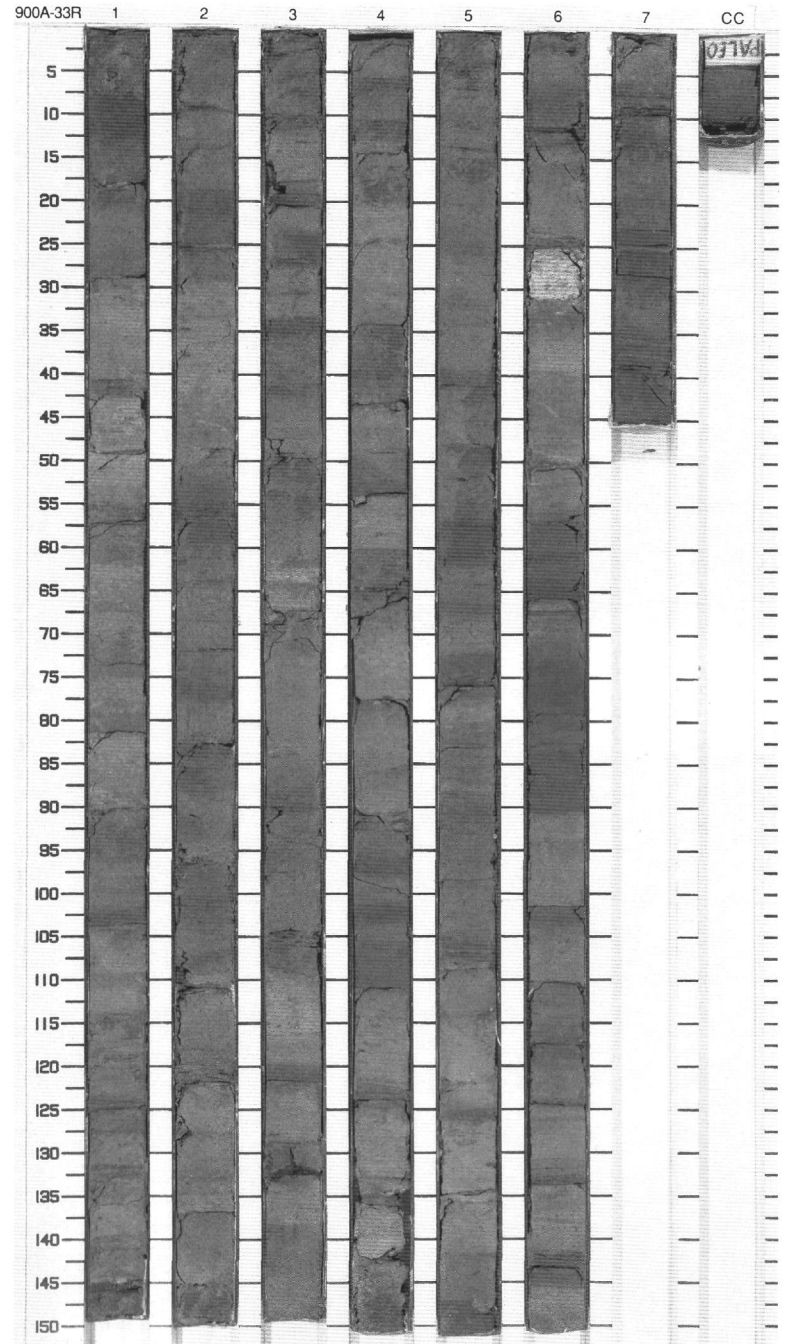


SITE 900 HOLE A CORE 33R

CORED 296.0 - 305.6 mbsf

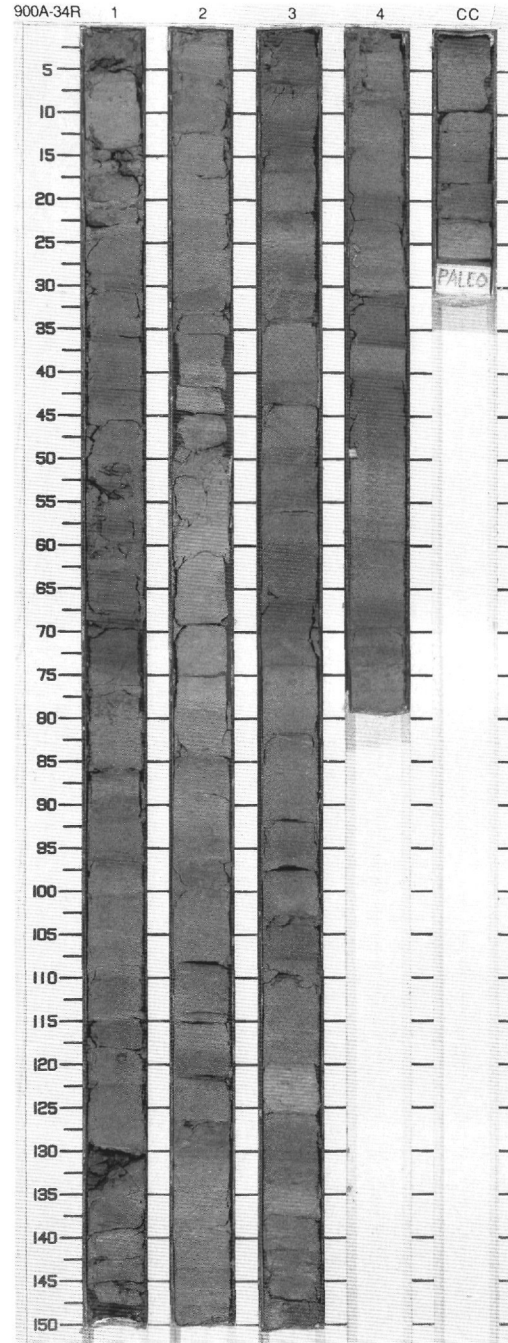
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	early Miocene	[Symbol]	[Symbol]	P	5GY 4/1 To 5GY 6/1	<p>CLAYSTONE, CLAYSTONE WITH SILT, and NANNOFOSSIL CLAYSTONE</p> <p>Major Lithologies: CLAYSTONE to CLAYSTONE with SILT is dark greenish gray (5GY 4/1) and forms 60% of the core. Medium bluish gray (5B 5/1) NANNOFOSSIL CLAYSTONE forms 30% of the core.</p> <p>Minor Lithologies: SANDY SILTSTONE is olive gray (5Y 4/1) in color and forms around 8% of the core. Light greenish gray (5GY 6/1) NANNOFOSSIL CHALK occurs in Section 4, 123 to 141 cm.</p> <p>General Description: Upwards-darkening sequences, ranging between 5 to 20 cm in thickness, are sharp-based and occur throughout the core. They consists of basal SANDY SILTSTONE, followed by SILTY CLAYSTONE capped by NANNOFOSSIL CLAYSTONE. Burrowing is common and Zoophycos is present throughout the core.</p>
2	[Symbol]	2		[Symbol]	[Symbol]	P		
3	[Symbol]	3		[Symbol]	[Symbol]	P		
4	[Symbol]	4		[Symbol]	[Symbol]	S		
5	[Symbol]	5		[Symbol]	[Symbol]	S		
6	[Symbol]	6		[Symbol]	[Symbol]	P		
7	[Symbol]	7		[Symbol]	[Symbol]	P		
8	[Symbol]	8		[Symbol]	[Symbol]	S		
9	[Symbol]	9		[Symbol]	[Symbol]	S		
CC	[Symbol]	CC				M		



SITE 900 HOLE A CORE 34R

CORED 305.6 - 315.3 mbsf

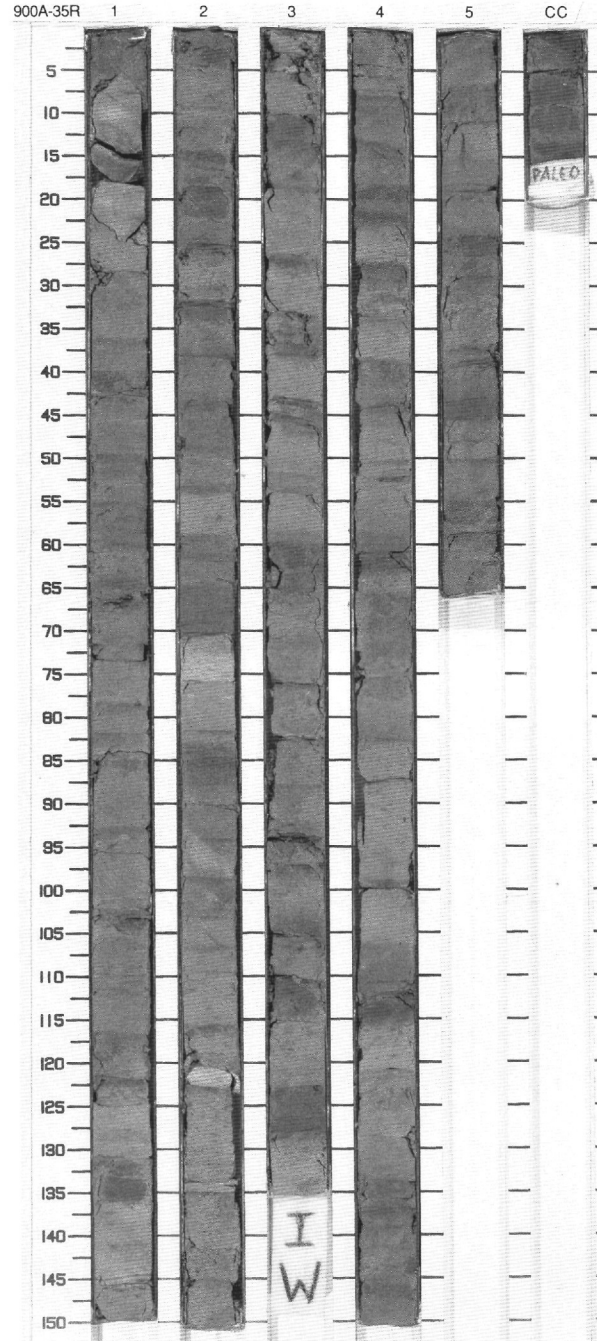
