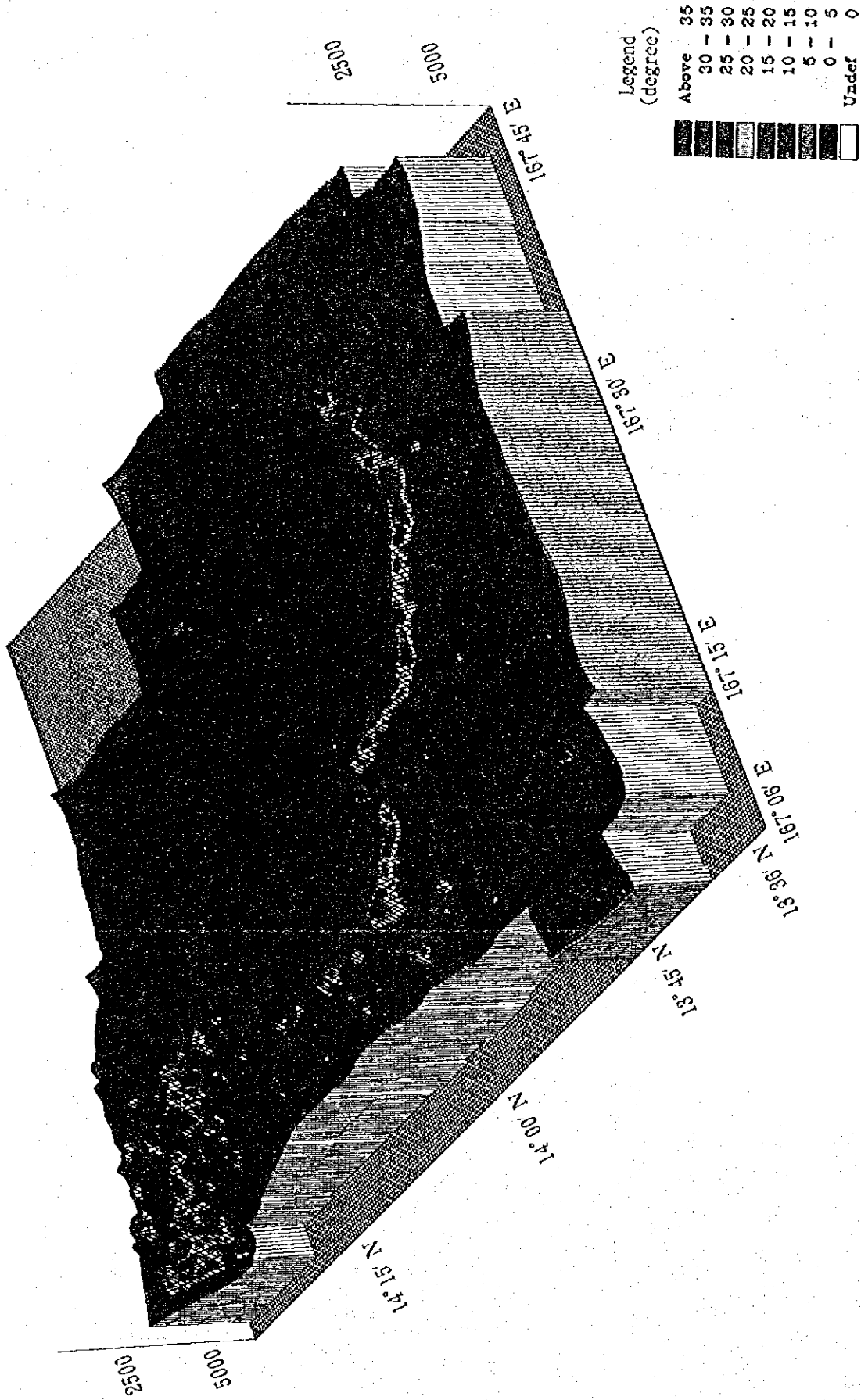
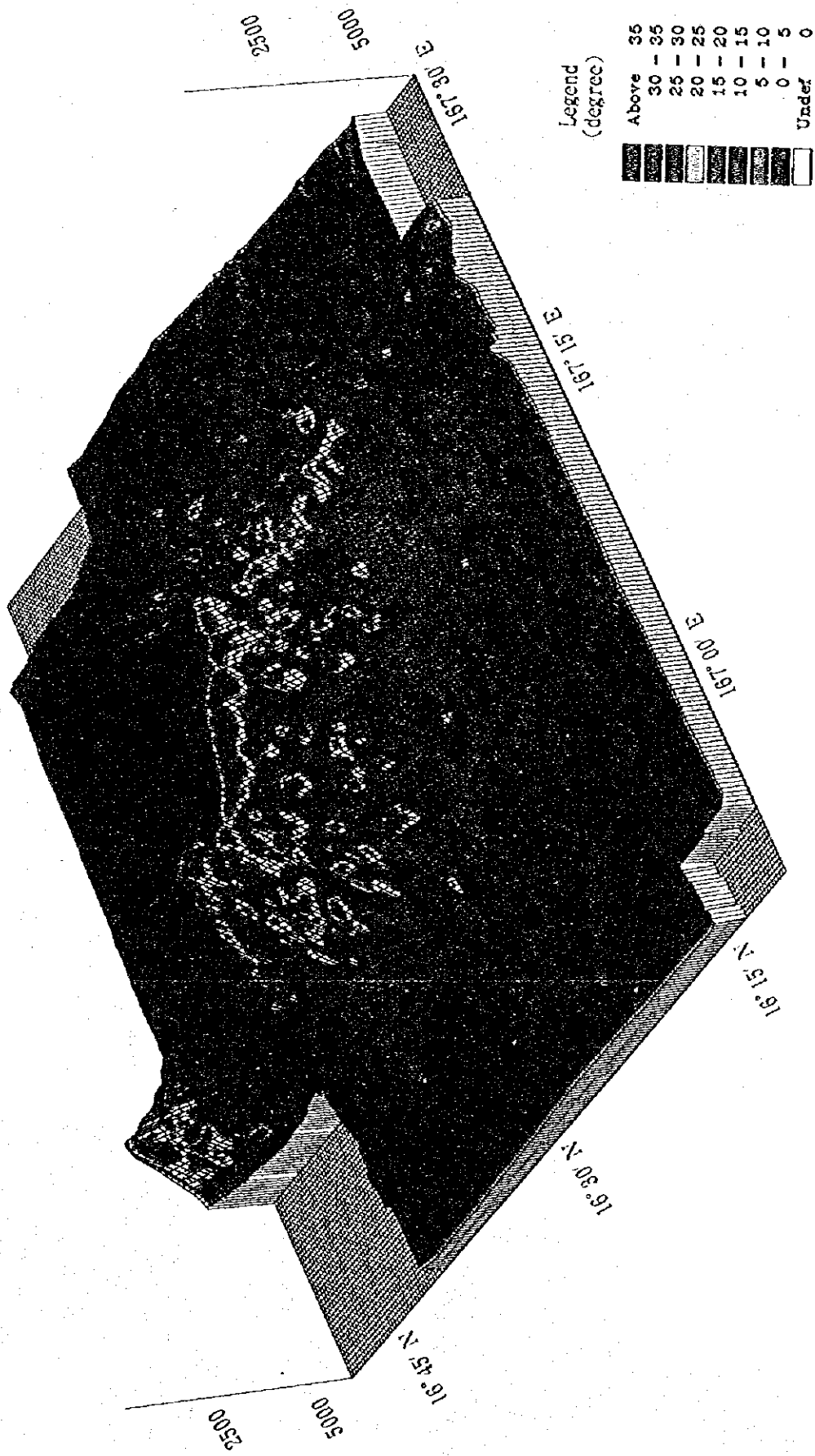


Appendix Fig. 4 (7) Bird's eye view of bathymetry projected with gradient of seamount MS07

