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Appendix Table 8 Results of X-ray Diffraction Analysis (2)

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Appendix Table 9 Sea-water Sound Velocity for MBES

17°37.6'S, 16	9° 40. 6' E(CTD02)	18° 42. 3′ S, 16	9° 36. 2' E(CTDO3)	19°03.3′S, 16	9°56.0'E (GCO4)
Water depth (m)	Sound velocity (m/sec)	Water depth (m)	Sound velocity (m/sec)	Water depth (m)	Sound velocity (m/sec)
10.0	1, 532. 1	10.0	1,531.8	10.0	1,531.8
20.0	1, 532. 2	20.0	1,531.9	20.0	1,531.9
50.0	1,529.9	50.0	1,531.8	50.0	1,531.8
101.0	1,528.7	100.0	1,530.7	100.0	1, 530. 7
150.0	1,526.7	150.0	1,529.8	150.0	1, 529. 8
170.0	1, 525. 9	170.0	1,529.1	170.0	1, 529. 1
200.0	1, 525. 1	200.0	1,527.2	200.0	1,527.2
250.0	1,521.0	250.0	1, 524. 2	250.0	1, 524. 2
300.0	1,515.9	300.0	1,521.9	300.0	1,521.9
400.0	1,506.7	401.0	1,511.3	401.0	1,511.3
500.0	1, 495. 6	500.0	1,497.9	500.0	1,497.9
600.0	1, 487. 8	601.0	1,491.5	601.0	1,491.5
700.0	1, 484. 8	700.0	1,487.1	700.0	1, 487. 1
800.0	1,483.5	800.0	1, 484. 8	800.0	1,484.8
900.0	1,482.6	900.0	1,484.4	1.000.0	1,483.5
1,000.0	1,482.6	1,000.0	1, 483. 5	1,200.0	1, 483. 7
1, 200. 0	1,483.2	1,200.0	1,483.7	1,500.0	1,486.4
1,500.0	1, 485. 7	1,500.0	1, 486. 4	2,000.0	1,491.9
2,000.0	1,491.2	2,000.0	1,491.9	2,500.0	1, 500. 3
2,093.0	1, 492. 7	2,418.0	1,498.8	3,072.0	1,510.2

Appendix Table 10 Weather and Sea-state Data

Monthly Frequency Distribution of Wind Direction in 1994

W. D Month	C A L M	Ŋ	N N E	N E	E N E	Е	E S E	S E	8 8 8	s	S S W	S W	W S W	w	W N W	N W	N N W	Total
August %							32 28. 67	86 71.67	2 1.67									120 100
September %	2 0. 32	11 1.76	14 2, 24	10 1. 60	35 5. 60	57 9. 12	127 20, 32	241 38.56	103 16, 48	11 1.76	10 1. 60					2 0. 32	2 0. 32	625 100
October %	26 7. 74	4 1. 19	11 3. 27	8 2, 38	8 L 79	19 5. 65	67 19. 94	126 37. 50	45 13. 39	5 1.49	10 2. 98	6 1, 79	l 0.30				2 0.60	336 100

Monthly Frequency Distribution of Wind Velocity in 1994

(W. Y. : m/sec)

W. V Nonth	C A L M	ļ	2	3	4	5	6	7	8	9	10	11'	12	13	14	15	16	Total
August %							1 0.83	3 2. 50	12 10.00	34 28. 33	26 21,67	19 15. 8 3	11 9. 17	8 6.67	5 4. 17		1 0.83	120 100
September %	2 0.32	3 0.48	26 4. 16	35 5. 60	43 6. 88	34 5. 44	48 7. 68	72 11.52	87 13. 92	94 15. 04	89 14. 24	53 8. 48	29 4. 64	6 0.96	4 0. 64			625 100
October %	26 7.74	22 6.55	28 8. 33	22 6. 55	33 9. 82	29 8, 63	28 8. 33	33 9. 82	47 13. 99	26 7,74	28 8. 33	12 3. 57	2 0, 60					336 100

Monthly Frequency Distribution of Weather in 1994

Weater	Fine	Cloudy	Rain	Total	Light rain
%	4 80. 00	t 20. 00		5 100	2 40. 00
%	20 74. 07	7 25. 93		27 100	6 22.22
%	l4 100. 00			14 100	. :

Monthly Frequency Distribution of Atomospheric Pressure (daily average) in 1994

(AP:hPa)

A.P Month	1010. 0 { 1010. 9	\$ 1012.0 \$ 1012.9	5	· \$		- \$	5	5	5.	1020. 0 \$ 1020. 9	1021.0 \$ 1021.9	5		Tptal
August %			3 2.50	18 15. 00	25 20. 83	39 32.50	17 14. 17	13 : 10. 83	5 4.17					120 100
September %			5 0, 80	36 5. 76	. 55 8.80	141 22. 56	155 24. 80	119 19. 04	60 9. 60	36 5. 70	15 2. 40	3 0.48		625 100
October %			8 2.38	23 6.85	75 22.32	84 25, 00	81 24. 11	40 11.90	25 7. 14				uer di	336 100

Monthly Frequency Distribution of Swell Height in 1994

S. D Montii	N	N N E	N E	E N E	E	E S E	S E	S S E	S	S S W	S W	W S W	w	W N W	N W	N N W	Not Clear	Total
August %						11 9. 17	49 40. 83										60 50, 00	120 100
September %		5 0. 80	9 1. 44	14 2. 24	6 0.96	73 11. 68	80 12. 80	86 13. 76	30 4. 80	2 0. 32	2 0, 32						318 50. 88	625 100
October %		1 0. 30	3 0. 89	13 3.87	9 2.68	47 13. 99	63 18. 75	37 11.01									1633 48. 51	336 100

Monthly Frequency Distribution of Swell Direction in 1994

(S. C : sec)

