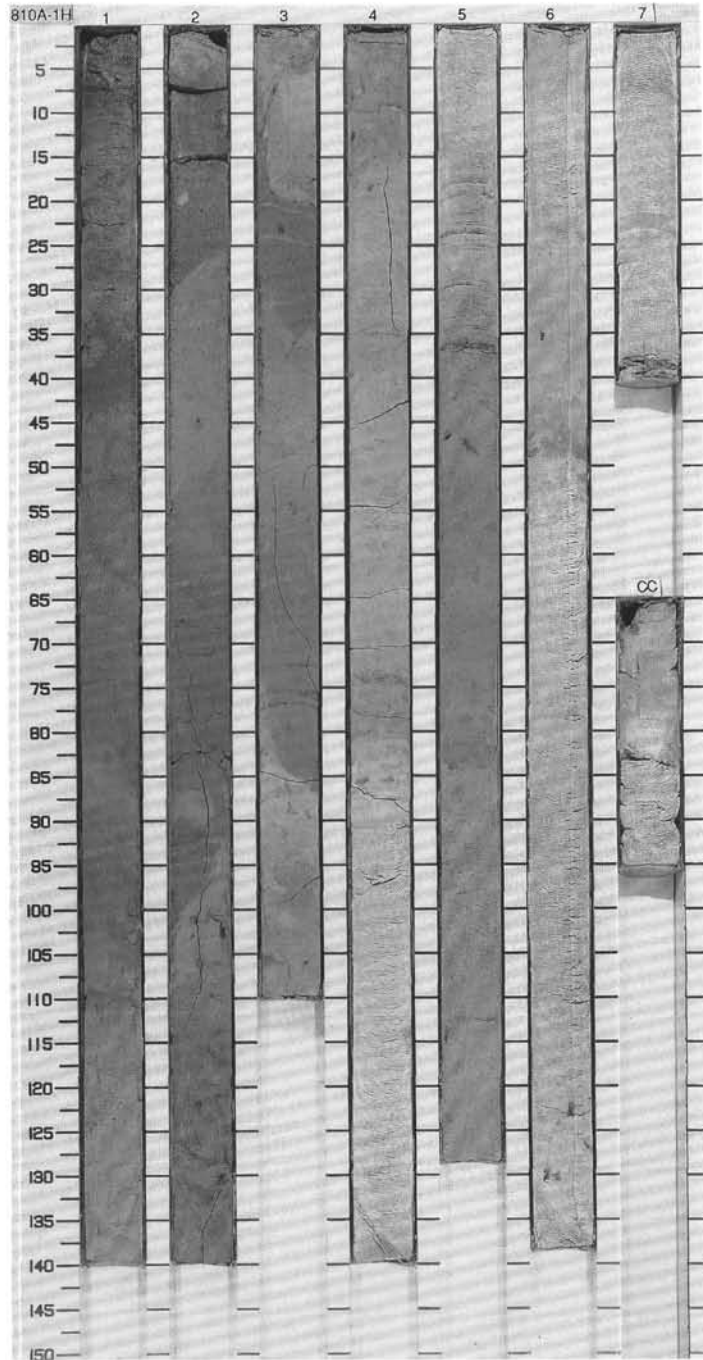


TIME ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																																																
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS																																																																																																																																										
PLEISTOCENE N22 / N23					Φ = 1.56 • γ = 75.6		1	0.5 1.0					* NANNOFOSSIL OOZE * Major lithology: NANNOFOSSIL OOZE, grayish-brown (10YR 5/2), gray (10YR 5/1 to 10YR 6/1), and dark gray (10YR 4/1) in Sections 1 and 2, light gray (5Y 7/1) to white (10YR 8/1) below Section 2. Bioturbation including <i>Planolites</i> and <i>Chondrites</i> types occurs throughout. Bedding planes are preserved in Section 2, 70-83 cm, Section 4, 73-83 cm, and in Section 5, 15-35 cm. High inclination of color interfaces in Section 1 to 3 suggests cut and fill structures. Foraminifers in smear slides appear worn and stained. IW * Minor lithologies: a. Foraminifer ooze occurs in thin layers in Section 2, 64 cm and 68 cm. b. A small gastropod shell occurs in Section 6, 27 cm. c. Bands of purple stain (manganese oxide?) occur in Section 4, 139-140 cm, and Section 7 at 7 and 22 cm. * SMEAR SLIDE SUMMARY (%): <table border="1"> <tr> <td></td> <td>1, 20</td> <td>1, 40</td> <td>1, 60</td> <td>1, 120</td> <td>2, 22</td> <td>2, 50</td> <td>2, 64</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> * TEXTURE: <table border="1"> <tr> <td>Sand</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>25</td> <td>10</td> <td>35</td> </tr> <tr> <td>Silt</td> <td>10</td> <td>20</td> <td>15</td> <td>15</td> <td>8</td> <td>13</td> <td>6</td> </tr> <tr> <td>Clay</td> <td>90</td> <td>80</td> <td>85</td> <td>85</td> <td>67</td> <td>78</td> <td>5</td> </tr> </table> PP IW * COMPOSITION: <table border="1"> <tr> <td>Barite</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>Tr</td> <td>-</td> <td>-</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>-</td> <td>20</td> <td>-</td> <td>5</td> <td>3</td> <td>2</td> </tr> <tr> <td>Diatoms</td> <td>2</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>2</td> <td>-</td> </tr> <tr> <td>Foraminifers</td> <td>5</td> <td>3</td> <td>5</td> <td>5</td> <td>25</td> <td>10</td> <td>35</td> </tr> <tr> <td>Glass</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>1</td> <td>2</td> <td>Tr</td> </tr> <tr> <td>Glauconite</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>Tr</td> <td>-</td> </tr> <tr> <td>Nannofossils</td> <td>80</td> <td>80</td> <td>65</td> <td>85</td> <td>62</td> <td>75</td> <td>57</td> </tr> <tr> <td>Pellets</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>5</td> <td>3</td> </tr> <tr> <td>Quartz</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>Tr</td> <td>-</td> </tr> <tr> <td>Radiolarians</td> <td>3</td> <td>10</td> <td>5</td> <td>5</td> <td>2</td> <td>1</td> <td>2</td> </tr> <tr> <td>Spicules</td> <td>-</td> <td>2</td> <td>-</td> <td>-</td> <td>Tr</td> <td>2</td> <td>1</td> </tr> </table>		1, 20	1, 40	1, 60	1, 120	2, 22	2, 50	2, 64		D	D	D	D	D	D	D	Sand	-	-	-	-	25	10	35	Silt	10	20	15	15	8	13	6	Clay	90	80	85	85	67	78	5	Barite	-	-	-	-	Tr	-	-	Clay	10	-	20	-	5	3	2	Diatoms	2	5	5	5	5	2	-	Foraminifers	5	3	5	5	25	10	35	Glass	-	-	-	-	1	2	Tr	Glauconite	-	-	-	-	-	Tr	-	Nannofossils	80	80	65	85	62	75	57	Pellets	-	-	-	-	-	5	3	Quartz	-	-	-	-	-	Tr	-	Radiolarians	3	10	5	5	2	1	2	Spicules	-	2	-	-	Tr	2	1
		1, 20	1, 40	1, 60	1, 120	2, 22	2, 50	2, 64																																																																																																																																					
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Glass	-	-	-	-	1	2	Tr																																																																																																																																						
Glauconite	-	-	-	-	-	Tr	-																																																																																																																																						
Nannofossils	80	80	65	85	62	75	57																																																																																																																																						
Pellets	-	-	-	-	-	5	3																																																																																																																																						
Quartz	-	-	-	-	-	Tr	-																																																																																																																																						
Radiolarians	3	10	5	5	2	1	2																																																																																																																																						
Spicules	-	2	-	-	Tr	2	1																																																																																																																																						
					Φ = 73.0 • γ = 1.61		2	0.5 1.0																																																																																																																																					
					Φ = 76.7 • γ = 1.56		3	0.5 1.0																																																																																																																																					
					Φ = 70.1 • γ = 1.63		4	0.5 1.0																																																																																																																																					
							5	0.5 1.0																																																																																																																																					
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							7	0.5 1.0																																																																																																																																					
AM							CC						cont.																																																																																																																																



