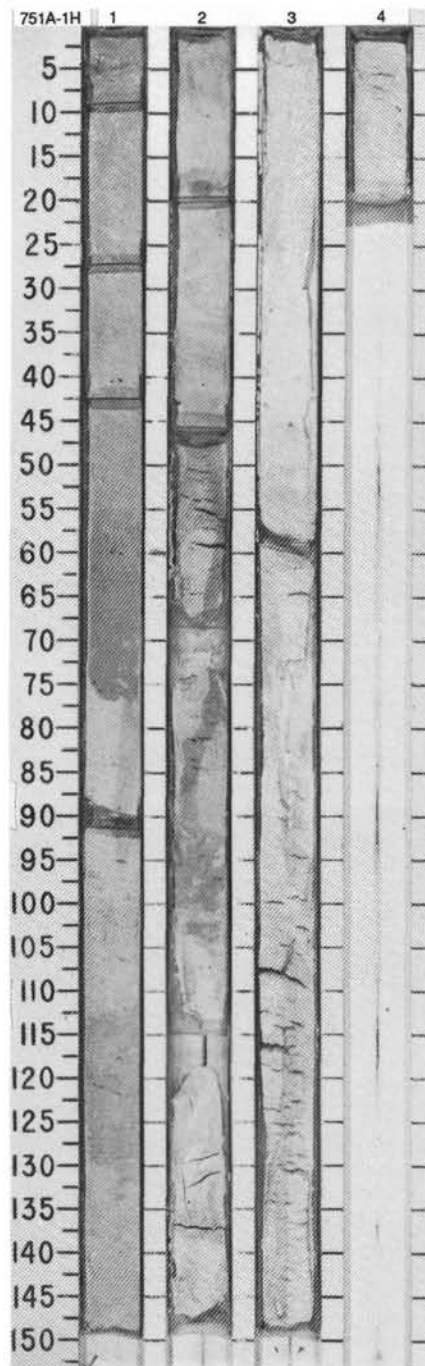
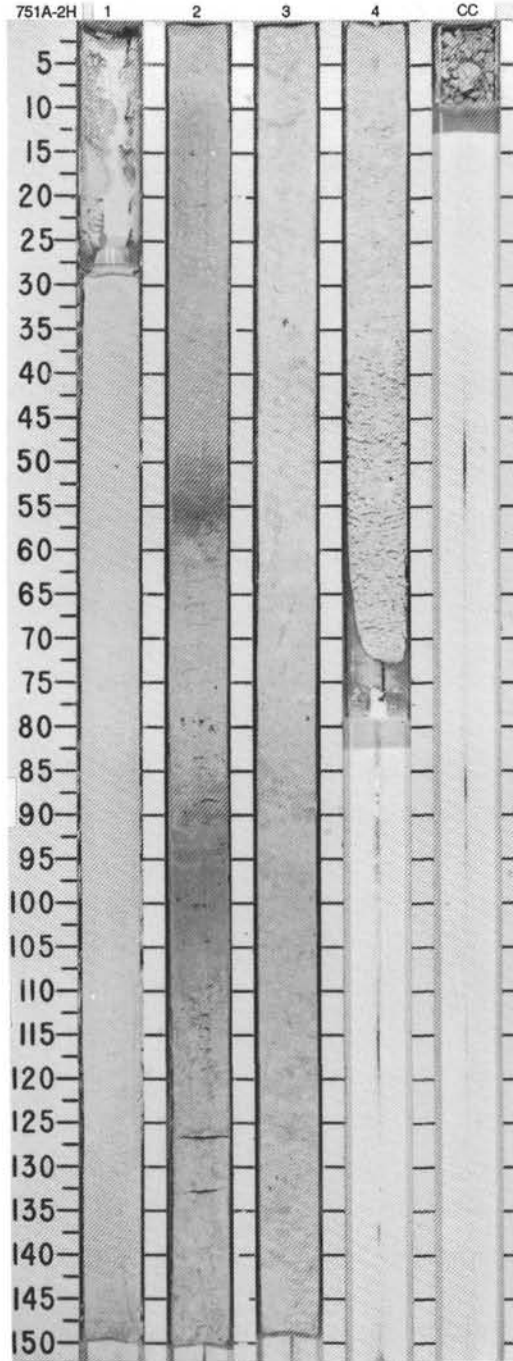


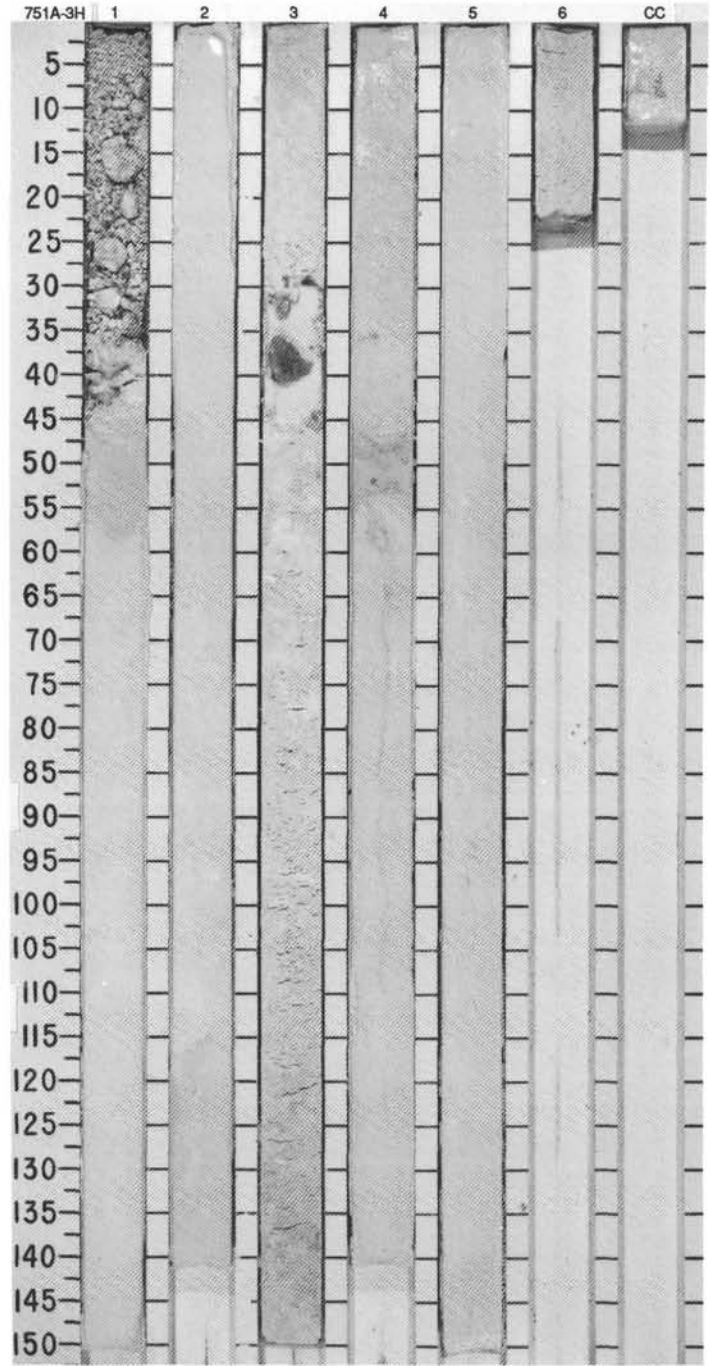
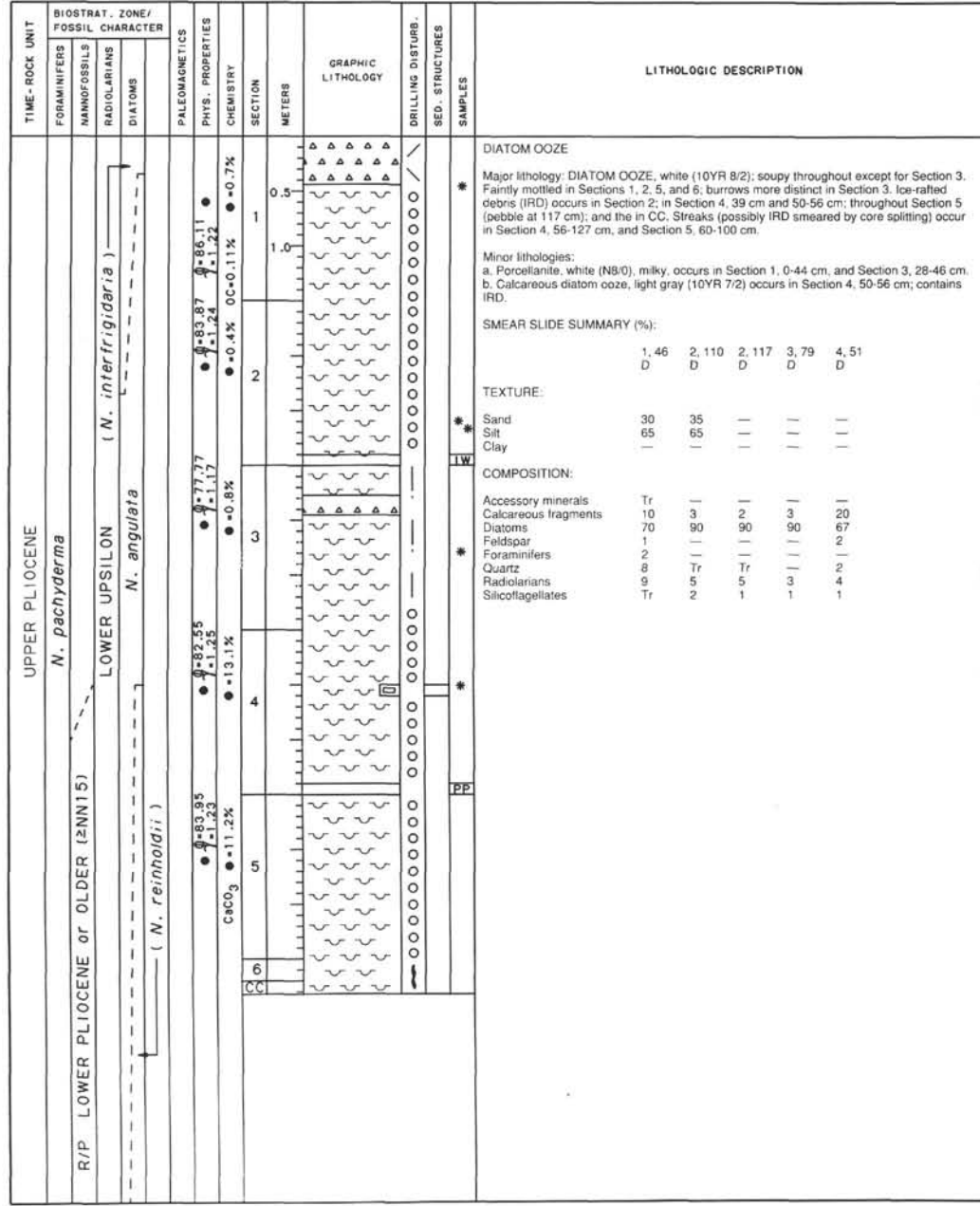
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																																
	FORAMINIFERS	NAUPOSSILS	RADIOLARIANS	DIATOMS																																																																																																																										
LOWER PLEISTOCENE	<i>N. pachyderma</i>				● 78.67	● 76.38	● 70.98	1	0.5					DIATOM OOZE, FORAMINIFER DIATOM OOZE, AND CALCAREOUS DIATOM OOZE Major lithology: DIATOM OOZE, FORAMINIFER DIATOM OOZE, and CALCAREOUS DIATOM OOZE. Various shades of brown and tan are enriched in calcareous fragments (foraminifer debris): light yellowish brown (2.5Y 6/4) in Section 1, 52-77 cm; very pale brown (10YR 8/3) in Section 1, 77-112 cm, and Section 2, 0-33 cm; light gray (2.5Y 7/2) in Section 1, 112-130 cm; pale yellow (5Y 8/3) in Section 1, 130-150 cm; and brownish yellow (10YR 6/6) in Section 2, 91-104 cm. Pink and cream colors are enriched in foraminifers: pink (5YR 8/4) in Section 1, 0-52 cm; white (10Y 8/2) in Section 2, 104-115 cm; Section 3, 0-150 cm; and Section 4, 0-14 cm. Minor lithology: Calcareous diatom ooze with radiolarians, pale yellow (2.5Y 7/4), occurs in Section 2, 33-57 cm. N.B.: no CC. SMEAR SLIDE SUMMARY (%): <table border="1"> <tr> <td></td> <td>1, 2</td> <td>1, 39</td> <td>1, 58</td> <td>1, 82</td> <td>1, 118</td> <td>1, 139</td> <td>2, 9</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>M</td> <td>M</td> <td>D</td> <td>D</td> <td>M</td> </tr> </table> TEXTURE: <table border="1"> <tr> <td>Sand</td> <td>17</td> <td>25</td> <td>12</td> <td>5</td> <td>15</td> <td>20</td> <td>10</td> </tr> <tr> <td>Silt</td> <td>80</td> <td>72</td> <td>86</td> <td>92</td> <td>82</td> <td>72</td> <td>86</td> </tr> <tr> <td>Clay</td> <td>3</td> <td>3</td> <td>2</td> <td>3</td> <td>3</td> <td>3</td> <td>4</td> </tr> </table> COMPOSITION: <table border="1"> <tr> <td>Accessory minerals</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Calcareous fragments</td> <td>—</td> <td>—</td> <td>25</td> <td>15</td> <td>25</td> <td>15</td> <td>9</td> </tr> <tr> <td>Diatoms</td> <td>86</td> <td>82</td> <td>69</td> <td>83</td> <td>69</td> <td>80</td> <td>82</td> </tr> <tr> <td>Foraminifers</td> <td>7</td> <td>15</td> <td>4</td> <td>2</td> <td>3</td> <td>Tr</td> <td>6</td> </tr> <tr> <td>Glass</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>—</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Radiolarians</td> <td>4</td> <td>2</td> <td>2</td> <td>Tr</td> <td>3</td> <td>5</td> <td>3</td> </tr> <tr> <td>Silicoflagellates</td> <td>3</td> <td>1</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Spicules</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </table>		1, 2	1, 39	1, 58	1, 82	1, 118	1, 139	2, 9		D	D	M	M	D	D	M	Sand	17	25	12	5	15	20	10	Silt	80	72	86	92	82	72	86	Clay	3	3	2	3	3	3	4	Accessory minerals	—	—	—	—	—	—	Tr	Calcareous fragments	—	—	25	15	25	15	9	Diatoms	86	82	69	83	69	80	82	Foraminifers	7	15	4	2	3	Tr	6	Glass	Tr	—	—	—	—	—	—	Quartz	—	—	Tr	Tr	Tr	Tr	Tr	Radiolarians	4	2	2	Tr	3	5	3	Silicoflagellates	3	1	Tr	Tr	Tr	Tr	Tr	Spicules	Tr	—	—	—	—	—	—
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UPPER PLEISTOCENE / LOWER PLEISTOCENE	<i>Cosinodiscus elliptopora / Actinocyclus ingens</i> <i>(Thalassiosira lentiginosa)</i>				● 71.49	● 71.30	● 71.3%	2	1.0				SMEAR SLIDE SUMMARY (%): <table border="1"> <tr> <td></td> <td>2, 18</td> <td>2, 98</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> </tr> </table> TEXTURE: <table border="1"> <tr> <td>Sand</td> <td>30</td> <td>2</td> </tr> <tr> <td>Silt</td> <td>67</td> <td>95</td> </tr> <tr> <td>Clay</td> <td>3</td> <td>2</td> </tr> </table> COMPOSITION: <table border="1"> <tr> <td>Accessory minerals</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Calcareous fragments</td> <td>25</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>1</td> </tr> <tr> <td>Diatoms</td> <td>65</td> <td>75</td> </tr> <tr> <td>Feldspar</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td>3</td> <td>3</td> </tr> <tr> <td>Glass</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>2</td> <td>1</td> </tr> <tr> <td>Radiolarians</td> <td>4</td> <td>2</td> </tr> <tr> <td>Silicoflagellates</td> <td>Tr</td> <td>2</td> </tr> <tr> <td>Spicules</td> <td>1</td> <td>1</td> </tr> </table>		2, 18	2, 98		D	D	Sand	30	2	Silt	67	95	Clay	3	2	Accessory minerals	Tr	Tr	Calcareous fragments	25	10	Clay	—	1	Diatoms	65	75	Feldspar	—	Tr	Foraminifers	3	3	Glass	Tr	—	Quartz	2	1	Radiolarians	4	2	Silicoflagellates	Tr	2	Spicules	1	1																																																																	
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SITE 751 HOLE A CORE 2H CORED INTERVAL 4.7-14.2 mbsf

