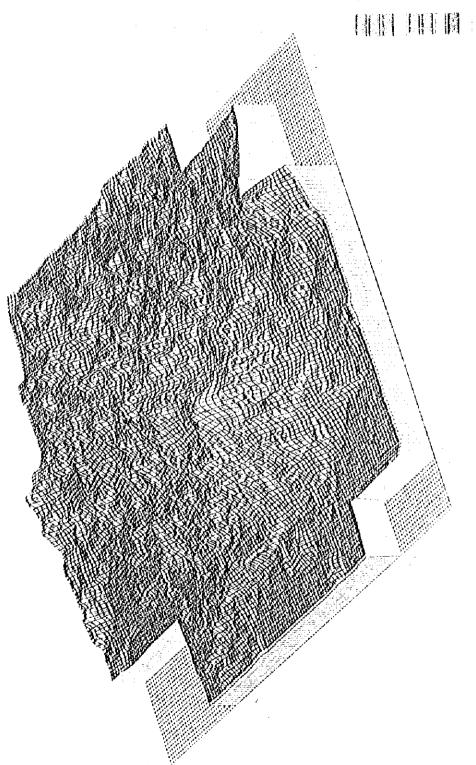
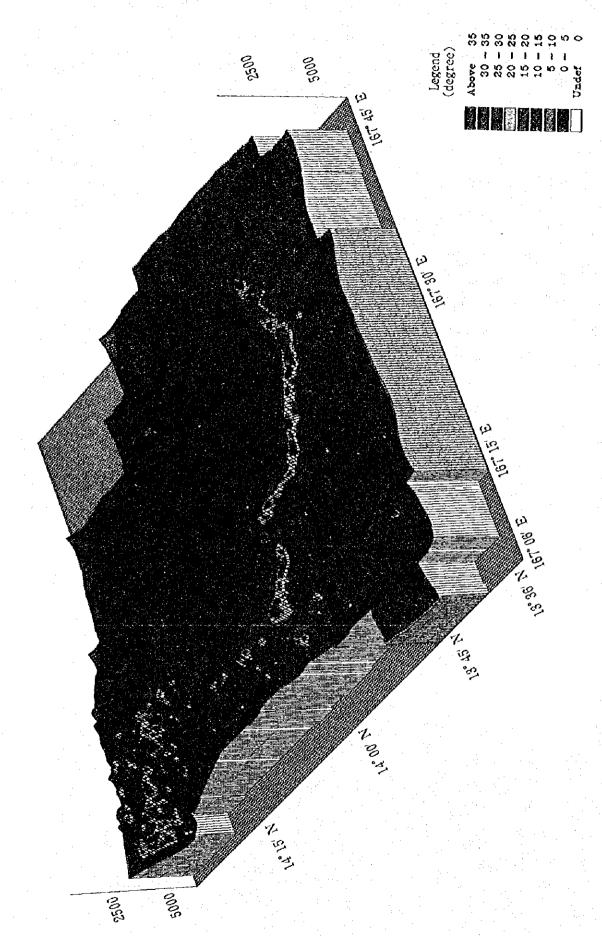


Bird's eye view of bathymetry projected with gradient of seamount MSO7 Appendix Fig. 4(7)