SITE 810 HOLE A CORE 1H CORED INTERVAL 0.0 - 9.5 mbsf

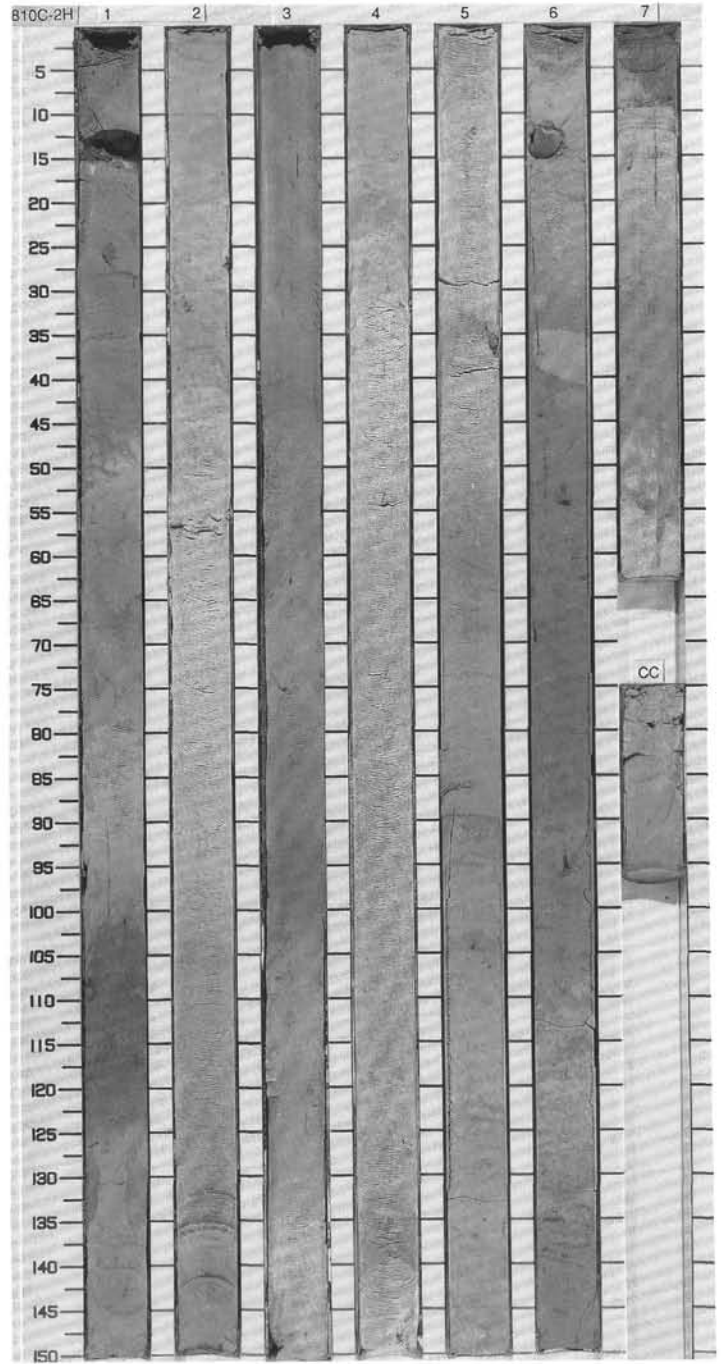
TIME ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
									0.5					(cont.)
									1					SMEAR SLIDE SUMMARY (%):
									1.0					2, 118 3, 8 3, 30 3, 60 3, 90 4, 110 5, 5
														D D D D D D D
														TEXTURE:
									0.5					Sand 20 - - - - - -
									1.0					Silt 50 5 10 9 5 10 10
									2					Clay 30 95 90 91 95 90 90
														COMPOSITION:
									0.5					Barite Tr - - - - -
									1.0					Clay - 10 5 - - - -
														Diatoms 1 Tr - 1 1 2 1
														Foraminifers 30 3 10 6 2 5 5
														Glass 4 - - - - 2 -
									0.5					Nannofossils 62 85 85 91 95 89 90
									1.0					Pellets 2 - - - 1 - -
														Plant - - - - - Tr -
														Quartz Tr - - - - -
														Radiolarians 1 2 - 1 1 1 3
														Silicoflagellates - - - - - Tr -
														Spicules Tr - - 1 - 1 1
									0.5					SMEAR SLIDE SUMMARY (%):
									4					5, 35 6, 30 6, 100 6, 127 7, 7 7, 20 CC, 20
									1.0					D D D M M D D
														TEXTURE:
									0.5					Sand 10 - - 70 - - -
									1.0					Silt 10 23 13 19 10 5 10
									5					Clay 80 77 87 11 90 95 90
														COMPOSITION:
									0.5					Clay 1 - - - - -
									1.0					Diatoms - 1 2 1 - - 2
														Foraminifers 7 5 3 5 5 3 5
														Glass - 1 Tr - 2 - 2
									0.5					Nannofossils 80 77 87 21 90 95 90
									1.0					Opaques - - - 70 - - -
														Pellets 10 15 5 2 - - 1
														Quartz - - - 1 - - -
									0.5					Radiolarians 2 1 1 - 3 2 Tr
									1.0					Silicoflagellates - Tr Tr - - - Tr
									7					Spicules - - 2 - - - Tr

cont.

