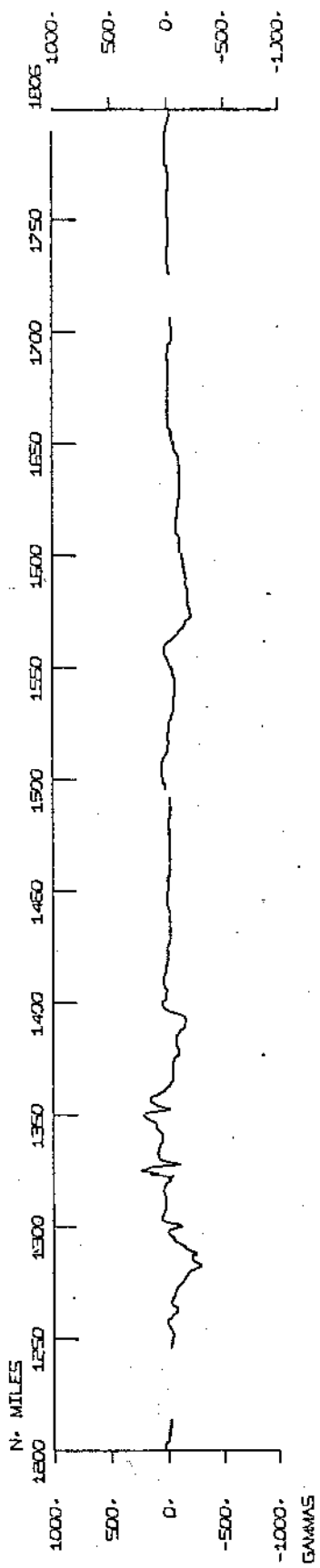


MULTICHANNEL

Time	Station
1220Z 4/10/80	0 27 97 ALE
	0 26 97 ABE
	0 11 98 RBE
0000Z 5/10/80	0 A8 98 ARE
	0 B3 98 QAE
	0 A8 98 ARE
0000Z 6/10/80	0 24 98 OLE
	0 38 98 RBE
0000Z 7/10/80	0 23 98 SOE
	0000Z 8/10/80
	0 18 97 ABE
	0 45 97 RBE
1215Z 8/10/80	

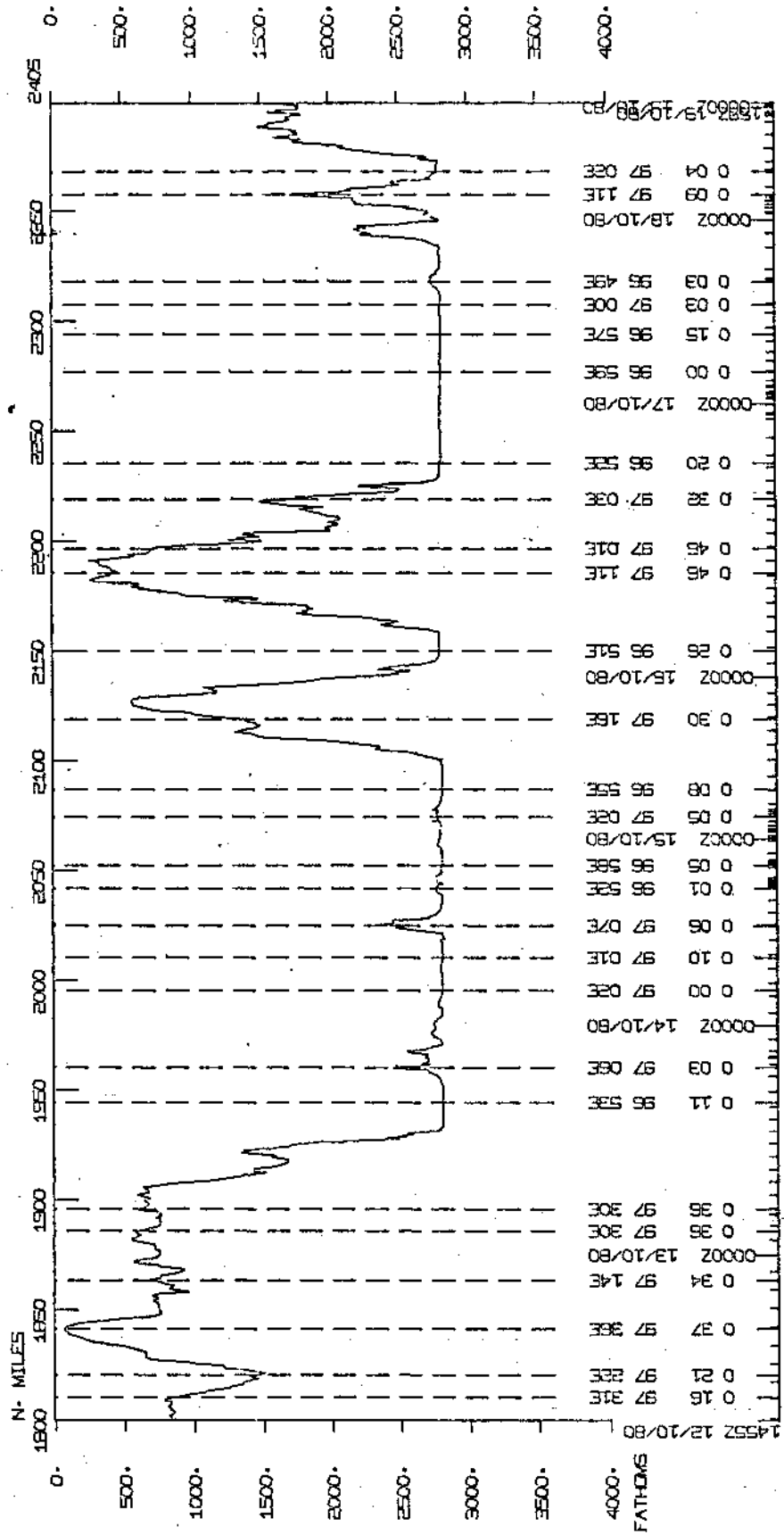
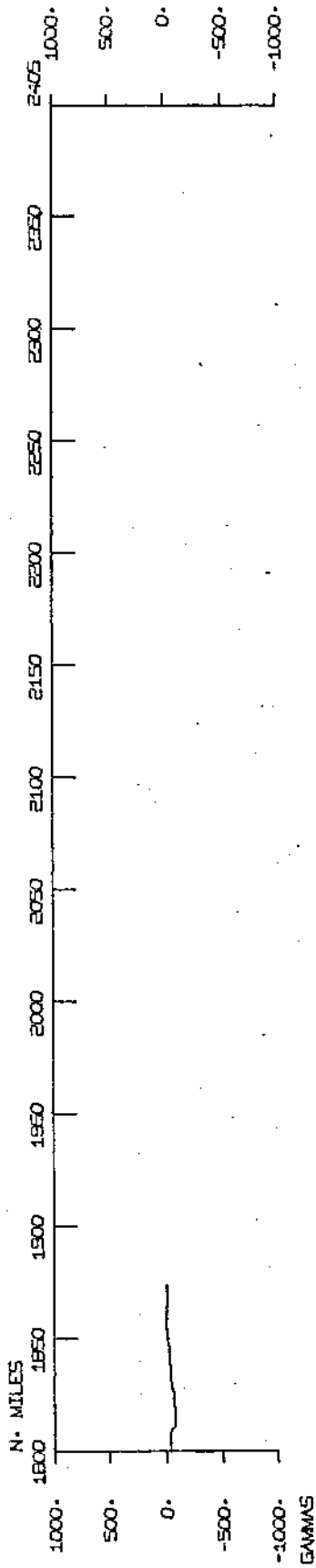


