INFORMAL REPORT AND SAMPLE INDEX

FOR

VULCAN EXPEDITION LEG 7

Punta Arenas, Chile (25 February 1981)

to

Valparaiso, Chile (3 April 1981)

R/V Melville

Chief Scientist - O. Holm-Hansen (SIO)

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

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

NOTE:
This report contains only the small scale track plot. No underway data were collected. Distance travelled was 3567 miles. Digitized navigation is available through the IBM 1800 processing system only.

S.I.O. Sample Index

(Issued July 1981)

VULCAN EXPEDITION

Leg 7

Punta Arenas, Chile (25 February 1981)
to
Valparaison, Chile (3 April 1981)

R/V Melville

Chief Scientist - O. Holm-Hansen (SIO)

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

Index Encoding Funded by NSF
Grant Number OCE80-22996
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.O. SAMPLE INDEX GENERATED 12MAR82

*** VULCAN LEG 7 SAMPLE INDEX (VLCN07MV) ***

25FEB81 - PUNTA ARENAS,CHILE

TO

03APR81 - VALPARAISO, CHILE

CHIEF SCIENTIST - HOLM-HANSEN,O. SIO

SHIP - R/V MELVILLE (SIO)

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

GMT TIME	D /M /Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
					VULCAN LEG 7 SAMPLE INDEX				VLCN07MV
*** PORTS ***									
2030	25/ 2/81			LGPT	B PUNTA ARENAS,CHILE		53 10. S	70 54. W	F VLCN07MV
1839	3/ 4/81			LGPT	E VALPARAISO, CHILE		33 02. S	71 37. W	F VLCN07MV

PERSONNEL

*** NAME ***	*** TITLE ***	*** AFFILIATION ***
1 HOLM-HANSEN,O.	CHIEF SCIENTIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
2 AMMERMAN,J.		SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
3 ANTEZANA,T.		CHILE
4 ANTEZANA,C.		CHILE
5 ANDRADE,S.		CHILE
6 AZAM,F.		SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
7 BIDIGARE,R.		TEXAS A+M UNIVERSITY
8 BRINTON,E.		SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
9 BENNET,D.		SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)
10 COOPER,N.	STAFF RES. ASSOC.	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
11 DALY, K.	STAFF RES. ASSOC.	UNIV. OF WASHINGTON, SEATTLE
12 HENRY,A.	COMPUTER TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
13 HESTER,A.		SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
14 HIPSER,C.		SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)
15 HOLM-HANSEN,T.	VOLUNTEER	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)
16 IKEDA,T.		AUSTRALIA
17 JOHNSON,M.		TEXAS A+M UNIVERSITY
18 KEIFER,D.		SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)
19 KOIKE,I.		JAPAN
20 MACCAULAY,M.		SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)
21 MARAK,R.		NATIONAL OCEANOG. + ATMOSPH. ADMINISTRATION
22 MATHISON,O.	SCIENTIST	UNIV. OF WASHINGTON, SEATTLE
23 MILLING,B.		SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)
24 NEORI,A.		SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
25 PADEN,C.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
26 SAKSHAUG,E.		SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)
27 SANCHEZ,F.		SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
28 SHULENBERGER,E.		SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)
29 STEVENS,P.		SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)
30 WORMUTH,J.		TEXAS A+M UNIVERSITY

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 TIME	D /M /Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
CONDUCTIVITY, TEMPERATURE, DEPTH									
2252	28/ 2/81			TDCT	81134	300M R 7	FCR 60 55.4S	54 58.8W S	VLCN07MV
1508	2/ 3/81			TDCT	81135	500M R12	FCR 61 01.0S	54 44.2W S	VLCN07MV
1305	3/ 3/81			TDCT	81136	475M R12	FCR 61 02.7S	54 44.5W S	VLCN07MV
0136	4/ 3/81			TDCT	81137	150M R 9	FCR 61 01.5S	54 47.2W S	VLCN07MV
1257	4/ 3/81			TDCT	81138	150M R 9	FCR 61 03.1S	54 50.4W S	VLCN07MV
2256	5/ 3/81			TDCT	81139	500M R12	FCR 60 59.3S	54 51.4W S	VLCN07MV
1047	6/ 3/81			TDCT	81140	500M R12	FCR 60 59.2S	54 58.0W S	VLCN07MV
2253	6/ 3/81			TDCT	81141	500M R12	FCR 60 58.9S	54 40.6W S	VLCN07MV
1027	7/ 3/81			TDCT	81142	450M R12	FCR 61 02.2S	54 47.1W S	VLCN07MV
2337	7/ 3/81			TDCT	81143	500M R12	FCR 60 56.9S	55 13.2W S	VLCN07MV
2326	8/ 3/81			TDCT	81144	275M R12	FCR 60 56.6S	55 07.4W S	VLCN07MV
2102	9/ 3/81			TDCT	81145	750M R12	FCR 61 24.3S	55 09.3W S	VLCN07MV
1129	10/ 3/81			TDCT	81146	500M R12	FCR 62 00.1S	57 00.6W S	VLCN07MV
1245	11/ 3/81			TDCT	81147	825M R12	FCR 63 04.7S	60 05.7W S	VLCN07MV
1901	11/ 3/81			TDCT	81148	250M R12	FCR 62 59.3S	60 33.5W S	VLCN07MV
1423	14/ 3/81			TDCT	81149	300M R12	FCR 61 04.2S	53 52.2W S	VLCN07MV
1719	15/ 3/81			TDCT	81150	1000M R12	FCR 60 57.5S	49 56.5W S	VLCN07MV
0915	16/ 3/81			TDCT	81151	250M R12	FCR 61 09.5S	46 34.0W S	VLCN07MV
2206	16/ 3/81			TDCT	81152	1000M R12	FCR 60 17.2S	46 30.5W S	VLCN07MV
0343	17/ 3/81			TDCT	81153	1000M R12	FCR 59 59.1S	46 47.7W S	VLCN07MV
0701	17/ 3/81			TDCT	81154	1000M R12	FCR 59 50.9S	46 38.8W S	VLCN07MV
1013	17/ 3/81			TDCT	81155	1000M R12	FCR 59 39.1S	46 20.3W S	VLCN07MV
1253	17/ 3/81			TDCT	81156	1000M R12	FCR 59 29.0S	46 33.2W S	VLCN07MV
1631	17/ 3/81			TDCT	81157	1000M R12	FCR 59 23.8S	46 33.0W S	VLCN07MV
2012	17/ 3/81			TDCT	81158	1000M R12	FCR 59 11.2S	46 35.5W S	VLCN07MV
2243	17/ 3/81			TDCT	81159	1000M R12	FCR 59 03.1S	46 38.4W S	VLCN07MV
1705	18/ 3/81			TDCT	81160	500M R12	FCR 59 49.5S	50 00.1W S	VLCN07MV
2337	20/ 3/81			TDCT	81161	100M R 9	FCR 61 01.4S	55 16.8W S	VLCN07MV
1147	21/ 3/81			TDCT	81162	900M R12	FCR 60 53.3S	55 13.2W S	VLCN07MV
1301	22/ 3/81			TDCT	81163	500M R12	FCR 60 52.0S	55 21.6W S	VLCN07MV
1231	23/ 3/81			TDCT	81164	1000M R12	FCR 60 45.9S	56 36.3W S	VLCN07MV
2024	23/ 3/81			TDCT	81165	1000M R12	FCR 60 04.5S	58 17.4W S	VLCN07MV
0935	24/ 3/81			TDCT	81166	1000M R12	FCR 58 45.4S	61 10.3W S	VLCN07MV
1918	24/ 3/81			TDCT	81167	500M R12	FCR 57 52.8S	63 11.2W S	VLCN07MV
0216	25/ 3/81			TDCT	81168	500M R12	FCR 57 29.6S	64 00.1W S	VLCN07MV
OPEN NET									
0708	4/ 3/81			ONBG B	137-1	995 51M	MLR 61 01.7S	54 49.6W S	VLCN07MV
0724	4/ 3/81			ONBG E	137-1	995 51M	MLR 61 02.8S	54 49.2W S	VLCN07MV
0730	4/ 3/81			ONBG B	137-2	1150 51M	MLR 61 03.3S	54 49.0W S	VLCN07MV
0751	4/ 3/81			ONBG E	137-2	1150 51M	MLR 61 04.8S	54 48.4W S	VLCN07MV
0801	4/ 3/81			ONBG B	137-3	1516 54M	MLR 61 04.8S	54 48.3W S	VLCN07MV
0825	4/ 3/81			ONBG E	137-3	1516 54M	MLR 61 03.1S	54 48.9W S	VLCN07MV