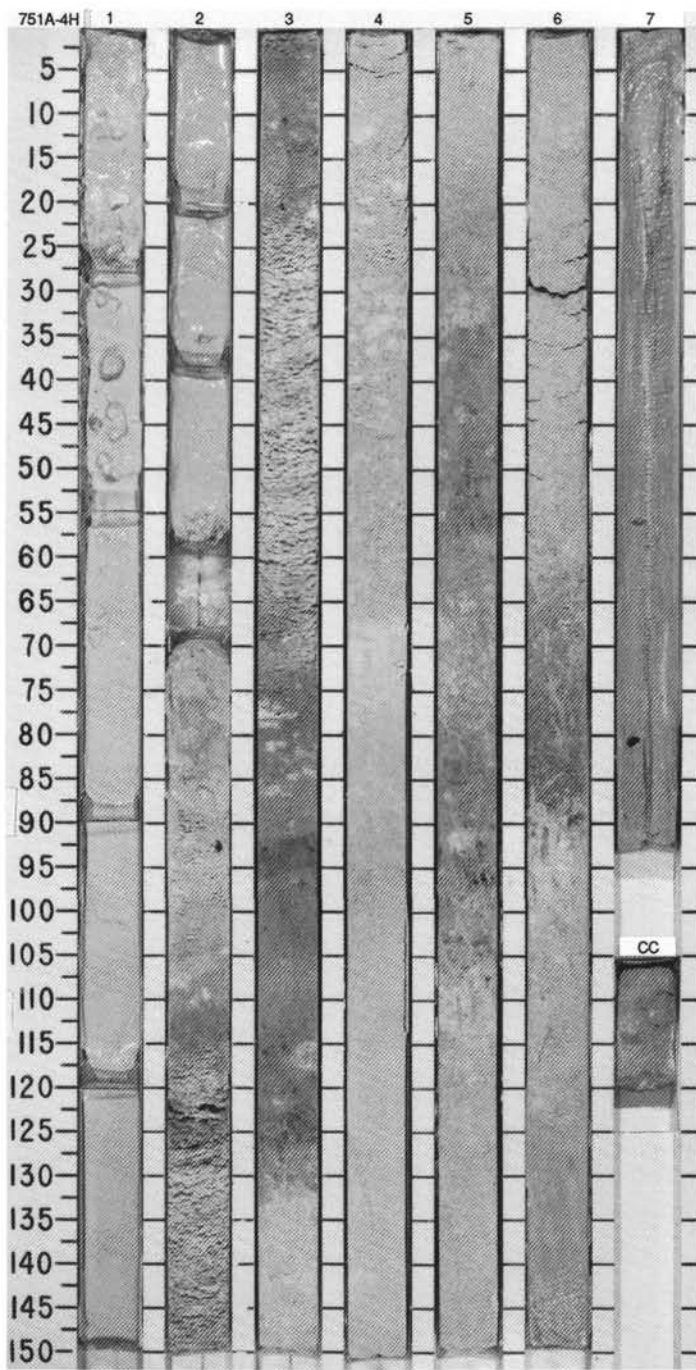
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																											
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UPPER PLEISTOCENE	<i>N. pachyderma</i>							0.5 1.0	VOID			FORAMINIFER DIATOM OOZE AND DIATOM OOZE Major lithologies: a. FORAMINIFER DIATOM OOZE, cream white (10YR 8/1) to light gray (10YR 7/2), occurs in Sections 1 and 2. b. DIATOM OOZE, white (10YR 8/1), occurs in Sections 3 and 4. Bioturbation is moderate, with mottling throughout. Vitric ash occurs in Section 2, 49-59. Ice-rafted debris is scattered throughout Section 1, 28-150 cm; Section 2, 0-150 cm; Section 3, 0-150 cm; and slightly concentrated in Section 2, 90-107 cm. Minor lithology: A breccia of very low density porcellanite occurs in the CC.																																																																												
	UPPER PLEISTOCENE or PLEISTOCENE R/P												● 82.75 ● 71.30 ● 31.2% OC=0.00%	SECTION 1						SMEAR SLIDE SUMMARY (%):																																																																				
	MIDDLE UPSILON																				● 76.24 ● 71.32 ● 35.2%	SECTION 2						<table border="1"> <tr> <td></td> <td>1, 50</td> <td>2, 20</td> <td>2, 41</td> <td>2, 56</td> <td>2, 100</td> <td>4, 50</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>M</td> <td>M</td> <td>D</td> </tr> </table>		1, 50	2, 20	2, 41	2, 56	2, 100	4, 50		D	D	D	M	M	D																																														
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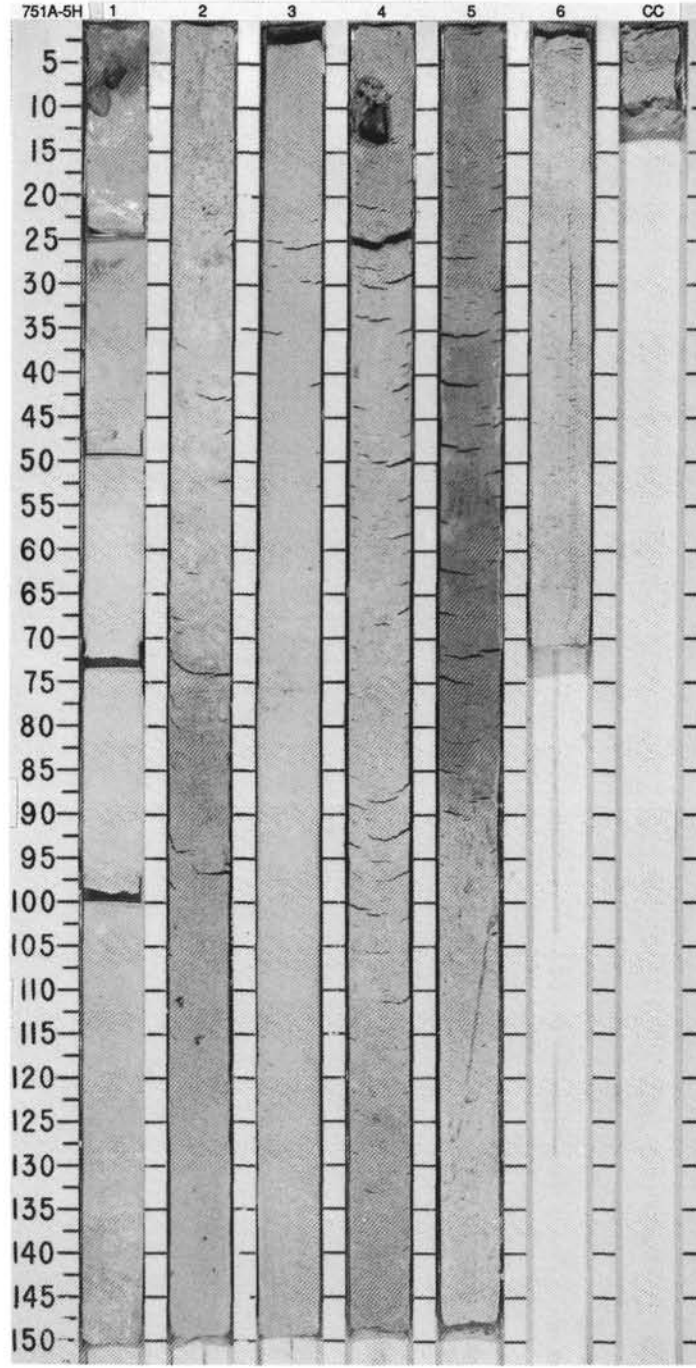


