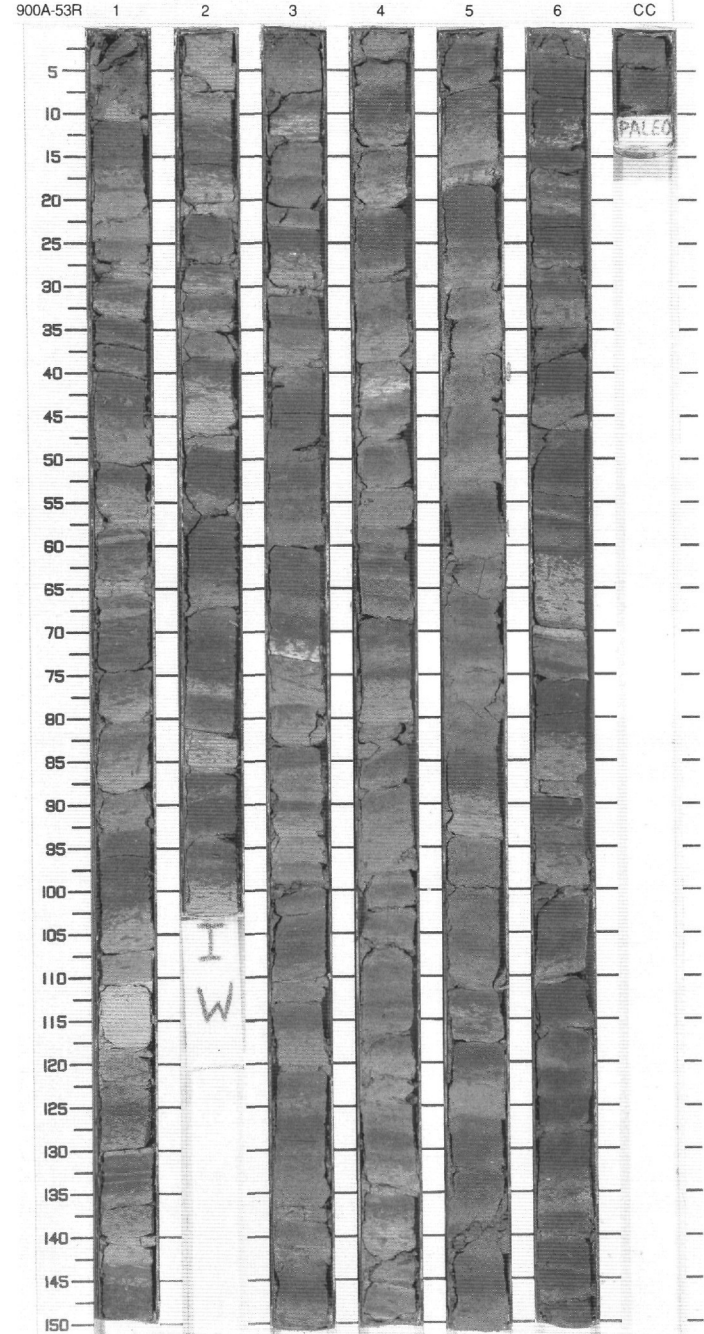


SITE 900 HOLE A CORE 53R

CORED 488.9 - 498.6 mbsf

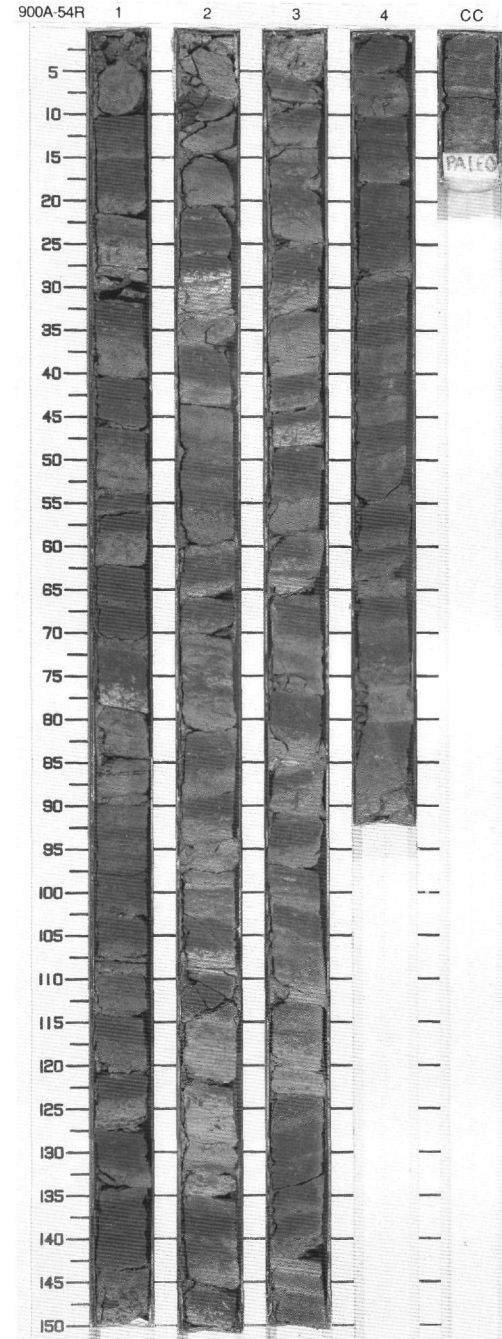
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description	
1	[Dotted pattern]	1	late Eocene	}}		S	5Y 4/1 To 5G 6/1	<p>SILTY CLAYSTONE and CLAYSTONE</p> <p>Major Lithologies: Dark greenish gray (5GY 4/1) to olive gray (5Y 4/1) SILTY CLAYSTONE forms 50% of the core, and greenish gray CLAYSTONE (5G 6/1) 47%.</p> <p>Minor Lithologies: Greenish gray (5G 6/1) SILTSTONE comprises 3% of the core, and light gray (N7) NANNOFOSSIL CLAYSTONE less than 1%.</p> <p>General Description: The core consists of upwards-darkening sequences, 4–10 cm thick, composed of local basal SILTSTONE successively overlain by a CLAYSTONE and SILTY CLAYSTONE. The basal SILTSTONE is laminated to bioturbated, up to 2 cm thick, and contains some claystone laminae where undisturbed. Indistinct banding occurs in some parts of the core (e.g. Section 4, 83–130 cm). Trace fossils identified include Zoophycos, Planolites, and Chondrites. Chondrites are common in some SILTSTONE intervals. The maximum bedding dip measured in the core was 10 degrees.</p>	
2	[Horizontal lines]	2		}}		P			
3	[Dotted pattern]	3		}}		P			
4	[Dotted pattern]	4		}}		S			
5	[Dotted pattern]	5		}}		P			
6	[Dotted pattern]	6		}}		P			
7	[Dotted pattern]			}}					
8	[Dotted pattern]	6		}}		P			
		CC							



