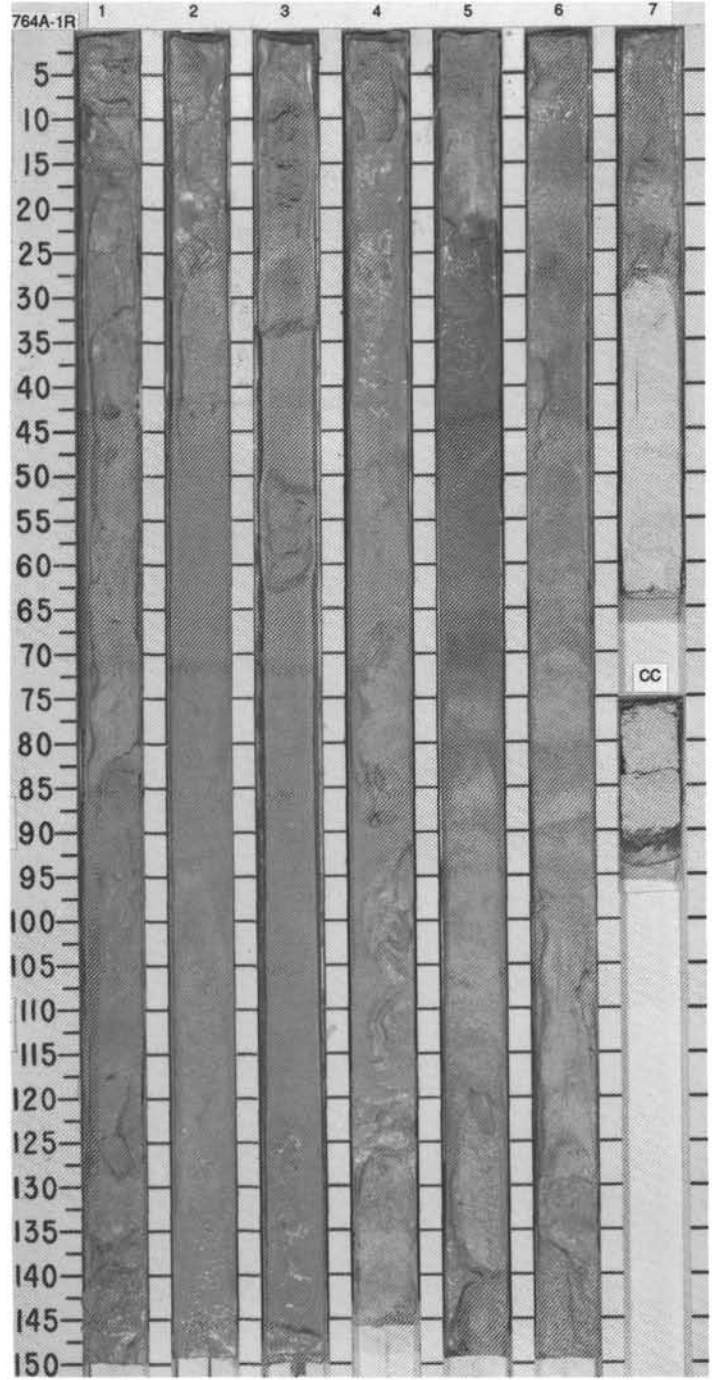


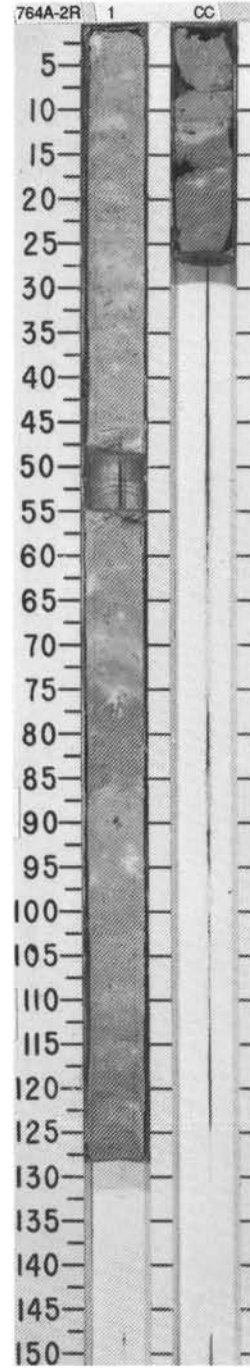
SITE 764 HOLE A CORE 1R CORED INTERVAL 0.0-9.5 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		SECTION	METERS	GRAPHIC LITHOLOGY	BRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																												
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONES																																																																			
QUATERNARY		N22 - N23		1	0.5		O	O	*	<p>FORAMINIFER NANNOFOSSIL OOZE WITH CLAY</p> <p>The core is soupy in Sections 1-4. It becomes firmer but still internally deformed in Sections 5-CC.</p> <p>Major lithology: FORAMINIFERAL NANNOFOSSIL OOZE with CLAY, pink (7.5YR 7/4) in Section 1 through 5, 20 cm; in Section 5, 80 cm through Section 7, 28 cm, the ooze is variegated and banded pink (7.5YR 7/4, 7.5YR 8/4), pinkish gray (7.5YR 7/3, 7.5YR 7/2) and light brown (7.5YR 8/4). Clay content in the core varies from 5-10% depending upon the darkness of the sediment.</p> <p>Minor lithologies: a. Nannofossil foraminifer ooze with radiolarians and clay, pinkish gray (7.5YR 8/2), becoming lighter lower in the interval as the clay content decreases. The clay content in the pinkish gray ooze is 7-10%, in Section 5, 20-80 cm. b. Nannofossil ooze with foraminifers, white (7.5YR 8/1), firm, faintly banded, in Section 7, 28-64 cm, and in Section CC.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 65</td> <td>4, 27</td> <td>5, 23</td> <td>7, 40</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Biotite</td> <td>Tr</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Calcospheres</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>7</td> <td>10</td> <td>—</td> </tr> <tr> <td>Fe oxide</td> <td>Tr</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Fish</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td>40</td> <td>40</td> <td>50</td> <td>12</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>53</td> <td>51</td> <td>30</td> <td>88</td> </tr> <tr> <td>Ostracod</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Radiolarians</td> <td>7</td> <td>2</td> <td>10</td> <td>—</td> </tr> </table>		1, 65	4, 27	5, 23	7, 40		D	D	D	D	Biotite	Tr	—	—	Tr	Calcospheres	—	Tr	—	—	Clay	—	7	10	—	Fe oxide	Tr	Tr	—	—	Fish	—	—	—	Tr	Foraminifers	40	40	50	12	Mica	—	Tr	Tr	Tr	Nannofossils	53	51	30	88	Ostracod	—	Tr	—	—	Radiolarians	7	2	10	—
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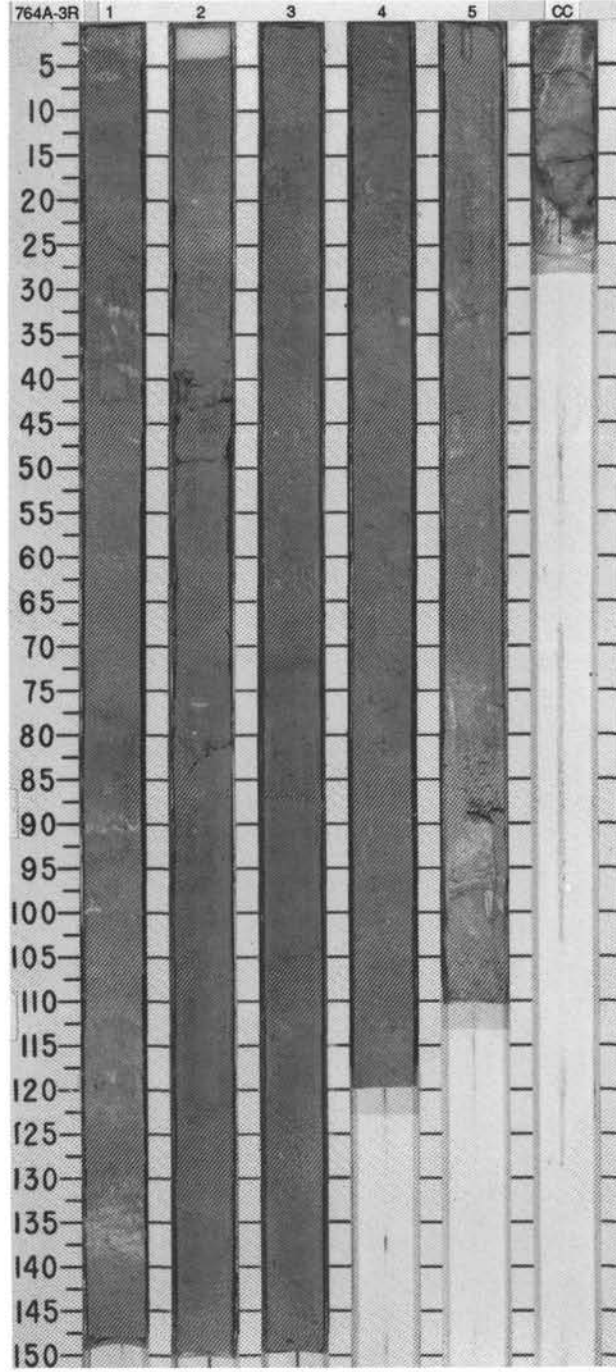
SITE 764 HOLE A CORE 2R CORED INTERVAL 9.5-19.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																														
MIDDLE MIOCENE	A/M	A/G	Barren	Barren				1	0.5					FORAMINIFER NANNOFOSSIL OOZE WITH CLAY AND NANNO-FOSSIL OOZE WITH FORAMINIFERS WITH CLAY Moderate drilling disturbance. Major lithologies: FORAMINIFER NANNOFOSSIL OOZE with CLAY, light gray (2.5Y 7/2) and pale brown (10YR 6/3), interbedded with NANNOFOSSIL OOZE with FORAMINIFERS WITH CLAY, light gray (10YR 7/2) and pale brown (10YR 6/3). Contains some clay and traces of bioclasts, plant remains, pyrite and dolomite rhombs. The core is unbedded and moderately to strongly bioturbated with mottles of above colors and also of white (10YR 8/2). Burrow are infilled with dark gray (10YR 4/1) pyritic grains. SMEAR SLIDE SUMMARY (%): <table border="1"> <tr> <td></td> <td>1.37</td> <td>1,114</td> <td>CC, 17</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> COMPOSITION: <table border="1"> <tr> <td>Bioclast</td> <td>2</td> <td>Tr</td> <td>1</td> </tr> <tr> <td>Clay</td> <td>5</td> <td>5</td> <td>5</td> </tr> <tr> <td>Dolomite</td> <td>Tr</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td>40</td> <td>20</td> <td>15</td> </tr> <tr> <td>Nannofossils</td> <td>53</td> <td>75</td> <td>79</td> </tr> <tr> <td>Plant</td> <td>Tr</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Pyrite</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> </table>		1.37	1,114	CC, 17	D	D	D	D	Bioclast	2	Tr	1	Clay	5	5	5	Dolomite	Tr	—	Tr	Foraminifers	40	20	15	Nannofossils	53	75	79	Plant	Tr	—	Tr	Pyrite	Tr	Tr	Tr
	1.37	1,114	CC, 17																																															
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Pyrite	Tr	Tr	Tr																																															
					V-1.55 ^{0.85} / _{2.1} ^{0.8} / _{1.6} ^{0.5} / _{0.8}	CaCO ₃ = 80.8%	CC																																											