GMT TIME	D /M /Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.		CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
0836	4/ 3/81			ONBG B 137-4	947	51M	MLR	61 02.2S	54 49.3W S	VLCNO7MV
0852	4/ 3/81			ONBG E 137-4	947	51M	MLR	61 00.9S	54 49.9W S	VLCNO7MV
0855	4/ 3/81			ONBG B 137-5	895	51M	MLR	61 00.7S	54 50.1W S	VLCNO7MV
0913	4/ 3/81			ONBG E 137-5	895	51M	MLR	60 59.0S	54 50.8W S	VLCNO7MV
0915	4/ 3/81			ONBG B 137-6	1870	129M	MLR	60 58.8S	54 50.9W S	VLCNO7MV
0951	4/ 3/81			ONBG E 137-6	1870	129M	MLR	60 55.9S	54 52.2W S	VLCNO7MV
0954	4/ 3/81			ONBG B 137-7	1582	129M	MLR	60 55.7S	54 52.3W S	VLCNO7MV
1030	4/ 3/81			ONBG E 137-7	1582	129M	MLR	60 57.5S	54 51.8W S	VLCNO7MV
0825	5/ 3/81			ONBG B 138-1	1177	141M	MLR	60 57.0S	54 55.5W S	VLCNO7MV
0835	5/ 3/81			ONBG E 138-1	1177	141M	MLR	60 57.4S	54 55.3W S	VLCNO7MV
0853	5/ 3/81			ONBG B 138-2	1175	141M	MLR	60 58.4S	54 55.0W S	VLCNO7MV
0902	5/ 3/81			ONBG E 138-2	1175	141M	MLR	60 58.9S	54 54.8W S	VLCNO7MV
0922	5/ 3/81			ONBG B 138-3	1375	141M	MLR	61 00.1S	54 53.4W S	VLCNO7MV
0942	5/ 3/81			ONBG E 138-3	1375	141M	MLR	61 01.3S	54 52.2W S	VLCNO7MV
0945	5/ 3/81			ONBG B 138-4	1055	129M	MLR	61 01.5S	54 52.0W S	VLCNO7MV
1003	5/ 3/81			ONBG E 138-4	1055	129M	MLR	61 02.6S	54 51.4W S	VLCNO7MV
1042	5/ 3/81			ONBG B 138-5	973	112M	MLR	61 03.6S	54 51.5W S	VLCNO7MV
1056	5/ 3/81			ONBG E 138-5	973	112M	MLR	61 04.3S	54 50.8W S	VLCNO7MV
0836	6/ 3/81			ONBG B 140-1	647	80M	MLR	60 57.4S	54 58.6W S	VLCNO7MV
0846	6/ 3/81			ONBG E 140-1	647	80M	MLR	60 58.1S	54 58.0W S	VLCNO7MV
0850	6/ 3/81			ONBG B 140-2	605	80M	MLR	60 58.3S	54 57.7W S	VLCNO7MV
0900	6/ 3/81			ONBG E 140-2	605	80M	MLR	60 59.0S	54 57.1W S	VLCNO7MV
0903	6/ 3/81			ONBG B 140-3	670	80M	MLR	60 59.2S	54 56.9W S	VLCNO7MV
0914	6/ 3/81			ONBG E 140-3	670	80M	MLR	60 59.9S	54 56.3W S	VLCNO7MV
0918	6/ 3/81			ONBG B 140-4	634	80M	MLR	61 00.2S	54 56.0W S	VLCNO7MV
0928	6/ 3/81			ONBG E 140-4	634	80M	MLR	61 00.9S	54 55.4W S	VLCNO7MV
0933	6/ 3/81			ONBG B 140-5	597	80M	MLR	61 01.2S	54 55.1W S	VLCNO7MV
0944	6/ 3/81			ONBG E 140-5	597	80M	MLR	61 01.9S	54 54.4W S	VLCNO7MV
0946	6/ 3/81			ONBG B 140-6	558	80M	MLR	61 02.1S	54 54.2W S	VLCNO7MV
0956	6/ 3/81			ONBG E 140-6	558	80M	MLR	61 03.0S	54 53.1W S	VLCNO7MV
0757	7/ 3/81			ONBG B 142-1	519	80M	MLR	61 03.6S	54 37.7W S	VLCNO7MV
0809	7/ 3/81			ONBG E 142-1	519	80M	MLR	61 03.5S	54 38.6W S	VLCNO7MV
0810	7/ 3/81			ONBG B 142-2	530	80M	MLR	61 03.5S	54 38.6W S	VLCNO7MV
0822	7/ 3/81			ONBG E 142-2	530	80M	MLR	61 03.4S	54 39.6W S	VLCNO7MV
0825	7/ 3/81			ONBG B 142-3	593	80M	MLR	61 03.4S	54 40.0W S	VLCNO7MV
0837	7/ 3/81			ONBG E 142-3	593	80M	MLR	61 03.2S	54 41.4W S	VLCNO7MV

