

SITE 1014 HOLE A CORE 1H

CORED 0.0 - 3.1 mbsf

GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (650-700 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1 1.5 5 10 -10 0 10			1 2 3		1 2 CC	Quaternary		W O	I S M	5Y 3/2	<p>FORAMINIFER CLAY</p> <p>Major Lithology: This core consists of dark olive gray (5Y 3/2) FORAMINIFER CLAY. Amorphous organic matter composes about 3% of the sediment.</p> <p>General Description: The sediments are homogeneous. Shell fragments and foraminifers are abundantly disseminated throughout the core.</p>

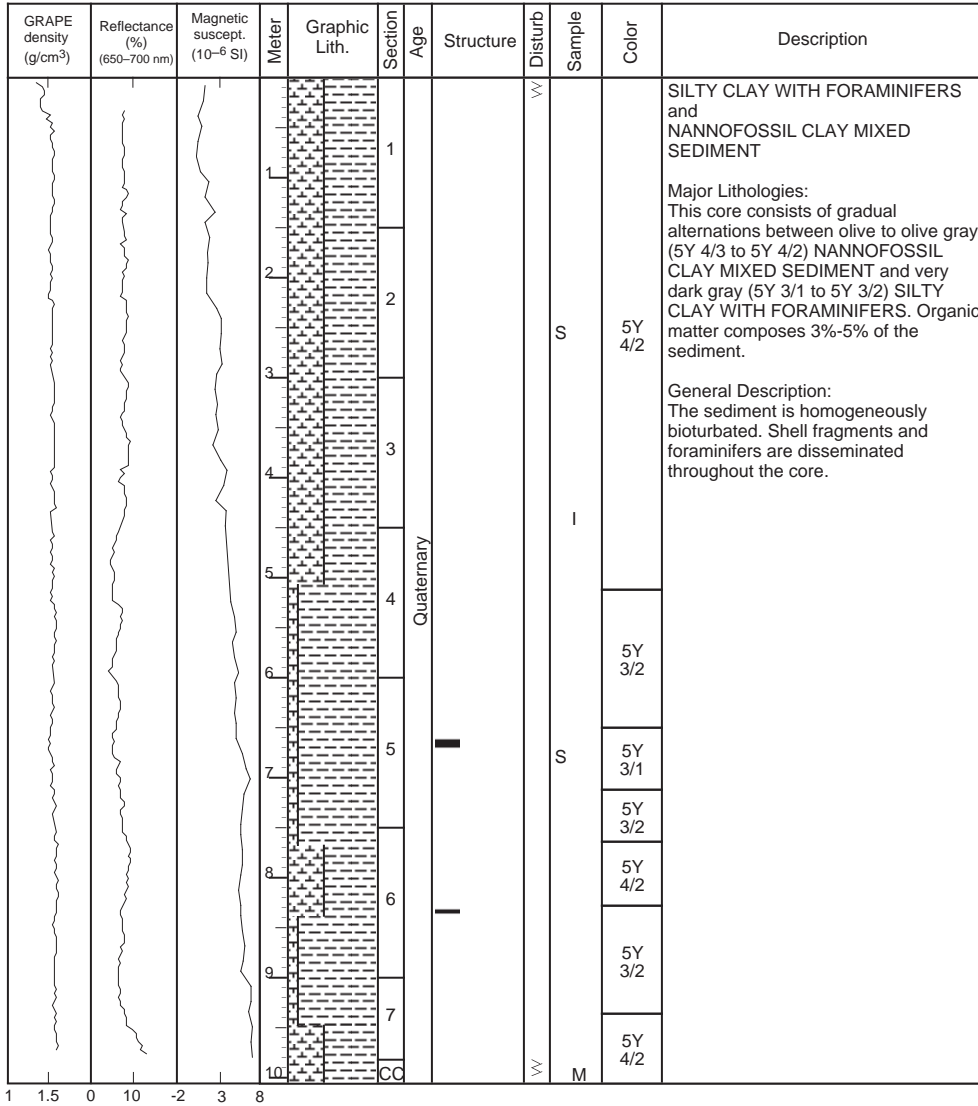


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SITE 1014 HOLE A CORE 2H CORED 3.1 - 12.6 mbsf



SITE 1014 HOLE A CORE 3H

CORED 12.6 - 22.1 mbsf

GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (650-700 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			1		1					5Y 3/1	<p>NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY and FORAMINIFER SILTY CLAY</p> <p>Major Lithologies: This core is composed of alternations between olive gray (5Y 5/2) NANNOFOSSIL OOZE WITH FORAMINIFER AND CLAY and very dark gray to very dark grayish brown (5Y 3/1 to 2.5Y 3/2) FORAMINIFER SILTY CLAY. Contacts between lithologies are gradational.</p> <p>General Description: The sediments are slightly bioturbated or homogeneous.</p>
			2		2					5Y 4/2	
			3		3				S	5Y 5/2	
			4		3					5Y 4/3	
			5		4	Quaternary			I	2.5Y 3/2	
			6		4				S	5Y 4/3	
			7		5					5Y 4/2	
			8		5				S	5Y 5/2	
			9		6					5Y 4/2	
					6					5Y 5/2	
					7					5Y 4/2	
					CC				M		

1 1.5 0 10 5 10 15

SITE 1014 HOLE A CORE 4H CORED 22.1 - 31.6 mbsf

GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (650-700 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			1		1					5Y 3/2	<p>FORAMINIFER NANNOFOSSIL OOZE, NANNOFOSSIL CLAY MIXED SEDIMENT WITH FORAMINIFERS and FORAMINIFER CLAY</p> <p>Major Lithologies: This core is composed of m-scale alternations of dark olive gray (5Y 3/2) FORAMINIFER CLAY, olive (5Y 4/3 to 5Y 4/4) NANNOFOSSIL CLAY MIXED SEDIMENT WITH FORAMINIFERS, and grayish olive (10Y 4/2) FORAMINIFER NANNOFOSSIL OOZE. The boundaries are gradational.</p> <p>General Description: This core is slightly to moderately bioturbated in its lower part whereas middle to upper parts are dominantly homogeneous.</p>
			2		5Y 4/2						
			3		5Y 3/2						
			4		5Y 4/3 To 5Y 4/2						
			5		5Y 3/2						
			6		5Y 4/2						
			7		5Y 4/3 To 5Y 4/4						
			8		10Y 4/2						
			9		5Y 4/2						
					CC						

1.4 1.6 0 10 0 10 20

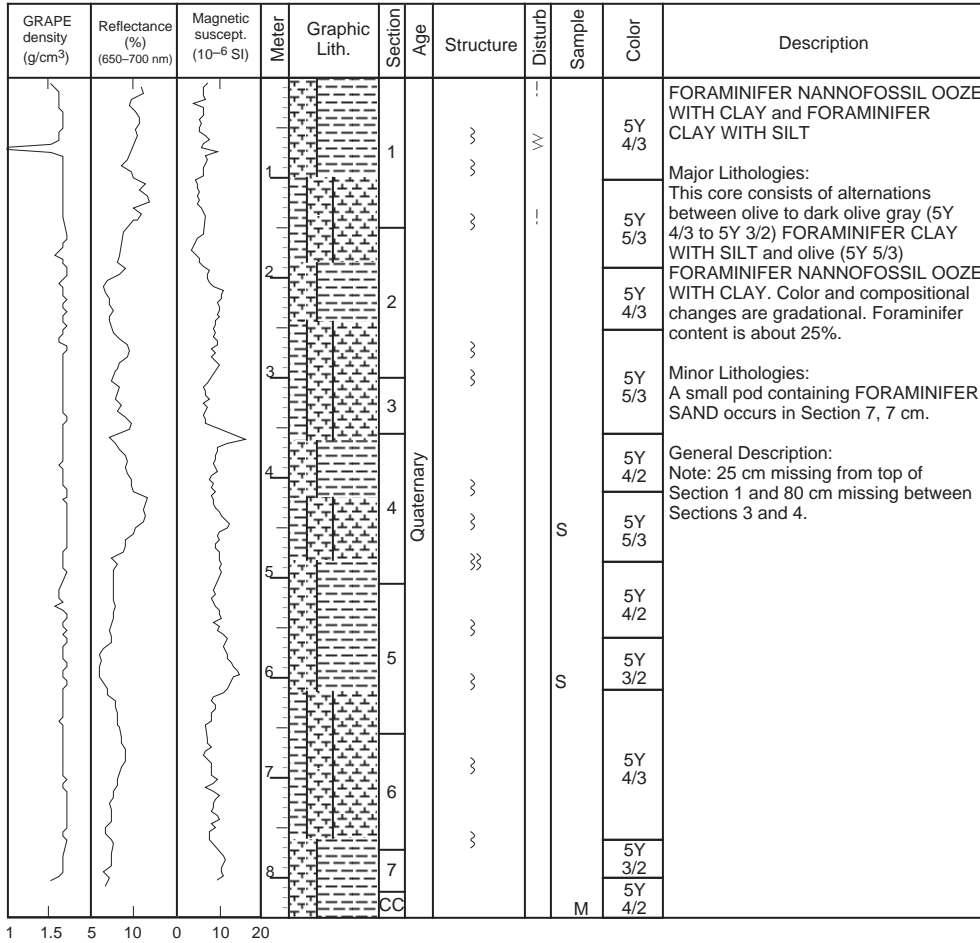
SITE 1014 HOLE A CORE 5H

CORED 31.6 - 41.1 mbsf

GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (650-700 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			1		1		}}		S	5Y 3/1	<p>CLAY WITH FORAMINIFERS and NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY</p> <p>Major Lithologies: This core consists of alternations between very dark gray (5Y 3/1) CLAY WITH FORAMINIFERS and olive (5Y 5/3 to 5Y 4/3) NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY. Color and compositional changes are gradational.</p> <p>General Description: The sediment is moderately bioturbated</p>
			2		2	}}		S	5Y 4/3 To 5Y 5/3		
			3		3	}}					
			4		3	}}					
			5		4	}}		I	5Y 4/3		
			6		4	}}		S	5Y 5/3		
			7		5	}}			5Y 4/3		
			8		5	}}			5Y 5/3		
			9		6	}}			5Y 4/3		
					6	}}			5Y 3/1		
					7	}}				5Y 4/3	
					CC		}}		M		

1 1.5 0 10 0 10 20

SITE 1014 HOLE A CORE 6H CORED 41.1 - 50.6 mbsf



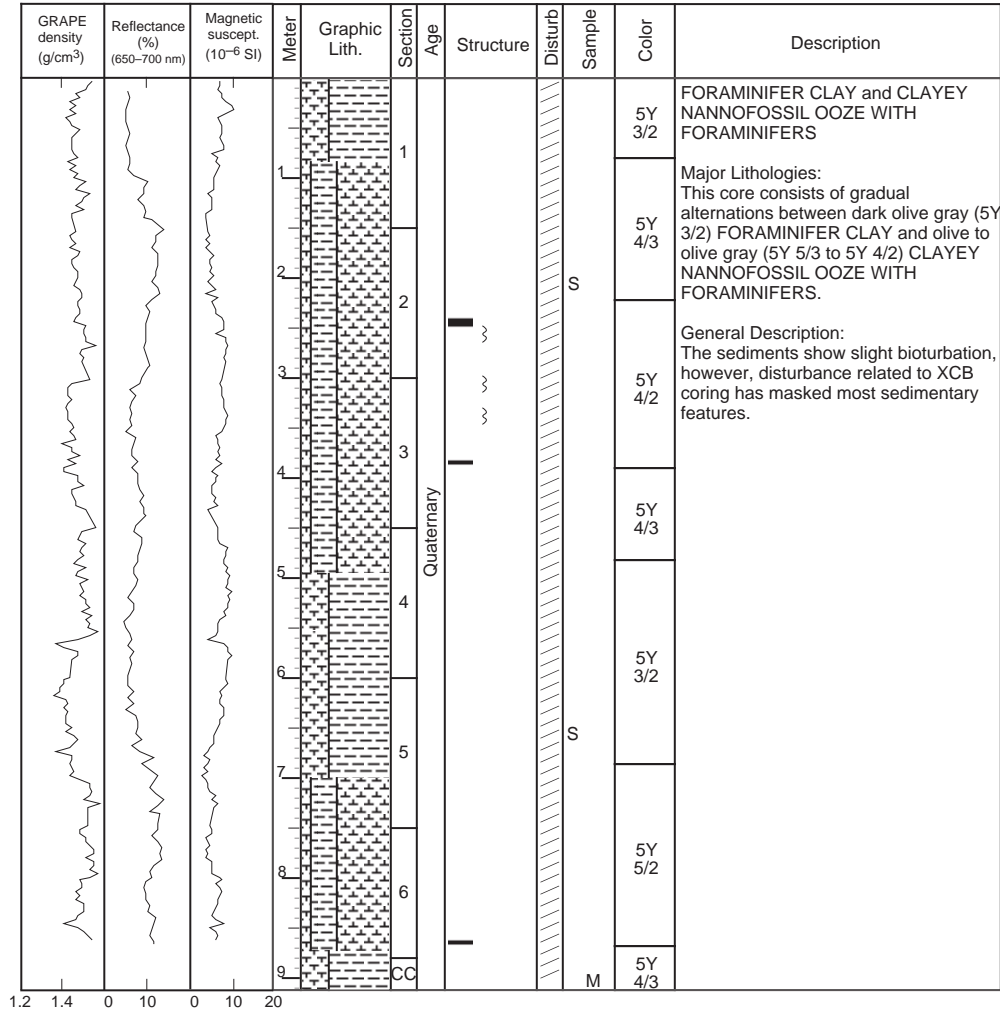
SITE 1014 HOLE A CORE 7X

CORED 50.6 - 54.3 mbsf

GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (650-700 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
				1	Quaternary		-	-	S	5Y 4/2	<p>NANNOFOSSIL CLAY WITH SILT and FORAMINIFER NANNOFOSSIL OOZE WITH CLAY</p> <p>Major Lithologies: This core consists of olive gray to dark grayish brown (5Y 4/2 to 2.5Y 4/2) NANNOFOSSIL CLAY WITH SILT and olive gray (5Y 5/2) FORAMINIFER NANNOFOSSIL OOZE WITH CLAY. Foraminifers are abundant and disseminated throughout the core comprising about 10% in the clay-rich intervals and 25% in the nannofossil ooze.</p> <p>Minor Lithologies: Several small, isolated pods of FORAMINIFER OOZE occur in Section 1, 7-14 cm, 86 cm, and Section 2, 16 cm.</p> <p>General Description: The sediments show slight bioturbation, however disturbance related to XCB coring has masked most sedimentary features.</p>
				I					2.5Y 4/2		
				S					5Y 4/3		
				M	5Y 5/2						
				CC							

SITE 1014 HOLE A CORE 8X

CORED 54.3 - 64.0 mbsf



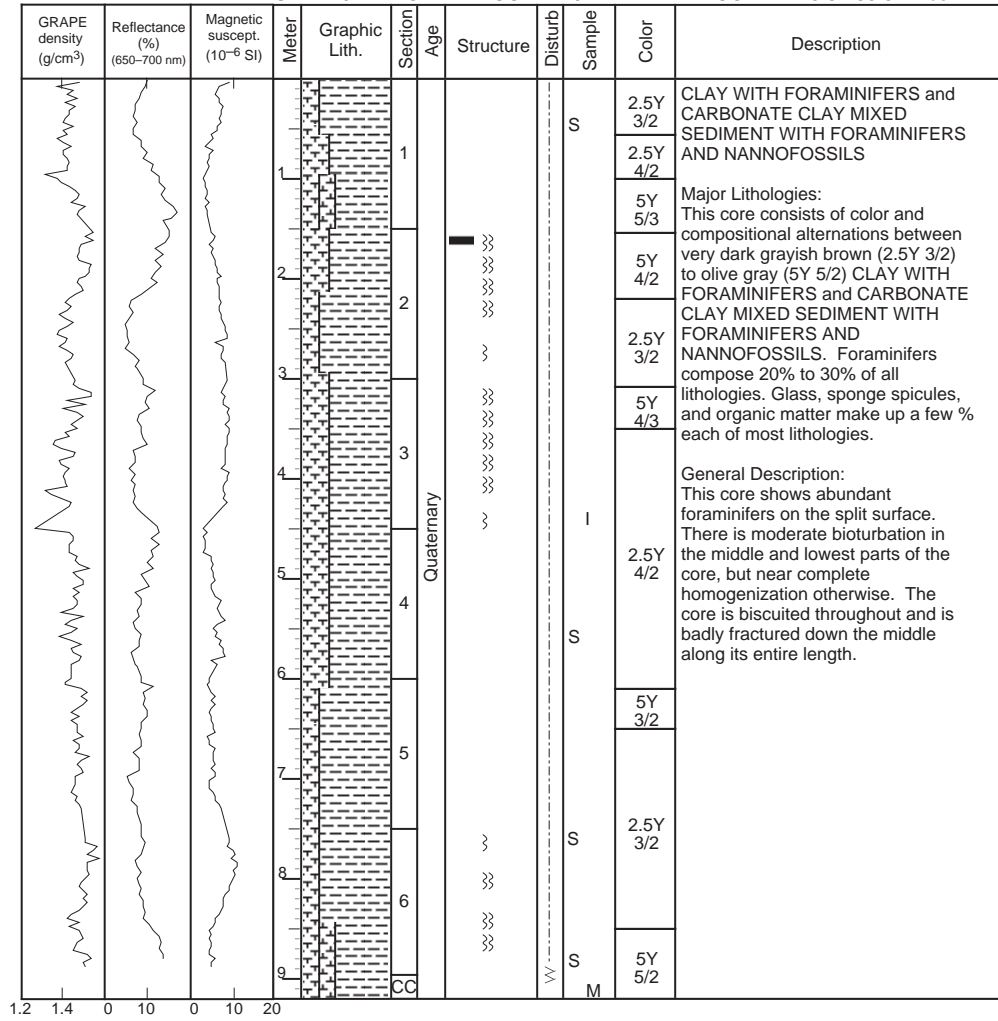


SITE 1014 HOLE A CORE 9X

CORED 64.0 - 73.8 mbsf

GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (650-700 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			1		1	Quaternary			S	5Y 4/1	<p>CLAY WITH FORAMINIFERS AND NANNOFOSSILS</p> <p>Major Lithology: This core consists of (5Y 3/1) to (5Y 4/3) CLAY WITH FORAMINIFERS AND NANNOFOSSILS. The abundance of foraminifers vary from 10% to 15%, nannofossils from 0% to 10%, and organic matter and sponge spicules from 0% to 2%.</p> <p>General Description: This core is mostly homogeneous within color bands, only rarely displaying distinct burrows. The core is strongly biscuited and cracked down the center.</p>
			2		2				5Y 4/2		
			3		3				5Y 4/3		
			4		3				2.5Y 4/2		
			5		4				5Y 4/3		
			6		4				5Y 4/3		
			7		5				5Y 3/2		
8	6	5Y 3/2									
9	7	5Y 3/1									
0	1	0	10								

