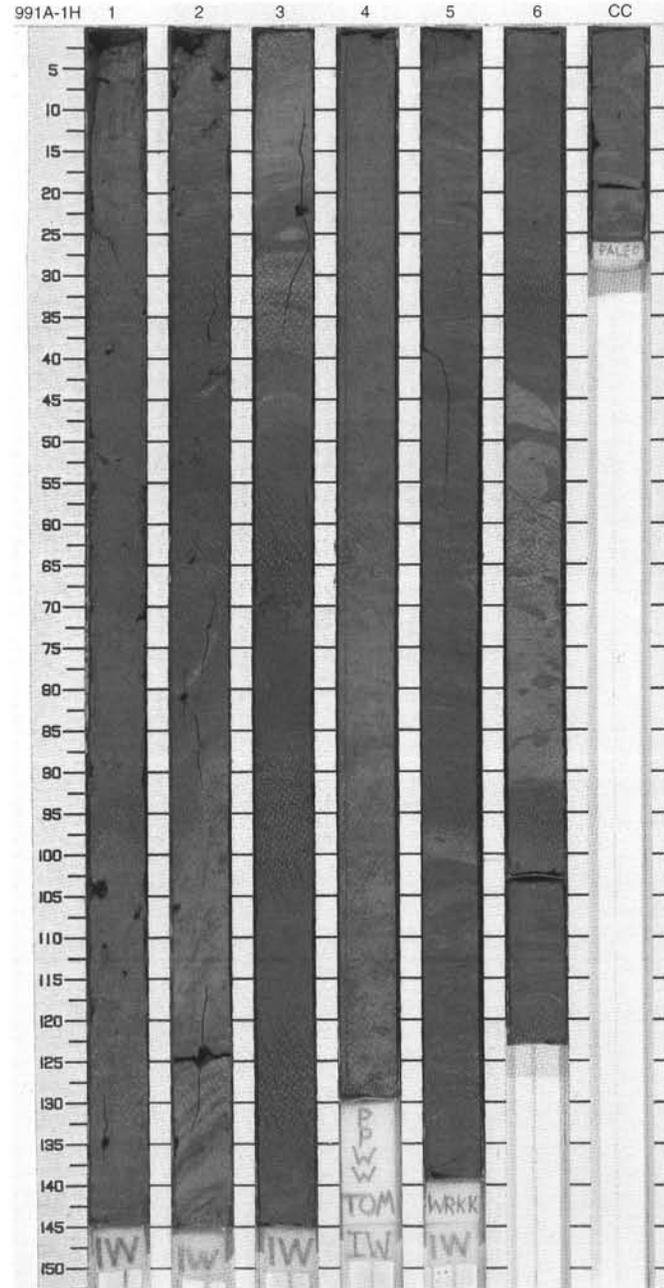


Information in this section, for all sites, represents field notes taken aboard ship. Some of this information has been refined in accord with post-cruise findings, but production schedules prohibit definitive correlation of these forms with subsequent findings. Thus, the reader should be alerted to ambiguities or discrepancies in this unedited material.

