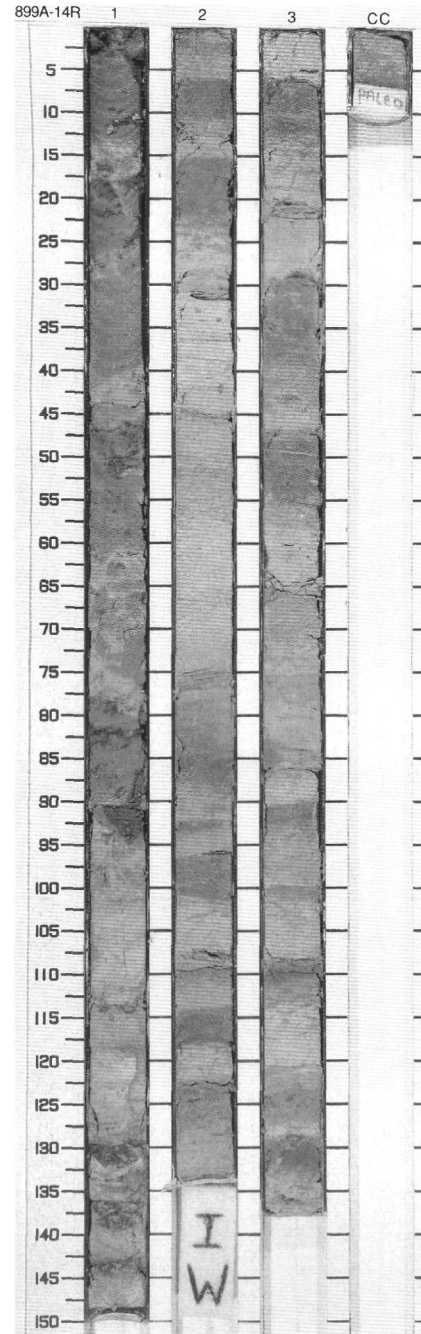


SITE 899 HOLE A CORE 14R

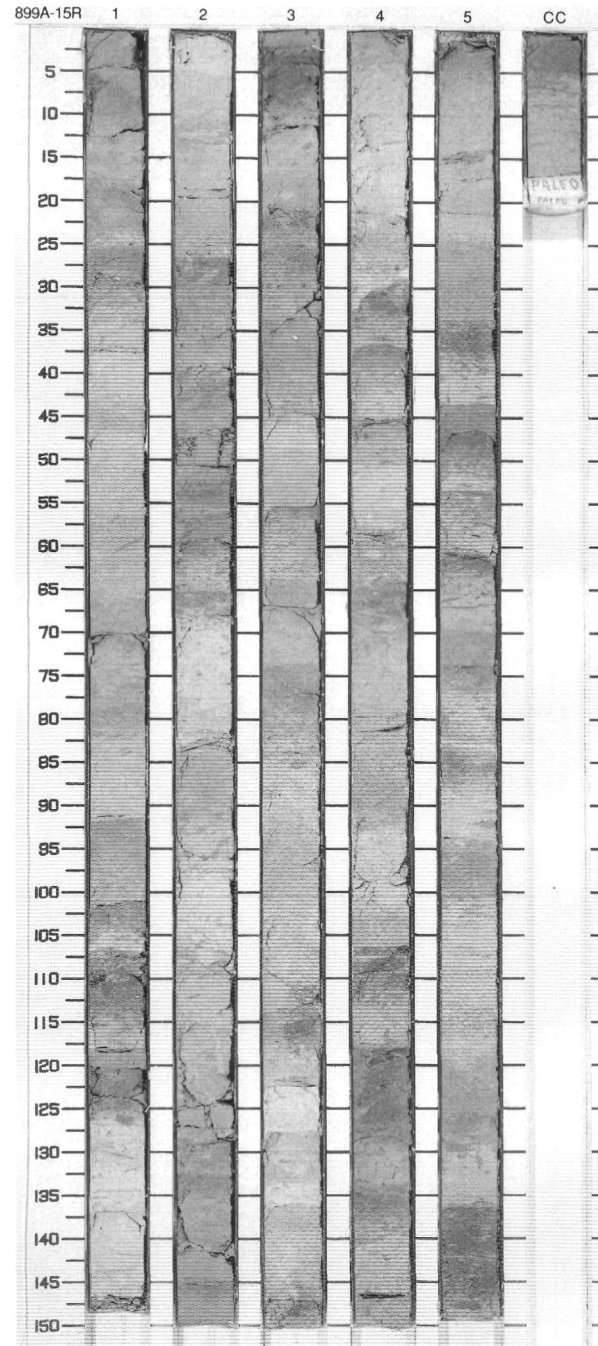
CORED 206.6 - 216.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	middle Miocene	[Wavy pattern]		P	5GY 7/1 To 5GY 2/1	<p>NANNOFOSSIL CLAYSTONE and SILTY NANNOFOSSIL CLAYSTONE</p> <p>Major Lithologies: SILTY NANNOFOSSIL CLAYSTONE is greenish gray in color (5GY 5/1) and forms 53% of the core; it contains significant amounts of siliceous microfossils. NANNOFOSSIL CLAYSTONE is light greenish gray (5GY 7/1) in color and forms 41% of the core.</p> <p>Minor Lithology: SILTY SANDSTONE is light greenish gray (5GY 7/1) in color and forms 6% of the core.</p> <p>General Description: Upwards-darkening sequences between 10 and 20 cm thick occur throughout the core. Many of them have thin (0.5-4 cm) SILTY SANDSTONES at their bases which sometimes form the bases of normally graded sequences, but some have sharp tops. Many sequences begin with NANNOFOSSIL CLAYSTONE and are overlain by SILTY NANNOFOSSIL CLAYSTONE; the two lithologies are mixed by bioturbation and contain Zoophycos, Planolites, and Chondrites.</p>
2	[Hatched pattern]	2		[Wavy pattern]		S		
3	[Hatched pattern]	3		[Wavy pattern]		P		
4	[Hatched pattern]	3		[Wavy pattern]		M		