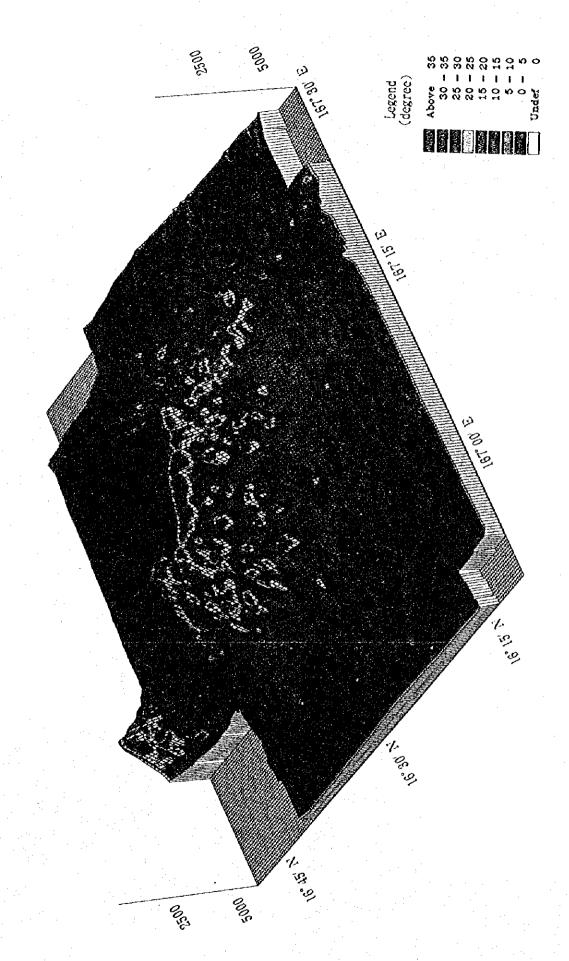




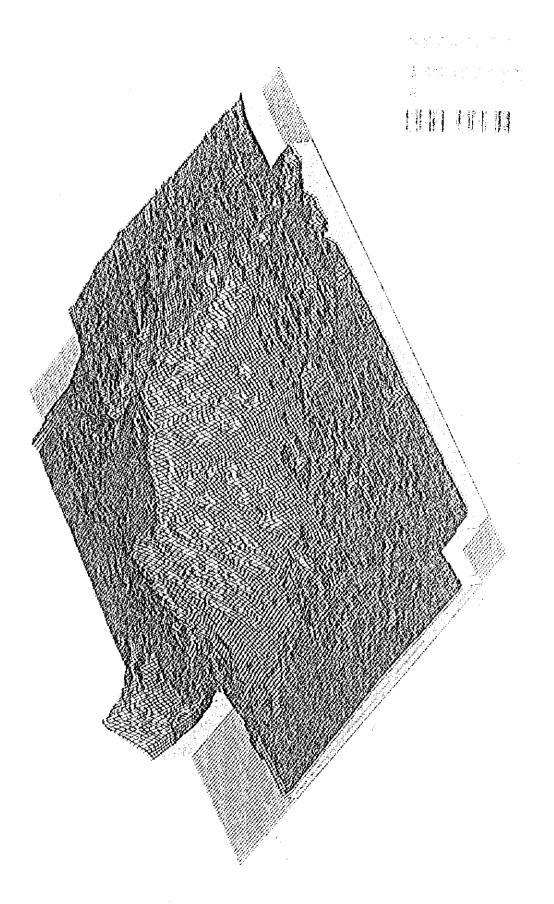
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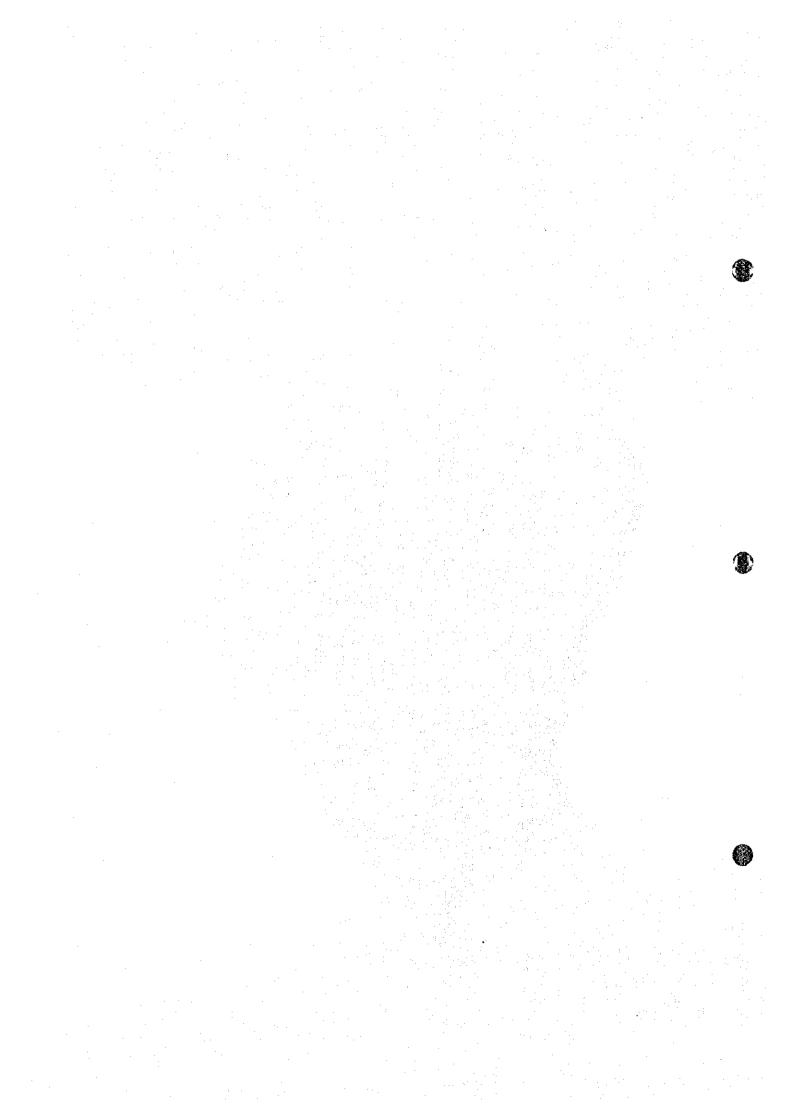
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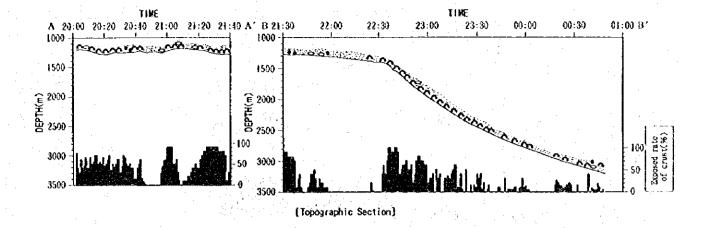
Bird's eye view of bathymetry projected with gradient of seamount MS08. Appendix Fig. 4 (8)

