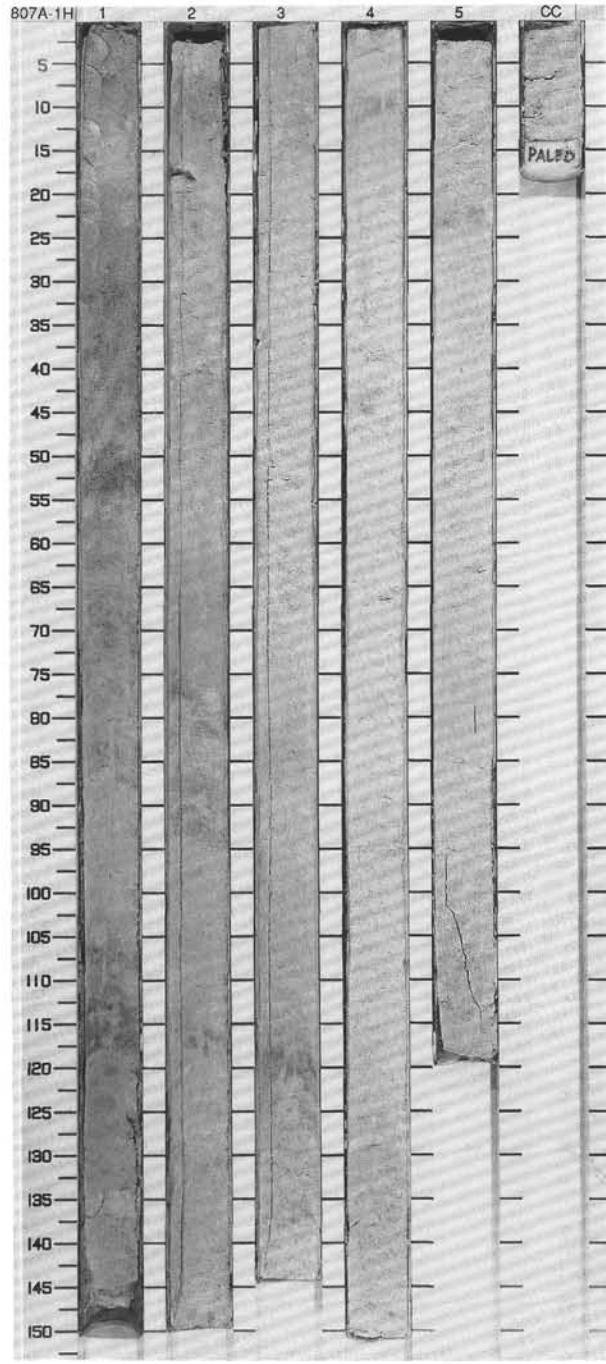


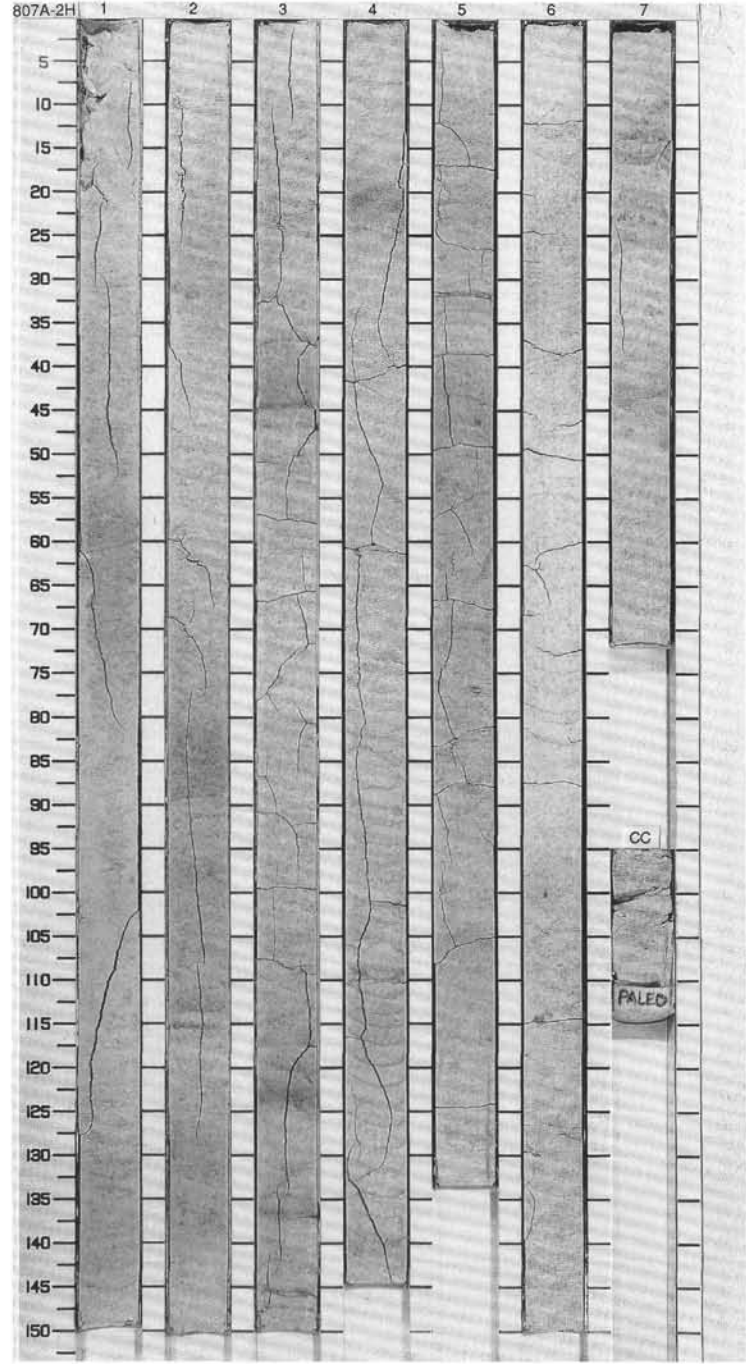
SITE 807 HOLE A CORE 1H CORED INTERVAL 0.0-7.4 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAATOMS										
PLEISTOCENE													
A/G	N22 - N23												
A/G	NN20												
A/M	<i>Amphirohapalum ypsilon</i> - <i>Buccinosphaera invaginata</i>	?											
R/P													
N (Brnnes)(inferred, not oriented)													
V-1564	70.1	V-1539	88.6	V-1588	89.7	V-1564	56.4						
● %CaCO ₃	70.1	● %CaCO ₃	88.6	● %CaCO ₃	89.7	● %CaCO ₃	56.4						
V-1539	86.6	V-1548	70.1	V-1588	51.51	V-1564	70.1						
● %CaCO ₃	86.6	● %CaCO ₃	70.1	● %CaCO ₃	51.51	● %CaCO ₃	70.1						
V-1564	88.5	V-1539	88.5	V-1588	86.6	V-1564	88.5						
● %CaCO ₃	88.5	● %CaCO ₃	88.5	● %CaCO ₃	86.6	● %CaCO ₃	88.5						
V-1539	88.5	V-1548	88.5	V-1588	88.5	V-1564	88.5						
● %CaCO ₃	88.5	● %CaCO ₃	88.5	● %CaCO ₃	88.5	● %CaCO ₃	88.5						
V-1564	88.5	V-1539	88.5	V-1588	88.5	V-1564	88.5						
● %CaCO ₃	88.5	● %CaCO ₃	88.5	● %CaCO ₃	88.5	● %CaCO ₃	88.5						
V-1539	88.5	V-1548	88.5	V-1588	88.5	V-1564	88.5						
● %CaCO ₃	88.5	● %CaCO ₃	88.5	● %CaCO ₃	88.5	● %CaCO ₃	88.5						
V-1564	88.5	V-1539	88.5	V-1588	88.5	V-1564	88.5						
● %CaCO ₃	88.5	● %CaCO ₃	88.5	● %CaCO ₃	88.5	● %CaCO ₃	88.5						
V-1539	88.5	V-1548	88.5	V-1588	88.5	V-1564	88.5						
● %CaCO ₃	88.5	● %CaCO ₃	88.5	● %CaCO ₃	88.5	● %CaCO ₃	88.5						

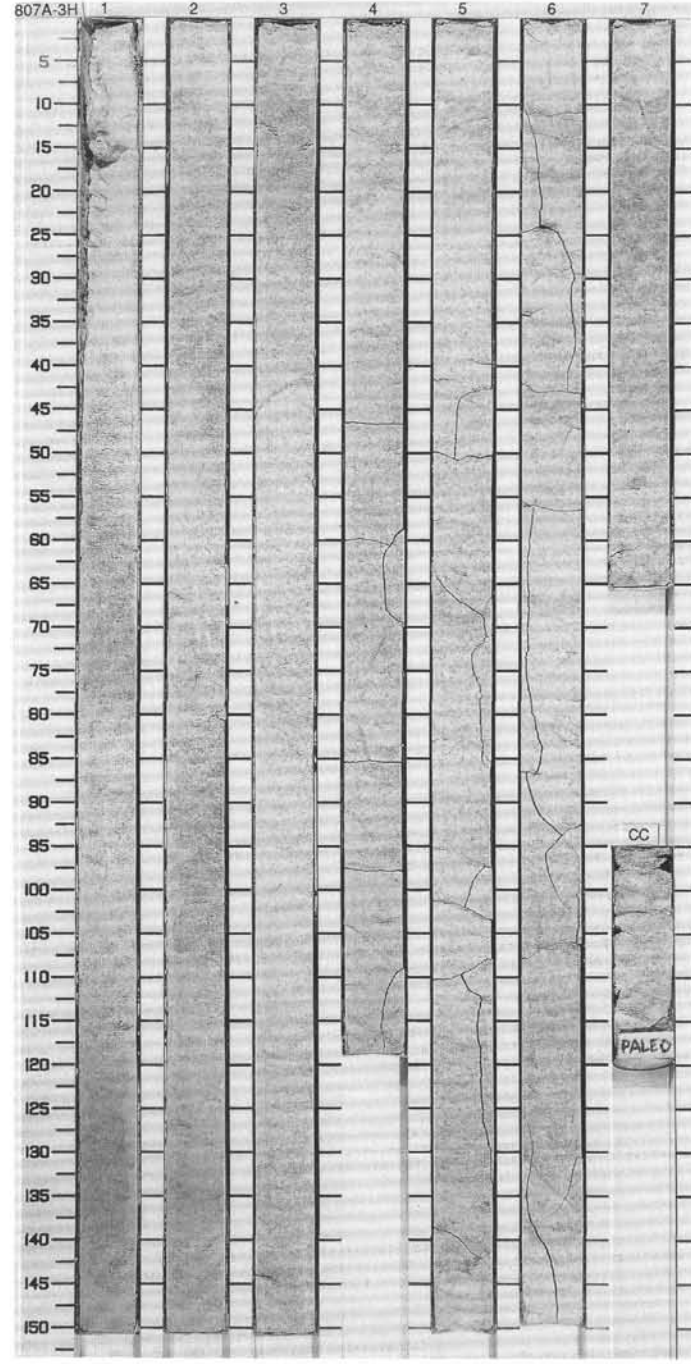


SITE 807 HOLE A CORE 2H CORED INTERVAL 7.4 - 16.9 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/FOSSIL CHARACTER		PALEOMAGNETICS	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS								
PLEISTOCENE											
A/G	N22										
A/G	NN19										
F/P	?										
R/P	?										
N (Jaramillo)	R (Matuyama)(inferred)	N (Brunhes)(inferred, not oriented)									
V-1566 ● _{1.55}	V-1557 ● _{1.54}	V-1623 ● _{1.53}	V-1564 ● _{1.53}	V-1597 ● _{1.52}	V-1597 ● _{1.51}	V-1597 ● _{1.50}					
●%CaCO ₃ =89.9	●%CaCO ₃ =88.8	●%CaCO ₃ =88.7	●%CaCO ₃ =87.8	●%CaCO ₃ =89.3	●%CaCO ₃ =89.3	●%CaCO ₃ =89.8					
CC											

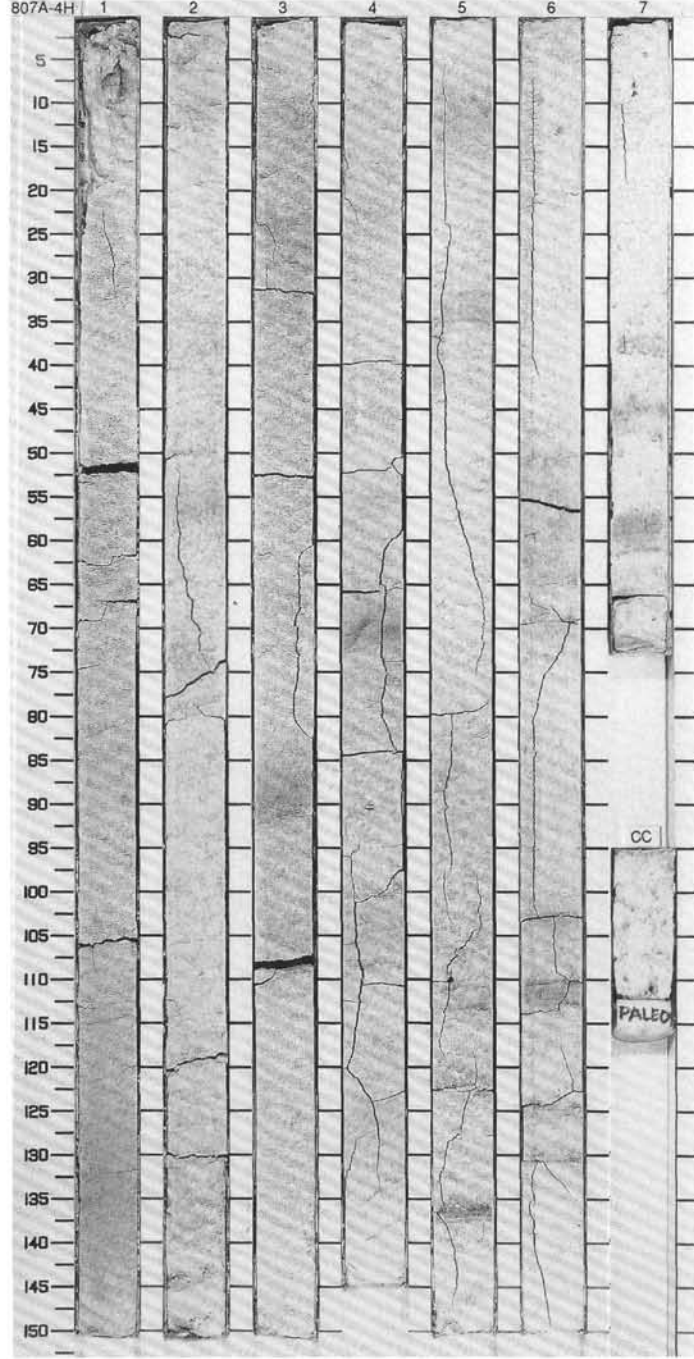


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONS								
PLEISTOCENE											
A/G	N22						0.5		O O O		
A/G	NN19						1.0				
F/P	?						2.0				
R/P	?						3.0				
	R (Matuyama)						4.0				
							5.0				
							6.0				
							7.0				
							8.0				

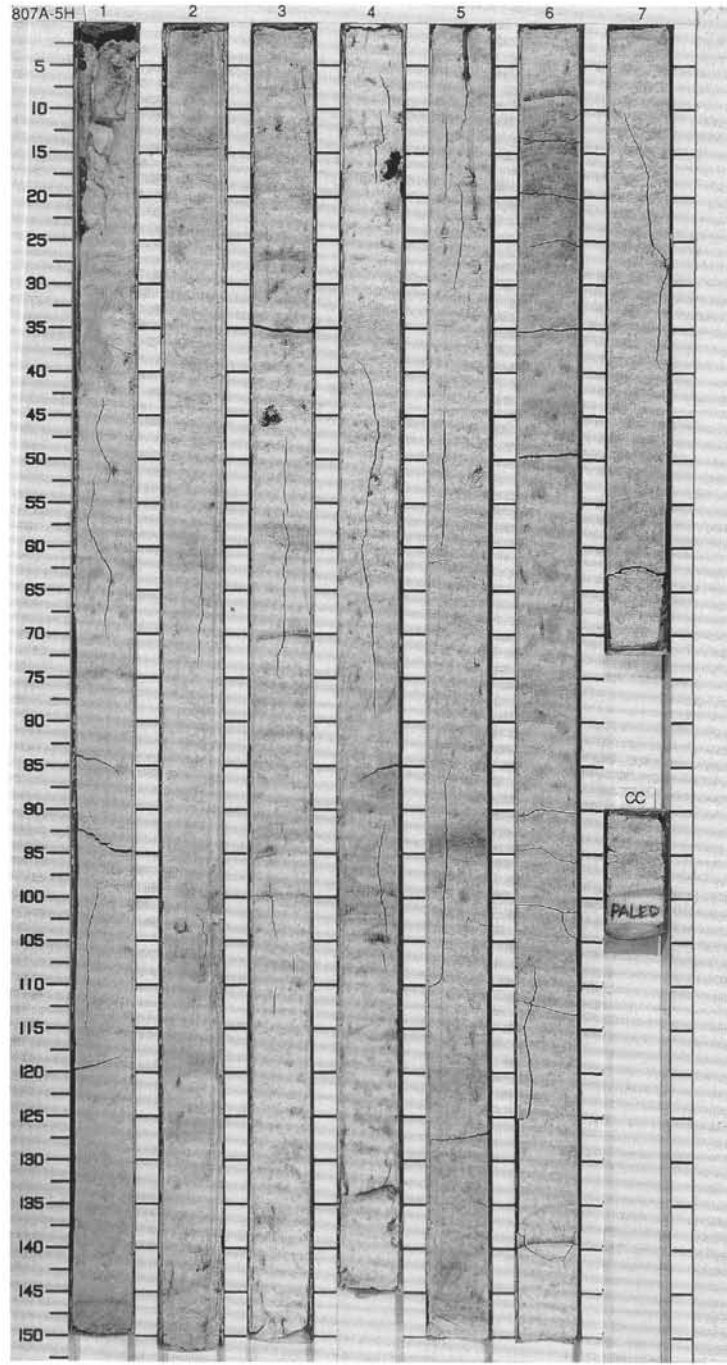


SITE 807 HOLE A CORE 4H CORED INTERVAL 26.4-35.9 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS		PHYS. PROPERTIES		CHEMISTRY		SECTION		METERS		GRAPHIC LITHOLOGY		DRILLING DISTURB.		SED. STRUCTURES		SAMPLES		LITHOLOGIC DESCRIPTION	
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																				
UPPER PLIOCENE																							
A/M	N21			R (Matuyama)		V-1575		●%CaCO ₃ =89.0		1		0.5				O				FORAMINIFER NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS			
A/M	NN18			N (Olduvai)		V-1575		●%CaCO ₃ =89.0		2		1.0								Major lithology: This core contains homogeneous FORAMINIFER NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS. The sediment is white (7.5YR 8/0 grading into 10YR 8/1 in Section 6) and slightly bioturbated, as indicated by a few watery, pyrite-filled burrows and by gray (10YR 6/1) and light gray (10YR 7/2) mottles below Section 6. In Sections 2 through 5, several diffuse cm scale, gray (7.5YR 6/0) and bluish gray (5B 6/1) zones are present. In Sections 6 and 7, a few diffuse, cm scale, bluish gray, reddish gray (10R 6/1) and greenish gray (5G 7/1) zones, as well as greenish gray color bands (cm scale), are noted.			
A/M	<i>Pteroinium prismatum</i>					V-1600		●%CaCO ₃ =89.5		3										SMEAR SLIDE SUMMARY (%):			
R-F/P	?					V-1600		●%CaCO ₃ =88.2		4										3.74 D			
						V-1600		●%CaCO ₃ =80.3		5										TEXTURE:			
						V-1600		●%CaCO ₃ =90.8		6										Sand 15 Silt 60 Clay 25			
						V-1597		●%CaCO ₃ =90.0		7										COMPOSITION:			
						V-1608		●%CaCO ₃ =89.2		CC										Accessory minerals 2 Diatoms Tr Foraminifers 28 Nannofossils 67 Siliceous fragments 3			
						V-1608		●%CaCO ₃ =89.2		TW													

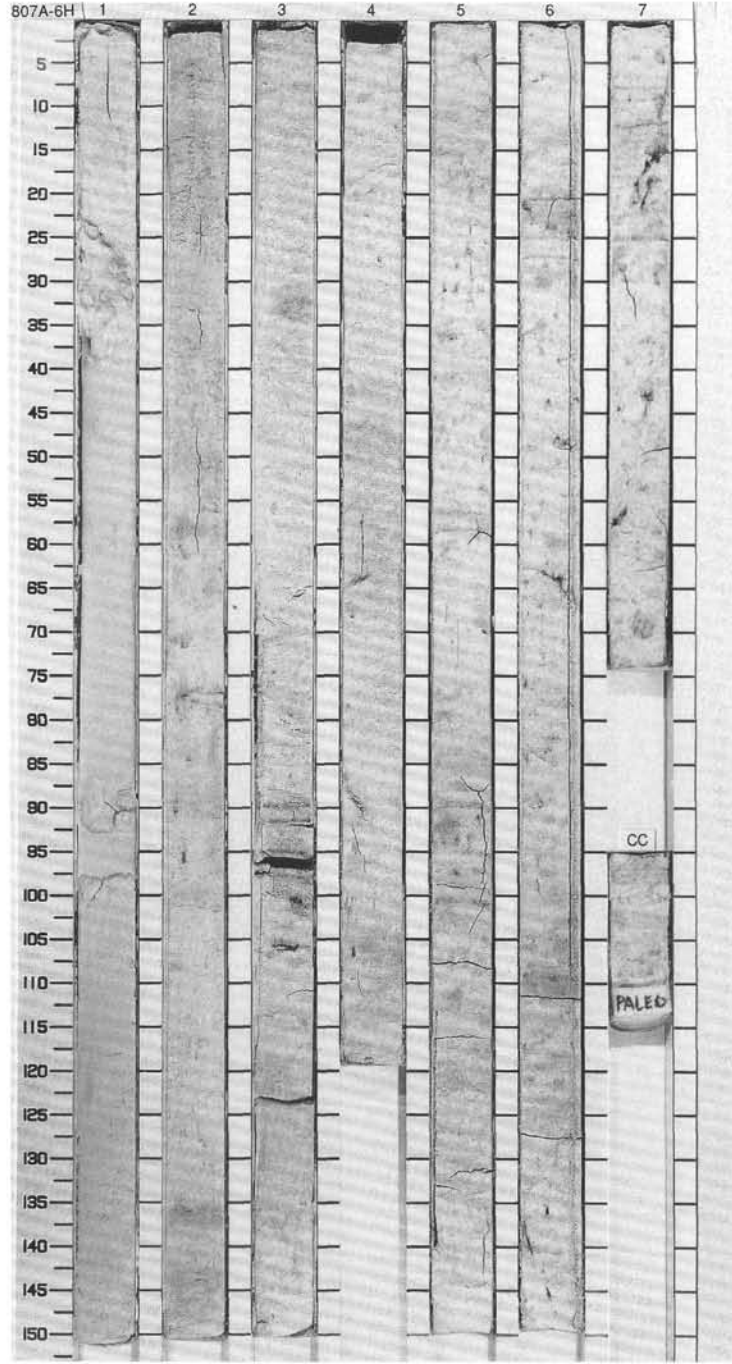


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS		PHYS. PROPERTIES		CHEMISTRY		SECTION		METERS		GRAPHIC LITHOLOGY		DRILLING DISTURB		BED. STRUCTURES		SAMPLES		LITHOLOGIC DESCRIPTION			
FORAMINIFERS		NANNOFOSSILS		RADIOLARIANS		DIATOMS		P-1593		P-1593		P-1593		P-1593		P-1593		P-1593		P-1593		P-1593			
UPPER PLIOCENE		N21		NN16		Pterocanium prismatium		NTD 15b Rhizosolenia praebergoni		V-1608 69.3 P-153		V-1608 66.9 P-153		V-1608 69.6 P-153		V-1608 67.1 P-156		V-1571 66.1 P-155		V-1589 69.7 P-152		V-1593 90.4 P-152		FORAMINIFER NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS	
A/M																								Major lithology: This core contains white (7.5YR 8/0) FORAMINIFER NANNOFOSSIL OOZ to NANNOFOSSIL OOZE with FORAMINIFERS, which grades into a 5 cm thick gray (N7/) interval at Section 1, 145 cm and a pale purple (5P 6/2) interval at Section 5, 95 cm. The sediment is slightly to heavily bioturbated, and contains watery pyrite-filled burrows and lig gray (5Y 7/1) and light olive gray (5Y 6/2) mottling. A 2 cm long pyrite concretion is present in Section 4, 15 cm. Faint to sharp, pale blue (5PB 7/2), pale purple (5P 6/2), light greenish gray (5G 7/1), and pale green (5G 6/2) color bands are common throughout the core.	
A																								SMEAR SLIDE SUMMARY (%):	
A/M																								Sand 14	
C/M																								Silt 82	
																								Clay 4	
																								COMPOSITION:	
																								Diatoms Tr	
																								Foraminifers 25	
																								Nannofossils 70	
																								Radiolarians 2	
																								Silicoflagellates 2	
																								Spricules 1	

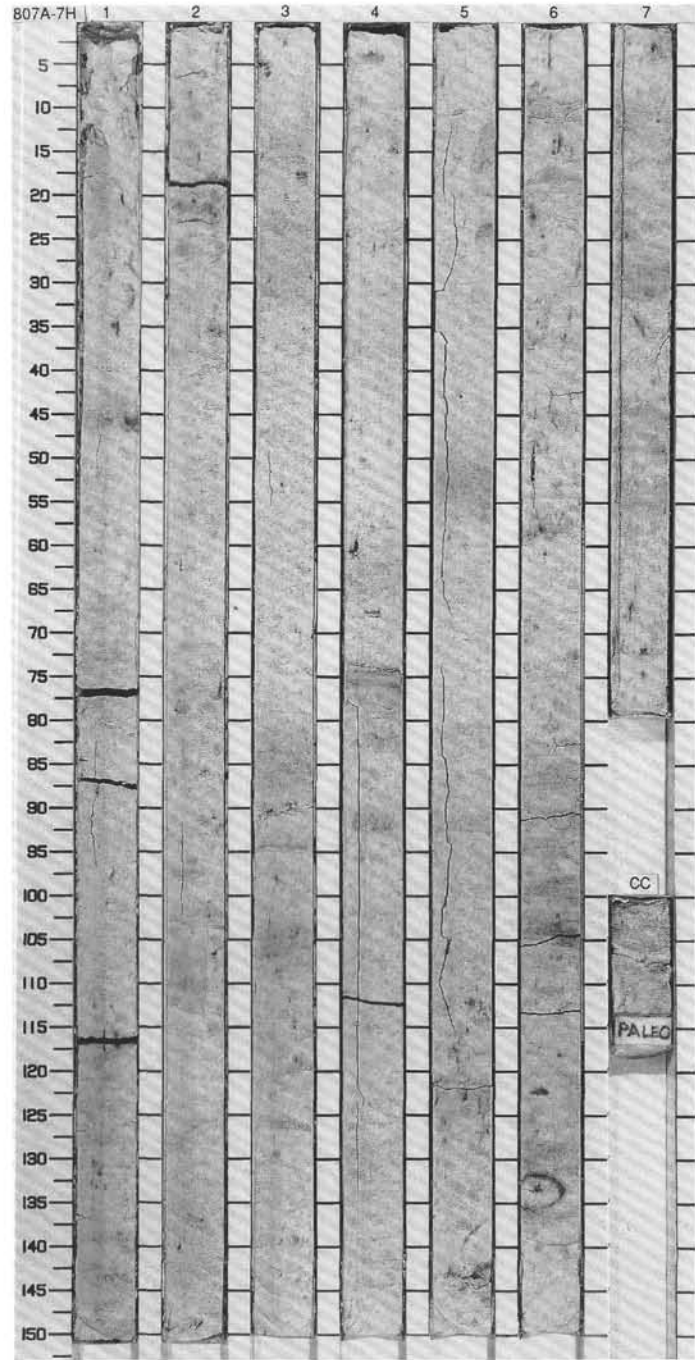


SITE 807 HOLE A CORE 6H CORED INTERVAL 45.4-54.9 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																		
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																											
UPPER PIOCENE																														
A/G		N21										<p>NANNOFOSSIL OOZE with FORAMINIFERS to FORAMINIFER NANNOFOSSIL OOZE</p> <p>Major lithology. This core contains NANNOFOSSIL OOZE with FORAMINIFERS to FORAMINIFER NANNOFOSSIL OOZE. The sediment is white (7.5YR 8.0 and 2.5Y 8.0) and slightly to moderately bioturbated, as indicated by light gray (5G 7.1 and 5Y 7.2) mottles and mm to cm scale, splay-filled burrows. Light greenish gray (5G 7.1), pale blue (5PB 7.2), and grayish blue (5PB 5.2) color bands are present throughout the core and form concentrated zones at Section 3, 90-105 cm, Section 5, 35-60 and 80-100 cm, Section 6, 22-27 cm, and Section 7, 0-26 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr><td>Foraminifers</td><td>3.80</td></tr> <tr><td>D</td><td></td></tr> </table> <p>TEXTURE:</p> <table border="1"> <tr><td>Sand</td><td>25</td></tr> <tr><td>Silt</td><td>70</td></tr> <tr><td>Clay</td><td>5</td></tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr><td>Foraminifers</td><td>15</td></tr> <tr><td>Nannofossils</td><td>82</td></tr> <tr><td>Radiolarians</td><td>2</td></tr> <tr><td>Silicoflagellates</td><td>1</td></tr> </table>	Foraminifers	3.80	D		Sand	25	Silt	70	Clay	5	Foraminifers	15	Nannofossils	82	Radiolarians	2	Silicoflagellates	1
Foraminifers	3.80																													
D																														
Sand	25																													
Silt	70																													
Clay	5																													
Foraminifers	15																													
Nannofossils	82																													
Radiolarians	2																													
Silicoflagellates	1																													
A/P		NN16		V-1593 $\phi_{2.155}$ -67.7	\bullet CaCO ₃ -91.9	1	0.5																							
A/M		<i>Spongaster pentas</i>		V-1568 $\phi_{2.154}$ -69.6	\bullet CaCO ₃ -90.6	2	1.0																							
F-C/P-M		?		V-1593 $\phi_{2.155}$ -67.9	\bullet CaCO ₃ -89.5	3	1.5																							
				V-1593 $\phi_{2.155}$ -67.9	\bullet CaCO ₃ -89.5	4	2.0																							
				V-1593 $\phi_{2.155}$ -67.9	\bullet CaCO ₃ -91.9	5	2.5																							
				V-1593 $\phi_{2.155}$ -67.7	\bullet CaCO ₃ -91.9	6	3.0																							
				V-1593 $\phi_{2.155}$ -67.7	\bullet CaCO ₃ -91.9	7	3.5																							

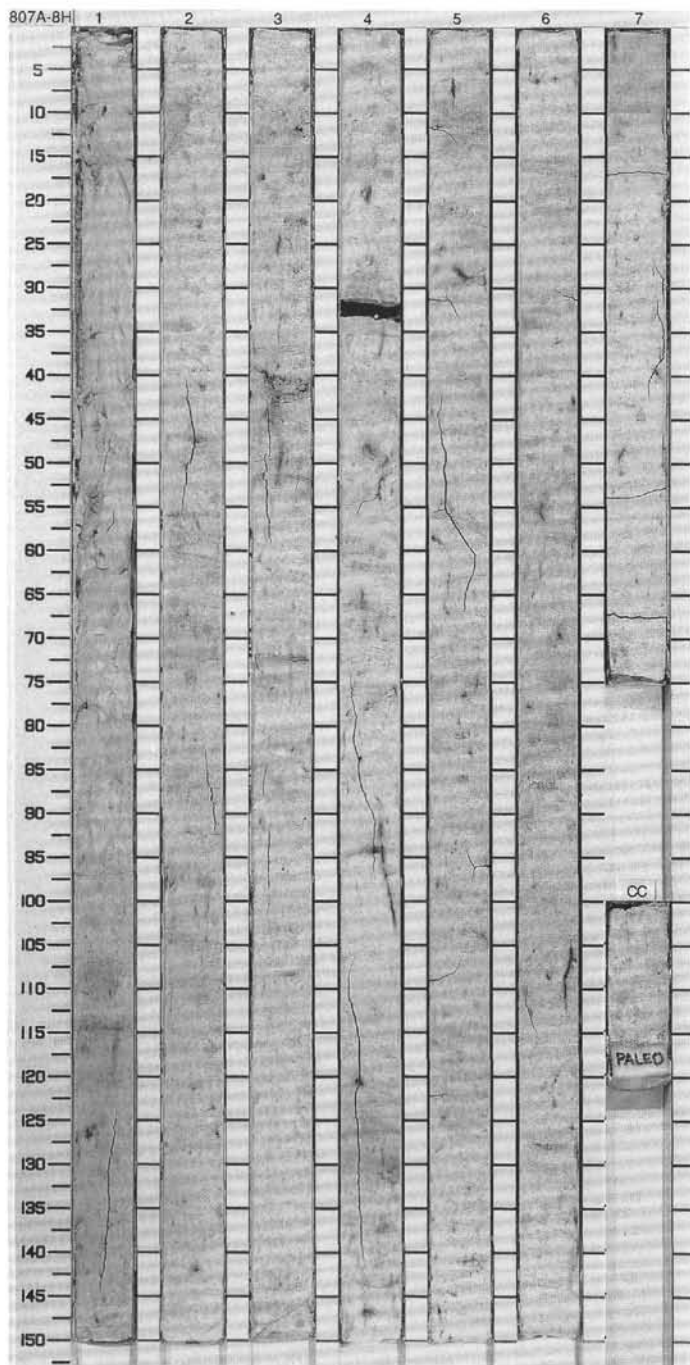


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS																														
UPPER PLIOCENE																																	
A/M	N21	NN16			V-1568 P-1.55 V-1568 P-1.52	●%CaCO ₃ =90.1	1	0.5 1.0					<p>NANNOFOSSIL OOZE with FORAMINIFERS to FORAMINIFER NANNOFOSSIL OOZE</p> <p>Major lithology: This core contains NANNOFOSSIL OOZE with FORAMINIFERS to FORAMINIFER NANNOFOSSIL OOZE. The sediment is white (2.5Y 8/0), grading to light gray (5Y 7/1) in the lower part of Section 7. Diffuse pale blue (5PB 7/2), light gray (N7), and light bluish gray (5B 7/1) zones, 3 to 10 cm wide, are present in Sections 3 through 5. Moderate to heavy bioturbation is indicated by light gray (5Y 7/2) and grayish blue (5PB 5/2) mottling. Very fine-grained pyrite filled burrows are seen in all sections. A 4 cm diameter burrow "halo" is noted in Section 5. Diffuse to distinct, light greenish gray (5G 7/1), pale purple (5P 6/2), and grayish blue (5PB 5/2), 0.5 to 1 cm wide color bands are present.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr><td></td><td>3.70</td></tr> <tr><td></td><td>0</td></tr> </table> <p>TEXTURE:</p> <table border="0"> <tr><td>Sand</td><td>10</td></tr> <tr><td>Silt</td><td>86</td></tr> <tr><td>Clay</td><td>4</td></tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr><td>Foraminifers</td><td>12</td></tr> <tr><td>Nannofossils</td><td>83</td></tr> <tr><td>Radiolarians</td><td>2</td></tr> <tr><td>Silicoflagellates</td><td>2</td></tr> <tr><td>Spicules</td><td>1</td></tr> </table>		3.70		0	Sand	10	Silt	86	Clay	4	Foraminifers	12	Nannofossils	83	Radiolarians	2	Silicoflagellates	2	Spicules	1
	3.70																																
	0																																
Sand	10																																
Silt	86																																
Clay	4																																
Foraminifers	12																																
Nannofossils	83																																
Radiolarians	2																																
Silicoflagellates	2																																
Spicules	1																																
A/M				V-1578 P-1.52	●%CaCO ₃ =90.2	2																											
A/M				V-1604 P-1.52	●%CaCO ₃ =91.5	3																											
R/P				V-1593 P-1.53	●%CaCO ₃ =91.7	4																											
				V-1589 P-1.55	●%CaCO ₃ =90.9	5																											
				V-1586 P-1.53	●%CaCO ₃ =92.0	6																											
				V-1575 P-1.56	●%CaCO ₃ =90.1	7																											

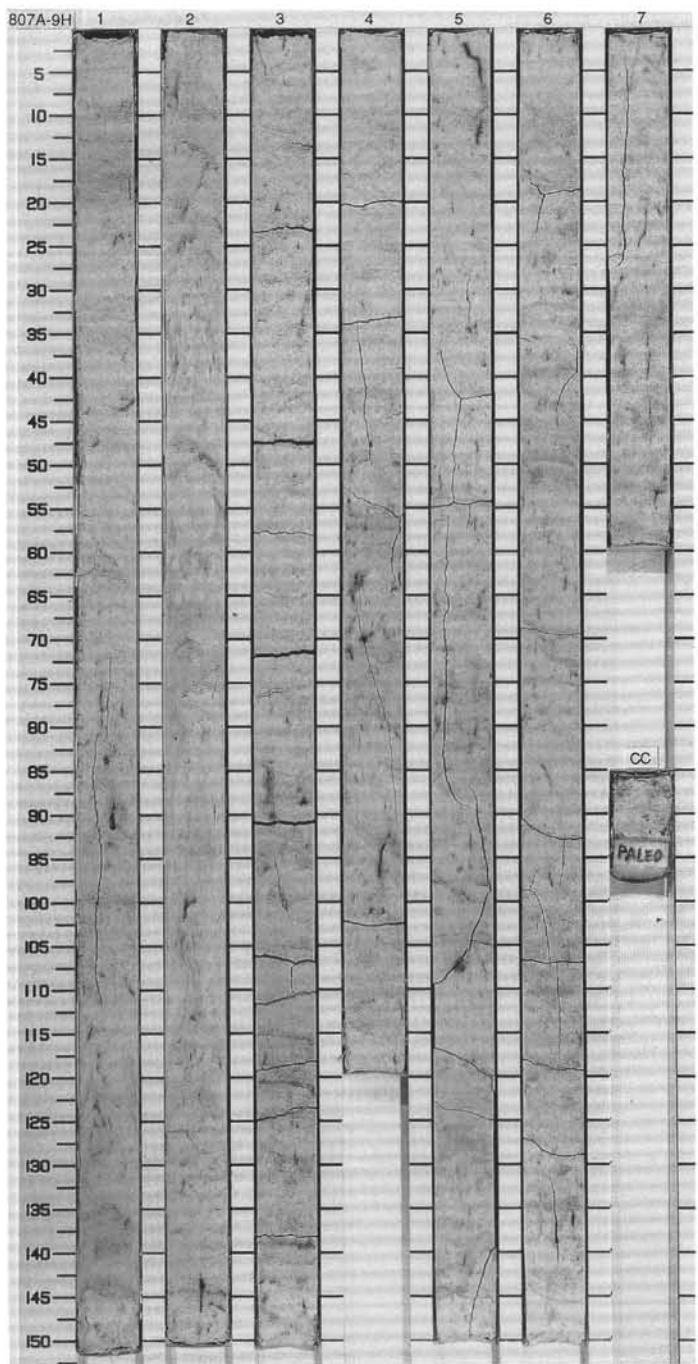


SITE 807 HOLE A CORE 8H CORED INTERVAL 64.4-73.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION											
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																					
UPPER PLIOGENE	A/G	N19 - N20												NANNOFOSSIL OOZE with FORAMINIFERS TO FORAMINIFER NANNOFOSSIL OOZE											
	A/M	NN16																							
	A/M	<i>Spongaster pentas</i>																							
	R/P	?																							
	V-1600	92.5	87.3	85.1											V-1604	96.9	92.3	1	0.5					Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL OOZE with FORAMINIFERS to FORAMINIFER NANNOFOSSIL OOZE. Bioturbation is generally light to moderate throughout this core, but is heavy in Section 4, 0-70 and 135-150 cm. Evidence for bioturbation includes cm scale, light gray (5Y 7/1) horizontal burrows, and mm to cm scale, grayish blue (5PB 5/2) pyrite-filled burrows. Horizontal light greenish gray (5G 7/1), pale purple (5P 5/2), and pale blue (5PB 7/2) color bands are present to common.	
		92.4	91.34	89.1											V-1553	92.4	89.2	2	1.0						
		92.4	91.34	89.1											V-1568	92.0	89.3	3	1.5						
	92.4	91.34	89.1	V-1568	92.0	89.3	4	2.0																	
	92.7	87.3	85.1	V-1571	92.0	89.3	5	2.5																	
	92.7	87.3	85.1	V-1571	92.0	89.3	6	3.0																	
	92.7	87.3	85.1	V-1571	92.0	89.3	7	3.5																	

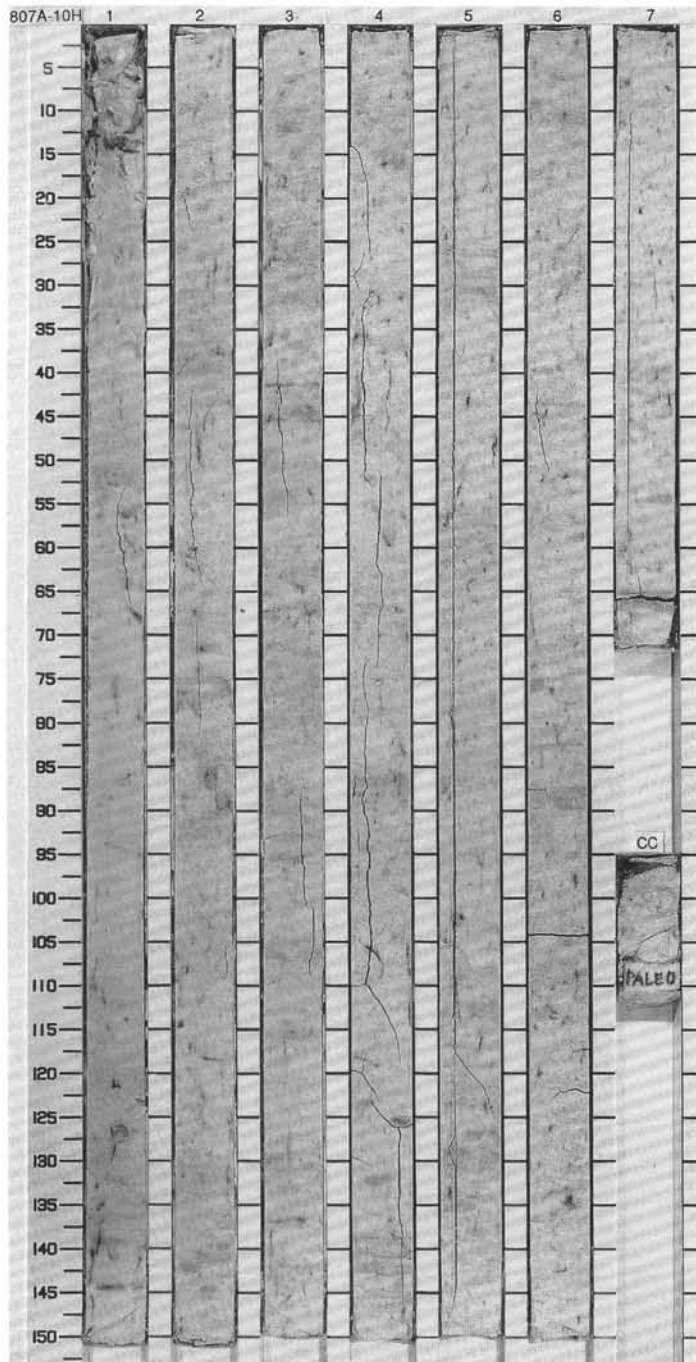


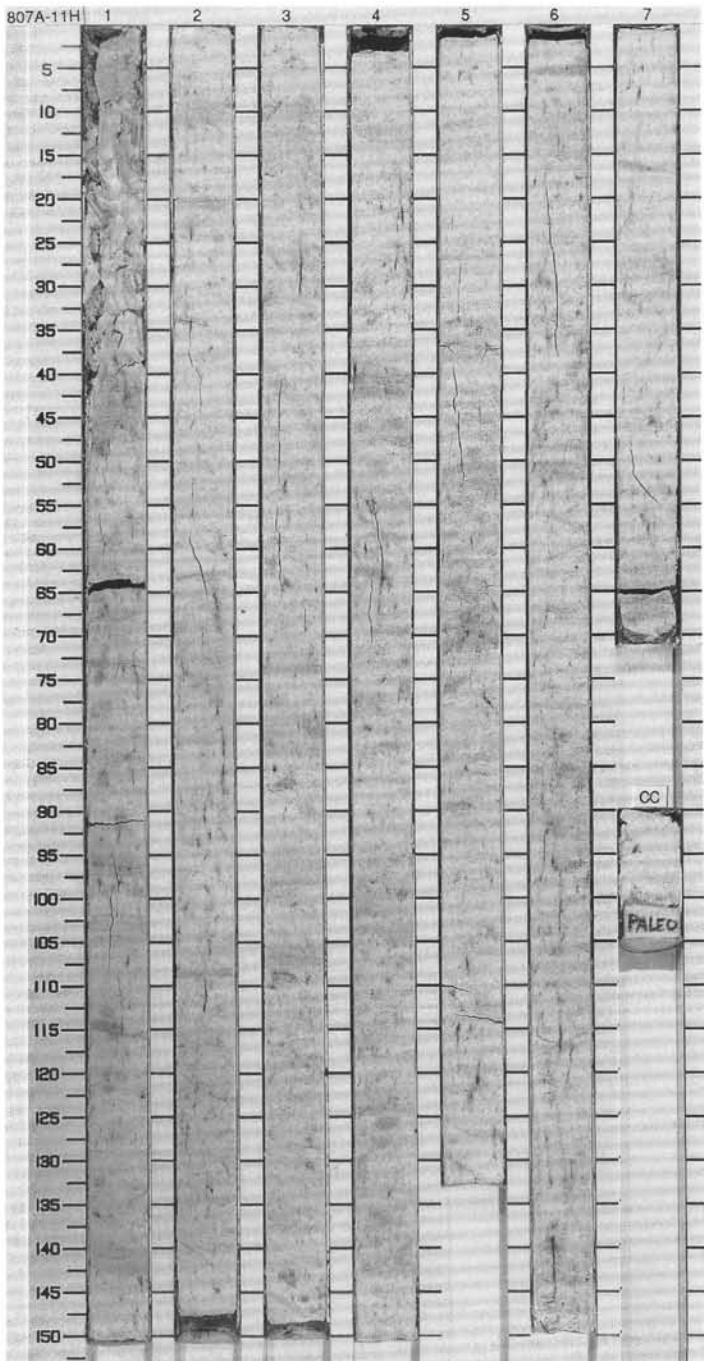
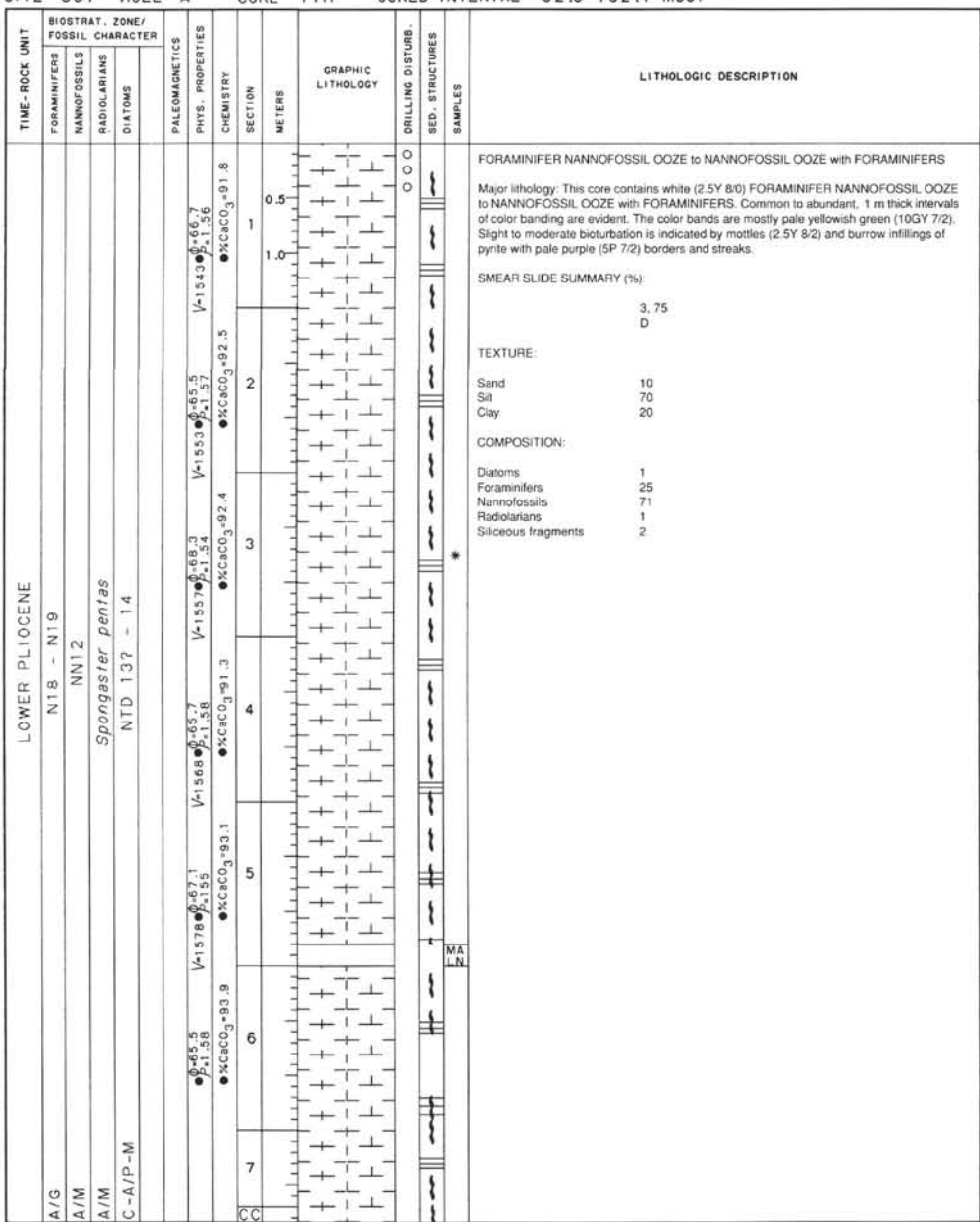
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS										
	RADIOLARIANS	DIAZONES										
LOWER PLIOCENE												
A/M	N19 - N20											NANNOFOSSIL OOZE with FORAMINIFERS to FORAMINIFER NANNOFOSSIL OOZE Major lithology. This core contains white (2.5Y 8/0) NANNOFOSSIL OOZE with FORAMINIFERS to FORAMINIFER NANNOFOSSIL OOZE. Slight to moderate bioturbation is indicated by pyritized, commonly vertical, dark gray (N4) burrows and associated grayish blue (5PB 5/2) mottling and "halos". Several cm scale, light gray (5Y 7/1) burrows and mottles are present. Distinct and diffuse, cm size, light greenish gray (5G 7/1) color bands are common throughout the core. Grayish blue (5PB 5/2) bands are present but less common. SMEAR SLIDE SUMMARY (%): D 1.99 TEXTURE: Sand 25 Silt 70 Clay 5 COMPOSITION: Foraminifers 20 Nannofossils 76 Radiolarians 3 Silicoflagellates 1
A/M	NN13 - NN14											
A/M	Spongaster pentas											
C/P-M	base NTD 15a	Rhizosolenia praebergonii										
	V-1560-67.1	V-1553-68.1	V-1557-66.0	V-1560-67.3	●%CaCO ₃ -91.5	●%CaCO ₃ -90.5	●%CaCO ₃ -91.5	●%CaCO ₃ -91.9	●%CaCO ₃ -91.9	●%CaCO ₃ -91.9	●%CaCO ₃ -91.9	
	V-1586-67.6	V-1550-68.6	V-1557-66.0	V-1560-67.3	●%CaCO ₃ -91.5	●%CaCO ₃ -90.5	●%CaCO ₃ -91.5	●%CaCO ₃ -91.9	●%CaCO ₃ -91.9	●%CaCO ₃ -91.9		
	V-1560-67.1	V-1553-68.1	V-1557-66.0	V-1560-67.3	●%CaCO ₃ -91.5	●%CaCO ₃ -90.5	●%CaCO ₃ -91.5	●%CaCO ₃ -91.9	●%CaCO ₃ -91.9	●%CaCO ₃ -91.9		



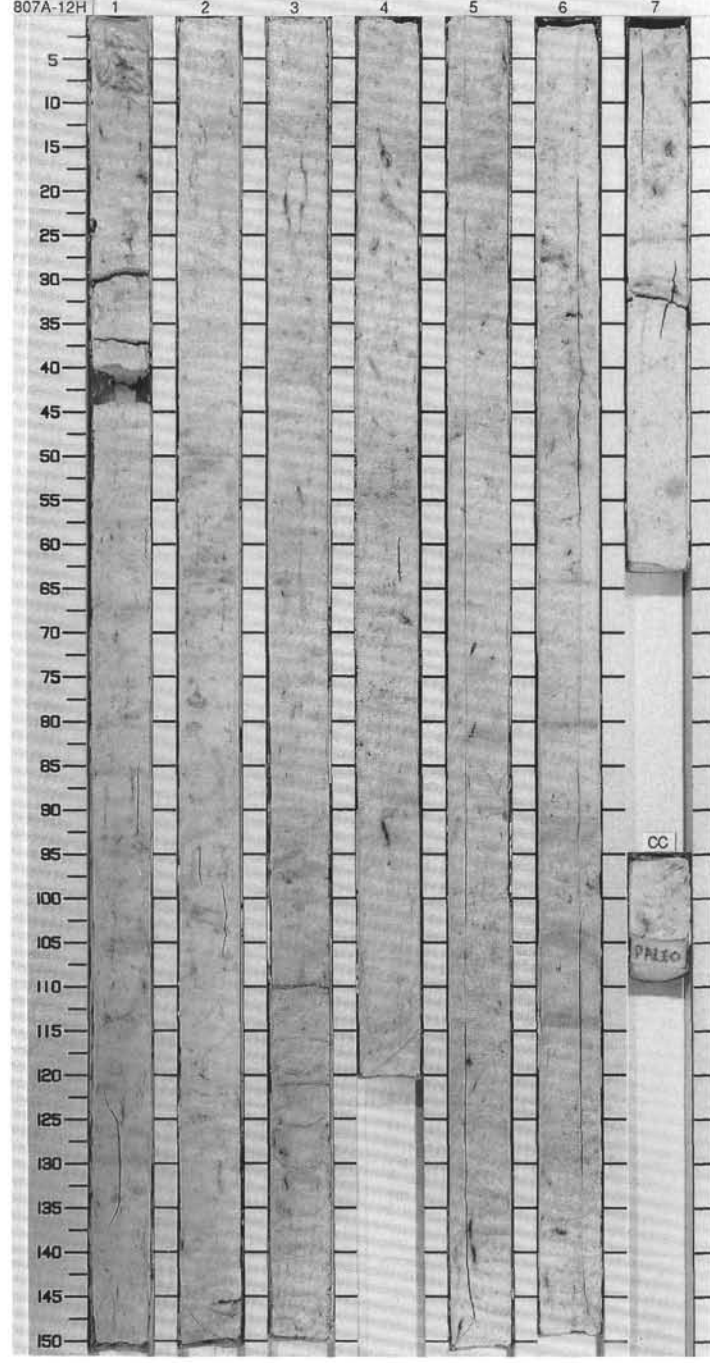
SITE 807 HOLE A CORE 10H CORED INTERVAL 83.4-92.9 mbsf

TIME-ROCK UNIT			PALEOMAGNETICS	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS	BIOSTRAT. ZONE/ FOSSIL CHARACTER								
			PHYS. PROPERTIES							
			CHEMISTRY							
A/G		LOWER PLIOCENE								
A/M		N18 - N19								
A/M		NN12								
A/M		<i>Spongaster pentas</i>								
C-A/P-M		NTD 14 <i>Nitzschia jouseae</i>								
			V-1589 0.67.9	V-1589 0.67.0	V-1589 0.67.0					
			0.1.56	0.1.56	0.1.56					
			0.92.3	0.92.1	0.92.1					
			0.92.5	0.92.1	0.92.1					
			0.57.0	0.57.0	0.57.0					
			0.1.57	0.1.56	0.1.56					
			0.92.3	0.92.1	0.92.1					
			0.57.9	0.57.0	0.57.0					
			0.1.56	0.1.56	0.1.56					
			0.92.3	0.92.1	0.92.1					
			0.57.9	0.57.0	0.57.0					
			0.1.56	0.1.56	0.1.56					
			0.92.3	0.92.1	0.92.1					
			0.57.9	0.57.0	0.57.0					
			0.1.56	0.1.56	0.1.56					
			0.92.3	0.92.1	0.92.1					
			0.57.9	0.57.0	0.57.0					
			0.1.56	0.1.56	0.1.56					
			0.92.3	0.92.1	0.92.1					
			0.57.9	0.57.0	0.57.0					
			0.1.56	0.1.56	0.1.56					
			0.92.3	0.92.1	0.92.1					
			0.57.9	0.57.0	0.57.0					
			0.1.56	0.1.56	0.1.56					
			0.92.3	0.92.1	0.92.1					
			0.57.9	0.57.0	0.57.0					
			0.1.56	0.1.56	0.1.56					
			0.92.3	0.92.1	0.92.1					
			0.57.9	0.57.0	0.57.0					
			0.1.56	0.1.56	0.1.56					
			0.92.3	0.92.1	0.92.1					

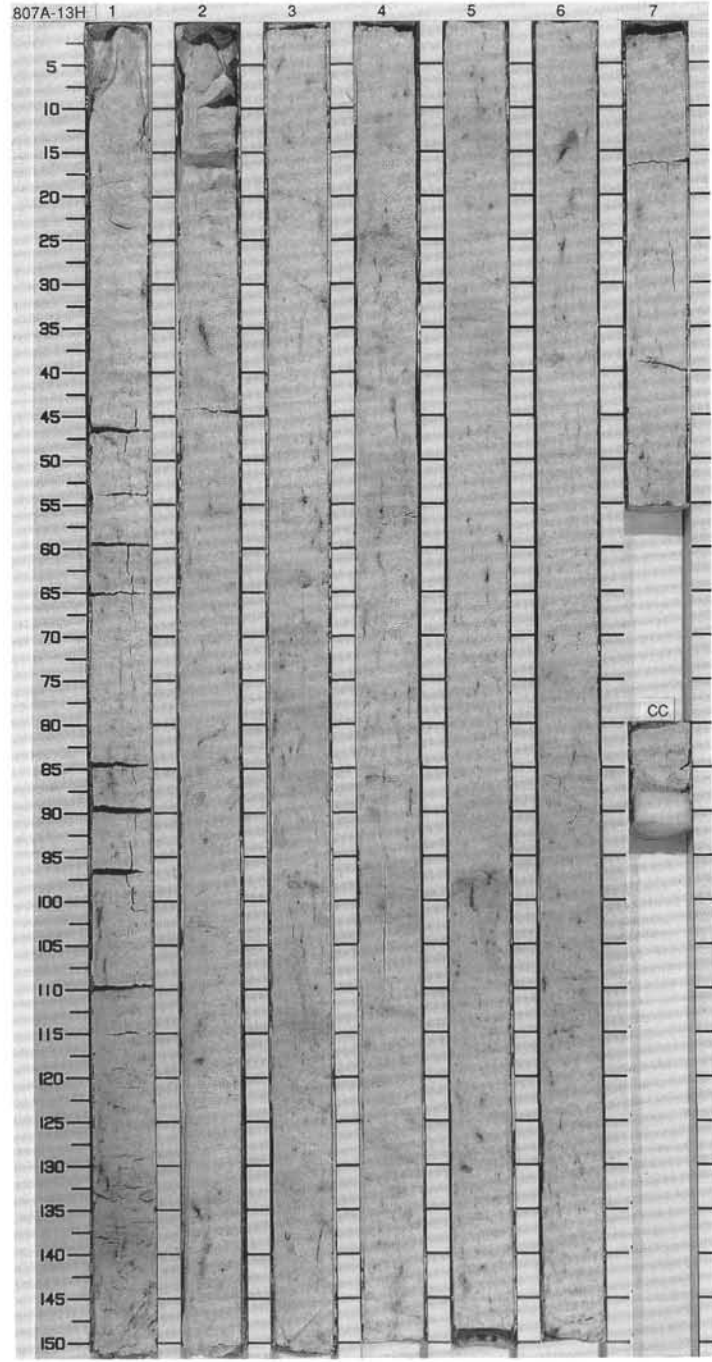




TIME - ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADOLIARIANS										
LOWER PLOCENE	N18 - N19												<p>NANNOFOSSIL OOZE with FORAMINIFERS</p> <p>Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL OOZE with FORAMINIFERS. Greenish gray (5G 7/1), pale yellowish green (10GY 7/2), and pale purple (5P 6/2) color banding is common. Moderate to heavy bioturbation is evident from abundant cm scale, light gray (2.5Y 7/2) mottles, pyrite-filled burrows, disseminated pyrite specks and pale purple (5P 6/2) mottles.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="padding-left: 20px;">3.75 D</p> <p>TEXTURE:</p> <p>Sand 10 Silt 70 Clay 20</p> <p>COMPOSITION:</p> <p>Diatoms Tr Foraminifers 20 Nannofossils 78 Radiolarians Tr Siliceous fragments 2</p>
A/G													
A/M													
A/M													
C.-A/P-M													
	N12	<i>Spongaster pentas</i>											
	NTD 13	<i>Thalassiosira convexa</i>											

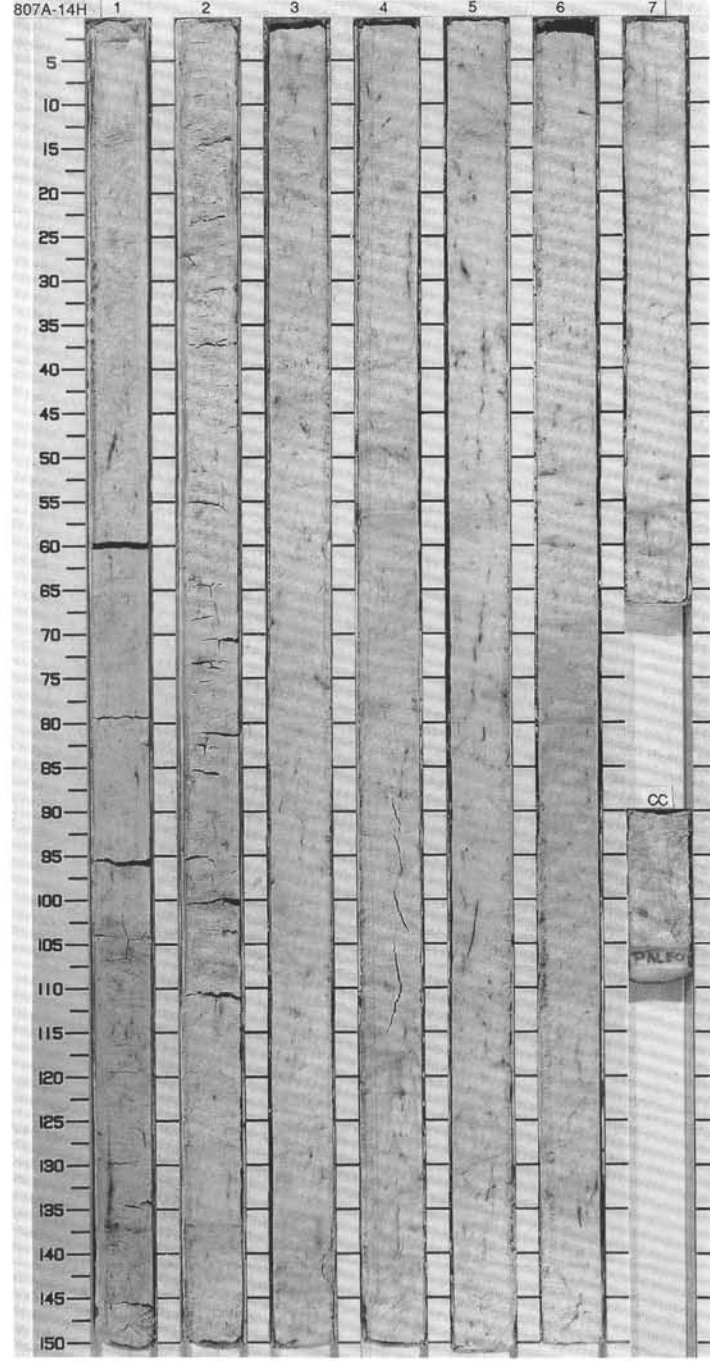


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
LOWER PLIOGENE													
A/G	N18 - N19							0.5					<p>NANNOFOSSIL OOZE with FORAMINIFERS</p> <p>Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL OOZE with FORAMINIFERS. The sediment is moderately bioturbated, as indicated by white (2.5Y 8/2) and pale purple (5P 6/2) mottles, pyrite-filled burrows, and "halos". Very low diffuse cm thick, greenish gray (5G 7/1) and pale purple (5P 6/2) color bands and zones are present throughout the core.</p> <p>SMEAR SLIDE SUMMARY (%)</p> <p>D 3.74</p> <p>TEXTURE:</p> <p>Sand 12 Silt 55 Clay 33</p> <p>COMPOSITION:</p> <p>Accessory minerals 2 Diatoms Tr Foraminifers 14 Nannofossils 61 Radiolarians Tr Siliceous fragments 3</p>
A/M	NN12						1.0						
A/G	<i>Stichocorys peregrina</i>												
C/P-M													



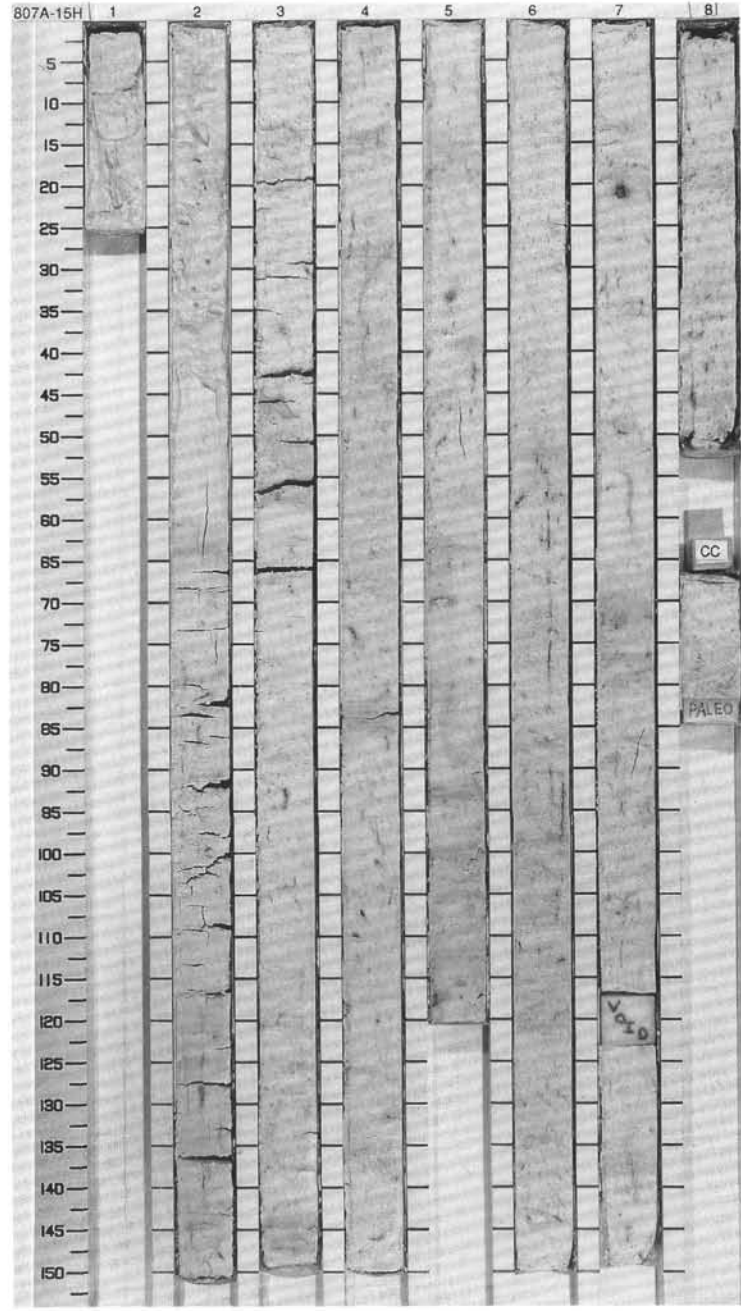
SITE 807 HOLE A CORE 14H CORED INTERVAL 121.4-130.9 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION	
FORAMINIFERS	FORAMINIFERS	NANNOFOSSILS	NANNOFOSSILS										
A/M		N17b										FORAMINIFER NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS Major lithology: This core contains white (2.5Y 8/0) FORAMINIFER NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS. The sediment is moderately to heavily bioturbated, as indicated by light gray (2.5Y 7/2) and pale purple (5P 6/2) mottles and pyrite-filled burrows and specks. A few diffuse cm scale, faint greenish gray (5G 7/1) and very few pale purple (5P 6/2) color bands are noted throughout the core. SMEAR SLIDE SUMMARY (%): 3.74 D TEXTURE: Sand 15 Silt 55 Clay 30 COMPOSITION: Accessory minerals 1 Diatoms Tr Foraminifers 27 Nannofossils 69 Radiolarians Tr Siliceous fragments 3	
A/M		NN11											
A/G		<i>Sticnocypris peregrina</i>											
C-A/P-M		NTD 13? <i>Thalassiosira convexa</i>											
				V=1605 0.64.3 P=1.62 %CaCO ₃ =93.3									
				V=1605 0.04.6 P=1.61 %CaCO ₃ =91.4									
				V=1583 0.86.2 P=1.59 %CaCO ₃ =89.0									
				V=1575 0.86.2 P=1.59 %CaCO ₃ =92.5									
CC													



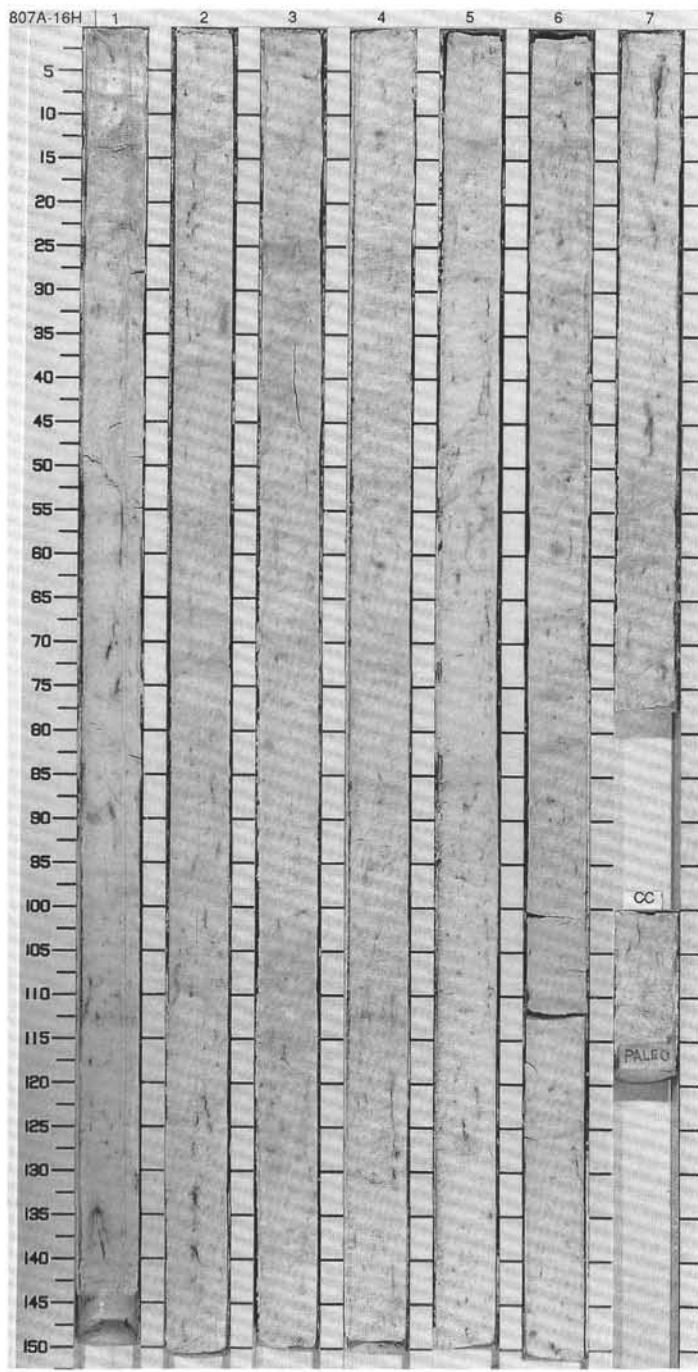
SITE 807 HOLE A CORE 15H CORED INTERVAL 130.9-140.4 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLIARIANS	DIATOMS										
UPPER MIOCENE														
A/M	N17b													
A/M	NN11													
C-A/P-M														
					V-1565-63.8 P-1.63 ●%CaCO ₃ =92.8									
					V-1554-63.2 P-1.63 ●%CaCO ₃ =91.5									
					V-1579-67.0 P-1.57 ●%CaCO ₃ =91.1									
					V-1561-66.6 P-1.59 ●%CaCO ₃ =83.0									

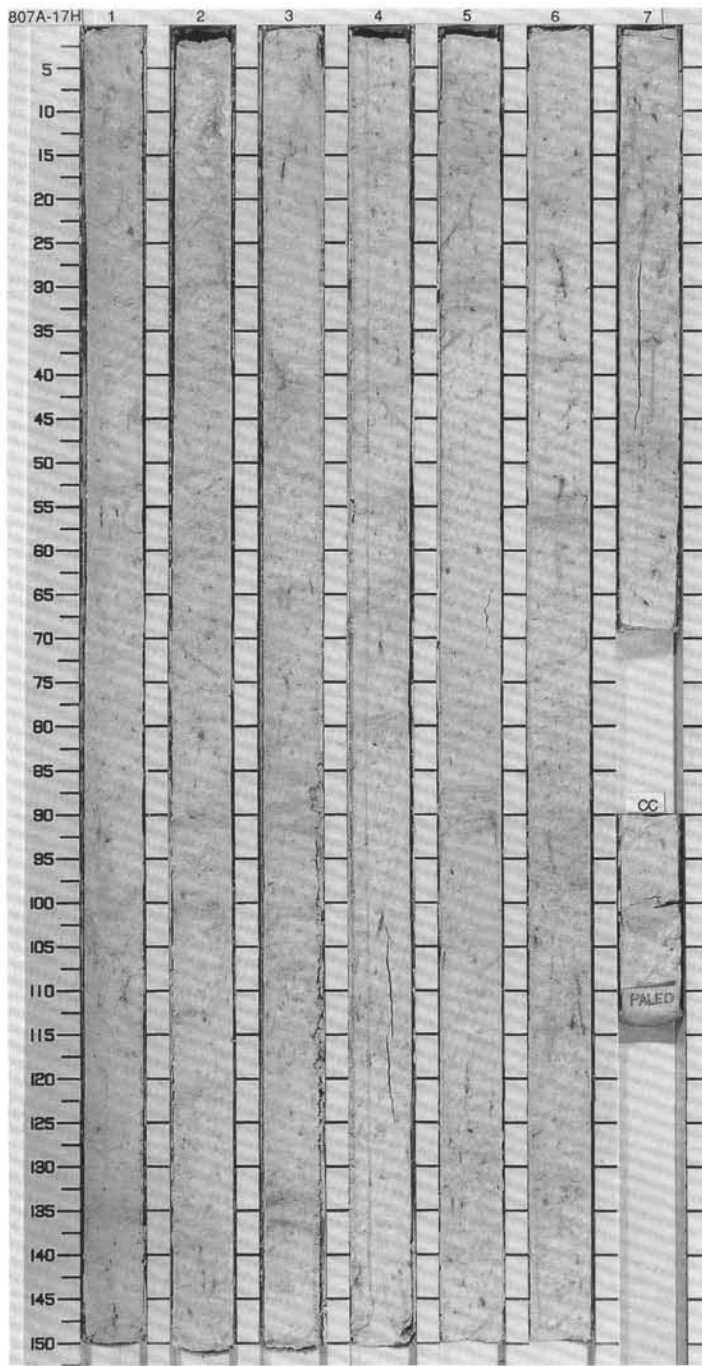


SITE 807 HOLE A CORE 16H CORED INTERVAL 140.4-149.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
UPPER MIOCENE													
A/G	NI 7b												
A/M	NN 11												
A/M	<i>Stichocorys peregrina</i>												
C/P-M	NTD 12?												
					V-1554-84.9 2.1 60	V-1554-84.9 2.1 60	●%CaCO ₃ =93.0	1	0.5				
					V-1554-83.4 2.1 63	V-1554-83.4 2.1 63	●%CaCO ₃ =92.1	2	1.0				
					V-1558-82.5 2.1 63	V-1558-82.5 2.1 63	●%CaCO ₃ =93.2	3					
					V-1605-83.0 2.1 64	V-1605-83.0 2.1 64	●%CaCO ₃ =93.5	4					
					V-1605-83.8 2.1 63	V-1605-83.8 2.1 63	●%CaCO ₃ =83.0	5					
					V-1590-83.7 2.1 67	V-1590-83.7 2.1 67	●%CaCO ₃ =93.7	6					
					V-1605-80.8 2.1 67	V-1605-80.8 2.1 67	●%CaCO ₃ =83.0	7					
								CC					

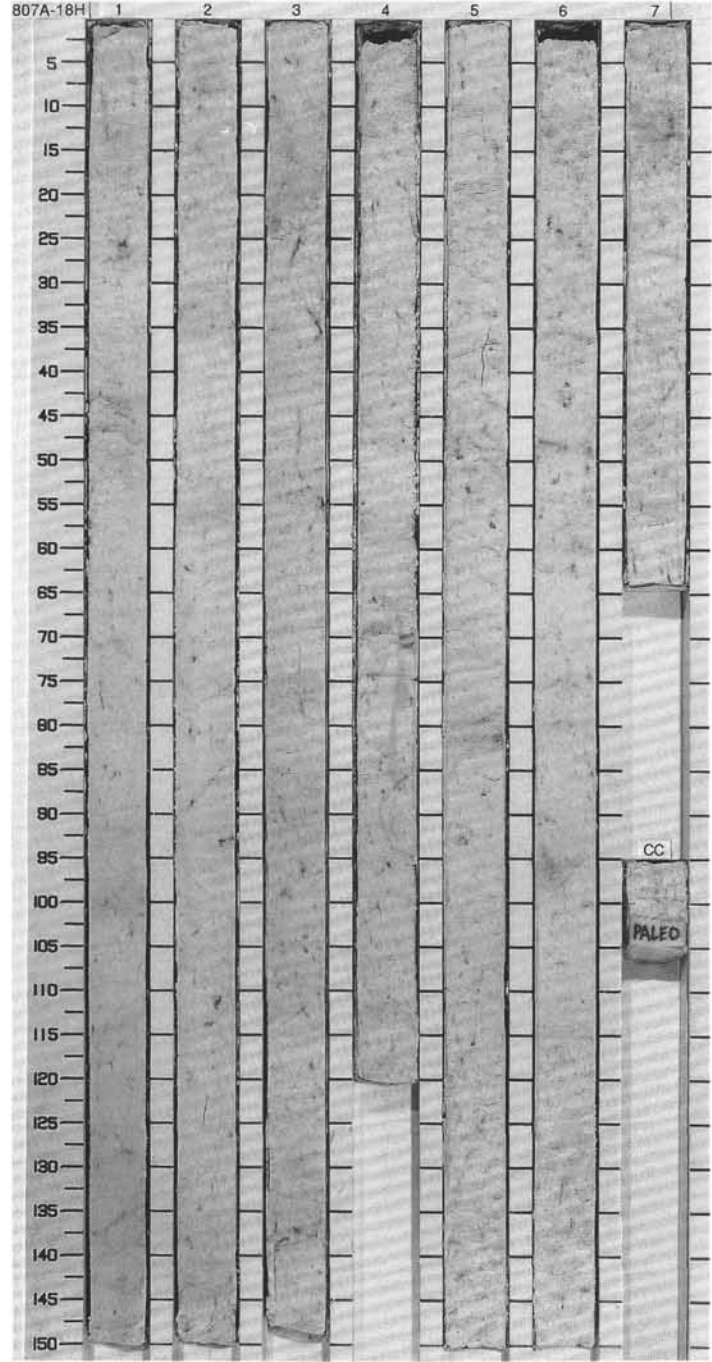


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
UPPER MIOCENE													
A/M	N17b												
A/P	N111												
C-A/M	NTD 12 <i>Nitzschia miocenica</i>												
	V-1624 P ₁ 1.86	V-1594 P ₁ 1.86	V-1598 P ₁ 1.81	V-1568 P ₁ 1.81	V-1598 P ₁ 1.81	V-1598 P ₁ 1.81	V-1598 P ₁ 1.81	0-03.4 XCaCO ₃ -94.0					
	V-1624 P ₁ 1.86	V-1594 P ₁ 1.86	V-1598 P ₁ 1.81	V-1568 P ₁ 1.81	V-1598 P ₁ 1.81	V-1598 P ₁ 1.81	V-1598 P ₁ 1.81	0-02.4 XCaCO ₃ -92.9					
	V-1624 P ₁ 1.86	V-1594 P ₁ 1.86	V-1598 P ₁ 1.81	V-1568 P ₁ 1.81	V-1598 P ₁ 1.81	V-1598 P ₁ 1.81	V-1598 P ₁ 1.81	0-02.4 XCaCO ₃ -92.8					
	V-1624 P ₁ 1.86	V-1594 P ₁ 1.86	V-1598 P ₁ 1.81	V-1568 P ₁ 1.81	V-1598 P ₁ 1.81	V-1598 P ₁ 1.81	V-1598 P ₁ 1.81	0-03.9 XCaCO ₃ -93.1					
	V-1624 P ₁ 1.86	V-1594 P ₁ 1.86	V-1598 P ₁ 1.81	V-1568 P ₁ 1.81	V-1598 P ₁ 1.81	V-1598 P ₁ 1.81	V-1598 P ₁ 1.81	0-02.4 XCaCO ₃ -93.7					
	V-1624 P ₁ 1.86	V-1594 P ₁ 1.86	V-1598 P ₁ 1.81	V-1568 P ₁ 1.81	V-1598 P ₁ 1.81	V-1598 P ₁ 1.81	V-1598 P ₁ 1.81	0-02.1 XCaCO ₃ -92.9					
	V-1624 P ₁ 1.86	V-1594 P ₁ 1.86	V-1598 P ₁ 1.81	V-1568 P ₁ 1.81	V-1598 P ₁ 1.81	V-1598 P ₁ 1.81	V-1598 P ₁ 1.81	0-03.3 XCaCO ₃ -93.3					

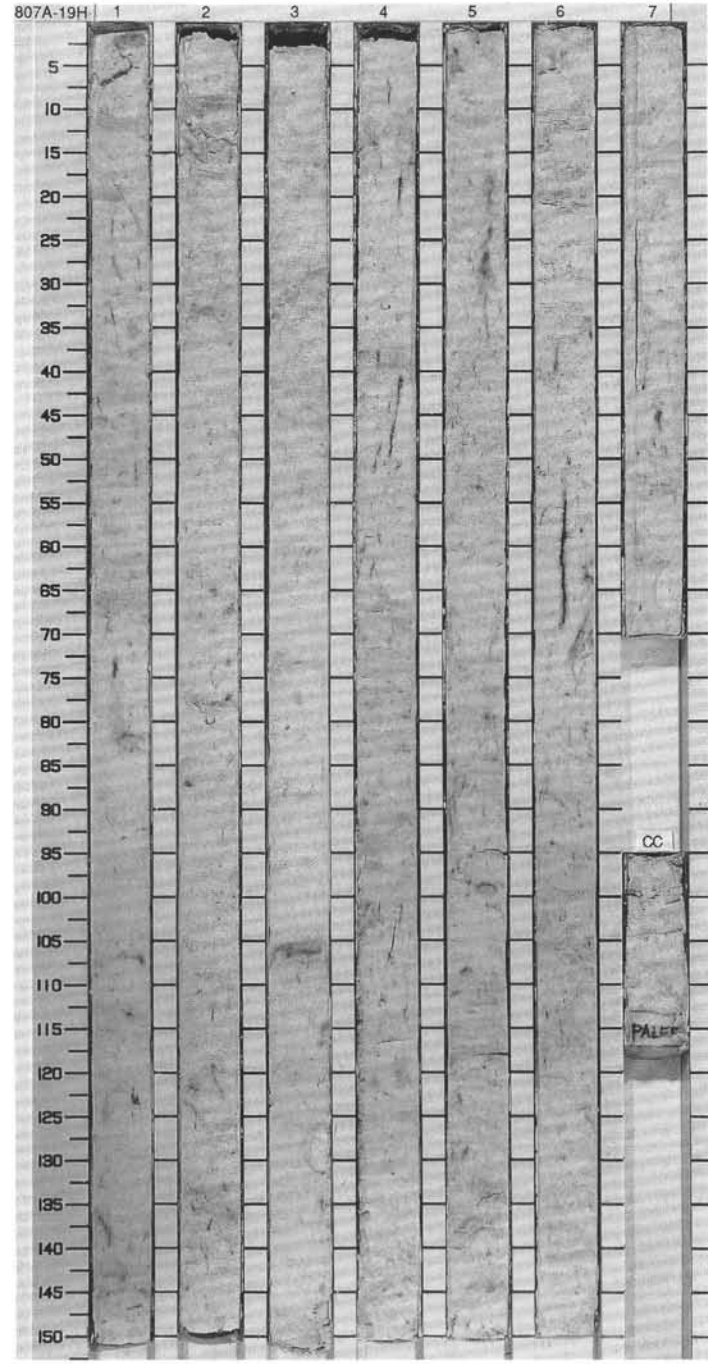


SITE 807 HOLE A CORE 18H CORED INTERVAL 159.4-168.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
UPPER MIOCENE													
A/G	N17a												
A/M	NN11												
A/G	<i>Stichocorys peregrina</i>												
A/M	NTD 12 <i>Nitzschia miocenica</i>												
		V-1603-0-63.8 P-1.62 ●%CaCO ₃ =83.0	V-1603-0-63.4 P-1.63 ●%CaCO ₃ =93.0										
		V-1590-0-63.4 P-1.61 ●%CaCO ₃ =92.5	V-1590-0-63.4 P-1.63 ●%CaCO ₃ =93.0										
		V-1601-0-65.2 P-1.61 ●%CaCO ₃ =92.5	V-1601-0-65.2 P-1.63 ●%CaCO ₃ =93.0										
		V-1554-0-62.8 P-1.63 ●%CaCO ₃ =93.0	V-1554-0-62.8 P-1.63 ●%CaCO ₃ =93.0										
		V-1598-0-63.6 P-1.63 ●%CaCO ₃ =93.3	V-1598-0-63.6 P-1.63 ●%CaCO ₃ =93.5										
		V-1575-0-62.8 P-1.63 ●%CaCO ₃ =93.0	V-1575-0-62.8 P-1.63 ●%CaCO ₃ =93.0										
		V-1588-0-63.3 P-1.63 ●%CaCO ₃ =93.3	V-1588-0-63.3 P-1.63 ●%CaCO ₃ =93.5										

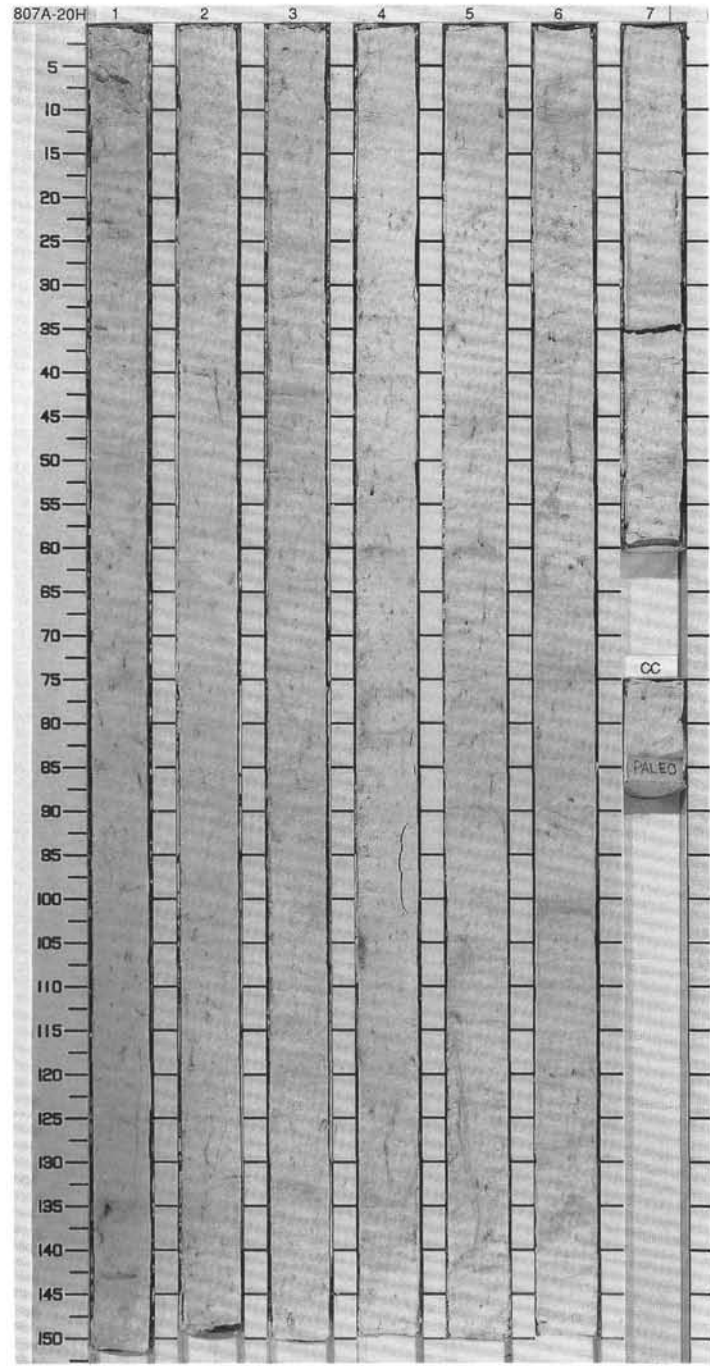


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
		FORAMINIFERS	NANNOFOSSILS	RADIODIARIANS	DIATOMS										
A/G	UPPER MIOCENE	N17a												<p>NANNOFOSSIL OOZE with FORAMINIFERS to FORAMINIFER NANNOFOSSIL OOZE</p> <p>Major lithology: This core contains white (2.5Y 8/2) NANNOFOSSIL OOZE with FORAMINIFERS interbedded with FORAMINIFER NANNOFOSSIL OOZE. Very faint pale greenish gray (5G 7/1), 0.5 cm thick color bands are common to abundant. Pale purple (5P 6/2) to reddish gray (5R 6/1), 1 to 2 cm thick, color bands are also present. There are abundant pyrite-filled burrows and light gray (2.5Y 7/2) mottles, suggesting moderate to heavy bioturbation. The pyrite-filled trace structures are very dusky purple (5P 2/2) in the center with borders of pale purple (5P 6/2) and occur as specks, patches and vertical traces. Pale purple (5P 6/2) color migration fronts, which form "halo" like structures, are also present.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>Sand 3.75 Silt D Clay</p> <p>TEXTURE:</p> <p>Sand 10 Silt 60 Clay 30</p> <p>COMPOSITION:</p> <p>Accessory minerals Tr Foraminifers 25 Nannofossils 75 Siliceous fragments Tr</p>	
A/P		NN11				V-1579 $\beta_{1.63}$ 62.8 V-1579 $\beta_{1.63}$ 62.7	•%CaCO ₃ =93.5	1	0.5						
A/M		<i>Didymocyrtis penultima</i>				V-1586 $\beta_{1.65}$ 62.8 V-1579 $\beta_{1.65}$ 62.7	•%CaCO ₃ =93.5	2	1.0						
C-A/M		NTD 12 <i>Nitzschia miocenica</i>				V-1586 $\beta_{1.65}$ 62.8 V-1586 $\beta_{1.65}$ 62.7	•%CaCO ₃ =93.2	3							
						V-1568 $\beta_{1.64}$ 63.1 V-1609 $\beta_{1.64}$ 63.6	•%CaCO ₃ =94.5	4							
						V-1605 $\beta_{1.64}$ 63.6 V-1609 $\beta_{1.64}$ 63.6	•%CaCO ₃ =92.2	5							
						V-1609 $\beta_{1.64}$ 63.6 V-1609 $\beta_{1.64}$ 63.6	•%CaCO ₃ =93.5	6							
								7							
								CC							

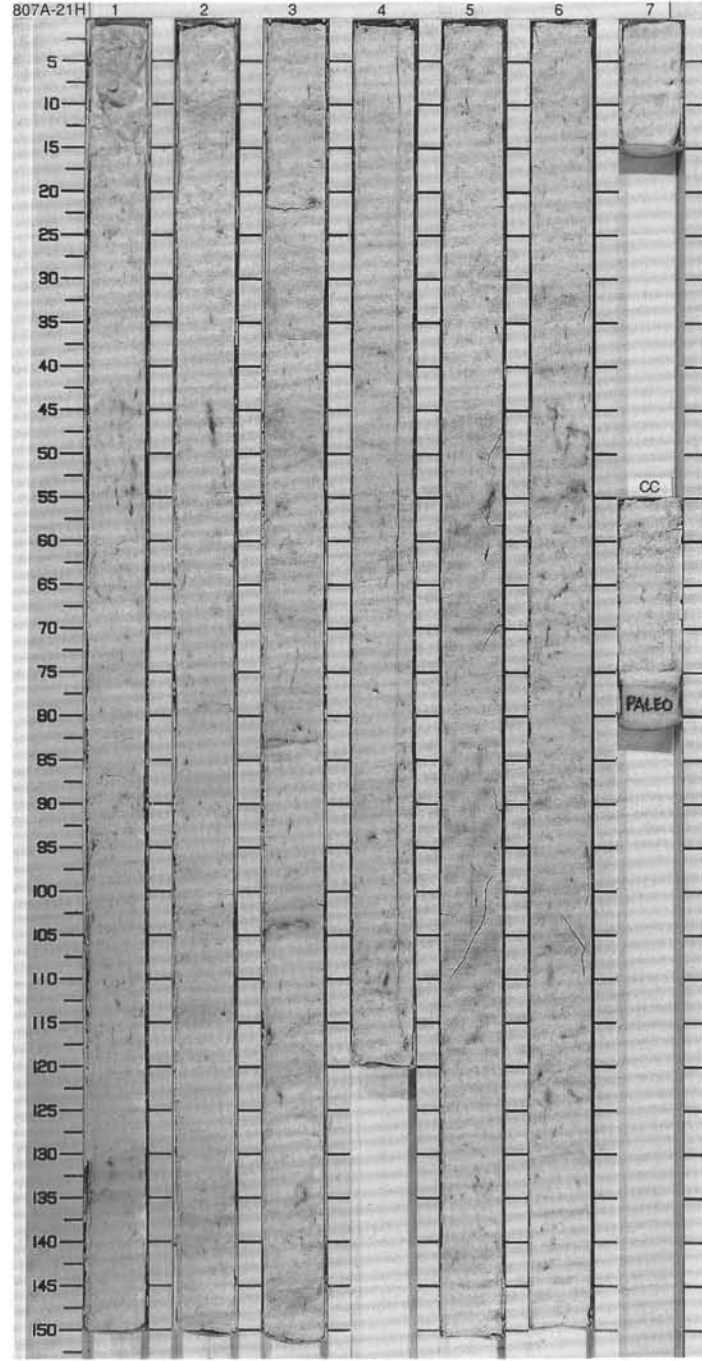


SITE 807 HOLE A CORE 20H CORED INTERVAL 178.4-187.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS									
UPPER MIOCENE												
A/G	N17a				V-1509-63.5	%CaCO ₃ =93.0		0.5				<p>NANNOFOSSIL OOZE with FORAMINIFERS</p> <p>Major lithology: This core contains white (2.5 7/2) NANNOFOSSIL OOZE with FORAMINIFERS. Pyritized burrows and light gray (2.5Y 7/2) mottles are abundant. Very faint greenish gray (5G 7/1), 0.5 cm thick color bands are common. Microfaults are observed at 140-150 cm in Sections 4 and 6. A large pale purple (5P 7/1) swirl is observed between 95 and 135 cm in Section 5, possibly indicating that the color, in this case, is related to fluid migration.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">D 3.75</p> <p>TEXTURE:</p> <p>Sand 10 Silt 70 Clay 20</p> <p>COMPOSITION:</p> <p>Diatoms Tr Foraminifers 20 Nannofossils 79 Radiolarians Tr Siliceous fragments 1</p>
A/P	NN11			V-1594-62.7	%CaCO ₃ =93.0		1.0					
A/G	<i>D. didymocyrtis penultima</i>			V-1575-61.4	%CaCO ₃ =84.1		2.0					
C/P-M	NTD 11?			V-1575-61.4	%CaCO ₃ =84.1		3.0					
				V-1590-63.2	%CaCO ₃ =93.5		4.0					
				V-1583-60.5	%CaCO ₃ =93.6		5.0					
				V-1616-61.8	%CaCO ₃ =84.1		6.0					
							7.0					

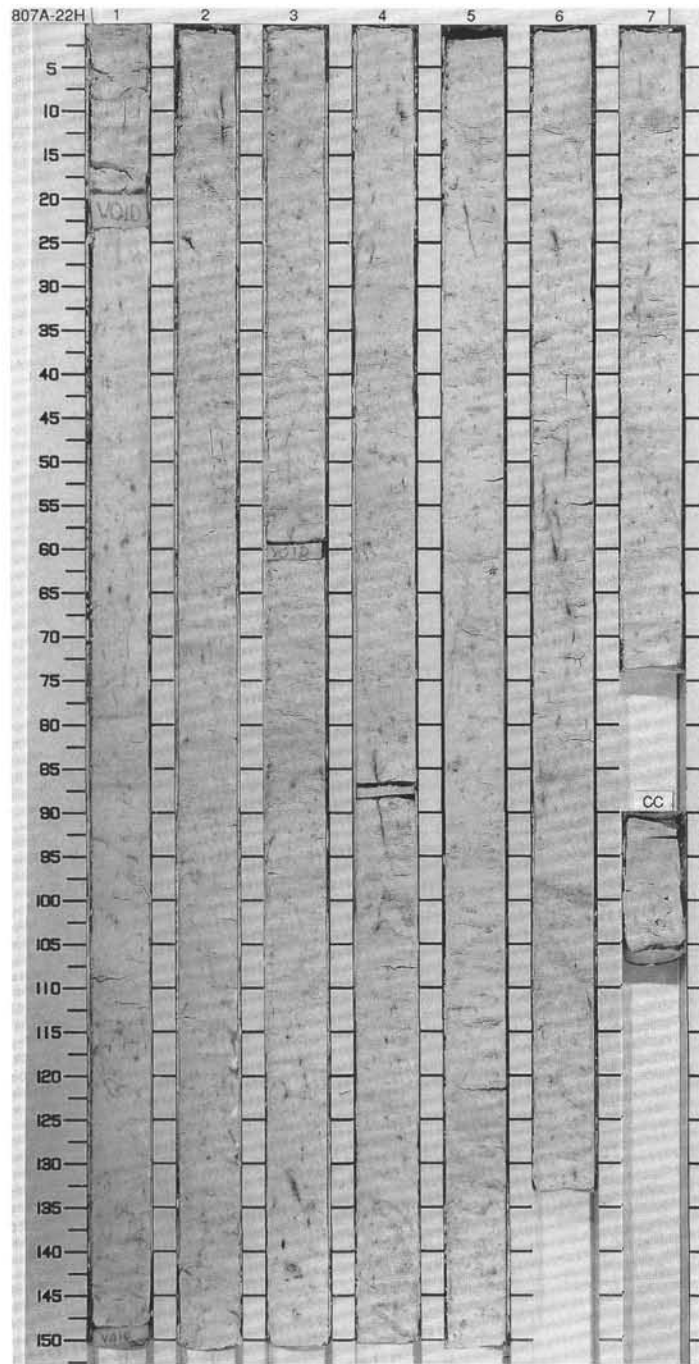


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS																														
	DIATOMS																																
UPPER MIOCENE																																	
A/M	N17a																																
A	N11																																
A/M	<i>Didymocyrtis penultima</i>																																
C/M	NTD 11 <i>Nitzschia porteri</i>																																
	V-1547	V-1586	V-1594	V-1590	V-1398	V-1581	V-1547																										
	60.5	62.6	62.3	62.7	62.9	63.0	63.8																										
	1.69	1.65	1.64	1.65	1.64	1.64	1.8																										
	%CaCO ₃	%CaCO ₃	%CaCO ₃	%CaCO ₃	%CaCO ₃	%CaCO ₃	%CaCO ₃																										
	93.0	93.5	94.3	92.9	92.7	93.0	93.8																										
	1	2	3	4	5	6	7																										
CC	<p>NANNOFOSSIL OOZE with FORAMINIFERS</p> <p>Major lithology: This core contains slightly to moderately bioturbated, white (2.5Y 8/0) NANNOFOSSIL OOZE with FORAMINIFERS. The bioturbation structures include mm to cm scale, grayish blue (5PB 5/2) pyrite-filled burrows. In Sections 3 and 6, these fills outline the spreiten in individual <i>Zoophycos</i> trace fossils. Diffuse light greenish gray (5G 7/1), pale purple (5PB 7/2), and grayish blue (5PB 5/2) color bands are common to abundant, ranging in thickness from 0.5 cm to several cm. Individual color bands are microfaulted near the tops of Sections 3 and 4.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr><td>4.69</td></tr> <tr><td>D</td></tr> </table> <p>TEXTURE:</p> <table border="1"> <tr><td>Sand</td><td>14</td></tr> <tr><td>Silt</td><td>82</td></tr> <tr><td>Clay</td><td>4</td></tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr><td>Diatoms</td><td>1</td></tr> <tr><td>Foraminifers</td><td>15</td></tr> <tr><td>Nannofossils</td><td>78</td></tr> <tr><td>Radiolarians</td><td>2</td></tr> <tr><td>Silicoflagellates</td><td>3</td></tr> <tr><td>Spicules</td><td>1</td></tr> </table>													4.69	D	Sand	14	Silt	82	Clay	4	Diatoms	1	Foraminifers	15	Nannofossils	78	Radiolarians	2	Silicoflagellates	3	Spicules	1
4.69																																	
D																																	
Sand	14																																
Silt	82																																
Clay	4																																
Diatoms	1																																
Foraminifers	15																																
Nannofossils	78																																
Radiolarians	2																																
Silicoflagellates	3																																
Spicules	1																																

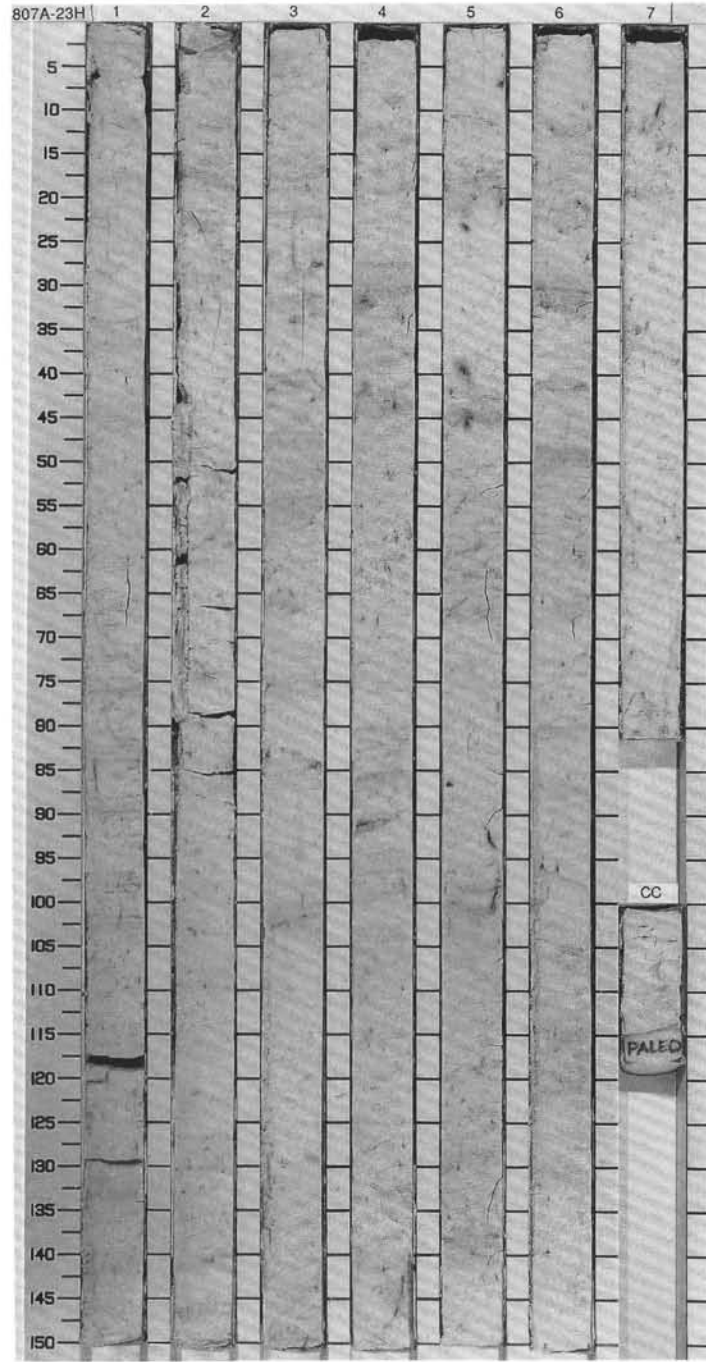


SITE 807 HOLE A CORE 22H CORED INTERVAL 197.4-206.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																										
	PALEOMAGNETICS																													
UPPER MIOCENE	A/G	NI7a								<p>NANNOFOSSIL OOZE with FORAMINIFERS</p> <p>Major lithology: This core contains moderately bioturbated, white (2.5Y 8/0) NANNO-FOSSIL OOZE with FORAMINIFERS. Bioturbation structures include mm to cm scale, grayish blue (5PB 5/2) pyrite-filled burrows, and light gray (2.5Y 7/2 and 5Y 7/1) mottling. Light greenish gray (5G 7/1), grayish blue (5PB 5/2), and pale purple (5PB 7/2) diffuse color banding is present to abundant.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table> <tr><td>3, 92</td></tr> <tr><td>D</td></tr> </table> <p>TEXTURE</p> <table> <tr><td>Sand</td><td>10</td></tr> <tr><td>Silt</td><td>86</td></tr> <tr><td>Clay</td><td>4</td></tr> </table> <p>COMPOSITION:</p> <table> <tr><td>Diatoms</td><td>1</td></tr> <tr><td>Foraminifers</td><td>12</td></tr> <tr><td>Nannofossils</td><td>81</td></tr> <tr><td>Radiolarians</td><td>3</td></tr> <tr><td>Silicoflagellates</td><td>2</td></tr> <tr><td>Spicules</td><td>1</td></tr> </table>	3, 92	D	Sand	10	Silt	86	Clay	4	Diatoms	1	Foraminifers	12	Nannofossils	81	Radiolarians	3	Silicoflagellates	2	Spicules	1
	3, 92																													
	D																													
	Sand	10																												
	Silt	86																												
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Radiolarians	3																													
Silicoflagellates	2																													
Spicules	1																													
A/P	NI11																													
A/M		<i>Dymocorytis penultima</i>																												
C/P-M		NTD 11	<i>Nitascchia porteri</i>																											
				V-1590 ● 50.9 P-11.68																										
				V-1579 ● 43.1 P-11.66																										
				V-1609 ● 50.7 P-11.68																										
				V-1586 ● 61.5 P-11.67																										
				V-1575 ● 50.9 P-11.68																										
				V-1620 ● 51.6 P-11.68																										
				V-1603 ● 49.3 P-11.66																										
				V-1580 ● 63.1 P-11.67																										
				V-1589 ● 64.4 P-11.67																										
				V-1587 ● 59.7 P-11.68																										
				V-1588 ● 59.7 P-11.68																										
				V-1589 ● 59.7 P-11.68																										
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				V-1603 ● 50.9 P-11.68																										
				V-1604 ● 50.9 P-11.68																										
				V-1605 ● 50.9 P-11.68																										
				V-1606 ● 50.9 P-11.68																										
				V-1607 ● 50.9 P-11.68																										
				V-1608 ● 50.9 P-11.68																										
				V-1609 ● 50.9 P-11.68																										
				V-1610 ● 50.9 P-11.68																										
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				V-1613 ● 50.9 P-11.68																										
				V-1614 ● 50.9 P-11.68																										
				V-1615 ● 50.9 P-11.68																										
				V-1616 ● 50.9 P-11.68																										
				V-1617 ● 50.9 P-11.68																										
				V-1618 ● 50.9 P-11.68																										
				V-1619 ● 50.9 P-11.68																										
				V-1620 ● 50.9 P-11.68																										
				V-1621 ● 50.9 P-11.68																										
				V-1622 ● 50.9 P-11.68																										
				V-1623 ● 50.9 P-11.68																										
				V-1624 ● 50.9 P-11.68																										
				V-1625 ● 50.9 P-11.68																										
				V-1626 ● 50.9 P-11.68																										
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				V-1628 ● 50.9 P-11.68																										
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				V-1630 ● 50.9 P-11.68																										
				V-1631 ● 50.9 P-11.68																										
				V-1632 ● 50.9 P-11.68																										
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				V-1647 ● 50.9 P-11.68																										
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				V-1649 ● 50.9 P-11.68																										
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				V-1660 ● 50.9 P-11.68																										
				V-1661 ● 50.9 P-11.68																										
				V-1662 ● 50.9 P-11.68																										
				V-1663 ● 50.9 P-11.68																										
				V-1664 ● 50.9 P-11.68																										
				V-1665 ● 50.9 P-11.68																										
				V-1666 ● 50.9 P-11.68																										
				V-1667 ● 50.9 P-11.68																										
				V-1668 ● 50.9 P-11.68																										
				V-1669 ● 50.9 P-11.68																										
				V-1670 ● 50.9 P-11.68																										
				V-1671 ● 50.9 P-11.68																										
				V-1672 ● 50.9 P-11.68																										
				V-1673 ● 50.9 P-11.68																										
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				V-1679 ● 50.9 P-11.68																										
				V-1680 ● 50.9 P-11.68																										

