

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

VULCAN EXPEDITION

LEG 6

Punta Arenas, Chile (20 January 1981)  
to  
Punta Arenas, Chile (19 February 1981)

R/V Melville

Chief Scientist - T. Foster (U. C. Santa Cruz)

Resident Marine Tech - J. Boaz

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

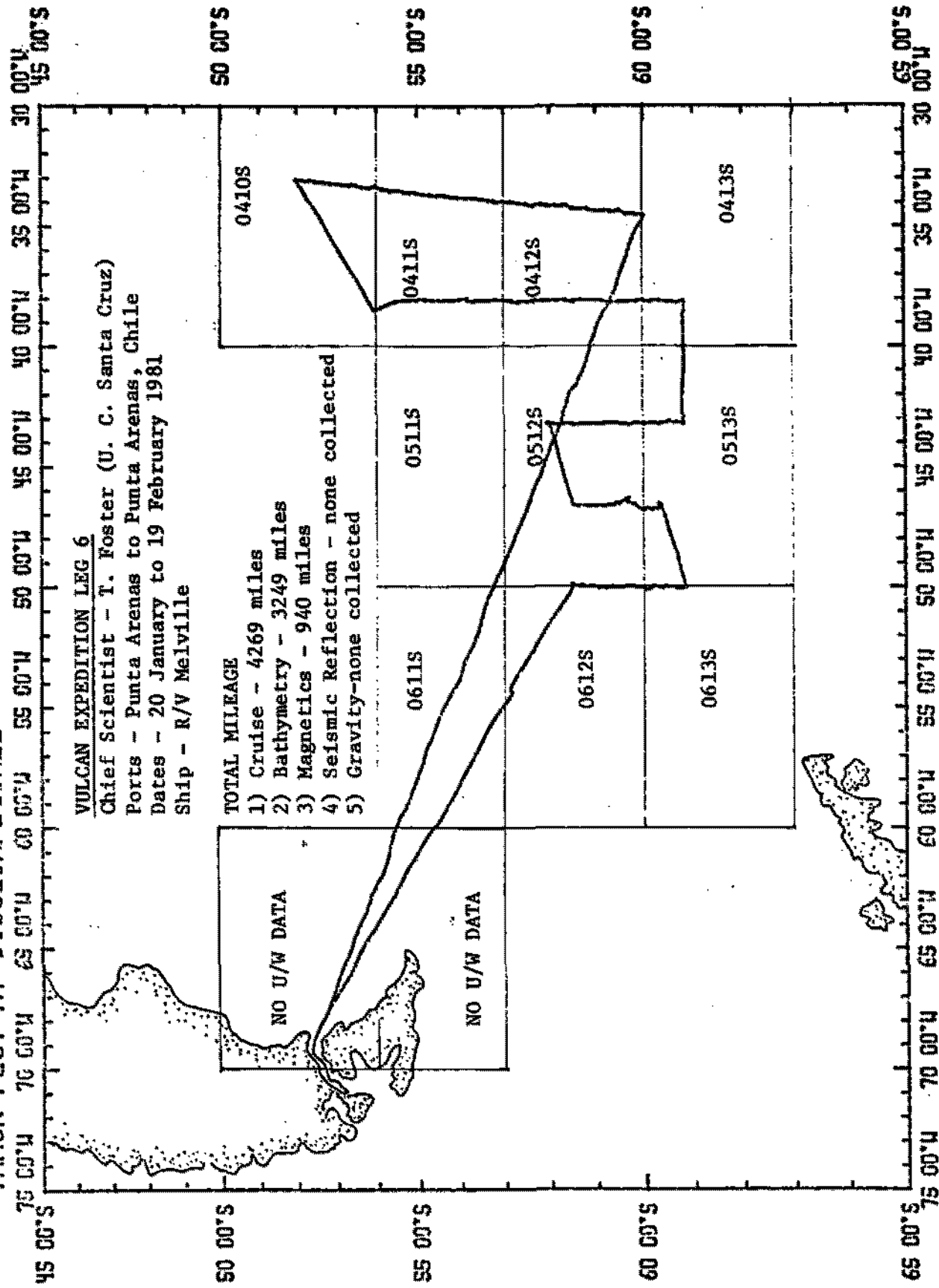
Data Collection Funded by NSF  
Grant Number OCE80-22996 and OCE80-24472  
Data Processing Funded by SIA, NSF and ONR

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.

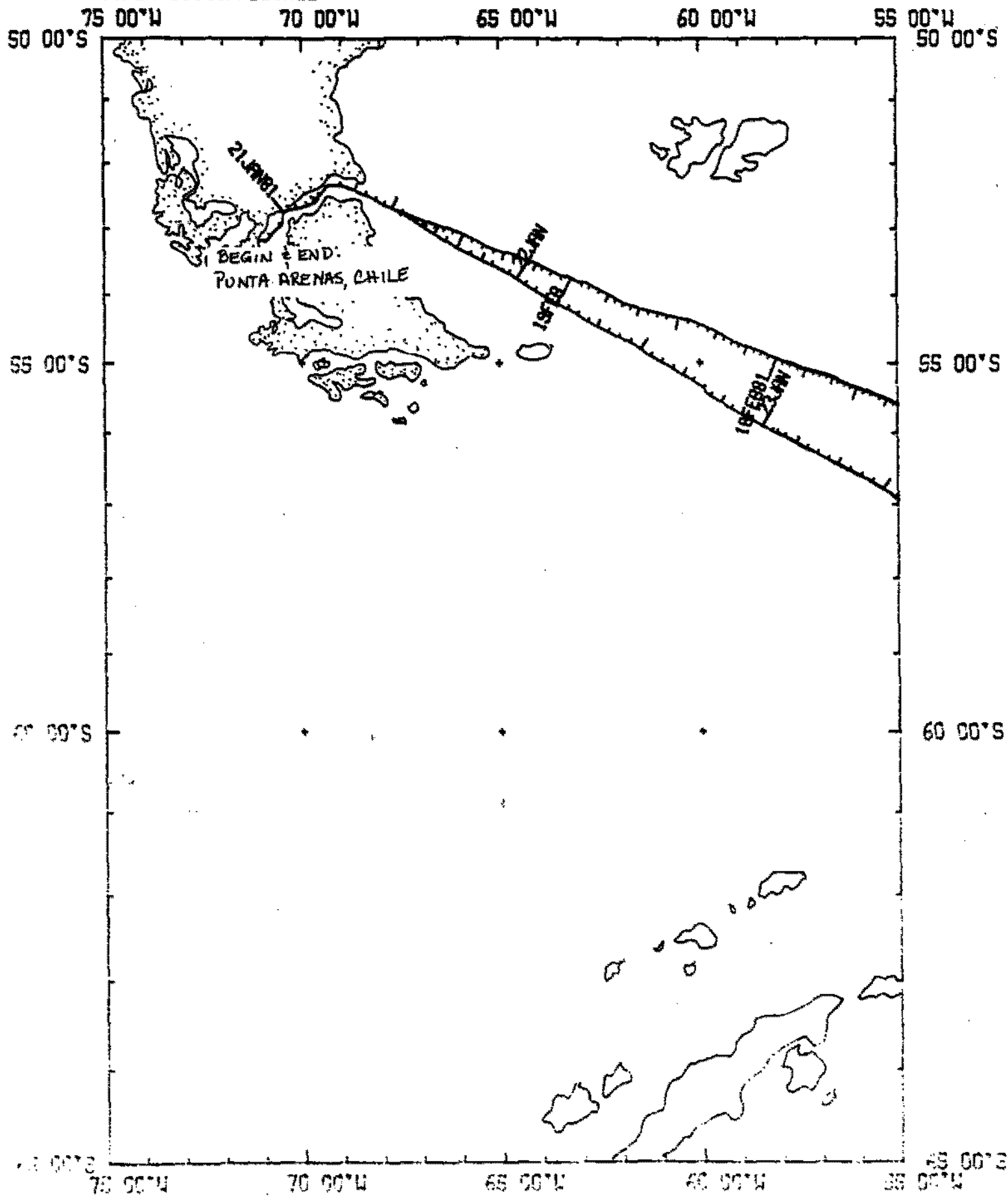
VLCN06MV

TRACK PLOT AT 1632IN/DEGREE



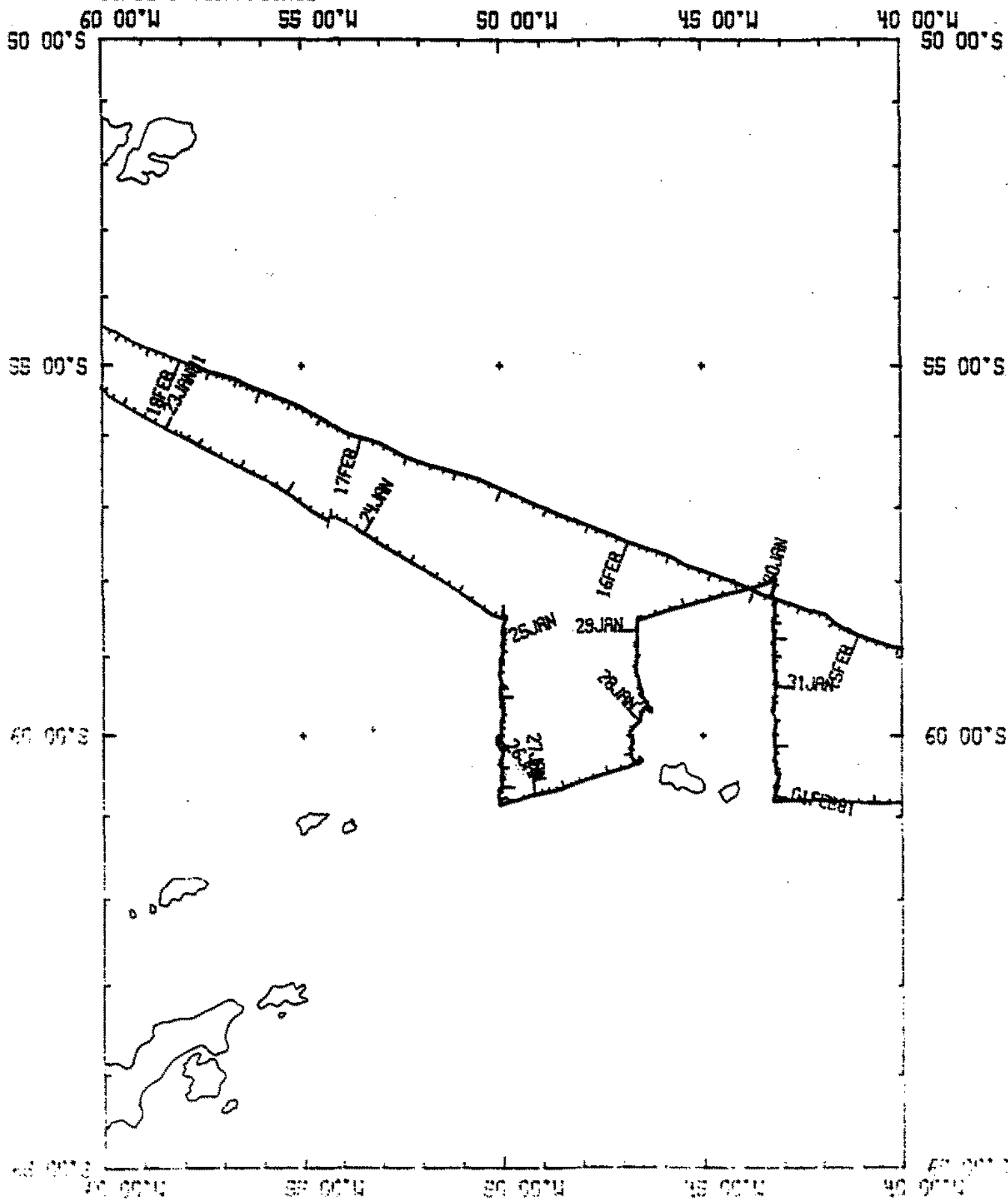
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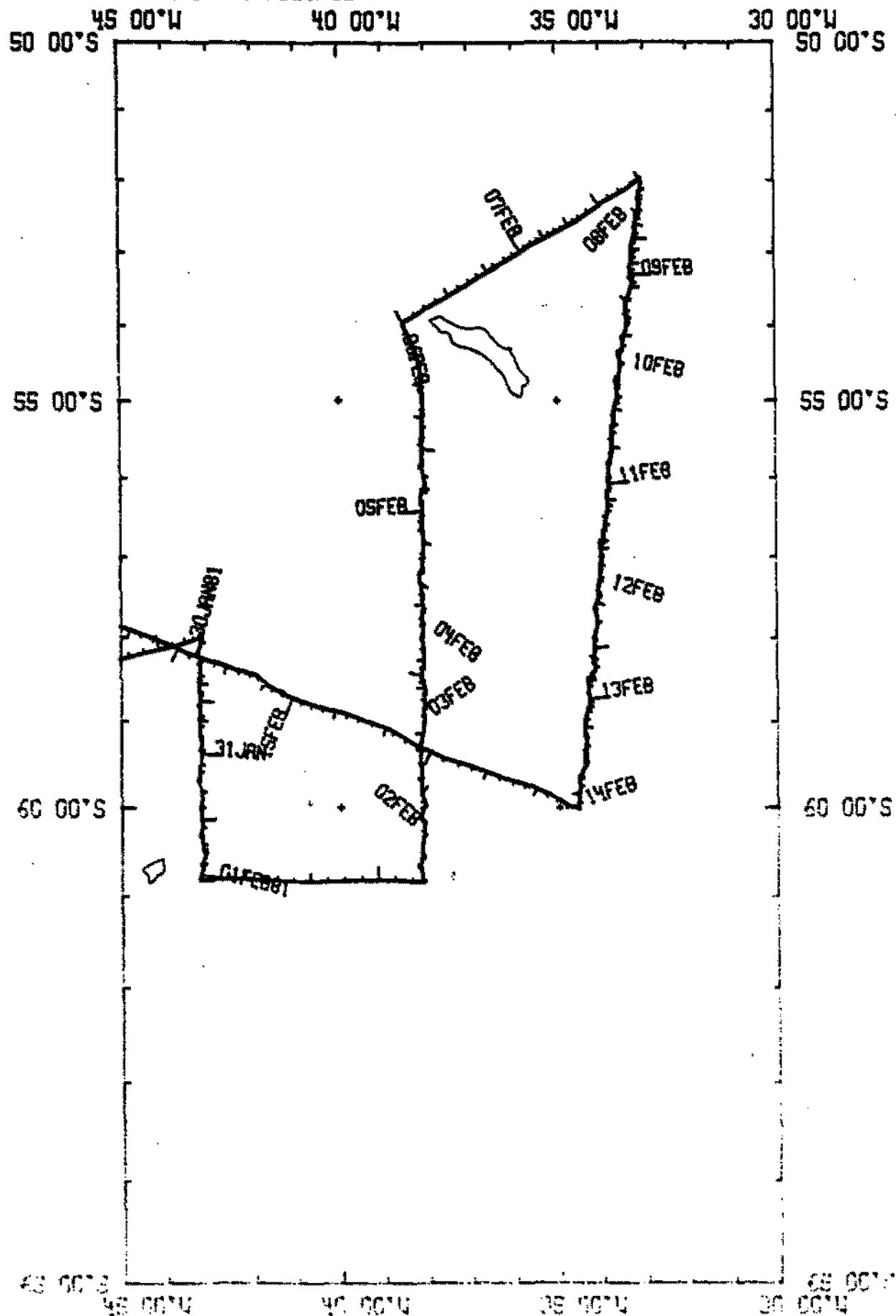
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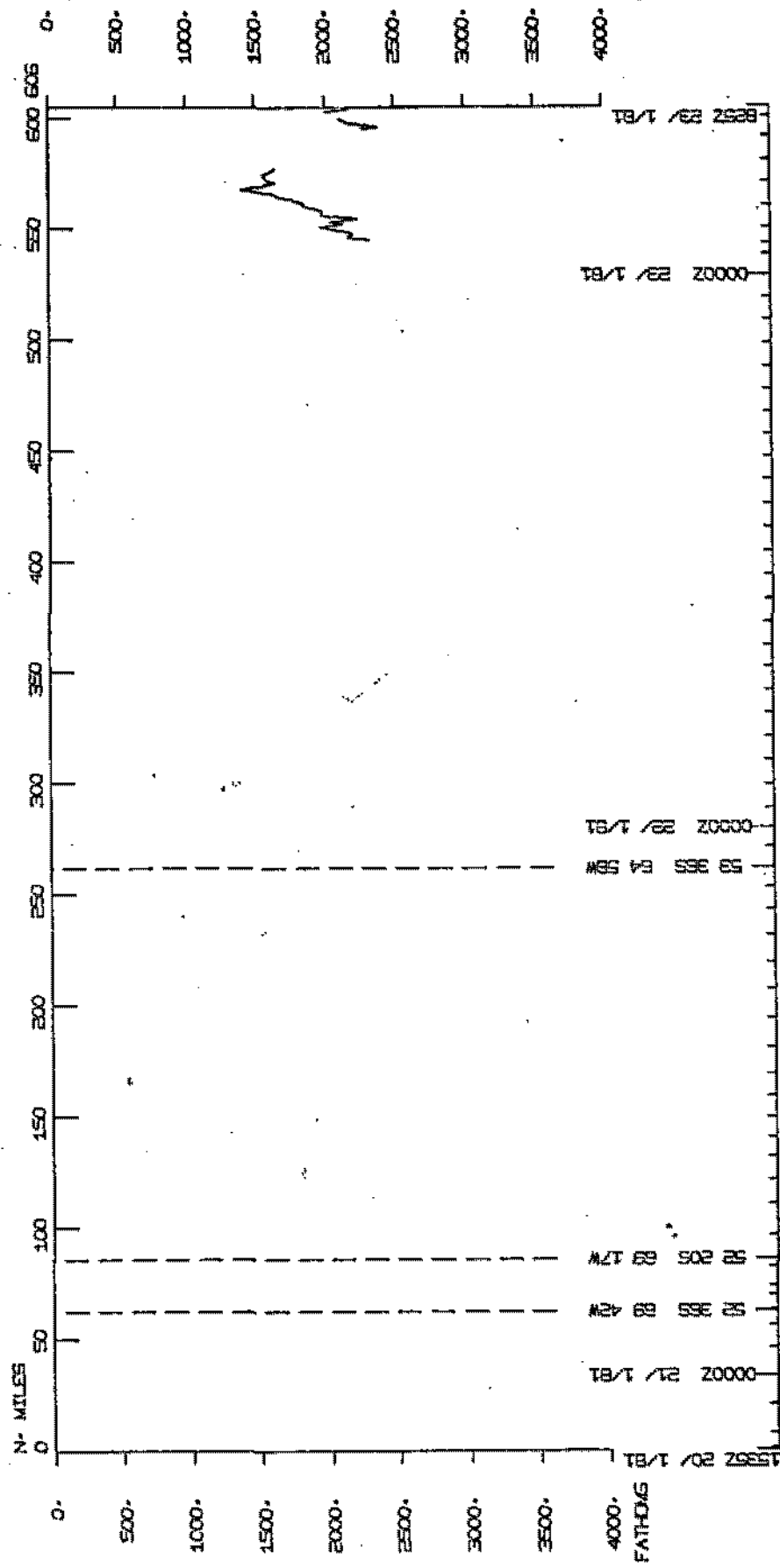
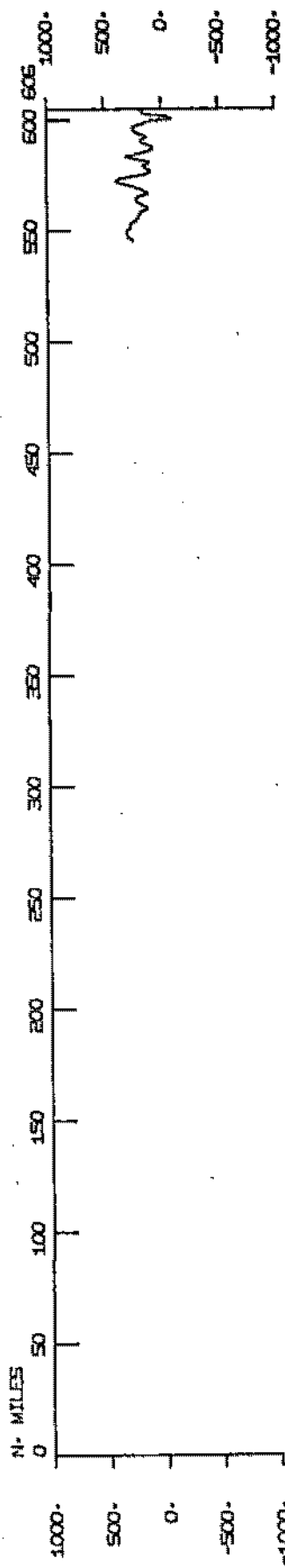