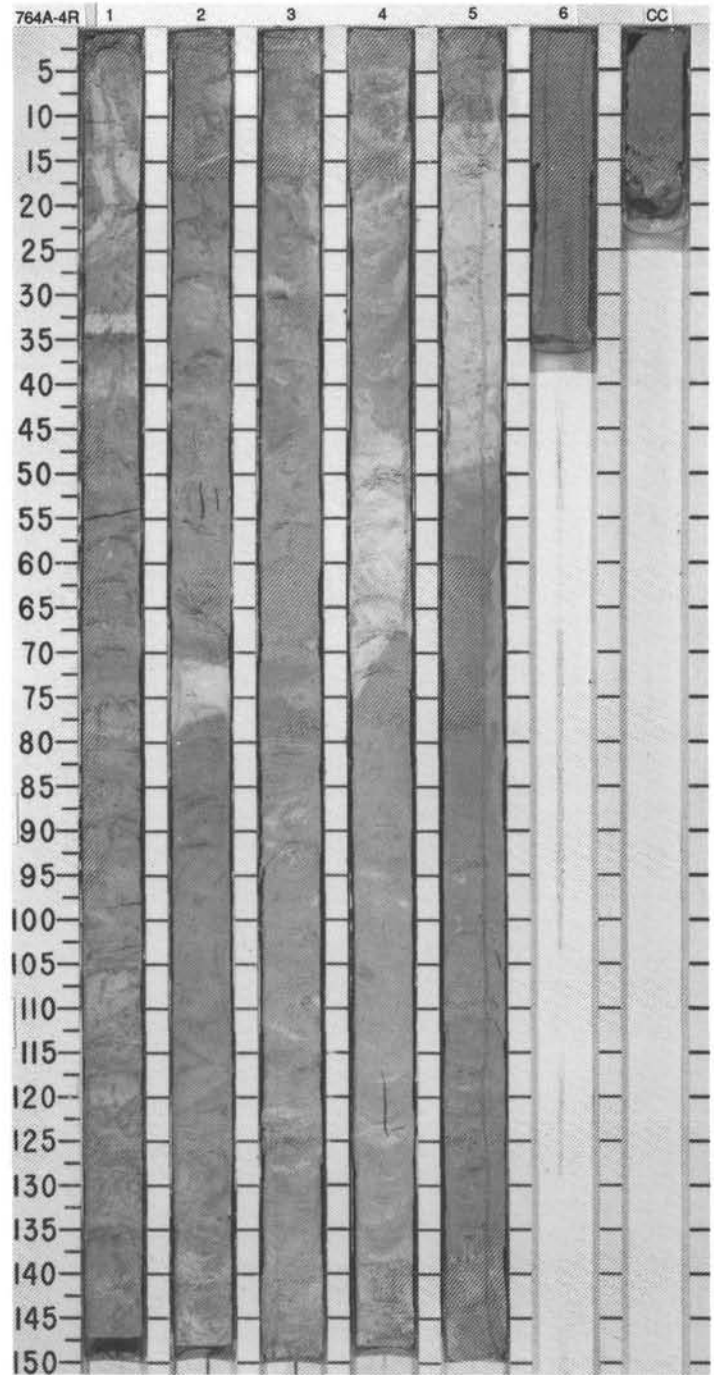
SITE 764 HOLE A CORE 3R CORED INTERVAL 19.0-28.5 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																
UPPER OLILOCENE	LOWER MIOCENE	FORAMINIFERS	NANNOFOSSILS																																																										
A/G	P22 ~ NB							0.5					<p>NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY</p> <p>Major lithology: NANNOFOSSIL OOZE WITH FORAMINIFERS and CLAY, light yellowish brown (10YR 6/4), homogeneous with very pale brown (10YR 8/3) mottles throughout, occasionally evident as large (1-2 cm wide) burrows. Structures are rare to absent except for occasional diffuse laminations. The foraminifer content increases towards the base. Numerous black (pyrite?) specks are present</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1.83</td> <td>3.82</td> <td>5.77</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>5</td> <td>3</td> <td>2</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>10</td> <td>10</td> </tr> <tr> <td>Fe oxide</td> <td>2</td> <td>3</td> <td>3</td> </tr> <tr> <td>Fish</td> <td>-</td> <td>-</td> <td>1</td> </tr> <tr> <td>Foraminifers</td> <td>10</td> <td>15</td> <td>20</td> </tr> <tr> <td>Glauconite</td> <td>-</td> <td>-</td> <td>1</td> </tr> <tr> <td>Nannofossils</td> <td>71</td> <td>64</td> <td>60</td> </tr> <tr> <td>Quartz</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Shell debris</td> <td>-</td> <td>-</td> <td>1</td> </tr> <tr> <td>Spicules</td> <td>-</td> <td>3</td> <td>-</td> </tr> </table>		1.83	3.82	5.77	D		D	D	Accessory minerals	5	3	2	Clay	10	10	10	Fe oxide	2	3	3	Fish	-	-	1	Foraminifers	10	15	20	Glauconite	-	-	1	Nannofossils	71	64	60	Quartz	2	2	2	Shell debris	-	-	1	Spicules	-	3	-
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A/G	NN1 - NN2	A/G	NN3	A/G				1.0																																																					
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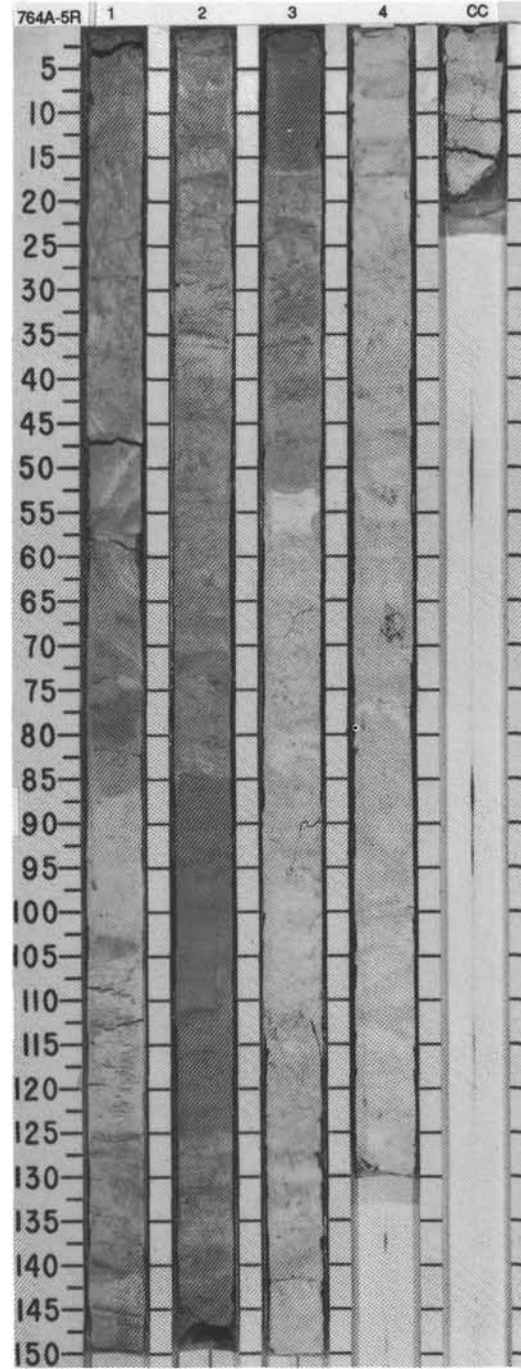
SITE 764 HOLE A CORE 4R CORED INTERVAL 28.5-38.0 mdsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																										
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																				
UPPER OLIGOCENE																																																								
A/M-G	P21					V-1 .59								<p>NANNOFOSSIL OOZE WITH CLAY</p> <p>Major lithology: NANNOFOSSIL OOZE with CLAY, light yellowish brown (10YR 6/4), generally structureless or faintly laminated. Brown color might be caused by iron oxides or clays. The core includes detrital components (<2% quartz, 5-10% clay) and minor foraminifers (about 5%). Some mottled intervals with small dark gray (pyrite?) specks are present in the lower half of Section 2.</p> <p>Minor lithology: Nannofossil ooze, very pale brown (10YR 7/3), 3-40 cm thick interbeds in Sections 1, 2, 4 and 5. Composition is similar to the major lithology. Minor laminations in Section 4, 45-70 cm.</p> <p>SMEAR SLIDE SUMMARY (%)</p> <table border="1"> <tr> <td></td> <td>1, 33</td> <td>2, 134</td> <td>4, 59</td> <td>5, 23</td> <td>6, 16</td> </tr> <tr> <td></td> <td>M</td> <td>D</td> <td>M</td> <td>M</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>3</td> <td>7</td> <td>5</td> <td>3</td> <td>7</td> </tr> <tr> <td>Foraminifers</td> <td>2</td> <td>3</td> <td>3</td> <td>7</td> <td>5</td> </tr> <tr> <td>Nannofossils</td> <td>91</td> <td>85</td> <td>91</td> <td>87</td> <td>81</td> </tr> <tr> <td>Opales</td> <td>2</td> <td>5</td> <td>-</td> <td>3</td> <td>5</td> </tr> <tr> <td>Quartz</td> <td>-</td> <td>Tr</td> <td>-</td> <td>-</td> <td>2</td> </tr> </table>		1, 33	2, 134	4, 59	5, 23	6, 16		M	D	M	M	D	Clay	3	7	5	3	7	Foraminifers	2	3	3	7	5	Nannofossils	91	85	91	87	81	Opales	2	5	-	3	5	Quartz	-	Tr	-	-	2
	1, 33	2, 134	4, 59	5, 23	6, 16																																																			
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A/G	NP24					V-1 .59																																																		
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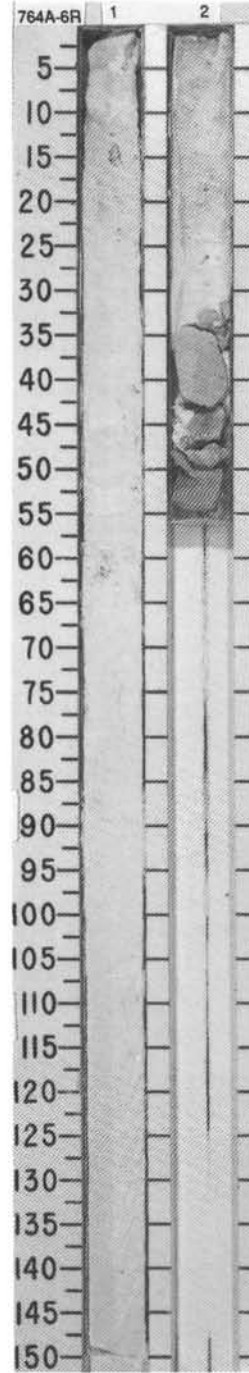
SITE 764 HOLE A CORE 5R CORED INTERVAL 38.0-47.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																
	FORAMINIFERS	NANNOFOSSILS																																																																																																									
	RADIOLARIANS	DIATOMS																																																																																																									
UPPER MAESTRICHTIAN	Eocene - Oligocene					1	0.5				<p>NANNOFOSSIL OOZE WITH FORAMINIFERS AND FORAMINIFER NANNOFOSSIL OOZE WITH CLAY</p> <p>Core shows little drilling disturbance.</p> <p>Major lithologies: NANNOFOSSIL OOZE with FORAMINIFERS, white (10YR 8/2) to very pale brown (10YR 8/3) alternating with FORAMINIFER NANNOFOSSIL OOZE with CLAY, very pale brown (10YR 7/3) to light yellowish brown (10YR 6/4). Lithologies are cyclic repeating every 1.0-1.5 m. Thinner (10-20 cm) cyclic interbeds are also present indicating varying amounts of foraminifers and clay. Chalky nodules are observed in Section 1, 58-60 cm, Section 4, 50-53, 84-86, and 88-91 cm. Section 3 contains the Cretaceous-Tertiary boundary at 52 cm. Mixed Eocene to upper Oligocene foraminifer nannofossil oozes with clay lie directly on top of Maestrichtian nannofossil oozes with foraminifers. The boundary is also marked by a color change from a very pale brown to white.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1" style="margin-left: 40px;"> <thead> <tr> <th></th> <th>1, 92</th> <th>2, 78</th> <th>2, 91</th> <th>3, 13</th> <th>3, 44</th> <th>3, 108</th> <th>4, 111</th> </tr> </thead> <tbody> <tr> <td>D</td> <td></td> <td>M</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </tbody> </table> <p>COMPOSITION:</p> <table border="1" style="margin-left: 40px;"> <thead> <tr> <th>Accessory minerals</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> </tr> </thead> <tbody> <tr> <td>Carbonate</td> <td></td> <td></td> <td>Tr</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Clay</td> <td>3</td> <td>4</td> <td>10</td> <td>7</td> <td>3</td> <td>2</td> <td>3</td> </tr> <tr> <td>Foraminifers</td> <td>12</td> <td>15</td> <td>30</td> <td>10</td> <td>16</td> <td>8</td> <td>12</td> </tr> <tr> <td>Glass</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td>1</td> </tr> <tr> <td>Nannofossils</td> <td>83</td> <td>75</td> <td>54</td> <td>75</td> <td>77</td> <td>84</td> <td>79</td> </tr> <tr> <td>Opakes</td> <td>Tr</td> <td>2</td> <td>3</td> <td>5</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Quartz</td> <td>1</td> <td>2</td> <td></td> <td></td> <td>1</td> <td>2</td> <td>1</td> </tr> <tr> <td>Spicules</td> <td>1</td> <td>1</td> <td>3</td> <td>2</td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>Zeolite</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Tr</td> <td></td> </tr> </tbody> </table>		1, 92	2, 78	2, 91	3, 13	3, 44	3, 108	4, 111	D		M	D	D	D	D	D	Accessory minerals	1	2	3	4	5	6	7	Carbonate			Tr					Clay	3	4	10	7	3	2	3	Foraminifers	12	15	30	10	16	8	12	Glass				1			1	Nannofossils	83	75	54	75	77	84	79	Opakes	Tr	2	3	5	2	2	2	Quartz	1	2			1	2	1	Spicules	1	1	3	2		2		Zeolite						Tr	
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Opakes	Tr	2	3	5	2	2	2																																																																																																				
Quartz	1	2			1	2	1																																																																																																				
Spicules	1	1	3	2		2																																																																																																					
Zeolite						Tr																																																																																																					
P/G <i>A. mayaroensis</i> MAESTRICHTIAN	UPPER EOCENE - LOWER OLILOCENE					2	1.0																																																																																																				
A/G CC25 UPPER CAMPANIAN	A/G LOWER OLILOCENE - UPPER EOCENE					3																																																																																																					
Barren	(UPPER CAMPANIAN)					4																																																																																																					
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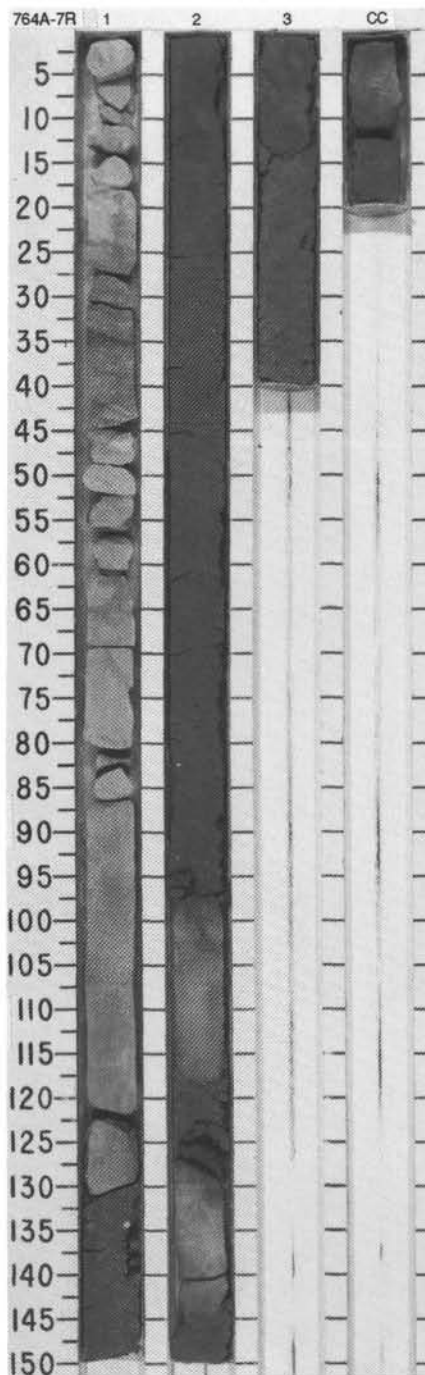


SITE 764 HOLE A CORE 6R CORED INTERVAL 47.5-57.0 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																											
FORAMINIFERS	NANNOFOSSILS																																			
CAMPANIAN - CONIACIAN		Barren • ← CC18 - CC21 Barren (LOWER CAMPANIAN - SANTONIAN)	1	0.5	[Lithology symbol]	○			NANNOFOSSIL CHALK WITH FORAMINIFERS Core is moderately disturbed. Major lithology: NANNOFOSSIL CHALK with FORAMINIFERS, white (10YR 8/1), is structureless and includes Inoceramus fragments. These fragments are concentrated in Section 1, 59-63 cm. Minor lithology: CARBONATE WACKESTONE, white (10YR 8/2), contains abundant foraminifers, some crinoid fragments and minor molluscan shells. SMEAR SLIDE AND THIN SECTION SUMMARY (%): <table border="0"> <tr> <td></td> <td>1, 100</td> <td>2, 52</td> </tr> <tr> <td></td> <td>D</td> <td>M</td> </tr> </table> COMPOSITION: <table border="0"> <tr> <td>Clay</td> <td>3</td> <td>—</td> </tr> <tr> <td>Dolomite</td> <td>1</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>12</td> <td>—</td> </tr> <tr> <td>Glass</td> <td>1</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>77</td> <td>—</td> </tr> <tr> <td>Opales</td> <td>2</td> <td>—</td> </tr> <tr> <td>Spicules</td> <td>4</td> <td>—</td> </tr> </table>		1, 100	2, 52		D	M	Clay	3	—	Dolomite	1	—	Foraminifers	12	—	Glass	1	—	Nannofossils	77	—	Opales	2	—	Spicules	4	—
	1, 100		2, 52																																	
	D		M																																	
Clay	3	—																																		
Dolomite	1	—																																		
Foraminifers	12	—																																		
Glass	1	—																																		
Nannofossils	77	—																																		
Opales	2	—																																		
Spicules	4	—																																		
A/G	Barren •																																			
A/G	Barren																																			
PALEOMAGNETICS			V=1.59 P=0.6 I=1.88																																	
CHEMISTRY			CaCO ₃ =40.2%																																	

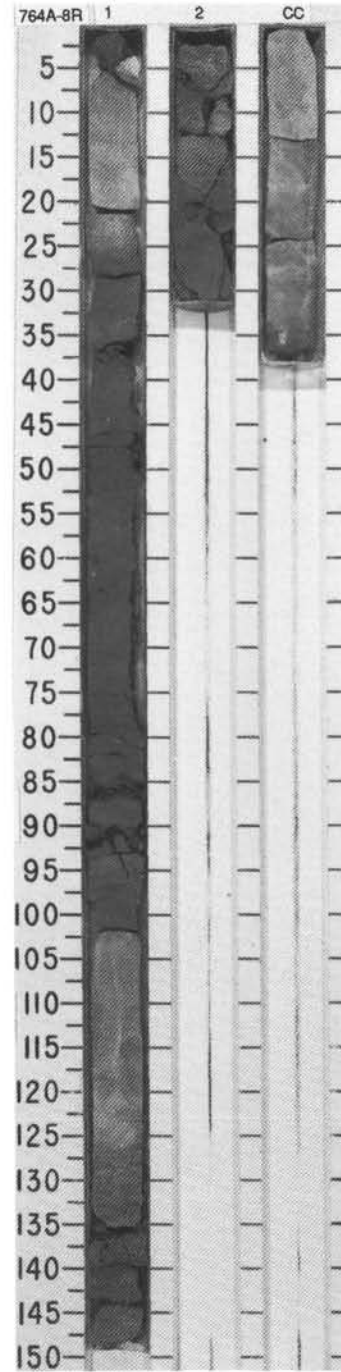


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																										
RHAETIAN																																																																		
FORAMINIFERS																																																																		
NANNOFOSSILS	<i>Triasina hamfkeni</i>																																																																	
RADIOLARIANS	Upper Triassic species F/M																																																																	
DIATOMS	UPPER NORIAN / RHAETIAN																																																																	
PALYMNORPHS																																																																		
PALOMAGNETICS	<i>A. reducta</i>																																																																	
PHYS. PROPERTIES	V-1 .514e-08.89																																																																	
CHEMISTRY	V-4 .030e-07.9																																																																	
	V-2 .011e-05.05																																																																	
	V-3 .022e-05.04																																																																	
	CaCO ₃ -86.5%																																																																	
	CaCO ₃ -29.5%																																																																	
		1	0.5				#	<p>SKELETAL, PELOIDAL GRAINSTONE, SKELETAL PELOIDAL PACKSTONE, COARSE-GRAINED CRINOIDAL CALCARENITE, RECRYSTALLIZED LIMESTONE WITH CLAY AND CALCAREOUS CLAYSTONE</p> <p>Coring disturbance is minor to moderate.</p> <p>Major lithologies: Section 1, 0-18 cm: SKELETAL, PELOIDAL GRAINSTONE, very pale brown (10YR 8/4), contains mollusc fragments, crinoid ossicles and foraminifers. Section 1, 15-42 cm: SKELETAL PACKSTONE, brownish yellow (10YR 6/6), contains molluscs, crinoids and foraminifers. Fe oxide stained wavy laminations. Section 1, 42-45 cm: COARSE-GRAINED CRINOIDAL CALCARENITE, strong brown (7.5YR 4/6), Mn oxide is present in calcarenite matrix. Section 1, 30-45 cm: Shows graded bedding sequence. Section 1, 45-53 cm: PELOIDAL PACKSTONE, very pale brown (10YR 8/4), fine grained, slightly dolomitized with Mn oxide. Section 1, 53 cm through Section 3, 40 cm: RECRYSTALLIZED LIMESTONE, dark gray (N4) to CALCAREOUS CLAYSTONE, very dark gray (N3). Limestone appears to be peloidal and is moderately bioturbated. Fossils are rare. Insoluble residue analysis indicates 10-20% clay. Calcareous claystone is structureless, is faintly mottled in some areas and grades into recrystallized limestone. Large amount (20-30%) of authigenic calcite is present within claystone. Some calcite grains in claystone may be result of drilling. A distinct change in environment occurred at Section 1, 53 cm.</p> <p>SMEAR SLIDE AND THIN SECTION SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 12</td> <td>1, 24</td> <td>1, 32</td> <td>1, 39</td> <td>1, 48</td> <td>1, 52</td> <td>1, 88</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2, 76</td> <td>3, 27</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Silt</td> <td>7</td> <td>3</td> </tr> <tr> <td>Clay</td> <td>93</td> <td>97</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>1</td> <td>—</td> </tr> <tr> <td>Carbonate</td> <td>19</td> <td>27</td> </tr> <tr> <td>Clay</td> <td>54</td> <td>52</td> </tr> <tr> <td>Feldspar</td> <td>2</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>3</td> <td>2</td> </tr> <tr> <td>Glass</td> <td>1</td> <td>1</td> </tr> <tr> <td>Nannofossils</td> <td>5</td> <td>9</td> </tr> <tr> <td>Opauques</td> <td>2</td> <td>3</td> </tr> <tr> <td>Quartz</td> <td>10</td> <td>5</td> </tr> <tr> <td>Spicules</td> <td>3</td> <td>1</td> </tr> </table>		1, 12	1, 24	1, 32	1, 39	1, 48	1, 52	1, 88		D	D	D	D	D	D	D		2, 76	3, 27		D	D	Silt	7	3	Clay	93	97	Accessory minerals	1	—	Carbonate	19	27	Clay	54	52	Feldspar	2	—	Foraminifers	3	2	Glass	1	1	Nannofossils	5	9	Opauques	2	3	Quartz	10	5	Spicules	3	1
	1, 12	1, 24	1, 32	1, 39	1, 48	1, 52	1, 88																																																											
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SITE 764 HOLE A CORE 8R CORED INTERVAL 66.5-69.0 mbsf

