INFORMAL REPORT AND INDEX OF

NAVIGATION, DEPTH MAGNETIC AND SUBBOTTOM PROFILER DATA

(ISSUED FEBRUARY 1981)

VULCAN EXPEDITION

LEG 5

Valparaiso, Chile (2 December 1980) to Punta Arenas, Chile (11 January 1981)

R/V Melville

Co-Chief Scientists - H. Dick (WHO) and L. Lawyer (MIT)

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 OCE79-20482 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.

GDC Cruise I.D.# - 181

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.

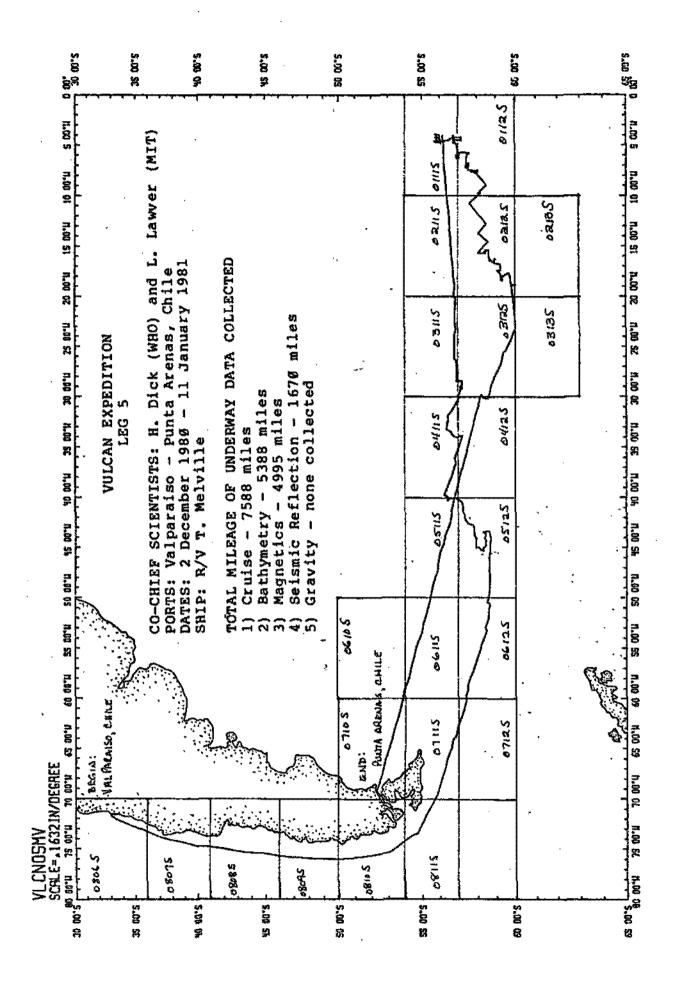
For information on the availability and reproduction costs of data in the following forms, contact S. M. Smith, Curator, Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093. Phone (714) 452-2752.

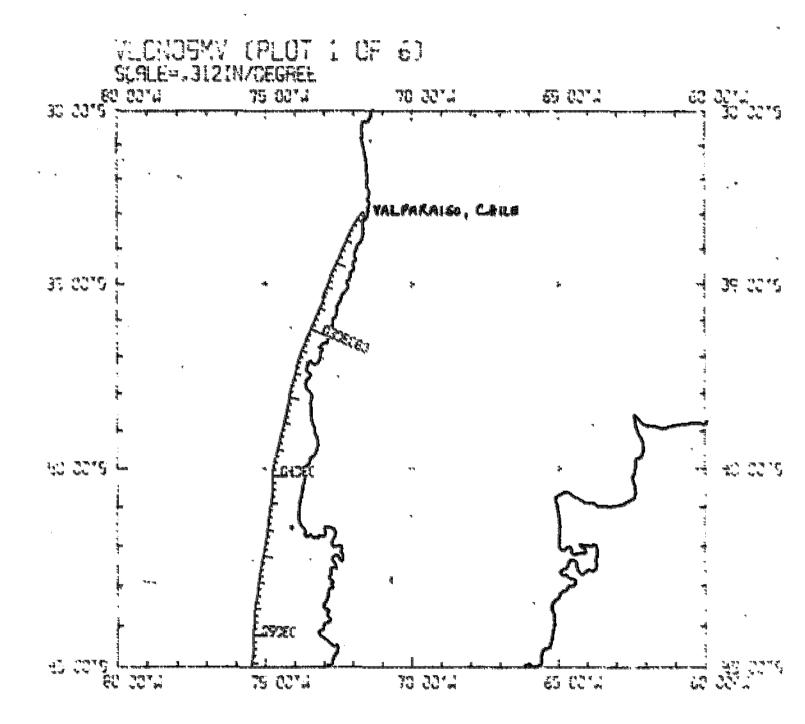
- Navigation listing of times and positions of course and speed changes, fixes and drift velocity.
- Depth compilation plots in fathoms (assumed sound velocity of 800 fm/sec) or meters (assumed sound velocity of 1500m/sec) at approximately 1 mile spacing, plotted at 4in/degree with standard U. S. Navy 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.
- Card decks of navigation, depth and magnetics (for specific formats, contact S. M. Smith, Geological Data Center).
- 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.
- Microfilm or Xerox copies of:
 a. Echosounder records 12 and 3.5 kHz frequency