SITE 991 HOLE A CORE 1H

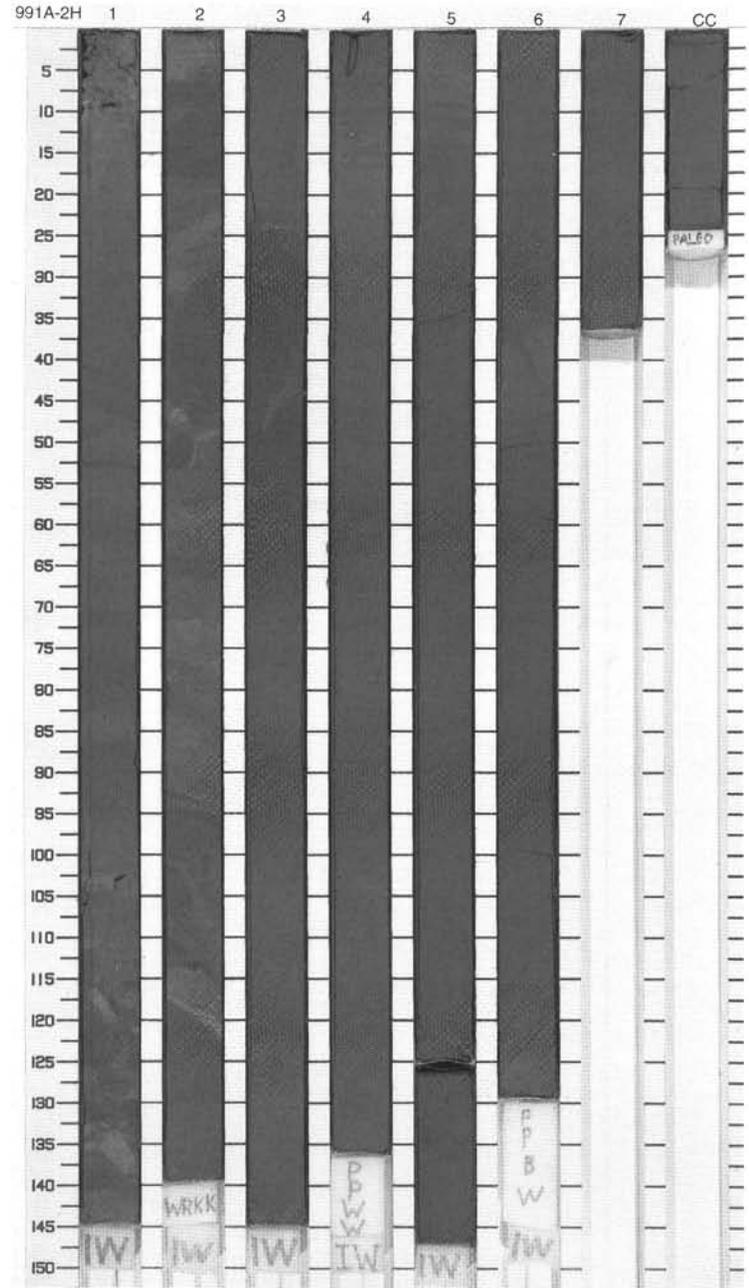
CORED 0.0 - 9.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1	late Pleistocene	I	I	S D C	5YR 6/1	<p>NANNOFOSSIL SILTY CLAY</p> <p>Major Lithology: Section 1 of this core is composed of homogeneous gray (5YR-6/1) NANNOFOSSIL SILTY CLAY. Sections 2 through 6 are composed of variegated greenish-gray (5GY-5/1 TO 5GY-6/1) deformed NANNOFOSSIL SILTY CLAY. Deformation is characterized by discordant dipping beds and laminae, folds, rare mud clasts, and plastic deformation of beds and burrows.</p> <p>Minor Lithologies: PTEROPOD-RICH SILTY CLAY occurs in Section 2, 20-55 cm. The pteropod content increases downward throughout this interval.</p>
2	[Pattern]	2					5GY 5/1	
3	[Pattern]	3					5GY 5/1 To 5GY 6/1	
4	[Pattern]	4					5GY 5/1	
5	[Pattern]	5					5GY 6/1	
6	[Pattern]	6					5GY 5/1 To 5GY 6/1	
8	[Pattern]	CC		I W	I W	W	5GY 5/1	



