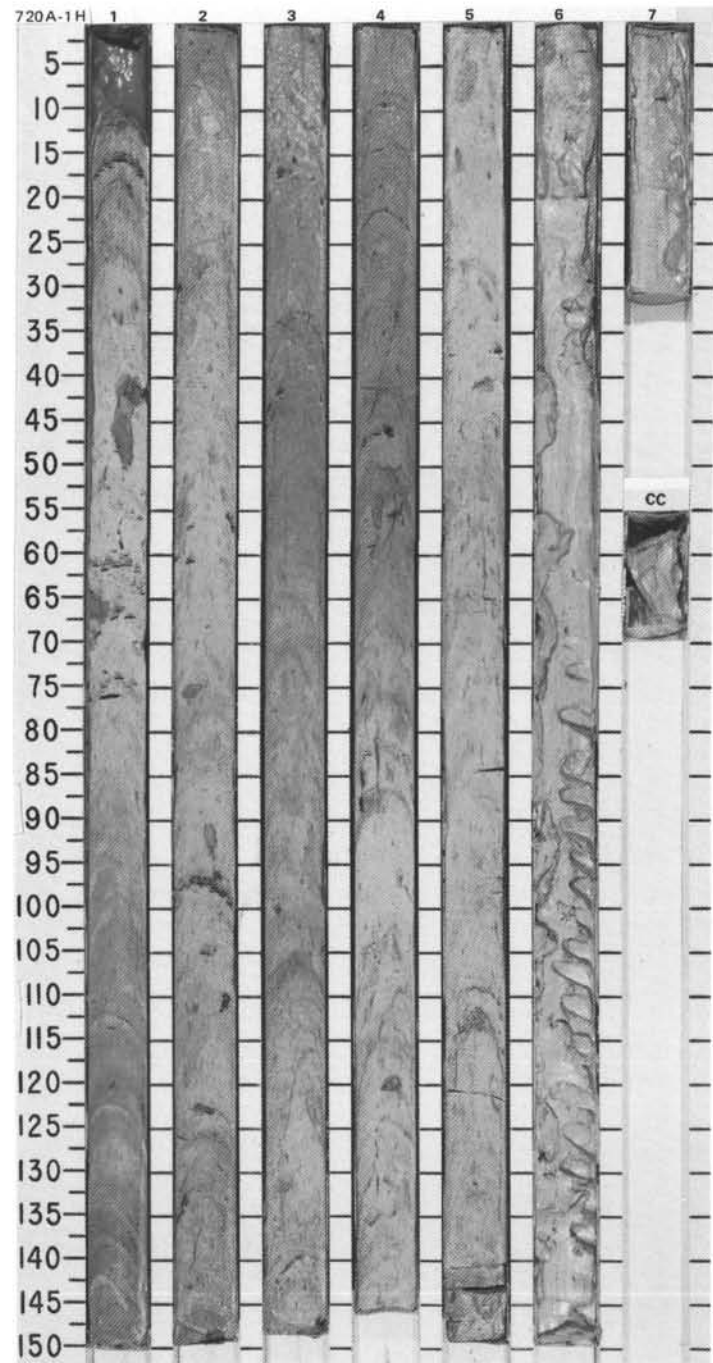


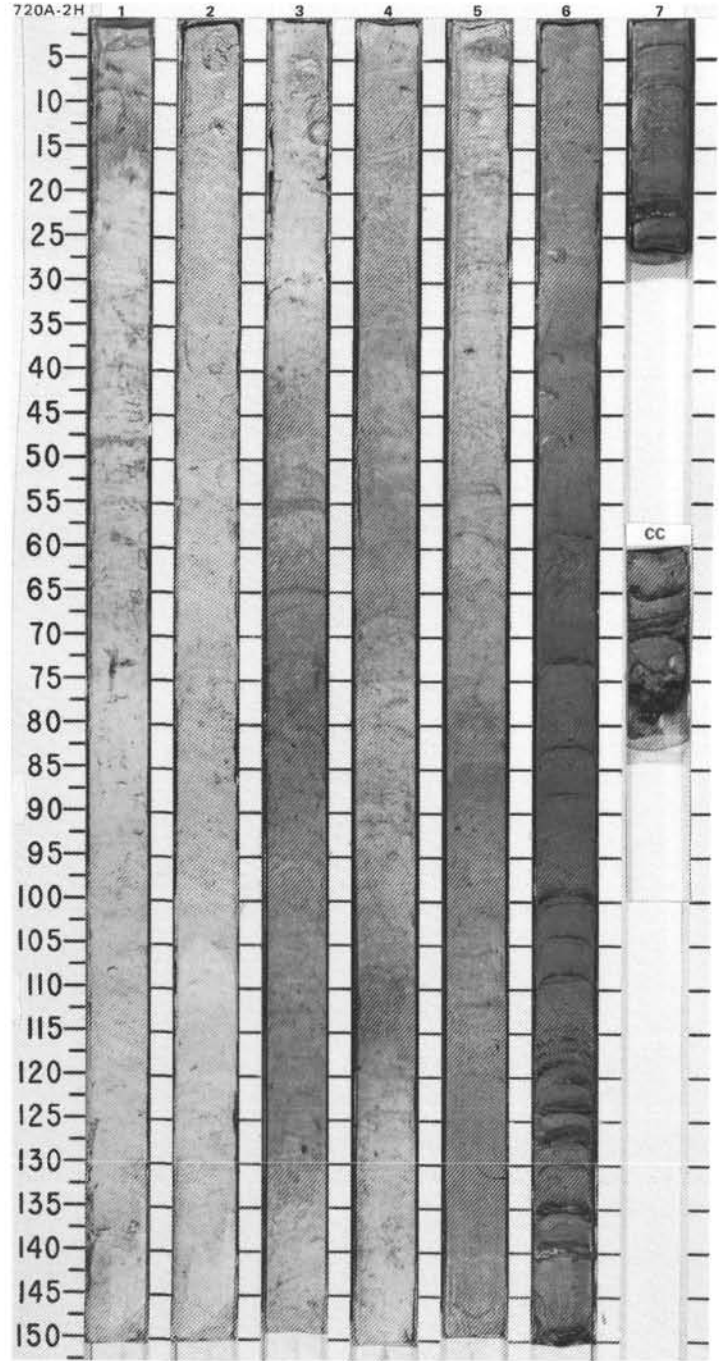
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																																								
	FORAMINIFERS	NANNOFOSSILS	RADIOLIARIANS	DIATOMS									CHEMISTRY																																																																																																																							
PLEISTOCENE	*A/P											<p>NANNOFOSSIL OOZE and FORAMINIFER-BEARING NANNOFOSSIL OOZE</p> <p>Section 3, 116-138 cm, and Section 5, 142 cm, to CC, are moderately to highly disturbed. Remainder of core is slightly disturbed to undisturbed.</p> <p>Major lithology: NANNOFOSSIL OOZE and FORAMINIFER-BEARING NANNOFOSSIL OOZE, gray (5Y 6/1) to light olive gray (5Y 6/2) and grayish green (5G 5/2). Slightly bioturbated throughout, with faint color banding at cm scale common.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 29</td> <td>1, 119</td> <td>5, 130</td> <td>CC</td> <td>2, 98</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>10</td> <td>1</td> <td>10</td> <td>10</td> <td>15</td> </tr> <tr> <td>Silt</td> <td>10</td> <td>7</td> <td>15</td> <td>45</td> <td>15</td> </tr> <tr> <td>Clay</td> <td>80</td> <td>92</td> <td>75</td> <td>45</td> <td>70</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. minerals</td> <td>2</td> <td>—</td> <td>1</td> <td>Tr</td> <td>2</td> </tr> <tr> <td>Bioclasts</td> <td>—</td> <td>—</td> <td>5</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>5</td> <td>—</td> <td>6</td> <td>3</td> <td>3</td> </tr> <tr> <td>Diatoms</td> <td>Tr</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>2 Dolomite</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Feldspar</td> <td>—</td> <td>Tr</td> <td>1</td> <td>—</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>5</td> <td>7</td> <td>5</td> <td>20</td> <td>5</td> </tr> <tr> <td>Volcanic glass</td> <td>—</td> <td>2</td> <td>2</td> <td>2</td> <td>5</td> </tr> <tr> <td>Glaucinite</td> <td>—</td> <td>—</td> <td>1</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>80</td> <td>84</td> <td>75</td> <td>70</td> <td>80</td> </tr> <tr> <td>Opauques</td> <td>—</td> <td>2</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>3</td> <td>5</td> <td>2</td> <td>5</td> <td>5</td> </tr> <tr> <td>Radiolarians</td> <td>—</td> <td>—</td> <td>Tr</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Sponge spicules</td> <td>—</td> <td>—</td> <td>Tr</td> <td>Tr</td> <td>—</td> </tr> </table>		1, 29	1, 119	5, 130	CC	2, 98		D	D	D	D	M	Sand	10	1	10	10	15	Silt	10	7	15	45	15	Clay	80	92	75	45	70	Access. minerals	2	—	1	Tr	2	Bioclasts	—	—	5	—	—	Clay	5	—	6	3	3	Diatoms	Tr	Tr	—	—	—	2 Dolomite	—	Tr	—	—	—	Feldspar	—	Tr	1	—	—	Foraminifers	5	7	5	20	5	Volcanic glass	—	2	2	2	5	Glaucinite	—	—	1	Tr	—	Mica	—	—	—	—	—	Nannofossils	80	84	75	70	80	Opauques	—	2	—	—	—	Quartz	3	5	2	5	5	Radiolarians	—	—	Tr	Tr	—	Sponge spicules	—	—	Tr	Tr	—
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*R/P	NN21	*A/G	*A/M	*A/M -G	$\phi = 89.6 \gamma = 1.55$ $\phi = 74.1 \gamma = 1.51$	1.0																																																																																																																														
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Information on Core Description Forms, for ALL sites, represents field notes taken aboard ship. Some of this information has been refined in accord with post-cruise findings, but production schedules prohibit definitive correlation of these forms with subsequent findings. Thus the reader should be alerted to the occasional ambiguity or discrepancy.

