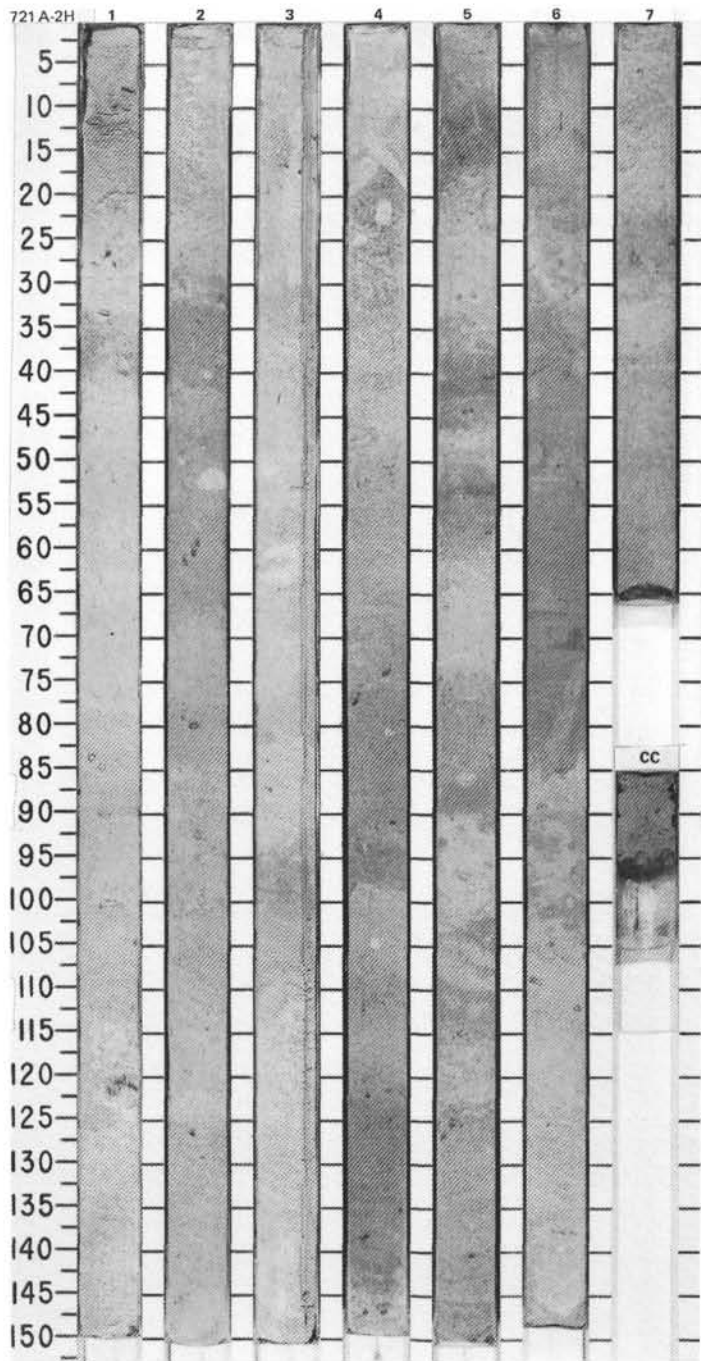
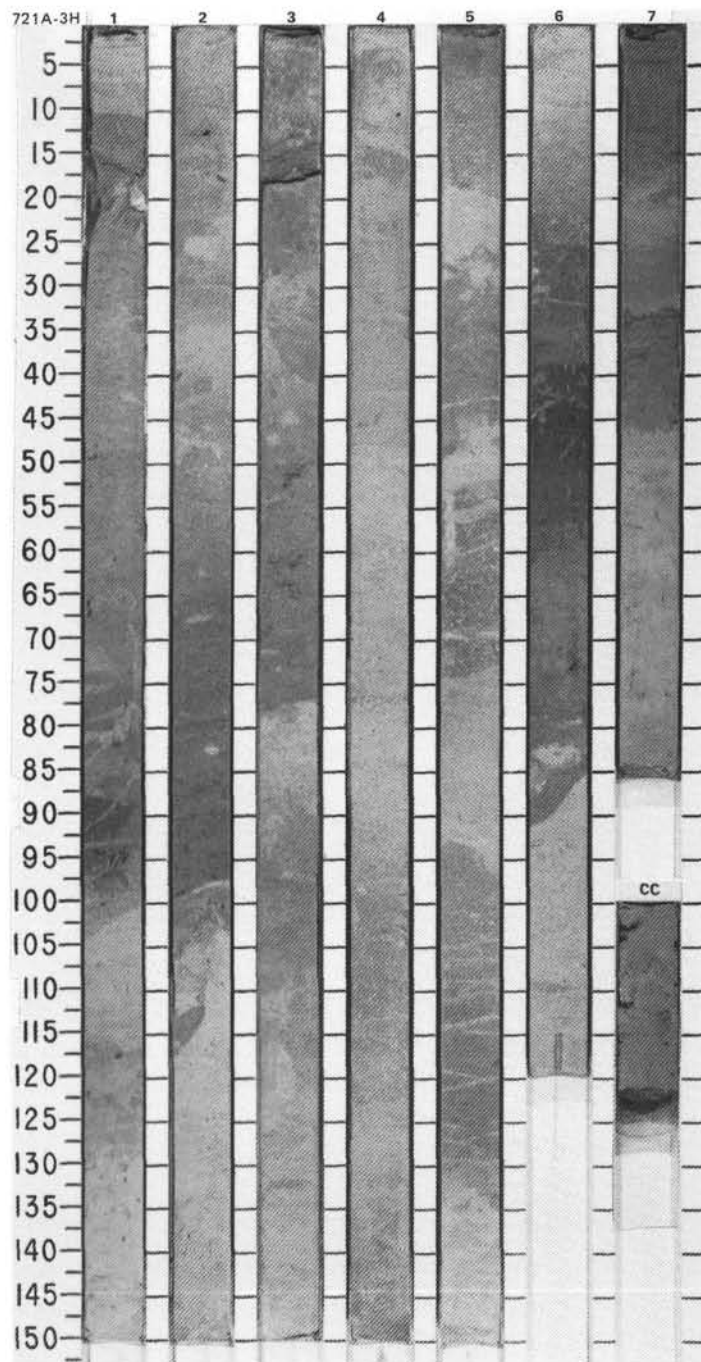
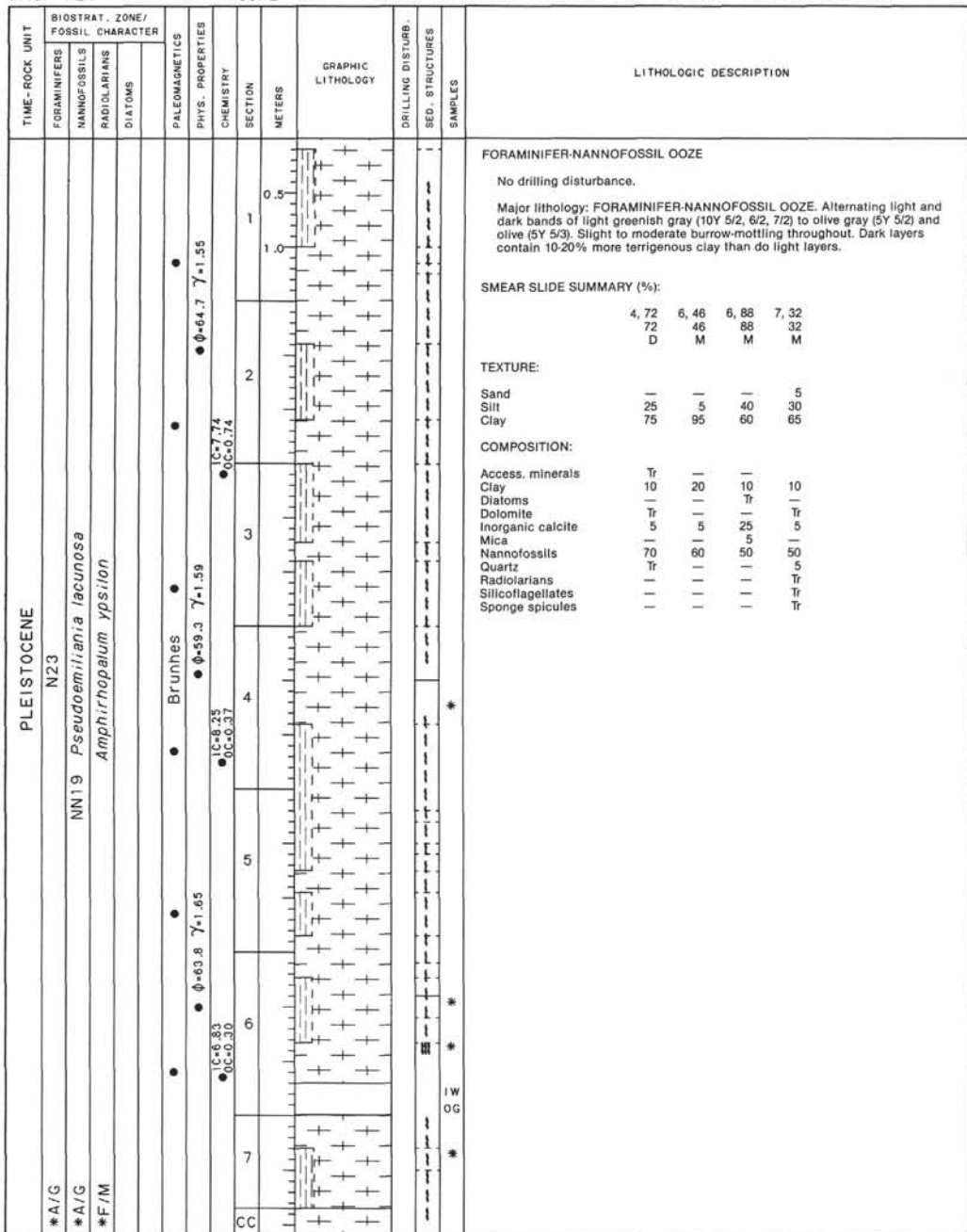


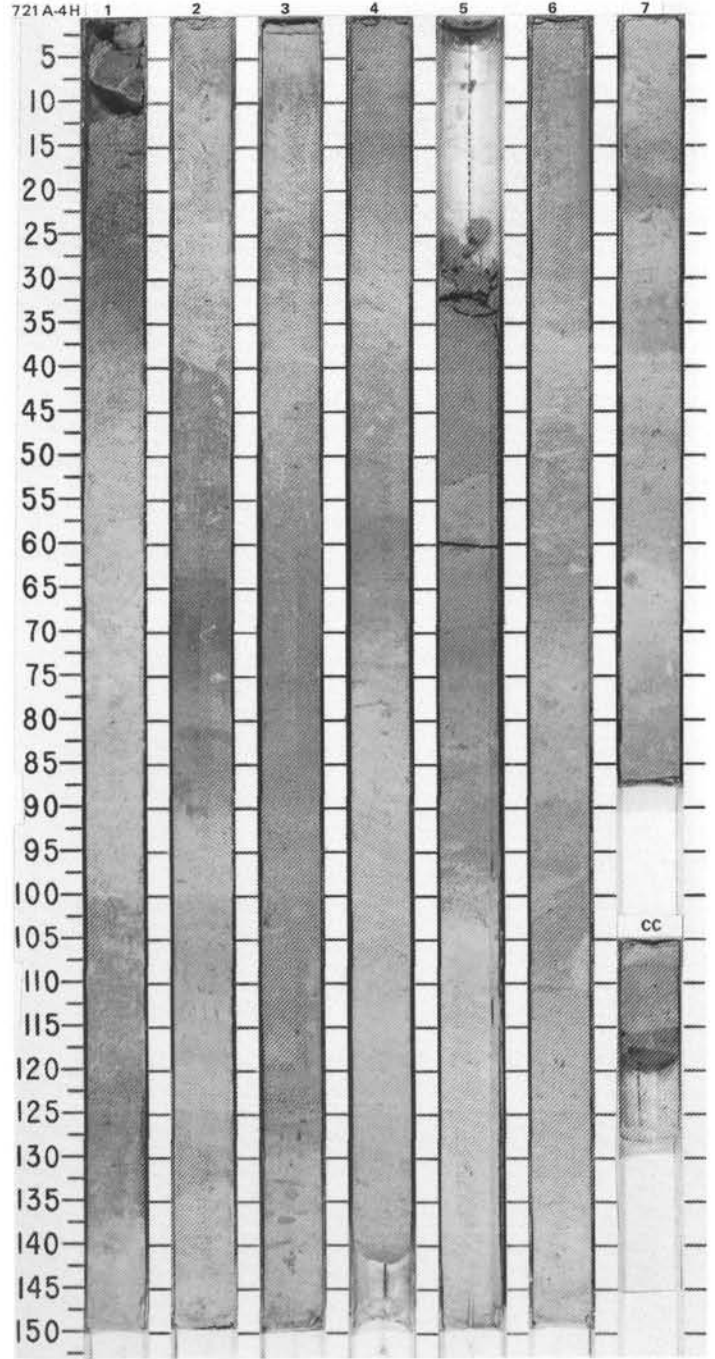
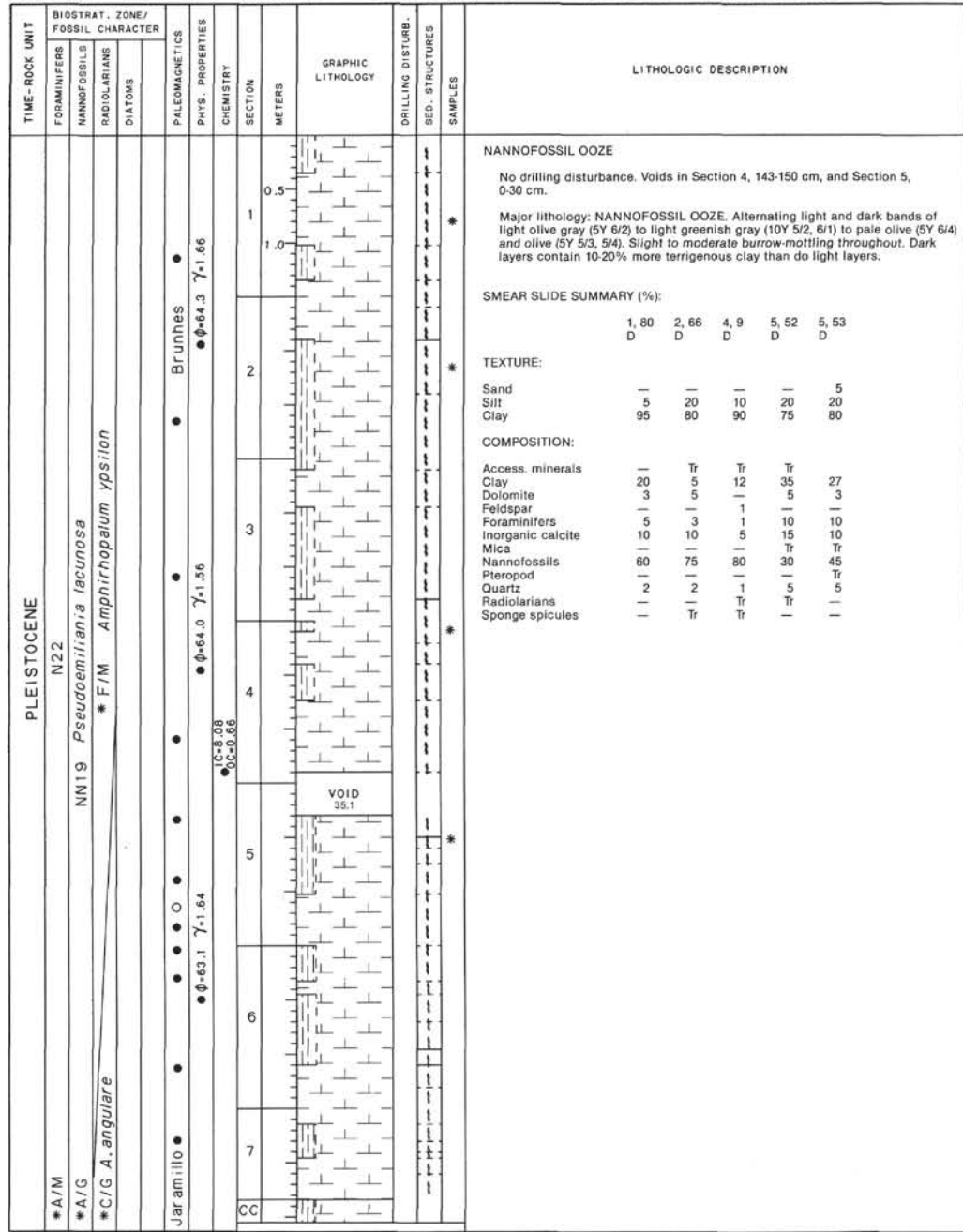
TIME - ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION						
*A/G *A/G NN19 <i>P. lacunosa</i> A/G * *F/M	NN20 <i>Gephyrocapsa oceanica</i> <i>Amphiropalum ypsilon</i>	Brunhes	● ϕ -62.1 γ -1.87 ● ϕ -62.4 γ -1.72 ● ϕ -63.1 γ -1.82 IC-8-31 OC-9-38	1 2 3 4 5 6 7 CC					NANNOFOSSIL OOZE Section 1, 5-15 cm, is slightly disturbed. Remainder of core is undisturbed. Major lithology: NANNOFOSSIL OOZE. Alternating light and dark bands of light greenish gray (10Y 7/2, 8/2) to dark greenish gray (10Y 5/4, 5/2, 4/2) and olive (5Y 4/4). Slight to moderate burrow-mottling throughout. Dark layers contain 10-20% more terrigenous silty clay than do light layers. SMEAR SLIDE SUMMARY (%): <table border="1"> <tr> <td></td> <td>1, 70</td> <td>6, 50</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> </tr> </table> TEXTURE: Sand — 5 Silt 20 15 Clay 80 80 COMPOSITION: Clay 10 5 Dolomite — Tr Foraminifers Tr 10 Inorganic calcite 5 10 Nannofossils 80 75 Quartz 5 Tr Radiolarians — Tr		1, 70	6, 50	D		D
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PLEISTOCENE N23															



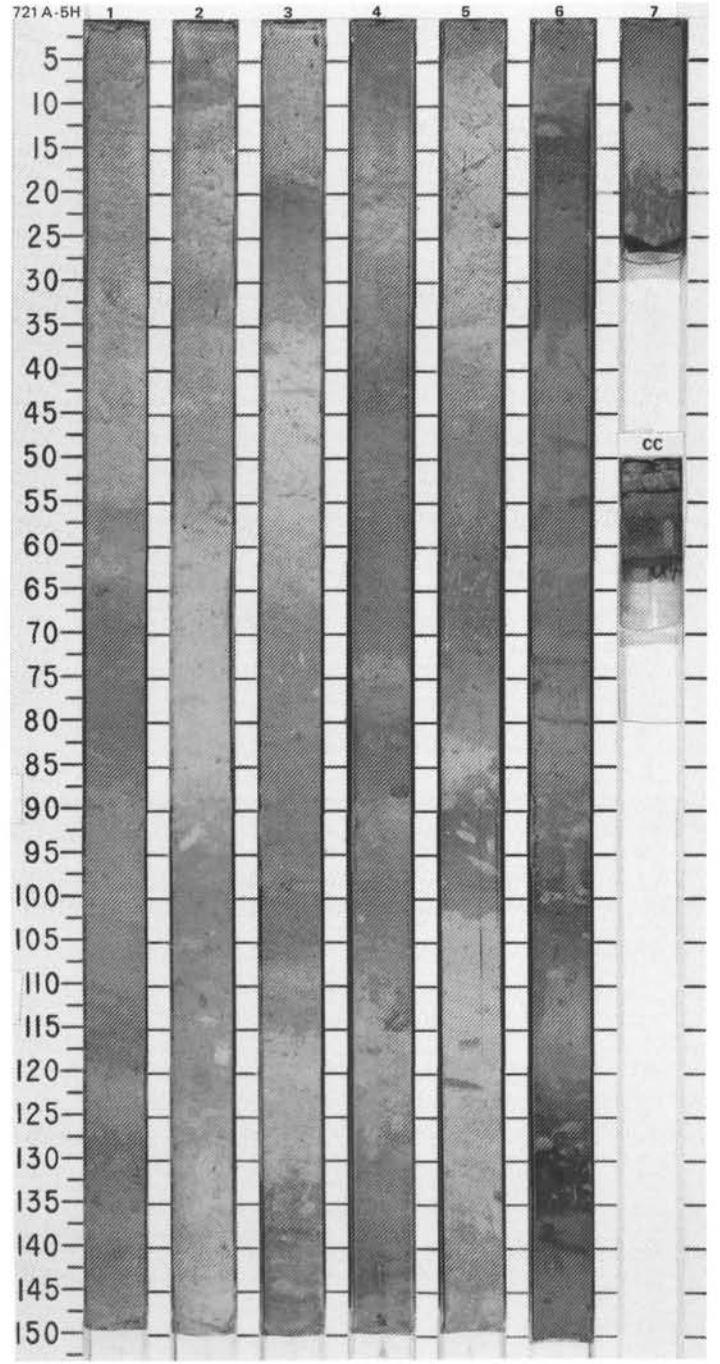
SITE 721 HOLE A CORE 3H CORED INTERVAL 1964.3-1974.0 mbsl; 19.5-29.2 mbsf



SITE 721 HOLE A CORE 4H CORED INTERVAL 1974.0-1983.7 mbsl; 29.2-38.9 mbsf

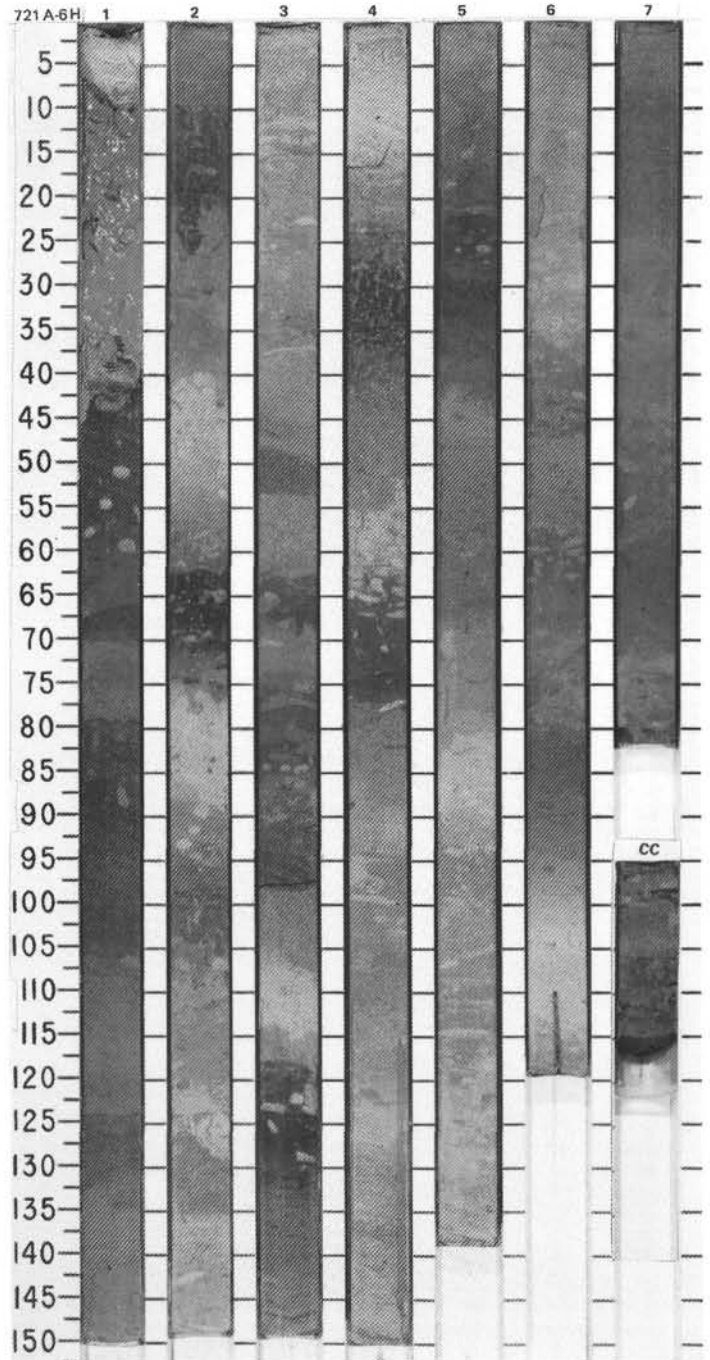


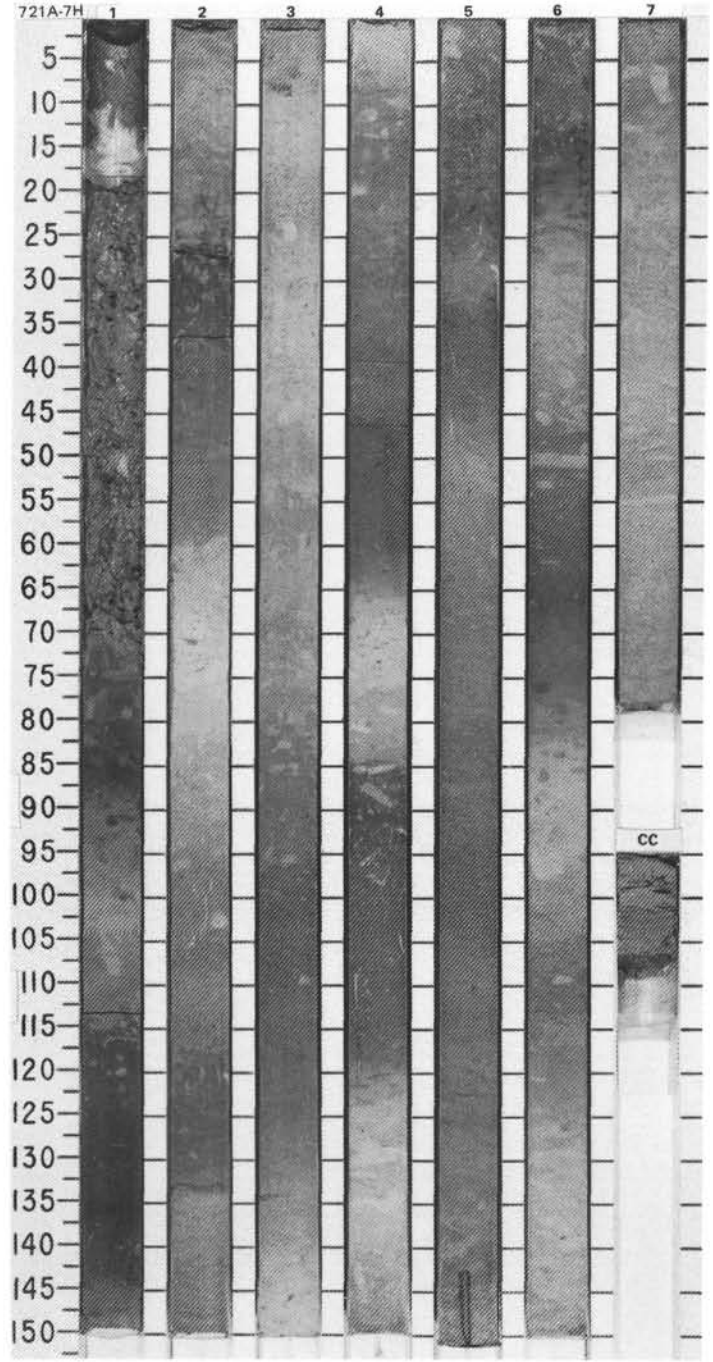
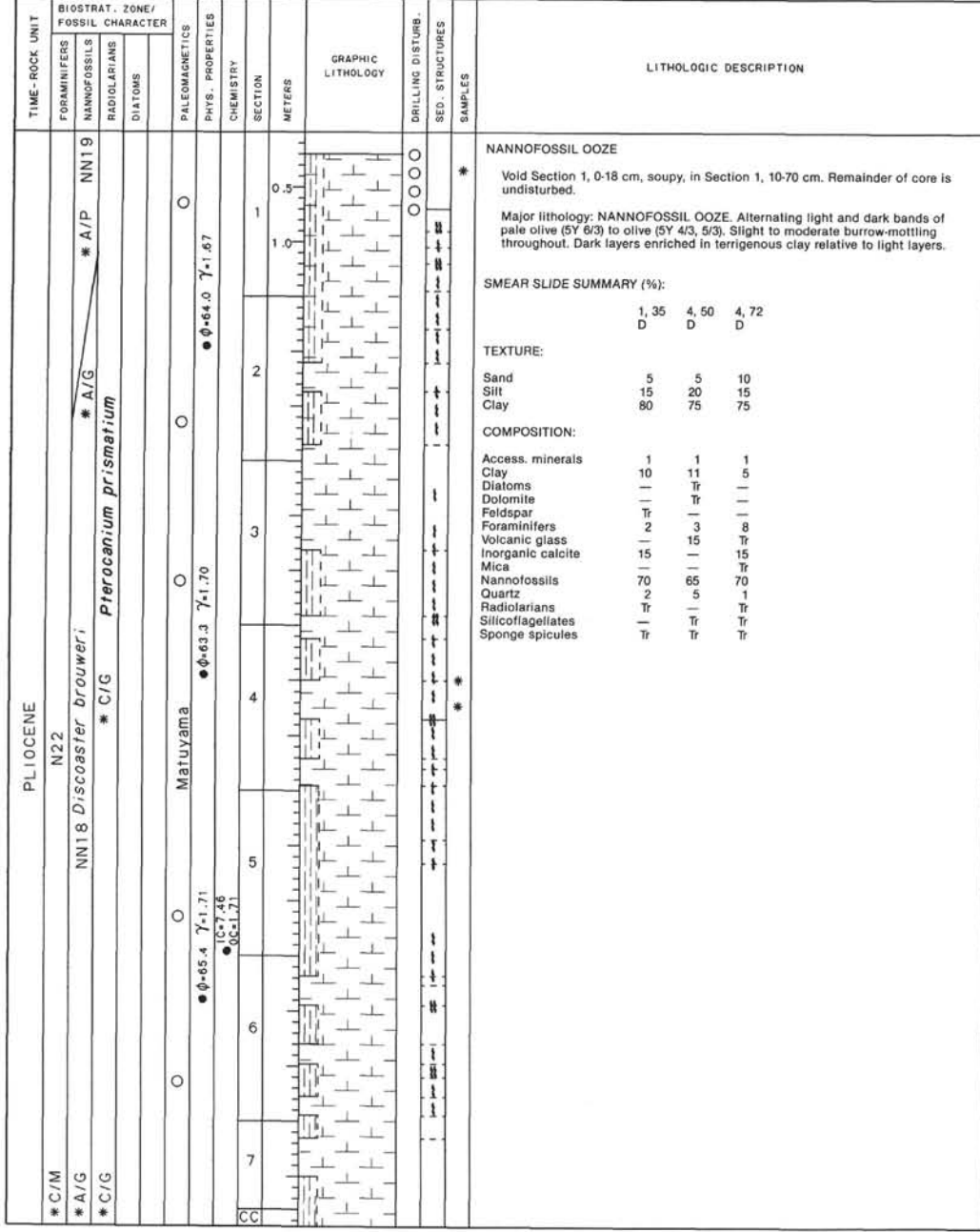
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																																																										
PLEISTOCENE	*C/P													<p>NANNOFOSSIL OOZE</p> <p>No drilling disturbance.</p> <p>Major lithology: NANNOFOSSIL OOZE. Alternating light and dark bands of light olive gray (5Y 6/2) to light greenish gray (10Y 5/2, 6/2) and olive (5Y 4/3, 5/3). Slight to moderate burrow-mottling throughout. Dark layers enriched in terrigenous components relative to light layers.</p> <p>Minor lithology: Marly nannofossil ooze, dark olive gray (5Y 3/2), Section 6, 120-135 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>5,</td> <td>6,</td> <td>6,</td> </tr> <tr> <td></td> <td>27</td> <td>15</td> <td>131</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>1</td> <td>1</td> <td>10</td> </tr> <tr> <td>Silt</td> <td>7</td> <td>15</td> <td>35</td> </tr> <tr> <td>Clay</td> <td>92</td> <td>84</td> <td>55</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. minerals</td> <td>Tr</td> <td>Tr</td> <td>2</td> </tr> <tr> <td>Clay</td> <td>-</td> <td>13</td> <td>20</td> </tr> <tr> <td>Diatoms</td> <td>Tr</td> <td>21</td> <td>-</td> </tr> <tr> <td>Dolomite</td> <td>Tr</td> <td>-</td> <td>Tr</td> </tr> <tr> <td>Feldspar</td> <td>-</td> <td>-</td> <td>2</td> </tr> <tr> <td>Foraminifers</td> <td>Tr</td> <td>1</td> <td>1</td> </tr> <tr> <td>Volcanic glass</td> <td>1</td> <td>-</td> <td>Tr</td> </tr> <tr> <td>Inorganic calcite</td> <td>5</td> <td>10</td> <td>30</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>1</td> <td>-</td> </tr> <tr> <td>Nannofossils</td> <td>92</td> <td>70</td> <td>35</td> </tr> <tr> <td>Quartz</td> <td>1</td> <td>Tr</td> <td>8</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>2</td> <td>Tr</td> </tr> <tr> <td>Silicoflagellates</td> <td>-</td> <td>1</td> <td>-</td> </tr> <tr> <td>Sponge spicules</td> <td>Tr</td> <td>1</td> <td>-</td> </tr> </table>		5,	6,	6,		27	15	131		D	D	D	Sand	1	1	10	Silt	7	15	35	Clay	92	84	55	Access. minerals	Tr	Tr	2	Clay	-	13	20	Diatoms	Tr	21	-	Dolomite	Tr	-	Tr	Feldspar	-	-	2	Foraminifers	Tr	1	1	Volcanic glass	1	-	Tr	Inorganic calcite	5	10	30	Mica	Tr	1	-	Nannofossils	92	70	35	Quartz	1	Tr	8	Radiolarians	Tr	2	Tr	Silicoflagellates	-	1	-	Sponge spicules	Tr	1	-
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SITE 721 HOLE A CORE 6H CORED INTERVAL 1993.3-2002.6 mbsl; 48.5-57.8 mbsf

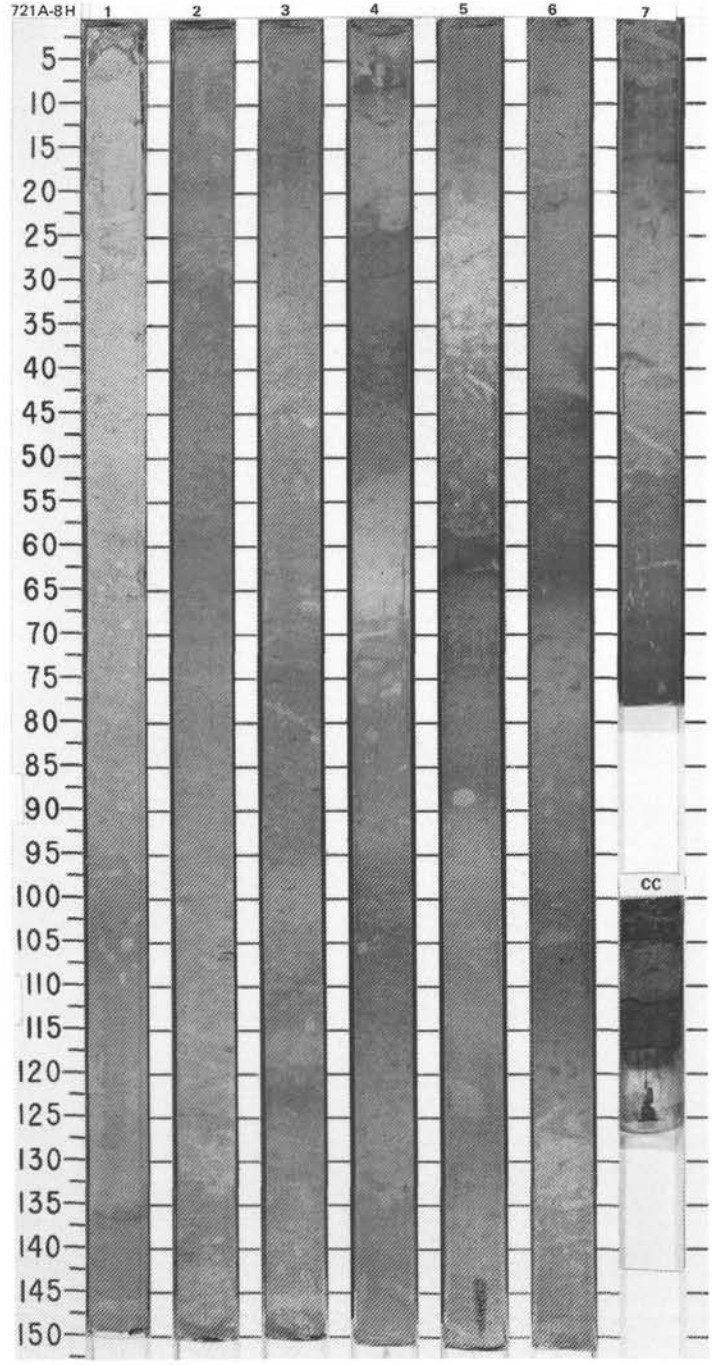
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION								
PLEISTOCENE	* A/M-P	* A/M	<i>Pterocanium prismatium</i>			O	●φ-62.2 γ-1.68		1	0.5 1.0		O O O	NANNOFOSSIL OOZE Section 1, 10-40 cm, soupy. Remainder of core undisturbed. Major lithology: NANNOFOSSIL OOZE. Alternating light and dark bands of light olive gray (5Y 6/2) to pale olive (5Y 6/3) to olive gray (5Y 5/2, 6/2) and olive (5Y 4/3, 4/4). Slight to moderate burrow-mottling throughout. Dark layers contain 10-20% more terrigenous clay than do light layers. Minor lithology: Foraminifer sand. Concentrated in a layer in Section 1, 69 cm, and in burrows in Section 2, 17, 63, and 66 cm.									
									2													
PLIOCENE	N22 * C/G	NN19 <i>Pseudoemiliania lacunosa</i>	<i>Pterocanium prismatium</i>			O	●φ-60.0 γ-1.69		3				* PP OG IW	SMEAR SLIDE SUMMARY (%): <table border="1"><tr><td></td><td>4, 9</td><td>5, 61</td><td>7, 65</td></tr><tr><td>D</td><td>D</td><td>D</td><td>D</td></tr></table> TEXTURE: Sand: — — 15 Silt: 20 10 35 Clay: 80 90 50 COMPOSITION: Clay: — — 8 Diatoms: — 2 Tr Dolomite: Tr Tr Tr Feldspar: — Tr — Foraminifers: 5 7 15 Inorganic calcite: 5 5 25 Mica: 10 — — Nannofossils: 75 80 50 Quartz: 1 5 — Radiolarians: — 2 1 Silicoflagellates: — 1 — Sponge spicules: — 2 Tr		4, 9	5, 61	7, 65	D	D	D	D
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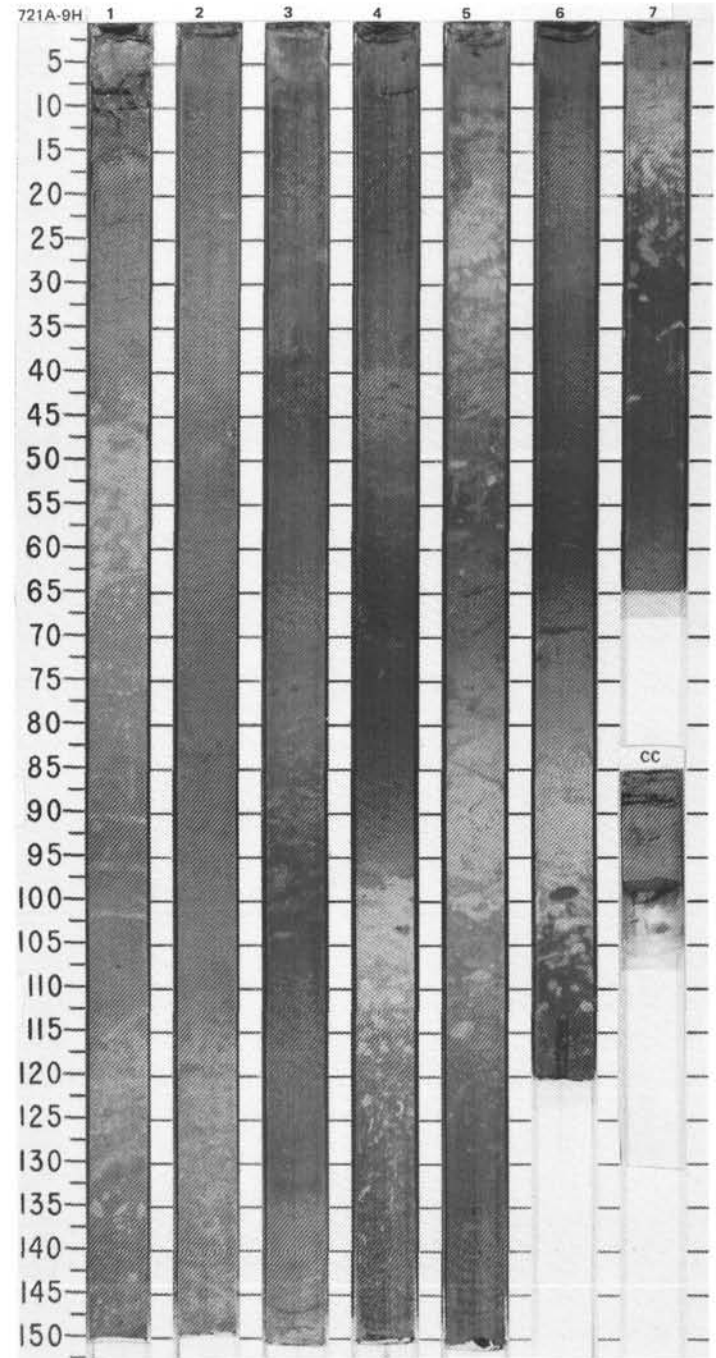
SITE 721 HOLE A CORE 8H CORED INTERVAL 2012.1-2021.6 mbsl; 67.3-76.8 mbsf