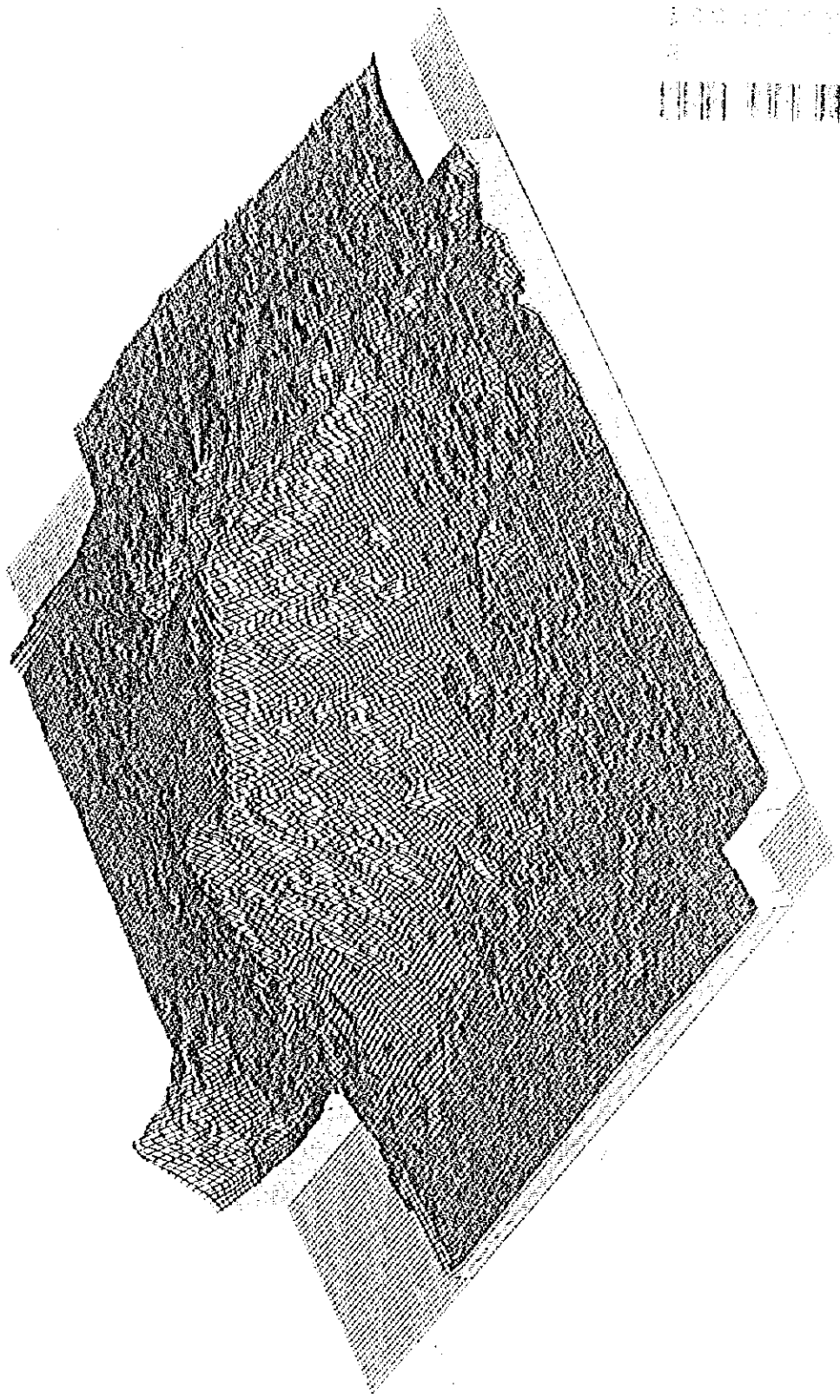


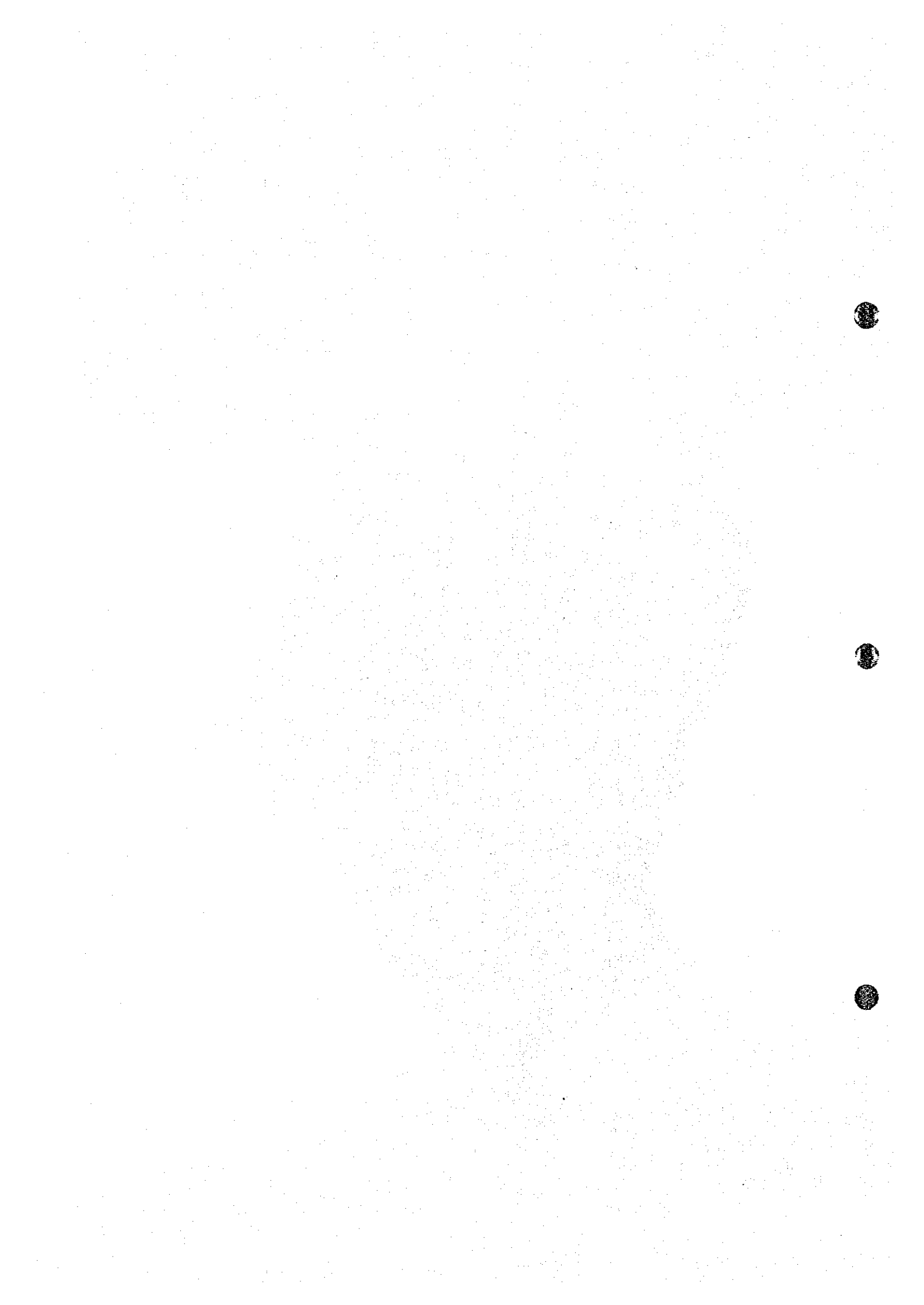
Appendix Fig. 4 (8) Bird's eye view of bathymetry projected with gradient of seamount MS08.

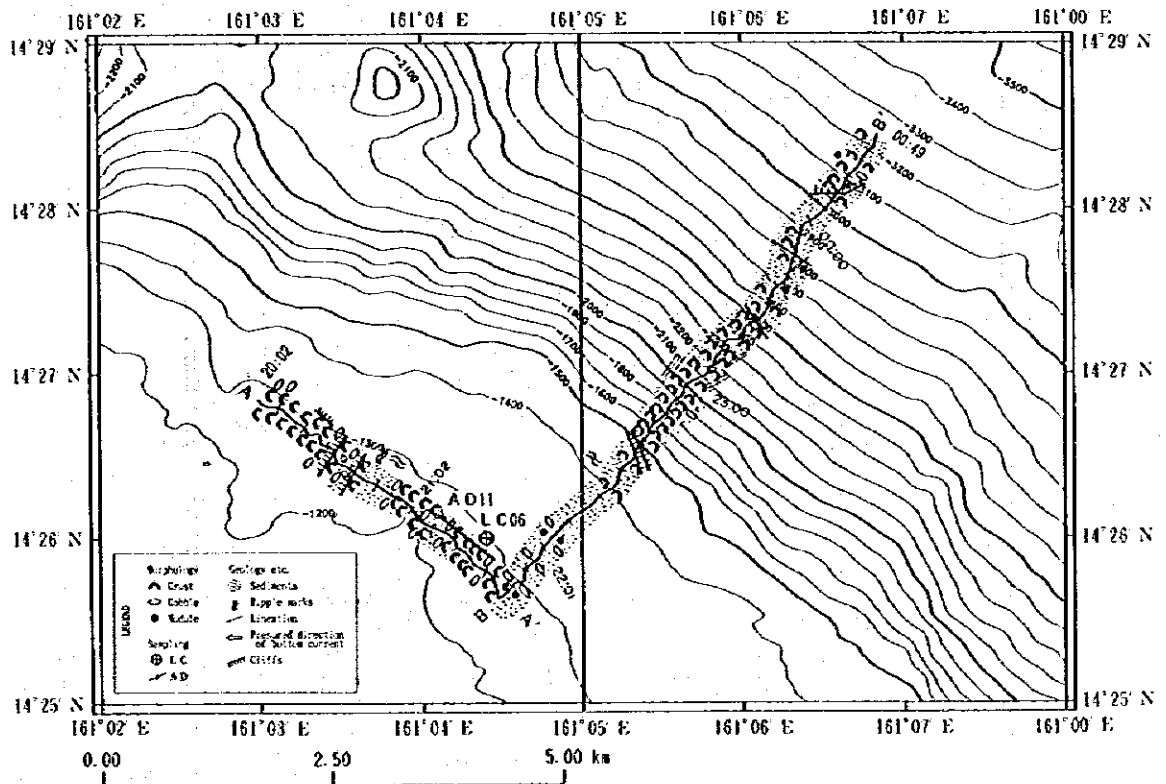
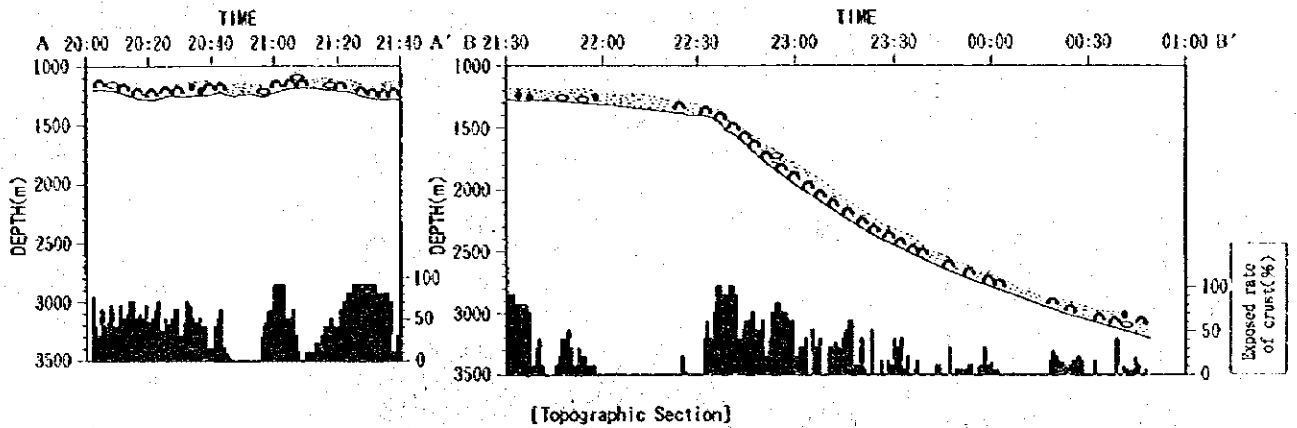


Appendix Fig. 4 (9) Bird's eye view of bathymetry projected with gradient of seamount MS09.