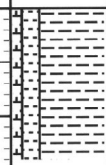
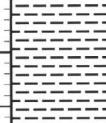
SITE 899 HOLE A CORE 15R CORED 216.3 - 225.9 mbsf

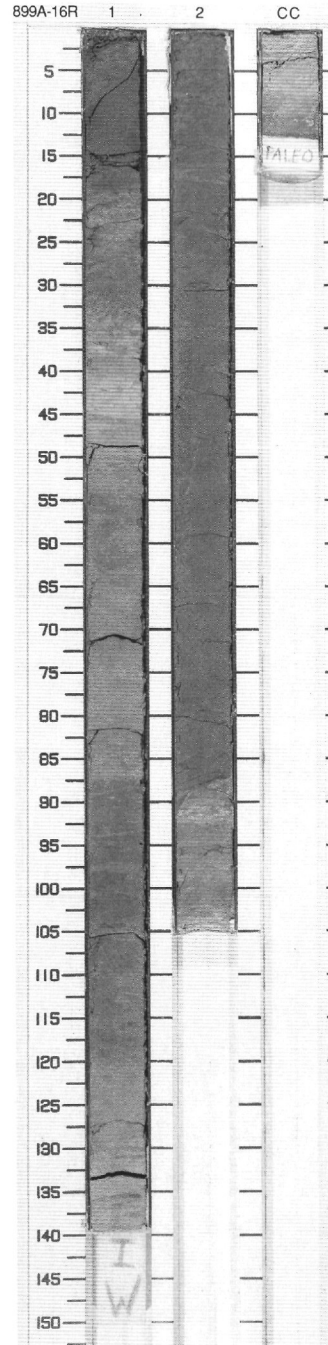
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1	middle Miocene-early Miocene	[Symbol]		S	5GY 5/1 To 5GY 2/1	<p>NANNOFOSSIL CLAYSTONE and SILTY CLAYSTONE</p> <p>Major Lithologies: NANNOFOSSIL CLAYSTONE is light greenish gray in color (5GY 7/1) and forms 68% of the core. SILTY CLAYSTONE is greenish gray (5GY 5/1) in color and forms 30% of the core; it contains significant quantities of sponge spicules and other siliceous fossils.</p> <p>Minor Lithologies: SILTY FORAMINIFERAL SANDSTONE is light greenish gray (5GY 5/1) in color and forms 2% of the core. It occurs in thin (0.5-4 cm) intervals which have sharp bases and tops. Some of these show ripple cross laminae (sometimes with scoured bases) or planar laminae which contain thin claystone laminae in some intervals. NANNOFOSSIL CHALK occurs in Section 2, 0-4 cm.</p> <p>General Description: Much of the core shows upwards-darkening sequences (10-30 cm thick) many of which commence with SILTY FORAMINIFERAL SANDSTONE. The sequences are dominated by a lower, usually sharp-based, interval of NANNOFOSSIL CLAYSTONE overlain and burrow mottled with SILTY CLAYSTONE. In places, these two lithologies alternate and show burrow mottled bases and tops. Zoophycos, Planolites, Chondites, (?Thalassinoides, and massive burrows are common.</p>
2	[Pattern]	2		[Symbol]		S		
3	[Pattern]	3		[Symbol]		P		
4	[Pattern]	4		[Symbol]		P		
5	[Pattern]	5		[Symbol]		P		
6	[Pattern]	6		[Symbol]		W		
7	[Pattern]	7		[Symbol]		P		
8	[Pattern]	8		[Symbol]		M		
9	[Pattern]	9		[Symbol]				
10	[Pattern]	10		[Symbol]				



