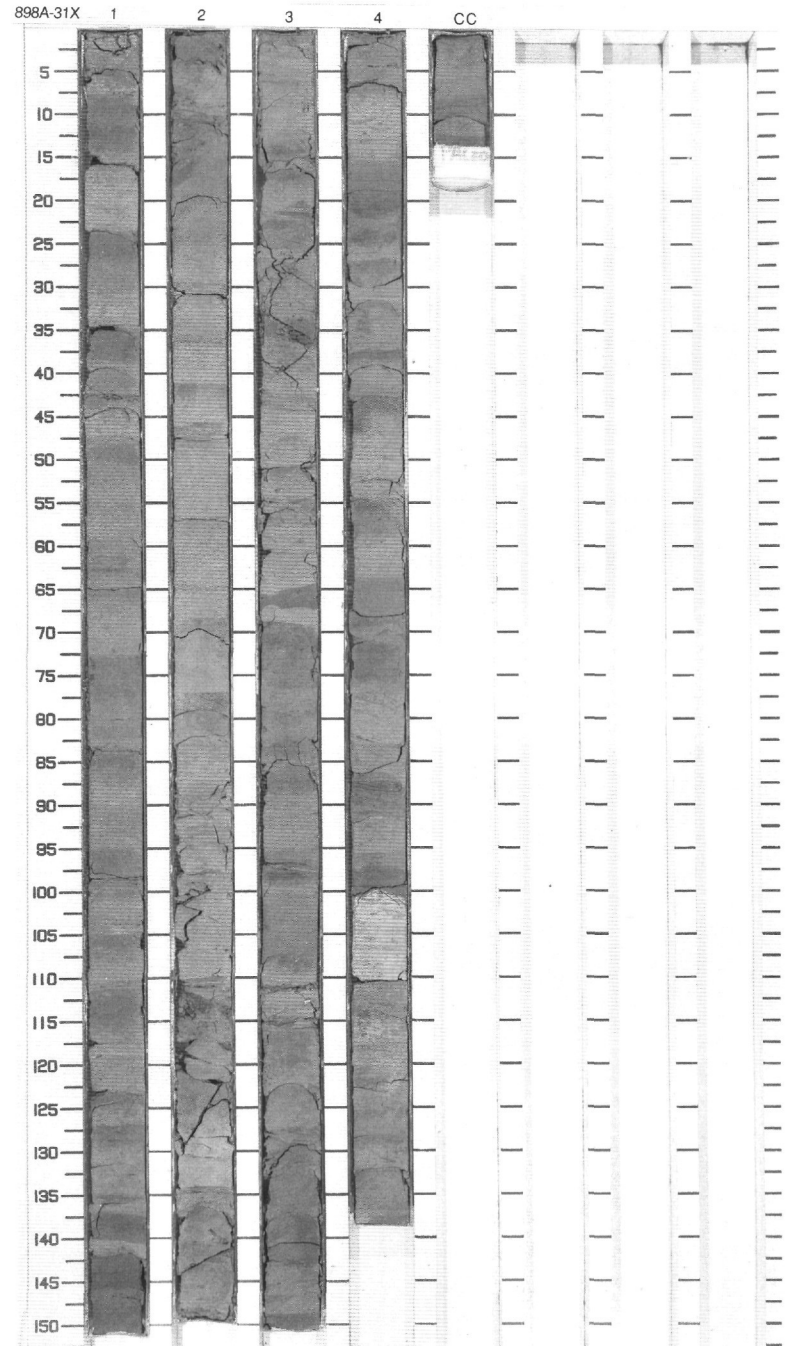


SITE 898 HOLE A CORE 31X

CORED 283.5 - 293.2 mbsf

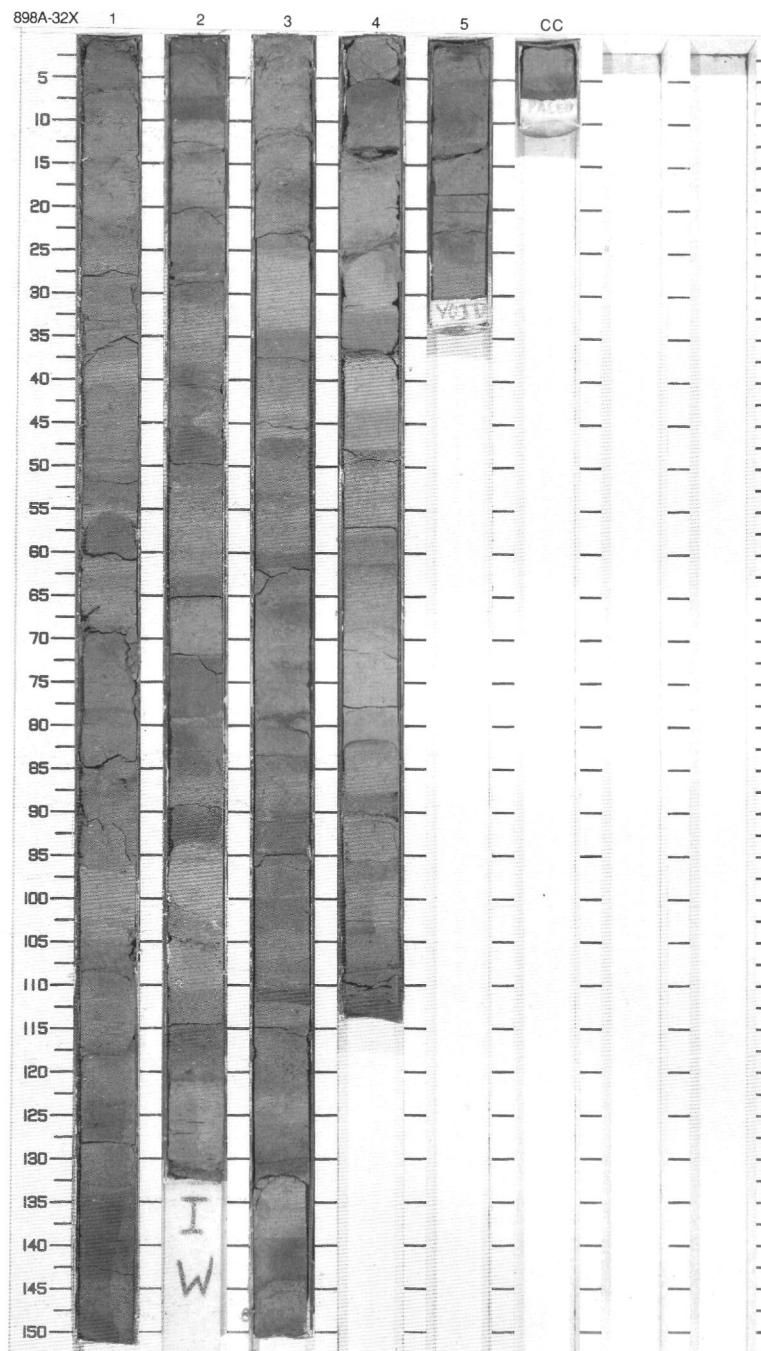
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1	late Oligocene	} } }	 	P	5G 4/1 To 5G 6/1	<p>SILTY CLAYSTONE, CLAYSTONE and NANNOFOSSIL CLAYSTONE</p> <p>Major Lithologies: The olive gray (5Y 4/1) or dark greenish gray (5G 4/1) SILTY CLAYSTONE or CLAYSTONE (60% of core) is mottled with greenish gray (4G 6/1) NANNOFOSSIL CLAYSTONE (30%).</p> <p>Minor Lithologies: Light olive gray (5Y 6/1) formaminifer rich SANDY SILTSTONE to fine SANDSTONE and FORAMINIFER SILTY CLAYSTONE.</p> <p>General Description: The core consists mainly of slightly darkening upwards, medium-bedded sequences (10–20 cm), pervasively bioturbated, dark greenish gray (5G 4/1) or olive gray (5Y 4/1) SILTY CLAYSTONE and CLAYSTONE. A few thin (1–5 cm) basal layer of light olive gray (5G 6/1) FORAMINIFER SILTSTONE to fine-grained SANDSTONE or FORAMINIFER CLAYSTONE occur, and make up 10% of core. Many sandy basal layers show parallel or cross-lamination. The ichnofauna includes Planolites, Zoophycos, and Chondrites.</p>
2	[Pattern]	2		~ ~ ~ } ~ ~ ~ } ~ ~ ~ }	 	P		
3	[Pattern]	3		~ ~ ~ } ~ ~ ~ } ~ ~ ~ }	 	P		
4	[Pattern]	3		Mn } Mn } Mn }	 	S S		
5	[Pattern]	4	Mn } Mn } Mn }	 	P			
6	[Pattern]	CC	Mn } Mn } Mn }	 	P M			