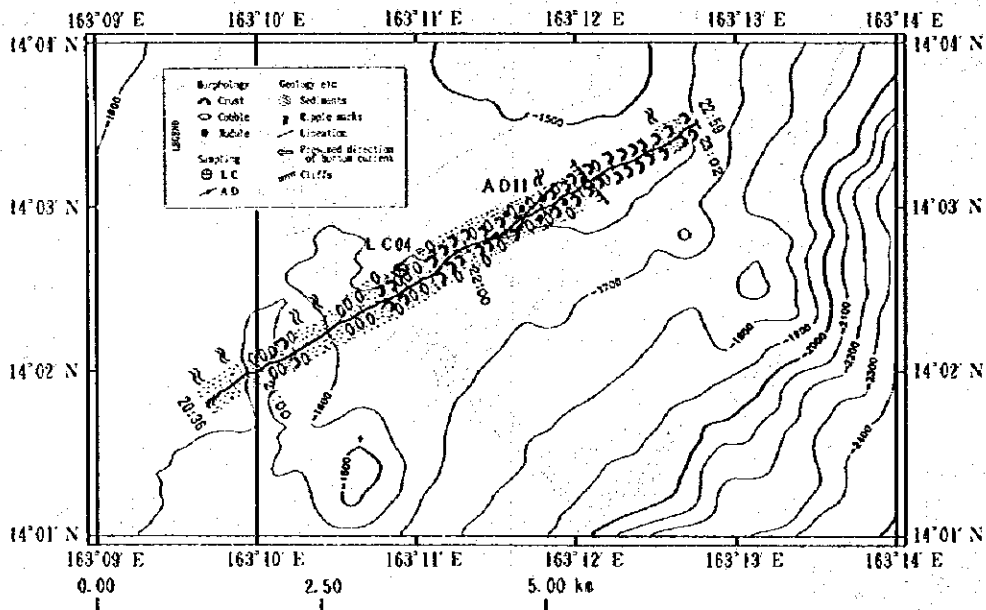
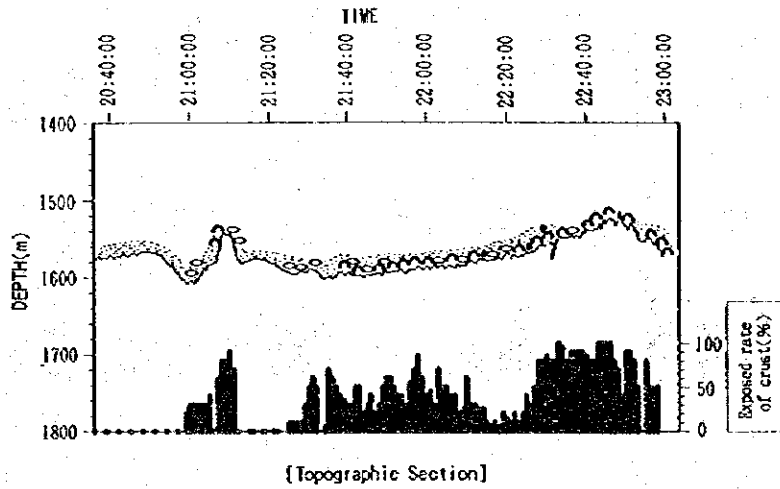
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100-100000-100000
100-100000-100000



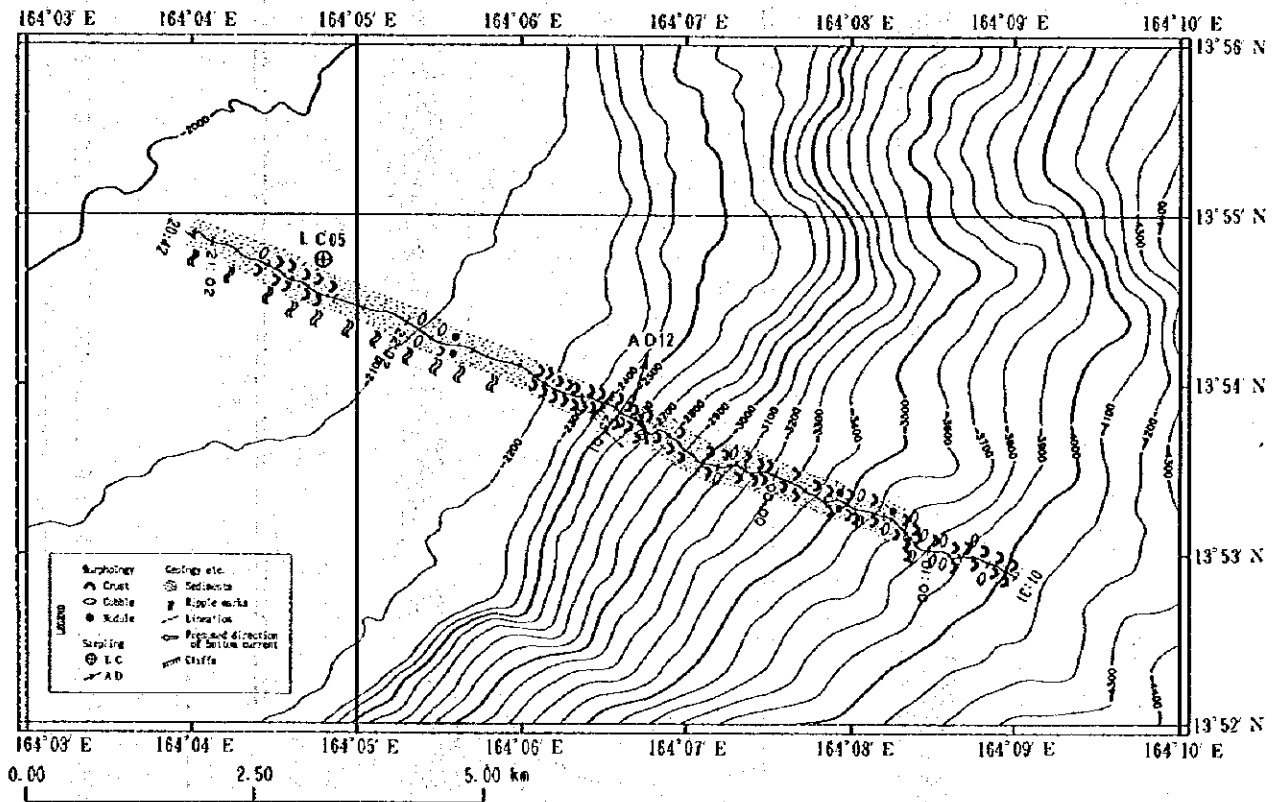
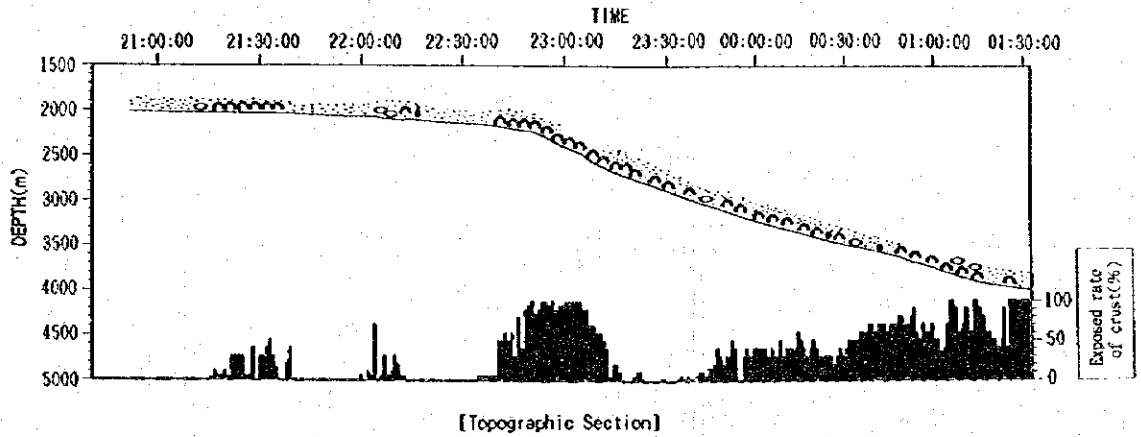