SITE 991 HOLE A CORE 2H CORED 9.1 - 18.6 mbsf

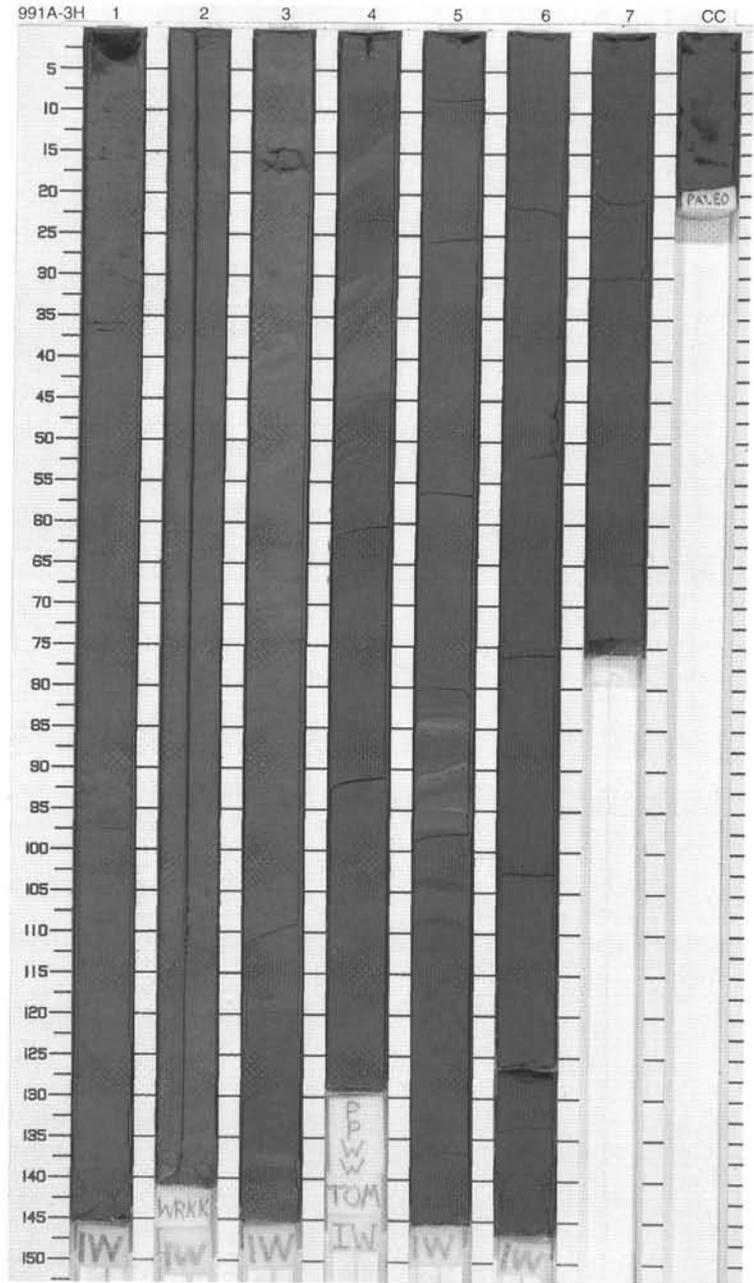
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Checkered lithology pattern]	1	late Pleistocene	[Symbol: diamond]	[Symbol: X]	S	5GY 5/1	<p>NANNOFOSSIL SILTY CLAY</p> <p>Major Lithology: This core consists of varying light gray to greenish gray (5GY-5/1 to 5Y-5/2,4/3) NANNOFOSSIL SILTY CLAY. From the top of Section 1 through Section 3, 50 cm, the sediment is slightly to moderately bioturbated and contains mudclasts and dipping and folded sediment layers. Small shell fragments are irregularly dispersed throughout this interval. From Section 3, 50 cm, through Section CC, the sediment is relatively homogenous with a few coarse-grained shell-rich layers.</p>
2							5Y 7/1 To 5Y 5/2	
3							5Y 4/3	
4							5Y 5/2	
5								
6							5Y 4/3	
7							5Y 5/3	
8			early Pleistocene				5Y 5/2	
9								
		CC						