SITE 1014 HOLE A CORE 10X CORED 73.8 - 83.5 mbsf

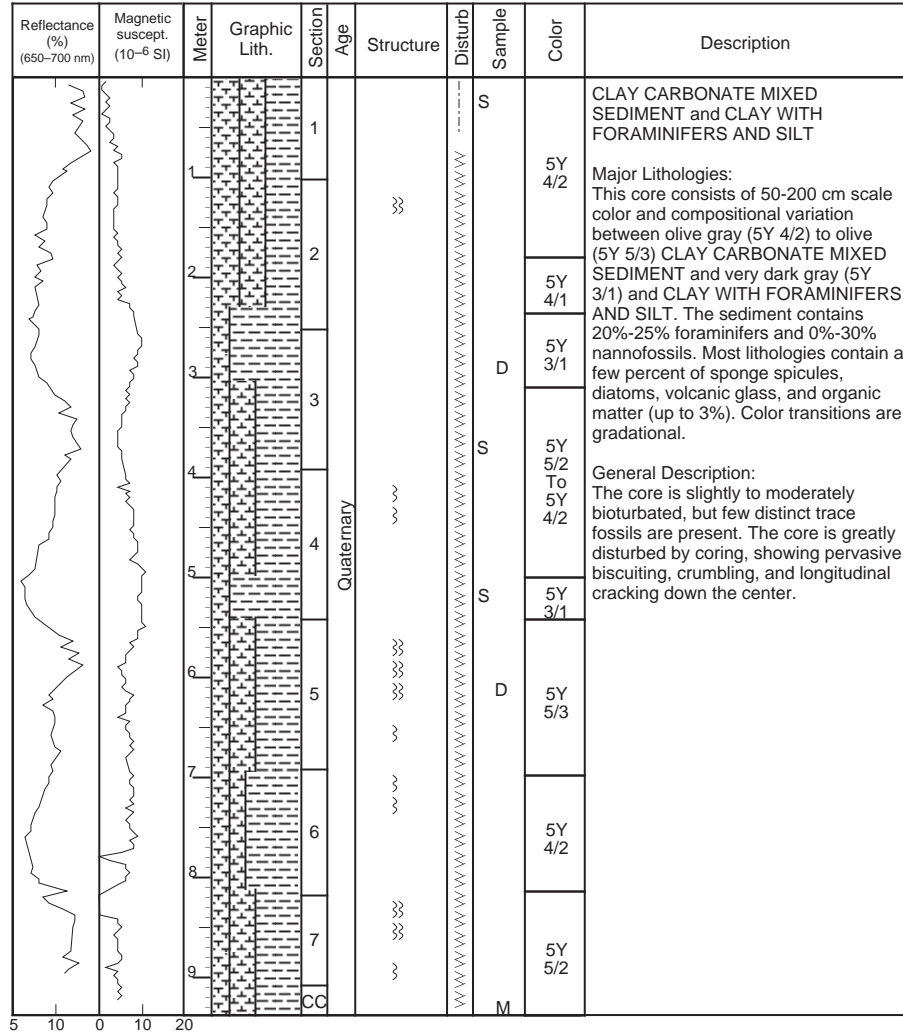


SITE 1014 HOLE A CORE 11X

CORED 83.5 - 93.1 mbsf

GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (650-700 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1.2 1.4 5 10 0 10 20			0 1 2 3 4 5 6 7 8 9 10		1					5Y 5/2	<p>CLAY WITH FORAMINIFERS and CARBONATE CLAY MIXED SEDIMENT WITH NANNOS AND FORAMINIFERS</p> <p>Major Lithologies: This core consists of 50-200 cm alternations between very dark grayish brown (2.5Y 3/2) CLAY WITH FORAMINIFERS and olive gray (5Y 4/2 to 5Y 5/2) CARBONATE CLAY MIXED SEDIMENT WITH NANNOFOSSILS AND FORAMINIFERS. All lithologies contain small amounts (1%-2%) of volcanic glass, sponge spicules, and organic matter. Color bands too small to be shown in the Color column are depicted in the Structure column.</p> <p>General Description: This core is moderately to severely disturbed by pervasive biscuiting and by a large crack running lengthwise down its center.</p>
					2			S	2.5Y 3/2		
					3				2.5Y 4/2		
					4		~		5Y 4/2		
					5		~	Quaternary	5Y 5/2		
					6				2.5Y 3/2		
					7				5Y 3/1		
					8		~		2.5Y 4/2		
					9				5Y 5/2		
					10				5Y 4/1		
				CC						M	

SITE 1014 HOLE A CORE 12X CORED 93.1 - 102.8 mbsf

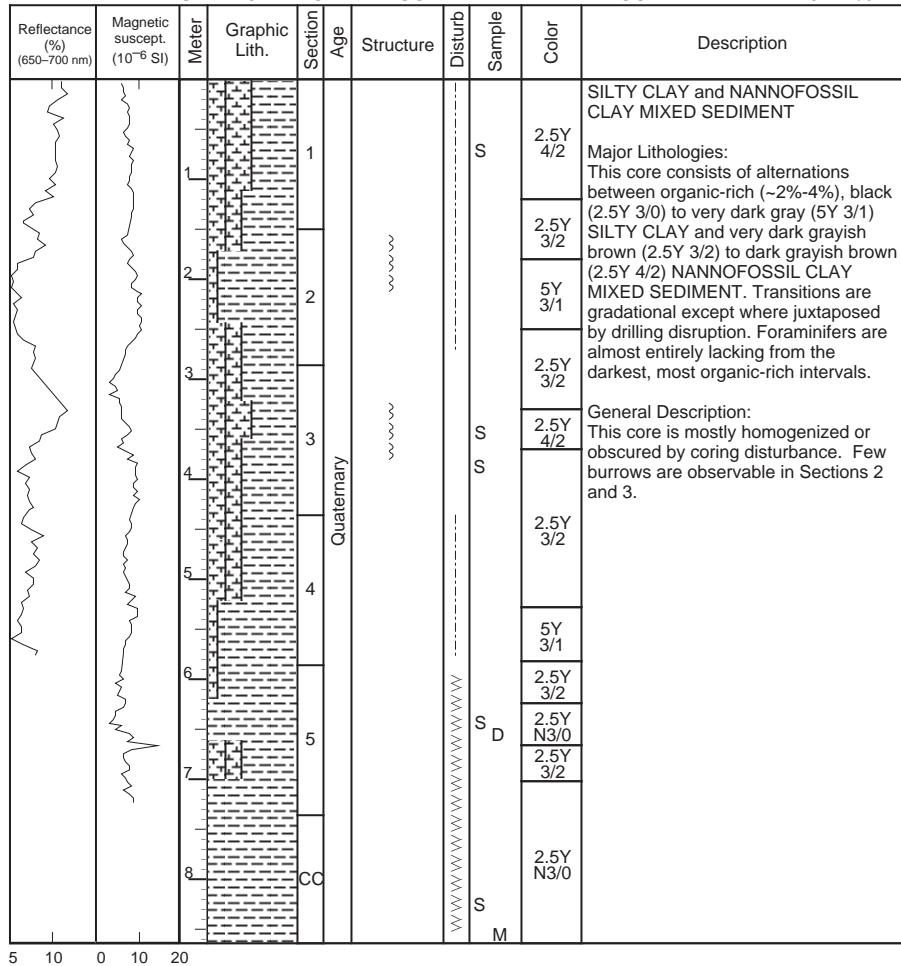


SITE 1014 HOLE A CORE 13X

CORED 102.8 - 112.4 mbsf

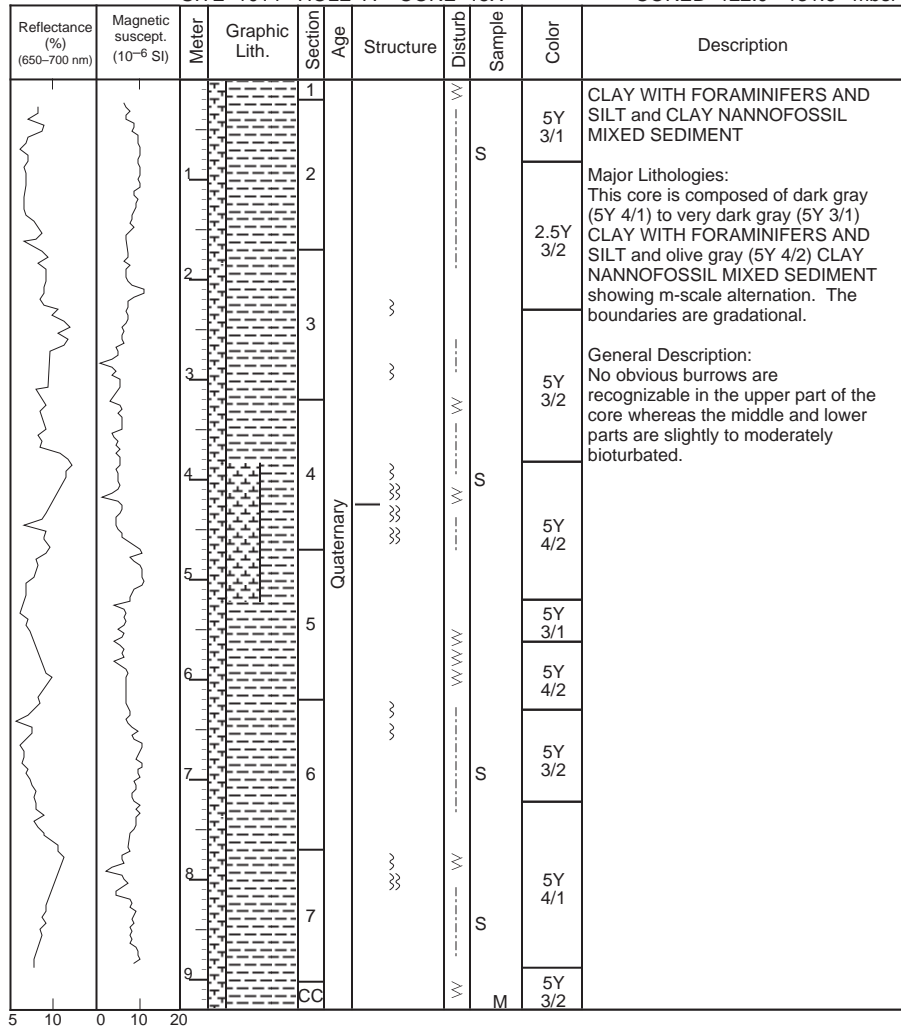
Reflectance (%) (650-700 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description		
		1		1					5Y 4/1	CLAY WITH FORAMINIFERS, CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS and CLAY CARBONATE MIXED SEDIMENT		
											2.5Y N3/0	
		2		2						2.5Y 4/2	Major Lithologies: This core consists of irregular alternations between organic-rich (>3%) very dark gray (2.5Y N3/0 to 5Y 3/1) CLAY WITH FORAMINIFERS, dark gray (5Y 4/1) to olive gray (5Y 4/2) CLAY CARBONATE MIXED SEDIMENT, and light gray (5Y 7/2) CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS.  General Description: Three black, 3-4 mm thick laminations occur in the lower part of Section 3. The core shows moderate bioturbation in some sections, however, sedimentary structures are obscured by pervasive biscuiting and a continuous fracture down the center of the split half-core.	
		3		3						2.5Y N3/0		
		4		4						5Y 4/2		
		5		5							5Y 7/2	
		6		6							5Y 4/1	
		7		7							5Y 3/1	
		8		8							2.5Y 4/2	
											5Y 5/3	
				CC					10Y 4/1			

