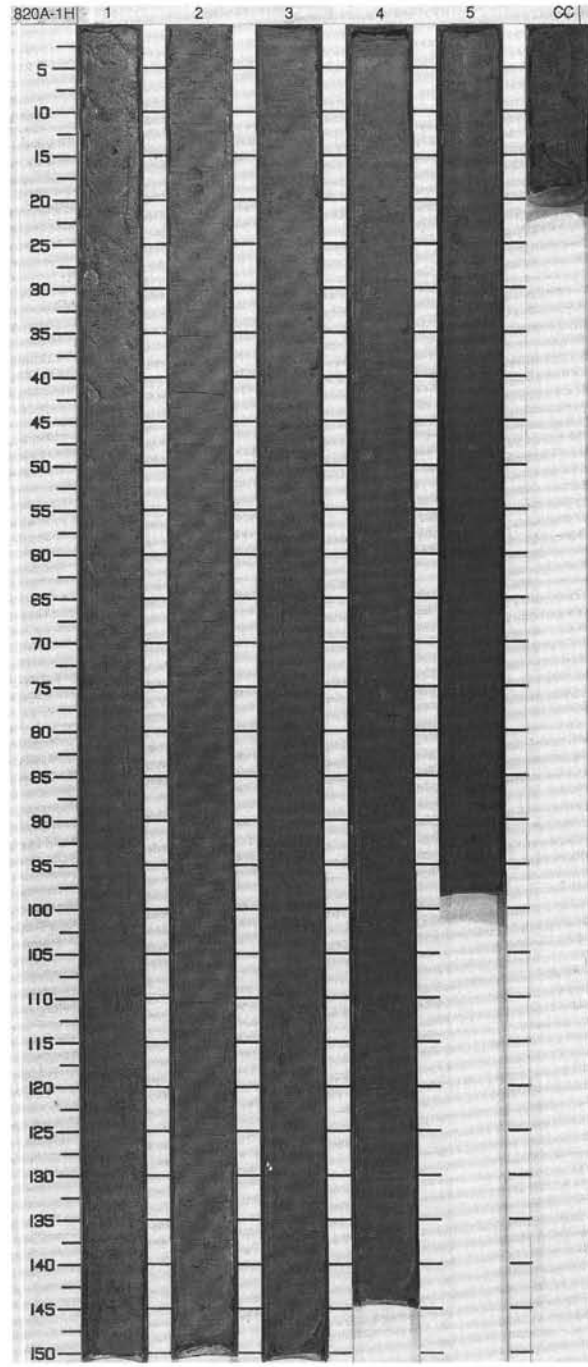
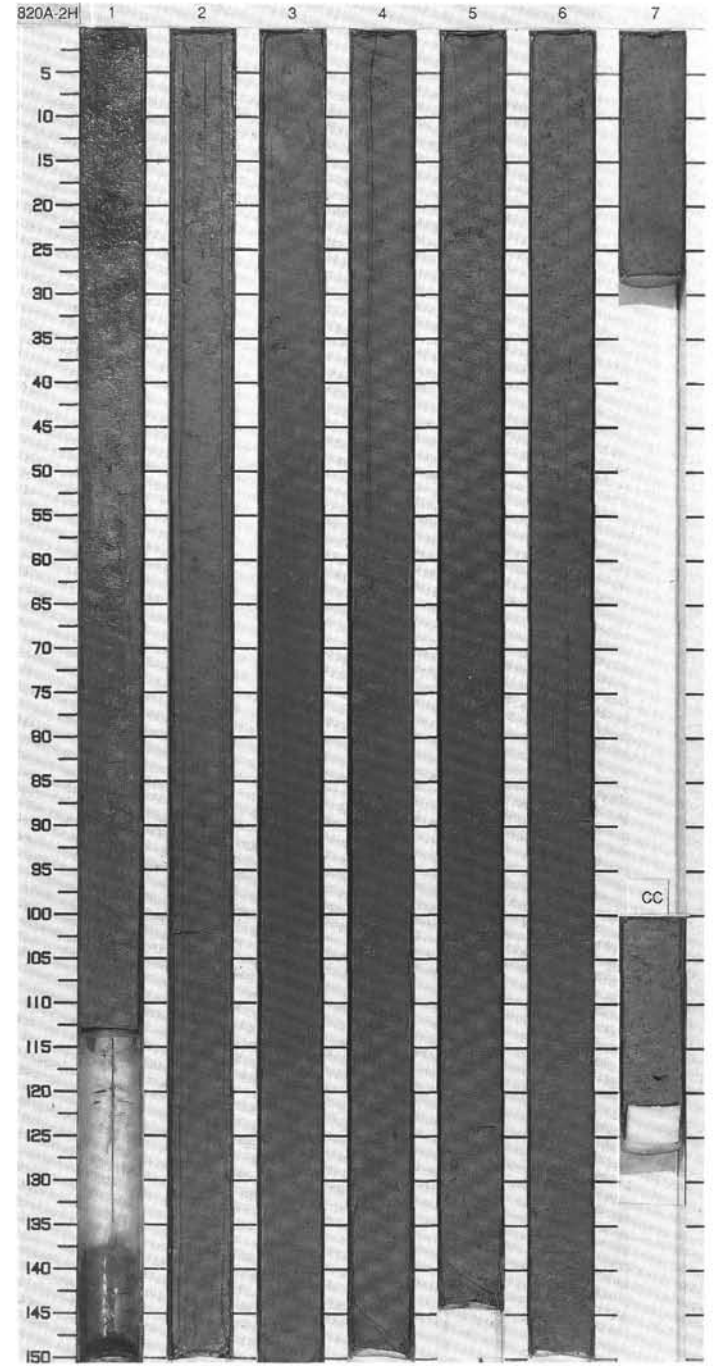


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SEP. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																										
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																				
PLEISTOCENE																																																								
A/G	N22 - N23				N		● 35.2%	1	0.0 - 0.5					<p>* CALCAREOUS CLAYEY SILT to NANNOFOSSIL CALCAREOUS MUD with SILT to CALCAREOUS SILTY MIXED SEDIMENT</p> <p>Major Lithology: This core contains CALCAREOUS CLAYEY SILT (Section 1) to NANNOFOSSIL CALCAREOUS MUD with SILT. PTEROPODS occur throughout the core. BENTHIC FORAMINIFERS are sparsely distributed in Section 1. The color change is gradational from gray green (10Y 5/2) in Section 1 to greenish gray (5Y 4/2) in Section 2, to dark greenish gray (10Y 4/1) at the bottom of Section 3. CALCAREOUS NANNOFOSSIL SILTY MIXED SEDIMENT, dark greenish gray (5GY 4/1) to greenish gray (5GY 5/1) occurs in Section 5.</p> <p>Minor lithology: BIOCLASTIC CALCAREOUS MUD with CLAY in the core catcher. Color is dark greenish gray (5GY 4/1).</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 14</td> <td>4, 100</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Bioclast</td> <td>25</td> <td>20</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>10</td> </tr> <tr> <td>Feldspar</td> <td>1</td> <td>3</td> </tr> <tr> <td>Foraminifers</td> <td>5</td> <td>7</td> </tr> <tr> <td>Intraclasts</td> <td>8</td> <td>...</td> </tr> <tr> <td>Lithoclast</td> <td>-</td> <td>5</td> </tr> <tr> <td>Micrite</td> <td>10</td> <td>12</td> </tr> <tr> <td>Nannofossils</td> <td>30</td> <td>20</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>17</td> </tr> <tr> <td>Siliceous sponge spicules</td> <td>3</td> <td>1</td> </tr> <tr> <td>Spicules</td> <td>...</td> <td>2</td> </tr> <tr> <td>Tunicate</td> <td>3</td> <td>3</td> </tr> </table>		1, 14	4, 100		D	D	Bioclast	25	20	Clay	10	10	Feldspar	1	3	Foraminifers	5	7	Intraclasts	8	...	Lithoclast	-	5	Micrite	10	12	Nannofossils	30	20	Quartz	5	17	Siliceous sponge spicules	3	1	Spicules	...	2	Tunicate	3	3
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Tunicate	3	3																																																						
A/G	CN15			N		● 65.7%	2	0.5 - 1.0																																																
				N		● 54.3%	3	1.0 - 1.5																																																
				N		● 70.0%	4	1.5 - 2.0																																																
				N		● 43.6%	5	2.0 - 2.5																																																
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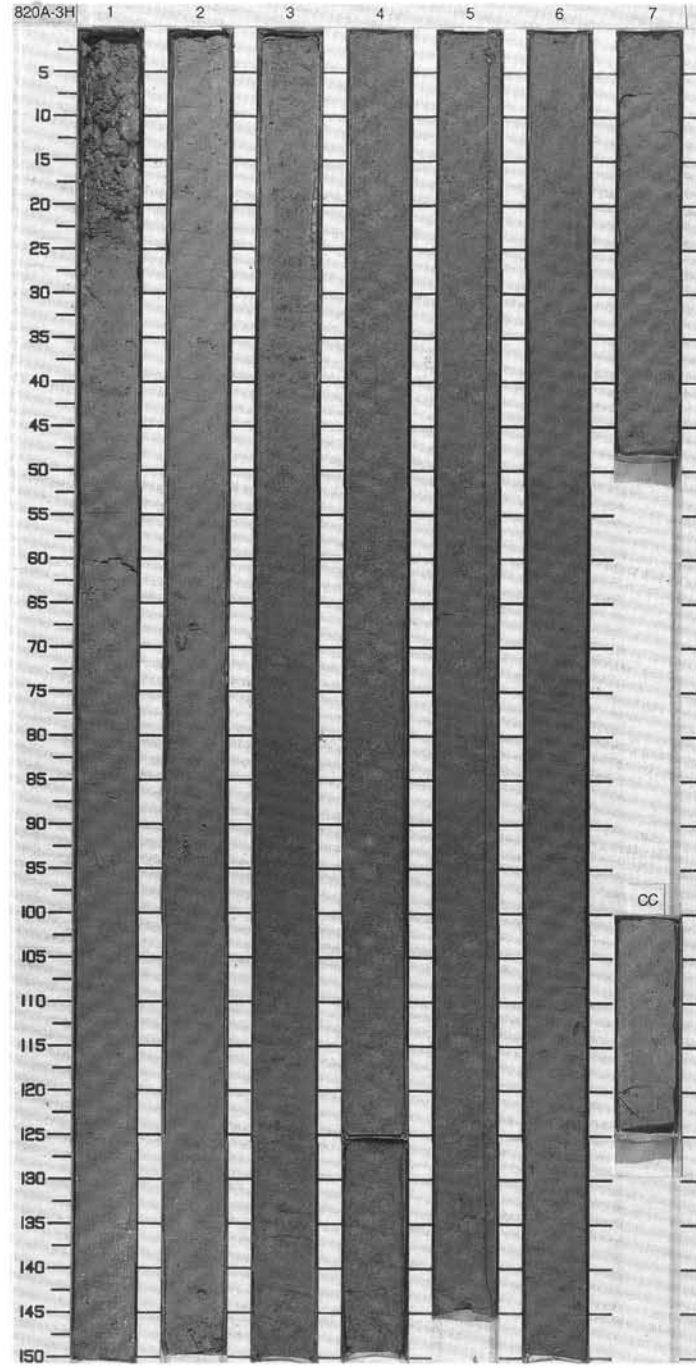


SITE 820 HOLE A CORE 2H CORED INTERVAL 7.2-16.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																																		
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS DIATOMS																																																																																																																											
PLEISTOCENE	A/G	N22 - N23		N	72.0%		0.5					<p>Major Lithology: Greenish gray (5Y 5/1) to dark greenish gray (5GY 4/1) BIOCLASTIC CALCAREOUS MUD with SILT and CLAY and changing amounts of NANNOFOSSILS to BIOCLASTIC CALCAREOUS MUDDY MIXED SEDIMENT. PTEROPODS occur in Sections 2 and 3. Bedding and bioturbation patterns are not visible.</p> <p>Minor Lithology: Grayish brown (2.5Y 4/2) coarse BIOCLASTIC FORAMINIFER PACKSTONE with QUARTZ and BIOCLASTIC WACKESTONE. An inversely graded bed of PACKSTONE occurs (0-80 cm) in Section 1.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>CF</th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td></td> <td>1, 50</td> <td>2, 75</td> <td>2, 90</td> <td>4, 90</td> <td>7, 10</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </tbody> </table> <p>* COMPOSITION:</p> <table border="1"> <thead> <tr> <th></th> <th>10</th> <th>25</th> <th>32</th> <th>35</th> <th>20</th> </tr> </thead> <tbody> <tr> <td>Accessory minerals</td> <td>---</td> <td>---</td> <td>---</td> <td>Tr</td> <td>---</td> </tr> <tr> <td>Bioclast</td> <td>10</td> <td>25</td> <td>32</td> <td>35</td> <td>20</td> </tr> <tr> <td>Clay</td> <td>---</td> <td>10</td> <td>15</td> <td>15</td> <td>15</td> </tr> <tr> <td>Dolomite</td> <td>---</td> <td>---</td> <td>Tr</td> <td>---</td> <td>1</td> </tr> <tr> <td>Fieldspar</td> <td>---</td> <td>1</td> <td>Tr</td> <td>---</td> <td>1</td> </tr> <tr> <td>Foraminifers</td> <td>50</td> <td>9</td> <td>5</td> <td>3</td> <td>5</td> </tr> <tr> <td>Intraclasts</td> <td>---</td> <td>5</td> <td>---</td> <td>---</td> <td>9</td> </tr> <tr> <td>Lithoclast</td> <td>---</td> <td>---</td> <td>2</td> <td>2</td> <td>---</td> </tr> <tr> <td>Micrite</td> <td>---</td> <td>8</td> <td>8</td> <td>10</td> <td>24</td> </tr> <tr> <td>Nannofossils</td> <td>---</td> <td>30</td> <td>13</td> <td>15</td> <td>15</td> </tr> <tr> <td>Pteropod</td> <td>6</td> <td>---</td> <td>---</td> <td>---</td> <td>---</td> </tr> <tr> <td>Quartz</td> <td>30</td> <td>5</td> <td>10</td> <td>15</td> <td>6</td> </tr> <tr> <td>Siliceous sponge spicules</td> <td>---</td> <td>3</td> <td>---</td> <td>---</td> <td>1</td> </tr> <tr> <td>Spicules</td> <td>---</td> <td>---</td> <td>2</td> <td>3</td> <td>---</td> </tr> <tr> <td>Tunicate</td> <td>---</td> <td>3</td> <td>5</td> <td>2</td> <td>3</td> </tr> </tbody> </table>		CF						1, 50	2, 75	2, 90	4, 90	7, 10		D	D	D	D	D		10	25	32	35	20	Accessory minerals	---	---	---	Tr	---	Bioclast	10	25	32	35	20	Clay	---	10	15	15	15	Dolomite	---	---	Tr	---	1	Fieldspar	---	1	Tr	---	1	Foraminifers	50	9	5	3	5	Intraclasts	---	5	---	---	9	Lithoclast	---	---	2	2	---	Micrite	---	8	8	10	24	Nannofossils	---	30	13	15	15	Pteropod	6	---	---	---	---	Quartz	30	5	10	15	6	Siliceous sponge spicules	---	3	---	---	1	Spicules	---	---	2	3	---	Tunicate	---	3	5	2	3
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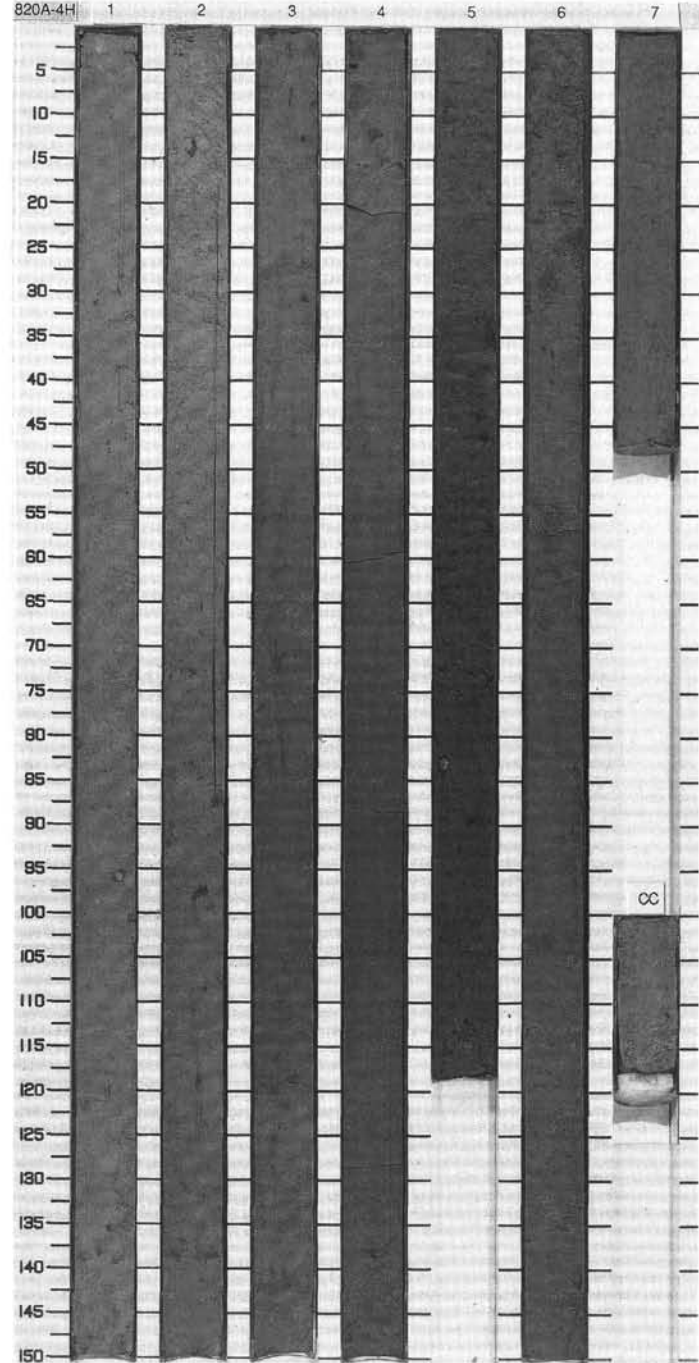


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																										
	FORAMINIFERS	NANNOFOSSILS	RADICULARIANS																																																				
PLEISTOCENE	A/G	N22 - N23	CN15					0.3					<p>BIOCLASTIC CALCAREOUS MUD</p> <p>Major Lithology: BIOCLASTIC CALCAREOUS MUD or SILT with scattered BENTHIC FORAMINIFERS in Section 1. 80-150 cm. Section 6 and 7. Bioturbation occurs mainly in the lower part of the core. Dark greenish gray colors prevail (10Y 6/2 in Sections 1-2, 10Y 5/2 in Sections 3-4, 10Y 5/1 in Section 5, 7, CC and 5GY 5/1 in Section 6).</p> <p>Minor lithology: Fine to medium sand-sized FORAMINIFER BIOCLASTIC PACKSTONE (1-2 cm) in horizontal burrows of centimeter size occur in Section 3 and 6.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>3.70</td> <td>4.100</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Bioclast</td> <td>40</td> <td>2</td> </tr> <tr> <td>Clay</td> <td>15</td> <td>15</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>1</td> </tr> <tr> <td>Feldspar</td> <td>Tr</td> <td>1</td> </tr> <tr> <td>Foraminifers</td> <td>3</td> <td>4</td> </tr> <tr> <td>Intraclasts</td> <td>—</td> <td>5</td> </tr> <tr> <td>Micrite</td> <td>15</td> <td>22</td> </tr> <tr> <td>Nannofossils</td> <td>17</td> <td>10</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>5</td> </tr> <tr> <td>Siliceous sponge spicules</td> <td>1</td> <td>2</td> </tr> <tr> <td>Spicules</td> <td>1</td> <td>3</td> </tr> <tr> <td>Tunicate</td> <td>3</td> <td>3</td> </tr> </table>		3.70	4.100	D	D	D	Bioclast	40	2	Clay	15	15	Dolomite	—	1	Feldspar	Tr	1	Foraminifers	3	4	Intraclasts	—	5	Micrite	15	22	Nannofossils	17	10	Quartz	5	5	Siliceous sponge spicules	1	2	Spicules	1	3	Tunicate	3	3
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				N		68.1%	4			*																																													
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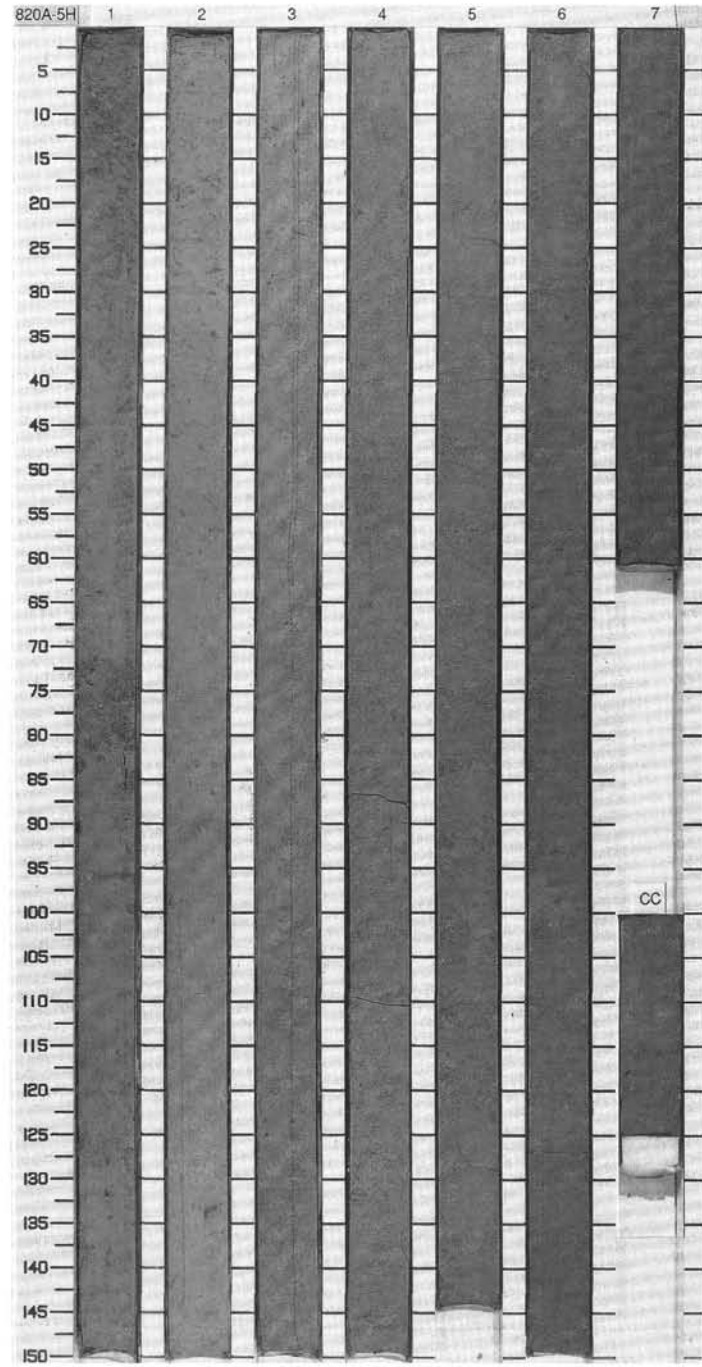


SITE 820 HOLE A CORE 4H CORED INTERVAL 26.2-35.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				CHEMISTRY	PHYS. PROPERTIES	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																																														
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONES																																																																																																																																						
PLEISTOCENE N22 - N23 CN14D						76.2% N	0.5	[Lithology symbols]				<p>BIOCLASTIC CALCAREOUS MUD with CLAY to CALCAREOUS CLAYEY SILTY MIXED SEDIMENT</p> <p>Major Lithology: BIOCLASTIC CALCAREOUS MUD with CLAY and changing amounts of NANNOFOSSILS to CALCAREOUS CLAYEY SILTY MIXED SEDIMENT. The color ranges from light greenish gray (10Y 8/2), greenish gray (10Y 5/2) to brownish green (10Y 4/2) or brownish gray (5Y 4/1).</p> <p>Minor Lithology: FORAMINIFER BIOCLASTIC PACKSTONE as infilling of burrows (Sections 1-5) or as normally graded layers in Section 5 and 6. Allochems include ROCK FRAGMENTS and BIOCLASTS (e.g. CORALS, BRYOZOANS).</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 86</td> <td>3, 122</td> <td>4, 60</td> <td>5, 114</td> <td>7, 20</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Algae</td> <td>---</td> <td>---</td> <td>3</td> <td>---</td> <td>---</td> </tr> <tr> <td>Bioclast</td> <td>15</td> <td>30</td> <td>23</td> <td>25</td> <td>30</td> </tr> <tr> <td>Clay</td> <td>15</td> <td>20</td> <td>---</td> <td>15</td> <td>20</td> </tr> <tr> <td>Coral</td> <td>---</td> <td>---</td> <td>5</td> <td>---</td> <td>---</td> </tr> <tr> <td>Dolomite</td> <td>1</td> <td>---</td> <td>---</td> <td>---</td> <td>---</td> </tr> <tr> <td>Echinoid</td> <td>---</td> <td>---</td> <td>1</td> <td>---</td> <td>---</td> </tr> <tr> <td>Feldspar</td> <td>2</td> <td>---</td> <td>---</td> <td>1</td> <td>1</td> </tr> <tr> <td>Foraminifers</td> <td>10</td> <td>2</td> <td>60</td> <td>20</td> <td>3</td> </tr> <tr> <td>Glauconite</td> <td>---</td> <td>---</td> <td>---</td> <td>1</td> <td>---</td> </tr> <tr> <td>Intraclasts</td> <td>10</td> <td>---</td> <td>---</td> <td>15</td> <td>---</td> </tr> <tr> <td>Lithoclast</td> <td>---</td> <td>Tr</td> <td>---</td> <td>---</td> <td>5</td> </tr> <tr> <td>Micrite</td> <td>20</td> <td>10</td> <td>---</td> <td>5</td> <td>9</td> </tr> <tr> <td>Mollusk</td> <td>---</td> <td>---</td> <td>3</td> <td>---</td> <td>---</td> </tr> <tr> <td>Nannofossils</td> <td>10</td> <td>25</td> <td>---</td> <td>3</td> <td>20</td> </tr> <tr> <td>Pteropod</td> <td>---</td> <td>---</td> <td>4</td> <td>---</td> <td>---</td> </tr> <tr> <td>Quartz</td> <td>10</td> <td>5</td> <td>---</td> <td>10</td> <td>5</td> </tr> <tr> <td>Siliceous sponge spicules</td> <td>2</td> <td>1</td> <td>---</td> <td>---</td> <td>2</td> </tr> <tr> <td>Spicules</td> <td>---</td> <td>2</td> <td>1</td> <td>---</td> <td>2</td> </tr> <tr> <td>Tunicate</td> <td>3</td> <td>5</td> <td>---</td> <td>3</td> <td>3</td> </tr> </table>		1, 86	3, 122	4, 60	5, 114	7, 20		D	D	D	D	D	Algae	---	---	3	---	---	Bioclast	15	30	23	25	30	Clay	15	20	---	15	20	Coral	---	---	5	---	---	Dolomite	1	---	---	---	---	Echinoid	---	---	1	---	---	Feldspar	2	---	---	1	1	Foraminifers	10	2	60	20	3	Glauconite	---	---	---	1	---	Intraclasts	10	---	---	15	---	Lithoclast	---	Tr	---	---	5	Micrite	20	10	---	5	9	Mollusk	---	---	3	---	---	Nannofossils	10	25	---	3	20	Pteropod	---	---	4	---	---	Quartz	10	5	---	10	5	Siliceous sponge spicules	2	1	---	---	2	Spicules	---	2	1	---	2	Tunicate	3	5	---	3	3
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						80.2% N	3	[Lithology symbols]																																																																																																																																		
						74.0% N	4	[Lithology symbols]																																																																																																																																		
						65.0% N	5	[Lithology symbols]																																																																																																																																		
						67.6% N	6	[Lithology symbols]																																																																																																																																		
							7	[Lithology symbols]																																																																																																																																		

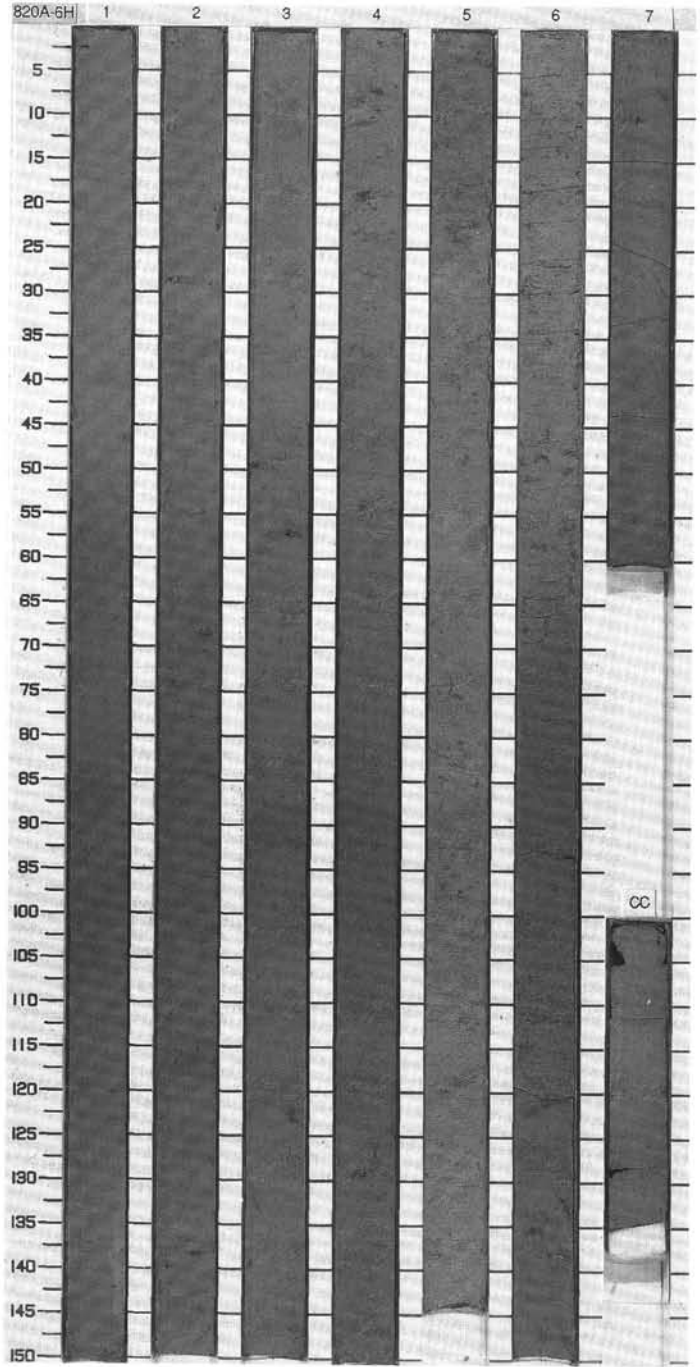


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS DIATOMS																																																																													
PLEISTOCENE																																																																																
A/G	N22 - N23			N		● 80.6%	1	0.5				<p>BIOCLASTIC CALCAREOUS MUD</p> <p>Major Lithology: Slightly bioturbated BIOCLASTIC CALCAREOUS MUD. Bioclasts are mainly silt-sized. The color changes from light gray green (10Y 6/2) at the top of the core, to grayish green (10Y 5/2) in the middle of the core and dark greenish gray (5GY 6/1) at the bottom.</p> <p>Minor Lithology: SKELETAL PACKSTONE in burrows or as layers of max. 10cm thickness (Section 1). Bioclasts are BIVALVES, BRYOZOANS and FORAMINIFERS.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2.78</td> <td>4.80</td> <td>6.100</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>* Aragonite</td> <td>4</td> <td>---</td> <td>---</td> </tr> <tr> <td>Bioclast</td> <td>15</td> <td>30</td> <td>30</td> </tr> <tr> <td>Clay</td> <td>15</td> <td>15</td> <td>20</td> </tr> <tr> <td>Dolomite</td> <td>2</td> <td>---</td> <td>---</td> </tr> <tr> <td>Feldspar</td> <td>3</td> <td>2</td> <td>---</td> </tr> <tr> <td>Foraminifers</td> <td>5</td> <td>5</td> <td>5</td> </tr> <tr> <td>Glaucinite</td> <td>Tr</td> <td>---</td> <td>---</td> </tr> <tr> <td>Intraclasts</td> <td>10</td> <td>---</td> <td>---</td> </tr> <tr> <td>Lithoclast</td> <td>---</td> <td>5</td> <td>5</td> </tr> <tr> <td>Micrite</td> <td>15</td> <td>13</td> <td>5</td> </tr> <tr> <td>Nannofossils</td> <td>20</td> <td>15</td> <td>15</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>8</td> <td>10</td> </tr> <tr> <td>Siliceous sponge spicules</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>Spicules</td> <td>---</td> <td>2</td> <td>5</td> </tr> <tr> <td>Tunicate</td> <td>5</td> <td>3</td> <td>2</td> </tr> </table>		2.78	4.80	6.100	D	D	D	D	* Aragonite	4	---	---	Bioclast	15	30	30	Clay	15	15	20	Dolomite	2	---	---	Feldspar	3	2	---	Foraminifers	5	5	5	Glaucinite	Tr	---	---	Intraclasts	10	---	---	Lithoclast	---	5	5	Micrite	15	13	5	Nannofossils	20	15	15	Quartz	5	8	10	Siliceous sponge spicules	1	2	3	Spicules	---	2	5	Tunicate	5	3	2
	2.78	4.80	6.100																																																																													
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Spicules	---	2	5																																																																													
Tunicate	5	3	2																																																																													
A/G	CN14b		N		● 79.1%	2	1.0																																																																									
			N		● 73.3%	3	1.5																																																																									
			N		● 73.6%	4	2.0			*																																																																						
			N		● 76.4%	5	2.5																																																																									
			N		● 70.5%	6	3.0																																																																									
			N			7	3.5																																																																									
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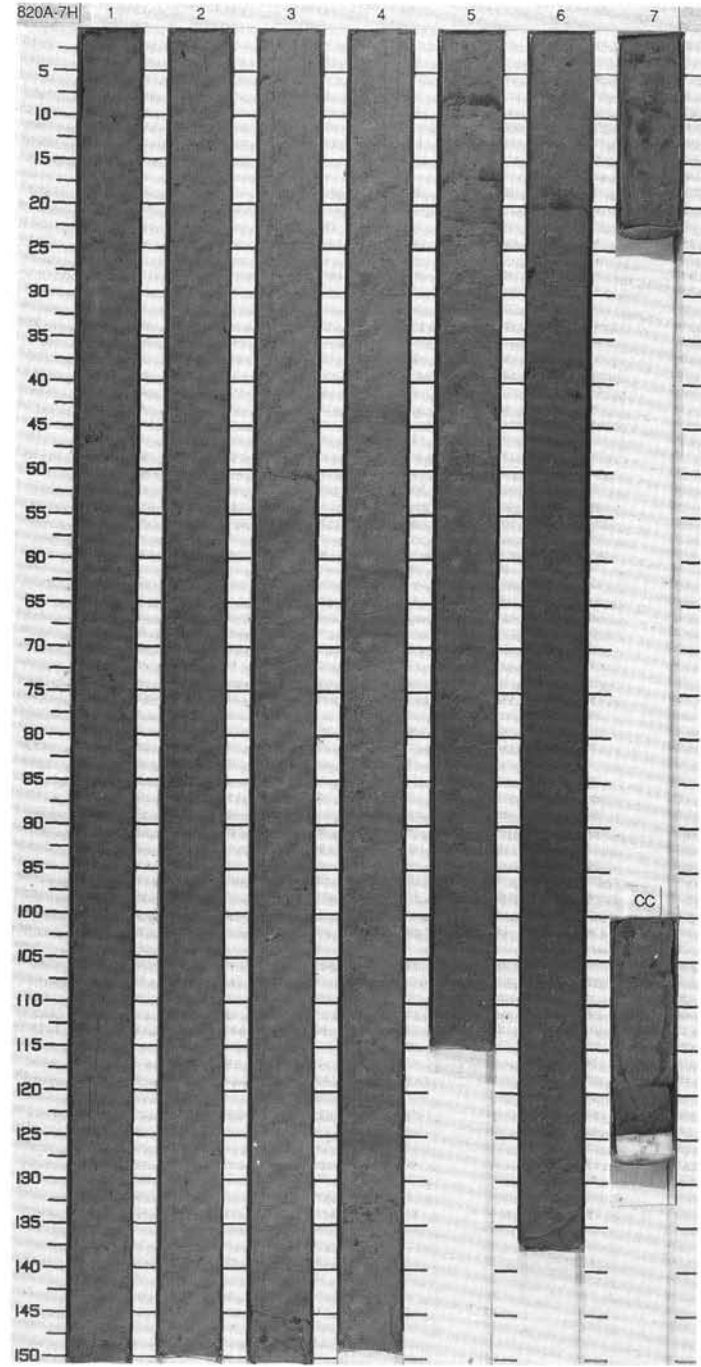
SITE 820 HOLE A CORE 6H CORED INTERVAL 45.2-54.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
C/G	N22 - N23				N			1	0.5 1.0					BIOCLASTIC CALCAREOUS CLAYEY SILTY MIXED SEDIMENT TO SKELETAL CALCAREOUS MUDSTONE TO WACKESTONE
A/G	CN14b													
					2		2						Major Lithology: Slightly bioturbated BIOCLASTIC CALCAREOUS CLAYEY SILTY MIXED SEDIMENT. Disseminated MONOSULFIDES occur throughout. Color mottling due to bioturbation, ranging from dark greenish gray (10Y 4/1) to dark grayish green (10Y 4/2 and 10Y 6/2).	
					3		3						Minor Lithology: Intercalations of silt-sized SKELETAL PACKSTONE as infilling of burrows or as beds with normal or reversed grading. Burrow fills in places lithified.	
					4		4						SMEAR SLIDE SUMMARY (%):	
					5		5						COMPOSITION:	
					6		6						Bioclast 30 20 25	
					7		7						Clay 22 15 20	
					CC								Collophane --- 3 ---	
					OG								Dolomite --- 3 ---	
					IW								Feldspar 1 --- 3	
					PAH								Foraminifers 4 19 3	
													Glauconite --- 2 ---	
													Intraclasts --- 11 5	
													Lithoclast 10 --- 5	
													Micrite 5 1 10	
													Nannofossils 15 7 10	
													Quartz 7 10 12	
													Siliceous sponge spicules 1 2 2	
													Spicules 2 --- 2	
													Tunicate 3 5 3	