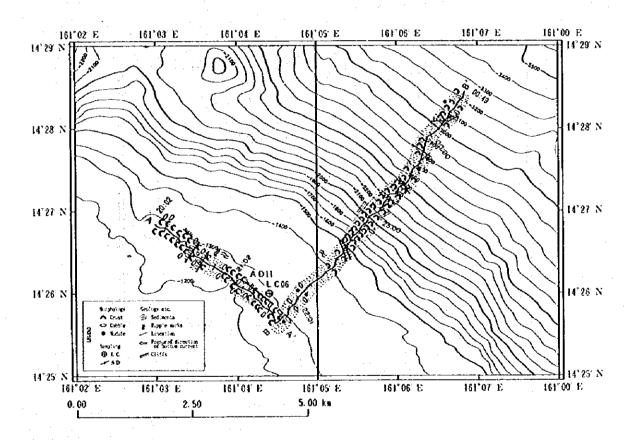


Bird's eye view of bathymetry projected with gradient of seamount MS09. Appendix Fig. 4(9)

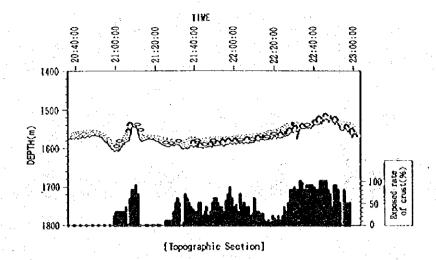


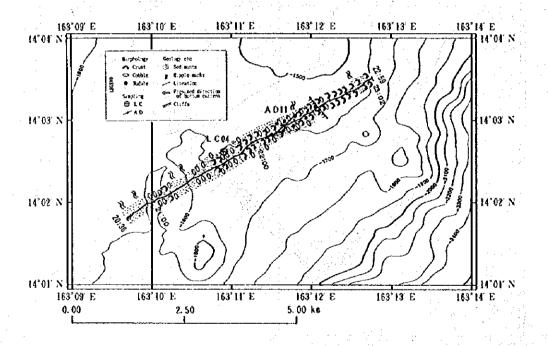




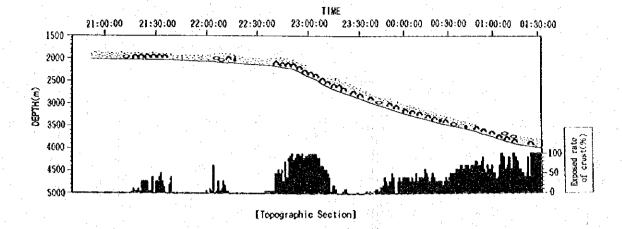


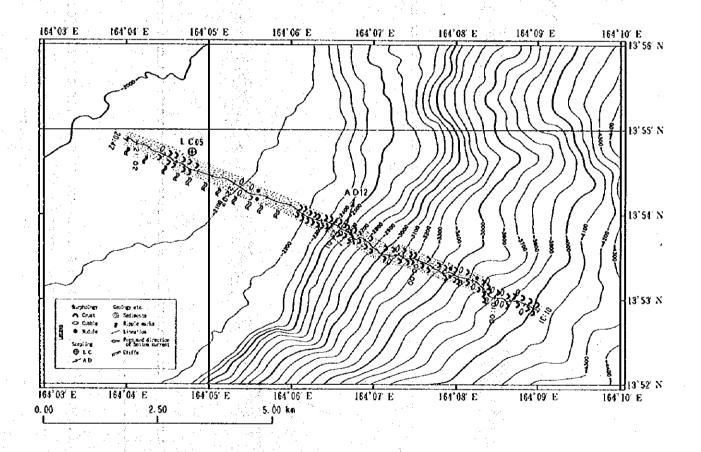
Appendix Fig. 5(1) Route maps of FDC observation and exposed rate diagrams of manganese crusts (seamount MSO1)



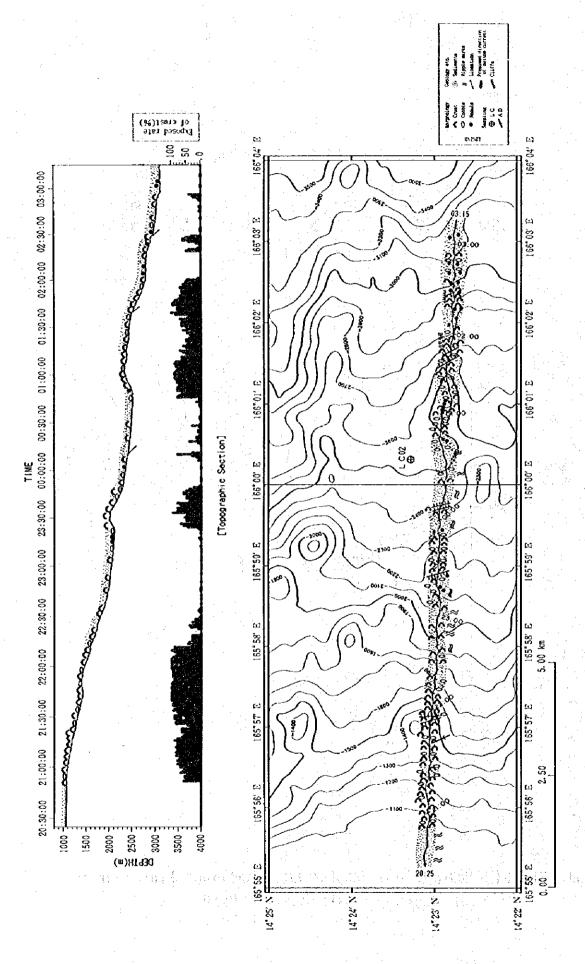


Appendix Fig. 5 (2) Route maps of FDC observation and exposed rate diagrams of manganese crusts (seamount MSO2)