SITE 899 HOLE A CORE 16R

CORED 225.9 - 235.5 mbsf

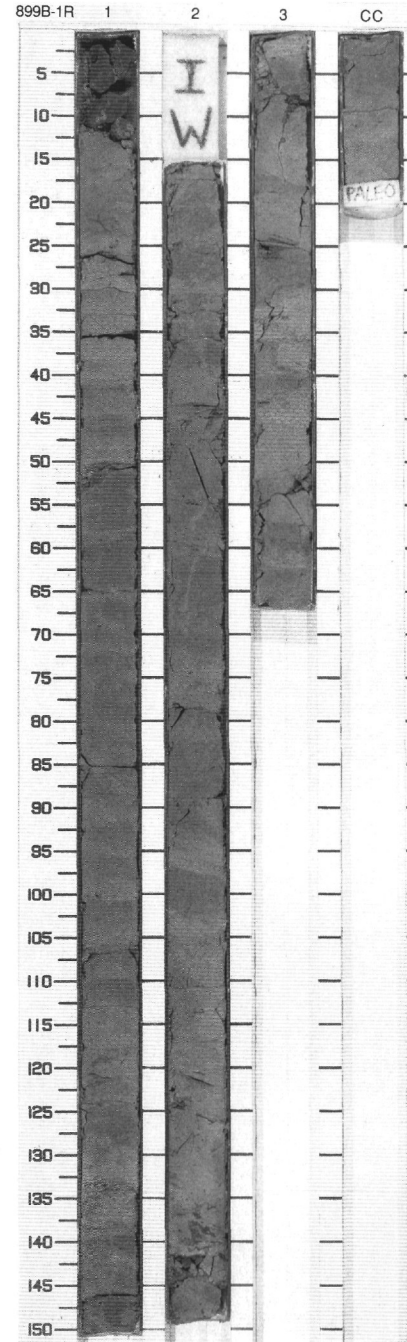
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	early Miocene	}}	/ / / / /	S	5GY 4/1 To 5G 6/1	<p>SILTY CLAYSTONE</p> <p>Major Lithology: Dark greenish gray (5GY 4/1) to light olive gray (5Y 5/2) SILTY CLAYSTONE makes up about 85% of the core.</p> <p>Minor Lithology: Olive gray (5Y 4/1) to greenish gray (5G 6/1) NANNOFOSSIL CLAYSTONE makes up about 15% of the core.</p> <p>General Description: Sands are absent in this core. Additionally, a distinct color change from greenish to olive gray colors begins in Section 1, 88 cm. Most of Section 2 is light olive gray in color. The core consists largely of lithological couplets with NANNOFOSSIL CLAYSTONE at the base and silty claystone at the top. Planolites, Chondrites, and Zoophycos are the common trace fossils, which appear to be larger than in previous cores (e.g. Zoophycos ranges up to 1 cm in width).</p>
2		2				I	S	
		CC				M		