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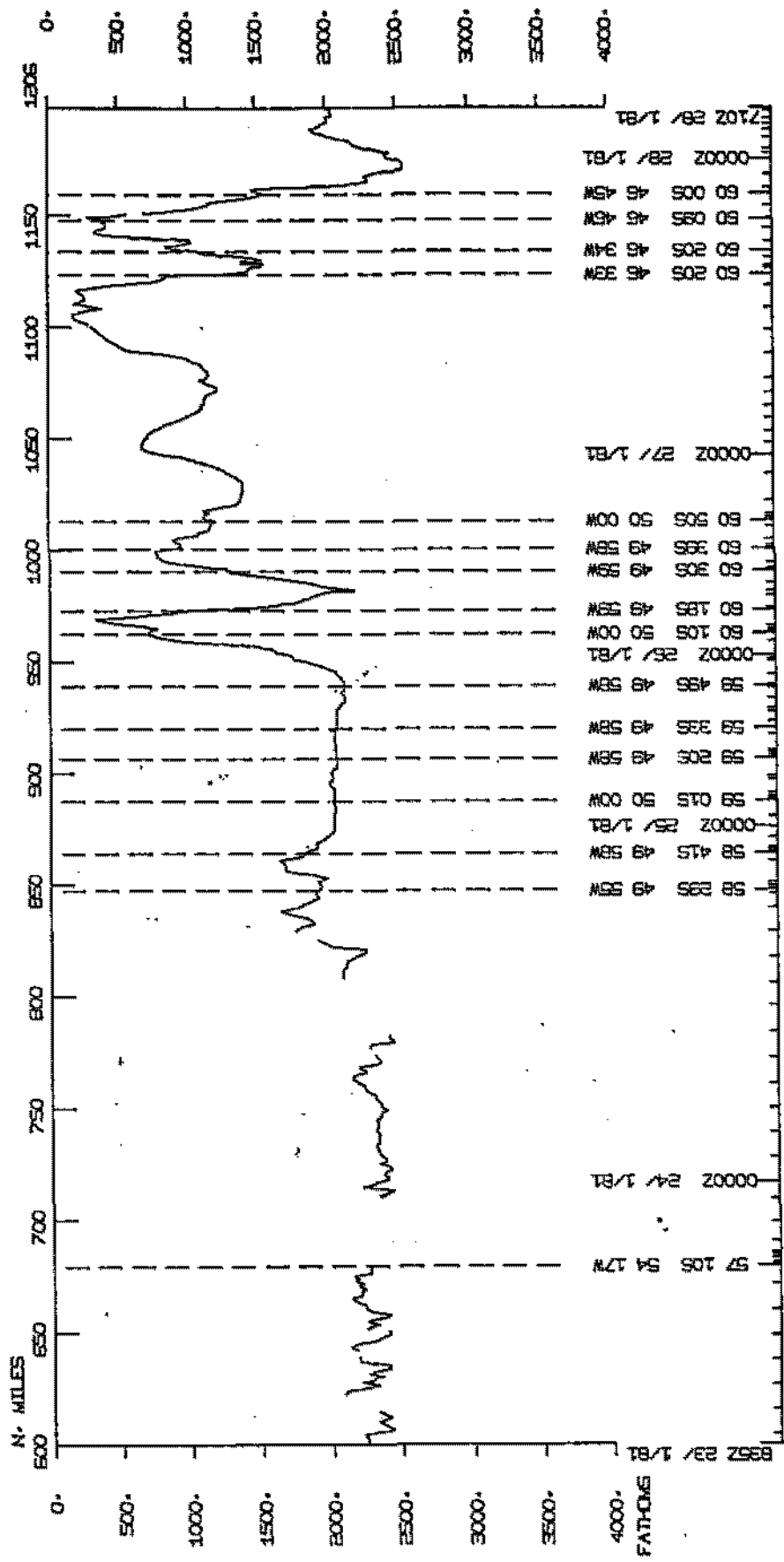
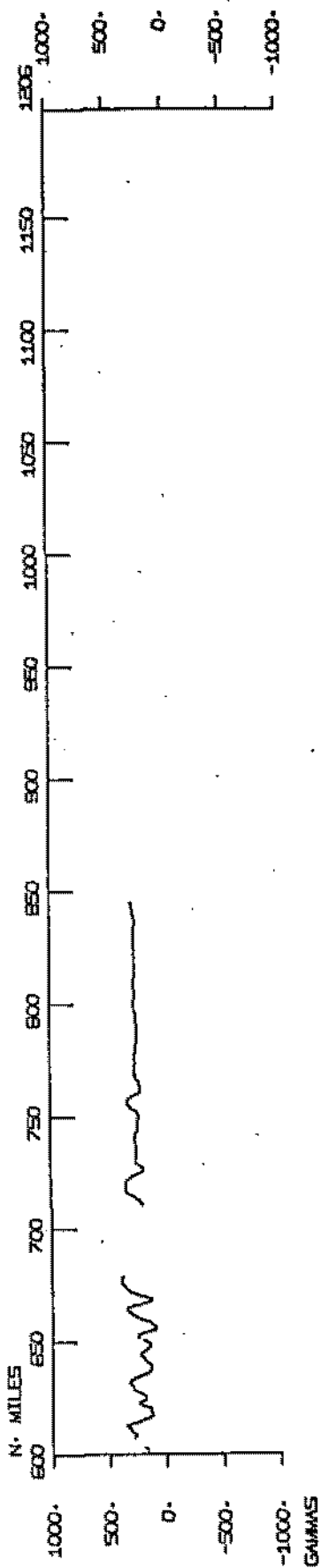
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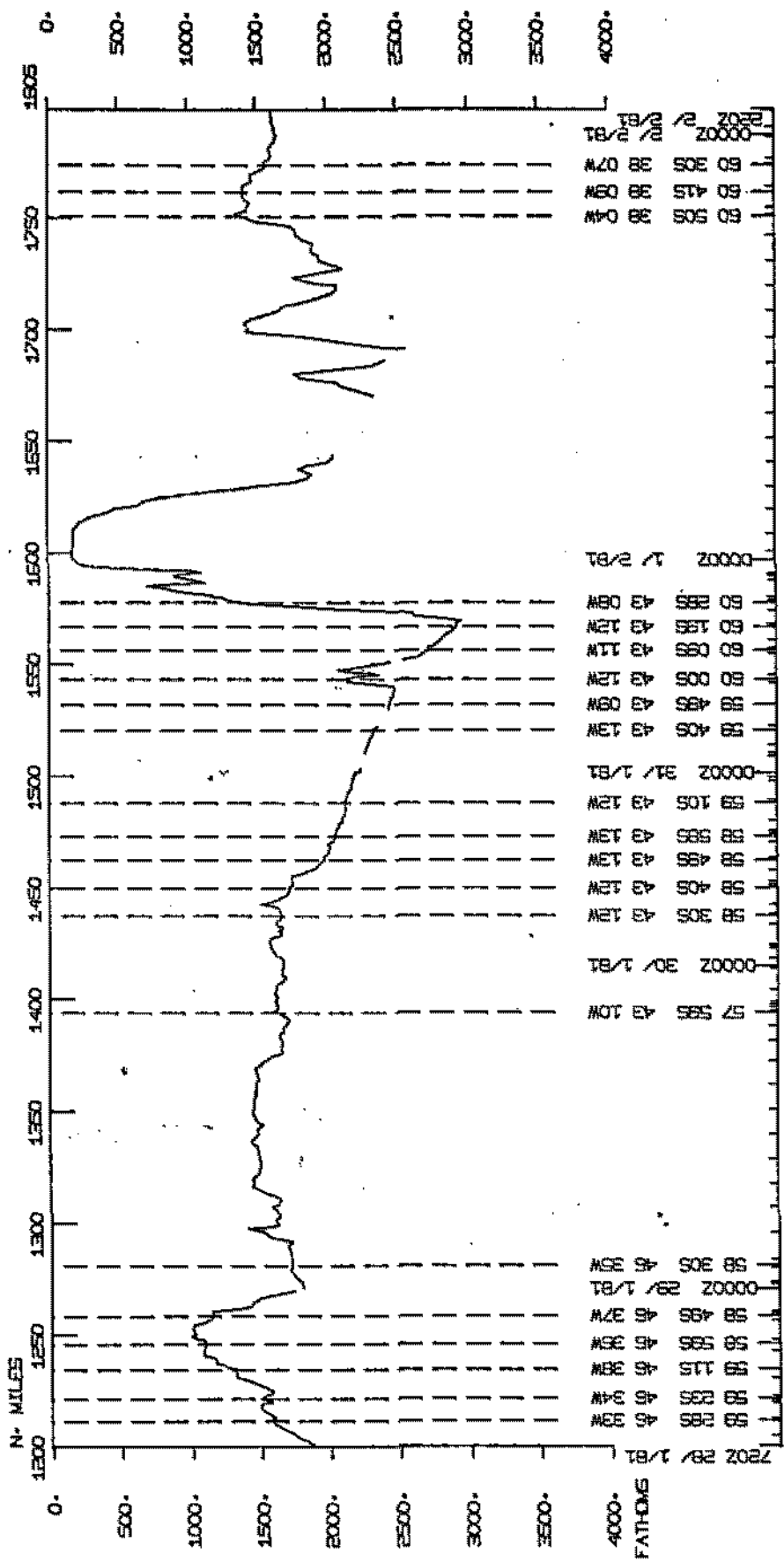
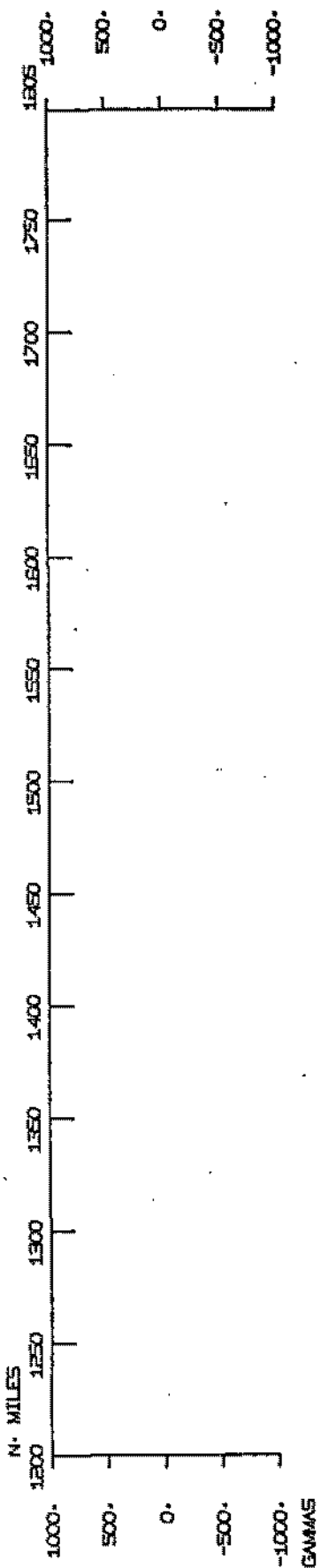
# VLCNOBMV



