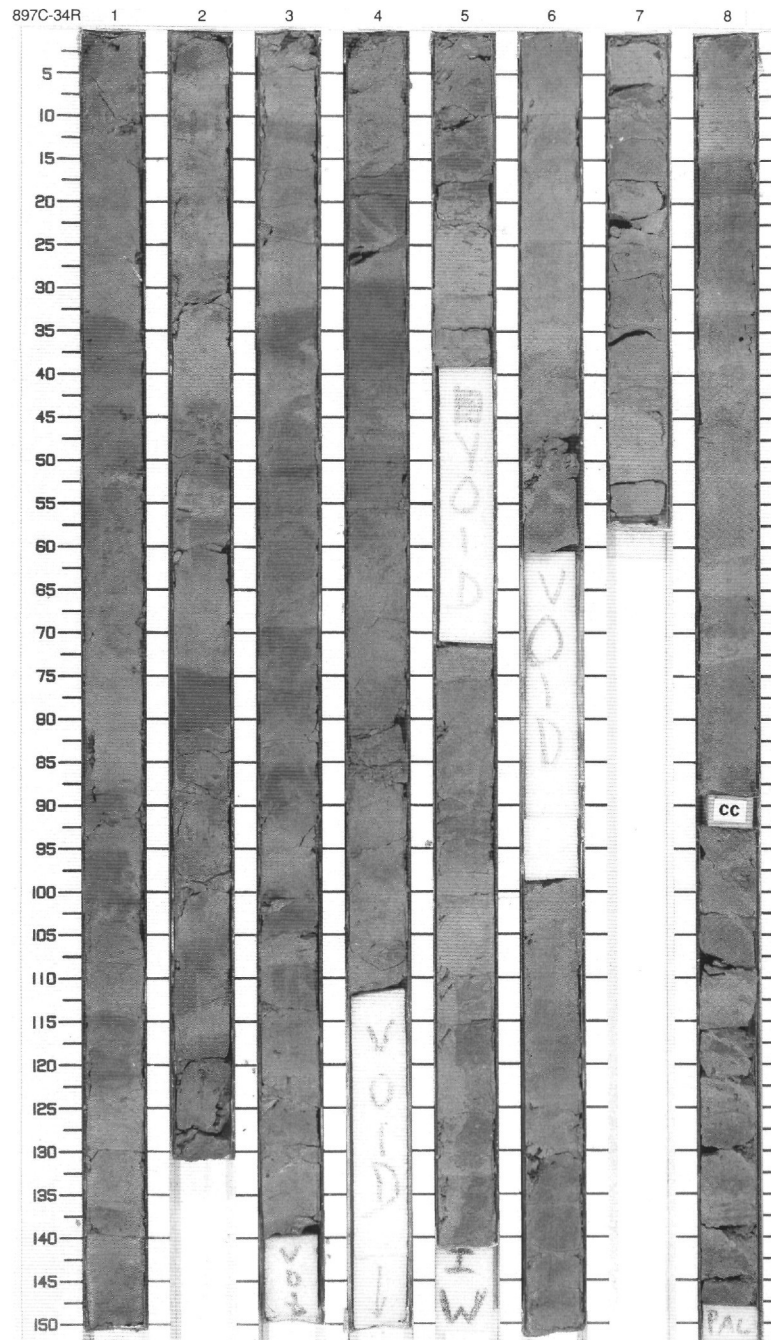


SITE 897 HOLE C CORE 34R

CORED 368.8 - 378.4 mbsf

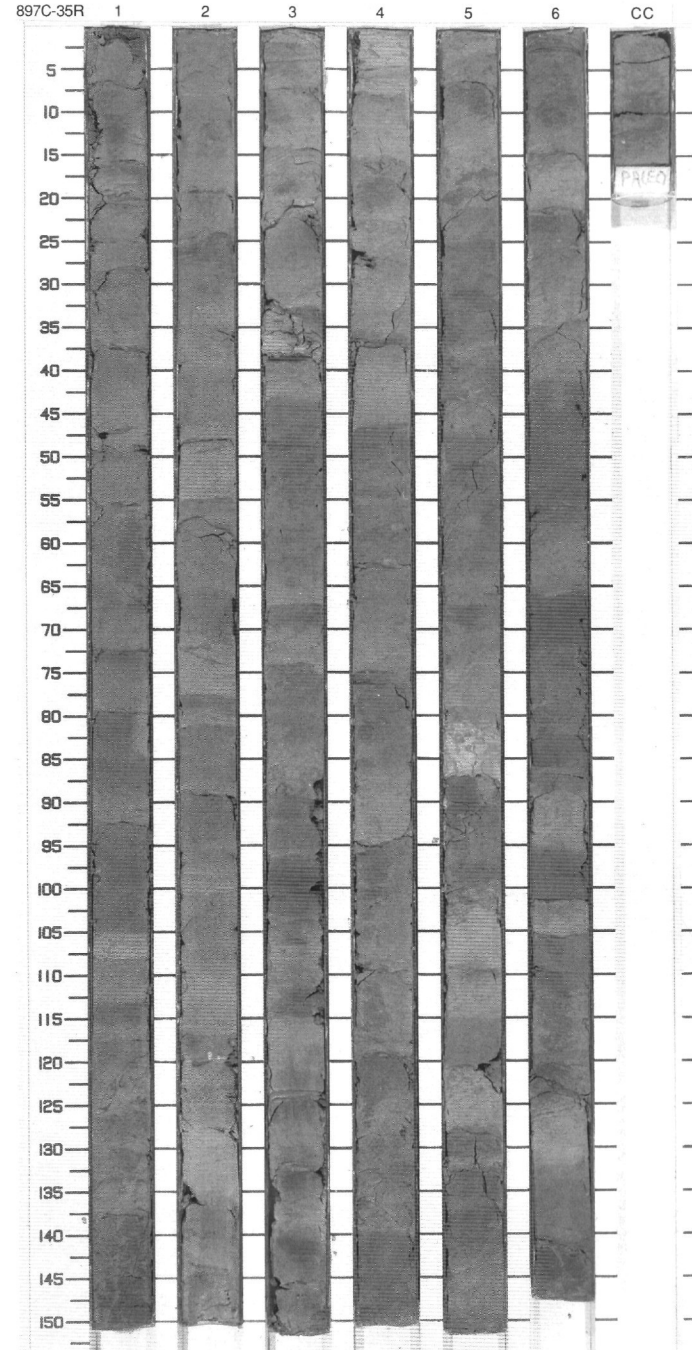
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1		[Wavy pattern]		P		<p>CLAYEY SILTSTONE and SILTY CLAYSTONE</p> <p>Major Lithologies: Light greenish gray (5GY 5/1) CLAYEY SILTSTONE and greenish gray (5GY 4/1) SILTY CLAYSTONE comprises about 80% of the sequence in Sections 1 to 4, and 100% in Sections 5 to 8. Both color variations contain around 10% sponge spicules.</p> <p>Minor Lithology: Olive gray (5Y 4/1) CLAYEY SILTSTONE contains a higher proportion (20%) of sponge spicules than the major lithologies. It makes up about 20% of Sections 1 to 4, but is absent in the lower parts of the core.</p> <p>General Description: The cut surface of the core is difficult to see because it is coated with a cake of sticky mud produced during sawing, therefore the record of trace fossil types is likely to be deficient. In places it appears that the light greenish SILTY CLAYSTONE overlies the greenish gray SILTY CLAYSTONE with a slight erosional contact, and together these lithologies form couplets or 'rhythms' ranging in thickness between 10 and 40 cm. Chondrites burrows penetrate the lower lithology and are filled with the overlying lighter sediment. In places within the couplets the two lithologies are intensively mottled. Chondrites, Planolites, and Zoophycos were observed throughout the core.</p>
2	[Hatched pattern]	2		[Wavy pattern]		P	5GY 2/1 To 5GY 5/1	
3	[Hatched pattern]	3		[Wavy pattern]		P		
4	[Hatched pattern]	4		[Wavy pattern]		P		