GMT TIME	D /M /Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.		CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
0842	7/ 3/81			ONBG B 142-4	589	80M	MLR 61	03.2S	54 42.0W S	VLCN07MV
0853	7/ 3/81			ONBG E 142-4	589	80M	MLR 61	03.0S	54 43.3W S	VLCN07MV
0855	7/ 3/81			ONBG B 142-5	513	80M	MLR 61	03.0S	54 43.5W S	VLCN07MV
0906	7/ 3/81			ONBG E 142-5	513	80M	MLR 61	02.9S	54 44.5W S	VLCN07MV
0910	7/ 3/81			ONBG B 142-6	667	80M	MLR 61	02.8S	54 44.9W S	VLCN07MV
0921	7/ 3/81			ONBG E 142-6	667	80M	MLR 61	02.6S	54 47.0W S	VLCN07MV
0924	7/ 3/81			ONBG B 142-7	612	80M	MLR 61	02.5S	54 47.6W S	VLCN07MV
0936	7/ 3/81			ONBG E 142-7	612	80M	MLR 61	02.2S	54 50.0W S	VLCN07MV
0938	7/ 3/81			ONBG B 142-8	614	80M	MLR 61	02.1S	54 50.4W S	VLCN07MV
0950	7/ 3/81			ONBG E 142-8	614	80M	MLR 61	01.8S	54 50.8W S	VLCN07MV
2107	7/ 3/81			ONBG B 143-1	607	80M	MLR 60	58.4S	55 04.0W S	VLCN07MV
2118	7/ 3/81			ONBG E 143-1	607	80M	MLR 60	57.8S	55 03.3W S	VLCN07MV
2125	7/ 3/81			ONBG B 143-2	555	80M	MLR 60	57.3S	55 02.7W S	VLCN07MV
2134	7/ 3/81			ONBG E 143-2	555	80M	MLR 60	56.6S	55 01.9W S	VLCN07MV
2146	7/ 3/81			ONBG B 143-3	731	80M	MLR 60	56.8S	55 02.6W S	VLCN07MV
2157	7/ 3/81			ONBG E 143-3	731	80M	MLR 60	57.3S	55 03.4W S	VLCN07MV
2200	7/ 3/81			ONBG B 143-4	399	80M	MLR 60	57.5S	55 03.6W S	VLCN07MV
2212	7/ 3/81			ONBG E 143-4	399	80M	MLR 60	58.1S	55 04.4W S	VLCN07MV
2216	7/ 3/81			ONBG B 143-5	444	80M	MLR 60	58.0S	55 05.0W S	VLCN07MV
2227	7/ 3/81			ONBG E 143-5	444	80M	MLR 60	57.9S	55 06.5W S	VLCN07MV
2229	7/ 3/81			ONBG B 143-6	538	80M	MLR 60	57.9S	55 06.7W S	VLCN07MV
2240	7/ 3/81			ONBG E 143-6	538	80M	MLR 60	57.7S	55 08.3W S	VLCN07MV
2243	7/ 3/81			ONBG B 143-7	631	80M	MLR 60	57.6S	55 08.7W S	VLCN07MV
2253	7/ 3/81			ONBG E 143-7	631	80M	MLR 60	57.4S	55 10.1W S	VLCN07MV
2256	7/ 3/81			ONBG B 143-8	697	80M	MLR 60	57.4S	55 10.6W S	VLCN07MV
2309	7/ 3/81			ONBG E 143-8	697	80M	MLR 60	57.1S	55 12.5W S	VLCN07MV
0048	8/ 3/81			ONBG B 143-9	626	80M	MLR 60	56.8S	55 12.4W S	VLCN07MV
0101	8/ 3/81			ONBG E 143-9	626	80M	MLR 60	56.4S	55 14.6W S	VLCN07MV
0113	8/ 3/81			ONBG B 143-10	656	80M	MLR 60	56.2S	55 16.5W S	VLCN07MV
0128	8/ 3/81			ONBG E 143-10	656	80M	MLR 60	55.8S	55 18.2W S	VLCN07MV
0135	8/ 3/81			ONBG B 143-11	622	80M	MLR 60	55.6S	55 18.7W S	VLCN07MV
0148	8/ 3/81			ONBG E 143-11	622	80M	MLR 60	55.5S	55 20.1W S	VLCN07MV
0157	8/ 3/81			ONBG B 143-12	959	80M	MLR 60	55.5S	55 21.6W S	VLCN07MV
0209	8/ 3/81			ONBG E 143-12	959	80M	MLR 60	55.3S	55 23.6W S	VLCN07MV
0231	8/ 3/81			ONBG B 143-13	565	80M	MLR 60	55.1S	55 26.1W S	VLCN07MV
0242	8/ 3/81			ONBG E 143-13	565	80M	MLR 60	54.8S	55 27.2W S	VLCN07MV

GMT TIME	D /M /Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.		CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
0246	8/ 3/81			ONBG B	143-14	595 80M	MLR	60 54.7S	55 27.9W S	VLCN07MV
0256	8/ 3/81			ONBG E	143-14	595 80M	MLR	60 54.3S	55 29.6W S	VLCN07MV
0300	8/ 3/81			ONBG B	143-15	602 80M	MLR	60 54.2S	55 30.0W S	VLCN07MV
0311	8/ 3/81			ONBG E	143-15	602 80M	MLR	60 54.1S	55 31.2W S	VLCN07MV
1900	8/ 3/81			ONBG	143A	755 0M	MLR	60 56.0S	55 23.2W S	VLCN07MV
1920	8/ 3/81			ONBG	143A	755 45M	MLR	60 57.2S	55 22.4W S	VLCN07MV
1900	8/ 3/81			ONBG	143A	10 45M	MLR	60 56.0S	55 23.2W S	VLCN07MV
1920	8/ 3/81			ONBG	143A	10 90M	MLR	60 57.2S	55 22.4W S	VLCN07MV
1900	8/ 3/81			ONBG	143A	0 90M	MLR	60 56.0S	55 23.2W S	VLCN07MV
1920	8/ 3/81			ONBG	143A	0 134M	MLR	60 57.2S	55 22.4W S	VLCN07MV
1900	8/ 3/81			ONBG	143A	82 134M	MLR	60 56.0S	55 23.2W S	VLCN07MV
1920	8/ 3/81			ONBG	143A	82 179M	MLR	60 57.2S	55 22.4W S	VLCN07MV
2301	9/ 3/81			ONBG B	145-1	771 73M	MLR	61 25.0S	55 09.1W S	VLCN07MV
2312	9/ 3/81			ONBG E	145-1	771 73M	MLR	61 25.3S	55 10.5W S	VLCN07MV
2328	9/ 3/81			ONBG B	145-2	694 73M	MLR	61 25.7S	55 12.5W S	VLCN07MV
2339	9/ 3/81			ONBG E	145-2	694 73M	MLR	61 26.0S	55 13.9W S	VLCN07MV
2342	9/ 3/81			ONBG B	145-3	828 73M	MLR	61 26.1S	55 14.3W S	VLCN07MV
2354	9/ 3/81			ONBG E	145-3	828 73M	MLR	61 26.4S	55 15.8W S	VLCN07MV
2356	9/ 3/81			ONBG B	145-4	783 73M	MLR	61 26.5S	55 16.1W S	VLCN07MV
0012	10/ 3/81			ONBG E	145-4	783 73M	MLR	61 26.3S	55 18.5W S	VLCN07MV
0015	10/ 3/81			ONBG B	145-5	683 73M	MLR	61 26.2S	55 19.0W S	VLCN07MV
0029	10/ 3/81			ONBG E	145-5	683 73M	MLR	61 25.7S	55 21.4W S	VLCN07MV
0045	10/ 3/81			ONBG B	145-6	620 69M	MLR	61 25.3S	55 24.2W S	VLCN07MV
0055	10/ 3/81			ONBG E	145-6	620 69M	MLR	61 25.2S	55 25.9W S	VLCN07MV
0100	10/ 3/81			ONBG B	145-7	707 69M	MLR	61 25.2S	55 26.8W S	VLCN07MV
0109	10/ 3/81			ONBG E	145-7	707 69M	MLR	61 25.0S	55 28.3W S	VLCN07MV
0112	10/ 3/81			ONBG B	145-8	673 69M	MLR	61 25.0S	55 28.8W S	VLCN07MV
0125	10/ 3/81			ONBG E	145-8	673 69M	MLR	61 24.9S	55 31.0W S	VLCN07MV
0145	10/ 3/81			ONBG B	145-9	757 69M	MLR	61 24.5S	55 33.9W S	VLCN07MV
0158	10/ 3/81			ONBG E	145-9	757 69M	MLR	61 24.3S	55 36.0W S	VLCN07MV
0204	10/ 3/81			ONBG B	145-10	740 69M	MLR	61 24.2S	55 37.0W S	VLCN07MV
0215	10/ 3/81			ONBG E	145-10	740 69M	MLR	61 24.0S	55 38.9W S	VLCN07MV
0225	10/ 3/81			ONBG B	145-11	590 69M	MLR	61 23.8S	55 40.6W S	VLCN07MV
0236	10/ 3/81			ONBG E	145-11	590 69M	MLR	61 23.6S	55 42.4W S	VLCN07MV
0240	10/ 3/81			ONBG B	145-12	560 77M	MLR	61 23.5S	55 43.1W S	VLCN07MV
0250	10/ 3/81			ONBG E	145-12	560 77M	MLR	61 23.3S	55 44.7W S	VLCN07MV
0255	10/ 3/81			ONBG B	145-13	737 77M	MLR	61 23.2S	55 45.6W S	VLCN07MV
0307	10/ 3/81			ONBG E	145-13	737 77M	MLR	61 22.9S	55 47.6W S	VLCN07MV