# RAMA05WT



MULTICHANNEL

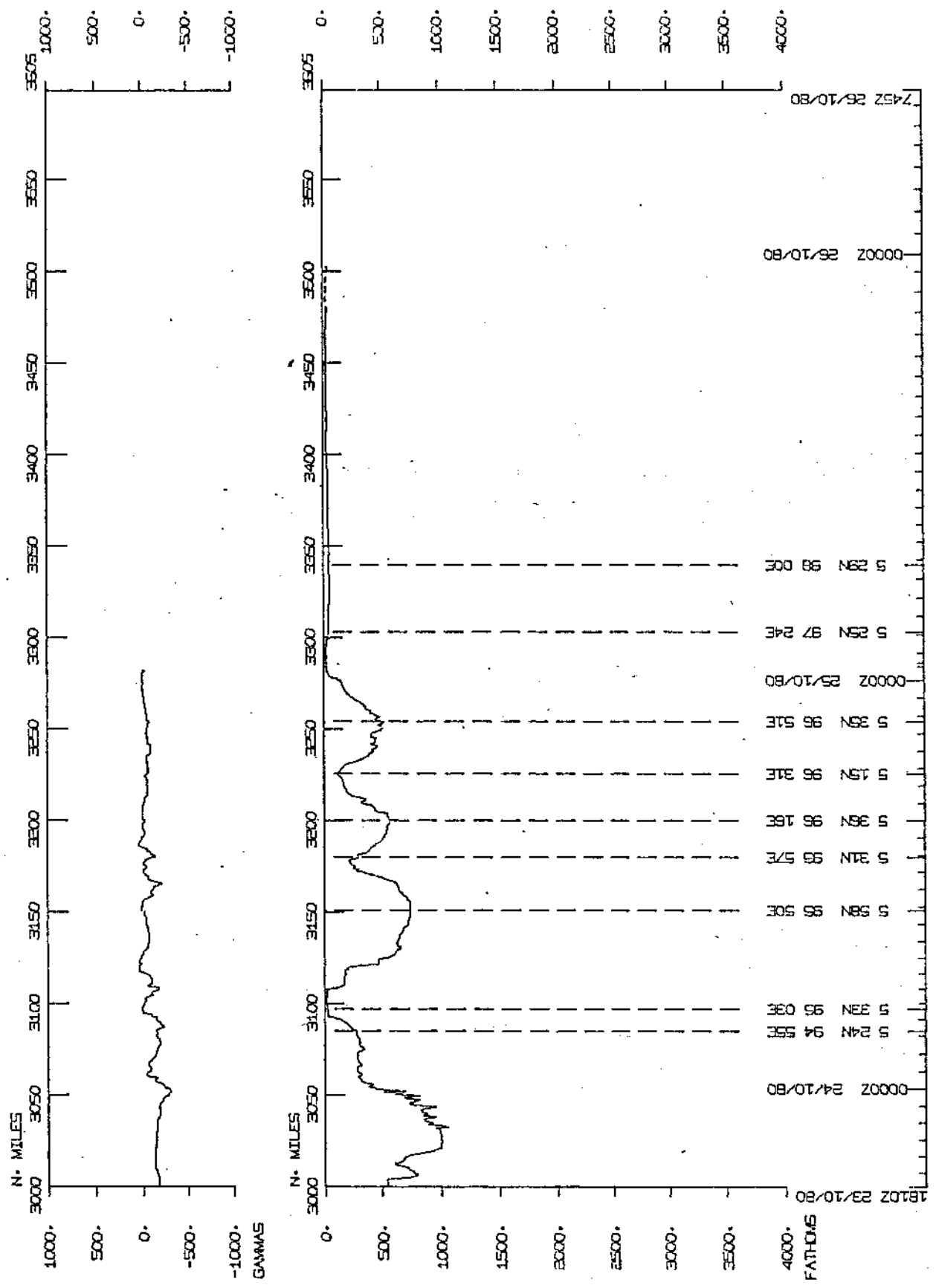
# RAMAQBWT



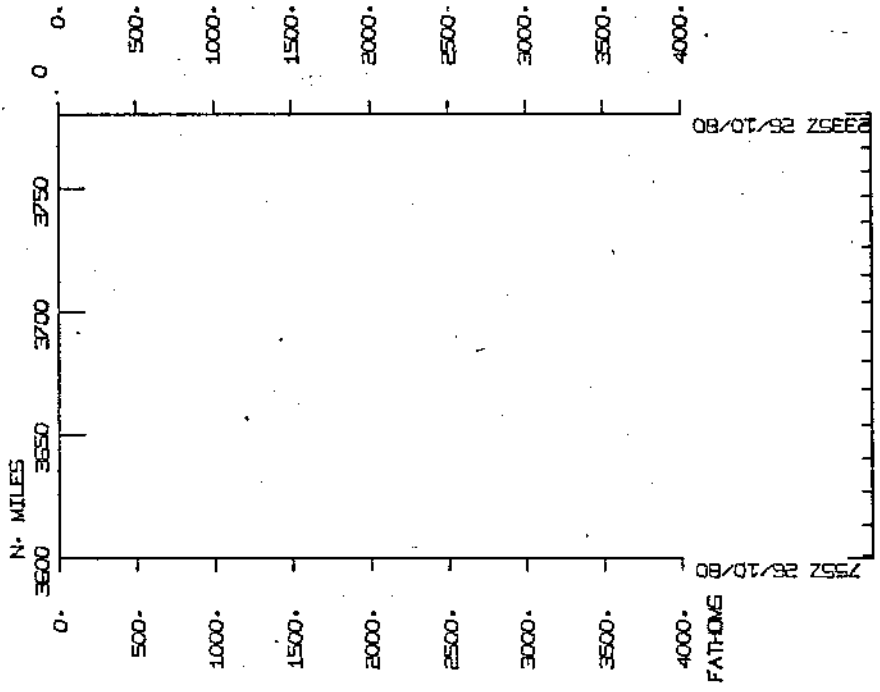
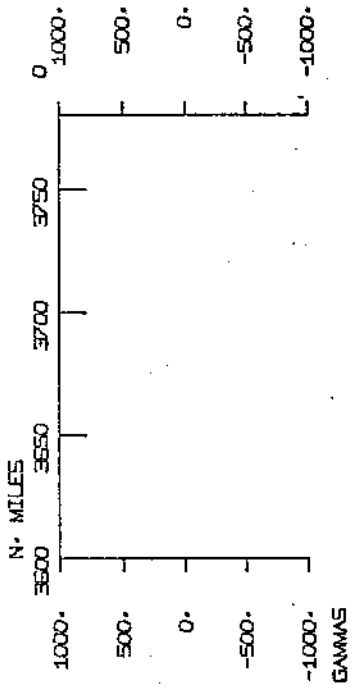
Date	Time
1455Z	12/10/80
0 16	97 31E
0 21	97 22E
0 27	97 36E
0 34	97 14E
0000Z	13/10/80
0 36	97 30E
0 36	97 30E
0 11	96 53E
0 09	97 06E
0000Z	14/10/80
0 00	97 02E
0 10	97 01E
0 06	97 07E
0 01	98 52E
0 05	96 58E
0000Z	15/10/80
0 05	97 02E
0 08	96 55E
0 30	97 16E
0000Z	16/10/80
0 26	96 51E
0 46	97 11E
0 46	97 01E
0 38	97 03E
0 20	96 52E
0000Z	17/10/80
0 00	96 59E
0 15	96 57E
0 03	97 00E
0 03	96 49E
0000Z	18/10/80
0 09	97 11E
0 04	97 02E
1500Z	19/10/80



# RAMAQBWT



# RAMA06WT



255Z 26/10/80  
2935Z 26/10/80

S.I.O. Sample Index  
(Issued January 1981)

RAMA EXPEDITION  
LEG 5

Padang, Sumatra (30 September 1980)  
to  
Singapore (26 October 1980)

R/V T. Washington

Co-Chief Scientists - G. Shor and G. Moore

Resident Marine Techs - R. Wilson and R. Comer

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

Index Encoding Funded by NSF  
Grant Number OCE77-23258  
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.)



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

DISP	TYPE														TOTAL
	BT	CO	DP	DR	GV	LB	MG	PE	SB	SN	SP	SR	TM		
CLU	1							3						I	3
GCR	1	13		5										I	18
GOC	1		37			3	3		10		37	50		I	140
GGG	1	8							6			8		I	22
GRD	1							6						I	6
IDO	1							1						I	1
LMD	1				2									I	2
MIC	1									8			1	I	9
MPL	1							3						I	3
MTG	1							2						I	2
SCG	1					1		2			1			I	4
SGG	1							2						I	2
SIO	1							1						I	1
SIX	1							2						I	2
TOTAL	I	8	13	37	5	2	4	3	22	16	8	38	58	I	215

SAMPLE 'TYPE' CODES USED ABOVE

- BT = BATHY THERMOGRAM
- CO = CORE
- DP = DEPTH
- DR = DREDGE
- GV = GRAVITY
- LB = LOG BOOKS
- MG = MAGNETICS (TOWED VEHICLE, SURFACE, TOTAL FIELD)
- PE = PERSONNEL IN SCIENTIFIC PARTY
- SB = SEISMIC BUOY
- SN = SURFACE NET
- SP = SEISMIC REFLECTION PROFILE AIRGUN
- SR = SEISMIC RUN
- TM = MIDWATER TRAWL

SAMPLE 'DISP' CODES USED ABOVE

- CLU = CORNELL UNIVERSITY, ITHACA, N.Y.
- GCR = GEOLOGICAL CURATING FACILITY -- W. RIEDEL, (EXT. 4386)
- GOC = GEOLOGICAL DATA CENTER -- S. SMITH (EXT. 2752)
- GGG = GEORGE SHOR (EXT. 2853)
- GRO = GEOLOGICAL RESEARCH DIVISION (EXT. 3360)
- IDO = INDONESIAN
- LMD = LEROY M. DORMAN (EXT. 2406)
- MIC = MARINE INVERTEBRATE CURATOR - A.FLEMINGER, (EXT. 2071)
- MPL = MARINE PHYSICAL LAB. (EXT 2305)
- MTG = MARINE TECHNOLOGY GROUP (EXT 4194)
- SCG = SHIPBOARD COMPUTER GROUP (EXT. 4195)
- SGG = SHIPBOARD GEOPHYSICAL GROUP--P. CRAMPTON (EXT.2079)
- SIO = SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CAL. 92093
- SIX = SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)



GMT D / M / Y TIME DATE	LOC LOC TIME TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
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## RAMA06WT SAMPLE INDEX

RAMA06WT

\*\*\* PORTS \*\*\*

1047 30/ 9/80		LGPT B	PADANG, SUMATRA	01 00.	S 100 22.	E F	RAMA06WT
0800 27/10/80		LGPT E	SINGAPORE	01 17.	N 103 51.	E F	RAMA06WT
0114 8/10/80		LGSS B	TELUK DALAM, NIAS	01 18.	S 97 36.	E F	RAMA06WT
0408 08/10/80		LGSS E	TELUK DALAM, NIAS	01 18.	S 97 36.	E F	RAMA06WT
0223 12/10/80		LGSS B	TELUK DALAM, NIAS	01 18.	S 97 36.	E F	RAMA06WT
0544 12/10/80		LGSS E	TELUK DALAM, NIAS	01 18.	S 97 36.	E F	RAMA06WT
0105 25/10/80		LGSS B	LOK SEUMAWA, SUMATRA	05 12.	N 97 11.	E F	RAMA06WT
0158 25/10/80		LGSS E	LOK SEUMAWA, SUMATRA	05 12.	N 97 11.	E F	RAMA06WT