5	[Hatched pattern]	5		[Wavy pattern]		P	5GY 4/1 To 5GY 5/1	
6	[Hatched pattern]	6		[Wavy pattern]		P	5GY 5/1	
7	[Hatched pattern]	7		[Wavy pattern]		P	5GY 4/1	
8	[Hatched pattern]	8		[Wavy pattern]		P	5GY 5/1	
9	[Hatched pattern]	9		[Wavy pattern]		P	5GY 4/1 To 5GY 5/1	
10	[Hatched pattern]	10		[Wavy pattern]		P		
	[Hatched pattern]	CC		[Wavy pattern]		M		



SITE 897 HOLE C CORE 35R

CORED 378.4 - 388.1 mbsf

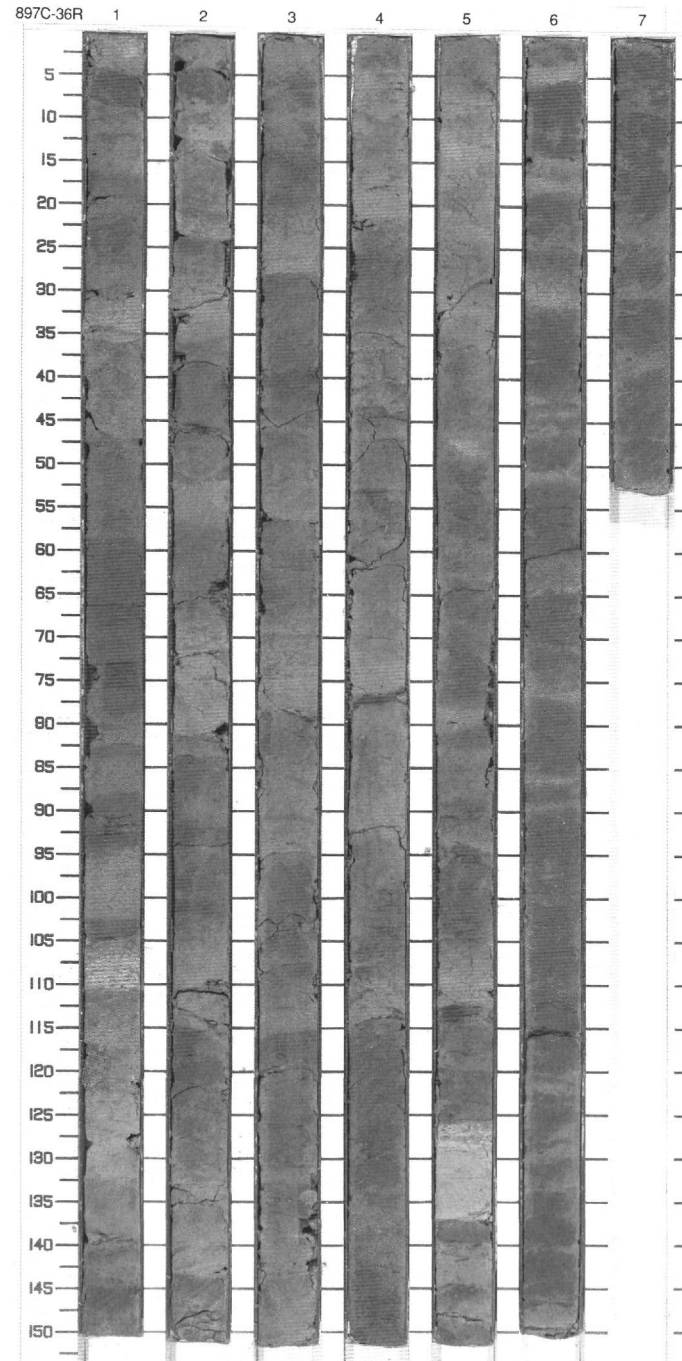
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1	early Miocene	[Symbol]	-	P	10GY 5/2	<p><b>SILTY CLAYSTONE</b></p> <p>Major Lithology: Grayish green (10GY 5/2) SILTY CLAYSTONE comprises 60% of the core and contains about 10% sponge spicules.</p> <p>Minor Lithologies: Greenish gray (5GY 6/1) to olive gray (5Y 4/1) CLAYSTONE contains up to 20% sponge spicules. Olive gray (5Y 4/1) to medium dark gray (N4) SILTSTONE makes up about 1%-2% of the core. CLAYSTONE and SILTSTONE are present throughout the core.</p> <p>General Description: In places bioturbation disrupts the stratigraphic relationships. Distinct darkening up sequence, 10-30 cm thick, are apparent. They show the following upward change in lithology: SILTSTONE, SILTY CLAYSTONE, and CLAYSTONE. SILTY CLAYSTONE is not always present in the single sequences. Zoophycos, Planolites, and Chondrites are present in the core.</p>
2	[Pattern]	2		[Symbol]		S		
3	[Pattern]	3		[Symbol]		S		
4	[Pattern]	3		[Symbol]		P		
5	[Pattern]	4		[Symbol]		P		
6	[Pattern]	4		[Symbol]		P		
7	[Pattern]	5	late Oligocene	[Symbol]	-	P	10GY 5/2 To 5GY 6/1	
8	[Pattern]	6		[Symbol]		S		
9	[Pattern]	6		[Symbol]		P		
		CC				M		