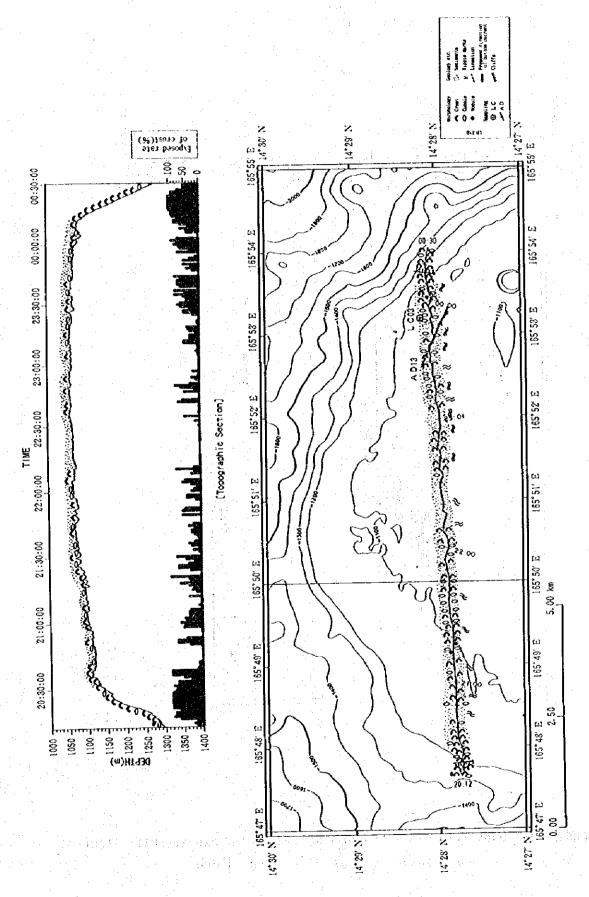




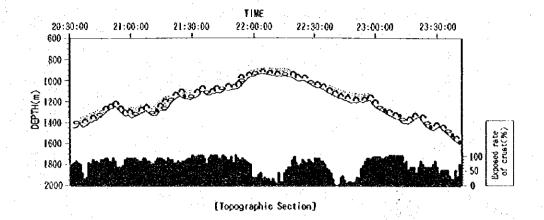
Appendix Fig. 5 (3) Route maps of FDC observation and exposed rate diagrams of manganese crusts (seamount MSO3)

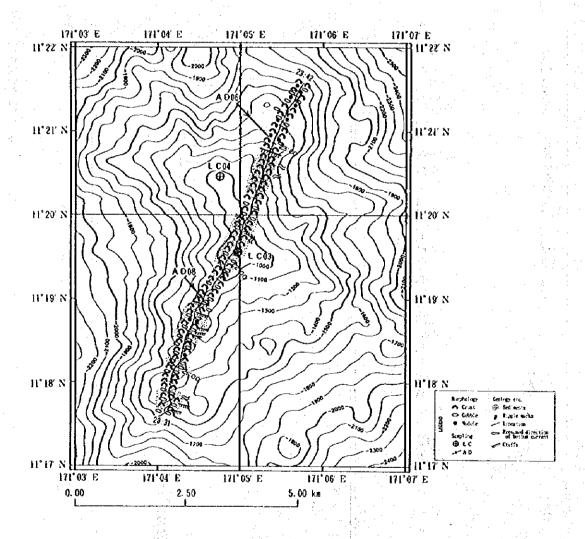


Route maps of FDC observation and exposed rate diagrams of manganese crusts (seamount MSO4) Appendix Fig. 5 (4)

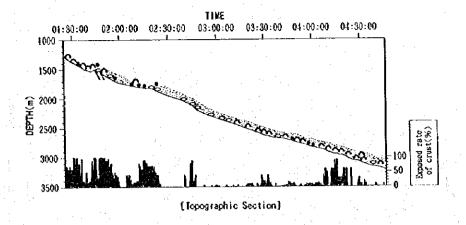


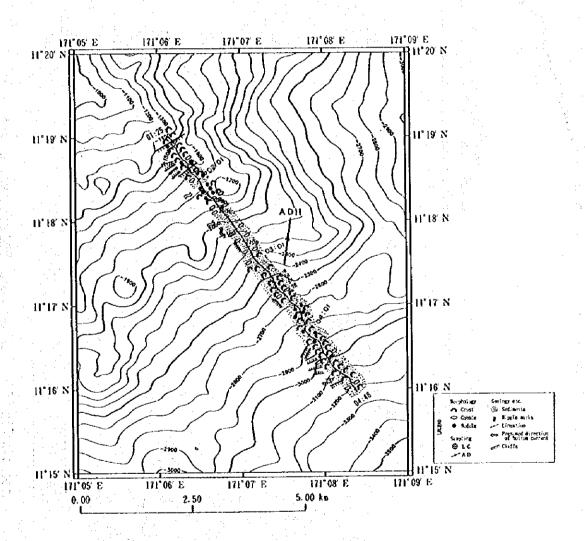
Appendix Fig. 5(5) Route maps of FDC observation and exposed rate diagrams of manganese crusts (seamount MSO4)