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																																																										
PLIOCENE											<p>NANNOFOSSIL OOZE</p> <p>Section 1, 0-2 cm, soupy. Remainder of core is undisturbed. Major lithology: NANNOFOSSIL OOZE. Alternating light and dark bands of light gray (SY 7/2) to light olive gray (SY 8/2) and olive (SY 4/3, 5/3, 4/4). Slight to moderate burrow-mottling throughout. Dark layers enriched in terrigenous clay relative to light layers.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>4, 60</td> <td>6, 106</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>—</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>15</td> <td>15</td> </tr> <tr> <td>Clay</td> <td>80</td> <td>85</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. minerals</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Diatoms</td> <td>—</td> <td>1</td> </tr> <tr> <td>Feldspar</td> <td>1</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>5</td> <td>—</td> </tr> <tr> <td>Volcanic glass</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Inorganic calcite</td> <td>10</td> <td>10</td> </tr> <tr> <td>Mica</td> <td>2</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>80</td> <td>84</td> </tr> <tr> <td>Quartz</td> <td>1</td> <td>2</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>1</td> </tr> <tr> <td>Silicoflagellates</td> <td>Tr</td> <td>2</td> </tr> <tr> <td>Sponge spicules</td> <td>Tr</td> <td>—</td> </tr> </table>		4, 60	6, 106	D	D	D	Sand	—	5	Silt	15	15	Clay	80	85	Access. minerals	1	Tr	Diatoms	—	1	Feldspar	1	—	Foraminifers	5	—	Volcanic glass	Tr	Tr	Inorganic calcite	10	10	Mica	2	—	Nannofossils	80	84	Quartz	1	2	Radiolarians	Tr	1	Silicoflagellates	Tr	2	Sponge spicules	Tr	—
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* A/G	NN18 <i>Discoaster brouweri</i>					2																																																								
* C/G	* C/G	<i>Pterocanium prismatium</i>				3																																																								
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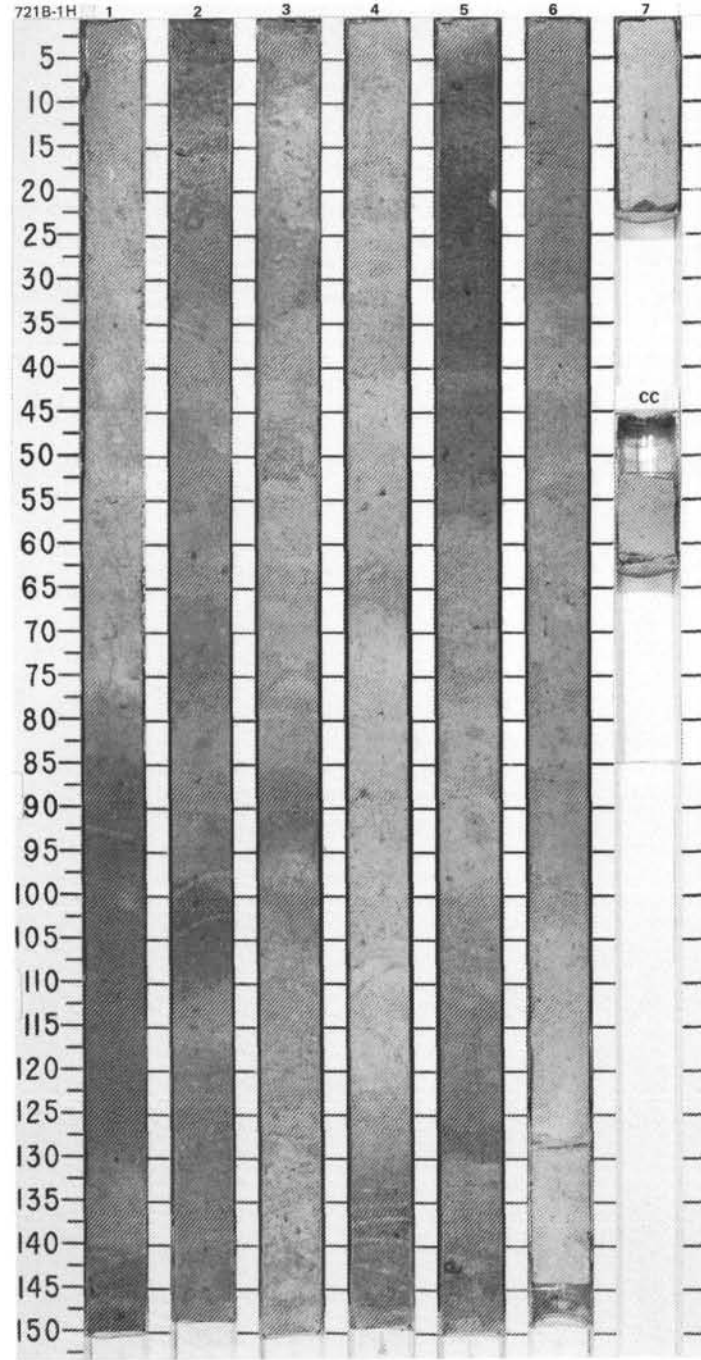
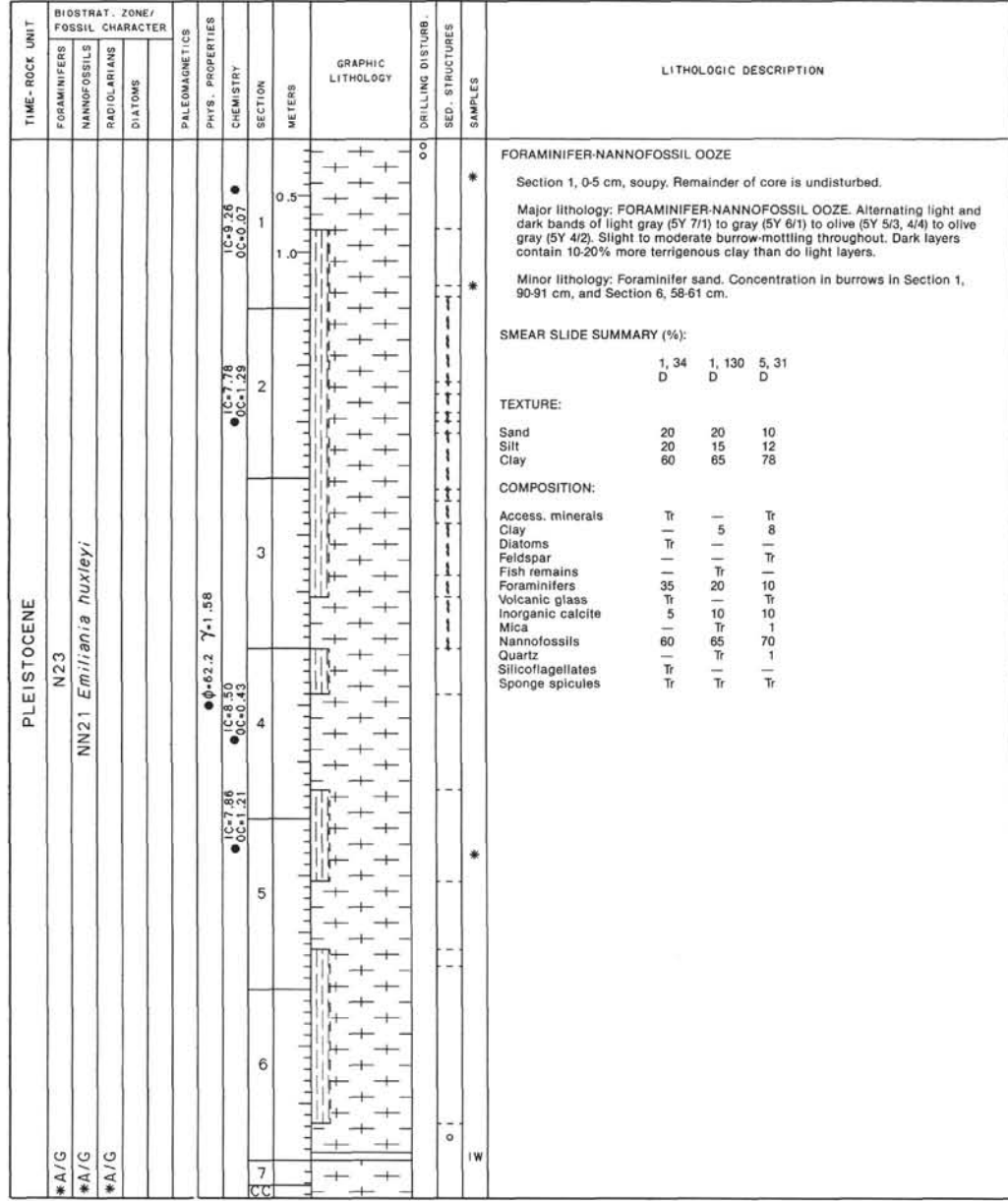
SITE 721 HOLE A CORE 9H CORED INTERVAL 2021.6-2031.2 mbsl; 76.8-86.4 mbsf

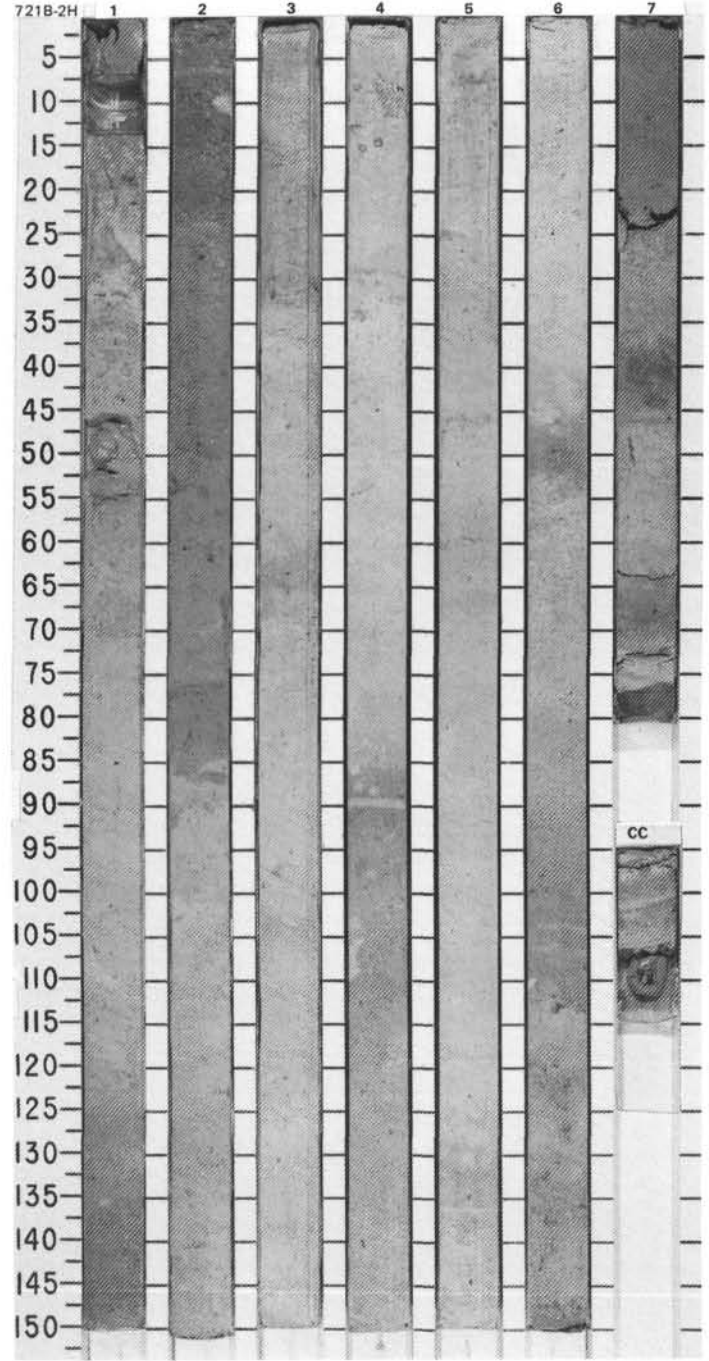
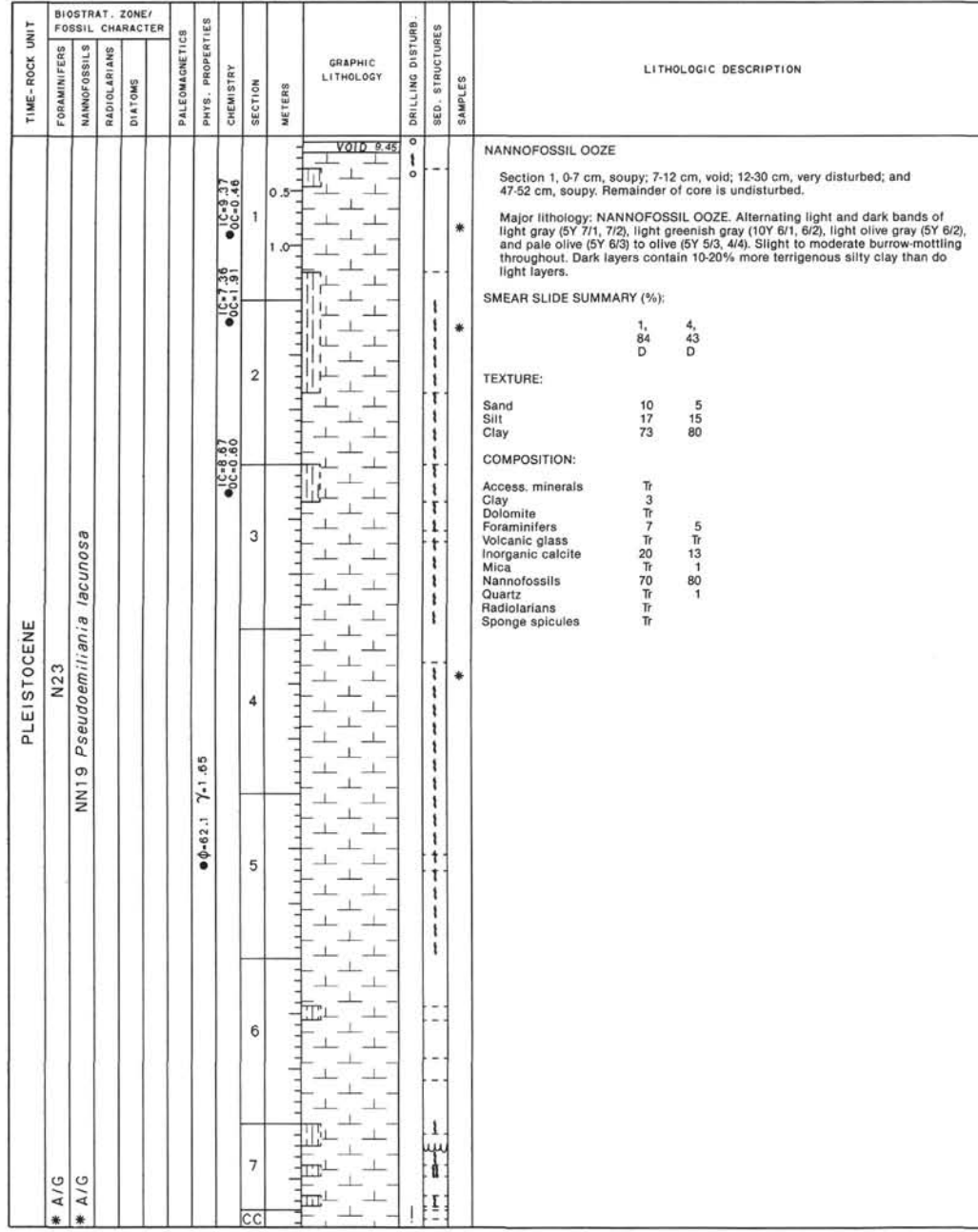
TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																								
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* C/M	N21								<p>NANNOFOSSIL OOZE</p> <p>Section 1, 0.7 cm, slightly disturbed, 7-10 cm, soupy. Remainder of core is undisturbed.</p> <p>Major lithology: NANNOFOSSIL OOZE. Alternating light and dark bands of light olive gray (5Y 6/2) to olive (5Y 4/3, 5/3, 4/4) and olive gray (5Y 4/2). Slight to moderate burrow-mottling throughout. Dark layers enriched in terrigenous clay relative to light layers.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>3, 55</td> <td>4, 78</td> <td>5, 91</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Silt</td> <td>15</td> <td>3</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>85</td> <td>97</td> <td>95</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. minerals</td> <td>-</td> <td>Tr</td> <td>-</td> </tr> <tr> <td>Clay</td> <td>5</td> <td>-</td> <td>3</td> </tr> <tr> <td>Diatoms</td> <td>-</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Dolomite</td> <td>-</td> <td>Tr</td> <td>-</td> </tr> <tr> <td>Foraminifers</td> <td>3</td> <td>3</td> <td>1</td> </tr> <tr> <td>Volcanic glass</td> <td>-</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Inorganic calcite</td> <td>10</td> <td>2</td> <td>5</td> </tr> <tr> <td>Mica</td> <td>1</td> <td>Tr</td> <td>-</td> </tr> <tr> <td>Nannofossils</td> <td>80</td> <td>93</td> <td>90</td> </tr> <tr> <td>Pore space</td> <td>1</td> <td>-</td> <td>-</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Silicoflagellates</td> <td>Tr</td> <td>1</td> <td>1</td> </tr> <tr> <td>Sponge spicules</td> <td>-</td> <td>Tr</td> <td>-</td> </tr> </table>		3, 55	4, 78	5, 91	D		D	D	Silt	15	3	5	Clay	85	97	95	Access. minerals	-	Tr	-	Clay	5	-	3	Diatoms	-	Tr	Tr	Dolomite	-	Tr	-	Foraminifers	3	3	1	Volcanic glass	-	Tr	Tr	Inorganic calcite	10	2	5	Mica	1	Tr	-	Nannofossils	80	93	90	Pore space	1	-	-	Quartz	Tr	1	Tr	Radiolarians	Tr	Tr	Tr	Silicoflagellates	Tr	1	1	Sponge spicules	-	Tr	-
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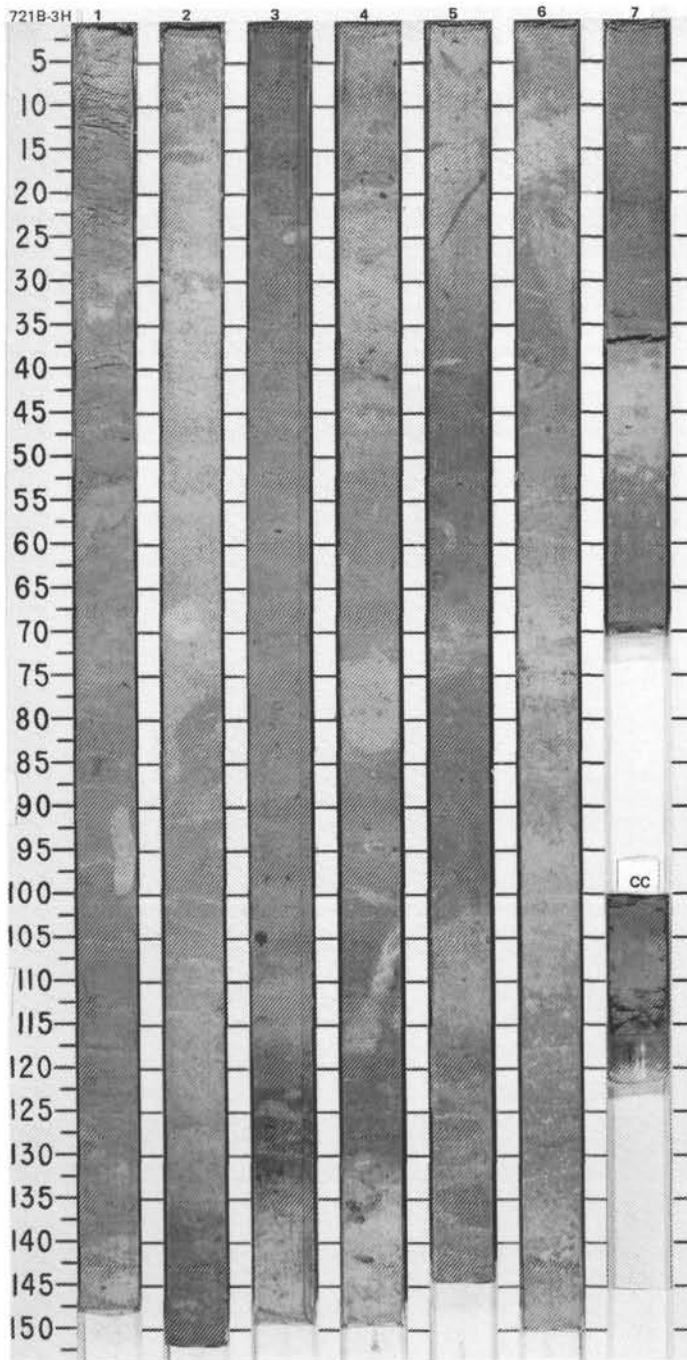
SITE 721

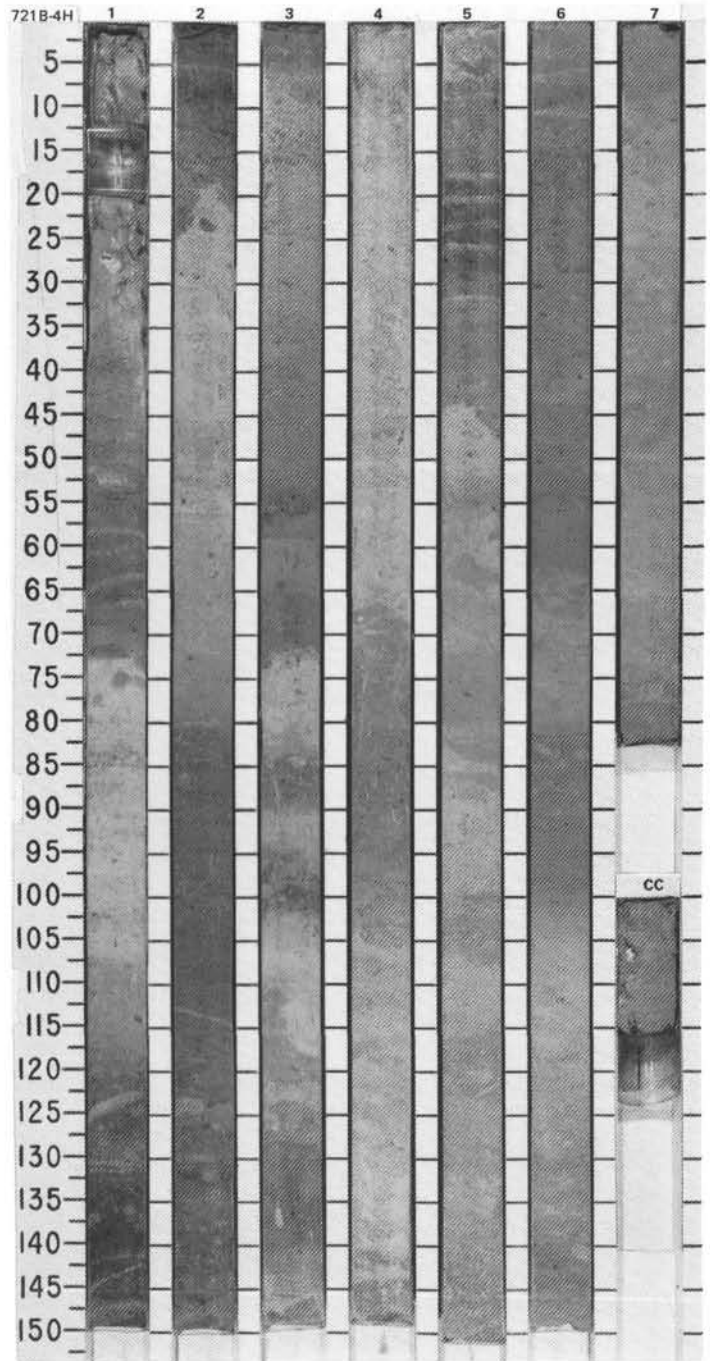
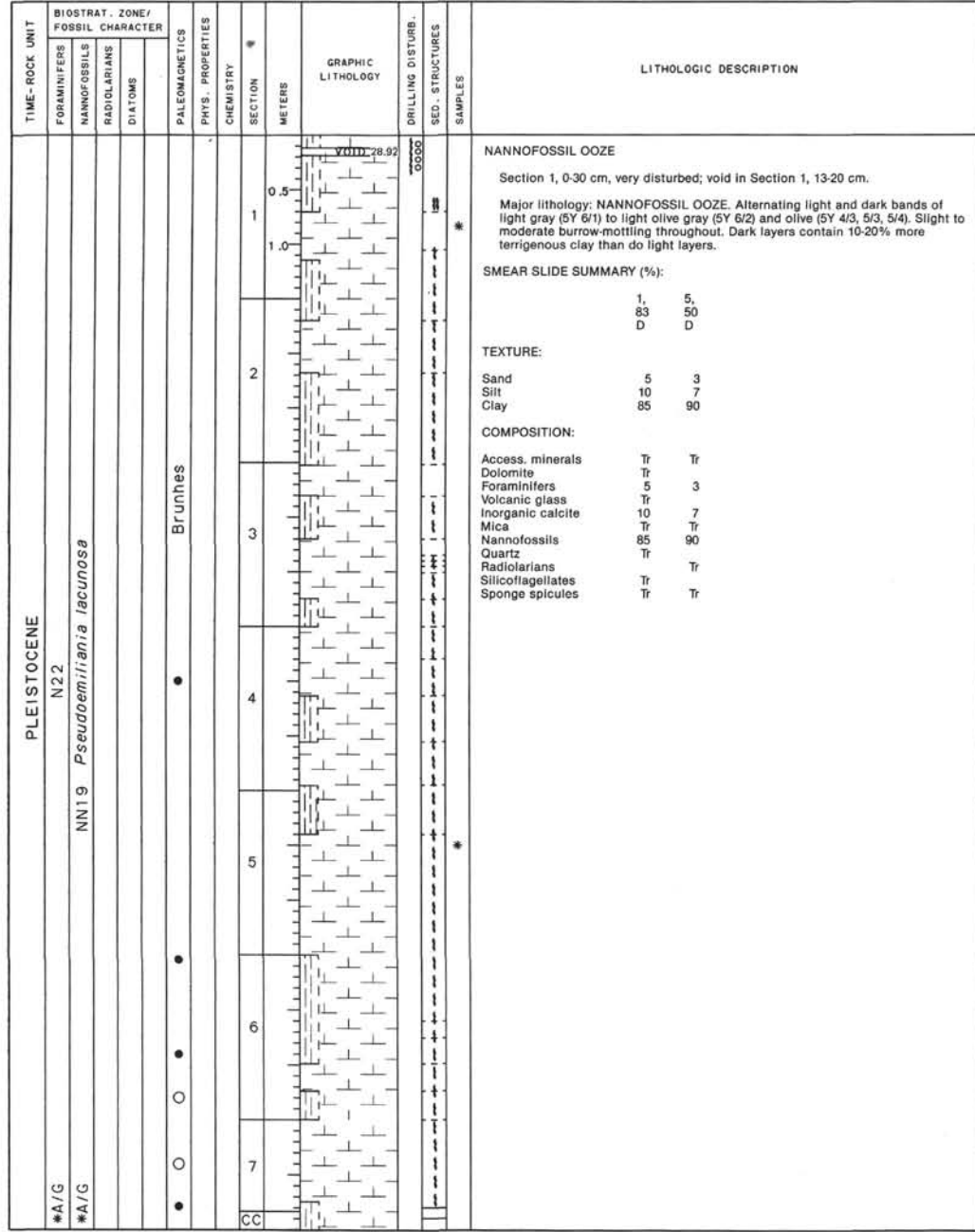
SITE 721 HOLE B CORE 1H CORED INTERVAL 1944.8-1954.2 mbsl; 0.0-9.4 mbsf





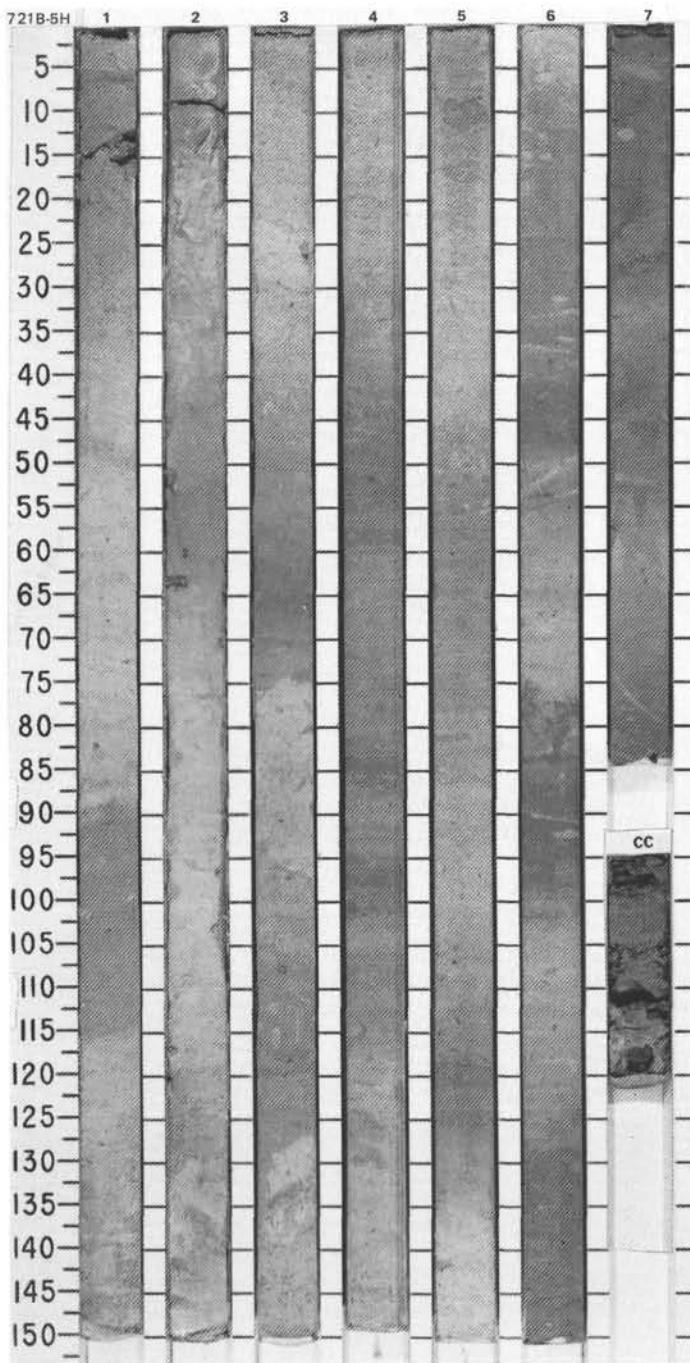
TIME - ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																						
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																
PLEISTOCENE	N23	NN19 <i>Pseudoemiliania lacunosa</i>							0.5				<p>NANNOFOSSIL OOZE</p> <p>No drilling disturbance.</p> <p>Major lithology: NANNOFOSSIL OOZE. Alternating light and dark bands of light olive gray (5Y 6/2) to pale olive (5Y 6/3) and olive (5Y 5/3). Slight to moderate burrow-mottling throughout. Dark layers are enriched in terrigenous clay compared to light layers. Minor lithology: Foraminifer sand. Concentrated as lags in Section 4, 15-20, 36-42, and 135-145 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>3, 57</td> <td>5, 85</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>5</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>10</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>85</td> <td>85</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Access. minerals</td> <td>Tr</td> <td></td> </tr> <tr> <td>Foraminifers</td> <td>5</td> <td>5</td> </tr> <tr> <td>Volcanic glass</td> <td>Tr</td> <td></td> </tr> <tr> <td>Inorganic glass</td> <td>10</td> <td>10</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td></td> </tr> <tr> <td>Nannofossils</td> <td>85</td> <td>85</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td></td> </tr> <tr> <td>Sponge spicules</td> <td></td> <td>Tr</td> </tr> </table>		3, 57	5, 85		D	D	Sand	5	5	Silt	10	10	Clay	85	85	Access. minerals	Tr		Foraminifers	5	5	Volcanic glass	Tr		Inorganic glass	10	10	Mica	Tr		Nannofossils	85	85	Radiolarians	Tr		Sponge spicules		Tr
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* A/G									1.0																																											
* A/G					$\phi=61.7 \gamma=1.71$				1.5																																											
						$IC=7.74$																																														
						$CC=0.14$																																														



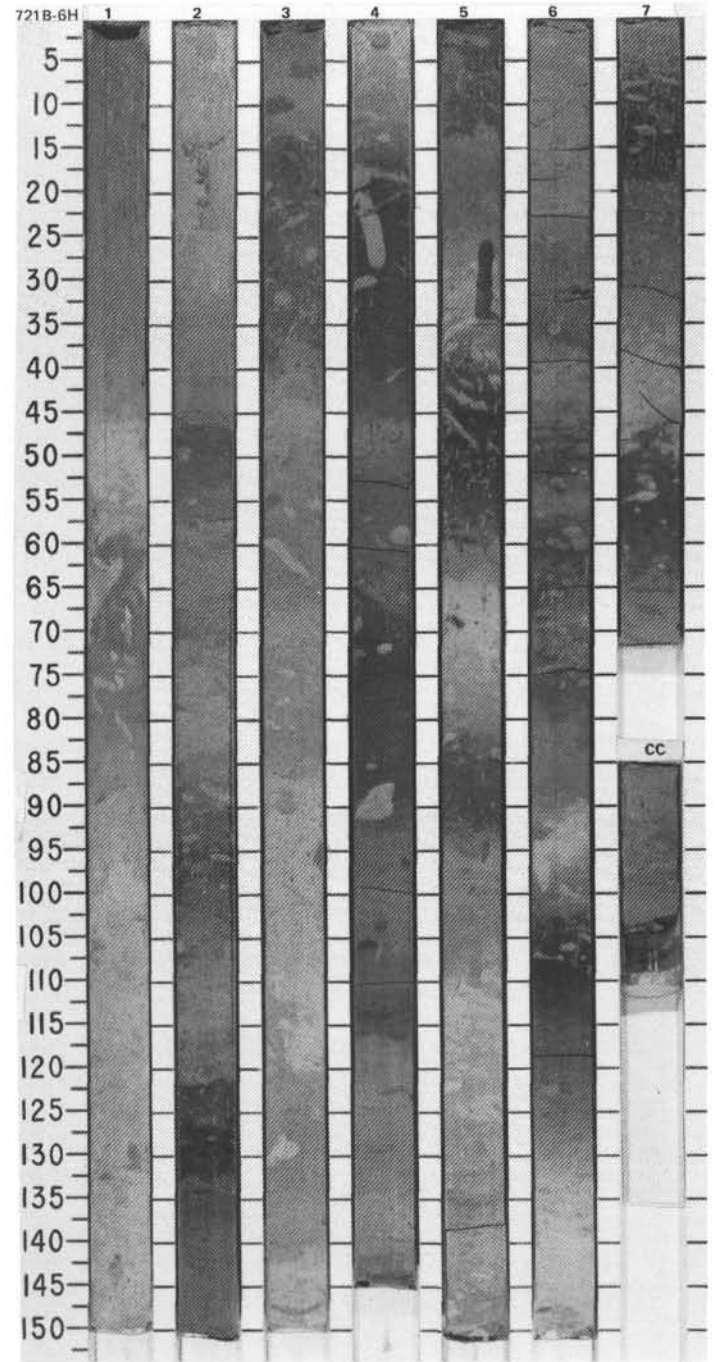


SITE 721 HOLE B CORE 5H CORED INTERVAL 1983.3-1992.9 mbsl; 38.5-48.1 mbsf

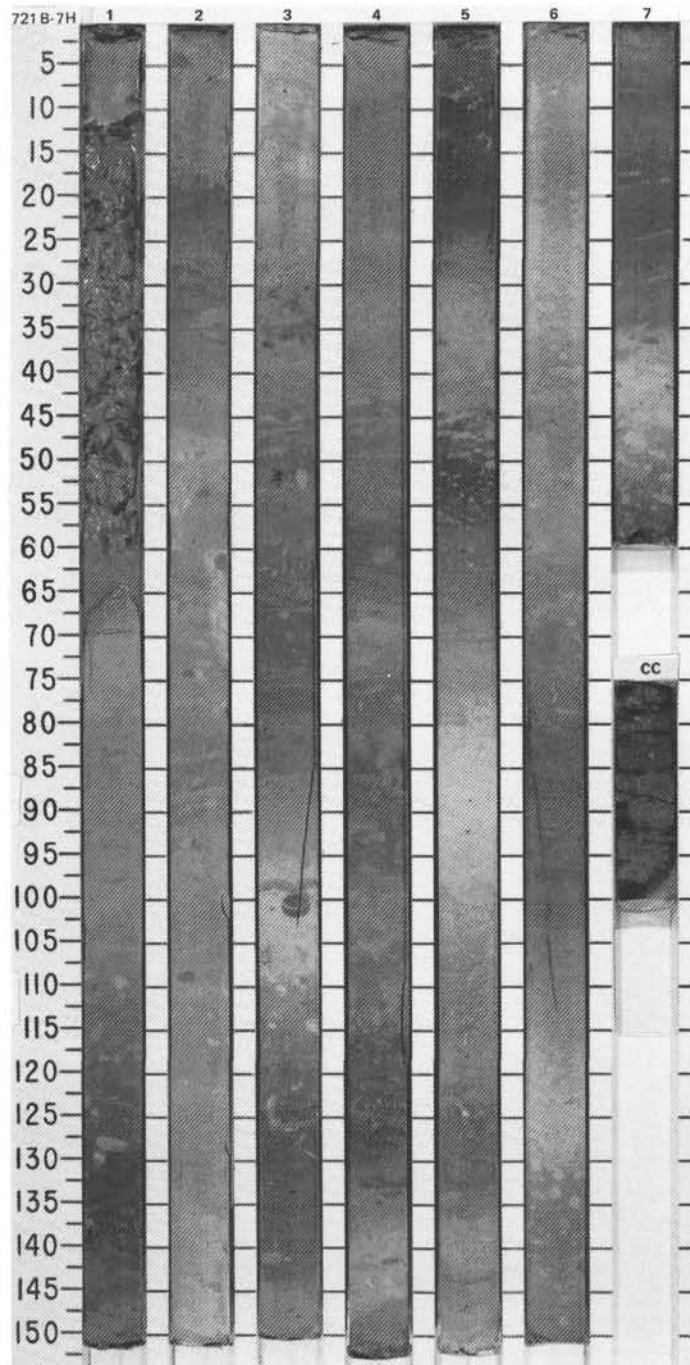
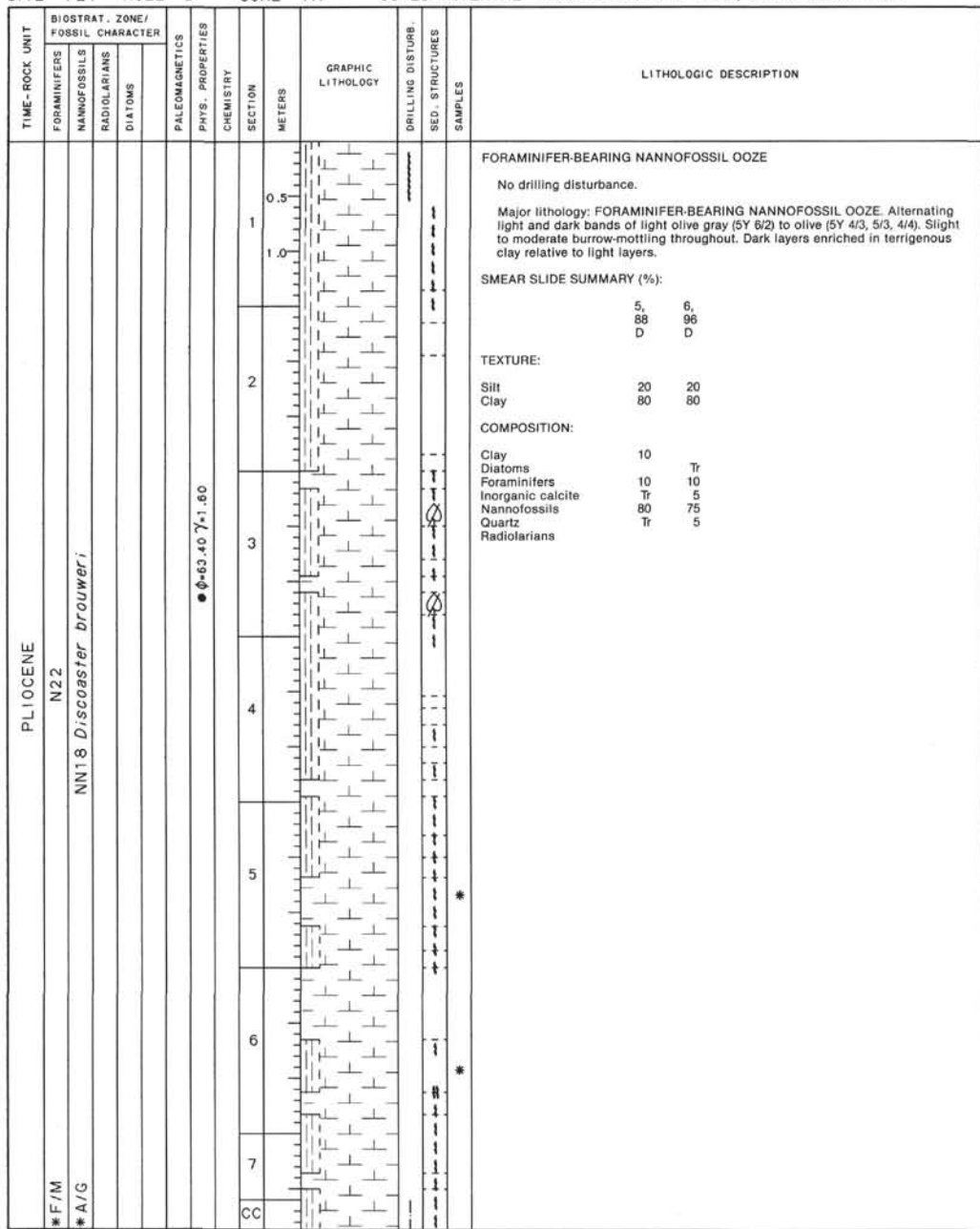
TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																													
FORAMINIFERS	NANNOFOSSILS																																																							
		RADIOLARIANS																																																						
		DIATOMS																																																						
*A/G	PLEISTOCENE	N22									<p>NANNOFOSSIL OOZE</p> <p>No drilling disturbance.</p> <p>Major lithology: NANNOFOSSIL OOZE. Alternating light and dark bands of light gray (5Y 7/1, 7/2) and light olive gray (5Y 6/2) to light greenish gray (10Y 6/1) and olive (5Y 5/3). Slight to moderate burrow-mottling throughout. Dark layers enriched in terrigenous components relative to light layers.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 67</td> <td>4, 51</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>1</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>25</td> <td>25</td> </tr> <tr> <td>Clay</td> <td>74</td> <td>70</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. minerals</td> <td>Tr</td> <td></td> </tr> <tr> <td>Diatoms</td> <td></td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td>3</td> <td>7</td> </tr> <tr> <td>Volcanic glass</td> <td>Tr</td> <td></td> </tr> <tr> <td>Inorganic calcite</td> <td>10</td> <td>8</td> </tr> <tr> <td>Nannofossils</td> <td>85</td> <td>82</td> </tr> <tr> <td>Quartz</td> <td>2</td> <td>2</td> </tr> <tr> <td>Radiolarians</td> <td></td> <td>1</td> </tr> <tr> <td>Silicoflagellates</td> <td></td> <td>Tr</td> </tr> <tr> <td>Sponge spicules</td> <td></td> <td>Tr</td> </tr> </table>		1, 67	4, 51	D	D	D	Sand	1	5	Silt	25	25	Clay	74	70	Access. minerals	Tr		Diatoms		Tr	Foraminifers	3	7	Volcanic glass	Tr		Inorganic calcite	10	8	Nannofossils	85	82	Quartz	2	2	Radiolarians		1	Silicoflagellates		Tr	Sponge spicules		Tr
	1, 67	4, 51																																																						
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*A/G		NN19 <i>Pseudoemiliania lacunosa</i>																																																						