\*\*\*PERSONNEL\*\*\*

*** NAME ***	*** TITLE ***	*** AFFILIATION ***
1 SHOR, G.G.	CHIEF SCIENTIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
2 MOORE, G.F.	CHIEF SCIENTIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
3 CURRAY, J.R.	PROFESSOR	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
4 KARIG, D.E.	PROFESSOR	CORNELL UNIVERSITY, ITHACA, N.Y.
5 MOORE, J.M.	PR PROGRAMMER	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
6 ELSTON, M.D.	DEV ENGR	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
7 COMER, R.L.	RESIDENT TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
8 WILSON, R.C.	RESIDENT TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
9 CRAMPTON, P.J.	DEV ENGR	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
10 HUBENKA, F.	ELECT TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
11 EMMEL, F.T.	SPECIALIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
12 BENSON, M.D.	DEV ENGR	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
13 SHOR, E.N.	SPECIALIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
14 MCGOWAN, D.D.	STAFF RES ASSOC	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
15 BEAUDRY, D.	GRAD STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
16 LIU, CHAR-SHINE	GRAD STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
17 HAECK, G.	STUDENT	CORNELL UNIVERSITY, ITHACA, N.Y.
18 BRAY, C.	STUDENT	CORNELL UNIVERSITY, ITHACA, N.Y.
19 BENARDON, N.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
20 DRIYO UTOMO	MAJOR IDO NAVY	INDONESIAN
21 HARDI PRHESTYO	GEOLOGIST	INDONESIAN
22 WAHYO HANTORO	GEOLOGIST	INDONESIAN
KEIKER, R.		GOLF OIL, PITTSBURGH

\*\*\*NOTES\*\*\* AN 'X' IN THE (B)EGIN/(E)ND COLUMN FOLLOWING THE SAMPLE CODE INDICATES NO SAMPLE OR DATA RECOVERED .  
 A 'C' INDICATES CONTINUATION OF DATA COLLECTION FROM BEFORE THE BEGINNING OR AFTER THE END OF THIS LEG.  
 (MOORED BOTTOM INSTRUMENTS, FOR EXAMPLE).  
 THE NUMBER APPEARING IN THE COLUMNS BETWEEN THE SAMPLE IDENTIFIER AND THE DISPOSITION CODE, FOR MANY SAMPLE ENTRIES, IS THE WATER DEPTH IN CORRECTED METERS.

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

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UNDERWAY DATA CURATOR - STUART SMITH (EXT.2752)

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

1150	30/ 9/80		LBUW B UNDERWAY WATCH LOG 1	GDC 01	09.9S	100 13.5E	S RAMA06WT
1400	6/10/80		LBUW E UNDERWAY WATCH LOG 1	GDC 00	47.4N	98 16.3E	S RAMA06WT
1410	6/10/80		LBUW B UNDERWAY WATCH LOG 2	GDC 00	46.4N	98 15.8E	S RAMA06WT
1600	18/10/80		LBUW E UNDERWAY WATCH LOG 2	GDC 00	01.9N	97 03.4E	S RAMA06WT
1605	18/10/80		LBUW B UNDERWAY WATCH LOG 3	GDC 00	02.1N	97 03.9E	S RAMA06WT
2330	25/10/80		LBUW E UNDERWAY WATCH LOG 3	GDC 03	36.2N	99 58.3E	S RAMA06WT
1334	30/ 9/80		LBSC B DIGIT.SEIS. TAPE LOG	SCG 01	10.7S	100 00.9E	S RAMA06WT
0038	25/10/80		LBSC E DIGIT.SEIS. TAPE LOG	SCG 05	13.6N	97 10.1E	S RAMA06WT

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

1144	30/ 9/80		DPR3 B UGR 3.5KHZ R-01	GDC 01	09.0S	100 13.8E	S RAMA06WT
1511	1/10/80		DPR3 E UGR 3.5KHZ R-01	GDC 00	32.4N	98 40.8E	S RAMA06WT
1520	1/10/80		DPR3 B UGR 3.5KHZ R-02	GDC 00	33.1N	98 41.1E	S RAMA06WT
0144	2/10/80		DPR3 E UGR 3.5KHZ R-02	GDC 01	00.9N	98 17.2E	S RAMA06WT
0242	2/10/80		DPR3 B UGR 3.5KHZ R-03	GDC 01	02.4N	98 12.2E	S RAMA06WT
2100	2/10/80		DPR3 E UGR 3.5KHZ R-03	GDC 01	56.9N	97 47.3E	S RAMA06WT
2110	2/10/80		DPR3 B UGR 3.5KHZ R-04	GDC 01	55.9N	97 47.1E	S RAMA06WT
1648	3/10/80		DPR3 E UGR 3.5KHZ R-04	GDC 01	56.2N	97 17.2E	S RAMA06WT
1709	3/10/80		DPR3 B UGR 3.5KHZ R-05	GDC 01	56.6N	97 15.0E	S RAMA06WT
1215	4/10/80		DPR3 E UGR 3.5KHZ R-05	GDC 01	32.0N	97 31.3E	S RAMA06WT
1224	4/10/80		DPR3 B UGR 3.5KHZ R-06	GDC 01	31.3N	97 31.2E	S RAMA06WT
0009	5/10/80		DPR3 E UGR 3.5KHZ R-06	GDC 00	51.1N	98 19.1E	S RAMA06WT
0026	5/10/80		DPR3 B UGR 3.5KHZ R-07	GDC 00	49.7N	98 20.2E	S RAMA06WT
2341	6/10/80		DPR3 E UGR 3.5KHZ R-07	GDC 00	19.8N	98 31.5E	S RAMA06WT
2345	6/10/80		DPR3 B UGR 3.5KHZ R-08	GDC 00	20.2N	98 31.3E	S RAMA06WT
0818	7/10/80		DPR3 E UGR 3.5KHZ R-08	GDC 00	22.9N	97 56.8E	S RAMA06WT
0849	7/10/80		DPR3 B UGR 3.5KHZ R-09	GDC 00	21.1N	97 54.3E	S RAMA06WT
1109	8/10/80		DPR3 E UGR 3.5KHZ R-09	GDC 00	18.2N	97 47.0E	S RAMA06WT
1114	8/10/80		DPR3 B UGR 3.5KHZ R-10	GDC 00	18.2N	97 47.0E	S RAMA06WT
0114	9/10/80		DPR3 E UGR 3.5KHZ R-10	GDC 00	33.4N	97 49.5E	S RAMA06WT

GMT TIME	D / M / Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
0408	9/10/80			DPR3 B	UGR 3.5KHZ R-11	GDC 00	32.9N	97 52.4E	S RAMA06WT
0001	10/10/80			DPR3 E	UGR 3.5KHZ R-11	GDC 01	40.3N	98 08.5E	S RAMA06WT
0021	10/10/80			DPR3 B	UGR 3.5KHZ R-12	GDC 01	39.3N	98 06.7E	S RAMA06WT
0214	11/10/80			DPR3 E	UGR 3.5KHZ R-12	GDC 01	56.4N	96 31.7E	S RAMA06WT
0300	11/10/80			DPR3 B	UGR 3.5KHZ R-13	GDC 01	56.7N	96 33.2E	S RAMA06WT
0223	12/10/80			DPR3 E	UGR 3.5KHZ R-13	GDC 00	33.2N	97 49.8E	S RAMA06WT
0603	12/10/80			DPR3 B	UGR 3.5KHZ R-14	GDC 00	31.3N	97 52.3E	S RAMA06WT
0438	13/10/80			DPR3 E	UGR 3.5KHZ R-14	GDC 00	35.6N	97 29.4E	S RAMA06WT
0456	13/10/80			DPR3 B	UGR 3.5KHZ R-15	GDC 00	35.6N	97 29.4E	S RAMA06WT
1116	14/10/80			DPR3 E	UGR 3.5KHZ R-15	GDC 00	01.8N	96 53.1E	S RAMA06WT
1131	14/10/80			DPR3 B	UGR 3.5KHZ R-16	GDC 00	01.9N	96 53.2E	S RAMA06WT
1107	15/10/80			DPR3 E	UGR 3.5KHZ R-16	GDC 00	05.3N	97 03.1E	S RAMA06WT
1133	15/10/80			DPR3 B	UGR 3.5KHZ R-17	GDC 00	05.5N	97 03.0E	S RAMA06WT
0015	17/10/80			DPR3 E	UGR 3.5KHZ R-17	GDC 00	05.7N	96 59.5E	S RAMA06WT
0019	17/10/80			DPR3 B	UGR 3.5KHZ R-18	GDC 00	05.5N	96 59.6E	S RAMA06WT
1416	18/10/80			DPR3 E	UGR 3.5KHZ R-18	GDC 00	03.6N	97 02.7E	S RAMA06WT
1439	18/10/80			DPR3 B	UGR 3.5KHZ R-19	GDC 00	03.5N	97 02.6E	S RAMA06WT
2010	18/10/80			DPR3 E	UGR 3.5KHZ R-19	GDC 00	07.6N	97 17.3E	S RAMA06WT
2035	18/10/80			DPR3 B	UGR 3.5KHZ R-20	GDC 00	08.0N	97 17.1E	S RAMA06WT
2341	19/10/80			DPR3 E	UGR 3.5KHZ R-20	GDC 00	35.6N	97 24.3E	S RAMA06WT
2345	19/10/80			DPR3 B	UGR 3.5KHZ R-21	GDC 00	35.6N	97 24.3E	S RAMA06WT
2345	20/10/80			DPR3 E	UGR 3.5KHZ R-21	GDC 00	05.3N	97 02.4E	S RAMA06WT
2355	20/10/80			DPR3 B	UGR 3.5KHZ R-22	GDC 00	05.2N	97 02.4E	S RAMA06WT
0039	22/10/80			DPR3 E	UGR 3.5KHZ R-22	GDC 00	56.4N	94 47.8E	S RAMA06WT
0109	22/10/80			DPR3 B	UGR 3.5KHZ R-23	GDC 00	55.5N	94 49.3E	S RAMA06WT
0615	24/10/80			DPR3 E	UGR 3.5KHZ R-23	GDC 05	38.8N	95 15.3E	S RAMA06WT
0620	24/10/80			DPR3 B	UGR 3.5KHZ R-24	GDC 05	39.3N	95 15.8E	S RAMA06WT
0733	24/10/80			DPR3 E	UGR 3.5KHZ R-24	GDC 05	46.3N	95 23.5E	S RAMA06WT
0751	24/10/80			DPR3 B	UGR 3.5KHZ R-25	GDC 05	47.4N	95 25.9E	S RAMA06WT
0142	25/10/80			DPR3 E	UGR 3.5KHZ R-25	GDC 05	12.6N	97 11.3E	S RAMA06WT
0157	25/10/80			DPR3 B	UGR 3.5KHZ R-26	GDC 05	12.8N	97 11.6E	S RAMA06WT
1223	25/10/80			DPR3 E	UGR 3.5KHZ R-26	GDC 05	02.8N	98 35.5E	S RAMA06WT
1237	25/10/80			DPR3 B	UGR 3.5KHZ R-27	GDC 05	01.6N	98 37.4E	S RAMA06WT
0700	26/10/80			DPR3 E	UGR 3.5KHZ R-27	GDC 02	45.2N	101 06.2E	S RAMA06WT