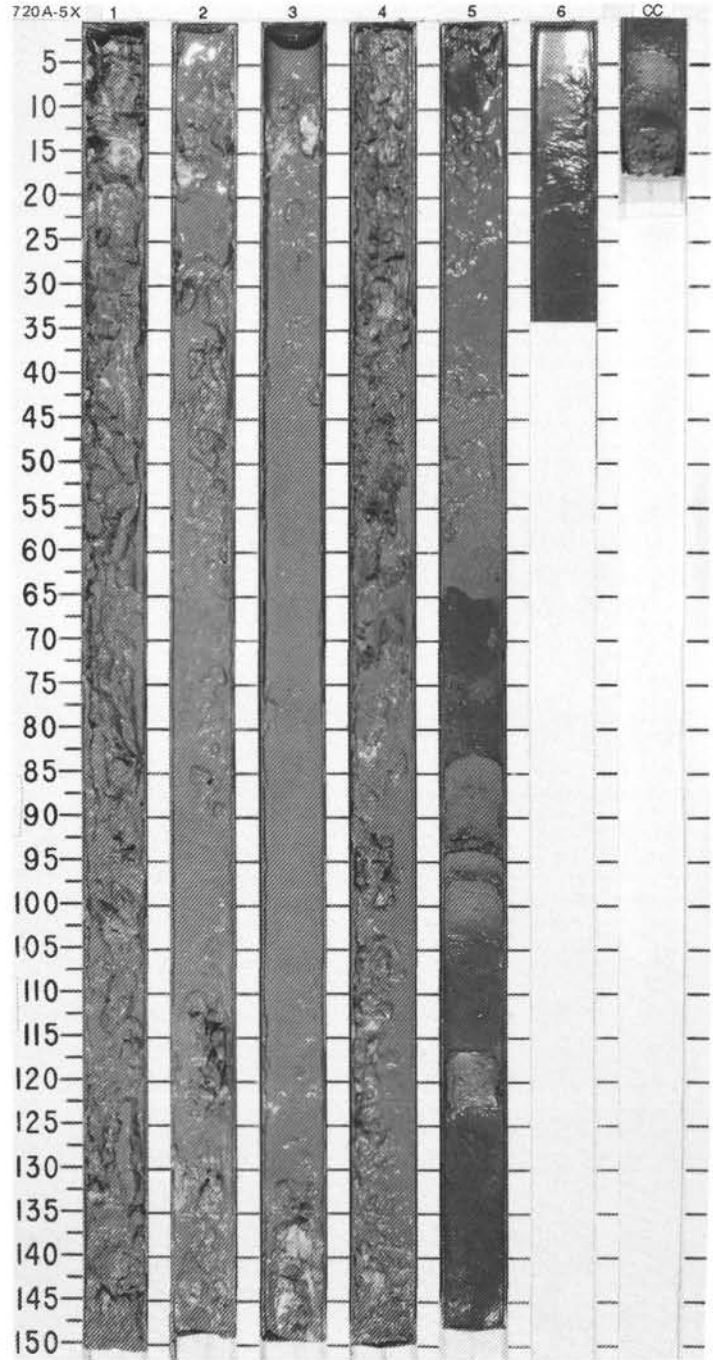
SITE 720 HOLE A CORE 2H CORED INTERVAL 4057.7-4067.3 mbsf; 9.4-19.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	FORAMINIFERS	MANNOFOSFILLS	RADIOLARIANS	DIAZOMES	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SEC. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																																		
PLEISTOCENE	N23	*A/P														<p>NANNOFOSSIL OOZE, MUD, and CLAYEY SILT</p> <p>CC is moderately disturbed. Remainder of core is undisturbed.</p> <p>Major lithologies:</p> <p>a. NANNOFOSSIL OOZE, greenish gray (5GY 5/1) to light greenish gray (5GY 7/1), light gray (5Y 7/1), and olive gray (5Y 5/2). Slight to moderate bioturbation throughout, with minor faint color banding. Section 1 to Section 6, 32 cm.</p> <p>b. Interbedded MUD and CLAYEY SILT, dark gray (5Y 4/1) and very dark grayish brown (10YR 3/2) to black (5Y 2.5/1). Silty intervals average 2 cm in thickness, mud layers average 2-5 cm in thickness. Silty intervals generally have sharp bases and gradational tops. Section 6, 32 cm, to CC.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>3, 81</td> <td>5, 27</td> <td>6, 80</td> <td>6, 125</td> <td>CC</td> </tr> <tr> <td></td> <td>M</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>—</td> <td>10</td> <td>—</td> <td>—</td> <td>2</td> </tr> <tr> <td>Silt</td> <td>20</td> <td>10</td> <td>70</td> <td>75</td> <td>60</td> </tr> <tr> <td>Clay</td> <td>80</td> <td>80</td> <td>30</td> <td>25</td> <td>38</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. minerals</td> <td>3</td> <td>2</td> <td>4</td> <td>4</td> <td>Tr</td> </tr> <tr> <td>Bioclasts</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>5</td> <td>5</td> <td>23</td> <td>23</td> <td>5</td> </tr> <tr> <td>Diatoms</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Feldspar</td> <td>—</td> <td>—</td> <td>4</td> <td>4</td> <td>5</td> </tr> <tr> <td>Foraminifers</td> <td>5</td> <td>10</td> <td>4</td> <td>—</td> <td>—</td> </tr> <tr> <td>Volcanic glass</td> <td>3</td> <td>2</td> <td>4</td> <td>4</td> <td>15</td> </tr> <tr> <td>Mica</td> <td>2</td> <td>3</td> <td>4</td> <td>4</td> <td>—</td> </tr> <tr> <td>Inorganic calcite</td> <td>—</td> <td>—</td> <td>9</td> <td>9</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>75</td> <td>75</td> <td>—</td> <td>—</td> <td>35</td> </tr> <tr> <td>Plant debris</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>3</td> <td>45</td> <td>50</td> <td>40</td> </tr> <tr> <td>Radiolarians</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Sponge spicules</td> <td>2</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </table>		3, 81	5, 27	6, 80	6, 125	CC		M	D	D	D	D	Sand	—	10	—	—	2	Silt	20	10	70	75	60	Clay	80	80	30	25	38	Access. minerals	3	2	4	4	Tr	Bioclasts	—	—	Tr	—	—	Clay	5	5	23	23	5	Diatoms	Tr	—	—	—	—	Feldspar	—	—	4	4	5	Foraminifers	5	10	4	—	—	Volcanic glass	3	2	4	4	15	Mica	2	3	4	4	—	Inorganic calcite	—	—	9	9	—	Nannofossils	75	75	—	—	35	Plant debris	—	Tr	—	—	—	Quartz	5	3	45	50	40	Radiolarians	—	Tr	—	—	—	Sponge spicules	2	—	—	—	—
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*C/G	*A/G NN20	*A/G	*R/M					$\phi = 67.7$ $\gamma = 1.55$			0.5																																																																																																																							
*R/M								$\phi = 70.1$ $\gamma = 1.55$			1.0																																																																																																																							
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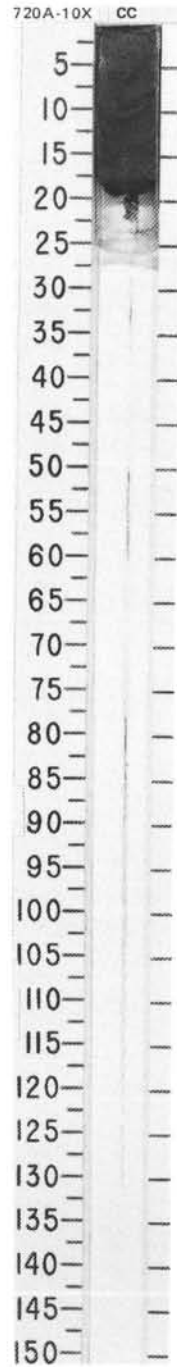


SITE 720 HOLE A CORE 5X CORED INTERVAL 4086.5-4096.2 mbsl; 38.2-47.9 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGIC	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																
FORAMINIFERS	NANNOFOSSILS																																																																																											
PLEISTOCENE												<p>NANNOFOSSIL OOZE to CALCAREOUS MUD, and interbedded MUD and SANDY SILT/SILTY SAND</p> <p>Section 1 to Section 5, 70 cm, is highly disturbed. Remainder of core is undisturbed to slightly disturbed.</p> <p>Major lithologies: a. NANNOFOSSIL OOZE to CALCAREOUS MUD, dark gray (5Y 4/1) to greenish gray (5GY 6/1), highly disturbed to soupy. Section 1 to Section 5, 70 cm. b. Interbedded MUD and SANDY SILT/SILTY SAND, dark gray (5Y 4/1) and very dark gray (5Y 3/1), respectively. Sand layers are 2-40 cm thick, have sharp bases, and fine upward to gradational tops. Overlain by homogeneous mud layers, 1-10 cm thick. Section 5, 70 cm, to CC.</p> <p>Minor lithology: Nannofossil ooze, yellowish brown (10YR 5/4). Section 2, 129-133 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2,121</td> <td>2,130</td> <td>5,88</td> <td>5,112</td> </tr> <tr> <td>D</td> <td></td> <td>M</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>5</td> <td>5</td> <td>40</td> <td></td> </tr> <tr> <td>Silt</td> <td>50</td> <td>20</td> <td>15</td> <td>55</td> </tr> <tr> <td>Clay</td> <td>45</td> <td>75</td> <td>80</td> <td>5</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. minerals</td> <td>5</td> <td>3</td> <td>10</td> <td></td> </tr> <tr> <td>Clay</td> <td>30</td> <td>10</td> <td>30</td> <td></td> </tr> <tr> <td>Dolomite</td> <td>Tr</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Feldspar</td> <td>5</td> <td></td> <td>5</td> <td>20</td> </tr> <tr> <td>Foraminifers</td> <td>10</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Volcanic glass</td> <td>10</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Mica</td> <td>5</td> <td>2</td> <td>10</td> <td>5</td> </tr> <tr> <td>Inorganic calcite</td> <td>10</td> <td>10</td> <td></td> <td></td> </tr> <tr> <td>Nannofossils</td> <td></td> <td>70</td> <td>5</td> <td></td> </tr> <tr> <td>Quartz</td> <td>25</td> <td>5</td> <td>50</td> <td>65</td> </tr> <tr> <td>Radiolarians</td> <td></td> <td>Tr</td> <td></td> <td></td> </tr> </table>		2,121	2,130	5,88	5,112	D		M	D	D	Sand	5	5	40		Silt	50	20	15	55	Clay	45	75	80	5	Access. minerals	5	3	10		Clay	30	10	30		Dolomite	Tr				Feldspar	5		5	20	Foraminifers	10				Volcanic glass	10				Mica	5	2	10	5	Inorganic calcite	10	10			Nannofossils		70	5		Quartz	25	5	50	65	Radiolarians		Tr		
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Radiolarians		Tr																																																																																										
*R/P	N22	<i>Gephyrocapsa oceanica</i>		● $\phi=55.9$ $\gamma=1.85$	[C-1.76]	OC-0.38	1																																																																																					
*A/M	NN20						Barren	2																																																																																				
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R/M	R/M			● $\phi=57.2$ $\gamma=1.93$	[C-1.81]	OC-0.41	4																																																																																					
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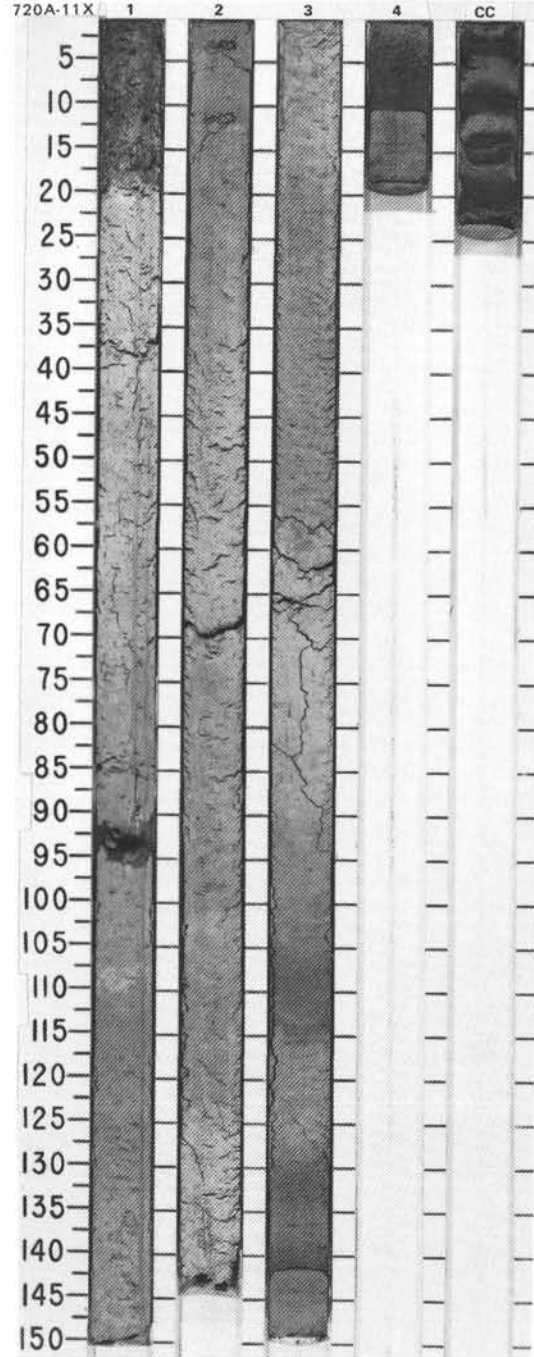