GMT TIME	D /M /Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.		CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
0312	10/ 3/81			ONBG B	145-14	2597 77M	MLR	61 22.8S	55 48.5W S	VLCN07MV
0332	10/ 3/81			ONBG E	145-14	2597 77M	MLR	61 22.4S	55 51.0W S	VLCN07MV
0335	10/ 3/81			ONBG B	145-15	684 77M	MLR	61 22.3S	55 51.4W S	VLCN07MV
0349	10/ 3/81			ONBG E	145-15	684 77M	MLR	61 22.0S	55 53.8W S	VLCN07MV
0352	10/ 3/81			ONBG B	145-16	998 77M	MLR	61 21.9S	55 54.3W S	VLCN07MV
0411	10/ 3/81			ONBG E	145-16	998 77M	MLR	61 21.5S	55 57.7W S	VLCN07MV
0414	10/ 3/81			ONBG B	145-17	766 77M	MLR	61 21.4S	55 58.2W S	VLCN07MV
0428	10/ 3/81			ONBG E	145-17	766 77M	MLR	61 21.1S	56 00.5W S	VLCN07MV
0432	10/ 3/81			ONBG B	145-18	813 77M	MLR	61 21.1S	56 01.2W S	VLCN07MV
0448	10/ 3/81			ONBG E	145-18	813 77M	MLR	61 20.8S	56 03.8W S	VLCN07MV
0450	10/ 3/81			ONBG B	145-19	718 77M	MLR	61 20.7S	56 04.2W S	VLCN07MV
0503	10/ 3/81			ONBG E	145-19	718 77M	MLR	61 20.6S	56 06.3W S	VLCN07MV
0507	10/ 3/81			ONBG B	145-20	738 77M	MLR	61 20.5S	56 07.0W S	VLCN07MV
0520	10/ 3/81			ONBG E	145-20	738 77M	MLR	61 20.4S	56 09.1W S	VLCN07MV
2340	10/ 3/81			ONBG B	146A-1	563 77M	MLR	63 09.4S	59 07.7W S	VLCN07MV
2350	10/ 3/81			ONBG E	146A-1	563 77M	MLR	63 09.9S	59 07.2W S	VLCN07MV
2350	10/ 3/81			ONBG B	146A-2	420 77M	MLR	63 09.9S	59 07.2W S	VLCN07MV
0003	11/ 3/81			ONBG E	146A-2	420 77M	MLR	63 10.5S	59 06.0W S	VLCN07MV
0006	11/ 3/81			ONBG B	146A-3	434 77M	MLR	63 10.7S	59 05.6W S	VLCN07MV
0015	11/ 3/81			ONBG E	146A-3	434 77M	MLR	63 11.2S	59 04.6W S	VLCN07MV
0019	11/ 3/81			ONBG B	146A-4	548 77M	MLR	63 11.4S	59 04.1W S	VLCN07MV
0029	11/ 3/81			ONBG E	146A-4	548 77M	MLR	63 12.2S	59 03.5W S	VLCN07MV
0033	11/ 3/81			ONBG B	146A-5	550 77M	MLR	63 12.5S	59 03.3W S	VLCN07MV
0043	11/ 3/81			ONBG E	146A-5	550 77M	MLR	63 13.3S	59 02.9W S	VLCN07MV
0046	11/ 3/81			ONBG B	146A-6	468 77M	MLR	63 13.5S	59 02.8W S	VLCN07MV
0057	11/ 3/81			ONBG E	146A-6	468 77M	MLR	63 14.2S	59 02.4W S	VLCN07MV
0144	11/ 3/81			ONBG B	146A-7	537 77M	MLR	63 14.5S	59 03.2W S	VLCN07MV
0153	11/ 3/81			ONBG E	146A-7	537 77M	MLR	63 14.5S	59 04.6W S	VLCN07MV
0157	11/ 3/81			ONBG B	146A-8	505 77M	MLR	63 14.5S	59 05.3W S	VLCN07MV
0206	11/ 3/81			ONBG E	146A-8	505 77M	MLR	63 14.5S	59 06.6W S	VLCN07MV
0213	11/ 3/81			ONBG B	146A-9	377 77M	MLR	63 14.4S	59 07.7W S	VLCN07MV
0223	11/ 3/81			ONBG E	146A-9	377 77M	MLR	63 14.5S	59 09.2W S	VLCN07MV
0227	11/ 3/81			ONBG B	146A-10	591 77M	MLR	63 14.5S	59 09.8W S	VLCN07MV
0237	11/ 3/81			ONBG E	146A-10	591 77M	MLR	63 14.6S	59 11.6W S	VLCN07MV
0240	11/ 3/81			ONBG B	146A-11	405 77M	MLR	63 14.6S	59 12.1W S	VLCN07MV
0250	11/ 3/81			ONBG E	146A-11	405 77M	MLR	63 14.7S	59 13.9W S	VLCN07MV