SITE 899 HOLE B CORE 1R

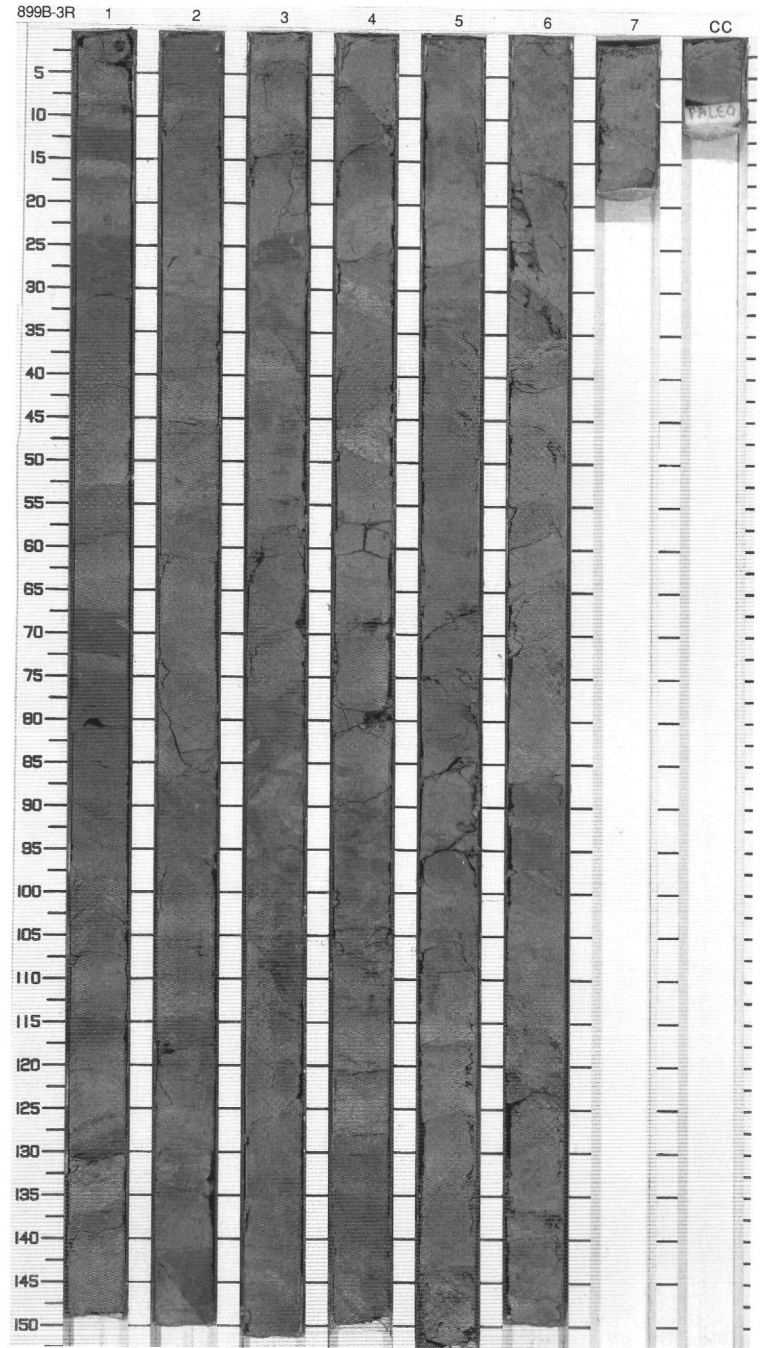
CORED 230.5 - 234.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	early Miocene	}}		S P	5GY 5/1 To 5GY 4/1	<p>CLAYSTONE WITH SILT</p> <p>Major Lithology: Greenish gray (5GY 6/1, 5/1; 5G 6/1, 5/1) CLAYSTONE WITH SILT forms 99% of the core and contains around 15% silt.</p> <p>Minor Lithology: SILTSTONE shows similar colors to the major lithology and occurs as thin (1-5 mm) layers in Section 1, with one layer in Section 2, 123 cm; it forms about 1% of the core.</p> <p>General Description: In addition to the SILTSTONE layers within CLAYSTONE WITH SILT, Section 1 shows thin color banding (olive gray (5Y 4/1) to greenish gray (5GY 5/1). The remaining Sections contain greenish gray (5G 5/1, 6/1) CLAYSTONE WITH SILT, with a few lighter intervals (up to 8 cm thick) showing burrow mottling.</p>
2	[Hatched pattern]	2					5GY 5/1 To 5GY 6/1	
3	[Hatched pattern]	3					5G 5/1	
		CC				M		