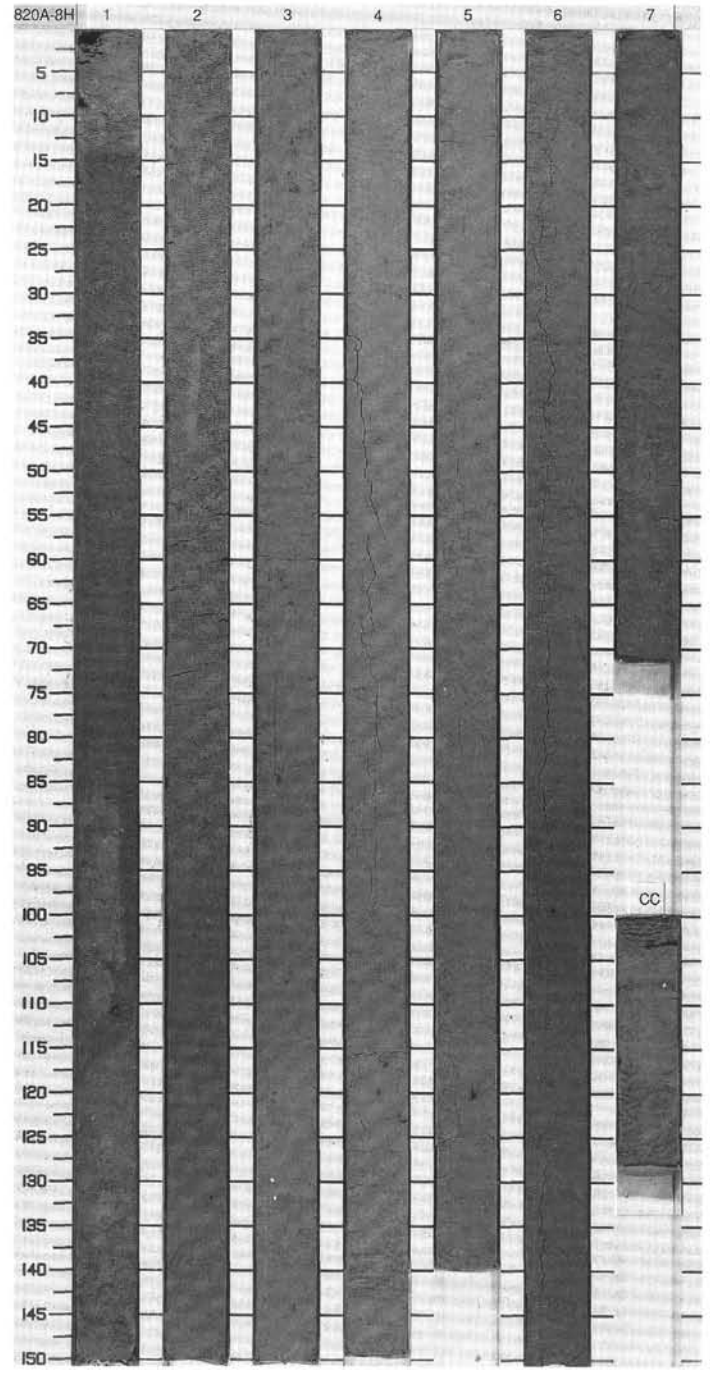
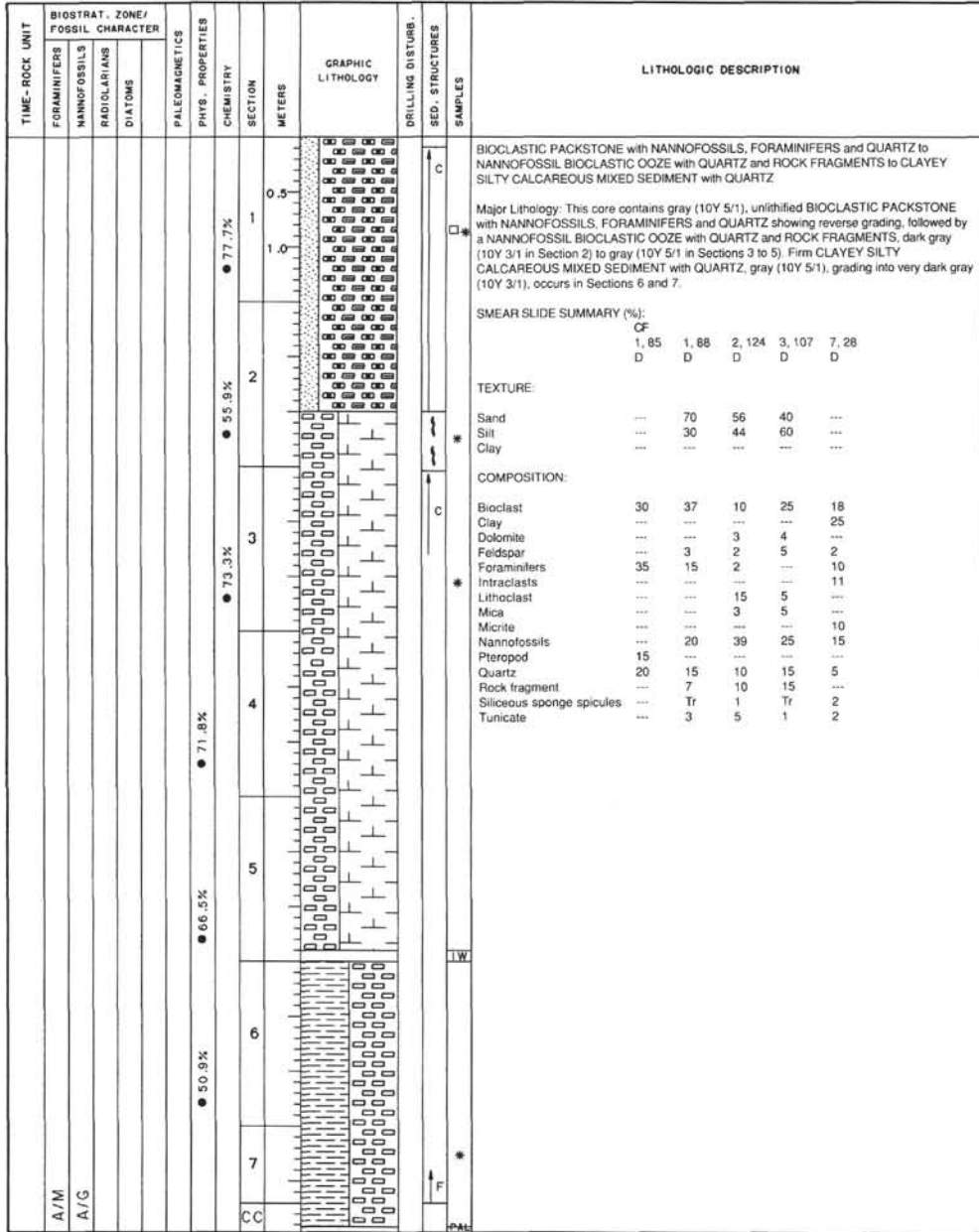


SITE 820 HOLE A CORE 7H CORED INTERVAL 54.7-64.2 mbsf

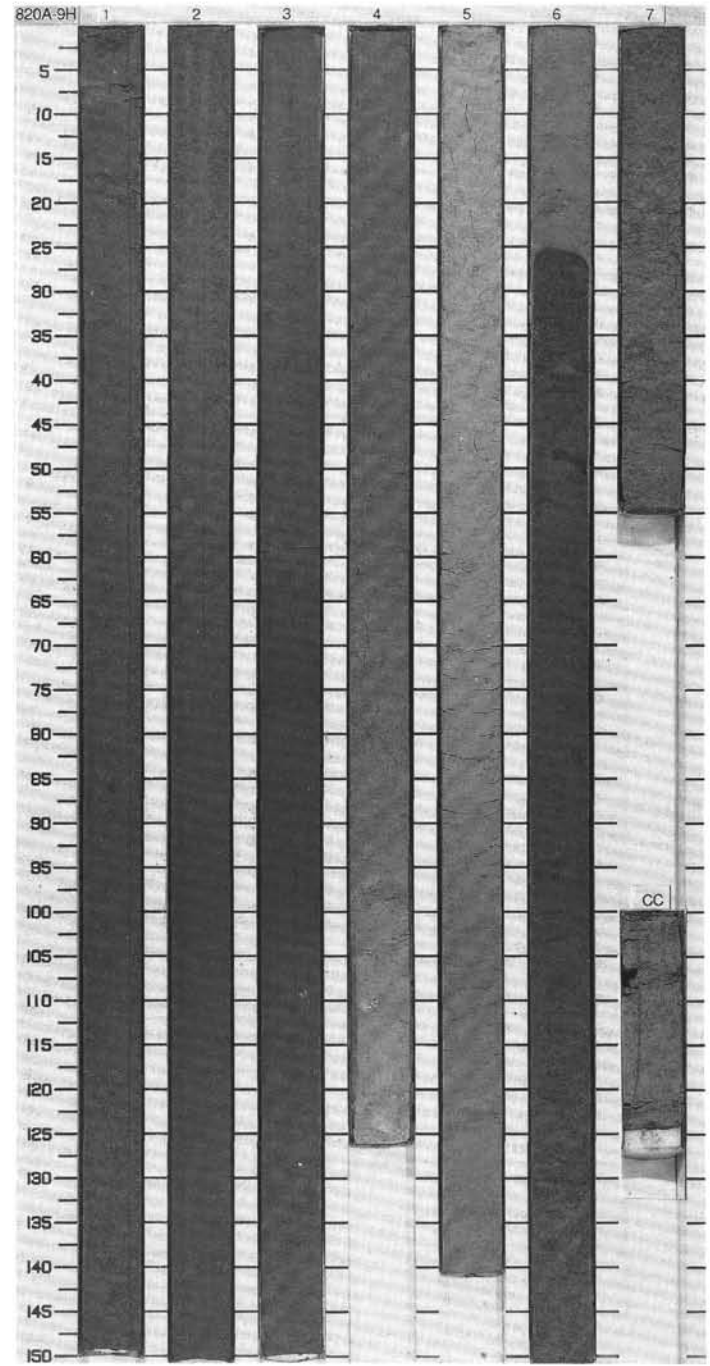
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																													
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONIS																																																					
C/G	N22 - N23				● 65.9%	1	0.5	[Lithology pattern]				<p>CALCAREOUS SILTY MIXED SEDIMENT (MUD) to CALCAREOUS CLAYEY SILT</p> <p>Major Lithology: Slightly bioturbated CALCAREOUS SILTY MIXED SEDIMENT (MUD) with rare BIOCLASTS. Burrows are filled mainly with un lithified BIOCLASTIC PACKSTONE. A very dark gray green (10Y 3/1) CALCAREOUS CLAYEY SILT occurs in Section 6 and 7. Frequent changes of color of dark gray green (10Y 4/1) to gray (10Y 5/1) do not reflect variations in grain size.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>3.68</td> <td>6.67</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Aragonite</td> <td>4</td> <td>---</td> </tr> <tr> <td>Bioclast</td> <td>15</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>15</td> <td>20</td> </tr> <tr> <td>Dolomite</td> <td>2</td> <td>5</td> </tr> <tr> <td>Feldspar</td> <td>3</td> <td>2</td> </tr> <tr> <td>Foraminifers</td> <td>5</td> <td>7</td> </tr> <tr> <td>Glaucanite</td> <td>Tr</td> <td>---</td> </tr> <tr> <td>Intraclasts</td> <td>10</td> <td>---</td> </tr> <tr> <td>Micrite</td> <td>15</td> <td>21</td> </tr> <tr> <td>Nannofossils</td> <td>20</td> <td>25</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>5</td> </tr> <tr> <td>Siliceous sponge spicules</td> <td>1</td> <td>2</td> </tr> <tr> <td>Tunicate</td> <td>5</td> <td>3</td> </tr> </table>		3.68	6.67	D	D	D	Aragonite	4	---	Bioclast	15	5	Clay	15	20	Dolomite	2	5	Feldspar	3	2	Foraminifers	5	7	Glaucanite	Tr	---	Intraclasts	10	---	Micrite	15	21	Nannofossils	20	25	Quartz	5	5	Siliceous sponge spicules	1	2	Tunicate	5	3
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Tunicate	5	3																																																							
A/G	CN14b			● 56.1%	2	1.0	[Lithology pattern]																																																		
				● 54.1%	3		[Lithology pattern]																																																		
				● 57.6%	4		[Lithology pattern]																																																		
				● 41.3%	5		[Lithology pattern]																																																		
				● 30.3%	6		[Lithology pattern]																																																		
					7		[Lithology pattern]																																																		
CC																																																									



SITE 820 HOLE A CORE 8H CORED INTERVAL 64.2-73.7 mbsf

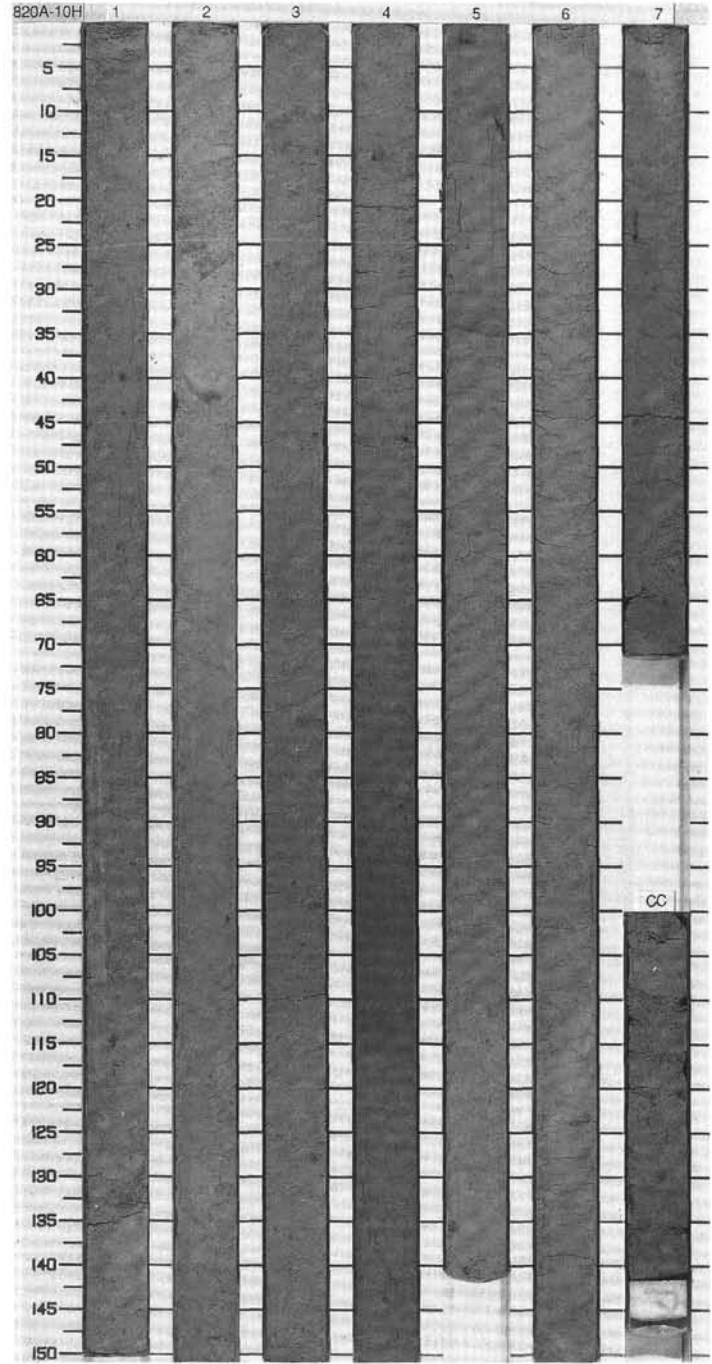


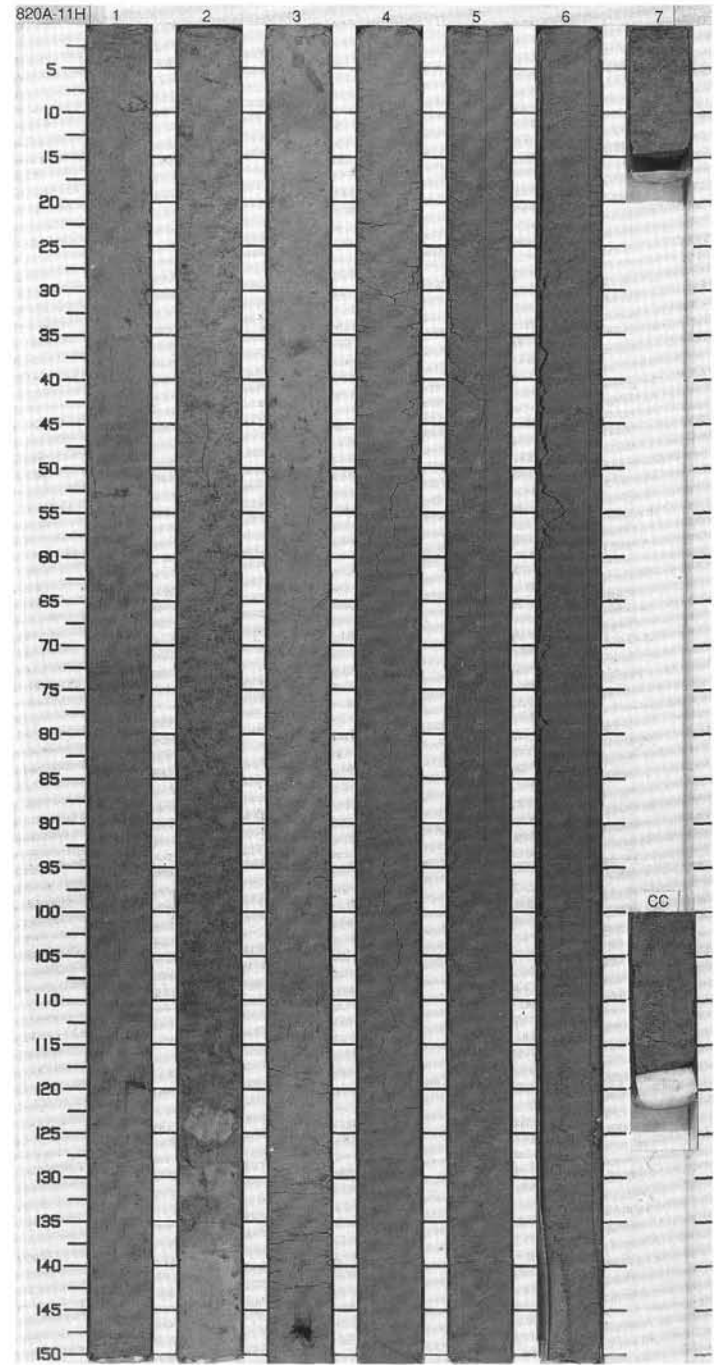
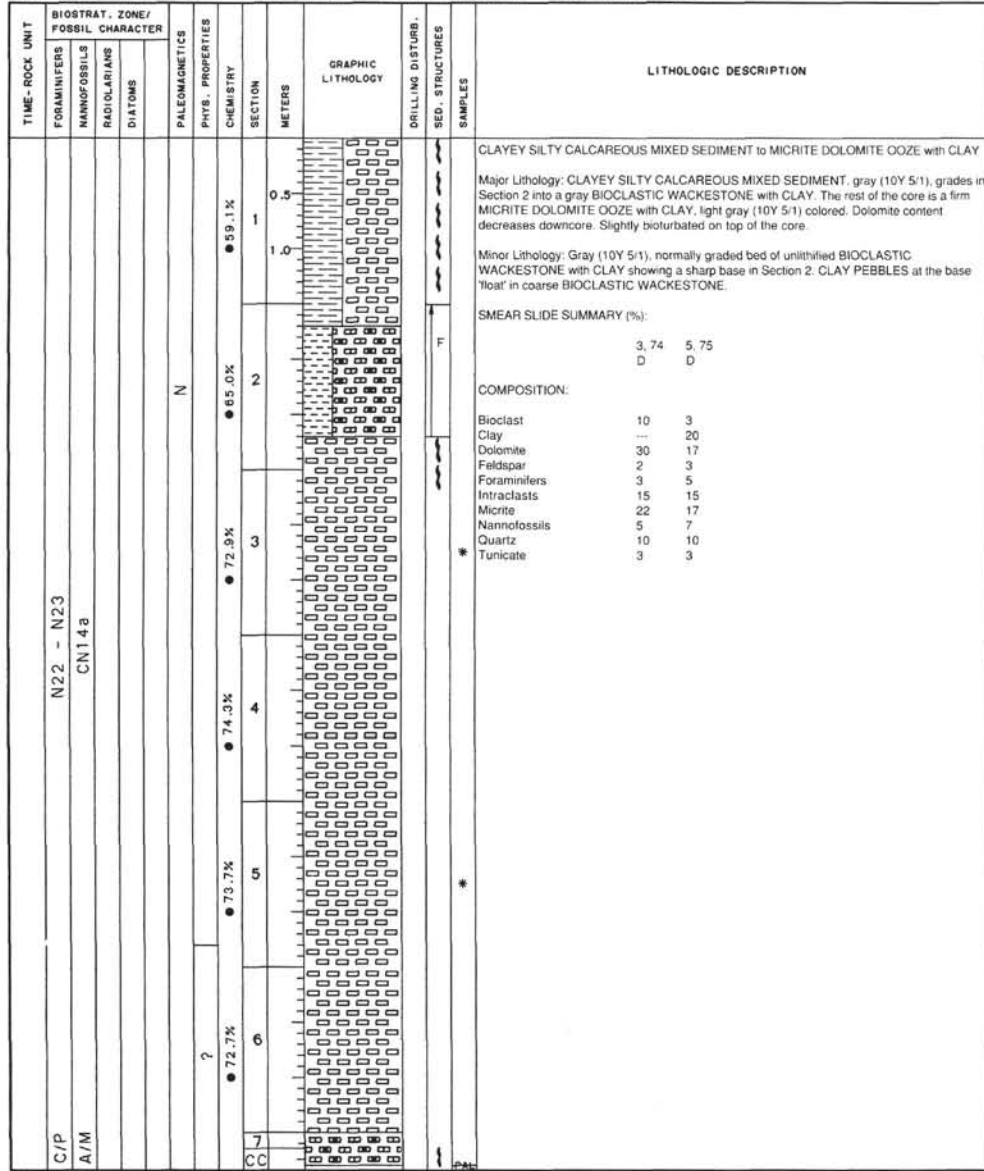
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																									
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONS																																																																																																			
A/M	N22 - N23				N				1		F		<p>CLAYEY SILTY BIOCLASTIC WACKESTONE to BIOCLASTIC WACKESTONE with NANNOFOSSILS and FORAMINIFERS</p> <p>Major Lithology: This core contains un lithified CLAYEY SILTY BIOCLASTIC WACKESTONE, gray (10Y 5/1) in Section 1 and 2, 0-90 cm, and Section 5 and 6, to very dark gray (10Y 3/1) in Section 2, 90-150 cm, 3, and Section 4, 0-50 cm. Un lithified BIOCLASTIC WACKESTONE with NANNOFOSSILS and FORAMINIFERS is light gray (10Y 7/1) in Section 4 and 5. Burrows are filled with BIOCLASTIC WACKESTONE with CLAY.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 87</td> <td>3, 75</td> <td>4, 106</td> <td>5, 78</td> <td>6, 77</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Bioclast</td> <td>10</td> <td>5</td> <td>35</td> <td>20</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>15</td> <td>---</td> <td>---</td> <td>10</td> </tr> <tr> <td>Dolomite</td> <td>---</td> <td>---</td> <td>---</td> <td>1</td> <td>---</td> </tr> <tr> <td>Feldspar</td> <td>3</td> <td>2</td> <td>1</td> <td>1</td> <td>---</td> </tr> <tr> <td>Foraminifers</td> <td>5</td> <td>10</td> <td>15</td> <td>32</td> <td>3</td> </tr> <tr> <td>Glaucinite</td> <td>Tr</td> <td>---</td> <td>---</td> <td>---</td> <td>---</td> </tr> <tr> <td>Intraclasts</td> <td>7</td> <td>10</td> <td>10</td> <td>10</td> <td>13</td> </tr> <tr> <td>Micrite</td> <td>25</td> <td>10</td> <td>10</td> <td>10</td> <td>19</td> </tr> <tr> <td>Nannofossils</td> <td>20</td> <td>35</td> <td>25</td> <td>20</td> <td>35</td> </tr> <tr> <td>Quartz</td> <td>7</td> <td>8</td> <td>3</td> <td>3</td> <td>6</td> </tr> <tr> <td>Siliceous sponge spicules</td> <td>---</td> <td>---</td> <td>1</td> <td>---</td> <td>---</td> </tr> <tr> <td>Spicules</td> <td>---</td> <td>2</td> <td>---</td> <td>---</td> <td>1</td> </tr> <tr> <td>Tunicate</td> <td>3</td> <td>3</td> <td>---</td> <td>3</td> <td>3</td> </tr> </table>		1, 87	3, 75	4, 106	5, 78	6, 77	D	D	D	D	D	D	Bioclast	10	5	35	20	10	Clay	20	15	---	---	10	Dolomite	---	---	---	1	---	Feldspar	3	2	1	1	---	Foraminifers	5	10	15	32	3	Glaucinite	Tr	---	---	---	---	Intraclasts	7	10	10	10	13	Micrite	25	10	10	10	19	Nannofossils	20	35	25	20	35	Quartz	7	8	3	3	6	Siliceous sponge spicules	---	---	1	---	---	Spicules	---	2	---	---	1	Tunicate	3	3	---	3	3
	1, 87	3, 75	4, 106	5, 78										6, 77																																																																																									
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SITE 820 HOLE A CORE 10H CORED INTERVAL 83.2-92.7 mbsf

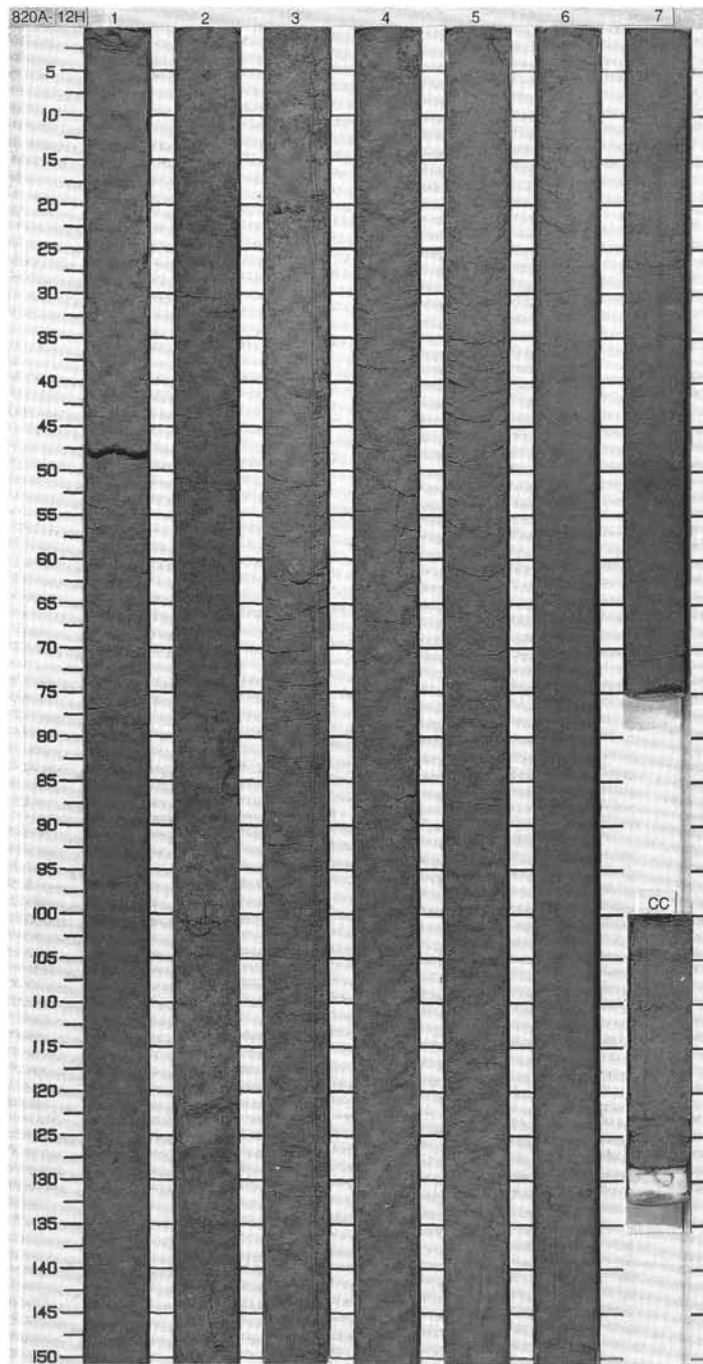
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
C/M	N22 - N23				N			1	0.5 1.0				MICRITE OOZE with NANNOFOSSILS to NANNOFOSSIL OOZE with MICRITE to CLAYEY SILTY NANNOFOSSIL MIXED SEDIMENT	
A/M	CN14b													
					2				Major Lithology: Light gray (10Y 6/1) to gray (10Y 5/1) MICRITE OOZE with NANNOFOSSILS to NANNOFOSSIL OOZE with MICRITE. CLAYEY SILTY NANNOFOSSIL MIXED SEDIMENT is dark gray (10Y 4/1) colored. Occasional burrows are filled with un lithified BIOCLASTIC PACKSTONE or WACKESTONE. CHALK NODULES occur in Sections 1 and 2. Minor Lithology: Light gray (10Y 6/1), un lithified BIOCLASTIC WACKESTONE.					
					3									
					4									
					5				SMEAR SLIDE SUMMARY (%): 1, 68 D 2, 56 D 4, 100 D					
					6									
					7				* TEXTURE: Sand 40 40 --- Silt 40 10 --- Clay 20 50 ---					
					CC									
									COMPOSITION: Accessory minerals --- --- 1 Bioclast 25 17 20 Clay 10 10 5 Feldspar --- 3 2 Foraminifers 2 5 3 Lithoclast 5 --- --- Mica --- --- 2 Micrite 20 40 15 Nannofossils 30 10 30 Quartz 3 10 5 Rock fragment 2 5 15 Spicules --- --- 1 Tunicate 3 --- 1					