GMT TIME	D /M /Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.		CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
1508	11/ 3/81			ONBG B	147-1	1196 129M	MLR	63 02.8S	60 06.4W S	VLCN07MV
1525	11/ 3/81			ONBG E	147-1	1196 129M	MLR	63 02.5S	60 07.9W S	VLCN07MV
1528	11/ 3/81			ONBG B	147-2	1224 129M	MLR	63 02.5S	60 08.4W S	VLCN07MV
1540	11/ 3/81			ONBG E	147-2	1224 129M	MLR	63 02.2S	60 10.1W S	VLCN07MV
1546	11/ 3/81			ONBG B	147-3	813 129M	MLR	63 02.1S	60 11.1W S	VLCN07MV
1600	11/ 3/81			ONBG E	147-3	813 129M	MLR	63 01.8S	60 13.9W S	VLCN07MV
1604	11/ 3/81			ONBG B	147-4	813 129M	MLR	63 01.7S	60 14.7W S	VLCN07MV
1617	11/ 3/81			ONBG E	147-4	813 129M	MLR	63 01.5S	60 17.3W S	VLCN07MV
1620	11/ 3/81			ONBG B	147-5	1239 129M	MLR	63 01.4S	60 17.9W S	VLCN07MV
1633	11/ 3/81			ONBG E	147-5	1239 129M	MLR	63 01.1S	60 20.5W S	VLCN07MV
1636	11/ 3/81			ONBG B	147-6	832 129M	MLR	63 01.1S	60 21.1W S	VLCN07MV
1649	11/ 3/81			ONBG E	147-6	832 129M	MLR	63 00.8S	60 23.7W S	VLCN07MV
1655	11/ 3/81			ONBG B	147-7	1118 129M	MLR	63 00.8S	60 24.7W S	VLCN07MV
1708	11/ 3/81			ONBG E	147-7	1118 129M	MLR	63 00.6S	60 26.9W S	VLCN07MV
2008	13/ 3/81			ONBG B	149-1	865 129M	MLR	61 23.1S	56 02.7W S	VLCN07MV
2022	13/ 3/81			ONBG E	149-1	865 129M	MLR	61 23.0S	56 00.7W S	VLCN07MV
2026	13/ 3/81			ONBG B	149-2	882 129M	MLR	61 23.0S	56 00.1W S	VLCN07MV
2037	13/ 3/81			ONBG E	149-2	882 129M	MLR	61 23.0S	55 58.5W S	VLCN07MV
2045	13/ 3/81			ONBG B	149-3	725 129M	MLR	61 23.1S	55 57.3W S	VLCN07MV
2059	13/ 3/81			ONBG E	149-3	725 129M	MLR	61 23.2S	55 55.5W S	VLCN07MV
2105	13/ 3/81			ONBG B	149-4	715 129M	MLR	61 23.2S	55 54.7W S	VLCN07MV
2117	13/ 3/81			ONBG E	149-4	715 129M	MLR	61 23.3S	55 53.1W S	VLCN07MV
2250	13/ 3/81			ONBG B	149-5	611 129M	MLR	61 24.3S	55 27.0W S	VLCN07MV
2300	13/ 3/81			ONBG E	149-5	611 129M	MLR	61 24.1S	55 25.6W S	VLCN07MV
2305	13/ 3/81			ONBG B	149-6	501 129M	MLR	61 24.1S	55 25.1W S	VLCN07MV
2315	13/ 3/81			ONBG E	149-6	501 129M	MLR	61 24.0S	55 24.3W S	VLCN07MV
2318	13/ 3/81			ONBG B	149-7	610 129M	MLR	61 24.0S	55 24.0W S	VLCN07MV
2329	13/ 3/81			ONBG E	149-7	610 129M	MLR	61 24.0S	55 22.7W S	VLCN07MV
2337	13/ 3/81			ONBG B	149-8	459 129M	MLR	61 24.2S	55 21.6W S	VLCN07MV
2348	13/ 3/81			ONBG E	149-8	459 129M	MLR	61 24.4S	55 20.5W S	VLCN07MV
2353	13/ 3/81			ONBG B	149-9	619 129M	MLR	61 24.4S	55 20.0W S	VLCN07MV
0005	14/ 3/81			ONBG E	149-9	619 129M	MLR	61 24.7S	55 18.8W S	VLCN07MV
0015	14/ 3/81			ONBG B	149-10	436 129M	MLR	61 24.8S	55 17.6W S	VLCN07MV
0025	14/ 3/81			ONBG E	149-10	436 129M	MLR	61 24.9S	55 16.4W S	VLCN07MV
1654	14/ 3/81			ONBG B	149A-1	418 129M	MLR	61 02.3S	53 57.2W S	VLCN07MV
1709	14/ 3/81			ONBG E	149A-1	418 129M	MLR	61 00.8S	53 57.4W S	VLCN07MV

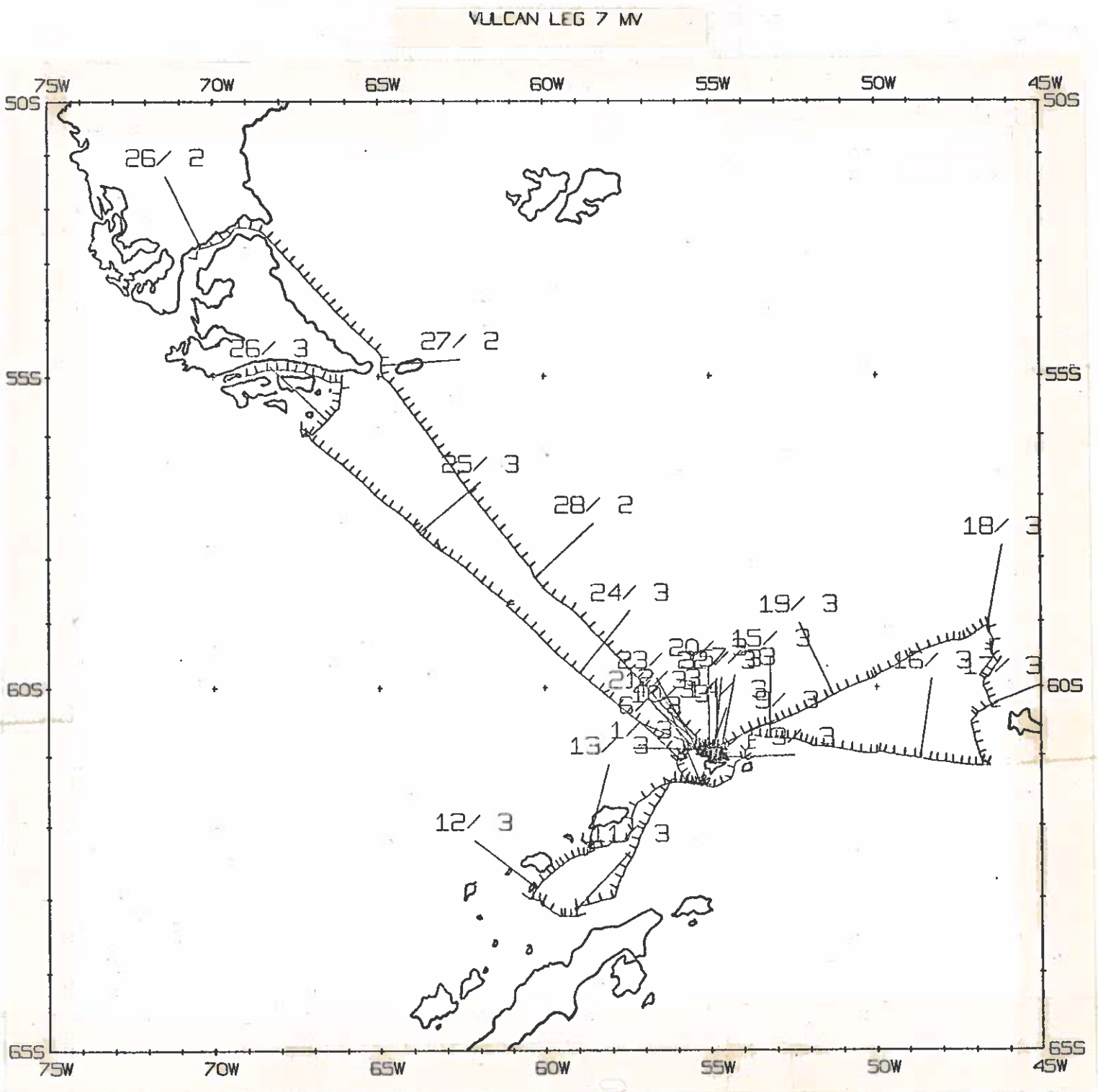
GMT TIME	D /M /Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.		CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
1715	14/ 3/81			ONBG B	149A-2	938 129M	MLR	61 00.1S	53 56.9W S	VLCN07MV
1729	14/ 3/81			ONBG E	149A-2	938 129M	MLR	60 58.7S	53 57.0W S	VLCN07MV
1734	14/ 3/81			ONBG B	149A-3	863 129M	MLR	60 58.3S	53 57.0W S	VLCN07MV
1748	14/ 3/81			ONBG E	149A-3	863 129M	MLR	60 56.9S	53 57.1W S	VLCN07MV
1905	15/ 3/81			ONBG B	150-1	966 129M	MLR	60 57.2S	49 54.0W S	VLCN07MV
1921	15/ 3/81			ONBG E	150-1	966 129M	MLR	60 57.4S	49 51.7W S	VLCN07MV
1927	15/ 3/81			ONBG B	150-2	813 129M	MLR	60 57.5S	49 50.8W S	VLCN07MV
1943	15/ 3/81			ONBG E	150-2	813 129M	MLR	60 57.7S	49 48.5W S	VLCN07MV
1947	15/ 3/81			ONBG B	150-3	918 129M	MLR	60 57.8S	49 48.0W S	VLCN07MV
2002	15/ 3/81			ONBG E	150-3	918 129M	MLR	60 58.0S	49 46.2W S	VLCN07MV
1236	16/ 3/81			ONBG B	151-1	882 129M	MLR	61 07.1S	46 43.3W S	VLCN07MV
1255	16/ 3/81			ONBG E	151-1	882 129M	MLR	61 06.8S	46 46.9W S	VLCN07MV
1258	16/ 3/81			ONBG B	151-2	895 129M	MLR	61 06.7S	46 47.6W S	VLCN07MV
1313	16/ 3/81			ONBG E	151-2	895 129M	MLR	61 05.3S	46 50.1W S	VLCN07MV
1320	16/ 3/81			ONBG B	151-3	710 129M	MLR	61 04.3S	46 50.9W S	VLCN07MV
1336	16/ 3/81			ONBG E	151-3	710 129M	MLR	61 01.9S	46 52.6W S	VLCN07MV
1845	16/ 3/81			ONBG B	151A-1	1288 129M	MLR	60 22.1S	46 56.4W S	VLCN07MV
1911	16/ 3/81			ONBG E	151A-1	1288 129M	MLR	60 23.0S	46 58.1W S	VLCN07MV
1914	16/ 3/81			ONBG B	151A-2	1515 129M	MLR	60 23.2S	46 58.3W S	VLCN07MV
1938	16/ 3/81			ONBG E	151A-2	1515 129M	MLR	60 24.3S	47 00.1W S	VLCN07MV
2358	16/ 3/81			ONBG B	152-1	591 77M	MLR	60 15.8S	46 33.7W S	VLCN07MV
0010	17/ 3/81			ONBG E	152-1	591 77M	MLR	60 14.6S	46 34.6W S	VLCN07MV
0013	17/ 3/81			ONBG B	152-2	603 77M	MLR	60 14.3S	46 34.8W S	VLCN07MV
0023	17/ 3/81			ONBG E	152-2	603 77M	MLR	60 13.2S	46 35.6W S	VLCN07MV
0027	17/ 3/81			ONBG B	152-3	513 77M	MLR	60 12.8S	46 35.9W S	VLCN07MV
0037	17/ 3/81			ONBG E	152-3	513 77M	MLR	60 11.9S	46 36.7W S	VLCN07MV
1414	17/ 3/81			ONBG B	156-1	823 129M	MLR	59 29.5S	46 29.4W S	VLCN07MV
1430	17/ 3/81			ONBG E	156-1	823 129M	MLR	59 28.6S	46 29.6W S	VLCN07MV
1438	17/ 3/81			ONBG B	156-2	446 26M	MLR	59 28.0S	46 29.7W S	VLCN07MV
1447	17/ 3/81			ONBG E	156-2	446 26M	MLR	59 27.3S	46 29.7W S	VLCN07MV
1450	17/ 3/81			ONBG B	156-3	986 129M	MLR	59 27.1S	46 29.7W S	VLCN07MV
1510	17/ 3/81			ONBG E	156-3	986 129M	MLR	59 25.7S	46 29.9W S	VLCN07MV
1514	17/ 3/81			ONBG B	156-4	1452 64M	MLR	59 25.5S	46 30.0W S	VLCN07MV
1541	17/ 3/81			ONBG E	156-4	1452 64M	MLR	59 24.2S	46 31.6W S	VLCN07MV
0040	18/ 3/81			ONBG B	159-1	435 77M	MLR	59 03.2S	46 36.1W S	VLCN07MV
0050	18/ 3/81			ONBG E	159-1	435 77M	MLR	59 03.3S	46 36.5W S	VLCN07MV