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS								
							0.5 1 1.0				(cont.) SMEAR SLIDE SUMMARY (%):  CC, 30 D
							0.5 1 1.0				TEXTURE:  Silt 9 Clay 91
							0.5 1 1.0				COMPOSITION:  Clay 2 Foraminifers 3 Glass 2 Nannofossils 89 Pellets 1 Quartz Tr Radiolarians 1 Spicules 1
							0.5 1 1.0				
							0.5 1 1.0				
							0.5 1 1.0				
							0.5 1 1.0				
							0.5 1 1.0				



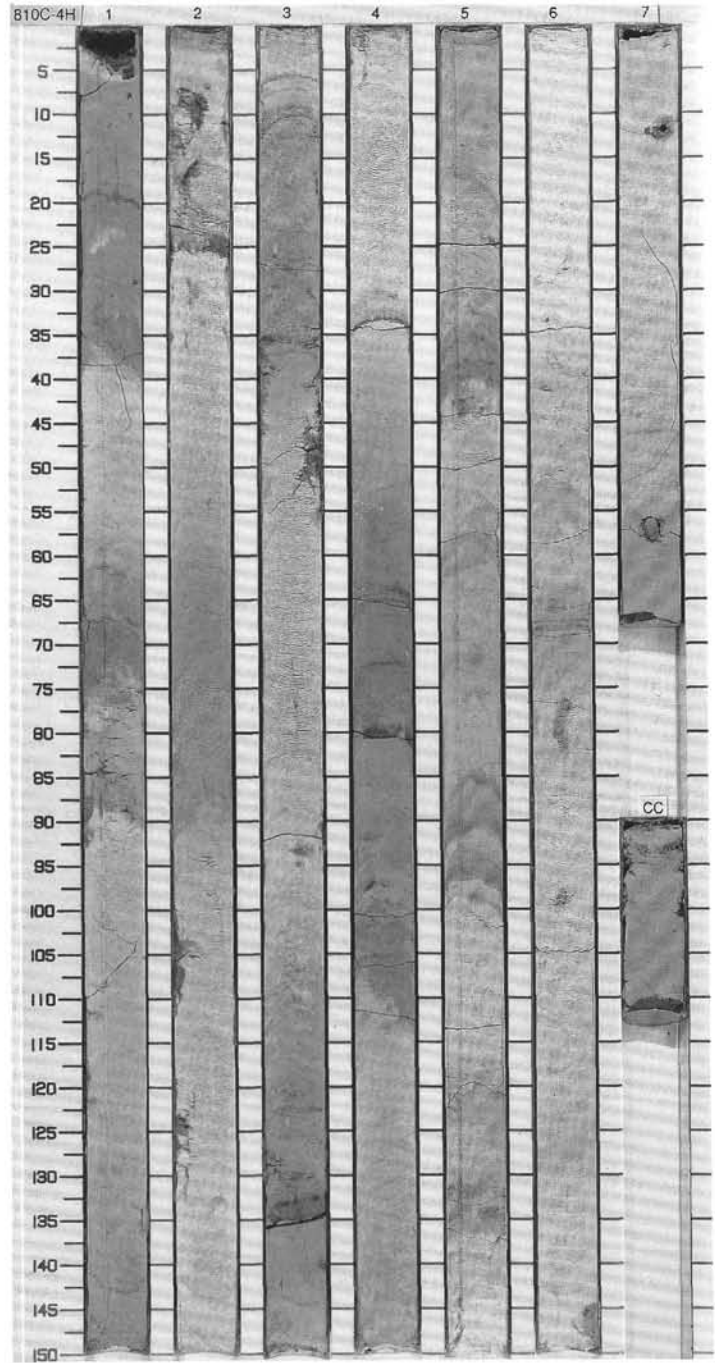
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																	
	FORAMINIFERS	NANNOFOSSILS	RADIOLIARIANS											DIATOMS																
PLEISTOCENE N22							1	0.5				*	NANNOFOSSIL OOZE																	
					φ=62.2 γ=1.43	CaCO <sub>3</sub> = 45.9%		1.0				*	Major lithology: This core contains NANNOFOSSIL OOZE. The ooze is gray (5 Y 6/1) and greenish gray (5 BG 6/1) in Section 1, becoming white (2.5 Y 8/0) to light greenish gray (10 Y 7/1) in Sections 2 to 4. Sections 5 to Core Catcher are light gray (5 Y 7/1) to gray (5 Y 6/1). Bioturbation occurs throughout and includes <i>Chondrites</i> and <i>Planolites</i> trace fossils. Preserved bedding planes occur in Section 1, 27-36 cm and 135-140 cm, and in Section 5, 33-40 cm and 89-100 cm. A color contact near the top of Section 7 is highly inclined, suggesting cut and fill structure.																	
					φ=76.5 γ=1.53		2	0.5				*	Minor lithology: Bands of purple stain occur in Sections 1, 5 and 7. A band of green stain associated with a high pellet content in the ooze occurs in Section 7, at 10 cm. A large rounded pumice pebble occurs in Section 6, 12-15 cm.																	
					φ=79.2 γ=1.55	CaCO <sub>3</sub> = 80.3%		1.0						SMEAR SLIDE SUMMARY (%):																
														<table border="1"> <tr> <td></td> <td>1, 30</td> <td>1, 90</td> <td>2, 60</td> <td>3, 40</td> <td>3, 125</td> <td>4, 10</td> <td>4, 80</td> </tr> <tr> <td></td> <td>M</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table>		1, 30	1, 90	2, 60	3, 40	3, 125	4, 10	4, 80		M	D	D	D	D	D	D
		1, 30	1, 90	2, 60	3, 40	3, 125	4, 10	4, 80																						
		M	D	D	D	D	D	D																						
														TEXTURE:																
						φ=76.9 γ=1.52	CaCO <sub>3</sub> = 56.0%	3	0.5				*	Silt																
														Clay																
						φ=70.3 γ=1.61			1.0					COMPOSITION:																
												*	Barite																	
												*	Diatoms																	
												*	Foraminifers																	
											*	Glass																		
											*	Glauconite																		
											*	Nannofossils																		
											*	Pellets																		
					φ=70.0 γ=1.63	CaCO <sub>3</sub> = 75.7%	4	0.5				*	Quartz																	
											*	Radiolarians																		
											*	Silicoflagellates																		
											*	Spicules																		
					φ=71.9 γ=1.56	CaCO <sub>3</sub> = 66.1%	5	0.5				*	SMEAR SLIDE SUMMARY (%):																	
													<table border="1"> <tr> <td></td> <td>5, 10</td> <td>5, 87</td> <td>5, 140</td> <td>6, 145</td> <td>7, 10</td> <td>7, 40</td> </tr> <tr> <td></td> <td>D</td> <td>M</td> <td>D</td> <td>D</td> <td>M</td> <td>D</td> </tr> </table>		5, 10	5, 87	5, 140	6, 145	7, 10	7, 40		D	M	D	D	M	D			
	5, 10	5, 87	5, 140	6, 145	7, 10	7, 40																								
	D	M	D	D	M	D																								
													TEXTURE:																	
											*	Sand																		
											*	Silt																		
											*	Clay																		
													COMPOSITION:																	
											*	Barite																		
											*	Clay																		
											*	Diatoms																		
											*	Foraminifers																		
											*	Glass																		
											*	Nannofossils																		
											*	Pellets																		
											*	Quartz																		
											*	Radiolarians																		
											*	Silicoflagellates																		
											*	Spicules																		
					φ=74.3 γ=1.55	CaCO <sub>3</sub> = 82.3%	6	0.5				*	Barite																	
											*	Clay																		
											*	Diatoms																		
											*	Foraminifers																		
											*	Glass																		
											*	Nannofossils																		
											*	Pellets																		
											*	Quartz																		
											*	Radiolarians																		
											*	Silicoflagellates																		
											*	Spicules																		
					φ=74.5 γ=1.62	CaCO <sub>3</sub> = 87.7%	7	0.5				*	Barite																	
											*	Clay																		
											*	Diatoms																		
											*	Foraminifers																		
											*	Glass																		
											*	Nannofossils																		
											*	Pellets																		
											*	Quartz																		
											*	Radiolarians																		
											*	Silicoflagellates																		
											*	Spicules																		
							CC																							





