14. SEDIMENT THIN SECTION DATA

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SEDIMENT THIN SECTION DATA

Sample Designation[a]	Observable Porosity				Particle Size Mode (mm)							Packing				
	Inter-Particle		Intra-Particle										Grain Supported			
	Good	Fair	Good	Fair	> 2.0	1.0 - 2.0	0.5 - 1.0	0.25 - 0.5	0.125 - 0.25	0.062 - 0.125	< 0.062	Mud-Supported	Interstitial Mud	Interstices Void	Interstitial Cement	Organic Binding
24 2 1		/					/					/				
24A 1 1											/	/				
24A 2 1										/		/				
25A 1		/														/
27 7 1, 10 cm											/	/				
29 1 1										/		/				
29 19 Core catcher, 5 cm				/					/				/			
29C 2 1										/		/				
30 9 1, 5 cm				/					/			/				
30 9 2, 4 cm				/					/			/				
30 10 1, 8 cm				/					/			/				
30 10 2, Top				/					/				/			
30 10 3, Top				/					/			/				
30 11 Core catcher									/			/				
30 12 Core catcher									/			/				
30 13 Core catcher				/					/			/				
30 14 1, Top				/					/				/			
30 15 Core catcher				/					/				/			
30 16 1, Bottom				/					/				/			
31 9 Core catcher									/			/				

[a]Hole-Core-Section-Depth in centimeters from top of section.

	Particulate Components														
	Carbonate														
	Non-Skeletal Particles					Skeletal Particles									
						Bioclastic									
	Total (%)	Pellets or Lumps	Intraclasts	Oolites	Others	Total (%)	Mollusc	Echinoderm	Coral	Stromatoporoid	Bryozoa	Algae	Foraminifera	Ostracod	Others
	12	X	X			8	/		/			/	/	/	
	35	X				3							/		
		/				17	/					X	X	/	
	18	X													
						23							X	/	
	30	X													
						14							X	X	
						30							X	X	
	1/2		/			15	/						X	X	
						20							X	/	
	3	/	/			10		/					X	/	
						15	/	/					X	/	
						19		/					X	X	
						32		X					X	/	
						10							/	/	
						10							/		
						14							X	/	
						3							/	/	

SEDIMENT THIN SECTION DATA – *Continued*

	Particulate Components																
	Carbonate													Non-Carbonate			
	Skeletal Particles													Quartz			
	Non-clastic																
Sample Designation[a]	Total (%)	Mollusc	Echinoderm	Coral	Stromatoporoid	Bryozoa	Algae	Foraminifera	Ostracod	Radiolaria	Sponge Spicules	Calcispheres	Others	Total (%)	Straight Extinction	Undulose Extinction	
24 2 1	3							X						40	X	/	
24A 1 1								/						5	/		
24A 2 1	14							/				/					
25A 1	60						X	/				/					
27 7 1, 10 cm												/		6	/		
29 1 1																	
29 19 Core catcher, 5 cm	65							X				/			/		
29C 2 1								/				/					
30 9 1, 5 cm	20							X		X		X		5	/		
30 9 2, 4 cm	20							X		/		/		2	/		
30 10 1, 8 cm	15							/				X					
30 10 2, Top	54							X				/		1	/		
30 10 3, Top	15							X				/		1/2	/		
30 11 Core catcher	25							X				/					
30 12 Core catcher	32							X				X					
30 13 Core catcher	10							X				/		1/2	/		
30 14 1, Top	58							X				X		1/2	/		
30 15 Core catcher	55							X				X			/		
30 16 1, Bottom	55							X				X			/		
31 9 Core catcher	6							/				/					

[a]Hole-Core-Section-Depth in centimeters from top of section.