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1	early Miocene	~	/ / / / /	P	5G 4/1 To 5G 6/1	<p>SILTY CLAYSTONE and NANNOFOSSIL CLAYSTONE</p> <p>Major Lithologies: Dark greenish gray (5G 4/1) SILTY CLAYSTONE forms 50% of the core, and light gray (N7) to greenish gray (5G 6/1) NANNOFOSSIL CLAYSTONE 45%.</p> <p>Minor Lithologies: Olive gray (5Y 4/1) CLAYSTONE WITH NANNOFOSSILS forms 3% of the core, and olive gray (5Y 4/1) to greenish gray (5GY 6/1) SANDSTONE 2%.</p> <p>General Description: Upwards-darkening sequences, 5–12 cm thick, commonly occur and they consist of NANNOFOSSIL CLAYSTONE overlain by SILTY CLAYSTONE. Lenticular to continuous SANDSTONE intervals up to 3 cm thick locally underlie the NANNOFOSSIL CLAYSTONE. CLAYSTONE WITH NANNOFOSSILS is generally associated with SANDSTONES. The SANDSTONE intervals exhibit sharp bases and some sharp tops and usually consist of thin (1–2 mm thick) laminae interlayered with relatively clay-rich laminae. A well-lithified, calcite-cemented fine SANDSTONE is present in Section 2, 41–48 cm. It is laminated and appears normally graded. CLAYSTONES above and below the SANDSTONE are more indurated than normal. Zoophycos and Chondrites and, possibly, Planolites occur in the core. The olive gray CLAYSTONE is less common in this core than in previous cores.</p>
2	[Pattern]	2		~				
3	[Pattern]	3		~				
4	[Pattern]	4		~				
5	[Pattern]	CC		~				



