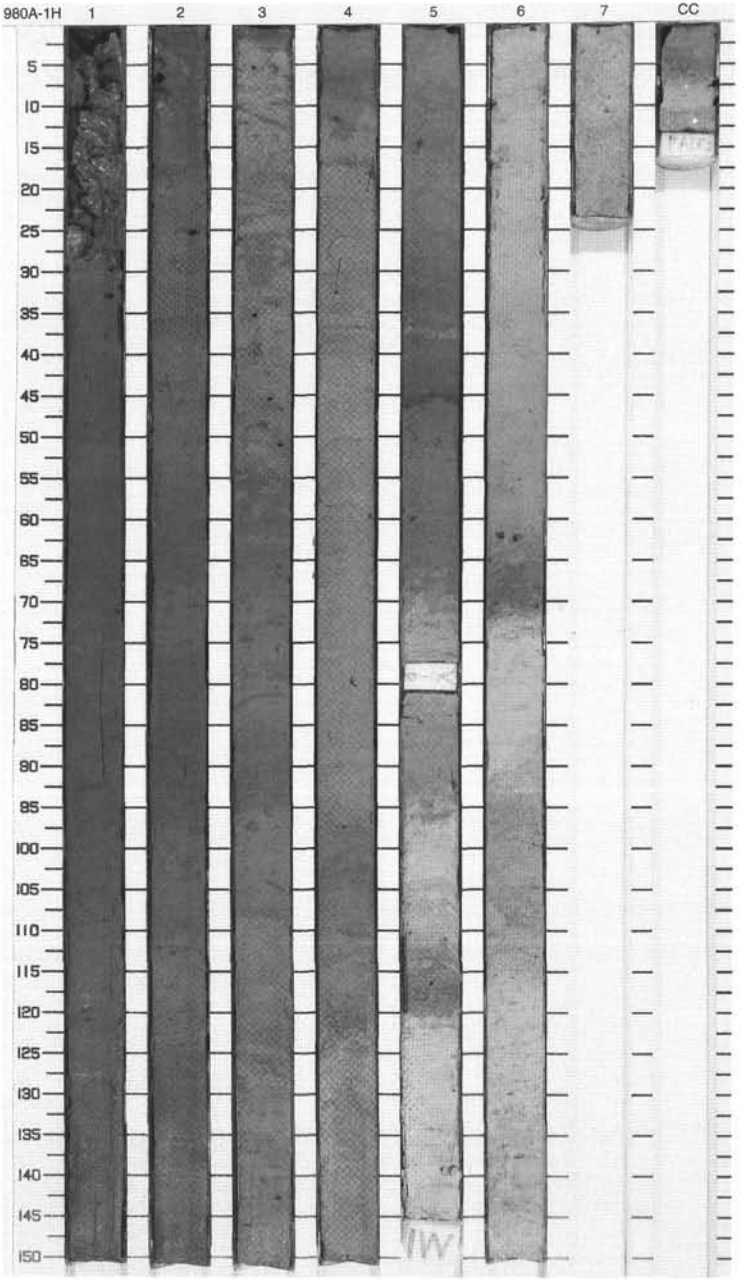
Information in this section, for all sites, represents field notes taken aboard ship. Some of this information has been refined in accord with post-cruise findings, but production schedules prohibit definitive correlation of these forms with subsequent findings. Thus, the reader should be alerted to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

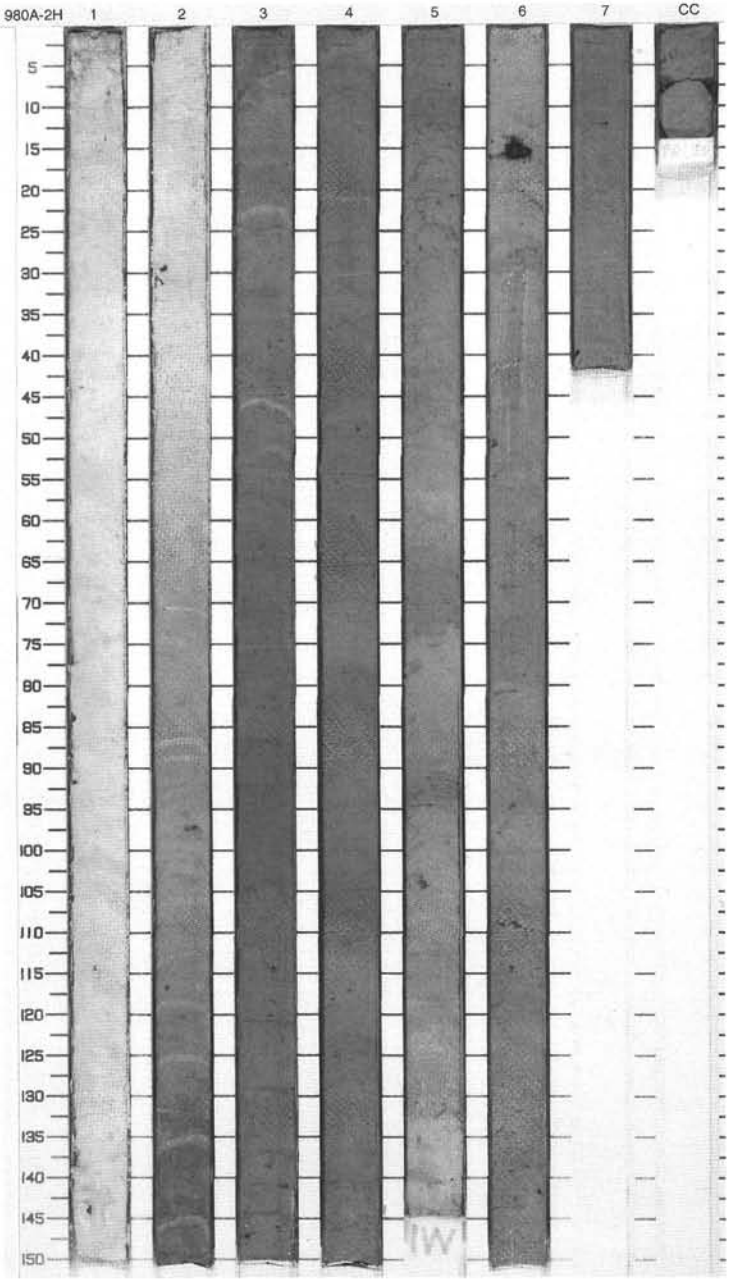
SITE 980 HOLE A CORE 1H CORED 0.0 - 9.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–6, 7, CC	Pleistocene		○○	S, P S, P D, P, P S, P, P D, P, P S I, P, P M	7.5YR 4/2; 7.5YR 4/2 To 10YR 5/1; 10YR 5/1; 7.5YR 4/2 To 5Y 6/1; 5Y 6/1; 7.5YR 4/2; 5Y 6/1	SILTY CLAY WITH SAND, CLAYEY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS and CLAY Minor Lithologies: CLAYEY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS General Description: This core contains brown (7.5YR 4/2) and gray (10YR 5/1) SILTY CLAY WITH SAND interbedded with gray (10YR 5/1) CLAY and gray (5Y 6/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS. Bioturbation is evident throughout, ranging from slight to heavy. Color changes are pronounced, with gradational contacts. The uppermost part of the core is soupy due to coring disturbance.

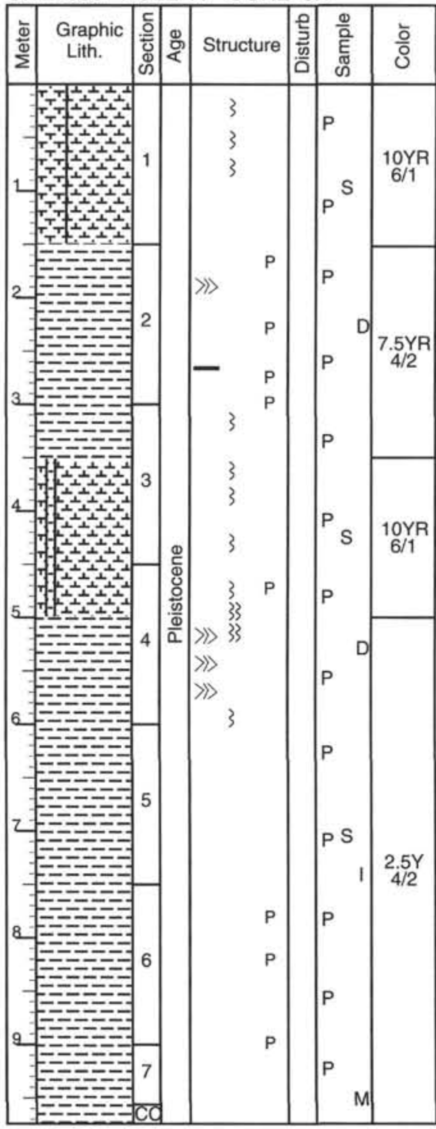


SITE 980 HOLE A CORE 2H CORED 9.4 - 18.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–7, CC	Pleistocene				2.5Y 6/2; 2.5Y 6/2 To 5Y 5/1; 5Y 4/1; 5Y 5/1; 5Y 4/1	NANNOFOSSIL SILTY CLAY, NANNOFOSSIL OOZE WITH FORAMINIFERS AND QUARTZ and CLAYEY SILT WITH QUARTZ, FELDSPARS AND NANNOFOSSILS General Description: This core contains dark gray (5Y 4/1) NANNOFOSSIL SILTY CLAY alternating with gray (5Y 5/1) CLAYEY SILT WITH QUARTZ, FELDSPARS AND NANNOFOSSILS. The top of the core contains light brownish gray (2.5Y 6/2) NANNOFOSSIL OOZE WITH FORAMINIFERS AND QUARTZ. The entire core is fine-grained homogenous and shows slight zoophycus burrowing. The color changes are gradational. Disseminated pyrite occurs in thin horizons and a pyrite nodule is located at the top of Section 6.



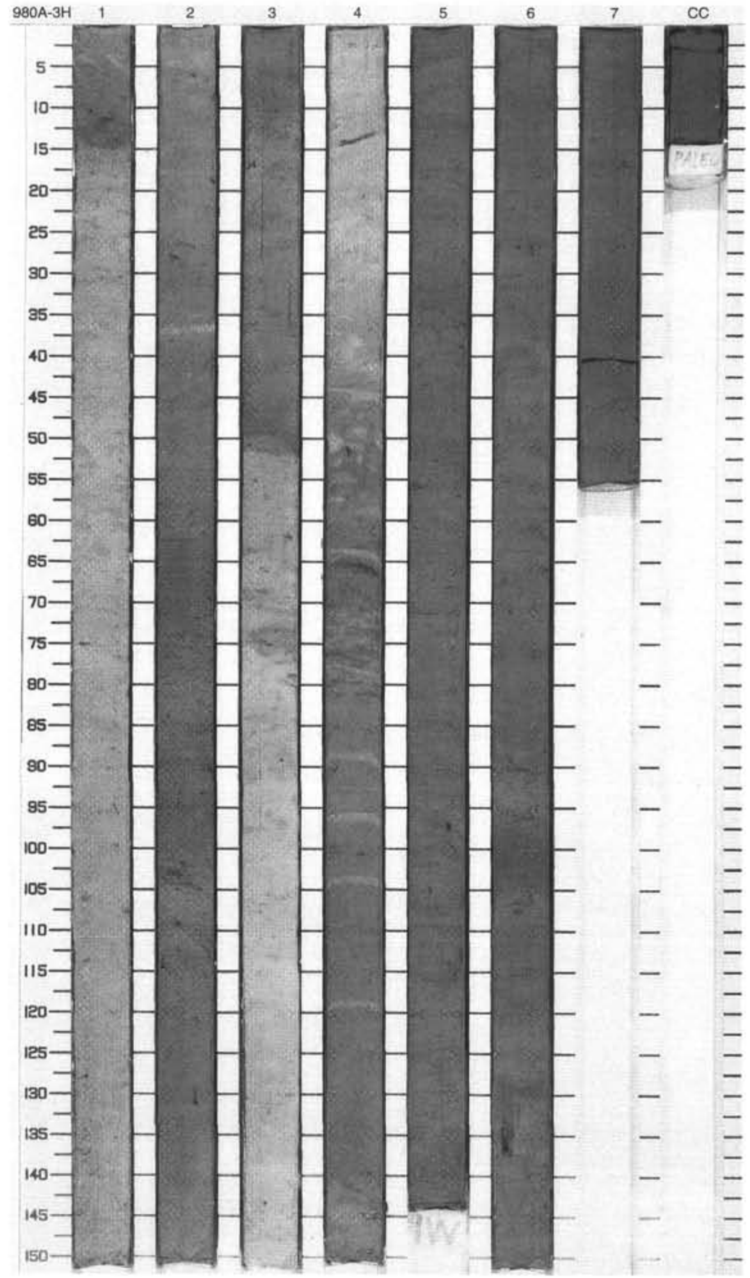
SITE 980 HOLE A CORE 3H CORED 18.9 - 28.4 mbsf



Description

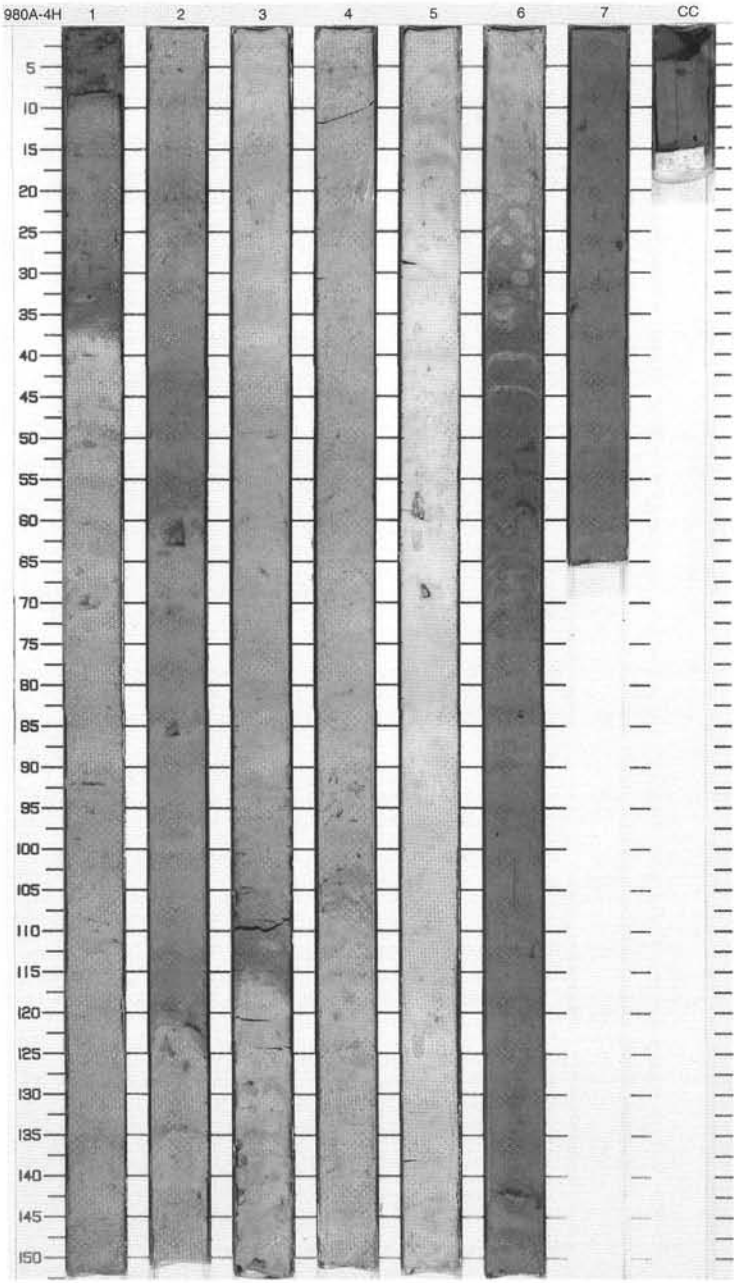
NANNOFOSSIL OOZE WITH FORAMINIFERS and NANNOFOSSIL OOZE WITH CLAY

General Description:
The core contains dark grayish brown (2.5Y 4/2) and brown (7.5YR 4/2) SILTY CLAY alternating with gray (10YR 6/1) NANNOFOSSIL OOZE WITH FORAMINIFERS or WITH CLAY. The core is homogenous and mainly silty. Small blubs of pyrite are disseminated in thin horizons. The core is slightly to moderately bioturbated in its upper part. A faint greenish layer is situated at 110 cm in Section 2.



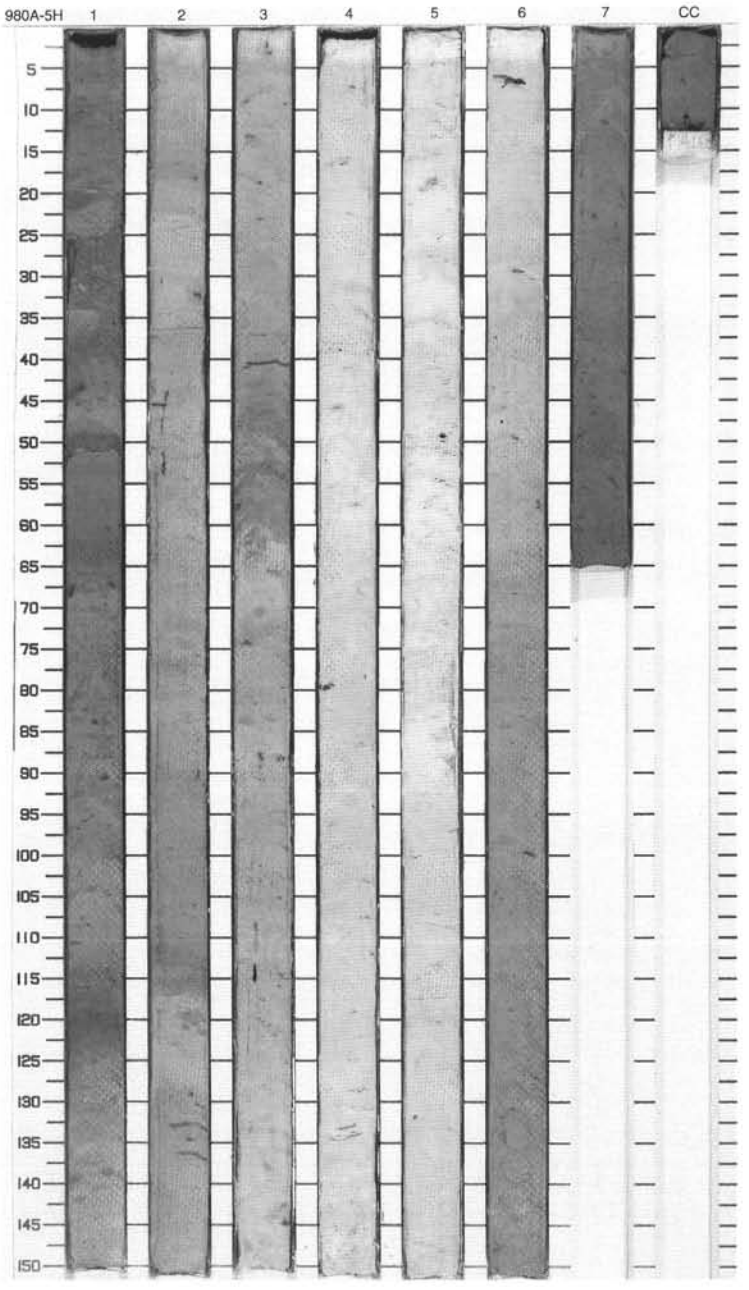
SITE 980 HOLE A CORE 4H CORED 28.4 - 37.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–7, CC	Pleistocene	P; ≋; ⋙; ⋘; Ⓟ	I	P; S; D; M	5Y 4/1; 2.5Y 6/2; 5Y 5/1; 2.5Y 6/2 To 5Y 5/1; 2.5Y 6/2; 5Y 5/1; 2.5Y 6/2; 5Y 4/1	NANNOFOSSIL OOZE and SILTY CLAY WITH NANNOFOSSILS AND QUARTZ General Description: This core contains light brownish gray (2.5Y 6/2) NANNOFOSSIL OOZE interbedded with dark gray (5Y 4/1) SILTY CLAY WITH NANNOFOSSILS AND QUARTZ. The uppermost part of the core is disturbed due to coring disturbance. The core is slightly bioturbated througout. Disseminated pyrite occurs in thin horizons and burrows. Some horizontal distinct burrows are located in Section 6. A small (0.8 cm diameter) black dropstone occurs at 83 cm in Section 6.



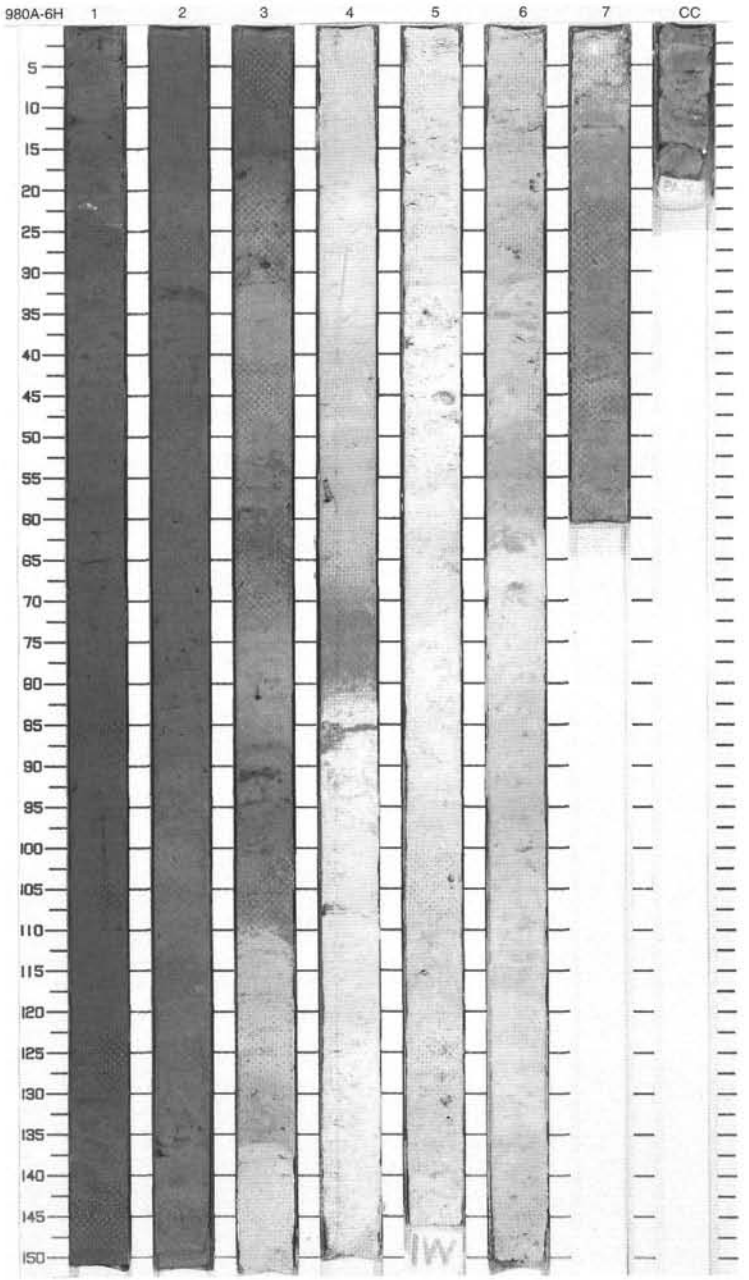
SITE 980 HOLE A CORE 5H CORED 37.9 - 47.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene		VV	P, P S, P	10YR 5/1 To 2.5Y 6/2	NANNOFOSSIL OOZE WITH SAND AND FORAMINIFERS and NANNOFOSSIL OOZE General Description: This core contains light gray (5Y 7/1) and light brownish gray (2.5Y 6/2) NANNOFOSSIL OOZE alternating with light gray (10YR 5/1) NANNOFOSSIL OOZE WITH SAND AND FORAMINIFERS. Color changes are pronouced and contacts are gradational within Sections 3 and 6. The core is slightly bioturbated. Disseminated pyrite occurs in several sections.
		2				P, P D, P	2.5Y 6/2	
							5Y 7/1	
		3		P, P, P		P	2.5Y 6/2 To 5Y 7/1	
		4				S D, P		
		5		P		P, P	5Y 7/1	
		6		P, P, P, P		P, S	2.5Y 6/2	
		7		P		P M	10YR 5/1	
		CC						



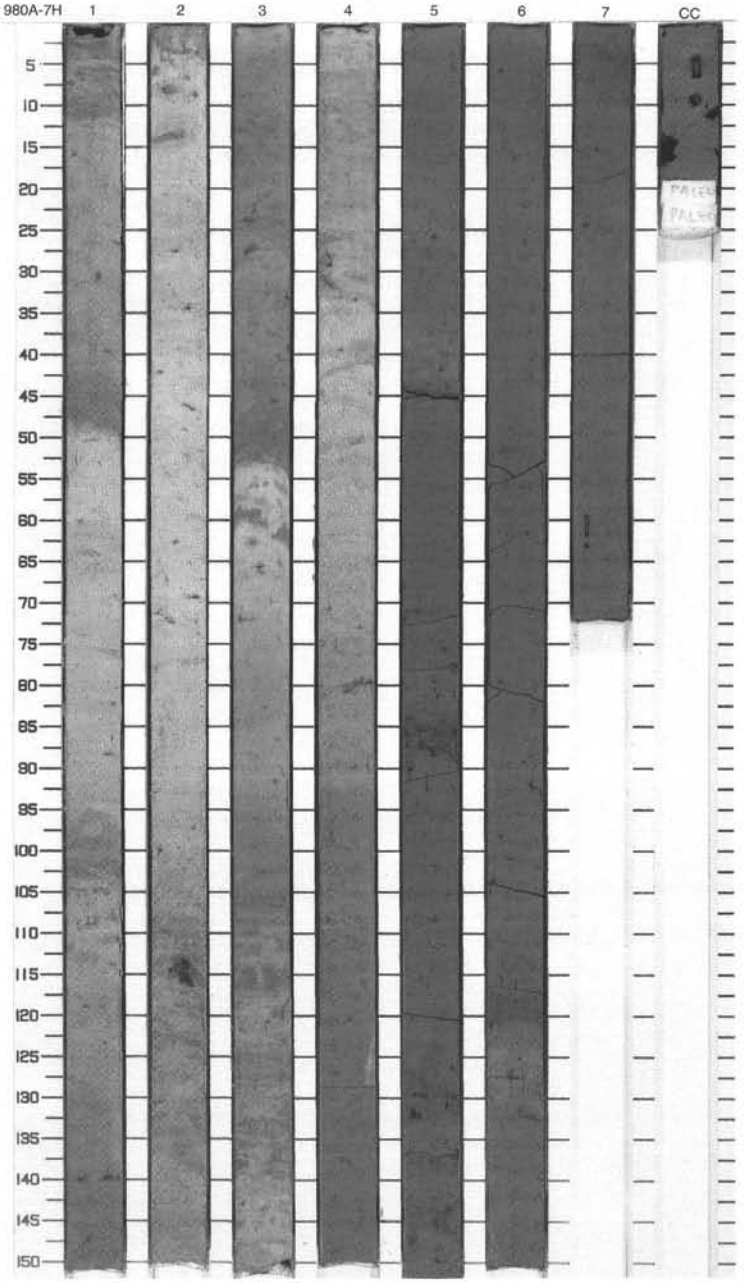
SITE 980 HOLE A CORE 6H CORED 47.4 - 56.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–8	Pleistocene				5Y 3/1; 5Y 3/1 To 2.5Y 5/2; 2.5Y 7/2; 2.5Y 5/2; 2.5Y 7/2; 2.5Y 5/2; 2.5Y 7/2; 5Y 3/1	SILTY CLAY WITH NANNOFOSSILS and NANNOFOSSIL OOZE WITH FORAMINIFERS General Description: This core contains very dark gray (5Y 3/1) SILTY CLAY WITH NANNOFOSSILS in the upper sections and light gray (2.5Y 7/2) to grayish brown (2.5Y 5/2) NANNOFOSSIL OOZE with varying amount of foraminifers. The color changes are gradational. Some distinct, and thin greenish layers occur in several sections. In general, the core is slightly bioturbated with some moderate bioturbated intervals. Disseminated pyrite occurs in both burrows and thin horizons.



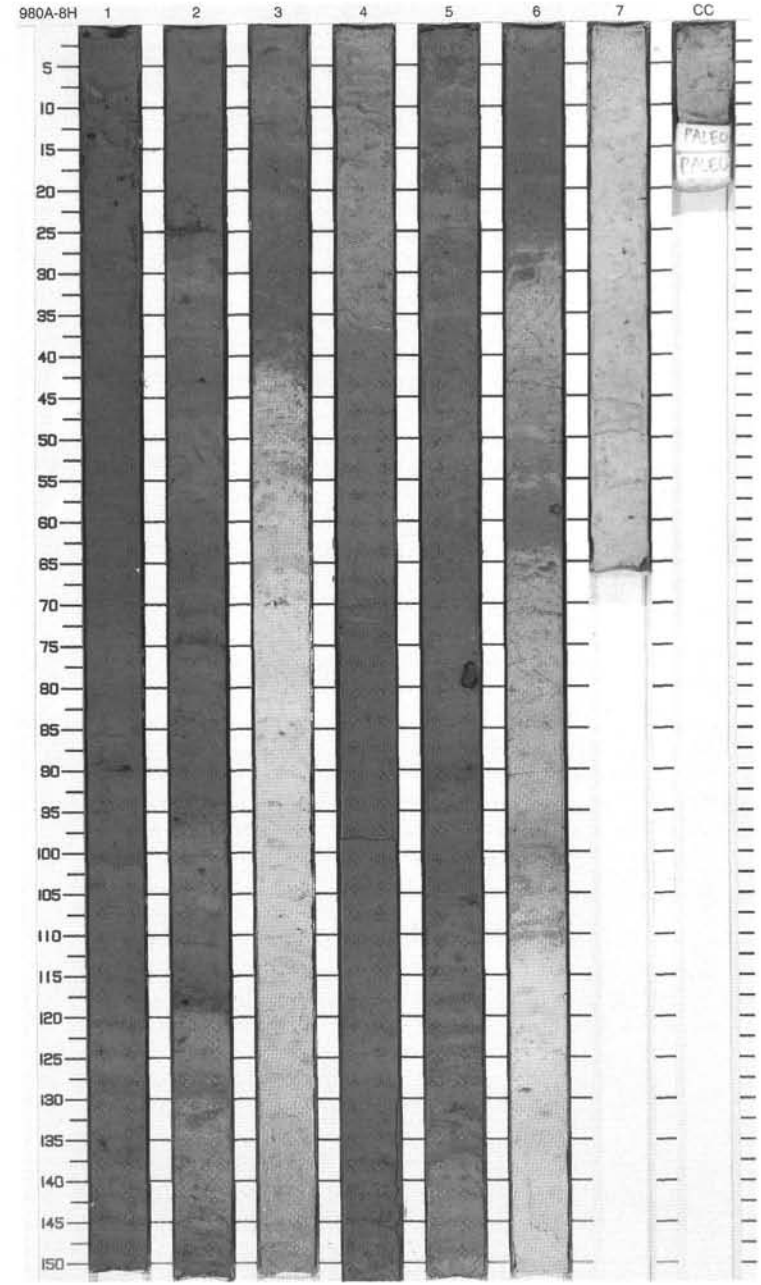
SITE 980 HOLE A CORE 7H CORED 56.9 - 66.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene			P	5Y 5/1	NANNOFOSSIL OOZE and NANNOFOSSIL OOZE WITH SILTY CLAY General Description: This core contains interbedded gray (5Y 6/1) NANNOFOSSIL OOZE alternating with dark gray to gray (5Y 4/1 to 5Y 5/1) NANNOFOSSIL OOZE WITH SILTY CLAY. The color contrasts are distinct, and the color transitions are gradational. Bioturbation is evident throughout the core, ranging from minor to moderate. Dark bands of SILTY CLAY occur in Sections 5 and 6. The uppermost 10 cm interval of Section 1 is homogenized due to drilling disturbance.
							5Y 6/1	
						P	5Y 5/1	
		2				P	5Y 6/1	
						P S D		
						P	5Y 5/1	
		3				P	5Y 5/1 To 5Y 6/1	
						P		
		4				P D	5Y 6/1	
						P	5Y 5/1 To 5Y 4/1	
		5				P		
						P		
		6				P S	5Y 4/1	
						P S		
		7				P		
		CC		Ⓟ		M		



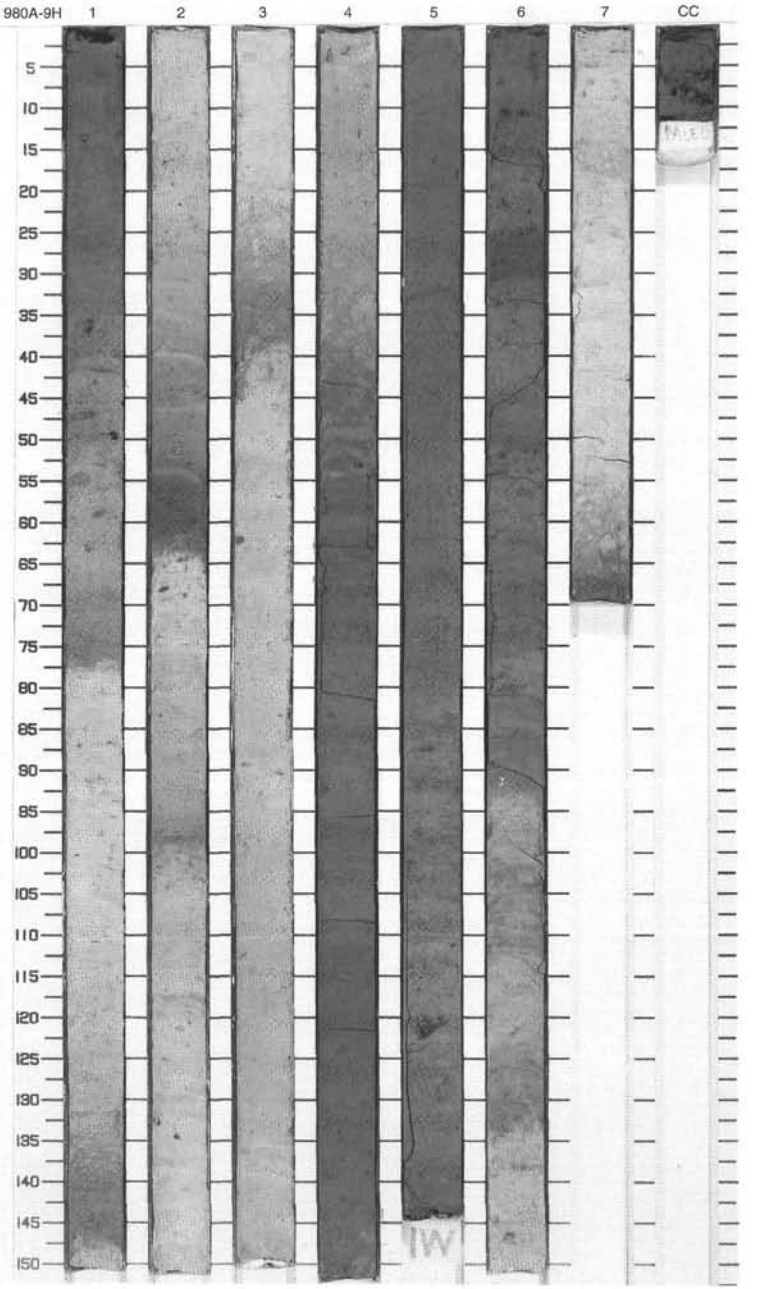
SITE 980 HOLE A CORE 8H CORED 66.4 - 75.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–7	Pleistocene	P, P, P, ◇		S, D, D, D, S, M	5Y 3/1 To 5Y 4/1; 5Y 3/1; 5Y 4/1; 2.5Y 6/2; 5Y 5/1; 2.5Y 6/2	NANNOFOSSIL OOZE and CLAYEY SILT WITH NANNOFOSSILS AND SAND General Description: This core contains light brownish gray (2.5Y 6/2) to gray (5Y 5/1) NANNOFOSSIL OOZE and very dark gray to dark gray (5Y 3/1 to 5Y 4/1) CLAYEY SILT WITH NANNOFOSSILS AND SAND. Most color changes are gradational. Distinct thin greenish bands occur in Sections 1 to 3. Coarse fraction is higher at Section 4, 135 cm to Section 4, 65cm, and at Section 6, 65–130 cm. Disseminated pyrite occurs in thin bands in Sections 1 to 3. A 2cm-sized subrounded basaltic dropstone is present at Section 5, 77–79cm.



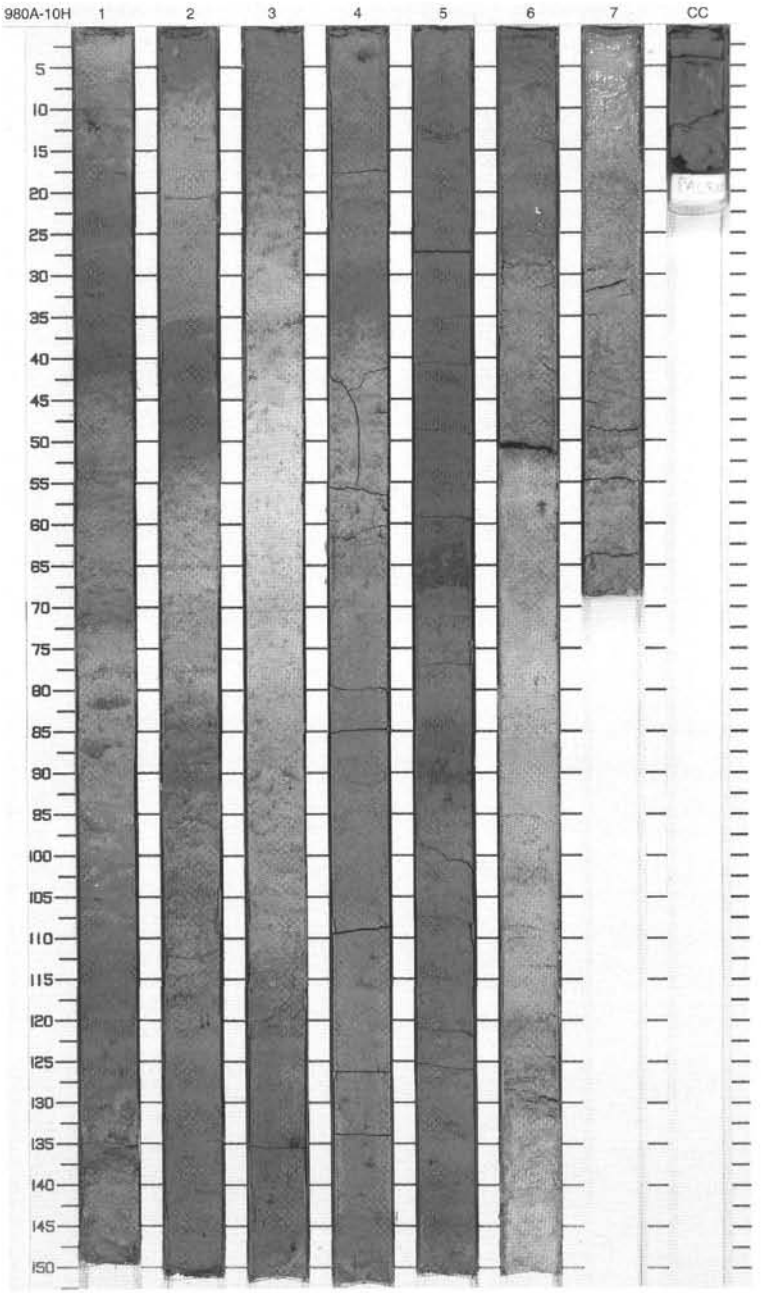
SITE 980 HOLE A CORE 9H CORED 75.9 - 85.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	Pleistocene		I	S	5Y 4/1 To 5Y 5/1	CLAYEY NANNOFOSSIL MIXED SEDIMENT WITH QUARTZ and NANNOFOSSIL OOZE WITH CLAY General Description: This core contains light brownish gray (2.5Y 6/2) NANNOFOSSIL OOZE with clay and dark gray (5Y 4/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT WITH QUARTZ. In general, the color changes are gradational. Distinct thin greenish bands occur in Sections 1 and 2. Disseminated pyrite is present in Sections 5 to 7.
							2.5Y 6/2	
2		2					2.5Y 6/2 To 5Y 4/1	
3		3				S	2.5Y 6/2	
4		4						
5				P			5Y 5/1	
		5		P			5Y 4/1	
7				P		I		
				P			5Y 4/1 To 5Y 5/1	
8		6						
						S	2.5Y 6/2	
9		7						
		CC		P		M	5Y 4/1	



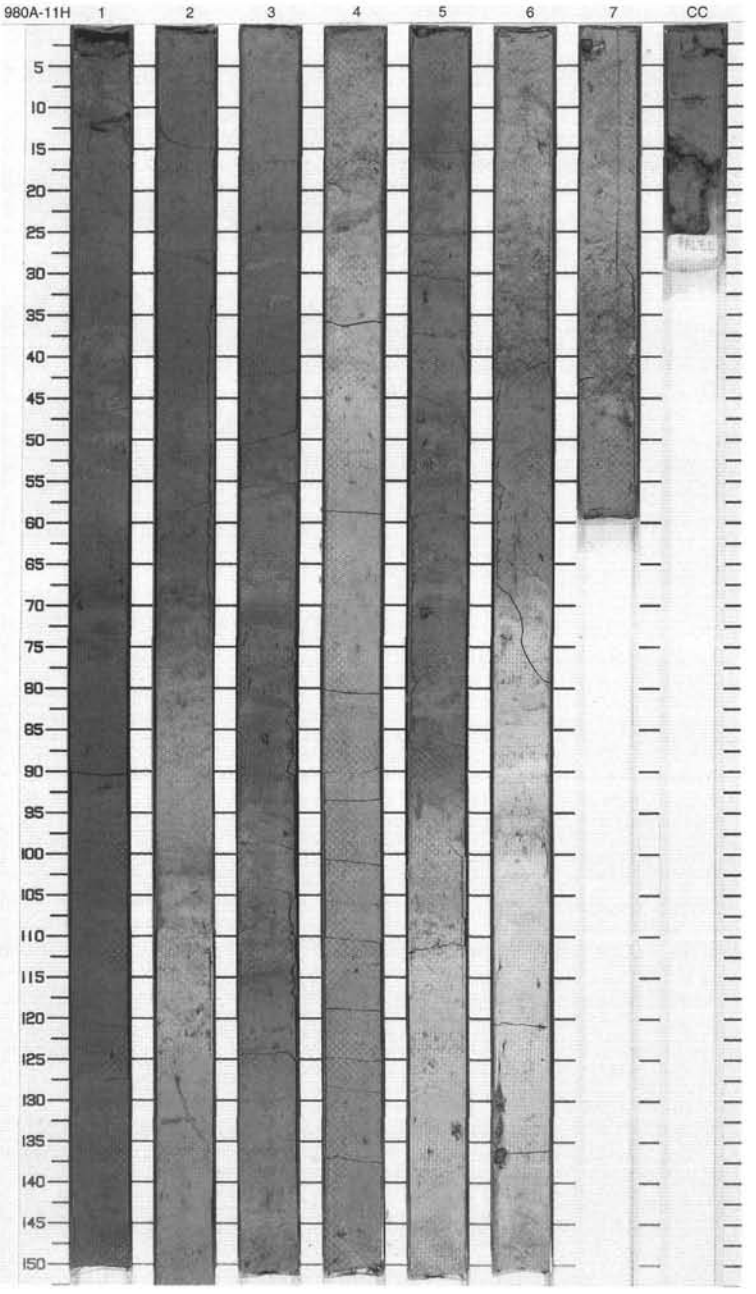
SITE 980 HOLE A CORE 10H CORED 85.4 - 94.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene			P	5Y 4/1	NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY and SILTY CLAY WITH NANNOFOSSILS General Description: This core contains light gray (5Y 7/1) NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY alternating with dark gray (5Y 4/1) SILTY CLAY WITH NANNOFOSSILS. Gradual and repeated color changes are recognized throughout the core. Foraminifer content increases from Section 6, 50 cm to Section 7, 55 cm. Slight bioturbation is present in Sections 1 to 4.
		2				P D		
		3				P S	5Y 7/1	
		4				P D		
		5				P S	5Y 4/1	
		6				P S	5Y 5/1	
		7				P		
		CC					5Y 4/1	



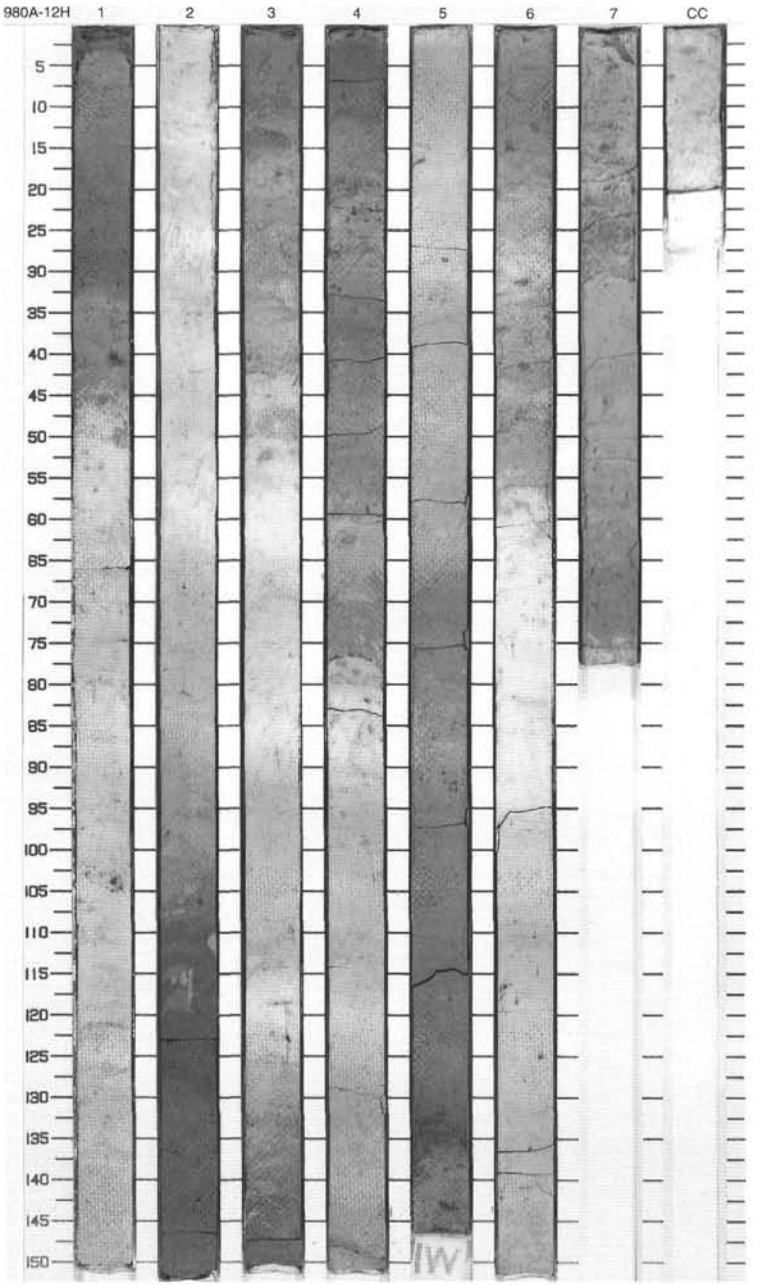
SITE 980 HOLE A CORE 11H CORED 94.9 - 104.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene		I	S	5Y 4/1	CLAYEY NANNOFOSSIL MIXED SEDIMENT and NANNOFOSSIL OOZE WITH FORAMINIFERS General Description: This core contains dark gray (5Y 4/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT alternating with light gray (5Y 7/1) NANNAFOSSIL OOZE WITH FORAMINIFERS. The color changes are always gradational. The uppermost part of the core is disturbed due to drilling. The core is for the most part homogeneous fine-grained. Some coarser layers occur in several sections. A thin dark layer occurs in Section 1. Thin to thick light gray sandy layers occur in Sections 2, 3, 5, 6 and 7. Additionally, some black disseminated pyrite layers occur in several sections. Two very hard pyrite nodules are situated in Section 6, 136 cm and at Section 7, 2 cm. Small black and angular dropstone occur in Section 3, 86 cm and Section 5, 71 cm.
						P		
						P		
		2				D	5Y 4/1 To 5Y 7/1	
		3				S	5Y 4/1	
						P		
		4		P P		D	5Y 7/1	
				P P		P		
		5				P S	5Y 4/1	
						P	5Y 7/1	
		6		P P		P	5Y 4/1	
				Ⓟ		P	5Y 7/1 To 5Y 4/1	
		7		Ⓟ		P		
		CC				M		



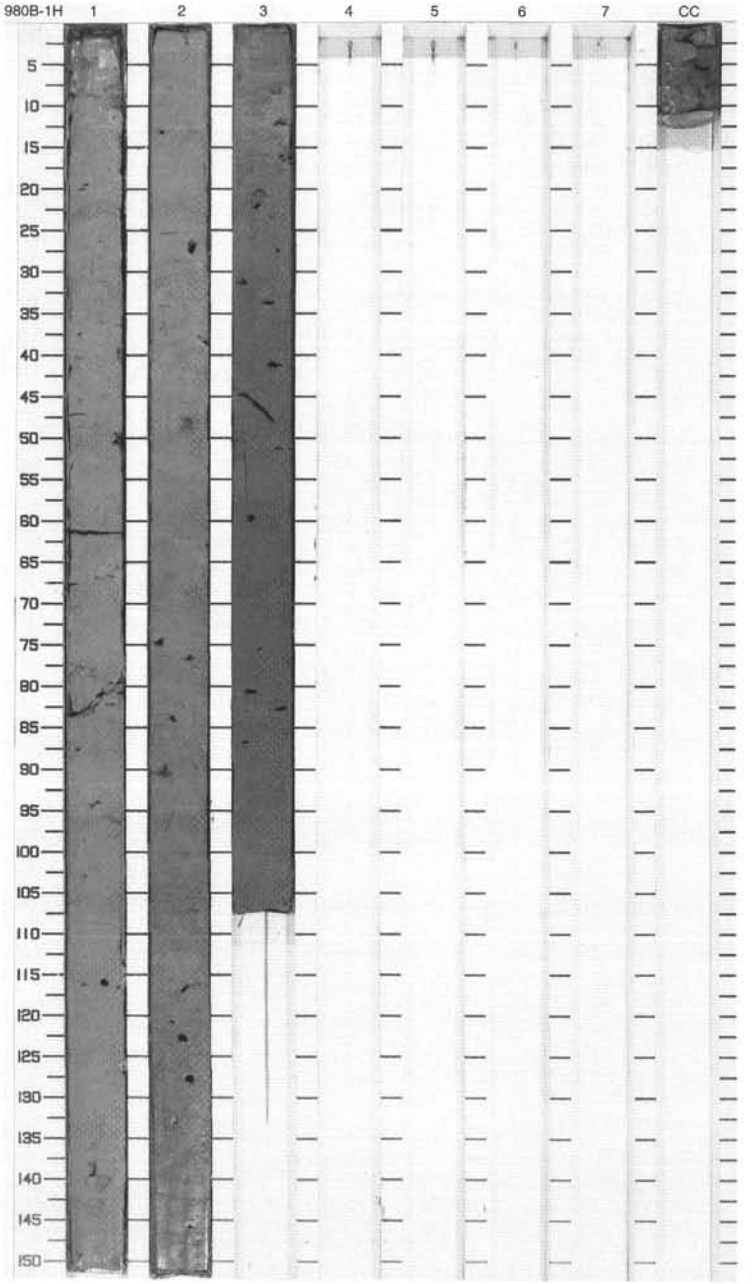
SITE 980 HOLE A CORE 12H CORED 104.4 - 113.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–10		1	Pleistocene	P		S	5Y 4/1	CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS, CLAYEY NANNOFOSSIL MIXED SEDIMENT and CLAY WITH NANNOFOSSILS General Description: This core contains light gray (5Y 7/1) CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS alternating with both gray (5Y 5/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT and dark gray (5Y 4/1) CLAY WITH NANNOFOSSILS. The core is slightly sandy between the bottom of section 1 and the uppermost part of Section 2. A sandy interval occurs between 25 cm and 65 cm in Section 6 and between 0 cm and 30 cm in Section 7. Disseminated pyrite occurs both in blubs and burrows in several horizons. A discrete curved thin layer of disseminated pyrite occurs at Section 4, 78 cm. Some faint thin distinctly greenish layers occur in Sections 5 and 7. *Chondrites* burrows occur within Section 3.
							5Y 7/1	
		2		P		D		
				P			5Y 4/1	
							5Y 5/1	
		3					5Y 4/1	
						S		
		4		P P P P		D	5Y 5/1	
							5Y 7/1 To 5Y 5/1	
		5				I		
				P			5Y 5/1	
		6				S	5Y 7/1	
				P P				
		7					5Y 5/1	
		CC				M		



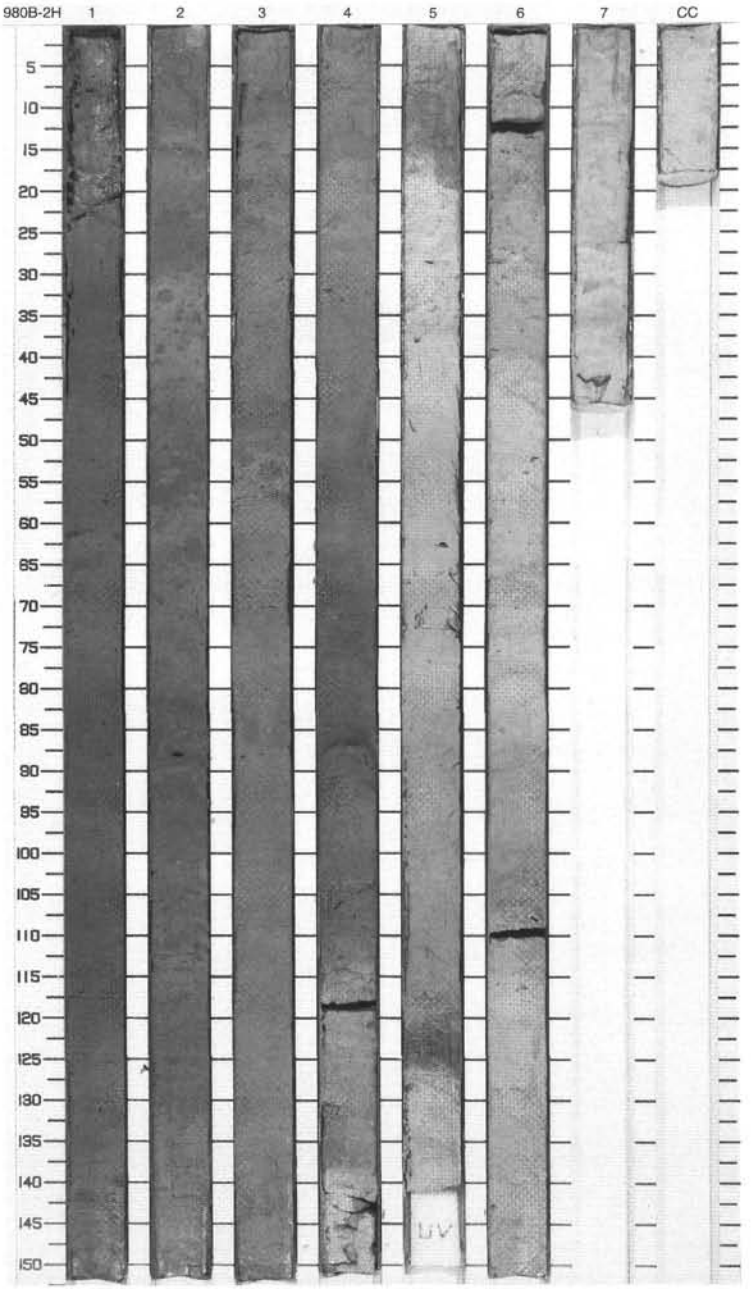
SITE 980 HOLE B CORE 1H CORED 0.0 - 4.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1 2 3 4		1 2 3 CC	Pleistocene	≀ ≀ ≀ ≀ ≀ ≀	○○	S S	2.5Y 5/2 To 10YR 4/1	CLAYEY NANNOFOSSIL OOZE and CLAYEY NANNOFOSSIL MIXED SEDIMENT General Description: This core consists of grayish brown to dark gray (2.5Y 5/2 to 10YR 4/1) CLAYEY NANNOFOSSIL OOZE and CLAYEY NANNOFOSSIL MIXED SEDIMENT. The entire core is moist, moderately soft and is very faintly burrow mottled. Some cm-wide open burrows occur throughout each section. The color changes are very gradational. There is a sand rich layer with a sharp curved lower contact between 80 cm and 85 cm in Section 3.