SITE 897 HOLE C CORE 36R

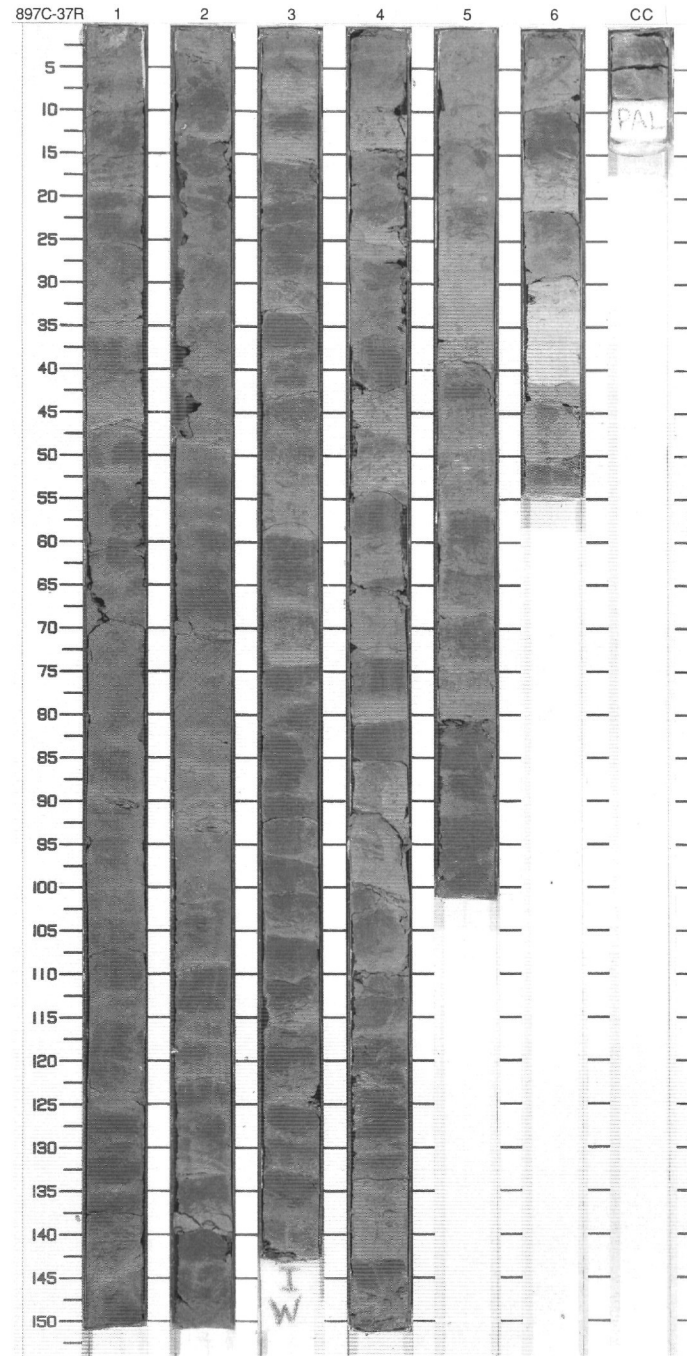
CORED 388.1 - 397.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	late Oligocene	[Wavy pattern]	[Vertical lines]	S S P	5GY 4/1 To 5GY 5/1	<p><b>SILTY CLAYSTONE</b></p> <p>Major Lithology: The color of the <b>SILTY CLAYSTONE</b> reflects the silt content: lighter sediments (greenish gray, GY 5/1) contain around 50% silt, where as darker sediments (dark greenish gray, 5GY 4/1; olive gray, 5Y 4/1) contain about 30% silt-size grains.</p> <p>Minor Lithology: Medium light gray (N6) <b>NANNOFOSSIL CLAYSTONE</b> occurs burrow mottled with greenish gray <b>SILTY CLAYSTONE</b> (149-897C-36R-1 at 103-111 cm), and as a discrete interval of light olive gray (5Y 6/1) in 149-897C-36-5 at 124-137 cm).</p> <p>General Description: Between 149-897-36R-1 at 0 cm and 149-897C-36R at 45 cm the sequence is dominated by thin to medium color banding showing a darkening up trend between greenish gray (5GY 5/1) and dark greenish gray (5GY 4/1) <b>SILTY CLAYSTONES</b>. Some of the darkening up bands have thin beds of olive gray (5Y 4/1) <b>SILTY CLAYSTONES</b> at their bases. The color bands have sharp tops (possibly accentuated by the formation of core biscuits). The boundaries between the two types of <b>SILTY CLAYSTONES</b> are usually transitional due to burrow mixing. Planolites, Chondrites, and Zoophycos occur at various intervals, and are more evident above in the upper parts of the core down to 149-897C-36R-4 at 45 cm. Below this level, the thin to medium color banding consists of an alternating greenish gray (5GY 5/1) and olive gray (5Y 4/1) <b>SILTY CLAYSTONES</b>. Over this lower interval trace fossils are not clearly visible, but it is probable that the sediments were almost completely homogenized by bioturbation. The core expanded noticeably on wetting.</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		S P				
7	[Hatched pattern]	7		S				
8	[Hatched pattern]	6						
9	[Hatched pattern]	7						
						M		