SITE 900 HOLE A CORE 35R

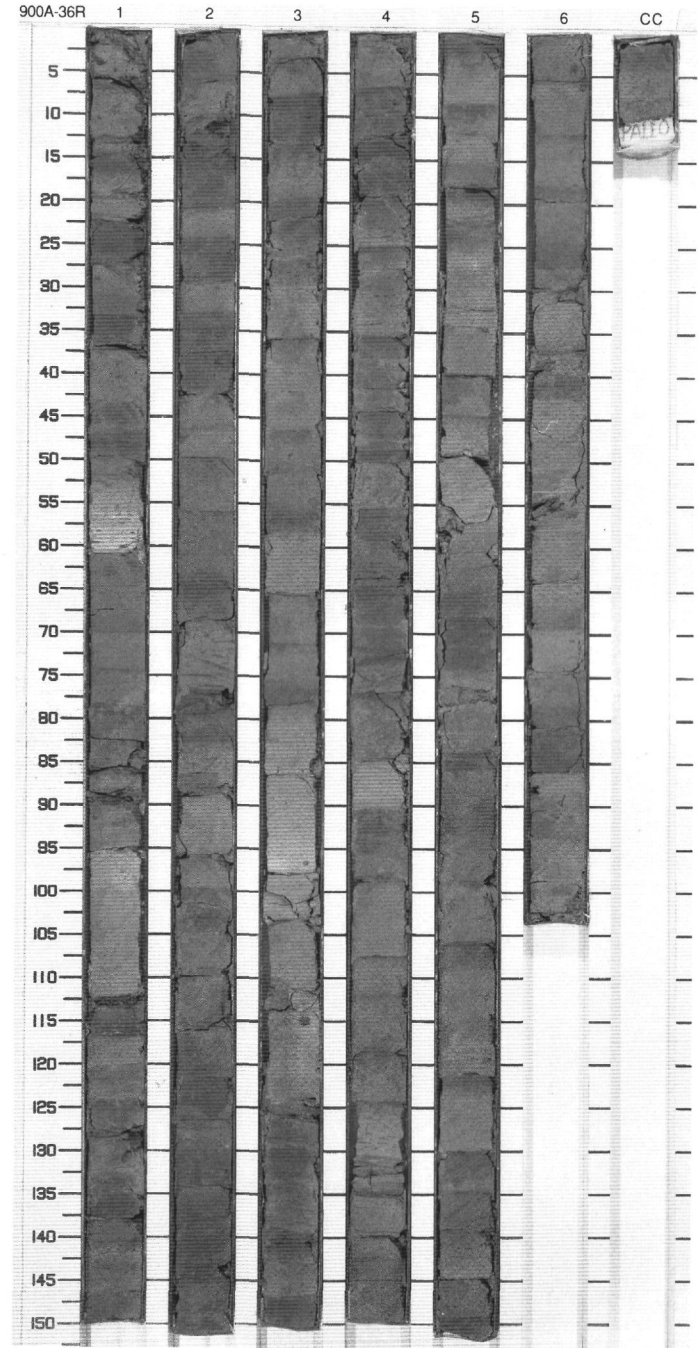
CORED 315.3 - 324.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1	early Miocene	[Symbol]	[Symbol]	S	P	<p>CLAYSTONE and SILTY CLAYSTONE</p> <p>Major Lithologies: SILTY CLAYSTONE is greenish gray (5GY 5/1) in color and forms around 45% of the core. Indurated greenish gray (5GY 5/1) to dark greenish gray (5GY 4/1) CLAYSTONE forms 43% of the core.</p> <p>Minor Lithologies: Nannofossil- and foraminifera-rich SILTY SANDSTONE is dark greenish gray (5G 4/1) to greenish gray (5G 5/1) in color, and forms 12% of the core.</p> <p>General Description: Upward-darkening, sharp-based sequences, ranging in thickness from 5 to 15 cm, occur throughout the core. The sequence consists of a basal layer of SILTY SANDSTONE, followed by SILTY CLAYSTONE, and in a few places by greenish gray (5G 6/1) NANNOFOSSIL CLAYSTONE (3% of core) whereas CLAYSTONE caps the sequence. The tops of the SANDSTONES may be sharp or gradational. In Section 1 (at 0 to 23 cm) and in Section 3 (at 0 to 5 cm) pieces of very compacted parallel-laminated, calcite-cemented, fine to medium grain-sized SANDSTONE occur. The ichnofauna includes Planolites and Chondrites.</p>
2	[Pattern]	2		[Symbol]	[Symbol]	P		
3	[Pattern]	3		[Symbol]	[Symbol]	S		
4	[Pattern]	3		[Symbol]	[Symbol]	P	5GY 4/1 To 5GY 6/1	
5	[Pattern]	4		[Symbol]	[Symbol]	S		
6	[Pattern]	5		[Symbol]	[Symbol]	P		
		CC				M		