# VLCNOBMV

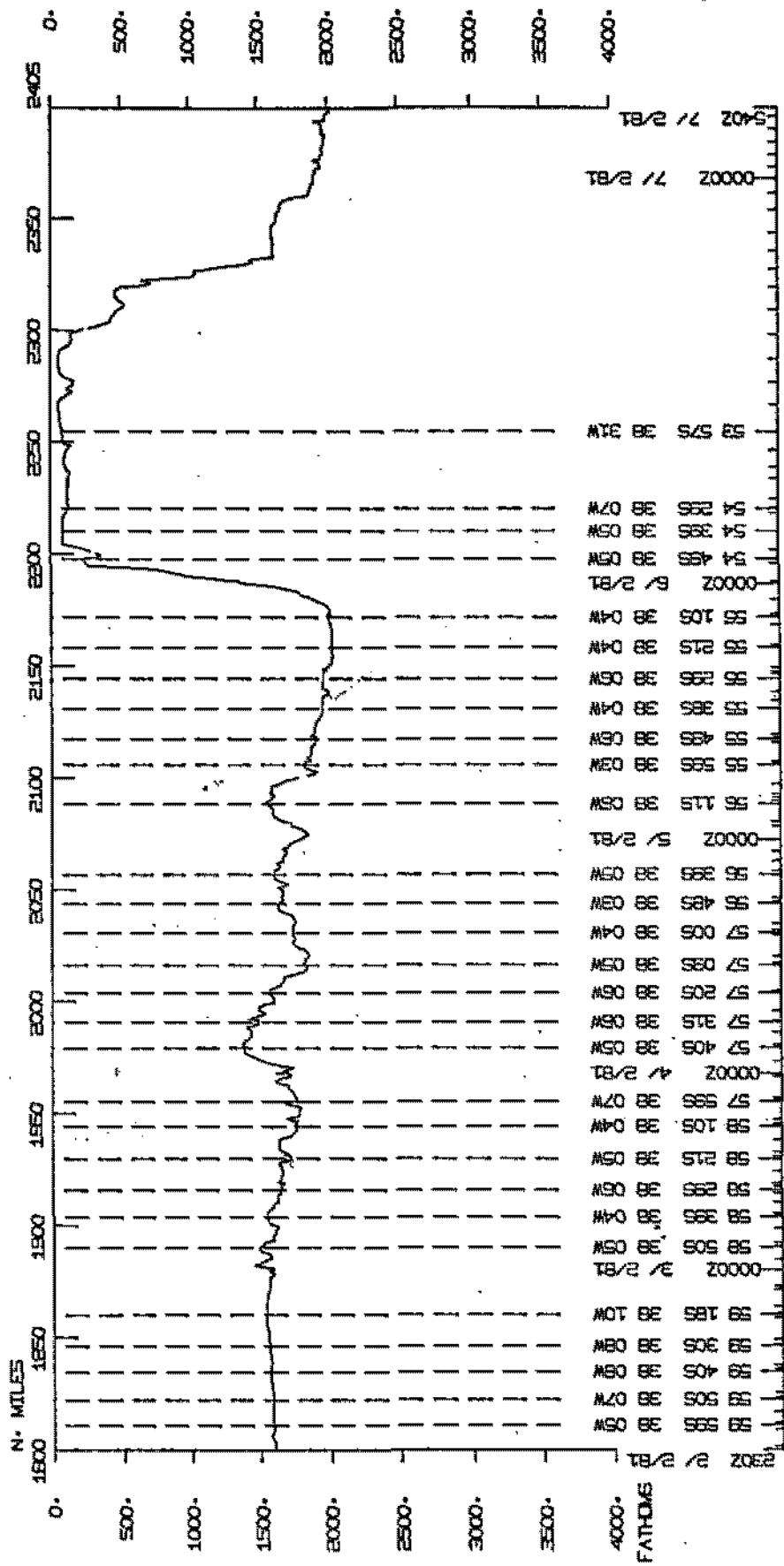
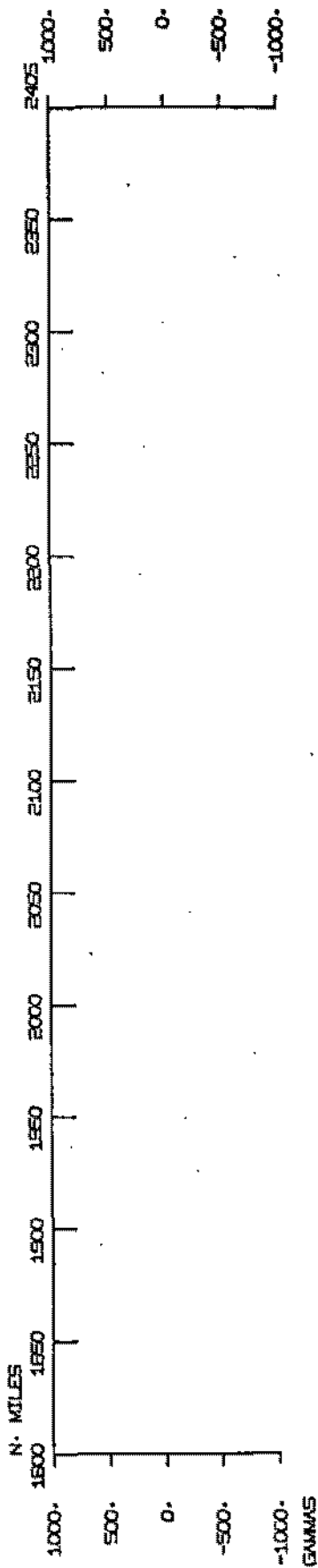


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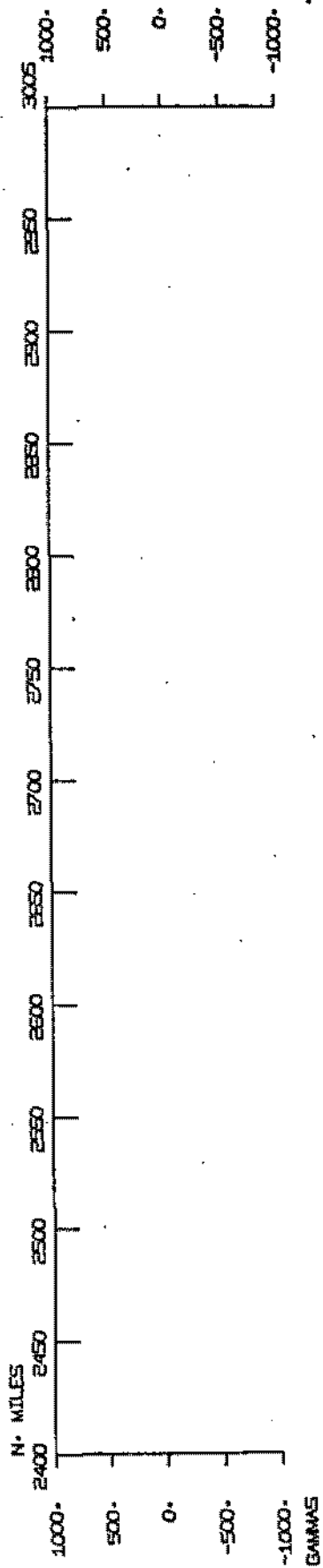
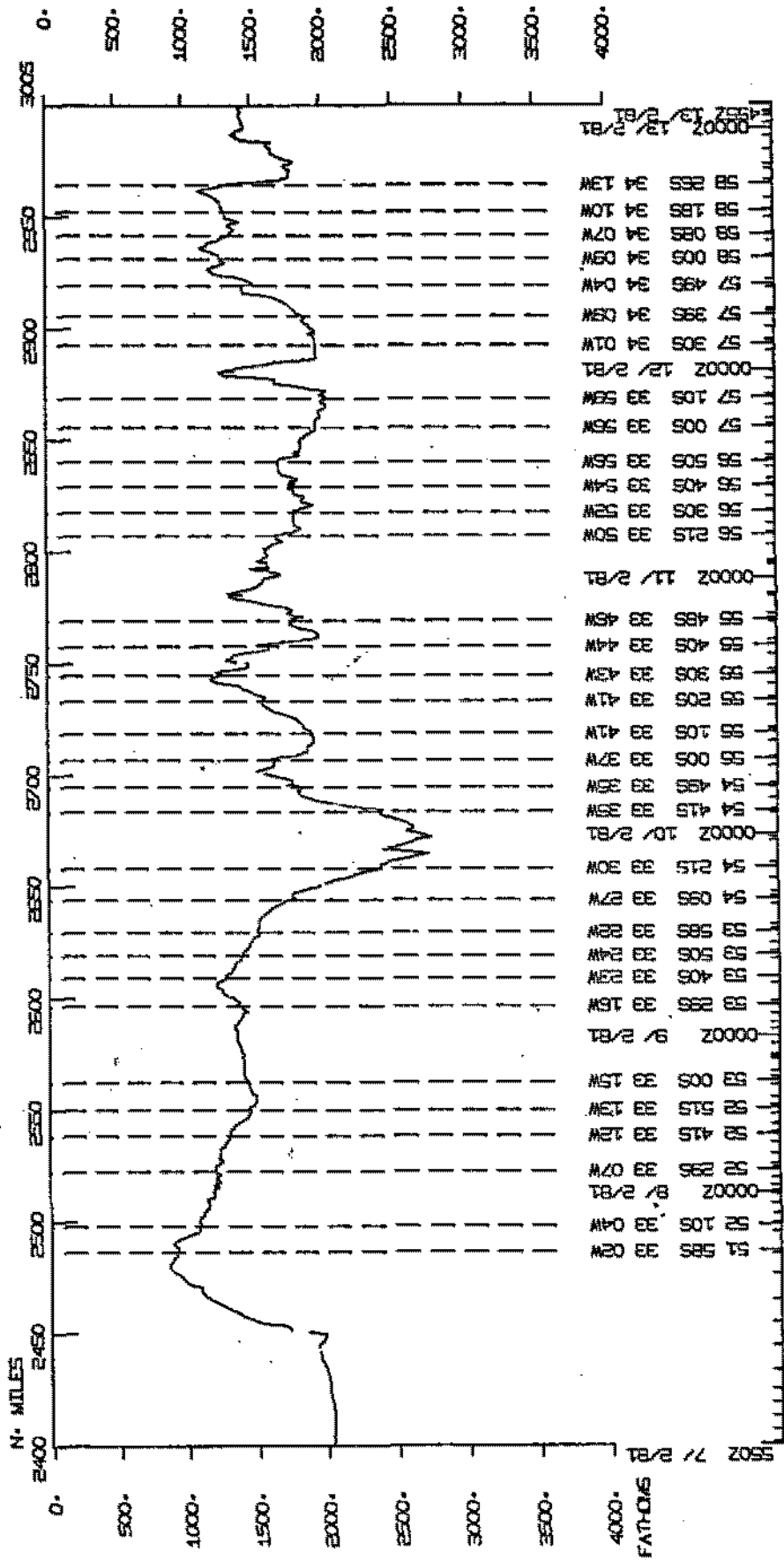