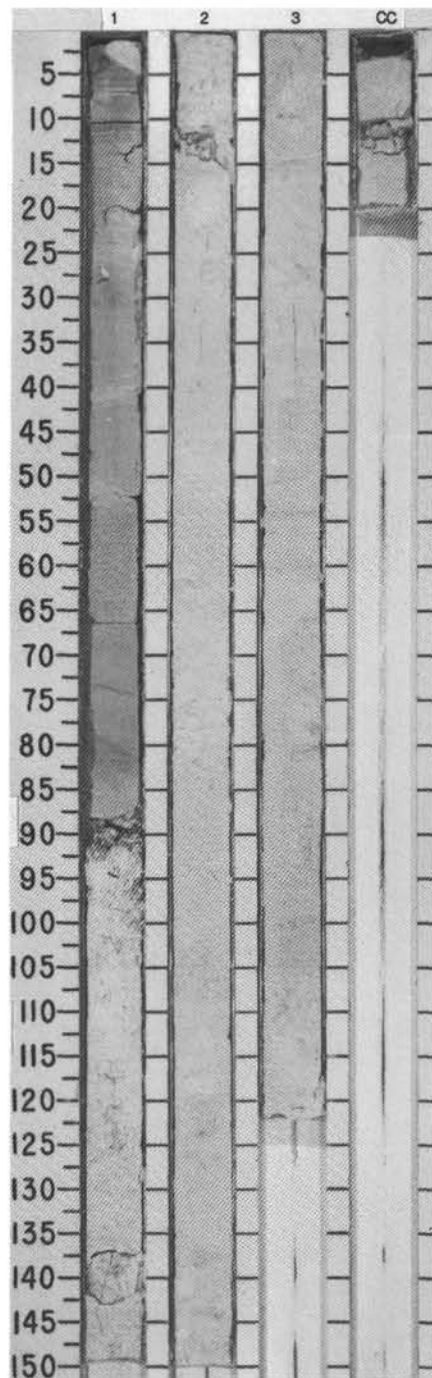
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYB. PROPERTIES	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																						
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									PALEOMAGNETICS																																																					
RHAETIAN	Barren	<i>Triassina hanikeni</i>	Upper Triassic species	Barren								RECRYSTALLIZED LIMESTONE AND CALCAREOUS CLAY-STONE The core is extensively disturbed and reworked by drilling. Major lithologies: RECRYSTALLIZED LIMESTONE, gray (7.5YR 6/0), fossiliferous and shows pelletal or peloid-like granular appearance. Fossils include benthic foraminifers, shell fragments, and echinoderms. Pellets and peloids may also be present. CALCAREOUS CLAY-STONE, dark gray (2.5YR 4/0), contains about 30% carbonate. Some spheroidal fossils and nannofossils are present. The two lithologies alternate throughout the core. Their boundaries appear to be transitional. SMEAR SLIDE AND THIN SECTION SUMMARY (%): <table border="1" style="margin-left: 20px;"> <thead> <tr> <th></th> <th>1, 60</th> <th>1, 103</th> <th>2, 25</th> <th>CC, 4</th> <th>CC, 25</th> </tr> <tr> <th></th> <th>D</th> <th>D</th> <th>D</th> <th>D</th> <th>M</th> </tr> </thead> <tbody> <tr> <td>TEXTURE:</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Clay</td> <td>100</td> <td>—</td> <td>100</td> <td>—</td> <td>—</td> </tr> <tr> <td>COMPOSITION:</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Bioclast</td> <td>—</td> <td>—</td> <td>—</td> <td>20</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>100</td> <td>—</td> <td>100</td> <td>—</td> <td>—</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>—</td> <td>—</td> <td>50</td> <td>—</td> </tr> <tr> <td>Micrite</td> <td>—</td> <td>—</td> <td>—</td> <td>30</td> <td>—</td> </tr> </tbody> </table>		1, 60	1, 103	2, 25	CC, 4	CC, 25		D	D	D	D	M	TEXTURE:						Clay	100	—	100	—	—	COMPOSITION:						Bioclast	—	—	—	20	—	Clay	100	—	100	—	—	Dolomite	—	—	—	50	—	Micrite	—	—	—	30	—
	1, 60	1, 103	2, 25	CC, 4	CC, 25																																																													
	D	D	D	D	M																																																													
TEXTURE:																																																																		
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Bioclast	—	—	—	20	—																																																													
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Dolomite	—	—	—	50	—																																																													
Micrite	—	—	—	30	—																																																													
	Barren			Barren																																																														
	R/P	<i>A. reducta</i>																																																																
					Vg .206	0.17, 8																																																												
						5.2, 3.4																																																												
						CaCO ₃ 84.2%																																																												



CORE 764B-1R NO RECOVERY

SITE 764 HOLE B CORE 2R CORED INTERVAL 40.0-45.0 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																						
UPPER MAESTRICHIAN											<p>NANNOFOSSIL CHALK WITH FORAMINIFERS AND CLAY AND NANNOFOSSIL CHALK WITH CLAY</p> <p>The core is disturbed by drilling which has softened the chalk into ooze.</p> <p>Major lithologies: NANNOFOSSIL CHALK with FORAMINIFERS and CLAY, light yellowish brown (10YR 6/4), very pale brown (10YR 8/4 to 10YR 7/4), laminated in Section 1, 0-85 cm, and NANNOFOSSIL CHALK with CLAY, white (10YR 8/2). Moderately bioturbated. Between Section 1, 87 and 90 cm is a void with gravels and Mn oxide crusted fragments.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 11</td> <td>1, 63</td> <td>1, 120</td> <td>2, 72</td> <td>3, 72</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Bioclast</td> <td>1</td> <td>—</td> <td>—</td> <td>1</td> <td>1</td> </tr> <tr> <td>Clay</td> <td>15</td> <td>15</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>Foraminifers</td> <td>7</td> <td>10</td> <td>1</td> <td>5</td> <td>3</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>76</td> <td>75</td> <td>79</td> <td>74</td> <td>76</td> </tr> <tr> <td>Plant</td> <td>1</td> <td>Tr</td> <td>—</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Pyrite</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> </table>		1, 11	1, 63	1, 120	2, 72	3, 72	D	D	D	D	D	D	Bioclast	1	—	—	1	1	Clay	15	15	20	20	20	Foraminifers	7	10	1	5	3	Mica	Tr	Tr	—	—	—	Nannofossils	76	75	79	74	76	Plant	1	Tr	—	Tr	Tr	Pyrite	—	—	—	—	Tr
	1, 11	1, 63	1, 120	2, 72	3, 72																																																												
D	D	D	D	D	D																																																												
Bioclast	1	—	—	1	1																																																												
Clay	15	15	20	20	20																																																												
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Plant	1	Tr	—	Tr	Tr																																																												
Pyrite	—	—	—	—	Tr																																																												
A/M	MAESTRICHIAN					0.5																																																											
A/G	CC25	A/G	V-1.89 ^{0.51, 4.0} P-1.92	CaCO ₃ -90.0%	1	1.0																																																											
Barren	(NP19 - NP20)	(UPPER EOCENE)	V-1.57 ^{0.54, 7.0} P-1.78	CaCO ₃ -89.8%	2																																																												
Barren					3																																																												
					CC																																																												