SITE 900 HOLE A CORE 36R CORED 324.9 - 334.5 mbsf

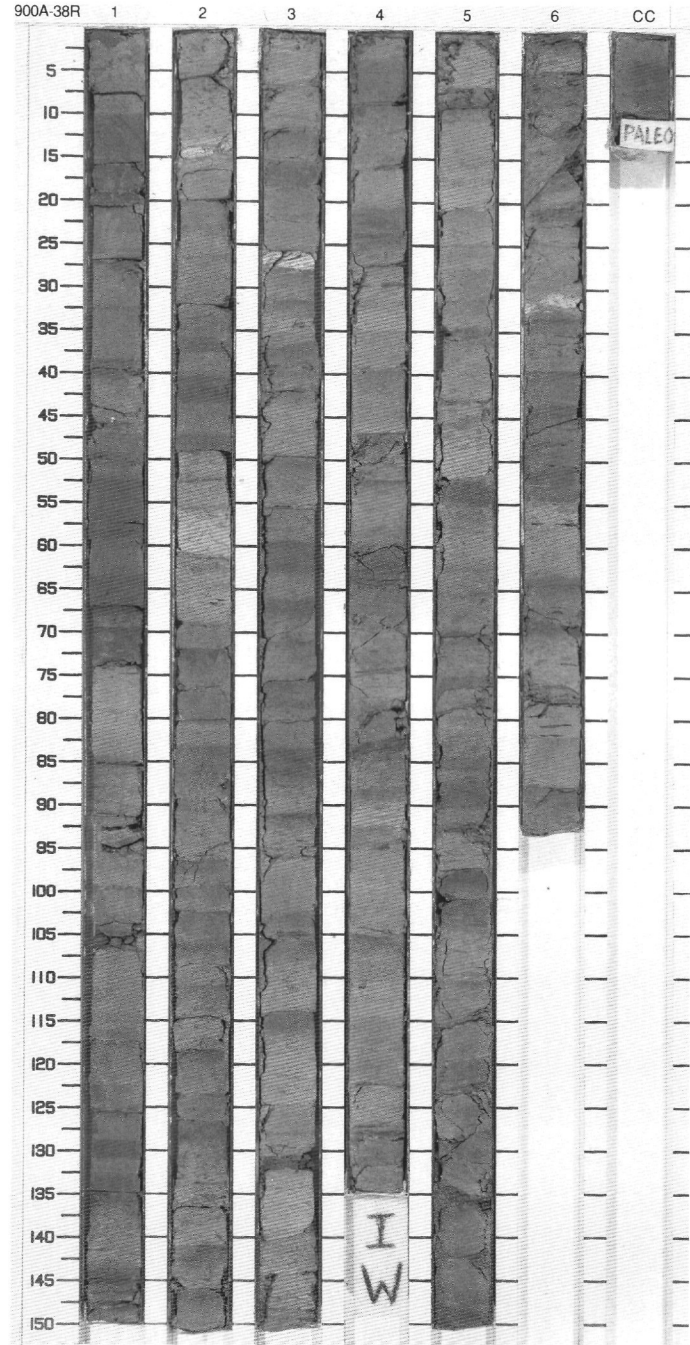
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	early Miocene	[Symbol]	[Symbol]	P	5GY 4/1 To 5GY 6/1	SILTY CLAYSTONE Major Lithology: SILTY CLAYSTONE is dark greenish gray (5GY 4/1) or greenish gray (5GY 6/1) in color, and forms 80% of the core. Minor Lithologies: NANNOFOSSIL CLAYSTONE is greenish gray (5G 6/1) and forms 10% of the core. Foraminifera-rich olive gray (5Y 4/1) SILTY SANDSTONE to SANDSTONE forms 10% of the core. General Description: In general upwards-darkening, sharp-based, normal graded sequences, ranging in thickness from 10 to 20 cm occur throughout the core. Two types of SANDSTONES occur at the bases of single turbidite sequences: unconsolidated SANDSTONE to SILTY SANDSTONE, or highly consolidated, CALCAREOUS SANDSTONE. These are followed by laminated SILTY CLAYSTONES. NANNOFOSSIL CLAYSTONE caps the sequence. Bioturbation is common, but a distinct ichnofauna is not visible.
2	[Symbol]	2		[Symbol]	[Symbol]	S P		
3	[Symbol]	3		[Symbol]	[Symbol]	S P		
4	[Symbol]	4		[Symbol]	[Symbol]	S S P		
5	[Symbol]	5		[Symbol]	[Symbol]	P		
6	[Symbol]	6		[Symbol]	[Symbol]	P S M		