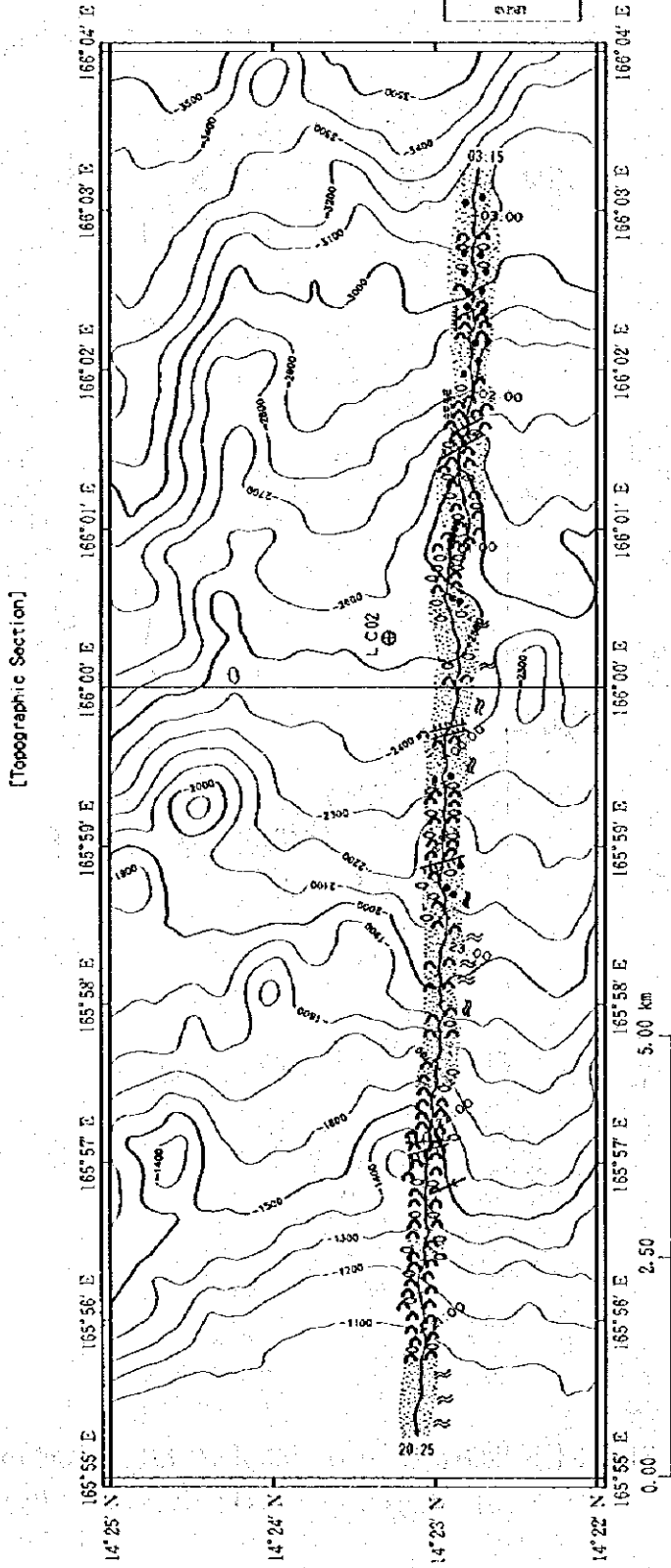
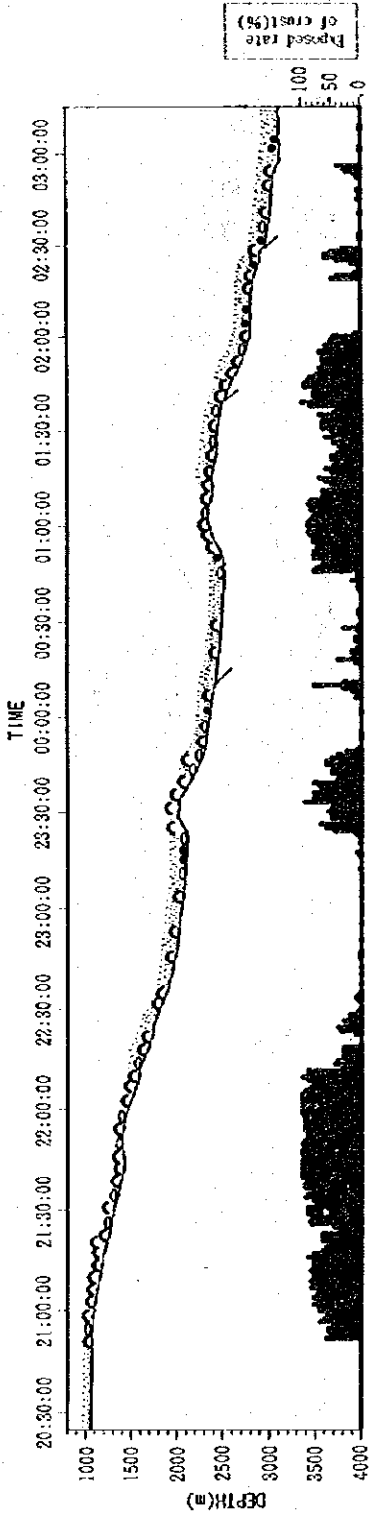
Appendix Fig. 5 (1) Route maps of FDC observation and exposed rate diagrams of manganese crusts (seamount MS01)



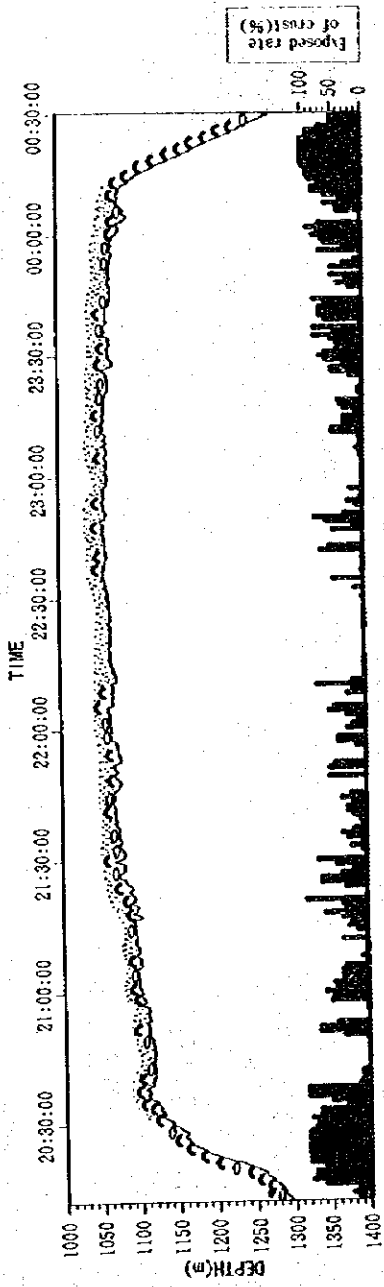
Appendix Fig. 5 (2) Route maps of FDC observation and exposed rate diagrams of manganese crusts (seamount MS02)



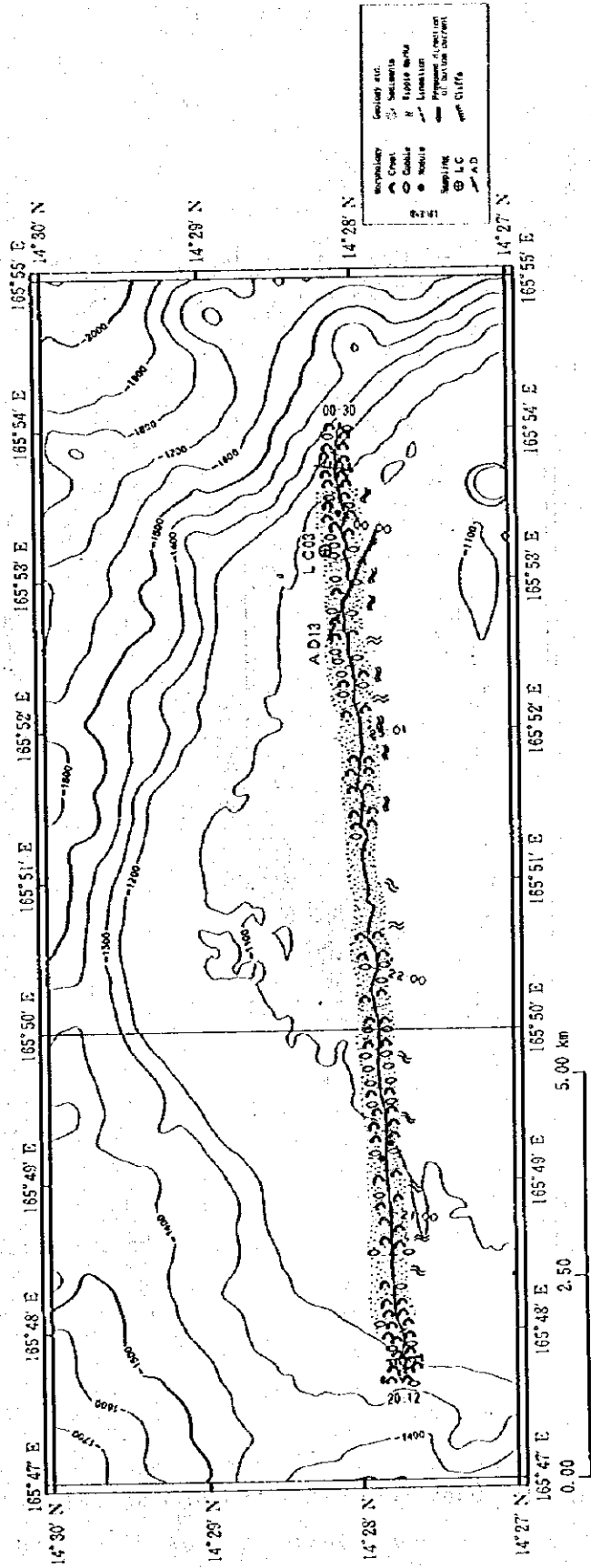
Appendix Fig. 5 (3) Route maps of FDC observation and exposed rate diagrams of manganese crusts (seamount MS03)