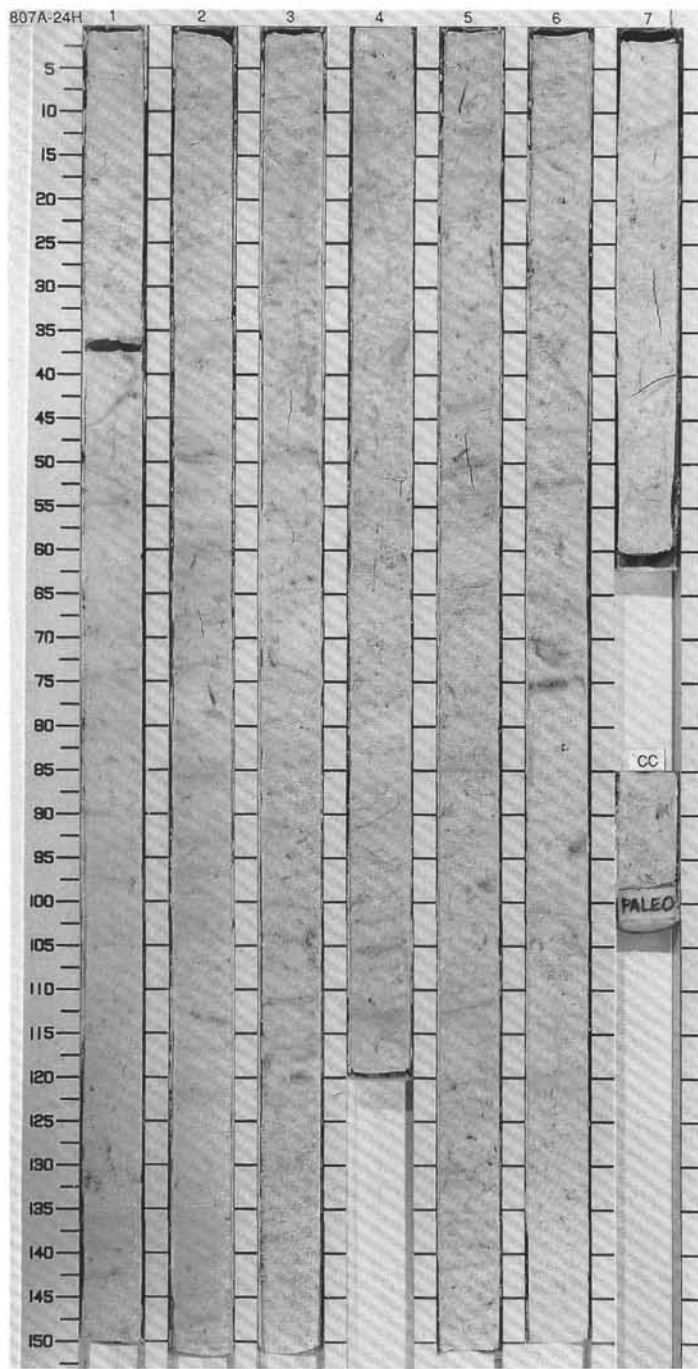


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETIC	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SEC. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
UPPER MIOCENE														
A/G	N17a													
A/M	NN11													
A/G	<i>Didymocyrtilis antepenultima</i>													
C/M-P	NTD 11													
					V-1612 80.61-7		●%CaCO ₃ -93.7	1	0.5					
					V-1590 81.64		●%CaCO ₃ -93.5	2	1.0					
					V-1832 86.03		●%CaCO ₃ -94.4	3						
					V-1632 88.16		●%CaCO ₃ -93.5	4						
					V-1676 88.5		●%CaCO ₃ -92.3	5						
					V-1609 89.165		●%CaCO ₃ -92.9	6						
								7						

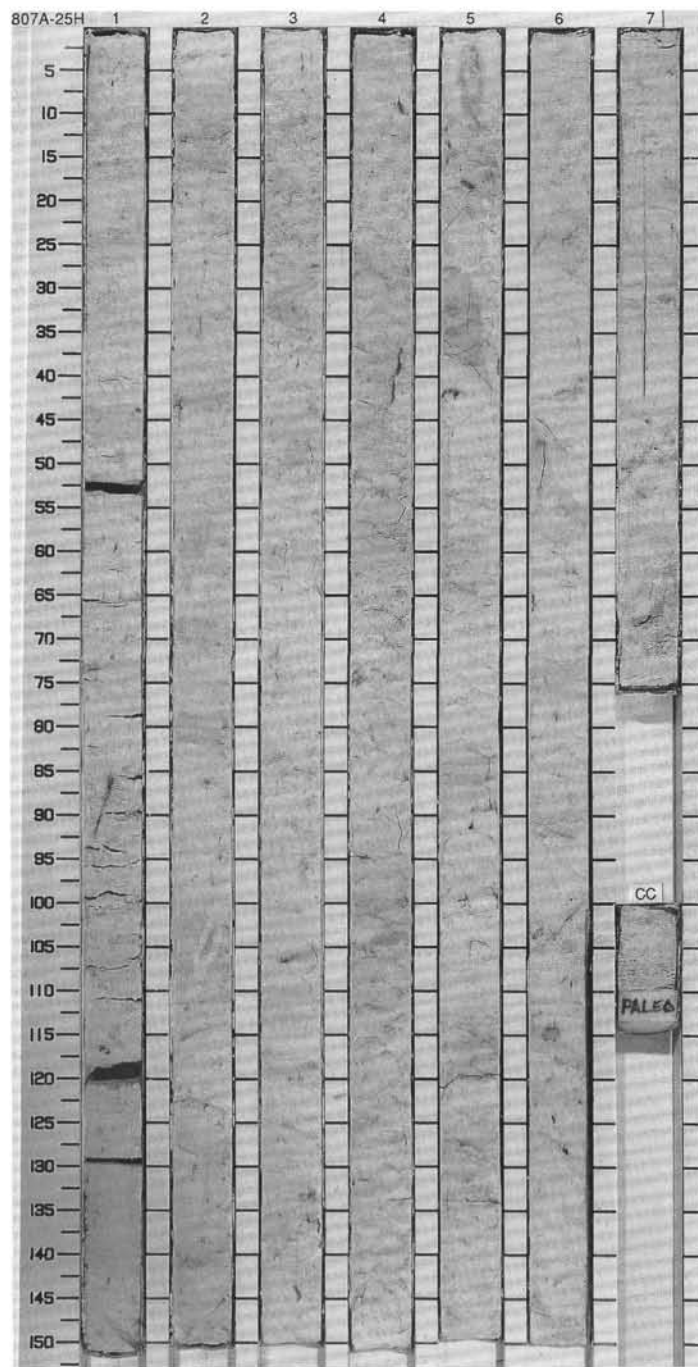


SITE 807 HOLE A CORE 24H CORED INTERVAL 216.4-225.9 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS								
UPPER MIOCENE									<p>NANNOFOSSIL OOZE with FORAMINIFERS to FORAMINIFER NANNOFOSSIL OOZE</p> <p>Major lithology. This core contains moderately to heavily bioturbated, white (2.5Y 8/0) NANNOFOSSIL OOZE with FORAMINIFERS to FORAMINIFER NANNOFOSSIL OOZE. Bioturbation structures include mm to cm scale, grayish blue (5PB 5/2), pyrite-filled burrows and light gray (2.5Y 7/2 and 5Y 7/2) mottling. The heavily bioturbated intervals are dominated by the light gray mottling. Light greenish gray (5G 7/1), grayish blue (5PB 5/2), and pale purple (5PB 7/2) diffuse color banding is present to abundant.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">3.80 D</p> <p>TEXTURE:</p> <p>Sand 15 Silt 81 Clay 4</p> <p>COMPOSITION:</p> <p>Diatoms 1 Foraminifers 25 Nannofossils 69 Radiolarians 2 Silicoflagellates 2 Spicules 1</p>
A/G	N16 - N17a	<i>D. dymocyrus antepenultima</i>	● 1/2-1644		0.5 1.0				
A/M	NN11								
A/G	NTD 11	<i>Nitzschia porteri</i>	● 1/2-1612		2				
A/M									
			● 1/2-1594		3				
			● 1/2-1640		4				
					5				
					6				
					7				

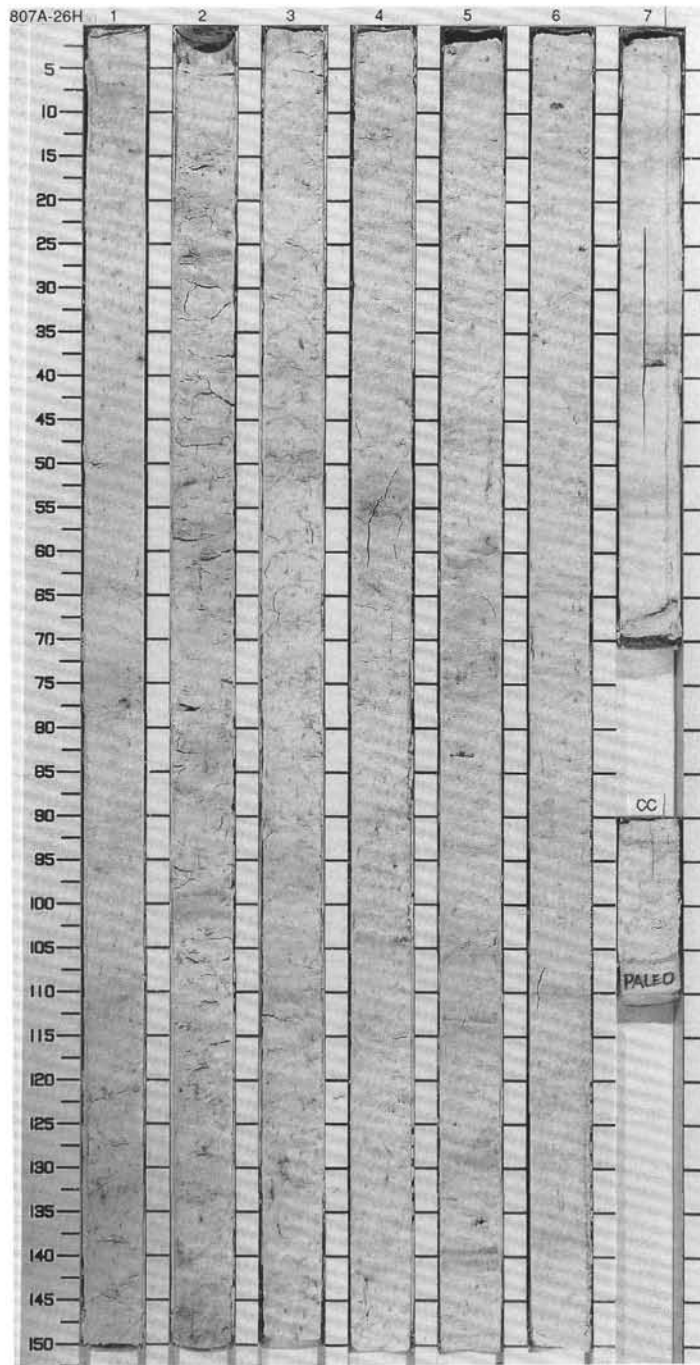


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
UPPER MIOCENE													
A/G	N16 - N17a												
A/M	NN11												
A/G	<i>Didymocyrtis antepenultima</i>												
A/M	NTD 11a												
					● V-1540								
					● V-1598								
					● V-1616								
					● V-1612								
					● V-1601								

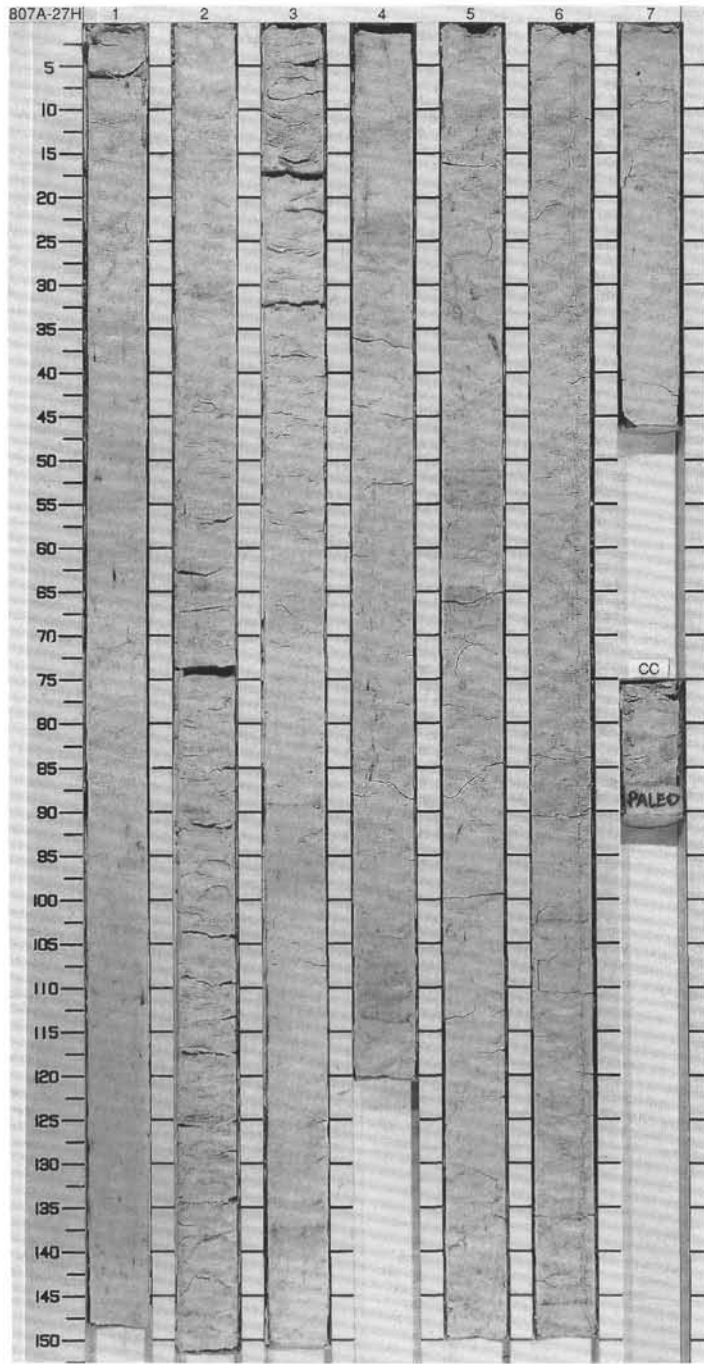


SITE 807 HOLE A CORE 26H CORED INTERVAL 235.4-244.9 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES SAMPLES	LITHOLOGIC DESCRIPTION
FORMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS						
UPPER MIOCENE									
A/G	NT6								
A/M	NN107								
A/G	<i>Didymocyrtilis antepenufrima</i>								
A/P-M	NTD107 - NTD 11								
				V-1624 P-1.65	●%CaCO ₃ -90.9	0.5 1.0			FORAMINIFER NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS
				V-1628 P-1.64	●%CaCO ₃ -92.3	2			Major lithology. This core contains white (2.5Y 8/0) FORAMINIFER NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS, which has formed drilling "biscuits" in Sections 1 through 3. The sediment is slightly to moderately bioturbated, with mm scale, grayish blue (5PB 5/2), pyrite-filled burrows common throughout the core. The more heavily bioturbated intervals also contain cm scale, light gray (5Y 7/1 and 2.5Y 7/2) mottling. Diffuse light greenish gray (5G 7/1), pale purple (5P 6/2), and pale blue (5PB 6/2) color bands generally become more abundant downcore. Microtauted color bands are present at Section 5, 130 cm, and Section 6, 37 cm.
				V-1628 P-1.64	●%CaCO ₃ -91.3	3			SMEAR SLIDE SUMMARY (%):
				V-1628 P-1.62	●%CaCO ₃ -91.6	4			3, 84 D
				V-1628 P-1.62	●%CaCO ₃ -91.6	5			TEXTURE:
				V-1628 P-1.65	●%CaCO ₃ -92.9	6			Sand 18 Silt 78 Clay 4
				V-1628 P-1.65	●%CaCO ₃ -92.9	7			COMPOSITION:
									Foraminifers 35 Nannofossils 62 Radiolarians 1 Silicoflagellates 1 Spicules 1

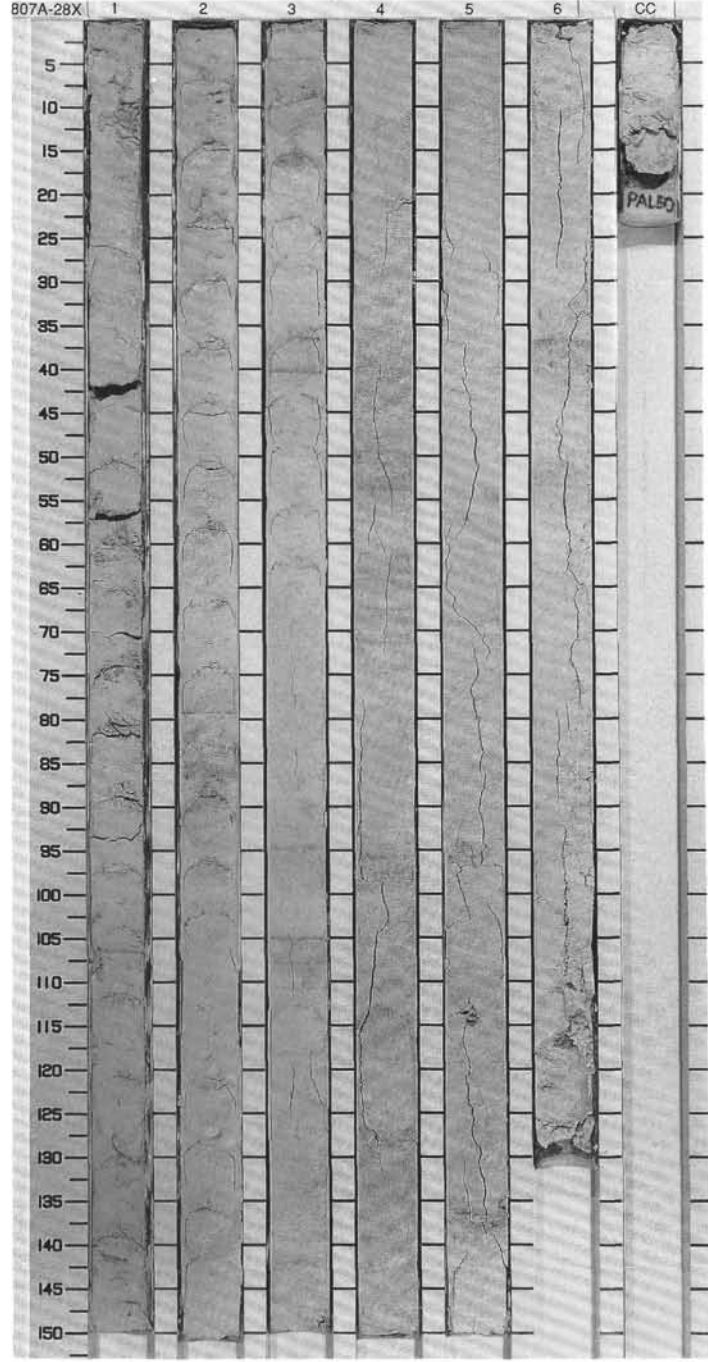


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																		
FORAMINIFERS	NANNOFOSSILS										RADIOLARIANS	DIAZONAS																
UPPER MIOCENE										<p>FORAMINIFER NANNOFOSSIL OOZE</p> <p>Major lithology. This core contains white (2.5Y 8/0 to 10YR 8/1) FORAMINIFER NANNOFOSSIL OOZE, which becomes more uniform in appearance downcore. Sections 1 through 5 are slightly to moderately bioturbated, with grayish blue (5PB 5/2) mm scale, pyrite-filled burrows and light gray (2.5Y 7/2), cm scale, mottling. Sections 6 through Core Catcher are slightly bioturbated, with few distinct mottles. Faint light greenish gray (5G 7/1), pale purple (5P 6/2), and pale blue (5PB 7/2) color bands are present to abundant in Sections 1 through 5.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr><td>D</td><td>3.86</td></tr> </table> <p>TEXTURE:</p> <table border="0"> <tr><td>Sand</td><td>15</td></tr> <tr><td>Silt</td><td>81</td></tr> <tr><td>Clay</td><td>4</td></tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr><td>Foraminifers</td><td>30</td></tr> <tr><td>Nannofossils</td><td>65</td></tr> <tr><td>Radiolarians</td><td>2</td></tr> <tr><td>Silicoflagellates</td><td>2</td></tr> <tr><td>Spicules</td><td>1</td></tr> </table>	D	3.86	Sand	15	Silt	81	Clay	4	Foraminifers	30	Nannofossils	65	Radiolarians	2	Silicoflagellates	2	Spicules	1
D	3.86																											
Sand	15																											
Silt	81																											
Clay	4																											
Foraminifers	30																											
Nannofossils	65																											
Radiolarians	2																											
Silicoflagellates	2																											
Spicules	1																											
A/G	N16	<i>Didymocyrtis antepennitima</i>	● 0-61.3	v-1664 ● 64.0	● %CaCO ₃ -93.4	1																						
A/M	NN10		● 5-1.65		● %CaCO ₃ -91.5	2																						
A/G	NTD 10?		● 0-61.9		● %CaCO ₃ -91.4	3																						
C-A/P-M			● 5-1.61		● %CaCO ₃ -91.4	4																						
						5																						
						6																						
						7																						
				CC																								

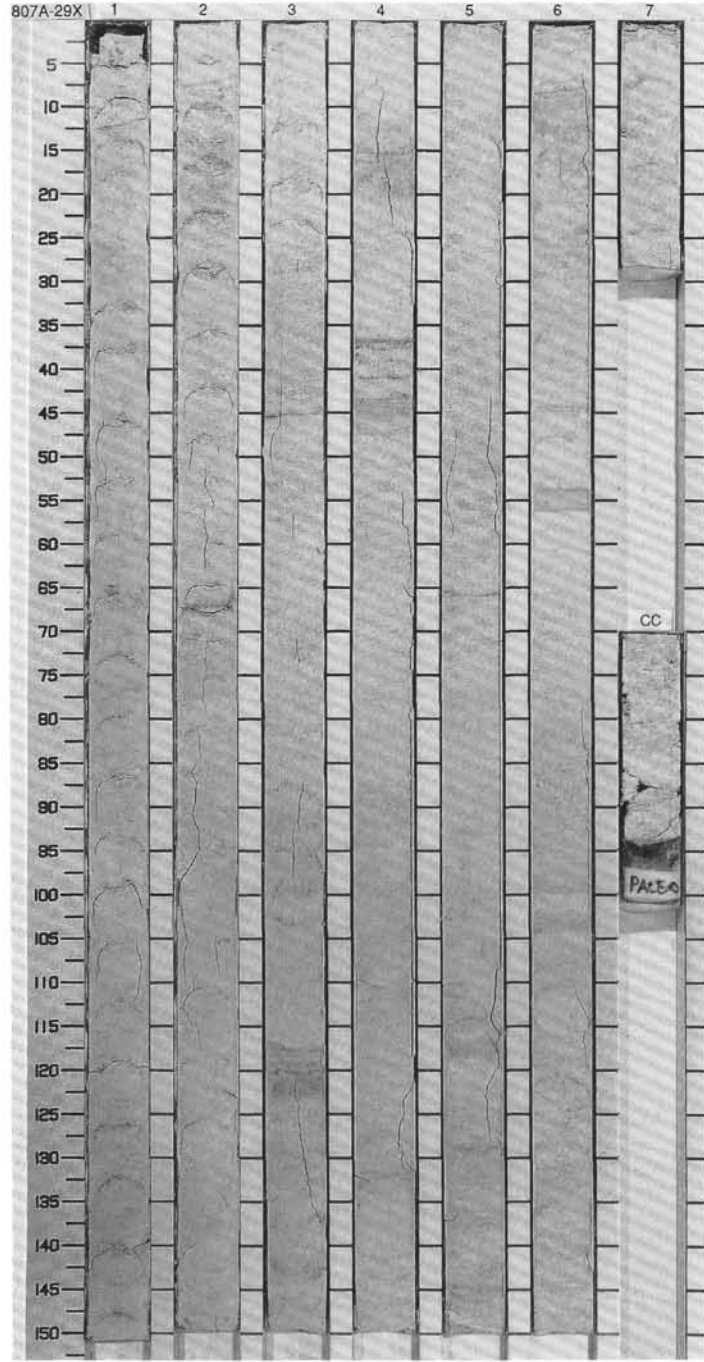


SITE 807 HOLE A CORE 28X CORED INTERVAL 254.4-264.1 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETIC	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DINOTRIS							
UPPER MIOCENE										<p>NANNOFOSSIL OOZE with FORAMINIFERS to FORAMINIFER NANNOFOSSIL OOZE</p> <p>Major lithology: This core contains white (7.5YR 8/0) NANNOFOSSIL OOZE with FORAMINIFERS to FORAMINIFER NANNOFOSSIL OOZE. The sediment is very stiff to hard and is biscuited by the drilling process. The core is relatively homogeneous, with infrequent 0.2 to 0.5 cm thick, greenish gray (5G 7/1), pale blue (5PB 7/2), pale purple (5P 6/2), and pale pink (5RP 8/2) color bands. Only a few signs of bioturbation are evident in the form of occasional pyrite-filled traces with purple borders, and small (0.5 to 1 cm thick), light gray (2.5Y 7/2) mottles.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">3, 75 D</p> <p>TEXTURE:</p> <p>Sand 15 Silt 60 Clay 25</p> <p>COMPOSITION:</p> <p>Foraminifers 23 Nannofossils 77 Siliceous sponge spicules Tr</p>
A/G	N1 6			0.5, 4 V-1.663	%CaCO ₃ = 90.5	1	0.5			
A/M	NN10			0.5, 5 V-1.560	%CaCO ₃ = 90.5	2	1.0			
A/M	<i>Didymocyrtis antepenultima</i>			0.5, 6 V-1.600	%CaCO ₃ = 90.0	3	1.0			
C/P-M	NTD 10 <i>Coscinoeliscus yaderi</i>			0.5, 7 V-1.600	%CaCO ₃ = 90.5	4	1.0			
				0.5, 8 V-1.600	%CaCO ₃ = 90.5	5	1.0			
				0.5, 9 V-1.600	%CaCO ₃ = 90.5	6	1.0			

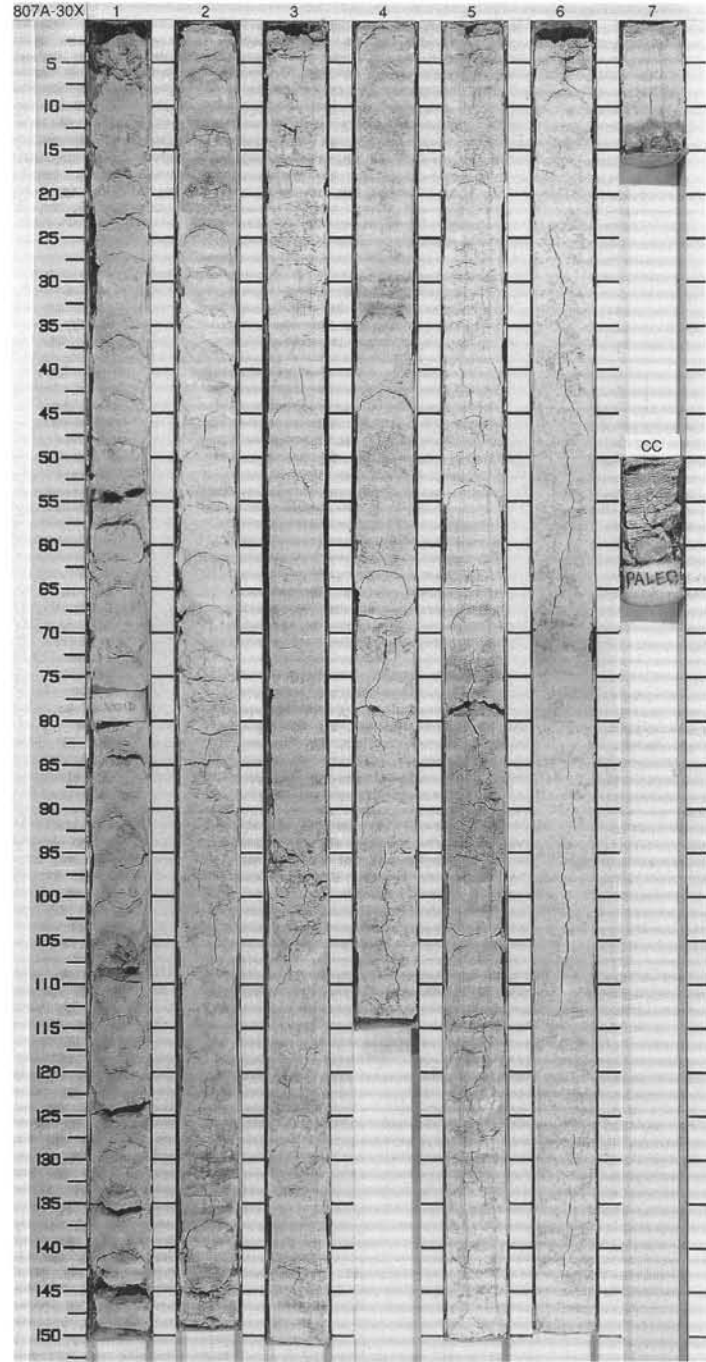


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
	DIATOMS												
UPPER MIOCENE													
A/G	N16												
A/M	NN10												
A/G	<i>Diartus petterssoni</i> / <i>Didymocyrtilis antepenultima</i>												
C/M	NTD 10a												
				V-1593 0.60.6 P-1.66	V-1612 0.62.2 P-1.84	●xCaCO ₃ 92.9							
				V-1508 0.61.5 P-1.87	V-1640 0.59.8 P-1.88	●xCaCO ₃ 94.0							
				V-1647 0.61.3 P-1.90	V-1647 0.61.3 P-1.90	●xCaCO ₃ 93.2							
				V-1647 0.61.3 P-1.90	V-1647 0.61.3 P-1.90	●xCaCO ₃ 93.2							



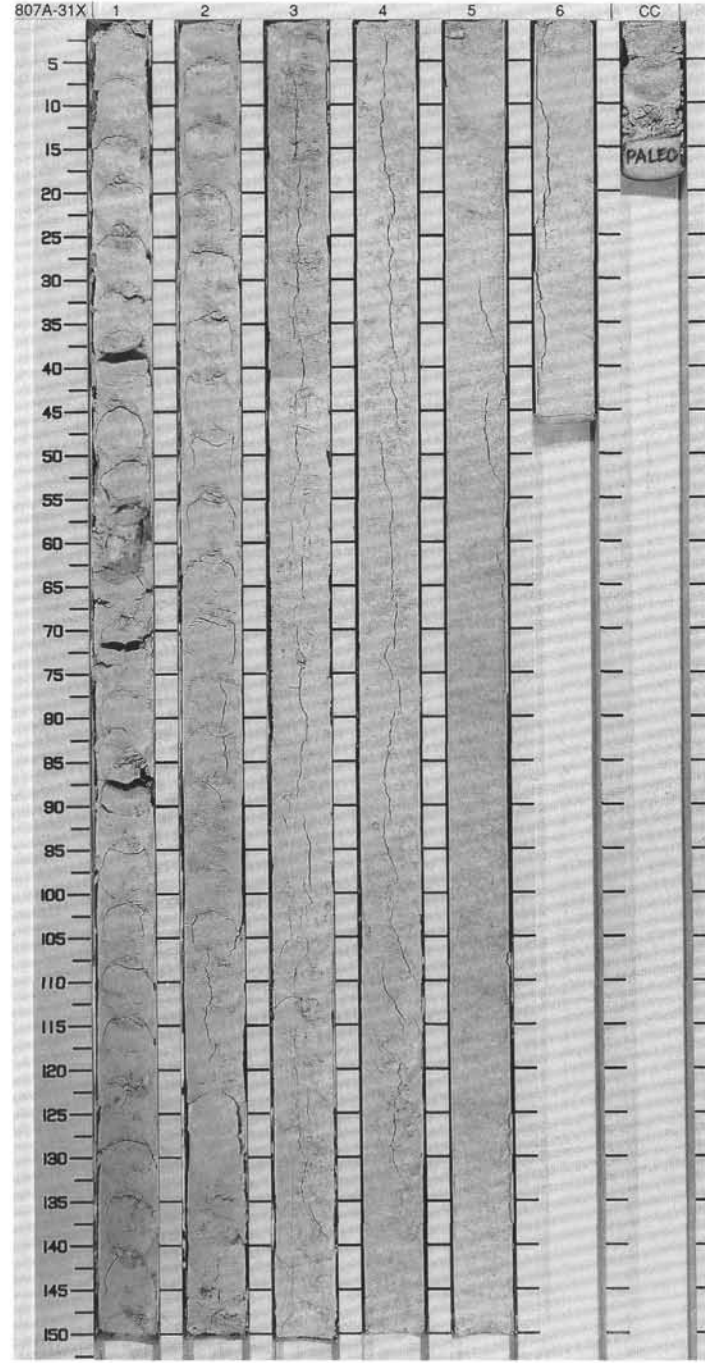
SITE 807 HOLE A CORE 30X CORED INTERVAL 273.8-283.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
UPPER MIOCENE															<p>NANNOFOSSIL OOZE with FORAMINIFERS and NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains 80% NANNOFOSSIL OOZE with FORAMINIFERS and 40% NANNOFOSSIL CHALK with FORAMINIFERS, both predominantly white (7.5YR 8/0) in color. The ooze is very stiff and contains biscuits of chalk. Only a few gray (7.5YR 6/0), 2 to 3 mm thick color bands, and several pale purple (5P 6/2), 3 to 5 cm thick bands are present. Faint pale purple (5P 6/2) zones, 10 to 25 cm thick, also are present.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">3.75 D</p> <p>TEXTURE:</p> <p>Sand 3 Silt 60 Clay 37</p> <p>COMPOSITION:</p> <p>Accessory minerals 1 Foraminifers 15 Nannofossils 79 Radiolarians 2 Siliceous fragments 3 Siliceous sponge spicules Tr</p>
A/G	N15								1	0.5					
A/M	NN10								2	1.0					
A/M	<i>Diartus petterssoni</i>								3						
F-C/P	NTD 10 <i>Coccolinodiscus yabei</i>								4						
									5						
									6						
									7						



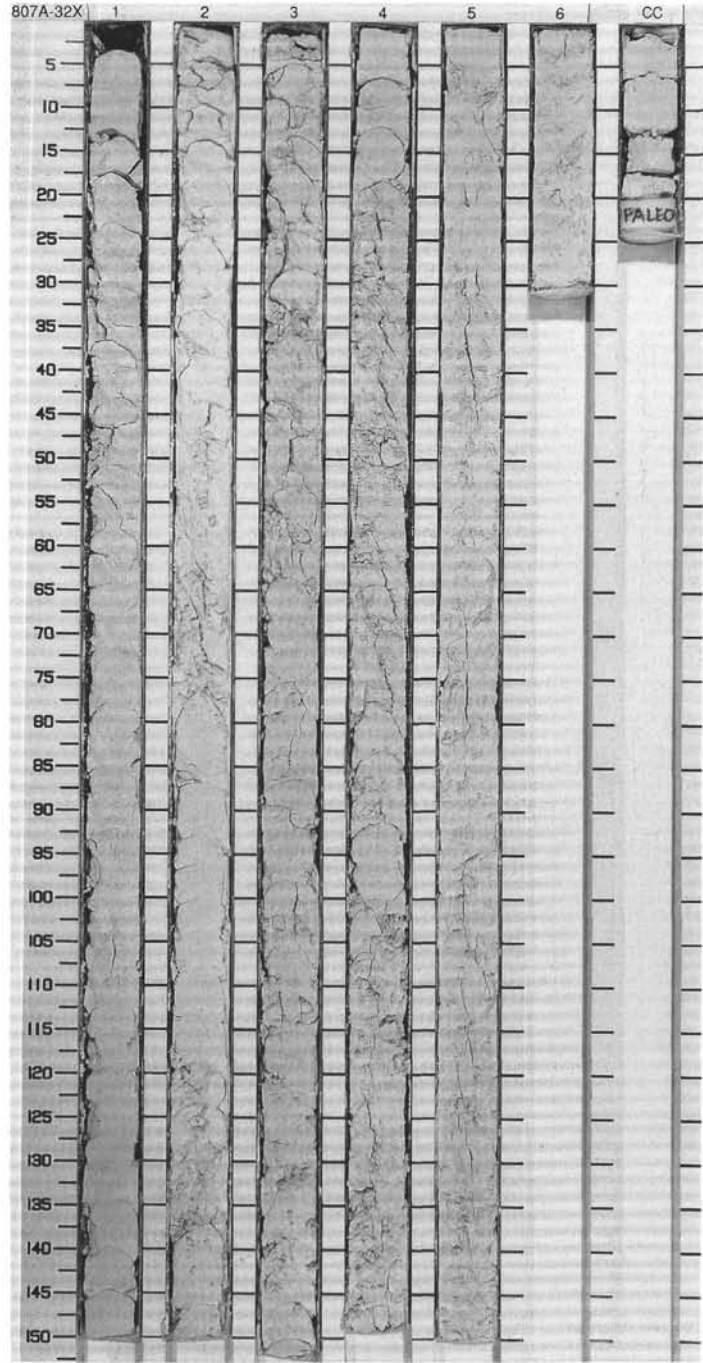
SITE 807 HOLE A CORE 31X CORED INTERVAL 283.5-292.7 mbsf

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	DIAZONS																																
UPPER MIOCENE													<p>NANNOFOSSIL OOZE with FORAMINIFERS and NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains white (7.5YR 8/0) NANNOFOSSIL OOZE with FORAMINIFERS and NANNOFOSSIL CHALK with FORAMINIFERS. A 45 cm thick, pale purple (5P 6/2) interval is present at the top of Section 3. The sediment is hard, and chalky intervals occur primarily as biscuits within Sections 1 through 4. Sections 5 and 6 are very stiff ooze. There is a noticeable lack of bioturbation structures; only a few small, pyrite-filled burrows are present.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr><td>Sand</td><td>3.75</td></tr> <tr><td>Silt</td><td>D</td></tr> <tr><td>Clay</td><td></td></tr> </table> <p>TEXTURE:</p> <table border="0"> <tr><td>Sand</td><td>5</td></tr> <tr><td>Silt</td><td>70</td></tr> <tr><td>Clay</td><td>25</td></tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr><td>Accessory minerals</td><td>1</td></tr> <tr><td>Foraminifers</td><td>15</td></tr> <tr><td>Nannofossils</td><td>82</td></tr> <tr><td>Radiolarians</td><td>1</td></tr> <tr><td>* Siliceous fragments</td><td>1</td></tr> </table>	Sand	3.75	Silt	D	Clay		Sand	5	Silt	70	Clay	25	Accessory minerals	1	Foraminifers	15	Nannofossils	82	Radiolarians	1	* Siliceous fragments	1
Sand	3.75																																		
Silt	D																																		
Clay																																			
Sand	5																																		
Silt	70																																		
Clay	25																																		
Accessory minerals	1																																		
Foraminifers	15																																		
Nannofossils	82																																		
Radiolarians	1																																		
* Siliceous fragments	1																																		
A/G	NT15			V-1530	0.15	%CaCO ₃ =93.4	1	0.5																											
A/M	NN9			V-1566	0.15	%CaCO ₃ =93.6	2	1.0																											
A/M	<i>Diatius petterssoni</i>			V-1630	0.163	%CaCO ₃ =93.5	3																												
C/P-M	NTD 10			V-1571	0.157	%CaCO ₃ =93.0	4																												
				V-1630	0.163	%CaCO ₃ =93.0	5																												
				V-1566	0.156	%CaCO ₃ =93.6	6																												
CC																																			



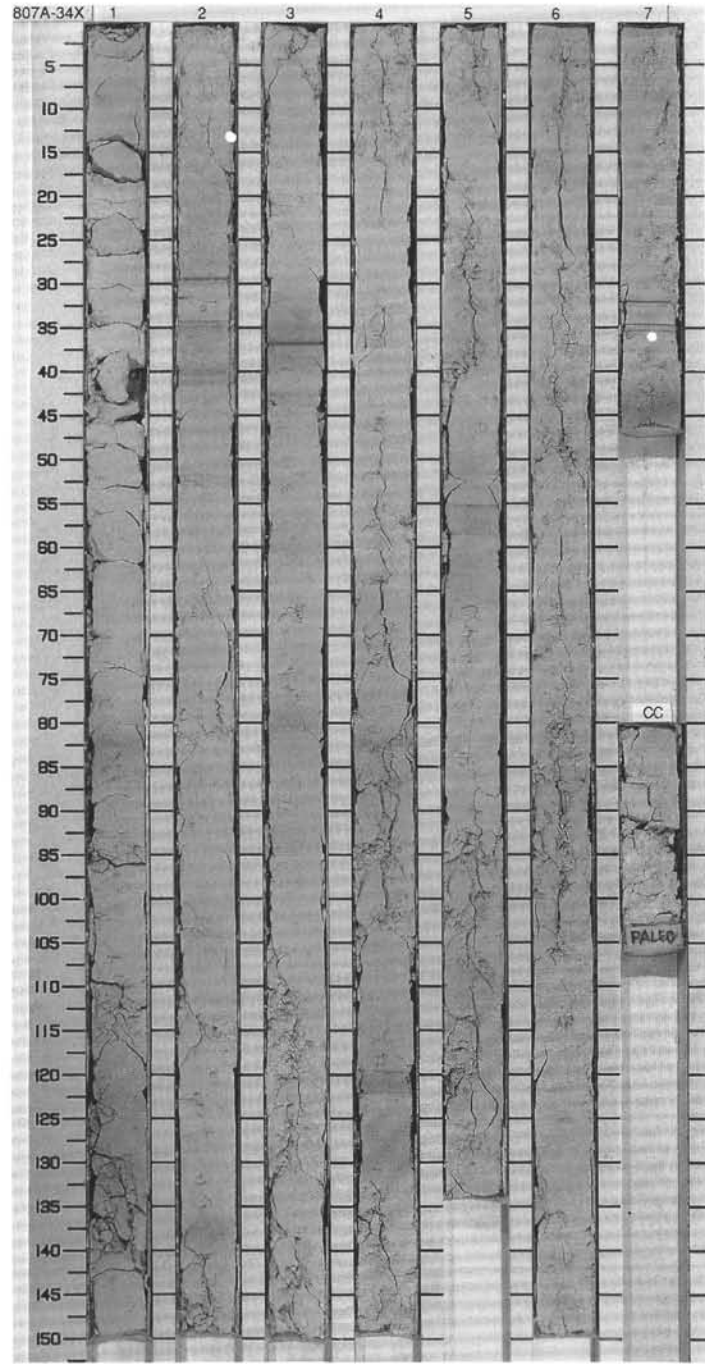
SITE 807 HOLE A CORE 32X CORED INTERVAL 292.7-302.3 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIFLOMS										
MIDDLE MIOCENE														
A/G	N14							1	0.5					<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL CHALK with FORAMINIFERS. Slight bioturbation is indicated by very few mottles, pyrite-filled burrows, and specks. The drilling process has resulted in moderately fractured to highly fragmented biscuits in a stiff ooze matrix.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">3.74 D</p> <p>TEXTURE:</p> <p>Sand 7 Silt 55 Clay 37</p> <p>COMPOSITION:</p> <p>Accessory minerals 2 Foraminifers 15 Nannofossils 80 Radiolarians Tr Siliceous fragments 3</p>
A/M	NN9						2	1.0						
A/P	<i>Diartus petterssoni</i>						3							
F/P	?						4							
							5							
							6							
							CC							

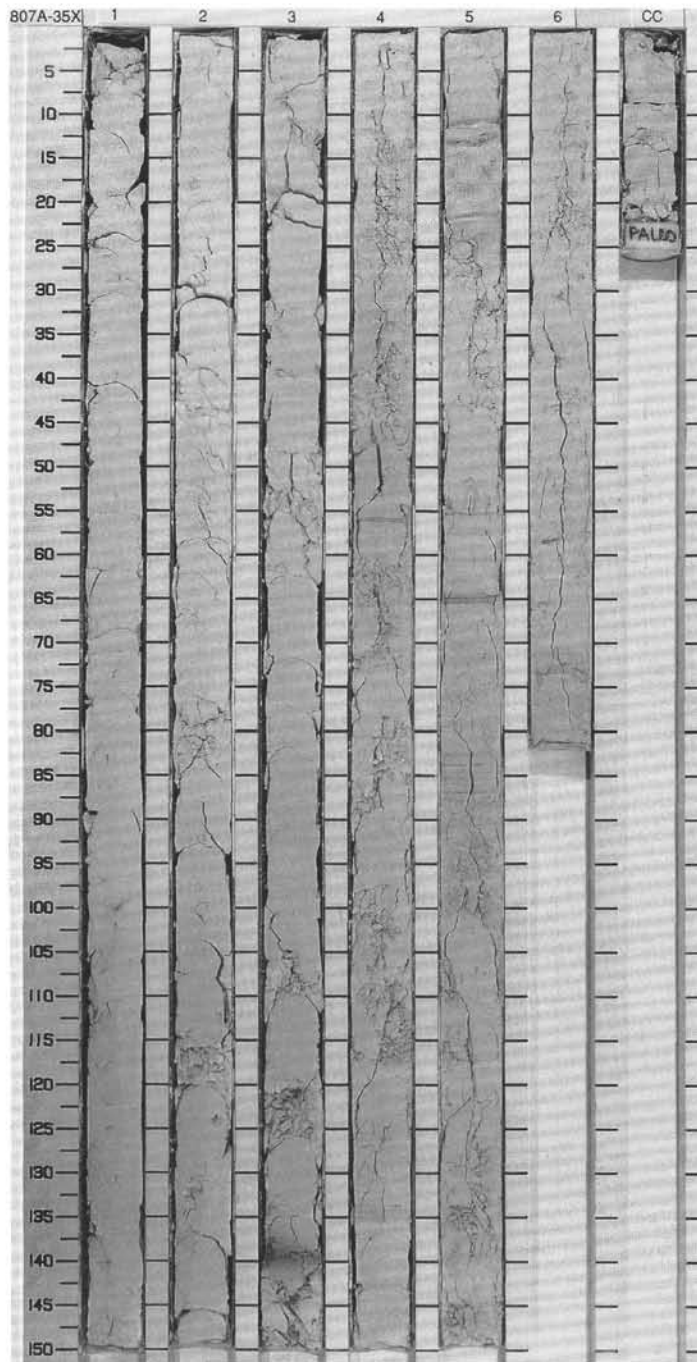


SITE 807 HOLE A CORE 34X CORED INTERVAL 312.0-321.2 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS									
MIDDLE MIOCENE										<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL CHALK with FORAMINIFERS. Distinct mm thick, irregular, wavy, pale purple (5P 6/2) color bands are abundant in 10 to 50 cm thick intervals in Sections 1, 4, 6 and 7. In the remaining sections, a few pale purple color bands are observed and several greenish gray (5G 5/2) color bands are noted throughout the core. The white sediment shows signs of bioturbation, including mottles and pyritic specks. In some of the pale purple intervals, bioturbation is heavy as indicated by abundant burrows. The drilling process has resulted in moderately fractured biscuits in a stiff ooze matrix.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="padding-left: 40px;">3.75 D</p> <p>TEXTURE:</p> <p>Sand 15 Silt 65 Clay 20</p> <p>COMPOSITION:</p> <p>Foraminifers 20 Nannofossils 80 Radiolarians Tr</p>
A/G	N13 - N14				0.5					
A/M	NN6 - NN8				1.0					
A/G	<i>Diatius petterssoni</i>				2					
A/M-G	NTD 7? - NTD 9	<i>A. moronensis - C. coscinodiscus - (C. gigas var dioramb)</i>			3					
					4					
					5					
					6					
					7					
					CC					

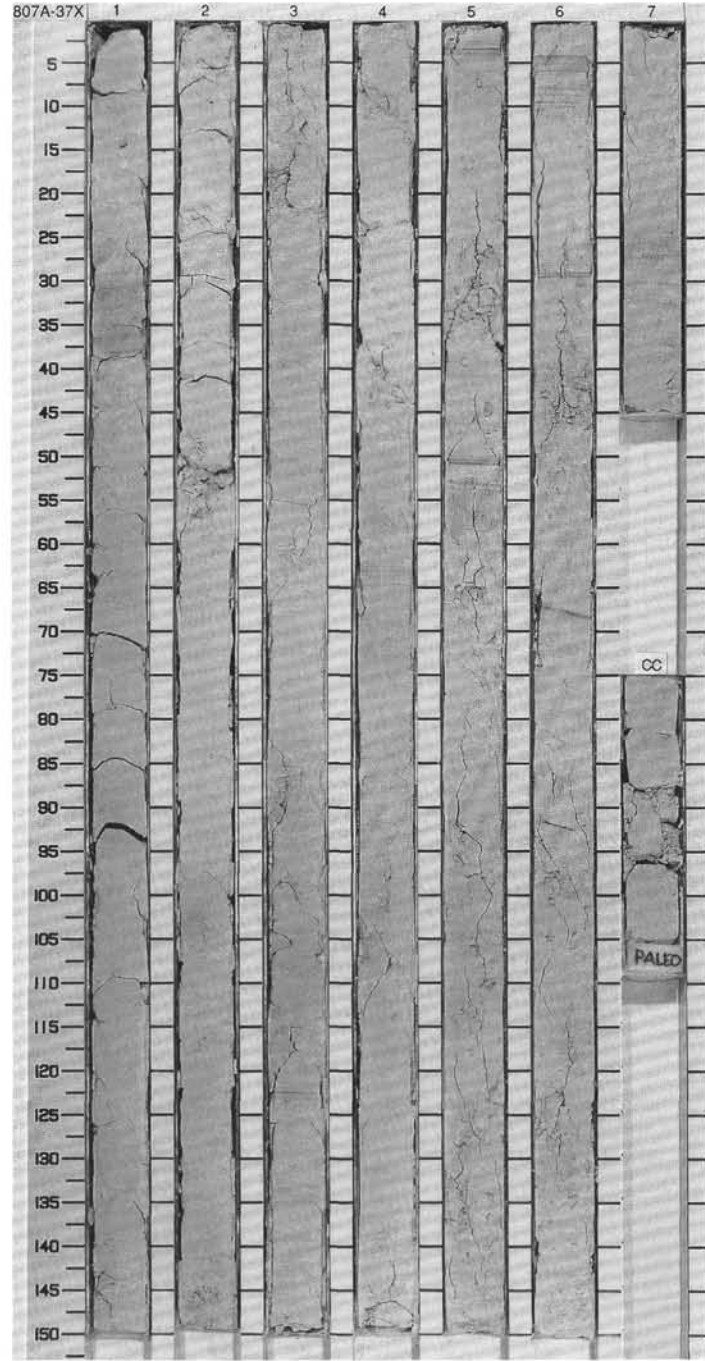


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																														
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS								DIAATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY																										
MIDDLE MIOCENE									<p>NANNOFOSSIL CHALK</p> <p>Major lithology. This core contains white (7.5YR 8/0) NANNOFOSSIL CHALK. Sections 4 and 5 each have two pale pink (5RP 8/0) intervals (10-50 cm long). The sediment is slightly bioturbated as indicated by a few pyrite-filled mottles and specks. Distinct pale purple (5P 6/2) and greenish gray (5G 5/2), mm scale color bands and a few cm scale, pale purple zones are noted in Sections 3, 5 and 6. Drilling disturbance has resulted in moderately fractured biscuits in a stiff ooze matrix, except for Section 1, where the biscuits are highly fragmented.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2, 74</td> <td>4, 57</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>10</td> <td>6</td> </tr> <tr> <td>Silt</td> <td>70</td> <td>60</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>34</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>—</td> <td>2</td> </tr> <tr> <td>Foraminifers</td> <td>8</td> <td>8</td> </tr> <tr> <td>Nannofossils</td> <td>92</td> <td>87</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Siliceous fragments</td> <td>—</td> <td>3</td> </tr> </table>		2, 74	4, 57	D	D	D	Sand	10	6	Silt	70	60	Clay	20	34	Accessory minerals	—	2	Foraminifers	8	8	Nannofossils	92	87	Radiolarians	Tr	Tr	Siliceous fragments	—	3
	2, 74	4, 57																																					
D	D	D																																					
Sand	10	6																																					
Silt	70	60																																					
Clay	20	34																																					
Accessory minerals	—	2																																					
Foraminifers	8	8																																					
Nannofossils	92	87																																					
Radiolarians	Tr	Tr																																					
Siliceous fragments	—	3																																					
A/G	N12		1	0.5																																			
A/M	NN6 - NN8		2	1.0																																			
A/M	<i>Diartus petterssoni</i>																																						
A/M-G	NTD 8 <i>Craspedodiscus coscinodiscus</i>		3																																				
			4																																				
			5																																				
			6																																				
CC																																							



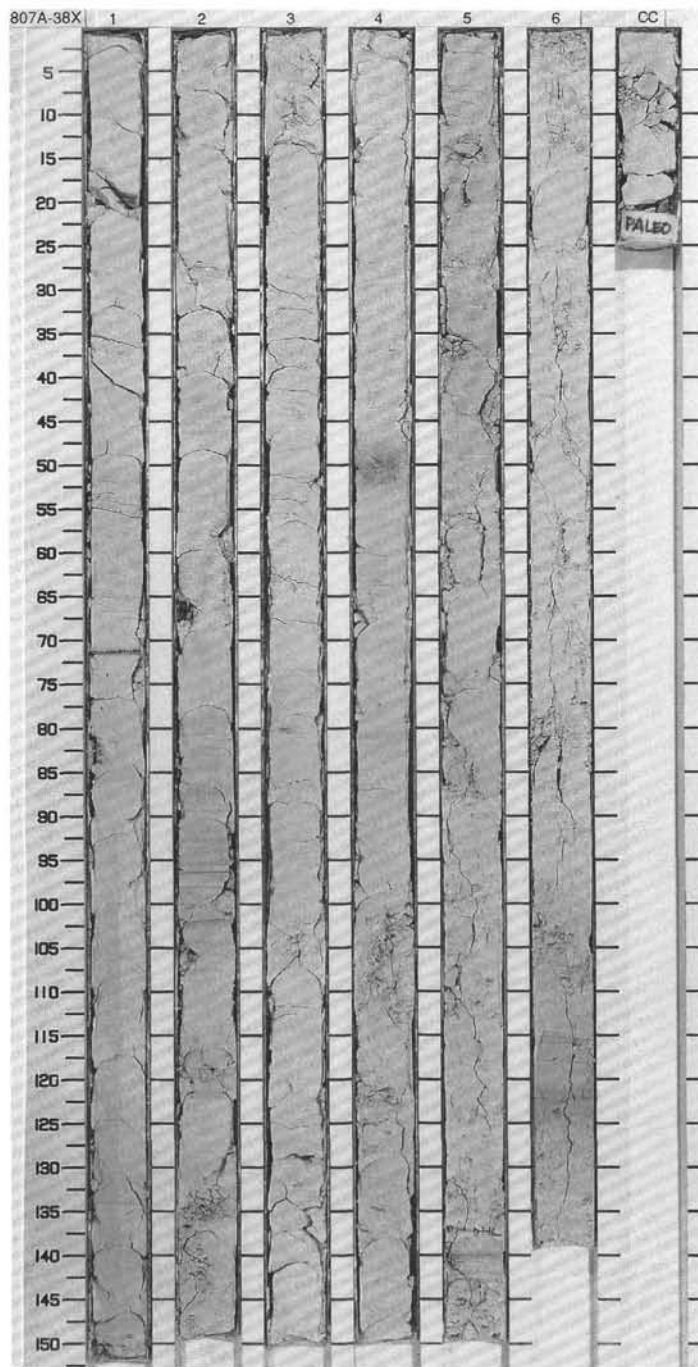
SITE 807 HOLE A CORE 37X CORED INTERVAL 340.6-350.2 mdsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
MIDDLE MIOCENE	N12	NING	<i>Dorcadospyris alata</i>											<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains white (7.5YR 8/0) NANNOFOSSIL CHALK with FORAMINIFERS. Pale pink (5P 8/2), dm-scale intervals are observed in Sections 2-6. Signs of bioturbation are rare in the white intervals, but heavy bioturbation is observed in the pale pink parts of the core. A few zones of distinct mm scale, greenish gray (5G 7/1) color bands are noted throughout the core. The drilling process has resulted in slightly to moderately fractured biscuits in a stiff ooze matrix.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">3.82 D</p> <p>TEXTURE:</p> <p>Sand 10 Silt 55 Clay 35</p> <p>COMPOSITION:</p> <p>Accessory minerals 1 Foraminifers 12 Nannofossils 63 Radiolarians Tr Siliceous fragments 4</p>
A/G					● 59.5 P ₁ 1.70			1	0.5 1.0					
A/P					● 59.5 P ₁ 1.70			2						
A/P					● 59.5 P ₁ 1.70			3						
					● 59.5 P ₁ 1.70			4						
					● 59.5 P ₁ 1.70			5						
					● 59.5 P ₁ 1.70			6						
					● 59.5 P ₁ 1.70			7						
					● 59.5 P ₁ 1.70			CC						

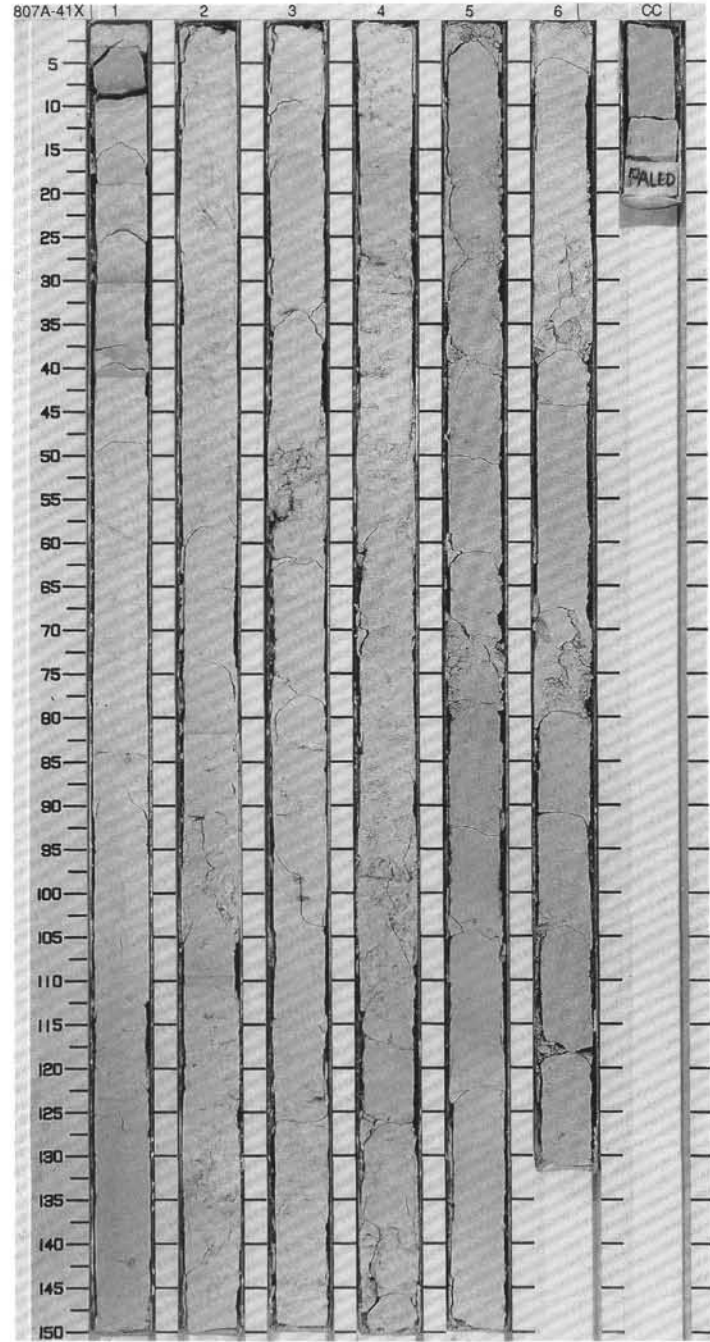


SITE 807 HOLE A CORE 38X CORED INTERVAL 350.2-359.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
	DIATOMS												
	FOSSIL CHARACTER												
MIDDLE MIOCENE													
A/G	N11				V-1591-01.4	•%CaCO ₃ -90.9	1						
A/M	NN6				V-1640-01.3	•%CaCO ₃ -91.3	2						
C/P	<i>Dorcadospyrus alata</i>				V-1620-01.67	•%CaCO ₃ -91.2	3						
A/M	Top NTD 6?				V-1634-05.6	•%CaCO ₃ -89.3	4						
					V-1588-01.5	•%CaCO ₃ -91.9	5						
					V-1624-01.66	•%CaCO ₃ -91.3	6						
							CC						

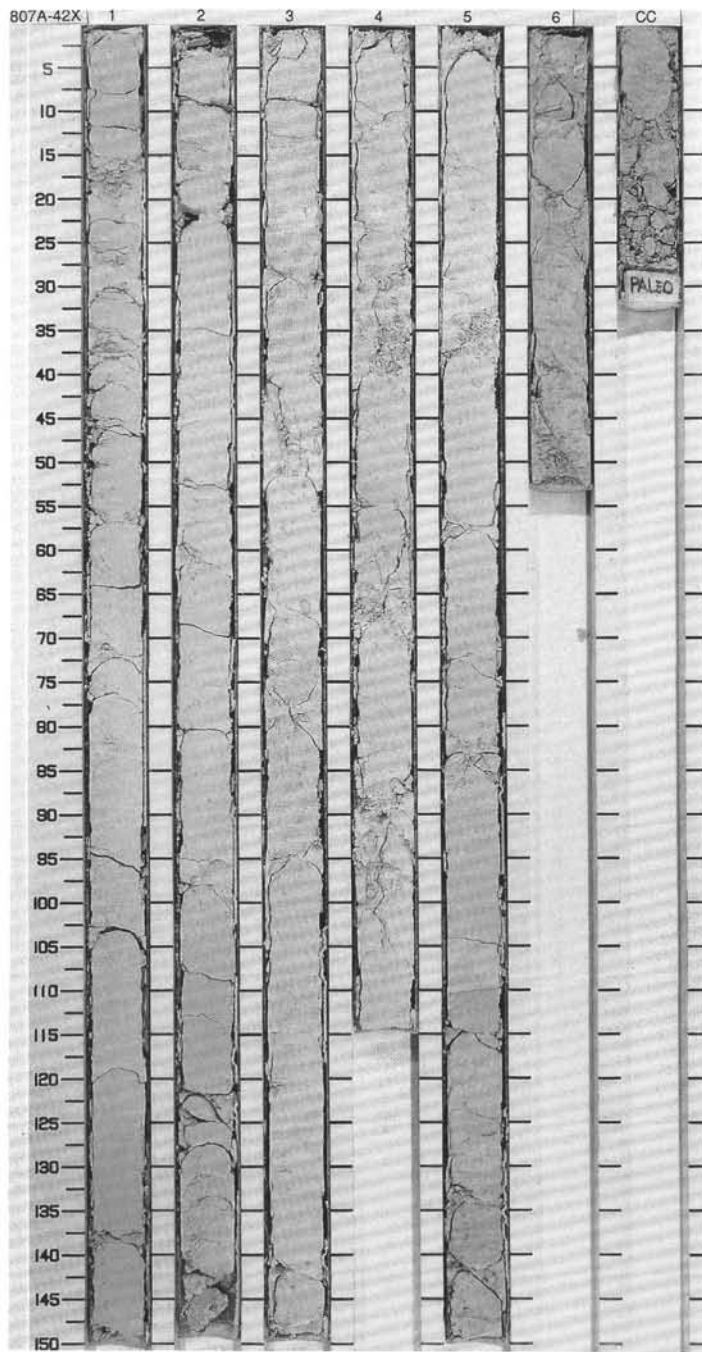


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONS							
MIDDLE MIOCENE											
C/M	N11				V-1688-56.6 -56.6 -56.6	●%CaCO ₃ =94.0	1				<p>FORAMINIFER NANNOFOSSIL CHALK</p> <p>Major lithology: This core contains moderately to highly bioturbated, white (7.5YR 8/0) FORAMINIFER NANNOFOSSIL CHALK. Disseminated pyrite-filled burrows are present but not abundant. Minor intervals of light greenish gray (5G 7/1) color bands are present in Section 2.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">2, 100 0</p> <p>TEXTURE:</p> <p>Sand 35 Silt 60 Clay 5</p> <p>COMPOSITION:</p> <p>Foraminifers 32 Nannofossils 65 Radiolarians 2 Silicoflagellates 1</p>
A/M	NN5			V-1715-56.0 -56.0 -56.0	●%CaCO ₃ =91.4	2					
F/P	?			V-1775-59.6 -59.6 -59.6	●%CaCO ₃ =89.4	3					
				V-1732-55.8 -55.8 -55.8	●%CaCO ₃ =92.8	4					
				V-1766-57.4 -57.4 -57.4	●%CaCO ₃ =84.7	5					
				V-1729-55.5 -55.5 -55.5	●%CaCO ₃ =88.3	6					
						CC					

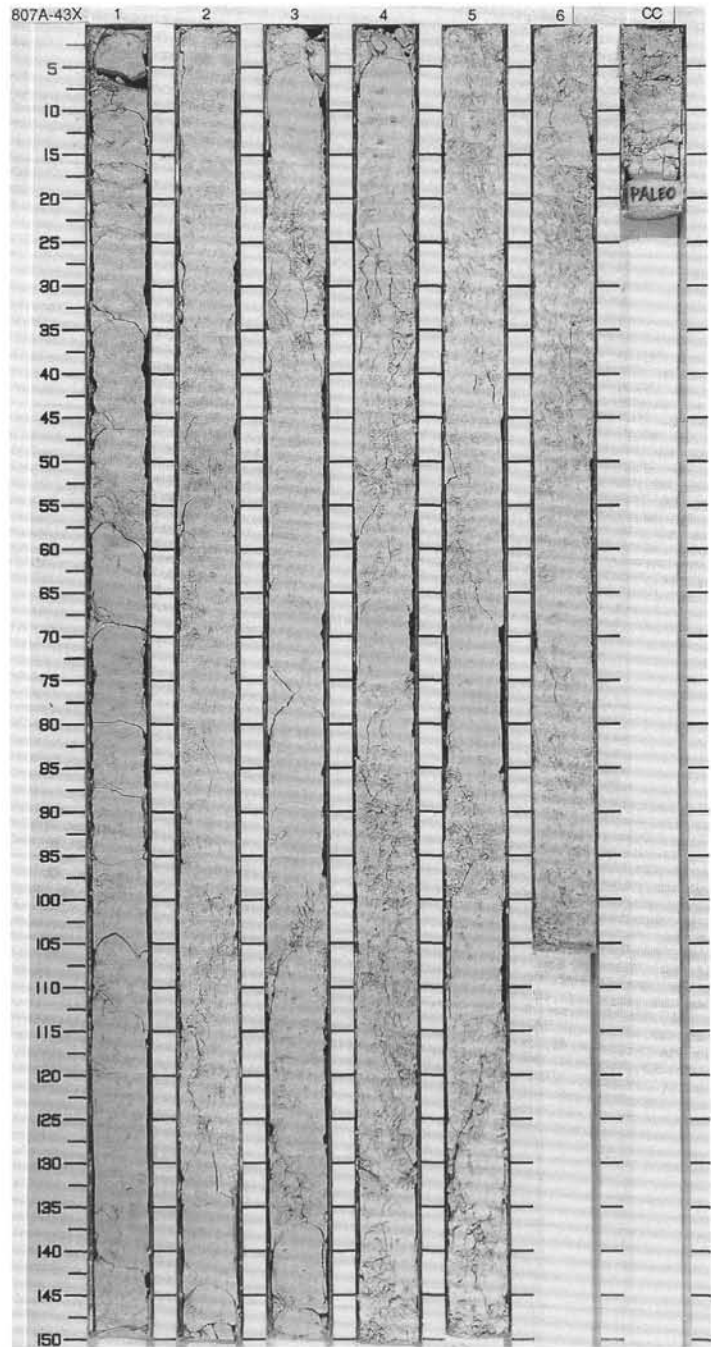


SITE 807 HOLE A CORE 42X CORED INTERVAL 389.2-398.9 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS PHYS. PROPERTIES CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONIS								
MIDDLE MIOCENE											
C/M	N10										
A/M	NN5										
C/P	<i>Dorcadospyris alata</i>										
R/P	?										
				V-1722 @ 1.77 ●%CaCO ₃ -92.0	1	0.5					
				V-1765 @ 1.79 ●%CaCO ₃ -90.1	2	1.0					
				V-1888 @ 1.78 ●%CaCO ₃ -90.5	3						
				V-1848 @ 1.77 ●%CaCO ₃ -90.5	4						
				V-1722 @ 1.77 ●%CaCO ₃ -92.0	5						
				V-1765 @ 1.79 ●%CaCO ₃ -90.1	6						
				V-1888 @ 1.78 ●%CaCO ₃ -90.5	CC						

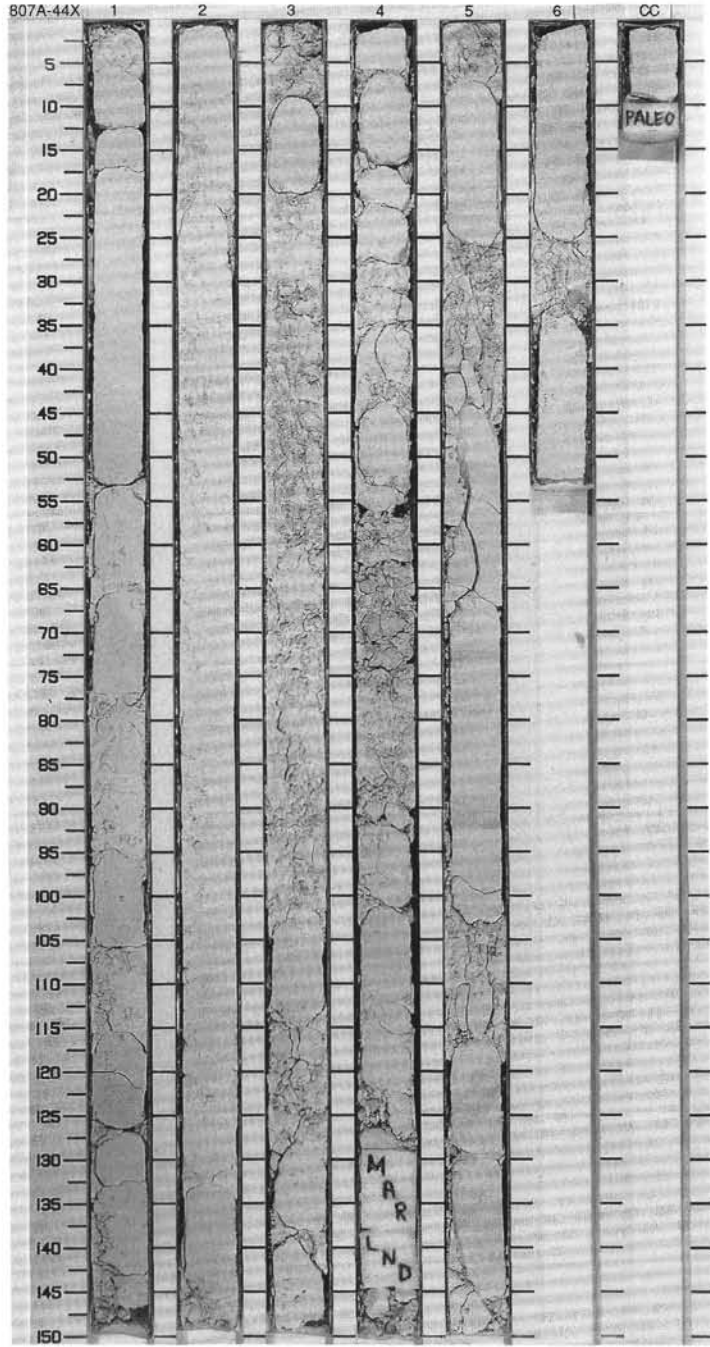


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
MIDDLE MIOCENE														
C/M	N8 - N9													
A/M	NN5													
A/P	<i>Dorcadospyrhis alata</i>													
F/P	?													
					V=1824 P=1.78 ●%CaCO ₃ =82.5	V=1863 P=1.81 ●%CaCO ₃ =88.8	V=1887 P=1.78 ●%CaCO ₃ =90.6	V=1855.9 P=1.75 ●%CaCO ₃ =89.3	V=1856.7 P=1.74 ●%CaCO ₃ =89.3					

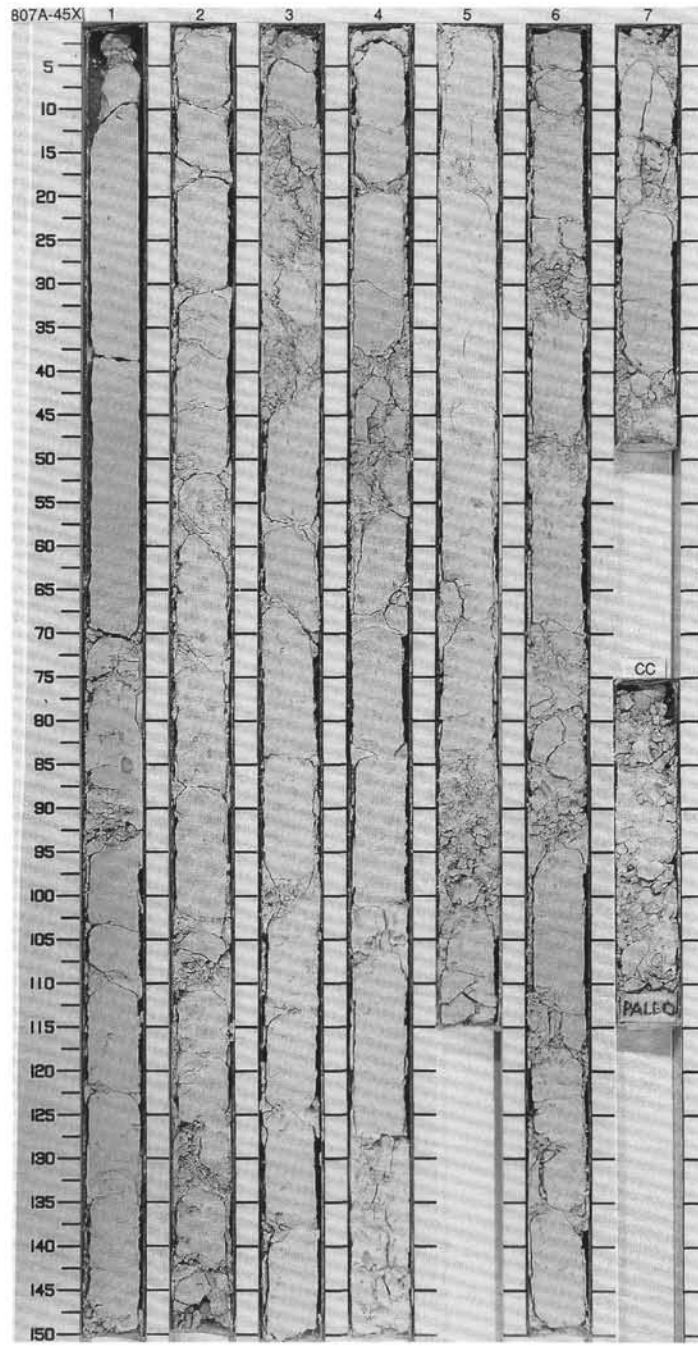


SITE 807 HOLE A CORE 44X CORED INTERVAL 408.6-418.3 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS		PHYS. PROPERTIES		CHEMISTRY		SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION														
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	δ_{25}	δ_{15}	ρ_{15}	ρ_{25}	$\%CaCO_3$																					
MIDDLE MIOCENE		N8 - N9 NNS								1	0.5 - 1.0				<p>FORAMINIFER NANNOFOSSIL CHALK</p> <p>Major lithology: This core contains white (7.5YR 8/0, 2.5Y 8/0, and 5Y 8/1) FORAMINIFER NANNOFOSSIL CHALK. The sediments are slightly to moderately bioturbated, with indistinct mottling and minor staining by grayish blue (5PB 5/2), pyrite-filled burrows. Several light gray (5Y 7/1) color bands are present in Sections 1 and 5, and dip at angles of 10-30° across the core surface. These may represent sediment deformation zones.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr><td>Sand</td><td>30</td></tr> <tr><td>Silt</td><td>65</td></tr> <tr><td>Clay</td><td>5</td></tr> </table> <p>TEXTURE:</p> <p>COMPOSITION:</p> <table border="1"> <tr><td>Foraminifers</td><td>25</td></tr> <tr><td>Nannofossils</td><td>70</td></tr> <tr><td>Radiolarians</td><td>4</td></tr> <tr><td>Silicoflagellates</td><td>Tr.</td></tr> </table>	Sand	30	Silt	65	Clay	5	Foraminifers	25	Nannofossils	70	Radiolarians	4	Silicoflagellates	Tr.
Sand	30																												
Silt	65																												
Clay	5																												
Foraminifers	25																												
Nannofossils	70																												
Radiolarians	4																												
Silicoflagellates	Tr.																												
A/G				$\delta_{25} = 54.9$	$\delta_{15} = 54.9$	$\rho_{15} = 1.76$	$\rho_{25} = 1.76$	$\%CaCO_3 = 88.1$																					
A/M				$\delta_{25} = 50.9$	$\delta_{15} = 50.9$	$\rho_{15} = 1.85$	$\rho_{25} = 1.85$	$\%CaCO_3 = 88.6$		2																			
C/P			<i>Cibicides costata</i>	$\delta_{25} = 55.8$	$\delta_{15} = 55.8$	$\rho_{15} = 1.75$	$\rho_{25} = 1.75$	$\%CaCO_3 = 92.3$		3																			
F/P			?	$\delta_{25} = 57.4$	$\delta_{15} = 57.4$	$\rho_{15} = 1.74$	$\rho_{25} = 1.74$	$\%CaCO_3 = 91.3$		4																			
				$\delta_{25} = 51.1$	$\delta_{15} = 51.1$	$\rho_{15} = 1.84$	$\rho_{25} = 1.84$	$\%CaCO_3 = 91.5$		5																			
										6																			

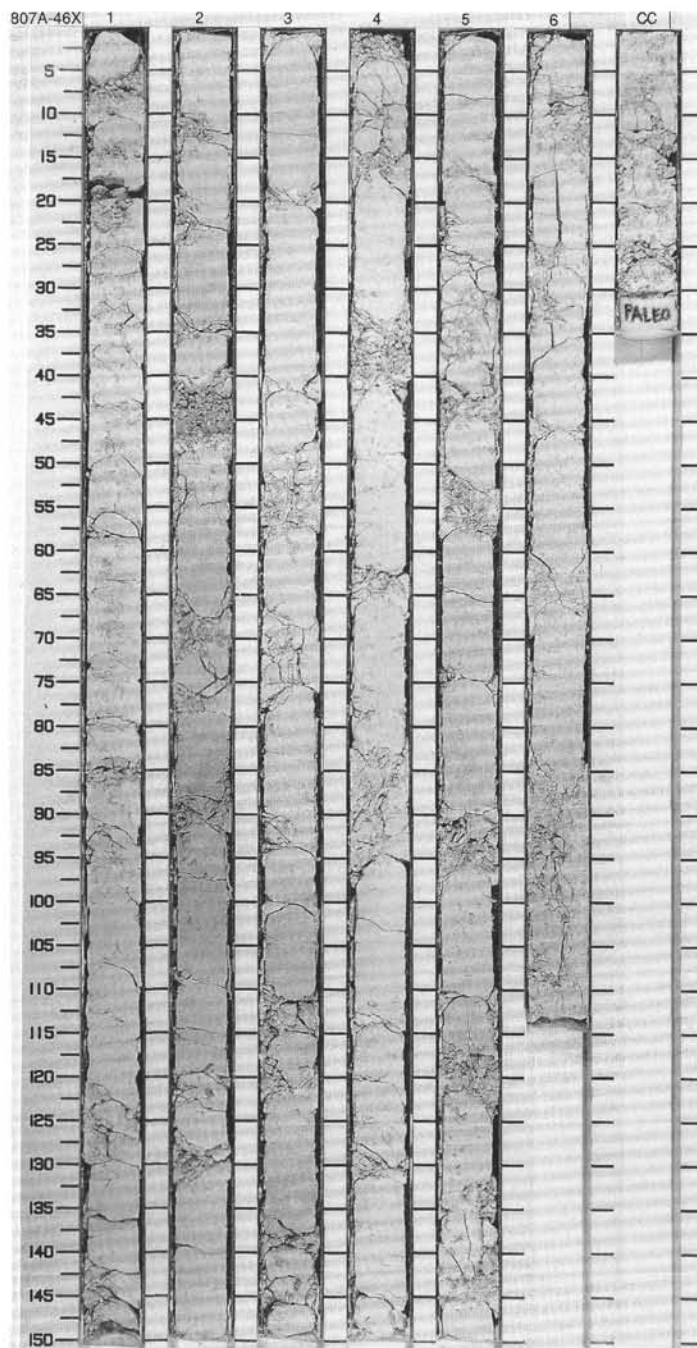


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS								
MIDDLE MIOCENE	NB - N9	NN5									NANNOFOSSIL CHALK with FORAMINIFERS
A/M						0.5					Major lithology: This core contains white (5Y 8.1 and 10YR 8.1) NANNOFOSSIL CHALK with FORAMINIFERS. Moderate to heavy bioturbation is indicated by horizontal, 0.5 cm wide burrows and mottling, minor grayish blue (5PB 5.2) mottling, and pyrite-filled burrows. No color bands were seen.
A/P						1.0					SMEAR SLIDE SUMMARY (%): 1 100 D
F/P	?					2.0					TEXTURE: Sand 25 Silt 70 Clay 5
					V-1841-83.1 ● XCaCO ₃ -90.7						COMPOSITION: Foraminifers 18 Nannofossils 80 Radiolarians 2
					V-1828-83.78 ● XCaCO ₃ -92.0	2					
					V-2005-83.1 ● XCaCO ₃ -92.4	3					
					V-1841-83.1 ● XCaCO ₃ -93.4	4					
					V-2176-84.1 ● XCaCO ₃ -94.1	5					
					V-177-83.1 ● XCaCO ₃ -93.1	6					
						7					
						CC					
									OG		
									W		

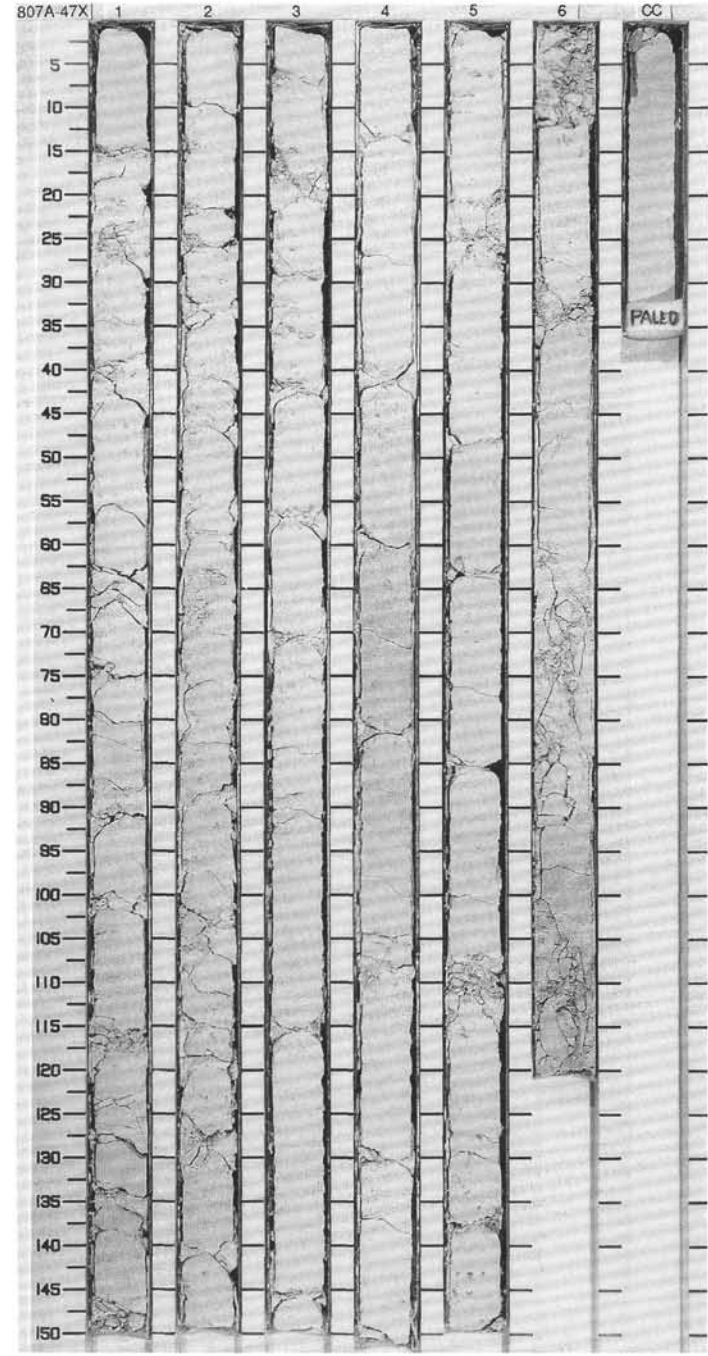


SITE 807 HOLE A CORE 46X CORED INTERVAL 427.8-437.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																														
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																							
MIDDLE MIOCENE																																											
A/M	N8 - N9								0.5				FORAMINIFER NANNOFOSSIL CHALK Major lithology: The predominant lithology in this core is white (2.5Y 8/0 and 5Y 8/1) FORAMINIFER NANNOFOSSIL CHALK, with a 7 cm thick, coarse grained, reddish gray (10R 6/1), graded bed located in Section 2. Heavy to slight bioturbation is indicated by white mottling on a 2 to 3 mm scale, and by single spots associated with pyritized burrows. Minor lithology: Sections 2, 3 and 4 contain 10 to 50 cm thick beds of NANNOFOSSIL CHALK which grade into the major lithology. The sediment is white (2.5Y 8/0 and 5Y 8/1) and moderately bioturbated as indicated by white mottles and burrows, and by diffuse burrow associated pyritization. SMEAR SLIDE SUMMARY (%): <table style="margin-left: 40px;"> <tr> <td></td> <td>2.30</td> <td>3.88</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> </tr> </table> TEXTURE: <table style="margin-left: 40px;"> <tr> <td>Sand</td> <td>2</td> <td>15</td> </tr> <tr> <td>Silt</td> <td>94</td> <td>81</td> </tr> <tr> <td>Clay</td> <td>4</td> <td>4</td> </tr> </table> COMPOSITION: <table style="margin-left: 40px;"> <tr> <td>Foraminifers</td> <td>4</td> <td>35</td> </tr> <tr> <td>Nannofossils</td> <td>93</td> <td>61</td> </tr> <tr> <td>Radiolarians</td> <td>1</td> <td>2</td> </tr> <tr> <td>Silicoflagellates</td> <td>-</td> <td>1</td> </tr> <tr> <td>Spicules</td> <td>2</td> <td>1</td> </tr> </table>		2.30	3.88	D		D	Sand	2	15	Silt	94	81	Clay	4	4	Foraminifers	4	35	Nannofossils	93	61	Radiolarians	1	2	Silicoflagellates	-	1	Spicules	2	1
	2.30	3.88																																									
D		D																																									
Sand	2	15																																									
Silt	94	81																																									
Clay	4	4																																									
Foraminifers	4	35																																									
Nannofossils	93	61																																									
Radiolarians	1	2																																									
Silicoflagellates	-	1																																									
Spicules	2	1																																									
A/P	NN4 - NNS								1.0																																		
A/P	<i>Calocyclus costata</i>								1.5																																		
C/P	?NTD 5 <i>Cestodiscus pepium</i>								2.0																																		
									2.5																																		
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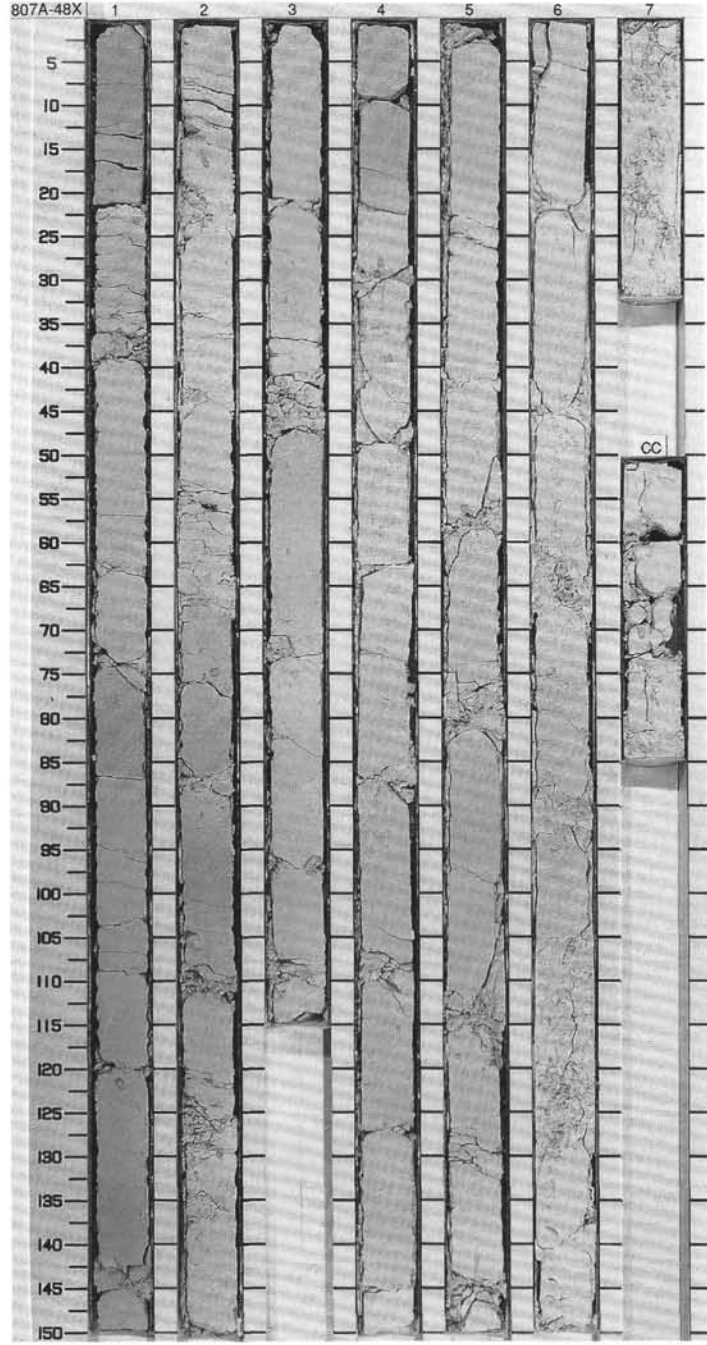


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
C/M	MIDDLE MIOCENE												
A/M	N8 - N9												
A/P	NN4 <i>Calocyclus costata</i>												
	V-186.1	0.54.3	95.1.79	0.53.8	95.1.79	%CaCO ₃ 92.5	1	0.5-1.0					
	V-166.1	0.56.5	95.1.75	0.54.4	95.1.78	%CaCO ₃ 92.5	2	1.0-1.5					
				0.53.2	95.1.80	%CaCO ₃ 94.8	3	1.5-2.0					
				0.51.9	95.1.81	%CaCO ₃ 93.7	4	2.0-2.5					
				0.53.6	95.1.79	%CaCO ₃ 92.5	5	2.5-3.0					
				0.54.3	95.1.79	%CaCO ₃ 91.9	6	3.0-3.5					

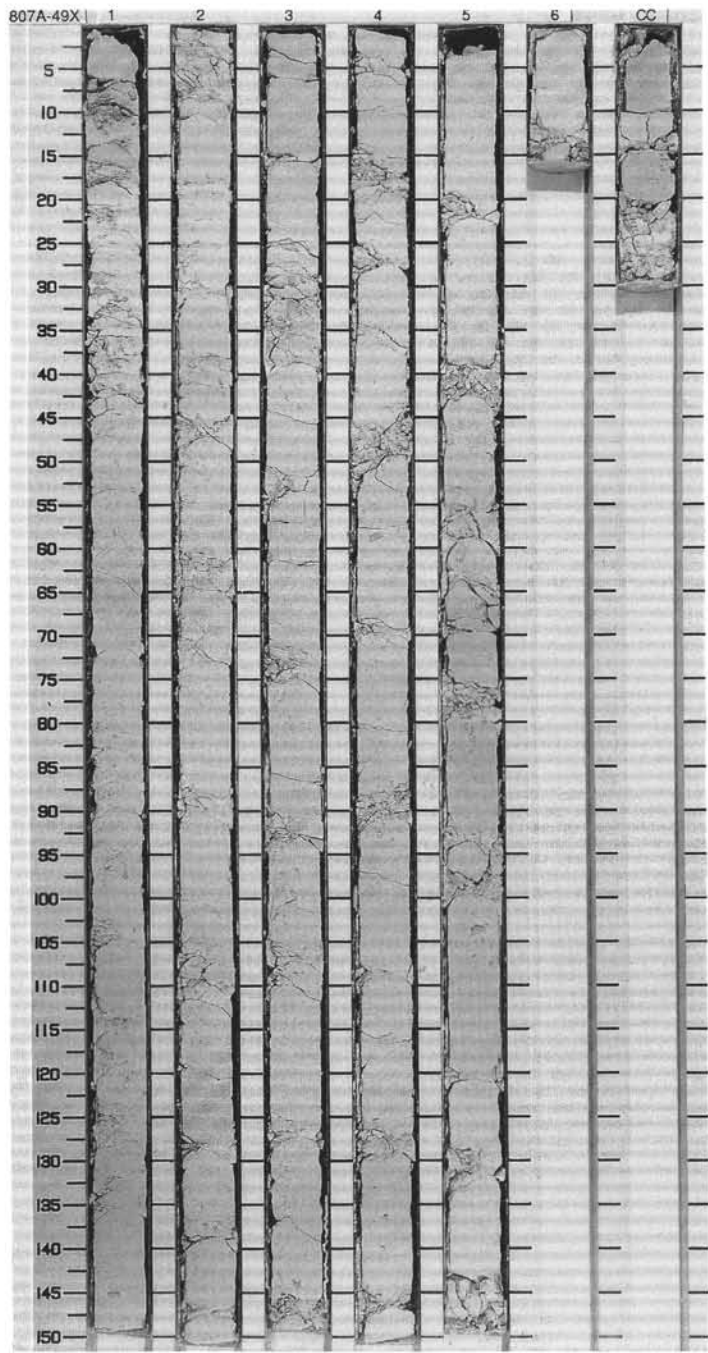


SITE 807 HOLE A CORE 48X CORED INTERVAL 447.1-456.8 mdsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION	
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PHYS. PROPERTIES								CHEMISTRY
MIDDLE MIOCENE												
C/M	N8										<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains white (5YR 8/1 and 10YR 8/1) NANNOFOSSIL CHALK with FORAMINIFERS. Bioturbation is heavy to slight throughout the core and decreases in intensity downcore. The bioturbation is generally expressed as simple horizontal burrow motting, although a <i>Zoophycos</i> trace fossil is present in Section 1, and <i>Chondrites</i> is present in Section 4.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">4, 44 D</p> <p>TEXTURE:</p> <p>Sand 10 Silt 86 Clay 4</p> <p>COMPOSITION:</p> <p>Foraminifers 15 Nannofossils 82 Radiolarians 1 Silicoflagellates 1 Spicules 1</p>	
A/P	NN4											
C/P	<i>Stichocorys wolffi</i>											
R/P	?											
				V-1784-53.3 P-1.80	V-1767-52.4 P-1.83	V-1845-52.4 P-1.81	V-1821-52.2 P-1.82	V-1741-52.6 P-1.79	V-1777-53.1 P-1.80	●%CaCO ₃ =90.6		1
				V-1784-95.0	V-1767-92.8	V-1845-92.8	V-1821-92.8	V-1741-92.8	V-1777-92.8	●%CaCO ₃ =77.9		2
				V-1784-93.3	V-1767-93.3	V-1845-93.3	V-1821-93.3	V-1741-93.3	V-1777-93.3	●%CaCO ₃ =92.8		3
				V-1784-95.0	V-1767-95.0	V-1845-95.0	V-1821-95.0	V-1741-95.0	V-1777-95.0	●%CaCO ₃ =92.8	4	
				V-1784-95.0	V-1767-95.0	V-1845-95.0	V-1821-95.0	V-1741-95.0	V-1777-95.0	●%CaCO ₃ =92.8	5	
				V-1784-95.0	V-1767-95.0	V-1845-95.0	V-1821-95.0	V-1741-95.0	V-1777-95.0	●%CaCO ₃ =92.8	6	
				V-1784-95.0	V-1767-95.0	V-1845-95.0	V-1821-95.0	V-1741-95.0	V-1777-95.0	●%CaCO ₃ =92.8	7	
				V-1784-95.0	V-1767-95.0	V-1845-95.0	V-1821-95.0	V-1741-95.0	V-1777-95.0	●%CaCO ₃ =92.8	CC	

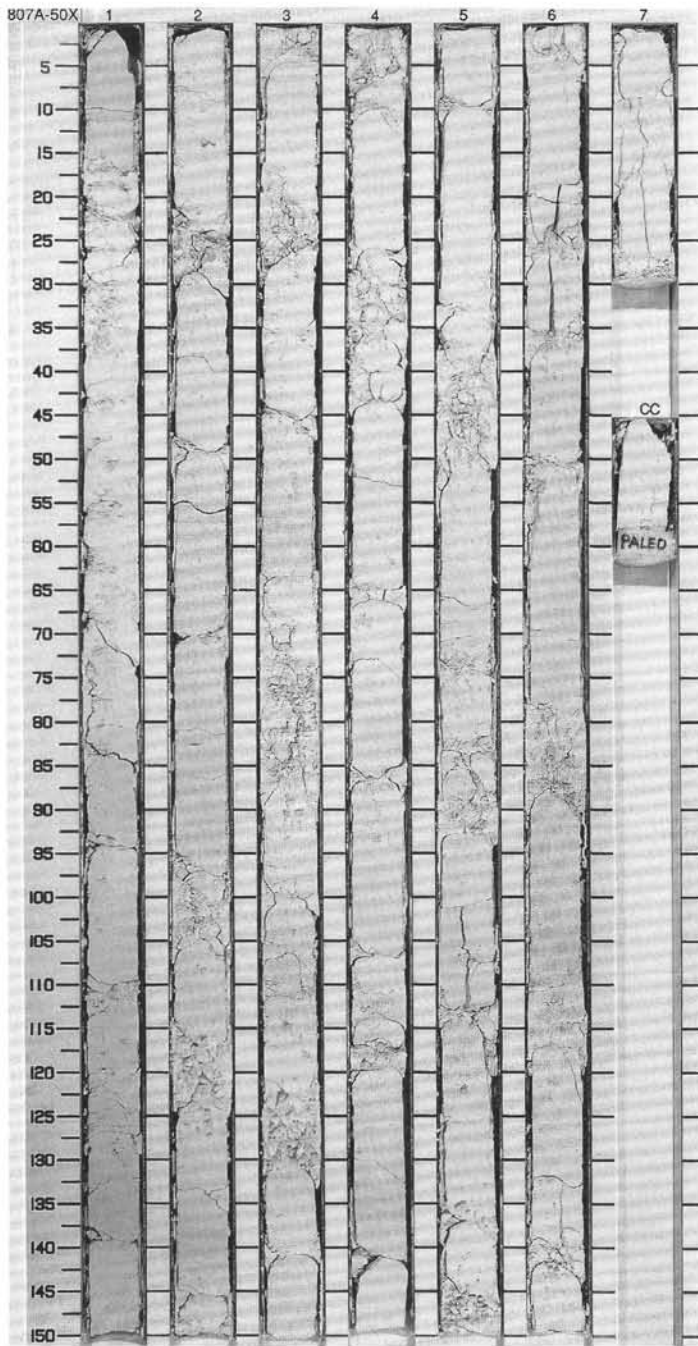


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONIS										
LOWER MIOCENE													NANNOFOSSIL CHALK with FORAMINIFERS Major lithology: This core contains white (10YR 8/1), moderately to heavily bioturbated NANNOFOSSIL CHALK with FORAMINIFERS. SMEAR SLIDE SUMMARY (%): Sand 2, 116 D TEXTURE: Sand 9 Silt 85 Clay 6 COMPOSITION: Foraminifers 14 Nannofossils 85 Radiolarians Tr Siliceous fragments 1 Silicoflagellates Tr
F/P	N6 - N7						1	0.5					
A/M	NN3						1	1.0					
R/P	?						2						
							3						
							4						
							5						
							6						
							CC						

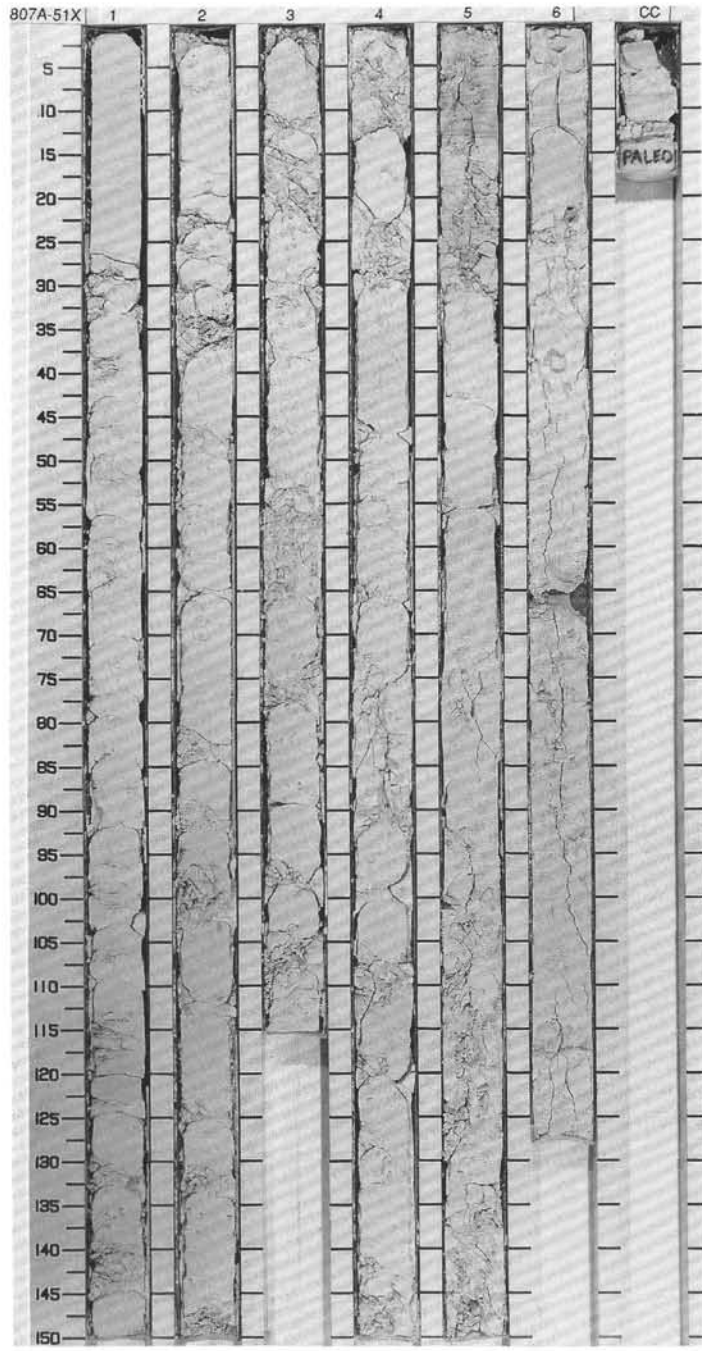


SITE 807 HOLE A CORE 50X CORED INTERVAL 466.4-476.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION	
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS									PHYS. PROPERTIES
	DIATOMS											
LOWER MIOCENE												
A/M	N5				1	0.5					<p>NANNOFOSSIL CHALK with FORAMINIFERS to FORAMINIFER NANNOFOSSIL CHALK</p> <p>Major lithology: This core contains white (2.5Y 8/6, 5Y 8/1 and 10YR 8/0) NANNOFOSSIL CHALK with FORAMINIFERS to FORAMINIFER NANNOFOSSIL CHALK. It is moderately bioturbated with faint white mottling, mm to cm size burrows, and a few pale purple (5P 6/2) pyritized burrows.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">2.66 D</p> <p>TEXTURE:</p> <p>Sand 15 Silt 80 Clay 5</p> <p>COMPOSITION:</p> <p>Foraminifers 25 Nannofossils 73 Radiolarians 1 Siliceous fragments 1 Silicoflagellates Tr</p>	
A/M	NN2				2	1.0						
C/P	<i>Stichocorys wolfii</i>				3							
R/P	?				4							
					5							
					6							
					7		VOID					



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																												
LOWER MIOCENE	N5	NN2	?										<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains white (10YR 8.0 and 2.5Y 8.0) NANNOFOSSIL CHALK with FORAMINIFERS. Moderate bioturbation is indicated by faint mottling in various shades of white. Single, small (mm size) grayish blue (5PB 5.2) pyritized burrows are present. From the lower half of Section 4 to the base of the core, mm size distinct, and cm size diffuse light gray (N7) to gray (N5) color bands are common.</p> <p>SMEAR SLIDE SUMMARY (%)</p> <table> <tr><td>Sand</td><td>3.44</td></tr> <tr><td>Silt</td><td>D</td></tr> <tr><td>Clay</td><td>D</td></tr> </table> <p>TEXTURE:</p> <table> <tr><td>Sand</td><td>25</td></tr> <tr><td>Silt</td><td>70</td></tr> <tr><td>Clay</td><td>5</td></tr> </table> <p>COMPOSITION:</p> <table> <tr><td>Foraminifers</td><td>22</td></tr> <tr><td>Nannofossils</td><td>75</td></tr> <tr><td>Radiolarians</td><td>3</td></tr> </table>	Sand	3.44	Silt	D	Clay	D	Sand	25	Silt	70	Clay	5	Foraminifers	22	Nannofossils	75	Radiolarians	3
Sand	3.44																														
Silt	D																														
Clay	D																														
Sand	25																														
Silt	70																														
Clay	5																														
Foraminifers	22																														
Nannofossils	75																														
Radiolarians	3																														
A/M				0-51.2 P=1.84	0-51.9 P=1.83	0-51.3 P=1.83	1																								
A/M				0-49.0 P=1.86	0-51.9 P=1.83	0-51.3 P=1.83	2																								
R-F/P				0-52.9 P=1.81	0-51.9 P=1.83	0-51.3 P=1.83	3																								
				0-51.6 P=1.84	0-51.9 P=1.83	0-51.3 P=1.83	4																								
				0-51.6 P=1.84	0-51.9 P=1.83	0-51.3 P=1.83	5																								



SITE 807 HOLE A CORE 52X CORED INTERVAL 485.8-495.4 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAATOMS							
LOWER MIOCENE											
A/M	N5										
A/P	NN2										
C/P	<i>Stichocorys wolffii</i>										
R/P	?										
					0-55.0 P=1.77 ●%CaCO ₃ =95.9	0.5					
					0-53.1 P=1.179 ●%CaCO ₃ =94.4 0-95.9 ●%CaCO ₃ =95.9	1.0					
						2					
						3					
						4					
						5					
						6					
						CC					

NANNOFOSSIL CHALK with FORAMINIFERS to FORAMINIFER NANNOFOSSIL CHALK.
 Major lithology: This core contains slightly to heavily bioturbated, white (2.5Y 8/0 and 10YR 8/0) NANNOFOSSIL CHALK with FORAMINIFERS to FORAMINIFER NANNOFOSSIL CHALK. Pyrite-filled burrows give rise to a grayish blue (5PB 5/2) hue for the lower 10 cm of Section 2 and to a pale purple (5PB 7/2) hue in the lower 40 cm of Section 3. A single distinct greenish gray (5G 6/1) color band and several mm to cm size diffuse light greenish gray (5G 7/1) bands are present. A 2 to 3 cm diameter porcellanite nodule is located in Section 6, 60 cm.