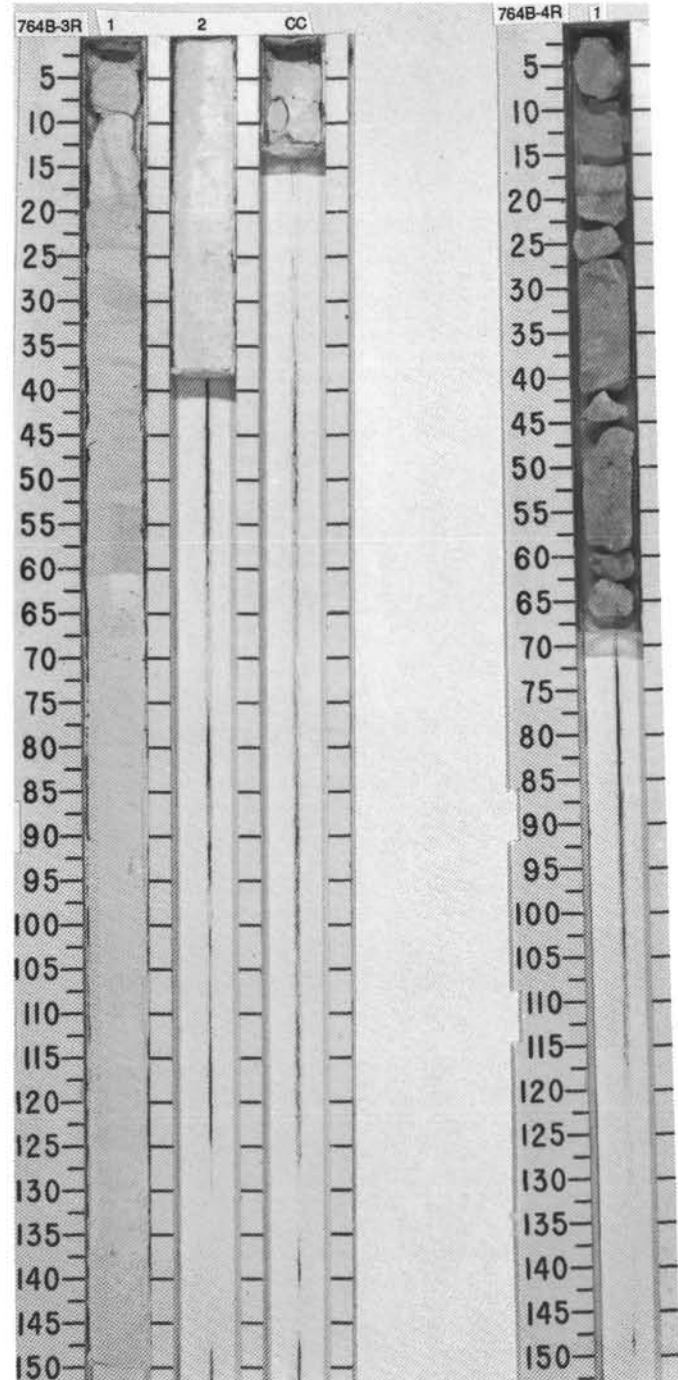


SITE 764 HOLE B CORE 3R CORED INTERVAL 45.0-50.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES SAMPLES	LITHOLOGIC DESCRIPTION																																																							
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALYNOPOPHIDS																																																														
LOWER CAMPANIAN	A/G	LOWER CAMPANIAN - SANTONIAN										<p>NANNOFOSSIL CHALK AND NANNOFOSSIL CHALK WITH FORAMINIFERS</p> <p>The core is disturbed by drilling which has softened the chalk into ooze below Section 1, 60 cm.</p> <p>Major lithologies: NANNOFOSSIL CHALK grading to NANNOFOSSIL CHALK with FORAMINIFERS, white (10YR 8/2) to very pale brown (10YR 7/3). Contains some clay and traces of quartz, bioclasts and pyrite. Thin to medium bedded, with no evidence of bioturbation in Section 1, 18-60 cm. Inoceramus prisms are present. Bedding planes are distinguished by gray (10YR 6/1) pyritic partings in places. Rare burrows are also pyritic; one vertical burrow is 4 mm in diameter.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1,21</td> <td>1,55</td> <td>1,70</td> <td>2,25</td> </tr> <tr> <td>D</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Carbonate particles</td> <td>2</td> <td>2</td> <td>—</td> <td>3</td> </tr> <tr> <td>Clay</td> <td>3</td> <td>2</td> <td>2</td> <td>1</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>—</td> <td>1</td> <td>—</td> </tr> <tr> <td>Fish</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>7</td> <td>17</td> <td>7</td> <td>12</td> </tr> <tr> <td>Nannofossils</td> <td>86</td> <td>77</td> <td>87</td> <td>80</td> </tr> <tr> <td>Opales</td> <td>1</td> <td>1</td> <td>3</td> <td>1</td> </tr> <tr> <td>Quartz</td> <td>1</td> <td>1</td> <td>—</td> <td>3</td> </tr> <tr> <td>Spicules</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> </table>		1,21	1,55	1,70	2,25	D					Carbonate particles	2	2	—	3	Clay	3	2	2	1	Dolomite	—	—	1	—	Fish	—	—	Tr	—	Foraminifers	7	17	7	12	Nannofossils	86	77	87	80	Opales	1	1	3	1	Quartz	1	1	—	3	Spicules	Tr	—	—	—
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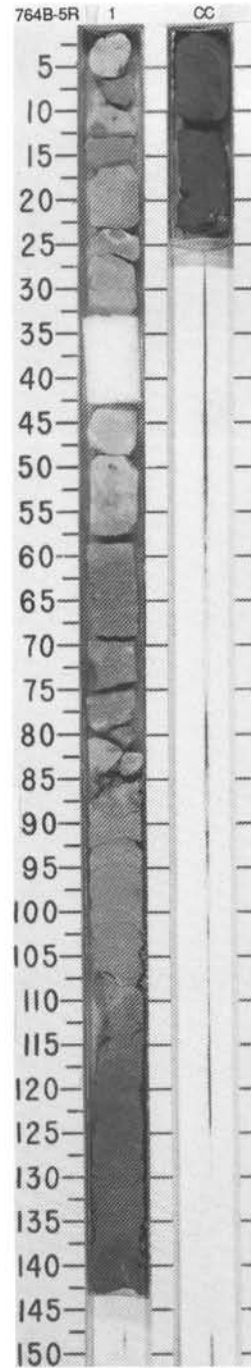
SITE 764 HOLE B CORE 4R CORED INTERVAL 50.0-55.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES SAMPLES	LITHOLOGIC DESCRIPTION																
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALYNOPOPHIDS																							
TRIASSIC ?												<p>CHALKY CARBONATE MUDSTONE AND FOSSILIFEROUS WACKESTONE</p> <p>Core consists of 2 to 13 cm long carbonate fragments.</p> <p>Major lithologies: Section 1, 1-25 cm: CHALKY CARBONATE MUDSTONE, white (10YR 8/2), with limonitic concretionary laminations. Section 1, 25-46 cm: Moderately FOSSILIFEROUS WACKESTONE, white (10YR 8/2). Fossils include molluscs, foraminifers, and minor chalky intraclasts. Section 1, 46-70 cm: Highly FOSSILIFEROUS WACKESTONE, very pale brown (10YR 8/4) with abundant molluscs including whole pelecypod at Section 1, 67 cm, crinoids and foraminifer, (Triasina). Yellowish (10YR 7/4) and pinkish (5YR 8/3) mottles and limonitic grains dispersed throughout.</p> <p>THIN SECTION SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1,2</td> <td>1,17</td> <td>1,38</td> </tr> <tr> <td>D</td> <td></td> <td></td> <td></td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Bioclast</td> <td>—</td> <td>10</td> <td>—</td> </tr> <tr> <td>Micrite</td> <td>—</td> <td>90</td> <td>—</td> </tr> </table>		1,2	1,17	1,38	D				Bioclast	—	10	—	Micrite	—	90	—
	1,2	1,17	1,38																									
D																												
Bioclast	—	10	—																									
Micrite	—	90	—																									
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SITE 764 HOLE B CORE 5R CORED INTERVAL 55.0-60.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																							
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																																																														
RHAETIAN	Barren	Upper Triassic species	Barren	R/P	V-s. 310	1					<p>WACKESTONE, PACKSTONE, GRAINSTONE, MUDSTONE, AND CALCAREOUS CLAYSTONE</p> <p>Carbonate rocks are in 2-12 cm long fragments and the calcareous claystone is highly disturbed by drilling.</p> <p>Major lithologies: The upper 87 cm of the core contains biogenic wackestones, packstones, grainstones, and mudstones. Section 1, 0-50 cm, WACKESTONE with crinoids, molluscs, and foraminifers, very pale brown (10YR 8/4). Yellow limonitic stained grains vuggy in isolated areas, manganese oxide stains (black) scattered throughout. The topmost piece has yellow (limonitic) clay infilling a cavity. Section 1, 50-67 cm, wavy laminated WACKESTONE to PACKSTONE, strong brown (7.5YR 4/6). Fe Oxide laminations, crinoids, molluscs. Laminations may be dissolution structures. Section 3, 67-80 cm, FOSSILIFEROUS GRAINSTONE, pale brown (10YR 8/4) to strong brown (7.5YR 4/6), with crinoids, molluscs, and minor intraclasts. Dark zones of manganese oxide. Section 1, 80-87 cm, CLAYSTONE, very pale brown (10YR 8/4), mixed with disturbed claystone beneath. Remainder of Section 1 (87-150 cm) and core catcher contain CALCAREOUS CLAYSTONE with varying colors: mixed yellow (10YR 7/8) and light gray (10YR 7/1), 87-110 cm; mixed dark gray (10YR 4/1) and yellow (10YR 7/8), 110-137 cm; and very dark gray (10YR 3/1), 137-150 cm and core catcher.</p> <p>SMEAR SLIDE AND THIN SECTION SUMMARY (%):</p> <table border="1"> <tr> <td>1, 1</td> <td>1, 9</td> <td>1, 34</td> <td>1, 43</td> <td>1, 57</td> <td>1, 61</td> <td>1, 82</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>M</td> </tr> </table> <p>SMEAR SLIDE AND THIN SECTION SUMMARY (%):</p> <table border="1"> <tr> <td>1, 92</td> <td>1, 105</td> <td>1, 120</td> <td>CC, 15</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Silt</td> <td>5</td> <td>—</td> <td>—</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>95</td> <td>100</td> <td>100</td> <td>95</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Calcite</td> <td>12</td> <td>5</td> <td>5</td> <td>15</td> </tr> <tr> <td>Carbonate</td> <td>3</td> <td>—</td> <td>5</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>76</td> <td>85</td> <td>81</td> <td>64</td> </tr> <tr> <td>Fe oxide</td> <td>5</td> <td>5</td> <td>—</td> <td>—</td> </tr> <tr> <td>Fish</td> <td>Tr</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>2</td> <td>4</td> <td>2</td> <td>5</td> </tr> <tr> <td>Nannofossils</td> <td>—</td> <td>—</td> <td>5</td> <td>7</td> </tr> <tr> <td>Plant</td> <td>—</td> <td>1</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Pyrite</td> <td>—</td> <td>—</td> <td>2</td> <td>4</td> </tr> <tr> <td>Quartz</td> <td>2</td> <td>—</td> <td>—</td> <td>—</td> </tr> </table>	1, 1	1, 9	1, 34	1, 43	1, 57	1, 61	1, 82	D	D	D	D	D	D	M	1, 92	1, 105	1, 120	CC, 15	D	D	D	D	Silt	5	—	—	5	Clay	95	100	100	95	Calcite	12	5	5	15	Carbonate	3	—	5	5	Clay	76	85	81	64	Fe oxide	5	5	—	—	Fish	Tr	Tr	—	—	Foraminifers	—	Tr	—	—	Mica	2	4	2	5	Nannofossils	—	—	5	7	Plant	—	1	—	Tr	Pyrite	—	—	2	4	Quartz	2	—	—	—
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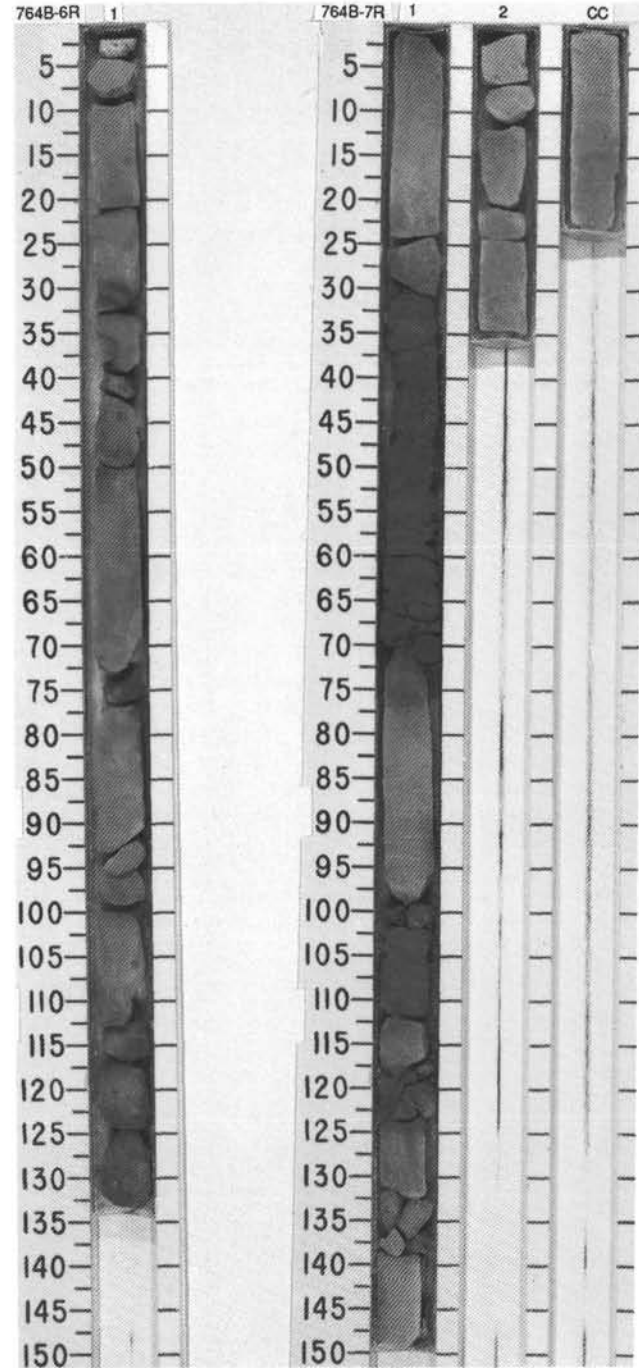


SITE 764 HOLE B CORE 6R CORED INTERVAL 60.0-65.0 mbsf

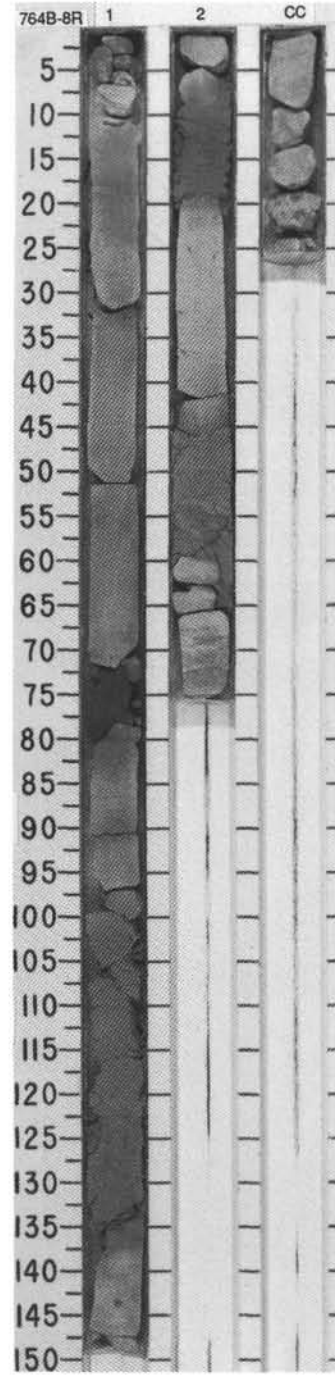
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALYNOMORPHS									
RHAETIAN	Barren	Upper Triassic species				V-3.048-17.1 2.48			1	0.5 1.0		#	<p>RECRYSTALLIZED CLAYEY LIMESTONE</p> <p>Drilling disturbance is small.</p> <p>Major lithology: RECRYSTALLIZED CLAYEY LIMESTONE, gray (7.5YR 5/0) to dark gray (7.5YR, 4/0), moderately bioturbated and includes some pellets. Minor lithology: Carbonate wackestone, white (10YR 8/2), Section 1, 0-3 cm, includes many foraminifers, some molluscan shells, and crinoid fragments. This carbonate wackestone may be downhole contamination, e.g. top of Cores.</p> <p>THIN SECTION SUMMARY (%):</p> <p>1, 20 D</p>	

SITE 764 HOLE B CORE 7R CORED INTERVAL 65.0-70.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALYNOMORPHS									
RHAETIAN	Barren	Upper Triassic species	RHAETIAN			V-3.200-15.3 2.48			1	0.5 1.0		*	<p>PELOIDAL PACKSTONE/WACKESTONE, AND CALCAREOUS CLAYSTONE</p> <p>Moderate drilling disturbance, no bedding is visible.</p> <p>Major lithologies: PELOIDAL PACKSTONE/WACKESTONE, gray (10YR 5/1). Contains abundant Chondrites-type burrows and the associated fecal pellets probably make up the bulk of the peloids. Calianassa-like burrows, 1 cm in diameter, cut the rock at low angles in Section 2 and the core catcher. Recrystallized bivalve shells and calcareous algae occur in Section 1, 0-23 cm, and a few shell fragments occur in Sections 2 and the core catcher. CALCAREOUS CLAYSTONE, dark gray (10YR 4/1). Grades to clayey peloidal packstone/wackestone. Contains elongate calcite crystals, which may be recrystallized bioclasts, and some pyrite, nannofossils, and mica. There are abundant Chondrites-like burrows and associated fecal pellets.</p> <p>THIN SECTION SUMMARY (%):</p> <p>1, 33 1, 109 D D</p> <p>COMPOSITION:</p> <p>Biotite — Tr Calcite 60 70 Clay 36 27 Mica — 1 Nannofossils — 1 Plant — 1 Pyrite 2 2</p>	



TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																									
	FORAMINIFERS	NAIINOFOSSILS	RADIOLARIANS	DIATOMS																																			
RHAETIAN	<i>Triasina hantkeni</i>													<p>SKELETAL PELOIDAL PACKSTONE/WACKSTONE, CLAYSTONE, AND CLAYSTONE WITH SILT</p> <p>Major lithologies: SKELETAL PELOIDAL PACKSTONE/WACKSTONE. The core consists of alternating a. highly bioturbated, fine-grained SKELETAL PELOIDAL PACKSTONE/WACKSTONE, dark gray (5Y 4/1, N4) to light yellowish brown (2.5Y 6/4), with local variegated reddish yellow (7.5YR 6/6) and dark gray (7.5YR 4/0). The limestone locally has strong brown (7.5YR 5/6 and 7.5YR 4/6) speckles and brownish shades of Fe oxides. A large, (1 cm) Fe oxide nodule is present in the limestone at 143 cm. The limestone is slightly recrystallized, and b. CLAYSTONE and CLAYSTONE with SILT, dark gray (N4) to yellow (2.5Y 7/6) and light yellowish brown (2.5YR 6/4), with olive yellow (2.5Y 6/8), limonite-stained blebs. Silt consists of calcite fragments, quartz and mica.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table style="margin-left: 40px;"> <tr> <td>1, 120</td> <td>2, 12</td> </tr> <tr> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table style="margin-left: 40px;"> <tr> <td>Bioclast</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Calcite</td> <td>10</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>80</td> <td>96</td> </tr> <tr> <td>Fish</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Inorganic calcite</td> <td>—</td> <td>2</td> </tr> <tr> <td>Mica</td> <td>5</td> <td>2</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>Tr</td> </tr> </table>	1, 120	2, 12	D	D	Bioclast	—	Tr	Calcite	10	—	Clay	80	96	Fish	—	Tr	Inorganic calcite	—	2	Mica	5	2	Quartz	5	Tr
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Barren					V-3.21 $\frac{0.15.3}{0.22.48}$	V-3.31 $\frac{0.12.7}{0.22.52}$	1	0.5		X																													
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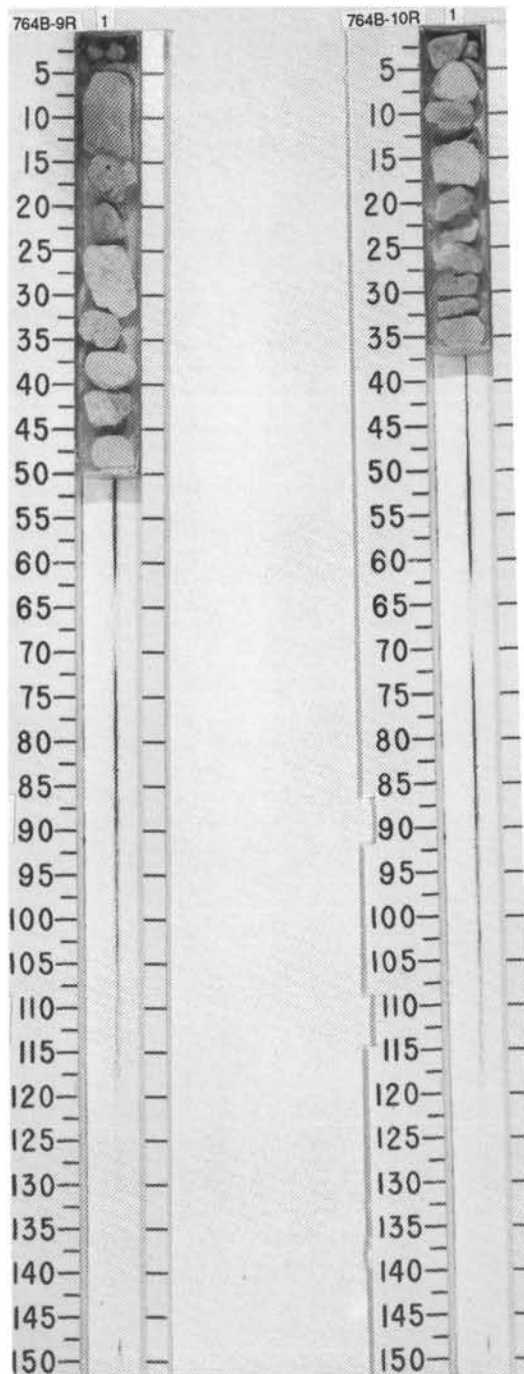