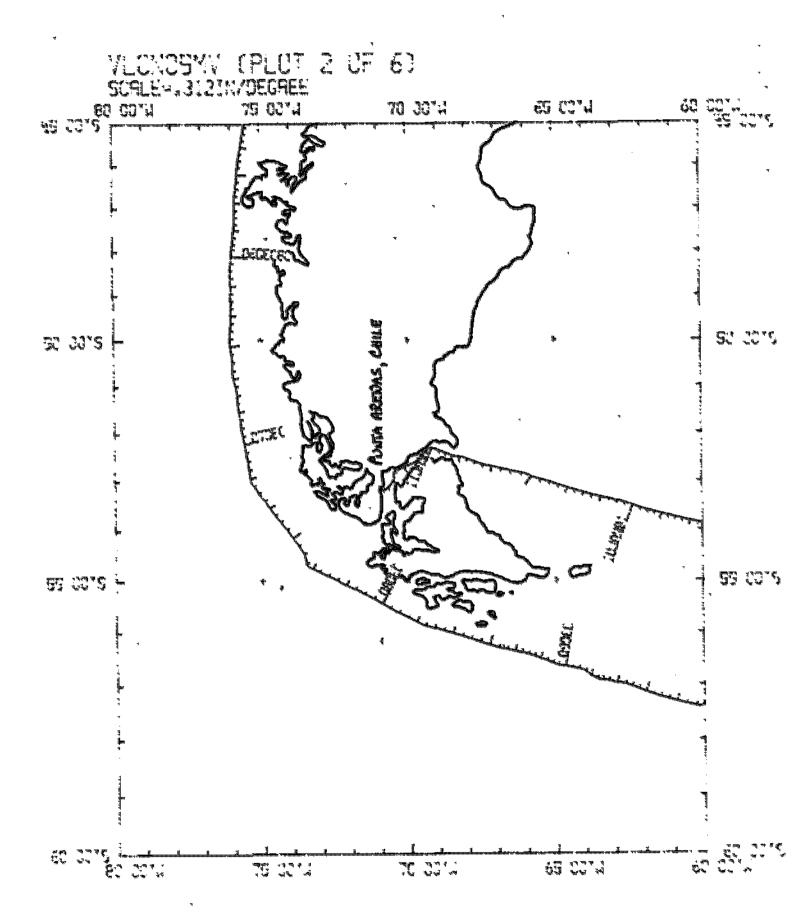
b. Subbottom profiler records (airgun)