SITE 900 HOLE A CORE 54R CORED 498.6 - 508.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Dotted pattern]	1	late Eocene	}}		S S	5Y 2/1 To 5G 5/1	<p>CLAYSTONE WITH SILT</p> <p>Major Lithology: CLAYSTONE WITH SILT forms 90% of the core and occurs in two color varieties (olive gray (5Y 4/1) and greenish gray (5G 5/1) that are present in equal proportions.</p> <p>Minor Lithologies: NANNOFOSSIL CHALK is yellowish gray (5Y 8/1) in color; only four beds (3-5 cm thick) occur in the core, and are situated at the bases of upwards-darkening sequences. Burrows carry down olive brown SILTY CLAYSTONE into the NANNOFOSSIL CHALK. SANDY CLAYSTONE is greenish gray (5GY 5/1) in color and forms about 10% of the core, and it occurs as 0.5-5 cm intervals at the bases of some upwards-darkening sequences. The tops of the SANDY CLAYSTONE beds may be sharp or gradational, and in the latter case the lithology is usually bioturbated.</p> <p>General Description: Upwards-darkening sequences, between 5 and 15 cm thick, occur throughout the core. They consist of a basal lighter colored SILTY CLAYSTONE overlain by a darker interval, which is mixed by burrowing into the lower interval. This transition shows Chondrites, Planolites, and occasional Zoophycos. The bases of the sequences are sharp, and sometimes they contain a basal interval of bluish gray SANDY CLAYSTONE, which often shows densely packed Chondrites. The beds in the core show a maximum dip of about 12 degrees.</p>
2	[Dotted pattern]	2		P				
3	[Dotted pattern]	3		P				
4	[Dotted pattern]	4		P				
5	[Dotted pattern]	CC				M		