GMT TIME	D /M /Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.		CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
0057	18/ 3/81			ONBG B	159-2	656 26M	MLR	59 03.4S	46 36.9W S	VLCN07MV
0112	18/ 3/81			ONBG E	159-2	656 26M	MLR	59 03.6S	46 37.7W S	VLCN07MV
0117	18/ 3/81			ONBG B	159-3	567 77M	MLR	59 03.6S	46 38.0W S	VLCN07MV
0130	18/ 3/81			ONBG E	159-3	567 77M	MLR	59 03.8S	46 38.8W S	VLCN07MV
1147	18/ 3/81			ONBG B	159A-1	998 129M	MLR	59 30.7S	48 51.7W S	VLCN07MV
1203	18/ 3/81			ONBG E	159A-1	998 129M	MLR	59 31.3S	48 53.3W S	VLCN07MV
1212	18/ 3/81			ONBG B	159A-2	1059 129M	MLR	59 31.6S	48 54.3W S	VLCN07MV
1231	18/ 3/81			ONBG E	159A-2	1059 129M	MLR	59 32.4S	48 56.5W S	VLCN07MV
1212	18/ 3/81			ONBG B	159A-3	365 26M	MLR	59 31.6S	48 54.3W S	VLCN07MV
1231	18/ 3/81			ONBG E	159A-3	365 26M	MLR	59 32.4S	48 56.5W S	VLCN07MV
1822	18/ 3/81			ONBG B	160-1	1050 129M	MLR	59 50.2S	49 59.8W S	VLCN07MV
1841	18/ 3/81			ONBG E	160-1	1050 129M	MLR	59 51.0S	50 02.0W S	VLCN07MV
1847	18/ 3/81			ONBG B	160-2	1001 129M	MLR	59 51.3S	50 02.7W S	VLCN07MV
1907	18/ 3/81			ONBG E	160-2	1001 129M	MLR	59 52.0S	50 05.5W S	VLCN07MV
1912	18/ 3/81			ONBG B	160-3	1001 129M	MLR	59 52.1S	50 06.1W S	VLCN07MV
1927	18/ 3/81			ONBG E	160-3	1001 129M	MLR	59 52.4S	50 08.0W S	VLCN07MV
1934	18/ 3/81			ONBG B	160-4	660 26M	MLR	59 52.5S	50 08.9W S	VLCN07MV
1940	18/ 3/81			ONBG E	160-4	660 26M	MLR	59 52.7S	50 09.7W S	VLCN07MV
0057	19/ 3/81			ONBG B	160A-1	512 77M	MLR	60 09.2S	51 28.4W S	VLCN07MV
0052	19/ 3/81			ONBG E	160A-1	512 77M	MLR	60 09.1S	51 27.8W S	VLCN07MV
0057	19/ 3/81			ONBG B	160A-2	530 77M	MLR	60 09.2S	51 28.4W S	VLCN07MV
0109	19/ 3/81			ONBG E	160A-2	530 77M	MLR	60 09.7S	51 29.9W S	VLCN07MV
0112	19/ 3/81			ONBG B	160A-3	509 77M	MLR	60 09.8S	51 30.2W S	VLCN07MV
0123	19/ 3/81			ONBG E	160A-3	509 77M	MLR	60 10.2S	51 31.6W S	VLCN07MV
0943	19/ 3/81			ONBG B	160B-1	837 129M	MLR	60 32.3S	53 07.6W S	VLCN07MV
1001	19/ 3/81			ONBG E	160B-1	837 129M	MLR	60 32.8S	53 10.5W S	VLCN07MV
1006	19/ 3/81			ONBG B	160B-2	852 129M	MLR	60 32.9S	53 11.2W S	VLCN07MV
1023	19/ 3/81			ONBG E	160B-2	852 129M	MLR	60 33.4S	53 13.9W S	VLCN07MV
1026	19/ 3/81			ONBG B	160B-3	845 129M	MLR	60 33.4S	53 14.5W S	VLCN07MV
1045	19/ 3/81			ONBG E	160B-3	845 129M	MLR	60 33.7S	53 18.0W S	VLCN07MV
1223	20/ 3/81			ONBG B	160C-1	1148 129M	MLR	61 00.5S	54 48.0W S	VLCN07MV
1238	20/ 3/81			ONBG E	160C-1	1148 129M	MLR	61 01.6S	54 47.3W S	VLCN07MV
1243	20/ 3/81			ONBG B	160C-2	1057 129M	MLR	61 01.9S	54 47.1W S	VLCN07MV
1303	20/ 3/81			ONBG E	160C-2	1057 129M	MLR	61 03.4S	54 46.0W S	VLCN07MV
1312	20/ 3/81			ONBG B	160C-3	1263 129M	MLR	61 03.6S	54 45.0W S	VLCN07MV
1337	20/ 3/81			ONBG E	160C-3	1263 129M	MLR	61 02.1S	54 43.1W S	VLCN07MV

