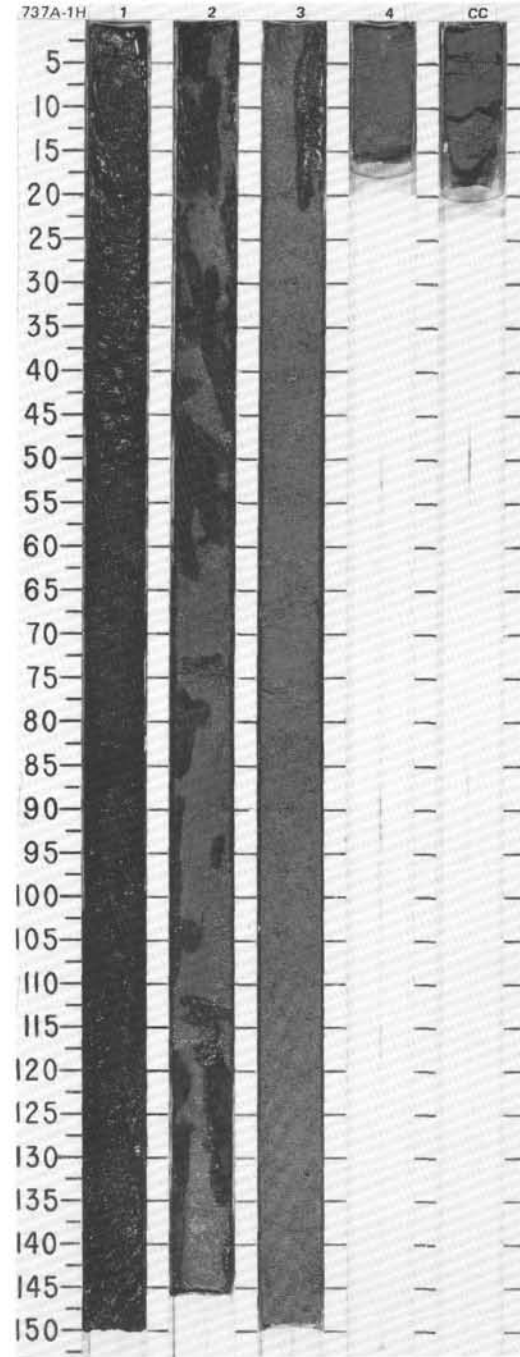
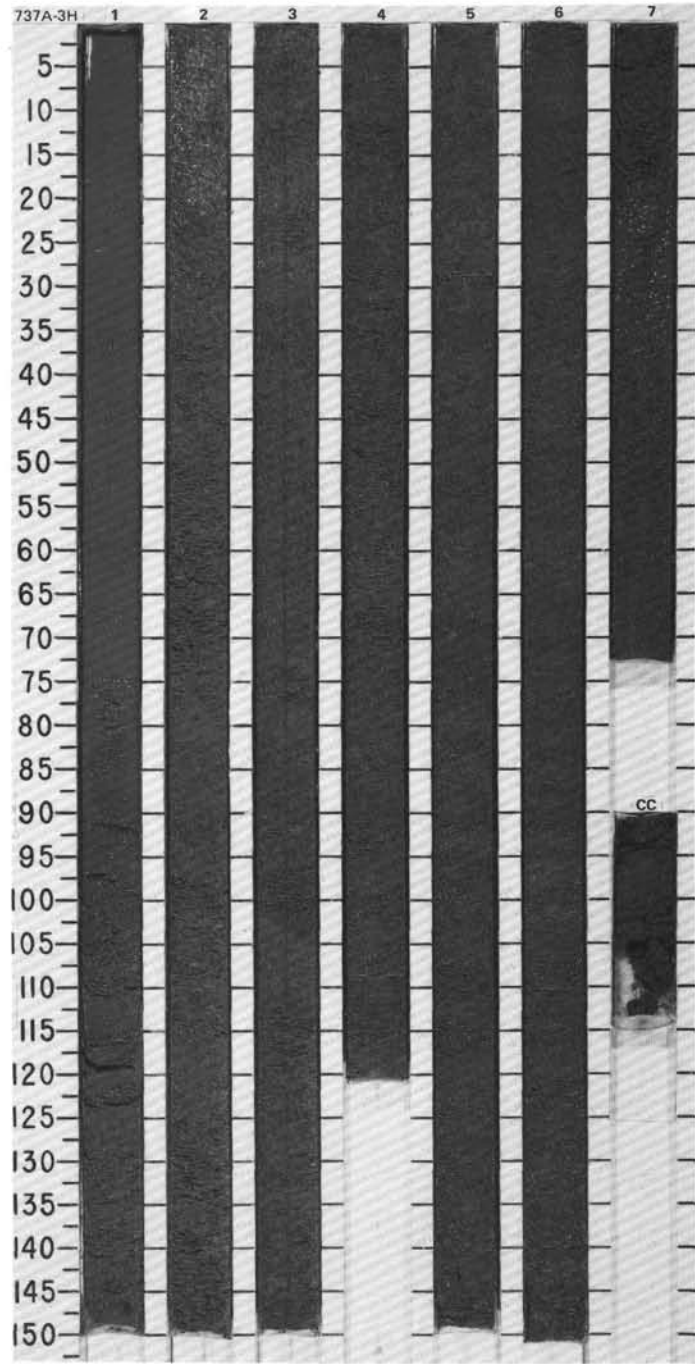


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																																														
QUATERNARY														<p>DIATOM OOZE</p> <p>Major lithology: Diatom ooze, olive (5Y 4/4) to very dark gray (5Y 3/1) and black (5Y 2.5/1) according to manganese content. Section 2 is moderately burrowed with burrows showing color zoning from olive gray (5Y 4/2) inside to black (5Y 2.5/1) on the outside, or vice versa. Section 3, 0-20 cm contains one large burrow.</p> <p>Drilling disturbance: Pebbles occur throughout Section 1 and Section 2, at 15 cm due to drilling contamination. Edges of Section 3 along along liner contaminated with black sediment.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 52</td> <td>1, 112</td> <td>1, 137</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>75</td> <td>75</td> <td>70</td> </tr> <tr> <td>Silt</td> <td>20</td> <td>20</td> <td>25</td> </tr> <tr> <td>Clay</td> <td>5</td> <td>5</td> <td>5</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Carbonate</td> <td>40</td> <td>—</td> <td>35</td> </tr> <tr> <td>Clay</td> <td>35</td> <td>40</td> <td>40</td> </tr> <tr> <td>Diatoms</td> <td>10</td> <td>10</td> <td>10</td> </tr> <tr> <td>Feldspar</td> <td>5</td> <td>10</td> <td>10</td> </tr> <tr> <td>Glass</td> <td>3</td> <td>1</td> <td>1</td> </tr> <tr> <td>Glaucinite</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Micrite</td> <td>—</td> <td>35</td> <td>—</td> </tr> <tr> <td>Pumice</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Pyroxene</td> <td>—</td> <td>1</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>—</td> <td>—</td> </tr> <tr> <td>Radiolarians</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Spicules</td> <td>Tr</td> <td>—</td> <td>Tr</td> </tr> </table>		1, 52	1, 112	1, 137	D		D	D	Sand	75	75	70	Silt	20	20	25	Clay	5	5	5	Carbonate	40	—	35	Clay	35	40	40	Diatoms	10	10	10	Feldspar	5	10	10	Glass	3	1	1	Glaucinite	—	—	—	Micrite	—	35	—	Pumice	—	—	—	Pyroxene	—	1	—	Quartz	5	—	—	Radiolarians	—	—	Tr	Spicules	Tr	—	Tr
	1, 52	1, 112	1, 137																																																																															
D		D	D																																																																															
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Pumice	—	—	—																																																																															
Pyroxene	—	1	—																																																																															
Quartz	5	—	—																																																																															
Radiolarians	—	—	Tr																																																																															
Spicules	Tr	—	Tr																																																																															
LOWER PIOCENE		NR6	A/G	<i>T. ler.</i>		%CaCO ₃ +0.4	1	0.5																																																																										
		A/G	<i>Nitzschia interfrigidaria</i>	A/G		%TOC+0.53	2																																																																											
						%CaCO ₃ +0.1	3																																																																											
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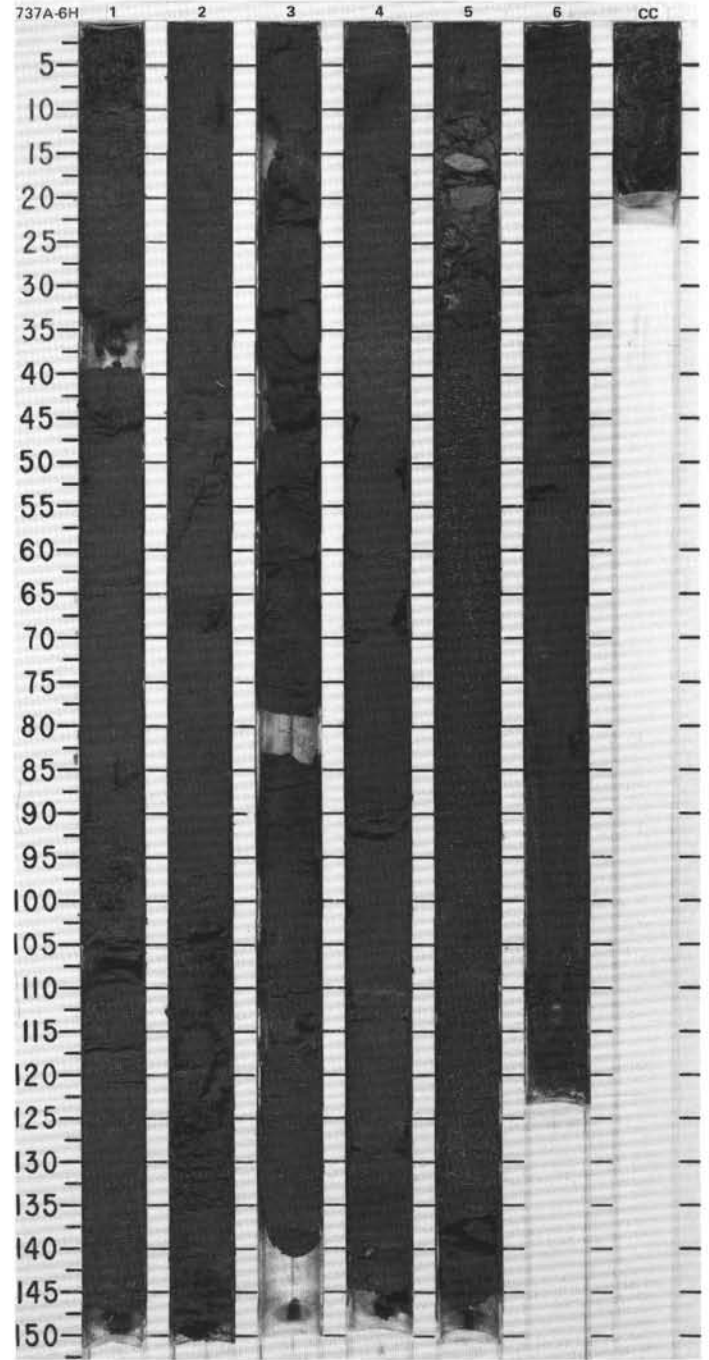


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION								
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																		
LOWER PLIOCENE	R/G	R/G	F/G	A/G	●				0.5	~				DIATOM OOZE Major lithology: Diatom ooze, olive (5Y 4/3) with a few narrow bands of lighter olive (5Y 5/3) in Sections 3, 4 and 6, homogeneous. Drilling disturbance: soupy nature of much of sediment suggests considerable remobilization during drilling. G SMEAR SLIDE SUMMARY (%): <table border="1"> <tr> <td></td> <td>2, 80</td> <td>5, 30</td> <td>6, 80</td> </tr> <tr> <td>D</td> <td></td> <td>M</td> <td>D</td> </tr> </table> TEXTURE: Sand Tr 3 5 Silt 90 92 90 Clay 10 5 5 * COMPOSITION: Access. minerals Tr Tr Tr Clay 3 3 1 Diatoms 94 92 98 Nannofossils 1 Tr Tr Pyroxene Tr - - Radiolarians 1 1 Tr Silicoflagellates 1 1 1 Spicules - - Tr		2, 80	5, 30	6, 80	D		M	D
	2, 80	5, 30	6, 80																			
D		M	D																			
					●	● $\phi=89\%$ w=78% $\gamma=1.21$		1.0	~													
		NR6			●			2	~													
			<i>Nitzschia interfrigidaria</i>		●			3	~													
					○	● $\%CaCO_3=0.5$ $\%TOC=0.49$		4	~													
			<i>Nitzschia praeinterfrigidaria</i>		○			5	~													
					●	● $\phi=88\%$ w=80% $\gamma=1.19$		6	~													
					●	● $\%CaCO_3=0.9$		7	~													
					○																	

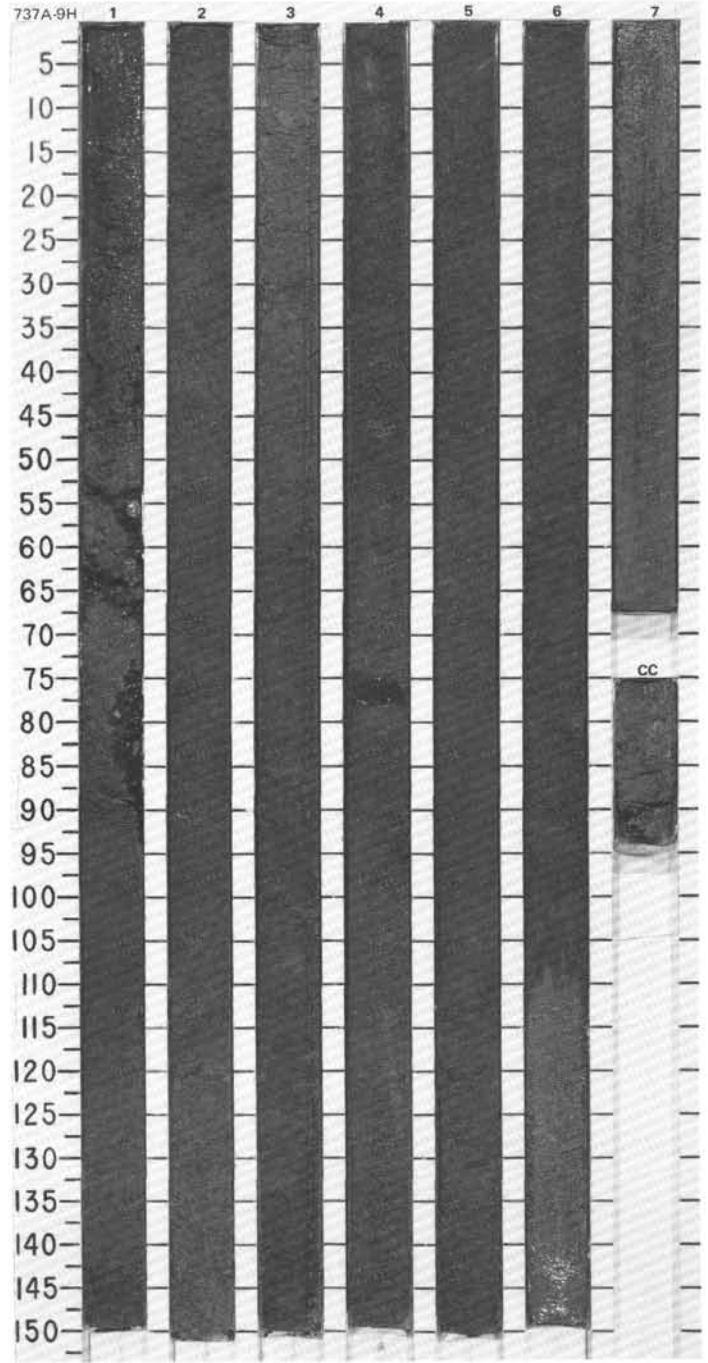


SITE 737 HOLE A CORE 6H CORED INTERVAL 43.0-52.5 mbsl

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																						
	FORAMINIFERS	MAMMOFOSSILS	RADIOLARIANS	DIATOMS																															
	Fossil names																																		
	Fossil percentages																																		
LOWER PLOIOCENE	R/G	B	A/G	A/G									<p>DIATOM OOZE</p> <p>Major lithology: Diatom ooze, olive gray (5Y 4/2) to gray (5Y 4/1), mainly homogeneous. Silt-sized ash fragments and basaltic sand grains, and a pebble occur in lower half of Section 6 (82 cm).</p> <p>Minor lithologies:</p> <p>a. Gray ash layer (5Y 4/1) at 110-111 cm in Section 4.</p> <p>b. Indurated micrite, olive gray (5Y 5/2) at 10-20 cm in Section 5.</p> <p>Drilling disturbance: a mixture of diatom ooze and basalt pebbles up to 2 cm diameter in top 10 cm of Section 1 represents caved-in material.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr><td>Clay</td><td>6, 100</td></tr> <tr><td>M</td><td></td></tr> </table> <p>TEXTURE:</p> <table border="0"> <tr><td>Silt</td><td>95</td></tr> <tr><td>Clay</td><td>5</td></tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr><td>Clay</td><td>1</td></tr> <tr><td>Diatoms</td><td>90</td></tr> <tr><td>Glass</td><td>5</td></tr> <tr><td>Pyroxene</td><td>2</td></tr> <tr><td>Radiolarians</td><td>Tr</td></tr> <tr><td>Silicoflagellates</td><td>2</td></tr> <tr><td>Spicules</td><td>Tr</td></tr> </table>	Clay	6, 100	M		Silt	95	Clay	5	Clay	1	Diatoms	90	Glass	5	Pyroxene	2	Radiolarians	Tr	Silicoflagellates	2	Spicules	Tr
Clay	6, 100																																		
M																																			
Silt	95																																		
Clay	5																																		
Clay	1																																		
Diatoms	90																																		
Glass	5																																		
Pyroxene	2																																		
Radiolarians	Tr																																		
Silicoflagellates	2																																		
Spicules	Tr																																		
			NR6	<i>Nitzschia angulata</i>					0.5	VOID																									
					● $\phi = 80\%$ w=71% $\gamma = 1.21$			1																											
					● $\phi = 85\%$ w=71% $\gamma = 1.28$			2																											
					● $\phi = 80\%$ w=71% $\gamma = 1.21$			3		VOID																									
					● $\phi = 80\%$ w=71% $\gamma = 1.21$			4		VOID																									
					● $\phi = 80\%$ w=71% $\gamma = 1.21$			5																											
					● $\phi = 80\%$ w=71% $\gamma = 1.21$			6																											
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					● $\phi = 80\%$ w=71% $\gamma = 1.21$			8																											
					● $\phi = 80\%$ w=71% $\gamma = 1.21$			9																											
					● $\phi = 80\%$ w=71% $\gamma = 1.21$			10																											

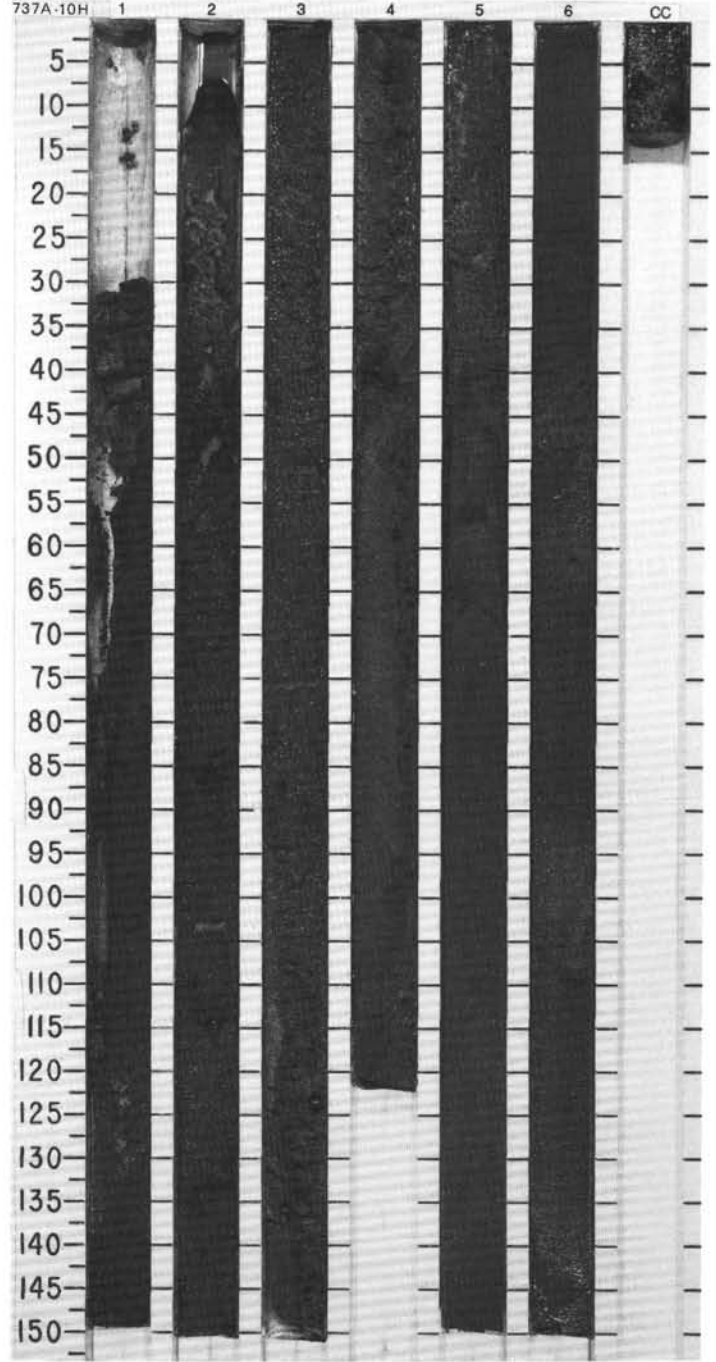


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION							
	FORAMINIFERS	MAMMOFOSILS	RADIOLARIANS	DIATOMS																
LOWER PLIOCENE	<i>Neoglobobquadrina pachyderma</i>				● 83% w-69% 7-1.11		1					DIATOM OOZE Major lithology: Diatom ooze, olive gray (5Y 4/2), locally dark gray (5Y 4/1), homogeneous. Minor lithologies: a. Volcanic ash comprising silt size grains, dark gray (5Y 4/1) in Section 4, 75-79 cm. b. Diatom ooze with some silt in Section 6, 100-110 cm. Drilling disturbance: a mixture of diatom ooze, and black (5Y 2.5/1) basalt and light olive gray (5Y 6/2) micrite pebbles in the top 92 cm of Section 1 represents cave-in material. SMEAR SLIDE SUMMARY (%): <table border="1"> <tr><td>M</td><td>4.78</td><td>5.90</td></tr> <tr><td>D</td><td></td><td></td></tr> </table> TEXTURE: Sand 7 1 Silt 90 90 Clay 3 9 COMPOSITION: Access. minerals 1 Tr Diatoms 5 96 Glass 83 Tr Gypsum - 1 Pyroxene 1 - Quartz 10 - Radiolarians - 2 Silicoflagellates - 1	M	4.78	5.90	D				
M	4.78	5.90																		
D																				
	<i>Nitzschia reinholdii</i>												● %CaCO ₃ =7.2		2					
C/G																				
C/G													● %CaCO ₃ =7.2		3					
C/G NR8																				
A/M					● %CaCO ₃ =7.2		4			G *										
					● %CaCO ₃ =7.2		5													
					● %CaCO ₃ =7.2		6													
					● %CaCO ₃ =7.2		7													
					CC															

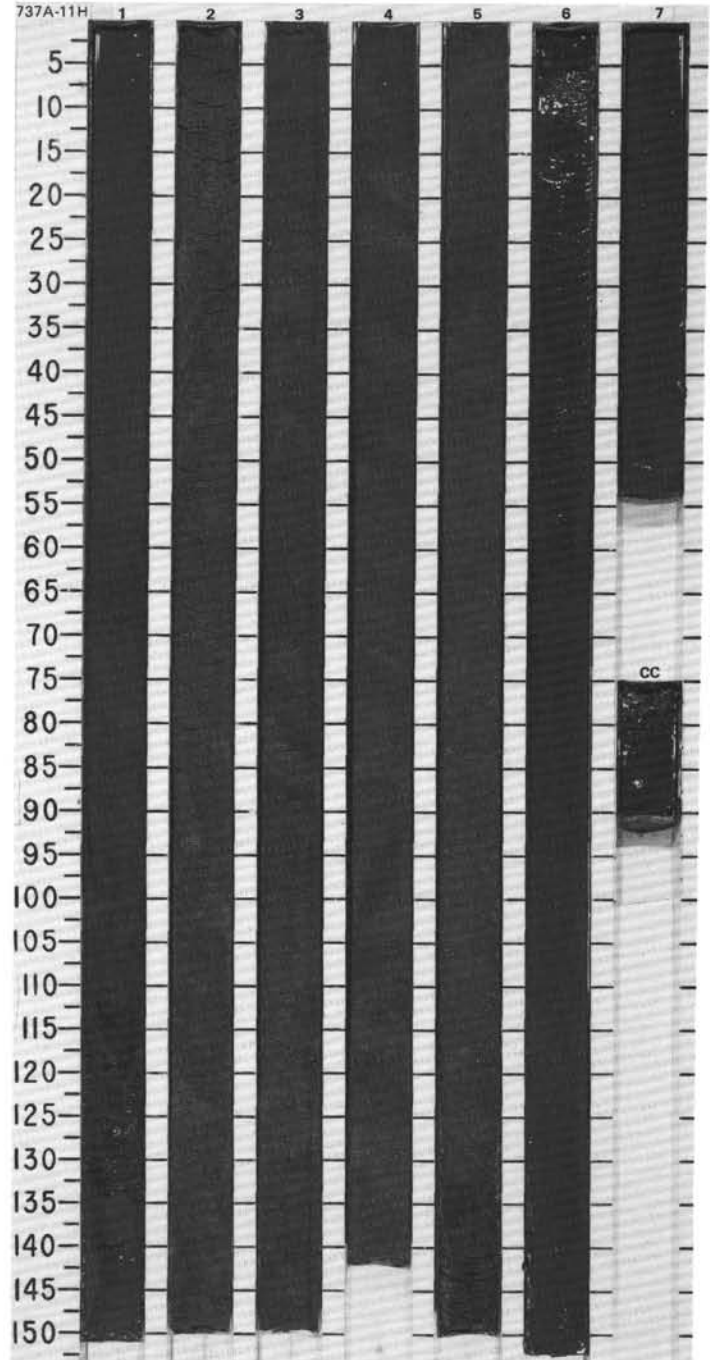


SITE 737 HOLE A CORE 10H CORED INTERVAL 81.0-90.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES SAMPLES	LITHOLOGIC DESCRIPTION																																											
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																	
LOWER PLIOCENE										<p>DIATOM OOZE</p> <p>Major lithology: Diatom ooze, olive (5Y 4/4) and olive gray (5Y 4/2), homogeneous. Occupies core from Section 3, 90 cm to Section 6, 150 cm (bottom).</p> <p>Drilling disturbance: mixed black (5Y 2.5/1) basaltic sand and silt, micritic carbonate grains and pellets of olive (5Y 4/2) diatom ooze occupy the entire core from Section 1, 30 cm to Section 3, 90 cm. It then extends further down half the width of the core, against the core liner, to Section 4, 23 cm. This is all due to drilling disturbance, probably cave-in.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td>1, 130</td> <td>5, 55</td> </tr> <tr> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>10</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>80</td> <td>92</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>3</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Access. minerals</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Basalt fragments</td> <td>10</td> <td>—</td> </tr> <tr> <td>Diatoms</td> <td>72</td> <td>88</td> </tr> <tr> <td>Glass</td> <td>—</td> <td>5</td> </tr> <tr> <td>Gypsum</td> <td>—</td> <td>3</td> </tr> <tr> <td>Nannofossils</td> <td>15</td> <td>—</td> </tr> <tr> <td>Pyroxene</td> <td>1</td> <td>1</td> </tr> <tr> <td>Quartz</td> <td>1</td> <td>1</td> </tr> <tr> <td>Silicoflagellates</td> <td>1</td> <td>1</td> </tr> <tr> <td>Spicules</td> <td>—</td> <td>1</td> </tr> </table>	1, 130	5, 55	D	D	Sand	10	5	Silt	80	92	Clay	10	3	Access. minerals	Tr	Tr	Basalt fragments	10	—	Diatoms	72	88	Glass	—	5	Gypsum	—	3	Nannofossils	15	—	Pyroxene	1	1	Quartz	1	1	Silicoflagellates	1	1	Spicules	—	1
1, 130	5, 55																																																				
D	D																																																				
Sand	10	5																																																			
Silt	80	92																																																			
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Access. minerals	Tr	Tr																																																			
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Quartz	1	1																																																			
Silicoflagellates	1	1																																																			
Spicules	—	1																																																			
R/M					<p>• $X_{CaCO_3} = 0.5$ % TOC=0.24</p> <p>• $\phi = 88\%$ w=77% $\gamma = 1.21$</p> <p>• $X_{CaCO_3} = 1.7$</p>																																																
F/M																																																					
A/G	NR8																																																				
C/M																																																					
	A/G																																																				

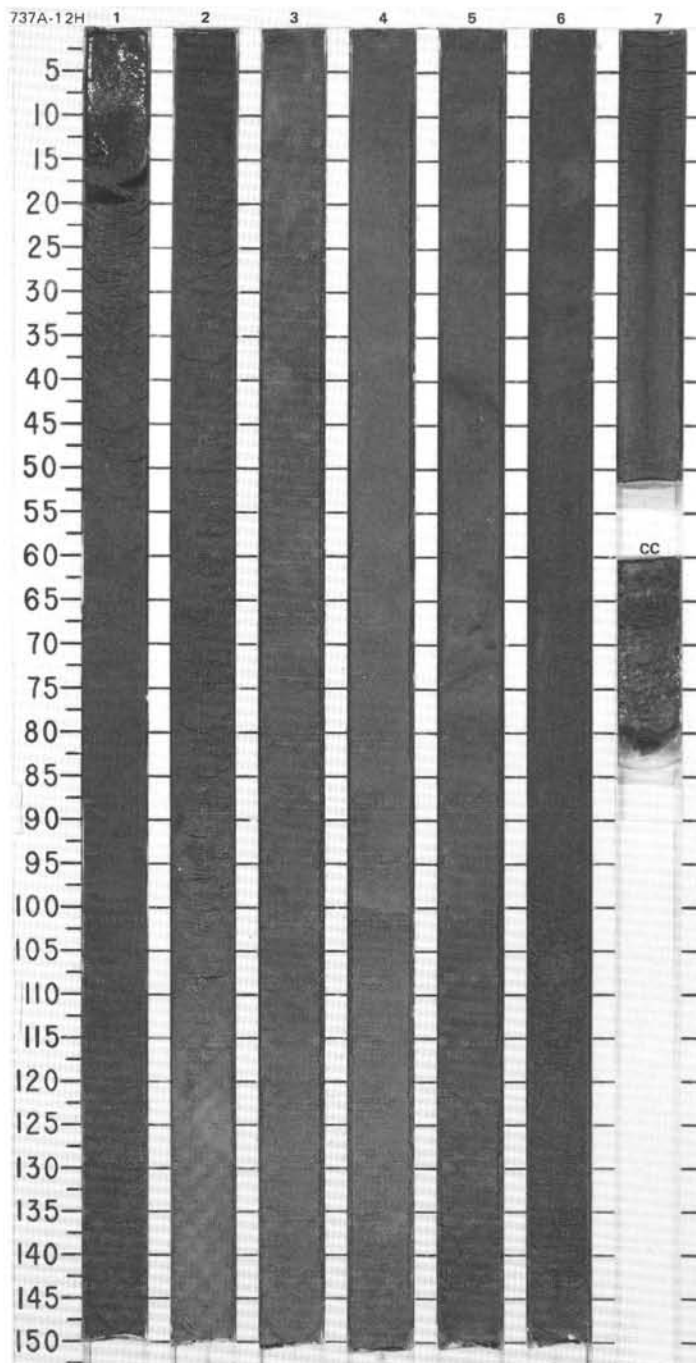


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																								
	FORAMINIFERS	NANOFOSILS	RADIOLARIANS	DIATOMS																																																	
LOWER PLIOCENE	B							0.5					<p>DIATOM OOZE</p> <p>Major lithology: Diatom ooze, olive gray (5Y 4/2), consisting of sand 2%, silt 88%, clay 10%, mean grain size 12um, but with rare scattered basalt granules (>3mm size, fewer than 1/section). Burrow structure with dark gray (5Y 4/1) interior at Section 2 (36-41 cm).</p> <p>Drilling disturbance: while contamination occurs along the sides against the liner, some of the basalt granules do occur set within undisturbed ooze. Other areas have high water contents and may be drill-disturbed.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>1</td> <td>125</td> <td>3</td> <td>71</td> </tr> <tr> <td></td> <td>D</td> <td></td> <td>D</td> <td></td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>25</td> <td>20</td> </tr> <tr> <td>Silt</td> <td>65</td> <td>70</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>10</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Access. minerals</td> <td>5</td> <td>5</td> </tr> <tr> <td>Diatoms</td> <td>80</td> <td>65</td> </tr> <tr> <td>Glass</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Gypsum</td> <td>10</td> <td>25</td> </tr> <tr> <td>Radiolarians</td> <td>2</td> <td>Tr</td> </tr> <tr> <td>Silicoflagellates</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Spicules</td> <td>Tr</td> <td>Tr</td> </tr> </table>		1	125	3	71		D		D		Sand	25	20	Silt	65	70	Clay	10	10	Access. minerals	5	5	Diatoms	80	65	Glass	Tr	Tr	Gypsum	10	25	Radiolarians	2	Tr	Silicoflagellates	Tr	Tr	Spicules	Tr	Tr
		1	125	3	71																																																
		D		D																																																	
	Sand	25	20																																																		
	Silt	65	70																																																		
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	Access. minerals	5	5																																																		
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SITE 737 HOLE A CORE 12H CORED INTERVAL 100.0-109.5 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
LOWER PLIOCENE													
R/G	B	A/G NR9	A/G										
		Nitzschia reinholdii											
				○			1	0.5		○			DIATOM OOZE
				○			2	1.0		○			Major lithology: Diatom ooze, olive gray (5Y 5/2, 5Y 4/2), homogeneous. Olive gray carbonate rich zone between 126 and 130 cm in Section 1 composed of 14% sand, 81% silt, and 5% clay. Severe drilling disturbance occurs in the top 30 cm of core.
				○	●		3				*		SMEAR SLIDE SUMMARY (%):
				○	●		4				g		Access. minerals Tr
				○	●		5						Diatoms 95
				○	●		6						Feldspar Tr
				○	●		7						Gypsum Tr
				○	●		CC						



SITE 737 HOLE A CORE 15H CORED INTERVAL 128.5-138.0 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS								
LOWER PLEISTOCENE									
R/M	B	A/G NR9		$\phi = 84\%$ w-73% $\gamma = 1.25$					
	A/G	<i>Nitzschia reinholdii</i>		$\%CaCO_3 = 0.1$					

DIATOM OOZE

Major lithology:
Diatom ooze, olive gray (5Y 5/2) to very dark gray (5Y 3/1); homogeneous. Pale olive (5Y 6/3) streaks, Section 5, 78-80 cm, 89-92 cm.