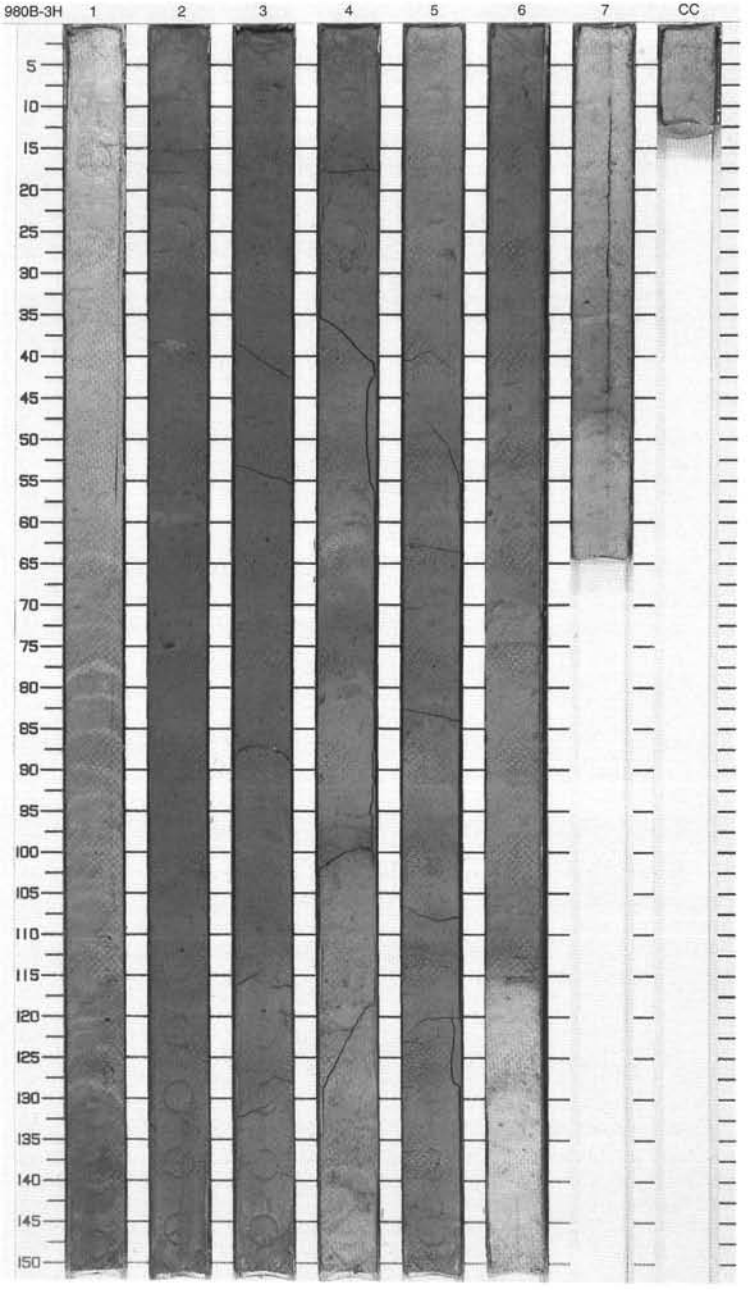
SITE 980 HOLE B CORE 2H CORED 4.2 - 13.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9	Void	1–7, CC	Pleistocene	P	○○	S, S, M	10Y 4/1; 10Y 5/1; 5Y 6/1; 10Y 5/1; 10Y 4/1; 5Y 6/1 To 10Y 5/1; 5Y 6/1	NANNOFOSSIL OOZE WITH CLAY and CLAYEY NANNOFOSSIL MIXED SEDIMENT General Description: This core contains dark gray (10Y 4/1) and gray (10Y 5/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT alternating with gray (5Y 6/1) NANNOFOSSIL OOZE WITH CLAY. The entire core is moist, firm, fine-grained and faintly mottled. The uppermost part of Section 6 is slightly enriched in sand. The uppermost part of the core is soupy due to coring. A cm-wide open burrow occurs in Section 2. Color changes are gradational except for a sharp dark contact in section 4 (pyrite?).



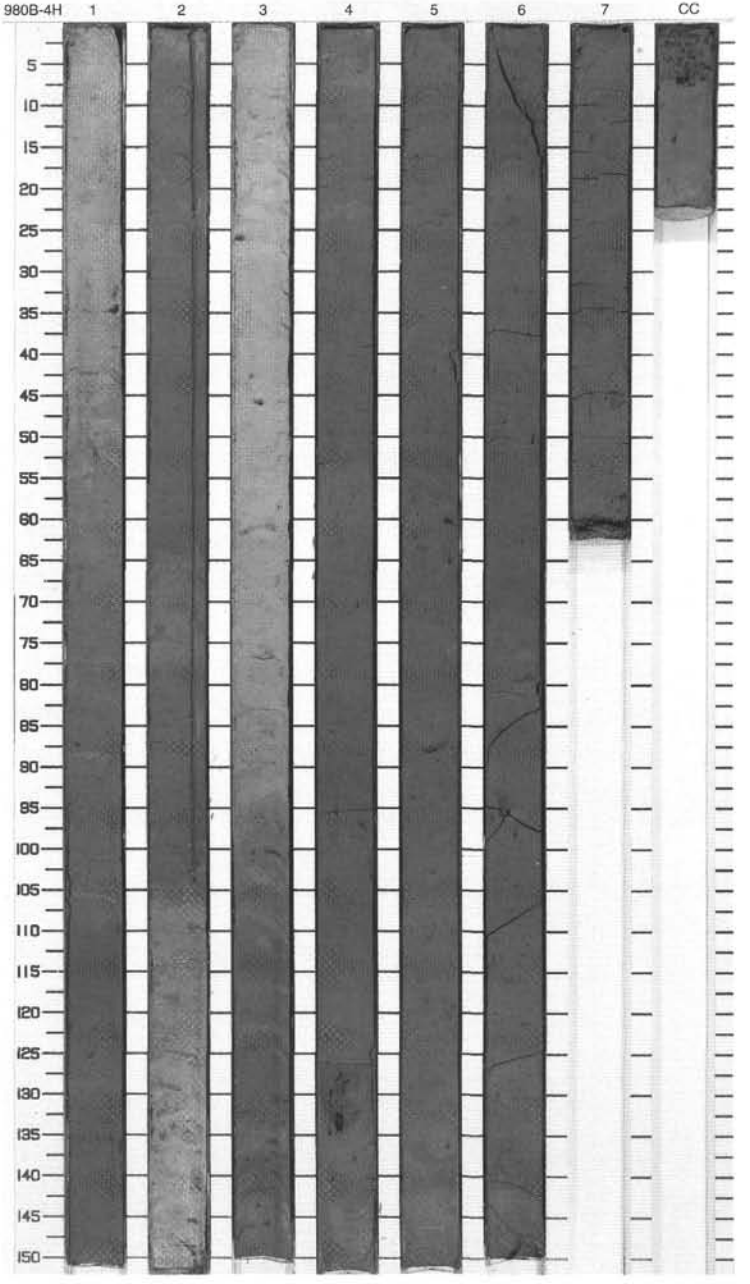
SITE 980 HOLE B CORE 3H CORED 13.7 - 23.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene	≫ ≫ ≫			2.5Y 6/2 To 2.5Y 5/2	CLAYEY SILT WITH SAND and NANNOFOSSIL OOZE General Description: This core contains dark gray (5Y 4/1) CLAYEY SILT WITH SAND alternating with grayish brown (2.5Y 5/2) and light brownish gray (2.5Y 6/2) NANNOFOSSIL OOZE. The entire core is firm homogeneous fine-grained sediment with some burrow mottling. Disseminated pyrite occurs both in thin horizons or blubs in Sections 2, 5, and 6. The core is slightly bioturbated. There are some discrete horizontal burrows (probably *Zoophycus*) throughout Section 1. Section 3 contains a pteropod rich layer situated at 88 cm.
		2				S	5Y 4/1	
		3		P			5Y 4/1 To 2.5Y 5/2	
		4					5Y 4/1	
		5		P P P			2.5Y 5/2	
		6		P		S	5Y 4/1 To 2.5Y 5/2 2.5Y 6/2	
		7				M	2.5Y 5/2	
		CC						



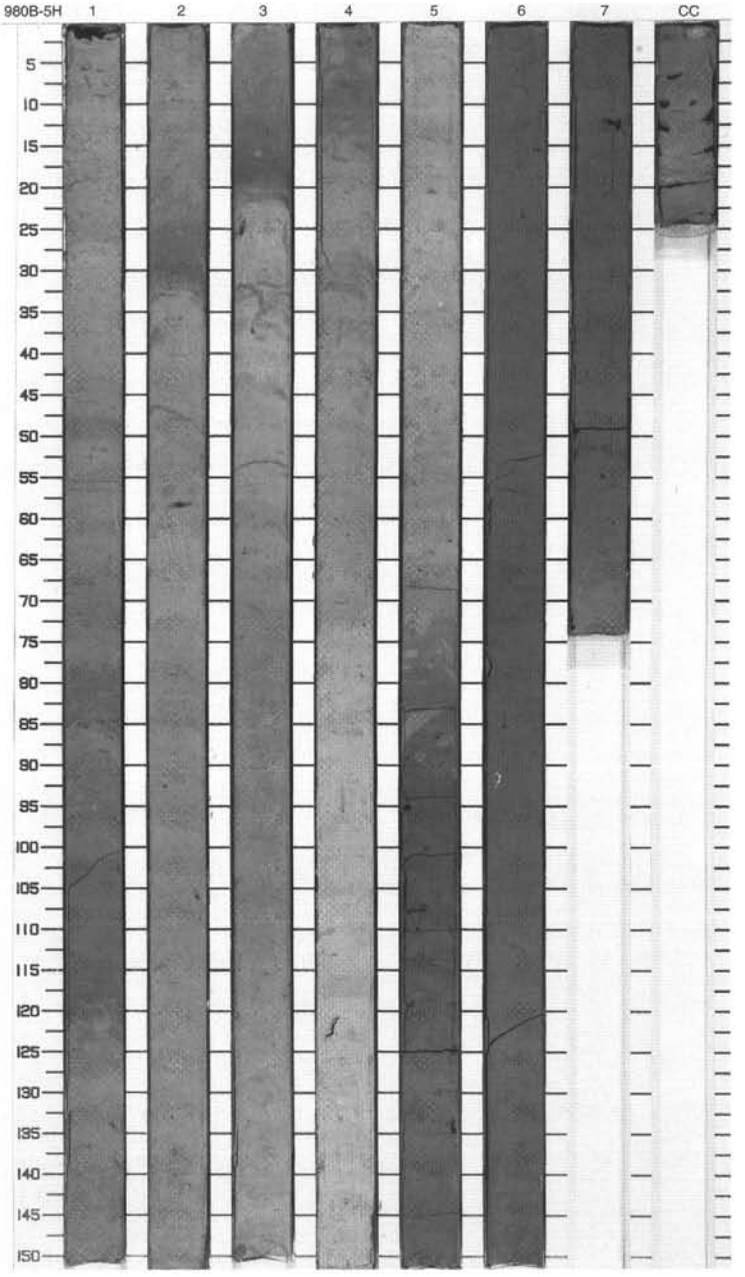
SITE 980 HOLE B CORE 4H CORED 23.2 - 32.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene	P, P, ≫, ≫		S	2.5Y 6/2; 2.5Y 6/2 To 10Y 4/1	CLAYEY SILT WITH SAND and NANNOFOSSIL OOZE WITH FORAMINIFERS AND SAND General Description: This core contains light brownish gray (2.5Y 6/2) NANNOFOSSIL OOZE WITH FORAMINIFERS AND SAND and dark greenish gray (10Y 4/1) CLAYEY SILT WITH SAND, with gradational transitions between the different lithologies. The transitional areas contain varying amounts of the components and higher percentages of foraminifers. Disseminated pyrite is common throughout with higher concentrations in Sections 5, 6, and 7. A thin (1–3 cm) greenish tinged layer is present in Section 3, 139–140 cm. The pyrite concretion in Section 4, 130–133 cm, is a 3 cm long burrow with embedded foraminifers.
		2					10Y 4/1	
		3		P, ≫, ≫		S	2.5Y 6/2; 2.5Y 6/2 To 10Y 4/1	
		4		Ⓟ				
		5					10Y 4/1	
		6						
		7				S		
		CC				M		



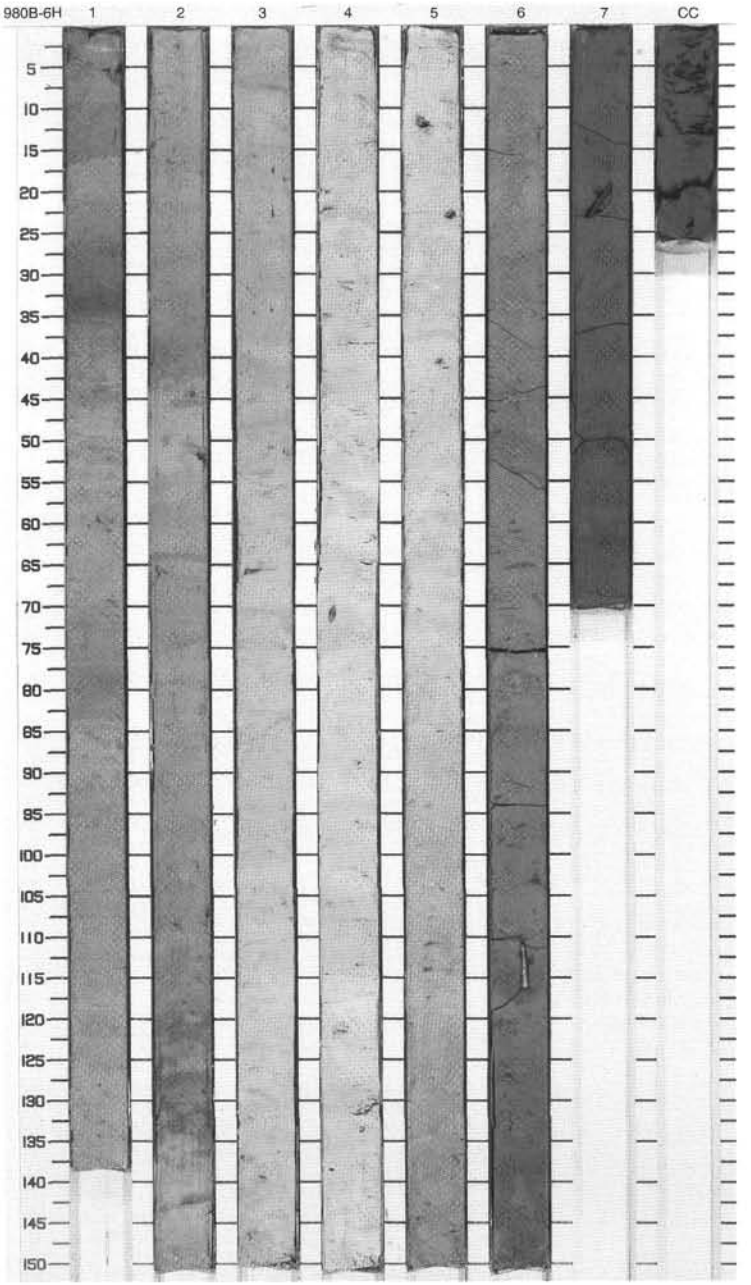
SITE 980 HOLE B CORE 5H CORED 32.7 - 42.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene				5Y 5/1	NANNOFOSSIL CLAY and CLAYEY NANNOFOSSIL OOZE General Description: This core contains gray (5Y 5/1) and dark gray (5Y 4/1) NANNOFOSSIL CLAY alternating with light brownish gray (2.5 Y 6/2) CLAYEY NANNOFOSSIL OOZE. The entire core is firm, homogeneous fine-grained with alternating gradational color changes. Both blubs and thin layer of disseminated pyrite occur in Sections 2 and 3. Section 3 contains a series of small discrete *Chondrite*-like burrows.
							5Y 5/1 To 5Y 4/1	
		2		P			2.5Y 6/2	
							5Y 5/1	
		3		P			2.5Y 6/2 To 5Y 5/1	
							5Y 5/1 To 2.5Y 6/2	
		4				S	2.5Y 6/2	
		5					5Y 4/1	
							5Y 5/1	
		6				S	5Y 4/1	
		7						
		CC				M		



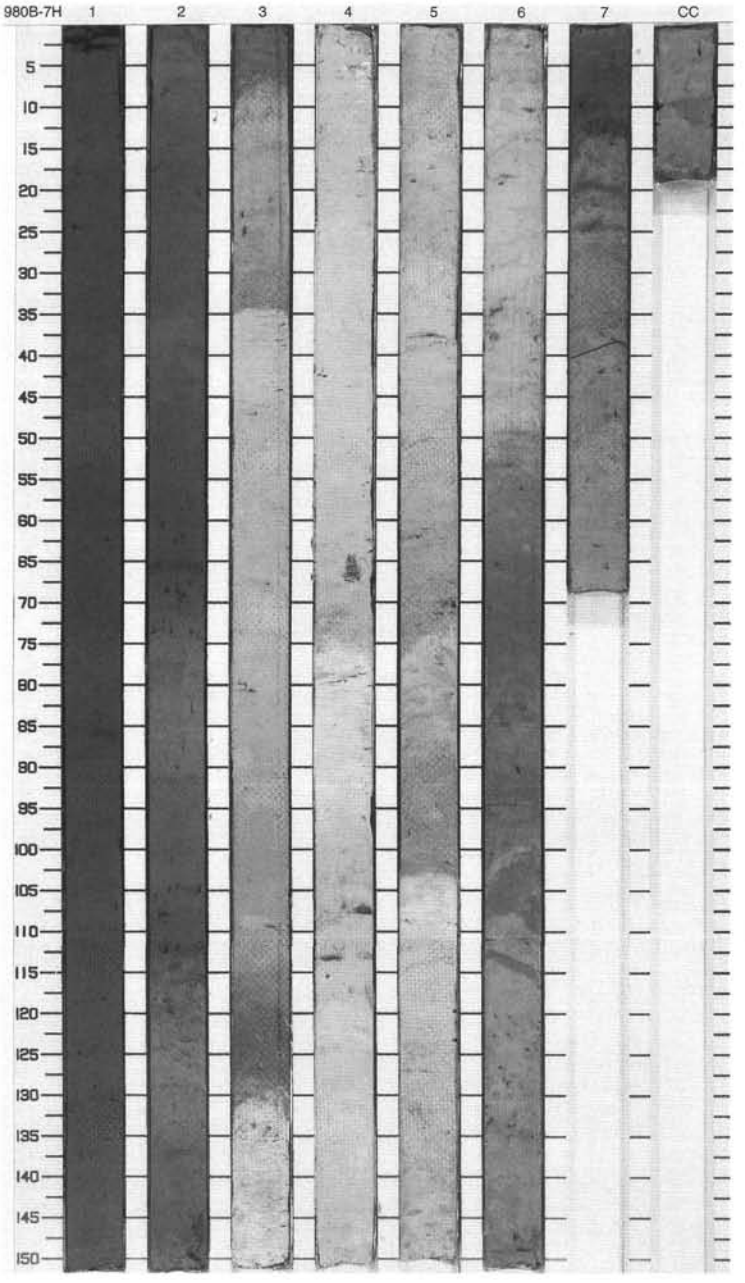
SITE 980 HOLE B CORE 6H CORED 42.2 - 51.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene				2.5Y 5/2	NANNOFOSSIL OOZE and NANNOFOSSIL SILTY CLAY General Description: The core contains light gray (10Y 7/1) NANNOFOSSIL OOZE alternating with grayish brown (2.5Y 5/2) and dark gray (5Y 4/1) NANNOFOSSIL SILTY CLAY. The entire core is firm, homogeneous fine-grained sediment. Section 3 is faintly burrow mottled. The color changes are gradational. Small blubs of disseminated pyrite occur in Sections 3 to 7. Section 2 contains 3 discrete horizontal burrows. Both Sections 5 and 7 contain 3–5 cm-long pyritized burrows. A vertically oriented 7 cm-long scaphopod (genus dentalium?) mollusk ("tusk shell").
		2		P			10Y 7/1 To 2.5Y 5/2	
		3		P				
		4		P		S	10Y 7/1	
		5		P				
		6		P		S	2.5Y 5/2 To 5Y 4/1	
		7		P		M	5Y 4/1	
		CC						



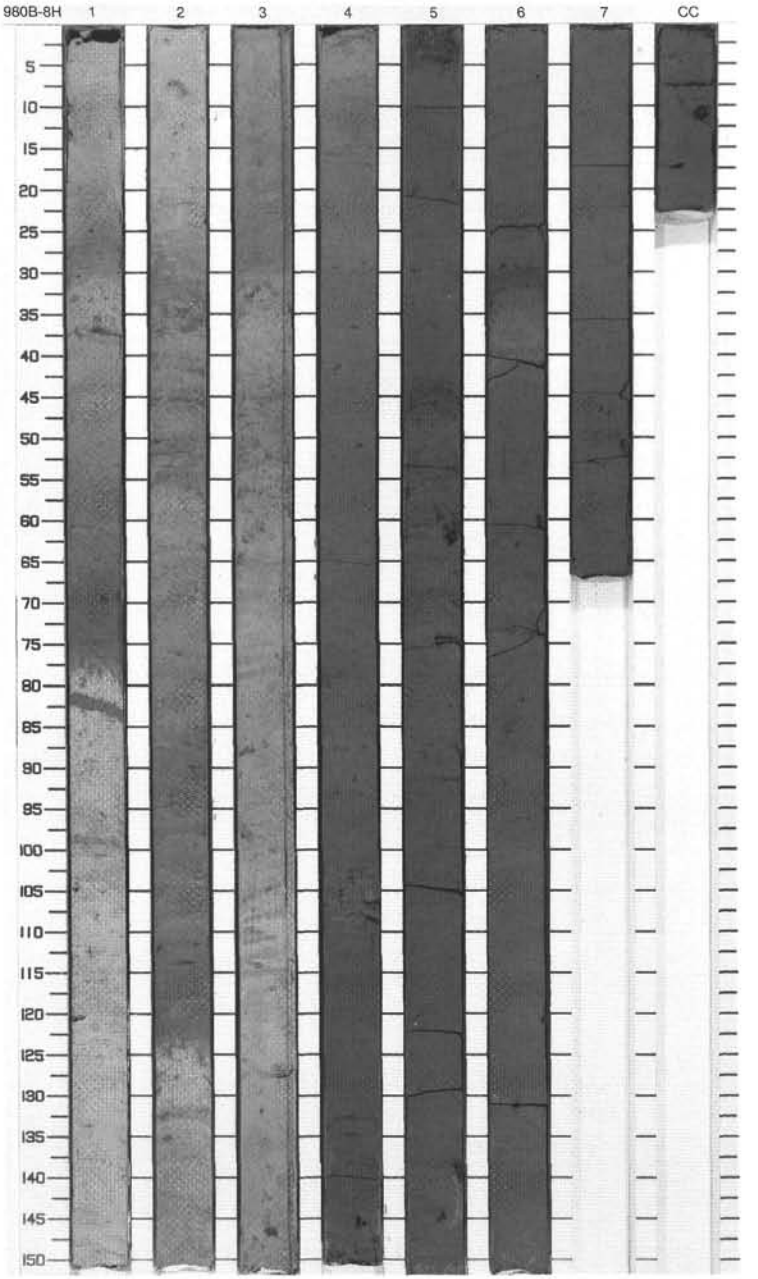
SITE 980 HOLE B CORE 7H CORED 51.7 - 61.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene	P		S	5Y 4/1	SILTY CLAY WITH NANNOFOSSILS and NANNOFOSSIL OOZE General Description: The core contains dark gray (5Y 4/1) and gray (5Y 5/1) SILTY CLAY WITH NANNOFOSSILS alternating with light brownish gray (2.5Y 6/2) NANNOFOSSIL OOZE. The color changes are gradational except two sharp color boundaries in Section 3. Slight colored banding occurs from Section 2 to Section 4. The entire core is slightly to moderately mottled. There are some burrows filled with disseminated pyrite in all sections. Two *Chondrite* burrows occur within Section 3. There are some slump-like structures in Section 6.
		2		P P P P P				
		3		P		S	5Y 5/1	
							2.5Y 6/2	
							5Y 5/1	
		4		P P P			2.5Y 6/2	
		5		P P P			5Y 5/1	
		6					2.5Y 6/2	
							5Y 4/1	
		7		P			5Y 5/1	
		CC				M		



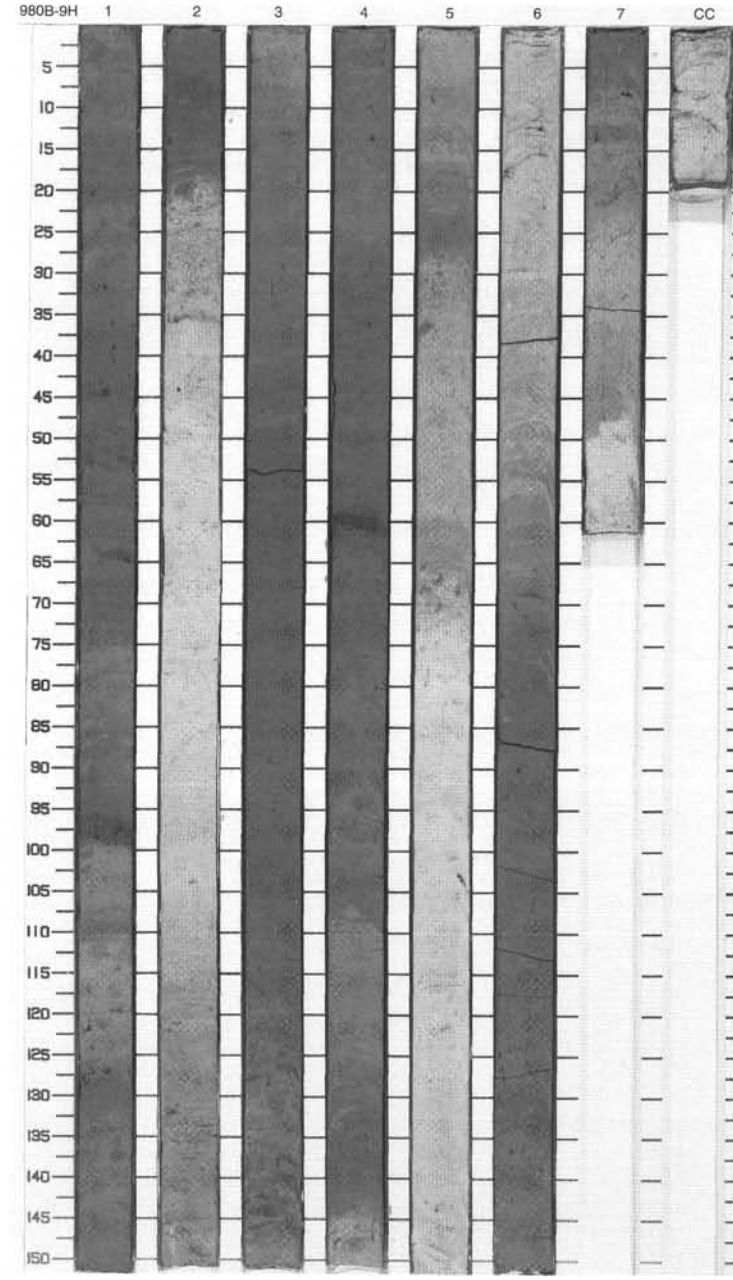
SITE 980 HOLE B CORE 8H CORED 61.2 - 70.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene	P	W	S	5Y 5/1	NANNOFOSSIL SILTY CLAY and NANNOFOSSIL OOZE WITH FORAMINIFERS General Description: This core contains dark grayish brown (2.5Y 4/2) NANNOFOSSIL SILTY CLAY alternating with gray (5Y 5/1 and 5Y 6/1) NANNOFOSSIL OOZE WITH FORAMINIFERS. The entire core is firm homogeneous fine-grained sediment. The color changes are sharp. The core is slightly mottled throughout. The uppermost part of the core is missing due to coring. Some pyrite filled horizontal burrows occur in several sections. Additionally disseminated pyrite occurs in some horizons. The sediment is coarser between Sections 2 and 3 and toward bottom. Some distinct thin greenish bands occur in Sections 3 and 6. A fining-upward sequence occurs in Section 4. Small dropstones (diameter <1 cm) are situated at 145 cm in Section 4, at 62 cm, 74 cm, and 139 cm in Section 5, and at 120 cm in Section 6.
				P			5Y 6/1	
		2		P			5Y 5/1	
				P				
		3		P			5Y 6/1	
				P				
		4		P			5Y 5/1	
				F P		S		
		5		P			2.5Y 4/2	
				P				
		6		P P P				
		7				M		
		CC						



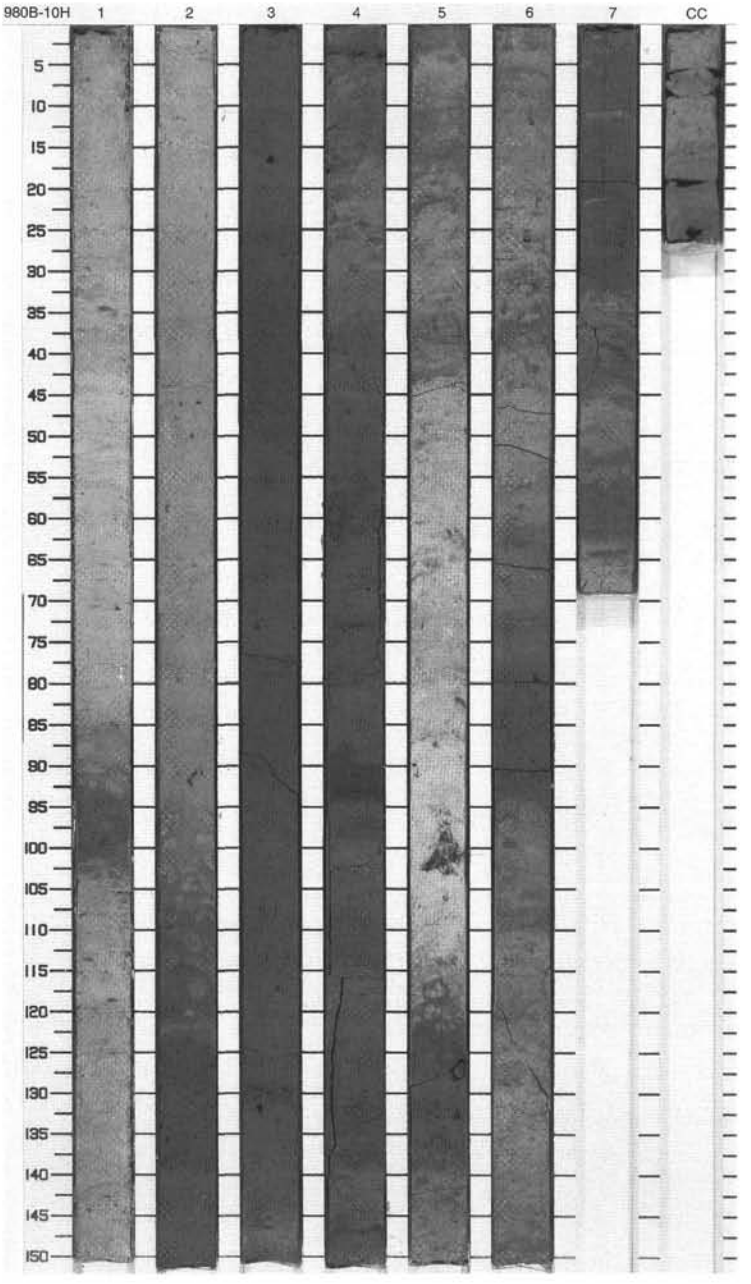
SITE 980 HOLE B CORE 9H CORED 70.7 - 80.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene				5Y 5/1 To 2.5Y 4/2	NANNOFOSSIL OOZE WITH FORAMINIFERS and CLAYEY SILT WITH NANNOFOSSILS General Description: This core contains gray (5Y 5/1 and 5Y 6/1) NANNOFOSSIL OOZE WITH FORAMINIFERS interbedded with dark grayish brown (2.5Y 4/2) CLAYEY SILT WITH NANNOFOSSILS. The darker parts of the core are moist, firm, fine-grained sediments. The lighter parts are enriched in foraminifers. The color changes are gradational. Some dark-color or greenish-color bands occur in Sections 4, 5, and 6. Some discrete burrows occur in Section 4.
							5Y 5/1	
		2				S	5Y 6/1	
							5Y 5/1	
		3				S	2.5Y 4/2	
		4					5Y 4/1 To 2.5Y 4/2	
							2.5Y 4/2 To 5Y 4/1	
		5					5Y 6/1	
		6					5Y 5/1	
		7					5Y 4/1	
		CC				M		



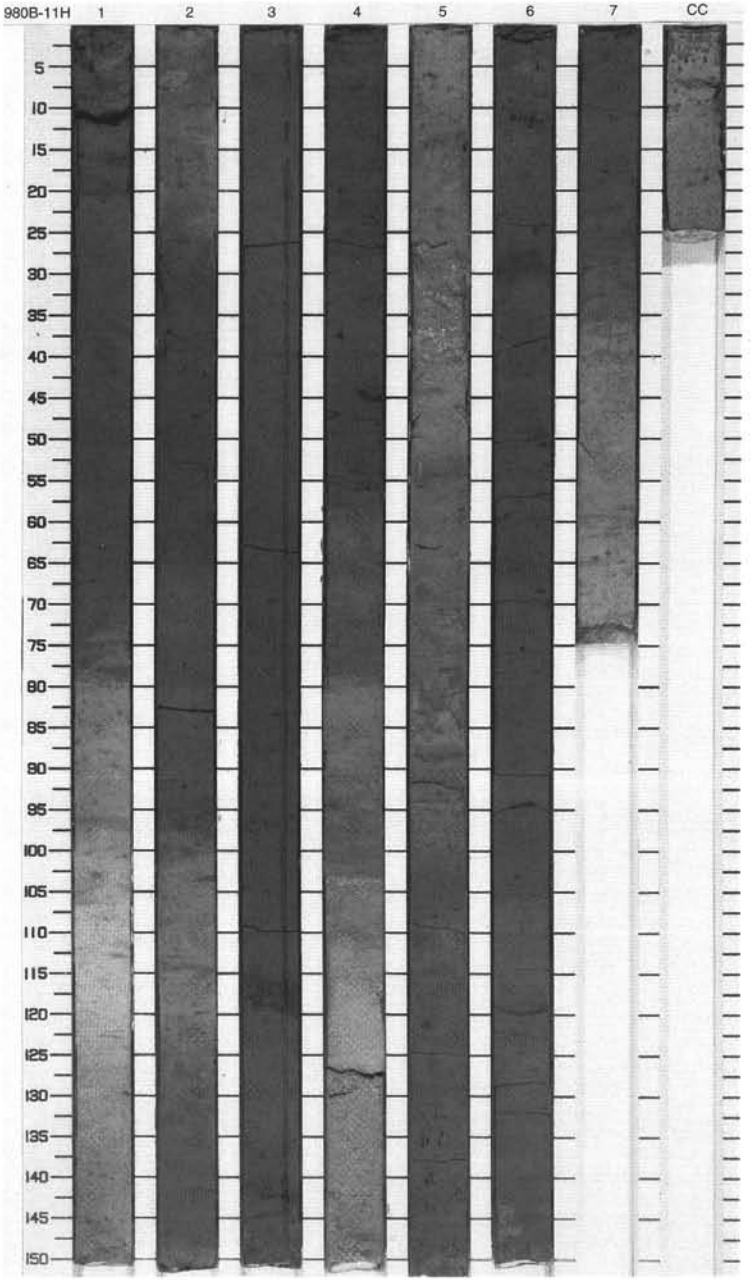
SITE 980 HOLE B CORE 10H CORED 80.2 - 89.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene	P, P			5Y 7/1	NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY and NANNOFOSSIL SILTY CLAY WITH QUARTZ General Description: The core mainly contains gray (5Y 6/1) and (5Y 5/1), light gray (5Y 7/1) and dark gray (5Y 4/1) NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY interbedded with dark grayish brown (2.5Y 4/2) NANNOFOSSIL SILTY CLAY WITH QUARTZ. The upper part of the core is silt-size sediment. It becomes coarser toward bottom. The entire core is slightly to moderately bioturbated and disseminated pyrite occurs in several sections. Color changes are gradational except sharp color-band in Sections 1 and 4. Small-size dropstones occur at 125 cm in Section 5 and at 5 cm and 80 cm in Section 6.
				P			5Y 6/1	
		2		P				
							5Y 4/1	
		3		P		S	2.5Y 4/2	
							5Y 5/1	
		4		P			5Y 4/1	
							5Y 5/1	
		5		P			5Y 6/1	
							5Y 4/1	
							5Y 6/1	
		6					5Y 4/1	
							5Y 5/1	
		7				S	5Y 4/1	
		CC				M	5Y 5/1	



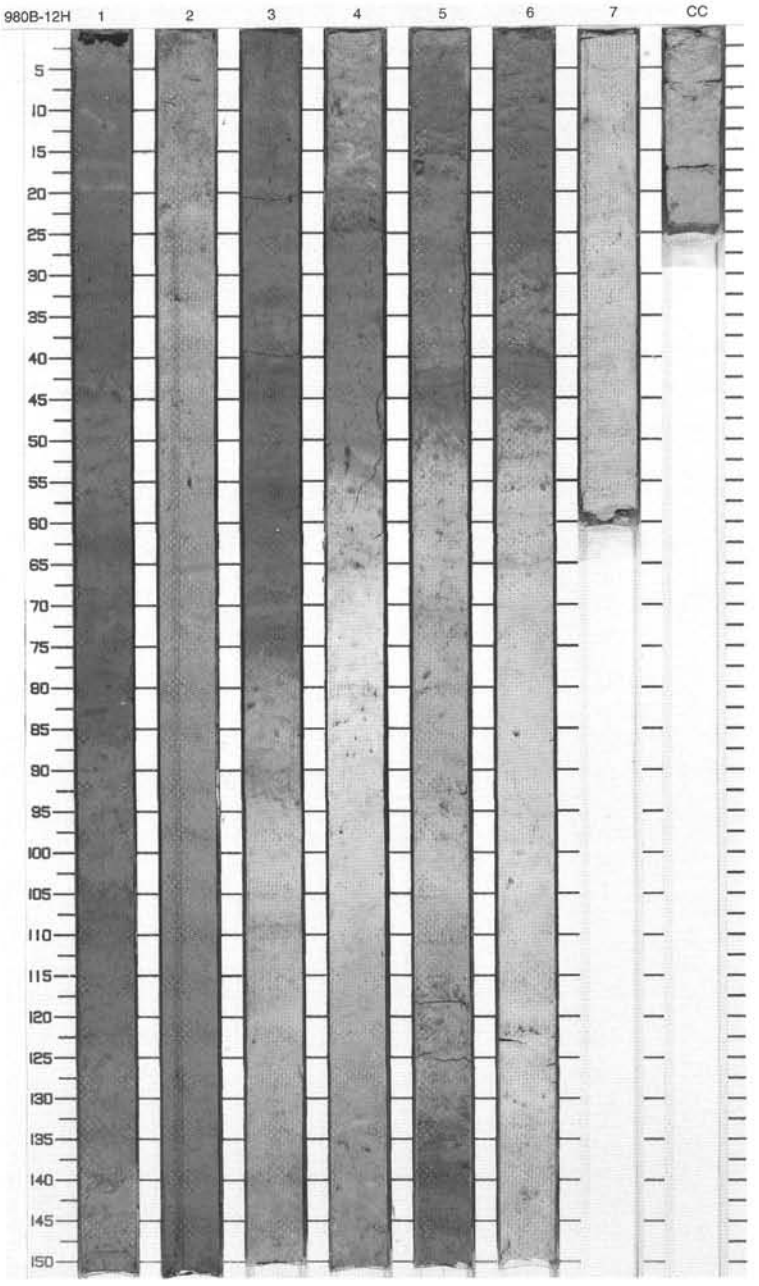
SITE 980 HOLE B CORE 11H CORED 89.7 - 99.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	Pleistocene	C, P			10Y 4/1	NANNOFOSSIL FORAMINIFER OOZE and NANNOFOSSIL MIXED SEDIMENT General Description: This core contains (5Y 6/1) and (10Y 4/1) NANNOFOSSIL FORAMINIFER OOZE alternating with (2.5Y 4/2) NANNOFOSSIL MIXED SEDIMENT. The entire core is homogeneous and slightly mottled. Color changes are sharp and some pink and greenish colored-layers occur in Sections 2 to 4. Some coarser and finer-grained sediment intervals occur in thin to medium horizons. Disseminated pyrite blubs occurs throughout the entire core. The sediment is soupy between Sections 4 and 5.
							5Y 6/1	
2		2		P			2.5Y 4/2	
							5Y 6/1	
3		3		P				
4				P		S	2.5Y 4/2	
5		4		P, P				
				P				
6				P		S		
		5					5Y 6/1	
7				P				
		6		P, P				
8				P				
							2.5Y 4/2	
9		7		P, P				
		CC				M	5Y 6/1	



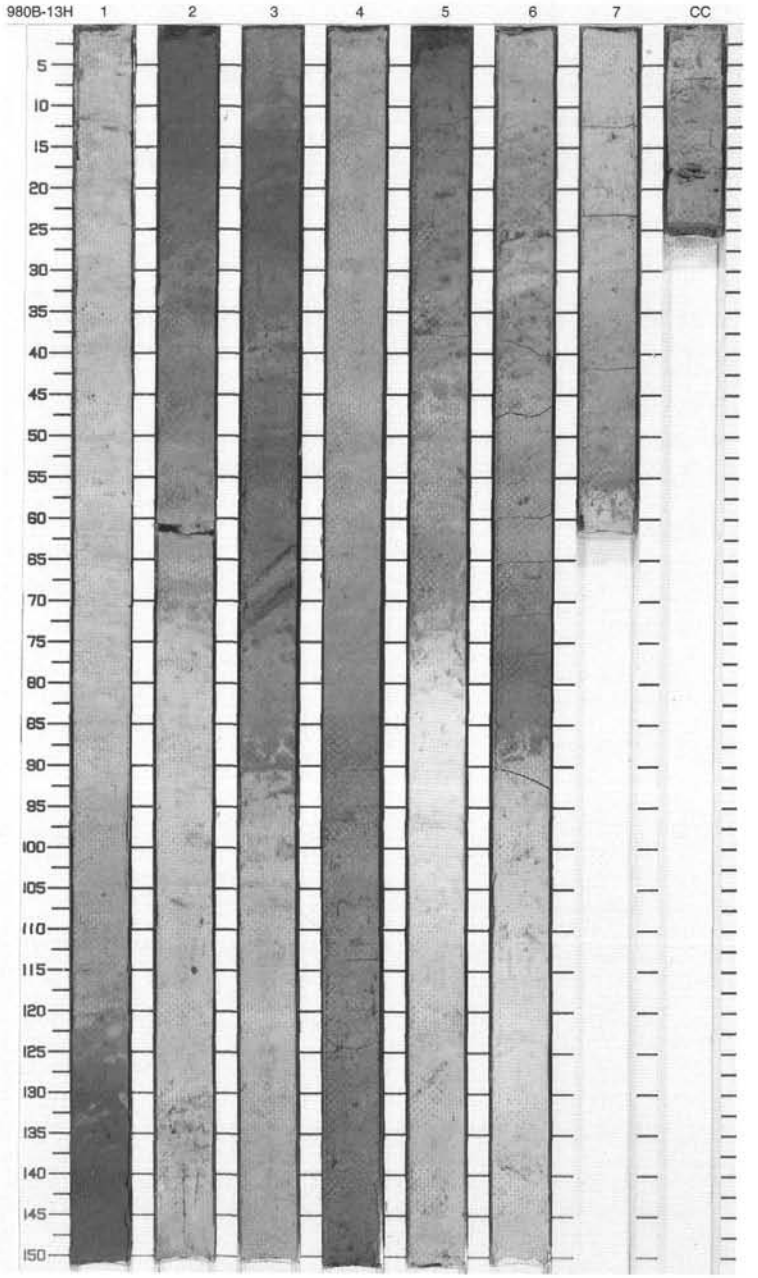
SITE 980 HOLE B CORE 12H CORED 99.2 - 108.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene		○	S	5Y 5/1	NANNOFOSSIL OOZE General Description: This core contains dark gray (5Y 4/1) to white (5Y 8/1) NANNOFOSSIL OOZE. Color changes are gradational. Several silt-size intervals occur throughout the core and a fine upward sequence is present in Section 3. The core is slightly bioturbated throughout and some *Zoophycus*-like burrows occur in core 3. Pyrite is disseminated in small blebs in several sections. A cm-sized dropstone occurs at 17 cm in Section 5.
		2		P P P				
		3		⋙ ⋙ ↑ F			5Y 4/1	
		4		P P		S	5Y 7/1	
		5		P ◇ P P			5Y 5/1	
							5Y 7/1	
		6		P P P			5Y 5/1	
		7					5Y 8/1	
		CC				M		