SITE 991 HOLE A CORE 3H

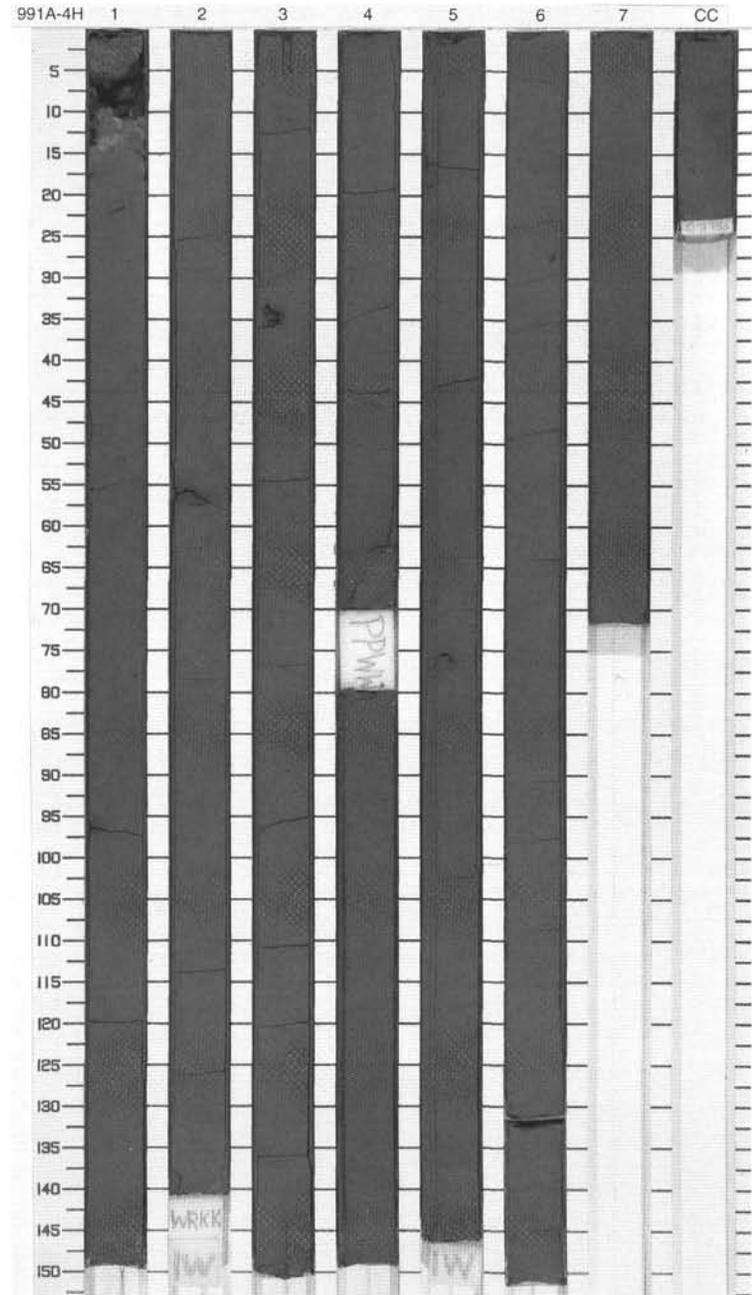
CORED 18.6 - 28.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[checkered pattern]	1	late Pleistocene	[wavy lines]	O	S D C	5Y 5/2	NANNOFOSSIL-RICH SILTY CLAY and NANNOFOSSIL SILTY CLAY Major Lithologies: This core consists of variegated olive gray (5Y 4/1 to 5Y 6/2), NANNOFOSSIL SILTY CLAY and NANNOFOSSIL-RICH SILTY CLAY. Contorted and dipping beds and laminae occur from Section 3, 120 cm, through Section 5, 110 cm.
2	[checkered pattern]	2						
3	[checkered pattern]	3	early Pliocene	[wavy lines]	I W	S D C	5Y 5/2 To 5Y 5/1	
4	[checkered pattern]	4						
5	[checkered pattern]	5	early Pliocene	[wavy lines]	I W	S D C	5Y 4/2 To 5Y 6/2	
6	[checkered pattern]	6						
7	[checkered pattern]	7	early Pliocene	[wavy lines]	I W	S D C	5Y 4/1	
8	[checkered pattern]	8						
9	[checkered pattern]	9						
		CC						