Minor lithology:
Carbonate-cemented diatom ooze, Section 1, 130-124 cm.

Drilling disturbance: drilling contamination due to hole cave-in; Section 1, 0-14 cm, scattered grains and granules of black (5Y 2.5/1) basalt and light olive gray (5Y 6/2) pumice; Section 1, 14-32 cm, volcanic sand. Sections 6 and 7 moderately disturbed.

SMEAR SLIDE SUMMARY (%):

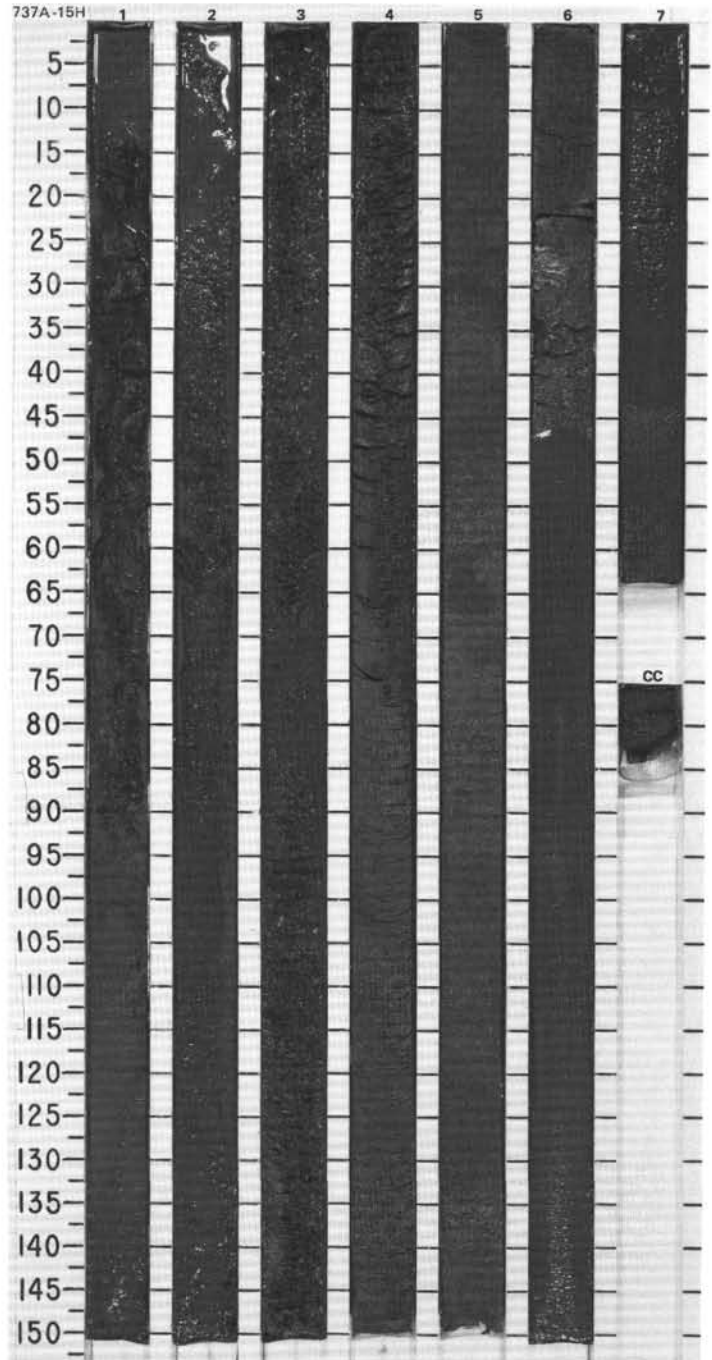
	1, 30	CC, 8
	M	M

TEXTURE:

Sand	--	--
Silt	--	--
Clay	--	--

COMPOSITION:

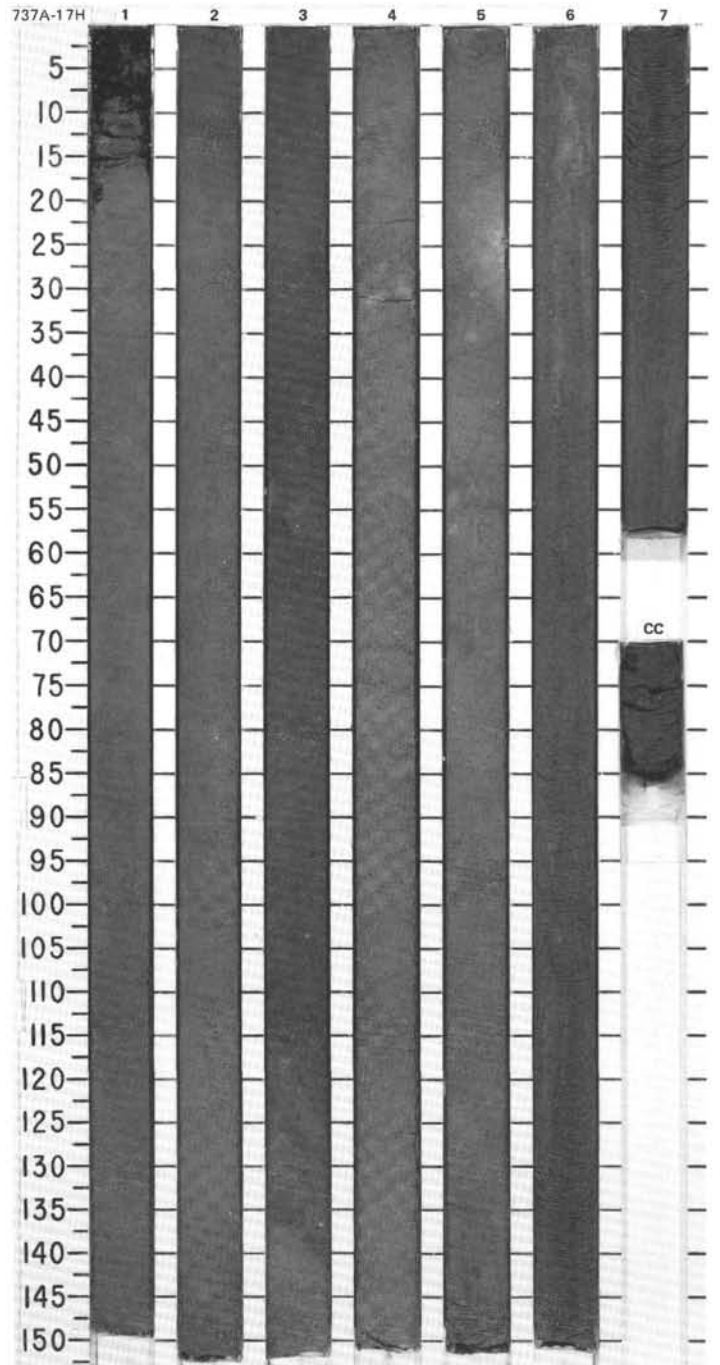
Diatoms	--	15
Foraminifers	--	3
Glass	5	40
Nannofossils	--	40
Oxide	--	2
Palagonite	95	1
Spicules	--	1

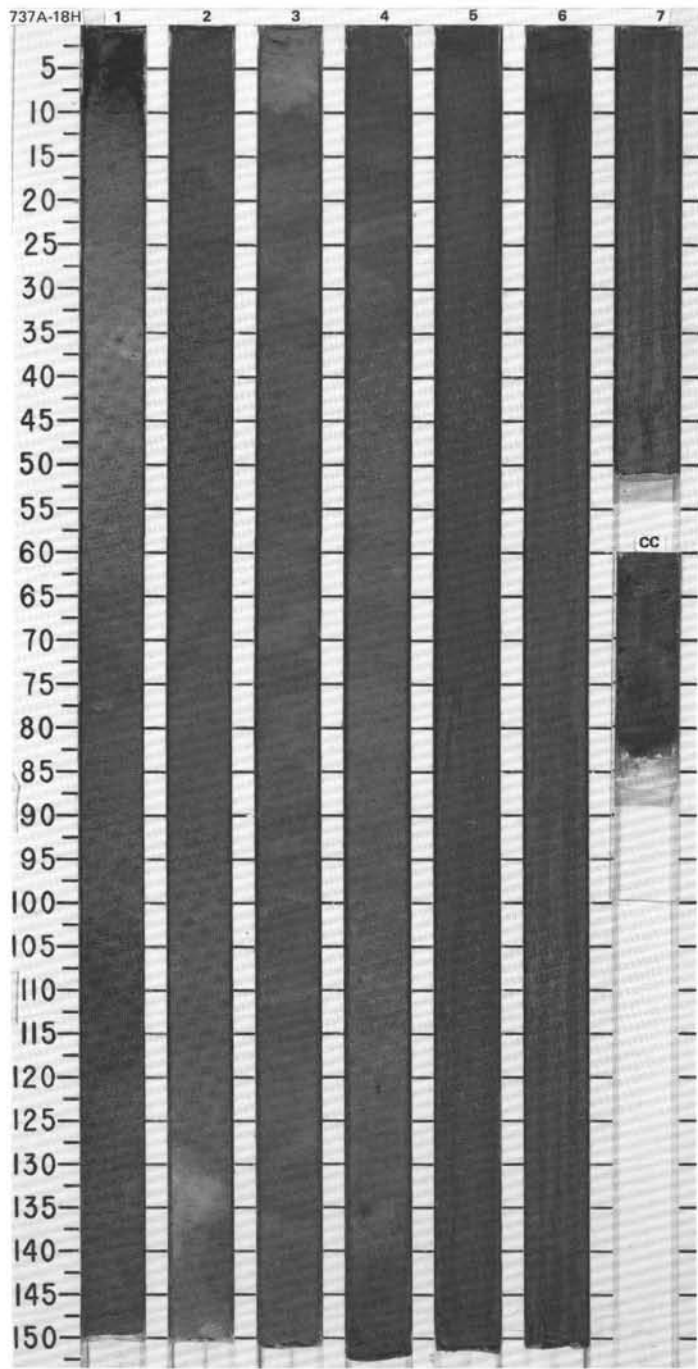
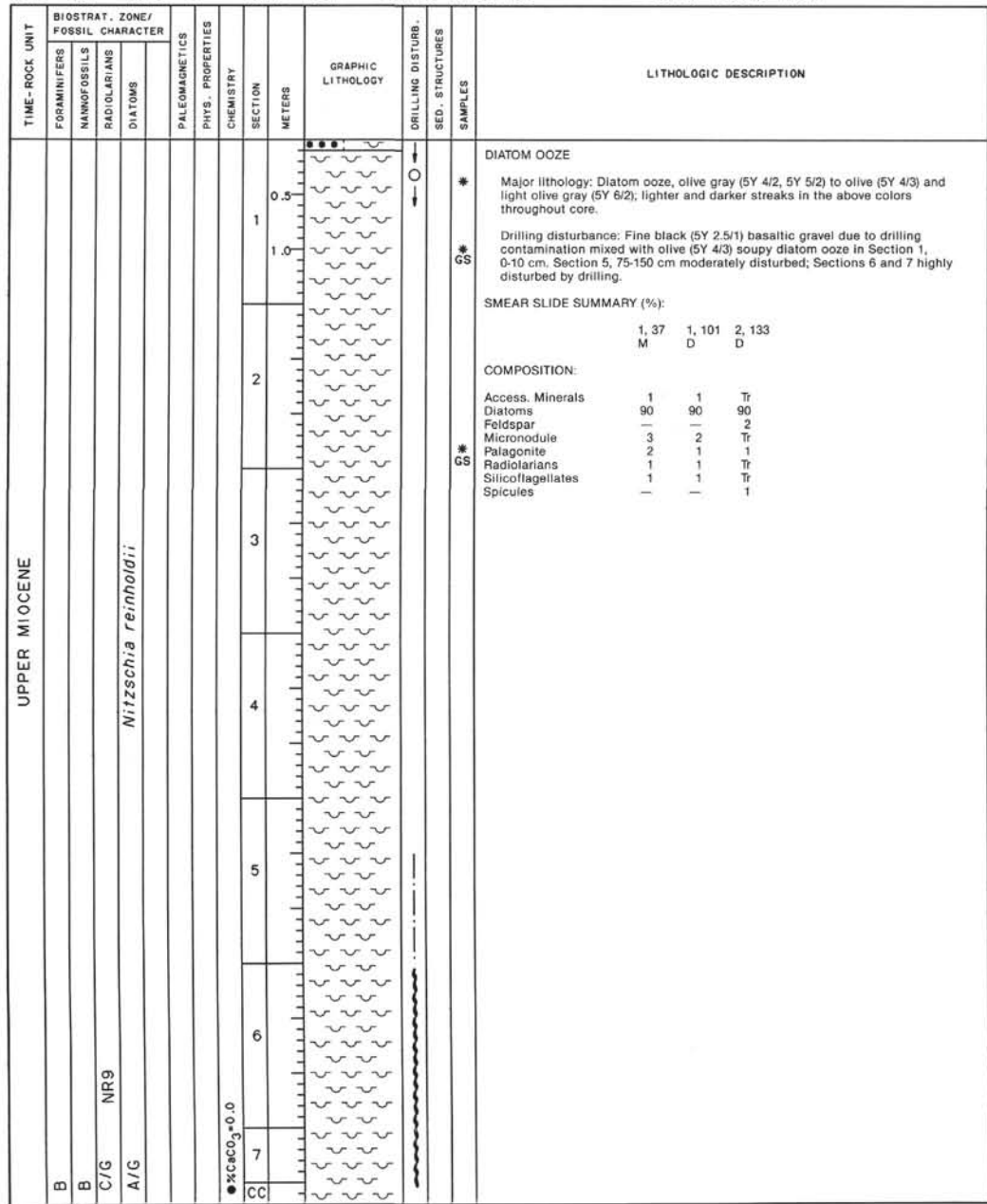


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																													
		FORAMINIFERS	MAMMOFOSSILS	RADIOLARIANS	DIATOMS																																							
UPPER MIOCENE		B												DIATOM OOZE Major lithology: Diatom ooze, olive (5Y 5/3), compact, featureless apart from small mottles (Sections 3, 4, 5). Grain size parameters are: 1% sand, 91% silt, 8% clay, with average size 13 μ m. Drilling disturbance: the upper 20 cm of Section 1 is completely deformed. SMEAR SLIDE SUMMARY (%): <table border="1" style="margin-left: 40px;"> <tr> <td></td> <td>4, 29</td> <td>5, 25</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> TEXTURE: <table border="1" style="margin-left: 40px;"> <tr> <td>Sand</td> <td>2</td> <td>2</td> </tr> <tr> <td>Silt</td> <td>90</td> <td>90</td> </tr> <tr> <td>Clay</td> <td>8</td> <td>8</td> </tr> </table> COMPOSITION: <table border="1" style="margin-left: 40px;"> <tr> <td>Diatoms</td> <td>95</td> <td>95</td> </tr> <tr> <td>Feldspar</td> <td>2</td> <td>2</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Silicoflagellates</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Spicules</td> <td>Tr</td> <td>—</td> </tr> </table>		4, 29	5, 25	D	D	D	Sand	2	2	Silt	90	90	Clay	8	8	Diatoms	95	95	Feldspar	2	2	Radiolarians	Tr	Tr	Silicoflagellates	Tr	Tr	Spicules	Tr	—
	4, 29	5, 25																																										
D	D	D																																										
Sand	2	2																																										
Silt	90	90																																										
Clay	8	8																																										
Diatoms	95	95																																										
Feldspar	2	2																																										
Radiolarians	Tr	Tr																																										
Silicoflagellates	Tr	Tr																																										
Spicules	Tr	—																																										
								1	0.5 1.0																																			
								2																																				
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								6																																				
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								CC																																				

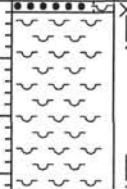
FOSSIL CHARACTERISTICS:
 C/G NR9
 A/M
Nitzschia rennoldii
 ● ϕ -84% w-74% γ -1.21
 ● ϕ -85% w-73% γ -1.24
 ● $\%CaCO_3 = 0.1$

DRILLING DISTURBANCE:
 *G5
 G6




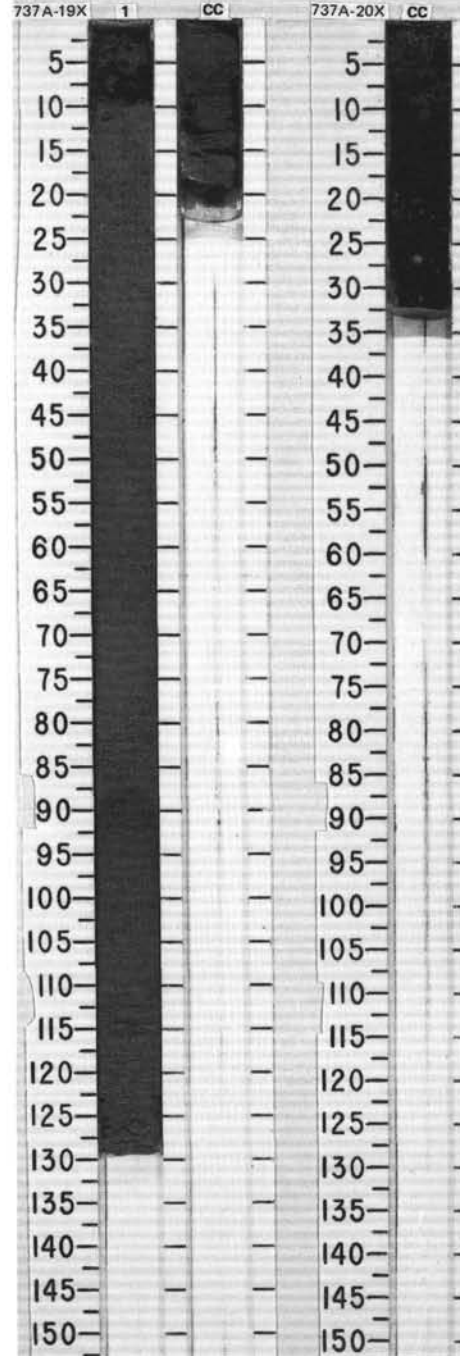


SITE 737 HOLE A CORE 19X CORED INTERVAL 166.5 - 176.2 mbsf

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									
UPPER MIOCENE	B	B	R/G NR9	R/G			●%CaCO ₃ = 0.1	CC	0.5 1 1.0		X		DIATOM OOZE Diatom ooze, olive (5Y 5/3) to olive gray (5Y 5/2). Black basalt pebbles in Section 1 and core catcher. Broken gastropod shell at 79 cm in Section 1, and calcareous tubule at 130 cm in Section 1. Drilling disturbance: black scoriaceous basalt pebbles coated in diatom ooze at top of Section 1 due to drilling contamination.

SITE 737 HOLE A CORE 20X CORED INTERVAL 176.2 - 185.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
UPPER MIOCENE	B	B	R/G NR9	R/G			●%CaCO ₃ = 0.1	CC			X		No true recovery, only 32 cm of mixed sand and gravel due to drilling breccia.



SITE 737 HOLE A CORE 21X CORED INTERVAL 185.9-195.6 mbsf

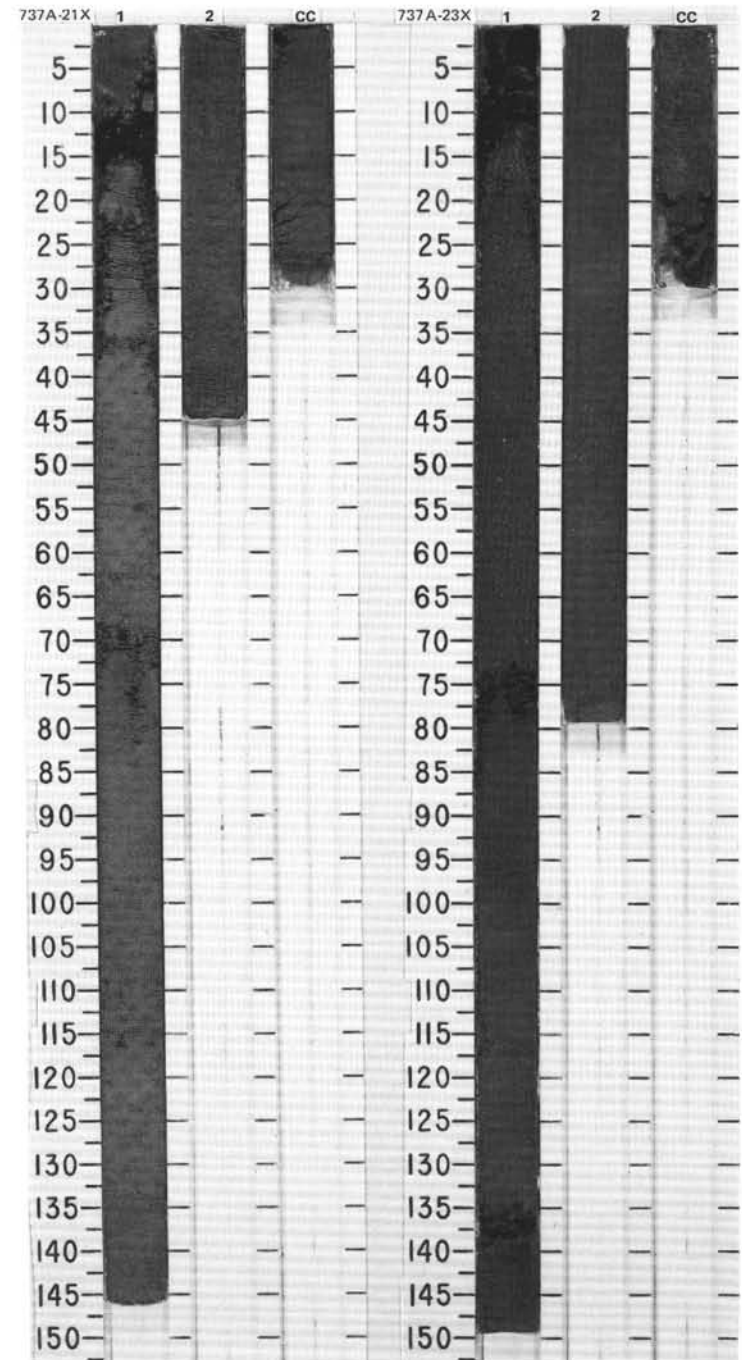
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
UPPER MIOCENE	B	B	R/G NR9			\bullet %CaCO ₃ = 0.2 \bullet %SiOC = 0.57 \bullet %CaCO ₃ = 0.1 \bullet	1 2 CC	0.5 1.0					<p>DIATOM OOZE</p> <p>Major lithology: Diatom ooze, olive (5Y 5/3), with small pebbles.</p> <p>Drilling disturbance: mixed diatom ooze and sand and gravel in the top 38 cm of Section 1 and scattered pebbles between 38 and 146 cm in Section 1 and in core catcher due to drilling contamination.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>1, 98 D</p> <p>TEXTURE:</p> <p>Sand 5 Silt 87 Clay 8</p> <p>COMPOSITION:</p> <p>Access. minerals 1 Diatoms 95 Feldspar 2 Radiolarians Tr Silicoflagellates Tr Spicules Tr</p>

737 A 22X NO RECOVERY

SITE 737 HOLE A CORE 23X CORED INTERVAL 205.3-215.0 mbsf

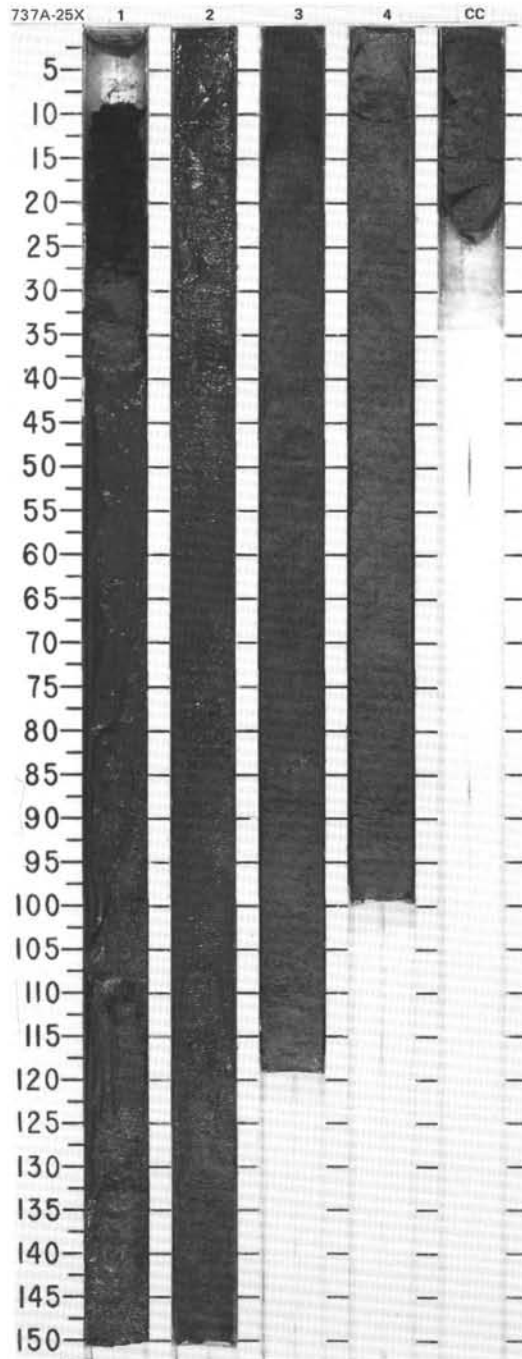
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
UPPER MIOCENE	R/G	B	C/G			\bullet %CaCO ₃ = 0.5 ϕ = 89% w = 79% γ = 1.51 \bullet	1 2 CC	0.5 1.0					<p>DIATOM OOZE</p> <p>Major lithology: DIATOM OOZE, olive (5Y 4/3).</p> <p>Drilling disturbance: Parts of Section 1, 0-20, 70-80, and 135-140 cm, are filled with gravel and may represent the addition and mixing of caved-in material.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>2, 50 D</p> <p>TEXTURE:</p> <p>Sand 3 Silt 95 Clay 2</p> <p>COMPOSITION:</p> <p>Access. Minerals Tr Diatoms 99 Radiolarians Tr Silicoflagellates 1 Spicules Tr</p>

737 A 24X NO RECOVERY



SITE 737

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SEP. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
UPPER MIOCENE	RM-G	FORAMINIFERS	NAANFOSSILS										
	R/P						1	0.5	VOID				<p>DIATOM OOZE</p> <p>Major lithology: DIATOM OOZE, olive (5Y 4/2). Sprinkled with 1 mm volcanic particles in Section 2, 0-120 cm.</p> <p>Minor lithology: Volcanic particles and diatom ooze in bowed dark olive (5Y 3/2) layers; 1 cm thick in Section 3, 10-15 cm, and two thin layers in Section 4, 0-5 cm.</p> <p>Drilling disturbance: Black (5Y 2.5/1) basaltic sand near the top of the core, in Section 1, 12-30 cm, represents caved-in material. It is mixed with mm-sized shiny black (5Y 2.5/1) manganese nodules and quartz and pyroxene xenocrysts.</p> <p>* SMEAR SLIDE SUMMARY (%):</p> <p style="padding-left: 40px;">2, 30 D</p> <p>TEXTURE:</p> <p>Sand 1 Silt 90 Clay 9</p> <p>COMPOSITION:</p> <p>Access. Minerals Tr Basalt Fragments 1 Diatoms 95 Quartz Tr Radiolarians 1 Silicoflagellates 1 Spicules 2</p>
	F/G NR9						2	1.0					
	A/G	<i>Nitzschia reinholdii</i>					3						
	O						4						
	CC												



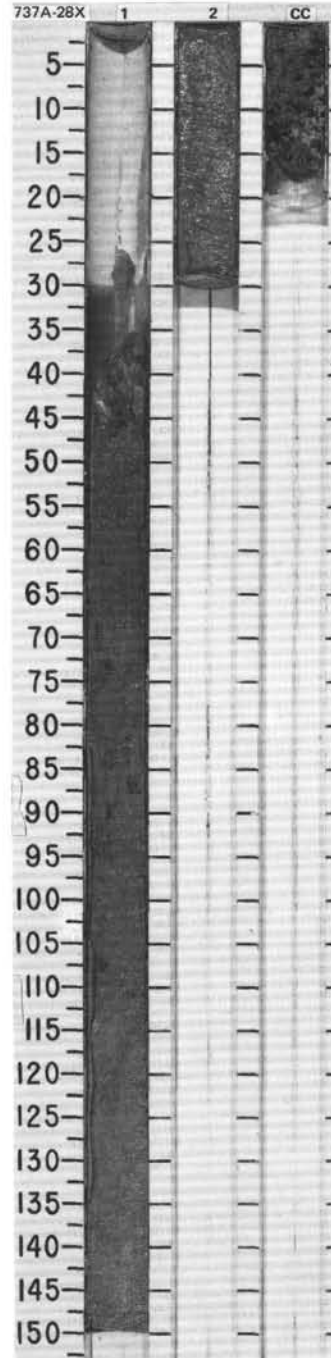
TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
UPPER MIOCENE		FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
F/M	A/G	A/G NR9	A/M	A/G										
<i>Neogloboquadrina pachyderma</i>	no Zone													
		<i>Nitzschia reinholdii</i>												
		<i>D. hustedtii</i>												
					γ=1.44	●=85%	*=70%							
					%CaCO ₃ +46.0 (2-3) ● %CaCO ₃ +0.1 (0-1)									
DIATOM OOZE														
Major lithology: DIATOM OOZE, olive (5Y 4/2)														
Minor lithology: Nannofossil ooze, occurring as white (5Y 8/2) pieces a few mm to 1 cm in size in olive (5Y 4/2) diatom ooze matrix, makes up 25% of CC, 35-48 cm.														
Drilling disturbance: Gravel cave-in material in Section 1, 0-10 cm.														
SMEAR SLIDE SUMMARY (%):														
													2, 19	CC, 40
													D	M
TEXTURE:														
													5	3
													90	47
													5	50
COMPOSITION:														
													Tr	—
													5	—
													94	50
													Tr	50
													1	Tr
													—	Tr
													Tr	Tr