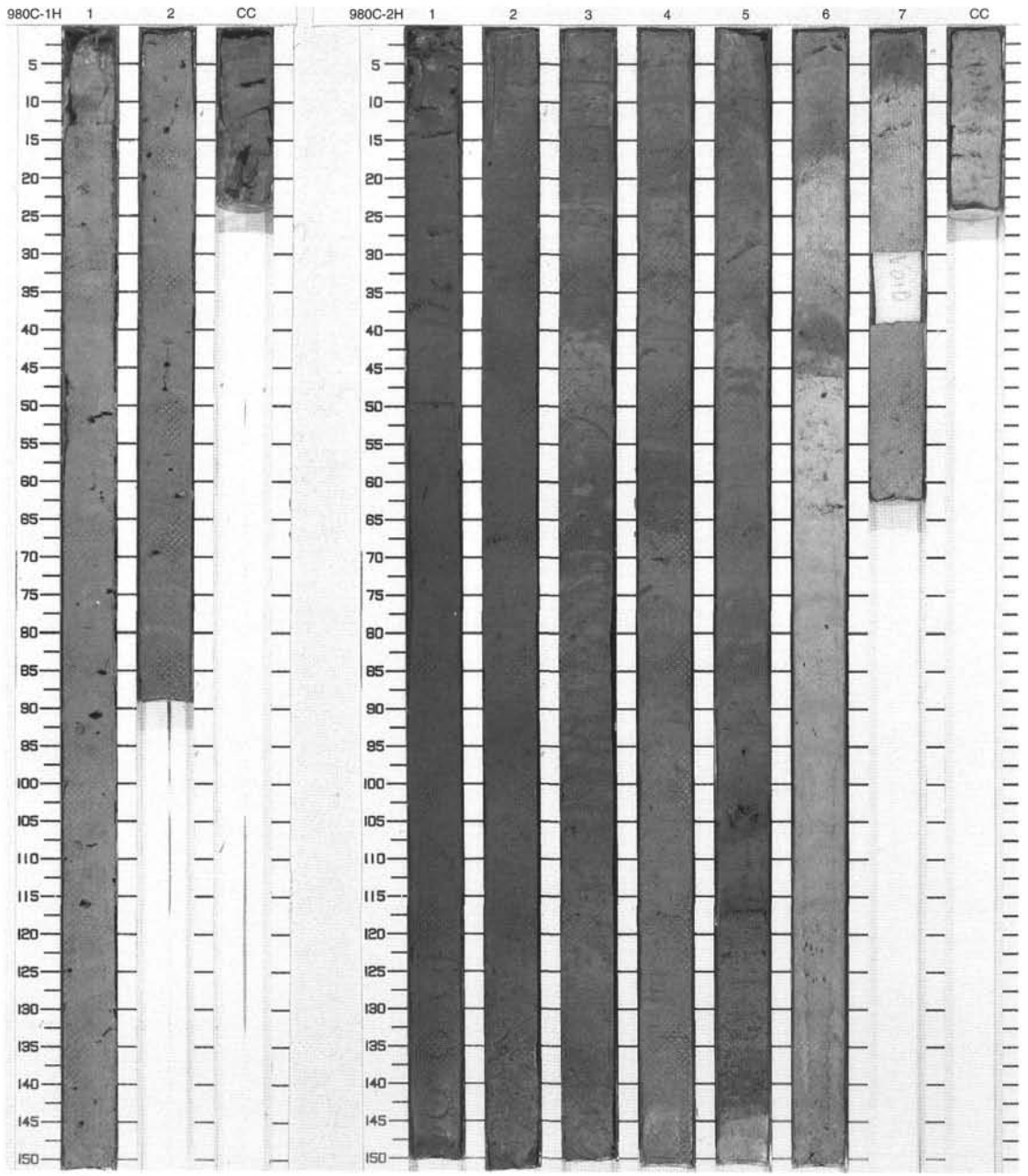


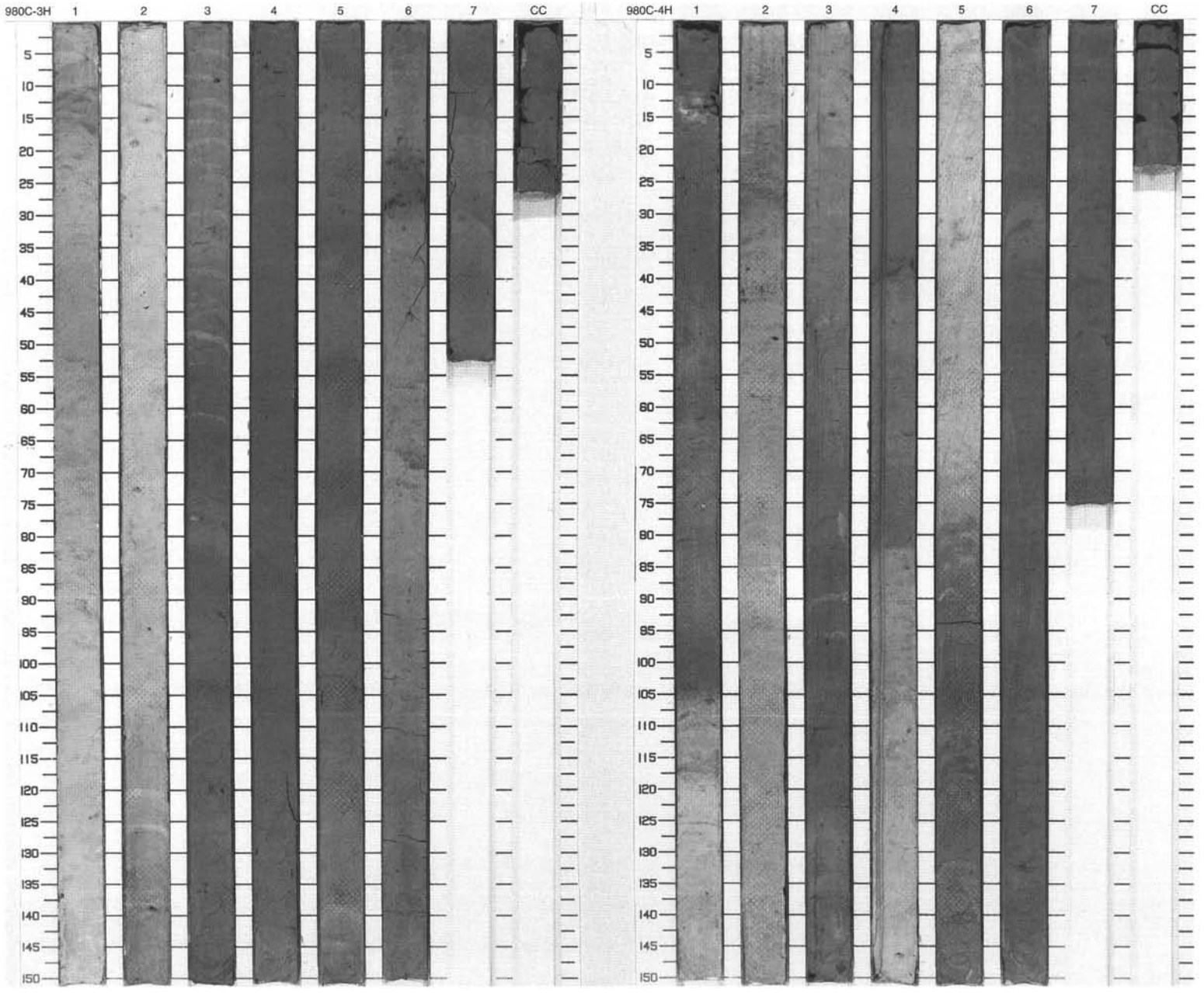
SITE 980 HOLE B CORE 13H CORED 108.7 - 118.2 mbsf

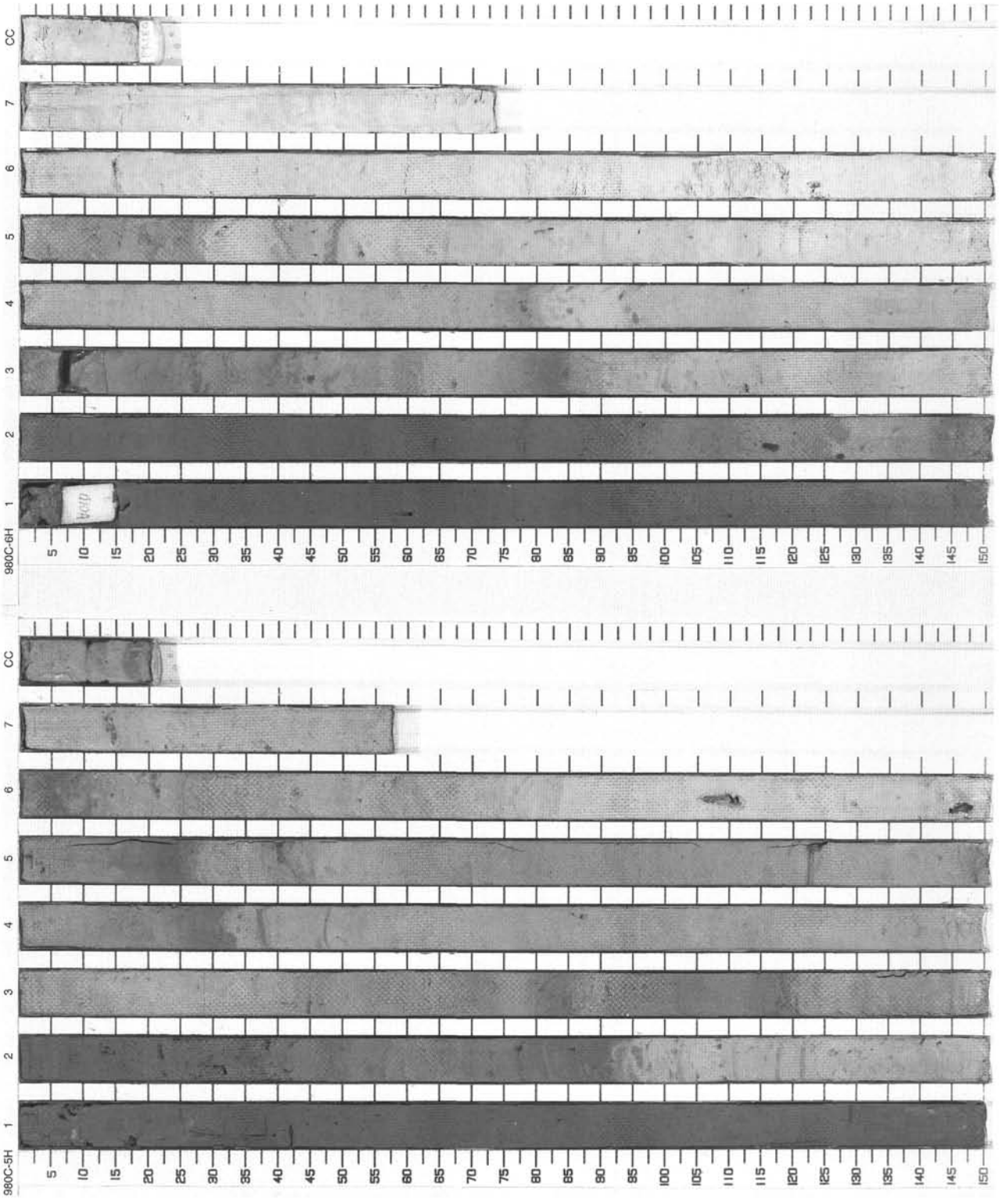
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene				5Y 6/1	NANNOFOSSIL OOZE and NANNOFOSSIL OOZE WITH FORAMINIFERS General Description: This core contains dark gray to gray (5Y 4/1 to 5Y 6/1) NANNOFOSSIL OOZE and NANNOFOSSIL OOZE WITH FORAMINIFERS. Bioturbation is minor to moderate throughout the core. Color changes are gradational. Faint color bands and color mottling also occur throughout.
		2				S	5Y 4/1 To 5Y 5/1	
							5Y 6/1	
							5Y 5/1	
		3				S	5Y 6/1	
		4					5Y 6/1 To 5Y 4/1	
							5Y 5/1	
		5					5Y 6/1	
		6					5Y 5/1 To 5Y 4/1	
		7					5Y 6/1 To 5Y 5/1	
		CC				M		

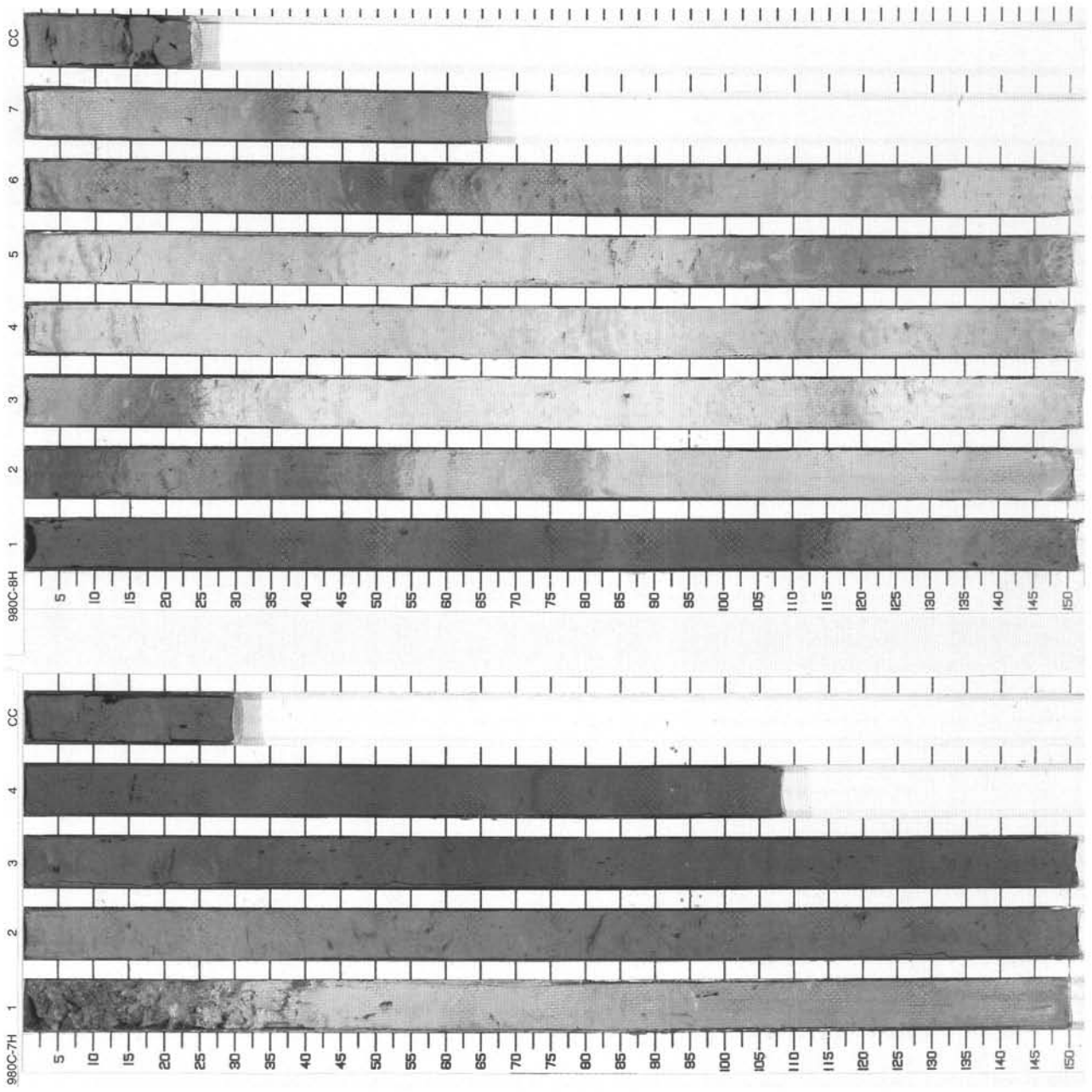


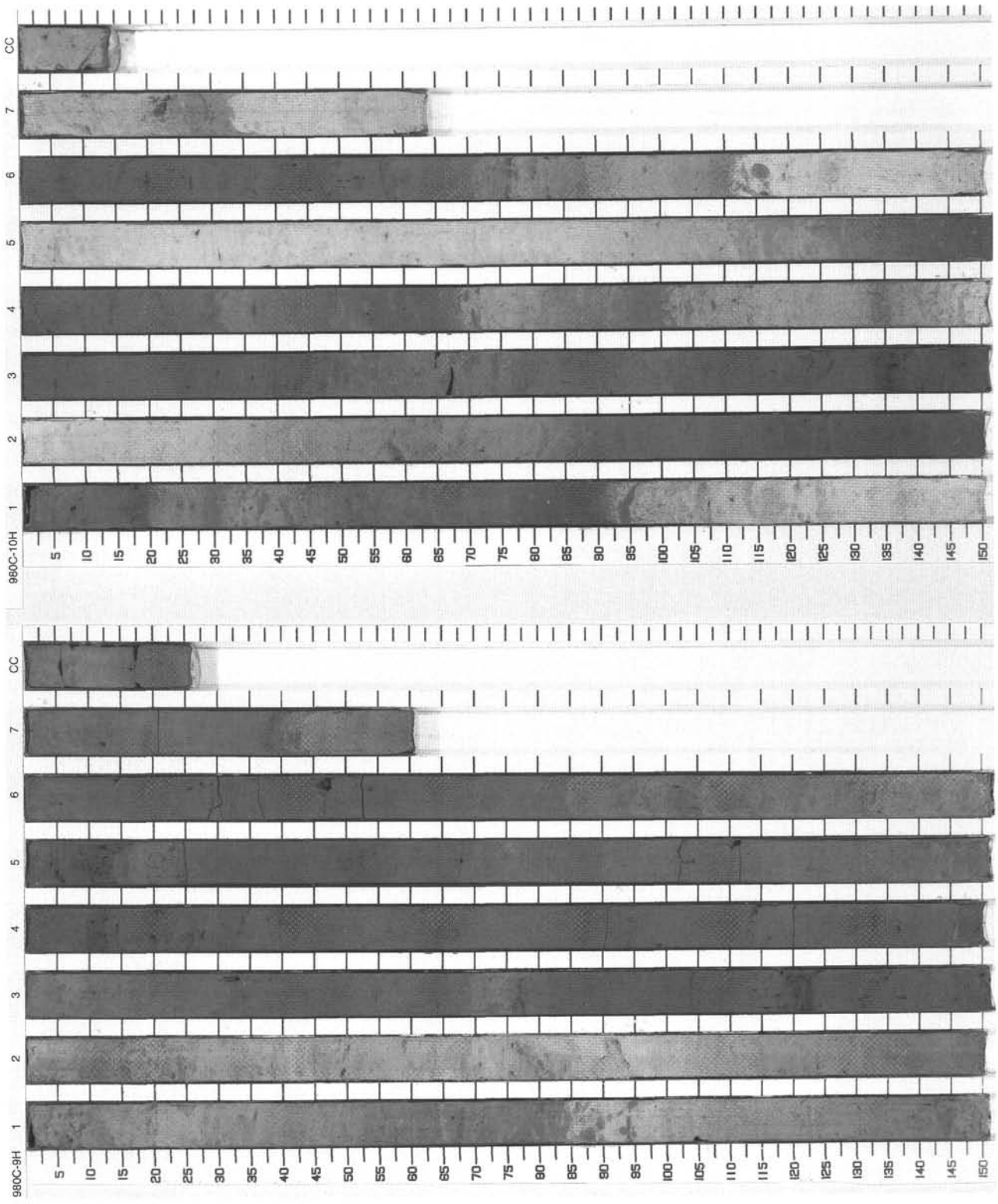
No computer drafts were produced for Hole 980C barrel sheets. For lithologic descriptions, refer to the barrel sheets for Holes 980A and 980B (using composite depth map for precise depth references), or request hand-drafted barrel sheets from the ODP data librarian.

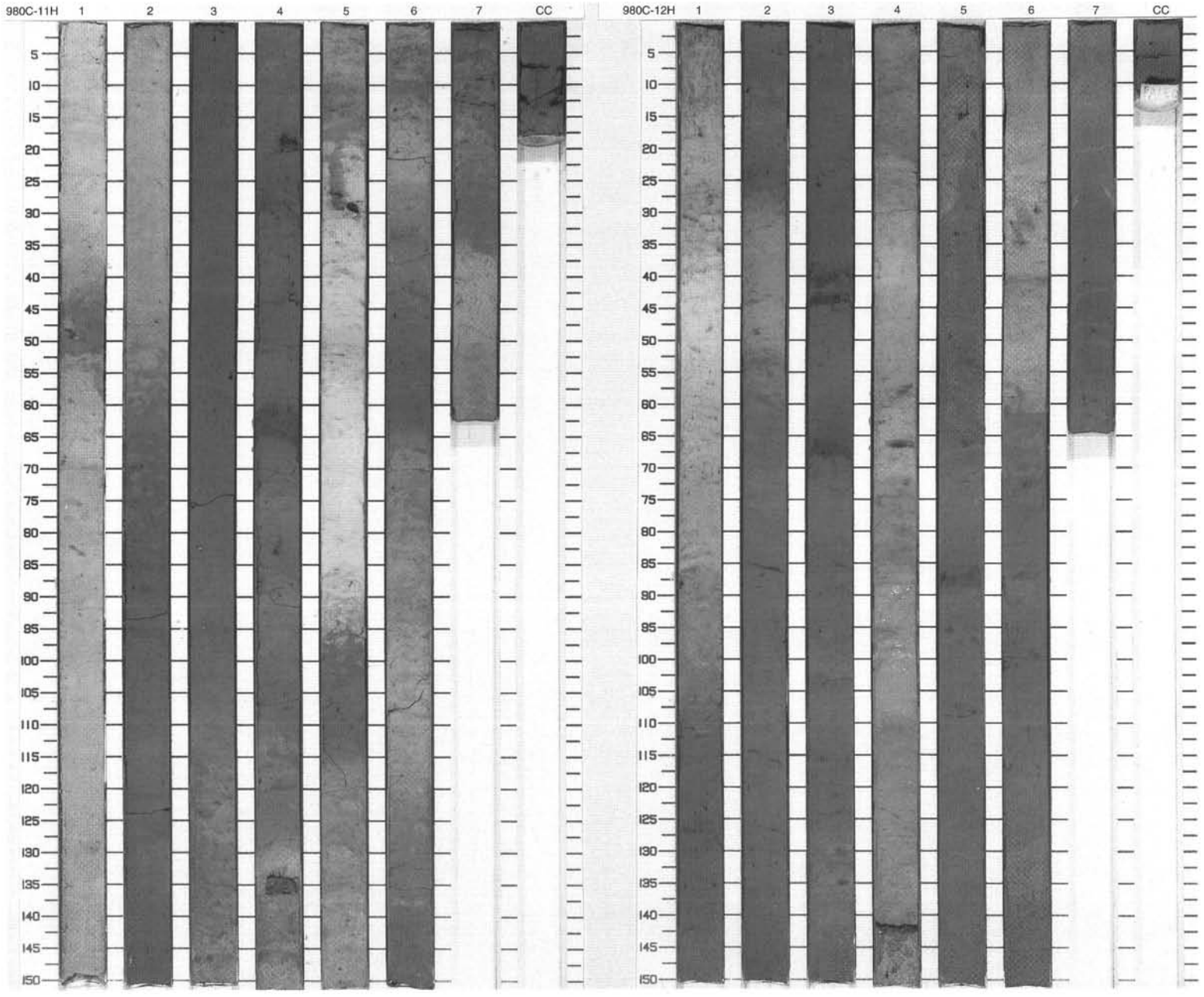


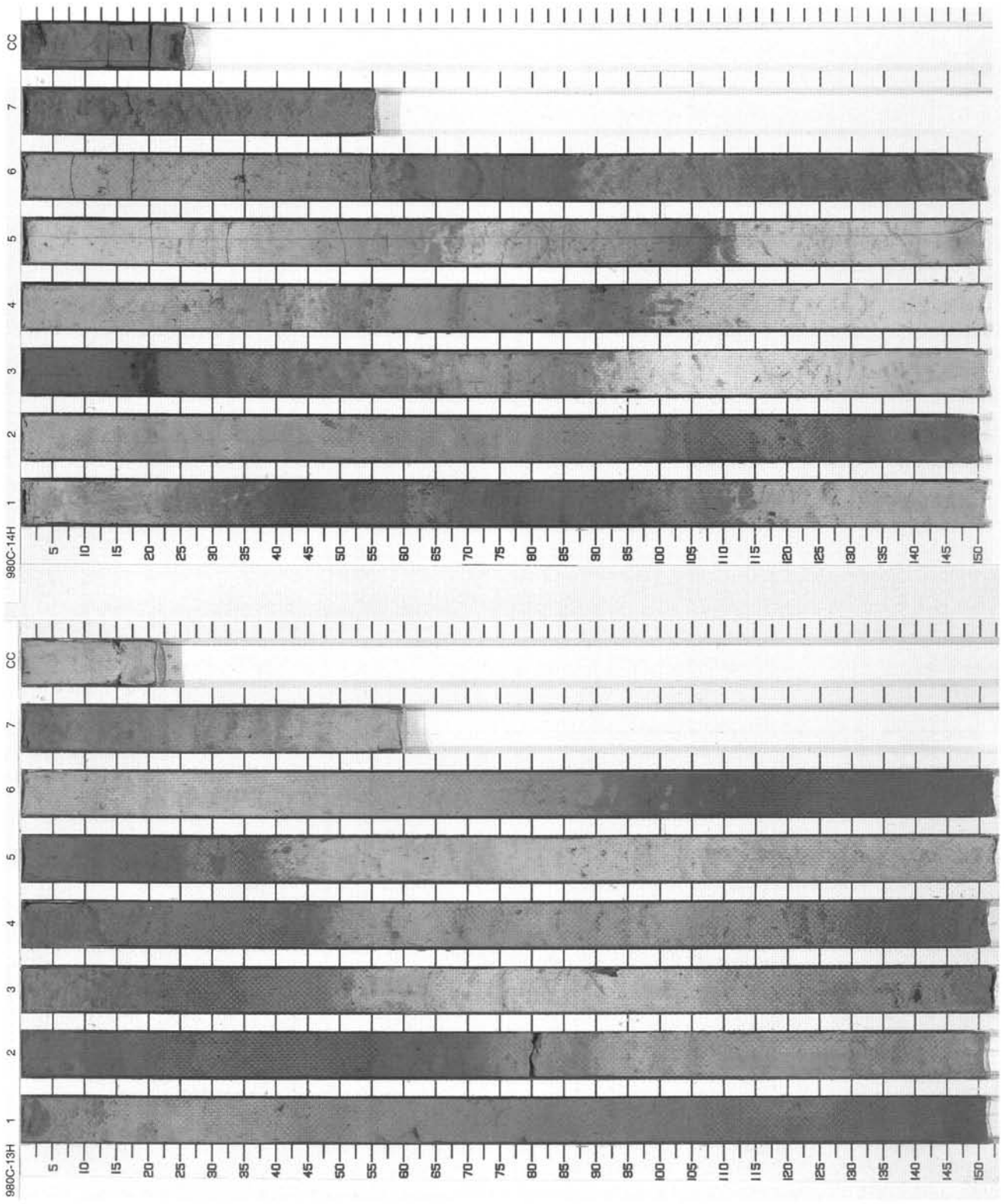

980C-3H
1
2
3
4
5
6
7
CC
980C-4H
1
2
3
4
5
6
7
CC


980C-6H
CC
7
6
5
4
3
2
1
980C-5H
CC
7
6
5
4
3
2
1


980C-8H
CC
7
6
5
4
3
2
1
980C-7H
CC
4
3
2
1

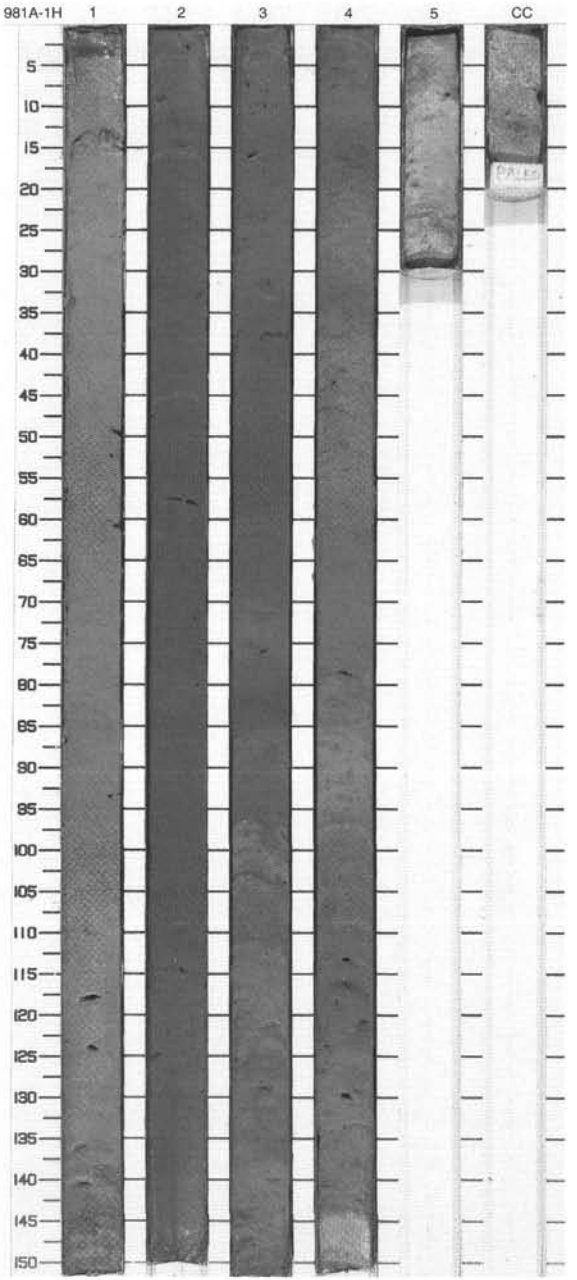

980C-10H
980C-9H
CC
7
6
5
4
3
2
1
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
90
95
100
105
110
115
120
125
130
135
140
145
150


980C-11H
1
2
3
4
5
6
7
CC
980C-12H
1
2
3
4
5
6
7
CC


980C-14H
980C-13H
CC
7
6
5
4
3
2
1
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
90
95
100
105
110
115
120
125
130
135
140
145
150

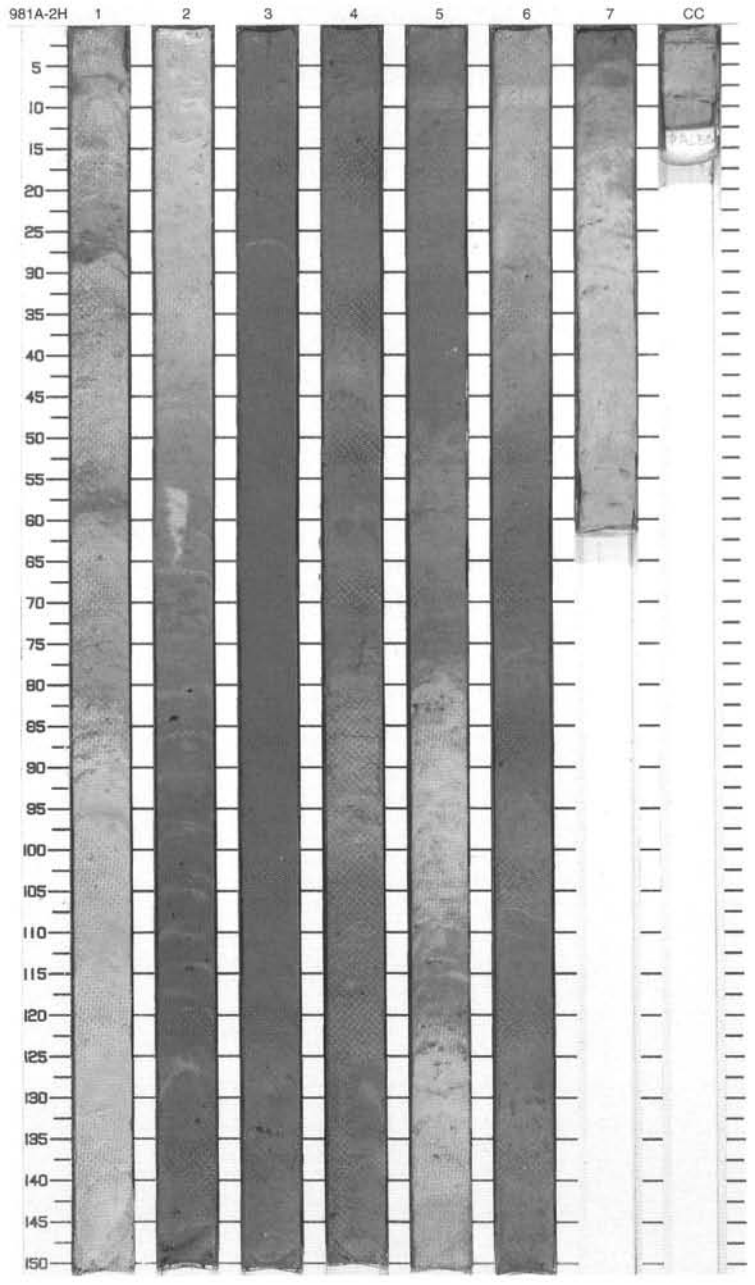
SITE 981 HOLE A CORE 1H CORED 0.0 - 6.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–6		1	Pleistocene			S	2.5Y 4/2	SILTY CLAY WITH NANNOFOSSILS and CLAYEY NANNOFOSSIL MIXED SEDIMENT General Description: The core contains gray (5Y 5/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT and dark gray (5Y 4/1) SILTY CLAY WITH NANNOFOSSILS. Most of the transitions are gradational. The top 20 cm is a brown (10YR 4/3) clayey nannofossil mixed sediment, with a sharp lower contact. Disseminated pyrite is present throughout the core with the first distinct concentrations beginning at Section 1, 146 cm. Coarse layers are present in: Section 2, 18–40 cm, Section 3, 22–28 cm and 38–38.5 cm, and Section 4, 114–144 cm. Thin black and greenish black bands are present in Secton 3, 146 and 149 cm, and in Section 4, 98 cm.
						S	5Y 5/1	
		2					5Y 4/1	
		3				D	5Y 4/1 To 5Y 5/1	
		4					5Y 5/1	
		5						
		CC				M		

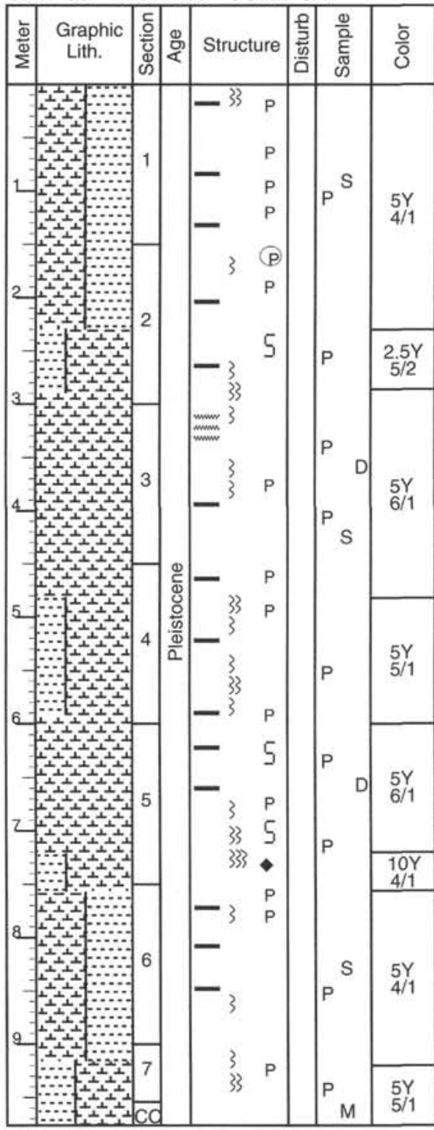


SITE 981 HOLE A CORE 2H CORED 6.5 - 16.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene		W	S	5Y 5/1	NANNOFOSSIL OOZE WITH CLAY and CLAY WITH NANNOFOSSILS General Description: This core contains gray (5Y 5/1 to 5Y 6/1) NANNOFOSSIL OOZE WITH CLAY alternating with gray to dark gray (5Y 4/1 to 5Y 5/1) CLAY WITH NANNOFOSSILS. Color changes are gradual and the core is slightly mottled throughout. Slight to moderate bioturbation is evident throughout. Discrete *Zoophycos* traces occur in Sections 2 and 5 and faint greenish gray bands are present in Sections 4 and 5.
							5Y 6/1	
		2					5Y 6/1 To 5Y 4/1	
		3				S D	5Y 5/1	
							5Y 4/1 To 5Y 5/1	
		4					5Y 5/1	
							5Y 4/1	
		5				D	5Y 5/1	
							5Y 6/1	
							5Y 5/1	
		6					5Y 6/1 To 5Y 5/1	
		7					5Y 4/1 To 5Y 5/1	
		CC			!	M		



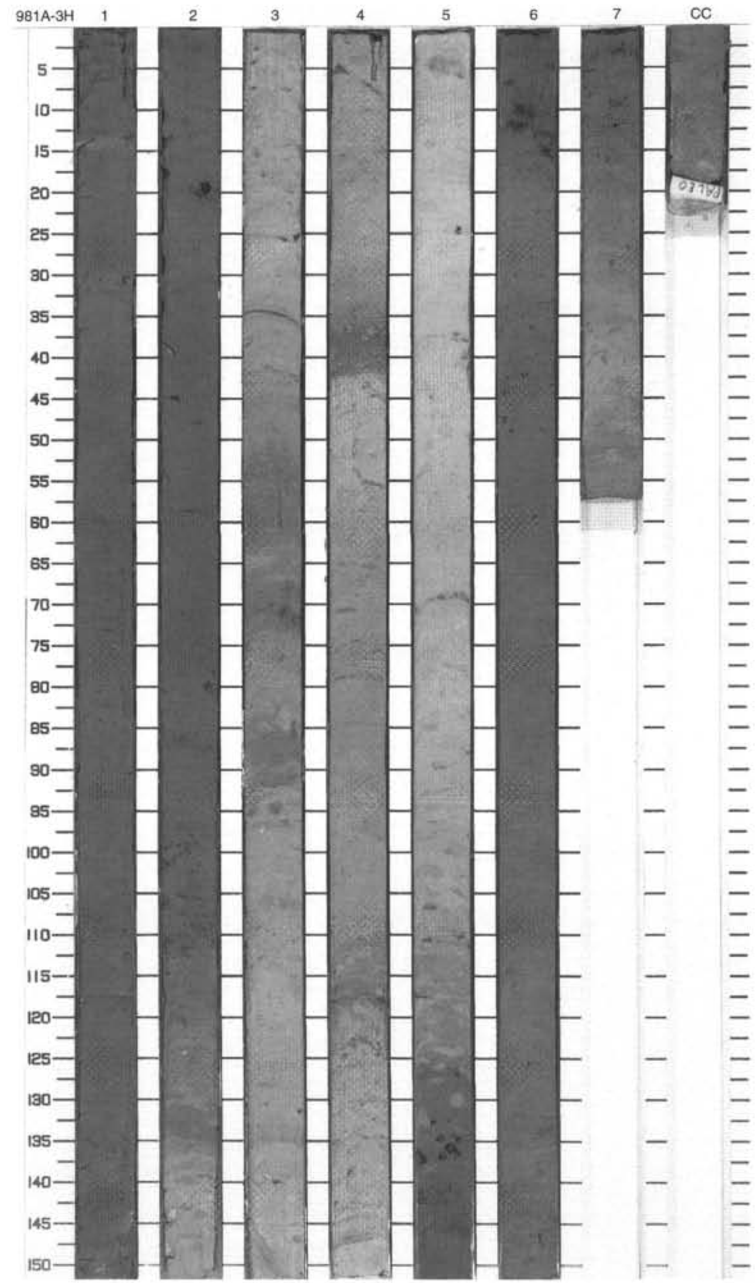
SITE 981 HOLE A CORE 3H CORED 16.0 - 25.5 mbsf



Description

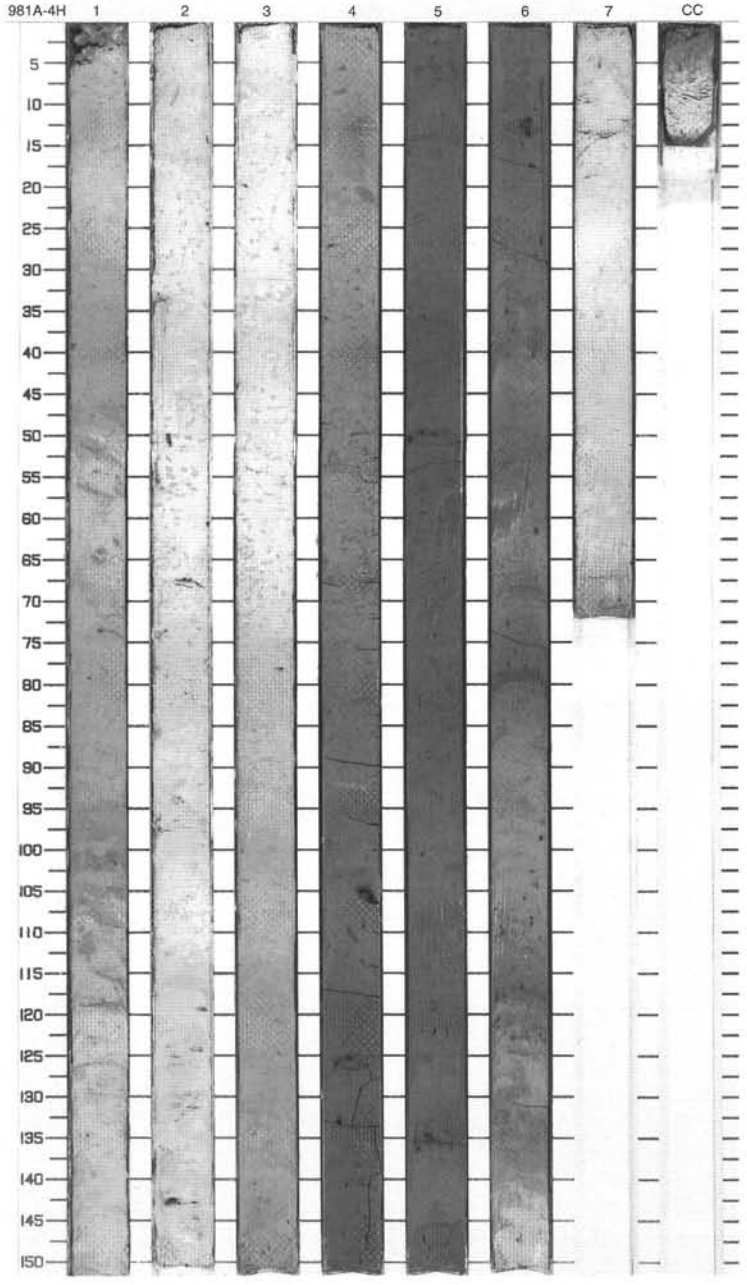
CLAYEY NANNOFOSSIL MIXED SEDIMENT and NANNOFOSSIL OOZE

General Description:
This core contains dark gray (5Y 4/1) CLAYEY NANNOFOSSIL MIXED SEDIMENTand light gray (5Y 6/1) NANNOFOSSIL OOZE. Most of the color changes are gradational. Thin greenish bands are present throughout thr core. Disseminated pyrite is present throughout the core and a discrete pyrite concrete occurs at Section 2, 19–20 cm. A dropstone layer is present at Section 5, 132–138 cm. Coarse layers occur at Section 1, 11–15 cm, 134–150 cm, Section 2, 80–113 cm, Section 4, 110–125 cm, and Section 7, 8–28 cm.



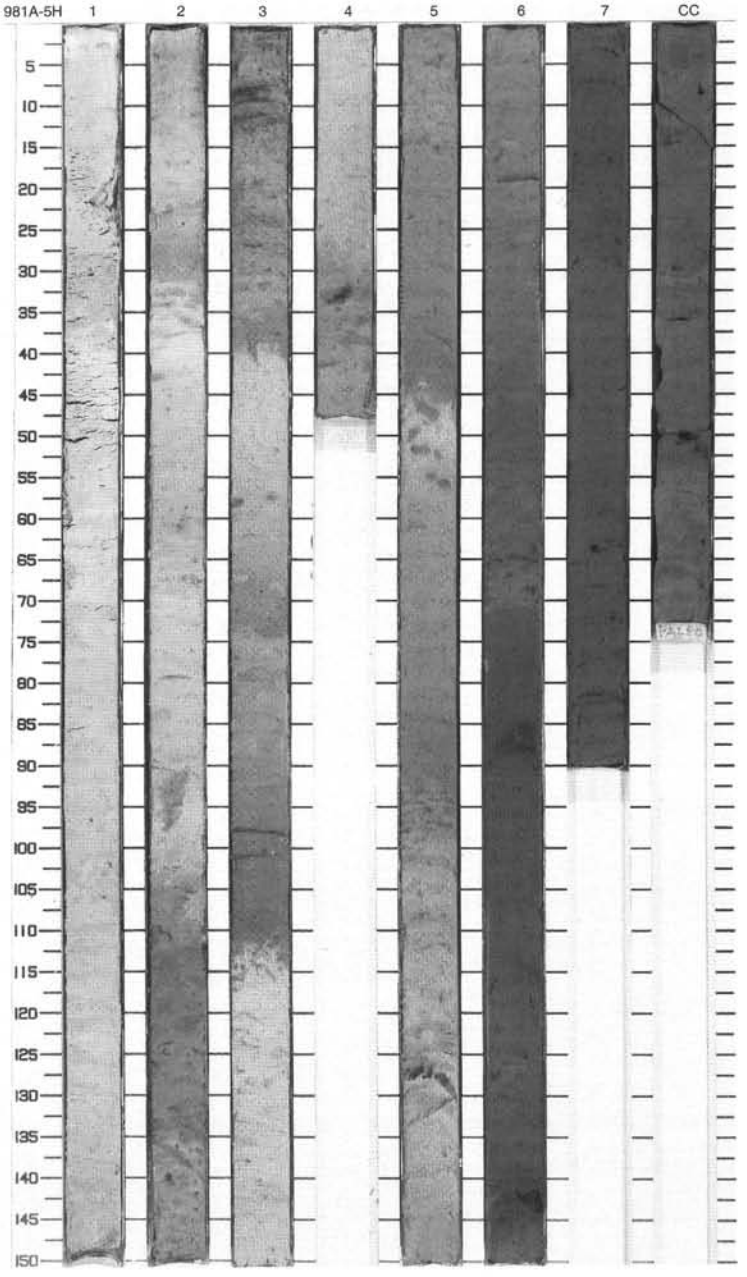
SITE 981 HOLE A CORE 4H CORED 25.5 - 35.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene		W	P	5Y 5/1	NANNOFOSSIL OOZE WITH CLAY General Description: This core contains dark gray to gray (5Y 4/1 to 5Y 6/1) NANNOFOSSIL OOZE WITH CLAY. The color variations reflect differences in carbonate content. All color changes are gradational. Bioturbation occurs throughout the core, and is prominent as color mottling and individual burrows at color transitions. The sediment is soft, and drilling deformation occurs at the top of Section 1 and along the core edge at scattered intervals. Pale green bands throughout contain 2–3% glauconite.
							5Y 6/1 To 5Y 5/1	
		2				S	5Y 6/1 To 5Y 4/1	
						P		
		3				D	5Y 6/1	
						P	5Y 6/1 To 5Y 5/1	
		4		Ⓟ ◇		S	5Y 5/1 To 5Y 4/1	
						P		
		5				D	5Y 4/1	
						P		
		6				P	5Y 5/1	
		7				P	5Y 6/1	
		CC				M	5Y 5/1	



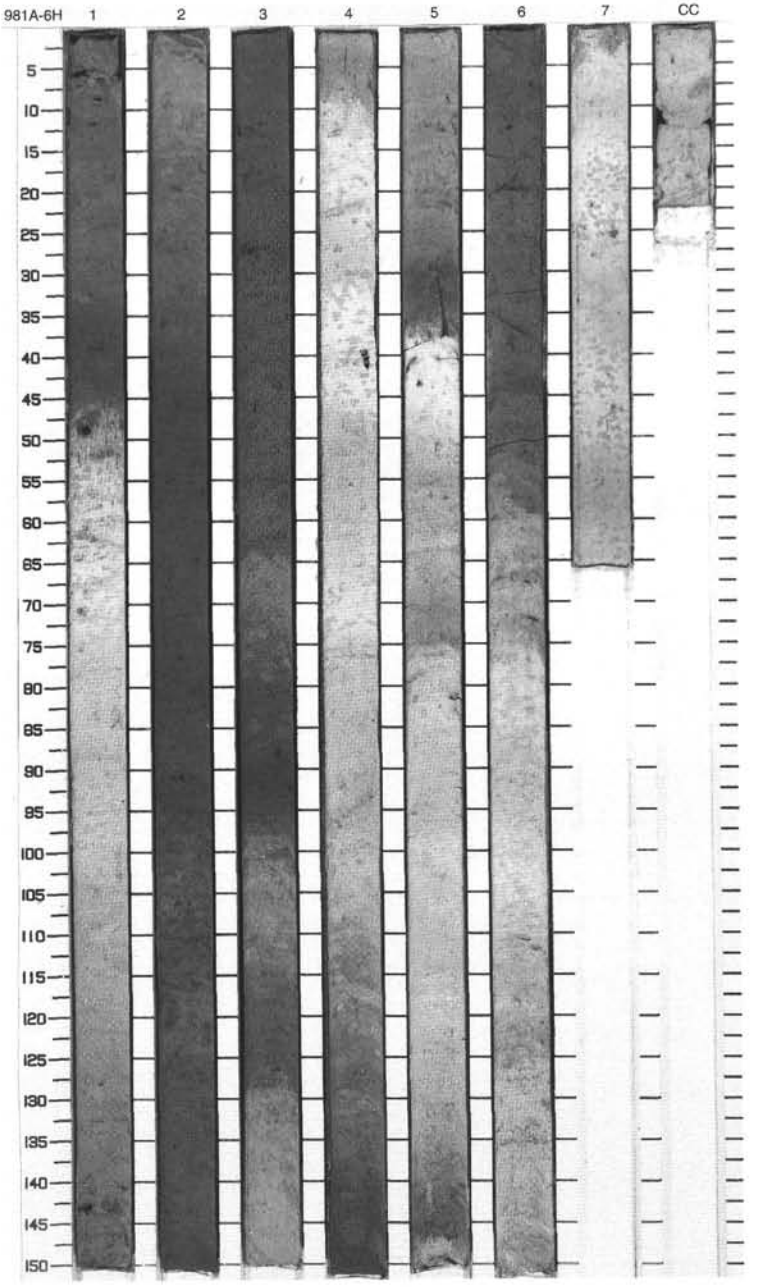
SITE 981 HOLE A CORE 5H CORED 35.0 - 44.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene	P, ◇		P	5Y 6/1	NANNOFOSSIL OOZE WITH CLAY and CLAYEY NANNOFOSSIL MIXED SEDIMENT General Description: This core contains gray (5Y 5/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT interbedded with light gray (5Y 6/1) NANNOFOSSIL OOZE WITH CLAY, with minor amounts of gray (5Y 5/1) SILTY CLAYEY NANNOFOSSIL MIXED SEDIMENT. Lithologic and color changes occur gradually, especially the dark to light transition. In some areas, there is a sharp break when darker sediment overlies lighter sediment. Several of the coarser layers (silty clayey nannofossil mixed sediment) are too thin to be shown on the graphic lithology log. Poorly defined greenish color bands are present in several intervals throughout the core. A 2.2 cm long dropstone in Section 5, 142 cm, is layered, black, subrounded mudstone with striations.
		2				P	5Y 5/1	
							5Y 6/1	
		3				P	5Y 5/1	
						D	5Y 5/1 To 5Y 6/1	
		4				P	5Y 5/1 To 5Y 6/1	
		5				D P		
		6		P, ◇		P	5Y 5/1	
		7				P		
		CC				M		



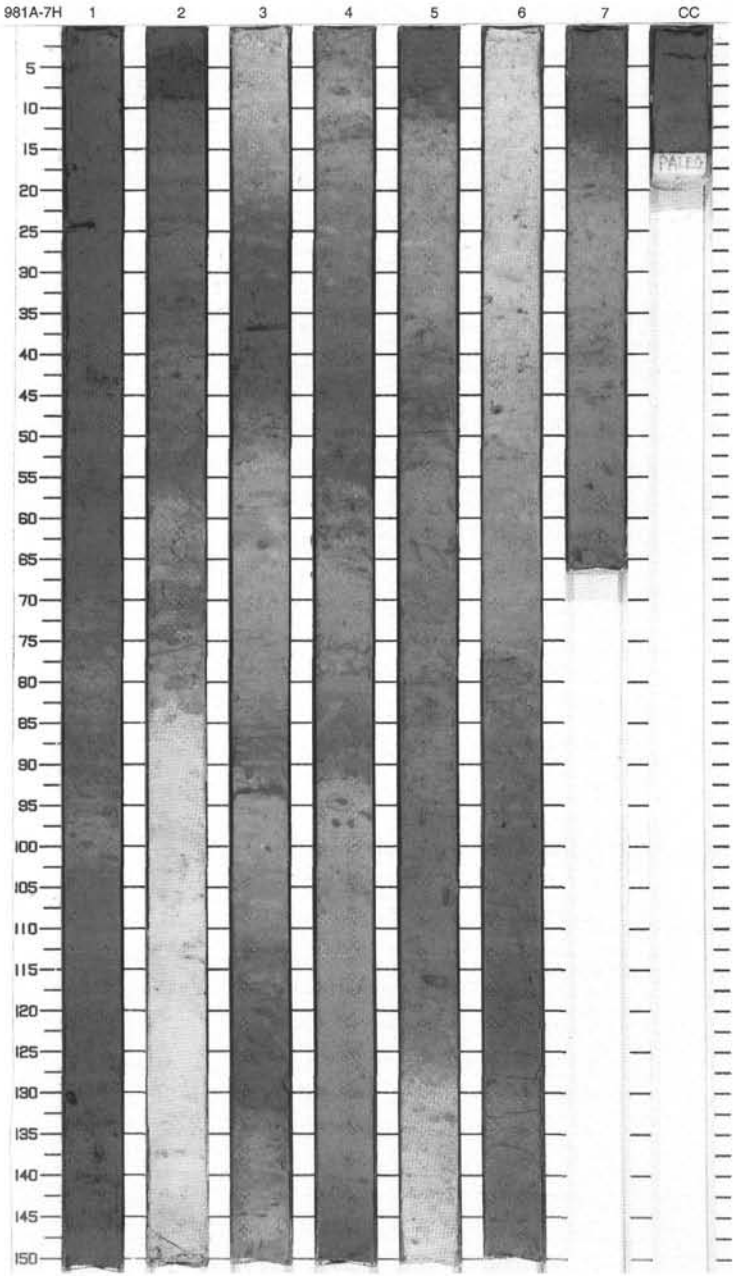
SITE 981 HOLE A CORE 6H CORED 44.5 - 54.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	Pleistocene			P	5Y 4/1	NANNOFOSSIL OOZE WITH CLAY and NANNOFOSSIL OOZE WITH FORAMINIFERS General Description: This core contains dark gray to gray (5Y 4/1 to 5Y 5/1) NANNOFOSSIL OOZE WITH CLAY interbedded with gray to very light gray dark (5Y 6/1 to 5Y 7/1) NANNOFOSSIL OOZE WITH FORAMINIFERS. Light to moderate bioturbation occurs throughout. Color changes are gradational and mottled. Coarse layers containing foraminifers occur in Sections 1 and 3.
							5Y 7/1 To 5Y 6/1	
2		2				P	5Y 4/1 To 5Y 5/1	
3		3				D	5Y 4/1	
						P	5Y 5/1	
4		4					5Y 6/1	
5						P S	5Y 6/1	
6		5				D	5Y 7/1	
7						P	5Y 4/1	
8		6				P S	5Y 5/1	
							5Y 6/1	
9		7				P	5Y 5/1	
10		CC				M		