SITE 764 HOLE B CORE 9R CORED INTERVAL 79.5-89.0 mbsf

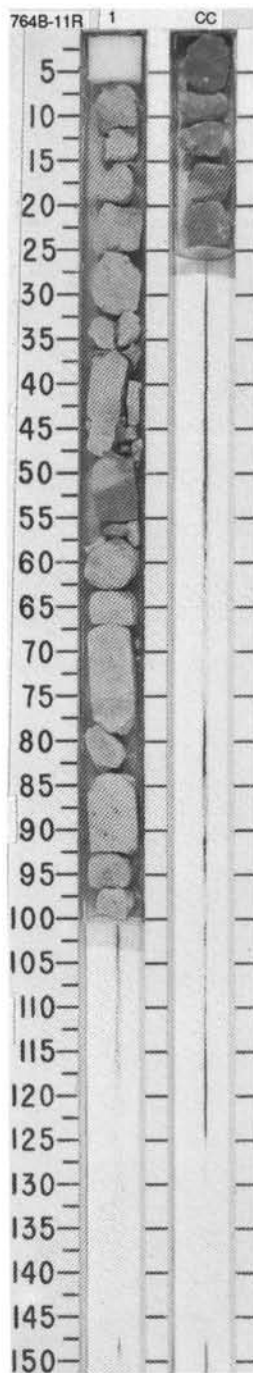
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																							
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RHAETIAN	Barren	Barren	Barren	Barren	Barren		$V_4.141$ $\frac{0.171}{2.56}$ $CaCO_3=96.8\%$	1					<p>CARBONATE WACKSTONE TO PACKSTONE AND PACKSTONE TO GRAINSTONE</p> <p>Core is highly fractured and consists of around 11 individual fragments averaging 3 cm long.</p> <p>Major lithologies: CARBONATE WACKSTONE TO PACKSTONE, very pale brown (10YR 8/3), poorly sorted, contains common molluscan fragments (bivalves, pelecypods, gastropods, etc.) with small amounts of benthic foraminifers, corals, and echinoderms and is recrystallized in part. Molluscan fragments are sometimes represented by calcite casts or dissolved away forming moldic porosities. CARBONATE PACKSTONE TO GRAINSTONE, very pale brown (10YR 8/3), dominantly peloids(?), some coated grains, and oolites. Peloids may have been produced from micritization of fossil fragments or may be, in part, fecal pellets. Besides peloids, molluscs, benthic foraminifers, and echinoderms are also observed. One small pebble size coral fragment is found among the limestone pieces brecciated by drilling.</p> <p>THIN SECTION SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 11</td> <td>1, 27</td> <td>1, 37</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Bioclast</td> <td>—</td> <td>10</td> <td>10</td> </tr> <tr> <td>Foraminifers</td> <td>—</td> <td>Tr</td> <td>20</td> </tr> <tr> <td>Micrite</td> <td>—</td> <td>55</td> <td>30</td> </tr> <tr> <td>Pellets</td> <td>—</td> <td>35</td> <td>40</td> </tr> </table>		1, 11	1, 27	1, 37		D	D	D	Bioclast	—	10	10	Foraminifers	—	Tr	20	Micrite	—	55	30	Pellets	—	35	40
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SITE 764 HOLE B CORE 10R CORED INTERVAL 89.0-98.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																															
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RHAETIAN	Barren	Barren	Barren	Barren	Barren			1					<p>PELLETAL GRAINSTONE</p> <p>Core is highly fractured and consists of around 12 individual fragments averaging 3 cm long.</p> <p>Major lithology: PELLETAL GRAINSTONE, very pale brown (10YR 8/3). Most pellets appear to be fecal in origin. Other component grains include molluscs, benthic foraminifers, fossil casts, echinoderms, and corals. One section contains a large (1-2 cm wide) burrow. Burrows are filled with relatively coarse material which includes benthic foraminifers, algae, and peloids.</p> <p>THIN SECTION SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 4</td> <td>1, 10</td> <td>1, 32</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Bioclast</td> <td>20</td> <td>30</td> <td>5</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>5</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>10</td> <td>—</td> <td>1</td> </tr> <tr> <td>Micrite</td> <td>40</td> <td>35</td> <td>29</td> </tr> <tr> <td>Pellets</td> <td>30</td> <td>25</td> <td>55</td> </tr> <tr> <td>Spar cement</td> <td>—</td> <td>—</td> <td>10</td> </tr> </table>		1, 4	1, 10	1, 32		D	D	D	Bioclast	20	30	5	Dolomite	—	5	—	Foraminifers	10	—	1	Micrite	40	35	29	Pellets	30	25	55	Spar cement	—	—	10
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TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																						
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RHAETIAN	Barren	Barren	Barren	Barren		1-2.86 2.27-2.48 CaCO ₃ 89.8%	1	CC						<p>FOLLILIFEROUS, SKELETAL CALCAREOUS PACKSTONE</p> <p>Core is highly fractured and consists of 2-10 cm long, unoriented pieces.</p> <p>Major lithologies: FOSSILIFEROUS, SKELETAL CALCAREOUS PACKSTONE to minor wackestone, pale yellow (2.5Y 8/4), slightly limonite-stained. Fossils and skeletal debris are included in a fine-grained pelletal micrite matrix and consist of branching hermatypic corals, echinoderm ossicles, abundant molluscs, and numerous brachiopods. At Section 1, 84-92 cm, a branching coral bafflestone, with skeletal fossiliferous wackestone matrix is present. A few whole shells of brachiopods were observed in blocks of the working hall.</p> <p>Minor lithology: Clayey fossiliferous limestone (packstone and patches of wackestone), light olive brown (2.5Y 5/6), bioturbated, in Section 1, 48-54 cm. In Section CC, the clayey fossiliferous limestone is slightly dolomitized with variegated dark yellowish brown, with patches, mottles and blebs of brownish yellow (10YR 6/6) limonitic stain. Typical biota include Rhynchonellid brachiopods.</p> <p>THIN SECTION SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1.4</td> <td>1.44</td> <td>1.74</td> <td>1.90</td> <td>CC, 3</td> </tr> <tr> <td></td> <td>D</td> <td>M</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Bioclast</td> <td>35</td> <td>20</td> <td>5</td> <td>—</td> <td>1</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>99</td> </tr> <tr> <td>Foraminifers</td> <td>10</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Micrite</td> <td>35</td> <td>40</td> <td>55</td> <td>—</td> <td>—</td> </tr> <tr> <td>Microsparite</td> <td>—</td> <td>40</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Pellets</td> <td>20</td> <td>—</td> <td>30</td> <td>—</td> <td>—</td> </tr> <tr> <td>Spicules</td> <td>—</td> <td>—</td> <td>10</td> <td>—</td> <td>—</td> </tr> </table>		1.4	1.44	1.74	1.90	CC, 3		D	M	D	D	D	Bioclast	35	20	5	—	1	Dolomite	—	—	—	—	99	Foraminifers	10	—	Tr	—	—	Micrite	35	40	55	—	—	Microsparite	—	40	—	—	—	Pellets	20	—	30	—	—	Spicules	—	—	10	—	—
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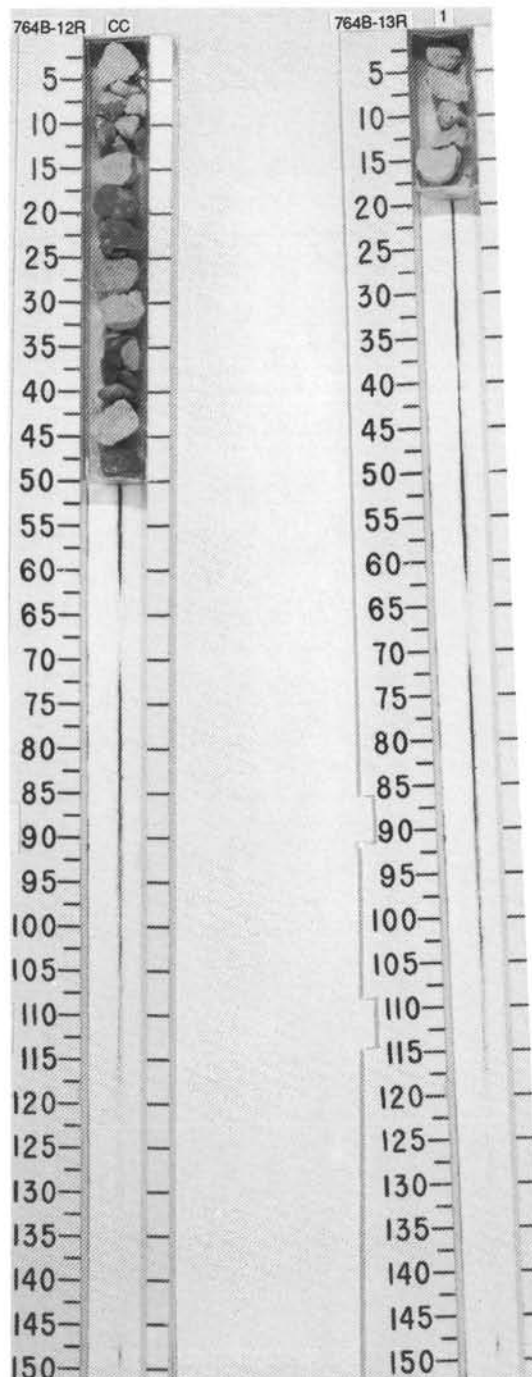


SITE 764 HOLE B CORE 12R CORED INTERVAL 108.0-117.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																	
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																										
RHAETIAN	RHAETIAN	<i>Trisina haukeni</i>						CC					<p>CORAL-MOLLUSC PACKSTONE, FINELY CRYSTALLINE DOLOMITE, AND MOLLUSC WACKESTONE</p> <p>Core is highly fractured and consists of many 1-3 cm long individual fragments.</p> <p>Major lithologies: CORAL-MOLLUSC PACKSTONE, very pale brown (10YR 8/3), 50% of core. Highly fractured, contains mainly corals and molluscs, oncolites, bivalves represented by calcite casts, algae encrusting corals, and echinoderm fragments. FINELY CRYSTALLINE DOLOMITE, brownish yellow (10YR 6/6), 30% of core. Some fossil ghosts remain (probably mollusc). Intercrystalline cavities are present. MOLLUSC WACKESTONE, pale brown (10YR 8/3), 20% of core, contains benthonic foraminifers, echinoderms, dominated by molluscs, has moldic cavities; molluscs present as calcite casts.</p> <p>THIN SECTION SUMMARY (%):</p> <table border="1"> <tr> <td>1, 2</td> <td>1, 10</td> <td>1, 20</td> <td>1, 43</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>Bioclast</td> <td>—</td> <td>—</td> <td>75</td> <td>60</td> </tr> <tr> <td>Foraminifers</td> <td>—</td> <td>—</td> <td>—</td> <td>2</td> </tr> <tr> <td>Intraclasts</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Micrite</td> <td>—</td> <td>25</td> <td>—</td> <td>—</td> </tr> <tr> <td>Spar cement</td> <td>—</td> <td>—</td> <td>—</td> <td>38</td> </tr> </table>	1, 2	1, 10	1, 20	1, 43	D	D	D	D	Bioclast	—	—	75	60	Foraminifers	—	—	—	2	Intraclasts	—	—	—	Tr	Micrite	—	25	—	—	Spar cement	—	—	—	38
1, 2	1, 10	1, 20	1, 43																																											
D	D	D	D																																											
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Micrite	—	25	—	—																																										
Spar cement	—	—	—	38																																										
Barren	Barren	Barren	Barren																																											

SITE 764 HOLE B CORE 13R CORED INTERVAL 117.5-127.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS													
RHAETIAN								1					<p>SKELETAL, FOSSILIFEROUS GRAINSTONE</p> <p>Core is highly fragmented by drilling.</p> <p>Major lithology: SKELETAL, FOSSILIFEROUS GRAINSTONE, a few unoriented and rotated white (7.5YR 8/2) pieces, highly porous with ample primary cavities up to a few mm across. Fossils and skeletal debris consist of various types of mollusc shells, benthic foraminifers, hermatypic scleractinian corals, green algae debris. At 0-4 cm is a large fragment of a scleractinian, hermatypic coral head. Given the abundance of hermatypic corals in the sediment we interpret this as a coral framestone, with abundant grainstone matrix.</p> <p>THIN SECTION SUMMARY (%):</p> <table border="1"> <tr> <td>1, 3</td> <td>1, 14</td> </tr> <tr> <td>D</td> <td>D</td> </tr> </table>	1, 3	1, 14	D	D
1, 3	1, 14																
D	D																
Barren	Barren	Barren	Barren														

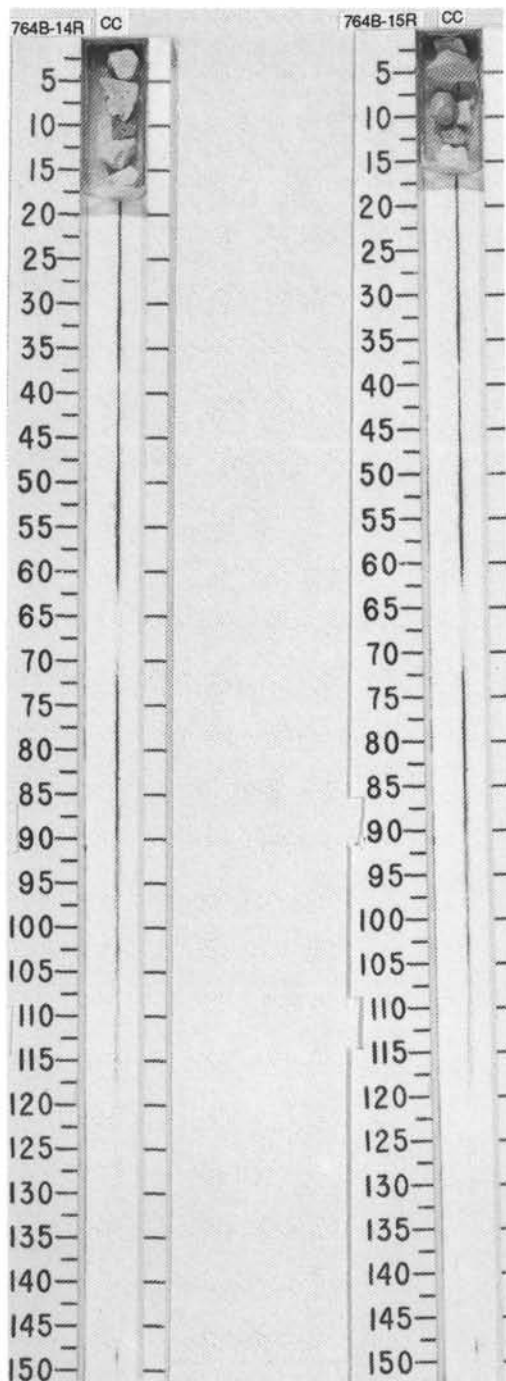


SITE 764 HOLE B CORE 14R CORED INTERVAL 127.0-136.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
RHAETIAN	Barren	Barren	Barren	Barren	V-4.862 P-2.83	CaCO ₃ -98.8%	CC						<p>SKELETAL, FOSSILIFEROUS GRAINSTONE</p> <p>The core is highly fragmented by drilling.</p> <p>Major lithology: SKELETAL, FOSSILIFEROUS GRAINSTONE, white (7.5YR 8/2), highly porous with ample primary cavities up to a few mm across. Fossils and skeletal debris consist of various types of mollusc shells, including pelecypods and gastropods, benthic foraminifers, hermatypic scleractinian corals, green algae debris, bryozoans and/or hydrozoans. At 10-12 cm is a large fragment of scleractinian, hermatypic coral head. Given the abundance of hermatypic corals in the sediment we interpret this as a coral framestone, with abundant grainstone matrix.</p> <p>THIN SECTION SUMMARY (%):</p> <p>CC, 2 D</p>

SITE 764 HOLE B CORE 15R CORED INTERVAL 136.5-146.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
RHAETIAN	Barren	Barren	Barren	Barren	V-4.019 P-2.83	CaCO ₃ -1.00%	CC						<p>GRAINSTONE</p> <p>The core is highly fragmented by drilling.</p> <p>Major lithology: GRAINSTONE with minor packstone, brownish yellow (10YR 6/8 and 10YR 7/6) and white (lighter than 10YR 8/1) showing high porosity. Components are mainly broken fossil fragments, more or less sorted. One piece shows an erosional contact with overlying coarse elements (bioclasts and possible lithoclasts). Some brownish yellow pieces may show cavities infilled with the whitish sediment.</p> <p>Interpretation: These deposits correspond to high energy carbonate beach sands with possible early lithification.</p> <p>THIN SECTION SUMMARY (%):</p> <p>CC, 12 D</p>



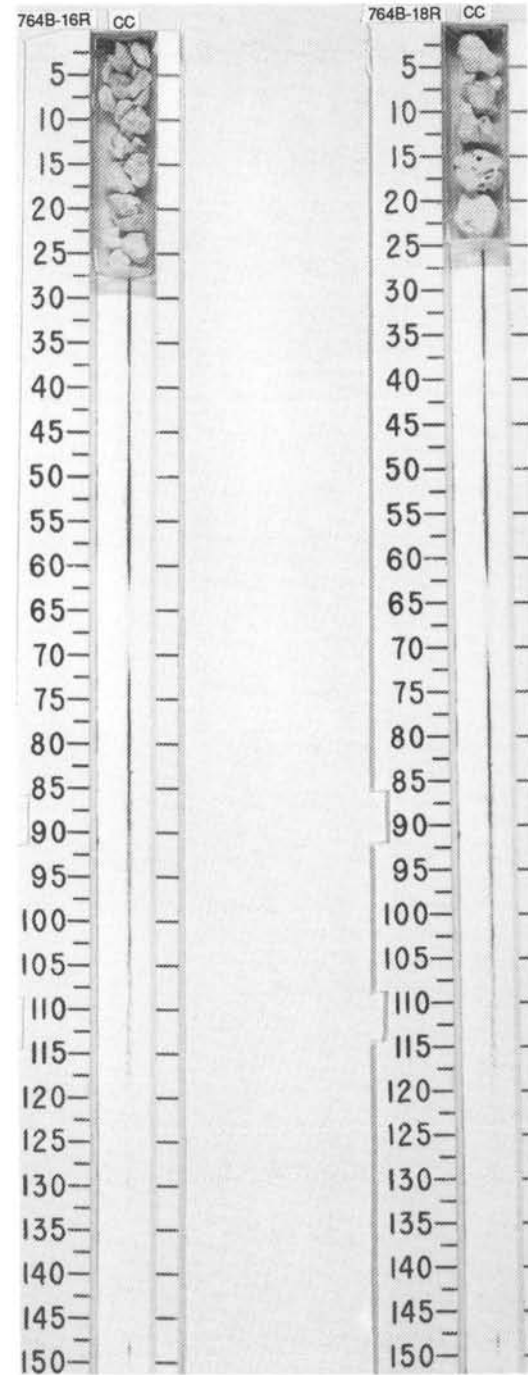
SITE 764 HOLE B CORE 16R CORED INTERVAL 146.0-155.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS								
RHAETIAN	Barren	Barren	Barren	Barren		V _{0.16} 0.31.5 2.32	CC CaCO ₃ 97.9%				#	<p>BIOCLASTIC WACKESTONE AND PELOID-BIOCLASTIC PACKSTONE TO GRAINSTONE</p> <p>Core contains a mixture of small drilling fragments.</p> <p>Major lithologies: BIOCLASTIC WACKESTONE, pale yellow (5Y 8/3) to very pale brown (10YR 7/4), contains common molluscs and some other fossil fragments not recognizable with hand lens. PELOID-BIOCLASTIC PACKSTONE to GRAINSTONE, very pale brown (5Y 8/3) and white (10YR 8/2), with common peloids and bioclasts such as molluscs and echinoderms. Common moldic and vuggy porosities.</p> <p>THIN SECTION SUMMARY (%):</p> <p style="text-align: right;">CC. 17 D</p>