TIME- ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIODIOLARIANS	DIATOMS										
UPPER MIOCENE														
A/M -G	A/G													
	A/G													
	C/G	NR10												
	A/G	<i>Denticulopsis hustedii</i>												
						● $\phi = 74\%$ w=56% $\gamma = 1.37$								
						● %CaCO ₃ = 56.3								
								1	0.5	VOID	○	○	○	DIATOM NANNOFOSSIL OOZE
								2	1.0		○	○	○	SMEAR SLIDE SUMMARY (%):
								CC			○	○	○	Sand 1,80
											○	○	○	D
											○	○	○	TEXTURE:
											○	○	○	Sand 1
											○	○	○	Silt 40
											○	○	○	Clay 59
											○	○	○	COMPOSITION:
											○	○	○	Access. Minerals Tr
											○	○	○	Clay 5
											○	○	○	Diatoms 42
											○	○	○	Glass Tr
											○	○	○	Nannofossils 50
											○	○	○	Oxide Tr
											○	○	○	Radiolarians 1
											○	○	○	Silicoflagellates Tr
											○	○	○	Spicules 2

737A 29X NO RECOVERY

737 B 1W NO RECOVERY



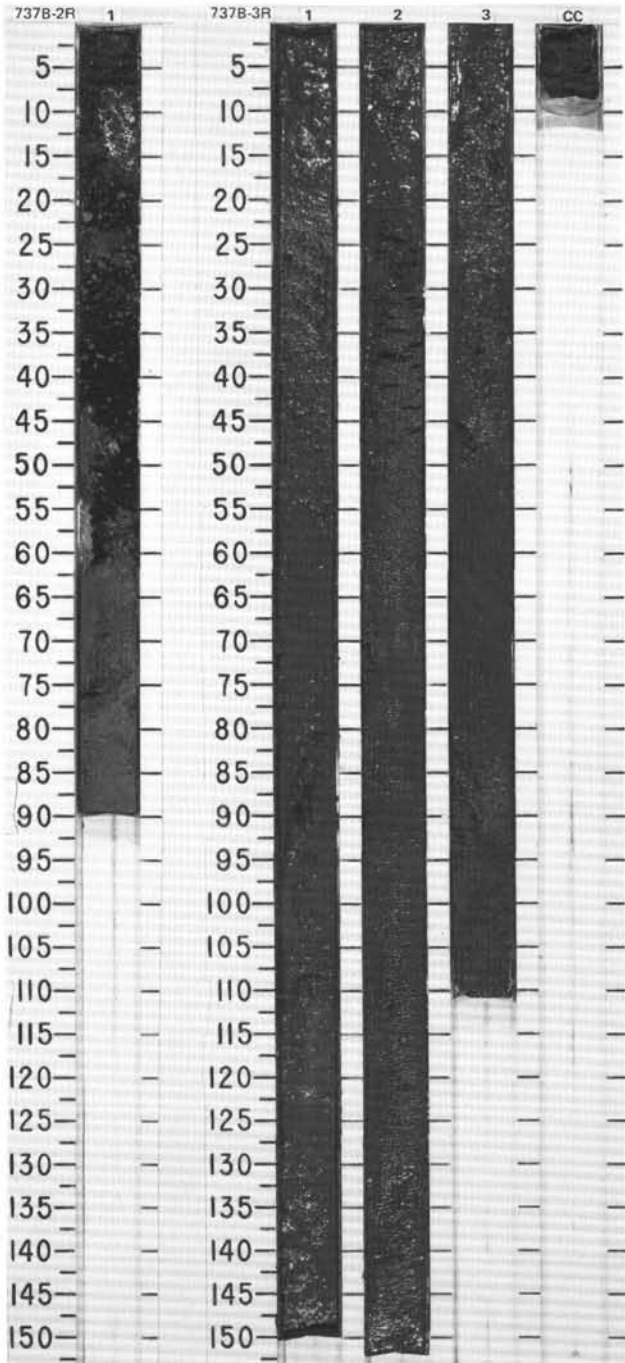
SITE 737 HOLE B CORE 2R CORED INTERVAL 114.5-124.2 mbsf

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									
UPPER MIOCENE	R/G	B	A/G NR9	A/G				1	0.5				<p>DIATOM OOZE</p> <p>Major lithology: Diatom ooze, olive gray (5Y 4/2)</p> <p>Drilling disturbance: the entire core is contaminated with down-hole cave-in material composed of black (5Y 2.5/1) basalt and olive gray (5Y 6/2) pumice sand and gravel.</p>

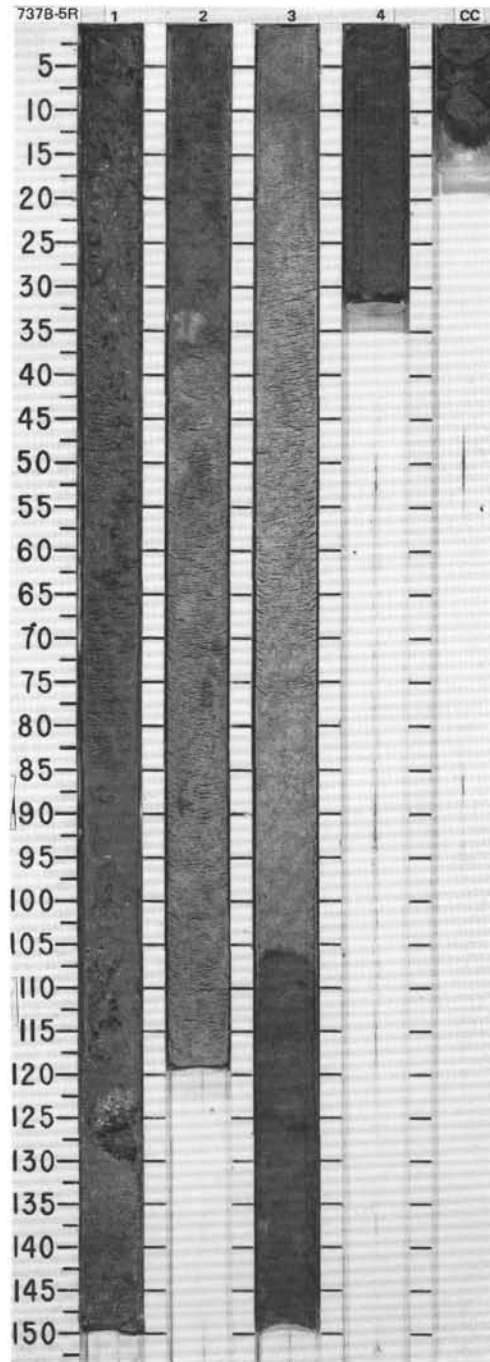
SITE 737 HOLE B CORE 3R CORED INTERVAL 124.2-133.8 mbsf

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									
UPPER MIOCENE	R/M	B	A/G NR9	A/G				1	0.5				<p>DIATOM OOZE</p> <p>Major lithology: Diatom ooze, olive (5Y 5/3) to olive gray (5Y 5/2).</p> <p>Drilling disturbance: volcanic sand and gravel mixed with diatom ooze in Section 1, 0-12 cm, and scattered basalt pebbles in Sections 2 and 3 indicate considerable downhole drilling contamination.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>2, 54 D</p> <p>TEXTURE:</p> <p>Sand 1 Silt 89 Clay 10</p> <p>COMPOSITION:</p> <p>Access. minerals 1 Diatoms 95 Feldspar 3 Oxide Tr Radiolarians Tr Silicoflagellates 1</p>

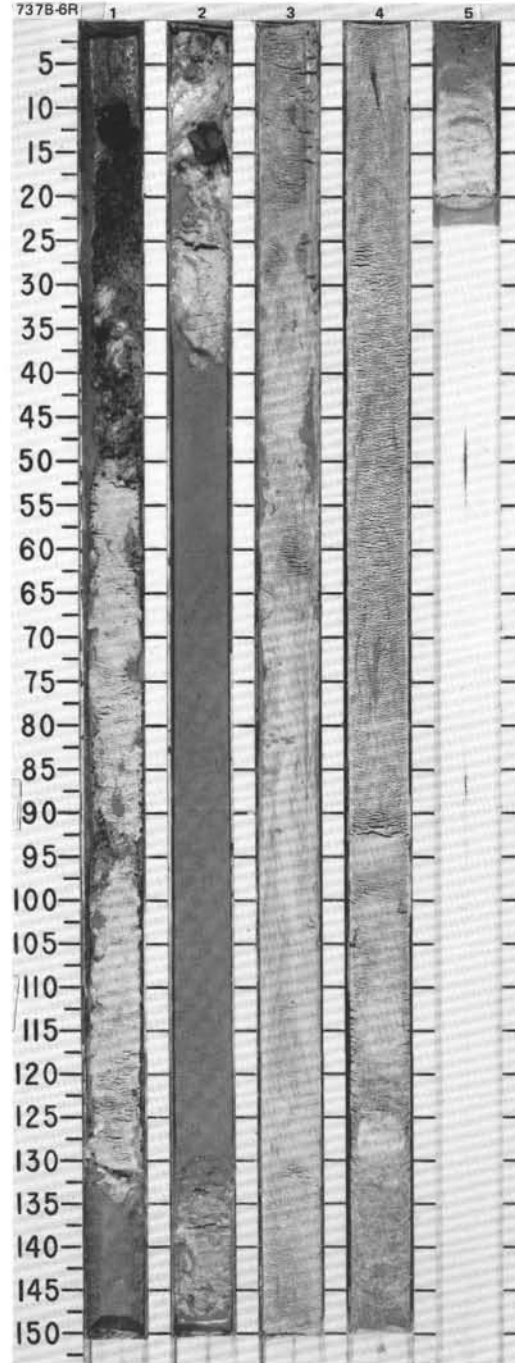
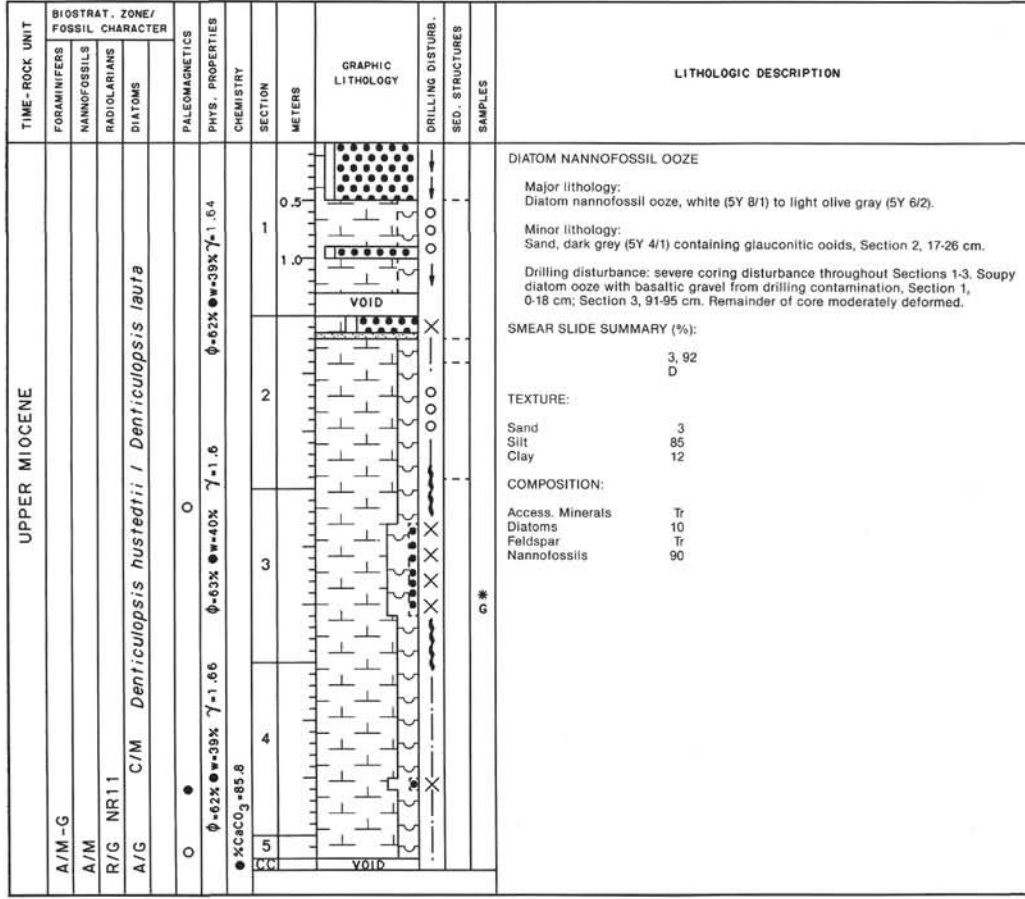
737 B 4W NO RECOVERY



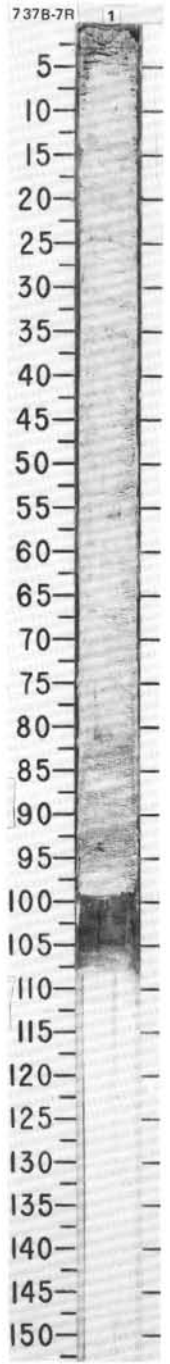
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																																																																																																																																															
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UPPER MIOCENE	R/M-G	A/M	A/G NR10	A/G				1	0.5 1.0					<p>DIATOM NANNOFOSSIL OOZE</p> <p>Major lithology: Diatom nannofossil ooze, dark greenish gray (10Y 5/2) to light greenish gray (10Y 7/1), composed of 25-40% diatoms and 60-75% nannofossils. Darker mottling (5Y 5/1) throughout core.</p> <p>Minor lithologies:</p> <p>a. Glauconitic sand, dark greenish grey (10Y 4/1) with micronodules, feldspar and collophane, Section 1, 125-128 cm.</p> <p>b. Vitric ash, very dark gray (5Y 3/1), Section 1, 128-130 cm.</p> <p>Drilling disturbance: Section 1, 0-120 cm, soupy diatom nannofossil ooze with subrounded to subangular basalt granules and pebbles due to drilling contamination.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>1, 123 D</th> <th>1, 125 M</th> <th>1, 128 D</th> <th>1, 129 D</th> <th>2, 100 D</th> <th>2, 147 D</th> </tr> </thead> <tbody> <tr> <td>TEXTURE:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Sand</td> <td>5</td> <td>—</td> <td>1</td> <td>—</td> <td>10</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>91</td> <td>—</td> <td>90</td> <td>100</td> <td>85</td> <td>85</td> </tr> <tr> <td>Clay</td> <td>4</td> <td>—</td> <td>9</td> <td>—</td> <td>5</td> <td>10</td> </tr> <tr> <td>COMPOSITION:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Access. Minerals</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Diatoms</td> <td>40</td> <td>60</td> <td>40</td> <td>1</td> <td>45</td> <td>35</td> </tr> <tr> <td>Feldspar</td> <td>—</td> <td>15</td> <td>Tr</td> <td>3</td> <td>—</td> <td>—</td> </tr> <tr> <td>Glass</td> <td>—</td> <td>5</td> <td>—</td> <td>94</td> <td>—</td> <td>—</td> </tr> <tr> <td>Glauconite</td> <td>Tr</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> <td>1</td> </tr> <tr> <td>Nannofossils</td> <td>55</td> <td>—</td> <td>60</td> <td>—</td> <td>45</td> <td>45</td> </tr> <tr> <td>Olivine</td> <td>—</td> <td>3</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Opauques</td> <td>—</td> <td>—</td> <td>—</td> <td>2</td> <td>—</td> <td>—</td> </tr> <tr> <td>Pumice</td> <td>—</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> <td>15</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Radiolarians</td> <td>1</td> <td>3</td> <td>—</td> <td>—</td> <td>5</td> <td>3</td> </tr> <tr> <td>Rock Fragment</td> <td>—</td> <td>3</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Spicules</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </tbody> </table> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>3, 98 D</th> <th>3, 106 D</th> <th>3, 126 D</th> <th>3, 130 D</th> </tr> </thead> <tbody> <tr> <td>TEXTURE:</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Sand</td> <td>3</td> <td>7</td> <td>75</td> <td>3</td> </tr> <tr> <td>Silt</td> <td>88</td> <td>85</td> <td>15</td> <td>90</td> </tr> <tr> <td>Clay</td> <td>9</td> <td>7</td> <td>10</td> <td>7</td> </tr> <tr> <td>COMPOSITION:</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Access. Minerals</td> <td>Tr</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>—</td> <td>7</td> <td>—</td> </tr> <tr> <td>Diatoms</td> <td>25</td> <td>40</td> <td>10</td> <td>40</td> </tr> <tr> <td>Feldspar</td> <td>Tr</td> <td>—</td> <td>33</td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td>—</td> <td>3</td> <td>5</td> <td>—</td> </tr> <tr> <td>Glauconite</td> <td>—</td> <td>2</td> <td>4</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>75</td> <td>10</td> <td>2</td> <td>60</td> </tr> <tr> <td>Palagonite</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Pumice</td> <td>—</td> <td>40</td> <td>33</td> <td>—</td> </tr> <tr> <td>Pyroxene</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Radiolarians</td> <td>—</td> <td>3</td> <td>3</td> <td>—</td> </tr> <tr> <td>Spicules</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> </tbody> </table>		1, 123 D	1, 125 M	1, 128 D	1, 129 D	2, 100 D	2, 147 D	TEXTURE:							Sand	5	—	1	—	10	5	Silt	91	—	90	100	85	85	Clay	4	—	9	—	5	10	COMPOSITION:							Access. Minerals	—	—	Tr	—	—	—	Diatoms	40	60	40	1	45	35	Feldspar	—	15	Tr	3	—	—	Glass	—	5	—	94	—	—	Glauconite	Tr	5	—	—	—	1	Nannofossils	55	—	60	—	45	45	Olivine	—	3	—	—	—	—	Opauques	—	—	—	2	—	—	Pumice	—	5	—	—	—	15	Quartz	—	Tr	—	—	—	—	Radiolarians	1	3	—	—	5	3	Rock Fragment	—	3	—	—	—	—	Spicules	Tr	—	—	—	—	—		3, 98 D	3, 106 D	3, 126 D	3, 130 D	TEXTURE:					Sand	3	7	75	3	Silt	88	85	15	90	Clay	9	7	10	7	COMPOSITION:					Access. Minerals	Tr	—	—	Tr	Clay	—	—	7	—	Diatoms	25	40	10	40	Feldspar	Tr	—	33	Tr	Foraminifers	—	3	5	—	Glauconite	—	2	4	—	Nannofossils	75	10	2	60	Palagonite	—	Tr	—	—	Pumice	—	40	33	—	Pyroxene	—	—	Tr	—	Radiolarians	—	3	3	—	Spicules	—	—	—	Tr
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SITE 737 HOLE B CORE 6R CORED INTERVAL 263.2-272.9 mbsf

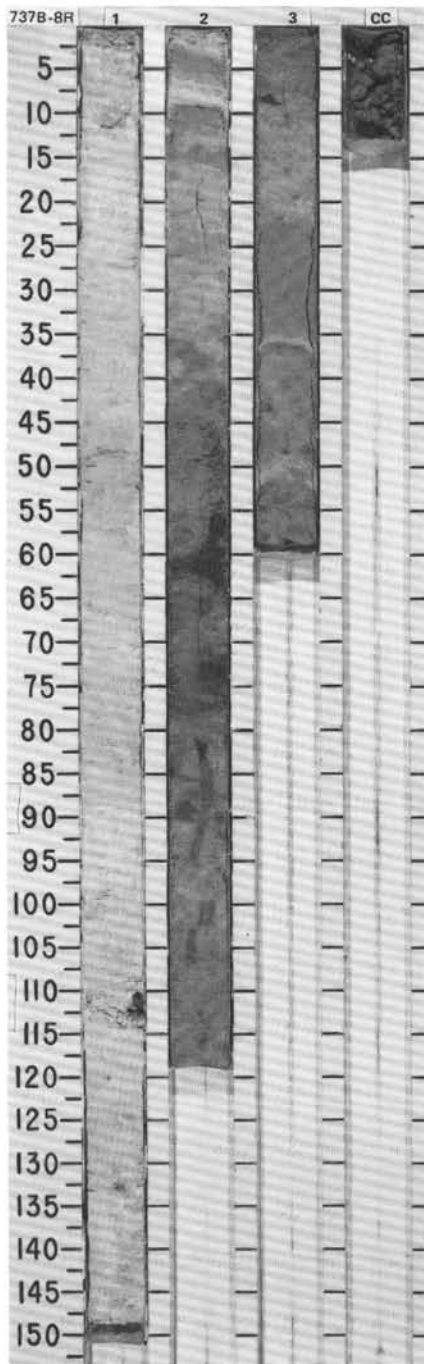


TIME - ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	MAMMOFOSBILS	RADIOLARIANS										
MIDDLE MIOCENE	F/M	A/G	R/G NR11		● O	● XCaCO ₃ =88.3	1	0.5					DIATOM NANNOFOSSIL OOZE Major lithology: Diatom nannofossil ooze, white (5Y 8/1) to light gray (5Y 7/2); pale yellow (5Y 7/3) streaks in Section 1, 82-85 cm, 92-94 cm. Drilling disturbance: entire core contaminated with basalt pebbles.

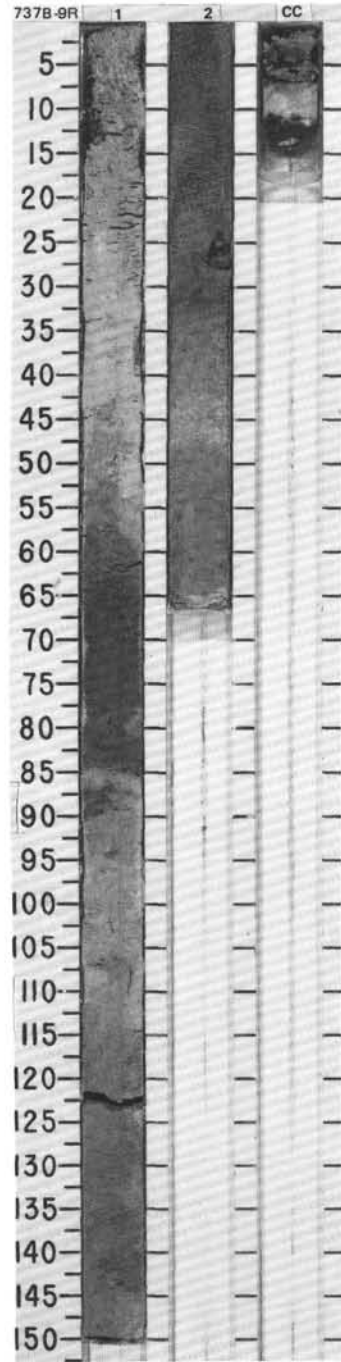


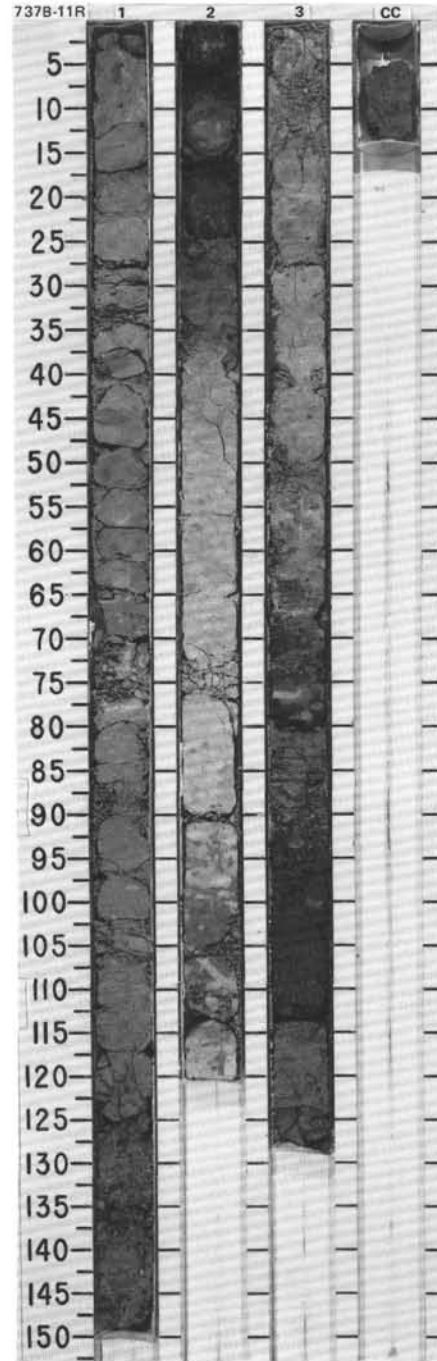
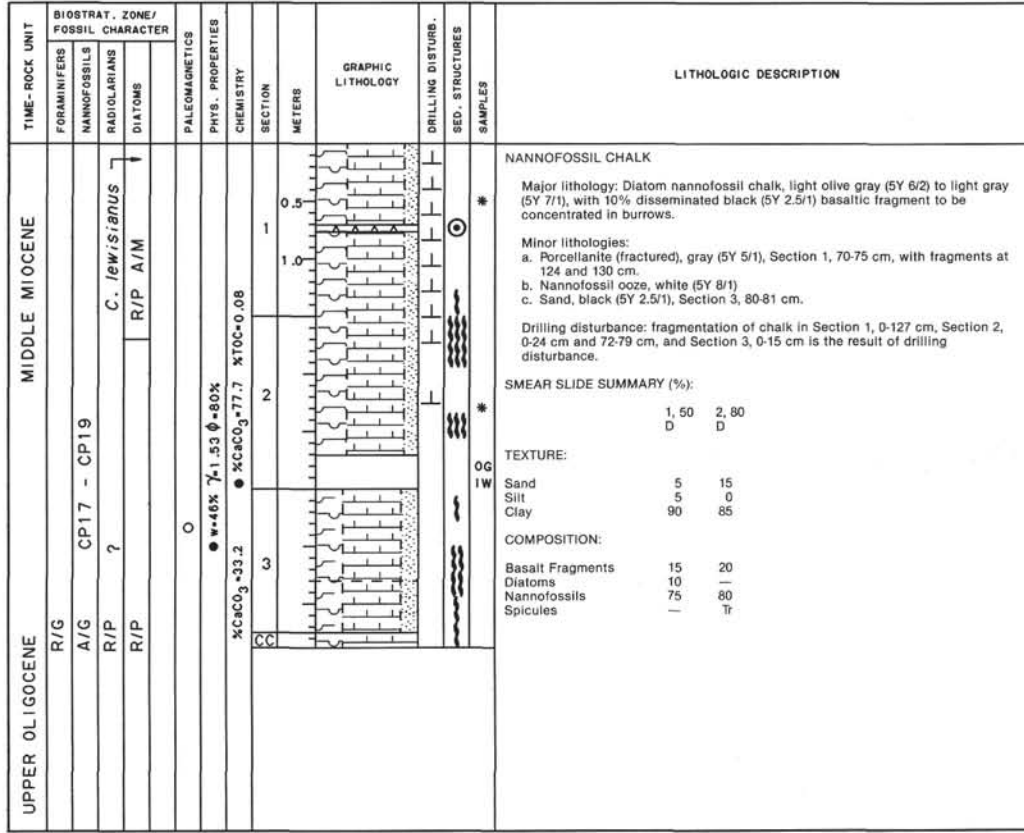
SITE 737 HOLE B CORE 8R CORED INTERVAL 282.5-292.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																																								
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MIDDLE MIOCENE	C/M	A/G	R/G NR11	A/M				1	0.5	<p><i>Nitzschia denticuloides</i></p>			<p>NANNOFOSSIL OOZE</p> <p>Major lithology: Diatom nannofossil ooze with up to 20% diatoms, discontinuously stratified on a cm-scale, ranging from white (5Y 8/1) for diatom-poor layers, through light gray (5Y 7/1) to gray (5Y 7/1, 5Y 6/1) for more diatom-rich layers. Moderate bioturbation in Section 2, 40-105 cm, indicated by slightly darker mottling, gray (5Y 5/1).</p> <p>Minor lithology: Nannofossil diatom ooze, light olive gray, Section 3, 49-51 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>1, 14 D</th> <th>1, 48 M</th> <th>2, 8 D</th> <th>2, 9 D</th> <th>2, 15 D</th> <th>2, 60 D</th> <th>2, 61 M</th> </tr> </thead> <tbody> <tr> <td>Clay</td> <td>—</td> <td>—</td> <td>2</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Diatoms</td> <td>35</td> <td>35</td> <td>40</td> <td>42</td> <td>50</td> <td>35</td> <td>35</td> </tr> <tr> <td>Feldspar</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>2</td> <td>5</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>2</td> <td>—</td> <td>—</td> </tr> <tr> <td>Glaucinite</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>3</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>55</td> <td>45</td> <td>50</td> <td>42</td> <td>42</td> <td>50</td> <td>35</td> </tr> <tr> <td>Opauques</td> <td>2</td> <td>1</td> <td>1</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Palagonite</td> <td>—</td> <td>2</td> <td>2</td> <td>Tr</td> <td>1</td> <td>1</td> <td>—</td> </tr> <tr> <td>Peloids</td> <td>—</td> <td>5</td> <td>—</td> <td>12</td> <td>—</td> <td>—</td> <td>20</td> </tr> <tr> <td>Pyroxene</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>—</td> <td>2</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Radiolarians</td> <td>5</td> <td>10</td> <td>—</td> <td>Tr</td> <td>—</td> <td>2</td> <td>5</td> </tr> <tr> <td>Silicoflagellates</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>1</td> <td>—</td> </tr> <tr> <td>Spicules</td> <td>—</td> <td>—</td> <td>—</td> <td>2</td> <td>—</td> <td>—</td> <td>—</td> </tr> </tbody> </table>		1, 14 D	1, 48 M	2, 8 D	2, 9 D	2, 15 D	2, 60 D	2, 61 M	Clay	—	—	2	—	—	—	—	Diatoms	35	35	40	42	50	35	35	Feldspar	—	—	—	—	2	5	—	Foraminifers	—	—	—	—	2	—	—	Glaucinite	—	—	—	—	—	3	—	Nannofossils	55	45	50	42	42	50	35	Opauques	2	1	1	—	—	—	—	Palagonite	—	2	2	Tr	1	1	—	Peloids	—	5	—	12	—	—	20	Pyroxene	—	—	Tr	—	—	Tr	—	Quartz	—	—	2	—	—	—	—	Radiolarians	5	10	—	Tr	—	2	5	Silicoflagellates	—	—	—	—	—	1	—	Spicules	—	—	—	2	—	—	—
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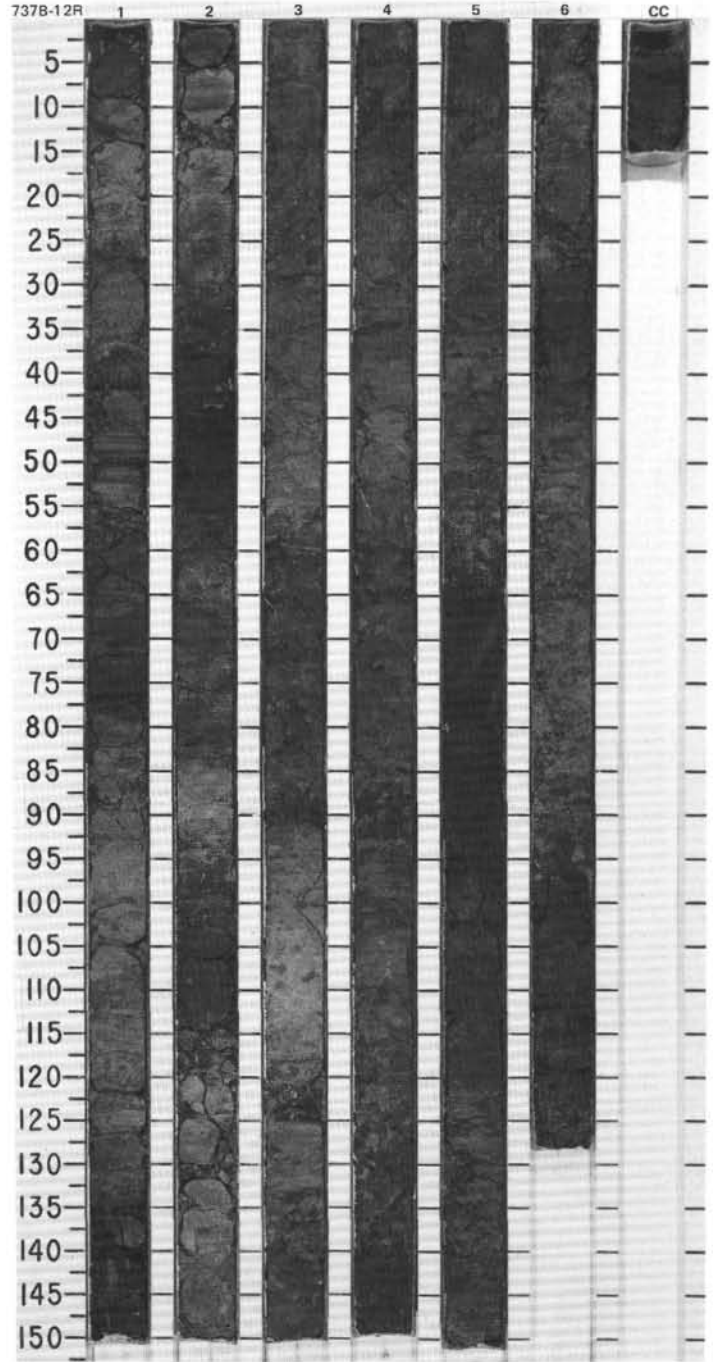
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																								
	FORAMINIFERS	NANNOFOSSILS	RADIOLIARIANS	DIATOMS																																																		
MIDDLE MIOCENE	R/G	A/G	C/G NR11	F/M				1	0.5					<p>NANNOFOSSIL OOZE</p> <p>Major lithologies: Alternating on a decimeter-scale are the following:</p> <p>Diatom nannofossil ooze with 10% diatoms, white (5Y 8/1), Section 1, 20-50 mm; CC, 0-13 cm. Discontinuous stratification on a cm-scale. Diatom nannofossil ooze, with 30-50% diatoms, olive gray (5Y 5/2), gray (5Y 6/1, 5Y 5/1). Discontinuous stratification on a cm-scale.</p> <p>Drilling disturbance: white nannofossil ooze with 10% diatoms soupy in Section 1, 10-20 cm, and the presence of 1 mm diameter pebbles and granules (basaltic with the ooze are the result of drilling disturbance).</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>1, 30 D</th> <th>1, 70 M</th> <th>1, 130 D</th> </tr> </thead> <tbody> <tr> <td>Sand</td> <td>5</td> <td>10</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>60</td> <td>20</td> <td>80</td> </tr> <tr> <td>Clay</td> <td>35</td> <td>70</td> <td>15</td> </tr> </tbody> </table> <p>TEXTURE:</p> <p>COMPOSITION:</p> <table border="1"> <thead> <tr> <th></th> <th>Tr</th> <th>Tr</th> <th>Tr</th> </tr> </thead> <tbody> <tr> <td>Access. minerals</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>20</td> <td>10</td> </tr> <tr> <td>Diatoms</td> <td>10</td> <td>50</td> <td>30</td> </tr> <tr> <td>Nannofossils</td> <td>90</td> <td>30</td> <td>60</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> </tbody> </table>		1, 30 D	1, 70 M	1, 130 D	Sand	5	10	5	Silt	60	20	80	Clay	35	70	15		Tr	Tr	Tr	Access. minerals	Tr	Tr	Tr	Clay	—	20	10	Diatoms	10	50	30	Nannofossils	90	30	60	Radiolarians	Tr	—	—
	1, 30 D	1, 70 M	1, 130 D																																																			
Sand	5	10	5																																																			
Silt	60	20	80																																																			
Clay	35	70	15																																																			
	Tr	Tr	Tr																																																			
Access. minerals	Tr	Tr	Tr																																																			
Clay	—	20	10																																																			
Diatoms	10	50	30																																																			
Nannofossils	90	30	60																																																			
Radiolarians	Tr	—	—																																																			
						<p>● w=58% γ=1.39 φ=74%</p> <p>● %CaCO₃ =76.6</p> <p>● CC</p>	2	1.0																																														