SMEAR SLIDE SUMMARY (%):

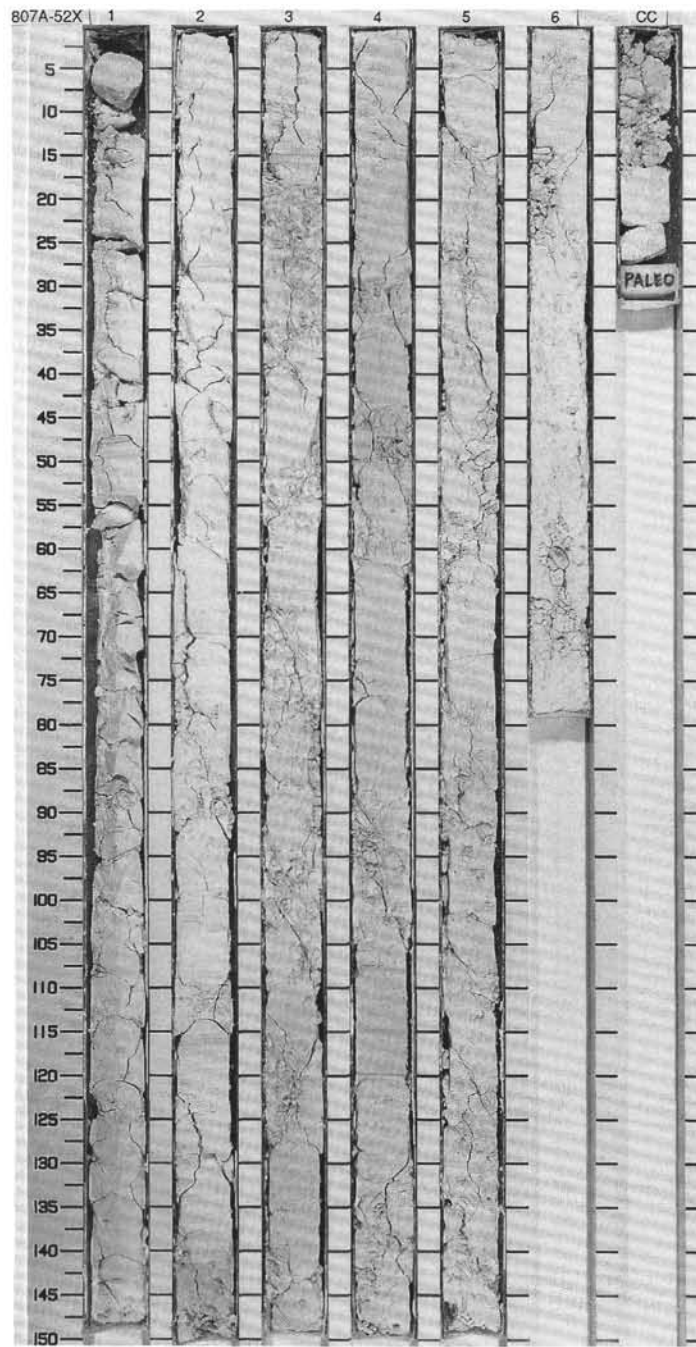
Sand	3.91
Silt	D
Clay	

TEXTURE:

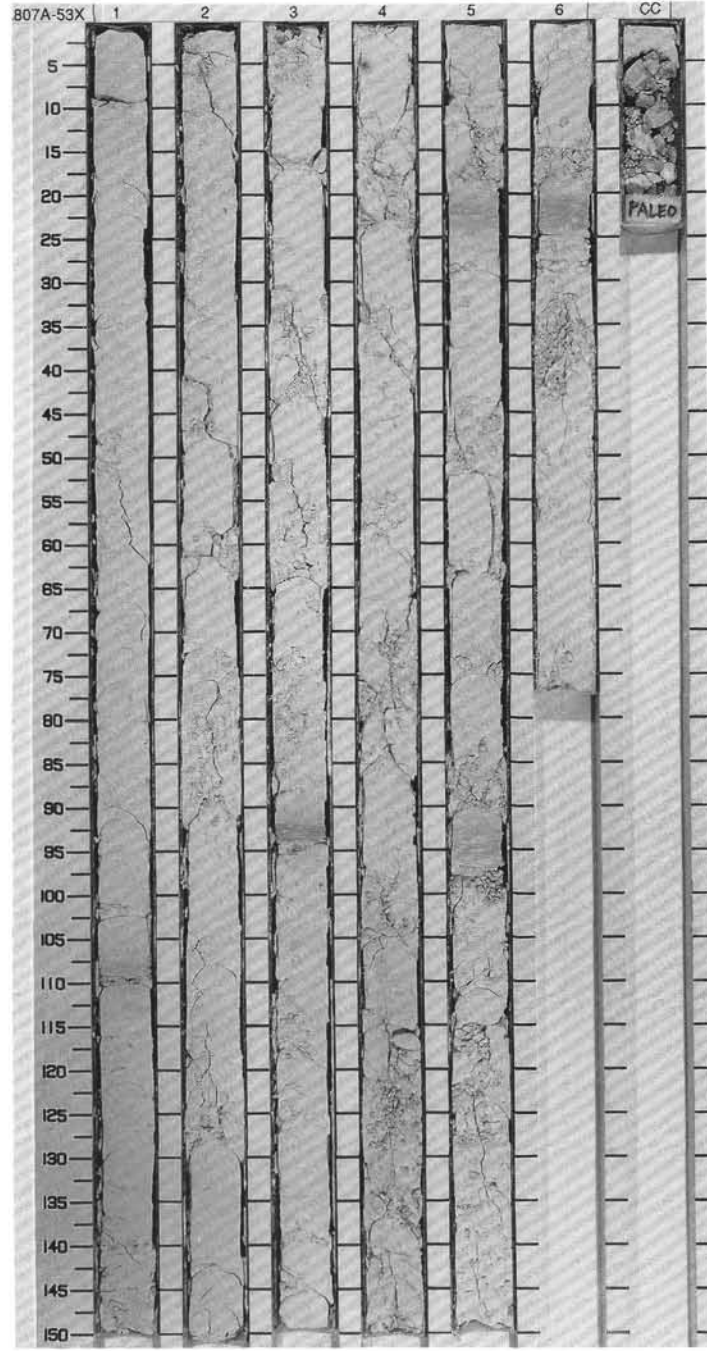
Sand	10
Silt	85
Clay	5

COMPOSITION:

Foraminifers	25
Nannofossils	73
Radiolarians	1
Silicoflagellates	1

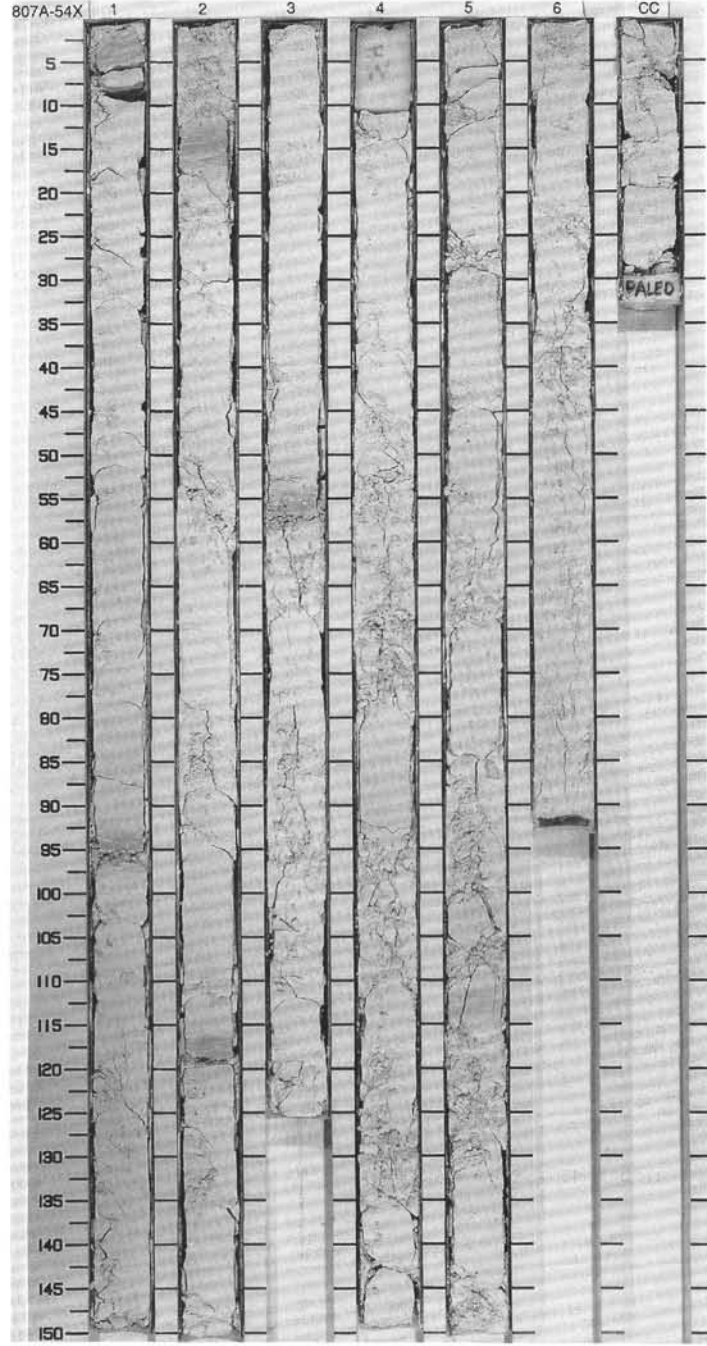


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
LOWER MIOCENE													
A/M	N5												
A/M	NN2												
C/P	<i>Stichocorys delmontensis</i> - <i>Stichocorys wolffii</i>												
R/P	?												
				● 54.0 ● 51.8	● 94.4 ● 91.8	● 94.9 ● 92.7	1						
				● 59.4 ● 57.9	● 95.4 ● 93.7		2						
				● 54.0 ● 51.8	● 95.0 ● 93.4		3						
				● 54.2 ● 51.7	● 96.0 ● 94.0		4						
				● 57.4 ● 55.0	● 92.4 ● 90.0		5						
							6						
							CC						

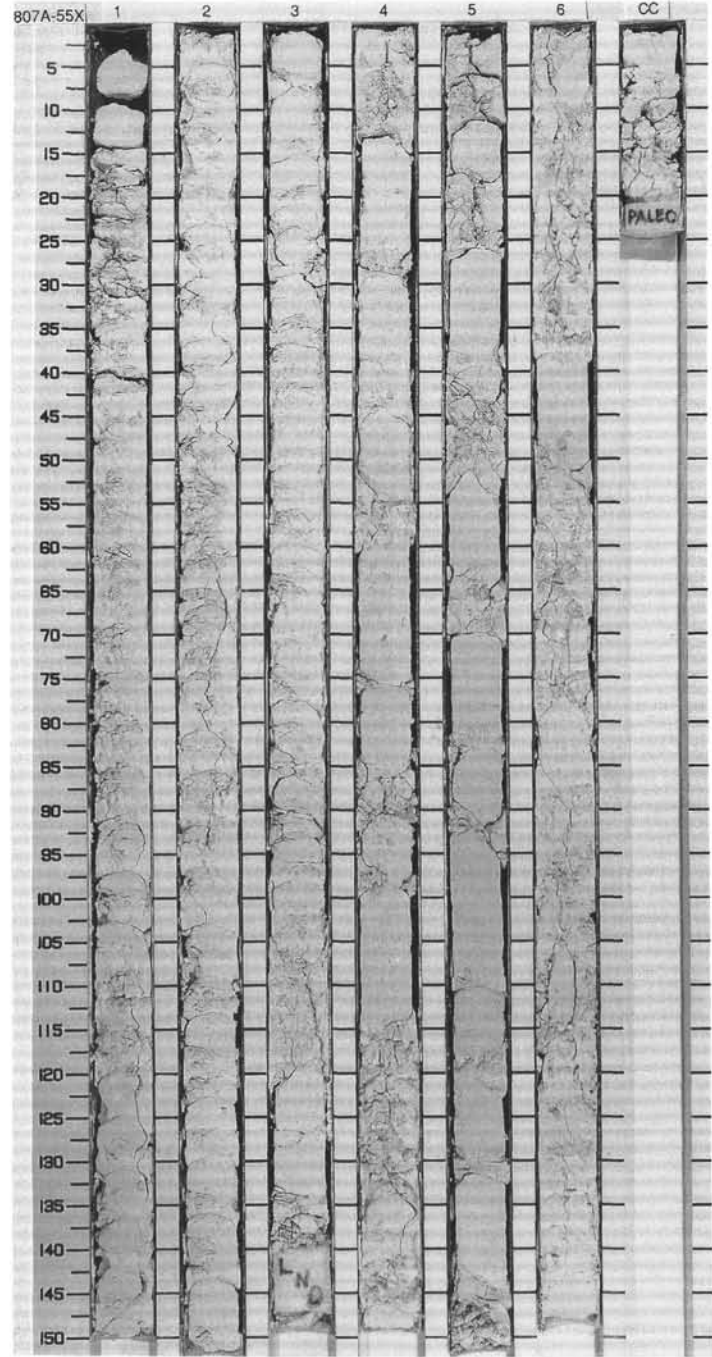


SITE 807 HOLE A CORE 54X CORED INTERVAL 505.1-514.8 mbsf

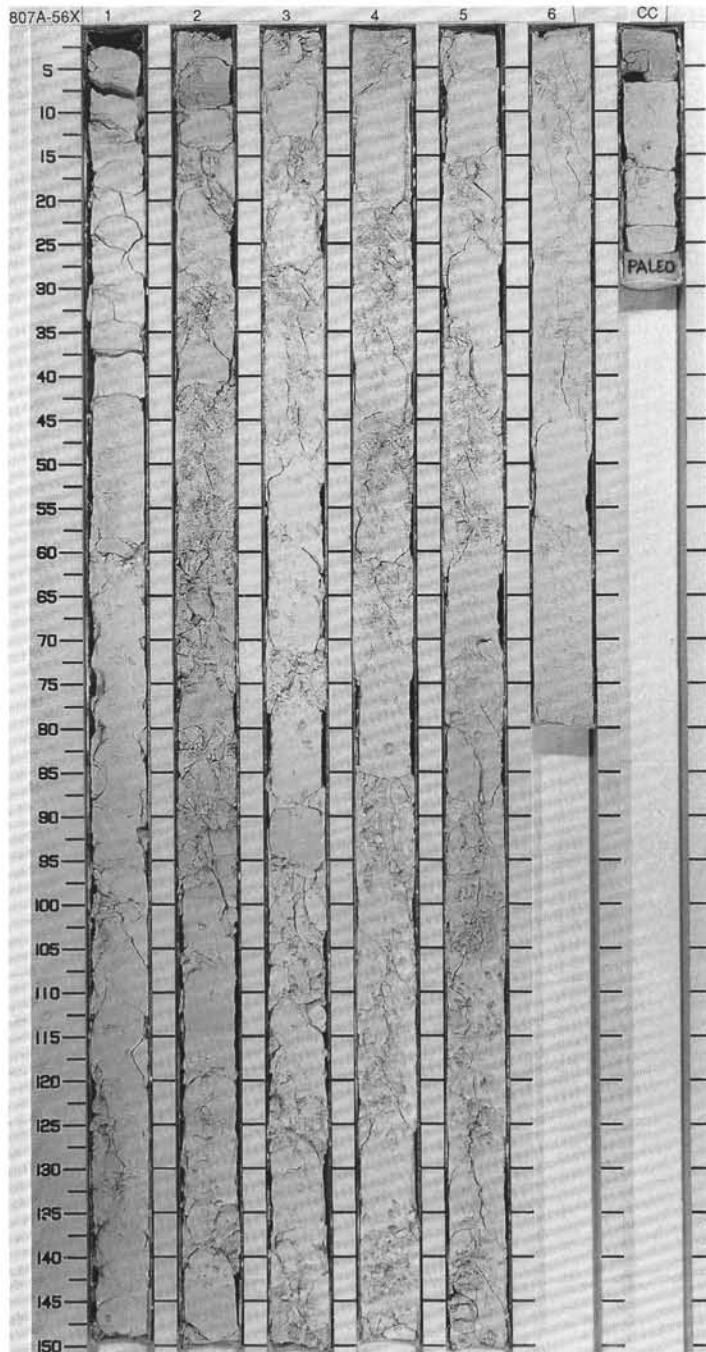
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTORB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
LOWER MIOCENE														
A/C	N4													
A/M	NN2													
C/P	<i>Stichocorys delmontensis</i>													
R/P	?NTD 1 <i>Rosella paleacea</i>													
					0-54.4 P-1.79 %CaCO ₃ 95.0	0-54.9 P-1.78 %CaCO ₃ -95.7		1	0.5					
					0-53.9 P-1.80 %CaCO ₃ -96.9			2						
					0-55.8 P-1.77 %CaCO ₃ -95.0			3						
					0-57.2 P-1.74 %CaCO ₃ -94.4			4						
					0-57.3 P-1.74 %CaCO ₃ -96.6			5						
					0-57.2 P-1.72 %CaCO ₃ -94.4			6						
								CC						



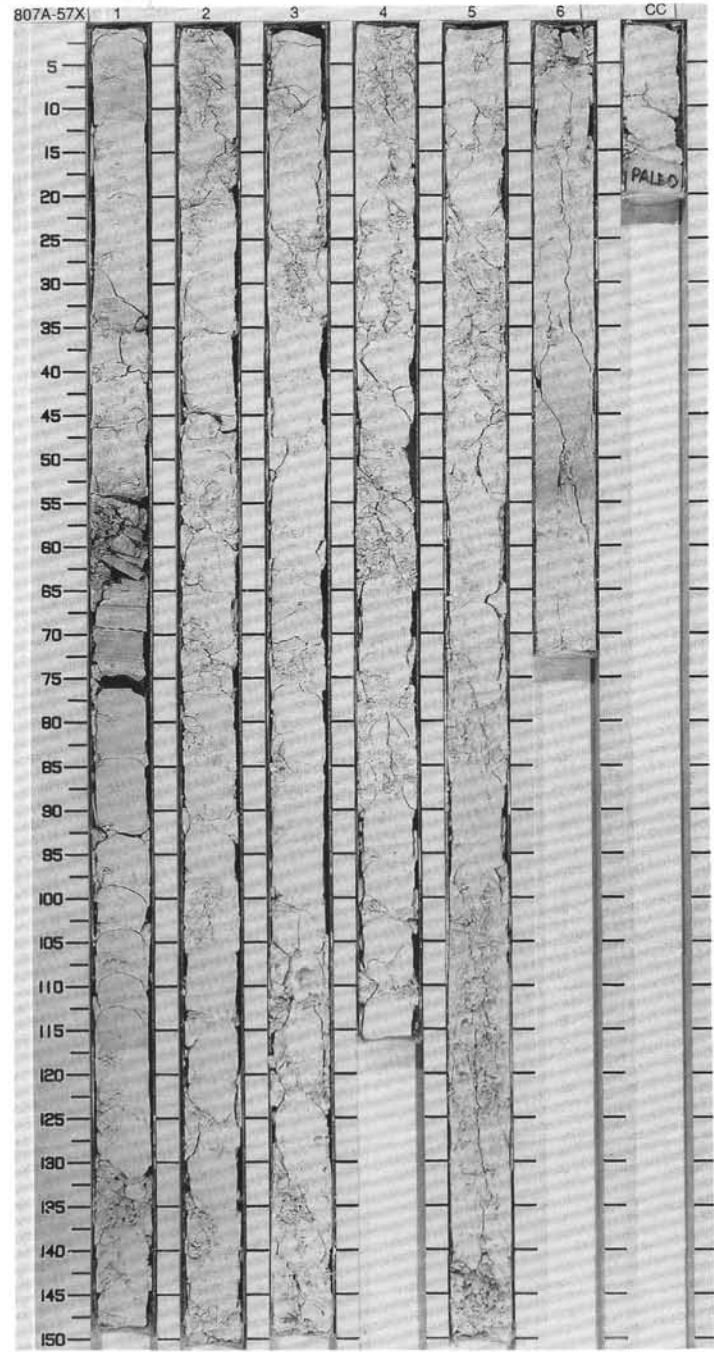
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONES	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
LOWER MIOCENE		N4	NN2		?NTD 1				1	0.5 1.0					<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology. This core contains white (2.5Y 8/0) NANNOFOSSIL CHALK with FORAMINIFERS. There is some indication of bioturbation, with faint mottles and a few pyrite filled burrows. Sections 5 and 6 have abundant mm thick, light gray (5Y 7/1) and pale purple (5P 6/2) color bands. The drilling process has resulted in abundant fracturing and biscuit formation.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>TEXTURE</p> <p>Sand 15 Silt 56 Clay 30</p> <p>COMPOSITION:</p> <p>Accessory minerals 1 Foraminifers 18 Nannofossils 78 Siliceous fragments 3</p>
A/G									2						
A/M									3						
R/P									4						
									5						
									6						
									CC						



TIME-ROCK UNIT			PALEOMAGNETICS	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
BIOSTRAT. ZONE/ FOSSIL CHARACTER										
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS								
LOWER MIOCENE										
A/G	N4									
A/M	NN2									
A/M	<i>Sirchocorys delmontensis</i>									
R-F/P	?									
			V-1704 ● $\delta^{17}O_{2}$ 1.83	V-1677 ● $\delta^{18}O_{2}$ 3.0	V-1618 ● $\delta^{18}O_{2}$ 3.8	V-1618 ● $\delta^{18}O_{2}$ 3.8				
				V-1711 ● $\delta^{17}O_{2}$ 1.85	V-1618 ● $\delta^{17}O_{2}$ 1.79	V-1618 ● $\delta^{17}O_{2}$ 1.79				

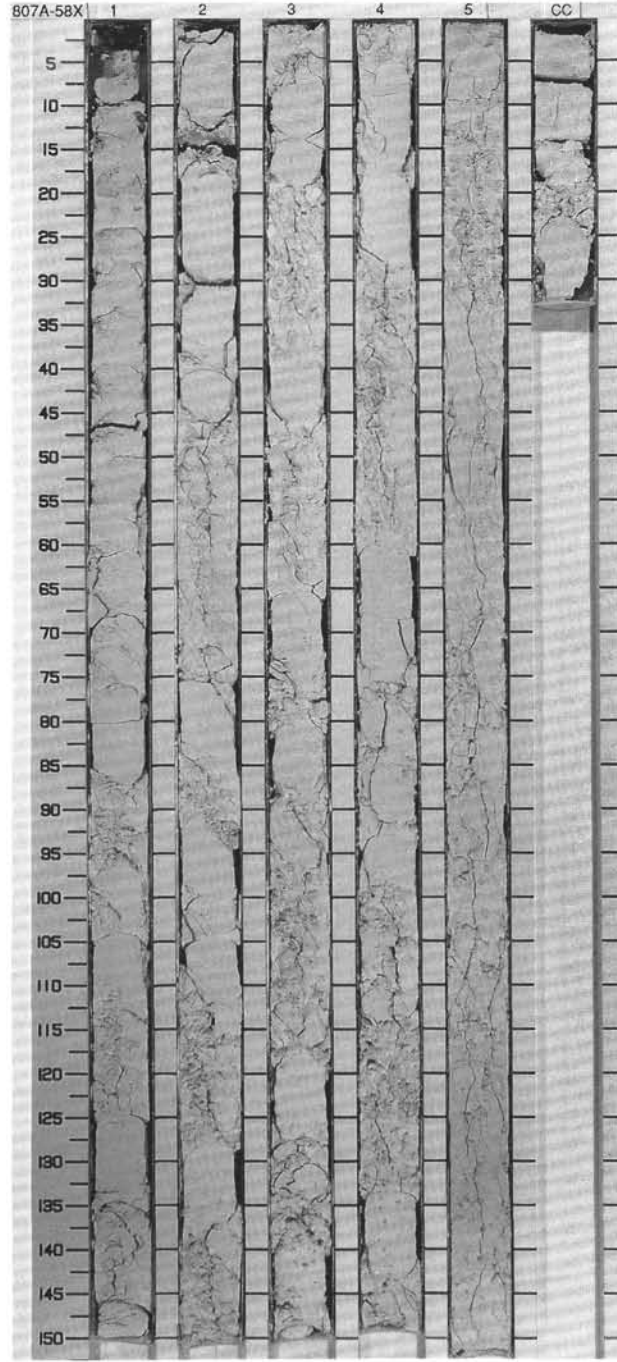


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
LOWER MIOCENE													
A/M	N4				● 54.0 ● 54.1 ● 54.2 ● 54.3 ● 54.4 ● 54.5	%CaCO ₃		0.5 1.0					<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology. This core contains white (2.5Y 8.0) NANNOFOSSIL CHALK with FORAMINIFERS. The chalk is predominantly homogeneous. A few 20 to 40 cm thick intervals are pale pink (5RP 8.2) and exhibit very fine-scale (1 mm) greenish gray (5G 7.1), pale purple (5P 6.2), and white (2.5Y 8.0) color bands. Bioturbation appears to be minor.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">3.75 D</p> <p>TEXTURE:</p> <p>Sand 5 Silt 80 Clay 15</p> <p>COMPOSITION:</p> <p>Diatoms Tr Foraminifers 20 Nannofossils 77 Siliceous fragments 2</p>
A/M	NN2			● 54.1 ● 54.2 ● 54.3 ● 54.4 ● 54.5	%CaCO ₃		2						
R/P	?			● 54.1 ● 54.2 ● 54.3 ● 54.4 ● 54.5	%CaCO ₃		3						
				● 54.1 ● 54.2 ● 54.3 ● 54.4 ● 54.5	%CaCO ₃		4						
				● 54.1 ● 54.2 ● 54.3 ● 54.4 ● 54.5	%CaCO ₃		5						
				● 54.1 ● 54.2 ● 54.3 ● 54.4 ● 54.5	%CaCO ₃		6						
							CC						

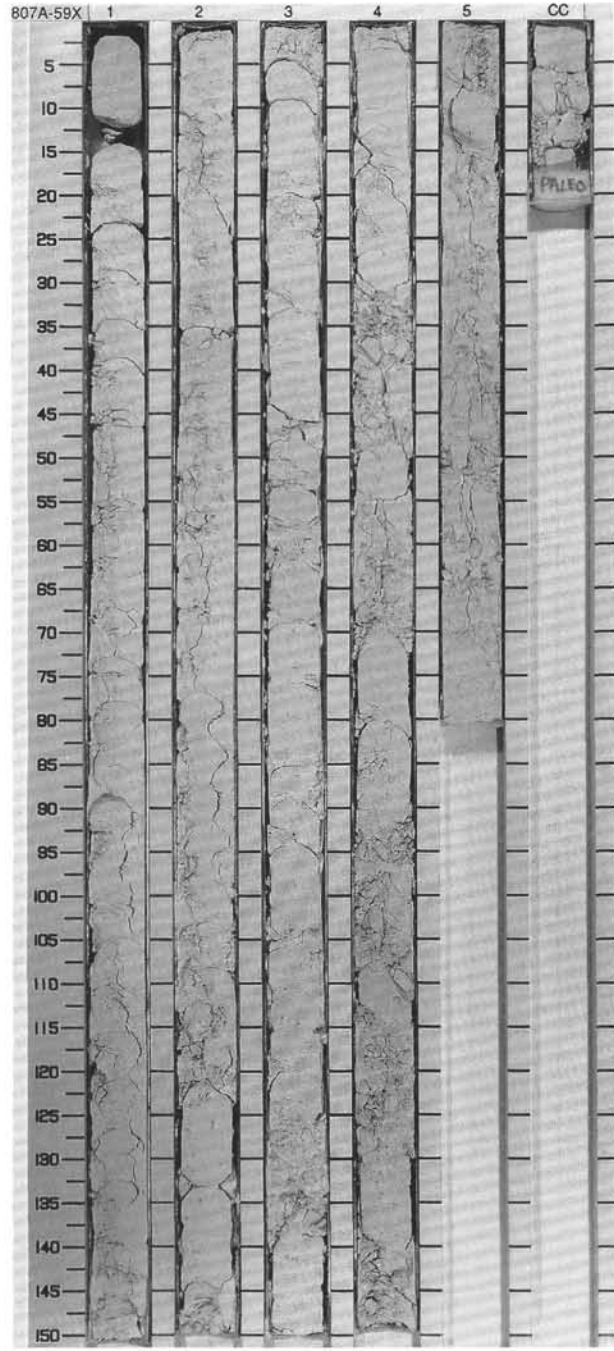


SITE 807 HOLE A CORE 58X CORED INTERVAL 543.4-553.0 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/FOSSIL CHARACTER		PALEOMAGNETICS	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																		
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									PHYS. PROPERTIES	CHEMISTRY																
LOWER MIOCENE																													
A/G	N4										<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains homogeneous, white (2.5Y 8/0) NANNOFOSSIL CHALK with FORAMINIFERS. The basal 10 cm of Sections 4 and 5 are pale pink (SRP 6/2) in color. One thin (1 mm) bluish gray color band is present above the pale pink interval in Section 5. There is very little evidence of bioturbation.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table> <tr><td>Foraminifers</td><td>3.75</td></tr> <tr><td>D</td><td></td></tr> </table> <p>TEXTURE:</p> <table> <tr><td>Sand</td><td>10</td></tr> <tr><td>Silt</td><td>60</td></tr> <tr><td>Clay</td><td>30</td></tr> </table> <p>COMPOSITION:</p> <table> <tr><td>Foraminifers</td><td>12</td></tr> <tr><td>Nannofossils</td><td>88</td></tr> <tr><td>Radiolarians</td><td>Tr</td></tr> <tr><td>Siliceous fragments</td><td>Tr</td></tr> </table>	Foraminifers	3.75	D		Sand	10	Silt	60	Clay	30	Foraminifers	12	Nannofossils	88	Radiolarians	Tr	Siliceous fragments	Tr
Foraminifers	3.75																												
D																													
Sand	10																												
Silt	60																												
Clay	30																												
Foraminifers	12																												
Nannofossils	88																												
Radiolarians	Tr																												
Siliceous fragments	Tr																												
A/M	NN2					1																							
C/P	<i>Striobocorys delmontensis</i>			V-1714 @ 543.8 V-1714 @ 547.79	%CaCO ₃ =96.0	1.0																							
F-C/P	?			V-1714 @ 545.2 V-1714 @ 547.76	%CaCO ₃ =95.6	2																							
				V-1664 @ 547.5 V-1690 @ 547.79	%CaCO ₃ =95.5	3																							
				V-1664 @ 547.80	%CaCO ₃ =95.8	4																							
						5																							
						CC																							

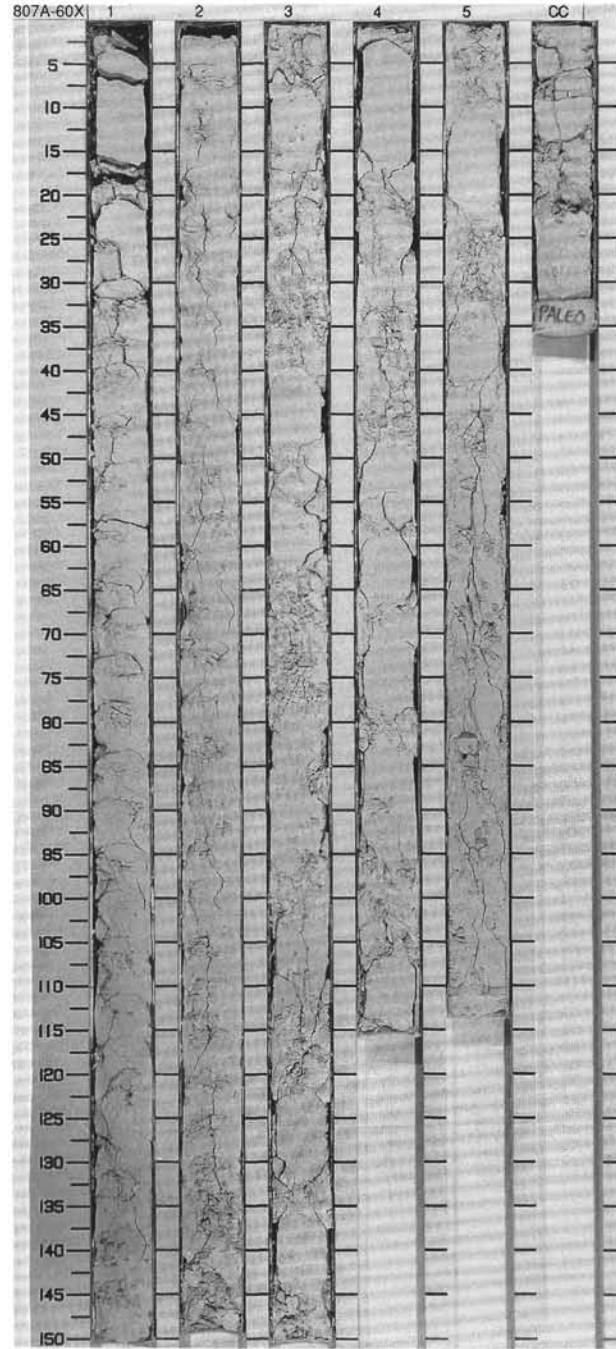


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																		
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONS																												
LOWER MIOCENE													<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains homogeneous white (2.5Y 8.0) NANNOFOSSIL CHALK with FORAMINIFERS. A few intervals of pale pink (SRP 8.2) and light gray (2.5Y 7.0) sediment are noted. Evidence of bioturbation is scarce and consists of a few pyritized burrows.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr><td>Sand</td><td>3.75</td></tr> <tr><td>Silt</td><td>D</td></tr> <tr><td>Clay</td><td>D</td></tr> </table> <p>TEXTURE:</p> <table border="0"> <tr><td>Sand</td><td>5</td></tr> <tr><td>Silt</td><td>75</td></tr> <tr><td>Clay</td><td>20</td></tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr><td>Foraminifers</td><td>10</td></tr> <tr><td>Nannofossils</td><td>89</td></tr> <tr><td>Siliceous fragments</td><td>1</td></tr> </table>	Sand	3.75	Silt	D	Clay	D	Sand	5	Silt	75	Clay	20	Foraminifers	10	Nannofossils	89	Siliceous fragments	1
Sand	3.75																														
Silt	D																														
Clay	D																														
Sand	5																														
Silt	75																														
Clay	20																														
Foraminifers	10																														
Nannofossils	89																														
Siliceous fragments	1																														
A/M	N4			V-1699 85.8	● V-1701 85.3	● XCaCO ₃ -95.8	1																								
A/M	NN2			● V-1712 85.6	● XCaCO ₃ -95.6	● XCaCO ₃ -94.8	1																								
A/P	<i>Cyrtocapsella tetrapera</i>						2																								
F/P	?						3																								
							4																								
							5																								



SITE 807 HOLE A CORE 60X CORED INTERVAL 562.6-572.3 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS											
LOWER MIOCENE												
A/G	N4											<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains homogeneous, white (2.5Y 8/0) NANNOFOSSIL CHALK with FORAMINIFERS. A 1 cm thick interval, at the base of Section 5, has very thin, grayish blue (5PB 5/2) bands. Bioturbation structures are not seen.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">3.74 D</p> <p>TEXTURE:</p> <p>Sand 10 Silt 55 Clay 35</p> <p>COMPOSITION:</p> <p>Accessory minerals 1 Foraminifers 13 Nannofossils 84 Siliceous fragments 2</p>
A/M	NN2	<i>Cryptocapsella tetrapera</i>				1	0.5					
C/P	?					2	1.0					
F/P						3						
						4						
						5						
						CC						



SITE 807 HOLE A CORE 61X CORED INTERVAL 572.3-581.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS DIATOMS										
LOWER MIOCENE													
A/G	N4												
A/M	NN1 - NN2												
A/P	<i>Cyrtocapsella tetrapera</i>												
R-F/P	?												
				● V-1711 ● 54.6 ● V-1711 ● 1.79		● %CaCO ₃ -93.0							
				● V-1711 ● 1.77		● %CaCO ₃ -93.4							
				● V-1711 ● 1.81		● %CaCO ₃ -94.6							
				● V-1780 ● 32.9 ● V-1780 ● 1.81		● %CaCO ₃ -93.6							

NANNOFOSSIL CHALK with FORAMINIFERS

Major lithology: This core contains white (2.5Y 8/0), homogeneous NANNOFOSSIL CHALK with FORAMINIFERS. The drilling process has resulted in abundant fracturing and biscuiting in the top three sections. Bioturbation is apparent on clean split faces as mottles that are compacted in the vertical direction.

SMEAR SLIDE SUMMARY (%):

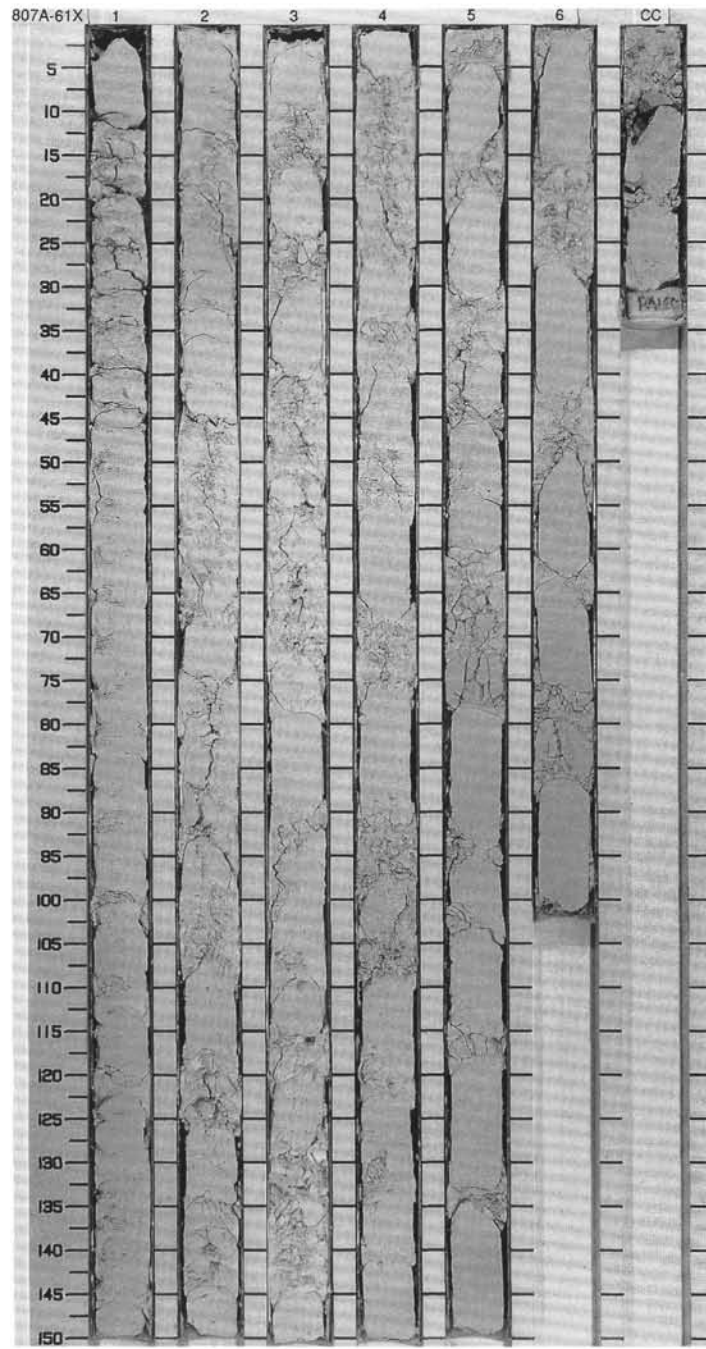
3.75
D

TEXTURE:

Sand 5
Silt 60
Clay 35

COMPOSITION:

Foraminifers 10
Nannofossils 89
Siliceous fragments 1
Siliceous sponge spicules Tr



SITE 807 HOLE A CORE 62X CORED INTERVAL 581.9-591.6 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONS										
UPPERMOST OLIIGOCENE - basal MIOCENE													
A/M		P22 - N4											
A/M		NN1 - NN2											
A/P		<i>Lyncnocanoma elongata</i>											
R/P		?											
				V-1837 83.0 V-1821 83.0	V-1747 91.7	V-1747 91.7							
				•%CaCO ₃ = 93.8	•%CaCO ₃ = 94.7	•%CaCO ₃ = 90.0							
				V-1821 83.0 V-1837 83.0	V-1747 91.7	V-1747 91.7							
				•%CaCO ₃ = 83.5	•%CaCO ₃ = 83.5	•%CaCO ₃ = 83.5							
				•%CaCO ₃ = 91.7	•%CaCO ₃ = 91.7	•%CaCO ₃ = 91.7							
				V-1821 83.0 V-1837 83.0	V-1747 91.7	V-1747 91.7							
				•%CaCO ₃ = 93.8	•%CaCO ₃ = 94.7	•%CaCO ₃ = 90.0							

NANNOFOSSIL CHALK with FORAMINIFERS

Major lithology. This core contains white (10YR 8/0 and 10YR 8/1) NANNOFOSSIL CHALK with FORAMINIFERS. Bioturbation is apparent on clean split faces as predominantly horizontal mottles. The lower part of Sections 4 through CC are slightly tinted with grayish blue (5PB 5-2), pyrite-filled burrows. Poorly developed, gray (N6) fibser structures and light gray (N7) color bands appear in Section 4, 25-30 cm, in Section 5, 9 and 132 cm, and in Section 6, 9 cm.

SMEAR SLIDE SUMMARY (%)

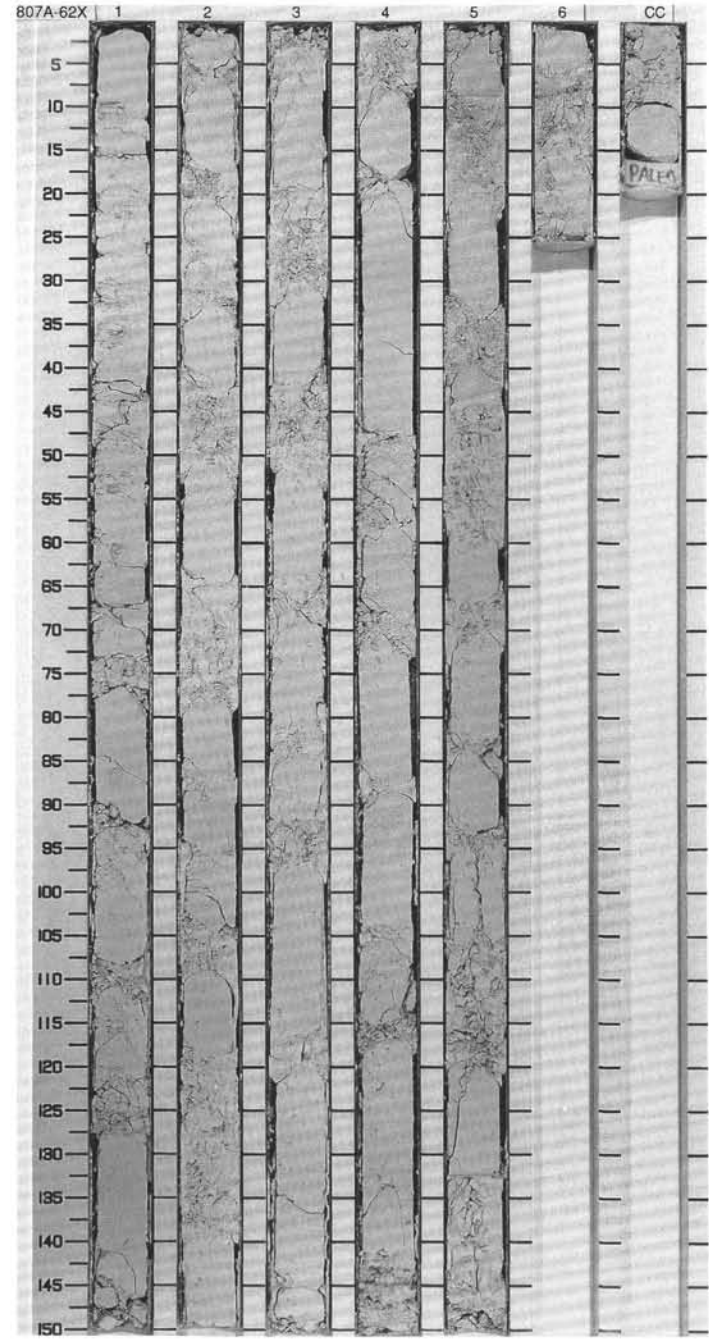
3.78
D

TEXTURE:

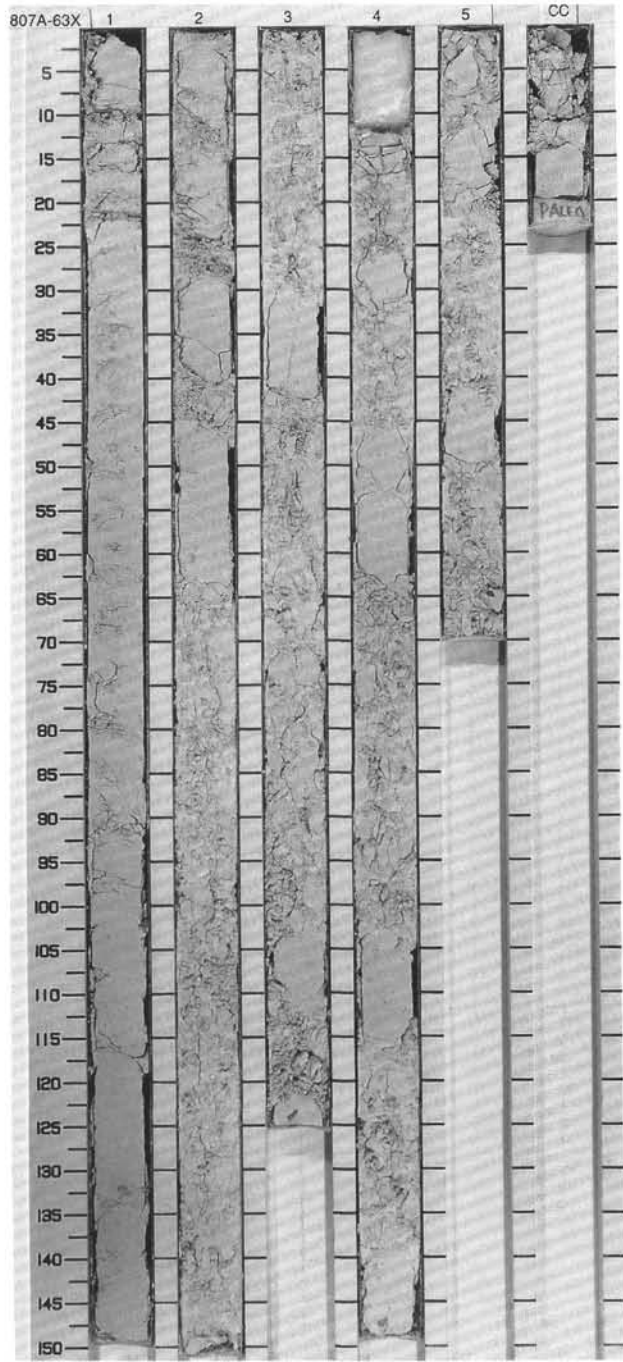
Sand 8
Silt 85
Clay 7

COMPOSITION:

Foraminifera 15
Nannofossils 83
Radiolarians 1
Siliceous fragments 1

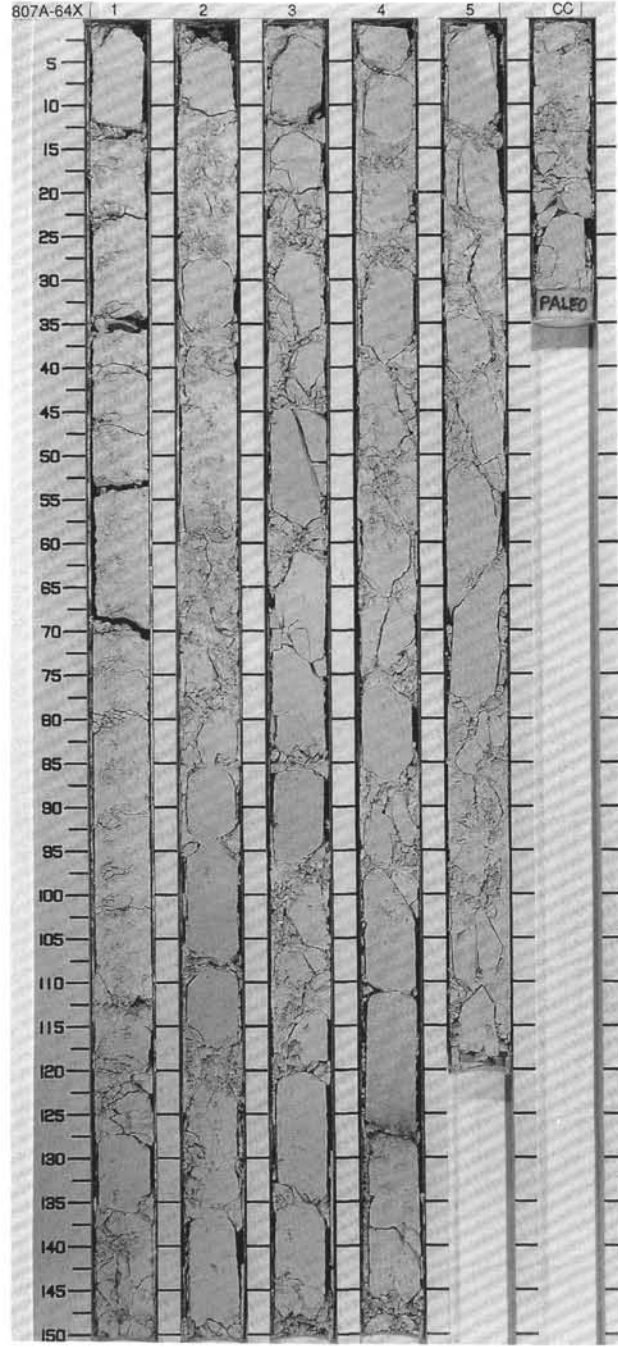


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS		PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PHYS. PROPERTIES	CHEMISTRY								
UPPER OLILOCENE													
A/M	P22												NANNOFOSSIL CHALK with FORAMINIFERS Major lithology: This core contains heavily to moderately bioturbated, white (10YR 8/0 and 10YR 8/1) NANNOFOSSIL CHALK with FORAMINIFERS. Bioturbation appears as predominantly horizontal mottles. Sections 1, 2 and 3 are tinted slightly with pale blue (5PB 7/2) and grayish blue (5PB 5/2) pyrite-filled burrows. SMEAR SLIDE SUMMARY (%): Silt 4.60 D TEXTURE: Sand 30 Silt 65 Clay 5 COMPOSITION: Foraminifers 15 Nannofossils 80 Radiolarians 4 Siliceous fragments Tr Silicoflagellates Tr
F/P	NN1 - NN2 <i>Lychnocanoma elongata</i> ?			1/1756 ●XCaCO ₃ +93.7 ●V-1.773	1/1725 ●XCaCO ₃ +82.5 ●XCaCO ₃ +92.3	1	0.5						
R/P				4/189 ●XCaCO ₃ +92.3 ●V-1.84	4/188 ●XCaCO ₃ +92.3 ●V-1.84	2	1.0						
				4/189 ●XCaCO ₃ +92.3 ●V-1.84	4/188 ●XCaCO ₃ +92.3 ●V-1.84	3	1.5						
				4/189 ●XCaCO ₃ +92.3 ●V-1.84	4/188 ●XCaCO ₃ +92.3 ●V-1.84	4	2.0						

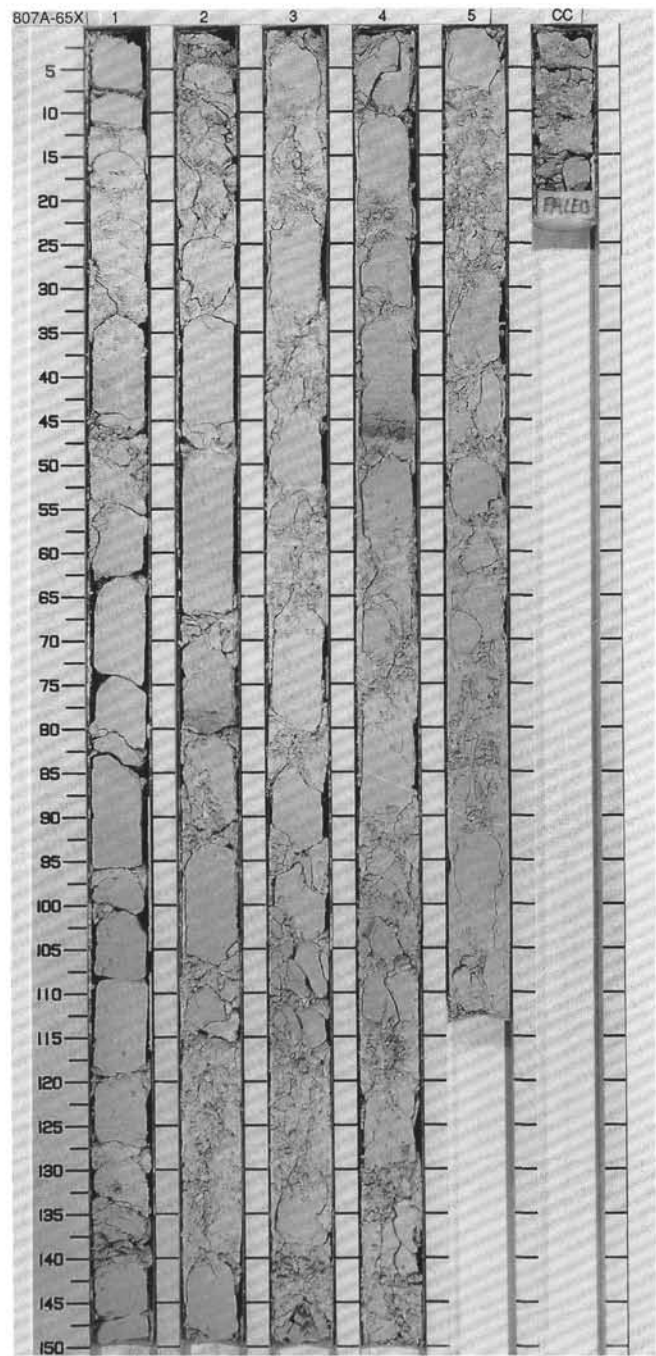


SITE 807 HOLE A CORE 64X CORED INTERVAL 601.3-611.0 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS		SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PHYS. PROPERTIES	CHEMISTRY							
UPPER OLIGOCENE												
A/M	P22											
A/P	NN1 - NN2											
A/P	<i>Lynchnocanoma elongata</i>											
R/P	?											
	V-1832	V-1816	V-1935	V-1767	V-1832	1	0.5					<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology. This core contains slightly to moderately bioturbated, white (10YR 8/1 and 2.5Y 8/0) NANNOFOSSIL CHALK with FORAMINIFERS. Bioturbation structures appear predominantly as horizontal mottles. The interval from 120 to 135 cm in Section 4 is composed of gray (5YR 6/1) burrowed sediment, with probable <i>Teichichnus</i>-type burrows.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">3.90 D</p> <p>TEXTURE:</p> <p>Sand 8 Silt 88 Clay 4</p> <p>COMPOSITION:</p> <p>Foraminifers 10 Nannofossils 86 Radiolarians 1 Silicoflagellates 1 Spicules 2</p>
	●%CaCO ₃ -91.5	●%CaCO ₃ -91.5	●%CaCO ₃ -89.6	●%CaCO ₃ -93.0	●%CaCO ₃ -93.0	2	1.0					
	V-1832	V-1816	V-1935	V-1767	V-1832	3						
	●%CaCO ₃ -91.5	●%CaCO ₃ -91.5	●%CaCO ₃ -89.6	●%CaCO ₃ -93.0	●%CaCO ₃ -93.0	4						
	V-1832	V-1816	V-1935	V-1767	V-1832	5						
	●%CaCO ₃ -91.5	●%CaCO ₃ -91.5	●%CaCO ₃ -89.6	●%CaCO ₃ -93.0	●%CaCO ₃ -93.0	CC						

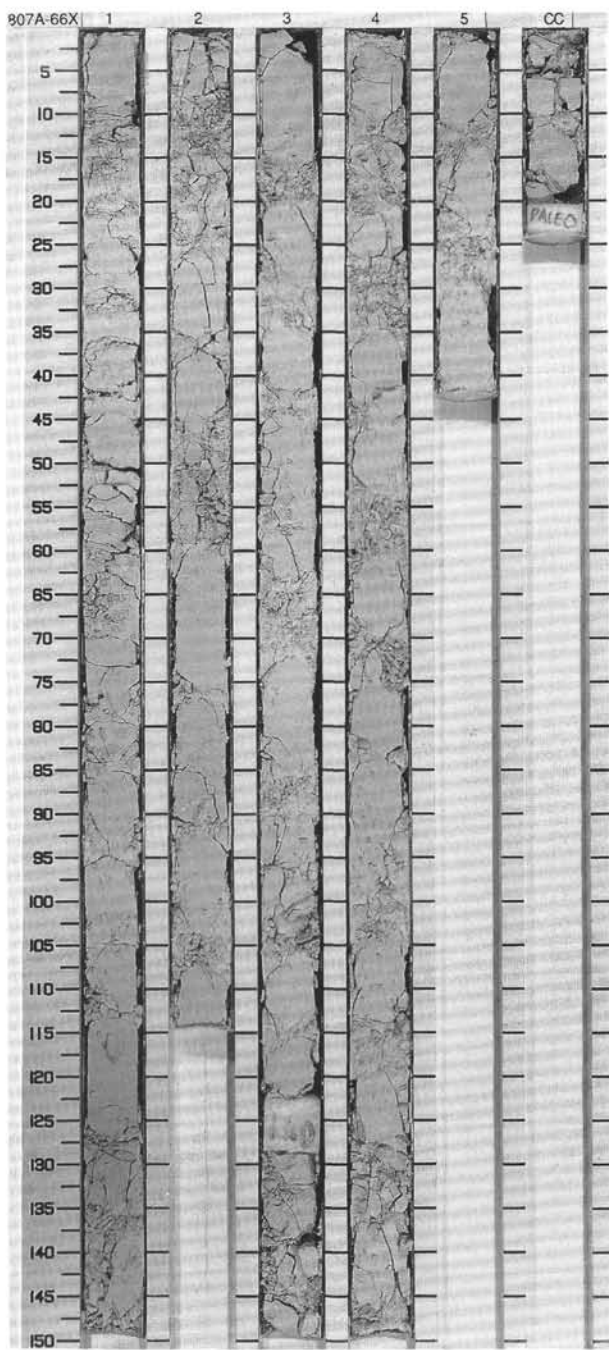


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS											
UPPER OLIGOCENE												
A/M	P22											NANNOFOSSIL CHALK with FORAMINIFERS Major lithology. This core contains moderately to heavily bioturbated, white (10YR 8/1 to 2.5Y 8/0 and 7.5YR 8/1) NANNOFOSSIL CHALK with FORAMINIFERS. Faint color banding is present in Section 4, 37-122 cm and Section 5, 35-112 cm, and results from a combination of abundant, semi-continuous horizontal burrows across the core surface and very faint, grayish blue (5PB 5/2) color banding. Well-developed, mm scale, light gray (N7) and grayish blue (5PB 5/2) color bands are present at Section 4, 47-49 cm. SMEAR SLIDE SUMMARY (%): D 2.58 TEXTURE: Sand 25 Silt 70 Clay 5 COMPOSITION: Foraminifers 10 Nannofossils 85 Radiolarians 3 Silicoflagellates Tr Spicules Tr
A/M	NP25	<i>Lychnocanoma elongata</i>				1	0.5					
A/M		<i>Rocella vigitans?</i>				1	1.0					
F/P						2						
						3						
						4						
						5						
						CC						



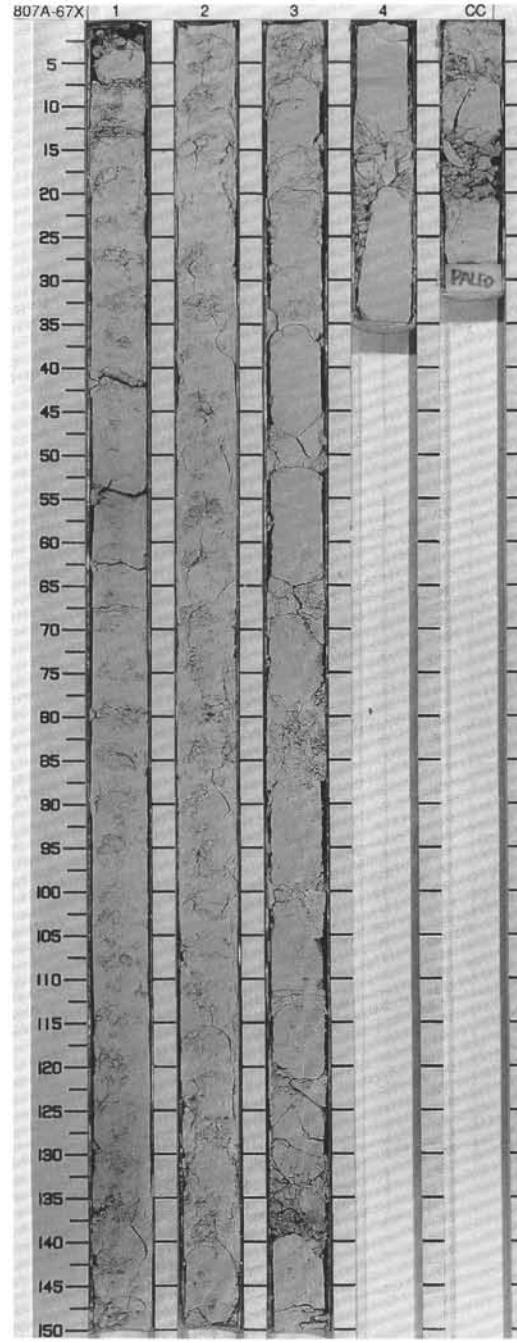
SITE 807 HOLE A CORE 66X CORED INTERVAL 620.6-630.3 mdsf

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 OLILOCENE												
A/M		P22			● $\delta^{18}O = -2.0$ ● $\delta^{13}C = -1.83$		1	0.5				<p>NANNOFOSSIL CHALK</p> <p>Major lithology. This core contains white (7.5YR 8/0 and 2.5Y 8/0) NANNOFOSSIL CHALK, which is moderately to heavily bioturbated throughout. The dominant style of bioturbation is simple, mm scale burrows. Very faint white and light gray color bands are present throughout Sections 4 and 5.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>2.70 D</p> <p>TEXTURE:</p> <p>Sand 5 Silt 75 Clay 20</p> <p>COMPOSITION:</p> <p>Foraminifers 5 Nannofossils 95 Quartz Tr Silica Tr Spicules Tr</p>
A/M		NP25			● $\delta^{18}O = -50.8$ ● $\delta^{13}C = 1.88$		2	1.0				
A/P		<i>Lychnocanoma eleganta</i>			● $\%CaCO_3 = 91.1$		3					
F-C/P		<i>Rocella vigilans</i>			● $\%CaCO_3 = 92.3$		4					
					● $\delta^{18}O = -1.6$ ● $\delta^{13}C = 1.82$		5					



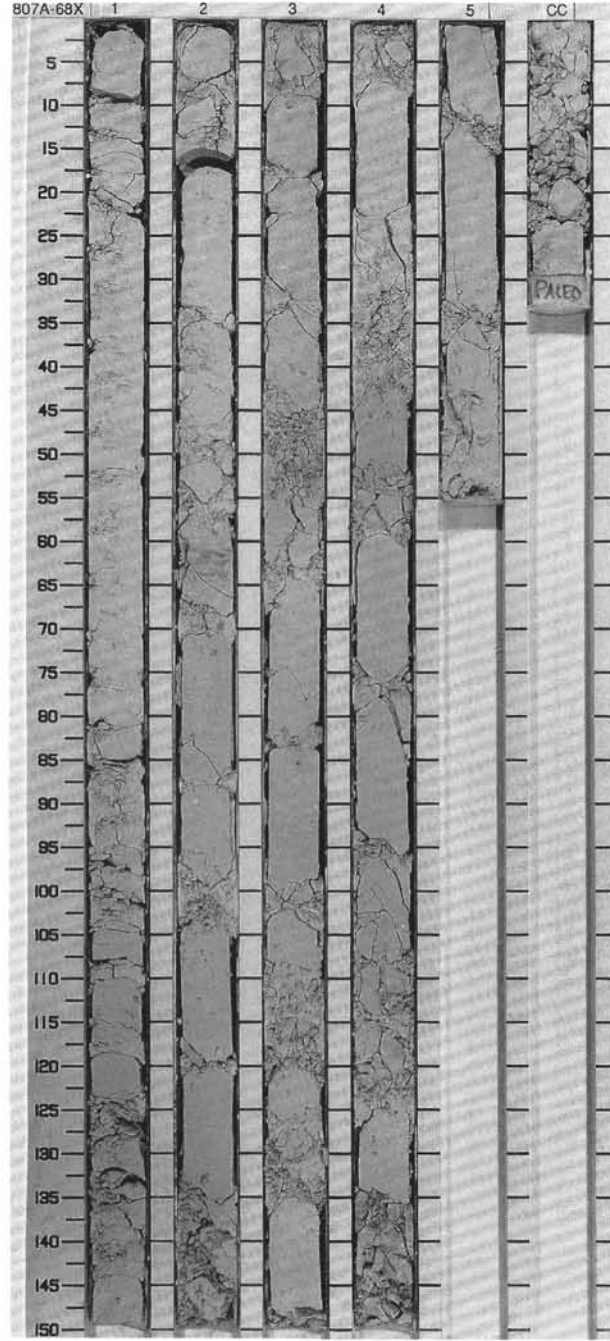
SITE 807 HOLE A CORE 67X CORED INTERVAL 630.3-639.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
UPPER OLIIGOCENE													
A/G	P 2.2												<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL CHALK with FORAMINIFERS, which is slightly to moderately bioturbated throughout. Zones with minor tints of pale purple (5P 6/2) are present in Sections 1 and 2. Gray (N6i) mm scale color bands are present at Section 3, 133-137 cm, and light gray (N7i) mm scale color bands are present at Section 4, 7-9 cm. A sample from the Core Catcher that was processed for paleontologic analyses contained abundant volcanic ash; the volcanic ash was not obvious during inspection of the core itself.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">3, 56 D</p> <p>TEXTURE:</p> <p>Sand 30 Silt 65 Clay 5</p> <p>COMPOSITION:</p> <p>Foraminifers 15 Nannofossils 80 Quartz Tr Silica Tr Silicoflagellates 1 Spicules Tr</p>
A/P	NP25						1						
A/P		<i>Lchnocanoma elongata</i>					2						
C/P		<i>Rocella vigilans</i>					3						
							4						
							CC						



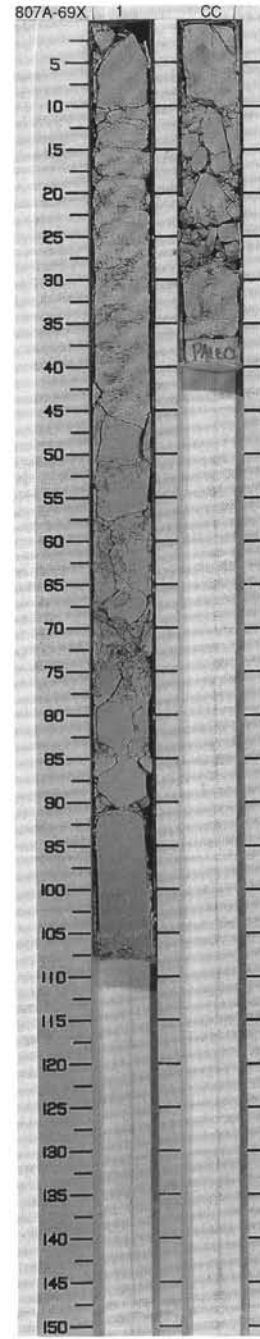
SITE 807 HOLE A CORE 68X CORED INTERVAL 639.9-649.6 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS		PHYS. PROPERTIES		SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS											
UPPER OLIGOCENE														
A/M	P22													
A/M	NP25													
A/P	<i>Dorcadospyrus areuchus</i> - <i>Lychnocanoma elongata</i>													
C/P	<i>Rocella vigilans</i>													
				● 0-51.4 P=1.84	● 0-49.1 P=1.88	● 0-51.1 P=1.84	● 0-50.8 P=1.84							
				● %CaCO ₃ =93.3	● %CaCO ₃ =96.3	● %CaCO ₃ =91.3	● %CaCO ₃ =92.4							
CC														



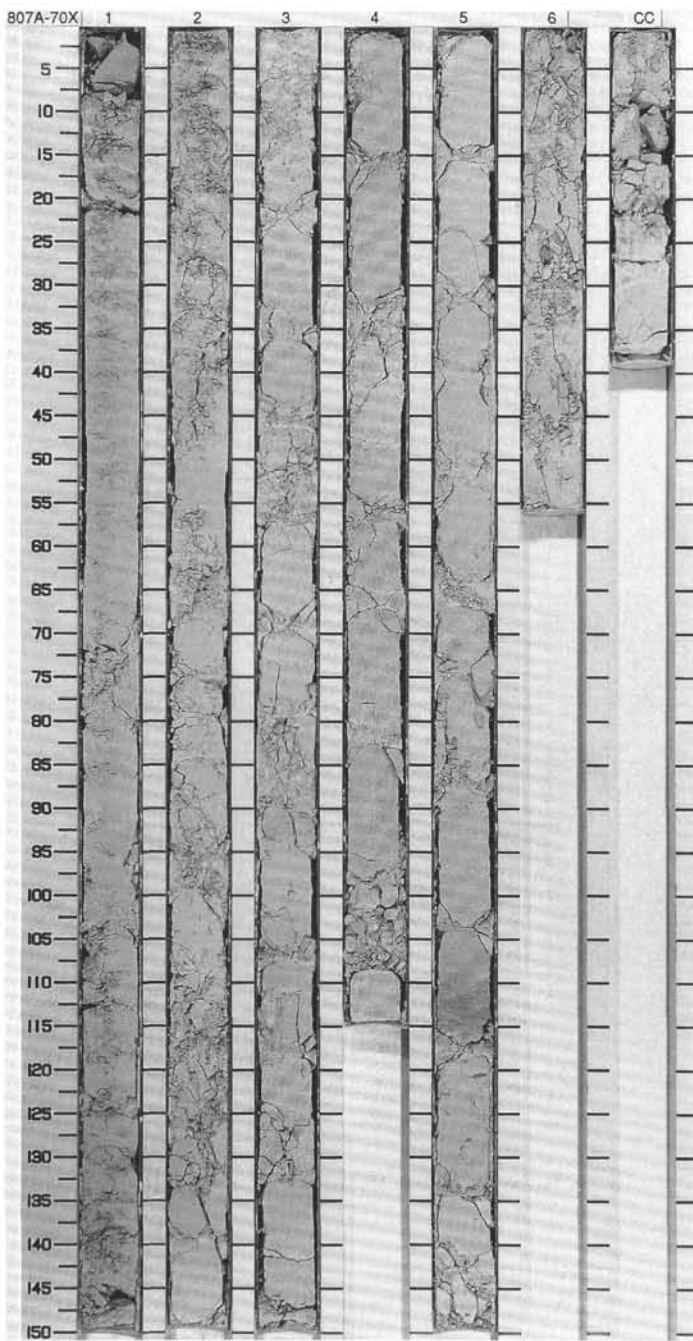
SITE 807 HOLE A CORE 69X CORED INTERVAL 649.6-659.2 mbsf

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										
UPPER OLIIGOCENE	A/G	P22						0.5					<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology. This core contains white (5YR 8 1) to light gray (5YR 7 1), heavily bioturbated NANNOFOSSIL CHALK with FORAMINIFERS. The sediments are relatively homogeneous, except for two cm scale, grayish red purple (5RP 4 2) burrow "halos" present in the Core Catcher.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">1, 54 D</p> <p>TEXTURE:</p> <p>Sand 14 Silt 82 Clay 4</p> <p>COMPOSITION:</p> <p>Diatoms Tr Foraminifers 15 Nannofossils 80 Silicoflagellates 1 Spicules 2</p>
	A/P	NP25					1.0						
	<i>D. ateuuchus - L. elongata</i> C/P						CC						
	<i>Rocella vigilans</i> C-A/P												

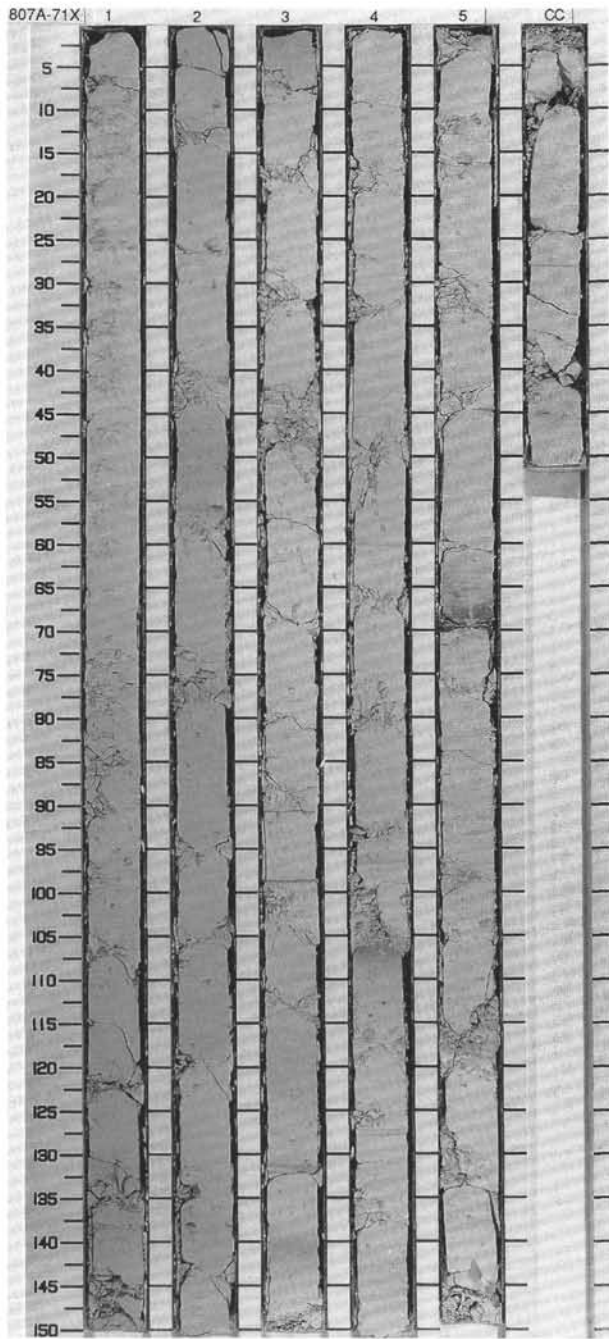


SITE 807 HOLE A CORE 70X CORED INTERVAL 659.2-668.9 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS											
C/G	UPPER OLIGOCENE	P21b - P22				1	0.5 1.0					<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains white (2.5Y 8/0 to 10YR 8/1) NANNOFOSSIL CHALK with FORAMINIFERS. The entire core is moderately to heavily bioturbated with simple mm scale, horizontal burrows. Section 5, 109-116 cm, contains white (2.5Y 8/0) and gray (N5r) chalk, extensively mixed by burrowing.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="padding-left: 40px;">3.77 D</p> <p>TEXTURE:</p> <p>Sand 20 Silt 75 Clay 5</p> <p>COMPOSITION:</p> <p>Diatoms Tr Foraminifers 15 Nannofossils 80 Radiolarians 2 Silicoflagellates Tr Spicules Tr</p>
A/P		NP25?				2						
C/P		<i>Dorcadopyris atuechus</i> - <i>Lynchocanoma elongata</i>				3						
R/P						4						
			● P ₁ 49.3 ● P ₂ 1.86			5						
			● P ₁ 46.7 ● P ₂ 1.91			6						
						CC						
										OG TW		

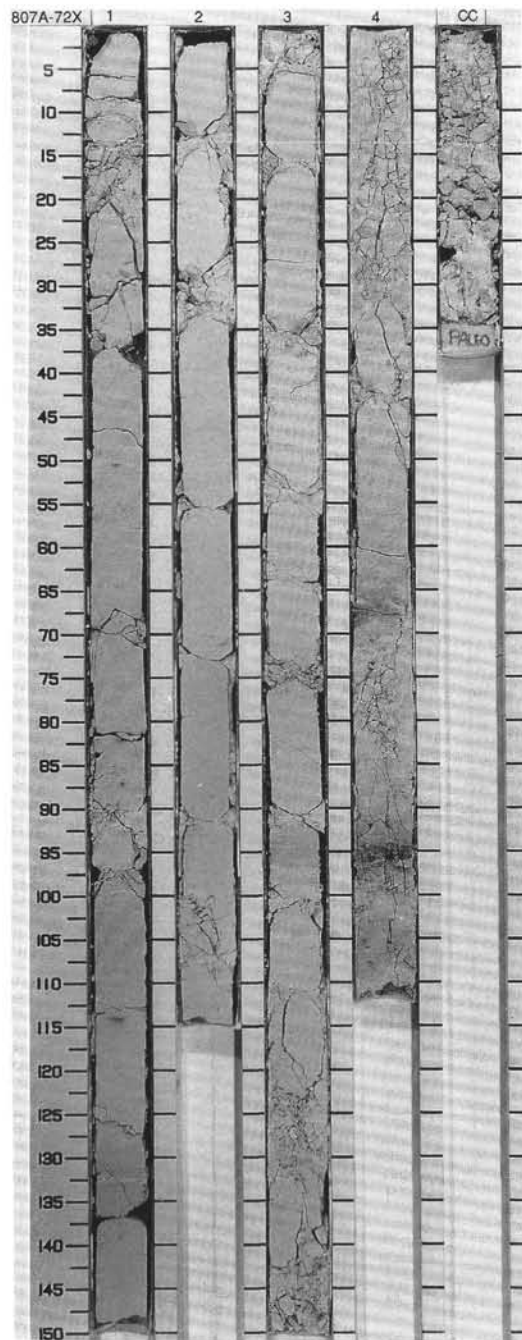


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																	
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																											
UPPER OLIGOCENE													<p>NANNOFOSSIL CHALK</p> <p>Major lithology: This core is predominantly NANNOFOSSIL CHALK. The color is white (7.5YR 8/0) but grades to pale blue (5PB 7.2) in the lower parts of Section 2 and Section 5, and to grayish blue (5BP 5.2) over 5 cm intervals in Sections 3 and 4. Bioturbation is moderate to heavy and dominated by <i>Zoophycos</i> burrows. White and grayish blue (5PB 5.2) mottles and cm scale, pyritized specks are also present. Section 2 and parts of Sections 1, 3 and 4 contain densely spaced white and grayish blue (5PB 5.2) color bands. Single, greenish gray (5GY 6.1) bands are wispy and 2 to 3 mm wide.</p> <p>Minor lithology: NANNOFOSSIL CHALK with ASH is found in Section 5 between 63 and 70 cm. The color grades from light gray (N7) at 63 cm to dark gray (N4) near 70 cm. The layer is moderately bioturbated, including <i>Chrandites</i> burrows.</p> <p>SMEAR SLIDE SUMMARY (%)</p> <table border="1"> <tr> <td></td> <td>3.60</td> <td>5.70</td> </tr> <tr> <td>D</td> <td></td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>5</td> <td>6</td> </tr> <tr> <td>Silt</td> <td>70</td> <td>74</td> </tr> <tr> <td>Clay</td> <td>25</td> <td>20</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Diatoms</td> <td>Tr</td> <td>-</td> </tr> <tr> <td>Foraminifers</td> <td>5</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>94</td> <td>89</td> </tr> <tr> <td>Radiolarians</td> <td>1</td> <td>-</td> </tr> <tr> <td>Spicules</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Volcanic ash</td> <td>Tr</td> <td>10</td> </tr> </table>		3.60	5.70	D		M	Sand	5	6	Silt	70	74	Clay	25	20	Diatoms	Tr	-	Foraminifers	5	Tr	Nannofossils	94	89	Radiolarians	1	-	Spicules	Tr	Tr	Volcanic ash	Tr	10
	3.60	5.70																																												
D		M																																												
Sand	5	6																																												
Silt	70	74																																												
Clay	25	20																																												
Diatoms	Tr	-																																												
Foraminifers	5	Tr																																												
Nannofossils	94	89																																												
Radiolarians	1	-																																												
Spicules	Tr	Tr																																												
Volcanic ash	Tr	10																																												
A/G	P21b - P22						1	0.5																																						
A/P	NP 25						2	1.0																																						
A/P	<i>Dorcadospyrus ateuuchus</i>						3																																							
F-C/P	<i>Rocella vigilans</i>						4																																							
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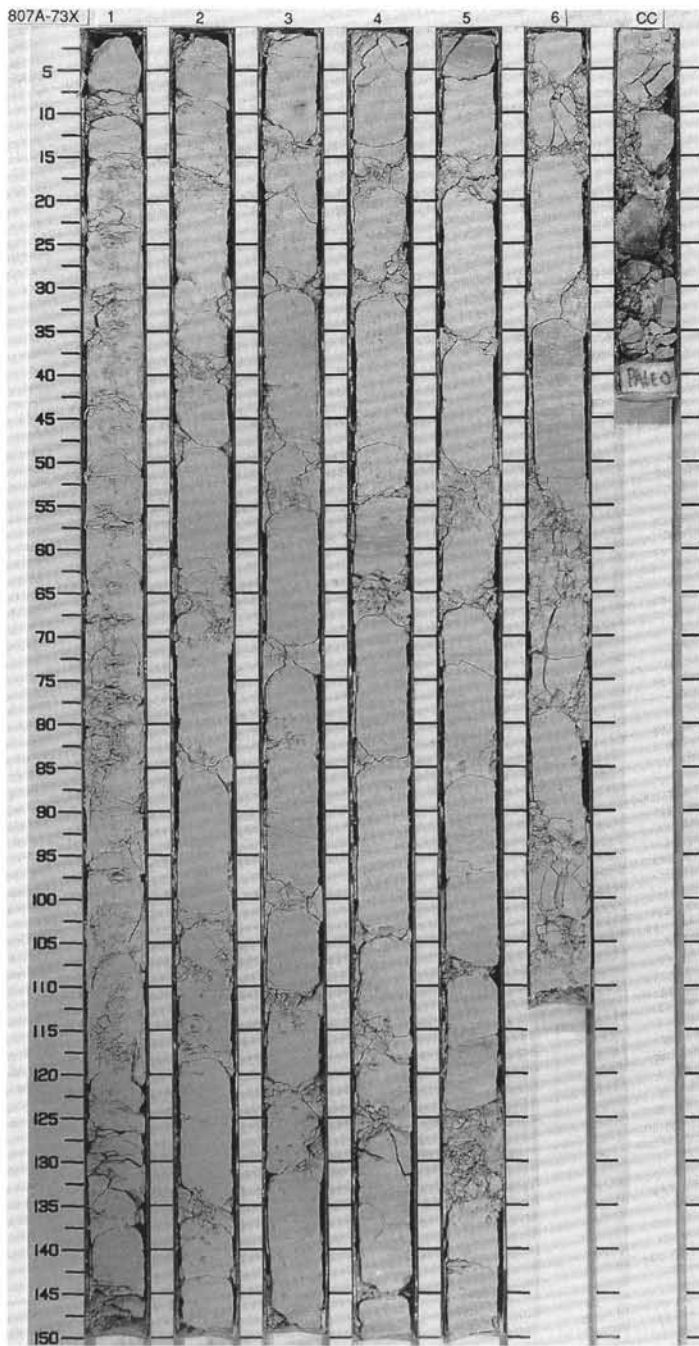


SITE 807 HOLE A CORE 72X CORED INTERVAL 678.2-687.8 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS										
	RADIOLARIANS	DIATOMS										
UPPER OLIGOCENE	P21b - P22	NP24		V-1959 1.80	%CaCO ₃ 89.3							
A/G	P21b - P22	NP24		V-1795 1.50	%CaCO ₃ 83.5							
A				V-1795 1.84	%CaCO ₃ 83.5							
A/P		<i>Dorcadospyrus atuechus</i>		V-1795 1.88	%CaCO ₃ 81.0							
A/M		<i>Rocella vigliani</i>		V-1795 1.88	%CaCO ₃ 81.0							
				V-1830 1.83	%CaCO ₃ 73.9							
				V-2000 1.88	%CaCO ₃ 81.0							
				V-1959 1.80	%CaCO ₃ 89.3							
				V-1795 1.84	%CaCO ₃ 83.5							
				V-1795 1.88	%CaCO ₃ 81.0							
				V-1830 1.83	%CaCO ₃ 73.9							
				V-2000 1.88	%CaCO ₃ 81.0							
				V-1959 1.80	%CaCO ₃ 89.3							
				V-1795 1.84	%CaCO ₃ 83.5							
				V-1795 1.88	%CaCO ₃ 81.0							
				V-1830 1.83	%CaCO ₃ 73.9							
				V-2000 1.88	%CaCO ₃ 81.0							
				V-1959 1.80	%CaCO ₃ 89.3							
				V-1795 1.84	%CaCO ₃ 83.5							
				V-1795 1.88	%CaCO ₃ 81.0							
				V-1830 1.83	%CaCO ₃ 73.9							
				V-2000 1.88	%CaCO ₃ 81.0							
				V-1959 1.80	%CaCO ₃ 89.3							
				V-1795 1.84	%CaCO ₃ 83.5							
				V-1795 1.88	%CaCO ₃ 81.0							
				V-1830 1.83	%CaCO ₃ 73.9							
				V-2000 1.88	%CaCO ₃ 81.0							
				V-1959 1.80	%CaCO ₃ 89.3							
				V-1795 1.84	%CaCO ₃ 83.5							
				V-1795 1.88	%CaCO ₃ 81.0							
				V-1830 1.83	%CaCO ₃ 73.9							
				V-2000 1.88	%CaCO ₃ 81.0							
				V-1959 1.80	%CaCO ₃ 89.3							
				V-1795 1.84	%CaCO ₃ 83.5							
				V-1795 1.88	%CaCO ₃ 81.0							
				V-1830 1.83	%CaCO ₃ 73.9							
				V-2000 1.88	%CaCO ₃ 81.0							
				V-1959 1.80	%CaCO ₃ 89.3							
				V-1795 1.84	%CaCO ₃ 83.5							
				V-1795 1.88	%CaCO ₃ 81.0							
				V-1830 1.83	%CaCO ₃ 73.9							
				V-2000 1.88	%CaCO ₃ 81.0							
				V-1959 1.80	%CaCO ₃ 89.3							
				V-1795 1.84	%CaCO ₃ 83.5							
				V-1795 1.88	%CaCO ₃ 81.0							
				V-1830 1.83	%CaCO ₃ 73.9							
				V-2000 1.88	%CaCO ₃ 81.0							
				V-1959 1.80	%CaCO ₃ 89.3							
				V-1795 1.84	%CaCO ₃ 83.5							
				V-1795 1.88	%CaCO ₃ 81.0							
				V-1830 1.83	%CaCO ₃ 73.9							
				V-2000 1.88	%CaCO ₃ 81.0							
				V-1959 1.80	%CaCO ₃ 89.3							
				V-1795 1.84	%CaCO ₃ 83.5							
				V-1795 1.88	%CaCO ₃ 81.0							
				V-1830 1.83	%CaCO ₃ 73.9							
				V-2000 1.88	%CaCO ₃ 81.0							
				V-1959 1.80	%CaCO ₃ 89.3							
				V-1795 1.84	%CaCO ₃ 83.5							
				V-1795 1.88	%CaCO ₃ 81.0							
				V-1830 1.83	%CaCO ₃ 73.9							
				V-2000 1.88	%CaCO ₃ 81.0							

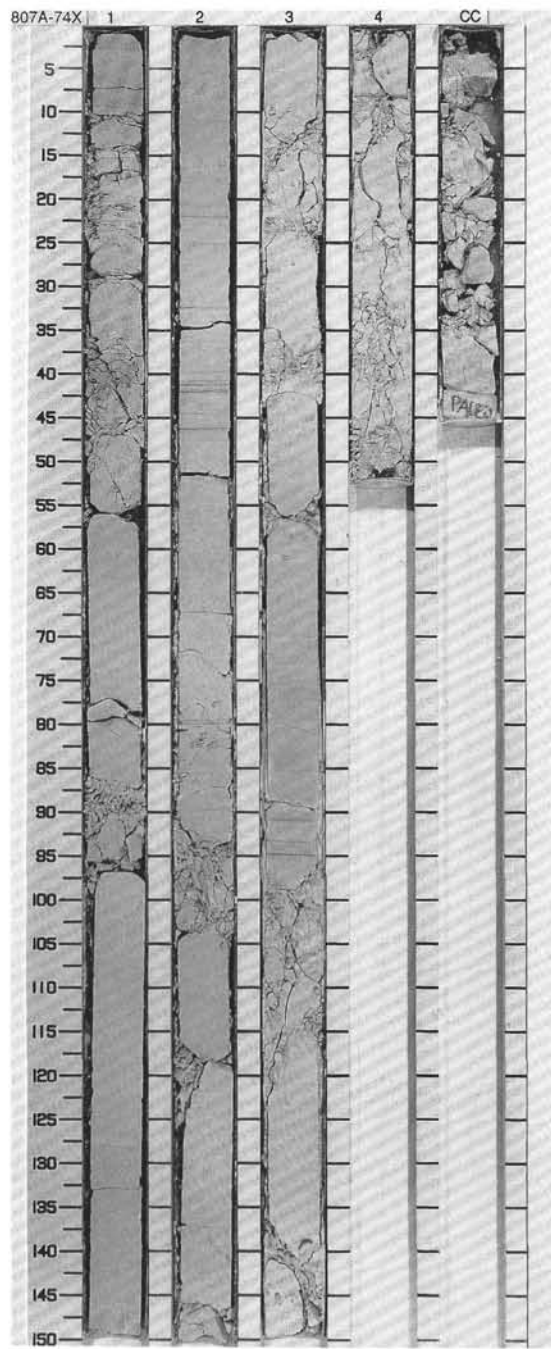


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
UPPER OLIGOCENE													
C/M	P21b - P22												
A/M	NP23 - NP24												
F-C/P	<i>Rocella virgians</i>												
				V-2074 87.3	V-1978 102	V-1778 149.7	V-2074 186	V-1842 229.9	V-1842 271.8	V-2074 306.5	V-2074 393.5	V-1842 432.9	V-2074 521.8
				%CaCO ₃ = 87.3	%CaCO ₃ = 94.0	%CaCO ₃ = 91.0	%CaCO ₃ = 91.0	%CaCO ₃ = 93.5	%CaCO ₃ = 94.3	%CaCO ₃ = 94.3	%CaCO ₃ = 94.3	%CaCO ₃ = 94.3	%CaCO ₃ = 94.3



SITE 807 HOLE A CORE 74X CORED INTERVAL 697.5-707.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
LOWER OLILOCENE											
A/M	P21a		$\rho = 47.8$			0.5					<p>NANNOFOSSIL CHALK with FORAMINIFERS and FORAMINIFER NANNOFOSSIL CHALK.</p> <p>Major lithology. This core contains NANNOFOSSIL CHALK with FORAMINIFERS and FORAMINIFER NANNOFOSSIL CHALK. The sediment is white (2.5Y 8/0), with 5 to 15 cm thick intervals grading into light gray (2.5Y 7/0) in Section 2. The base of a light gray interval is often sharp. Moderate to heavy bioturbation is indicated by abundant mottling and sub-horizontal burrows. Thin (mm size), gray (N6), wispy color bands with flaser structures are common in conjunction with microstylolites.</p> <p>SMEAR SLIDE SUMMARY (%)</p> <p>2.67 D</p> <p>TEXTURE:</p> <p>Sand 30 Silt 65 Clay 5</p> <p>COMPOSITION:</p> <p>Diatoms Tr Foraminifers 25 Nannofossils 70 Quartz Tr Radiolarians Tr Silicoflagellates Tr</p>
A/M	NP23		$\rho = 1.88$			1.0					
C/P	<i>Dorcadospyris steuchus</i>		$V = 202$			2.0					
R/P	?		$\rho = 1.84$			3.0					
			$V = 49.8$			4.0					
						CC					



TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
LOWER OLIIGOCENE													
A/M	P21a												
A/M	NP23												
F-C/P	?												
				V-2015 95.5-100.0 ●%CaCO ₃ 95.5			1						
				V-1771 90.5-95.0 ●%CaCO ₃ 94.9			2						
				V-2023 87.0-91.0 ●%CaCO ₃ 89.1			3						
				V-2015 81.0-85.0 ●%CaCO ₃ 87.7			4						
							5						

NANNOFOSSIL CHALK with FORAMINIFERS AND FORAMINIFER NANNOFOSSIL CHALK

Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL CHALK with FORAMINIFERS and FORAMINIFER NANNOFOSSIL CHALK, which becomes more uniform in appearance downcore. Gray (N6) stylolites and distinct, mm thick, greenish gray (5G 6/1) color bands are common in Sections 1 and 2, whereas light gray (N7) intervals of flaser structures with microstylolites are common in Sections 1 and 2, and present in Section 3. Sections 1 through 3 are slightly to moderately bioturbated; Sections 4 through Core Catcher are moderately to heavily bioturbated.