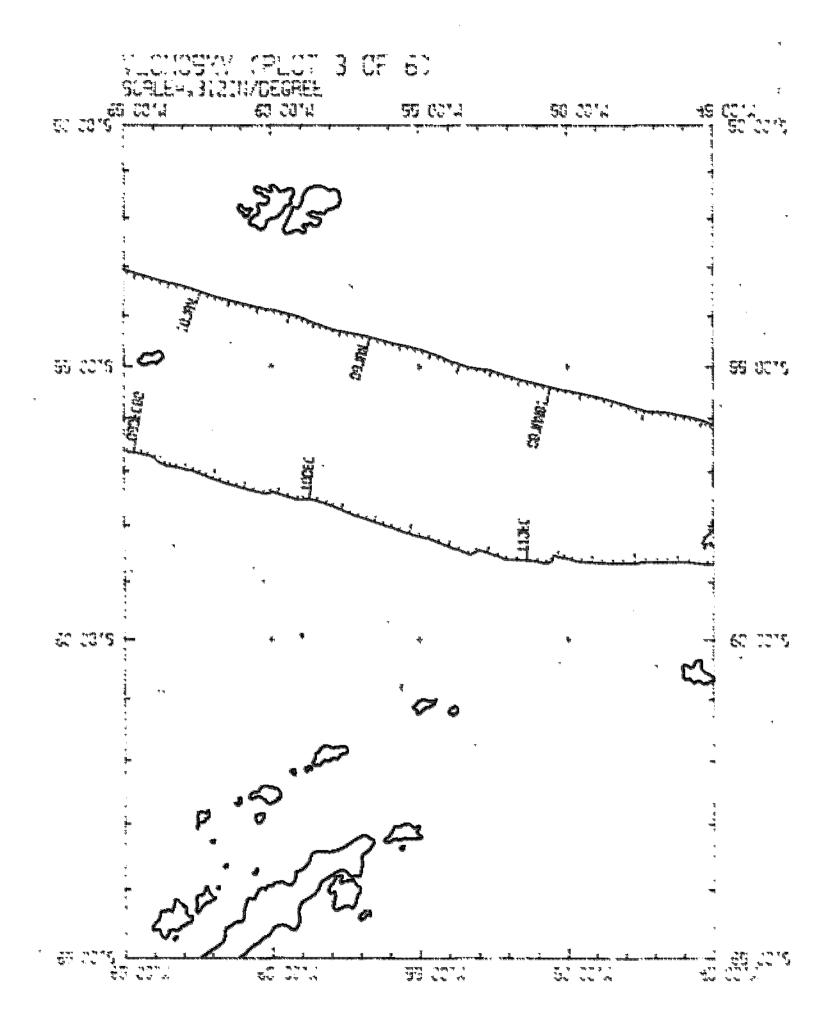
c. Magnetometer records

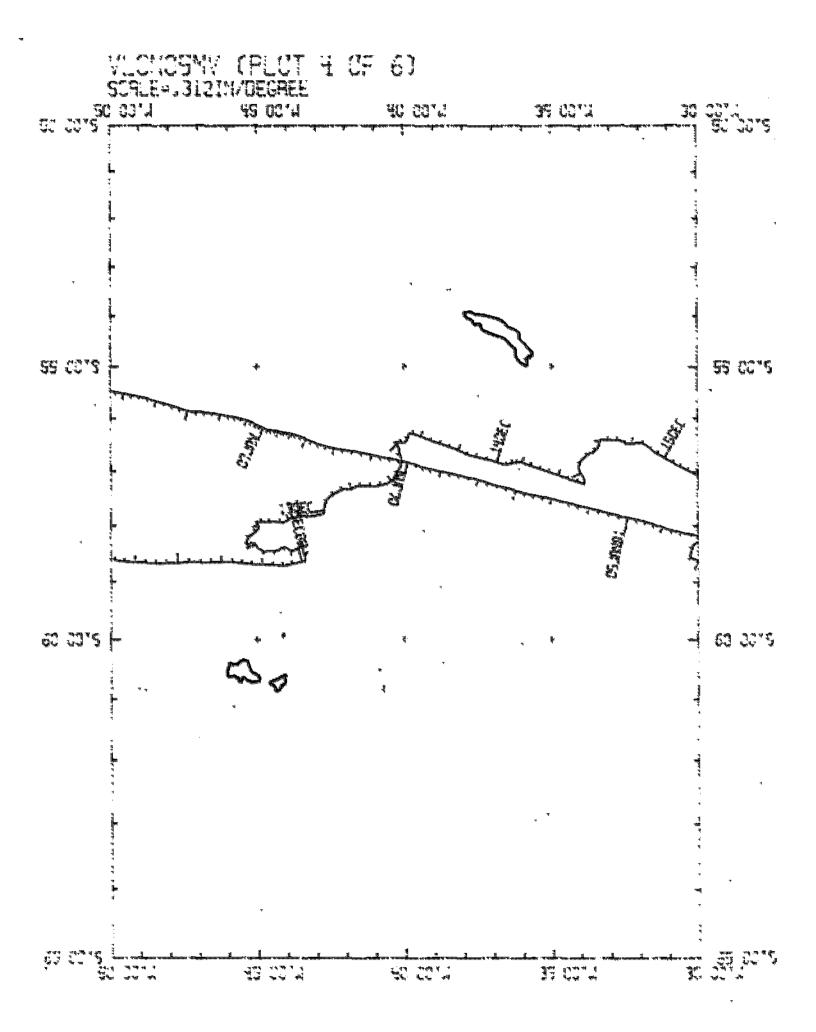
d. Underway data log