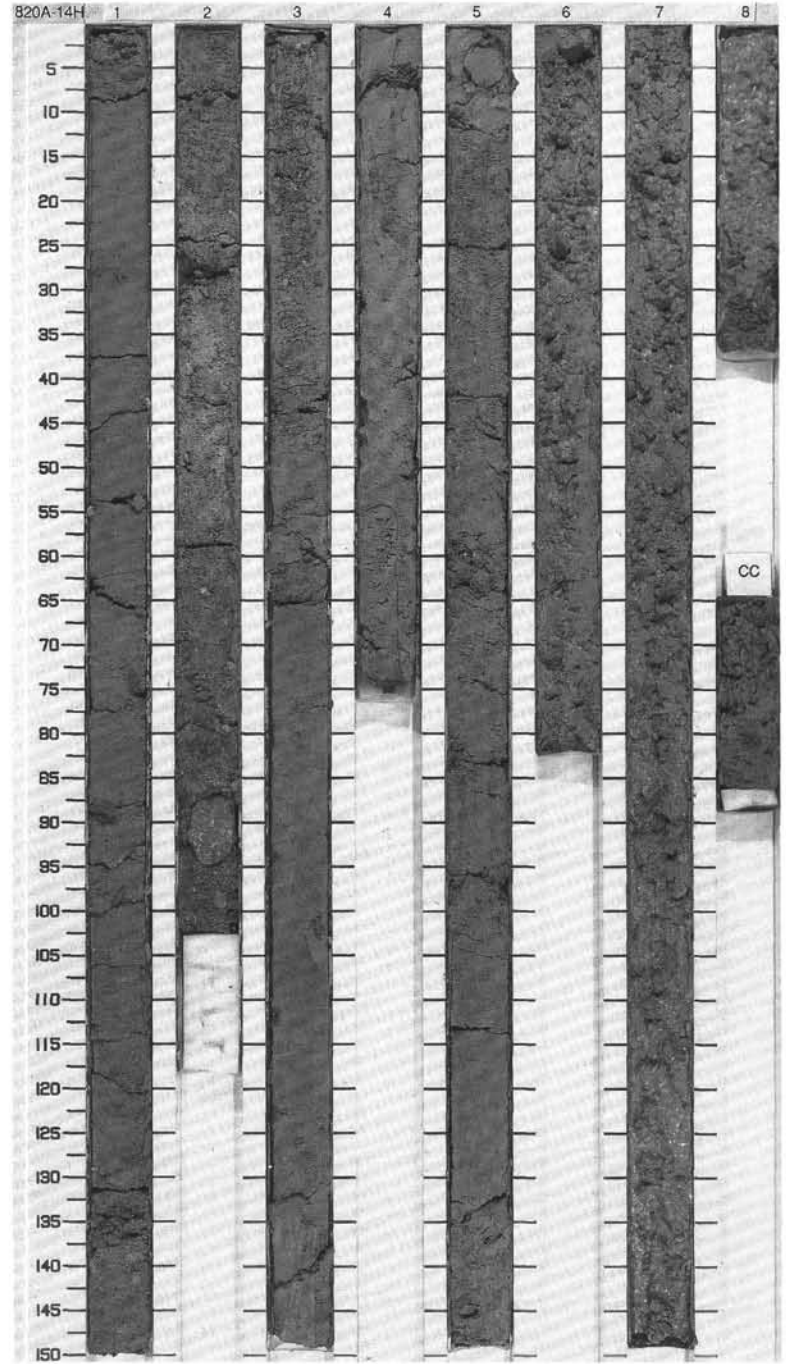
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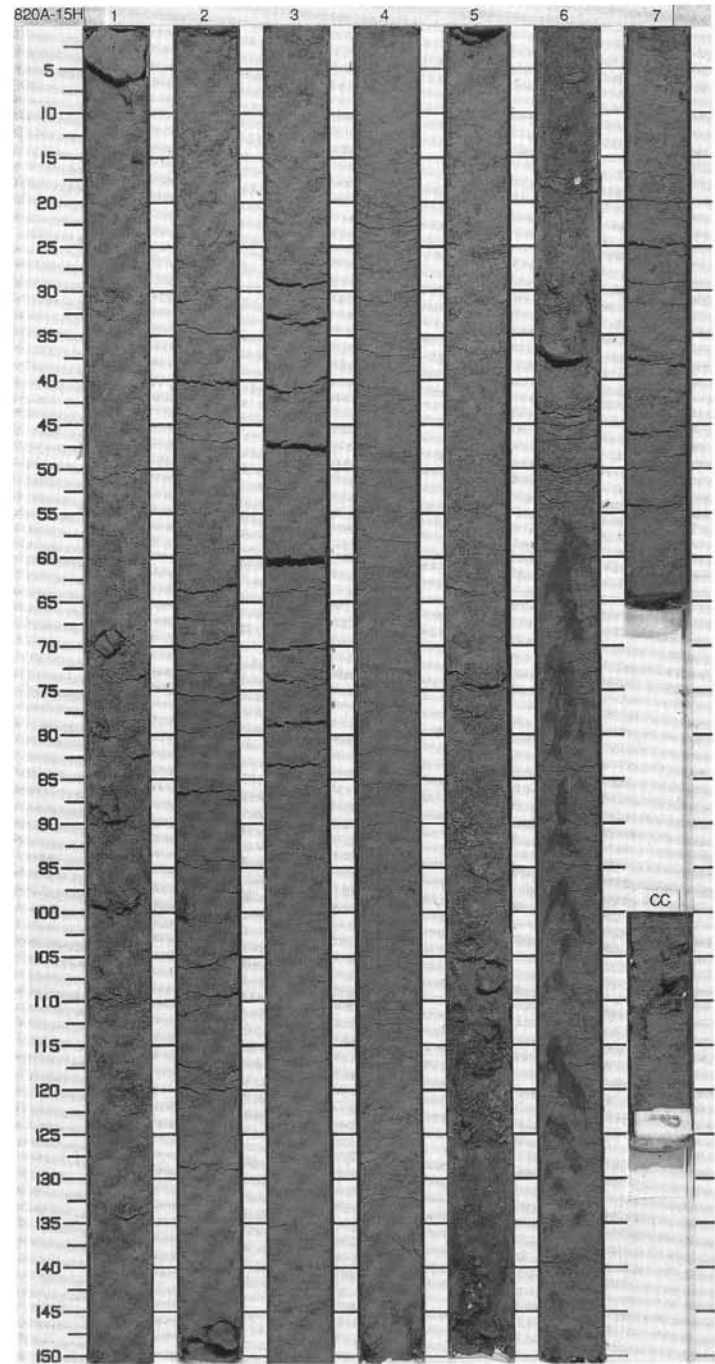
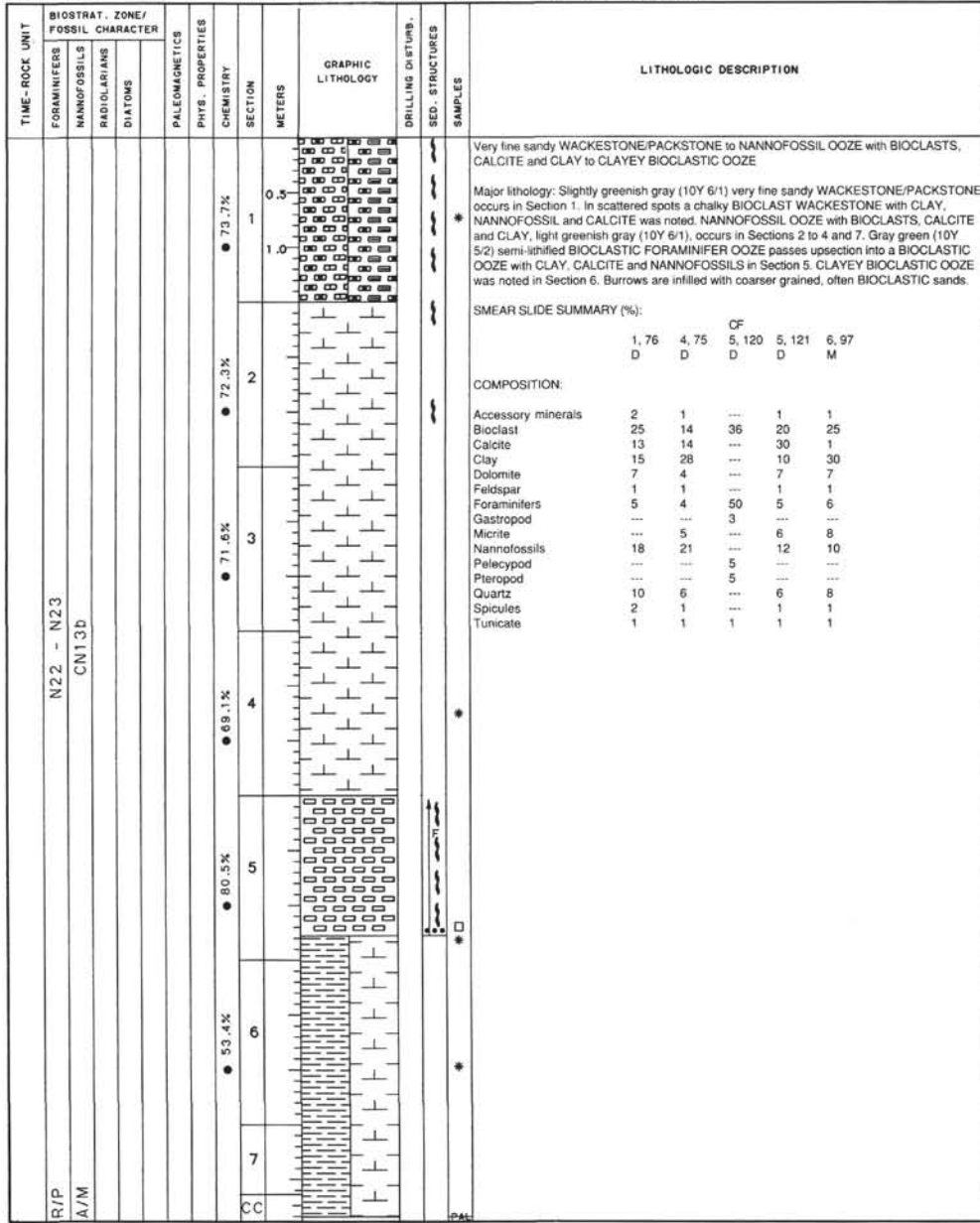
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETIC	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																					
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIALOMS																																																																																															
C/P	N22 - N23							1	0.5	[Lithology symbols]				<p>BIOCLASTIC CALCAREOUS OOZE to MICRITIC CALCAREOUS OOZE with CLAY, BIOCLASTS and SILICICLASTICS to NANNOFOSSIL CALCAREOUS OOZE with BIOCLASTS, SILICICLASTICS and CLAY</p> <p>Major lithology: BIOCLASTIC CALCAREOUS OOZE to firm MICRITIC CALCAREOUS OOZE with CLAY, BIOCLASTS and SILICICLASTICS to NANNOFOSSIL CALCAREOUS OOZE with BIOCLASTS, SILICICLASTICS and CLAY occurs as transitional lithologies from Sections 4 to 6. PTEROPOD fragments occur throughout Sections 6 and 7. The color of these sediments are gray green (10Y 5/1) to greenish gray (10Y 5/2). The sediment in the first three sections is generally very fine sand- to silt-sized. Coarser sandy layers occur in Section 3, 0-10, 20-25, and 57-61 cm.</p> <p>Minor lithology: Firm BIOCLASTIC OOZE/CHALK occurs in Section 1, 0-36 cm. Partially lithified BIOCLASTIC WACKESTONE with CLAY, heavily bioturbated, occurs in Section 1, 36-96 cm. The color is gray (10Y 5/1). Burrows are filled with fine to coarse grained WACKESTONE.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>1, 128</th> <th>2, 140</th> <th>3, 20</th> <th>5, 105</th> </tr> <tr> <th>D</th> <th>D</th> <th>D</th> <th>D</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>Algae</td> <td>---</td> <td>2</td> <td>---</td> <td>---</td> </tr> <tr> <td>Bioclast</td> <td>38</td> <td>8</td> <td>---</td> <td>15</td> </tr> <tr> <td>Calote</td> <td>---</td> <td>---</td> <td>50</td> <td>---</td> </tr> <tr> <td>Clay</td> <td>5</td> <td>---</td> <td>---</td> <td>---</td> </tr> <tr> <td>Coral</td> <td>---</td> <td>5</td> <td>---</td> <td>---</td> </tr> <tr> <td>Dolomite</td> <td>2</td> <td>---</td> <td>10</td> <td>13</td> </tr> <tr> <td>Feldspar</td> <td>2</td> <td>---</td> <td>2</td> <td>3</td> </tr> <tr> <td>Foraminifers</td> <td>5</td> <td>60</td> <td>3</td> <td>10</td> </tr> <tr> <td>Lithoclast</td> <td>---</td> <td>---</td> <td>7</td> <td>---</td> </tr> <tr> <td>Micrite</td> <td>20</td> <td>---</td> <td>15</td> <td>20</td> </tr> <tr> <td>Mollusk</td> <td>---</td> <td>5</td> <td>---</td> <td>---</td> </tr> <tr> <td>Nannofossils</td> <td>20</td> <td>---</td> <td>5</td> <td>5</td> </tr> <tr> <td>Pteropod</td> <td>---</td> <td>20</td> <td>---</td> <td>---</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>---</td> <td>5</td> <td>10</td> </tr> <tr> <td>Tunicate</td> <td>---</td> <td>---</td> <td>---</td> <td>2</td> </tr> </tbody> </table> <p>* COMPOSITION:</p>		1, 128	2, 140	3, 20	5, 105	D	D	D	D	D	Algae	---	2	---	---	Bioclast	38	8	---	15	Calote	---	---	50	---	Clay	5	---	---	---	Coral	---	5	---	---	Dolomite	2	---	10	13	Feldspar	2	---	2	3	Foraminifers	5	60	3	10	Lithoclast	---	---	7	---	Micrite	20	---	15	20	Mollusk	---	5	---	---	Nannofossils	20	---	5	5	Pteropod	---	20	---	---	Quartz	5	---	5	10	Tunicate	---	---	---	2
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SITE 820 HOLE A CORE 14H CORED INTERVAL 121.2-130.7 mbsf

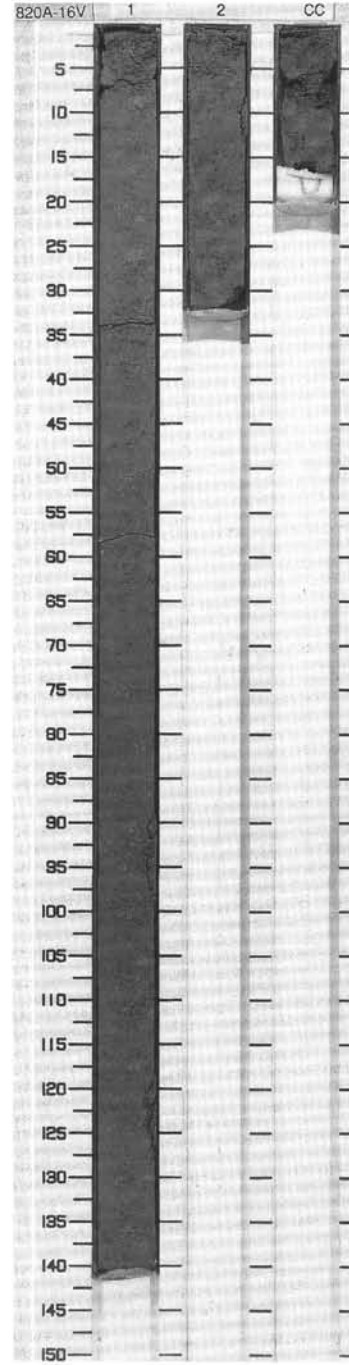
TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS		PHYS. PROPERTIES		SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																			
		FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONIS			CHEMISTRY																																																																																											
PLEISTOCENE									79.8%	1					<p>* CALCAREOUS OOZE with NANNOFOSSILS and CLAY to CLAYEY OOZE with CALCITE, BIOCLAISTS, SILICICLASTIC GRAINS, and NANNOFOSSILS</p> <p>Major lithology: CALCAREOUS OOZE with NANNOFOSSILS and CLAY occurs in Section 1, greenish (10Y 5/2) in color. CLAYEY CALCITIC OOZE, very firm, occurs in Section 3, 50-150 cm. CLAYEY OOZE with CALCITE, BIOCLAISTS, SILICICLASTIC GRAINS, and NANNOFOSSILS occurs in Sections 5 to 8. Drilling disturbance is caused by a shattered core liner. Burrows are filled with very fine to fine grained sand in Section 1, with coarse sand in Section 2.</p> <p>Minor lithology: BIOCLASTIC WACKESTONE to FLOATSTONE occurs in Section 2, 22-103 cm with <i>Halimeda</i>, and in Section 3, 0-48 cm. A silty ooze with <i>Halimeda</i> flakes occurs in an undisturbed interval of Section 5, 95-135 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>CF</td> <td></td> <td></td> </tr> <tr> <td>1, 26</td> <td>2, 82</td> <td>6, 33</td> <td></td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td></td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>2</td> <td>---</td> <td>1</td> </tr> <tr> <td>Bioclast</td> <td>6</td> <td>---</td> <td>12</td> </tr> <tr> <td>Bryozoa</td> <td>---</td> <td>25</td> <td>---</td> </tr> <tr> <td>Calcite</td> <td>18</td> <td>---</td> <td>18</td> </tr> <tr> <td>Clay</td> <td>25</td> <td>---</td> <td>30</td> </tr> <tr> <td>Coral</td> <td>---</td> <td>Tr</td> <td>---</td> </tr> <tr> <td>Dolomite</td> <td>3</td> <td>---</td> <td>3</td> </tr> <tr> <td>Feldspar</td> <td>1</td> <td>---</td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td>5</td> <td>25</td> <td>4</td> </tr> <tr> <td>Gastropod</td> <td>---</td> <td>5</td> <td>---</td> </tr> <tr> <td>Halimeda</td> <td>---</td> <td>36</td> <td>---</td> </tr> <tr> <td>Lithoclast</td> <td>---</td> <td>2</td> <td>---</td> </tr> <tr> <td>Micrite</td> <td>8</td> <td>---</td> <td>5</td> </tr> <tr> <td>Nannofossils</td> <td>20</td> <td>---</td> <td>20</td> </tr> <tr> <td>Pelecypod</td> <td>---</td> <td>5</td> <td>---</td> </tr> <tr> <td>Quartz</td> <td>7</td> <td>---</td> <td>5</td> </tr> <tr> <td>Spicules</td> <td>3</td> <td>---</td> <td>---</td> </tr> <tr> <td>Tunicate</td> <td>2</td> <td>---</td> <td>1</td> </tr> </table>		CF			1, 26	2, 82	6, 33		D	D	D		Accessory minerals	2	---	1	Bioclast	6	---	12	Bryozoa	---	25	---	Calcite	18	---	18	Clay	25	---	30	Coral	---	Tr	---	Dolomite	3	---	3	Feldspar	1	---	Tr	Foraminifers	5	25	4	Gastropod	---	5	---	Halimeda	---	36	---	Lithoclast	---	2	---	Micrite	8	---	5	Nannofossils	20	---	20	Pelecypod	---	5	---	Quartz	7	---	5	Spicules	3	---	---	Tunicate	2	---	1
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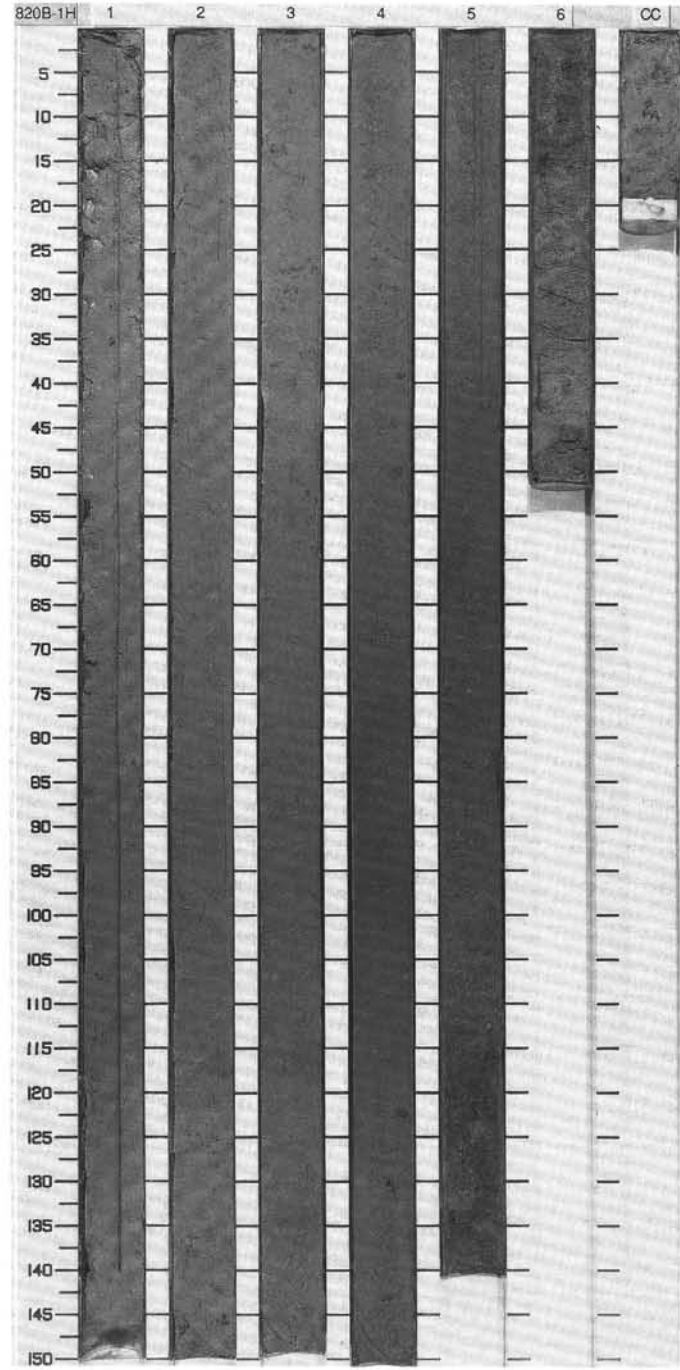


SITE 820 HOLE A CORE 16V CORED INTERVAL 140.2-144.2 mbsf

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									
PLEISTOCENE	R/P N22 - N23				N		● 60.7%	1	0.5				CLAYEY SILTY NANNOFOSSIL MIXED SEDIMENT with BIOCLASTS and SILICICLASTIC GRAINS Major lithology: This core contains a CLAYEY SILTY NANNOFOSSIL MIXED SEDIMENT with BIOCLASTS and SILICICLASTIC GRAINS, greenish gray (10Y 5/2) in color. SMEAR SLIDE SUMMARY (%): 1,70 D TW COMPOSITION: Accessory minerals 1 Bioclast 16 Calcite 18 Clay 28 Dolomite 7 Feldspar Tr Foraminifers 5 Nannofossils 14 Pteropod 1 Quartz 8 Spicules 1 Tunicate 1
	A/P CN13b						2	1.0					
					?		CC						

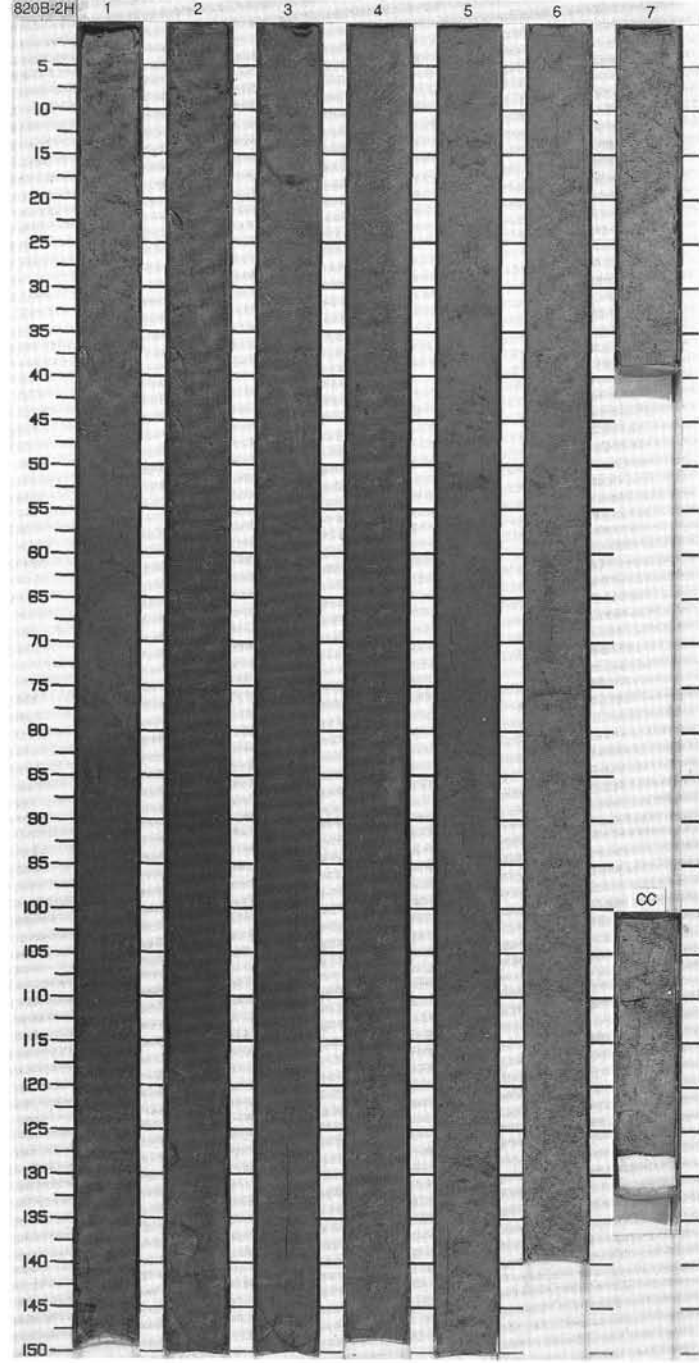


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																		
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS																											
PLEISTOCENE	N22 - N23	CN15		N			1	0.5	[Lithology symbols]			<p>NANNOFOSSIL CALCAREOUS MIXED SEDIMENT with BIOCLASTS</p> <p>Major Lithology: This core contains mud- to silt-sized NANNOFOSSIL CALCAREOUS MIXED SEDIMENT with BIOCLASTS. PTEROPODS occur throughout the core. The color changes gradually from greenish gray (10Y 5/2) to dark greenish gray (10Y 4/1) in Section 5.</p> <p>Minor lithology: Fine to medium sand-sized BIOCLASTIC PACKSTONE with QUARTZ in Section 5, 115-140 cm, and Section 6, 0-35 cm. The color is dark greenish gray (10Y 4/2 to 5Y 4/2).</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">6.20 D</p> <p>COMPOSITION:</p> <table style="margin-left: 40px;"> <tr><td>Accessory minerals</td><td>1</td></tr> <tr><td>Bioclast</td><td>30</td></tr> <tr><td>Clay</td><td>21</td></tr> <tr><td>Feldspar</td><td>1</td></tr> <tr><td>Foraminifers</td><td>15</td></tr> <tr><td>Nannofossils</td><td>20</td></tr> <tr><td>Quartz</td><td>9</td></tr> <tr><td>Spicules</td><td>1</td></tr> <tr><td>Tunicate</td><td>2</td></tr> </table>	Accessory minerals	1	Bioclast	30	Clay	21	Feldspar	1	Foraminifers	15	Nannofossils	20	Quartz	9	Spicules	1	Tunicate	2
								Accessory minerals	1																					
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1.0	[Lithology symbols]																													
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3	[Lithology symbols]																													
4	[Lithology symbols]																													
5	[Lithology symbols]																													
6	[Lithology symbols]																													
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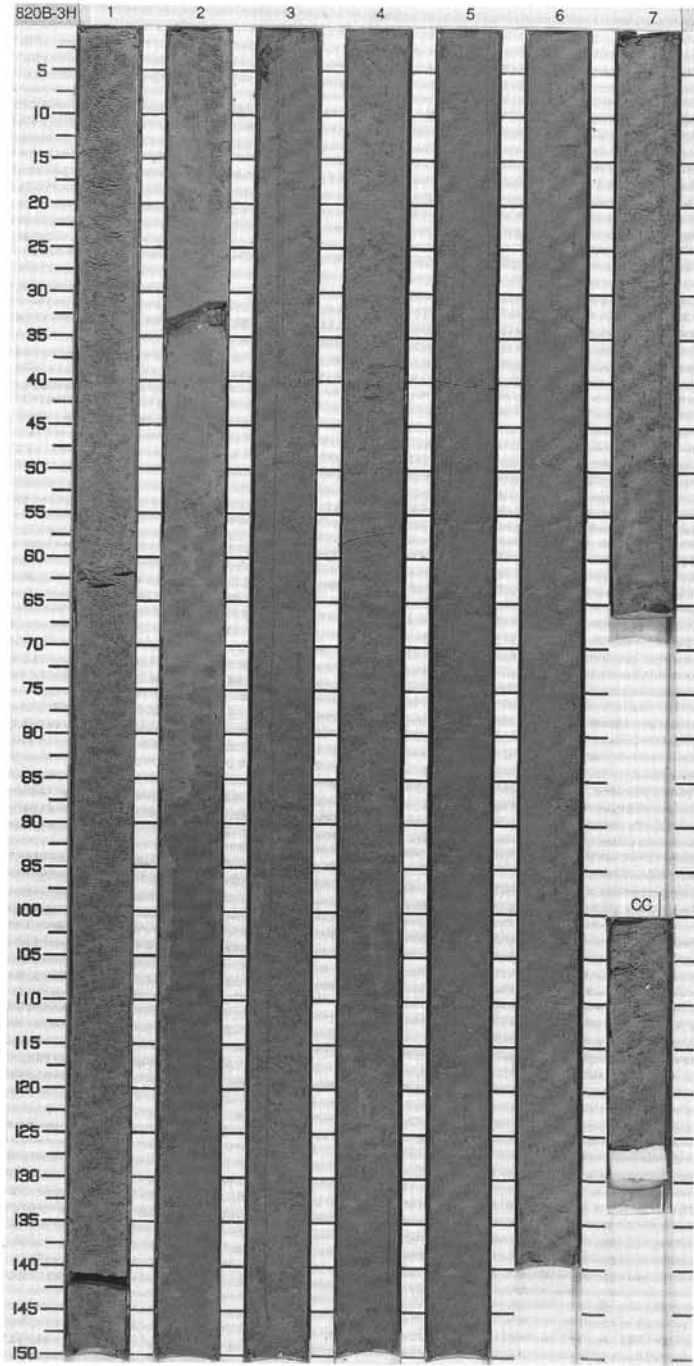


SITE 820 HOLE B CORE 2H CORED INTERVAL 8.2-17.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	MAMMOFOSILS	RADIOLARIANS									
PLEISTOCENE												<p>BIOCLASTIC CALCAREOUS MIXED SEDIMENT with FORAMINIFERS and PTEROPODS</p> <p>Major Lithology: Greenish gray (5Y 4/2) to dark greenish gray (5GY 4/1), silty BIOCLASTIC CALCAREOUS MIXED SEDIMENT in Section 1, additionally with PTEROPODS in the remaining sections. In Section 6 the sediment coarsens downcore from fine sand-sized to medium sand-sized. The color changes from gray green (10Y 5/2) to lighter gray green. FORAMINIFERS occur in higher abundance. Burrows are infilled with coarser grained sediments.</p>
A/G	N22 - N23						1	0.5				
	CN15						2	1.0				
				N			3					
				N			4					
				N			5					
				N			6					
							7					
							CC					



TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS									
PLEISTOCENE	N22 - N23	CN15		N		1	0.5					<p>BIOCLASTIC CALCAREOUS MIXED SEDIMENT</p> <p>Major Lithology: This core contains silty to fine sandy BIOCLASTIC CALCAREOUS MIXED SEDIMENT, gray green (10Y 6/2) colored. Clay is mixed with the silt in Section 2. PTEROPODS occur throughout the core. Burrows are filled with coarser bioclastic grains. Variations in the sand grain size from very fine to medium sized was noted in Section 4.</p>
			1.0									
	N22 - N23	CN15		N		2	1.0					
			1.5									
	N22 - N23	CN15		N		3	1.5					
			2.0									
	N22 - N23	CN15		N		4	2.0					
2.5												
N22 - N23	CN15		N		5	2.5						
		3.0										
N22 - N23	CN15		N		6	3.0						
		3.5										
N22 - N23	CN15		N		7	3.5						
		4.0										
A/G						CC						