SITE 897 HOLE C CORE 37R CORED 397.8 - 407.4 mbsf

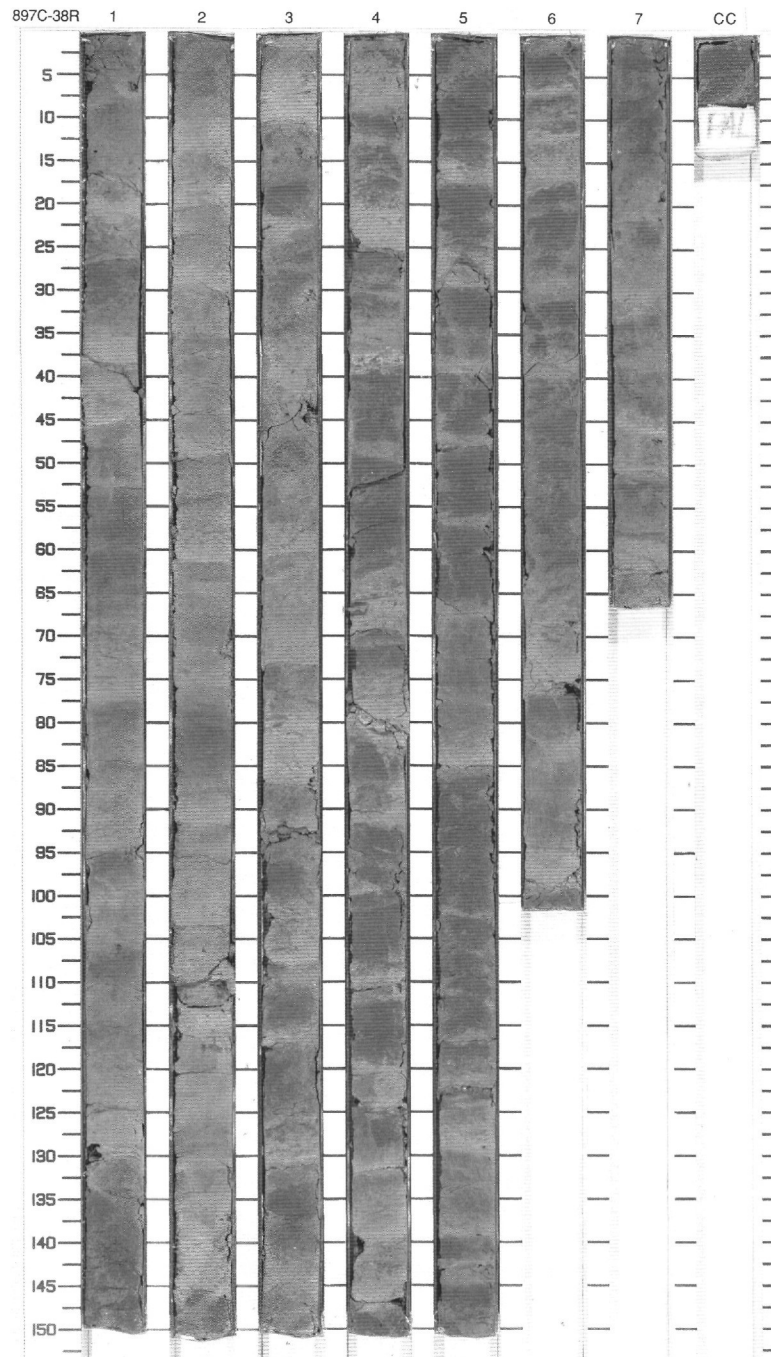
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	late Oligocene	[Wavy pattern]	[Diagonal lines]	S P	5GY 2/1 To 5GY 5/1	<p>SILTY CLAYSTONE and CLAYEY SILTSTONE</p> <p>Major Lithologies: From 149-897C-37R-1 at 0 cm to 149-897C-37R at 150 cm the sequence consists of alternating thin bedded light olive gray (5Y 5/1) SILTY CLAYSTONES and greenish gray (5GY 5/1) CLAYEY SILTSTONES.</p> <p>Minor Lithology: Greenish gray (5G 4/1) NANNOFOSSIL CHALK occurs at 149-897C-37R-6 between 30-40 cm.</p> <p>General Description: The alternating bands SILTY CLAYSTONES darken up through the single sequence and show gradational bases due to burrow mixing. Sharp tops of the single sequence are probably caused or accentuated by the junctions between core biscuits.</p> <p>Between 149-897C-37R-4 to 149-897C-37R-6 thin interbeds of olive gray (5Y 4/1) CLAYEY SILTSTONES and greenish gray (5G 5/1) CLAYEY SILTSTONES are visible. Trace fossils are less common in this interval, which has probably been homogenized by bioturbation. The ichnofauna includes Planolites, Chondrites, and occasionally Zoophycos.</p>
2	[Hatched pattern]	2		[Wavy pattern]	[Diagonal lines]	S		
3	[Hatched pattern]	3		[Wavy pattern]	[Diagonal lines]	P		
4	[Hatched pattern]	4		[Wavy pattern]	[Diagonal lines]	P		
5	[Hatched pattern]	5		[Wavy pattern]	[Diagonal lines]	I		
6	[Hatched pattern]	6		[Wavy pattern]	[Diagonal lines]	P	5Y 5/1 To 5GY 5/1	
7	[Hatched pattern]	6		[Wavy pattern]	[Diagonal lines]	P		
	[Hatched pattern]	CC		[Wavy pattern]	[Diagonal lines]	S	M	