SITE 751 HOLE A CORE 4H CORED INTERVAL 23.7-33.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION												
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																					
LOWER PLIOCENE	<i>(N. angularata)</i>							0.5					DIATOM OOZE Major lithology: DIATOM OOZE, white (10YR 8/1) to very pale brown (10YR 7/3). Soupy in Sections 1 and 2, 0-65 cm; flow-in in Section 7. Minor bioturbation; mottles in undisturbed sections. Diatom ooze is fluffy, monospecific in Section 2, 115-150 cm, and Section 3, 0-82 cm. Dropstones occur in Section 2, 92 cm (unidentified, 1-cm diameter) and Section 7, 80 cm (sandstone, 2-cm diameter). Vitric ash occurs in Section 6, 85-90 cm. Minor lithology: Porcellanite fragments occur in Section 1, 0-70 cm, and Section 2, 0-5 cm. These are irregularly shaped, with internally preserved burrow like features. SMEAR SLIDE SUMMARY (%): <table border="1" style="margin-left: 20px;"> <tr> <td></td> <td>2, 126</td> <td>3, 80</td> <td>5, 96</td> <td>5, 132</td> <td>6, 84</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>M</td> </tr> </table> TEXTURE: Sand --- Silt --- 40 60 COMPOSITION: Accessory minerals --- Calcareous fragments --- Diatoms 85 95 80 80 75 Feldspar --- 1 1 1 5 Glass --- Nannofossils --- Quartz --- Radiolarians --- 2 3 9 2 Silicoflagellates 5 1 5 4 1		2, 126	3, 80	5, 96	5, 132	6, 84	D		D	D	D	M
	2, 126	3, 80	5, 96	5, 132	6, 84																				
D		D	D	D	M																				
UPPER MIDDLE MIOCENE to LOWER PLIOCENE (2NN15 - <UPPER NN7)	<i>(N. reinholdii)</i>							1.0																	
UPPER TAU	<i>(N. reinholdii)</i>							2																	
	<i>(N. reinholdii)</i>							3																	
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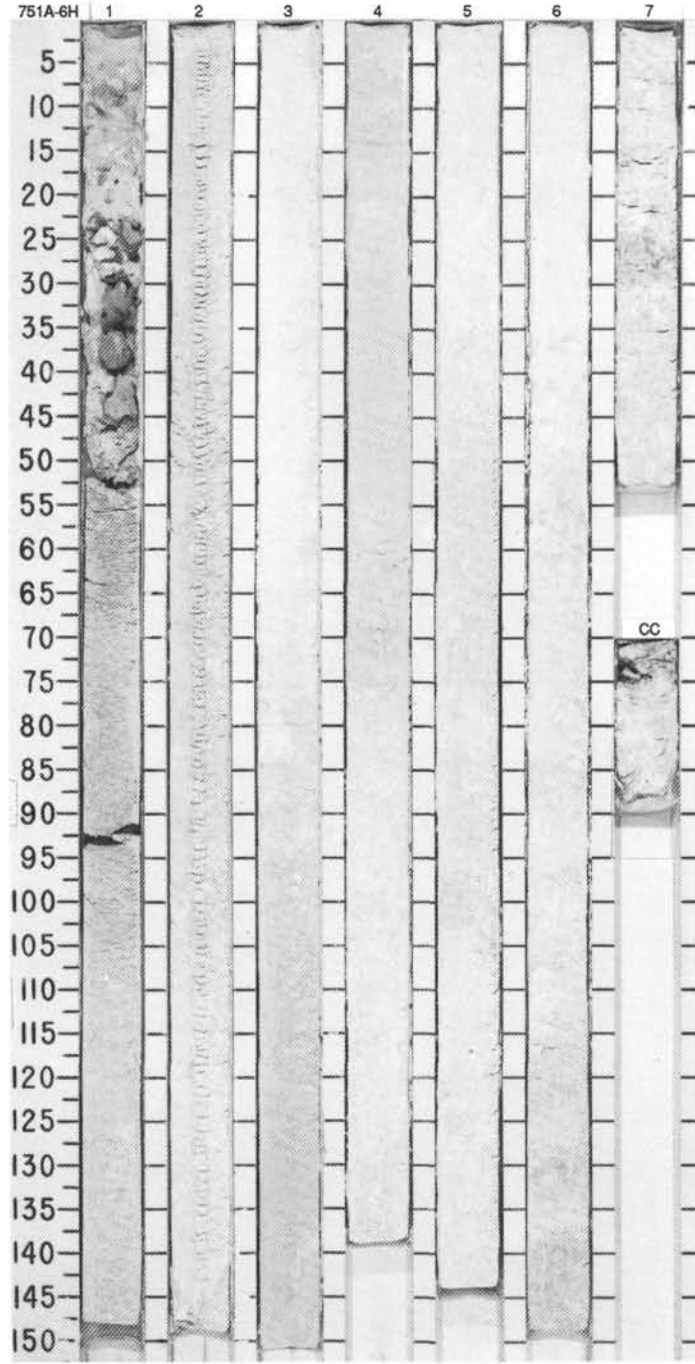