Particulate Components																
	Non-Carbonate															
	Feldspar				Rock Fragments						Organic					
	Total (%)	Multiple Twinning	Cross-Hatched Twinning	Untwinned or Simple Twins	Total (%)	Quartzrose	Micaceous	Shale	Volcanic	Chert	Total (%)	Radiolaria	Sponge Spicules	Plant Fragments	Diatoms	Others
	1	/	/	/	2	/	/		/							
			/													
											3	X				
											3	/				
					2					/						
											5	X				
											2	/				
		/														
		/														
	5	X			1/2				/			/				
	3	X									1	/				
	4	/		/	1/2				/			/				
												/	/			
		/									8	X				
	1/2	/							/		1	/	/			
	1/2	/									15	X				
		/									10	X				
		/									20	X				
											1	/				

SEDIMENT THIN SECTION DATA – *Continued*

	Particulate Components													
	Non-Carbonate													
	Miscellaneous													
		Mica							Heavy Mineral					
Sample Designation[a]	Total (%)	Colorless	Dark	Phosphate	Glauconite	Pyrite	Manganese	Iron Oxides	Stable	Unstable	Barite or Celestite	Glass	Others	
24 2 1	1	/	/		/			/	/					
24A 1 1								/						
24A 2 1														
25A 1														
27 7 1, 10 cm		/												
29 1 1														
29 19 Core catcher, 5 cm														
29C 2 1														
30 9 1, 5 cm	1				/			/	/					
30 9 2, 4 cm	1				/			/						
30 10 1, 8 cm	5	/	/		X			/	/	X				
30 10 2, Top	4		/		X				/	X				
30 10 3, Top	6		/		X			/		X				
30 11 Core catcher	1				/									
30 12 Core catcher	1	/			/									
30 13 Core catcher	1		/		/			/	/	/				
30 14 1, Top	1				/			/	/					
30 15 Core catcher	15				X			/						
30 16 1, Bottom	1				/			/						
31 9 Core catcher														

[a]Hole-Core-Section-Depth in centimeters from top of section.

	Matrix or Cement																
	Carbonate					Non-Carbonate											
	Calcite		Dolomite			Evaporites				Clays					Silica		
	Micrite (%)	Sparite (%)	Macro - (%)	Micro - (%)	Siderite	Total (%)	Anhydrite	Gypsum	Halite	Total (%)	Kaolinite	Illite-Sericite	Chlorite	Matrix Undiff.	Total (%)	Quartz	Chert
	25	8															
										95				X			
	45																
				23													
	91																
			15	65													
	5	2															
			1	67													
	60																
	47																
	59																
	17																
	61																
	59																
	40																
	55																
	15																
	10																
	10																
	10	90															

SEDIMENT THIN SECTION DATA – *Continued*

Sample Designation[a]	Matrix or Cement								Structures/Textures				
	Non-Carbonate								Fractures				
	Miscellaneous												
	Total (%)	Bitumen	Phosphate	Coal	Pyrite	Mn-Fe Oxides	Zeolites	Others	Silica	Carbonate	Anhydrite	Others	
24 2 1													
24A 1 1													
24A 2 1													
25A 1													
27 7 1, 10 cm													
29 1 1													
29 19 Core catcher, 5 cm													
29C 2 1													
30 9 1, 5 cm													
30 9 2, 4 cm													
30 10 1, 8 cm													
30 10 2, Top													
30 10 3, Top													
30 11 Core catcher													
30 12 Core catcher													
30 13 Core catcher													
30 14 1, Top													
30 15 Core catcher													
30 16 1, Bottom													
31 9 Core catcher													

[a]Hole-Core-Section-Depth in centimeters from top of section.

	Structures/Textures							
	Recrystallized	Stylolites	Graded	Current Bedding	Grain Welding	Brecciation	Bioturbation	Remarks
								Strong orientation of clay minerals
								Heavily stained.
	/							Dolomite obliterates original structures
								Sparite associated with radiolaria
	/							Dolomite obliterates original structures
								Porosity in foraminifera voids (?)
								Porosity in foraminifera voids (?)
								Pyroxene fragments common Glauconite developed in Radiolaria and surrounding matrix.
								Porosity in foraminifera (?)
								Glauconite replacing Radiolaria and surrounding matrix.
								Stained
								Stained
								Porosity in foraminifera voids (?)
								Porosity in foraminifera voids (?)

NB. Staining was only possible on four slides (29C-2-1; 29-1-1; 25A-1; 24A-2-1). Subsequent carbonate identifications are therefore tentative.