SITE 898 HOLE A CORE 32X

CORED 293.2 - 302.8 mbsf

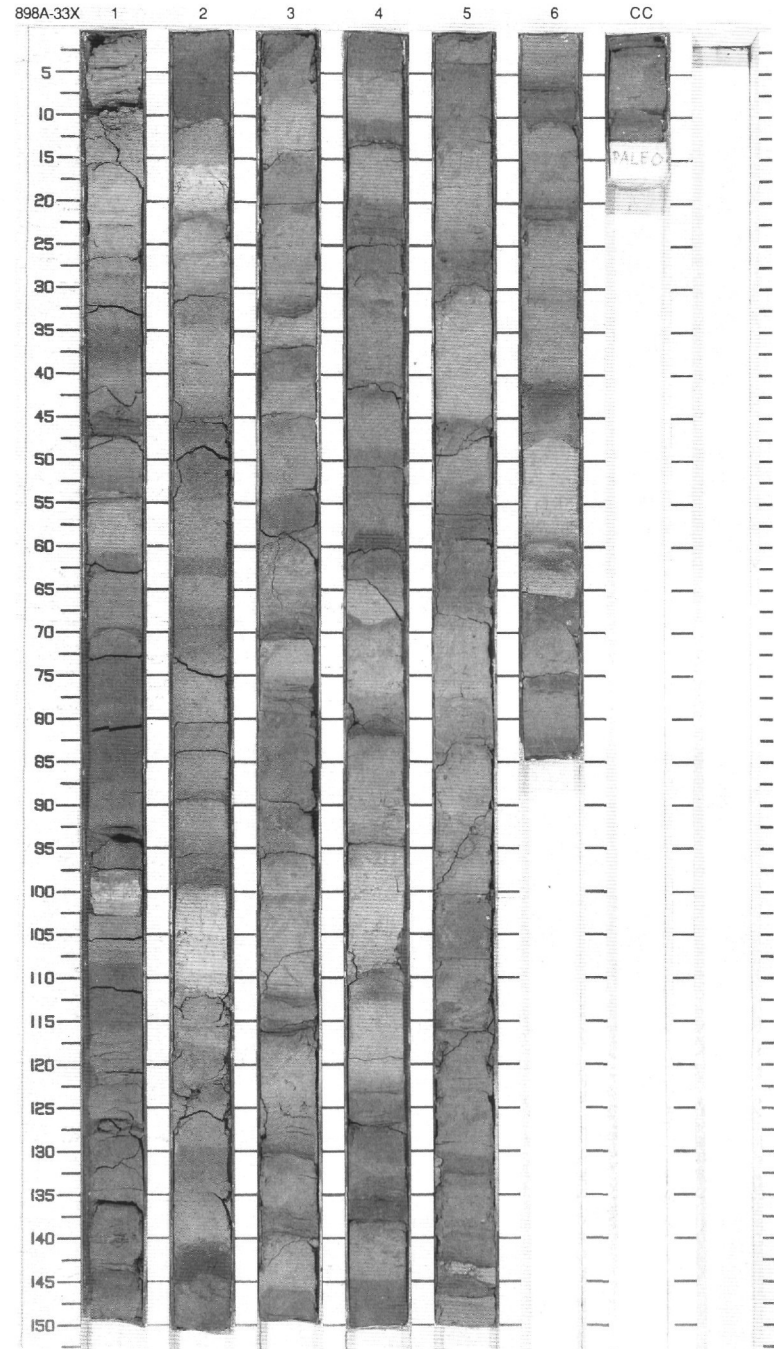
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	late Oligocene	}}	P		5G 4/1 To 5G 6/1	<p>SILTY CLAYSTONE, CLAYSTONE and NANNOFOSSIL CLAYSTONE</p> <p>Major Lithologies: The dark greenish gray (5G 4/1) or olive gray (5Y 4/1) CLAYSTONE is intensively mottled with SILT or SILTY CLAYSTONE (60% of core) and greenish gray (5G 6/1) NANNOFOSSIL CLAYSTONE (30%).</p> <p>Minor Lithologies: Light olive gray (5Y 6/1) foraminifer-rich SANDY SILTSTONE to fine-grained SANDSTONE and FORAMINIFER SILTY CLAYSTONE are minor lithologies.</p> <p>General Description: Slightly darkening upwards, sequences of medium-bedded (10-30 cm), pervasively bioturbated, dark greenish gray (5G 4/1) or olive gray (5Y 4/1) SILTY CLAYSTONE and CLAYSTONE with SILT occur throughout the core. Occasionally thin (2-5 cm) basal layers of light olive gray (5Y 6/1) FORAMINIFER SILTSTONE to fine-grained SANDSTONE or FORAMINIFER SILTY CLAYSTONE make around 10% of the core. Sandy basal layers frequently show parallel or cross-lamination. The ichnofauna includes Planolites and Chondrites.</p>
				}}				
2		2		}}	S			
				}}				
3		3		}}	P			
			}}	I				
4		4	}}	S				
			}}	P				
5		5	}}	P				
			}}	P				
6		CC	}}	M				