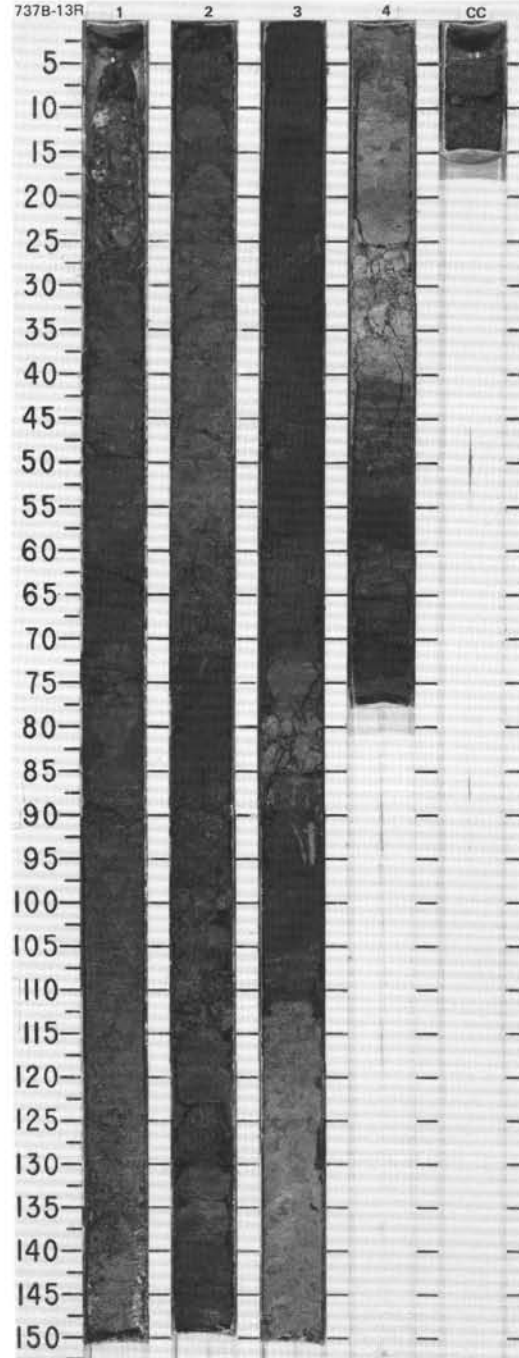


SITE 737 HOLE B CORE 12R CORED INTERVAL 321.1-330.8 mbsf

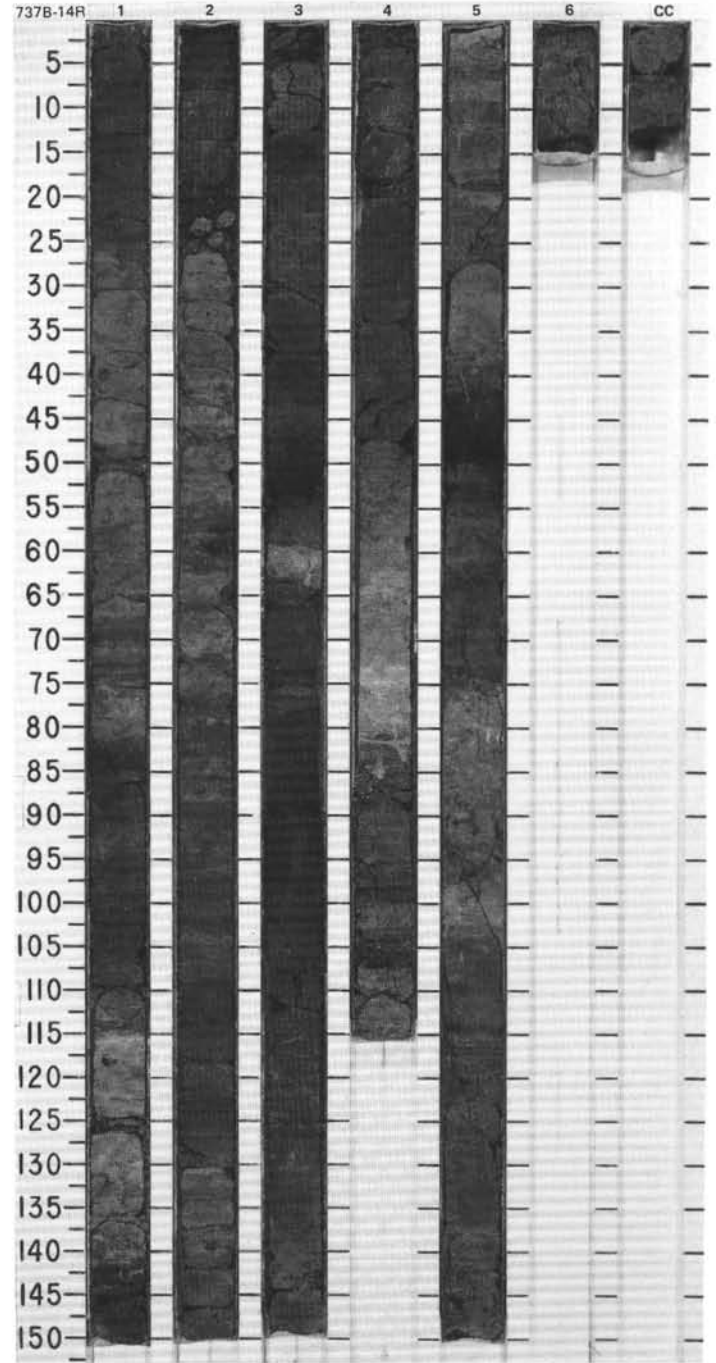
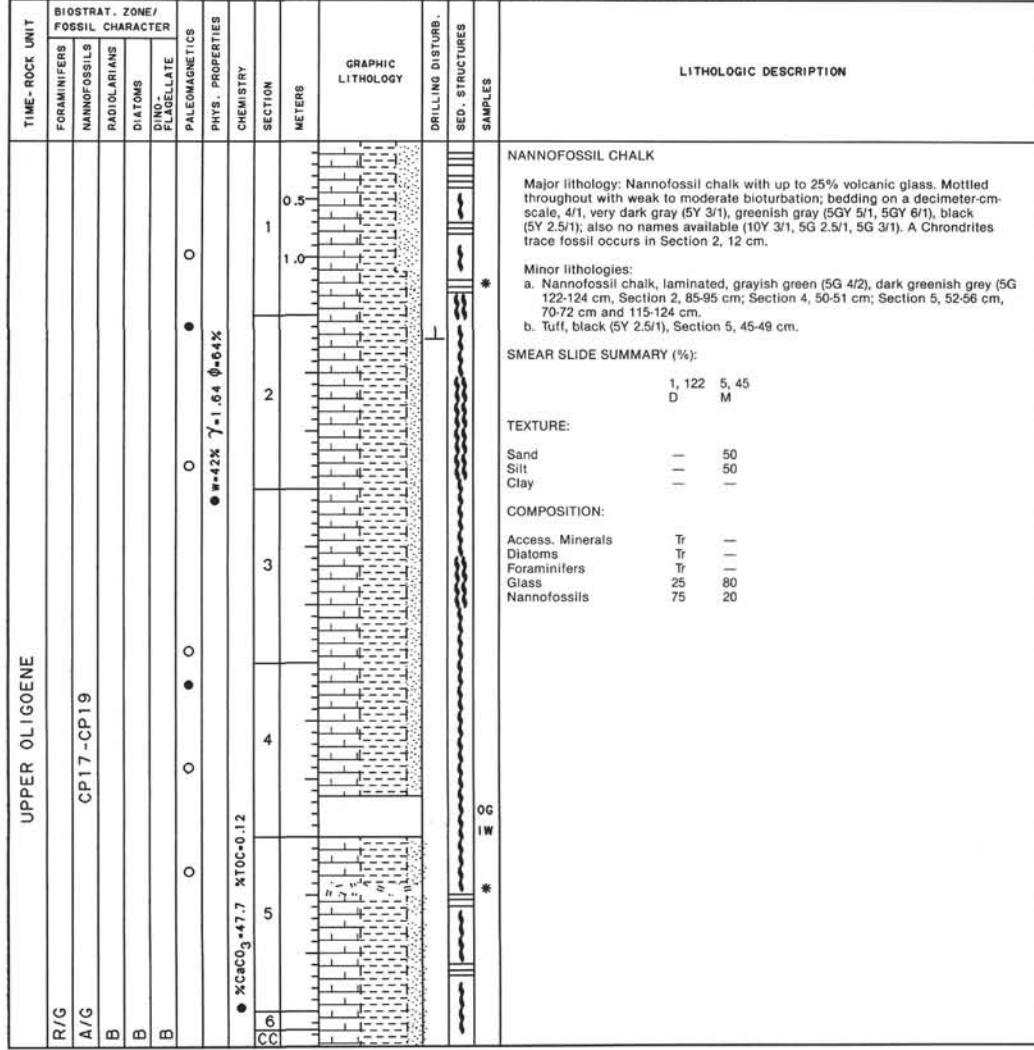
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																														
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																								
UPPER OLILOCENE	R/G													<p>NANNOFOSSIL CHALK</p> <p>Major lithology: Nannofossil chalk, mainly diatom-free, gray (5Y 6/1, 5Y 5/1, 5GY 4/1), greenish gray (5G 5/1, 5GY 6/1) grayish green (5G 4/2) and dark greenish gray (5G 4/1). Decimeter-scale bedding of alternating colors. Most of cm, and strongly bioturbated in Section 5, 55-64 cm.</p> <p>Minor lithology: Laminated nannofossil chalk, with alternating laminae of grayish green (5G 5/2) and pale green (5G 5/2), occurs in Section 1, 48-56 cm, and Section 2, 9-14 and 128-132 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 51</td> <td>1, 95</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>2</td> <td>2</td> </tr> <tr> <td>Silt</td> <td>88</td> <td>88</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>10</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Basalt Fragments</td> <td>4</td> <td>4</td> </tr> <tr> <td>Clay</td> <td>5</td> <td>5</td> </tr> <tr> <td>Diatoms</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Glass</td> <td>1</td> <td>1</td> </tr> <tr> <td>Nannofossils</td> <td>90</td> <td>90</td> </tr> </table>		1, 51	1, 95	D	D	D	Sand	2	2	Silt	88	88	Clay	10	10	Basalt Fragments	4	4	Clay	5	5	Diatoms	—	Tr	Glass	1	1	Nannofossils	90	90
	1, 51	1, 95																																										
D	D	D																																										
Sand	2	2																																										
Silt	88	88																																										
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Basalt Fragments	4	4																																										
Clay	5	5																																										
Diatoms	—	Tr																																										
Glass	1	1																																										
Nannofossils	90	90																																										
	A/G	CP17-CP19			• w=55% γ_{+1} .49 ϕ =77%		1	0.5																																				
	R/P	?			•		2	1.0																																				
	F/M	? <i>Bogorovia veniamini</i>	? <i>Rocella gelida</i>		• w=55% γ_{+1} .47 ϕ =76%		3																																					
					•		4																																					
					•		5																																					
					•		6																																					
					•	XCaCO ₃ =20.7	CC																																					

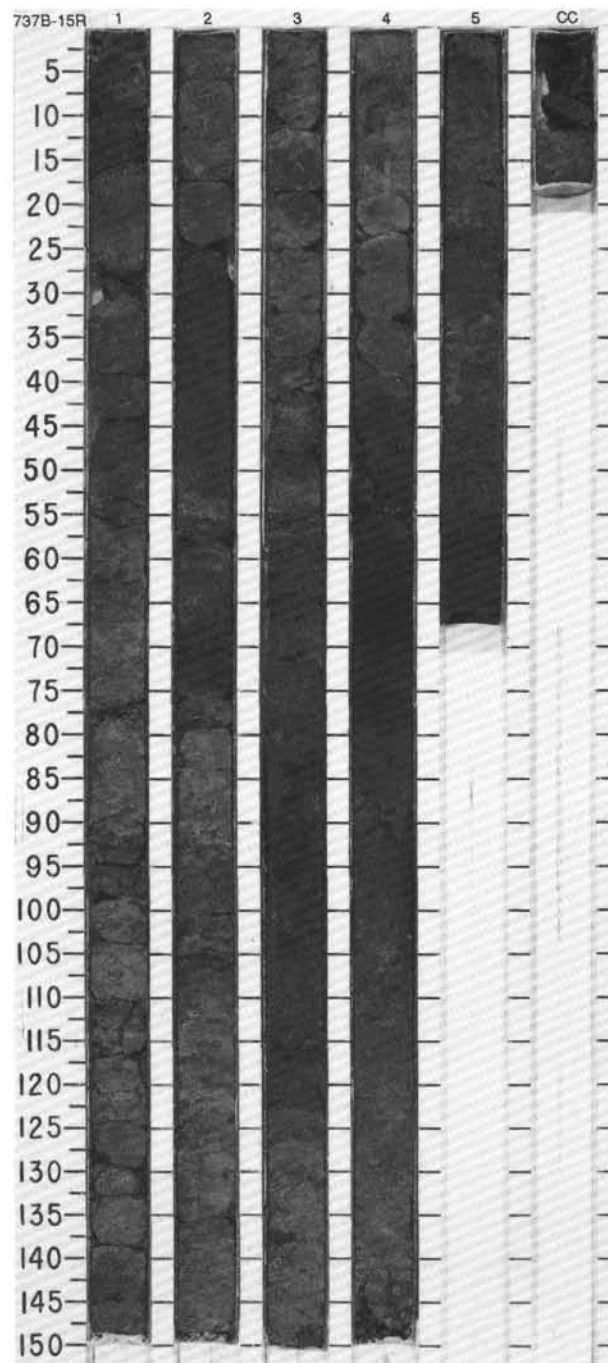
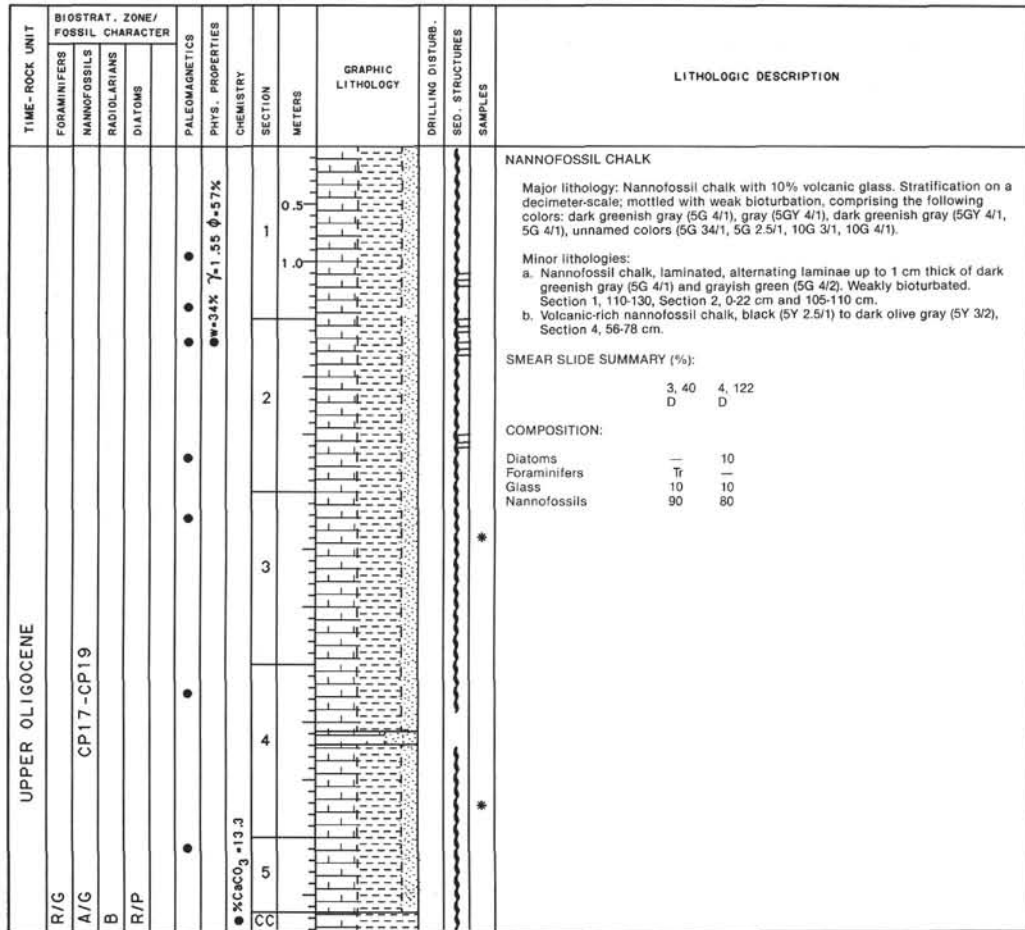


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SEPT. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																															
		FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										DINOF FLAGELLATE	PHYS. PROPERTIES																																													
UPPER OLIIGOCENE		R/G	CP17 -CP19	?		●	●	1	0.5	[Pattern]	[Wavy]	[Symbol]	<p>NANNOFOSSIL CHALK</p> <p>Major lithology: Nannofossil chalk with 10% volcanic glass, dark greenish gray (5G 4/1), greenish gray (5G 5/1, 5GY 5/1), dark gray (5Y 4/1), gray (5Y 5/1, 5GY 6/1). No clear bedding in Section 1, 30-145 cm; thereafter bedding on decimeter-scale involving above colors. Bioturbation common.</p> <p>Minor lithologies:</p> <ol style="list-style-type: none"> Nannofossil chalk, hard, black (5Y 2.5/1) to dark gray (5Y 4/1), 5/23), Section 3, 109-112 cm. Nannofossil chalk, laminated, grayish green (5G 2.5/1), Section 2, 143-145 cm. <p>Drilling disturbance: in Section 1, 0-30 cm this is indicated by mixed gravel-sized chalk pieces, gray (5GY 5/1) and soft chalk.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 110</td> <td>3, 25</td> <td>3, 134</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Silt</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>—</td> <td>—</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. Minerals</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>5</td> <td>2</td> <td>2</td> </tr> <tr> <td>Diatoms</td> <td>—</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Glass</td> <td>10</td> <td>10</td> <td>10</td> </tr> <tr> <td>Nannofossils</td> <td>84</td> <td>88</td> <td>88</td> </tr> <tr> <td>Opauques</td> <td>1</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Spicules</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> </table>		1, 110	3, 25	3, 134	D	D	D	D	Sand	—	—	—	Silt	—	—	—	Clay	—	—	—	Access. Minerals	Tr	—	—	Clay	5	2	2	Diatoms	—	Tr	Tr	Glass	10	10	10	Nannofossils	84	88	88	Opauques	1	Tr	Tr	Spicules	—	Tr	—
														1, 110	3, 25	3, 134																																													
D	D	D	D																																																										
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Opauques	1	Tr	Tr																																																										
Spicules	—	Tr	—																																																										
A/G							2	1.0	[Pattern]	[Wavy]	[Symbol]																																																		
R/P							3	[Pattern]	[Wavy]	[Symbol]																																																			
B							4	[Pattern]	[Wavy]	[Symbol]																																																			
B							CC																																																						

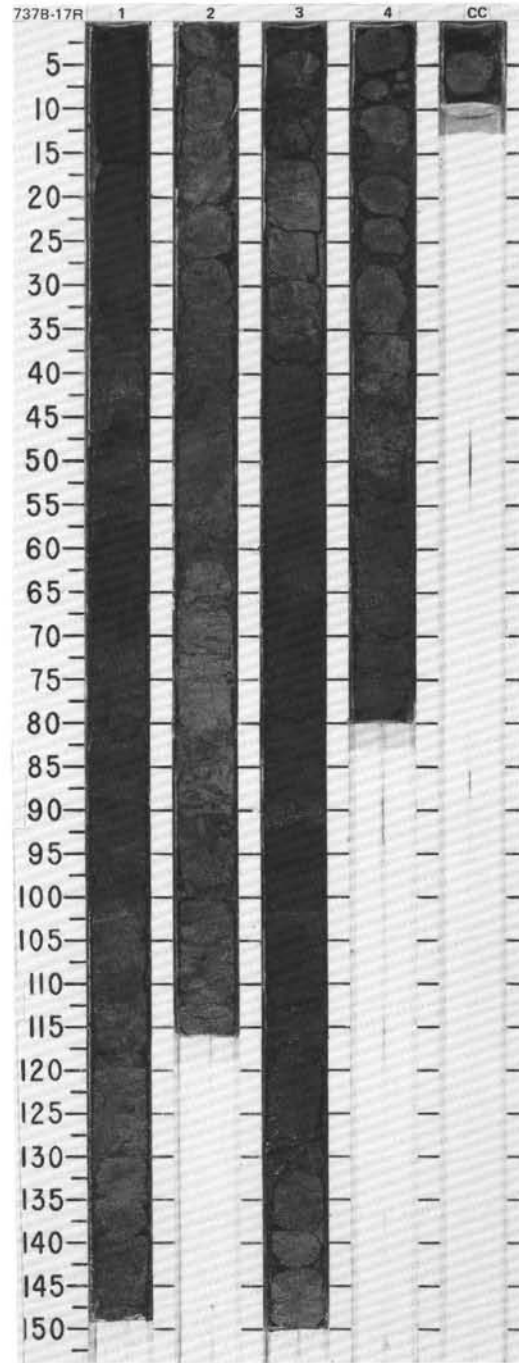


SITE 737 HOLE B CORE 14R CORED INTERVAL 340.4-350.1 mbsf





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																																							
UPPER OLIGOCENE	R/G	A/G	B	R/P					0.5 1.0				<p>NANNOFOSSIL CHALK</p> <p>Major lithology: Nannofossil chalk with 10% volcanic glass. Stratified on a decimeter-scale, bioturbation developed up to a moderate degree, giving rise to the following color alternations and mottling: dark gray (5Y 4/1, 5GY 4/1), very dark gray (5Y 3/1), grayish green (5G 4/2), greenish gray (5GY 6/1), dark greenish gray (5G 4/1), pale green (5G 5/2), gray (5GY 5/1), black (5Y 2.5/1), unnamed (10G 4/1). A pocket of volcanic glass is black (5Y 2.5/1).</p> <p>Minor lithology: Nannofossil chalk, laminated grayish green (5G 4/2) and dark gray (5GY 4/1), Section 3, 15-16 cm, 77-78 cm and 90-92 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2.75</td> <td>3.13</td> </tr> <tr> <td>D</td> <td></td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>—</td> <td>—</td> </tr> <tr> <td>Silt</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>—</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Diatoms</td> <td>5</td> <td>5</td> </tr> <tr> <td>Glass</td> <td>10</td> <td>15</td> </tr> <tr> <td>Nannofossils</td> <td>85</td> <td>75</td> </tr> <tr> <td>Palagonite</td> <td>—</td> <td>5</td> </tr> <tr> <td>Spicules</td> <td>Tr</td> <td>Tr</td> </tr> </table>		2.75	3.13	D		M	Sand	—	—	Silt	—	—	Clay	—	—	Diatoms	5	5	Glass	10	15	Nannofossils	85	75	Palagonite	—	5	Spicules	Tr	Tr
	2.75	3.13																																									
D		M																																									
Sand	—	—																																									
Silt	—	—																																									
Clay	—	—																																									
Diatoms	5	5																																									
Glass	10	15																																									
Nannofossils	85	75																																									
Palagonite	—	5																																									
Spicules	Tr	Tr																																									
	CP17-CP19				• $w=33\%$ $\gamma=1.83$ $\phi=0.87\%$	• $\%CaCO_3=32.9$			2																																		
					• $\%CaCO_3=21.7$				3																																		
									4																																		

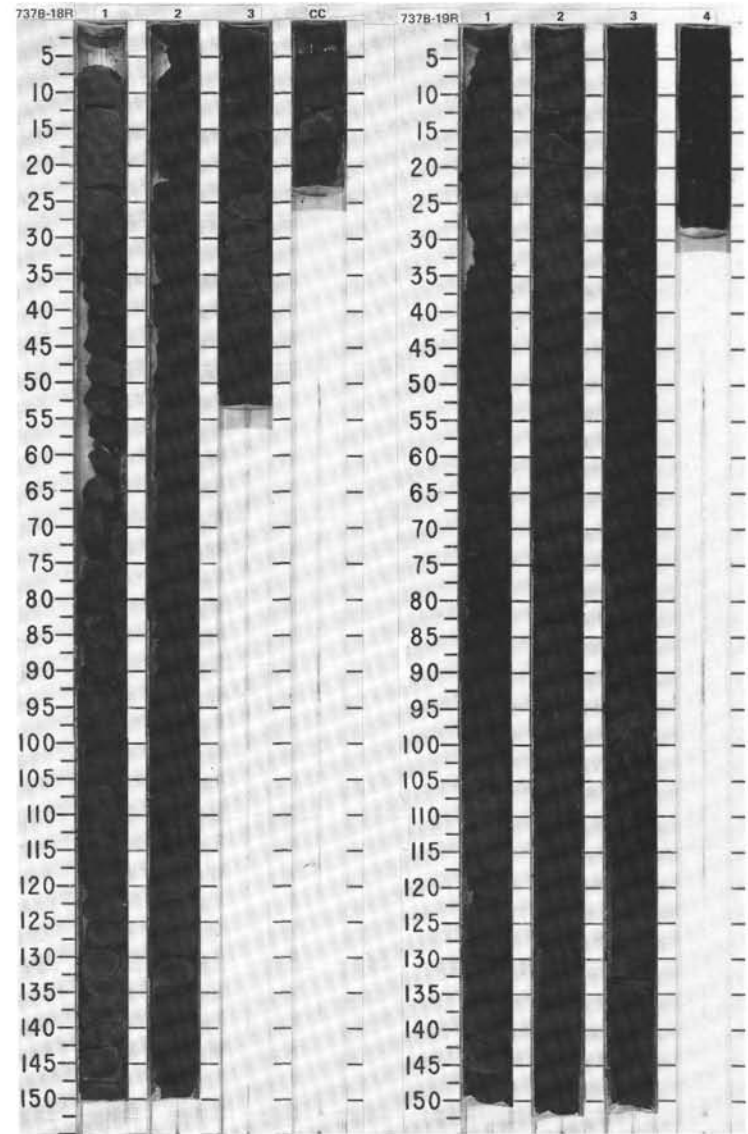


SITE 737 HOLE B CORE 18R CORED INTERVAL 379.1-388.7 mbsf

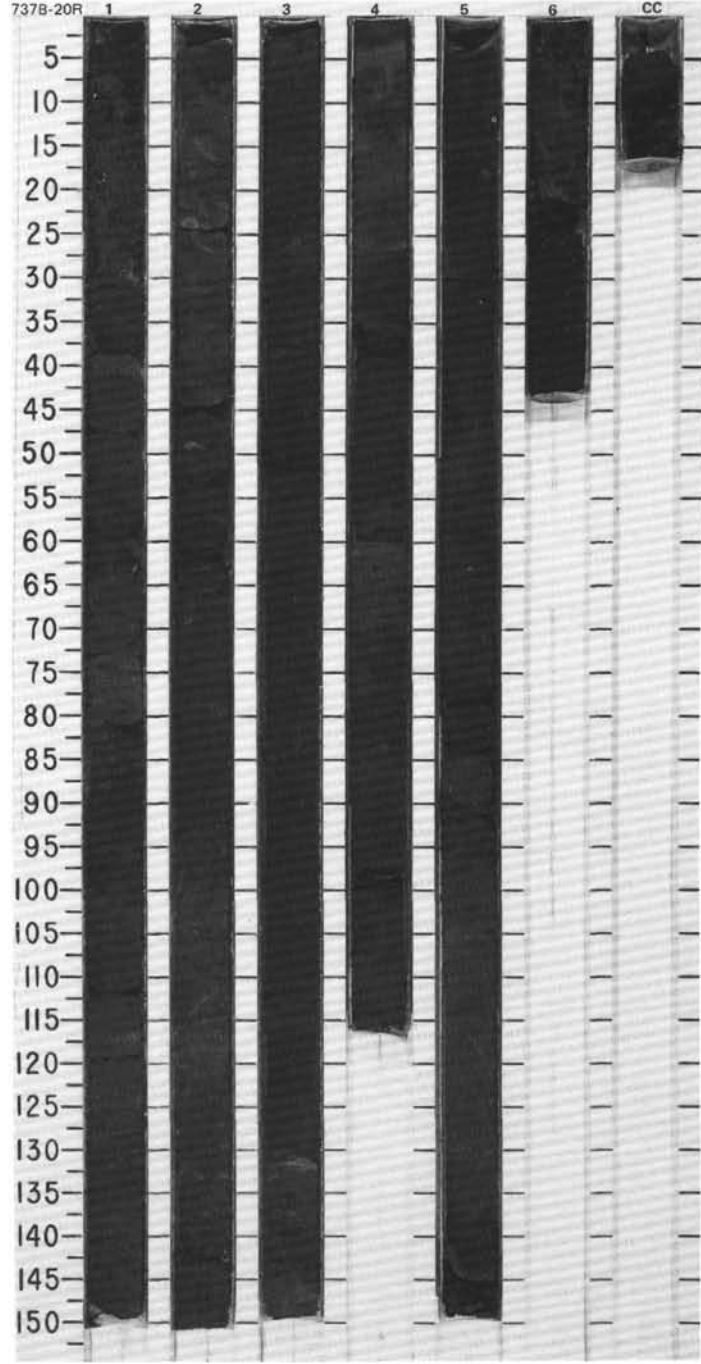
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
LOWER OLIGOCENE	P21a	CP17-CP19			●●●	●w=41% $\gamma=1.70$ $\phi=64\%$	●%CaCO ₃ =7.7	1	0.5 1.0				NANNOFOSSIL CHALK Major lithology: Nannofossil chalk with up to 30% volcanic glass. Decimeter-scale stratification and weak bioturbation give rise to the following color alternations: gray (5GY 5/1), dark gray (5GY 4/1), very dark gray (5Y 3/1) and black (5Y 2.5/1). Minor lithology: Nannofossil chalk, laminated, grayish green (5G 4/2) and gray (5Y 5/1). SMEAR SLIDE SUMMARY (%): D 2, 50 D * COMPOSITION: Glass 30 Nannofossils 70
R/M								2		VOID			
C/G								3					
B								CC					
R/P													