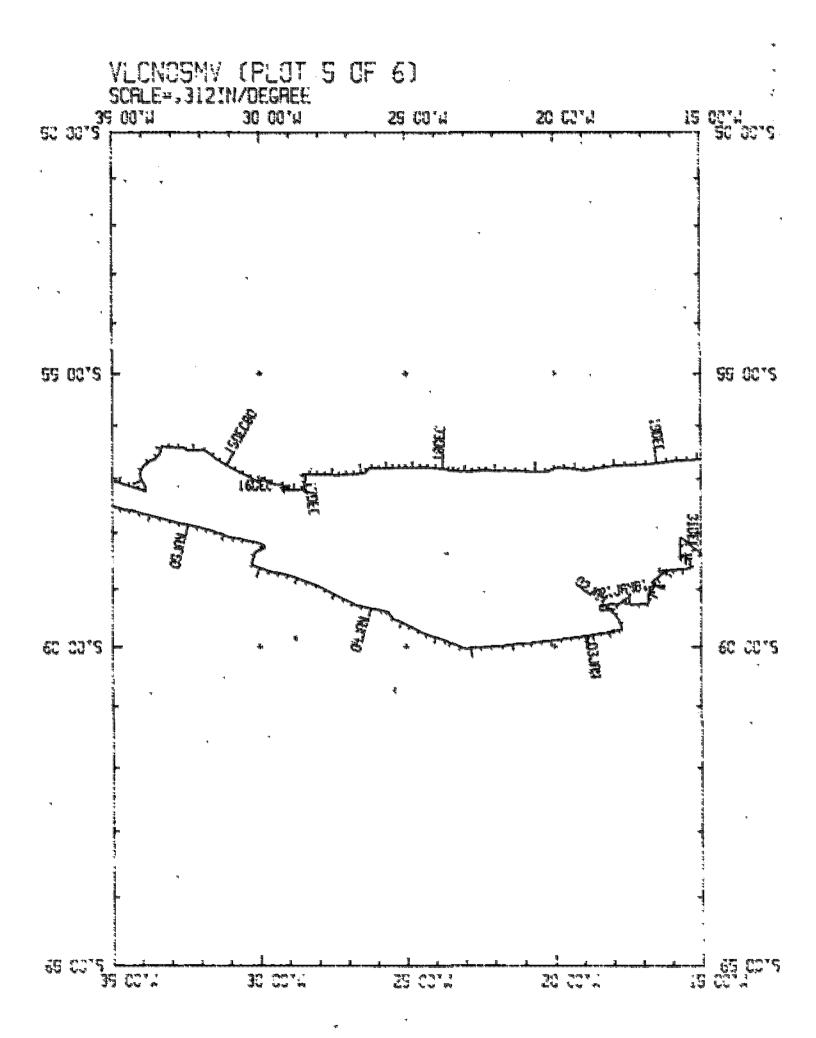


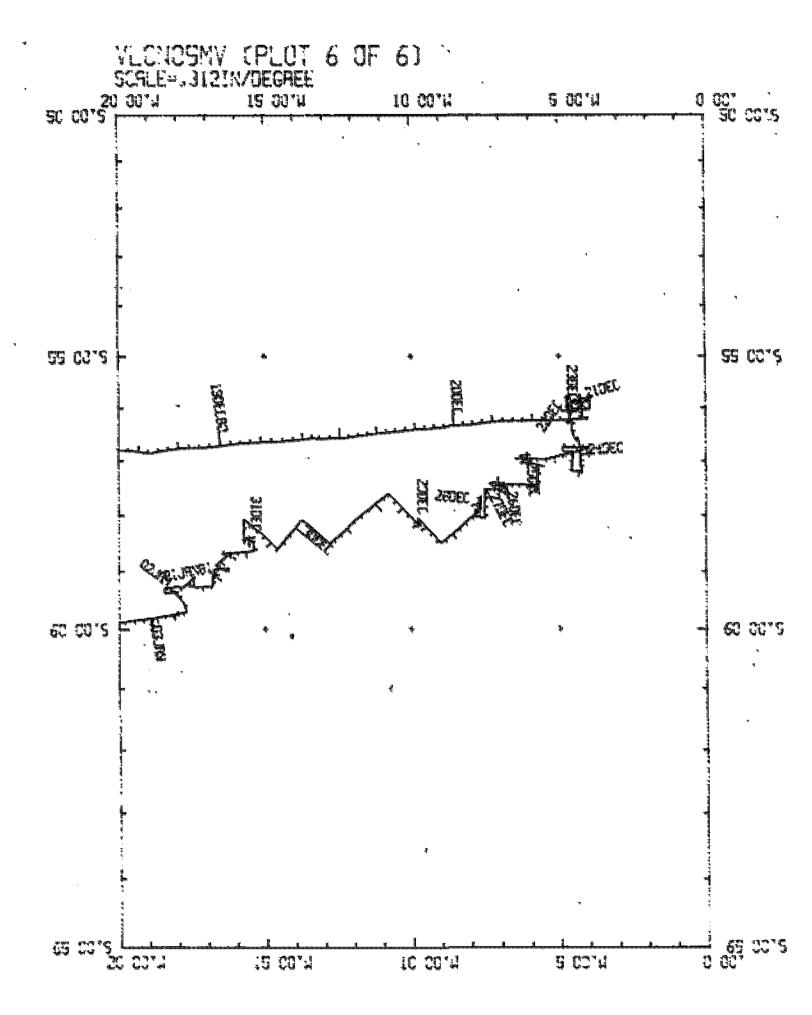


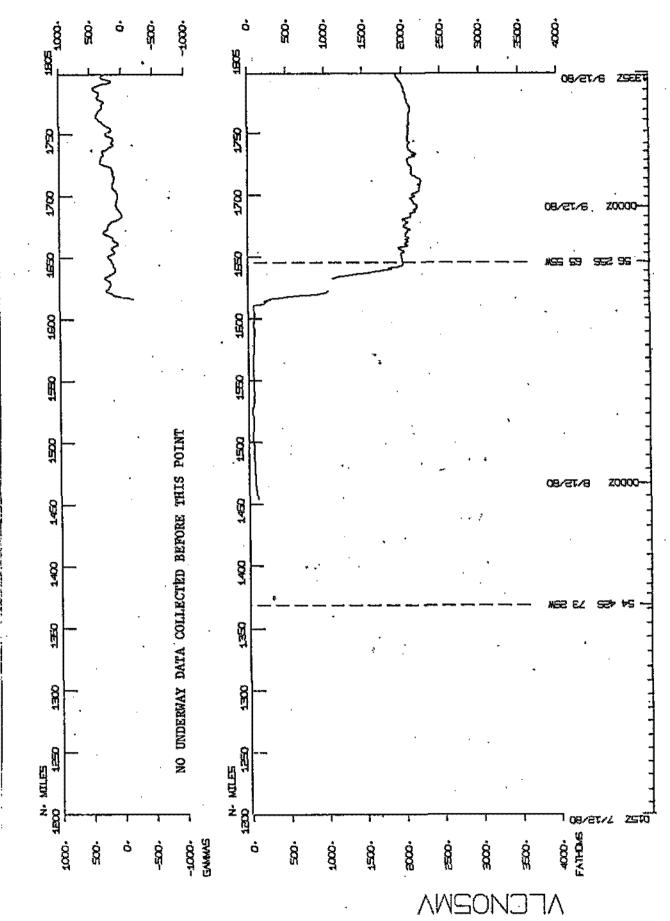


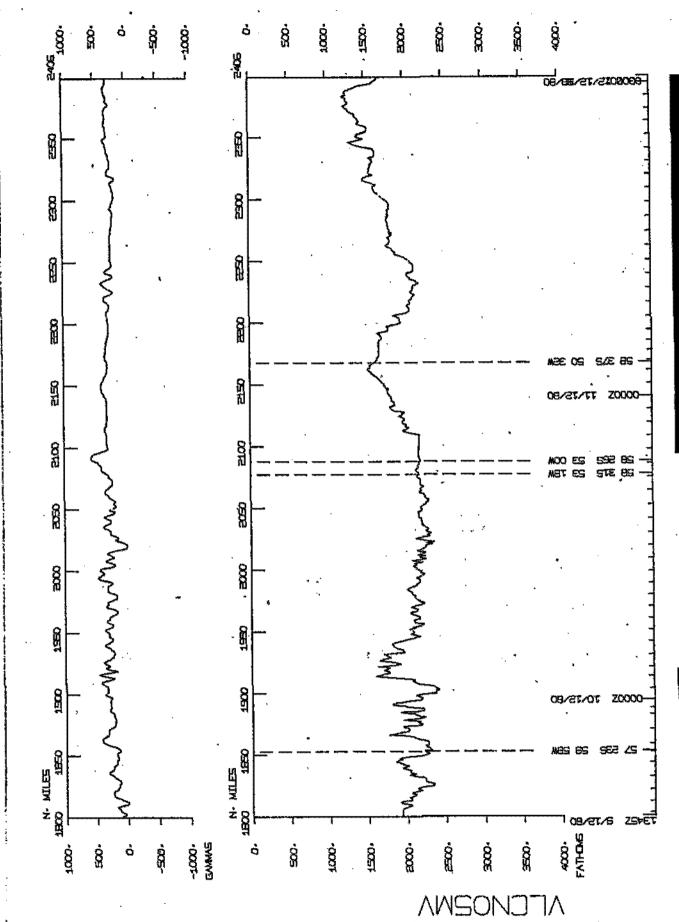