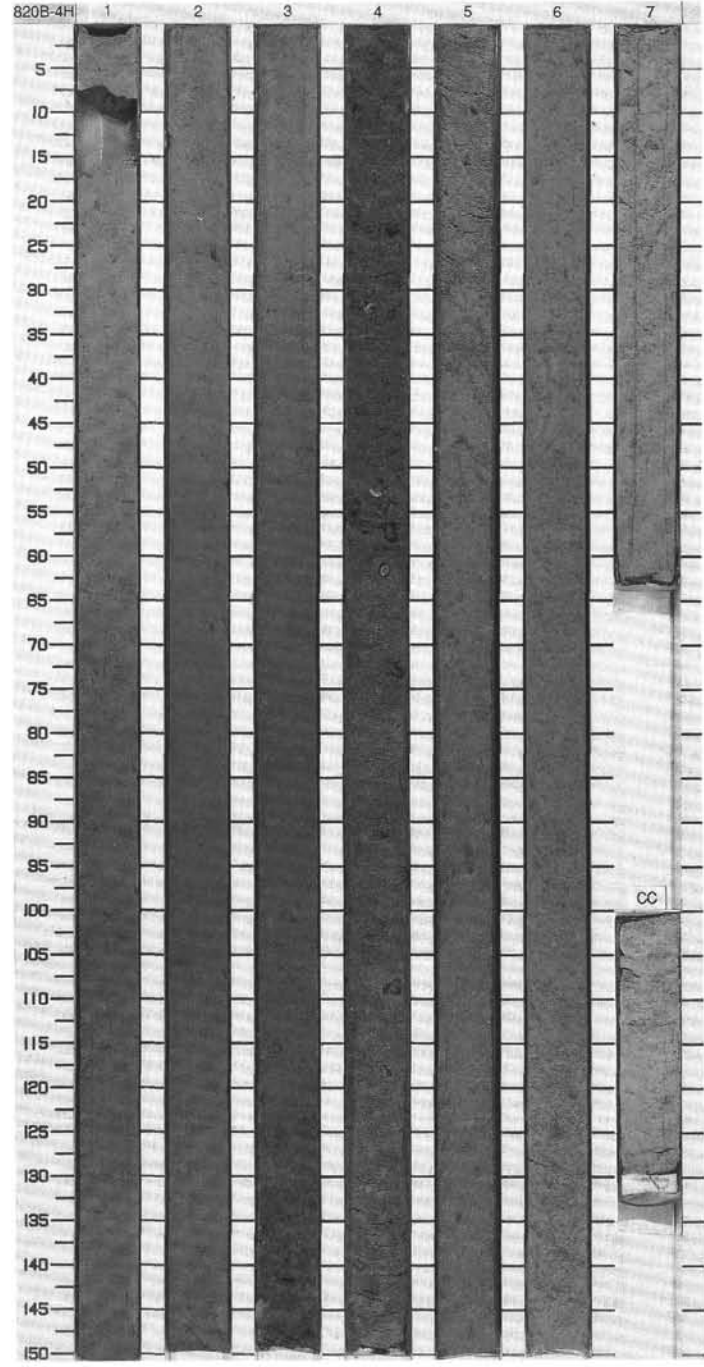
SITE 820 HOLE B CORE 4H CORED INTERVAL 27.2-36.7 mbsf										
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS						
PLEISTOCENE	N22 - N23				N				0.5	[Pattern]
	CN15									
	A/G				N				1.0	[Pattern]
					R				2.0	[Pattern]
				R				3.0	[Pattern]	
				N				4.0	[Pattern]	
				N				5.0	[Pattern]	
				N				6.0	[Pattern]	
				N				7.0	[Pattern]	
				CC						

LITHOLOGIC DESCRIPTION

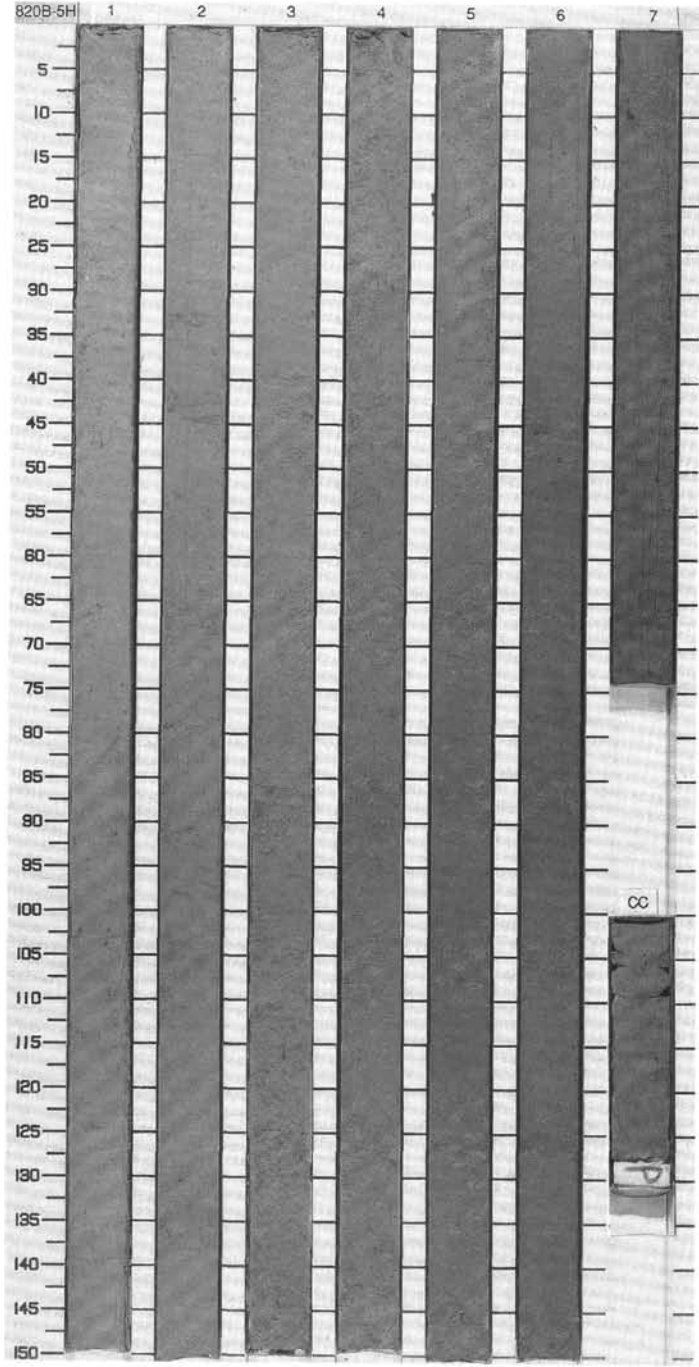
BIOCLASTIC CALCAREOUS MUD

Major Lithology: BIOCLASTIC CALCAREOUS MUD. The color is greenish gray (10Y 5/1) to light greenish gray (10Y 6/1). NANNOFOSSILS in minor amounts occur in Section 6.

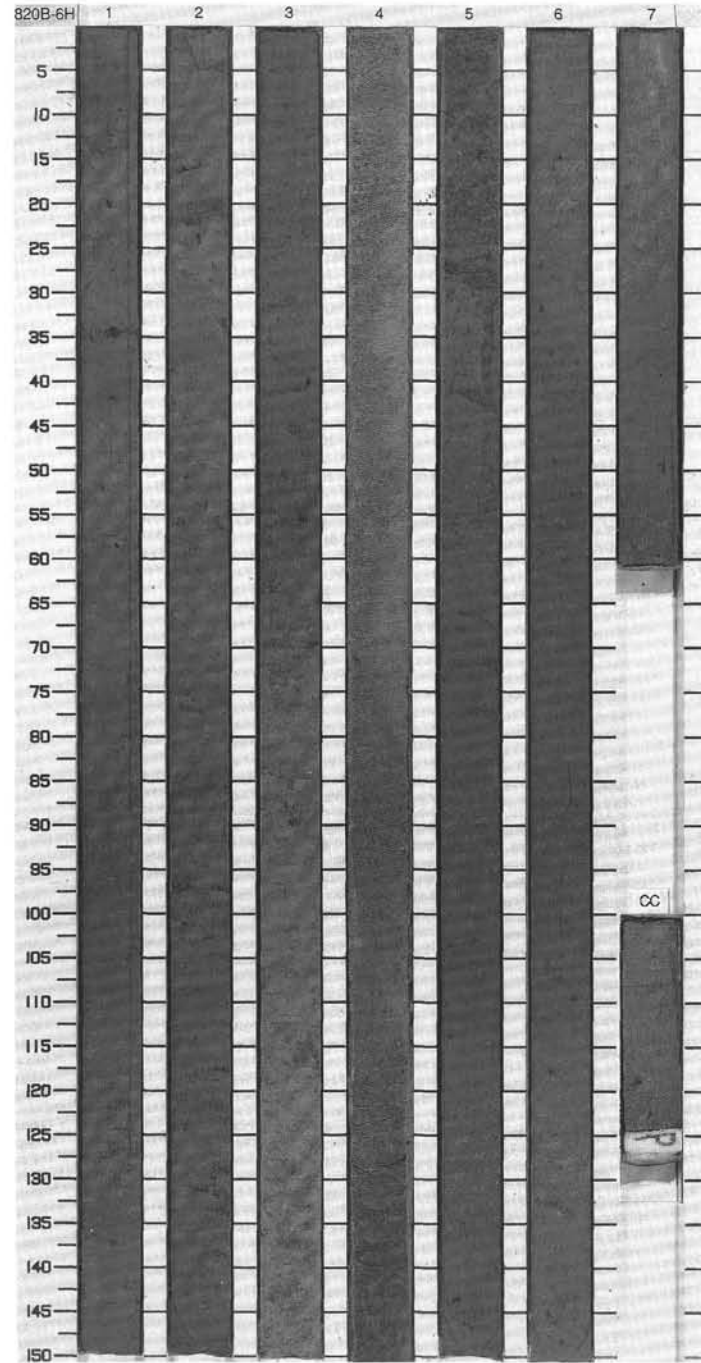
Minor Lithology: BIOCLASTIC FORAMINIFER PACKSTONE to FLOATSTONE, very dark grayish brown (2.5Y 3/2) to olive gray (5Y 5/2) in color, occurs in Section 4 and the top of Section 5. The largest clasts (~1 cm) are RHODOLITHS and LITHOCLASTS. The others are SHELL FRAGMENTS. BIOCLASTS include CORALS, CORALLINE ALGAE, MOLLUSCS, PTEROPODS, ECHINOIDS, and ALCYONARIAN SPICULES. Abundant FORAMINIFERS (60.40 planktonic:benthic) occur. This interval is fine grained at the base of Section 4.



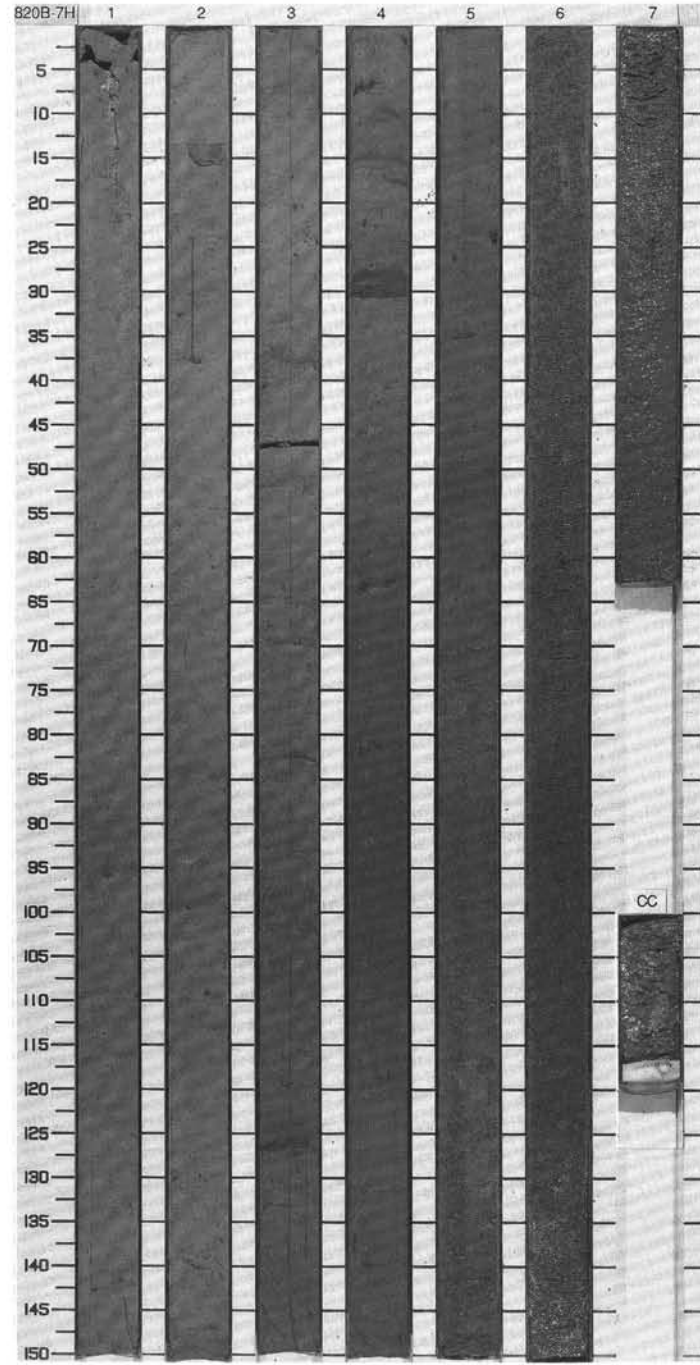
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS											
PLEISTOCENE	N22 - N23					1	0.5				BIOCLASTIC CALCAREOUS MIXED SEDIMENT Major Lithology: Slightly bioturbated, clayey BIOCLASTIC CALCAREOUS MIXED SEDIMENT. Bioclasts are mainly silt-sized. The color is grayish green (10Y 6/1) in the first four sections, becoming darker downcore (10Y 5.5/1 to 10Y 5/1). In Section 3 the grain size of the sediment changes from clayey silt to very fine to fine sand. NANNOFOSSILS are a minor modifier in Sections 4 to 7. Fining (very fine sand- to silt-size) and darkening (10Y 6/1 to 10Y 5.5/1) downcore occurs in Section 4. The infill in the burrows is coarser sediment, dominated by FORAMINIFERS. PTEROPODS are present throughout the core.				
	CN14b														
	A/G										N	2	1.0		
				N	3										
				N	4										
				N	5										
				N	6										
				N	7										
				CC											



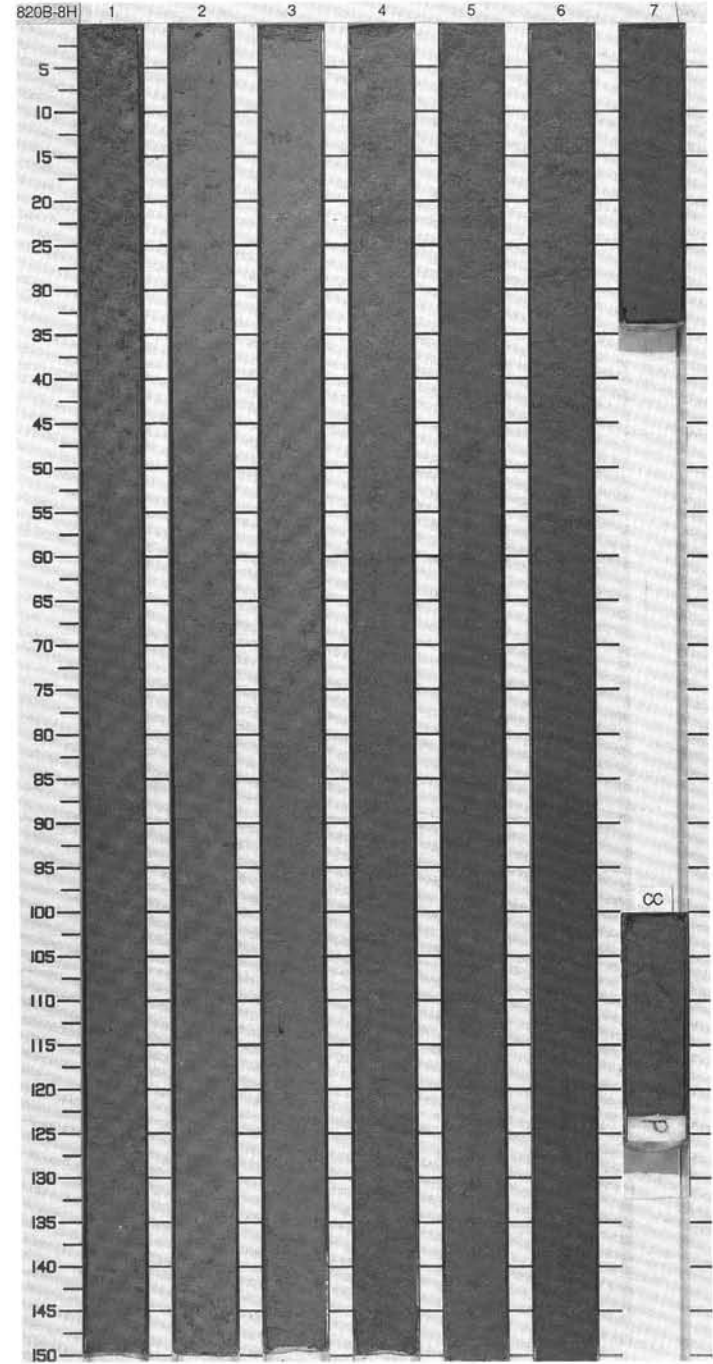
TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS												
PLEISTOCENE															
A/G		N22 - N23 CN14b													
						N			1						
						N			2						
						N			3						
						N			4						
						N			5						
						?									
						N			6						
						N			7						
									CC						



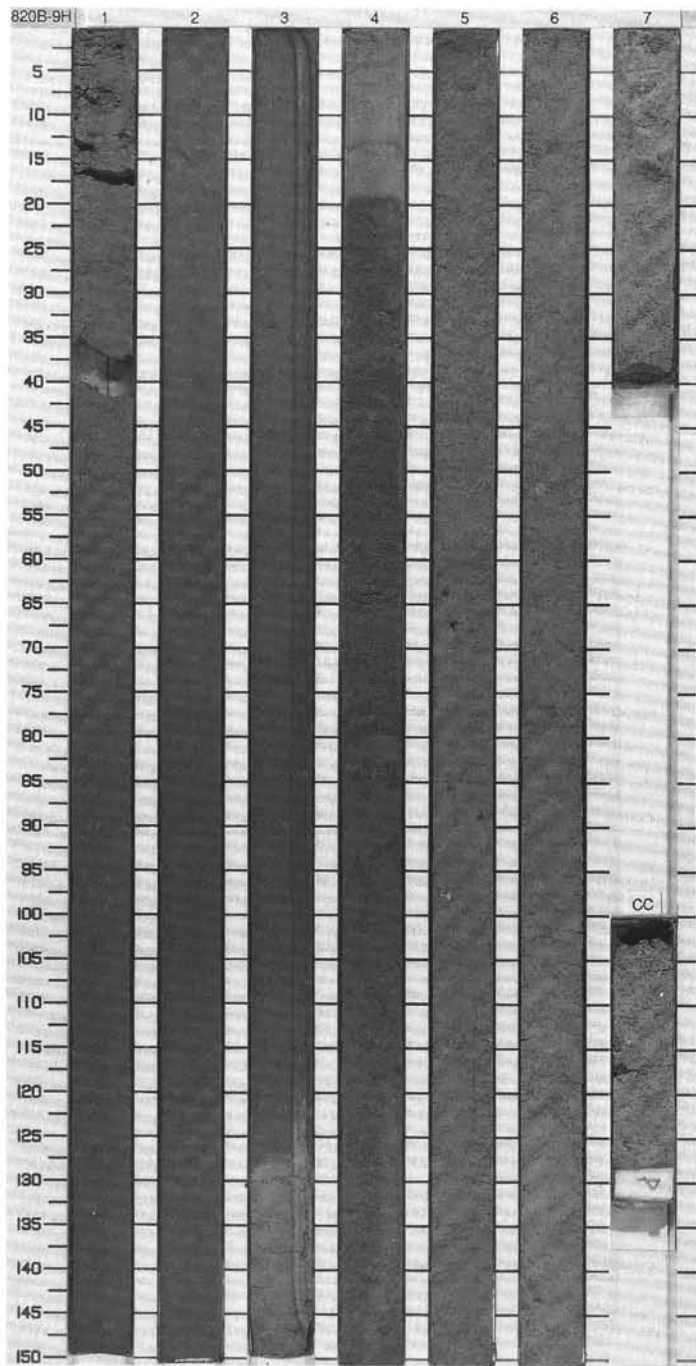
TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
PLEISTOCENE												
	N22 - N23	CN14b		N			0.5					<p>BIOCLASTIC CALCAREOUS MIXED SEDIMENT with NANNOFOSSILS to CALCAREOUS MUD</p> <p>Major Lithology: This core contains slightly bioturbated, clayey BIOCLASTIC CALCAREOUS MIXED SEDIMENT with NANNOFOSSILS. The color in the first three sections is grayish green (10Y 5/1), changing into a light brownish gray (10Y 6/2) and grayish brown (10Y 5/2 to 2.5Y 5/2), sandy CALCAREOUS MUD. Burrows are filled with pyritized BENTHIC FORAMINIFERS. PTEROPODS were found scattered throughout the core.</p>
	A/G			N			1.0					
				N			2.0					
				N			3.0					
				N			4.0					
				N			5.0					
				N			6.0					
				N			7.0					
							CC					



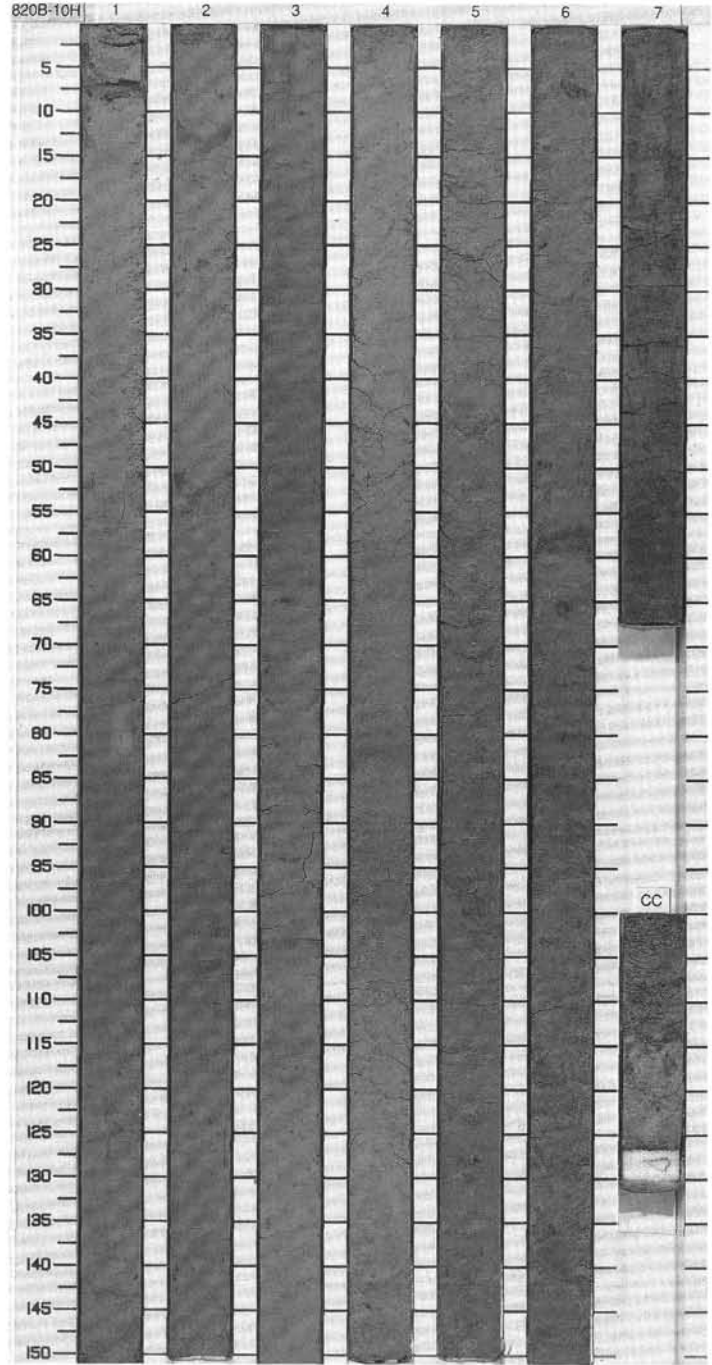
TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																														
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																								
PLEISTOCENE		N22 - N23											<p>BIOCLASTIC CALCAREOUS MIXED SEDIMENT with NANNOFOSSILS to CALCAREOUS MUD to CALCAREOUS MUD with NANNOFOSSILS</p> <p>Major Lithology: Clayey BIOCLASTIC CALCAREOUS MIXED SEDIMENT with NANNOFOSSILS, greenish gray (10Y 5/1) to light greenish gray (10Y 6/2). Infillings of burrows are pyritized BIOCLASTS. Sandy pockets occur throughout Section 4. The base of these infills has a higher amount of FORAMINIFERS and PTEROPODS. The color changes to dark greenish gray (10Y 5/2) at the base of Section 4 with the occurrence of a silty CALCAREOUS MUD. The color in Section 7 is dark greenish gray (10Y 4/1). A CALCAREOUS MUD with NANNOFOSSILS occurs in Section 6, 80-150 cm, and in Section 7.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>5, 119</td> <td>7, 25</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Bioclast</td> <td>10</td> <td>15</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>15</td> </tr> <tr> <td>Foraminifers</td> <td>5</td> <td>Tr</td> </tr> <tr> <td>Intraclasts</td> <td>10</td> <td>10</td> </tr> <tr> <td>Micrite</td> <td>15</td> <td>10</td> </tr> <tr> <td>Nannofossils</td> <td>30</td> <td>38</td> </tr> <tr> <td>Quartz</td> <td>10</td> <td>10</td> </tr> <tr> <td>Tunicate</td> <td>---</td> <td>2</td> </tr> </table>		5, 119	7, 25	D	D	D	Bioclast	10	15	Clay	20	15	Foraminifers	5	Tr	Intraclasts	10	10	Micrite	15	10	Nannofossils	30	38	Quartz	10	10	Tunicate	---	2
	5, 119	7, 25																																									
D	D	D																																									
Bioclast	10	15																																									
Clay	20	15																																									
Foraminifers	5	Tr																																									
Intraclasts	10	10																																									
Micrite	15	10																																									
Nannofossils	30	38																																									
Quartz	10	10																																									
Tunicate	---	2																																									
				N			1																																				
				N			2																																				
				N			3																																				
				N			4																																				
				N			5																																				
				N			6																																				
				N			7																																				
							CC																																				



TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SEP. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION	
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS DIATOMS									
PLEISTOCENE N22 - N23 CNI 4b A/P				N		1	0.5 1.0				<p>BIOCLASTIC CALCAREOUS MUD with CLAY to BIOCLASTIC NANNOFOSSIL OOZE</p> <p>Major Lithology: This core contains dark gray (10Y 4/1) BIOCLASTIC CALCAREOUS MUD with CLAY to gray (5Y 4/1) BIOCLASTIC NANNOFOSSIL OOZE. Very small pyrite crystals are dispersed throughout Section 2.</p> <p>Minor lithology: An intercalation of BIOCLASTIC NANNOFOSSIL OOZE with BIOCLASTIC WACKESTONE/PACKSTONE occurs in Section 3, 127-150 cm, underlain by a sandy to silty BIOCLASTIC PACKSTONE, dark gray (5Y 4/1), in Section 4, 20-80 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>3, 134 D</p> <p>TEXTURE:</p> <p>Sand 40 Silt 60</p> <p>COMPOSITION:</p> <p>Bioclast 30 Feldspar 3 Foraminifers 5 Mica 3 Nannofossils 40 Quartz 10 Rock fragment 4 Siliceous sponge spicules 2 Tunicate 3</p>	
				N		2						
				N		3						
				N		4						
				N		5						
				N		6						
						7						

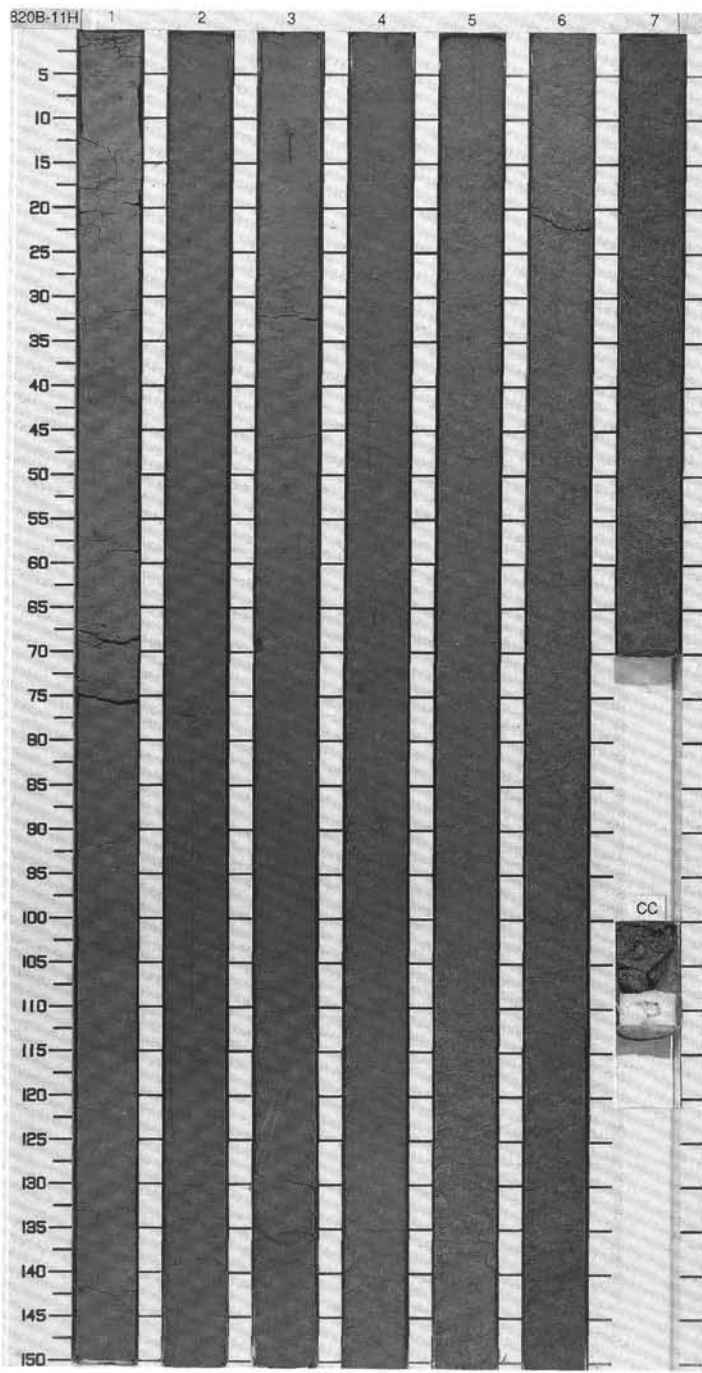


SITE 820 HOLE B		CORE 10H		CORED INTERVAL 84.2-93.7 mbsf																																													
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS											DIATOMS																																			
PLEISTOCENE	N22 - N23 CN14b			N				0.5 1.0	[Graphic Lithology: Section 1]	[Disturbance Symbols]	[Structure Symbols]	[Sample Symbols]	<p>BIOCLASTIC CALCAREOUS MIXED SEDIMENT with CLAY to BIOCLASTIC CALCAREOUS MUD with NANNOFOSSILS and DOLOMITE</p> <p>Major Lithology: Light greenish gray (10Y 6/2), silty to sandy BIOCLASTIC CALCAREOUS MIXED SEDIMENT with CLAY. BIOCLASTIC CALCAREOUS MUD with NANNOFOSSILS and DOLOMITE occurs in Section 3. Larger burrows are filled with a sandy silt; the smaller burrows with black (pyritized?) sand. In Section 2, the infilling material is DOLOMITIZED NANNOFOSSIL OOZE with CLAY.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>2.52</td> <td>CC, 20</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>* COMPOSITION:</p> <table border="0"> <tr> <td>Bioclast</td> <td>5</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>15</td> <td>15</td> </tr> <tr> <td>Dolomite</td> <td>20</td> <td>---</td> </tr> <tr> <td>Feldspar</td> <td>---</td> <td>2</td> </tr> <tr> <td>Foraminifers</td> <td>2</td> <td>4</td> </tr> <tr> <td>Intraclasts</td> <td>10</td> <td>15</td> </tr> <tr> <td>Micrite</td> <td>12</td> <td>10</td> </tr> <tr> <td>Nannofossils</td> <td>35</td> <td>32</td> </tr> <tr> <td>Quartz</td> <td>---</td> <td>10</td> </tr> <tr> <td>Tunicate</td> <td>1</td> <td>2</td> </tr> </table>		2.52	CC, 20	D	D	D	Bioclast	5	10	Clay	15	15	Dolomite	20	---	Feldspar	---	2	Foraminifers	2	4	Intraclasts	10	15	Micrite	12	10	Nannofossils	35	32	Quartz	---	10	Tunicate	1	2
															2.52	CC, 20																																	
														D	D	D																																	
														Bioclast	5	10																																	
														Clay	15	15																																	
														Dolomite	20	---																																	
														Feldspar	---	2																																	
Foraminifers	2	4																																															
Intraclasts	10	15																																															
Micrite	12	10																																															
Nannofossils	35	32																																															
Quartz	---	10																																															
Tunicate	1	2																																															
				N				2	[Graphic Lithology: Section 2]	[Disturbance Symbols]	[Structure Symbols]	[Sample Symbols]																																					
				N				3	[Graphic Lithology: Section 3]	[Disturbance Symbols]	[Structure Symbols]	[Sample Symbols]																																					
				N				4	[Graphic Lithology: Section 4]	[Disturbance Symbols]	[Structure Symbols]	[Sample Symbols]																																					
				N				5	[Graphic Lithology: Section 5]	[Disturbance Symbols]	[Structure Symbols]	[Sample Symbols]																																					
				N				6	[Graphic Lithology: Section 6]	[Disturbance Symbols]	[Structure Symbols]	[Sample Symbols]																																					
				N				7	[Graphic Lithology: Section 7]	[Disturbance Symbols]	[Structure Symbols]	[Sample Symbols]																																					
							CC		[Graphic Lithology: Core Cap]	[Disturbance Symbols]	[Structure Symbols]	[Sample Symbols]																																					