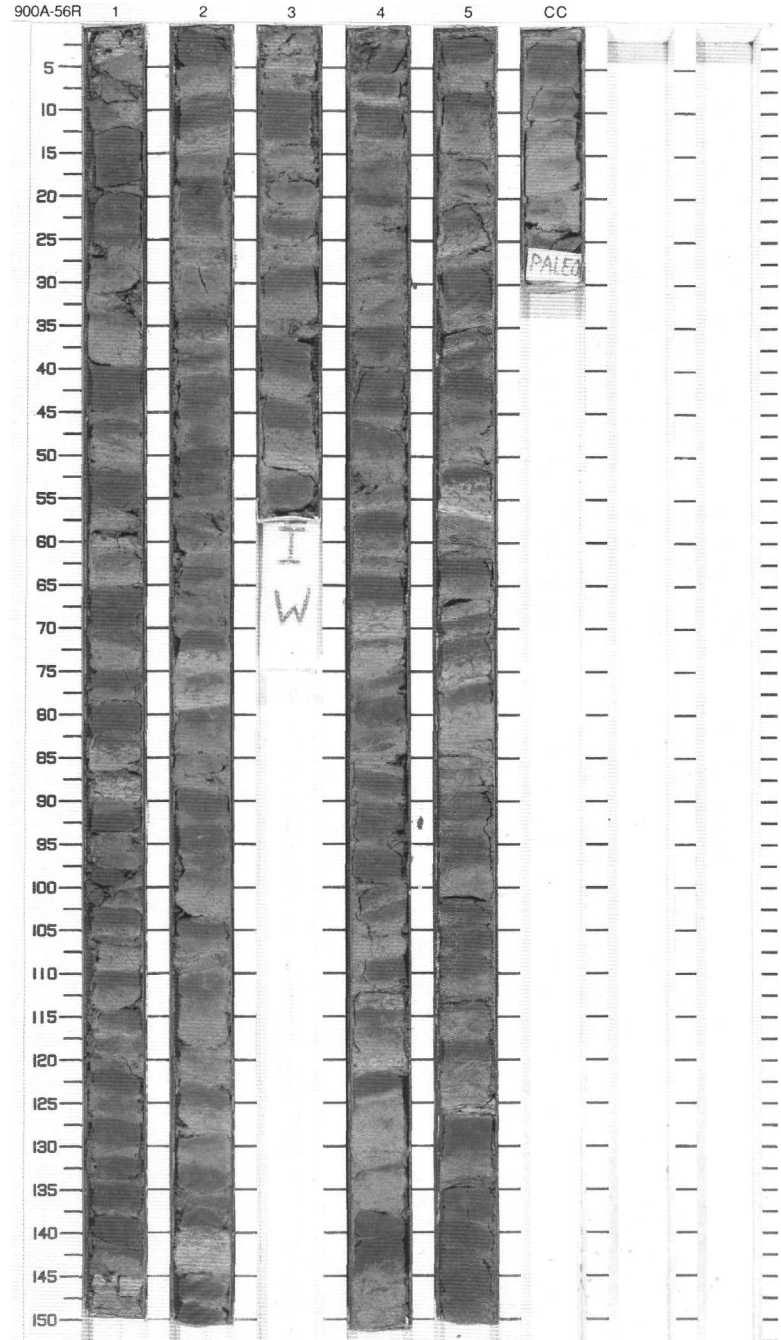
900A-55R NO RECOVERY



SITE 900 HOLE A CORE 56R

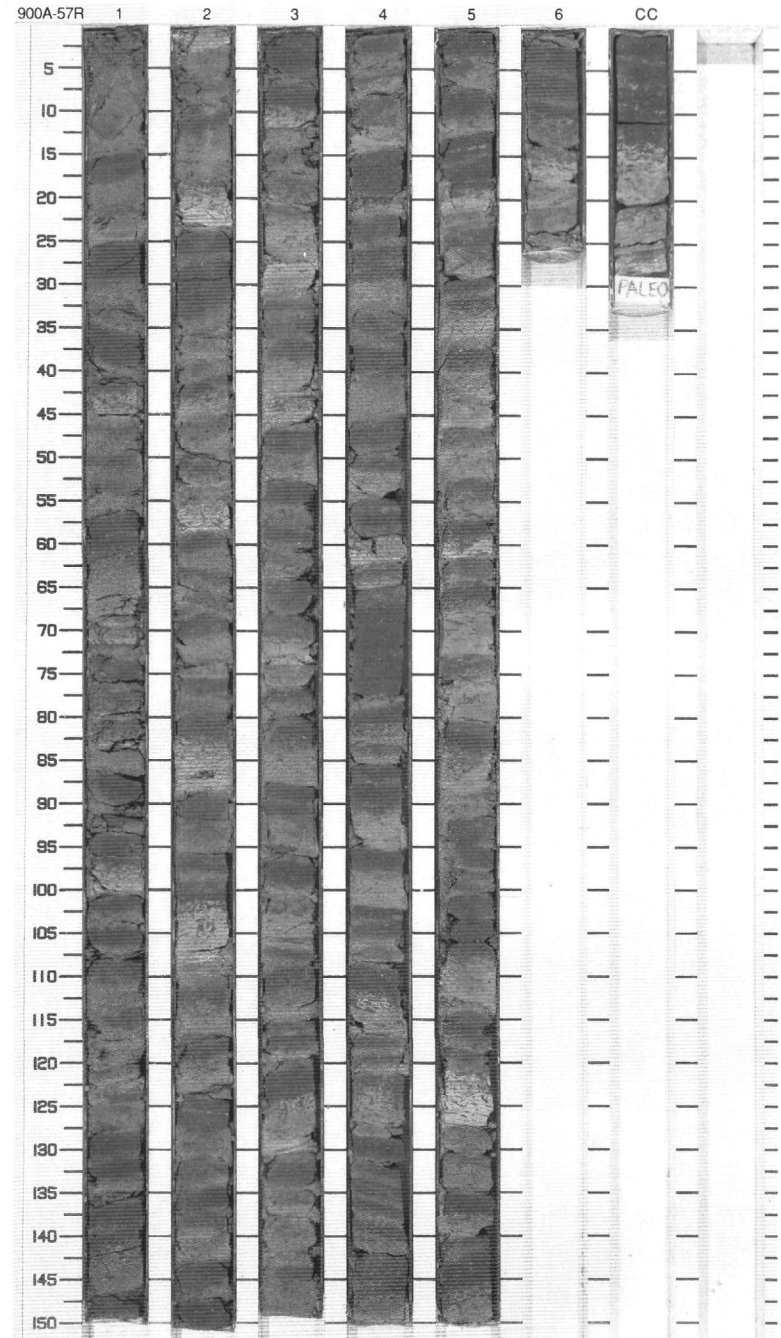
CORED 518.0 - 527.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1	late Eocene-middle Eocene	»» »» »» »» »» »» »»		S	5G 4/1 To 5B 5/1	SILTY CLAYSTONE and CALCAREOUS CLAYSTONE WITH SILT Major Lithologies: Dark greenish gray (5G 4/1) to dark yellowish brown (10YR 4/2) SILTY CLAYSTONE comprises 60% of the core, and medium bluish gray (5B 5/1) CALCAREOUS SILTSTONE WITH CLAY about 35%. Minor Lithology: Medium gray (N5) SILTSTONE forms 5% of the core. General Description: Upwards-darkening sequences, 4-10 cm thick and consisting of a basal SILTSTONE overlain by a CALCAREOUS CLAYSTONE WITH SILT followed by a SILTY CLAYSTONE, commonly occur in this core. The SILTSTONE is intensely bioturbated with Chondrites encountered throughout. Parallel laminations are present in a few SILTSTONE intervals. Zoophycos is less common in this core than in previous cores. The maximum bedding dip observed was 15 degrees.
2	[Pattern]	2				P		
3	[Pattern]	3				P		
4	[Pattern]	4				I		
5	[Pattern]	4				P		
6	[Pattern]	5				S		
7	[Pattern]	5				P		
		CC				M		