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																														
UPPER MIOCENE to LOWER PLIOCENE	<i>N. pachyderma</i>							1	0.5					<p>DIATOM OOZE</p> <p>Major lithology: DIATOM OOZE, very pale brown (10YR 8/3 to 8/4) to white, with gradational contacts between meter-scale layers. In some intervals pure diatoms occur, with long, needlelike diatom frustules. Gray porcellanite with rinds occurs as cavings in Section 1, 0-10 cm.</p> <p>Minor lithologies:</p> <p>a. Nannofossil diatom ooze, white (10YR 8/1), uniform, rare dark burrows; occurs from Section 5, 90 cm, to base of core.</p> <p>b. Ice-rafted debris, fine-grained, sand-sized, is sprinkled through several intervals as dark specks in Section 1, 80-150 cm; rarely in Section 2, 72-150 cm; small rock fragments (gneiss and red granite) in Section 3. A dropstone of quartz-plagioclase-amphibole gneiss occurs in Section 1, 59-61 cm; a 3-cm piece of fine-grained, red quartzitic sandstone occurs in Section 4, 9-14 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>3, 60</td> <td>5, 60</td> <td>5, 103</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <p>Silt 100 100 100</p> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Diatoms</td> <td>88</td> <td>93</td> <td>56</td> </tr> <tr> <td>Feldspar</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>—</td> <td>—</td> <td>2</td> </tr> <tr> <td>Nannofossils</td> <td>—</td> <td>—</td> <td>40</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Radiolarians</td> <td>2</td> <td>6</td> <td>2</td> </tr> <tr> <td>Silicoflagellates</td> <td>10</td> <td>—</td> <td>—</td> </tr> </table>		3, 60	5, 60	5, 103	D		D	M	Diatoms	88	93	56	Feldspar	Tr	—	—	Foraminifers	—	—	2	Nannofossils	—	—	40	Quartz	Tr	1	Tr	Radiolarians	2	6	2	Silicoflagellates	10	—	—
	3, 60	5, 60	5, 103																																															
D		D	M																																															
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Foraminifers	—	—	2																																															
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Quartz	Tr	1	Tr																																															
Radiolarians	2	6	2																																															
Silicoflagellates	10	—	—																																															
A/G	UPPER MIDDLE MIOCENE to LOWER PLIOCENE (>NN15, <UPPER NN7)							2	1.0																																									
	LOWER TAU							3																																										
	<i>D. hustedtii</i>							4																																										
								5																																										
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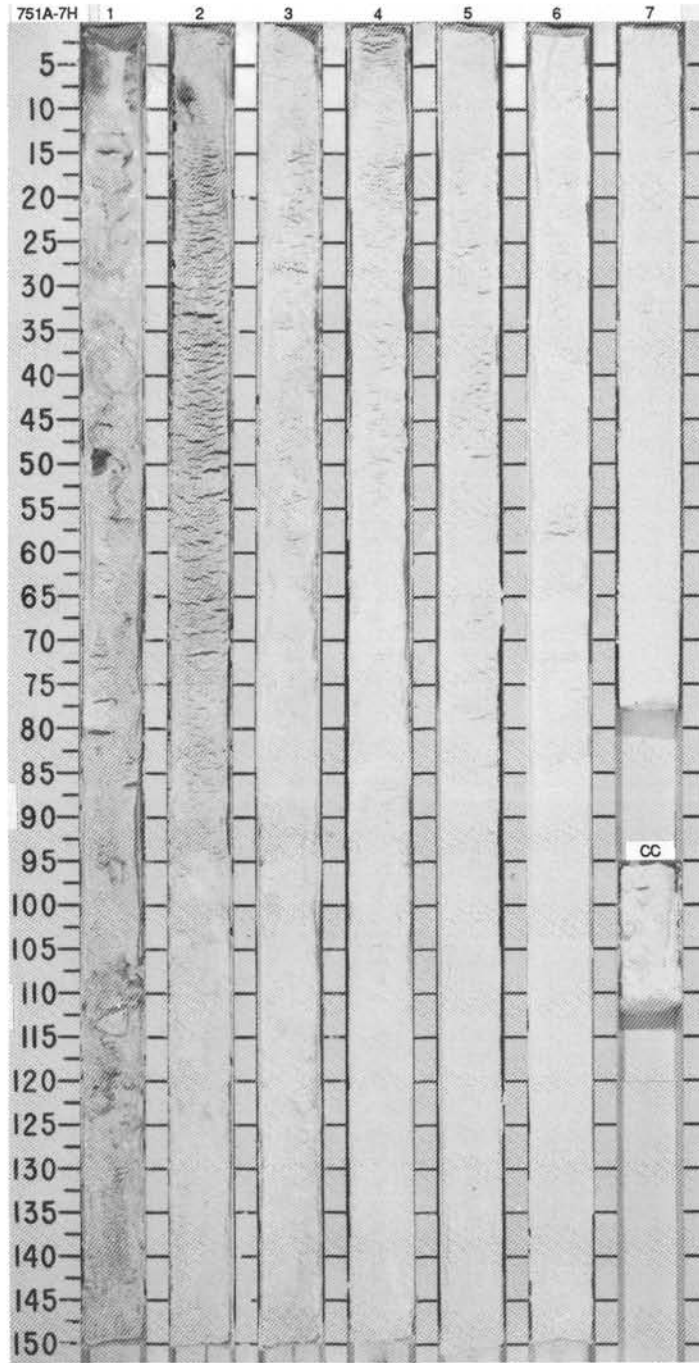


SITE 751 HOLE A CORE 6H CORED INTERVAL 42.7-52.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SEC. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS									
	DIATOMS											
UPPER MIOCENE	<i>G. woodi</i>											
A/G	UPPER MIDDLE MIOCENE to LOWER PLIOCENE (>NNN15, <UPPER NN7) upper <i>C. spongothorax</i> <i>Denticulopsis hustedtii</i>			O	● 0-66.45 ● 1-70.93 ● 2-75.76 ● 3-80.1% ● 4-85.99 ● 5-87.84 ● 6-89.45 ● 7-91.32 ● 8-95.46 ● 9-97.07	● 68.2% ● 66.1% ● 74.7% ● 71.2% ● 80.1% ● 87.1%						DIATOM NANNOFOSSIL OOZE Major lithology: DIATOM NANNOFOSSIL OOZE, gradational color changes from white (10YR 8/1) to light gray (10YR 7/2) and minor grayish brown (10YR 5/2); burrow mottles are darker. * Minor lithology: Porcellanite, white, light brown, gray and vitreous. Occurs in highly disturbed ooze; has highly irregular concretionary surfaces with fingertike protrusions; zoned. SMEAR SLIDE SUMMARY (%): Silt: 100 — COMPOSITION: Diatoms: 35 37 Nannofossils: 63 60 Radiolarians: 2 3

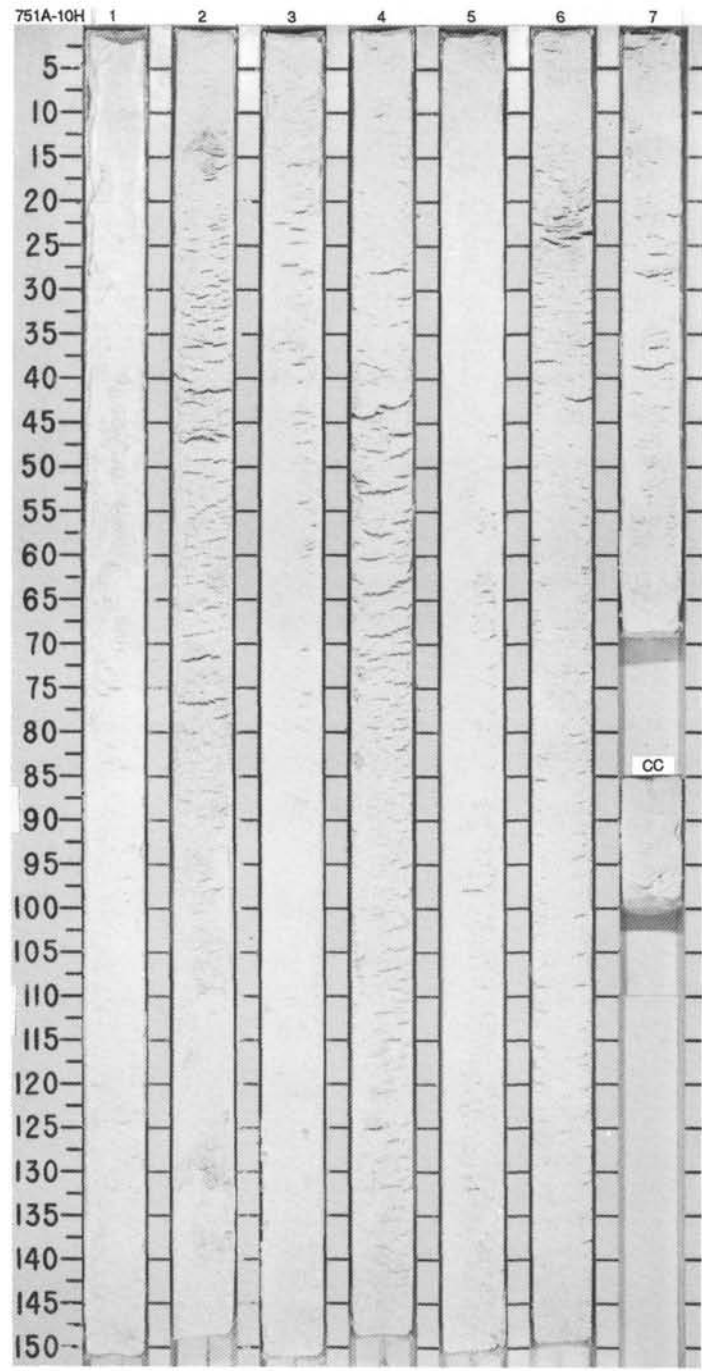


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS																														
	DIATOMS																																
	DIATOMS																																
UPPER MIOCENE	<i>G. woodi</i> - <i>G. scitula</i>			● $\delta = 68.19$			1	0.5					<p>DIATOM NANNOFOSSIL OOZE</p> <p>Major lithology: DIATOM NANNOFOSSIL OOZE, white (10YR 8/2 to N8/0) to cream white (10YR 8/2) in Sections 1 and 2; pure white (N8/0) in Section 3 through CC. Variably soft to firm; homogeneous. Drilling disturbance high in Section 1, and in Section 2, 50 cm, through CC. Faint mottling occurs in Section 2, 80-150 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 121</td> <td>4, 120</td> <td>7, 64</td> </tr> <tr> <td>M</td> <td></td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Diatoms</td> <td>35</td> <td>25</td> <td>40</td> </tr> <tr> <td>Nannofossils</td> <td>65</td> <td>75</td> <td>60</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> </table>		1, 121	4, 120	7, 64	M		D	D	Diatoms	35	25	40	Nannofossils	65	75	60	Radiolarians	Tr	Tr	Tr
	1, 121	4, 120	7, 64																														
M		D	D																														
Diatoms	35	25	40																														
Nannofossils	65	75	60																														
Radiolarians	Tr	Tr	Tr																														
UPPER MIDDLE MIOCENE to LOWER PLIOCENE (>NN15, <NN7)	upper <i>C. spongothorax</i>			● $\delta = 62.31$			2	1.0																									
	<i>Denticulopsis hustedtii</i>			● $\delta = 67.10$			3																										
				● $\delta = 62.31$			4																										
				● $\delta = 67.10$			5																										
				● $\delta = 62.31$			6																										
A/G				● $\delta = 67.10$			7																										
				● $\delta = 62.31$			CC																										