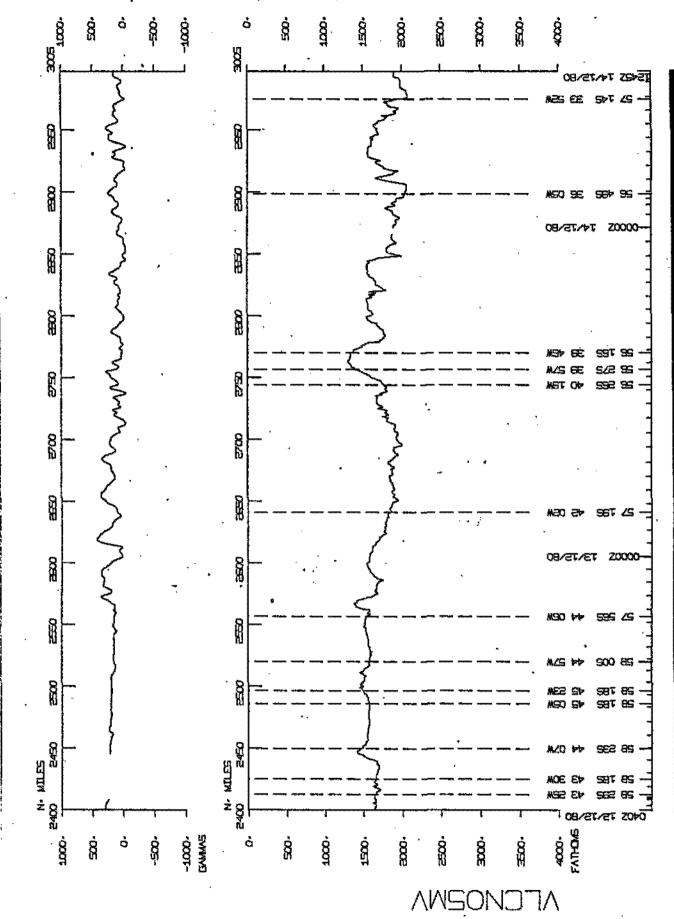




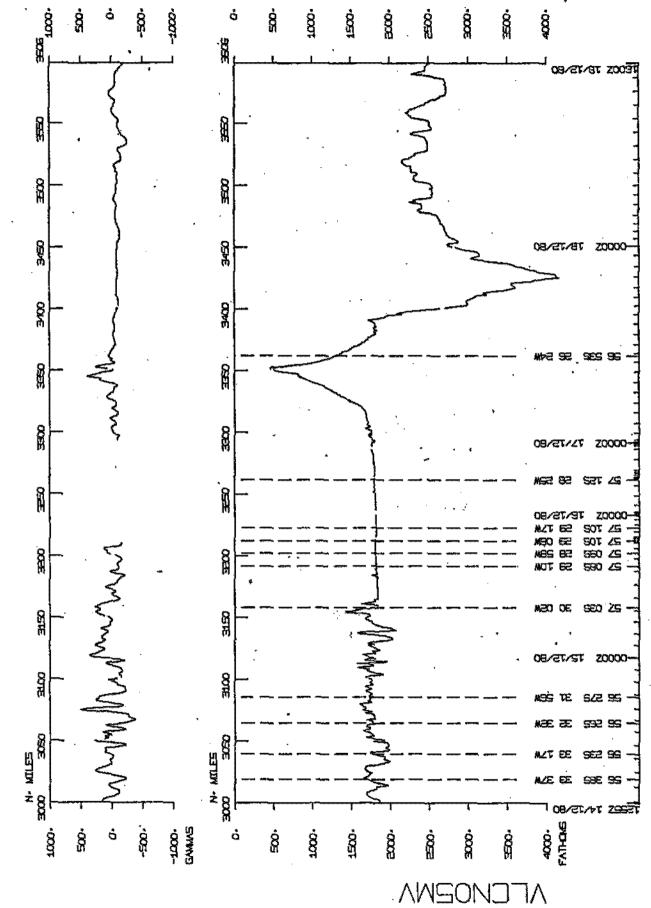


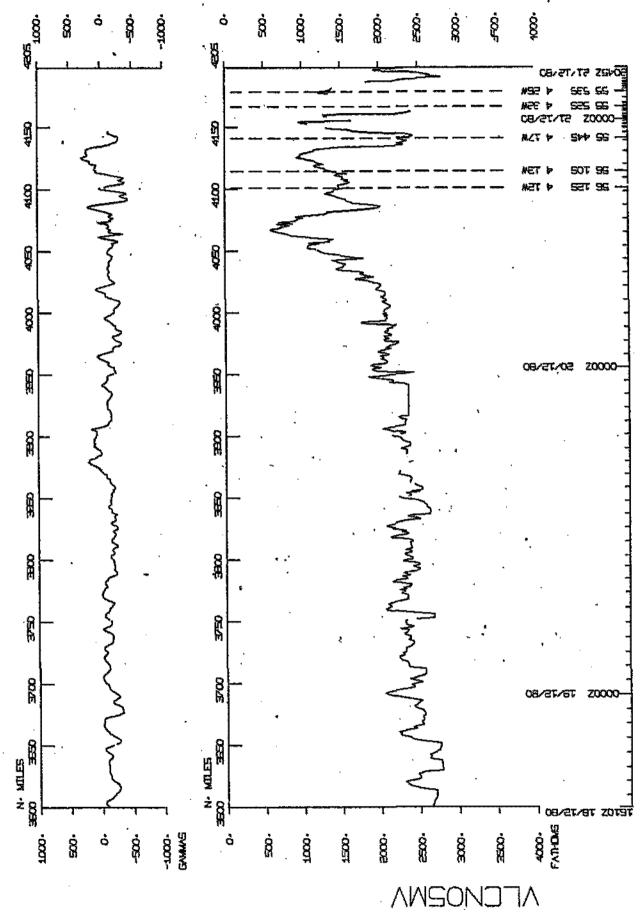