GMT TIME	D / M / Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	4 LEG-SHIP CRUISE
0758	25/10/80			DPR3 B	EPC 3.5KHZ FAST R-01	GDC 05	28.3N	98 02.1E	S RAMA06WT
1206	25/10/80			DPR3 E	EPC 3.5KHZ FAST R-01	GDC 05	04.3N	98 33.2E	S RAMA06WT
1218	25/10/80			DPR3 B	EPC 3.5KHZ FAST R-02	GDC 05	03.2N	98 34.8E	S RAMA06WT
2200	26/10/80			DPR3 E	EPC 3.5KHZ FAST R-02	GDC 01	10.7N	103 34.2E	S RAMA06WT
0117	15/10/80			DPRT B	12KHZ ROLLS 1-8	GDC 00	06.6N	97 02.9E	S RAMA06WT
1022	25/10/80			DPRT E	12KHZ ROLLS 1-8	GDC 05	13.0N	98 18.9E	S RAMA06WT
0200	08/10/80			DPRT B	12KHZ ROLL 1	GDC 00	09.5S	97 04.6E	S RAMA06WT
1230	08/10/80			DPRT E	12KHZ ROLL 1	GDC 00	18. N	97 48. E	F RAMA06WT
0200	1/10/80			DPRT B	12KHZ ROLL 1 SAMUDRA	GDC 00	00.3S	99 03.2E	S RAMA06WT
2225	2/10/80			DPRT E	12KHZ ROLL 1 SAMUDRA	GDC 01	48.1N	97 45.8E	S RAMA06WT
0100	3/10/80			DPRT B	12KHZ ROLL 2 SAMUDRA	GDC 01	34.4N	97 48.5E	S RAMA06WT
0355	3/10/80			DPRT E	12KHZ ROLL 2 SAMUDRA	GDC 01	27.5N	97 52.8E	S RAMA06WT
0436	3/10/80			DPRT B	12KHZ ROLL 3 SAMUDRA	GDC 01	24.6N	97 54.6E	S RAMA06WT
1035	3/10/80			DPRT E	12KHZ ROLL 3 SAMUDRA	GDC 01	36.8N	97 47.1E	S RAMA06WT
0000	4/10/80			DPRT B	12KHZ ROLL 4 SAMUDRA	GDC 01	24.6N	97 35.1E	S RAMA06WT
0131	6/10/80			DPRT E	12KHZ ROLL 4 SAMUDRA	GDC 00	39.3N	98 07.3E	S RAMA06WT
0134	6/10/80			DPRT B	12KHZ ROLL 5 SAMUDRA	GDC 00	39.4N	98 07.3E	S RAMA06WT
1305	6/10/80			DPRT E	12KHZ ROLL 5 SAMUDRA	GDC 00	48.9N	98 12.4E	S RAMA06WT
2230	6/10/80			DPRT B	12KHZ ROLL 6 SAMUDRA	GDC 00	18.6N	98 26.7E	S RAMA06WT
1146	8/10/80			DPRT E	12KHZ ROLL 6 SAMUDRA	GDC 00	18.1N	97 47.5E	S RAMA06WT

## \*\*\* SEISMIC REFLECTION PROFILES \*\*\*

1322	30/ 9/80			SPRF B	AIRGUN (2SEC) R-01	GDC 01	11.8S	100 01.9E	S RAMA06WT
0513	1/10/80			SPRF E	AIRGUN (2SEC) R-01	GDC 00	18.7N	98 46.8E	S RAMA06WT
1525	1/10/80			SPRF B	AIRGUN (2SEC) R-02	GDC 00	33.5N	98 41.1E	S RAMA06WT
2351	2/10/80			SPRF F	AIRGUN (2SEC) R-02	GDC 01	39.5N	97 45.4E	S RAMA06WT
2359	2/10/80			SPRF B	AIRGUN (2SEC) R-03	GDC 01	38.7N	97 45.5E	S RAMA06WT
0830	4/10/80			SPRF E	AIRGUN (2SEC) R-03	GDC 01	18.9N	97 41.1E	S RAMA06WT
1301	4/10/80			SPRF B	AIRGUN (2SEC) R-04	GDC 01	27.6N	97 33.6E	S RAMA06WT
0101	5/10/80			SPRF E	AIRGUN (2SEC) R-04	GDC 00	46.6N	98 21.9E	S RAMA06WT
0950	5/10/80			SPRF B	AIRGUN (2SEC) R-05	GDC 00	20.2N	97 40.3E	S RAMA06WT
0050	6/10/80			SPRF E	AIRGUN (2SEC) R-05	GDC 00	38.0N	98 05.9E	S RAMA06WT
1356	6/10/80			SPRF B	AIRGUN (2SEC) R-06	GDC 00	47.8N	98 16.4E	S RAMA06WT
2320	8/10/80			SPRF E	AIRGUN (2SEC) R-06	GDC 01	42.4N	98 12.3E	S RAMA06WT

GMT TIME	D / M / Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
0837	9/10/80			SPRF B	AIRGUN (2SEC) R-07	GDC 00	43.9N	98 08.3E	S RAMA06WT
0015	11/10/80			SPRF E	AIRGUN (2SEC) R-07	GDC 01	53.2N	96 28.8E	S RAMA06WT
0325	11/10/80			SPRF B	AIRGUN (2SEC) R-08	GDC 01	58.2N	96 32.2E	S RAMA06WT
0044	12/10/80			SPRF E	AIRGUN (2SEC) R-08	GDC 00	30.4N	97 40.5E	S RAMA06WT
0627	12/10/80			SPRF B	AIRGUN (2SEC) R-09	GDC 00	30.6N	97 50.3E	S RAMA06WT
0040	13/10/80			SPRF E	AIRGUN (2SEC) R-09	GDC 00	41.8N	97 29.5E	S RAMA06WT
0646	13/10/80			SPRF B	AIRGUN (2SEC) R-10	GDC 00	36.5N	97 30.1E	S RAMA06WT
0936	14/10/80			SPRF E	AIRGUN (2SEC) R-10	GDC 00	01.9N	96 53.8E	S RAMA06WT
1639	15/10/80			SPRF B	AIRGUN (2SEC) R-11	GDC 00	11.5N	96 56.1E	S RAMA06WT
1746	16/10/80			SPRF E	AIRGUN (2SEC) R-11	GDC 00	03.1N	96 59.9E	S RAMA06WT
0932	17/10/80			SPRF B	AIRGUN (2SEC) R-12	GDC 00	01.2N	96 59.7E	S RAMA06WT
1600	20/10/80			SPRF E	AIRGUN (2SEC) R-12	GDC 00	04.0N	97 01.6E	S RAMA06WT
0022	21/10/80			SPRF B	AIRGUN (2SEC) R-13	GDC 00	03.8N	97 04.0E	S RAMA06WT
0213	22/10/80			SPRF E	AIRGUN (2SEC) R-13	GDC 00	58.4N	94 43.5E	S RAMA06WT
2058	22/10/80			SPRF B	AIRGUN (2SEC) R-14	GDC 01	06.5N	94 46.4E	S RAMA06WT
1046	24/10/80			SPRF E	AIRGUN (2SEC) R-14	GDC 05	58.7N	95 50.2E	S RAMA06WT
1048	24/10/80			SPRF B	AIRGUN (2SEC) R-15	GDC 05	58.4N	95 50.3E	S RAMA06WT
0038	25/10/80			SPRF E	AIRGUN (2SEC) R-15	GDC 05	13.6N	97 10.1E	S RAMA06WT
0253	25/10/80			SPRF B	AIRGUN (1SEC) R-01	GDC 05	16.5N	97 15.3E	S RAMA06WT
0630	25/10/80			SPRF E	AIRGUN (1SEC) R-01	GDC 05	29.3N	97 47.5E	S RAMA06WT
1322	30/ 9/80			SPRS B	AIRGUN (5SEC) R-01	GDC 01	11.8S	100 01.9E	S RAMA06WT
0513	1/10/80			SPRS E	AIRGUN (5SEC) R-01	GDC 00	18.7N	98 46.8E	S RAMA06WT
1525	1/10/80			SPRS B	AIRGUN (5SEC) R-02	GDC 00	33.5N	98 41.1E	S RAMA06WT
2357	2/10/80			SPRS E	AIRGUN (5SEC) R-02	GDC 01	38.9N	97 45.4E	S RAMA06WT
2359	2/10/80			SPRS B	AIRGUN (5SEC) R-03	GDC 01	38.7N	97 45.5E	S RAMA06WT
0830	4/10/80			SPRS E	AIRGUN (5SEC) R-03	GDC 01	18.9N	97 41.1E	S RAMA06WT
1301	4/10/80			SPRS B	AIRGUN (5SEC) R-04	GDC 01	27.6N	97 33.6E	S RAMA06WT
0101	5/10/80			SPRS E	AIRGUN (5SEC) R-04	GDC 00	46.6N	98 21.9E	S RAMA06WT
0950	5/10/80			SPRS B	AIRGUN (5SEC) R-05	GDC 00	20.2N	97 40.3E	S RAMA06WT
2319	6/10/80			SPRS E	AIRGUN (5SEC) R-05	GDC 00	18.5N	98 31.5E	S RAMA06WT
0356	7/10/80			SPRS B	AIRGUN (5SEC) R-06	GDC 00	37.9N	98 18.7E	S RAMA06WT
2320	8/10/80			SPRS E	AIRGUN (5SEC) R-06	GDC 00	30.1N	97 48.3E	S RAMA06WT
0837	9/10/80			SPRS B	AIRGUN (5SEC) R-07	GDC 00	43.9N	98 08.3E	S RAMA06WT
0015	11/10/80			SPRS E	AIRGUN (5SEC) R-07	GDC 01	53.2N	96 28.8E	S RAMA06WT