SITE 1014 HOLE A CORE 14X CORED 112.4 - 122.0 mbsf



SITE 1014 HOLE A CORE 15X

CORED 122.0 - 131.6 mbsf

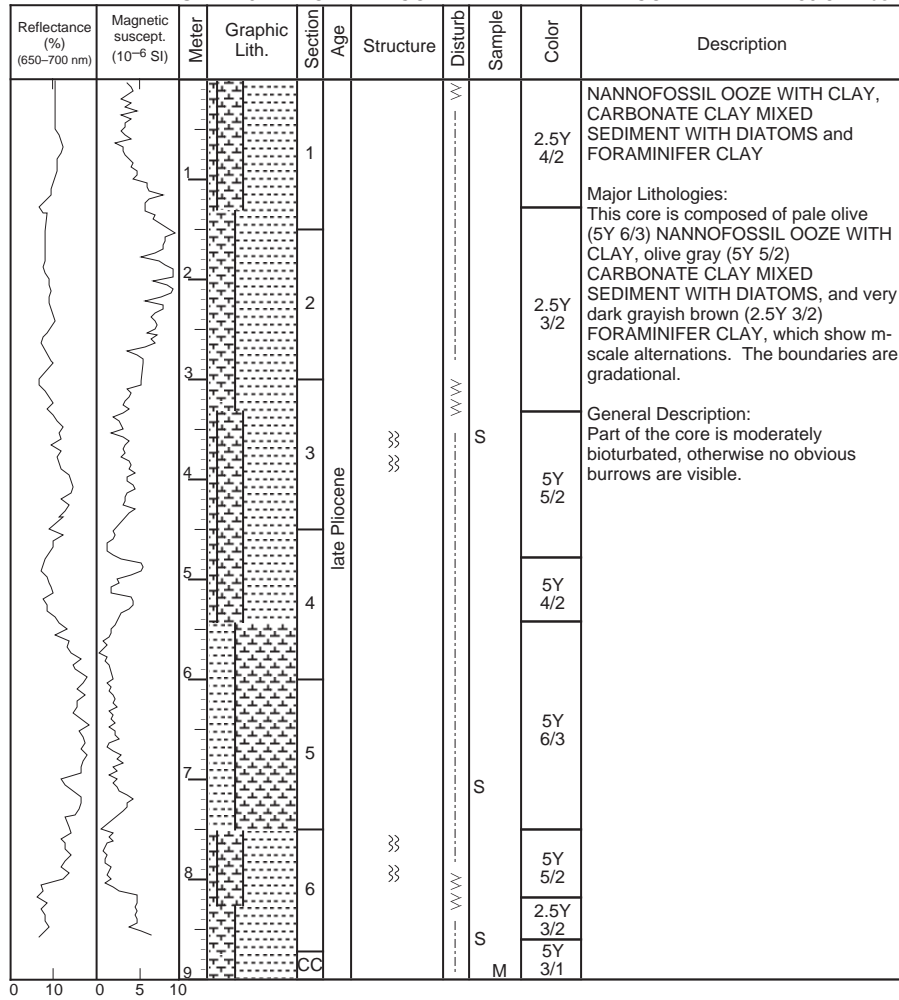




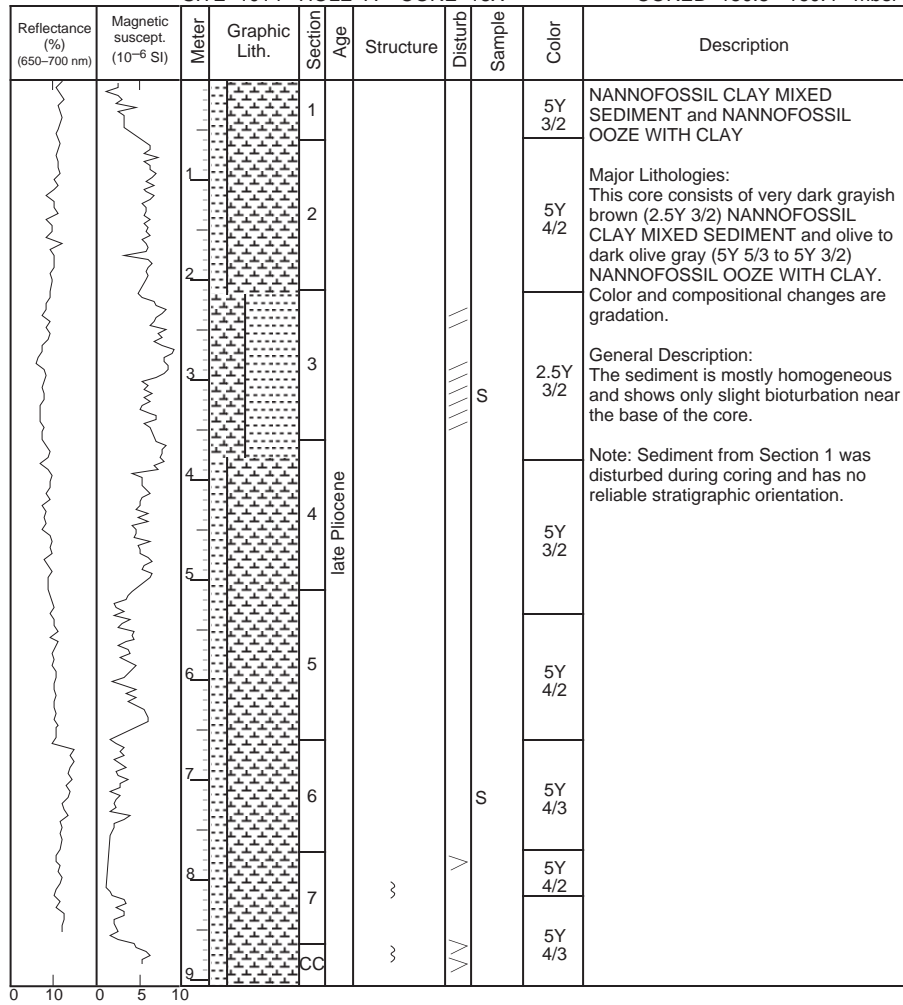


SITE 1014 HOLE A CORE 17X

CORED 141.2 - 150.8 mbsf

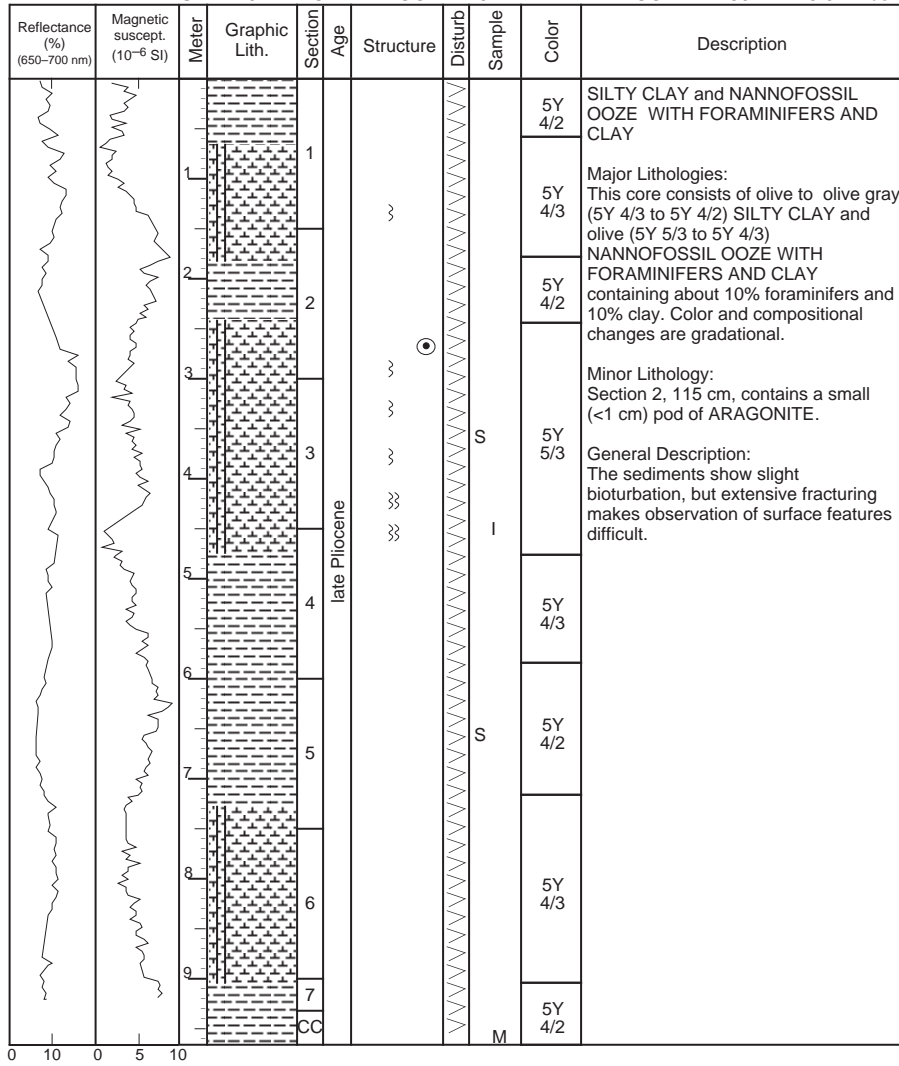


SITE 1014 HOLE A CORE 18X CORED 150.8 - 160.4 mbsf

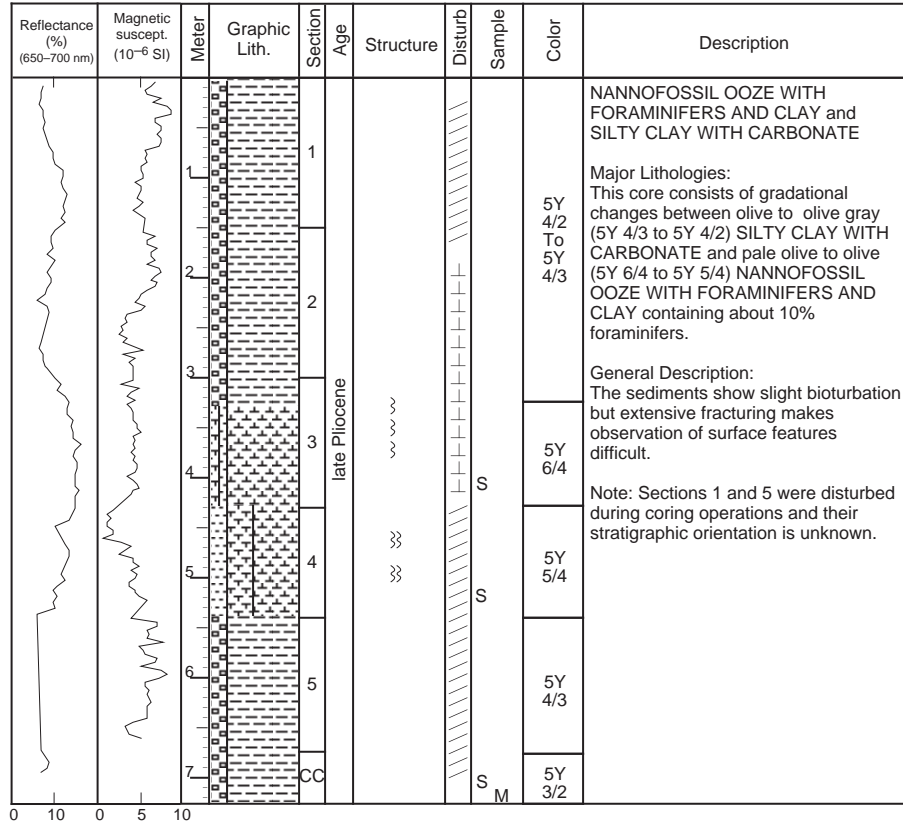


SITE 1014 HOLE A CORE 19X

CORED 160.4 - 170.0 mbsf

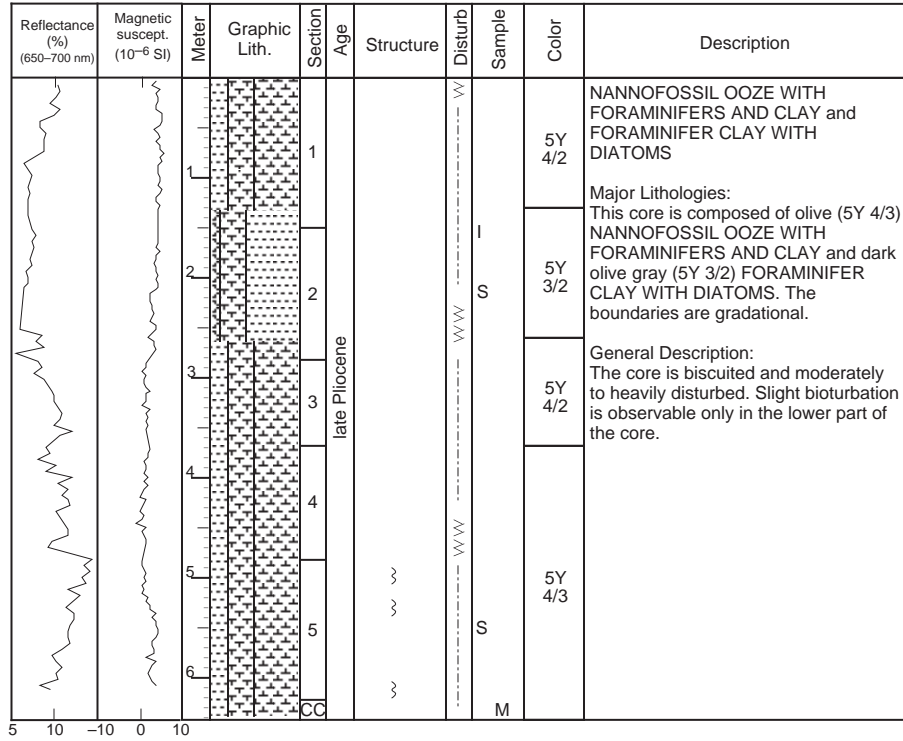


SITE 1014 HOLE A CORE 20X CORED 170.0 - 179.6 mbsf



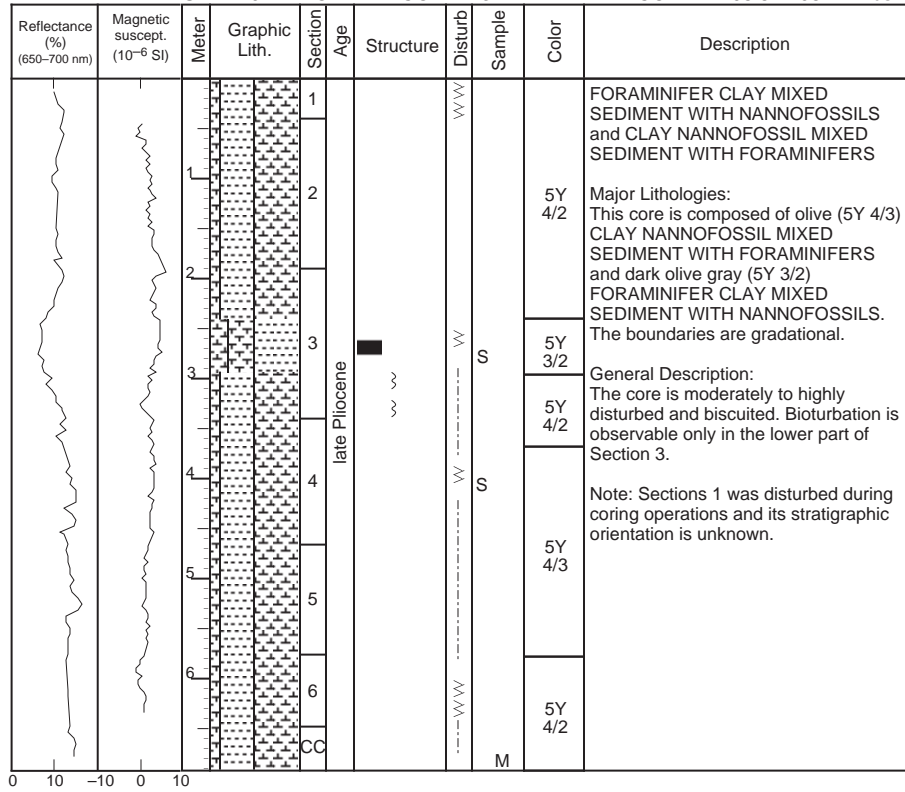


SITE 1014 HOLE A CORE 22X CORED 189.2 - 198.8 mbsf



SITE 1014 HOLE A CORE 23X

CORED 198.8 - 208.4 mbsf



SITE 1014 HOLE A CORE 24X CORED 208.4 - 218.0 mbsf

Reflectance (%) (650-700 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description	
		1	[Cross-hatched pattern]	1					5Y 3/2	CARBONATE CLAY MIXED SEDIMENT and NANNOFOSSIL OOZE WITH CLAY AND FORAMINIFERS	
		2	[Dotted pattern]	2					5Y 4/2	Major Lithologies: This core consists of olive to olive gray (5Y 4/3 to 5Y 4/2) CARBONATE CLAY MIXED SEDIMENT and olive (5Y 4/3) NANNOFOSSIL OOZE WITH CLAY AND FORAMINIFERS. Color changes are gradual.	
		3	[Dotted pattern]	3					5Y 4/3	General Description: The sediments show slight bioturbation but extensive biscuiting makes observation of surface features difficult.	
		4	[Dotted pattern]	4	late Pliocene				S		Note: Sections 1 was disturbed during coring operations and its stratigraphy is unknown. Gas voids occur in Section 6, 50-70 cm, and 142-150 cm.
		5	[Dotted pattern]	5							
		6	[Dotted pattern]	6							
		6	[Dotted pattern]	6	Void					5Y 4/2	
		7	[Dotted pattern]	7	Void						
		7	[Dotted pattern]	7							
		8	[Dotted pattern]	8							
				CC				M	5Y 3/2		



SITE 1014 HOLE A CORE 25X

CORED 218.0 - 223.5 mbsf

Reflectance (%) (650-700 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		1		}}		S D     S D     I     M	2.5Y 3/2	NANNOFOSSIL CLAY MIXED SEDIMENT WITH FORAMINIFERS and CARBONATE CLAY WITH DIATOMS  Major Lithologies: This core consists of gradational changes between olive (5Y 4/4) NANNOFOSSIL CLAY MIXED SEDIMENT WITH FORAMINIFERS and very dark grayish brown (2.5Y 3/2) CARBONATE CLAY WITH DIATOMS containing about 10% diatoms.  General Description: The sediment is moderately bioturbated.  Note: Section 1 was disturbed during coring operations and its stratigraphic orientation is unknown.
		2		2	}}	5Y 4/4				
		3		3	}}	2.5Y 3/2				
		4		4	}}	5Y 4/4				
		5		5	}}					
				CC						

0 10 0 5 10

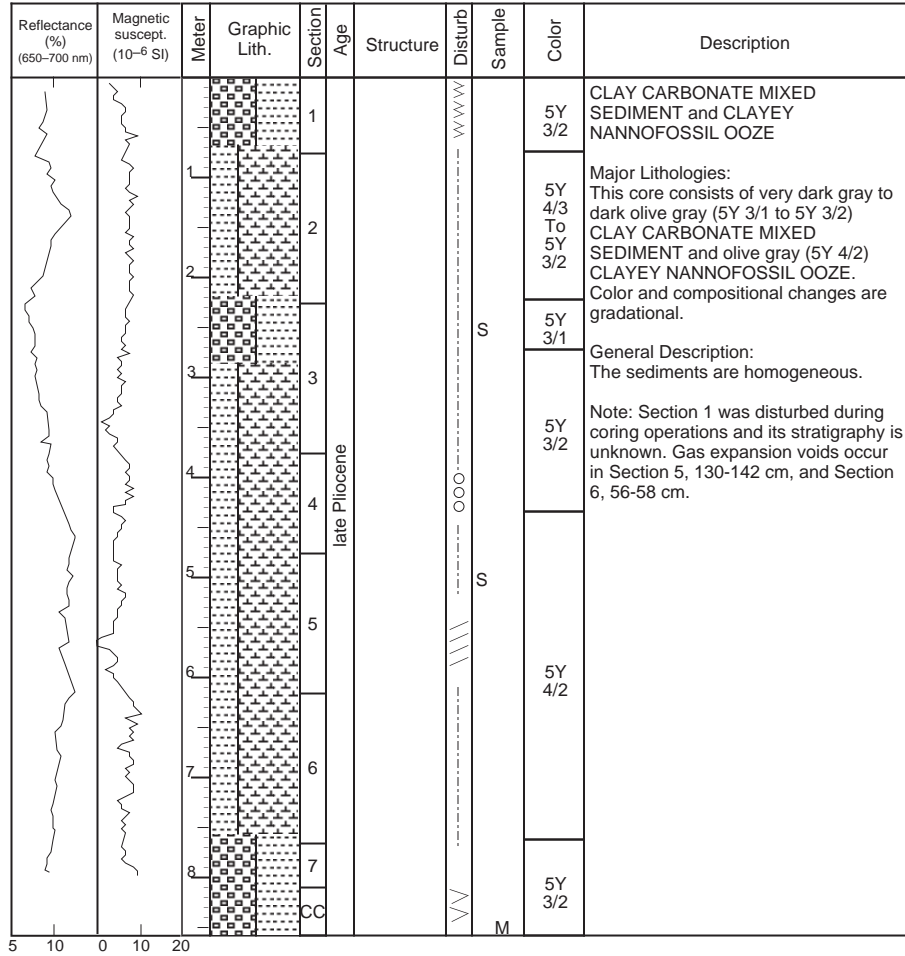


SITE 1014 HOLE A CORE 26X CORED 223.5 - 227.7 mbsf

Reflectance (%) (650-700 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		1		}}	W	D	2.5Y N3/0	NANNOFOSSIL OOZE WITH CLAY and NANNOFOSSIL CLAY MIXED SEDIMENT
		2		2	}}	5Y 5/3		Major Lithologies: This core consists of gradational changes between pale olive to olive (5Y 6/3 to 5Y 5/3) NANNOFOSSIL OOZE WITH CLAY and olive gray to dark olive gray (5Y 4/2 to 5Y 3/2) NANNOFOSSIL CLAY MIXED SEDIMENT.		
		3		3	}}	5Y 4/2 To 5Y 3/2		Minor Lithology: Section 1, 0-38 cm, contains very dark gray (2.5Y N3/0) DOLOMITE.		
		4		3	}}	5Y 5/3		General Description: The sediments are moderately bioturbated.		
		5		4	}}	5Y 6/3				
6	CC						M	5Y 5/3		

SITE 1014 HOLE A CORE 27X

CORED 227.7 - 237.3 mbsf



SITE 1014 HOLE A CORE 28X CORED 237.3 - 246.9 mbsf

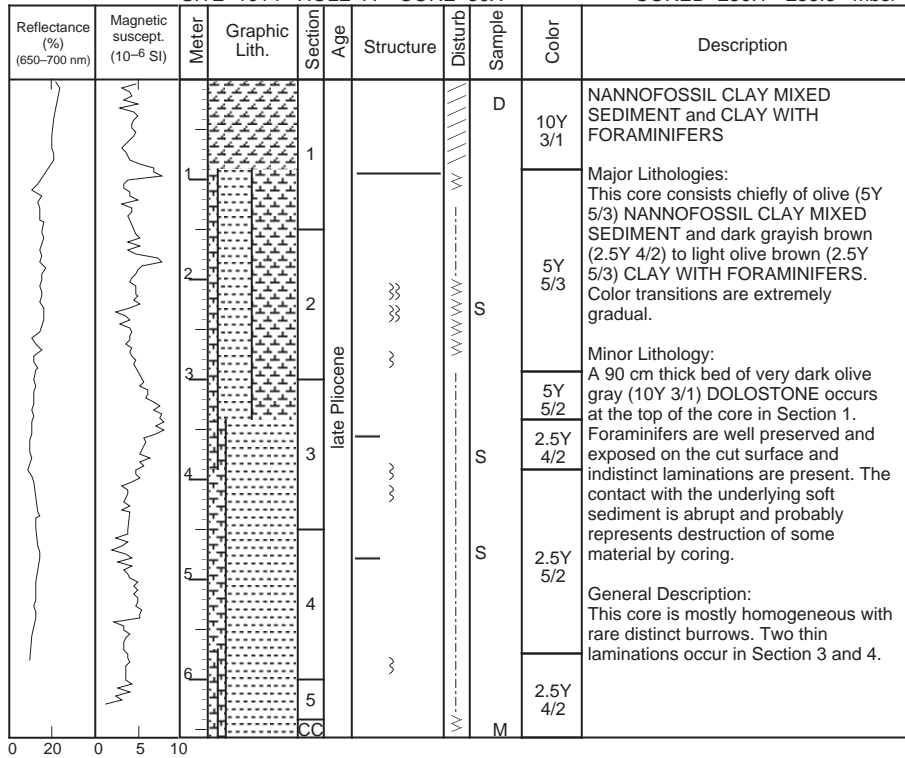
Reflectance (%) (650-700 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		1	late Pliocene			S	5Y 4/3	<p>NANNOFOSSIL OOZE WITH CLAY and CLAYEY NANNOFOSSIL OOZE WITH CARBONATE</p> <p>Major Lithologies: This core consists of very dark gray (5Y 3/1) CLAYEY NANNOFOSSIL OOZE WITH CARBONATE and olive (5Y 5/3 to 5Y 3/2) NANNOFOSSIL OOZE WITH CLAY. Color and compositional changes are gradational.</p> <p>General Description: The sediments are slightly bioturbated.</p> <p>Note: Section 4 was disturbed during coring operations and its stratigraphic orientation is unknown.</p>
		2		5Y 5/3						
		3		5Y 5/3						
		4		5Y 5/3						
		5		5Y 4/3						

SITE 1014 HOLE A CORE 29X CORED 246.9 - 250.1 mbsf

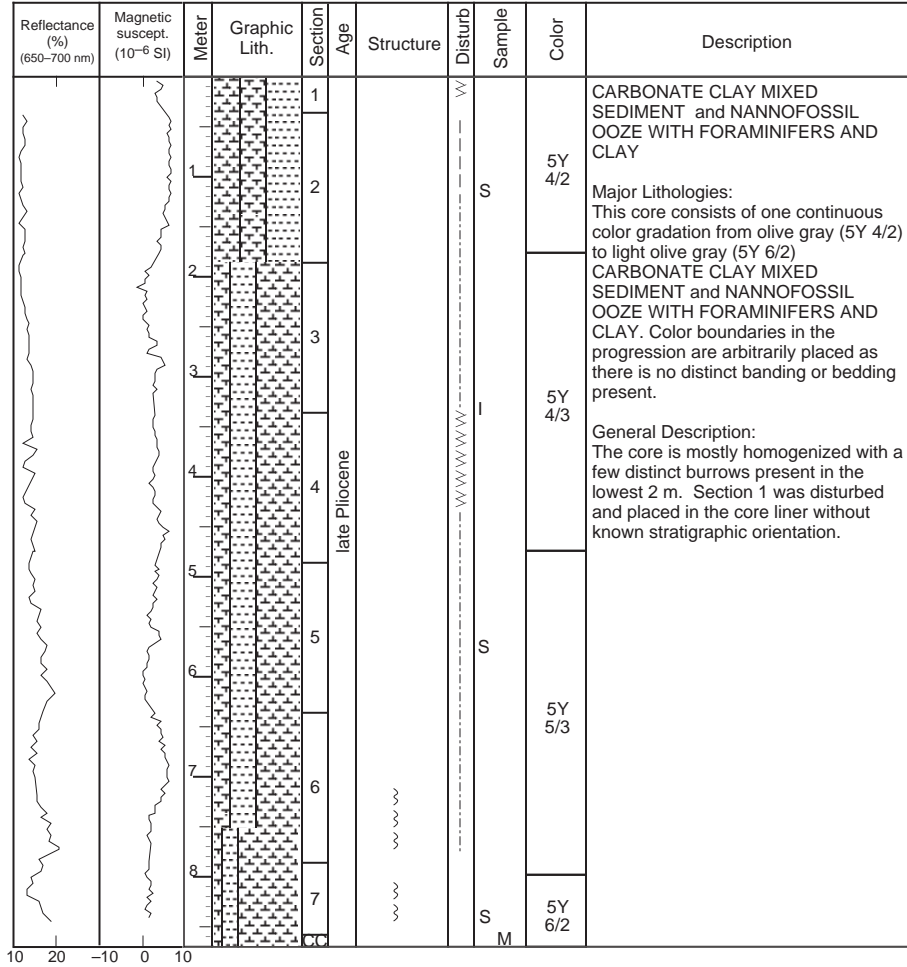
Reflectance (%) (650-700 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		1	late Pliocene			S	5Y 5/3 To 5Y 6/3	<p>NANNOFOSSIL OOZE WITH CLAY</p> <p>Major Lithology: This core consists of slightly bioturbated, olive to pale olive (5Y 5/3 to 5Y 6/3) NANNOFOSSIL OOZE WITH CLAY. Foraminifers, sponge spicules, and diatoms are also present in small amounts (&lt;5%).</p> <p>General Description: The core is mostly homogenized with few distinct burrows. It is pervasively biscuitied by XCB coring.</p>
		2								
		3								

SITE 1014 HOLE A CORE 30X

CORED 250.1 - 256.6 mbsf



SITE 1014 HOLE A CORE 31X CORED 256.6 - 266.2 mbsf

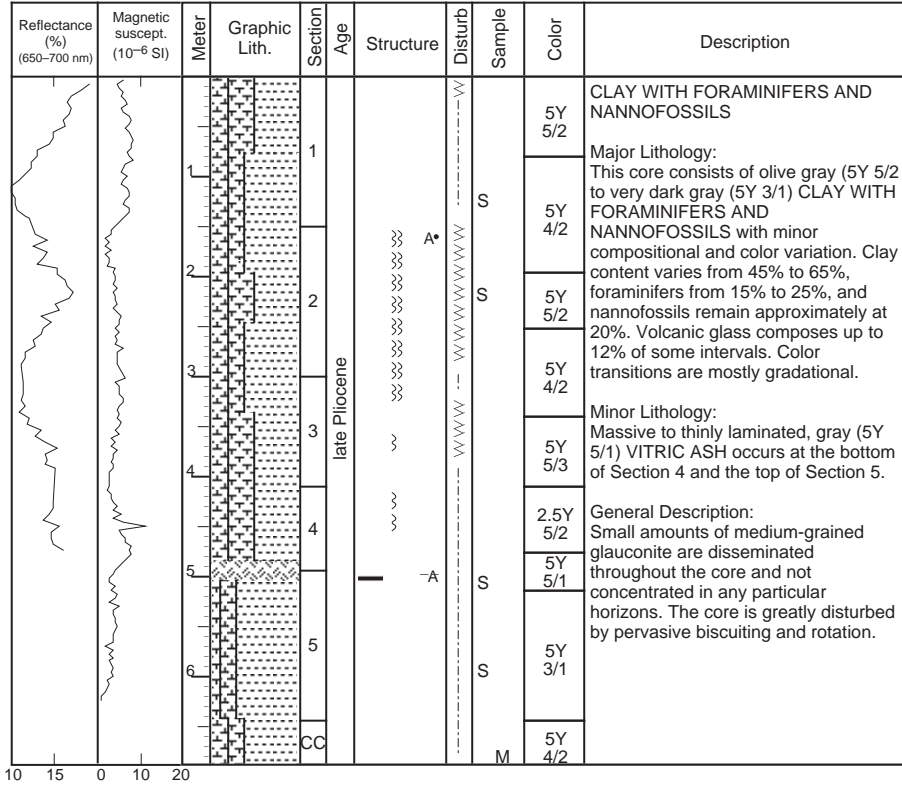


SITE 1014 HOLE A CORE 32X

CORED 266.2 - 275.8 mbsf

Reflectance (%) (650-700 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		1	late Pliocene			S	5Y 4/2	<p>CLAY WITH NANNOFOSSILS AND FORAMINIFERS and CLAY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS</p> <p>Major Lithologies: This core consists of greater than meter-scale, gradational and subtle alternations between dark grayish brown (2.5Y 4/2) to olive (5Y 4/3) CLAY WITH NANNOFOSSILS AND FORAMINIFERS and CLAY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS. Diatoms, sponge spicules, and volcanic glass each make up a few percent of these lithologies.</p> <p>General Description: Bioturbation is slight to moderate where preserved. Core disturbance by biscuiting is extensive and pervasive. The original sedimentary fabric is lost.</p>
		2		2.5Y 4/2						
		3		5Y 4/2						
		4		2.5Y 4/2						
		5		5Y 4/2						
		6		5Y 4/3						
10	15	0	10	20			M			