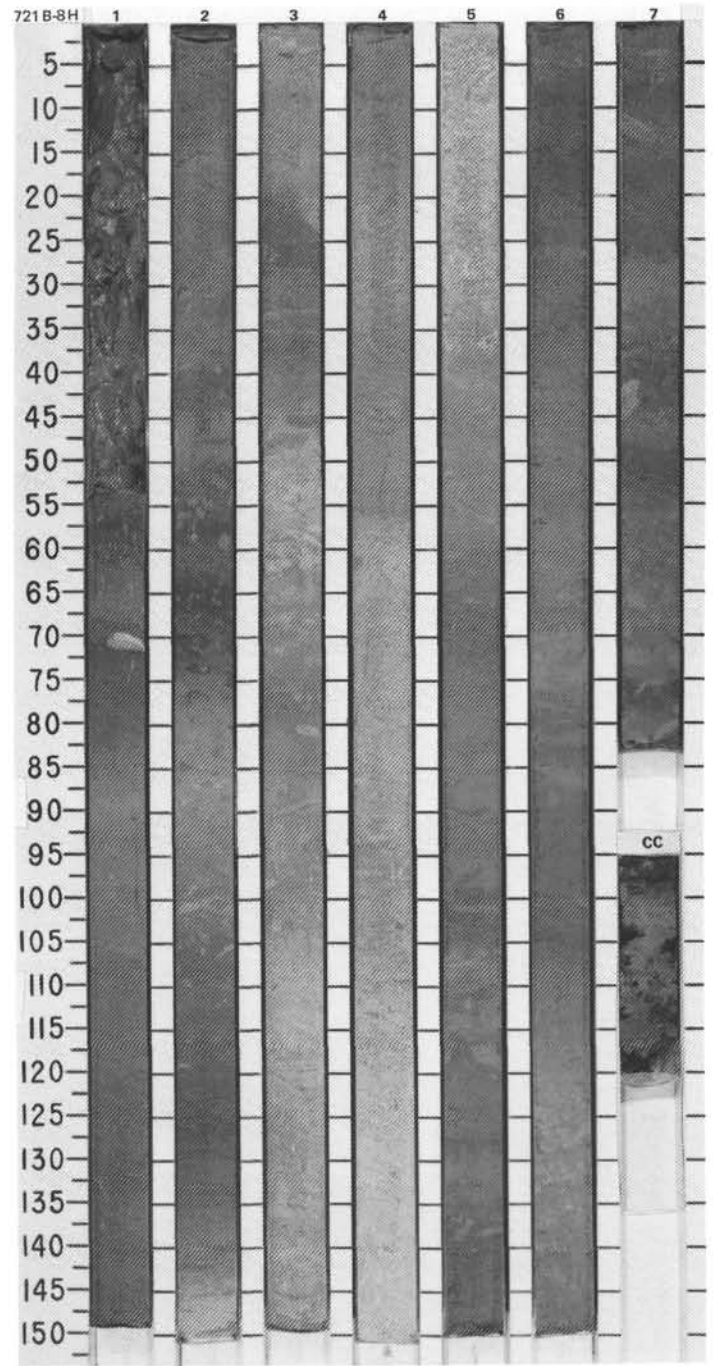
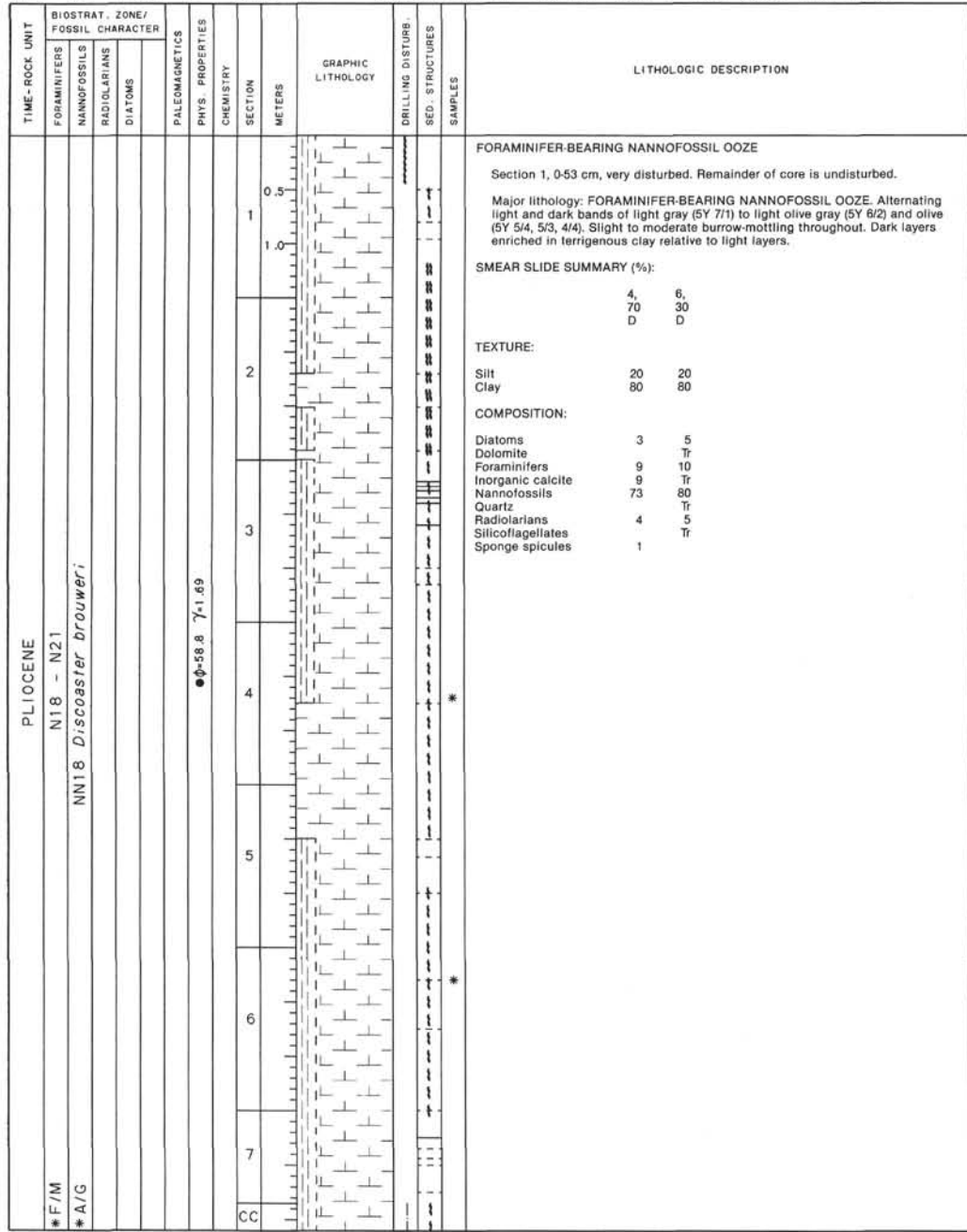


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																										
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																				
PLEISTOCENE														<p>FORAMINIFER-BEARING NANNOFOSSIL OOZE</p> <p>No drilling disturbance.</p> <p>Major lithology: FORAMINIFER-BEARING NANNOFOSSIL OOZE. Alternating light and dark bands of light olive gray (SY 6/2) and pale olive (SY 6/3) to olive gray (SY 5/2, 4/2) and olive (SY 4/3, 5/3). Slight to moderate burrow-mottling throughout. Dark layers contain 10-20% more terrigenous clay than do light layers.</p> <p>Minor lithology: Foraminifer-bearing marly nannofossil ooze, dark olive gray (SY 3/2), Section 2, 122-132 cm, and Section 7, 6-20 and 35-48 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>2, 138</td> <td>5, 69</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>7</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>8</td> <td>14</td> </tr> <tr> <td>Clay</td> <td>85</td> <td>81</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Access. minerals</td> <td>1</td> <td></td> </tr> <tr> <td>Dolomite</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td>7</td> <td>7</td> </tr> <tr> <td>Volcanic glass</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Inorganic calcite</td> <td>3</td> <td>3</td> </tr> <tr> <td>Mica</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>80</td> <td>87</td> </tr> <tr> <td>Quartz</td> <td>2</td> <td></td> </tr> <tr> <td>Siliceous frag.</td> <td>5</td> <td>3</td> </tr> </table>		2, 138	5, 69	D	D	D	Sand	7	5	Silt	8	14	Clay	85	81	Access. minerals	1		Dolomite	Tr	Tr	Foraminifers	7	7	Volcanic glass	1	Tr	Inorganic calcite	3	3	Mica	1	Tr	Nannofossils	80	87	Quartz	2		Siliceous frag.	5	3
	2, 138	5, 69																																																						
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	NN19	<i>Pseudoeccella lacunosa</i>																																																						
					$\phi = 0.33$	$\gamma = 1.65$																																																		



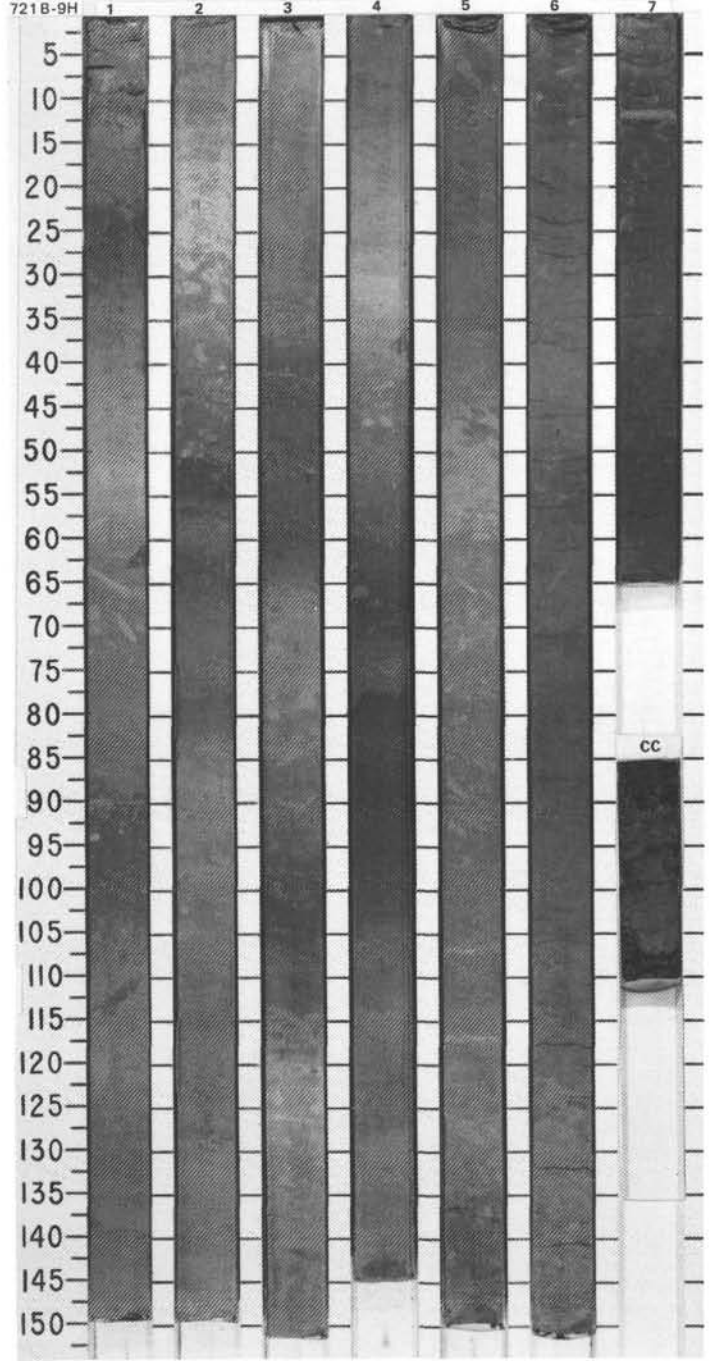
SITE 721 HOLE B CORE 7H CORED INTERVAL 2002.2-2011.7 mbsf; 57.4-66.9 mbsf





SITE 721 HOLE B CORE 9H CORED INTERVAL 2021.2-2030.8 mbsf; 76.4-86.0 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	DIATOMS																																		
PLIOCENE																																					
* C/M	NN18	* A/M		●			1	0.5					<p>FORAMINIFER-BEARING NANNOFOSSIL OOZE</p> <p>Section 1, 0-7 cm, slightly disturbed, 7-10 cm, soupy. Remainder of core is undisturbed.</p> <p>Major lithology: FORAMINIFER-BEARING NANNOFOSSIL OOZE. Alternating light and dark bands of light olive gray (5Y 6/2) to olive (5Y 4/3, 5/3, 4/4) and olive gray (5Y 4/2). Slight to moderate burrow-mottling throughout. Dark layers enriched in terrigenous clay relative to light layers.</p> <p>Minor lithology: Marly nannofossil ooze, dark olive gray (5Y 3/2). Section 1, 10-28 and 90-100 cm, and Section 3, 35-60 cm. Moderate burrow-mottling.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr><td></td><td>3</td></tr> <tr><td></td><td>61</td></tr> <tr><td></td><td>D</td></tr> </table> <p>TEXTURE:</p> <table border="0"> <tr><td>Silt</td><td>15</td></tr> <tr><td>Clay</td><td>85</td></tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr><td>Clay</td><td>35</td></tr> <tr><td>Foraminifers</td><td>10</td></tr> <tr><td>Inorganic calcite</td><td>5</td></tr> <tr><td>Mica</td><td>Tr</td></tr> <tr><td>Nannofossils</td><td>40</td></tr> <tr><td>Radiolarians</td><td>Tr</td></tr> <tr><td>Unspec. minerals</td><td>10</td></tr> </table>		3		61		D	Silt	15	Clay	85	Clay	35	Foraminifers	10	Inorganic calcite	5	Mica	Tr	Nannofossils	40	Radiolarians	Tr	Unspec. minerals	10
	3																																				
	61																																				
	D																																				
Silt	15																																				
Clay	85																																				
Clay	35																																				
Foraminifers	10																																				
Inorganic calcite	5																																				
Mica	Tr																																				
Nannofossils	40																																				
Radiolarians	Tr																																				
Unspec. minerals	10																																				
* A/G	NN18 - N21	* NN16 <i>Discoscoaster surculus</i>		○			2	1.0																													
* C/G	NN17 <i>Discoscoaster pentaradiatus</i>	* C/G <i>Spongaster pentas</i>		○			3																														
				○	$\phi=63.2 \gamma=1.66$		4																														
				○			5																														
				○			6																														
				○			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										
PLIOCENE												
* C/M	N18 - N21											
* A/G	NN17 <i>Discoaster pentaradiatus</i>											
* C/G	* FIM <i>Spongaster pentas</i>											
			Gauss	•								
			•	$\phi=63.1$								
			•	$\gamma=1.63$								
			•	$\phi=64.9$								
			•	$\gamma=1.62$								
			•	$\phi=65.6$								
			•	$\gamma=1.60$								
			•	CC=9.82								
			•	OC=0.96								
			O									

NANNOFOSSIL OOZE to FORAMINIFER-BEARING NANNOFOSSIL OOZE

Section 5, 70-105 cm, slightly disturbed. Remainder of core is undisturbed

Major lithology: NANNOFOSSIL OOZE to FORAMINIFER-BEARING NANNOFOSSIL OOZE. Alternating light and dark bands of light olive gray (5Y 6/2) to olive (5Y 4/3, 5/3, 4/4) and olive gray (5Y 4/2). Slight to moderate burrow-mottling throughout. Dark layers enriched in terrigenous clay relative to light layers.

Minor lithology: Marly nannofossil ooze, dark olive gray (5Y 3/2). Section 1, 35-72 and 120-150 cm, and Section 6, 43-74 cm. Moderate burrow-mottling.

SMEAR SLIDE SUMMARY (%):

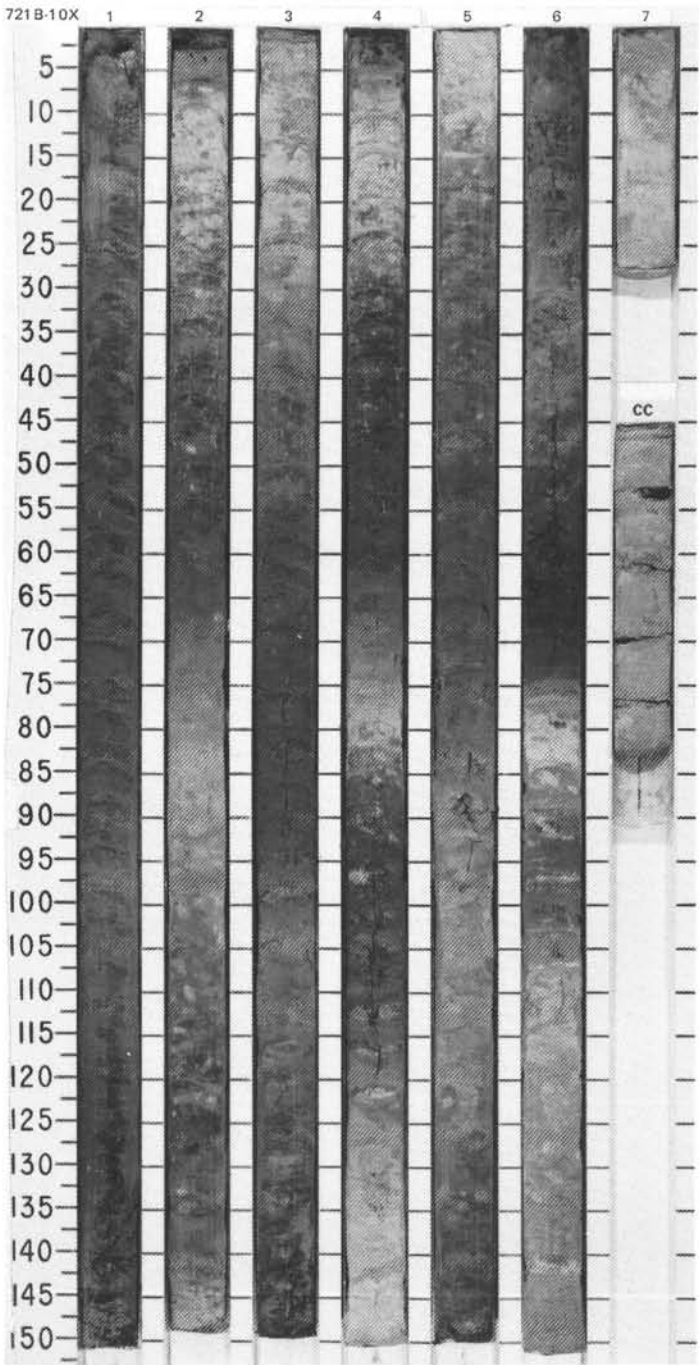
6,	6,
61	81
D	D

TEXTURE:

Silt	10	5
Clay	90	95

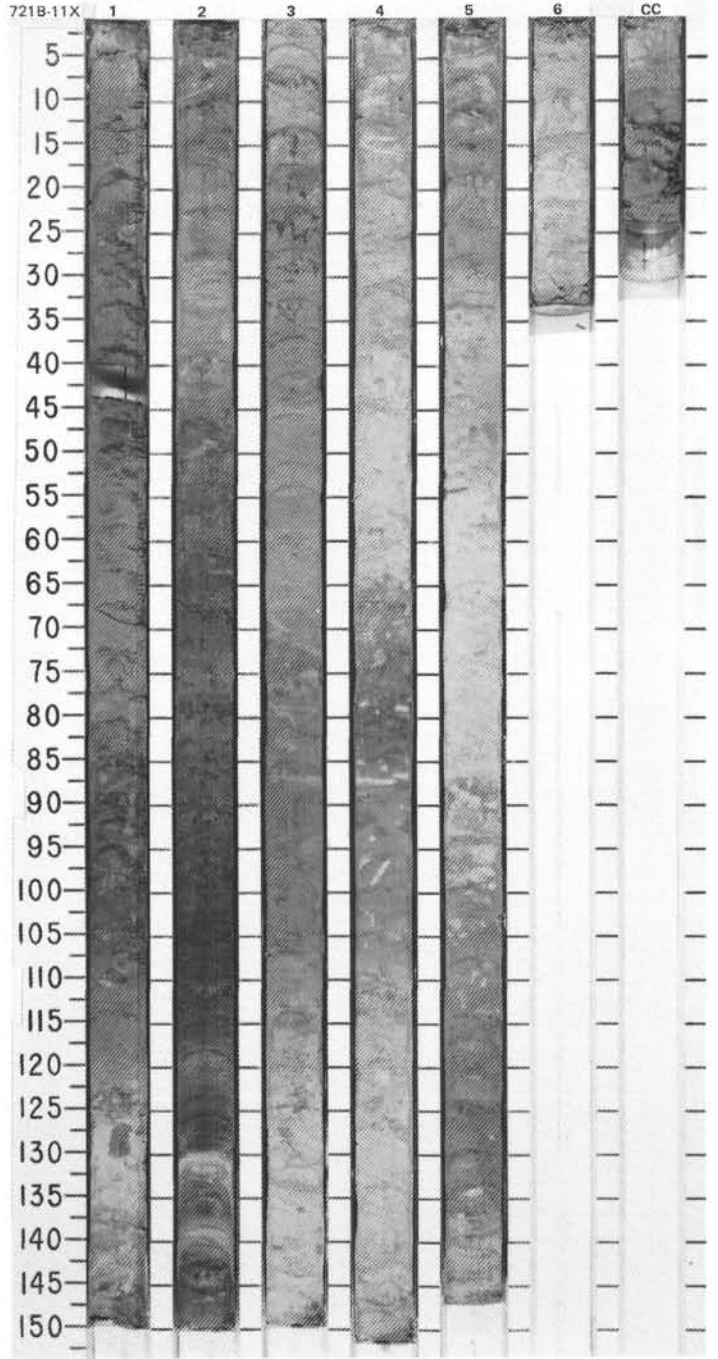
COMPOSITION:

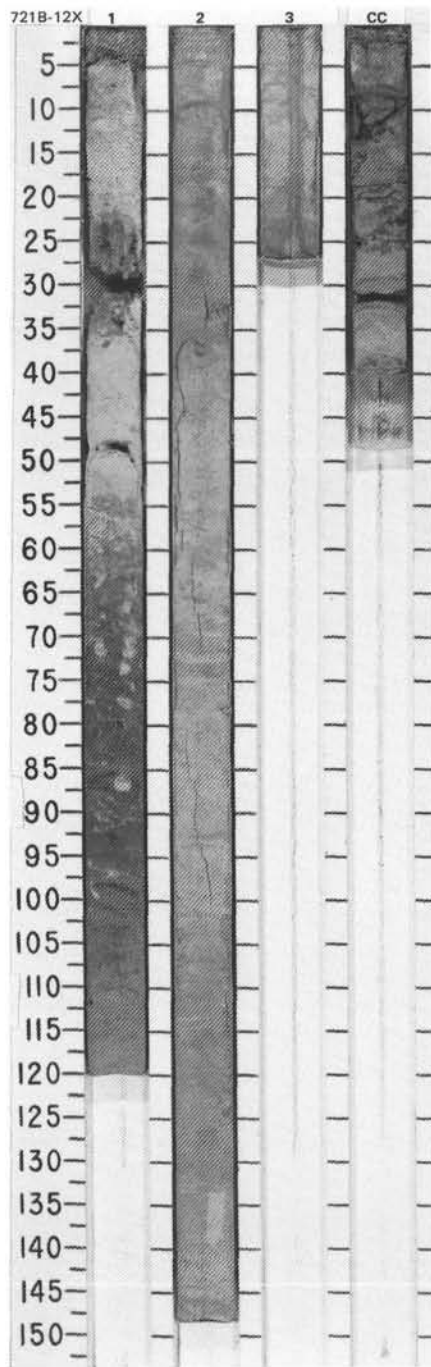
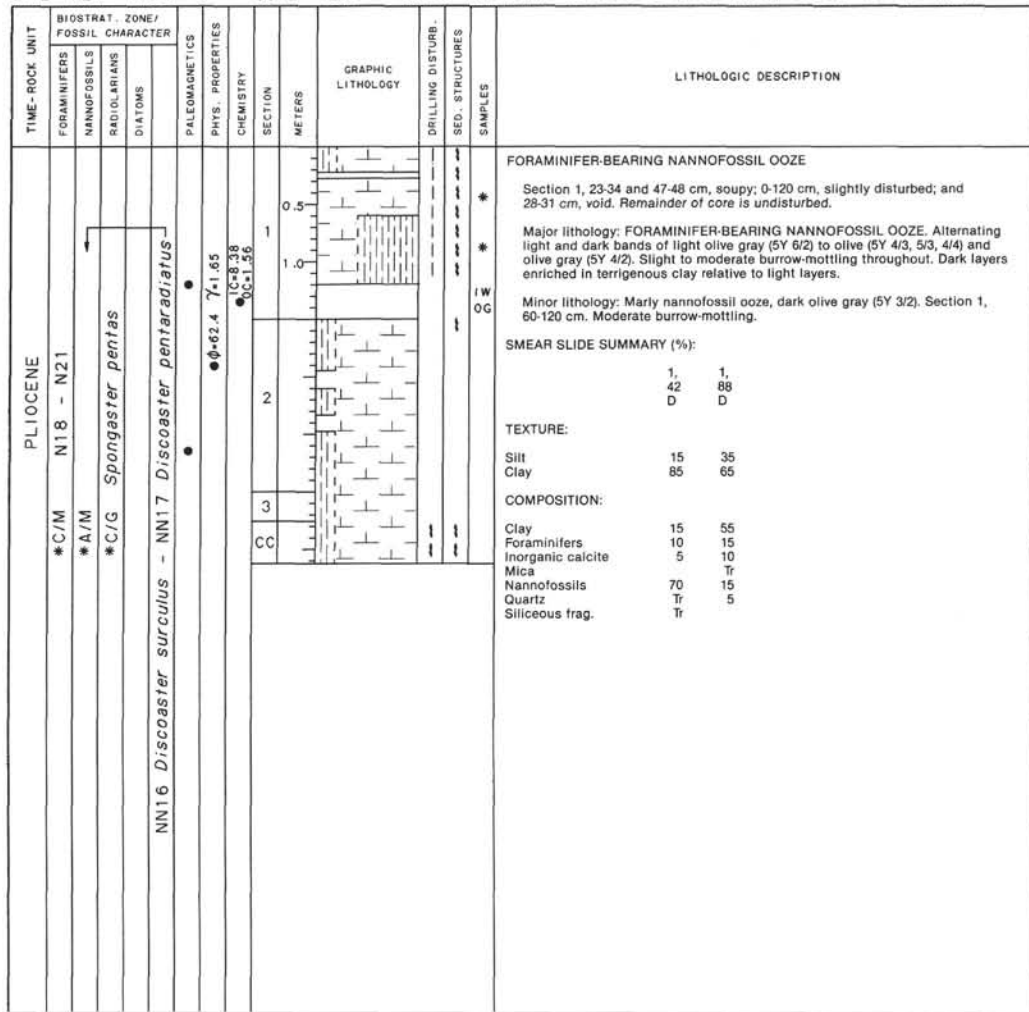
Access. minerals	3	
Clay	59	20
Foraminifers	5	10
Inorganic calcite	6	5
Nannofossils	27	65
Quartz		Tr



SITE 721 HOLE B CORE 11X CORED INTERVAL 2040.4 - 2050.0 mbsl; 95.6 - 105.2 mbsf

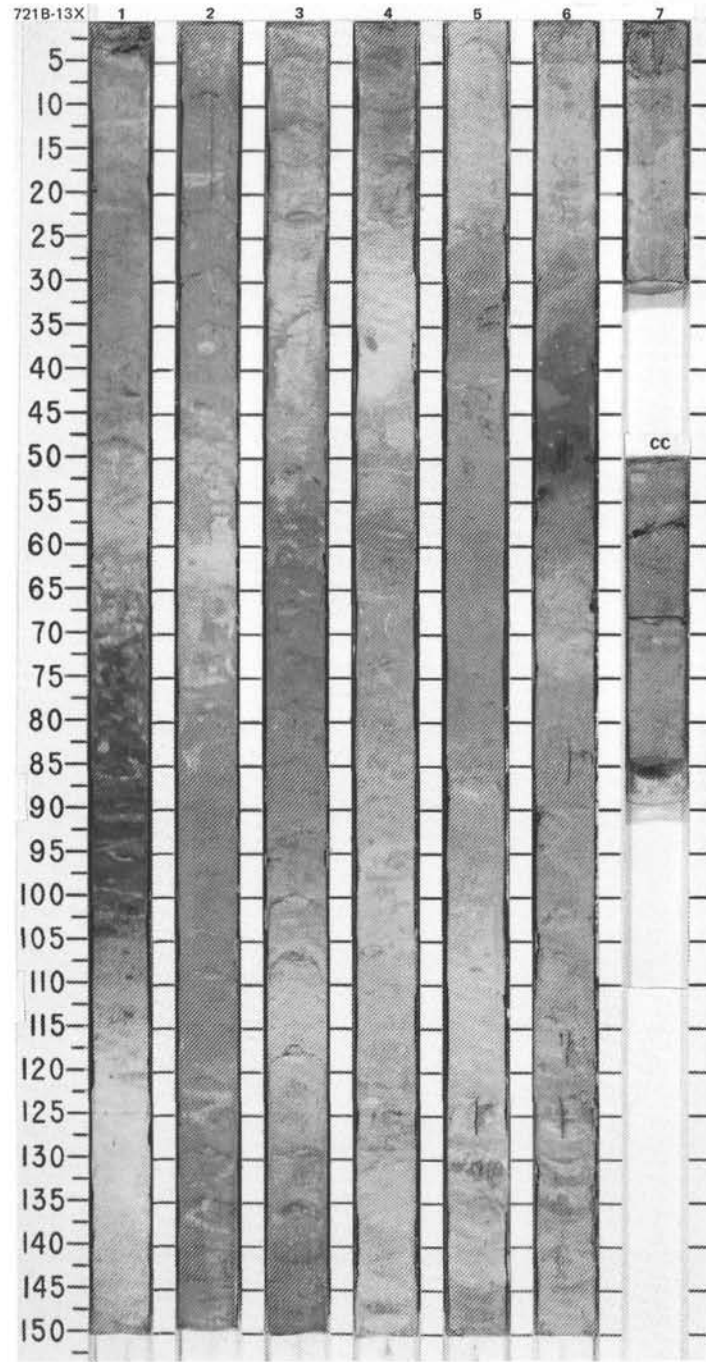
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																						
PLIOCENE										<p>NANNOFOSSIL OOZE TO FORAMINIFER-BEARING NANNOFOSSIL OOZE</p> <p>Void in Section 1, 40-43 cm. Remainder of core is undisturbed.</p> <p>Major lithology: NANNOFOSSIL OOZE to FORAMINIFER-BEARING NANNOFOSSIL OOZE. Alternating light and dark bands of light olive gray (5Y 6/2) to olive (5Y 4/3, 5/3, 4/4) and olive gray (5Y 4/2). Slight to moderate burrow-mottling throughout. Dark layers enriched in terrigenous clay relative to light layers.</p> <p>Minor lithology: Marly nannofossil ooze, dark olive gray (5Y 3/2). Section 2, 122-132 cm.</p> <p>SMEAR SLIDE SUMMARY (%)</p> <table border="0"> <tr><td>Silt</td><td>3</td></tr> <tr><td>Clay</td><td>61</td></tr> <tr><td>D</td><td>0</td></tr> </table> <p>TEXTURE:</p> <table border="0"> <tr><td>Silt</td><td>10</td></tr> <tr><td>Clay</td><td>90</td></tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr><td>Access. minerals</td><td>Tr</td></tr> <tr><td>Clay</td><td>20</td></tr> <tr><td>Foraminifers</td><td>Tr</td></tr> <tr><td>Inorganic calcite</td><td>5</td></tr> <tr><td>Nannofossils</td><td>70</td></tr> <tr><td>Radiolarians</td><td>5</td></tr> </table>	Silt	3	Clay	61	D	0	Silt	10	Clay	90	Access. minerals	Tr	Clay	20	Foraminifers	Tr	Inorganic calcite	5	Nannofossils	70	Radiolarians	5
Silt	3																															
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Foraminifers	Tr																															
Inorganic calcite	5																															
Nannofossils	70																															
Radiolarians	5																															
*C/M	N18 - N21	● $\phi=71.0$ $\gamma=1.78$			0.5																											
*A/M	NN17 <i>Discoaster pentaradiatus</i>	● $\phi=71.0$ $\gamma=1.78$			1.0																											
*C/G	Spongaster pentas	● $\phi=57.5$ $\gamma=1.51$			2																											
	C/G *	● $\phi=64.0$ $\gamma=1.68$			3																											
	Gauss	● $\phi=57.5$ $\gamma=1.51$			4																											
		● $\phi=64.0$ $\gamma=1.68$			5																											
					6																											
					CC																											