GMT TIME	D /M /Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.		CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
1340	20/ 3/81			ONBG B	160C-4	831 129M	MLR	61 01.9S	54 42.9W S	VLCN07MV
1402	20/ 3/81			ONBG E	160C-4	831 129M	MLR	61 01.0S	54 41.4W S	VLCN07MV
1421	20/ 3/81			ONBG B	160C-5	997 129M	MLR	61 00.0S	54 40.1W S	VLCN07MV
1440	20/ 3/81			ONBG E	160C-5	997 129M	MLR	60 58.6S	54 38.8W S	VLCN07MV
1443	20/ 3/81			ONBG B	160C-6	867 129M	MLR	60 58.3S	54 38.5W S	VLCN07MV
1502	20/ 3/81			ONBG E	160C-6	867 129M	MLR	60 57.6S	54 37.3W S	VLCN07MV
0200	21/ 3/81			ONBG B	161-1	480 77M	MLR	61 01.1S	55 15.8W S	VLCN07MV
0210	21/ 3/81			ONBG E	161-1	480 77M	MLR	61 00.7S	55 16.8W S	VLCN07MV
0214	21/ 3/81			ONBG B	161-2	448 77M	MLR	61 00.5S	55 16.9W S	VLCN07MV
0225	21/ 3/81			ONBG E	161-2	448 77M	MLR	60 59.9S	55 16.3W S	VLCN07MV
0230	21/ 3/81			ONBG B	161-3	878 129M	MLR	60 59.6S	55 16.1W S	VLCN07MV
0248	21/ 3/81			ONBG E	161-3	878 129M	MLR	60 58.6S	55 15.0W S	VLCN07MV
0255	21/ 3/81			ONBG B	161-4	960 129M	MLR	60 58.3S	55 14.6W S	VLCN07MV
0316	21/ 3/81			ONBG E	161-4	960 129M	MLR	60 57.3S	55 13.4W S	VLCN07MV
0855	21/ 3/81			ONBG B	161-5	873 102M	MLR	61 01.0S	55 13.4W S	VLCN07MV
0912	21/ 3/81			ONBG E	161-5	873 102M	MLR	61 00.4S	55 13.2W S	VLCN07MV
0919	21/ 3/81			ONBG B	161-6	957 132M	MLR	60 60.0S	55 13.1W S	VLCN07MV
0946	21/ 3/81			ONBG E	161-6	957 132M	MLR	60 58.1S	55 12.5W S	VLCN07MV
0951	21/ 3/81			ONBG B	161-7	1166 132M	MLR	60 57.7S	55 12.4W S	VLCN07MV
1015	21/ 3/81			ONBG E	161-7	1166 132M	MLR	60 56.1S	55 12.1W S	VLCN07MV
1019	21/ 3/81			ONBG B	161-8	1070 132M	MLR	60 55.8S	55 12.0W S	VLCN07MV
1043	21/ 3/81			ONBG E	161-8	1070 132M	MLR	60 54.2S	55 11.7W S	VLCN07MV
0008	22/ 3/81			ONBG B	162-1	801 129M	MLR	61 03.4S	54 46.7W S	VLCN07MV
0025	22/ 3/81			ONBG E	162-1	801 129M	MLR	61 02.5S	54 47.9W S	VLCN07MV
0030	22/ 3/81			ONBG B	162-2	801 129M	MLR	61 02.2S	54 48.4W S	VLCN07MV
0049	22/ 3/81			ONBG E	162-2	801 129M	MLR	61 02.8S	54 50.3W S	VLCN07MV
0053	22/ 3/81			ONBG B	162-3	872 129M	MLR	61 02.9S	54 50.7W S	VLCN07MV
0112	22/ 3/81			ONBG E	162-3	872 129M	MLR	61 03.4S	54 52.6W S	VLCN07MV
0116	22/ 3/81			ONBG B	162-4	1013 129M	MLR	61 03.3S	54 53.1W S	VLCN07MV
0135	22/ 3/81			ONBG E	162-4	1013 129M	MLR	61 02.8S	54 55.7W S	VLCN07MV
0202	22/ 3/81			ONBG B	162-5	1106 129M	MLR	61 02.5S	54 57.8W S	VLCN07MV
0225	22/ 3/81			ONBG E	162-5	1106 129M	MLR	61 02.2S	55 00.6W S	VLCN07MV
0230	22/ 3/81			ONBG B	162-6	445 6M	MLR	61 02.2S	55 01.3W S	VLCN07MV
0239	22/ 3/81			ONBG E	162-6	445 6M	MLR	61 02.0S	55 02.5W S	VLCN07MV
0245	22/ 3/81			ONBG B	162-7	1326 129M	MLR	61 02.0S	55 03.3W S	VLCN07MV
0304	22/ 3/81			ONBG E	162-7	1326 129M	MLR	61 01.7S	55 06.0W S	VLCN07MV