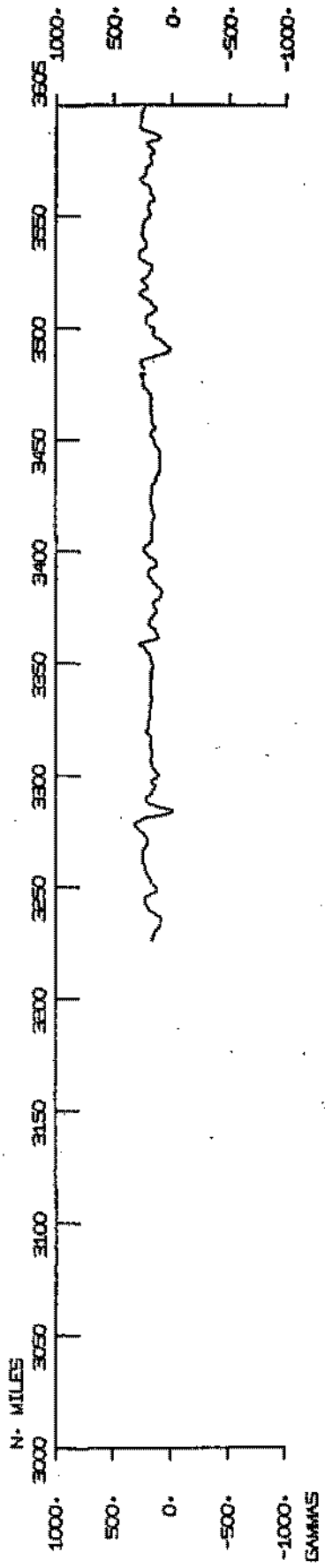
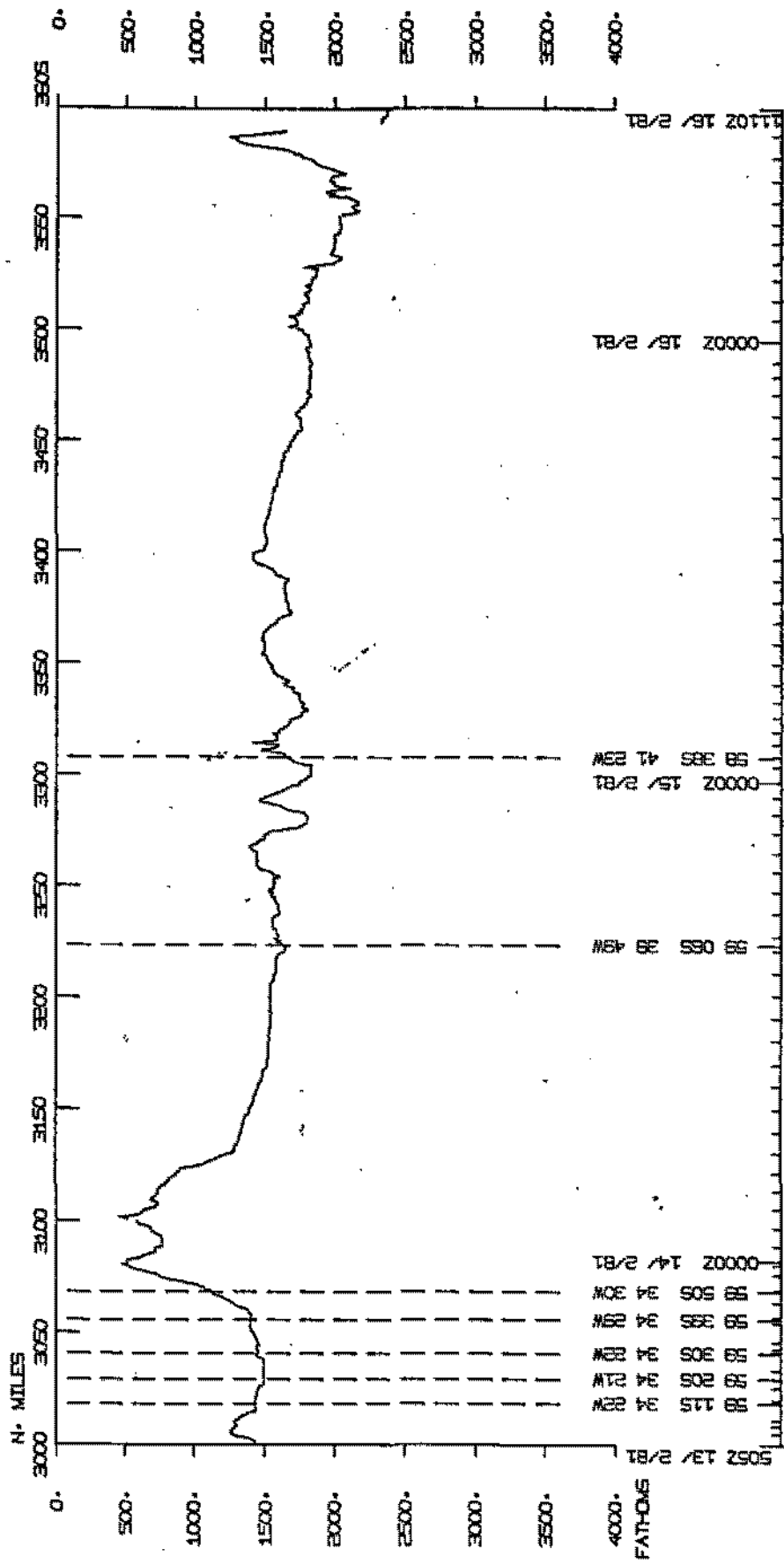
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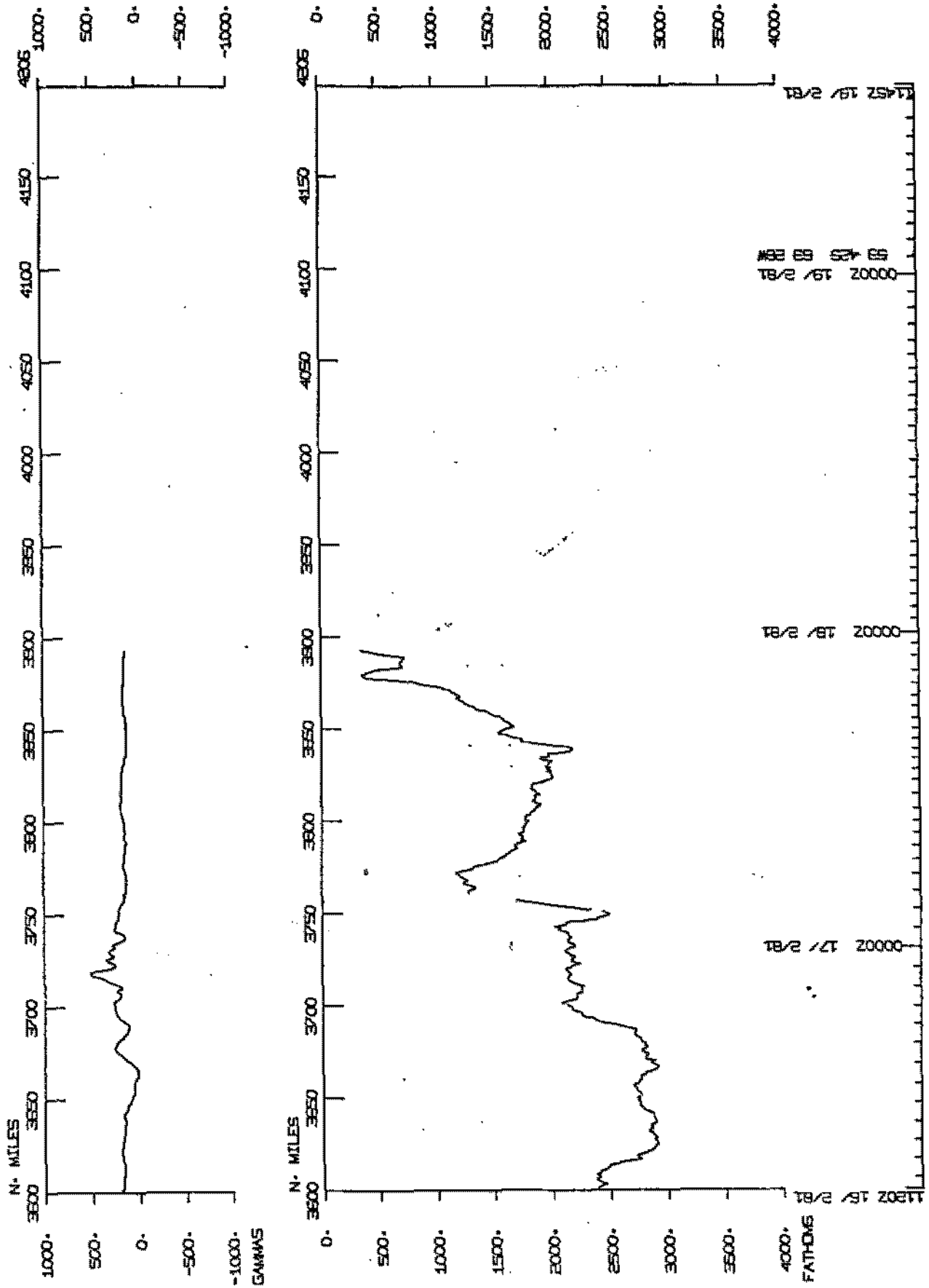
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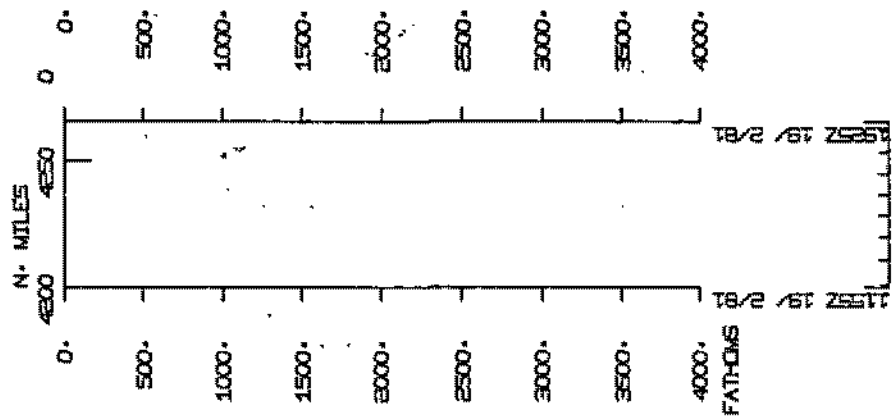
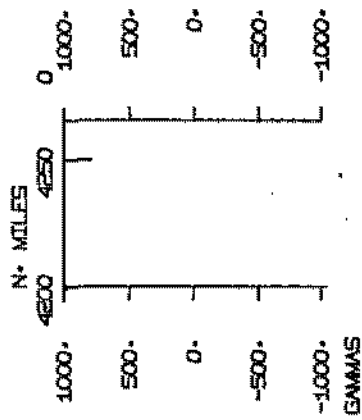
# VLCNOBMV



# VLCNOBMV



# VLCNOBMV



GENERATED 06 MAY 81

(VLCN06MV) 零零零

20JAN81 - PUNTA ARENAS, CH.  
TO  
19FEB81 - PUNTA ARENAS, CH.

SHIP - R/V MELVILLE (SIO)

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

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

DISP	TYPE										TOTAL
	DP	HC	LB	MG	ON	PE	PS	SS	TD		
CHL	I					4				I	4
GDC	I	3		1	1					I	5
IMR	I		12		72	4	1			I	89
MTG	I					2				I	2
NOA	I	55				3				I	58
ORD	I		4			3		34	133	I	174
PCF	I		133			2				I	135
SIX	I					4				I	4
TAM	I					1				I	1
UCC	I			1		1				I	2
UWA	I					1				I	1
TOTAL	I	58	149	2	1	72	25	1	34	133	I 475

SAMPLE 'TYPE' CODES USED ABOVE

DP = DEPTH  
 HC = HYDROGRAPHIC CAST  
 LB = LOG BOOKS  
 MG = MAGNETICS (TOWED VEHICLE, SURFACE, TOTAL FIELD)  
 ON = OPEN NET  
 PE = PERSONNEL IN SCIENTIFIC PARTY  
 PS = SUBMERGED PHOTOMETER  
 SS = SURFACE SAMPLE  
 TD = SALINITY/TEMPERATURE/DEPTH (STD)

SAMPLE 'DISP' CODES USED ABOVE

CHL = CHILE  
 GDC = GEOLOGICAL DATA CENTER -- S. SMITH (EXT. 2752)  
 IMR = INSTITUTE MARINE RESOURCES (EXT. 2866)  
 MTG = MARINE TECHNOLOGY GROUP (EXT. 4194)  
 NOA = NATIONAL OCEANOGR. + ATMOSPHER. ADMINISTRATION  
 ORD = OCEAN RESEARCH DIVISION (EXT. 2857)  
 PCF = PHYSICAL AND CHEMICAL DATA FACILITY (EXT. 2240)  
 SIX = SCRIPPS INSTITUTION NON-EMPLOYEE -- CONTACT D. UTTER (EXT. 3675)  
 TAM = TEXAS A&M UNIVERSITY  
 UCC = UNIV. CALIF. SANTA CRUZ  
 UWA = UNIV. OF WASHINGTON, SEATTLE

GMT D /M /Y	LOC	LOC	CODE	SAMPLE IDENT.	CODE	06MAY81	PAGE	1
TIME DATE	TIME TZ	SAMP	DISP	LAT.	LONG.	LEG-SHIP	CRUISE	
VULCAN LEG 06 SAMPLE INDEX					VLCN06MV			

### \*\*\* PORTS \*\*\*

2125 20/ 1/81	LGPT B PUNTA ARENAS, CH.	53 11.0S	70 54.3W	S VLCN06MV
1926 19/ 2/81	LGPT E PUNTA ARENAS, CH.	52 43.1S	67 33.4W	S VLCN06MV

### \*\*\*PERSONNEL\*\*\*

*** NAME ***	*** TITLE ***	*** AFFILIATION ***
1 FOSTER, T.	CHIEF SCIENTIST	UNIV. CALIF. SANTA CRUZ
2 BOAZ, J. T.	RESIDENT TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
3 HENRY, A.	COMPUTER TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
4 HOLM HANSEN, O.	SCIENTIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
5 BRINTON, E.	SCIENTIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
6 MIDDLETON, J.	SCIENTIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
7 MICHEL, R.	SCIENTIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
8 MACAULAY, M.	SCIENTIST	NATIONAL OCEANOGRAPHIC + ATMOSPHERIC ADMINISTRATION
9 ENGLISH, T.	SCIENTIST	UNIV. OF WASHINGTON, SEATTLE
10 IKEDA, T. (AUS)	SCIENTIST	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT. 3675)
11 HEWES, C.	MARINE TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
12 ANTEZANA, T.	SCIENTIST	CHILE
13 ANTEZANA, K.	TECHNICIAN	CHILE
14 HESTER, A.	MARINE TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
15 BRINTON, E.	VOLUNTEER	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT. 3675)
16 GARRISON, J.	TECHNICIAN	NATIONAL OCEANOGRAPHIC + ATMOSPHERIC ADMINISTRATION
17 FAHEY, M.	SCIENTIST	NATIONAL OCEANOGRAPHIC + ATMOSPHERIC ADMINISTRATION
18 PADEN, C.	MARINE TECHNICIAN	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
19 GRIFFIN, S.	MARINE TECHNICIAN	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
20 WEAVER, E. (SAN JOSE)	SCIENTIST	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT. 3675)
21 GUFFY, J.	TECHNICIAN	TEXAS A&M UNIVERSITY
22 SANCHEZ, F.	ELEC. TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
23 MITCHELL, G. (USC)	STUDENT	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT. 3675)
24 RONNER, V.	STUDENT	CHILE
25 MARIN, V.	STUDENT	CHILE

\*\*\*NOTES\*\*\* AN 'X' IN THE (BEGIN/END) 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. (MOUNTED 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 T2	SAMP		DISP			CRUISE

06MAY81 PAGE 2

\*\*\*\* UNDERWAY DATA CURATOR - STUART M. SMITH EXT. 2752 \*\*\*\*

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

1200 24/ 1/81	LBUW B DEPTHS - 10 MINS.	UCC 58 29.2S	49 58.3W S	VLCN06MV
1100 14/ 2/81	LBUW E SURVEY FOR FOSTER	UCC 59 25.6S	37 37.0W S	VLCN06MV
0230 23/ 1/81	LBUW B UNDERWAY LOG	GDC 56 01.3S	57 59.0W S	VLCN06MV
2230 17/ 2/81	LBUW E UNDERWAY LOG	GDC 54 59.0S	57 49.5W S	VLCN06MV

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

0230 23/ 1/81	DPR3 B PDR 3.5KHZ R-01	GDC 56 01.3S	57 59.0W S	VLCN06MV
0036 28/ 1/81	DPR3 E PDR 3.5KHZ R-01	GDC 59 48.6S	46 33.7W S	VLCN06MV
0041 28/ 1/81	DPRT B PDR 12 KHZ R-02	GDC 59 48.8S	46 33.7W S	VLCN06MV
1048 10/ 2/81	DPRT E PDR 12 KHZ R-02	GDC 55 17.0S	33 41.8W S	VLCN06MV
1100 10/ 2/81	DPR3 B PDR 3.5KHZ R-03	GDC 55 19.0S	33 41.8W S	VLCN06MV
2235 17/ 2/81	DPR3 E PDR 3.5KHZ R-03	GDC 54 58.8S	57 50.2W S	VLCN06MV

\*\*\* MAGNETOMETER \*\*\*

0240 23/01/81	MGRA B MAGNETICS R-01	GDC 56 01.6S	57 57.9W F	VLCN06MV
2230 17/02/81	MGRA E MAGNETICS R-01	GDC 54 59.0S	57 49.5W S	VLCN06MV

\*\*\*CONDUCTIVITY, TEMPERATURE, DEPTH\*\*\*

1150 24/ 1/81	TDCT 81001	1000M R12	ORD 58 29.1S	49 59.4W S	VLCN06MV
1910 24/ 1/81	TDCT 81002	1000M R12	ORD 58 41.1S	49 55.8W S	VLCN06MV
2236 24/ 1/81	TDCT 81032	1000M R12	ORD 58 50.7S	49 58.3W S	VLCN06MV
0305 25/ 1/81	TDCT 81004	1000M R12	ORD 59 02.6S	50 00.1W S	VLCN06MV
0608 25/ 1/81	TDCT 81005	1000M R12	ORD 59 11.6S	50 01.2W S	VLCN06MV
0805 25/ 1/81	TDCT 81006	1000M R12	ORD 59 21.0S	49 58.8W S	VLCN06MV
1247 25/ 1/81	TDCT 81007	1000M R12	ORD 58 51.2S	49 57.9W S	VLCN06MV
1520 25/ 1/81	TDCT 81008	1000M R12	ORD 59 38.7S	49 58.5W S	VLCN06MV
1924 25/ 1/81	TDCT 81009	1000M R12	ORD 59 49.1S	49 59.0W S	VLCN06MV
2234 25/ 1/81	TDCT 81010	1000M R12	ORD 60 00.0S	50 01.3W S	VLCN06MV
0130 26/ 1/81	TDCT 81011	1000M R12	ORD 60 10.2S	50 00.9W S	VLCN06MV
0627 26/ 1/81	TDCT 81012	1000M R12	ORD 60 21.3S	50 00.8W S	VLCN06MV
0930 26/ 1/81	TDCT 81013	1000M R12	ORD 60 30.2S	49 59.5W S	VLCN06MV
1209 26/ 1/81	TDCT 81014	1000M R12	ORD 60 39.3S	49 58.6W S	VLCN06MV
1827 26/ 1/81	TDCT 81015	1000M R12	ORD 60 50.6S	50 00.6W S	VLCN06MV
1102 27/ 1/81	TDCT 81016	1000M R12	ORD 60 18.8S	46 31.4W S	VLCN06MV
1726 27/ 1/81	TDCT 81017	600M R12	ORD 60 09.8S	46 47.4W S	VLCN06MV
2033 27/ 1/81	TDCT 81018	1000M R12	ORD 60 00.6S	46 45.6W S	VLCN06MV