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANOFOSSILS	RADIOLARIANS	DIATOMS								
PLEISTOCENE	N22 Barrén *	NN19 F/M *	Barrén *	R/P *				CC			*	<p>SANDY SILT</p> <p>Entire core is undisturbed.</p> <p>Major lithology: SANDY SILT, very dark gray (5Y 3/1).</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">CC, 8 D</p> <p>TEXTURE:</p> <p>Sand 30 Silt 50 Clay 20</p> <p>COMPOSITION:</p> <p>Clay 5 Feldspar 5 Volcanic glass Tr Mica 5 Quartz 80 Rock fragments 5</p>



SITE 720 HOLE A CORE 11X CORED INTERVAL 4144.7-4154.3 mbsl; 96.4-106.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																
PLEISTOCENE		* A/M	* C/M-P	* A/M	NN19	* A/G <i>Pseudoemiliania lacunosa</i>	Barren	* R/P	C1R							<p>NANNOFOSSIL OOZE, and interbedded MUD and SILTY MUD</p> <p>Entire core is undisturbed to slightly disturbed.</p> <p>Major lithologies: a. NANNOFOSSIL OOZE, very dark gray (2.5Y 3/0), olive gray (5Y 4/2), and light olive gray (5Y 6/2), slightly to moderately bioturbated throughout, with faint color banding in Section 2. Section 1 to Section 3, 130 cm. b. Interbedded MUD and SILTY MUD, very dark gray (5Y 3/1) to dark gray (5Y 4/1), form upward-fining intervals 5-20 cm thick with sharp, silty mud bases. Section 3, 130 cm, to CC.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 7</td> <td>1, 70</td> <td>3, 123</td> </tr> <tr> <td></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>5</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>95</td> <td>95</td> <td>90</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>10</td> <td>—</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>2</td> <td>Tr</td> <td>80</td> </tr> <tr> <td>Nannofossils</td> <td>70</td> <td>95</td> <td>80</td> </tr> <tr> <td>Quartz</td> <td>20</td> <td>3</td> <td>20</td> </tr> </table>		1, 7	1, 70	3, 123		D	D	D	Silt	5	5	10	Clay	95	95	90	Clay	10	—	—	Foraminifers	2	Tr	80	Nannofossils	70	95	80	Quartz	20	3	20
	1, 7	1, 70	3, 123																																													
	D	D	D																																													
Silt	5	5	10																																													
Clay	95	95	90																																													
Clay	10	—	—																																													
Foraminifers	2	Tr	80																																													
Nannofossils	70	95	80																																													
Quartz	20	3	20																																													
								• $\phi = 69.3$ $\gamma = 1.81$ IC=8.97 OC=0.30 • IC=1.48 • OC=0.30 CC																																								



TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
PLEISTOCENE													
	*R/P	N22	NN19	Barren									
		<i>Pseudoemiliania lacunosa</i>	*F/M-P	*									
				*Barren									
					φ=45.0 γ=1.98								
					OC=1.38								
					OC=3.33								

SILT and CLAY

Entire core is undisturbed to slightly disturbed.

Major lithology: SILT and CLAY, dark olive gray (5Y 3/2) to very dark gray (5Y 3/1), fining slightly upward from sharp base over intervals of 3-15 cm. SILT zones are micaceous; zone at Section 2, 21-28 cm, contains abundant charcoal.

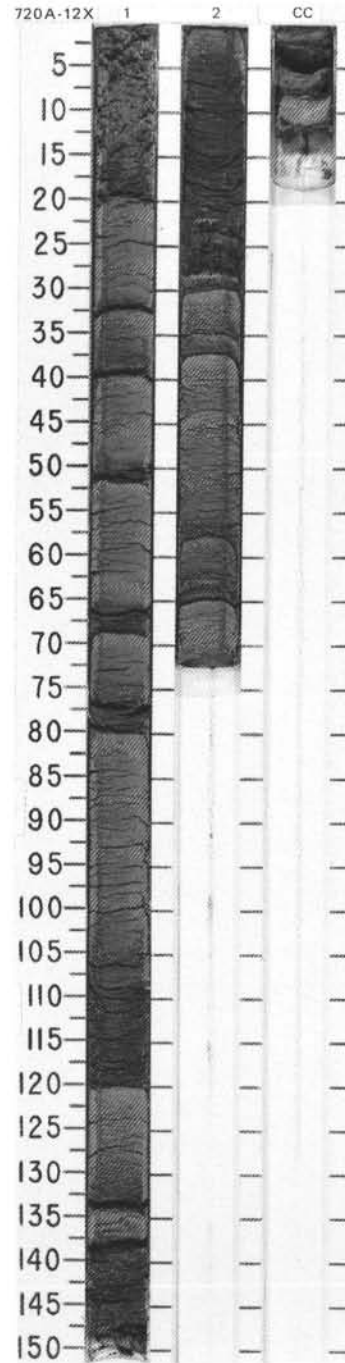
SMEAR SLIDE SUMMARY (%):

	1, 80 D	2, 25 M	2, 29 M
Sand	30	20	70
Silt	5	30	10
Clay	5	40	10

TEXTURE:

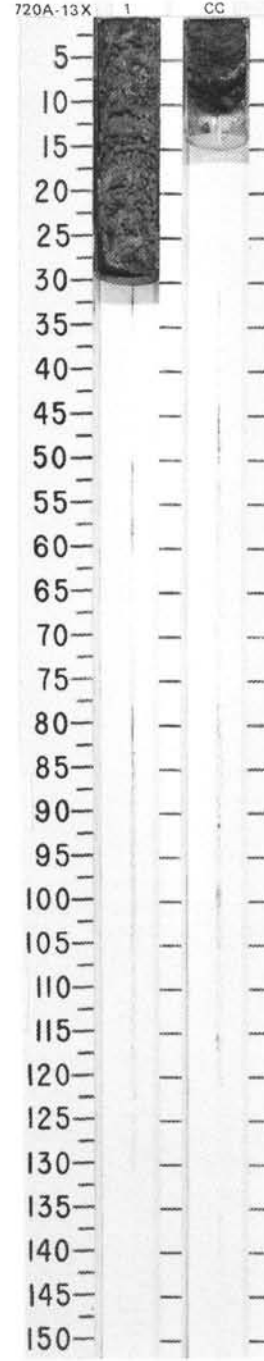
COMPOSITION:

Access. minerals	1	—	3
Calcareous frag.	—	—	Tr
Clay	65	10	—
Feldspar	—	20	20
Fish remains	—	Tr	—
Volcanic glass	—	5	—
Inorganic calcite	—	15	—
Mica	1	15	7
Nannofossils	Tr	—	—
Opaques	—	Tr	—
Plant debris	—	5	—
Quartz	33	30	60
Rock fragments	—	—	10



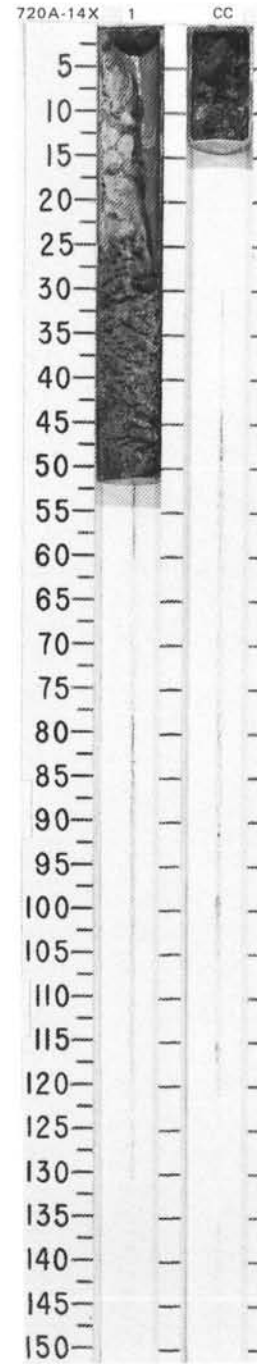
SITE 720 HOLE A CORE 13X CORED INTERVAL 4164.0-4173.7 mbsi; 115.7-125.4 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
PLEISTOCENE	R/P# N22	F/M-P# NN19	*				1						CLAY and SILTY CLAY Section 1 is highly disturbed. CC is slightly disturbed. Major lithology: CLAY and SILTY CLAY, dark gray (5Y 4/1).
	<i>Pseudoemiliania lacunosa</i>	Barren											



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	*R/P N22	*C/M -P NN19	*	*R/M	φ=54.4	γ=1.84	IC-1.87 OC-0.32	1				*	<p>CALCAREOUS MUD and NANNOFOSSIL OOZE</p> <p>Entire core is highly disturbed.</p> <p>Major lithology: CALCAREOUS MUD and NANNOFOSSIL OOZE, light gray (5Y 7/1) to very dark gray (5Y 3/1).</p> <p>SMEAR SLIDE SUMMARY</p> <table border="0"> <tr> <td></td> <td>1, 18</td> <td>1, 34</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Silt</td> <td>10</td> <td>20</td> </tr> <tr> <td>Clay</td> <td>90</td> <td>80</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Clay</td> <td>10</td> <td>45</td> </tr> <tr> <td>Feldspar</td> <td>5</td> <td>10</td> </tr> <tr> <td>Hornblende</td> <td>-</td> <td>Tr</td> </tr> <tr> <td>Inorganic calcite</td> <td>10</td> <td>20</td> </tr> <tr> <td>Mica</td> <td>-</td> <td>10</td> </tr> <tr> <td>Nannofossils</td> <td>70</td> <td>5</td> </tr> <tr> <td>Opauques</td> <td>-</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>10</td> </tr> </table>		1, 18	1, 34		D	D	Silt	10	20	Clay	90	80	Clay	10	45	Feldspar	5	10	Hornblende	-	Tr	Inorganic calcite	10	20	Mica	-	10	Nannofossils	70	5	Opauques	-	Tr	Quartz	5	10
	1, 18	1, 34																																															
	D	D																																															
Silt	10	20																																															
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Feldspar	5	10																																															
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Inorganic calcite	10	20																																															
Mica	-	10																																															
Nannofossils	70	5																																															
Opauques	-	Tr																																															
Quartz	5	10																																															