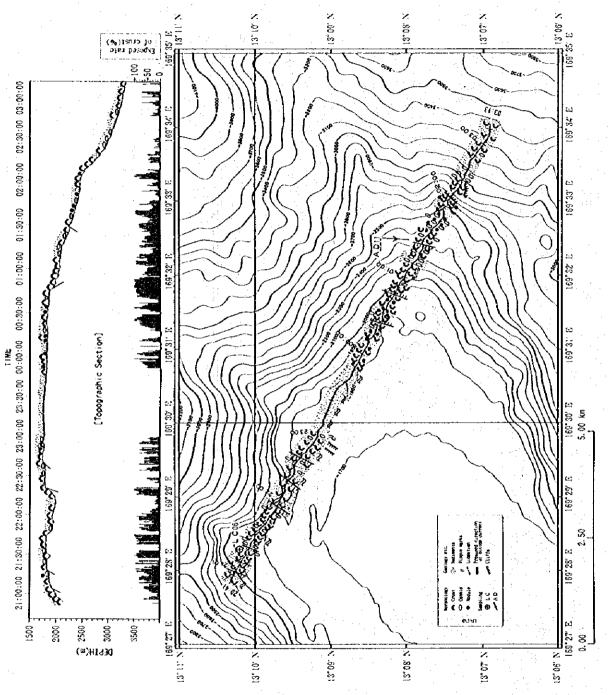


Appendix Fig. 5 (6) Route maps of FDC observation and exposed rate diagrams of manganese crusts (seamount MSO5)

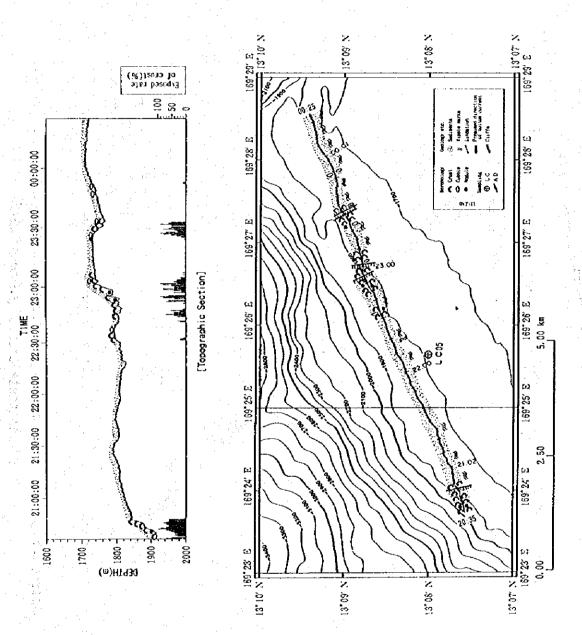




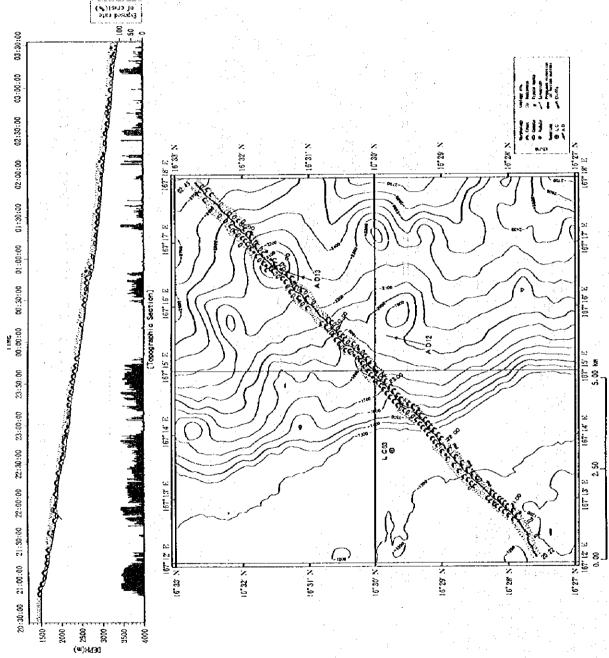
Appendix Fig. 5 (7) Route maps of FDC observation and exposed rate diagrams of manganese crusts (seamount MSO5)