GMT D /M /Y		LOC LOC	CODE	SAMPLE IDENT.		CODE	06MAY81		PAGE	3	LEG-SHIP CRUISE
TIME	DATE	TIME TZ	SAMP			DISP	LAT.	LONG.			
0010	28/ 1/81		TDCT	81019	1000M R12	ORD 59	48.75	46 32.7W	S	VLCN06MV	
0507	28/ 1/81		TDCT	81020-0001	900M R12	ORD 59	40.55	46 22.4W	S	VLCN06MV	
0917	28/ 1/81		TDCT	81021	1000M R12	ORD 59	28.9S	46 32.6W	S	VLCN06MV	
1142	28/ 1/81		TDCT	81022	1000M R12	ORD 59	22.7S	46 34.4W	S	VLCN06MV	
1613	28/ 1/81		TDCT	81023	1000M R12	ORD 59	11.2S	46 38.5W	S	VLCN06MV	
1850	28/ 1/81		TDCT	81024	1000M R12	ORD 58	59.8S	46 37.4W	S	VLCN06MV	
2212	28/ 1/81		TDCT	81025	1000M R12	ORD 58	49.9S	46 37.7W	S	VLCN06MV	
0010	29/ 1/81		TDCT	81026	1000M R12	ORD 58	37.6S	46 37.2W	S	VLCN06MV	
0402	29/ 1/81		TDCT	81027	1000M R12	ORD 58	30.5S	46 35.3W	S	VLCN06MV	
2013	29/ 1/81		TDCT	81028-0001	1000M R12	ORD 57	56.3S	43 10.7W	S	VLCN06MV	
2342	29/ 1/81		TDCT	81029	1000M R12	ORD 58	38.8S	46 36.9W	S	VLCN06MV	
0236	30/ 1/81		TDCT	81030	1000M R12	ORD 58	18.9S	43 13.1W	S	VLCN06MV	
0613	30/ 1/81		TDCT	81031	1000M R12	ORD 58	30.1S	43 13.0W	S	VLCN06MV	
0934	30/ 1/81		TDCT	81032	1000M R12	ORD 58	40.1S	43 11.0W	S	VLCN06MV	
1242	30/ 1/81		TDCT	81033	1000M R12	ORD 58	49.8S	43 13.4W	S	VLCN06MV	
1647	30/ 1/81		TDCT	81034-0001	1000M R12	ORD 58	58.8S	43 13.0W	S	VLCN06MV	
2028	30/ 1/81		TDCT	81035	1000M R12	ORD 59	10.7S	43 10.4W	S	VLCN06MV	
2204	30/ 1/81		TDCT	81036	1000M R12	ORD 59	20.1S	43 11.9W	S	VLCN06MV	
0105	31/ 1/81		TDCT	81037	1000M R12	ORD 59	30.5S	43 12.4W	S	VLCN06MV	
0430	31/ 1/81		TDCT	81038	1000M R12	ORD 59	40.9S	43 13.3W	S	VLCN06MV	
0718	31/ 1/81		TDCT	81039	1000M R12	ORD 59	49.4S	43 09.0W	S	VLCN06MV	
0932	31/ 1/81		TDCT	81040	1000M R12	ORD 60	00.7S	43 12.1W	S	VLCN06MV	
1210	31/ 1/81		TDCT	81041	1000M R12	ORD 60	09.6S	43 11.0W	S	VLCN06MV	
1540	31/ 1/81		TDCT	81042	1000M R12	ORD 60	19.3S	43 12.8W	S	VLCN06MV	
1847	31/ 1/81		TDCT	81043	1000M R12	ORD 60	29.1S	43 07.9W	S	VLCN06MV	
2128	31/ 1/81		TDCT	81044	1000M R12	ORD 60	39.1S	43 10.4W	S	VLCN06MV	
0017	1/ 2/81		TDCT	81045	1000M R12	ORD 60	48.6S	43 13.5W	S	VLCN06MV	
1518	1/ 2/81		TDCT	81046	1000M R12	ORD 60	50.2S	38 04.7W	S	VLCN06MV	
1800	1/ 2/81		TDCT	81047	1000M R12	ORD 60	41.3S	38 09.9W	S	VLCN06MV	
2024	1/ 2/81		TDCT	81048	1000M R12	ORD 60	30.1S	38 07.7W	S	VLCN06MV	
2257	1/ 2/81		TDCT	81049	1000M R12	ORD 60	19.9S	38 05.4W	S	VLCN06MV	
0142	2/ 2/81		TDCT	81050	1000M R12	ORD 60	09.1S	38 06.5W	S	VLCN06MV	
0545	2/ 2/81		TDCT	81051	1000M R12	ORD 59	59.6S	38 04.7W	S	VLCN06MV	
0810	2/ 2/81		TDCT	81052	1000M R12	ORD 59	49.7S	38 07.0W	S	VLCN06MV	
1103	2/ 2/81		TDCT	81053	1000M R12	ORD 59	40.0S	38 09.2W	S	VLCN06MV	
1404	2/ 2/81		TDCT	81054	1000M R12	ORD 59	29.4S	38 07.3W	S	VLCN06MV	
1739	2/ 2/81		TDCT	81055	1000M R12	ORD 59	18.8S	38 10.2W	S	VLCN06MV	
2033	2/ 2/81		TDCT	81056	1000M R12	ORD 59	08.6S	38 06.1W	S	VLCN06MV	
2340	2/ 2/81		TDCT	81057	1000M R12	ORD 59	00.7S	38 04.6W	S	VLCN06MV	
0201	3/ 2/81		TDCT	81058	1000M R12	ORD 58	50.6S	38 05.0W	S	VLCN06MV	
0600	3/ 2/81		TDCT	81059	1000M R12	ORD 58	40.0S	38 04.1W	S	VLCN06MV	
0948	3/ 2/81		TDCT	81060	1000M R12	ORD 58	30.5S	38 07.3W	S	VLCN06MV	
1305	3/ 2/81		TDCT	81061	1000M R12	ORD 58	21.3S	38 05.6W	S	VLCN06MV	
1715	3/ 2/81		TDCT	81062	1000M R12	ORD 58	10.2S	38 04.3W	S	VLCN06MV	
2009	3/ 2/81		TDCT	81063	1000M R12	ORD 57	59.9S	38 06.8W	S	VLCN06MV	
2219	3/ 2/81		TDCT	81061	1000M R12	ORD 57	50.0S	38 05.3W	S	VLCN06MV	
0137	4/ 2/81		TDCT	81065	1000M R12	ORD 57	40.4S	38 05.8W	S	VLCN06MV	
0500	4/ 2/81		TDCT	81066	1000M R12	ORD 57	31.9S	38 06.4W	S	VLCN06MV	
0814	4/ 2/81		TDCT	81067	1000M R12	ORD 57	20.3S	38 06.6W	S	VLCN06MV	
0959	4/ 2/81		TDCT	81068	1000M R12	ORD 57	09.3S	38 05.4W	S	VLCN06MV	
1312	4/ 2/81		TDCT	81069	1000M R12	ORD 57	00.7S	38 04.4W	S	VLCN06MV	
1630	4/ 2/81		TDCT	81070	1000M R12	ORD 56	49.1S	38 03.9W	S	VLCN06MV	
1929	4/ 2/81		TDCT	81071	1000M R12	ORD 56	38.6S	38 06.0W	S	VLCN06MV	

GMT TIME	D DATE	/M DATE	/Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE	
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0028	5/	2/81				TDCT	81073	1000M R12	ORD 56	20.95	38 05.5W S	VLCN06MV
0335	5/	2/81				TDCT	81074	1000M R12	ORD 56	09.85	38 03.1W S	VLCN06MV
0723	5/	2/81				TDCT	81075	1000M R12	ORD 56	00.05	38 03.1W S	VLCN06MV
0936	5/	2/81				TDCT	81076	1000M R12	ORD 55	49.85	38 06.2W S	VLCN06MV
1233	5/	2/81				TDCT	81077	1000M R12	ORD 55	39.55	38 04.9W S	VLCN06MV
1500	5/	2/81				TDCT	81078	1000M R12	ORD 55	30.85	38 05.9W S	VLCN06MV
1827	5/	2/81				TDCT	81079	1000M R12	ORD 55	22.05	38 04.6W S	VLCN06MV
2048	5/	2/81				TDCT	81080	1000M R12	ORD 55	10.75	38 04.3W S	VLCN06MV
0118	6/	2/81				TDCT	81081	1000M R12	ORD 54	58.05	38 04.4W S	VLCN06MV
0229	6/	2/81				TDCT	81082	1000M R12	ORD 54	50.05	38 05.5W S	VLCN06MV
0450	6/	2/81				TDCT	81083	1000M R12	ORD 54	39.15	38 05.7W S	VLCN06MV
0620	6/	2/81				TDCT	81084	1000M R12	ORD 54	29.25	38 07.2W S	VLCN06MV
1630	7/	2/81				TDCT	81085	1000M R12	ORD 51	58.75	33 03.4W S	VLCN06MV
1849	7/	2/81				TDCT	81086	1000M R12	ORD 52	10.15	33 05.4W S	VLCN06MV
2257	7/	2/81				TDCT	81087	1000M R12	ORD 52	20.65	33 04.4W S	VLCN06MV
0435	8/	2/81				TDCT	81088	1000M R12	ORD 52	28.85	33 06.3W S	VLCN06MV
0912	8/	2/81				TDCT	81089	1000M R12	ORD 52	41.15	33 11.7W S	VLCN06MV
1227	8/	2/81				TDCT	81090	1000M R12	ORD 52	51.05	33 13.4W S	VLCN06MV
1710	8/	2/81				TDCT	81091	1000M R12	ORD 53	01.05	33 15.0W S	VLCN06MV
2038	8/	2/81				TDCT	81092	1000M R12	ORD 53	10.65	33 15.6W S	VLCN06MV
0000	9/	2/81				TDCT	81093	1000M R12	ORD 53	19.05	33 18.2W S	VLCN06MV
0440	9/	2/81				TDCT	81094	1000M R12	ORD 53	29.25	33 16.7W S	VLCN06MV
0753	9/	2/81				TDCT	81095	1000M R12	ORD 53	40.65	33 24.0W S	VLCN06MV
1032	9/	2/81				TDCT	81096	1000M R12	ORD 53	50.35	33 25.0W S	VLCN06MV
1337	9/	2/81				TDCT	81097	1000M R12	ORD 53	58.95	33 22.8W S	VLCN06MV
1700	9/	2/81				TDCT	81098	1000M R12	ORD 54	09.45	33 28.8W S	VLCN06MV
2008	9/	2/81				TDCT	81099	1000M R12	ORD 54	21.25	33 31.9W S	VLCN06MV
2229	9/	2/81				TDCT	81100	1000M R12	ORD 54	30.35	33 30.7W S	VLCN06MV
0102	10/	2/81				TDCT	81101	1000M R12	ORD 54	41.85	33 35.1W S	VLCN06MV
0400	10/	2/81				TDCT	81102	1000M R12	ORD 54	50.05	33 36.0W S	VLCN06MV
0636	10/	2/81				TDCT	81103	1000M R12	ORD 54	59.95	33 37.4W S	VLCN06MV
0849	10/	2/81				TDCT	81104	1000M R12	ORD 55	09.95	33 40.6W S	VLCN06MV
1115	10/	2/81				TDCT	81105	1000M R12	ORD 55	20.75	33 41.9W S	VLCN06MV
1330	10/	2/81				TDCT	81106	1000M R12	ORD 55	30.15	33 43.3W S	VLCN06MV
1700	10/	2/81				TDCT	81107	1000M R12	ORD 55	40.65	33 44.3W S	VLCN06MV
1922	10/	2/81				TDCT	81108	1000M R12	ORD 55	48.25	33 46.7W S	VLCN06MV
2204	10/	2/81				TDCT	81109	1000M R12	ORD 55	58.25	33 48.8W S	VLCN06MV
0103	11/	2/81				TDCT	81110	1000M R12	ORD 56	10.45	33 49.2W S	VLCN06MV
0450	11/	2/81				TDCT	81111	1000M R12	ORD 56	21.05	33 49.7W S	VLCN06MV
0701	11/	2/81				TDCT	81112	1000M R12	ORD 56	30.45	33 52.7W S	VLCN06MV
1022	11/	2/81				TDCT	81113	1000M R12	ORD 56	40.55	33 55.3W S	VLCN06MV
1330	11/	2/81				TDCT	81114	1000M R12	ORD 56	50.15	33 56.9W S	VLCN06MV
1952	11/	2/81				TDCT	81115	1000M R12	ORD 57	10.05	33 59.5W S	VLCN06MV
2005	11/	2/81				TDCT	81116	1000M R12	ORD 57	09.95	33 59.2W S	VLCN06MV
2237	11/	2/81				TDCT	81117	1000M R12	ORD 57	18.85	34 01.4W S	VLCN06MV
0130	12/	2/81				TDCT	81118	1000M R12	ORD 57	29.85	34 01.2W S	VLCN06MV
0500	12/	2/81				TDCT	81119	1000M R12	ORD 57	39.85	34 07.2W S	VLCN06MV
0733	12/	2/81				TDCT	81120	1000M R12	ORD 57	49.55	34 04.5W S	VLCN06MV
1024	12/	2/81				TDCT	81121	1000M R12	ORD 58	00.45	34 09.4W S	VLCN06MV
1215	12/	2/81				TDCT	81122	1000M R12	ORD 58	08.95	34 08.1W S	VLCN06MV
1550	12/	2/81				TDCT	81123	1000M R12	ORD 58	17.85	34 10.0W S	VLCN06MV
1859	12/	2/81				TDCT	81124	1000M R12	ORD 58	30.85	34 15.7W S	VLCN06MV

GMT D / M / Y		LOC LOC	CODE	SAMPLE IDENT.		CODE	06MAY81		PAGE	5
TIME	DATE	TIME TZ	SAMP			DISP	LAT,	LONG.		LEG-SHIP
										CRUISE
2212	12/ 2/81		TDCT	81125	1000M R12	ORD 58	41.4S	34 17.4W	S	VLCN06MV
0251	13/ 2/81		TDCT	81126	1000M R12	ORD 58	50.1S	34 15.3W	S	VLCN06MV
0647	13/ 2/81		TDCT	81127	1000M R12	ORD 59	00.6S	34 22.7W	S	VLCN06MV
0927	13/ 2/81		TDCT	81128	1000M R12	ORD 59	11.7S	34 21.2W	S	VLCN06MV
1122	13/ 2/81		TDCT	81129	1000M R12	ORD 59	20.2S	34 21.8W	S	VLCN06MV
1251	13/ 2/81		TDCT	81130	1000M R12	ORD 59	21.6S	34 23.9W	S	VLCN06MV
1730	13/ 2/81		TDCT	81131	1000M R12	ORD 59	39.4S	34 30.0W	S	VLCN06MV
1955	13/ 2/81		TDCT	81132	1000M R12	ORD 59	50.5S	34 30.2W	S	VLCN06MV
2230	13/ 2/81		TDCT	81133	1000M R12	ORD 60	01.1S	34 33.3W	S	VLCN06MV