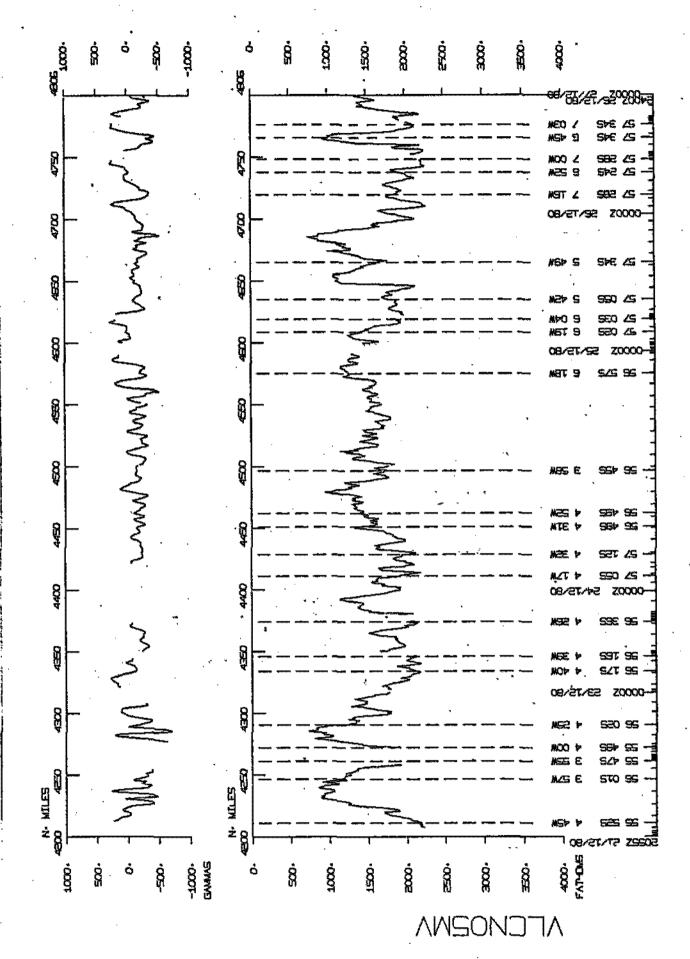




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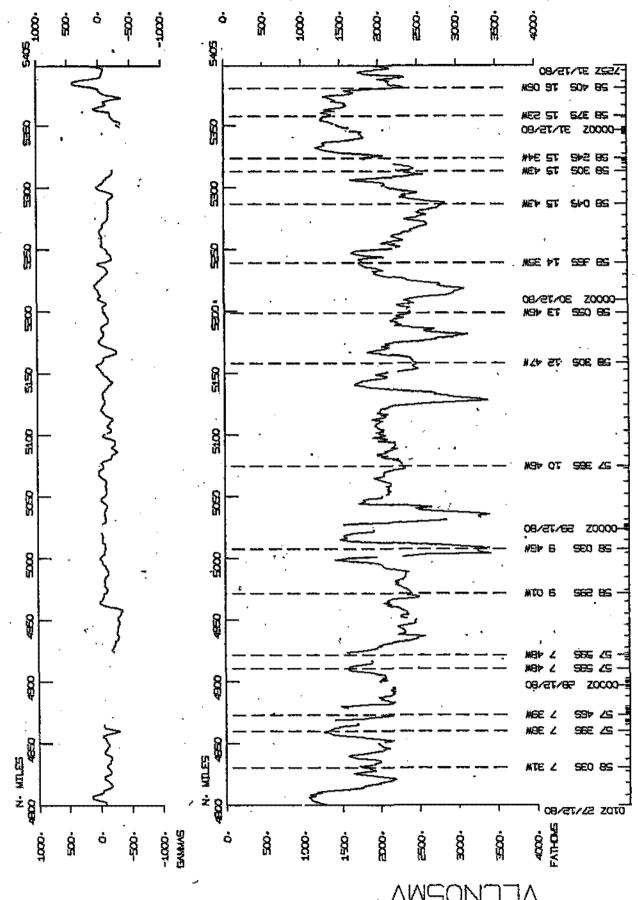