SITE 898 HOLE A CORE 33X

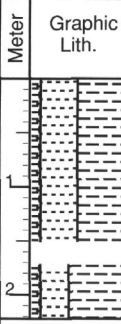
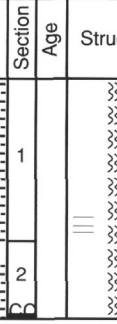
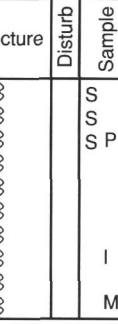
CORED 302.8 - 312.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Dotted pattern]	1	late Oligocene	[Wavy lines]	[Vertical lines]	S	5G 4/1 To 5G 6/1	<p>CLAYSTONE and NANNOFOSSIL CLAYSTONE</p> <p>Major Lithologies: Dark greenish gray (5G 4/1) CLAYSTONE makes up about 35% of the core. Greenish gray (5G 6/1) to olive gray (5Y 4/1) NANNOFOSSIL CLAYSTONE totals about 45% of the core lithologies.</p> <p>Minor Lithologies: Light olive gray (5Y 4/1) to greenish gray (5G 6/1) to medium gray (N5) SILTY SANDSTONE averages about 15% of the core. Light gray (N7) NANNOFOSSIL CHALK, and greenish gray (5G 6/1) to medium gray (N5) SANDY SILTY CLAYSTONE and SILICEOUS SANDY SILTSTONE together form 5% of the lithologies in the core.</p> <p>General Description: The core consists of numerous 5–30 cm thick sequences of SILTY SAND SANDSTONE, which is gradationally overlain by NANNOFOSSIL CLAYSTONE followed by CLAYSTONE. The basal SILTY SANDSTONE, which is not always present in the sequence, is laminated to cross laminated or is bioturbated and in places is lenticular. Some intervals of SILTY SANDSTONE show sharp tops and bases and occasionally a microfault. SANDY SILTY CLAYSTONE laminae are associated with the SILTY SANDSTONE.</p>
2	[Dotted pattern]	2		P				
3	[Dotted pattern]	3		S				
4	[Dotted pattern]	4		S				
5	[Dotted pattern]	5		S				
6	[Dotted pattern]	6		P				
7	[Dotted pattern]	7		P				
8	[Dotted pattern]	8		P				
	[Dotted pattern]	CC		M				