CORE 117-720A-15X NO RECOVERY

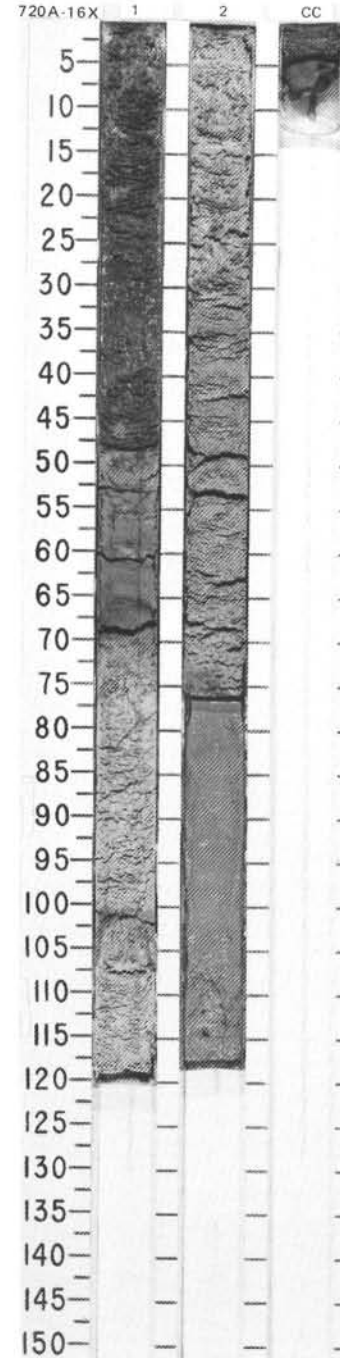


SITE 720 HOLE A CORE 16X CORED INTERVAL 4193.0-4202.7 mbsf; 144.7-154.4 mbsf

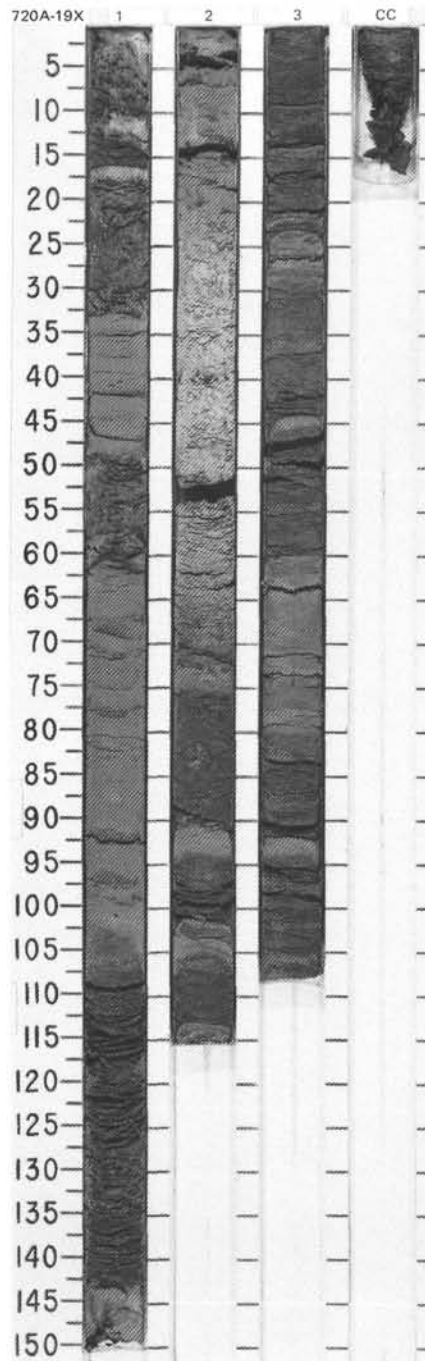
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																									
PLEISTOCENE	* R/P	N22	* A/G										<p>MUD, MUDDY SILT, SANDY SILT, and NANNOFOSSIL OOZE</p> <p>Section 2, 75 cm, to CC is highly disturbed. Remainder of the core is undisturbed.</p> <p>Major lithologies: a. MUD, MUDDY SILT, and SANDY SILT, gray (5Y 5/1) to very dark gray (5Y 3/1), uniform. Section 1, 0-47 cm, and Section 2 to CC. b. NANNOFOSSIL OOZE, greenish gray (5GY 8/1) to dark greenish gray (5GY 4/1), with minor bioturbation. Section 1, 47-120 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 17</td> <td>1, 88</td> </tr> <tr> <td>TEXTURE:</td> <td>D</td> <td>D</td> </tr> <tr> <td>Sand</td> <td>20</td> <td>—</td> </tr> <tr> <td>Silt</td> <td>60</td> <td>7</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>93</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. minerals</td> <td>5</td> <td>—</td> </tr> <tr> <td>Diatoms</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Dolomite</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Feldspar</td> <td>5</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>Tr</td> <td>3</td> </tr> <tr> <td>Volcanic glass</td> <td>15</td> <td>Tr</td> </tr> <tr> <td>Inorganic calcite</td> <td>10</td> <td>5</td> </tr> <tr> <td>Mica</td> <td>5</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>—</td> <td>90</td> </tr> <tr> <td>Opaques</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>60</td> <td>2</td> </tr> </table>		1, 17	1, 88	TEXTURE:	D	D	Sand	20	—	Silt	60	7	Clay	20	93	Access. minerals	5	—	Diatoms	—	Tr	Dolomite	Tr	—	Feldspar	5	—	Foraminifers	Tr	3	Volcanic glass	15	Tr	Inorganic calcite	10	5	Mica	5	—	Nannofossils	—	90	Opaques	—	Tr	Quartz	60	2
		1, 17	1, 88																																																										
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Diatoms	—	Tr																																																											
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Feldspar	5	—																																																											
Foraminifers	Tr	3																																																											
Volcanic glass	15	Tr																																																											
Inorganic calcite	10	5																																																											
Mica	5	—																																																											
Nannofossils	—	90																																																											
Opaques	—	Tr																																																											
Quartz	60	2																																																											
* C/M	NN19	* Barren																																																											
* F/M	* R/M	* Barren																																																											

CORE 117-720A-17X NO RECOVERY

CORE 117-720A-18X NO RECOVERY

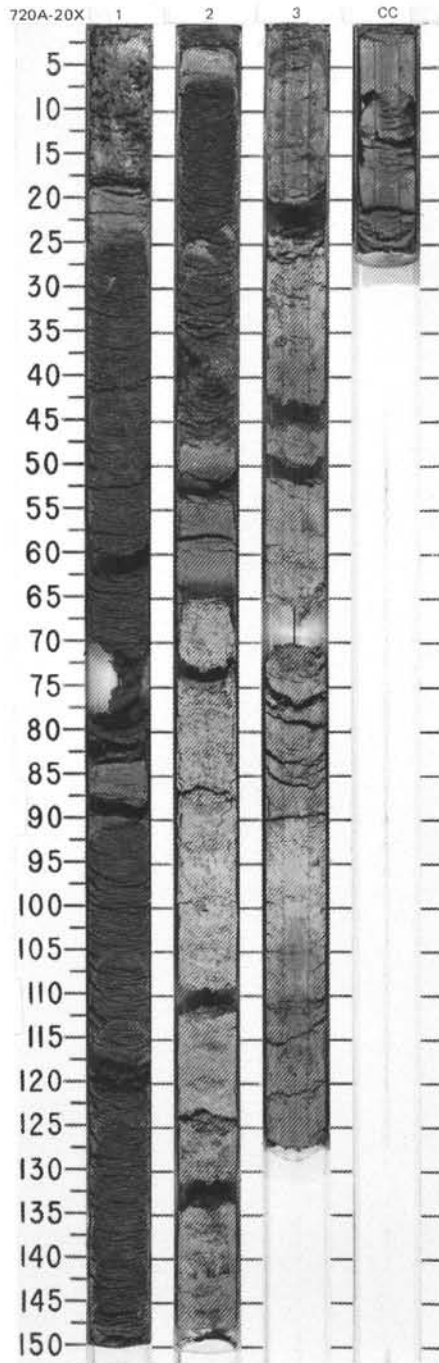


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. / SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS						
	PALEOMAGNETICS										
	PHYS. PROPERTIES										
	CHEMISTRY										
PLEISTOCENE											
*R/P	N22	*A/G									
*R/P	NN19										
*	Barren										
*R/P											



SITE 720 HOLE A CORE 20X CORED INTERVAL 4231.7-4241.3 mbsl; 183.4-193.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																			
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS								TESTICULIFERAN FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES																																																
PLEISTOCENE	R/P*	N22									<p>CLAY to SILTY SAND and NANNOFOSSIL OOZE</p> <p>Entire core is undisturbed to slightly disturbed.</p> <p>Major lithologies:</p> <p>a. CLAY to SILTY SAND, grading from very dark gray (5Y 3/1) silty sand at base to olive gray (5Y 4/2) mud over 10-80 cm intervals. Sequence repeated from Section 1 to Section 2, 64 cm.</p> <p>b. NANNOFOSSIL OOZE, greenish gray (5GY 5/1) to dark greenish gray (5GY 4/1), bioturbated, with foraminifers common. Section 2, 64 cm, to CC.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>1, 2</td> <td>3, 118</td> </tr> <tr> <td></td> <td>M</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>25</td> <td>25</td> </tr> <tr> <td>Clay</td> <td>70</td> <td>70</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>—</td> </tr> <tr> <td>Diatoms</td> <td>5</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>—</td> <td>2</td> </tr> <tr> <td>Volcanic glass</td> <td>5</td> <td>—</td> </tr> <tr> <td>Inorganic calcite</td> <td>10</td> <td>20</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>2</td> </tr> <tr> <td>Nannofossils</td> <td>60</td> <td>70</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>4</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Silicoflagellates</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Sponge spicules</td> <td>5</td> <td>—</td> </tr> </table>		1, 2	3, 118		M	D	Sand	5	5	Silt	25	25	Clay	70	70	Access. minerals	—	2	Clay	10	—	Diatoms	5	—	Foraminifers	—	2	Volcanic glass	5	—	Inorganic calcite	10	20	Mica	—	2	Nannofossils	60	70	Quartz	5	4	Radiolarians	Tr	—	Silicoflagellates	Tr	—	Sponge spicules	5	—
		1, 2	3, 118																																																											
		M	D																																																											
Sand	5	5																																																												
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	F/M*	*F/M	*F/M	*F/M																																																										
	CIR [CIR-1]																																																													

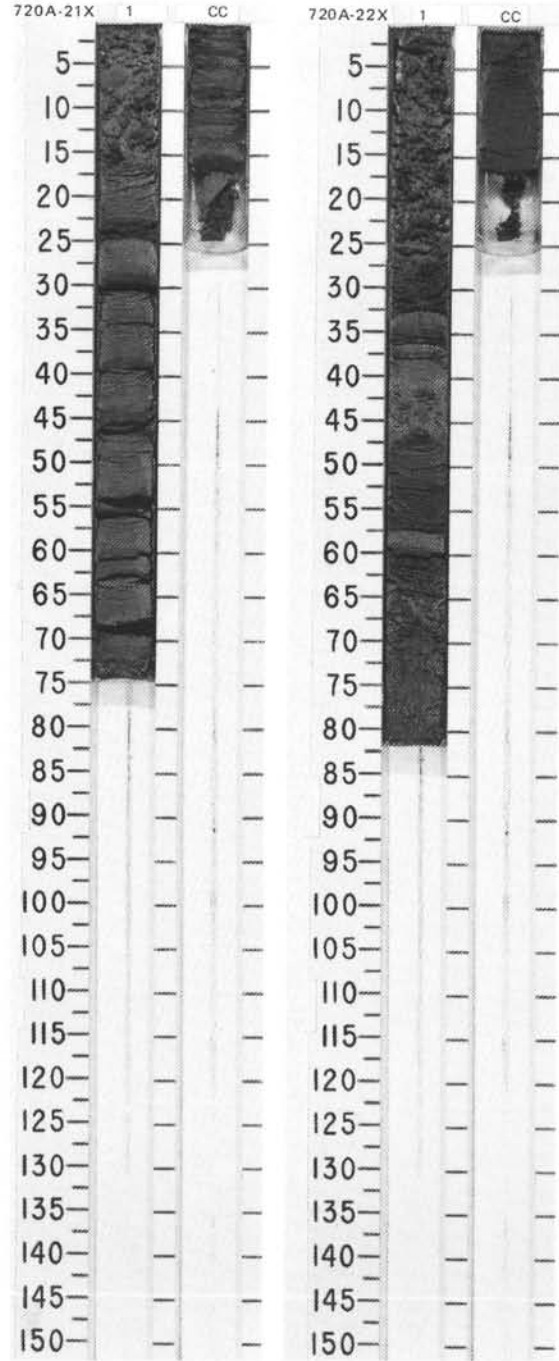


SITE 720 HOLE A CORE 21X CORED INTERVAL 4241.3-4251.0 mbsf; 193.0-202.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONS									
PLEISTOCENE	N22	NN19	*R/M	*	φ=53.3 1C=1.35 OC=0.35		1						MUD Section 1, 0-16 cm, is highly disturbed. Remainder of the core is undisturbed. Major lithology: MUD, very dark gray (5Y 3/1).