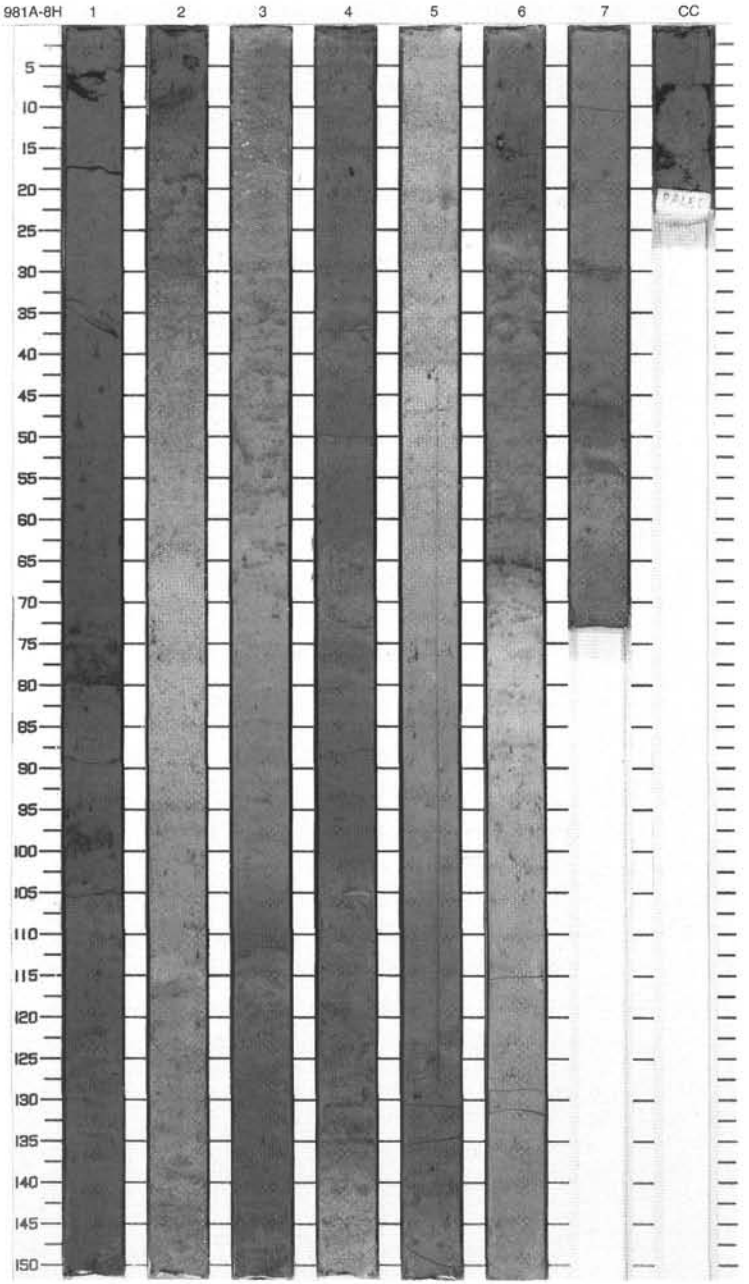
SITE 981 HOLE A CORE 7H CORED 54.0 - 63.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene	P, ◇		P	5Y 5/1; 5Y 4/1	NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY, CLAYEY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS and CLAYEY SILT WITH NANNOFOSSILS AND SAND General Description: This core contains gray (5Y 6/1) NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY and gray (5Y 5/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS and dark gray (5Y 4/1) CLAYEY SILT WITH NANNOFOSSILS AND SAND. Most layers have gradational boundaries. The same color sequence (5Y 4/1 to 5Y 5/1) is repeated throughout the Sections 3 to 5. A subrounded vesicular basaltic dropstone is present at Section 1, 132 cm. Halo burrows occur at Section 4, 93–95 cm, and at Section 5, 115–116 cm.
		2		P		S	5Y 5/1	
		3		P		P	5Y 6/1	
		4		P		D	5Y 4/1 To 5Y 6/1	
		5				S		
		6				P		
		7		P		D	5Y 6/1	
		CC				P	5Y 5/1	
						P	5Y 4/1	
						P	5Y 5/1	
						M	5Y 6/1	



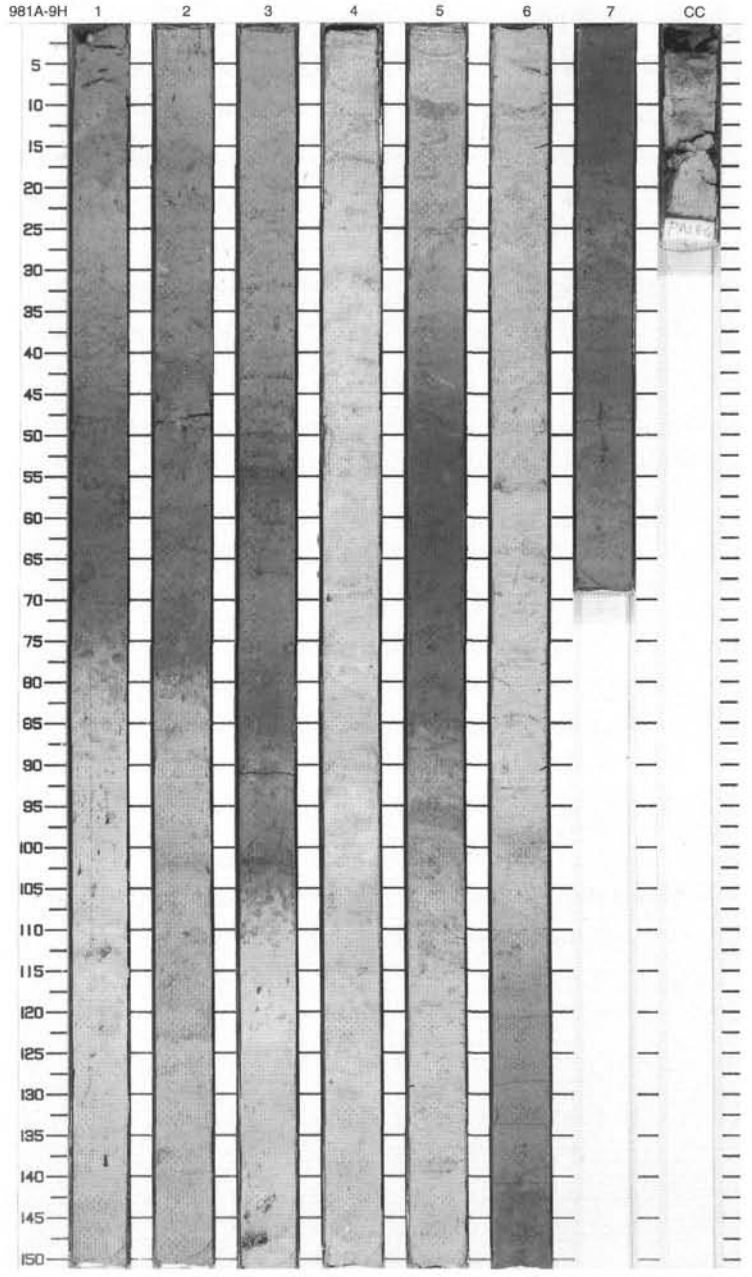
SITE 981 HOLE A CORE 8H CORED 63.5 - 73.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene	P, P, ◇	○○○	P, P, S D, P, P, D, P, S, P M	5Y 4/1	NANNOFOSSIL OOZE and CLAYEY NANNOFOSSIL MIXED SEDIMENT General Description: This core contains light grayish (5Y 6/1) NANNOFOSSIL OOZE and dark gray (5Y 4/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT. The foraminifer content increases at Section 2, 28–100 cm, and in the interval Section 2, 137 cm to Section 3, 60 cm. Disseminated pyrite occurs in both burrows and thin horizons. Dropstones are present at Section 2, 4–5 cm (rounded dark igneous rock), and at Section 6, 13–14 cm (rounded reddish magmatic rock).
		2					10Y 6/1	
		3		S			5Y 6/1	
		4		S			5Y 4/1	
		5		P, ◇			5Y 6/1	
		6		P			5Y 4/1	
		7					10Y 6/1	
		CC					5Y 4/1	

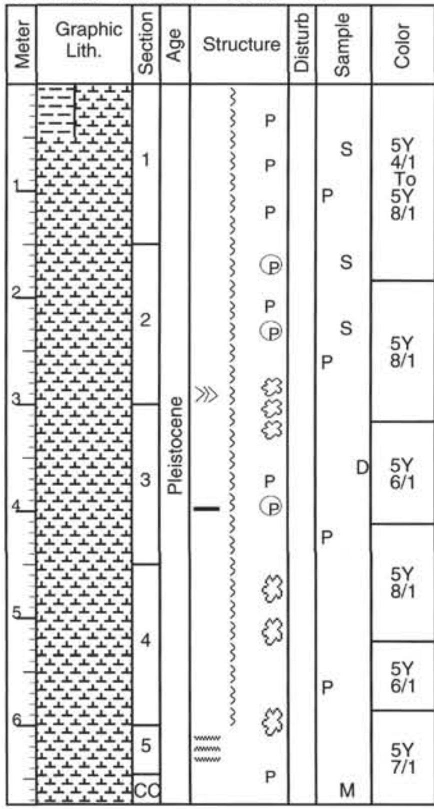


SITE 981 HOLE A CORE 9H CORED 73.0 - 82.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–7, CC	Pleistocene	P, P, (P), (P), P, P		P, S, P, D, P, S, P, D, P, S, P	5Y 4/1; 5Y 8/1; 5Y 4/1; 5Y 7/1; 5Y 4/1; 5Y 8/1; 5Y 4/1; 5Y 8/1; 5Y 4/1	NANNOFOSSIL OOZE and NANNOFOSSIL MIXED SEDIMENT General Description: This core contains white (5Y 8/1) to light gray (5Y 7/1) NANNOFOSSIL OOZE alternating with dark gray (5Y 4/1) NANNOFOSSIL MIXED SEDIMENT. Nannofossil ooze with foraminifers occurs as a minor lithology on the uppermost part of the core. Most layers have gradational contact. Color changes are also gradational except one sharp color contact between Sections 1 and 2. A thin color band is present in Section 3. Some disseminated pyrite occurs in thin dispersed horizons throughout Sections 1 to 3.



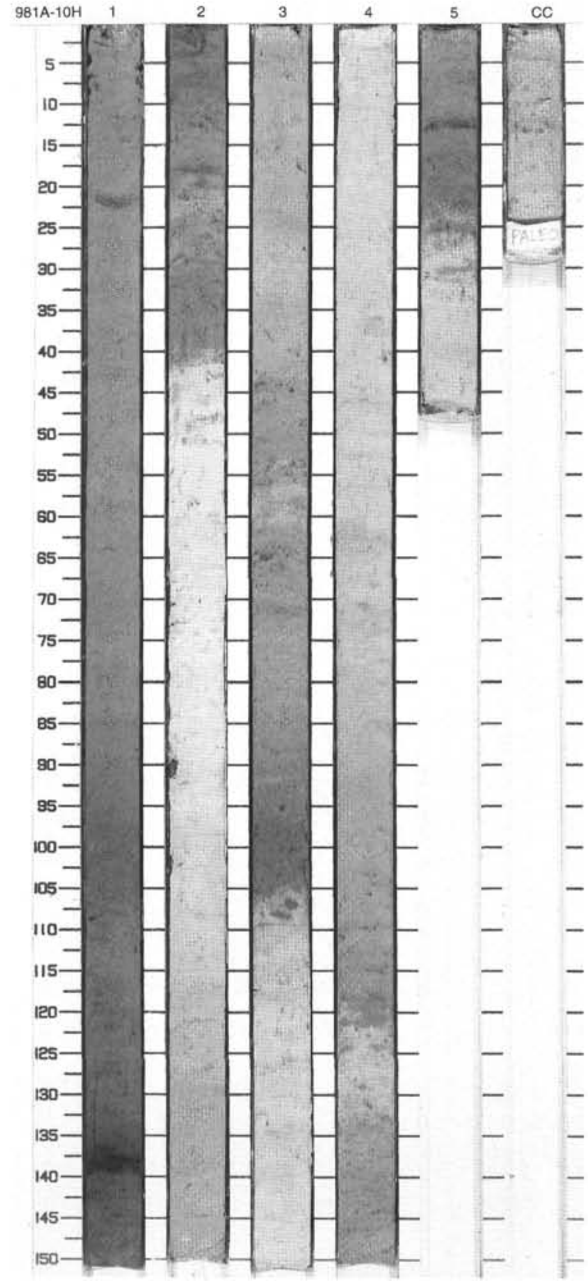
SITE 981 HOLE A CORE 10H CORED 82.5 - 92.0 mbsf



Description

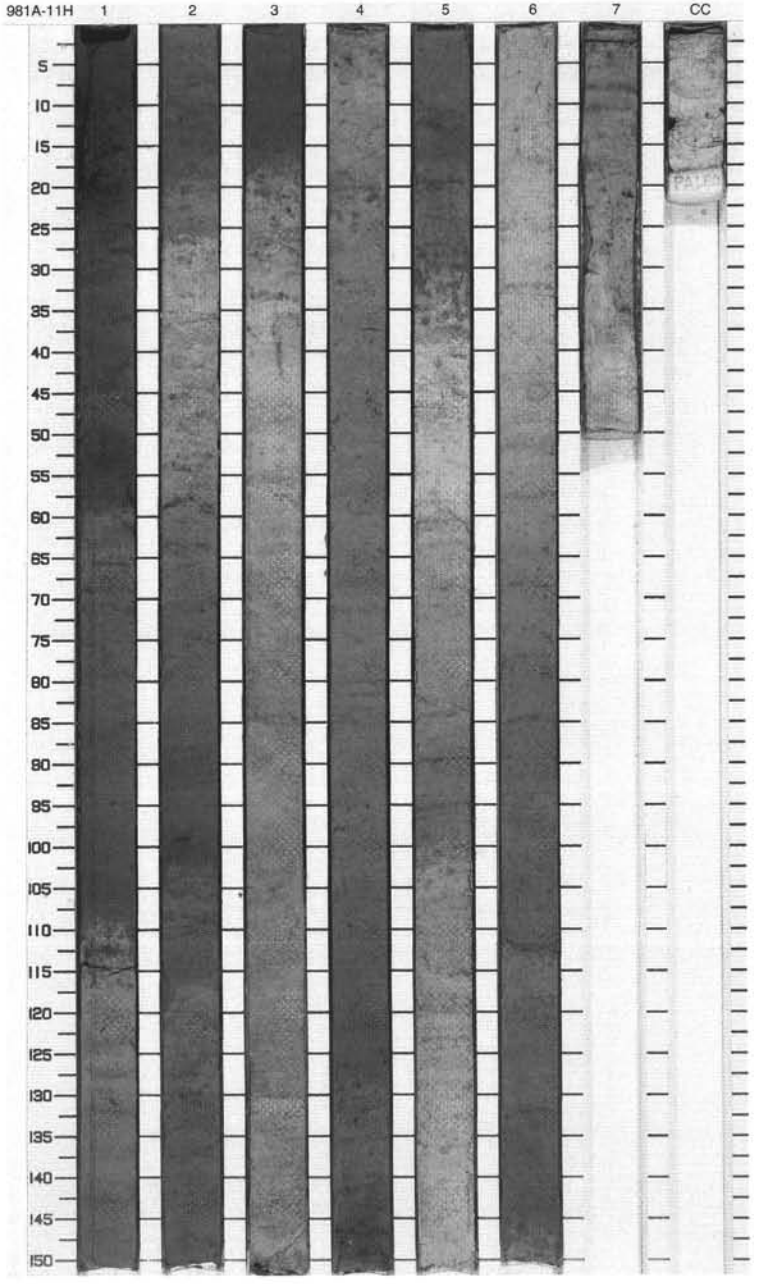
NANNOFOSSIL OOZE and CLAYEY NANNOFOSSIL MIXED SEDIMENT

General Description:
This core contains white (5Y 8/1) to light gray (5Y 6/1) NANNOFOSSIL OOZE and a dark gray (5Y 4/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT at the uppermost part of the core. The color changes are gradational. The entire core is slightly bioturbated, and pyrite occurs both in thin horizons and nodules. A thin dark color band is present in Section 3. A medium color band with gradational contact occurs in Section 5.



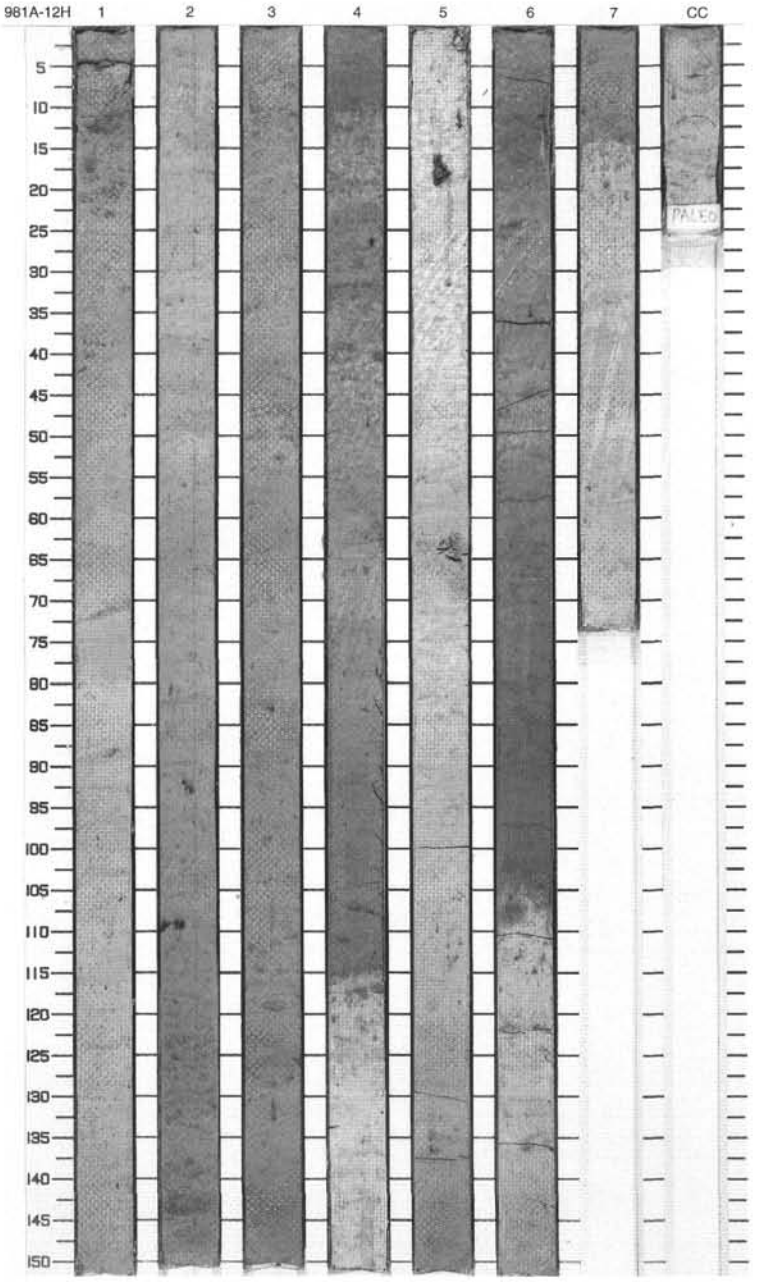
SITE 981 HOLE A CORE 11H CORED 92.0 - 101.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	late Pliocene–Pleistocene			P S	10Y 4/1	NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY, CLAYEY NANNOFOSSIL MIXED SEDIMENT and SILTY CLAY WITH SAND General Description: This core contains grayish (5Y 6/1) NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY and dark gray (5Y 4/1) NANNOFOSSIL MIXED SEDIMENT. The uppermost part of the core is composed by some dark gray (10Y 4/1) SILTY CLAY WITH SAND. Lost layers have gradational contact. Disseminated pyrite occurs in thin layers in Sections 1 and 2. A dropstone is present at 18 cm in Section 1.
							5Y 4/1	
		2					5Y 6/1	
						P	5Y 4/1	
		3				D	5Y 6/1	
						P		
		4					5Y 4/1	
		5				D	5Y 6/1	
						P S	5Y 4/1	
							5Y 6/1	
		6				S	5Y 4/1	
						P		
		7				M	5Y 6/1	
		CC						

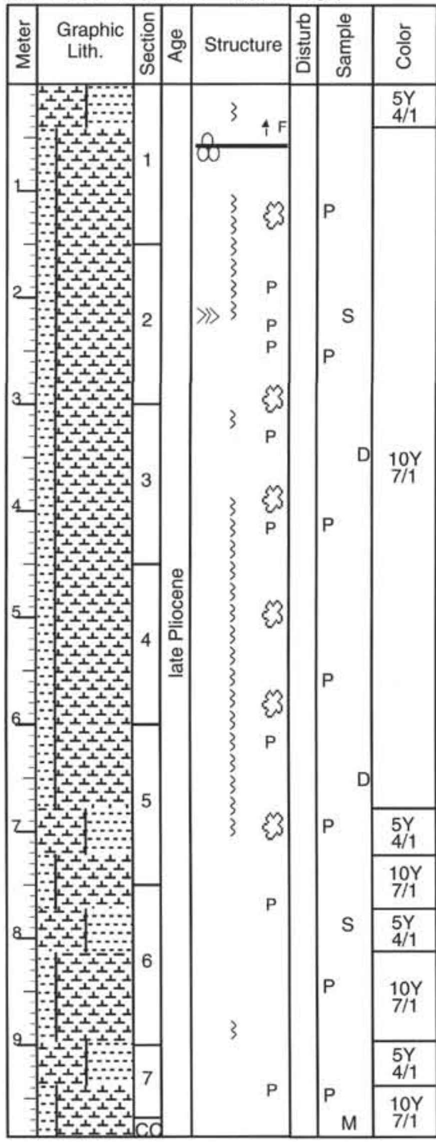


SITE 981 HOLE A CORE 12H CORED 101.5 - 111.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–10		1–7, CC	late Pliocene				10Y 7/1 To 10Y 5/1; 5Y 5/1; 10Y 7/1; 5Y 5/1	NANNOFOSSIL OOZE WITH FORAMINIFERS and NANNOFOSSIL OOZE WITH CLAY General Description: This core contains light gray (10Y 7/1) NANNOFOSSIL OOZE WITH FORAMINIFERS alternating with gray (5Y 5/1) NANNOFOSSIL OOZE WITH CLAY. The entire core is slightly mottled. The color changes are gradational and the sediment is homogeneous.



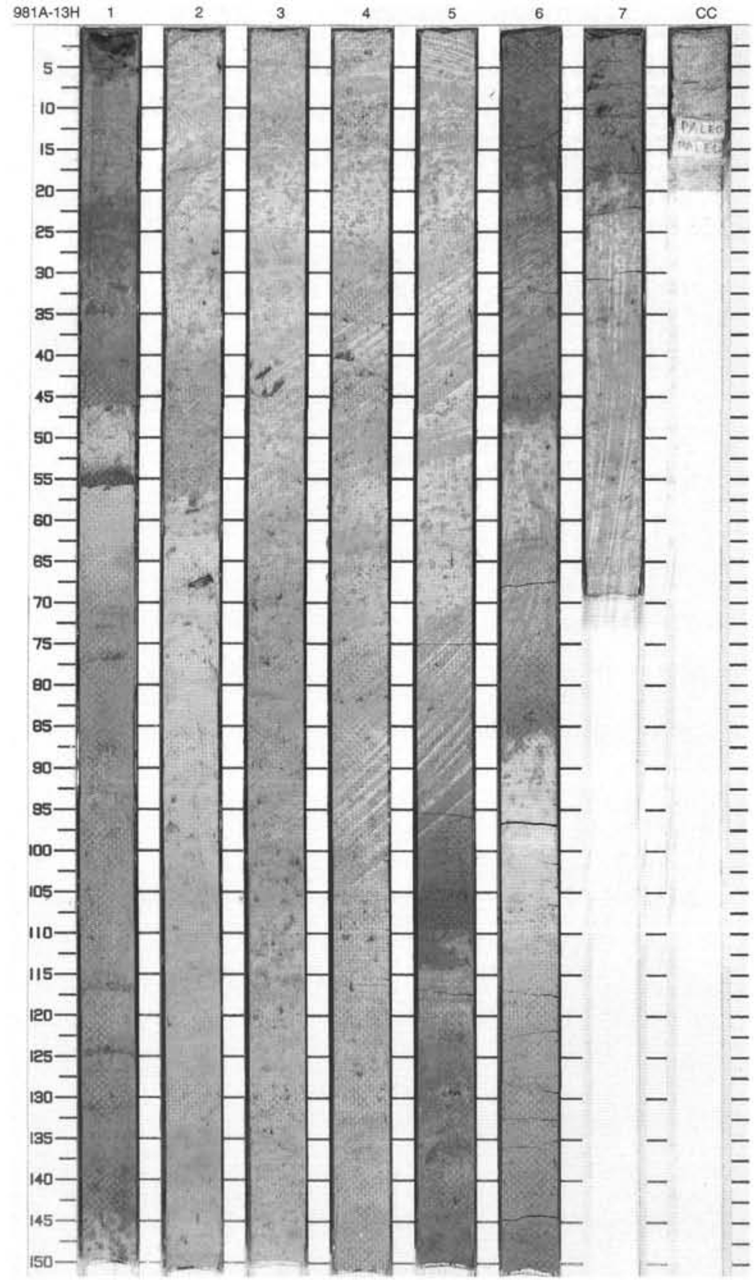
SITE 981 HOLE A CORE 13H CORED 111.0 - 120.5 mbsf



Description

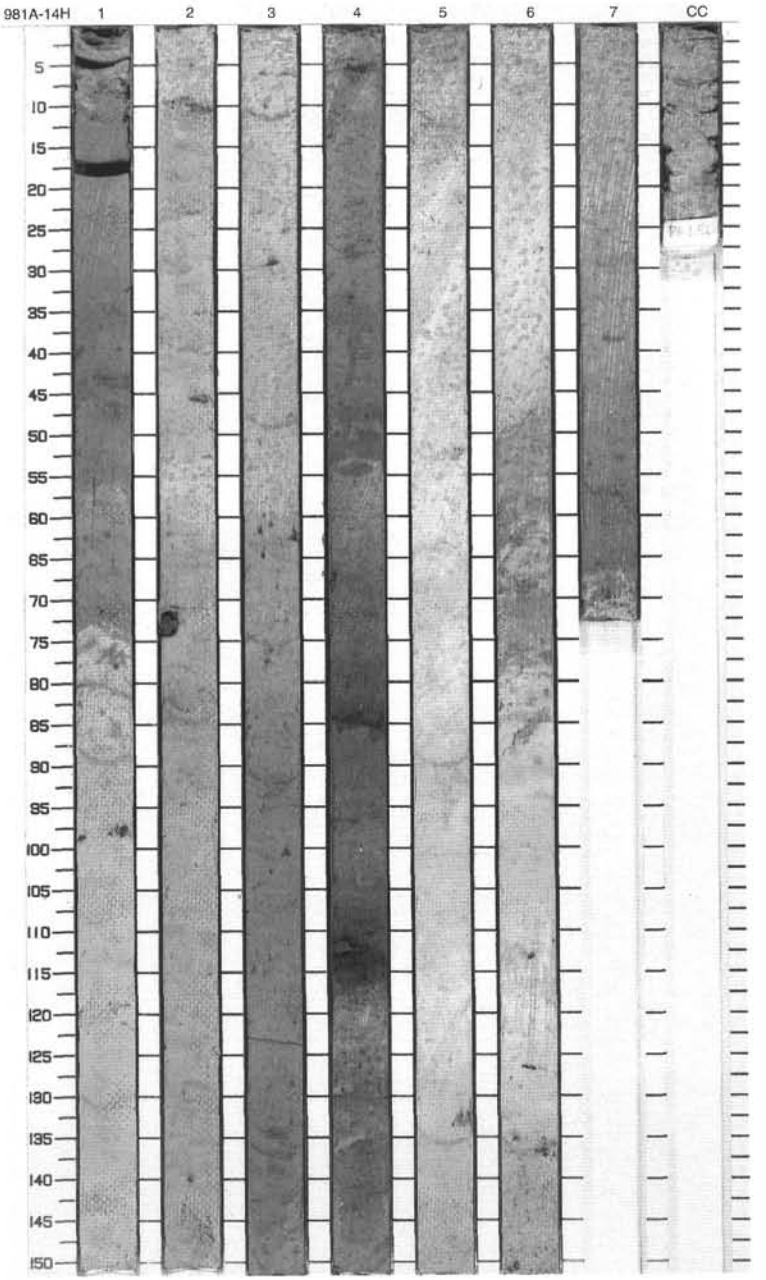
NANNOFOSSIL OOZE WITH CLAY and CLAYEY NANNOFOSSIL MIXED SEDIMENT

General Description:
This core contains light gray (10Y7/1) NANNOFOSSIL OOZE WITH CLAY alternating with dark gray (5Y 4/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT. Most color changes are sharp but bioturbated. Some black disseminated blebs of pyrite are dispersed throughout the entire core. A 3-cm-long pyrite filled burrow is situated at 67 cm in Section 2. A foraminifers layer with a very sharp lower contact and a gradational upper contact occurs in Section 1 betwen 53 cm and 55 cm.

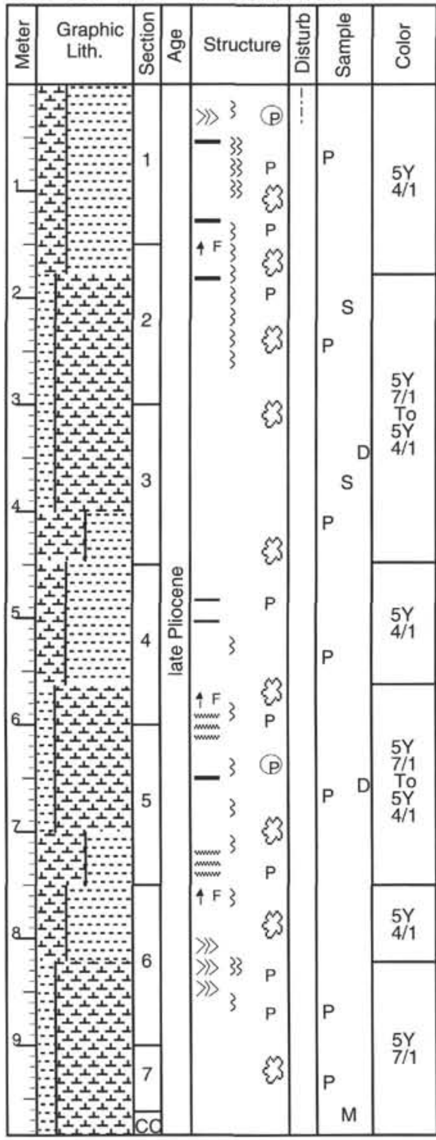


SITE 981 HOLE A CORE 14H CORED 120.5 - 130.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–10		1	late Pliocene			S	5Y 5/1	NANNOFOSSIL OOZE WITH CLAY and NANNOFOSSIL CLAY General Description: This core contains light greenish gray (5GY 7/1) and light gray (5Y 7/1) NANNOFOSSIL OOZE WITH CLAY alternating with gray (5Y 5/1) NANNOFOSSIL CLAY. Some blebs of disseminated pyrite are sparsely dispersed throughout the core. Some color pyrite rich layers occur in Sections 1 and 4. Angular dark dropstones are present in Sections 2 and 4. Top of the core is disturbed due to coring.
							5Y 7/1	
						P	5GY 7/1	
				P				
		2		Ⓟ				
				◇		P		
							5Y 7/1	
		3				D		
						P		
		4		◇			5Y 5/1	
				P		P		
				P			5GY 7/1	
				P		S		
				P		D	5GY 7/1 To 5Y 7/1	
				P				
		5		P		P		
				P				
				P				
				P				
				P				
		6		P		P	5Y 5/1	
							5GY 7/1	
						P		
							5Y 7/1	
		7				P		
		CC		P		M	5GY 7/1	



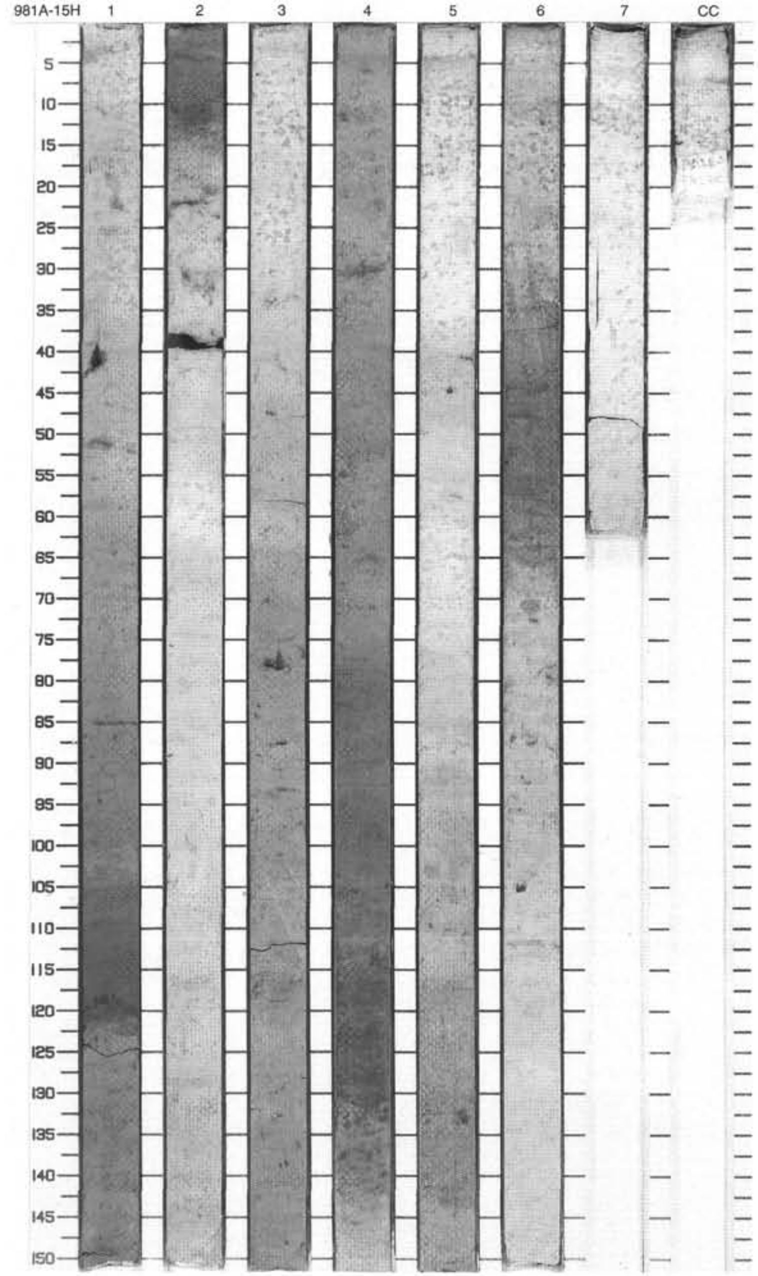
SITE 981 HOLE A CORE 15H CORED 130.0 - 139.5 mbsf



Description

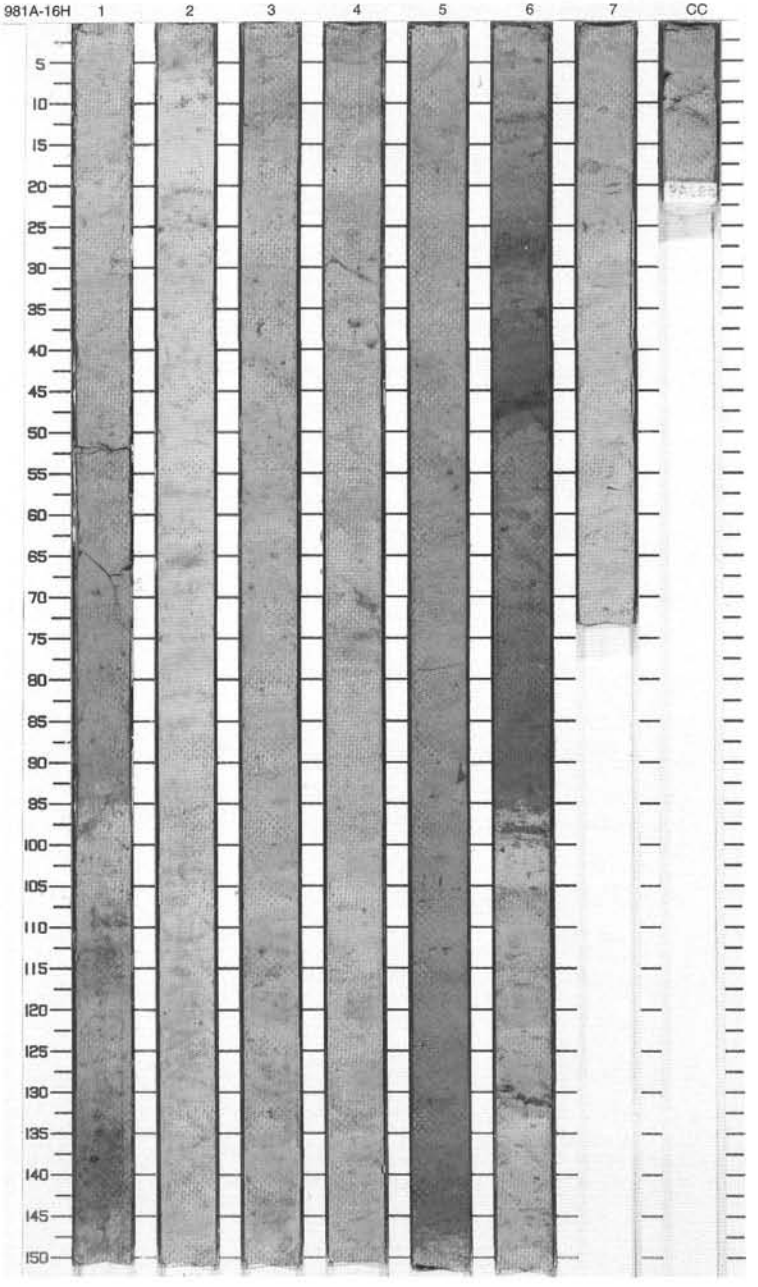
NANNOFOSSIL OOZE WITH CLAY and NANNOFOSSIL CLAY

General Description:
This core contains dark gray (5Y 4/1) NANNOFOSSIL CLAY alternating with (5Y 7/1) light gray NANNOFOSSIL OOZE WITH CLAY. The entire core is slighltly to moderately mottled. Fining-upward sequences occur in Sections 2, 4, and 5. These sequences have a sharp lower contact and a gradational upper one. Disseminated pyrite occurs in thin dark layers. Color changes are sharp but bioturbated. Some greenish burrows are dispersed throughout the entire core. Pyritized long burrows are present in Sections 1 and 5.



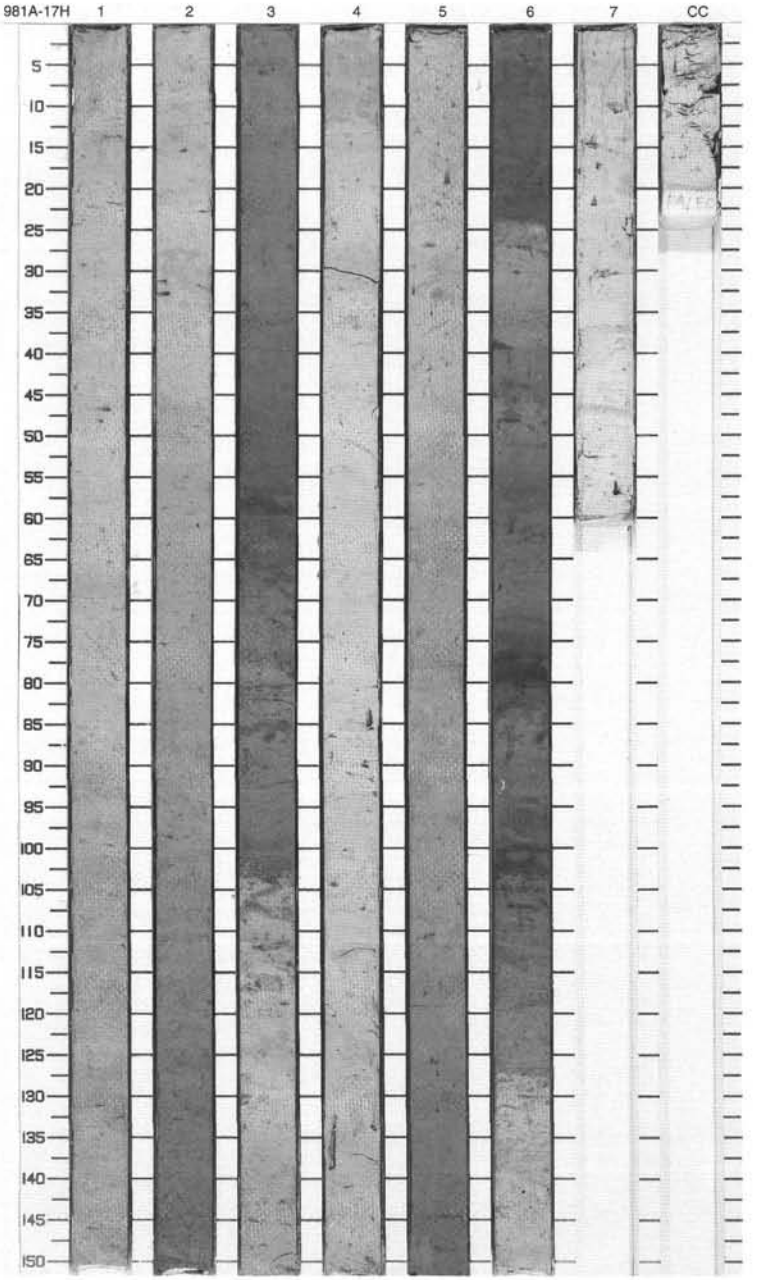
SITE 981 HOLE A CORE 16H CORED 139.5 - 149.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	late Pliocene			P	10Y 4/1	NANNOFOSSIL OOZE WITH CLAY, NANNOFOSSIL CLAY MIXED SEDIMENT and NANNOFOSSIL CLAY General Description: This core contains gray (10Y 6/1) NANNOFOSSIL OOZE WITH CLAY alternating with dark gray (10Y 4/1) NANNOFOSSIL CLAY MIXED SEDIMENT and dark gray (5Y 4/1) NANNOFOSSIL CLAY. The entire core is slightly color mottled. Pyrite occurs both in disseminated thin horizons and filled burrows. Color changes usually gradational, are sharp in Section 6. Some greenish color layers occur in Sections 5 and 6. Fining-upward sequences are present in Sections 2, 5, and 6.
							10Y 6/1	
		2		F		P	10Y 4/1	
						S	10Y 6/1	
		3				P		
							10Y 4/1	
						D		
		4				P		
						S		
		5				P		
							10Y 6/1 To 10Y 4/1	
						D		
		6		F F		P S P	10Y 6/1 5Y 4/1	
		7				P	10Y 6/1	
		CC				M		



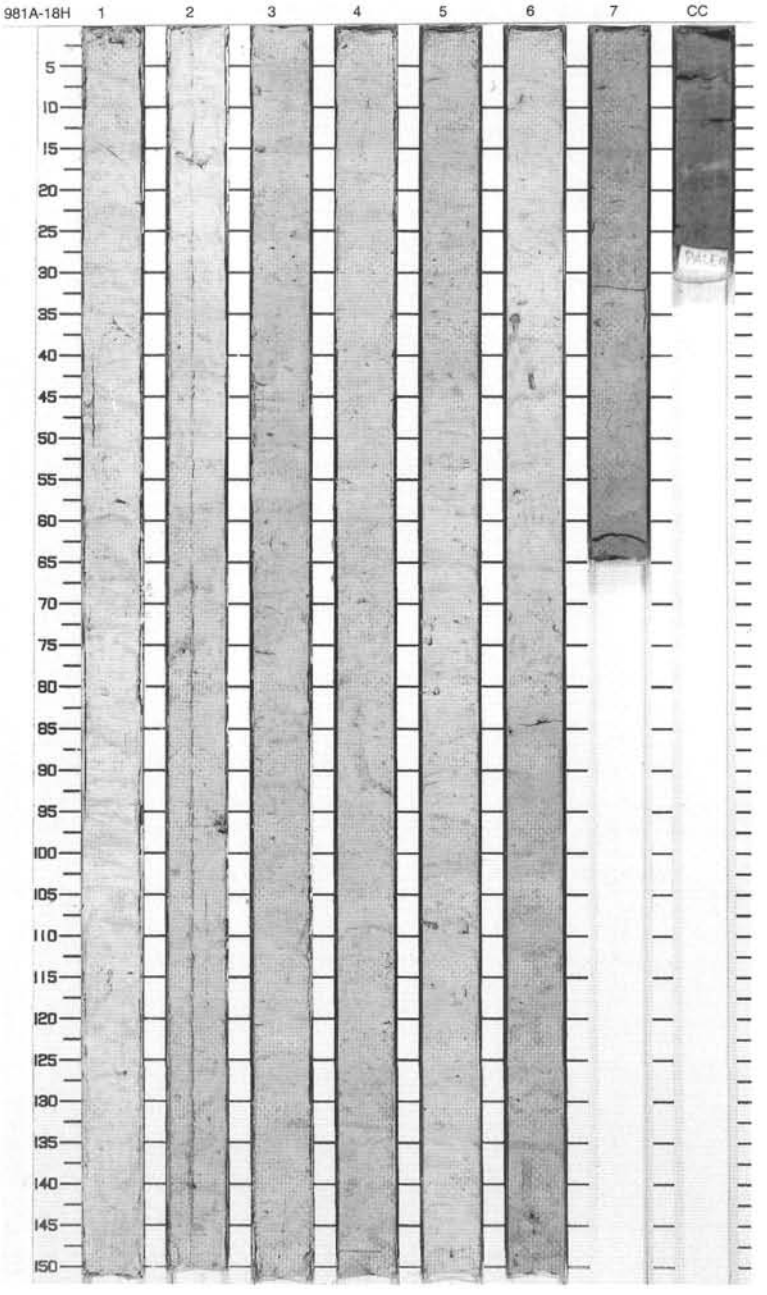
SITE 981 HOLE A CORE 17H CORED 149.0 - 158.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	late Pliocene			P	5Y 6/1 To 5GY 6/1	CLAYEY NANNOFOSSIL OOZE and CLAY WITH NANNOFOSSILS General Description: The core mainly contains greenish gray (5GY 6/1) and gray (5Y 5/1) CLAYEY NANNOFOSSIL OOZE alternating with a dark gray (5Y 4/1) CLAY WITH NANNOFOSSILS. The color changes are gradational in the uppermost 4 sections, and the sediment is homogeneous. The color changes are sharp in the lowermost sections. Small blebs of disseminated pyrite occurs in all sections and pyritized burrows are present at 10 cm and 55 cm in Section 7. Some darker layers occur in Sections 3 and 6, near to some distinct fining-upward sequences. Additionally, some greenish layers are present in Section 6 near to these sequences. There is a very sharp color contact at 60 cm and 130 cm in Section 6 before and after the fining-upward sequences.
		2				P	5GY 6/1 To 5Y 6/1	
		3		F, P, P		P D S	5Y 4/1 5Y 6/1	
		4		P		P S	5GY 6/1	
		5		P, P, P, P, P, P		D		
		6		F, F, F, F		P S P	5Y 6/1 5Y 4/1 5Y 6/1	
		7		P		P M	5GY 6/1	
		CC						



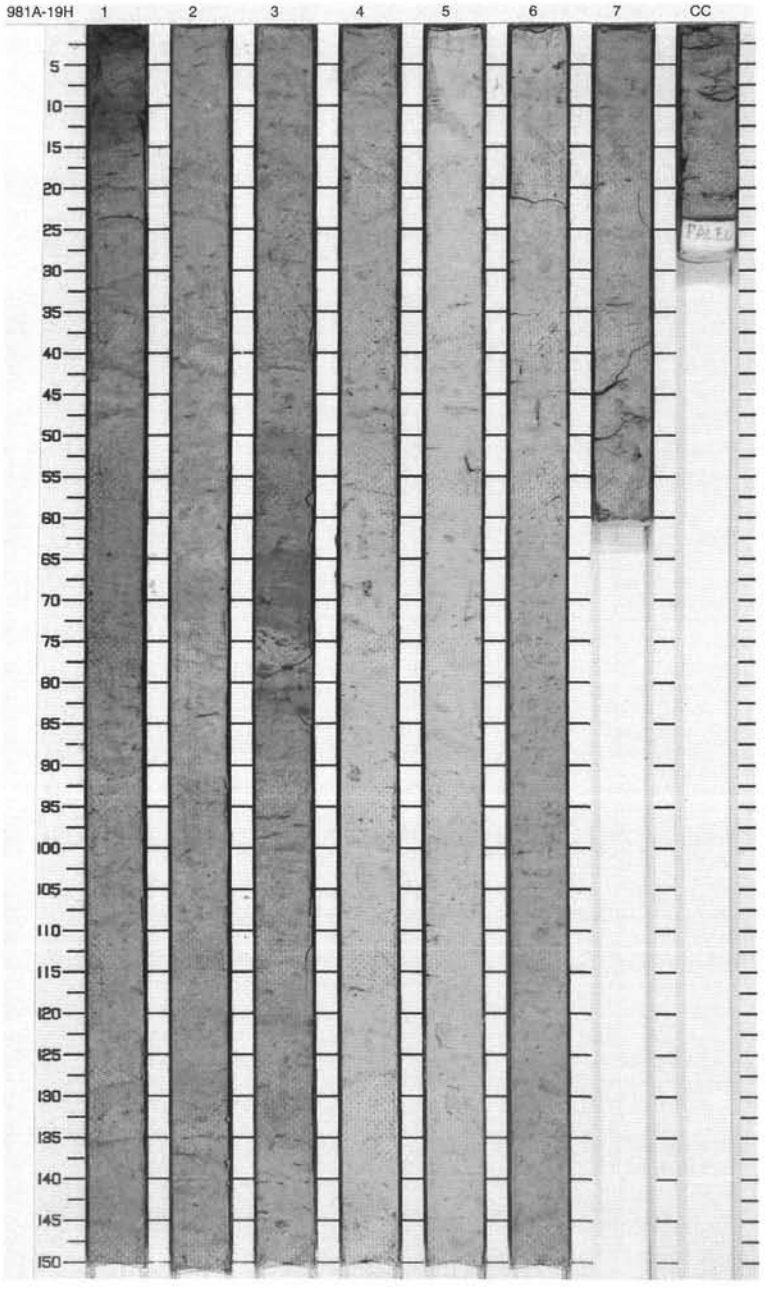
SITE 981 HOLE A CORE 18H CORED 158.5 - 168.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–7, CC	late Pliocene				5GY 7/1; 5GY 6/1; 5Y 5/1	NANNOFOSSIL OOZE WITH CLAY and NANNOFOSSIL OOZE WITH CLAY AND DIATOMS General Description: This core contains light greenish gray (5GY 7/1) NANNOFOSSIL OOZE WITH CLAY AND DIATOMS and greenish gray (5GY 6/1) to gray (5Y 5/1) NANNOFOSSIL OOZE WITH CLAY. The entire core is color mottled throughout and the sediment is quite homogeneous. Color changes are gradational. Disseminated pyrite is dispersed and 3 pyritized burrows are present at 96 cm in Section 2, 104 cm in Section 5, and 43 cm in Section 6.