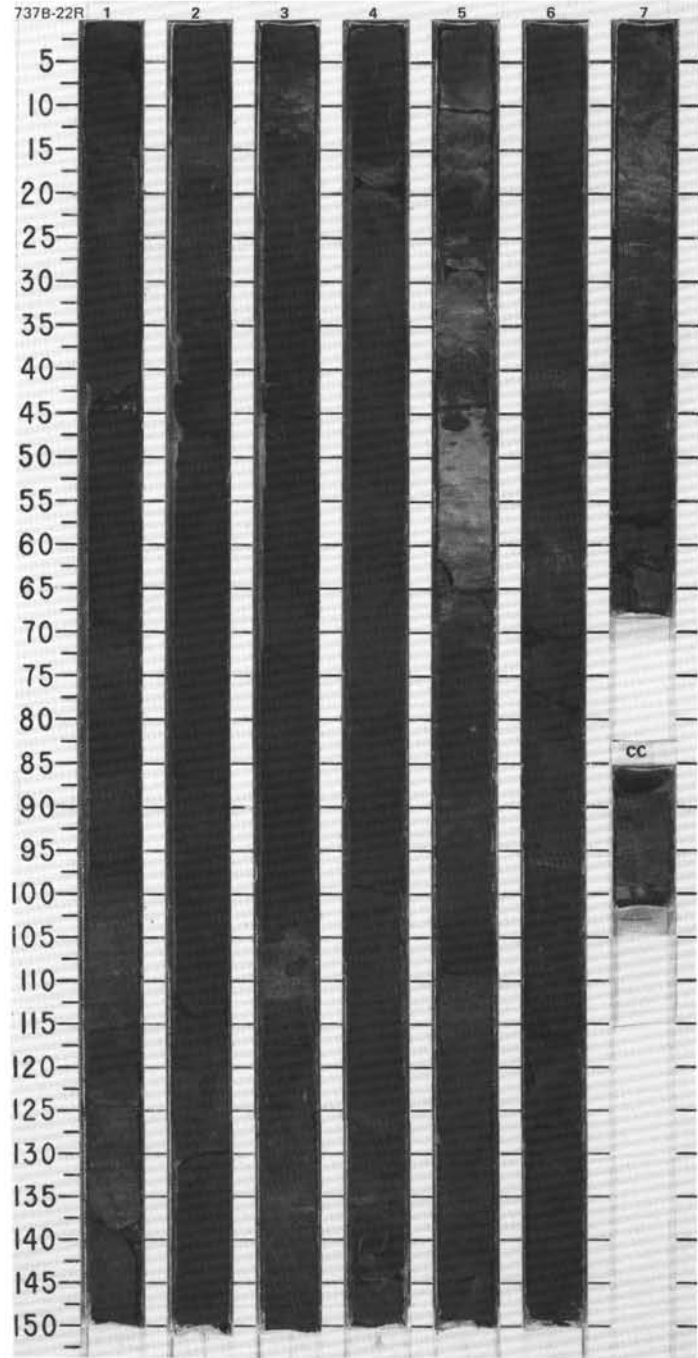
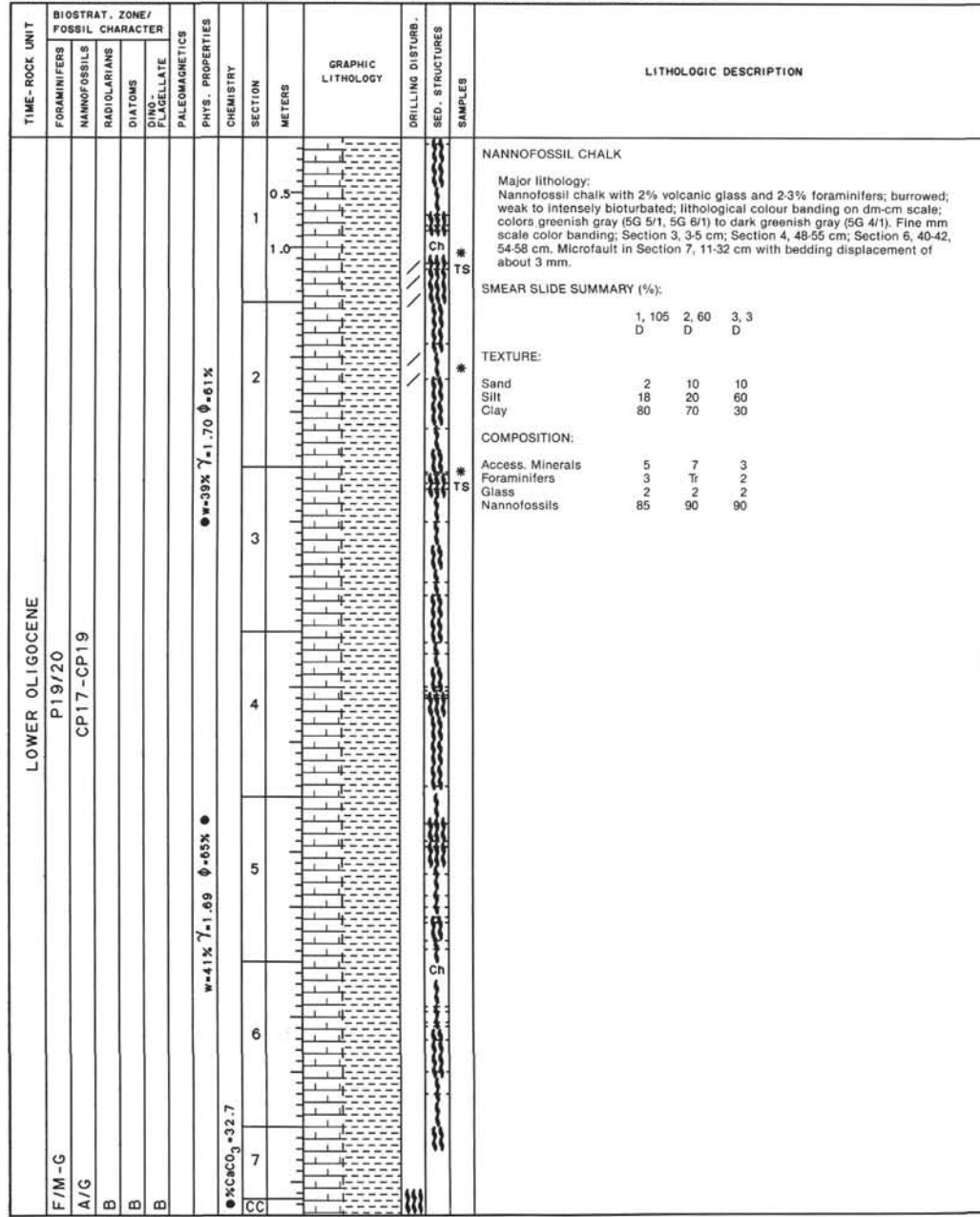
SITE 737 HOLE B CORE 19R CORED INTERVAL 388.7-398.4 mbsf

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									
LOWER OLIGOCENE	P21a	CP17-CP19				●w=41% $\gamma=1.60$ $\phi=59\%$	●%CaCO ₃ =17.4	1	0.5 1.0				NANNOFOSSIL CHALK Major lithology: Nannofossil chalk with up to 10% volcanic glass; mottled, burrowed and weakly to moderately bioturbated. Colors variable from dark greenish gray (5G 4/1) to black (5Y 2.5/1). Lithological banding on dm-cm scale in above colors. Chondrites trace fossils in Section 1 and 2; Zoophycos traces in Section 1. Drilling disturbance: Section 1, 3-24 cm, rounded quartz pebbles and angular rock fragments due to drilling contamination; core shows moderate to intense fracturing. SMEAR SLIDE SUMMARY (%): D 1, 20 D 1, 100 D 2, 54 D 3, 24 D 3, 39 D 3, 100 D TEXTURE: Sand 3 - - - - - Silt 88 - - - - - Clay 9 - - - - - COMPOSITION: Access. Minerals - 3 3 - - - Diatoms Tr - - - - - Feldspar 1 - - 3 - - Foraminifers 4 - - - Tr - Glass 4 2 Tr 2 10 Tr Nannofossils 90 90 95 90 90 80 Palagonite Tr - - 5 - 10
F/M								2					
A/G								3					
B								4					
B								CC					



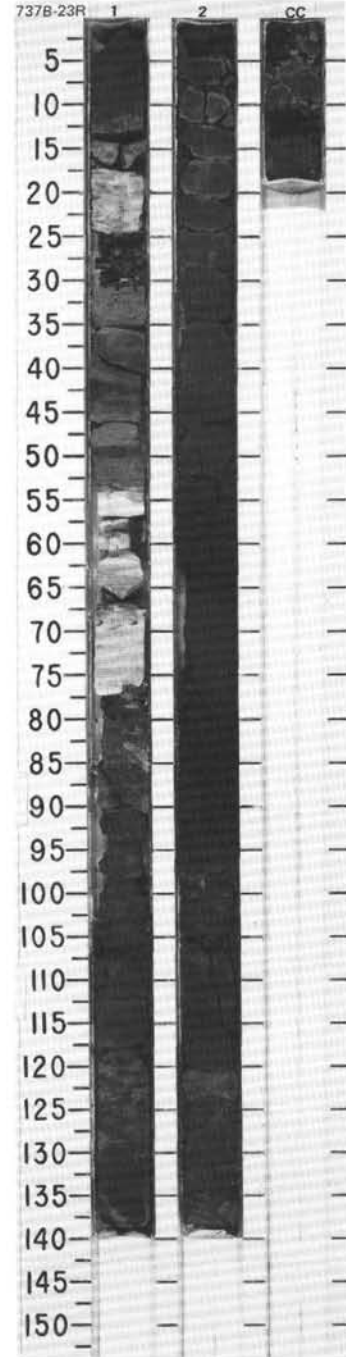
TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
LOWER OLIGOCENE												
R/M	P21a											
A/G	CP17-CP19											
B												
B												
				● w=40% $\gamma = 1.07 \phi = 85\%$								
				● w=43% $\gamma = 1.86 \phi = 65\%$								
				● %CaCO ₃ = 6.3 %TOC = 0.05								
				● %CaCO ₃ = 10.0								
CC												

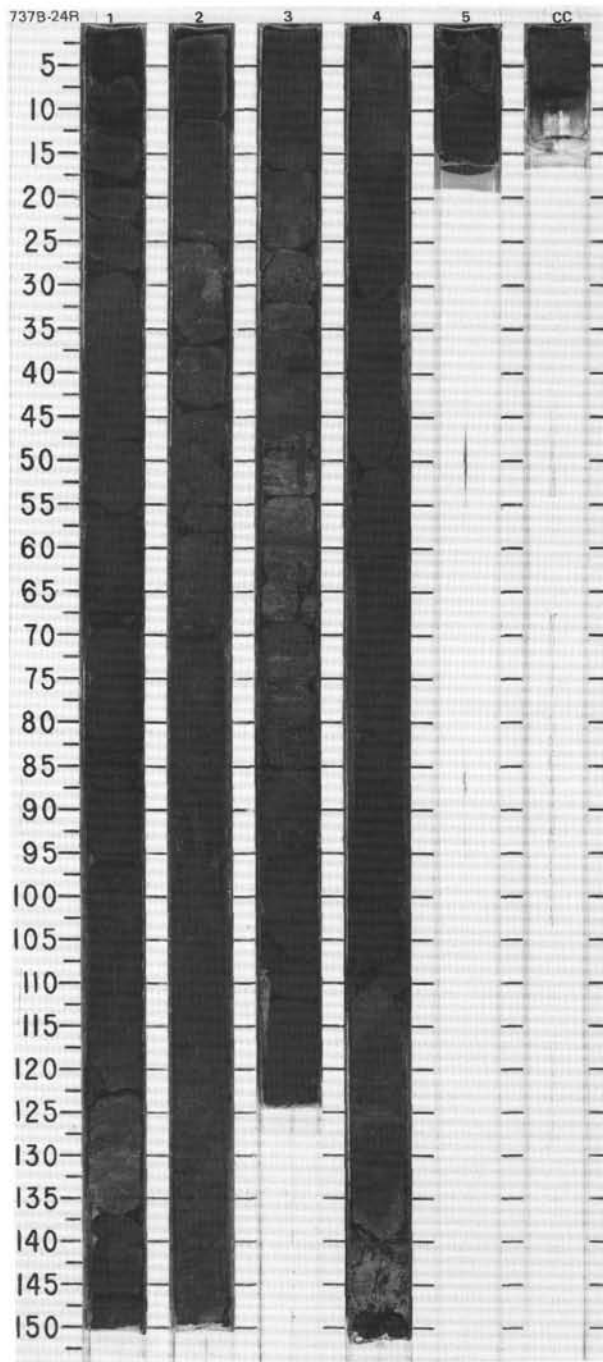
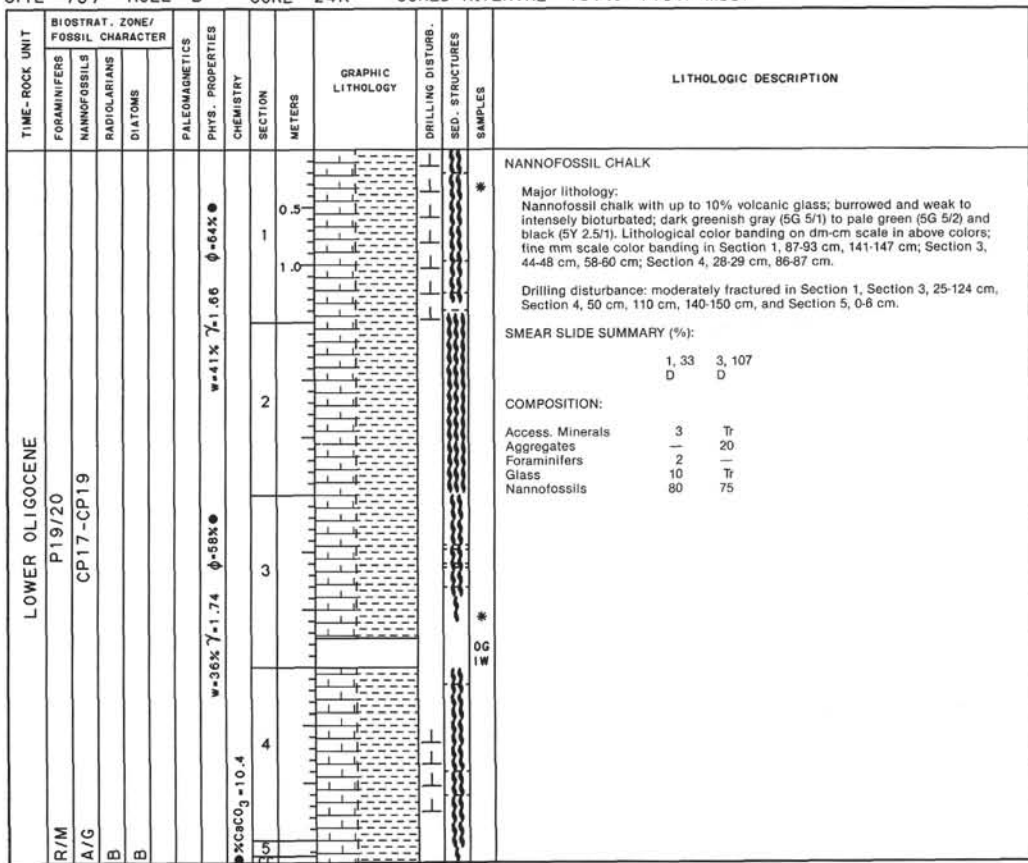




SITE 737 HOLE B CORE 23R CORED INTERVAL 427.4-437.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS										
LOWER OLILOCENE												
R/M	P19/20											NANNOFOSSIL CHALK Major lithology: Nannofossil chalk, white (5Y 8/1) to dark gray (5Y 4/1) and black (5Y 2.5/1). Lithological color banding on dm scale in Section 1; core burrowed and weak to moderately bioturbated. Drilling disturbance: entire core moderately fractured and disturbed.
C/M	CP17-CP19			$w=32\%$ $\phi=1.80$ $\rho=2.63$ $K100=0.00$		1					SMEAR SLIDE SUMMARY (%): 1, 55 D 2, 13 D	
B				$w=37\%$ $\phi=1.75$ $\rho=17.9$		2	VOID					
B								VOID				
						CC						

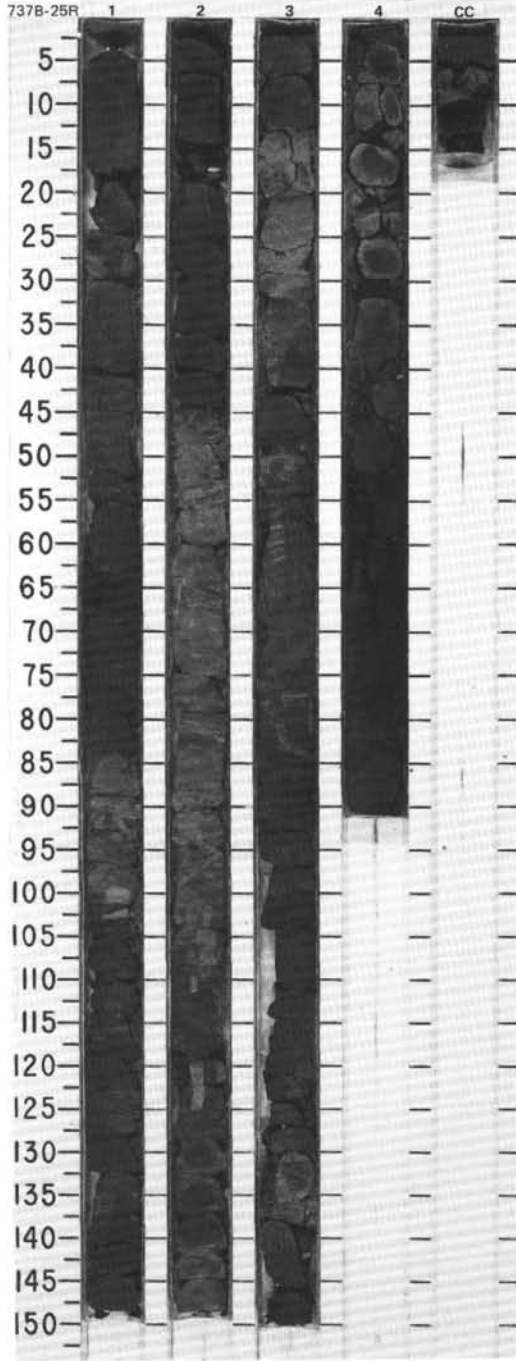




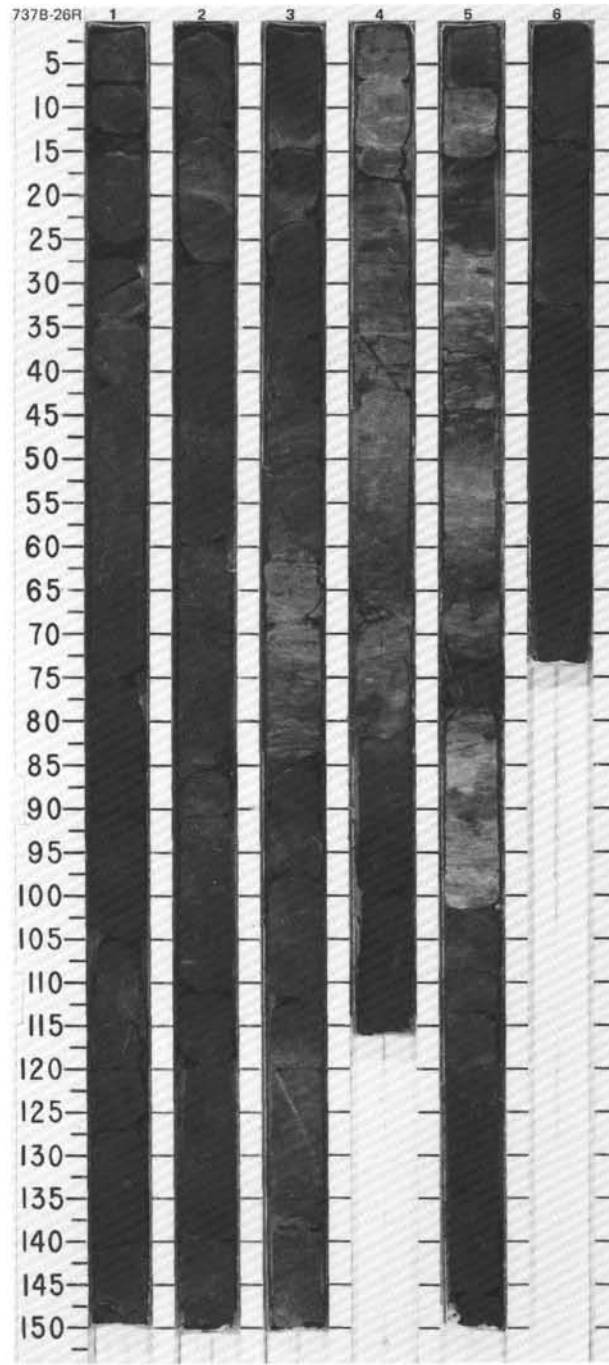
SITE 737 HOLE B CORE 25R CORED INTERVAL 446.7-456.4 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER					SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
R/M	A/G	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS							
LOWER OLIGOCENE												
	P19/20											
	CPT17-CPT19											
B												
B												
B												
		w=38% $\gamma=1.75$ $\phi=63\%$ ●										
		● %CaCO ₃ =17.7										
		w=37% $\gamma=1.75$ $\phi=62\%$ ●										
		CC										

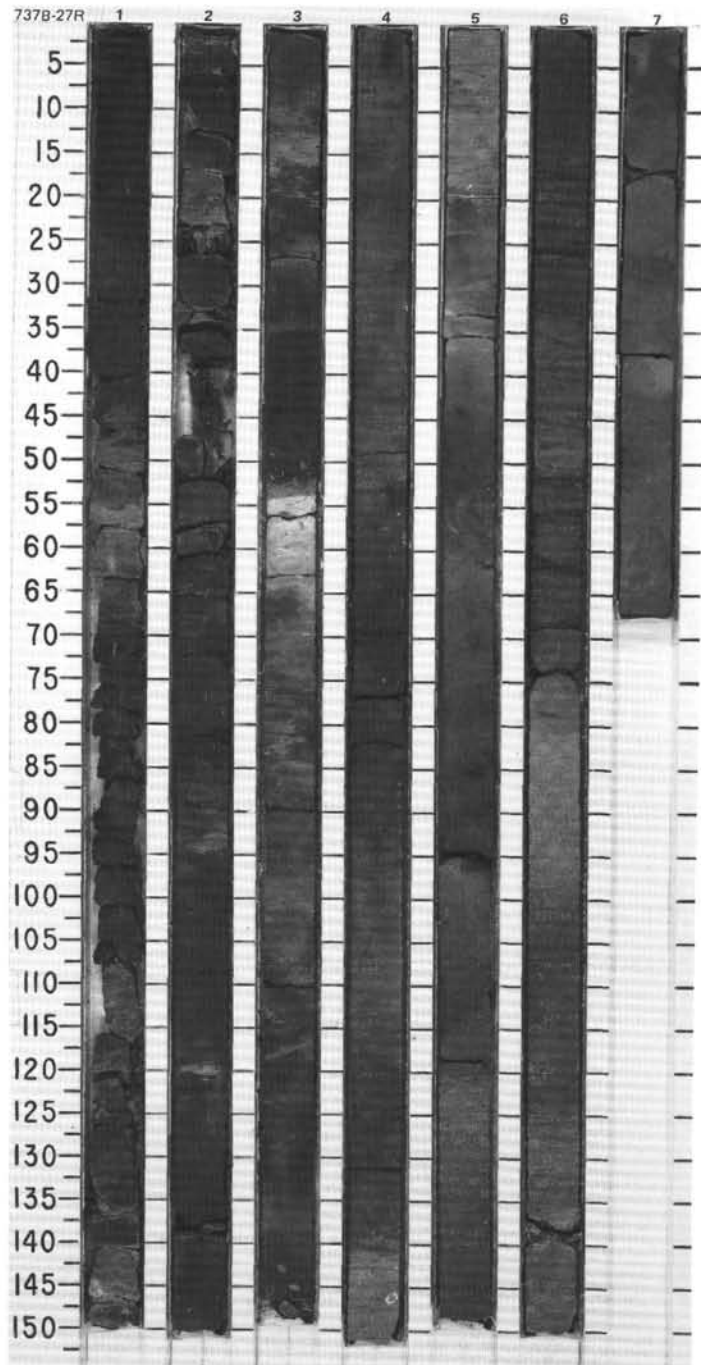
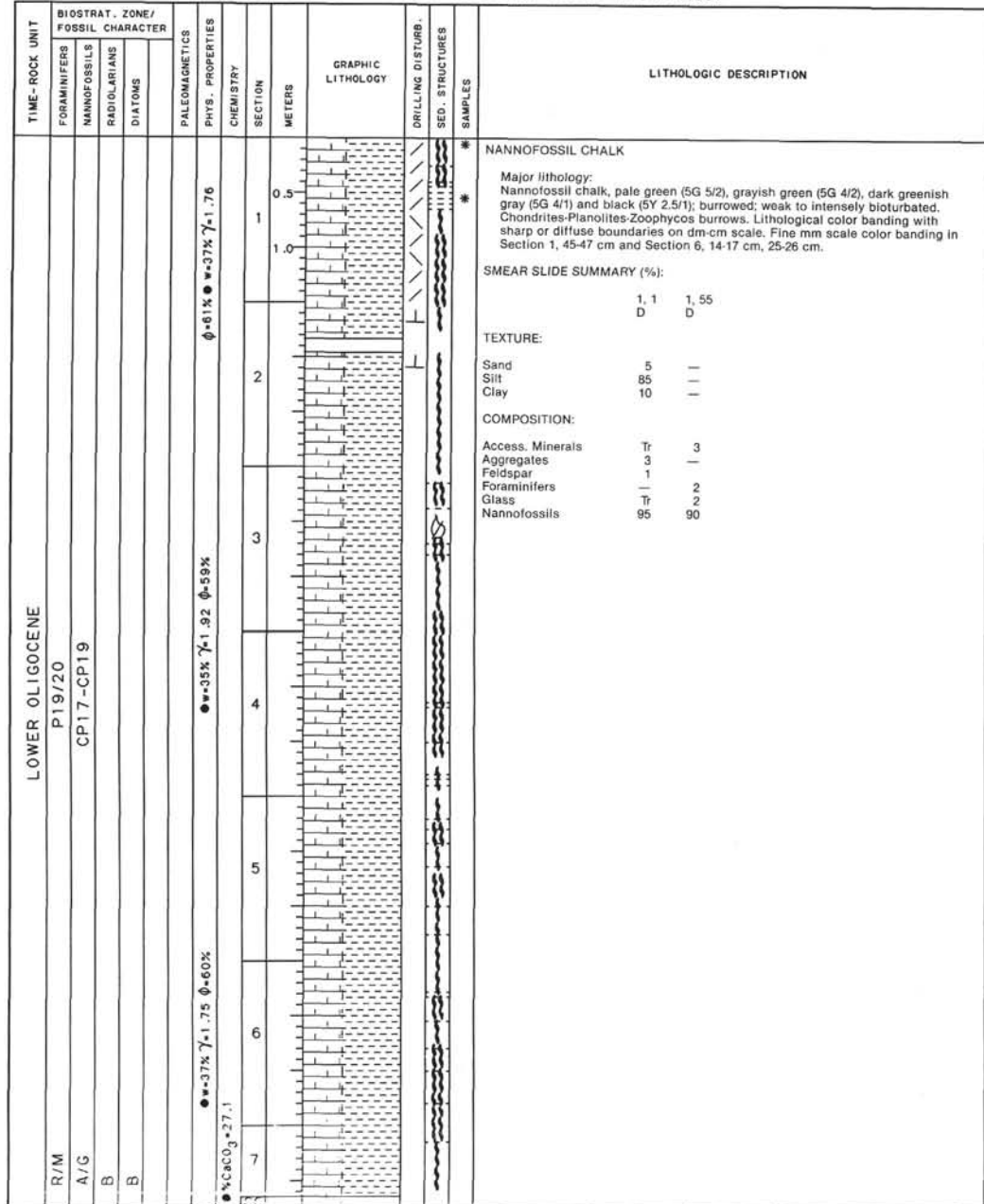
NANNOFOSSIL CHALK
 Major lithology:
 Nannofossil chalk, dusky green to green black (5G 4/1, 5G 5/1, 10GY 2.5/1, 5G 5/2, 5G 3/2, 5G 2.5/1, 5G 4/2); mostly strongly bioturbated with lithological color banding on a scale of 50-100 cm.



TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS		PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																											
LOWER OLIGOCENE	R/M P19/20 A/G B B	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	w=34% γ -1.76 ϕ -57%																																			
						w=34% γ -1.76 ϕ -57%			1	0.5				<p>NANNOFOSSIL CHALK</p> <p>Major lithology: Nannofossil chalk, pale green (5G 5/1), dark grayish green (5G 4/2) to black (5Y 2.5/1), with lithological color banding on a scale of 5 cm to 1 m. Entire core bioturbated; burrow structures dominated by Zoophycos-Chondrites-Planolites trace fossil assemblage. Post depositional brittle fracture in Section 4, 36-42 cm.</p> <p>Drilling disturbance: Sections 1 and 2 slightly disturbed; Section 3 moderately disturbed.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>2, 50</td> <td>4, 40</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>—</td> <td>3</td> </tr> <tr> <td>Silt</td> <td>—</td> <td>87</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>10</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Access. Minerals</td> <td>3</td> <td>Tr</td> </tr> <tr> <td>Aggregates</td> <td>—</td> <td>7</td> </tr> <tr> <td>Glass</td> <td>3</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>90</td> <td>90</td> </tr> </table>		2, 50	4, 40	D		D	Sand	—	3	Silt	—	87	Clay	—	10	Access. Minerals	3	Tr	Aggregates	—	7	Glass	3	Tr	Nannofossils	90	90
	2, 50	4, 40																																							
D		D																																							
Sand	—	3																																							
Silt	—	87																																							
Clay	—	10																																							
Access. Minerals	3	Tr																																							
Aggregates	—	7																																							
Glass	3	Tr																																							
Nannofossils	90	90																																							
						w=33% γ -1.83 ϕ -55%			2	1.0																															
						w=32% γ -1.86 ϕ -55%			3																																
						w=32% γ -1.86 ϕ -55%			4																																
						w=32% γ -1.86 ϕ -55%			5																																
						w=32% γ -1.86 ϕ -55%			6																																

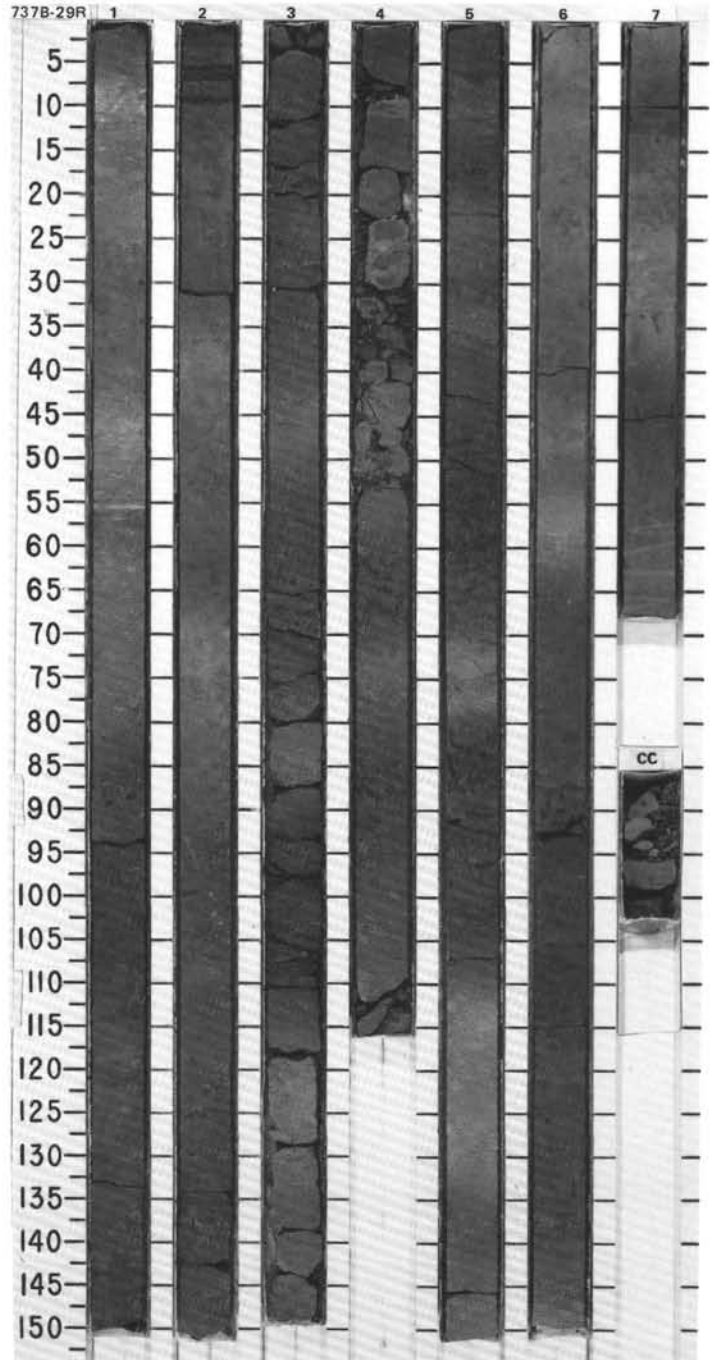


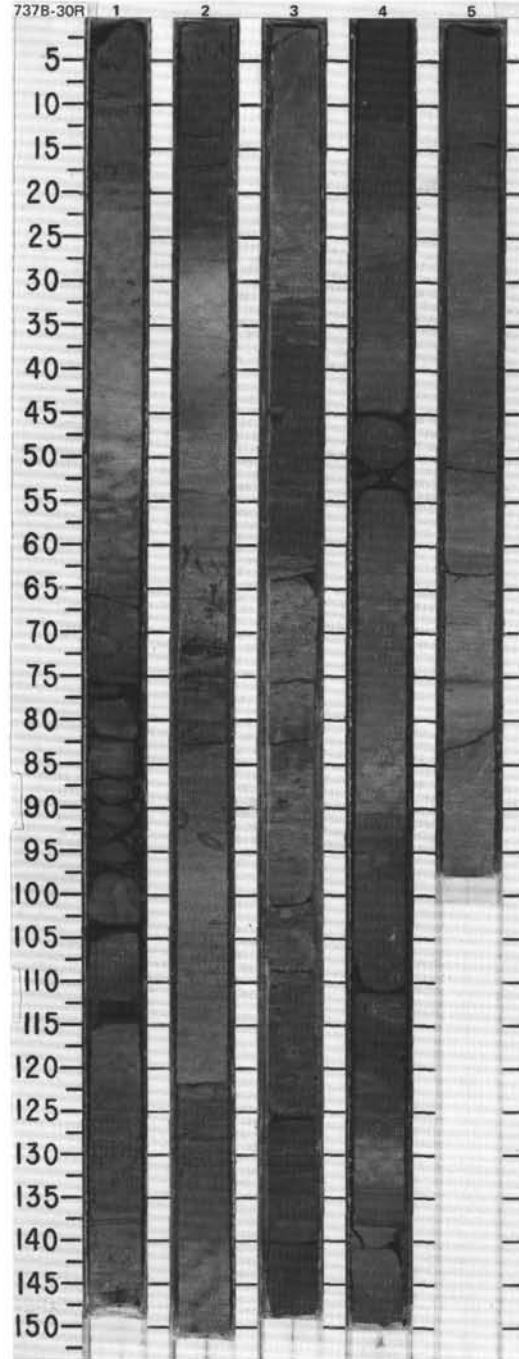
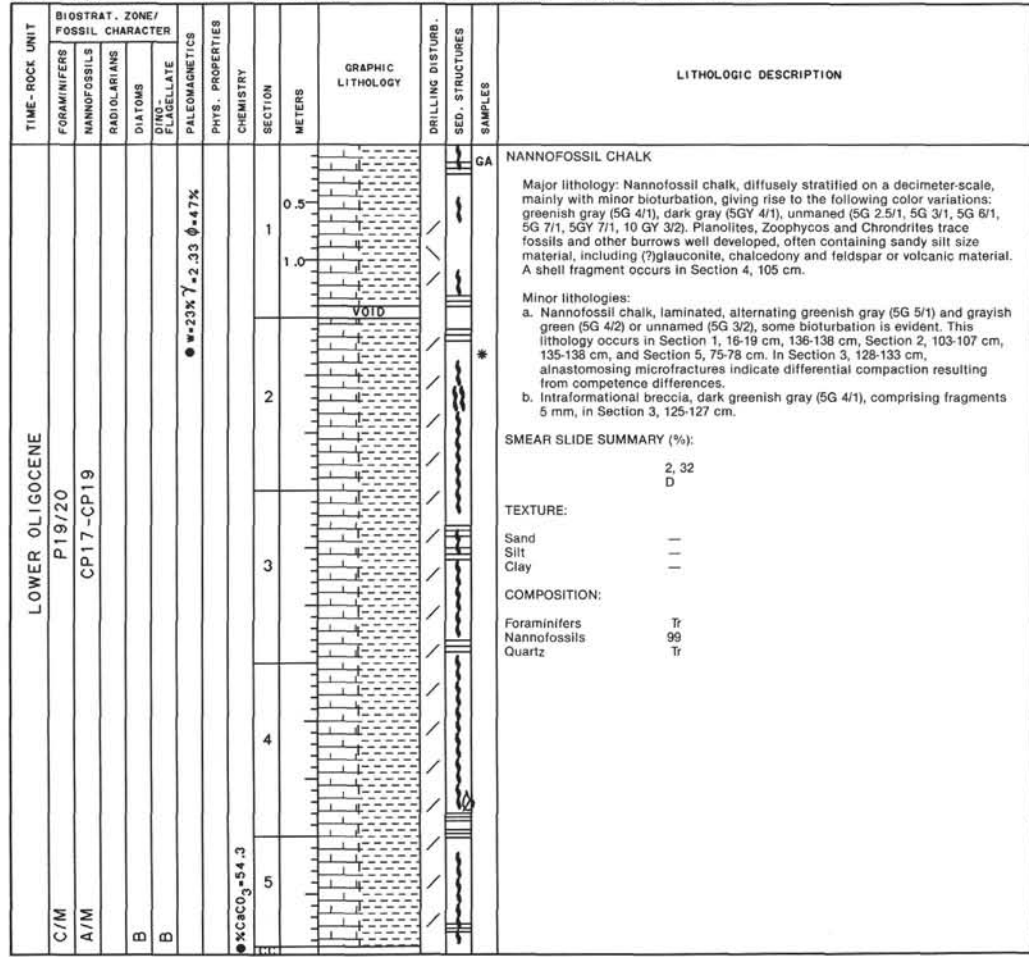
SITE 737 HOLE B CORE 27R CORED INTERVAL 466.0-475.7 mbsf



SITE 737 HOLE B CORE 29R CORED INTERVAL 485.4 -495.0 mbsf

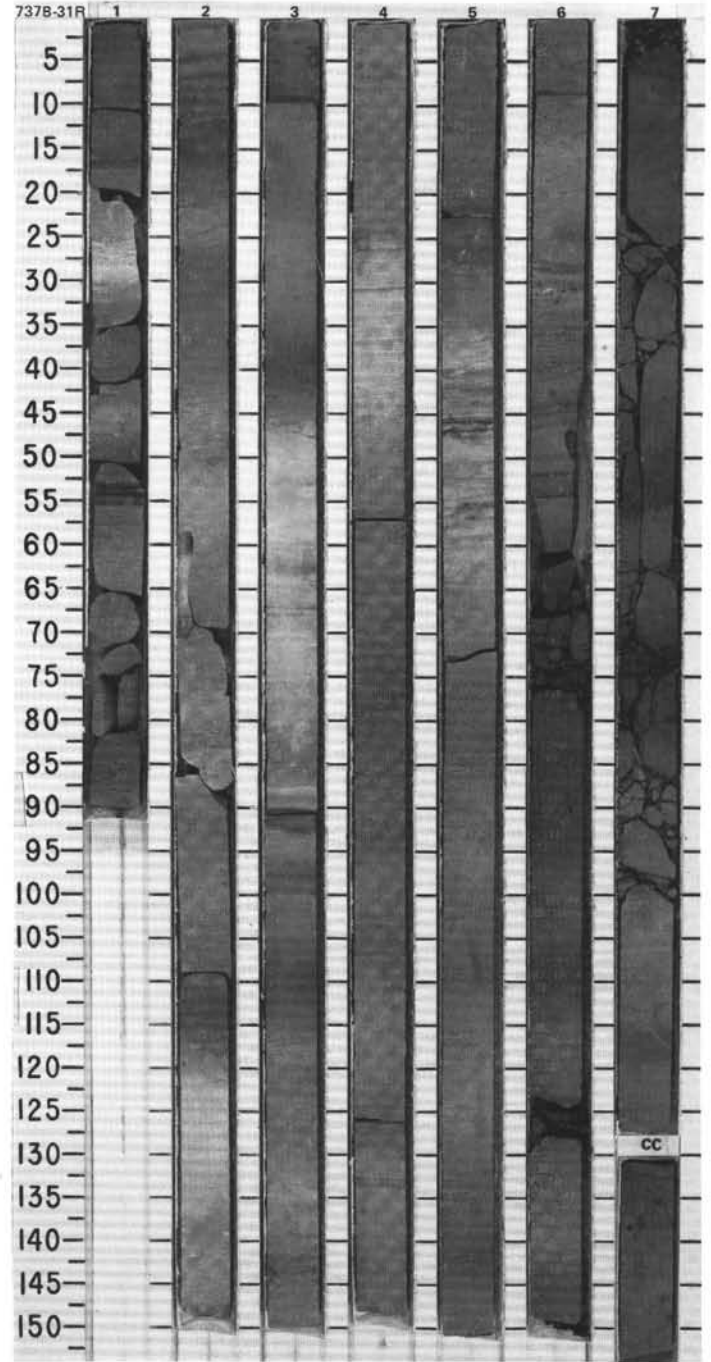
TIME-ROCK UNIT			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
BIOSTRAT. ZONE/ FOSSIL CHARACTER		FORAMINIFERS									
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS									
LOWER OLIGOCENE											
F/M	P19/20	CP17-CP19									
C/M											
B											
B											
			<ul style="list-style-type: none"> • w=43% K=1.05 ϕ=65% • %CaCO₃=22.3 X10C-0.04 • %CaCO₃=62.7 								
			CC OG IW								
			1 0.5 1.0 2 3 4 5 6 7								
			* * * * * * * * * * * * * *								





SITE 737 HOLE B CORE 31R CORED INTERVAL 504.7-514.4 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							
LOWER OLIGOCENE										
F/M	P19/20									
A/G	CP17-CP19									
B										
					●**21% γ -2.08 ϕ +42%					
					●%CaCO ₃ =42.2					
					CC					



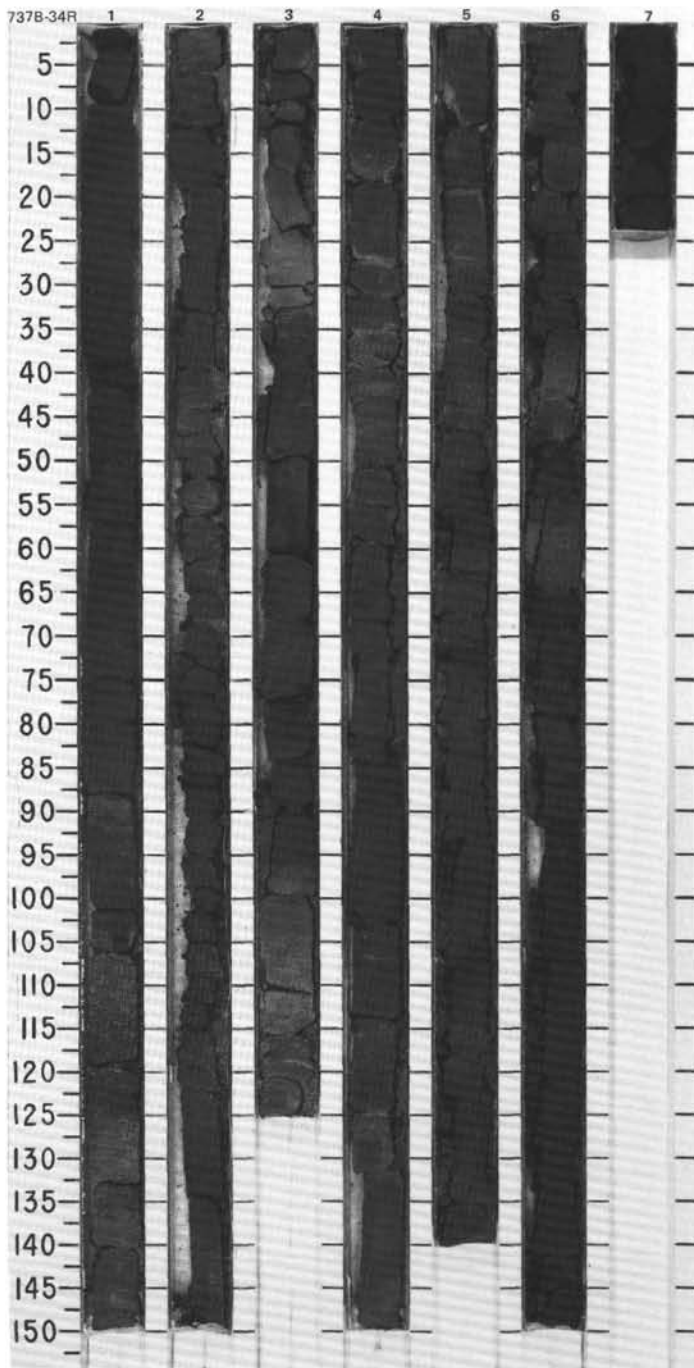
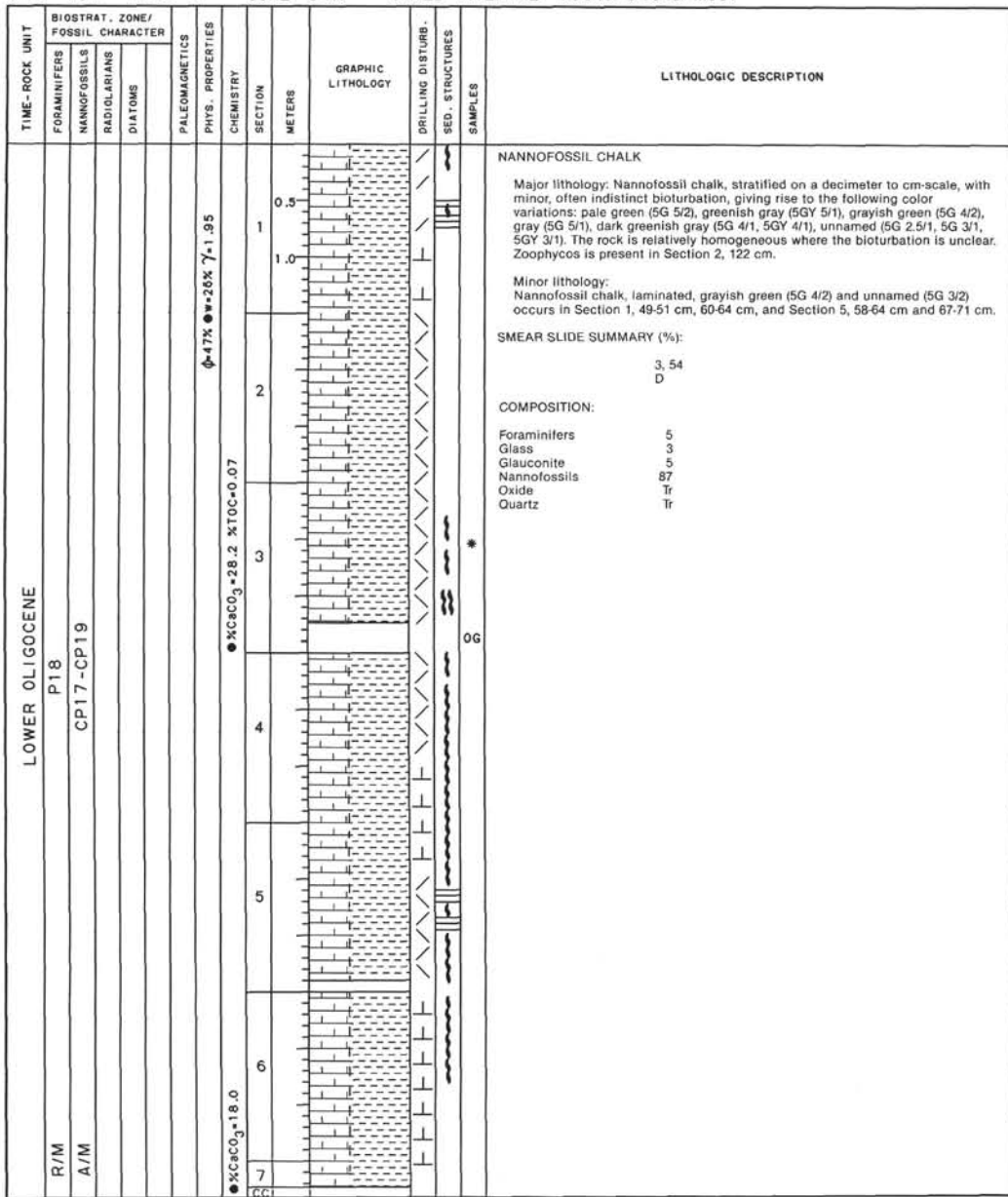
737 B 32R NO RECOVERY

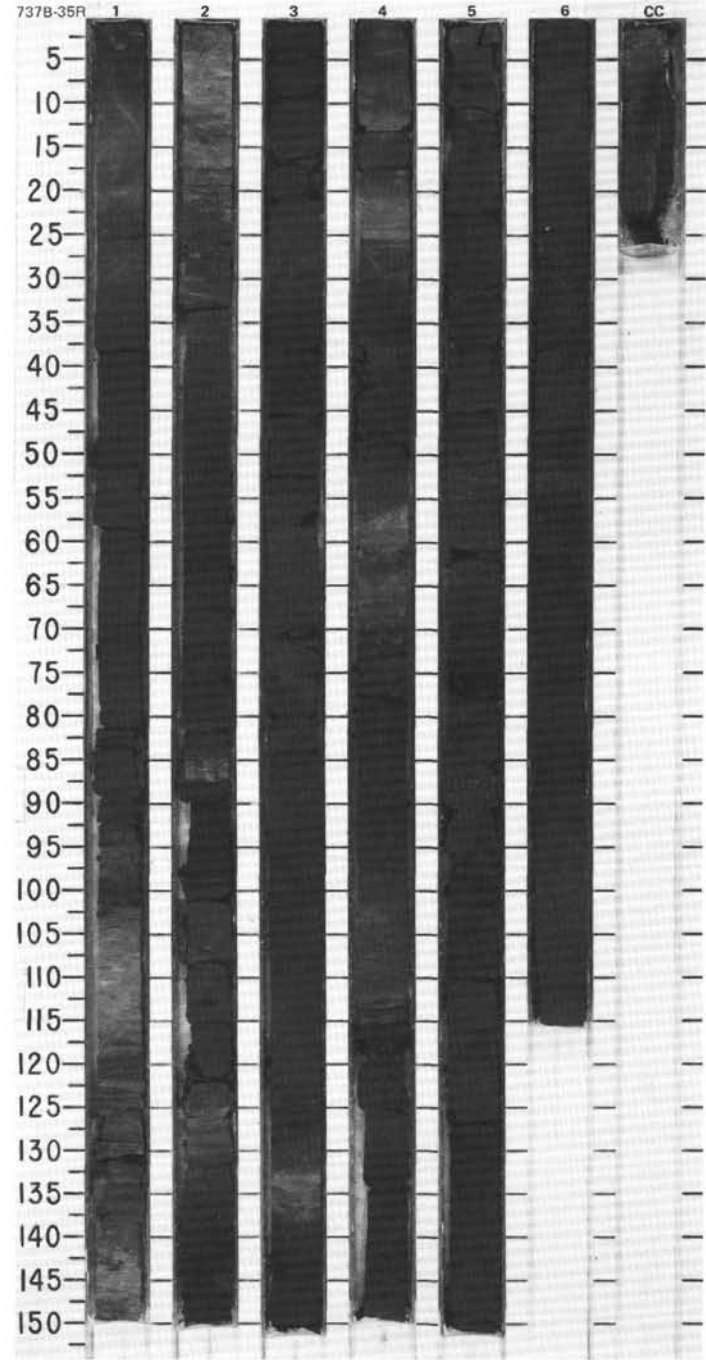
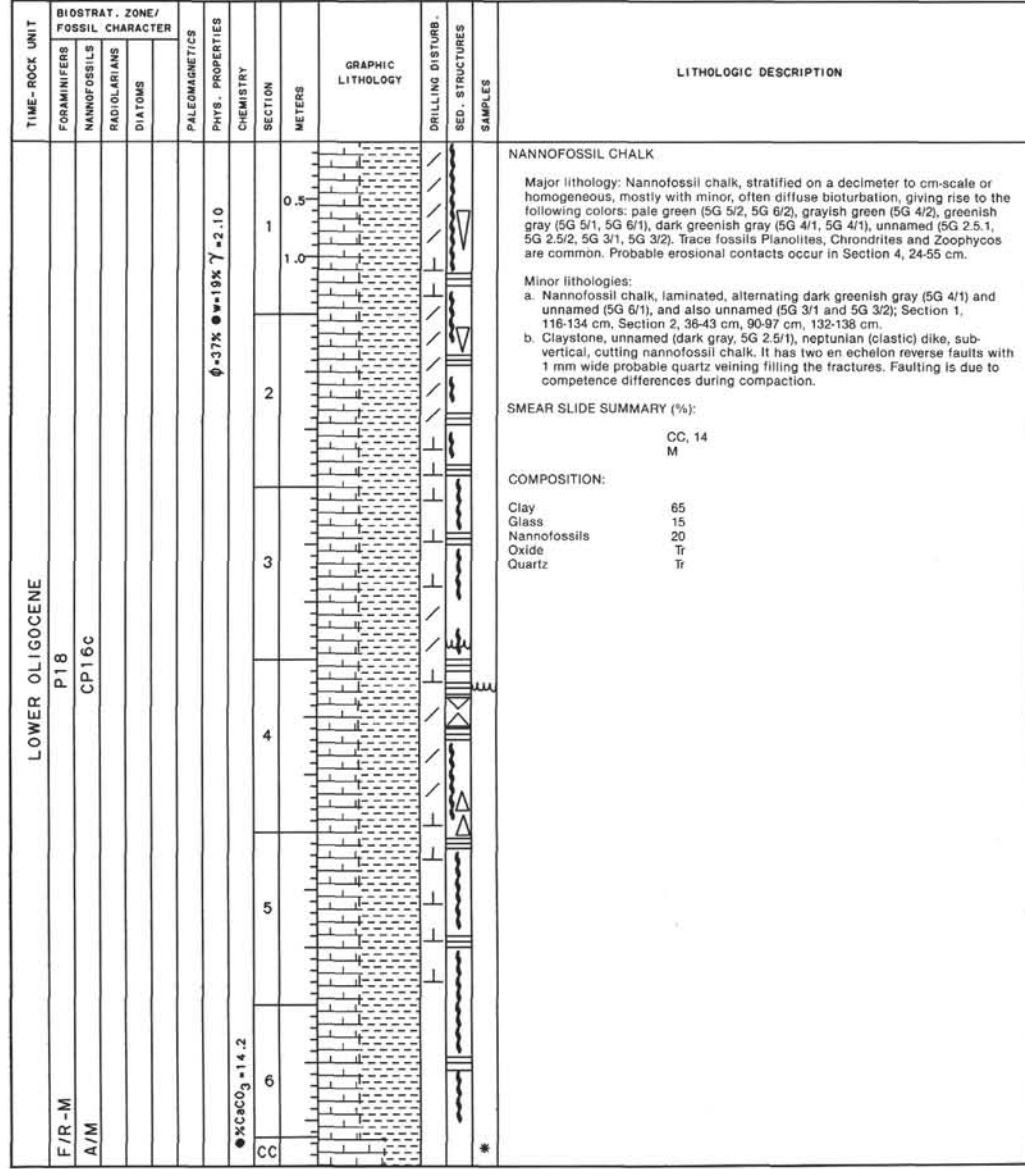
SITE 737 HOLE B CORE 33R CORED INTERVAL 524.0-533.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																											
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																		
LOWER OLIGOCENE	A/G	P18			● w-31% γ -1.99 ϕ -83% ● %CaCO ₃ = 20.1	1	0.5 1.0			*	<p>NANNOFOSSIL CHALK</p> <p>Major lithology: Nannofossil chalk, stratified on a decimeter-scale, minor bioturbation, showing a complex mix of lighter and darker burrows, and represented by the following colors: greenish gray (5G 4/1), very dark gray (5Y 3/1), dark olive gray (5Y 3/2), black (5Y 2.5/1, 5Y 2.5/2), unnamed (5G 6/1, 5G 3/1, 5G 3/2, 10GY 3/1). Trace fossils include Chondrites, Section 3, 0-30 cm and Zoophycos, Section 2, 80-90 cm.</p> <p>Minor lithology: Nannofossil chalk, laminated, grayish green (5G 4/2), burrowed, Section 1, 36-40 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>1, 12</td> <td>2, 45</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Access. Minerals</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Diatoms</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>2</td> <td>—</td> </tr> <tr> <td>Glass</td> <td>—</td> <td>10</td> </tr> <tr> <td>Nannofossils</td> <td>98</td> <td>87</td> </tr> <tr> <td>Oxide</td> <td>Tr</td> <td>2</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>1</td> </tr> </table>		1, 12	2, 45	D		D	Access. Minerals	Tr	—	Diatoms	Tr	—	Foraminifers	2	—	Glass	—	10	Nannofossils	98	87	Oxide	Tr	2	Quartz	—	1
		1, 12	2, 45																																			
	D		D																																			
Access. Minerals	Tr	—																																				
Diatoms	Tr	—																																				
Foraminifers	2	—																																				
Glass	—	10																																				
Nannofossils	98	87																																				
Oxide	Tr	2																																				
Quartz	—	1																																				
					2																																	
						3																																



SITE 737 HOLE B CORE 34R CORED INTERVAL 533.6-543.3 mbsf





SITE 737 HOLE B CORE 36R CORED INTERVAL 552.9-562.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
LOWER OLIGOCENE													
A/M							0.5						
A/M		CP16C					1.0						
B													
					$\phi = 49\%$, $w = 28\%$, $\gamma = 1.91$								
					$\% \text{CaCO}_3 = 42.5$		2						
							3						
							CC						

NANNOFOSSIL CHALK

Major lithology: Nannofossil chalk, stratified on a decimeter to cm-scale, mostly with minor bioturbation, giving rise to the following colors: dark greenish gray (5G 4/1), greenish gray (5G 5/1) and unnamed (5G 2.5/1, 5G 7/1 and 5G 3/1). A complex burrow structure occurs in Section 2, 65-90 cm. Small fragments occur in Section 1, 50-70 cm.

Minor lithologies:

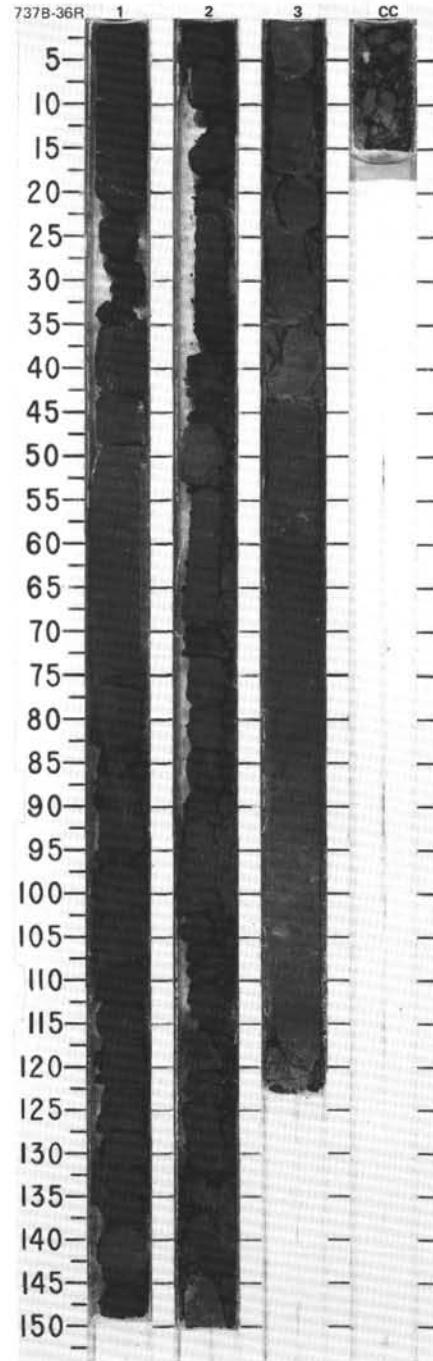
- Nannofossil chalk, laminated, dark greenish gray (5G 4/1) and unnamed (5G 3/1), in Section 3, 7-10 cm, 73-74 cm, 111-113 cm and 118-121 cm.
- Claystone, unnamed (dark gray; 5G 2.5/1) in Section 1, 0 to 20-25 cm (diagonal contact), Neptunian dike in CC. Three quartz veins.