SMEAR SLIDE SUMMARY (%):

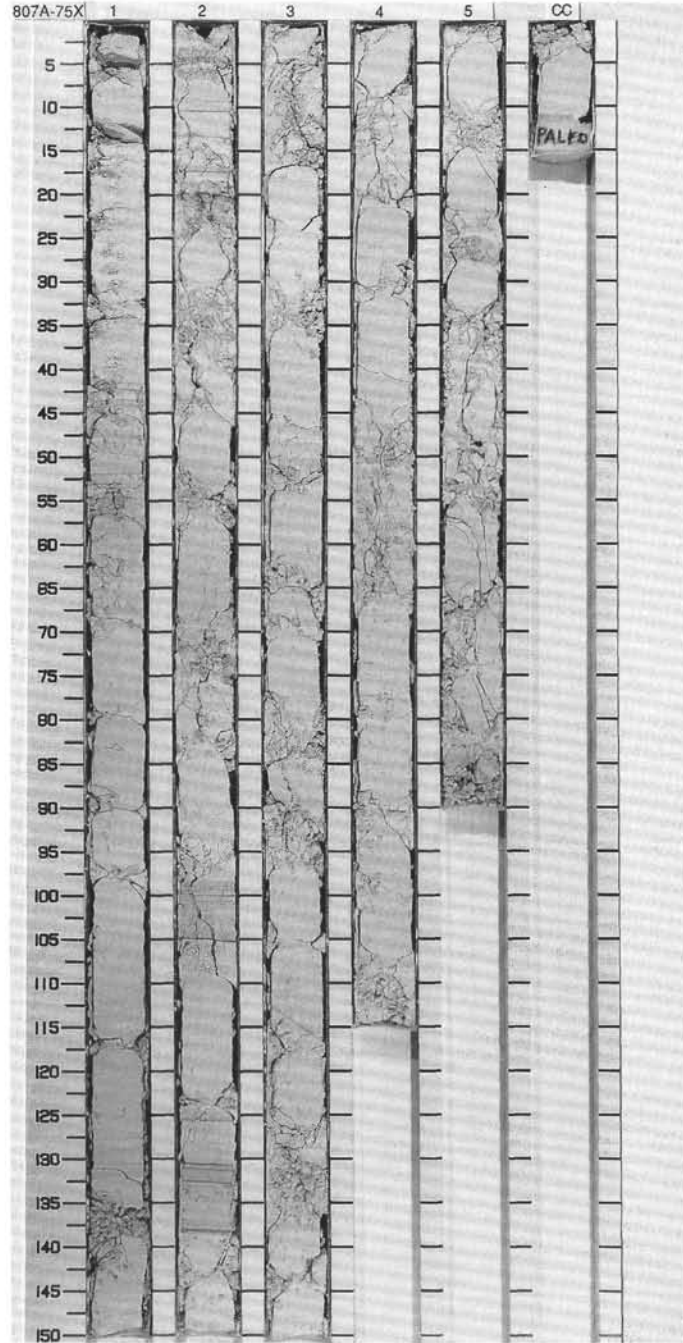
	2.66
D	

TEXTURE:

Sand	30
Silt	65
Clay	5

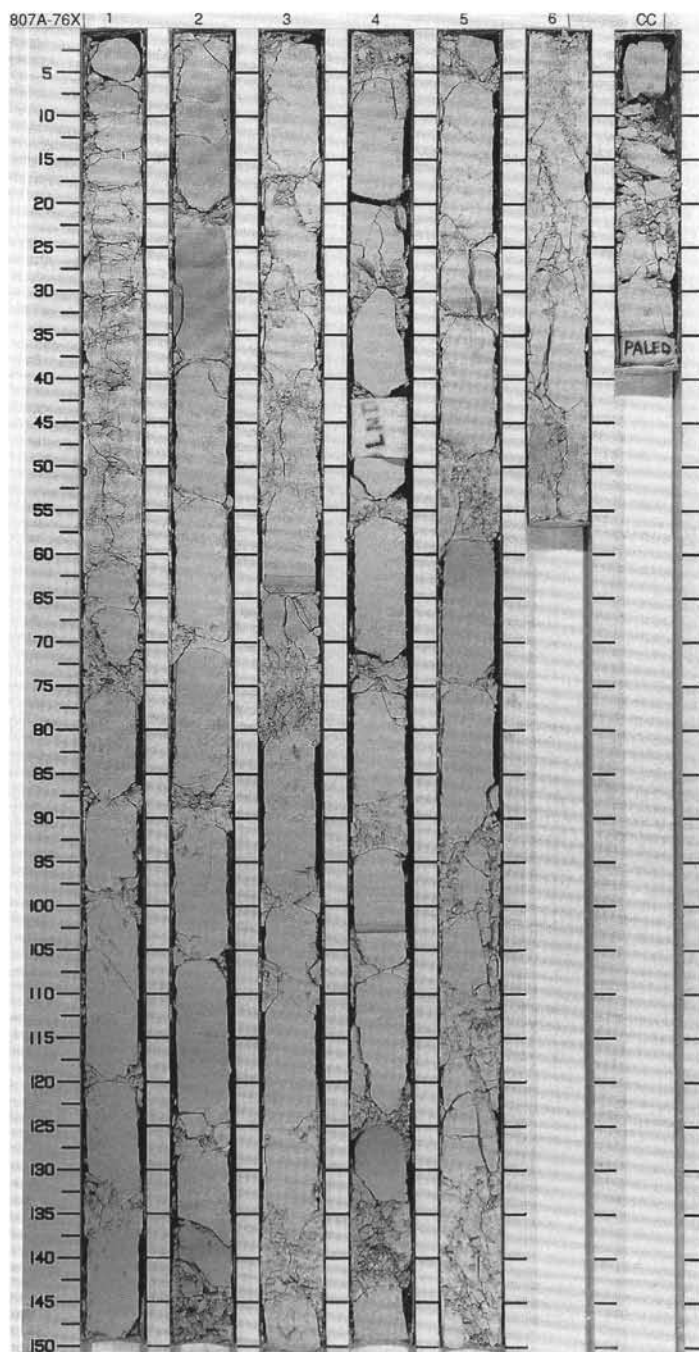
COMPOSITION:

Diatoms	Tr
Foraminifers	25
Nannofossils	70
Quartz	Tr
Radiolarians	Tr
Silicoflagellates	Tr



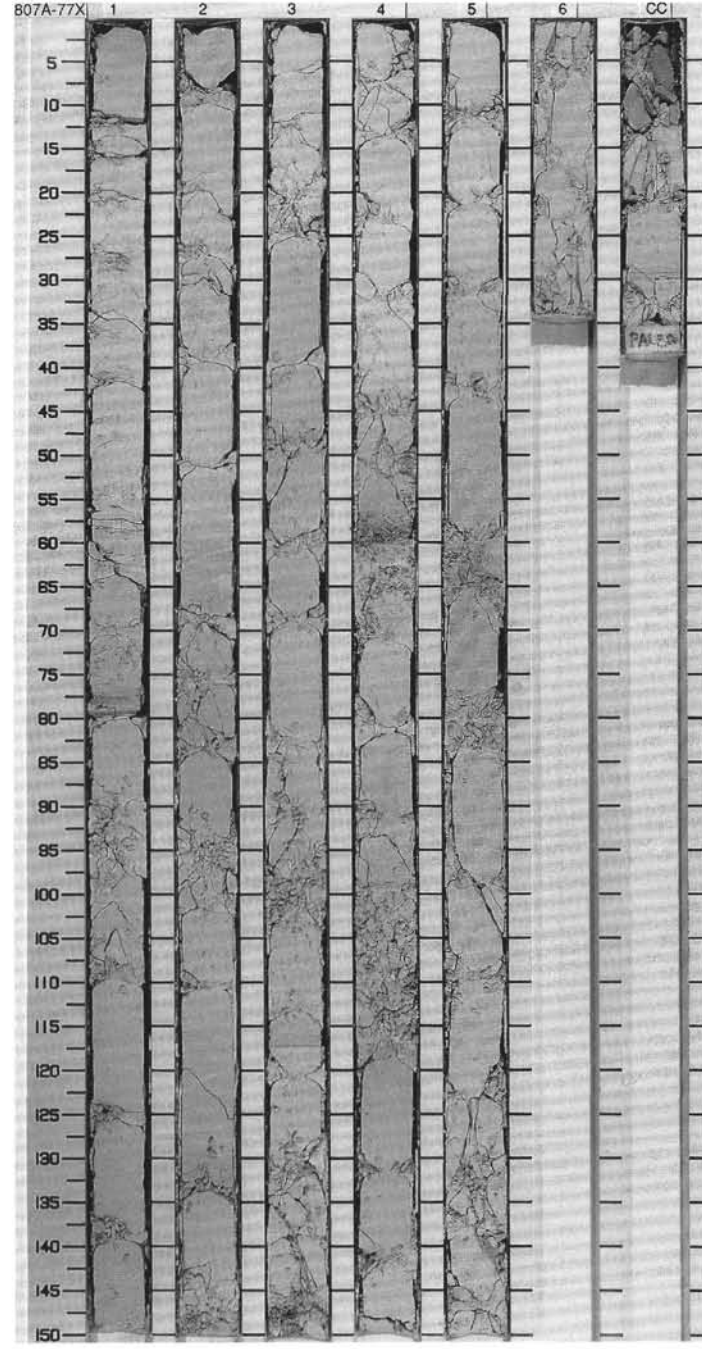
SITE 807 HOLE A CORE 76X CORED INTERVAL 716.9-726.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETIC	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
LOWER OLIGOCENE											
A/M	P21a		0.49.3 P1.87 V-2086 0.47.7 P1.90	0.49.6 P1.86 V-215.6 0.49.6 P1.86	1	0.5 1.0					NANNOFOSSIL CHALK with FORAMINIFERS
A/M	NP23		0.46.8 P1.91 V-2086 0.50.0 P1.86	0.46.8 P1.91 V-2086 0.50.0 P1.86	2						Major lithology: This core contains NANNOFOSSIL CHALK with FORAMINIFERS. The color grades between white (2.5Y 8/0 and 5Y 8/1), light greenish gray (5G 7/1), light gray (N7 and 5Y 7/1) and grayish blue (5PB 5/2), commonly with an overall wispy appearance. The sediment is slightly to heavily boturbated throughout. Millimeter-scale, predominantly horizontal, and apparently flattened burrows predominate. Several 3 cm thick intervals of greenish gray (5G 6/1), mm scale color bands enclose zones of weakly developed flaser structures with possible microstylolites. White (2.5Y 8/0), gray (N 5/1), and grayish blue (5PB 5/2) color bands also are present throughout the core.
A/P	<i>Dorcadospyris atueuchus</i>		0.49.3 P1.87 V-2086 0.47.7 P1.90	0.49.6 P1.86 V-215.6 0.49.6 P1.86	3						SMEAR SLIDE SUMMARY (%)
C/P	<i>Rocella virgilians</i>		0.49.3 P1.87 V-2086 0.47.7 P1.90	0.49.6 P1.86 V-215.6 0.49.6 P1.86	4						Sand 20 Silt 75 Clay 5
			0.49.3 P1.87 V-2086 0.47.7 P1.90	0.49.6 P1.86 V-215.6 0.49.6 P1.86	5						TEXTURE
			0.49.3 P1.87 V-2086 0.47.7 P1.90	0.49.6 P1.86 V-215.6 0.49.6 P1.86	6						* Sand 20 Silt 75 Clay 5
			0.49.3 P1.87 V-2086 0.47.7 P1.90	0.49.6 P1.86 V-215.6 0.49.6 P1.86	CC						COMPOSITION
			0.49.3 P1.87 V-2086 0.47.7 P1.90	0.49.6 P1.86 V-215.6 0.49.6 P1.86							Diatoms Tr Foraminifers 15 Nannofossils 80 Quartz Tr Radiolarians Tr Silicoflagellates Tr



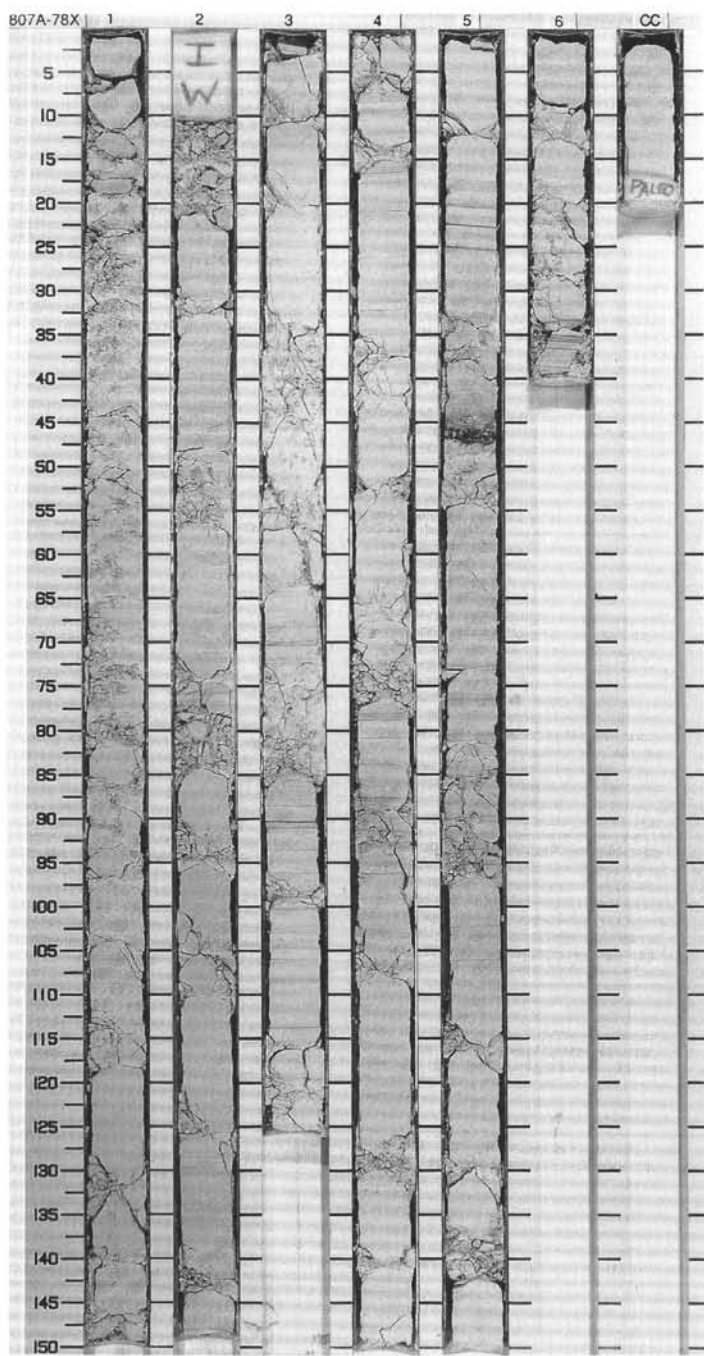
SITE 807 HOLE A CORE 77X CORED INTERVAL 726.5-736.2 mbsf

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 OLILOCENE																																																		
A/M	P21a							1	0.5					<p>NANNOFOSSIL CHALK with FORAMINIFERS AND FORAMINIFER NANNOFOSSIL CHALK</p> <p>Major lithology: This core contains NANNOFOSSIL CHALK with FORAMINIFERS and FORAMINIFER NANNOFOSSIL CHALK. The color grades between white (2.5Y 8.0, 5Y 8.1, and 7.5YR 8.0) and light gray (7.5YR 7.0). The sediment is quite uniform and moderately to heavily bioturbated, predominantly with subhorizontal, mm scale, simple burrows. Discrete cm scale, horizontal burrows also are present in Section 1. Flaser structures with microstylolites are seen in Sections 1 and 3. Millimeter-scale, faint color bands occur in Section 5 and throughout Section 6. Section 4, 56-61 cm, contains a heavily bioturbated, gray (2.5Y 6.0) layer, which contains about 5% volcanic ash.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr><td></td><td>3.82</td><td>4.60</td></tr> <tr><td>D</td><td></td><td>M</td></tr> </table> <p>TEXTURE:</p> <table border="1"> <tr><td>Sand</td><td>30</td><td>10</td></tr> <tr><td>Silt</td><td>65</td><td>70</td></tr> <tr><td>Clay</td><td>5</td><td>20</td></tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr><td>Diatoms</td><td>Tr</td><td>--</td></tr> <tr><td>Foraminifers</td><td>25</td><td>7</td></tr> <tr><td>Nannofossils</td><td>70</td><td>86</td></tr> <tr><td>Quartz</td><td>Tr</td><td>Tr</td></tr> <tr><td>Radiolarians</td><td>Tr</td><td>2</td></tr> <tr><td>Silicoflagellates</td><td>Tr</td><td>--</td></tr> <tr><td>Volcanic ash</td><td>--</td><td>5</td></tr> </table>		3.82	4.60	D		M	Sand	30	10	Silt	65	70	Clay	5	20	Diatoms	Tr	--	Foraminifers	25	7	Nannofossils	70	86	Quartz	Tr	Tr	Radiolarians	Tr	2	Silicoflagellates	Tr	--	Volcanic ash	--	5
	3.82	4.60																																																
D		M																																																
Sand	30	10																																																
Silt	65	70																																																
Clay	5	20																																																
Diatoms	Tr	--																																																
Foraminifers	25	7																																																
Nannofossils	70	86																																																
Quartz	Tr	Tr																																																
Radiolarians	Tr	2																																																
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A/M	NP23							2	1.0																																									
C-A/P	<i>Rocella viginans</i>							3																																										
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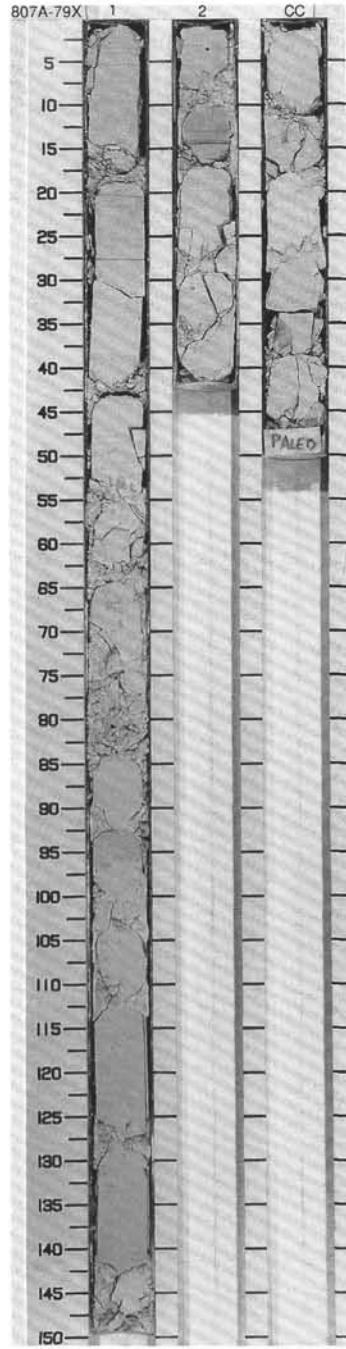
SITE 807 HOLE A CORE 78X CORED INTERVAL 736.2-745.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGIC	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
LOWER OLIGOCENE											
A/M	P21a		V=1803 0.51-7 1.83	%CaCO ₃ 93.1	1	0.5					NANNOFOSSIL CHALK with FORAMINIFERS and FORAMINIFER NANNOFOSSIL CHALK
A/M	NP23		V=1978 0.49-5 1.83	%CaCO ₃ 93.4	2	1.0					Major lithology. This core contains bioturbated NANNOFOSSIL CHALK with FORAMINIFERS and FORAMINIFER NANNOFOSSIL CHALK in equal percentages. The chalk is predominantly white (2.5Y 8/0), with minor pale pink (5RP 8/2) intervals. The chalk has two styles of color banding; 5 to 15 cm thick, pale pink bands and 1 to 2 mm thick, dark gray (2.5Y 4) bands that exhibit flaser structures.
A/P	<i>Dorcadospyris atreuchus</i>		V=2001 0.51-7 1.83	%CaCO ₃ 93.1	3						Minor lithology. Section 5, 45-47 cm, contains a heavily bioturbated dark gray (2.5Y 4/0) NANNOFOSSIL CHALK with ASH.
A/M-G	<i>Rocella virgians</i>		V=2003 0.51-7 1.83	%CaCO ₃ 92.5	4						SMEAR SLIDE SUMMARY (%): D 3.75 M 5.45
					5						TEXTURE: Sand 10 10 Silt 60 60 Clay 30 30
					6						COMPOSITION: Accessory minerals -- 5 Diatoms Tr -- Foraminifers 25 -- Nannofossils 73 60 Opauques -- 15 Radiolarians 1 8 Siliceous fragments 1 -- Siliceous sponge spicules -- Tr Volcanic ash Tr 12



SITE 807 HOLE A CORE 79X CORED INTERVAL 745.5-755.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETIC	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
LOWER OLIGOCENE													
	A/M	P21a					1	0.5					<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL CHALK with FORAMINIFERS. Several 10 cm thick, pale pink (5RP 8/2) to pale purple (5P 6/2) intervals are present and contain numerous distinct, sharp, thin (<1 mm) white color bands. Heavy bioturbation is indicated by numerous trace fossils. These structures appear to be compacted. A Zoophycos trace is present in Section 1, 98 cm. There are a few gray, wavy and braided color bands that may be flaser structures.</p> <p>SMEAR SLIDE SUMMARY (%)</p> <p>Z: 20 D</p> <p>TEXTURE:</p> <p>Sand: 10 Silt: 75 Clay: 15</p> <p>COMPOSITION:</p> <p>Diatoms: Tr Foraminifers: 20 Nannofossils: 79 Siliceous fragments: 1</p>
	A/M	NP23					2	1.0					
	A/M-G	<i>Rocella vigilans</i>					CC						

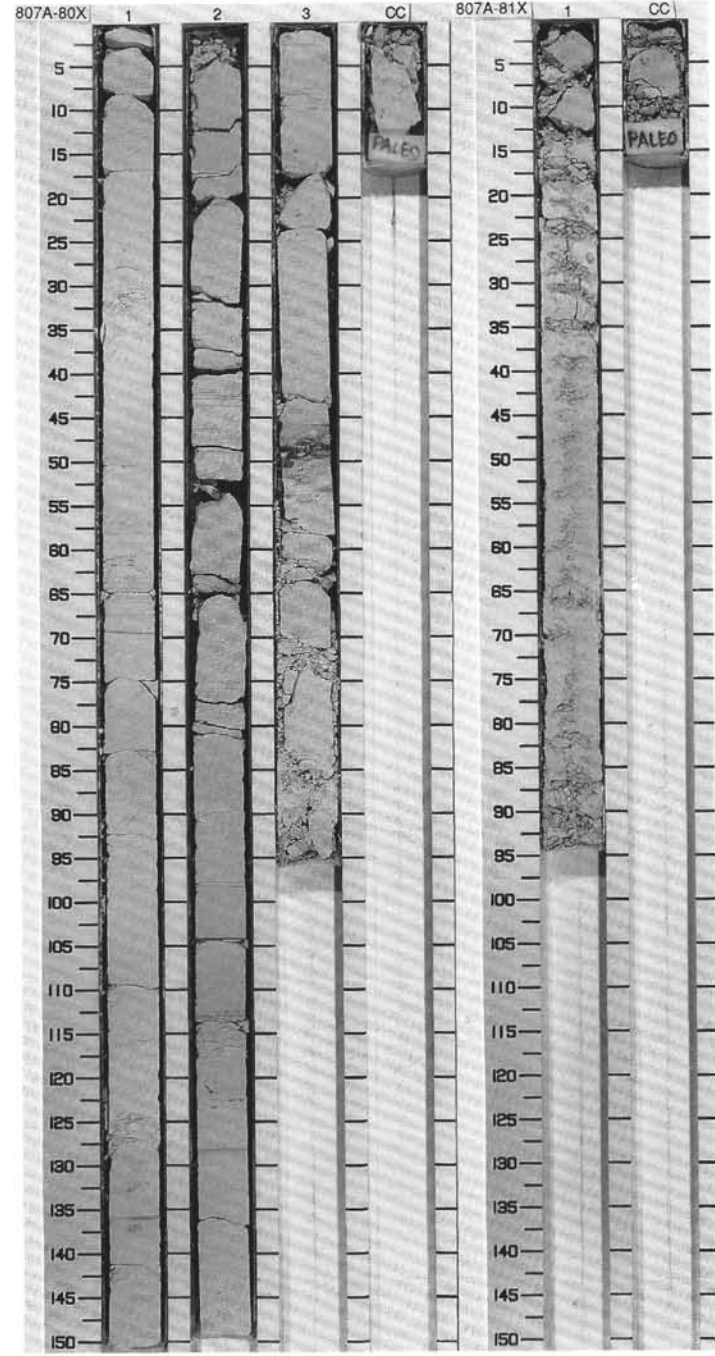


SITE 807 HOLE A CORE 80X CORED INTERVAL 755.2-764.9 mbsf

TIME-ROCK UNIT			BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																	
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																												
LOWER OLIGOCENE	P20 - P21a	NP23	A/P	Dorcadospiris ateuichus	C-A/M-G	Rocella vigilans								<p>NANNOFOSSIL CHALK</p> <p>Major lithology. This core contains white (2.5Y 8.0) NANNOFOSSIL CHALK. Heavy bioturbation is evident from numerous trace fossils. A few thin (<1 mm) horizontal, wavy, braided color bands are present. Several pale pink (5RP 6/2) zones, with thin (<1 mm) white, distinct, horizontal bands are also present.</p> <p>Minor lithology. Section 3, 48-50 cm contains a heavily bioturbated, dark gray (2.5Y 4/0) NANNOFOSSIL CHALK with ASH.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table style="margin-left: 20px;"> <tr><td>Sand</td><td>10</td></tr> <tr><td>Silt</td><td>55</td></tr> <tr><td>Clay</td><td>35</td></tr> </table> <p>TEXTURE:</p> <table style="margin-left: 20px;"> <tr><td>Diatoms</td><td>Tr</td></tr> <tr><td>Foraminifers</td><td>4</td></tr> <tr><td>Glass</td><td>20</td></tr> <tr><td>Nannofossils</td><td>66</td></tr> <tr><td>Opales</td><td>8</td></tr> <tr><td>Siliceous fragments</td><td>2</td></tr> </table>	Sand	10	Silt	55	Clay	35	Diatoms	Tr	Foraminifers	4	Glass	20	Nannofossils	66	Opales	8	Siliceous fragments	2
Sand	10																															
Silt	55																															
Clay	35																															
Diatoms	Tr																															
Foraminifers	4																															
Glass	20																															
Nannofossils	66																															
Opales	8																															
Siliceous fragments	2																															
A/M							V-1916 51.6 P-1181 W-1917 52.0 P-1182 V-1707 52.9 P-1183 W-54.0	•%CaCO ₃ -91.4	W	0.5 1.0																						

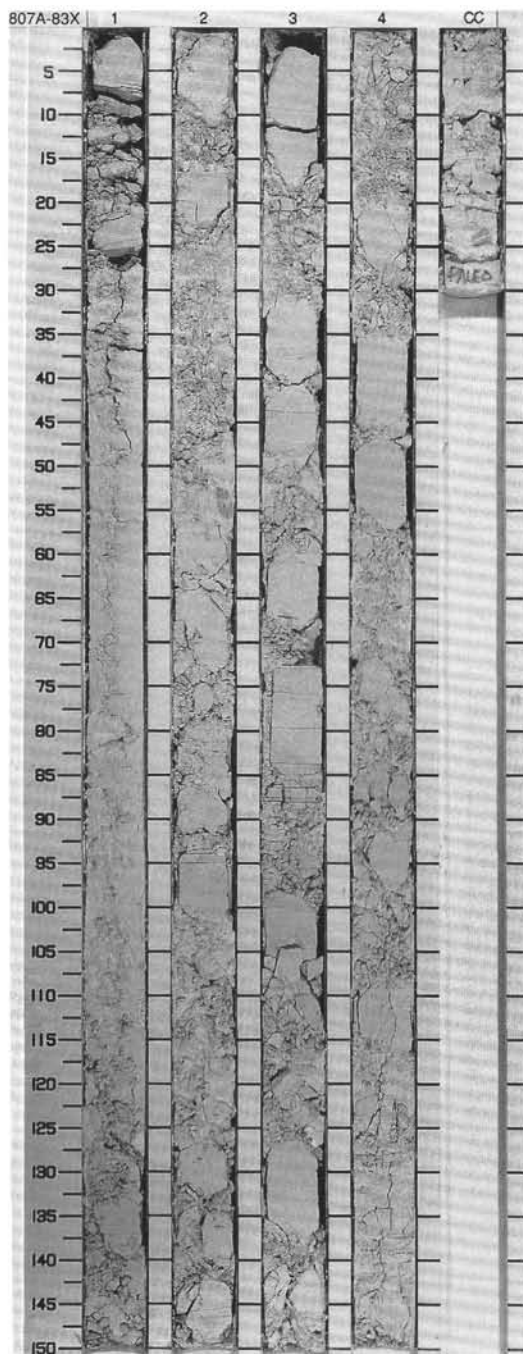
SITE 807 HOLE A CORE 81X CORED INTERVAL 764.9-774.5 mbsf

TIME-ROCK UNIT			BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS											
LOWER OLIGOCENE	P20 - P21a	A/M	A											<p>NANNOFOSSIL CHALK</p> <p>Major lithology. This core contains white NANNOFOSSIL CHALK. Heavy bioturbation is indicated by numerous mottles and trace fossils. The core is highly fractured by drilling and contains a large amount of drilling breccia.</p>	
		NP23							1	0.5					



SITE 807 HOLE A CORE 83X CORED INTERVAL 784.2-793.9 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																									
LOWER OLILOCENE																													
A/M	P19 - P20							1	0.5		X		<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology. This core contains white (2.5Y 8.0) to pale pink (5RP 8.2) NANNOFOSSIL CHALK with FORAMINIFERS. Abundant bioturbation can be observed as trace fossils. Ultra-thin dark gray (2.5Y 4.0) bands are evident throughout the core and fracturing occurs readily along them (possible microstylolites).</p> <p>SMEAR SLIDE SUMMARY (%)</p> <table border="0"> <tr><td>Sand</td><td>11</td></tr> <tr><td>Silt</td><td>49</td></tr> <tr><td>Clay</td><td>40</td></tr> </table> <p>TEXTURE:</p> <p>COMPOSITION</p> <table border="0"> <tr><td>Accessory minerals</td><td>2</td></tr> <tr><td>Diatoms</td><td>Tr</td></tr> <tr><td>Foraminifers</td><td>15</td></tr> <tr><td>Nannofossils</td><td>80</td></tr> <tr><td>Sticeous fragments</td><td>3</td></tr> </table>	Sand	11	Silt	49	Clay	40	Accessory minerals	2	Diatoms	Tr	Foraminifers	15	Nannofossils	80	Sticeous fragments	3
Sand	11																												
Silt	49																												
Clay	40																												
Accessory minerals	2																												
Diatoms	Tr																												
Foraminifers	15																												
Nannofossils	80																												
Sticeous fragments	3																												
A/P	NP23							1	1.0		X																		
C-A/P-M	?							2			X																		
								3			X																		
								4			X																		
								CC			X																		
											X																		
											X																		
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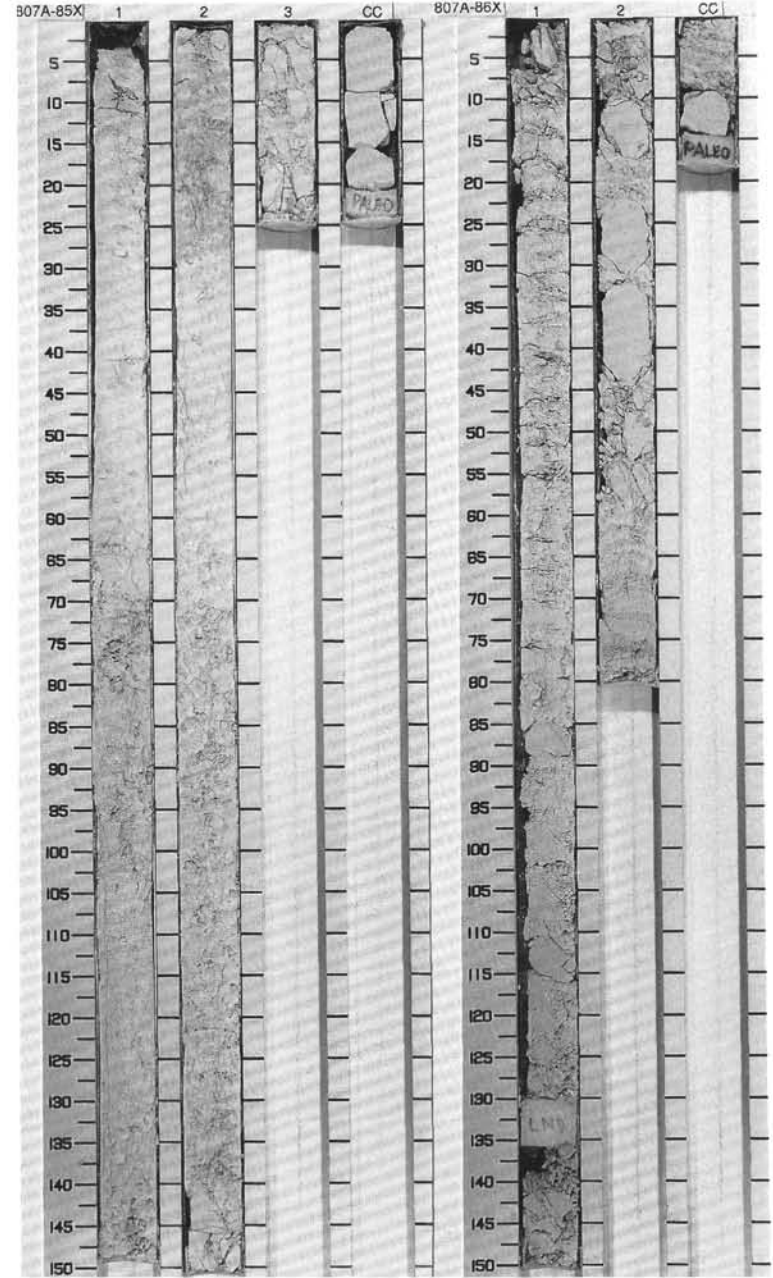


SITE 807 HOLE A CORE 85X CORED INTERVAL 803.6-813.2 mbsf

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 OLIGOCENE	A/G	P19						1	0.5					<p>NANNOFOSSIL CHALK-OOZE</p> <p>Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL CHALK-OOZE. The entire core consists of highly fragmented drilling biscuits and breccia in an ooze matrix. A few signs of bioturbation are visible, such as <i>Zoophycos</i> trace fossils (Section 1), and faint mottles and pyritic specks. Fine-scale, dark gray (2.5Y 4/0), straight and braided bands are observed in Section 2. Both Sections 1 and 2 contain several mm thick layers of pyrite.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">2.70 D</p> <p>TEXTURE:</p> <p>Sand 5 Silt 60 Clay 3</p> <p>COMPOSITION:</p> <p>Foraminifers 8 Nannofossils 92</p>
	A/M	NP23					2	1.0						
	A/P	<i>Theocyrtis tuberosa</i>						3						
	A/P-M	?					CC							

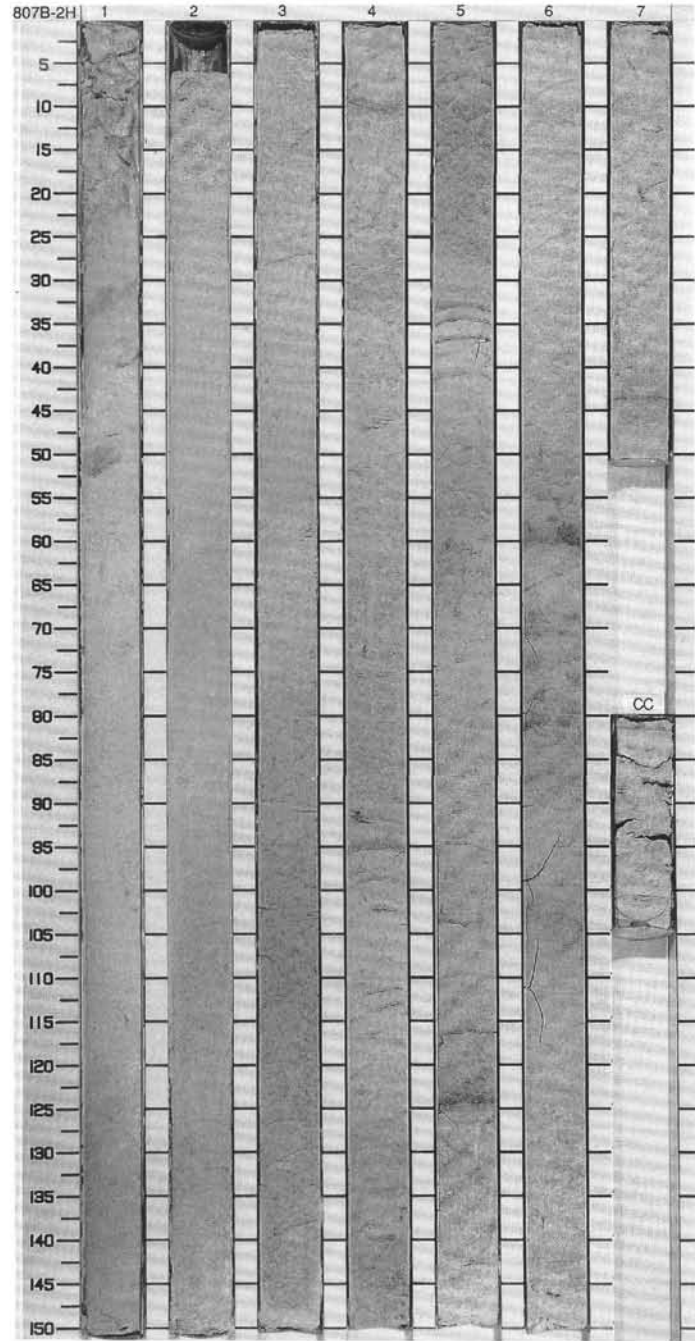
SITE 807 HOLE A CORE 86X CORED INTERVAL 813.2-822.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
LOWER OLIGOCENE	A/M	P19						1	0.5					<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL CHALK with FORAMINIFERS. Sections 2 and 3 grade to pale blue (5B 8/2) at their bottoms. Traces of heavy bioturbation, such as faint mottles are seen in intact biscuits. Drilling disturbance has produced highly fragmented biscuits in an ooze matrix.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">2.13 D</p> <p>TEXTURE:</p> <p>Sand 11 Silt 55 Clay 34</p> <p>COMPOSITION:</p> <p>Accessory minerals 2 Foraminifers 15 Nannofossils 80 Radiolarians 1 Siliceous fragments 2</p>
	A/M	NP23						2	1.0					
	A/P	<i>Theocyrtis tuberosa</i>						CC						
	C-A/M	<i>Coscinodiscus excavatus</i>												

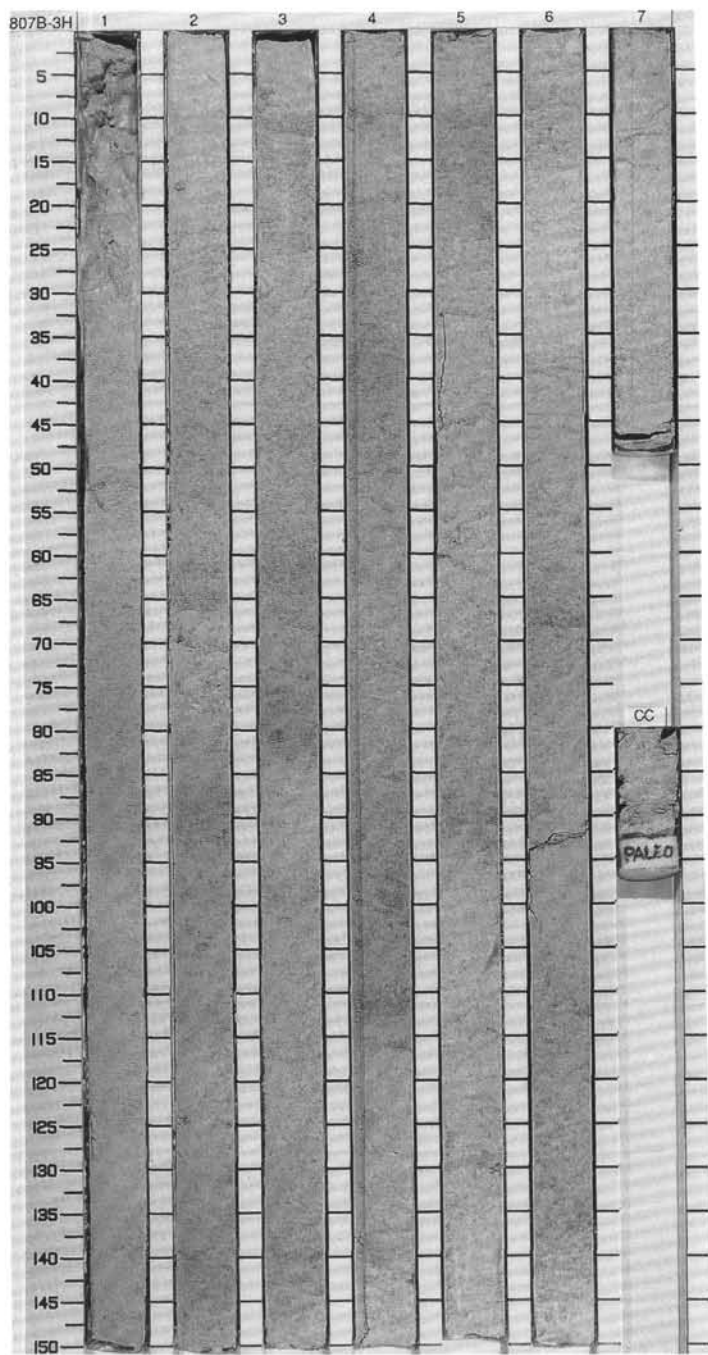


SITE 807 HOLE B CORE 2H CORED INTERVAL 3.1-12.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONES										
PLEISTOCENE														
A/G	N22													
A/G	NN19													
A/P	<i>Anthocyrotidium angulare</i> - <i>Buccinosphaera invaginata</i>													
R-F/M	?													
R	N (Brunhes)(inferred, not oriented)				NORMAL									
	V-1579 69.6 1.33	V-1590 67.5 1.37	V-1588 70.0 1.34	V-1575 74.0 1.33	V-1579 70.2 1.32									
CC														

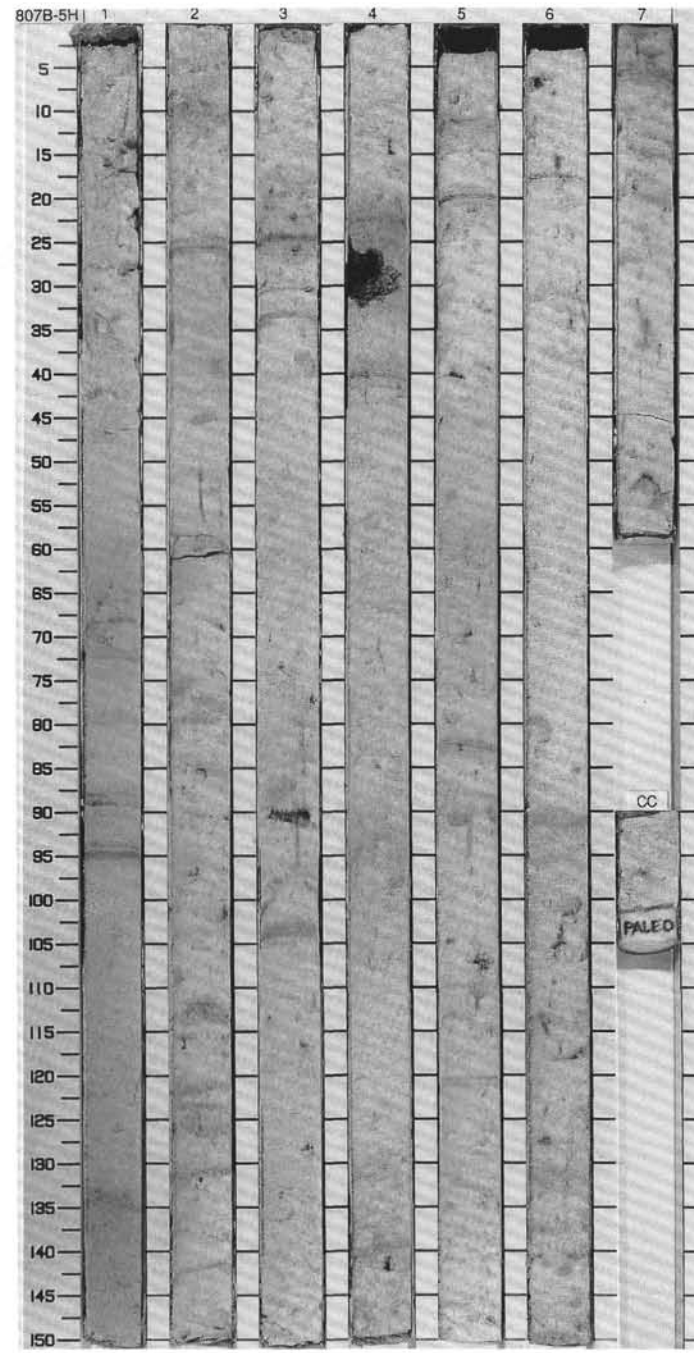


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
PLEISTOCENE													
A/G	N2.2			R ?				0.5					<p>FORAMINIFER NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS.</p> <p>Major lithology: This core contains interbedded FORAMINIFER NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS. The color grades from light gray (N7) to white (2.5Y 8/0). Diffuse intervals of gray (N6) with a slight purplish tint are observed. Slight bioturbation is documented by grayish blue (5PB 5/2), pyrite-filled burrows and minor light gray (2.5Y 7/1) and gray (N6) mottling. Diffuse light greenish gray (5G 7/10) color bands are evident in Sections 1, 2 and 6.</p> <p>SMEAR SLIDE SUMMARY (%)</p> <p style="margin-left: 40px;">2.75 D</p> <p>TEXTURE</p> <p>Sand 25 Silt 70 Clay 5</p> <p>COMPOSITION:</p> <p>Foraminifers 25 Nannofossils 70 Quartz Tr Radiolarians 2 Silicoflagellates Tr</p>
A/M	NN19			N (Jaramillo)	V-1583 0.59-1.154			1.0					
R/P	?			R	V-1586 0.568-1.56								
R/P	?			R	V-1589 0.57-1.56								
				R (Matuyama)	V-1601 0.57-1.52								
				N (Jaramillo)	V-1583 0.59-1.154								
				R	V-1586 0.568-1.56								
				R	V-1594 0.57-1.56								
				R	V-1601 0.57-1.52								
				N (Jaramillo)	V-1583 0.59-1.154								
				R	V-1586 0.568-1.56								
				R	V-1594 0.57-1.56								
				R	V-1601 0.57-1.52								



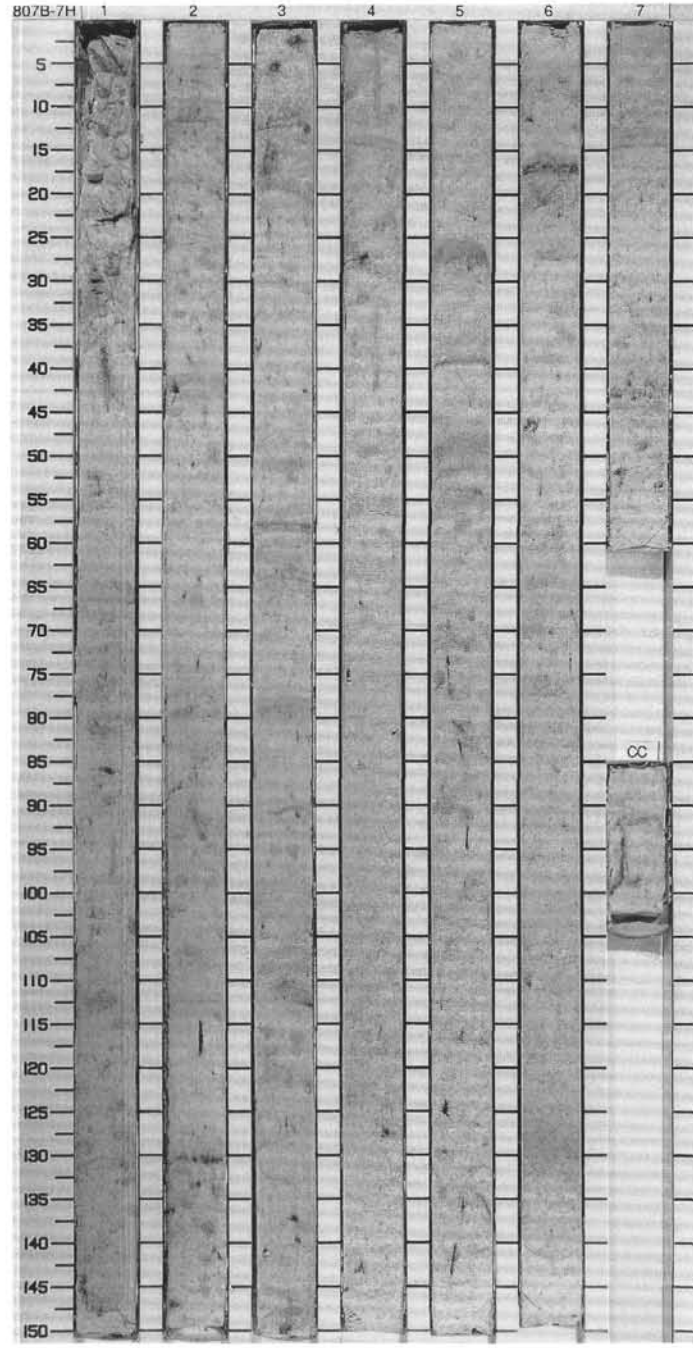
SITE 807 HOLE B CORE 5H CORED INTERVAL 31.6-41.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
UPPER PLIOCENE													
A/G	N21				V-1579 0.67.3 0.1.58			0.5 1.0					FORAMINIFER NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS
A/M	NN18				V-1579 0.66.5 0.1.58			2					Major lithology: This core contains white (2.5Y 8/0) interbedded FORAMINIFER NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS. Bioturbation is slight to moderate in Sections 1 through 5, and moderate to heavy in Sections 6 through Core Catcher. Bioturbation is expressed as both cm scale light gray (2.5Y 7/2) mottling and cm scale dark gray (N5) pyrite-filled burrows. Light greenish gray (5G 7/1), light gray (N7), pale purple (5P 6/2), and grayish blue (5PB 5/2) color banding is present to abundant core.
					V-1565 0.66.9 0.1.57			3					SMEAR SLIDE SUMMARY (%): 2.92 D
					V-1579 0.67.9 0.1.58			4					TEXTURE: Sand 45 Silt 50 Clay 5
					V-1537 0.67.1 0.1.58			5					COMPOSITION: Foraminifers 38 Nannofossils 57 Quartz Tr Radiolarians 2 Silicoflagellates Tr
					V-1572 0.68.1 0.1.57			6					
								7					



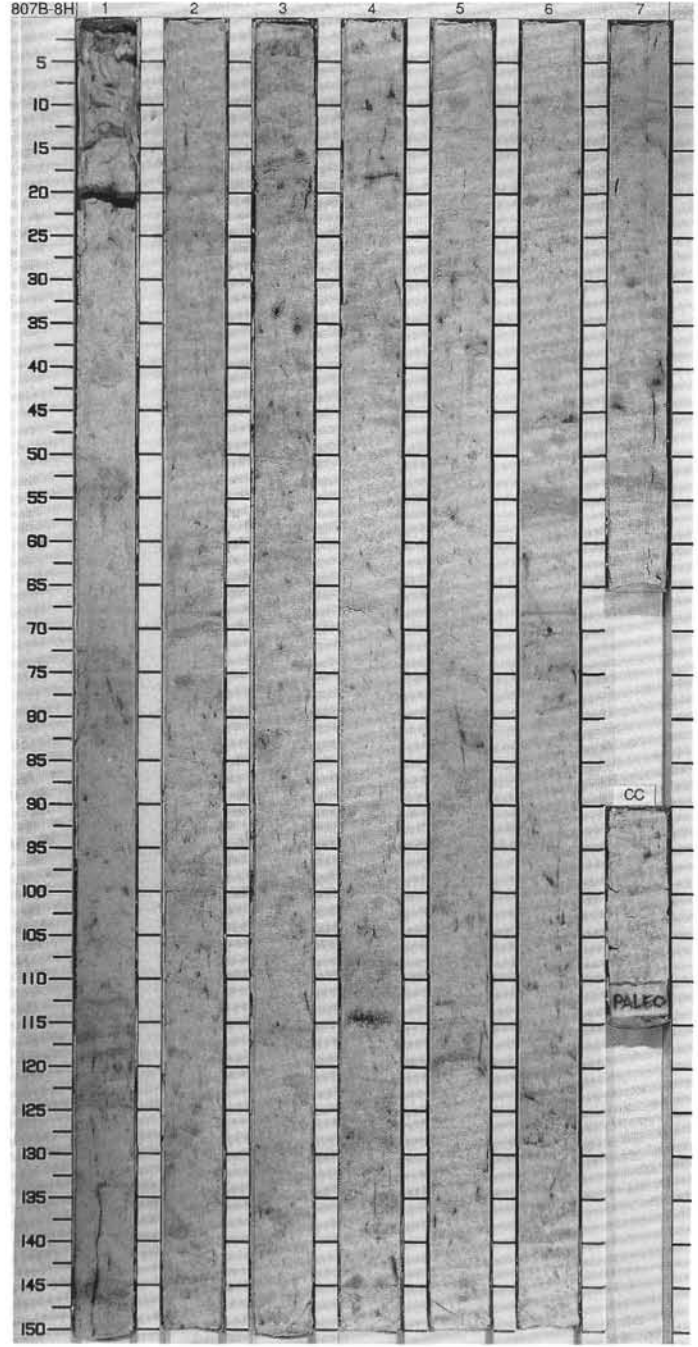
SITE 807 HOLE B CORE 7H CORED INTERVAL 50.6-60.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
UPPER PLIOCENE													
A/P	N21				V-15900-068.0 2.1, 3.3		1	0.5 1.0					<p>FORAMINIFER NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS</p> <p>Major lithology: This core contains white (2.5Y 8.0) interbedded FORAMINIFER NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS. The sediment is moderately to heavily bioturbated, with cm scale, light gray (5Y 7.2), vertical and horizontal burrows. The burrow fills are often sandier than the surrounding sediment. Grayish blue (5PB 5.2), commonly vertical, mm size, pyrite burrows are less common. Light greenish gray (5G 7.1), and pale purple (5P 6.2) to grayish blue (PB 5.2) color bands are present to abundant.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>4.79 D</p> <p>TEXTURE:</p> <p>Sand 30 Silt 65 Clay 5</p> <p>COMPOSITION:</p> <p>Foraminifers 35 Nannofossils 60 Quartz Tr Radiolarians 2 Silicoflagellates Tr</p>
A/M	NN16				V-15998-069.5 2.1, 3.3		2						
					V-15833-087.7 2.1, 3.4		3						
					V-15799-068.8 2.1, 3.4		4						
					V-15776-077.6 2.1, 3.5		5						
					V-15833-077.7 2.1, 3.6		6						
					V-15833-081.9 2.1, 3.6		7						
							CC						

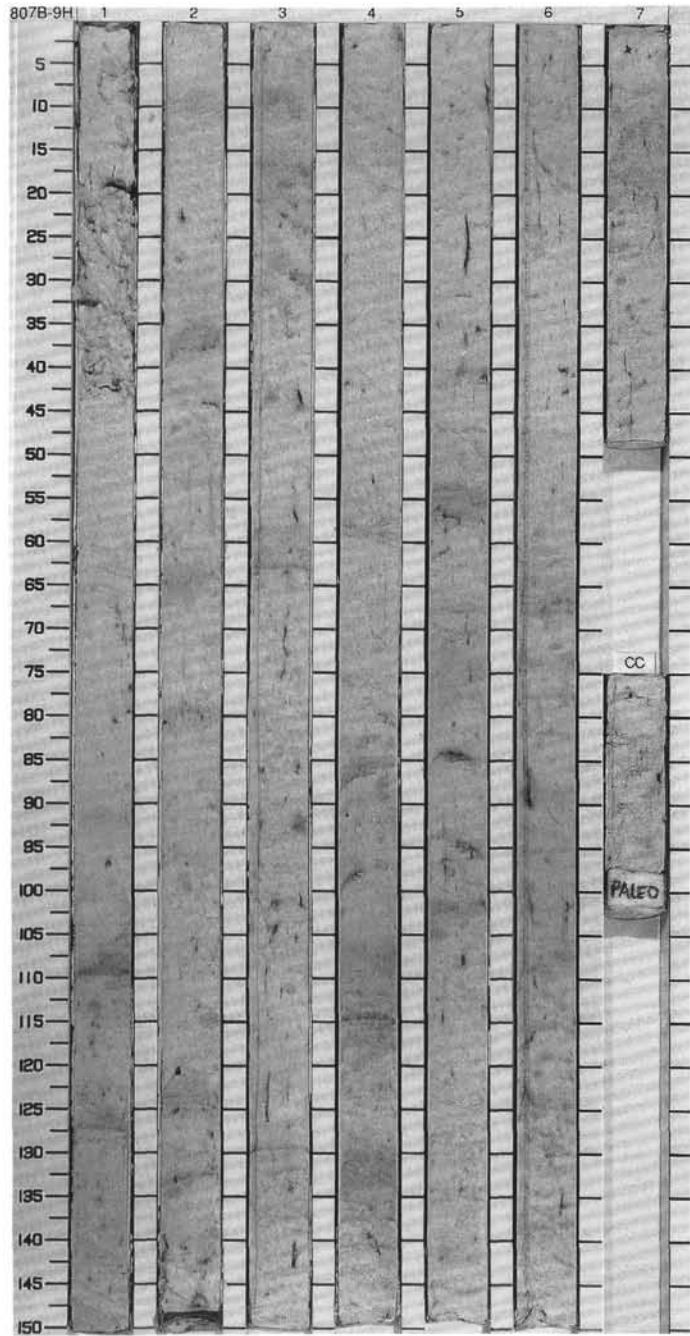


SITE 807 HOLE B CORE 8H CORED INTERVAL 60.1-69.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS								
UPPER PLIOCENE											
A/P	N19 - N20					0.5					<p>FORAMINIFER NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS</p> <p>Major lithology: This core contains white (2.5Y 8/0) interbedded FORAMINIFER NANNOFOSSIL OOZE and NANNOFOSSIL OOZE with FORAMINIFERS. Slight to heavy bioturbation is indicated by cm scale, light gray (2.5Y 7/2) and grayish blue (5PB 5/2) pyritized burrows. Light greenish gray (5G 7/1) color bands are present to abundant throughout this core. Pale purple (5P 6/2) to grayish blue (PB 5/2) color bands are less common and are present in Sections 1 through 5.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="padding-left: 20px;">3.80 D</p> <p>TEXTURE:</p> <p>Sand 35 Silt 60 Clay 5</p> <p>COMPOSITION:</p> <p>Foraminifers 35 Nannofossils 60 Quartz Tr Radiolarians 2 Silicoflagellates Tr</p>
A/G	NN16					1.0					
						1.5					
						2.0					
						2.5					
						3.0					
						3.5					
						4.0					
						4.5					
						5.0					
						5.5					
						6.0					
						6.5					
						7.0					
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						15.0					

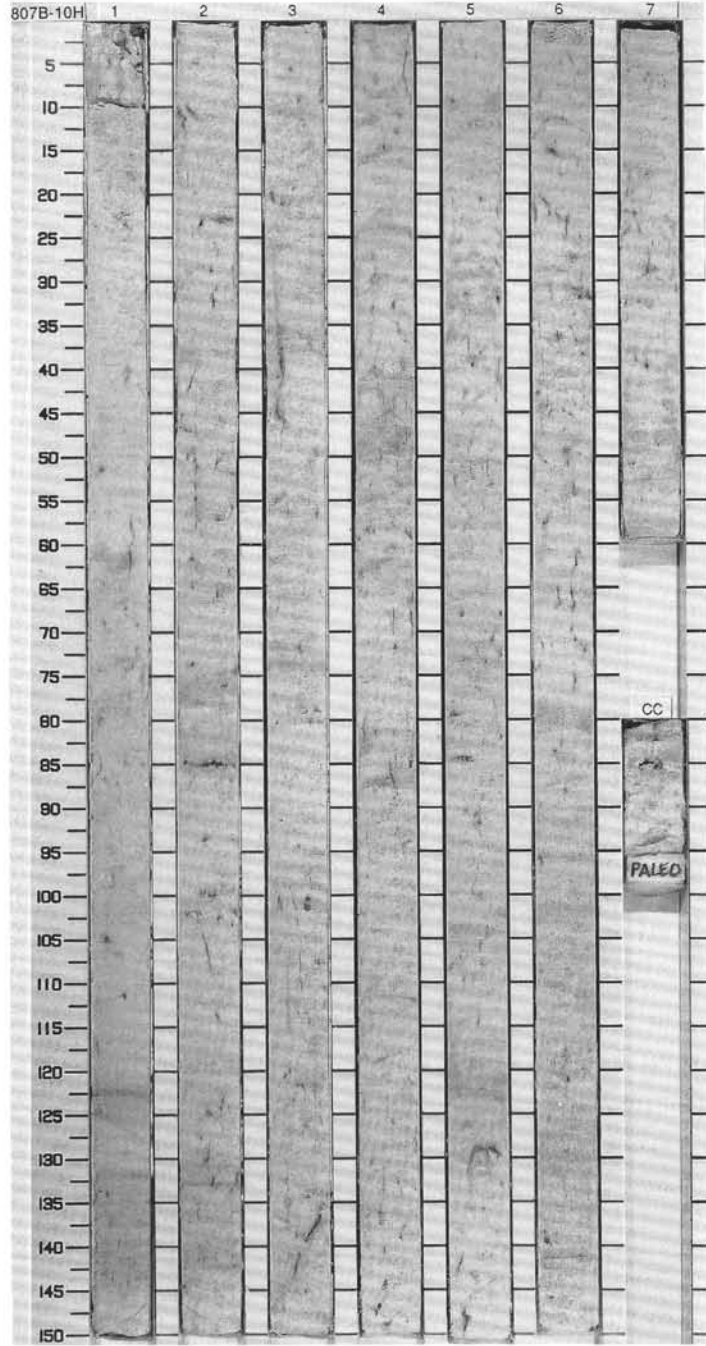


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS											
LOWER PLIOCENE												
A/P	N19 - N20					1	0.5					<p>FORAMINIFER NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS</p> <p>Major lithology: This core contains white (2.5Y 8.0) interbedded FORAMINIFER NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS. Slight to heavy bioturbation is indicated by cm scale, light gray (2.5Y 7.2 and 5Y 7.1) mottling and grayish blue (5P 5.2) pyritized burrows. Light greenish gray (5G 7.1) color bands are present to abundant throughout the core. white pale purple (5P 6.2) to grayish blue (PB 5.2) color bands are less common. A color band at 52.55 cm in Section 5 is microtauled. Pyrite nodules are present in Sections 3 and 6.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">3.79 D</p> <p>TEXTURE:</p> <p>Sand 25 Silt 70 Clay 5</p> <p>COMPOSITION:</p> <p>Foraminifers 30 Nannofossils 69 Siliceous fragments 1</p>
A/G	NN13 - NN15					2	1.0					
						3						
						4						
						5						
						6						
						7						
						CC						

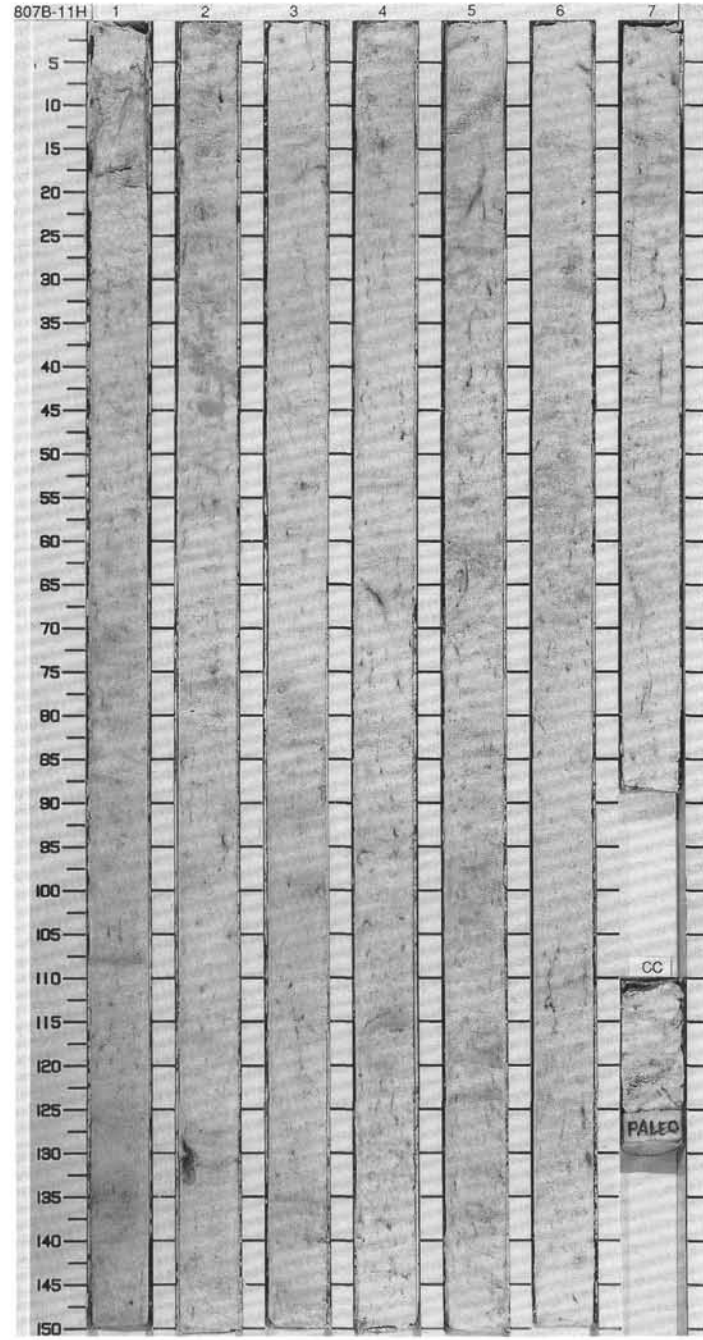


SITE 807 HOLE B CORE 10H CORED INTERVAL 79.1-88.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
LOWER PLIOCENE													
A/P	N18 - N19				V-1561.0-66.3 1.1.39			0.5					<p>FORAMINIFER NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS</p> <p>Major lithology. This core contains white (2.5Y 8/0) interbedded FORAMINIFER NANNOFOSSIL OOZE and NANNOFOSSIL OOZE with FORAMINIFERS. Slight to heavy bioturbation is indicated by cm scale, light gray (2.5Y 7/2) mottling, by individual, vertical and horizontal burrows, and by grayish blue (5PB 5/2), pyritized, commonly vertical, burrows. Light greenish gray (5G 7/1) color bands are common to abundant throughout this core, while pale purple (5P 6/2) to grayish blue (PB 5/2) color bands are present but less common.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>3.88 D</p> <p>TEXTURE:</p> <p>Sand 30 Silt 65 Clay 5</p> <p>COMPOSITION:</p> <p>Foraminifers 28 Nannofossils 67 Radiolarians 2 Siliceous fragments Tr Silicoflagellates Tr</p>
A/M	NN13 - NN15				V-1558.0-66.3 1.1.39		1.0						
					V-1554.0-65.9 1.1.38		2						
					V-1565.0-67.1 1.1.38		3						
					V-155.4 1.60		4						
					V-1590.0-65.7 1.1.39		5						
							6						
							7						
							CC						

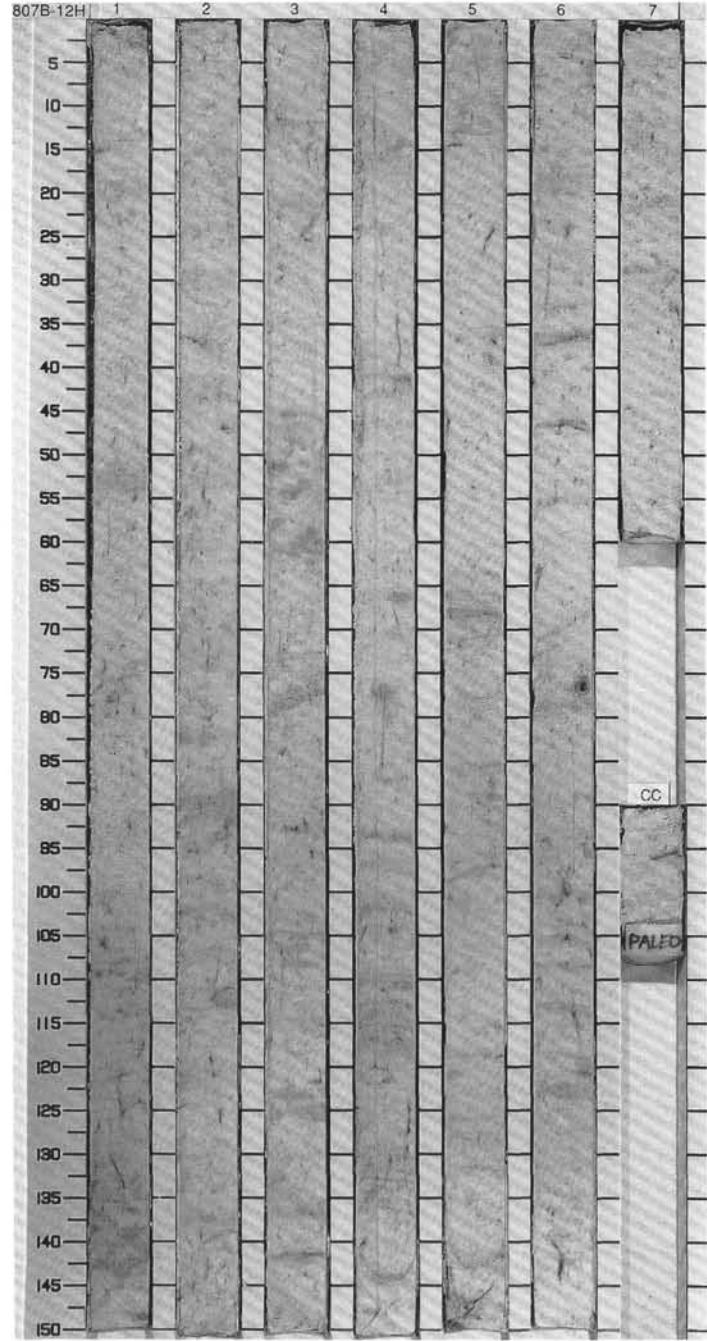


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS							
A/M	LOWER PLEISTOCENE										
A/M	N18 - N19 NN13 - NN15										
					V-1572 88.4-88.54 2.1-2.59		1				FORAMINIFER NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS
					V-1601 85.8-86.58 2.1-2.59		2				Major lithology: This core contains white (2.5Y 8/0) interbedded FORAMINIFER NANNOFOSSIL OOZE and NANNOFOSSIL OOZE with FORAMINIFERS. Slight to heavy bioturbation is indicated by cm scale, light gray (2.5Y 7/2) mottling by individual, vertical and horizontal burrows, and by grayish blue (5PB 5/2), pyritized, commonly vertical, burrows. Light greenish gray (5G 7/1) color bands are common to abundant throughout this core, while pale purple (5P 6/2) to grayish blue (PB 5/2) color bands are present but less common.
					V-1590 85.7-86.7 2.1-2.60		3				SMEAR SLIDE SUMMARY (%): D 2.79
					V-1590 85.7-86.7 2.1-2.60		4				TEXTURE: Sand 30 Silt 65 Clay 5
					V-1590 85.7-86.7 2.1-2.60		5				COMPOSITION: Foraminifers 35 Nannofossils 60 Radiolarians 2 Siliceous fragments Tr Silicoflagellates Tr
					V-1580 83.8-85.3 2.1-2.63		6				
							7				

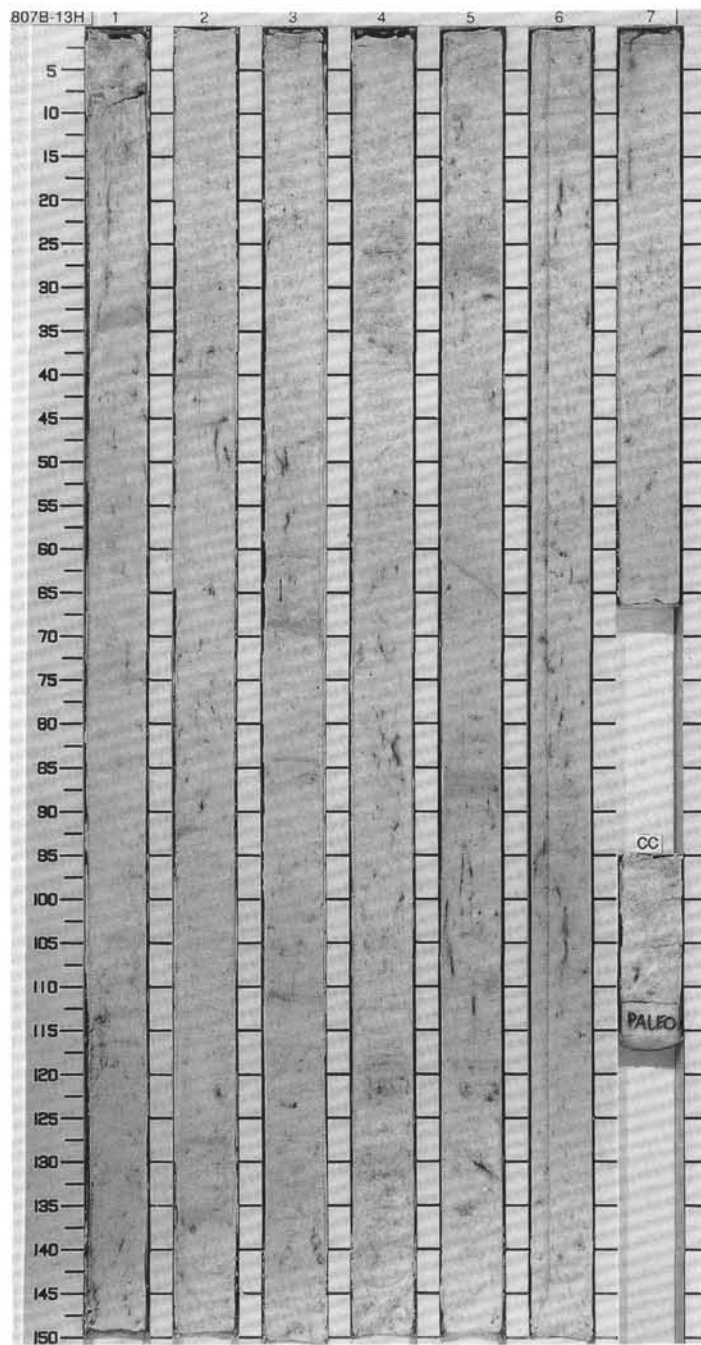


SITE 807 HOLE B CORE 12H CORED INTERVAL 98.1 - 107.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS									
LOWER PLIOCENE												
A/M	N18 - N19				V-1572 0.64.8 P-1.60		1	0.5 1.0				<p>FORAMINIFER NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS</p> <p>Major lithology: This core contains white (2.5Y 8/0) interbedded FORAMINIFER NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS. Slight to heavy bioturbation is represented by cm scale, light gray (2.5Y 7/2) mottling and grayish blue (5PB 5/2) pyritized, commonly vertical burrows. Light greenish gray (5G 7/1) color bands are common to abundant through this core, while pale purple (5P 6/2) to grayish blue (PB 5/2) color bands are present but less common. Microfaults are observed in Section 3, 135 cm, and in Section 6, 35 cm, 70 cm, 95 cm, 100 cm, 112 cm, and 121 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">1.97 D</p> <p>TEXTURE:</p> <p>Sand 10 Silt 86 Clay 4</p> <p>COMPOSITION:</p> <p>Diatoms 1 Foraminifers 20 Nannofossils 76 Radiolarians 2 Siccoflagellates 1</p>
A/G	NN13 - NN15				V-1554 0.64.8 P-1.60		2					
					V-1554 0.64.7 P-1.61		3					
					V-1561 0.65.3 P-1.60		4					
					V-1568 0.64.7 P-1.61		5					
					V-1805 0.64.7 P-1.61		6					
							7					

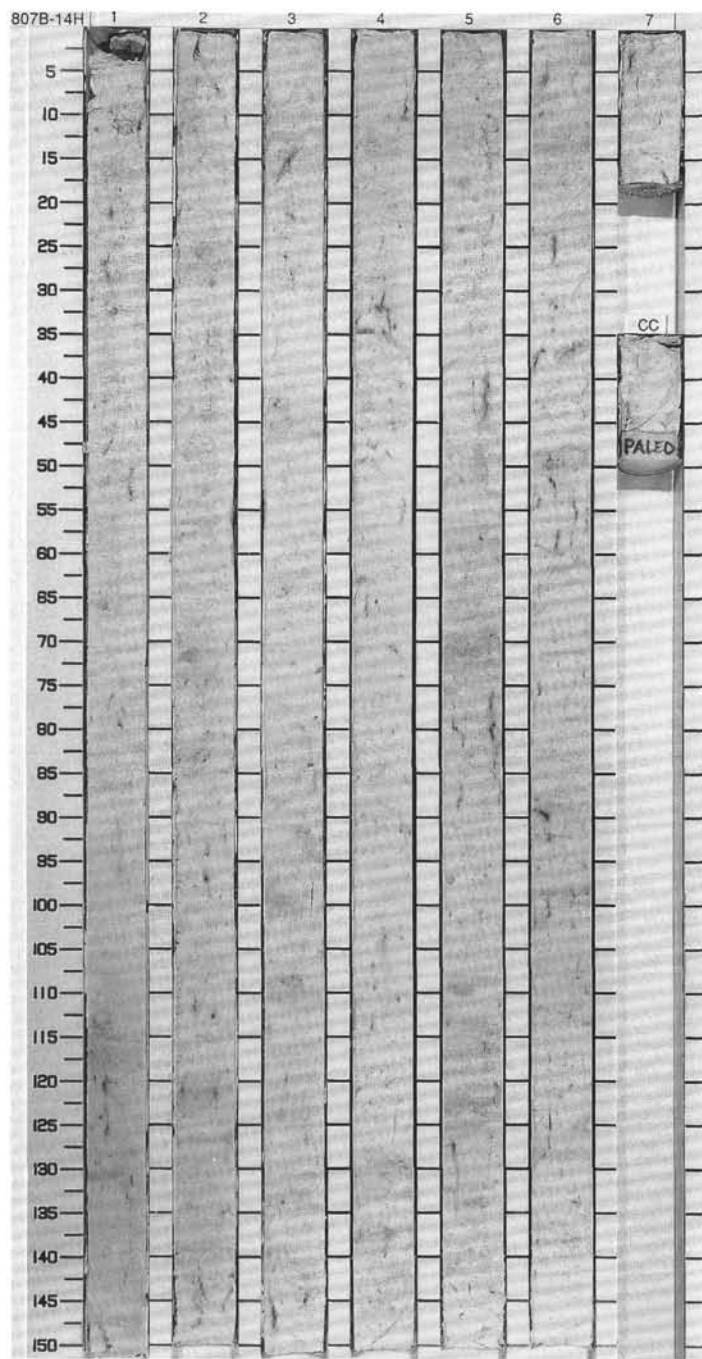


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																				
	FORAMINIFERS	NANNOFOSSILS	RADIOLIARIANS																																														
LOWER PLOCENE																																																	
A/M	N18 - N19				V-1590 0.64 5 P-1.62			0.5					<p>NANNOFOSSIL OOZE with FORAMINIFERS</p> <p>Major lithology: This core contains slightly to moderately bioturbated, white (2.5Y 8/0) NANNOFOSSIL OOZE with FORAMINIFERS. Bioturbation is represented by cm scale, light gray (2.5Y 7.2 and 5Y 7.1) mottling and grayish blue (5PB 5.2) pyritized, commonly vertical, burrows. Light greenish gray (5G 7.1) and pale purple (5P 6.2) to grayish blue (PB 5.2) color bands are common. Microfaults are observed at Section 6, 10-15 cm</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>3.74</td> <td>3.94</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>17</td> <td>10</td> </tr> <tr> <td>Silt</td> <td>63</td> <td>65</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>25</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Feldspar</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td>20</td> <td>15</td> </tr> <tr> <td>Glaes</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>80</td> <td>84</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>1</td> </tr> <tr> <td>Siliceous sponge spicules</td> <td>Tr</td> <td>Tr</td> </tr> </table>		3.74	3.94	D	D	D	Sand	17	10	Silt	63	65	Clay	20	25	Feldspar	—	Tr	Foraminifers	20	15	Glaes	Tr	Tr	Nannofossils	80	84	Quartz	Tr	Tr	Radiolarians	Tr	1	Siliceous sponge spicules	Tr	Tr
	3.74	3.94																																															
D	D	D																																															
Sand	17	10																																															
Silt	63	65																																															
Clay	20	25																																															
Feldspar	—	Tr																																															
Foraminifers	20	15																																															
Glaes	Tr	Tr																																															
Nannofossils	80	84																																															
Quartz	Tr	Tr																																															
Radiolarians	Tr	1																																															
Siliceous sponge spicules	Tr	Tr																																															
A/M	NN12			V-1601 0.65 5 P-1.39			1.0																																										
				V-1590 0.65 8 P-1.59																																													
				V-1613 0.65 6 P-1.59																																													
				V-1586 0.67 0 P-1.57																																													
				V-1543 0.64 8 P-1.60																																													
				V-1590 0.65 8 P-1.59																																													
CC																																																	



SITE 807 HOLE B CORE 14H CORED INTERVAL 117.1-126.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION	
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONES											
LOWER PLIOCENE N18 - N19 NN12	A/G								0.5					<p>NANNOFOSSIL OOZE with FORAMINIFERS to FORAMINIFER NANNOFOSSIL OOZE</p> <p>Major lithology: This core contains slightly to moderately boturbated, white (2.5Y 8/0) NANNOFOSSIL OOZE with FORAMINIFERS to FORAMINIFER NANNOFOSSIL OOZE. Boturbation is represented by cm scale, light gray (2.5Y 7.2 and 5Y 7.1), commonly horizontal burrows, and by grayish blue (5PB 5/2) pyritized, commonly vertical, burrows. Pale purple (5P 6/2) burrow "halos" are also present. Light greenish gray (5G 7/1) and pale purple (5P 6/2) to grayish blue (PB 5/2) color bands are common.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>3.78 D</p> <p>TEXTURE:</p> <p>Sand 5 Silt 90 Clay 5</p> <p>COMPOSITION:</p> <p>Foraminifers 15 Nannofossils 83 Radiolarians 2 Siliceous sponge spicules Tr</p>	
	A/M				V-1583 6.5/0 1.58			1.0							
						V-1588 6.5/2 1.58			2.0						
						V-1594 6.5/4 1.59			3.0						
						V-1596 6.5/5 1.61			4.0						
						V-1609 6.5/8 1.58			5.0						
									6.0						



TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETIC PHYS. PROPERTIES CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SEC. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS							
UPPER MIOCENE											
A/G	N17b										
A	NN11?										
V-1558 0.66.1 P-1.58	V-1579 0.64.8 P-1.60	V-1577 0.64.7 P-1.67	V-1550 0.64.4 P-1.61	V-1561 0.64.5 P-1.62							
					1						
					2						
					3						
					4						
					5						
					6						
					CC						

NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS

Major lithology: This core contains slightly to moderately bioturbated, white (2.5Y 8/0) NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS. Bioturbation is represented by cm scale, light gray (2.5Y 7.2 and 5Y 7.1), commonly horizontal burrows, and by grayish blue (5PB 5.2) pyritized, mm scale, vertical burrows. Pale purple (5P 6.2) burrow "halos" are also present. Light greenish gray (5G 7.1) and pale purple (5P 6.2) to grayish blue (PB 5.2) color bands are common throughout. In Section 4, some of color bands are microfaulted.

SMEAR SLIDE SUMMARY (%):

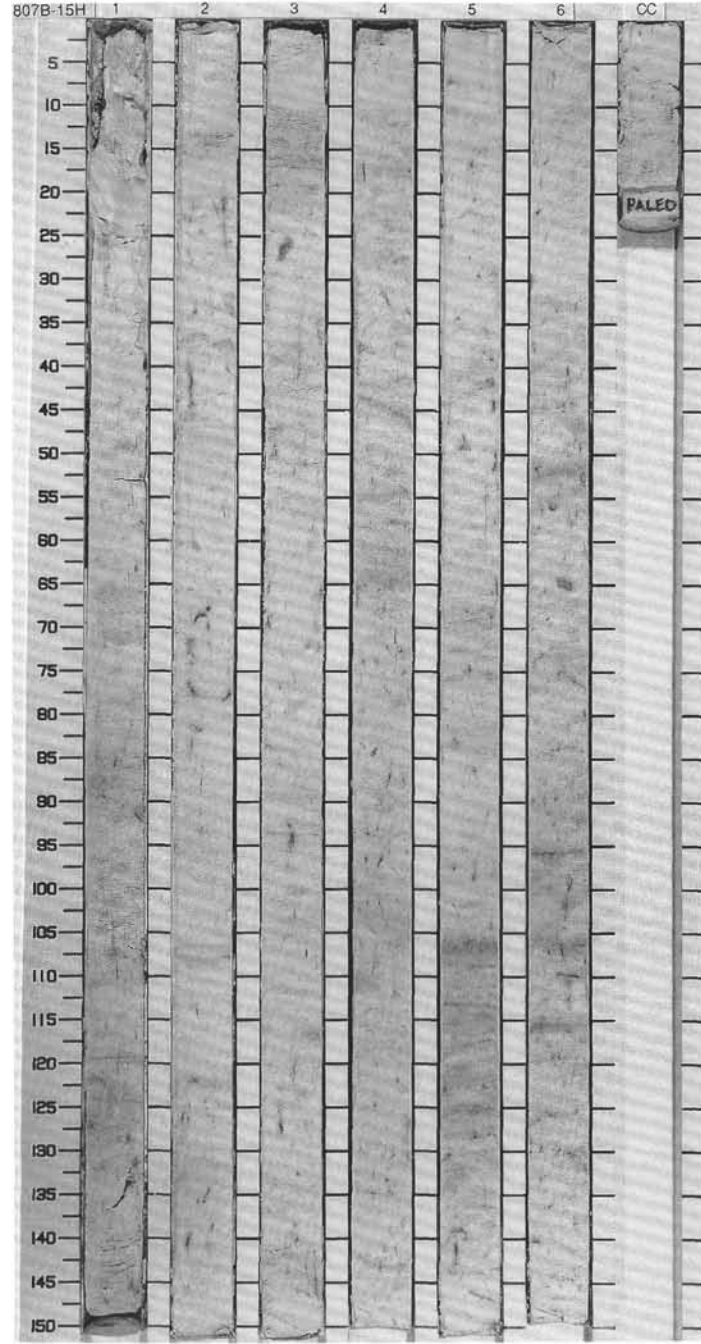
	2.87
D	

TEXTURE

Sand	10
Silt	85
Clay	5

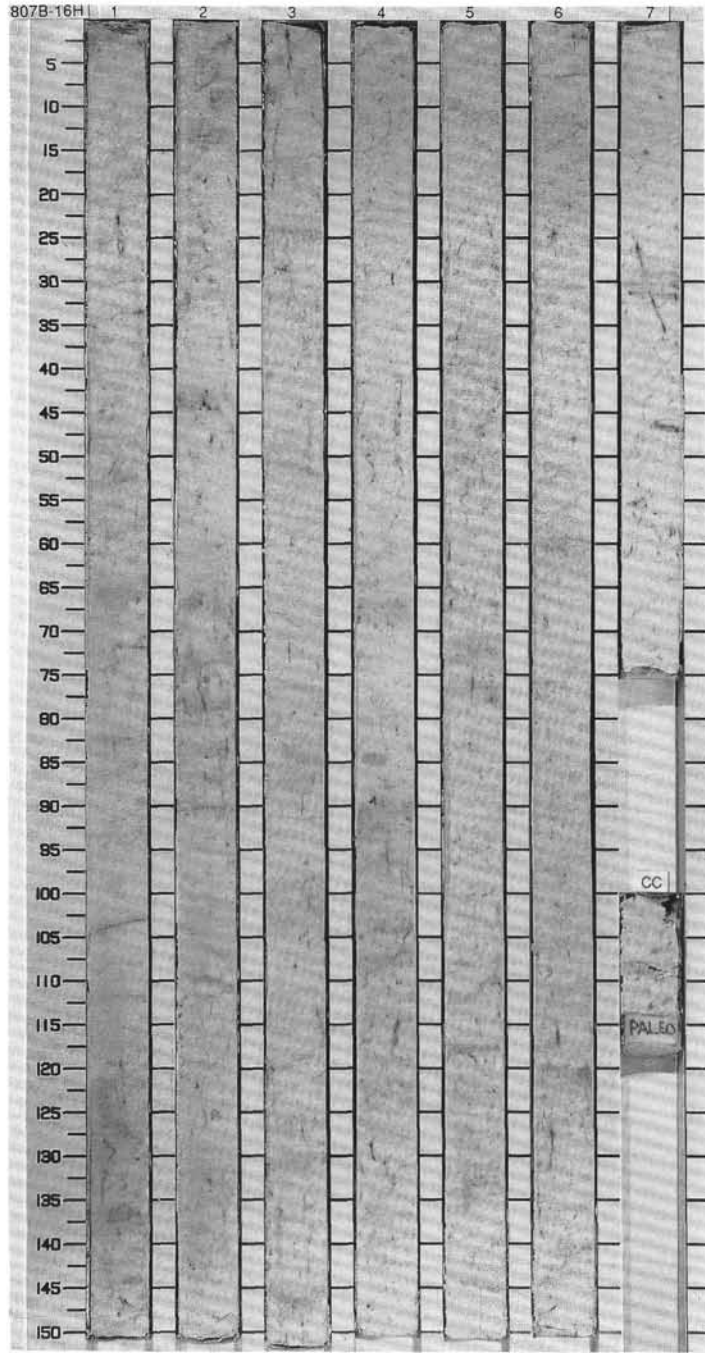
COMPOSITION

Foraminifers	8
Nannofossils	90
Radiolarians	Tr
Siliceous sponge spicules	Tr
Sicoflagellates	Tr

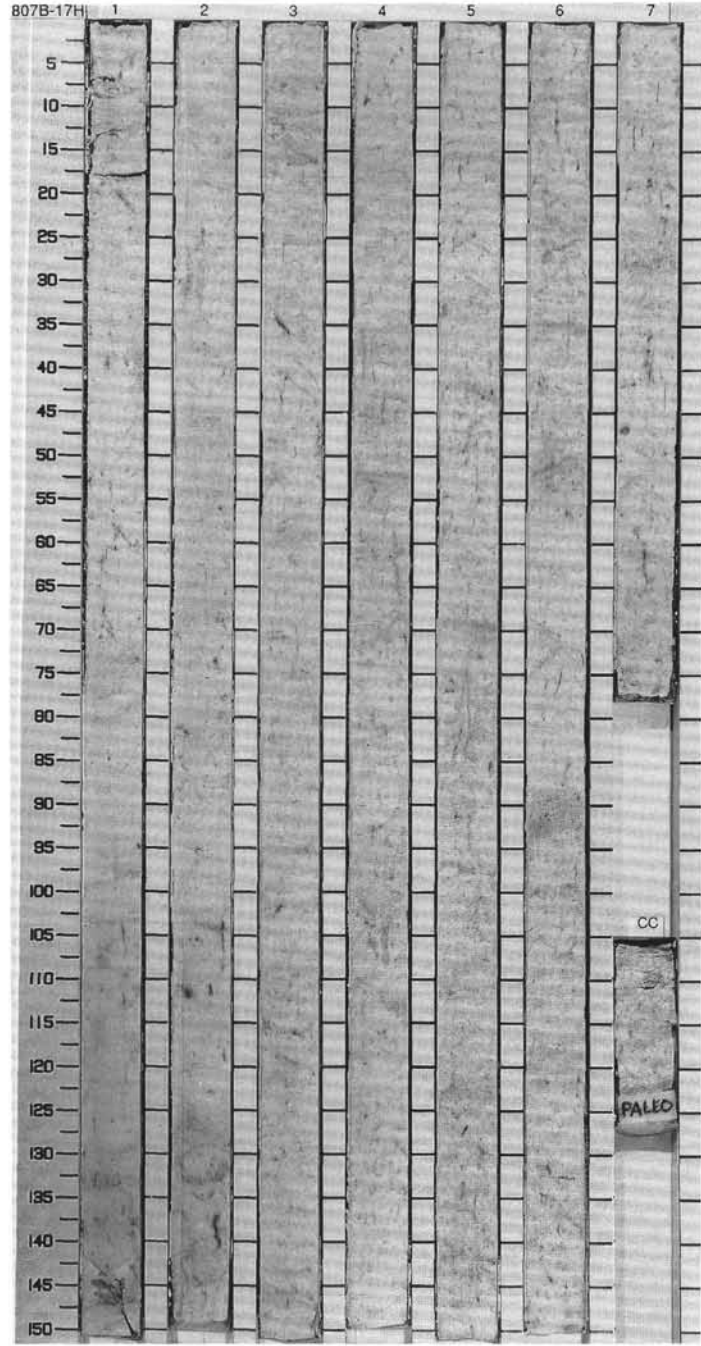


SITE 807 HOLE B CORE 16H CORED INTERVAL 136.1-145.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS								
UPPER MIOCENE											
A/G	N17b				V-1568 0.64.2		0.5				<p>NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS</p> <p>Major lithology. This core contains slightly to moderately bioturbated, while (2.5Y 8/0) NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS. Bioturbation is expressed as cm scale, light gray (2.5Y 7/2) mottles and mm to cm scale grayish blue (5PB 5/2), pyrite-filled burrows. Faint, light greenish gray (5G 7/1) and pale purple (5P 6/2) color bands are present to abundant through this core. Grayish blue (5PB 5/2) color bands are less common.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">D 3.80</p> <p>TEXTURE:</p> <p>Sand 10 Silt 85 Clay 5</p> <p>COMPOSITION:</p> <p>Foraminifers 8 Nannofossils 90 Radiolarians Tr Siliceous sponge spicules Tr Miccolagellates Tr</p>
A/M	NN11				V-1575 0.63.3		1.0				
					V-1554 0.62.1						
					V-1598 0.63.3		2				
					V-1550 0.63.2		3				
					V-1565 0.63.0		4				
					V-1565 0.63.1		5				
							6				
							7				
							CC				

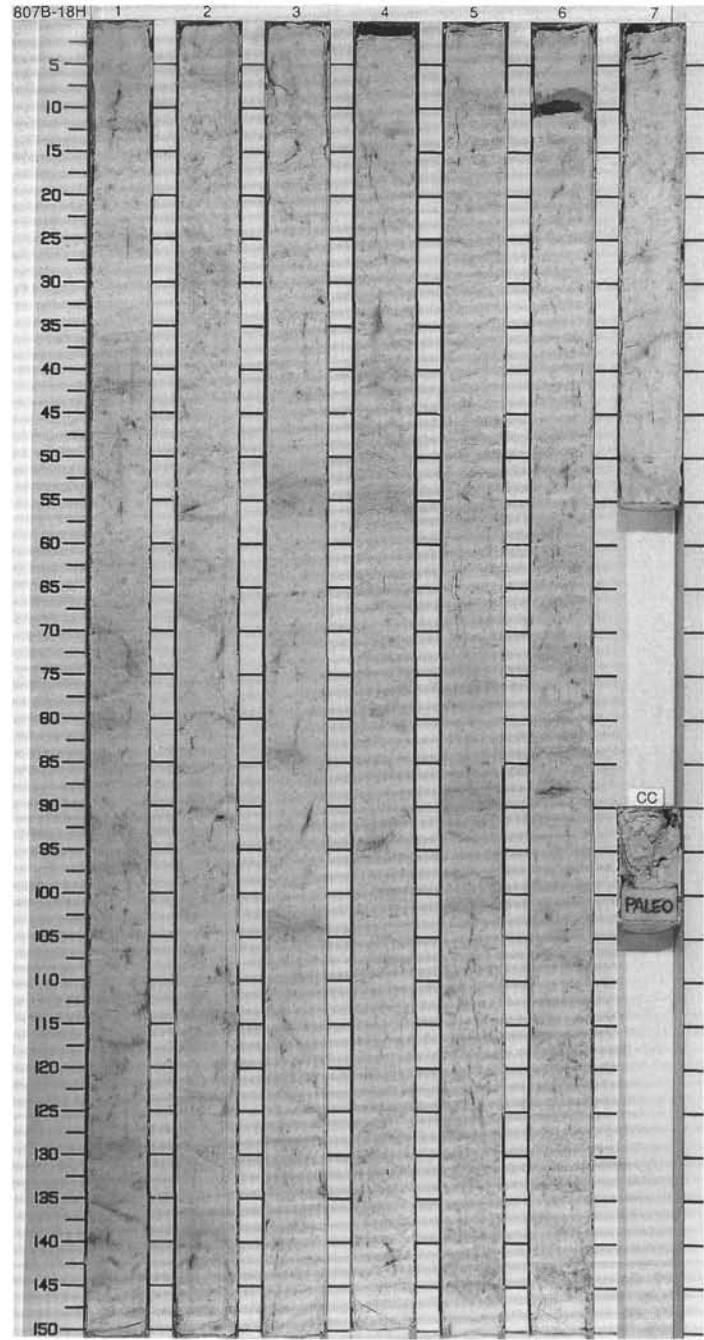


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZOME									
UPPER MIOCENE													
A/G	N17b	NN11											
					V-1594-64.3 P-1.64			1	0.5				
					V-1605-62.7 P-1.64			2	1.0				
					V-1628-63.5 P-1.63			3					
					V-1601-64.5 P-1.61			4					
					V-1620-62.9 P-1.64			5					
					V-1585-63.5 P-1.63			6					
								7					
								CC					

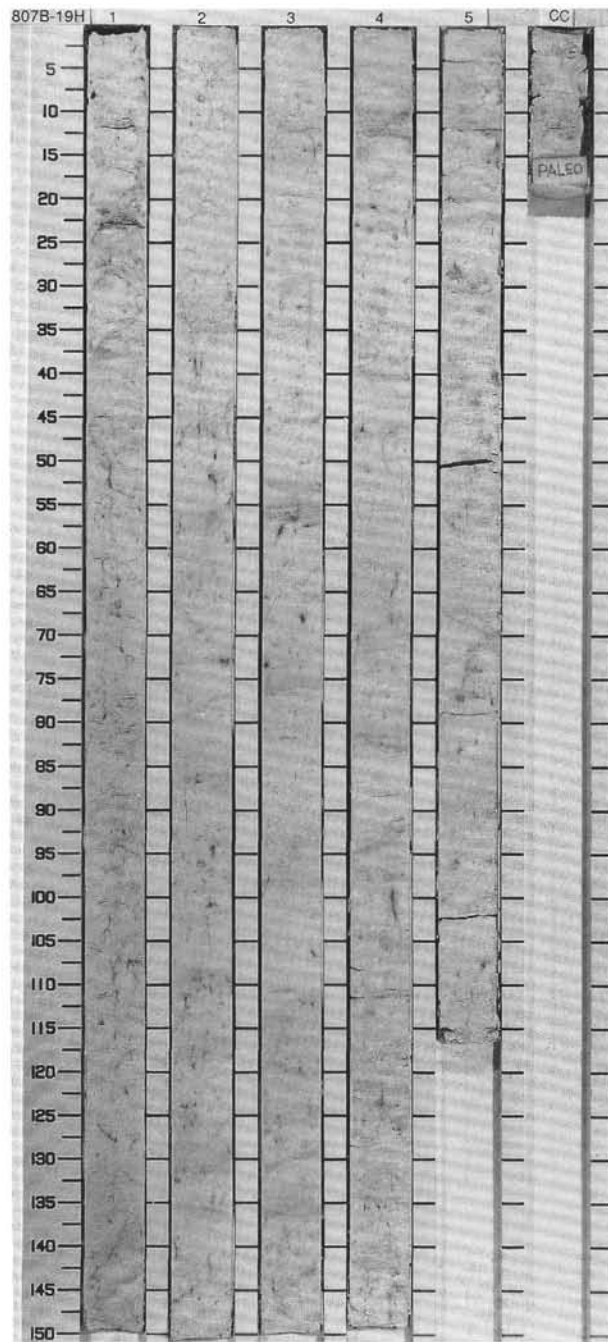


SITE 807 HOLE B CORE 18H CORED INTERVAL 155.1-164.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS								
UPPER MIOCENE											
A/P	N17B				V-1624-63.8 P-1.93		0.5				<p>NANNOFOSSIL OOZE with FORAMINIFERS to FORAMINIFER NANNOFOSSIL OOZE</p> <p>Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL OOZE with FORAMINIFERS to FORAMINIFER NANNOFOSSIL OOZE. Moderate to heavy bioturbation is evident from abundant pyrrite-filled burrows, and light gray (2.5Y 7/2) mottles. Pale purple (5P 6/2), greenish gray (5G 7/1), and reddish gray (5R 6/1) color bands, about 1 cm in width, are common, usually occurring together in pairs and triplets. The color bands are usually faint.</p> <p>SMEAR SLIDE SUMMARY (%)</p> <p style="margin-left: 40px;">3, 74 D</p> <p>TEXTURE:</p> <p>Sand 12 Silt 55 Clay 33</p> <p>COMPOSITION</p> <p>Accessory minerals 1 Foraminifers 21 Nannofossils 75 Siliceous fragments 3</p>
A	NN11				V-1624-63.8 P-1.93		1.0				
					V-1631-64.5 P-1.61		2				
					V-1594-65.1 P-1.59		3			*	
					V-1565-64.0 P-1.62		4				
					V-1575-64.6 P-1.61		5				
					V-1540-65.0 P-1.61		6				
							7				

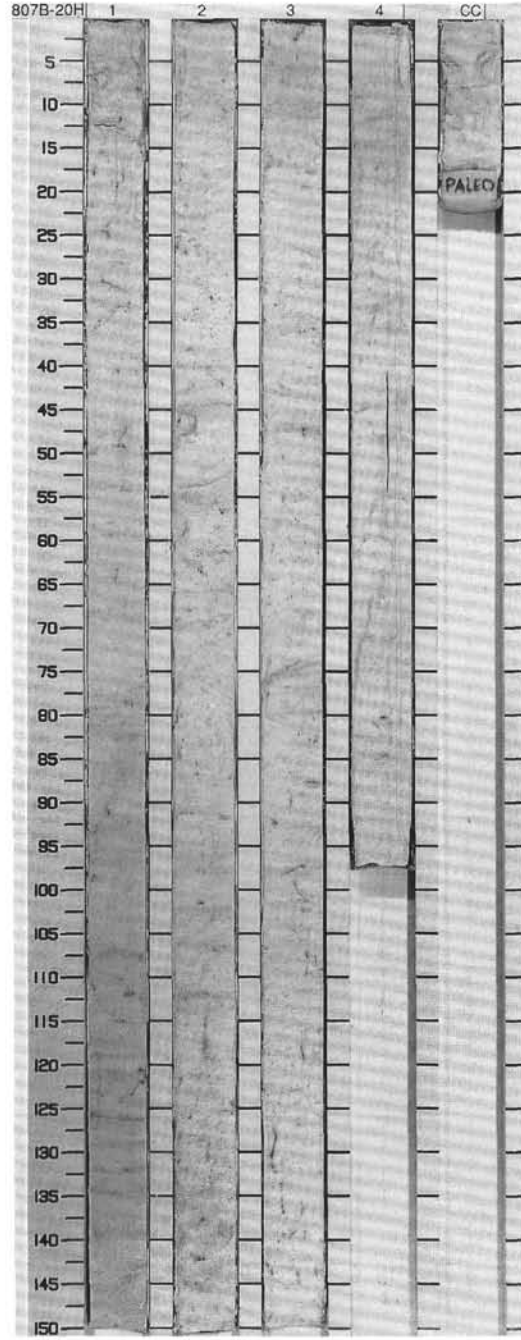


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																		
FORAMINIFERS	NANNOFOSSILS												RADIOLARIANS	DIAZONIS																
UPPER MIOCENE																														
A/G	NI 7a											<p>NANNOFOSSIL OOZE with FORAMINIFERS to FORAMINIFER NANNOFOSSIL OOZE</p> <p>Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL OOZE with FORAMINIFERS to FORAMINIFER NANNOFOSSIL OOZE. Light gray (2.5Y 7/2) burrows and pale purple (5P 6/2) mottles and pyrite fragments indicate extensive bioturbation. Pale green (5G 7/1) and pale purple (5P 6/2) horizontal, 1 to 3 cm thick color bands are present throughout. A few intervals (< 1 cm thick) are stiffer than the rest of the sediment. There is a slight H₂S odor to the core. The base of Section 1 is microfaulted.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr><td></td><td>3.74</td></tr> <tr><td>D</td><td>0</td></tr> </table> <p>TEXTURE</p> <table border="0"> <tr><td>Sand</td><td>15</td></tr> <tr><td>Silt</td><td>55</td></tr> <tr><td>Clay</td><td>30</td></tr> </table> <p>COMPOSITION</p> <table border="0"> <tr><td>Accessory minerals</td><td>1</td></tr> <tr><td>Foraminifers</td><td>22</td></tr> <tr><td>Nannofossils</td><td>75</td></tr> <tr><td>Siliceous fragments</td><td>2</td></tr> </table>		3.74	D	0	Sand	15	Silt	55	Clay	30	Accessory minerals	1	Foraminifers	22	Nannofossils	75	Siliceous fragments	2
	3.74																													
D	0																													
Sand	15																													
Silt	55																													
Clay	30																													
Accessory minerals	1																													
Foraminifers	22																													
Nannofossils	75																													
Siliceous fragments	2																													
A/M	NN11																													
				V-1594 164.1-163		1	0.5																							
				V-1575 161.8-161		2	1.0																							
				V-1586 161.68-161.63		3	1.0																							
				V-1575 164.8-164.8		4	1.0																							
				V-1586 161.60-161.60		5	1.0																							
				V-1583 161.65-161.65		CC	1.0																							



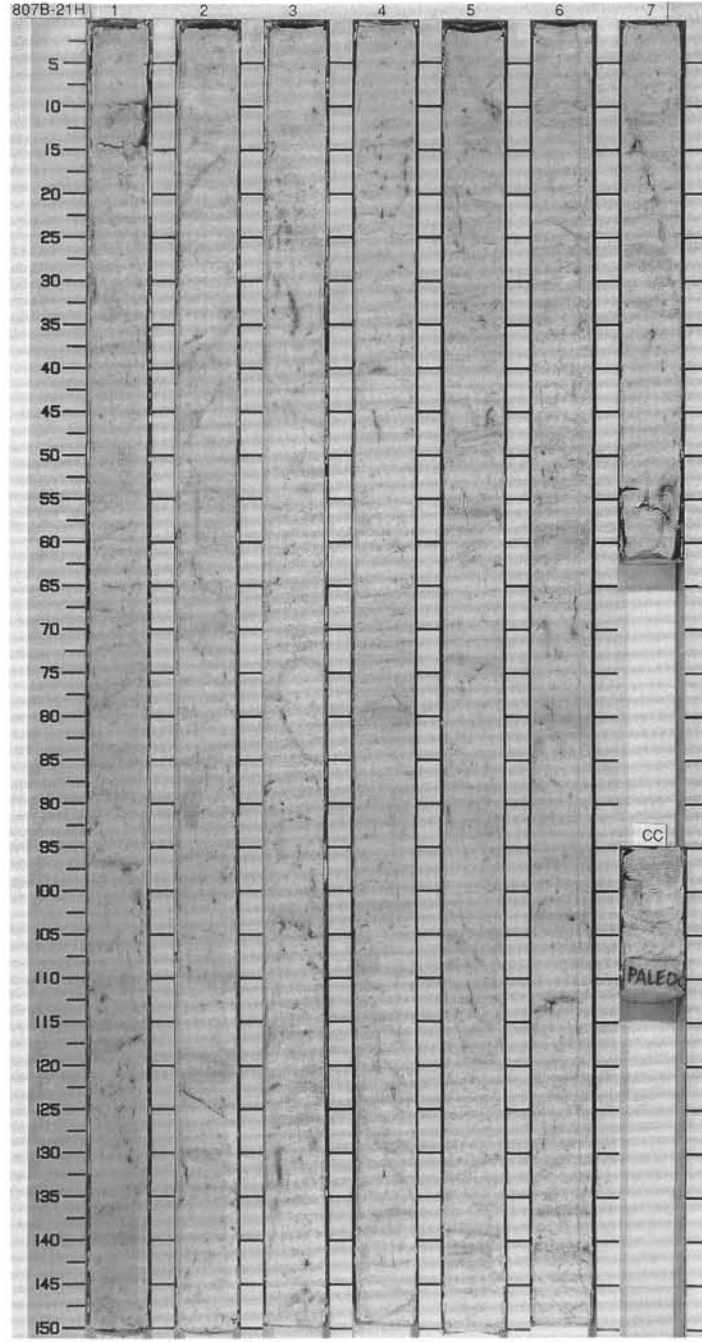
SITE 807 HOLE B CORE 20H CORED INTERVAL 174.1-183.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
UPPER MIOCENE	N17a	NN11					1						<p>NANNOFOSSIL OOZE with FORAMINIFERS to FORAMINIFER NANNOFOSSIL OOZE</p> <p>Major lithology. This core contains white (2.5Y 8/0) NANNOFOSSIL OOZE with FORAMINIFERS to FORAMINIFER NANNOFOSSIL OOZE. Abundant cm thick, greenish gray (5G 7/1), pale purple (5P 6/2), and reddish gray (5R 6/1) color banding is noted. Pyrite-filled burrows with purple borders also are abundant and indicative of heavy bioturbation. A slight H₂S odor was noted upon splitting the core.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">2, 75 D</p> <p>TEXTURE:</p> <p>Sand 10 Silt 80 Clay 10</p> <p>COMPOSITION:</p> <p>Diatoms Tr Foraminifers 15 Nannofossils 85 Radiolarians Tr Siliceous fragments Tr</p>
A/G							2						
A							3						
							4						
							CC						



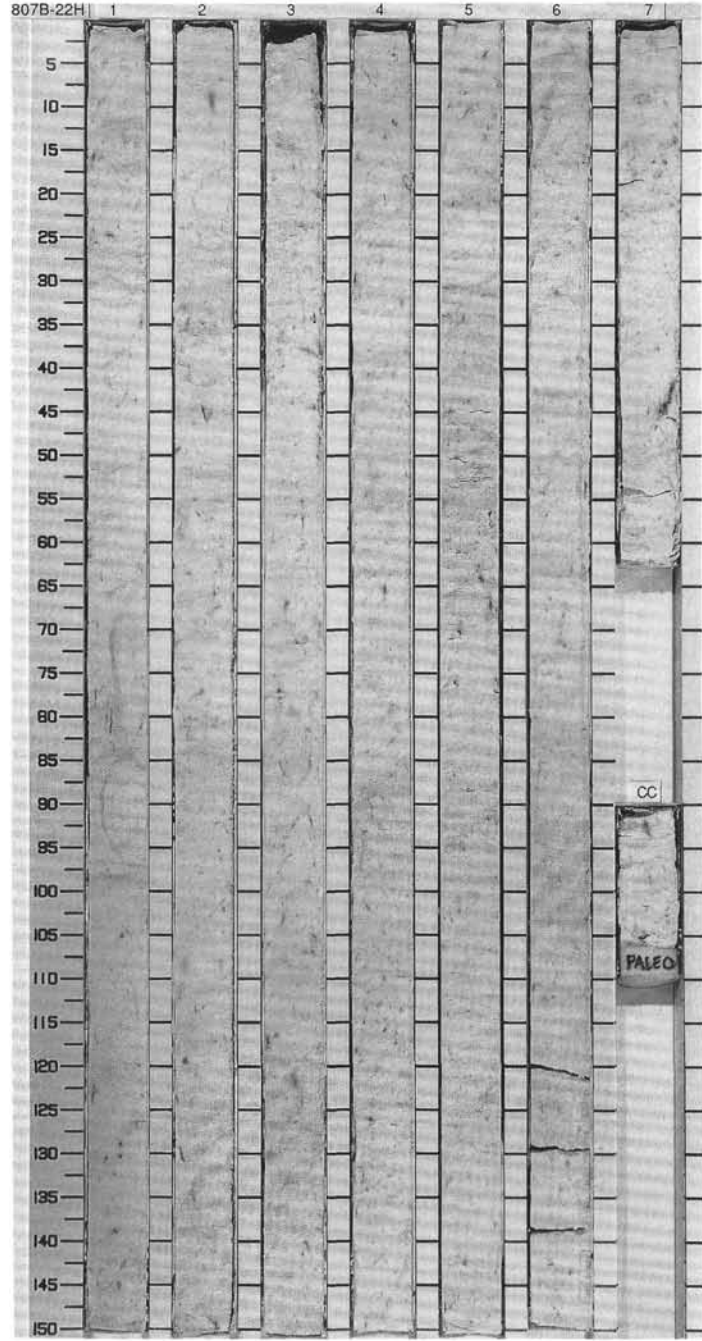
SITE 807 HOLE B CORE 21H CORED INTERVAL 183.6-193.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE / FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAATOMS										
UPPER MIOCENE	A/P													<p>NANNOFOSSIL OOZE with FORAMINIFERS</p> <p>Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL OOZE with FORAMINIFERS. Centimeter-scale greenish gray (5G 7/1), pale purple (5P 5/2) and reddish gray (5R 6/1) color banding is common. The color bands are typically faint, though some are distinct. A few gray (2.5Y 6/1) color bands are also noted. Heavy bioturbation is indicated by abundant pyrite filled burrows. Some pale purple swirls and halo structures were observed that appear to be related to fluid migration fronts. These features overprint the horizontal color bands. Centimeter-scale, slightly stiffer intervals were noted, often corresponding to intervals of color banding.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: center;">3.75 D</p> <p>TEXTURE:</p> <p>Sand 5 Silt 75 Clay 20</p> <p>COMPOSITION:</p> <p>Diatoms Tr Foraminifers 10 Nannofossils 89 Radiolarians Tr Siliceous fragments Tr</p>
		N17a				V-1572 ● $\frac{0.61.6}{\rho=1.68}$		1	0.5 1.0					
	A	NN11				V-1582 ● $\frac{0.61.7}{\rho=1.65}$		2						
						V-1572 ● $\frac{0.62.8}{\rho=1.64}$		3						
						V-1590 ● $\frac{0.62.1}{\rho=1.63}$		4						
						V-1583 ● $\frac{0.62.5}{\rho=1.64}$		5						
						V-1575 ● $\frac{0.63.5}{\rho=1.62}$		6						
							7							
							CC							

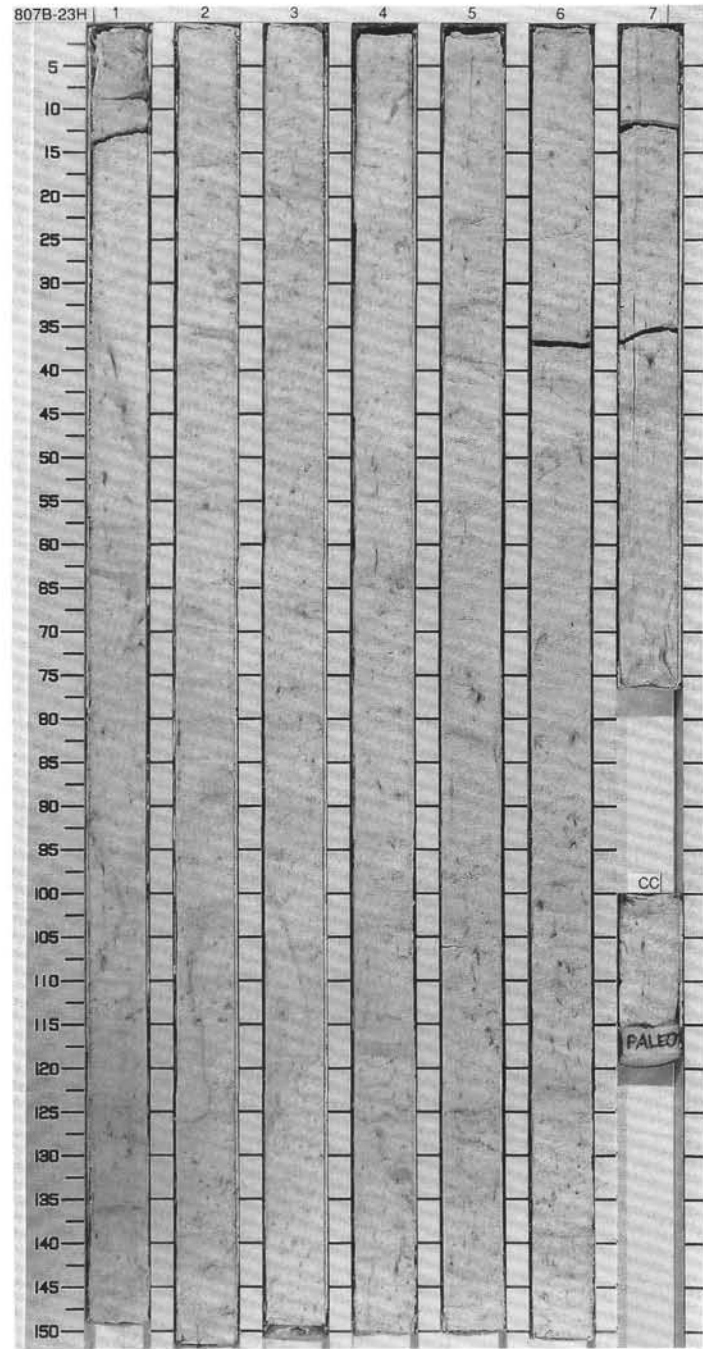


SITE 807 HOLE B CORE 22H CORED INTERVAL 193.1-202.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTORB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS									
UPPER MIOCENE												
A/G	NI 7a				V-1590 0.61.0		1	0.5				<p>NANNOFOSSIL OOZE with FORAMINIFERS</p> <p>Major lithology: This core contains intensely bioturbated, white (2.5Y 8/0) NANNOFOSSIL OOZE with FORAMINIFERS. Evidence for bioturbation consists of light gray (2.5Y 7/2) burrow-fills, and pyrite fragments, as well as pale purple (5P 6/2) halos, and mottles. Horizontal, 1 to 3 cm thick color bands are present throughout the core and are either pale purple (5P 6/2) or pale green (5G 7/2) in color. The bands are often overprinted by the pale purple mottles. A few microfaults are present in the top two sections. Some of the color bands are distinctly stiffer than the surrounding ooze.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>Sand 3.74 D</p> <p>TEXTURE:</p> <p>Sand 13 Silt 55 Clay 32</p> <p>COMPOSITION:</p> <p>Accessory minerals 1 Diatoms Tr Foraminifers 18 Nannofossils 79 Siliceous fragments 2</p>
A/P	NN 11				V-1579 0.59.1		2	1.0				
					V-1572 0.61.3		3					
					V-1605 0.62.8		4					
					V-1568 0.61.3		5					
					V-1568 0.61.2		6					
					V-1568 0.61.68		7					
							CC					

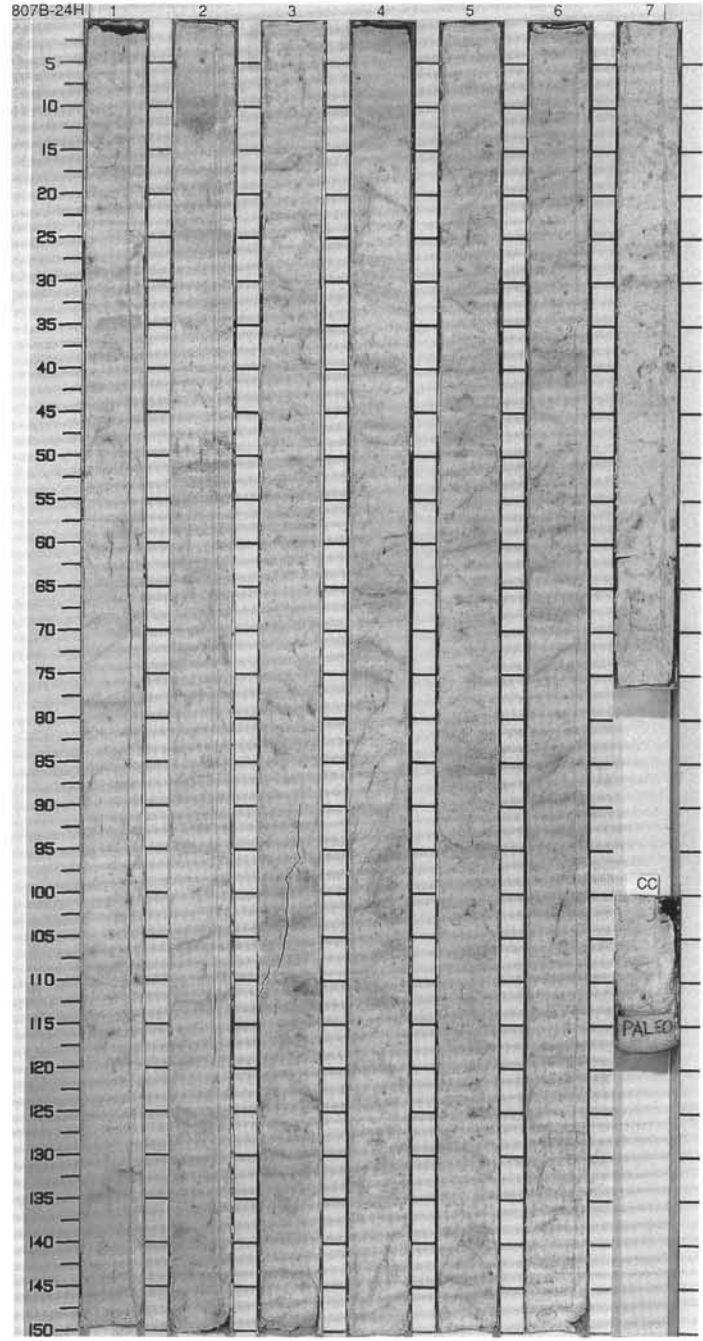


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB	SEC. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
UPPER MIOCENE													
A/G	N17a												
A/P	NN11												
				V-1598 60.0 P-1.69	V-1598 60.0 P-1.69		1	0.5 1.0					
				V-1588 61.7 P-1.67	V-1588 61.7 P-1.67		2						
				V-1588 60.4 P-1.68	V-1588 60.4 P-1.68		3			*			
				V-1575 61.5 P-1.66	V-1575 61.5 P-1.66		4						
				V-1620 63.0 P-1.65	V-1620 63.0 P-1.65		5						
				V-1579 60.2 P-1.66	V-1579 60.2 P-1.66		6						
				V-1515 61.1 P-1.66	V-1515 61.1 P-1.66		7						
							CC						