TIME ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS									DIATOMS															
							0.5 1.0				(cont.) SMEAR SLIDE SUMMARY (%):  <table border="1"> <tr> <td></td> <td>4, 120</td> <td>5, 70</td> <td>6, 60</td> <td>6, 90</td> <td>7, 35</td> <td>7, 60</td> <td>CC, 4</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>M</td> </tr> </table> TEXTURE: Sand            10    -    10    -    -    -    100 Silt            30   10   60   20   5   10   - Clay           60   90   30   80   95   90   -  COMPOSITION:  Calcite        -    -    -    -    -    -    100 Clay            -    -    -    -    -    -    - Diatoms        1    -    -    2    -    -    - Foraminifers   10   8   30   5   5   8   - Glass           -    -    1   Tr   -   -   - Nannofossils   66   90   37   81   95   90   - Pellets        20   -   30   10   -   -   - Quartz        Tr   -   -   -   -   -   - Radiolarians   2   2   -   1   -   2   - Silicoflagellates 1   -   -   -   -   -   - Spicules       Tr   -   2   1   -   -   -		4, 120	5, 70	6, 60	6, 90	7, 35	7, 60	CC, 4		D	D	D	D	D	D	M
	4, 120	5, 70	6, 60	6, 90	7, 35	7, 60	CC, 4																				
	D	D	D	D	D	D	M																				
							0.5 1.0																				
							0.5 1.0																				
							0.5 1.0																				
							0.5 1.0																				
							0.5 1.0																				
							0.5 1.0																				

SITe 810		HOLE C		CORE 4H		CORED INTERVAL 21.4 - 30.9 mbsf						
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS									
UPPER PLOCENE												
N21												
AP												
					φ = 68.8 γ = 1.65		1	0.5			*	NANNOFOSSIL OOZE
					φ = 70.2 γ = 1.64		1	1.0			*	Major lithology: NANNOFOSSIL OOZE, gray (10YR 5/1), light gray (5Y 7/1) to white (2.5Y 8/1, 5Y 8/1) dominant. Lighter and darker parts alternate in 40 to 100 cm thick units with gradual interfaces. Bioturbation occurs throughout, burrows commonly filled with dark gray pyrite-rich sediment or foraminifer silty-sand. Soupy drilling disturbance along the edge of the core in Section 3, 45-50 and 95 cm. Green color bands associated with high pellet concentrations in smear slides occur in Section 3, 6-10, 82-90, 98-102, and 149-150 cm, and Section 5, 91 and 140 cm. Purple stain bands (manganese?) occur in Section 5, 18 and 86 cm. Small purple streaks, probably manganese stain smeared by the core-splitter are common throughout.
					φ = 69.4 γ = 1.65		2	0.5			*	Minor lithologies:
					φ = 69.6 γ = 1.61		2	1.0			*	a. Volcanic ash layers in Section 1, 4-6 cm, Section 2, 26 cm, Section 3, 134 cm, and Section 4, 82 cm.
					φ = 68.8 γ = 1.64		3	0.5			*	b. Rounded pumice pebbles in Section 1, 8 and 29 cm, Section 5, 98 cm, and Section 7, 57 cm.
					φ = 71.4 γ = 1.59		3	1.0			*	SMEAR SLIDE SUMMARY (%):
					φ = 69.9 γ = 1.63		5	0.5			*	1, 4    1, 110 2, 26    2, 70    2, 110 3, 10    3, 134
					φ = 71.1 γ = 1.61		5	1.0			*	M    D    M    D    D    D    M
					φ = 66.8 γ = 1.67		6	0.5			*	TEXTURE:
					φ = 67.9 γ = 1.66		7	0.5			*	Sand    90    10    -    -    -    5    10
							7	1.0			*	Silt    10    40    95    5    4    90    90
							7	CC			*	Clay    -    50    5    95    96    5    -
											*	COMPOSITION:
											*	Barite    -    -    -    2    -    -    -
											*	Clay    -    -    -    -    -    -    -
											*	Diatoms    -    1    -    -    -    -    -
											*	Feldspar    -    -    5    -    -    -    -
											*	Foraminifers    -    -    25    -    3    3    10    2
											*	Glass    95    1    90    -    1    5    90
											*	Nannofossils    -    50    5    95    96    25    5
											*	Opales    5    -    -    -    -    -    3
											*	Pellets    -    20    -    -    -    60    -
											*	Quartz    Tr    -    -    -    -    -    -
											*	Radiolarians    -    2    -    -    -    -    -
											*	Silicoflagellates    -    -    -    -    -    -    -
											*	Spicules    -    1    -    -    -    -    -



cont.



TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS							
						0.5				(cont.)
						1				SMEAR SLIDE SUMMARY (%):
						1.0				4, 25    4, 55    4, 82    4, 122    5, 39    5, 70    6, 66
										D    D    M    D    M    D    M
										TEXTURE:
						0.5				Sand                    —    —    —    —    20    2    —
						1.0				Silt                    12    20    55    5    40    18    40
						2				Clay                    88    80    45    95    40    80    40
										COMPOSITION:
						0.5				Barite                    2    5    —    —    10    —    —
						1.0				Diatoms                    —    —    —    —    1    1    —
										Foraminifers            5    5    5    5    34    2    5
						0.5				Glass                    5    10    50    —    3    1    —
						1.0				Nannofossils            88    80    45    95    40    88    60
						3				Pellets                    —    —    —    —    10    5    35
						0.5				Radiolarians            —    —    —    —    1    1    —
						1.0				Silicoflagellates        —    —    —    —    1    2    —
										Spicules                    —    —    —    —    Tr    Tr    —
										SMEAR SLIDE SUMMARY (%):
						0.5				6, 78    6, 90    7, 11    7, 44
						1.0				M    D    M    D
						4				TEXTURE:
						0.5				Sand                    20    —    —    2
						1.0				Silt                    30    20    20    18
						5				Clay                    50    80    80    80
										COMPOSITION:
						0.5				Barite                    —    —    —    1
						1.0				Diatoms                    —    —    1    1
						0.5				Foraminifers            45    10    5    5
						1.0				Glass                    5    —    Tr    Tr
						0.5				Nannofossils            50    80    83    89
						1.0				Pellets                    —    10    —    2
						6				Radiolarians            —    —    1    1
						0.5				Silicoflagellates        —    —    2    Tr
						1.0				Spicules                    —    —    2    1
						7				Sulfide                    —    —    5    —