SMEAR SLIDE SUMMARY (%):

1, 120	2, 83	3, 50
D	M	D

COMPOSITION:

Access. Minerals	—	—	Tr
Clay	15	—	—
Foraminifers	7	Tr	8
Glass	10	—	5
Glauconite	1	50	—
Nannofossils	60	47	80
Oxide	2	3	2
Palagonite	5	—	5



SITE 737 HOLE B CORE 37R CORED INTERVAL 562.5-572.2 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									
LOWER OLLIGOCENE		R/M	P18									
		A/G	CP16C									
		B										
					$\bullet w=31\% \gamma = 1.97 \phi = 52\%$							
					$\bullet w=36\% \gamma = 1.89 \phi = 58\%$							
					$\bullet \%CaCO_3 = 16.9 \ \%TOC = 0.04$							
					$\bullet \%CaCO_3 = 16.9 \ \%TOC = 0.00$							

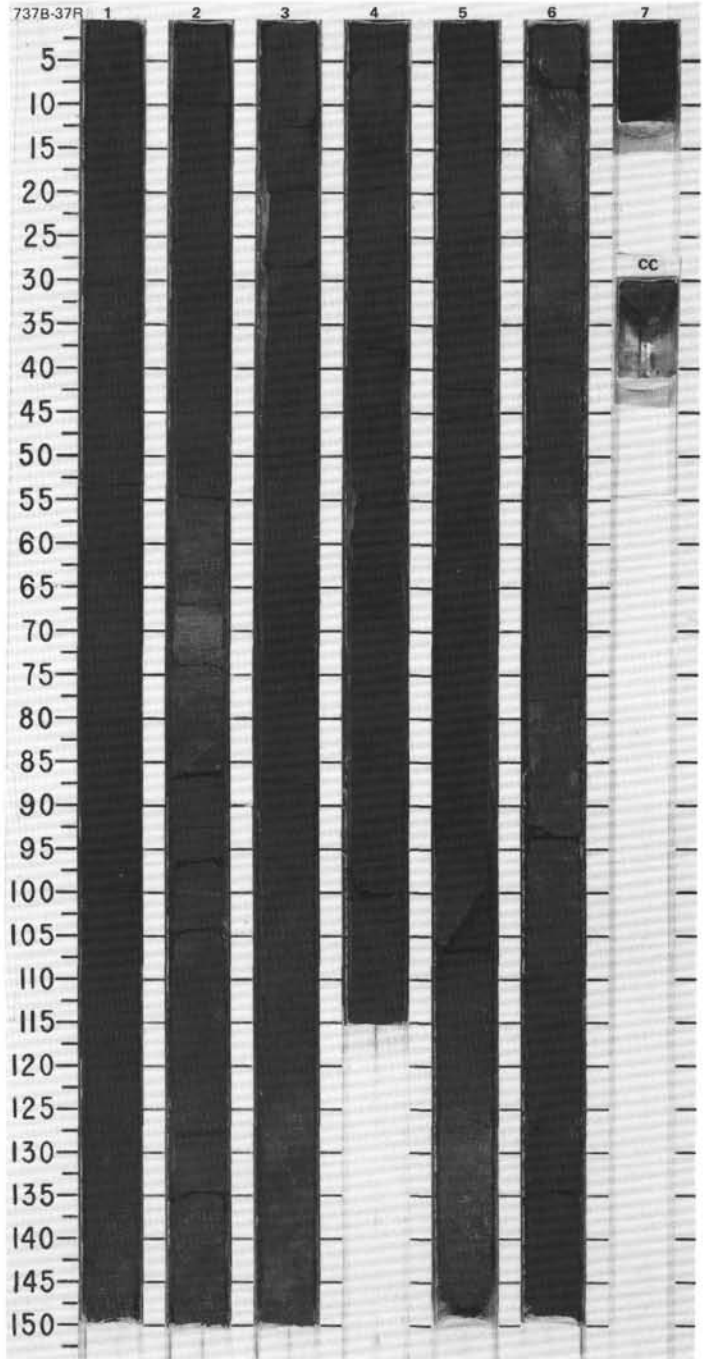
NANNOFOSSIL CHALK
 Major lithology:
 Nannofossil chalk, pale green to green black (5G 2.5/1, 10GY 4/1, 10G 3/1, 10G 5/1, 10G 4/1, 10G 3/3, 5G 3/1, 10G 2.5/2, 10G 3/2, 10GY 2.5/1); well bioturbated (Planolites, Zoophycos, Chondrites, Thalassinoides and others) and with lithological color banding on a scale of dm-cm. Secondary color banding seen in Section 6, 74-78 cm, 131-139 cm; Section 2, 51-57 cm, 127-129 cm; Section 3, 31-33 cm; Section 4, 29-36 cm.
 White sparite infill of burrow in Section 1 at 105 cm; specks of white (microfossil?) material in Section 1, 81 cm, 92 cm, 98 cm, and 145 cm. Units are noted where colour tones become paler up to a sharp upper boundary; Section 2, 53-86 cm; Section 3, 33 cm, 78-33 cm; Section 4, 49-36 cm; Section 5, 59-25 cm.

SMEAR SLIDE SUMMARY (%):

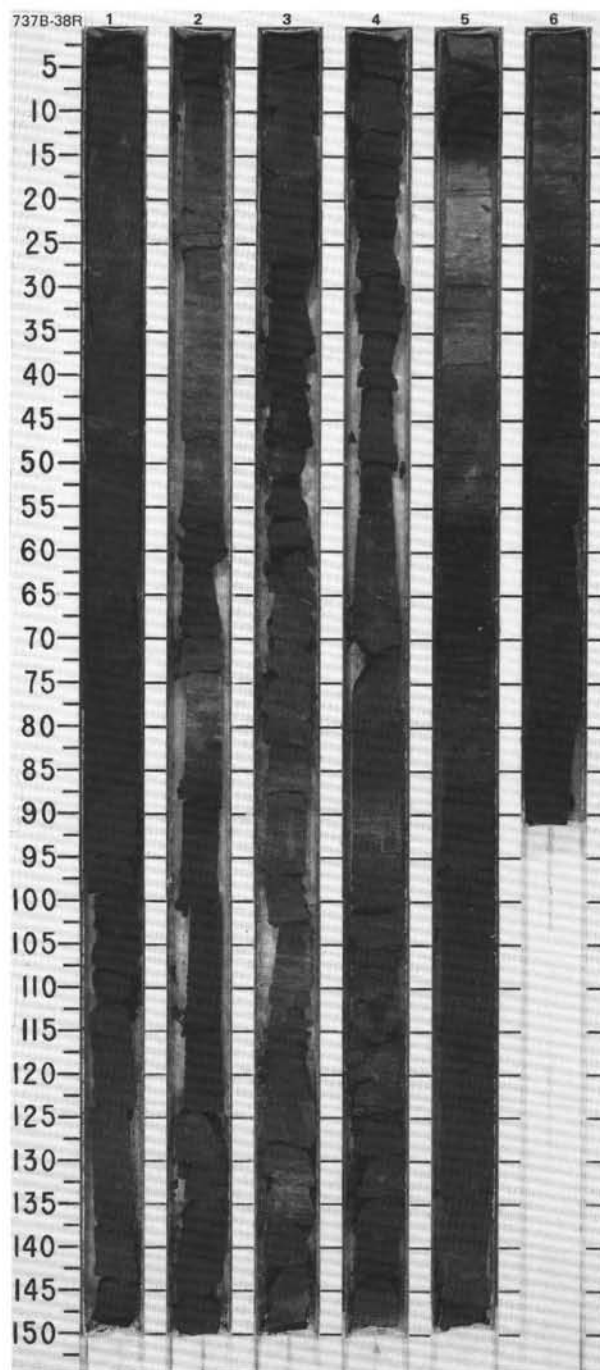
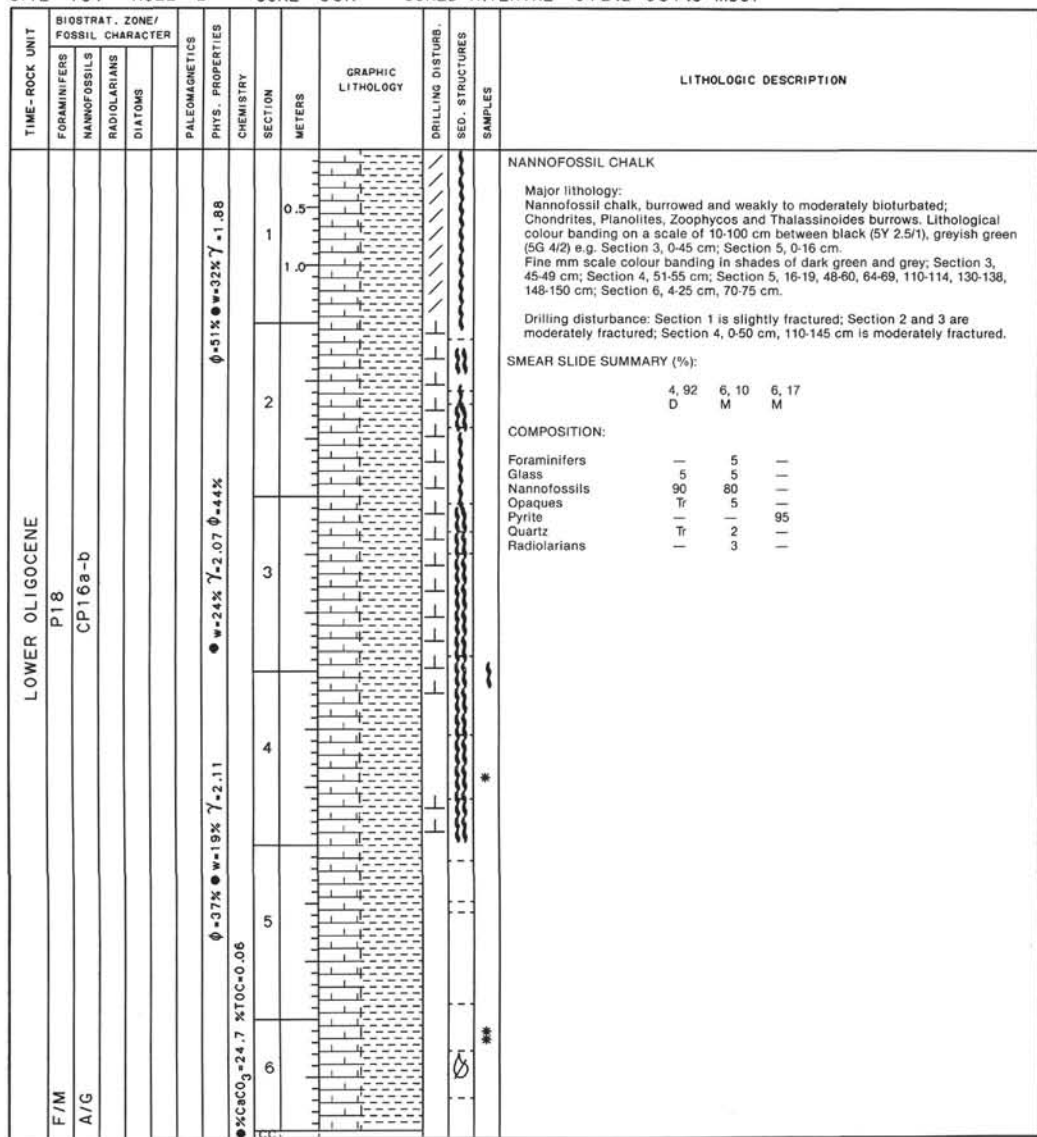
	3, 32	5, 129
	M	D

COMPOSITION:

Access. Minerals	—	10
Diatoms	Tr	—
Feldspar	—	Tr
Foraminifers	—	Tr
Glass	Tr	Tr
Glauconite 85	—	—
Nannofossils	10	75
Opal	—	10
Opaques	—	Tr
Quartz	—	—
Radiolarians	Tr	—

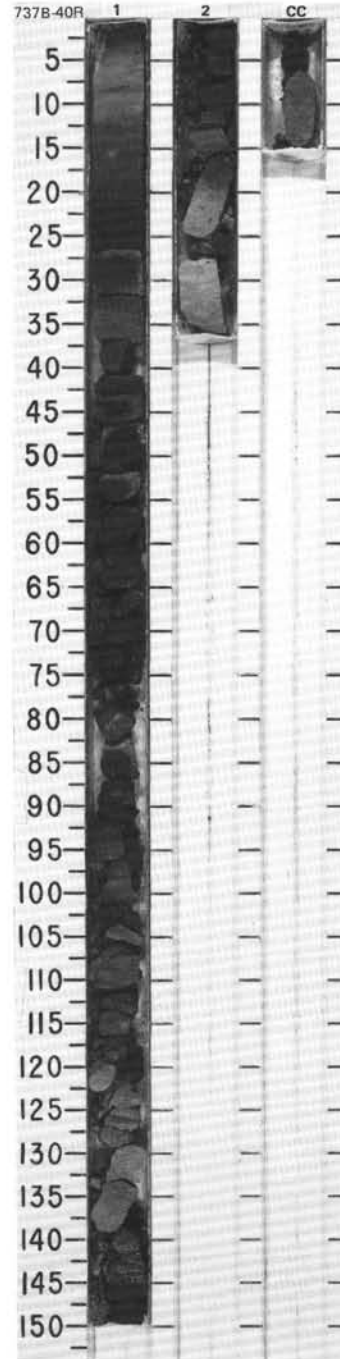


SITE 737 HOLE B CORE 38R CORED INTERVAL 572.2-581.8 mbsf

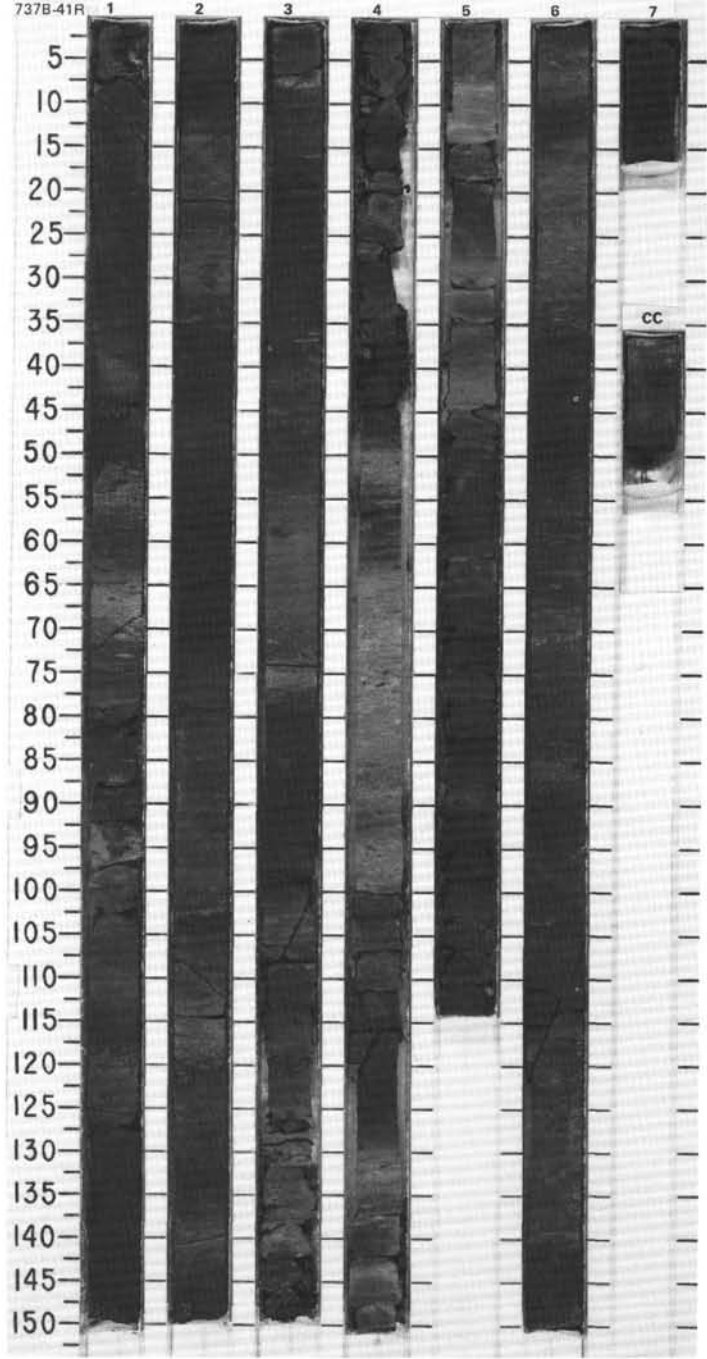


SITE 737 HOLE B CORE 40R CORED INTERVAL 591.5-601.1 mbsf

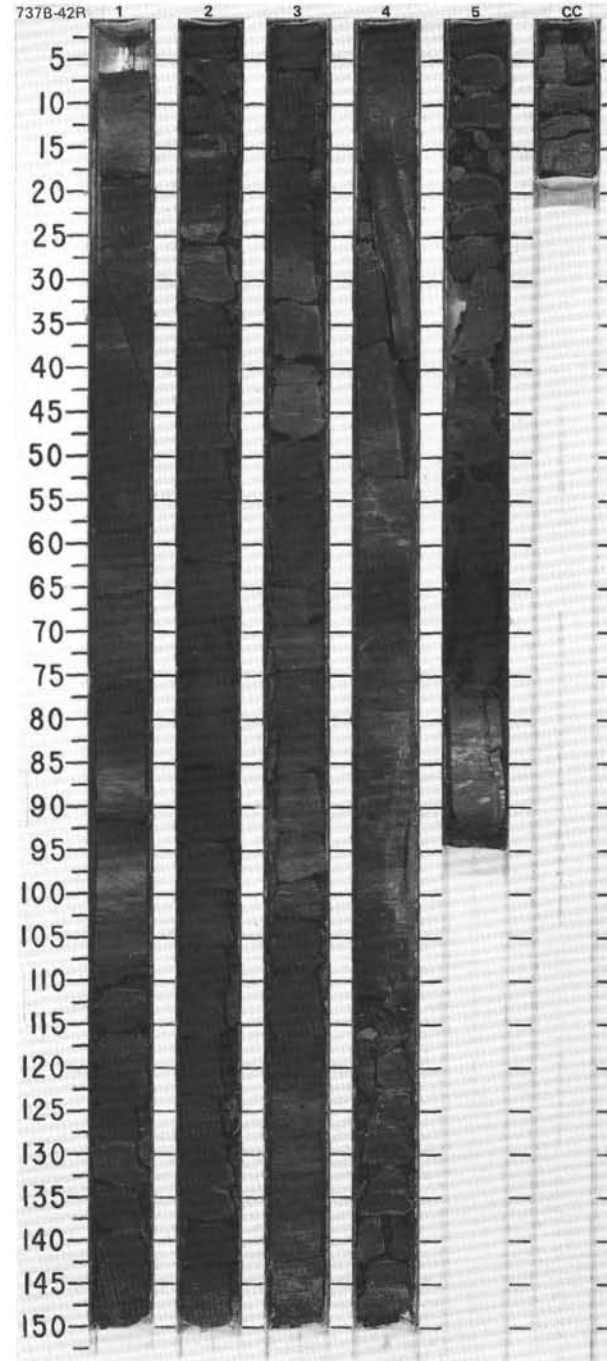
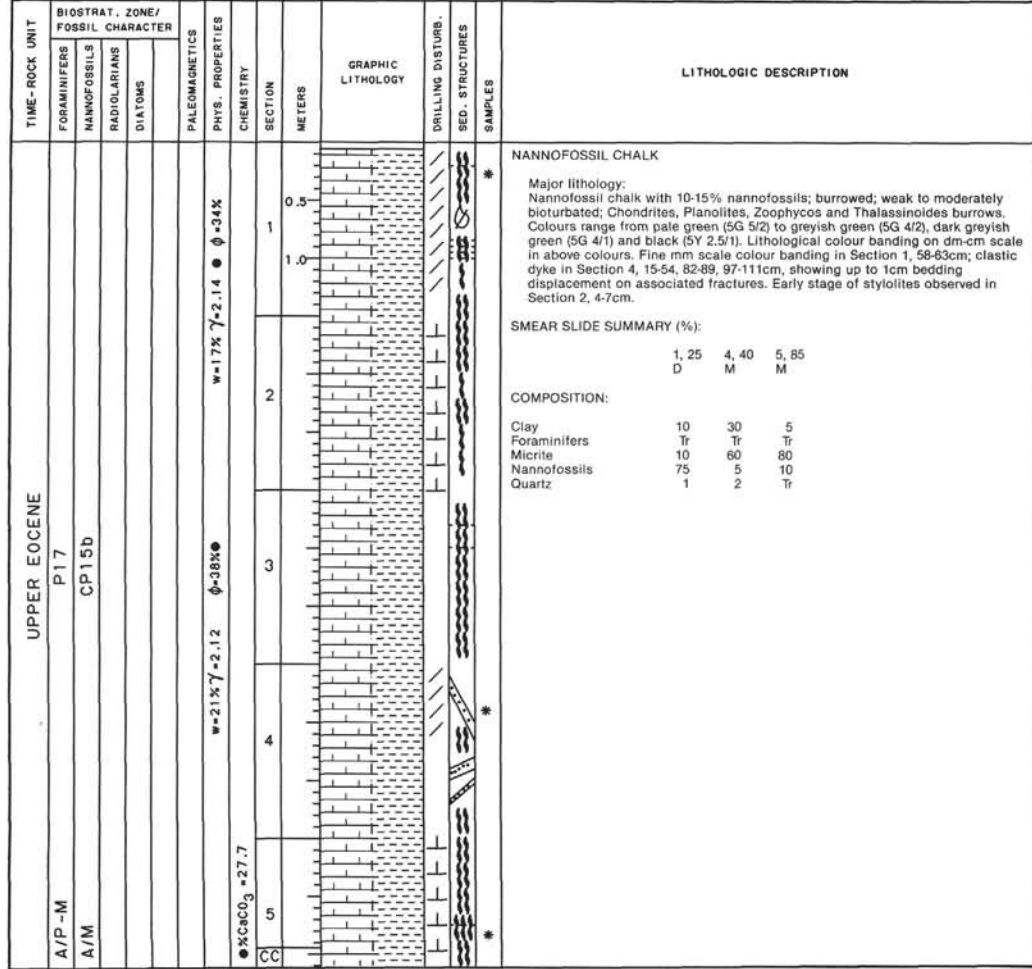
TIME-ROCK UNIT	BIOSTRAT. ZONE / FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
LOWER OLIGOCENE													
F/M-P	P17							0.5					<p>NANNOFOSSIL CHALK</p> <p>Major lithology: Nannofossil chalk, pale green (5G 6/1, 10G 7/7) to dusky green (5G 3/1); colour banding on dm scale throughout core; weak to moderate bioturbation; Chondrites and Planolites burrows. Fine mm scale colour banding in Section 1, 26-29, 43-52, 88-103 cm.</p> <p>Drilling disturbance: Entire core moderately to highly fractured.</p>
A/M	CP16a-b						1.0						
							2						
							CC						

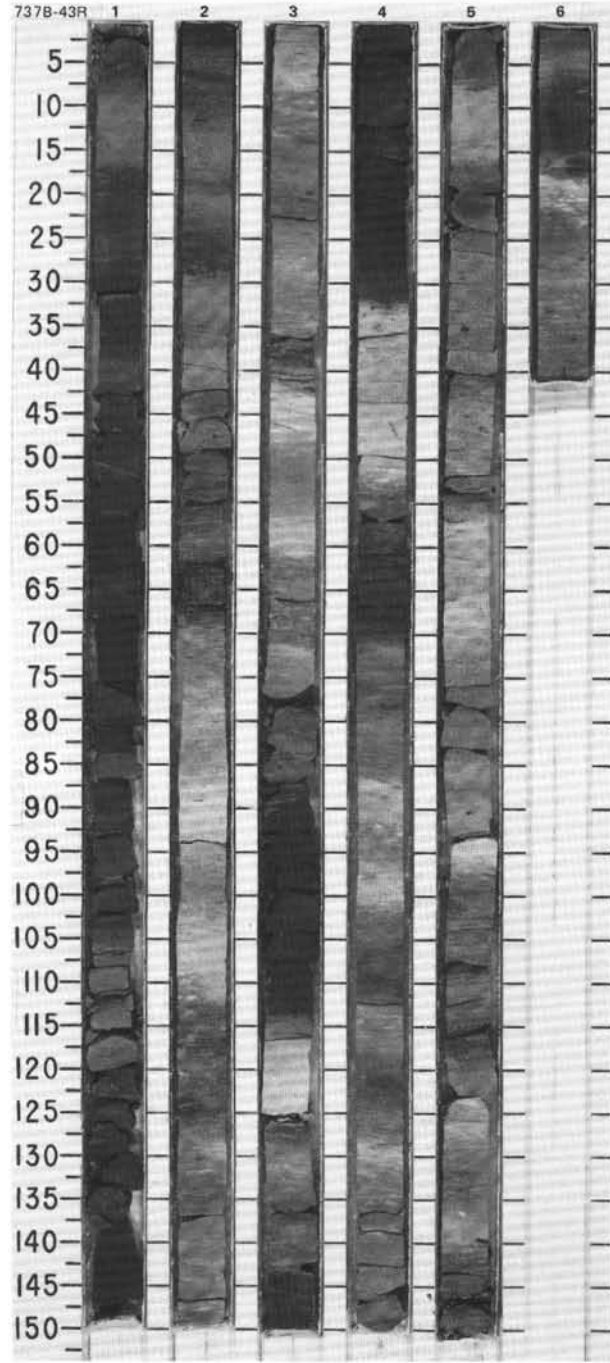
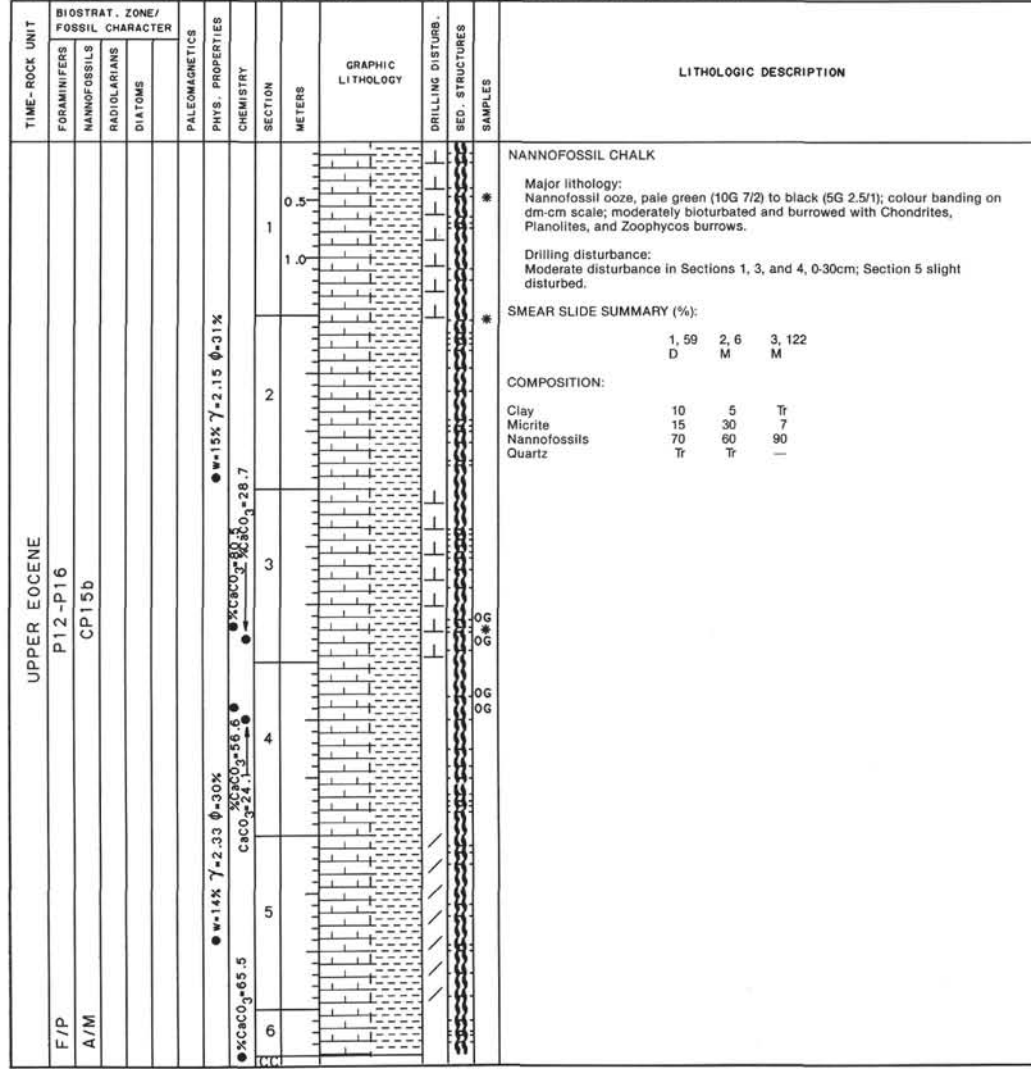


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
UPPER EOCENE	LOWER OLIGOCENE										
F/P	P17										<p>NANNOFOSSIL CHALK</p> <p>Major lithology: Nannofossil chalk, light to dark greyish green and greenish black (5G 4/2, 5G 6/1, 5G 4/2, 5Y 2.5/1, 10G 4/2, 10G 4/1, 5G 5/2, 5G 3/1); well bioturbated (Planolites, Zoophycos, Chondrites, Thalassinoides and others) with lithological colour banding on 5-50cm scale. Secondary dark green colour banding occurs in Section 2, 7-15cm; Section 3, 23-24, 143-144cm. Pyrite infilled burrow in Section 2 at 129cm; fault with 5mm bedding displacement in Section 1, 100cm; fracture in Section 6, 110-119cm; clastic dyke in Section 1, 35-53cm, composed of grey-green (5G 6/1, 5Y 2.5/1) nannofossil chalk with sharp, straight margins.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">4, 60 D</p> <p>COMPOSITION:</p> <p>Access. Minerals 5 Foraminifers Tr Nannofossils 90</p>
A/M	CP15b	A/M ~ A/M	w=20% $\gamma=2.13$ $\phi=+40\%$ ●%CaCO ₃ =39.8 %TOC=0.01		1	0.5 1.0					
B			●w=22% $\gamma=2.14$ $\phi=+40\%$		2						
B					3						
B					4						
					5						
					6						
					7						
					CC						



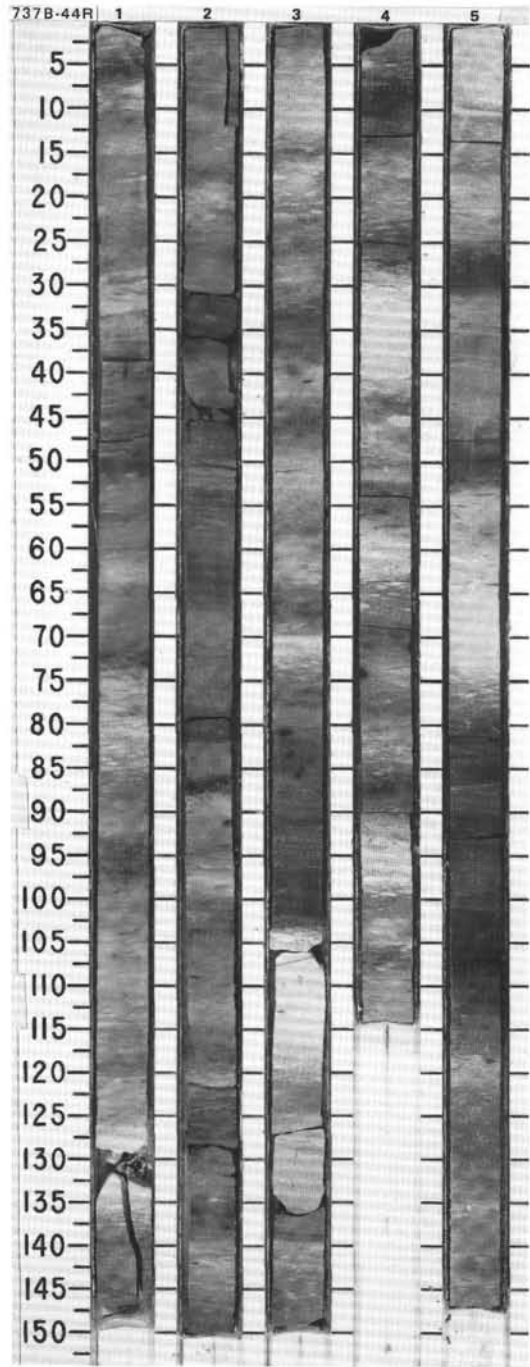
SITE 737 HOLE B CORE 42R CORED INTERVAL 610.7-620.3 mbsf