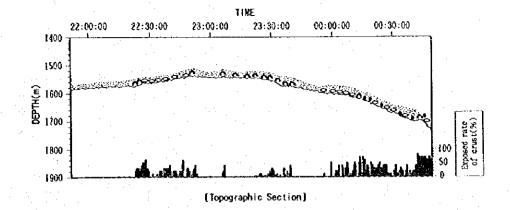
Route maps of FDC observation and exposed rate diagrams of manganese crusts (seamount MS06) Appendix Fig. 5(8)

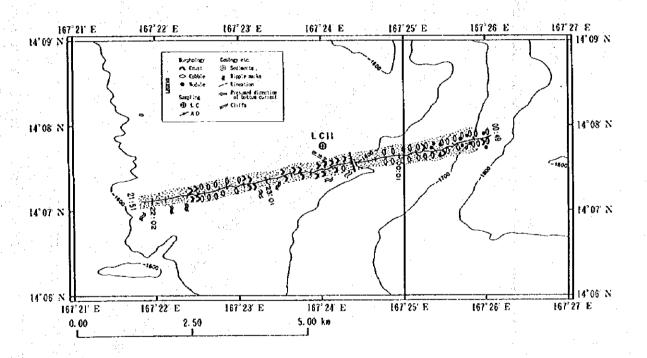


Appendix Fig. 5(9) Route maps of FDC observation and exposed rate diagrams of manganese crusts (seamount MSO6)

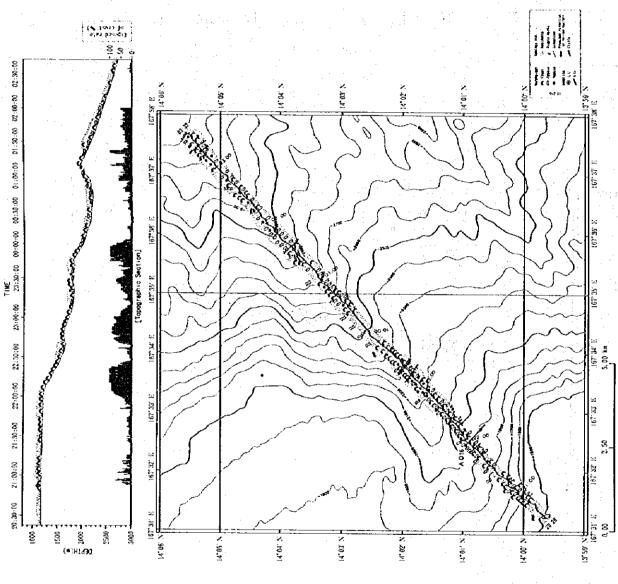


Appendix Fig. 5 (10) Route maps of FDC observation and exposed rate diagrams of manganese crusts (seamount MSO8)





Appendix Fig. 5(11) Route maps of FDC observation and exposed rate diagrams of manganese crusts (seamount MSO8)



Appendix Fig. 5 (12) Route maps of FDC observation and exposed rate diagrams of manganese crusts (seamount MSO9)

Sampling No.		96SMS01LC01		
Pepth (cm)	Color	Geologic column	Description	ihick- ness (cm)
	10YR5/3		Fine clay. Broad. Submarine sediment.	19
		1320		+ 1
	10YR3/4	194		
1	(Nu 4)	400	interbedded aud (silt) and foreninifera saud.	
			fatirely and predominate.	
50 -	101R5/4			i .
	(F. 5414()		and the second s	
			Yad (Silt) centirely high water content. wedium	
	1		viscosity and include time medium grains sand	
	1.			
			foraminifera sand: entirely close-packed and	1
100 -			include basaitte pebble (p.0.2~0.5cm, KANScu).	
				210
		1757	Certain pebble crust coaling (2.512/0).	
				i
				2
			14	
150 -	1		The state of the s	
				1
	,			
: .	1			1 '
200	1		200-220cm, clalyey silt.	
			4	
	2.516/4		Below 220cm, Basaltic pyroclastic rock.	19
		775.1175	Yesicular basaltic gravel and clastics.	
250	.]		Light yellowish brown	
Fag				1