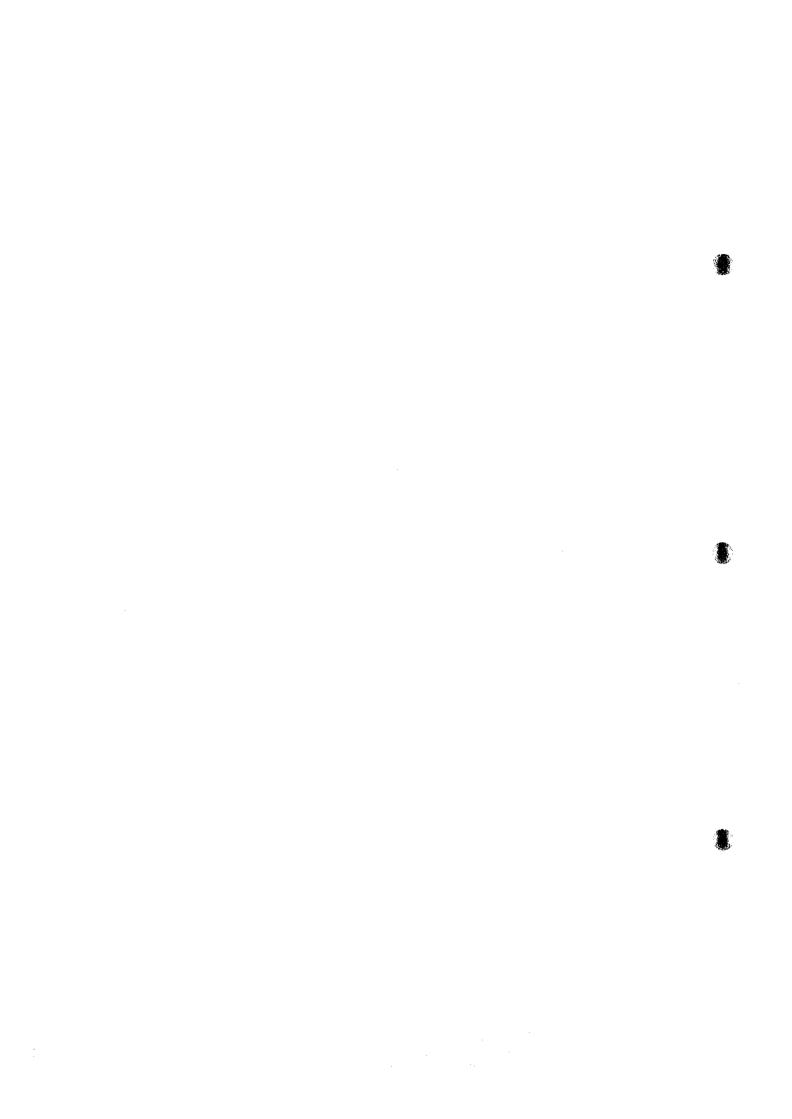
S. D Month	2	3	4	5	6	7	8	9	10	11	Not Clear	Tptal
August %						33 27. 50	27 22. 50				60 50. 00	120 100
September %				34 5. 44	29 4.64	106 16, 96	116 18, 56	11 1.76	11 1.76		318 50. 88	625 100
October %				54 16. 07	87 25. 89	17 5. 06	15 4. 46				163 48, 51	336 100

Monthly Frequency Distribution of Swell Cycle in 1994

S. H Month	0	l	2	3	4	5	6	7	8	Not Clear	Tptal
August %				44 36. 67	16 13. 33					60 50.00	120 100
September %	2 0. 32	63 10. 08	98 15. 68	112 17. 92	29 4. 64	3 0. 48				318 50. 88	625 100
October %		71 21. 13	66 19. 64	38 10.71						163 48. 51	336 100

Monthly Frequency Distribution of Degree of Cloudiness in 1994

D. C Month	ì	2	3	4	5	6	7	8	9	Not Clear	Total
August %		2 1.67	26 21.67	32 26. 67	25 20. 83	8 8, 67	15 12, 50	12 10.00			120 100
September %		24 3. 84	133 21. 28	114 18. 24	154 24. 64	54 8. 64	81 12. 96	65 10. 40			625 100
October %		33 9. 82	168 50.00	85 25. 30	28 7. 74	14 4. 17	8 2.38	2 0.60			336 100



[List of Annexed Figures]

Annexed Figure 1 Bathymetric Map

Annexed Figure 2 Sampling Station of Ore Deposit Investigation (1) \sim (4)

Annexed Figure 3 Schematic Drawing of Sampling Results Obtained from

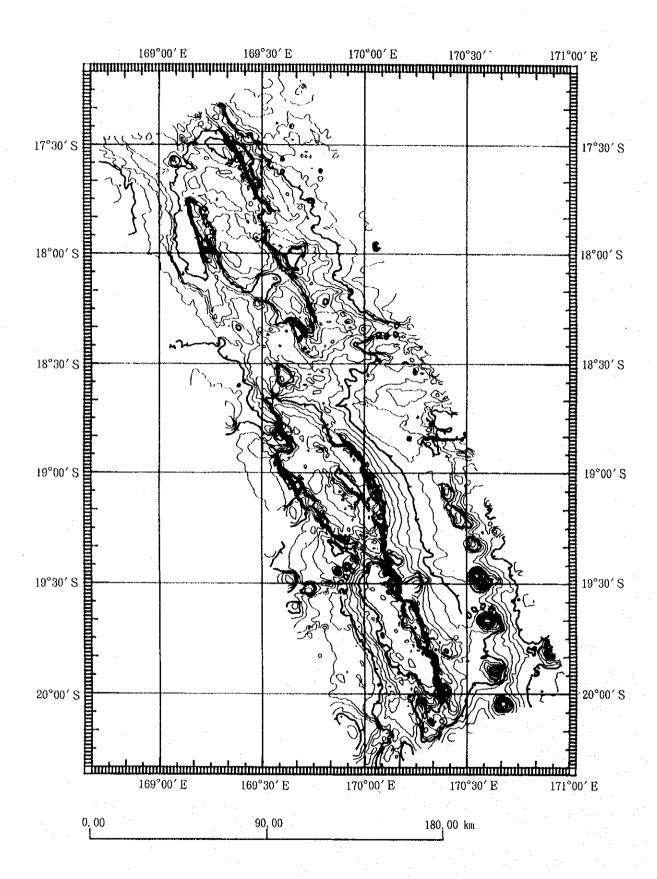
Ore Deposit Investigation (1) \sim (3)