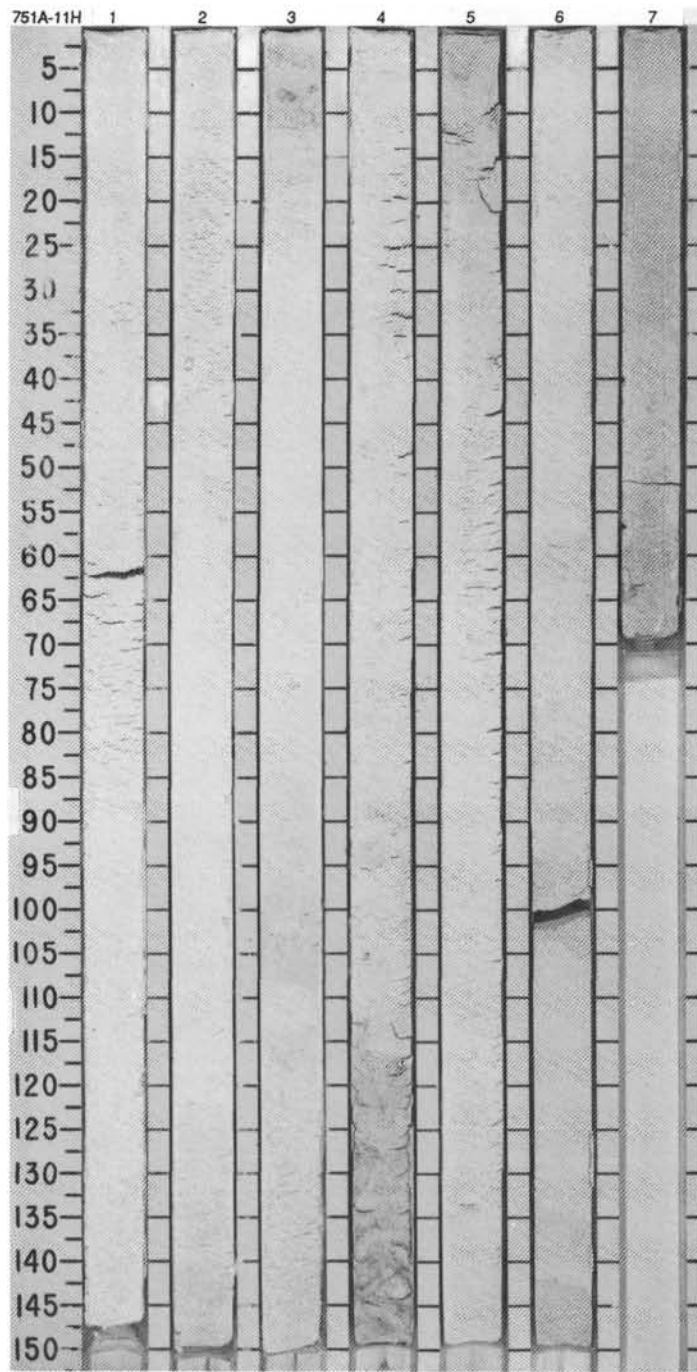


SITE 751 HOLE A CORE 10H CORED INTERVAL 80.7-90.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																													
	FORAMINIFERS	NANNOFOSSILS											RADIOLARIANS	DIATOMS																																																																											
MIDDLE MIOCENE	<i>G. woodi</i> - <i>G. falconensis</i>											<p>NANNOFOSSIL OOZE WITH DIATOMS</p> <p>Major lithology: NANNOFOSSIL OOZE with DIATOMS, white (whiter than N8), with tan and purple mottles that are enriched in diatoms.</p> <p>Minor lithology: Diatom nannofossil ooze, faint greenish gray (5GY 7/1), contains laminae, occurs in Section 6, 123-145 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2, 12</td> <td>2, 74</td> <td>3, 50</td> <td>5, 49</td> <td>6, 21</td> <td>6, 126</td> </tr> <tr> <td></td> <td>M</td> <td>M</td> <td>D</td> <td>D</td> <td>M</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>1</td> <td>3</td> <td>3</td> <td>1</td> <td>4</td> <td>1</td> </tr> <tr> <td>Silt</td> <td>84</td> <td>87</td> <td>90</td> <td>90</td> <td>86</td> <td>90</td> </tr> <tr> <td>Clay</td> <td>15</td> <td>10</td> <td>7</td> <td>9</td> <td>10</td> <td>9</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Diatoms</td> <td>35</td> <td>25</td> <td>10</td> <td>22</td> <td>28</td> <td>30</td> </tr> <tr> <td>Foraminifers</td> <td>Tr</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Glass</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>65</td> <td>75</td> <td>89</td> <td>77</td> <td>70</td> <td>69</td> </tr> <tr> <td>Radiolarians</td> <td>—</td> <td>—</td> <td>1</td> <td>Tr</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Silicoflagellates</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>1</td> <td>2</td> <td>1</td> </tr> </table>		2, 12	2, 74	3, 50	5, 49	6, 21	6, 126		M	M	D	D	M	M	Sand	1	3	3	1	4	1	Silt	84	87	90	90	86	90	Clay	15	10	7	9	10	9	Diatoms	35	25	10	22	28	30	Foraminifers	Tr	—	Tr	—	—	—	Glass	—	Tr	—	—	—	—	Nannofossils	65	75	89	77	70	69	Radiolarians	—	—	1	Tr	—	Tr	Silicoflagellates	Tr	Tr	Tr	1	2	1
	2, 12	2, 74	3, 50	5, 49	6, 21	6, 126																																																																																			
	M	M	D	D	M	M																																																																																			
Sand	1	3	3	1	4	1																																																																																			
Silt	84	87	90	90	86	90																																																																																			
Clay	15	10	7	9	10	9																																																																																			
Diatoms	35	25	10	22	28	30																																																																																			
Foraminifers	Tr	—	Tr	—	—	—																																																																																			
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Nannofossils	65	75	89	77	70	69																																																																																			
Radiolarians	—	—	1	Tr	—	Tr																																																																																			
Silicoflagellates	Tr	Tr	Tr	1	2	1																																																																																			
UPPER MIDDLE MIOCENE to LOWER PLIOCENE (>NN15, <NN7 UPPER)	lower <i>C. spongothorax</i>																																																																																								
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			● 66.35 / 1.61	● 63.85 / 1.65	● 79.2%	1	0.5																																																																																		
			● 68.23 / 1.61	● 66.23 / 1.61	● 79.2%	2	1.0																																																																																		
			● 67.55 / 1.57	● 61.36 / 1.68	● 84.6%	3																																																																																			
			● 66.35 / 1.53	● 66.35 / 1.53	● 72.7% OC-0.21%	4																																																																																			
			● 67.55 / 1.57	● 67.55 / 1.57	● 80.1%	5																																																																																			
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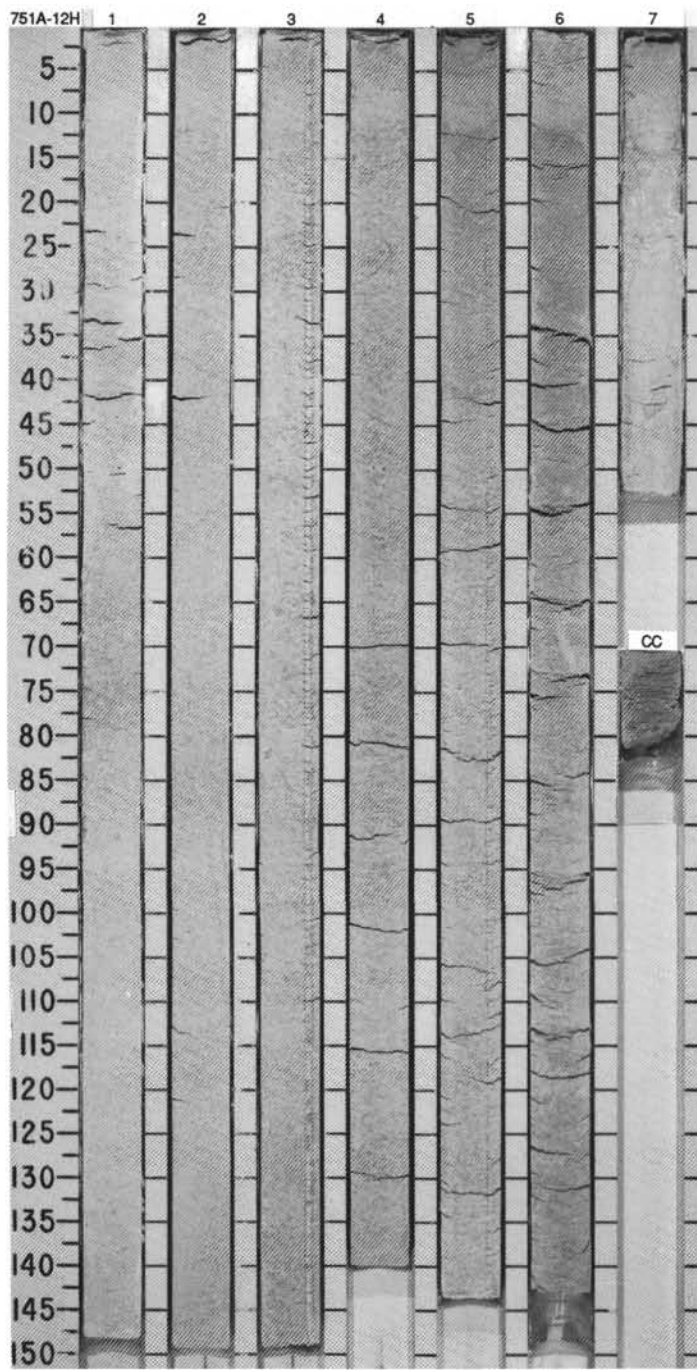