SITE 899 HOLE B CORE 3R CORED 244.4 - 254.0 mbsf

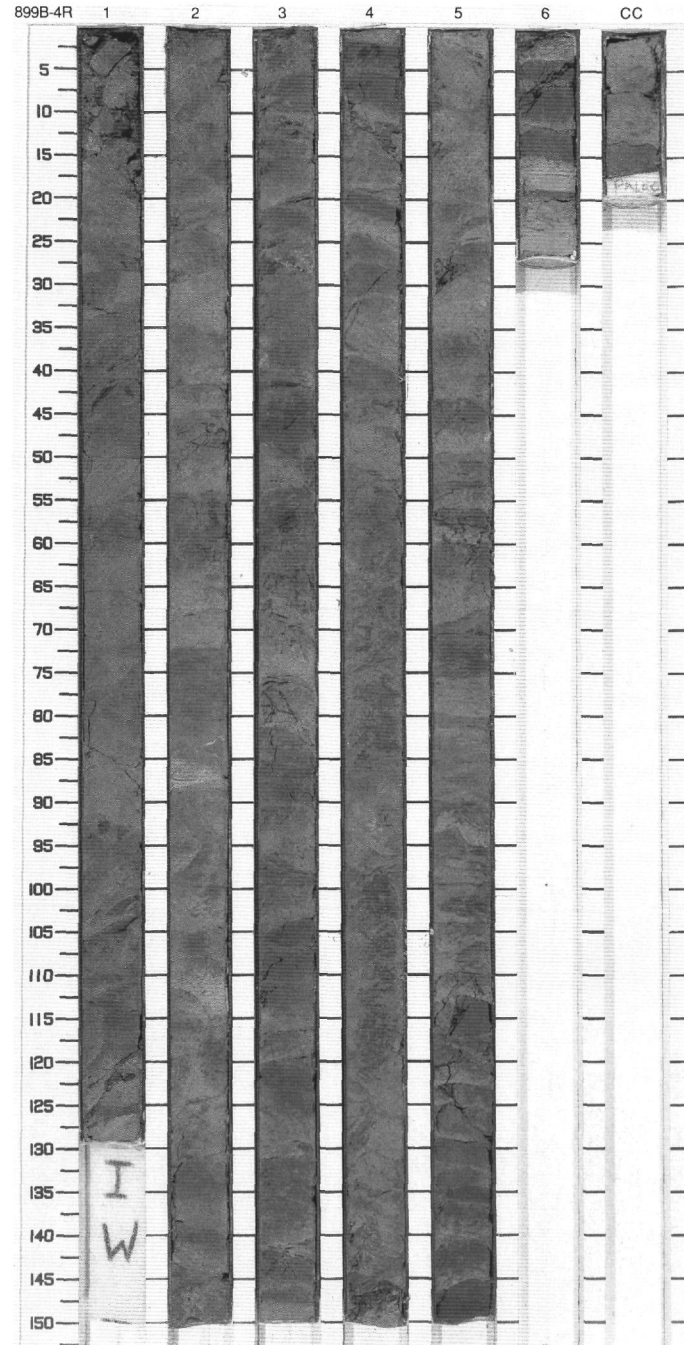
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1	early Miocene	[Symbol]	[Symbol]	P	5G 4/1 To 5G 5/1	CLAYSTONE Major Lithology: Dark greenish gray (5G 4/1) CLAYSTONE forms about 85% of the core, and olive gray (5Y 4/1) CLAYSTONE about 5%. Minor Lithology: Greenish gray (5G 6/1) NANNOFOSSIL CLAYSTONE comprises about 5% of the core, but mostly occurs in Section 1. General Description: Most of the core consists of faintly burrow mottled CLAYSTONE, but in places (particularly in Section 1) a clearly defined ichnofauna of Chondrites and Zoophycos with possible Planolites is visible. Couplets (5-30 cm thick) of lighter and darker CLAYSTONE occur in Section 1 and sporadically in the rest of the core. Some intervals show dipping strata: the maximum dip observed was 25 degrees.
2	[Pattern]	2		[Symbol]	[Symbol]	P		
3	[Pattern]	3		[Symbol]	[Symbol]	S		
4	[Pattern]	4		[Symbol]	[Symbol]	S		
5	[Pattern]	5		[Symbol]	[Symbol]	P		
6	[Pattern]	6		[Symbol]	[Symbol]	P		
7	[Pattern]	7		[Symbol]	[Symbol]	P		
8	[Pattern]	8		[Symbol]	[Symbol]	P		
9	[Pattern]	9		[Symbol]	[Symbol]	M		