GMT TIME	D / M / Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
0325	11/10/80			SPRS B	AIRGUN (5SEC) R-08	GDC 01	58.2N	96 32.2E	S RAMA06WT
0044	12/10/80			SPRS E	AIRGUN (5SEC) R-08	GDC 00	30.4N	97 40.5E	S RAMA06WT
0627	12/10/80			SPRS B	AIRGUN (5SEC) R-09	GDC 00	30.6N	97 50.3E	S RAMA06WT
0040	13/10/80			SPRS E	AIRGUN (5SEC) R-09	GDC 00	41.8N	97 29.5E	S RAMA06WT
0646	13/10/80			SPRS B	AIRGUN (5SEC) R-10	GDC 00	36.5N	97 30.1E	S RAMA06WT
0936	14/10/80			SPRS E	AIRGUN (5SEC) R-10	GDC 00	01.9N	96 53.8E	S RAMA06WT
1450	15/10/80			SPRS B	AIRGUN (5SEC) R-11	GDC 00	05.7N	97 01.9E	S RAMA06WT
1746	16/10/80			SPRS E	AIRGUN (5SEC) R-11	GDC 00	03.1N	96 59.9E	S RAMA06WT
0932	17/10/80			SPRS B	AIRGUN (5SEC) R-12	GDC 00	01.2N	96 59.7E	S RAMA06WT
1600	20/10/80			SPRS E	AIRGUN (5SEC) R-12	GDC 00	04.0N	97 01.6E	S RAMA06WT
0022	21/10/80			SPRS B	AIRGUN (5SEC) R-13	GDC 00	03.8N	97 04.0E	S RAMA06WT
0213	22/10/80			SPRS E	AIRGUN (5SEC) R-13	GDC 00	58.4N	94 43.5E	S RAMA06WT
2058	22/10/80			SPRS B	AIRGUN (5SEC) R-14	GDC 01	06.5N	94 46.4E	S RAMA06WT
1045	24/10/80			SPRS E	AIRGUN (5SEC) R-14	GDC 05	58.7N	95 50.1E	S RAMA06WT
1048	24/10/80			SPRS B	AIRGUN (5SEC) R-15	GDC 05	58.4N	95 50.3E	S RAMA06WT
0038	25/10/80			SPRS E	AIRGUN (5SEC) R-15	GDC 05	13.6N	97 10.1E	S RAMA06WT

## \*\*\*MULTI-CHANNEL DIGITAL SEISMIC TAPES\*\*\*

1334	30/ 9/80			SPMT B	MULTI-CHANNEL TAPES	SCG 01	10.7S	100 00.9E	S RAMA06WT
0038	25/10/80			SPMT E	REELS 0161-0461	SCG 05	13.6N	97 10.1E	S RAMA06WT

## \*\*\*MULTI-CHANNEL SEISMIC LINE\*\*\*

1555	1/10/80			SPML B	LINE RAMA06-5A-21A	GDC 00	35.7N	98 40.2E	S RAMA06WT
0800	4/10/80			SPML E	LINE RAMA06-5A-21A	GDC 01	16.3N	97 42.9E	S RAMA06WT
1315	4/10/80			SPML B	LINE RAMA06-25-29	GDC 01	26.3N	97 34.7E	S RAMA06WT
0051	5/10/80			SPML E	LINE RAMA06-25-29	GDC 00	47.4N	98 21.6E	S RAMA06WT
1150	5/10/80			SPML B	LINE RAMA06-32-36	GDC 00	24.8N	97 48.9E	S RAMA06WT
0125	6/10/80			SPML E	LINE RAMA06-32-36	GDC 00	39.1N	98 07.1E	S RAMA06WT
1410	6/10/80			SPML B	LINE RAMA06-37A-41	GDC 00	46.4N	98 15.8E	S RAMA06WT
2313	6/10/80			SPML E	LINE RAMA06-37A-41	GDC 00	18.3N	98 31.0E	S RAMA06WT
0356	7/10/80			SPML B	LINE RAMA06-42-44	GDC 00	37.9N	98 18.7E	S RAMA06WT
2358	7/10/80			SPML E	LINE RAMA06-42-44	GDC 00	16.0S	96 54.4E	S RAMA06WT
0837	9/10/80			SPML B	LINE RAMA06-52A-63	GDC 00	43.9N	98 08.3E	S RAMA06WT
0015	11/10/80			SPML E	LINE RAMA06-52A-63	GDC 01	53.2N	96 28.8E	S RAMA06WT

GMT D /M /Y TIME DATE	LOC LOC TIME TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
**** SEISMIC REFLECTION/REFRACTION LINE ****							
1641	30/ 9/80	SRSS	SEIS RUN RAMA 6-01	GDC 00	54.6S	99 43.9E	S RAMA06WT
1710	1/10/80	SRSS	SEIS RUN RAMA 6-02	GDC 00	39.2N	98 33.6E	S RAMA06WT
1911	1/10/80	SRSS	SEIS RUN RAMA 6-03	GDC 00	42.8N	98 21.6E	S RAMA06WT
2135	1/10/80	SRSS	SEIS RUN RAMA 6-04A	GDC 00	48.2N	98 07.9E	S RAMA06WT
2149	1/10/80	SRSS	SEIS RUN RAMA 6-04B	GDC 00	48.8N	98 06.6E	S RAMA06WT
0014	2/10/80	SRSS	SEIS RUN RAMA 6-05B	GDC 00	57.0N	98 10.1E	S RAMA06WT
0740	2/10/80	SRSS	SEIS RUN RAMA 6-06B	GDC 01	19.7N	97 58.0E	S RAMA06WT
0857	2/10/80	SRSS	SEIS RUN RAMA 6-07A	GDC 01	26.3N	97 53.9E	S RAMA06WT
0916	2/10/80	SRSS	SEIS RUN RAMA 6-07B	GDC 01	28.0N	97 52.8E	S RAMA06WT
0933	2/10/80	SRSS	SEIS RUN RAMA 6-07C	GDC 01	29.5N	97 51.8E	S RAMA06WT
0954	2/10/80	SRSS	SEIS RUN RAMA 6-07D	GDC 01	31.3N	97 50.7E	S RAMA06WT
1306	2/10/80	SRSS	SEIS RUN RAMA 6-08	GDC 01	48.3N	97 39.6E	S RAMA06WT
1731	2/10/80	SRSS	SEIS RUN RAMA 6-09	GDC 02	07.8N	97 31.9E	S RAMA06WT
2217	2/10/80	SRSS	SEIS RUN RAMA 6-10	GDC 01	48.9N	97 46.0E	S RAMA06WT
0245	3/10/80	SRCS B	SEIS RUN RAMA6-11-1	GGG 01	30.9N	97 51.6E	S RAMA06WT
0455	3/10/80	SRCS E	ES/EX/TA/AD	GGG 01	23.2N	97 55.5E	S RAMA06WT
0734	3/10/80	SRCS B	SEIS RUN RAMA6-11-2	GGG 01	23.3N	97 55.0E	S RAMA06WT
0952	3/10/80	SRCS E	ES/EX/TA/AD	GGG 01	33.9N	97 50.2E	S RAMA06WT
1046	3/10/80	SRSS	SEIS RUN RAMA 6-12	GDC 01	37.4N	97 46.3E	S RAMA06WT
1201	3/10/80	SRSS	SEIS RUN RAMA 6-13	GDC 01	41.8N	97 40.1E	S RAMA06WT
1905	3/10/80	SRSS	SEIS RUN RAMA 6-14	GDC 01	49.4N	97 16.1E	S RAMA06WT
2154	3/10/80	SRSS	SEIS RUN RAMA 6-15	GDC 01	34.9N	97 26.7E	S RAMA06WT
2256	3/10/80	SRSS	SEIS RUN RAMA 6-16	GDC 01	29.7N	97 31.0E	S RAMA06WT
0848	4/10/80	SRCS B	SEIS RUN RAMA6-17	GGG 01	20.3N	97 40.5E	S RAMA06WT
1051	4/10/80	SRCS E	ES/EX/TA/AD	GGG 01	31.2N	97 37.2E	S RAMA06WT
0938	4/10/80	SRSS	SEIS RUN RAMA 6-17	GDC 01	24.7N	97 39.2E	S RAMA06WT
1415	4/10/80	SRSS	SEIS RUN RAMA 6-18	GDC 01	25.3N	97 41.5E	S RAMA06WT
1540	4/10/80	SRSS	SEIS RUN RAMA 6-19	GDC 01	24.9N	97 50.8E	S RAMA06WT
2042	4/10/80	SRSS	SEIS RUN RAMA 6-20	GDC 01	11.1N	98 10.0E	S RAMA06WT
0130	5/10/80	SRCS B	SEIS RUN RAMA6-21	GGG 00	44.6N	98 20.9E	S RAMA06WT
0900	5/10/80	SRCS E	CO/EX/TA/AD	GGG 00	18.4N	97 42.5E	S RAMA06WT
1357	5/10/80	SRSS	SEIS RUN RAMA 6-22	GDC 00	19.7N	98 01.0E	S RAMA06WT
2106	5/10/80	SRSS	SEIS RUN RAMA 6-23	GDC 00	26.5N	98 09.6E	S RAMA06WT
0227	6/10/80	SRCS B	SEIS RUN RAMA 6-24	GGG 00	41.2N	98 08.9E	S RAMA06WT
1154	6/10/80	SRCS E	ES/EX/TA/AD	GGG 00	42.2N	98 11.4E	S RAMA06WT
0226	6/10/80	SBSD	SONOBUOY RAMA 6-24-A	GDC 00	41.1N	98 08.9E	S RAMA06WT
1036	6/10/80	SRSS	SEIS RUN RAMA 6-24B	GDC 00	35.3N	98 09.0E	S RAMA06WT
1634	6/10/80	SRSS	SEIS RUN RAMA 6-25	GDC 00	33.0N	98 07.3E	S RAMA06WT
2151	6/10/80	SRSS	SEIS RUN RAMA 6-26	GDC 00	19.0N	98 22.7E	S RAMA06WT
0030	7/10/80	SRCS B	SEIS RUN RAMA 6-27	GGG 00	24.1N	98 28.7E	S RAMA06WT
0309	7/10/80	SRCS E	ES/EX/TA/AD	GGG 00	38.1N	98 22.7E	S RAMA06WT
0137	7/10/80	SBSD	SONOBUOY RAMA 6-27-A	GDC 00	29.6N	98 26.1E	S RAMA06WT
0012	8/10/80	SRCS B	SEIS RUN RAMA 6-28	GDC 00	15.2S	96 55.7E	S RAMA06WT
1012	8/10/80	SRCS E	CO/EX/TA/SD/AD	GDC 00	16.8N	97 44.9E	S RAMA06WT
0010	8/10/80	SBSD	SONOBUOY RAMA 6-28-A	GDC 00	15.3S	96 55.5E	S RAMA06WT
0245	8/10/80	SBSD	SONOBUOY RAMA 6-28-B	GDC 00	07.2S	97 08.8E	S RAMA06WT
0332	8/10/80	SBSD	SONOBUOY RAMA 6-28-C	GDC 00	04.8S	97 13.1E	S RAMA06WT
0507	8/10/80	SBSD	SONOBUOY RAMA 6-28-D	GDC 00	00.0S	97 21.0E	S RAMA06WT