SITE 900 HOLE A CORE 57R CORED 527.6 - 537.2 mbsf

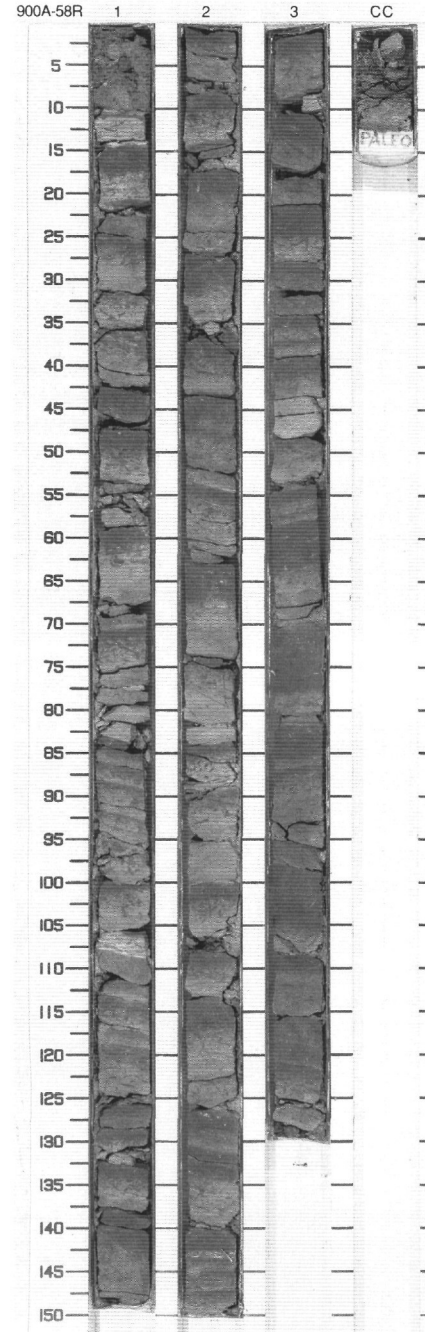
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1	middle Eocene	}}		S P	5Y 4/1 To 5G 5/1	<p>CALCAREOUS SILTY CLAYSTONE and NANNOFOSSIL CLAYSTONE</p> <p>Major Lithologies: CALCAREOUS SILTY CLAYSTONE is olive gray (5Y 5/1) in color and forms 52% of the core. NANNOFOSSIL CLAYSTONE is greenish gray (5G 5/1, 6/1) in color and forms 33% of the core.</p> <p>Minor Lithologies: CALCAREOUS CLAYEY SILTY SANDSTONE is bluish gray (5B 5/1) and greenish gray (5G 5/1) in color and is relatively unlithified, and often occurs within layers of greenish gray (5G 5/1) CLAY. Together these lithologies form about 7% of the core. It is possible that these soft lithologies may have been intruded between the core biscuits during drilling, and so the estimate of their proportions in the core may be incorrect. Calcite-cemented SANDSTONE is light olive in (5Y 6/1) color, and occurs as thin (2-3 mm) layers near the base of Section 5 and in the Core Catcher. NANNOFOSSIL CHALK forms about 8% of the core, and occurs at the bases of upwards-darkening sequences as beds up to 5 cm thick; Chondrites and Planolites are always present, and filled with dark SILTY CLAYSTONE.</p> <p>General Description: Upwards-darkening sequences, between 2 and 15 cm thick occur through much of the core. They consist of a lower interval of NANNOFOSSIL CLAYSTONE overlain by SILTY CLAYSTONE; the transition between the two lithologies is burrowed by Planolites and Chondrites. CALCAREOUS CLAYEY SILTY SANDSTONE and CALCAREOUS SANDSTONE occurs at the bases of some of the sequences. The maximum bedding dip observed in the core was 15 degrees.</p>
2	[Pattern]	2		}}		S		
3	[Pattern]	3		}}		P		
4	[Pattern]	4		}}		S		
5	[Pattern]	5		}}		P		
6	[Pattern]	6		}}		P		
8	[Pattern]	CC		}}	M			