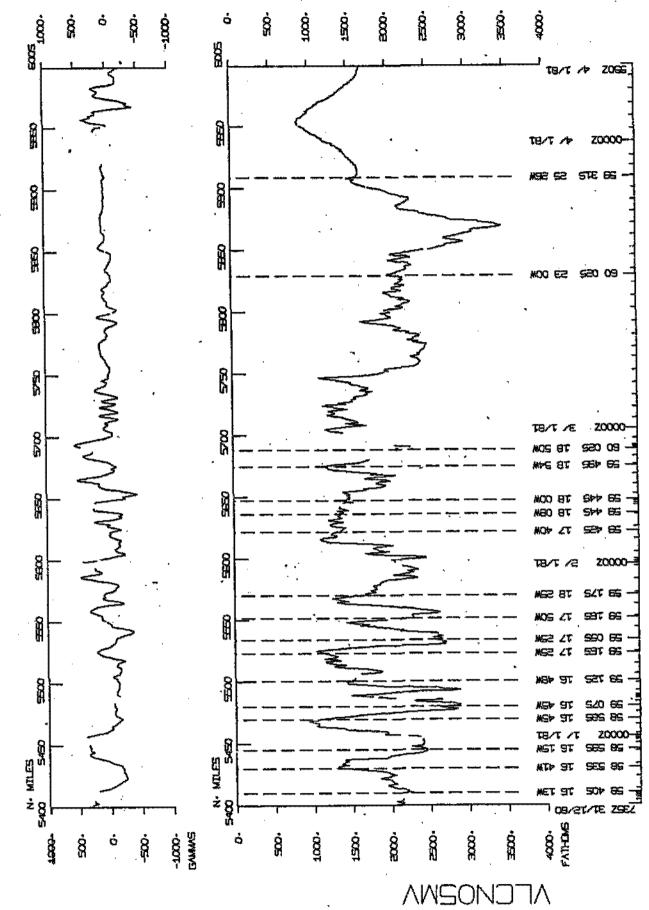


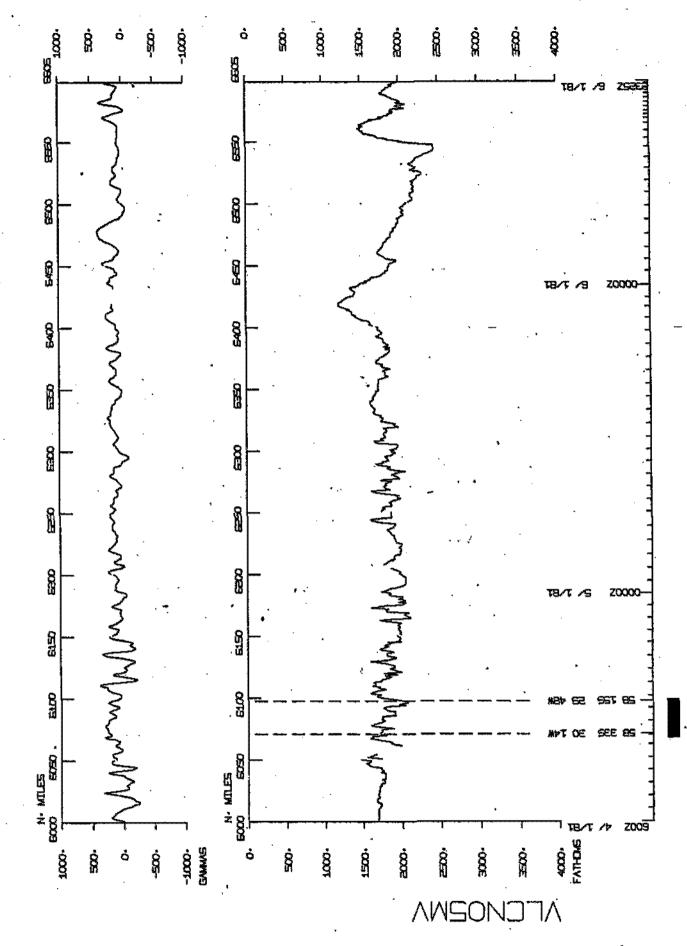
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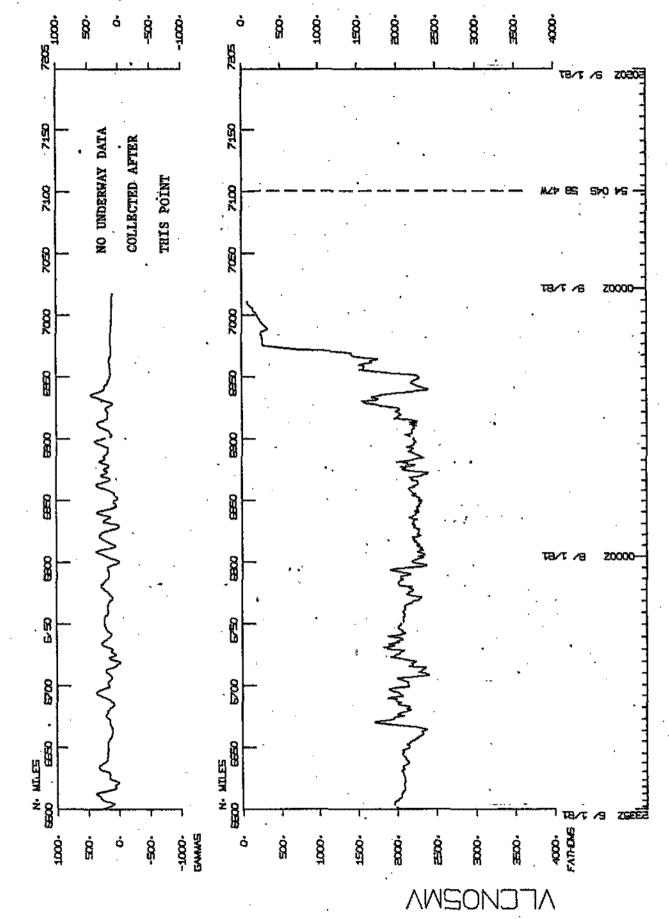
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VLCNOSMV







S.I.O. Sample Index

(Issued February 1981)

VULCAN EXPEDITION LEG 5

Valparaiso, Chile (2 December 1980) to Punta Arenas, Chile (11 January 1981)

R/V Melville

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Co-Chief Scientists - H. Dick (WHO) and L. Lawver (MIT)

Resident Marine Tech - J. Boaz

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.)

S.I.D. SAMPLE INDEX

GENERATED 02MAR81

*** VULCAN LEG 5 SAMPLE INDEX

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-1518 19/12/80	DPR3 E PDR 3.5KHZ R-02	WHO 56 29.55 11 22.4W 5 VL	
1529 19/12/80	DPR3 8 PDR 3.5KHZ R-03	WHO 56 29.35 11 18.9W 5 VL	
0039 26/12/80	DPR3 E PDR 3.5KHZ R-03	WHO 57 27.25 06 55.0W 5 VL	
0048 26/12/80	DPR3 B PDR 3.5KHZ R-04	WHO 57 27.35 06 56.8W S VU	
0127 4/ 1/81	DPR3 E PDR 3.5KHZ R-04	WHO 59 17.15 26 41.1W S VU	
0135 4/ 1/81	DPR3 B PDR 3.5KHZ R-05	WHO 59 16.85 26 43.7W S VU	
2308 8/ 1/81	DPR3 E PDR 3.5KHZ R-05	WHO 54 27.5S 56 23.7W S VU	
2103 10/12/80	OPRT 8 PDR 12 KHZ R-01	WHD 58 32.65 52 22.4W 5 VL	
2043 12/12/80	Oprt e PDR 12 KHZ R-01	WHD 57 50.65 43 43.8W S VL	
2115 12/12/80	DPRT B POR 12 KH2 R-02	WHO 57 50.15 43 32.9W S VL	
1445 1/ 4/81	DPRT E PDR 12 KH2 R-02	WHO 53 10.15 70 54.9W S VL	
*** SEISMIC REFLECTIO	DN PROFILES ***		-
1430 8/12/80	SPSV B AIRGUN (FAST) R-01	WHO 56 19.35 66 44.7W S VL	CN05MV
0600 18/12/80	SPSV E AIRGUN (FAST) R-01	WHO 56 51.15 22 30.5W S VL	CN05MV
2100 14/12/80	SPSV B AIRGUN (SLOW) R-01	MHO 56 28.45 31 53.1W S VU	CNOSMV
1445 4/ 1/81	SPSV E AIRGUN (SLOW) R-01	MHO 58 18.1S 30 01.0W S VU	CNOSMV
*** MAGNETOMETER ***	. .		۰.
- 1415 8/12/80	MGRA 8 MAGNETICS R-01	WHO 56 19.25 66 46.6W S VL	
0135 12/12/80	Mgra e magnetics R-01	WHO 58 28.15 43 22.0W S VL	
0145 12/12/80	MGRA B MAGNETICS R-02	WHO 58 28.85 43 22.3W 5 VL	
2300 19/12/80	Mgra E magnetics R-02	WHO 56 21.35 08 52.7H 5 VL	
2305 19/12/80	MGRA B MAGNETICS R-03	WHO 56 21.25 08 51.14 5 VL	
1300 .7/ 1/81	Mgra e magnetics R-03	WHO 55 48.95 47 36.9W 5 VL	