GMT TIME	D / M / Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
0642	8/10/80			SBSD	SONOBUOY RAMA 6-28-E	GDC 00	04.3N	97 27.4E	S RAMA06WT
1214	9/10/80			SRSS	SEIS RUN RAMA 6-29	GDC 01	05.6N	98 08.7E	S RAMA06WT
1415	9/10/80			SRSS	SEIS RUN RAMA 6-30	GDC 01	14.7N	98 00.1E	S RAMA06WT
2235	9/10/80			SRSS	SEIS RUN RAMA 6-31	GDC 01	44.9N	98 16.3E	S RAMA06WT
0209	10/10/80			SRSS	SEIS RUN RAMA 6-32	GDC 01	33.6N	97 56.1E	S RAMA06WT
0310	10/10/80			SRSS	SEIS RUN RAMA 6-33	GDC 01	30.2N	97 50.7E	S RAMA06WT
1016	10/10/80			SRSS	SEIS RUN RAMA 6-34	GDC 01	44.1N	97 45.9E	S RAMA06WT
2041	10/10/80			SRSS	SEIS RUN RAMA 6-35	GDC 01	45.3N	96 47.6E	S RAMA06WT
1207	11/10/80			SRSS	SEIS RUN RAMA 6-36	GDC 01	26.4N	96 01.2E	S RAMA06WT
1435	12/10/80			SRSS	SEIS RUN RAMA 6-37	GDC 00	26.7N	97 25.3E	S RAMA06WT
1528	15/10/80			SRSS	SEIS RUN RAMA 6-38	GDC 00	06.9N	96 58.8E	S RAMA06WT
1017	16/10/80			SRSS	SEIS RUN RAMA 6-39	GDC 00	42.6N	96 55.5E	S RAMA06WT
1531	16/10/80			SRSS	SEIS RUN RAMA 6-40	GDC 00	19.7N	96 53.0E	S RAMA06WT
1642	16/10/80			SRSS	SEIS RUN RAMA 6-41	GDC 00	12.6N	96 56.1E	S RAMA06WT
0042	17/10/80			SRCS B	SEIS RUN RAMA 6-42	GGG 00	04.8N	96 59.6E	S RAMA06WT
0532	17/10/80			SRCS E	UR/AX/MB,OH,SD/AD	GGG 00	01.6N	97 00.2E	S RAMA06WT
2025	16/10/80			SBMB B	RAMA 6-42-A	GGG 00	03.4N	96 59.8E	S RAMA06WT
1550	17/10/80			SBMB E	MOORED BUOY JO	GGG 00	03.8N	97 00.5E	S RAMA06WT
2259	16/10/80			SBOH B	RAMA 6-42-B	GGG 00	06.9N	96 59.4E	S RAMA06WT
1455	17/10/80			SBOH E	SEAFLOOR HYDROPHONE2	GGG 00	06.9N	96 59.7E	S RAMA06WT
2339	16/10/80			SBOH B	RAMA 6-42-C	GGG 00	06.5N	96 59.4E	S RAMA06WT
1522	17/10/80			SBOH E	SEAFLOOR HYDROPHONE3	GGG 00	06.3N	96 59.7E	S RAMA06WT
1016	17/10/80			SBSD	SONOBUOY RAMA 6-42-D	GDC 00	01.1N	96 59.6E	S RAMA06WT
1225	17/10/80			SBSD	SONOBUOY RAMA 6-42-E	GDC 00	10.4N	96 58.8E	S RAMA06WT
1401	21/10/80			SRSS	SEIS RUN RAMA 6-43	GDC 00	54.0N	95 01.5E	S RAMA06WT
1512	21/10/80			SRSS	SEIS RUN RAMA 6-44	GDC 00	59.1N	94 50.3E	S RAMA06WT
1612	21/10/80			SRSS	SEIS RUN RAMA 6-45	GDC 01	03.4N	94 40.4E	S RAMA06WT
0448	22/10/80			SRCS B	SEIS RUN RAMA 6-46	GGG 00	57.8N	94 42.4E	S RAMA06WT
1030	22/10/80			SRCS E	UR/AX/MD,OH,SD/AD	GGG 01	01.6N	94 39.5E	S RAMA06WT
2127	21/10/80			SBMB B	RAMA 6-46-A	GGG 01	00.5N	94 41.5E	S RAMA06WT
1246	22/10/80			SBMB E	MOORED BUOY JO	GGG 00	59.4N	94 41.8E	S RAMA06WT
0135	22/10/80			SBSD	SONOBUOY RAMA 6-46-B	GDC 00	55.7N	94 49.1E	S RAMA06WT
0323	22/10/80			SBOH B	RAMA 6-46-C	GGG 00	58.1N	94 43.9E	S RAMA06WT
1459	22/10/80			SBOH E	SEAFLOOR HYDROPHONE2	GGG 00	57.9N	94 44.0E	S RAMA06WT
0351	22/10/80			SBOH B	RAMA 6-46-D	GGG 00	57.9N	94 43.4E	S RAMA06WT
1518	22/10/80			SBOH E	SEAFLOOR HYDROPHONE3	GGG 00	57.6N	94 44.0E	S RAMA06WT
2105	23/10/80			SRSS	SEIS RUN RAMA 6-47	GDC 04	27.1N	95 05.7E	S RAMA06WT
2144	23/10/80			SRSS	SEIS RUN RAMA 6-48	GDC 04	32.9N	95 05.0E	S RAMA06WT
1103	24/10/80			SRSS	SEIS RUN RAMA 6-49	GDC 05	56.1N	95 50.5E	S RAMA06WT
1603	24/10/80			SRSS	SEIS RUN RAMA 6-50	GDC 05	36.3N	96 17.0E	S RAMA06WT
2245	24/10/80			SRSS	SEIS RUN RAMA 6-51	GDC 05	27.3N	96 58.4E	S RAMA06WT



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## \*\*\* MAGNETOMETER \*\*\*

1251 30/ 9/80		MGRA B	MAGNETICS R-01	GDC 01	12.0S	100 05.6E	S RAMA06WT
1305 5/10/80		MGRA E	MAGNETICS R-01	GDC 00	21.8N	97 56.3E	S RAMA06WT
1313 5/10/80		MGRA B	MAGNETICS R-02	GDC 00	21.5N	97 57.0E	S RAMA06WT
0039 25/10/80		MGRA E	MAGNETICS R-02	GDC 05	13.4N	97 10.3E	S RAMA06WT
0040 25/10/80		MGRA B	MAGNETICS R-03	GDC 05	13.4N	97 10.3E	S RAMA06WT
2355 26/10/80		MGRA E	MAGNETICS R-03	GDC 01	09.9N	103 47.7E	S RAMA06WT

## \*\*\*GRAVIMETRIC RECORDS\*\*\* CURATOR L.M. DORMAN (EXT.2406)

1047 30/ 9/80		GVRA B	GRAVIMETER R-01	LMD 01	01.3S	100 16.5E	S RAMA06WT
1100 21/10/80		GVRA E	GRAVIMETER R-01	LMD 00	42.0N	95 30.0E	S RAMA06WT
1110 21/10/80		GVRA B	GRAVIMETER R-02	LMD 00	42.7N	95 28.4E	S RAMA06WT
0900 27/10/80		GVRA E	GRAVIMETER R-02	LMD 01	09.9N	103 47.7E	S RAMA06WT