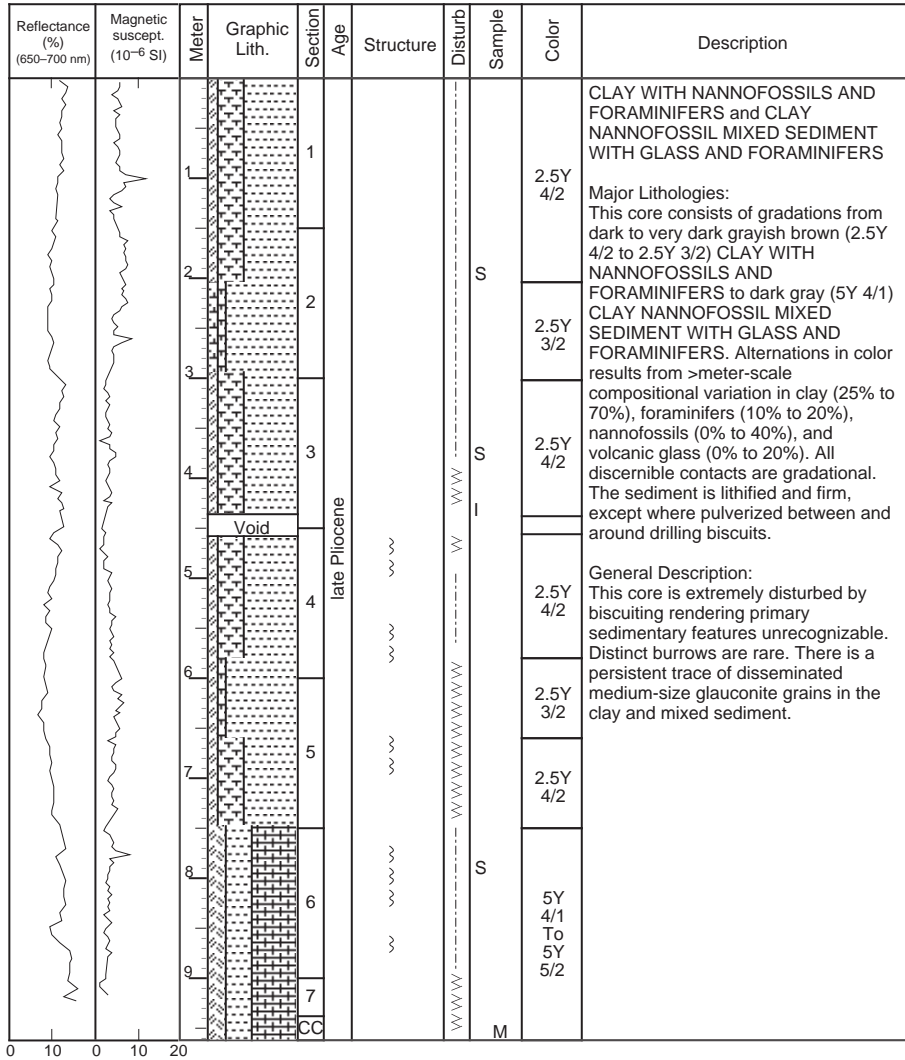
SITE 1014 HOLE A CORE 33X CORED 275.8 - 285.5 mbsf