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SMT D /M /Y LOC LOC		O2MAR81 PAGE 3 CODE LAT. LDNG. LEG-SHIP DISP
IME DATE. TIME T2	SAMP	DISP CRUISE
310 7/ 1/81 342 8/ 1/81	MGRA B MAGNETICS R-04 MGRA E MAGNETICS R-04	
* OREDGES ***		
937 20/12/80 150 20/12/80	DRRO 8 STA-18 Drro e sta-18	2489M WHD 55 52.35 04 17.0W S VLCNOSMV 2032M WHD 55 54.2S 04 18.7W S VLCNOSMV
LO2 21/12/80 232 21/12/80	DRRO B STA-19 DRRO E STA-19	3208M NHO 55 51.55 04 20.4W \$ VLCNOSMV 3208M NHO 55 52.15 04 21.9W \$ VLCNOSMV
620 21/12/80 021 21/12/80	DRRO B STA-20 Drro E Sta-20	4782M WHO 55 50.75 04 29.4W 5 VLCNOSHV 3221M WHO 55 54.35 04 35.7W S VLCNOSMV
453 21/12/80 705 21/12/80	ORRO B STA-21 Drro e sta-21	4456M WHO 55 51.25 04 28.2W S VLCNO5MV 3490M WHO 55 52.7S 04 33.4W S VLCNO5MV
240 21/12/80 107 22/12/80	DRRO B STA-22 Drro e sta-22	4563M WHD 55 47.15 04 38.4W S VLCNOSMV 4361M WHD 55 45.9S 04 42.5W S VLCNOSMV
100 22/12/80 730 22/12/80	ORRO B STA-23 Drro e sta-23	5378M WHO 55 46.65 03 57.2W S VLCNO5MV 3321M WHO 55 49.6S 04 00.9W S VLCNO5MV
125 23/12/80 305 23/12/80	DRRO B STA-24 DRRO E STA-24	3302M WHO 56 02.45 04 42.4W S VLCNO5MV 3227M WHO 56 03.65 04 41.5W S VLCNO5MV
914 23/12/80 030 23/12/80	DRRO B STA-25 Drro e sta-25	3924M HHO 56 16.25 04 37.7W S VLCNOSHV 3924M HHO 56 15.45 04 36.1W S VLCNOSHV
		3984M WHO 56 36.55 04 23.8W S VLCNOSMV 3984M WHO 56 35.85 04 22.2W S VLCNOSMV
		1079M HHD 56 54.35 06 04.4H S VLCNOSHV 1079M HHD 56 54.95 06 06.7H S VLCNOSHV
412 25/12/80 447 25/12/80	DRRO B STA-28 Orro e sta-28	2966M WHO 56 57.05 06 08.5W S VLCNOSHV 2966M WHO 56 56.35 06 08.8W S VLCNOSMV
032 25/12/80 231 25/12/80	DRRO B STA-29 Drro e sta-29	3589M WHO 57 03.85 06 03.9W S VLCNO5HV 3589M WHO 57 04.25 06 05.1W S VLCNO5HV
		4112M WHO 57 27.55 06 60.0W S VLCNOSHV 3794M WHO 57 25.55 07 02.8W S VLCNOSMV
	•	3730M WHO 57 34.25 06 58.8W 5 VLCNOSMV 3500M WHO 57 33.05 06 57.6W 5 VLCNOSMV
		3152M WHO 57 42.45 07 39.5W 5 VLCNOSHV 2543M WHO 57 42.15 07 39.2W S VLCNOSHV 3992M WHO 57 45.75 07 41.2W S VLCNOSHV
333 27/12/80 722 27/12/80	DRRO E STA-33	39998 WHD 57 45.75 07 41.2W S VLCNO5MV 27978 WHD 57 42.85 07 38.8W S VLCNO5MV

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GMT I TIME		LOC CODE TZ SAMP	SAMPLE	IDENT.	CODE DISP	O2MA LAT.	R81 PAGE Long.	4 LEG-SHIP CRUISE
***HE	AT FLOH+++	· · · · · · · · · · · · · · · · · · ·						₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩ ₩ ₩₩₩₩₩
1217 1	5/12/80	HF4 M	HF-TES	T STA-02	MIT 5	7 10.45	29 08.1W S	VLCNOSMV
-1345	15/12/80	H#4N	HF1	STA-03	MIT 5	7 10.75	29 06.9W S	VLCNOSHV
	15/12/80	HFAM	HF-2	STA-04	MIT 5	7 11.35	29 06.4W S	VLCNOSMV .
	15/12/80	HFAM	HF-3	STA-05		7 11.05	29 06.5W S	VLCNOSMV
	6/12/80	HF4N	HF 4	STA-07		7 12.65	29 12,3W S	VLCNOSMV
*******	16/12/80	HFAM	HF-5	STA-08		7 12,95	29 13.8W S	
	6/12/80	HFAM	HF-6	STA-09		7 13.25	29 13.1H S	
	16/12/80	HFAN	HF-7	STA-11		7 13.35	28 26.9W S	
	6/12/80	托 卡本州	HF-8	STA-12		7 14.85	28 28.2W S	
	16/12/80	HF4N	HF-9	STA-13		7 14.85	28 28.6H S	
	16/12/80	1#F4M	HF-10	STA~15		6 55.15	28 26.5W 5	
	17/12/80 L7/12/80	HF4N	HF-11	STA-16		6 55.05	28 28.8W 5	
VELL		· HFAH	HF-12	STA-17	H11 2	6 55.0S	28 30.9W S	ATCUADUA
*** C(DRES ***	•	.•		•			9
- 1100	15/12/80	COGV	GC-1	STA-O1	WHO 5	7 09.75	29 08.1W S	VLCNOSHV
2322	15/12/80	COGV	GC-2	STA-06	WHO 5	7 12.55	29 12.9H S	VLCNOSHV
1037	16/12/80	CDGV >	(GC-3	STA-10 NO. SAMP	WHO 5	7 12.55	28 27.0W S	VLCNOSMV
2055	16/12/80	COGV >	(GC-4	STA-14 NO SAMP	NHO 5	6 54.85	28 28.5W S	VLCNOSMV
9900		ENC) SAMPLE	INDEX			VLCNO	SNV
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