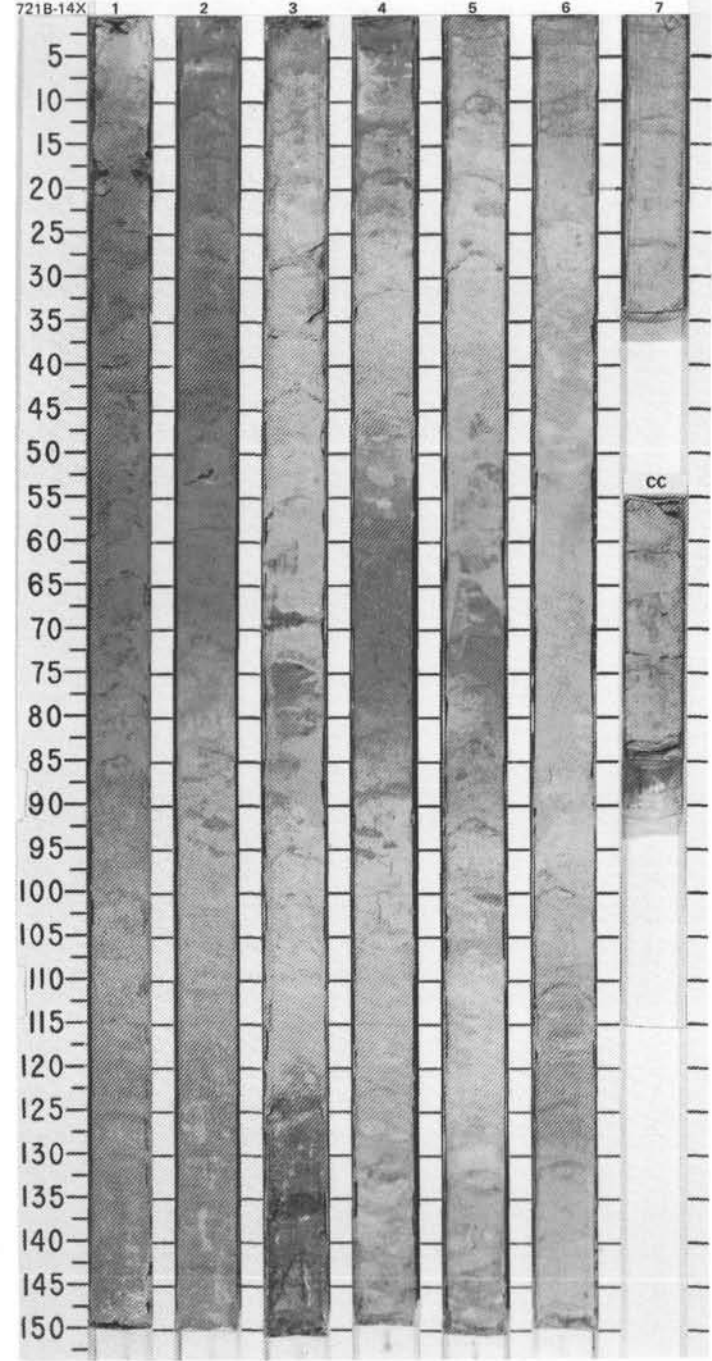


SITE 721 HOLE B CORE 13X CORED INTERVAL 2059.6-2069.2 mbsl; 114.8-124.4 mbsf

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	DIAZONS																														
PLIOCENE																																		
* C/M	NN16 - NN17				● Gauss			0.5 1.0					<p>FORAMINIFER-BEARING NANNOFOSSIL OOZE</p> <p>No drilling disturbance.</p> <p>Major lithology: FORAMINIFER-BEARING NANNOFOSSIL OOZE. Alternating light and dark bands of light olive gray (5Y 6/2) to olive (5Y 4/3, 5/3, 4/4) and olive gray (5Y 4/2). Slight to moderate burrow-mottling throughout. Dark layers enriched in terrigenous clay relative to light layers.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr><td>4.</td></tr> <tr><td>70</td></tr> <tr><td>D</td></tr> </table> <p>TEXTURE:</p> <table border="0"> <tr><td>Silt</td><td>10</td></tr> <tr><td>Clay</td><td>90</td></tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr><td>Access. minerals</td><td>2</td></tr> <tr><td>Clay</td><td>20</td></tr> <tr><td>Foraminifers</td><td>10</td></tr> <tr><td>Inorganic calcite</td><td>3</td></tr> <tr><td>Mica</td><td>Tr</td></tr> <tr><td>Nannofossils</td><td>65</td></tr> <tr><td>Quartz</td><td>Tr</td></tr> </table>	4.	70	D	Silt	10	Clay	90	Access. minerals	2	Clay	20	Foraminifers	10	Inorganic calcite	3	Mica	Tr	Nannofossils	65	Quartz	Tr
4.																																		
70																																		
D																																		
Silt	10																																	
Clay	90																																	
Access. minerals	2																																	
Clay	20																																	
Foraminifers	10																																	
Inorganic calcite	3																																	
Mica	Tr																																	
Nannofossils	65																																	
Quartz	Tr																																	
* A/M	NN18 - N21	<i>Reticulofenestra pseudoumbilica</i> *A/M			● $\phi=52.1$ $\gamma=1.70$		1																											
* C/G		<i>Spongaster pentas</i>			○ $\phi=51.7$ $\gamma=1.68$		2																											
					○ $\phi=52.0$ $\gamma=1.73$		3																											
					○ Gilbert		4																											
					○ $\phi=51.7$ $\gamma=1.68$		5																											
					○ $\phi=52.0$ $\gamma=1.73$		6																											
					○ $\phi=51.7$ $\gamma=1.68$		7																											
					○ $\phi=52.0$ $\gamma=1.73$		CC																											

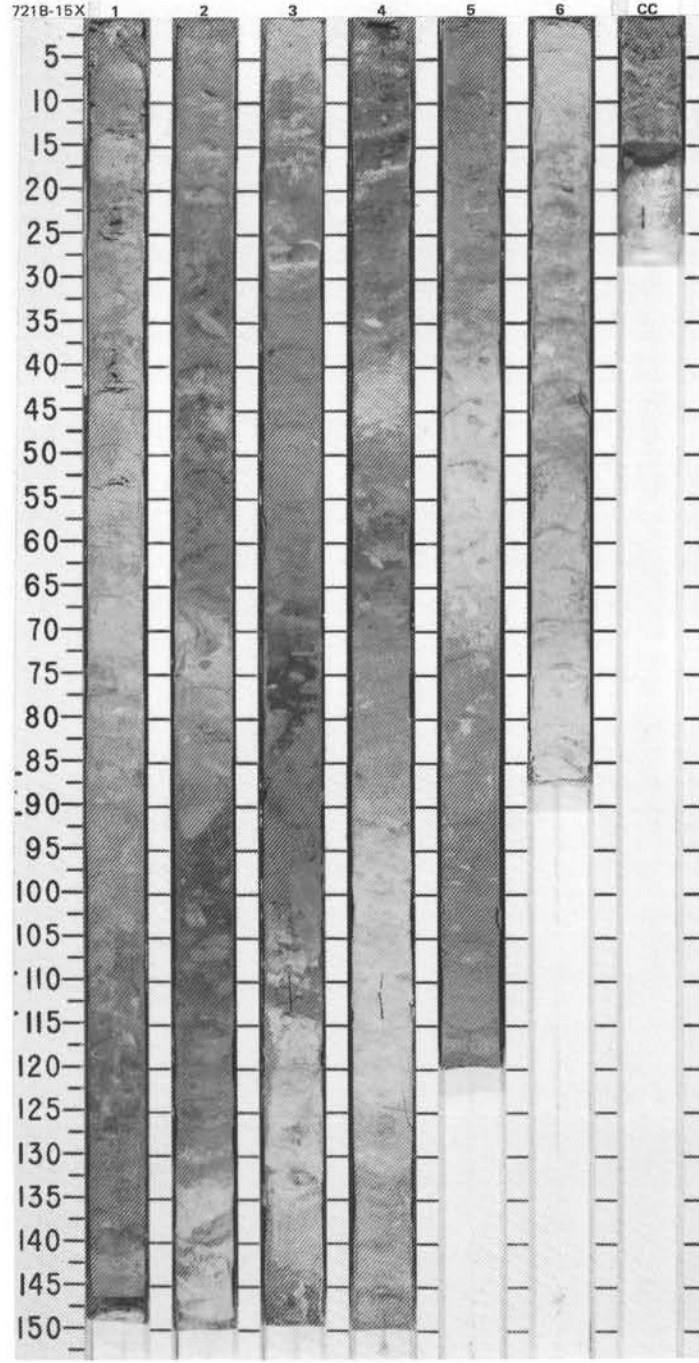


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																						
PLIOCENE											<p>NANNOFOSSIL OOZE to FORAMINIFER-BEARING NANNOFOSSIL OOZE</p> <p>Minor drilling disturbance Section 1, 10-20 cm.</p> <p>Major lithology: NANNOFOSSIL OOZE to FORAMINIFER-BEARING NANNOFOSSIL OOZE. Alternating lighter and darker sediments of light greenish gray (10Y 6/2, 6/4) to dark greenish gray (10Y 5/4, 5/2) and olive (5Y 4/3). Banding on a 5-130 cm scale. Minor bioturbation throughout. Dark layers generally have 10-20% more terrigenous silty clay than light layers.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr><td>4,</td><td></td></tr> <tr><td>46</td><td></td></tr> <tr><td>D</td><td></td></tr> </table> <p>TEXTURE:</p> <table border="1"> <tr><td>Silt</td><td>20</td></tr> <tr><td>Clay</td><td>80</td></tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr><td>Clay</td><td>10</td></tr> <tr><td>Foraminifers</td><td>5</td></tr> <tr><td>Inorganic calcite</td><td>Tr</td></tr> <tr><td>Nannofossils</td><td>80</td></tr> <tr><td>Quartz</td><td>Tr</td></tr> <tr><td>Radiolarians</td><td>5</td></tr> </table>	4,		46		D		Silt	20	Clay	80	Clay	10	Foraminifers	5	Inorganic calcite	Tr	Nannofossils	80	Quartz	Tr	Radiolarians	5
4,																																	
46																																	
D																																	
Silt	20																																
Clay	80																																
Clay	10																																
Foraminifers	5																																
Inorganic calcite	Tr																																
Nannofossils	80																																
Quartz	Tr																																
Radiolarians	5																																
*C/M	N18 - N21		● $\phi=63.7$ $\gamma=1.64$	OC-0.38 OC-1.37	1	0.5 1.0																											
*A/G	NN12 <i>Ambaulithus tricorniculatus</i> - NN15 <i>Reticulofenesta pseudoumbilica</i>		O Gilbert		2																												
*C/G	* C/G <i>Spongaster pentas</i>		O Gilbert		3																												
			● $\phi=61.9$ $\gamma=1.68$		4																												
			O		5																												
			● $\phi=61.7$ $\gamma=1.72$		6																												
					7																												
					CC																												

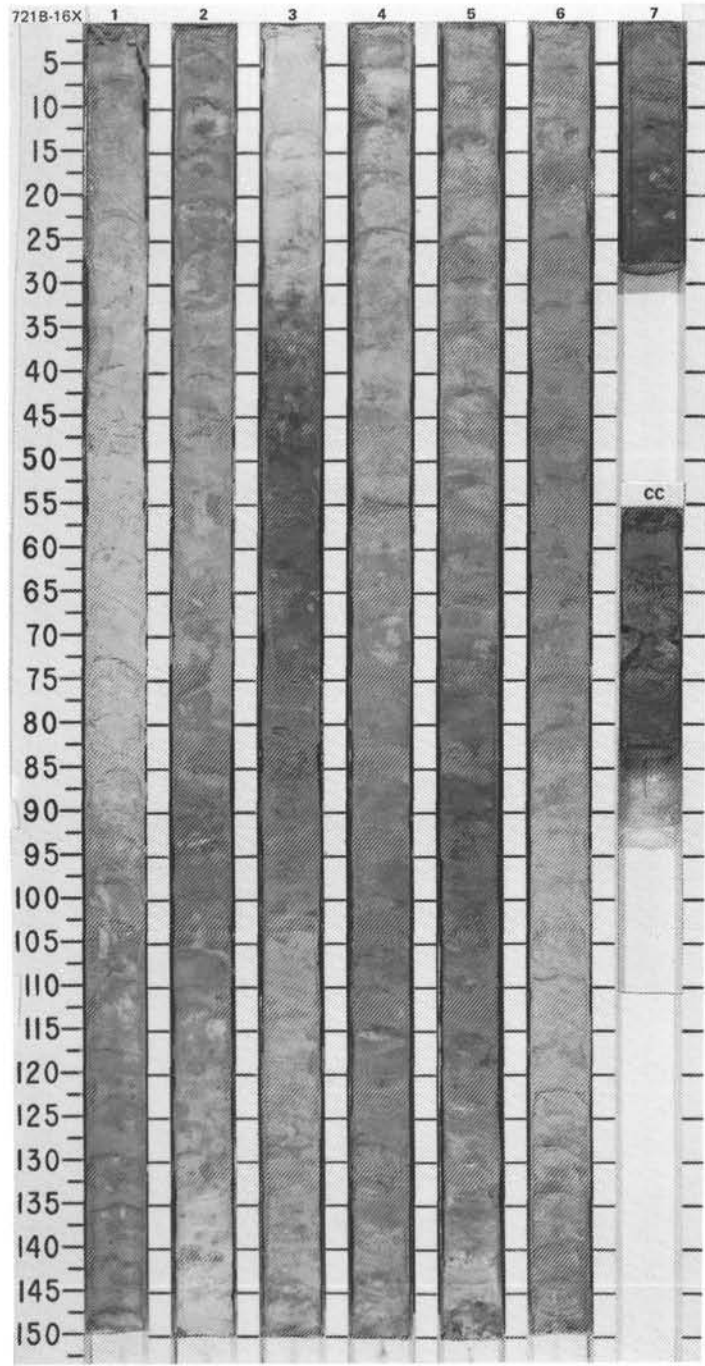


SITE 721 HOLE B CORE 15X CORED INTERVAL

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																				
PLIOCENE	N18 - N21			O Gilbert	● $\phi=60.3$ $\gamma+1.66$			0.5 1.0	1				NANNOFOSSIL OOZE No drilling disturbance. Major lithology: NANNOFOSSIL OOZE. Alternating lighter and darker bands of light olive gray (5Y 6/2) and light gray (5Y 7/1) to olive gray (5Y 5/2) and olive (5Y 5/3, 4/3, 4/4). Banding on the 10-100 cm scale. Bioturbation absent to moderate. Dark layers generally have 10-20% more terrigenous silty clay than do light layers.										
	*C/M																						
	*A/M	NN15 <i>Reticulofenestra pseudumbilica</i>																					
	*C/G	* C/G <i>Spongaster pentas</i>																					
														● $\phi=60.4$ $\gamma+1.76$			2	3	4	5	6		
														● $\phi=63.1$ $\gamma+1.66$			CC						



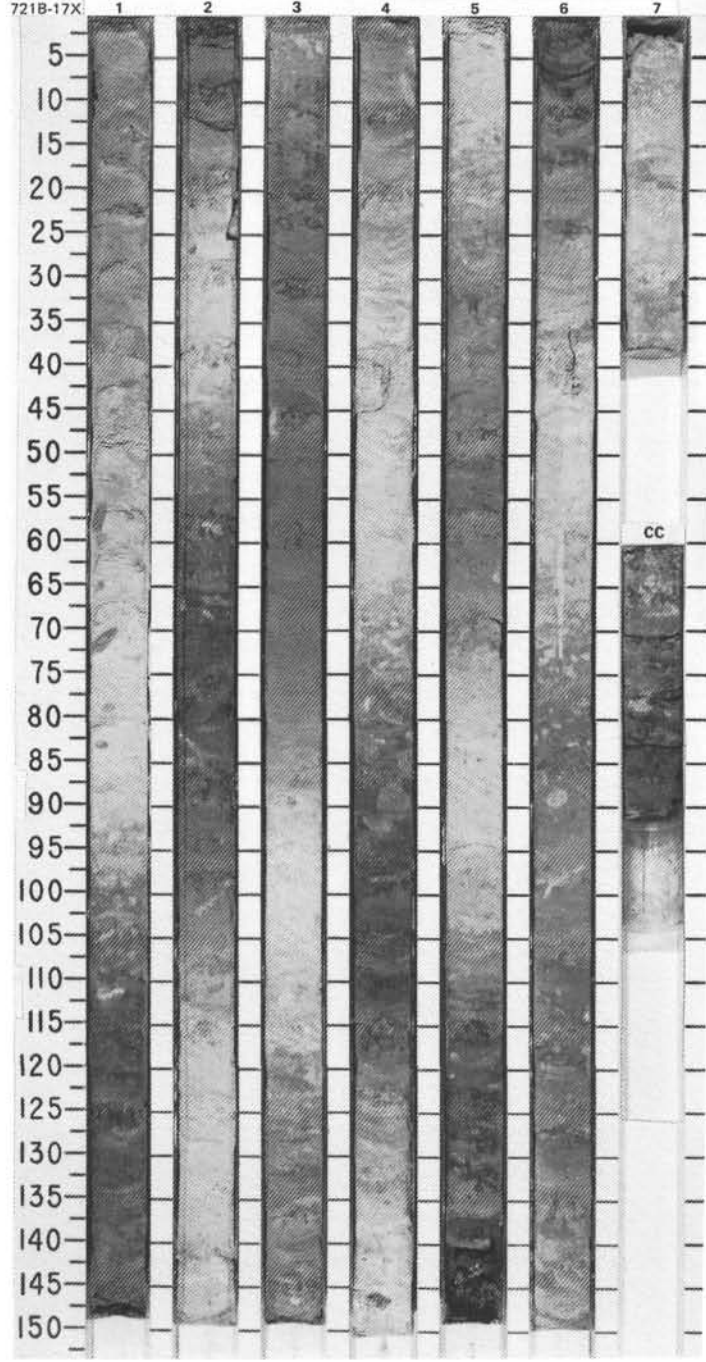
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS									
PLIOCENE	*C/M	N18 - N21										<p>NANNOFOSSIL OOZE to FORAMINIFER-BEARING NANNOFOSSIL OOZE</p> <p>Moderate drilling disturbance, CC.</p> <p>Major lithology: NANNOFOSSIL OOZE to FORAMINIFER-BEARING NANNOFOSSIL OOZE. Alternating lighter and darker bands of light gray (5Y 7/1, 7/2) to pale olive (5Y 6/3) and olive (5Y 5/3, 5/4, 4/3, 4/4). Banding on a 20-150 cm scale. Bioturbation absent to moderate. Dark layers generally have 10-20% more terrigenous silty clay than do light layers.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="padding-left: 40px;">3, 8 D</p> <p>TEXTURE:</p> <p>Silt 10 Clay 90</p> <p>COMPOSITION:</p> <p>Access. minerals 5 Clay 10 Diatoms Tr Foraminifers 10 Inorganic calcite Tr Mica Tr Nannofossils 75 Radiolarians Tr</p>
	*A/M	NN12 <i>Amaurolithus tricorniculatus</i>	NN15 <i>Reticulofenestra pseudoumbilica</i>	●	●			1				
	*C/G		* C/G	<i>Spongaster pentas</i>					2			
					O	●			3			
					O	●			4			
					O	●			5			
					O	●			6			
								7				
								CC				

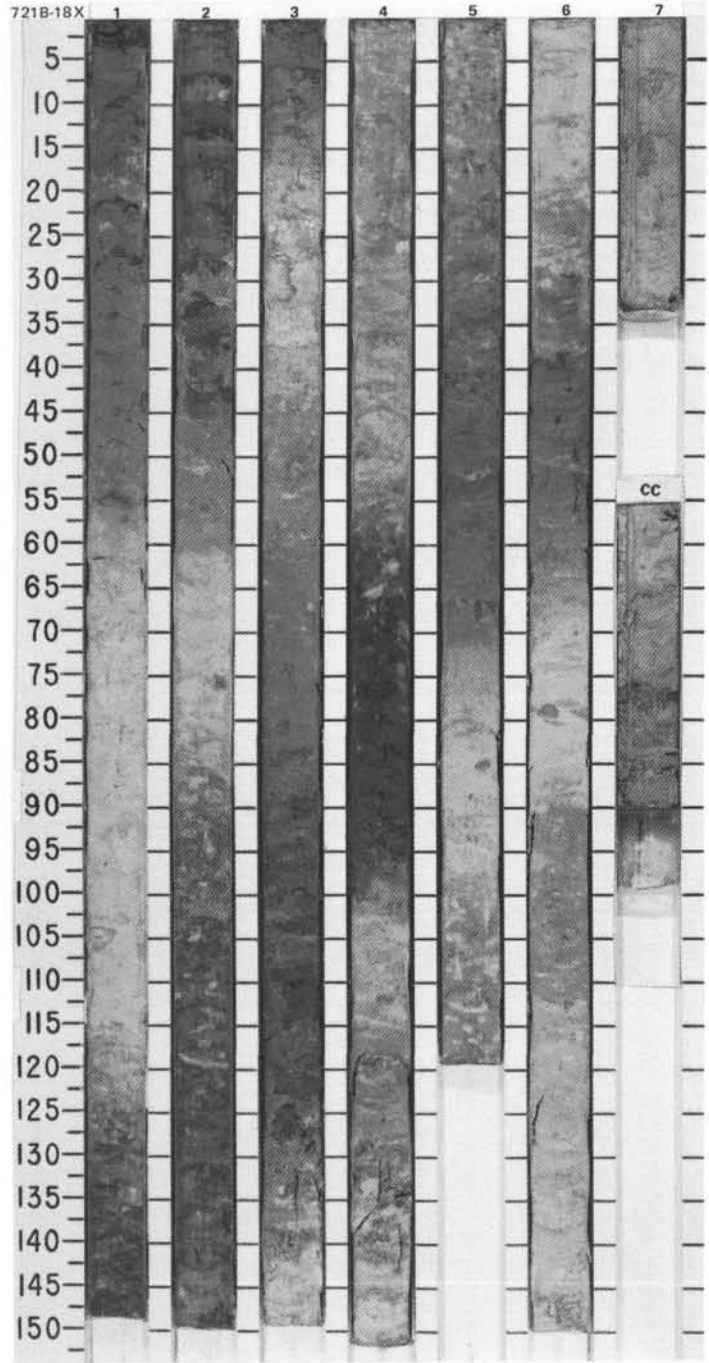
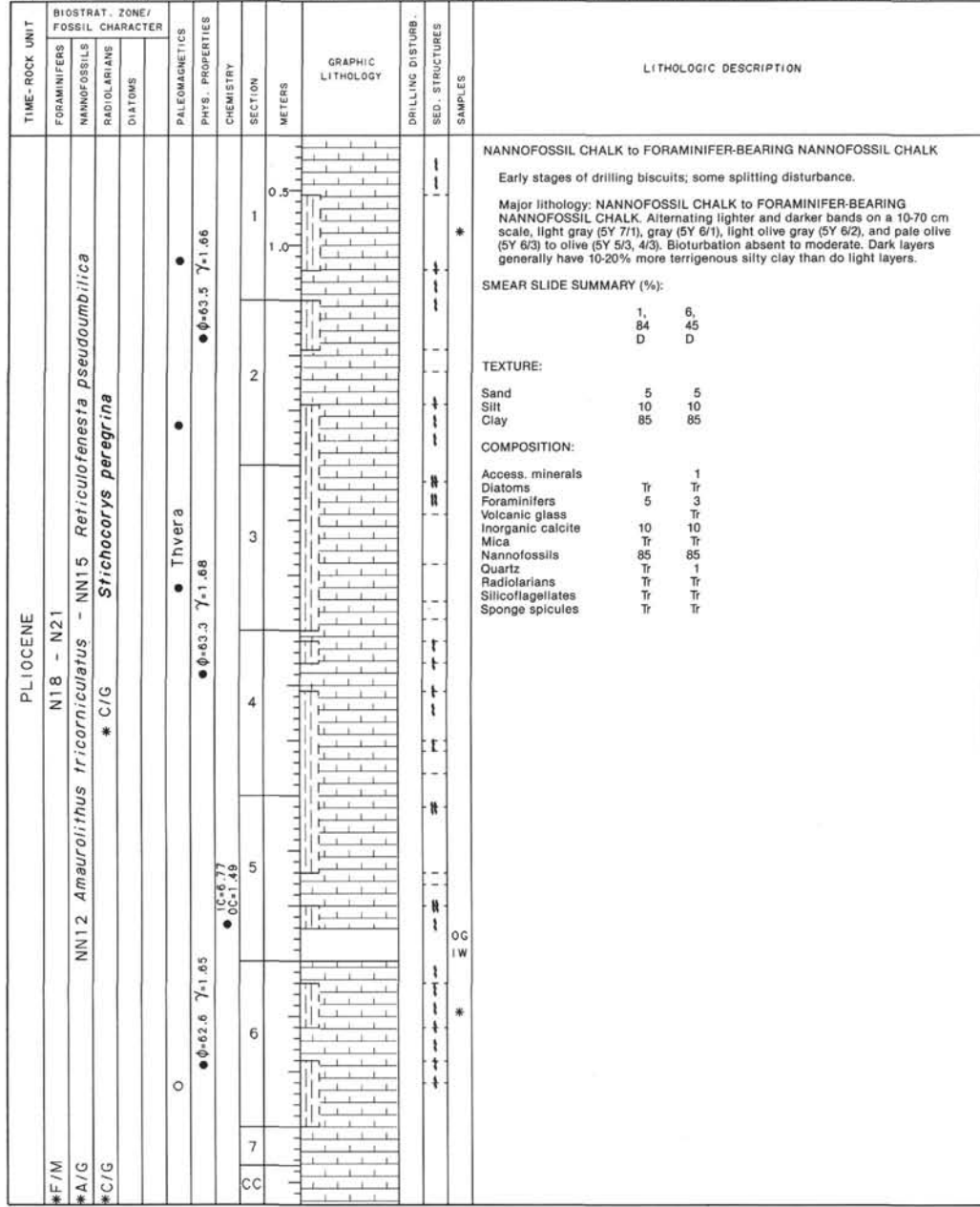


SITE 721 HOLE B CORE 17X CORED INTERVAL 2098.3-2108.0 mbsl; 153.5-163.2 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAATOMS									
*C/M	N18 - N21											
*A/M		NN12 <i>Amaurolithus tricorniculatus</i> - NN15 <i>Reticulofenestra pseudoumbilica</i>										
*C/G		* C/G	<i>Stichocorys peregrina</i>									
				● Gilbert								
				● Sidufiall								
					● $\phi=04.8$ $\gamma=1.63$							
					● $\phi=02.7$ $\gamma=1.62$							
					● $\phi=01.2$ $\gamma=1.71$							
						● $\phi=08.57$						
						● $\phi=00.57$						

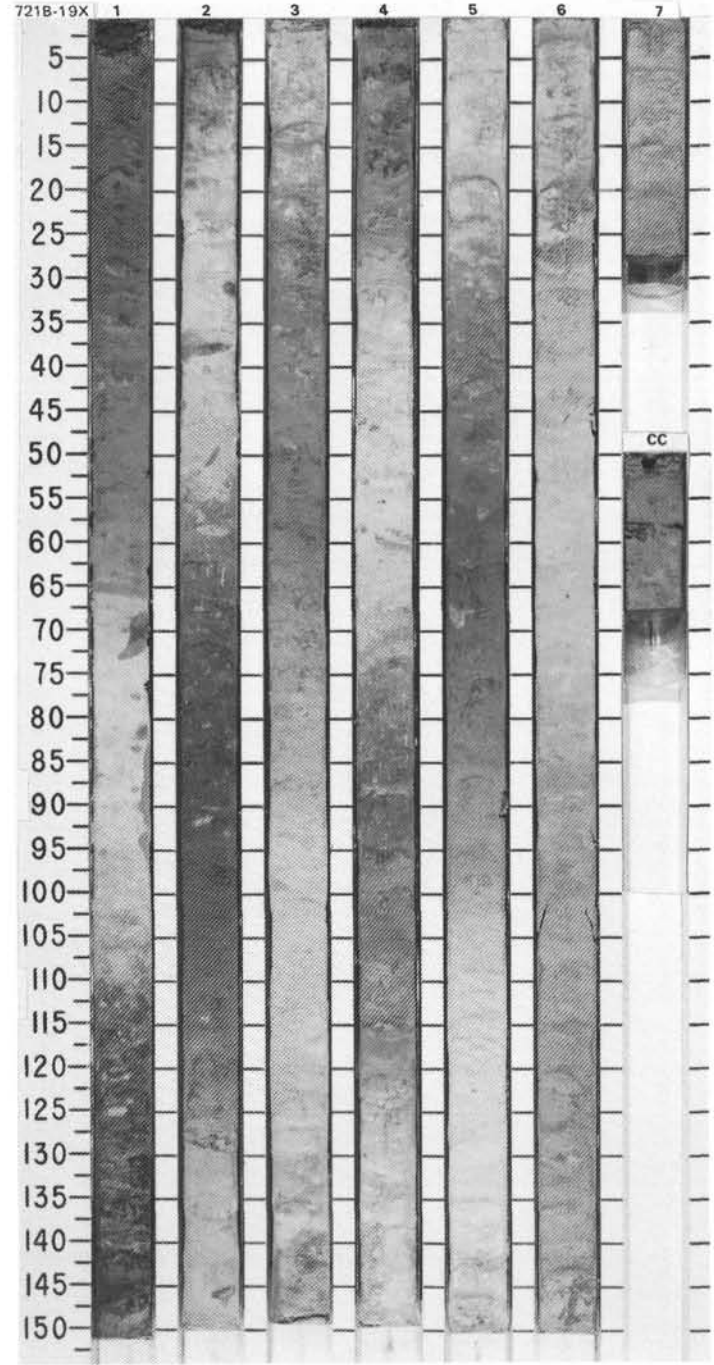
NANNOFOSSIL CHALK
Drilling disturbance absent.
Major lithology: NANNOFOSSIL CHALK. Alternating lighter and darker bands range from light gray (5Y 7/1), gray (5Y 6/1), and olive (5Y 5/3, 4/3), to olive gray (5Y 5/2). Banding is on the 10-150 cm scale, often mottled at the contacts. Gradational contacts. Bioturbation absent to minor. Dark layers generally have 10-20% more terrigenous silty clay than do light layers.





SITE 721 HOLE B CORE 19X CORED INTERVAL 2117.7-2127.4 mbsl; 172.9-182.6 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	DIFATOMS																																																																									
MIOCENE	*F/M	*A/M NN11 <i>Discoaster quinqueramus</i>	A/M *	*C/G	● $\phi=63.7$ $\gamma=1.63$			6					<p>NANNOFOSSIL CHALK</p> <p>Undisturbed core.</p> <p>Major lithology: NANNOFOSSIL CHALK. Alternating lighter and darker bands range from light gray (5Y 7/1), light olive gray (5Y 6/2), and pale olive (5Y 6/3) to olive (5Y 5/4, 7/3, 5/3). Bioturbation absent to moderate. Light layers generally have 10-20% less terrigenous silty clay than do dark layers.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2</td> <td>4</td> <td>6</td> </tr> <tr> <td></td> <td>85</td> <td>55</td> <td>65</td> </tr> <tr> <td></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>2</td> <td>2</td> </tr> <tr> <td>Silt</td> <td>10</td> <td>8</td> <td>8</td> </tr> <tr> <td>Clay</td> <td>90</td> <td>90</td> <td>90</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. minerals</td> <td>1</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td>Tr</td> <td>2</td> <td>2</td> </tr> <tr> <td>Volcanic glass</td> <td></td> <td></td> <td>Tr</td> </tr> <tr> <td>Inorganic calcite</td> <td>8</td> <td>7</td> <td>7</td> </tr> <tr> <td>Mica</td> <td></td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>90</td> <td>90</td> <td>90</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Silicoflagellates</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td>Sponge spicules</td> <td>Tr</td> <td></td> <td></td> </tr> </table>		2	4	6		85	55	65		D	D	D	Sand		2	2	Silt	10	8	8	Clay	90	90	90	Access. minerals	1	Tr	Tr	Foraminifers	Tr	2	2	Volcanic glass			Tr	Inorganic calcite	8	7	7	Mica		Tr	Tr	Nannofossils	90	90	90	Quartz	Tr	Tr	Tr	Radiolarians	Tr	Tr	Tr	Silicoflagellates	1	1	1	Sponge spicules	Tr		
	2	4	6																																																																										
	85	55	65																																																																										
	D	D	D																																																																										
Sand		2	2																																																																										
Silt	10	8	8																																																																										
Clay	90	90	90																																																																										
Access. minerals	1	Tr	Tr																																																																										
Foraminifers	Tr	2	2																																																																										
Volcanic glass			Tr																																																																										
Inorganic calcite	8	7	7																																																																										
Mica		Tr	Tr																																																																										
Nannofossils	90	90	90																																																																										
Quartz	Tr	Tr	Tr																																																																										
Radiolarians	Tr	Tr	Tr																																																																										
Silicoflagellates	1	1	1																																																																										
Sponge spicules	Tr																																																																												
					● $\phi=61.0$ $\gamma=1.71$		3																																																																						
					● $\phi=63.4$ $\gamma=1.62$		1																																																																						
PLIOCENE		*A/M NN12 <i>Amaurolithus tricorniculatus</i>					0.5																																																																						
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TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	GRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
MIOCENE													
#F/M	N1B - N21												
#A/G	NN11 <i>Discoaster quinqueramus</i>												
#F/G	C/G * <i>Stichocorys peregrina</i>												
					$\phi = 61.6 \gamma = 1.70$								
					$\phi = 61.6 \gamma = 1.70$								
					$\phi = 62.4 \gamma = 1.66$								
					$\phi = 58.6 \gamma = 1.69$								
					$\phi = 7.31 \gamma = 0.82$								

NANNOFOSSIL CHALK TO FORAMINIFER-BEARING NANNOFOSSIL CHALK

Slightly disturbed, Section 6, 0-30 cm; very disturbed CC, 20-30 cm.

Major lithology: NANNOFOSSIL CHALK to FORAMINIFER-BEARING NANNOFOSSIL CHALK. Alternating lighter and darker layers. Colors range from light gray (SY 7/1), light olive gray (SY 8/2), and pale olive (SY 8/3), to olive (SY 5/4, 4/4). Banding on a scale of 10-70 cm. Bioturbation, absent to moderate, shows up as mottling over gradational contacts. Light layers generally have 10-20% less terrigenous silty clay than do dark layers.

SMEAR SLIDE SUMMARY (%):

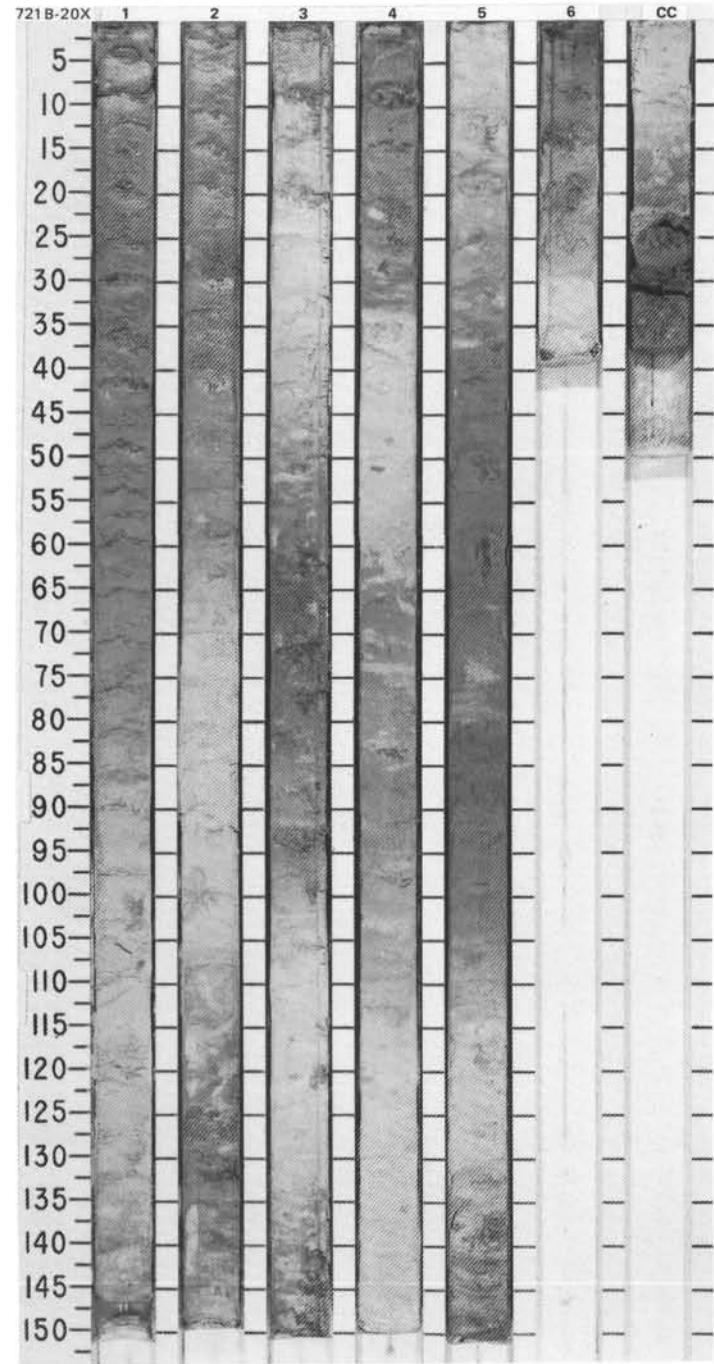
	3, 115	4, 12
D	D	D

TEXTURE:

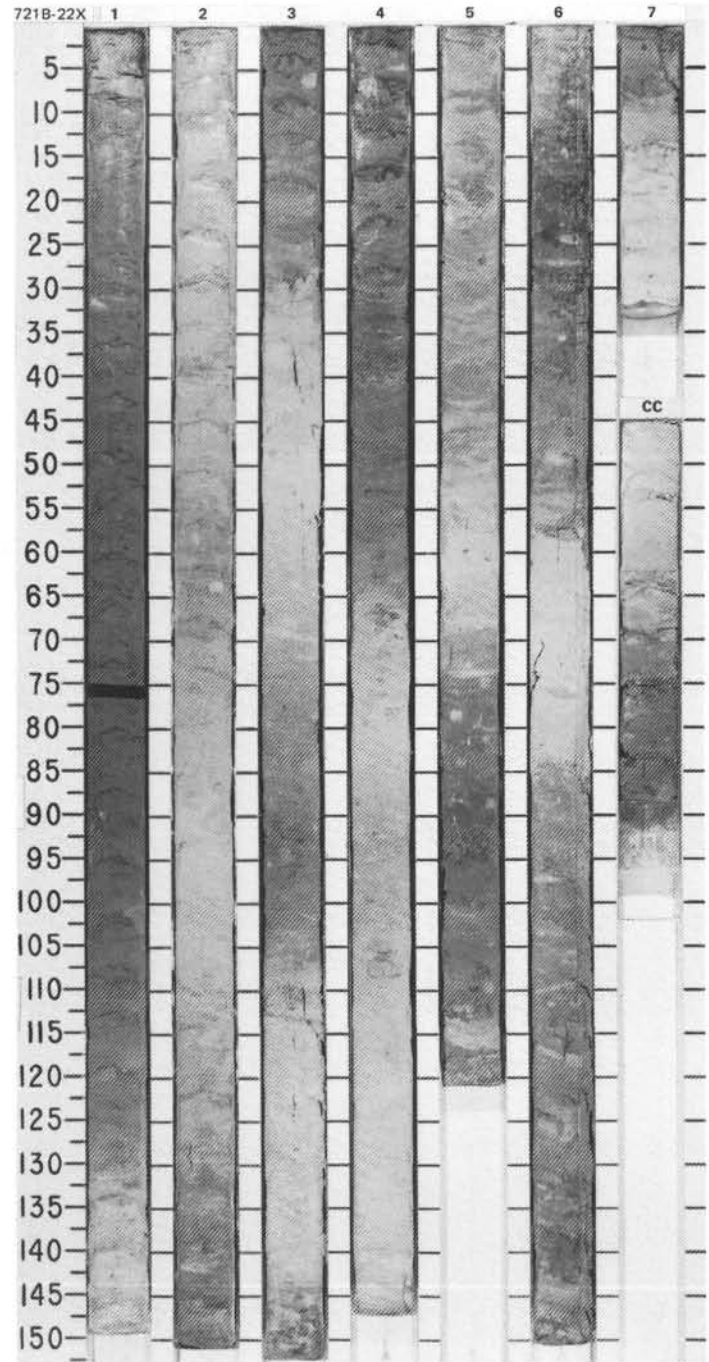
Sand	5
Silt	5
Clay	90

COMPOSITION:

Access. minerals	Tr	1
Diatoms	Tr	Tr
Dolomite		
Foraminifers	5	
Volcanic glass	Tr	
Inorganic calcite	5	15
Mica	Tr	Tr
Nannofossils	90	80
Quartz	Tr	Tr
Radiolarians	Tr	Tr
Silicoflagellates	Tr	4
Sponge spicules	Tr	Tr