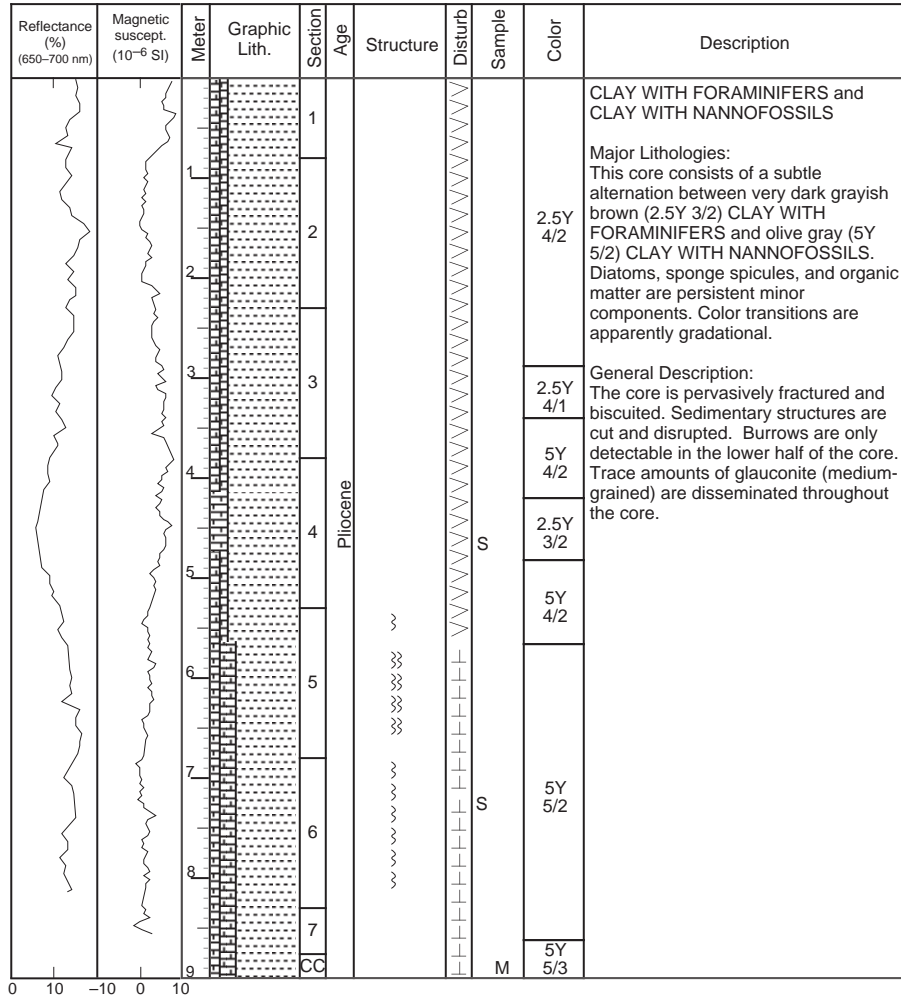


SITE 1014 HOLE A CORE 34X

CORED 285.5 - 295.1 mbsf

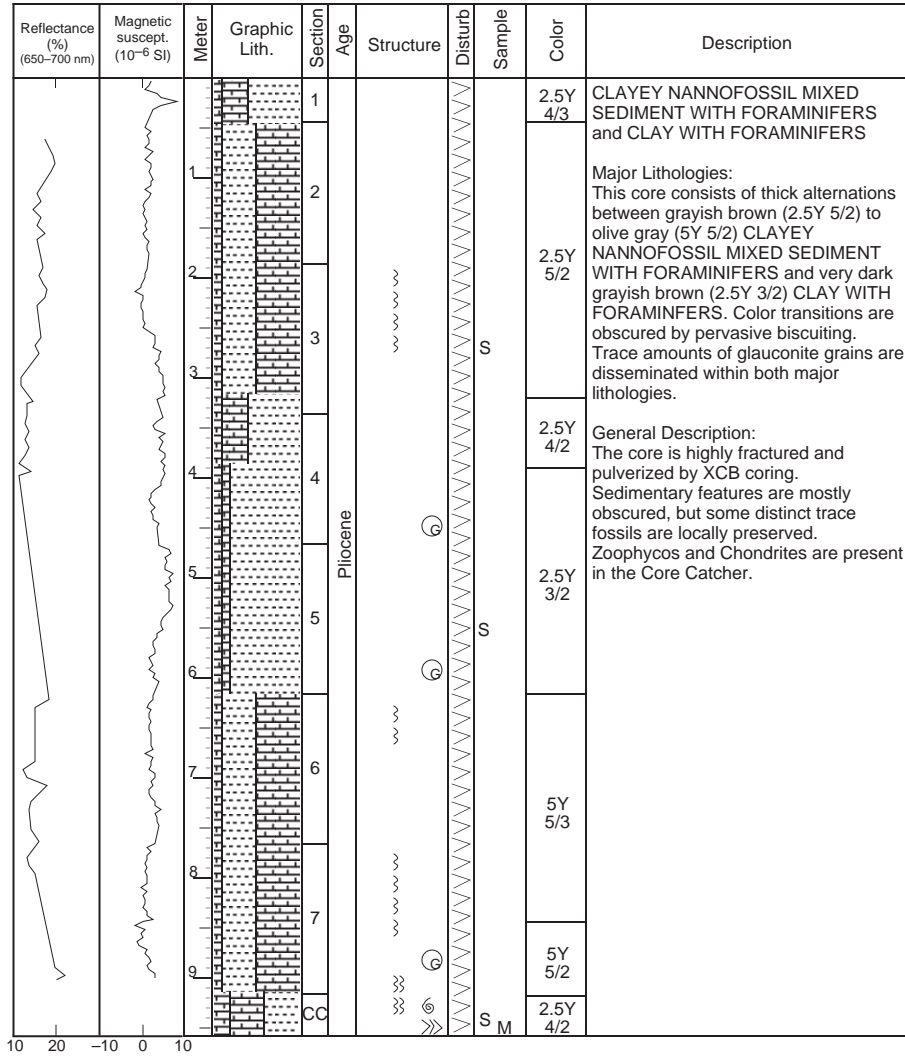


SITE 1014 HOLE A CORE 35X CORED 295.1 - 304.8 mbsf

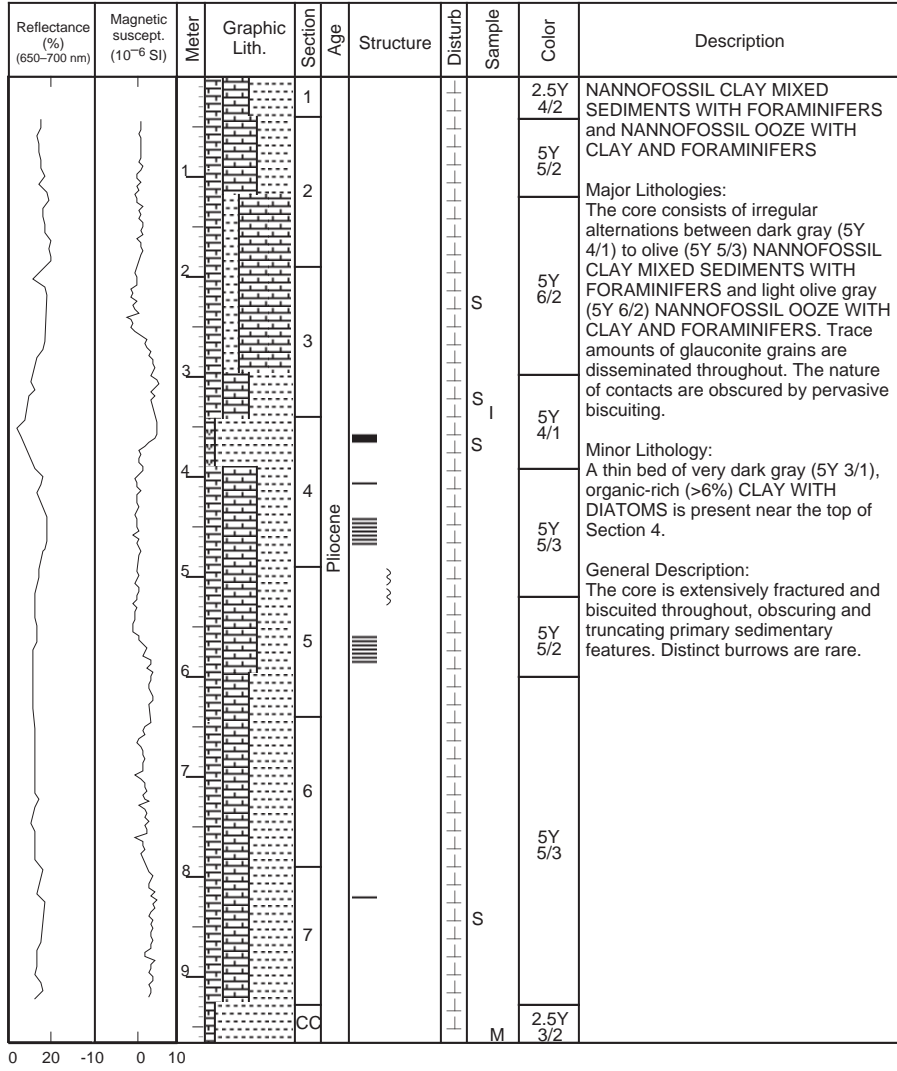


SITE 1014 HOLE A CORE 36X

CORED 304.8 - 314.4 mbsf

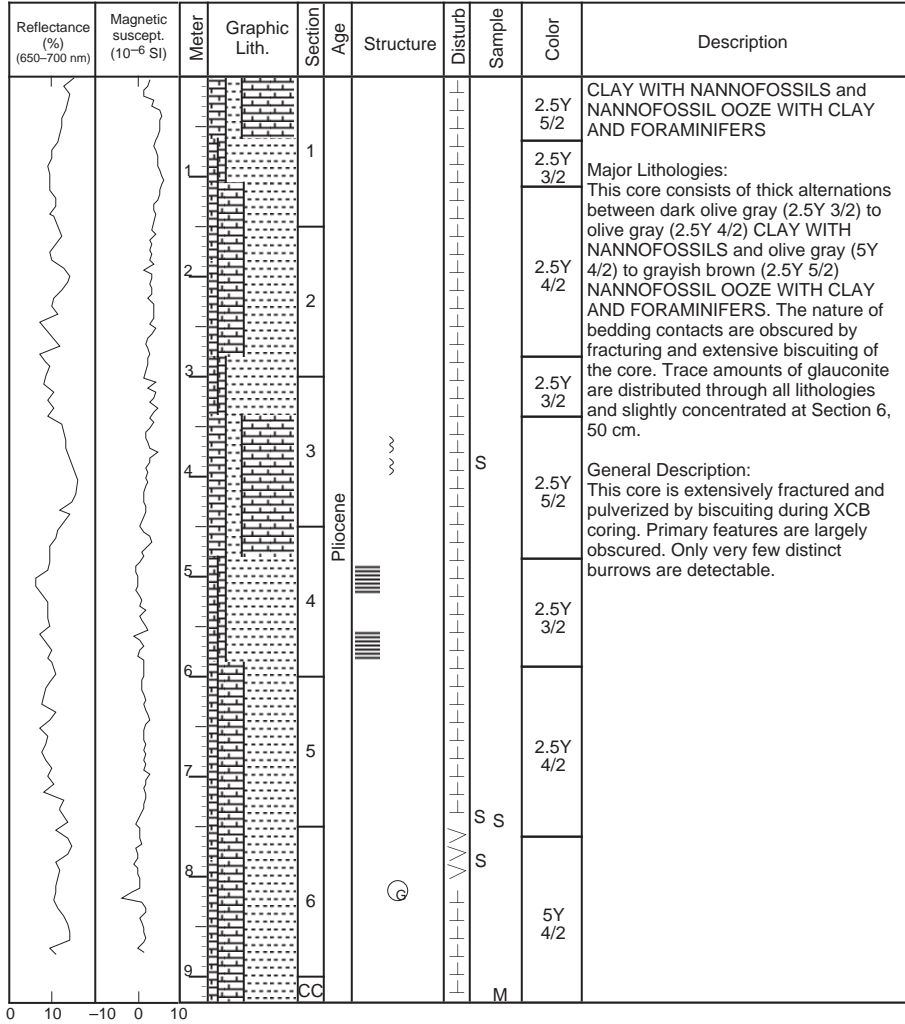


SITE 1014 HOLE A CORE 37X CORED 314.4 - 324.1 mbsf

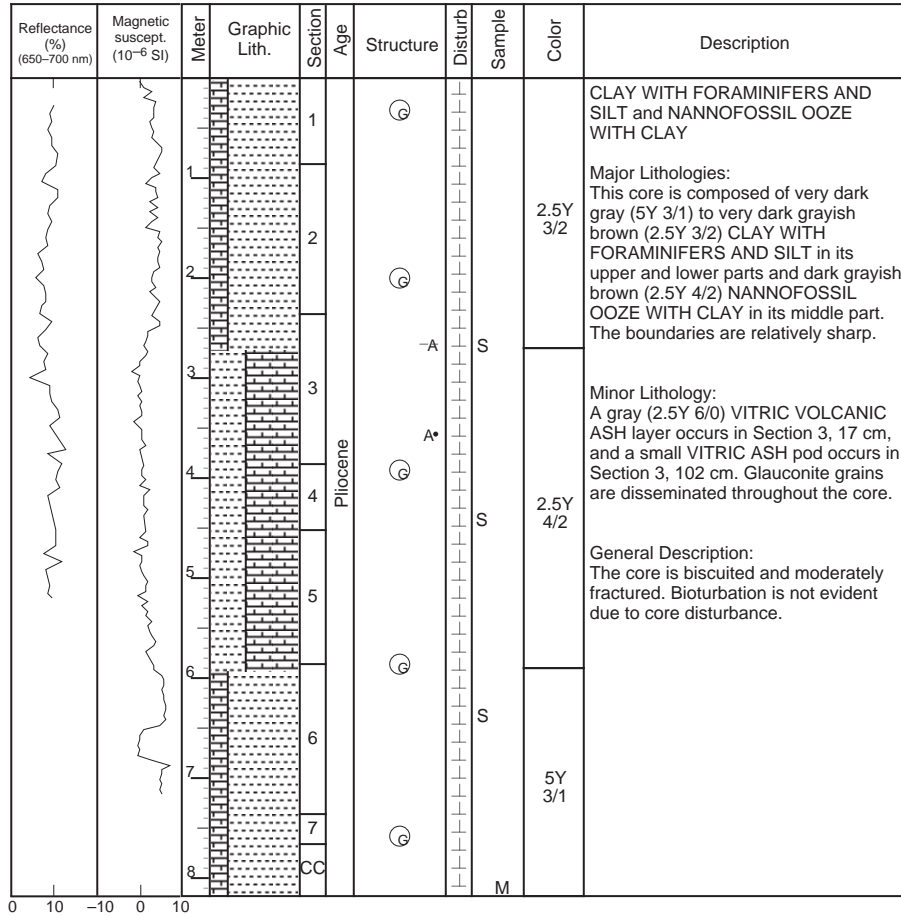


SITE 1014 HOLE A CORE 38X

CORED 324.1 - 333.7 mbsf

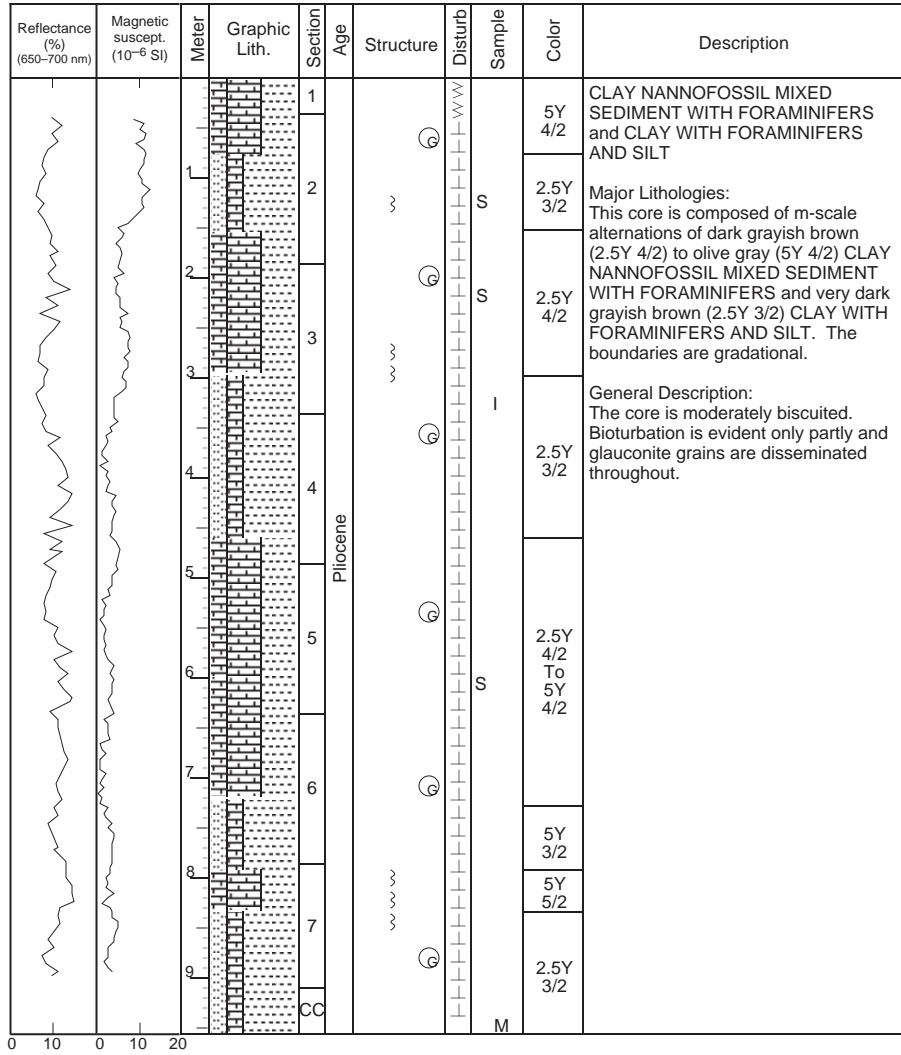


SITE 1014 HOLE A CORE 39X CORED 333.7 - 343.4 mbsf

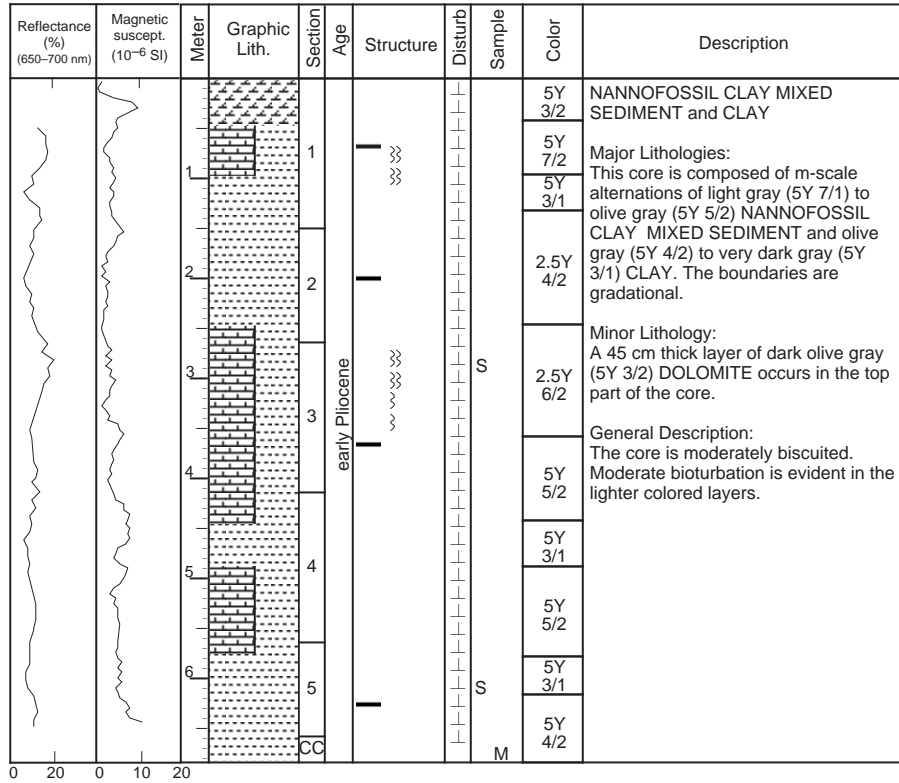


SITE 1014 HOLE A CORE 40X

CORED 343.4 - 353.0 mbsf



SITE 1014 HOLE A CORE 41X CORED 353.0 - 362.6 mbsf

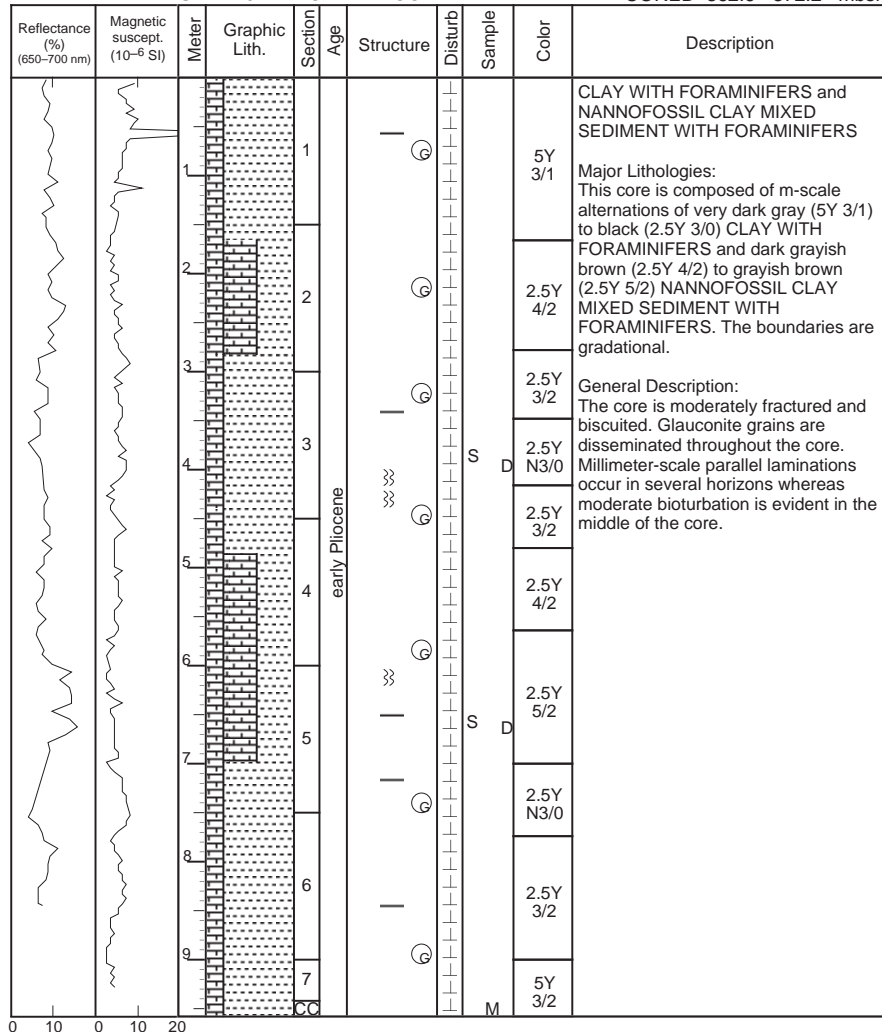




SITE 1014 HOLE A CORE 42X

CORED 362.6 - 372.2 mbsf

1014A-43X  
No photo available



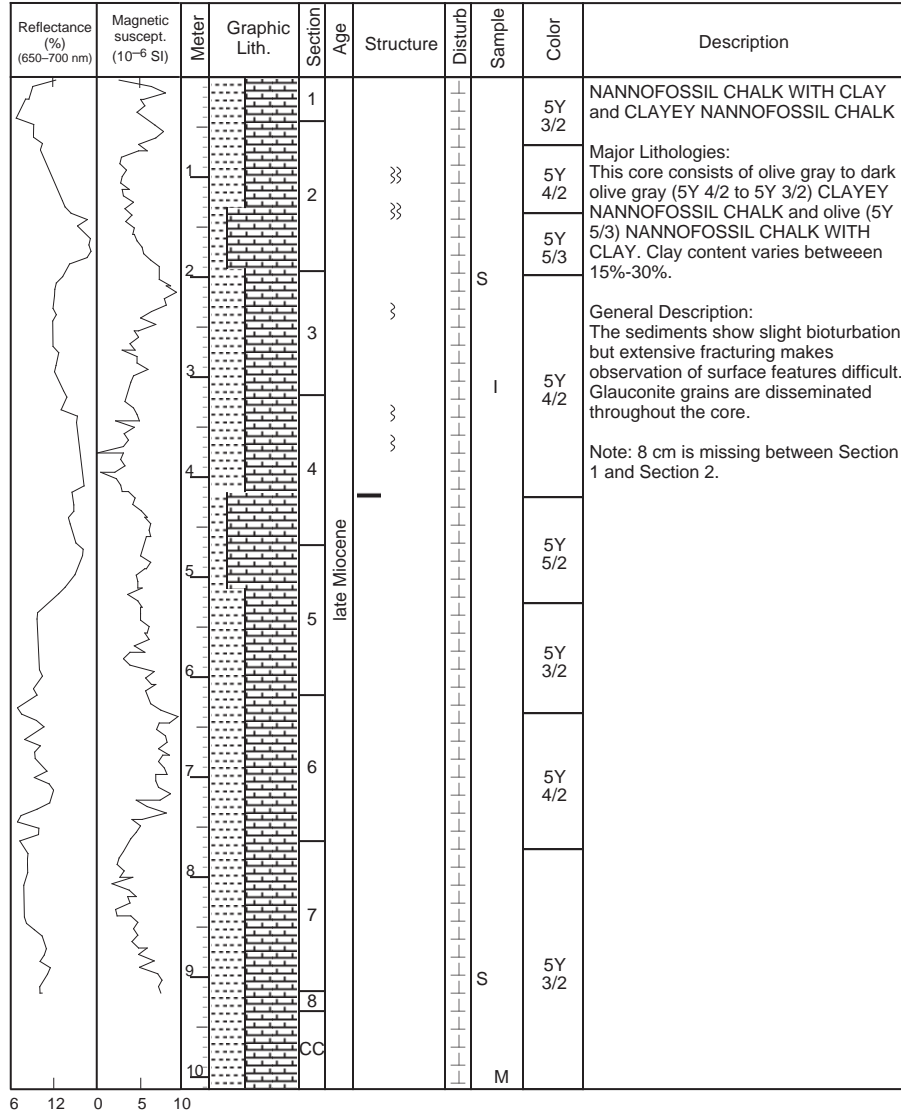
SITE 1014 HOLE A CORE 43X

CORED 372.2 - 381.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
								<p>DOLOMITE WITH FORAMINIFERS</p> <p>Major Lithology: This core only recovered approximately 5 cubic cm of fragmented, sucrosic, very dark grayish brown (2.5Y 3/2) DOLOMITE WITH FORAMINIFERS. Alizarin Red and HCl tests suggest that it is compositionally a protodolomite.</p> <p>General Description: No recovery except for loose cm to mm-scale fragments. No photo available.</p>

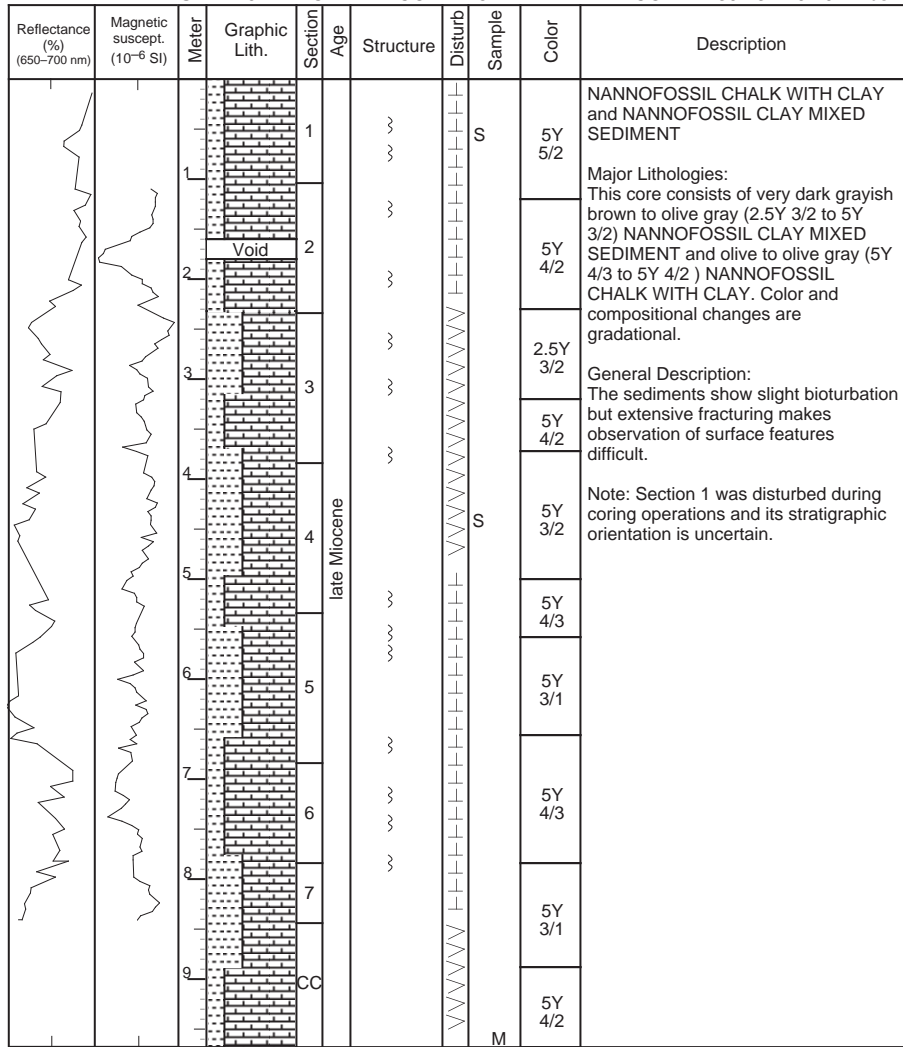
SITE 1014 HOLE A CORE 44X

CORED 381.8 - 391.3 mbsf



SITE 1014 HOLE A CORE 45X

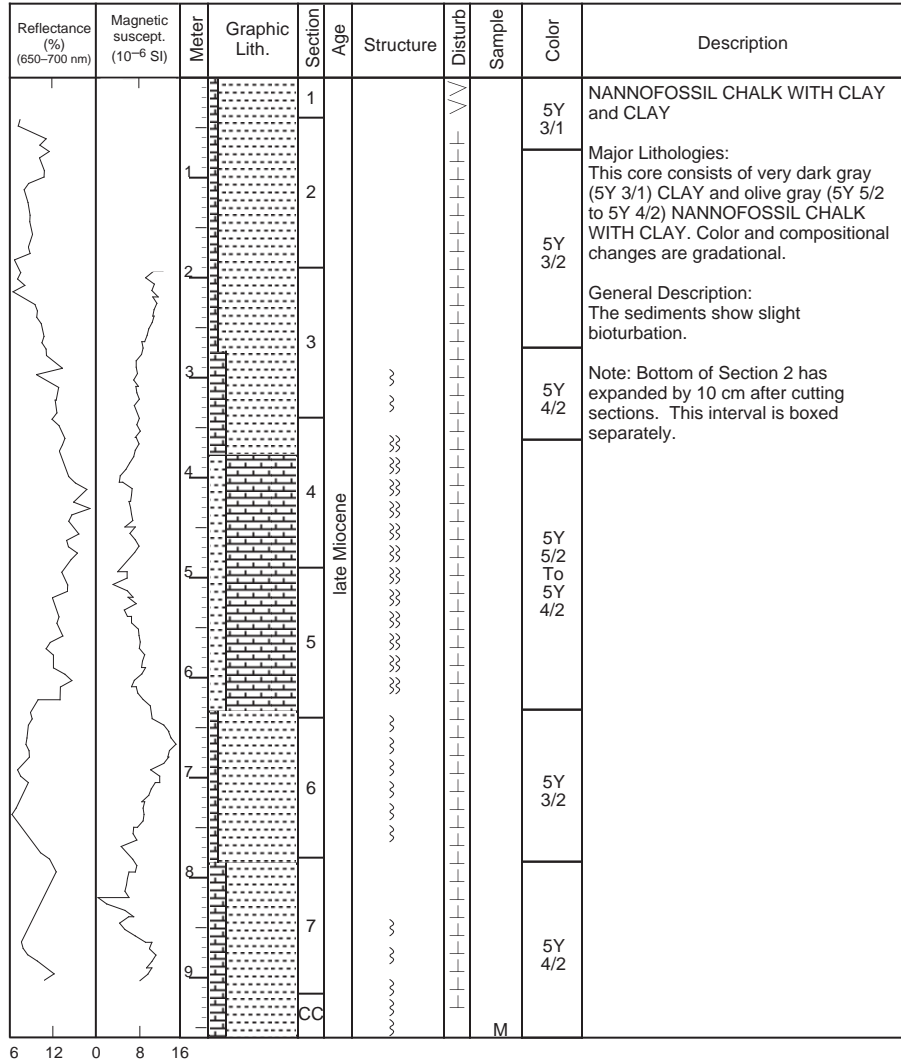
CORED 391.3 - 401.0 mbsf



4 9 0 7 14



SITE 1014 HOLE A CORE 46X CORED 401.0 - 410.5 mbsf



SITE 1014 HOLE A CORE 47X

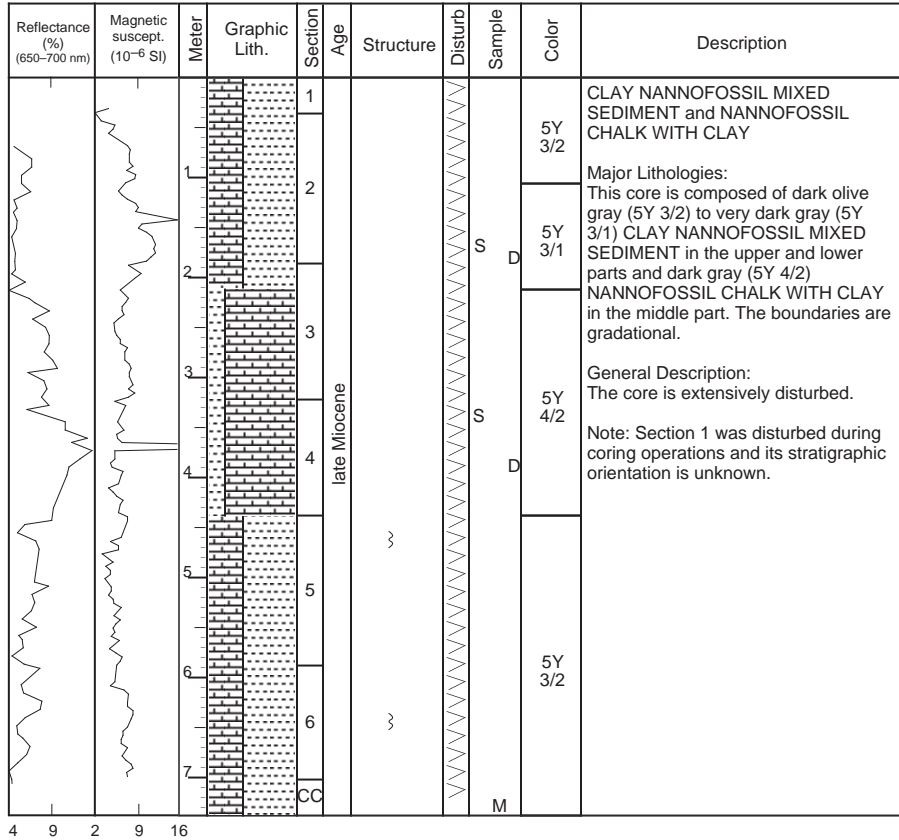
CORED 410.5 - 420.2 mbsf

Reflectance (%) (650-700 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		1					5Y 3/1	NANNOFOSSIL CLAY MIXED SEDIMENT and NANNOFOSSIL CHALK WITH CLAY
		1		2		>			5Y 3/2	Major Lithologies: This core consists of olive gray to very dark olive gray (5Y 4/2 to 5Y 3/1) NANNOFOSSIL CLAY MIXED SEDIMENT and olive to olive gray (5Y 4/3 to 5Y 4/2 ) NANNOFOSSIL CHALK WITH CLAY. Color and compositional changes are gradational.
		2		2		>>			5Y 5/2	
		2		3		>			5Y 4/2	General Description: The sediments show moderate bioturbation but extensive fracturing makes observation of surface features difficult.
		3		3		>>		I	5Y 3/2	
		4		4	late Miocene	>			5Y 4/2	Note: Section 1 was disturbed during coring operations and its stratigraphic orientation is uncertain.
		5		5		>			5Y 4/2	
		6		6		>		S	5Y 5/3	
		7		6		>>			5Y 4/2	
		8		7		>		S	5Y 4/2	
		9		CC				M	5Y 3/2	