Annexed Figure 4 FDC Route Map $(1) \sim (11)$

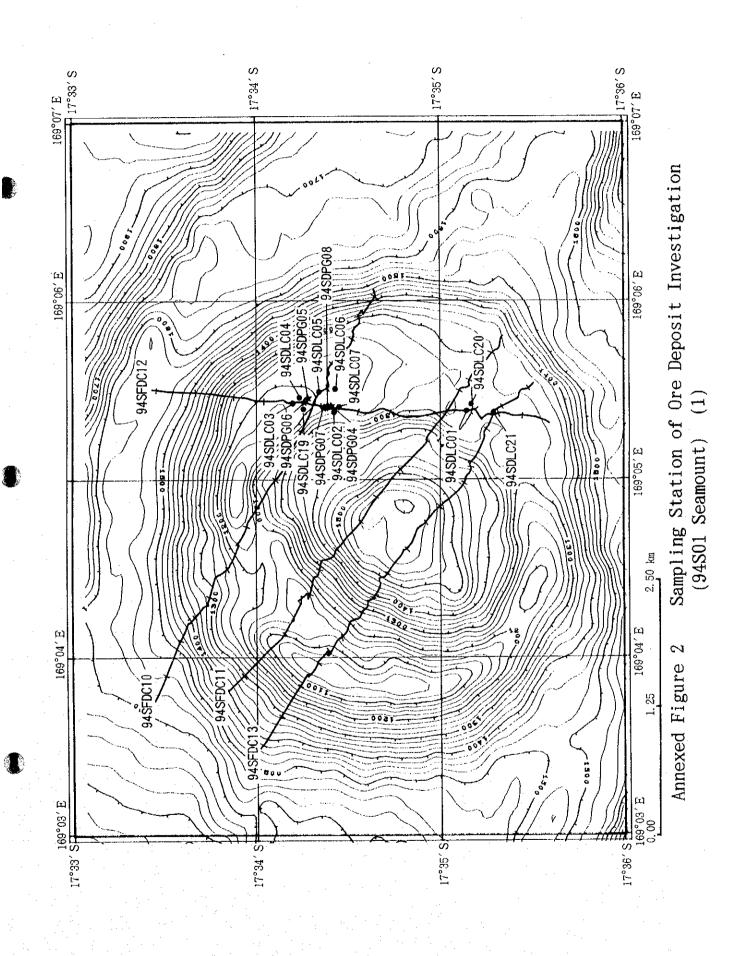
Annexed Figure 5-1 MBES Track Line Map

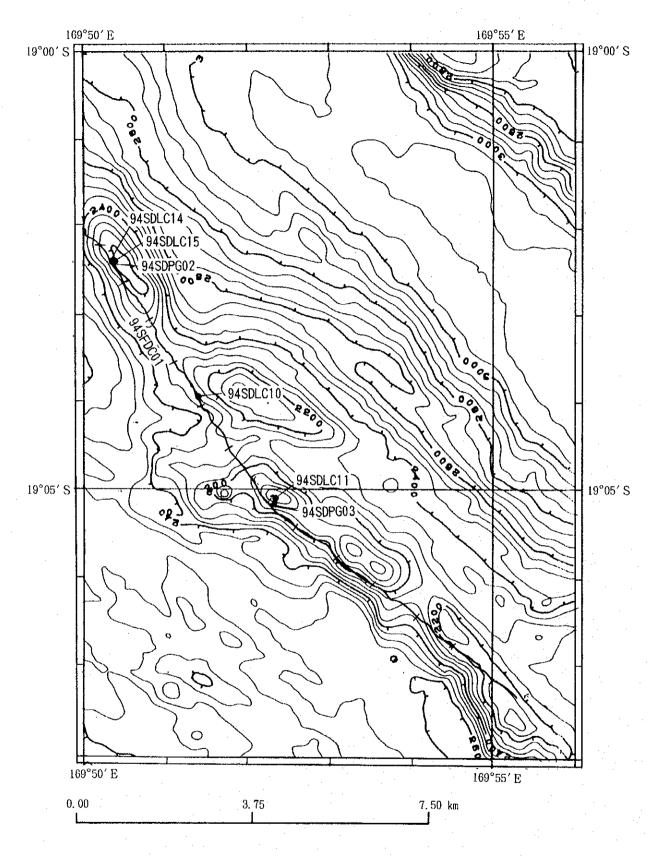
Annexed Figure 5-2 PCM Track Line Map

Annexed Figure 5-3 SSS Vehicle Position Map (1), (2)