SITE 898 HOLE A CORE 34X

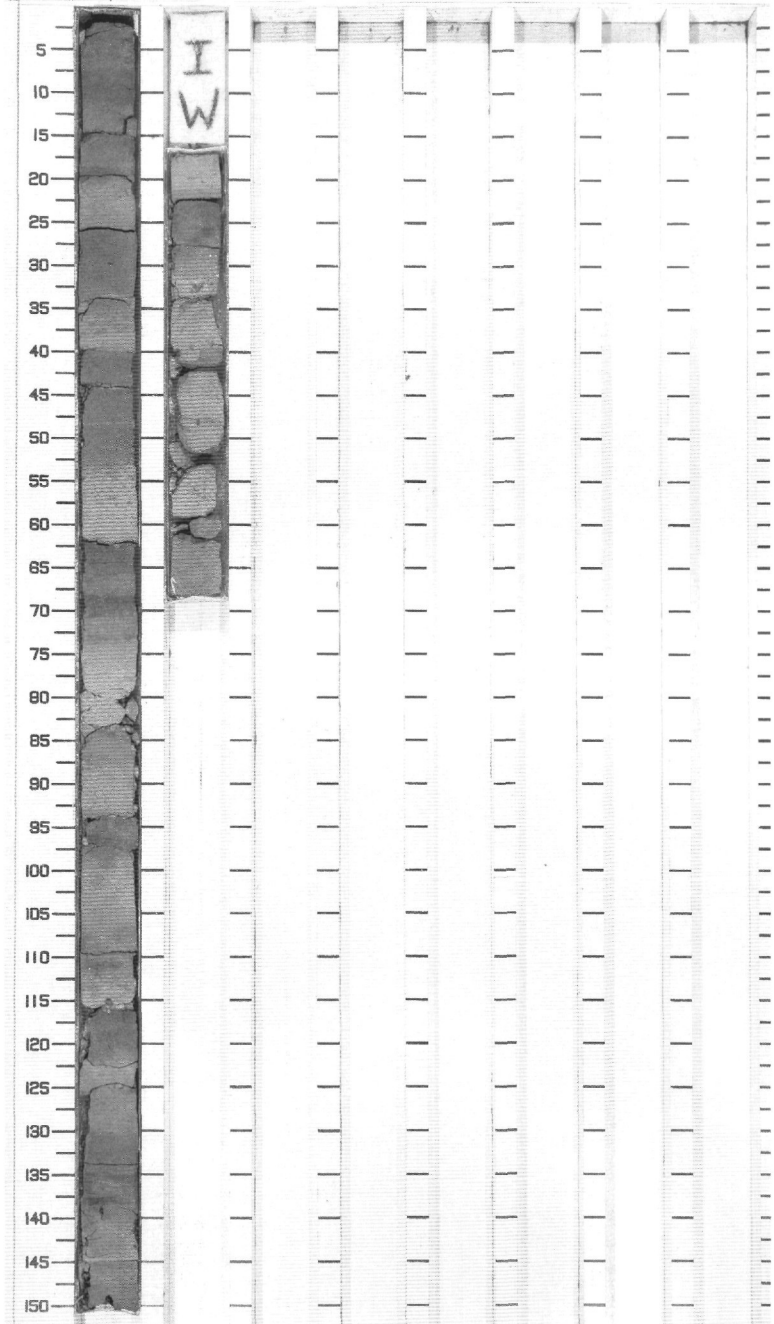
CORED 312.5 - 322.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		}}		S	5G	<p>CALCAREOUS SILTY CLAYSTONE and CLAYSTONE</p> <p>Major Lithologies: Greenish gray (5G 6/1) CALCAREOUS SILTY CLAYSTONE totals about 60% of the core and dark greenish gray (5G 6/1) CLAYSTONE about 30%.</p> <p>Minor Lithologies: Light olive gray (5Y 6/1) NANNOFOSSIL CLAYSTONE WITH SILT comprises about 10% of the core, while the CLAYEY SILTSTONE makes up less than 1% of the core.</p> <p>General Description: The core has medium-bedded color bands formed primarily by the alternation of CLAYSTONE and CALCAREOUS SILTY CLAYSTONE.</p>
		2		}}		I	4/1 To 5G 6/1	
				}}		M		