## \*\*\*\* GRAVITY CORES \*\*\*\* CURATOR - W. RIEDEL EXT. 4386

0436 13/10/80		COPG	TRIP GRAV 46PG 1404M	GCR 00	35.6N	97 29.4E	S RAMA06WT
0436 13/10/80		COPS X	PISTON 46P 1404M	GCR 00	35.6N	97 29.4E	S RAMA06WT
1246 14/10/80		COPG	TRIP GRAV 47PG 5234M	GCR 00	02.4N	96 53.9E	S RAMA06WT
1246 14/10/80		COPS	PISTON 47P 5234M	GCR 00	02.4N	96 53.9E	S RAMA06WT
1948 14/10/80		COPG X	KING KONG 48G 5289M	GCR 00	04.2N	96 56.9E	S RAMA06WT
0035 15/10/80		COPG X	KING KONG 49G 5251M	GCR 00	06.4N	97 03.3E	S RAMA06WT
0449 15/10/80		COPG	KING KONG 50G 5264M	GCR 00	05.8N	97 00.9E	S RAMA06WT
0449 15/10/80		COPG	GRAV TRIP 50G 5264M	GCR 00	05.8N	97 00.9E	S RAMA06WT
0901 15/10/80		COPG	GRAV CORE 51G 5232M	GCR 00	05.0N	97 02.8E	S RAMA06WT
1233 15/10/80		COPG	GRAV CORE 52G 5226M	GCR 00	05.4N	97 02.9E	S RAMA06WT
1912 17/10/80		COPG	TRIP GRAV 53PG 5162M	GCR 00	03.9N	96 49.5E	S RAMA06WT
1912 17/10/80		COPS X	PISTON 53P 5162M	GCR 00	03.9N	96 49.5E	S RAMA06WT
1328 18/10/80		COGV X	KING KONG 54G 5241M	GCR 00	03.8N	97 02.7E	S RAMA06WT
1058 19/10/80		COGV	KING KONG 55G 3363M	GCR 00	08.3N	97 16.8E	S RAMA06WT
1511 19/10/80		COGV	KING KONG 56G 3190M	GCR 00	17.5N	97 18.6E	S RAMA06WT
1904 19/10/80		COGV	KING KONG 57G 3208M	GCR 00	19.1N	97 18.5E	S RAMA06WT
0007 20/10/80		COGV X	KING KONG 58G 1367M	GCR 00	35.5N	97 24.4E	S RAMA06WT
0118 20/10/80		COGV X	KING KONG 59G 1391M	GCR 00	35.8N	97 26.1E	S RAMA06WT
0220 20/10/80		COGV	KING KONG 60G 1391M	GCR 00	35.5N	97 26.6E	S RAMA06WT
0920 20/10/80		COGV	KING KONG 61G 1470M	GCR 00	30.9N	97 29.6E	S RAMA06WT
1813 20/10/80		COGV X	KING KONG 62G 5249M	GCR 00	02.7N	97 03.1E	S RAMA06WT
2051 20/10/80		COGV X	KING KONG 63G 5253M	GCR 00	06.3N	97 02.8E	S RAMA06WT

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\*\*\* DREDGES \*\*\* CURATOR - W. RIEDEL EXT. 4386

0154	18/10/80	DRRO B	DREDGE 01	5129M	GCR 00	08.6N	97 04.8E S RAMA06WT
0456	18/10/80	DRRO E	DREDGE 01	5129M	GCR 00	08.7N	97 09.5E S RAMA06WT
0704	18/10/80	DRRO B	DREDGE 02	4074M	GCR 00	09.0N	97 09.9E S RAMA06WT
0835	18/10/80	DRRO E	DREDGE 02	4074M	GCR 00	09.1N	97 11.2E S RAMA06WT
2045	18/10/80	DRRO B	DREDGE 03	3141M	GCR 00	08.2N	97 17.1E S RAMA06WT
2235	18/10/80	DRRO E	DREDGE 03	3141M	GCR 00	08.8N	97 17.9E S RAMA06WT
0111	19/10/80	DRRO B	DREDGE 04	3352M	GCR 00	08.4N	97 17.2E S RAMA06WT
0230	19/10/80	DRRO E	DREDGE 04	3352M	GCR 00	08.7N	97 18.3E S RAMA06WT
0515	19/10/80	DRRO B	DREDGE 05	3440M	GCR 00	07.5N	97 16.7E S RAMA06WT
0656	19/10/80	DRRO E	DREDGE 05	3440M	GCR 00	08.4N	97 17.7E S RAMA06WT

\*\*\* BATHY THERMOGRAPH \*\*\*

0236	3/10/80	BTXP	XBT NO. 1		GGG 01	31.1N	97 51.7E S RAMA06WT
0220	5/10/80	BTXP	XBT NO. 2		GGG 00	41.4N	98 16.9E S RAMA06WT
0112	6/10/80	BTXP	XBT NO. 3		GGG 00	38.5N	98 06.8E S RAMA06WT
0034	7/10/80	BTXP	XBT NO. 4		GGG 00	24.4N	98 28.5E S RAMA06WT
0755	8/10/80	BTXP	XBT NO. 5		GGG 00	08.5N	97 33.7E S RAMA06WT
1836	16/10/80	BTXP	XBT NO. 6		GGG 00	02.9N	96 59.9E S RAMA06WT
0940	17/10/80	BTXP	XBT NO. 7		GGG 00	00.6N	96 59.7E S RAMA06WT
2000	21/10/80	BTXP	XBT NO. 8		GGG 01	01.1N	94 42.2E S RAMA06WT

\*\*\* SURFACE NET \*\*\*

1047	30/ 9/80	SNNU B	SNNUH	0	MIC 01	01.3S	100 16.5E S RAMA06WT
1053	30/ 9/80	SNNU E	SNNUH SURFACE	01	MIC 01	01.3S	100 16.5E S RAMA06WT
1247	8/10/80	SNNU B	SNNUH	0	MIC 00	18.2N	97 48.2E S RAMA06WT
1253	8/10/80	SNNU E	SNNUH SURFACE	02	MIC 00	18.4N	97 48.0E S RAMA06WT
0024	9/10/80	SNNU B	SNNUH	0	MIC 00	31.6N	97 51.3E S RAMA06WT
0029	9/10/80	SNNU E	SNNUH SURFACE	03	MIC 00	31.7N	97 51.1E S RAMA06WT
0627	13/10/80	SNNU B	SNNUH	0	MIC 00	36.0N	97 29.5E S RAMA06WT
0632	13/10/80	SNNU E	SNNUH SURFACE	04	MIC 00	36.1N	97 29.6E S RAMA06WT
1217	19/10/80	SNNU B	SNNUH	0	MIC 00	07.8N	97 16.6E S RAMA06WT
1223	19/10/80	SNNU E	SNNUH SURFACE	05	MIC 00	08.0N	97 16.7E S RAMA06WT
0945	20/10/80	SNNU B	SNNUH	0	MIC 00	30.3N	97 29.7E S RAMA06WT
0953	20/10/80	SNNU E	SNNUH SURFACE	06	MIC 00	29.8N	97 29.6E S RAMA06WT
1343	22/10/80	SNNU B	SNNUH	0	MIC 00	58.8N	94 41.5E S RAMA06WT
1355	22/10/80	SNNU E	SNNUH SURFACE	07	MIC 00	58.3N	94 41.7E S RAMA06WT
0149	25/10/80	SNNU B	SNNUH	0	MIC 05	12.7N	97 11.5E S RAMA06WT
0202	25/10/80	SNNU E	SNNUH SURFACE	08	MIC 05	13.0N	97 11.8E S RAMA06WT

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

1621 22/10/80			TMIK B MIDWAT TRWL 01 3000M	MIC 00	57.4N	94 43.4E S	RAMA06WT
2015 22/10/80			TMIK E MIDWAT TRWL 01 3000M	MIC 01	04.8N	94 45.9E S	RAMA06WT

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*** DESIGNATED TURNING POINTS ***							
1244	30/ 9/80	NVTP	TP1A	GDC 01	12.0S	100 06.2E	S RAMA06WT
1320	30/ 9/80	NVTP	TP2A	GDC 01	11.9S	100 02.1E	S RAMA06WT
2320	30/ 9/80	NVTP	TP3	GDC 00	21.7S	99 02.6E	S RAMA06WT
0300	1/10/80	NVTP	TP4	GDC 00	08.4N	99 03.3E	S RAMA06WT
0511	1/10/80	NVTP	TP5	GDC 00	18.5N	98 46.9E	S RAMA06WT
1511	1/10/80	NVTP	TP5A	GDC 00	32.4N	98 40.8E	S RAMA06WT
1630	1/10/80	NVTP	TP6	GDC 00	37.9N	98 37.5E	S RAMA06WT
1948	1/10/80	NVTP	TP7	GDC 00	44.0N	98 18.0E	S RAMA06WT
2225	1/10/80	NVTP	TP8	GDC 00	50.4N	98 03.3E	S RAMA06WT
0110	2/10/80	NVTP	TP9	GDC 00	58.5N	98 15.6E	S RAMA06WT
0440	2/10/80	NVTP	TP10	GDC 01	01.6N	98 00.6E	S RAMA06WT
0711	2/10/80	NVTP	TP11	GDC 01	17.1N	97 58.9E	S RAMA06WT
0910	2/10/80	NVTP	TP12	GDC 01	27.5N	97 53.1E	S RAMA06WT
1646	2/10/80	NVTP	TP13	GDC 02	07.1N	97 28.3E	S RAMA06WT
2000	2/10/80	NVTP	TP14	GDC 02	02.6N	97 46.4E	S RAMA06WT
2351	2/10/80	NVTP	TP15	GDC 01	39.5N	97 45.4E	S RAMA06WT
0640	3/10/80	NVTP	TP16	GDC 01	19.3N	97 56.0E	S RAMA06WT
1000	3/10/80	NVTP	TP17	GDC 01	34.5N	97 49.9E	S RAMA06WT
1608	3/10/80	NVTP	TP18	GDC 01	55.9N	97 21.2E	S RAMA06WT
1730	3/10/80	NVTP	TP19	GDC 01	57.0N	97 12.9E	S RAMA06WT
0253	4/10/80	NVTP	TP20	GDC 01	11.6N	97 46.4E	S RAMA06WT
0630	4/10/80	NVTP	TP21	GDC 01	11.4N	97 49.2E	S RAMA06WT
0705	4/10/80	NVTP	TP21A	GDC 01	11.8N	97 46.0E	S RAMA06WT
0830	4/10/80	NVTP	TP22	GDC 01	18.9N	97 41.1E	S RAMA06WT
1110	4/10/80	NVTP	TP23	GDC 01	32.7N	97 36.9E	S RAMA06WT
1205	4/10/80	NVTP	TP24	GDC 01	32.7N	97 31.9E	S RAMA06WT
1305	4/10/80	NVTP	TP25	GDC 01	27.2N	97 33.9E	S RAMA06WT
1830	4/10/80	NVTP	TP26	GDC 01	23.9N	98 09.6E	S RAMA06WT
2320	4/10/80	NVTP	TP27	GDC 00	54.5N	98 15.1E	S RAMA06WT
0009	5/10/80	NVTP	TP28	GDC 00	51.1N	98 19.1E	S RAMA06WT
0051	5/10/80	NVTP	TP29	GDC 00	47.4N	98 21.6E	S RAMA06WT
0130	5/10/80	NVTP	TP30	GDC 00	44.6N	98 20.9E	S RAMA06WT
0925	5/10/80	NVTP	TP31	GDC 00	18.1N	97 40.5E	S RAMA06WT
1115	5/10/80	NVTP	TP32	GDC 00	26.1N	97 45.5E	S RAMA06WT
1720	5/10/80	NVTP	TP33	GDC 00	11.3N	98 21.7E	S RAMA06WT
1825	5/10/80	NVTP	TP34	GDC 00	15.2N	98 21.5E	S RAMA06WT
2320	5/10/80	NVTP	TP35	GDC 00	36.2N	97 58.8E	S RAMA06WT
0041	6/10/80	NVTP	TP36	GDC 00	38.2N	98 05.2E	S RAMA06WT
0400	6/10/80	NVTP	TP37	GDC 00	48.0N	98 12.8E	S RAMA06WT
0900	6/10/80	NVTP	TP38	GDC 00	27.1N	98 05.9E	S RAMA06WT
1400	6/10/80	NVTP	TP37A	GDC 00	47.4N	98 16.3E	S RAMA06WT
1815	6/10/80	NVTP	TP40	GDC 00	24.5N	98 01.5E	S RAMA06WT
2308	6/10/80	NVTP	TP41	GDC 00	18.2N	98 30.6E	S RAMA06WT
0023	7/10/80	NVTP	TP41A	GDC 00	23.5N	98 29.1E	S RAMA06WT
0313	7/10/80	NVTP	TP42	GDC 00	38.4N	98 22.5E	S RAMA06WT
2130	7/10/80	NVTP	TP43	GDC 00	23.1S	96 51.0E	S RAMA06WT
2212	7/10/80	NVTP	TP44	GDC 00	21.1S	96 48.0E	S RAMA06WT
1245	8/10/80	NVTP	TP45	GDC 00	18.1N	97 48.3E	S RAMA06WT
1725	8/10/80	NVTP	TP46	GDC 00	45.1N	97 25.6E	S RAMA06WT
1836	8/10/80	NVTP	TP47	GDC 00	48.2N	97 31.9E	S RAMA06WT