SITE 720 HOLE A CORE 22X CORED INTERVAL 4251.0-4260.7 mbsf; 202.7-212.4 mbsf

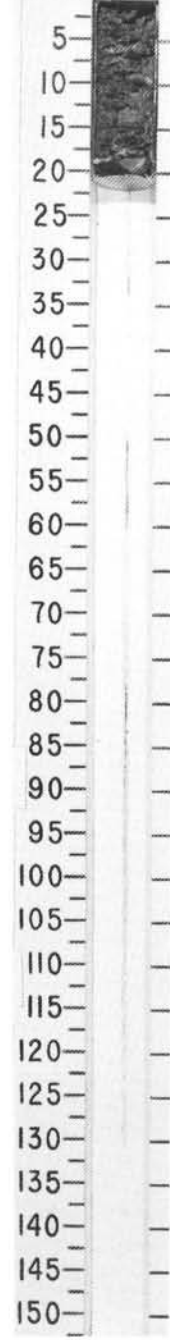
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONS									
PLEISTOCENE	*Barren	*R/P	*	*	φ=53.3 1C=1.14 OC=0.21		1						SAND and MUD Section 1, 0-26 cm, highly disturbed. Remainder of the core is undisturbed. Major lithology: Interbedded SAND and MUD, very dark gray (5Y 3/1), form upward-fining sequences with sharp bases and gradational tops.



SITE 720 HOLE A CORE 23X CORED INTERVAL 4260.7-4270.3 mbsl; 212.4-222.0 mbsf

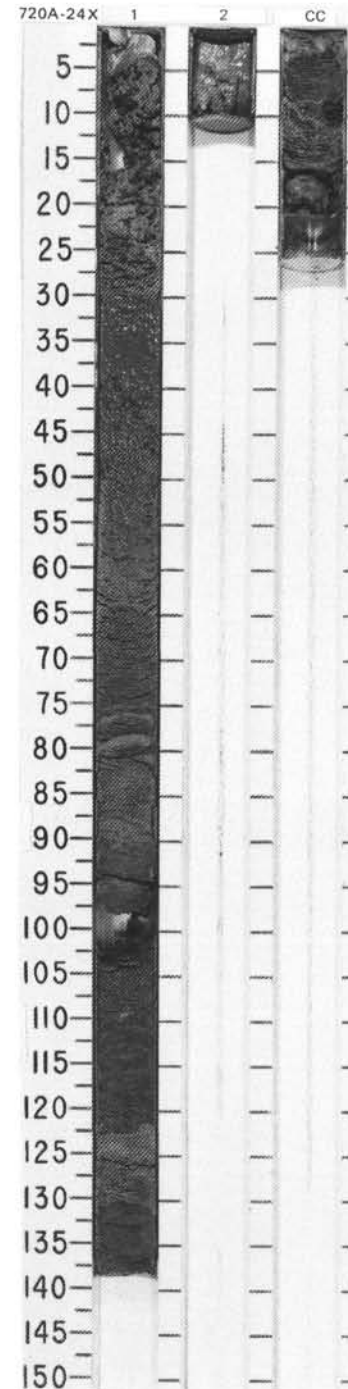
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	FORAMINIFERS	MAMMOFOSILS	RAD/OLARINANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
PLEISTOCENE		Barren*	R/P*	*		R/P*				CC						<p>SILTY SAND</p> <p>Entire core is moderately disturbed.</p> <p>Major lithology: SILTY SAND, very dark gray (5Y 3/1).</p>

720A-23X CC



TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																						
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																
PLEISTOCENE	Barren *	NN19	Barren						0.5 1.0		↑ ↑	* *	<p>SAND and MUD</p> <p>Section 1, 0-18 cm, and Section 2 are highly disturbed. Remainder of the core is undisturbed.</p> <p>Major lithology: Interbedded SAND and MUD, very dark gray (5Y 3/1), form upward-fining sequences with sharp bases and gradational tops. SAND layers are 10-30 cm thick and MUD layers are 1-10 cm thick. SAND is micaceous.</p> <p>Minor lithology: Nannofossil ooze, dark gray (5Y 3/1) to dark greenish gray (5GY 4/1), highly disturbed. Section 1, 0-18 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>20</td> <td>124</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>40</td> <td>60</td> </tr> <tr> <td>Clay</td> <td>60</td> <td>40</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. minerals</td> <td>2</td> <td>2</td> </tr> <tr> <td>Clay</td> <td>60</td> <td>40</td> </tr> <tr> <td>Feldspar</td> <td>2</td> <td>3</td> </tr> <tr> <td>Foraminifers</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Volcanic glass</td> <td>4</td> <td>5</td> </tr> <tr> <td>Inorganic calcite</td> <td>5</td> <td>10</td> </tr> <tr> <td>Mica</td> <td>2</td> <td>5</td> </tr> <tr> <td>Nannofossils</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>25</td> <td>35</td> </tr> </table>		20	124	D	D	D	Silt	40	60	Clay	60	40	Access. minerals	2	2	Clay	60	40	Feldspar	2	3	Foraminifers	Tr	—	Volcanic glass	4	5	Inorganic calcite	5	10	Mica	2	5	Nannofossils	Tr	—	Quartz	25	35
	20	124																																																		
D	D	D																																																		
Silt	40	60																																																		
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Quartz	25	35																																																		

CORE 117-720A-25X NO RECOVERY

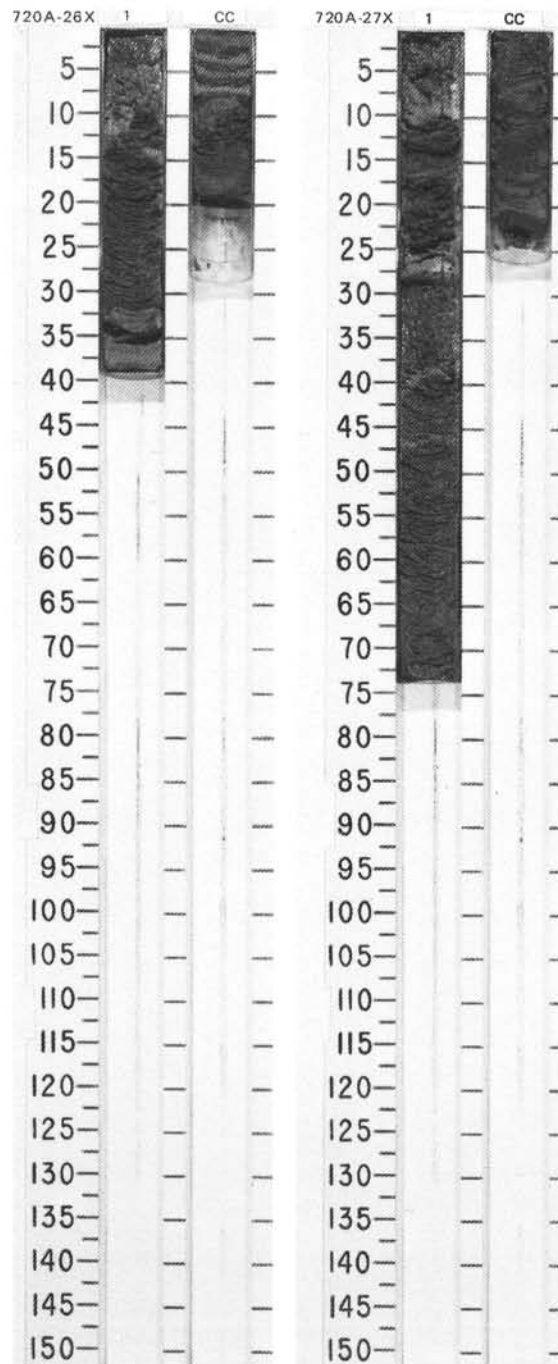


SITE 720 HOLE A CORE 26X CORED INTERVAL 4289.7-4299.3 mbsf; 241.4-251.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER						PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS									
PLEISTOCENE	*Barren	*Barren													<p>SAND and MUD</p> <p>Section 1, 0-12 cm, is highly disturbed. Remainder of the core is undisturbed.</p> <p>Major lithology: Interbedded SAND and MUD, very dark gray (5Y 3/1), form upward-fining sequences with sharp bases and gradational tops. SAND layers are 10-20 cm thick and MUD layers are 1-10 cm thick. SAND is micaceous.</p>
	<i>Pseudoemiliania lacunosa</i>	NN19	Barren				IC-0.87 CC-0.24	1	0.5						