SITE 900 HOLE A CORE 38R

CORED 344.2 - 353.8 mbsf

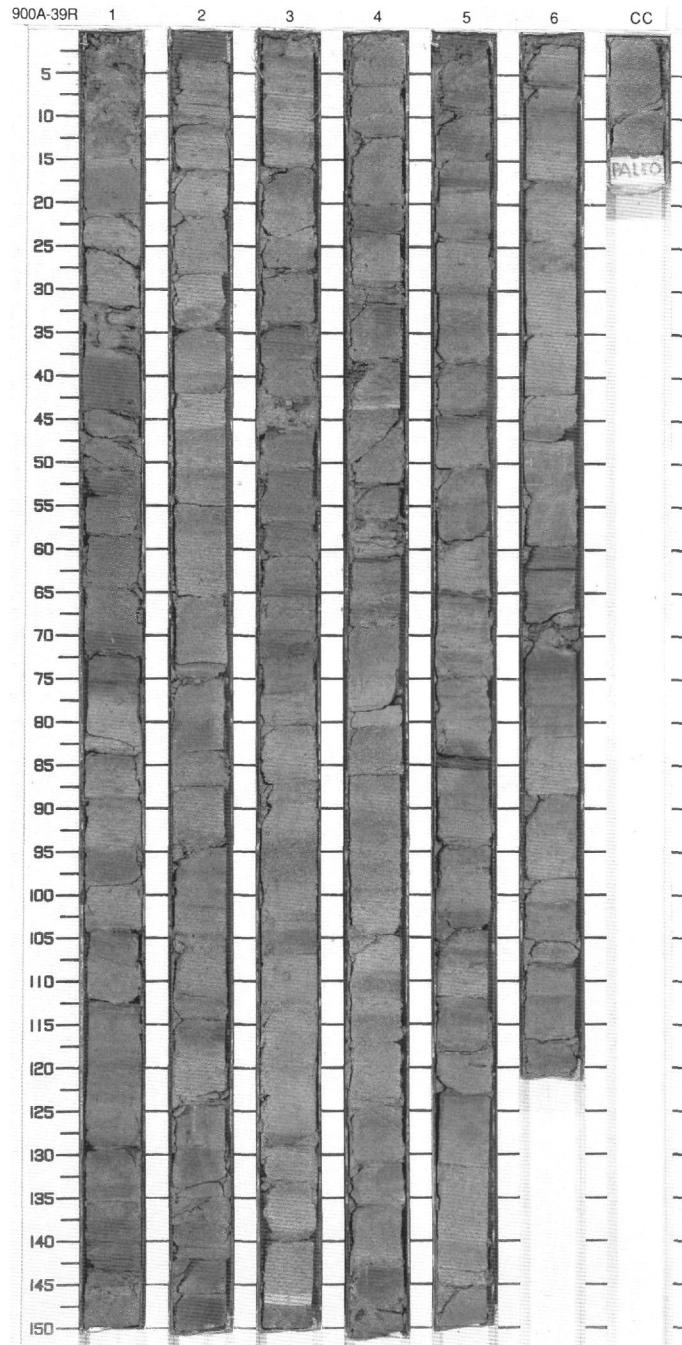
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1	late Oligocene			P		<p>NANNOFOSSIL SILTSTONE and NANNOFOSSIL CLAYSTONE</p> <p>Major Lithologies: Greenish gray (5G 6/1) to olive gray (5Y 4/1) NANNOFOSSIL SILTSTONE grades continuously into NANNOFOSSIL CLAYSTONE of the same color and so separate estimates of the two lithologies could not be made; together they comprise 78% of the core.</p> <p>Minor Lithologies: Light greenish gray (5G 8/1) to white (N7) NANNOFOSSIL CHALK forms 5% of the core, and greenish gray (5G 6/1) foraminifer- and nannofossil-rich calcite-cemented SANDSTONE 15%.</p> <p>General Description: Two types of sequence occur. One commences with a basal calcite-cemented, foraminifer-rich SANDSTONE, overlain by highly bioturbated NANNOFOSSIL CHALK. The other consists of a basal unconsolidated foraminifer-rich SANDSTONE, followed by NANNOFOSSIL SILTSTONE capped by NANNOFOSSIL CLAYSTONE.</p>
2	[Pattern]	2		Mn		S P S		
3	[Pattern]	3				S P		
4	[Pattern]	4		Mn		P	5G 6/1 To 5G 4/1	
5	[Pattern]	5				I P		
6	[Pattern]	6		Mn		P		
CC	[Pattern]	CC		Mn		S M		