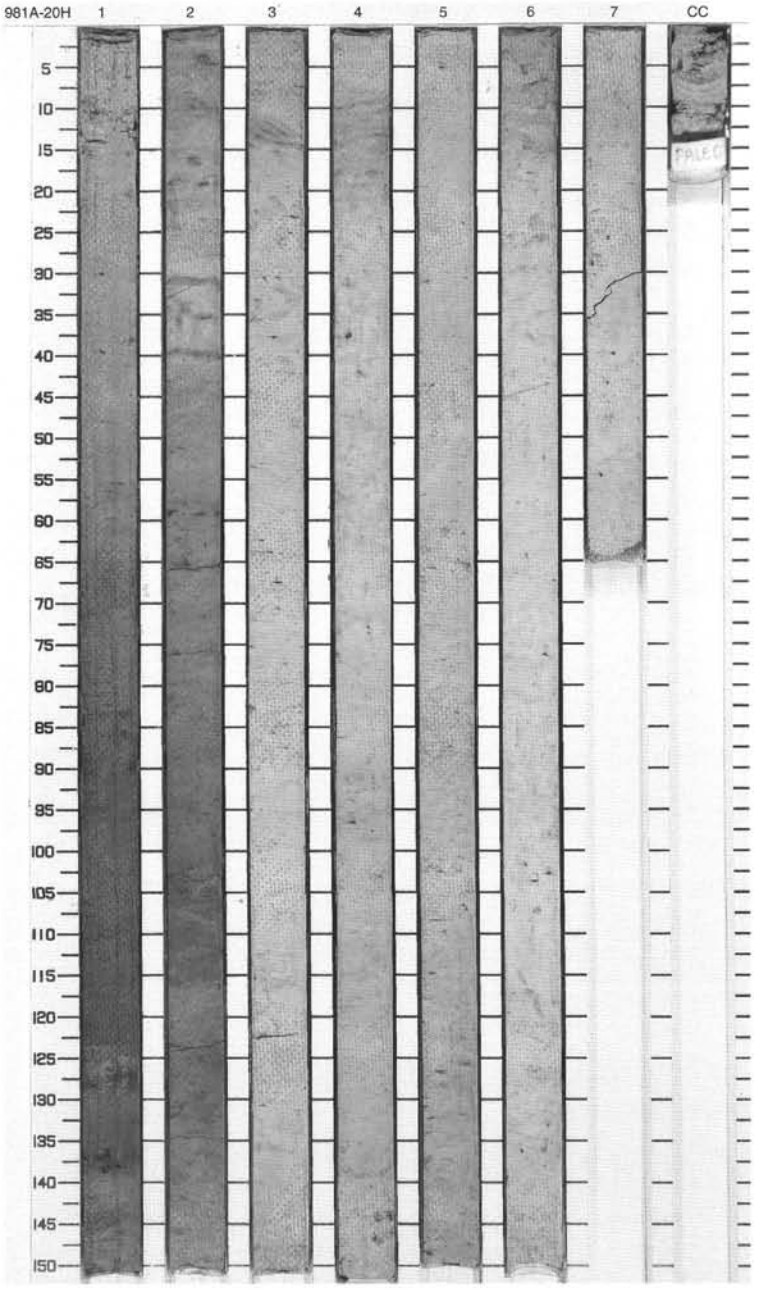
SITE 981 HOLE A CORE 19H CORED 168.0 - 177.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–7, CC	late Pliocene			S, P, D, M	10Y 5/1 To 10Y 7/1; 5GY 2/1; 10Y 4/1; 10Y 5/1 To 10Y 7/1; 10Y 7/1; 10Y 5/1	NANNOFOSSIL OOZE WITH DIATOMS AND CLAY General Description: This core contains light gray (10Y 7/1) to gray (10Y 5/1) NANNOFOSSIL OOZE WITH DIATOMS AND CLAY. Color varies from dark gray (10Y 4/1) to greenish gray (5GY 5/1) throughout the core. The entire core is slightly mottled. Disseminated pyrite occurs both in thin horizons (Section 1) and filled oblical and horizontal burrows (Sections 3 and 4).



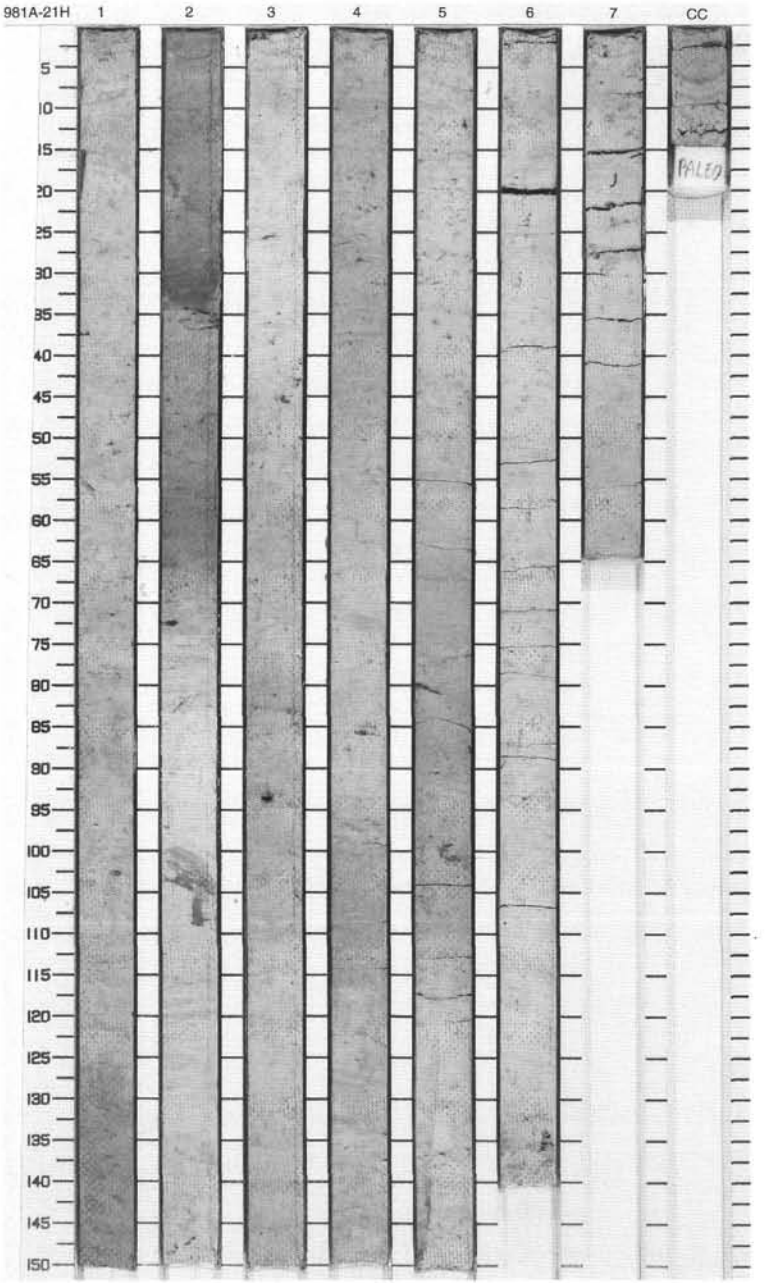
SITE 981 HOLE A CORE 20H CORED 177.5 - 187.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–7, CC	late Pliocene				10Y 5/1; 10Y 6/1	NANNOFOSSIL OOZE WITH CLAY General Description: This core contains gray (10Y 6/1) and (10Y 5/1) NANNOFOSSIL OOZE WITH CLAY. The entire core is slightly bioturbated. Disseminated pyrite occurs both in thin horizons and dispersed blebs. A color band is situated between 30 cm to 40 cm in Section 2. The sediment is coarser in Section 4 between 0 and 16 cm.

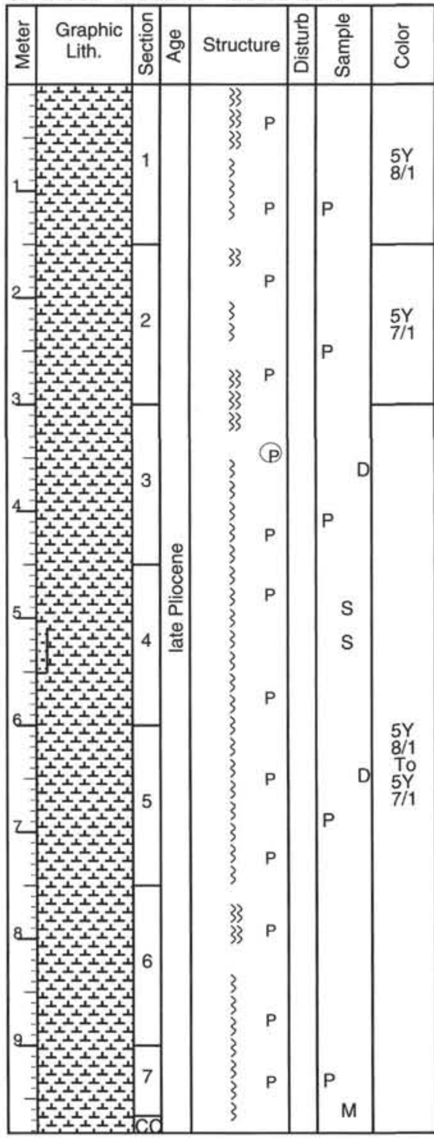


SITE 981 HOLE A CORE 21H CORED 187.0 - 196.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–7, CC	late Pliocene	F; P; P; P; P		P; S; P; D; P; P; D; P; P; S; M	10Y 6/1; 5GY 6/1; 10Y 6/1; 5GY 6/1; 10Y 6/1; 5GY 6/1	NANNOFOSSIL OOZE WITH CLAY General Description: The core contains gray (5GY 6/1) and (10Y 6/1) NANNOFOSSIL OOZE WITH CLAY. The entire core is slightly to moderately bioturbated. A vertical pyrite filled burrow is present at 100 cm in Section 2, and another one 28-cm-long occurs at 123 cm in Section 5. The light-color horizons are finer. Color changes are gradational. Some slight greenish tint occurs throughout the entire core but not as distinct layers.



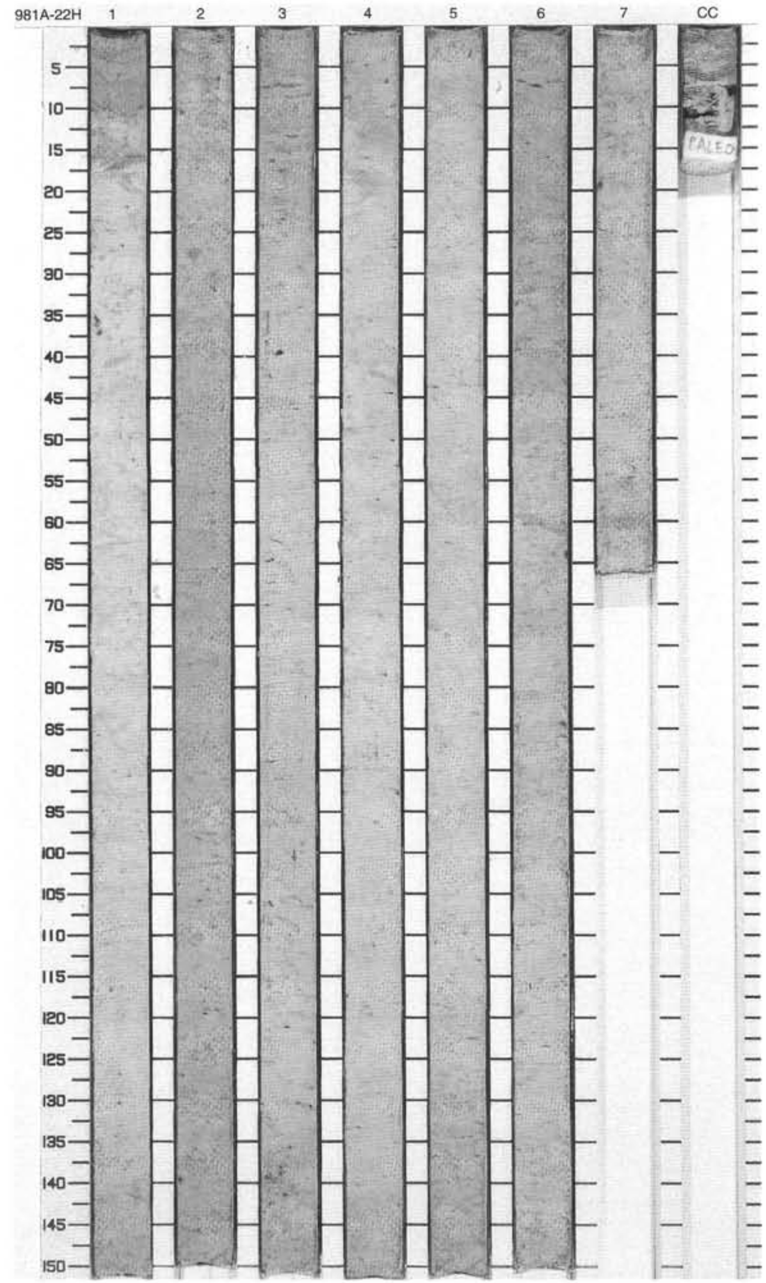
SITE 981 HOLE A CORE 22H CORED 196.5 - 206.0 mbsf



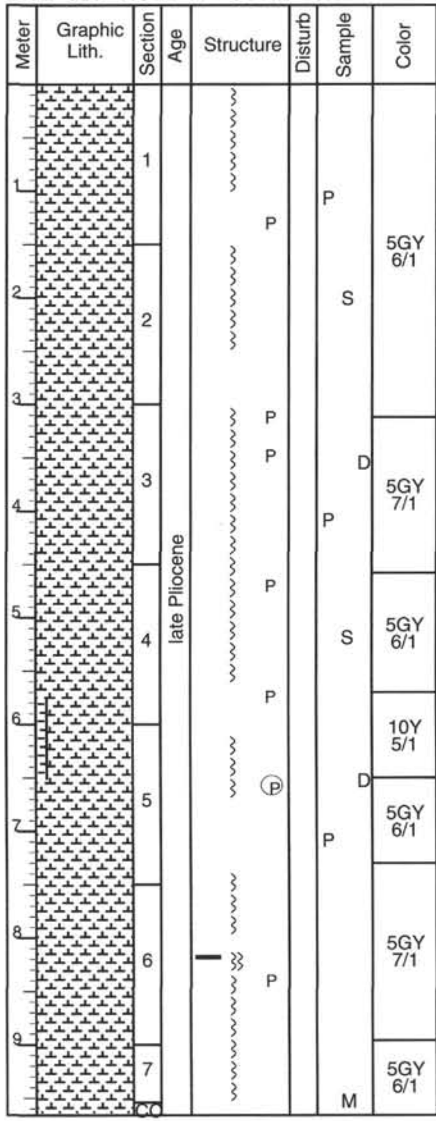
Description

NANNOFOSSIL OOZE

General Description:
This core contains light gray to white (5Y 7/1 to 5Y 8/1) NANNOFOSSIL OOZE. The color changes are gradational. The entire core is slightly bioturbated with moderate bioturbation at several layers. Pyrite is disseminated throughout the core, and a pyrite concretion occurs in Section 3, 40 cm. Clay content increases at Section 4, 50–100 cm.



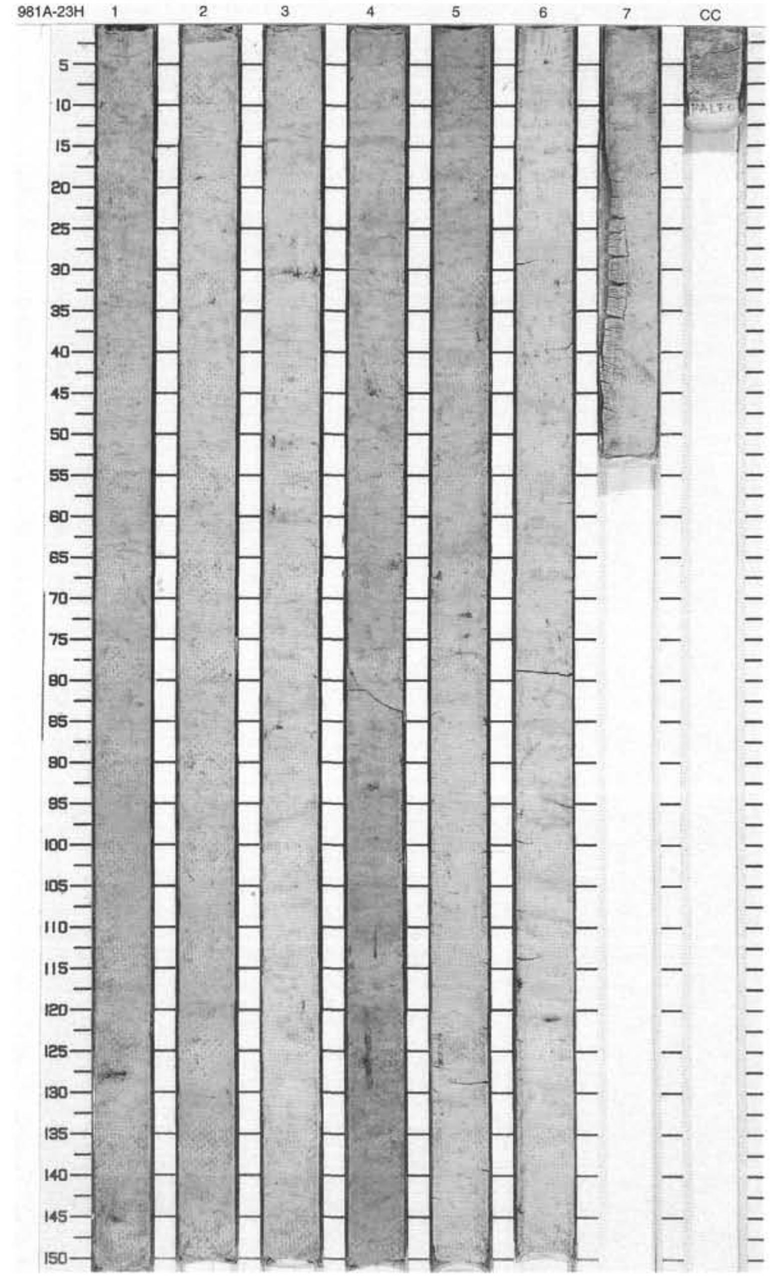
SITE 981 HOLE A CORE 23H CORED 206.0 - 215.5 mbsf



Description

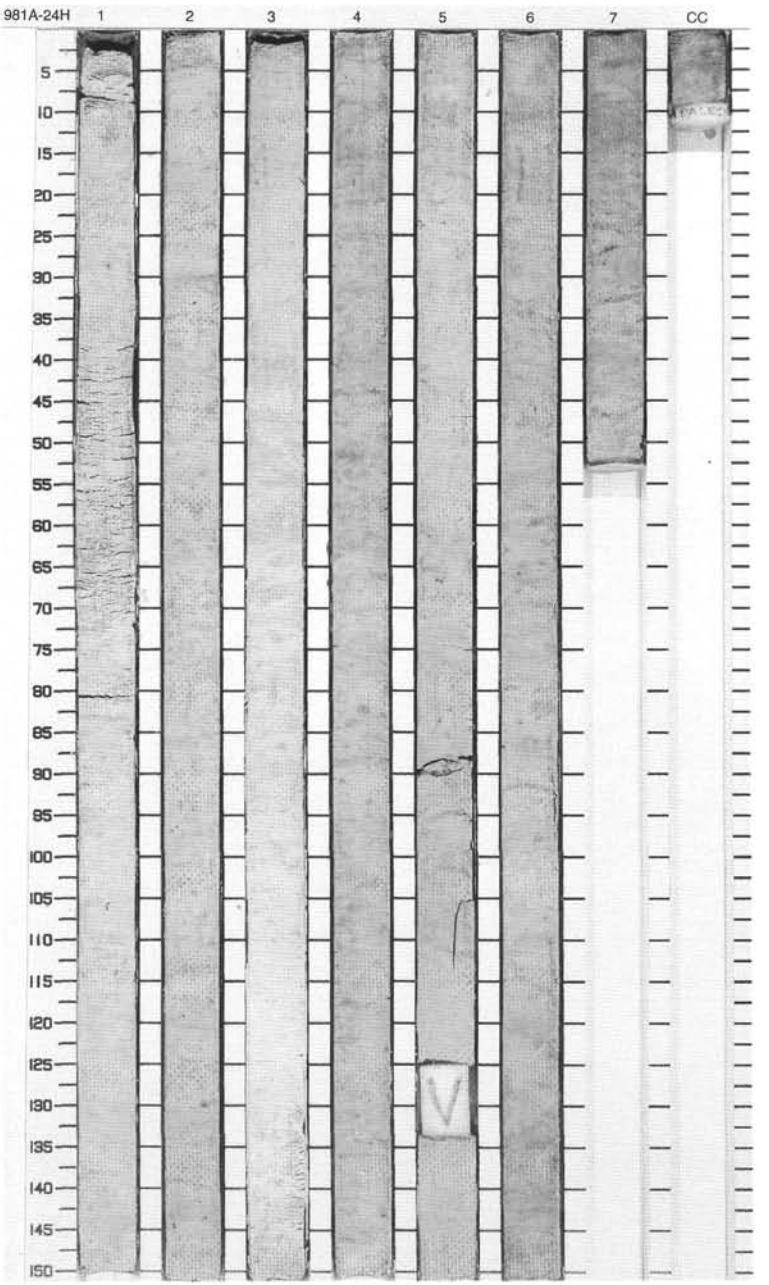
NANNOFOSSIL OOZE

General Description:
This core contains light greenish gray (5GY 7/1) to greenish gray (5GY 6/1) NANNOFOSSIL OOZE. The content of silty clay slightly increases in the interval from Section 4, 110 cm to Section 5, 45 cm. This core is slightly mottled throughout. Disseminated pyride occurs in both thin layers and burrows.

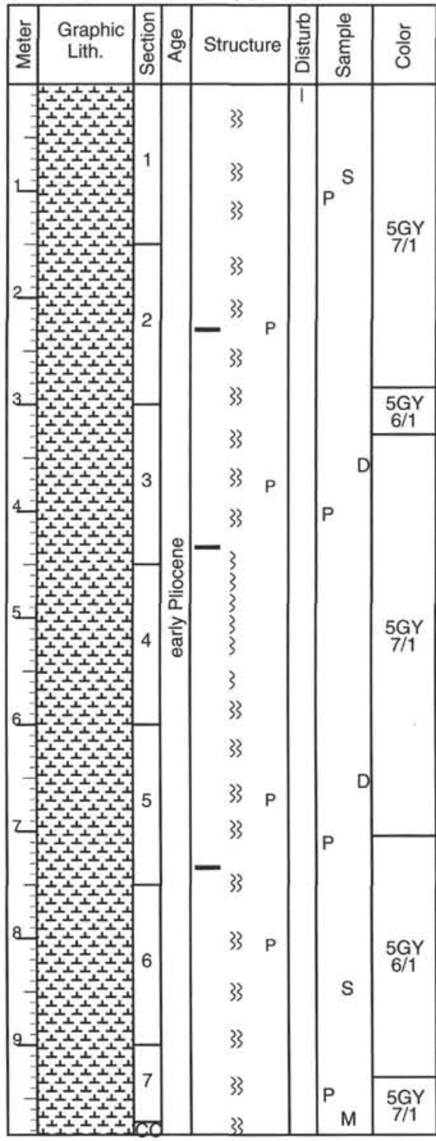


SITE 981 HOLE A CORE 24H CORED 215.5 - 225.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9	Void	1–7, CC	early Pliocene–late Pleistocene			P, S, D, M	5GY 6/1; 10Y 7/1; 5GY 6/1 To 5GY 5/1	NANNOFOSSIL OOZE General Description: This core contains geenish gray to light gray (5GY 5/1 to 10Y 7/1) NANNOFOSSIL OOZE. The sediment is soft and moist. Bioturbation occurs as burrow traces and subtle color mottling. Color changes are very gradational. Sulfides and small pods of silt and sand are scattered throughout. The lightest layer (Section 3, 115–135 cm) is very soft and slightly deformed. The uppermost meter of Section 1 is slightly to moderately deformed due to an imploded core liner.



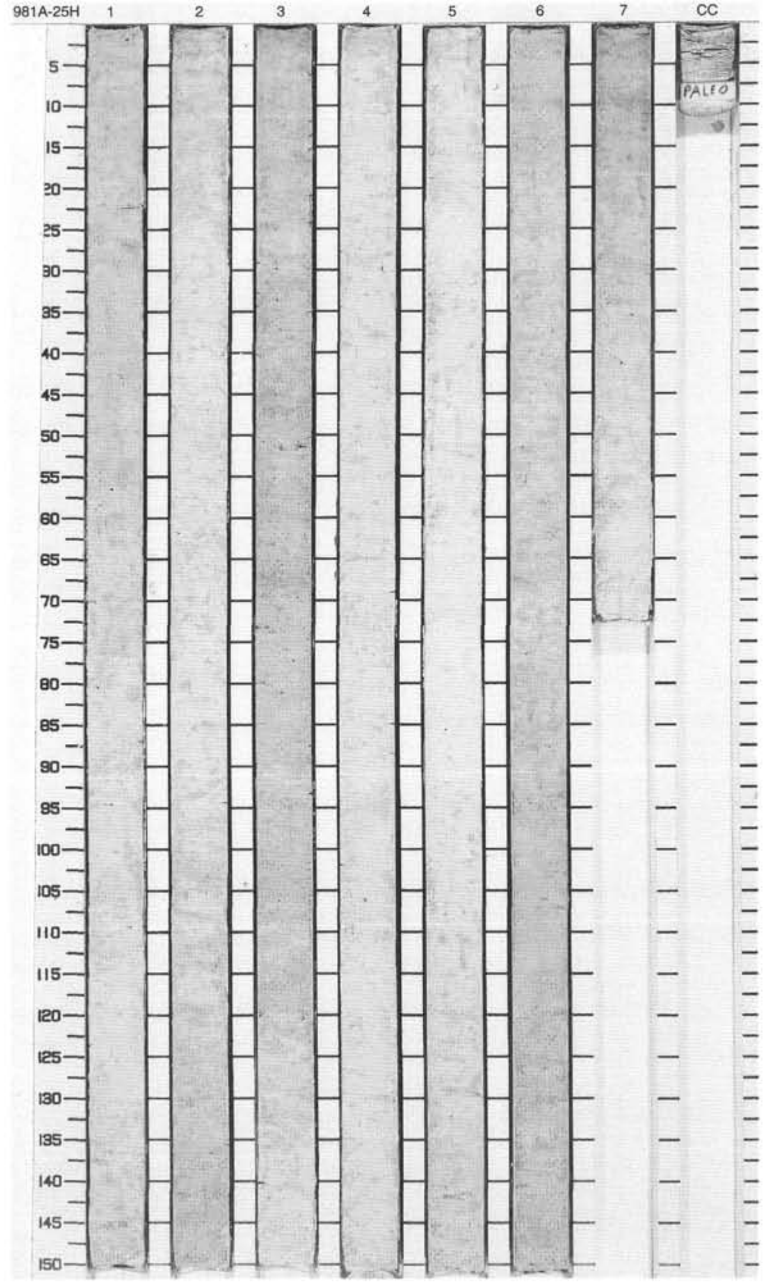
SITE 981 HOLE A CORE 25H CORED 225.0 - 234.5 mbsf



Description

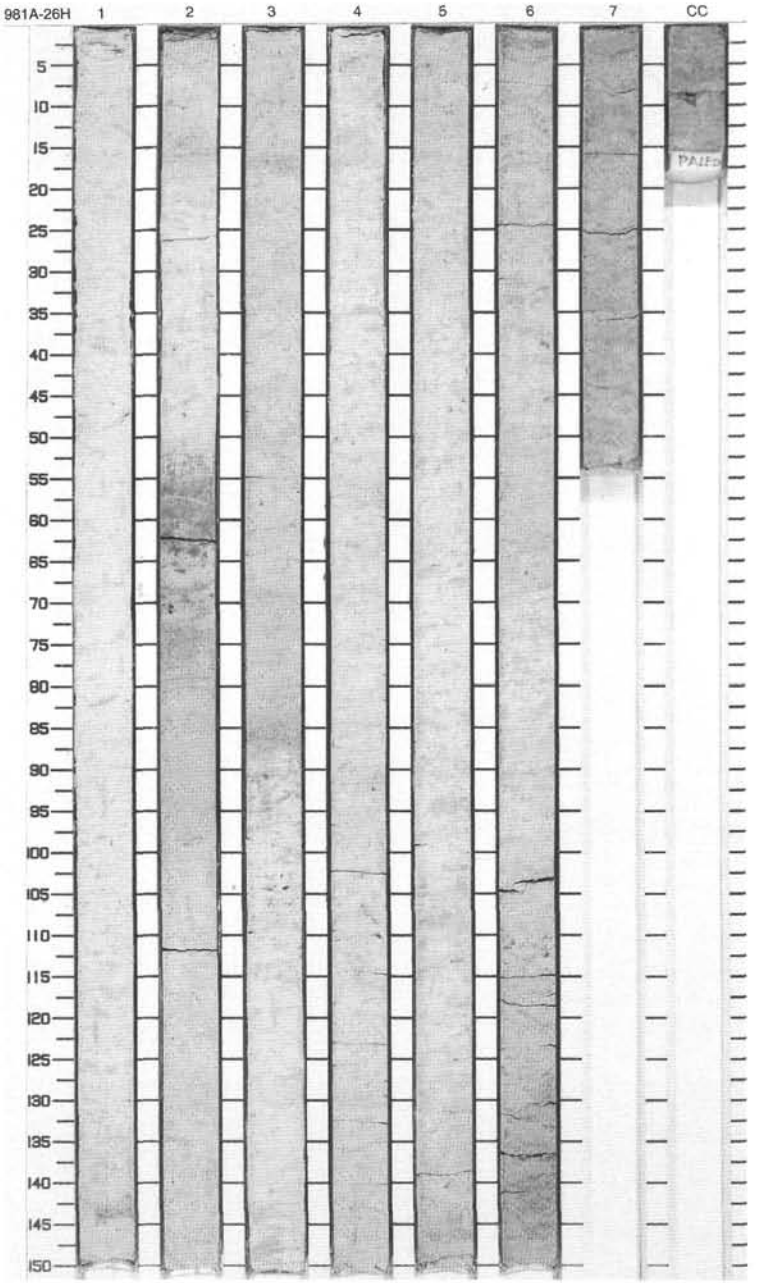
NANNOFOSSIL OOZE

General Description:
This core contains greenish gray to light greenish gray (5GY 6/1 to 5GY 7/1) NANNOFOSSIL OOZE. Foraminifers, sponge spicules, and clay are minor components. Bioturbation is moderate throughout, and slight in Section 4. Pyrite occurs in discrete concentrations as burrow fill, and is otherwise disseminated throughout the core.



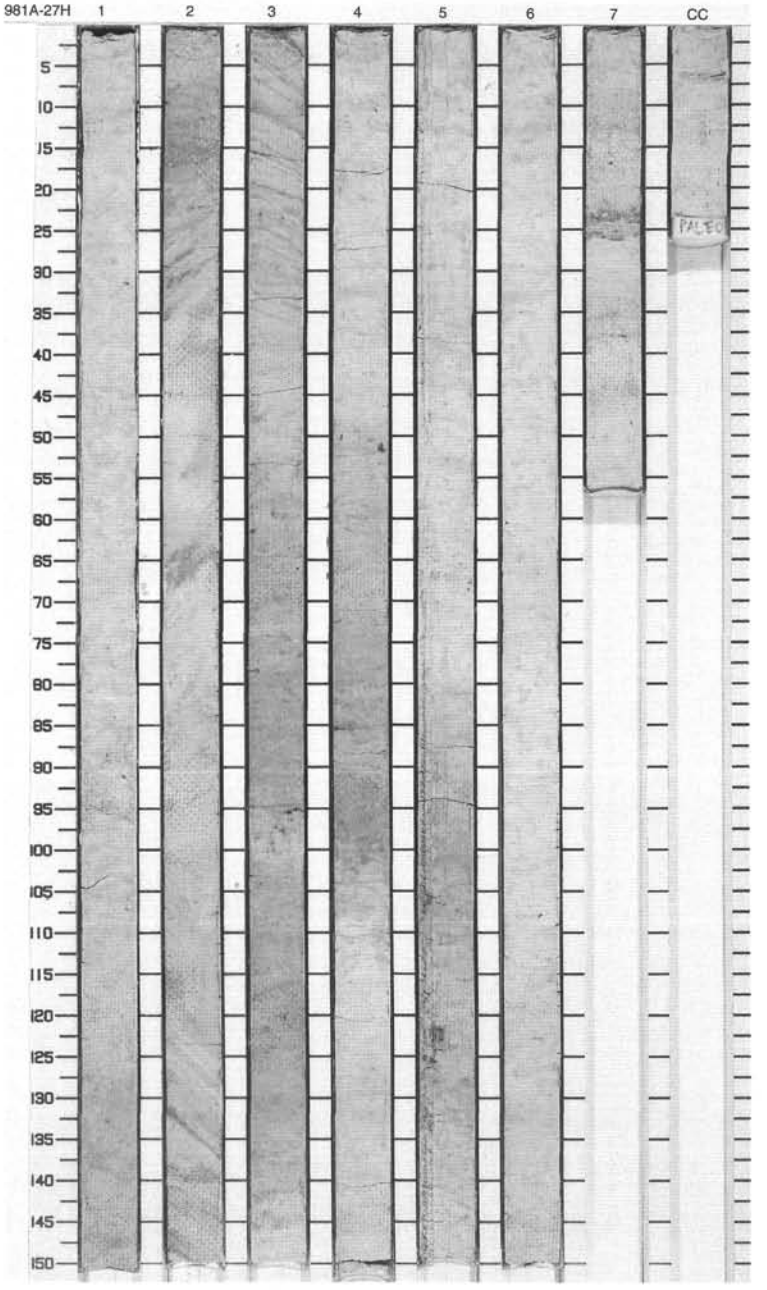
SITE 981 HOLE A CORE 26H CORED 234.5 - 244.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	early Pliocene			P	5GY 7/1	NANNOFOSSIL OOZE General Description: This core contains light greenish gray (5GY 7/1) to light gray (5GY 6/1) NANNOFOSSIL OOZE. The core is both slightly mottled and slightly bioturbated throughout except for the interval from Section 6, 115 cm to the bottom of the core. Thin greenish color bands with gradational contact are present at Section 2, 50–66 cm. Disseminated pyrite occurs in thin horizons at Sections 2 to 4.
		2		P		S	10Y 7/1	
		3		P P		D		
		4		P		P		
		5				D	5GY 7/1	
		6				P		
		7					5GY 6/1	
		CC				M		

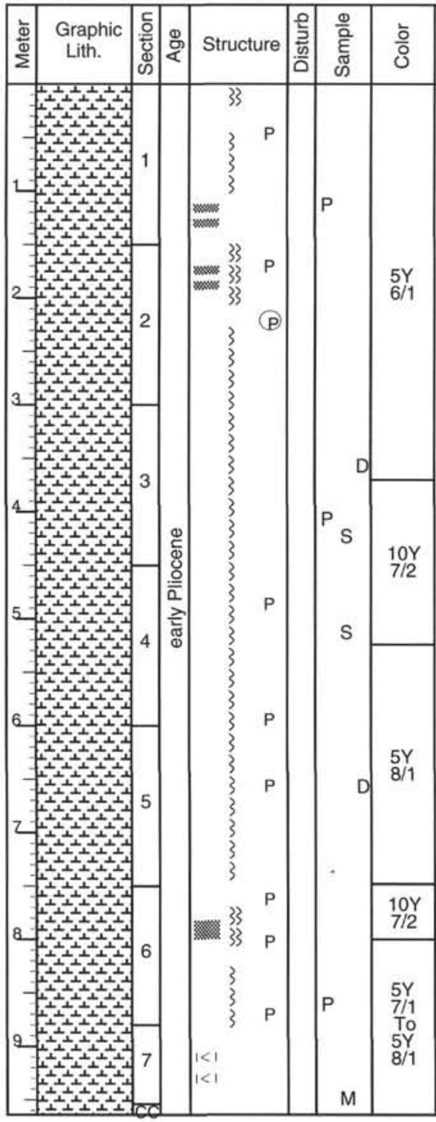


SITE 981 HOLE A CORE 27H CORED 244.0 - 253.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1, 2, 3, 4, 5, 6, 7, CC	early Pliocene		!	P; S D; P; S D; P; P; M	5GY 7/1 To 10Y 5/1; 10Y 5/1; 5GY 7/1	NANNOFOSSIL OOZE General Description: This core contains dark greenish gray to light greenish gray (10Y 5/1 to 5GY 7/1) NANNOFOSSIL OOZE. Foraminifers and sponge spicules are minor components of the sediment. Bioturbation is slight to moderate throughout. Inclined bedding in opposing directions occurs in Sections 2 and 3.



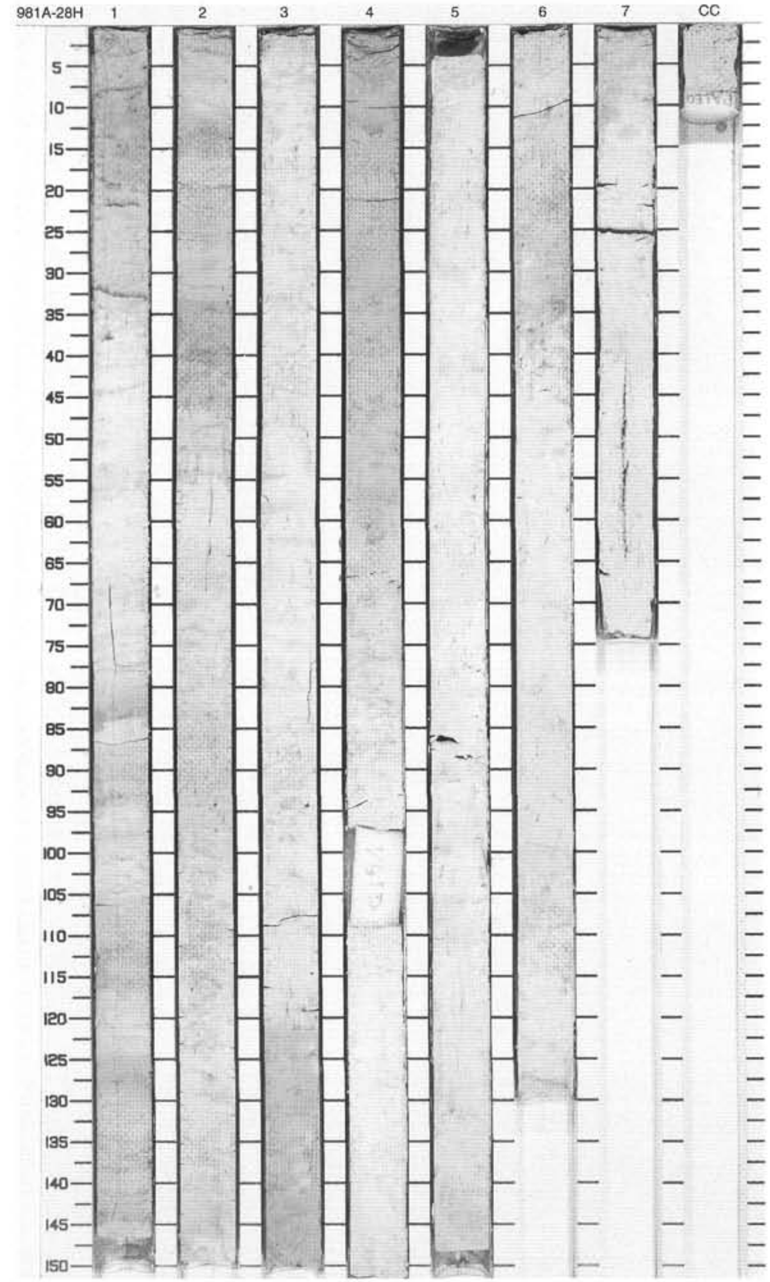
SITE 981 HOLE A CORE 28H CORED 253.5 - 263.0 mbsf



Description

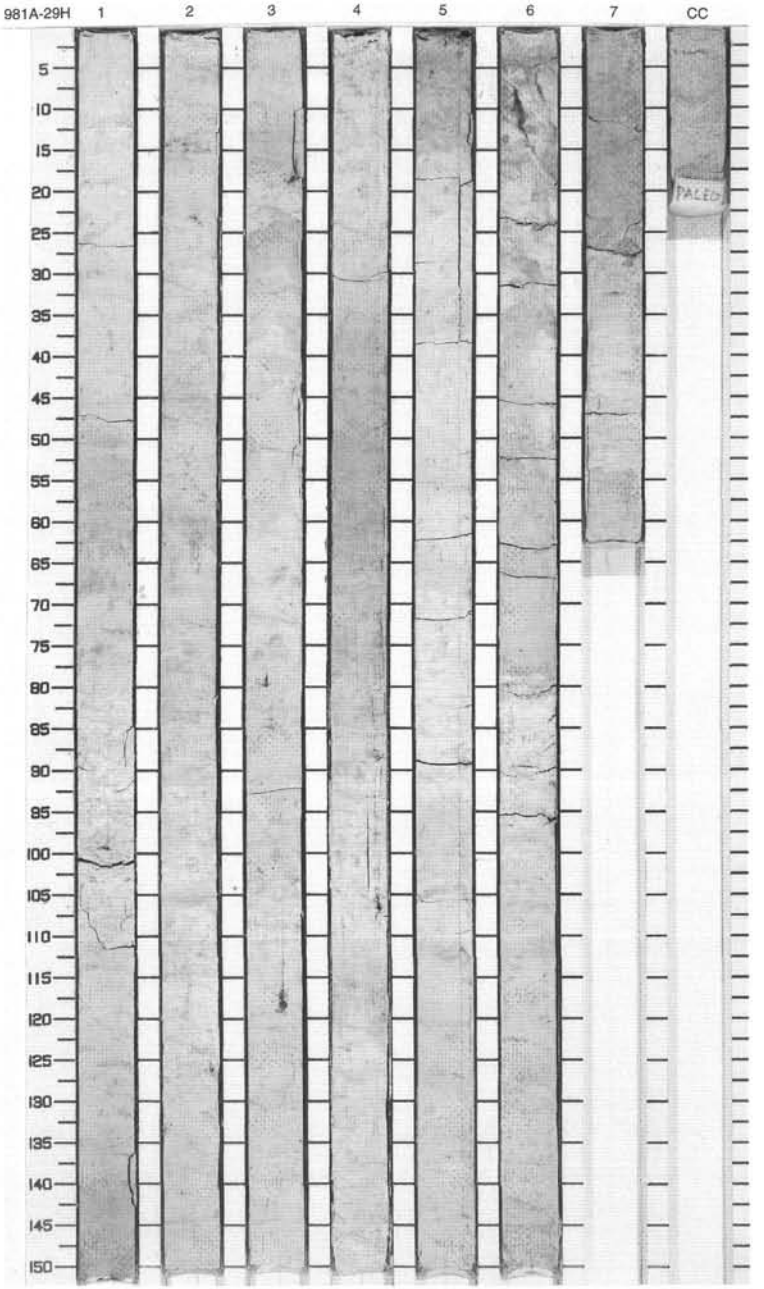
NANNOFOSSIL OOZE

General Description:
This core contains light gray (5Y 7/1) to greenish gray (10Y 7/2) NANNOFOSSIL OOZE. Color changes are gradational. Disseminated pyrite occurs throughout the core, and a pyrite concretion is present at Section 2, 70 cm. The sediment is void at Section 4, 90–110 cm.



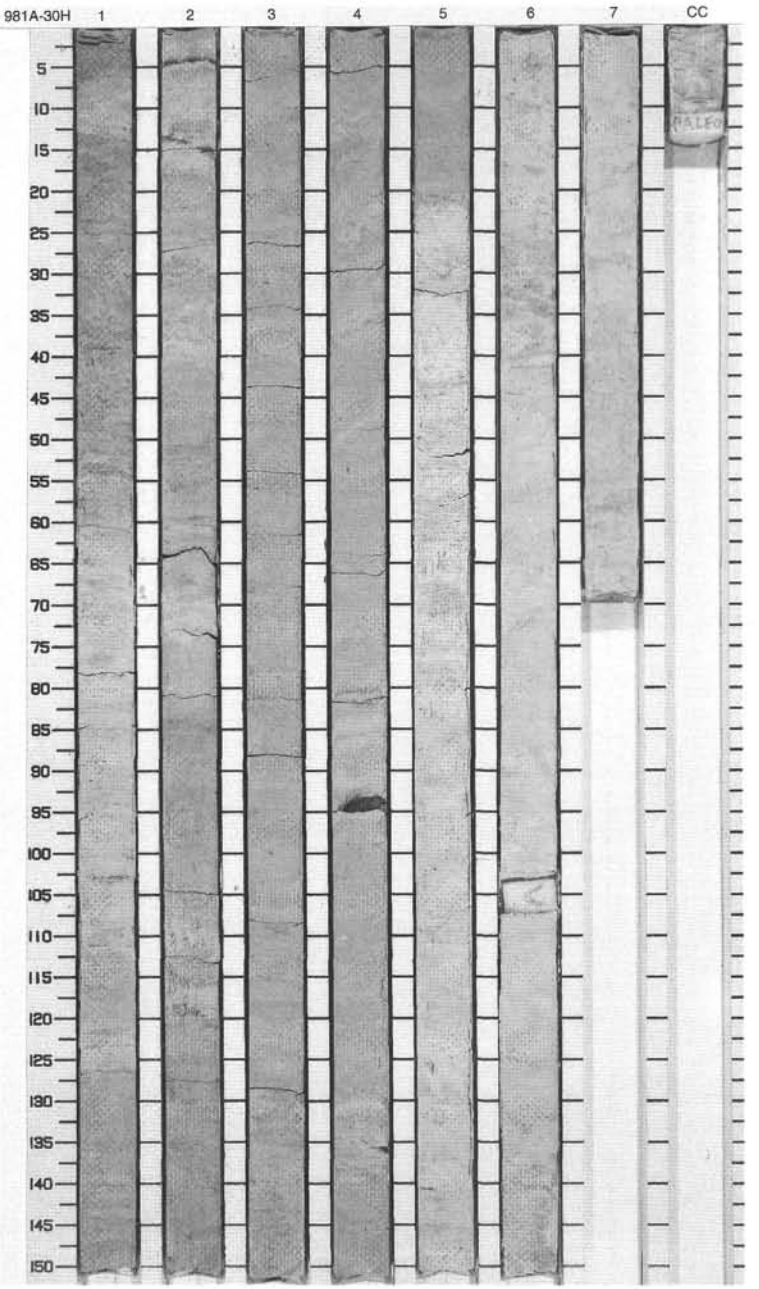
SITE 981 HOLE A CORE 29H CORED 263.0 - 272.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	early Pliocene	P P P		P	5GY 7/1	NANNOFOSSIL OOZE and NANNOFOSSIL OOZE WITH CLAY General Description: This core contains light greenish gray (5GY 7/1) NANNOFOSSIL OOZE. Some greenish gray (7.5GY 6/1) NANNOFOSSIL OOZE WITH CLAY is interbedded. The entire core is faintly mottled throughout. A number of very faint, thin disseminated pyrite bands are found in Sections 1 to 5. Small black disseminated blebs of pyrite are dispersed throughout core. Pyritized burrows occur in Section 3. The upper part of Section 6 shows faint wavy irregular color changes with one vertical irregular disseminated pyrite stringer.
		2		P				
		3		(P)		S D P		
		4		(P) P				
		5		P		D P	7.5GY 6/1 5GY 7/1	
		6		P			7.5GY 6/1 5GY 7/1	
		7				S P	7.5GY 6/1	
		CC				M	5GY 7/1	

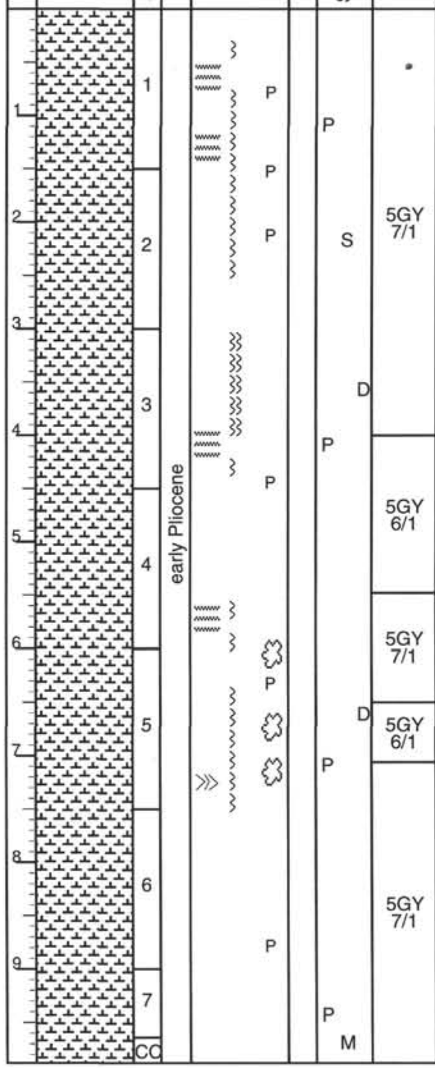


SITE 981 HOLE A CORE 30H CORED 272.5 - 282.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	early Pliocene			S	5GY 6/1	NANNOFOSSIL OOZE General Description: This core contains greenish gray (5GY 6/1) and light greenish gray (7.5 GY 7/1) NANNOFOSSIL OOZE. The entire core is firm and homogeneous. Some layers of disseminated pyrite occur in Sections 2 and 5. The lower part of Section 3 shows a faint color banding. There is a void in Section 6 between 105 and 109 cm.
						P	7.5GY 7/1	
2		2		P P				
3		3				D P	5GY 6/1	
4		4		P				
5		5				D S P	7.5GY 7/1	
6	Void	6						
7		7				P M		
8		CC						



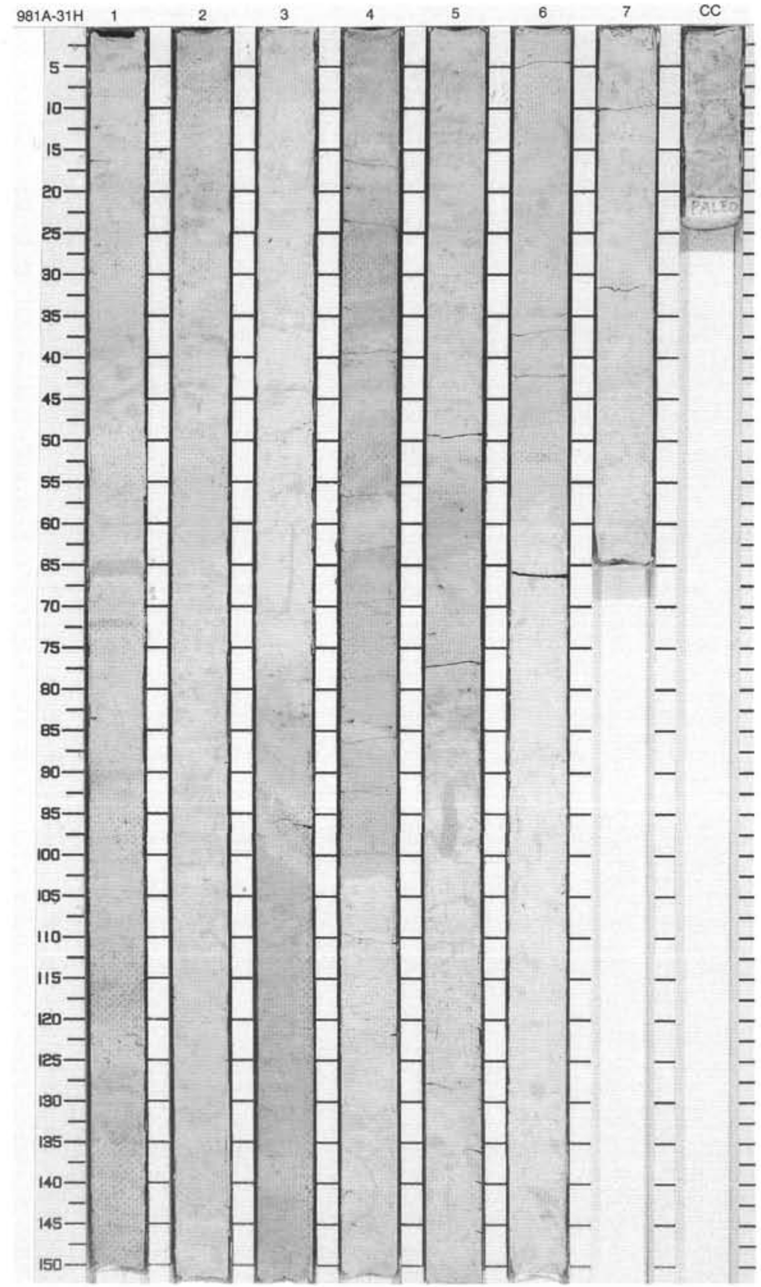
SITE 981 HOLE A CORE 31H CORED 282.0 - 291.5 mbsf



Description

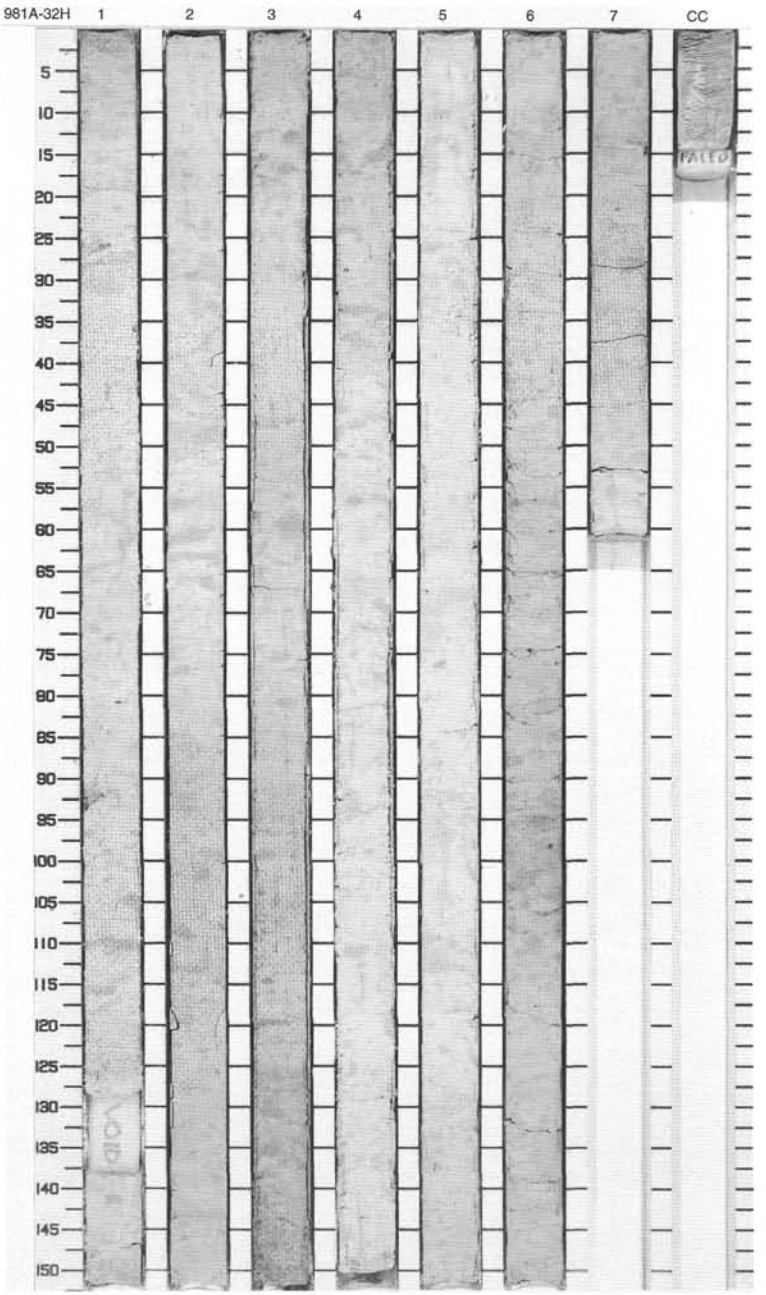
NANNOFOSSIL OOZE

General Description:
This core contains light greenish gray (5GY 7/1) and greenish gray (5GY 6/1) NANNOFOSSIL OOZE. The sediment is firm and homogeneous. Disseminated pyrite occurs both in thin dark color horizons and in blebs. Color changes are gradational but there is one sharp color contact in Section 4. A vertical burrow is present in Section 5.