CORE 764B-17R NO RECOVERY

SITE 764 HOLE B CORE 18R CORED INTERVAL 160.5-165.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS								
RHAETIAN	Barren	Upper Triassic species	Barren	Barren		V _{4.22}	CC				#	<p>PACKSTONE TO GRAINSTONE</p> <p>Core consists of small drilling fragments.</p> <p>Major lithology: PACKSTONE to GRAINSTONE, changing from white (10YR 8/2) to very pale brown (10YR 8/4), rich in pellets, molluscs, and corals. Pellets may not be, as a whole, true fecal pellets, but may be micritized grains in part (peloids).</p> <p>THIN SECTION SUMMARY (%):</p> <p style="text-align: right;">CC. 14 D</p> <p>COMPOSITION:</p> <p style="text-align: right;">Bioclast 75 Micrite 25</p>

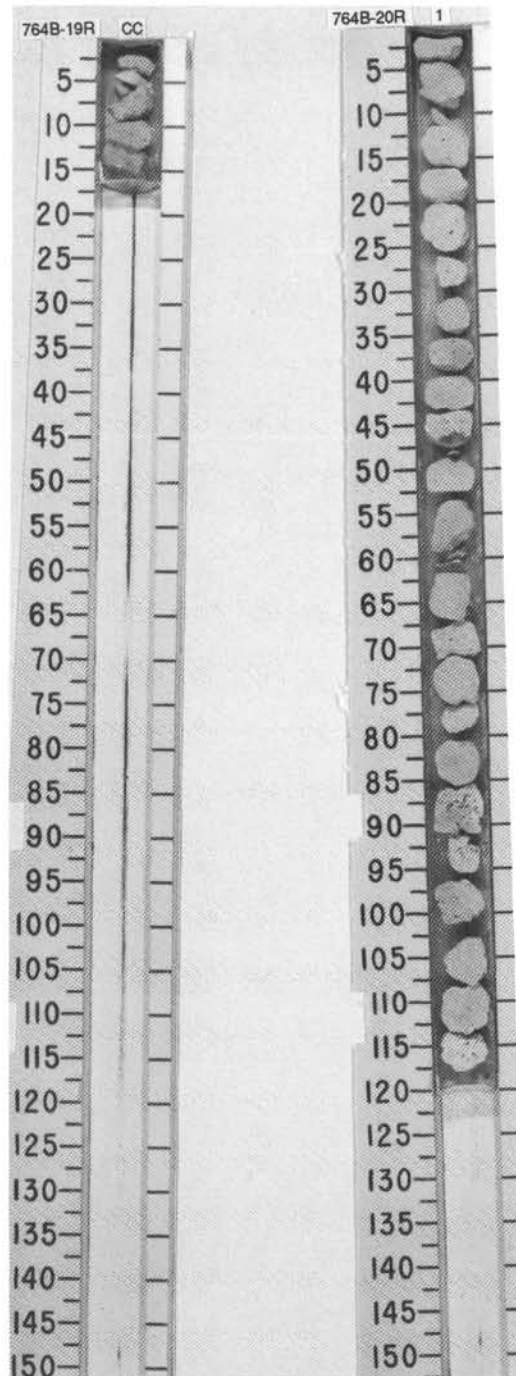


SITE 764 HOLE B CORE 19R CORED INTERVAL 165.5-175.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALYNOMORPHS										
RHAETIAN	Barren	Barren	Barren	Barren	Barren	V-4.114			CC				#	GRAINSTONE Core consists of small drilling fragments. Major lithology: GRAINSTONE, pinkish white (5YR 8/2) and partly pink (5YR 8/3) in Section 1, 0-5 cm, and very pale brown (10YR 8/4-8/6) in Section 1, 5-17 cm. Contains many foraminifers and some crinoid fragments, peloids, pelecypod fragments, and minor gastropods, brachiopods, and corals. Small vugs are typically observed throughout the core, suggesting high energy environments such as reef beach and tidal flat. Pinkish color may indicate Mn carbonate (rhodochrosite) and brownish colors may indicate oxidation conditions. THIN SECTION SUMMARY (%): 1, 2 D	

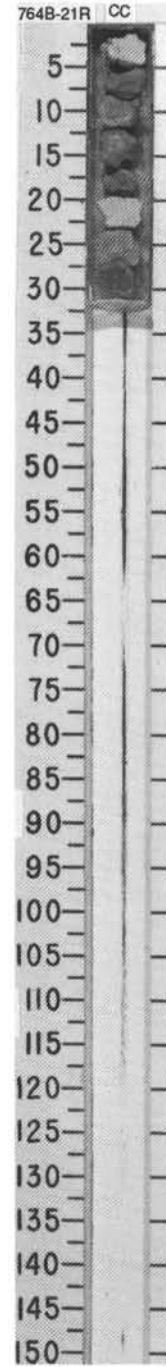
SITE 764 HOLE B CORE 20R CORED INTERVAL 175.0-184.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALYNOMORPHS										
RHAETIAN	Barren	Upper Triassic species	UPPER NORIAN / RHAETIAN		Barren	V-4.09 V-4.23.7 V-4.24.3 CaCO ₃ 98.3%							# # # #	SKELETAL GRAINSTONE AND SKELETAL CORAL BOUNDSTONE Core consists of small drilling fragments. Major lithologies: SKELETAL GRAINSTONE, white (10YR 8/2), 0-86 cm, peloidal, vuggy, limonitic staining. Molluscs, echinoderm fragments, foraminifers present with possible brachiopods. Many cavities and vugs filled with sawtooth calcite. Pale pink mottles, 0-32 cm, may be rhodochrosite. Robust SKELETAL CORAL BOUNDSTONE, white (10YR 8/2), 86-120 cm (pieces 20-25), vermiform texture. Crinoids, mollusc, Brachiopods, ostracods(?), and foraminifers present. Coralline structure is massive with corallites filled in with crystalline calcite after aragonite. Interpretation: Massive reef environment. THIN SECTION SUMMARY (%): 1, 15 1, 37 1, 70 1, 94 1, 106 D D D D D COMPOSITION: Bioclast — 50 — — — Micrite — 50 — — —	



SITE 764 HOLE B CORE 21R CORED INTERVAL 184.5-194.0 mbsf

TIME - ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																							
	FORAMINIFERS	NANNOFOSILS	RADIOLARIANS	DIATOMS																																															
RHAETIAN	Barren	Barren	Barren	Barren	V _{0.05} ●		CC				<p>CORAL WACKESTONE, CALCAREOUS MUDSTONE, DOLOMITIZED LIMESTONE, AND BIOCLASTIC PACKSTONE</p> <p>Core consists of small drilling fragments.</p> <p>Major lithologies: CORAL WACKESTONE, white (5Y 8/2), originally may have been a carbonate boundstone, CALCAREOUS MUDSTONE, pale yellow (5Y 7/3), shows some recrystallization or dolomitization. DOLOMITIZED LIMESTONE, pale yellow (2.5Y 7/4), recrystallized, few mollusc shells are still recognizable. BIOCLASTIC PACKSTONE, pale yellow (2.5Y 7/4) and yellowish brown (10YR 5/6), rich in corals, molluscs, echinoderms, etc.; porous.</p> <p>SMEAR SLIDE AND THIN SECTION SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>CC, 12 D</th> <th>CC, 18 D</th> <th>CC, 26 D</th> </tr> </thead> <tbody> <tr> <td>COMPOSITION:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Bioclast</td> <td>5</td> <td>65</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>56</td> <td>—</td> <td>—</td> </tr> <tr> <td>Dolomite</td> <td>30</td> <td>—</td> <td>90</td> </tr> <tr> <td>Feldspar</td> <td>1</td> <td>—</td> <td>—</td> </tr> <tr> <td>Micrite</td> <td>—</td> <td>30</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>—</td> <td>—</td> </tr> <tr> <td>Sparite</td> <td>—</td> <td>5</td> <td>—</td> </tr> <tr> <td>Zeolite</td> <td>3</td> <td>—</td> <td>—</td> </tr> </tbody> </table>		CC, 12 D	CC, 18 D	CC, 26 D	COMPOSITION:				Bioclast	5	65	10	Clay	56	—	—	Dolomite	30	—	90	Feldspar	1	—	—	Micrite	—	30	—	Quartz	5	—	—	Sparite	—	5	—	Zeolite	3	—	—
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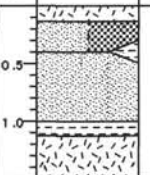
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																						
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																																															
RHAETIAN	Barren	Barren	Barren	Barren	$\rho_{2.62} = 2.62$ $\rho_{4.83} = 4.83$ $\rho_{5.4X} = 5.4X$		0.5 1 1.0 2 CC					# * # #	<p>FOSSILIFEROUS GRAINSTONE, DOLOMITIZED WACKESTONE, AND "LIMONITIC" DOLOMITIC CLAYSTONE</p> <p>Core consists of drilling fragments (1-4 cm long) and larger pieces (up to 20 cm long).</p> <p>Major lithologies: FOSSILIFEROUS GRAINSTONE, white (10YR 8/2), Section 1, 0-20 cm, partially recrystallized (dolomitic). Mollusc, crinoids, foraminifers, brachiopods(?); vuggy DOLOMITIZED WACKESTONE, light yellowish brown (10YR 6/4), with interbedded DOLOMITIC CLAYSTONE, yellow (10YR 7/6), Section 1, 20-150 cm, and Section 2. Limonitic intraclasts are present (e.g. Section 1, 72 and 118 cm). Large scleractinian coral, Section 1, 100 cm. Molluscs, crinoids, and foraminifers present. Mn Oxide staining in Section 1, 45-54 cm. Some laminations observed in wackestones and may represent dissolution and concentration of clayey layers. Minor bioturbation.</p> <p>Interpretation: The oxidized nature of the dolomitized wackestones and interbedded dolomitic clayey stone suggest oxygenated intertidal conditions, possibly a lagoonal environment where large fossils and an abundance of bioclasts would accumulate and be subjected to periodic subaerial exposure (intertidal to supratidal). The coquina-like grainstone resembles a shallow marine agitated environment (intertidal reef).</p> <p>SMEAR SLIDE AND THIN SECTION SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 13</td> <td>1, 64</td> <td>1, 118</td> <td>2, 10</td> </tr> <tr> <td></td> <td>D</td> <td>M</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Silt</td> <td>—</td> <td>3</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>97</td> <td>—</td> <td>—</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Bioclast</td> <td>—</td> <td>—</td> <td>—</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>55</td> <td>—</td> <td>—</td> </tr> <tr> <td>Dolomite</td> <td>90</td> <td>35</td> <td>—</td> <td>84</td> </tr> <tr> <td>Fish</td> <td>—</td> <td>1</td> <td>—</td> <td>—</td> </tr> <tr> <td>Intraclasts</td> <td>10</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Micrite</td> <td>—</td> <td>—</td> <td>—</td> <td>10</td> </tr> <tr> <td>Other</td> <td>—</td> <td>—</td> <td>—</td> <td>1</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>5</td> <td>—</td> <td>—</td> </tr> <tr> <td>Zeolite</td> <td>—</td> <td>4</td> <td>—</td> <td>—</td> </tr> </table>		1, 13	1, 64	1, 118	2, 10		D	M	D	D	Silt	—	3	—	—	Clay	—	97	—	—	Accessory minerals	—	Tr	—	—	Bioclast	—	—	—	5	Clay	—	55	—	—	Dolomite	90	35	—	84	Fish	—	1	—	—	Intraclasts	10	—	—	—	Micrite	—	—	—	10	Other	—	—	—	1	Quartz	—	5	—	—	Zeolite	—	4	—	—
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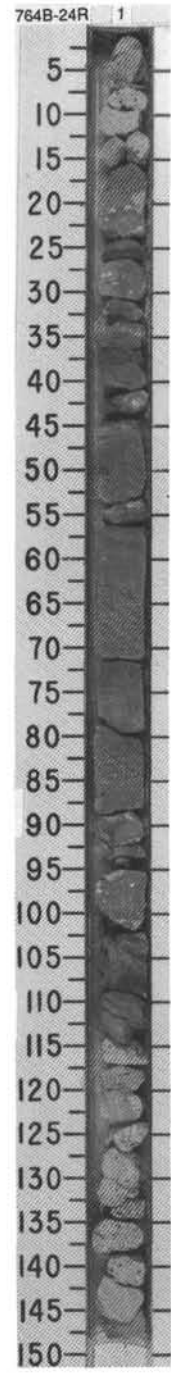


SITE 764 HOLE B CORE 23R CORED INTERVAL 203.5-213.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONS																								
RHAETIAN	Barren	Barren	Barren	Barren				1		# # #		<p>GRAINSTONE AND BOUNDSTONE</p> <p>Core consists of small drilling fragments.</p> <p>Major lithologies: GRAINSTONE, white (10YR 7/4) to very pale brown (10YR 8:3-8/4), structure-less and contains many foraminifers and some pelecypod fragments, corals, and minor crinoids, brachiopods, bryozoas, and echinoids. Many small vugs and minor black (10YR 2/1) Mn oxides are present. Brown color may also represent oxidation. BOUNDSTONE, white (10YR 8/1), consists mainly of corals, foraminifers, and pelecypods shells together with some gastropods, brachiopods, and crinoid fragments. Locally, pink (5YR 8/3) color is present suggesting the presence of Mn carbonates (rhodochrosite).</p> <p>Minor lithology: Dolomitic claystone, recrystallized, very pale brown (10YR 7/4), is present in Section 1, 5-12 cm.</p> <p>THIN SECTION SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 72</td> <td>1, 90</td> <td>1, 126</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Bioclast</td> <td>75</td> <td>60</td> <td>—</td> </tr> <tr> <td>Micrite</td> <td>25</td> <td>40</td> <td>—</td> </tr> </table>		1, 72	1, 90	1, 126		D	D	D	Bioclast	75	60	—	Micrite	25	40	—
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TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	RED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																	
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALYMONORPHS																																																																								
RHAETIAN						1				# # #	<p>CORAL BOUNDSTONE TO GRAINSTONE, CLAYEY DOLOMITIC WACKESTONE TO PACKSTONE, LAMINATED DOLOMITIC WACKESTONE, AND LIMONITIC DOLOMITIC CLAYSTONE</p> <p>Major lithologies CORAL BOUNDSTONE to GRAINSTONE, white (10YR 8/2), 0-16 cm, vuggy, abundant fossils, brachiopods, molluscs, corals, and foraminifers. CLAYEY DOLOMITIC WACKESTONE to PACKSTONE, light yellowish brown (10YR 6/4) to brownish yellow (10YR 6/6), 16-38 cm. Limonite staining and laminations of limonite alternating with dolomite. Includes boundstone intraclasts, brachiopods, and molluscs. LAMINATED DOLOMITIC WACKESTONE, light yellowish brown (2.5Y 6/4) to olive yellow (2.5Y 6/8), 38-100 cm. Rhynchonellids, mollusc, crinoids (stems). Boundstone intraclasts. Fossils mostly whole and lie in bedding plane. LIMONITIC DOLOMITIC CLAYSTONE with pinkish (5Y 8/3) mottles of rhodochrosite, 100-114 cm. CORAL BOUNDSTONE to GRAINSTONE, white (10YR 8/2), 114-150 cm, vermiform texture, massive coral (121-124 cm). Between 128-139 cm, pink (5YR 8/3) rhodochrosite (MnCO₃). Mollusc shells, foraminifers, crinoids, corals abundant.</p> <p>Minor lithology: Limonitic, dolomitic claystone, light gray (10YR 7/1), laminated, Section 1, 36-38 cm.</p> <p>Interpretation: Reef (boundstone) to intertidal lagoonal tidal flat (laminated wackestones) back to reef (boundstone).</p> <p>SMEAR SLIDE AND THIN SECTION SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>1, 28</td> <td>1, 37</td> <td>1, 46</td> <td>1, 91</td> <td>1, 127</td> </tr> <tr> <td></td> <td>D</td> <td>M</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Silt</td> <td>—</td> <td>3</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>97</td> <td>—</td> <td>—</td> <td>—</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Clay</td> <td>—</td> <td>58</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Dolomite</td> <td>50</td> <td>30</td> <td>50</td> <td>—</td> <td>—</td> </tr> <tr> <td>Glass</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Micrite</td> <td>40</td> <td>—</td> <td>50</td> <td>—</td> <td>—</td> </tr> <tr> <td>Microsparite</td> <td>10</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>9</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Zeolite</td> <td>—</td> <td>3</td> <td>—</td> <td>—</td> <td>—</td> </tr> </table>		1, 28	1, 37	1, 46	1, 91	1, 127		D	M	D	D	D	Silt	—	3	—	—	—	Clay	—	97	—	—	—	Clay	—	58	—	—	—	Dolomite	50	30	50	—	—	Glass	—	Tr	—	—	—	Micrite	40	—	50	—	—	Microsparite	10	—	—	—	—	Quartz	—	9	—	—	—	Zeolite	—	3	—	—	—
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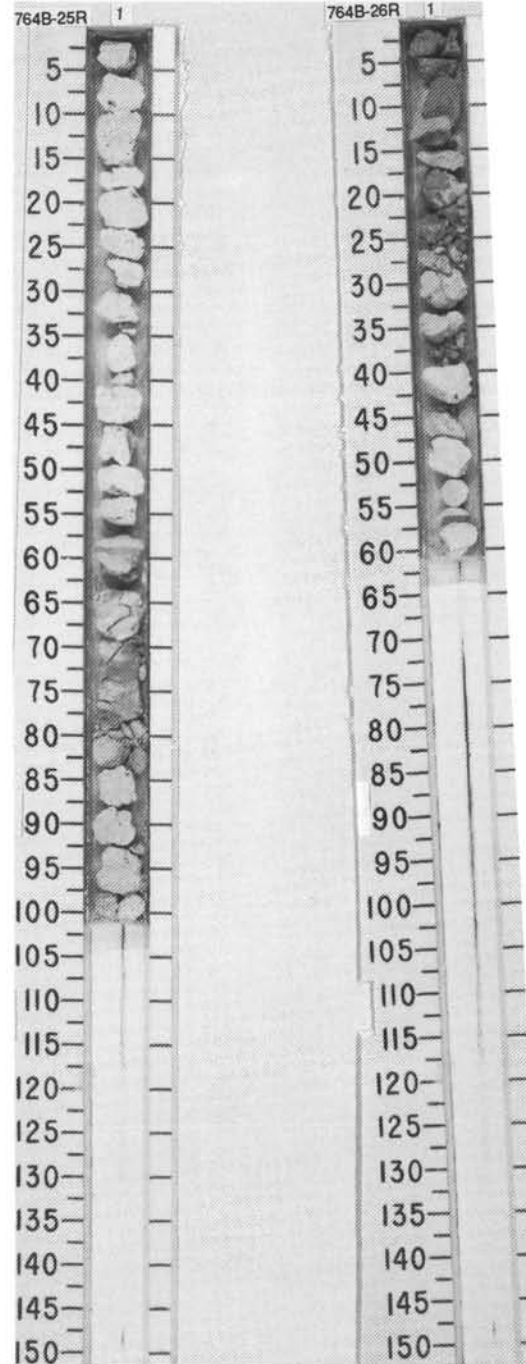