SITE 900 HOLE A CORE 39R

CORED 353.8 - 363.5 mbsf

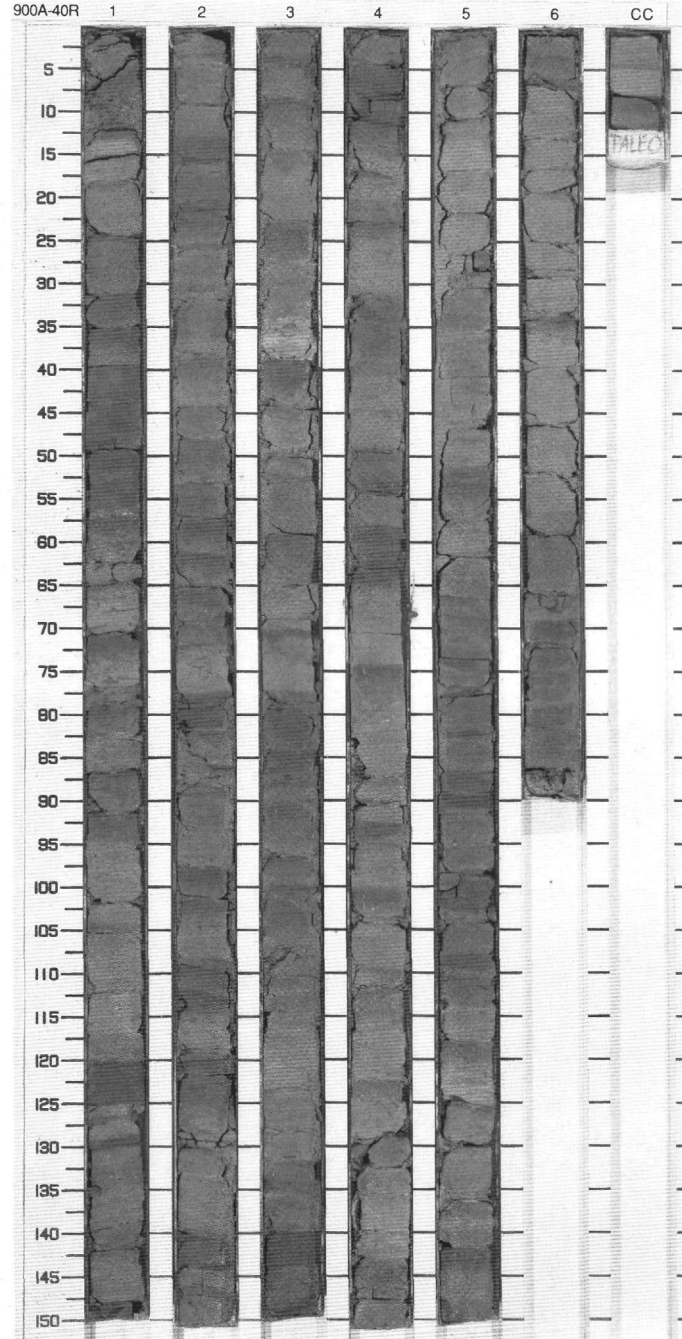
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1	late Oligocene	Mn	~	P	5G 4/1 To 5G 6/1	<p>NANNOFOSSIL CLAYSTONE WITH SILT and SANDSTONE</p> <p>Major Lithologies: Greenish gray (5G 6/1) NANNOFOSSIL CLAYSTONE with SILT forms 70% of the core, and greenish gray (5G 6/1) foraminifer-rich SANDSTONE 20%.</p> <p>Minor Lithologies: Dark greenish gray (5G 4/1) CLAYSTONE with SILT/SILTY CLAYSTONE forms 8% of the core. NANNOFOSSIL CHALK is present in Section 2, 140-145 cm.</p> <p>General Description: Upwards-darkening, sharp-based sequences, between 10 to 20 cm thick, contain a basal SANDSTONE, overlain by NANNOFOSSIL CLAYSTONE with SILT which grades into NANNOFOSSIL CLAYSTONE.</p>
2	[Pattern]	2				P		
3	[Pattern]	3				S		
4	[Pattern]	4			Mn	P		
5	[Pattern]	5				P		
6	[Pattern]	6				P		
7	[Pattern]	7		Mn				
8	[Pattern]	8		Mn				
9	[Pattern]	9						
10	[Pattern]	10						
11	[Pattern]	11						
12	[Pattern]	12						
13	[Pattern]	13						
14	[Pattern]	14						
15	[Pattern]	15						
16	[Pattern]	16						
17	[Pattern]	17						
18	[Pattern]	18						
19	[Pattern]	19						
20	[Pattern]	20						
21	[Pattern]	21						
22	[Pattern]	22						
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143	[Pattern]	143						
144	[Pattern]	144						
145	[Pattern]	145						
146	[Pattern]	146						
147	[Pattern]	147						
148	[Pattern]	148						
149	[Pattern]	149						
150	[Pattern]	150						