SITE 899 HOLE B CORE 4R

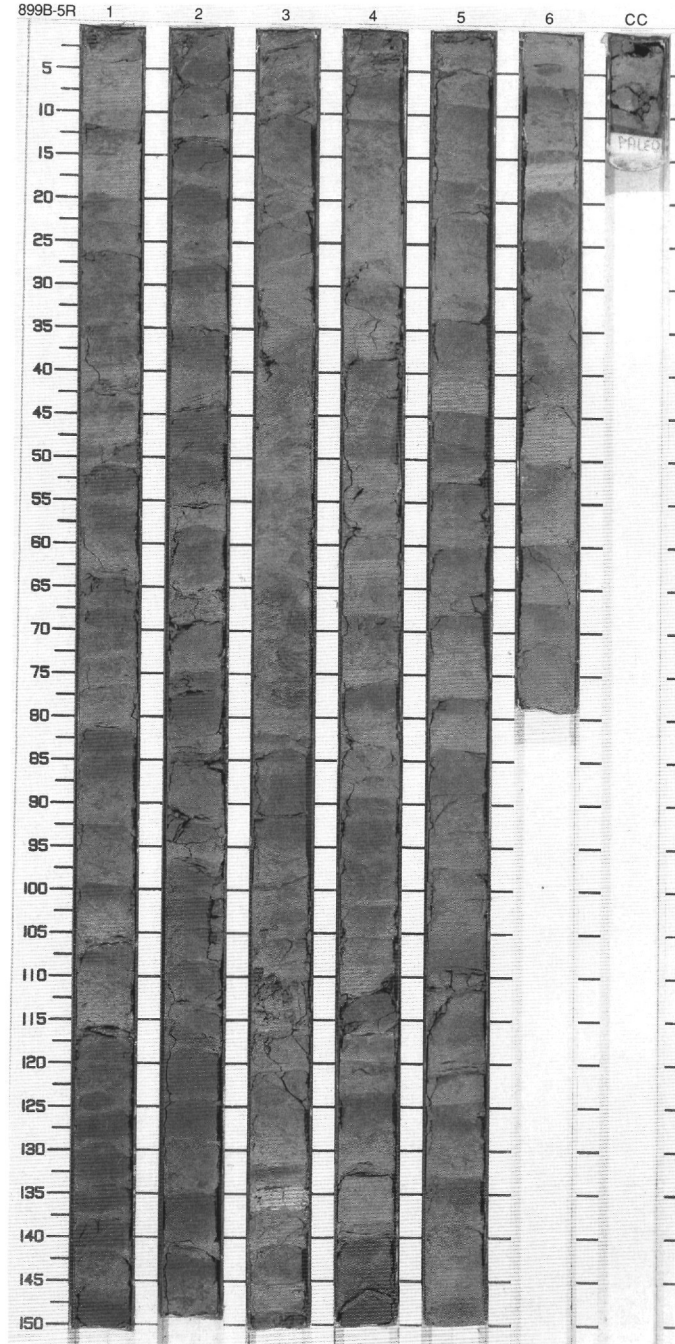
CORED 254.0 - 263.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	early Miocene		---	S	5G 4/1 To 10Y 4/2	<p>CLAYSTONE WITH SILT</p> <p>Major Lithology: Dark greenish gray (5G 4/1) to dark grayish olive (10Y 4/2) CLAYSTONE WITH SILT makes up about 85% of the core.</p> <p>Minor Lithologies: Light olive gray (5Y 6/1) NANNOFOSSIL CLAYSTONE comprises about 14% of the core. Light olive gray (5Y 6/1) to olive gray (5Y 6/1) to greenish gray (5GY 6/1) CALCAREOUS SILTY SAND and light olive gray (5Y 6/1) FORAMINIFERAL SANDSTONE together constitute about 1% of the core. The FORAMINIFERAL SANDSTONE occurs only in Section 2.</p> <p>General Description: Core disturbance disrupts stratigraphic relationships and makes it difficult to estimate lithological proportions. Upwards-darkening sequences, ranging from 5-8 cm in thickness and typically consisting of a basal light olive gray NANNOFOSSIL CLAYSTONE overlain by a dark grayish olive CLAYSTONE WITH SILT, occur in undisturbed regions of the core. Trace fossils observed include Planolites, Chondrites, and Zoophycos.</p>
2	[Hatched pattern]	2				P		
3	[Hatched pattern]	3				P		
4	[Hatched pattern]	4				P		
5	[Hatched pattern]	5				P		
6	[Hatched pattern]	6				P		
7	[Hatched pattern]	6				M		