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																				
	FORAMINIFERS	NANNOFOSSILS																																																																																													
	RADIOLARIANS	DIATOMS																																																																																													
MIDDLE MIOCENE	<i>N. nympha</i> (N15 - N16)										<p>NANNOFOSSIL OOZE WITH DIATOMS AND DIATOM NANNOFOSSIL OOZE</p> <p>Major lithology: NANNOFOSSIL OOZE with DIATOMS, white (whiter than N8), in Sections 1 and 2; overlying diatom nannofossil ooze, white (whiter than N8) to base of the core.</p> <p>Faint green laminae, enriched with diatoms, occur in Sections 3 and 4. Purple mottles (Section 4, 136-146) and bands (Section 3, 0-10 cm and 114-123 cm; Section 6, 57-105 cm and 133-150 cm; and Section 7, 0-10 cm) enriched in diatoms and trace pyrite, also occur.</p> <p>Tan mottles (Section 4, 91-116 cm and 136-150 cm, and Section 5, 0-11 cm) are enriched in foraminifers (3%-6%) and contain a trace of pyrite.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2, 60</td> <td>2, 118</td> <td>4, 124</td> <td>4, 146</td> <td>6, 27</td> <td>6, 98</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>M</td> <td>M</td> <td>D</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>1</td> <td>4</td> <td>5</td> <td>15</td> <td>10</td> <td>13</td> </tr> <tr> <td>Silt</td> <td>89</td> <td>86</td> <td>85</td> <td>75</td> <td>84</td> <td>79</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>10</td> <td>10</td> <td>10</td> <td>6</td> <td>8</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Diatoms</td> <td>10</td> <td>15</td> <td>30</td> <td>37</td> <td>35</td> <td>30</td> </tr> <tr> <td>Foraminifers</td> <td>—</td> <td>1</td> <td>3</td> <td>6</td> <td>5</td> <td>7</td> </tr> <tr> <td>Nannofossils</td> <td>88</td> <td>82</td> <td>65</td> <td>54</td> <td>59</td> <td>62</td> </tr> <tr> <td>Pyrite</td> <td>Tr</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Radiolarians</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td>Silicoflagellates</td> <td>1</td> <td>1</td> <td>1</td> <td>2</td> <td>Tr</td> <td>Tr</td> </tr> </table>		2, 60	2, 118	4, 124	4, 146	6, 27	6, 98		D	D	M	M	D	M	Sand	1	4	5	15	10	13	Silt	89	86	85	75	84	79	Clay	10	10	10	10	6	8	Diatoms	10	15	30	37	35	30	Foraminifers	—	1	3	6	5	7	Nannofossils	88	82	65	54	59	62	Pyrite	Tr	—	—	Tr	—	—	Quartz	Tr	—	—	—	—	—	Radiolarians	1	1	1	1	1	1	Silicoflagellates	1	1	1	2	Tr	Tr
	2, 60	2, 118	4, 124	4, 146	6, 27	6, 98																																																																																									
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			● 67.40 / 51.00	● 62.78 / 1.65	● 60.1%	1	0.5																																																																																								
			● 63.48 / 21.84	● 62.78 / 1.65	● 66.0%	2	1.0																																																																																								
			● 64.34 / 1.81	● 63.48 / 21.84	● 87.2% OC=0.09%	3																																																																																									
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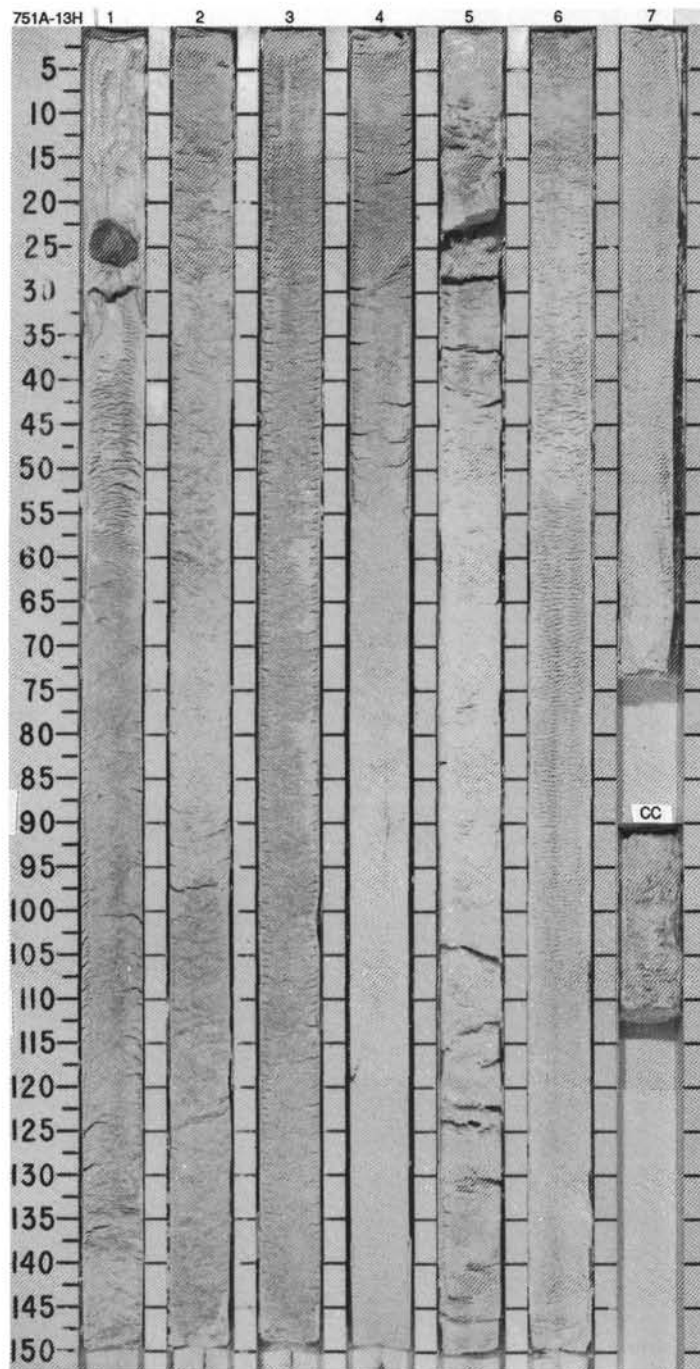


SITE 751 HOLE A CORE 12H CORED INTERVAL 99.7-109.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION								
	FORAMIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																		
MIDDLE MIOCENE	<i>N. nymppha</i> (= N15 - N16)				O ● O	• 72.14 71.23	• +42.9%	1	0.5 1.0				*	DIATOM NANNOFOSSIL OOZE AND NANNOFOSSIL OOZE WITH DIATOMS Major lithology: DIATOM NANNOFOSSIL OOZE, light gray (5Y 7/1) overlying NANNOFOSSIL OOZE with DIATOMS, light greenish gray (5G 7/1) with a gradational contact. Green colors here are associated with smaller diatom content and diatoms being broken and dissolved. SMEAR SLIDE SUMMARY (%): <table border="1" style="display: inline-table; margin-left: 20px;"> <tr><td></td><td>1, 50</td><td>4, 50</td><td>6, 13</td></tr> <tr><td></td><td>D</td><td>D</td><td>M</td></tr> </table> TEXTURE: Sand 20 5 10 Silt 76 85 83 Clay 4 10 7 COMPOSITION: Calcareous fragments — 2 — Diatoms 43 15 28 Foraminifers Tr Tr 3 Nannofossils 55 79 67 Radiolarians 2 3 2 Tr Tr Tr Silicoflagellates — 1 — Spicules — — —		1, 50	4, 50	6, 13		D	D	M
	1, 50	4, 50	6, 13																			
	D	D	M																			
A/M-G	UPPER MIDDLE MIOCENE to LOWER PLIOCENE (>NN15 . s UPPER NN7)				O ● O	• 74.41 74.31	• +46.7%	2														
	<i>A. galowini</i>				●	• 65.90 65.53	• -67.3%	3														
	<i>N. grossepunctata</i>				●	• 63.14 61.63	• 65.7%	4														
					●	• 63.02 61.87	OC=0.09% • -69.6%	5					PP									
					●	• 65.50 61.39	• -58.6%	6					IW									
					O			7		VOID			*									