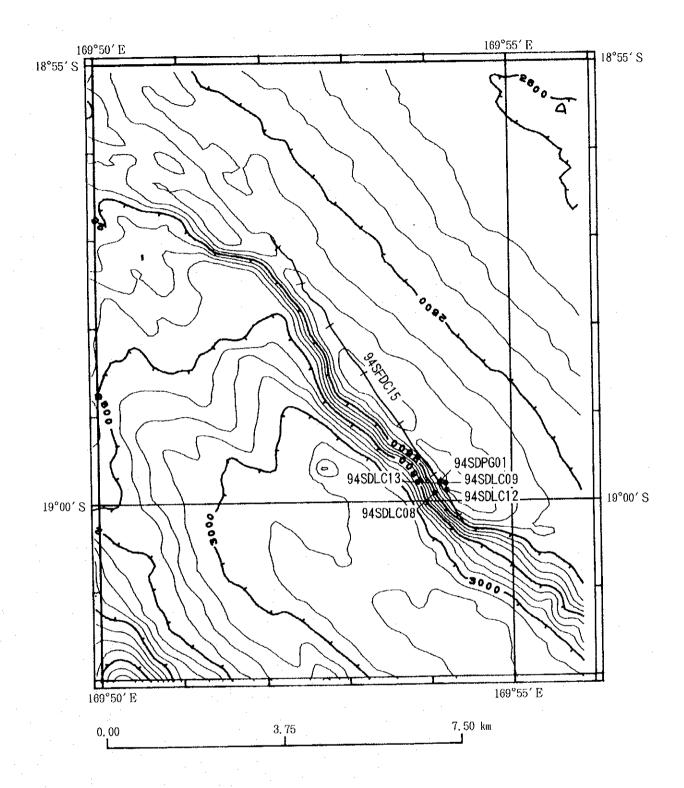


Annexed Figure 1 Bathymetric Map

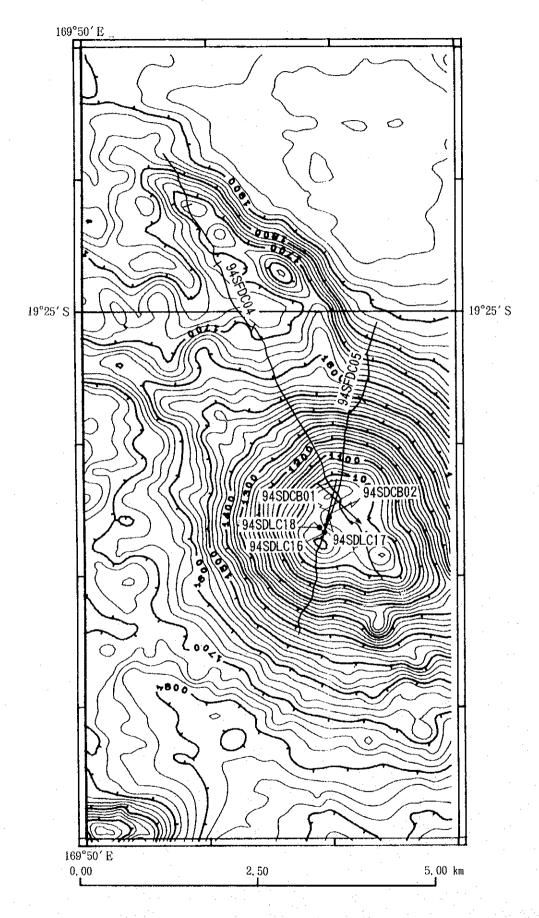




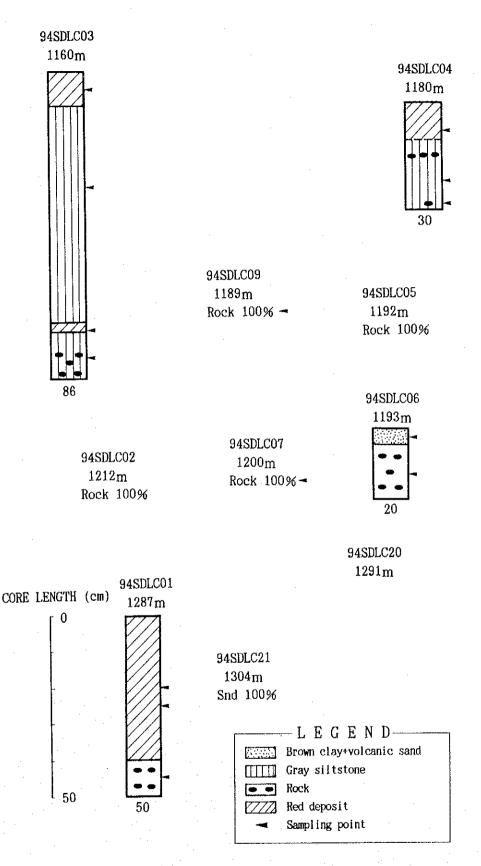
Annexed Figure 2 Sampling Station of Ore
Deposit Investigation
(Central Part of the Erromango Basin) (2)



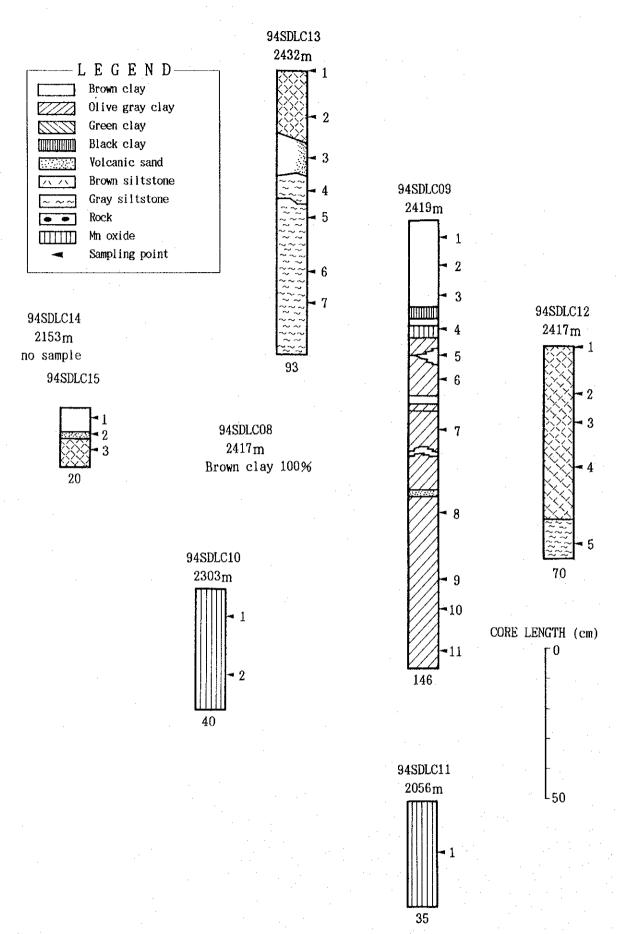
Annexed Figure 2 Sampling Station of Ore Deposit Investigation (Central Part of the Erromango Basin) (3)



Annexed Figure 2 Sampling Station of Ore Deposit Investigation (94S02 Seamount) (4)

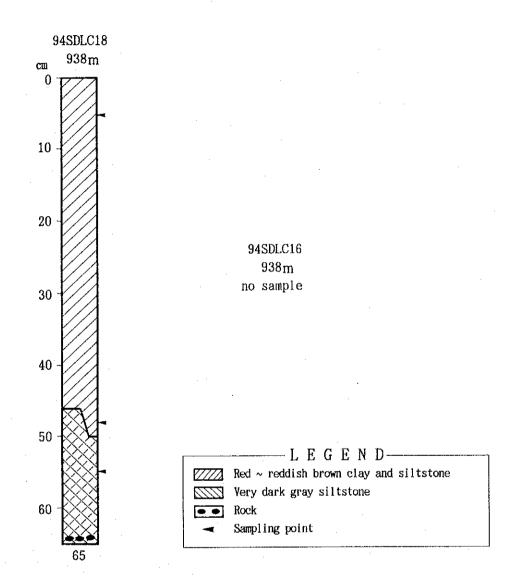


Annexed Figure 3 Schematic Drawing of Sampling Results
Obtained from Ore Deposit Investigation
(94S01 Seamount) (1)

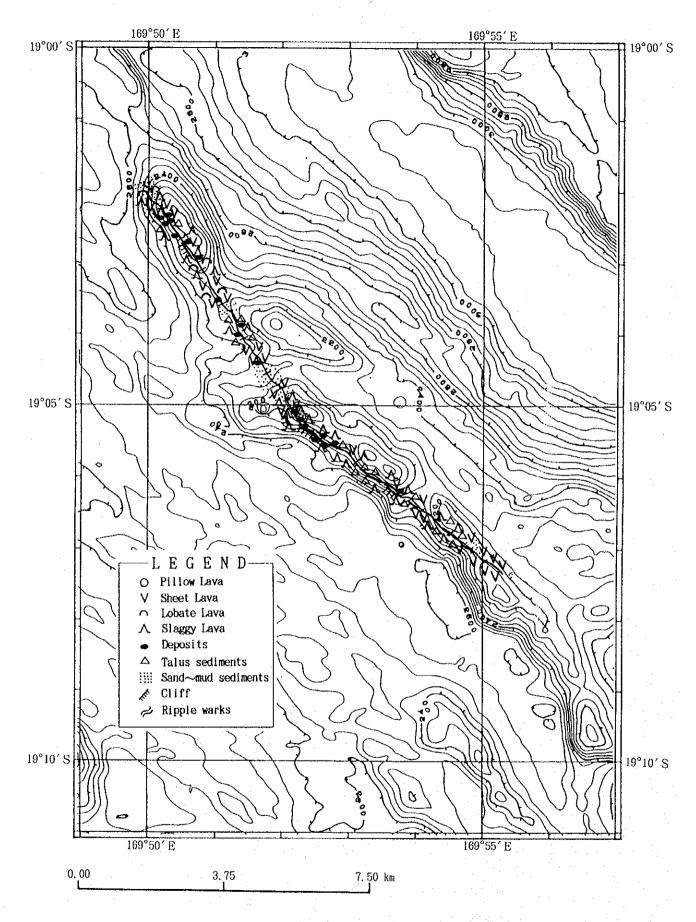


Annexed Figure 3 Schematic Drawing of Sampling Results
Obtained from Ore Deposit Investigation
(Central Part of the Erromango Basin) (2)