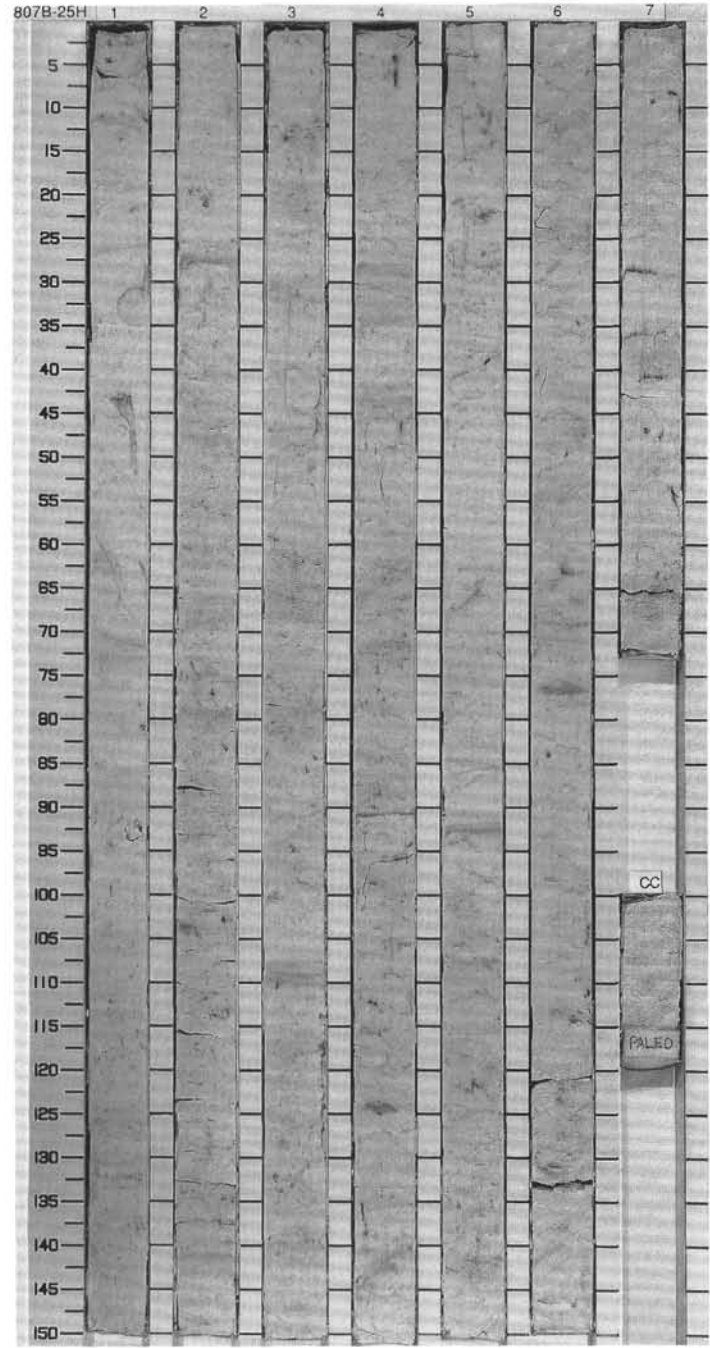


SITE 807 HOLE B CORE 24H CORED INTERVAL 212.1-221.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS									
UPPER MIOCENE	N16 - N17a											<p>NANNOFOSSIL OOZE with FORAMINIFERS to NANNOFOSSIL OOZE</p> <p>Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL OOZE with FORAMINIFERS to FORAMINIFER NANNOFOSSIL OOZE. The sediment has faint, horizontal, pale purple (5P 6/2) and pale green (5G 7/2) color bands throughout. Bioturbation is indicated by abundant light gray (2.5Y 7/2) and pale purple (5P 6/2) mottles. These mottles commonly overprint the faint color bands. Microfaults are apparent in sections 1.2 and 4. Some of the color bands are slightly stiffer than white ooze.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>3.74 D</p> <p>TEXTURE:</p> <p>Sand 15 Silt 55 Clay 30</p> <p>COMPOSITION:</p> <p>Accessory minerals 1 Diatoms Tr Foraminifers 21 Nannofossils 75 Succineous fragments 3</p>
A/G	N16 - N17a			V-1579-0-63.7	V-1579-0-62.1		1	0.5				
A/P	NN11			V-1579-0-63.3	V-1579-0-62.1		1	1.0				
				V-1583-0-64.2	V-1594-0-62.1		2					
				V-1557-0-64.2	V-1594-0-62.1		2					
				V-1583-0-63.3	V-1594-0-62.1		3					
				V-1583-0-63.3	V-1594-0-62.1		3					
				V-1616-0-59.9	V-1594-0-62.1		4					
				V-1616-0-59.9	V-1594-0-62.1		4					
				V-1579-0-63.3	V-1594-0-62.1		5					
				V-1579-0-63.3	V-1594-0-62.1		5					
				V-1579-0-63.3	V-1594-0-62.1		6					
				V-1579-0-63.3	V-1594-0-62.1		6					
				V-1579-0-63.3	V-1594-0-62.1		7					
				V-1579-0-63.3	V-1594-0-62.1		7					
				V-1579-0-63.3	V-1594-0-62.1		CC					

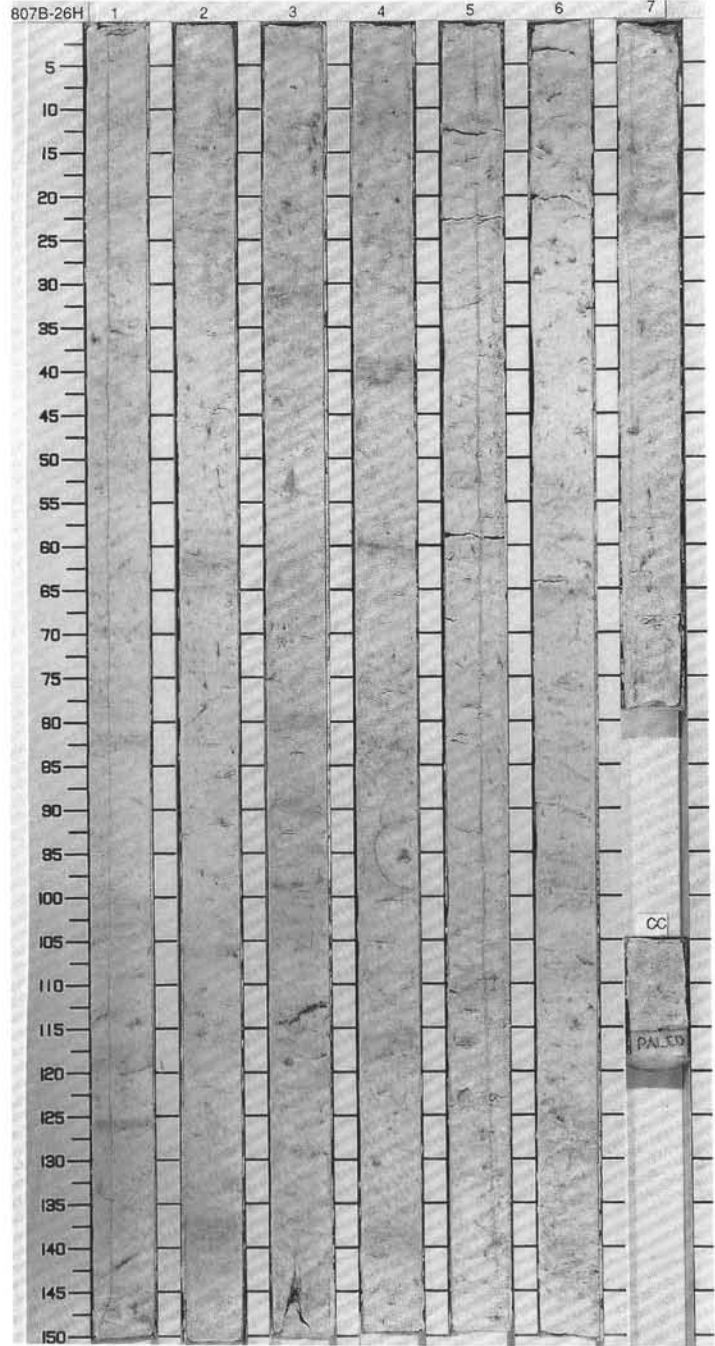


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
UPPER MIOCENE													
A/G	N16 - N17a				V-1609 0.61.3		1	0.5					<p>FORAMINIFER NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS</p> <p>Major lithology: This core contains white (2.5Y 8/0) FORAMINIFER NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS. The sediment has sub-horizontal, 1 to 2 cm thick, color bands throughout. The bands are predominantly pale purple (5P 6/2), pale green (5G 7/2) and, to a lesser extent, pale greenish gray (5G 7/1) and dark gray (2.5Y 5/0) in color. Intense bioturbation is indicated by abundant light gray (2.5Y 7/2) mottles, and pale purple halos. Some intervals (1-2 cm thick) are quite stiff to hard. A porcellanite nodule was found in Section 1, 95 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>3: 75 D</p> <p>TEXTURE:</p> <p>Sand 15 Silt 60 Clay 25</p> <p>COMPOSITION:</p> <p>Diatoms 1 Foraminifers 30 Nannofossils 65 Radiolarians Tr Siliceous fragments 3 Siliceous sponge spicules Tr</p>
A/M	NN11				V-1596 0.63.0		2	1.0					
					V-1596 0.63.0		3						
					V-1596 0.64.5		4						
					V-1616 0.64.0		5						
					V-1598 0.64.5		6						
					V-1598 0.64.5		7						
							CC						

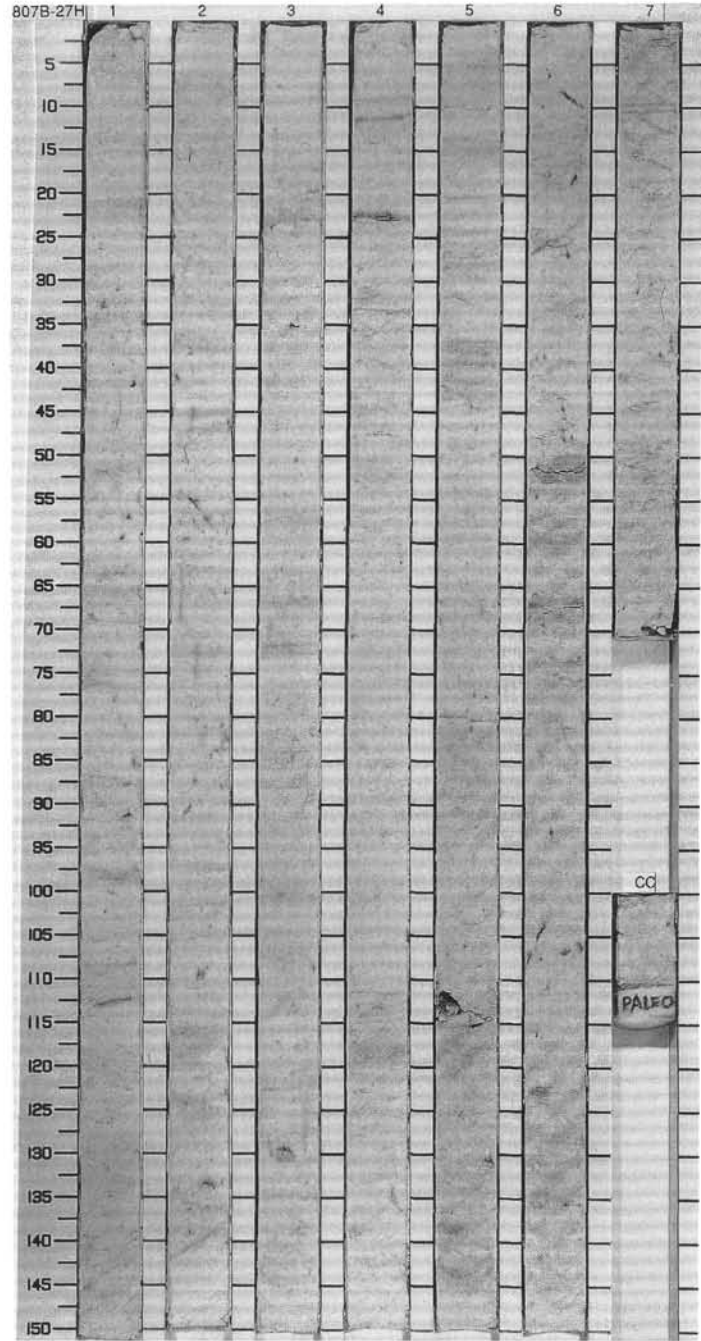


SITE 807 HOLE B CORE 26H CORED INTERVAL 231.1 -240.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAATOMS										
UPPER MIOCENE														
A/G	N16				V-1601 63.1 P-1.63			1	0.5					<p>NANNOFOSSIL OOZE with FORAMINIFERS to FORAMINIFER NANNOFOSSIL OOZE</p> <p>Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL OOZE with FORAMINIFERS to FORAMINIFER NANNOFOSSIL OOZE. Moderate to heavy bioturbation is indicated by light gray (2.5Y 7.2) mottles, pale purple (5P 6/2) halos and pyrite-filled burrows, traces, and specks. Diffuse irregular color bands, greenish gray (5G7.1) and, less commonly, pale purple in color, are observed throughout the core. Some bands are subhorizontal. Very stiff. 1 to 2 cm thick intervals are distributed irregularly (spaced at 5-15 cm intervals) throughout the core.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>3.74 D</p> <p>TEXTURE:</p> <p>Sand 15 Silt 55 Clay 30</p> <p>COMPOSITION:</p> <p>Accessory minerals 1 Diatoms Tr Foraminifers 22 Nannofossils 75 Radiolarians Tr Siliceous fragments 2</p>
A/M	NN10?				V-1583 62.9 P-1.63		2	1.0						
					V-1575 63.2 P-1.64		3							
					V-1583 63.0 P-1.63		4							
					V-1568 61.2 P-1.66		5							
							6							
							7							
							CC							

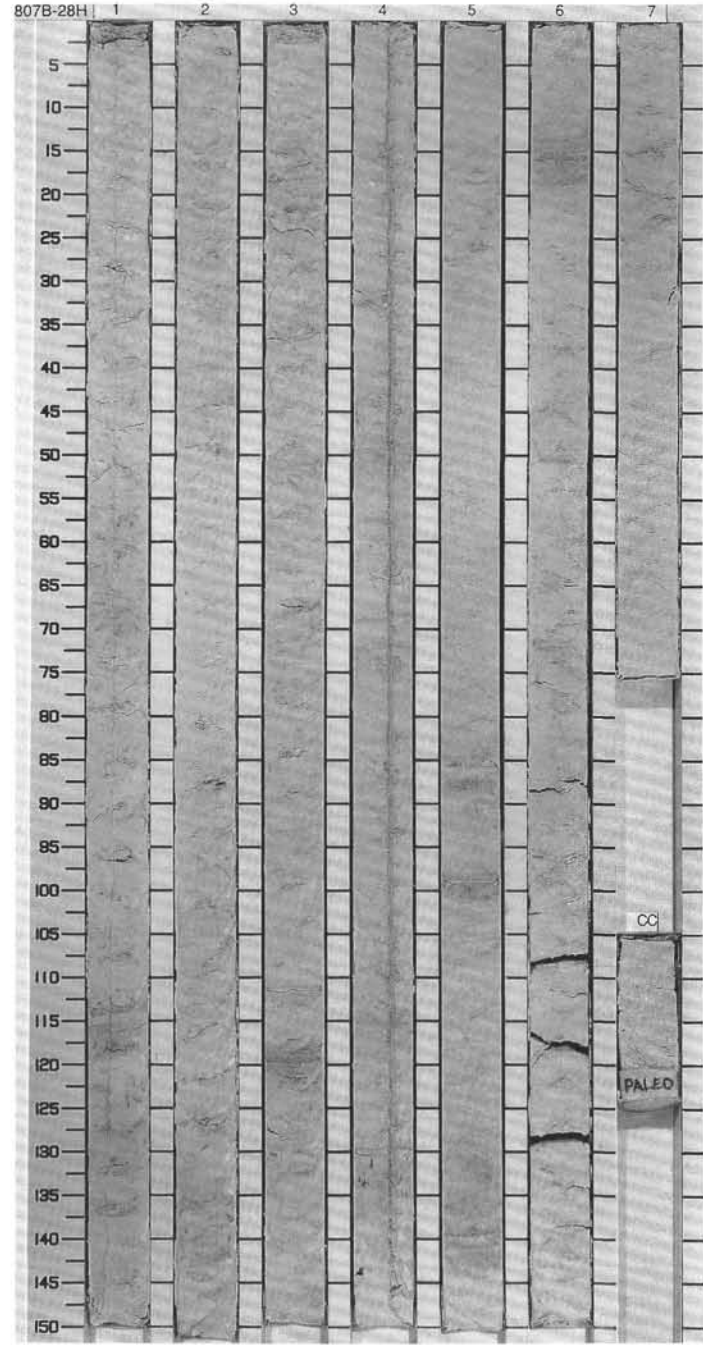


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
A/G	A/M	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
UPPER MIOCENE														
		N16						1	0.5 1.0					<p>FORAMINIFER NANNOFOSSIL OOZE</p> <p>Major lithology: This core contains white (2.5Y 8/0) FORAMINIFER NANNOFOSSIL OOZE. There are faint and distinct, 1 cm thick, greenish gray (5G 7/1) and pale purple (5P 6/2) color bands. Abundant evidence for bioturbation includes mottles, and pyrite-filled burrows. Frequent, stiff to hard 1 to 2 cm thick intervals are present every 3 to 4 cm. Microfaults are noted in Sections 4 and 5.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">2.75 D</p> <p>TEXTURE</p> <p style="margin-left: 40px;">Sand 20 Silt 60 Clay 20</p> <p>COMPOSITION</p> <p style="margin-left: 40px;">Diatoms Tr Foraminifers 30 Nannofossils 70 Radiolarians Tr</p>
		NN10					2							
							3							
							4							
							5							
							6							
							7							

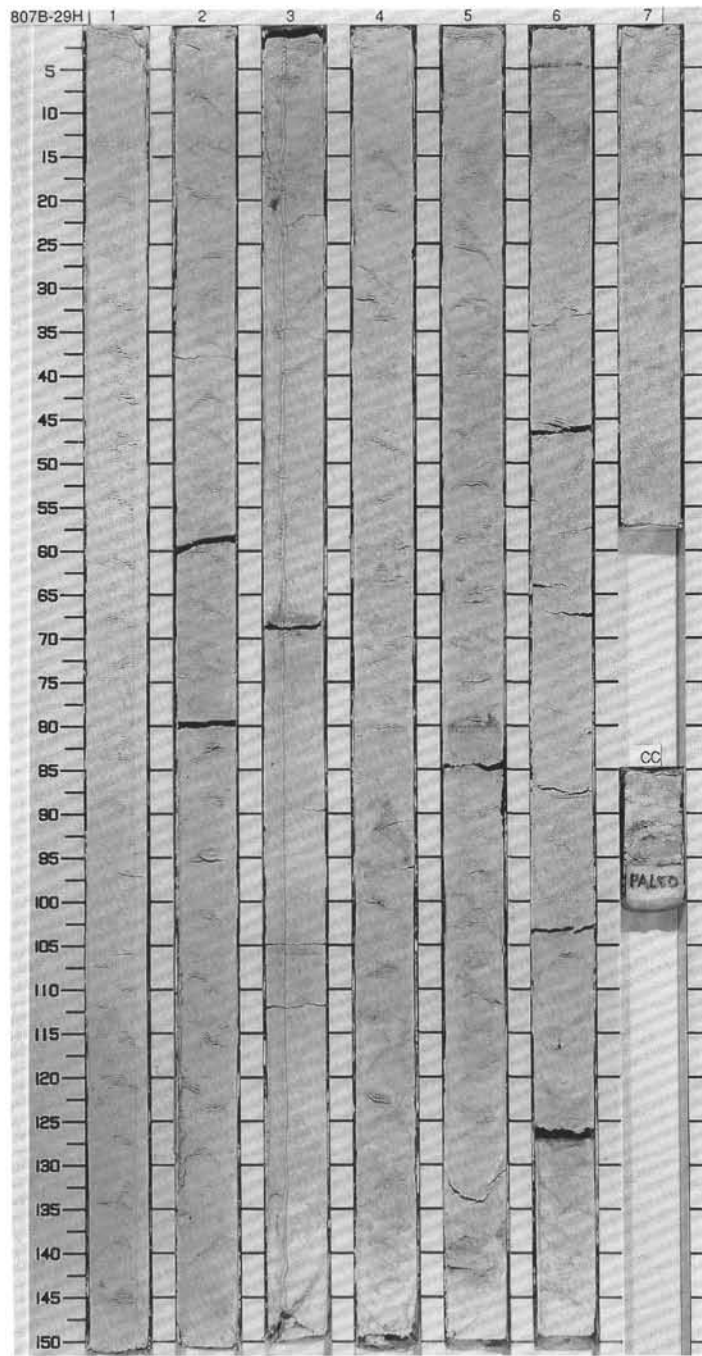


SITE 807 HOLE B CORE 28H CORED INTERVAL 250.1-259.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS								
UPPER MIOCENE												
A/G	N16				V-1609 65.7 251.67	1						<p>FORAMINIFER NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS</p> <p>Major lithology: This core contains white (2.5Y 8/0) FORAMINIFER NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with FORAMINIFERS. The ooze is very stiff in numerous, 2 to 4 cm thick intervals. Some of the stiff intervals contain consolidated nodules. Color bands are present but very faint. The bands are 1 to 2 cm thick and vary from pale purple (5P 6/2) to pale green (5G 7/2) in color. Bioturbation structures include light gray (2.5Y 7/2) mottles, and pale purple halos.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="padding-left: 40px;">3.75 D</p> <p>TEXTURE:</p> <p>Sand 5 Silt 80 Clay 15</p> <p>COMPOSITION:</p> <p>Diatoms 2 Foraminifers 25 Nannofossils 69 Radiolarians 1 Siliceous fragments 3 Siliceous sponge spicules Tr</p>
A/M	NN10				V-1609 65.7 251.67	1						
					V-1583 65.3 251.63	2						
					V-1583 65.3 251.63	2						
					V-1583 65.3 251.63	3						
					V-1583 65.3 251.63	4						
					V-1583 65.3 251.63	5						
					V-1572 61.5 251.65	6						
					V-1616 65.3 251.63	7						
						CC						

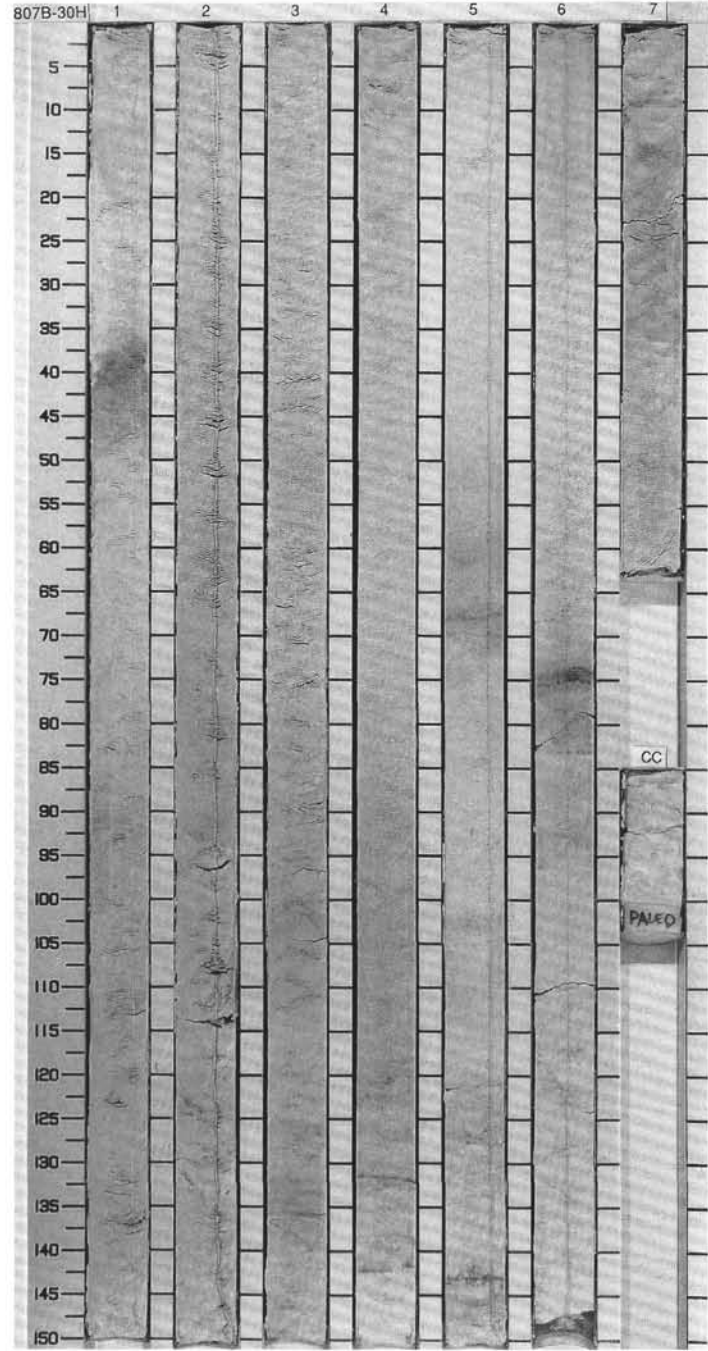


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																						
FORAMINIFERS	NANNOFOSSILS												RADIOLARIANS	DIATOMS																				
UPPER MIOCENE												<p>NANNOFOSSIL OOZE with FORAMINIFERS and NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains 60% NANNOFOSSIL OOZE with FORAMINIFERS and 40% NANNOFOSSIL CHALK with FORAMINIFERS, both of white (2 5Y 8/0) color. Slightly to moderately fractured drilling "biscuits" are embedded in a stiff ooze matrix. The sediment is slightly to moderately bioturbated and relatively uniform in appearance. Minor pale blue (5PB 7/2), light greenish gray (5G 7/1), and pale purple (5P 6/2) color bands are present and become more abundant from Section 5 through the Core Catcher.</p> <p>SMEAR SLIDE SUMMARY (%)</p> <table style="margin-left: 40px;"> <tr><td>Sand</td><td>3</td></tr> <tr><td>Silt</td><td>84</td></tr> <tr><td>Clay</td><td>D</td></tr> </table> <p>TEXTURE:</p> <table style="margin-left: 40px;"> <tr><td>Sand</td><td>20</td></tr> <tr><td>Silt</td><td>75</td></tr> <tr><td>Clay</td><td>5</td></tr> </table> <p>COMPOSITION:</p> <table style="margin-left: 40px;"> <tr><td>Foraminifers</td><td>12</td></tr> <tr><td>Nannofossils</td><td>83</td></tr> <tr><td>Radiolarians</td><td>2</td></tr> <tr><td>Siliceous fragments</td><td>Tr</td></tr> <tr><td>Siliceous sponge spicules</td><td>Tr</td></tr> </table>	Sand	3	Silt	84	Clay	D	Sand	20	Silt	75	Clay	5	Foraminifers	12	Nannofossils	83	Radiolarians	2	Siliceous fragments	Tr	Siliceous sponge spicules	Tr
Sand	3																																	
Silt	84																																	
Clay	D																																	
Sand	20																																	
Silt	75																																	
Clay	5																																	
Foraminifers	12																																	
Nannofossils	83																																	
Radiolarians	2																																	
Siliceous fragments	Tr																																	
Siliceous sponge spicules	Tr																																	
A/G	N16			V-1613 @ 259.603		0.5																												
A/M	NN10			V-1594 @ 261.7		1.0																												
				V-1632 @ 260.5																														
				V-1594 @ 261.53		2																												
				V-1613 @ 262.3		3																												
				V-1613 @ 261.34		4																												
						5																												
						6																												
						7																												
						CC																												



SITE 807 HOLE B CORE 30H CORED INTERVAL 269.1-278.6 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 MIOCENE									
A/G	N15				V-1594 60.56.2 P-1.71	0.5 1.0			<p>NANNOFOSSIL OOZE with FORAMINIFERS and NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains slightly to moderately bioturbated, white (2.5Y 8/0) to pale purple (5Y 6/2) and pale pink (5RP 8/2) NANNOFOSSIL OOZE with FORAMINIFERS (60%) and NANNOFOSSIL CHALK with FORAMINIFERS (40%). The sediment ranges from uniformly stiff ooze to moderately fractured biscuits. Faint pale purple (5P 6/2), grayish blue (5PB 5/2), light gray (N7), and light greenish gray (5G 7/1) color bands are present and locally abundant. A color band at Section 4, 140 cm is microfaulted.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">3.80 D</p> <p>TEXTURE:</p> <p>Sand 20 Silt 75 Clay 5</p> <p>COMPOSITION:</p> <p>Foraminifers 15 Nannofossils 80 Quartz Tr Radiolarians 2 Siliceous fragments Tr Siliceous sponge spicules Tr</p>
A/P	NN10				V-1585 60.62.6 P-1.85	2			
					V-1620 61.5 P-1.68	3	*		
					V-1609 60.3 P-1.69	4			
						5			
						6			
						7			

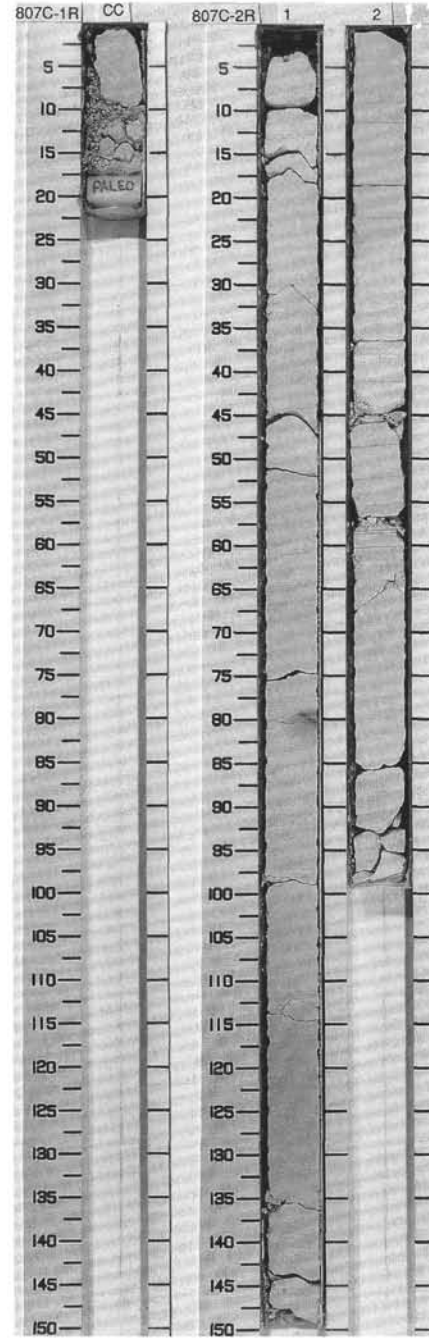


SITE 807 HOLE C CORE 1R CORED INTERVAL 780.0-789.7 mbsf

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 OLIGOCENE	A/M	A/M					CC					*	<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains slightly bioturbated, highly fragmented, white (2.5Y 8/0) NANNOFOSSIL CHALK with FORAMINIFERS.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>CC: 6 D</p> <p>TEXTURE:</p> <p>Sand 20 Silt 75 Clay 5</p> <p>COMPOSITION:</p> <p>Foraminifers 12 Nannofossils 80 Quartz Tr Radiolarians 3 Silicoflagellates Tr</p>
	P19	NP23											
		<i>Dorcadospyris atouchus</i> A/M											
		<i>Rocella vigilans</i> A/M											

SITE 807 HOLE C CORE 2R CORED INTERVAL 789.7-799.3 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
LOWER OLIGOCENE	A/M	A/M					1 2	0.5 1.0				*	<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains heavily bioturbated, white (2.5Y 8/0) to pale pink (5RP 8/2) NANNOFOSSIL CHALK with FORAMINIFERS. A well-developed <i>Zoophycos</i> trace fossil is present in Section 1, 110-130 cm. Gray (N4) microstylolites are common below Section 2, 30 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>2.39 D</p> <p>TEXTURE:</p> <p>Sand 20 Silt 75 Clay 5</p> <p>COMPOSITION:</p> <p>Foraminifers 15 Nannofossils 82 Quartz Tr Radiolarians 3 Silicoflagellates Tr</p>
	P19	NP23											
		<i>Dorcadospyris atouchus</i> / <i>Theocoelyle tuberosa</i>											
		<i>Rocella vigilans</i> ?											

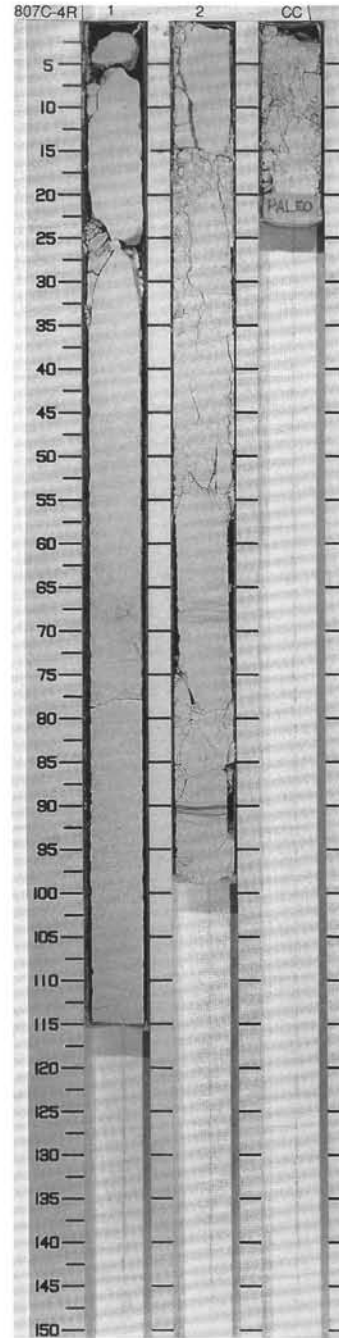


SITE 807 HOLE C CORE 3R CORED INTERVAL 799.3-809.0 mbsf

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										
LOWER OLIGOCENE	A/M	P19												THE ENTIRE CORE CATCHER (3 cm) WAS USED FOR PALEONTOLOGICAL ANALYSIS.
	A/M	NP23												
	A/M	<i>Theocotyle tuberosa</i>												
	C/M	<i>Rocella vigilans?</i>												

SITE 807 HOLE C CORE 4R CORED INTERVAL 809.0-818.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																														
LOWER OLIGOCENE	C/P	P19				V-1857 0.520 2.1.82	%CaCO ₃ =95.0	1	0.5					<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology. This core contains heavily to moderately bioturbated, white (2.5Y 8/0) NANNOFOSSIL CHALK with FORAMINIFERS. Diffuse and discontinuous, wavy, light gray (N7) color bands (<1 mm thick) are observed in Section 1. Gray (N6) microstylolites are common in Section 2.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td>OG</td> <td>2.60</td> </tr> <tr> <td>TW</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>20</td> </tr> <tr> <td>Silt</td> <td>70</td> </tr> <tr> <td>Clay</td> <td>5</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Foraminifers</td> <td>15</td> </tr> <tr> <td>Nannofossils</td> <td>80</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> </tr> <tr> <td>Radiolarians</td> <td>3</td> </tr> <tr> <td>Silicoflagellates</td> <td>Tr</td> </tr> </table>	OG	2.60	TW	D	Sand	20	Silt	70	Clay	5	Foraminifers	15	Nannofossils	80	Quartz	Tr	Radiolarians	3	Silicoflagellates	Tr
OG	2.60																																	
TW	D																																	
Sand	20																																	
Silt	70																																	
Clay	5																																	
Foraminifers	15																																	
Nannofossils	80																																	
Quartz	Tr																																	
Radiolarians	3																																	
Silicoflagellates	Tr																																	
	A/M	NP23				%CaCO ₃ =80.5	2	1.0																										
	A/M	<i>Theocotyle tuberosa</i>																																
	C/M	<i>Rocella vigilans?</i>																																

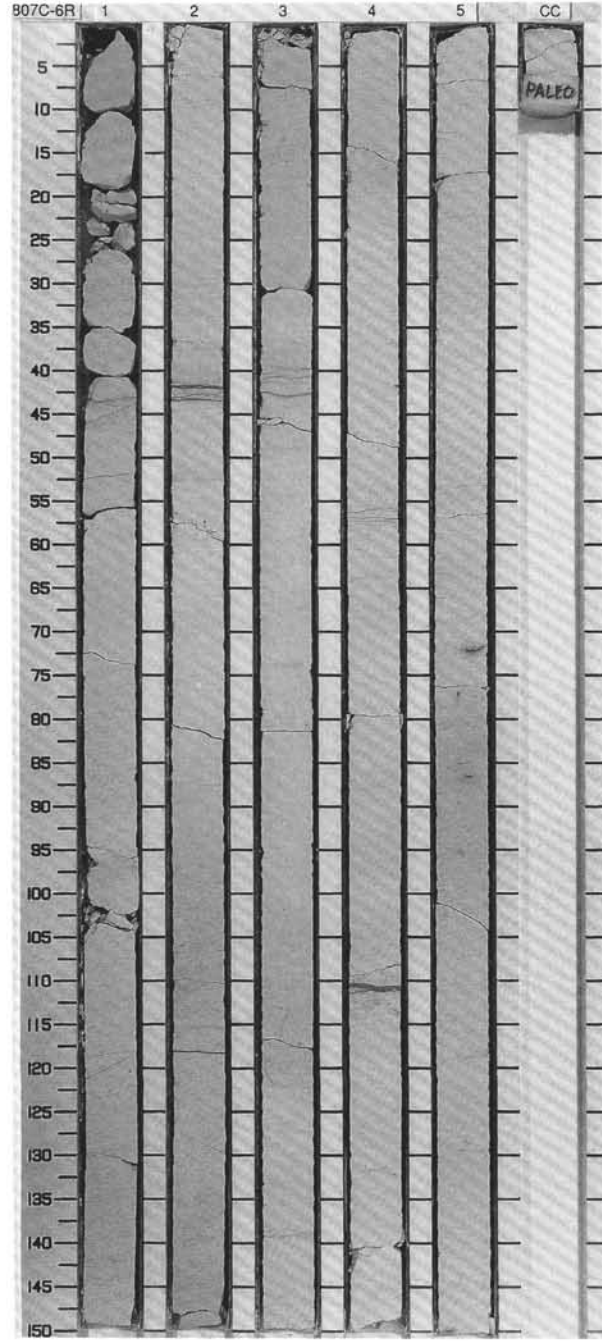


SITE 807 HOLE C CORE 5R CORED INTERVAL 818.6-828.3 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
LOWER OLIGOCENE														
A/M	PT9													THE ENTIRE CORE CATCHER (2 cm) WAS USED FOR PALEONTOLOGICAL ANALYSIS.
A/M	NP23													
A/M	<i>Coscinodiscus excavatus</i>													

SITE 807 HOLE C CORE 6R CORED INTERVAL 828.3-838.0 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS		SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONES	PHYS. PROPERTIES	CHEMISTRY							
LOWER OLILOCENE												
A/M	P19	NP23										
A/M		<i>Theocoliyle tuberosa</i>										
A/G		<i>Cosc.nodiscus excavatus</i>										
A/M-G												
V-1886	0.35	V-1872	0.55.0	V-1864	0.53.2	V-1915	0.54.2	V-1799	0.55.0	V-1777	0.55.0	
	1.80		1.78		1.80		1.79		1.77		1.77	
	%CaCO ₃ =93.0		%CaCO ₃ =94.5		%CaCO ₃ =92.7		%CaCO ₃ =94.5		%CaCO ₃ =94.5		%CaCO ₃ =94.9	
<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains white (2.5Y 8/0) to pale purple (5P 6/2) and grayish blue (5PB 5/2) NANNOFOSSIL CHALK with FORAMINIFERS. The entire core is moderately to heavily bioturbated. Intervals of discontinuous, thin (< 1 mm thick), gray (N5) "incipient" microstylolites/flaser structures are common throughout the core. Well-developed, 1 mm to 1 cm thick, gray (N4) stylolites are present in Sections 1 through 4.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>TEXTURE:</p> <p>Sand 25 Silt 70 Clay 5</p> <p>COMPOSITION:</p> <p>Foraminifers 20 Nannofossils 75 Quartz Tr Radiolarians 3 Silicoflagellates Tr</p>												

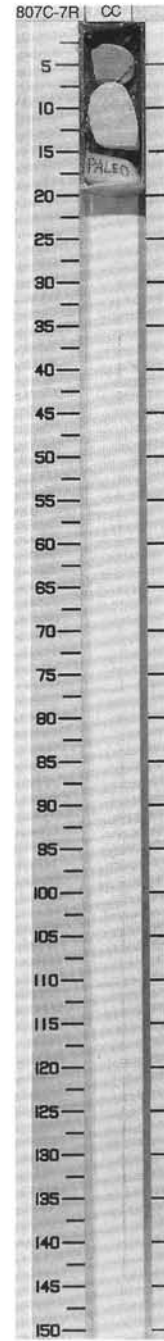


SITE 807 HOLE C CORE 7R CORED INTERVAL 838.0-847.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
LOWER OLIGOCENE	A/M	A/M												
	P19	NP23												
			<i>Theocotyle tuberosa</i>											
			<i>Coccolithus excavatus</i>											
<p>• NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains white (2.5Y 8/0), highly fragmented NANNOFOSSIL CHALK with FORAMINIFERS.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">CC. 5 D</p> <p>TEXTURE:</p> <p>Sand 20 Silt 75 Clay 5</p> <p>COMPOSITION:</p> <p>Foraminifers 20 Nannofossils 75 Quartz Tr Radiolarians 2 Silicoflagellates Tr</p>														

SITE 807 HOLE C CORE 8R CORED INTERVAL 847.7-857.4 mbsf

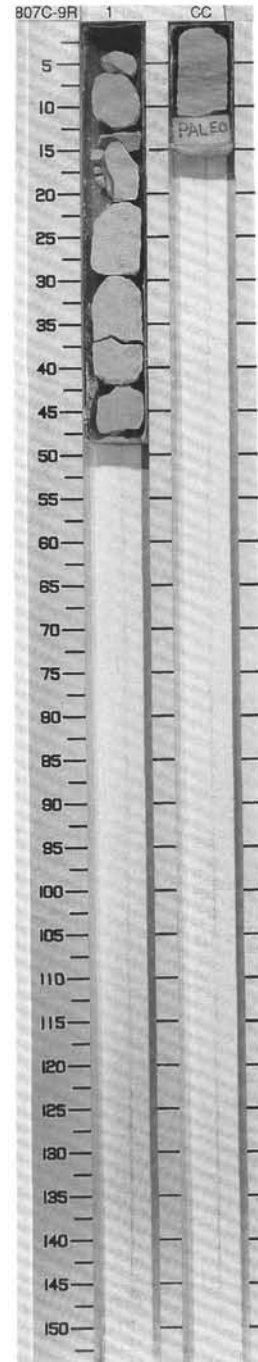
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
LOWER OLIGOCENE	C/M	A/M	A/M	A/M										
	P19	NP23												
			<i>Theocotyle tuberosa</i>											
			<i>Coccolithus excavatus</i>											
<p>THE ENTIRE CORE CATCHER (1 cm) WAS USED FOR PALEONTOLOGICAL ANALYSIS.</p>														



TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DITOMS									
LOWER OLILOCENE		P19 A/M	NP22 A/M		9-33.2 -91.7		1					<p>NANNOFOSSIL CHALK</p> <p>Major lithology: This core contains moderately to heavily bioturbated, white (2.5Y 8/0) to light greenish gray (5G 7/1) NANNOFOSSIL CHALK. Thin (< 1 mm thick) light greenish gray (5G 7/1) flaser structures are common in the lower portion of Section 1 and throughout the CC.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">1, 32 D</p> <p>TEXTURE:</p> <p>Sand 7 Silt 90 Clay 3</p> <p>COMPOSITION:</p> <p>Foraminifers 9 Nannofossils 88 Quartz Tr Radiolarians 3 Silicoflagellates Tr</p>

807 C 10R NO RECOVERY

807 C 11R NO RECOVERY

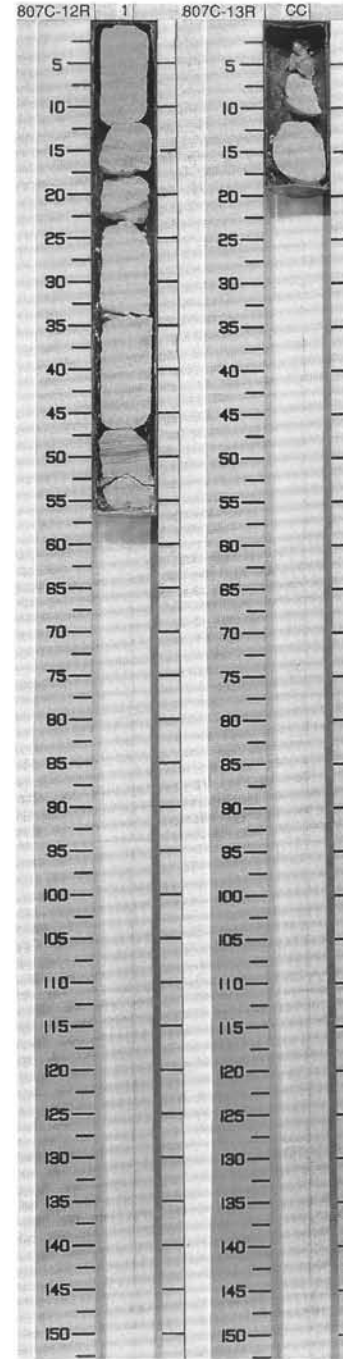


SITE 807 HOLE C CORE 12R CORED INTERVAL 876.6-881.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																													
LOWER OLILOCENE	C/M	A/M	A/M	A/M				1					<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL CHALK with FORAMINIFERS. Heavy bioturbation is evident from faint mottles, burrows and disseminated pyrite specks. Ultra thin (<<1 mm) wavy and braided color bands are present throughout the core.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr><td>1</td><td>30</td></tr> <tr><td>D</td><td></td></tr> </table> <p>TEXTURE:</p> <table border="0"> <tr><td>Sand</td><td>8</td></tr> <tr><td>Silt</td><td>80</td></tr> <tr><td>Clay</td><td>12</td></tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr><td>Diatoms</td><td>Tr</td></tr> <tr><td>Foraminifers</td><td>12</td></tr> <tr><td>Nannofossils</td><td>87</td></tr> <tr><td>Radiolarians</td><td>Tr</td></tr> <tr><td>Siliceous fragments</td><td>Tr</td></tr> </table>	1	30	D		Sand	8	Silt	80	Clay	12	Diatoms	Tr	Foraminifers	12	Nannofossils	87	Radiolarians	Tr	Siliceous fragments	Tr
1	30																																
D																																	
Sand	8																																
Silt	80																																
Clay	12																																
Diatoms	Tr																																
Foraminifers	12																																
Nannofossils	87																																
Radiolarians	Tr																																
Siliceous fragments	Tr																																

SITE 807 HOLE C CORE 13R CORED INTERVAL 881.9-888.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																		
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																											
LOWER OLILOCENE	C/M	A/P	A/M	A/M				CC					<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains bioturbated, white (2.5Y 8/0) NANNOFOSSIL CHALK with FORAMINIFERS. A few specks of an opaque mineral are scattered over the few chert nodules in the core.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr><td>1</td><td>9</td></tr> <tr><td>D</td><td></td></tr> </table> <p>TEXTURE:</p> <table border="0"> <tr><td>Sand</td><td>5</td></tr> <tr><td>Silt</td><td>60</td></tr> <tr><td>Clay</td><td>35</td></tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr><td>Accessory minerals</td><td>1</td></tr> <tr><td>Foraminifers</td><td>20</td></tr> <tr><td>Nannofossils</td><td>78</td></tr> <tr><td>Siliceous fragments</td><td>1</td></tr> </table>	1	9	D		Sand	5	Silt	60	Clay	35	Accessory minerals	1	Foraminifers	20	Nannofossils	78	Siliceous fragments	1
1	9																														
D																															
Sand	5																														
Silt	60																														
Clay	35																														
Accessory minerals	1																														
Foraminifers	20																														
Nannofossils	78																														
Siliceous fragments	1																														

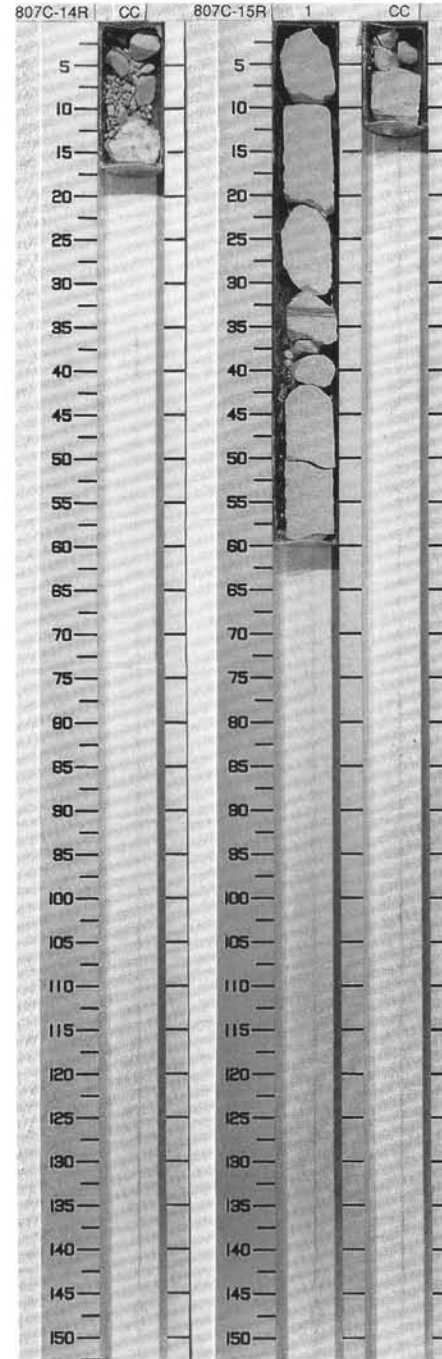


SITE 807 HOLE C CORE 14R CORED INTERVAL 888.9-893.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																		
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																											
LOWER OLIGOCENE	P18	C/M	A/P					CC			X	*	<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains bioturbated white (2.5Y 8/0) NANNOFOSSIL CHALK with FORAMINIFERS. A few specks of an opaque mineral are scattered over the low chert nodules in the core.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>CC. 5</td> </tr> <tr> <td></td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>8</td> </tr> <tr> <td>Silt</td> <td>65</td> </tr> <tr> <td>Clay</td> <td>27</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Accessory minerals</td> <td>1</td> </tr> <tr> <td>Foraminifers</td> <td>18</td> </tr> <tr> <td>Nannofossils</td> <td>80</td> </tr> <tr> <td>Siliceous fragments</td> <td>1</td> </tr> </table>		CC. 5		D	Sand	8	Silt	65	Clay	27	Accessory minerals	1	Foraminifers	18	Nannofossils	80	Siliceous fragments	1
	CC. 5																														
	D																														
Sand	8																														
Silt	65																														
Clay	27																														
Accessory minerals	1																														
Foraminifers	18																														
Nannofossils	80																														
Siliceous fragments	1																														

SITE 807 HOLE C CORE 15R CORED INTERVAL 893.9-898.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
LOWER OLIGOCENE	P18	A/M	A/M					1	0.5				<p>NANNOFOSSIL CHALK</p> <p>Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL CHALK. Moderate to heavy bioturbation is evident from burrows and abundant trace fossils that appear compacted. One thin zone (1 cm thick) of braided, ultra-thin, light olive gray (5Y 6/2) color bands is present in Section 1, 34 cm. Stylolites are noted throughout the core.</p>

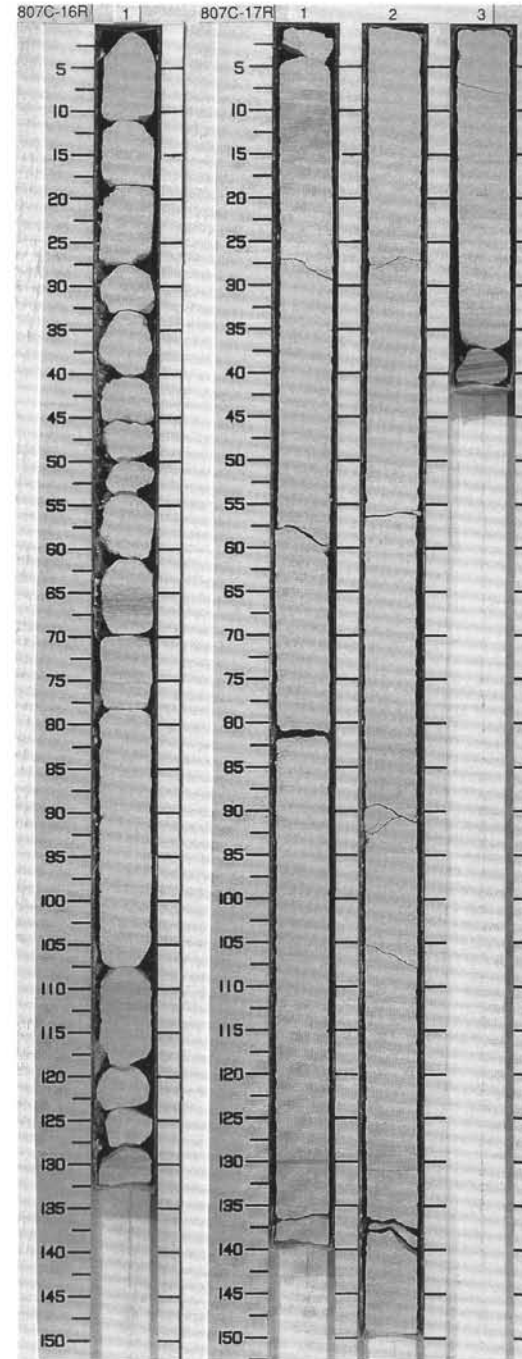


SITE 807 HOLE C CORE 16R CORED INTERVAL 898.9-903.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
LOWERMOST OLIGOCENE	F/P	P18?					1	0.5 1.0					<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL CHALK with FORAMINIFERS. Numerous ultra-thin, braided, light olive gray (5Y 6/2) color bands/stylolites are located in Section 1 at 65-78 cm and 109-115 cm. Heavy bioturbation is indicated by trace fossils that appear to have been compacted.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>1.85 D</p> <p>TEXTURE:</p> <p>Sand 3 Silt 75 Clay 22</p> <p>COMPOSITION:</p> <p>Foraminifers 10 Nannofossils 89 Radiolarians Tr Siliceous fragments 1 Siliceous sponge spicules Tr</p>
	A/P	NP21											
	A/M												
	A/M-G												

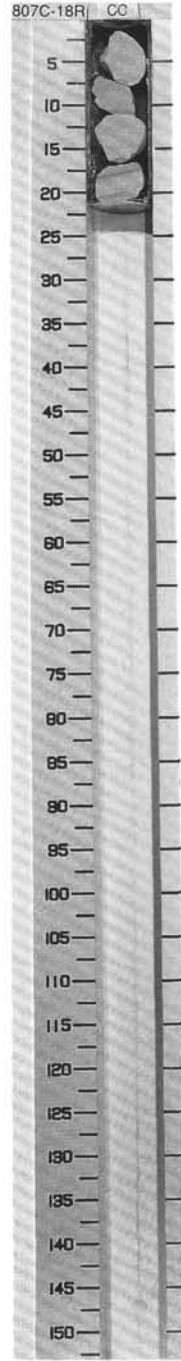
SITE 807 HOLE C CORE 17R CORED INTERVAL 903.9-908.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
LOWERMOST OLIGOCENE	P18?	NP21					1	0.5 1.0					<p>NANNOFOSSIL CHALK with FORAMINIFERS to FORAMINIFER NANNOFOSSIL CHALK</p> <p>Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL CHALK with FORAMINIFERS to FORAMINIFER NANNOFOSSIL CHALK. There are several 5 to 10 cm thick zones of braided, light olive gray (5Y 6/2) color bands. Several gray bands are very distinct. Bioturbation structures are common and include mottles and trace fossils. The lowermost part of the core contains abundant faint, pale purple (5P 6/2) to greenish gray (5G 6/1) color bands. The base of the core has a 5 cm thick interval of very distinct, thin (<<1 mm), horizontal, straight color bands.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>2.75 D</p> <p>TEXTURE:</p> <p>Sand 10 Silt 80 Clay 10</p> <p>COMPOSITION:</p> <p>Diatoms Tr Foraminifers 25 Nannofossils 69 Radiolarians 1 Siliceous fragments 4 Siliceous sponge spicules Tr</p>
	A												
	A/M												
	C-A/G												

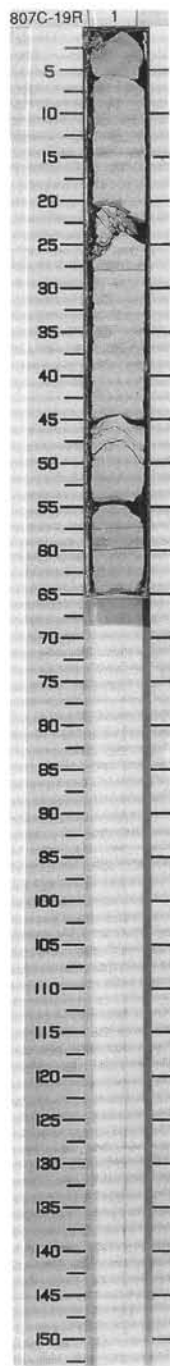


SITE 807 HOLE C CORE 18R CORED INTERVAL 908.9-913.9 mbsf

TIME-ROCK UNIT UPPER EOCENE	BIOSTRAT. ZONE/ FOSSIL CHARACTER	LITHOLOGIC DESCRIPTION	
	FORAMINIFERS	C/M	* NANNOFOSSIL CHALK with FORAMINIFERS Major lithology: This core contains white (2.5Y 8/0), moderately bioturbated NANNOFOSSIL CHALK with FORAMINIFERS. Gray (N6) microstylolites and flaser structures are common. SMEAR SLIDE SUMMARY (%): CC. 10 D TEXTURE: Sand 15 Silt 81 Clay 4 COMPOSITION: Foraminifers 15 Nannofossils 83 Radiolarians 1 Siliceous sponge spicules 1
	NANNOFOSSILS	A	
	RADIOLARIANS	A/G	
DIATOMS	C-A/M-G		
PALEOMAGNETICS			
PHYS. PROPERTIES	0-19.5 -87.5		
CHEMISTRY			
SECTION	CC		
METERS			
GRAPHIC LITHOLOGY			
DRILLING DISTURB			
SED. STRUCTURES			
SAMPLES			

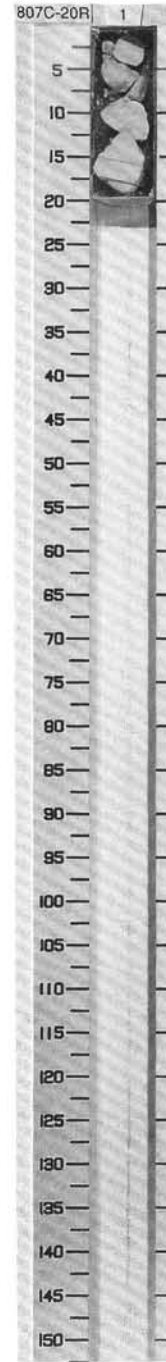


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
UPPER EOCENE	P17	A/M					1	0.5				*	<p>NANNOFOSSIL CHALK</p> <p>Major lithology: This core contains white (2.5Y 8/0), moderately bioturbated NANNOFOSSIL CHALK. Gray (N6) microstylolites and color bands with flaser structures are common.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">1.30 D</p> <p>TEXTURE:</p> <p>Sand 10 Silt 85 Clay 5</p> <p>COMPOSITION:</p> <p>Diatoms 1 Foraminifers 5 Nannofossils 87 Radiolarians 3 Siliceous sponge spicules 2 Silicoflagellates 2</p>
	upper <i>Thyrosocyrtis bromia</i> NP19 - NP20	A/P											
	<i>Cryptopora ornata</i>	A/M											
	<i>Bakteriopsis brunii</i>	C-A/M											

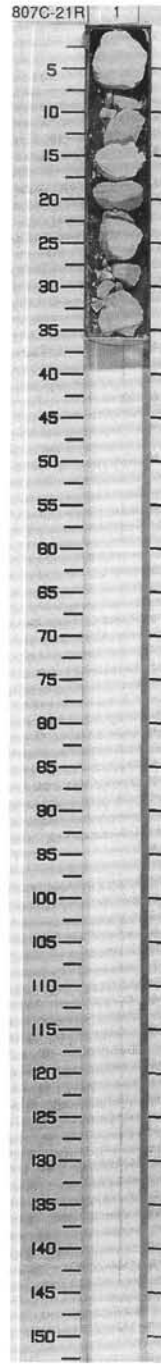


SITE 807 HOLE C CORE 20R CORED INTERVAL 918.9-923.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																		
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																												
UPPER EOCENE	P17	A/M						1					*	<p>NANNOFOSSIL CHALK</p> <p>Major lithology: This core contains white (2.5Y 8/0), moderately bioturbated NANNOFOSSIL CHALK. Styloites are present in Section 1 at 12-15 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table> <tr><td>1. 10</td></tr> <tr><td>D</td></tr> </table> <p>TEXTURE:</p> <table> <tr><td>Sand</td><td>10</td></tr> <tr><td>Silt</td><td>8</td></tr> <tr><td>Clay</td><td>5</td></tr> </table> <p>COMPOSITION:</p> <table> <tr><td>Diatoms</td><td>1</td></tr> <tr><td>Foraminifers</td><td>8</td></tr> <tr><td>Nannofossils</td><td>87</td></tr> <tr><td>Radiolarians</td><td>2</td></tr> <tr><td>Siliceous sponge spicules</td><td>2</td></tr> </table>	1. 10	D	Sand	10	Silt	8	Clay	5	Diatoms	1	Foraminifers	8	Nannofossils	87	Radiolarians	2	Siliceous sponge spicules	2
1. 10																																
D																																
Sand	10																															
Silt	8																															
Clay	5																															
Diatoms	1																															
Foraminifers	8																															
Nannofossils	87																															
Radiolarians	2																															
Siliceous sponge spicules	2																															

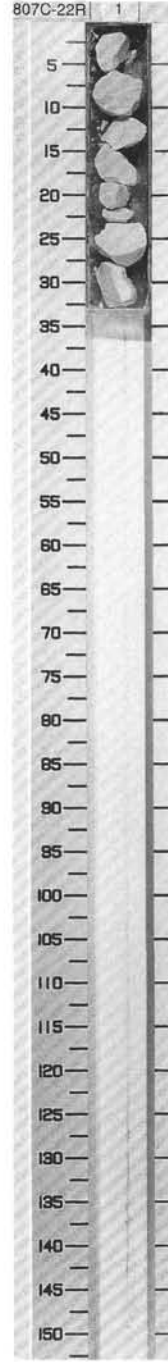


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS									
UPPER EOCENE	P16 - P17	A/M										<p>NANNOFOSSIL CHALK</p> <p>Major lithology: This core contains white (2.5Y 8/0), moderately bioturbated NANNOFOSSIL CHALK. A gray (N6) color band with laser structure is noted at 17-20 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">1,20 D</p> <p>TEXTURE:</p> <p>Sand 10 Silt 86 Clay 4</p> <p>COMPOSITION:</p> <p>Diatoms 1 Foraminifers 7 Nannofossils 82 Radiolarians 5 Siliceous sponge spicules 3 Silicoflagellates 2</p>
	NP19 - NP20	A/P		V-1838	0-4.0 2.0-3.0 4.0-5.0	49.0 49.0	1					
	Cryptopora ornata [upper Thyrocyrtis bromia] A/M											
	Baxteriopsis brunii C/P-M											



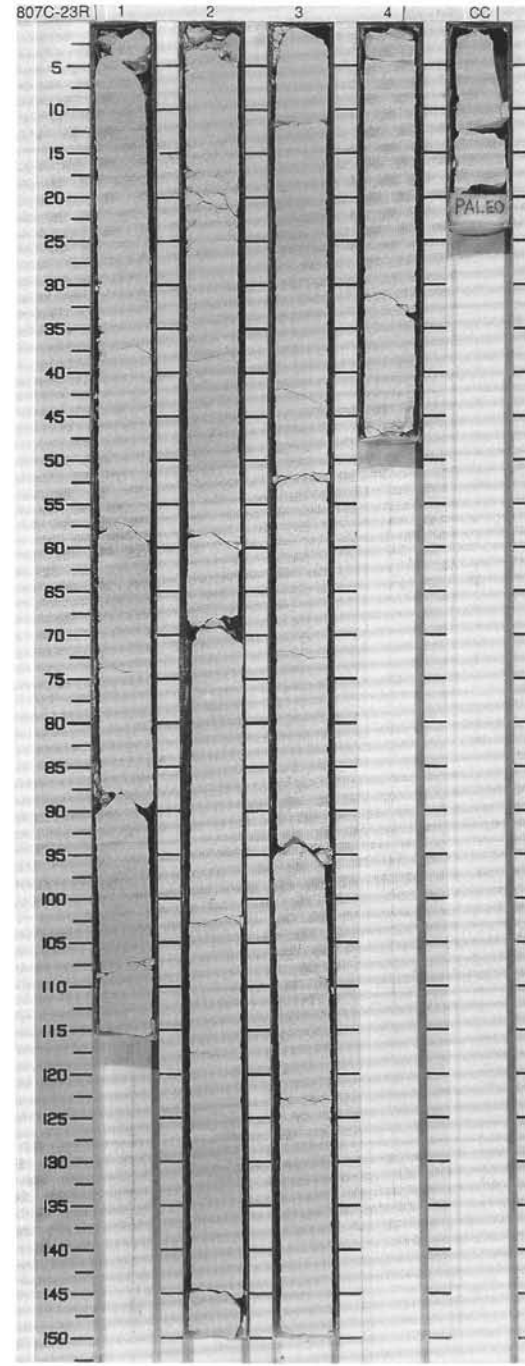
SITE 807 HOLE C CORE 22R CORED INTERVAL 933.7-938.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS									
UPPER EOCENE	P14 - P17	C/P					1				*	<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL CHALK with FORAMINIFERS. Moderate to heavy bioturbation is indicated by mottling and mm scale pyrite-filled burrows.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">1, 19 D</p> <p>TEXTURE:</p> <p>Sand 15 Silt 81 Clay 4</p> <p>COMPOSITION:</p> <p>Diatoms 1 Foraminifers 10 Nannofossils 78 Radiolarians 4 Siliceous sponge spicules 5 Silicoflagellates 2</p>
	NP17 - NP19	A/P										
	<i>Cryptopora ornata</i>		=upper <i>Thyrosocyrtis bromia</i>									
			<i>Asterolampira marylandica?</i>									
			F-C/P-M									



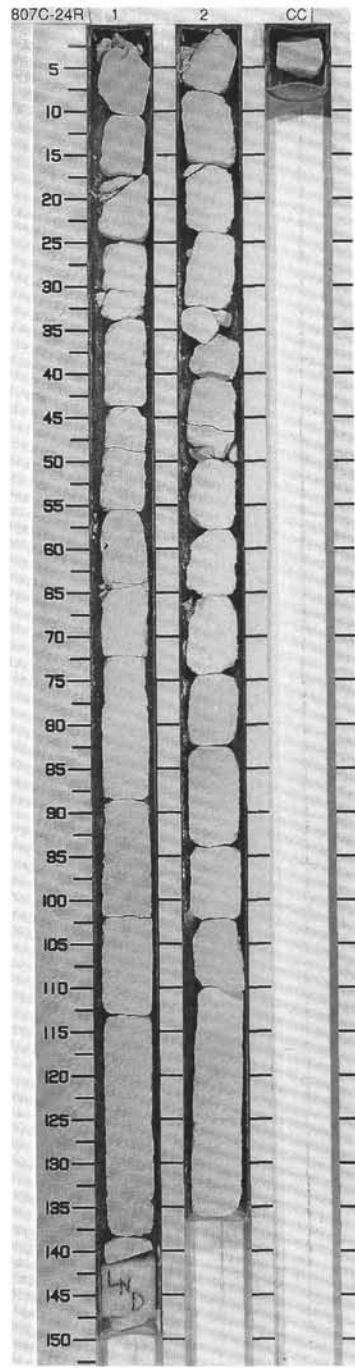
SITE 807 HOLE C CORE 23R CORED INTERVAL 938.7-943.7 mbsf

TIME - ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																						
FORAMINIFERS	NANNOFOSSILS												RADIOLARIANS	DIATOMS																				
UPPER EOCENE																																		
C/M	P15 - P17											<p>NANNOFOSSIL CHALK</p> <p>Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL CHALK. It is moderately to heavily bioturbated with mm to cm scale, generally horizontal and compacted burrows.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table> <tr> <td>OG</td> <td>1.58</td> </tr> <tr> <td>D</td> <td></td> </tr> </table> <p>TEXTURE:</p> <table> <tr> <td>Sand</td> <td>10</td> </tr> <tr> <td>Silt</td> <td>86</td> </tr> <tr> <td>Clay</td> <td>4</td> </tr> </table> <p>COMPOSITION:</p> <table> <tr> <td>Diatoms</td> <td>1</td> </tr> <tr> <td>Foraminifers</td> <td>8</td> </tr> <tr> <td>Nannofossils</td> <td>80</td> </tr> <tr> <td>Radiolarians</td> <td>4</td> </tr> <tr> <td>Siliceous sponge spicules</td> <td>6</td> </tr> <tr> <td>Silicoflagellates</td> <td>1</td> </tr> </table>	OG	1.58	D		Sand	10	Silt	86	Clay	4	Diatoms	1	Foraminifers	8	Nannofossils	80	Radiolarians	4	Siliceous sponge spicules	6	Silicoflagellates	1
OG	1.58																																	
D																																		
Sand	10																																	
Silt	86																																	
Clay	4																																	
Diatoms	1																																	
Foraminifers	8																																	
Nannofossils	80																																	
Radiolarians	4																																	
Siliceous sponge spicules	6																																	
Silicoflagellates	1																																	
A/P	NP17 - NP19																																	
A/P	<i>C. bandyca</i> [=middle <i>Thyrosocyrtis bandyca</i>]																																	
F-C/P-M																																		

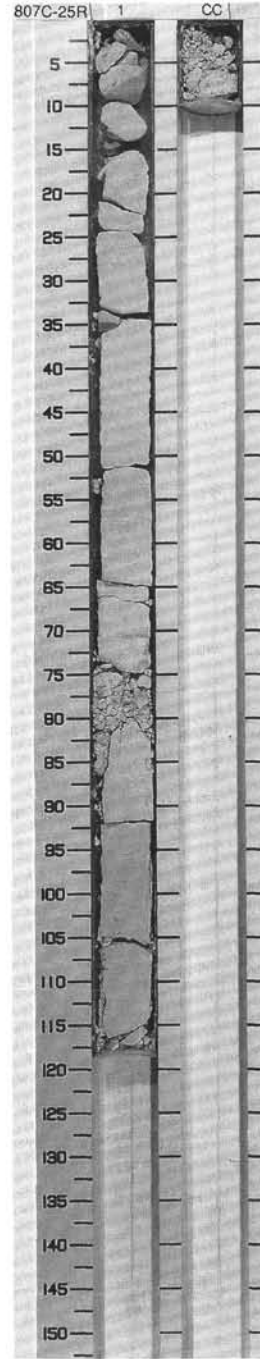


SITE 807 HOLE C CORE 24R CORED INTERVAL 943.7-948.4 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	FORAMINIFERS	NANNOFOSSILS	RADICLIARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																						
UPPER EOCENE		F/M	P15 - P17	A/P	NP17 - NP19				1	0.5					<p>NANNOFOSSIL CHALK</p> <p>Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL CHALK. It is moderately to heavily bioturbated with mm to cm scale, flattened burrows and mm scale pyrite filled burrows. Burrows, grading into flaser structures, are noted in Section 1.90-105 cm, and a single, 1 cm thick light gray (N7) color band with only slight flaser structure is observed in the CC.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td>NO</td> <td>1, 100</td> </tr> <tr> <td>D</td> <td></td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>10</td> </tr> <tr> <td>Silt</td> <td>85</td> </tr> <tr> <td>Clay</td> <td>5</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Diatoms</td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td>4</td> </tr> <tr> <td>Nannofossils</td> <td>90</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> </tr> <tr> <td>Radiolarians</td> <td>4</td> </tr> <tr> <td>Siliceous sponge spicules</td> <td>Tr</td> </tr> </table>	NO	1, 100	D		Sand	10	Silt	85	Clay	5	Diatoms	Tr	Foraminifers	4	Nannofossils	90	Quartz	Tr	Radiolarians	4	Siliceous sponge spicules	Tr
NO	1, 100																																				
D																																					
Sand	10																																				
Silt	85																																				
Clay	5																																				
Diatoms	Tr																																				
Foraminifers	4																																				
Nannofossils	90																																				
Quartz	Tr																																				
Radiolarians	4																																				
Siliceous sponge spicules	Tr																																				
									2	1.0																											



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									
UPPER EOCENE	F/M P15 - P17	A/M NP17 - NP19			V-1902 847.1 A-190 847.1-90 K-C30.3 -87.5		1	0.5 1.0				<p>NANNOFOSSIL CHALK</p> <p>Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL CHALK. Moderate to heavy bioturbation is indicated by mottling in shades of white.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">1, 100 D</p> <p>TEXTURE:</p> <p>Sand 10 Silt 85 Clay 5</p> <p>COMPOSITION:</p> <p>Diatoms Tr Foraminifers 2 Nannofossils 90 Quartz Tr Radiolarians 3 Siliceous sponge spicules Tr</p>
	<i>C. bandyca</i>	[=middle <i>T. bromia</i>]										
		<i>Asterolampra marylandica?</i>										
		<i>F/P-M</i>										

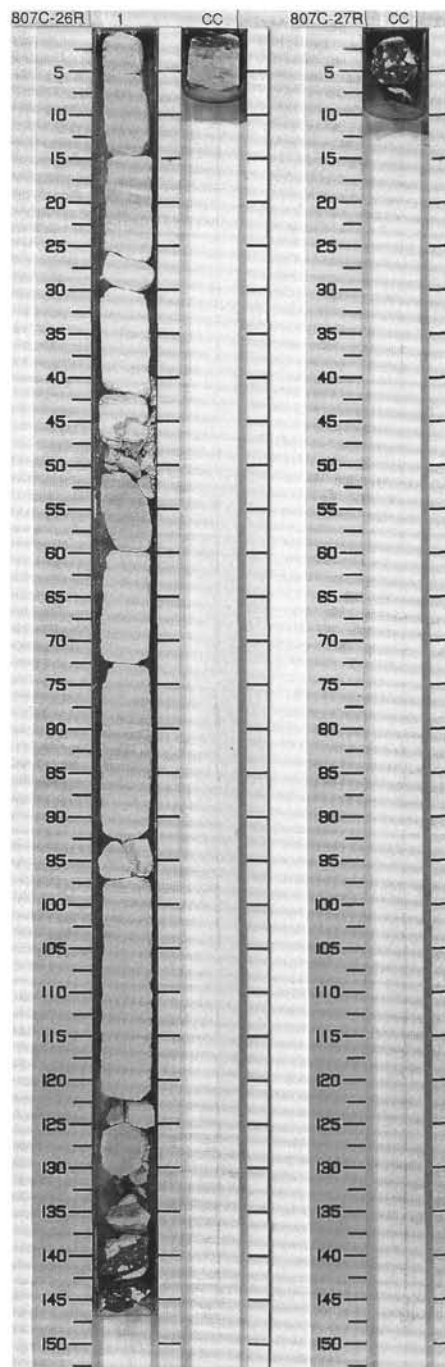


SITE 807 HOLE C CORE 26R CORED INTERVAL 958.1-967.8 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTORB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS								
	DIATOMS										
MIDDLE EOCENE?	R/P	? A/P NP17 - NP19			V-2003 0.35.6 0.2.10 0.84.8		0.5 1.0				<p>NANNOFOSSIL CHALK</p> <p>Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL CHALK. Moderate to heavy bioturbation is indicated by mottling in shades of white. A single stylolite is present in Section 1, 45 cm, and zones with faser structures are noted in Section 1, 50-57 cm and 78-85 cm. Chert nodules surrounded by thin, partly silicified rims are found near the bottom of the core.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">1, 100 D</p> <p>TEXTURE:</p> <p>Sand 10 Silt 85 Clay 5</p> <p>COMPOSITION:</p> <p>Diatoms Tr Foraminifers 8 Nannofossils 85 Quartz Tr Radiolarians 3 Siliceous sponge spicules Tr</p>
		C. bandyca =middle T. bromia									

SITE 807 HOLE C CORE 27R CORED INTERVAL 967.8-977.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTORB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS								
	DIATOMS										
MIDDLE EOCENE?		NP17 - NP19 A/P									<p>CHERT</p> <p>Major lithology: The core contains two fragments of gray (N5) CHERT, probably of nodular origin. The larger fragment is 6 cm in diameter. The smaller fragment is 3 cm in diameter.</p> <p>Minor lithology: White (2.5Y 8/0) NANNOFOSSIL CHALK occurs around the perimeter of the chert and is present as 5 mm wide inclusions in the chert.</p>

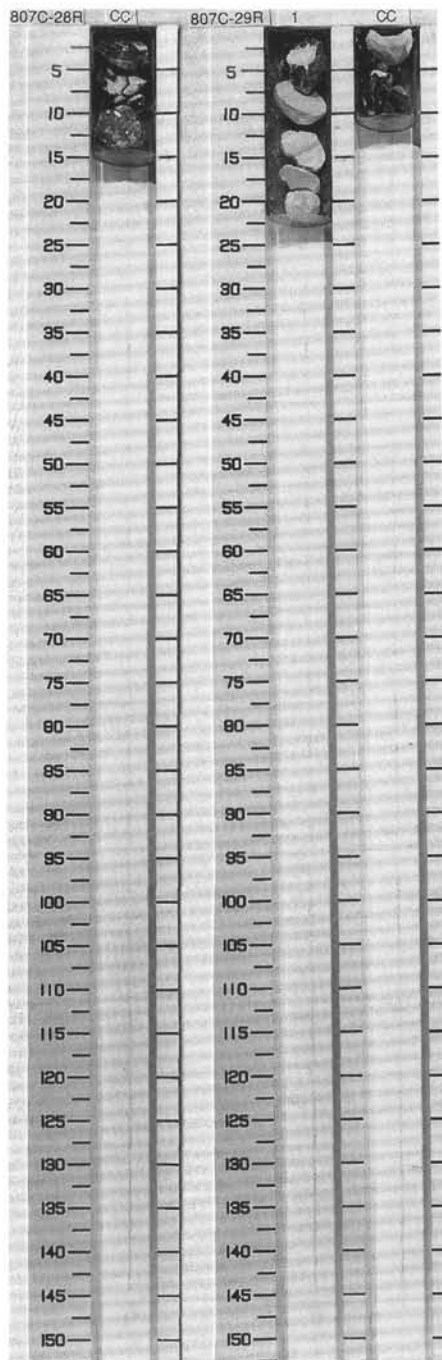


SITE 807 HOLE C CORE 28R CORED INTERVAL 977.5-987.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS								
MIDDLE EOCENE?	A/P		B				CC	▲▲▲▲▲▲▲▲▲▲				<p>CHERT</p> <p>Major lithology: The majority of the recovered core is gray (N5) CHERT, probably of nodular origin. The fragments are 2 to 5 cm in diameter.</p> <p>Minor lithology: White (2.5Y 8/0) NANNOFOSSIL CHALK occurs around the perimeter of the chert and as inclusions in the chert.</p>

SITE 807 HOLE C CORE 29R CORED INTERVAL 987.1-996.8 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS								
MIDDLE EOCENE	A/P	NP16	R/P	B			1	▲▲▲▲▲▲▲▲▲▲				<p>NANNOFOSSIL CHALK and CHERT</p> <p>Major lithology: The dominant lithology of this core is white (2.5Y 8/0) NANNOFOSSIL CHALK. It is slightly to moderately bioturbated with flattened horizontal burrows. Flaser structures and microstylolites are observed in Section 1, 13-15 cm. Gray (N5) CHERT, probably of nodular origin, constitutes the second major lithology. The chert has a horizontal contact with the chalk and contains mm scale chalk inclusions.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">1, 10 D</p> <p>TEXTURE:</p> <p>Sand 10 Silt 85 Clay 5</p> <p>COMPOSITION:</p> <p>Diatoms Tr Foraminifers 6 Nannofossils 90 Quartz Tr Radiolarians 2 Siliceous sponge spicules Tr</p>



SITE 807 HOLE C CORE 30R CORED INTERVAL 996.8-1006.5 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										
MIDDLE EOCENE	A/M	P14					1	0.5					<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains white (5Y 8/1) NANNOFOSSIL CHALK with FORAMINIFERS. They are abundant, very thin (< 1 mm), wavy, bedded, gray (5Y 6/1) color bands that appear as flaser structures. Abundant, faint burrows have been compacted.</p> <p>Minor lithology: Dark gray (5Y 6/1) CHERT is present as cobbles within the core.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">2.40 D</p> <p>TEXTURE:</p> <p>Sand 4 Silt 86 Clay 10</p> <p>COMPOSITION:</p> <p>Foraminifers 10 Nannofossils 90</p>
	A/M	NP16					2	1.0	VOID				

SITE 807 HOLE C CORE 31R CORED INTERVAL 1006.5-1016.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
MIDDLE EOCENE	P10 - P14	R/P					1	0.5					<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains numerous cobbles of NANNOFOSSIL CHALK with FORAMINIFERS. It is white (2.5Y 8/0) and greenish gray (5G 7/1) in color. The greenish gray color comes from abundant flaser structures/color bands, which occur in cm scale zones. The chinks are extremely well-cemented.</p> <p>Minor lithology: This core also contains several cobbles of white (2.5Y 8/0) LIMESTONE and several cobbles of CHERT. Bands of chert run through some of the limestone cobbles.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">1.20 1.61 D M</p> <p>TEXTURE:</p> <p>Sand 2 -- Silt 80 70 Clay 18 30</p> <p>COMPOSITION:</p> <p>Accessory minerals -- Tr Foraminifers 10 4 Nannofossils 89 96 Radiolarians Tr -- Siliceous fragments Tr --</p>
	NP16	A/P											



SITE 807 HOLE C CORE 32R CORED INTERVAL 1016.1-1025.4 mbsf

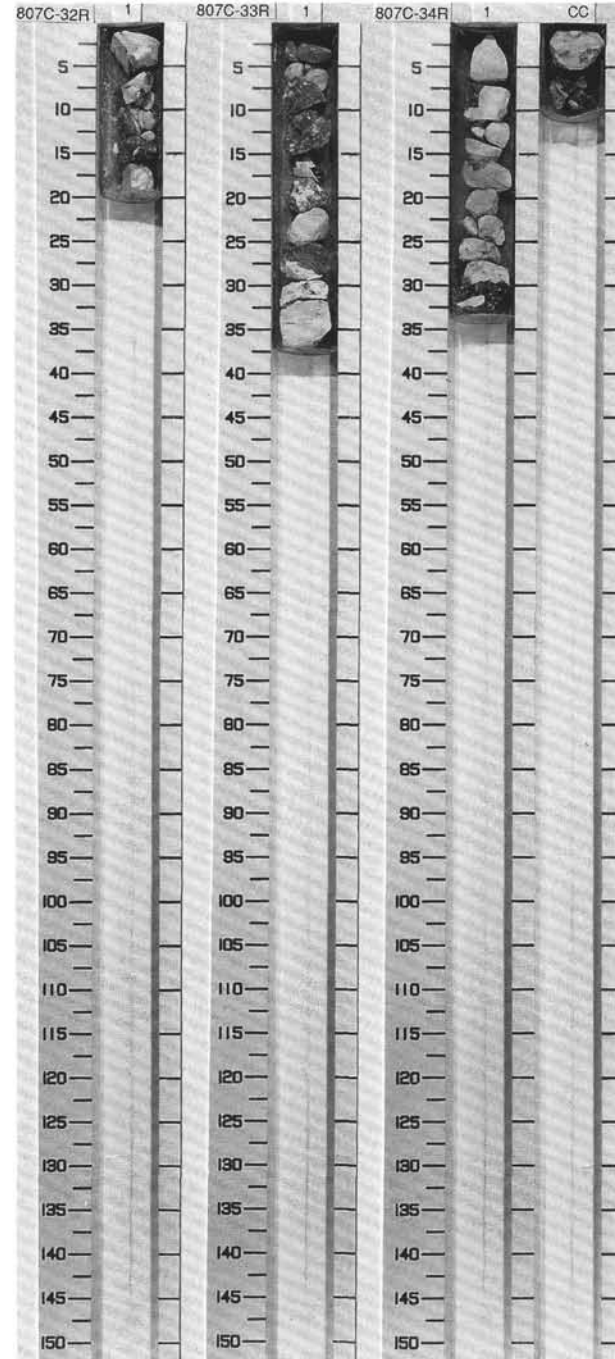
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS									
MIDDLE EOCENE	P12 - P14	C/P					1					NANNOFOSSIL CHALK, LIMESTONE, and CHERT Major lithology: This core contains several cobbles of CHALK, LIMESTONE, and CHERT. The chalk and limestone are white (2.5Y 8-0), and the chert is mostly gray to dark gray (5Y 6-1).

SITE 807 HOLE C CORE 33R CORED INTERVAL 1025.4-1034.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS									
MIDDLE EOCENE	NP15 - NP16	F/P	R/P				1					CHERT, LIMESTONE, and CHALK Major lithology: This core contains several cobbles of CHERT, LIMESTONE, and CHALK. The limestone and chalk are mostly white (2.5Y 8-0). The chert is gray to dark gray (5Y 6-1). The limestone cobbles have inclusions of chert.

SITE 807 HOLE C CORE 34R CORED INTERVAL 1034.6-1044.3 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS									
MIDDLE EOCENE	P10 - P14	F/P	A/P				1					CHERT and LIMESTONE Major lithology: This core contains pebbles of LIMESTONE and CHERT. The limestone is light gray (5Y 3-1) and bioturbated. The chert is very dark gray (5Y 3-1). The limestone pebbles contain pieces of chert.

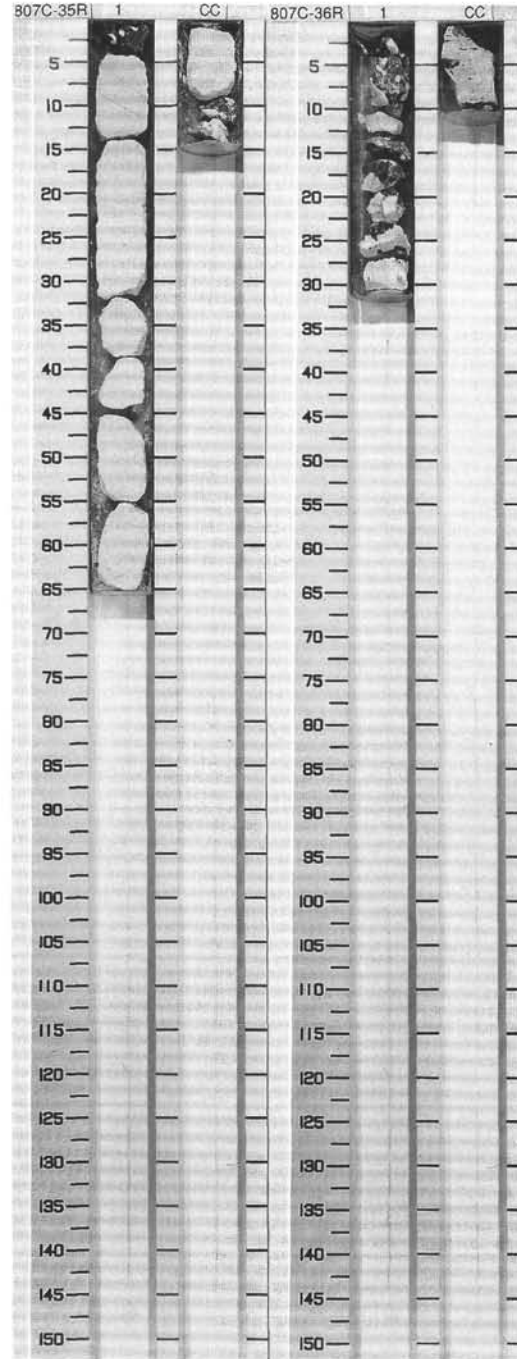


SITE 807 HOLE C CORE 35R CORED INTERVAL 1044.3-1054.0 mbsf

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 EOCENE	P10 - P14	A/M	NP15 - NP16	A/M		V-1772	0.45, 5.1, 9.4	1	0.5			*	<p>NANNOFOSSIL CHALK with FORAMINIFERS</p> <p>Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL CHALK with FORAMINIFERS. Moderate bioturbation is indicated from abundant compacted mottles. Steeply dipping stylolites are observed in Section 6, 10 cm. It is not clear if the dip is natural or the result of enlign disturbance. Several mottles appear to be aligned with the dipping stylolites</p> <p>Minor lithology: Several pieces of dark gray (2.5Y 4/0) CHERT are present at the top of Section 1 and in the CC.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">1, 25 D</p> <p>TEXTURE:</p> <p>Silt 80 Clay 20</p> <p>COMPOSITION:</p> <p>Accessory minerals Tr Foraminifers 20 Nannofossils 80</p>

SITE 807 HOLE C CORE 36R CORED INTERVAL 1054.0-1063.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
MIDDLE EOCENE	P10 - P14	A/M	NP15 - NP16	R/P				1					<p>NANNOFOSSIL CHALK with FORAMINIFERS and CHERT</p> <p>Major lithology: This core contains white (5Y 8/1) NANNOFOSSIL CHALK with FORAMINIFERS and dark gray (2.5Y 4/0) CHERT. Drilling has brecciated the section.</p>

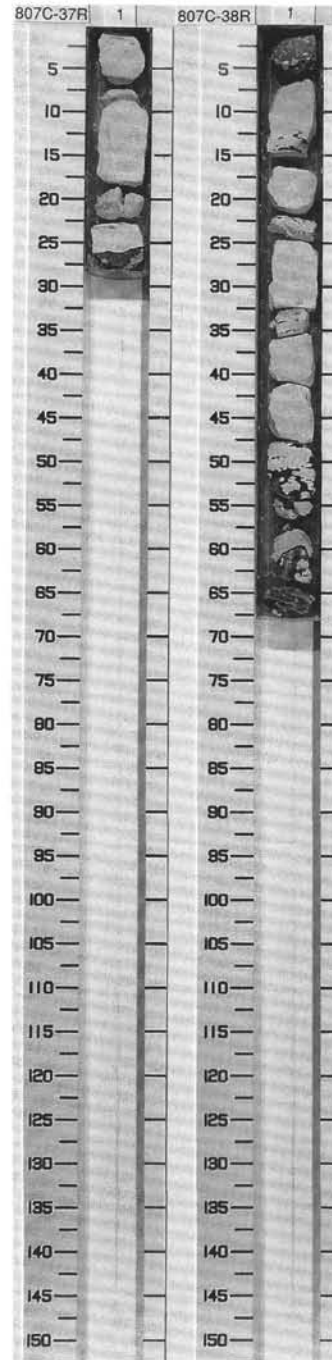


SITE 807 HOLE C CORE 37R CORED INTERVAL 1063.7-1073.2 mbsf

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	DIAZOOMS																						
MIDDLE EOCENE	R/P	C/P	R/P	B				1			*	<p>NANNOFOSSIL LIMESTONE to CHALK</p> <p>Major lithology: The recovered material contains white (2.5Y 8/0) NANNOFOSSIL LIMESTONE to CHALK. Moderate bioturbation is indicated by compacted horizontal burrows. The hardness probably varies with silica content.</p> <p>Minor lithology: A piece of reddish gray (10R 5/1) CHERT is present in Section 1. 26-29 cm. It has a sharp contact with the chalk and also contains cm scale inclusions of chalk.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr><td>1. 15</td></tr> <tr><td>D</td></tr> </table> <p>TEXTURE:</p> <table border="0"> <tr><td>Sand</td><td>10</td></tr> <tr><td>Silt</td><td>86</td></tr> <tr><td>Clay</td><td>4</td></tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr><td>Carbonate particles</td><td>42</td></tr> <tr><td>Foraminifers</td><td>8</td></tr> <tr><td>Nannofossils</td><td>50</td></tr> </table>	1. 15	D	Sand	10	Silt	86	Clay	4	Carbonate particles	42	Foraminifers	8	Nannofossils	50
1. 15																										
D																										
Sand	10																									
Silt	86																									
Clay	4																									
Carbonate particles	42																									
Foraminifers	8																									
Nannofossils	50																									

SITE 807 HOLE C CORE 38R CORED INTERVAL 1073.2-1082.4 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION													
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZOOMS																						
MIDDLE EOCENE	P11	NP15	A/P	B				1	0.5		*	<p>NANNOFOSSIL CHALK to SILICIFIED LIMESTONE</p> <p>Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL CHALK to SILICIFIED LIMESTONE. It is moderately bioturbated with horizontal, compacted burrows.</p> <p>Minor lithology: The core also contains gray (N5) CHERT, which may be nodular in origin and which contains cm scale bands and inclusions of chalk limestone.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr><td>1. 30</td></tr> <tr><td>D</td></tr> </table> <p>TEXTURE:</p> <table border="0"> <tr><td>Sand</td><td>10</td></tr> <tr><td>Silt</td><td>86</td></tr> <tr><td>Clay</td><td>4</td></tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr><td>Carbonate particles</td><td>45</td></tr> <tr><td>Foraminifers</td><td>5</td></tr> <tr><td>Nannofossils</td><td>50</td></tr> </table>	1. 30	D	Sand	10	Silt	86	Clay	4	Carbonate particles	45	Foraminifers	5	Nannofossils	50
1. 30																										
D																										
Sand	10																									
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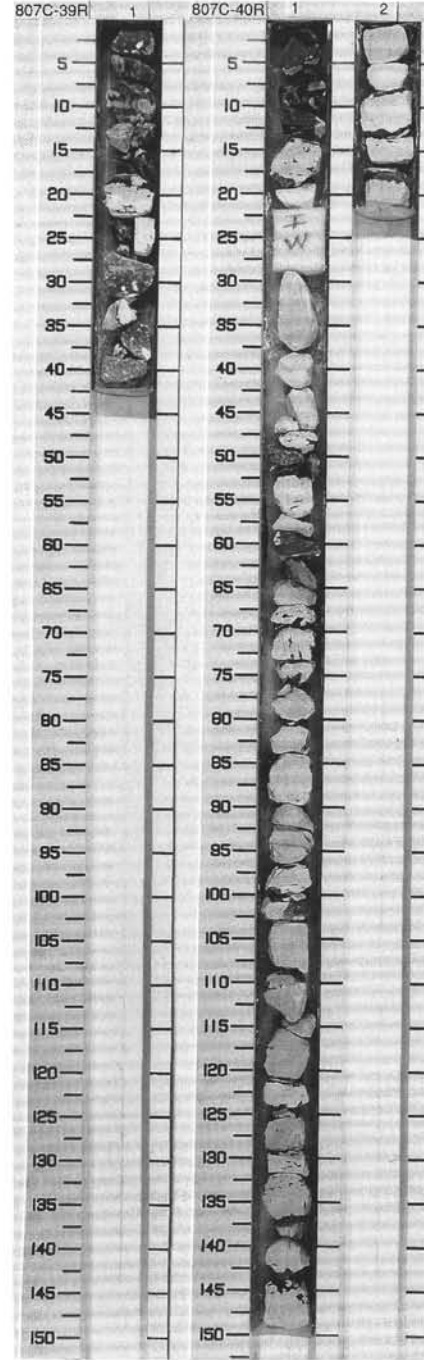


SITE 807 HOLE C CORE 39R CORED INTERVAL 1082.4-1092.0 mbsf

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 EOCENE	R/M	A/P	A/M	B				1			X X	*	<p>CHERT and SILICIFIED LIMESTONE</p> <p>Major lithology. The recovered material is dominated by CHERT, which may be nodular and contains up to cm size inclusions of limestone. The chert pieces are gray (N5 and 5YR 5/1) and dark reddish gray (5YR 4/2), and have chalk along some of the outer rims. The chert pieces vary between 1 cm and 5 cm in diameter.</p> <p>The remainder of the recovered material is slightly bioturbated, white (2.5Y 8/0) SILICIFIED LIMESTONE.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>1, 23 D</p> <p>TEXTURE:</p> <p>Silt 95 Clay 5</p> <p>COMPOSITION:</p> <p>Carbonate particles 44 Foraminifers 1 Nannofossils 50 Siliceous fragments 5</p>

SITE 807 HOLE C CORE 40R CORED INTERVAL 1092.0-1097.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
MIDDLE EOCENE	R/P	A/P	NP15	B				1 2	0.5 1.0		TW *	*	<p>NANNOFOSSIL CHALK to SILICEOUS NANNOFOSSIL LIMESTONE and CHERT</p> <p>Major lithology. The recovered material contains white (2.5Y 8/0 and 5Y 8/1) and moderately bioturbated NANNOFOSSIL CHALK to SILICEOUS NANNOFOSSIL LIMESTONE.</p> <p>Compacted horizontal burrows are common. The core also contains reddish gray (10R 5/1) to gray (N6) CHERT, possibly of nodular origin. It has thin layers and inclusions of chalk. Some of the chalk pieces contain layers and cm scale inclusions of chert.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>1, 38 D</p> <p>TEXTURE:</p> <p>Silt 95 Clay 5</p> <p>COMPOSITION:</p> <p>Carbonate particles 34 Foraminifers 4 Nannofossils 60 Siliceous fragments 2</p>

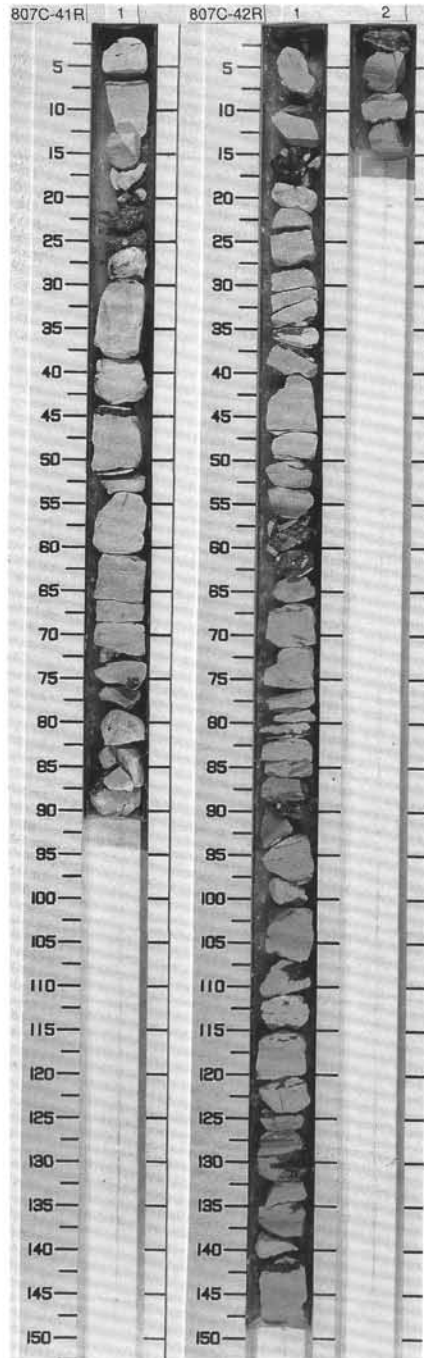


SITE 807 HOLE C CORE 41R CORED INTERVAL 1097.7-1102.4 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																	
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS																																											
MIDDLE EOCENE?	C/P	NP14	?		9-23.2 7-24.25		1	0.5					<p>LIMESTONE</p> <p>Major lithology: This core contains white (2.5Y 8/0) LIMESTONE with flaser structures and relict bioturbation structures.</p> <p>Minor lithology: The limestone pieces have 0.5 cm thick rims of light greenish gray (5GY 7/1) CHALK. Gray (5Y 5-1) and reddish gray (5YR 5/2) CHERT nodules (up to 2 cm thick) with mm size inclusions of limestone comprise about 5% of the recovered material.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1.47</td> <td>1.84</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>5</td> <td>—</td> </tr> <tr> <td>Silt</td> <td>90</td> <td>95</td> </tr> <tr> <td>Clay</td> <td>5</td> <td>5</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>—</td> <td>1</td> </tr> <tr> <td>Carbonate particles</td> <td>—</td> <td>47</td> </tr> <tr> <td>Foraminifers</td> <td>5</td> <td>Tr</td> </tr> <tr> <td>Micrite</td> <td>95</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>—</td> <td>50</td> </tr> <tr> <td>Siliceous fragments</td> <td>—</td> <td>2</td> </tr> </table>		1.47	1.84	D	D	D	Sand	5	—	Silt	90	95	Clay	5	5	Accessory minerals	—	1	Carbonate particles	—	47	Foraminifers	5	Tr	Micrite	95	—	Nannofossils	—	50	Siliceous fragments	—	2
	1.47	1.84																																												
D	D	D																																												
Sand	5	—																																												
Silt	90	95																																												
Clay	5	5																																												
Accessory minerals	—	1																																												
Carbonate particles	—	47																																												
Foraminifers	5	Tr																																												
Micrite	95	—																																												
Nannofossils	—	50																																												
Siliceous fragments	—	2																																												

SITE 807 HOLE C CORE 42R CORED INTERVAL 1102.4-1106.4 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS																														
LOWER EOCENE	R/P	NP12	?		9-26.0 7-26.21		1	0.5 1.0					<p>LIMESTONE and CHERT</p> <p>Major lithology: This core contains white (5Y 8/1) LIMESTONE and light brownish gray (10YR 6-2) and gray (2.5YR 5/0) CHERT. The limestone is moderately bioturbated with compacted horizontal burrows and faint flaser structures. The limestone pieces contain as much as 50% chert in the form of thin stringers and inclusions. The chert is present as nodules (ca. 3 cm in diameter) with cm scale chalk/limestone inclusions.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1.57</td> </tr> <tr> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>30</td> </tr> <tr> <td>Silt</td> <td>65</td> </tr> <tr> <td>Clay</td> <td>5</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>Tr</td> </tr> <tr> <td>Carbonate particles</td> <td>35</td> </tr> <tr> <td>Foraminifers</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>60</td> </tr> <tr> <td>Siliceous fragments</td> <td>Tr</td> </tr> </table>		1.57	D	D	Sand	30	Silt	65	Clay	5	Accessory minerals	Tr	Carbonate particles	35	Foraminifers	Tr	Nannofossils	60	Siliceous fragments	Tr
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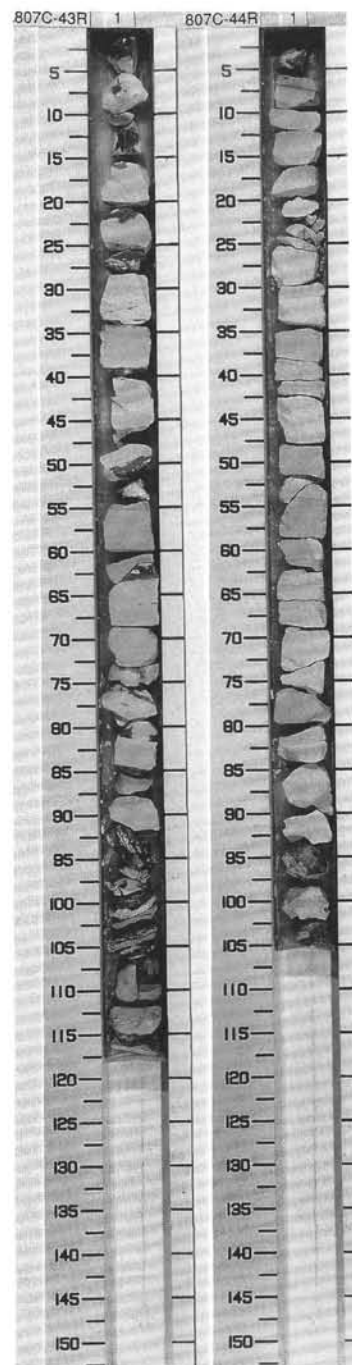


SITE 807 HOLE C CORE 43R CORED INTERVAL 1106.4-1116.0 mbsf

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																																									
LOWER EOCENE	?	?	?	B	0.16 P-21.28		1	0.5 1.0					<p>LIMESTONE and CHERT</p> <p>Major lithology: This core contains white (5Y 8-1) LIMESTONE and gray (2.5Y 5-0) CHERT. The limestone exhibits compacted burrows and wispy horizontal laminations. The chert is present as stringers and cm scale inclusions, as well as pieces up to 4 cm thick.</p> <p>Minor lithology: A piece of white (10YR 8-1) RADIOLARITE is present in Section 1, 106 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1.99</td> <td>1.110</td> </tr> <tr> <td>D</td> <td></td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>5</td> <td>80</td> </tr> <tr> <td>Silt</td> <td>60</td> <td>15</td> </tr> <tr> <td>Clay</td> <td>35</td> <td>5</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Calcareous fragments</td> <td>38</td> <td>—</td> </tr> <tr> <td>Diatoms</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>1</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>60</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Radiolarians</td> <td>1</td> <td>95</td> </tr> <tr> <td>Siliceous fragments</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Siliceous sponge spicules</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Silicoflagellates</td> <td>—</td> <td>Tr</td> </tr> </table>		1.99	1.110	D		M	Sand	5	80	Silt	60	15	Clay	35	5	Calcareous fragments	38	—	Diatoms	Tr	—	Foraminifers	1	—	Nannofossils	60	—	Quartz	—	Tr	Radiolarians	1	95	Siliceous fragments	—	Tr	Siliceous sponge spicules	Tr	—	Silicoflagellates	—	Tr
	1.99	1.110																																																					
D		M																																																					
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Radiolarians	1	95																																																					
Siliceous fragments	—	Tr																																																					
Siliceous sponge spicules	Tr	—																																																					
Silicoflagellates	—	Tr																																																					