SITE 900 HOLE A CORE 58R

CORED 537.2 - 546.9 mbsf

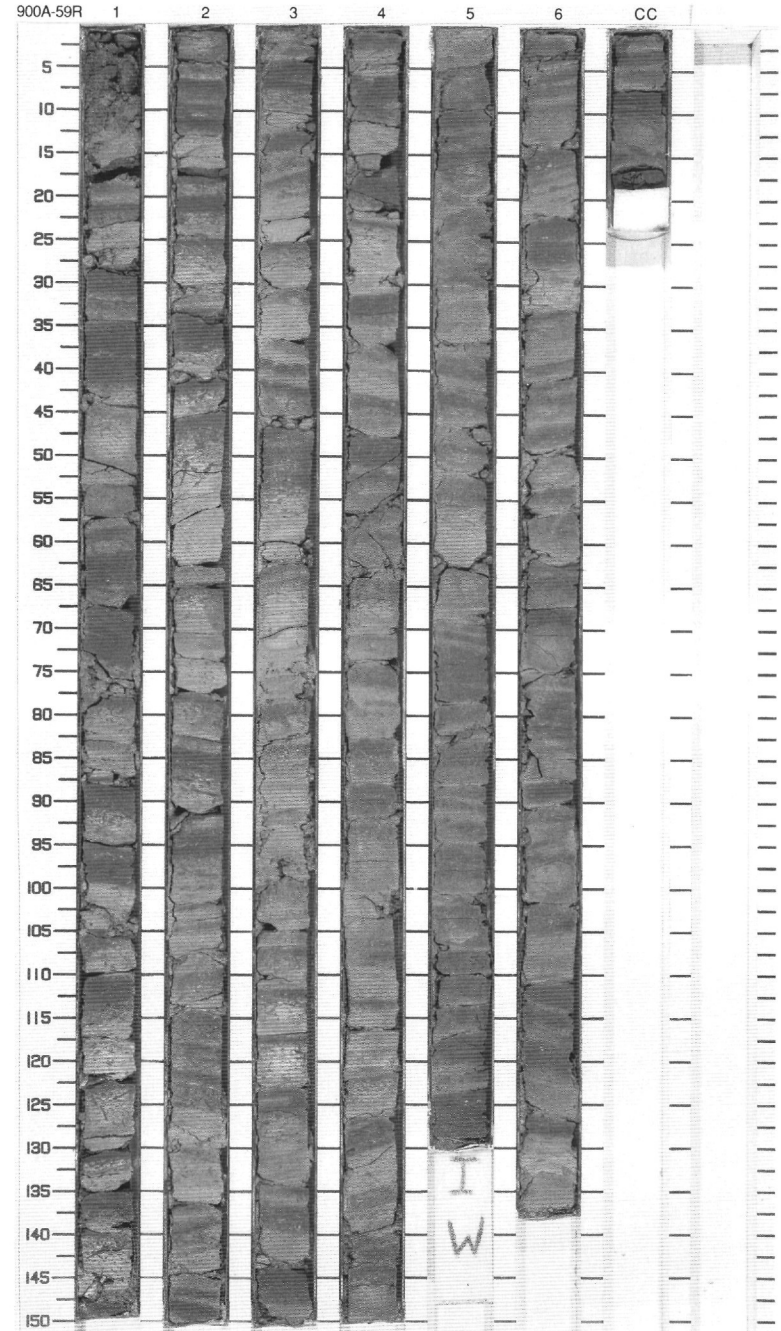
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Dotted pattern]	1	middle Eocene	}}		P	5GY 4/1 To 5GY 6/1	<p>SILTY CLAYSTONE and CALCAREOUS CLAYSTONE WITH SILT</p> <p>Major Lithologies: Dark greenish gray (5GY 4/1) to olive gray (5Y 4/1) SILTY CLAYSTONES forms 45% of the core. Greenish gray (5GY 6/1) CALCAREOUS CLAYSTONE WITH SILT comprises 40% of the core.</p> <p>Minor Lithology: Medium gray (N5) to medium light gray (N6) CALCAREOUS SILTSTONE totals about 15% of the core.</p> <p>General Description: This core consists of upwards-darkening sequences, 4-7 cm thick, composed of a basal calcite-cemented SILTSTONE passing upward into a CALCAREOUS CLAYSTONE WITH SILT followed by a SILTY CLAYSTONE. Comparatively, the abundance and degree of lithification of the SILTSTONE is greater in this core than the previous cores (e.g. 57R). The SILTSTONE is bioturbated, up to 1 cm thick, and is rarely laminated. Panolites and Chondrites occur in the core. Zoophycos is conspicuously absent. Drilling biscuits are present throughout the core.</p>
2	[Horizontal line pattern]	2		}}		S		
3	[Horizontal line pattern]	3		}}		S P		
4	[Horizontal line pattern]	cc		}}		S P		
				}}		M		