\*\*\*SURFACE SAMPLE\*\*\*

0000	25/ 1/81		SS14	SMPL-04	200L 81007	ORD 58	51.2S	49 57.9W	S	VLCN06MV
0130	26/ 1/81		SS14	SMPL-05	200L 81011	ORD 60	10.2S	50 00.9W	S	VLCN06MV
1827	26/ 1/81		SS14	SMPL-06	200L 81015	ORD 60	50.6S	50 00.6W	S	VLCN06MV
2033	27/ 1/81		SS14	SMPL-09	200L 81018	ORD 60	00.6S	46 45.6W	S	VLCN06MV
0507	28/ 1/81		SS14	SMPL-10	200L 81020	ORD 59	40.5S	46 22.4W	S	VLCN06MV
2212	28/ 1/81		SS14	SMPL-11	200L 81025	ORD 58	49.9S	46 37.7W	S	VLCN06MV
2342	29/ 1/81		SS14	SMPL-12	200L 81029	ORD 58	38.8S	46 36.9W	S	VLCN06MV
0934	30/ 1/81		SS14	SMPL-13	200L 81032	ORD 58	40.1S	43 11.0W	S	VLCN06MV
0102	31/ 1/81		SS14	SMPL-14	200L 81037	ORD 59	30.3S	43 12.3W	S	VLCN06MV
0932	31/ 1/81		SS14	SMPL-15	200L 81040	ORD 60	00.7S	43 12.1W	S	VLCN06MV
2128	31/ 1/81		SS14	SMPL-16	200L 81044	ORD 60	39.1S	43 10.4W	S	VLCN06MV
2257	1/ 2/81		SS14	SMPL-17	200L 81049	ORD 60	19.9S	38 05.4W	S	VLCN06MV
0810	2/ 2/81		SS14	SMPL-18	200L 81052	ORD 59	49.7S	38 07.0W	S	VLCN06MV
1739	2/ 2/81		SS14	SMPL-19	200L 81055	ORD 59	18.8S	38 10.2W	S	VLCN06MV
0201	3/ 2/81		SS14	SMPL-20	200L 81058	ORD 58	50.6S	38 05.0W	S	VLCN06MV
0948	3/ 2/81		SS14	SMPL-21	200L 81060	ORD 58	30.5S	38 07.3W	S	VLCN06MV
0137	4/ 2/81		SS14	SMPL-22	200L 81065	ORD 57	40.4S	38 05.8W	S	VLCN06MV
0959	4/ 2/81		SS14	SMPL-23	200L 81068	ORD 57	09.3S	38 05.4W	S	VLCN06MV
1929	4/ 2/81		SS14	SMPL-24	200L 81071	ORD 56	38.6S	38 06.0W	S	VLCN06MV
0723	5/ 2/81		SS14	SMPL-25	200L 81075	ORD 56	00.0S	38 03.1W	S	VLCN06MV
1630	7/ 2/81		SS14	SMPL-26	200L 81085	ORD 51	58.7S	33 03.4W	S	VLCN06MV
2257	7/ 2/81		SS14	SMPL-27	200L 81087	ORD 52	20.6S	33 04.4W	S	VLCN06MV
0912	8/ 2/81		SS14	SMPL-28	200L 81089	ORD 52	41.1S	33 11.7W	S	VLCN06MV
1710	8/ 2/81		SS14	SMPL-29	200L 81091	ORD 53	01.0S	33 15.0W	S	VLCN06MV
0440	9/ 2/81		SS14	SMPL-30	200L 81094	ORD 53	29.2S	33 16.7W	S	VLCN06MV
1032	9/ 2/81		SS14	SMPL-31	200L 81096	ORD 53	50.3S	33 25.0W	S	VLCN06MV
0000	10/ 2/81		SS14	SMPL-32	200L 81100	ORD 54	31.8S	33 31.7W	S	VLCN06MV
0849	10/ 2/81		SS14	SMPL-33	200L 81104	ORD 55	09.9S	33 40.6W	S	VLCN06MV
2204	10/ 2/81		SS14	SMPL-34	200L 81109	ORD 55	58.2S	33 48.8W	S	VLCN06MV
0701	11/ 2/81		SS14	SMPL-35	200L 81112	ORD 56	30.4S	33 52.7W	S	VLCN06MV
1952	11/ 2/81		SS14	SMPL-36	200L 81115	ORD 57	10.0S	33 59.5W	S	VLCN06MV
0000	12/ 2/81		SS14	SMPL-37	200L 81116	ORD 57	19.6S	34 01.5W	S	VLCN06MV
1024	12/ 2/81		SS14	SMPL-38	200L 81121	ORD 58	00.4S	34 09.4W	S	VLCN06MV
1730	12/ 2/81		SS14	SMPL-39	200L 81131	ORD 58	25.0S	34 09.7W	S	VLCN06MV

\*\*\*HYDROGRAPHIC CAST\*\*\*

1910	24/ 1/81	HCNI	TSON	P G A	L81002	PCF 58	41.1S	49 55.8W	S	VLCN06MV
0300	25/ 1/81	HCNI	TSON	P G A	L81004	PCF 59	02.5S	50 00.1W	S	VLCN06MV

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GMT D /M /Y	LOC	LOC	CODE	SAMPLE IDENT.				CODE	LAT.	LONG.	LEG-SHIP	
TIME DATE	TIME	TZ	SAMP					DISP			CRUISE	
0805 25/ 1/81			HCNI	TSON	P	G	A	L81006	PCF 59	21.0S	49 58.8W S	VLCN06MV
1520 25/ 1/81			HCNI	TSON	P	G	A	L81008	PCF 59	38.7S	49 58.5W S	VLCN06MV
2234 25/ 1/81			HCNI	TSON	P	G	A	L81010	PCF 60	00.0S	50 01.3W S	VLCN06MV
0627 26/ 1/81			HCNI	TSON	P	G	A	L81012	PCF 60	21.3S	50 00.8W S	VLCN06MV
1209 26/ 1/81			HCNI	TSON	P	G	A	L81014	PCF 60	39.3S	49 58.6W S	VLCN06MV
1102 27/ 1/81			HCNI	TSON	P	G	A	L81016	PCF 60	18.8S	46 31.4W S	VLCN06MV
2033 27/ 1/81			HCNI	TSON	P	G	A	L81018	PCF 60	00.6S	46 45.6W S	VLCN06MV
0507 28/ 1/81			HCNI	TSON	P	G	A	L81020	PCF 59	40.5S	46 22.4W S	VLCN06MV
1142 28/ 1/81			HCNI	TSON	P	G	A	L81022	PCF 59	22.7S	46 34.4W S	VLCN06MV
1850 28/ 1/81			HCNI	TSON	P	G	A	L81024	PCF 58	59.8S	46 37.4W S	VLCN06MV
0010 29/ 1/81			HCNI	TSON	P	G	A	L81026	PCF 58	37.6S	46 37.2W S	VLCN06MV
2013 29/ 1/81			HCNI	TSON	P	G	A	L81028	PCF 57	56.3S	43 10.7W S	VLCN06MV
0236 30/ 1/81			HCNI	TSON	P	G	A	L81030	PCF 58	18.9S	43 13.1W S	VLCN06MV
0934 30/ 1/81			HCNI	TSON	P	G	A	L81032	PCF 58	40.1S	43 11.0W S	VLCN06MV
1647 30/ 1/81			HCNI	TSON	P	G	A	L81034	PCF 58	58.8S	43 13.0W S	VLCN06MV
2204 30/ 1/81			HCNI	TSON	P	G	A	L81036	PCF 59	20.1S	43 11.9W S	VLCN06MV
0430 31/ 1/81			HCNI	TSON	P	G	A	L81038	PCF 59	40.9S	43 13.3W S	VLCN06MV
0932 31/ 1/81			HCNI	TSON	P	G	A	L81040	PCF 60	00.7S	43 12.1W S	VLCN06MV
1540 31/ 1/81			HCNI	TSON	P	G	A	L81042	PCF 60	19.3S	43 12.8W S	VLCN06MV
2128 31/ 1/81			HCNI	TSON	P	G	A	L81044	PCF 60	39.1S	43 10.4W S	VLCN06MV
1518 1/ 2/81			HCNI	TSON	P	G	A	L81046	PCF 60	50.2S	38 04.7W S	VLCN06MV
2024 1/ 2/81			HCNI	TSON	P	G	A	L81048	PCF 60	30.1S	38 07.7W S	VLCN06MV
0142 2/ 2/81			HCNI	TSON	P	G	A	L81050	PCF 60	09.1S	38 06.5W S	VLCN06MV
0810 2/ 2/81			HCNI	TSON	P	G	A	L81052	PCF 59	49.7S	38 07.0W S	VLCN06MV
1404 2/ 2/81			HCNI	TSON	P	G	A	L81054	PCF 59	29.4S	38 07.3W S	VLCN06MV
2033 2/ 2/81			HCNI	TSON	P	G	A	L81056	PCF 59	08.6S	38 06.1W S	VLCN06MV
0201 3/ 2/81			HCNI	TSON	P	G	A	L81058	PCF 58	50.6S	38 05.0W S	VLCN06MV
0948 3/ 2/81			HCNI	TSON	P	G	A	L81060	PCF 58	30.5S	38 07.3W S	VLCN06MV
1715 3/ 2/81			HCNI	TSON	P	G	A	L81062	PCF 58	10.2S	38 04.3W S	VLCN06MV
2219 3/ 2/81			HCNI	TSON	P	G	A	L81064	PCF 57	50.0S	38 05.3W S	VLCN06MV
0500 4/ 2/81			HCNI	TSON	P	G	A	L81066	PCF 57	31.9S	38 06.4W S	VLCN06MV
0959 4/ 2/81			HCNI	TSON	P	G	A	L81068	PCF 57	09.3S	38 05.4W S	VLCN06MV
1630 4/ 2/81			HCNI	TSON	P	G	A	L81070	PCF 56	49.1S	38 03.9W S	VLCN06MV
2152 4/ 2/81			HCNI	TSON	P	G	A	L81072	PCF 56	29.7S	38 06.8W S	VLCN06MV
0335 5/ 2/81			HCNI	TSON	P	G	A	L81074	PCF 56	09.8S	38 03.1W S	VLCN06MV
0936 5/ 2/81			HCNI	TSON	P	G	A	L81076	PCF 55	49.8S	38 06.2W S	VLCN06MV
1500 5/ 2/81			HCNI	TSON	P	G	A	L81078	PCF 55	30.8S	38 05.9W S	VLCN06MV
2048 5/ 2/81			HCNI	TSON	P	G	A	L81080	PCF 55	10.7S	38 04.3W S	VLCN06MV
0229 6/ 2/81			HCNI	TSON	P	G	A	L81082	PCF 54	50.0S	38 05.5W S	VLCN06MV
0621 6/ 2/81			HCNI	TSON	P	G	A	L81084	PCF 54	29.2S	38 07.2W S	VLCN06MV
1849 7/ 2/81			HCNI	TSON	P	G	A	L81086	PCF 52	10.1S	33 05.4W S	VLCN06MV
0435 8/ 2/81			HCNI	TSON	P	G	A	L81088	PCF 52	28.8S	33 06.3W S	VLCN06MV
1227 8/ 2/81			HCNI	TSON	P	G	A	L81090	PCF 52	51.0S	33 13.4W S	VLCN06MV
2038 8/ 2/81			HCNI	TSON	P	G	A	L81092	PCF 53	10.6S	33 15.6W S	VLCN06MV
0440 9/ 2/81			HCNI	TSON	P	G	A	L81094	PCF 53	29.2S	33 16.7W S	VLCN06MV
1032 9/ 2/81			HCNI	TSON	P	G	A	L81096	PCF 53	50.3S	33 25.0W S	VLCN06MV
1700 9/ 2/81			HCNI	TSON	P	G	A	L81098	PCF 54	09.4S	33 28.8W S	VLCN06MV
2229 9/ 2/81			HCNI	TSON	P	G	A	L81100	PCF 54	30.3S	33 30.7W S	VLCN06MV
0400 10/ 2/81			HCNI	TSON	P	G	A	L81102	PCF 54	50.0S	33 36.0W S	VLCN06MV
0849 10/ 2/81			HCNI	TSON	P	G	A	L81104	PCF 55	09.9S	33 40.6W S	VLCN06MV
1330 10/ 2/81			HCNI	TSON	P	G	A	L81106	PCF 55	30.1S	33 43.3W S	VLCN06MV
1922 10/ 2/81			HCNI	TSON	P	G	A	L81108	PCF 55	48.2S	33 46.7W S	VLCN06MV
0103 11/ 2/81			HCNI	TSON	P	G	A	L81110	PCF 56	10.4S	33 49.2W S	VLCN06MV

GMT D / M / Y		LOC LOC	CODE	SAMPLE IDENT.			CODE	LAT. LONG.		LEG-SHIP
TIME	DATE	TIME TZ	SAMP				DISP			CRUISE
0701	11/ 2/81		HCNI	TSON	P G	A L81112	PCF 56	30.4S	33 52.7W	S VLCN06MV
1330	11/ 2/81		HCNI	TSON	P G	A L81114	PCF 56	50.1S	33 56.9W	S VLCN06MV
2005	11/ 2/81		HCNI	TSON	P G	A L81116	PCF 57	09.9S	33 59.2W	S VLCN06MV
0130	12/ 2/81		HCNI	TSON	P G	A L81118	PCF 57	29.8S	34 01.2W	S VLCN06MV
0733	12/ 2/81		HCNI	TSON	P G	A L81120	PCF 57	49.5S	34 04.5W	S VLCN06MV
1215	12/ 2/81		HCNI	TSON	P G	A L81122	PCF 58	08.9S	34 08.1W	S VLCN06MV
1859	12/ 2/81		HCNI	TSON	P G	A L81124	PCF 58	30.8S	34 15.7W	S VLCN06MV
0254	14/ 2/81		HCNI	TSON	P G	A L81126	PCF 59	50.4S	35 14.1W	S VLCN06MV
0927	14/ 2/81		HCNI	TSON	P G	A L81128	PCF 59	30.3S	37 06.0W	S VLCN06MV
1351	14/ 2/81		HCNI	TSON	P G	A L81130	PCF 59	13.1S	38 26.9W	S VLCN06MV
1955	14/ 2/81		HCNI	TSON	P G	A L81132	PCF 58	52.7S	40 04.9W	S VLCN06MV
1150	24/ 1/81		HCNI	TSON		81001	PCF 58	29.1S	49 59.4W	S VLCN06MV
2236	24/ 1/81		HCNI	TSON		81003	PCF 58	50.7S	49 58.3W	S VLCN06MV
0608	25/ 1/81		HCNI	TSON		81005	PCF 59	11.6S	50 01.2W	S VLCN06MV
1700	25/ 1/81		HCNI	TSON		81007	PCF 59	39.7S	49 56.0W	S VLCN06MV
1924	25/ 1/81		HCNI	TSON		81009	PCF 59	49.1S	49 59.0W	S VLCN06MV
0130	26/ 1/81		HCNI	TSON		81011	PCF 60	10.2S	50 00.9W	S VLCN06MV
0930	26/ 1/81		HCNI	TSON		81013	PCF 60	30.2S	49 59.5W	S VLCN06MV
1827	26/ 1/81		HCNI	TSON		81015	PCF 60	50.6S	50 00.6W	S VLCN06MV
1726	27/ 1/81		HCNI	TSON		81017	PCF 60	09.8S	46 47.4W	S VLCN06MV
0010	28/ 1/81		HCNI	TSON		81019	PCF 59	48.7S	46 32.7W	S VLCN06MV
0917	28/ 1/81		HCNI	TSON		81021	PCF 59	28.9S	46 32.6W	S VLCN06MV
1610	28/ 1/81		HCNI	TSON		81023	PCF 59	11.2S	46 38.6W	S VLCN06MV
2212	28/ 1/81		HCNI	TSON		81025	PCF 58	49.9S	46 37.7W	S VLCN06MV
0403	29/ 1/81		HCNI	TSON		81027	PCF 58	30.5S	46 35.3W	S VLCN06MV
1700	29/ 1/81		HCNI	TSON		81029	PCF 57	59.1S	43 11.3W	S VLCN06MV
0613	30/ 1/81		HCNI	TSON		81031	PCF 58	30.1S	43 13.0W	S VLCN06MV
1242	30/ 1/81		HCNI	TSON		81033	PCF 58	49.8S	43 13.4W	S VLCN06MV
2028	30/ 1/81		HCNI	TSON		81035	PCF 59	10.7S	43 10.4W	S VLCN06MV
0105	31/ 1/81		HCNI	TSON		81037	PCF 59	30.5S	43 12.4W	S VLCN06MV
0718	31/ 1/81		HCNI	TSON		81039	PCF 59	49.4S	43 09.0W	S VLCN06MV
1210	31/ 1/81		HCNI	TSON		81041	PCF 60	09.6S	43 11.0W	S VLCN06MV
1847	31/ 1/81		HCNI	TSON		81043	PCF 60	29.1S	43 07.9W	S VLCN06MV
0017	1/ 2/81		HCNI	TSON		81045	PCF 60	48.6S	43 13.5W	S VLCN06MV
1800	1/ 2/81		HCNI	TSON		81047	PCF 60	41.3S	38 09.9W	S VLCN06MV
2257	1/ 2/81		HCNI	TSON		81049	PCF 60	19.9S	38 05.4W	S VLCN06MV
0545	2/ 2/81		HCNI	TSON		81051	PCF 59	59.6S	38 04.7W	S VLCN06MV
1103	2/ 2/81		HCNI	TSON		81053	PCF 59	40.0S	38 09.2W	S VLCN06MV
1739	2/ 2/81		HCNI	TSON		81055	PCF 59	18.8S	38 10.2W	S VLCN06MV
2340	2/ 2/81		HCNI	TSON		81057	PCF 59	00.7S	38 04.6W	S VLCN06MV
0620	3/ 2/81		HCNI	TSON		81059	PCF 58	40.2S	38 03.5W	S VLCN06MV
1305	3/ 2/81		HCNI	TSON		81061	PCF 58	21.3S	38 05.6W	S VLCN06MV
2009	3/ 2/81		HCNI	TSON		81063	PCF 57	59.9S	38 06.8W	S VLCN06MV
0137	4/ 2/81		HCNI	TSON		81065	PCF 57	40.4S	38 05.8W	S VLCN06MV
0814	4/ 2/81		HCNI	TSON		81067	PCF 57	20.3S	38 06.6W	S VLCN06MV
1312	4/ 2/81		HCNI	TSON		81069	PCF 57	00.7S	38 04.4W	S VLCN06MV
1929	4/ 2/81		HCNI	TSON		81071	PCF 56	38.6S	38 06.0W	S VLCN06MV
0028	5/ 2/81		HCNI	TSON		81073	PCF 56	20.9S	38 05.5W	S VLCN06MV
0723	5/ 2/81		HCNI	TSON		81075	PCF 56	00.0S	38 03.1W	S VLCN06MV
1233	5/ 2/81		HCNI	TSON		81077	PCF 55	39.5S	38 04.9W	S VLCN06MV
1827	5/ 2/81		HCNI	TSON		81079	PCF 55	22.0S	38 04.6W	S VLCN06MV
0118	6/ 2/81		HCNI	TSON		81081	PCF 54	58.0S	38 04.4W	S VLCN06MV
0450	6/ 2/81		HCNI	TSON		81083	PCF 54	39.1S	38 05.7W	S VLCN06MV