4 12 2 7 12

SITE 1014 HOLE A CORE 48X

CORED 420.2 - 429.8 mbsf



SITE 1014 HOLE A CORE 49X

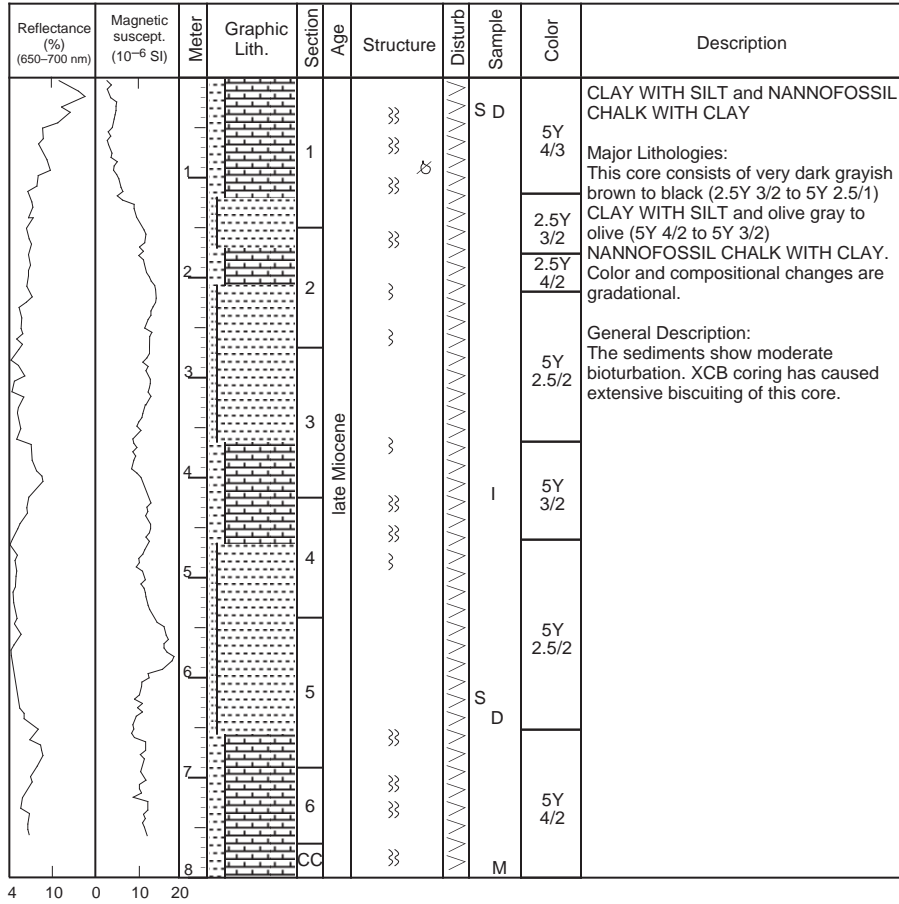
CORED 429.8 - 439.4 mbsf

Reflectance (%) (650-700 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
				1					5Y 3/2	CLAY and CLAYEY NANNOFOSSIL CHALK
		1		2			S		5Y 4/3	Major Lithologies: This core is composed of m-scale alternations of olive (5Y 5/3 to 4/3) CLAYEY NANNOFOSSIL CHALK and dark olive gray (5Y 3/2) to very dark gray (5Y 3/1) CLAY. The boundaries are gradational.
		2		3		}}			5Y 3/1	General Description: The core is moderately to extensively biscuited and fractured. Bioturbation is rarely observable.  Note: Section 1 was disturbed during coring operations and its stratigraphic orientation is unknown.
		3		4					5Y 3/2	
		4		5	late Miocene				5Y 3/1	
		5		6					5Y 3/2	
		6		7		}}			5Y 5/3	
		7		8		}}			5Y 3/2 To 5Y 3/1	
		8		9		}}	S			
		9		CC				M		

2 8 0 7 14

SITE 1014 HOLE A CORE 50X

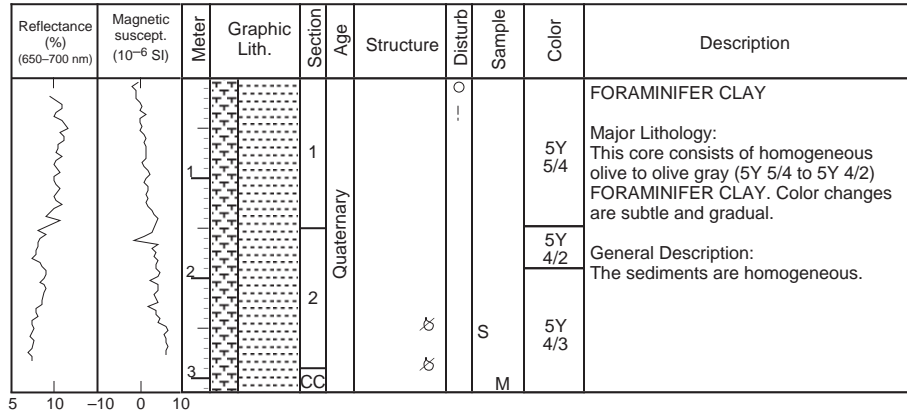
CORED 439.4 - 449.0 mbsf





SITE 1014 HOLE B CORE 1H

CORED 0.0 - 3.2 mbsf



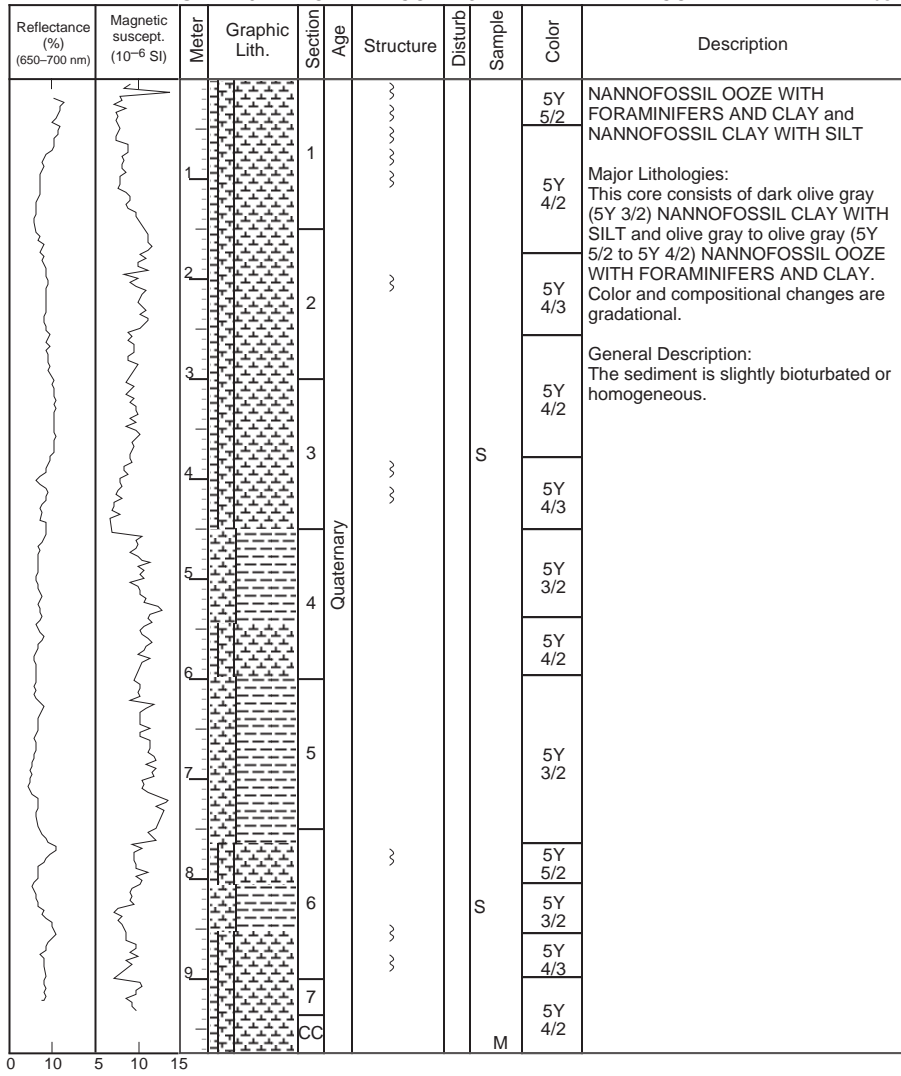
SITE 1014 HOLE B CORE 2H CORED 3.2 - 12.7 mbsf

Reflectance (%) (650-700 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		1	Quaternary			S	5Y 4/4	<p>NANNOFOSSIL OOZE WITH CLAY and SILTY CLAY WITH FORAMINIFERS</p> <p>Major Lithologies: This core consists of olive (5Y 4/4) NANNOFOSSIL OOZE WITH CLAY and olive gray to dark olive gray (5Y 4/2 to 5Y 3/2) SILTY CLAY WITH FORAMINIFERS containing about 10% foraminifers. Color and compositional changes are gradational.</p>
		2		2						
		3		3						
		4		4						
		5		5						
		6		6						
		7		7						
		8		8						
		9		9						
0	5	5	15	CC			M	5Y 3/2		



SITE 1014 HOLE B CORE 3H

CORED 12.7 - 22.2 mbsf





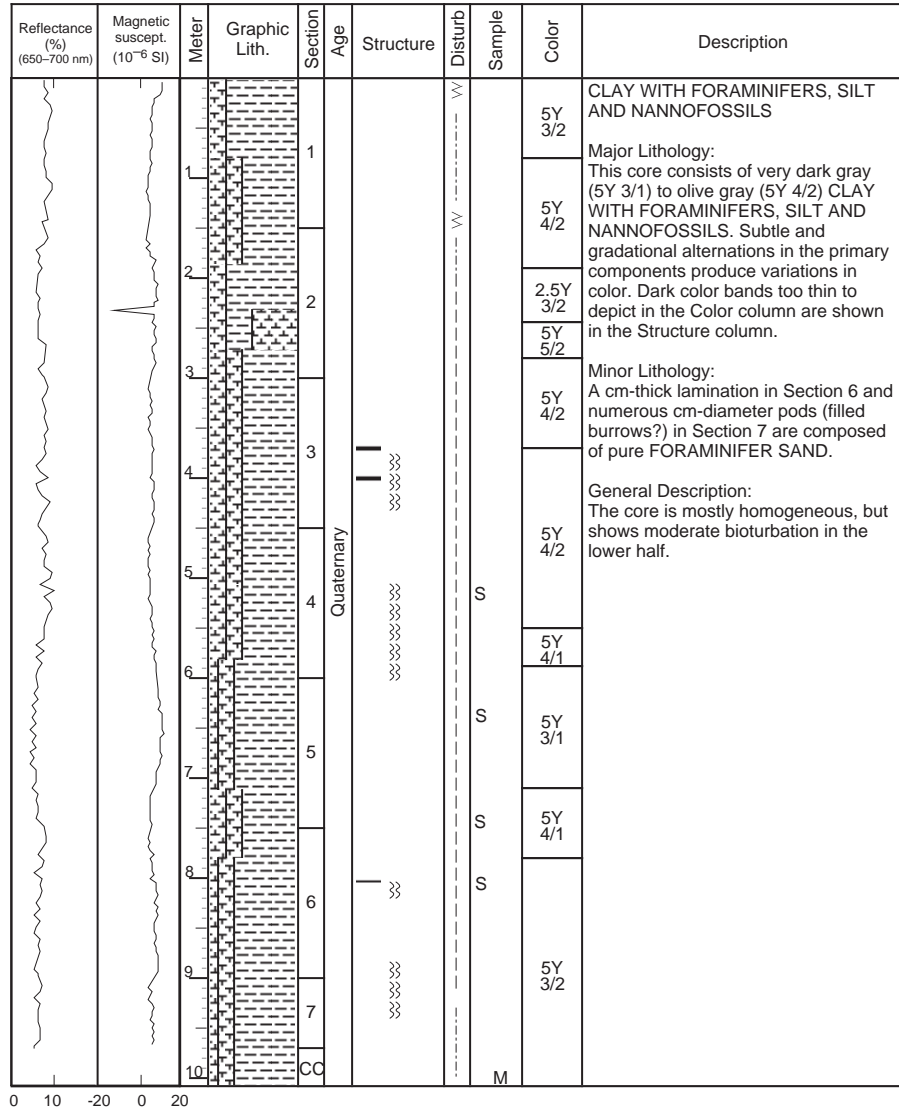
SITE 1014 HOLE B CORE 5H

CORED 31.7 - 41.2 mbsf

Reflectance (%) (650-700 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
		1		1	~ ~ ~ ~ ~ ~ ~ ~ ~ ~	S           S           S	S           S           S	2.5Y 3/1	CLAY WITH SILT, CLAY WITH NANNOFOSSILS and NANNOFOSSIL OOZE WITH CLAY AND FORAMINIFERS  Major Lithologies: The core consists of irregular and gradational alternations between very dark grayish brown (2.5Y 3/1) to very dark gray (5Y 3/1) CLAY WITH SILT, dark grayish brown (2.5Y 4/2) to dark gray (5Y 4/1) CLAY WITH NANNOFOSSILS, and olive (5Y 6/2) to olive gray (5Y 5/2) NANNOFOSSIL OOZE WITH CLAY AND FORAMINIFERS. Color transitions are gradational.  General Description: The sediment is moderately bioturbated.
		2		2				2.5Y 4/2	
		3		3				5Y 5/2	
		4		4				2.5Y 5/2	
		5		5				5Y 6/2	
		6		6				5Y 5/2	
		7		7				5Y 6/2	
		8		8				5Y 4/2	
		9		9				2.5G 2.5/2	
		CC		CC				5Y 3/1	
								5Y 4/1	

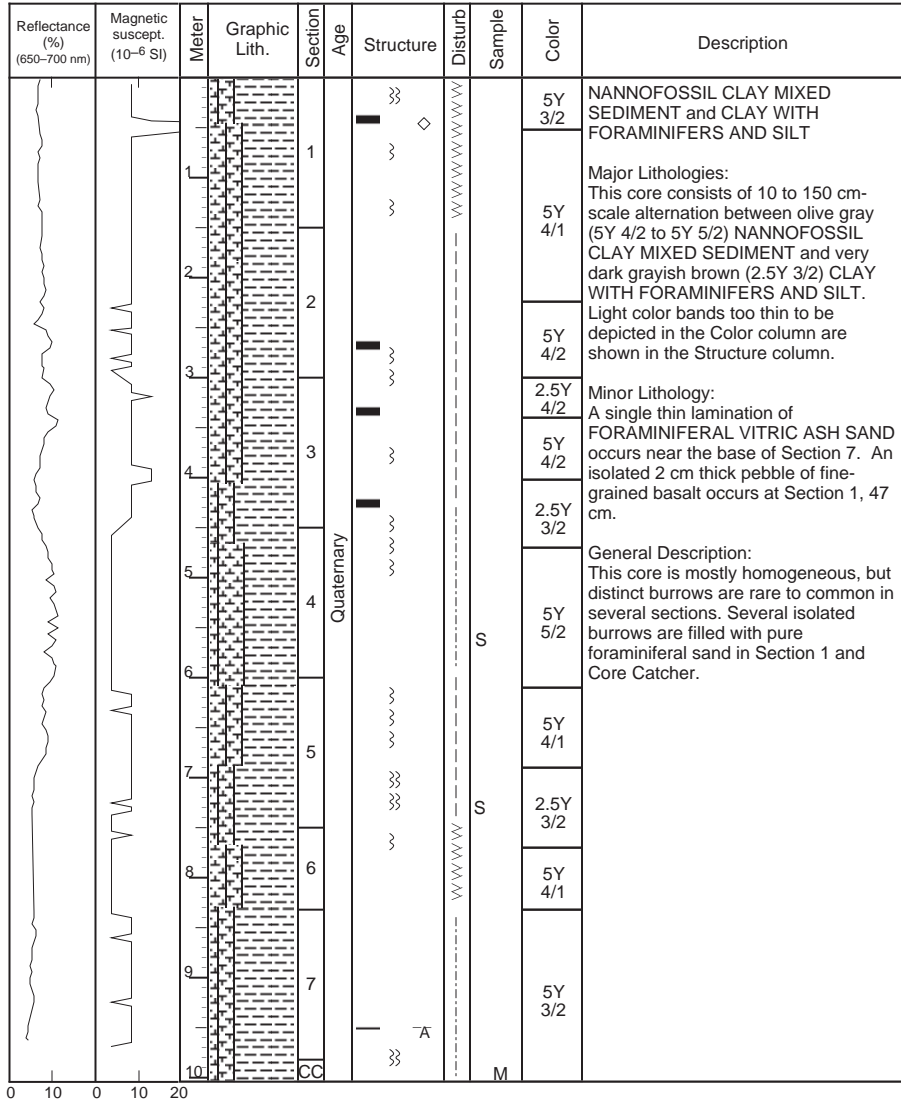
0 10 5 10 15

SITE 1014 HOLE B CORE 6H CORED 41.2 - 50.7 mbsf

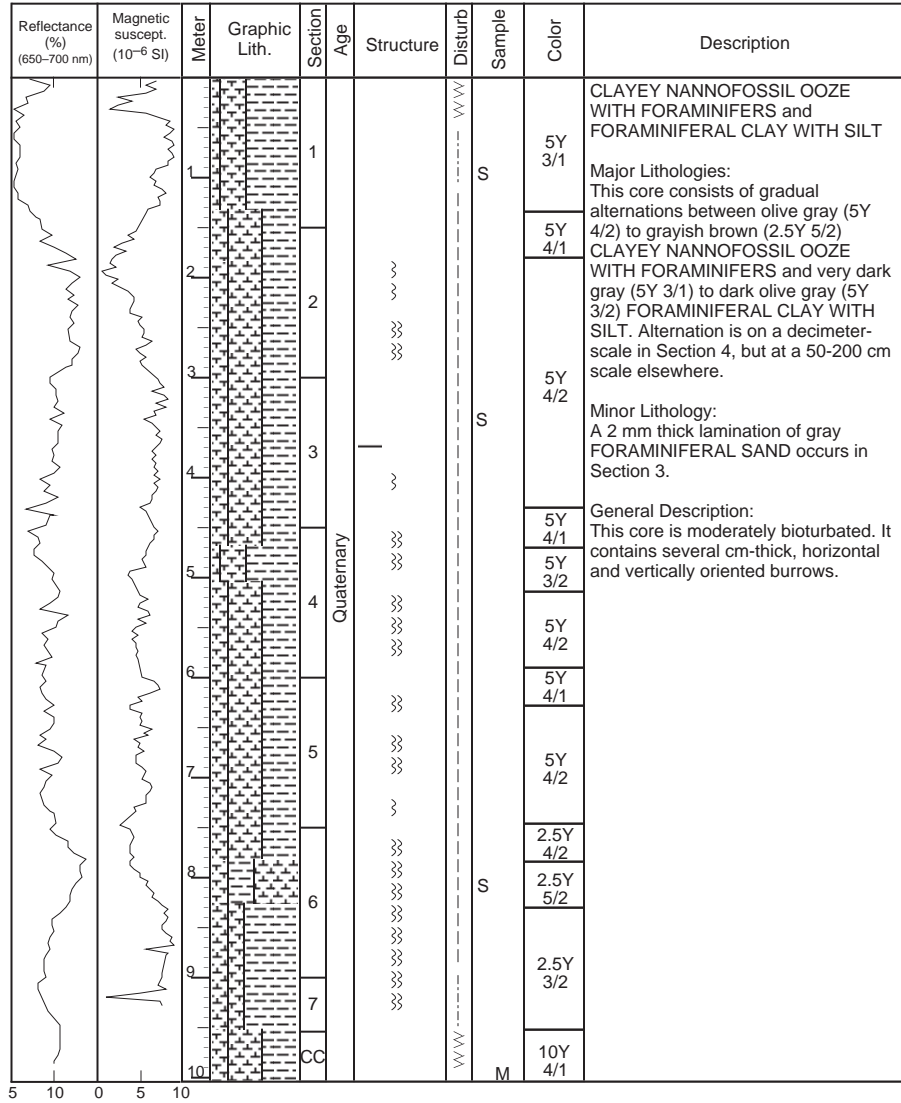


SITE 1014 HOLE B CORE 7H

CORED 50.7 - 60.2 mbsf



SITE 1014 HOLE B CORE 8H CORED 60.2 - 69.7 mbsf





SITE 1014 HOLE B CORE 9H

CORED 69.7 - 79.2 mbsf

Reflectance (%) (650-700 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		1	Quaternary				2.5Y 4/2	<p>CLAY WITH FORAMINIFERS and NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY</p> <p>Major Lithologies: This core consists of alternations along a complete compositional spectrum between very dark gray (2.5Y 3/2) CLAY WITH FORAMINIFERS and olive (5Y 4/3) NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY. Color transitions are gradual.</p> <p>Minor Lithology: A mm-thick lamination of FORAMINIFERAL SAND occurs in the upper part of Section 1.</p> <p>General Description: The core is mostly homogeneous with localized areas of moderate distinct bioturbation.</p>
		2		2.5Y 3/2						
		3		5Y 5/2						
		4		2.5Y 3/2						
		5		2.5Y 5/2						
		6		5Y 4/2						
		7		2.5Y 3/2						
		8		5Y 5/2						
		9		5Y 4/2						
		CC		5Y 4/3						