SITE 807 HOLE C CORE 44R CORED INTERVAL 1116.0-1125.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																								
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS											DIATOMS																																							
LOWER EOCENE	?	NP12	B	B	0.30, 2 P-2.20		1	0.5					<p>LIMESTONE</p> <p>Major lithology: This core contains white (2.5Y 8/0) LIMESTONE. Very thin, wavy greenish gray (5GY 7/1) color bands are common throughout the core. Styolites are common in Section 1, at 40 and 67 cm, and a few pebbles of chalk are noted in Section 1, 22-25 cm. The limestone has very compacted, mm size burrows.</p> <p>Minor lithology: Gray (2.5Y 5/0) CHERT pebbles are found at the top of the Section 1 and between 94-106 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1.29</td> <td>1.46</td> <td>1.101</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>9</td> <td>2</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>90</td> <td>50</td> <td>75</td> </tr> <tr> <td>Clay</td> <td>1</td> <td>48</td> <td>20</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Calcareous fragments</td> <td>—</td> <td>90</td> <td>80</td> </tr> <tr> <td>Foraminifers</td> <td>10</td> <td>—</td> <td>—</td> </tr> <tr> <td>Micrite</td> <td>90</td> <td>—</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>—</td> <td>—</td> <td>10</td> </tr> <tr> <td>Siliceous fragments</td> <td>—</td> <td>10</td> <td>10</td> </tr> </table>		1.29	1.46	1.101	D		D	M	Sand	9	2	5	Silt	90	50	75	Clay	1	48	20	Calcareous fragments	—	90	80	Foraminifers	10	—	—	Micrite	90	—	—	Nannofossils	—	—	10	Siliceous fragments	—	10	10
	1.29	1.46	1.101																																																		
D		D	M																																																		
Sand	9	2	5																																																		
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Foraminifers	10	—	—																																																		
Micrite	90	—	—																																																		
Nannofossils	—	—	10																																																		
Siliceous fragments	—	10	10																																																		

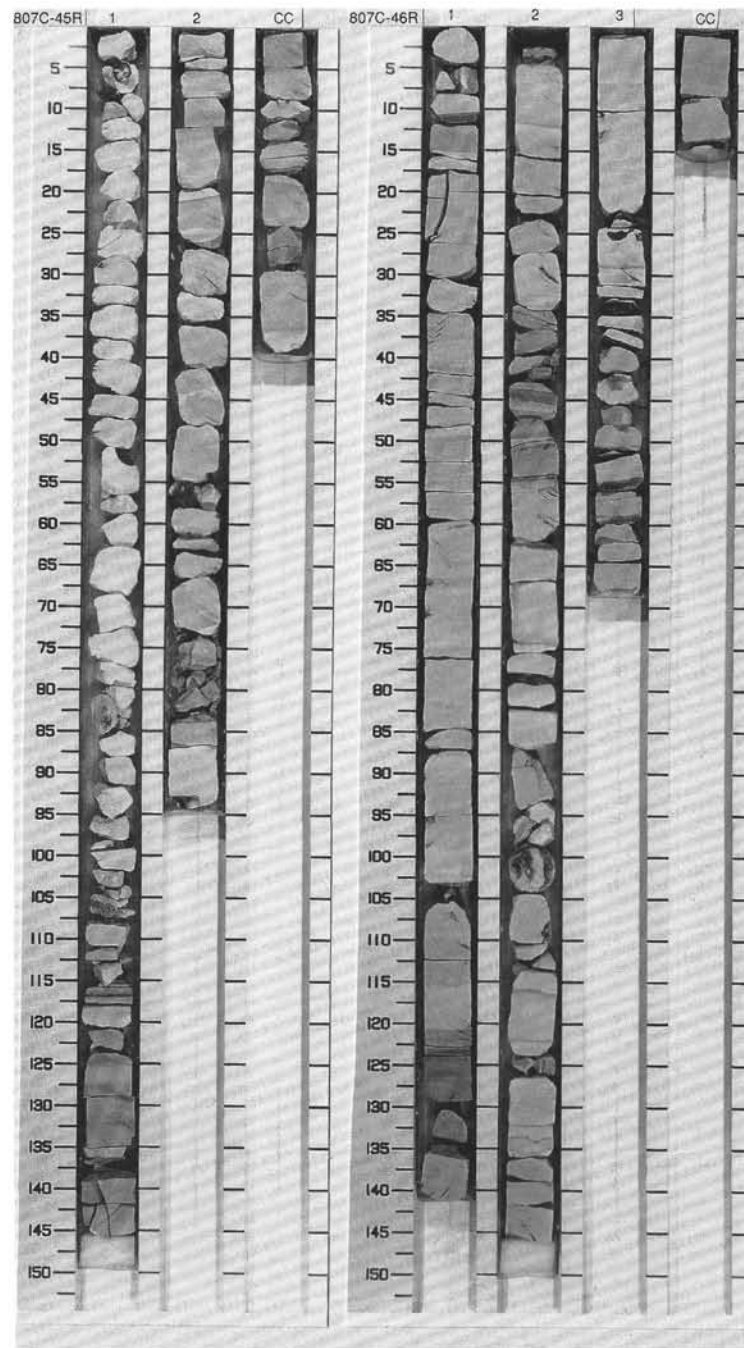


SITE 807 HOLE C CORE 45R CORED INTERVAL 1125.6-1135.2 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS		SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																
LOWER EOCENE? [P4 - P5]	FORAMINIFERS	MANNOFOSSILS	RADIOLARIANS	DIATOMS	PHYS. PROPERTIES	CHEMISTRY																																																							
	C/M	F/P NP12 C/P			4.23, 4.23, 2.29		1						<p>LIMESTONE</p> <p>Major lithology: This core contains LIMESTONE. It is white (2.5Y 8/0) to light gray (5Y 7/1) in color. The light gray color is found in zones composed of abundant wispy color bands, such as at Section 1, 86-150 cm, and Section 2, 73-82 cm. Several well-formed chert nodules and chert bands are apparent (e.g. nodules at 3 cm and 52 cm in Section 1). A thin interval (2 cm) of fine, wavy, dark gray, purple, and light gray, flaser-like color bands is present at Section 1, 116-118 cm. A stylolite is observed at Section 1, at 132 cm. Section 1, 0-87 cm contains numerous small clasts.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1.45</td> <td>2.51</td> <td>2.79</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>20</td> <td>1</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>80</td> <td>50</td> <td>60</td> </tr> <tr> <td>Clay</td> <td>-</td> <td>49</td> <td>35</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>-</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Calcareous fragments</td> <td>-</td> <td>26</td> <td>95</td> </tr> <tr> <td>Foraminifers</td> <td>20</td> <td>10</td> <td>Tr</td> </tr> <tr> <td>Micrite</td> <td>80</td> <td>-</td> <td>-</td> </tr> <tr> <td>Nannofossils</td> <td>-</td> <td>60</td> <td>Tr</td> </tr> <tr> <td>Radiolarians</td> <td>-</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Siliceous fragments</td> <td>-</td> <td>3</td> <td>5</td> </tr> </table>		1.45	2.51	2.79	D	D	D	M	Sand	20	1	5	Silt	80	50	60	Clay	-	49	35	Accessory minerals	-	Tr	Tr	Calcareous fragments	-	26	95	Foraminifers	20	10	Tr	Micrite	80	-	-	Nannofossils	-	60	Tr	Radiolarians	-	Tr	Tr	Siliceous fragments	-	3	5
	1.45	2.51	2.79																																																										
D	D	D	M																																																										
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Silt	80	50	60																																																										
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Foraminifers	20	10	Tr																																																										
Micrite	80	-	-																																																										
Nannofossils	-	60	Tr																																																										
Radiolarians	-	Tr	Tr																																																										
Siliceous fragments	-	3	5																																																										
R/P ?					4.280, 4.15, 3.8		2																																																						
B							3																																																						

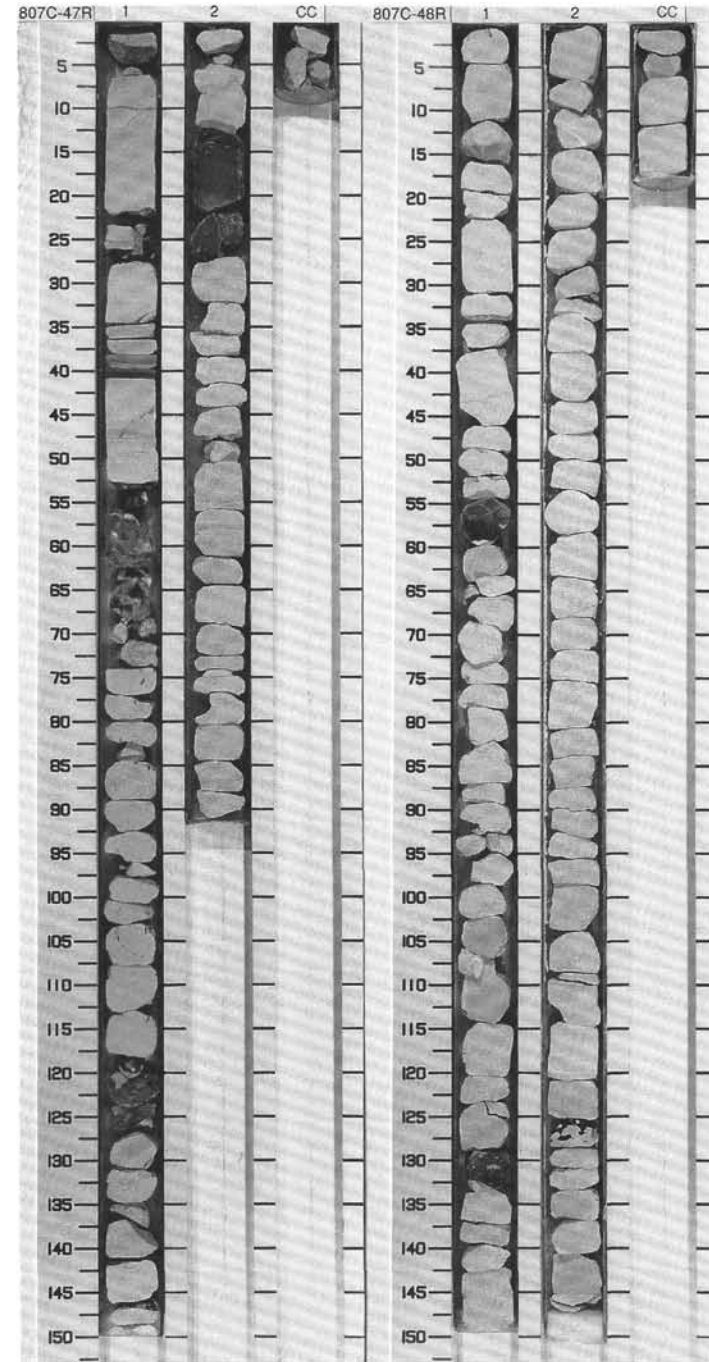
SITE 807 HOLE C CORE 46R CORED INTERVAL 1135.2-1140.2 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS		SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
LOWER EOCENE	FORAMINIFERS	MANNOFOSSILS	RADIOLARIANS	DIATOMS	PHYS. PROPERTIES	CHEMISTRY							
A/G	P5	R/P NP11			4.263		1						<p>LIMESTONE</p> <p>Major lithology: This core contains white (2.5Y 8/0 and 5Y 8/1) to light gray (5Y 7/1) LIMESTONE. Moderate to heavy bioturbation is indicated by elongate, compacted burrow traces. Faint, small-scale flaser structures are observed in the light gray (5Y 7/1) zones. Rare and thin (<2 mm thick) stylolites are present in Section 3.</p> <p>Minor lithology: Dark gray (5YR 5/1), gray (N5) and light gray (N6) CHERT is observed in three forms: 1) horizontally discontinuous 1 to 2 mm thick layers 2) continuous horizontal layers, up to 1 cm thick, and 3) irregularly shaped masses in limestone, up to 2 cm in diameter.</p>
R/P							2						
B							3						



SITE 807 HOLE C		CORE 47R		CORED INTERVAL 1140.2-1145.2 mbsf																																	
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																									
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										DIATOMS																								
UPPER PALEOCENE	R?	C/P	NP9	B	B								<p>LIMESTONE</p> <p>Major lithology: This core contains white (2.5Y 8/0 and 5Y 8/1) LIMESTONE. Moderate bioturbation is evident as elongate, compacted burrow traces. Faint, small-scale flaser structures are abundant. Thin (<1 mm thick) stylolites are present to abundant.</p> <p>Minor lithology: Dark gray (5YR 5/1), gray (N5) and light gray (N6) CHERT is observed in three forms: 1) horizontally discontinuous 1 to 2 mm thick layers, 2) continuous horizontal layers, up to 12 cm thick, and 3) irregularly shaped masses in limestone, up to 2 cm in diameter. A layer of gray (N4), finely laminated VOLCANIC ASH, approximately 1 cm thick is present at Section 1, 40 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 37</td> <td>1, 40</td> </tr> <tr> <td></td> <td>M</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>—</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>90</td> <td>93</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>2</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Calcareous fragments</td> <td>55</td> <td>3</td> </tr> <tr> <td>Nannofossils</td> <td>—</td> <td>2</td> </tr> <tr> <td>Volcanic ash</td> <td>45</td> <td>95</td> </tr> </table>		1, 37	1, 40		M	M	Sand	—	5	Silt	90	93	Clay	10	2	Calcareous fragments	55	3	Nannofossils	—	2	Volcanic ash	45	95
	1, 37	1, 40																																			
	M	M																																			
Sand	—	5																																			
Silt	90	93																																			
Clay	10	2																																			
Calcareous fragments	55	3																																			
Nannofossils	—	2																																			
Volcanic ash	45	95																																			

SITE 807 HOLE C		CORE 48R		CORED INTERVAL 1145.2-1150.2 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									
UPPER PALEOCENE	?	F/P	NP9	B	B							<p>LIMESTONE</p> <p>Major lithology: This core contains white (2.5Y 8/0 and 5Y 8/1) LIMESTONE. Moderate bioturbation is evident as elongate compacted burrows. Faint, small-scale flaser structures are present in Section 2. Thin (<1 mm thick) stylolites are common throughout the core.</p> <p>Minor lithology: Gray (N5) and brownish gray (5YR 6/1) CHERT is observed in Sections 1 as horizontally discontinuous layers (1-2 cm thick) or in continuous horizontal layers up to 5 cm thick. The chert appears spotty with light gray (N7) and very light gray (N8). cm scale inclusions. In Section 2, limestone inclusions are present in the chert layer.</p>

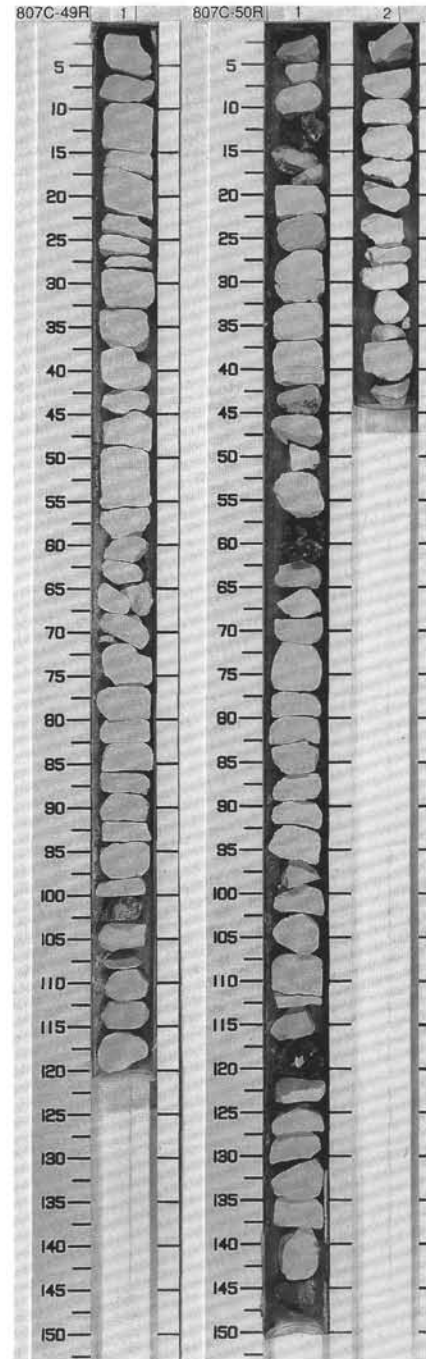


SITE 807 HOLE C CORE 49R CORED INTERVAL 1150.2-1155.2 mbsf

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										
UPPER PALEOCENE	P3 - P4	NP9			● 9-13.0 ● 9-13.0 ● 9-13.0		1	0.5 1.0	[Lithology Diagram]				<p>LIMESTONE</p> <p>Major lithology: This core contains white (2.5Y 8/0) LIMESTONE. Moderate bioturbation is evident as elongate compacted burrows. Faint, small-scale flaser structures are present in minor intervals. Thin (< 1 mm thick) stylolites are present to abundant.</p> <p>Minor lithology: Gray chert (N5) is present as a thin band and as a nodule 3 cm in diameter in the interval between 100 and 104 cm. The chert band has a sharp contact with the limestone.</p>

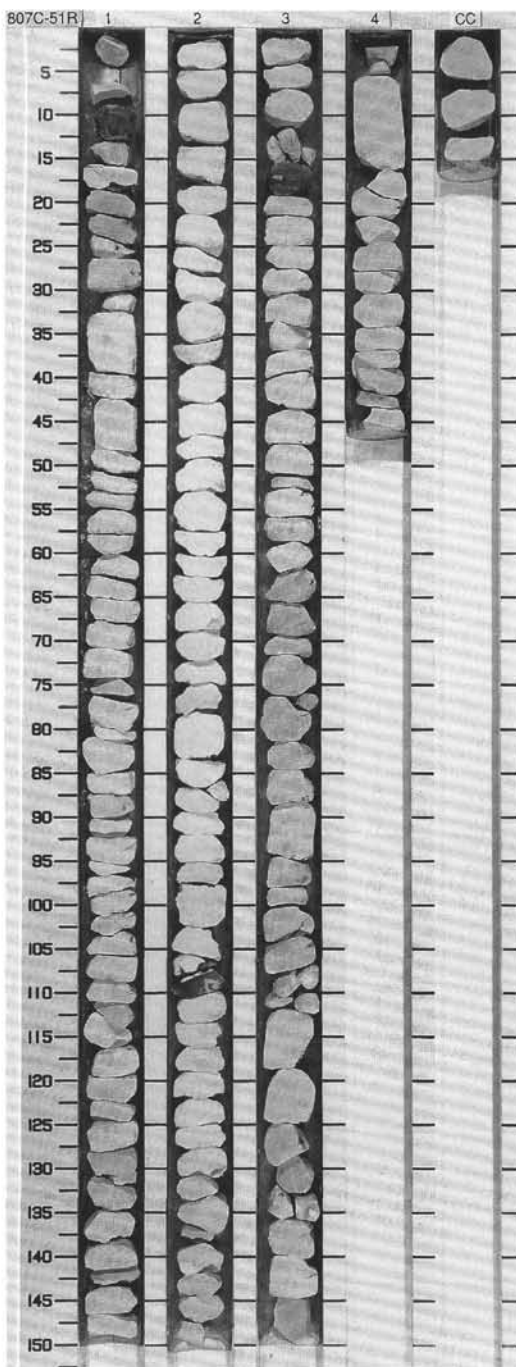
SITE 807 HOLE C CORE 50R CORED INTERVAL 1155.2-1160.2 mbsf

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																																		
UPPER PALEOCENE	P2 - P4	NP9			● 12.7 ● 12.7 ● 12.7		1 2	0.5 1.0	[Lithology Diagram]				<p>LIMESTONE</p> <p>Major lithology: This core contains white (2.5Y 8/0) LIMESTONE. Moderate bioturbation is indicated by mm scale horizontal and compacted burrows. Stylolites are present in Section 1, 42 and 44 cm.</p> <p>Minor lithology: Gray (N5), 2 to 5 cm thick pieces of CHERT with limestone inclusions are common. Section 1, 12-15 cm contains 100% VOLCANIC ASH, composed of abundant clear ash particles and common brown particles.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1.12</td> <td>1.39</td> </tr> <tr> <td>M</td> <td></td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>1</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>80</td> <td>90</td> </tr> <tr> <td>Clay</td> <td>19</td> <td>5</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Calcareous fragments</td> <td>Tr</td> <td>100</td> </tr> <tr> <td>Nannofossils</td> <td>Tr</td> <td>-</td> </tr> <tr> <td>Volcaic ash</td> <td>100</td> <td>-</td> </tr> </table>		1.12	1.39	M		D	Sand	1	5	Silt	80	90	Clay	19	5	Calcareous fragments	Tr	100	Nannofossils	Tr	-	Volcaic ash	100	-
	1.12	1.39																																			
M		D																																			
Sand	1	5																																			
Silt	80	90																																			
Clay	19	5																																			
Calcareous fragments	Tr	100																																			
Nannofossils	Tr	-																																			
Volcaic ash	100	-																																			

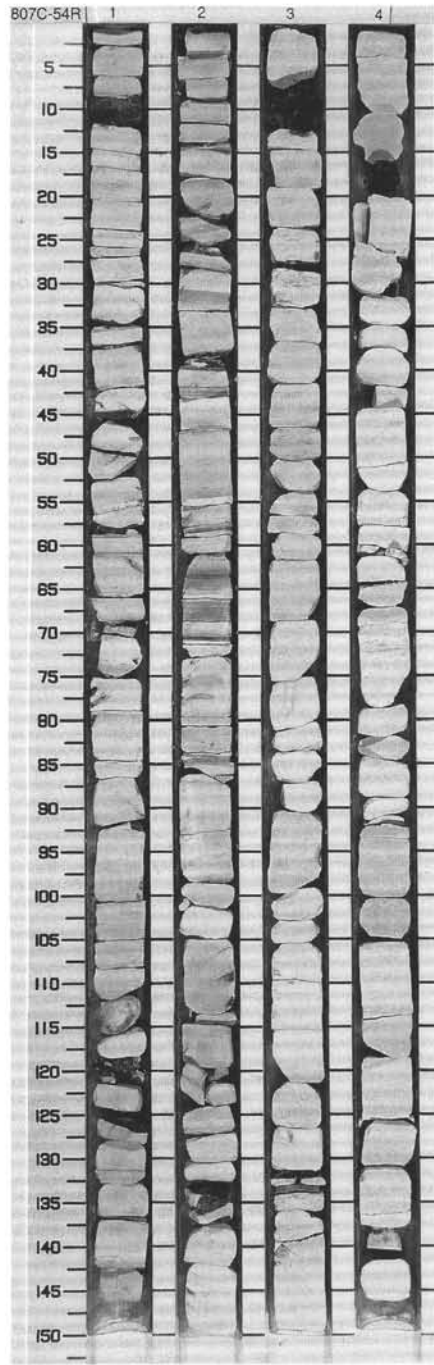


SITE 807 HOLE C CORE 51R CORED INTERVAL 1160.2-1169.8 mbsf

TIME-ROCK UNIT UPPER PALEOCENE	BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS PHYS. PROPERTIES CHEMISTRY SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES SAMPLES	LITHOLOGIC DESCRIPTION														
	FORAMINIFERS																			
	NANNOFOSSILS																			
	RADIOLARIANS DIATOMS																			
A/P	NP9		0.5			<p>LIMESTONE</p> <p>Major lithology: This core contains white (5Y 8/1) LIMESTONE, with slight to moderate amounts of bioturbation indicated by mm scale mottling. Millimeter-scale, disseminated grayish blue (5PB 5/2) pyrite-filled burrows are abundant below Section 3, 57 cm. Stylolites are not common in the fragments recovered, but features on the tops and bottoms of the core fragments suggest that stylolites are abundant in the original section.</p> <p>Minor lithology: Gray (N5) to light gray (N7) CHERT is present as fragments of layers and/or nodules in Section 1, 9-19 cm, Section 2, 106-110 cm, and Section 3, 16-20 cm.</p> <p>SMEAR SLIDE SUMMARY (%)</p> <table border="0"> <tr> <td></td> <td>1, 101</td> </tr> <tr> <td></td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>10</td> </tr> <tr> <td>Silt</td> <td>85</td> </tr> <tr> <td>Clay</td> <td>5</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Calcareous fragments</td> <td>88</td> </tr> <tr> <td>Nannofossils</td> <td>10</td> </tr> </table>		1, 101		D	Sand	10	Silt	85	Clay	5	Calcareous fragments	88	Nannofossils	10
	1, 101																			
	D																			
Sand	10																			
Silt	85																			
Clay	5																			
Calcareous fragments	88																			
Nannofossils	10																			
B		0.5-1.5	0.5-1.5																	
E		1.5-3.5	1.5-3.5																	
		3.5-8.5	3.5-8.5																	

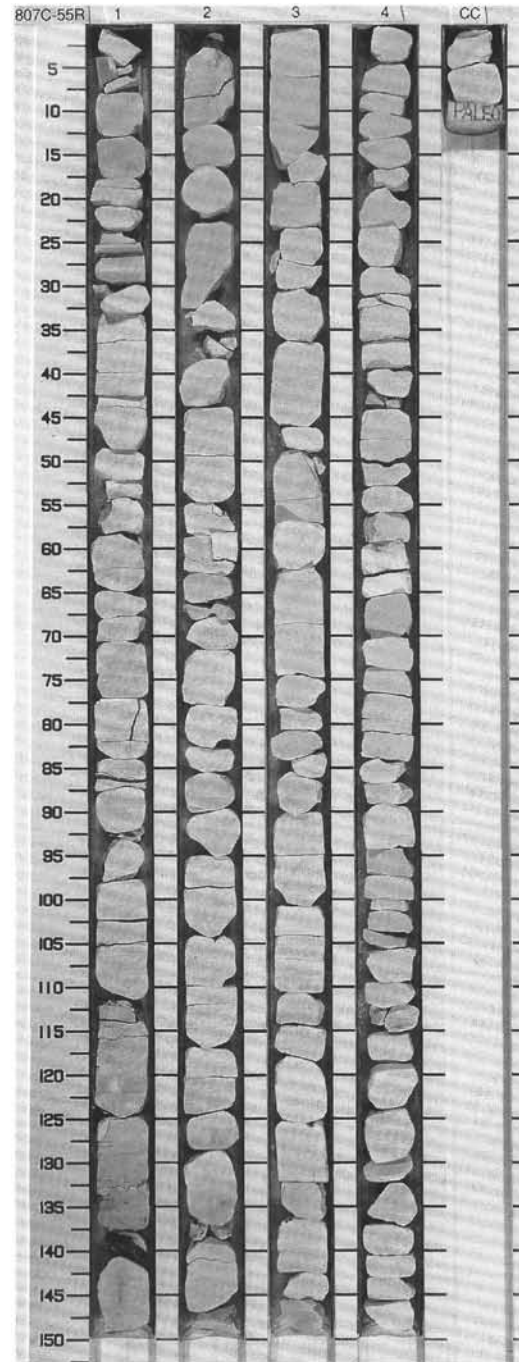


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																								
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS																																		
LOWER PALEOCENE	R/P	R/P	p1a				1	0.5					<p>LIMESTONE</p> <p>Major lithology: This core contains white (2.5Y 8/0 and 10YR 8/1) to light gray (N7) LIMESTONE, with variable amounts of silica cement. The sediment is moderately to highly bioturbated with mm to cm scale subhorizontal, compacted burrows. Faint, light gray (N7) sub mm scale flaser structures are present to abundant in Sections 1 through 3. Faint, light gray (10YR 7/2) color bands are common in Section 4. Styloites are common in Section 4, and evidence for styloites is present in Section 1 as gray coatings and irregular ends on limestone pieces.</p> <p>Minor lithologies: Dark reddish gray (5YR 4/2) CHERT is present as fragments of continuous layers up to 5 cm thick and as irregularly shaped masses in limestone pieces. Thin intervals (<1 cm thick) of gray (N5) LIMESTONE WITH VOLCANIC ASH are present at Section 1, 40, 63, and 138 cm, and Section 2, 13, 16, 60, 70, 83, and 115 cm, and Section 3, 27 and 134 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>3, 34</td> <td>3, 71</td> </tr> <tr> <td>M</td> <td></td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>15</td> <td>—</td> </tr> <tr> <td>Silt</td> <td>80</td> <td>95</td> </tr> <tr> <td>Clay</td> <td>5</td> <td>5</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Calcareous fragments</td> <td>85</td> <td>100</td> </tr> <tr> <td>Nannofossils</td> <td>5</td> <td>—</td> </tr> <tr> <td>Volcanic ash</td> <td>5</td> <td>—</td> </tr> </table>		3, 34	3, 71	M		D	Sand	15	—	Silt	80	95	Clay	5	5	Calcareous fragments	85	100	Nannofossils	5	—	Volcanic ash	5	—
	3, 34	3, 71																																			
M		D																																			
Sand	15	—																																			
Silt	80	95																																			
Clay	5	5																																			
Calcareous fragments	85	100																																			
Nannofossils	5	—																																			
Volcanic ash	5	—																																			
							2	1.0																													
UPPER MAASTRICHTIAN	R	R/P					3																														
	B	B					4																														



SITE 807 HOLE C CORE 55R CORED INTERVAL 1196.9-1206.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																					
	FORAMINIFERS	NAUPOFOSSILS	RADIOLARIANS																															
UPPER MAASTRICHTIAN	F/P						1	0.5 1.0	[Lithology symbols]	[Disturbance symbols]	[Structure symbols]	[Sample symbols]	<p>LIMESTONE</p> <p>Major lithology: This core contains white (5Y 8/1 and 10YR 8/1) LIMESTONE. The color grades to light gray (5Y 7/1) in the lower part of Section 1. Slight to heavy bioturbation is indicated by white and light gray mottling. Less bioturbated intervals are homogeneous. 5-10 cm thick and interbedded with 10-20 cm thick intervals containing numerous, flattened burrows. Burrows are predominantly mm scale, but rare cm scale ones are observed. Milli-meter-scale, white and light gray (10YR 7/1) color banding is found in Section 1, 0 and 30 cm, in Section 3, 22 and 98 cm, and in Section 4, 85 and 128 cm. The banding in Section 1 is partly due to grain size variations and may represent primary lamination. Dusky blue (5PB 3/2) mottling is present in Sections 1 and 2 and may represent very finely disseminated pyritic material. Stylolites are found in all sections.</p> <p>Minor lithology: Pieces of reddish brown (5YR 4/3) CHERT, up to 2 cm diameter, are present in Section 1, 93 cm and 140 cm and in Section 2, 140 cm. The single pieces may represent nodules or thin chert layers. Dark gray (5Y 4/1) layers of LIMESTONE with less than 10% volcanic ash are found in Section 1, 27 cm and 87 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1.26</td> <td>3.70</td> </tr> <tr> <td>M</td> <td></td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>15</td> <td>15</td> </tr> <tr> <td>Silt</td> <td>80</td> <td>80</td> </tr> <tr> <td>Clay</td> <td>5</td> <td>5</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Calcareous fragments</td> <td>90</td> <td>95</td> </tr> <tr> <td>Volcanic ash</td> <td>5</td> <td>—</td> </tr> </table>		1.26	3.70	M		D	Sand	15	15	Silt	80	80	Clay	5	5	Calcareous fragments	90	95	Volcanic ash	5	—
		1.26	3.70																															
	M		D																															
	Sand	15	15																															
Silt	80	80																																
Clay	5	5																																
Calcareous fragments	90	95																																
Volcanic ash	5	—																																
							2		[Lithology symbols]	[Disturbance symbols]	[Structure symbols]	[Sample symbols]																						
							3		[Lithology symbols]	[Disturbance symbols]	[Structure symbols]	[Sample symbols]																						
							4		[Lithology symbols]	[Disturbance symbols]	[Structure symbols]	[Sample symbols]																						

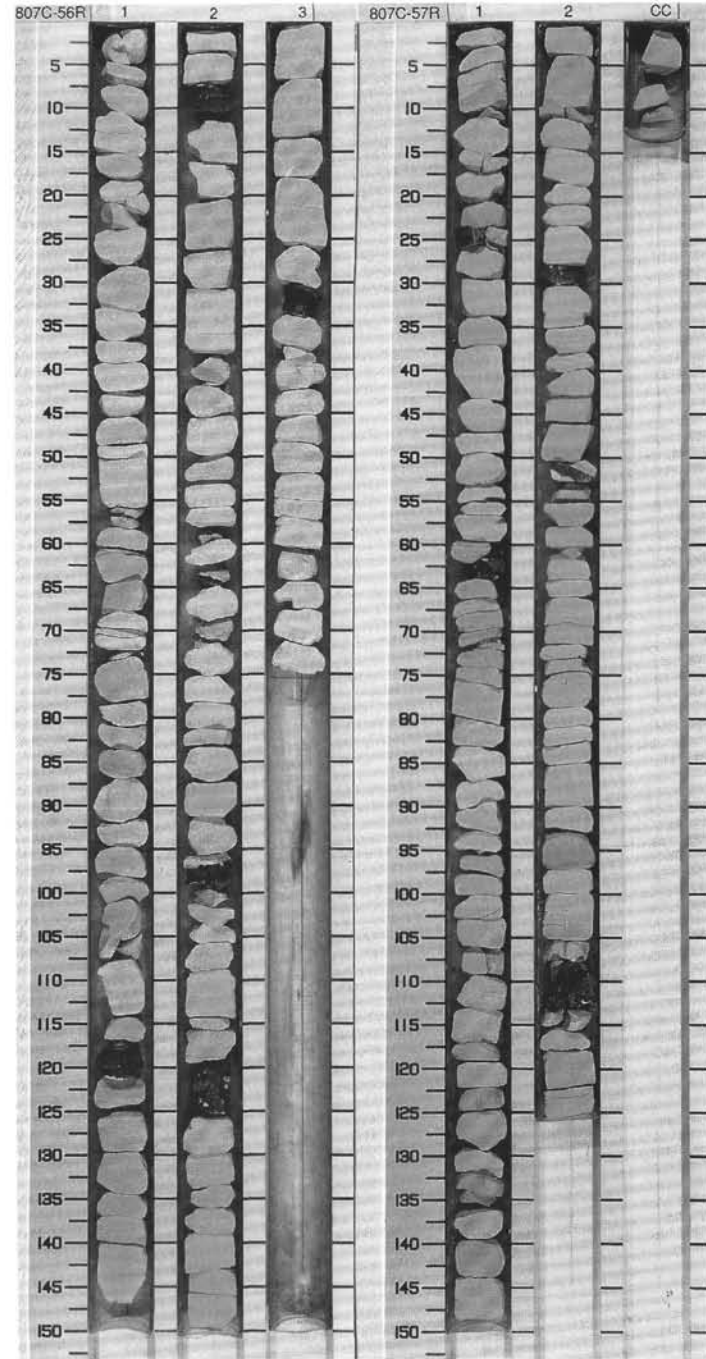


SITE 807 HOLE C CORE 56R CORED INTERVAL 1206.6-1216.3 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
UPPER MAASTRICHTIAN	F/M		B	B		V=3760 P=14.8 D=2.48 C=32.5	V=13.9 P=2.34 D=2.50 C=96.5	1	0.5					<p>LIMESTONE</p> <p>Major lithology: This core contains white (10YR 8/1) LIMESTONE. Intervals with moderate bioturbation, as evident from compacted, subhorizontal burrows and disseminated pyrite specks, are interbedded with intervals containing parallel, horizontal laminae and wedge-shaped laminated beds. The laminae appear to be primary depositional features. Stylolites are present in Section 1, 13 and 144 cm and Section 3, 17 cm. Drilling fractures have occurred at stylolite surfaces.</p> <p>Minor lithology: This core contains minor amounts of reddish brown (5YR 4/3) CHERT as bands and nodules. Inclusions of limestone are sometimes present within the chert. The chert occurs in Section 1, 117-120 cm, in Section 2, 97-100 and 120-127 cm and in Section 3, 128-134 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">1.50 D</p> <p>TEXTURE:</p> <p>Silt 70 Clay 30</p> <p>COMPOSITION:</p> <p>Calcareous fragments 90 Nannofossils 10</p>

SITE 807 HOLE C CORE 57R CORED INTERVAL 1216.3-1222.5 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 MAASTRICHTIAN	R/P C/M R/P B	<i>Abathomphalus mayaroensis</i>				V=4261 P=15.5 D=2.47 C=22.45	V=4293 P=16.5 D=2.45 C=97.1	1	0.5					<p>LIMESTONE</p> <p>Major lithology: This core contains white (2.5Y 8/0 and 10YR 8/1) LIMESTONE. Two thirds of the limestone contains flattened carbonate grains (<1 mm diameter) or compacted burrows with diffuse parallel lamination/flaser structures. Larger (0.5 cm thick, 3-5 cm long) sub-horizontal, compacted burrows were observed in Section 2. Low-angle truncation surfaces and the well-sorted nature of grains suggest that some parallel laminae are primary. One third of the limestone is silicified, exhibiting smooth cut surfaces and minor to moderate mottling. Stylolites are common and are usually located on the tops and bottoms of limestone pieces.</p> <p>Minor lithology: CHERT constitutes 5% of the core and is present in 1 to 8 cm thick intervals throughout the core. The chert is dark reddish gray (5YR 4/2) and dark brown (10YR 4/3) and commonly contains dark and light bands and chalk inclusions up to 1 cm in diameter.</p>

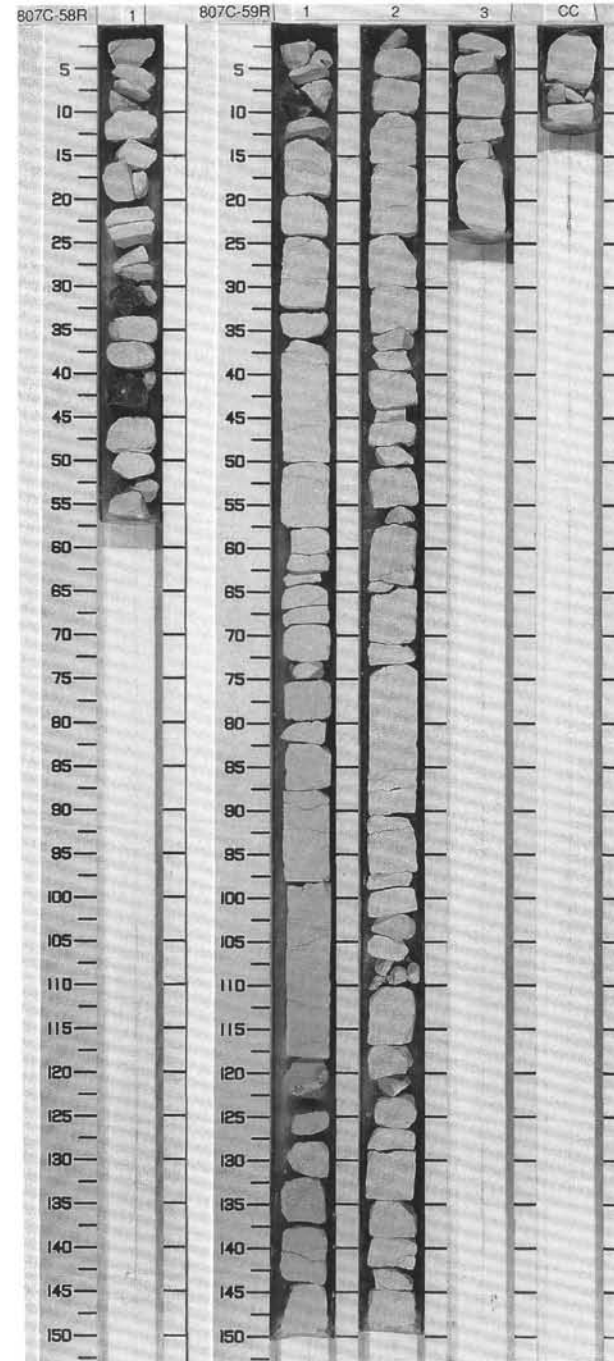


SITE 807 HOLE C CORE 58R CORED INTERVAL 1222.5-1232.2 mbsf

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											DIAZONES																				
MIDDLE MAASTRICHTIAN	<i>Gansserina gansseri</i> C/M				V-4598 19.7 2.2 4.8 97.4		1						<p>LIMESTONE</p> <p>Major lithology: This core contains white (10YR 8/1) LIMESTONE, generally in rounded pieces between 1 and 4 cm in thick. In Section 1, 0-5 cm and 28-52 cm, carbonate particles, possibly representing overgrown or recrystallized foraminifers are present as "spots" on the core. Slight banding in various shades of white is seen in Section 1, 9-15 cm. This banding may be of depositional or of diagenetic origin. In the relatively homogeneous interval at Section 1, 15 to 41 cm, slight bioturbation is indicated by weak mottling. Stylolites with dark greenish gray drapes are found at Section 1, 3 cm and 49 cm.</p> <p>Minor lithology: Dark gray (5YR 4/1) CHERT is found in Section 1 at 30-32 cm and 41-45 cm. The pieces are homogeneous, have broken surfaces, and may represent nodules or continuous layers.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 3</td> <td>1, 23</td> </tr> <tr> <td>M</td> <td></td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>10</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>85</td> <td>90</td> </tr> <tr> <td>Clay</td> <td>5</td> <td>5</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Calcareous fragments</td> <td>95</td> <td>95</td> </tr> <tr> <td>Nannofossils</td> <td>Tr</td> <td>Tr</td> </tr> </table>		1, 3	1, 23	M		D	Sand	10	5	Silt	85	90	Clay	5	5	Calcareous fragments	95	95	Nannofossils	Tr	Tr
	1, 3	1, 23																																
M		D																																
Sand	10	5																																
Silt	85	90																																
Clay	5	5																																
Calcareous fragments	95	95																																
Nannofossils	Tr	Tr																																

SITE 807 HOLE C CORE 59R CORED INTERVAL 1232.2-1241.8 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
MIDDLE MAASTRICHTIAN	<i>Gansserina gansseri</i>				V-3326 19.8 2.0 1.5 97.2		1	0.5 1.0					<p>LIMESTONE</p> <p>Major lithology: This core contains white (10YR 8/1) LIMESTONE. Specks of pyrite are disseminated throughout the core. White (2.5Y 8/0), mm size, slightly compacted clasts, which are finer grained than the matrix, are common. Stylolites are well-developed and some exhibit tension cracks.</p> <p>Minor lithology: Dark reddish gray (5YR 4/2) CHERT comprises about 40% of the Core-Catcher.</p>

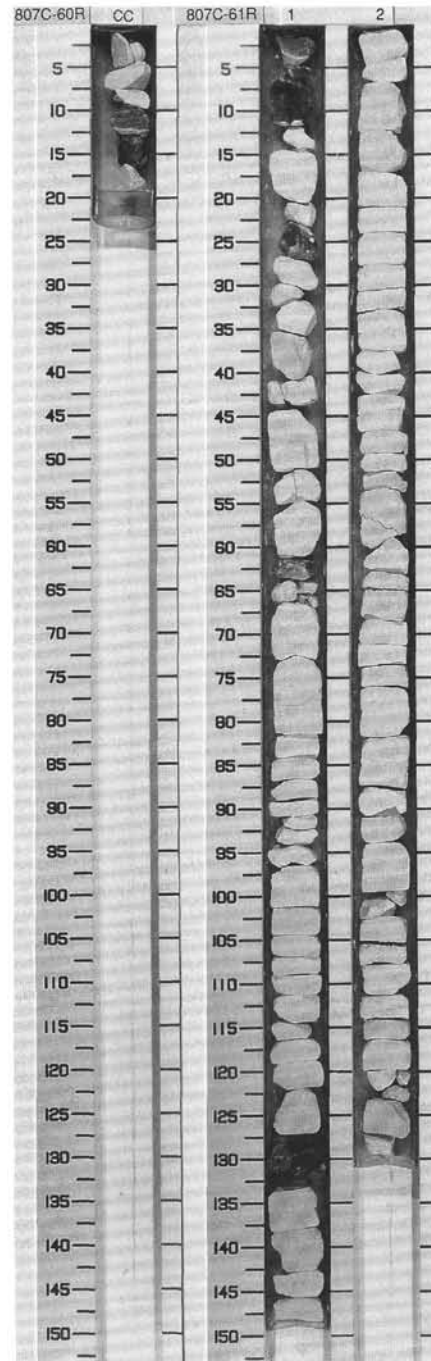


SITE 807 HOLE C CORE 60R CORED INTERVAL 1241.8-1251.5 mbsf

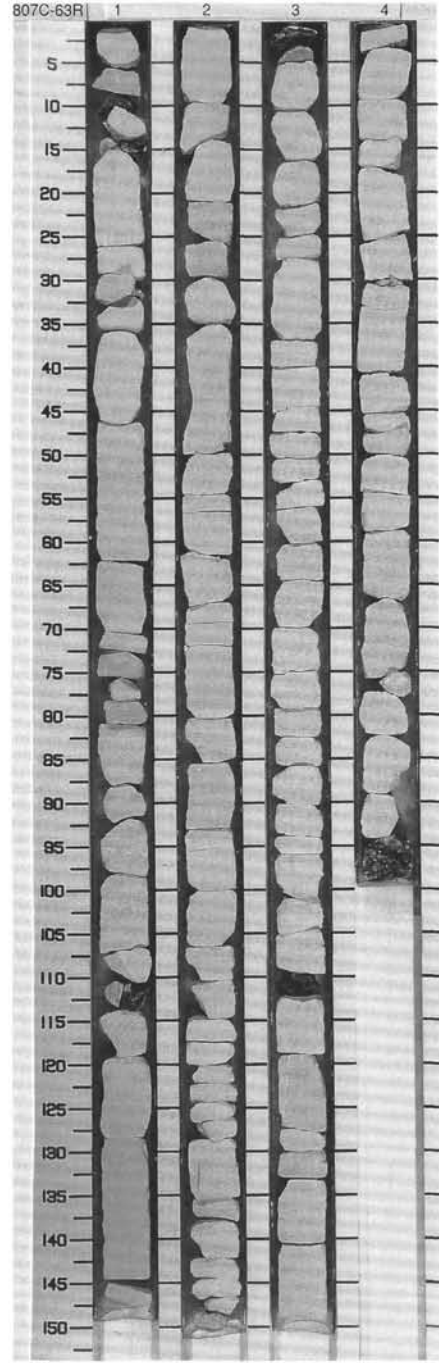
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
MIDDLE MAASTRICHTIAN	R/P	A/P	B	B				CC		▲ ▲				<p>LIMESTONE</p> <p>Major lithology: This core contains white (10YR 8/0) LIMESTONE. The limestone has a few elongate, mm scale, white (2.5Y 8/0) clasts. Tiny dark specks of pyrite(?) are abundant throughout.</p> <p>Minor lithology: Chert comprises about 40% of the CC.</p>

SITE 807 HOLE C CORE 61R CORED INTERVAL 1251.5-1261.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
UPPER CAMPANIAN - LOWER MAASTRICHTIAN	R/P	B	B					1 2	0.5 1.0					<p>LIMESTONE</p> <p>Major lithology: This core contains white (10YR 8/0) to gray (2.5Y 8/0) LIMESTONE. Disseminated pyrite specks are abundant throughout the core. Small (<1mm) compacted clasts appear to have a parallel alignment. A few trace fossils are apparent. Well-developed stylolites are also present.</p> <p>Minor lithology: CHERT occurs as three concretions in Section 1. It is dusky blue (5PB 3/2) and dark brown (7.5YR 4/2) in color.</p>



TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANOFOSSELS	RADIOLARIANS										
UPPER CAMPANIAN - LOWER MAASTRICHTIAN													
R													
A/P													
B													
					0.19.8 0.2.4.0 0.2.4.0 0.2.4.0								
					V-3582 V-3582 V-3582 V-3582								
					96.2 96.2 96.2 96.2								
					96.8 96.8 96.8 96.8								
					94.5 94.5 94.5 94.5								
					96.2 96.2 96.2 96.2								
					96.8 96.8 96.8 96.8								
					94.5 94.5 94.5 94.5								
					96.2 96.2 96.2 96.2								
					96.8 96.8 96.8 96.8								
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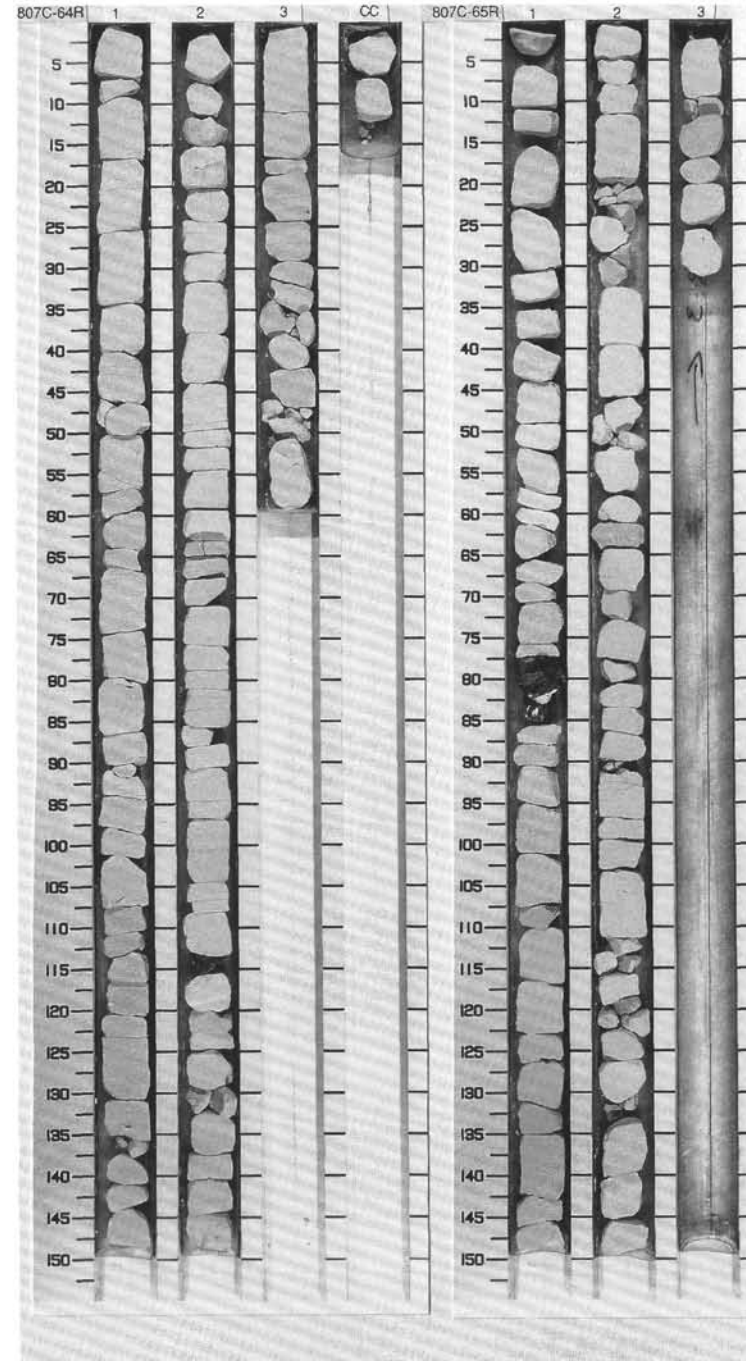


SITE 807 HOLE C CORE 64R CORED INTERVAL 1280.5-1290.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS							
UPPER CAMPANIAN - LOWER MAASTRICHTIAN										
	A/P	B	B		V-380.5-381.5 V-380.5-381.5 V-380.5-381.5	0.5 1.0				LIMESTONE Major lithology: This core contains white (2.5Y 8/0) LIMESTONE. White, rounded to slightly flattened chalk clasts are common to abundant in Section 1, Section 2, 0-120 cm, Section 3, 15-59 cm, and Core Catcher. These clasts form parallel to subparallel horizontal bands, and range up to approximately 4 mm in diameter. Several of the largest clasts contain burrows that terminate at the clast edge. Fewer than 1% of the clasts are light gray (N7) in color and are composed of isotropic to slightly birefringent noncalcareous material. These clasts may be rediposited and variably altered volcanic ash. Section 2, 120 cm to Section 3, 15 cm contains flaser structures and moderate amounts of bioturbation; the presence of elongated burrow outlines suggests that this interval may have been deformed slightly. Stylolites are common to abundant in Sections 1 and 2. Minor lithology: A 2 cm thick fragment of dark reddish gray (5YR 4/2) CHERT is present at Section 2, 113-115 cm.
					V-389.0-390.4 V-389.0-390.4 V-389.0-390.4	2.0 2.40				SMEAR SLIDE SUMMARY (%): 2, 25 D
					V-390.4-391.7 V-390.4-391.7 V-390.4-391.7	1.3 1.3				TEXTURE: Sand 10 Silt 85 Clay 5
					V-391.7-392.4 V-391.7-392.4 V-391.7-392.4	0.7 0.7				COMPOSITION: Calcareous fragments 90 Nannofossils 5

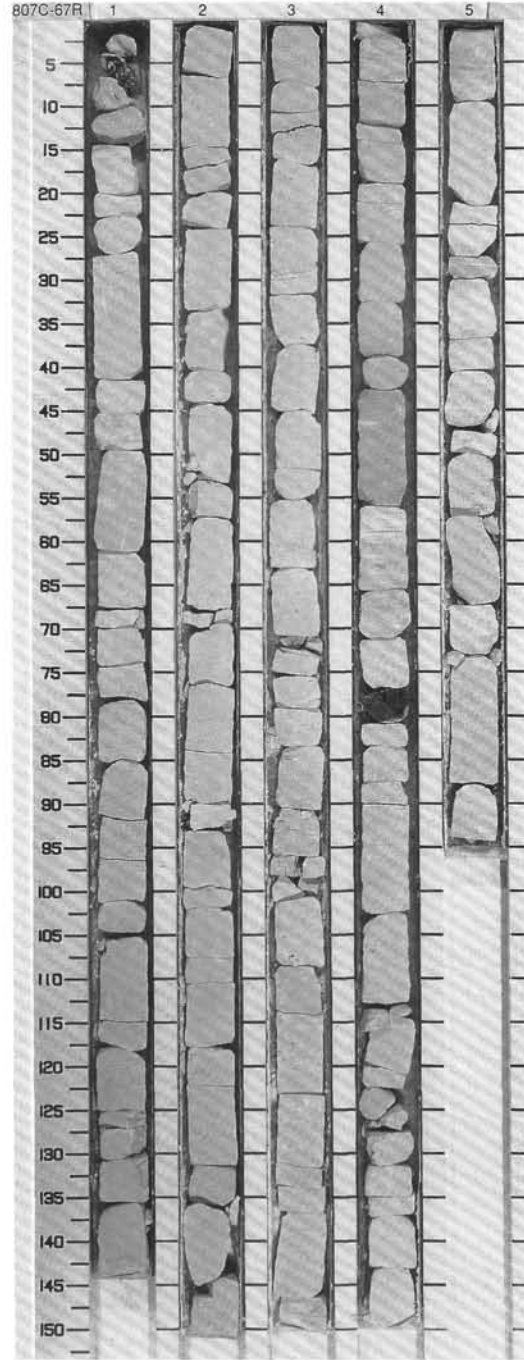
SITE 807 HOLE C CORE 65R CORED INTERVAL 1290.1-1299.8 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS							
UPPER CAMPANIAN - LOWER MAASTRICHTIAN										
	A/M		B		V-351.5-352.5 V-351.5-352.5 V-351.5-352.5	1.0 1.0				LIMESTONE Major lithology: This core contains white (2.5Y 8/0 and 10YR 8/1) LIMESTONE. The limestone alternates between intervals of uniform, slightly bioturbated silicified (?) limestone and limestone with common to abundant, rounded to slightly elongate, 1 to 5 mm diameter, white limestone clasts. A minor portion (<5%) of the clasts are light gray (N7). The clasts are arranged in parallel to sub-parallel intervals. Section 3, 20-30 cm also contains angular clasts of dusky blue green (5BG 3/2) color. Flaser structures were observed Section 1. Inverse graded bedding is present in Section 2, 51-57 cm. Stylolites are common throughout the core. Minor lithology: Section 1, 77-85 cm, contains dark reddish gray (5YR 4/2) CHERT. The chert contains chalk/limestone inclusions up to 1 cm in diameter.
					V-366.5-367.2 V-366.5-367.2 V-366.5-367.2	0.7 0.7				



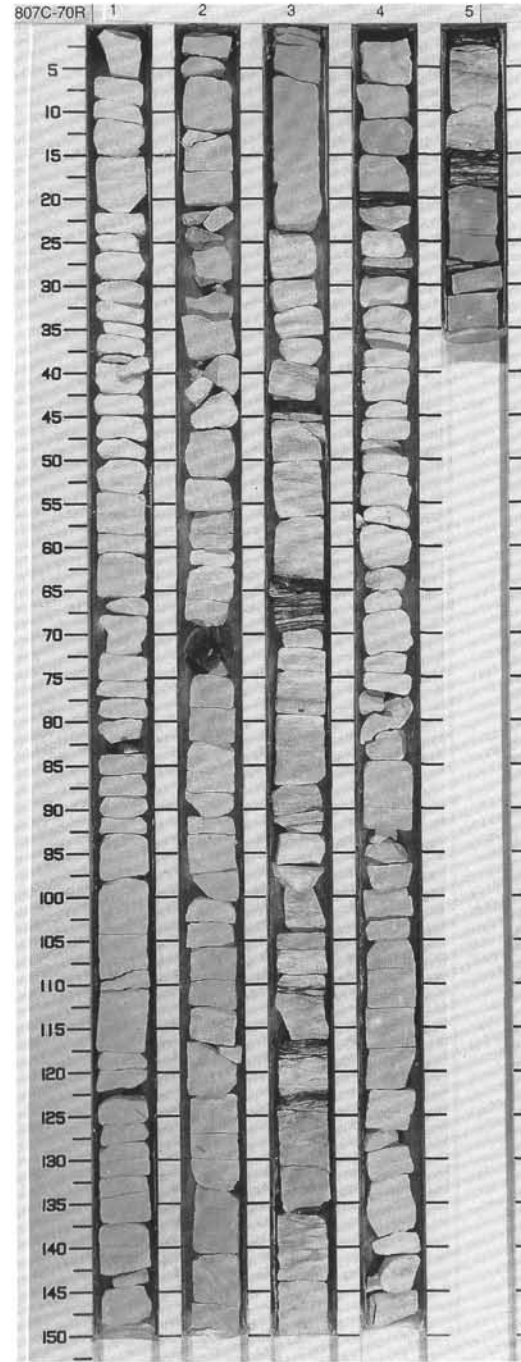
SITE 807 HOLE C CORE 67R CORED INTERVAL 1309.5-1319.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS							
	DIATOMS									
	PHYS. PROPERTIES									
UPPER CAMPANIAN - LOWER MAASTRICHTIAN	F/M			V-3366 2.1.7 V-3366 2.1.35 ● 2.1.35	1	0.5			*	<p>LIMESTONE</p> <p>Major lithology: This core contains white (5YR 8/1 to 2.5Y 8/0) LIMESTONE. From Section 1, 120 cm to Section 3, 107 cm, the limestone contains common to abundant, mm-scale, rounded to slightly flattened clasts of three types: white (2.5Y 8/0) limestone, light gray (N7) limestone?, and greenish gray (5G 5/1), more angular ?clay or glauconite?. The clasts are aligned in parallel to subparallel, horizontal bands. From Section 3, 107 cm to Core Catcher, the sediment is slightly to heavily boturbated, the more heavily burrowed zones are mottled and contain flaser structures, whereas the less heavily burrowed intervals are more homogenous in appearance. Stylolites are present in Sections 1 and 3, and common in Section 2.</p> <p>Minor lithology: CHERT, dark reddish gray (5YR 4/2) to dusky red (10R 3/3) CHERT is present as 2 to 3 cm thick fragments at Section 1, 5-15 cm and Section 4, 80-83 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">1,66 D</p> <p>TEXTURE:</p> <p>Silt 90 Clay 10</p> <p>COMPOSITION:</p> <p>Carbonate particles 90 Nannofossils 10</p>
				V-3370 2.3.3 V-3370 2.3.33 ● 2.3.33	2	1.0				
				V-3442 2.2.38 V-3442 2.2.38 ● 2.2.38	3	1.0				
				V-3811 2.1.1 V-3811 2.1.35 ● 2.1.35	4	1.0				
				V-93.8 2.1.8 V-93.8 2.1.8 ● 2.1.8	5	1.0				
				V-93.8 2.1.8 V-93.8 2.1.8 ● 2.1.8	6	1.0				
				V-93.8 2.1.8 V-93.8 2.1.8 ● 2.1.8	7	1.0				
				V-93.8 2.1.8 V-93.8 2.1.8 ● 2.1.8	8	1.0				
				V-93.8 2.1.8 V-93.8 2.1.8 ● 2.1.8	9	1.0				
				V-93.8 2.1.8 V-93.8 2.1.8 ● 2.1.8	10	1.0				



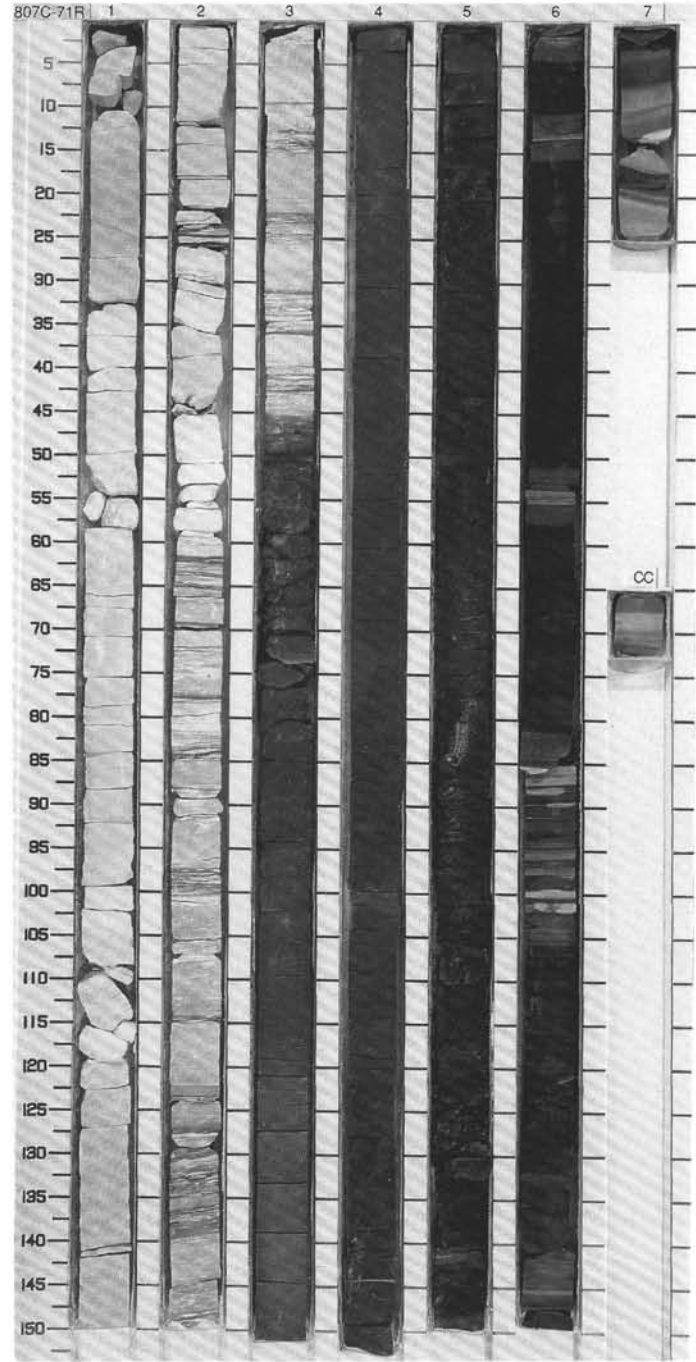
SITE 807 HOLE C CORE 70R CORED INTERVAL 1338.4-1348.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSILLS	RADIOLARIANS										
UPPER CAMPANIAN - LOWER MAASTRICHTIAN	C/P				V-3887 ϕ 21.0	\bullet %CaCO ₃ = 96.3	1	0.5					<p>LIMESTONE</p> <p>Major lithology: This core contains white (10YR 8/1) LIMESTONE. Much of the core is composed of intervals of marbled brown, light gray, and white colors. This marbling is sub-horizontal in orientation and possibly represents sheared sedimentary and bioturbation features, with a diagenetic overprinting. Small clasts (<1 mm) in the limestone matrix are scattered throughout Section 3. These clasts are especially evident in Section 3. 0.20 cm, and are underlain by a fold structure. Only a few, poorly developed stylolites are present</p> <p>Minor lithology: Thin beds (1-15 cm) of CLAYSTONE are interbedded within the limestone in Sections 3, 4, and 5 (11 beds total). The claystone is dark brown (10YR 3/3) in color. The beds are laminated and typically wavy or even braided in appearance. They may represent layers of altered ash beds. CHERT is also present in small amounts in this core (several 1-to 2-cm-thick intervals).</p>
	B				V-3784 ϕ 23.4	\bullet %CaCO ₃ = 94.3	2	1.0					
	B				V-3663 ϕ 22.4	\bullet %CaCO ₃ = 96.3	3	1.0					
					V-3663 ϕ 20.8	\bullet %CaCO ₃ = 96.8	4	1.0					
					V-3663 ϕ 22.4	\bullet %CaCO ₃ = 96.3	5	1.0					



SITE 807 HOLE C CORE 71R CORED INTERVAL 1348.0-1357.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																					
	FORAMINIFERS	NAANFOSSILS	RADIOLARIANS																																															
UPPER CAMPAIAN - LOWER MAASTRICHTIAN	A/P	T/P	A/P					0.5					<p>LIMESTONE AND CLAYSTONE</p> <p>Major lithology: This core contains white (7.5YR 8/0) and light gray (10YR 7/2) to very pale green (10G 8/2) LIMESTONE in Sections 1 through 3, 45 cm. The limestone is slightly to moderately bioturbated and contains 10 to 20 cm thick intervals of volcanic ash-rich CLAYSTONE characterized by heavy bioturbation, compaction, and/or shearing. The claystone is dark grayish brown (10YR 4/2), light gray (5Y 7/1), and grayish green (5G 5/2), and its abundance increases from Section 1 to Section 3, 45 cm. CLAYSTONE is predominant below Section 3, 45 cm, and is very dark grayish brown (10YR 3/2) to reddish brown (5YR 4/4) in Section 3, 45 cm to Section 5, 95 cm, and Section 6 to Core Catcher. Section 5, 95-150 cm is black (10YR 2/1). Moderate bioturbation is expressed in the grayish brown to reddish brown claystone by mm scale specks and cm scale burrows. Minor color banding is present in the black claystone.</p> <p>Minor lithology: SILTSTONE WITH RADIOLARIANS is present in abundant, 0.5 to 4 cm thick, pale blue green (5BG 7/2), reddish brown (5YR 4/4), and pink (7.5YR 7/4) beds, from Section 6, 10 cm to Core Catcher.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>3</td> <td>120</td> <td>6</td> <td>97</td> </tr> <tr> <td></td> <td>D</td> <td></td> <td>M</td> <td></td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>--</td> <td>15</td> </tr> <tr> <td>Silt</td> <td>9</td> <td>80</td> </tr> <tr> <td>Clay</td> <td>91</td> <td>5</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>5</td> <td>--</td> </tr> <tr> <td>Chert</td> <td>5</td> <td>--</td> </tr> <tr> <td>Clay</td> <td>90</td> <td>--</td> </tr> <tr> <td>Opales</td> <td>--</td> <td>1</td> </tr> <tr> <td>Radiolarians</td> <td>--</td> <td>15</td> </tr> <tr> <td>Siliceous fragments</td> <td>--</td> <td>84</td> </tr> </table>		3	120	6	97		D		M		Sand	--	15	Silt	9	80	Clay	91	5	Accessory minerals	5	--	Chert	5	--	Clay	90	--	Opales	--	1	Radiolarians	--	15	Siliceous fragments	--	84
	3	120	6	97																																														
	D		M																																															
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Radiolarians	--	15																																																
Siliceous fragments	--	84																																																
UPPER ALBIAN - LOWER CENOMANIAN	B	R/P	T/P					1.0																																										
	A/P							2.0																																										
	B							3.0																																										
								4.0																																										
								5.0																																										
								6.0																																										
								7.0																																										



SITE 807 HOLE C CORE 73R CORED INTERVAL 1367.4 -1375.4 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS								
APTIAN - ALBIAN UPPER ALBIAN - LOWER CENOMANIAN											
A/P	C/P										
B	UPPER ALBIAN - LOWER CENOMANIAN										
B	<i>Acenrotolyte umbilicata</i> - <i>O. sompheedia</i>										
				V-2773 ● -36.1 V-2021 ● -42.7 P-154 ● -50.2 C3CO3 ● -50.2		1					
				V-2773 ● -36.1 V-2021 ● -42.7 P-154 ● -50.2 C3CO3 ● -50.2		2					

CLAYSTONE and RADIOLARIAN SANDY SILTSTONE overlying LIMESTONE

Major lithology: Approximately 60% of this core is very dark gray (10YR 3/1) CLAYSTONE. It is interbedded on a 2 mm to 2 cm scale with grayish brown (10YR 5/2) to gray (10YR 6/1) and light brownish gray (10YR 6/2) RADIOLARIAN SANDY SILTSTONE, which comprises about 35% of the core. The contacts between the two sediment types are mostly gradational but sharp contacts are also common. Graded bedding is seen in upper part of Section 1. Wavy interfaces are common, and not all layers are continuous across the core. No clear evidence of scouring or load structures was found. Very dark gray (10YR 3/1) and brown (7.5YR 5/4) burrows occur in Section 2 between 27 and 34 cm. Flattened burrows can be discerned in some of the laminated sequences.

Minor lithology: Below Section 2, 82 cm, the core is moderately bioturbated gray (10YR 6/1) LIMESTONE. Steeply dipping, very fine anastomosing fractures are seen below Section 2, 96 cm.

Black (2.5YR 2.5/0) cm scale CHERT nodules are seen in Section 1, 10 cm and in Section 2, 105 cm.

SMEAR SLIDE SUMMARY (%)

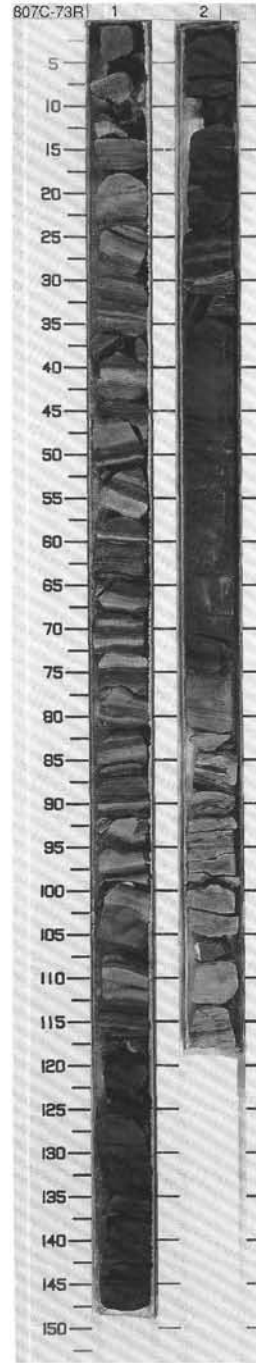
	1, 81	1, 83	2, 98
D	D	D	D

TEXTURE

Sand	2	35	—
Silt	20	60	30
Clay	78	5	70

COMPOSITION:

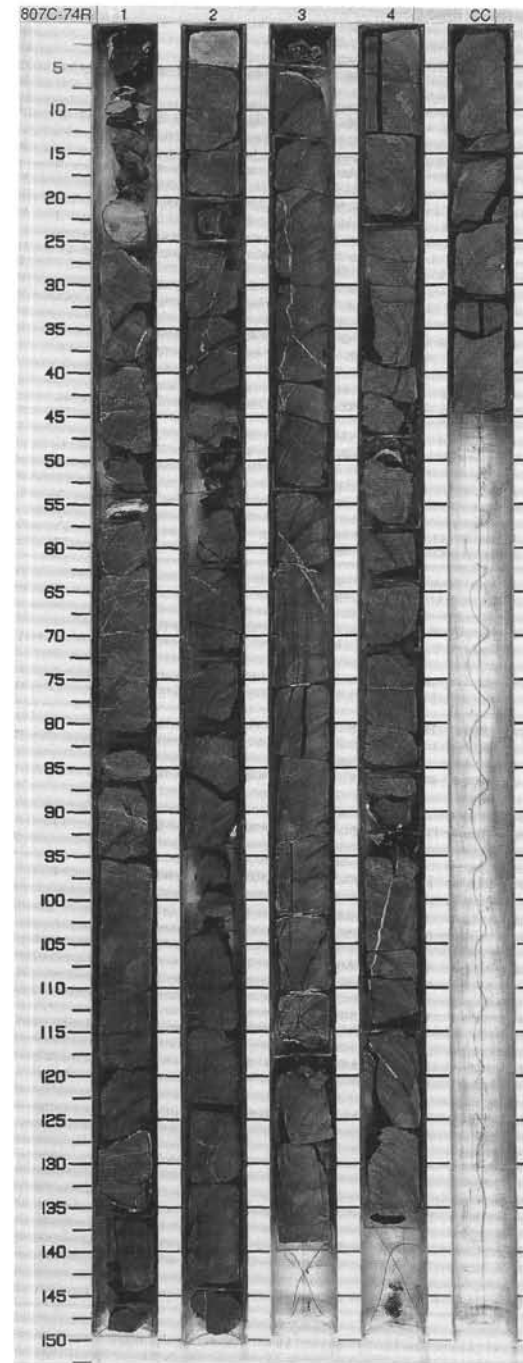
Accessory minerals	—	—	3
Carbonate grains	—	2	96
Chert	—	—	—
Clay	93	5	—
Glass	1	—	Tr
Nannofossils	—	—	1
Oxide	5	—	—
Radiolarians	1	35	—
Siliceous fragments	—	58	—



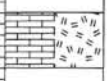
SITE 807 HOLE C CORE 74R CORED INTERVAL 1375.4-1385.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NAINFOSSILS	RADIOLARIANS	DIATOMS								
APTIAN - ALBIAN	A/P		R/P	R				0.5				<p>* LIMESTONE AND CHERT</p> <p>Major lithology. This core contains 25 cm of moderately fragmented, dark gray (N5) CHERT and dark grayish brown (10YR 4/2) to light gray (10YR 7/2) LIMESTONE. The chert contains limestone inclusions, brecciated fragments, and external coatings, and appears to have formed post-depositionally as nodules. The limestone exhibits pervasive flaser structures on a scale of 5 mm to 3 cm. The largest piece of limestone, which is located at Section 1, 19-25 cm, contains three major microfaults and abundant healed tensional cracks.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">1, 14 D</p> <p>TEXTURE:</p> <p>Silt 50 Clay 50</p> <p>COMPOSITION:</p> <p>Carbonate grains 92 Chert 2 Glass 1 Nannofossils 5</p>
								1.0				
								2				
								3				
							4					
							CC					

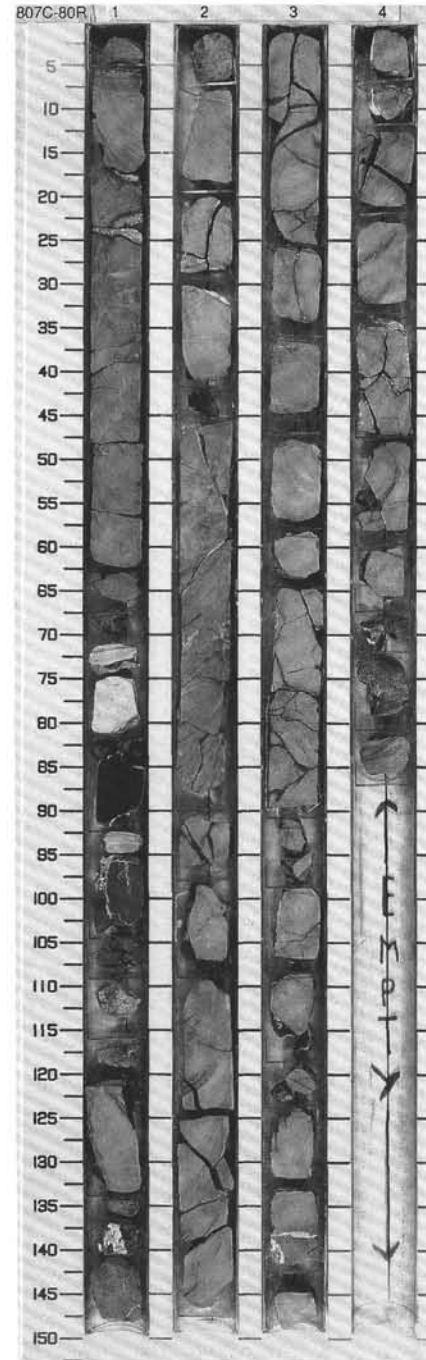
- 807 C 75R HARD ROCK
- 807 C 76R HARD ROCK
- 807 C 77R HARD ROCK
- 807 C 78R HARD ROCK
- 807 C 79R HARD ROCK



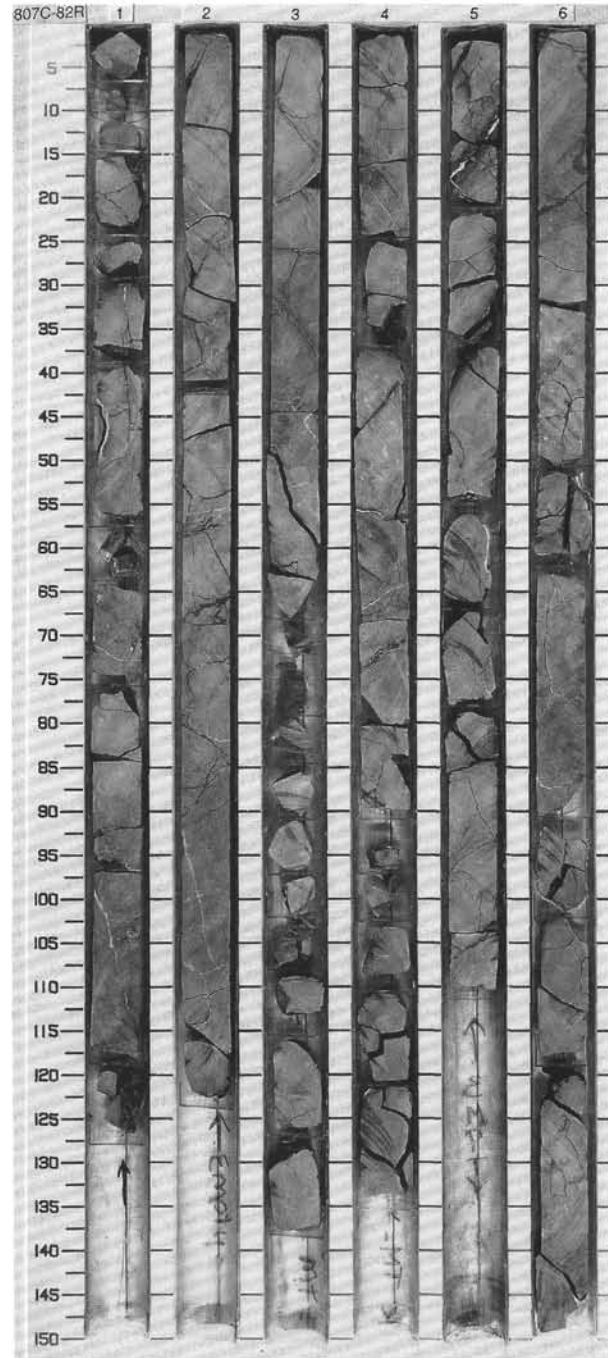
SITE 807 HOLE C CORE 80R CORED INTERVAL 1423.9-1433.6 mbsf

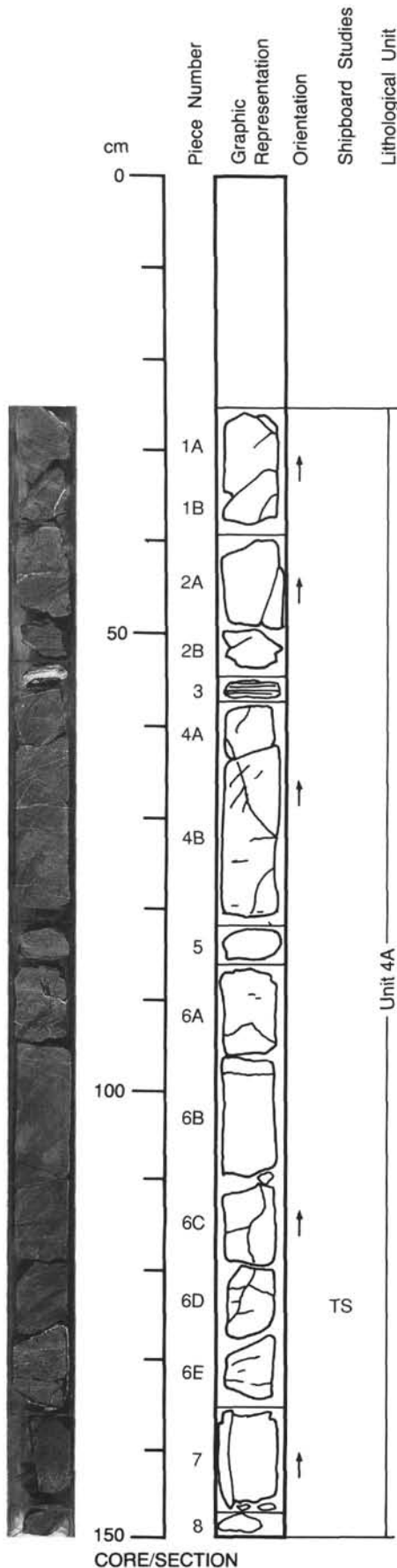
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																														
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																								
LOWER CRETACEOUS									0.5	BASALT				<p>LIMESTONE and CLAYEY VITRIC TUFF with OXIDES</p> <p>Major lithology: Brecciated pieces of LIMESTONE interbedded with CLAYEY VITRIC TUFF with OXIDES comprise the material in Section 1. 70-120 cm. The limestone is white (10YR 8/1 to 10YR 8/2) and contains angular fragments and clasts of vitric tuff and basaltic glass. Rounded fragments of altered vitric tuff, 1 to 2 mm thick concentrations of carbonate, and lensoid concentrations of sand-sized grains, including vitric tuff and basaltic clasts, are also observed. Some pieces have fracture fills of sparry calcite. The clayey vitric tuff is dark reddish brown (5YR 3/3) to reddish brown (5YR 4/3). The clays are probably smectite. One piece of the tuff contains long, vertical and horizontal, carbonate-filled fractures, up to 1 cm wide, and angular vitric tuff clasts.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1.80</td> <td>1.90</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Silt</td> <td>80</td> <td>60</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>40</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Carbonate grains</td> <td>100</td> <td>---</td> </tr> <tr> <td>Clay</td> <td>---</td> <td>30</td> </tr> <tr> <td>Diatoms</td> <td>Tr</td> <td>---</td> </tr> <tr> <td>Glass</td> <td>Tr</td> <td>60</td> </tr> <tr> <td>Nannofossils</td> <td>Tr</td> <td>---</td> </tr> <tr> <td>Oxide</td> <td>---</td> <td>10</td> </tr> </table>		1.80	1.90	D	D	D	Silt	80	60	Clay	20	40	Carbonate grains	100	---	Clay	---	30	Diatoms	Tr	---	Glass	Tr	60	Nannofossils	Tr	---	Oxide	---	10
		1.80	1.90																																									
	D	D	D																																									
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Nannofossils	Tr	---																																										
Oxide	---	10																																										
								1.0																																				
								2		BASALT																																		
								3																																				
								4																																				

807 C 81R HARD ROCK



TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	MAMMOFOSSELS	RADIOLARIANS	DIATOMS							
LOWER CRETACEOUS							0.5	BASALT			<p>CLAYEY LIMESTONE</p> <p>Major lithology: One piece of olive brown CLAYEY LIMESTONE is present in Section 3, 72.79 cm. The clay is probably smectite, and iron oxides are common to abundant. The limestone contains 5-10% grayish green (5G 5/2) clasts that are 2-3 mm in diameter and range in shape from elongate and angular to pelletal. These clasts could be glauconite or basaltic debris.</p>
							1.0				
							2				
							3				
							4	BASALT			
							5				
						6					





UNIT 4A: APHYRIC BASALT

Pieces 1, 2

CONTACTS: Pillow margin.
PHENOCRYSTS:
 Pyroxene - ~1%; 1 mm; euhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Gray to red-brown.
STRUCTURE: Pillow.
ALTERATION: Highly altered, mottled and banded appearance.
VEINS/FRACTURES: ~1%; 0.5-2 mm; subvertical to subhorizontal; calcite filled.

UNIT 4A: APHYRIC BASALT

Pieces 3, 4

CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - <1%; 1-2 mm; subhedral to euhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Gray with red-brown patches.
STRUCTURE: Pillow lava.
ALTERATION: Moderate to high, mottled appearance near top.
VEINS/FRACTURES: 2-3%; 0.2-2 mm; subvertical to subhorizontal; brown and green clay vein filling, blue-green mineral present.
ADDITIONAL COMMENTS: Piece 3 is an inter-pillow breccia consisting of green altered glass (celadonite?) and calcite.

UNIT 4A: APHYRIC BASALT

Piece 5

CONTACTS: None.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Gray.
STRUCTURE: Pillow lava.
ALTERATION: Moderate to high.
VEINS/FRACTURES: ~1%; 0.2-1 mm; varied orientations; calcite.

UNIT 4A: APHYRIC BASALT

Piece 6

CONTACTS: None.
PHENOCRYSTS: Piece 6D contains 5 mm aggregate of plagioclase phenocrysts.
 Plagioclase - <1%; 1-3 mm; euhedral.
GROUNDMASS: Fine grained to glassy.
VESICLES: Nonvesicular.
COLOR: Medium to dark gray.
STRUCTURE: Pillow lava.
ALTERATION: Slight to high.
VEINS/FRACTURES: ~3%; 0.5-1 mm; subvertical to subhorizontal; calcite, green and brown clay.

UNIT 4A: APHYRIC BASALT

Pieces 7, 8

CONTACTS: None.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Gray.
STRUCTURE: None.
ALTERATION: Moderate.
VEINS/FRACTURES: <1%; 0.2-1 mm; subvertical; calcite.

130-807C-74R-2

UNIT 4A: APHYRIC BASALT

Pieces 1-3

CONTACTS: None.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained with glass margins.
VESICLES: Nonvesicular.
COLOR: Dark gray to medium gray.
STRUCTURE: Pillow lava.
ALTERATION: Slightly altered near margin to moderately altered interior.
VEINS/FRACTURES: <1%; 0.5-2 mm; subvertical and subhorizontal; calcite filled with minor clays and/or iron oxides.
ADDITIONAL COMMENTS: Piece 1A is a banded limestone vein filling. The upper 1-1.5 cm contains a green mineral (epidote?). It shows a sharp contact with a light brownish band (~2.5 cm thick), very fine grained at top, coarser (~1 mm grain size) at bottom.

UNIT 4A: APHYRIC BASALT

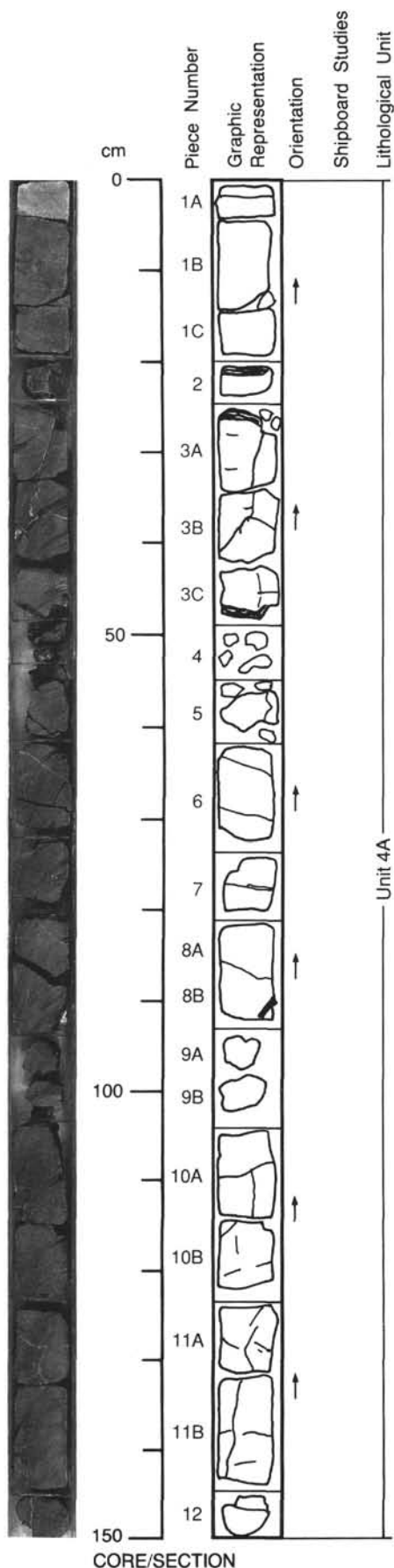
Pieces 4-8

CONTACTS: None.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained to glassy at margins.
VESICLES: Nonvesicular.
COLOR: Dark to medium gray with blotchy appearance in interior.
STRUCTURE: Pillow lava.
ALTERATION: Slight to moderate, some brown-red Fe-oxide staining.
VEINS/FRACTURES: <1%; 1-2 mm; several at 30°-45°; calcite and brown clay and/or Fe-oxides; glass altered to celadonite (?) and brown clay.

UNIT 4A: APHYRIC BASALT

Pieces 9-12

CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - <1%; 3 mm; very rare subhedral laths.
GROUNDMASS: Fine grained to glassy at margins.
VESICLES: Nonvesicular.
COLOR: Medium gray to dark gray.
STRUCTURE: Pillow lava.
ALTERATION: Slight to moderate, blotchy alteration in Piece 10A.
VEINS/FRACTURES: <1%; 0.5-2 mm; near vertical; calcite filled, small amounts of green mineral and dark brown Fe-oxides and/or clay.

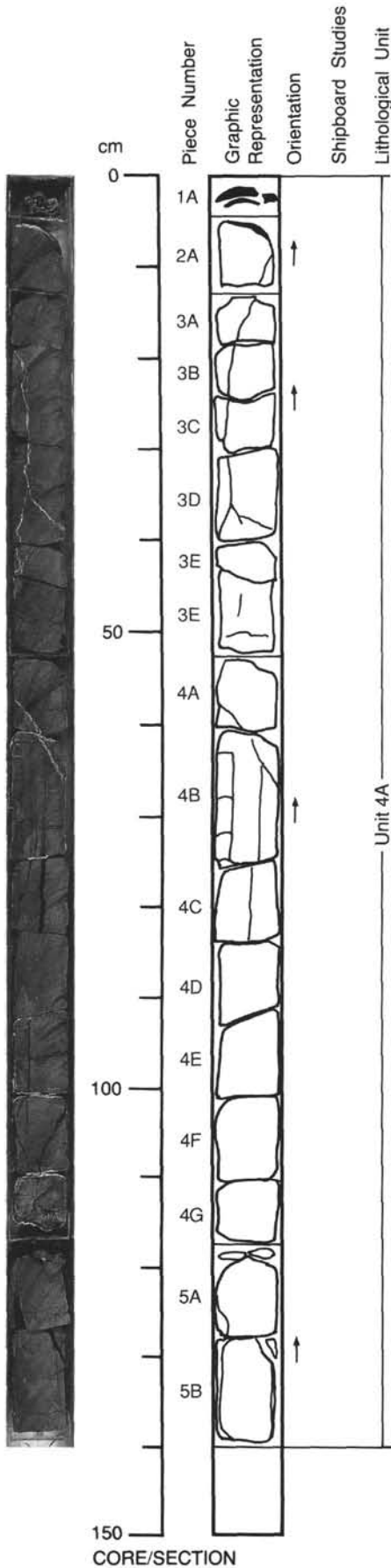


CORE/SECTION

130-807C-74R-3

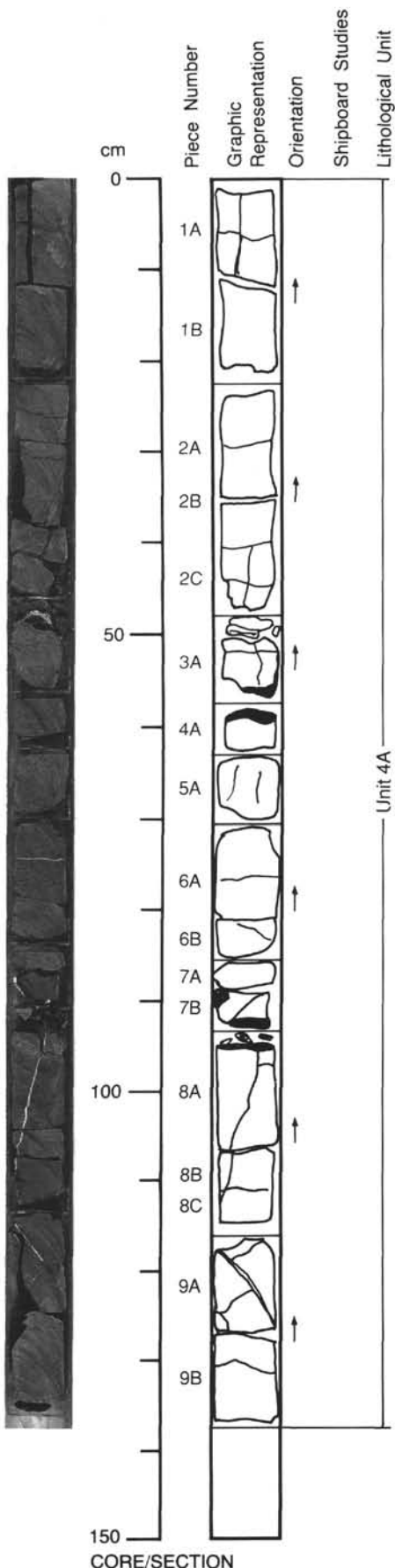
UNIT 4A: APHYRIC BASALT

Pieces 1-5



CONTACTS: Top of pillow.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained with glassy top margin, coarsening towards bottom.
VESICLES: Nonvesicular.
COLOR: Medium to dark gray.
STRUCTURE: Pillow top, massive. interior.
ALTERATION: Slight to moderate, staining near vertical fractures.
VEINS/FRACTURES: <1%; 1-3 mm; vertical and at ~ 60°; calcite and olive green mineral.

130-807C-74R-4



UNIT 4A: APHYRIC BASALT

Pieces 1-3

CONTACTS: None.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained with glassy margin at bottom.
VESICLES: Nonvesicular.
COLOR: Dark gray.
STRUCTURE: Massive top, chilled bottom.
ALTERATION: Slight to moderate, gray staining near veins.
VEINS/FRACTURES: <1%; 0.5-5 mm; mostly subhorizontal; calcite, celadonite (?), brown clay and/or Fe-oxides.

UNIT 4A: APHYRIC BASALT

Pieces 4-7

CONTACTS: None.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained with glassy margins.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Pillow lava.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <1%; up to 2 mm; subvertical to subhorizontal; calcite.

UNIT 4A: APHYRIC BASALT

Pieces 8, 9

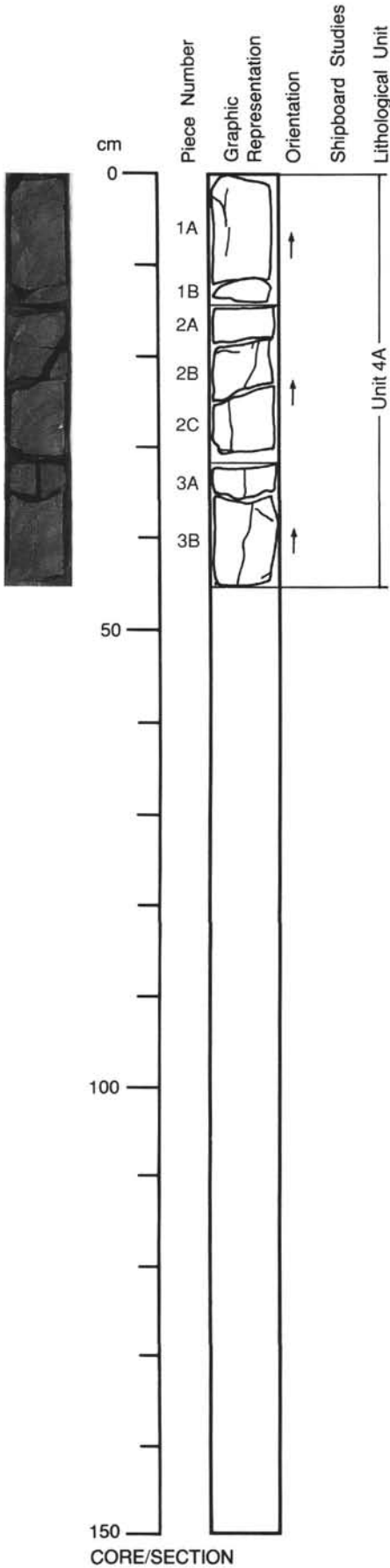
CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - <1%; up to 3 mm; euhedral laths.
GROUNDMASS: Fine grained, glassy top.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Pillow to massive.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <1%; 2-3 mm; subvertical to 45°; calcite.

130-807C-74R-5

UNIT 4A: APHYRIC BASALT

Pieces 1-3

CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - <1%; 2 mm; euhedral laths.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight.
VEINS/FRACTURES: <1%; ~0.5 mm; subvertical; calcite.



130-807C-75R-1

UNIT 4A: APHYRIC BASALT

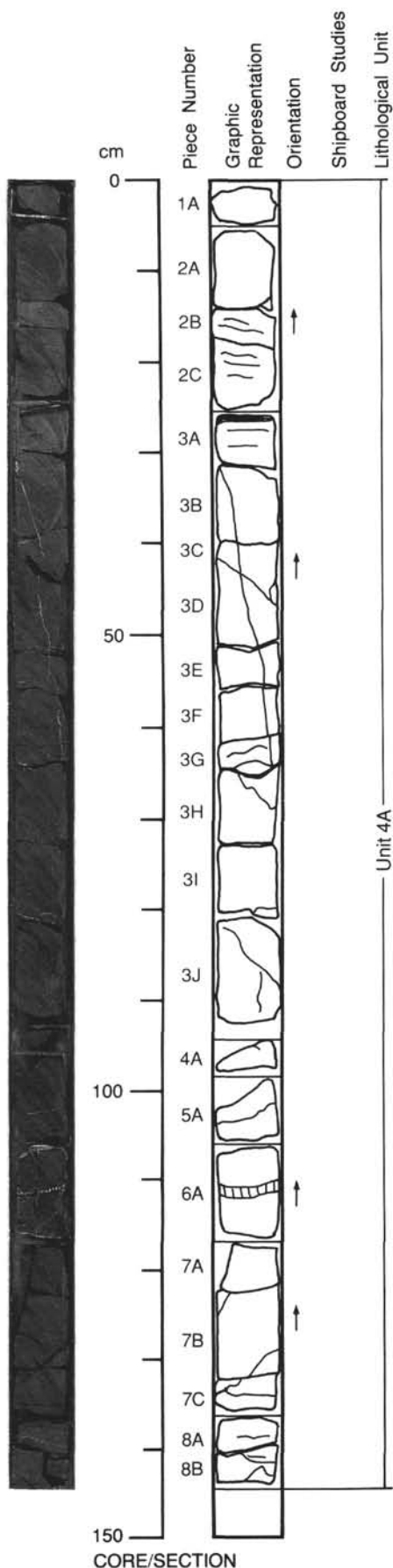
Pieces 1, 2

CONTACTS: None.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained, horizontal flow banding in Pieces 2B and 2C.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <1%; <0.5 mm; irregular; calcite, clay and or Fe-oxides.

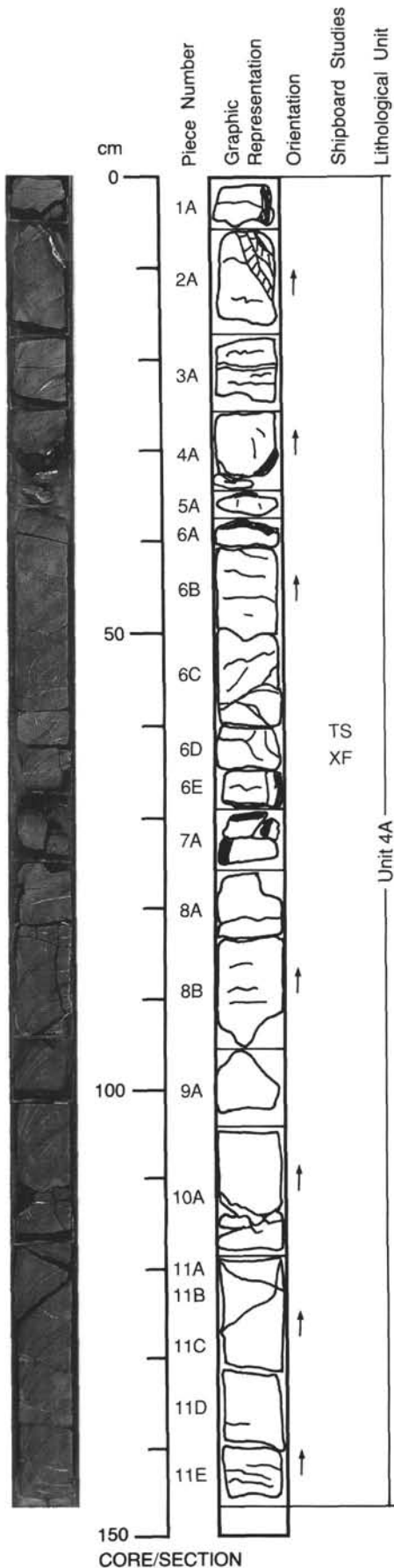
UNIT 4A: APHYRIC BASALT

Pieces 3-8

CONTACTS: None.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Glassy at top of Piece 3, otherwise fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <1%; ~1-2 mm; subhorizontal to subvertical; calcite with minor clay and chlorite (?).



130-807C-75R-2



UNIT 4A: APHYRIC BASALT

Pieces 1-4

CONTACTS: None.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained to glassy at margins.
VESICLES: Piece 3 contains 3 mm calcite, chlorite (?) and clays filled vesicle.
COLOR: Medium gray with slight brown-red staining in a few patches.
STRUCTURE: Pillow.
ALTERATION: Moderate; glass altered to bright blue-green and dark green minerals.
VEINS/FRACTURES: <1%; 0.5-1 mm; subhorizontal; calcite and dark green and brown clays and/or Fe-oxides; Piece 2 has 5 mm calcite vein in glass.

UNIT 4A: APHYRIC BASALT

Pieces 5, 6

CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - <1%; ~1 mm; euhedral.
GROUNDMASS: Fine grained, glass at margins.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Pillow.
ALTERATION: Slight to moderate, freshest near glassy margins.
VEINS/FRACTURES: <1%; 0.5- 1 mm; various; brown clay or Fe-oxide, dark blue-green clay; one vug filled with olive-green mineral (epidote?).
ADDITIONAL COMMENTS: Piece 5 is inter-pillow calcite with a greenish mineral (chlorite?, smectite?).

UNIT 4A: APHYRIC BASALT

Pieces 7-11

CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - <<1%; ~ 1; euhedral.
GROUNDMASS: Fine grained near glassy top of Piece 7; coarser in interior of flow.
VESICLES: Nonvesicular, but one ~5 mm amygdule filled with calcite, dark green clay and olive-green mineral (epidote?).
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Moderate.
VEINS/FRACTURES: <1%; 0.5-2 mm; subhorizontal; green clay.

130-807C-75R-3

UNIT 4A: APHYRIC BASALT

Pieces 1-3

CONTACTS: None.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray with green and brown blotches.
STRUCTURE: Pillow?
ALTERATION: Moderate to high.
VEINS/FRACTURES: <1%; up to 5 mm; varied orientation; calcite and minor dark green mineral.

UNIT 4A: APHYRIC BASALT

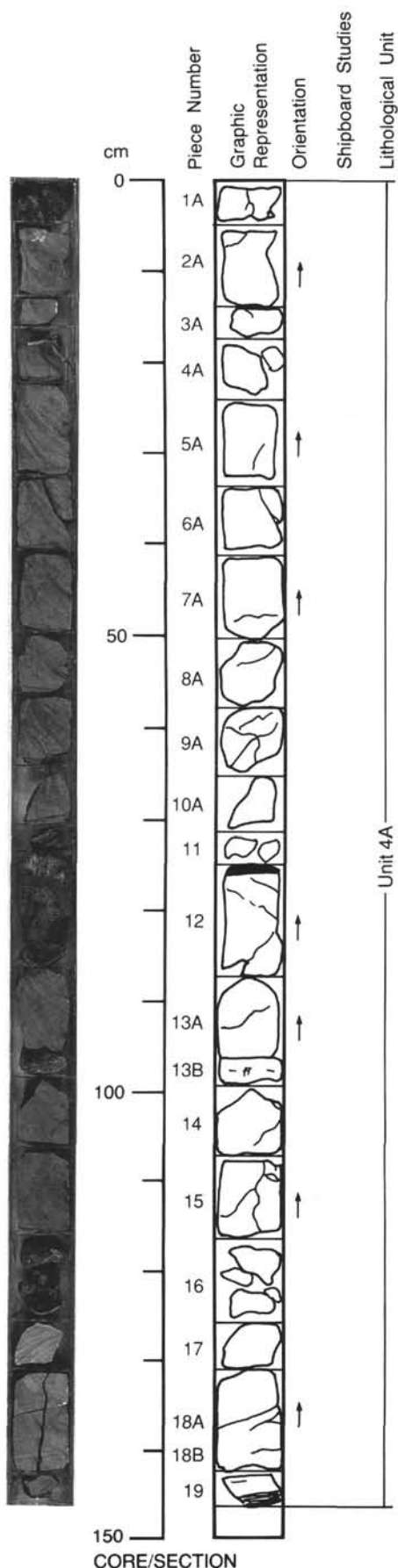
Pieces 4-11

CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - <<1%; ~1 mm; cluster of euhedral laths.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium to dark gray, mottled in places.
STRUCTURE: Massive.
ALTERATION: Moderate.
VEINS/FRACTURES: <1%; ~0.5 mm; varied orientation; calcite with lesser brown clay and/or Fe-oxides.

UNIT 4A: APHYRIC BASALT

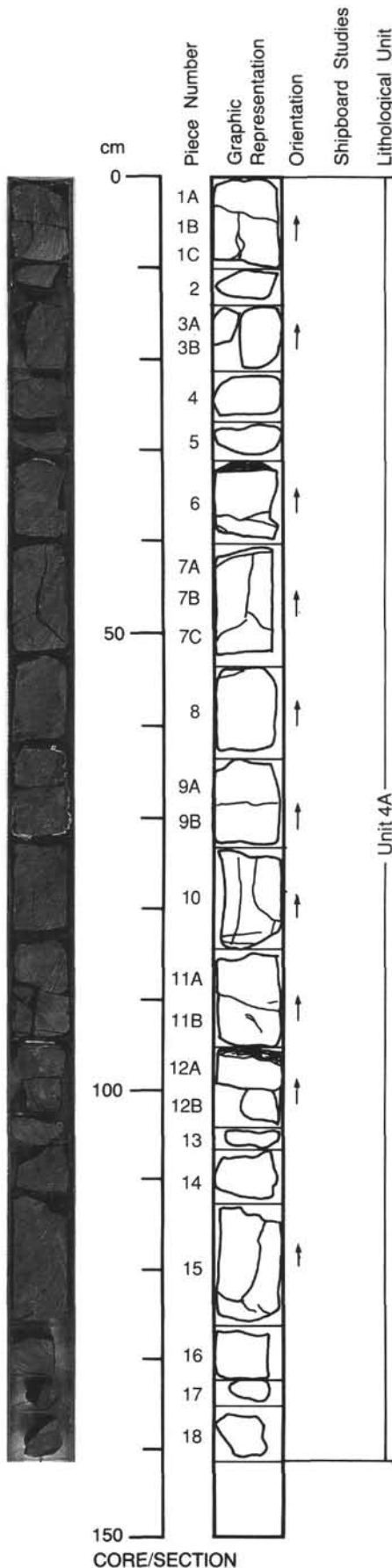
Pieces 12-19

CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - <1%; 1-3 mm; euhedral.
GROUNDMASS: Fine grained with glassy top and bottom.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Pillow to massive.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <1%; 0.5-1 mm; varied orientation; calcite and minor green clay.



CORE/SECTION

130-807C-75R-4



UNIT 4A: APHYRIC BASALT

Pieces 1-5

CONTACTS: None.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <<1%; 0.5 mm; vertical; calcite, brown clay and/or Fe oxide.

UNIT 4A: APHYRIC BASALT

Pieces 6-11

CONTACTS: None.
PHENOCRYSTS: Very rare.
 Plagioclase - <<1%; 1-2 by 0.5-1 mm; euhedral.
GROUNDMASS: Fine grained, glassy at top of Piece 6.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Pillow lava.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <1%; 0.5-1 mm; subvertical to subhorizontal; calcite veins.