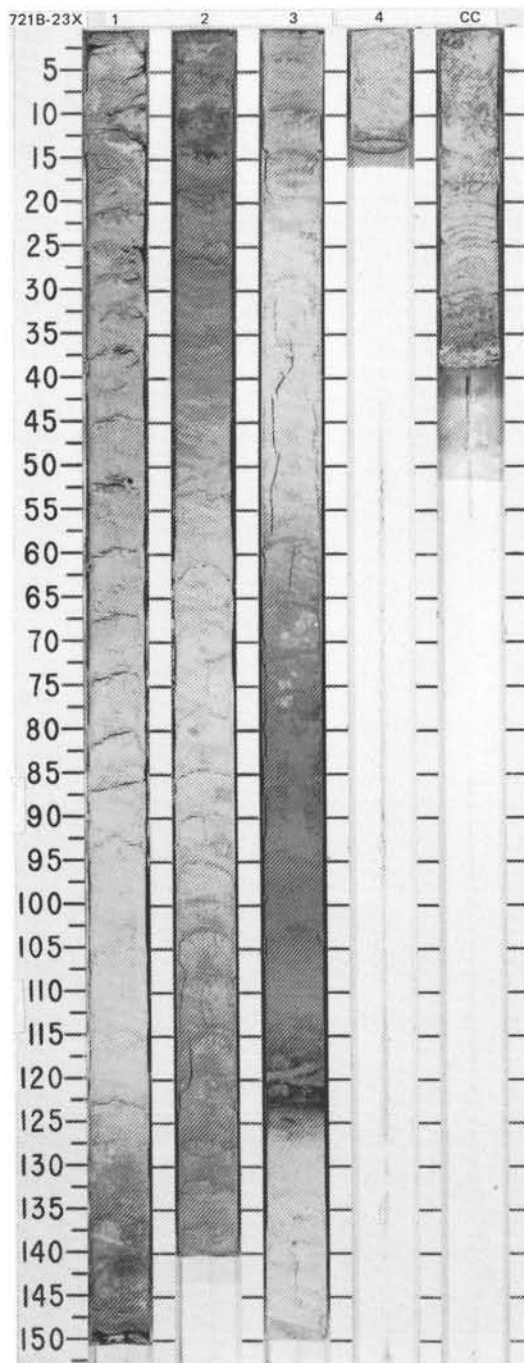


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																						
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																															
*C/M	N16 - N17												<p>NANNOFOSSIL CHALK</p> <p>Undisturbed core.</p> <p>Major lithology: NANNOFOSSIL CHALK. Alternating lighter and darker layers. Colors range from light gray (5Y 7/1) and light olive gray (5Y 5/4, 4/4, 4/3) to live gray (5Y 4/2). Layers range from 20-130 cm. Bioturbation absent to moderate, causing mottled gradational contacts. Light layers generally have 10-20% less terrigenous silty clay than the dark layers.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr><td></td><td>7, 28</td></tr> <tr><td>D</td><td></td></tr> </table> <p>TEXTURE:</p> <table border="0"> <tr><td>Sand</td><td>2</td></tr> <tr><td>Silt</td><td>8</td></tr> <tr><td>Clay</td><td>90</td></tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr><td>Diatoms</td><td>Tr</td></tr> <tr><td>Foraminifers</td><td>2</td></tr> <tr><td>Inorganic calcite</td><td>3</td></tr> <tr><td>Nannofossils</td><td>85</td></tr> <tr><td>Silicoflagellates</td><td>10</td></tr> <tr><td>Sponge spicules</td><td>Tr</td></tr> </table>		7, 28	D		Sand	2	Silt	8	Clay	90	Diatoms	Tr	Foraminifers	2	Inorganic calcite	3	Nannofossils	85	Silicoflagellates	10	Sponge spicules	Tr
	7, 28																																		
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Nannofossils	85																																		
Silicoflagellates	10																																		
Sponge spicules	Tr																																		
*A/G	NN11 <i>Discoaster quinqueramus</i>				● φ-63.2 γ+1.69			1																											
*C/G	* C/G <i>Stichocorys peregrina</i>				● φ-61.7 γ+1.72			2																											
					● φ-58.6 γ+1.75			3																											
					● Chronozone 5			4																											
					● φ-58.6 γ+1.75			5																											
					● φ-58.6 γ+1.75			6																											
								7																											
								CC																											

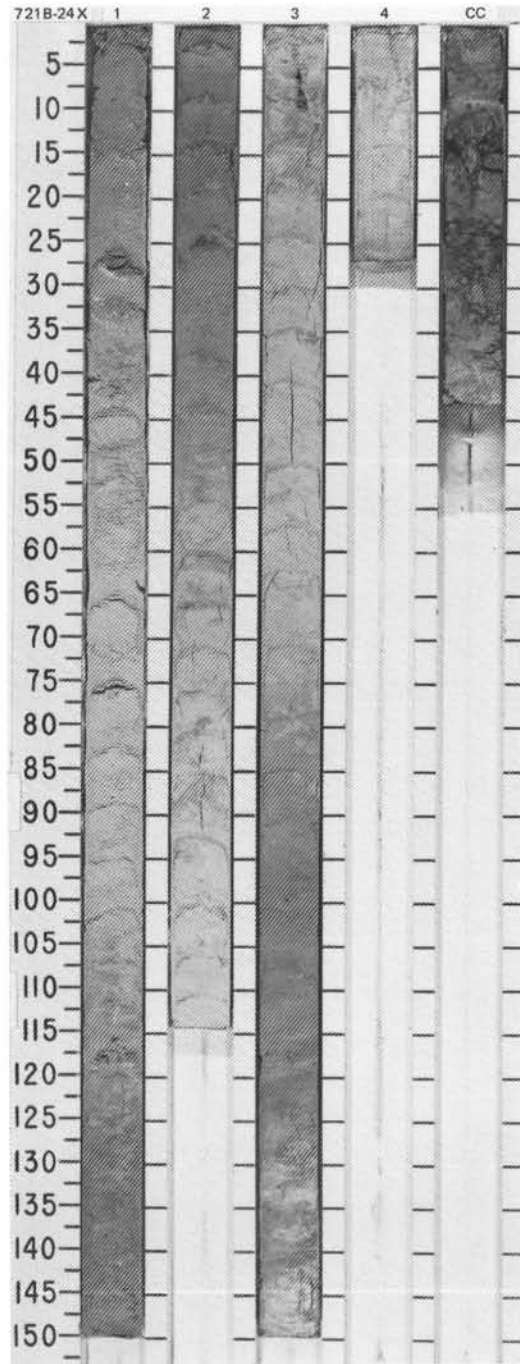


SITE 721 HOLE B CORE 23X CORED INTERVAL 2156.5-2166.1 mbsl; 211.7-221.3 mbsf

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																																						
MIocene	* C/M N16 - N17	* A/M NN11 <i>Discoaster quinqueramus</i>	* C/G C/G*	<i>Stichocorys peregrina</i>					0.5 1.0					<p>NANNOFOSSIL CHALK</p> <p>CC disturbed, 0-20 cm.</p> <p>Major lithology: NANNOFOSSIL CHALK. Alternating light and dark layers. Color ranges from light gray (5Y 7/1, 7/2), pale olive (5Y 6/3), and olive (5Y 5/3, 4/3) to very dark gray (5Y 3/1). Layers range from 10-70 cm thick. Bioturbation ranges from absent to moderate; mottling over gradational contacts. Light layers generally have 10-20% less terrigenous silty clay than do dark layers.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td>Sand</td> <td>3</td> </tr> <tr> <td>Silt</td> <td>135</td> </tr> <tr> <td>Clay</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>1</td> </tr> <tr> <td>Silt</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>94</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. minerals</td> <td>Tr</td> </tr> <tr> <td>Dolomite</td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td>Tr</td> </tr> <tr> <td>Inorganic calcite</td> <td>5</td> </tr> <tr> <td>Mica</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>85</td> </tr> <tr> <td>Silicoflagellates</td> <td>10</td> </tr> <tr> <td>Sponge spicules</td> <td>Tr</td> </tr> </table>	Sand	3	Silt	135	Clay	D	Sand	1	Silt	5	Clay	94	Access. minerals	Tr	Dolomite	Tr	Foraminifers	Tr	Inorganic calcite	5	Mica	Tr	Nannofossils	85	Silicoflagellates	10	Sponge spicules	Tr
Sand	3																																									
Silt	135																																									
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Access. minerals	Tr																																									
Dolomite	Tr																																									
Foraminifers	Tr																																									
Inorganic calcite	5																																									
Mica	Tr																																									
Nannofossils	85																																									
Silicoflagellates	10																																									
Sponge spicules	Tr																																									
					● $\phi=57.3$			2																																		
								3																																		
					● $\phi=57.3$			4																																		
					O			CC																																		

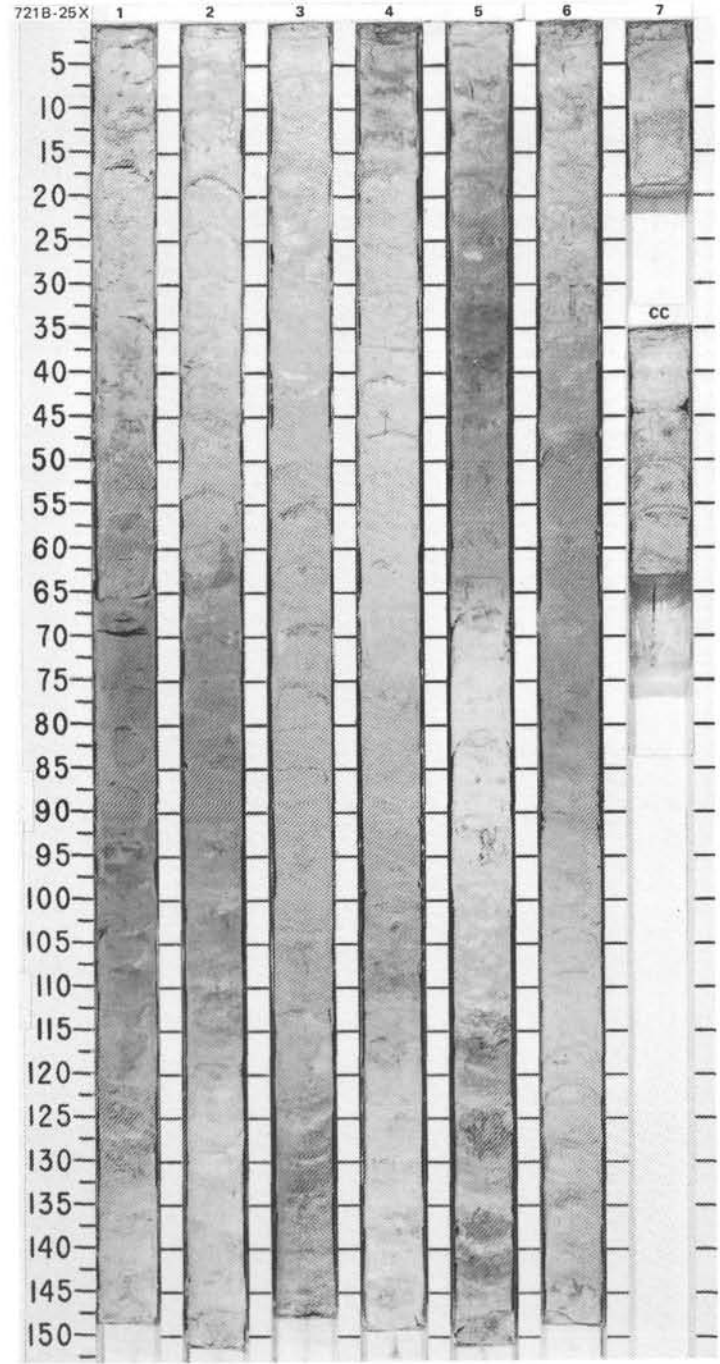


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																										
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																		
MIOCENE																																																					
*C/M	N16 - N17	NN11 <i>Discoaster quinqueramus</i>		● $\phi=54.4$	$\gamma=1.52$		1				<p>NANNOFOSSIL CHALK</p> <p>Drilling biscuits forming; slightly disturbed throughout. CC very disturbed.</p> <p>Major lithology: NANNOFOSSIL CHALK. Alternating light and dark layers. Color ranges from light gray (5Y 7/1), light olive gray (5Y 6/2), and pale olive (5Y 6/3) to olive (5Y 4/3, 5/3). Bioturbation absent to minor. Dark layers generally have 10-20% more terrigenous silty clay than do light layers.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2, 11</td> <td>2, 96</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>Tr</td> <td></td> </tr> <tr> <td>Silt</td> <td>5</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>95</td> <td>90</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. minerals</td> <td></td> <td>Tr</td> </tr> <tr> <td>Diatoms</td> <td>Tr</td> <td></td> </tr> <tr> <td>Foraminifers</td> <td>5</td> <td>Tr</td> </tr> <tr> <td>Inorganic calcite</td> <td>3</td> <td>2</td> </tr> <tr> <td>Nannofossils</td> <td>92</td> <td>88</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Silicoflagellates</td> <td>Tr</td> <td>10</td> </tr> <tr> <td>Sponge spicules</td> <td></td> <td>Tr</td> </tr> </table>		2, 11	2, 96		D	D	Sand	Tr		Silt	5	10	Clay	95	90	Access. minerals		Tr	Diatoms	Tr		Foraminifers	5	Tr	Inorganic calcite	3	2	Nannofossils	92	88	Quartz	Tr	Tr	Radiolarians	Tr	Tr	Silicoflagellates	Tr	10	Sponge spicules		Tr
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Sponge spicules		Tr																																																			
A/G		C/G <i>Stichocorys peregrina</i>		● $\phi=69.5$	$\gamma=1.89$		2																																														
*C/G				● $\phi=8.13$	$\gamma=0.56$		3																																														
		Chronozone 5					4																																														
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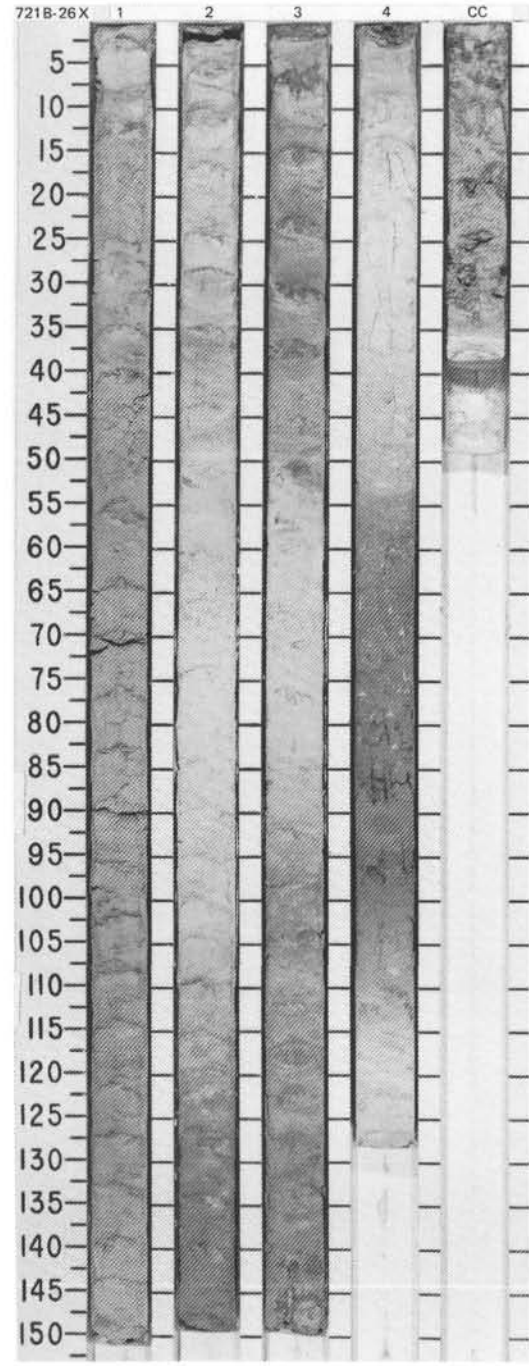


SITE 721 HOLE B CORE 25X CORED INTERVAL 2175.3-2184.9 mbsi; 230.5-240.1 mbsf

MIOCENE																																									
#C/M N16 - N17	BIOSTRAT. ZONE/ FOSSIL CHARACTER																																								
#A/G NN11 <i>Discoaster quinqueramus</i>	FORAMINIFERS NANNOFOSSILS RADIOLIARIANS DIATOMS																																								
#C/G C1G*	<i>Didymocyrtilis penultima</i>																																								
	PALEOMAGNETICS																																								
	PHYS. PROPERTIES																																								
	CHEMISTRY																																								
	SECTION	METERS																																							
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	NANNOFOSSIL CHALK to FORAMINIFER-BEARING NANNOFOSSIL CHALK Drilling biscuits throughout; slightly disturbed. Major lithology: NANNOFOSSIL CHALK to FORAMINIFER-BEARING NANNOFOSSIL CHALK. Alternating light and dark layers. Colors range from light gray (5Y 7/1), gray (5Y 6/1), light olive gray (5Y 6/2), to olive (5Y 5/3). Light layers generally have less terrigenous silty clay than do dark layers. SMEAR SLIDE SUMMARY (%): <table border="1"> <tr> <td></td> <td>1, 91</td> <td>5, 85</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> </tr> </table> TEXTURE: Sand 1 Silt 15 20 Clay 85 79 COMPOSITION: <table border="1"> <tr> <td>Diatoms</td> <td>Tr</td> <td></td> </tr> <tr> <td>Dolomite</td> <td>Tr</td> <td></td> </tr> <tr> <td>Foraminifers</td> <td></td> <td>5</td> </tr> <tr> <td>Volcanic glass</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Inorganic calcite</td> <td>10</td> <td>5</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td></td> </tr> <tr> <td>Nannofossils</td> <td>85</td> <td>85</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> <td>2</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>1</td> </tr> <tr> <td>Silicoflagellates</td> <td>5</td> <td>2</td> </tr> <tr> <td>Sponge spicules</td> <td>Tr</td> <td>Tr</td> </tr> </table>			1, 91	5, 85	D		D	Diatoms	Tr		Dolomite	Tr		Foraminifers		5	Volcanic glass	Tr	Tr	Inorganic calcite	10	5	Mica	Tr		Nannofossils	85	85	Quartz	Tr	2	Radiolarians	Tr	1	Silicoflagellates	5	2	Sponge spicules	Tr	Tr
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Foraminifers		5																																							
Volcanic glass	Tr	Tr																																							
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Mica	Tr																																								
Nannofossils	85	85																																							
Quartz	Tr	2																																							
Radiolarians	Tr	1																																							
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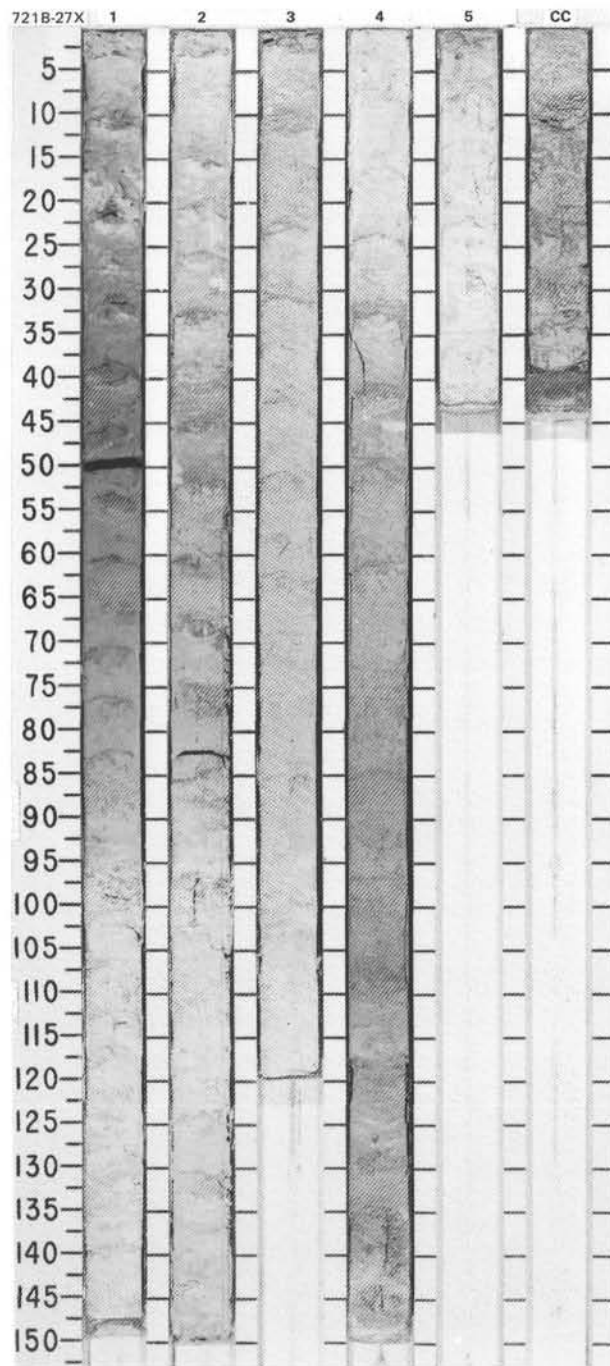


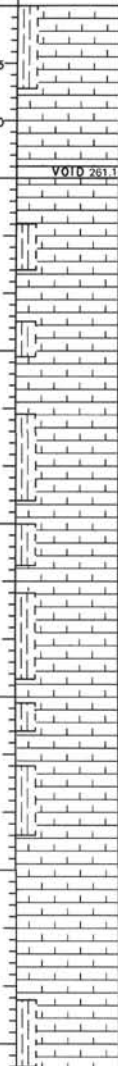
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																										
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																				
MIOCENE	N16 - N17	NN11 <i>Discoaster quinqueramus</i>			● $\phi=0.1.2$ $\gamma=1.67$			1	0.5 1.0					<p>NANNOFOSSIL CHALK</p> <p>Drilling biscuits throughout; slightly disturbed.</p> <p>Major lithology: NANNOFOSSIL CHALK. Alternating light and dark layers, ranging from light olive gray (5Y 6/2) to light gray (5Y 7/1) for light layers, and olive (5Y 5/3) to pale olive (5Y 6/3) for dark layers. Light layers generally have less terrigenous silty clay than do dark layers.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2, 59</td> <td>4, 11</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Silt</td> <td>5</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>95</td> <td>95</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Diatoms</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td>Tr</td> <td>5</td> </tr> <tr> <td>Volcanic glass</td> <td></td> <td>Tr</td> </tr> <tr> <td>Inorganic calcite</td> <td>3</td> <td>2</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>95</td> <td>93</td> </tr> <tr> <td>Quartz</td> <td></td> <td>Tr</td> </tr> <tr> <td>Radiolarians</td> <td></td> <td>Tr</td> </tr> <tr> <td>Silicoflagellates</td> <td>2</td> <td>Tr</td> </tr> <tr> <td>Sponge spicules</td> <td>Tr</td> <td></td> </tr> </table>		2, 59	4, 11		D	D	Silt	5	5	Clay	95	95	Diatoms	Tr	Tr	Foraminifers	Tr	5	Volcanic glass		Tr	Inorganic calcite	3	2	Mica	Tr	Tr	Nannofossils	95	93	Quartz		Tr	Radiolarians		Tr	Silicoflagellates	2	Tr	Sponge spicules	Tr	
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Sponge spicules	Tr																																																							
	* C/G	* C/G			● $\phi=0.80$ $\gamma=1.9.2$	● $\phi=0.22$	2																																																	
					● $\phi=0.9.2$		3																																																	
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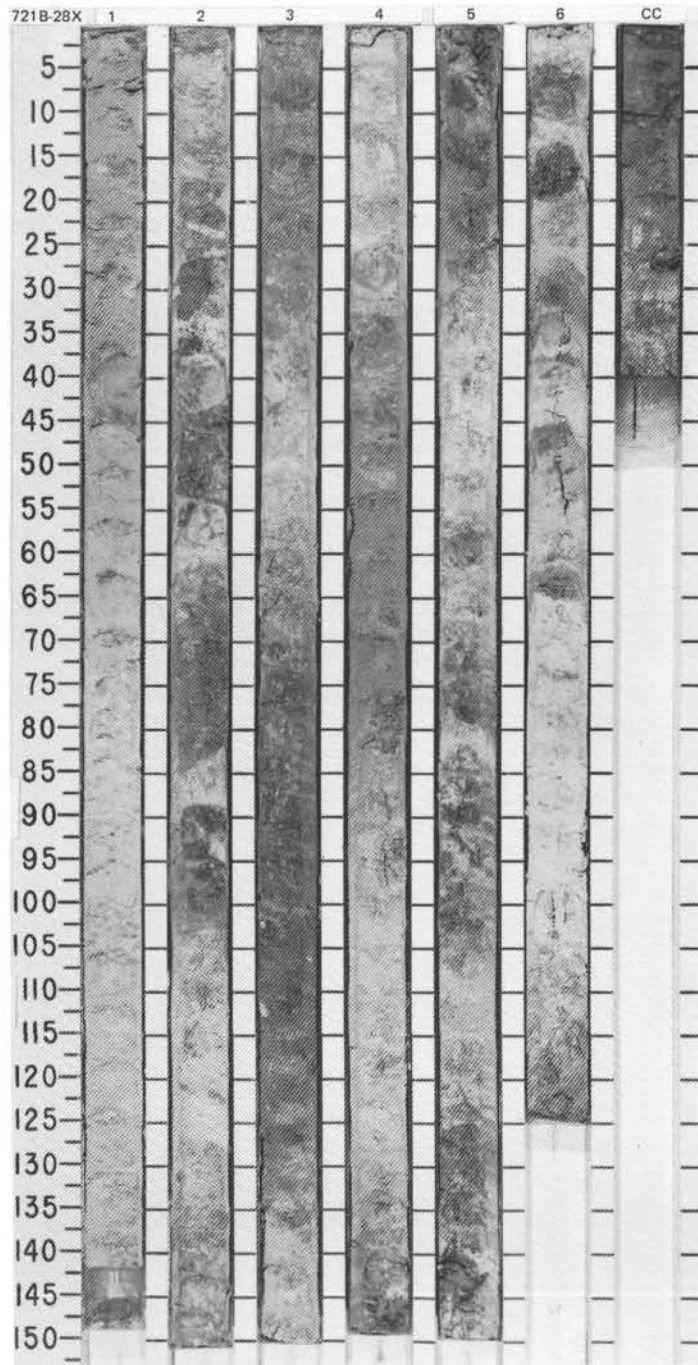


SITE 721 HOLE B CORE 27X CORED INTERVAL 2194.6-2204.4mbsl; 249.8-259.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																							
MIOCENE											<p>NANNOFOSSIL CHALK</p> <p>Section 1, 0-2 and 15-21 cm, soupy; void in Section 1, 48-50 cm; drilling biscuits throughout; slightly disturbed.</p> <p>Major lithology: NANNOFOSSIL CHALK. Alternating light and dark layers, ranging from light olive gray (5Y 6/2) to light gray (5Y 7/1) for light layers, and olive (5Y 5/3) to olive gray (5Y 5/2) for dark layers. Light layers generally have less terrigenous silty clay than do dark layers.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table> <tr> <td></td> <td>3, 113</td> <td>4, 104</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table> <tr> <td>Silt</td> <td>3</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>97</td> <td>90</td> </tr> </table> <p>COMPOSITION:</p> <table> <tr> <td>Access. minerals</td> <td></td> <td>Tr</td> </tr> <tr> <td>Diatoms</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Foraminifera</td> <td>3</td> <td></td> </tr> <tr> <td>Inorganic calcite</td> <td>3</td> <td>4</td> </tr> <tr> <td>Nannofossils</td> <td>94</td> <td>90</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Silicoflagellates</td> <td>Tr</td> <td>1</td> </tr> <tr> <td>Sponge spicules</td> <td>Tr</td> <td>5</td> </tr> </table>		3, 113	4, 104	D	D	D	Silt	3	10	Clay	97	90	Access. minerals		Tr	Diatoms	Tr	Tr	Foraminifera	3		Inorganic calcite	3	4	Nannofossils	94	90	Quartz	Tr	Tr	Radiolarians	Tr	Tr	Silicoflagellates	Tr	1	Sponge spicules	Tr	5
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Sponge spicules	Tr	5																																																
*C/M	N16 - N17	●	● 0-85.3 γ-1.58		1	0.5																																												
*A/M	Discoster quinqueramus		● 0-80.6 γ-1.61		2	1.0																																												
*C/G	hiatus * C/G <i>Didymocypris penultima</i>	○	● 0-8.19 ● 0-0.25		3																																													
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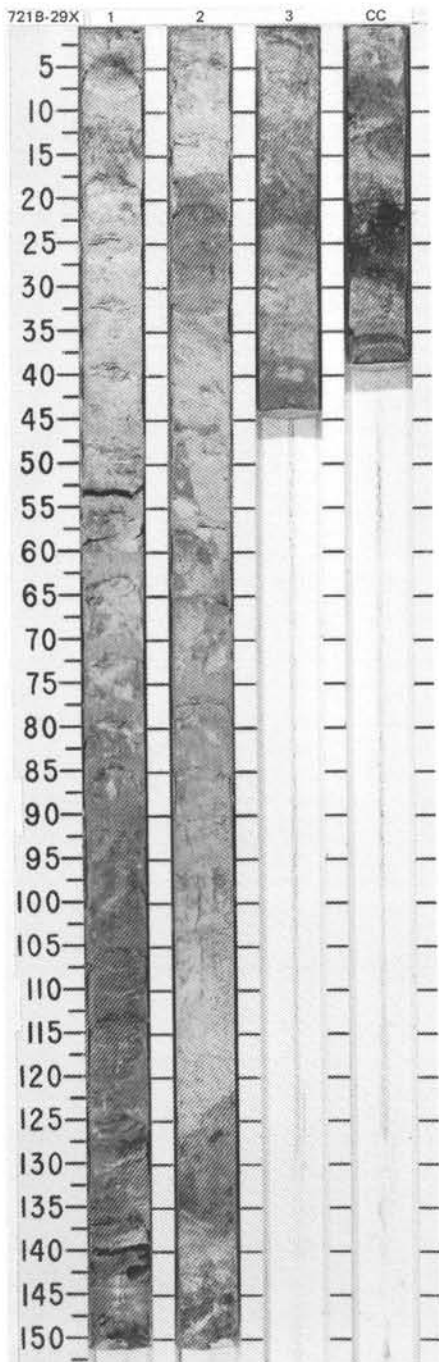


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																								
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*F/M *A/M *C/G	MIOCENE N15 NN10 <i>Discosaster calcaris</i> * C/G <i>Diartus petterssoni</i>	A/G *	* A/M NN11		• ϕ=88.0 γ=1.63		0.5				*	<p>NANNOFOSSIL CHALK</p> <p>Void in Section 1, 140-150 cm; drilling biscuits throughout; slightly disturbed.</p> <p>Major lithology: NANNOFOSSIL CHALK. Alternating light and dark layers, ranging from light olive gray (5Y 6/2) and light gray (5Y 7/1) to white (5Y 8/1) for light layers, and olive (5Y 5/3, 4/3) and pale olive (5Y 6/3) to olive gray (5Y 4/2, 5/2) for dark layers. Light layers generally have 10-20% less terrigenous silty clay than do dark layers.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr><td>1,91</td><td>6,85</td></tr> <tr><td>D</td><td>D</td></tr> </table> <p>TEXTURE:</p> <table border="1"> <tr><td>Sand</td><td>5</td><td></td></tr> <tr><td>Silt</td><td>5</td><td></td></tr> <tr><td>Clay</td><td>90</td><td>100</td></tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr><td>Access. minerals</td><td>Tr</td><td></td></tr> <tr><td>Diatoms</td><td>Tr</td><td>Tr</td></tr> <tr><td>Foraminifers</td><td>Tr</td><td></td></tr> <tr><td>Inorganic calcite</td><td>7</td><td></td></tr> <tr><td>Mica</td><td>Tr</td><td></td></tr> <tr><td>Nannofossils</td><td>90</td><td>100</td></tr> <tr><td>Radiolarians</td><td>1</td><td></td></tr> <tr><td>Silicoflagellates</td><td>2</td><td>Tr</td></tr> <tr><td>Sponge spicules</td><td>Tr</td><td>Tr</td></tr> </table>	1,91	6,85	D	D	Sand	5		Silt	5		Clay	90	100	Access. minerals	Tr		Diatoms	Tr	Tr	Foraminifers	Tr		Inorganic calcite	7		Mica	Tr		Nannofossils	90	100	Radiolarians	1		Silicoflagellates	2	Tr	Sponge spicules	Tr	Tr
							1,91						6,85																																							
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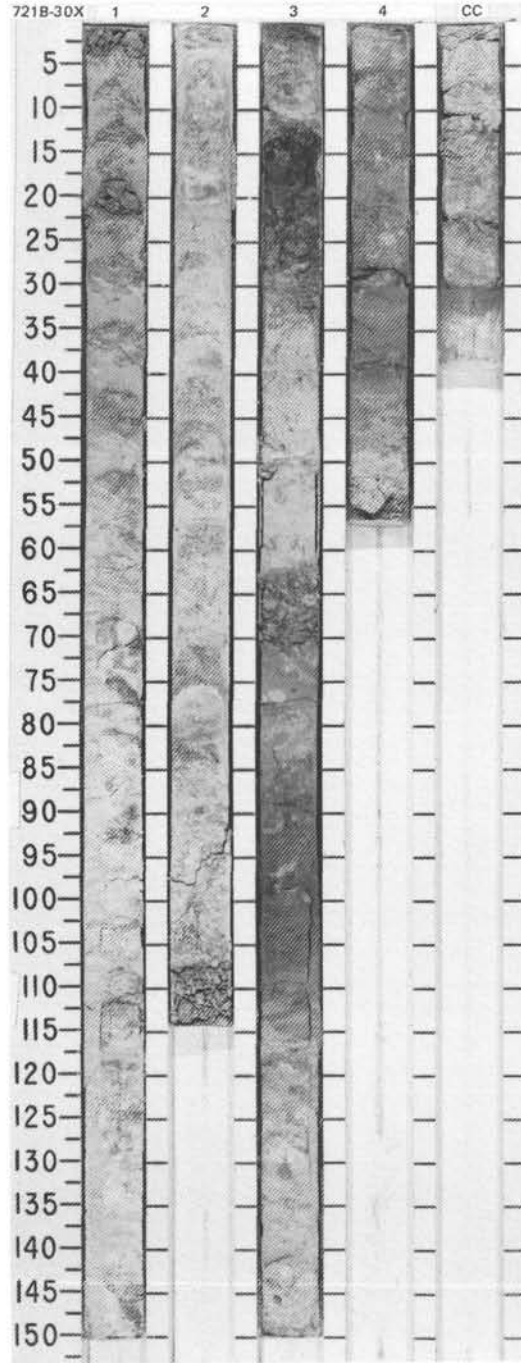