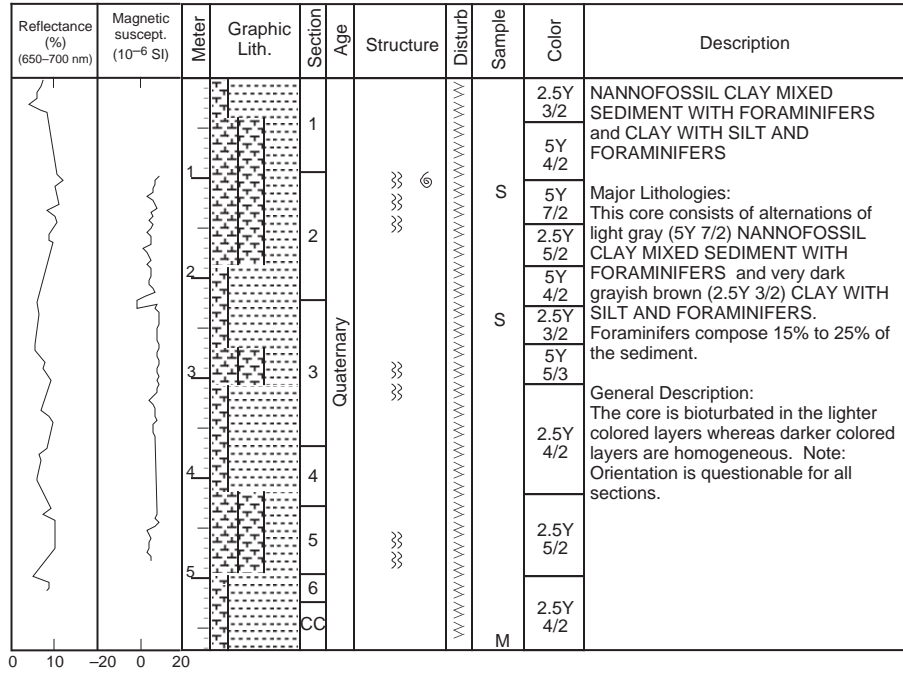






SITE 1014 HOLE B CORE 13H

CORED 105.2 - 114.7 mbsf



SITE 1014 HOLE B CORE 14X CORED 114.7 - 120.1 mbsf

Reflectance (%) (650-700 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		1	Quaternary			2.5Y 3/2	NANNOFOSSIL OOZE WITH CLAY and SILTY CLAY	
		2		5Y 3/1				Major Lithologies: This core consists of very dark gray to dark olive gray (5Y 3/1 to 5Y 3/2) SILTY CLAY and dark grayish brown to very dark grayish brown (2.5Y 4/2 to 2.5Y 3/2) NANNOFOSSIL OOZE WITH CLAY. Color and compositional changes are gradational.		
		3	2.5Y 4/2	2.5Y 3/2				Minor Lithology: Near the base of the core in Section CC occurs black (5Y 2.5/1) SILTY CLAY WITH SPICULES containing about 10% sponge spicules.		
		4	2.5Y 4/2							
		5	5Y 3/2							
		6	5Y 2.5/1							

SITE 1014 HOLE B CORE 15X

CORED 120.1 - 129.7 mbsf

Reflectance (%) (650-700 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		1	Quaternary			M	5Y 2.5/1 To 5Y 3/1	<p>NANNOFOSSIL CLAY MIXED SEDIMENT and CLAY WITH FORAMINIFERS</p> <p>Major Lithologies: This core consists of black to very dark gray (5Y 2.5/1 to 5Y 3/1) CLAY WITH FORAMINIFERS and olive gray to olive (5Y 4/2 to 5Y 4/3) NANNOFOSSIL CLAY MIXED SEDIMENT. Color and compositional changes are gradational.</p> <p>General Description: The sediment is slightly bioturbated. Coring disturbance has caused moderate fracturing of the core.</p>
		2		5Y 4/2						
		3		5Y 3/2						
		4		5Y 4/2						
		5		5Y 4/3						
		6		5Y 3/2						
		7		5Y 4/2						
8	5Y 3/2									
9	5Y 4/2									
				7					5Y 2.5/1	
				CC						

SITE 1014 HOLE B CORE 16X CORED 129.7 - 139.3 mbsf

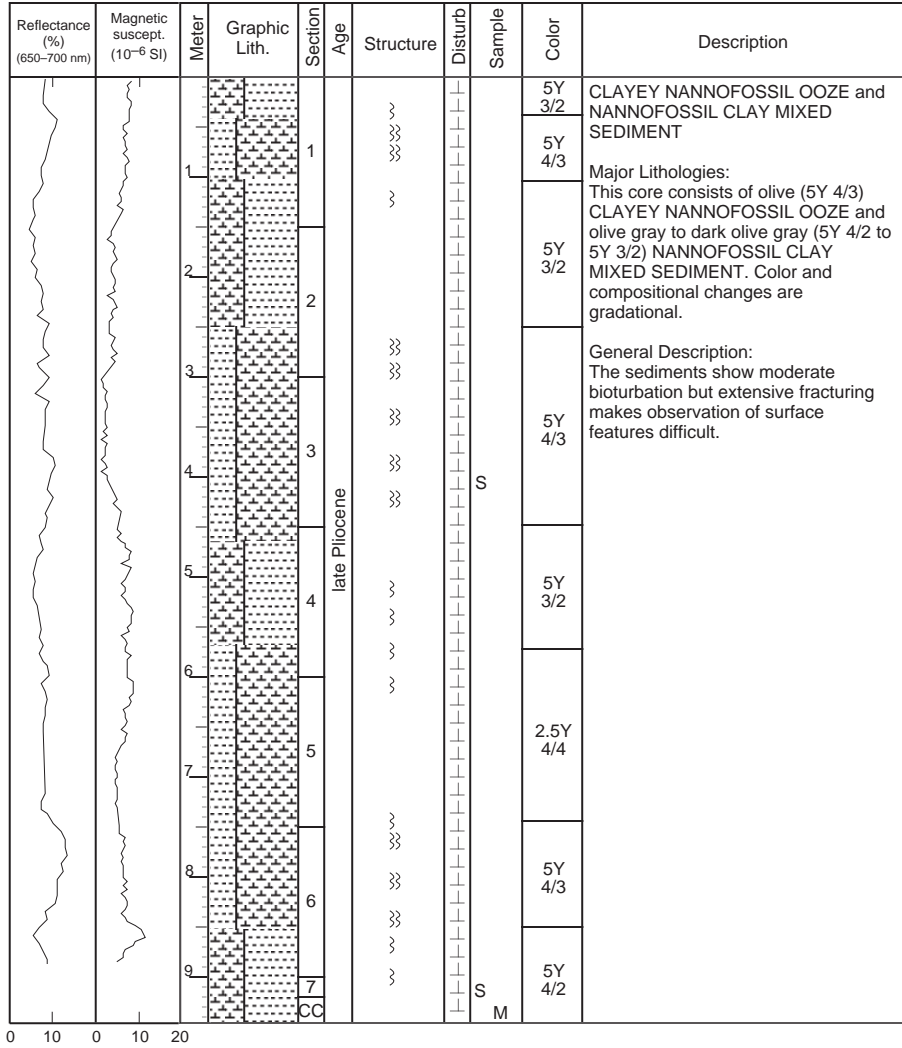
Reflectance (%) (650-700 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description								
		1		1	Quaternary				5Y 4/3	<p>CLAY NANNOFOSSIL MIXED SEDIMENT</p> <p>Major Lithology: This core consists of very dark grayish brown to olive (2.5Y 3/2 to 5Y 4/3) CLAY NANNOFOSSIL MIXED SEDIMENT. Color changes are gradational and darker intervals contain greater clay content.</p> <p>General Description: The sediments show slight bioturbation but extensive fracturing makes observation of surface features difficult.</p>								
		2							5Y 4/2									
		3							5Y 5/3 To 5Y 4/3									
		4																
		5																
		6							late Pliocene									
		7																
		8																
		9							CC									
		10																
5	0	10																



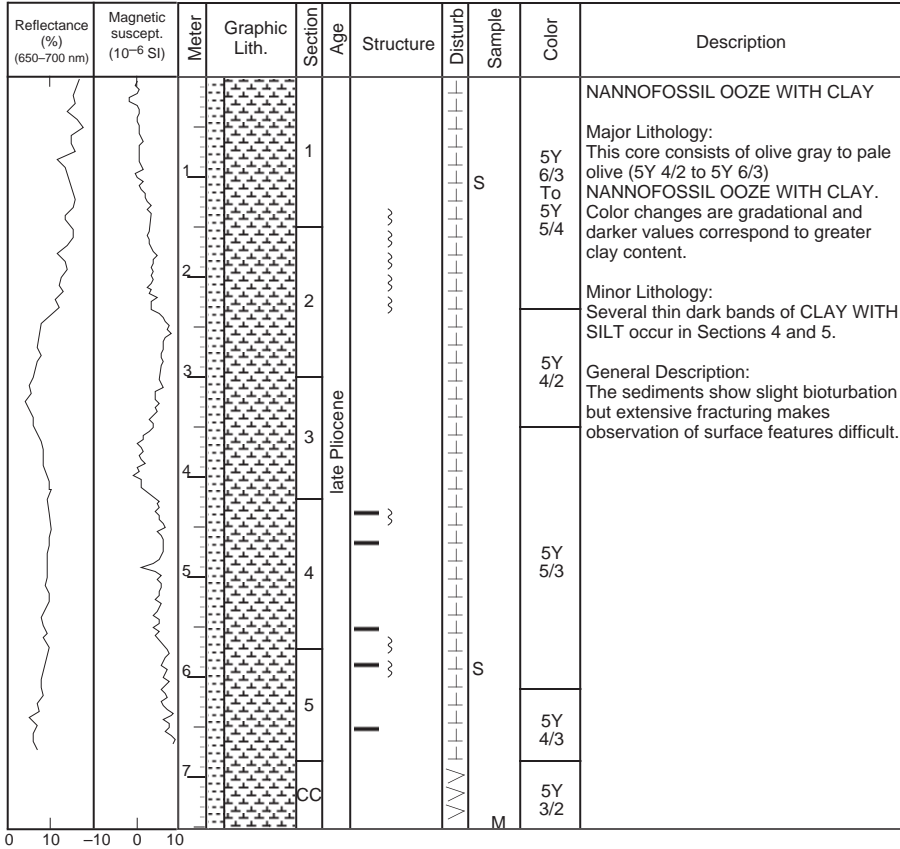


SITE 1014 HOLE B CORE 17X

CORED 139.3 - 148.9 mbsf



SITE 1014 HOLE B CORE 18X CORED 148.9 - 158.6 mbsf

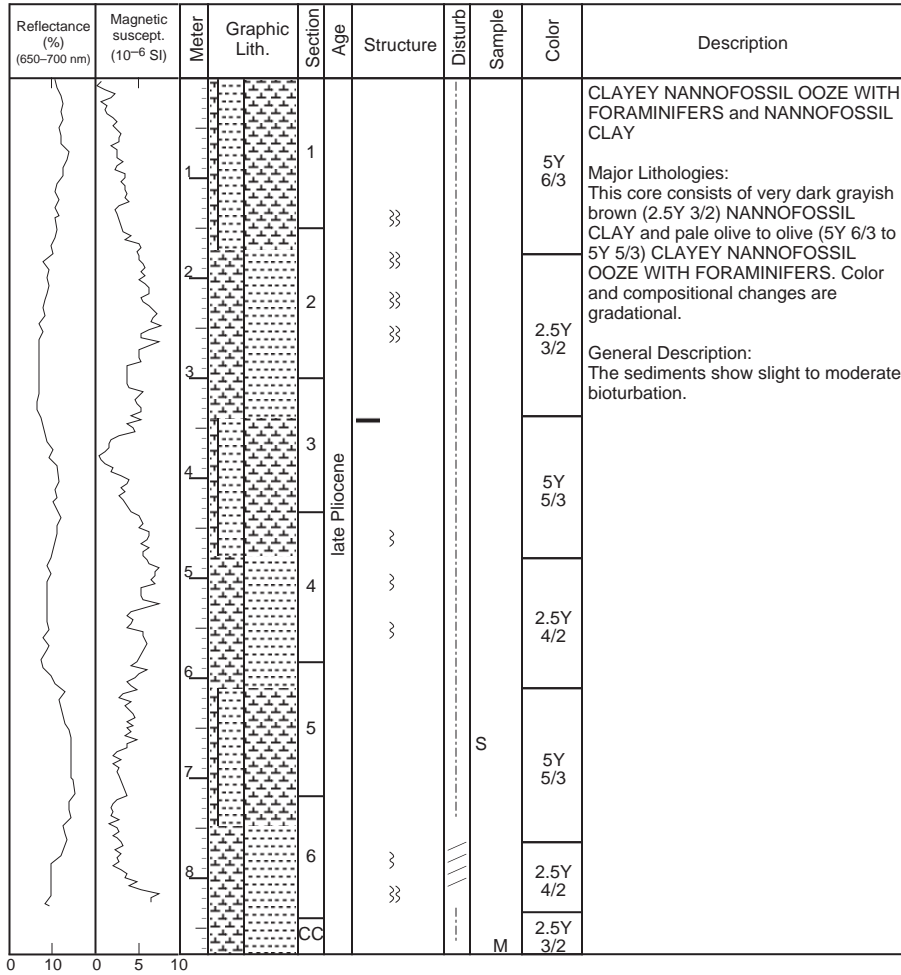


SITE 1014 HOLE B CORE 19X

CORED 158.6 - 168.1 mbsf

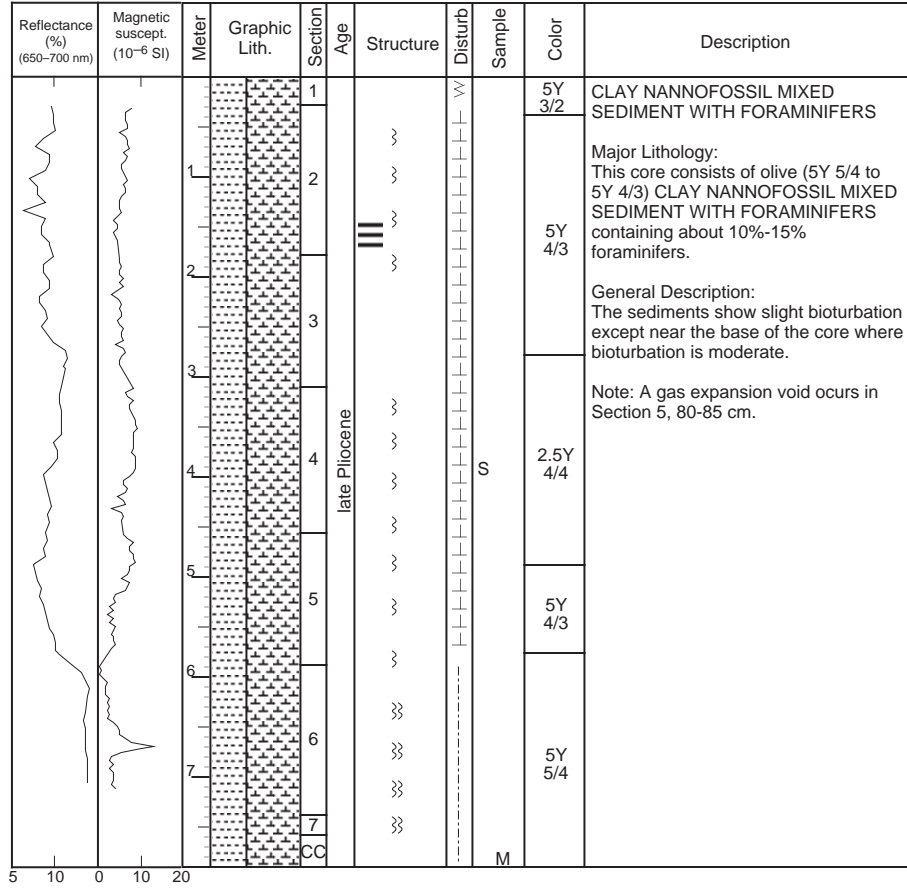
Reflectance (%) (650-700 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		1	late Pliocene CC			M	5Y 5/3	<p>SILTY CLAY and NANNOFOSSIL OOZE WITH CLAY</p> <p>Major Lithologies: This core consists of gradual alternations between olive (5Y 5/3) NANNOFOSSIL OOZE WITH CLAY and dark grayish brown (2.5Y 4/2) SILTY CLAY.</p> <p>General Description: The sediment is homogenized by XCB coring which has created "artificial" laminations.</p>
		2		2					2.5Y 4/2	
		3		3					5Y 5/3	
		4		4					2.5Y 4/2	
		5		5					5Y 5/3	
		6		6					2.5Y 4/2	
		7		7					5Y 5/3	

SITE 1014 HOLE B CORE 20X CORED 168.1 - 177.7 mbsf



SITE 1014 HOLE B CORE 21X

CORED 177.7 - 187.3 mbsf

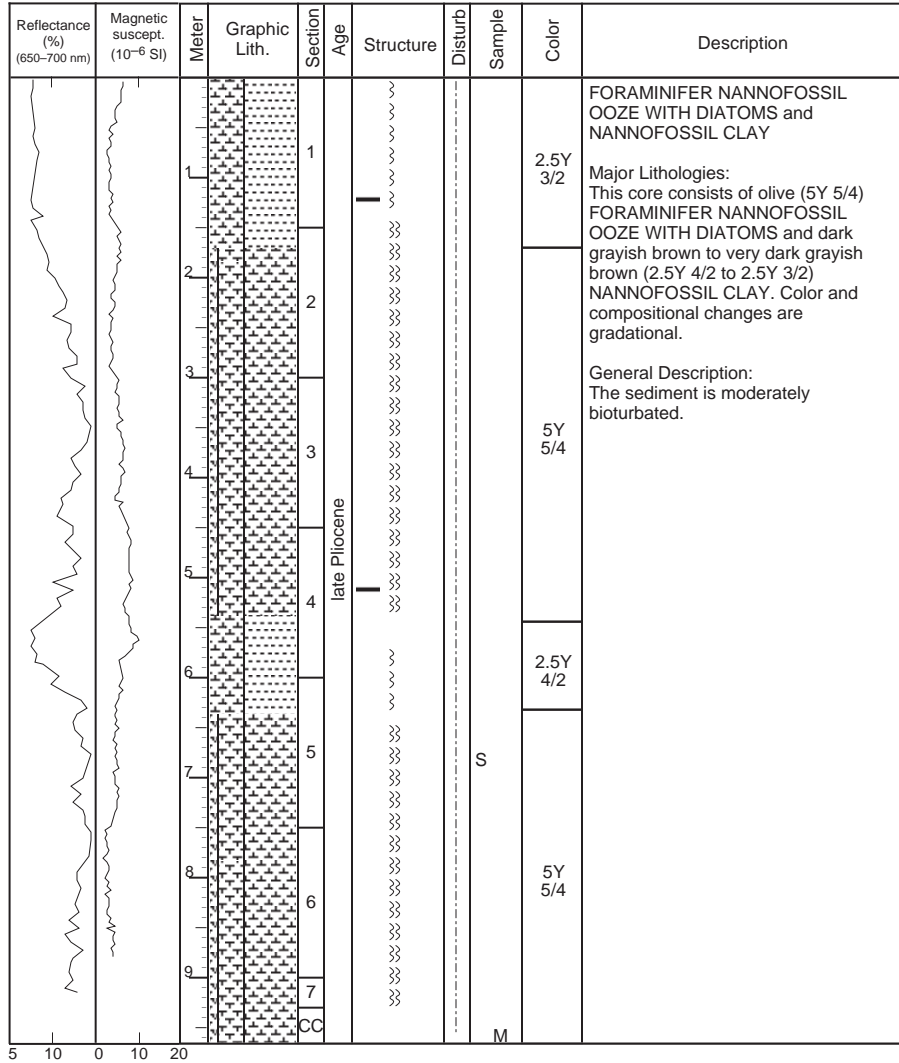


SITE 1014 HOLE B CORE 22X CORED 187.3 - 196.9 mbsf

Reflectance (%) (650-700 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		1	late Pliocene	}}	- - - - -	M	5Y 5/3	FORAMINIFER NANNOFOSSIL OOZE WITH CLAY and FORAMINIFER CLAY
		2		}}		5Y 3/2 To 5Y 5/3 3/1			Major Lithologies: This core consists of very dark gray to dark olive gray (5Y 3/1 to 5Y 3/2) FORAMINIFER CLAY and olive (5Y 5/3) FORAMINIFER NANNOFOSSIL OOZE WITH CLAY. Color and compositional changes are gradational.	
		3		}}		10Y 4/2			General Description: The sediments are moderately bioturbated.	
		4		}}		5Y 5/3			Note: A gas expansion void occurs in Section 3, 127-131 cm.	
		5		}}		5Y 4/2				