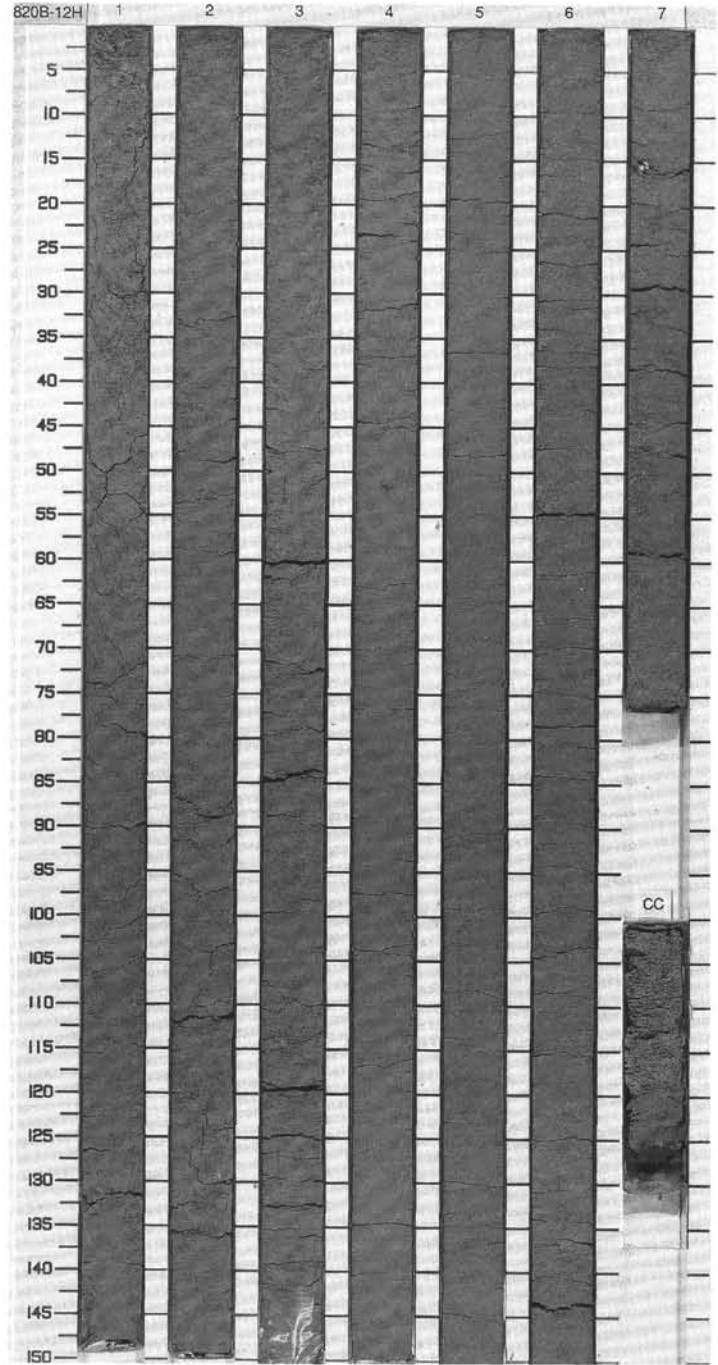
SITE 820 HOLE B CORE 11H CORED INTERVAL 93.7-103.2 mbsf

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	DIAZONS										
PLEISTOCENE					N			1	0.5	[Pattern]				<p>BIOCLASTIC NANNOFOSSIL OOZE with CLAY to BIOCLASTIC CALCAREOUS MUD with CLAY</p> <p>Major Lithology: Gray (5Y 5/1), BIOCLASTIC NANNOFOSSIL OOZE with CLAY in Section 1 to BIOCLASTIC CALCAREOUS MUD with CLAY with fine sandy (bioclastic) intercalations, slightly disturbed by bioturbation. A lithology with a higher clay content and slightly darker gray (4Y 4/1 to 5Y 4/1) color occurs in Section 6, 130-150 cm, and in Section 7.</p> <p>SMEAR SLIDE SUMMARY (%): 5. 82 D</p> <p>COMPOSITION: Bioclast 26 Dolomite 5 Feldspar 4 Foraminifers 5 Mica 4 Micrite 30 Nannofossils 7 Quartz 10 Rock fragment 8 Siliceous sponge spicules Tr</p>
A/M	N22 - N23				N		2	1.0	[Pattern]					
	CN1 4b				N		3	[Pattern]						
					N		4	[Pattern]						
					N		5	[Pattern]						
					N		6	[Pattern]						
					?		7	[Pattern]						

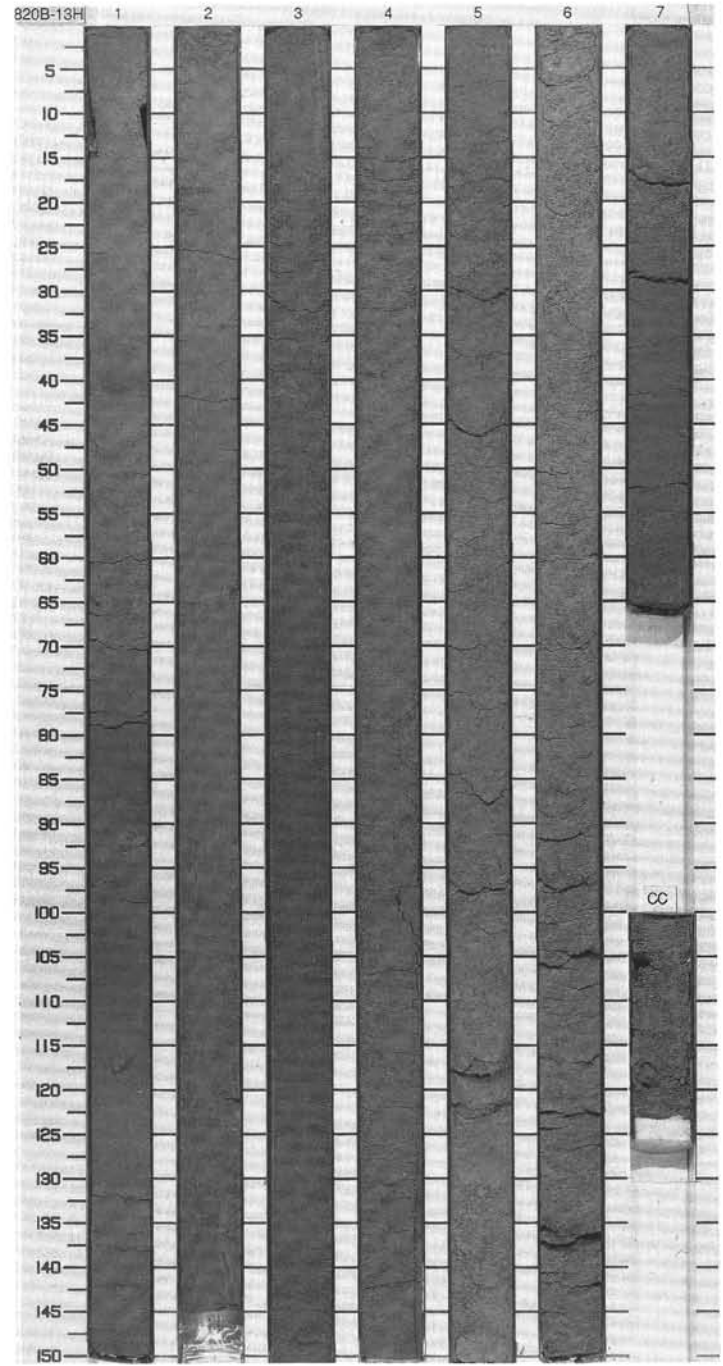


SITE 820 HOLE B CORE 12H CORED INTERVAL 103.2-112.7 mbsf

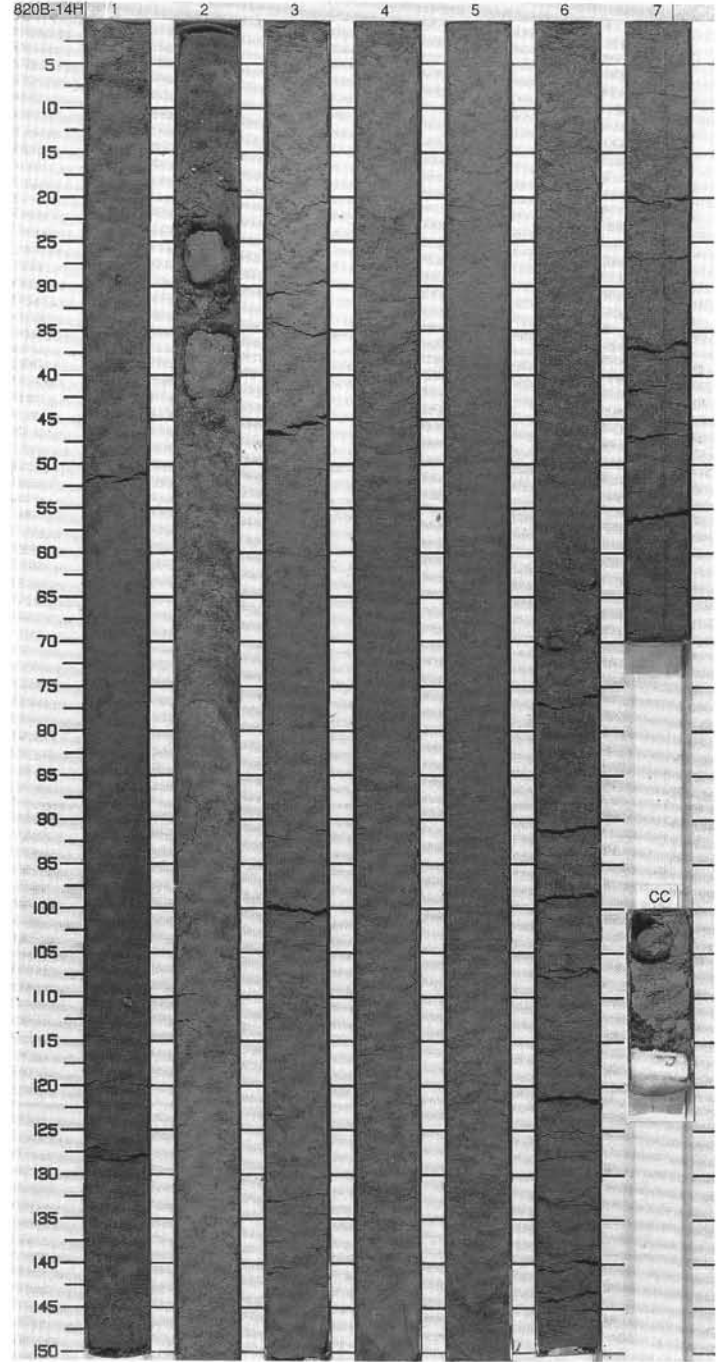
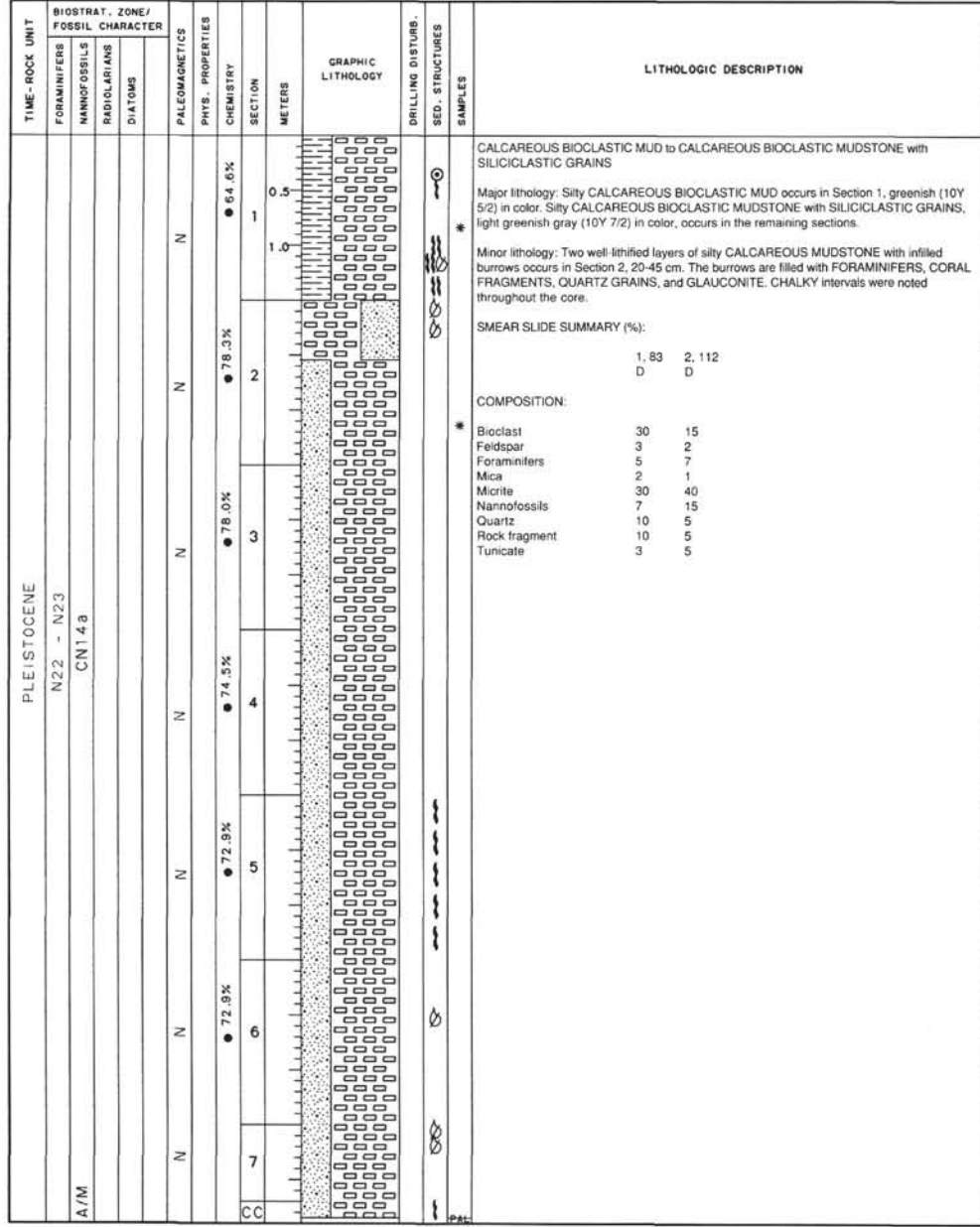
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																														
PLEISTOCENE N22 - N23 CN14a					?				0.5					<p>CALCAREOUS BIOCLASTIC MUD</p> <p>Major lithology: This core contains light greenish gray (10Y 6/1), silty CALCAREOUS BIOCLASTIC MUD, to dark greenish gray (10Y 5/2), clayey CALCAREOUS BIOCLASTIC MUD. NANNOFOSSILS as minor modifiers occur in Section 3, 145-150 cm, and in Section 4, 0-40 cm. Chalky intervals 2 to 3 cm thick occur throughout this core.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="padding-left: 40px;">3, 144 D</p> <p>COMPOSITION:</p> <table style="margin-left: 20px;"> <tr><td>Bioclast</td><td>10</td></tr> <tr><td>Clay</td><td>10</td></tr> <tr><td>Dolomite</td><td>Tr</td></tr> <tr><td>Feldspar</td><td>Tr</td></tr> <tr><td>Foraminifers</td><td>3</td></tr> <tr><td>Micrite</td><td>20</td></tr> <tr><td>Nannofossils</td><td>48</td></tr> <tr><td>Quartz</td><td>2</td></tr> <tr><td>Spicules</td><td>1</td></tr> <tr><td>Tunicate</td><td>1</td></tr> </table>	Bioclast	10	Clay	10	Dolomite	Tr	Feldspar	Tr	Foraminifers	3	Micrite	20	Nannofossils	48	Quartz	2	Spicules	1	Tunicate	1
	Bioclast	10																																
	Clay	10																																
	Dolomite	Tr																																
	Feldspar	Tr																																
	Foraminifers	3																																
	Micrite	20																																
Nannofossils	48																																	
Quartz	2																																	
Spicules	1																																	
Tunicate	1																																	
					N			1.0																										
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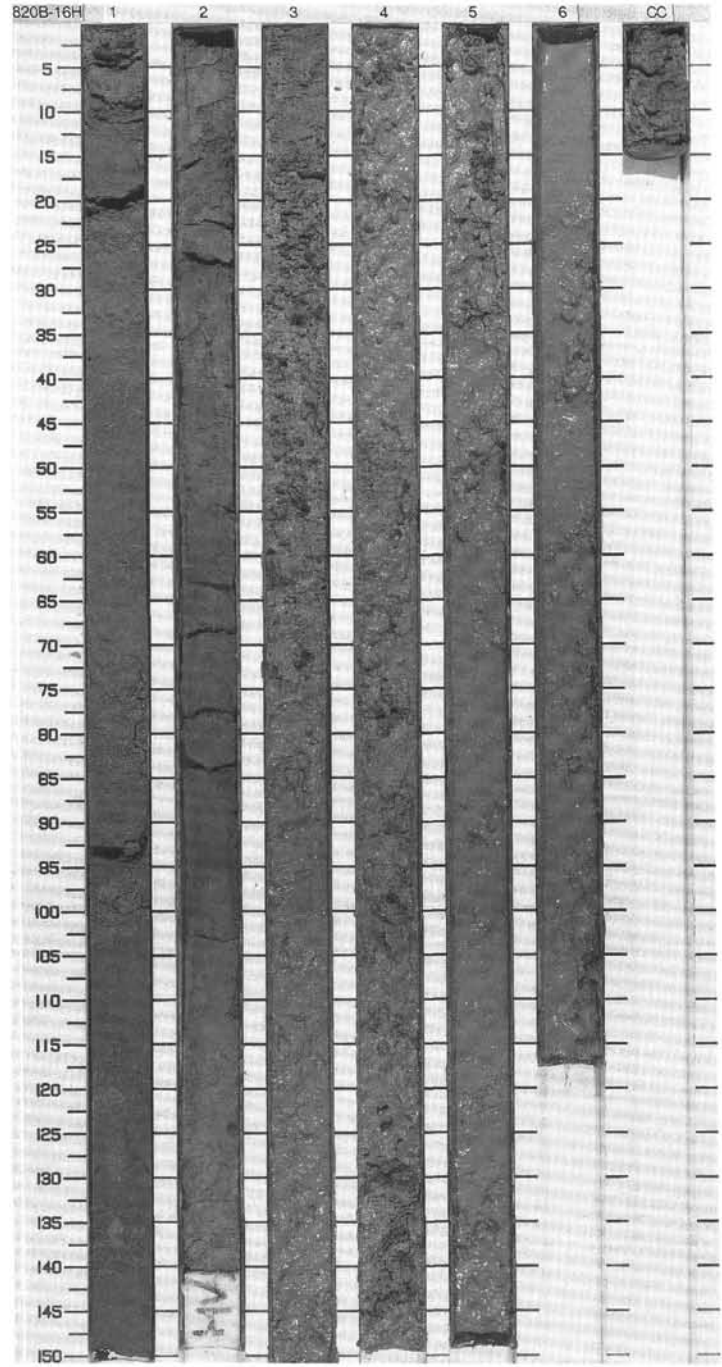
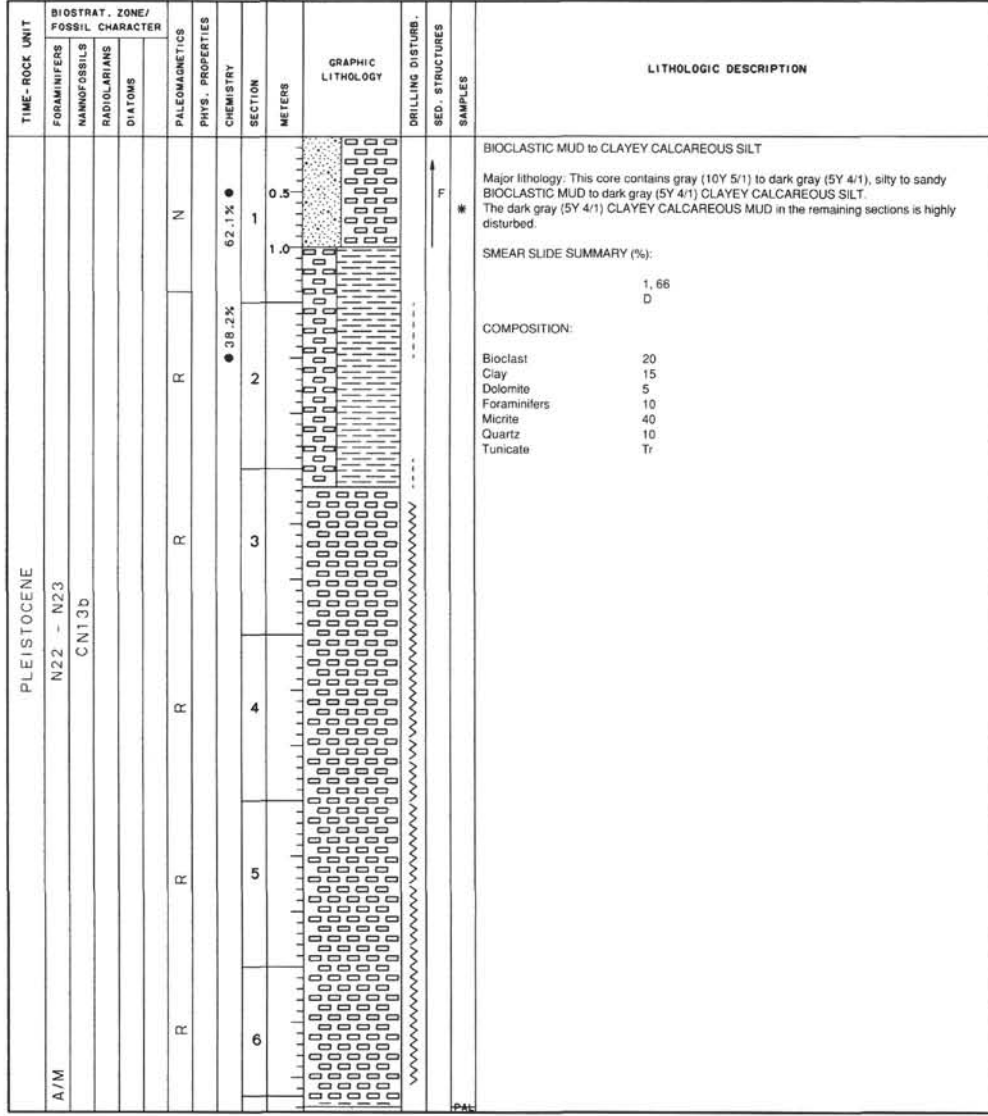
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																												
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS																																																						
PLEISTOCENE	N22 - N23 CN14B			N			1	0.5 1.0					<p>BIOLASTIC CALCAREOUS MUDSTONE to MUD to CALCAREOUS MUD</p> <p>Major lithology: This core contains partially lithified to unlithified BIOLASTIC CALCAREOUS MUDSTONE to MUD, light greenish green (10Y 5/1) to darker grayish green (10Y 4/1) in color. Dark grayish green (10Y 4/1) sandy CALCAREOUS MUD occurs in Section 4. NANNOFOSSILS as minor modifiers occur in Sections 5 to 7. The sediment color in these sections is light grayish green (10Y 6/1).</p> <p>Minor lithology: Unlithified BIOLASTIC WACKESTONE occurs in Section 3, 30-90 cm, and in the core catcher.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">5, 40 D</p> <p>COMPOSITION:</p> <p>Bioclast 10 Dolomite 5 Foraminifers 15 Inorganic calcite 60 Quartz 10</p>																																												
														2																																											
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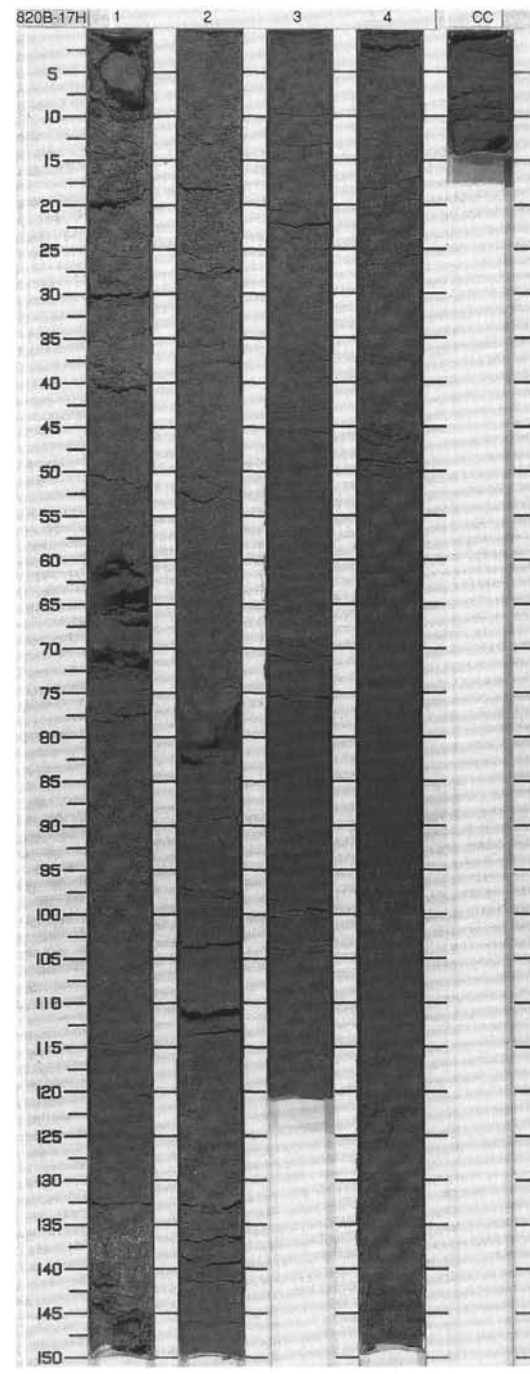
SITE 820 HOLE B CORE 14H CORED INTERVAL 122.2-131.7 mbsf