SITE 899 HOLE B CORE 5R CORED 263.7 - 273.4 mbsf

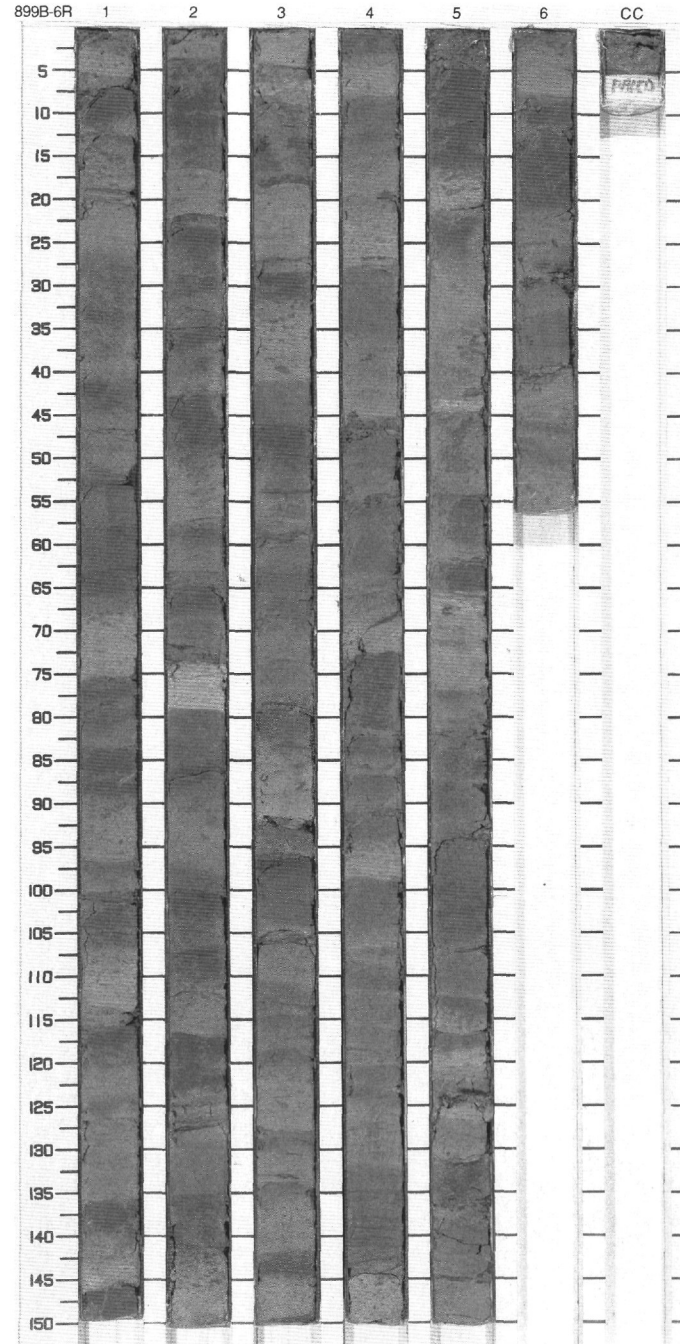
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	early Miocene	}}		P	5GY 5/1 To 5Y 6/1	<p>CLAYSTONE WITH SILT</p> <p>Major Lithology: Greenish gray (5GY 5/1) to olive gray (5Y6/1) CLAYSTONE WITH SILT forms 80% of the core.</p> <p>Minor Lithologies: NANNOFOSSIL CLAYSTONE is light olive gray (5Y 5/1, 6/1) in color, and forms about 15% of the core. CLAYEY SANDY SILTSTONE is light olive gray (5Y 5/1, 6/1) in color and forms about 15/5 of the core, but occurs in higher proportions in Sections 1, 4, and 5. NANNOFOSSIL CLAYSTONE WITH SILT is light gray (N7) in color and occurs in Section 3, 133–136 cm.</p> <p>General Description: Upwards-darkening sequences, ranging in thickness from 5 to 10 cm, consist of NANNOFOSSIL CLAYSTONE overlain by CLAYSTONE WITH SILT. An ichnofauna of Chondrites, Planolites, and Zoophycos occurs at the transition between the two lithologies. Many of the sequences, particularly in Sections 1 and 2, contain basal intervals (1–5 mm thick) of CLAYEY SANDY SILTSTONE, within which parallel lamination is usually disturbed by drilling; occasionally small scale cross-stratification is also present. A possible slumped interval occurs in Section 3, 30–80 cm, but it may have resulted from drilling disturbance.</p>
2	[Hatched pattern]	2		}}		S S S		
3	[Hatched pattern]	3		}}		P		
4	[Hatched pattern]	3		}}		P		
5	[Hatched pattern]	4		}}		S		
6	[Hatched pattern]	5		}}		P		
7	[Hatched pattern]	6	}}		P			
8	[Hatched pattern]	CC	}}		M			