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1939	8/10/80			NVTP	TP48	GDC 00	43.5N	97 35.8E	S RAMA06WT
2200	8/10/80			NVTP	TP49	GDC 00	30.7N	97 40.5E	S RAMA06WT
2305	8/10/80			NVTP	TP50	GDC 00	30.0N	97 47.0E	S RAMA06WT
2335	8/10/80			NVTP	TP51	GDC 00	30.1N	97 49.5E	S RAMA06WT
0816	9/10/80			NVTP	TP52	GDC 00	42.0N	98 07.8E	S RAMA06WT
1100	9/10/80			NVTP	TP53	GDC 00	58.3N	98 11.7E	S RAMA06WT
1230	9/10/80			NVTP	TP54	GDC 01	07.0N	98 07.9E	S RAMA06WT
1550	9/10/80			NVTP	TP55	GDC 01	21.8N	97 54.5E	S RAMA06WT
1905	9/10/80			NVTP	TP56	GDC 01	36.8N	98 07.9E	S RAMA06WT
2124	9/10/80			NVTP	TP57	GDC 01	43.9N	98 20.3E	S RAMA06WT
2211	9/10/80			NVTP	TP58	GDC 01	46.4N	98 18.3E	S RAMA06WT
0530	10/10/80			NVTP	TP59	GDC 01	23.4N	97 35.8E	S RAMA06WT
0615	10/10/80			NVTP	TP60	GDC 01	26.4N	97 33.4E	S RAMA06WT
0930	10/10/80			NVTP	TP61	GDC 01	41.7N	97 48.2E	S RAMA06WT
1845	10/10/80			NVTP	TP62	GDC 01	40.0N	96 57.8E	S RAMA06WT
0008	11/10/80			NVTP	TP63	GDC 01	52.8N	96 29.3E	S RAMA06WT
0530	11/10/80			NVTP	TP64	GDC 02	15.2N	96 23.8E	S RAMA06WT
1155	11/10/80			NVTP	TP65	GDC 01	26.3N	95 59.6E	S RAMA06WT
1530	11/10/80			NVTP	TP66	GDC 01	35.1N	96 35.9E	S RAMA06WT
1832	11/10/80			NVTP	TP67	GDC 01	12.1N	96 57.3E	S RAMA06WT
2340	11/10/80			NVTP	TP68	GDC 00	30.6N	97 30.0E	S RAMA06WT
0105	12/10/80			NVTP	TP69	GDC 00	29.9N	97 42.5E	S RAMA06WT
0550	12/10/80			NVTP	TP70	GDC 00	32.2N	97 51.4E	S RAMA06WT
0750	12/10/80			NVTP	TP71	GDC 00	26.6N	97 39.2E	S RAMA06WT
1100	12/10/80			NVTP	TP72	GDC 00	47.3N	97 19.9E	S RAMA06WT
1150	12/10/80			NVTP	TP73	GDC 00	47.7N	97 13.0E	S RAMA06WT
1557	12/10/80			NVTP	TP74	GDC 00	16.3N	97 32.0E	S RAMA06WT
1724	12/10/80			NVTP	TP75	GDC 00	21.6N	97 22.4E	S RAMA06WT
1949	12/10/80			NVTP	TP76	GDC 00	36.9N	97 36.1E	S RAMA06WT
2228	12/10/80			NVTP	TP77	GDC 00	34.4N	97 14.4E	S RAMA06WT
0039	13/10/80			NVTP	TP78	GDC 00	41.8N	97 29.3E	S RAMA06WT
0646	13/10/80			NVTP	TP79	GDC 00	36.5N	97 30.1E	S RAMA06WT
0800	13/10/80			NVTP	TP80	GDC 00	29.8N	97 29.9E	S RAMA06WT
1523	13/10/80			NVTP	TP81	GDC 00	11.5N	96 52.9E	S RAMA06WT
0024	14/10/80			NVTP	TP82	GDC 00	10.8N	97 04.5E	S RAMA06WT
0048	14/10/80			NVTP	TP83	GDC 00	10.0N	97 02.6E	S RAMA06WT
0250	14/10/80			NVTP	TP84	GDC 00	01.5S	96 59.7E	S RAMA06WT
0444	14/10/80			NVTP	TP85	GDC 00	10.6N	97 01.5E	S RAMA06WT
0535	14/10/80			NVTP	TP86	GDC 00	07.2N	96 58.5E	S RAMA06WT
0649	14/10/80			NVTP	TP87	GDC 00	06.4N	97 07.2E	S RAMA06WT
0700	14/10/80			NVTP	TP88	GDC 00	05.7N	97 07.8E	S RAMA06WT
1602	15/10/80			NVTP	TP89	GDC 00	08.1N	96 55.4E	S RAMA06WT
1624	15/10/80			NVTP	TP90	GDC 00	10.3N	96 54.9E	S RAMA06WT
2048	15/10/80			NVTP	TP91	GDC 00	30.4N	97 16.7E	S RAMA06WT
2157	15/10/80			NVTP	TP92	GDC 00	36.2N	97 13.9E	S RAMA06WT
0145	16/10/80			NVTP	TP93	GDC 00	26.1N	96 51.6E	S RAMA06WT
0237	16/10/80			NVTP	TP94	GDC 00	31.1N	96 47.6E	S RAMA06WT
0710	16/10/80			NVTP	TP95	GDC 00	46.1N	97 11.9E	S RAMA06WT
0745	16/10/80			NVTP	TP96	GDC 00	47.7N	97 08.3E	S RAMA06WT
1015	16/10/80			NVTP	TP97	GDC 00	42.7N	96 55.6E	S RAMA06WT
1225	16/10/80			NVTP	TP98	GDC 00	32.9N	97 04.0E	S RAMA06WT
1525	16/10/80			NVTP	TP99	GDC 00	20.3N	96 52.8E	S RAMA06WT
1746	16/10/80			NVTP	TP100	GDC 00	03.1N	96 59.9E	S RAMA06WT

GMT D /M /Y TIME DATE	LOC LOC TIME TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
0930 17/10/80		NVTP	TP101	GDC 00	01.4N	96 59.7E	S RAMA06WT
1330 17/10/80		NVTP	TP102	GDC 00	15.8N	96 57.1E	S RAMA06WT
0028 21/10/80		NVTP	TP103	GDC 00	03.4N	97 04.4E	S RAMA06WT
1726 21/10/80		NVTP	TP104	GDC 01	08.7N	94 28.1E	S RAMA06WT
1738 21/10/80		NVTP	TP104A	GDC 01	09.5N	94 26.1E	S RAMA06WT
1934 21/10/80		NVTP	TP104B	GDC 01	01.6N	94 41.3E	S RAMA06WT
0840 23/10/80		NVTP	TP105	GDC 02	36.7N	95 42.0E	S RAMA06WT
1835 23/10/80		NVTP	TP106	GDC 04	04.4N	95 07.8E	S RAMA06WT
0312 24/10/80		NVTP	TP107	GDC 05	23.9N	94 55.4E	S RAMA06WT
0705 24/10/80		NVTP	TP108	GDC 05	44.6N	95 19.8E	S RAMA06WT
1045 24/10/80		NVTP	TP109	GDC 05	58.7N	95 50.1E	S RAMA06WT
1355 24/10/80		NVTP	TP110	GDC 05	31.8N	95 57.7E	S RAMA06WT
1600 24/10/80		NVTP	TP111	GDC 05	36.7N	96 16.8E	S RAMA06WT
1840 24/10/80		NVTP	TP112	GDC 05	15.9N	96 31.7E	S RAMA06WT
2139 24/10/80		NVTP	TP113	GDC 05	35.7N	96 51.7E	S RAMA06WT
0130 25/10/80		NVTP	TP114	GDC 05	12.6N	97 11.0E	S RAMA06WT
0744 25/10/80		NVTP	TP115	GDC 05	29.9N	98 00.3E	S RAMA06WT