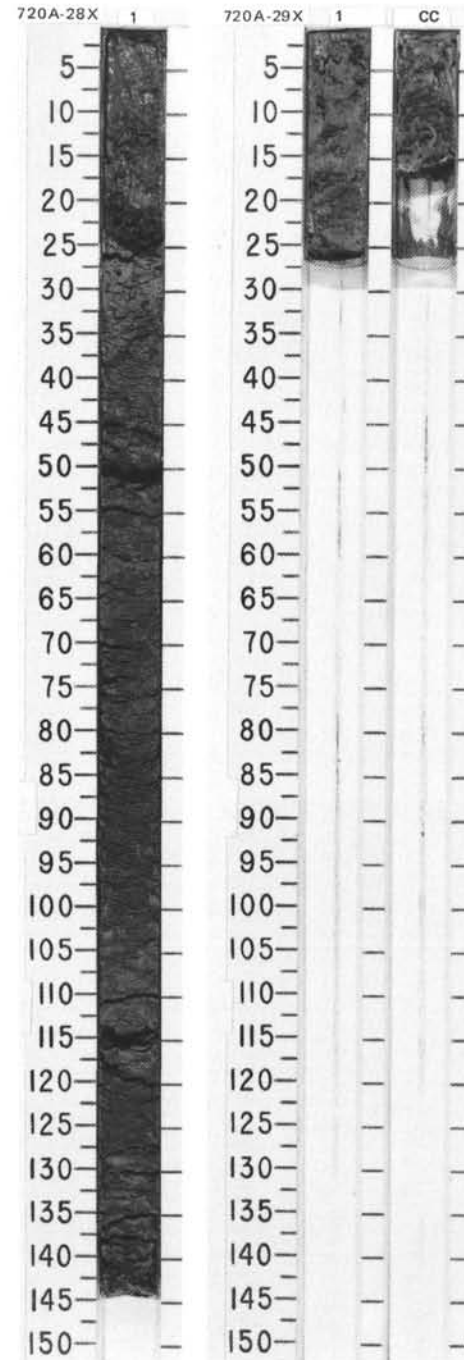
SITE 720 HOLE A CORE 27X CORED INTERVAL 4299.3-4308.8 mbsf; 251.0-260.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER						PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																																
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS																																																																																																																									
PLEISTOCENE	*Barren	*R/P													<p>SILTY SAND, SILT, and MUD</p> <p>Entire core is slightly to moderately disturbed.</p> <p>Major lithology: SILTY SAND, SILT, and MUD, very dark gray (5Y 3/1) to dark gray (5Y 4/2), form upward-fining sequences with sharp, sandy bases and gradational tops. SAND layers are 5-20 cm thick and MUD layers are 2-20 cm thick.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>1, 24 D</th> <th>1, 29 D</th> <th>1, 39 D</th> <th>1, 57 D</th> <th>CC, 1 D</th> <th>CC, 19 D</th> </tr> </thead> <tbody> <tr> <td>Sand</td> <td>—</td> <td>40</td> <td>20</td> <td>15</td> <td>15</td> <td>30</td> </tr> <tr> <td>Silt</td> <td>5</td> <td>50</td> <td>65</td> <td>70</td> <td>75</td> <td>60</td> </tr> <tr> <td>Clay</td> <td>95</td> <td>10</td> <td>15</td> <td>15</td> <td>10</td> <td>10</td> </tr> </tbody> </table> <p>TEXTURE:</p> <table border="1"> <thead> <tr> <th></th> <th>1, 24 D</th> <th>1, 29 D</th> <th>1, 39 D</th> <th>1, 57 D</th> <th>CC, 1 D</th> <th>CC, 19 D</th> </tr> </thead> <tbody> <tr> <td>Sand</td> <td>—</td> <td>40</td> <td>20</td> <td>15</td> <td>15</td> <td>30</td> </tr> <tr> <td>Silt</td> <td>5</td> <td>50</td> <td>65</td> <td>70</td> <td>75</td> <td>60</td> </tr> <tr> <td>Clay</td> <td>95</td> <td>10</td> <td>15</td> <td>15</td> <td>10</td> <td>10</td> </tr> </tbody> </table> <p>COMPOSITION:</p> <table border="1"> <thead> <tr> <th></th> <th>1, 24 D</th> <th>1, 29 D</th> <th>1, 39 D</th> <th>1, 57 D</th> <th>CC, 1 D</th> <th>CC, 19 D</th> </tr> </thead> <tbody> <tr> <td>Access. minerals</td> <td>—</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>30</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Feldspar</td> <td>10</td> <td>10</td> <td>15</td> <td>10</td> <td>15</td> <td>10</td> </tr> <tr> <td>Hornblende</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Inorganic calcite</td> <td>Tr</td> <td>Tr</td> <td>5</td> <td>Tr</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>15</td> <td>20</td> <td>20</td> <td>15</td> <td>10</td> <td>5</td> </tr> <tr> <td>Quartz</td> <td>45</td> <td>65</td> <td>60</td> <td>75</td> <td>75</td> <td>80</td> </tr> </tbody> </table>		1, 24 D	1, 29 D	1, 39 D	1, 57 D	CC, 1 D	CC, 19 D	Sand	—	40	20	15	15	30	Silt	5	50	65	70	75	60	Clay	95	10	15	15	10	10		1, 24 D	1, 29 D	1, 39 D	1, 57 D	CC, 1 D	CC, 19 D	Sand	—	40	20	15	15	30	Silt	5	50	65	70	75	60	Clay	95	10	15	15	10	10		1, 24 D	1, 29 D	1, 39 D	1, 57 D	CC, 1 D	CC, 19 D	Access. minerals	—	5	—	—	—	5	Clay	30	—	—	—	—	—	Feldspar	10	10	15	10	15	10	Hornblende	—	—	—	Tr	Tr	—	Inorganic calcite	Tr	Tr	5	Tr	Tr	—	Mica	15	20	20	15	10	5	Quartz	45	65	60	75	75	80
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	<i>Pseudoemiliania lacunosa</i>	NN19	Barren				IC-0.84 CC-0.29	1	0.5																																																																																																																						



SITE 720 HOLE A CORE 28X CORED INTERVAL 4308.8-4318.4 mbsl; 260.5-270.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONIA									
PLEISTOCENE	Barren*	NN19											<p>SAND and MUD</p> <p>Section 1, 0-23 cm, is highly disturbed. Remainder of the core is moderately disturbed.</p> <p>Major lithology: Interbedded SAND and MUD, dark gray (5Y 4/1). SAND layers are 2-30 cm thick and MUD layers are 3-35 cm thick.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">1, 87 D</p> <p>TEXTURE:</p> <p>Sand 40 Silt 50 Clay 10</p> <p>COMPOSITION:</p> <p>Clay 5 Inorganic calcite 2 Mica 15 Nannofossils 1 Quartz 76 Rock fragments 1</p>
	<i>Pseudoemiliania lacunosa</i>												

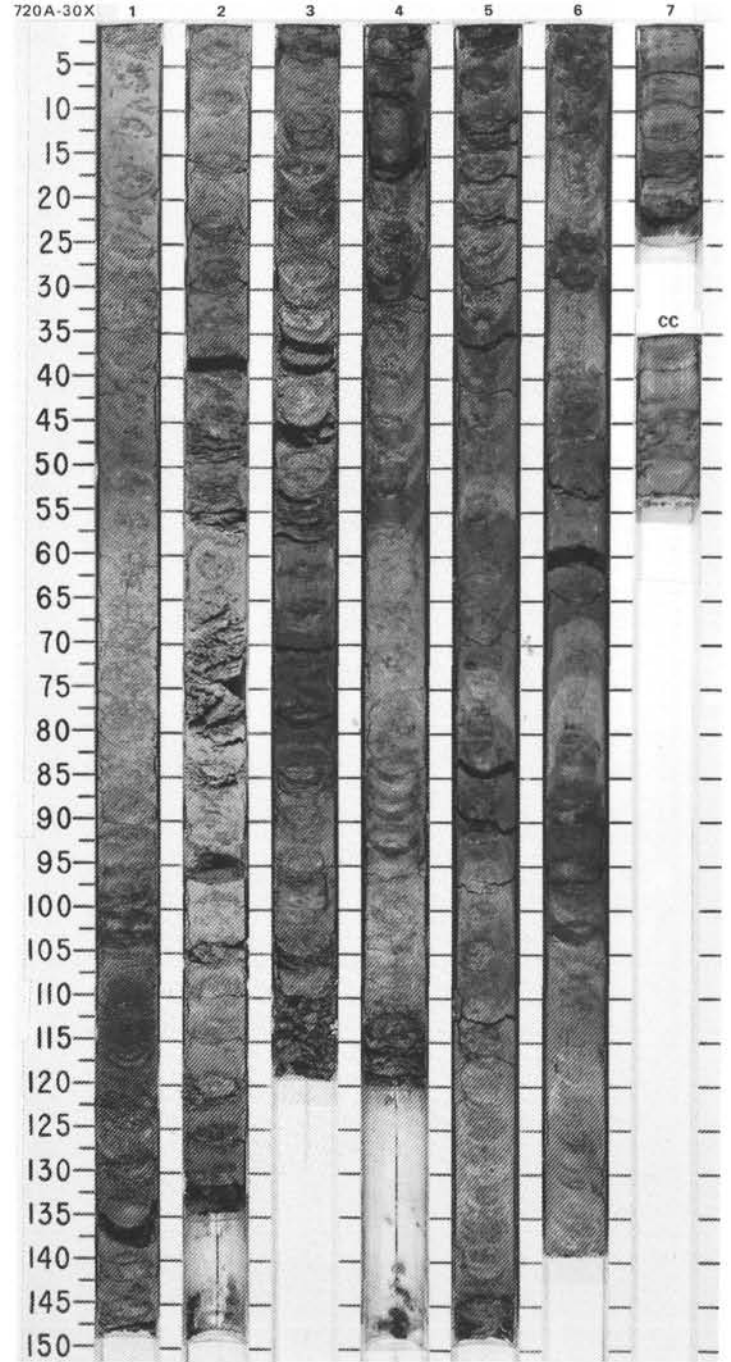


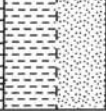
SITE 720 HOLE A CORE 29X CORED INTERVAL 4318.4-4328.1 mbsl; 270.1-279.8 mbsf

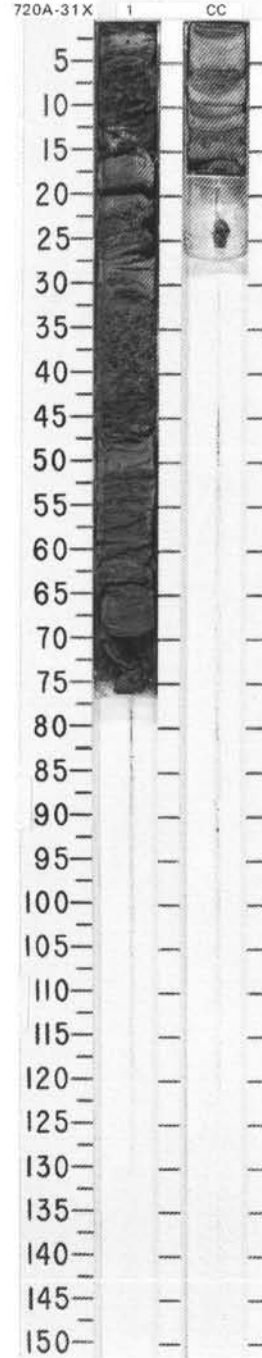
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONIA									
PLEISTOCENE	R/P*	F/P*											<p>MUD</p> <p>Entire core is moderately disturbed.</p> <p>Major lithology: MUD, dark olive gray (5Y 3/2), silty, with minor sand lenses.</p>
	N22	NN19											
	<i>Pseudoemiliania lacunosa</i>												