SITE 820 HOLE B CORE 16H CORED INTERVAL 141.2-150.7 mbsf

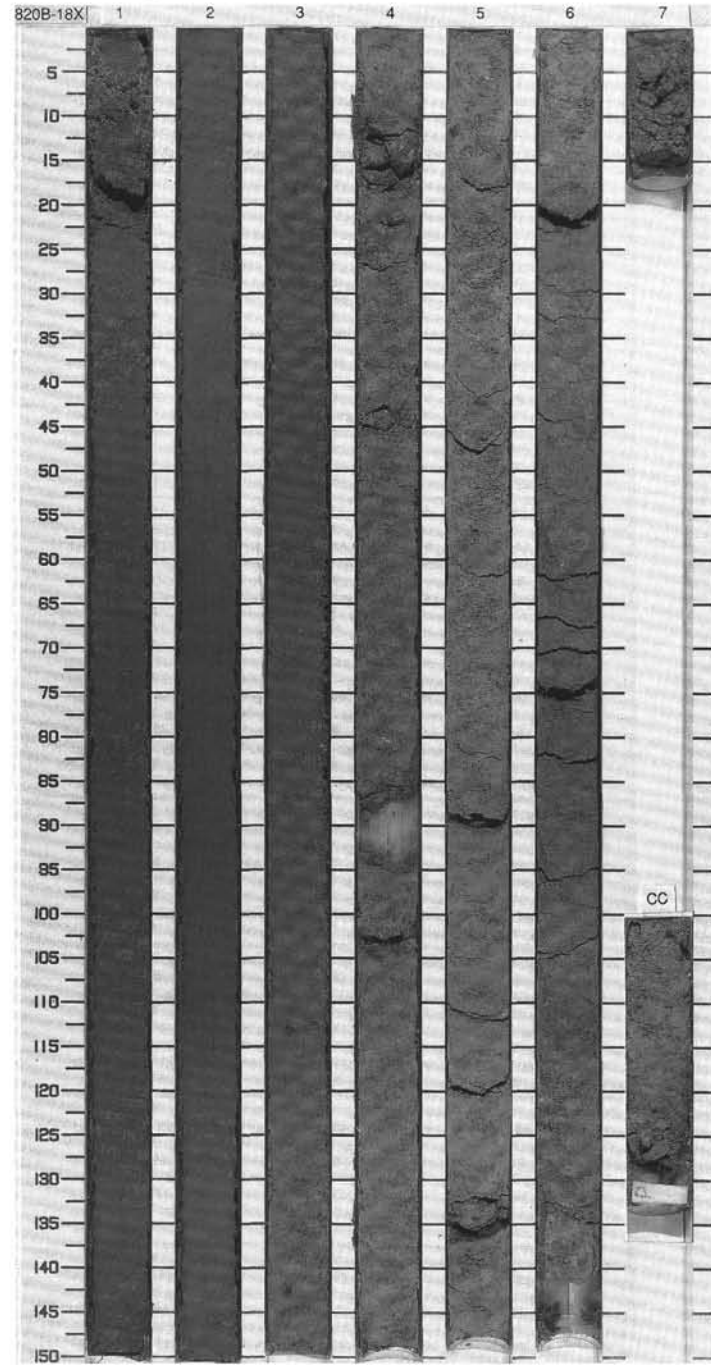


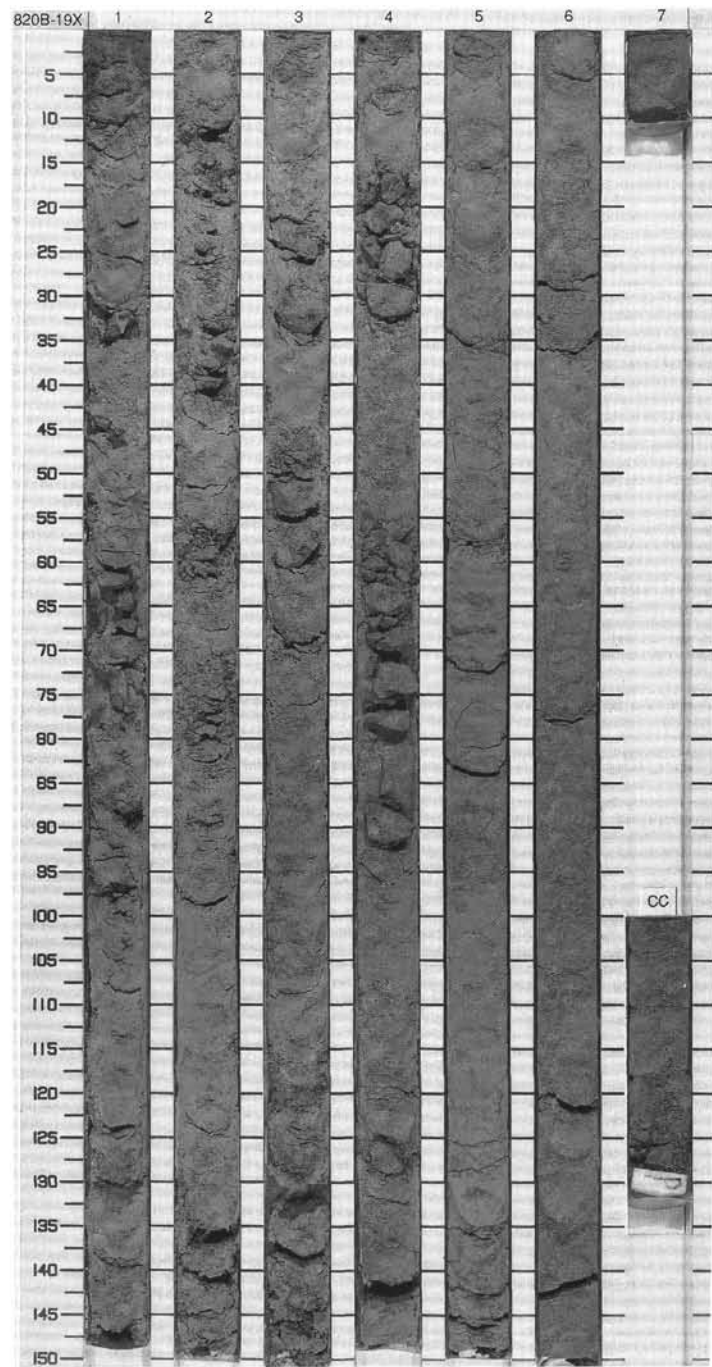
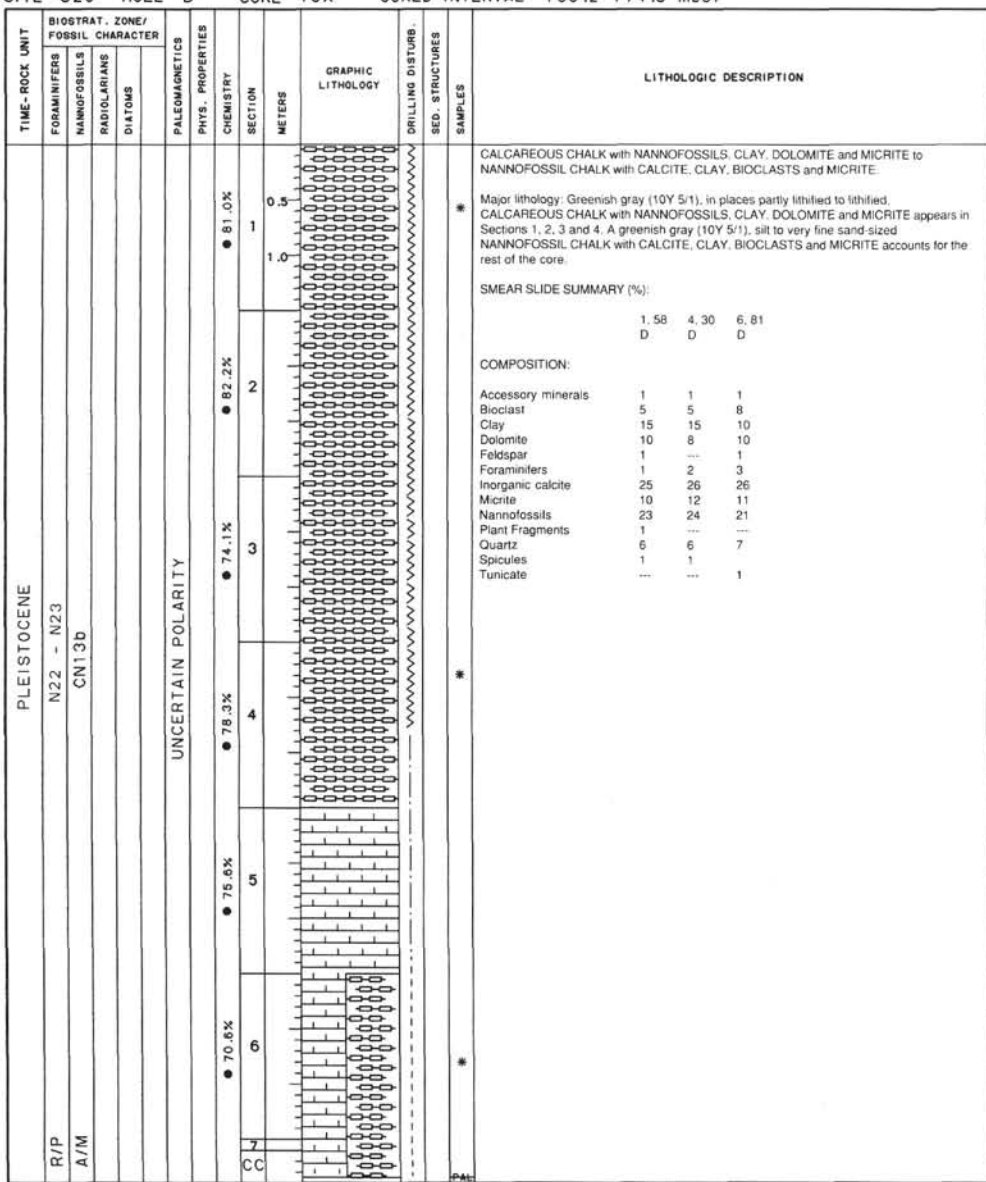
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETIC	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																								
PLEISTOCENE		N			1	0.5 1.0					<p>BIOCLASTIC CLAYEY PACKSTONE with NANNOFOSSILS and MICRITE to BIOCLASTIC CLAYEY MIXED SEDIMENT to BIOCLASTIC CLAYEY MIXED SEDIMENT</p> <p>Major lithology: Gray (5Y 5/1), unlithified to partly lithified, BIOCLASTIC CLAYEY PACKSTONE with NANNOFOSSILS and MICRITE occurs in Section 1 and Section 2 up to 95 cm. Gray (5Y 5/1), partly lithified, silty, BIOCLASTIC CLAYEY MIXED SEDIMENT passing down to CALCAREOUS NANNOFOSSIL MIXED SEDIMENT account for the rest of Section 2, the whole Section 3 and Section 4, up to 60 cm. The rest of the core is a dark gray (5Y 3/1), silty BIOCLASTIC CLAY MIXED SEDIMENT.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td>1, 98</td> <td>4, 78</td> </tr> <tr> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Bioclast</td> <td>40</td> <td>7</td> </tr> <tr> <td>Clay</td> <td>5</td> <td>15</td> </tr> <tr> <td>Dolomite</td> <td>5</td> <td>...</td> </tr> <tr> <td>Feldspar</td> <td>...</td> <td>2</td> </tr> <tr> <td>Foraminifers</td> <td>...</td> <td>3</td> </tr> <tr> <td>Glaucinite</td> <td>...</td> <td>1</td> </tr> <tr> <td>Intraclasts</td> <td>...</td> <td>10</td> </tr> <tr> <td>Lithoclast</td> <td>2</td> <td>...</td> </tr> <tr> <td>Micrite</td> <td>20</td> <td>20</td> </tr> <tr> <td>Nannofossils</td> <td>20</td> <td>30</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>8</td> </tr> <tr> <td>Tunicate</td> <td>3</td> <td>3</td> </tr> </table>	1, 98	4, 78	D	D	Bioclast	40	7	Clay	5	15	Dolomite	5	...	Feldspar	...	2	Foraminifers	...	3	Glaucinite	...	1	Intraclasts	...	10	Lithoclast	2	...	Micrite	20	20	Nannofossils	20	30	Quartz	5	8	Tunicate	3	3
1, 98	4, 78																																																		
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Nannofossils	20	30																																																	
Quartz	5	8																																																	
Tunicate	3	3																																																	
A/G	N22 - N23 CN13b	N		● 47.2%	2																																														
		N		● 40.4%	3																																														
		N		● 36.8%	4																																														
					CC																																														
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SITE 820 HOLE B CORE 18X CORED INTERVAL 160.2-165.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																												
PLEISTOCENE	N22 - N23 CN13b				UNCERTAIN POLARITY		● 48.3%	0.5				<p>CLAYEY NANNOFOSSIL MIXED SEDIMENT with QUARTZ and MICRITE to NANNOFOSSIL OOZE with CLAY, MICRITE and BIOCLASTS to NANNOFOSSIL MIXED SEDIMENT with CALCITE, CLAY, BIOCLASTS and MICRITE</p> <p>Major lithology: At the top of the core (Sections 1, 2 and 3) the dominant lithofacies is a dark gray (5Y 4/1), bioturbated, CLAYEY NANNOFOSSIL MIXED SEDIMENT with QUARTZ and MICRITE. In Sections 4 and 5 a light gray (5Y 6/1) NANNOFOSSIL OOZE with CLAY, MICRITE and BIOCLASTS occurs. Sections 6, 7 and CC consist of a greenish gray (10Y 5/1), very fine to fine sand-sized, bioturbated and partially to moderately lithified NANNOFOSSIL MIXED SEDIMENT with CALCITE, CLAY, BIOCLASTS and MICRITE.</p> <p>Minor lithology: A CLAYEY NANNOFOSSIL OOZE with QUARTZ and MICRITE occurs in Section 2 between 60 and 80 cm. Partially lithified layers or nodules of a CLAYEY NANNOFOSSIL CHALK are found in Section 3 at 100 cm, Section 4, between 10 and 20 cm and at 40 and 140 cm, Section 5, at 15, 30, 40, 60 and 80, Section 6, at 60 cm and between 130-140 and CC, at 15 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2.68</td> <td>4.68</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>1</td> <td>1</td> </tr> <tr> <td>Bioclast</td> <td>1</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>28</td> <td>15</td> </tr> <tr> <td>Dolomite</td> <td>1</td> <td>---</td> </tr> <tr> <td>Foraminifers</td> <td>2</td> <td>2</td> </tr> <tr> <td>Inorganic calcite</td> <td>7</td> <td>15</td> </tr> <tr> <td>Micrite</td> <td>10</td> <td>13</td> </tr> <tr> <td>Nannofossils</td> <td>35</td> <td>36</td> </tr> <tr> <td>Quartz</td> <td>12</td> <td>6</td> </tr> <tr> <td>Spicules</td> <td>2</td> <td>2</td> </tr> </table>		2.68	4.68	D	D	D	Accessory minerals	1	1	Bioclast	1	10	Clay	28	15	Dolomite	1	---	Foraminifers	2	2	Inorganic calcite	7	15	Micrite	10	13	Nannofossils	35	36	Quartz	12	6	Spicules	2	2
								2.68	4.68																																							
							D	D	D																																							
							Accessory minerals	1	1																																							
							Bioclast	1	10																																							
							Clay	28	15																																							
							Dolomite	1	---																																							
Foraminifers	2	2																																														
Inorganic calcite	7	15																																														
Micrite	10	13																																														
Nannofossils	35	36																																														
Quartz	12	6																																														
Spicules	2	2																																														
							1																																									
							● 44.9%	2																																								
							● 55.0%	3																																								
							● 64.7%	4																																								
							● 76.6%	5																																								
							● 60.9%	6																																								
								7																																								
								CC																																								





SITE 820 HOLE B CORE 20X CORED INTERVAL 174.8-184.1 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										
PLEISTOCENE													
C/M	N22 - N23												
A/M	CN13b												
					UNCERTAIN POLARITY								
						● 41.8%	1	0.5					
						● 37.2%	2	1.0					
						● 44.2%	3						
						● 75.6%	4						
						● 76.1%	5				*		
						● 76.9%	6						
							7						
							CC						

CLAYEY NANNOFOSSIL MIXED SEDIMENT (MUDSTONE) with CALCITE and MICRITE to NANNOFOSSIL CALCAREOUS CHALK with MICRITE, BIOCLASTS and CLAY

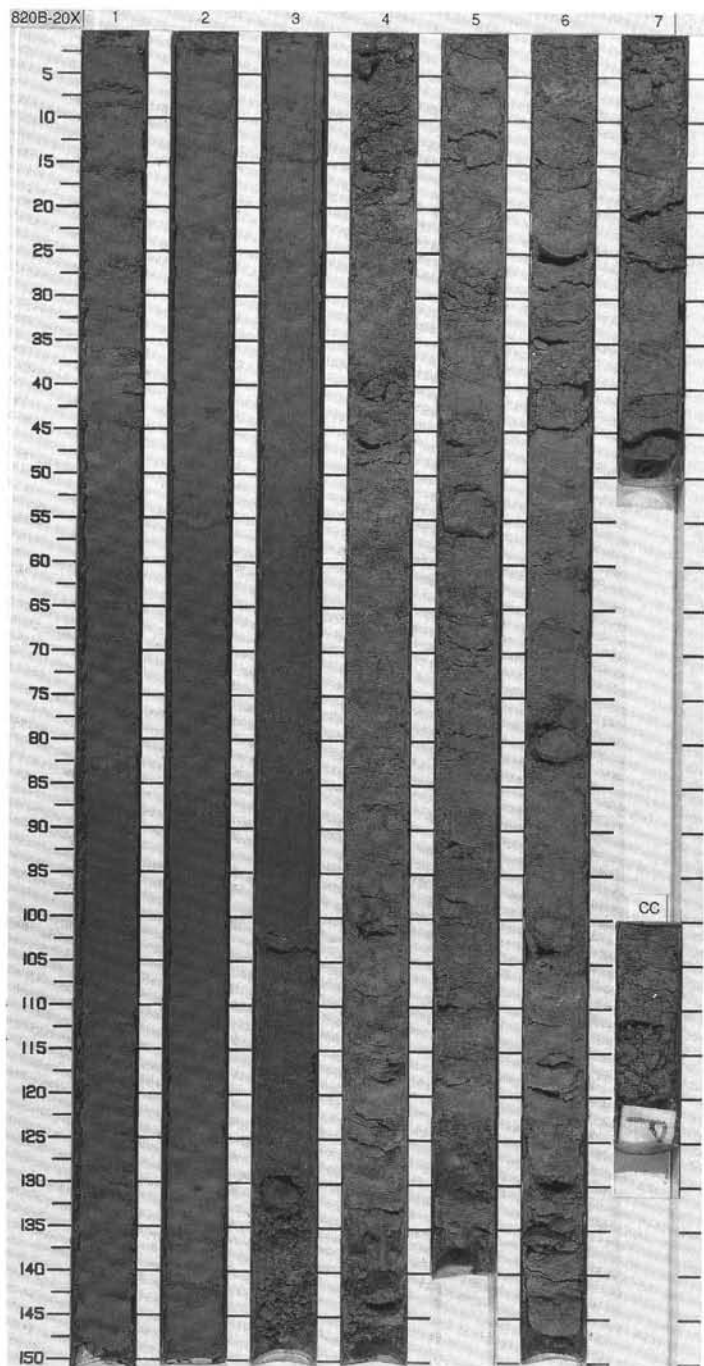
Major lithology: This core contains greenish gray (10Y 5/1), CLAYEY NANNOFOSSIL MIXED SEDIMENT with CALCITE and MICRITE. In Section 3 a gradational color change to greenish gray (10Y 6/1) occurs. The lithology changes to silt-sized to very fine sand-sized NANNOFOSSIL CALCAREOUS CHALK with MICRITE, BIOCLASTS and CLAY. Chalky patches were noted in Section 5.

SMEAR SLIDE SUMMARY (%):

	2, 80	5, 50
D	D	D

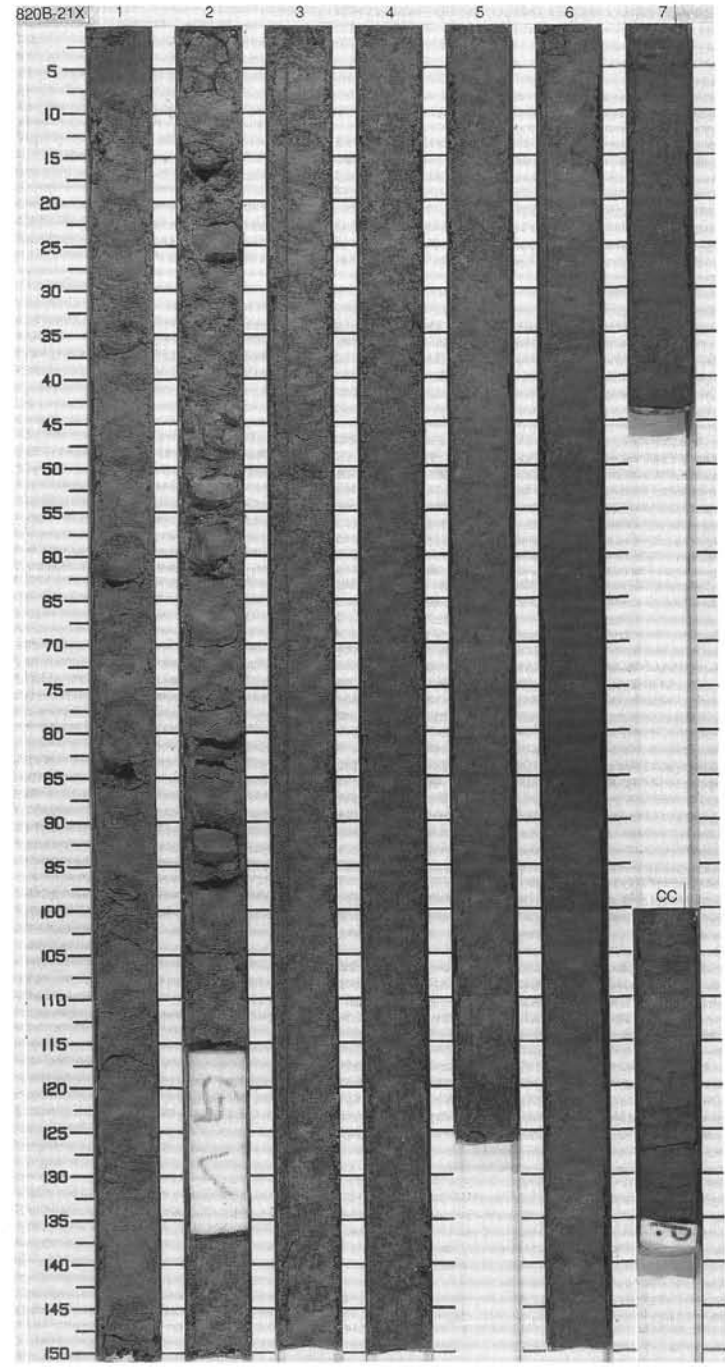
COMPOSITION:

Accessory minerals	3	1
Bioclast	5	14
Clay	25	15
Dolomite	2	10
Feldspar	1	1
Foraminifers	2	3
Inorganic calcite	10	17
Micrite	10	13
Nannofossils	25	17
Plant fragments	1	---
Quartz	13	7
Siliceous sponge spicules	1	1
Tunicate	1	1



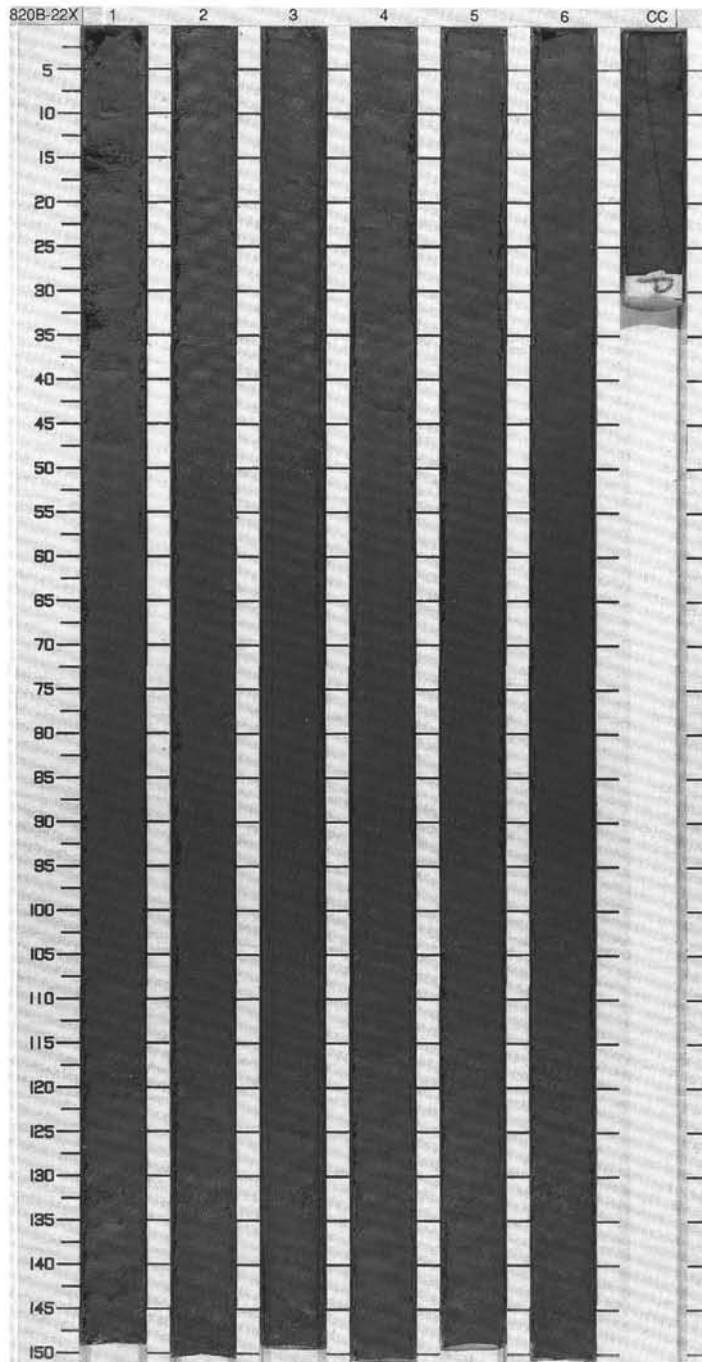
SITE 820 HOLE B CORE 21X CORED INTERVAL 184.1-193.7 mbsf

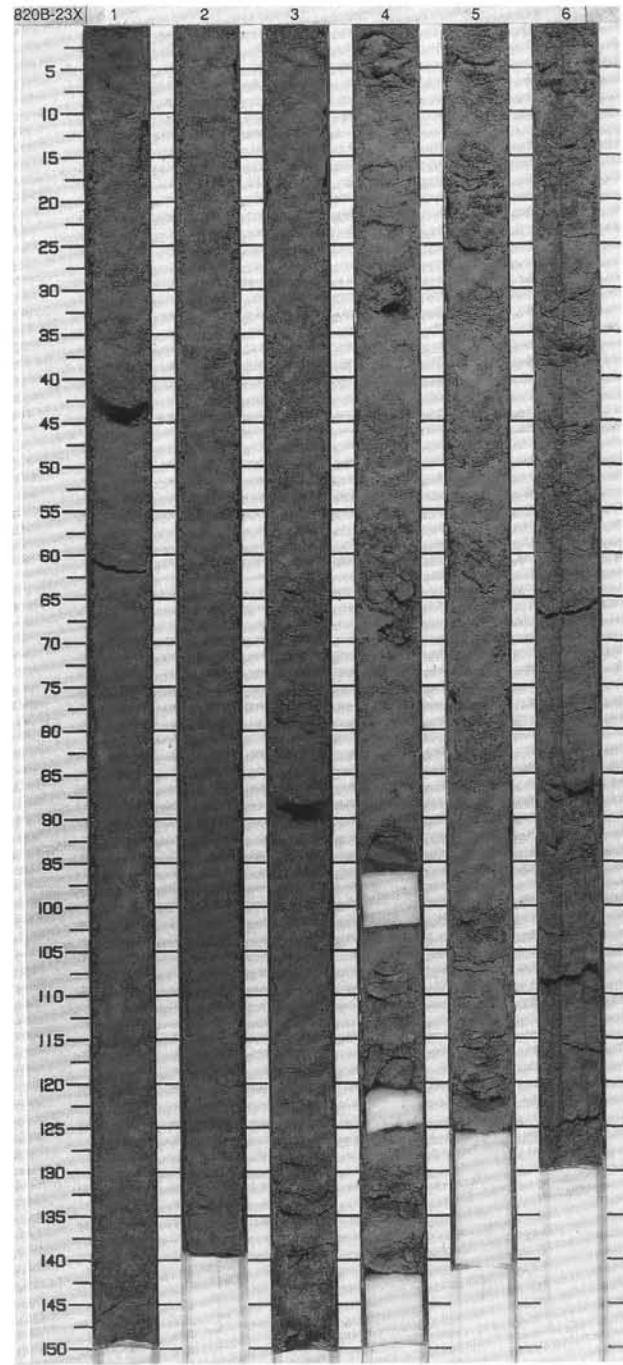
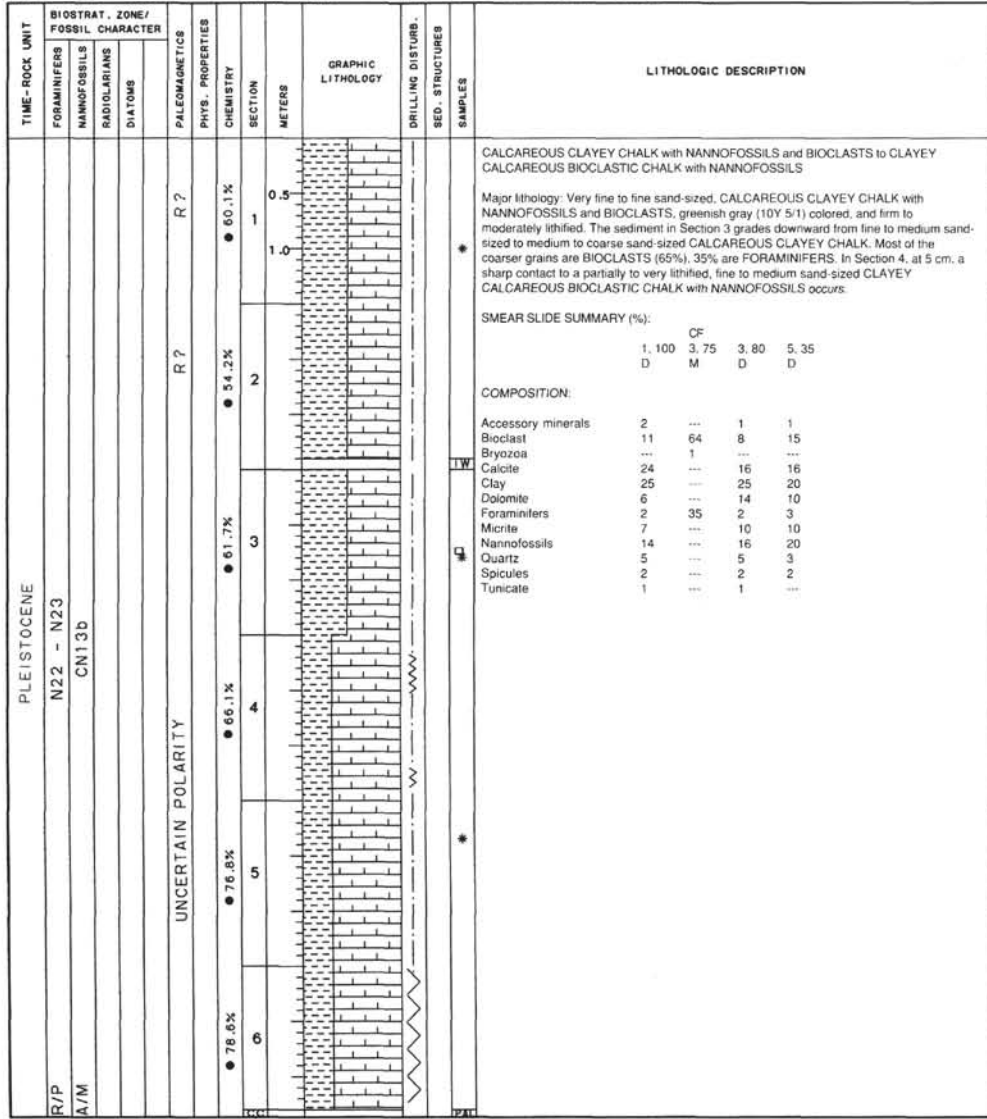
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																												
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS DIATOMS																																																					
PLEISTOCENE	N22 - N23 CN13b			UNCERTAIN POLARITY	N?	● 72.6%	0.5	[Lithology symbols]	---	---	---	CLAYEY NANNOFOSSIL OOZE to NANNOFOSSIL CLAYEY SILTY MIXED SEDIMENT with MICRITE and CALCITE Major lithology. This core contains CLAYEY NANNOFOSSIL OOZE with MICRITE and CALCITE and NANNOFOSSIL CLAYEY SILTY MIXED SEDIMENT with MICRITE and CALCITE, greenish gray (10Y 5/1) in color. Lithified patches occur in Section 1 and in Section 2 at 23, 50, 58, and 90-97 cm. In the bottom of Section 5 the sediment turns darker greenish gray (10Y 4/1). A fine sand-sized lining-upward bed occurs in Section 6, 85-90 cm. SMEAR SLIDE SUMMARY (%): <table style="margin-left: 20px; border: none;"> <tr><td>1,</td><td>80</td><td>6,</td><td>80</td></tr> <tr><td>D,</td><td></td><td>D</td><td></td></tr> </table> COMPOSITION: <table style="margin-left: 20px; border: none;"> <tr><td>Accessory minerals</td><td>1</td><td>1</td></tr> <tr><td>Bioclast</td><td>16</td><td>3</td></tr> <tr><td>Clay</td><td>15</td><td>31</td></tr> <tr><td>Dolomite</td><td>10</td><td>1</td></tr> <tr><td>Feldspar</td><td>1</td><td>---</td></tr> <tr><td>Foraminifers</td><td>2</td><td>1</td></tr> <tr><td>Inorganic calcite</td><td>20</td><td>8</td></tr> <tr><td>Micrite</td><td>15</td><td>17</td></tr> <tr><td>Nannofossils</td><td>13</td><td>30</td></tr> <tr><td>Quartz</td><td>5</td><td>6</td></tr> <tr><td>Siliceous sponge spicules</td><td>1</td><td>1</td></tr> <tr><td>Tunicate</td><td>1</td><td>1</td></tr> </table>	1,	80	6,	80	D,		D		Accessory minerals	1	1	Bioclast	16	3	Clay	15	31	Dolomite	10	1	Feldspar	1	---	Foraminifers	2	1	Inorganic calcite	20	8	Micrite	15	17	Nannofossils	13	30	Quartz	5	6	Siliceous sponge spicules	1	1	Tunicate	1	1
	1,	80	6,				80																																																	
	D,		D																																																					
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	Bioclast	16	3																																																					
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	Dolomite	10	1																																																					
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Siliceous sponge spicules	1	1																																																						
Tunicate	1	1																																																						
						1																																																		
						2		VOID																																																
						3																																																		
						4																																																		
						5																																																		
						6			OG																																															
						7																																																		
C/G				N		CC																																																		

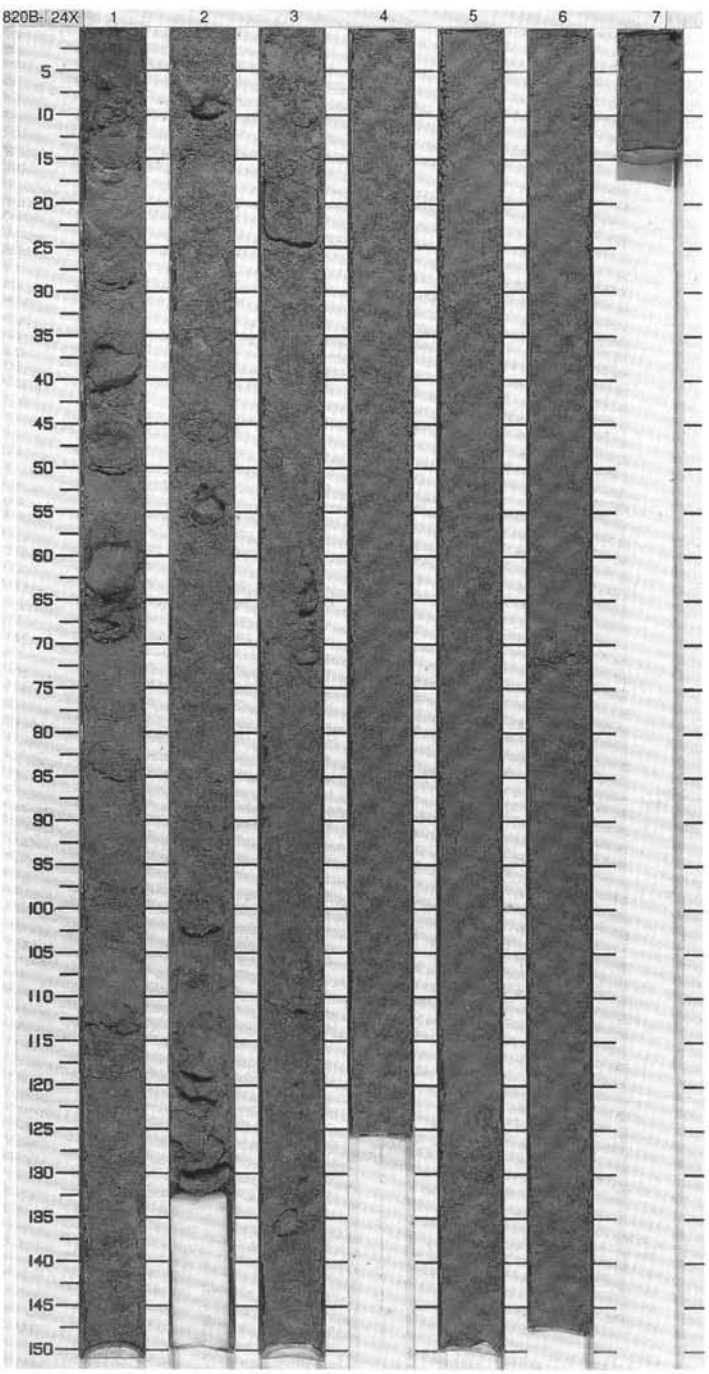
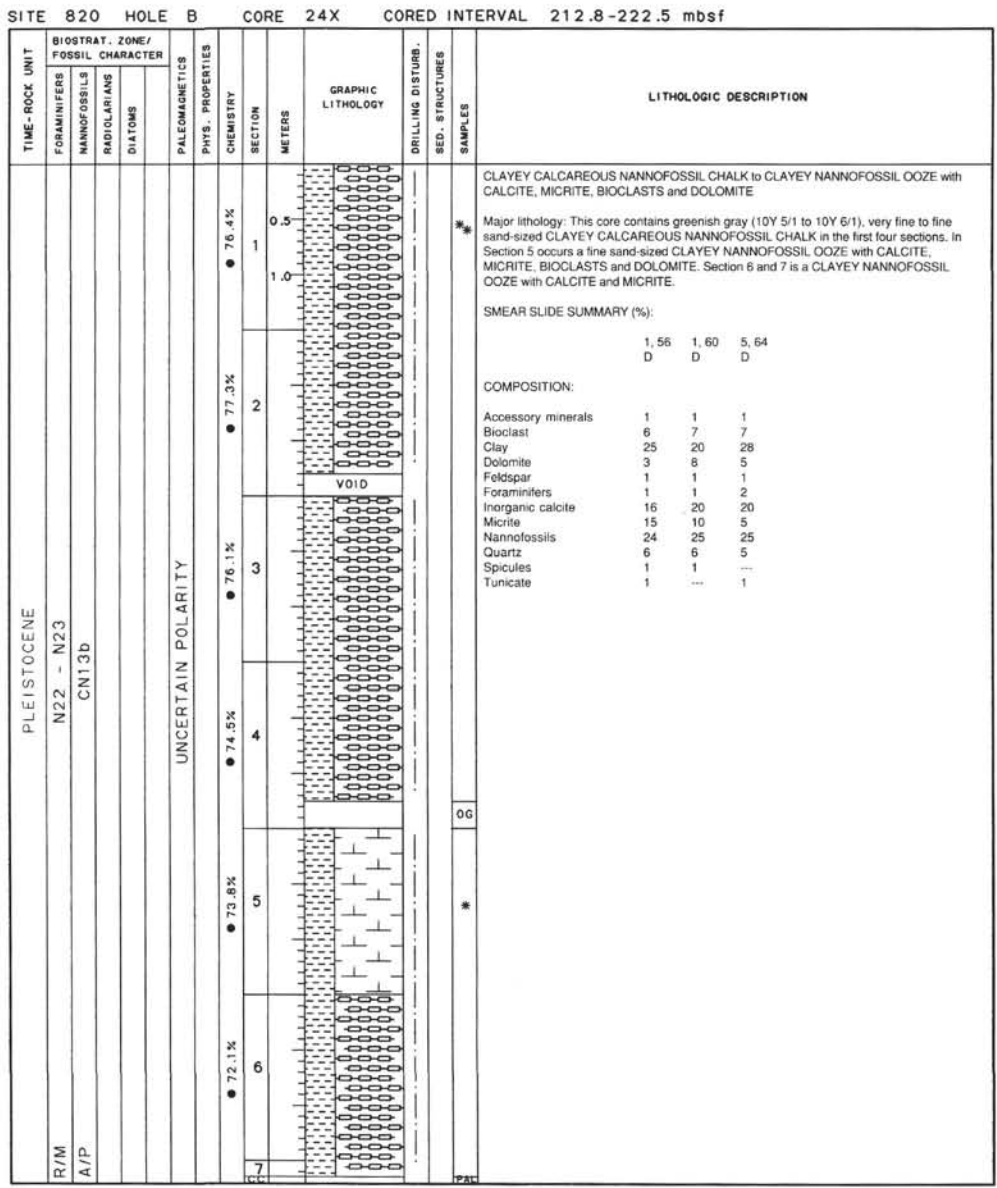