SITE 900 HOLE A CORE 59R

CORED 546.9 - 556.6 mbsf

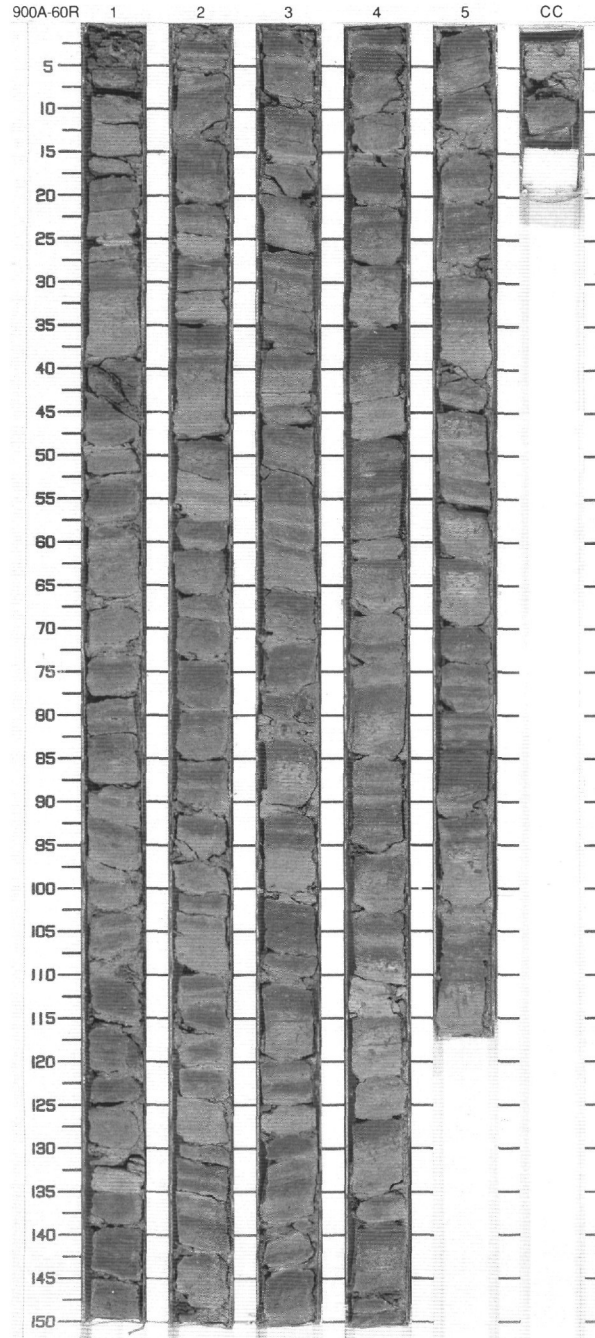
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	middle Eocene		}}	P		<p>SILTY CLAYSTONE and CALCAREOUS CLAYSTONE WITH SILT</p> <p>Major Lithologies: Dark greenish gray (5GY 4/1) to olive gray (5Y 4/1) SILTY CLAYSTONE forms 55% of the core, and greenish gray (5GY 6/1) CALCAREOUS CLAYSTONE WITH SILT 25%.</p> <p>Minor Lithology: Medium gray (N5) to medium light gray (N6) CALCAREOUS SILTY SANDSTONE forms about 20% of the core.</p> <p>General Description: This core consists of numerous upwards-darkening sequences, 5 to 14 cm thick, composed of basal calcite-cemented CALCAREOUS SILTY SANDSTONE, followed by CALCAREOUS CLAYSTONE and overlain by SILTY CLAYSTONE. Drilling biscuits are common and delimit most of the sequences; therefore the original tops and bases of the sequences are not preserved.</p>
2		2			}}	P		
3		3			}}	P		
4		4			}}	P	N5 To 5YR 4/1	
5		5			}}	P		
6		6			}}	P		
7		7		}}	P			
8		8		}}	I			
9		9		}}	P			
		CC		..		M		