SITE 900 HOLE A CORE 40R

CORED 363.5 - 373.2 mbsf

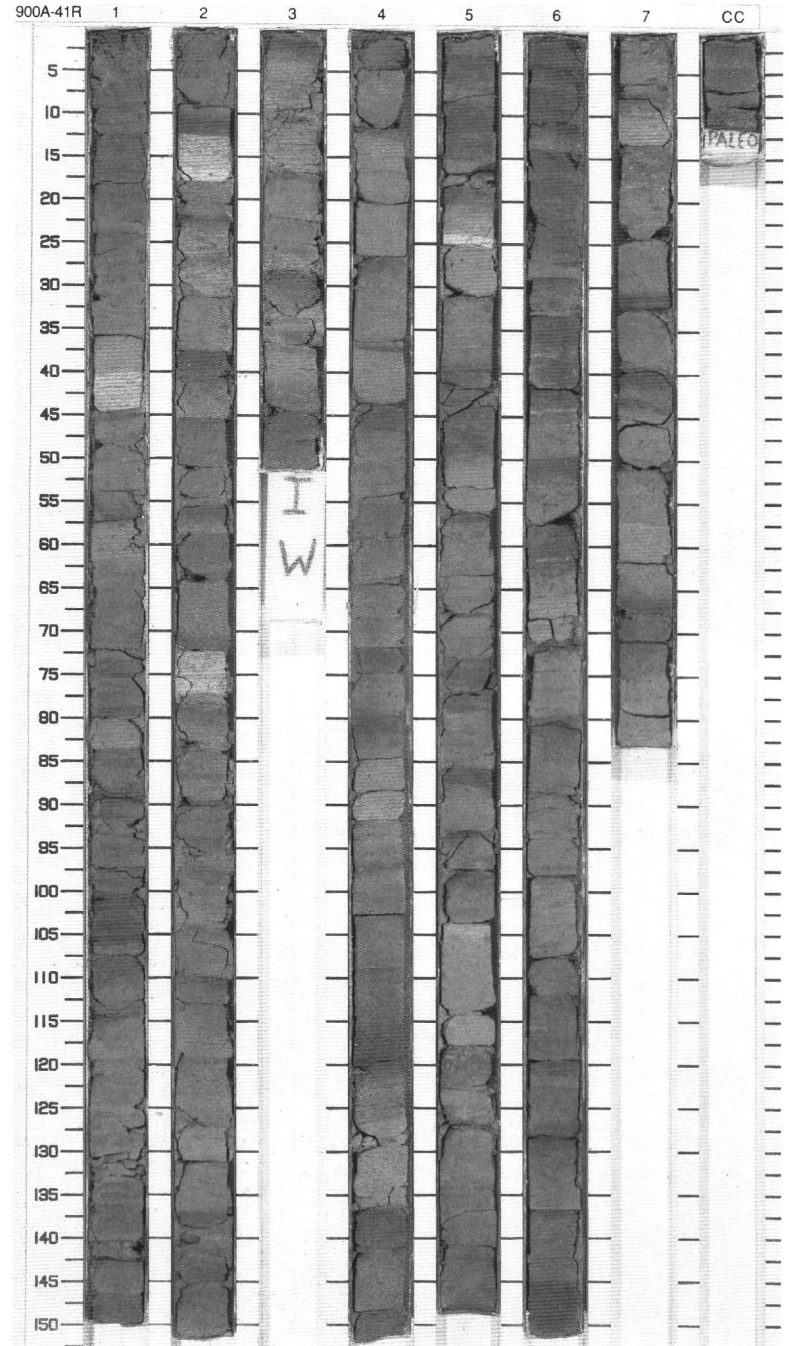
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1	late Oligocene	..	[Disturb]	P	5G 4/1 To 5G 6/1	<p>NANNOFOSSIL SILTY CLAYSTONE and SILTY CLAYSTONE</p> <p>Major Lithologies: Dark greenish gray (5G 4/1) and greenish gray (5G 6/1) NANNOFOSSIL SILTY CLAYSTONE and dark greenish gray (5G 4/1) SILTY CLAYSTONE are intensively mottled and together form almost 90% of the core.</p> <p>Minor Lithology: Foraminifer- and nannofossil-rich greenish gray (5G 6/1) SANDSTONE forms 10% of the core.</p> <p>General Description: The core consists of numerous, slightly darkening- and fining-upwards, sharp-based sequences between 5 to 15 cm thick. They consists of a basal SANDSTONE, overlain by NANNOFOSSIL CLAYSTONE and SILTY CLAYSTONE. Sections 5 to CC are a lighter color (greenish gray, 5G 6/1) and the sediment is more indurated.</p>
1	[Pattern]	1		Mn				
2	[Pattern]	2		Mn				
2	[Pattern]	2		FE				
3	[Pattern]	3		..				
4	[Pattern]	3		..				
5	[Pattern]	4	..	P				
5	[Pattern]	4	.. Mn	S				
6	[Pattern]	5	..	P				
7	[Pattern]	5	..	P				
8	[Pattern]	6	.. Mn	P				
8	[Pattern]	6	.. Mn	P				
8	[Pattern]	CC	..	M				