SITE 897 HOLE C CORE 38R

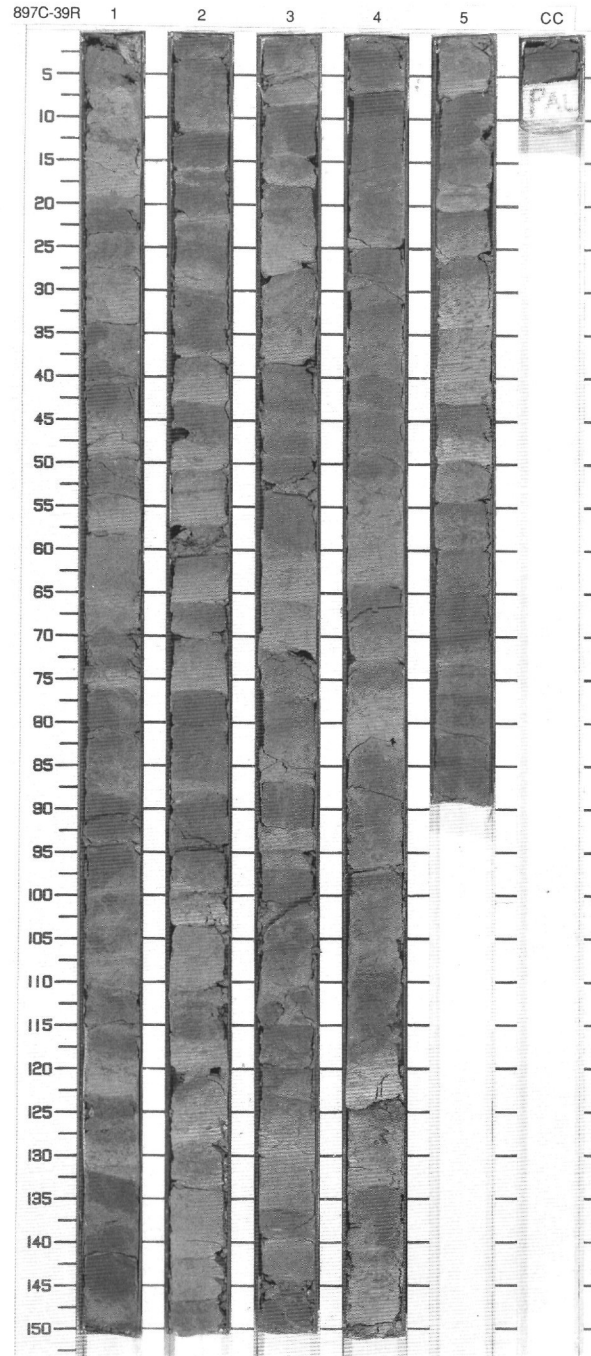
CORED 407.4 - 417.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	late Oligocene	[Wavy pattern]	[Wavy pattern]	P	5Y 5/1 To 5GY 5/1	<p>SILTY CLAYSTONE</p> <p>Major Lithology: Light olive gray (5Y 5/1) SILTY CLAYSTONES constitute 80% to 90% of the succession.</p> <p>Minor Lithology: Greenish gray (5GY 5/1) CLAYEY SILTSTONE.</p> <p>General Description: Major and minor lithologies alternate through the core. The lithological alternations darken up, and show gradational bases due to burrow mixing, and sharp tops (which are probably caused or accentuated by being the junctions between core biscuits). The core is heavily bioturbated, distinct trace fossils are Planolites, Chondrites, and occasional Zoophycos.</p>
2	[Hatched pattern]	2		[Wavy pattern]	[Wavy pattern]	P		
3	[Hatched pattern]	3		[Wavy pattern]	[Wavy pattern]	P		
4	[Hatched pattern]	4		[Wavy pattern]	[Wavy pattern]	P		
5	[Hatched pattern]	5		[Wavy pattern]	[Wavy pattern]	P		
6	[Hatched pattern]	6		[Wavy pattern]	[Wavy pattern]	P		
7	[Hatched pattern]	7		[Wavy pattern]	[Wavy pattern]	P		
8	[Hatched pattern]	8		[Wavy pattern]	[Wavy pattern]	P		
9	[Hatched pattern]	9		[Wavy pattern]	[Wavy pattern]	P		
		CC				M		