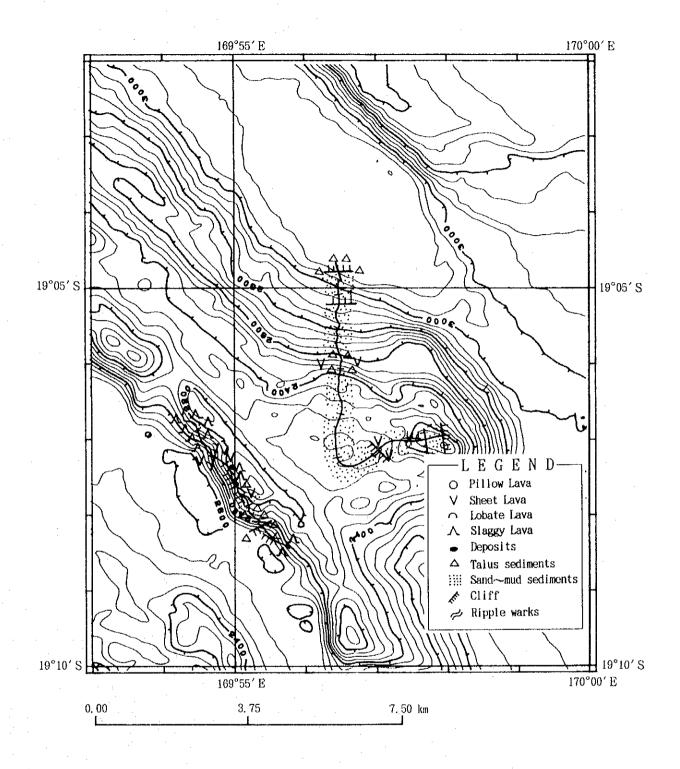
94SDLC17 980m Dark reddich brown clay 100%



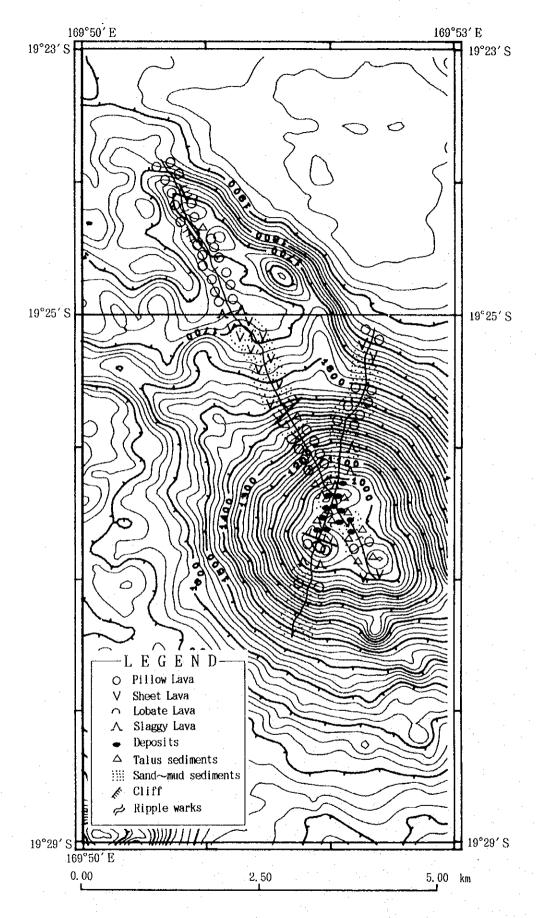
Annexed Figure 3 Schematic Drawing of Sampling Results
Obtained from Ore Deposit Investigation
(94S02 Seamount) (3)



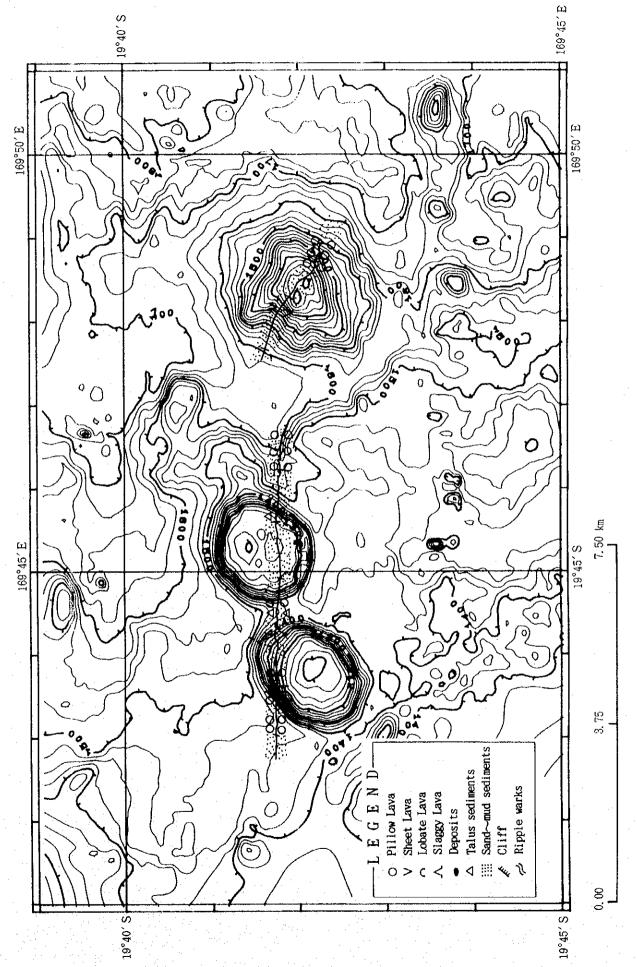
Annexed Figure 4 FDC Route Map (Line 94SFDC01) (1) (Central Part of the Erromango Basin)