SITE 899 HOLE B CORE 6R

CORED 273.4 - 283.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	early Miocene	}}		S	5GY 6/1 To 5GY 4/1	<p>NANNOFOSSIL CLAYSTONE and SILTY CLAYSTONE</p> <p>Major Lithologies: Greenish gray (5GY 6/1) NANNOFOSSIL CLAYSTONE makes up about 55% of the core, and dark greenish gray (5GY 4/1) SILTY CLAYSTONE forms about 37%.</p> <p>Minor Lithology: Light greenish gray (5GY 6/1) very fine-grained FORAMINIFERAL SILTY SANDSTONE forms about 8% of the core.</p> <p>General Description: Thin- to medium-bedded (5 to 15 cm), upwards-darkening sequences consist of pervasively bioturbated greenish gray NANNOFOSSIL CLAYSTONE which grades up into dark greenish gray SILTY CLAYSTONE. Very thin (0.5 to 3 cm) basal intervals of greenish gray FORAMINIFERAL SILTY SANDSTONE are common. The transition from the basal FORAMINIFERAL SILTY SANDSTONE to the NANNOFOSSIL CLAYSTONE is usually characterized by lenticular or parallel lamination involving both lithologies. Thicker FORAMINIFERAL SILTY SANDSTONE beds have sharp tops and bases.</p>
2	[Hatched pattern]	2		}}				
3	[Hatched pattern]	3		}}		P		
4	[Hatched pattern]	4		}}				
5	[Hatched pattern]	5		}}		S P		
6	[Hatched pattern]	6		}}				
7	[Hatched pattern]	7	}}		P			
8	[Hatched pattern]	8	}}				S	
		CC						M



SITE 899 HOLE B CORE 7R

CORED 283.0 - 292.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]			~		P		<p>Major Lithologies: Light greenish gray (GY 6/1) NANNOFOSSIL CLAYSTONE makes up about 45% of the core. Dark greenish gray SILTY CLAYSTONE makes up 47% of the core.</p> <p>Minor Lithology: Light greenish gray (5GY 6/1) FORAMINIFERAL SILTY SANDSTONE makes up about 8% of the core.</p> <p>General Description: Thin- to medium-bedded (5 to 15 cm) upwards darkening sequences occur throughout the core. They consist of pervasively bioturbated greenish gray NANNOFOSSIL CLAYSTONE grading up into dark greenish gray SILTY CLAYSTONE. Very thin (0.5 to 5 cm) basal intervals of greenish gray FORAMINIFERAL SILTY SANDSTONE are common. The transition from the basal FORAMINIFERAL SILTY SANDSTONE to the NANNOFOSSIL CLAYSTONE is characterized by lenticular or parallel lamination involving both lithologies. Thicker FORAMINIFERAL SILTY SANDSTONE beds have sharp tops and bases. Dark manganese-rich laminae occur from Section 3 to the base of the core. The core is moderately biscuited and some SANDSTONE intervals may have been lost during drilling. A slump bed involving all the lithologies occurs at Section 4, 80-110 cm.</p>
2	[Pattern]			~		S		
3	[Pattern]			~		P		
4	[Pattern]			~		P		
5	[Pattern]			~		P		
6	[Pattern]			~		S P		
7	[Pattern]			~		S		
		CC				M P		