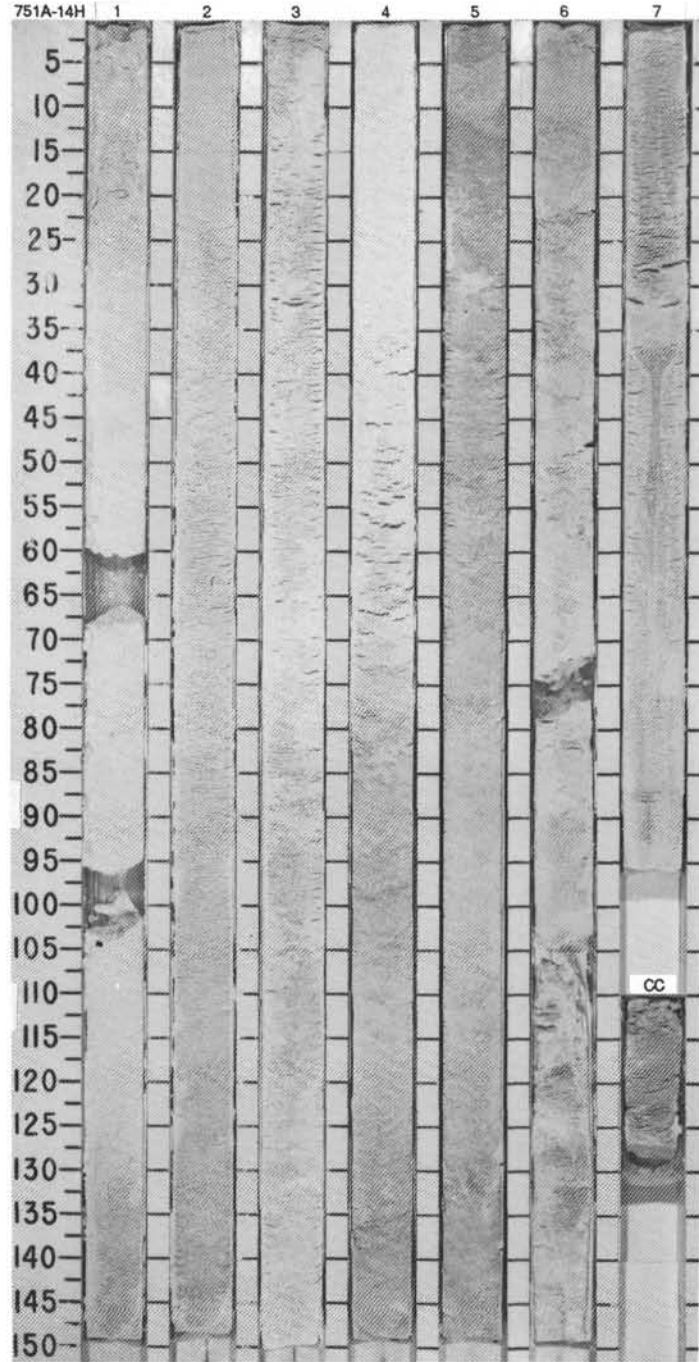


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																											
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS																																					
MIDDLE to LOWER MIOCENE													<p>NANNOFOSSIL DIATOM OOZE AND DIATOM NANNOFOSSIL OOZE</p> <p>Major lithology: NANNOFOSSIL DIATOM OOZE, light gray (5Y 7/1), from top of core to Section 4, 70 cm; overlies DIATOM NANNOFOSSIL OOZE, white (5Y 8/1) with a gradational contact.</p> <p>* Ooze is uniform and firm, with no structures visible; high water content from top of Section 5 through the base of the core (possibly flow-in?).</p> <p>Minor lithology: porcellanite, pinkish gray (7.5 YR 8/2), occurs in Section 1, 22-27 cm, as a single 5-cm piece, probably cave-in material.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 86</td> <td>4, 89</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Calcareous fragments</td> <td>—</td> <td>5</td> </tr> <tr> <td>Diatoms</td> <td>55</td> <td>15</td> </tr> <tr> <td>Foraminifers</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Micrite</td> <td>—</td> <td>2</td> </tr> <tr> <td>Nannofossils</td> <td>45</td> <td>75</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Silicoflagellates</td> <td>Tr</td> <td>Tr</td> </tr> </table>		1, 86	4, 89	D	D	D	Calcareous fragments	—	5	Diatoms	55	15	Foraminifers	—	Tr	Micrite	—	2	Nannofossils	45	75	Radiolarians	Tr	Tr	Silicoflagellates	Tr	Tr
	1, 86	4, 89																																						
D	D	D																																						
Calcareous fragments	—	5																																						
Diatoms	55	15																																						
Foraminifers	—	Tr																																						
Micrite	—	2																																						
Nannofossils	45	75																																						
Radiolarians	Tr	Tr																																						
Silicoflagellates	Tr	Tr																																						
M4 - <i>Globorotalia miozea</i>							1	0.5																																
UPPER LOWER MIOCENE (NN4)							2	1.0																																
MIDDLE MIOCENE							3																																	
<i>N. grossepunctata</i>							4																																	
							5																																	
<i>D. maccollumii</i>							6																																	
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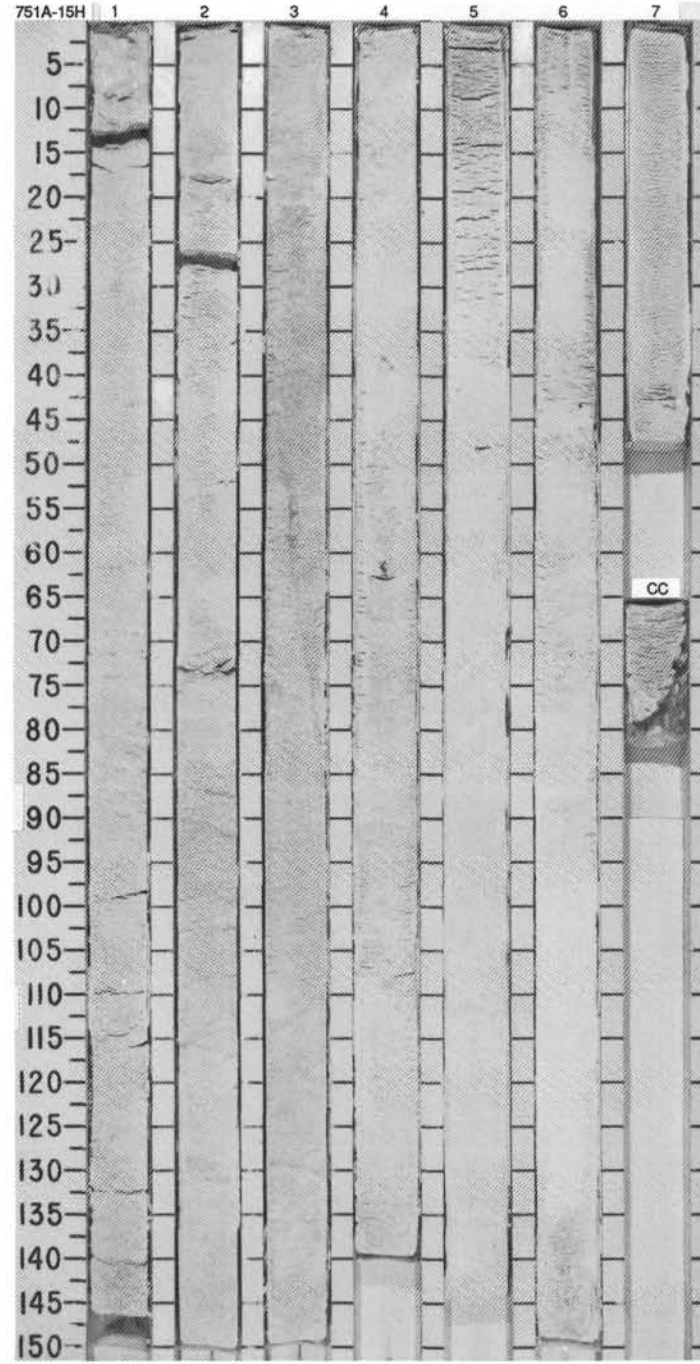
SITE 751 HOLE A CORE 14H CORED INTERVAL 118.7-128.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																								
LOWER MIOCENE											<p>NANNOFOSSIL OOZE</p> <p>Major lithology: NANNOFOSSIL OOZE, light gray (5Y 7/1) to white (N8), occurs from Section 1, 130 cm, through the base of the core; contains <5% diatoms. Burrow mottling occurs in Section 5, 110-150 cm; otherwise, no structures are visible. Distinct flow-in occurs below Section 6, 103 cm.</p> <p>Minor lithologies:</p> <p>a. Nannofossil diatom ooze, white (5Y 8/1), occurs in Section 1, 0-130 cm. Very high water content; uniform; no structures visible.</p> <p>b. Porcellanite, white (whiter than N8) occurs as a single 2-cm fragment at the top of Section 1 (cave-in material?).</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 80</td> <td>4, 30</td> <td>5, 30</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>40</td> <td>1</td> <td>3</td> </tr> <tr> <td>Silt</td> <td>55</td> <td>94</td> <td>92</td> </tr> <tr> <td>Clay</td> <td>5</td> <td>4</td> <td>5</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Diatoms</td> <td>75</td> <td>1</td> <td>5</td> </tr> <tr> <td>Foraminifers</td> <td>—</td> <td>1</td> <td>1</td> </tr> <tr> <td>Nannofossils</td> <td>24</td> <td>98</td> <td>93</td> </tr> <tr> <td>Radiolarians</td> <td>1</td> <td>Tr</td> <td>1</td> </tr> <tr> <td>Spicules</td> <td>—</td> <td>Tr</td> <td>Tr</td> </tr> </table>		1, 80	4, 30	5, 30		D	D	D	Sand	40	1	3	Silt	55	94	92	Clay	5	4	5	Diatoms	75	1	5	Foraminifers	—	1	1	Nannofossils	24	98	93	Radiolarians	1	Tr	1	Spicules	—	Tr	Tr
	1, 80	4, 30	5, 30																																																
	D	D	D																																																
Sand	40	1	3																																																
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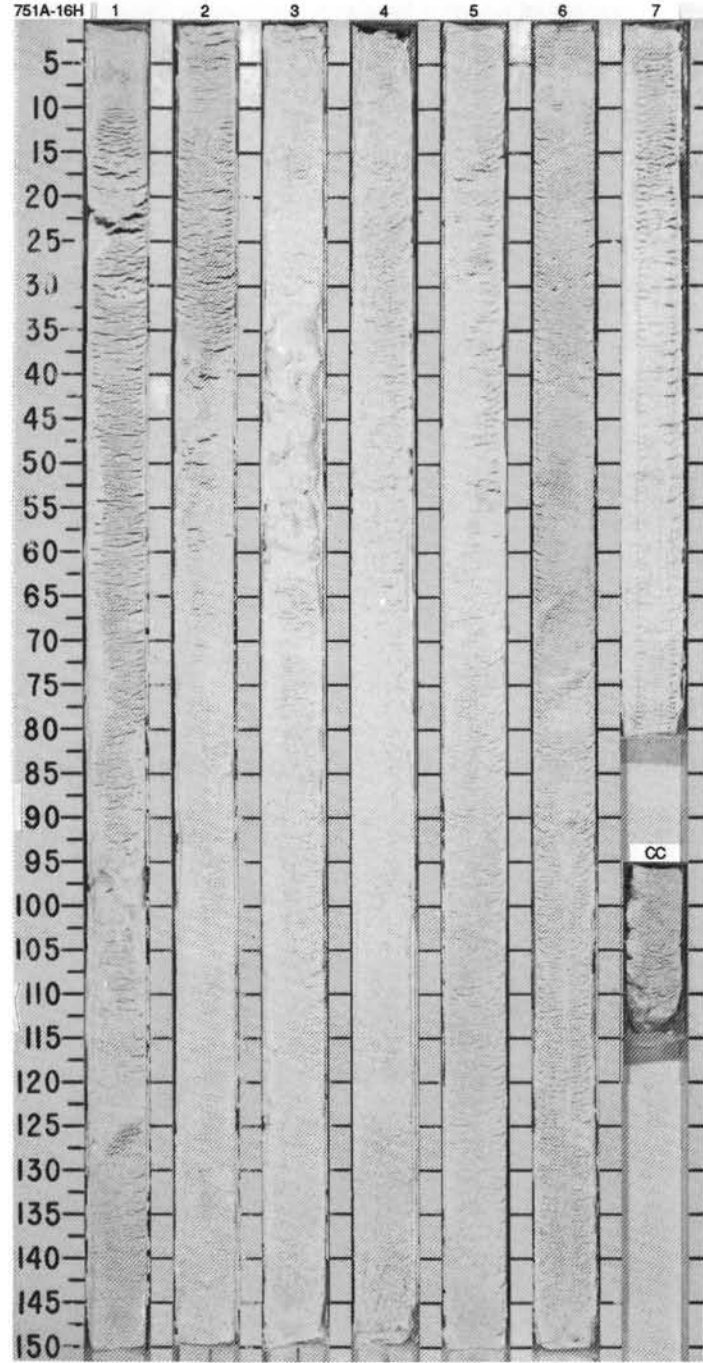
SITE 751 HOLE A CORE 15H CORED INTERVAL 128.2-137.7 mbsf

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																																										
LOWER MIOCENE	M3 -	<i>Globorotalia zealandica</i>		●	●	●	1	0.5					DIATOM NANNOFOSSIL OOZE Major lithology: DIATOM NANNOFOSSIL OOZE, white (SY 8/1), with episodic or cyclic changes in diatom abundance (20%-50%). Visible structures are rare, limited to faint mottlings in Sections 3 and 4. Diatoms are predominantly centric. Darker intervals may be slightly richer in diatoms. Crosscutting, oblique Planolites burrows in Section 5, 62-110 cm, occur in slightly darker interval. Dark olive-filled burrows occur in Section 4, 60-61 cm. Minor lithology: Nannofossil ooze with diatoms, white (SY 8/1), gradational contacts with major lithology; occurs in Section 4, 100-120 cm. SMEAR SLIDE SUMMARY (%): <table style="margin-left: 20px;"> <tr> <td></td> <td>1.70</td> <td>3.70</td> <td>6.70</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> COMPOSITION: <table style="margin-left: 20px;"> <tr> <td>Calcareous fragments</td> <td>2</td> <td>4</td> <td>2</td> </tr> <tr> <td>Diatoms</td> <td>40</td> <td>40</td> <td>20</td> </tr> <tr> <td>Foraminifers</td> <td>1</td> <td>2</td> <td>2</td> </tr> <tr> <td>Nannofossils</td> <td>55</td> <td>50</td> <td>75</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>4</td> <td>Tr</td> </tr> <tr> <td>Silicoflagellates</td> <td>Tr</td> <td>Tr</td> <td>—</td> </tr> </table>		1.70	3.70	6.70	D	D	D	D	Calcareous fragments	2	4	2	Diatoms	40	40	20	Foraminifers	1	2	2	Nannofossils	55	50	75	Radiolarians	Tr	4	Tr	Silicoflagellates	Tr	Tr	—
	1.70	3.70	6.70																																										
D	D	D	D																																										
Calcareous fragments	2	4	2																																										
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Silicoflagellates	Tr	Tr	—																																										
A/G				●	●	●	2	1.0																																					
LOWER MIOCENE				●	●	●	3	1.5																																					
LOWER MIOCENE		<i>D. maccollumii</i>		●	●	●	4	2.0																																					
				●	●	●	5	2.5																																					
				●	●	●	6	3.0																																					
				●	●	●	7	3.5																																					
				●	●	●	CC	3.75																																					