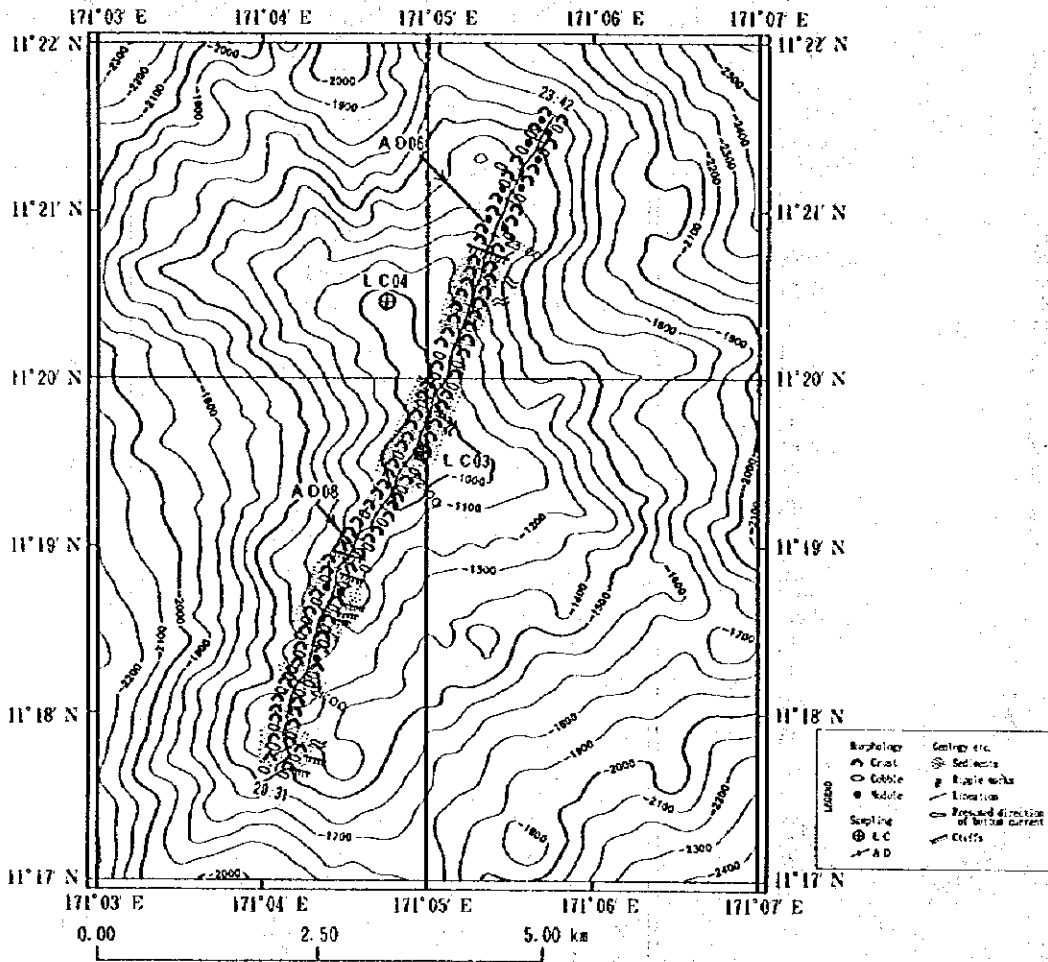
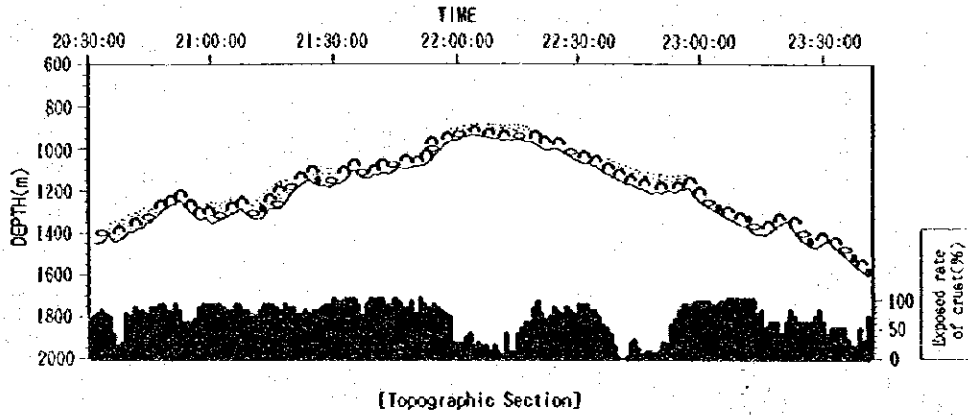
Appendix Fig. 5 (4) Route maps of FDC observation and exposed rate diagrams of manganese crusts (seamount MS04)



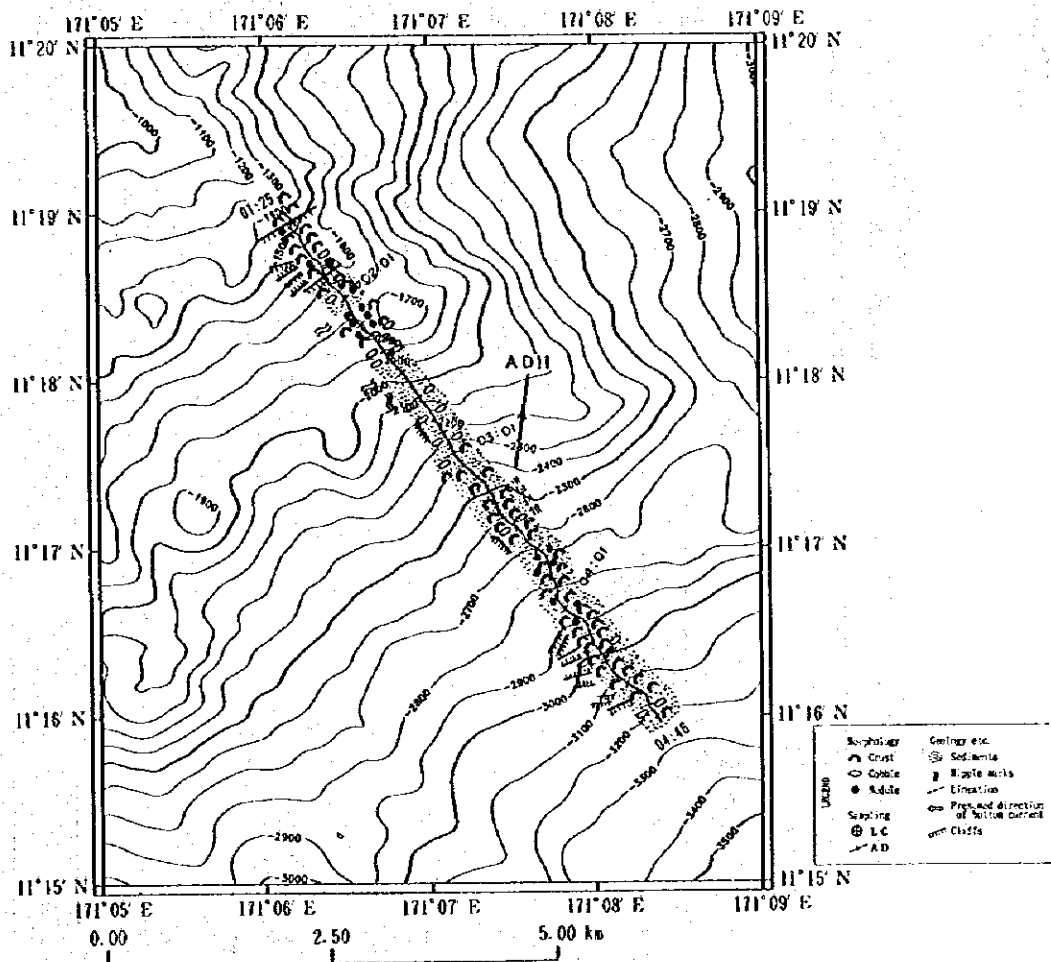
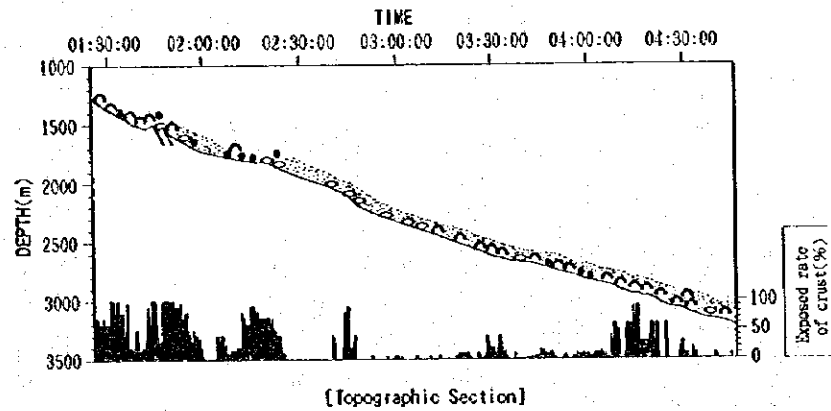
[Topographic Section]