SITE 1014 HOLE B CORE 23X

CORED 196.9 - 206.5 mbsf

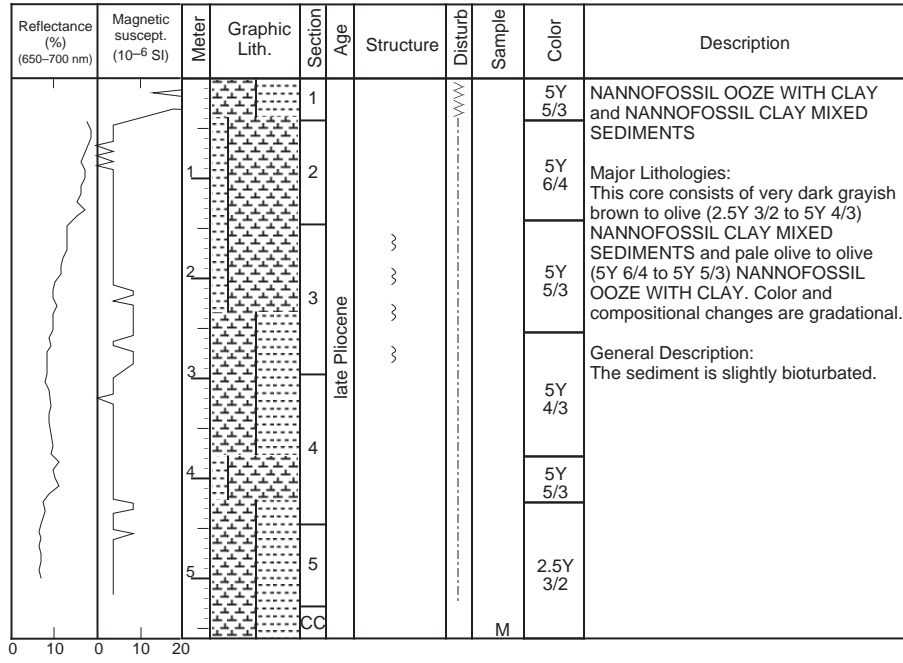








SITE 1014 HOLE B CORE 26X CORED 225.8 - 235.4 mbsf



SITE 1014 HOLE B CORE 27X

CORED 235.4 - 245.0 mbsf

Reflectance (%) (650-700 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description	
				1		}}			5Y 5/3	<p>NANNOFOSSIL OOZE WITH CLAY and CLAYEY NANNOFOSSIL OOZE WITH CARBONATE</p> <p>Major Lithologies: This core consists of olive (5Y 5/3) NANNOFOSSIL OOZE WITH CLAY and olive gray (5Y 4/2) to olive (5Y 4/3) CLAYEY NANNOFOSSIL OOZE WITH CARBONATE. Color transitions are gradational.</p> <p>General Description: This core is extensively fractured and biscuited by XCB coring. It is moderately bioturbated.</p>	
				2	late Pliocene	}}					5Y 4/3
				3	}}	5Y 4/2					
				4	}}	5Y 4/3					
				CC	}}						

SITE 1014 HOLE C CORE 1H CORED 0.0 - 9.5 mbsf

GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		Quaternary				M	2.5Y 4/2	<p>NANNOFOSSIL OOZE WITH CLAY and SILTY CLAY WITH FORAMINIFERS</p> <p>Major Lithologies: This core consists of grayish brown (2.5Y 5/2) NANNOFOSSIL OOZE WITH CLAY and dark olive gray (5Y 3/2) to dark grayish brown (2.5Y 4/2) SILTY CLAY WITH FORAMINIFERS. Color transitions are gradual.</p> <p>General Description: The core is homogeneous within broad color bands, except for rare to locally common distinct burrows.</p>
		2							5Y 4/2	
		3								
		4							2.5Y 4/2	
		5							2.5Y 5/2	
		6								
		7							5Y 4/2	
		8								
		9							5Y 3/2	
		9.5							2.5Y 4/2	

SITE 1014 HOLE C CORE 2H

CORED 9.5 - 19.0 mbsf

GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		1	Quaternary				5Y 3/1 To 5Y 4/2	<p>SILTY CLAY WITH FORAMINIFERS, NANNOFOSSIL OOZE WITH CLAY and NANNOFOSSIL CLAY MIXED SEDIMENT</p> <p>Major Lithologies: This core consists of interbedded very dark gray (5Y 3/1) SILTY CLAY WITH FORAMINIFERS, olive gray to dark gray (5Y 4/2 to 5Y 4/1) NANNOFOSSIL OOZE WITH CLAY, and NANNOFOSSIL CLAY MIXED SEDIMENT. Color and compositional changes are gradational.</p> <p>General Description: The sediment is homogenous with foraminifers disseminated throughout.</p>
		2		5Y 4/1 To 5Y 3/1						
		3		5Y 6/3						
		4		5Y 3/2						
		5		5Y 5/2						
		6		5Y 3/2 To 5Y 5/2						
		7		5Y 3/1						
		8								
		9								
1.4	1.6	5	10	15						





SITE 1014 HOLE D CORE 3H CORED 16.0 - 25.5 mbsf

Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	1		1					5Y 4/2	<p>NANNOFOSSIL OOZE WITH FORAMINIFERS and FORAMINIFER SILTY CLAY</p> <p>Major Lithologies: This core consists of alternations between grayish brown (2.5Y 5/2) to olive (5Y 4/3) NANNOFOSSIL OOZE WITH FORAMINIFERS and very dark gray (5Y 3/1) to dark gray (5Y 4/1) FORAMINIFER SILTY CLAY. Color transitions are gradational over 5 to 30 cm.</p> <p>General Description: The sediments are generally homogeneous, but are only slightly burrowed.</p>
	2		2					5Y 3/2	
	3		3					5Y 3/1	
	4		3			~		5Y 4/1	
	5		4	Quaternary		~		5Y 3/2	
	6		4			~		5Y 3/1	
	7		5			~		5Y 4/2	
	8		5			~		5Y 4/3	
	9		6			~		5Y 3/2	
	10		6			~		5Y 3/1	
	11		7			~		5Y 4/3	
	12		7			~		5Y 4/1	
	13		7			~		5Y 3/1	
	14		7			~		5Y 3/1	
15	CC								



SITE 1014 HOLE D CORE 4H

CORED 25.5 - 35.0 mbsf

Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
	1		1	~			5Y 4/2	FORAMINIFER NANNOFOSSIL OOZE,
	2		2	~			5Y 3/2	NANNOFOSSIL CLAY MIXED SEDIMENT WITH FORAMINIFERS and FORAMINIFER CLAY
	3		3	~			5Y 4/2	Major Lithologies: This core is composed of thick, gradual alternation between light gray (5Y 7/1) to olive gray (5Y 5/2) FORAMINIFER NANNOFOSSIL OOZE, dark grayish brown (2.5Y 4/2) to olive gray (5Y 4/2) NANNOFOSSIL CLAY MIXED SEDIMENT WITH FORAMINIFERS, and dark olive gray (5Y 3/2) to very dark grayish brown (2.5Y 3/2) FORAMINIFER CLAY.
	4		4	~			2.5Y 3/2	General Description: The core is increasingly bioturbated with distinct burrows.
	5		4	~			5Y 5/2 To 2.5Y 5/2	
	6		4	~			5Y 7/1	
	7		4	~			5Y 4/2	
	8		5	~			5Y 4/2	
	9		5	~			2.5Y 4/2	
	10		6	~			5Y 3/1	
11		7	~			2.5Y 4/2		
12		CC	Quaternary	~		M		

SITE 1014 HOLE D CORE 5H CORED 35.0 - 44.5 mbsf

Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description		
	1		1					5Y 5/2	CLAY WITH FORAMINIFERS and NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY		
	2							5Y 4/2 To 5Y 5/2	<p>Major Lithologies: This core consists of gradual alterations between very dark gray (5Y 3/1) CLAY WITH FORAMINIFERS and olive gray (5Y 5/2 to 5Y 6/2) NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY. Color and compositional changes are transitional.</p> <p>General Description: This sediment is moderately bioturbated.</p>		
	3										
	4										
	5			Quaternary						5Y 6/2 To 5Y 3/2	
	6									5Y 3/2 To 5Y 3/1	
	7									5Y 5/2	
	8										
	9									5Y 4/2	
	10				CC					M	

-20 0 20

SITE 1014 HOLE D CORE 6H

CORED 44.5 - 54.0 mbsf

Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	0		1	1			M	5Y 3/2	FORAMINIFER CLAY WITH SILT and FORAMINIFER NANNOFOSSIL OOZE WITH CLAY
	1							5Y 4/2	Major Lithologies: This core is composed of m-scale alternation of olive gray (5Y 4/2) to grayish brown (2.5Y 5/2)
	2							5Y 3/1	FORAMINIFER NANNOFOSSIL
	3							5Y 3/2	OOZE WITH CLAY and dark olive gray (5Y 3/2) to very dark gray (5Y 3/1) FORAMINIFER CLAY WITH SILT. The boundaries are gradational.
	4							2.5Y 3/2 To 2.5Y 5/2	Minor Lithology: A 0.5 cm thick layer of FORAMINIFER SAND occurs in Section 4, 110 cm and many pods of FORAMINIFER SAND scatter in Sections 5 and 6.
	5							5Y 4/2	
	6							2.5Y 3/2 To 2.5Y 4/2	General Description: The core is slightly to moderately bioturbated.
	7							5Y 4/2	
	8							5Y 3/2	
	9							5Y 4/3	
10	CC								

0 10 20



SITE 1014 HOLE D CORE 8H

CORED 63.5 - 73.0 mbsf

Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	1		1		~			5Y 4/2	<p>CLAY WITH FORAMINIFERS AND NANNOFOSSILS</p> <p>Major Lithology: This core consists of very dark grayish brown to olive gray (2.5Y 3/2 to 5Y 4/2) CLAY WITH FORAMINIFERS AND NANNOFOSSILS. Color changes are subtle and gradational.</p> <p>Minor Lithology: Thin intervals of FORAMINIFER SAND occur in Section 4 and Section 6.</p> <p>General Description: The sediments are moderately bioturbated.</p>
	2		2	~				2.5Y 3/2	
	3		3	~				5Y 4/2	
	4		4	~				2.5Y 4/2	
	5		5	~				5Y 4/2	
	6		6	~				5Y 4/2	
	7		7	~				5Y 3/2	
	8		8	~				5Y 3/2	
	9		9	~				5Y 3/1	
	10		10	CC				M	



SITE 1014 HOLE D CORE 10H

CORED 82.5 - 92.0 mbsf

Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	1		1					5Y 3/2	<p>CLAY WITH FORAMINIFERS and CARBONATE CLAY MIXED SEDIMENTS</p> <p>Major Lithologies: This core consists of m-scale alternations between dark olive gray to dark gray (5Y 3/2 to 5Y 4/1) CLAY WITH FORAMINIFERS and olive gray (5Y 5/2 to 5Y 4/2) CARBONATE CLAY MIXED SEDIMENTS. Color and compositional changes are gradational.</p> <p>Minor Lithology: A thin layer of QUARTZ FORAMINIFER SAND occurs in Section 3, 125 cm. Several small pods of QUARTZ FORAMINIFER SAND also occur below this interval throughout Section 4.</p> <p>General Description: The sediments are slightly bioturbated or homogenous.</p> <p>Note: A gas expansion void occurs in Section 1, 45-51 cm.</p>
	2		2		}}			5Y 5/2	
	3		3		}}			5Y 4/2	
	4		4	***				5Y 4/1	
	5		4	Quaternary	}}				
	6		5		}}			5Y 4/2	
	7		6					5Y 3/2	
	8		6		}}				
	9		7		}}			5Y 4/2	
	10		7		}}				
			CC				M		

SITE 1014 HOLE D CORE 11X CORED 92.0 - 101.7 mbsf

Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	1		1		B			5Y 4/2	<p>FORAMINIFERAL CLAY WITH SILT and NANNOFOSSIL CLAY MIXED SEDIMENT WITH FORAMINIFERS</p> <p>Major Lithologies: This core consists of thick alternations between very dark gray (5Y 3/1) to olive gray (5Y 4/2) FORAMINIFERAL CLAY WITH SILT and olive (5Y 4/3 to 5Y 5/3) NANNOFOSSIL CLAY MIXED SEDIMENT WITH FORAMINIFERS. Color and compositional changes are gradational.</p> <p>General Description: Only the olive gray intervals show distinct burrows. There is moderate disturbance of the sediments by XCB coring.</p>
	2		2	A*	5Y 3/2				
	3		3	~ ~ ~	5Y 4/3				
	4		4		5Y 5/3				
	5		5	Quaternary	5Y 4/3				
	6		6	~ ~ ~	5Y 3/2				
	7		7		5Y 4/2				
	8		8		5Y 3/1				
	9		9	CC	5Y 4/3				
								5Y 4/2	



SITE 1014 HOLE D CORE 12X

CORED 101.7 - 111.3 mbsf

Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	1		1	Quaternary	~ ~ ~ ~	~ ~ ~ ~ ~ ~	~ ~ ~ ~ ~ ~	5Y 3/1	<p>CLAY WITH FORAMINIFERS and CARBONATE CLAY MIXED SEDIMENT</p> <p>Major Lithologies:                      This core consists of dark olive gray to very dark gray (5Y 3/2 to 5Y 3/1) CLAY WITH FORAMINIFERS and olive to olive gray (5Y 4/3 to 5Y 4/2) CARBONATE CLAY MIXED SEDIMENT. Color and compositional changes are gradational.</p> <p>General Description:                      The sediments show slight bioturbation or are homogeneous but extensive fracturing makes observation of surface features difficult.</p>
	2	Void	2						
	3		3						
	4		4						
	5		5						
	6		6						
0 10 20			CC				M	5Y 3/2	

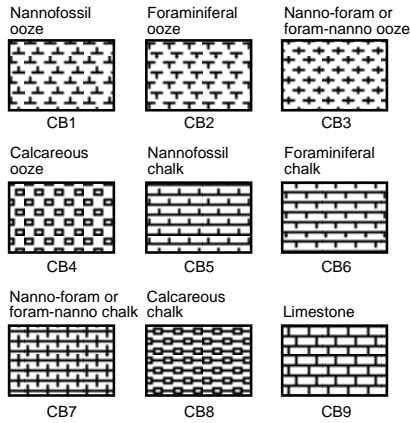




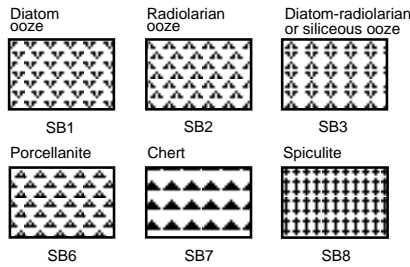
**Key to symbols used in the “Graphic Lithology” column on the core description sheets.**

**Biogenic pelagic sediments**

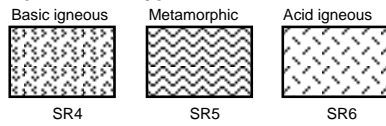
**Calcareous**



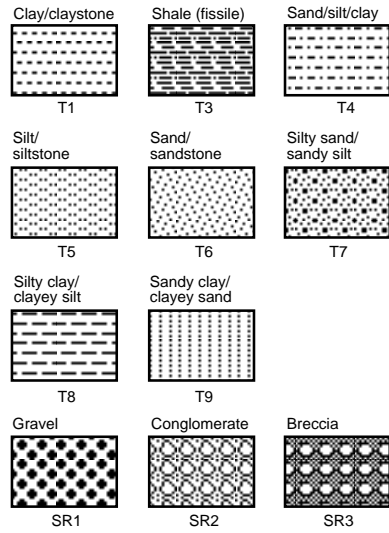
**Siliceous**



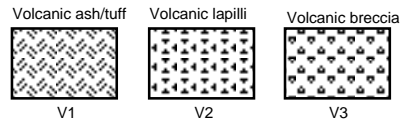
**Special rock types**



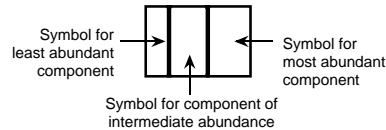
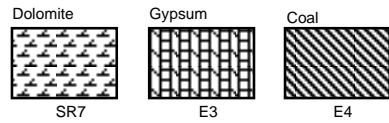
**Siliciclastic sediments**



**Volcaniclastic sediments**



**Chemical and other sediments**



**Key to symbols used in the “Structures” column on the core description sheets.**

Drilling disturbance symbols	Sedimentary structures cont.	
<b>Soft sediments</b>		
- - - - -	↑ F	Fining-upward sequence
- · - · - · -	↑	Interval over which primary sedimentary structure occur
~ ~ ~ ~ ~		Planar laminae
o o o o o	/ / / / /	Wedge-planar laminae/beds
<b>Hard sediments</b>		
/ / / / /	· · · · ·	Graded bedding (normal)
	· · · · ·	Graded bedding (reversed)
+ + + + +	—	Sharp contact
/ / / / /	- - - - -	Gradational contact
+ + + + +	~ ~ ~ ~ ~	Scoured, sharp contact
/ / / / /	~ ~ ~ ~ ~	Scoured contact with graded bed
x x x x x	■	Thick color bands (sharp contact)
	■	Thick color bands (gradational contact)
	■	Medium color bands (sharp contact)
	■	Medium color bands (gradational contact)
	■	Thin color bands (sharp contact)
	■	Thin color bands (gradational contact)
		Laminations (mm scale)
	■	Individual thick color band
	■	Individual medium color band
	■	Individual thin color band
	—	Individual lamination
	~ ~ ~ ~ ~	Wavy lamination
	/ / / / /	Cross laminae
	/ / / / /	Cross stratification
	/ / / / /	Cross bedding
	~ ~ ~ ~ ~	Convoluted/contorted bedding
	~ ~ ~ ~ ~	Flaser bedding
	△	Graded interval, normal
	<	Veins
	/ / / / /	Water escape structure
	∩	Scour
	◇	Isolated pebbles/cobbles
	◆	Isolated mud clasts
	~ ~ ~ ~ ~	Slump blocks or slump folds
	~ ~ ~ ~ ~	Contorted slump
	X X X X X	Probable compaction fracture
	/ / / / /	Microfault (normal)
	/ / / / /	Microfault (thrust)
	/ / / / /	Macrofault
	/ / / / /	Fracture
	X X X X X	Totally fractured
	~ ~ ~ ~ ~	Vein structures
	~ ~ ~ ~ ~	Color mottles
	~ ~ ~ ~ ~	Dolomite nodule/concretion
	D	Disseminated dolomite
	(P)	Pyrite nodule/concretion
	P	Disseminated pyrite
	(G)	Glauconite
	●	Concretions/nodules
	(Ba)	Barite nodule/concretion
	Ba	Disseminated barite
	(Ca)	Calcite nodule/concretion
	(C)	Carbonate nodule/concretion
	(Ch)	Chert nodule/concretion
	A●	Ash/pumice pods
	-A	Ash layer

- - - - -	Slightly disturbed
- · - · - · -	Moderately disturbed
~ ~ ~ ~ ~	Highly disturbed
o o o o o	Soupy
<b>Hard sediments</b>	
/ / / / /	Slightly fractured
+ + + + +	Moderately fractured
/ / / / /	Highly fragmented
x x x x x	Drilling breccia

<b>Sedimentary structures</b>	
>	Burrows, rare (<30% surface area)
>>	Burrows, common (30%–60% surface area)
>>>	Burrows, abundant (>60% surface area)
>>>	Discrete <i>Zoophycos</i> trace fossil
⊗	Discrete <i>Chondrites</i> trace fossil
⊗	<i>Sagarites</i> sponge
⊗	Gastropods
⊗	Other bivalves
⊗	Shell fragments
⊗	Wood fragments
⊗	Fish debris