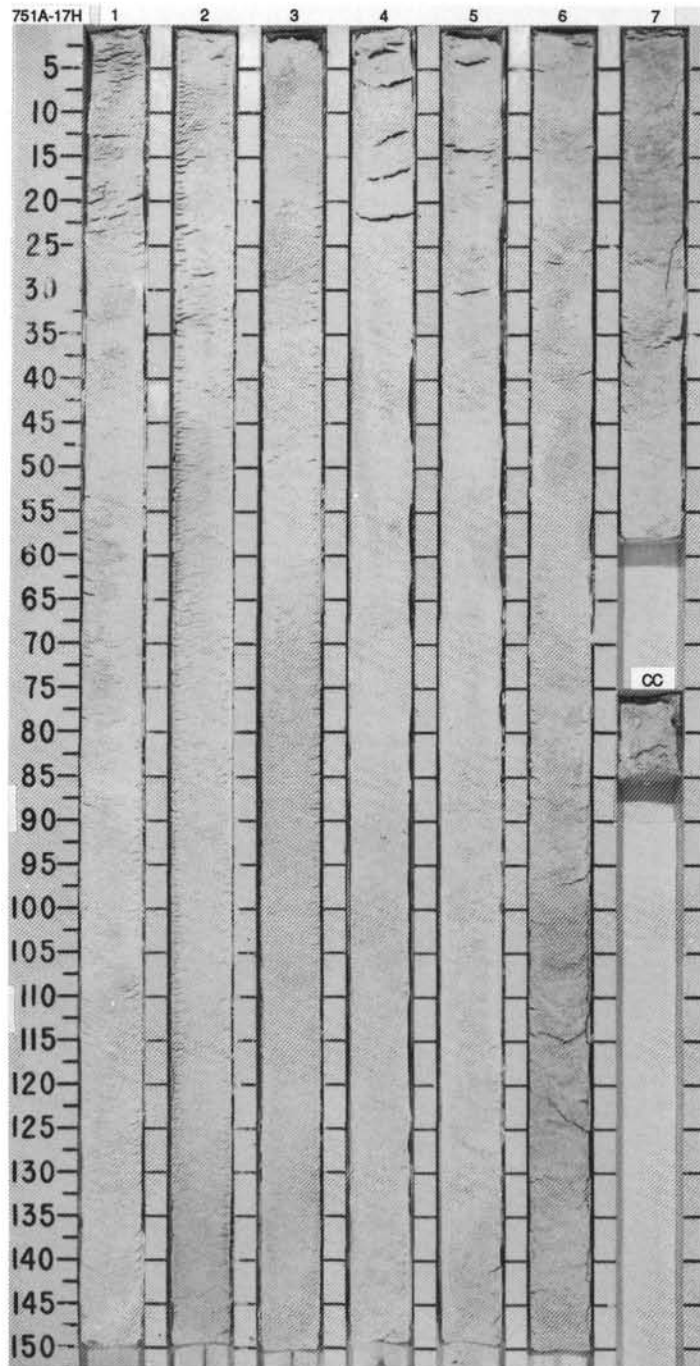


SITE 751 HOLE A CORE 16H CORED INTERVAL 137.7-147.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																							
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																	
	D. maccollumii																																																				
	N. maleinterpretaria																																																				
LOWER MIOCENE	<i>Globorotalia praescitula</i>				● β -64.66	● β -64.66	● +86.0%	1	0.5				<p>NANNOFOSSIL OOZE</p> <p>Major lithology: NANNOFOSSIL OOZE, varies in shades of white (N8 to 5Y 8/1). Darker intervals are from the top of Section 1 to Section 2, 35 cm, and Section 5, 0-75 cm; Lighter intervals are from Section 2, 35 cm, to the base of Section 5, and from Section 6, 75 cm, to the base of the core. Lighter intervals are enriched in diatoms (5%). Ooze is firm and uniform in appearance throughout.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>1, 30</th> <th>3, 30</th> <th>6, 30</th> </tr> <tr> <th>D</th> <th>D</th> <th>D</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>Sand</td> <td>2</td> <td>2</td> <td>3</td> </tr> <tr> <td>Silt</td> <td>93</td> <td>93</td> <td>92</td> </tr> <tr> <td>Clay</td> <td>5</td> <td>5</td> <td>5</td> </tr> </tbody> </table> <p>TEXTURE:</p> <p>COMPOSITION:</p> <table border="1"> <tbody> <tr> <td>Diatoms</td> <td>Tr</td> <td>5</td> <td>5</td> </tr> <tr> <td>Foraminifers</td> <td>2</td> <td>1</td> <td>2</td> </tr> <tr> <td>Nannofossils</td> <td>97</td> <td>93</td> <td>92</td> </tr> <tr> <td>Radiolarians</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td>Silicoflagellates</td> <td>-</td> <td>-</td> <td>Tr</td> </tr> </tbody> </table>		1, 30	3, 30	6, 30	D	D	D	D	Sand	2	2	3	Silt	93	93	92	Clay	5	5	5	Diatoms	Tr	5	5	Foraminifers	2	1	2	Nannofossils	97	93	92	Radiolarians	1	1	1	Silicoflagellates	-	-	Tr
	1, 30	3, 30	6, 30																																																		
D	D	D	D																																																		
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Nannofossils	97	93	92																																																		
Radiolarians	1	1	1																																																		
Silicoflagellates	-	-	Tr																																																		
A/G					● β -62.67	● β -62.67	● +85.6%	2	1.0																																												
LOWER MIOCENE					● β -62.30	● β -62.30	● +91.8%	3	1.5																																												
LOWER MIOCENE					● β -62.30	● β -62.30	● +90.2%	4	2.0																																												
					● β -63.18	● β -63.18	OC=0.0%	5	2.5																																												
					● β -63.18	● β -63.18	● -91.0%	6	3.0																																												
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TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																												
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS																																						
LOWER MIOCENE	M2 - <i>P. incognita</i> - <i>P. semivera</i>						1	0.5					<p>NANNOFOSSIL OOZE WITH DIATOMS AND DIATOM NANNOFOSSIL OOZE</p> <p>Major lithology: NANNOFOSSIL OOZE with DIATOMS, white (10YR 8/1), occurs from top of Section 1 to upper part of Section 3; beneath this diatom nannofossil ooze, white (10YR 8/1) continues to Section 6, 100 cm. Faint mottling in Sections 2, 3, and 4.</p> <p>Minor lithology: Nannofossil diatom ooze, light gray (10YR 7/1), occurs from Section 6, 100 cm, to the base of the core; gradational contact with overlying ooze.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2,80</td> <td>4,93</td> <td>6,122</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Diatoms</td> <td>8</td> <td>30</td> <td>65</td> </tr> <tr> <td>Foraminifers</td> <td>2</td> <td>3</td> <td>3</td> </tr> <tr> <td>Nannofossils</td> <td>89</td> <td>65</td> <td>30</td> </tr> <tr> <td>Radiolarians</td> <td>1</td> <td>2</td> <td>2</td> </tr> <tr> <td>Silicoflagellates</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> </table>		2,80	4,93	6,122	D	D	D	D	Diatoms	8	30	65	Foraminifers	2	3	3	Nannofossils	89	65	30	Radiolarians	1	2	2	Silicoflagellates	Tr	Tr	Tr
	2,80	4,93	6,122																																						
D	D	D	D																																						
Diatoms	8	30	65																																						
Foraminifers	2	3	3																																						
Nannofossils	89	65	30																																						
Radiolarians	1	2	2																																						
Silicoflagellates	Tr	Tr	Tr																																						
A/G	LOWER MIOCENE						2	1.0																																	
	LOWER MIOCENE						3																																		
	<i>Thalassiosira fraga</i>						4																																		
	<i>N. mairinterpretaria</i>						5																																		
							6																																		
							7																																		



SITE 751 HOLE A CORE 18H CORED INTERVAL 156.7-166.2 mdsf

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																																																		
LOWER MIOCENE	M2 - <i>P. incognita</i> - <i>P. semivera</i>				○			1	0.5 1.0					<p>NANNOFOSSIL OOZE WITH DIATOMS</p> <p>Major lithology: NANNOFOSSIL OOZE with DIATOMS, white (5Y 8/1), uniform throughout except for mottles in Section 5, 114-119 cm. Drilling disturbance is mostly minor; soupy in Section 1, 100-110 cm, and Section 3, 65-105 cm. Relative proportions of diatoms and nannofossils vary on a submeter scale (variations are greater than 50%).</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>1, 70</th> <th>3, 70</th> <th>5, 70</th> <th>6, 70</th> </tr> </thead> <tbody> <tr> <td>D</td> <td></td> <td>M</td> <td>D</td> <td>D</td> </tr> </tbody> </table> <p>TEXTURE:</p> <p>Silt — 100 — —</p> <p>COMPOSITION:</p> <table border="1"> <tbody> <tr> <td>Calcareous fragments</td> <td>3</td> <td>1</td> <td>Tr</td> <td>1</td> </tr> <tr> <td>Diatoms</td> <td>23</td> <td>8</td> <td>30</td> <td>15</td> </tr> <tr> <td>Foraminifers</td> <td>3</td> <td>1</td> <td>Tr</td> <td>2</td> </tr> <tr> <td>Nannofossils</td> <td>68</td> <td>90</td> <td>65</td> <td>80</td> </tr> <tr> <td>Radiolarians</td> <td>3</td> <td>—</td> <td>1</td> <td>2</td> </tr> <tr> <td>Silicoflagellates</td> <td>—</td> <td>—</td> <td>2</td> <td>—</td> </tr> </tbody> </table>		1, 70	3, 70	5, 70	6, 70	D		M	D	D	Calcareous fragments	3	1	Tr	1	Diatoms	23	8	30	15	Foraminifers	3	1	Tr	2	Nannofossils	68	90	65	80	Radiolarians	3	—	1	2	Silicoflagellates	—	—	2	—
	1, 70	3, 70	5, 70	6, 70																																																		
D		M	D	D																																																		
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Silicoflagellates	—	—	2	—																																																		
	LOWER MIOCENE				○		2	VOID																																														
A/G	LOWER (?) LOWER MIOCENE				○		3																																															
	<i>Thalassiosira fraga</i>				○		4																																															
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