SITE 900 HOLE A CORE 60R

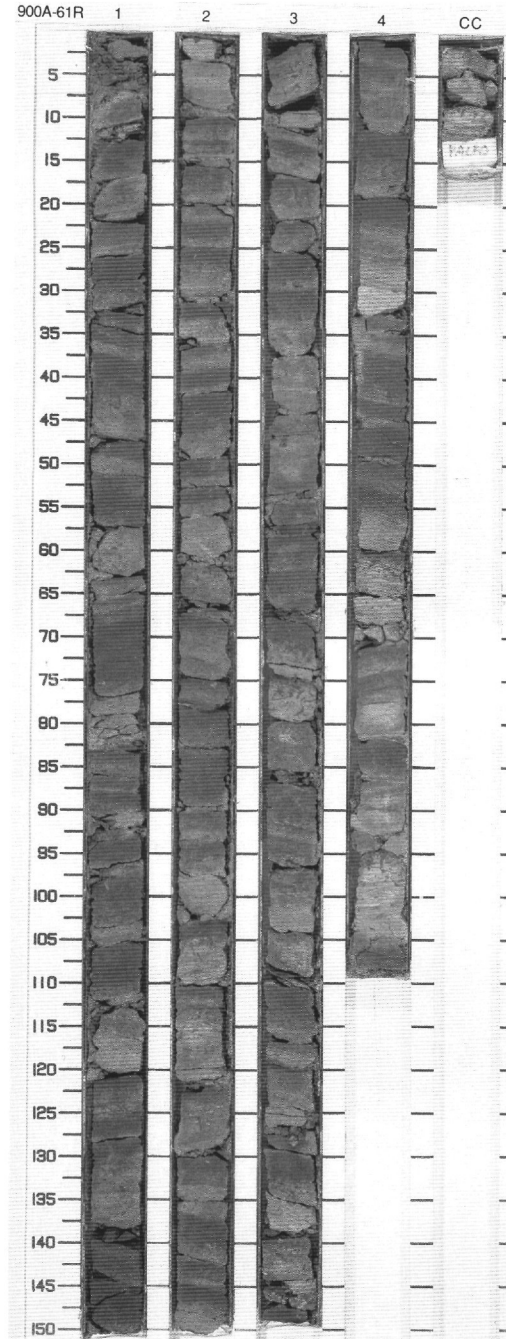
CORED 556.6 - 566.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1			∩	P		<p>SILTY CLAYSTONE, CALCAREOUS CLAYSTONE WITH SILT and SILTY SANDSTONE TO SILTSTONE</p> <p>Major Lithologies: Dark greenish gray (5GY 4/1) and olive gray (5Y 4/1) SILTY CLAYSTONE forms 40% of the core. Greenish gray (5GY 6/1) CLAYSTONE with SILT comprises 40% of the core. Medium gray (N5) to medium light gray (N6) SILTY FINE SANDSTONE to SILTSTONE comprises 20% of the core.</p> <p>Minor Lithology: Medium gray (N5) to medium light gray (N6) CALCAREOUS SILTY SANDSTONE forms about 20% of the core.</p> <p>General Description: The core consists of several upwards-darkening sequences, with an average thickness of 5 to 6 cm. They are composed of a basal CALCAREOUS SILTY SANDSTONE, followed by CALCAREOUS CLAYSTONE and SILTY CLAYSTONE. The core is highly brecciated due to drilling. In general the rocks seem to be more indurated and cemented. The maximum bedding dip observed was 10 degrees.</p>
2		2			∩	P		
3		3	middle Eocene		∩	P	N5 To 5Y 4/1	
4		4			∩	P		
5		5			∩	P		
6	VOID				∩	P		
7					∩	P		
		CC				M		