SITE 991 HOLE A CORE 4H CORED 28.1 - 37.6 mbsf

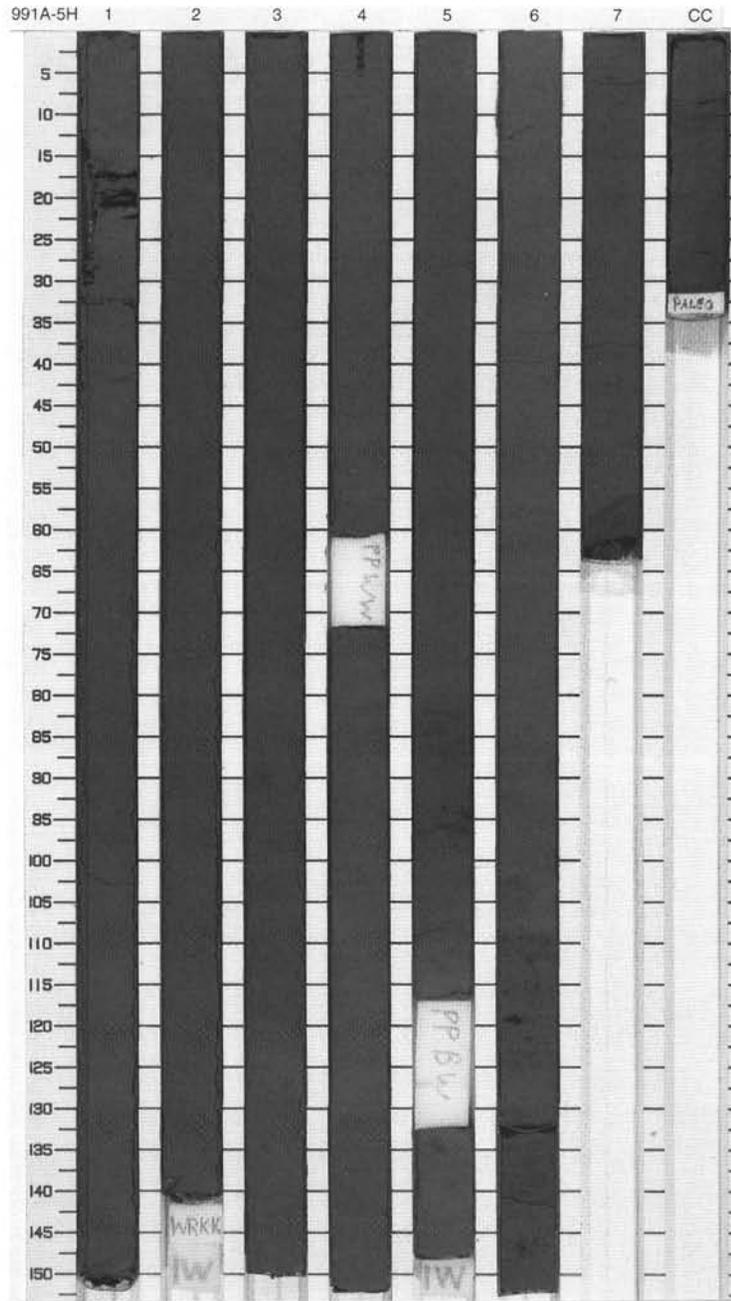
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[checkered]	1	early Pliocene	⓪	○	S	5Y 4/2	<p>NANNOFOSSIL-RICH CLAY</p> <p>Major Lithology: This core consists of variegated olive gray (5Y 4/2 to 5Y 5/2) NANNOFOSSIL-RICH CLAY. It is moderately bioturbated and generally homogeneous. Faint bedding planes are steeply inclined in Sections 1 through 3, and horizontal to gently inclined in Sections 4 through 6. Steeply inclined bedding and flow deformation are observed in Sections 7 and CC. Rare dispersed shell fragments occur in the upper part of the core.</p>
2	[horizontal lines]	2		⓪	S			
3	[horizontal lines]	3		⓪	S DC			
4	[horizontal lines]	4		⓪	I W	5Y 4/2 To 5Y 4/3		
5	[horizontal lines]	5		⓪	W			
6	[horizontal lines]	6		⓪	S DC	5Y 4/2		
7	[horizontal lines]	7		⓪	I			
8	[horizontal lines]	6	⓪	W	5Y 5/2 To 5Y 4/2			
9	[horizontal lines]	7	⓪					
		CC						



SITE 991 HOLE A CORE 5H

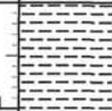
CORED 37.6 - 47.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description		
1	[Graphic Lithology: Hatched patterns for sections 1-7, and a checkerboard pattern for CC]	1	early Pliocene	V 2		S	5Y 4/1	<p>NANNOFOSSIL-RICH CLAY</p> <p>Major Lithology: The core is composed of dark gray to olive gray (5Y-4/1 to 2.5/1, 5Y-4/2) NANNOFOSSIL-RICH CLAY with fine grained disseminated carbonate rhombs. Pyrite (both as disseminated grains and in concentrated patches of framboids), carbonate rhombs, and glauconite increase in abundance towards the base of the core. The sediment shows moderate to intense bioturbation throughout. Bedding is generally horizontal to gently inclined. Contorted bedding occurs at the bottom of Section 7 and in Section CC.</p>		
2		S D C								
3		I W								
4										
5									5Y 5/1	
6										
7										5Y 4/2
8										
9										
		late Miocene								
		CC						5Y 3/1 To 5Y 2.5/1		



991B-1P NO RECOVERY

SITE 991 HOLE B CORE 2P CORED 50.0 - 51.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	late Miocene			I	5GY 4/1	NANNOFOSSIL-BEARING CLAYEY SILT Major Lithology: This core consists of dark gray (5GY-4/1) homogeneous NANNOFOSSIL-BEARING CLAYEY SILT.