GMT TIME	D /M /Y	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	06MAY81		PAGE	8	LEG-SHIP CRUISE
							LAT.	LONG.			
1630	7/ 2/81			HCNI	TSON	81085	PCF 51	58.7S	33	03.4W	S VLCN06MV
2257	7/ 2/81			HCNI	TSON	81087	PCF 52	20.6S	33	04.4W	S VLCN06MV
0912	8/ 2/81			HCNI	TSON	81089	PCF 52	41.1S	33	11.7W	S VLCN06MV
1710	8/ 2/81			HCNI	TSON	81091	PCF 53	01.0S	33	15.0W	S VLCN06MV
0000	9/ 2/81			HCNI	TSON	81093	PCF 53	19.0S	33	18.2W	S VLCN06MV
0753	9/ 2/81			HCNI	TSON	81095	PCF 53	40.6S	33	24.0W	S VLCN06MV
1337	9/ 2/81			HCNI	TSON	81097	PCF 53	58.9S	33	22.8W	S VLCN06MV
2008	9/ 2/81			HCNI	TSON	81099	PCF 54	21.2S	33	31.9W	S VLCN06MV
0102	10/ 2/81			HCNI	TSON	81101	PCF 54	41.8S	33	35.1W	S VLCN06MV
0636	10/ 2/81			HCNI	TSON	81103	PCF 54	59.9S	33	37.4W	S VLCN06MV
1115	10/ 2/81			HCNI	TSON	81105	PCF 55	20.7S	33	41.9W	S VLCN06MV
1700	10/ 2/81			HCNI	TSON	81107	PCF 55	40.6S	33	44.3W	S VLCN06MV
2204	10/ 2/81			HCNI	TSON	81109	PCF 55	58.2S	33	48.8W	S VLCN06MV
0450	11/ 2/81			HCNI	TSON	81111	PCF 56	21.0S	33	49.7W	S VLCN06MV
1022	11/ 2/81			HCNI	TSON	81113	PCF 56	40.5S	33	55.3W	S VLCN06MV
1952	11/ 2/81			HCNI	TSON	81115	PCF 57	10.0S	33	59.5W	S VLCN06MV
2237	11/ 2/81			HCNI	TSON	81117	PCF 57	18.8S	34	01.4W	S VLCN06MV
0500	12/ 2/81			HCNI	TSON	81119	PCF 57	39.8S	34	07.2W	S VLCN06MV
1004	12/ 2/81			HCNI	TSON	81121	PCF 58	00.2S	34	09.4W	S VLCN06MV
1550	12/ 2/81			HCNI	TSON	81123	PCF 58	17.8S	34	10.0W	S VLCN06MV
2212	12/ 2/81			HCNI	TSON	81125	PCF 58	41.4S	34	17.4W	S VLCN06MV
0647	13/ 2/81			HCNI	TSON	81127	PCF 59	00.6S	34	22.7W	S VLCN06MV
1122	13/ 2/81			HCNI	TSON	81129	PCF 59	20.2S	34	21.8W	S VLCN06MV
1730	13/ 2/81			HCNI	TSON	81131	PCF 59	39.4S	34	30.0W	S VLCN06MV
2230	13/ 2/81			HCNI	TSON	81133	PCF 60	01.1S	34	33.3W	S VLCN06MV
1250	24/ 1/81			HCNI	81001 C14	ORD 58	29.4S	49	55.5W	S VLCN06MV	
2010	24/ 1/81			HCNI	81002 N15	IMR 58	41.5S	49	55.1W	S VLCN06MV	
2040	24/ 1/81			HCNI	81002 C14	ORD 58	41.6S	49	54.8W	S VLCN06MV	
0905	25/ 1/81			HCNI	81006 N15	IMR 59	22.0S	49	58.7W	S VLCN06MV	
1927	25/ 1/81			HCNI	81015 C14	ORD 59	49.2S	49	59.0W	S VLCN06MV	
1957	25/ 1/81			HCNI	81015 N15	IMR 59	49.6S	49	59.0W	S VLCN06MV	
2030	25/ 1/81			HCNI	81015 N15	IMR 59	50.1S	49	59.5W	S VLCN06MV	
1242	28/ 1/81			HCNI	81022 C14	ORD 59	23.2S	46	34.5W	S VLCN06MV	
2113	29/ 1/81			HCNI	81028 N15	IMR 57	57.0S	43	10.0W	S VLCN06MV	
1640	31/ 1/81			HCNI	81042 N15	IMR 60	19.2S	43	12.9W	S VLCN06MV	
1045	2/ 2/81			HCNI	81053 N15	IMR 59	40.4S	38	08.3W	S VLCN06MV	
2300	3/ 2/81			HCNI	81064 N15	IMR 57	50.0S	38	04.7W	S VLCN06MV	
2100	5/ 2/81			HCNI	81080 N15	IMR 55	10.9S	38	04.2W	S VLCN06MV	
2000	7/ 2/81			HCNI	81086 N15	IMR 52	09.9S	33	06.3W	S VLCN06MV	
1122	11/ 2/81			HCNI	81113 N15	IMR 56	40.6S	33	55.7W	S VLCN06MV	
1530	13/ 2/81			HCNI	81130 N15	IMR 59	29.7S	34	20.7W	S VLCN06MV	

\*\*\*SUBMERGED PHOTOMETER\*\*\*

1103	2/ 2/81			PSQM	PHOTOMETER 81053 42M	IMR 59	40.0S	38	09.2W	S VLCN06MV
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\*\*\*OPEN NET\*\*\*

1715	24/ 1/81			ON50	81002 V-200M	IMR 58	40.1S	49	57.5W	S VLCN06MV
2100	24/ 1/81			ONBG	81002 200M	IMR 58	42.1S	49	55.0W	S VLCN06MV



GMT D / M / Y			LOC LOC		CODE	SAMPLE IDENT.		CODE	06MAY81 PAGE		9
TIME DATE			TIME TZ		SAMP			DISP	LAT.	LONG.	LEG-SHIP
											CRUISE
0200	25/	1/81			ON50	81004	V-200M	IMR 59	01.65	50 00.5W	S VLCN06MV
0350	25/	1/81			ON50	81004	V-200M	IMR 59	03.35	50 00.1W	S VLCN06MV
0430	25/	1/81			ONBG	81004	200M	IMR 59	04.15	50 00.1W	S VLCN06MV
1030	25/	1/81			ONBG	81006	200M	IMR 59	23.35	50 00.2W	S VLCN06MV
1620	25/	1/81			ONBG	81008	200M	IMR 59	38.65	49 56.9W	S VLCN06MV
2350	25/	1/81			ONBG	81010	200M	IMR 60	01.15	50 04.2W	S VLCN06MV
0500	26/	1/81			ONBG	81012	200M	IMR 60	18.95	50 01.3W	S VLCN06MV
0517	26/	1/81			ON50	81012	V-200M	IMR 60	19.95	50 01.0W	S VLCN06MV
1330	26/	1/81			ON50	81014	V-200M	IMR 60	39.85	49 59.7W	S VLCN06MV
1350	26/	1/81			ONBG	81014	300M	IMR 60	40.05	50 00.1W	S VLCN06MV
1430	26/	1/81			ONBG	81014	300M	IMR 60	40.65	50 02.6W	S VLCN06MV
1202	27/	1/81			ONBG	81016	200M	IMR 60	18.65	46 30.4W	S VLCN06MV
1826	27/	1/81			ON50	81017	V-200M	IMR 60	08.95	46 46.5W	S VLCN06MV
2133	27/	1/81			ONBG	81018	200M	IMR 60	00.45	46 47.2W	S VLCN06MV
0100	28/	1/81			ON50	81019	V-200M	IMR 59	49.05	46 33.6W	S VLCN06MV
0605	28/	1/81			ONBG	81020	300M	IMR 59	41.65	46 17.7W	S VLCN06MV
1927	28/	1/81			ONBG	81024	200M	IMR 58	59.95	46 37.0W	S VLCN06MV
0100	29/	1/81			ONBG	81026	200M	IMR 58	37.75	46 37.7W	S VLCN06MV
0407	29/	1/81			ON50	81027	V-200M	IMR 58	30.55	46 35.2W	S VLCN06MV
1600	29/	1/81			ONBG	81028	200M	IMR 57	59.65	43 10.5W	S VLCN06MV
0150	30/	1/81			ON50	81030	V-200M	IMR 58	18.75	43 11.6W	S VLCN06MV
0210	30/	1/81			ONBG	81030	200M	IMR 58	18.85	43 12.3W	S VLCN06MV
1034	30/	1/81			ONBG	81032	200M	IMR 58	39.55	43 11.1W	S VLCN06MV
1747	30/	1/81			ON50	81034	V-200M	IMR 58	58.55	43 11.9W	S VLCN06MV
1800	30/	1/81			ONBG	81034	200M	IMR 58	58.55	43 11.8W	S VLCN06MV
2304	30/	1/81			ONBG	81036	200M	IMR 59	20.75	43 11.0W	S VLCN06MV
1000	31/	1/81			ONBG	81040	200M	IMR 60	00.65	43 12.4W	S VLCN06MV
1640	31/	1/81			ONBG	81042	200M	IMR 60	19.25	43 12.9W	S VLCN06MV
1618	1/	2/81			ONBG	81046	200M	IMR 60	49.85	38 04.8W	S VLCN06MV
2124	1/	2/81			ONBG	81048	200M	IMR 60	30.05	38 07.3W	S VLCN06MV
0242	2/	2/81			ONBG	81050	200M	IMR 60	09.45	38 06.8W	S VLCN06MV
0910	2/	2/81			ONBG	81052	200M	IMR 59	50.55	38 07.0W	S VLCN06MV
1203	2/	2/81			ONBG	81053	200M	IMR 59	39.95	38 08.4W	S VLCN06MV
1504	2/	2/81			ONBG	81054	200M	IMR 59	29.05	38 08.7W	S VLCN06MV
2133	2/	2/81			ONBG	81056	200M	IMR 59	08.15	38 06.2W	S VLCN06MV
0300	3/	2/81			ONBG	81058	200M	IMR 58	51.05	38 03.8W	S VLCN06MV
1048	3/	2/81			ONBG	81060	200M	IMR 58	31.85	38 08.4W	S VLCN06MV
1815	3/	2/81			ONBG	81062	200M	IMR 58	09.65	38 03.7W	S VLCN06MV
2319	3/	2/81			ONBG	81064	200M	IMR 57	50.25	38 04.4W	S VLCN06MV
0600	4/	2/81			ONBG	81066	200M	IMR 57	32.25	38 05.8W	S VLCN06MV
1059	4/	2/81			ONBG	81068	200M	IMR 57	09.75	38 03.9W	S VLCN06MV
1730	4/	2/81			ONBG	81070	200M	IMR 56	49.25	38 02.3W	S VLCN06MV
2252	4/	2/81			ONBG	81072	200M	IMR 56	29.85	38 05.7W	S VLCN06MV
0435	5/	2/81			ONBG	81074	200M	IMR 56	09.85	38 01.7W	S VLCN06MV
1036	5/	2/81			ONBG	81076	200M	IMR 55	50.55	38 04.8W	S VLCN06MV
1600	5/	2/81			ONBG	81078	200M	IMR 55	31.25	38 04.3W	S VLCN06MV
2148	5/	2/81			ONBG	81080	200M	IMR 55	11.55	38 04.2W	S VLCN06MV
0329	6/	2/81			ONBG	81082	200M	IMR 54	49.55	38 04.4W	S VLCN06MV
0721	6/	2/81			ONBG	81084	200M	IMR 54	28.05	38 09.5W	S VLCN06MV
1949	7/	2/81			ONBG	81086	200M	IMR 52	10.05	33 06.3W	S VLCN06MV
0535	8/	2/81			ONBG	81088	200M	IMR 52	28.55	33 07.8W	S VLCN06MV
1227	8/	2/81			ONBG	81090	200M	IMR 52	51.05	33 13.4W	S VLCN06MV
2138	8/	2/81			ONBG	81092	200M	IMR 53	10.55	33 16.5W	S VLCN06MV