SITE 900 HOLE A CORE 61R CORED 566.2 - 575.9 mbsf

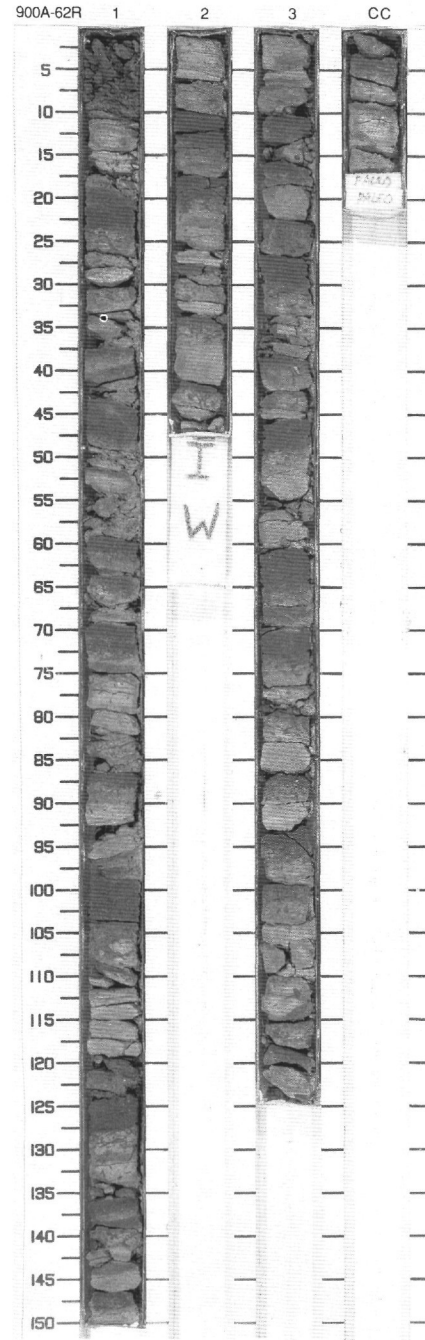
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	middle Eocene	...	~	P	N5 To 5GY 6/1	<p>SILTY CLAYSTONE, CLAYSTONE WITH SILT, and CALCAREOUS SILTY SANDSTONE TO SILTSTONE</p> <p>Major Lithologies: Dark greenish gray (5GY 4/1) and olive gray (5Y 4/1) SILTY CLAYSTONE forms 40% of the core. Greenish gray (5GY 6/1) CLAYSTONE WITH SILT and medium gray (N5) to medium light gray (N6), fine-grained CALCAREOUS SILTY SANDSTONE TO SILTSTONE each form 30% of the core.</p> <p>General Description: The core consists of several upwards-darkening sequences, ranging in thickness from 5 to 10 cm. The sequences are composed of a basal, calcite-cemented CALCAREOUS SILTY SANDSTONE TO SILTSTONE, grading upwards into CLAYSTONE and overlain by SILTY CLAYSTONE. The CALCAREOUS SANDSTONE is mostly cross-laminated with wavy ripple lamination and bioturbation at the top. Bedding dip is between 8 and 10 degrees.</p>
2		2		...	~	P		
3		3		...	~	P		
4		4		...	~	P		
5		4		...	~	P		
		CC				M		



SITE 900 HOLE A CORE 62R

CORED 575.9 - 585.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Dotted pattern]	1	middle Eocene		}}	S	N5 To 5GY 6/1	<p>SILTY CLAYSTONE, CLAYSTONE WITH SILT and CALCAREOUS SILTY SANDSTONE</p> <p>Major Lithologies: Dark greenish gray (5GY 4/1) and olive gray (5Y 4/1) SILTY CLAYSTONE forms 38% of the core and greenish gray (5GY 6/1) CLAYSTONE with SILT 35%. Medium greenish gray (N5) to medium light gray (N6) CALCAREOUS SILTY SANDSTONE forms 27% of the core.</p> <p>General Description: The core consists of several, slightly upwards-darkening sequences, 5 to 10 cm thick. They are composed by a basal SILTY SANDSTONE, followed by CLAYSTONE and SILTY CLAYSTONE. The sequences are probably similar to those described in previous cores, but due to drilling brecciation their thickness cannot be measured.</p>
2	[Dotted pattern]	2			}}	P		
3	[Dotted pattern]	3			}}	P ₁		
		CC				M		



SITE 900 HOLE A CORE 63R CORED 585.6 - 595.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	middle Eocene	Mn	~	P S	N7 To 5GY 4/1	<p>SILTY CLAYSTONE, CALCAREOUS CLAYSTONE WITH SILT, and CALCAREOUS SILTY SANDSTONE</p> <p>Major Lithologies: Dark greenish gray (5GY 4/1) SILTY CLAYSTONE forms 50% of the core, and greenish gray (5GY 6/1) CALCAREOUS CLAYSTONE WITH SILT forms 30%. Light gray (N7) to medium gray (N5) CALCAREOUS SILTY SANDSTONE comprises 20% of the core.</p> <p>General Description: The core consists of upwards-darkening sequences as described for the previous cores. Due to drilling fractures, it is not possible to estimate the thickness of the sequences. Most parts of the less cemented basal sandstones are washed. A few well-cemented sandstones occur throughout the core, and show ripple lamination.</p>
2		2	middle Eocene		~	P		
		CC				M		