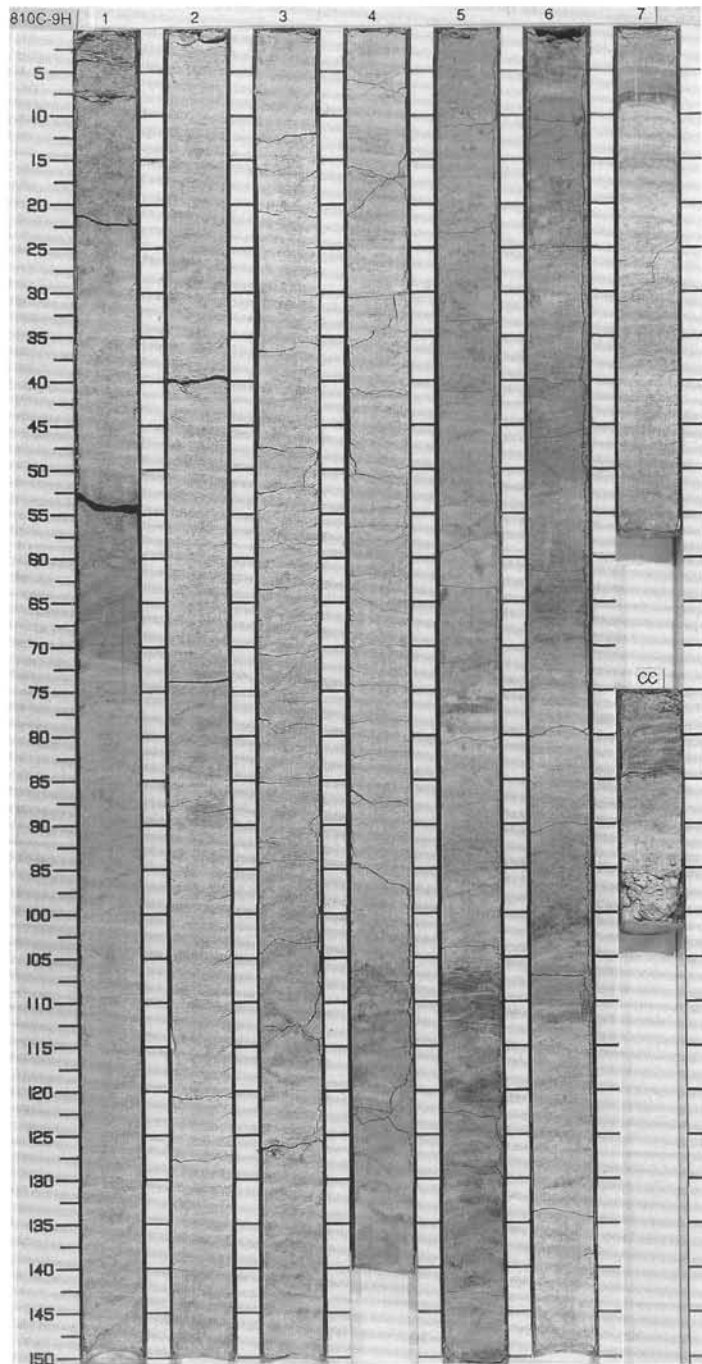
TIME ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS									
								0.5 1.0				(cont.) SMEAR SLIDE SUMMARY (%):  3, 100 4, 78 4, 147 5, 30 5, 64 5, 120 6, 73 D D M D M D M
								0.5 1.0				TEXTURE:  Sand - 5 5 - - - 2 Silt 15 90 95 10 100 30 95 Clay 85 5 - 90 - 70 3
								0.5 1.0				COMPOSITION:  Barite 5 Tr Tr 5 - 1 - Clay - 1 - - - - - Diatoms - 1 - - - - - Feldspar - - - - 2 - - Foraminifers - 16 5 - - 5 2 Glass - Tr 40 - 80 20 - Nannofossils 85 70 23 90 - 70 56 Pellets - 10 30 - 15 - 2 Pyrite - - - - 3 - 40 Quartz - - - - - - - Radiolarians 10 2 2 5 - 4 Tr Spicules - 1 - - - - -
								0.5 1.0				SMEAR SLIDE SUMMARY (%):  6, 100 7, 30 D D
								0.5 1.0				TEXTURE:  Sand 1 - Silt 49 10 Clay 50 90
								0.5 1.0				COMPOSITION:  Barite - 2 Foraminifers 2 5 Glass 2 1 Nannofossils 94 90 Pellets 1 - Radiolarians 1 2
								0.5 1.0				
								0.5 1.0				







TIME ROCK UNIT	BIOSTRAT ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
LOWER PIOCENE N19	FP					CaCO <sub>3</sub> = 80.1% = 80.1%		0.0-0.5	↑↑↑↑↑	✓	SS		NANNOFOSSIL OOZE
								0.5-1.0	↑↑↑↑↑		S	* Major lithology: NANNOFOSSIL OOZE, mostly nannofossils with minor amounts of discoasters and fragmented foraminifers and radiolarians, light gray (5Y 8/1 to 5Y7/2) with minor clay content (up to 40% in patches), burrowed ( <i>Chondrites</i> and <i>Planolites</i> ), sparse purple to black stains, traces of barite.	
								1.0-1.5	↑↑↑↑↑		S	* Minor lithology: Clayey NANNOFOSSIL OOZE, gray (7.5YR 7/2), 25 to 40% clay, burrowed ( <i>Zoophycus</i> , <i>Planolites</i> ) throughout, rhythmically alternating with purer NANNOFOSSIL OOZE in Section 6, traces of barite.	
								1.5-2.0	↑↑↑↑↑		S	SMEAR SLIDE SUMMARY (%):	
								2.0-2.5	↑↑↑↑↑		S	* 1, 54 1, 66 1, 120 2, 80 2, 110 3, 16 3, 50 M D D D D M D	
								2.5-3.0	↑↑↑↑↑		S	* TEXTURE:	
								3.0-3.5	↑↑↑↑↑		S	* Silt 98 10 10 4 5 5 10 Clay 2 90 90 96 95 95 90	
								3.5-4.0	↑↑↑↑↑		S	* COMPOSITION:	
								4.0-4.5	↑↑↑↑↑		S	Barite - - Tr 2 2 - - Clay - 20 15 - - 60 30 Diatoms - Tr 1 - - Tr Tr Discoaster - - - - 5 - - Foraminifers Tr - Tr - 2 - - Glass 98 5 - 2 - Tr 5 Nannofossils 2 75 84 96 95 40 65 Opagues - - Tr - - - - Quartz Tr Tr Tr - - Tr Tr Radiolarians - Tr Tr - 1 Tr Tr Siliceous sponge spicules - Tr Tr - - Tr Tr	
								4.5-5.0	↑↑↑↑↑		S	* SMEAR SLIDE SUMMARY (%):	
								5.0-5.5	↑↑↑↑↑		S	* 4, 70 4, 130 5, 20 5, 105 5, 112 6, 10 6, 65 D D D D D D D	
								5.5-6.0	↑↑↑↑↑		S	* TEXTURE:	
								6.0-6.5	↑↑↑↑↑		S	* Silt 4 20 10 5 15 12 20 Clay 96 80 90 95 85 88 80	
								6.5-7.0	↑↑↑↑↑		S	* COMPOSITION:	
7.0-7.5	↑↑↑↑↑		S	Barite 1 5 Tr - Tr 5 2 Clay - 25 25 20 20 - 5 Diatoms - - Tr - - - - Discoaster - 5 - - - 5 10 Foraminifers 1 - - Tr Tr - 1 Glass - 5 2 1 5 - - Nannofossils 96 58 75 79 80 88 80 Opagues - - - - 5 - - Pellets - - - - 3 - - Quartz - - Tr Tr - - Tr Radiolarians - 2 1 Tr Tr 2 2 Siliceous sponge spicules - - - Tr Tr - -									
7.5-8.0	↑↑↑↑↑		S	* CC									