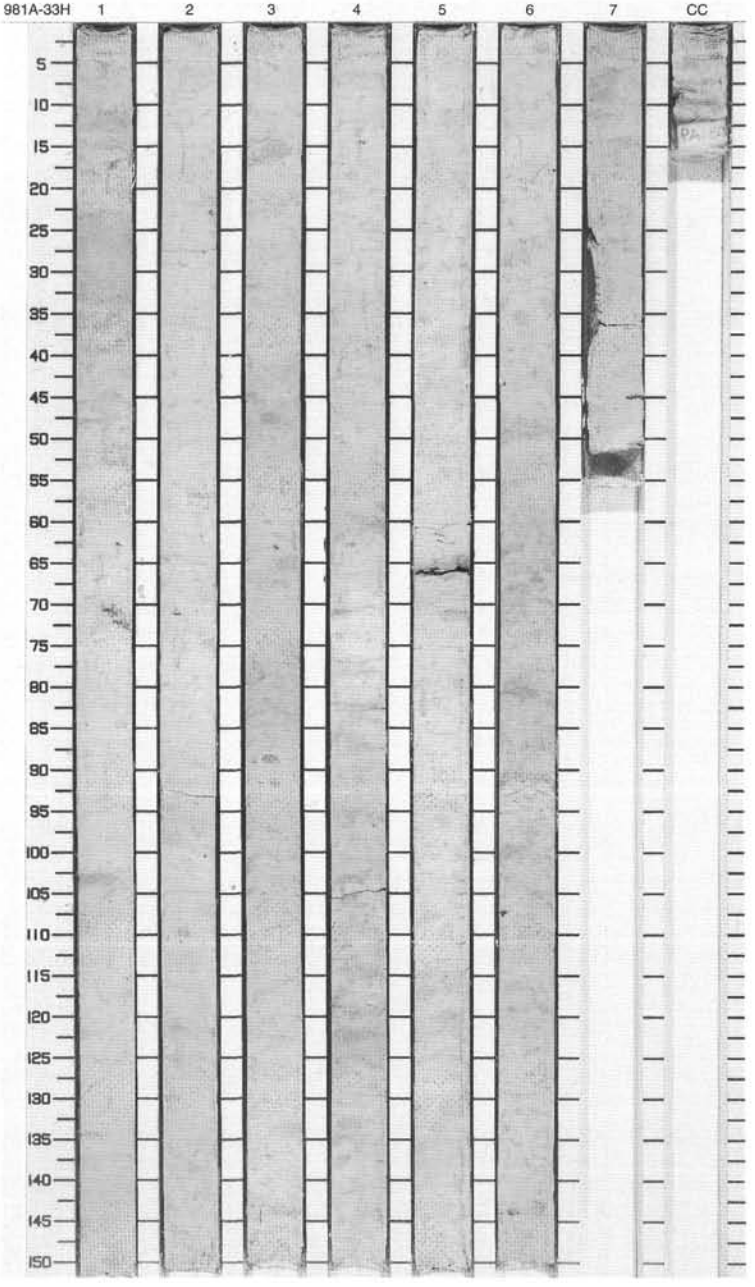
SITE 981 HOLE A CORE 32H CORED 291.5 - 301.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	Void	1	early Pliocene	P		P	5GY 6/1	NANNOFOSSIL OOZE General Description: This core contains light greenish gray (5GY 7/1) and greenish gray (5GY 6/1) NANNOFOSSIL OOZE. The entire core is homogeneous, firm, and color mottled. Some disseminated pyrite occurs both in thin horizons and small dispersed blebs. There is a void between 129 and 138 cm in Section 1.
2		2		P				
3		3		P		D		
4				P		P		
5		4				S	5GY 7/1	
6		5				D		
7				P		P		
8		6		P				
9		7				P		
		CC				M		



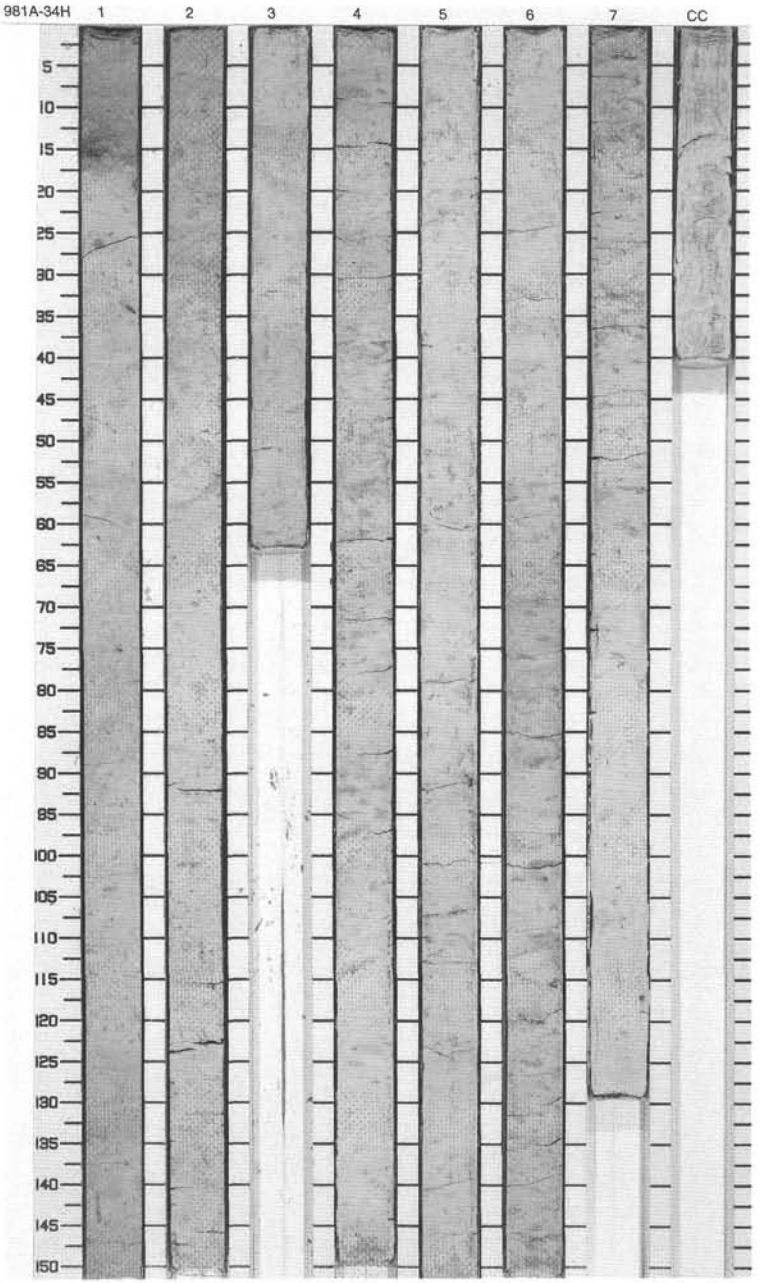
SITE 981 HOLE A CORE 33H CORED 301.0 - 310.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–7, CC	early Pliocene			P, S, M, D	5GY 7/1; 5GY 6/1; 5GY 7/1; 5GY 6/1	NANNOFOSSIL OOZE General Description: This core contains light greenish gray (5GY 7/1) and greenish gray (5GY 6/1) NANNOFOSSIL OOZE. The entire core is homogeneous, firm, and color mottled. Some disseminated pyrite occurs both in thin horizons and small dispersed blebs.



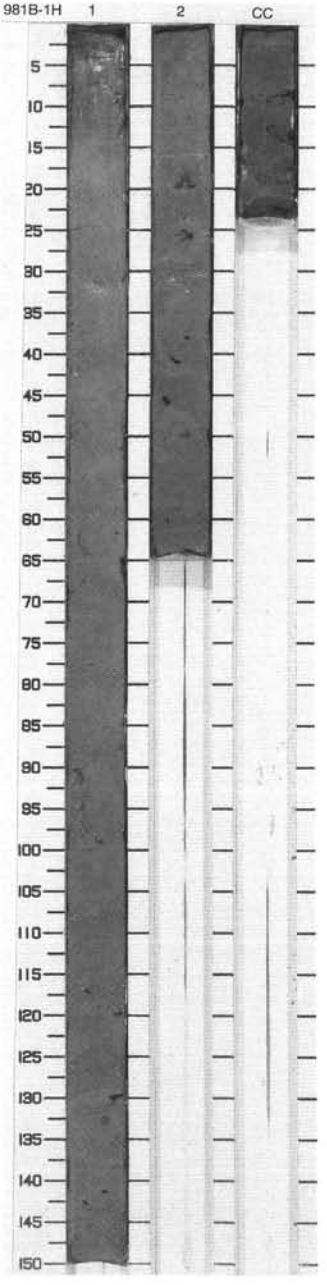
SITE 981 HOLE A CORE 34H CORED 310.5 - 320.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	early Pliocene	P, P		P	5GY 5/1, 5GY 6/1	NANNOFOSSIL OOZE General Description: This core contains light greenish gray (5GY 7/1) and greenish gray (5GY 6/1) NANNOFOSSIL OOZE. The entire core is homogeneous, firm, and color mottled. Some disseminated pyrite occurs both in thin horizons and small dispersed blebs. Section 3 is shorter because the liner is partly crushed.
2		2		P			5GY 7/1	
3		3		P		P	5GY 6/1	
4		4		P		S		
5		5		P		D P	5GY 7/1	
6		6		P			5GY 6/1	
7		7		P		P	5GY 7/1	
8		CC				M		



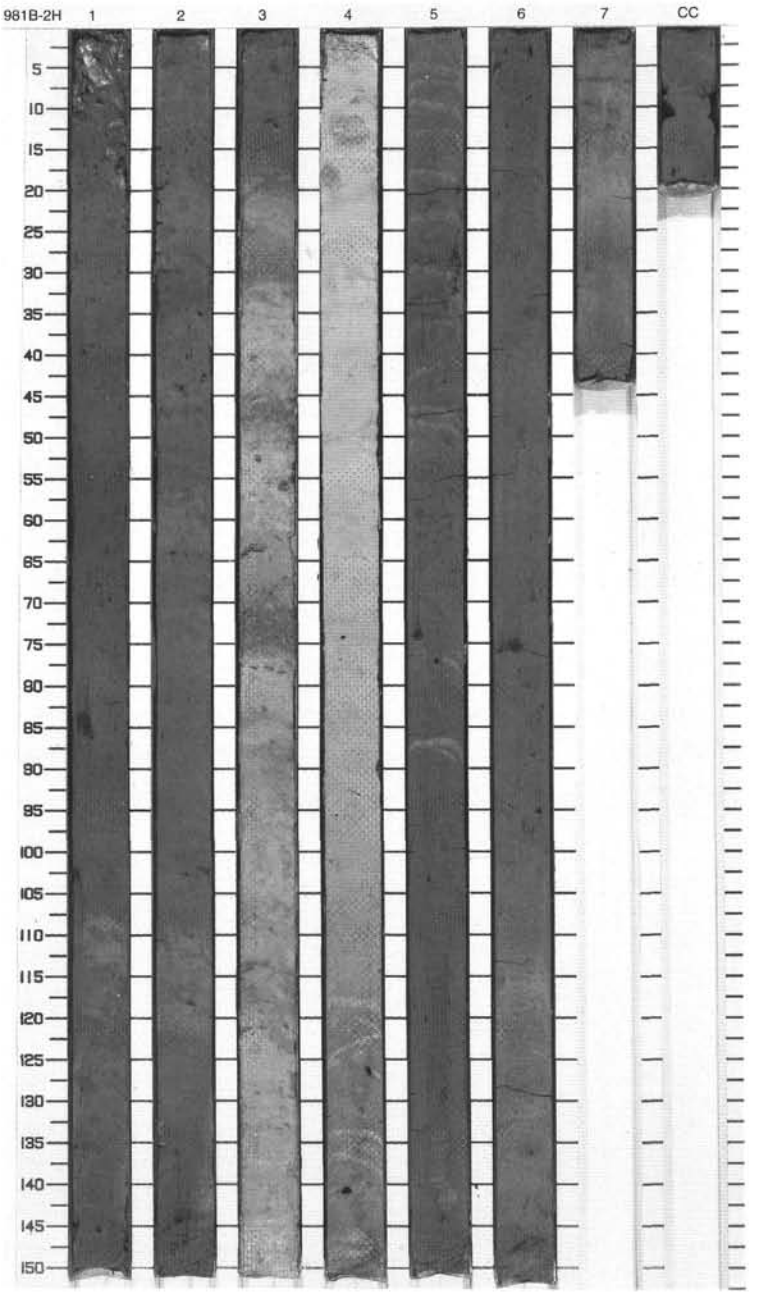
SITE 981 HOLE B CORE 1H CORED 0.0 - 2.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1 2		1 2 CC	Pleistocene		○	M	5Y 5/1	SILTY CLAY WITH NANNOFOSSILS General Description: This core contains soft, homogeneous gray (5Y 5/1) SILTY CLAY WITH NANNOFOSSILS. Coarse fraction increases at Section 2, 60 cm to the bottom of the core. Halo burrows are present throughout. The uppermost part of the core is soupy.



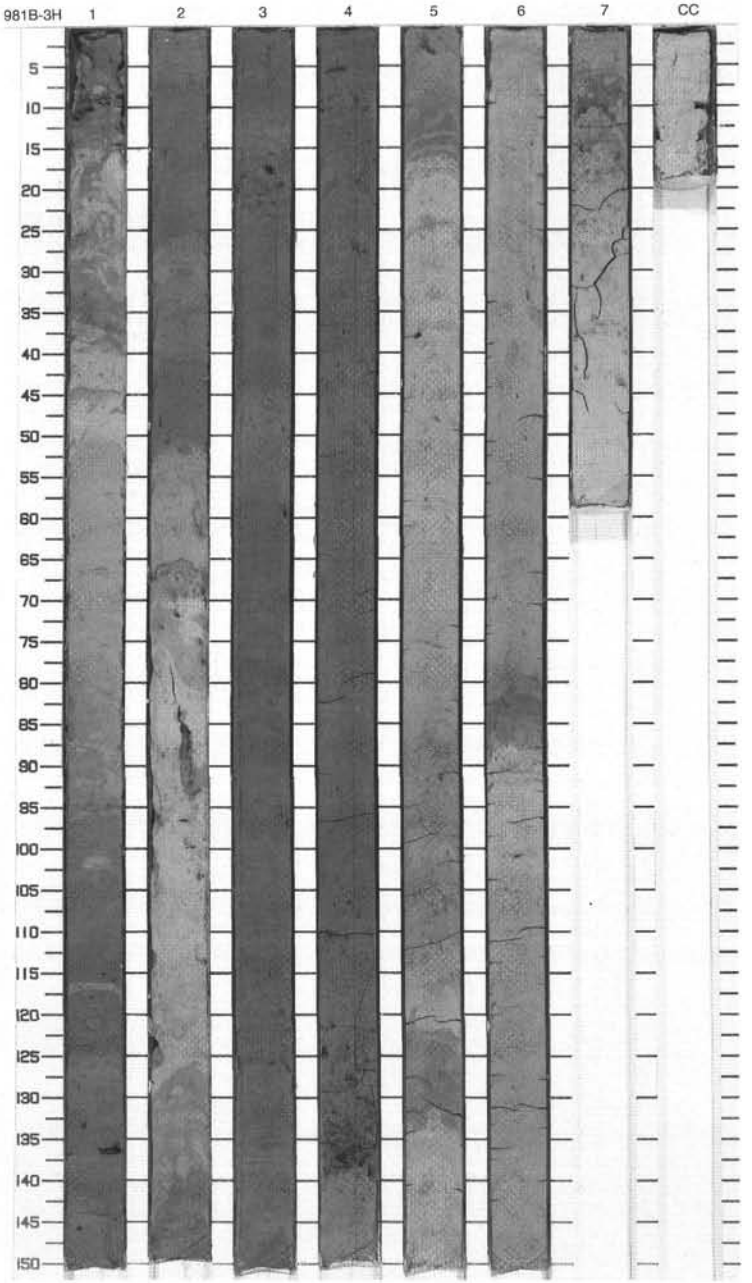
SITE 981 HOLE B CORE 2H CORED 2.4 - 11.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–6, CC	Pleistocene	P	○○○	M	5Y 4/1 To 5Y 5/1; 5Y 6/1; 5Y 5/1; 5Y 4/1	SILTY CLAY WITH NANNOFOSSILS and NANNOFOSSIL OOZE WITH CLAY General Description: This core contains dark gray (5Y 4/1) to gray (5Y 5/1) SILTY CLAY WITH NANNOFOSSIL and gray (5Y 6/1) NANNOFOSSIL OOZE WITH CLAY. The sediment is soft and homogeneous. Light horizontal burrows are present in Section 5. Pyrite is disseminated throughout the entire core. Some greenish and blackish layers occur in several sections.



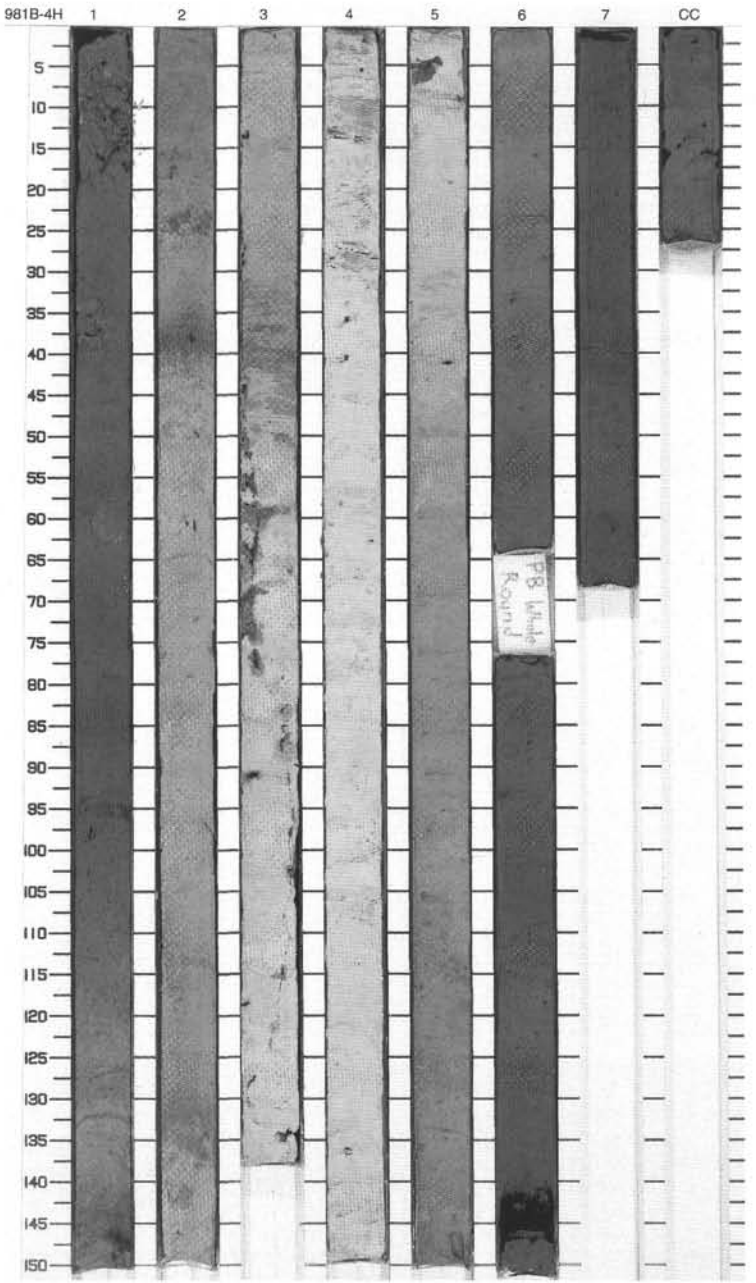
SITE 981 HOLE B CORE 3H CORED 11.9 - 21.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene	⋙	WW		5Y 6/1 To 5Y 4/1	NANNOFOSSIL OOZE and CLAYEY NANNOFOSSIL MIXED SEDIMENT General Description: This core contains dark gray (5Y 4/1) to gray (5Y 5/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT and gray (5Y 6/1) NANNOFOSSIL OOZE. The core is moist, firm, and homogeneous. Discrete *Zoophycus* traces are present in Sections 1 and 5. A darker layer of disseminated pyrite is situated at 138 cm in Section 5.
		2		≀≀≀			5Y 6/1	
		3					5Y 4/1	
		4						
		5		≀≀≀≀≀≀≀ P			5Y 5/1	
		6					5Y 6/1	
		7					5Y 5/1 To 5Y 6/1	
		CC						



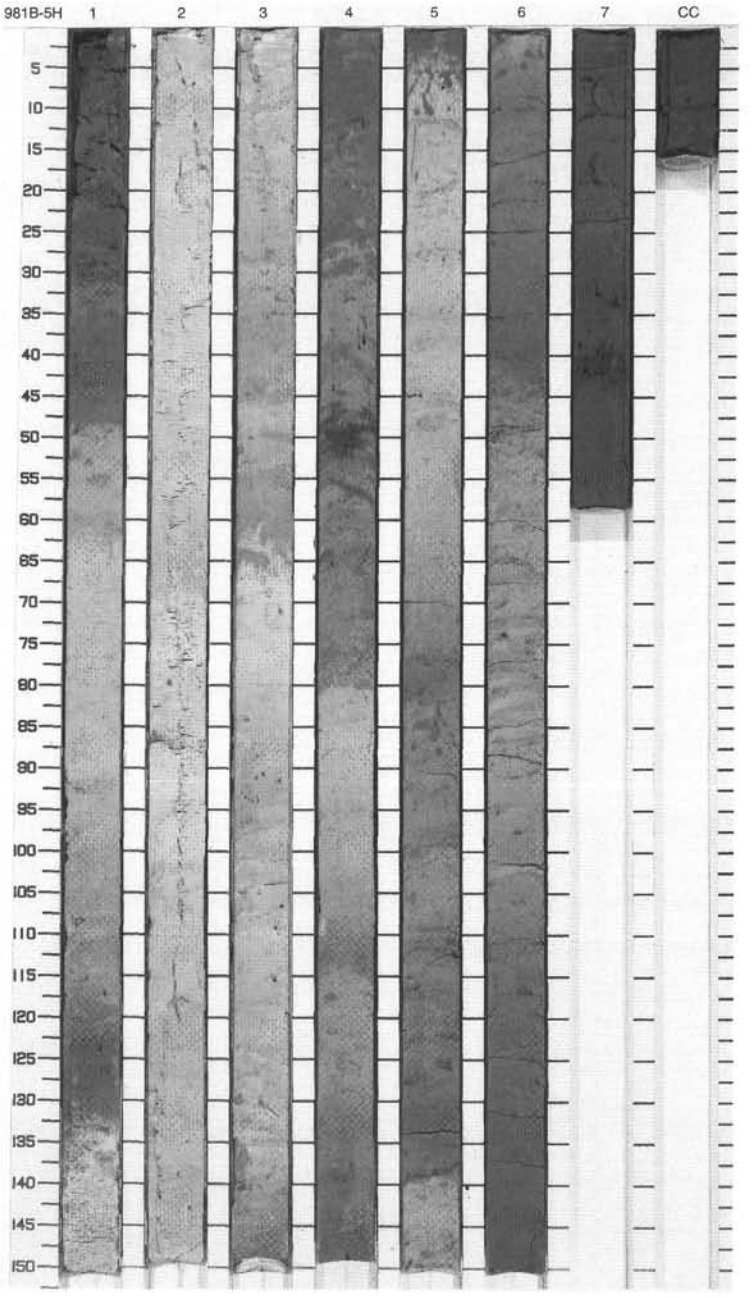
SITE 981 HOLE B CORE 4H CORED 21.4 - 30.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene		○○○		5Y 4/1	NANNOFOSSIL OOZE and CLAYEY NANNOFOSSIL MIXED SEDIMENT General Description: This core contains gray (5Y 6/1) to dark gray (5Y 4/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT interbedded with light gray (5Y 7/1) NANNOFOSSIL OOZE. Sediment is moist in Sections 1 and 3. Top of the core is soupy due to coring disturbance. Faint greenish layers are sparsely distributed throughout the entire core. Disseminated pyrite occurs both in thin black layers and small blebs. A dark layer is situated between 142 and 147 cm in Section 6.
		2		P P			5Y 6/1	
							5Y 7/1	
		3					5Y 6/1	
				P		I		
		4		P			5Y 7/1	
		5		P			5Y 6/1	
		6		P P		W	5Y 4/1	
		7						
		CC				M		



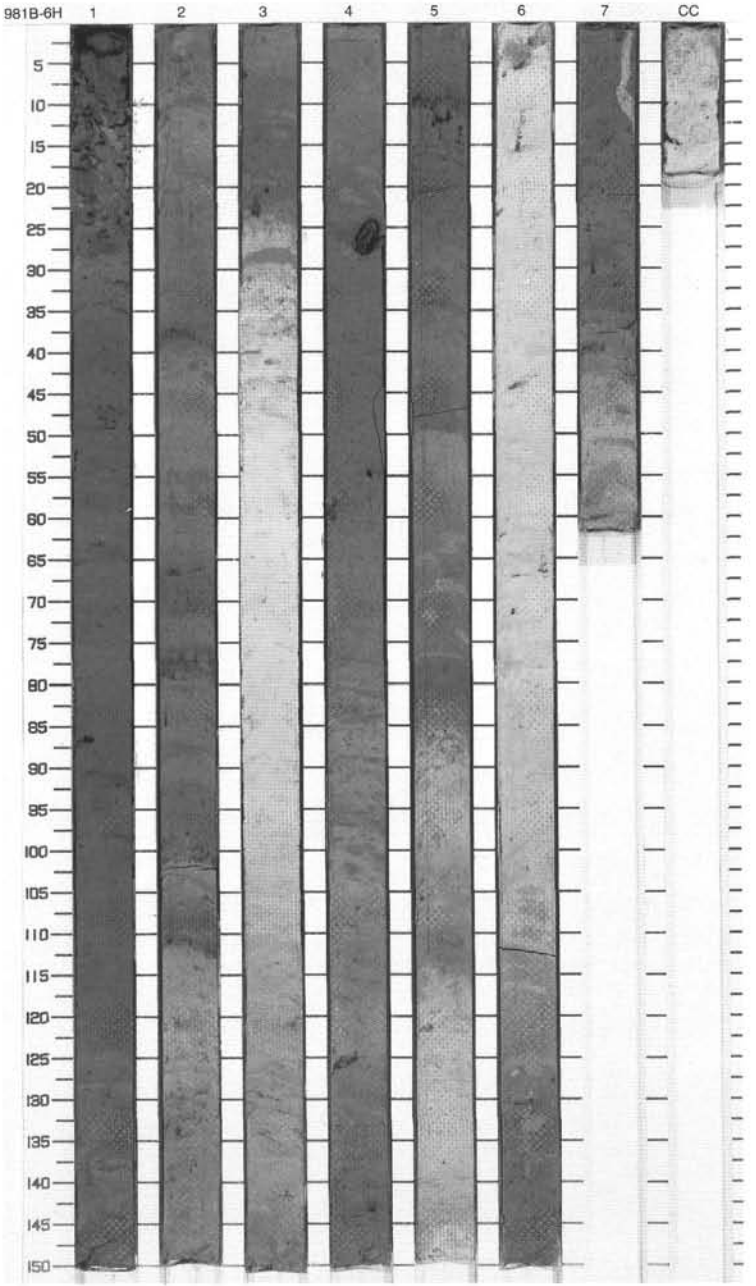
SITE 981 HOLE B CORE 5H CORED 30.9 - 40.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene		V O		5Y 4/1	NANNOFOSSIL OOZE and CLAYEY NANNOFOSSIL MIXED SEDIMENT General Description: The core contains gray (5Y 5/1) to dark gray (5Y 4/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT and light gray (5Y 7/1) NANNOFOSSIL OOZE. Top of the core is soupy due to coring disturbance. The core is slightly bioturbated and color mottled. Color changes are gradational. Faint greenish layers are dispersed throughout the entire core. Thick black layers with gradational contact are present in Sections 4 and 7.
							5Y 5/1	
		2		P			5Y 7/1	
				P				
		3					5Y 5/1	
				P			5Y 7/1	
							5Y 4/1	
		4					5Y 5/1	
				P			5Y 7/1	
							5Y 4/1	
		5					5Y 5/1	
							5Y 7/1 To 5Y 5/1	
		6		P				
		7				M	5Y 7/1 To 5Y 4/1	
		CC						



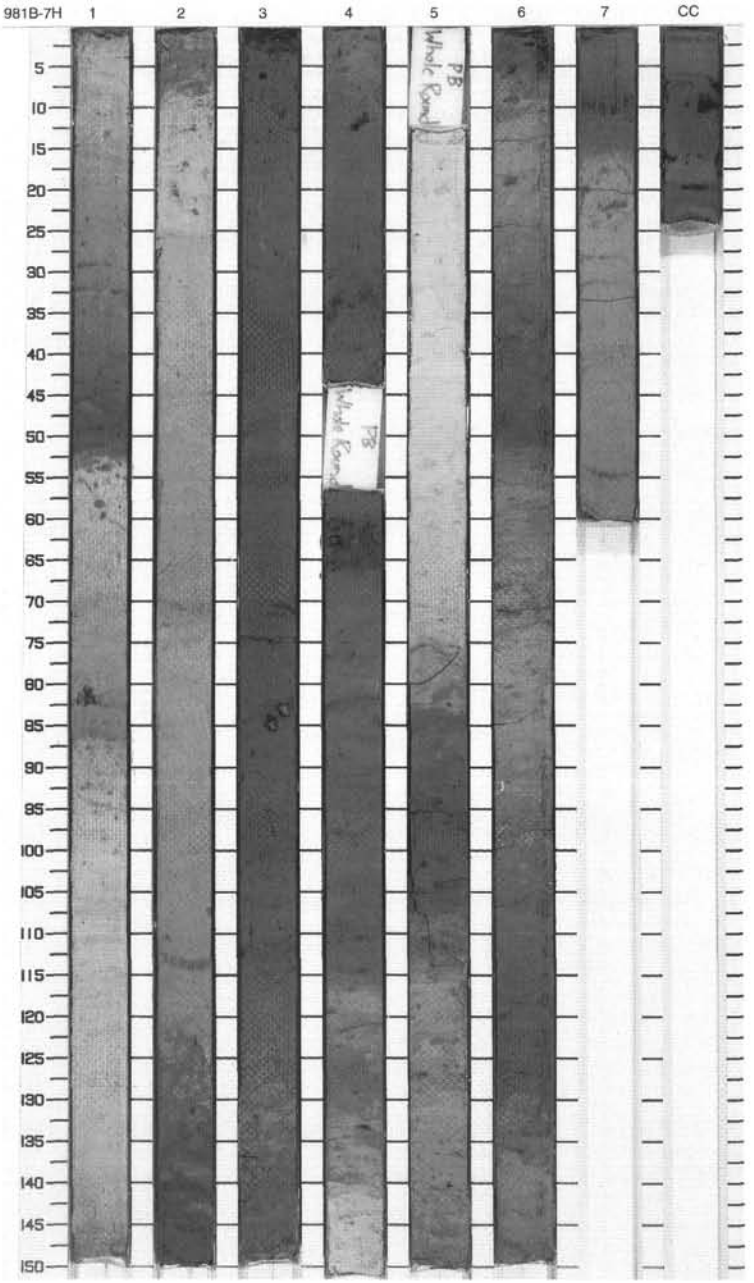
SITE 981 HOLE B CORE 6H CORED 40.4 - 49.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene		○○○		5Y 4/1	NANNOFOSSIL OOZE and CLAYEY NANNOFOSSIL MIXED SEDIMENT General Description: This core contains light gray (5Y 7/1) NANNOFOSSIL OOZE with gray (5Y 5/1) to dark gray (5Y 4/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT. The core is slighty biturbated. Faint greenish layers and disseminated pyrite are dispersed throughout the entire core. A 4-cm-long dropstone (gneiss) is present at 25 cm in Section 4. A pyrite nodule is present in Section 1 at 86 cm.
				Ⓟ				
		2		P			5Y 5/1	
							5Y 7/1	
		3					5Y 7/1 To 5Y 5/1	
		4		◇			5Y 4/1	
		5		P			5Y 5/1	
		6					5Y 7/1	
		7		P			5Y 4/1 To 5Y 5/1	
		CC				M		



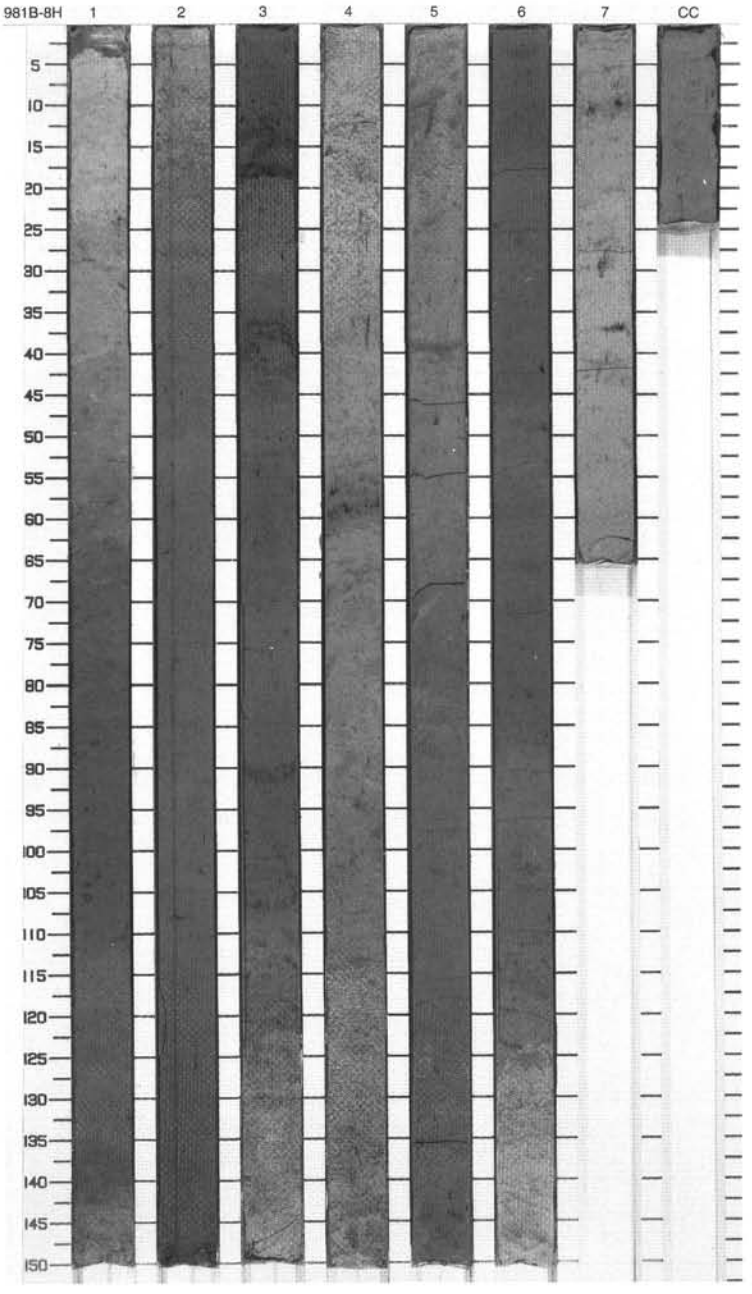
SITE 981 HOLE B CORE 7H CORED 49.9 - 59.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene				5Y 5/1	CLAYEY NANNOFOSSIL MIXED SEDIMENT and NANNOFOSSIL OOZE WITH CLAY General Description: This core contains gray (5Y 5/1) and dark gray (5Y 4/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT alternating with (5Y 7/1) NANNOFOSSIL OOZE WITH CLAY. A dark greenish gray layer (5G 4/1) of SILTY CLAYEY MIXED SEDIMENT is situated between 60 and 65 cm in Section 4 and a greenish gray (5Y 5/1) CLAYEY FORAMINIFERAL MIXED SEDIMENT occurs between 130 and 145 cm in Section 3. Three black basaltic dropstones (ranging from 0.5 to 1.1 cm) and one sandstone dropstone are situated in Section 3, 82 cm. A 0.8 cm basaltic dropstone is present at 64 cm in Section 4. Faint greenish layers and disseminated pyrite are present throughout the entire core.
							5Y 7/1 To 5Y 5/1	
		2		P			5Y 7/1	
							5Y 4/1	
		3		P			5G 5/1	
							5Y 4/1 To 5Y 5/1	
		4		P			5Y 7/1	
		5					5Y 4/1	
				P			5Y 7/1 To 5Y 5/1	
		6		P			5Y 7/1	
		7				M	5Y 4/1 To 5Y 5/1	
		CC						



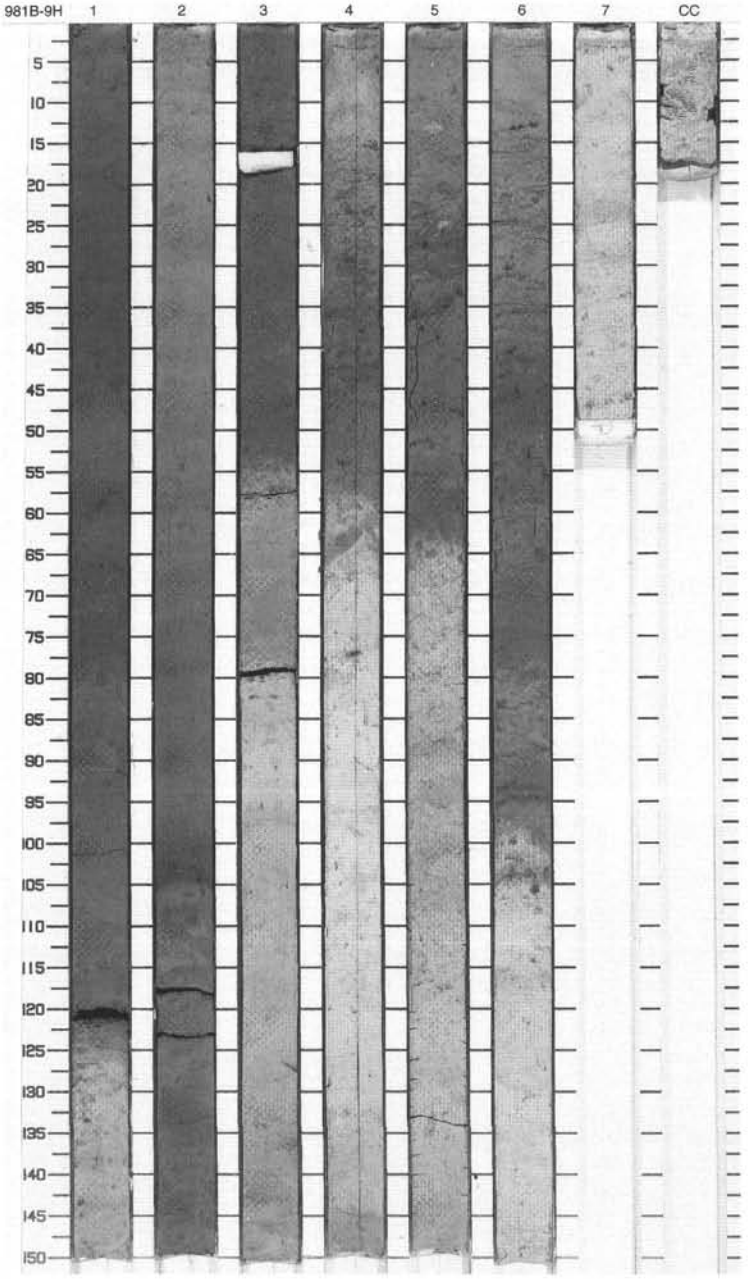
SITE 981 HOLE B CORE 8H CORED 59.4 - 68.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene				5Y 6/1	SILTY CLAYEY MIXED SEDIMENT and NANNOFOSSIL OOZE General Description: This core contains gray (5Y 6/1) NANNOFOSSIL OOZE interbedded with gray (5Y 5/1) and dark gray (5Y 4/1) SILTY CLAYEY MIXED SEDIMENT. Generally, the core is silty with some coarser layers. Many small pellets of coarser sediment are dispersed throughout the entire core. Black layers occur in Section 3 at 13 and 37 cm and in Section 4 at 58 cm. Greenish layers are dispersed throughout the core and concentrated in Section 4 at 115 cm and in Section 5 at 79 cm.
							5Y 4/1	
		2					10Y 4/1	
		3		(P)			5Y 4/1	
							10Y 6/1	
		4					10Y 5/1	
		5					5Y 4/1	
		6						
		7		P		M	10Y 6/1	
		CC						



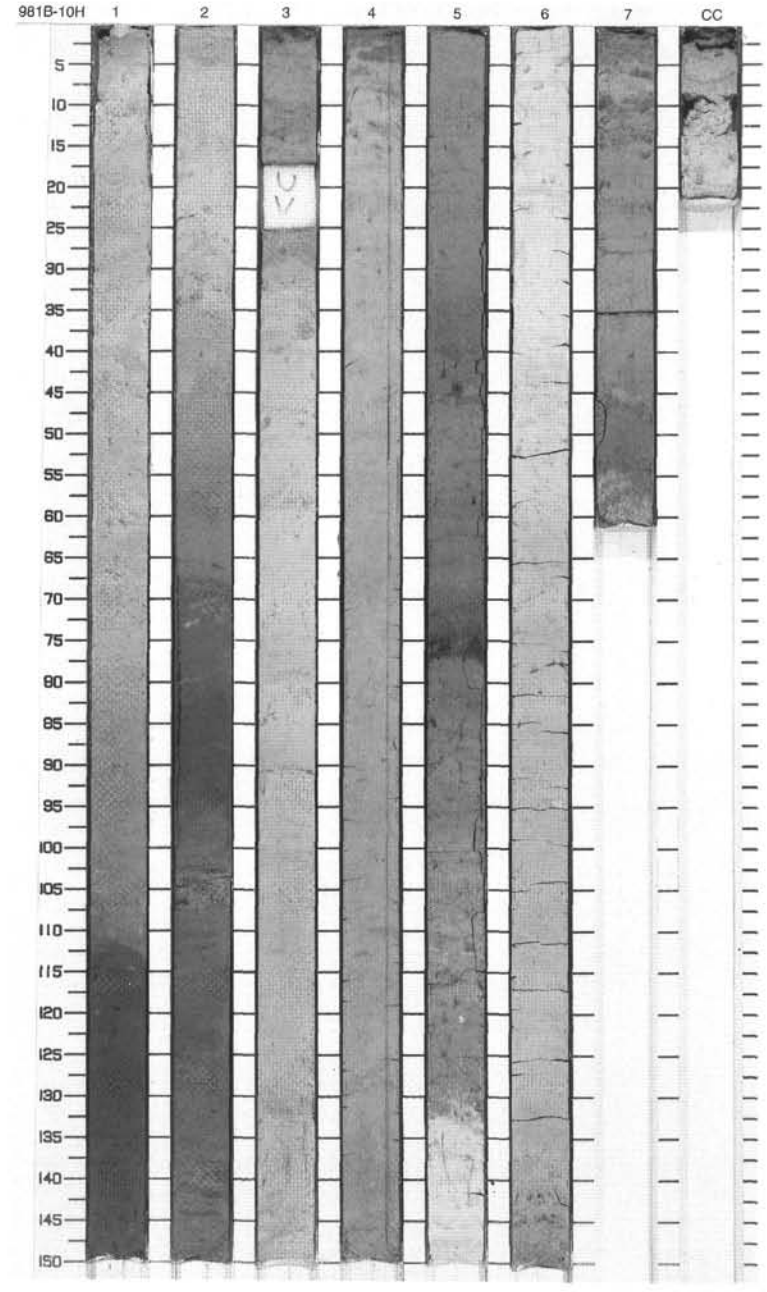
SITE 981 HOLE B CORE 9H CORED 68.9 - 78.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene		O		5Y 4/1	NANNOFOSSIL OOZE and NANNOFOSSIL MIXED SEDIMENT General Description: This core contains gray (5Y 5/1) to dark gray (5Y 4/1) NANNOFOSSIL MIXED SEDIMENT alternating with gray (5Y 6/1) NANNOFOSSIL OOZE. There are some gaps in many sections of the core especially near lithologic contrast. Black layers are present in Section 6 at 41 and 104 cm, and in Section 2 at 104 cm. Poorly defined greenish layers are dispersed throughout the core.
							5Y 5/1	
		2			O		10Y 6/1 To 5Y 5/1	
					W		5Y 4/1 To 5Y 5/1	
		3			W			
					WW		10Y 6/1 To 5Y 5/1	
		4		P			10Y 6/1	
							5Y 5/1	
		5		P			10Y 5/1	
		6					5Y 5/1	
		7					10Y 6/1	
		CC				M		



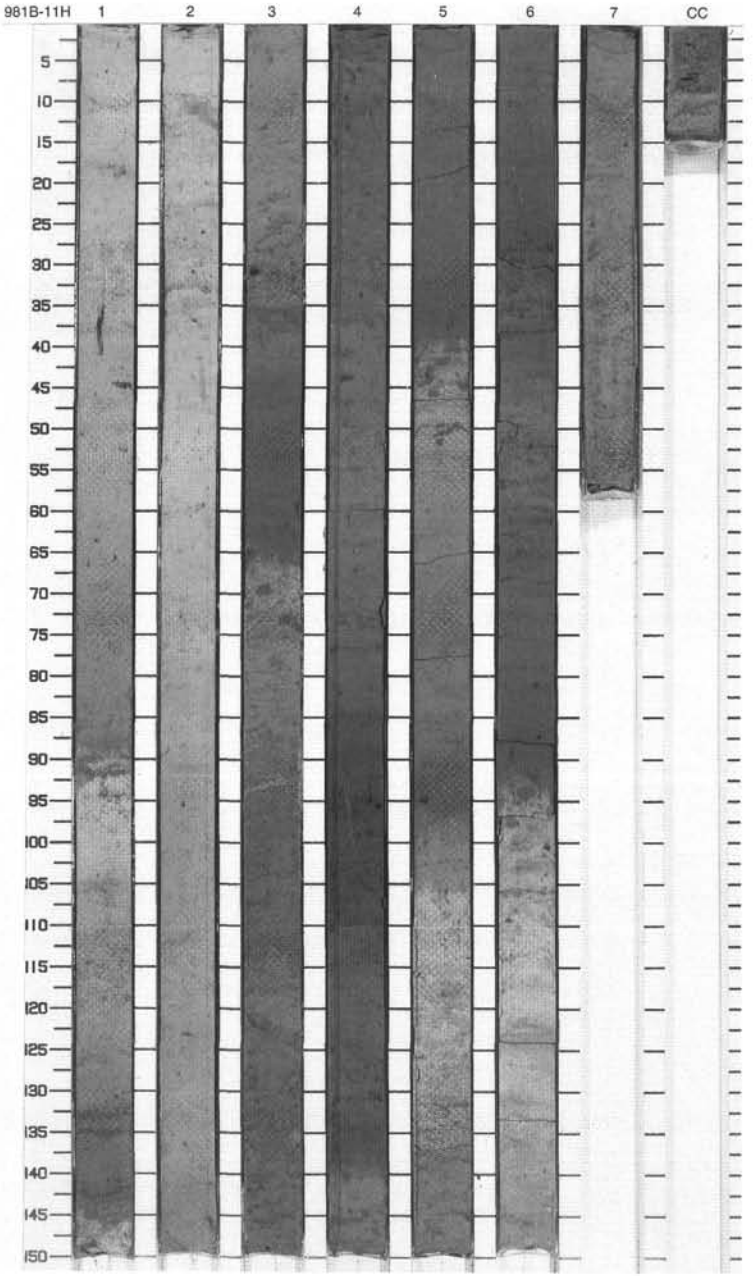
SITE 981 HOLE B CORE 10H CORED 78.4 - 87.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9	Void	1	Pleistocene		○○		5Y 6/1	NANNOFOSSIL OOZE and CLAYEY SILT WITH NANNOFOSSILS General Description: This core contains light greenish gray (10Y 6/1) NANNOFOSSIL OOZE alternating with dark gray to dark greenish gray (5Y 4/1 to 10Y 4/1) CLAYEY SILT WITH NANNOFOSSILS. Some silty intervals are dispersed throughout the core. Slight greenish layers are present in Sections 3, 4, and 5. A black layer is situated at 72 cm in Section 5. In Section 3, some light *Chondrites* are present in dark sediment (89–92 cm) and darker burrows are also present in light intervals (131–138 cm). There is a vertical 8-cm-long and 0.5-cm-wide burrow at 130 cm in Section 5.
							10Y 4/1	
		2					10Y 6/1	
		3					5Y 5/1 To 5Y 4/1	
		4					5Y 6/1	
		5					5Y 5/1	
		6					10Y 7/1	
							10Y 6/1	
		7					5Y 5/1	
		CC				M		