898A-34X

1

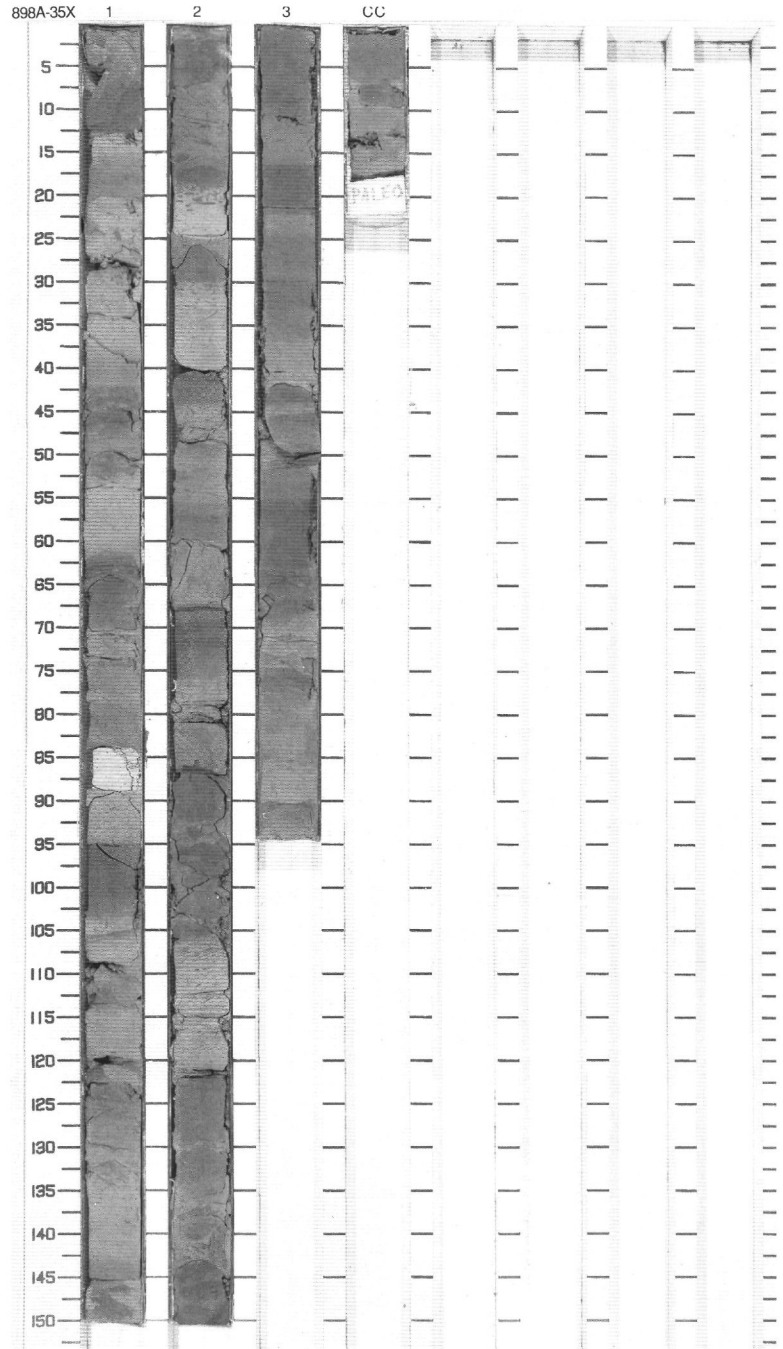
2



SITE 898 HOLE A CORE 35X

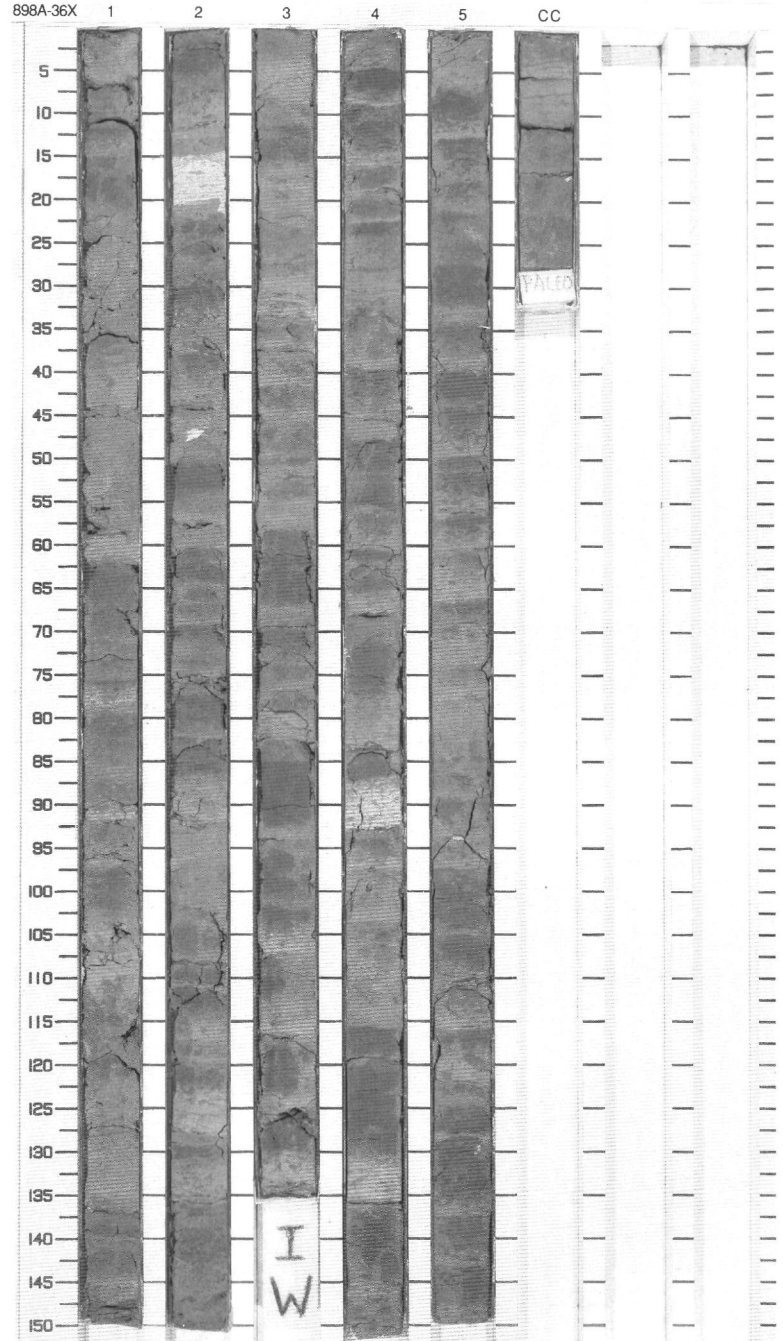
CORED 322.2 - 331.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1	late Oligocene	} } }	V V V - - - V - -	S P S	5G 4/1 To 5G 6/1 N8	<p>SILTY CLAYSTONE, CLAYSTONE and NANNOFOSSIL CLAYSTONE</p> <p>Major Lithologies: The greenish gray (5G 6/1) or very light gray (N8) NANNOFOSSIL CLAYSTONE is mottled with olive gray (5Y 4/1) or dark greenish gray (5G 4/1) CLAYSTONE or SILTY CLAYSTONE.</p> <p>Minor Lithologies: The greenish gray (5G 6/1) foraminifer-rich SANDY SILTSTONE to fine-grained SANDSTONE and FORAMINIFERA SILTY CLAYSTONE are minor lithologies.</p> <p>General Description: Pervasively bioturbated, slightly upwards-darkening, medium-bedded sequences (10 to 20 cm) are composed of SILTY CLAYSTONE or CLAYSTONE. Some of them contain thin (<1 cm) basal FORAMINIFERAL SILTY CLAYSTONE to fine-grained SANDSTONE or FORAMINIFERAL SILTY CLAYSTONE showing parallel or cross-lamination. The ichnofauna includes Planolites and Chondrites.</p>
2	[Pattern]	2		} } }	- - - - - - - - -	P	5G 4/1 To 5G 6/1	
3	[Pattern]	3		} }	V V V - - -	P S		
4	[Pattern]	CC		} }	V V V - - -	M		