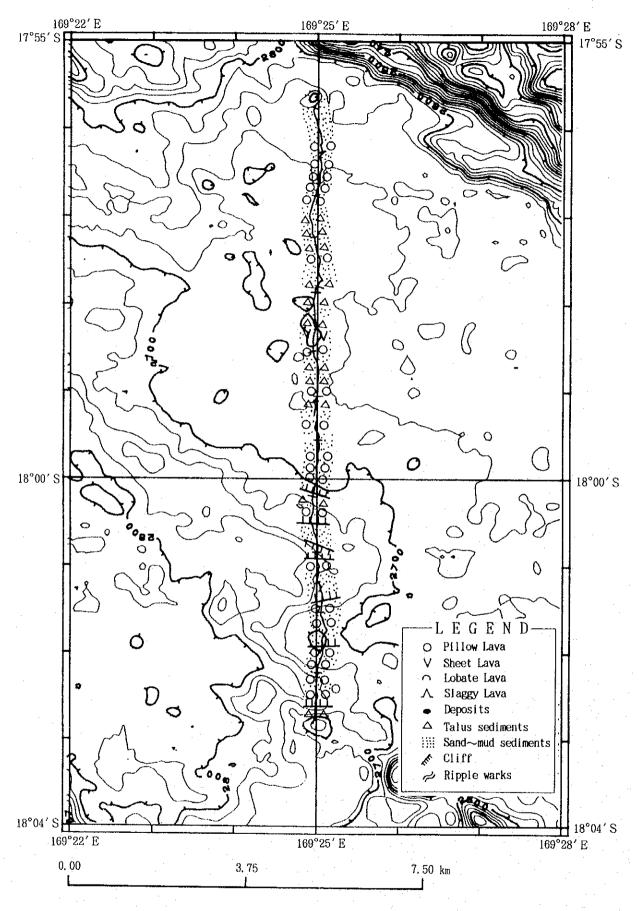
Annexed Figure 4 FDC Route Map (Line 94SFDC02 & 03) (2) (Central Part of the Erromango Basin)



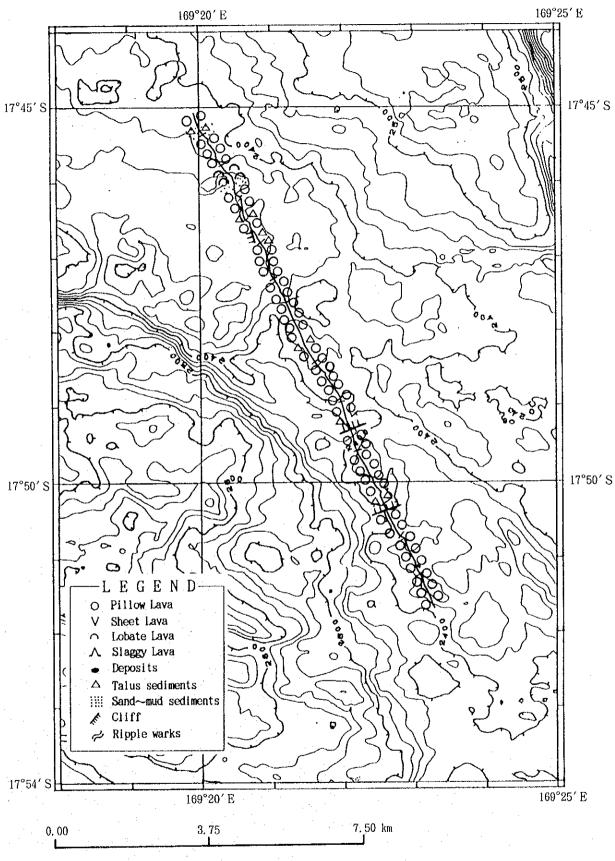
Annexed Figure 4 FDC Route Map (Line 94SFDC04 & 05) (3) (94S02 Seamount)



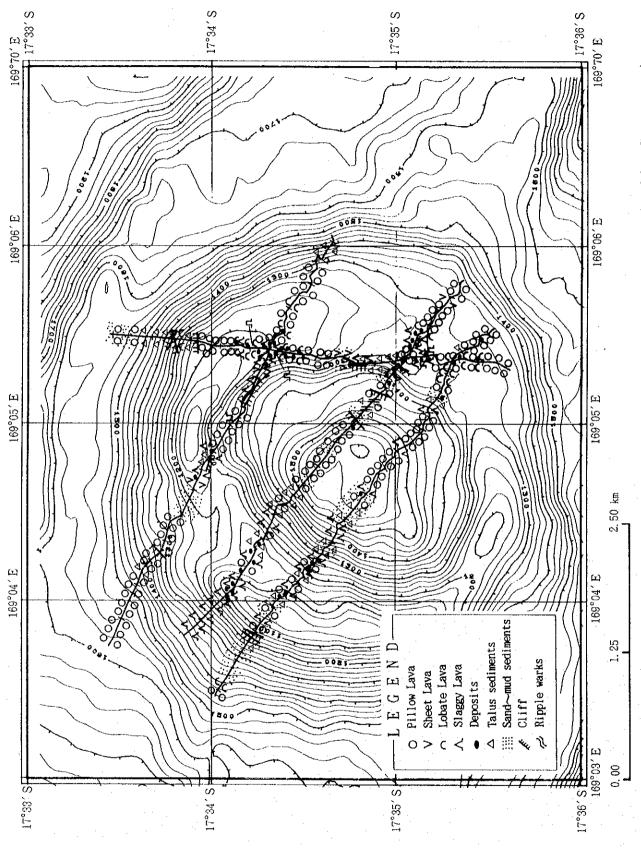
(4) (94S03 Seamount Group) FDC Route Map (Line 94SFDC06 & 07) Annexed Figure 4



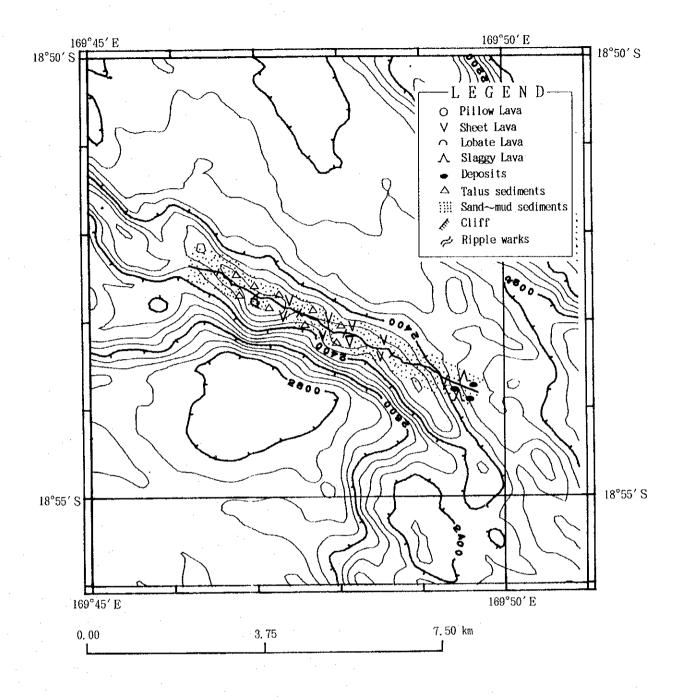
Annexed Figure 4 FDC Route Map (Line 94SFDC08) (5) (Central Part of the Vate Trough)