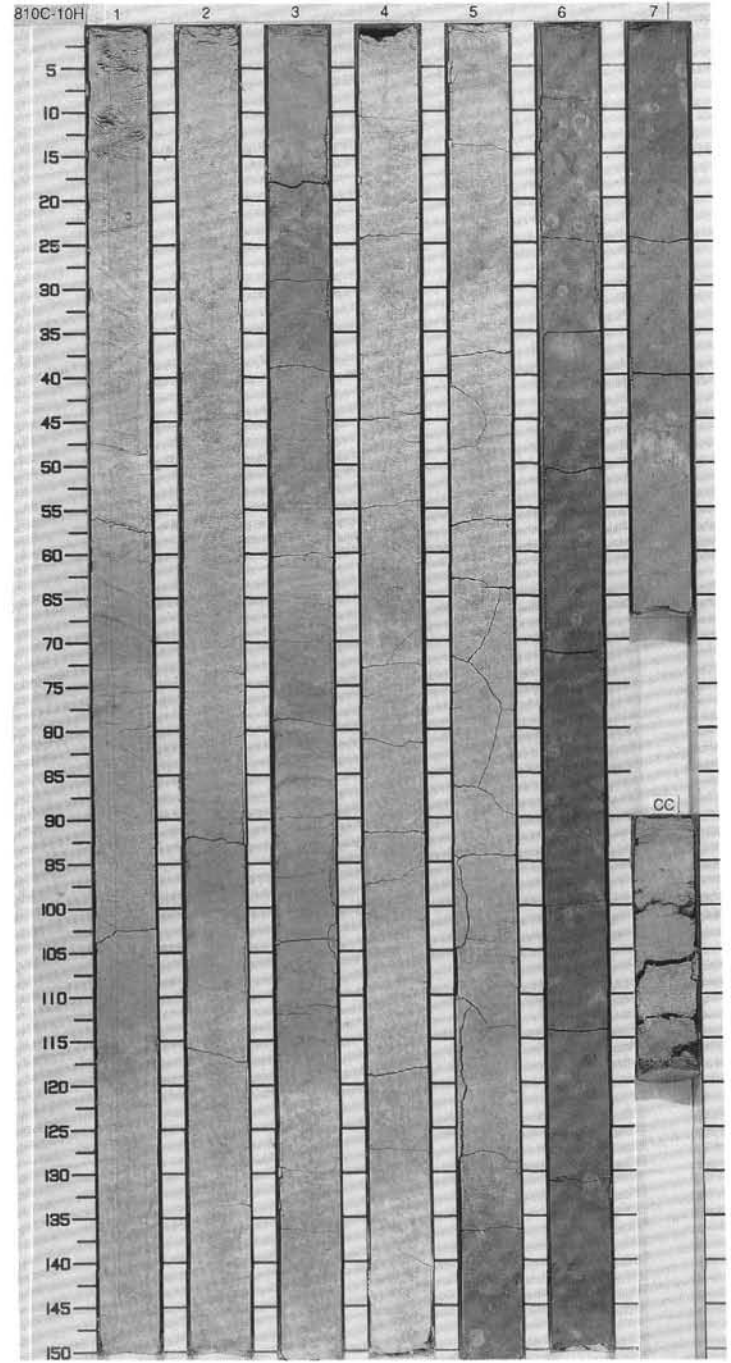
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SITE 810 HOLE C CORE 9H CORED INTERVAL 68.9 - 78.4 mbsf

TIME ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
								0.5 1.0					(cont.) SMEAR SLIDE SUMMARY (%):  6, 90 6, 140 7, 8 7, 40 CC, 20 D D M D D
								0.5 1.0					TEXTURE:  Silt 7 1 70 47 1 Clay 93 99 30 53 99
								0.5 1.0					COMPOSITION:  Barite 1 1 - Tr 1 Clay - 40 10 20 49 Diatoms - - - Tr - Discoaster 5 - - - - Foraminifers - - - Tr - Glass 1 - 5 2 - Nannofossils 93 59 73 73 50 Opauques - - 10 - - Pellets ----- 2 5 - - Quartz - Tr - - Tr Radiolarians - - - Tr -
								0.5 1.0					
								0.5 1.0					
								0.5 1.0					
								0.5 1.0					
								0.5 1.0					



TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																																																																																																																				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS											DIATOMS																																																																																																																																																																																																			
LOWER PLIOCENE N19								0.5					<p>NANNOFOSSIL OOZE</p> <p>* Major lithology: NANNOFOSSIL OOZE, mostly nannofossils with sparse discoasters and minor to trace amounts of fragmented foraminifers, diatoms and radiolarians, pale tan (10YR 8/2), abundant burrows (<i>Chondrites</i>, <i>Planolites</i>, <i>Thalassinoides</i>).</p> <p>Minor lithology: CALCAREOUS CLAY, 70% clay mixed with nannofossils and sparse discoasters, tan (10YR 7/2), in rhythmically alternating bands in Section 3.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 50</td> <td>2, 10</td> <td>3, 30</td> <td>3, 130</td> <td>4, 10</td> <td>5, 27</td> <td>5, 60</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>M</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Silt</td> <td>7</td> <td>17</td> <td>10</td> <td>2</td> <td>30</td> <td>6</td> <td>7</td> </tr> <tr> <td>Clay</td> <td>93</td> <td>83</td> <td>90</td> <td>98</td> <td>70</td> <td>94</td> <td>93</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Barite</td> <td>2</td> <td>Tr</td> <td>2</td> <td>2</td> <td>1</td> <td>-</td> <td>2</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>25</td> <td>72</td> <td>5</td> <td>10</td> <td>5</td> <td>5</td> </tr> <tr> <td>Discoaster</td> <td>3</td> <td>-</td> <td>5</td> <td>-</td> <td>-</td> <td>2</td> <td>1</td> </tr> <tr> <td>Feldspar</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Foraminifers</td> <td>1</td> <td>2</td> <td>-</td> <td>-</td> <td>Tr</td> <td>2</td> <td>2</td> </tr> <tr> <td>Glass</td> <td>-</td> <td>-</td> <td>1</td> <td>-</td> <td>1</td> <td>-</td> <td>-</td> </tr> <tr> <td>Nannofossils</td> <td>73</td> <td>73</td> <td>20</td> <td>93</td> <td>88</td> <td>89</td> <td>89</td> </tr> <tr> <td>Quartz</td> <td>-</td> <td>Tr</td> <td>-</td> <td>-</td> <td>Tr</td> <td>-</td> <td>-</td> </tr> <tr> <td>Radiolarians</td> <td>1</td> <td>Tr</td> <td>-</td> <td>-</td> <td>Tr</td> <td>1</td> <td>1</td> </tr> <tr> <td>Siliceous sponge spicules</td> <td>-</td> <td>Tr</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </table> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>5, 140</td> <td>6, 22</td> <td>6, 83</td> <td>7, 20</td> <td>7, 50</td> </tr> <tr> <td></td> <td>D</td> <td>M</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Silt</td> <td>5</td> <td>23</td> <td>44</td> <td>15</td> <td>6</td> </tr> <tr> <td>Clay</td> <td>95</td> <td>77</td> <td>56</td> <td>85</td> <td>94</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Barite</td> <td>1</td> <td>Tr</td> <td>1</td> <td>5</td> <td>1</td> </tr> <tr> <td>Clay</td> <td>60</td> <td>10</td> <td>49</td> <td>70</td> <td>60</td> </tr> <tr> <td>Discoaster</td> <td>2</td> <td>-</td> <td>-</td> <td>5</td> <td>3</td> </tr> <tr> <td>Foraminifers</td> <td>1</td> <td>1</td> <td>Tr</td> <td>Tr</td> <td>2</td> </tr> <tr> <td>Glass</td> <td>-</td> <td>2</td> <td>2</td> <td>-</td> <td>-</td> </tr> <tr> <td>Nannofossils</td> <td>35</td> <td>87</td> <td>56</td> <td>15</td> <td>34</td> </tr> <tr> <td>Pyrite</td> <td>-</td> <td>-</td> <td>1</td> <td>Tr</td> <td>-</td> </tr> <tr> <td>Quartz</td> <td>-</td> <td>-</td> <td>Tr</td> <td>-</td> <td>-</td> </tr> <tr> <td>Radiolarians</td> <td>1</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>-</td> </tr> <tr> <td>Siliceous sponge spicules</td> <td>-</td> <td>Tr</td> <td>Tr</td> <td>-</td> <td>-</td> </tr> </table>		1, 50	2, 10	3, 30	3, 130	4, 10	5, 27	5, 60		D	D	D	D	D	M	D	Silt	7	17	10	2	30	6	7	Clay	93	83	90	98	70	94	93	Barite	2	Tr	2	2	1	-	2	Clay	20	25	72	5	10	5	5	Discoaster	3	-	5	-	-	2	1	Feldspar	-	-	-	-	-	-	-	Foraminifers	1	2	-	-	Tr	2	2	Glass	-	-	1	-	1	-	-	Nannofossils	73	73	20	93	88	89	89	Quartz	-	Tr	-	-	Tr	-	-	Radiolarians	1	Tr	-	-	Tr	1	1	Siliceous sponge spicules	-	Tr	-	-	-	-	-		5, 140	6, 22	6, 83	7, 20	7, 50		D	M	D	D	D	Silt	5	23	44	15	6	Clay	95	77	56	85	94	Barite	1	Tr	1	5	1	Clay	60	10	49	70	60	Discoaster	2	-	-	5	3	Foraminifers	1	1	Tr	Tr	2	Glass	-	2	2	-	-	Nannofossils	35	87	56	15	34	Pyrite	-	-	1	Tr	-	Quartz	-	-	Tr	-	-	Radiolarians	1	Tr	Tr	Tr	-	Siliceous sponge spicules	-	Tr	Tr	-	-
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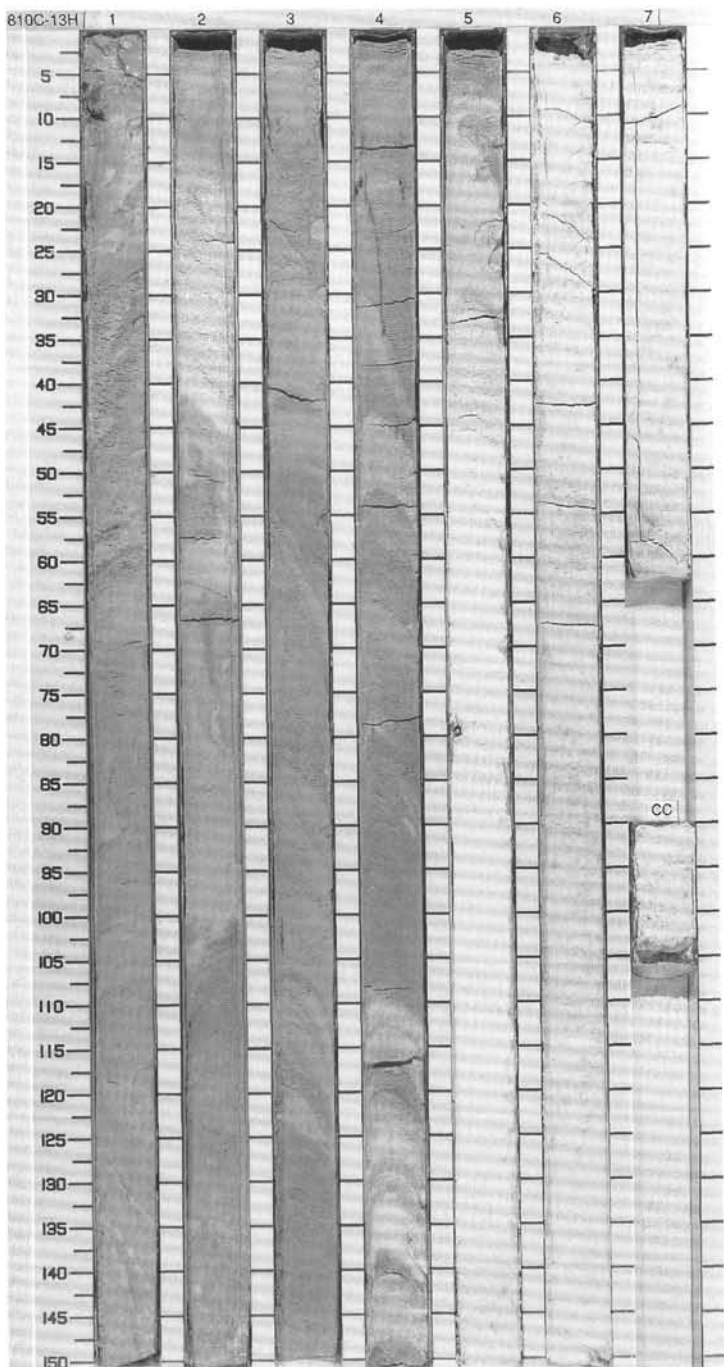