SITE 897 HOLE C CORE 39R CORED 417.1 - 426.7 mbsf

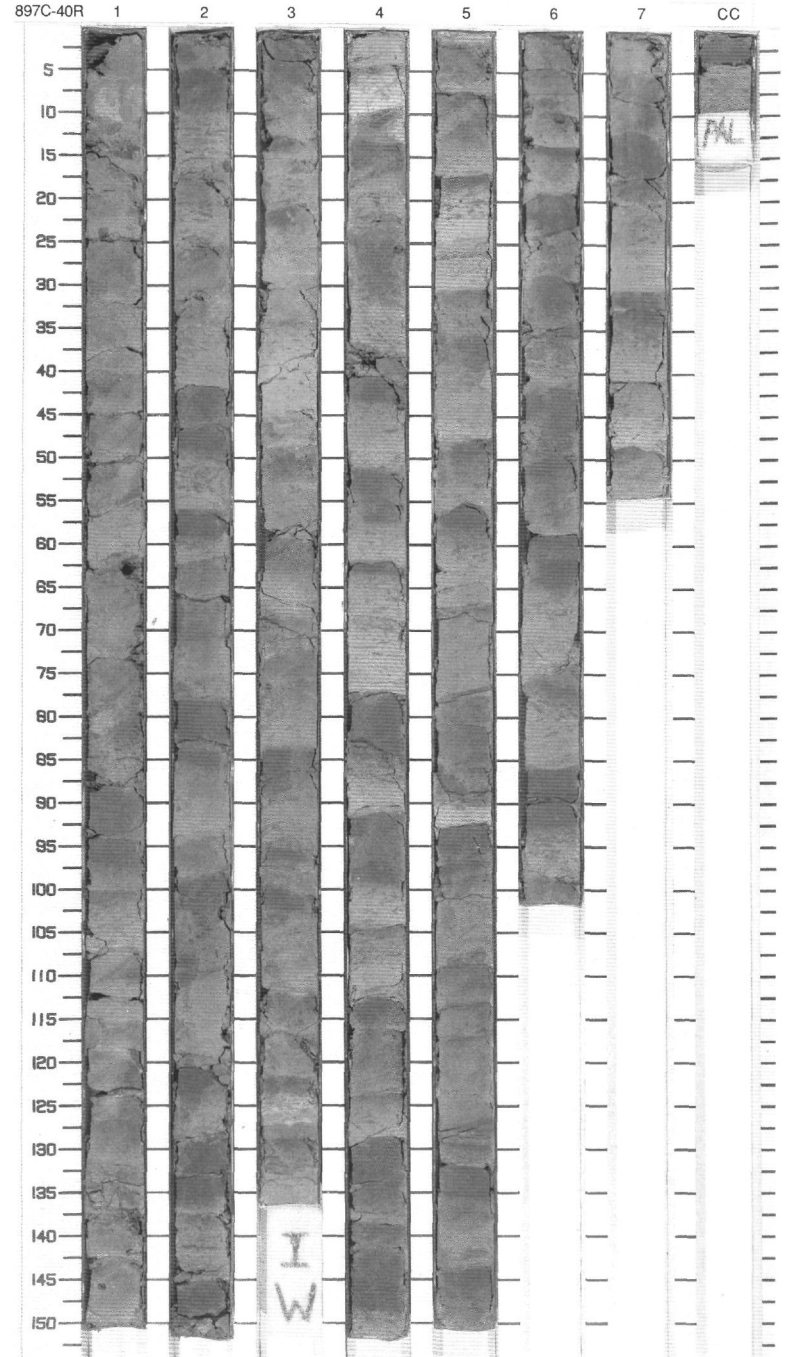
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Graphic Lithology: Alternating horizontal lines and wavy patterns]	1	late Oligocene	[Symbol]	[Symbol]	P	5Y 5/1 To 5GY 5/1	<p>SILTY CLAYSTONE and CLAYSTONE</p> <p>Major Lithologies: Olive gray (5Y 5/1) SILTY CLAYSTONE and greenish gray (5GY 5/1) CLAYEY SILTSTONE.</p> <p>Minor Lithology: Thin intervals or laminae of SANDY SILTSTONE, which constitute less than 10% of the core.</p> <p>General Description: The core consists of alternating medium-bedded layers grading from light greenish gray (5GY 5/1) SILTY CLAYSTONE to olive gray (5Y 4/1) CLAYEY SILTSTONE. The lithological alternations darken upwards, and show gradational bases due to burrow mixing, and sharp tops, which are probably accentuated by core biscuits. Some layers contain mm- to cm-thick laminae of SANDY SILTSTONE. A total of 12 layers with basal sandy laminae are present in this core. Planolites and Chondrites are common.</p>
2		2		[Symbol]	[Symbol]	P		
3		3		[Symbol]	[Symbol]	P		
4		4		[Symbol]	[Symbol]	P		
5		5		[Symbol]	[Symbol]	P		
6		6		[Symbol]	[Symbol]	P		
		cc				M		