SITE 721 HOLE B CORE 29X CORED INTERVAL 2214.2-2224.0 mbsl; 269.4-279.2 mbsf

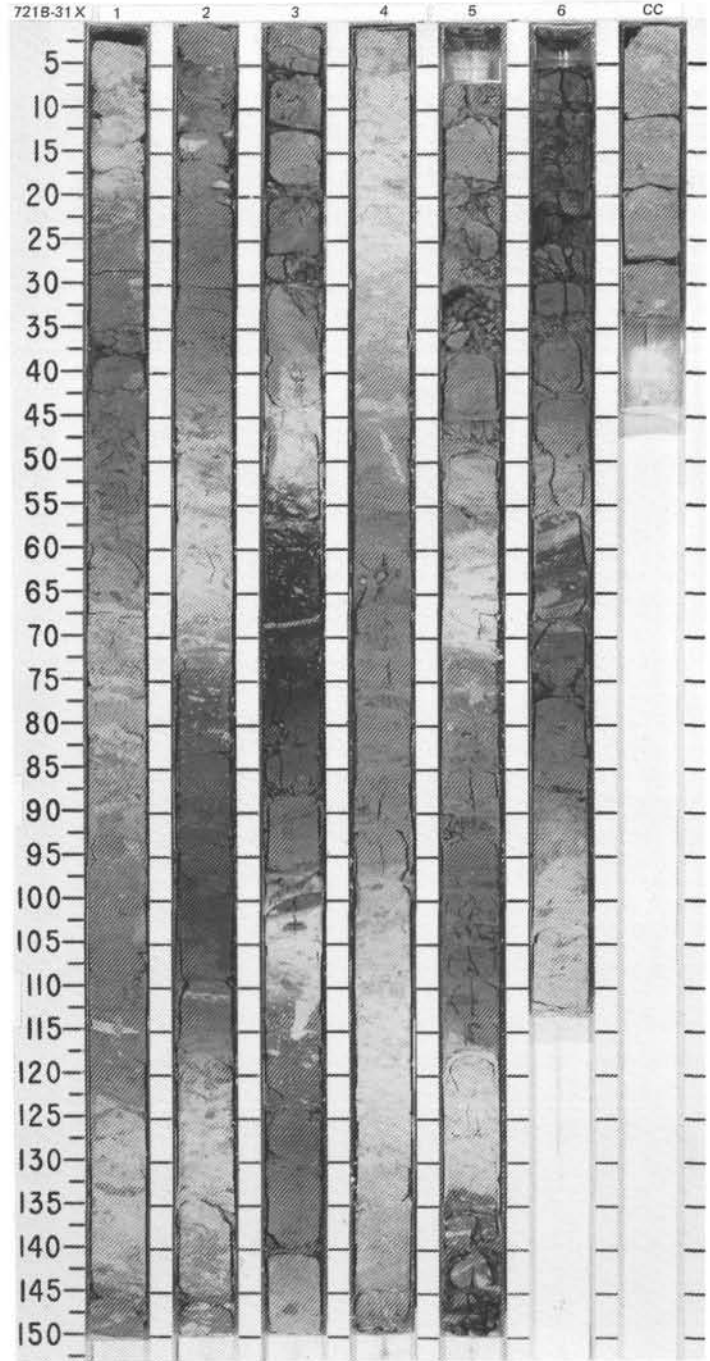
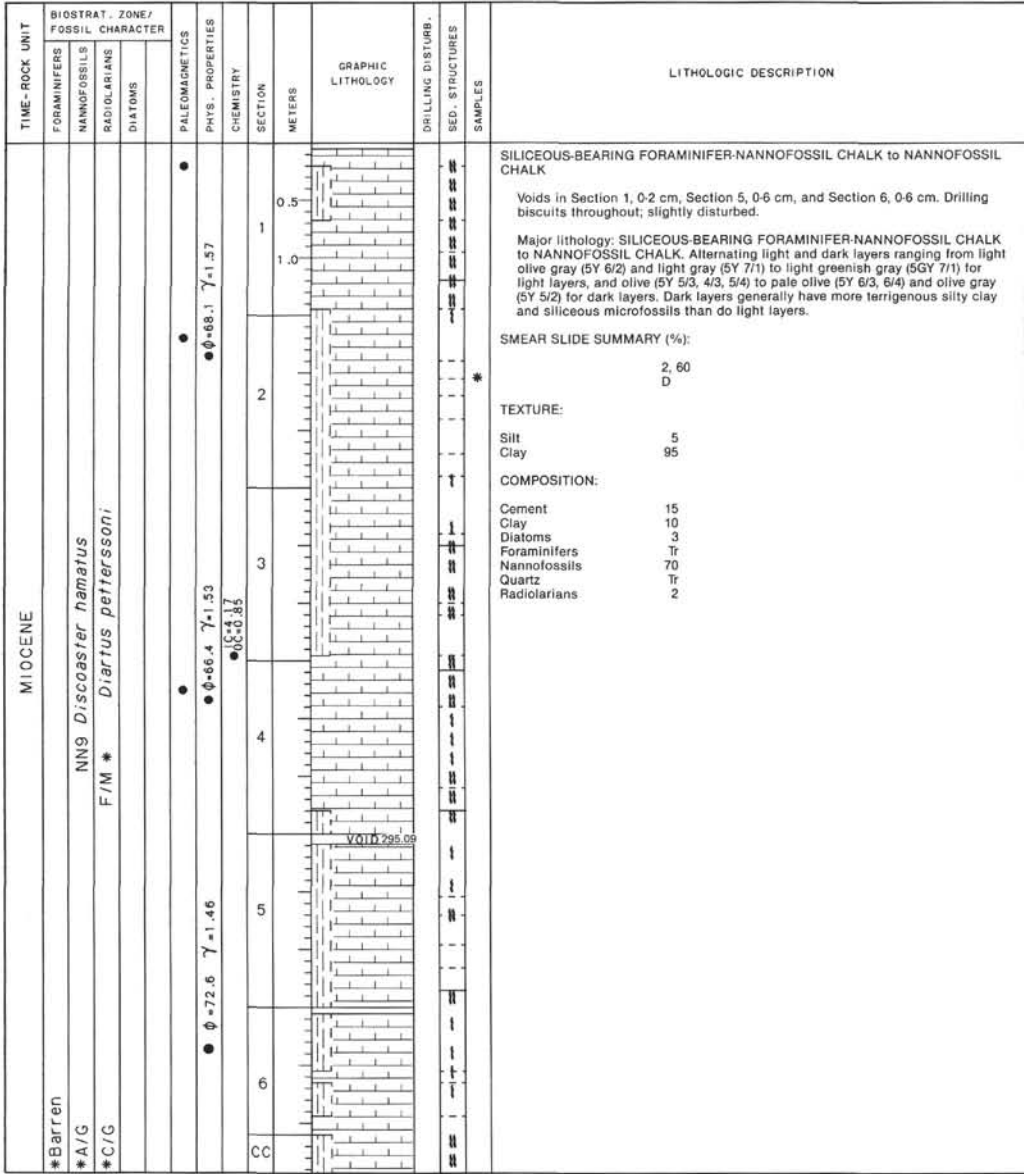
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																										
MIOCENE	N15 NN10 <i>Discoaster calcaris</i> * <i>Diarctus petterssoni</i> * * C/G *	O	● $\phi = 1.9$ ● $\phi = 1.88$ ● IC=7.46 ● DC=0.43		1 2 3 CC	0.5 1.0			*	<p>NANNOFOSSIL CHALK</p> <p>Void in Section 1, 143-150 cm; possible wash in Section 1, 0-4 cm; drilling biscuits throughout; slightly disturbed.</p> <p>Major lithology: NANNOFOSSIL CHALK. Alternating light and dark layers, ranging from light olive gray (5Y 6/2) and light gray (5Y 7/1) to white (5Y 8/1) for light layers, and olive (5Y 5/3, 4/3) and pale olive (5Y 6/3) to olive gray (5Y 5/2, 4/2) for dark layers. Light layers generally have 10-20% less terrigenous silty clay than do dark layers.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr><td>Sand</td><td>1</td></tr> <tr><td>Silt</td><td>26</td></tr> <tr><td>Clay</td><td>D</td></tr> </table> <p>TEXTURE:</p> <table border="1"> <tr><td>Sand</td><td>2</td></tr> <tr><td>Silt</td><td>8</td></tr> <tr><td>Clay</td><td>90</td></tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr><td>Diatoms</td><td>Tr</td></tr> <tr><td>Foraminifers</td><td>Tr</td></tr> <tr><td>Inorganic calcite</td><td>10</td></tr> <tr><td>Nannofossils</td><td>90</td></tr> <tr><td>Radiolarians</td><td>Tr</td></tr> <tr><td>Silicoflagellates</td><td>Tr</td></tr> <tr><td>Sponge spicules</td><td>Tr</td></tr> </table>	Sand	1	Silt	26	Clay	D	Sand	2	Silt	8	Clay	90	Diatoms	Tr	Foraminifers	Tr	Inorganic calcite	10	Nannofossils	90	Radiolarians	Tr	Silicoflagellates	Tr	Sponge spicules	Tr
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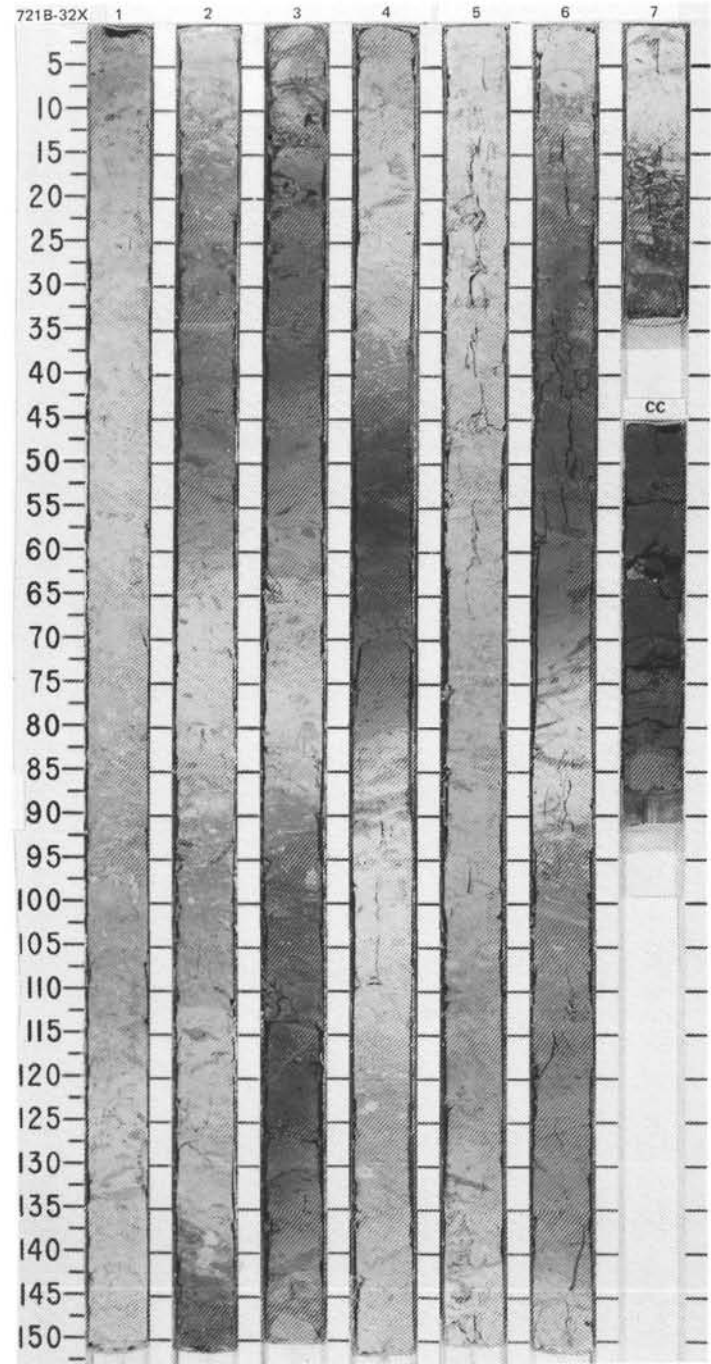
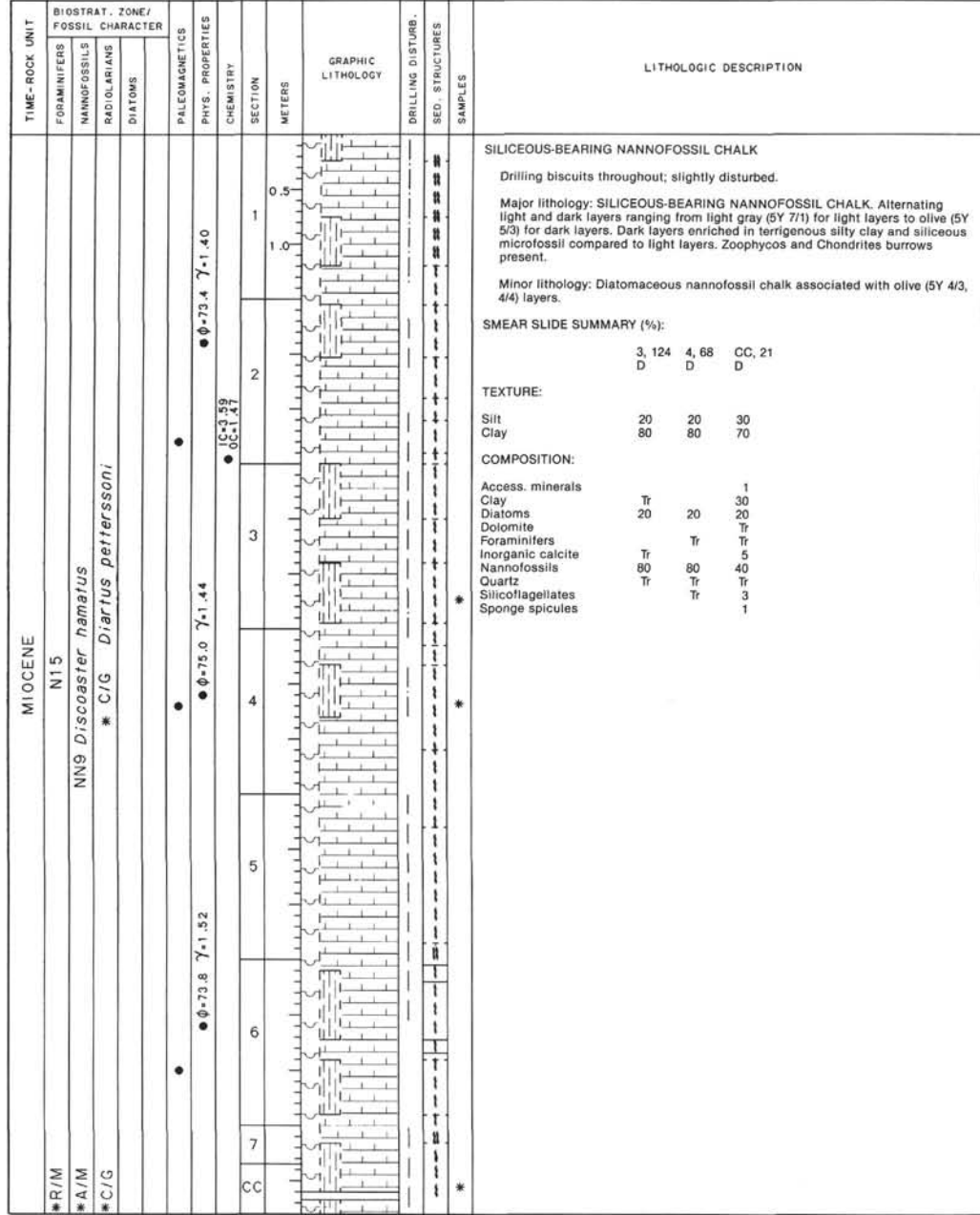


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																
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MIOCENE														<p>NANNOFOSSIL CHALK to FORAMINIFER-BEARING NANNOFOSSIL CHALK</p> <p>Drilling biscuits throughout; slightly disturbed.</p> <p>Major lithology: NANNOFOSSIL CHALK to FORAMINIFER-BEARING NANNOFOSSIL CHALK. Alternating light and dark layers, ranging from light olive gray (5Y 6/2) to light gray (5Y 7/1, 6/1) and light greenish gray (5G 7/1) to light bluish gray (5B 7/1) for light layers, and olive (5Y 4/3) to olive gray (5Y 5/2) for dark layers. Light layers generally have less terrigenous silty clay than do dark layers. Some layers seem brecciated, especially in Section 2, 107-115 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 90</td> <td>3, 45</td> </tr> <tr> <td></td> <td>M</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>5</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>10</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>85</td> <td>90</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. minerals</td> <td>Tr</td> <td></td> </tr> <tr> <td>Diatoms</td> <td></td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td>5</td> <td>5</td> </tr> <tr> <td>Volcanic glass</td> <td></td> <td>Tr</td> </tr> <tr> <td>Inorganic calcite</td> <td></td> <td>5</td> </tr> <tr> <td>Nannofossils</td> <td>85</td> <td>90</td> </tr> <tr> <td>Plant debris</td> <td>3</td> <td></td> </tr> <tr> <td>Quartz</td> <td></td> <td>Tr</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Silicoflagellates</td> <td>7</td> <td>Tr</td> </tr> <tr> <td>Sponge spicules</td> <td>Tr</td> <td>Tr</td> </tr> </table>		1, 90	3, 45		M	D	Sand	5	5	Silt	10	5	Clay	85	90	Access. minerals	Tr		Diatoms		Tr	Foraminifers	5	5	Volcanic glass		Tr	Inorganic calcite		5	Nannofossils	85	90	Plant debris	3		Quartz		Tr	Radiolarians	Tr	Tr	Silicoflagellates	7	Tr	Sponge spicules	Tr	Tr
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	* C/M	NN10				● $\phi=57.2$ $\gamma=1.81$		1																																																						
	* A/M	* A/M - G				● IC-9-22 OC-0-14		2																																																						
	* C/G	<i>Diartus petterssoni</i>						3																																																						
						● $\phi=73.7$ $\gamma=1.48$		4																																																						
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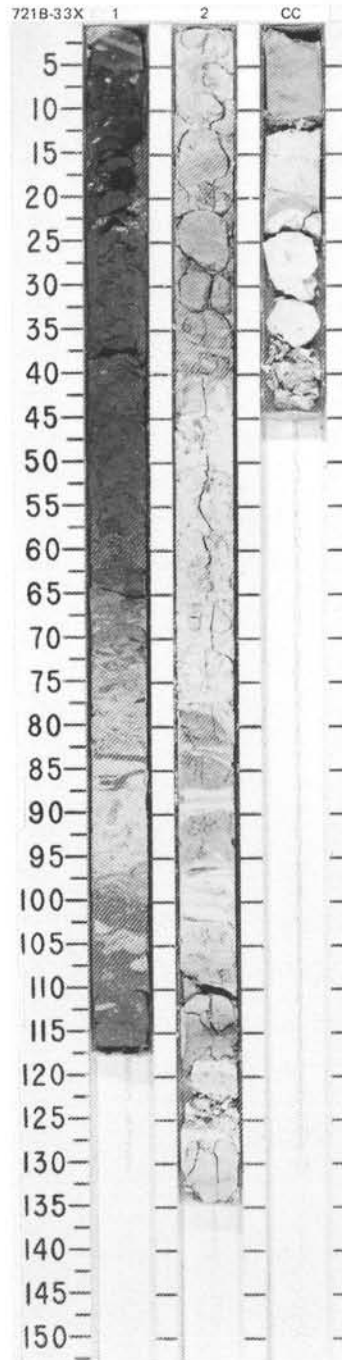
SITE 721 HOLE B CORE 31X CORED INTERVAL 2233.8-2243.6 mbsl: 289.0-298.8 mbsf

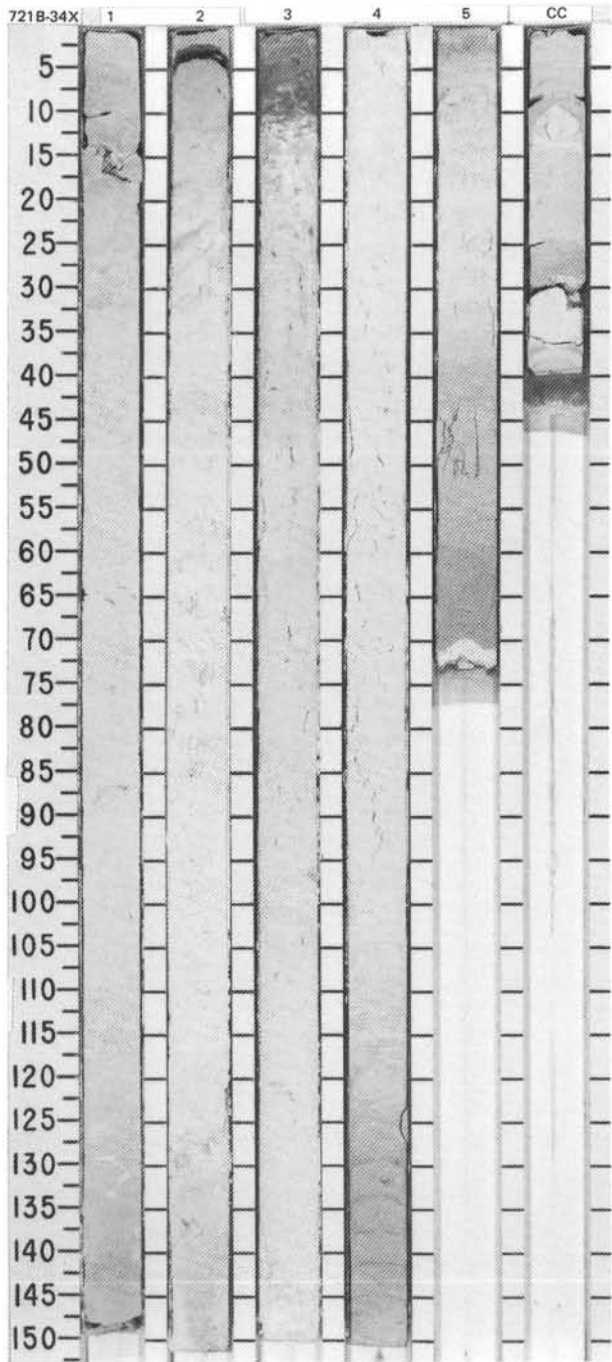
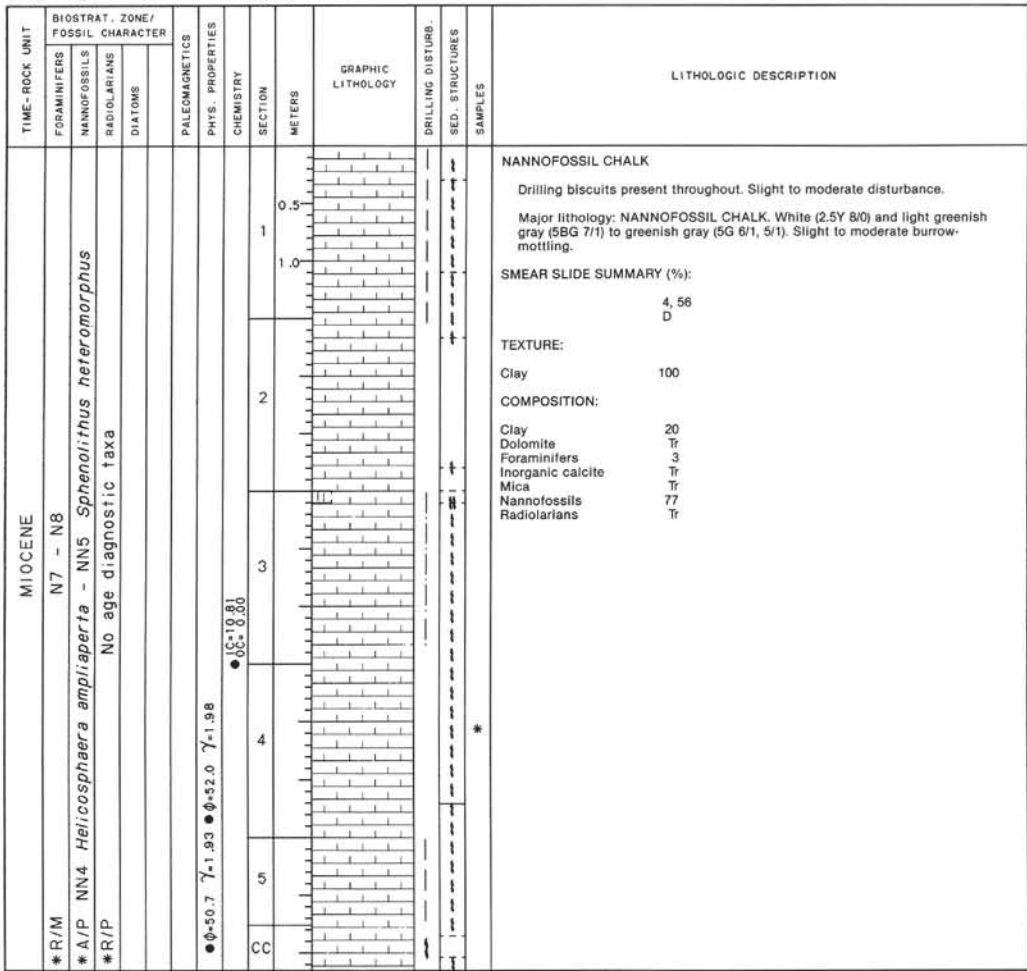




SITE 721 HOLE B CORE 33X CORED INTERVAL 2253.2-2262.8 mbsf; 308.4-318.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS									
MIOCENE	*C/G	N7 - N8									DIATOMACEOUS NANNOFOSSIL CHALK to NANNOFOSSIL CHALK Drilling biscuits throughout; moderately disturbed. Major lithology: a. Diatomaceous nannofossil chalk, in Section 1. Alternating light and dark layers, ranging from light gray (5Y 7/1) for light layers to olive (5Y 5/3) for dark layers. Dark layers are enriched in terrigenous silty clay and siliceous microfossils compared to light layers. b. Nannofossil chalk, light greenish gray (5BG 7/1) to greenish gray (5G 6/1), in Section 2 and CC. Slight to moderate burrow-mottling. Transition from lithologic Units II to III is located at the base of Section 1. SMEAR SLIDE SUMMARY (%): 2, 126 M TEXTURE: Clay 100 COMPOSITION: Diatoms Tr Dolomite Tr Foraminifers Tr Inorganic calcite Tr Nannofossils 100 Quartz Tr Radiolarians Tr Silicoflagellates Tr Sponge spicules Tr
	*A/P	NN5 <i>Sphenolithus heteromorphus</i>		$\phi=68.1$ $\gamma=1.57$	IC-3.06 CC-1.00	1 2 CC	0.5 1.0			OG IW	
	*R/P	No age diagnostic taxa		$\phi=49.4$ $\gamma=1.99$							

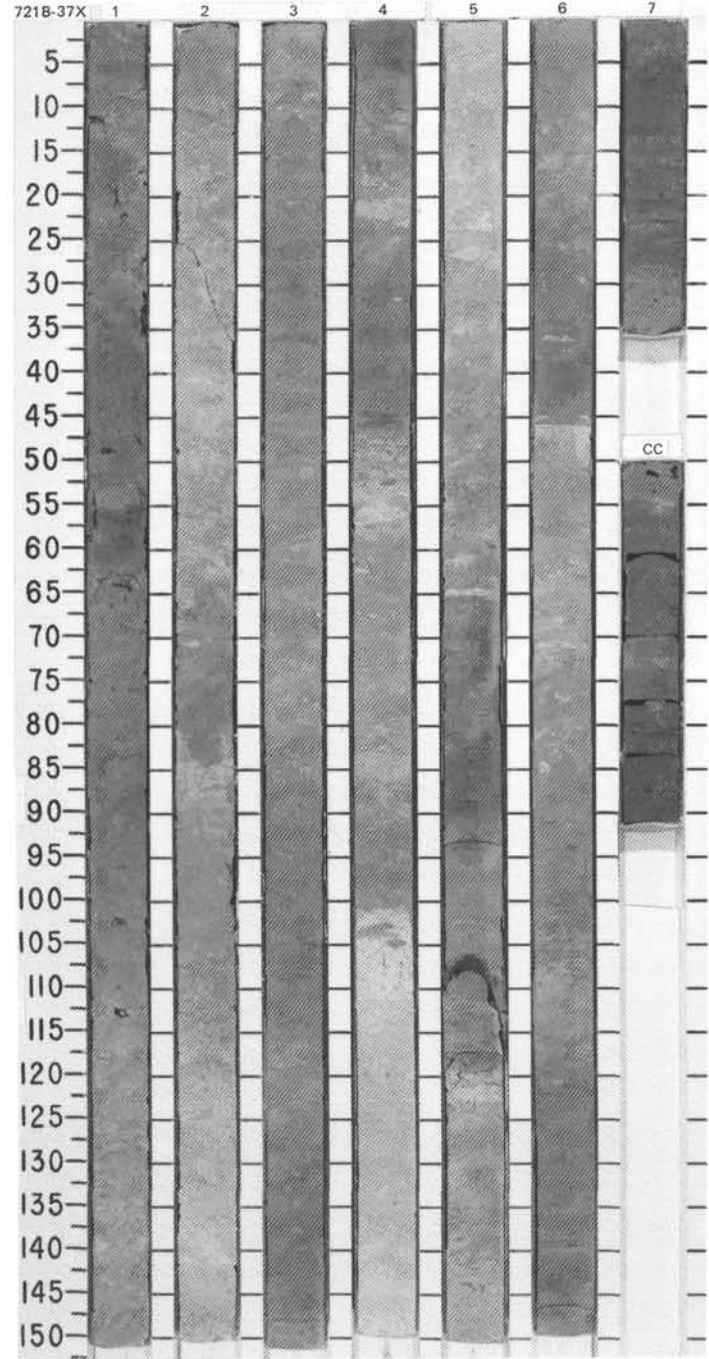




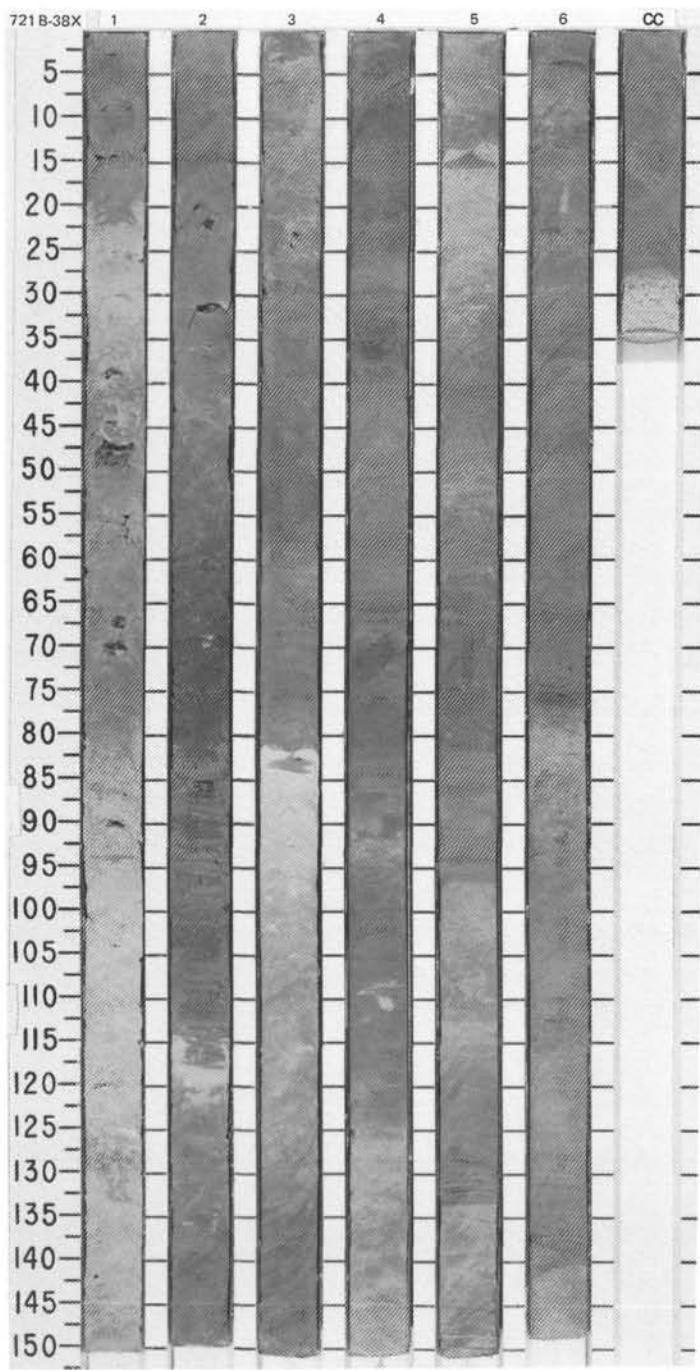
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																											
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																					
MIOCENE	*R/M N7 - N8													<p>NANNOFOSSIL CHALK</p> <p>Voids in Section 1, 0-6 cm; Section 2, 0-5 cm; and Section 3, 0-2 cm. Section 1, 6-11 cm, very disturbed. Drilling biscuits present throughout. Remainder of core has slight to moderate disturbance.</p> <p>Major lithology: NANNOFOSSIL CHALK, white (2.5Y 8/0) and light greenish gray (5B 7/1, 5BG 7/1) to greenish gray (5G 6/1, 5BG 6/1). Slight to moderate burrow-mottling. Pyrite grains on core face at Section 1, 35 cm, and Section 3, 20-21 cm.</p> <p>Minor lithology: Marly nannofossil chalk, light brownish gray (2.5Y 6/2), found in CC from 33 to 38 cm. This indicates the transition from lithologic Units III to IV.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>CC, 15 D</th> <th>CC, 36 M</th> </tr> </thead> <tbody> <tr> <td>TEXTURE:</td> <td></td> <td></td> </tr> <tr> <td>Silt</td> <td>5</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>95</td> <td>90</td> </tr> <tr> <td>COMPOSITION:</td> <td></td> <td></td> </tr> <tr> <td>Clay</td> <td>10</td> <td>10</td> </tr> <tr> <td>Inorganic calcite</td> <td>10</td> <td>10</td> </tr> <tr> <td>Nannofossils</td> <td>80</td> <td>70</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> <td>10</td> </tr> </tbody> </table>		CC, 15 D	CC, 36 M	TEXTURE:			Silt	5	10	Clay	95	90	COMPOSITION:			Clay	10	10	Inorganic calcite	10	10	Nannofossils	80	70	Quartz	Tr	10
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	*A/P NN4 <i>Helicosphaera ampliapertura</i> - NN5 <i>Sphenolithus heteromorphus</i>							1	0.5																																
	* Barren							2	1.0																																
								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																																																								
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* Barren												<p>NANNOFOSSIL CHALK, MARLY NANNOFOSSIL CHALK, CALCAREOUS SILTY CLAYSTONE, and SILTY CLAYSTONE</p> <p>Moderate drilling disturbance. Drilling biscuits common.</p> <p>Major lithology: Interbedded NANNOFOSSIL CHALK, MARLY NANNOFOSSIL CHALK, CALCAREOUS SILTY CLAYSTONE, and SILTY CLAYSTONE. Sequences grade from greenish gray (5GY 5/1, 5G 5/1) SILTY CLAYSTONE with sharp contacts at the base to yellowish brown (10YR 5/4), dark yellowish brown (10YR 4/4), olive (5Y 4/3), and olive gray (5Y 5/2) SILTY CLAYSTONE and CALCAREOUS SILTY CLAYSTONE to light gray (10YR 7/1) MARLY NANNOFOSSIL CHALK and NANNOFOSSIL CHALK. Slight mottling in the CHALK and CALCAREOUS SILTY CLAYSTONE.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 110</td> <td>4, 44</td> <td>6, 44</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>Silt</td> <td>5</td> <td>20</td> <td>20</td> </tr> <tr> <td>Clay</td> <td>95</td> <td>80</td> <td>80</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. minerals</td> <td></td> <td>5</td> <td></td> </tr> <tr> <td>Clay</td> <td></td> <td>15</td> <td>15</td> </tr> <tr> <td>Dolomite</td> <td></td> <td>Tr</td> <td></td> </tr> <tr> <td>Feldspar</td> <td></td> <td>10</td> <td></td> </tr> <tr> <td>Foraminifers</td> <td></td> <td>Tr</td> <td></td> </tr> <tr> <td>Gypsum</td> <td>5</td> <td>5</td> <td></td> </tr> <tr> <td>Inorganic calcite</td> <td>10</td> <td>35</td> <td>30</td> </tr> <tr> <td>Mica</td> <td></td> <td>Tr</td> <td></td> </tr> <tr> <td>Nannofossils</td> <td>70</td> <td>5</td> <td>35</td> </tr> <tr> <td>Quartz</td> <td></td> <td>25</td> <td>20</td> </tr> </table>		1, 110	4, 44	6, 44	D	D	D	D	Silt	5	20	20	Clay	95	80	80	Access. minerals		5		Clay		15	15	Dolomite		Tr		Feldspar		10		Foraminifers		Tr		Gypsum	5	5		Inorganic calcite	10	35	30	Mica		Tr		Nannofossils	70	5	35	Quartz		25	20
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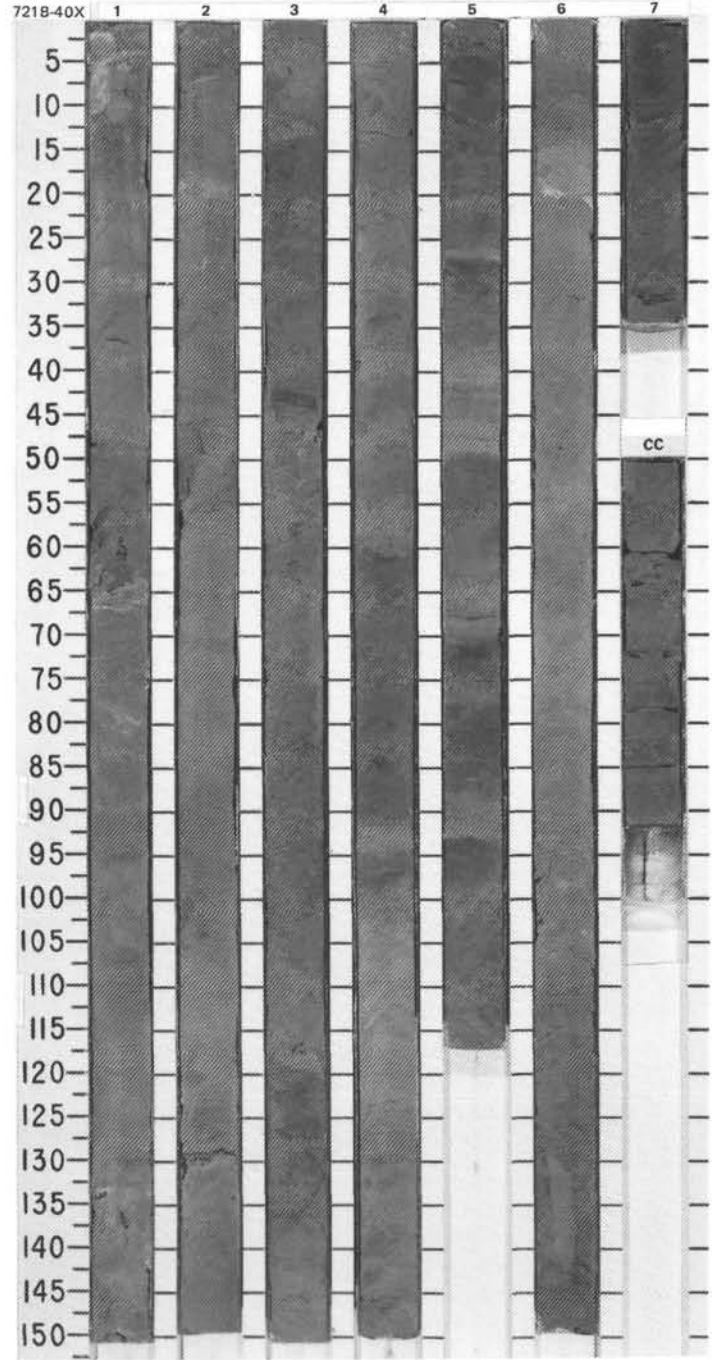
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																															
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONS																																																																																							
MIOCENE	* Barren	NN4 <i>Helicosphaera ampliaperta</i> - NN5 <i>Sphenolithus heteromorphus</i>				● ϕ -50.7 γ -1.98 ● ϕ -36.1 γ -2.72 ● ϕ -41.6 γ -2.08	0.5						<p>NANNOFOSSIL CHALK, MARLY NANNOFOSSIL CHALK, CALCAREOUS SILTY CLAYSTONE, and SILTY CLAYSTONE</p> <p>Moderate drilling disturbance. Drilling biscuits common.</p> <p>Major lithology: Interbedded NANNOFOSSIL CHALK, MARLY NANNOFOSSIL CHALK, CALCAREOUS SILTY CLAYSTONE, and SILTY CLAYSTONE. Sequences grade from greenish gray (5GY 5/1, 5G 5/1) SILTY CLAYSTONE with sharp contacts at the base to grayish brown (10YR 5/2), brown (10YR 5/3), dark brown (10YR 3/3), and olive (5Y 4/3, 5/3) SILTY CLAYSTONE and CALCAREOUS SILTY CLAYSTONE to light gray (10YR 7/1) marly NANNOFOSSIL CHALK and NANNOFOSSIL CHALK. Slight mottling in the CHALK and CALCAREOUS SILTY CLAYSTONE. Millimeter-sized layers of pyrite grains common between 83 and 150 cm in Section 5.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>1, 11 D</th> <th>1, 104 D</th> <th>2, 73 M</th> <th>3, 93 D</th> <th>6, 113 M</th> </tr> </thead> <tbody> <tr> <td>Silt</td> <td>20</td> <td>1</td> <td>20</td> <td>5</td> <td>50</td> </tr> <tr> <td>Clay</td> <td>80</td> <td>99</td> <td>80</td> <td>95</td> <td>50</td> </tr> </tbody> </table> <p>TEXTURE:</p> <p>COMPOSITION:</p> <table border="1"> <thead> <tr> <th></th> <th>1, 11 D</th> <th>1, 104 D</th> <th>2, 73 M</th> <th>3, 93 D</th> <th>6, 113 M</th> </tr> </thead> <tbody> <tr> <td>Access. minerals</td> <td></td> <td></td> <td>5</td> <td>Tr</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>70</td> <td>10</td> <td>50</td> <td>25</td> <td>35</td> </tr> <tr> <td>Dolomite</td> <td>Tr</td> <td></td> <td></td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td></td> <td></td> <td></td> <td>Tr</td> <td></td> </tr> <tr> <td>Volcanic glass</td> <td>Tr</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Inorganic calcite</td> <td>10</td> <td>3</td> <td>10</td> <td>5</td> <td>10</td> </tr> <tr> <td>Nannofossils</td> <td>10</td> <td>80</td> <td>25</td> <td>65</td> <td>Tr</td> </tr> <tr> <td>Pyrite</td> <td>Tr</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Quartz</td> <td>10</td> <td>2</td> <td>10</td> <td>5</td> <td>50</td> </tr> </tbody> </table>		1, 11 D	1, 104 D	2, 73 M	3, 93 D	6, 113 M	Silt	20	1	20	5	50	Clay	80	99	80	95	50		1, 11 D	1, 104 D	2, 73 M	3, 93 D	6, 113 M	Access. minerals			5	Tr	5	Clay	70	10	50	25	35	Dolomite	Tr			Tr	Tr	Foraminifers				Tr		Volcanic glass	Tr					Inorganic calcite	10	3	10	5	10	Nannofossils	10	80	25	65	Tr	Pyrite	Tr					Quartz	10	2	10	5	50
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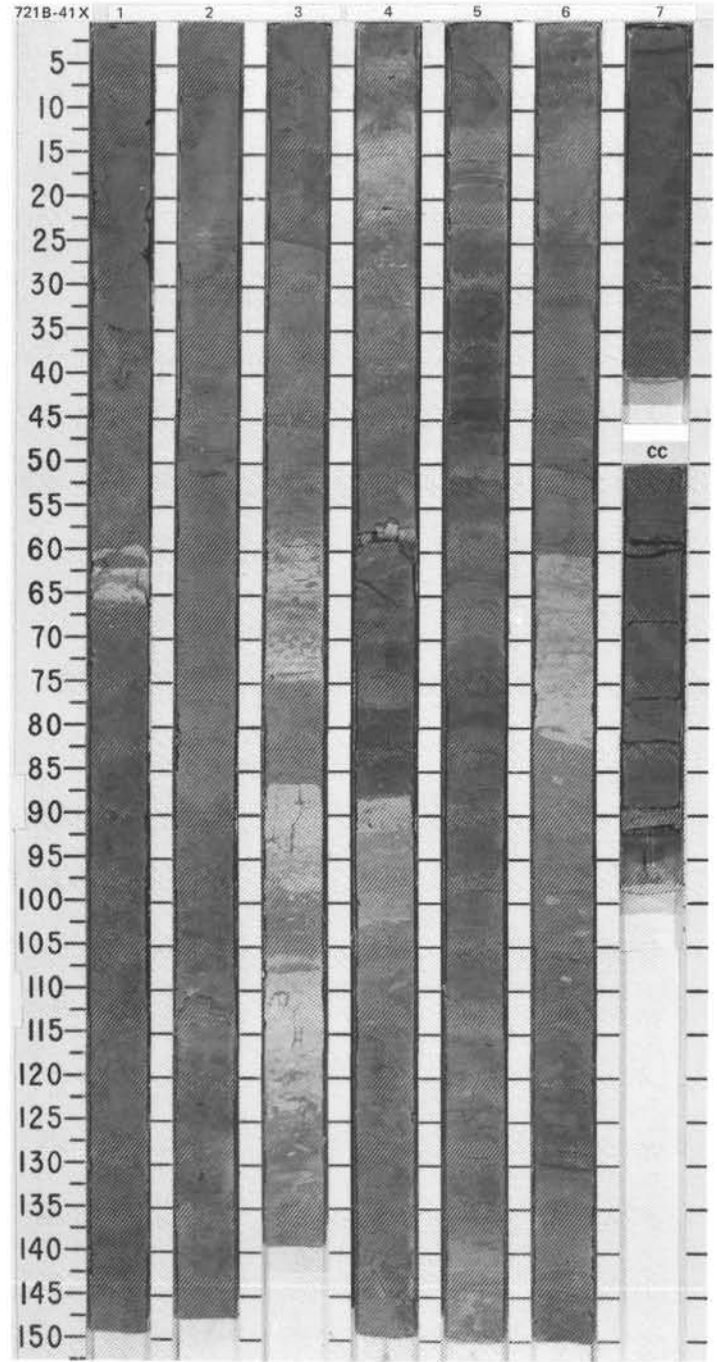
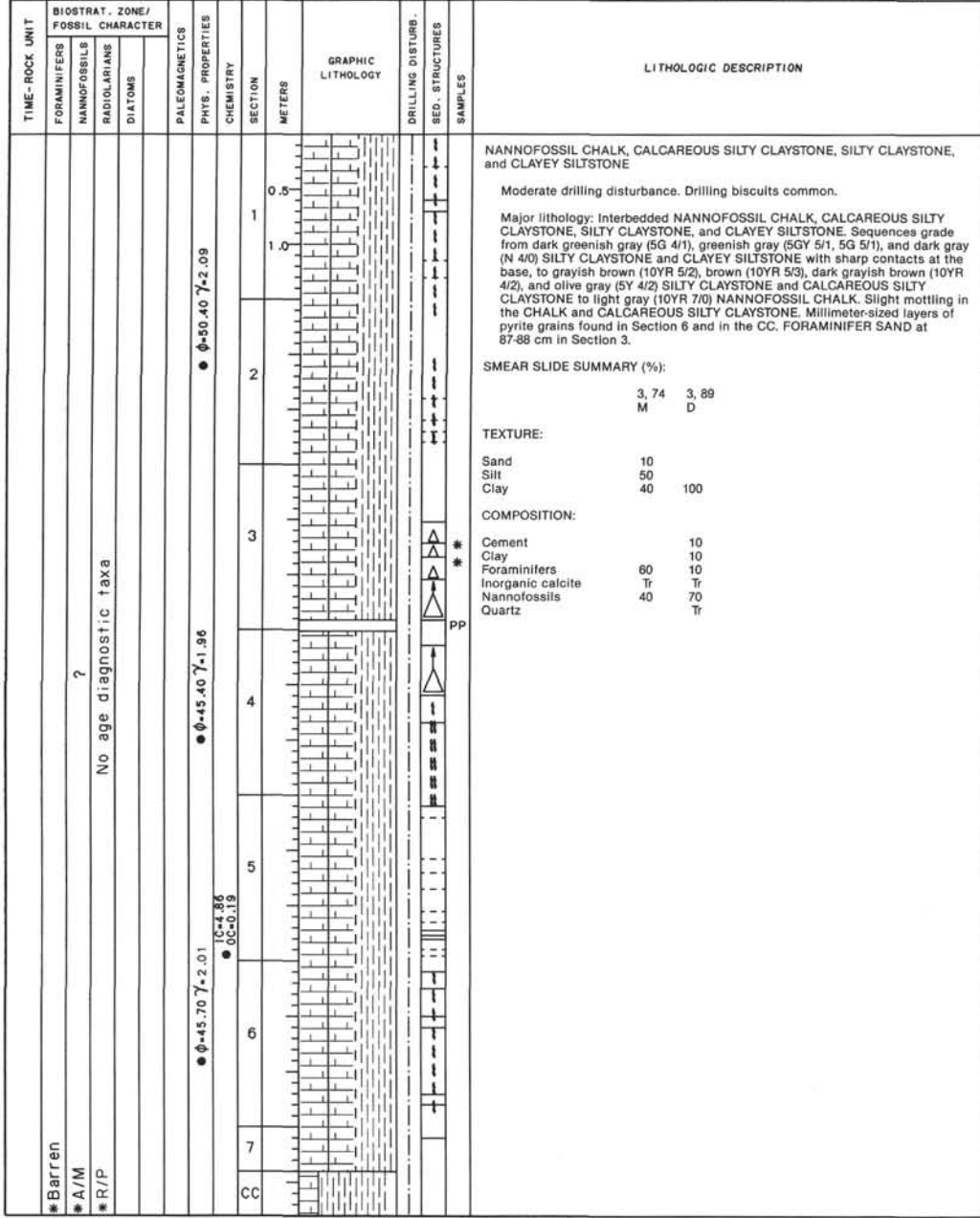