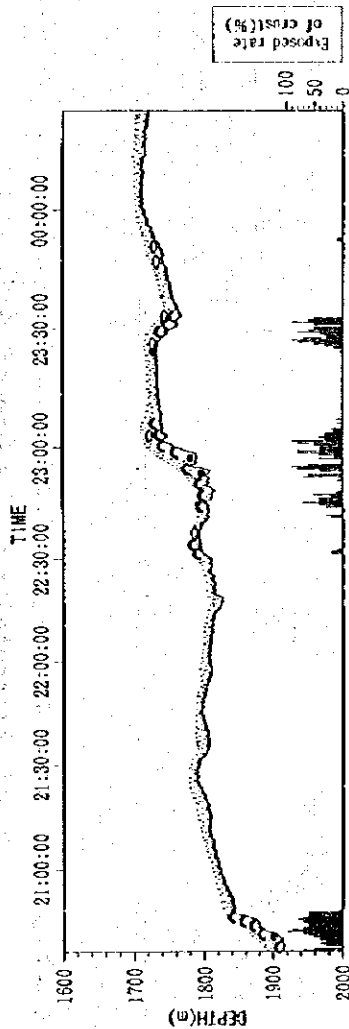
Appendix Fig. 5 (5) Route maps of FDC observation and exposed rate diagrams of manganese crusts (seamount MS04)



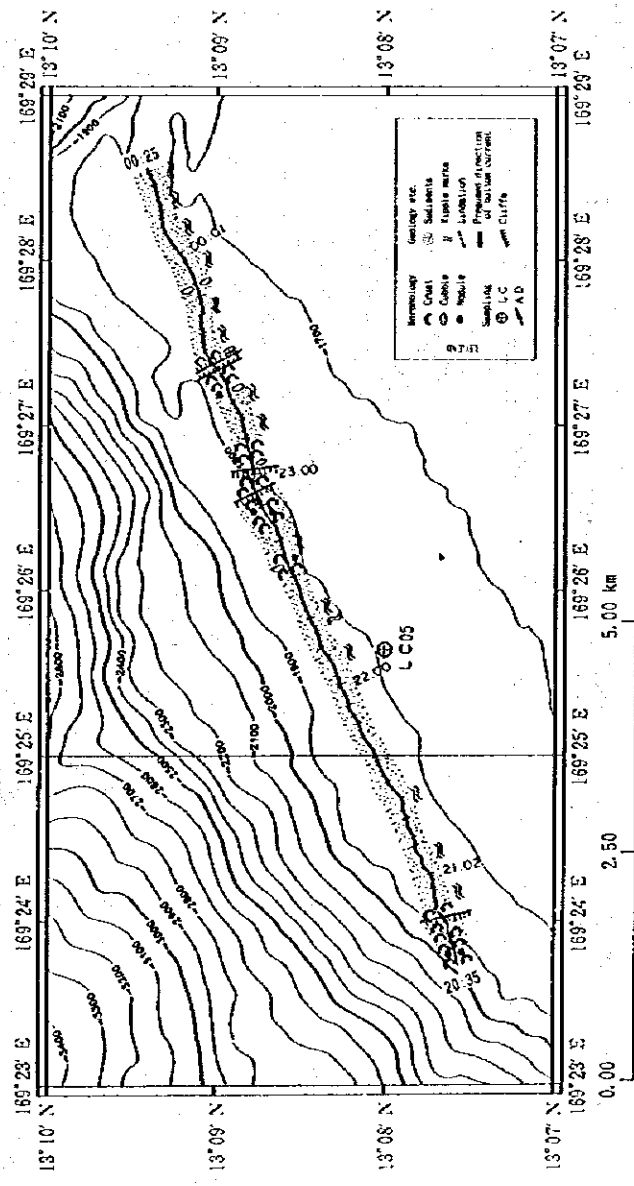
Appendix Fig. 5 (6) Route maps of FDC observation and exposed rate diagrams of manganese crusts (seamount MS05)



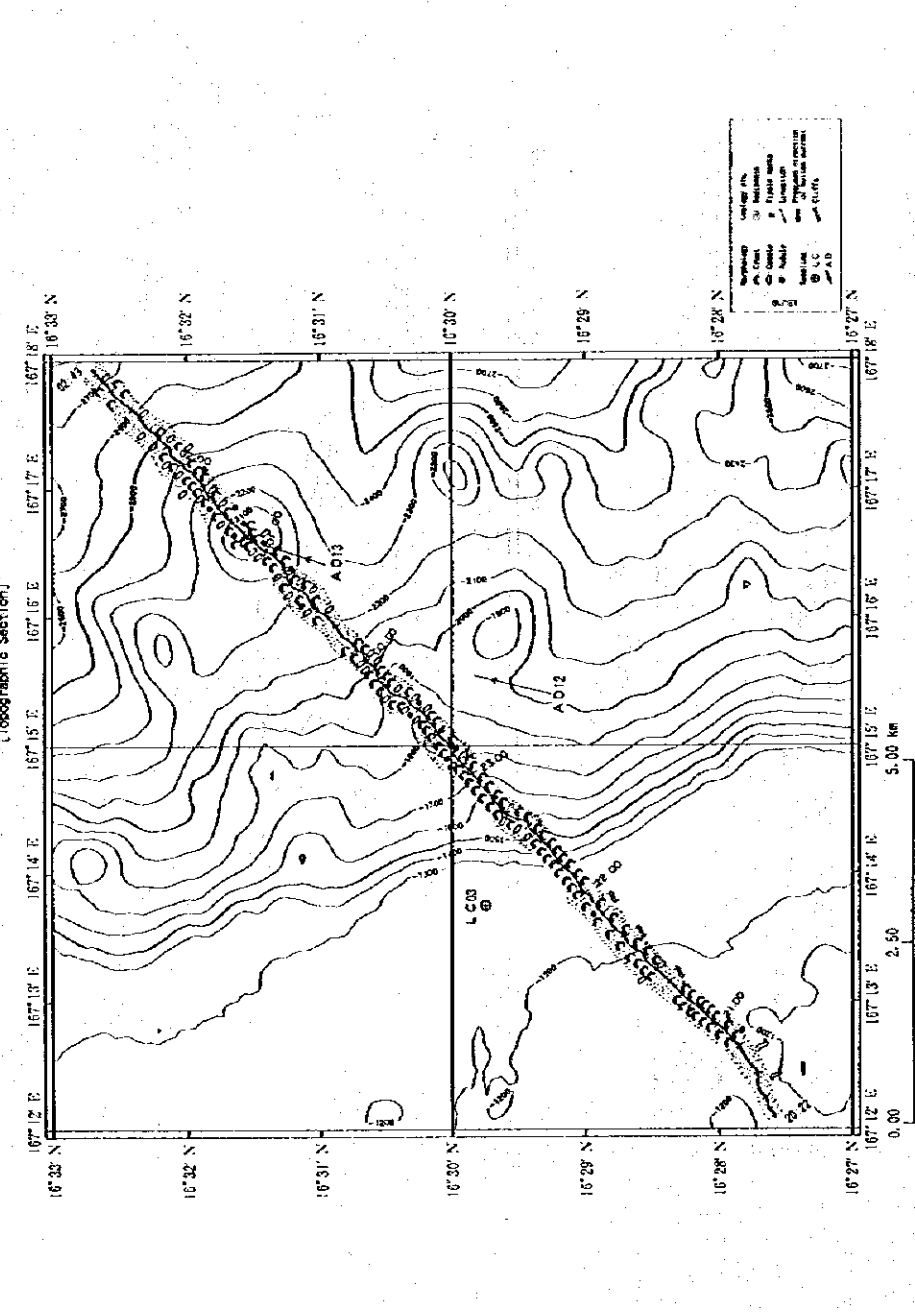
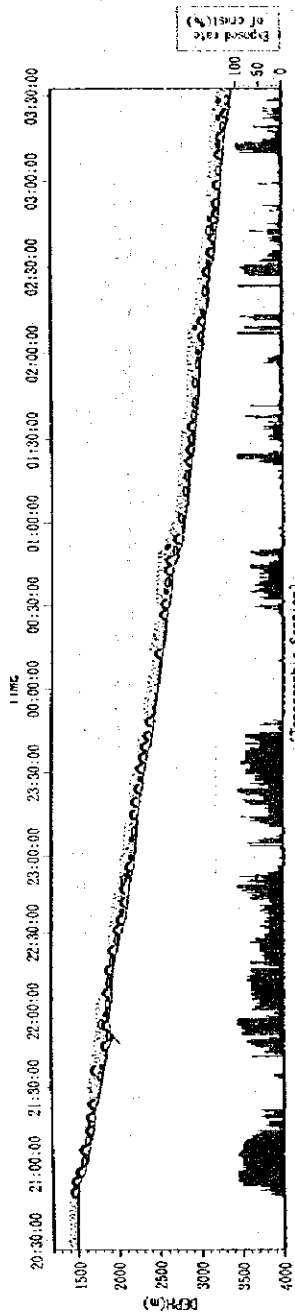
Appendix Fig. 5 (7) Route maps of FDC observation and exposed rate diagrams of manganese crusts (seamount MS05)