UNIT 4A: APHYRIC BASALT

Pieces 12-18

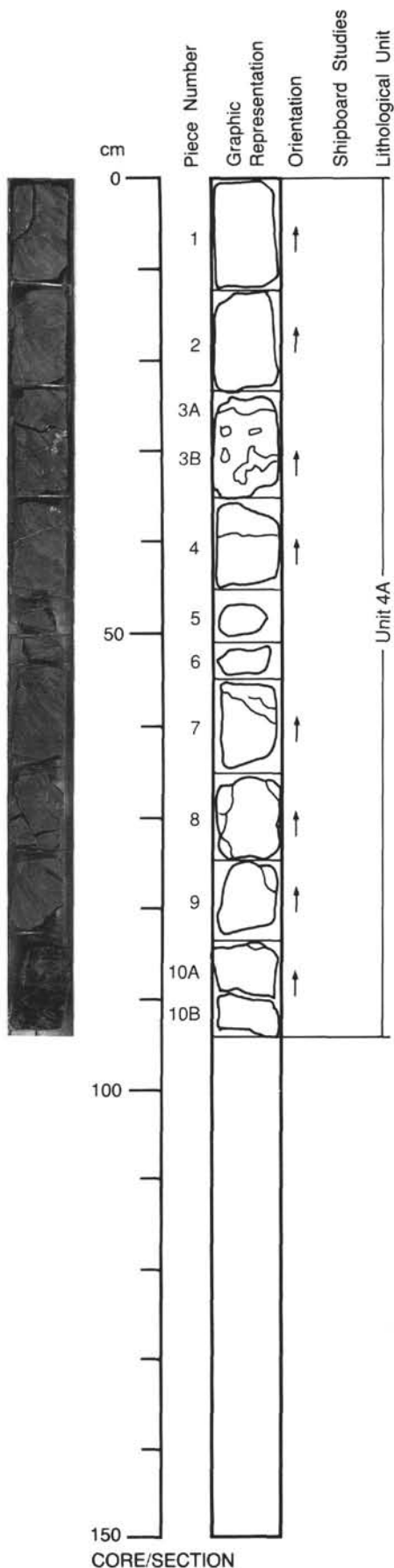
CONTACTS: None.
PHENOCRYSTS: Very rare.
 Plagioclase - <<1%; 1-2 by 0.5 mm; euhedral.
GROUNDMASS: Fine grained, glassy at top of Piece 12.
VESICLES: Nonvesicular.
COLOR: Medium to dark gray, mottled in upper part.
STRUCTURE: Massive.
ALTERATION: Slight to moderate, some blotchy alteration.
VEINS/FRACTURES: <<1%; 0.5-1 mm; varied orientation; calcite and clay filled.

130-807C-75R-5

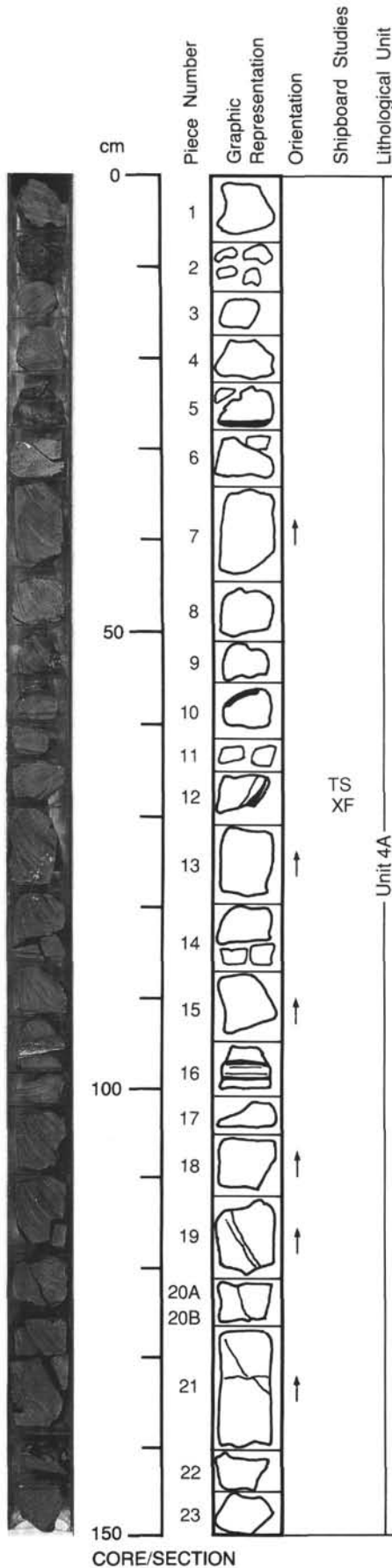
UNIT 4A: APHYRIC BASALT

Pieces 1-10

CONTACTS: None.
PHENOCRYSTS: Rare.
Plagioclase - <<1%; 1-2 by 4-2 mm; euhedral to subhedral.
GROUNDMASS: Fine grained.
VESICLES: Irregular amygdules filled with calcite and green clay in Pieces 3 and 4.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <<1%; 0.5 mm; subhorizontal; calcite and light green clay.



130-807C-76R-1



UNIT 4A: APHYRIC BASALT

Pieces 1-5

CONTACTS: None.
PHENOCRYSTS: Sparse.
 Plagioclase - <<1%; 2 mm; subhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Pillow lava.
ALTERATION: Moderate, slightly blotchy.
VEINS/FRACTURES: <<1%; 0.5 mm; varied orientation; calcite and clay filled.

UNIT 4A: APHYRIC BASALT

Pieces 6-9

CONTACTS: None.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Pillow lava.
ALTERATION: Moderate.
VEINS/FRACTURES: <<1%; 0.5-1 mm; varied orientation; calcite, clay and/or Fe-oxide.

UNIT 4A: APHYRIC BASALT

Pieces 10-15

CONTACTS: None.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained, glassy at top and bottom.
VESICLES: In Pieces 13 and 14 sparse, irregular amygdules (1-5 mm), calcite and clay filled.
COLOR: Medium gray, slight blotchy texture lower down.
STRUCTURE: Pillow lava.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: Sparse, radial fractures.

UNIT 4A: APHYRIC BASALT

Pieces 16-23

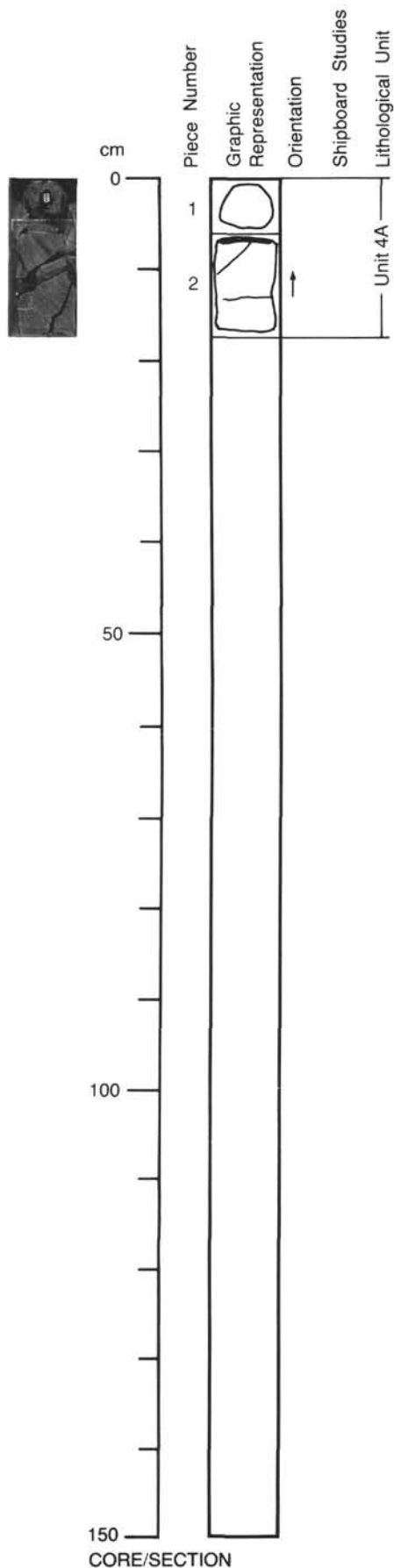
CONTACTS: None.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained, glassy upper margin on Piece 16.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Pillow lava.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: Mostly unfractured, a little clay filling.

130-807C-76R-2

UNIT 4A: APHYRIC BASALT

Pieces 1-2

CONTACTS: Glassy on one margin.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained, glassy margin on Piece 2.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Pillow lava fragments.
ALTERATION: Moderate.
VEINS/FRACTURES: <<1%; ~0.5 mm; varied orientation; calcite with some brown and dark green clay.



130-807C-77R-1

UNIT 4A: APHYRIC BASALT

Pieces 1-3

CONTACTS: None.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Pillow lava.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <<1%; 1-2 mm thick; varied orientation; calcite and minor dark green and brown clay.

UNIT 4A: APHYRIC BASALT

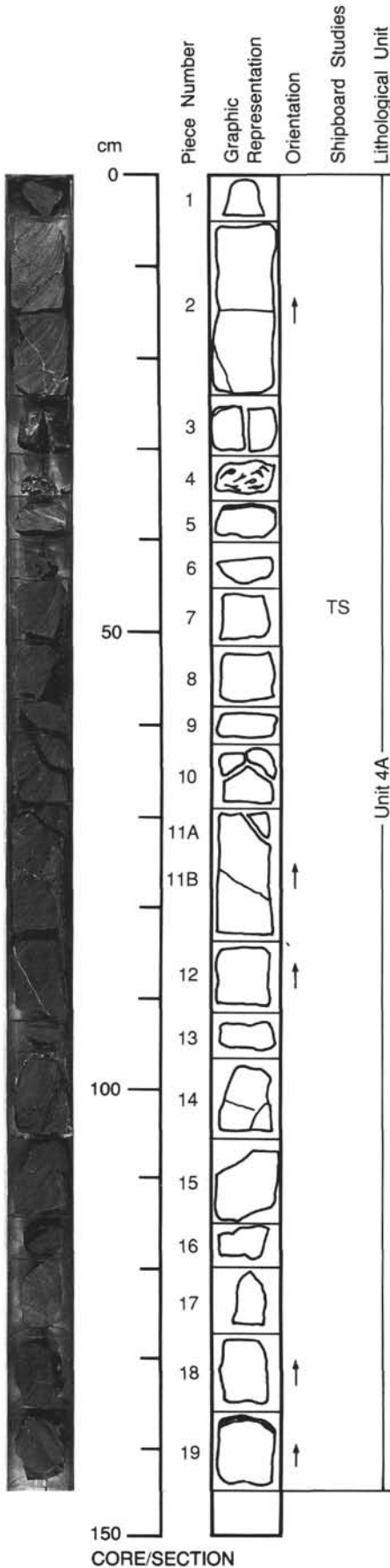
Pieces 4-18

CONTACTS: Glass.
PHENOCRYSTS: Very sparse.
 Plagioclase - <<1%; ~1 mm; subhedral.
 Clinopyroxene - <<1%; ~1 mm; subhedral.
GROUNDMASS: Fine grained, glass at top.
VESICLES: Nonvesicular.
COLOR: Medium to dark gray.
STRUCTURE: Pillow lava.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <<1%; 0.5-2 mm thick; varied; calcite with minor clay.
ADDITIONAL COMMENTS: Piece 4 is an inter-pillow breccia of glass shards (pillow rim), ~1.5 cm long, moderately fresh to very altered, in calcite matrix.

UNIT 4A: APHYRIC BASALT

Piece 19

CONTACTS: Glass.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Glassy to fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Pillow top.
ALTERATION: Slight.
VEINS/FRACTURES: <<1%; ~0.5 mm thick; varied orientation; calcite with minor clay.



130-807C-77R-2

UNIT 4A: APHYRIC BASALT

Pieces 1-6

CONTACTS: None.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained to glassy margins (Pieces 5 and 6).
VESICLES: Nonvesicular.
COLOR: Medium gray with brown-green color patches.
STRUCTURE: Pillow lava.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <<1%; 1-2 mm thick; varied orientation; minor clay and calcite filling.

UNIT 4A: APHYRIC BASALT

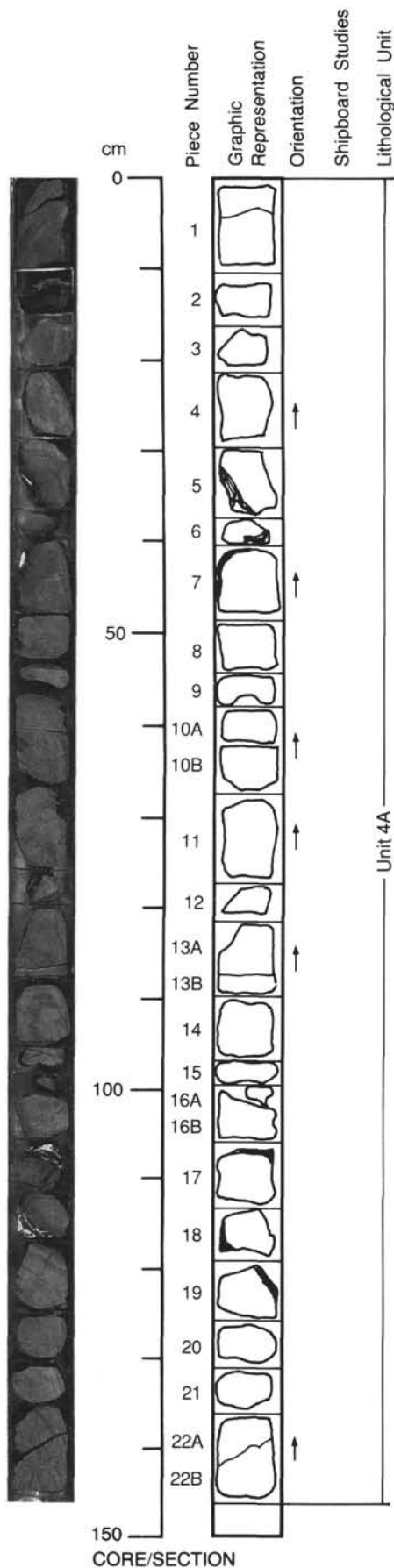
Pieces 7-16

CONTACTS: Glass.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained, glassy rim on Piece 7.
VESICLES: Nonvesicular.
COLOR: Medium to light gray, slight amount of greenish staining.
STRUCTURE: Pillow lava.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <<1%; <0.5 mm; varied orientation; fractures with minor clay; calcite near glass on Piece 7.

UNIT 4A: APHYRIC BASALT

Pieces 17-22

CONTACTS: Glass.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained to glassy at the rims.
VESICLES: Nonvesicular.
COLOR: Light to medium gray.
STRUCTURE: Pillow lava.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <<1%; <0.5 mm; varied orientation; fractures with minor calcite and brown clay; calcite matrix invades glassy rims on Pieces 17, 18, 19.



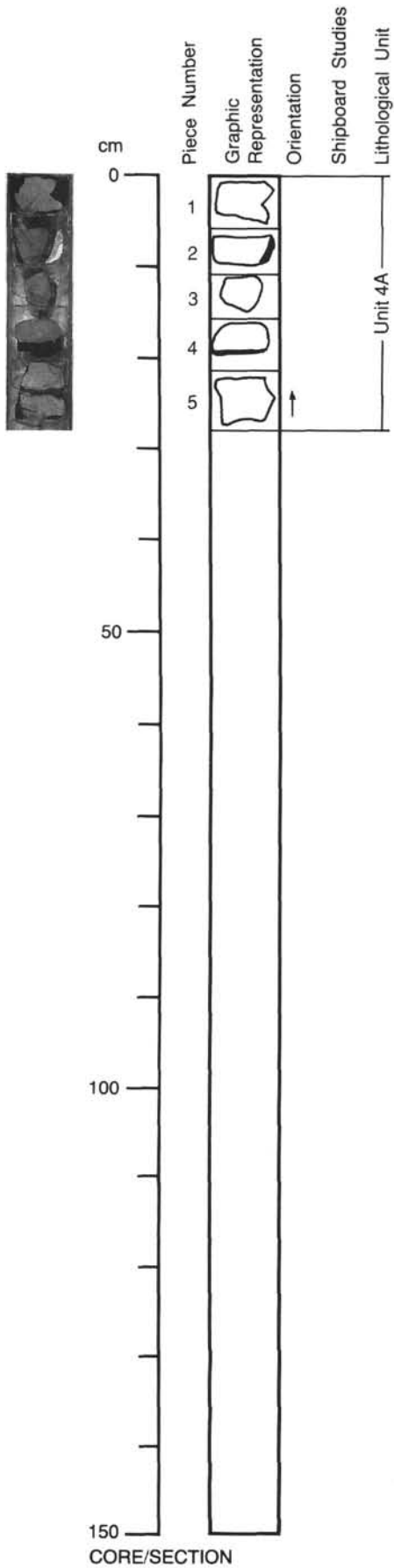
CORE/SECTION

130-807C-77R-3

UNIT 4A: APHYRIC BASALT

Pieces 1-5

CONTACTS: None.
PHENOCRYSTS: Sparse.
 Plagioclase - <1%; 2-3 mm; euhedral.
GROUNDMASS: Glassy to fine grained.
VESICLES: Nonvesicular.
COLOR: Medium to light gray.
STRUCTURE: Pillow.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <<1%; 0.5 mm or less; varied orientation; calcite veins with minor clay; inter-pillow calcite on glass rim of Piece 2.



130-807C-78R-1

UNIT 4A: APHYRIC BASALT

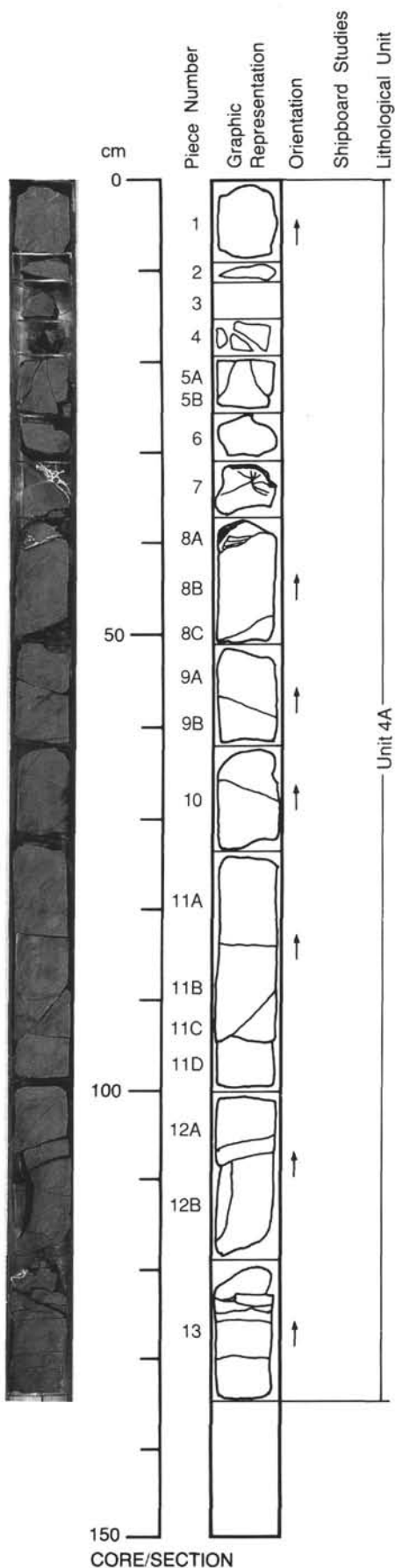
Pieces 1-6

CONTACTS: None.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Thick pillow or massive flow.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <<1%; <0.5 mm; subvertical.

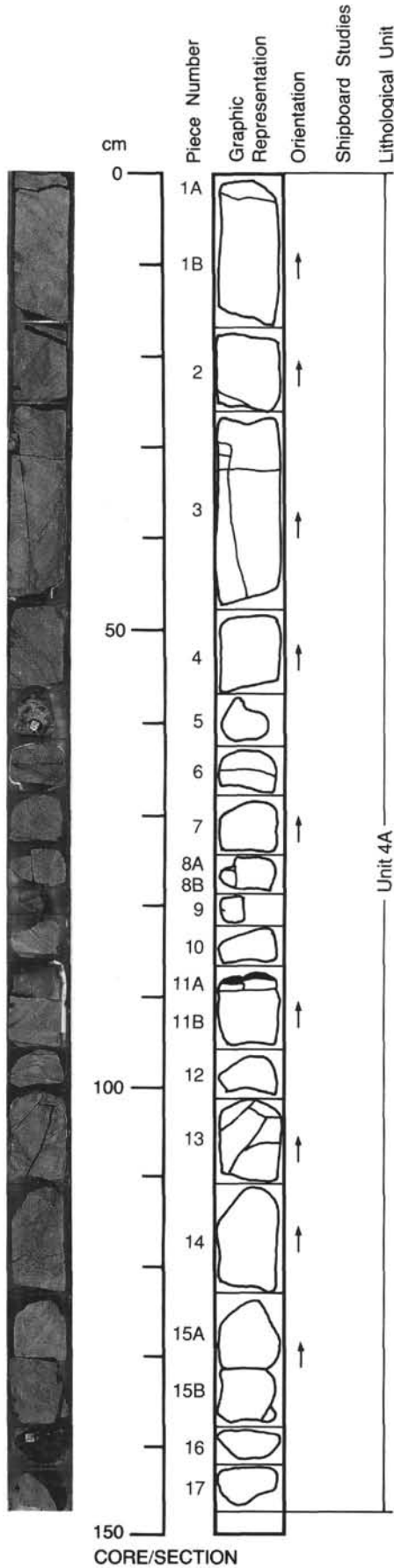
UNIT 4A: APHYRIC BASALT

Pieces 7-13

CONTACTS: Glass.
PHENOCRYSTS: Very rare.
 Plagioclase - <<1%; ~1 mm; subhedral.
GROUNDMASS: Fine grained, glassy at top.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <<1%; ~1-3 mm thick; varied orientation; calcite near glassy top, contains minor green clays; fractures sparse, with minor brown clay and/or iron oxide.



130-807C-78R-2



UNITS 4A: APHYRIC BASALT

Pieces 1-10

CONTACTS: None.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <<1%; <0.5 mm; subvertical to subhorizontal; fractures with minor clay.

UNITS 4A: APHYRIC BASALT

Pieces 11-17

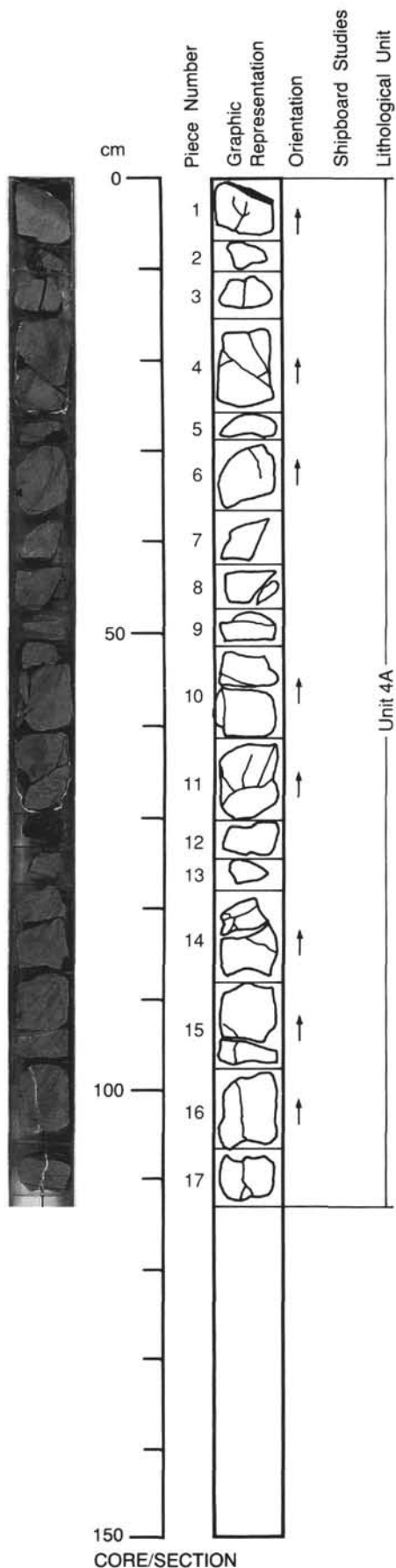
CONTACTS: Glass.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight.
VEINS/FRACTURES: <<1%; <0.5 mm thick; varied orientation; fractures with minor clay and calcite.

130-807C-78R-3

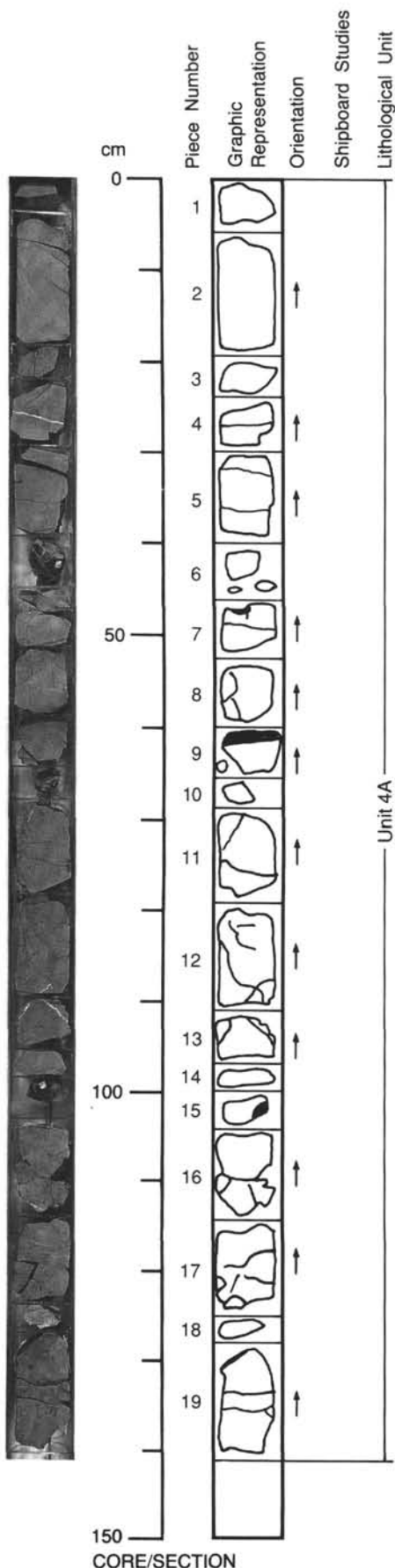
UNITS 4A: APHYRIC BASALT

Pieces 1-17

CONTACTS: Glass.
PHENOCRYSTS: Very sparse.
 Plagioclase - <<1%; ~2 mm across; euhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Light to medium gray.
STRUCTURE: Massive with pillow top.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <<1%; 1-2 mm thick; horizontal and vertical; calcite and clay veins, one horizontal 0.5-mm-thick red-brown Fe-oxide or clay (?) vein.



130-807C-79R-1



UNIT 4A: APHYRIC BASALT

Pieces 1-6

CONTACTS: None.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight.
VEINS/FRACTURES: <<1%; 1-2 mm; varied orientation; calcite.

UNIT 4A: APHYRIC BASALT

Pieces 7,8

CONTACTS: Glass.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained to glassy (Piece 7).
VESICLES: Nonvesicular.
COLOR: Medium to dark gray.
STRUCTURE: Pillow.
ALTERATION: Slight.
VEINS/FRACTURES: None.

UNIT 4A: APHYRIC BASALT

Pieces 9-14

CONTACTS: Glass.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained to glassy (Piece 9).
VESICLES: Nonvesicular.
COLOR: Medium to dark gray.
STRUCTURE: Pillow to massive.
ALTERATION: Slight.
VEINS/FRACTURES: 2%; 0.5 - 2 mm; varied orientation; calcite and green and brown clay.

UNIT 4A: APHYRIC BASALT

Pieces 15-17

CONTACTS: Glass.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Light to medium gray.
STRUCTURE: Pillow.
ALTERATION: Moderate.
VEINS/FRACTURES: 2-3%; 1-2 mm; varied orientation; calcite and clay.

UNIT 4A: APHYRIC BASALT

Pieces 18,19

CONTACTS: Glass.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained to glassy.
VESICLES: Nonvesicular.
COLOR: Light to dark gray.
STRUCTURE: Pillow.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: ~1%; 0.5 mm; varied orientation; green clay.
ADDITIONAL COMMENTS: Piece 18 is a breccia consisting of green altered basalt fragments in a calcite and clay matrix.

130-807C-79R-2

UNIT 4A: APHYRIC BASALT

Pieces 1-7

CONTACTS: Glass.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained; Piece 1 has a glassy rim.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive with pillow top.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <1%; 0.5-4 mm; varied orientation; calcite and clay.

UNIT 4A: APHYRIC BASALT

Pieces 8-12

CONTACTS: Glass.
PHENOCRYSTS: Very rare.
 Plagioclase - <1%; 1-2 mm; euhedral laths.
GROUNDMASS: Fine grained; Piece 8 has glassy rim.
VESICLES: Nonvesicular.
COLOR: Light to dark gray.
STRUCTURE: Massive with pillow top.
ALTERATION: Moderate.
VEINS/FRACTURES: 2-3%; 0.5-4 mm; varied orientation; calcite and clay.

UNIT 4A: APHYRIC BASALT

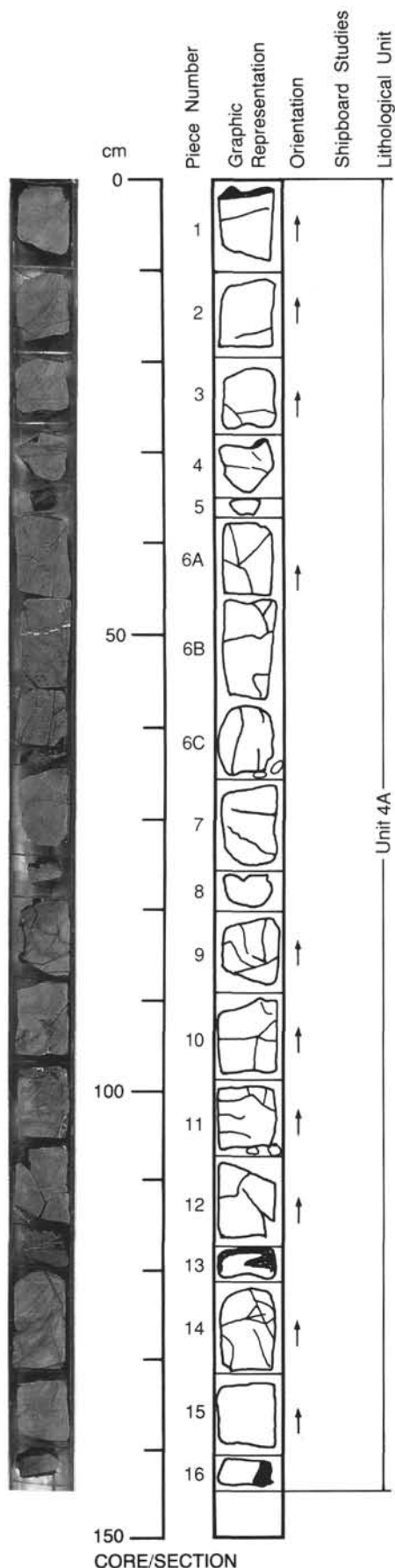
Pieces 13-15

CONTACTS: Glass.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Pillow.
ALTERATION: Moderate.
VEINS/FRACTURES: 2-3%; 0.3-3 mm; varied orientation; calcite, green and brown clay.

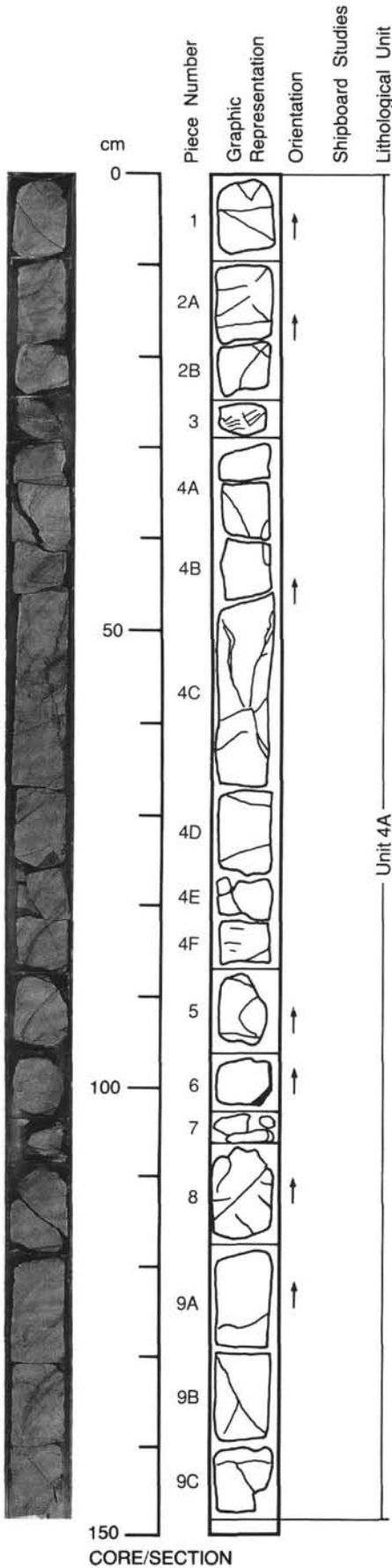
UNIT 4A: APHYRIC BASALT

Piece 16

CONTACTS: None.
PHENOCRYSTS: Very rare.
 Plagioclase - <1%; 1 mm; euhedral laths.
GROUNDMASS: Fine grained, glassy rim.
VESICLES: Nonvesicular.
COLOR: Medium to dark gray.
STRUCTURE: Pillow.
ALTERATION: Moderate.
VEINS/FRACTURES: <1%; 0.5-1 mm; varied orientation; calcite and clay.



130-807C-79R-3



UNIT 4A: APHYRIC BASALT

Pieces 1,2

CONTACTS: None.
PHENOCRYSTS: Very rare.
 Plagioclase - <1%; 1 mm; euhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Gray green, purplish gray.
STRUCTURE: Massive.
ALTERATION: Moderate to high.
VEINS/FRACTURES: 2-3%; 0.3-1 mm; mostly subhorizontal; green and brown clays.

UNIT 4A: APHYRIC BASALT

Pieces 3-5

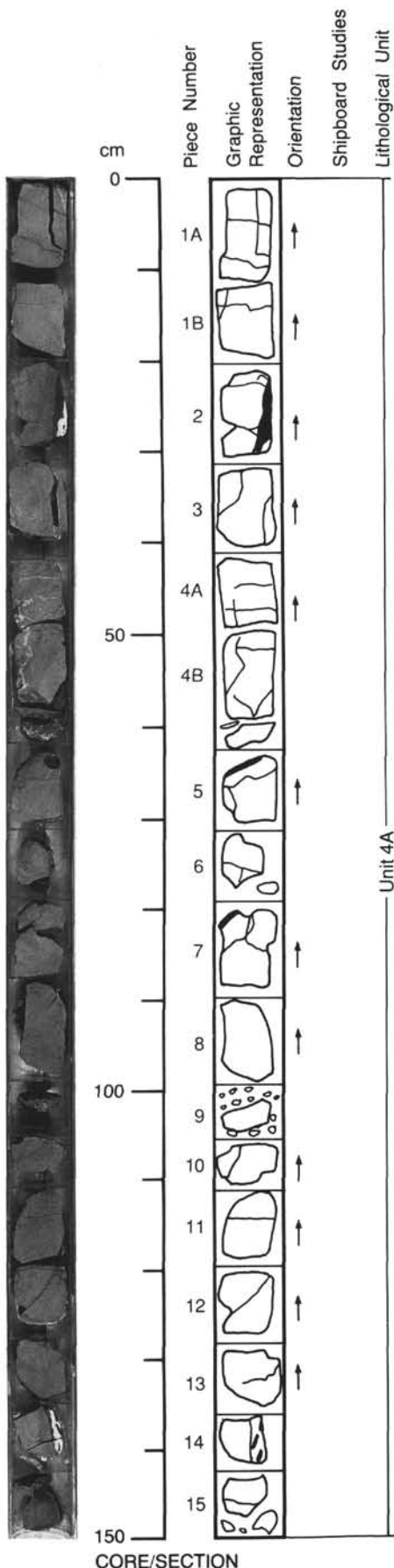
CONTACTS: None.
PHENOCRYSTS: Very rare.
 Plagioclase - <<1%; ~1 mm; euhedral laths.
GROUNDMASS: Fine grained, fining towards top of Piece 3.
VESICLES: Nonvesicular.
COLOR: Medium gray
STRUCTURE: Massive.
ALTERATION: Moderate.
VEINS/FRACTURES: 2-3%; 0.3-4 mm; mostly subhorizontal; mainly clay.

UNIT 4A: APHYRIC BASALT

Pieces 6-9

CONTACTS: None.
PHENOCRYSTS: Very rare.
 Plagioclase - <1%; 1-2 mm; euhedral laths.
GROUNDMASS: Fine grained. Piece 6 has glassy margin.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: 1%; 0.5-1 mm; varied orientation; green and brown clay.
ADDITIONAL COMMENTS: Piece 8 contains a 10 mm aggregate of plagioclase phenocrysts.

130-807C-79R-4



UNIT 4A: APHYRIC BASALT

Pieces 1-4

CONTACTS: None.
PHENOCRYSTS: Very rare.
 Plagioclase - <<1%; 1-2 mm; euhedral laths.
GROUNDMASS: Fine grained to glassy (Piece 2).
VESICLES: Nonvesicular.
COLOR: Medium to dark gray.
STRUCTURE: Pillow lava.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: 1-2%; 0.5-10 mm; varied orientation; clay and calcite

UNIT 4A: APHYRIC BASALT

Pieces 5-13

CONTACTS: Glass.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained to glassy (Pieces 5, 6, and 7).
VESICLES: Nonvesicular.
COLOR: Medium to dark gray.
STRUCTURE: Massive.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <1%; 0.5-1 mm; varied orientation; clays.

UNIT 4A: APHYRIC BASALT

Pieces 14, 15

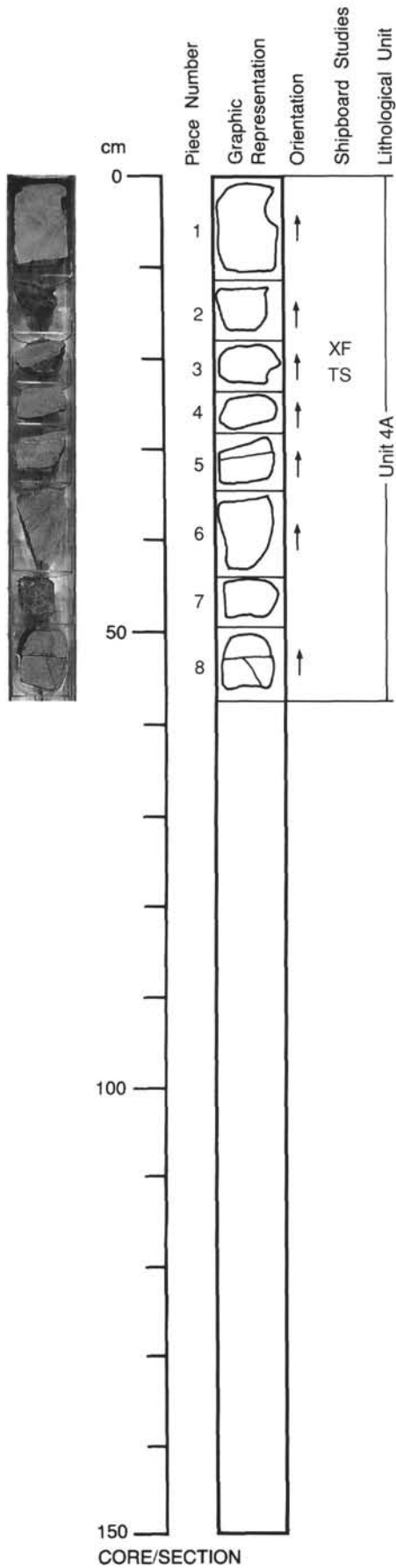
CONTACTS: None.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained, glassy margin.
VESICLES: Nonvesicular.
COLOR: Gray.
STRUCTURE: Pillow margin fragments.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <1%; <0.5 mm; varied orientation; Piece 14 has breccia margin of altered glass shards up to 1.5 cm long in calcite matrix.

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UNIT 4A: APHYRIC BASALT

Pieces 1-8

CONTACTS: None.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium to dark gray.
STRUCTURE: Massive.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <1%; up to 2 mm; subhorizontal; calcite and clay.



130-807C-80R-1

SUBDIVISION 4A: APHYRIC BASALT

Piece 1

CONTACTS: None.
PHENOCRYSTS: Aphyric.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight.
VEINS/FRACTURES: <1%; 0.3 mm; varied orientation; brown clay.

UNIT 4A: APHYRIC BASALT

Pieces 2-4

CONTACTS: Glass.
PHENOCRYSTS: Aphyric.
 Plagioclase - <1%; up to 3 mm; euhedral laths.
GROUNDMASS: Fine grained, glassy at top of Piece 2A.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: 2-3%; up to 2 mm; varied orientation; calcite and clay filled; Pieces 2B and 2C contain irregular vugs up to 4 cm in width, infilled with calcite, quartz, zeolites(?), green mineral. Rim of vug consists of 5-mm-thick dark-green clay

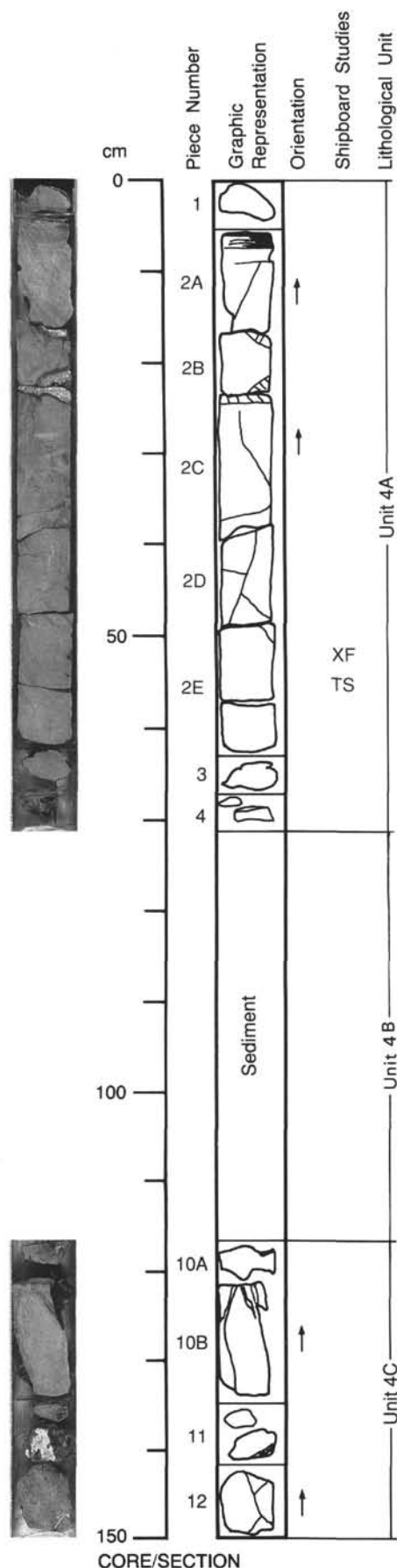
UNIT 4B: SEDIMENT

COMMENTS: Major lithology: Breccia pieces of LIMESTONE interbedded with CLAYEY VITRIC TUFF with OXIDES comprise the material in section 1, 70-120 cm. The limestone is white (10YR 8/1 to 10YR 8/2) and contains angular fragments and clasts of altered vitric tuff and basaltic glass. Rounded fragments of altered vitric tuff, 1-2 mm thick concentrations of carbonate, and lensoid concentrations of sandsized grains, including vitric tuff and basaltic clasts, are also observed. Some pieces have fracture fills of sparry calcite. The clayey vitric tuff is dark reddish brown (5YR 3/3) to reddish brown (5YR 4/3). The clays are probably smectite. One piece of the tuff contains long, vertical and horizontal, carbonate-filled fractures, up to 1 cm wide, and angular vitric tuff clasts.

UNIT 4C: APHYRIC BASALT

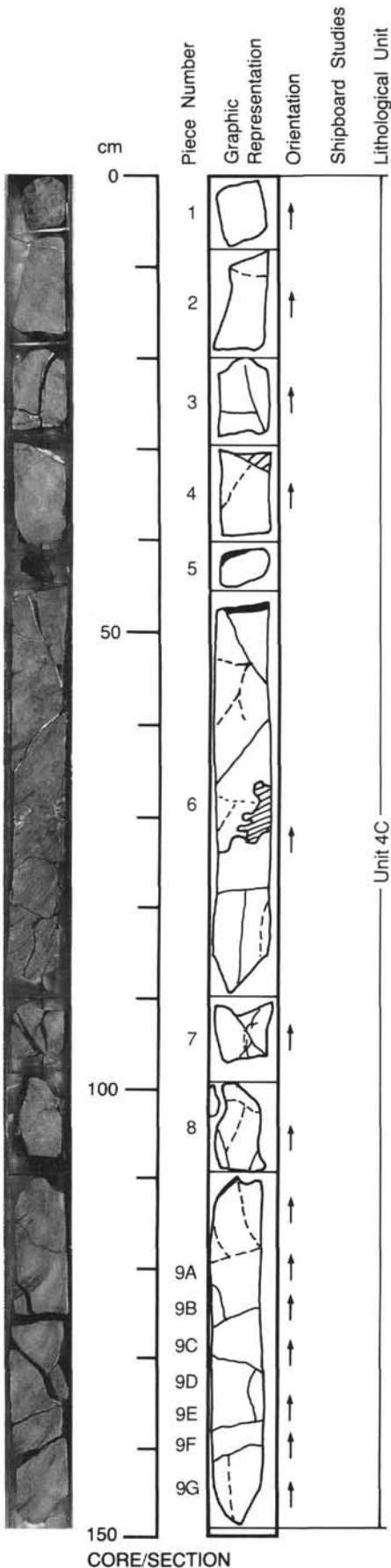
Pieces 10-12

CONTACTS: None.
PHENOCRYSTS:
 Olivine - ~1%; up to 1 mm; subhedral to euhedral.
 Clinopyroxene? - <1%; ~1 mm; subhedral to euhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Light to medium gray; top 1-2 cm of Piece 10B is yellow-brown.
STRUCTURE: Massive.
ALTERATION: Moderate; top of Piece 10B is highly altered to highly weathered, top of flow.
VEINS/FRACTURES: 1-2%; 0.5-3 mm; subvertical to subhorizontal; calcite, brown clay, red-brown mineral (Fe-oxides?) stains on some fracture surfaces.



CORE/SECTION

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UNIT 4C: APHYRIC BASALT

Pieces 1-4

CONTACTS: None.
PHENOCRYSTS: Olivine? - ~1%; 0.5-1.5 mm; subhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight to high (in vicinity of veins).
VEINS/FRACTURES: 1-2%; 0.2-8 mm; subvertical to subhorizontal; calcite center, thin brown clay margin.

UNIT 4C: APHYRIC BASALT

Pieces 5-8

CONTACTS: Glass.
PHENOCRYSTS: Plagioclase - <1%; ~0.5 mm; euhedral to subhedral. Olivine? - ~1%; 0.5-1 mm; subhedral. Clinopyroxene? - <1%; 0.5-1 mm; subhedral.
GROUNDMASS: Fine grained; Pieces 5 and 6 have glassy margins at top.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight to high (in vicinity of veins).
VEINS/FRACTURES: 2-3%; 0.2-2 mm; subvertical to subhorizontal; conjugate set of veins at 60° in Piece 7; Piece 6 contains irregular shaped vugs up to 1.5 cm in width containing calcite and red-brown mineral (clay?).

UNIT 4C: APHYRIC BASALT

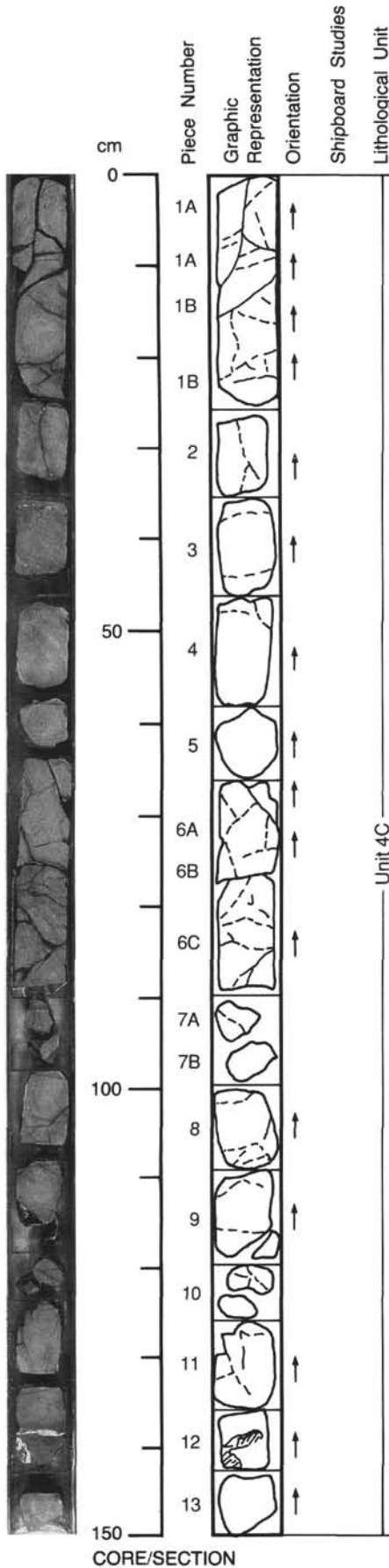
Piece 9

CONTACTS: Glass.
PHENOCRYSTS: Plagioclase - <1%; up to 1 mm; subhedral. Olivine? - ~1%; 0.3-1 mm; subhedral. Clinopyroxene? - <1%; 0.3-1 mm; subhedral.
GROUNDMASS: Fine grained, glassy margin at top.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: 1%; 0.5-2 mm; subvertical to subhorizontal; calcite and green-brown clay.

130-807C-80R-3

UNIT 4C: APHYRIC BASALT

Pieces 1-13



CONTACTS: None.

PHENOCRYSTS:

Plagioclase - <1%; up to 1 mm; subhedral to euhedral.

Olivine? - 1-3%; 0.3-1 mm; subhedral.

Clinopyroxene? - <1%; 0.3-1 mm; subhedral.

GROUNDMASS: Fine grained.

VESICLES: Nonvesicular.

COLOR: Medium to light gray, gray-green.

STRUCTURE: Massive.

ALTERATION: Slight to high.

VEINS/FRACTURES: <1-4%; <0.5-5 mm; varied orientation; mostly green-brown clay with some calcite. Piece 12 has ~2-cm-thick horizontal vein mainly consisting of calcite with dark green and brown-red minerals at vein/basalt contact. Pieces 1 and 6 have 3-4% veins.

130-807C-80R-4

UNIT 4C: APHYRIC BASALT

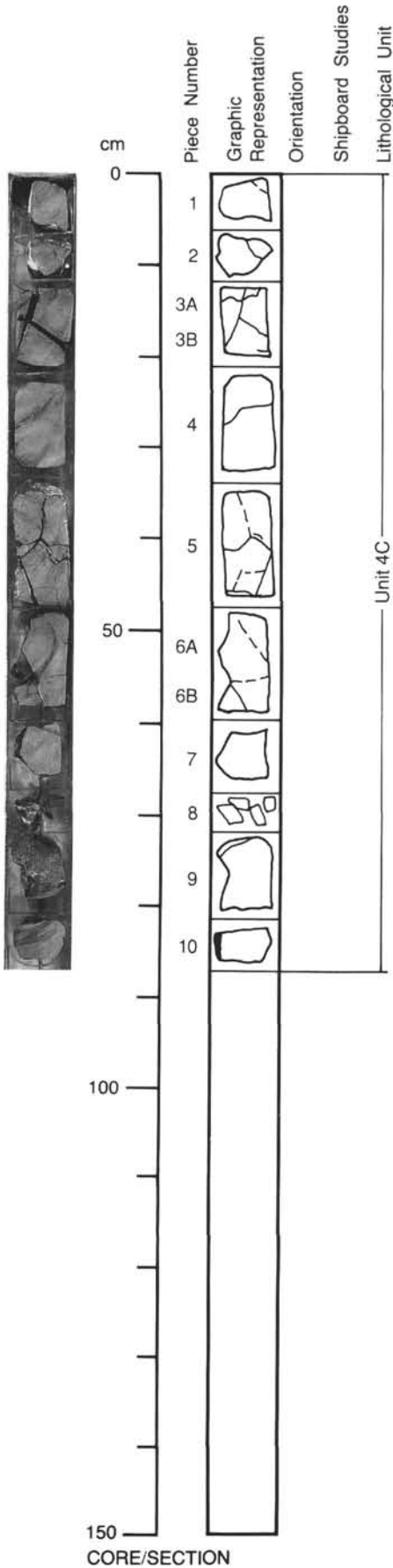
Pieces 1-9

CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - <1%; up to 1 mm; subhedral.
 Olivine? - ~1%; up to 1 mm; subhedral to euhedral laths.
 Clinopyroxene? - <1%; up to 1 mm; subhedral to euhedral laths.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium to light gray.
STRUCTURE: Massive.
ALTERATION: Slight to high.
VEINS/FRACTURES: <1-5%; <2 mm; varied orientation; calcite and brown clay, some fracture surfaces stained by green mineral.

UNIT 4C: APHYRIC BASALT

Piece 10

CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - <1%; up to 1 mm; subhedral to euhedral.
 Olivine? - ~1%; up to 1 mm; subhedral.
 Clinopyroxene? - <1%; up to 1 mm; subhedral.
GROUNDMASS: Fine grained with glassy margin.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Part of pillow?
ALTERATION: Slight.
VEINS/FRACTURES: None.



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UNIT 4C: APHYRIC BASALT

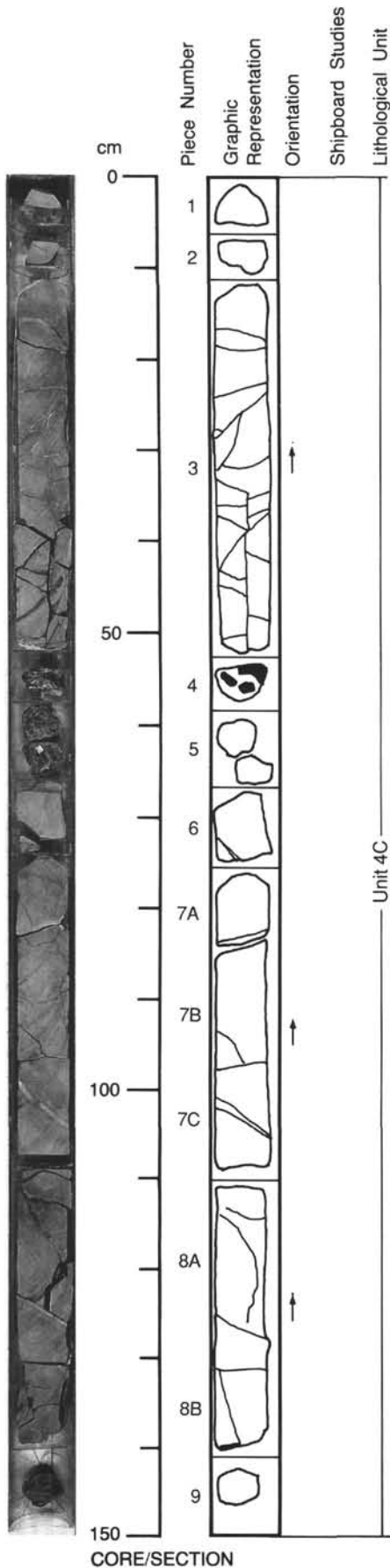
Pieces 1-3

CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - <1%; 1 mm; subhedral to euhedral laths.
 Olivine? - ~1%; 1 mm; subhedral to euhedral laths.
 Clinopyroxene? - <1%; 1 mm; subhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium to light gray to gray-green.
STRUCTURE: Massive.
ALTERATION: Slight to high.
VEINS/FRACTURES: Piece 3 heavily fractured (5%), subvertical to subhorizontal, filled with calcite and brown clay.

UNIT 4C: APHYRIC BASALT

Pieces 4-9

CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - <1%; 0.5-1 mm; subhedral to euhedral.
 Olivine? - ~1%; 1 mm; subhedral.
 Clinopyroxene? - <1%; 1 mm; subhedral.
GROUNDMASS: Fine grained to glassy (bottom of Piece 8B).
VESICLES: Non-vesicular.
COLOR: Medium to light gray.
STRUCTURE: Massive.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <5%; <0.5-6 mm; varied orientation; up to 5% in Pieces 7 and 8, filled by calcite with some clay and/or Fe-oxide.
ADDITIONAL COMMENTS: Piece 4 is a breccia consisting of angular, green altered glass fragments (celadonite?) up to 2 cm, in matrix of calcite and clay.



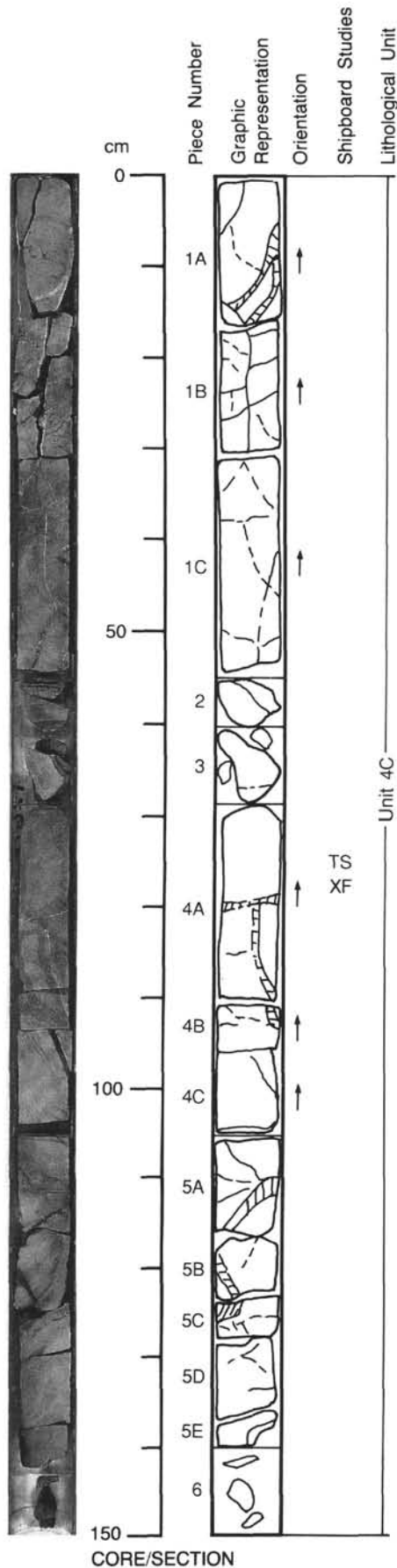
CORE/SECTION

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UNIT 4C: APHYRIC BASALT

Pieces 1-6

CONTACTS: None.
PHENOCRYSTS: Plagioclase - <1%; <1 mm; subhedral to euhedral laths.
 Olivine? - ~1%; 0.2-1 mm; subhedral.
 Clinopyroxene? - <1%; 0.2-1 mm; subhedral.
GROUNDMASS: Fine grained to glassy (top of Piece 1A, bottom of Pieces 5E and 6).
VESICLES: Nonvesicular.
COLOR: Dark to light gray.
STRUCTURE: Massive.
ALTERATION: Slight to high.
VEINS/FRACTURES: <1-7%; 0.2 - 8 mm; varied orientation; up to 7% in Piece 1B. Mostly calcite with some green and red-brown clay. Piece 5A has 8 mm red-brown clay vein.
ADDITIONAL COMMENTS: Section through a thick pillow?

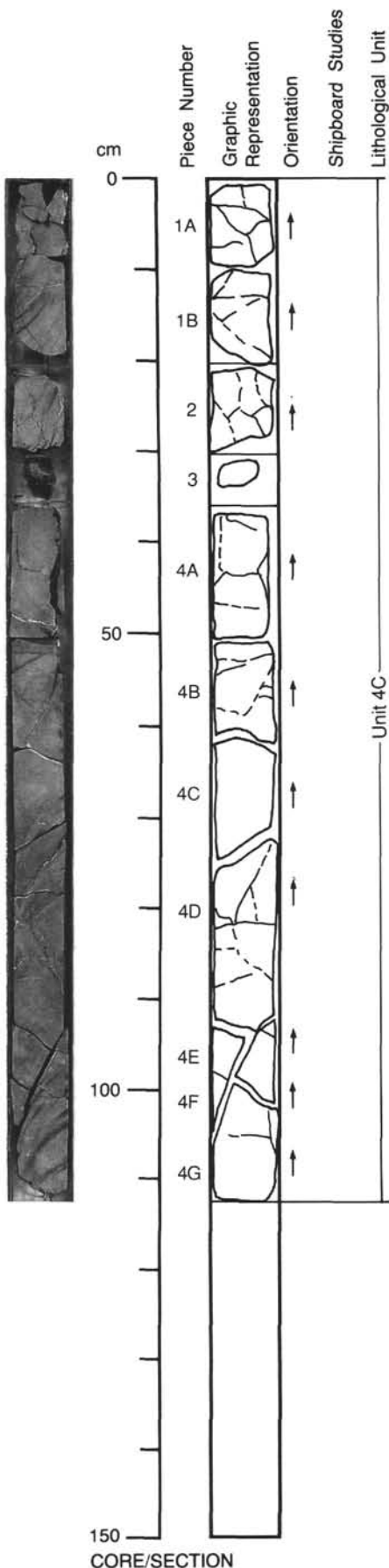


130-807C-81R-3

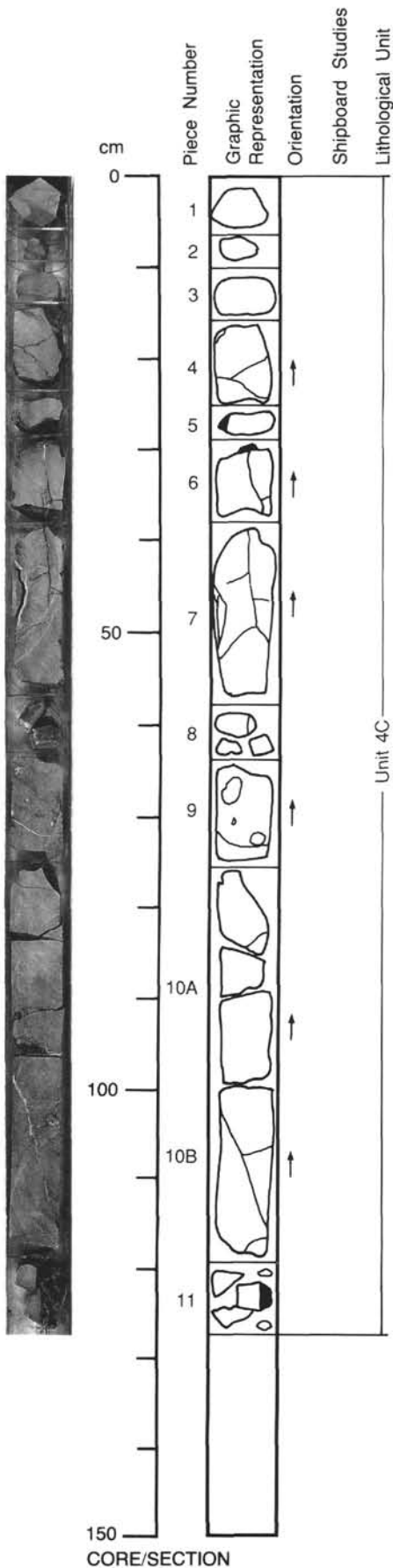
UNIT 4C: APHYRIC BASALT.

Pieces 1-4

CONTACTS: None
PHENOCRYSTS: Glomeroporphyritic texture.
 Plagioclase - ~1%; 0.5 mm; subhedral to euhedral.
 Clinopyroxene? - <1%; <0.2-1 mm; subhedral.
 Olivine? - ~1%; 0.2-1 mm; subhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Dark to medium gray.
STRUCTURE: Massive.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: 2-3%; <0.3-3 mm; varied orientation; filled with calcite and green-gray to brown clay.



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UNIT 4C: APHYRIC BASALT

Pieces 1-4

CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - <1%; 1 mm; euhedral.
 Olivine - ~1%; 0.2-1 mm; subhedral.
GROUNDMASS: Fine grained, coarsest in Pieces 2 and 3.
VESICLES: Nonvesicular.
COLOR: Gray to gray-green.
STRUCTURE: Massive.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <2-3%; 0.5-3 mm; varied orientation; filled with calcite, green and brown clay.

UNIT 4C: APHYRIC BASALT

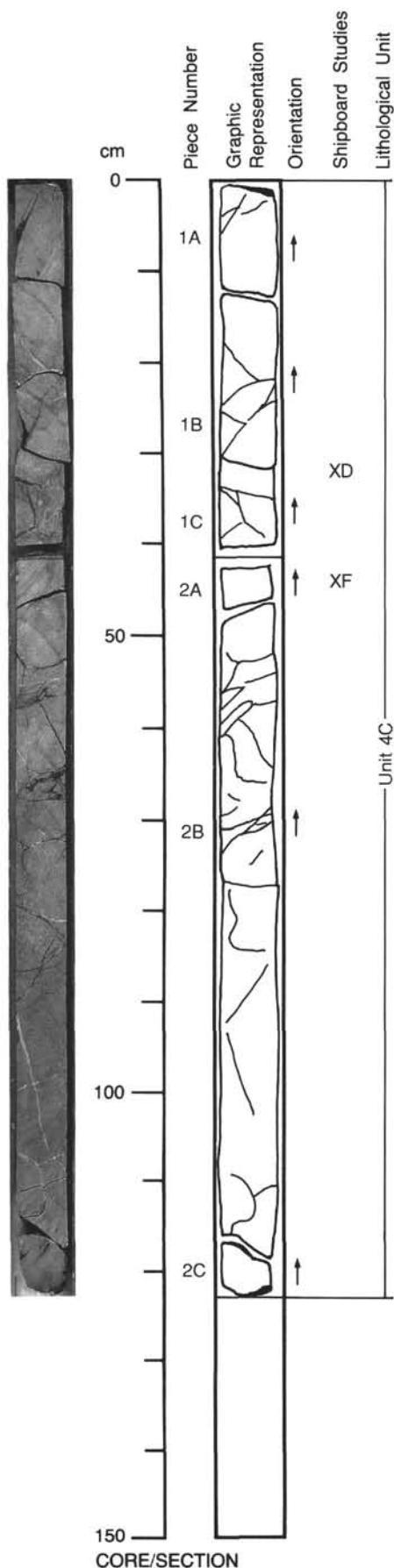
Pieces 5-11

CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - <1%; 0.2-0.75 mm; subhedral to euhedral.
 Olivine? - ~1%; 0.2-0.75 mm; subhedral.
 Clinopyroxene? - <1%; 0.2-0.75 mm; subhedral.
GROUNDMASS: Fine grained with glassy rinds (Pieces 5 and 11).
VESICLES: Nonvesicular. Piece 9 has several irregular vugs up to 1 cm wide containing calcite and brown clay.
COLOR: Medium to light gray.
STRUCTURE: Massive.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <5%; 0.5-4 mm; varied orientation; up to 5% in Pieces 7 and 10A, mostly calcite filled but also red-brown and dark gray-green clay.

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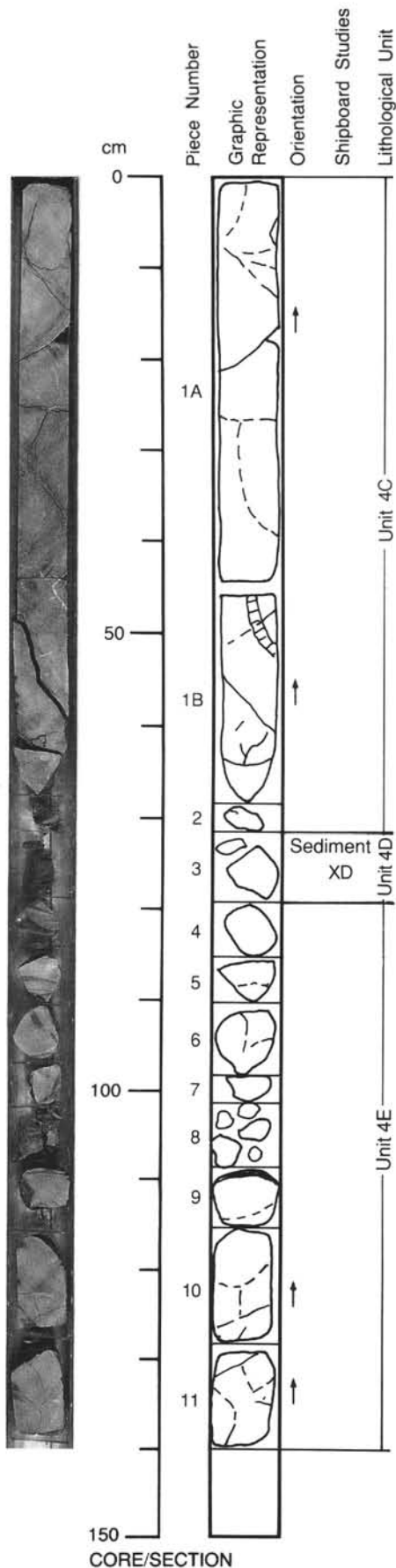
UNIT 4C: APHYRIC BASALT

Pieces 1, 2



CONTACTS: None.
PHENOCRYSTS: Glomeroporphyritic texture, aggregates up to approximately 3 mm.
 Plagioclase - <1%; <0.2-0.75 mm; euhedral to subhedral.
 Olivine? - ~1-2%; <0.2-0.75 mm; euhedral to subhedral.
 Clinopyroxene? - ~1-2%; 0.2-0.75 mm; euhedral to subhedral.
GROUNDMASS: Fine-grained to glassy (rims of Pieces 1A and 2C).
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <5%; <0.2-10 mm; varied orientation; most are subvertical or subhorizontal and are infilled with calcite, brown and green-blue clays (?). Brown clay (?) fillings at 40 and 58 cm contain small (0.5 to 1.0 mm) pieces of native copper.

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UNIT 4C: APHYRIC BASALT

Pieces 1, 2

CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - <1%; <0.2-0.75 mm; subhedral to euhedral laths.
 Olivine? - ~1%; <0.2-0.75 mm; anhedral to subhedral.
 Clinopyroxene? - <1%; 0.2-0.75 mm; anhedral to subhedral.
GROUNDMASS: Fine grained to glassy (top of Piece 1A).
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <2-3%; <3 mm; varied orientation; calcite and brown clay fill.

UNIT 4D: SEDIMENT

Piece 3

COMMENTS: 72-79 cm; Olive brown (2.5YR 4/4) clayey limestone; clay is probably smectite and iron oxides are common to abundant. Limestone contains ~ 5-10% clasts that are 2-3 mm in diameter, range in shape from elongate and angular to pelletal, and are grayish green (5G 5/2) in color. There appears to be glauconite, although there may also be basaltic debris.

UNIT 4E: APHYRIC BASALT

Pieces 4-8

CONTACTS: None.
PHENOCRYSTS: Glomeroporphyritic texture.
 Plagioclase - ~1%; <0.2-1.0 mm; anhedral-euhedral.
 Olivine? - ~1-2%; <0.2-1.0 mm; anhedral-subhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight.
VEINS/FRACTURES: Thin (0.5 mm) vein in Piece 5A, filled with green-brown clay.

UNIT 4E: SPARSELY OLIVINE-PHYRIC BASALT

Pieces 9, 10, 11

CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - <1%; <0.2-1.0 mm; anhedral to euhedral.
 Olivine? - ~2%; <0.2-1.0 mm; anhedral to subhedral.
 Clinopyroxene? - <1%; 0.2 to 1 mm; anhedral to subhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight.
VEINS/FRACTURES: 1%; 0.2-1.0 mm; varied orientation; filled with calcite and green and brown clays.

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UNIT 4E: APHYRIC BASALT

Pieces 1, 2

CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - <<1%; <0.5 mm; subhedral to anhedral.
 Olivine? - 1%; 0.2-0.5 mm; subhedral.
 Clinopyroxene? - <1%; 0.2-0.5 mm; subhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Moderate; greater near veins with Fe-oxide staining.
VEINS/FRACTURES: <1%; 0.3-2 mm; varied orientations; calcite with minor green clay and reddish Fe-oxide.

UNIT 4E: APHYRIC BASALT

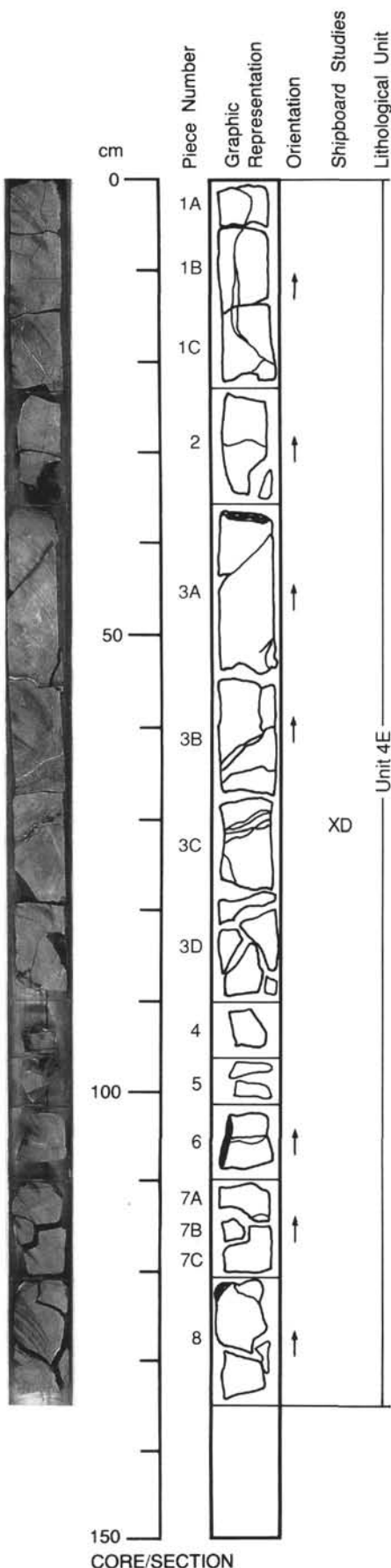
Pieces 3-6

CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - <1%; <0.5 mm; anhedral to subhedral.
 Olivine? - ~1%; 0.2-1.0 mm; subhedral.
 Clinopyroxene? - <1%; 0.2-1.0 mm; subhedral.
GROUNDMASS: Fine grained with glassy top and bottom.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive (could be a thick pillow).
ALTERATION: Slight to moderate.
VEINS/FRACTURES: 2%; 0.5-8 mm; subhorizontal; calcite filling. One vein has a 2-3-mm-thick red zone (Fe-oxide rich?), another has interior zone of dark green clay.

UNIT 4E: APHYRIC BASALT

Pieces 7, 8

CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - <<1%; <0.5 mm; subhedral.
 Olivine? - ~1%; 0.2-0.5 mm; subhedral.
GROUNDMASS: Fine grained with glassy margin.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <1%; 0.5-2 mm; varied orientation; calcite filled.



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CORE/SECTION

130-807C-82R-5

UNIT 4E: APHYRIC BASALT

Pieces 1, 2

CONTACTS: None.

PHENOCRYSTS:

Plagioclase - <<1%; 0.2-0.3 mm; anhedral.

Olivine? - ~1%; 0.3-0.5 mm; subhedral.

GROUNDMASS: Fine grained to glassy at margins.

VESICLES: Nonvesicular.

COLOR: Medium gray.

STRUCTURE: Pillow lava.

ALTERATION: Slight to moderate.

VEINS/FRACTURES: 2%; <1 - 6 mm; varied orientation; calcite between glass rims; brown clay with calcite elsewhere; minor dark green clay.

UNIT 4E: APHYRIC BASALT

Pieces 3-6

CONTACTS: None.

PHENOCRYSTS:

Plagioclase - <<1%; 0.2-0.5 mm; anhedral.

Olivine? - ~1%; 0.25-1.0 mm; subhedral to anhedral.

Clinopyroxene? - <1%; 0.25-1.0 mm; subhedral to anhedral.

GROUNDMASS: Fine grained with glassy margins.

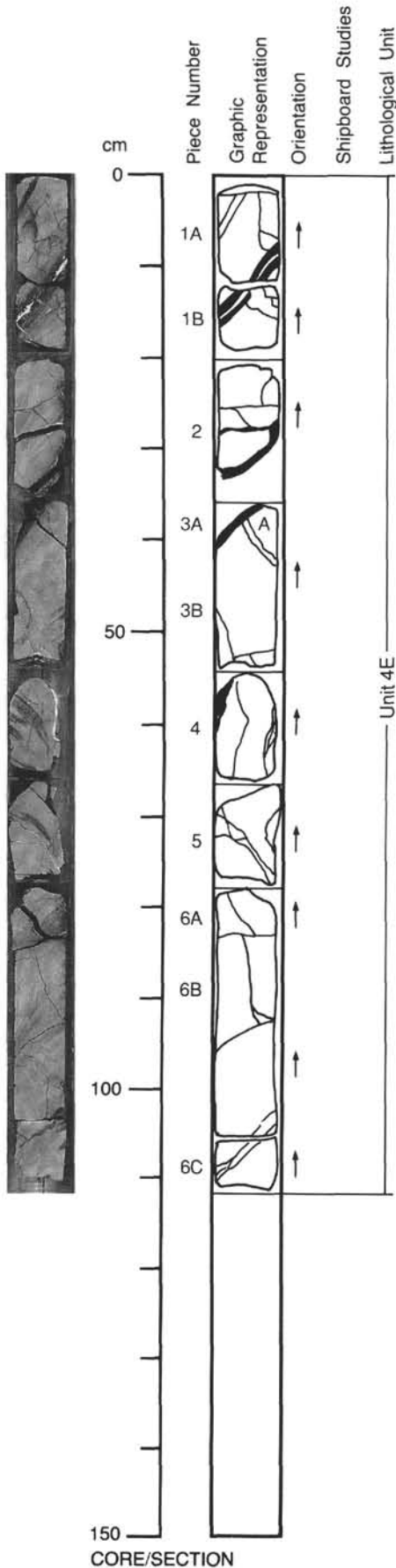
VESICLES: Nonvesicular.

COLOR: Medium gray.

STRUCTURE: Massive pillow lava.

ALTERATION: Slight to moderate.

VEINS/FRACTURES: <1%; <0.5-3 mm; varied orientation; filled with calcite and lesser amounts of dark green clay. Two brown clay and/or Fe-oxide veins in Piece 6.



130-807C-82R-6

UNIT 4E: APHYRIC BASALT

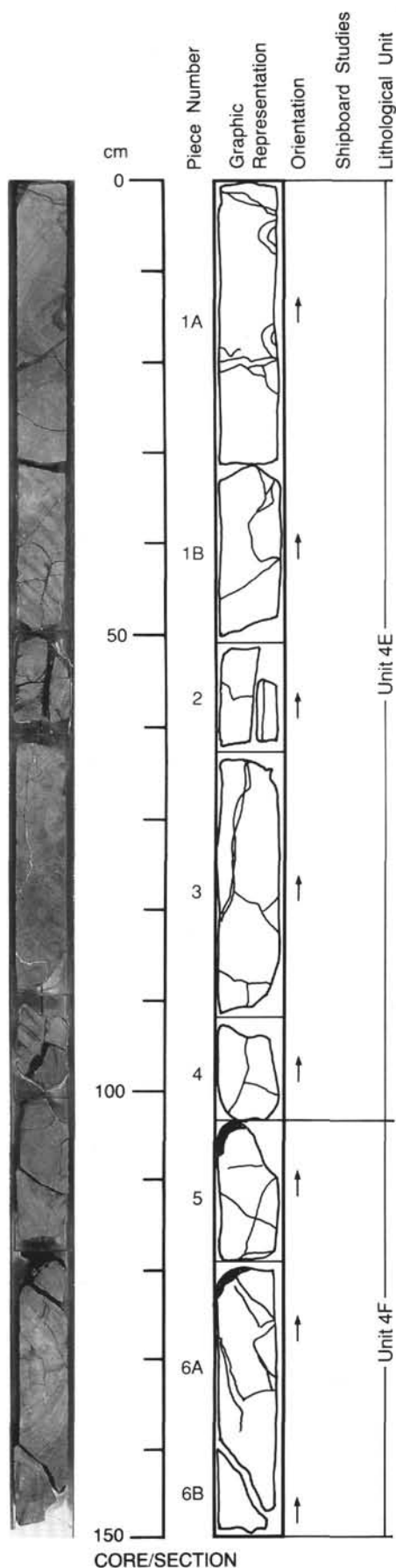
Pieces 1-4

CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - <<1%; <0.5 mm; subhedral, mostly associated with olivine/clinopyroxene.
 Olivine? - 1%; 0.25-1 mm; euhedral to subhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray, slight greenish to darker gray mottling.
STRUCTURE: Massive.
ALTERATION: Slight to moderate (in coarser grained areas).
VEINS/FRACTURES: 2%; <1-6 mm; varied orientation; dark brown clay and/or oxide veins in Pieces 1 and 2, one with dark blue-green clay edges and secondary veinlets (earlier, non-crosscutting). Also calcite with greenish clay and reddish Fe-oxide(?).

UNIT 4F: APHYRIC BASALT

Pieces 5, 6

CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - <1%; 0.2-0.5 mm; subhedral.
 Olivine? - 1%; 0.25-1.0 mm; subhedral to euhedral.
GROUNDMASS: Fine grained, glassy at top.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Pillow to massive.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <1%; 0.5-1.0 mm; varied orientation; dark green clay and calcite; minor dark brown clay and green clay in Piece 6.



CORE/SECTION

130-807C-83R-1

UNIT 4F: APHYRIC BASALT

Pieces 1-4

CONTACTS: None.

PHENOCRYSTS:

Plagioclase - <<1%; 0.2-0.5 mm; subhedral.

Olivine? - 1%; 0.2-1.0 mm; subhedral.

Clinopyroxene? - <1%; 0.2-1.0 mm; subhedral.

GROUNDMASS: Fine grained.

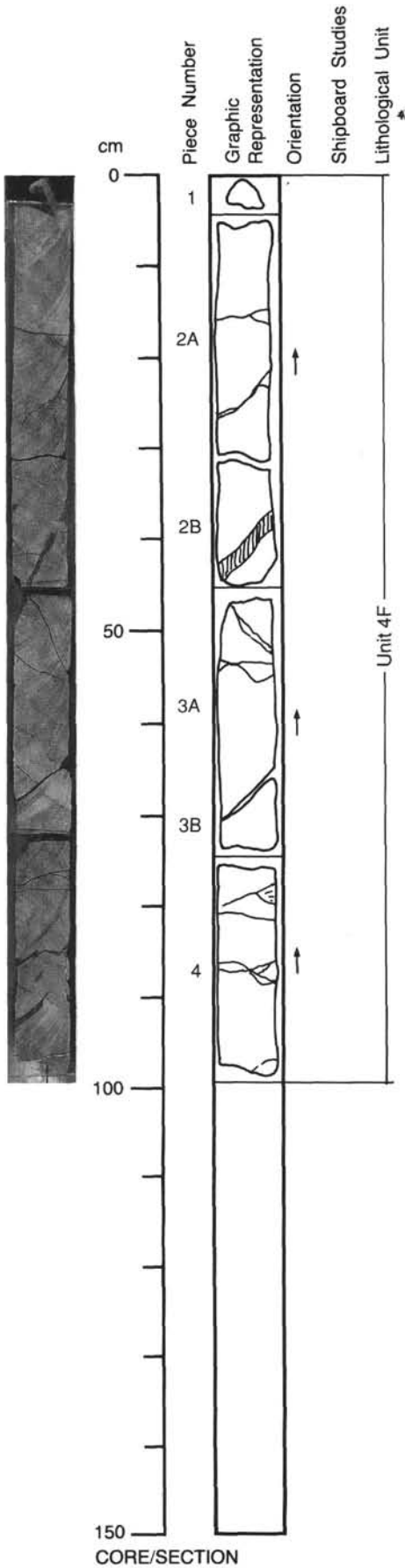
VESICLES: Nonvesicular.

COLOR: Medium gray.

STRUCTURE: Massive.

ALTERATION: Slight.

VEINS/FRACTURES: 1%; 0.5-6 mm; horizontal to 45°; calcite with and brown clays, some dark green clay.

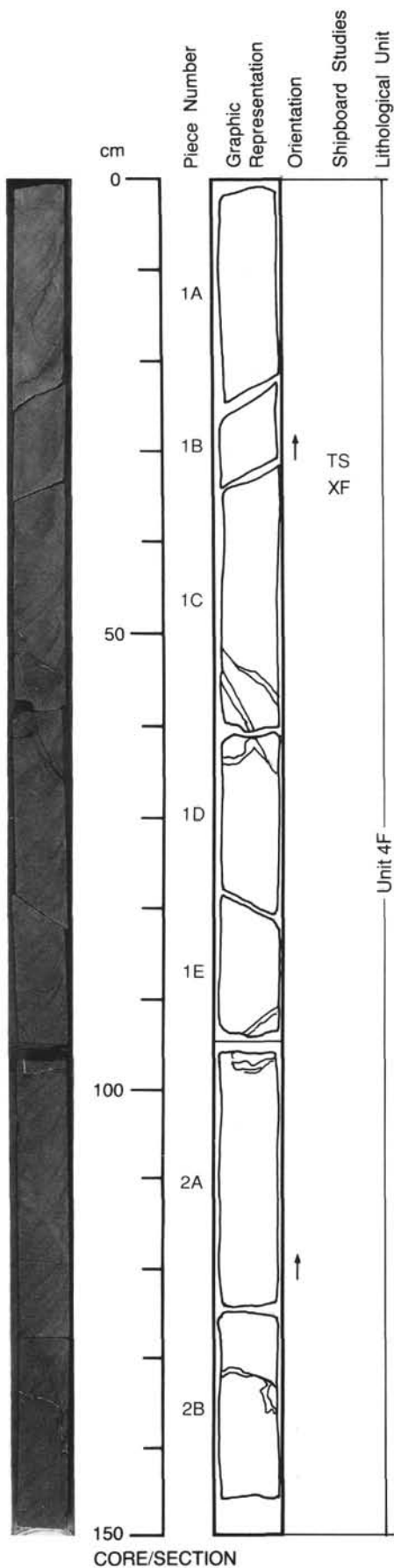


130-807C-83R-2

UNIT 4F: APHYRIC BASALT

Pieces 1, 2

CONTACTS: None.
PHENOCRYSTS:
 Olivine? - ~1%; 0.5-1.0 mm; subhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight, moderate in places (blotches).
VEINS/FRACTURES: <1%; 0.5-3 mm; varied orientation; calcite with lesser brown or green clay.

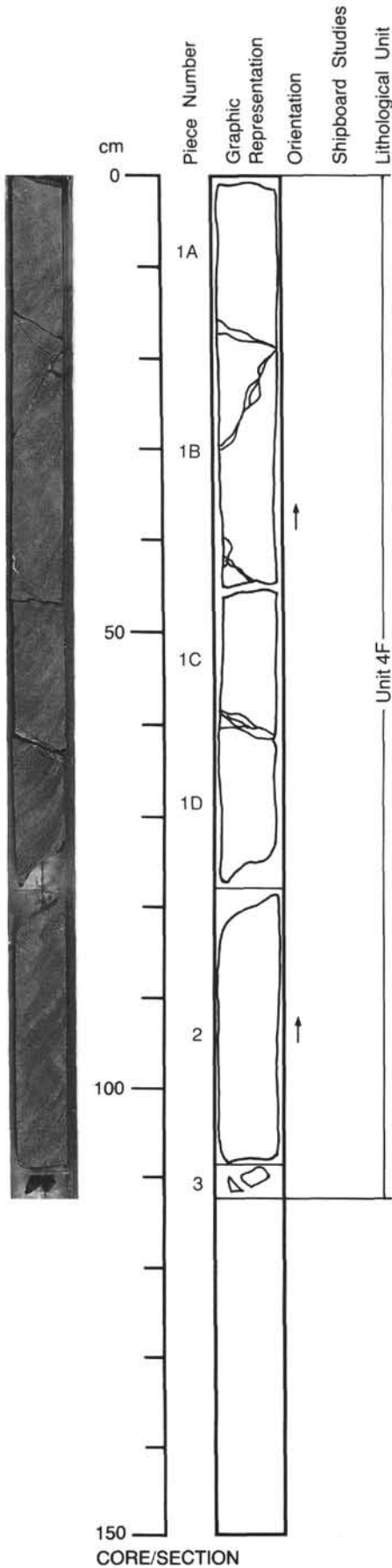


130-807C-83R-3

SUBDIVISION 4F: APHYRIC BASALT

Pieces 1-3

CONTACTS: None.
PHENOCRYSTS:
 Olivine? - <1%; 0.5-1.0 mm; subhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight.
VEINS/FRACTURES: <1%; <0.5-5 mm; horizontal and at 45°; calcite and nearly black to dark brown clays.
ADDITIONAL COMMENTS: Piece 3 consists of two vein fragments; one a brown clay, the other a dark green-gray clay with calcite.

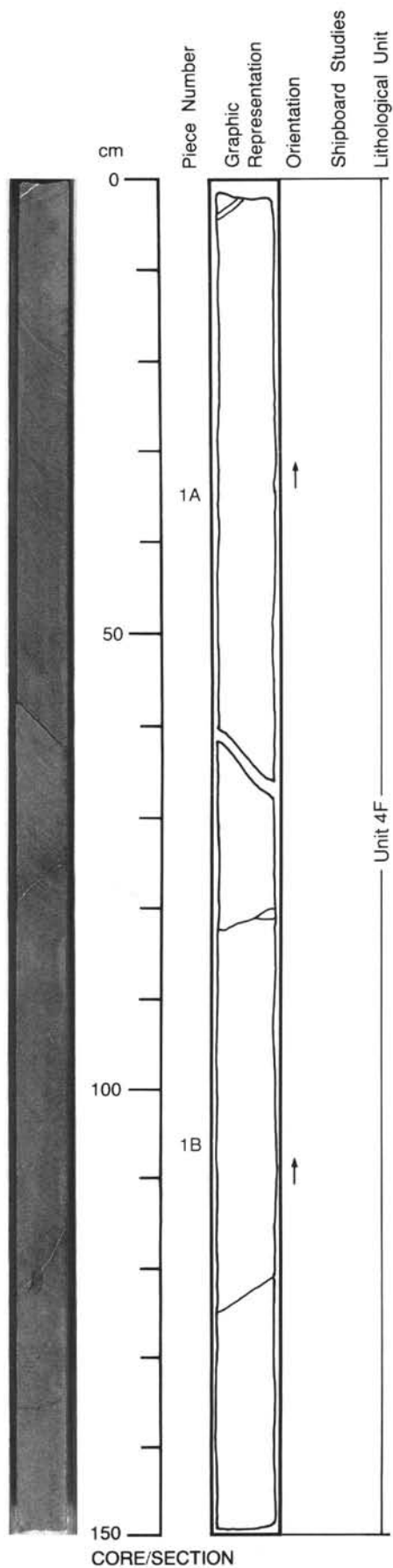


130-807C-83R-4

UNIT 4F: APHYRIC BASALT

Piece 1

CONTACTS: None.
PHENOCRYSTS:
 Olivine? - <1%; 0.5-1.0 mm; subhedral to anhedral.
GROUNDMASS: Fine grained (coarser than Core 83R-3).
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Relatively fresh to slightly altered.
VEINS/FRACTURES: <<1%; 0.5-2mm; horizontal and at 45°; calcite filled.

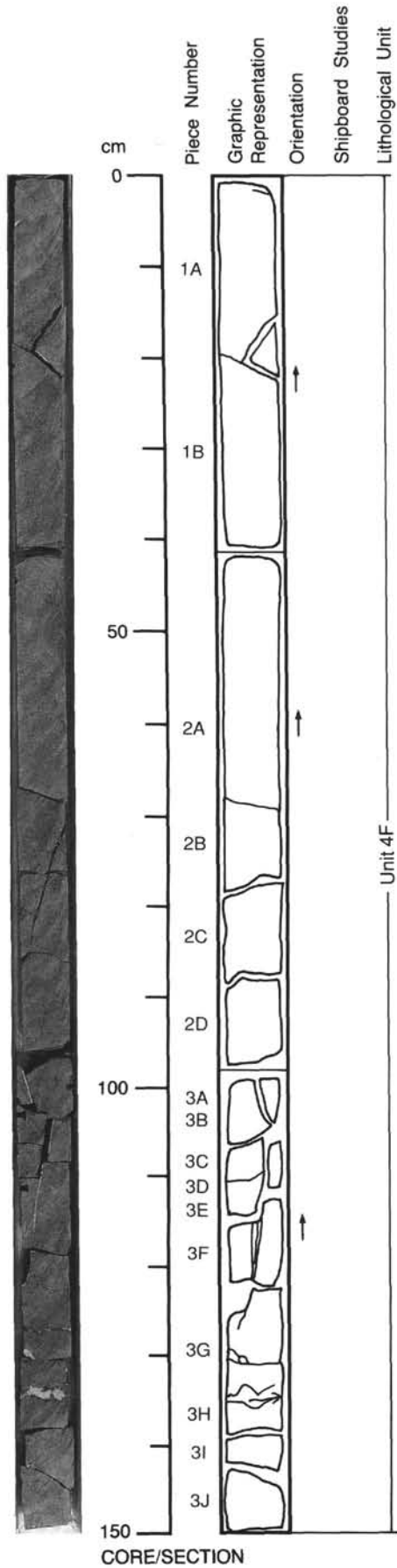


130-807C-83R-5

UNIT 4F: APHYRIC BASALT

Pieces 1, 2, 3

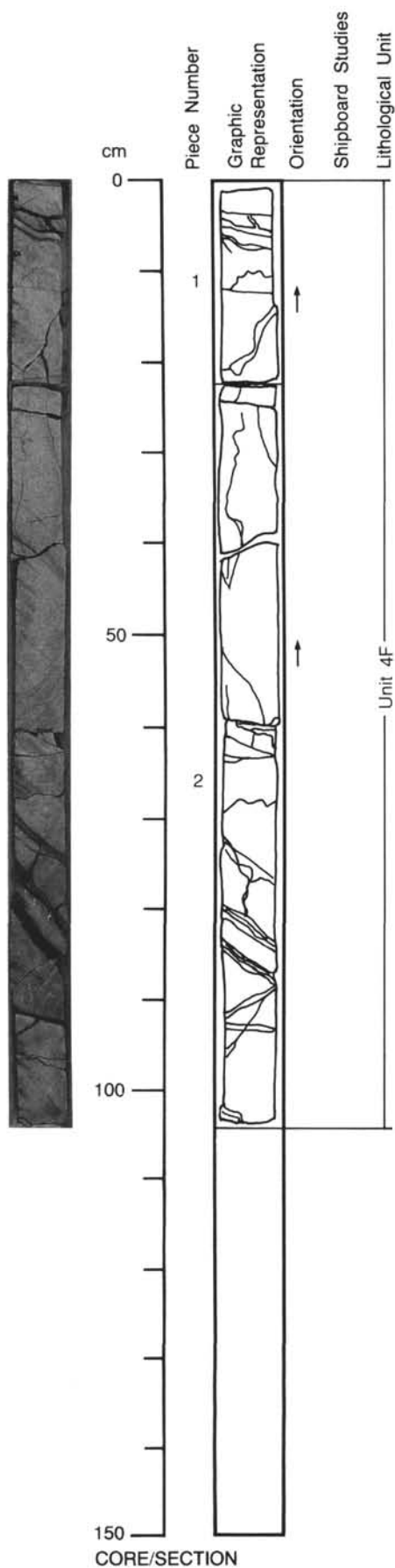
CONTACTS: None.
PHENOCRYSTS:
 Olivine? - <1%; up to 1 mm; subhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight.
VEINS/FRACTURES: <1%; 0.5-10 mm; subhorizontal to subvertical; calcite with lesser black and olive green clay.



130-807C-83R-6

UNIT 4F: APHYRIC BASALT

Pieces 1, 2



CONTACTS: None.

PHENOCRYSTS:

Olivine? - 1%; 0.3-1 mm; subhedral.

GROUNDMASS: Fine grained.

VESICLES: Nonvesicular.

COLOR: Light to medium gray with dark gray and greenish patches toward the bottom.

STRUCTURE: Massive.

ALTERATION: Slight to high (near large veins).

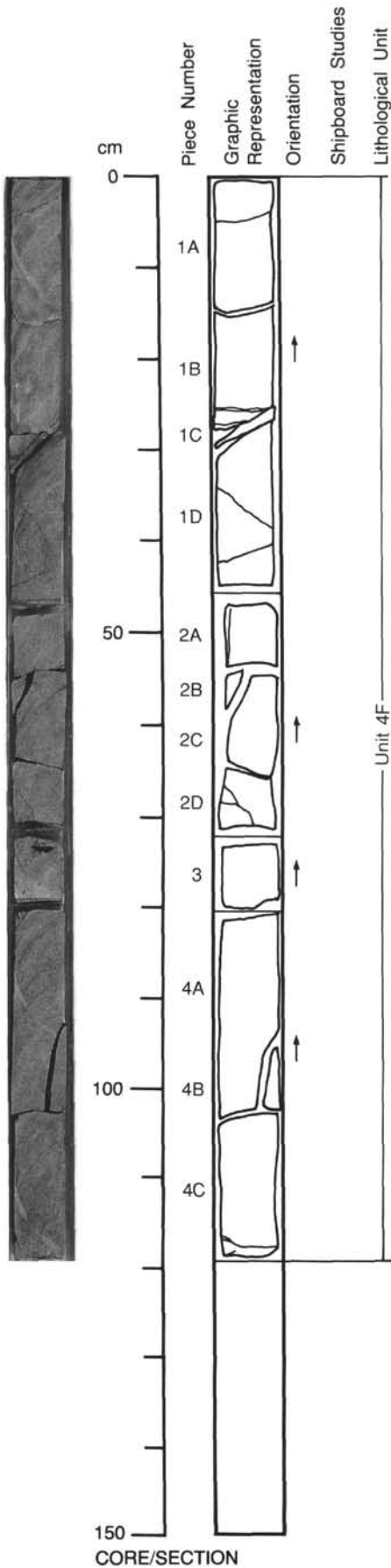
VEINS/FRACTURES: 5%; <1-25 mm; varied orientation; large vein (~2.5 mm thick) at 45° (at interval 75-87 cm) consisting of outer zone of black clay with an inner zone of a yellow-brown mineral containing angular black clay clasts. Other veins of black clay, yellow brown clay, and minor calcite. Sediment injected into fracture?

130-807C-83R-7

UNIT 4F: APHYRIC BASALT

Pieces 1-4

CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - <1%; 0.5-0.8 mm; euhedral.
 Olivine? - 1%; 0.5-1.0 mm; subhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight.
VEINS/FRACTURES: <1%; <0.5-7 mm; subhorizontal and at 45°; calcite with black clay.
 One 7-mm-thick vein with light brown clay interior and outer zone of dark gray to black clay.

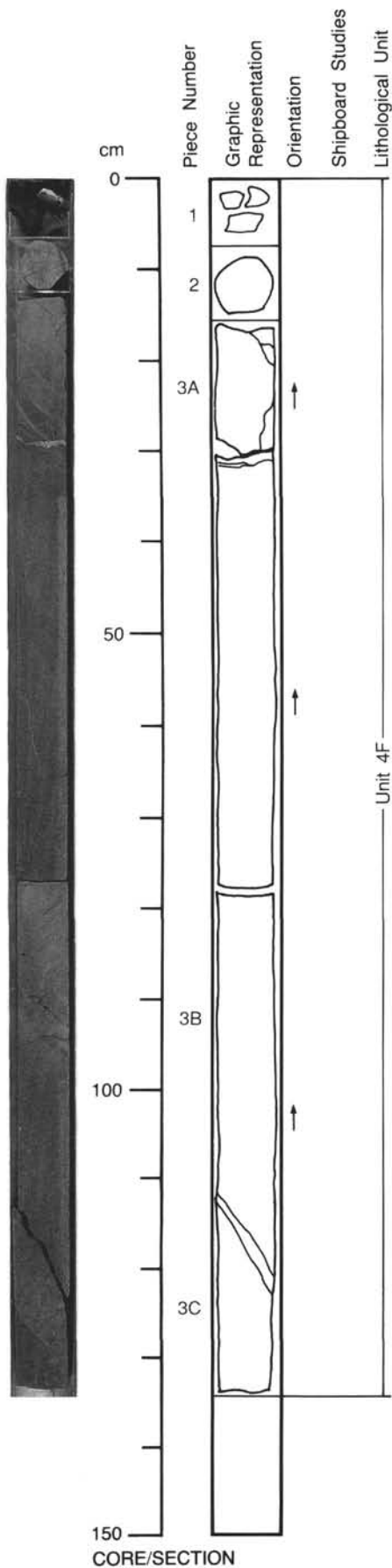


130-807C-84R-1

UNIT 4F: APHYRIC BASALT

Pieces 1-3

CONTACTS: None.
PHENOCRYSTS:
 Olivine? - <1%; 0.5-1 mm; subhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight.
VEINS/FRACTURES: <<1%; <1-5 mm; varied orientation; calcite with minor black and green clay.
ADDITIONAL COMMENTS: Piece 1 contains 3 fragments: (i) chert, probably washed downhole; (ii) brown clay vein; (iii) fine-grained basalt.

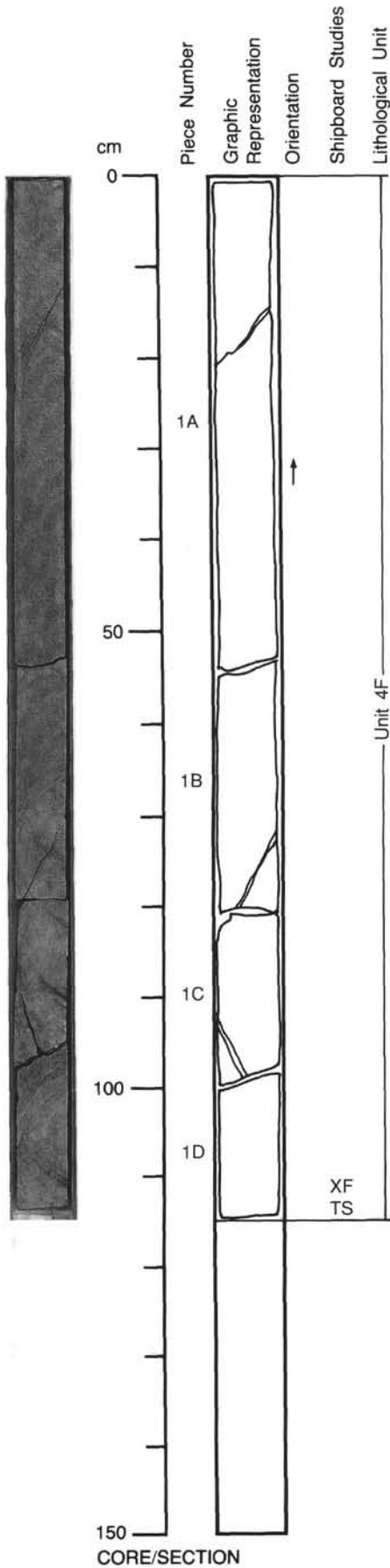


130-807C-84R-2

UNIT 4F: APHYRIC BASALT

Piece 1

CONTACTS: None.
PHENOCRYSTS:
 Olivine? - <1%; 0.5-1mm; subhedral.
 Plagioclase - <1%; 0.5-1mm; euhedral to subhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight.
VEINS/FRACTURES: <1%; 0.2-4 mm; subhorizontal and at ~60°; calcite and dark gray clay(?).

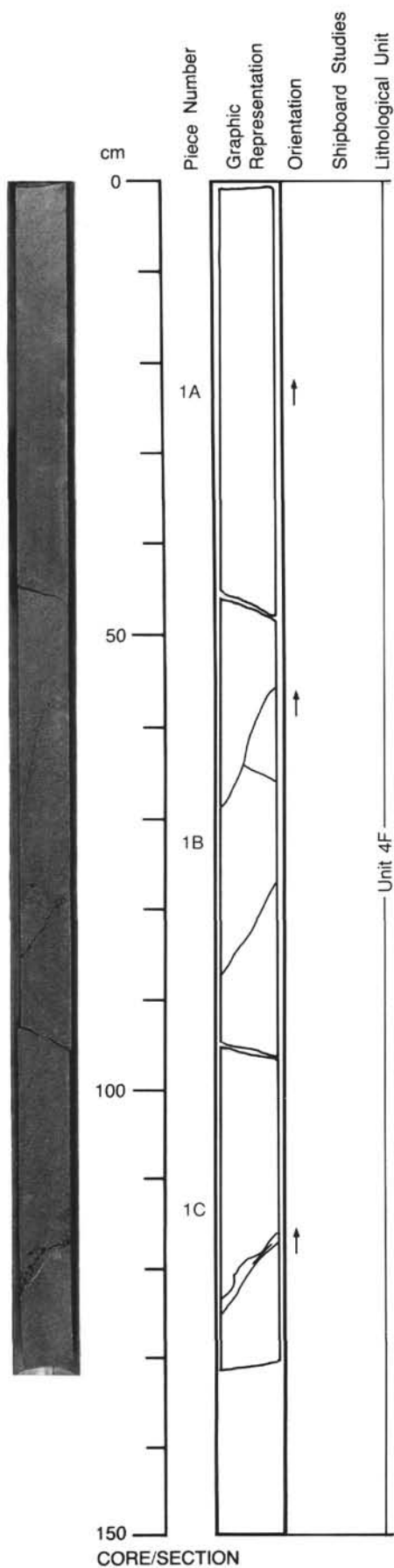


130-807C-84R-3

UNIT 4F: APHYRIC BASALT

Piece 1

CONTACTS: None.
PHENOCRYSTS:
 Olivine? - ~1%; 0.5-1 mm; subhedral to euhedral.
 Clinopyroxene? - <1%; 0.5-1 mm; subhedral to euhedral.
 Plagioclase - <1%; 0.5-1 mm; subhedral to euhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight.
VEINS/FRACTURES: <<1%; 0.5-4 mm; varied orientation; mostly dark gray clay, thin (1 mm) pyrite vein near bottom of Piece 1C.



130-807C-84R-4

UNIT 4F: APHYRIC BASALT

Piece 1

CONTACTS: None.

PHENOCRYSTS:

- Olivine? - ~1%; 0.5- 1 mm; subhedral to euhedral.
- Clinopyroxene? - <1%; 0.5-1 mm; subhedral to euhedral.
- Plagioclase - <1%; 0.5-1 mm; subhedral to euhedral.

GROUNDMASS: Fine grained.

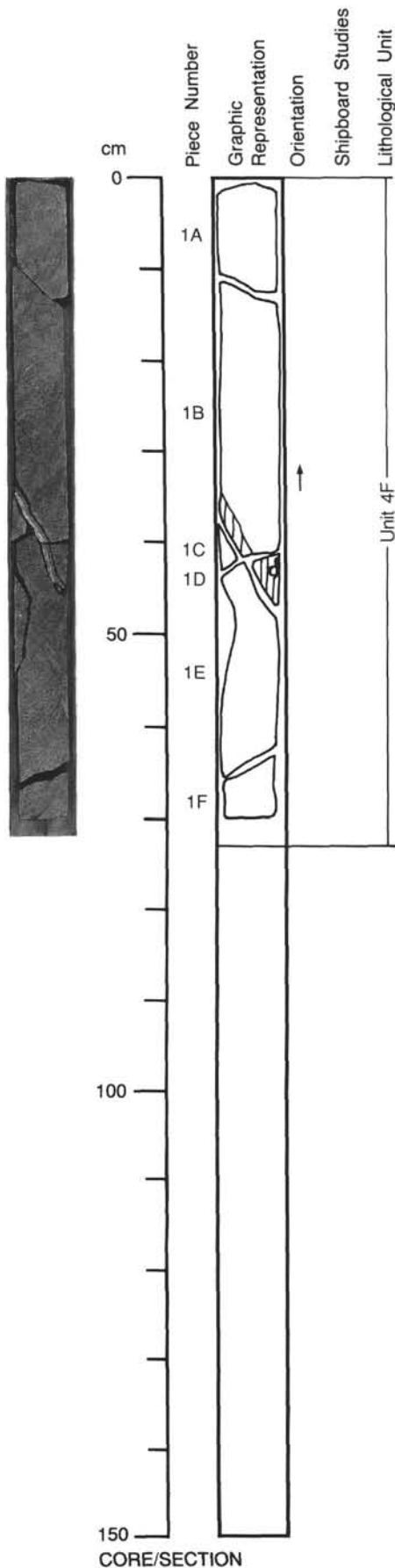
VESICLES: Nonvesicular.