SITE 900 HOLE A CORE 41R

CORED 373.2 - 382.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Dotted pattern]	1	late Oligocene	}}		P		<p>NANNOFOSSIL CLAYSTONE and CLAYSTONE</p> <p>Major Lithologies: Light gray (N7) and greenish gray (5G 6/1) NANNOFOSSIL CLAYSTONE comprises about 65% of the core and dark greenish gray (5G 4/1) CLAYSTONE 30%.</p> <p>Minor Lithologies: Olive gray (5Y 4/1) to medium gray (N5) CALCAREOUS SANDSTONE forms about 4% of the core and olive gray (5Y 4/1) SILTY CLAYSTONE 1%.</p> <p>General Description: Upwards-darkening and some fining-upward sequences, 5-10 cm thick, occur in this core and consist mostly of NANNOFOSSIL CLAYSTONE overlain by CLAYSTONE. SANDSTONE, up to 4 cm thick, locally underlies the NANNOFOSSIL CLAYSTONE; it is locally calcite-cemented, bioturbated or laminated. The laminae are about 1-2 mm thick.</p>
2	[Dotted pattern]	2		}}		S		
3	[Dotted pattern]	3		}}		P		
4	[Dotted pattern]	4		}}		I		
5	[Dotted pattern]	5		}}		P	5G 4/1 To 5G 6/1	
6	[Dotted pattern]	6		}}		P		
7	[Dotted pattern]	7		}}		P		
8	[Dotted pattern]	8		}}		P		
9	[Dotted pattern]	9		}}		M		



SITE 900 HOLE A CORE 42R

CORED 382.9 - 392.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1		}}	W	P		<p>NANNOFOSSIL SILTSTONE and NANNOFOSSIL CLAYSTONE</p> <p>Major Lithologies: NANNOFOSSIL CLAYSTONE is greenish gray (5GY 6/1) and forms 50% of the core. SILTY CLAYSTONE occurs in two color varieties; the dark greenish gray type forms 35% of the core, and the olive gray (5Y 4/1) variety, which contains nannofossils and biogenic siliceous material, comprises 9%.</p>
2	[Hatched pattern]	2	***	}}		P		
3	[Hatched pattern]	3		}}		P		<p>Minor Lithologies: CALCAREOUS SANDSTONE is very fine to fine-grained, foraminifer-rich, cemented by calcite, and forms about 4% of the core. It occurs as sharp-based beds between 2 and 6 cm thick; the tops of the beds may be sharp or gradational. In the latter case they usually form the bases of normally graded sequences. The beds are usually massive, but some burrows, and faint cross-lamination were observed. NANNOFOSSIL CHALK is light greenish gray (5 8/1) or light gray (N8) in color and forms about 2% of the core.</p>
4	[Hatched pattern]	3	***	}}		P		
5	[Hatched pattern]	4	late Oligocene	}}	W	P	5GY 6/1 To 5GY 4/1	<p>General Description: Upwards-darkening, sharp-based sequences, 5-15 cm thick, occur throughout the core. The majority of the sequences consist of lighter colored SILTY CLAYSTONE overlain by darker SILTY CLAYSTONE. Some sequences include a basal interval composed of olive gray SILTY CLAYSTONE, or CALCAREOUS SANDSTONE. A few sequences commence with a NANNOFOSSIL CLAYSTONE.</p>
6	[Hatched pattern]	4		}}		P		
7	[Hatched pattern]	5		}}		P		
8	[Hatched pattern]	6		}}		P		
	[Hatched pattern]	CC		}}		M		