GMT TIME	D /M /Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.		CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
0431	22/ 3/81			ONBG B	162-8	1124 39M	MLR	61 01.7S	55 08.2W S	VLCN07MV
0447	22/ 3/81			ONBG E	162-8	1124 39M	MLR	61 01.1S	55 08.0W S	VLCN07MV
0451	22/ 3/81			ONBG B	162-9	1571 77M	MLR	61 00.8S	55 08.0W S	VLCN07MV
0521	22/ 3/81			ONBG E	162-9	1571 77M	MLR	60 59.6S	55 10.4W S	VLCN07MV
0527	22/ 3/81			ONBG B	162-10	319 13M	MLR	60 59.6S	55 10.9W S	VLCN07MV
0535	22/ 3/81			ONBG E	162-10	319 13M	MLR	60 59.9S	55 11.6W S	VLCN07MV
0755	22/ 3/81			ONBG B	162-11	1319 129M	MLR	61 00.4S	55 12.4W S	VLCN07MV
0814	22/ 3/81			ONBG E	162-11	1319 129M	MLR	61 00.5S	55 13.8W S	VLCN07MV
0821	22/ 3/81			ONBG B	162-12	711 129M	MLR	61 00.5S	55 14.7W S	VLCN07MV
0838	22/ 3/81			ONBG E	162-12	711 129M	MLR	60 59.5S	55 14.3W S	VLCN07MV
0847	22/ 3/81			ONBG B	162-13	1005 129M	MLR	60 58.9S	55 14.1W S	VLCN07MV
0904	22/ 3/81			ONBG E	162-13	1005 129M	MLR	60 57.7S	55 13.5W S	VLCN07MV
0912	22/ 3/81			ONBG B	162-14	812 129M	MLR	60 57.3S	55 12.9W S	VLCN07MV
0930	22/ 3/81			ONBG E	162-14	812 129M	MLR	60 56.1S	55 11.7W S	VLCN07MV
0934	22/ 3/81			ONBG B	162-15	971 129M	MLR	60 55.9S	55 11.5W S	VLCN07MV
0952	22/ 3/81			ONBG E	162-15	971 129M	MLR	60 54.7S	55 10.5W S	VLCN07MV
0957	22/ 3/81			ONBG B	162-16	904 129M	MLR	60 54.4S	55 10.5W S	VLCN07MV
1016	22/ 3/81			ONBG E	162-16	904 129M	MLR	60 53.2S	55 10.8W S	VLCN07MV
1019	22/ 3/81			ONBG B	162-17	905 129M	MLR	60 53.0S	55 10.9W S	VLCN07MV
1037	22/ 3/81			ONBG E	162-17	905 129M	MLR	60 51.8S	55 11.4W S	VLCN07MV
1041	22/ 3/81			ONBG B	162-18	914 129M	MLR	60 51.8S	55 11.8W S	VLCN07MV
1100	22/ 3/81			ONBG E	162-18	914 129M	MLR	60 51.9S	55 14.2W S	VLCN07MV
1103	22/ 3/81			ONBG B	162-19	830 129M	MLR	60 51.9S	55 14.6W S	VLCN07MV
1124	22/ 3/81			ONBG E	162-19	830 129M	MLR	60 51.9S	55 17.3W S	VLCN07MV
1129	22/ 3/81			ONBG B	162-20	919 129M	MLR	60 51.9S	55 17.9W S	VLCN07MV
1151	22/ 3/81			ONBG E	162-20	919 129M	MLR	60 51.9S	55 20.5W S	VLCN07MV
2349	22/ 3/81			ONBG B	163-1	1687 129M	MLR	60 53.4S	55 26.7W S	VLCN07MV
0027	23/ 3/81			ONBG E	163-1	1687 129M	MLR	60 54.7S	55 31.0W S	VLCN07MV
0032	23/ 3/81			ONBG B	163-2	351 13M	MLR	60 54.8S	55 31.6W S	VLCN07MV
0041	23/ 3/81			ONBG E	163-2	351 13M	MLR	60 55.2S	55 32.7W S	VLCN07MV
0051	23/ 3/81			ONBG B	163-3	1131 96M	MLR	60 55.2S	55 34.0W S	VLCN07MV
0117	23/ 3/81			ONBG E	163-3	1131 96M	MLR	60 55.3S	55 37.1W S	VLCN07MV
0121	23/ 3/81			ONBG B	163-4	732 77M	MLR	60 55.3S	55 37.5W S	VLCN07MV
0137	23/ 3/81			ONBG E	163-4	732 77M	MLR	60 55.3S	55 39.4W S	VLCN07MV
0141	23/ 3/81			ONBG B	163-5	1718 129M	MLR	60 55.3S	55 39.9W S	VLCN07MV
0205	23/ 3/81			ONBG E	163-5	1718 129M	MLR	60 55.3S	55 43.3W S	VLCN07MV

GMT TIME	D /M /Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.		CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
0210	23/ 3/81			ONBG B	163-6	895 129M	MLR	60 55.4S	55 44.0W S	VLCN07MV
0230	23/ 3/81			ONBG E	163-6	895 129M	MLR	60 55.4S	55 46.8W S	VLCN07MV
0330	23/ 3/81			ONBG B	163-7	1324 129M	MLR	60 55.7S	55 47.8W S	VLCN07MV
0350	23/ 3/81			ONBG E	163-7	1324 129M	MLR	60 55.9S	55 50.8W S	VLCN07MV
0358	23/ 3/81			ONBG B	163-8	1202 129M	MLR	60 56.0S	55 52.1W S	VLCN07MV
0422	23/ 3/81			ONBG E	163-8	1202 129M	MLR	60 57.3S	55 52.0W S	VLCN07MV
0428	23/ 3/81			ONBG B	163-9	1329 129M	MLR	60 57.6S	55 51.3W S	VLCN07MV
0450	23/ 3/81			ONBG E	163-9	1329 129M	MLR	60 59.1S	55 48.1W S	VLCN07MV
0458	23/ 3/81			ONBG B	163-10	1052 129M	MLR	60 59.7S	55 46.9W S	VLCN07MV
0519	23/ 3/81			ONBG E	163-10	1052 129M	MLR	60 59.6S	55 47.5W S	VLCN07MV
0553	23/ 3/81			ONBG B	163-11	1906 129M	MLR	61 00.3S	55 46.4W S	VLCN07MV
0617	23/ 3/81			ONBG E	163-11	1906 129M	MLR	61 01.1S	55 44.4W S	VLCN07MV
0620	23/ 3/81			ONBG B	163-12	936 129M	MLR	61 01.2S	55 44.0W S	VLCN07MV
0640	23/ 3/81			ONBG E	163-12	936 129M	MLR	61 01.9S	55 43.8W S	VLCN07MV
0645	23/ 3/81			ONBG B	163-13	966 129M	MLR	61 02.1S	55 44.4W S	VLCN07MV
0707	23/ 3/81			ONBG E	163-13	966 129M	MLR	61 02.9S	55 47.0W S	VLCN07MV
0710	23/ 3/81			ONBG B	163-14	775 129M	MLR	61 02.9S	55 47.3W S	VLCN07MV
0727	23/ 3/81			ONBG E	163-14	775 129M	MLR	61 03.3S	55 49.1W S	VLCN07MV
0731	23/ 3/81			ONBG B	163-15	809 129M	MLR	61 03.4S	55 49.6W S	VLCN07MV
0750	23/ 3/81			ONBG E	163-15	809 129M	MLR	61 03.8S	55 51.6W S	VLCN07MV
0755	23/ 3/81			ONBG B	163-16	1298 129M	MLR	61 03.9S	55 52.2W S	VLCN07MV
0825	23/ 3/81			ONBG E	163-16	1298 129M	MLR	61 04.5S	55 55.6W S	VLCN07MV
0829	23/ 3/81			ONBG B	163-17	621 129M	MLR	61 04.6S	55 56.2W S	VLCN07MV
0845	23/ 3/81			ONBG E	163-17	621 129M	MLR	61 05.0S	55 57.1W S	VLCN07MV
0847	23/ 3/81			ONBG B	163-18	579 96M	MLR	61 05.0S	55 56.7W S	VLCN07MV
0900	23/ 3/81			ONBG E	163-18	579 96M	MLR	61 04.9S	55 54.5W S	VLCN07MV
99	/ /	000			END SAMPLE INDEX			00 00.	00 00.	VLCN07MV



VULCAN EXPEDITION
LEG 7

Chief Scientist: O. Holm-Hansen (SIO)
Ports: Punta Arenas - Valparaiso, Chile
Dates: 25 February - 3 April, 1981
Ship: R/V Melville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED
1) Cruise - 3567 miles
2) Bathymetry - none collected
3) Magnetics - none collected
4) Seismic Reflection - none collected
5) Gravity - none collected