COLOR: Medium gray.

STRUCTURE: Massive.

ALTERATION: Slight.

VEINS/FRACTURES: <1%; 1-10 mm; varied orientation; dark gray-green clay. From the bottom of Piece 1B and continuing into Piece 1D is a 10 mm thick composite vein, the bottom half consisting of calcite with minor pyrite and clays, and the top half of a ~5 mm thick basalt dike.



130-807C-84R-5

UNIT 4F: APHYRIC BASALT

Piece 1

CONTACTS: None.

PHENOCRYSTS:

Olivine? - 1-2%; 0.5-1 mm; subhedral to euhedral.

Clinopyroxene? - <1%; 0.5-1 mm; subhedral to euhedral.

Plagioclase - <1%; 0.5-1 mm; subhedral to euhedral.

GROUNDMASS: Fine grained.

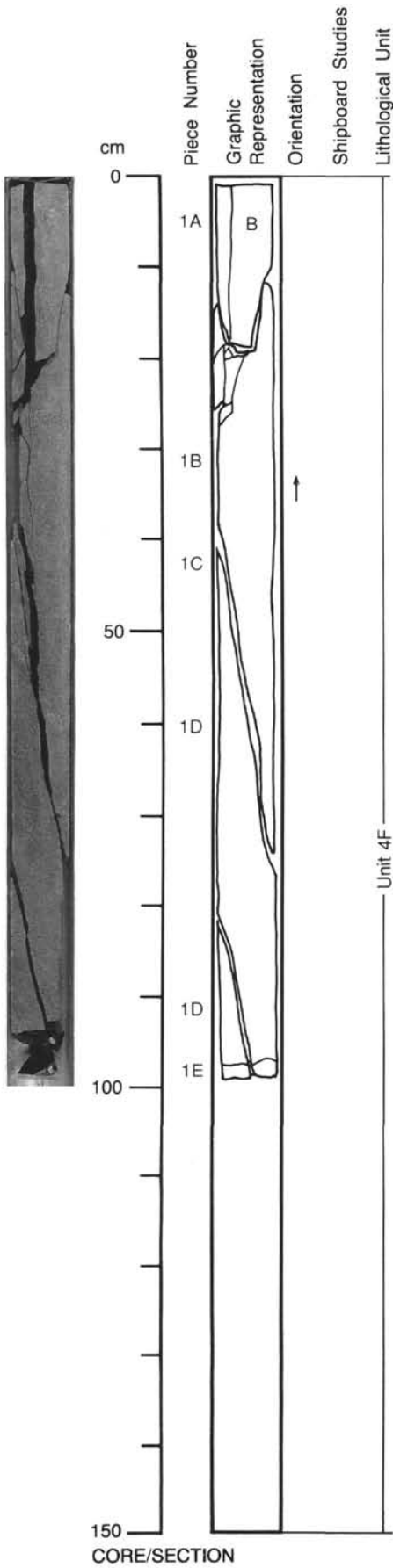
VESICLES: Nonvesicular.

COLOR: Medium gray.

STRUCTURE: Massive.

ALTERATION: Slight.

VEINS/FRACTURES: <<1%; 0.2-2 mm; subvertical; gray-green clays, heavily fractured.

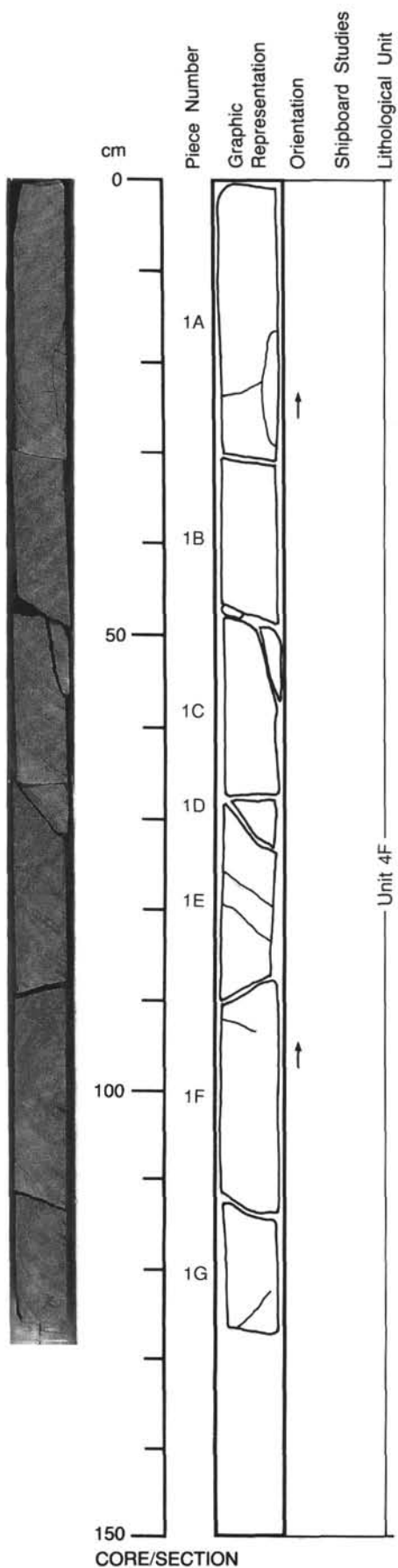


130-807C-84R-6

UNIT 4F: APHYRIC BASALT

Piece 1

CONTACTS: None.
PHENOCRYSTS: Glomeroporphyritic texture.
 Olivine? - ~1%; 0.3-1 mm; subhedral to euhedral.
 Clinopyroxene? - <1%; up to 1 mm; subhedral to euhedral.
 Plagioclase - <1%; up to 1 mm; subhedral to euhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight.
VEINS/FRACTURES: <<1%; 0.2-1 mm; varied orientation; dark gray clay, calcite.

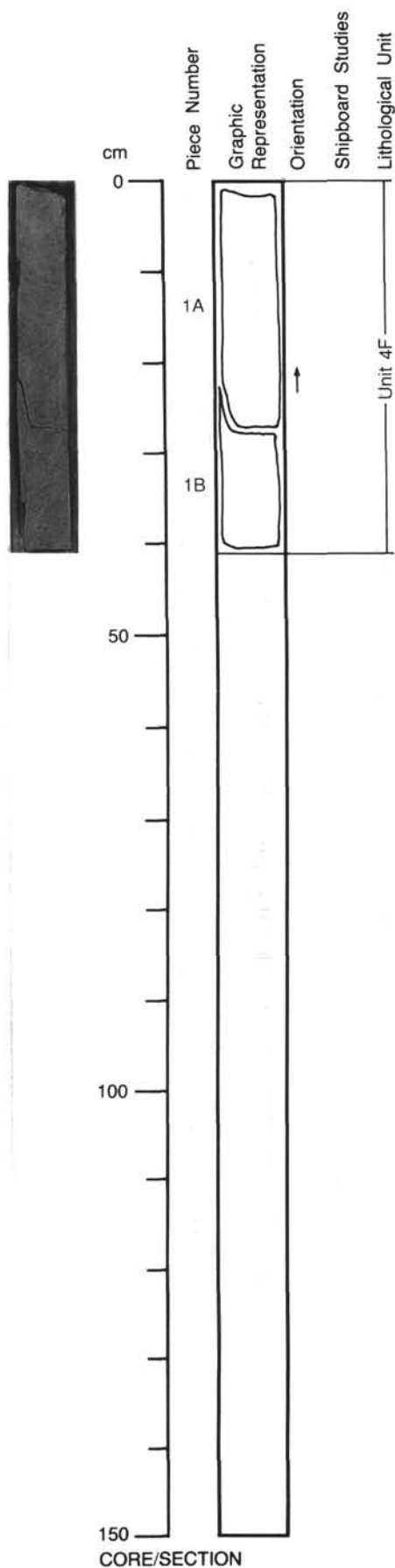


130-807C-84R-7

UNIT 4F: APHYRIC BASALT

Piece 1

CONTACTS: None.
PHENOCRYSTS:
 Olivine? - ~1%; 0.5-1 mm; subhedral to euhedral.
 Clinopyroxene? - <1%; 0.5-1 mm; subhedral to euhedral.
 Plagioclase - <1%; up to 1 mm; subhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight.
VEINS/FRACTURES: <<1%; ~0.5 mm; subvertical; dark gray clay.



130-807C-85R-1

UNIT 4F: APHYRIC BASALT

Piece 1

CONTACTS: None.

PHENOCRYSTS:

- Olivine? - ~1%; 0.5-1 mm; subhedral to euhedral.
- Clinopyroxene? - <1%; 0.5-1 mm; subhedral to euhedral.
- Plagioclase - <1%; 0.5-1 mm; subhedral to euhedral.

GROUNDMASS: Fine grained.

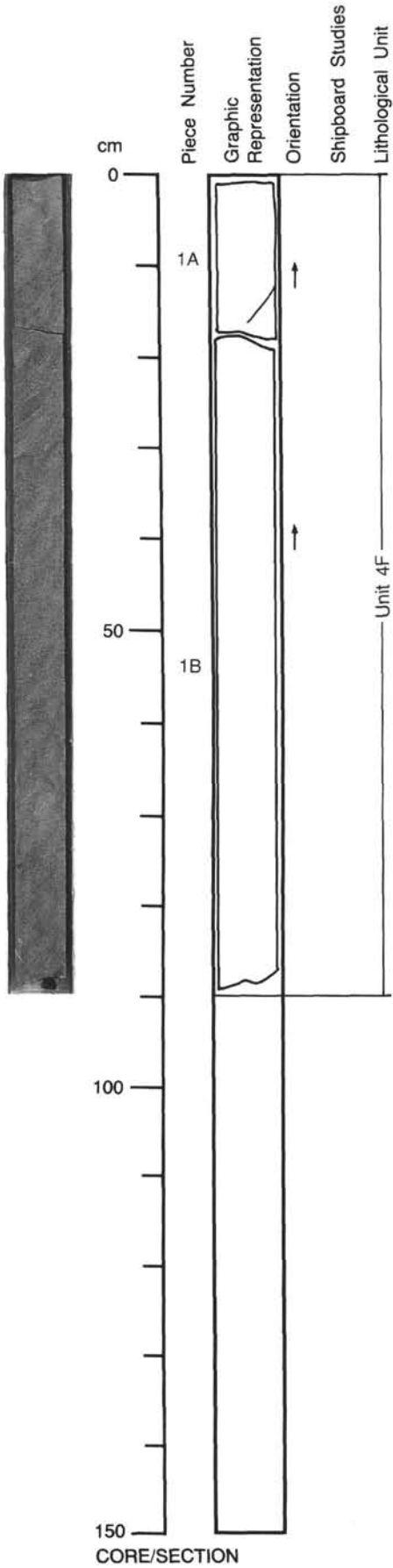
VESICLES: Nonvesicular.

COLOR: Medium gray.

STRUCTURE: Massive.

ALTERATION: Slight.

VEINS/FRACTURES: <<1%; 0.5 mm; high angles; gray clay filled vein in Piece 1A.

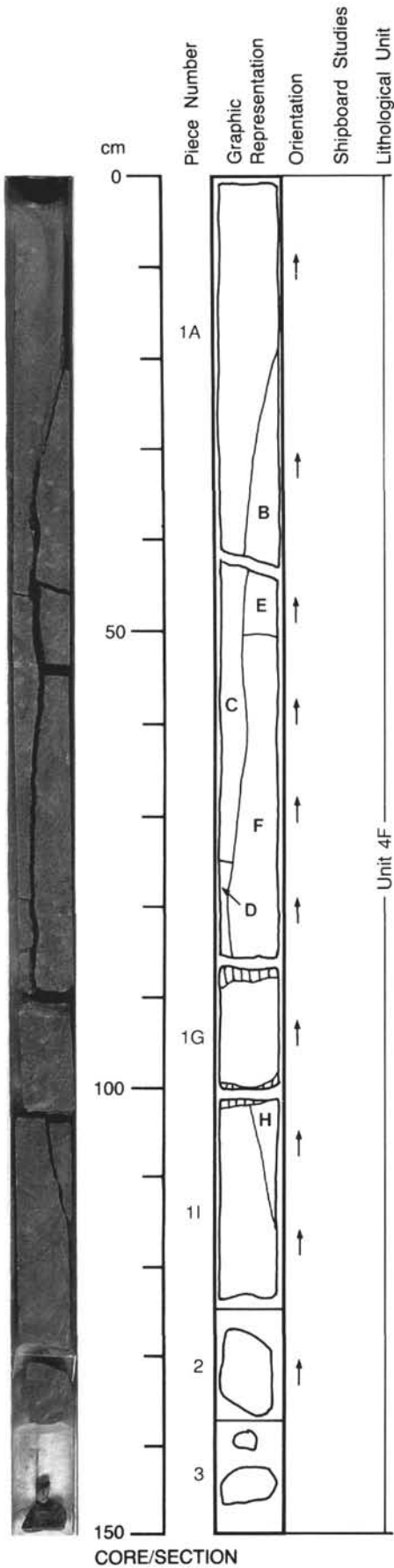


130-807C-85R-2

UNIT 4F: APHYRIC BASALT

Pieces 1-3

CONTACTS: None.
PHENOCRYSTS:
 Olivine? - ~1%; 0.5-1 mm; subhedral to euhedral.
 Clinopyroxene? - <1%; 0.5-1 mm; subhedral to euhedral.
 Plagioclase - <1%; 0.5-1 mm; subhedral to euhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight.
VEINS/FRACTURES: ~1%; 0.5-5 mm; subvertical to subhorizontal; filled with dark gray-green clay.



130-807C-85R-3

UNIT 4F: APHYRIC BASALT

Pieces 1-3

CONTACTS: None.

PHENOCRYSTS:

- Olivine? - ~1%; 0.5-1 mm; subhedral to euhedral.
- Clinopyroxene? - <1%; 0.5-1 mm; subhedral to euhedral.
- Plagioclase - <1%; 0.5-1 mm; subhedral to euhedral.

GROUNDMASS: Fine grained.

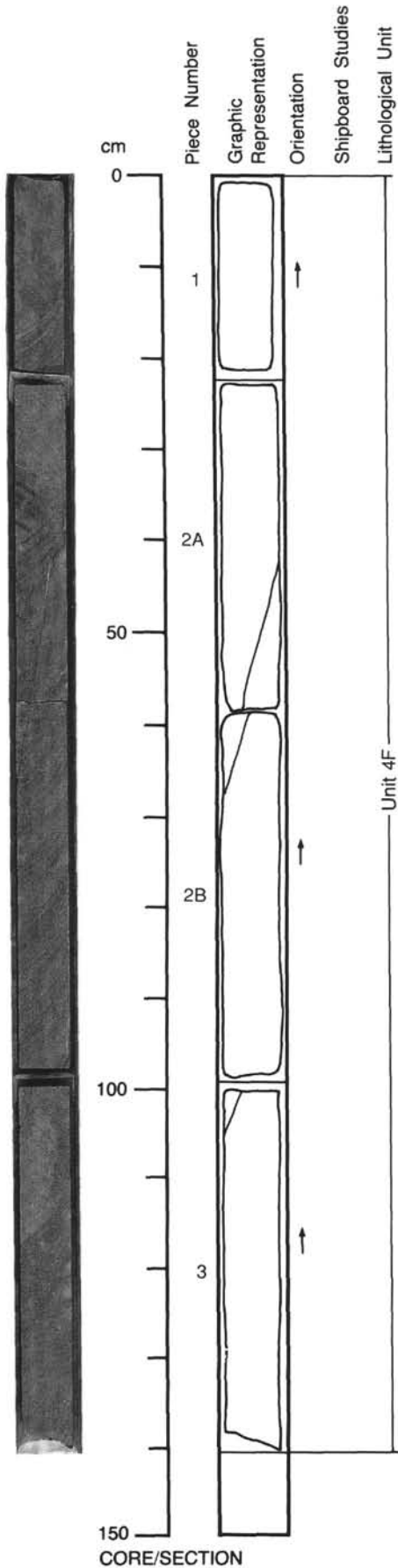
VESICLES: Nonvesicular.

COLOR: Medium gray.

STRUCTURE: Massive.

ALTERATION: Slight.

VEINS/FRACTURES: <<1%; 0.5-1 mm; subvertical; filled with dark gray clay.

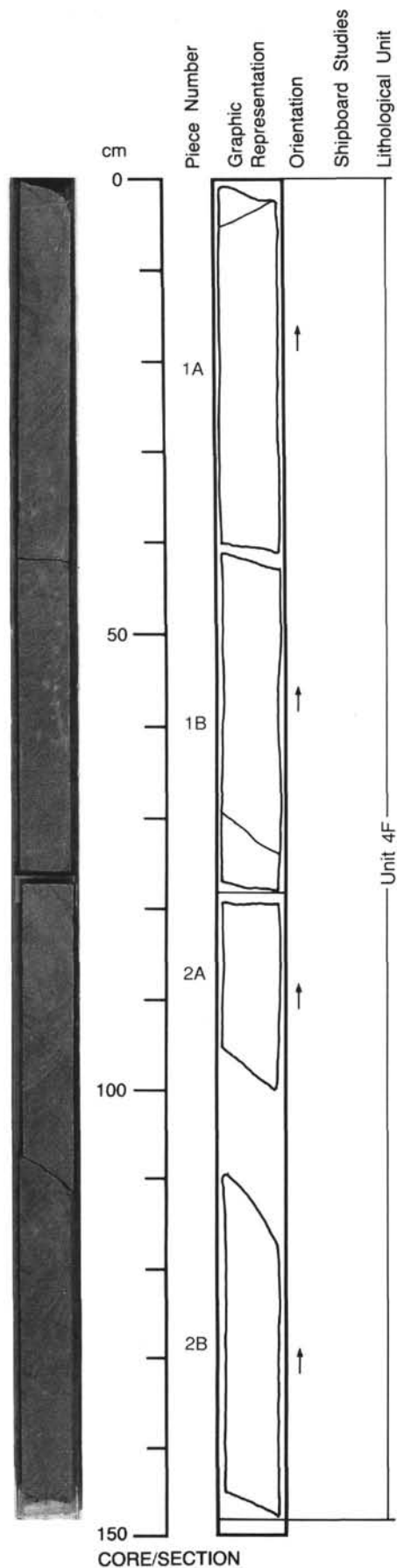


130-807C-85R-4

UNIT 4F: APHYRIC BASALT

Pieces 1, 2

CONTACTS: None.
PHENOCRYSTS:
 Olivine? - ~1%; 0.5-1 mm; subhedral to euhedral.
 Clinopyroxene? - <1%; 0.5-1 mm; subhedral to euhedral.
 Plagioclase - <1%; 0.5-1 mm; subhedral to euhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight.
VEINS/FRACTURES: <<1%; 0.2-1 mm; varied orientation; filled with dark gray clay.



CORE/SECTION

130-807C-85R-5

UNIT 4F: APHYRIC BASALT

Piece 1

CONTACTS: None.

PHENOCRYSTS:

Olivine? - ~1%; 0.5-1 mm; subhedral to euhedral.

Clinopyroxene? - <1%; 0.5-1 mm; subhedral to euhedral.

Plagioclase - <1%; 0.5-1 mm; subhedral to euhedral.

GROUNDMASS: Fine grained.

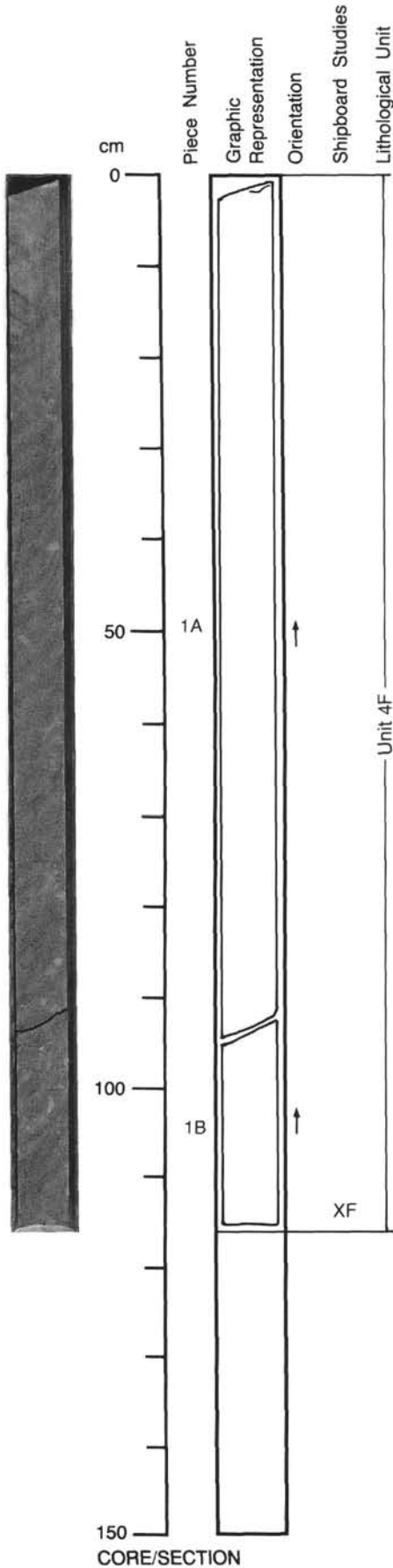
VESICLES: Nonvesicular.

COLOR: Medium gray.

STRUCTURE: Massive.

ALTERATION: Slight.

VEINS/FRACTURES: None.

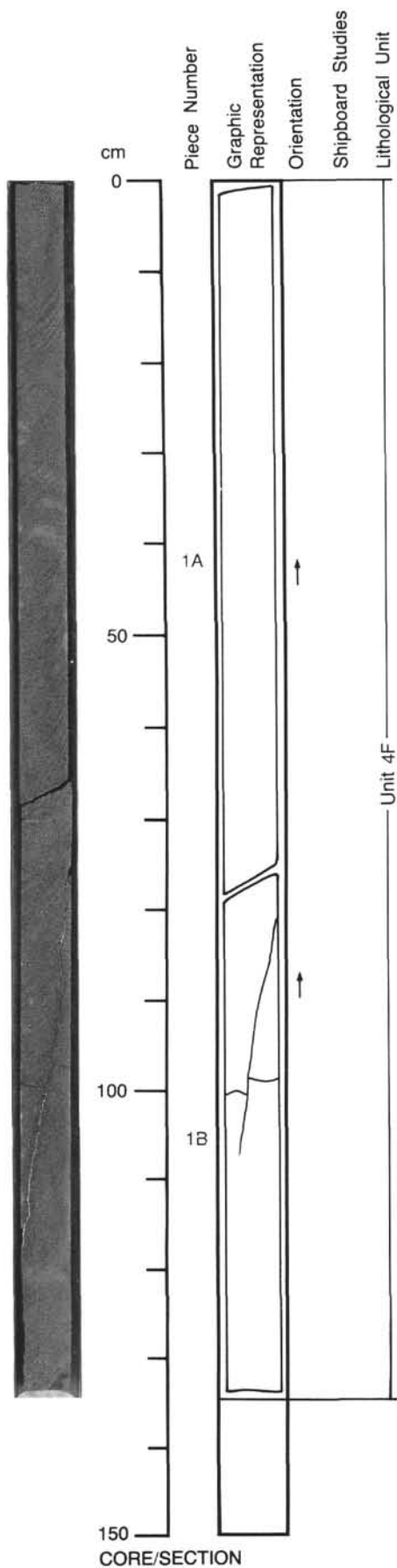


130-807C-85R-6

UNIT 4F: APHYRIC BASALT

Piece 1

CONTACTS: None.
PHENOCRYSTS:
 Olivine? - ~1%; 0.5-1 mm; subhedral to euhedral.
 Clinopyroxene? - <1%; 0.5-1 mm; subhedral to euhedral.
 Plagioclase - <1%; 0.5-1 mm; subhedral to euhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight.
VEINS/FRACTURES: ~1%; 0.2-3 mm; subvertical to subhorizontal; filled with calcite and dark green-gray clay.



130-807C-85R-7

UNIT 4F: APHYRIC BASALT

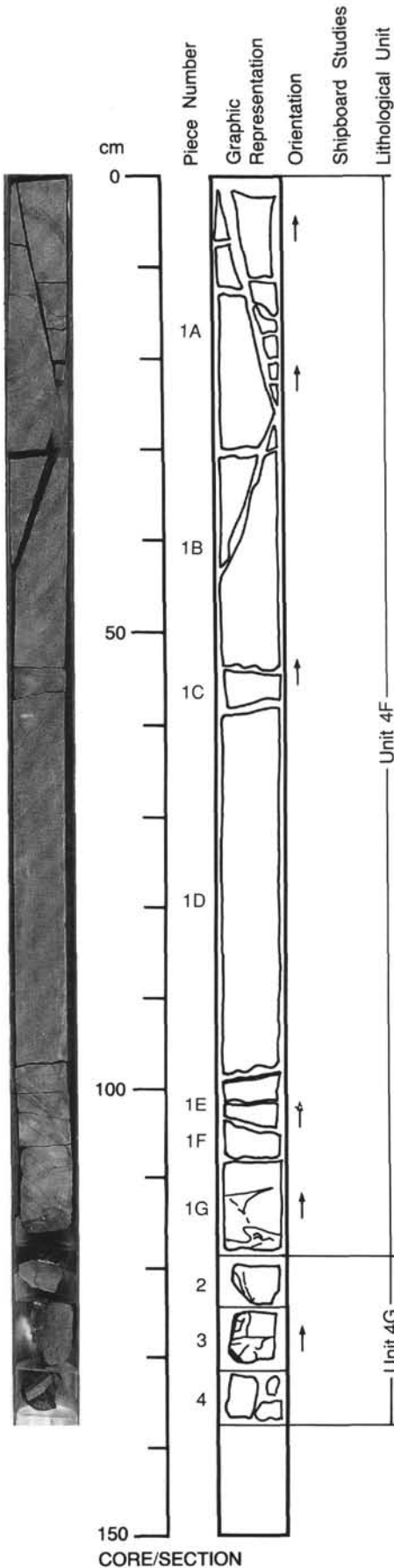
Piece 1

CONTACTS: Piece 1G is the base of this flow.
PHENOCRYSTS: Glomeroporphyritic texture, crystal aggregates up to 3 mm.
 Olivine? - ~1%; 0.5-1 mm; subhedral to euhedral.
 Clinopyroxene? - <1%; 0.5-1 mm; subhedral to euhedral.
 Plagioclase - <1%; 0.5-1 mm; subhedral to euhedral.
GROUNDMASS: Fine grained, becoming finer grained in Pieces 1F and 1G.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive, base of flow slightly brecciated (Piece 1G).
ALTERATION: Slight, moderate in Piece 1G.
VEINS/FRACTURES: <1%; 0.2-2 mm; horizontal and high angle; filled with calcite and dark clays; irregularly orientated vein in Piece 1G contains calcite and brown clay and/or Fe-oxide (?).

UNIT 4G: APHYRIC BASALT

Pieces 2-4

CONTACTS: Fine-grained to glassy flow margin.
PHENOCRYSTS:
 Olivine? - ~1%; 0.5-1 mm; subhedral to euhedral.
 Clinopyroxene? - <1%; 0.5-1 mm; subhedral.
 Plagioclase - <1%; 0.5-1 mm; subhedral to euhedral, associated with livine and/or clinopyroxene phenocrysts.
GROUNDMASS: Fine grained to glassy.
VESICLES: Nonvesicular.
COLOR: Medium to dark gray.
STRUCTURE: Flow margin, slightly brecciated.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: 2-3%; 0.2-5 mm; varied orientation; mainly calcite with green and brown clays; veins concentrated in the very fine grained to glassy margins of Pieces 2 and 3.



130-807C-86R-1

UNIT 4G: APHYRIC BASALT

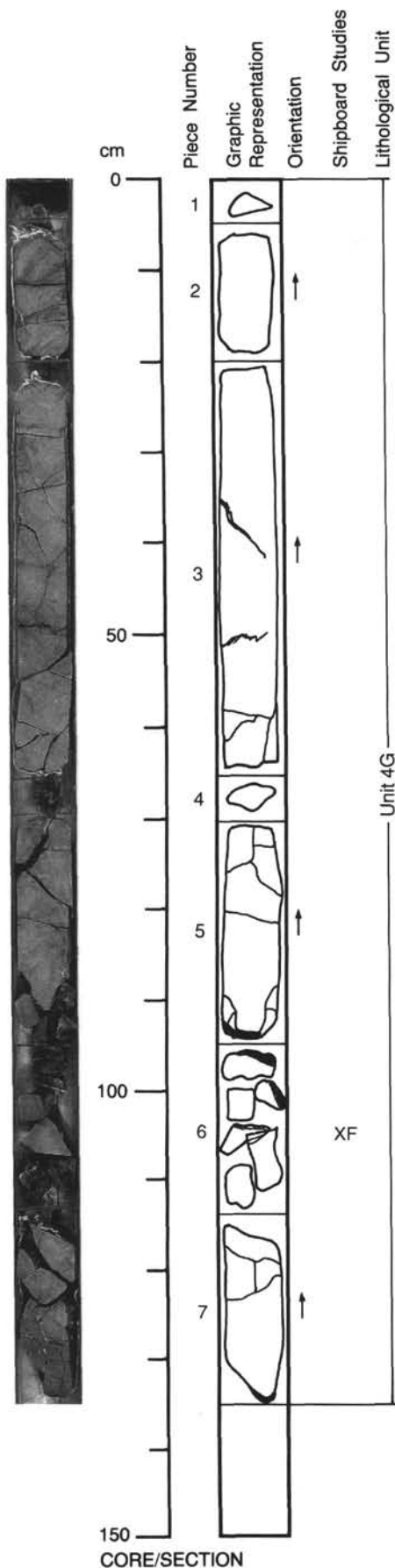
Pieces 1-5

CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - ~1%; 0.5-1 mm; euhedral to subhedral.
 Olivine? - ~1%; 0.3-1 mm; euhedral to subhedral.
 Clinopyroxene? - <1%; 0.3-1 mm; euhedral to subhedral.
GROUNDMASS: Fine grained to glassy, at bottom.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: ~1%; <1-3 mm; varied orientation; filled with brown clay and/or Fe-oxide, some calcite. Highly fractured.

UNIT 4G: APHYRIC BASALT

Pieces 6,7

CONTACTS: Glassy.
PHENOCRYSTS:
 Plagioclase - <1%; 0.2-0.5 mm; subhedral.
 Olivine? - ~1%; 0.3-1 mm; subhedral.
 Clinopyroxene? - <1%; up to 1 mm; subhedral.
GROUNDMASS: Fine grained with glassy margins.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Pillow lava.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: ~2%; 0.5-2 mm; varied orientation; filled with calcite and brown and greenish clays, highly fractured.



130-807C-86R-2

UNIT 4G: APHYRIC BASALT

Piece 1

CONTACTS: Glassy.
PHENOCRYSTS:
 Plagioclase - <1%; 0.3-0.5 mm; euhedral to subhedral.
 Olivine? - ~1%; 0.3-1 mm; euhedral to subhedral.
GROUNDMASS: Fine grained to glassy at margins.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Pillow lava.
ALTERATION: Slight.
VEINS/FRACTURES: <1%; 0.5-2 mm; varied orientation; filled with calcite and red-brown clay and/or Fe-oxide, some black clay.

UNIT 4G: APHYRIC BASALT

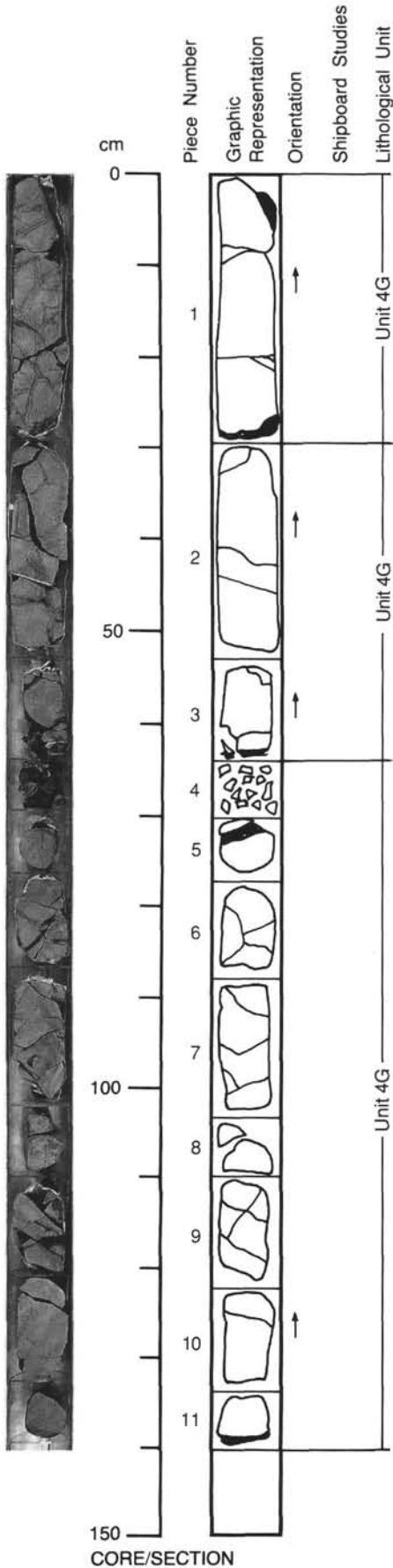
Pieces 2,3

CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - <1%; 0.2-0.5 mm; subhedral.
 Clinopyroxene - ~1%; 0.2-0.8 mm; subhedral to euhedral.
GROUNDMASS: Very fine grained with glassy lower margin
VESICLES: Nonvesicular
COLOR: Medium gray.
STRUCTURE: Pillow lava.
ALTERATION: Slight.
VEINS/FRACTURES: <<1%; <0.5 mm; varied; one calcite vein (~2 mm) at glass margin.

UNIT 4G: APHYRIC BASALT

Pieces 4-11

CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - <1%; 0.3-0.5 mm; subhedral to euhedral.
 Olivine? - ~1%; 0.3-1 mm; euhedral.
 Clinopyroxene? - <1%; 0.3-1 mm; subhedral to euhedral.
GROUNDMASS: Fine grained with glassy margins.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Pillow lava.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <1%; <0.5-2 mm; varied orientation; filled with calcite and dark green clay.
ADDITIONAL COMMENTS: Piece 4 consists of small chips of altered glass and basalt;
 Piece 5 has top of inter-pillow calcite breccia with glass clasts totally altered to green clay.



130-807C-86R-3

UNIT 4G: APHYRIC BASALT

Pieces 1,2

CONTACTS: Glassy.**PHENOCRYSTS:** Some plagioclase is associated with olivine and/or clinopyroxene.

Plagioclase - <1%; 0.3-0.5 mm; euhedral to subhedral.

Olivine? - ~1%; 0.3-0.8 mm; euhedral to subhedral.

Clinopyroxene? - <1%; 0.3-0.8 mm; euhedral to subhedral.

GROUNDMASS: Fine grained.**VESICLES:** Nonvesicular.**COLOR:** Medium gray.**STRUCTURE:** Pillow lava.**ALTERATION:** Slight.**VEINS/FRACTURES:** ~2%; <0.5-2 mm; varied orientation; filled with brown and green clay, calcite.

UNIT 4G: APHYRIC BASALT

Pieces 3,4

CONTACTS: Glassy.**PHENOCRYSTS:**

Plagioclase - <1%; 0.3-0.8 mm; subhedral to euhedral.

Olivine? - ~1%; 0.3-1 mm; subhedral to euhedral.

Clinopyroxene? - <1%; 0.3-0.8 mm; subhedral to euhedral.

GROUNDMASS: Fine grained, glassy at top margin.**VESICLES:** Nonvesicular.**COLOR:** Medium gray.**STRUCTURE:** Pillow lava.**ALTERATION:** Slight to moderate.**VEINS/FRACTURES:** <1%; <1 mm; subhorizontal to about 45°; a few radial pillow cracks. Filled with brown and green clays.

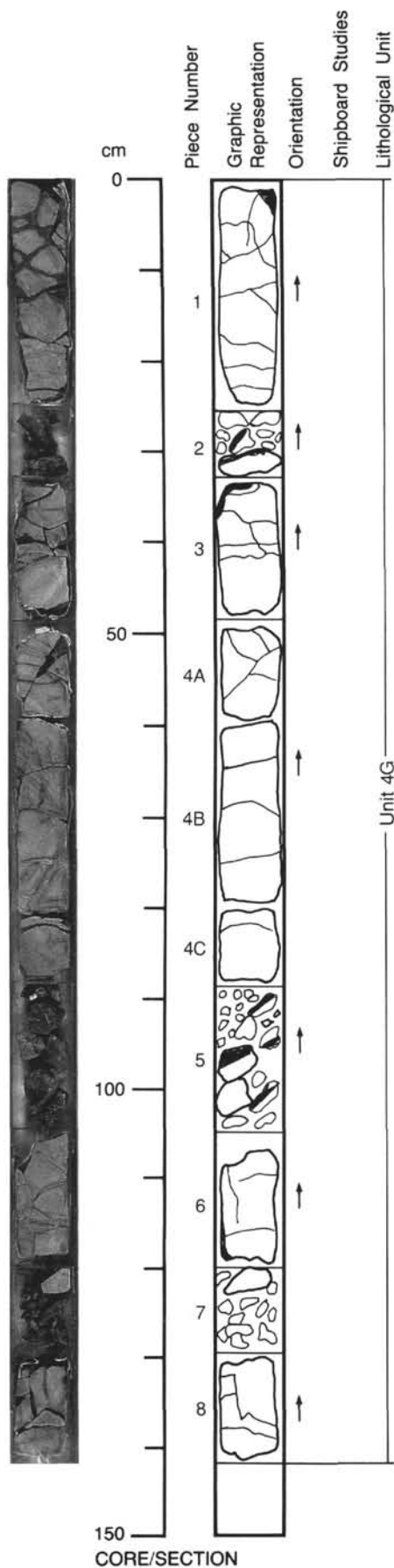
UNIT 4G: APHYRIC BASALT

Pieces 5-8

CONTACTS: Glassy.

Plagioclase - <1%; 0.2-1 mm; euhedral to subhedral.

Olivine - ~1%; 0.2-0.8 mm; subhedral to euhedral.

GROUNDMASS: Fine grained to glass (highly altered) in Piece 5.**VESICLES:** Nonvesicular.**COLOR:** Medium gray.**STRUCTURE:** Pillow lava.**ALTERATION:** Slight to moderate, high in chips from Pieces 5 and 7.**VEINS/FRACTURES:** ~1%; <1 mm; varied orientation; highly fractured; filled with brown clay, minor calcite.

130-807C-86R-4

UNIT 4G: APHYRIC BASALT

Pieces 1-3

CONTACTS: None.

PHENOCRYSTS:

Plagioclase - <1%; 0.2-0.5 mm; euhedral.
Olivine? - ~1%; 0.2-0.8 mm; euhedral.

GROUNDMASS: Fine grained.

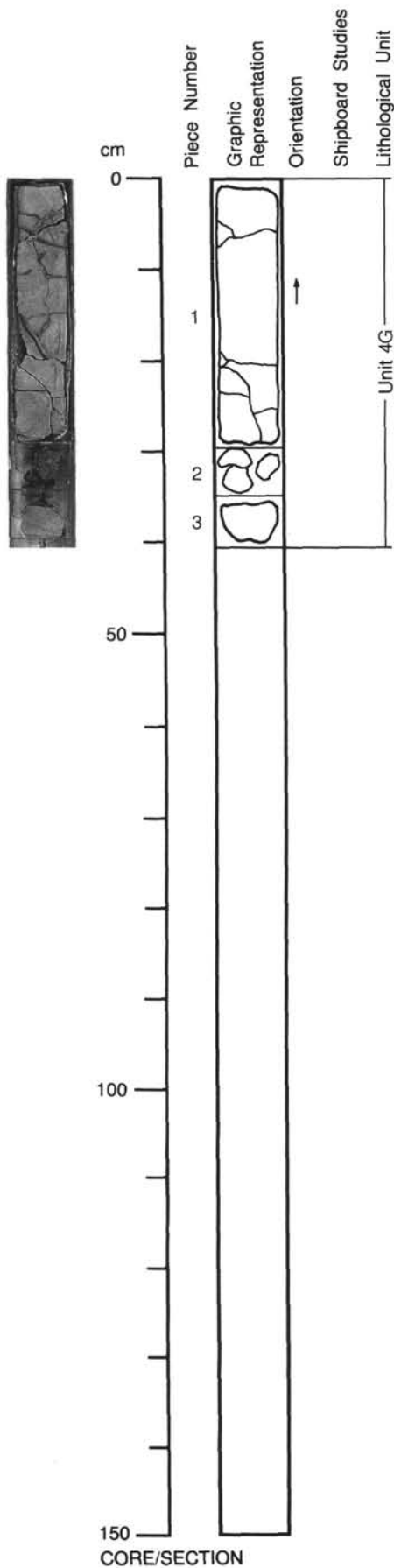
VESICLES: Nonvesicular.

COLOR: Medium gray.

STRUCTURE: Massive, probably pillow.

ALTERATION: Slight to moderate.

VEINS/FRACTURES: <1%; <0.5-2 mm; subvertical to subhorizontal; filled with brown clay and minor calcite.



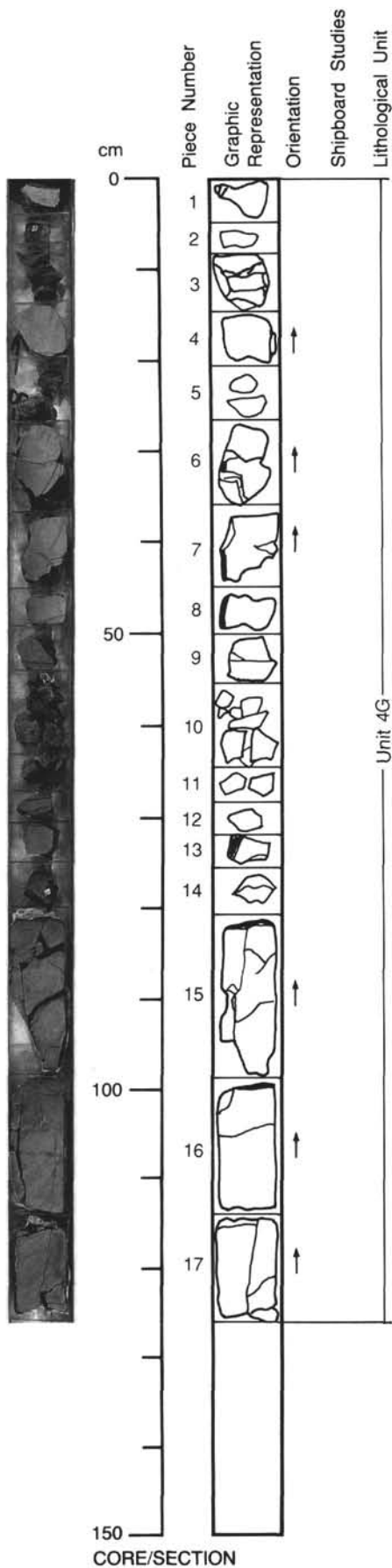
CORE/SECTION

130-807C-87R-1

UNIT 4G: APHYRIC BASALT

Pieces 1-17

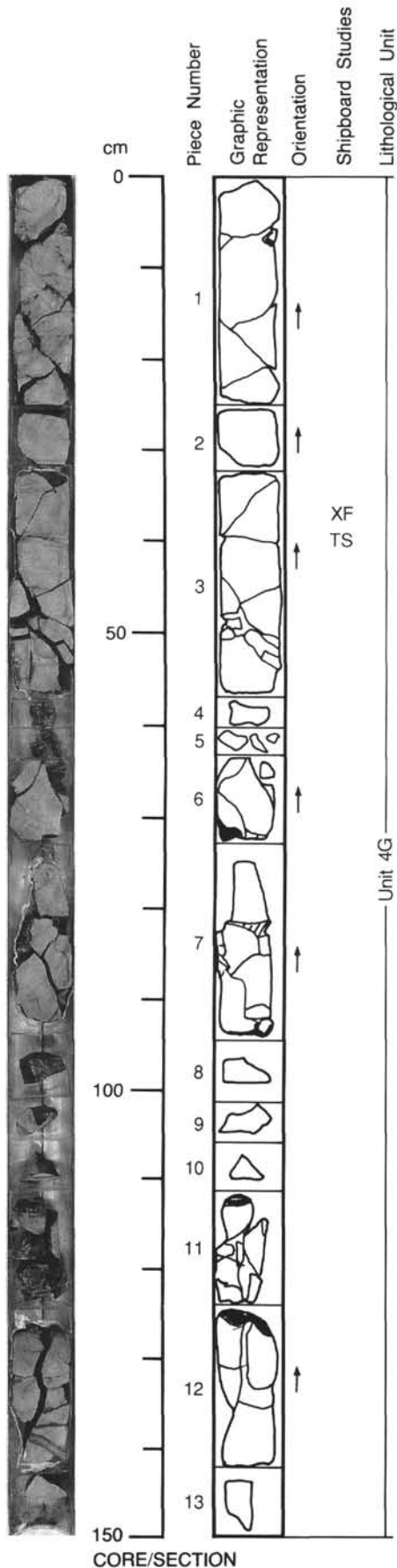
CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - <<1%; 0.3-0.5 mm; subhedral.
 Olivine? - ~1%; 0.3-0.8 mm; euhedral to subhedral.
GROUNDMASS: Fine grained with glassy margins.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Pillow fragments.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <1%; <1 mm; varied orientation; filled with black clay and minor calcite.



130-807C-87R-2

UNIT 4G: APHYRIC BASALT

Pieces 1-13



CONTACTS: Glassy rim fragments.

PHENOCRYSTS:

Plagioclase - <1%; 0.3-0.8 mm; subhedral, some in association with olivine and/or clinopyroxene.

Olivine? - ~1%; 0.3-1 mm; subhedral to euhedral.

Clinopyroxene? - <1%; 0.3-1 mm; subhedral to euhedral.

GROUNDMASS: Fine grained to glassy near several rims.

VESICLES: Nonvesicular.

COLOR: Medium gray with blotchy, black areas of alteration in Piece 1.

STRUCTURE: Pillow lava fragments.

ALTERATION: Slight to high in Piece 1, irregular blotches of black to dark green clay up to 3 cm across in Piece 1.

VEINS/FRACTURES: ~1%; <0.5-2 mm; varied; highly fractured; veins filled with dark green to black clay, some Fe-oxide (?), minor calcite.

130-807C-87R-3

UNIT 4G: APHYRIC BASALT

Pieces 1-4

CONTACTS: None.

Plagioclase - <<1%; 0.3-0.5 mm; subhedral.

Olivine? - ~1%; 0.3-1 mm; euhedral to subhedral.

GROUNDMASS: Fine grained; some very altered glass in Piece 1.

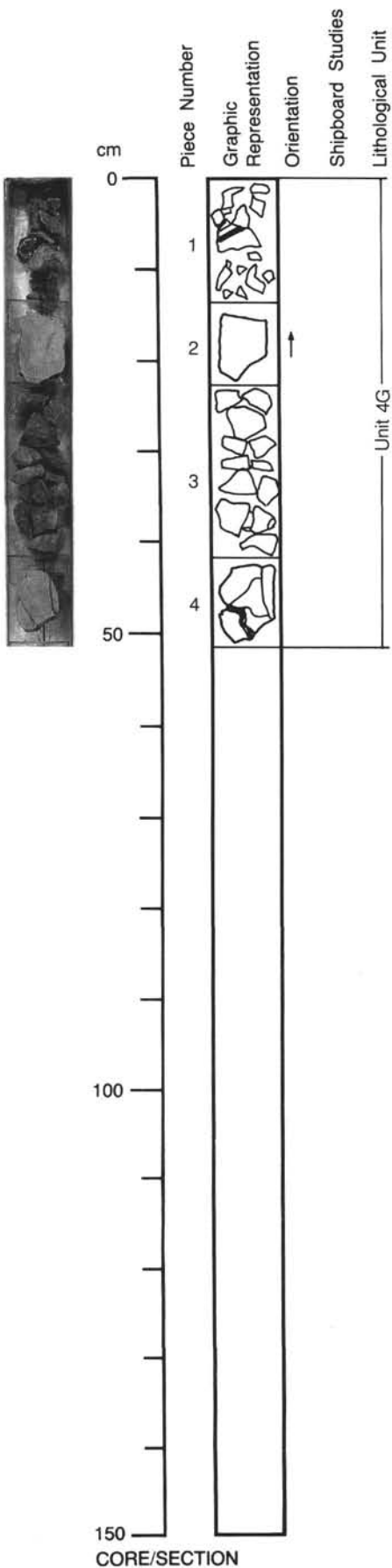
VESICLES: Nonvesicular.

COLOR: Medium gray.

STRUCTURE: Pillows.

ALTERATION: Slight in Pieces 2 and 4.

VEINS/FRACTURES: ~3%; <0.5-3 mm; original orientation unknown; filled with brown clay and/or Fe-oxide.



130-807C-88R-1

UNIT 4G: APHYRIC BASALT.

Pieces 1-5

CONTACTS: None.

PHENOCRYSTS:

- Olivine? - ~1%; 0.2-0.8 mm; subhedral to euhedral.
- Clinopyroxene? - <<1%; 0.2-0.8 mm; subhedral to euhedral.
- Plagioclase - <<1%; 0.2-0.8 mm; euhedral.

GROUNDMASS: Fine grained.

VESICLES: Nonvesicular.

COLOR: Medium gray.

STRUCTURE: Massive, probably thick pillow lava.

ALTERATION: Slight.

VEINS/FRACTURES: <1%; 0.5-1 mm; varied orientation; filled with brown clay and/or oxide.

UNIT 4G: APHYRIC BASALT

Pieces 6-10

CONTACTS: None.

PHENOCRYSTS:

- Olivine? - ~1%; 0.2-1 mm; subhedral to euhedral.
- Clinopyroxene? - <<1%; up to 1 mm; subhedral.
- Plagioclase - <<1%; up to 0.5 mm; subhedral.

GROUNDMASS: Fine grained, glassy upper margin.

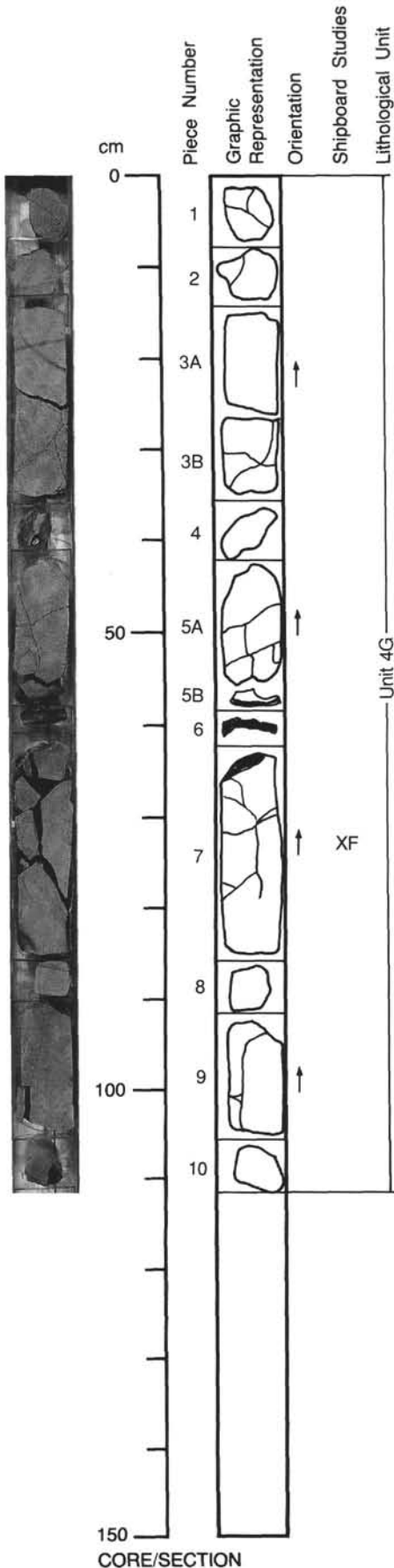
VESICLES: Nonvesicular.

COLOR: Medium gray.

STRUCTURE: Massive, probably thick pillow lava flow.

ALTERATION: Slight.

VEINS/FRACTURES: <1%; ~0.5 mm; varied orientation; filled with dark green clay.



CORE/SECTION

130-807C-88R-2

UNIT 4G: APHYRIC BASALT

Piece 1

CONTACTS: Glass at top and bottom.
PHENOCRYSTS:
 Olivine? - <1%; 0.2-0.8 mm; subhedral.
 Clinopyroxene? - <<1%; 0.2-0.5 mm; subhedral.
 Plagioclase - <<1%; 0.2-0.5 mm; subhedral.
GROUNDMASS: Fine grained, coarser in interior.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive, thick pillow (?).
ALTERATION: Slight except near vein at 34 cm.
VEINS/FRACTURES: <1%; <0.5-3 mm; subhorizontal; irregular brown and black blotches up to 6 mm across.

UNIT 4G: APHYRIC BASALT

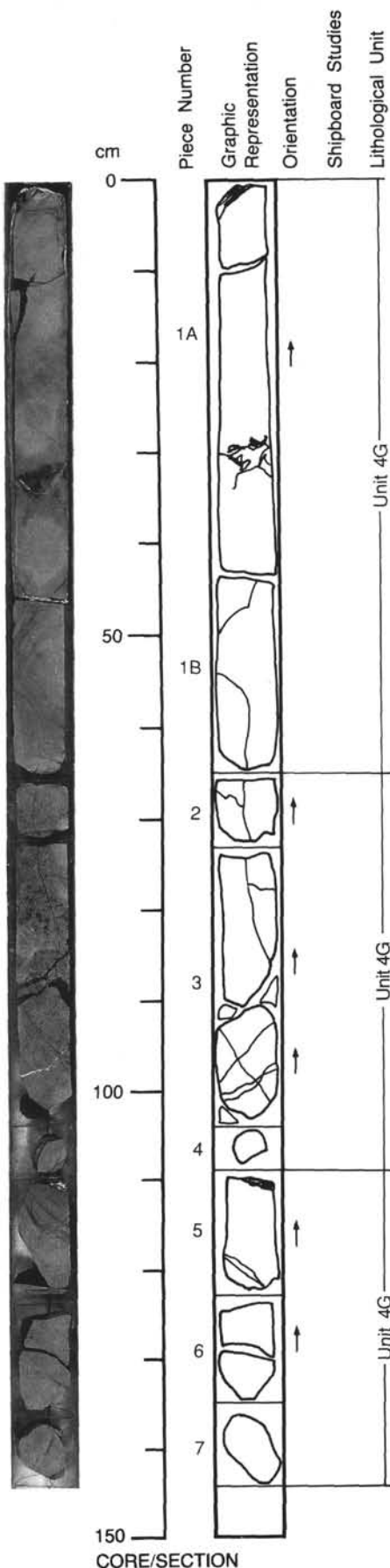
Pieces 2-4

CONTACTS: Upper glassy margin.
PHENOCRYSTS:
 Clinopyroxene? - <1%; 0.2-1 mm; subhedral.
 Olivine? - <1%; 0.2 mm; subhedral.
GROUNDMASS: Fine grained to glassy at top of Piece 2.
VESICLES: Nonvesicular.
COLOR: Medium gray to dark gray and brown in altered patches.
STRUCTURE: Massive.
ALTERATION: Slight to high in central portion.
VEINS/FRACTURES: 2%; <0.5-3.0 mm; varied orientation; one subhorizontal calcite vein; one subvertical dark brown oxide and/or clay vein.

UNIT 4G: APHYRIC BASALT

Pieces 5-7

CONTACTS: Piece 5 has glassy margin.
PHENOCRYSTS:
 Olivine? - ~1%; 0.2-1 mm; euhedral to subhedral.
 Clinopyroxene? - <1%; 0.2-1 mm; euhedral to subhedral.
GROUNDMASS: Fine grained to glassy at top.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Pillow lava.
ALTERATION: Slight.
VEINS/FRACTURES: <1%; ~1 mm; minor radial fractures; calcite in glass (Piece 5).

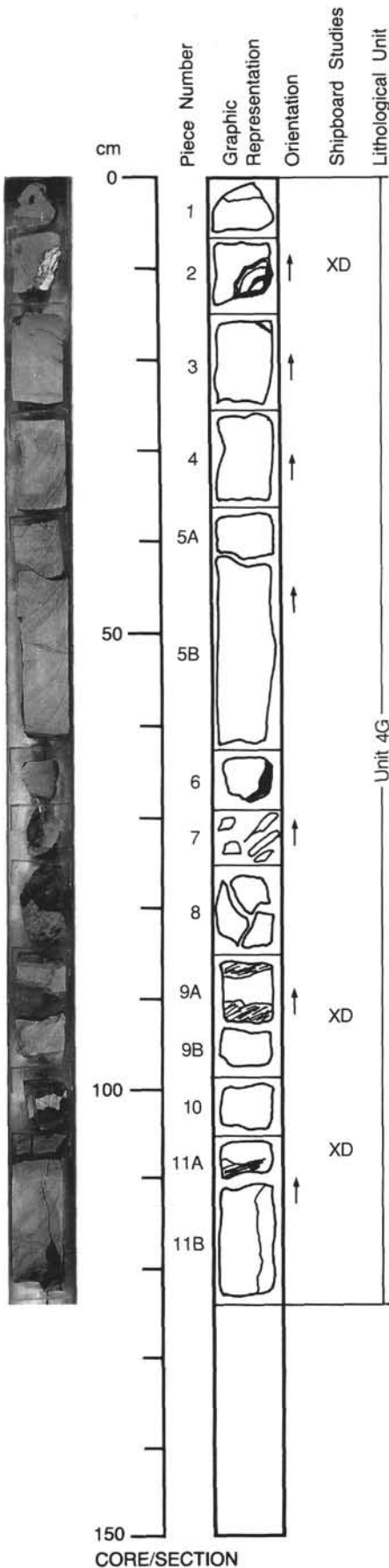


150
CORE/SECTION

130-807C-88R-3

UNIT 4G: APHYRIC BASALT

Pieces 1-11



CONTACTS: Glassy margins in Pieces 2, 3, and 6.

PHENOCRYSTS:

Olivine? - ~1%; 0.2-1 mm; subhedral to euhedral.

Clinopyroxene? - <<1%; 0.2-1 mm; subhedral.

Plagioclase - <<1%; 0.2-0.5 mm; subhedral

GROUNDMASS: Fine grained to glassy margins.

VESICLES: Nonvesicular.

COLOR: Medium gray to dark gray in patches.

STRUCTURE: Pillow to massive.

ALTERATION: Slight to high.

VEINS/FRACTURES: Piece 2 has part of a vein ~1-3 cm thick between two inter-pillow glass and calcite rims. The vein material is light gray-green, hard, and effervesces only slightly in HCl (baked sediment?). Pieces 3-6 have <1% veins/fractures, <0.5 mm-1.5 mm, varied orientations between horizontal and 45°, infilled by orange-brown mineral; Piece 9 has 2 veins (one 3 cm wide) of a blue-green mineral with blebs of an orange-brown mineral, along with black clay.

ADDITIONAL COMMENTS: Piece 11 has veins at upper and lower contacts with basalt. Vein material nearest the contact with the basalt consists of a dark-green to blue-green mineral, 0.5-1 cm thick. The material which forms the center of the vein consists of a dark blue-gray mineral with patches of a red-brown mineral that has a slight metallic to waxy luster on fresh cut surfaces.

130-807C-88R-4

UNIT 4G: APHYRIC BASALT

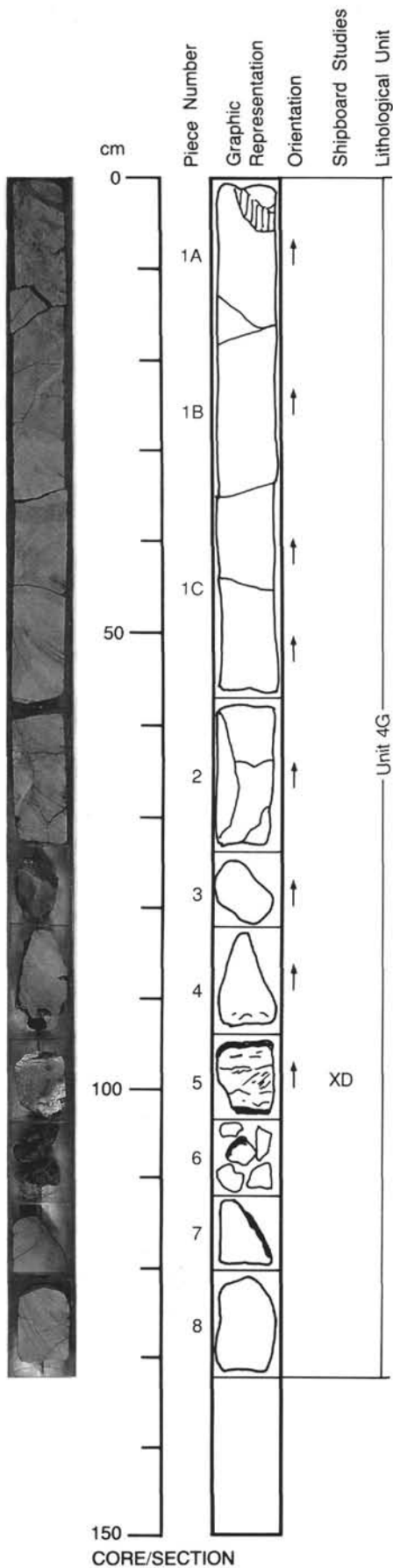
Pieces 1-4

CONTACTS: None.
PHENOCRYSTS:
 Olivine? - ~1%; 0.2-0.8 mm; subhedral to euhedral.
 Clinopyroxene? - <<1%; 0.2-0.8 mm; subhedral.
 Plagioclase - <<1%; 0.2-0.8 mm; subhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray to bluish or greenish gray in altered patches.
STRUCTURE: Massive.
ALTERATION: Slight to high, especially top of Piece 1.
VEINS/FRACTURES: ~3%; <0.5 mm to >3 cm; varied orientation; thin veins consist of green and brown minerals; one thick vein at the top with ~ 6-10 mm dark green mineral (clay?) in layer nearest basalt, top 1.5 cm contains dark-gray and reddish-brown minerals.

UNIT 4G: APHYRIC BASALT

Pieces 5-8

CONTACTS: Glass on Piece 7 (pillow margin).
PHENOCRYSTS:
 Olivine? - ~1%; 0.2-1 mm; subhedral.
 Clinopyroxene? - <<1%; 0.2-0.5 mm; subhedral.
 Plagioclase - <<1%; 0.2-0.5 mm; subhedral.
GROUNDMASS: Fine grained to glassy at margin of Piece 7.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive-pillow.
ALTERATION: Slight.
VEINS/FRACTURES: <1%; <1 mm; varied orientation; filled with brown clay.
ADDITIONAL COMMENTS: Piece 5 is an interflow limestone breccia with green altered glass shards on either side of a 2.5-4 cm thick vein with irregular margins. Vein filling is light brown on top, non-effervescing in HCl, darker brown in middle, with calcite and light green mineral on bottom.



130-807C-88R-5

UNIT 4G: APHYRIC BASALT

Pieces 1-7

CONTACTS: None.

PHENOCRYSTS:

- Olivine? - ~1%; 0.2-0.8 mm; subhedral.
- Clinopyroxene? - <<1%; 0.2-0.5 mm; subhedral.
- Plagioclase - <<1%; 0.2-0.5 mm; subhedral.

GROUNDMASS: Fine grained.

VESICLES: Nonvesicular.

COLOR: Medium gray.

STRUCTURE: Massive in Piece 1.

ALTERATION: Slight.

VEINS/FRACTURES: <1%; <0.5 to 1 mm; varied orientation; filled with brown clay (?).
lesser calcite.



130-807C-89R-1

UNIT 4G: APHYRIC BASALT

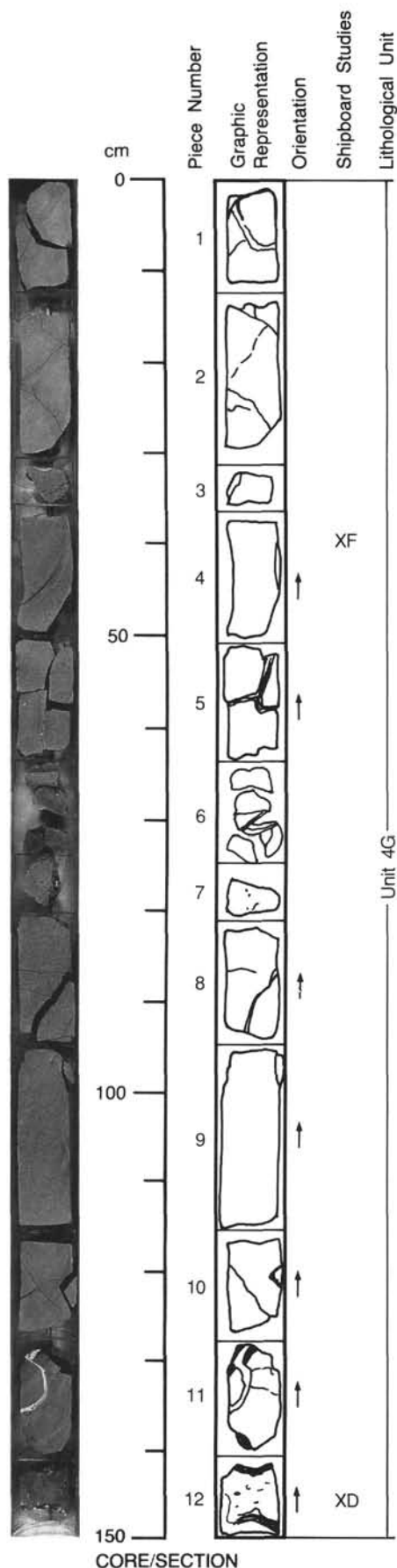
Pieces 1-10

CONTACTS: None.
PHENOCRYSTS:
 Olivine? - <1%; 0.2-0.8 mm; euhedral to subhedral.
 Clinopyroxene? - <<1%; 0.2-0.8 mm; subhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray, bluish tinge in altered zone near veins.
STRUCTURE: Massive.
ALTERATION: Slight, moderate in a few small patches, minor pyrite in groundmass.
VEINS/FRACTURES: <<1%; <0.5-1 mm; varied orientation; dark blue clay, calcite and pyrite (fracture in Piece 5).

UNIT 4G: APHYRIC BASALT

Pieces 11,12

CONTACTS: Glassy upper and lower margins.
PHENOCRYSTS:
 Olivine? - ~1%; 0.2-0.8 mm; euhedral to subhedral.
 Clinopyroxene? - <1%; 0.2-1 mm; subhedral.
 Plagioclase - <1%; 0.2-1 mm; subhedral.
GROUNDMASS: Fine grained to glassy at margins.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Small pillow.
ALTERATION: Slight.
VEINS/FRACTURES: ~5%; 2-5 mm; varied orientation; calcite vein; <0.5 mm brown clay and/or Fe-oxide (?) vein.
ADDITIONAL COMMENTS: Piece 12 is a vein of a dark-olive green mineral, as in Piece 2, Core 130-807C-88R. Non-effervescent in HCl. Contains 0.5-2 mm clasts (?) of calcite which look like subhedral pseudomorphs of another mineral. Upper and lower portions of this piece are glassy-calcite inter-pillow breccias. Could be baked clay sediment.



130-807C-89R-2

UNIT 4G: APHYRIC BASALT

Pieces 1-6

CONTACTS: Glassy top.

PHENOCRYSTS:

Olivine? - ~1%; 0.2-1 mm; euhedral to subhedral.

Clinopyroxene? - <<1%; 0.2-0.5 mm; subhedral.

Plagioclase - <<1%; 0.2-0.5 mm; subhedral, associated with olivine and/or clinopyroxene.

GROUNDMASS: Fine grained, glassy at top margin.

VESICLES: Nonvesicular.

COLOR: Medium gray; bluish gray in altered patches.

STRUCTURE: Massive.

ALTERATION: Slight to moderate; bluish patches in Pieces 1 and 2.

VEINS/FRACTURES: ~1%; <0.5-2 mm; varied orientation; mostly in Piece 1; filled with brown clay and dark brown to dark blue-gray clay; minor calcite.

UNIT 4G: APHYRIC BASALT

Pieces 7-10

CONTACTS: Lower glassy margin.

PHENOCRYSTS:

Olivine? - ~1%; 0.2-0.5 mm; euhedral to subhedral.

GROUNDMASS: Fine grained, glassy at bottom.

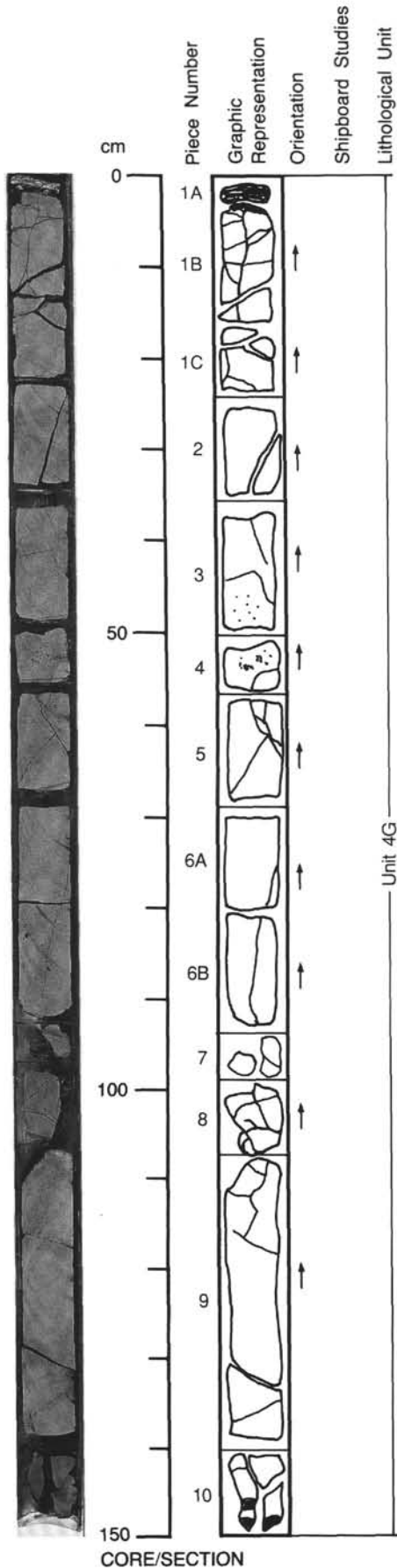
VESICLES: Nonvesicular.

COLOR: Medium gray.

STRUCTURE: Pillow or thin, massive, flow.

ALTERATION: Slight to moderate.

VEINS/FRACTURES: <1%; <1 mm wide; varied orientation; filled with brown or dark blue-green clays.



130-807C-89R-3

UNIT 4G: APHYRIC BASALT

Pieces 1-8

CONTACTS: None.

PHENOCRYSTS:

Plagioclase - <<1%; 0.2-0.8 mm; subhedral.

Olivine? - ~1%; 0.2-0.8 mm; subhedral to euhedral.

Clinopyroxene? - <1%; 0.2-0.8 mm; subhedral to euhedral.

GROUNDMASS: Fine grained.

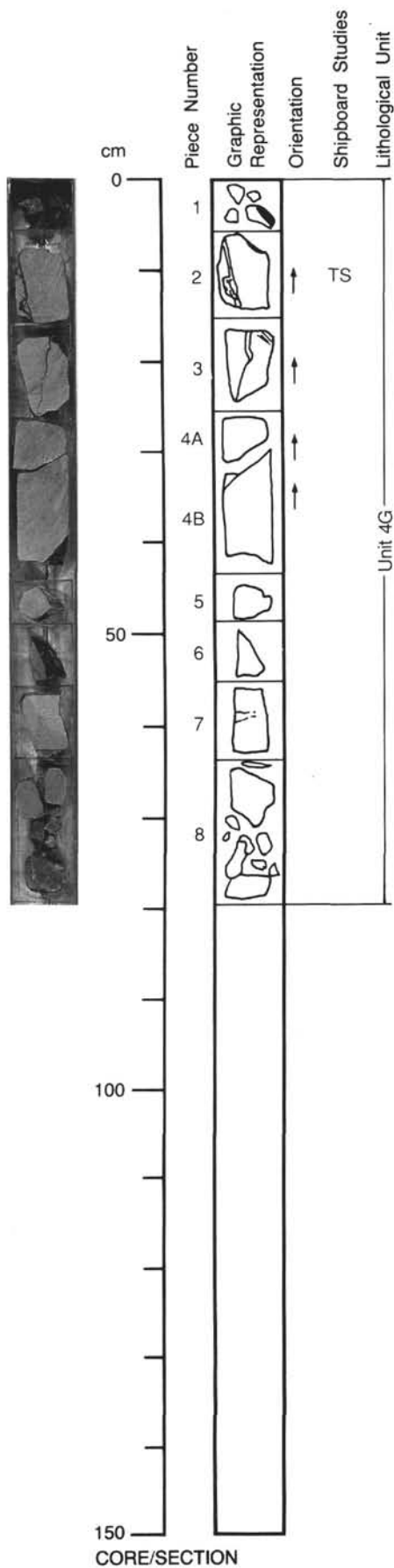
VESICLES: Nonvesicular.

COLOR: Medium gray.

STRUCTURE: Massive or thick pillow lava.

ALTERATION: Slight.

VEINS/FRACTURES: ~2%; <1-3 mm; subvertical; Pieces 2 and 3 have brownish mineral and dark blue-green to black clays.

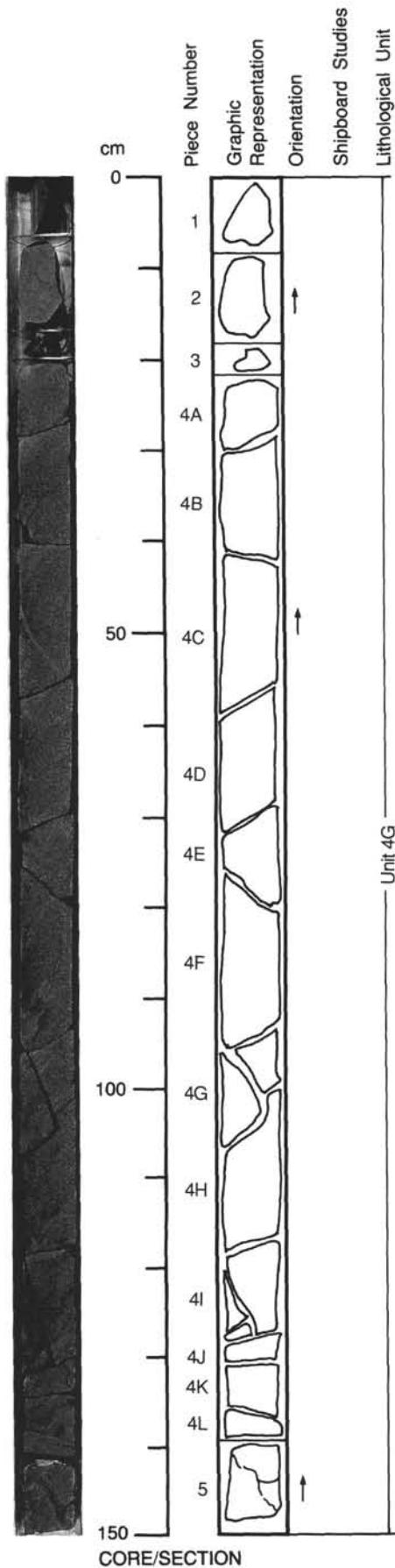


130-807C-90R-1

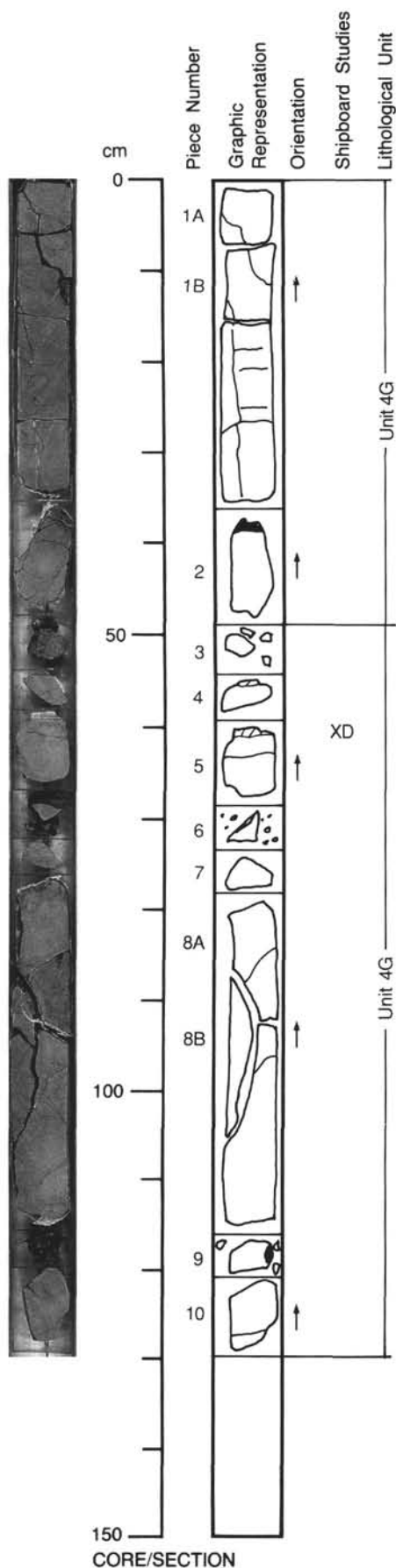
UNIT 4G: APHYRIC BASALT

Pieces 1-5

CONTACTS: None.
PHENOCRYSTS: Olivine? - <<1%; ~1 mm; subhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive flow.
ALTERATION: Slight.
VEINS/FRACTURES: <<1%; <1 mm; varied orientation; small amounts of calcite, dark smectite and traces of pyrite.



130-807C-90R-2



UNIT 4G: APHYRIC BASALT

Pieces 1, 2

CONTACTS: Glassy pillow margin, Piece 2.
PHENOCRYSTS: Olivine mainly altered to dark green clay.
 Olivine - ~1%; 0.2-0.6 mm; subhedral to euhedral.
 Plagioclase - <1%; 0.2-1 mm; subhedral to euhedral.
GROUNDMASS: Fine grained to glassy (margin of Piece 2).
VESICLES: Nonvesicular.
COLOR: Medium gray
STRUCTURE: Pillow.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: 1%; 0.5-3 mm; subvertical to subhorizontal; calcite, green blue (clay?) mineral, orange-brown mineral (goethite).

UNIT 4G: APHYRIC BASALT

Pieces 3-8

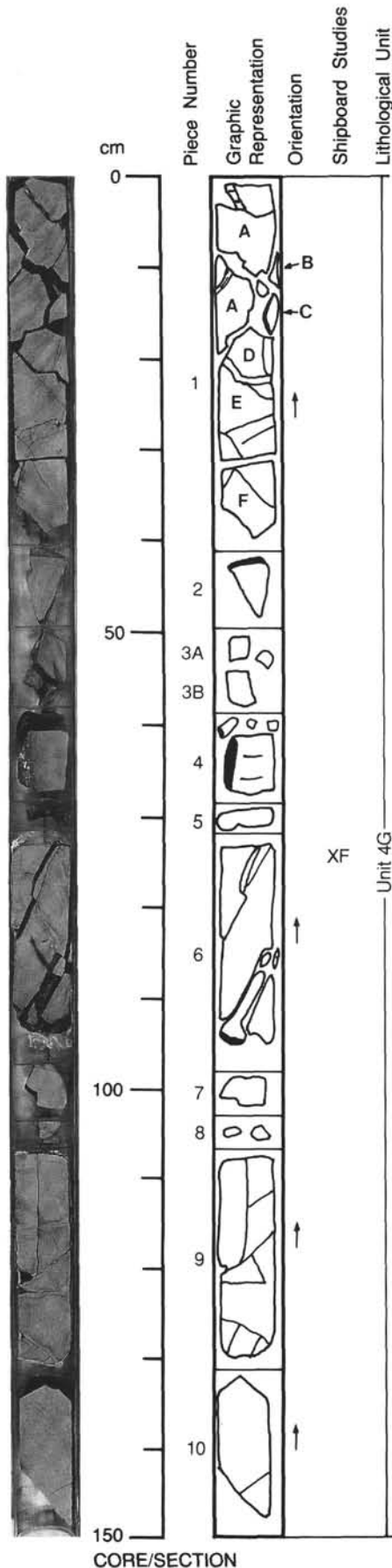
CONTACTS: None.
PHENOCRYSTS:
 Olivine - <1%; 0.2-0.6 mm; subhedral to euhedral.
 Plagioclase - <<1%; 0.2-1 mm; subhedral to euhedral.
GROUNDMASS: Fine grained.
VESICLES: ~1%; up to 4 mm; oval to irregular; top of Piece 8A; infilled with green/brown clays.
COLOR: Medium gray.
STRUCTURE: Pillow.
ALTERATION: Moderate.
VEINS/FRACTURES: ~1%; 1-3 mm; varied orientation; infilled with calcite, green-blue clay (?), an orange-brown mineral (goethite?). Piece 4 and 5 have a subhorizontal 1 cm vein containing calcite and a light green mineral, with lesser amounts of orange-brown mineral. The margin of the vein consists of very dark gray-green mineral (0.5 mm thick). Veins also are located in Pieces 1B and 8B.

UNIT 4G: APHYRIC BASALT

Pieces 9, 10

CONTACTS: None.
PHENOCRYSTS:
 Olivine - ~1%; 0.2-0.5 mm; subhedral to euhedral.
 Plagioclase - <1%; 0.2-1mm; subhedral to euhedral.
GROUNDMASS: Fine grained to glassy (margin Piece 9).
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Pillow.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <1%; 0.5-1 mm; varied orientation; filled with calcite, clays and orange-brown mineral (goethite?).

130-807C-90R-3



UNIT 4G: APHYRIC BASALT

Piece 1

CONTACTS: None.
PHENOCRYSTS:
 Olivine - ~1%; 0.3-0.8 mm; subhedral to euhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Pillow.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: ~1%; 0.5-5 mm; varied orientation; calcite, filled with dark gray-blue clay (?), pyrite, a light orange-brown mineral, with semi-metallic luster (goethite?).

UNIT 4G: APHYRIC BASALT

Pieces 2-6

CONTACTS: Glassy pillow margin (Pieces 2, 4, and 6).
PHENOCRYSTS:
 Olivine? - ~1%; 0.3-1 mm; subhedral to euhedral.
GROUNDMASS: Fine grained to glassy.
VESICLES: Nonvesicular.
COLOR: Medium to dark gray.
STRUCTURE: Pillow.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <1%; 0.5-4 mm; varied orientation; glass margin on Piece 4 is heavily calcite veined. Piece 6 has 1 mm thick vein at top consisting of a dark gray-green mineral with small (~0.2 mm) blebs of a orange-brown mineral (goethite?).

UNIT 4G: APHYRIC BASALT

Pieces 7-10

CONTACTS: None.
PHENOCRYSTS:
 Olivine - <1%; 0.3-1 mm; subhedral to euhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight.
VEINS/FRACTURES: ~1%; 0.5-2 mm; vertical, subhorizontal and ~ 45°; dark gray-green clay, minor pyrite.

130-807C-90R-4

UNIT 4G: APHYRIC BASALT

Pieces 1-5

CONTACTS: Glassy pillow margin (Piece 4).

PHENOCRYSTS:

Olivine - ~1%; 0.2-0.8 mm; subhedral to euhedral.

Plagioclase - <<1%; 0.2-0.8 mm; subhedral to euhedral.

GROUNDMASS: Fine grained.

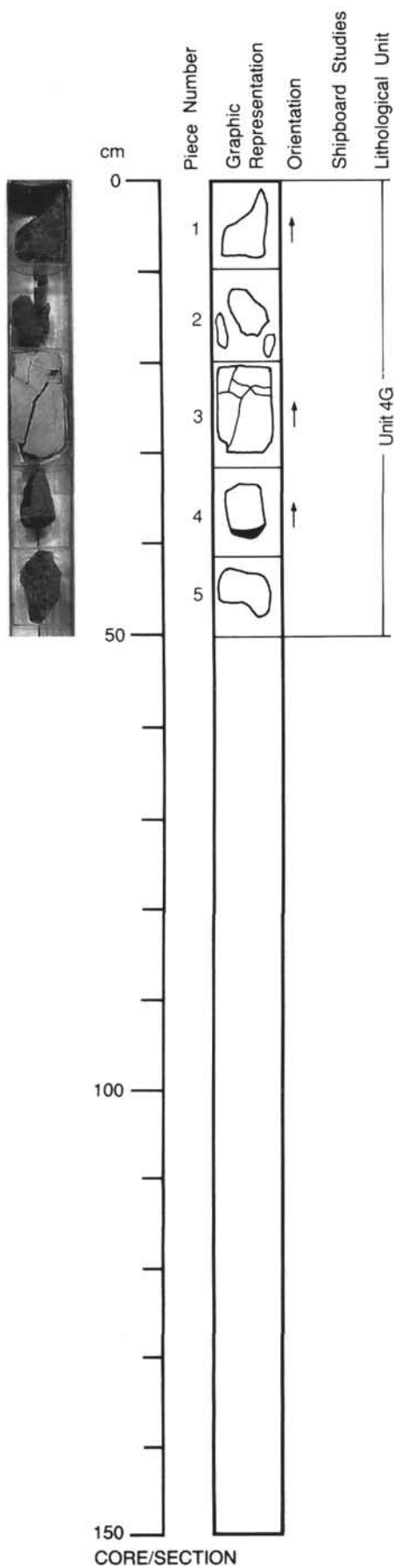
VESICLES: Nonvesicular.

COLOR: Medium to dark gray.

STRUCTURE: Pillow.

ALTERATION: Slight to moderate.

VEINS/FRACTURES: <1%; ~0.5 mm; varied orientation; fracture surfaces stained black (manganese?), yellow-brown (Fe-oxides?) and/or dark green.

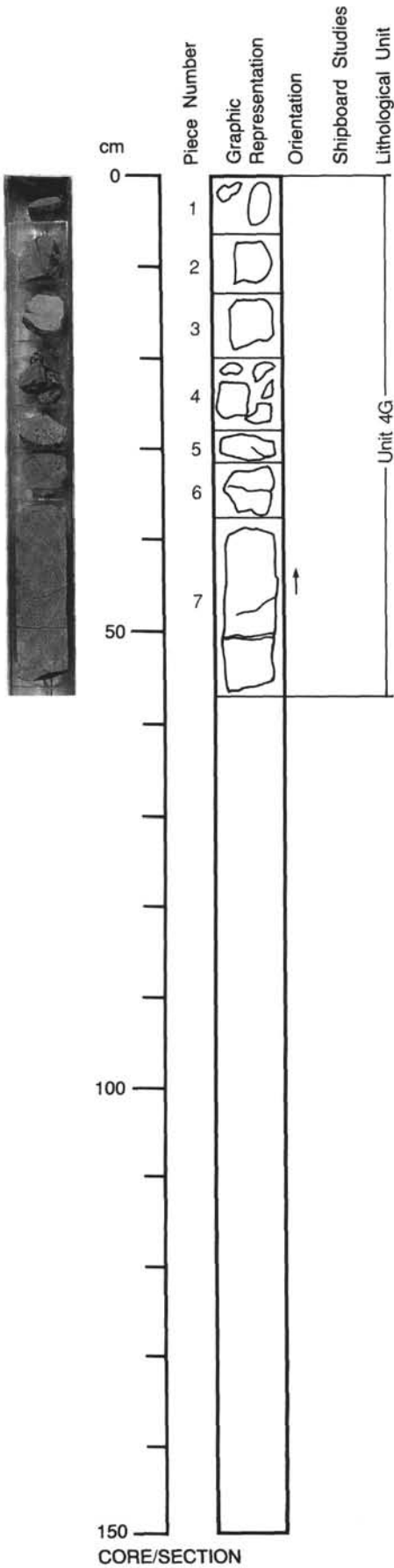


130-807C-91R-1

UNIT 4G: APHYRIC BASALT

Pieces 1-7

CONTACTS: None.
PHENOCRYSTS:
 Olivine - <1%; 0.3-1 mm; subhedral to euhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: <1%; 0.5-1 mm; subhorizontal; filled with dark gray clay, minor pyrite.

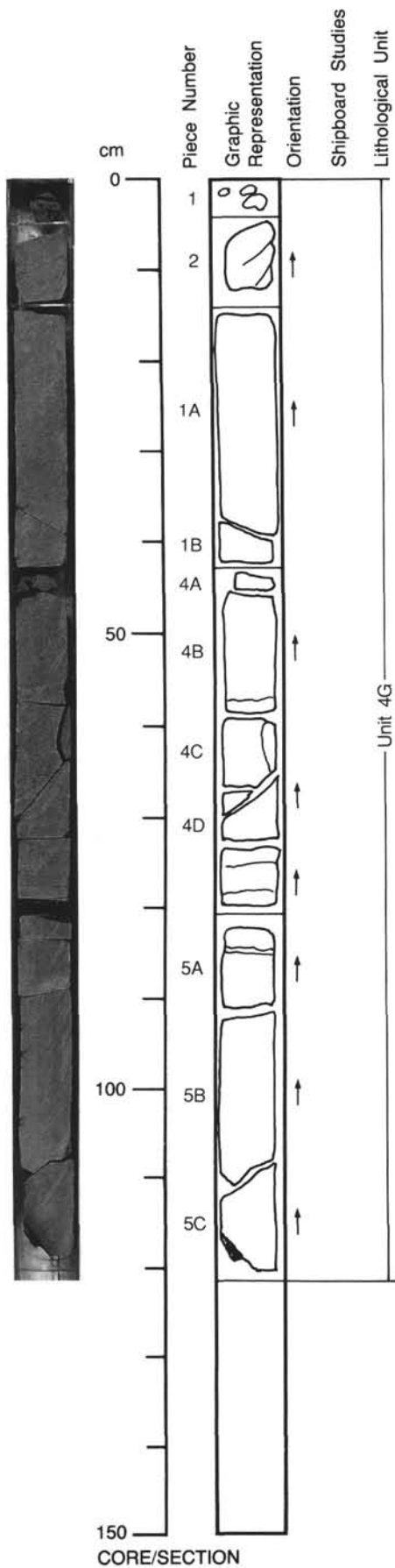


130-807C-92R-1

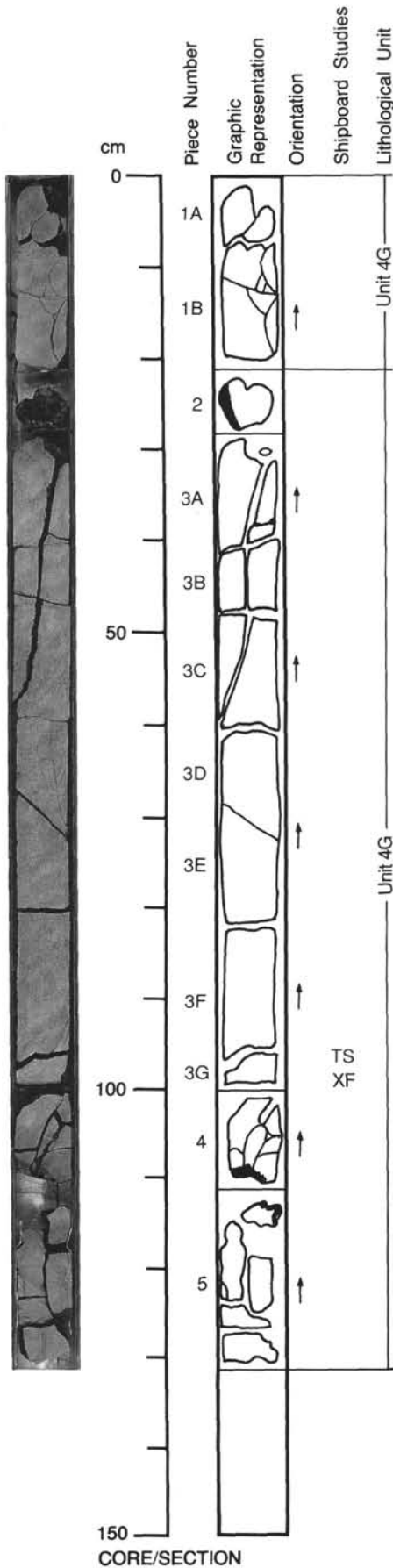
UNIT 4G: APHYRIC BASALT

Pieces 1-5

CONTACTS: Glassy flow margin, bottom of Piece 5C.
PHENOCRYSTS:
 Olivine - ~1%; 0.2-1 mm; subhedral to euhedral.
GROUNDMASS: Fine grained to glassy (bottom of Piece 5C).
VESICLES: Nonvesicular.
COLOR: Medium to dark gray.
STRUCTURE: Massive.
ALTERATION: Slight.
VEINS/FRACTURES: <<1%; <1 mm; subhorizontal and 45°; filled with clay and calcite.



130-807C-92R-2



UNIT 4G: APHYRIC BASALT

Piece 1

CONTACTS: None.
PHENOCRYSTS:
 Olivine - <1%; 0.2-0.8 mm; anhedral to euhedral.
 Plagioclase - <<1%; 0.2-1mm; subhedral to euhedral.
GROUNDMASS: Fine grained.
VESICLES: Nonvesicular.
COLOR: Medium gray.
STRUCTURE: Pillow.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: 1%; <0.5-2 mm; varied orientation; infilled by an orange-brown mineral (goethite?), minor calcite, and green clays.

UNIT 4G: APHYRIC BASALT

Pieces 2-5

CONTACTS: Glassy flow margins, Pieces 2, 4, and 5.
PHENOCRYSTS:
 Olivine - <1%; 0.2-0.8 mm; subhedral to euhedral.
 Plagioclase - <<1%; 0.2-1 mm; subhedral to euhedral.
GROUNDMASS: Fine grained to glassy (Pieces 2, 4, and 5).
VESICLES: Nonvesicular.
COLOR: Medium gray to gray-black.
STRUCTURE: Thick pillow or massive.
ALTERATION: Slight to moderate.
VEINS/FRACTURES: ~1%; <0.5-2 mm; mostly subvertical and subhorizontal; infilled by blue-gray clays, and an orange-brown mineral. Glass in Piece 4 heavily veined by calcite.

130-807C-93R-1

UNIT 4G: APHYRIC BASALT

Pieces 1-18

CONTACTS: Glassy rims on Pieces 6 and 7.

PHENOCRYSTS:

Olivine - ~1%; 0.2-0.8 mm; subhedral to euhedral.

Plagioclase - <<1%; 0.2-0.5 mm; subhedral.

GROUNDMASS: Fine grained to glassy (rims of Pieces 6 and 7).

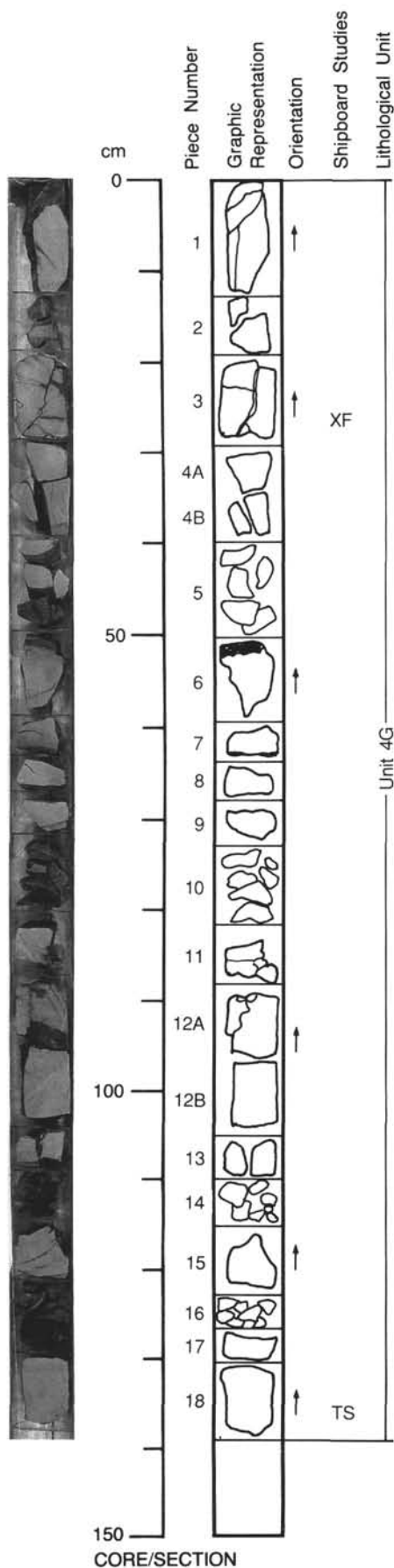
VESICLES: Nonvesicular.

COLOR: Medium gray.

STRUCTURE: Fragments of pillow lava.

ALTERATION: Slight, to moderate in Pieces 11 and 12 (near veins).

VEINS/FRACTURES: ~1%; <1->6 mm; varied orientation; filled with clay and small amounts of pyrite; 1 mm thick calcite veins in glass on Piece 6.



130-807C-93R-2

UNIT 4G: APHYRIC BASALT

Pieces 1-14

CONTACTS: None.

Olivine - ~1%; 0.2-1 mm; euhedral to subhedral.

Plagioclase - <<1%; 0.2-1 mm; subhedral.

GROUNDMASS: Fine grained.

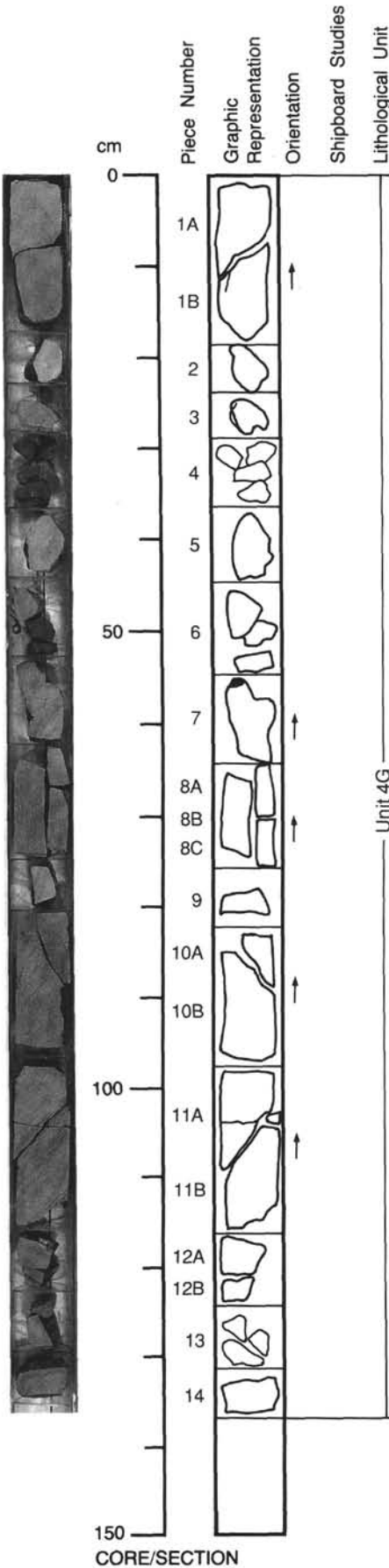
VESICLES: Nonvesicular.

COLOR: Medium gray.

STRUCTURE: Pillow lava fragments; Pieces 7-14 are possibly fragments of more massive* flow.

ALTERATION: Slight to moderate in a few patches.

VEINS/FRACTURES: <<1%; <1 mm; varied orientation; filled with dark gray clay and minor pyrite.



130-807C-93R-3

UNIT 4G: APHYRIC BASALT

Pieces 1-6

CONTACTS: None.

PHENOCRYSTS:

Olivine - ~1%; 0.2-1 mm; subhedral to euhedral.

GROUNDMASS: Fine grained; dark band (1-5 mm wide) of mafic minerals in Piece 5.

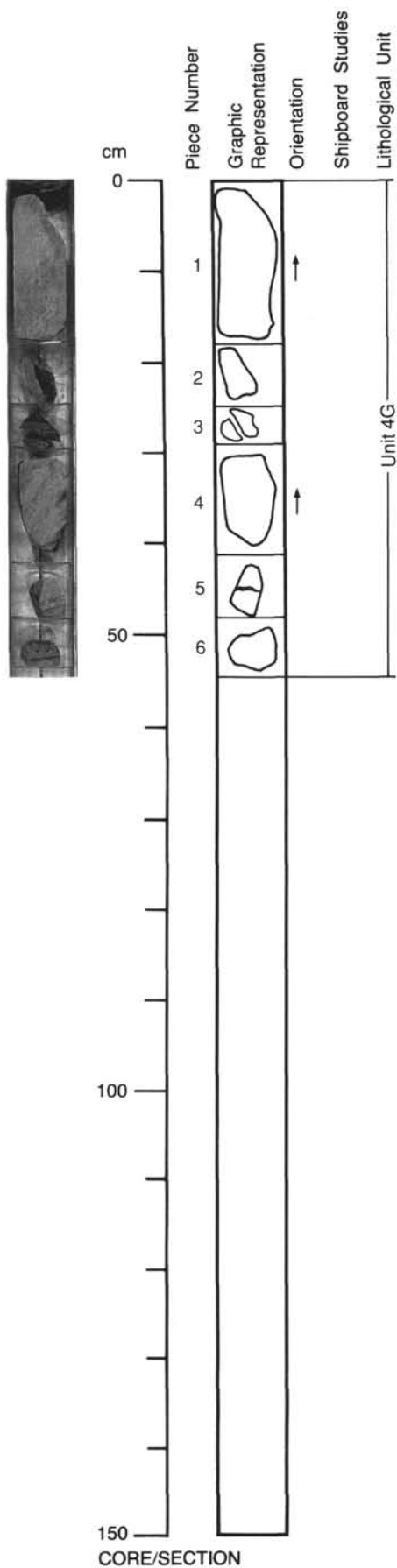
VESICLES: Nonvesicular.

COLOR: Medium gray.

STRUCTURE: Massive. lava fragments.

ALTERATION: Slight to moderate.

VEINS/FRACTURES: None; filled with minor clays and calcite.



SITE 807

130-807C-74R-01 (Piece 6D,124-127 cm) OBSERVER: JJM WHERE SAMPLED: Pillow

ROCK NAME: Aphyric basalt

GRAIN SIZE: Fine grained

TEXTURE: Intersertal

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	<1	<1	0.3-1		euhedral	
Clinopyroxene	<1	<1	~0.3		subhedral	
GROUNDMASS						
Plagioclase	40	40	<0.5-0.1		laths	
Clinopyroxene	15	20	<0.1		anhedral	
Opagues	5	5	<0.05		anhedral	
SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING				COMMENTS
Clays	35	glass				Brownish.
Clays	5	clinopyroxene				Greenish to brown.
Clays	<1	vein				Bright green celadonite and black clay.

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	0				

130-807C-75R-02 (Piece 6D,60-61 cm) OBSERVER: STO WHERE SAMPLED: Pillow interior

ROCK NAME: Aphyric basalt

GRAIN SIZE: Fine grained

TEXTURE: Intergranular

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
Plagioclase	30	30	0.05-0.5		subhedral to euhedral	
Clinopyroxene	10	10	~0.05		anhedral	
SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING				COMMENTS
Clays	50					

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	0				

130-807C-77R-01 (Piece 7,46-48 cm) OBSERVER: JJM WHERE SAMPLED: Pillow interior

ROCK NAME: Aphyric basalt

GRAIN SIZE: Fine grained

TEXTURE: Intersertal

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	<1	<1	0.5-1		euhedral	
Clinopyroxene	<<1	<<1	0.3-0.5		anhedral	
GROUNDMASS						
Plagioclase	30	30	?		subhedral	
Clinopyroxene	10	20	?		anhedral	
Glass	10	47	?		?	
Opagues	3	3	?		?	
SECONDARY MINERALOGY						
	PERCENT	REPLACING/ FILLING				COMMENTS
Clays and oxides	10	clinopyroxene			Red-brown.	
Clays	37	glass			Dark brown.	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	0				

130-807C-78R-02 (Piece 7,72-73 cm) OBSERVER: STO WHERE SAMPLED: Part of massive flow

ROCK NAME: Aphyric basalt

GRAIN SIZE: Fine grained

TEXTURE: Subophitic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	<1	<1	~0.5		euhedral laths	
Clinopyroxene	<1	<1	~0.4		anhedral	
GROUNDMASS						
Plagioclase	40	40	0.1-0.4		thin euhedral laths	
Clinopyroxene	40	40	0.05-0.3		anhedral	
Opagues	10	10	0.01-0.1		anhedral	Some thin skeletal grains (ilmenite?).
SECONDARY MINERALOGY						
	PERCENT	REPLACING/ FILLING				COMMENTS
Clays	10	glass?				

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	0				

SITE 807

130-807C-79R-05 (Piece 3,28-30 cm)

OBSERVER: STO

WHERE SAMPLED: Part of massive flow

ROCK NAME: Aphyric basalt

GRAIN SIZE: Fine grained

TEXTURE: Intergranular

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	<1	<1	~1		euohedral laths	
GROUNDMASS						
Plagioclase	60	60	0.1-0.5		thin euohedral laths	
Opauques	5	5	0.02-0.1		anhedral-subhedral	
Clinopyroxene	20	20	0.02-0.2		anhedral-subhedral	
SECONDARY MINERALOGY						
Clays	PERCENT 15	REPLACING/ FILLING glass?				COMMENTS

VESICLES/CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	0				

130-807C-80R-01 (Piece 6,49-51 cm)

OBSERVER: STO

WHERE SAMPLED: Near flow top

ROCK NAME: Aphyric basalt

GRAIN SIZE: Fine grained

TEXTURE: Intergranular

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
Plagioclase	35	35	0.1-0.5		euohedral thin laths	
Clinopyroxene	30	30	0.02-0.1		anhedral	
Opauques	5	5	0.01-0.1		equant and skeletal	
SECONDARY MINERALOGY						
Clays	PERCENT 30	REPLACING/ FILLING glass			Green smectite.	COMMENTS

VESICLES/CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	0				

130-807C-81R-02 (Piece 4A,74-77 cm)

OBSERVER: STO

WHERE SAMPLED: Part of massive flow

ROCK NAME: Aphyric basalt

GRAIN SIZE: Fine grained

TEXTURE: Intergranular-subophitic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
? Clinopyroxene	<1	<1	up to 0.8		euohedral-subhedral	Altered to smectite.
GROUNDMASS						
Plagioclase	55	55	?		?	
Clinopyroxene	10	10	?		?	
Opauques	3	3	?		subhedral-anhedral	Equant and skeletal.
SECONDARY MINERALOGY						
Clays	PERCENT 32	REPLACING/ FILLING mainly glass			Green and yellow-green smectites.	COMMENTS

VESICLES/CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	0				

130-807C-83R-02 (Piece 1B, 28-30 cm)

OBSERVER: STO

WHERE SAMPLED: Part of massive flow

ROCK NAME: Aphyric basalt

GRAIN SIZE: Fine grained

TEXTURE: ??

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Olivine	<1	<1	~0.6		subhedral-euhedral	Completely replaced by olive-green mineral.
Plagioclase	<1	<1	~1		euhedral	
Clinopyroxene	<1	<1	~0.8		subhedral	
GROUNDMASS						
Plagioclase	40	40	0.1-1		thin euhedral laths	
Clinopyroxene	40	40	0.1-0.3		anhedral-subhedral	
Opagues	7	7	0.05-0.2		anhedral-subhedral	
SECONDARY MINERALOGY						
Clays	PERCENT 13	REPLACING/ FILLING glass?				COMMENTS
VESICLES/CAVITIES						
Vesicles	PERCENT 0	LOCATION	SIZE (mm)		FILLING	SHAPE