SITE 820 HOLE B CORE 22X CORED INTERVAL 193.7-203.4 mbsf

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																																																										
PLEISTOCENE																																																													
C/G	NN22 - N23			N ?		● 33.5%	1	0.5					CLAYSTONE with MICRITE, QUARTZ and NANNOFOSSILS Major lithology: This core contains CLAYSTONE with MICRITE, QUARTZ and NANNOFOSSILS, very dark green (10Y 3/1) colored. BIOCLASTS as a minor component occur in Section 6. SMEAR SLIDE SUMMARY (%): <table style="margin-left: 40px;"> <tr> <td></td> <td>1, 70</td> <td>5, 70</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> </tr> </table> COMPOSITION: <table style="margin-left: 40px;"> <tr> <td>Accessory minerals</td> <td>2</td> <td>2</td> </tr> <tr> <td>Bioclast</td> <td>6</td> <td>15</td> </tr> <tr> <td>Calcite</td> <td>6</td> <td>---</td> </tr> <tr> <td>Clay</td> <td>35</td> <td>32</td> </tr> <tr> <td>Diatoms</td> <td>1</td> <td>---</td> </tr> <tr> <td>Feldspar</td> <td>1</td> <td>1</td> </tr> <tr> <td>Foraminifers</td> <td>5</td> <td>3</td> </tr> <tr> <td>Inorganic calcite</td> <td>---</td> <td>5</td> </tr> <tr> <td>Micrite</td> <td>18</td> <td>10</td> </tr> <tr> <td>Nannofossils</td> <td>13</td> <td>10</td> </tr> <tr> <td>Quartz</td> <td>15</td> <td>18</td> </tr> <tr> <td>Siliceous sponge spicules</td> <td>---</td> <td>2</td> </tr> <tr> <td>Spicules</td> <td>3</td> <td>---</td> </tr> <tr> <td>Tunicate</td> <td>1</td> <td>2</td> </tr> </table>		1, 70	5, 70		D	D	Accessory minerals	2	2	Bioclast	6	15	Calcite	6	---	Clay	35	32	Diatoms	1	---	Feldspar	1	1	Foraminifers	5	3	Inorganic calcite	---	5	Micrite	18	10	Nannofossils	13	10	Quartz	15	18	Siliceous sponge spicules	---	2	Spicules	3	---	Tunicate	1	2
	1, 70	5, 70																																																											
	D	D																																																											
Accessory minerals	2	2																																																											
Bioclast	6	15																																																											
Calcite	6	---																																																											
Clay	35	32																																																											
Diatoms	1	---																																																											
Feldspar	1	1																																																											
Foraminifers	5	3																																																											
Inorganic calcite	---	5																																																											
Micrite	18	10																																																											
Nannofossils	13	10																																																											
Quartz	15	18																																																											
Siliceous sponge spicules	---	2																																																											
Spicules	3	---																																																											
Tunicate	1	2																																																											
A/G	CN13b					● 30.7%	2	1.0																																																					
				UNCERTAIN POLARITY		● 28.3%	3																																																						
						● 29.2%	4																																																						
						● 25.3%	5																																																						
				N		● 29.7%	6																																																						
							CC																																																						





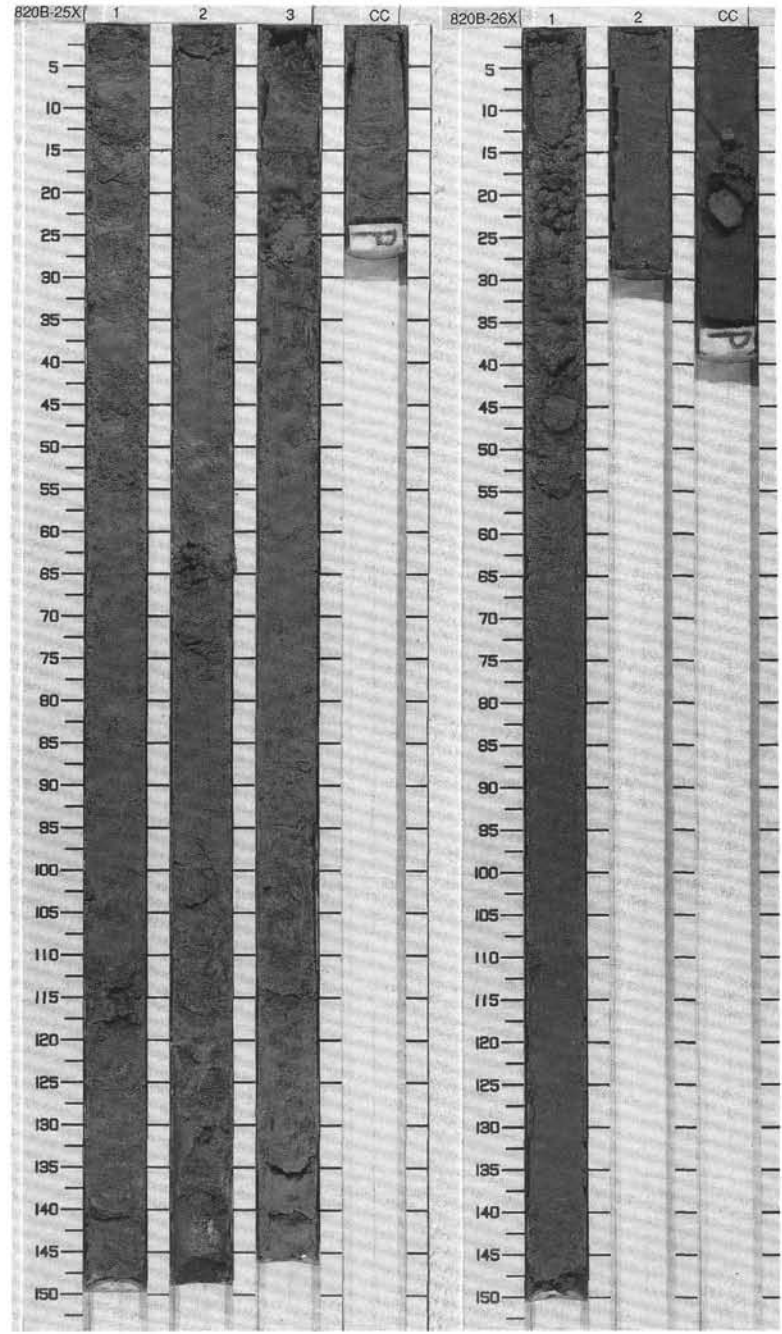


SITE 820 HOLE B CORE 25X CORED INTERVAL 222.5-232.1 mbsf

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										
PLEISTOCENE	N22 - N23	CN13b												CLAYEY NANNOFOSSIL CALCAREOUS CHALK with MICRITE Major lithology: This core contains a greenish gray (10Y 5/1), CLAYEY NANNOFOSSIL CALCAREOUS CHALK with MICRITE. The grain size is silt to very fine sand-sized. * SMEAR SLIDE SUMMARY (%) 1, 83 D COMPOSITION: Accessory minerals 1 Bioclast 6 Clay 26 Dolomite 5 Foraminifers 2 Inorganic calcite 18 Micrite 11 Nannofossils 26 Quartz 3 Spicules 1 Tunicate 1
R/P						● 77.1%		1	0.5					
C/P						● 72.0%		2	1.0					
						● 72.8%		3						
								CC						

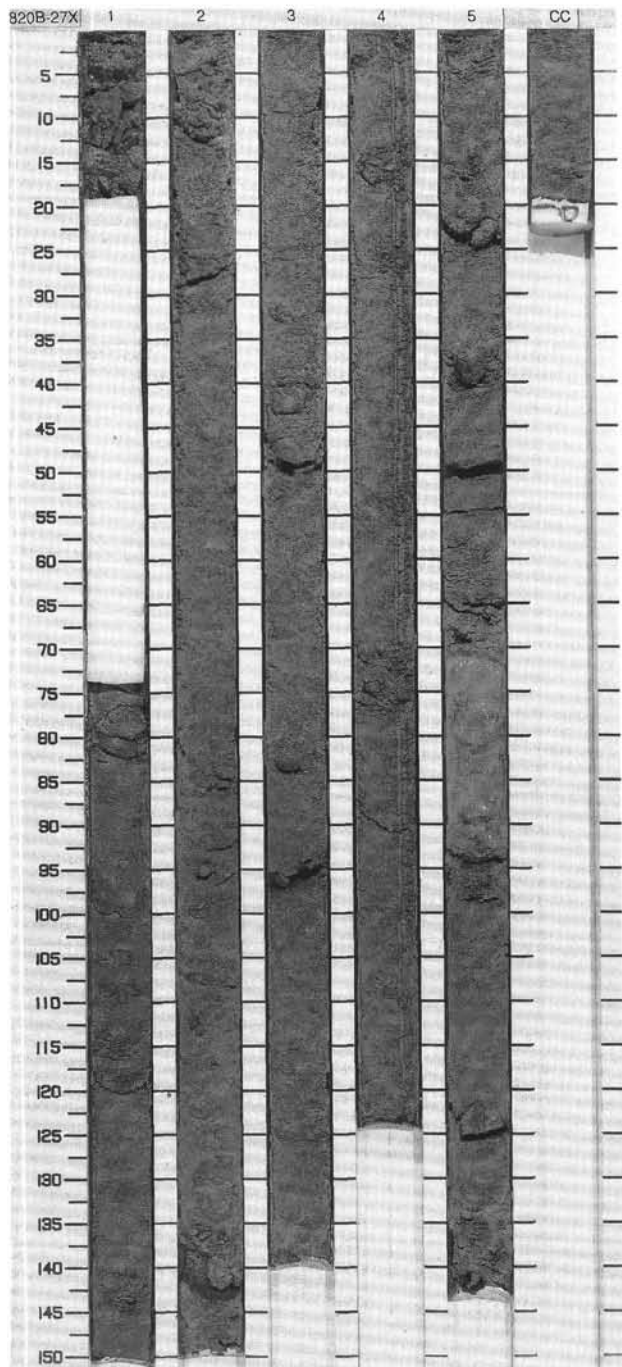
SITE 820 HOLE B CORE 26X CORED INTERVAL 232.1-241.8 mbsf

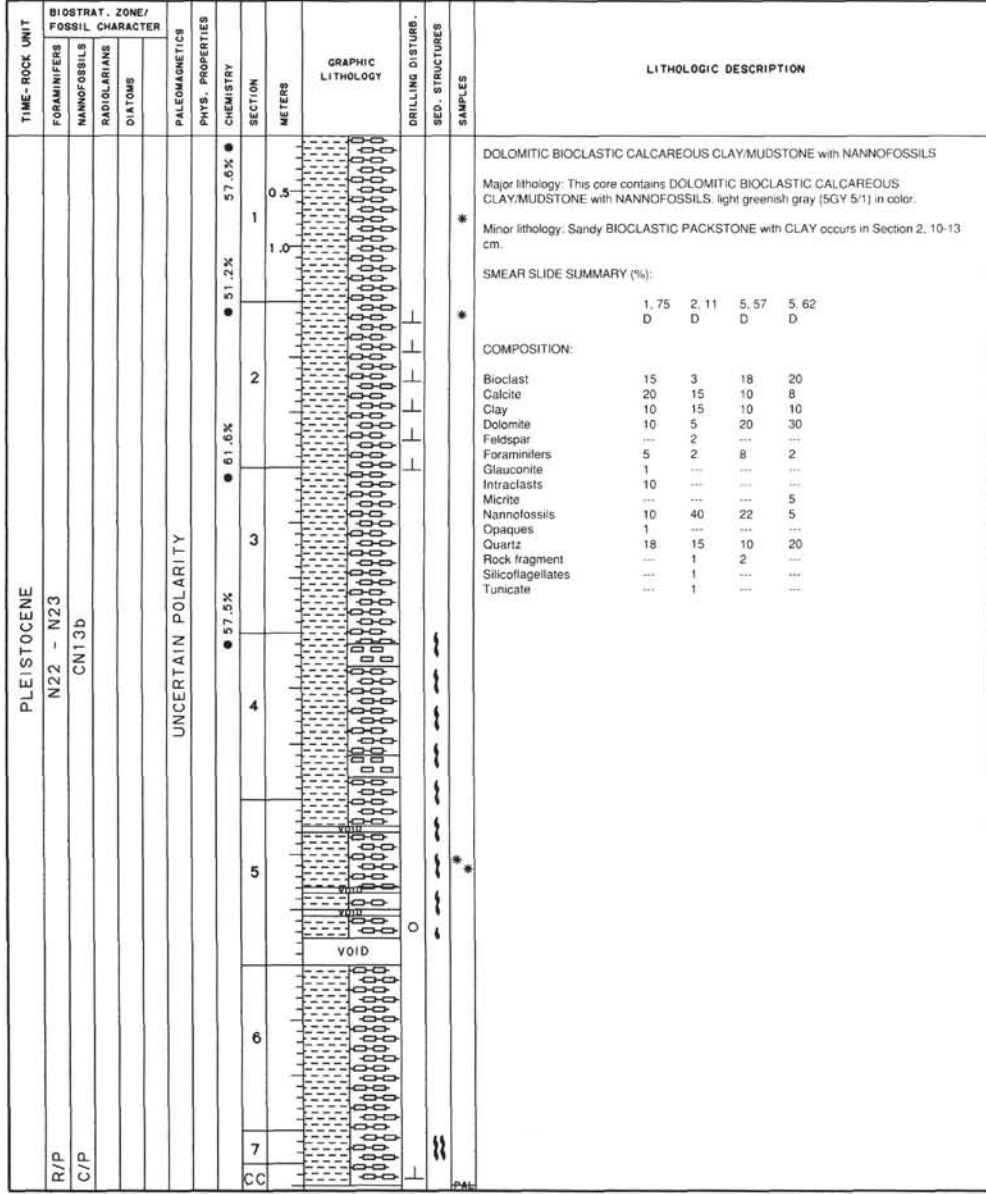
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
PLEISTOCENE	N22 - N23	CN13b												CLAYEY NANNOFOSSIL MIXED SEDIMENT with CALCITE and MICRITE Major lithology: This core contains partially lithified, greenish gray (10YR 5/1), CLAYEY NANNOFOSSIL MIXED SEDIMENT with CALCITE and MICRITE. The grain size is homogenous and very fine sand-sized. Chalky lumps are scattered throughout Section 1. DOLOMITE as a minor modifier was noted in the core catcher. Calcareous constituents are NANNOFOSSILS, CALCITE CRYSTALS, and to a lesser extent, BIOCLASTS.
R/P						● 53.2%		1	0.5					
F/P								2	1.0					
								CC						



SITE 820 HOLE B CORE 27X CORED INTERVAL 241.8-251.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
PLEISTOCENE		N22 - N23	CN13b												NANNOFOSSIL CHALK with MICRITE and CLAY
															Major lithology: This core contains greenish gray (10YR 5/1), homogenous NANNOFOSSIL CHALK with MICRITE and CLAY. The grain size is fine sand- to silt-sized. In Section 4 subordinate components of the lithology are BIOCLASTS, DOLOMITE and QUARTZ.
R/P								72.0%	1	0.5	VOID				
C/P								82.1%	2	1.0					
								69.6%	3						
								70.8%	4		VOID				
									5						
CC															





DOLOMITIC BIOCLASTIC CALCAREOUS CLAY/MUDSTONE with NANNOFOSSILS

Major lithology: This core contains DOLOMITIC BIOCLASTIC CALCAREOUS CLAY/MUDSTONE with NANNOFOSSILS, light greenish gray (5GY 5/1) in color.

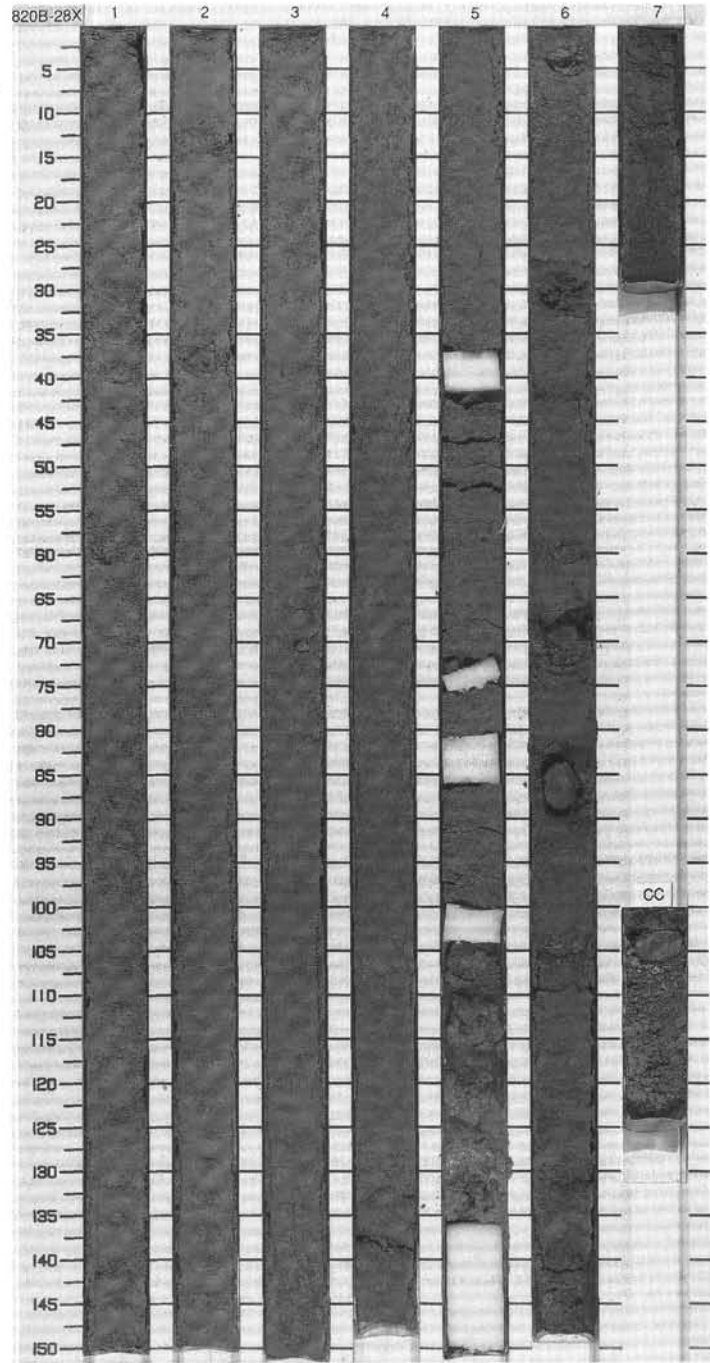
Minor lithology: Sandy BIOCLASTIC PACKSTONE with CLAY occurs in Section 2, 10-13 cm.

SMEAR SLIDE SUMMARY (%):

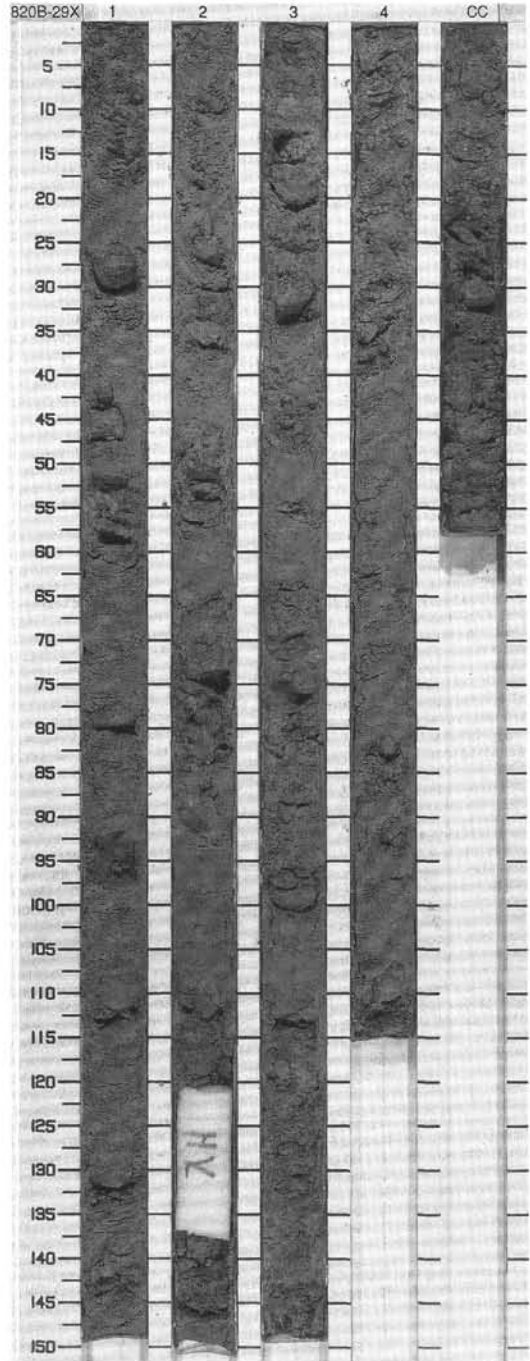
	1.75	2.11	5.57	5.62
D	D	D	D	D

COMPOSITION:

Bioclast	15	3	18	20
Calcite	20	15	10	8
Clay	10	15	10	10
Dolomite	10	5	20	30
Feldspar	...	2
Foraminifers	5	2	8	2
Glauconite	1
Intraclasts	10
Micrite	5
Nannofossils	10	40	22	5
Opaques	1
Quartz	18	15	10	20
Rock fragment	...	1	2	...
Silicoflagellates	...	1
Tunicate	...	1



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																																											
PLEISTOCENE		N22 - N23 C/P		?			1	0.5 1.0					CALCAREOUS CHALK with DOLOMITE to SILTY CALCAREOUS CHALK with DOLOMITE, BIOCLASTS, NANNOFOSSILS and QUARTZ Major lithology: This core contains gray (5Y 6/1), CALCAREOUS CHALK with DOLOMITE in Sections 1 and 4 to SILTY CALCAREOUS CHALK with DOLOMITE, BIOCLASTS, NANNOFOSSILS and QUARTZ in Sections 2 and 3. SMEAR SLIDE SUMMARY (%): <table style="margin-left: 20px;"> <tr> <td></td> <td>2.50</td> <td>CC, 40</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> COMPOSITION: <table style="margin-left: 20px;"> <tr> <td>* Bioclast</td> <td>15</td> <td>10</td> </tr> <tr> <td>Calcite</td> <td>35</td> <td>15</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>10</td> </tr> <tr> <td>Dolomite</td> <td>13</td> <td>20</td> </tr> <tr> <td>Feldspar</td> <td>—</td> <td>5</td> </tr> <tr> <td>Foraminifers</td> <td>5</td> <td>5</td> </tr> <tr> <td>Nannofossils</td> <td>15</td> <td>25</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>10</td> </tr> <tr> <td>Rock fragment</td> <td>2</td> <td>—</td> </tr> </table>		2.50	CC, 40	D	D	D	* Bioclast	15	10	Calcite	35	15	Clay	10	10	Dolomite	13	20	Feldspar	—	5	Foraminifers	5	5	Nannofossils	15	25	Quartz	5	10	Rock fragment	2	—
	2.50	CC, 40																																												
D	D	D																																												
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Quartz	5	10																																												
Rock fragment	2	—																																												
				?			2																																							
				R?			3																																							
				R?			4																																							
R/P	C/P						CC																																							

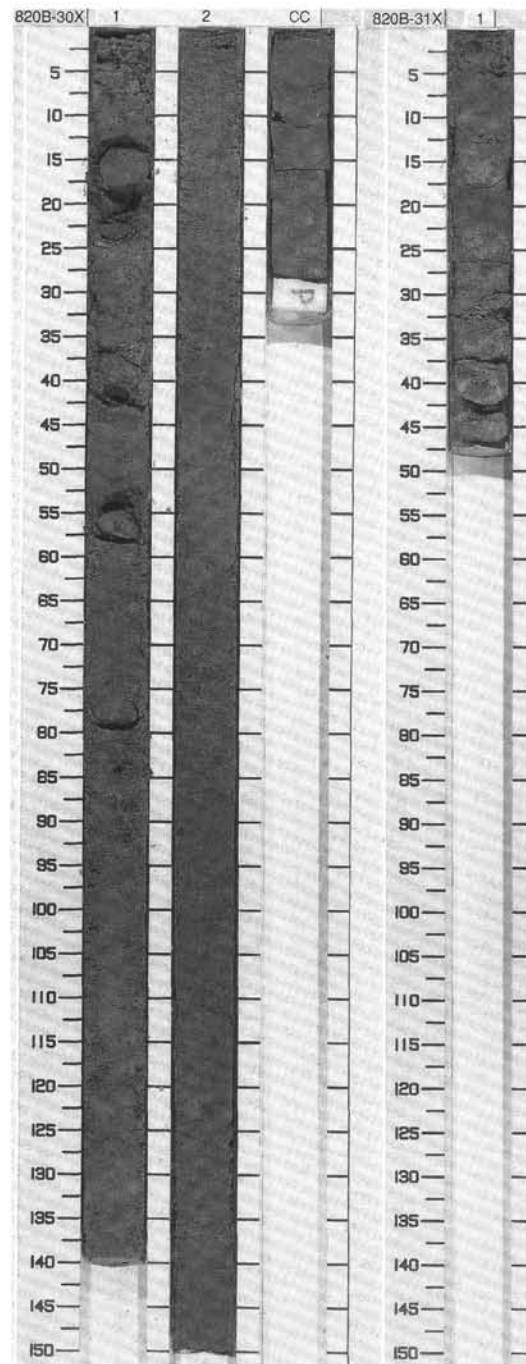


SITE 820 HOLE B CORE 30X CORED INTERVAL 270.4 -280.1 mbsf

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	DIAZONES								
PLEISTOCENE	R/P	N22 - N23			UNCERTAIN POLARITY	● 66.8% ● 61.1%	1		* TW	* PAL	DOLOMITIC BIOCLASTIC PACKSTONE to SANDY BIOCLASTIC CALCAREOUS MUD with NANNOFOSSILS Major lithology: This core contains gray to light gray (10Y 5/1), partially lithified, DOLOMITIC BIOCLASTIC PACKSTONE biscuits in Section 1, 0-80 cm. Section 2 contains SANDY BIOCLASTIC CALCAREOUS MUD between 0-137 cm, with NANNOFOSSILS between 137 and 150 cm and in the core catcher. The color is dark green (5GY 4/1). Burrows are filled with BIOCLASTIC and DOLOMITIC PACKSTONE. SMEAR SLIDE SUMMARY (%): 1.66 2.139 D D COMPOSITION: Bioclast 10 10 Calcite 20 30 Clay 15 10 Dolomite 20 20 Feldspar 2 --- Foraminifers 3 5 Nannofossils 15 18 Quartz 8 5 Rock fragment 1 2 Spicules 2 --- Tunicate 5 ---	
	F/P	CN13b					2					
							CC					

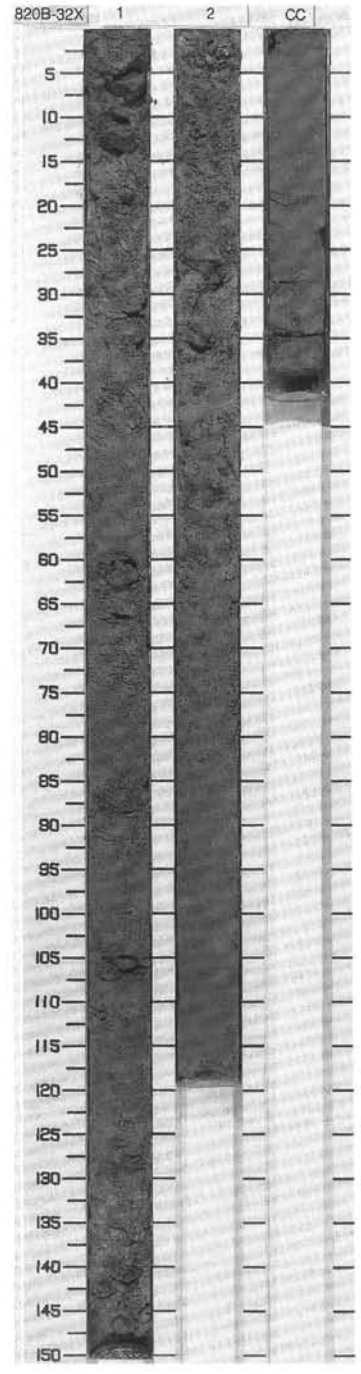
SITE 820 HOLE B CORE 31X CORED INTERVAL 280.1 -289.7 mbsf

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	DIAZONES								
PLEISTOCENE	R/P	N22 - N23			UNCERTAIN POLARITY	● 66.8% ● 61.1%	1		* TW	* PAL	BIOCLASTIC NANNOFOSSIL CALCAREOUS MUD with DOLOMITE to DOLOMITIC CALCAREOUS CHALK with BIOCLASTS Major lithology: This core contains BIOCLASTIC NANNOFOSSIL CALCAREOUS MUD with DOLOMITE in Section 1, 5-11 cm, and DOLOMITIC CALCAREOUS CHALK with BIOCLASTS from 11 to 18 cm. SMEAR SLIDE SUMMARY (%): 1.31 D COMPOSITION: Bioclast 20 Calcite 35 Clay 10 Dolomite 15 Foraminifers 2 Lithoclast 3 Nannofossils 10 Quartz 5	
	A/M	CN13b										