CORE 117-721B-39X NO RECOVERY

SITE 721 HOLE B CORE 40X CORED INTERVAL 2320.7-2330.4 mbsf; 375.9-385.6 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS		PHYS. PROPERTIES		CHEMISTRY		SECTION		METERS		GRAPHIC LITHOLOGY		DRILLING DISTURB.		SED. STRUCTURES		LITHOLOGIC DESCRIPTION																														
		FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																															
MIOCENE		NN3 <i>Sphenolithus belemnos</i> No age diagnostic taxa				● ϕ -38.5 γ -2.11		● ϕ +43.4 γ -2.06		● ϕ +43.2 γ -2.08		● ϕ -0.50 OC-0.98										<p>CALCAREOUS SILTY CLAYSTONE, SILTY CLAYSTONE, and CLAYEY SILTSTONE</p> <p>Moderate drilling disturbance. Drilling biscuits common.</p> <p>Major lithology: Interbedded CALCAREOUS SILTY CLAYSTONE, SILTY CLAYSTONE, and CLAYEY SILTSTONE. Sequences grade from black (10YR 2.5/1), dark bluish gray (5B 4/1), dark gray (N 4/0), and dark brown (10YR 3/3) SILTY CLAYSTONE and some coarser CLAYEY SILTSTONE with sharp contacts at the base to grayish brown (10YR 5/2), dark brown (10YR 4/3), and olive (5Y 4/3) SILTY CLAYSTONE and CALCAREOUS SILTY CLAYSTONE. Slight mottling in the SILTY CLAYSTONE.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>5, 57</td> <td>6, 15</td> </tr> <tr> <td></td> <td>M</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Silt</td> <td>30</td> <td>40</td> </tr> <tr> <td>Clay</td> <td>70</td> <td>60</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. minerals</td> <td>Tr</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>65</td> <td>52</td> </tr> <tr> <td>Dolomite</td> <td>Tr</td> <td>3</td> </tr> <tr> <td>Inorganic calcite</td> <td>15</td> <td>10</td> </tr> <tr> <td>Nannofossils</td> <td>5</td> <td>5</td> </tr> <tr> <td>Quartz</td> <td>15</td> <td>25</td> </tr> </table>		5, 57	6, 15		M	M	Silt	30	40	Clay	70	60	Access. minerals	Tr	5	Clay	65	52	Dolomite	Tr	3	Inorganic calcite	15	10	Nannofossils	5	5	Quartz	15	25
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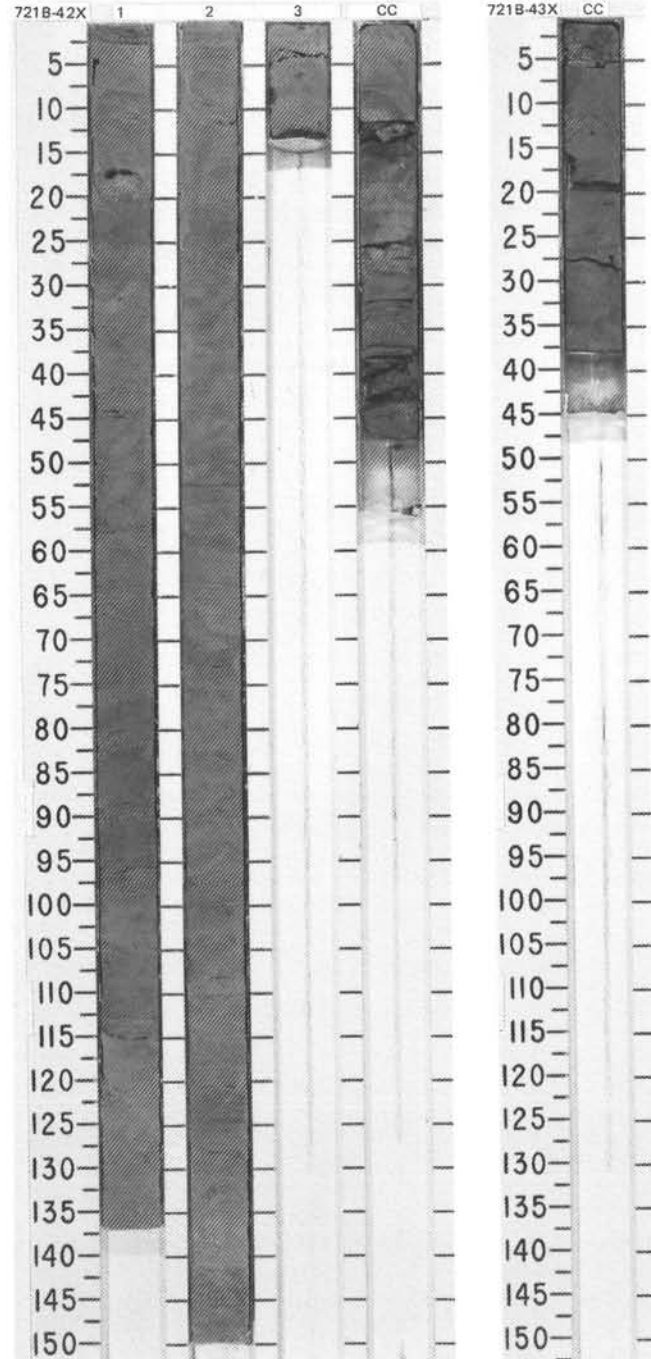


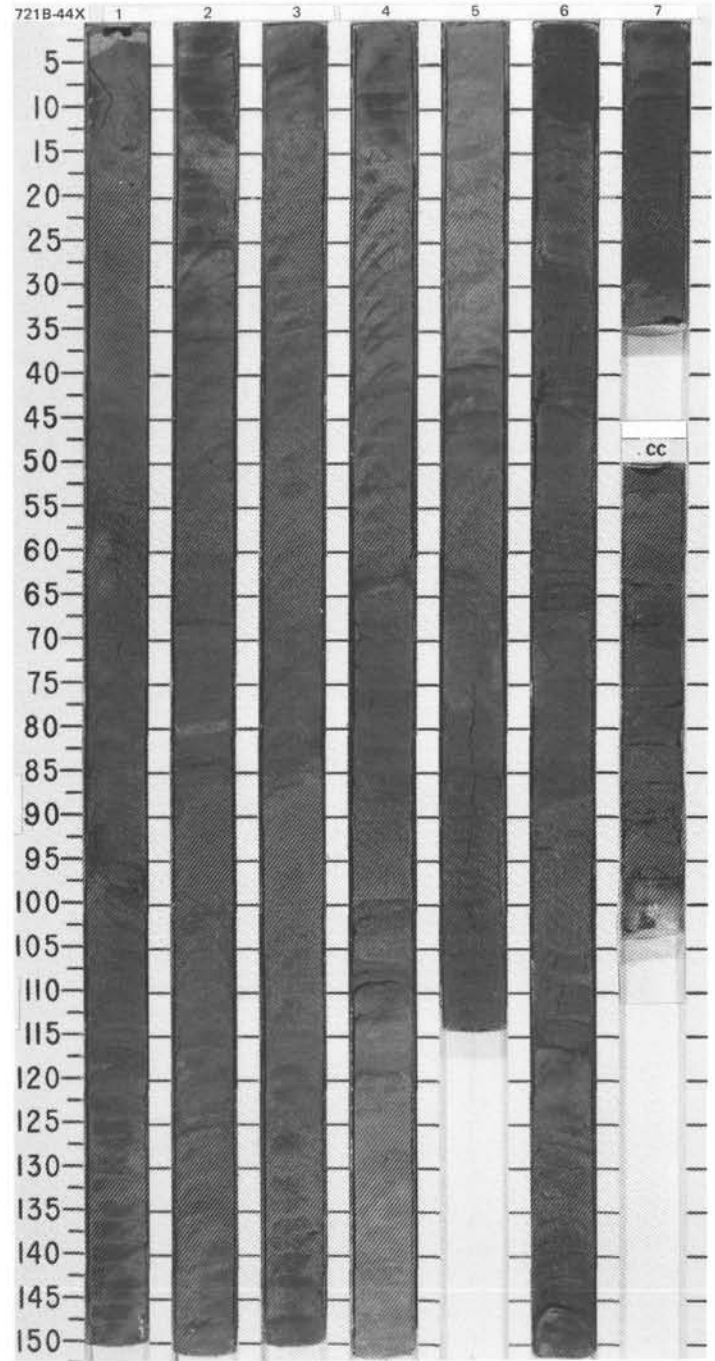
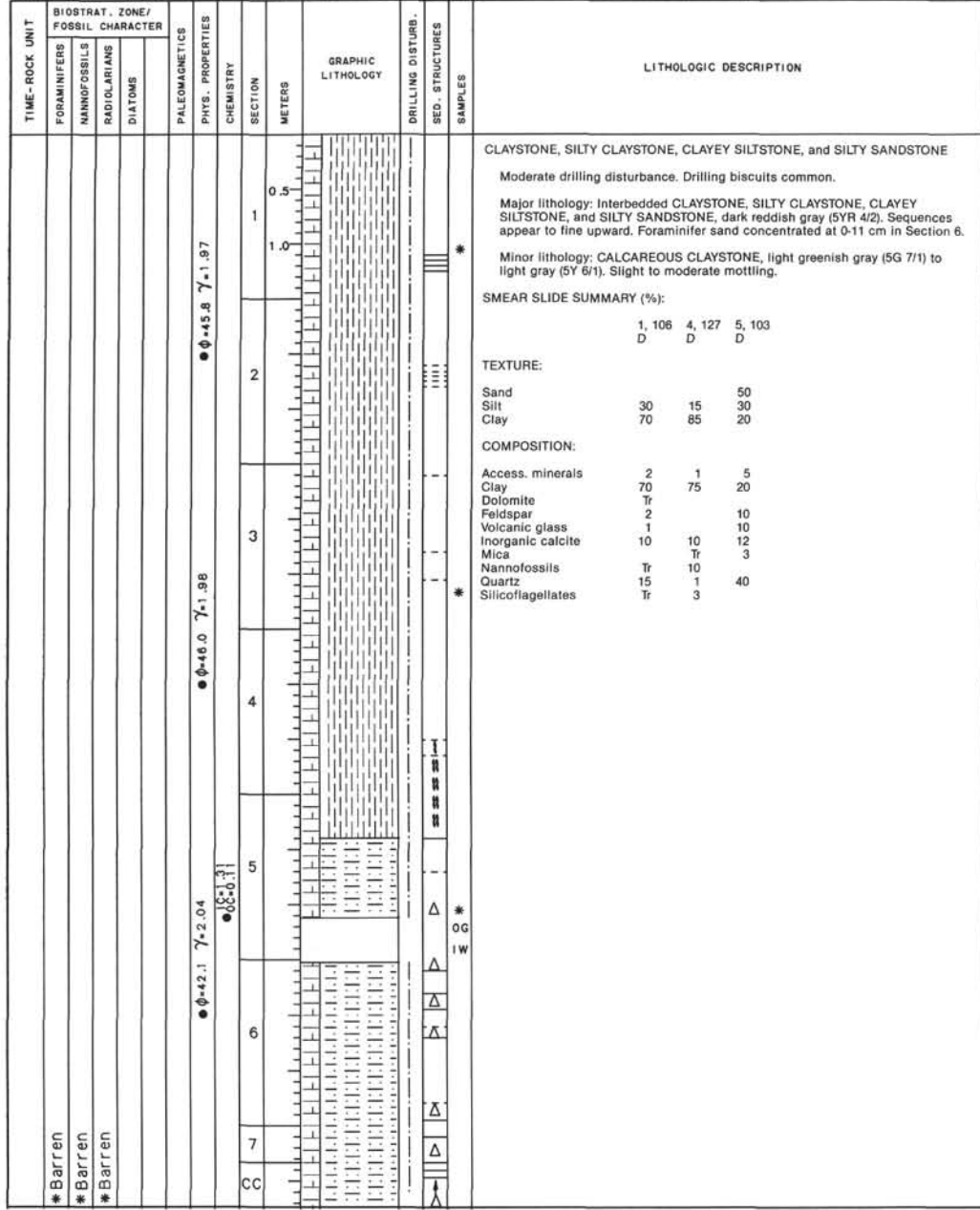
SITE 721 HOLE B CORE 42X CORED INTERVAL 2340.0-2349.7 mbsf; 395.2-404.9 mbsf

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																																														
#Barren	#F/P-M	?	Barren	*					0.5 1.0					<p>SILTY CLAYSTONE and CLAYEY SILTSTONE</p> <p>Moderate drilling disturbance. Drilling biscuits common.</p> <p>Major lithology: SILTY CLAYSTONE and CLAYEY SILTSTONE. Sequences contain 30-200 cm layers of dark greenish gray (5GY 4/1, 5G 4/1) SILTY CLAYSTONE with sharp contacts at the base, thin (<50 cm thick) layers of dark grayish brown (10YR 4/2) SILTY CLAYSTONE and rare marly nannofossil chalk. Millimeter-sized layers of pyrite grains found at the base of some of the clayey siltstone.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2, 77</td> <td>CC, 43</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>50</td> </tr> <tr> <td>Silt</td> <td>10</td> <td>40</td> </tr> <tr> <td>Clay</td> <td>90</td> <td>10</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. minerals</td> <td></td> <td>5</td> </tr> <tr> <td>Clay</td> <td>15</td> <td></td> </tr> <tr> <td>Feldspar</td> <td></td> <td>5</td> </tr> <tr> <td>Inorganic calcite</td> <td>20</td> <td>25</td> </tr> <tr> <td>Mica</td> <td>45</td> <td>20</td> </tr> <tr> <td>Nannofossils</td> <td></td> <td>45</td> </tr> <tr> <td>Quartz</td> <td>20</td> <td></td> </tr> </table>		2, 77	CC, 43	D		M	Sand		50	Silt	10	40	Clay	90	10	Access. minerals		5	Clay	15		Feldspar		5	Inorganic calcite	20	25	Mica	45	20	Nannofossils		45	Quartz	20	
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SITE 721 HOLE B CORE 43X CORED INTERVAL 2349.7-2359.3 mbsf; 404.9-414.5 mbsf

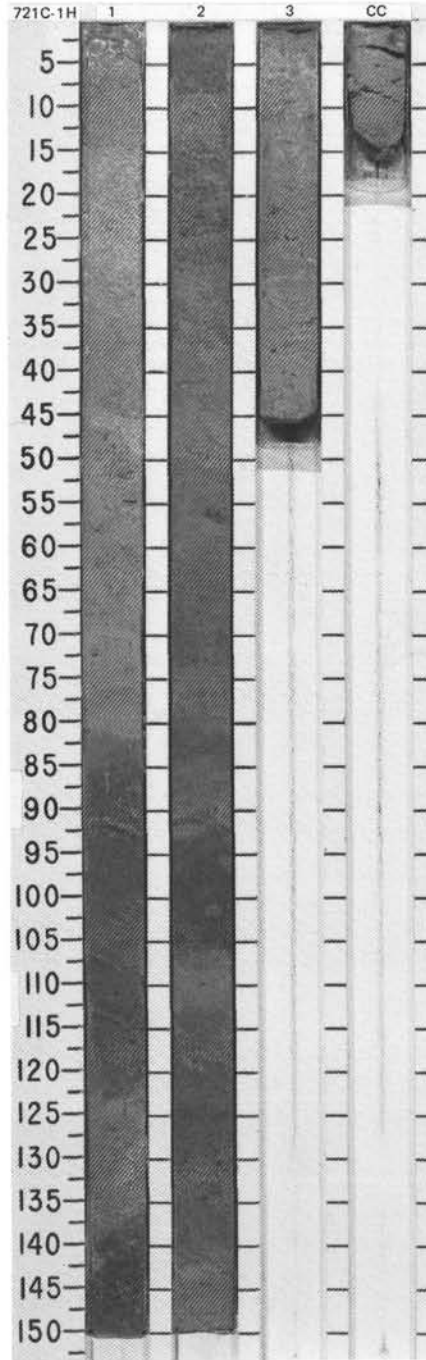
TIME - ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
Barren	C/P	?	Barren	*										<p>CLAYEY SILTSTONE</p> <p>Moderate drilling disturbance.</p> <p>Major lithology: CLAYEY SILTSTONE, dark gray (5Y 4/1). SANDY SILT layer 1 cm thick, located at 19 cm, contains detrital calcite and mica.</p>



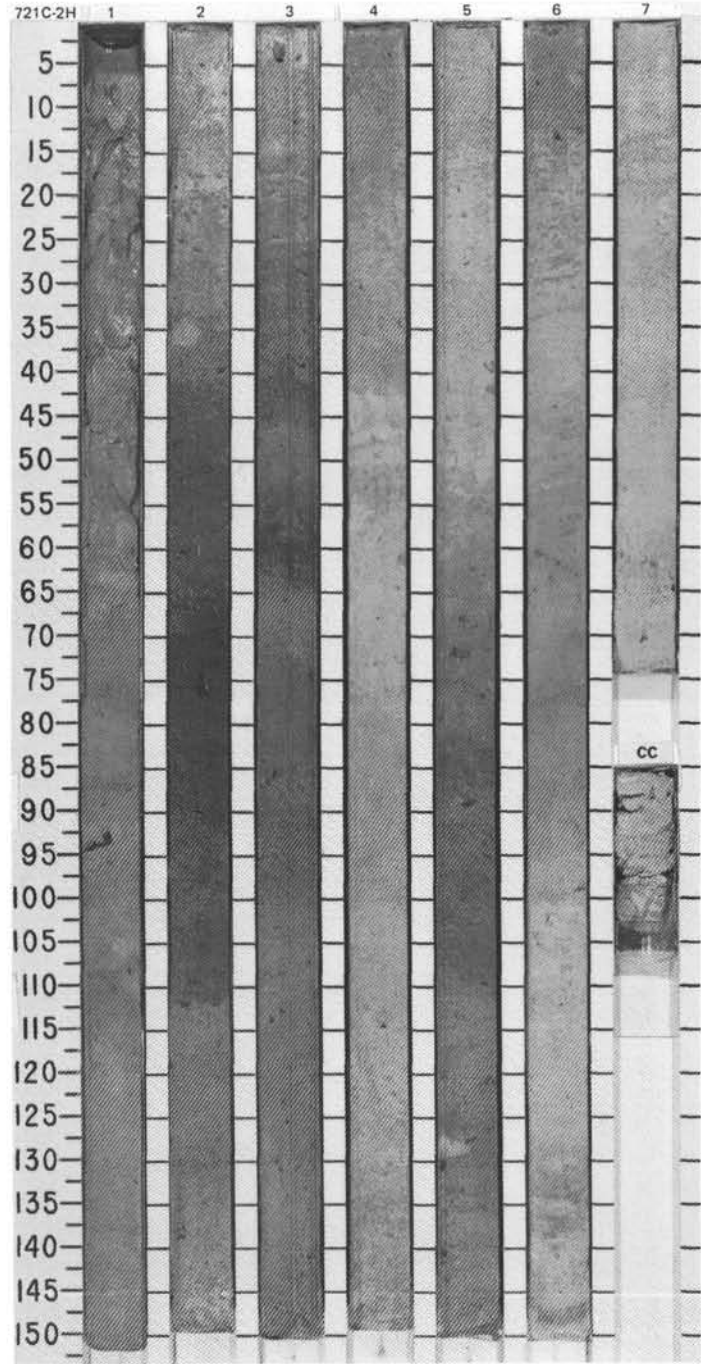


SITE 721 HOLE C CORE 1H CORED INTERVAL 1944.8 -1948.4 mbsl; 0.0-3.6 mbsf

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																																																							
PLEISTOCENE								1	0.5				*	<p>FORAMINIFER-NANNOFOSSIL OOZE to FORAMINIFER-BEARING NANNOFOSSIL OOZE</p> <p>Section 1, 0.5 cm, and the CC are highly disturbed. Remainder of core is undisturbed.</p> <p>Major lithology: FORAMINIFER-NANNOFOSSIL OOZE to FORAMINIFER-BEARING NANNOFOSSIL OOZE. Alternating light and dark bands of light gray (5Y 6/1) to olive (5Y 4/3, 5/3). Slight to moderate burrow-mottling throughout. Dark layers contain more terrigenous clay than do light layers.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 24</td> <td>3, 24</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>35</td> <td>10</td> </tr> <tr> <td>Silt</td> <td>15</td> <td>20</td> </tr> <tr> <td>Clay</td> <td>50</td> <td>70</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. minerals</td> <td></td> <td>1</td> </tr> <tr> <td>Diatoms</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Dolomite</td> <td>Tr</td> <td></td> </tr> <tr> <td>Feldspar</td> <td></td> <td>1</td> </tr> <tr> <td>Foraminifers</td> <td>35</td> <td>15</td> </tr> <tr> <td>Inorganic calcite</td> <td>15</td> <td>11</td> </tr> <tr> <td>Nannofossils</td> <td>50</td> <td>70</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> <td>2</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Sponge spicules</td> <td>Tr</td> <td>Tr</td> </tr> </table>		1, 24	3, 24	D		D	Sand	35	10	Silt	15	20	Clay	50	70	Access. minerals		1	Diatoms	Tr	Tr	Dolomite	Tr		Feldspar		1	Foraminifers	35	15	Inorganic calcite	15	11	Nannofossils	50	70	Quartz	Tr	2	Radiolarians	Tr	Tr	Sponge spicules	Tr	Tr
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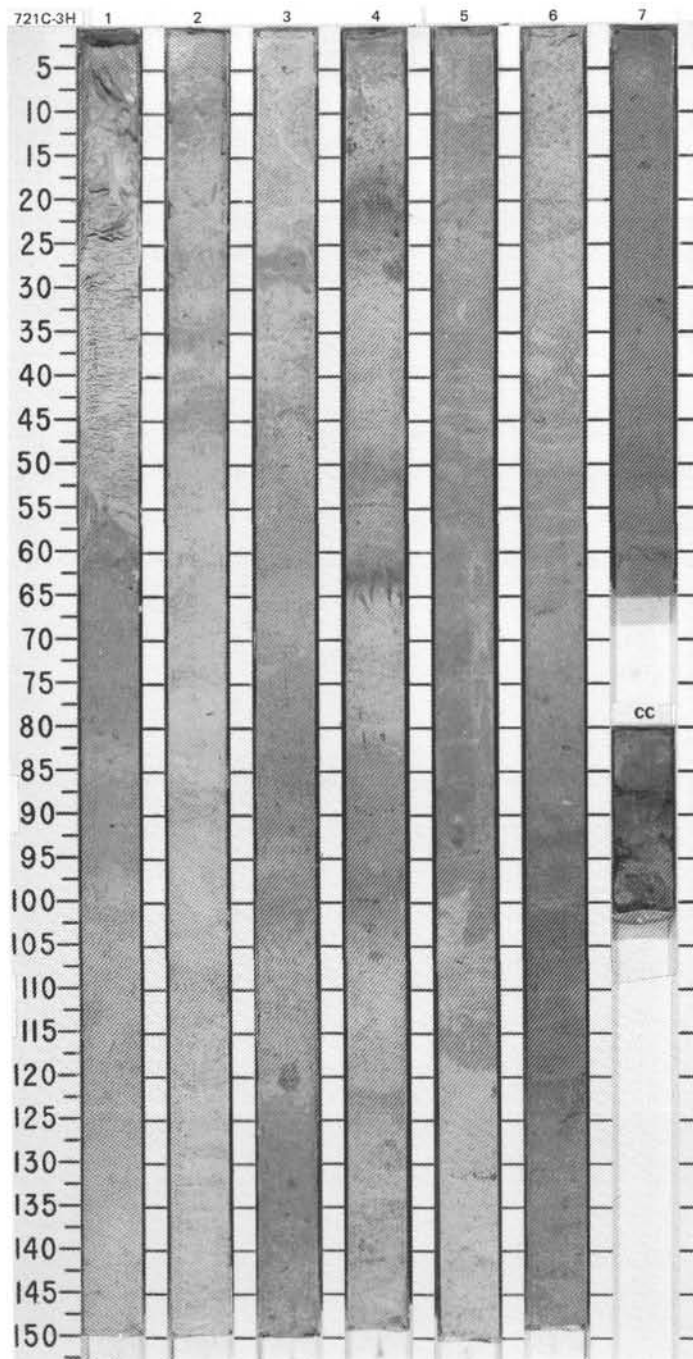


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																										
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS																																																				
PLEISTOCENE	* A/G	NN20	<i>Gephyrocapsa oceanica</i>					0.5					<p>NANNOFOSSIL OOZE</p> <p>Section 1, 0-61 cm, is very disturbed. Remainder of core is undisturbed.</p> <p>Major lithology: NANNOFOSSIL OOZE. Alternating light and dark bands, light gray (SY 7/1, 8/1), light olive gray (SY 8/2), and pale olive (SY 8/3), to olive (SY 4/3, 5/3). Slight to moderate burrow-mottling throughout. Dark layers contain more terrigenous silty clay than do light layers. Black pyrite spots seen throughout, especially as burrow linings.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>2, 86</td> <td>4, 67</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>10</td> <td>10</td> </tr> <tr> <td>Silt</td> <td>20</td> <td>15</td> </tr> <tr> <td>Clay</td> <td>70</td> <td>75</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Access. minerals</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Diatoms</td> <td></td> <td>1</td> </tr> <tr> <td>Foraminifers</td> <td>10</td> <td>7</td> </tr> <tr> <td>Volcanic glass</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Inorganic calcite</td> <td>20</td> <td>17</td> </tr> <tr> <td>Nannofossils</td> <td>70</td> <td>75</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Sponge spicules</td> <td>Tr</td> <td></td> </tr> </table>		2, 86	4, 67	D	D	D	Sand	10	10	Silt	20	15	Clay	70	75	Access. minerals	Tr	Tr	Diatoms		1	Foraminifers	10	7	Volcanic glass	Tr	Tr	Inorganic calcite	20	17	Nannofossils	70	75	Quartz	Tr	Tr	Radiolarians	Tr	Tr	Sponge spicules	Tr	
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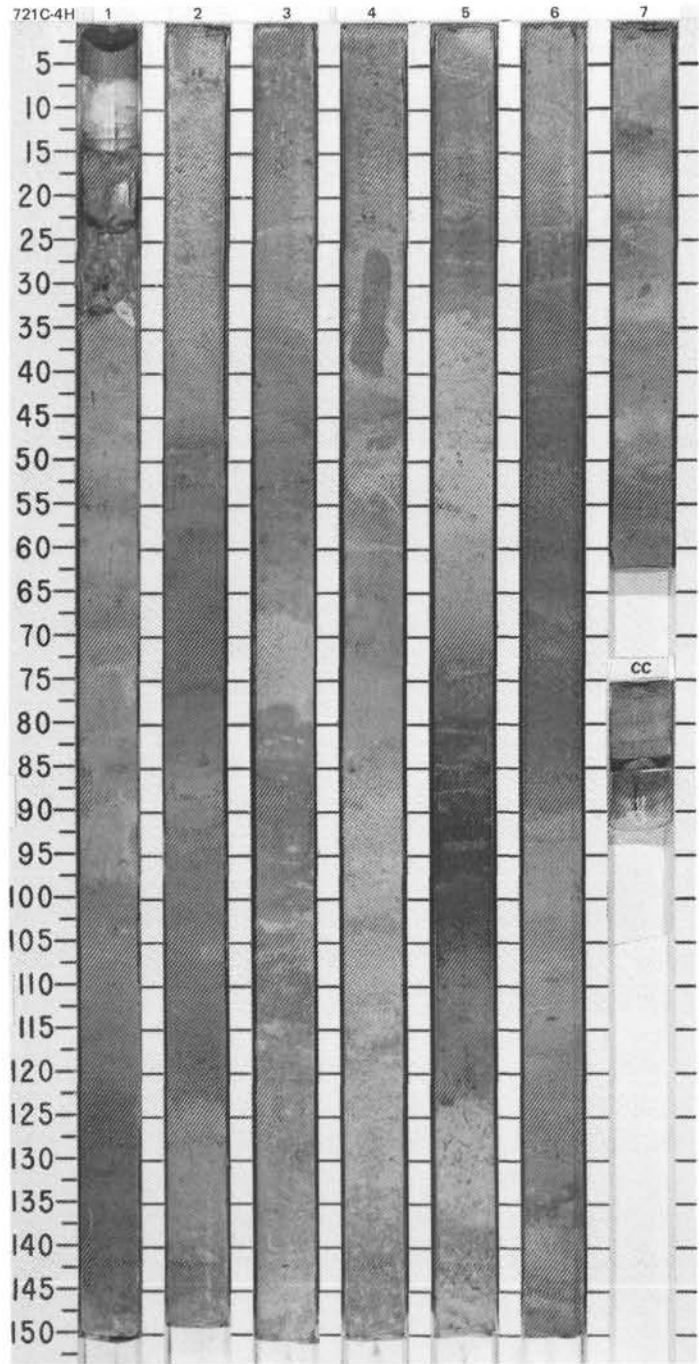


SITE 721 HOLE C CORE 3H CORED INTERVAL 1958.1-1967.8 mbsf; 13.3-23.0 mbsf

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	DIATOMS																																																		
PLEISTOCENE												<p>NANNOFOSSIL OOZE</p> <p>Section 1, 0-15 cm, soupy; 15-57 cm, stretched and moderately disturbed. Remainder of core undisturbed.</p> <p>Major lithology: NANNOFOSSIL OOZE. Alternating light and dark bands of light gray (5Y 7/1) and light olive gray (5Y 6/2) to olive (5Y 5/3, 4/3, 5/4, 4/4). Slight to moderate burrow-mottling throughout. Dark layers contain more terrigenous silty clay than do light layers. Foraminifers visible on core face.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>1, 90</td> <td>3, 4</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>1</td> <td>1</td> </tr> <tr> <td>Silt</td> <td>9</td> <td>9</td> </tr> <tr> <td>Clay</td> <td>90</td> <td>90</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Access. minerals</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Dolomite</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td>1</td> <td>1</td> </tr> <tr> <td>Volcanic glass</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Inorganic calcite</td> <td>9</td> <td>9</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>90</td> <td>90</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Sponge spicules</td> <td>Tr</td> <td>Tr</td> </tr> </table>		1, 90	3, 4	D	D	D	Sand	1	1	Silt	9	9	Clay	90	90	Access. minerals	Tr	Tr	Dolomite	Tr	Tr	Foraminifers	1	1	Volcanic glass	Tr	Tr	Inorganic calcite	9	9	Mica	Tr	Tr	Nannofossils	90	90	Quartz	Tr	Tr	Sponge spicules	Tr	Tr
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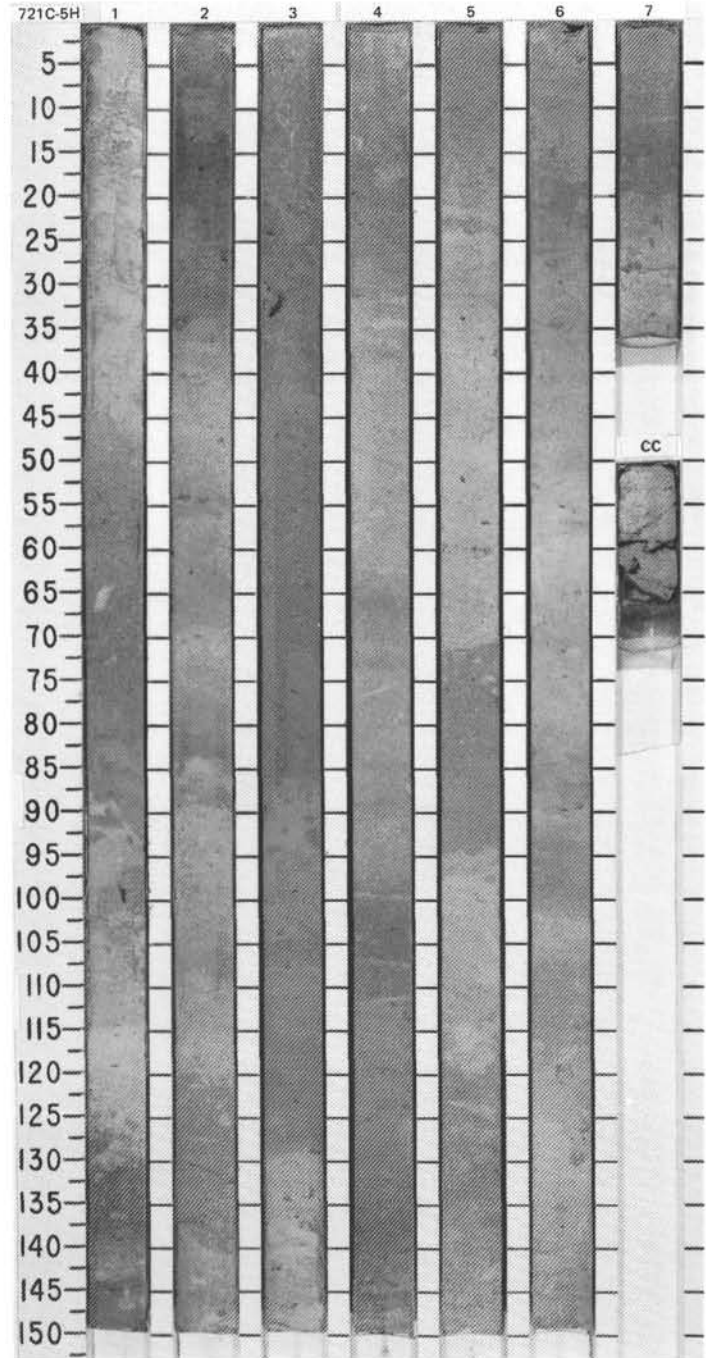


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																			
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS																																																												
PLEISTOCENE	* A/G	NN19	<i>Pseudoemiliania lacunosa</i>						VOID 23.16			<p>NANNOFOSSIL OOZE</p> <p>Void 0-13 cm, in Section 1. Section 1, 13-30 cm, soupy and moderately disturbed. Remainder of core is undisturbed.</p> <p>Major lithology: NANNOFOSSIL OOZE. Alternating light and dark bands of light olive gray (5Y 6/2), light greenish gray (5GY 7/1, 10Y 6/2), light gray (5Y 6/1), pale olive (5Y 6/3), and olive (5Y 5/3, 5/4, 4/3), to olive gray (5Y 5/2, 4/2). Slight to moderate burrow-mottling throughout. Dark layers contain 10-20% more terrigenous silty clay than do light layers. Some burrows lined with black pyrite grains.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>1, 127</td> <td>5, 49</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>20</td> <td></td> </tr> <tr> <td>Silt</td> <td>15</td> <td>15</td> </tr> <tr> <td>Clay</td> <td>65</td> <td>85</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Access. minerals</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Diatoms</td> <td>10</td> <td></td> </tr> <tr> <td>Feldspar</td> <td></td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td>10</td> <td>Tr</td> </tr> <tr> <td>Volcanic glass</td> <td></td> <td></td> </tr> <tr> <td>Inorganic calcite</td> <td>10</td> <td>14</td> </tr> <tr> <td>Mica</td> <td></td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>65</td> <td>85</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> <td>1</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td></td> </tr> <tr> <td>Silicoflagellates</td> <td>1</td> <td></td> </tr> <tr> <td>Sponge spicules</td> <td>3</td> <td>Tr</td> </tr> </table>		1, 127	5, 49	D	D	D	Sand	20		Silt	15	15	Clay	65	85	Access. minerals	1	Tr	Diatoms	10		Feldspar		Tr	Foraminifers	10	Tr	Volcanic glass			Inorganic calcite	10	14	Mica		Tr	Nannofossils	65	85	Quartz	Tr	1	Radiolarians	Tr		Silicoflagellates	1		Sponge spicules	3	Tr
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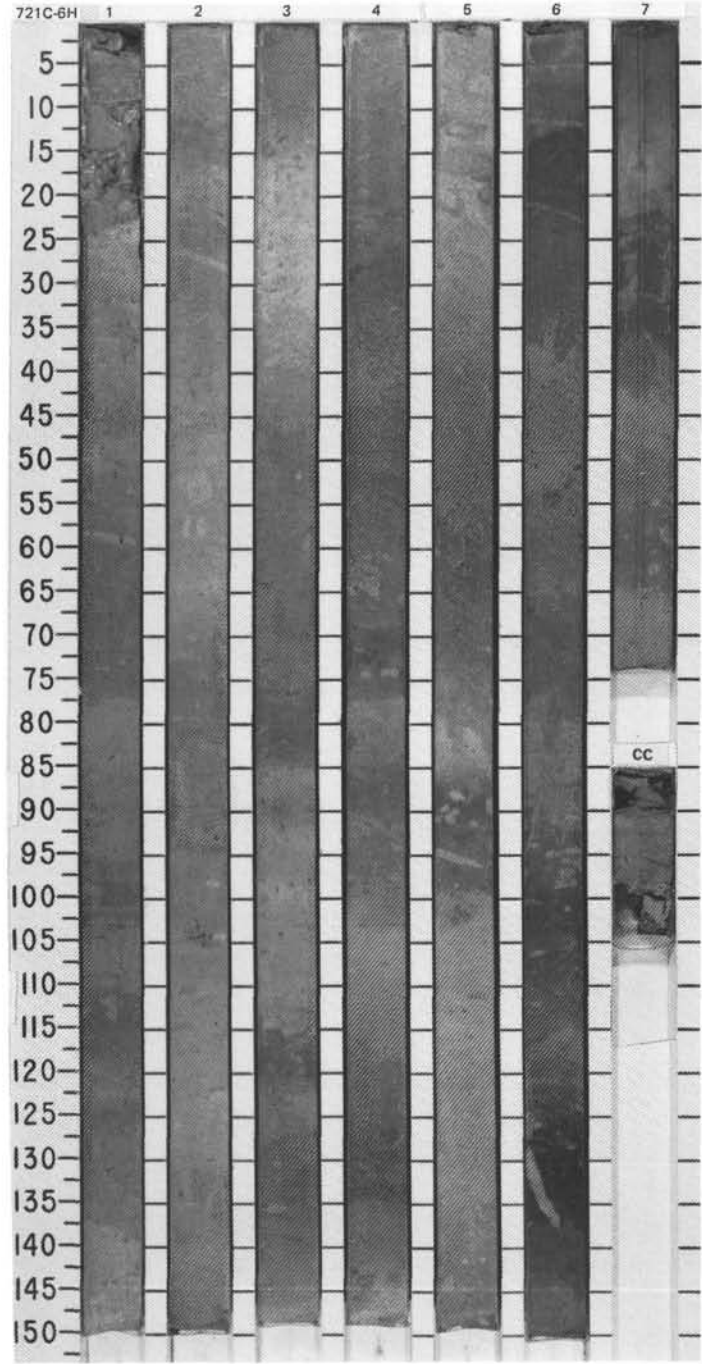