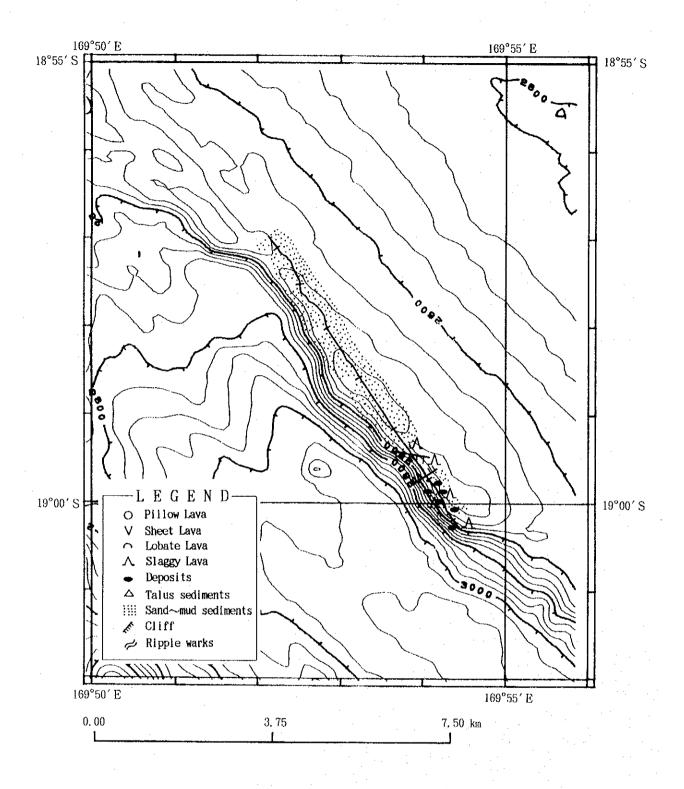
Annexed Figure 4 FDC Route Map (Line 94SFDC09) (6) (Central Part of the Vate Trough)



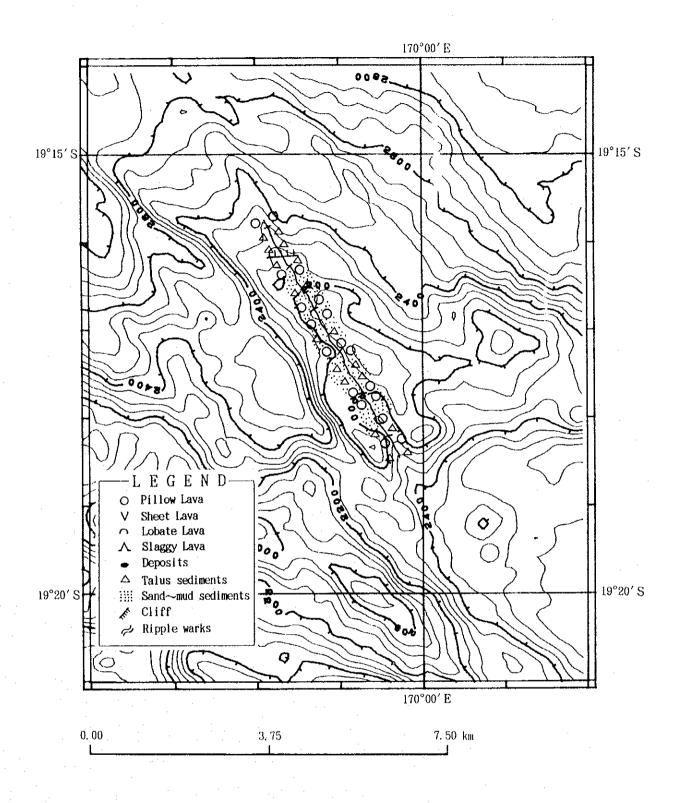
FDC Route Map (Line $94SFDC10 \sim 13$) (7) (94S01 Seamount) Annexed Figure 4



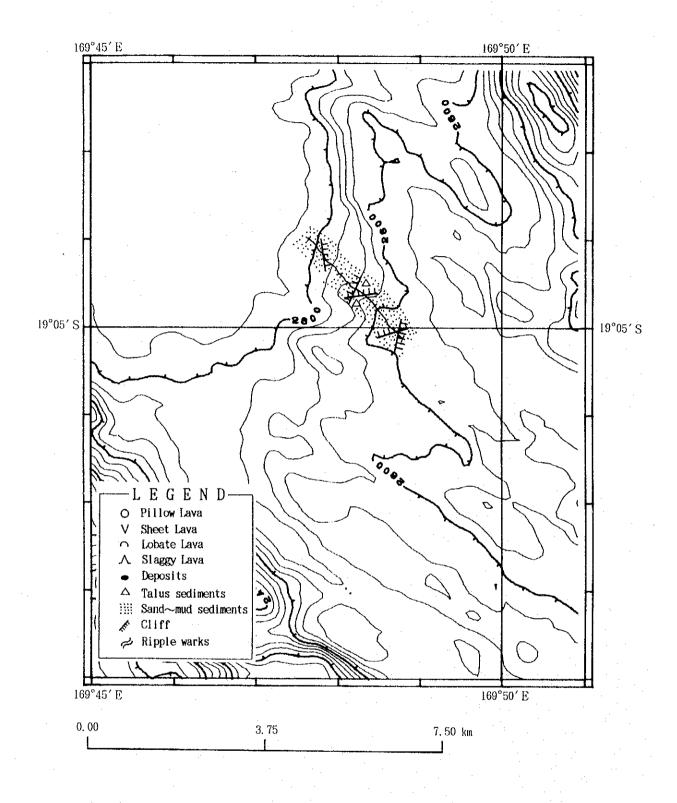
Annexed Figure 4 FDC Route Map (Line 94SFDC14) (8) (Central Part of the Erromango Basin)



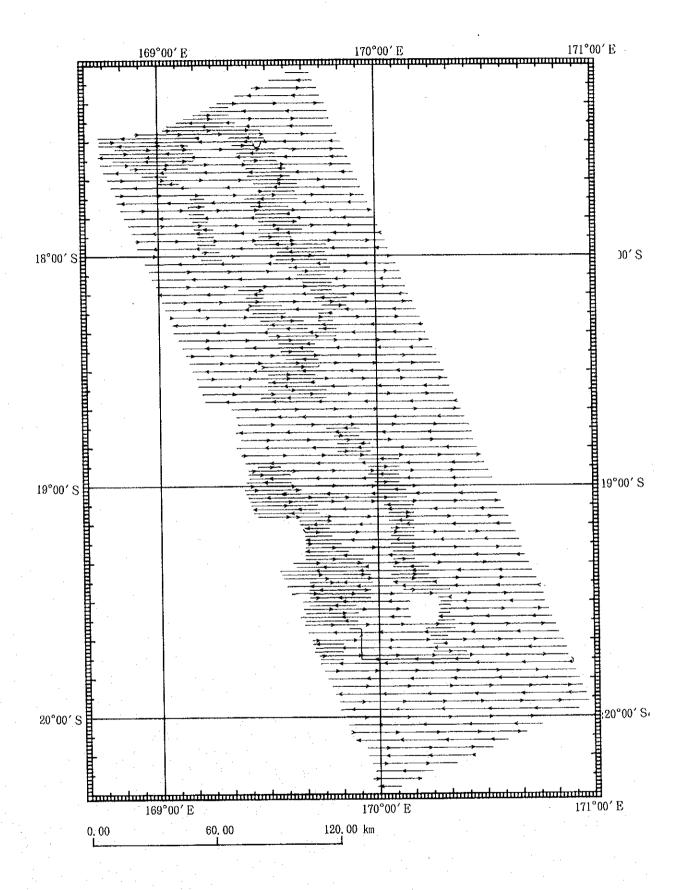
Annexed Figure 4 FDC Route Map (Line 94SFDC15) (9) (Central Part of the Erromango Basin)