SITE 720 HOLE A CORE 30X CORED INTERVAL 4328.1-4337.7 mbsl; 279.8-289.4 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																		
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAATOMS									BENTHIC FORAMINIFERS	PALEOMAGNETICS																																																																																																
PLEISTOCENE	*Barren	*A/M	*A/M	*R/M	*F/M							<p>MUD and CLAY</p> <p>Entire core is moderately to highly disturbed.</p> <p>Major lithology: MUD and CLAY, olive gray (10Y 4/2), dark olive gray (5Y 3/2), dark greenish gray (5GY 4/1), and greenish gray (5GY 5/1), in alternating color bands 20-30 cm thick. Bioturbated and mottled throughout.</p> <p>Minor lithologies:</p> <p>a. Nannofossil ooze, gray (10Y 6/1) and bioturbated. Section 2, 56-115 cm.</p> <p>b. Silty clay and sandy silt, dark gray (5Y 4/1) and gray (5Y 5/1), respectively, interbedded on a scale of 5-10 cm. Sandy silt is micaceous. Section 7 to CC.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 18</td> <td>1, 113</td> <td>2, 90</td> <td>3, 75</td> <td>5, 140</td> <td>CC, 10</td> </tr> <tr> <td>D</td> <td></td> <td>M</td> <td>D</td> <td>M</td> <td>D</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>—</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>40</td> <td>40</td> <td>10</td> <td>5</td> <td>20</td> <td>75</td> </tr> <tr> <td>Clay</td> <td>60</td> <td>55</td> <td>90</td> <td>90</td> <td>80</td> <td>20</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. minerals</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>55</td> <td>30</td> <td>5</td> <td>50</td> <td>85</td> <td>10</td> </tr> <tr> <td>Feldspar</td> <td>—</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> <td>10</td> </tr> <tr> <td>Foraminifers</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Inorganic calcite</td> <td>30</td> <td>35</td> <td>30</td> <td>20</td> <td>—</td> <td>30</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>5</td> <td>5</td> <td>—</td> <td>—</td> <td>10</td> </tr> <tr> <td>Nannofossils</td> <td>5</td> <td>5</td> <td>50</td> <td>10</td> <td>5</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>20</td> <td>10</td> <td>15</td> <td>10</td> <td>40</td> </tr> <tr> <td>Radiolarians</td> <td>5</td> <td>—</td> <td>—</td> <td>5</td> <td>—</td> <td>—</td> </tr> </table>		1, 18	1, 113	2, 90	3, 75	5, 140	CC, 10	D		M	D	M	D	M	Sand	—	5	—	—	—	5	Silt	40	40	10	5	20	75	Clay	60	55	90	90	80	20	Access. minerals	5	—	—	—	—	—	Clay	55	30	5	50	85	10	Feldspar	—	5	—	—	—	10	Foraminifers	—	Tr	—	—	—	—	Inorganic calcite	30	35	30	20	—	30	Mica	—	5	5	—	—	10	Nannofossils	5	5	50	10	5	—	Quartz	—	20	10	15	10	40	Radiolarians	5	—	—	5	—	—
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*C/M	A/M * NN19	*A/G	*F/G	*F/M	<p>• $\phi=54.4$ $\gamma=1.84$</p> <p>IC-4.09 OC-0.88</p>	1																																																																																																								
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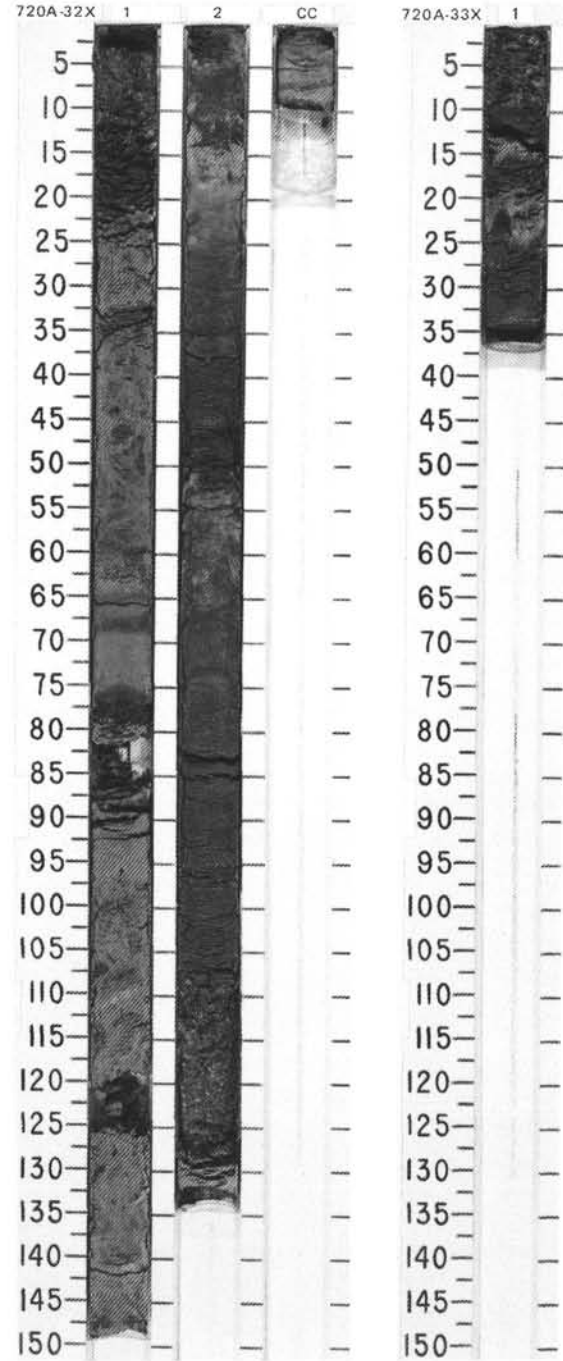


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																				
	FORAMINIFERS	NANOFOSBILLS	RADIOLARIANS	DIATOMS																																													
PLEISTOCENE	*Barren						1				*	<p>SAND and CLAY</p> <p>Entire core is slightly disturbed.</p> <p>Major lithology: SAND and CLAY, very dark gray (5Y 3/1) and dark gray (5Y 4/1), respectively. Interbedded to form upward-fining intervals of 10-20 cm, with sharp-based sand layers and gradational transition to clay layers.</p>																																					
	<i>Pseudoemiliania lacunosa</i>	NN19	*Barren				0.5						CC	**	<p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>4</td> <td>25</td> <td>13</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>5</td> <td>—</td> <td>25</td> </tr> <tr> <td>Silt</td> <td>85</td> <td>5</td> <td>55</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>95</td> <td>20</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>5</td> <td>9</td> <td>5</td> </tr> <tr> <td>20</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Feldspar</td> <td>10</td> <td>—</td> <td>15</td> </tr> <tr> <td>Inorganic calcite</td> <td>20</td> <td>—</td> <td></td> </tr> <tr> <td>Quartz</td> <td>60</td> <td>5</td> <td>40</td> </tr> </table>		4	25	13		D	D	M	Sand	5	—	25	Silt	85	5	55	Clay	10	95	20	Clay	5	9	5	20				Feldspar	10	—	15	Inorganic calcite	20
	4	25	13																																														
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SITE 720 HOLE A CORE 32X CORED INTERVAL 4347.3-4356.9 mbsl; 299.0-308.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS									
PLEISTOCENE	*Barren					φ=50.4	C-1 34 0C-0.30	1	0.5	[Lithology symbols]	*	*	SILT and MUD Section 1, 0-21 cm, and Section 2, 108-128 cm, highly disturbed. Remainder of core is slightly to moderately disturbed. Major lithology: SILT and MUD, dark gray (5Y 4/1) to gray (5Y 5/1), with locally abundant bioturbation and mottling. Also contains five zones, each 1-3 cm thick, of black (5Y 2.5/1) detrital carbonate-bearing silt.	
	*R/M-P <i>P. lacunosa</i>							2	1.0					
								CC						



SITE 720 HOLE A CORE 33X CORED INTERVAL 4356.9-4366.5 mbsl; 308.6-318.2 mbsf

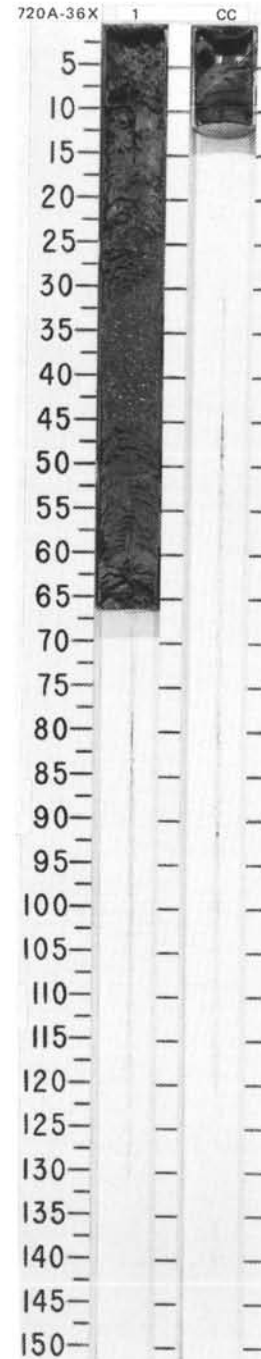
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS									
PLEISTOCENE	Barren*					φ=50.13	C-1 00 0C-0.13	1		[Lithology symbols]			MUD and SILT Entire core is moderately to highly disturbed. Major lithology: Interbedded MUD and SILT, very dark gray (5Y 3/1), with micaceous silt layers at 10-12, 16-18, and 26-34 cm.	
	R/M-P* <i>P. lacunosa</i>													
	Barren*													

CORE 117-720A-34X NO RECOVERY

CORE 117-720A-35X NO RECOVERY

SITE 720 HOLE A CORE 36X CORED INTERVAL 4385.7-4395.3 mbsl; 337.4-347.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																										
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS																																																		
PLEISTOCENE	#R/P N22	#R/G NN19	*	#R/M		φ=2.1 γ=1.88 CC=1.62 OC=0.27		1 0.5			*		<p>MUD and SAND</p> <p>Section 1, 0.9 cm, is highly disturbed. Remainder of the core is slightly disturbed to undisturbed.</p> <p>Major lithology: Interbedded MUD and SILT, very dark gray (5Y 3/1), with sharp-based sand at 22.59 cm, grading up to overlying mud.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>1, 17</td> <td>54</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>—</td> <td>80</td> </tr> <tr> <td>Silt</td> <td>40</td> <td>20</td> </tr> <tr> <td>Clay</td> <td>60</td> <td>—</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Access. minerals</td> <td>Tr</td> <td>3</td> </tr> <tr> <td>Clay</td> <td>60</td> <td>—</td> </tr> <tr> <td>Dolomite</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Feldspar</td> <td>3</td> <td>10</td> </tr> <tr> <td>Volcanic glass</td> <td>2</td> <td>5</td> </tr> <tr> <td>Inorganic calcite</td> <td>10</td> <td>5</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>2</td> </tr> <tr> <td>Nannofossils</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>25</td> <td>75</td> </tr> </table>		1, 17	54	D		D	Sand	—	80	Silt	40	20	Clay	60	—	Access. minerals	Tr	3	Clay	60	—	Dolomite	Tr	—	Feldspar	3	10	Volcanic glass	2	5	Inorganic calcite	10	5	Mica	—	2	Nannofossils	Tr	—	Quartz	25	75
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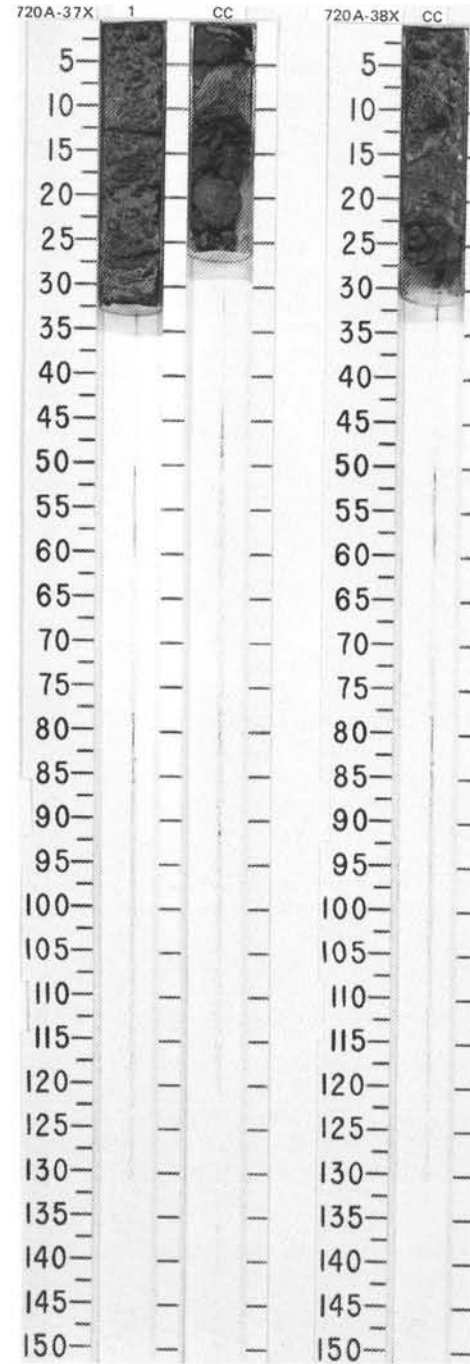