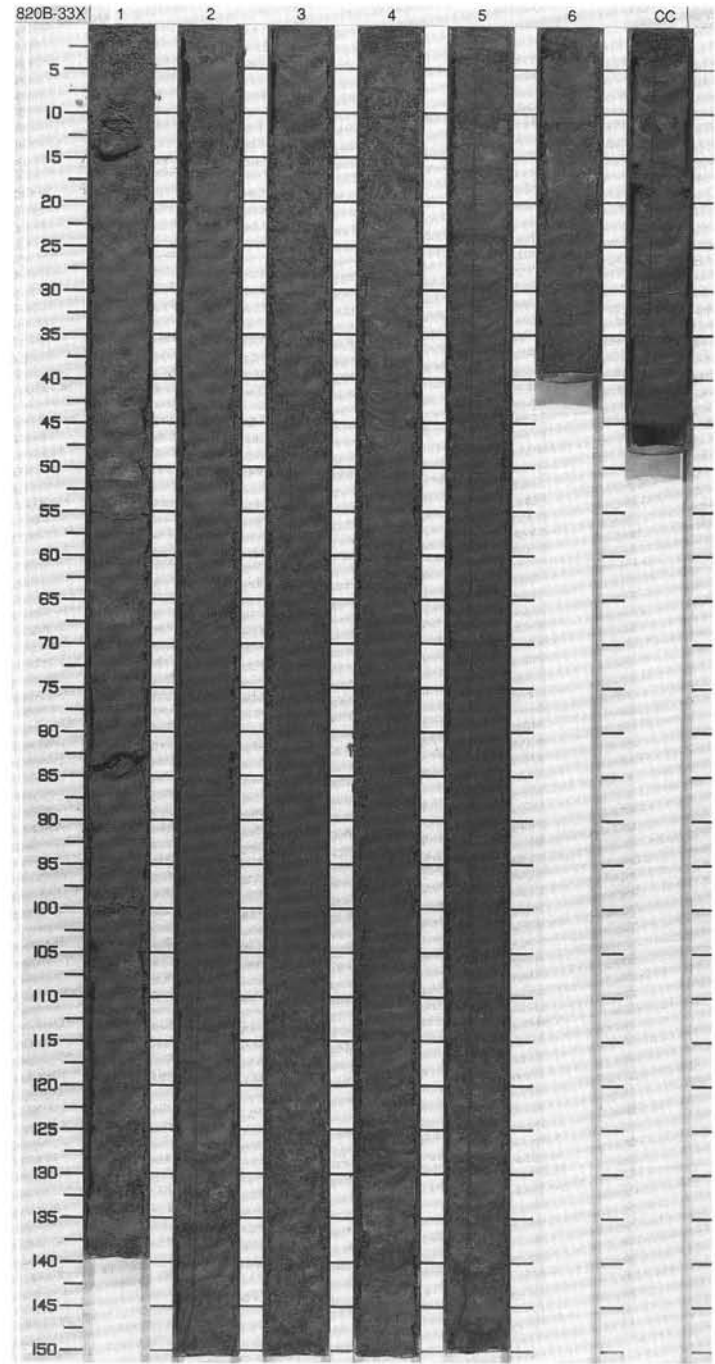


SITE 820 HOLE B CORE 32X CORED INTERVAL 289.7-299.4 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																							
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																	
PLEISTOCENE	N22 - N23							1	0.5					<p>DOLOMITIC BIOCLASTIC CALCAREOUS PACKSTONE with NANNOFOSSILS and QUARTZ to CALCAREOUS MUD with NANNOFOSSILS, DOLOMITE and BIOCLASTS</p> <p>Major lithology: This core contains partially lithified, greenish gray (5GY 5/1), DOLOMITIC BIOCLASTIC CALCAREOUS PACKSTONE with NANNOFOSSILS and QUARTZ in Section 1 and in Section 2, 0.67 cm. Dark greenish gray (5GY 5/1 to 4/1) CALCAREOUS MUD with NANNOFOSSILS, DOLOMITE and BIOCLASTS occurs in Section 2, 105-120 cm and in the core catcher.</p> <p>* SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>1.69</td> <td>CC. 12</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Bioclast</td> <td>15</td> <td>10</td> </tr> <tr> <td>Calcite</td> <td>25</td> <td>25</td> </tr> <tr> <td>Clay</td> <td>15</td> <td>20</td> </tr> <tr> <td>Dolomite</td> <td>11</td> <td>15</td> </tr> <tr> <td>Feldspar</td> <td>2</td> <td>4</td> </tr> <tr> <td>Foraminifers</td> <td>5</td> <td>3</td> </tr> <tr> <td>Glauconite</td> <td>Tr</td> <td>---</td> </tr> <tr> <td>Nannofossils</td> <td>12</td> <td>12</td> </tr> <tr> <td>Opauques</td> <td>2</td> <td>3</td> </tr> <tr> <td>Quartz</td> <td>10</td> <td>6</td> </tr> <tr> <td>Spicules</td> <td>3</td> <td>2</td> </tr> </table>		1.69	CC. 12		D	D	Bioclast	15	10	Calcite	25	25	Clay	15	20	Dolomite	11	15	Feldspar	2	4	Foraminifers	5	3	Glauconite	Tr	---	Nannofossils	12	12	Opauques	2	3	Quartz	10	6	Spicules	3	2
	1.69	CC. 12																																																			
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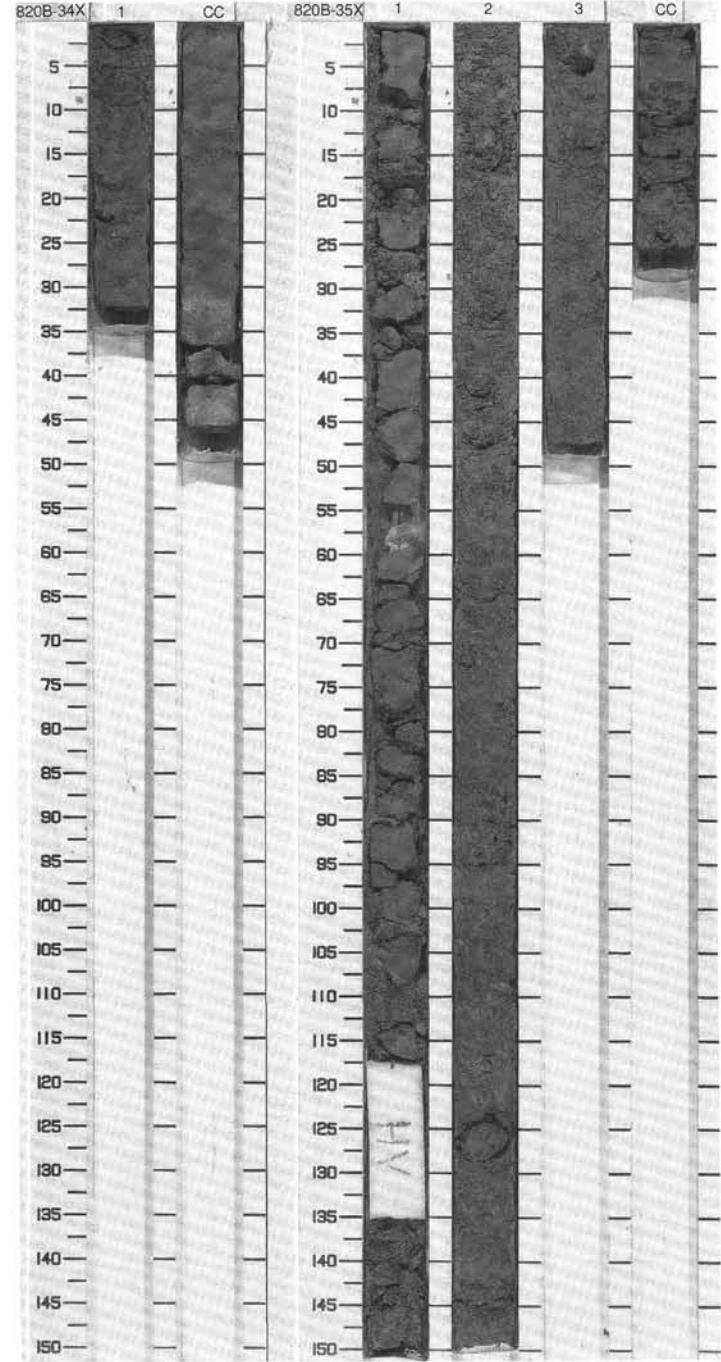


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																												
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																																				
PLEISTOCENE																																																																								
R/P	N22 - N23				N?	● 4.2.0%	1	0.5 1.0				<p>* BIOCLASTIC CALCAREOUS MIXED SEDIMENT with NANNOFOSSILS and QUARTZ to CLAYEY SILTSTONE with BIOCLASTS and NANNOFOSSILS</p> <p>* Major lithology: This core contains sandy BIOCLASTIC CALCAREOUS MIXED SEDIMENT with NANNOFOSSILS and QUARTZ in Sections 1, 2 and in Section 3. 0.95 cm. The color is dark greenish gray (5GY 4/1) with regularly spaced intercalations of lighter colored greenish gray (5GY 5/1) chalky layers in Section 1. CLAYEY SILTSTONE with BIOCLASTS and NANNOFOSSILS. dark greenish gray (5GY 4/1) occurs in the remaining sections.</p> <p>Minor lithology: Burrows are filled with sandy BIOCLASTIC PACKSTONE, which also occurs in the core catcher.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>1, 10 D</th> <th>1, 60 D</th> <th>CC, 14 D</th> </tr> </thead> <tbody> <tr> <td>COMPOSITION:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Bioclast</td> <td>10</td> <td>20</td> <td>10</td> </tr> <tr> <td>Calcite</td> <td>40</td> <td>10</td> <td>20</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>10</td> <td>20</td> </tr> <tr> <td>Dolomite</td> <td>5</td> <td>3</td> <td>2</td> </tr> <tr> <td>Feldspar</td> <td>---</td> <td>2</td> <td>---</td> </tr> <tr> <td>Foraminifers</td> <td>2</td> <td>2</td> <td>10</td> </tr> <tr> <td>Lithoclast</td> <td>10</td> <td>10</td> <td>10</td> </tr> <tr> <td>Mica</td> <td>---</td> <td>3</td> <td>---</td> </tr> <tr> <td>Nannofossils</td> <td>10</td> <td>15</td> <td>8</td> </tr> <tr> <td>Quartz</td> <td>10</td> <td>20</td> <td>15</td> </tr> <tr> <td>Rock fragment</td> <td>2</td> <td>5</td> <td>---</td> </tr> <tr> <td>Spicules</td> <td>---</td> <td>---</td> <td>2</td> </tr> <tr> <td>Tunicate</td> <td>1</td> <td>---</td> <td>3</td> </tr> </tbody> </table>		1, 10 D	1, 60 D	CC, 14 D	COMPOSITION:				Bioclast	10	20	10	Calcite	40	10	20	Clay	10	10	20	Dolomite	5	3	2	Feldspar	---	2	---	Foraminifers	2	2	10	Lithoclast	10	10	10	Mica	---	3	---	Nannofossils	10	15	8	Quartz	10	20	15	Rock fragment	2	5	---	Spicules	---	---	2	Tunicate	1	---	3
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Spicules	---	---	2																																																																					
Tunicate	1	---	3																																																																					
A/G	CN13b				R?	● 34.7%	2																																																																	
					R?	● 41.7%	3																																																																	
					R?	● 39.4%	4																																																																	
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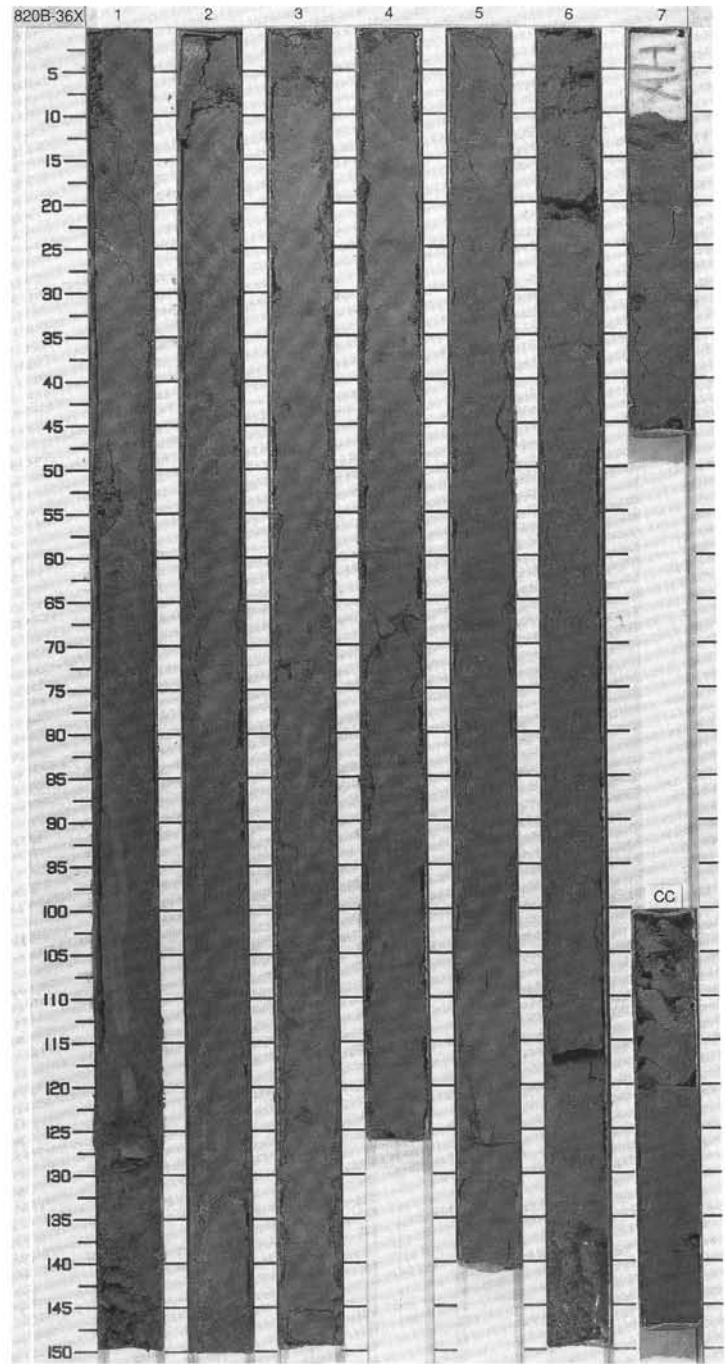


SITE 820 HOLE B CORE 34X CORED INTERVAL 309.1-318.8 mbsf																																		
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER																																	
	FORAMINIFERS NANNOFOSSILS RADIOLARIANS DIATOMS																																	
PLEISTOCENE	N22 - N23 CN13b																																	
	R/P A/M																																	
PALEOMAGNETICS																																		
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DRILLING DISTURB.																																		
SED. STRUCTURES																																		
SAMPLES																																		
LITHOLOGIC DESCRIPTION																																		
CALCAREOUS SILTY MUD with BIOCLASTS, QUARTZ and NANNOFOSSILS																																		
<p>Major lithology: This core contains CALCAREOUS SILTY MUD with BIOCLASTS, QUARTZ and NANNOFOSSILS, dark gray (5GY 4/1) colored. The burrows contain coarse silt to fine sandy mud. Preferential lithification occurs where the sediment is coarser grained. A thin intercalated FORAMINIFER BIOCLAST PACKSTONE occurs in the core catcher, 35-41 cm.</p>																																		
SMEAR SLIDE SUMMARY (%):																																		
<table border="0"> <tr> <td>CC, 4</td> <td>CC, 6</td> </tr> <tr> <td>D</td> <td>D</td> </tr> </table>		CC, 4	CC, 6	D	D																													
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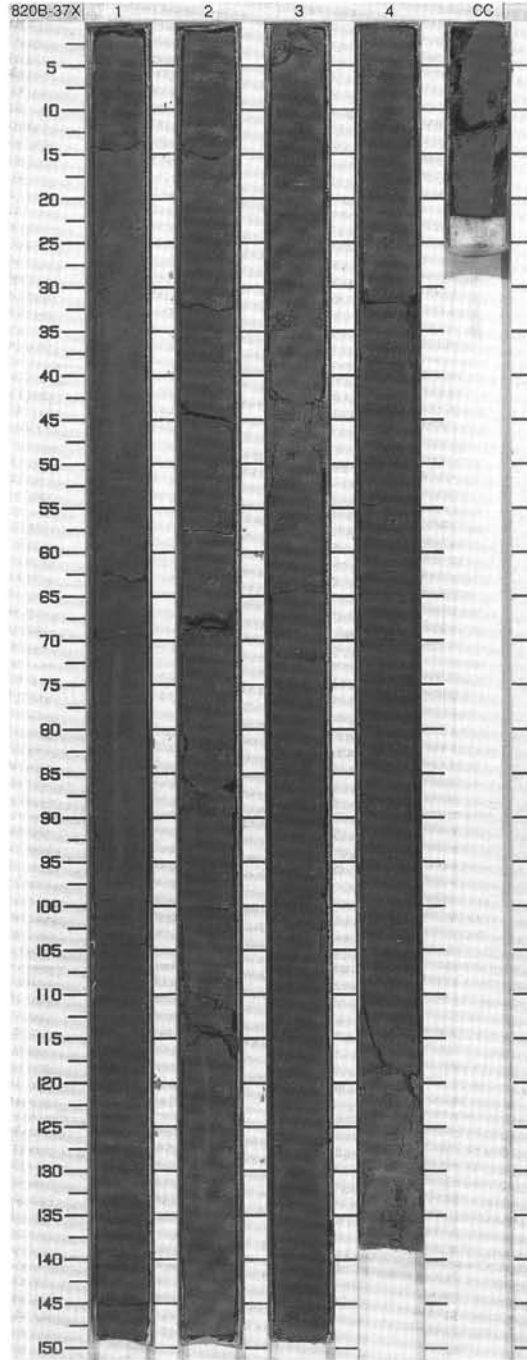
SITE 820 HOLE B CORE 35X CORED INTERVAL 318.8-328.5 mbsf																															
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER																														
	FORAMINIFERS NANNOFOSSILS RADIOLARIANS DIATOMS																														
PLEISTOCENE	N22 - N23 CN13b																														
	R/P A/M																														
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SED. STRUCTURES																															
SAMPLES																															
LITHOLOGIC DESCRIPTION																															
BIOCLASTIC PACKSTONE with QUARTZ and NANNOFOSSILS to CALCAREOUS MUDSTONE																															
<p>Major lithology: Gray (5Y 5/1) BIOCLASTIC PACKSTONE with QUARTZ and NANNOFOSSILS occurs in Sections 1 and 2. In Section 2 and the core catcher, gray (5Y 5/1), partially lithified, sandy, CALCAREOUS MUDSTONE is intercalated with the packstone.</p>																															
SMEAR SLIDE SUMMARY (%):																															
<table border="0"> <tr> <td>1.51</td> <td>2.60</td> </tr> <tr> <td>D</td> <td>D</td> </tr> </table>		1.51	2.60	D	D																										
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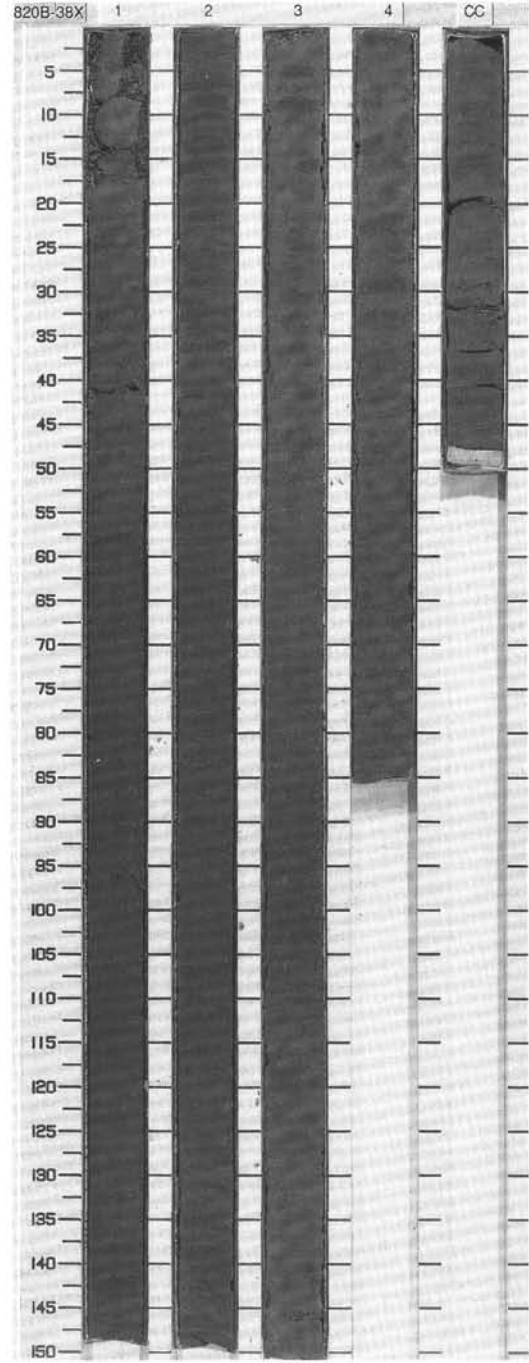
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
PLEISTOCENE				UNCERTAIN POLARITY									
A/G	N22 - N23					69.12%	1	0.5					<p>CALCAREOUS PACKSTONE with BIOCLASTS, DOLOMITE, QUARTZ and NANNOFOSSILS</p> <p>Major lithology: This core contains weakly lithified, greenish gray (5GY 5/1), CALCAREOUS PACKSTONE with BIOCLASTS, DOLOMITE, QUARTZ and NANNOFOSSILS. In Section 6 below 70 cm, isolated fragments of coarse sand-sized MOLLUSC FRAGMENTS and increased percentage of whole BENTHIC FORAMINIFERS appear.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>1, 53 D</p> <p>COMPOSITION:</p> <p>Bioclast 15 Clay 10 Dolomite 15 Feldspar 2 Foraminifers 5 Inorganic calcite 35 Nannofossils 10 Quartz 7 Siliceous sponge spicules 1</p>
C/M	CNT 3b					65.8%	2	1.0					
						61.1%	3	1.5					
						68.5%	4	2.0					
						73.7%	5	2.5					
						73.5%	6	3.0					
						73.5%	7	3.5					
						73.5%	CC	3.5					
						73.5%		4.0					
						73.5%		4.5					
						73.5%		5.0					
						73.5%		5.5					
						73.5%		6.0					



SITE 820 HOLE B		CORE 37X		CORED INTERVAL 338.2-347.9 mbsf																																																																																																								
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SEP. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																															
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS											DIATOMS																																																																																														
PLEISTOCENE	N22 - N23 INC			NOT MEASURED									<p>Major lithology: This core contains partially lithified, BIOCLASTIC CLAYEY PACKSTONE in Section 1, dark greenish gray (5GY 4/1) to NANNOFOSSIL BIOCLASTIC CLAYSTONE, dark gray (5GY 4/1) in the remaining sections. A layer of BENTHIC FORAMINIFERS and small GASTROPODS occurs in Section 3, at 18 cm and at 96 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>CF</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>2, 82</td> <td>2, 86</td> <td>2, 86</td> <td>4, 70</td> <td></td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td></td> </tr> </tbody> </table> <p>COMPOSITION:</p> <table border="1"> <thead> <tr> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>Bioclast</td> <td>30</td> <td>35</td> <td>83</td> <td>20</td> </tr> <tr> <td>Clay</td> <td>15</td> <td>13</td> <td>---</td> <td>30</td> </tr> <tr> <td>Dolomite</td> <td>---</td> <td>7</td> <td>---</td> <td>---</td> </tr> <tr> <td>Feldspar</td> <td>3</td> <td>Tr</td> <td>---</td> <td>3</td> </tr> <tr> <td>Fish</td> <td>---</td> <td>---</td> <td>Tr</td> <td>---</td> </tr> <tr> <td>Foraminifers</td> <td>3</td> <td>Tr</td> <td>10</td> <td>3</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>---</td> <td>---</td> <td>2</td> </tr> <tr> <td>Micrite</td> <td>5</td> <td>13</td> <td>---</td> <td>2</td> </tr> <tr> <td>Nannofossils</td> <td>25</td> <td>15</td> <td>---</td> <td>15</td> </tr> <tr> <td>Opauques</td> <td>---</td> <td>---</td> <td>5</td> <td>---</td> </tr> <tr> <td>Quartz</td> <td>12</td> <td>15</td> <td>---</td> <td>20</td> </tr> <tr> <td>Rock fragment</td> <td>Tr</td> <td>---</td> <td>---</td> <td>---</td> </tr> <tr> <td>Siliceous sponge spicules</td> <td>2</td> <td>---</td> <td>---</td> <td>2</td> </tr> <tr> <td>Spicules</td> <td>2</td> <td>---</td> <td>---</td> <td>1</td> </tr> <tr> <td>Tunicate</td> <td>3</td> <td>2</td> <td>---</td> <td>2</td> </tr> </tbody> </table>		CF				2, 82	2, 86	2, 86	4, 70		D	D	D	D							Bioclast	30	35	83	20	Clay	15	13	---	30	Dolomite	---	7	---	---	Feldspar	3	Tr	---	3	Fish	---	---	Tr	---	Foraminifers	3	Tr	10	3	Mica	Tr	---	---	2	Micrite	5	13	---	2	Nannofossils	25	15	---	15	Opauques	---	---	5	---	Quartz	12	15	---	20	Rock fragment	Tr	---	---	---	Siliceous sponge spicules	2	---	---	2	Spicules	2	---	---	1	Tunicate	3	2	---	2
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Fish	---	---	Tr	---																																																																																																								
Foraminifers	3	Tr	10	3																																																																																																								
Mica	Tr	---	---	2																																																																																																								
Micrite	5	13	---	2																																																																																																								
Nannofossils	25	15	---	15																																																																																																								
Opauques	---	---	5	---																																																																																																								
Quartz	12	15	---	20																																																																																																								
Rock fragment	Tr	---	---	---																																																																																																								
Siliceous sponge spicules	2	---	---	2																																																																																																								
Spicules	2	---	---	1																																																																																																								
Tunicate	3	2	---	2																																																																																																								
A/G	N22 - N23			● 33.2%																																																																																																								
A/G	INC			● 30.2%																																																																																																								
				● 22.7%																																																																																																								
				● 29.7%																																																																																																								
				CC																																																																																																								



TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS		PHYS. PROPERTIES		SECTION		METERS		GRAPHIC LITHOLOGY		DRILLING DISTURB.		SED. STRUCTURES		SAMPLES		LITHOLOGIC DESCRIPTION																		
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	SECTION	METERS	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																													
PLEISTOCENE		N22 - N23 CN13b				NOT MEASURED		27.1% ● 39.7% ● 39.7% ● 37.0%		1 2 3 4 CC		0.5 1.0		[Lithology Diagram]		[Drilling Disturbance]		[Sed. Structures]		[Samples]		<p>CALCAREOUS SANDSTONE</p> <p>Major lithology: This core contains CALCAREOUS SANDSTONE, dark gray (5GY 4/1) in color.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>2.68 D</p> <p>COMPOSITION:</p> <table border="0"> <tr><td>Bioclast</td><td>20</td></tr> <tr><td>Clay</td><td>30</td></tr> <tr><td>Feldspar</td><td>Tr</td></tr> <tr><td>Foraminifers</td><td>5</td></tr> <tr><td>Micrite</td><td>10</td></tr> <tr><td>Nannofossils</td><td>15</td></tr> <tr><td>Quartz</td><td>20</td></tr> <tr><td>Spicules</td><td>Tr</td></tr> <tr><td>Tunicate</td><td>Tr</td></tr> </table>	Bioclast	20	Clay	30	Feldspar	Tr	Foraminifers	5	Micrite	10	Nannofossils	15	Quartz	20	Spicules	Tr	Tunicate	Tr
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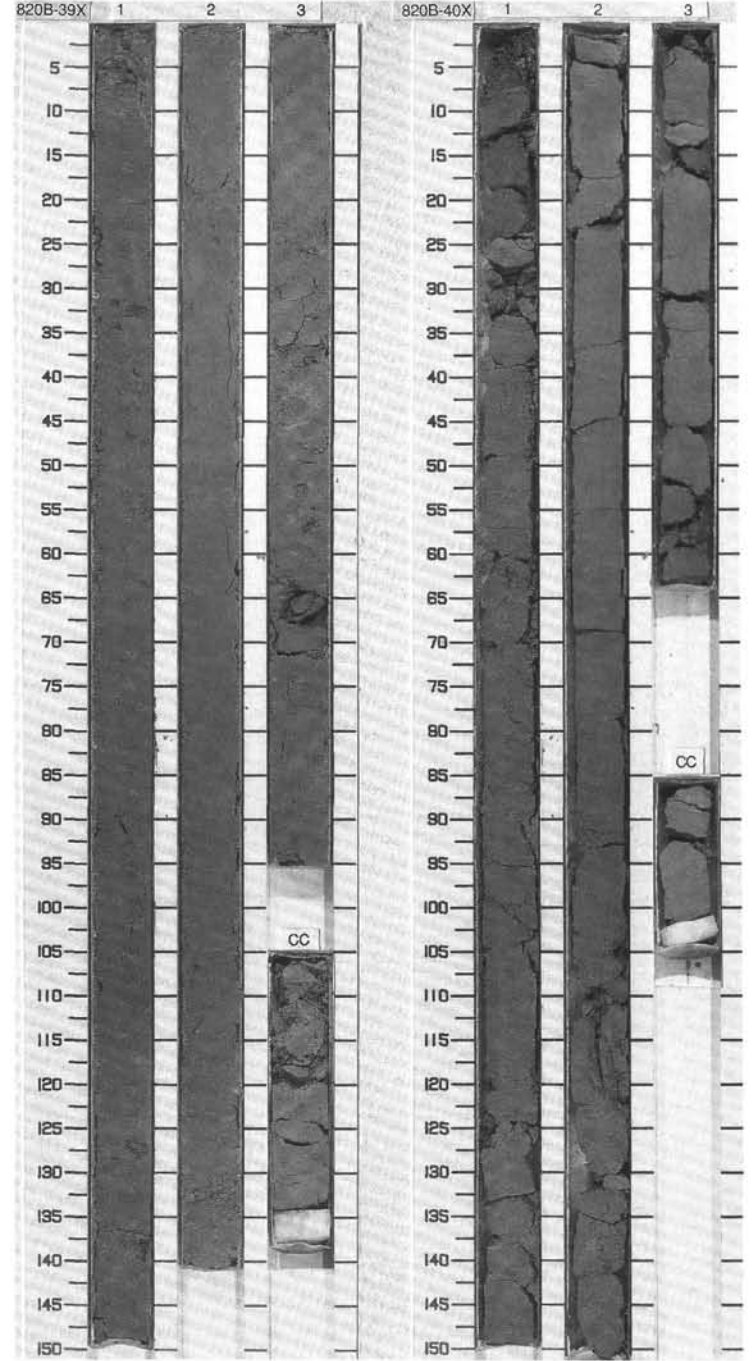


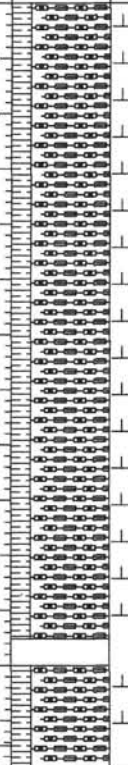
SITE 820 HOLE B CORE 39X CORED INTERVAL 357.5-362.7 mbsf

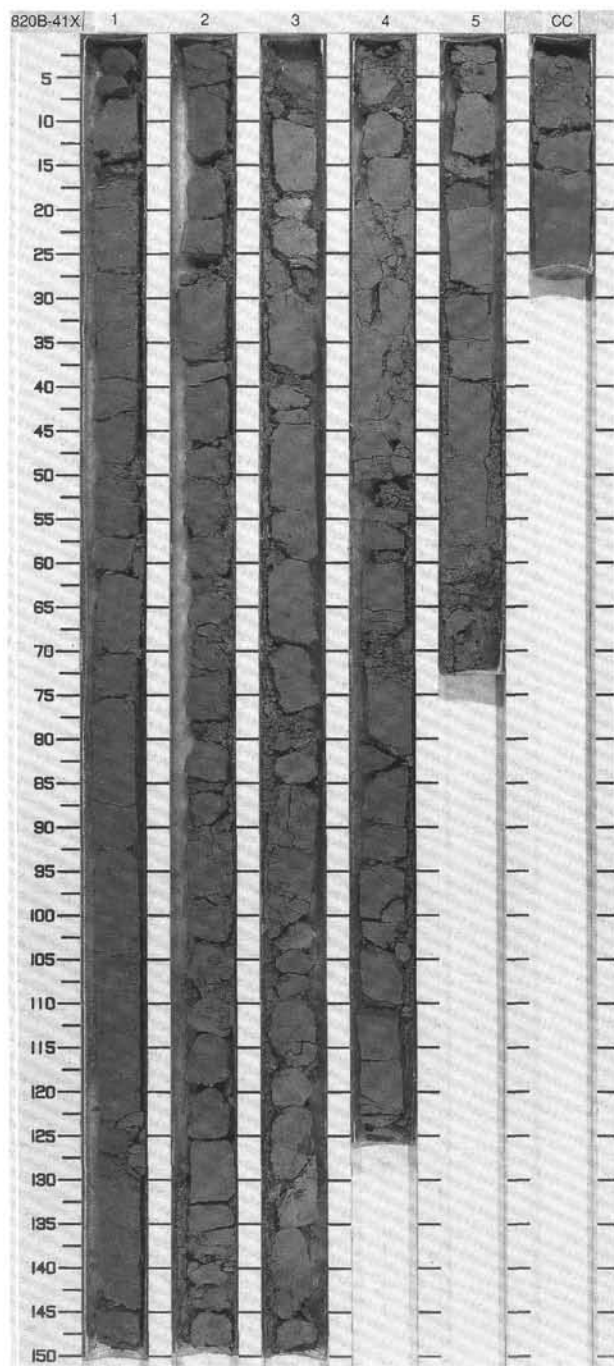
TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS		PHYS. PROPERTIES		CHEMISTRY		SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
		FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
PLEISTOCENE		N22 - N23		NOT MEASURED				39.1%		0.5				CLAYEY BIOCLASTIC PACKSTONE Major lithology: This core contains a gray (5Y 4/1), partially lithified CLAYEY BIOCLASTIC PACKSTONE.
R/M		CN13b				64.6%		1						
R/P						59.4%		2						
								3						
								CC						

SITE 820 HOLE B CORE 40X CORED INTERVAL 362.7-367.1 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									
PLEISTOCENE		N22 - N23		NOT MEASURED				88.1%		0.5				BIOCLASTIC PACKSTONE with CLAY and QUARTZ Major lithology: BIOCLASTIC PACKSTONE with CLAY and QUARTZ, gray (5Y 4/1) colored.
R/M		CN13b				75.6%		1						
C/M						64.3%		2						
								3						
								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								
	NOT MEASURED									
PLEISTOCENE	N22 - N23	CN13b			77.6% ● 74.5%	0.5 1 1.0 2 3 4 5			<p>BIOCLASTIC PACKSTONE</p> <p>Major lithology: This core contains BIOCLASTIC PACKSTONE, gray (5Y 4/1) colored, partially lithified.</p>	



SITE 820 HOLE B CORE 43X CORED INTERVAL 386.4-396.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	MAMMOFOSBILS	RADIOLARIANS										
PLEISTOCENE	?	A/M											SILTY BIOCLASTIC PACKSTONE Major lithology: This core contains partially lithified SILTY BIOCLASTIC PACKSTONE, gray (5Y 4/1) colored.
	CN13D												
				NOT MEASURED									

SITE 820 HOLE B CORE 44X CORED INTERVAL 396.0-400.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	MAMMOFOSBILS	RADIOLARIANS										
PLEISTOCENE	?	C/M											SILTY BIOCLASTIC PACKSTONE Major lithology: This core contains partially lithified SILTY BIOCLASTIC PACKSTONE, gray (5Y 4/1) colored.
		CB13D											
				NOT MEASURED									
						55.3% ●							
						65.6% ●							