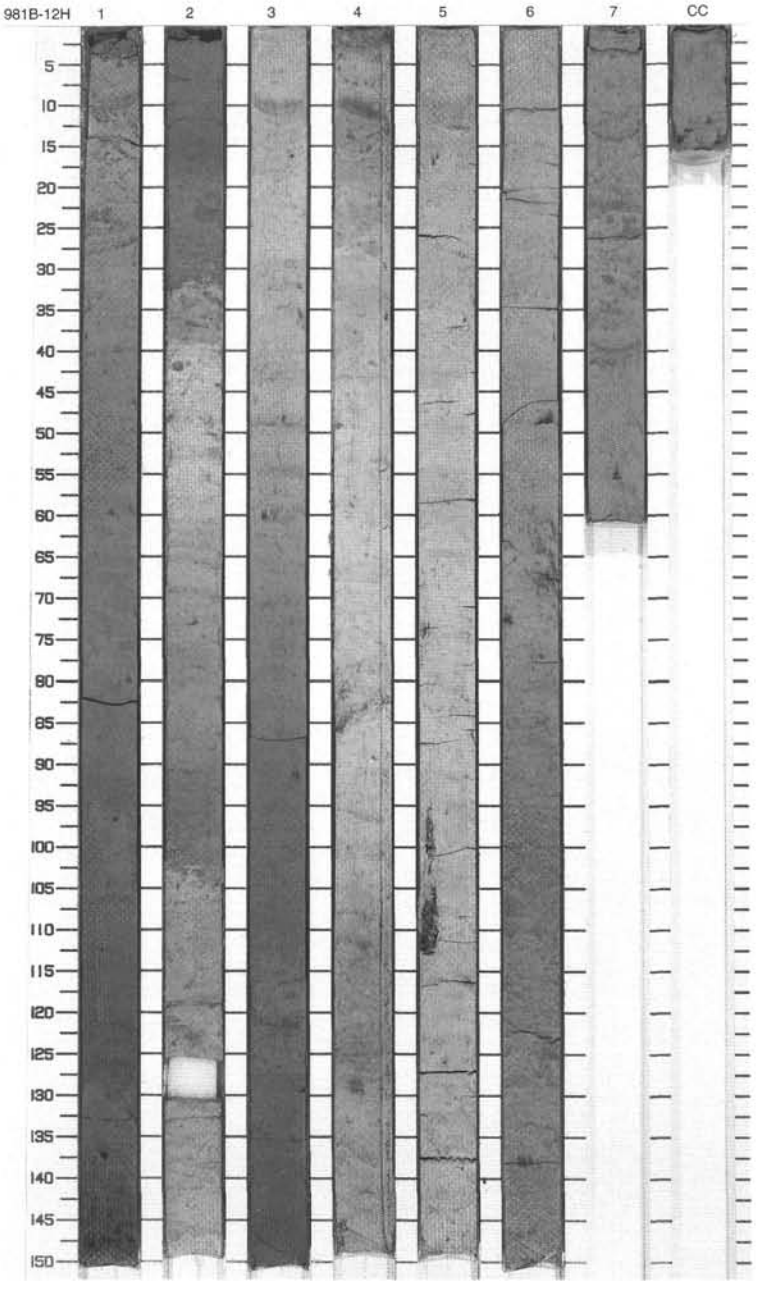
SITE 981 HOLE B CORE 11H CORED 87.9 - 97.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	late Pliocene–Pleistocene	P			10Y 6/1 To 5Y 5/1	NANNOFOSSIL OOZE WITH SILTY CLAY AND FORAMINIFERS and CLAYEY NANNOFOSSIL MIXED SEDIMENT General Description: This core contains gray (10Y 6/1) NANNOFOSSIL OOZE WITH SILTY CLAY AND FORAMINIFERS interbedded with gray (5Y 6/1 and 5Y 5/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT. The sediment is firm and homogeneous. The sediment is moist in Section 3, 85–110 cm. A 1-cm-long black basaltic dropstone is present at 30 cm in Section 3. Chondrites-like burrows occur throughout the core, especially at color boundaries. Faint greenish bands are dispersed and a wide black layer with gradual contact is present in Section 4 between 90 and 95 cm.
		2		P			10Y 6/1	
		3		◇			5Y 5/1	
							10Y 6/1	
		4		P			5Y 5/1	
		5					10Y 6/1 To 5Y 5/1	
							10Y 6/1 To 5Y 5/1	
		6					10Y 6/1	
							5Y 5/1	
		7		F		M	10Y 6/1	
		CC						



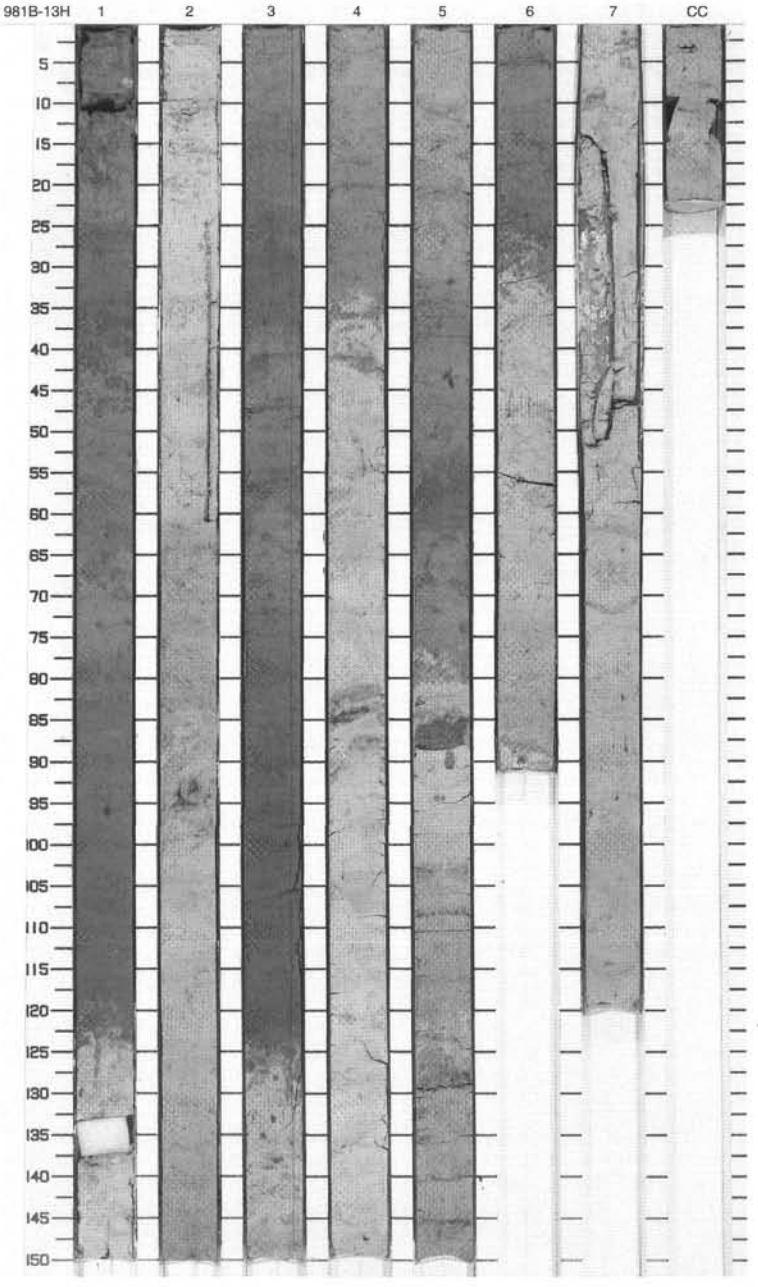
SITE 981 HOLE B CORE 12H CORED 97.4 - 106.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9	Void	1–7, CC	late Pliocene	P		M	5Y 5/1; 5Y 6/1; 5Y 4/1; 5Y 6/1; 10Y 5/1	NANNOFOSSIL OOZE WITH FORAMINIFERS and CLAYEY NANNOFOSSIL MIXED SEDIMENT General Description: This core contains gray (5Y 5/1 and 5Y 6/1) NANNOFOSSIL OOZE WITH FORAMINIFERS and dark gray (5Y 4/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT. The sediment is very firm. Disseminated pyrite and greenish layers are sparsely dispersed throughout the entire core. A filled long burrow is present between 43 and 63 cm in Section 4.



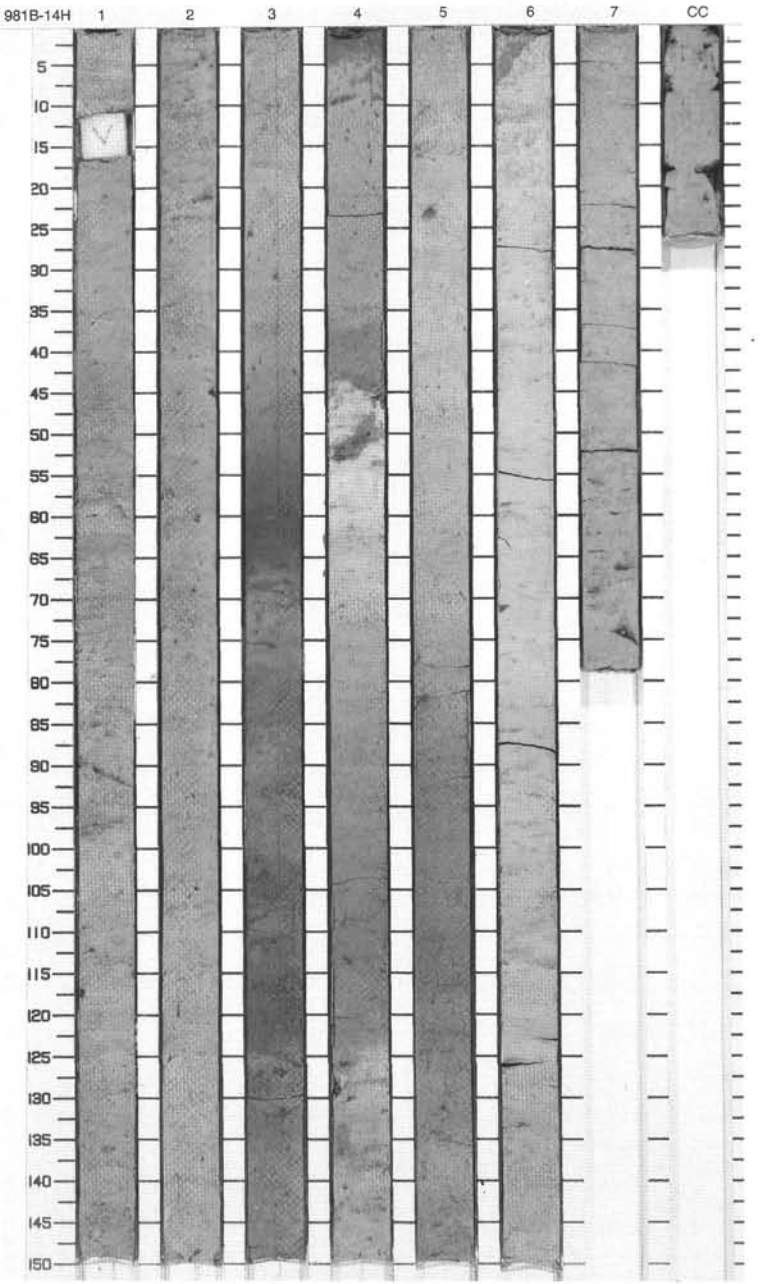
SITE 981 HOLE B CORE 13H CORED 106.9 - 116.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	late Pliocene			I	5Y 5/1	NANNOFOSSIL OOZE WITH CLAY and NANNOFOSSIL OOZE WITH FORAMS General Description: This core contains light gray to gray (5Y 7/1 to 5Y 5/1) NANNOFOSSIL OOZE WITH CLAY and gray (5Y 6/1) NANNOFOSSIL OOZE WITH FORAMINIFERS. Color changes are gradational, and repeated. Faint greenish color bands are dispersed throughout the core. Slight bioturbation occurs throughout the core. Pyrite concretions and black spots (probable disseminated pyrite) are scattered throughout the core. Soft, moist sediment is present between Section 1, 125 cm and Section 2, 50 cm. The sediment is void at Section 1, 133–138 cm.
	Void							
2		2		P			5Y 7/1	
3		3					5Y 5/1	
4		4					5Y 6/1 To 5Y 7/1	
5		5		P			5Y 5/1 To 5Y 6/1	
6		6						
7		7					5Y 7/1	
8		CC				M		



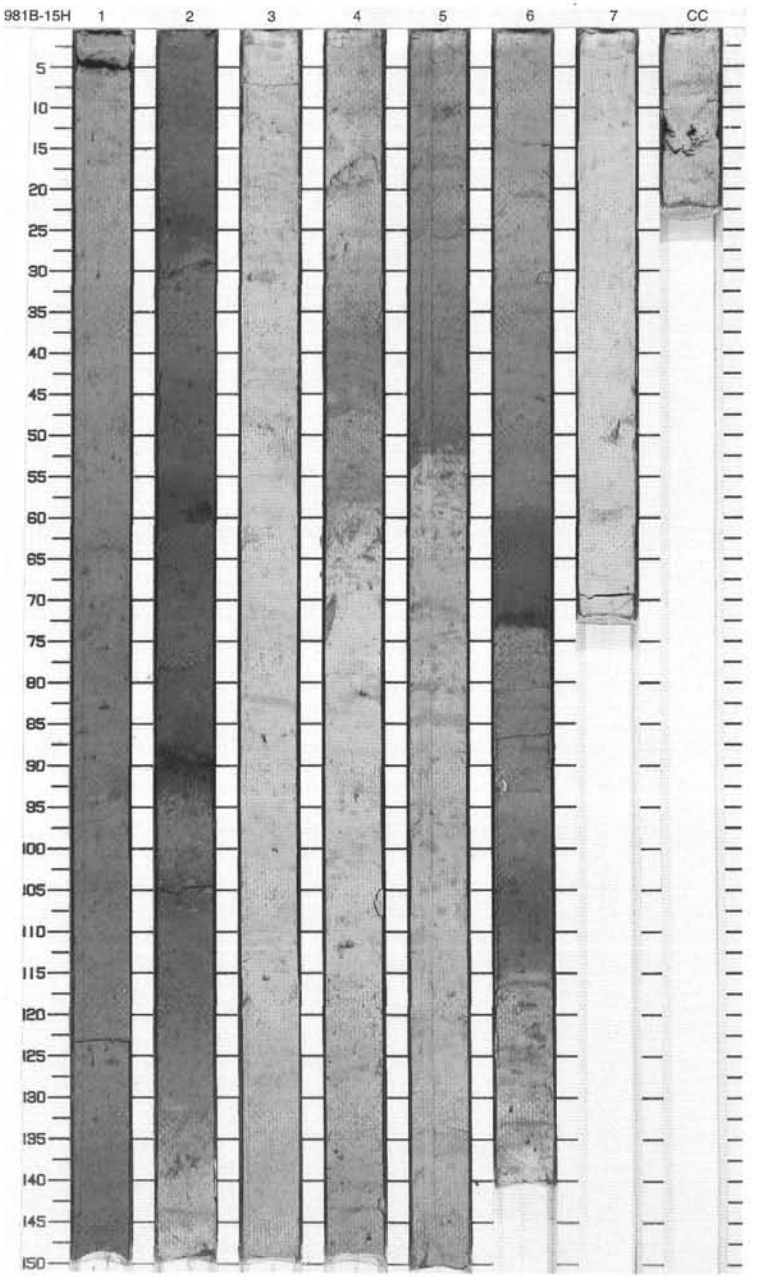
SITE 981 HOLE B CORE 14H CORED 116.4 - 125.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–10		1	late Pliocene	P			5Y 7/1	NANNOFOSSIL OOZE WITH CLAY and NANNOFOSSIL OOZE WITH FORAMS General Description: This core contain light gray (5Y 7/1) NANNOFOSSIL OOZE WITH CLAY alternating with gray (5Y 6/1 to 5Y 7/1) NANNOFOSSIL OOZE WITH FORAMINIFERS. Faint greenish color bands are dispersed throughout the core. Slight bioturbation and black spots (probable disseminated pyrite) occurs throughout the core. The sediment is void in Section 1, 10–16 cm.
		2		P				
		3		P			5Y 6/1 To 5Y 5/1	
		4		P			5Y 8/1	
							5Y 6/1	
		5		P			5Y 6/1 To 5Y 7/1	
		6		P			5Y 7/1	
		7						
		CC				M		



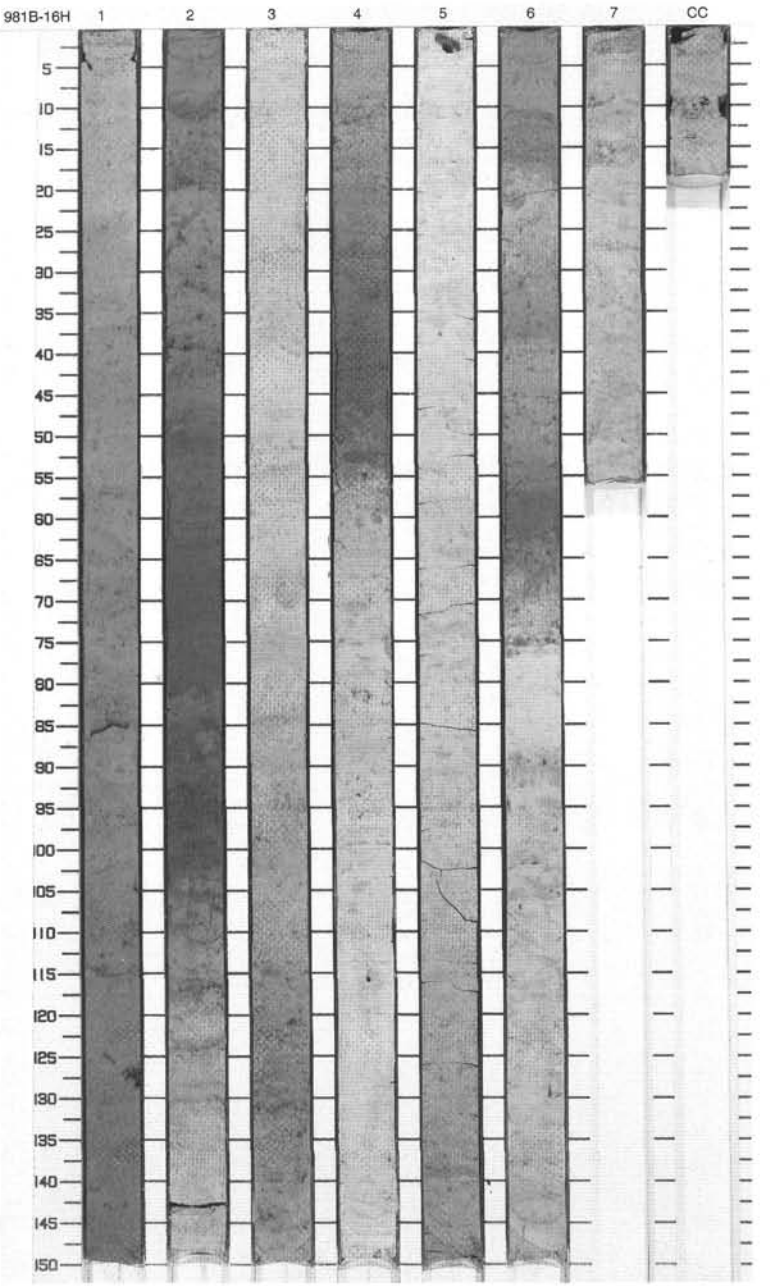
SITE 981 HOLE B CORE 15H CORED 125.9 - 135.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	late Pliocene	P P			5GY 6/1	NANNOFOSSIL OOZE and NANNOFOSSIL OOZE WITH FORAMINIFERS General Description: This core contains light gray to gray (5GY 6/1 to 5Y 7/1) NANNOFOSSIL OOZE alternating with gray to dark gray (5Y 6/1 to 5Y 4/1) NANNOFOSSIL OOZE WITH CLAY. Dark gray (5Y 4/1) sediment occurs within gray (5Y 6/1) nannofossil ooze, and constitutes color bands. Slight bioturbaton occurs throughout the core. Pyrite is disseminated throughout, and also occurs in discrete layers.
		2		P			5GY 4/1 To 5GY 5/1	
		3		P			5Y 6/1	
		4		P ◇ P				
		5					5GY 5/1 To 5GY 6/1	
		6						
		7					5Y 6/1	
		CC				M		



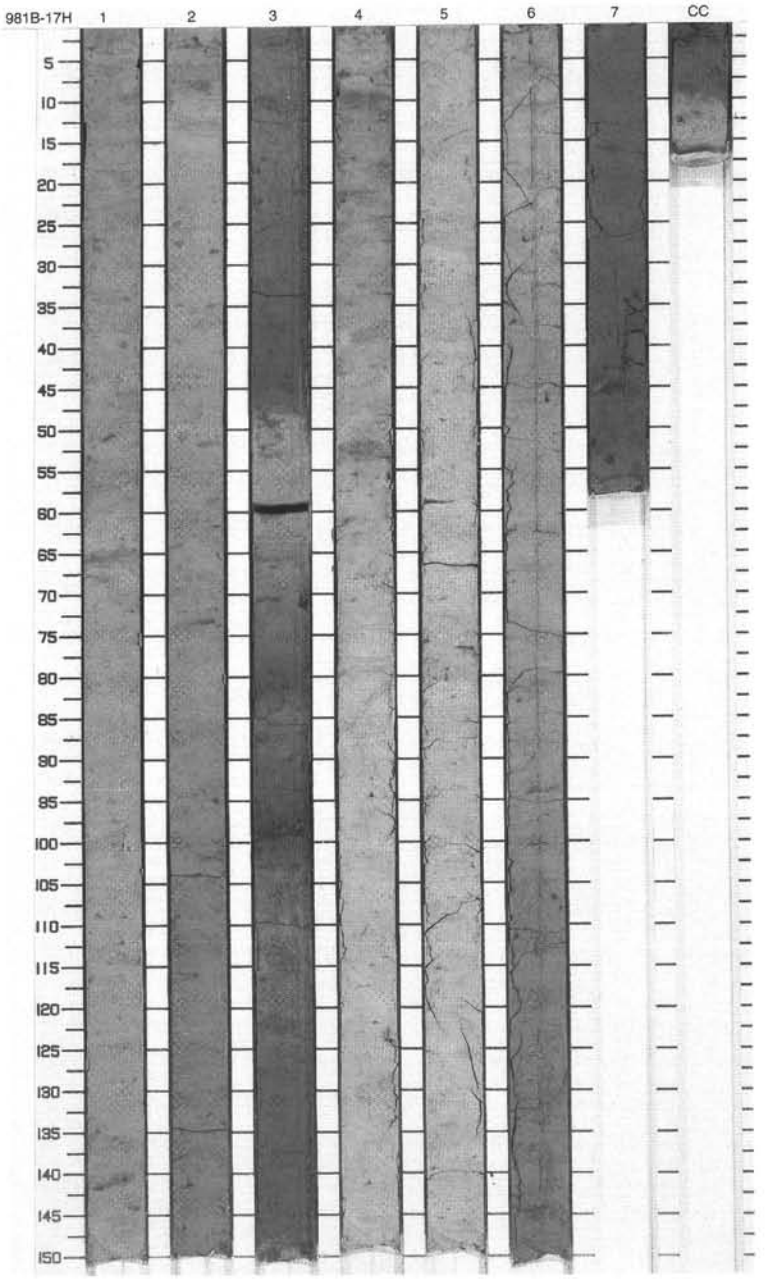
SITE 981 HOLE B CORE 16H CORED 135.4 - 144.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	late Pliocene		W		10Y 5/1	NANNOFOSSIL OOZE WITH CLAY, NANNOFOSSIL CLAY MIXED SEDIMENT and NANNOFOSSIL CLAY General Description: This core contains light gray (10Y 6/1) NANNOFOSSIL OOZE WITH CLAY alternating with gray (10Y 5/1) NANNOFOSSIL CLAY MIXED SEDIMENT and dark gray (5Y 4/1) NANNOFOSSIL CLAY. The entire core is slightly color mottled. Pyrite and other sulfides occur both in disseminated thin horizons and filled burrows. Color changes are generally gradational. Green layers occur in Sections 4 and 5. Dark color bands occur in Section 6.
							10Y 5/1 To 5Y 4/1	
		2					10Y 6/1	
		3					10Y 5/1 To 5Y 4/1	
		4					10Y 6/1	
		5					5Y 4/1	
		6					10Y 6/1	
		7						
		CC				M		



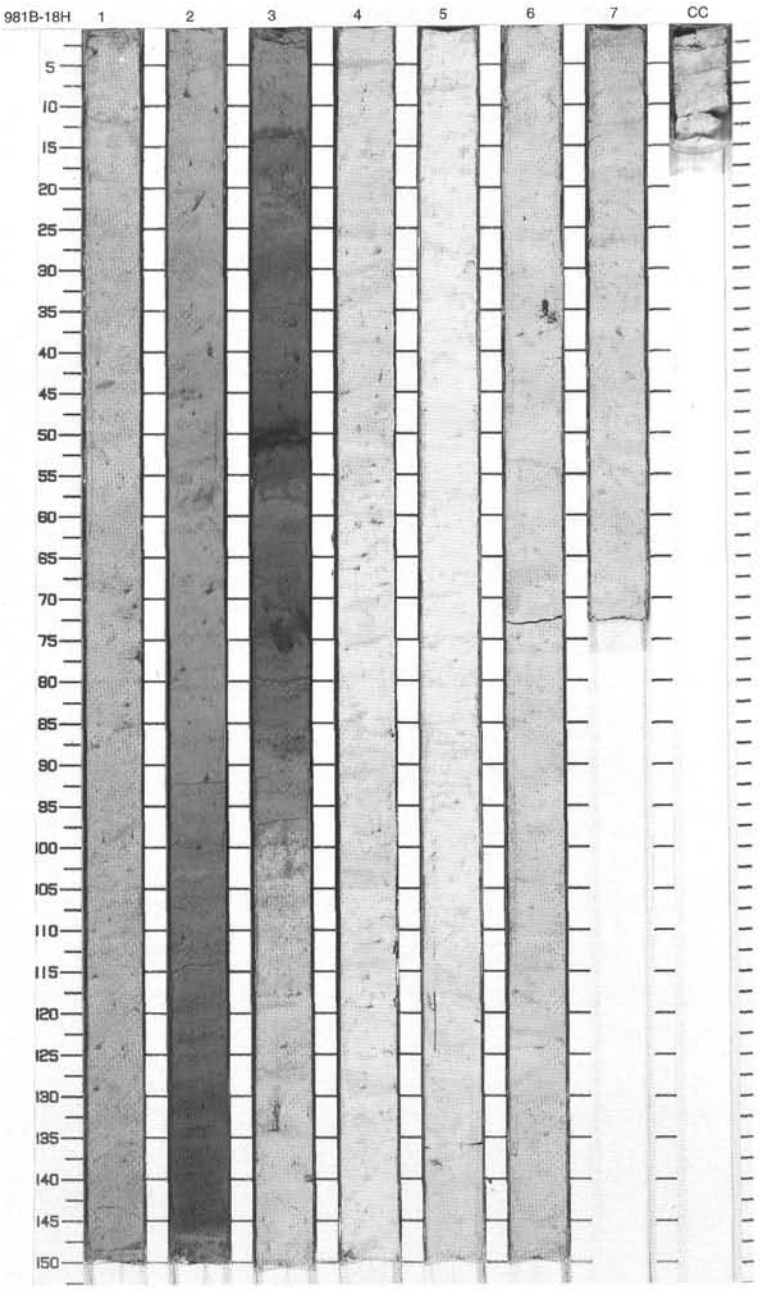
SITE 981 HOLE B CORE 17H CORED 144.9 - 154.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–7, CC	late Pliocene	P	W	M	10Y 6/1; 5Y 4/1; 10Y 5/1; 10Y 6/1; 10Y 5/1; 10Y 4/1	NANNOFOSSIL OOZE WITH CLAY and SILTY CLAY WITH NANNOFOSSILS General Description: This core contains homogeneous, fine-grained, gray (10Y 6/1) NANNOFOSSIL OOZE WITH CLAY and dark gray (5Y 4/1) SILTY CLAY WITH NANNOFOSSILS. The core is slightly mottled throughout. Dark color bands are present at Section 3, 84–87 cm, 98–103 cm, and at Section 7, 42–46 cm. Disseminated pyrite occurs in small blebs throughout. A soft, light layer with some foraminifers is present at Section 3, 47–65 cm. The sand content increases from Section 7, 45 cm to the bottom of the core, and a small-sized dropstone is present at Section 7, 55 cm.



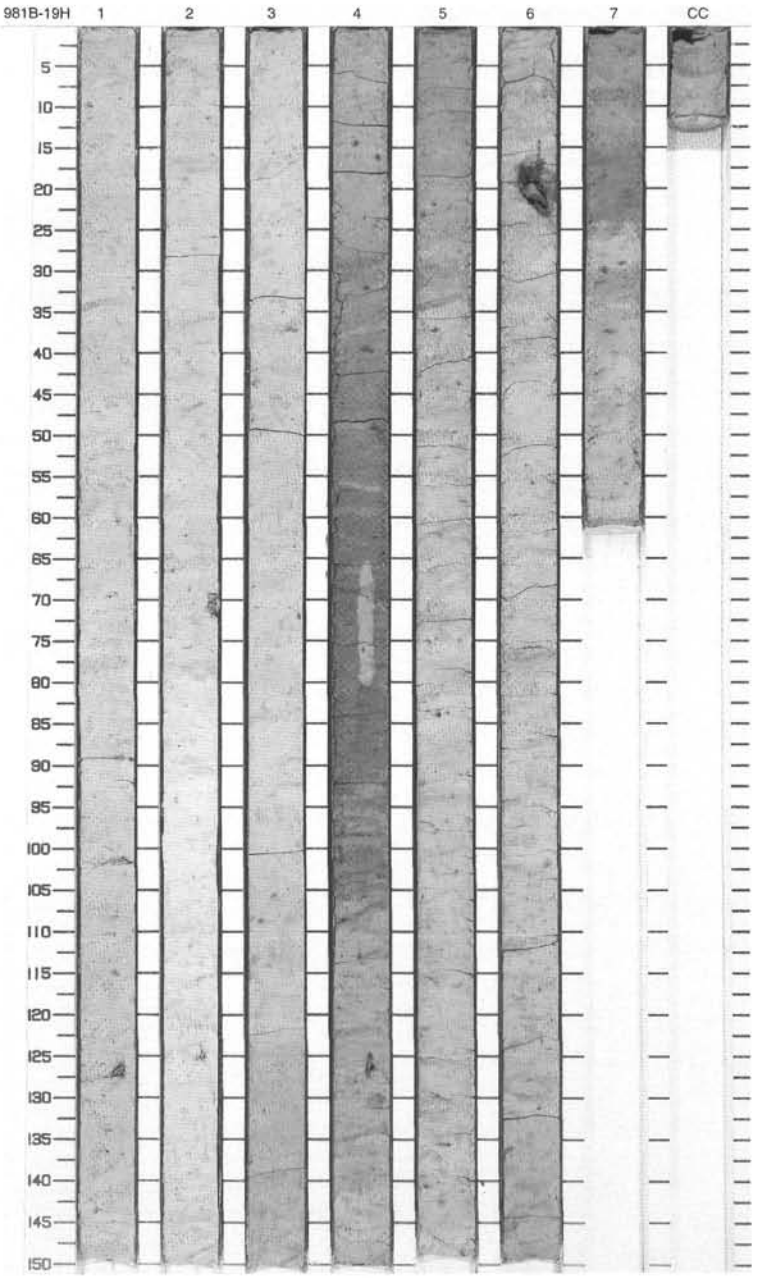
SITE 981 HOLE B CORE 18H CORED 154.4 - 163.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–7, CC	late Pliocene	P, Ⓟ		M	5GY 7/1 To 5GY 6/1; 5GY 4/1 To 5Y 4/1; 5Y 8/1; 5Y 7/1	NANNOFOSSIL OOZE WITH CLAY and NANNOFOSSIL OOZE WITH FORAMINIFERS General Description: This core contains light greenish gray to greenish gray (5GY 7/1 to 5GY 6/1) NANNOFOSSIL OOZE WITH FORAMS and white to light gray (5Y 8/1 to 5Y 7/1) NANNOFOSSIL OOZE WITH CLAY interbedded with dark greenish gray (5GY 4/1) and dark gray (5Y 4/1) foraminifer-rich layers, containing distinctive medium-thickness black color bands. The sediment has a mottled surface due to slight bioturbation. Disseminated pyrite and pyrite nodules are scattered throughout the core.



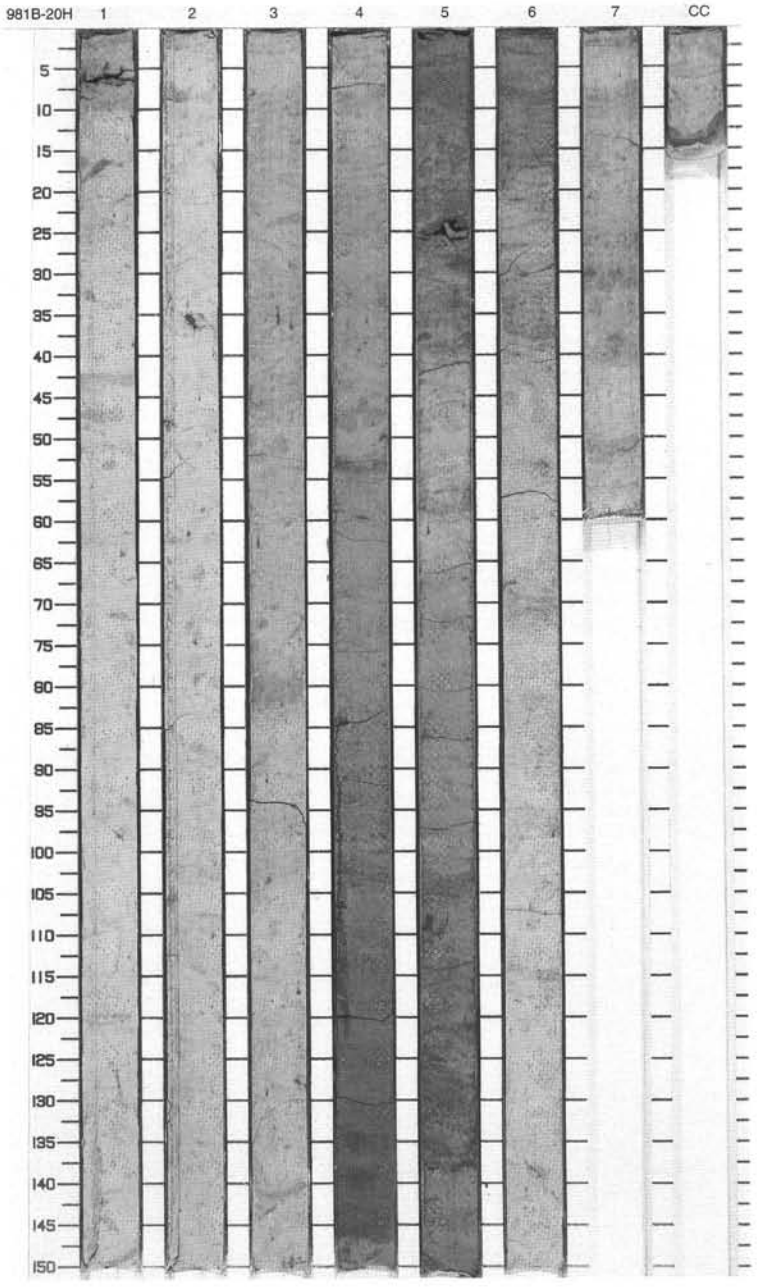
SITE 981 HOLE B CORE 19H CORED 163.9 - 173.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	late Pliocene				5GY 7/1	NANNOFOSSIL OOZE and NANNOFOSSIL OOZE WITH CLAY General Description: This core contains firm, homogeneous, light gray (10Y 7/1) to greenish gray (5GY 6/1) NANNOFOSSIL OOZE and gray (10Y 5/1) to dark gray (10Y 4/1) NANNOFOSSIL OOZE WITH CLAY. The core is both slightly mottled and slightly bioturbated throughout. Color changes are gradational. Disseminated pyrite occurs in small dispersed blebs, and three pyritized burrows are present at Section 1, 127 cm, at Section 4, 126 cm, and at Section 6, 18–23 cm.
		2					10Y 7/1	
		3					5GY 7/1	
		4					10Y 4/1	
							10Y 5/1	
		5					5GY 6/1	
		6					10Y 7/1	
		7				M	10Y 5/1	
		CC						



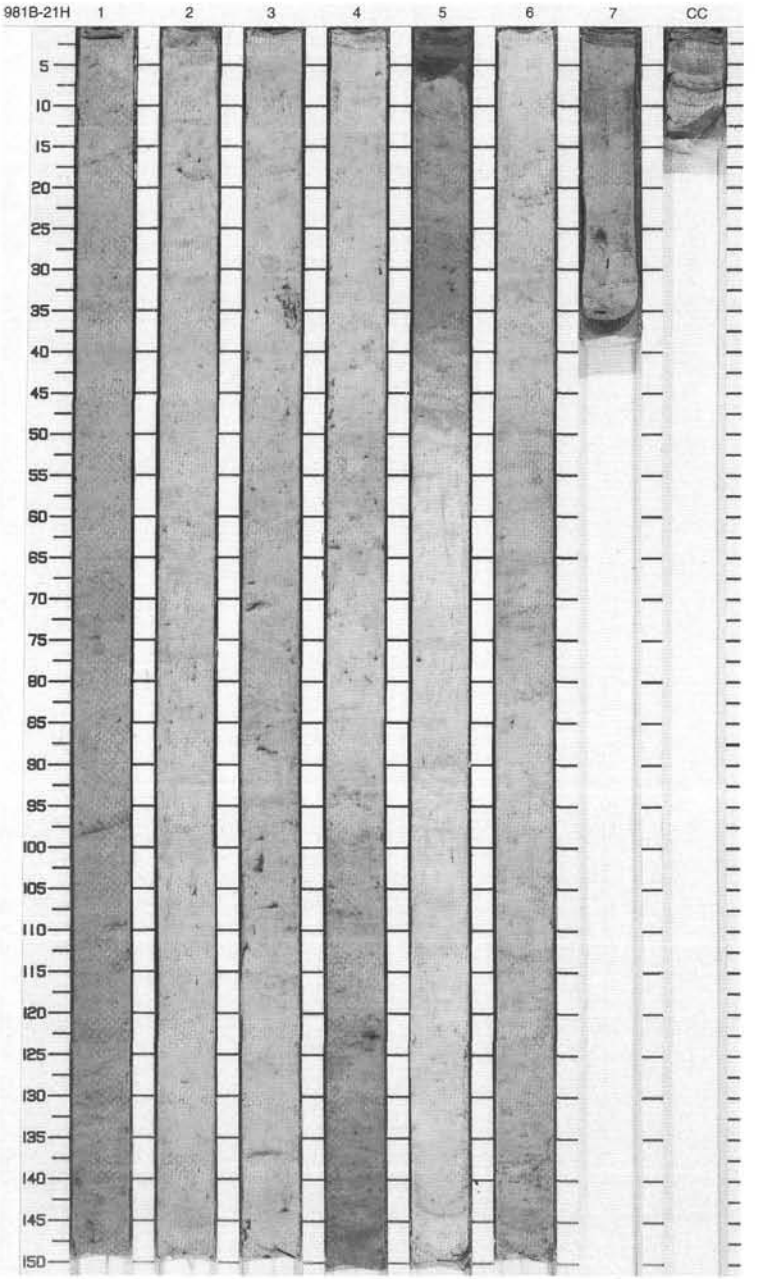
SITE 981 HOLE B CORE 20H CORED 173.4 - 182.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–7, CC	late Pliocene		W	M	5GY 6/1; 10Y 5/1 To 10Y 4/1; 10Y 5/1; 5GY 6/1	NANNOFOSSIL OOZE WITH CLAY General Description: This core contains gray (10Y 6/1 and 10Y 5/1) and greenish gray (5GY 5/1) NANNOFOSSIL OOZE WITH CLAY. The entire core is slightly bioturbated. Disseminated pyrite occurs both in thin horizons and dispersed blebs. A color band is situated between 30 cm to 40 cm in Section 2. The sediment is coarser in Section 4 between 0 and 16 cm.



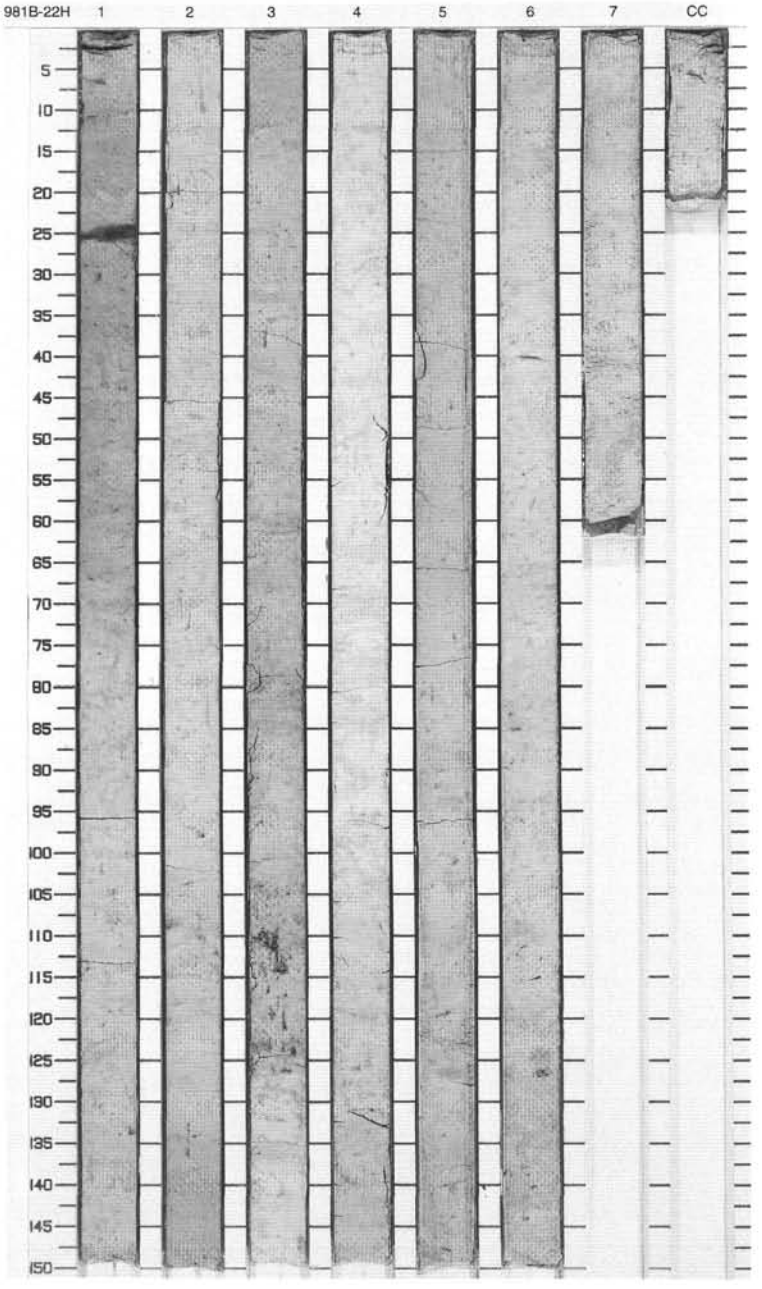
SITE 981 HOLE B CORE 21H CORED 182.9 - 192.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	late Pliocene				5GY 6/1 To 5GY 7/1	HOMOGENEOUS NANNOFOSSIL OOZE General Description: This core contains light greenish gray to greenish gray (5GY 6/1 to 5GY 7/1) NANNOFOSSIL OOZE entirely. Slight and gradational color changes occur throughout the core except for Section 5, 0–6 cm in which a very dark gray (5Y 3/1) layer is interbedded. Slight bioturbation and black spots (probable disseminated pyrite) occur throughout the core.
		2		P				
		3		P P P P				
		4		P P				
		5		P P			5GY 5/2 5GY 7/1 To 5GY 6/1	
		6						
		7				M	5GY 5/1	
		CC						



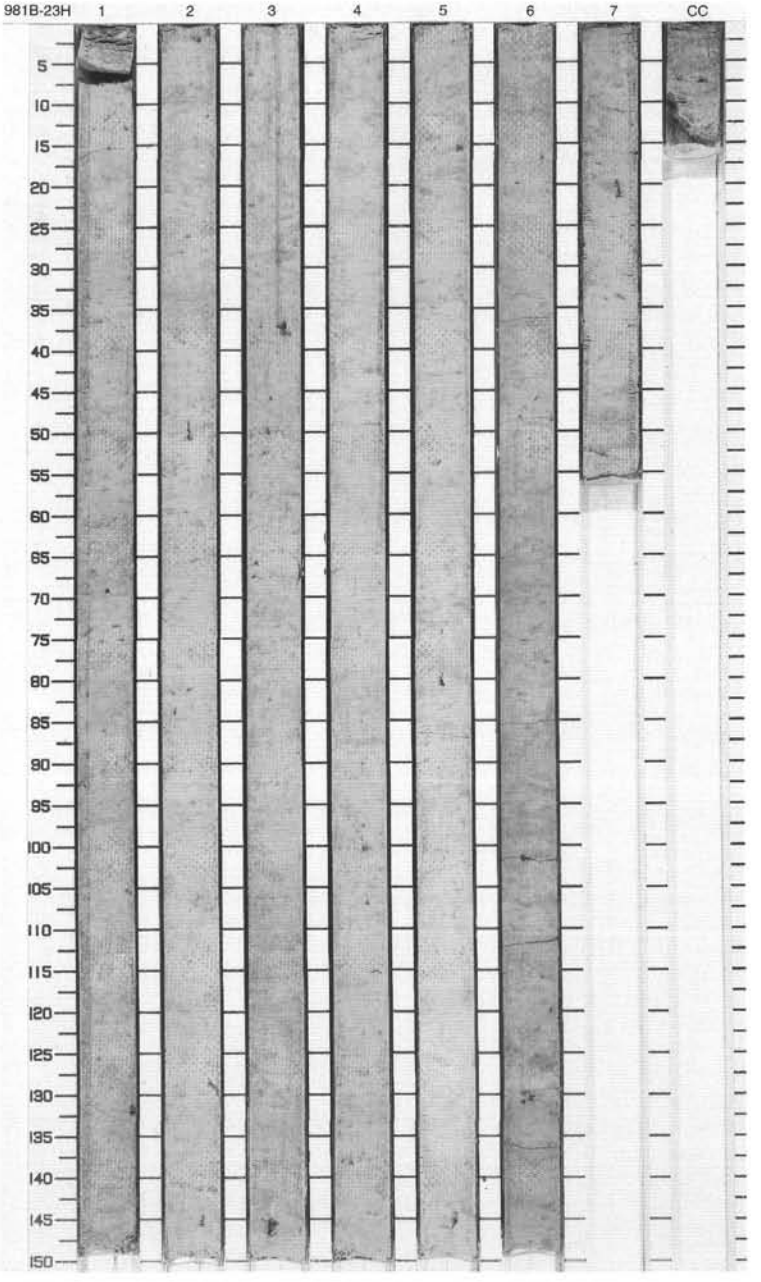
SITE 981 HOLE B CORE 22H CORED 192.4 - 201.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–7, CC	late Pliocene	P, (P)		M	5GY 6/1; 5GY 7/1; 5GY 6/1; 5GY 7/1; 5GY 6/1	NANNOFOSSIL OOZE and NANNOFOSSIL OOZE WITH CLAY General Description: This core contains homogeneous, fine-grained, greenish gray (5GY 6/1) NANNOFOSSIL OOZE WITH CLAY and light greenish gray (5GY 7/1) NANNOFOSSIL OOZE. Slight and gradational color changes occur throughout the core. A greenish layer with some pyrite concretions occurs at Section 3, 108–126 cm. A thin, dark, sandy band is present at Section 1, 23–25 cm. Slight bioturbation and black disseminated pyrite spots occur throughout the core.



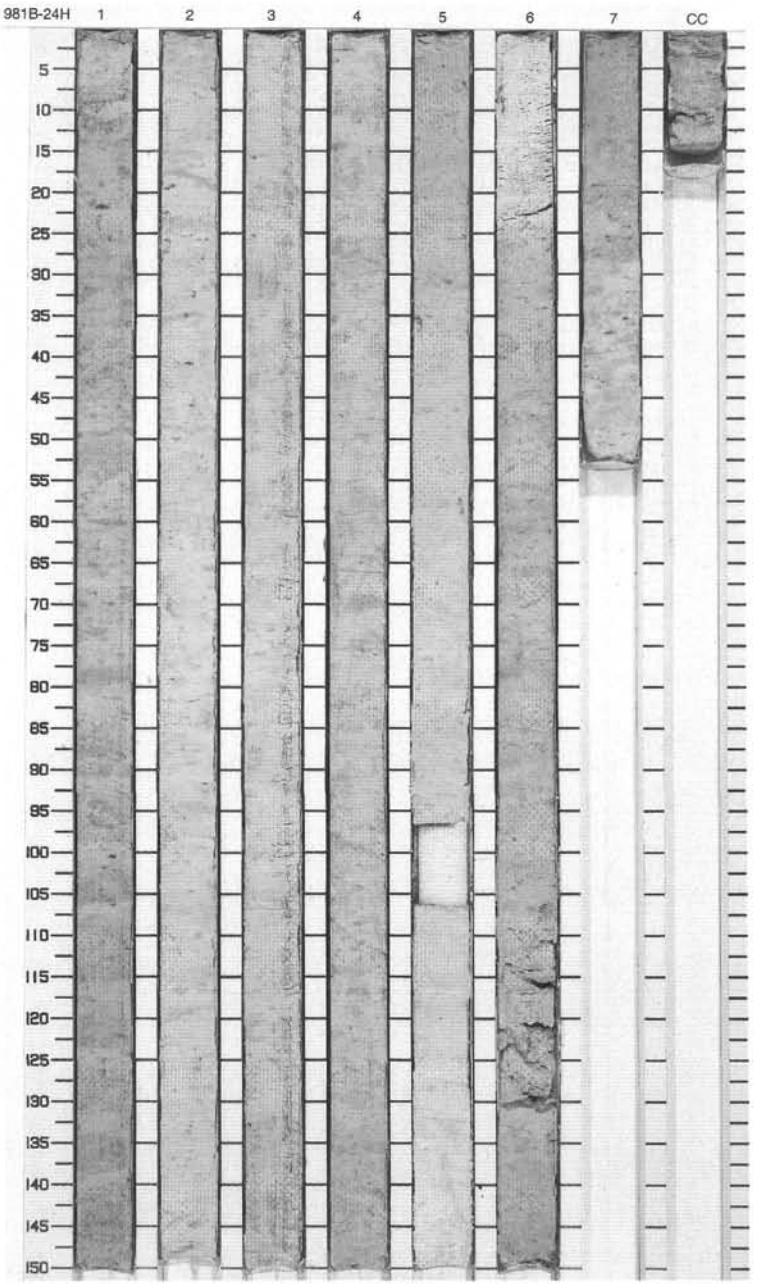
SITE 981 HOLE B CORE 23H CORED 201.9 - 211.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–7, CC	late Pliocene	Ⓟ, P		M	5GY 7/1 To 5GY 6/1	NANNOFOSSIL OOZE *General Description:* This core contains light greenish gray (5GY 7/1) to greenish gray (5GY 6/1) NANNOFOSSIL OOZE. Visible color change are missing. Slight bioturbation occurs throughout the core. Pyrite concretions and disseminated pyrite are scattered throughout the core.