SITE 764 HOLE B CORE 25R CORED INTERVAL 222.5-232.0 mbsf

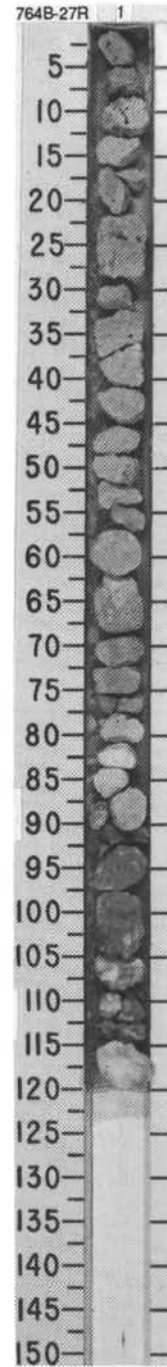
TIME-ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																														
	FORAMINIFERS	NAUPOSSIBLS	RADIOLARIANS	DIATOMS																																								
RHAETIAN	Barren	Barren	Barren	Barren		V-4.21 9-14.6 F-2.37 CaCO ₃ 98.0%								<p>CARBONATE BOUNDSTONE AND CARBONATE PACKSTONE</p> <p>Core consists of small drilling fragments.</p> <p>Major lithologies: CARBONATE BOUNDSTONE, white (10YR 8/2), light gray (10YR 7/2), and pink (5YR 8/4). Consists of white banded corals in a whitish lime mud matrix with yellow or pink stains. Includes brachiopods, two other types of colonial corals, and crinoids, some of which are articulated. CARBONATE PACKSTONE, light gray (10YR 7/2) to pink (5YR 8/4). Consists of coral, crinoidal, brachiopod, pelecypod, and echinodermal debris in a lime mud matrix and one thin bed of light yellowish brown (2.5Y 6/4), dolomitic muddy limestone.</p> <p>Minor lithology: Drill breccia consisting of white calcareous mudstone and boundstone fragments in an unlitified matrix of light yellowish brown (2.5Y 6/4) dolomitic clayey lime mud.</p> <p>SMEAR SLIDE AND THIN SECTION SUMMARY (%):</p> <table style="margin-left: 40px;"> <tr> <td></td> <td>1, 14</td> <td>1, 70</td> </tr> <tr> <td>D</td> <td></td> <td>M</td> </tr> </table> <p>COMPOSITION:</p> <table style="margin-left: 40px;"> <tr> <td>Calcite</td> <td>—</td> <td>25</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>48</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>25</td> </tr> <tr> <td>Echinoid spine</td> <td>—</td> <td>2</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Micrite</td> <td>60</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Sparite</td> <td>40</td> <td>—</td> </tr> </table>		1, 14	1, 70	D		M	Calcite	—	25	Clay	—	48	Dolomite	—	25	Echinoid spine	—	2	Mica	—	Tr	Micrite	60	—	Quartz	—	Tr	Sparite	40	—
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SITE 764 HOLE B CORE 26R CORED INTERVAL 232.0-241.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION										
	FORAMINIFERS	NAUPOSSIBLS	RADIOLARIANS	DIATOMS																				
RHAETIAN	Barren	Barren	Barren	Barren		V-5.32 9-13.6 F-2.74 CaCO ₃ 98.8%								<p>SKELETAL GRAINSTONE, SKELETAL WACKESTONE/PACKSTONE, CARBONATE BOUNDSTONE, RECRYSTALLIZED LIMESTONE</p> <p>Core consists of small drilling fragments.</p> <p>Major lithologies: SKELETAL GRAINSTONE, pale brown, (10YR 6/3), coarse with bioclasts including molluscs, mottled. SKELETAL WACKESTONE/PACKSTONE, mottled pink (7YR 7/4), very pale brown (10YR 8/3 and 10YR 8/4). Styolitic seams make one type nodular. One skeletal packstone fragment consists of molluscs, brachiopods, and a colonial coral in a lime mud. CARBONATE BOUNDSTONE, white (10YR 8/1) or mottled pink (7YR 7/4) and very pale brown (10YR 8/3). White type consists of branching and other corals in lime mud. Mottled type consists of bioclastic packstone boundstone with a large cavity filled with yellowish brown (10YR 5/8) calcareous and perhaps clayey mudstone; a large brachiopod is present. RECRYSTALLIZED LIMESTONE, pink (5YR 8/3), very fine grained, may be an altered coral.</p> <p>THIN SECTION SUMMARY (%):</p> <table style="margin-left: 40px;"> <tr> <td></td> <td>1, 13</td> <td>1, 19</td> <td>1, 53</td> <td>1, 58</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> <td>D</td> <td>D</td> </tr> </table>		1, 13	1, 19	1, 53	1, 58	D		D	D	D
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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																																																															
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RHAETIAN	Barren	C/G	Upper Triassic species	Barren	Barren																																																																							
						$V_{4.12} P_{2.08}$ $CaCO_3 = 91.1\%$	0.5 1.0				# # # # #	<p>CORAL BOUNDSTONE AND SKELETAL FOSSILIFEROUS FLOATSTONE.</p> <p>Core consists of small drilling fragments.</p> <p>Major lithologies: CORAL BOUNDSTONE, with pink (5YR 3/4) biomicrite (skeletal fossiliferous mudstone and wackestone) matrix. Fossils scattered in the matrix are chiefly molluscs and brachiopods. The boundstone is variegated with shades of very pale brown (10YR 8/3). FOSSILIFEROUS-SKELETAL FLOATSTONE, pink (5YR 7/4) and light red (2.5YR 6/8). It is a biomicrite (fossiliferous-skeletal mudstone, wackestone, and minor packstone) with molluscs (including gastropods), brachiopods, dasycladacean algae, bryozoans, and large coral heads. Small cavities are filled with yellow (2.5Y 8/2) calcareous mudstone. In Section 1, 90-115 cm, a fossiliferous-skeletal floatstone that is intermediate between the two dominant lithologies is present.</p> <p>THIN SECTION SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 5</td> <td>1, 33</td> <td>1, 60</td> <td>1, 74</td> <td>1, 95</td> <td>1, 99</td> <td>1, 114</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Bioclast</td> <td>—</td> <td>55</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>10</td> </tr> <tr> <td>Intraclasts</td> <td>—</td> <td>—</td> <td>30</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Micrite</td> <td>—</td> <td>30</td> <td>50</td> <td>—</td> <td>—</td> <td>—</td> <td>50</td> </tr> <tr> <td>Spar Cement</td> <td>—</td> <td>15</td> <td>20</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Sparite</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>40</td> </tr> </table>		1, 5	1, 33	1, 60	1, 74	1, 95	1, 99	1, 114		D	D	D	D	D	D	D	Bioclast	—	55	—	—	—	—	—	Dolomite	—	—	—	—	—	—	10	Intraclasts	—	—	30	—	—	—	—	Micrite	—	30	50	—	—	—	50	Spar Cement	—	15	20	—	—	—	—	Sparite	—	—	—	—	—	—	40
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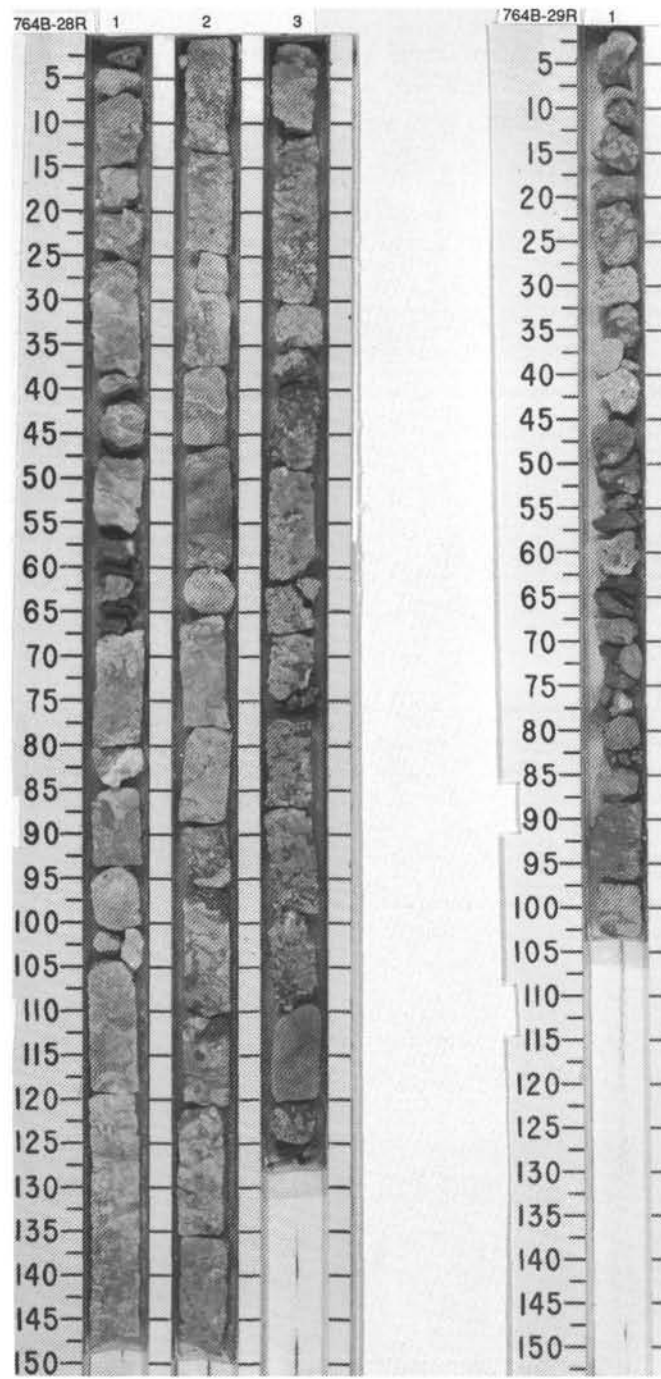


SITE 764 HOLE B CORE 28R CORED INTERVAL 251.0-260.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION						
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																
RHAETIAN	Barren	Barren	Barren	Barren										<p>BIOCLASTIC RUDSTONE</p> <p>Core consists of large and small fragments.</p> <p>Major lithology: BIOCLASTIC RUDSTONE, (5YR 7/3). Intraclasts are biomicrite (skeletal, fossiliferous) mudstone and wackestone, essentially a pseudobreccia composed of bryozoans, algae, molluscs, and corals up to 45 mm. Clasts are filled and locally stylonitic. Sediments are massive with cavity infillings of brick red claystone.</p> <p>Minor lithologies:</p> <p>a. Nodular carbonate mudstone, reworked corals, nodular intraclasts, and algal laminations, pink (5YR 7/3), micritic matrix. Matrix is fragmented and gives a brecciated appearance; highly fractured.</p> <p>b. Carbonate wackestone, red (5R 5/6), <5% total.</p> <p>c. Coral boundstone, <1% total. d. Carbonate pebble breccia, 1-2 cm size, laminated pink (2.5YR 4/6 and 5YR 4/6) biomicrite.</p> <p>THIN SECTION SUMMARY (%):</p> <table border="0"> <tr> <td>1,104</td> <td>3,47</td> <td>3,113</td> </tr> <tr> <td>M</td> <td>D</td> <td>M</td> </tr> </table>	1,104	3,47	3,113	M	D	M
1,104	3,47	3,113																		
M	D	M																		
	Barren	Barren	Barren	Barren																