SITE 898 HOLE A CORE 36X CORED 331.9 - 341.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1	late Oligocene	}}	W	S	5Y 4/1 To 5GY 6/1	<p>NANNOFOSSIL CLAYSOTNE and SILTY CLAYSTONE</p> <p>Major Lithologies: NANNOFOSSIL CLAYSTONE is olive gray (5Y 4/1) in color and comprises 78% of the core. SILTY CLAYSTONE is dark greenish gray (5GY 4/1) in color and forms 20% of the core.</p> <p>Minor Lithologies: SILTY SANDSTONE is greenish gray (5GY 6/1) in color and forms about 3% of the core. Two intervals of NANNOFOSSIL CHALK occur: Section 2, 15–20 cm (very light gray: N8) and Section 4, 87–92 cm (light greenish gray: 5GY 8/1).</p> <p>General Description: In Sections 1–3, the core shows a repetition of medium thickness upwards darkening intervals, some of which have SILTY SANDSTONES at their bases which are up to 2 cm thick; some contain parallel laminae. The remainder of the units are composed of NANNOFOSSIL CLAYSTONE which varies in color from greenish gray (5GY 6/1) to olive gray (5Y 4/1). In Sections 4 and 5, SILTY SANDSTONE beds are less common, and the color banding changes to an alternation of olive gray (5Y 4/1) NANNOFOSSIL CLAYSTONE and greenish gray (5GY 4/1) SILTY CLAYSTONE.</p>
2	[Pattern]	2		}}	W	P		
3	[Pattern]	3		}}	W	P		
4	[Pattern]	4		}}	W	P		
5	[Pattern]	5		}}	W	P		
7	[Pattern]	CC				M		



SITE 898 HOLE B CORE 1H

CORED 0.0 - 5.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.0 - 1.0	[Pattern]	1	Quaternary	...	WW	P	10YR 4/2	SILTY SAND and CALCAREOUS SILTY CLAY
1.0 - 2.0	[Pattern]	2		...	OO	P	10YR 4/2 To 5Y 4/1	Major Lithologies: Dark yellowish brown (10YR 4/2) or pale yellowish brown (10YR 6/1) SILTY SAND (33% of core) with fine-to medium-grained size SAND (Section 1), changes in color to olive gray (5Y 4/1) and yellowish gray (5Y 8/1) in the other sections, the different colors are mottled. The thickness of sand layers varies between 10 to 30 cm.
2.0 - 3.0	[Pattern]	3		...	I	P	10YR 6/2 To 10YR 7/2	CALCAREOUS SILTY CLAY of yellowish gray (5Y 8/1) and light olive gray (5Y 6/1) represents 50% of this core.
3.0 - 4.0	[Pattern]	4		Mn ... Mn ...	S	S	5Y 5/2 To 5Y 7/2	Minor Lithologies: Dark yellowish gray (10YR 6/6) and occasionally light olive gray (5Y 5/1) NANNOFOSSIL-FORAMINIFER SILTY CLAY makes up the minor lithology.
4.0 - 5.4	[Pattern]	CC				M		General Description: The core consists of several normal graded sequences (10 to 40 cm thick) with a basal SILTY SAND LAYER grading upwards into CALCAREOUS SILTY CLAY and NANNOFOSSIL-FORAMINIFER SILTY CLAY.