SITE 897 HOLE C CORE 40R

CORED 426.7 - 436.4 mbsf

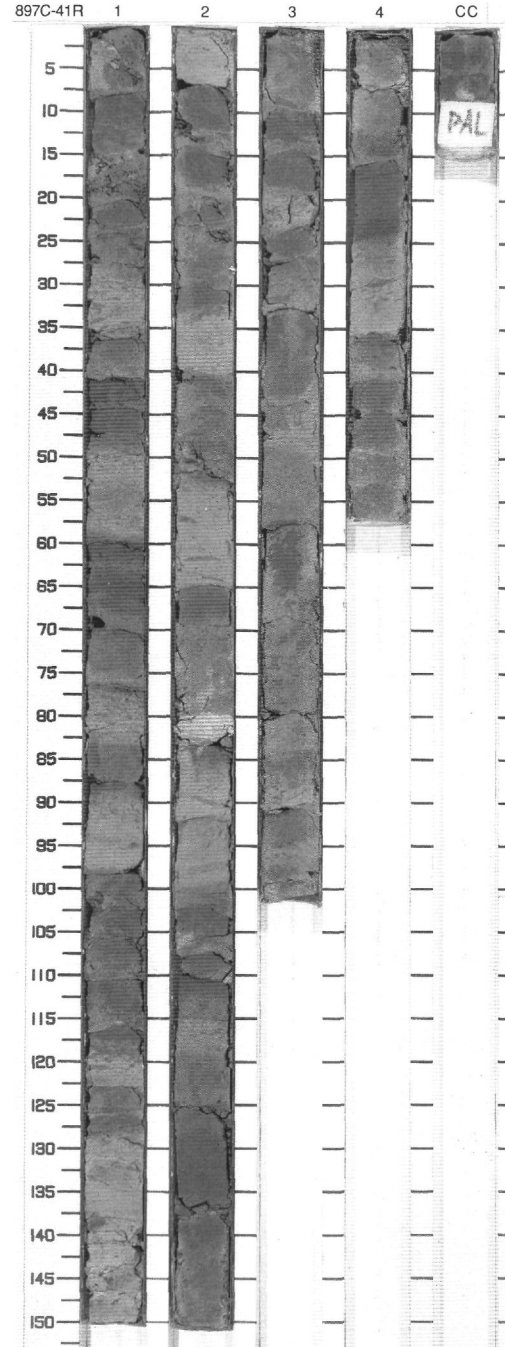
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	late Oligocene	[Wavy lines]	[Vertical lines]	S	5G 4/1 To 5G 6/1	SILTY CLAYSTONE and CLAYEY SILTSTONE  Major Lithologies: Dark greenish gray (5G 4/1), greenish gray (5G 6/1) to dusky yellow green (5G 5/2) and greenish gray (5GY 5/1) SILTY CLAYSTONE and CLAYEY SILTSTONE.
2	[Hatched pattern]	2		[Wavy lines]	[Vertical lines]	S		
3	[Hatched pattern]	3		[Wavy lines]	[Vertical lines]	P		
4	[Hatched pattern]	3		[Wavy lines]	[Vertical lines]	S	5GY 5/2 To 5G 6/1	General Description: The core consists of alternating, darkening upwards, medium bedded layers from dark greenish gray (5G 4/1) or dusky yellow green (5GY 5/2) to greenish gray (5G 6/1 or 5GY 5/1). The alternations have gradational bases and some layers show mm- to cm-thick intervals of parallel-laminated and graded SANDY SILTSTONE with a maximum thickness of 5 cm. 149-897C-40R-3 to 149-897C-40R-6 contain up to 10% basal sandy layers.
5	[Hatched pattern]	4		[Wavy lines]	[Vertical lines]	P		
6	[Hatched pattern]	4		[Wavy lines]	[Vertical lines]	P	5GY 5/1 To 5G 6/1	
7	[Hatched pattern]	5		[Wavy lines]	[Vertical lines]	P		
8	[Hatched pattern]	6		[Wavy lines]	[Vertical lines]	P		
9	[Hatched pattern]	7		[Wavy lines]	[Vertical lines]	P		
		CC				M		



SITE 897 HOLE C CORE 41R

CORED 436.4 - 446.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	late Oligocene	[Symbol]	[Symbol]	P	5G 4/1 To 5GY 6/2	<p>CLAYSTONE and SILTY CLAYSTONE</p> <p>Major Lithologies: Dark greenish gray (5G 4/1) CLAYSTONE and greenish gray (5GY 6/1) SILTY CLAYSTONE.</p> <p>Minor Lithology: Thin laminae of grayish green (5G 6/2) SANDY SILTSTONE constitutes less than 10% of the core.</p> <p>General Description: The core consists of alternating medium-bedded layers grading from greenish gray (5GY 6/1) at bottom to dark greenish gray (5G 4/1) at top of each individual sequence. Sequence bases are gradational due to biological mixing and have sharp tops, which are probably accentuated by drilling cuttings. Some layers show mm- to cm-thick laminae of SANDY SILTSTONE. A total of 10 layers with basal sandy lamina with a normal thickness between 8-20 cm thickness are visible. Red grayish purple (5RP 4/1) thinly laminated bands are present. The ichnofauna observed includes Planolites, Chondrites, and several unnamed burrows.</p>
2	[Hatched pattern]	2		[Symbol]	[Symbol]	S		
3	[Hatched pattern]	3		[Symbol]	[Symbol]	P		
4	[Hatched pattern]	4		[Symbol]	[Symbol]	S		
	[Hatched pattern]	CC				M		