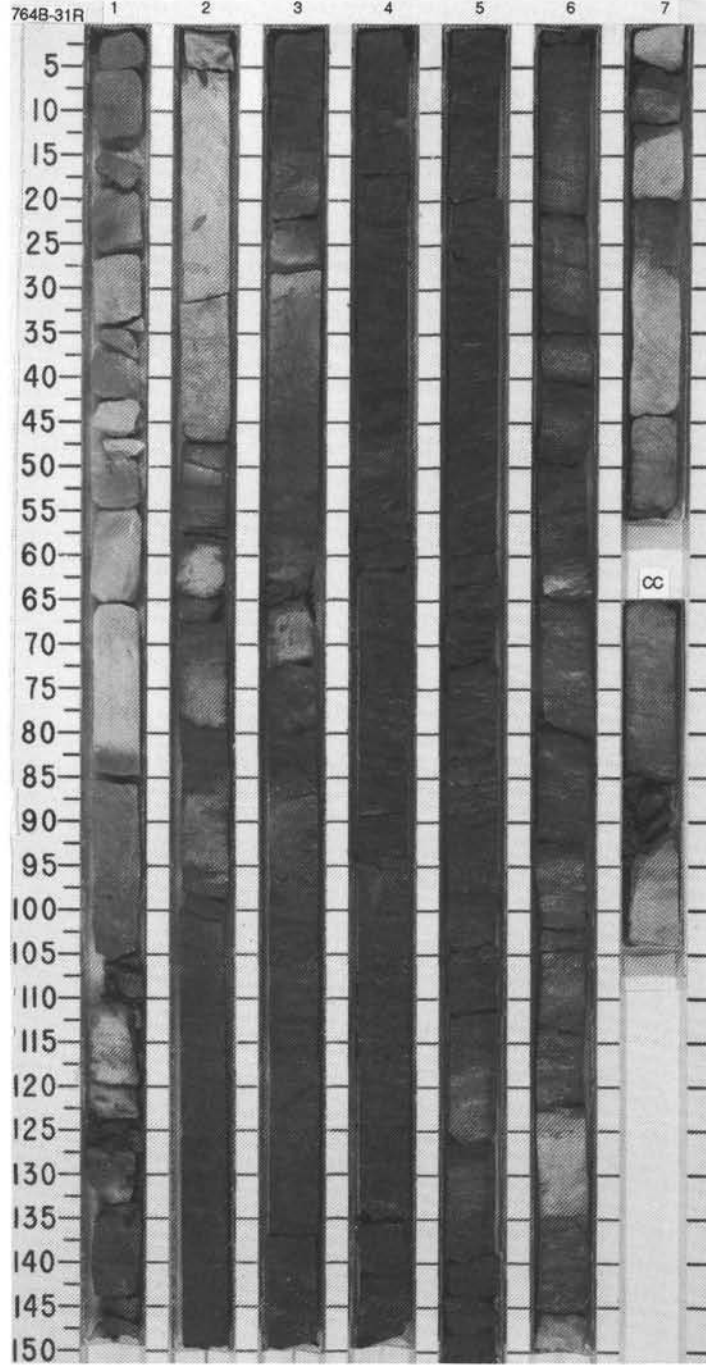
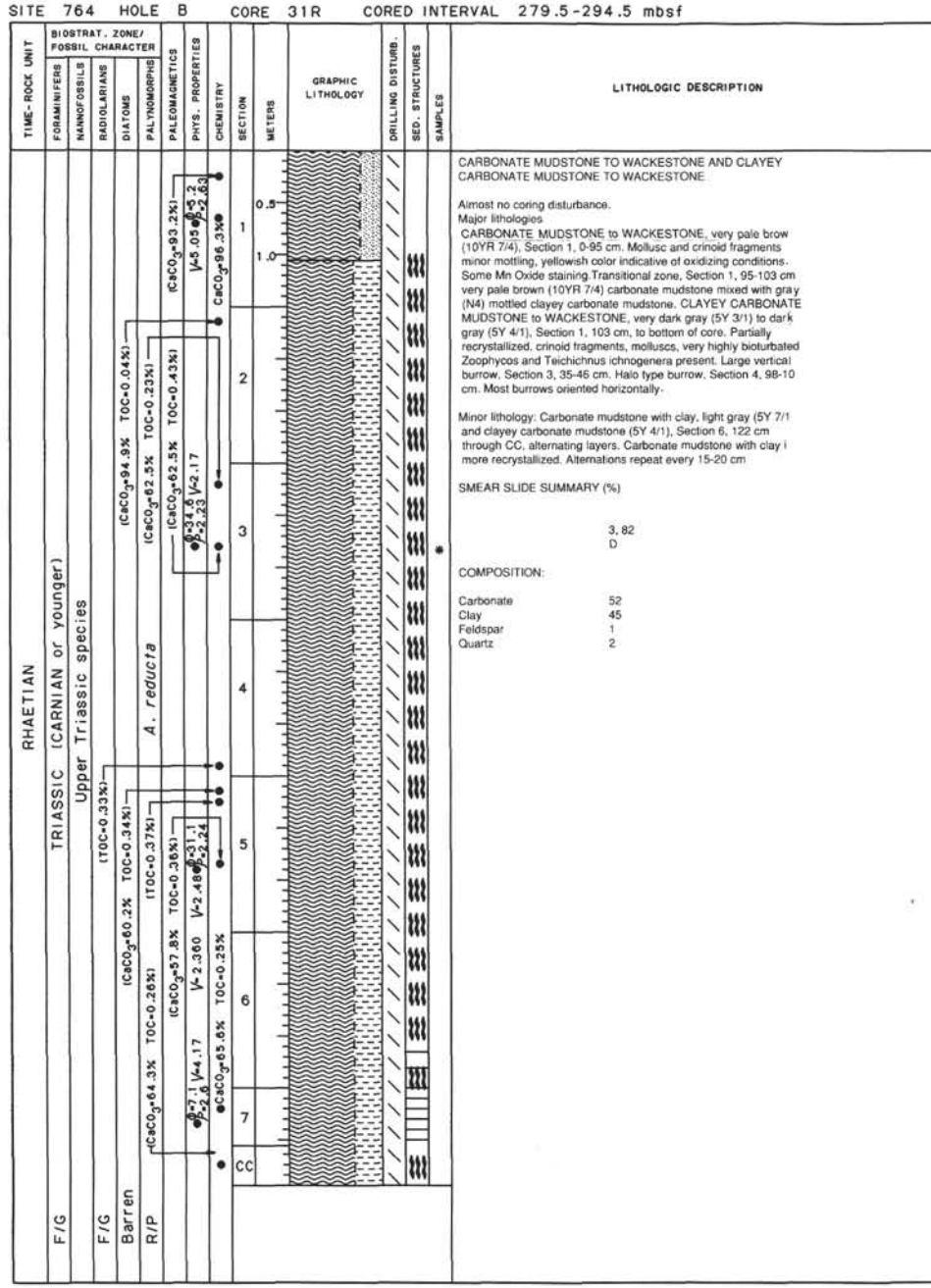
SITE 764 HOLE B CORE 29R CORED INTERVAL 260.5-270.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION	
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS											
RHAETIAN	Barren	Barren	Barren	Barren										<p>CORAL-MOLLUSC WACKESTONE</p> <p>Core consists of 1 to 6 cm long fragments.</p> <p>Major lithology: CORAL-MOLLUSC WACKESTONE, red (10YR 4/6), some pieces may be floatstone or boundstone. Molluscs and corals dominant constituents, others include bryozoans and green algae. Minor reddish brown (7.5YR 6/6) calcareous mudstone (mainly siliciclastic). Common moldic or vuggy porosity, stylonitic in part.</p> <p>Minor lithologies:</p> <p>a. Carbonate breccia, fossiliferous limestone clasts, pale brown (10YR 8/3) in fossiliferous micrite matrix, red (2.5YR 5/8). Major components are molluscs (as clast and matrix).</p> <p>b. Coral wackestone, very pale brown (10YR 8/3). Constituents are mainly small pebble sized corals, now sparry calcite. Other components include molluscs and echinoderms. Moldic porosity is common.</p>	
	Barren	Barren	Barren	Barren											

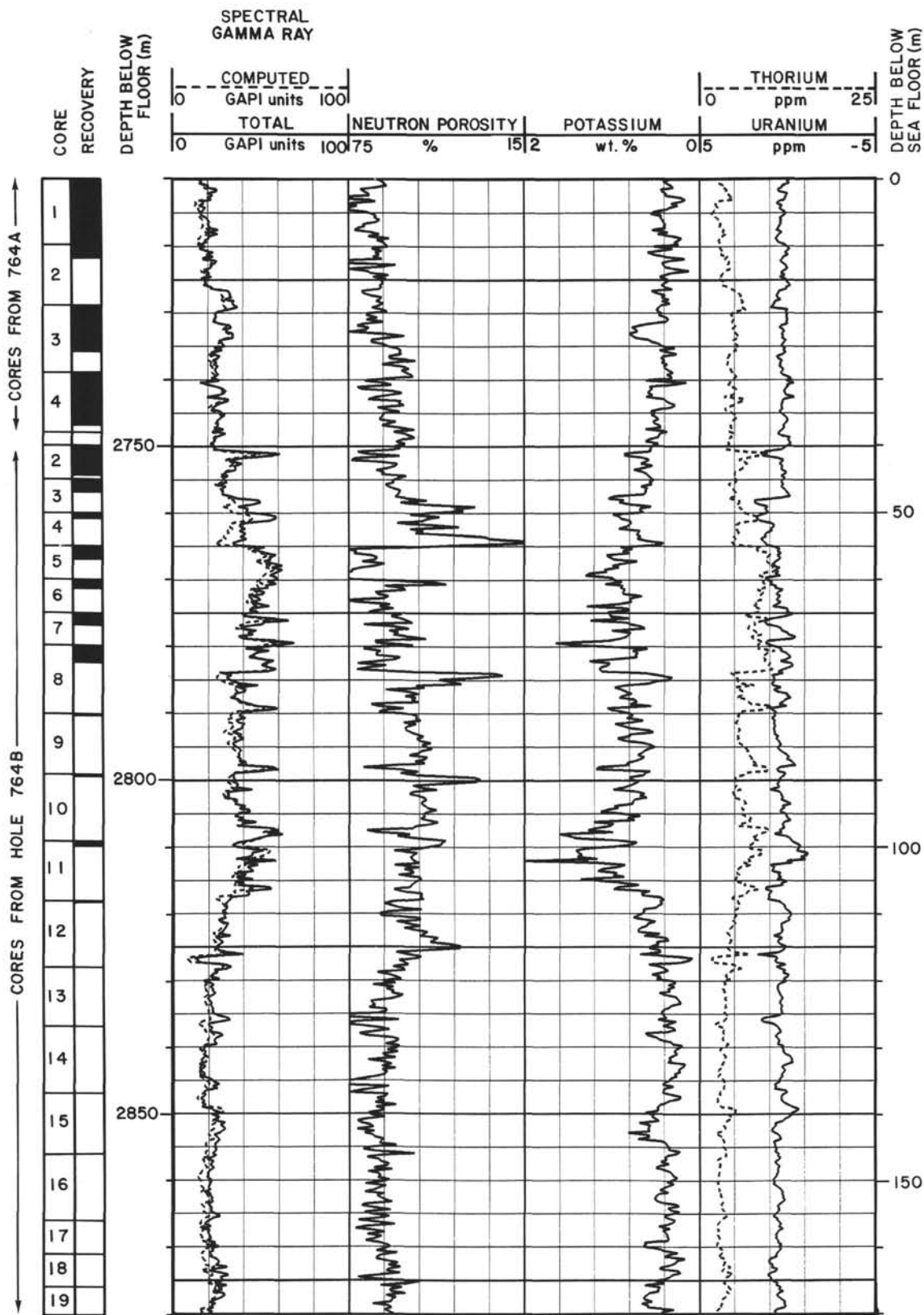


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
RHAETIAN					V-4.20 ϕ 1.4 ϕ 2.49		1	0.5 1.0			#		<p>OOLITIC GRAINSTONE</p> <p>Core consists of small (1 to 4 cm long) fragments.</p> <p>Major lithology: OOLITIC GRAINSTONE, very pale brown (10YR 8/4), in a fining-upward bioclastic unit, 3-5 mm grain size at the base for bioclasts, 1 mm at top for oolites. Bioclasts include molluscs, coral fragments. High porosity derived from moldic origin.</p> <p>Minor lithologies:</p> <p>a. Carbonate bioclastic breccia, light red (5Y 8/1), highly fractured. Clasts consist of both fossils and limestone fragments. Fossil components include coral fragments, green algae, and molluscs. Also present are stylolites, compaction features, and thin, wavy clay laminae interbeds.</p> <p>b. Wackestone, light red (5R 6/6, 10R 6/6), highly fractured. This wackestone ranges from coral-mollusc wackestone at the top (0-15 cm) with sparry calcite recrystallization, moldic porosity, and clay stringers to highly recrystallized near base with some crinoids and molluscs identifiable.</p> <p>THIN SECTION SUMMARY (%):</p> <p style="text-align: center;">1, 64 D</p>

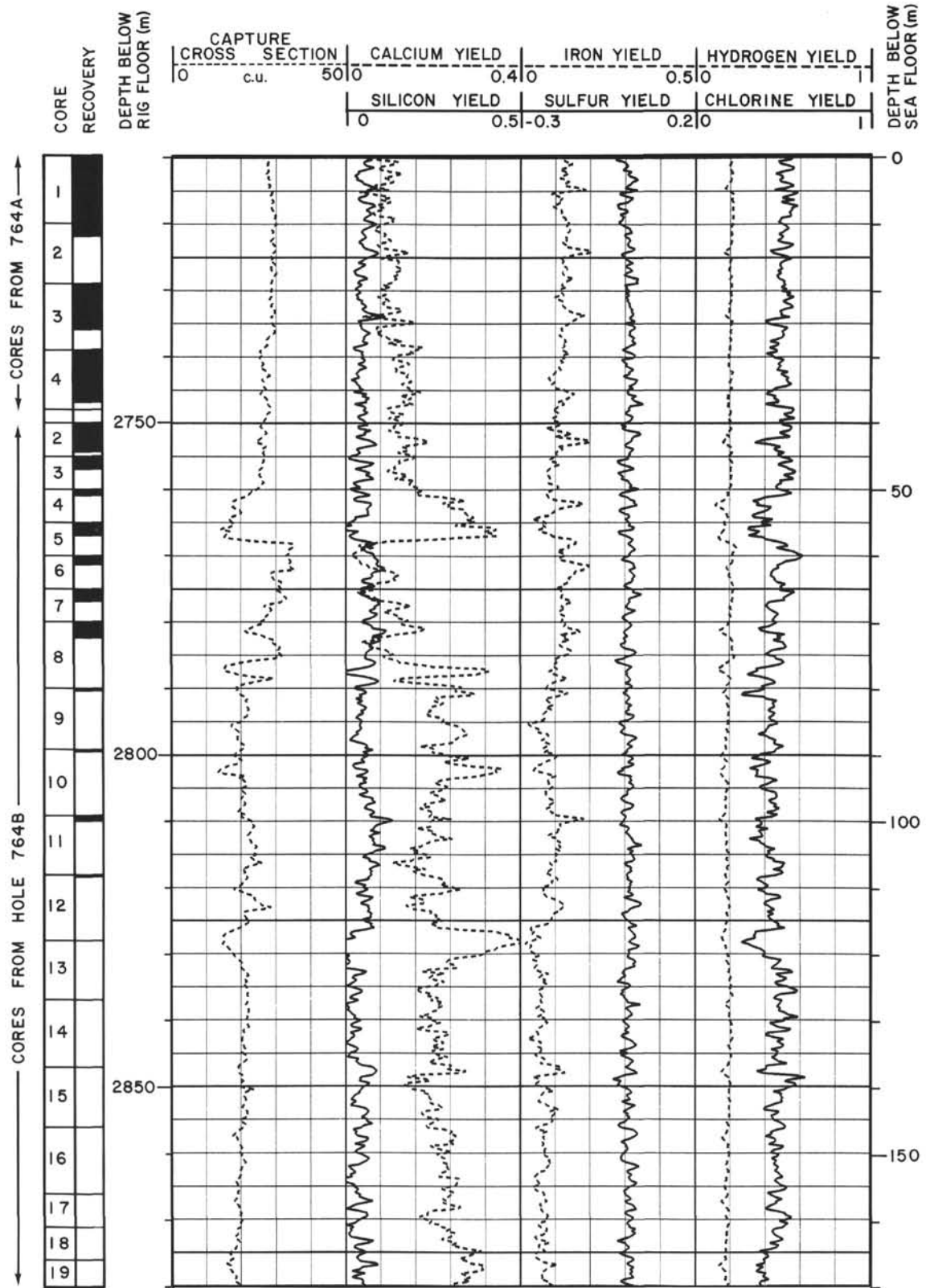




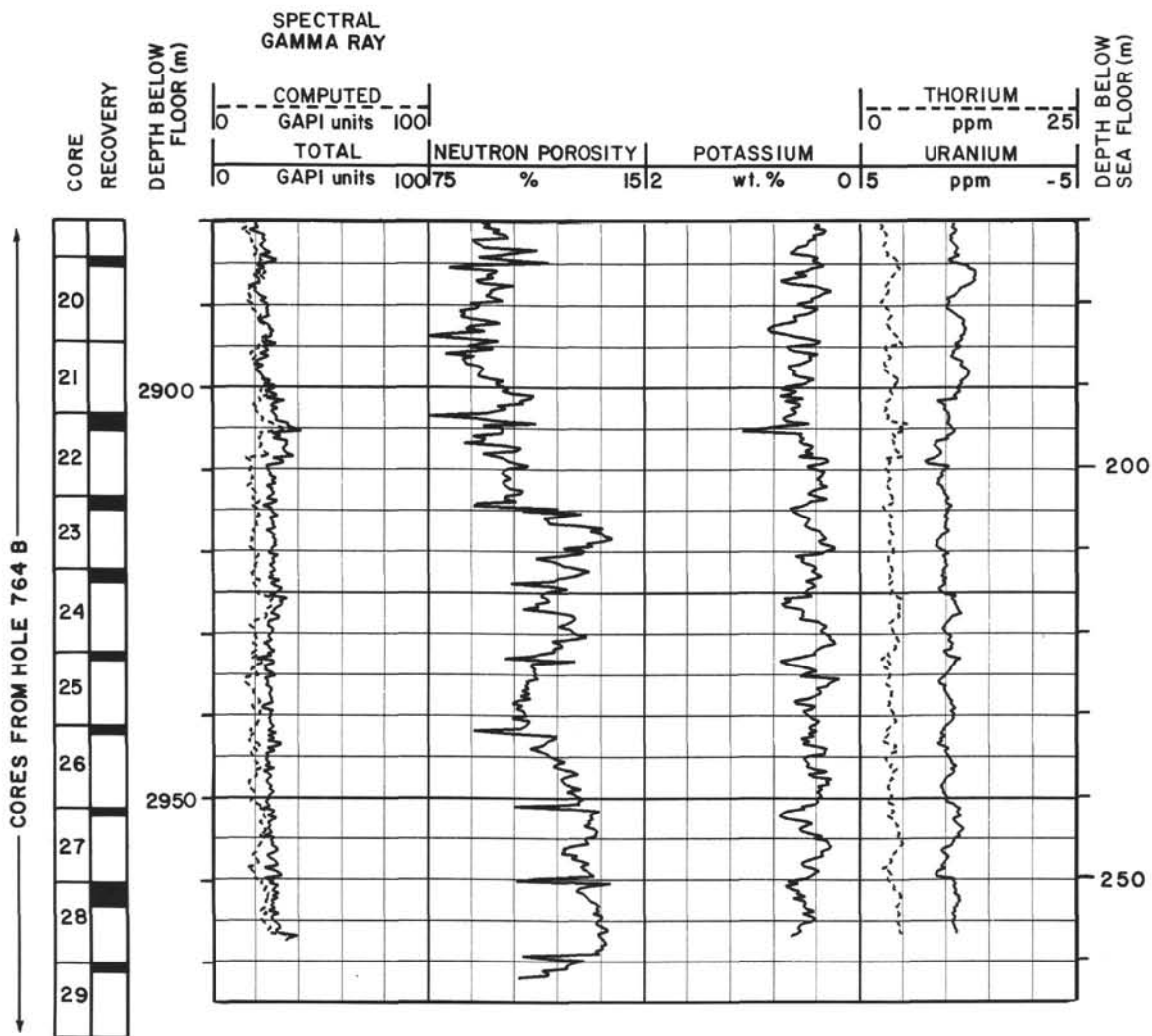
Summary Log for Site 764B



Summary Log for Site 764B (continued)



Summary Log for Site 764B (continued)



Summary Log for Site 764B