Legend F. sand : Foraninifera sand

Sampling No. 968MS		96 SMS	01LC02		
Depth (cn)	Color	Ceologic Column	Description	Thick- aess (cm)	
	-		Fine clay. Pale bloom. Subnarine sedinent.	15	
	N .		and the state of t		
			forabinifera sand. Partly poze bixed.	1	
- :			Pale brown.	80	
50 -	EÓYR5/3		Entirely cluse packed and high water content.	**	
	;		Fulliela Cinze backed and with parer contrac-		
	*.		Fine-nedium grains sand	•	
		i de la			
]	L	
100					
				<u> </u>	

Color	Sampling No. 96 SMS		96 SMS	S 0 3 L C 0 2		
Fine silt. Pale blown. Submarine sediment. Pale blown foraminifera sand. Fine silt. Pale blown. Submarine sediment. Pale blown foraminifera sand. Solution of the silt. Grain size: \$0.3-0.5mm. Husks of foraminifera is scattered.		Color	_	Pescription	laick- ness (cm)	
50 - 10786/3 Entirely close-packed and high mater content. 90 Grain size: \$0.3~0.5mm. Hushs of forabiolfera is scattered.	·	:		Fine stit. Pale blorn. Sabnarine sedinent.	15	
100 -	50 100 -	10186/3		Entirely close-packed and high mater content.	90	

	Sampling No. 96SMS03LC03			2.25
Pepth (cm)	Color	Geologic Column	Description	Thick- ness (cm)
50 -			Forantnifera sand. Pale yellow.	
			Entirely close-packed bigh mater content and elasticity.	
100 -			70~100cm, particularly alga and content. Grain size:0.3~0.5mm.	:
	2. 547/4			310
150	2 ft 4		140~145cm partly discoloration light gray (% 547/2).	1
200 -				
250 -		*	Entirely not pebble niezed.	
300 -				

	ng No.	1	04LC10	
Depth (cn)	Color	Geologic Column	Description	Thick- ness (cn)
	· :*			
50			Forantnifera sand. Very pale blown.	
20			Entirely close-packed, high water content.	
100	10187/3	2 Dr. auf treiten frage	Partly high mud content, discoloration light gray (1887/2).	220
100	: .		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
150 -			Entirely busks of foraminifera is scattered.	Company of the control of the contro
200 -				
		9 1 15		1

Appendix Fig. 6(2) Columnar charts of LC core

Sampli	Sampling No. 965MS		S05LC02	
Pepili (cm)	Color	Geologic Coluna	Description	Thick- nession)
50	10YR7/3		Foraniuifera sand. Very pale blown. Entirely close-packed high sater content. Grain size: 0.2 ~ 0.5 nn Entirely not pebble niezed. Partly discoloration. Light gray (2.517/2).	100
100				

Sampling No.		96SMS06LC05		
Depth (cm)	Color	Geologic Column	Description	fblck- aess (cm)
50	19YR6/4		Foraminifera sand Entirely close-packed and high water content. Yot pebble and mud miexed, well-sorting. Grain size:0.3mm.	65
.*	7. SYR VE		Sandy mudstone. Light yellowish blown.	10
٠				

Saupli	Sampling No. 968MS		09LC01	
Depth (cu)	Color	Ceologic Column	Description	ībick- ness (cn)
	7. 5YR3/4		Clayey silt. Dark blown.	15
	51R4/4		Vedium mater content and include coarse sand. Lapill1 toff. Basaltic gravel, scoria, punise. Teathering and clayey.	25
50 -				,

Sampling No.		96SMS09LC05				
Depth (cm)	Color	Geologic Column	Description	iblek- aess (cm)		
	10YR8/Z		Foraminifera sand. White, close-packed and high water content. Grain size: 0,2~0.5mm. Below 30cm, and mixed. Entirely hosks of foraminifera is scattered.	50		
50	2. 512/0		Belon Socn, Crust.	10		
	٠.			1		

REGEND						
Clay, Silt						
Foraminifera	sand					
Crust	٠.					
Rock						