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GNT D /M /Y	LOC LOC	CODE	SAMPLE IDENT.	CODE	LAT.	LONG.	LEG-SHIP
TIME DATE	TIME TZ	SAMP		DISP			CRUISE
0540 9/ 2/81		ONBG	81094 200M	IMR 53	29.7S	33 17.3W	S VLCN06MV
1132 9/ 2/81		ONBG	81096 200M	IMR 53	50.7S	33 25.5W	S VLCN06MV
1800 9/ 2/81		ONBG	81098 200M	IMR 54	10.0S	33 27.7W	S VLCN06MV
2329 9/ 2/81		ONBG	81100 200M	IMR 54	30.9S	33 30.7W	S VLCN06MV
0500 10/ 2/81		ONBG	81102 200M	IMR 54	49.3S	33 36.3W	S VLCN06MV
0849 10/ 2/81		ONBG	81104 200M	IMR 55	09.9S	33 40.6W	S VLCN06MV
1430 10/ 2/81		ONBG	81106 200M	IMR 55	29.4S	33 43.8W	S VLCN06MV
2022 10/ 2/81		ONBG	81108 200M	IMR 55	48.8S	33 48.4W	S VLCN06MV
0203 11/ 2/81		ONBG	81110 200M	IMR 56	10.0S	33 48.9W	S VLCN06MV
0801 11/ 2/81		ONBG	81112 200M	IMR 56	29.9S	33 52.5W	S VLCN06MV
1430 11/ 2/81		ONBG	81114 200M	IMR 56	48.8S	33 59.1W	S VLCN06MV
2105 11/ 2/81		ONBG	81116 200M	IMR 57	09.1S	33 59.2W	S VLCN06MV
0230 12/ 2/81		ONBG	81118 200M	IMR 57	29.0S	34 01.6W	S VLCN06MV
0833 12/ 2/81		ONBG	81120 200M	IMR 57	49.1S	34 04.5W	S VLCN06MV
1027 13/ 2/81		ONBG	81128 200M	IMR 59	12.6S	34 20.0W	S VLCN06MV
1451 13/ 2/81		ONBG	81130 200M	IMR 59	29.4S	34 21.8W	S VLCN06MV
2035 13/ 2/81		ONBG	81132 200M	IMR 59	50.3S	34 30.2W	S VLCN06MV

\*\*\*BIOLOGICAL RECORD - DEEP SCATTERING LAYER\*\*\*

1600 24/ 1/81	DPBR B STA 1-2	NDA 58	29.3S	49 52.2W	S VLCN06MV
1710 24/ 1/81	DPBR E STA 1-2	NDA 58	39.4S	49 57.5W	S VLCN06MV
2150 24/ 1/81	DPBR B STA 2-3	NDA 58	44.6S	49 56.4W	S VLCN06MV
2227 24/ 1/81	DPBR E STA 2-3	NDA 58	50.0S	49 58.2W	S VLCN06MV
0042 25/ 1/81	DPBR B STA 3-4	NDA 58	52.4S	49 56.9W	S VLCN06MV
0120 25/ 1/81	DPBR E STA 3-4	NDA 58	59.5S	49 58.5W	S VLCN06MV
0506 25/ 1/81	DPBR B STA 4-5	NDA 59	05.5S	50 00.8W	S VLCN06MV
0525 25/ 1/81	DPBR E STA 4-5	NDA 59	08.5S	50 00.7W	S VLCN06MV
0711 25/ 1/81	DPBR B STA 5-6	NDA 59	13.3S	50 01.8W	S VLCN06MV
0749 25/ 1/81	DPBR E STA 5-6	NDA 59	20.5S	49 59.0W	S VLCN06MV
1122 25/ 1/81	DPBR B STA 6-7	NDA 59	24.1S	50 00.7W	S VLCN06MV
1158 25/ 1/81	DPBR E STA 6-7	NDA 59	30.6S	50 00.6W	S VLCN06MV
1351 25/ 1/81	DPBR B STA 7-8	NDA 59	34.5S	49 59.3W	S VLCN06MV
1413 25/ 1/81	DPBR E STA 7-8	NDA 59	38.2S	50 00.3W	S VLCN06MV
1738 25/ 1/81	DPBR B STA 8-9	NDA 59	41.5S	49 56.9W	S VLCN06MV
1830 25/ 1/81	DPBR E STA 8-9	NDA 59	47.3S	49 58.1W	S VLCN06MV
2027 25/ 1/81	DPBR B STA 9-10	NDA 59	49.8S	49 59.5W	S VLCN06MV
2127 25/ 1/81	DPBR E STA 9-10	NDA 59	58.7S	50 00.6W	S VLCN06MV
0033 26/ 1/81	DPBR B STA 10-11	NDA 60	02.3S	50 06.6W	S VLCN06MV
0115 26/ 1/81	DPBR E STA 10-11	NDA 60	09.5S	50 02.0W	S VLCN06MV
0355 26/ 1/81	DPBR B STA 11-12	NDA 60	10.7S	49 56.5W	S VLCN06MV
0455 26/ 1/81	DPBR E STA 11-12	NDA 60	18.6S	50 00.5W	S VLCN06MV

GMT TIME	D / M / Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
0723	26/ 1/81			DPBR B	STA 12-13	NDA 60	21.4S	49 59.9W	S VLCN06MV
0845	26/ 1/81			DPBR E	STA 12-13	NDA 60	29.0S	49 58.7W	S VLCN06MV
0847	26/ 1/81			DPBR B	STA 13-14	NDA 60	29.2S	49 58.8W	S VLCN06MV
1158	26/ 1/81			DPBR E	STA 13-14	NDA 60	38.6S	49 58.6W	S VLCN06MV
1457	26/ 1/81			DPBR B	STA 14-15	NDA 60	41.9S	50 03.3W	S VLCN06MV
1617	26/ 1/81			DPBR E	STA 14-15	NDA 60	49.5S	50 01.3W	S VLCN06MV
2125	26/ 1/81			DPBR B	STA 15-16	NDA 60	51.8S	50 00.9W	S VLCN06MV
2330	26/01/81			DPBR E	STA 15-16	NDA 60	44.7S	49 16.0W	F VLCN06MV
1331	27/ 1/81			DPBR B	STA 16-17	NDA 60	17.5S	46 33.8W	S VLCN06MV
1535	27/ 1/81			DPBR E	STA 16-17	NDA 60	16.6S	46 46.0W	S VLCN06MV
1815	27/ 1/81			DPBR B	STA 17-18	NDA 60	09.9S	46 47.4W	S VLCN06MV
1953	27/ 1/81			DPBR E	STA 17-18	NDA 60	00.8S	46 44.9W	S VLCN06MV
2152	27/ 1/81			DPBR B	STA 18-19	NDA 60	00.4S	46 48.6W	S VLCN06MV
2357	27/ 1/81			DPBR E	STA 18-19	NDA 59	49.6S	46 34.3W	S VLCN06MV
0145	28/ 1/81			DPBR B	STA 19-20	NDA 59	49.1S	46 32.9W	S VLCN06MV
0340	28/ 1/81			DPBR E	STA 19-20	NDA 59	40.3S	46 27.9W	S VLCN06MV
0640	28/ 1/81			DPBR B	STA 20-21	NDA 59	41.9S	46 16.6W	S VLCN06MV
0843	28/ 1/81			DPBR E	STA 20-21	NDA 59	28.7S	46 32.5W	S VLCN06MV
1015	28/ 1/81			DPBR B	STA 21-22	NDA 59	28.7S	46 30.3W	S VLCN06MV
1055	28/ 1/81			DPBR E	STA 21-22	NDA 59	22.7S	46 33.5W	S VLCN06MV
1353	28/ 1/81			DPBR B	STA 22-23	NDA 59	23.1S	46 34.8W	S VLCN06MV
1503	28/ 1/81			DPBR E	STA 22-23	NDA 59	13.7S	46 37.3W	S VLCN06MV
1706	28/ 1/81			DPBR B	STA 23-24	NDA 59	10.5S	46 38.4W	S VLCN06MV
1817	28/ 1/81			DPBR E	STA 23-24	NDA 59	00.2S	46 36.8W	S VLCN06MV
2009	28/ 1/81			DPBR B	STA 24-25	NDA 58	59.7S	46 38.0W	S VLCN06MV
2106	28/ 1/81			DPBR E	STA 24-25	NDA 58	50.1S	46 36.9W	S VLCN06MV
2300	28/ 1/81			DPBR B	STA 25-26	NDA 58	48.6S	46 37.2W	S VLCN06MV
0000	29/ 1/81			DPBR E	STA 25-26	NDA 58	38.8S	46 36.9W	S VLCN06MV
0216	29/ 1/81			DPBR B	STA 26-27	NDA 58	37.0S	46 36.9W	S VLCN06MV
0254	29/ 1/81			DPBR E	STA 26-27	NDA 58	31.4S	46 36.9W	S VLCN06MV
1358	29/ 1/81			DPBR B	STA 27-28	NDA 58	03.3S	43 32.4W	S VLCN06MV
1535	29/ 1/81			DPBR E	STA 27-28	NDA 57	59.6S	43 13.4W	S VLCN06MV
1409	30/ 1/81			DPBR B	STA 33-34	NDA 58	49.4S	43 12.6W	S VLCN06MV
1516	30/ 1/81			DPBR E	STA 33-34	NDA 58	58.0S	43 13.2W	S VLCN06MV
1640	1/ 2/81			DPBR B	STA 46-47	NDA 60	49.5S	38 06.0W	S VLCN06MV
1753	1/ 2/81			DPBR E	STA 46-47	NDA 60	42.3S	38 09.1W	S VLCN06MV

GMT TIME	D / M / Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
1819	1/ 2/81			DPBR B	STA 47-48	NDA 60	41.0S	38 09.7W	S VLCN06MV
1944	1/ 2/81			DPBR E	STA 47-48	NDA 60	31.3S	38 07.3W	S VLCN06MV
2148	1/ 2/81			DPBR B	STA 48-49	NDA 60	30.5S	38 08.0W	S VLCN06MV
2237	1/ 2/81			DPBR E	STA 48-49	NDA 60	22.4S	38 06.2W	S VLCN06MV
1247	2/ 2/81			DPBR B	STA 53-54	NDA 59	39.3S	38 07.0W	S VLCN06MV
1353	2/ 2/81			DPBR E	STA 53-54	NDA 59	30.7S	38 08.5W	S VLCN06MV
1602	2/ 2/81			DPBR B	STA 54-55	NDA 59	28.7S	38 09.7W	S VLCN06MV
1703	2/ 2/81			DPBR E	STA 54-55	NDA 59	19.4S	38 09.7W	S VLCN06MV
1835	2/ 2/81			DPBR B	STA 55-56	NDA 59	19.3S	38 10.6W	S VLCN06MV
1938	2/ 2/81			DPBR E	STA 55-56	NDA 59	11.3S	38 07.1W	S VLCN06MV
1449	3/ 2/81			DPBR B	STA 61-62	NDA 58	22.1S	38 03.3W	S VLCN06MV
1634	3/ 2/81			DPBR E	STA 61-62	NDA 58	10.7S	38 04.5W	S VLCN06MV
1842	3/ 2/81			DPBR B	STA 62-63	NDA 58	08.9S	38 04.6W	S VLCN06MV
1941	3/ 2/81			DPBR E	STA 62-63	NDA 58	00.4S	38 07.5W	S VLCN06MV
2101	3/ 2/81			DPBR B	STA 63-64	NDA 57	59.3S	38 05.3W	S VLCN06MV
2150	3/ 2/81			DPBR E	STA 63-64	NDA 57	51.0S	38 05.0W	S VLCN06MV
1209	4/ 2/81			DPBR B	STA 68-69	NDA 57	10.1S	38 04.7W	S VLCN06MV
1306	4/ 2/81			DPBR E	STA 68-69	NDA 57	01.0S	38 04.6W	S VLCN06MV
1441	4/ 2/81			DPBR B	STA 69-70	NDA 57	00.7S	38 03.0W	S VLCN06MV
1545	4/ 2/81			DPBR E	STA 69-70	NDA 56	49.7S	38 03.6W	S VLCN06MV
1805	4/ 2/81			DPBR B	STA 70-71	NDA 56	49.3S	38 03.1W	S VLCN06MV
1900	4/ 2/81			DPBR E	STA 70-71	NDA 56	39.4S	38 05.5W	S VLCN06MV
2022	4/ 2/81			DPBR B	STA 71-72	NDA 56	37.3S	38 05.9W	S VLCN06MV
2112	4/ 2/81			DPBR E	STA 71-72	NDA 56	31.1S	38 06.4W	S VLCN06MV
1326	5/ 2/81			DPBR B	STA 77-78	NDA 55	38.1S	38 05.1W	S VLCN06MV
1421	5/ 2/81			DPBR E	STA 77-78	NDA 55	30.4S	38 06.3W	S VLCN06MV
1629	5/ 2/81			DPBR B	STA 78-79	NDA 55	31.5S	38 04.2W	S VLCN06MV
1755	5/ 2/81			DPBR E	STA 78-79	NDA 55	21.6S	38 04.7W	S VLCN06MV
1910	5/ 2/81			DPBR B	STA 79-80	NDA 55	21.1S	38 04.6W	S VLCN06MV
2110	5/ 2/81			DPBR E	STA 79-80	NDA 55	11.0S	38 04.3W	S VLCN06MV
2225	5/ 2/81			DPBR B	STA 80-81	NDA 55	12.6S	38 03.4W	S VLCN06MV
2232	5/ 2/81			DPBR E	STA 80-81	NDA 55	11.5S	38 03.5W	S VLCN06MV
0740	6/ 2/81			DPBR B	STA 84-85	NDA 54	27.5S	38 10.0W	S VLCN06MV
1550	8/ 2/81			DPBR E	STA 84-85	NDA 52	57.6S	33 15.6W	S VLCN06MV
1711	8/ 2/81			DPBR B	STA 85-86	NDA 53	01.1S	33 15.0W	S VLCN06MV
1819	8/ 2/81			DPBR E	STA 85-86	NDA 53	01.8S	33 14.5W	S VLCN06MV

GMT D / M / Y		LOC LOC	CODE	SAMPLE IDENT.	CODE	06MAY81		PAGE	13	LEG-SHIP
TIME	DATE	TIME TZ	SAMP		DISP.	LAT.	LONG.			CRUISE
2017	8/ 2/81		DPBR B	STA 86-87	NDA 53	10.6S	33 15.8W	S	VLCN06MV	
2127	8/ 2/81		DPBR E	STA 86-87	NDA 53	10.5S	33 16.2W	S	VLCN06MV	
1250	9/ 2/81		DPBR B	STA 9L-97	NDA 53	52.6S	33 22.9W	S	VLCN06MV	
1331	9/ 2/81		DPBR E	STA 9L-97	NDA 53	58.6S	33 23.0W	S	VLCN06MV	
1511	9/ 2/81		DPBR B	STA 97-98	NDA 53	59.0S	33 22.7W	S	VLCN06MV	
1621	9/ 2/81		DPBR E	STA 97-98	NDA 54	09.1S	33 27.4W	S	VLCN06MV	
1525	10/ 2/81		DPBR B	STA 106-107	NDA 55	32.7S	33 43.9W	S	VLCN06MV	
1624	10/ 2/81		DPBR E	STA 106-107	NDA 55	40.3S	33 44.1W	S	VLCN06MV	
1750	10/ 2/81		DPBR B	STA 10 -108	NDA 55	40.4S	33 44.7W	S	VLCN06MV	
1839	10/ 2/81		DPBR E	STA 10 -108	NDA 55	47.6S	33 46.3W	S	VLCN06MV	
1531	12/ 2/81		DPBR B	STA 114-115	NDA 58	18.0S	34 10.6W	S	VLCN06MV	
1631	12/ 2/81		DPBR E	STA 114-115	NDA 58	17.4S	34 08.7W	S	VLCN06MV	
1744	12/ 2/81		DPBR B	STA 115-116	NDA 58	26.2S	34 13.2W	S	VLCN06MV	
1938	12/ 2/81		DPBR E	STA 115-116	NDA 58	29.8S	34 16.7W	S	VLCN06MV	
2116	12/ 2/81		DPBR B	STA 116-117	NDA 58	37.2S	34 17.9W	S	VLCN06MV	
2212	12/ 2/81		DPBR E	STA 116-117	NDA 58	41.4S	34 17.4W	S	VLCN06MV	
9900				END SAMPLE INDEX					VLCN06MV	