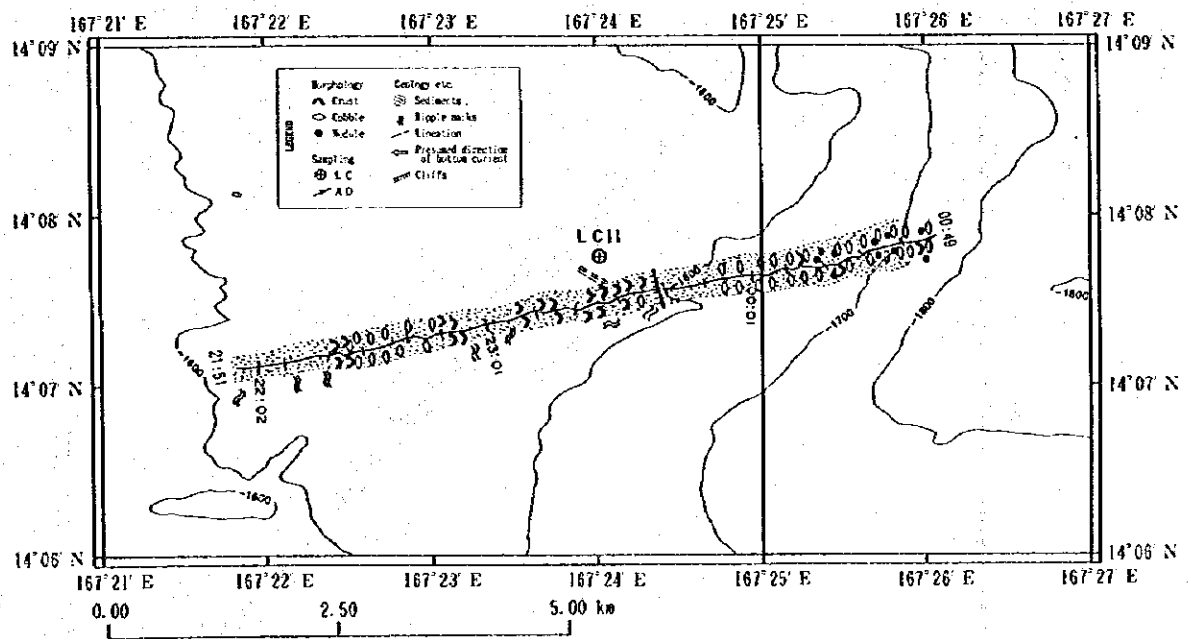
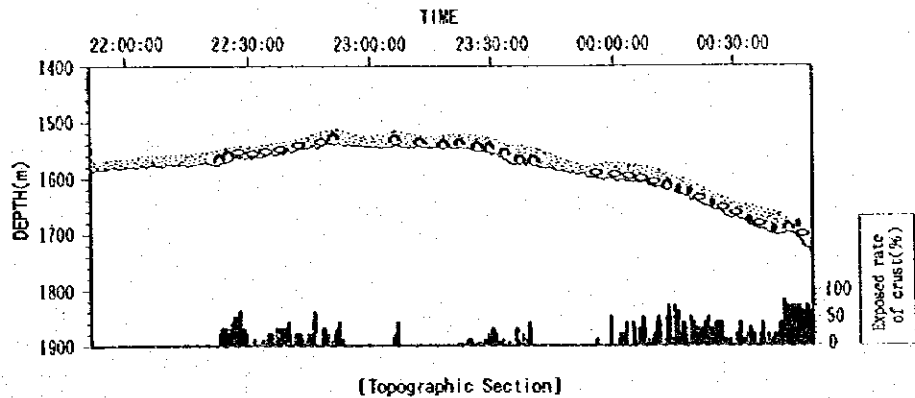
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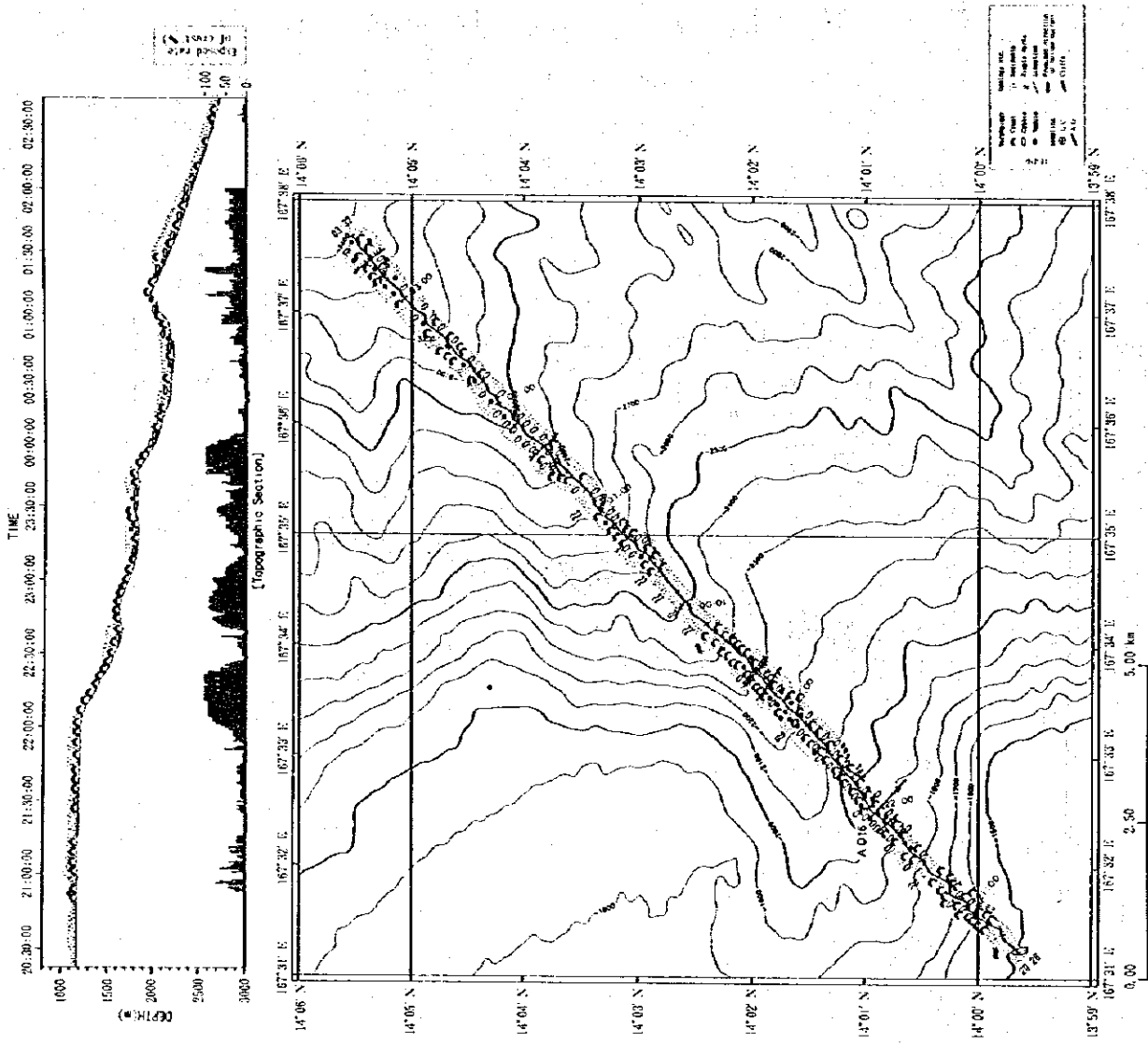
Appendix Fig. 5 (9) Route maps of FDC observation and exposed rate diagrams of manganese crusts (seamount MS06)



Appendix Fig. 5(10) Route maps of FDC observation and exposed rate diagrams of manganese crusts (seamount MS08)



Appendix Fig. 5 (11) Route maps of FDC observation and exposed rate diagrams of manganese crusts (seamount MS08)



Appendix Fig. 5 (12) Route maps of FDC observation and exposed rate diagrams of manganese crusts (seamount MS09)

Sampling No. 96SMS01LC01				
Depth (cm)	Color	Geologic column	Description	Thickness (cm)
	101R5/3		Fine clay. Brown. Submarine sediment.	10
50	101R3/4 (Mud)		Interbedded mud (silt) and foraminifera sand. Entirely mud predominate.	210
100	101R5/4 (F. sand)		Mud (Silt): entirely high water content, medium viscosity and include fine medium grains sand Foraminifera sand: entirely close-packed and include basaltic pebble (ϕ 0.2~0.5cm, MAX 6cm). Certain pebble crust coating (2.512/0).	
150				
200			200-220cm, clayey silt.	
	2.516/4		Below 220cm, Basaltic pyroclastic rock.	10
250			Vesicular basaltic gravel and elastics. Light yellowish brown.	

Legend F. sand: Foraminifera sand

Sampling No. 96SMS01LC02				
Depth (cm)	Color	Geologic Column	Description	Thickness (cm)
			Fine clay. Pale brown. Submarine sediment.	15
50	101R6/3		Foraminifera sand. Partly ooze mixed. Pale brown. Entirely close-packed and high water content. Fine-medium grains sand.	80
100				

Sampling No. 96SMS03LC02				
Depth (cm)	Color	Geologic Column	Description	Thickness (cm)
			Fine silt. Pale brown. Submarine sediment.	15
50	101R6/3		Pale brown foraminifera sand. Entirely close-packed and high water content. Grain size: ϕ 0.3~0.5mm. Husks of foraminifera is scattered.	90
100				

Appendix Fig. 6(1) Columnar charts of LC core

Sampling No. 96SMS03LC03				
Depth (cm)	Color	Geologic Column	Description	Thickness (cm)
50			Foraminifera sand. Pale yellow.	
			Entirely close-packed, high water content and elasticity.	
100			70~100cm, particularly high mud content.	
			Grain size: 0.3~0.5mm.	
150	2.5Y7/4		140~145cm, partly discoloration, light gray (2.5Y7/2).	310
200				
250			Entirely not pebble mixed.	
300				

Sampling No. 96SMS04LC10				
Depth (cm)	Color	Geologic Column	Description	Thickness (cm)
50			Foraminifera sand. Very pale brown.	
			Entirely close-packed, high water content.	
100	10YR7/3		Partly high mud content, discoloration light gray (10YR7/2).	220
150			Entirely husks of foraminifera is scattered.	
			Not pebble mixed.	
200				





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

Sampling No.		96SMS05LC02		
Depth (cm)	Color	Geologic Column	Description	Thickness (cm)
50	10YR7/3		Foraminifera sand. Very pale brown. Entirely close-packed, high water content. Grain size: 0.2~0.5mm Entirely not pebble mixed.	100
100			Partly discoloration. Light gray (2.5Y7/2).	