SITE 720 HOLE A CORE 37X CORED INTERVAL 4395.3-4404.9 mbsl; 347.0-356.6 mbsf

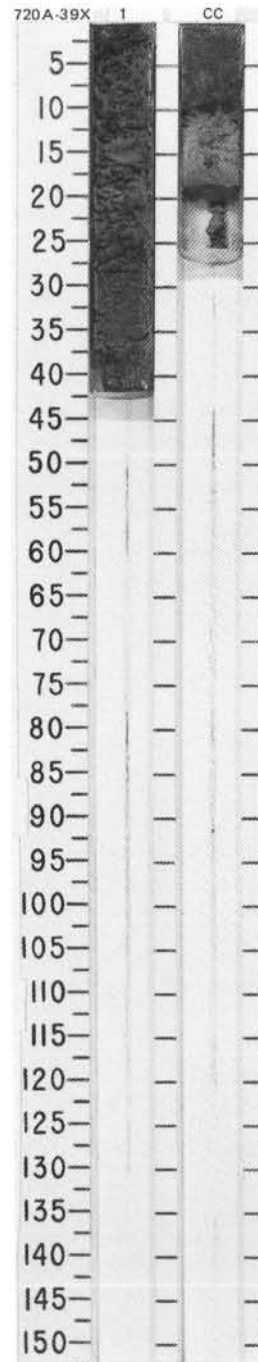
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
PLEISTOCENE	Barren*	NN19	Barren	Barren*	γ=1.94 ● IC-1.62 ● OC-0.28 ●	CC	1 0.5						<p>MUD and SAND</p> <p>Entire core slightly to moderately disturbed.</p> <p>Major lithology: Interbedded MUD and SAND, very dark gray (5Y 3/1), form upward-fining sequences on a scale of 10-20 cm. Sharp-based micaceous sand grades into overlying uniform mud.</p>

SITE 720 HOLE A CORE 38X CORED INTERVAL 4404.9-4414.5 mbsl; 356.6-366.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
PLEISTOCENE	Barren*	NN19	Barren	Barren*		CC					Δ		<p>MUD and SAND</p> <p>Entire core is moderately disturbed.</p> <p>Major lithology: Interbedded MUD and SAND, very dark gray (5Y 3/1), forms one upward-fining sequence, with sharp-based micaceous sand grading into overlying uniform mud.</p>



TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																							
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																	
PLEISTOCENE	N22 R/P*	NN19 A/M*						1	0.5					<p>MUD and SAND</p> <p>Section 1 is slightly deformed. CC is undeformed.</p> <p>Major lithology: Interbedded MUD and SAND, very dark gray (5Y 3/1). Forms one upward-fining sequence, with sharp-based micaceous sand grading into overlying uniform mud.</p> <p>Minor lithology: Calcareous silty clay to clayey foraminiferal ooze, very dark gray (5Y 3/1) to olive gray (5Y 5/2). Overconsolidated zone. CC, 8-18 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>CC, 9 M</th> <th>CC, 15 D</th> </tr> </thead> <tbody> <tr> <td>Sand</td> <td>5</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>25</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>70</td> <td>85</td> </tr> </tbody> </table> <p>COMPOSITION:</p> <table border="1"> <tbody> <tr> <td>Access. minerals</td> <td>3</td> <td>1</td> </tr> <tr> <td>Clay</td> <td>60</td> <td>20</td> </tr> <tr> <td>Feldspar</td> <td>2</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>Tr</td> <td>3</td> </tr> <tr> <td>Volcanic glass</td> <td>3</td> <td>2</td> </tr> <tr> <td>Inorganic calcite</td> <td>10</td> <td>10</td> </tr> <tr> <td>Mica</td> <td>2</td> <td>2</td> </tr> <tr> <td>Nannofossils</td> <td>10</td> <td>60</td> </tr> <tr> <td>Quartz</td> <td>10</td> <td>2</td> </tr> </tbody> </table>		CC, 9 M	CC, 15 D	Sand	5	5	Silt	25	10	Clay	70	85	Access. minerals	3	1	Clay	60	20	Feldspar	2	—	Foraminifers	Tr	3	Volcanic glass	3	2	Inorganic calcite	10	10	Mica	2	2	Nannofossils	10	60	Quartz	10	2
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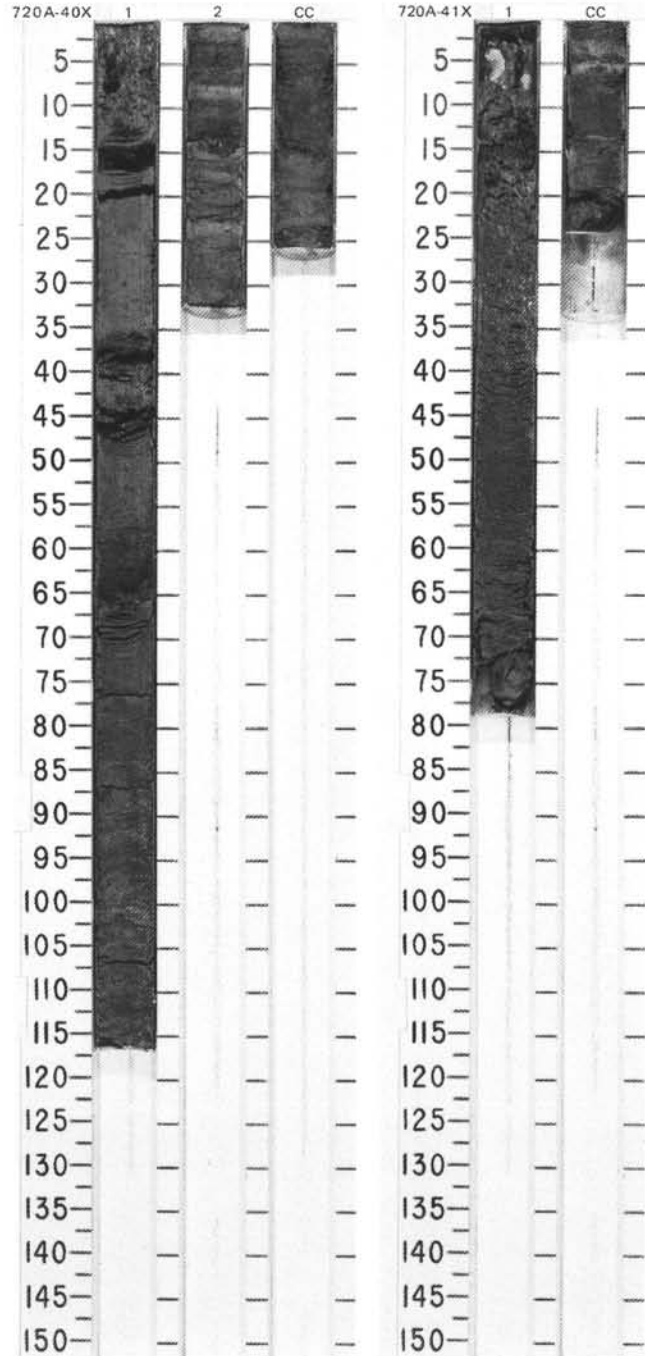


SITE 720 HOLE A CORE 40X CORED INTERVAL 4424.2-4433.5 mbsl; 375.9-385.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																							
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAATOMS																																																
PLEISTOCENE ?	*Barren	*R/P			$\phi=+6.3$ $\gamma=2.03$	IC-1.33 OC-0.40	1						<p>MUD and SAND</p> <p>Section 1, 0-10 cm, is highly disturbed. Remainder of core is undisturbed.</p> <p>Major lithology: Interbedded MUD and SAND, very dark gray (5Y 3/1), form upward-fining sequences with sharp-based micaceous sand grading into overlying uniform mud.</p> <p>Minor lithology: Sandy mud to muddy sand, black (10YR 2/1). Section 1, 58-64 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 29</td> <td>1, 102</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>—</td> <td>25</td> </tr> <tr> <td>Silt</td> <td>20</td> <td>50</td> </tr> <tr> <td>Clay</td> <td>80</td> <td>25</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. minerals</td> <td>3</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>80</td> <td>25</td> </tr> <tr> <td>Feldspar</td> <td>2</td> <td>5</td> </tr> <tr> <td>Volcanic glass</td> <td>Tr</td> <td>10</td> </tr> <tr> <td>Inorganic calcite</td> <td>10</td> <td>10</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>45</td> </tr> </table>		1, 29	1, 102	D		D	Sand	—	25	Silt	20	50	Clay	80	25	Access. minerals	3	5	Clay	80	25	Feldspar	2	5	Volcanic glass	Tr	10	Inorganic calcite	10	10	Mica	Tr	Tr	Nannofossils	—	Tr	Quartz	5	45
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Quartz	5	45																																																		
	No age diagnostic taxa	*R/P					2																																													
	Barren						CC																																													

SITE 720 HOLE A CORE 41X CORED INTERVAL 4433.5-4443.2 mbsl; 385.2-394.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAATOMS									
PLEISTOCENE ?	*Barren	*R/P				IC-1.15 OC-0.17	1						<p>SILTY SAND and MUD</p> <p>Section 1, 0-34 cm, is highly disturbed. Remainder of the core is undisturbed.</p> <p>Major lithologies:</p> <p>a. SILTY SAND, dark olive gray (5Y 3/2), structureless. Section 1.</p> <p>b. MUD, very dark gray (5Y 3/1), uniform. CC.</p>
	No age diagnostic taxa	*R/P					CC						
	Barren												



SITE 720 HOLE A CORE 42X CORED INTERVAL 4443.2-4452.9 mbsf; 394.9-404.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER						GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS									
	NANNOFOSSILS									
	RADIOLARIANS									
PLEISTOCENE ?	Barren *		* R/M*	Diatoms		MUD and SANDY SILT	△	*	Entire core is moderately to highly disturbed. Major lithology: Interbedded MUD and SANDY SILT, very dark gray (5Y 3/1), form one upward-fining sequence 24 cm thick, with sharp-based micaceous sandy silt grading into overlying uniform mud.	
	<i>Pseudoemiliania lacunosa</i>			F/M*						
	Barren									
CC								SMEAR SLIDE SUMMARY (%):		
								CC, 4		
								D		
								TEXTURE:		
								Silt 40		
								Clay 60		
								COMPOSITION:		
								Access. minerals 3		
								Clay 60		
								Feldspar 2		
								Inorganic calcite 15		
								Mica T		
								Quartz 20		

SITE 720 HOLE A CORE 43X CORED INTERVAL 4452.9-4462.6 mbsf; 404.6-414.3 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER						GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS									
	NANNOFOSSILS									
	RADIOLARIANS									
PLEISTOCENE ?	*Barren		* R/P	Diatoms		MUD and SANDY SILT	△	*	Entire core is moderately to highly disturbed. Major lithology: Interbedded MUD, dark gray (5Y 4/1) and homogeneous, and sandy silt, olive gray (5Y 4/2).	
	No age diagnostic taxa			F/M*						
	Barren									
CC								VOID		
								0.5		
								1		
								1.0		
								IC=1.88 OC=0.35		