SITE 810 HOLE C CORE 11H CORED INTERVAL 87.9-97.4 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION	
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS											
UPPER ? MIOCENE Younger than N13									0.5					CLAYEY NANNOFOSSIL OOZE	
									1.0				*	Major lithology: CLAYEY NANNOFOSSIL OOZE, nannofossils with discoasters and traces of foraminifers, mixed with varying proportions of clay, traces of barite, tan (10YR 7/2), burrowed by <i>Planolites</i> , <i>Chondrites</i> , <i>Thalassinoides</i> and <i>Trichichnus</i> (?), rhythmically alternating with brown clay in Section 6.	
									0.5				*	Minor lithology: Calcareous clay, >50% clay mixed with nannofossil ooze, brown (10YR 5/3).	
									1.0				*	SMEAR SLIDE SUMMARY (%):	
									0.5						1, 70 D
									1.0						1, 140 D
									0.5						2, 70 D
								1.0						2, 100 D	
								0.5						4, 70 D	
								1.0						5, 70 D	
								0.5						6, 20 D	
								1.0							
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TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																																										
UPPER ? MIOCENE					● = 65.6 ○ = 1.70			0.5					*	NANNOFOSSIL OOZE																																																																
					● = 65.9 ○ = 1.70			1.0					*	Major lithology: NANNOFOSSIL OOZE, nannofossils with up to 20% clay, large coccoliths in abundance, minor amounts of discoasters and traces of barite and fragmented foraminifers, pale tan (10YR 8/2), burrowed throughout by <i>Planolites</i> , <i>Chondrites</i> and <i>Trichichnus</i> (?).																																																																
UPPER LOWER EOCENE	P8 / P9				● = 55.4 ○ = 1.86			0.5					*	Minor lithology: Calcareous clay, 50% clay with nannofossils and sparse discoasters and fragmented foraminifers, brown (10YR 6/2), burrowed throughout and bounded below by a 25 cm void with liquified sediment.																																																																
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TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																
	FORAMINIFERS	NANNOFOSSILS	RADICULARIANS											DIATOMS															
LOWER EOCENE	PB				● 55.7 ● 1.84		1	0.5	[Pattern]	[Symbol]	*	NANNOFOSSIL OOZE	Major lithology: NANNOFOSSIL OOZE, very pure nannofossil ooze with large coccolith plates, minor foraminifers, minor clay and traces of quartz, pyrite and barite, pale tan (10YR 8/2) to cream and white in lower half, discoasters absent below Section 1, burrowed throughout, soft sediment deformation structures in Sections 1 and 2. SMEAR SLIDE SUMMARY (%): <table border="1"> <tr> <td></td> <td>1, 54</td> <td>1, 100</td> <td>2, 30</td> <td>2, 120</td> <td>3, 93</td> <td>3, 138</td> <td>4, 100</td> </tr> <tr> <td></td> <td>M</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table>		1, 54	1, 100	2, 30	2, 120	3, 93	3, 138	4, 100		M	D	D	D	D	D	D
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UPPER PALEOCENE	AM	CG			● 59.5 ● 1.77		2	0.5	[Pattern]	[Symbol]	*	TEXTURE: Silt 35 70 40 25 40 10 20 Clay 65 30 60 75 60 90 80																	
								1.0					[Symbol]	COMPOSITION: Barite - - - Tr - - Tr Clay - - - 20 8 - - 10 Foraminifers 5 2 Tr 2 20 25 Tr Glass Tr - - - 1 - - Nannofossils 90 98 80 90 80 75 90 Opauques 5 - - - - Tr - Quartz - Tr - - Tr Tr -															
					● 59.9 ● 1.81		3	0.5	[Pattern]	[Symbol]	*	SMEAR SLIDE SUMMARY (%): <table border="1"> <tr> <td></td> <td>4, 110</td> <td>5, 20</td> <td>5, 40</td> <td>5, 100</td> <td>5, 145</td> <td>6, 306</td> <td>42</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>M</td> </tr> </table>				4, 110	5, 20	5, 40	5, 100	5, 145	6, 306	42		D	D	D	D	D	D
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	D	D	D	D	D	D	M																						
					● 60.6 ● 1.77		4	0.5	[Pattern]	[Symbol]	*	TEXTURE: Silt 20 5 5 1 3 10 20 Clay 80 95 95 99 97 90 80																	
								1.0					[Symbol]	COMPOSITION: Barite - Tr - - - Tr Tr Clay 10 - - - - 15 5 Foraminifers 2 5 3 1 3 1 2 Glass - Tr 2 Tr Tr - - Nannofossils 88 95 95 99 97 84 93 Quartz Tr - - - - - Tr															
LOWER MAESTRICHTIAN	AM	E.P. P2 P3a AM AM	AM AM AM		● 60.1 ● 1.81		5	0.5	[Pattern]	[Symbol]	*	SMEAR SLIDE SUMMARY (%): <table border="1"> <tr> <td></td> <td>7, 42</td> <td>CC, 10</td> </tr> <tr> <td></td> <td>M</td> <td>M</td> </tr> </table>				7, 42	CC, 10		M	M									
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					● 60.6 ● 1.77		6	0.5	[Pattern]	[Symbol]	*	TEXTURE: Silt 2 20 Clay 98 80																	
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TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																								
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LOWER MAESTRICHTIAN KS 29								0.5						<p>NANNOFOSSIL OOZE</p> <p>Major lithology: NANNOFOSSIL OOZE, very pure nannofossil ooze with large coccolith plates, minor foraminifers, minor clay and traces of quartz, glass and barite, pale tan (10YR B/2) to cream and white, burrowed throughout.</p> <p>Minor lithology: Chert, a dark yellowish brown nodule (in Section 3, 85 cm) 5 cm in diameter, contains mm-scale laminations.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 70</td> <td>1, 135</td> <td>2, 30</td> <td>2, 100</td> <td>3, 120</td> <td>4, 70</td> <td>5, 100</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Silt</td> <td>8</td> <td>60</td> <td>30</td> <td>—</td> <td>80</td> <td>10</td> <td>80</td> </tr> <tr> <td>Clay</td> <td>92</td> <td>40</td> <td>70</td> <td>100</td> <td>20</td> <td>90</td> <td>20</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Barite</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>—</td> <td>10</td> <td>—</td> <td>—</td> <td>5</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>8</td> <td>1</td> <td>5</td> <td>—</td> <td>2</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Glass</td> <td>Tr</td> <td>—</td> <td>Tr</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>92</td> <td>99</td> <td>85</td> <td>100</td> <td>98</td> <td>95</td> <td>100</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </table> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>6, 40</td> <td>6, 100</td> <td>7, 50</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Silt</td> <td>20</td> <td>80</td> <td>80</td> </tr> <tr> <td>Clay</td> <td>80</td> <td>20</td> <td>20</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Foraminifers</td> <td>1</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>99</td> <td>100</td> <td>100</td> </tr> </table>		1, 70	1, 135	2, 30	2, 100	3, 120	4, 70	5, 100		D	D	D	D	D	D	D	Silt	8	60	30	—	80	10	80	Clay	92	40	70	100	20	90	20	Barite	—	—	—	Tr	—	—	—	Clay	—	—	10	—	—	5	—	Foraminifers	8	1	5	—	2	Tr	Tr	Glass	Tr	—	Tr	—	Tr	—	—	Nannofossils	92	99	85	100	98	95	100	Quartz	—	Tr	—	—	—	—	—		6, 40	6, 100	7, 50		D	D	M	Silt	20	80	80	Clay	80	20	20	Foraminifers	1	Tr	—	Nannofossils	99	100	100
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LOWER MAESTRICHTIAN	AM	AM	AM	AM	$\chi = 61.4$ $\sigma = 1.76$		1						<p>NANNOFOSSIL OOZE</p> <p>Major lithology: NANNOFOSSIL OOZE, abundant large coccoliths with 2-20% foraminifers, white, severely disturbed by drilling with biscuits of firm chalk.</p> <p>Minor lithology: Chert, large flakes up to 5 mm thick and 50 to 75 mm wide, gray, conchoidally fractured.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>1, 110</td> <td>2, 69</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>* TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>2</td> <td>20</td> </tr> <tr> <td>Silt</td> <td>98</td> <td>80</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Foraminifers</td> <td>2</td> <td>20</td> </tr> <tr> <td>Glass</td> <td>Tr</td> <td>-</td> </tr> <tr> <td>Nannofossils</td> <td>90</td> <td>75</td> </tr> <tr> <td>Opaques</td> <td>-</td> <td>-</td> </tr> <tr> <td>Pellets</td> <td>8</td> <td>5</td> </tr> <tr> <td>Siliceous sponge spicules</td> <td>Tr</td> <td>-</td> </tr> </table>		1, 110	2, 69	D	D	D	Sand	2	20	Silt	98	80	Foraminifers	2	20	Glass	Tr	-	Nannofossils	90	75	Opaques	-	-	Pellets	8	5	Siliceous sponge spicules	Tr	-
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AM	AM	AM	AM	$\chi = 5.2$ $\sigma = 2.67$		CC																																					