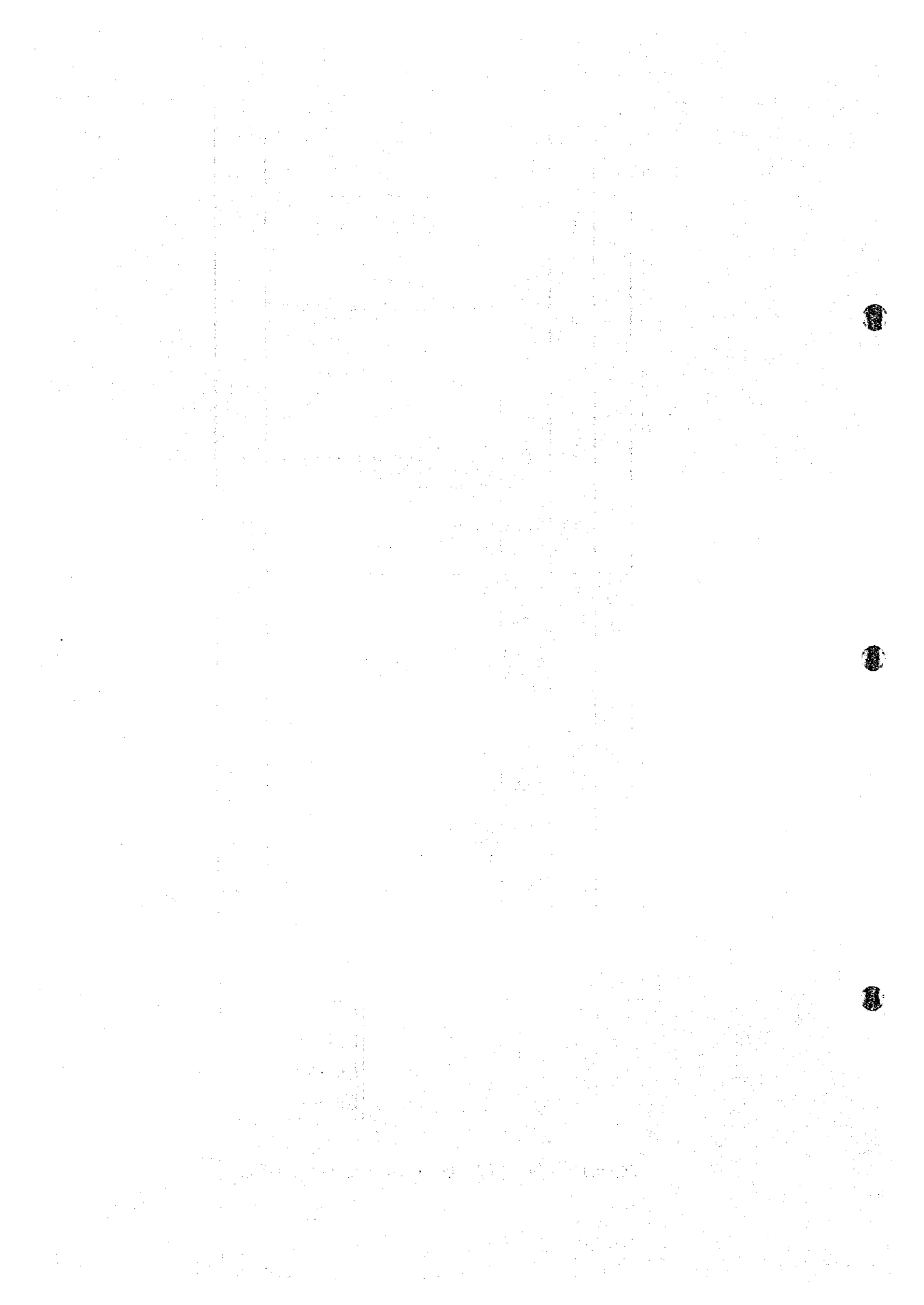
Sampling No.		96SMS06LC05		
Depth (cm)	Color	Geologic Column	Description	Thickness (cm)
50	10YR6/4		Foraminifera sand. Entirely close-packed and high water content. Not pebble and mud mixed, well-sorting. Grain size: 0.3mm.	65
	7.5YR4/6		Sandy mudstone. Light yellowish brown.	10

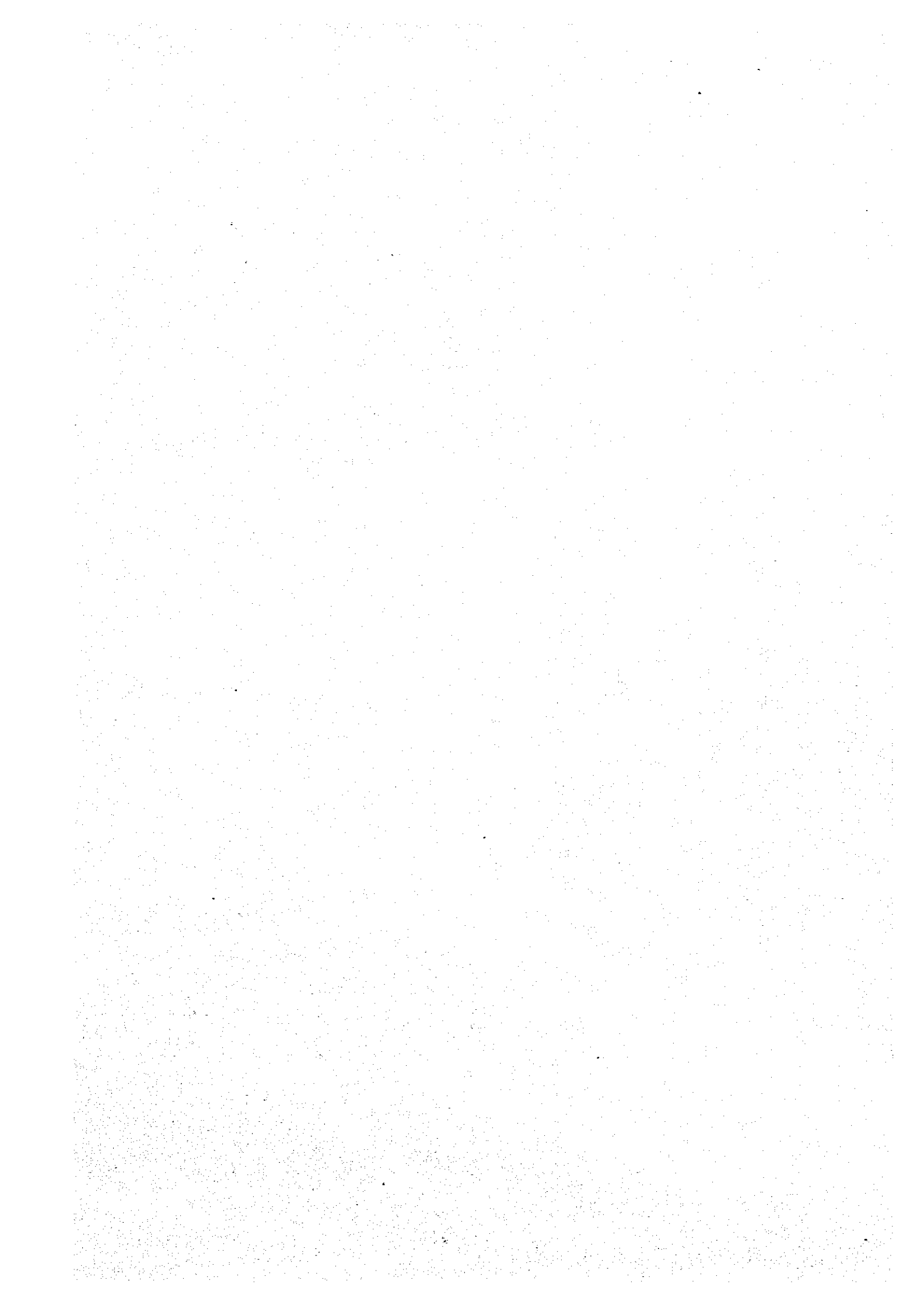
Sampling No.		96SMS09LC01		
Depth (cm)	Color	Geologic Column	Description	Thickness (cm)
50	7.5YR3/4		Clayey silt. Dark brown. Medium water content and include coarse sand. Capilli buff. Basaltic gravel, scoria, pumice. Weathering and clayey.	15
	5YR4/4			25

Sampling No.		96SMS09LC05		
Depth (cm)	Color	Geologic Column	Description	Thickness (cm)
50	10YR8/2		Foraminifera sand. White, close-packed and high water content. Grain size: 0.2~0.5mm. Below 30cm, mud mixed. Entirely husks of foraminifera is scattered.	50
	2.5Y2/0		Below 50cm, Crust.	10

REGEND	
	Clay Silt
	Foraminifera sand
	Crust
	Rock

Appendix Fig. 6 (3) Columnar charts of LC core





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