SITE 737 HOLE B CORE 44R CORED INTERVAL 630.0-639.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	DINO- FLAGELLATE								
UPPER EOCENE													
R/M	P12-P16												
A/M	CP15b												
B													
						$\phi = 35\%$ $w = 18\%$ $\gamma = 2.16$							
						$w = 18\%$ $\gamma = 2.19$ $\phi = 37\%$							
						$\%CaCO_3 = 32.7$							
						$\%CaCO_3 = 76.3$ $\%TiO_2 = 0.19$							

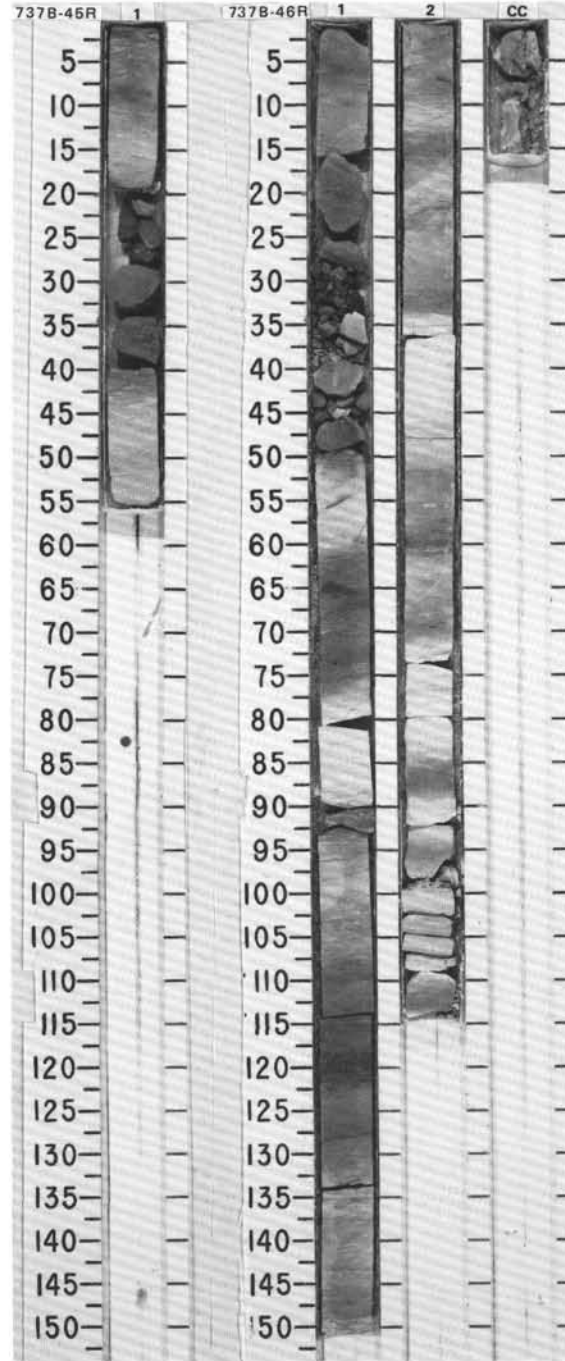


SITE 737 HOLE B CORE 45R CORED INTERVAL 639.6-649.3 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
UPPER EOCENE	P12-P16	R/M	A/M	CP15b					0.5				NANNOFOSSIL CHALK Major lithology: Nannofossil chalk, weakly stratified on a decimeter-scale and bioturbated, light greenish gray (5G 7/1) and greenish gray (5G 5/1).
							● CaCO ₃ =74.5	CC					

SITE 737 HOLE B CORE 46R CORED INTERVAL 649.3-658.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
UPPER EOCENE	P12-P16	R/M	CP15a	CP15b					0.5 1.0				NANNOFOSSIL CHALK Major lithology: Nannofossil chalk, stratified on a decimeter-scale often with diffuse boundaries, and minor bioturbation throughout most of the core, giving rise to the following colors: light greenish gray (5GY 7/1) greenish gray (5GY 5/1, 5G 5/1), dark greenish gray (5G 4/1), unnamed (5G 6/1, 5G 7/1, 5G 8/1). Zoophycos is especially well represented in Section 2, 0-80 cm. In Section 2, 57-62 cm, the nannofossil chalk is enriched in black silt-sized grains, probably glass or basaltic fragments. Minor lithology: Nannofossil chalk, laminated, grayish green (5G 4/2) and unnamed (5G 7/1) occurs in Section 2, 75-76 cm. SMEAR SLIDE SUMMARY (%): 1, 85 D COMPOSITION: Carbonate Particles 50 Foraminifers 10 Glauconite Tr Nannofossils 40 Oxide Tr
							● w=16% γ=2.34 φ=34%						
							● %CaCO ₃ =58.0	CC					

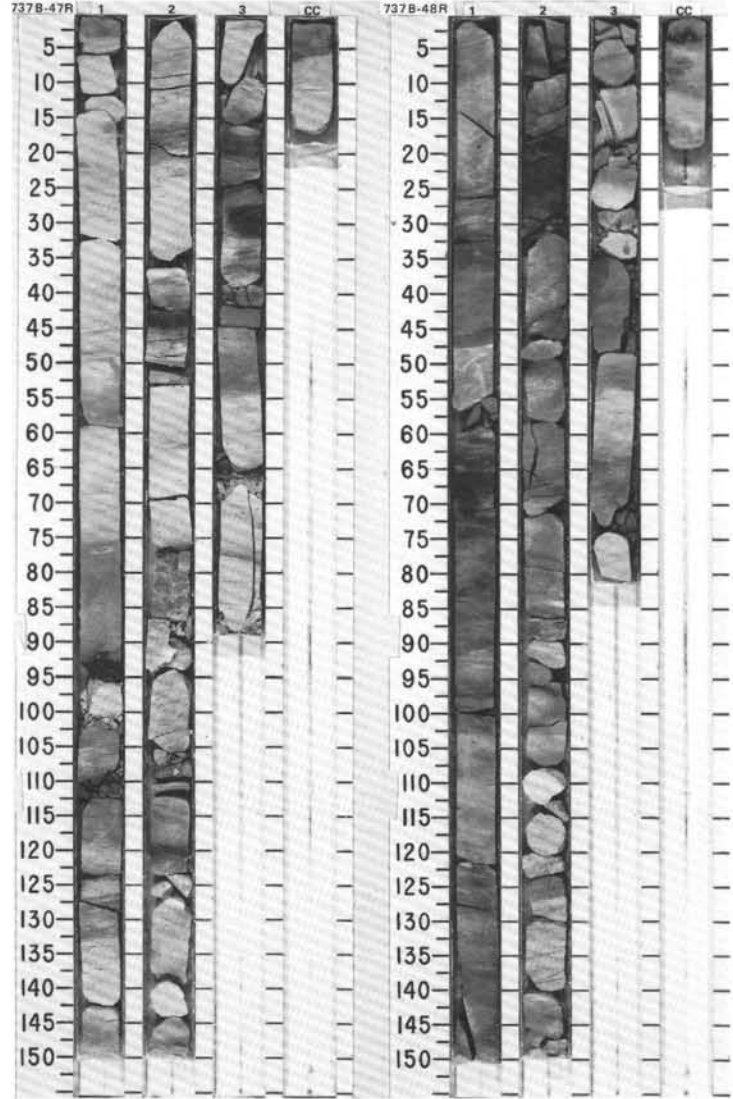


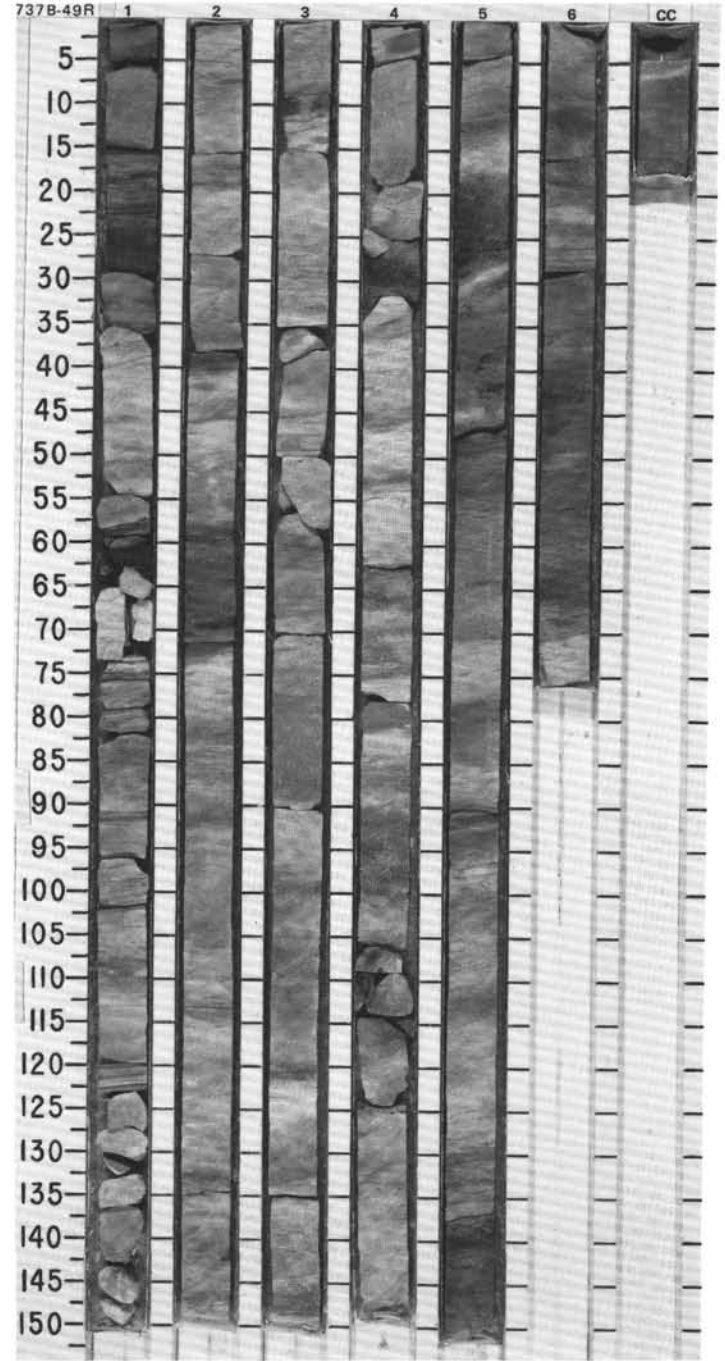
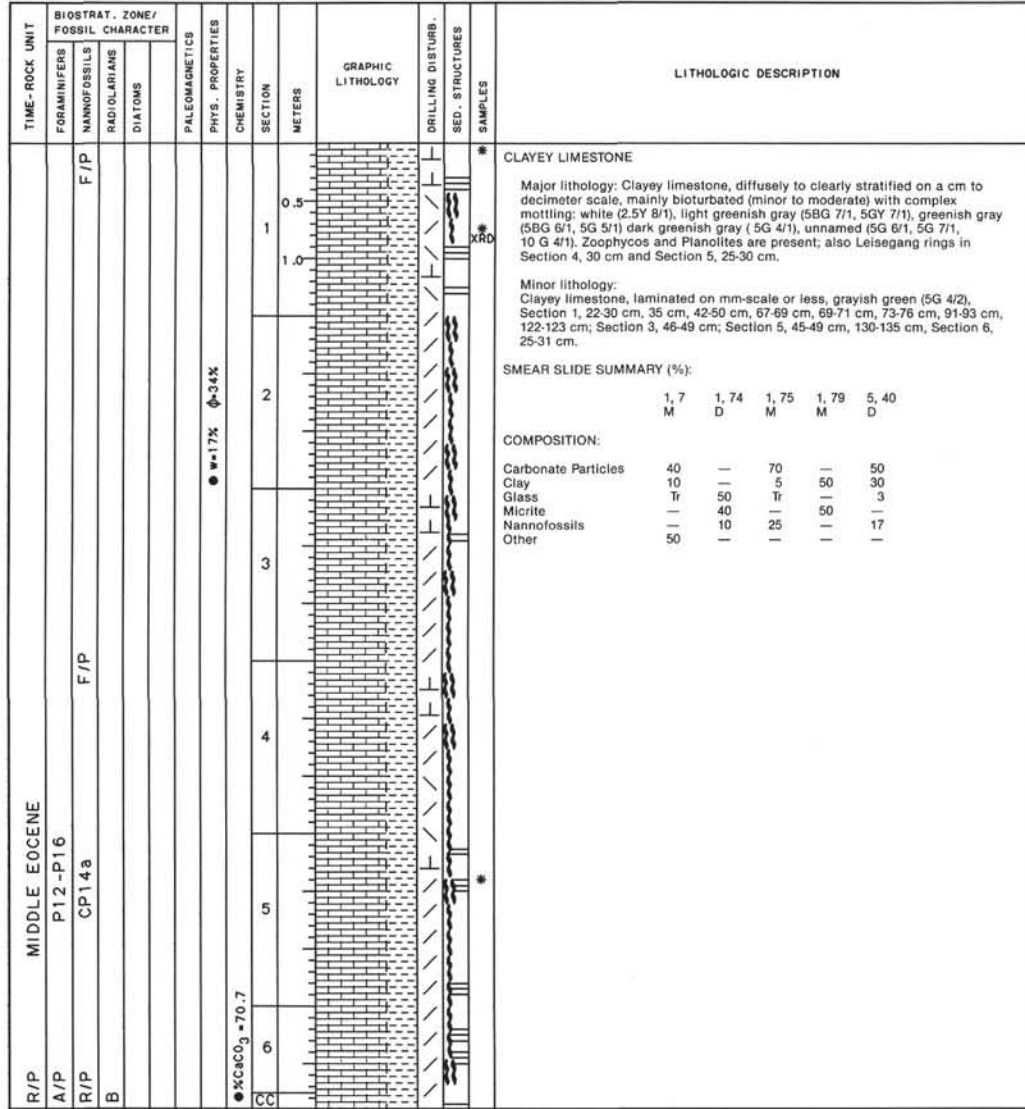
SITE 737 HOLE B CORE 47R CORED INTERVAL 658.6-667.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																		
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																											
	DINO- FLAGELLATE																														
	R/P																														
UPPER EOCENE	P12-P16 CP14b							1 2	0.5 1.0				<p>NANNOFOSSIL CHALK</p> <p>Major lithology: Nannofossil chalk, diffusely stratified on a cm to decimeter scale, minor to moderate bioturbation throughout with complex color mottling: light greenish gray (5GY 7/1), greenish gray (5BG 6/1, 5G 5/1), dark greenish gray (5G 4/1), black (10G 8/1), unnamed (5G 6/1, 5G 7/1, 10G 8/1). Zoophycos and Planolites are well developed in Section 3. Greenish gray layers produced a 10-20% acid-insoluble residue of an amorphous pale green "fluff." Black burrows contain mostly acid insoluble material.</p> <p>Minor lithology: Nannofossil chalk, laminated, alternating light greenish gray (5GY 7/1) and (5G 4/2), Section 1, 8 cm, 51-52 cm, 75 cm and Section 2, 125-127 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2, 94</td> <td>3, 55</td> </tr> <tr> <td></td> <td>M</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Carbonate Particles</td> <td>—</td> <td>65</td> </tr> <tr> <td>Clay</td> <td>98</td> <td>10</td> </tr> <tr> <td>Glass</td> <td>2</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>—</td> <td>25</td> </tr> </table>		2, 94	3, 55		M	D	Carbonate Particles	—	65	Clay	98	10	Glass	2	—	Nannofossils	—	25
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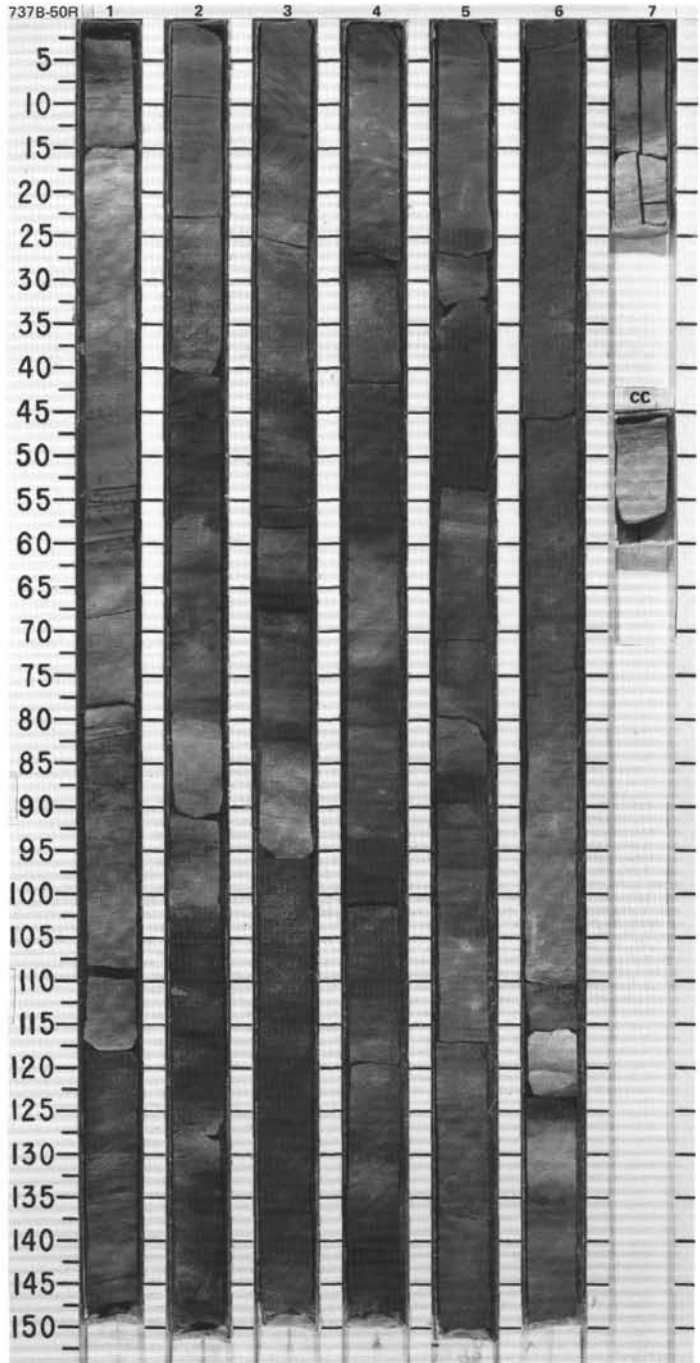
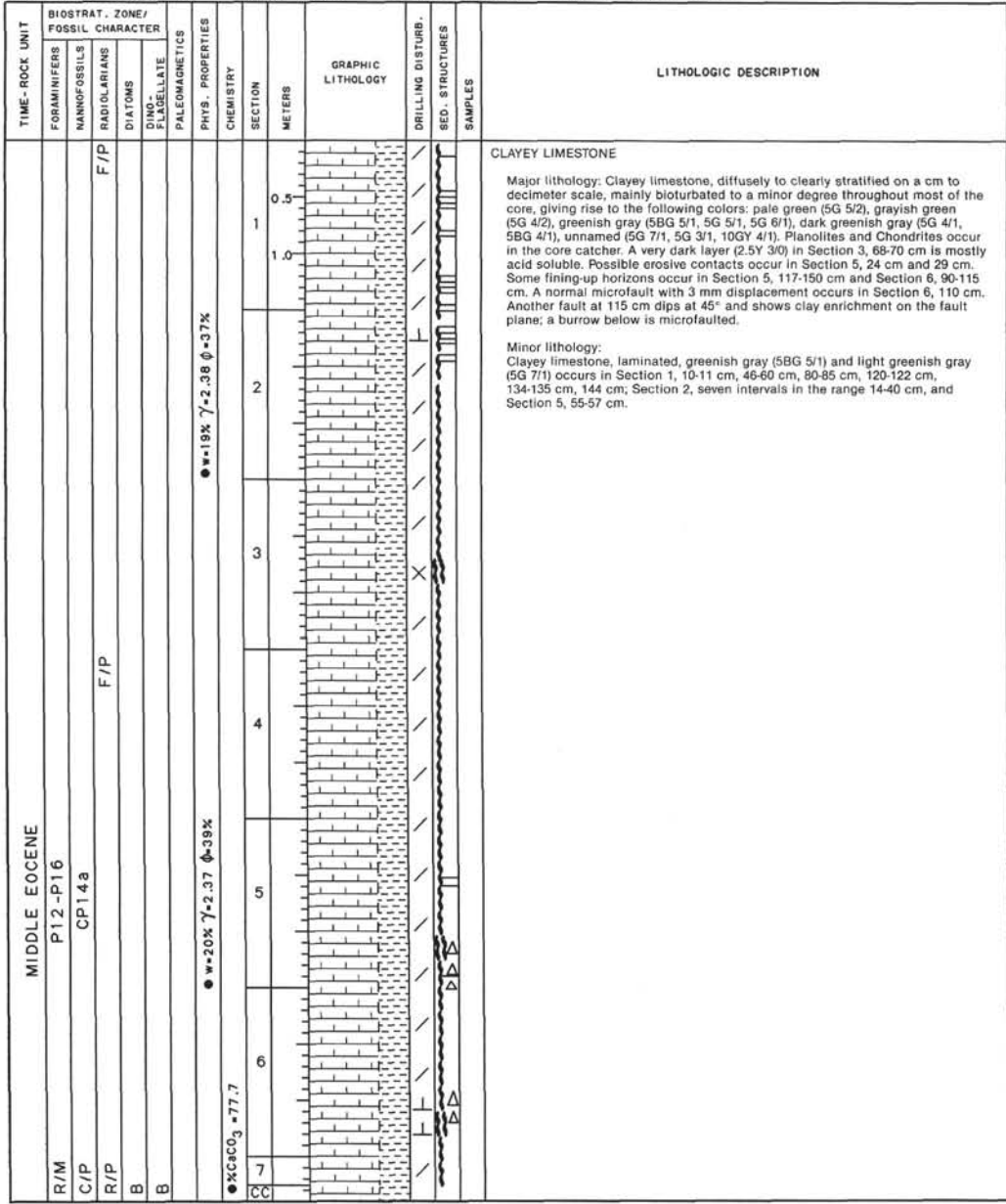
SITE 737 HOLE B CORE 48R CORED INTERVAL 667.9-677.6 mbsf

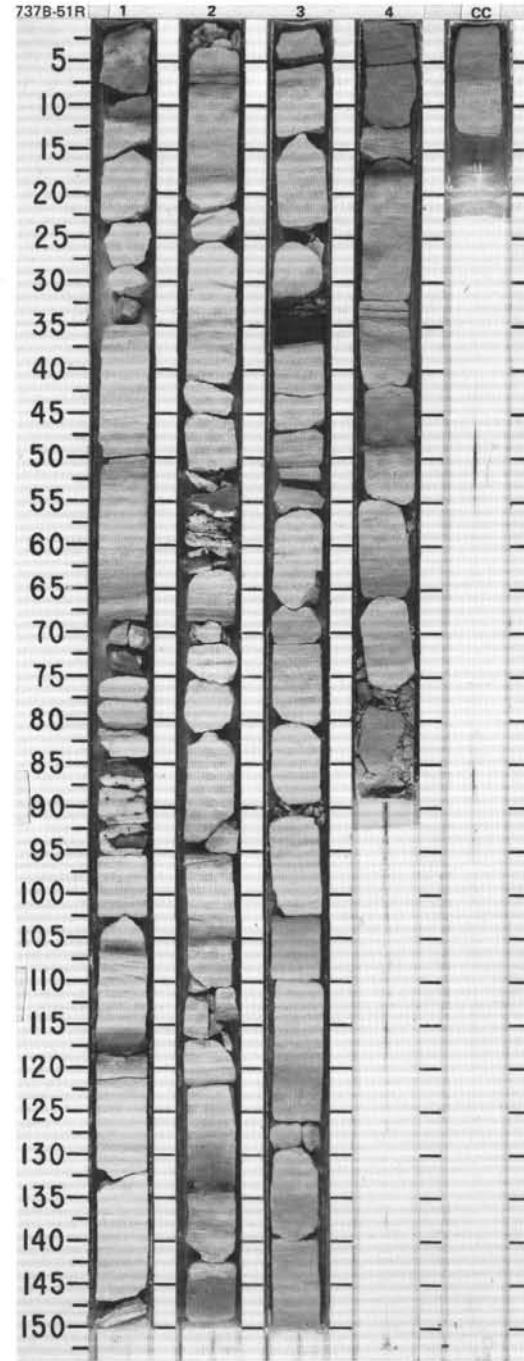
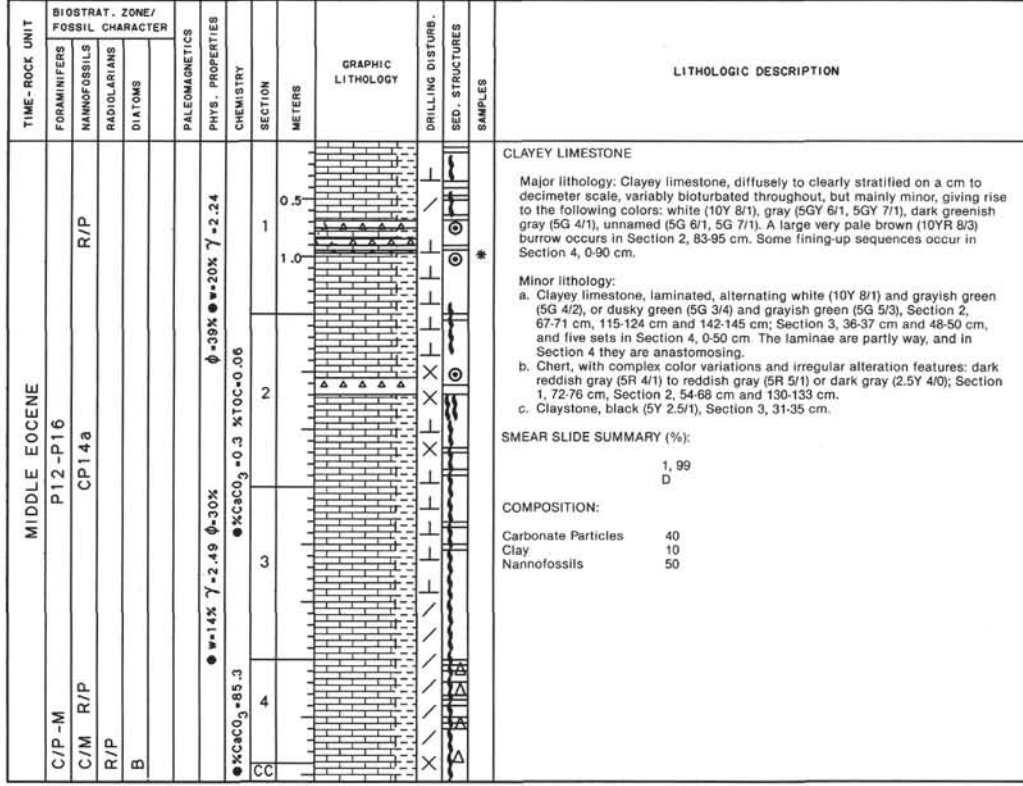
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION												
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																					
	DINO- FLAGELLATE																								
	R/P																								
MIDDLE EOCENE	P12-P16 CP14a							1 2	0.5 1.0				<p>NANNOFOSSIL CHALK</p> <p>Major lithology: Nannofossil chalk, diffusely to clearly stratified on a cm to decimeter scale, mainly bioturbated (minor to moderate) with complex mottling: white (5Y 8/1, 10G 8/1), greenish gray (5G 5/1), dark greenish gray (5G 4/1), black (5Y 2.5/1), unnamed (5G 8/1, 5G 7/1). A microfault cuts across burrows in Section 2, 65-73 cm. Curved diagenetic reaction laminae (Leisegang rings) passing through burrows in Section 3, 62-73 cm are a distinct grayish green (5G4/2).</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>3, 80</td> </tr> <tr> <td></td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Carbonate Particles</td> <td>35</td> </tr> <tr> <td>Clay</td> <td>5</td> </tr> <tr> <td>Nannofossils</td> <td>60</td> </tr> <tr> <td>Oxide</td> <td>Tr</td> </tr> </table>		3, 80		D	Carbonate Particles	35	Clay	5	Nannofossils	60	Oxide	Tr
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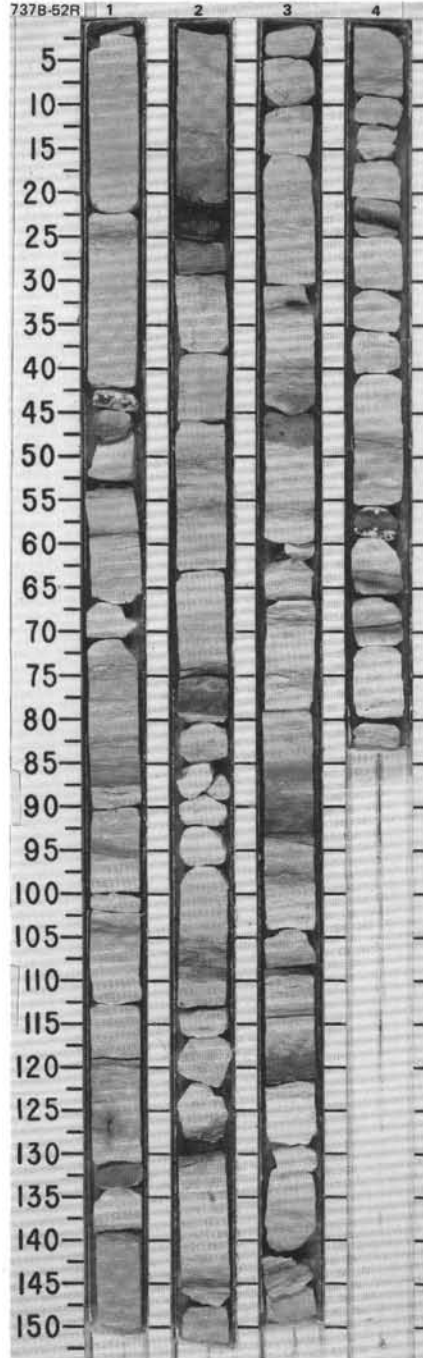
SITE 737 HOLE B CORE 50R CORED INTERVAL 686.5-696.5 mbsf





SITE 737 HOLE B CORE 52R CORED INTERVAL 705.9-715.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONOS									
MIDDLE EOCENE													
R/P-M	P12-P16	B											
A/M	CP14a												
B													
B													
					$\phi=25\%$ $\phi=12\%$ $\phi=2.33$ $\phi=44\%$								
					$w=22\%$ $\gamma=2.33$ $\phi=44\%$								
					$\%CaCO_3=66.4$								



CLAYEY LIMESTONE

Major lithology: Clayey limestone, diffusely to clearly stratified on a cm to decimeter scale, variably bioturbated (minor to moderate) giving rise to the following colors: light gray (5Y 7/1), greenish gray (5G 5/1) and dark greenish gray (5G 4/1), unnamed (5G 6/1, 5G 7/1). A large Planolites trace fossil occurs in Section 4, 50-56 cm. Flaser bedding occurs in Section 4, 6-7 cm, 48-49 cm, 64-65 cm and 81-82 cm.

Minor lithologies:

- Clayey limestone, wavy laminated, dark green (5G 7/1) or grayish green (5G 4/2) in unnamed (5G 7/1), Section 2, 24 cm, 48 cm, 59 cm, 86-89 cm, 120 cm, 140-141 cm; Section 3, 30-32 cm, 76 cm, 82 cm, 108-110 cm, 139-142 cm; Section 3, 109-111 cm, 115-117 cm and 143-145 cm.
- Chert replacing limestone, cloud-like structure or zoned, white (5Y 8/1), reddish gray (5R 5/1, 10R 6/1, 5R 6/1); Section 1, 40-43 cm and Section 4, 58-60 cm (zoned oval structure).
- Claystone, black (5Y 2.5/1) occurring as lenses in Section 1, 50-51 cm and Section 2, 22-26 cm (bioturbated).

SMEAR SLIDE SUMMARY (%):

2.80
M

COMPOSITION:

Carbonate Particles 65
Clay 5
Nannofossils 30