Annexed Figure 4 FDC Route Map (Line 94SFDC16) (10) (Central Part of the Erromango Basin)



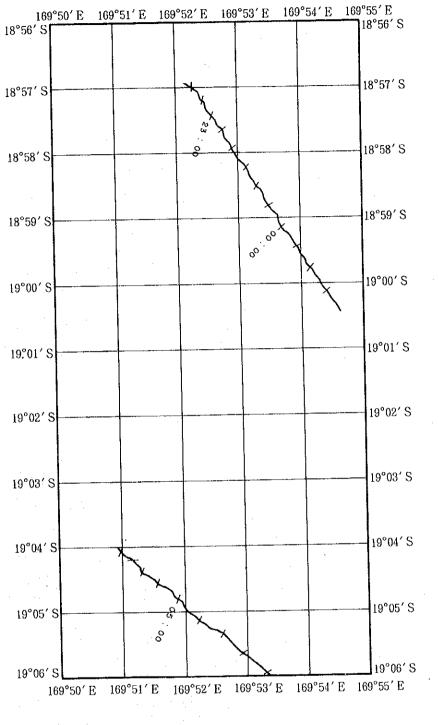
Annexed Figure 4 FDC Route Map (Line 94SFDC17) (11) (Central Part of the Erromango Basin)



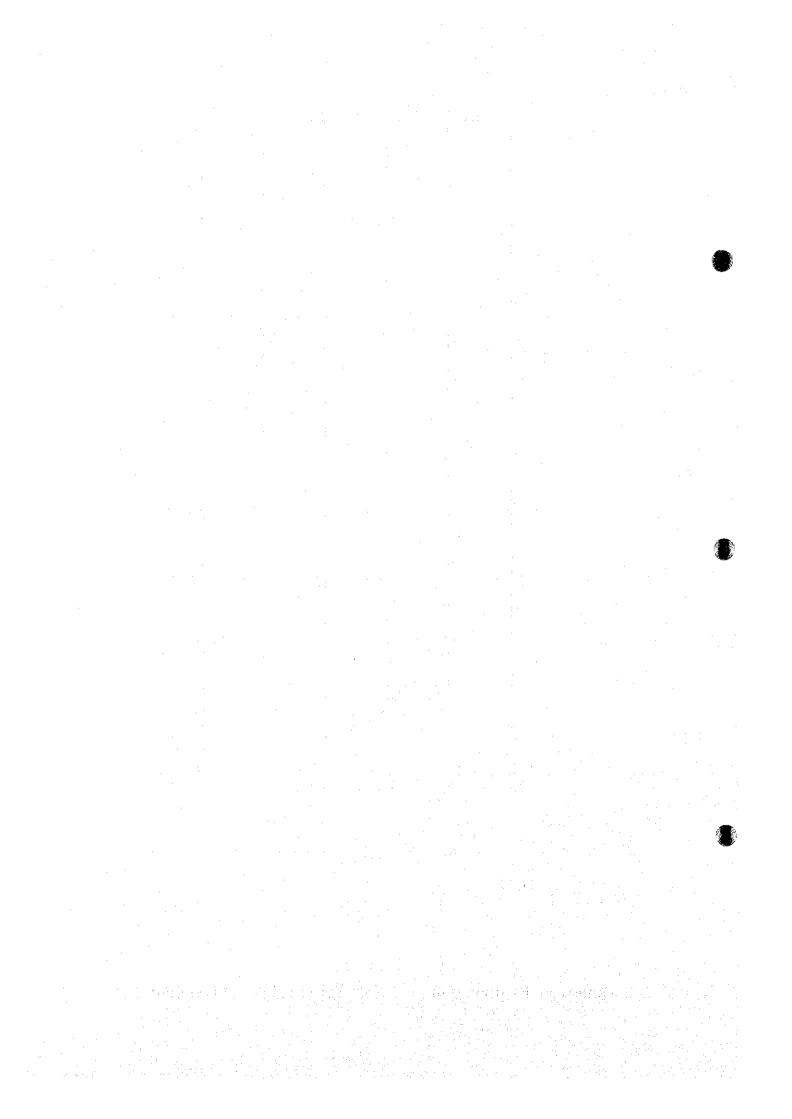
Annexed Figure 5-1 MBES Track Line Map

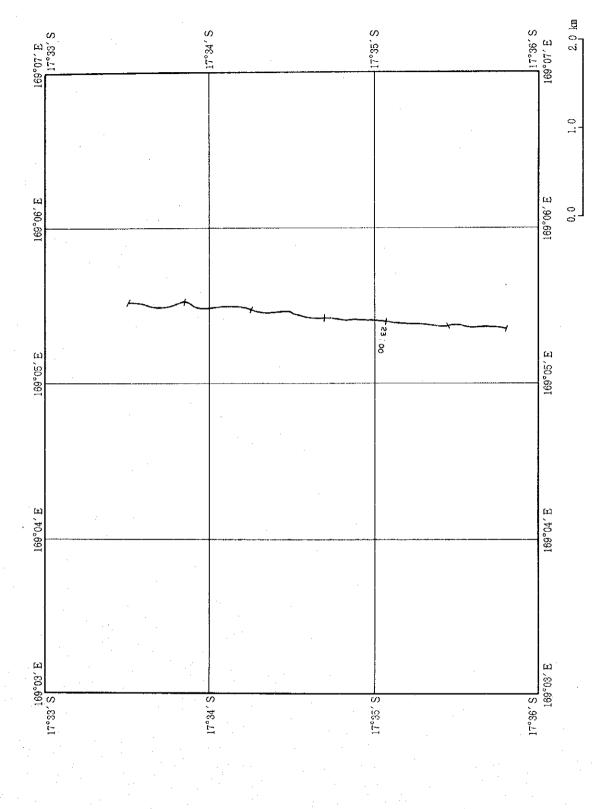


Annexed Figure 5-2 PGM Track Line Map



10.0 km 5, 0 0.0





Annexed Figure 5-3 SSS

SSS Vehicle Position Map (2)