SITE 721 HOLE C CORE 5H CORED INTERVAL 1977.5-1987.2 mbsf; 32.7-42.4 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																													
	FORAMINIFERS	NANNOFOSSILS	RADIOLIARIANS	DIATOMS																																																						
PLEISTOCENE	* A/G	NN19	<i>Pseudoemiliania lacunosa</i>						0.5				<p>NANNOFOSSIL OOZE</p> <p>No drilling disturbance.</p> <p>Major lithology: NANNOFOSSIL OOZE. Alternating light and dark bands, light greenish gray (5GY 7/1, 10Y 6/2), light gray (5Y 7/2), and light olive gray (5Y 6/2) to olive gray (5Y 5/2), pale olive (5Y 6/3), and olive (5Y 4/3, 5/3). Slight to moderate burrow-mottling throughout. Dark layers enriched in terrigenous components relative to light layers. Foraminifers visible on core face.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table> <tr> <td></td> <td>2, 16</td> <td>5, 32</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table> <tr> <td>Sand</td> <td>1</td> <td></td> </tr> <tr> <td>Silt</td> <td>14</td> <td>15</td> </tr> <tr> <td>Clay</td> <td>85</td> <td>85</td> </tr> </table> <p>COMPOSITION:</p> <table> <tr> <td>Access. minerals</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Diatoms</td> <td>Tr</td> <td></td> </tr> <tr> <td>Dolomite</td> <td>Tr</td> <td></td> </tr> <tr> <td>Foraminifers</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Volcanic glass</td> <td></td> <td>Tr</td> </tr> <tr> <td>Inorganic calcite</td> <td>13</td> <td>15</td> </tr> <tr> <td>Mica</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>85</td> <td>85</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td></td> </tr> <tr> <td>Sponge spicules</td> <td></td> <td>Tr</td> </tr> </table>		2, 16	5, 32	D	D	D	Sand	1		Silt	14	15	Clay	85	85	Access. minerals	Tr	Tr	Diatoms	Tr		Dolomite	Tr		Foraminifers	1	Tr	Volcanic glass		Tr	Inorganic calcite	13	15	Mica	1	Tr	Nannofossils	85	85	Radiolarians	Tr		Sponge spicules		Tr
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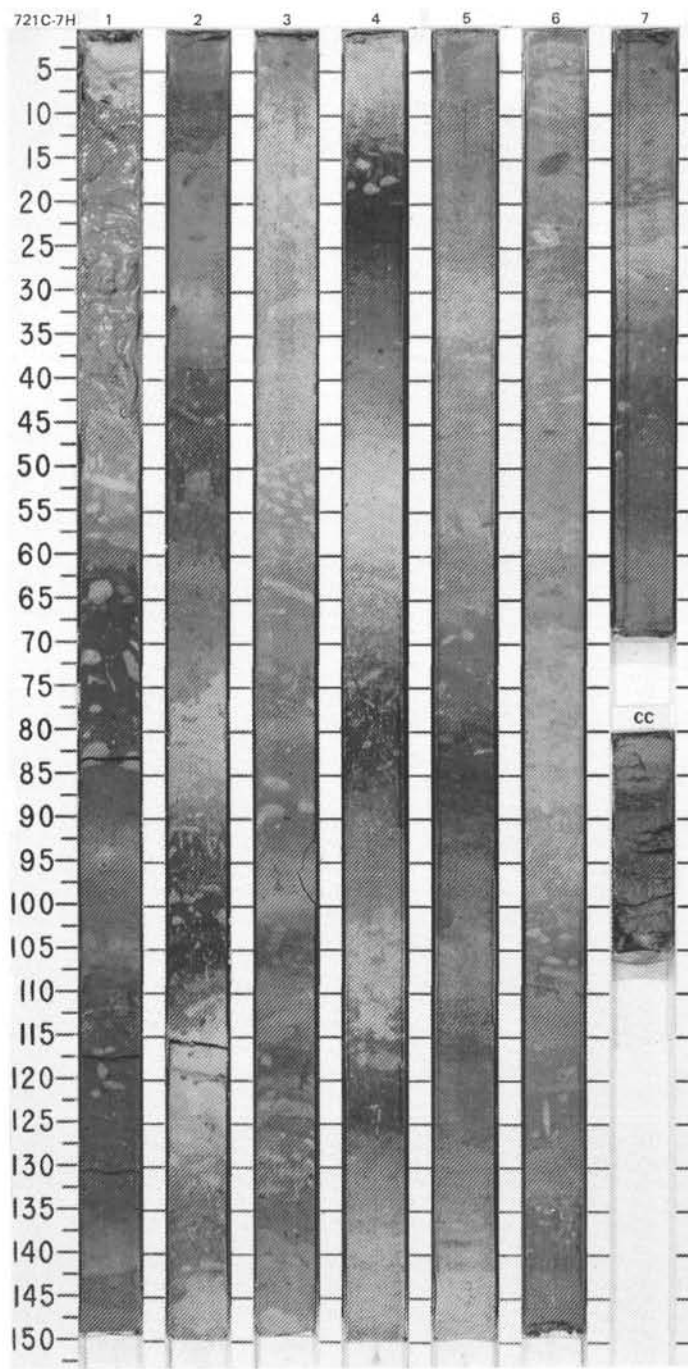


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																			
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS																																																											
PLEISTOCENE	NN19 <i>Pseudoemiliania lacunosa</i>						0.5 1.0				<p>NANNOFOSSIL OOZE</p> <p>Section 1, 0-20 cm, highly disturbed. Remainder of core undisturbed.</p> <p>Major lithology: NANNOFOSSIL OOZE. Alternating light and dark bands, light gray (5Y 6/1) and olive gray (5Y 6/2) to olive gray (5Y 5/2) and olive (5Y 4/3, 4/4, 5/4, 5/3). Slight to moderate burrow-mottling throughout. Dark layers contain 10-20% more terrigenous silty clay than do light layers. Foraminifers visible on core face.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>4, 40</td> <td>5, 115</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>5</td> <td></td> </tr> <tr> <td>Silt</td> <td>15</td> <td>15</td> </tr> <tr> <td>Clay</td> <td>80</td> <td>85</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. minerals</td> <td></td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>5</td> <td>10</td> </tr> <tr> <td>Diatoms</td> <td>Tr</td> <td></td> </tr> <tr> <td>Dolomite</td> <td></td> <td>Tr</td> </tr> <tr> <td>Feldspar</td> <td>Tr</td> <td></td> </tr> <tr> <td>Foraminifers</td> <td>5</td> <td>5</td> </tr> <tr> <td>Inorganic calcite</td> <td>Tr</td> <td>10</td> </tr> <tr> <td>Nannofossils</td> <td>80</td> <td>74</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>1</td> </tr> <tr> <td>Radiolarians</td> <td>5</td> <td>Tr</td> </tr> <tr> <td>Silicoflagellates</td> <td>Tr</td> <td></td> </tr> <tr> <td>Sponge spicules</td> <td></td> <td>Tr</td> </tr> </table>		4, 40	5, 115	D	D	D	Sand	5		Silt	15	15	Clay	80	85	Access. minerals		Tr	Clay	5	10	Diatoms	Tr		Dolomite		Tr	Feldspar	Tr		Foraminifers	5	5	Inorganic calcite	Tr	10	Nannofossils	80	74	Quartz	5	1	Radiolarians	5	Tr	Silicoflagellates	Tr		Sponge spicules		Tr
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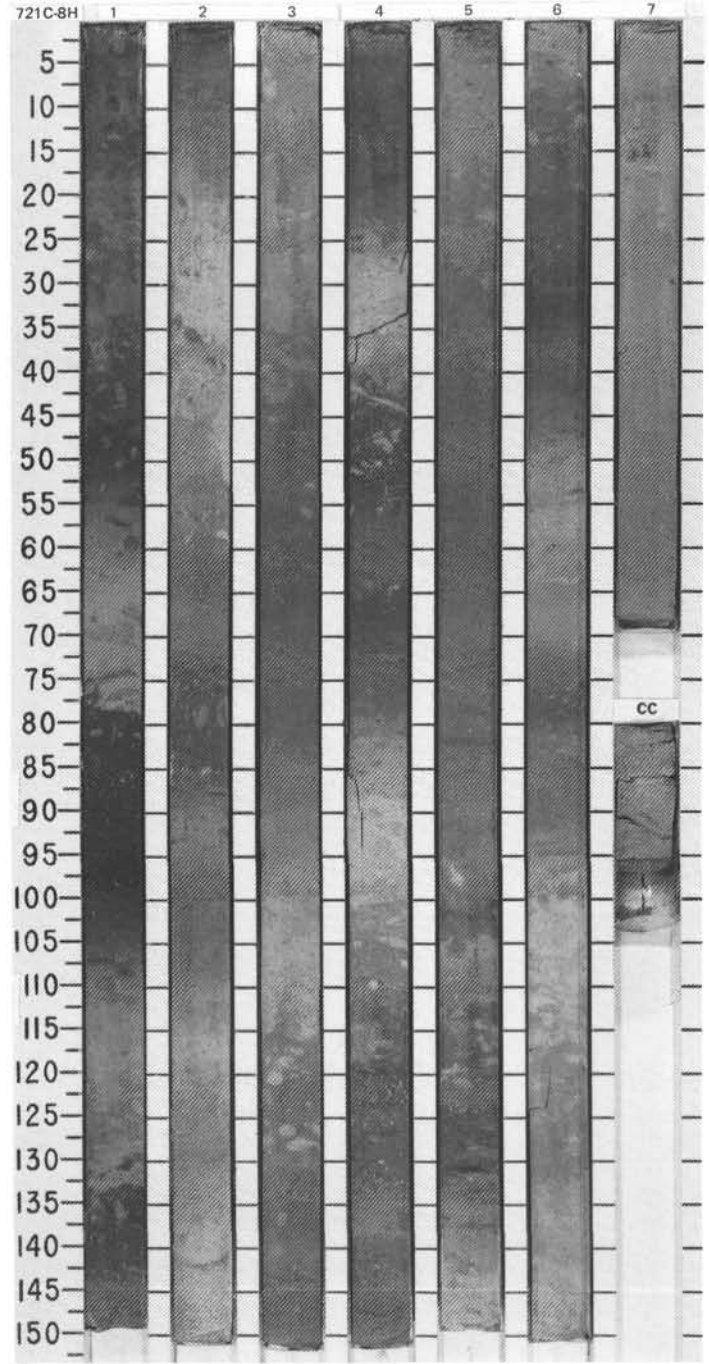


SITE 721 HOLE C CORE 7H CORED INTERVAL 1996.8-2006.1 mbsl; 52.0-61.3 mbsl;

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												<p>FORAMINIFER-NANNOFOSSIL OOZE to NANNOFOSSIL OOZE</p> <p>Section 1, 10-45 cm, soupy. Remainder of core is undisturbed.</p> <p>Major lithology: FORAMINIFER-NANNOFOSSIL OOZE to NANNOFOSSIL OOZE. Alternating light and dark bands, light greenish gray (10Y 6/2) and light gray (5Y 7/1) to olive gray (5Y 5/2, 4/2) and olive (5Y 4/3, 5/3, 5/4). Slight to moderate burrow-mottling throughout. Dark layers enriched in terrigenous silty clay relative to light layers.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>3, 90</td> <td>6, 77</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>10</td> <td>15</td> </tr> <tr> <td>Silt</td> <td>20</td> <td>30</td> </tr> <tr> <td>Clay</td> <td>70</td> <td>55</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Access. minerals</td> <td></td> <td>2</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>15</td> </tr> <tr> <td>Feldspar</td> <td>Tr</td> <td></td> </tr> <tr> <td>Foraminifers</td> <td>10</td> <td>15</td> </tr> <tr> <td>Gypsum</td> <td></td> <td>Tr</td> </tr> <tr> <td>Inorganic calcite</td> <td>Tr</td> <td>3</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td></td> </tr> <tr> <td>Nannofossils</td> <td>70</td> <td>65</td> </tr> <tr> <td>Quartz</td> <td>10</td> <td></td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td></td> </tr> <tr> <td>Silicoflagellates</td> <td>Tr</td> <td></td> </tr> </table>		3, 90	6, 77	D	D	D	Sand	10	15	Silt	20	30	Clay	70	55	Access. minerals		2	Clay	10	15	Feldspar	Tr		Foraminifers	10	15	Gypsum		Tr	Inorganic calcite	Tr	3	Mica	Tr		Nannofossils	70	65	Quartz	10		Radiolarians	Tr		Silicoflagellates	Tr	
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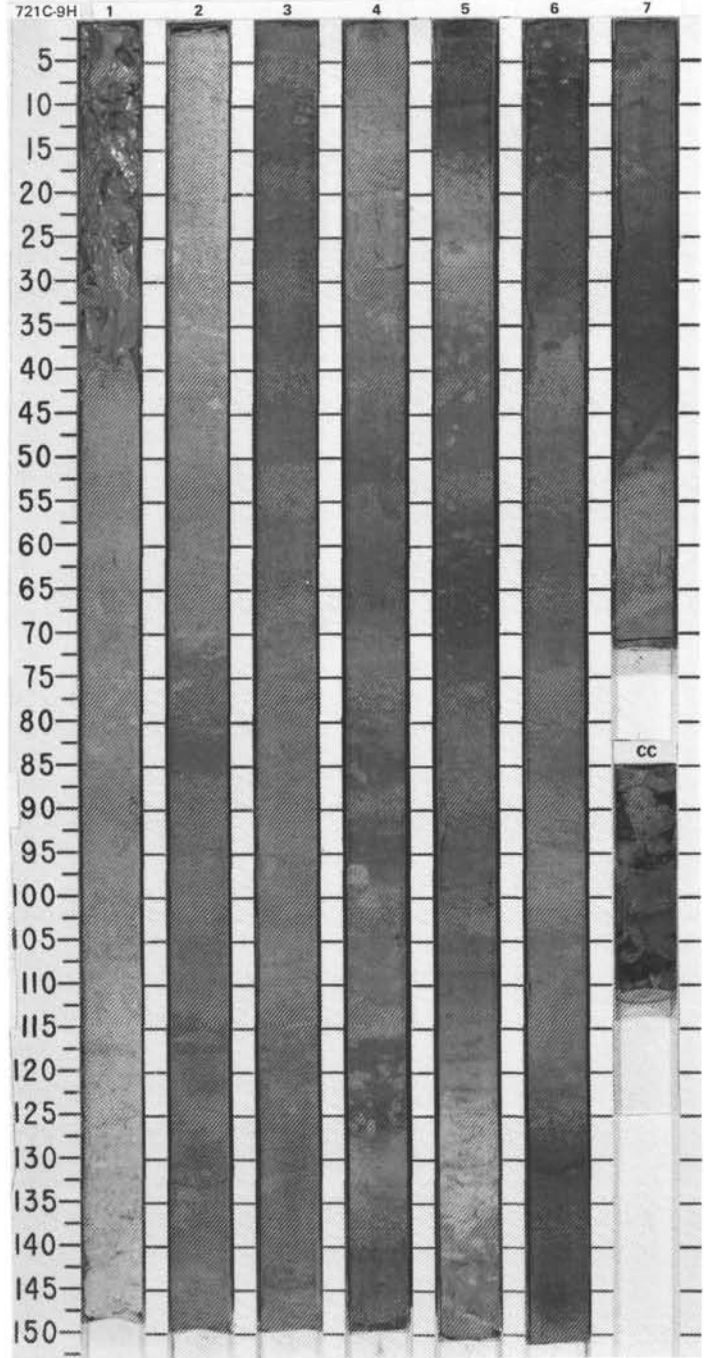


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION				
	FORAMINIFERS	NANNOFOSSILS	RADIOLIARIANS	DIAZONS													
PLIOCENE	NN18 <i>Discoaster brouweri</i>								0.5				<p>NANNOFOSSIL OOZE</p> <p>No drilling disturbance.</p> <p>Major lithology: NANNOFOSSIL OOZE. Alternating light and dark bands, light olive gray (5Y 6/2) and pale olive (5Y 6/3) to olive gray (5Y 5/2, 4/2) and olive (5Y 4/3, 5/3, 4/4). Slight to moderate burrow-mottling throughout. Dark layers enriched in terrigenous silty clay relative to light layers.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="padding-left: 40px;">6, 60 D</p> <p>TEXTURE:</p> <p>Sand 5 Silt 30 Clay 65</p> <p>COMPOSITION:</p> <p>Access. minerals Tr Clay 20 Foraminifers 15 Gypsum Tr Inorganic calcite 5 Nannofossils 60 Radiolarians Tr</p>				
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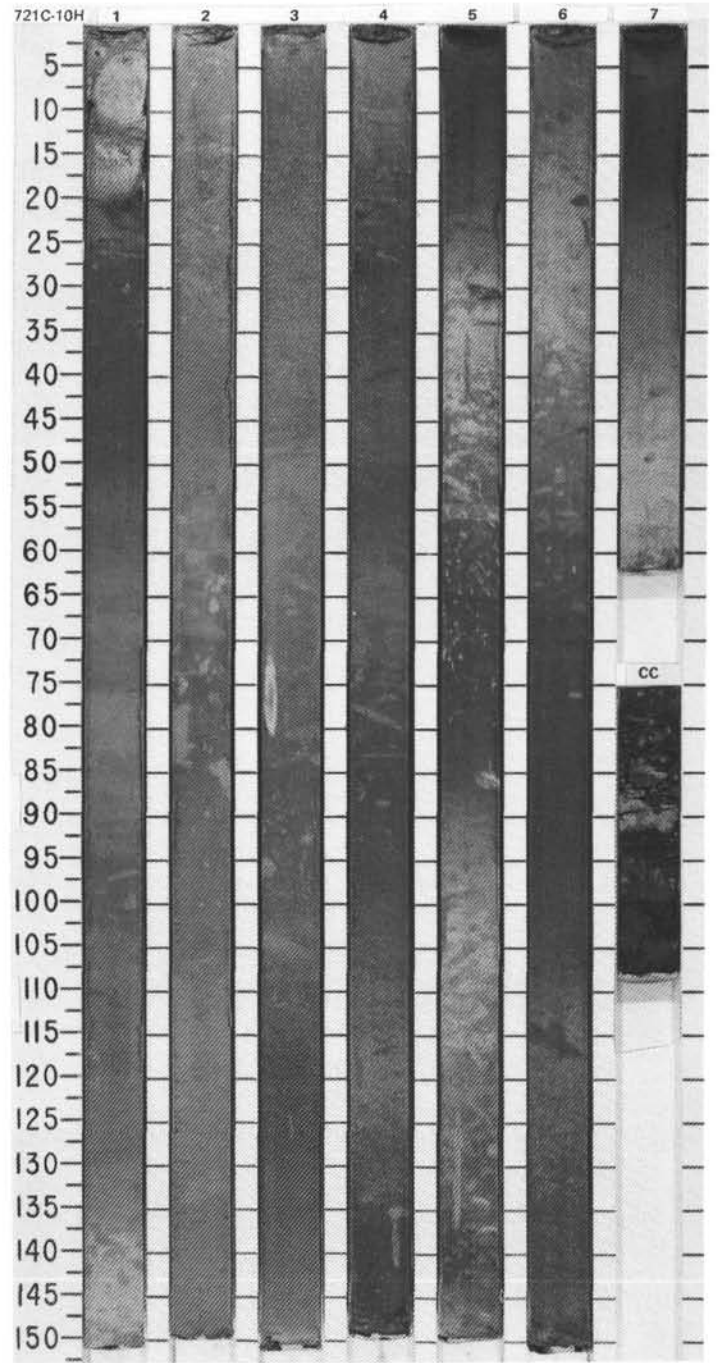


SITE 721 HOLE C CORE 9H CORED INTERVAL 2015.6-2025.1 mbsl; 70.8-80.3 mbsf

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														
PLIOCENE	* A/G NN16 <i>Discoaster surculus</i> - NN17 <i>Discoaster pentaradiatus</i>								0.5		O			<p>NANNOFOSSIL OOZE</p> <p>Section 1, 0-38 cm, soupy. Remainder of core is undisturbed.</p> <p>Major lithology: NANNOFOSSIL OOZE. Alternating light and dark bands, light gray (SY 7/1), pale yellow (SY 7/3), and light olive gray (SY 6/2) to olive (SY 4/3, 5/3, 4/4) and olive gray (SY 4/2). Slight to moderate burrow-mottling throughout. Dark layers enriched in terrigenous clay relative to light layers.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 20px;">3, 60 D</p> <p>TEXTURE:</p> <p>Silt 20 Clay 80</p> <p>COMPOSITION:</p> <p>Clay 10 Diatoms 5 Foraminifers Tr Inorganic calcite Tr Nannofossils 85 Quartz Tr</p>				
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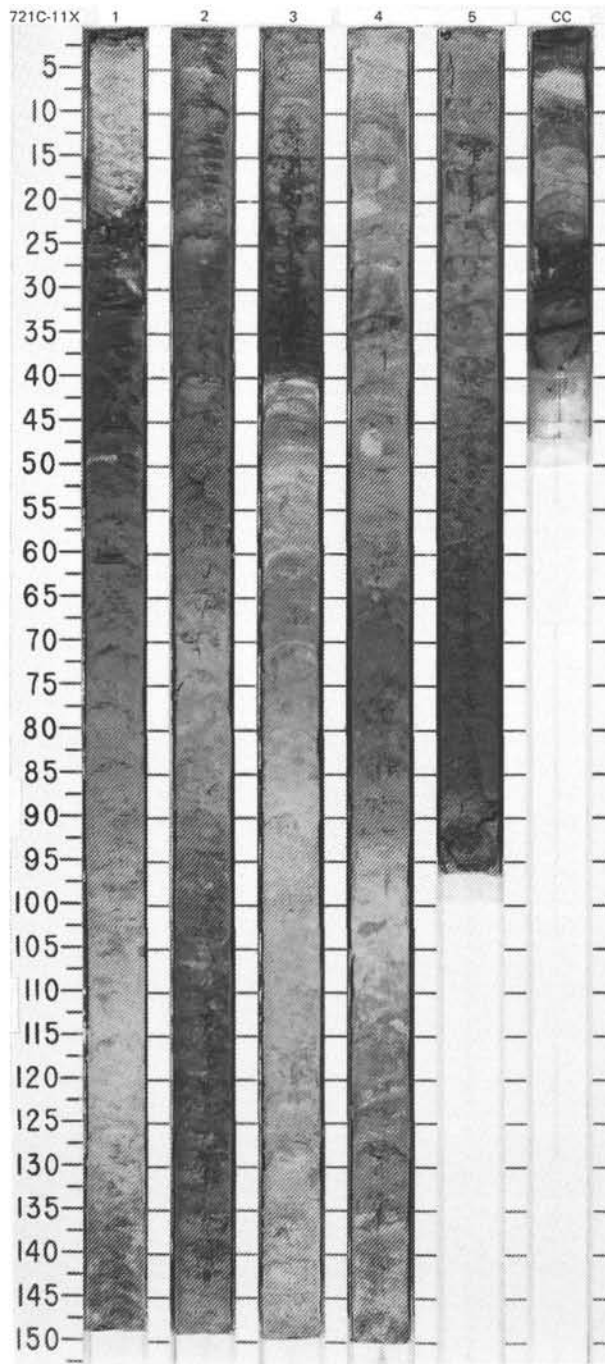


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION														
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										DIAATOMS													
PLIOCENE	* A/M	NN16 <i>Discoaster surculus</i> - NN17 <i>Discoaster pentaradiatus</i>						0.5				<p>NANNOFOSSIL OOZE</p> <p>Section 1, 0-20 cm, moderately disturbed. Remainder of core is undisturbed.</p> <p>Major lithology: NANNOFOSSIL OOZE. Alternating light and dark bands, pale olive (5Y 6/3) to olive (5Y 4/3, 5/3, 5/4) and olive gray (5Y 4/2). Slight to moderate burrow-mottling throughout. Dark layers enriched in terrigenous clay relative to light layers.</p> <p>Minor lithology: Marly nannofossil ooze, dark olive gray (5Y 3/2), in Section 4, 148-150 cm; Section 5, 0-25 cm; Section 7, 10-35 cm; and CC.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr><td>4, 100</td></tr> <tr><td>D</td></tr> </table> <p>TEXTURE:</p> <table border="0"> <tr><td>Silt</td><td>50</td></tr> <tr><td>Clay</td><td>50</td></tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr><td>Clay</td><td>30</td></tr> <tr><td>Inorganic calcite</td><td>20</td></tr> <tr><td>Nannofossils</td><td>40</td></tr> <tr><td>Quartz</td><td>10</td></tr> </table>	4, 100	D	Silt	50	Clay	50	Clay	30	Inorganic calcite	20	Nannofossils	40	Quartz	10
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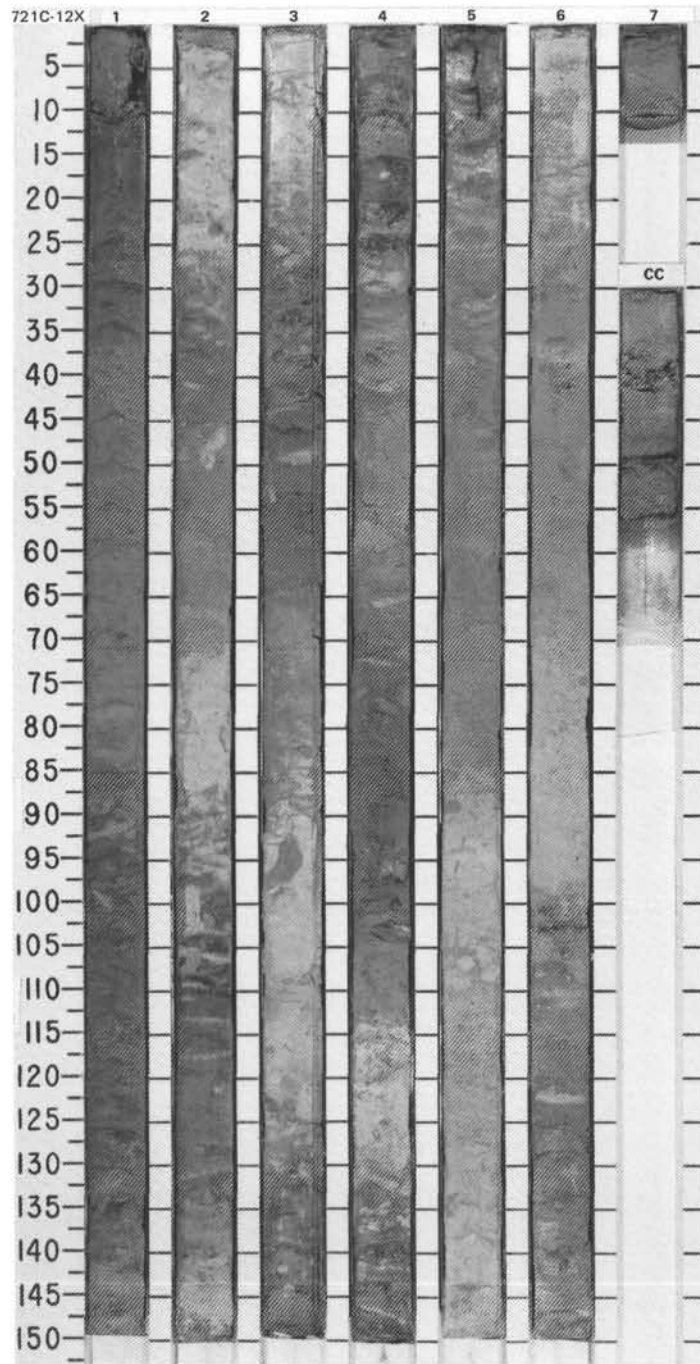


SITE 721 HOLE C CORE 11X CORED INTERVAL 2034.7-2044.3 mbsl; 89.9-99.5 mbsf

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											
PLIOCENE	#A/M	NN16 <i>Discoaster surculus</i> - NN17 <i>Discoaster pentaradiatus</i>						1	0.5					<p>NANNOFOSSIL OOZE</p> <p>Section 1, 0-23 cm, moderately disturbed. Remainder of core is undisturbed.</p> <p>Major lithology: NANNOFOSSIL OOZE. Alternating light and dark bands, light olive gray (5Y 6/2) and pale olive (5Y 6/3) to olive (5Y 4/3, 5/3, 5/4, 4/4). Slight to moderate burrow-mottling throughout. Dark layers enriched in terrigenous silty clay relative to light layers.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">3, 100 D</p> <p>TEXTURE:</p> <p>Silt 20 Clay 80</p> <p>COMPOSITION:</p> <p>Clay 10 Diatoms 5 Inorganic calcite 5 Mica Tr Nannofossils 80 Quartz Tr</p>
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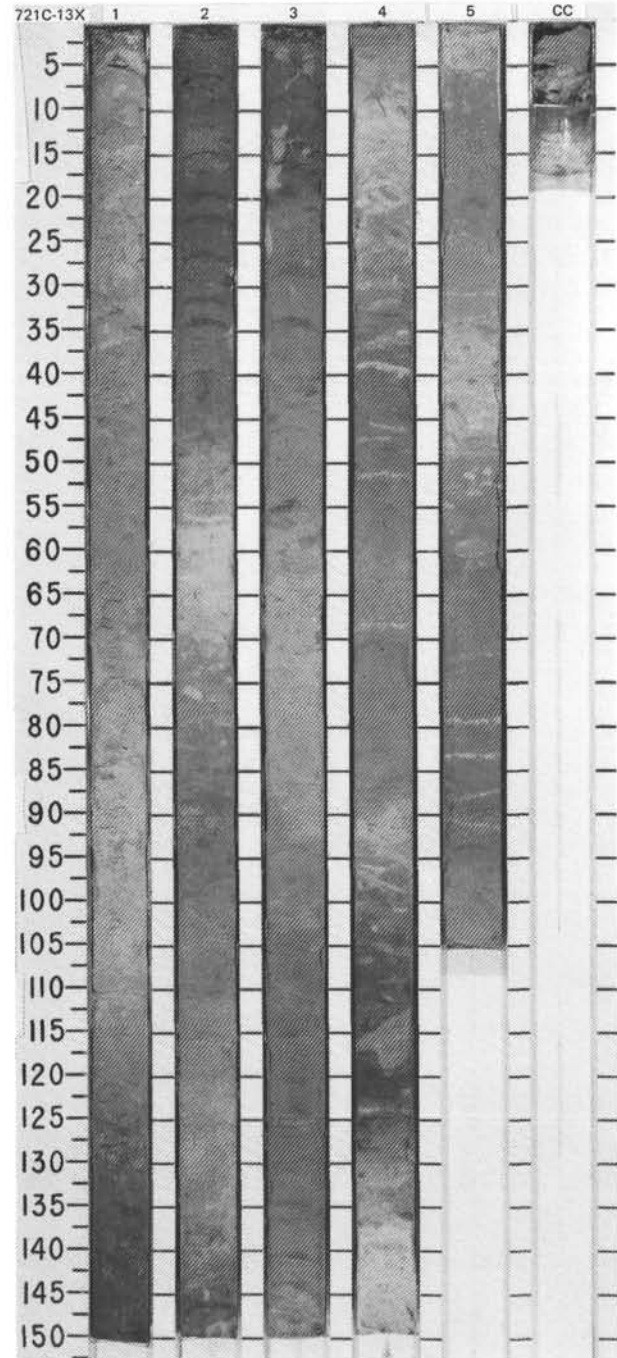


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS DIATOMS																												
PLIOCENE							0.5				<p>NANNOFOSSIL OOZE</p> <p>Section 1, 0-10 cm, very disturbed. Remainder of core is undisturbed.</p> <p>Major lithology: NANNOFOSSIL OOZE. Alternating light and dark bands, light olive gray (5Y 6/2) and pale olive (5Y 6/3) to olive (5Y 4/3, 5/3, 4/4). Slight to moderate burrow-mottling throughout. Dark layers enriched in terrigenous silty clay relative to light layers.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table style="margin-left: 20px;"> <tr><td>1, 60</td></tr> <tr><td>D</td></tr> </table> <p>TEXTURE:</p> <table style="margin-left: 20px;"> <tr><td>Sand</td><td>5</td></tr> <tr><td>Silt</td><td>15</td></tr> <tr><td>Clay</td><td>80</td></tr> </table> <p>COMPOSITION:</p> <table style="margin-left: 20px;"> <tr><td>Clay</td><td>10</td></tr> <tr><td>Foraminifers</td><td>5</td></tr> <tr><td>Inorganic calcite</td><td>Tr</td></tr> <tr><td>Mica</td><td>Tr</td></tr> <tr><td>Nannofossils</td><td>85</td></tr> <tr><td>Quartz</td><td>Tr</td></tr> </table>	1, 60	D	Sand	5	Silt	15	Clay	80	Clay	10	Foraminifers	5	Inorganic calcite	Tr	Mica	Tr	Nannofossils	85	Quartz	Tr
	1, 60																														
	D																														
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	Silt	15																													
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	Clay	10																													
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	*A/M	NN15	<i>Reticulofenestra pseudoumbilica</i>																												

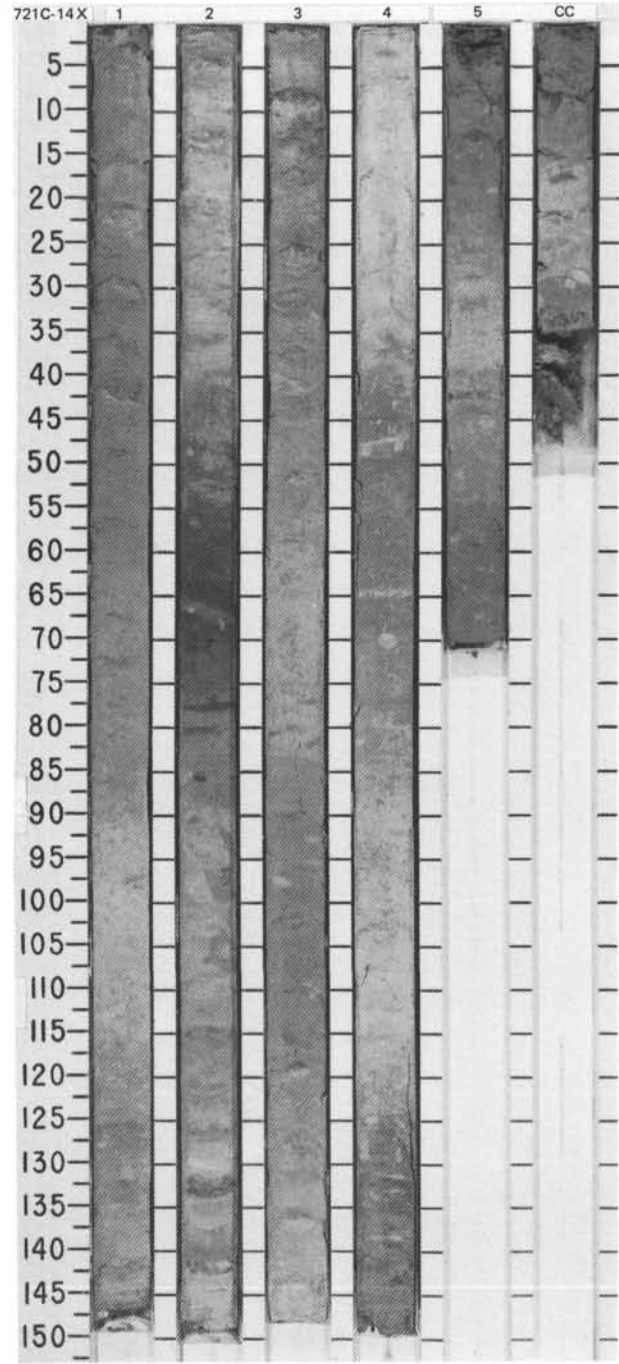


SITE 721 HOLE C CORE 13X CORED INTERVAL 2053.9-2063 mbsl; 109.1-118.7 mbsf

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									
PLIOCENE	#A/G-M	NN15	<i>Reticulofenestra pseudoumbilica</i>				0.5				<p>NANNOFOSSIL OOZE</p> <p>Section 1, 0-5 cm, and Section 2, 0-50 cm, moderately disturbed. Remainder of core is undisturbed.</p> <p>Major lithology: NANNOFOSSIL OOZE. Alternating light and dark bands, light gray (5Y 6/1) and light olive gray (5Y 6/2) to olive (5Y 4/3, 5/3) and olive gray (5Y 5/2). Slight to moderate burrow-mottling throughout. Dark layers enriched in terrigenous silty clay relative to light layers.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="padding-left: 40px;">4, 70 D</p> <p>TEXTURE:</p> <p>Silt 20 Clay 80</p> <p>COMPOSITION:</p> <p>Clay 10 Foraminifers Tr Inorganic calcite 5 Mica Tr Nannofossils 85 Quartz Tr</p>	
				1								
				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	RADIOLARIANS	DIATOMS										
PLIOCENE	*A/G-M NN14 <i>Discoaster asymmetricus</i> - NN15 <i>Reticulofenestra pseudumbilica</i>							1	0.5 1.0					<p>NANNOFOSSIL OOZE</p> <p>Voids in Section 1, 146-150 cm, and Section 2, 149-150 cm. Most of core slightly to moderately disturbed.</p> <p>Major lithology: NANNOFOSSIL OOZE. Alternating light and dark bands, light gray (5Y 7/1), light olive gray (5Y 6/2), and pale olive (5Y 6/3) to olive (5Y 4/3, 5/3) and olive gray (5Y 5/2). Slight to moderate burrow-mottling throughout. Dark layers enriched in terrigenous silty clay relative to light layers.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="padding-left: 20px;">4, 60 D</p> <p>TEXTURE:</p> <p>Silt 10 Clay 90</p> <p>COMPOSITION:</p> <p>Clay 10 Diatoms 10 Dolomite Tr Foraminifers Tr Inorganic calcite 5 Mica Tr Nannofossils 75 Quartz Tr Radiolarians Tr</p>
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								3						
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SITE 721 HOLE C CORE 15X CORED INTERVAL 2073.1-2082.8 mbsl; 128.3-138.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																				
PLIOCENE	* A/M NN12 <i>Amaurolithus tricorniculatus</i> - NN15 <i>Reticulofenestra pseudumbilica</i>		0.5	[Graphic Lithology]			<p>NANNOFOSSIL OOZE</p> <p>Core is slightly to moderately disturbed throughout.</p> <p>Major lithology: NANNOFOSSIL OOZE. Alternating light and dark bands of light gray (5Y 7/1, 6/1) and light olive gray (5Y 6/2) to olive (5Y 4/3, 5/3) and olive gray (5Y 5/2). Slight to moderate burrow-mottling throughout. Dark layers enriched in terrigenous silty clay relative to light layers.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2.80</td> <td>4.80</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Silt</td> <td>15</td> <td>20</td> </tr> <tr> <td>Clay</td> <td>85</td> <td>80</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>10</td> <td>10</td> </tr> <tr> <td>Diatoms</td> <td>10</td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td>Tr</td> <td>5</td> </tr> <tr> <td>Inorganic calcite</td> <td>Tr</td> <td>5</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>80</td> <td>75</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> <td>5</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>Tr</td> </tr> </table>		2.80	4.80	D	D	D	Silt	15	20	Clay	85	80	Clay	10	10	Diatoms	10	Tr	Foraminifers	Tr	5	Inorganic calcite	Tr	5	Mica	Tr	Tr	Nannofossils	80	75	Quartz	Tr	5	Radiolarians	Tr	Tr
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		Diatoms	10	Tr																																							
Foraminifers	Tr	5																																									
Inorganic calcite	Tr	5																																									
Mica	Tr	Tr																																									
Nannofossils	80	75																																									
Quartz	Tr	5																																									
Radiolarians	Tr	Tr																																									
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