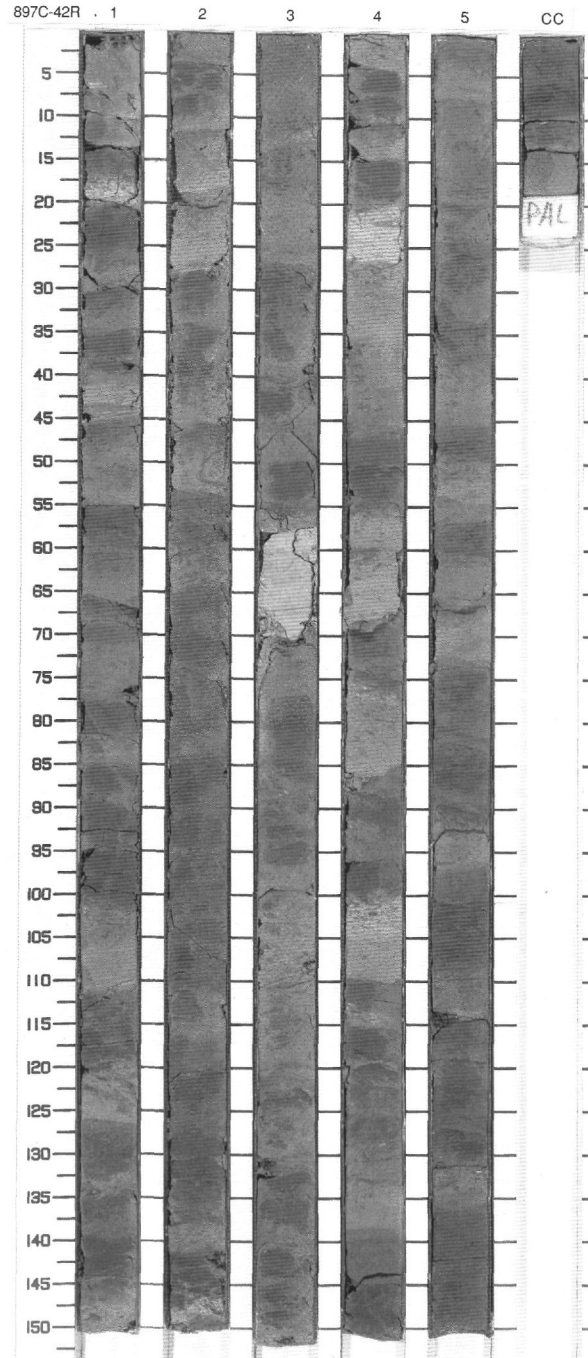




SITE 897 HOLE C CORE 42R

CORED 446.0 - 455.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1		...	✓	S	5Y 4/1 To 5GY 6/1	<p>SILTY CLAYSTONE and CALCAREOUS CLAYSTONE</p> <p>Major Lithologies: Olive gray (5Y 4/1) CLAYSTONE and greenish gray (5GY 6/1) CALCAREOUS SILTY CLAYSTONE.</p> <p>Minor Lithologies: Thin-bedded intervals or laminae of greenish gray (5GY 6/1) CALCAREOUS SANDY SILT, make up less than 10% of the core.</p> <p>General Description: The core consists of alternating medium-bedded layers with prograding color from olive gray (5Y 5/1) to greenish gray (5GY 6/1) in each individual unit. Bioturbation increases towards the top. Some layers show mm-to cm-thick laminae of greenish gray (5GY 6/1) CALCAREOUS SANDY SILTSTONE. A total of 18 units with basal sand layers between 10-20 cm thick are visible. Thinly laminated bands of grayish red purple (RP 4/2) occur throughout the core. From 149-897C-42R-5 at 0 cm to 149-897C-42R-CC several thin greenish black (5GY 2/1) SILTY SANDSTONE bands are present. The ichnofauna includes Zoophycos, Planolites, and Chondrites.</p>
2	[Pattern]	2		...	✓	S		
3	[Pattern]	3		...	✓	P		
4	[Pattern]	4		...	✓	P		
5	[Pattern]	5		...	✓	P		
6	[Pattern]	5		...	✓	P		
7	[Pattern]	5		...	✓	P		
	[Pattern]	CC		...	✓	P		
	[Pattern]	CC		...	✓	M		



SITE 897 HOLE C CORE 43R

CORED 455.6 - 465.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Dotted pattern]	1	Oligocene - Eocene	[Lithological symbols]	[Disturbance symbols]	S	5GY 5/1 To 5GY 6/1	<p>CLAYEY SILTSTONE and CLAYSTONE</p> <p>Major Lithologies: This core consists of CLAYEY SILTSTONE of dark greenish gray (5GY 5/1) and olive gray (5Y 4/1) and CLAYSTONE of similar colors.</p> <p>Minor Lithology: Thin intervals of greenish gray (5G 6/1) CALCAREOUS FINE SANDSTONE, make up less than 5% of the core.</p> <p>General Description: The core consists of alternating medium-bedded layers of CLAYEY SILTSTONE to CLAYSTONE, grading from greenish gray (5G 5/1) to dark greenish gray (5G 5/1). Beginning in 149-897C-43R-2 at 0 cm the color of the upper part of the single unit changes to olive gray (5Y 4/1). Twelve similar sequences, from 10-20 cm thick are visible. Distinct greenish gray (5G 5/1) CALCAREOUS FINE SANDSTONE laminae are found at the base of several sequences. The number of grayish red purple (5RP 4/2) thin laminations and the thickness of lamination is increasing throughout the core. Greenish gray (5GY 5/1) CLAYEY SILTSTONE is intensively bioturbated, without distinct ichnofauna.</p>
2	[Dotted pattern]	2				P	5GY 8/1	
3	[Dotted pattern]	3				P	5Y 4/1 To 5G 6/1	
4	[Dotted pattern]	4				P		
5	[Dotted pattern]	5				P		
6	[Dotted pattern]	6				P		
7	[Dotted pattern]	7				P		
		CC				M		