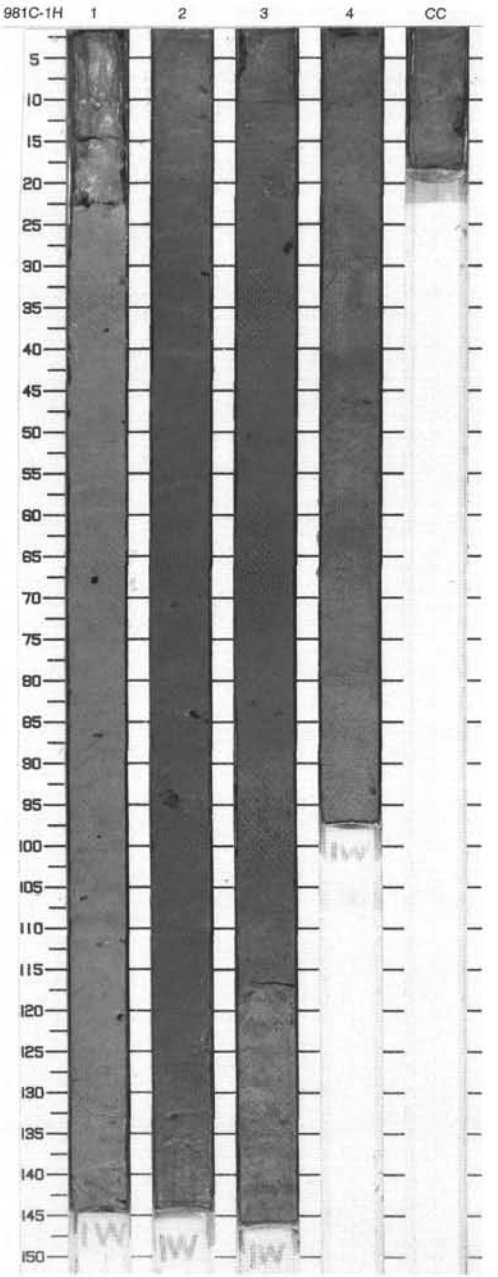
SITE 981 HOLE B CORE 24H CORED 211.4 - 220.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9	Void	1–7, CC	late Pliocene	P	○ ○	M	5GY 6/1 To 5GY 5/1	NANNOFOSSIL OOZE General Description: This core contains greenish gray (5GY 6/1 and 5GY 5/1) NANNOFOSSIL OOZE. The core is slightly bioturbated throughout. Disseminated pyrite is dispersed in all sections. The core is soupy between 97 and 107 cm in Section 6, due to coring disturbance. The color is homogeneous.



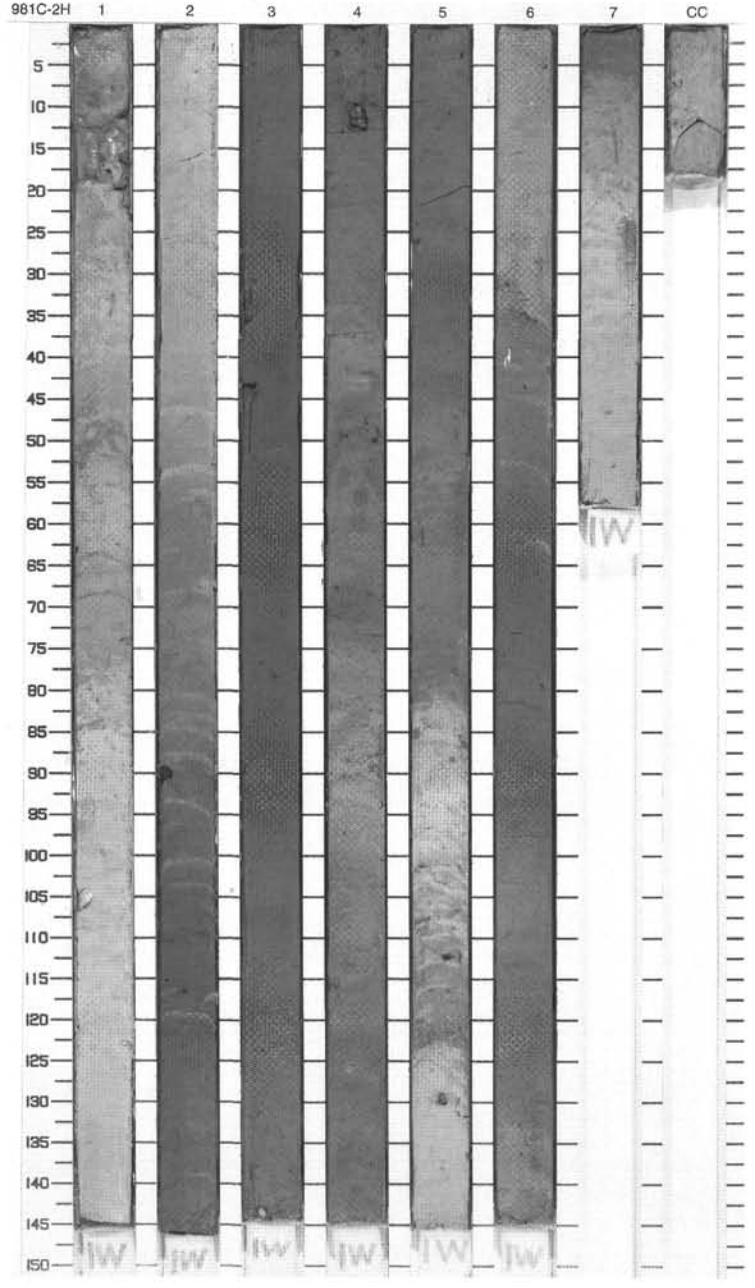
SITE 981 HOLE C CORE 1H COVERED 0.0 - 5.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–5		1, 2, 3, 4, CC	Pleistocene	P, ◇		I	5Y 5/1; 5Y 4/1 To 5Y 5/1	CLAYEY NANNOFOSSIL MIXED SEDIMENT and SILTY CLAY WITH NANNOFOSSILS General Description: The core contains gray (5Y 5/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT and dark gray (5Y 4/1) SILTY CLAY WITH NANNOFOSSILS. Most of the transitions are gradational. The top 5 cm is a brown (10YR 4/3) clayey nannofossil mixed sediment. Minor disseminated pyrite is present throughout the core. Coarser layers are situated at 100 cm in Section 2, between 30 and 36 cm in Section 3, and at 57 and 73 cm in Section 3. Greenish layers occur in Section 4. A 1.5-cm-sized basalt dropstone is present at 94 cm in Section 2.



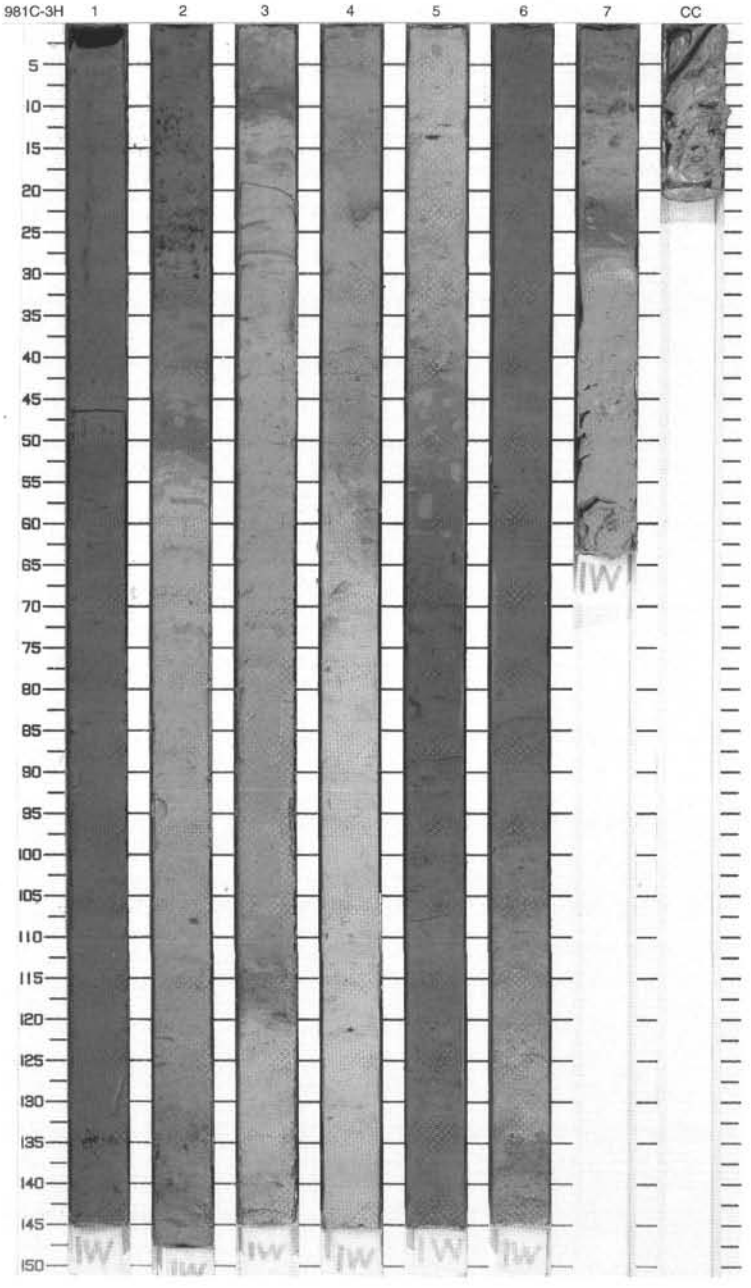
SITE 981 HOLE C CORE 2H CORED 5.7 - 15.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene	P	○○		5Y 5/1	NANNOFOSSIL OOZE WITH CLAY and CLAY WITH NANNOFOSSILS General Description: This core contains gray (5Y 6/1 to 5Y 5/1) NANNOFOSSIL OOZE WITH CLAY alternating with gray (5Y 5/1) to dark gray (5Y 4/1) CLAY WITH NANNOFOSSILS. Disseminated pyrite occurs in thin horizons throughout the entire core. Mostly transitions are gradual. Some greenish color bands occur in Sections 1, 2, 4, and 5. The sediment is coarser at Section 4, 45–63 cm, and 80–100 cm. A subangular 1.7-cm-sized black dropstone (amphibolite?) is situated at 88 cm in Section 2 and a 3.5-cm-long flat subangular dropstone (amphibolite) is present at 10 cm in Section 4. The top of the core is soupy due to coring disturbance.
						I	5Y 6/1	
		2		P ◇			5Y 5/1 To 5Y 4/1	
						I		
		3		P		I		
		4		◇ P			5Y 4/1	
						I		
		5						
						I	5Y 6/1 To 5Y 5/1	
		6		P			5Y 5/1 To 5Y 4/1	
						I		
		7		P		I	5Y 6/1	
		CC						



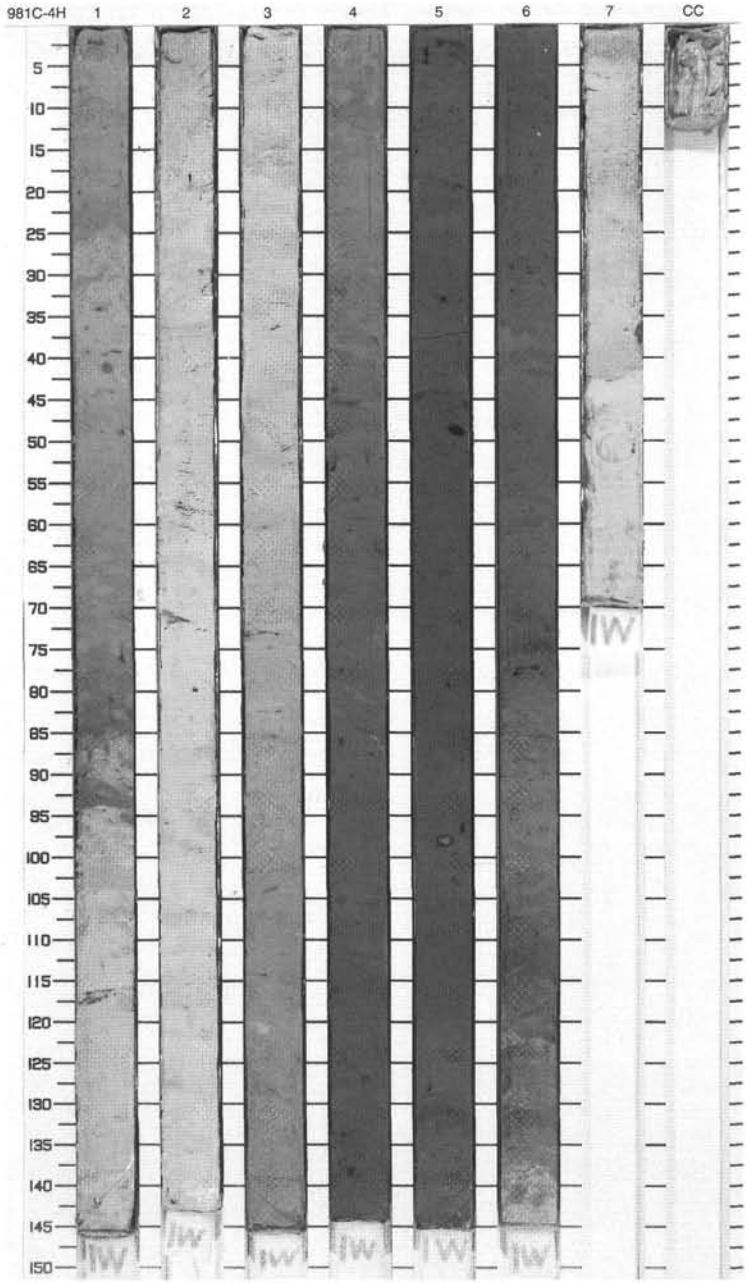
SITE 981 HOLE C CORE 3H CORED 15.2 - 24.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1 2 3 4 5 6 7 8 9		1 2 3 4 5 6 7 CC	Pleistocene	P P		I I I I I I I	5Y 4/1 To 5Y 5/1 5Y 6/1 To 5Y 5/1 5Y 6/1 5Y 4/1 5Y 6/1 To 5Y 5/1	NANNOFOSSIL OOZE WITH CLAY and CLAYEY NANNOFOSSIL MIXED SEDIMENT General Description: This core contains dark gray (5Y 4/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT alternating with gray (5Y 6/1) NANNOFOSSIL OOZE WITH CLAY. Color changes are gradational. Some greenish bands are present throughout the core. Some coarser horizons occur in Sections 1, 2, 5, and 6.



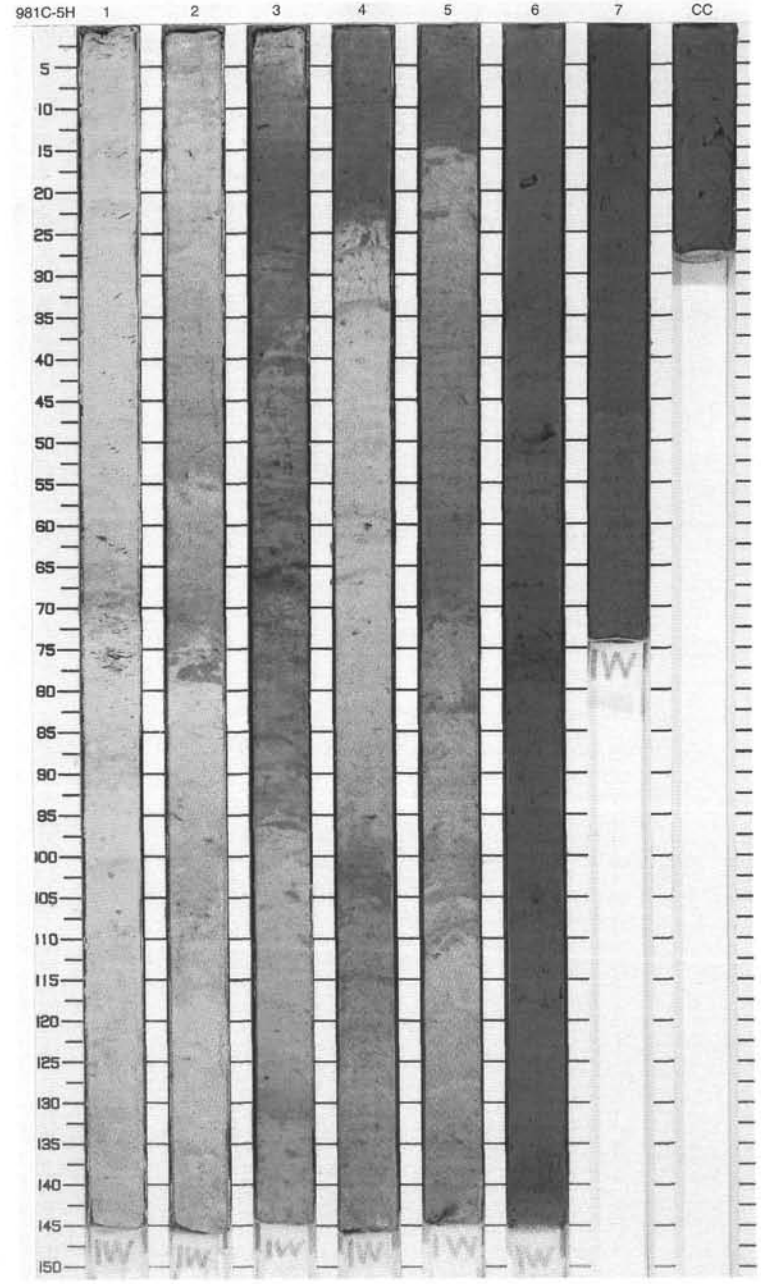
SITE 981 HOLE C CORE 4H CORED 24.7 - 34.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene	P		I	5Y 5/1 To 5Y 6/1	NANNOFOSSIL OOZE General Description: This core contains light gray (5Y 7/1) to dark gray (5Y 4/1) NANNOFOSSIL OOZE WITH CLAY. Color changes are gradational and some greenish bands occur throughout core. Disseminated pyrite occurs in thin horizons as well as dispersed throughout the core. Black layers are present in Sections 5 and 6. Coarser layers occur in the lower part of the core.
				P		I	5Y 6/1	
		2		P		I	5Y 7/1	
		3				I	5Y 6/1	
		4				I	5Y 5/1	
		5		P		I	5Y 4/1	
		6				I	5Y 5/1	
		7				I	5Y 6/1	
		CC					5Y 5/1	



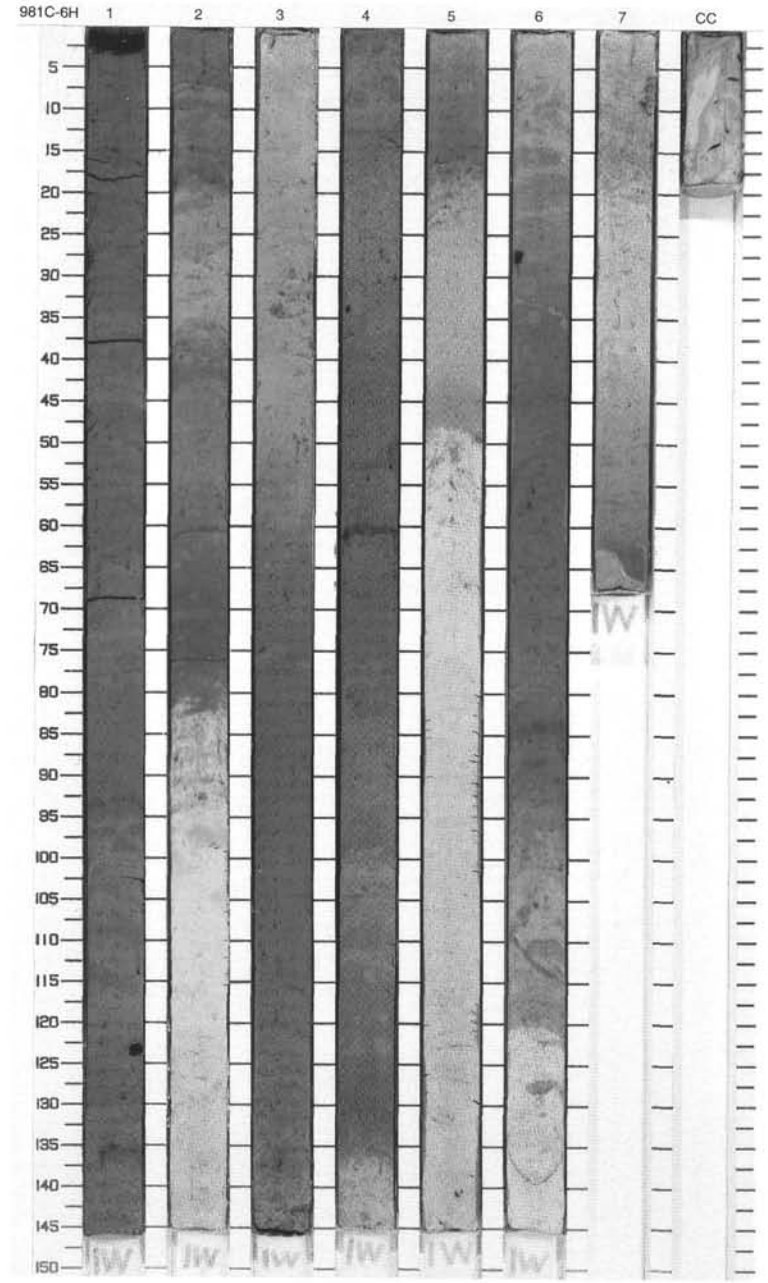
SITE 981 HOLE C CORE 5H CORED 34.2 - 43.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–10		1	Pleistocene				5Y 7/1	NANNOFOSSIL OOZE WITH CLAY and CLAYEY NANNOFOSSIL MIXED SEDIMENT General Description: This core contains light gray (5Y 7/1) NANNOFOSSIL OOZE WITH CLAY alternating with gray (10Y 6/1) to dark gray (5Y 4/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT. Disseminated pyrite occurs throughout the core. Some black layers occur in Sections 3, 5, and 6. Silty layers are interbedded in Sections 2, 3, 4, and 5. The core is disturbed in its uppermost and lowermost part, and in Section 4, 70–140 cm.
							5Y 7/1 To 5Y 5/1	
		2				I		
							5Y 7/1 To 5Y 4/1	
		3				I	5Y 5/1	
							10Y 6/1	
		4		P P		I	5Y 7/1	
							5Y 4/1	
		5		P		I	5Y 5/1	
							10Y 5/1	
		6		P		I	5Y 4/1	
		7			WWW	I		
		CC						



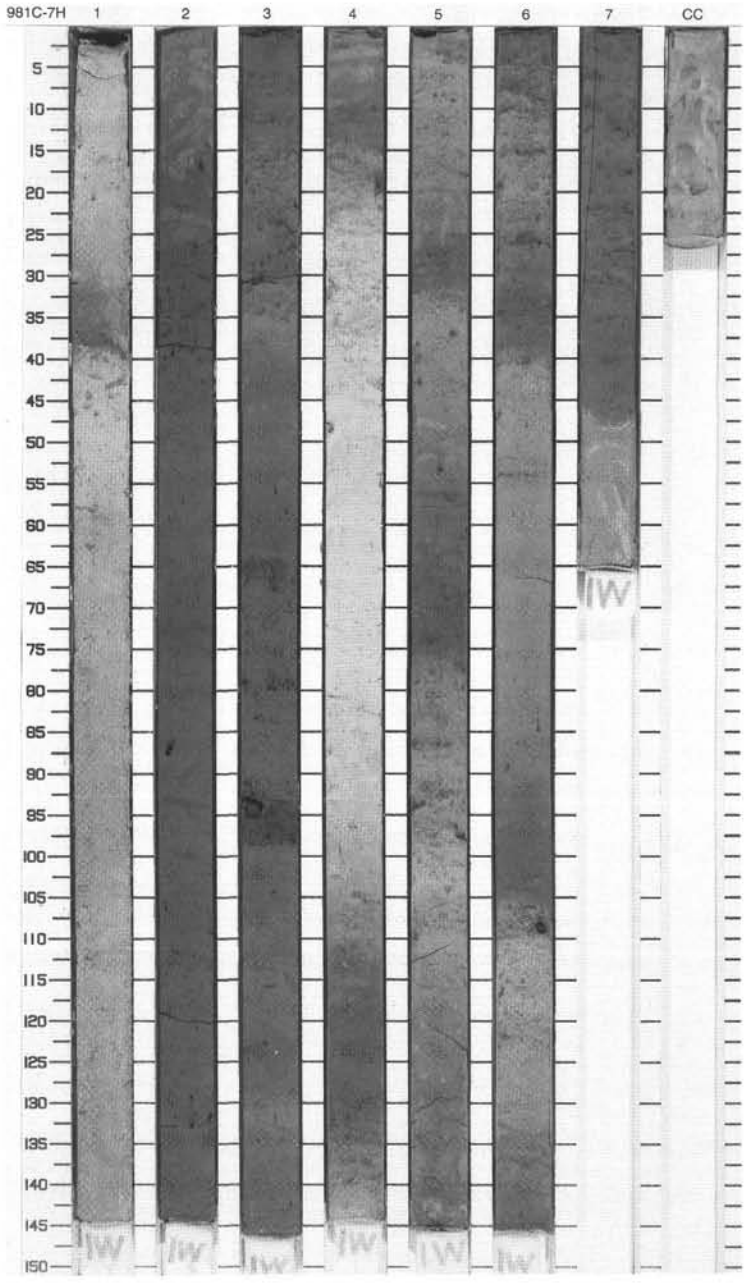
SITE 981 HOLE C CORE 6H CORED 43.7 - 53.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene				5Y 4/1	SNANNOFOSSIL OOZE WITH CLAY and NANNOFOSSIL OOZE WITH FORAMINIFERS General Description: This core contains gray (5Y 5/1) and dark gray (5Y 4/1) NANNOFOSSIL OOZE WITH CLAY alternating with light gray (5Y 7/1 and 10Y 7/1) NANNOFOSSIL OOZE WITH FORAMINIFERS. The entire core is slightly bioturbated. The sediment is firm, homogeneous, and fine-grained throughout core. Some disseminated pyrite rich layers occur in Sections 1 to 4. A subangular 1-cm-long dropstone (coal?) occurs at 123 cm in Section 1 and a 1-cm-sized vesicular basalt dropstone is present at 26 cm in Section 6.
		2					10Y 7/1	
		3					5Y 5/1	
		4					5Y 4/1	
							5Y 5/1	
		5					10Y 7/1	
		6					5Y 4/1 To 5Y 5/1	
							10Y 7/1	
		7					5Y 5/1	
		CC						

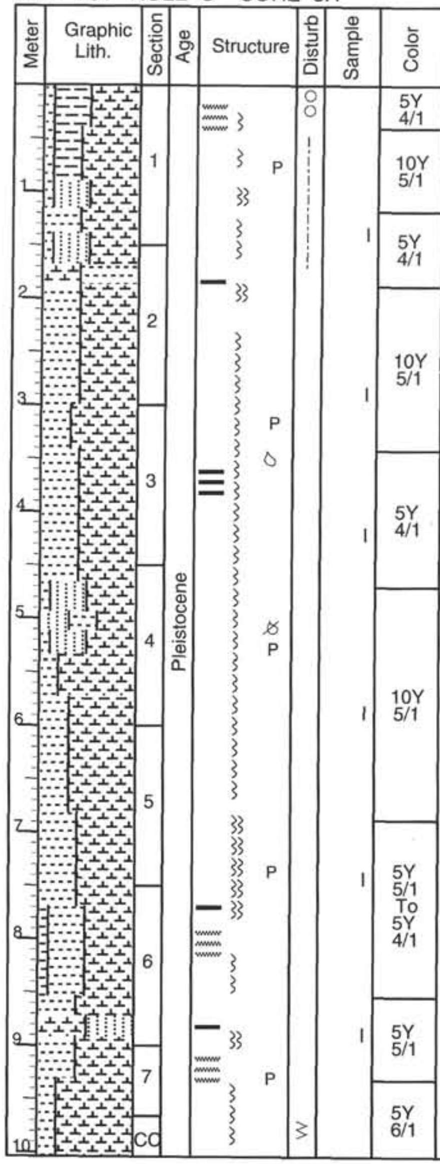


SITE 981 HOLE C CORE 7H CORED 53.2 - 62.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene	P		I	5Y 4/1	NANNOFOSSIL OOZE WITH CLAY and CLAYEY NANNOFOSSIL MIXED SEDIMENT General Description: This core contains light gray (5Y 7/1) NANNOFOSSIL OOZE WITH CLAY alternating with gray (5Y 6/1) to dark gray (5Y 4/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT. Small disseminated blebs of pyrite are dispersed throughout the entire core. A pyritized long burrow is situated in Section 6, 109–110 cm. Some distinct greenish layers occur in Section 3. A 2-cm-diameter black angular dropstone (gabbro) is present in Section 3, 94–96 cm.
							5Y 6/1	
		2		P				
						I	5Y 4/1	
		3		◇				
				P		I		
		4					5Y 7/1	
						I	5Y 4/1	
				P			5Y 6/1	
		5					5Y 4/1	
				P		I	5Y 6/1	
		6		Ⓟ		I	5Y 7/1	
		7					5Y 4/1	
		CC			WWW	I	5Y 6/1	



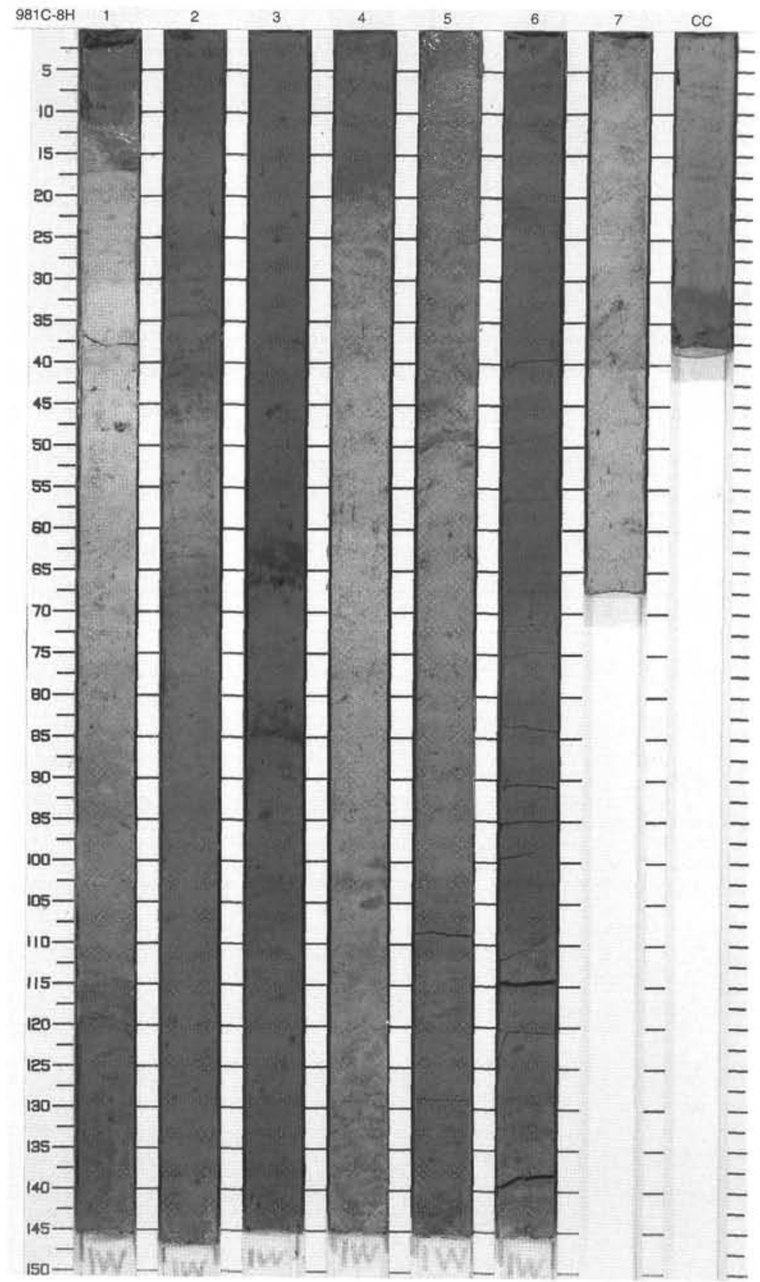
SITE 981 HOLE C CORE 8H CORED 62.7 - 72.2 mbsf



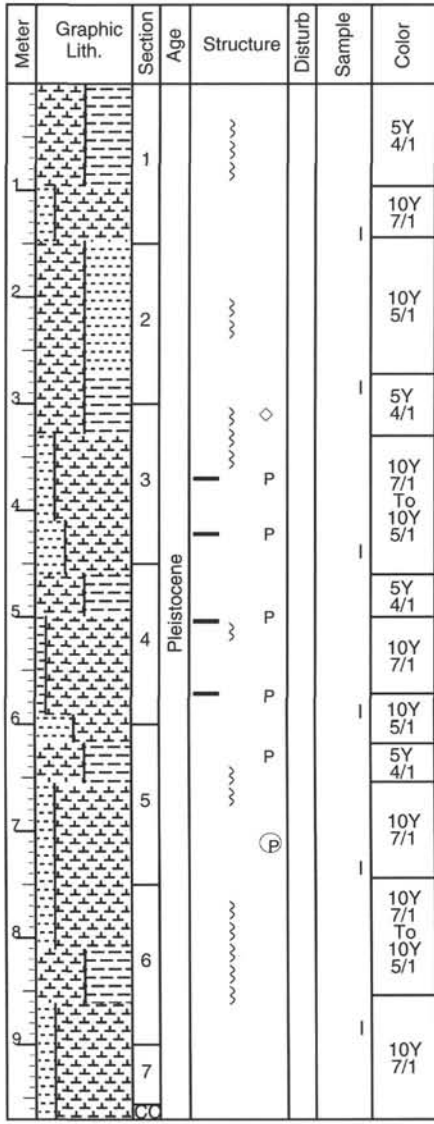
Description

NANNOFOSSIL OOZE and CLAYEY NANNOFOSSIL MIXED SEDIMENT

General Description:
This core contains gray (5Y 6/1 and 10Y 6/1) NANNOFOSSIL OOZE interbedded gray (5Y 5/1) to dark gray (5Y 4/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT. Disseminated pyrite occurs in thin black layers throughout the core. Some poorly defined greenish layers occur in sections 1, 6, and 7. A *shell* is present at Section 3, 45 cm, and a shell fragment is present in Section 4, 30 cm. There are some silty and sandy intervals throughout entire core. Both top and bottom of the core are disturbed.



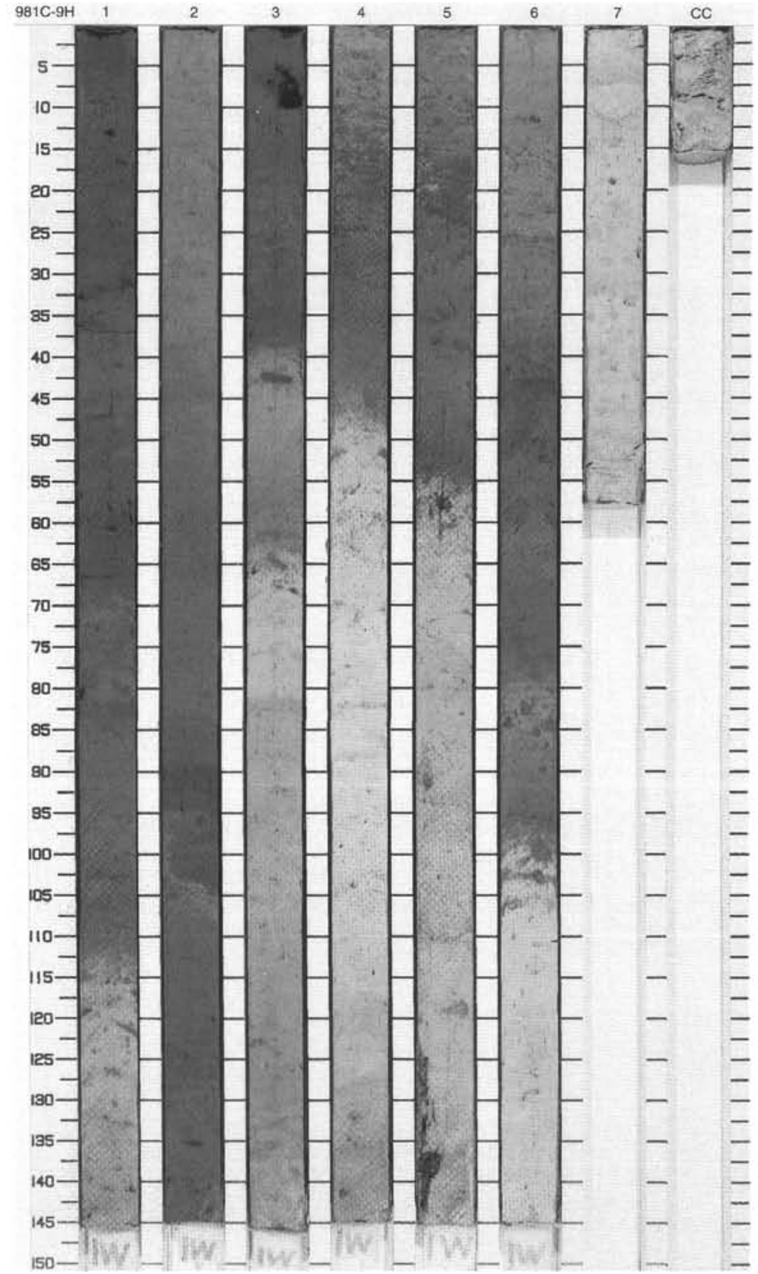
SITE 981 HOLE C CORE 9H CORED 72.2 - 81.7 mbsf



Description

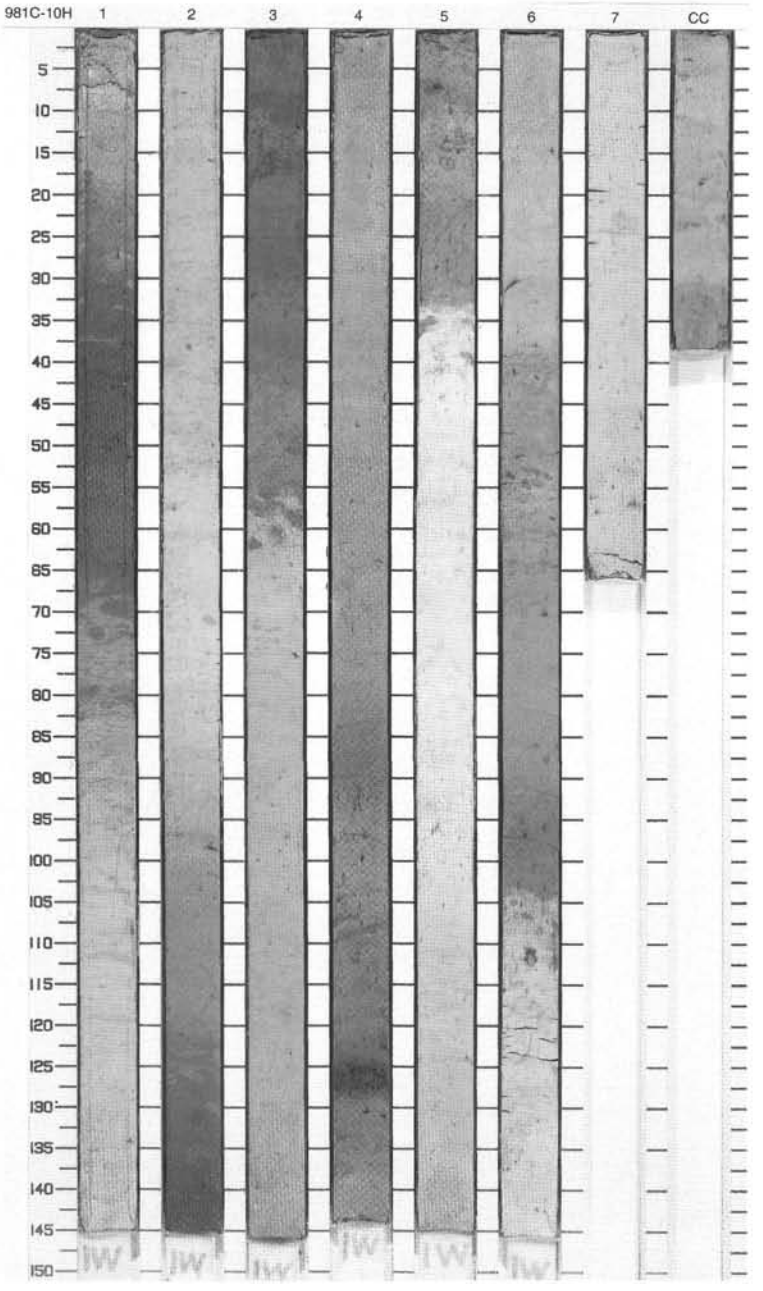
NANNOFOSSIL OOZE and
NANNOFOSSIL MIXED SEDIMENT

General Description:
This core contains light gray (10Y 7/1) NANNOFOSSIL OOZE interbedded with gray to dark gray (5Y 5/1 to 5Y 4/1) NANNOFOSSIL MIXED SEDIMENT. The entire core is firm, homogeneous, and slightly bioturbated throughout. Few disseminated pyrite blebs and thin faint pyrite-rich layers are present in Sections 3 to 5. A 3-cm-long pyrite nodule is present at 135 cm in Section 5. A 3-cm-long dark, angular welded tuff dropstone is situated at 8 cm in Section 3.



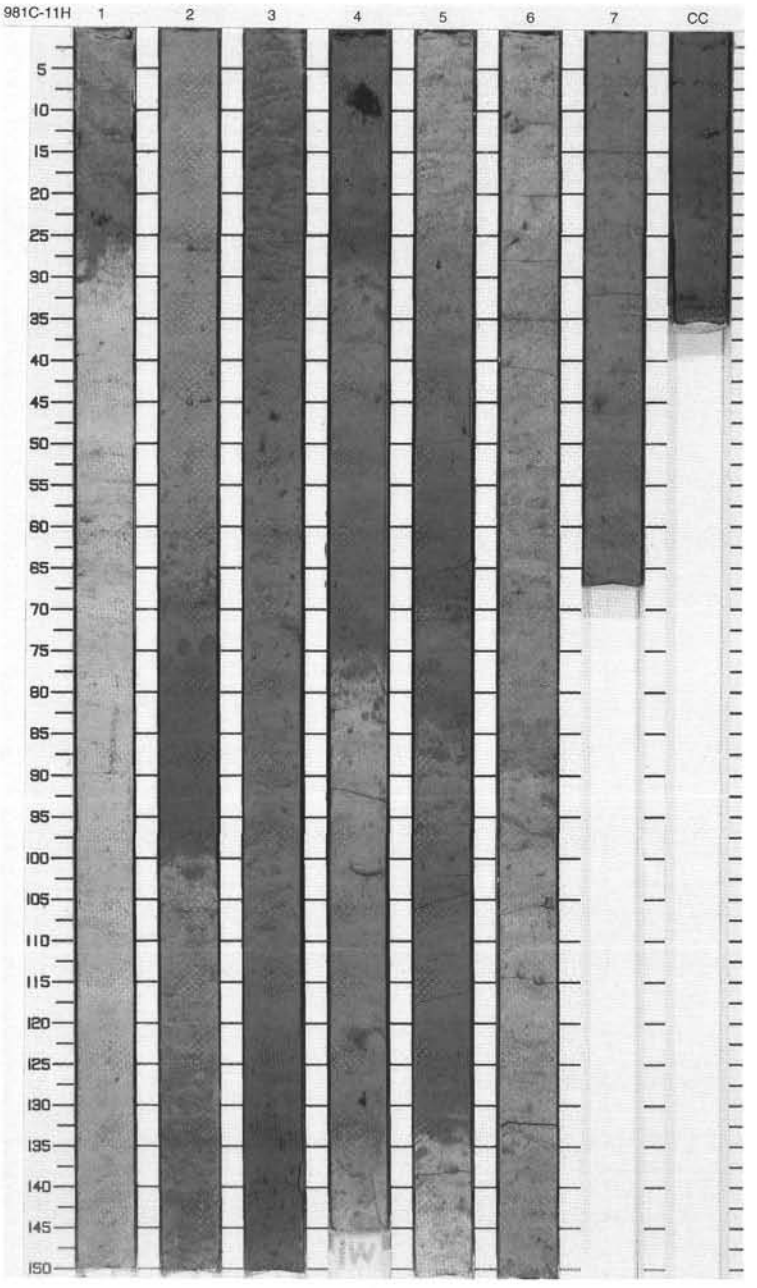
SITE 981 HOLE C CORE 10H CORED 81.7 - 91.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–10		1	Pleistocene				5Y 5/1	NANNOFOSSIL OOZE and CLAYEY SILTY SEDIMENT General Description: This core contains light gray (10Y 6/1 and 5Y 6/1) NANNOFOSSIL OOZE interbedded with gray (5Y 5/1) to dark gray (5Y 4/1) CLAYEY SILTY SEDIMENT. Disseminated blebs of pyrite and greenish layers occur throughout the entire core. Some layers are more silty, especially in the uppermost 3 sections of the core and within Section 6.
						I	5Y 6/1	
		2		P				
						I	5Y 5/1 To 5Y 4/1	
		3					5Y 6/1	
						I	5Y 5/1	
		4		P		I		
		5				I	10Y 6/1	
		6					5Y 5/1 To 5Y 4/1	
						I	10Y 6/1	
		7						
		CC						



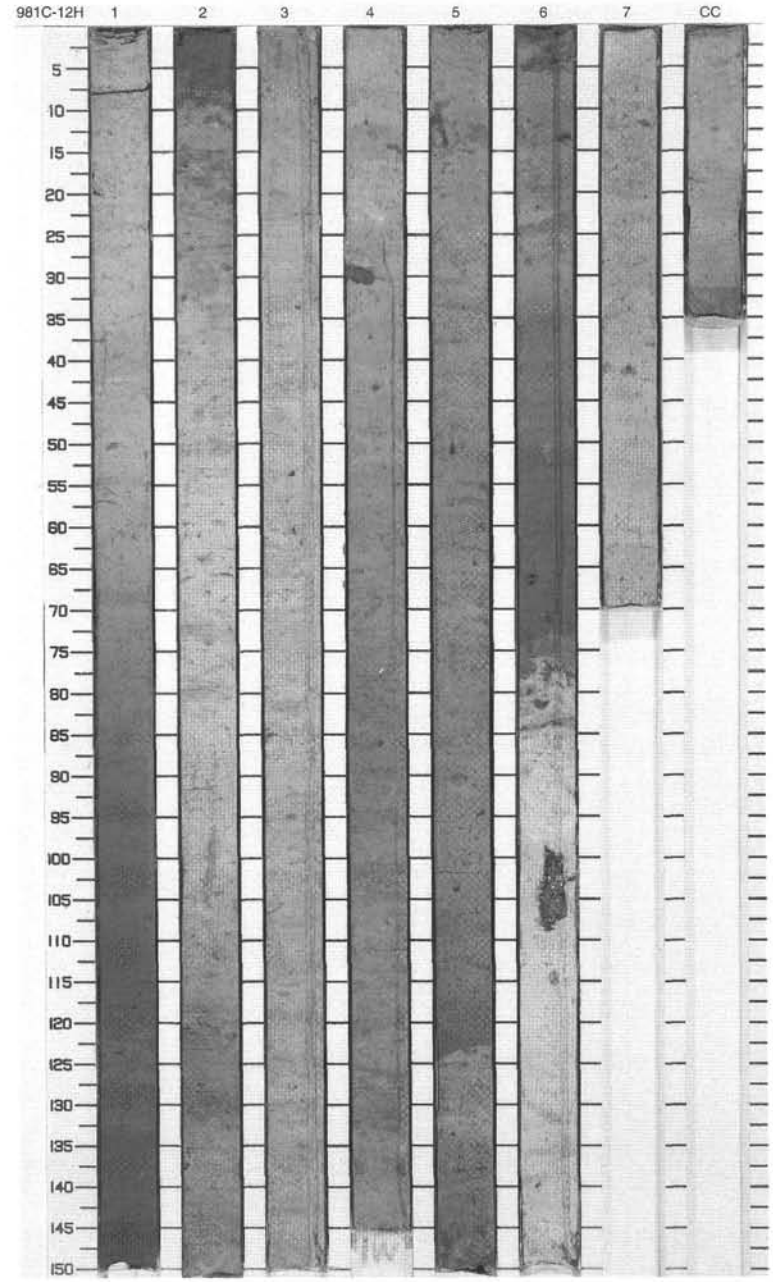
SITE 981 HOLE C CORE 11H CORED 91.2 - 100.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–10		1	late Pliocene–Pleistocene	Ⓟ, P			5Y 4/1; 5Y 7/1	NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY and CLAYEY NANNOFOSSIL MIXED SEDIMENT General Description: This core contains light gray (5Y 7/1) NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY and gray (5Y 5/1) to dark gray (5Y 4/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT. Two cm-wide black pyrite nodules are present in Sections 1 and 4. Small disseminated blebs of pyrite are sparsely dispersed throughout the entire core.
		2		P			5Y 5/1; 5Y 4/1	
		3		P			5Y 5/1; 5Y 4/1	
		4		Ⓟ, P		I	5Y 5/1; 5Y 7/1	
		5		P			5Y 4/1	
		6		P			5Y 7/1 To 5Y 5/1; 5Y 7/1 To 5Y 5/1	
		7		P			5Y 4/1	
		CC						



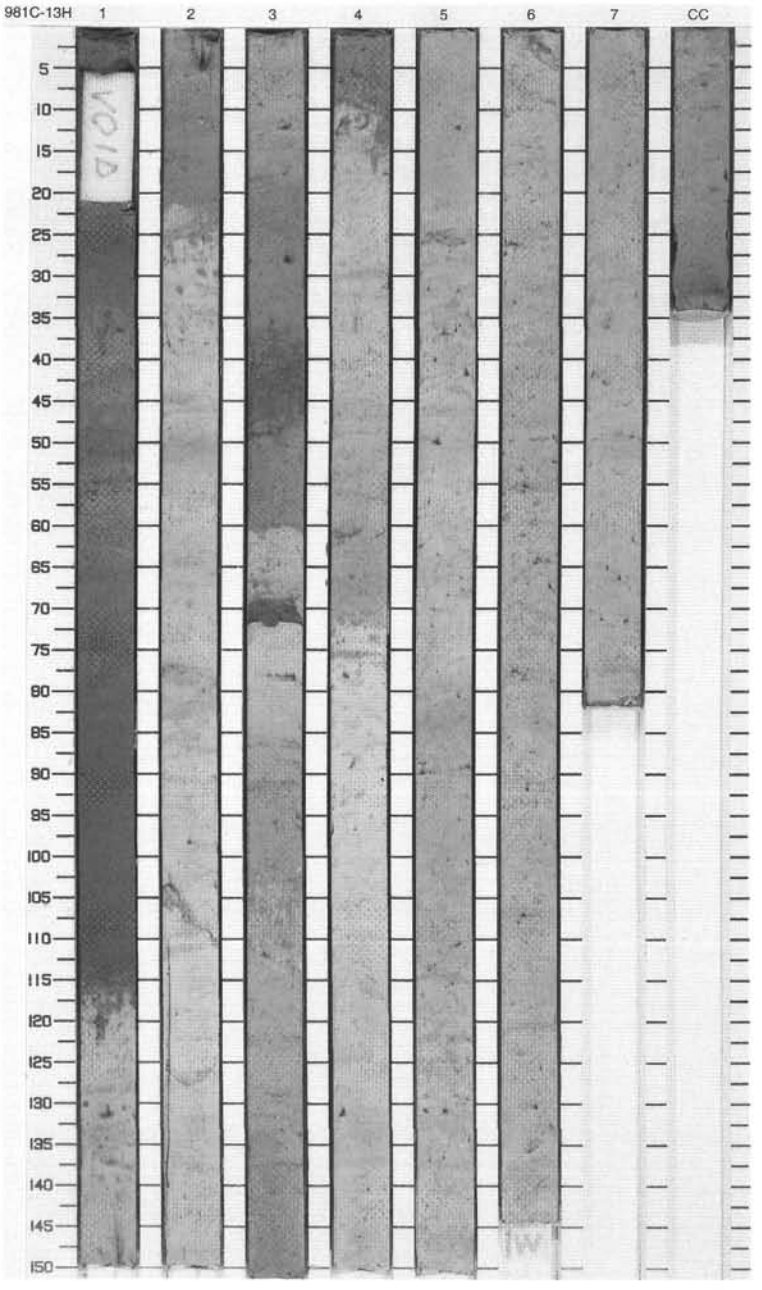
SITE 981 HOLE C CORE 12H CORED 100.7 - 110.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–10		1	late Pliocene–Pleistocene				5Y 5/1 To 5Y 4/1	NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY and CLAYEY NANNOFOSSIL MIXED SEDIMENT General Description: This core contains light greenish gray (10Y 6/1) NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY interbedded with gray to dark gray (5Y 5/1 to 5Y 4/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT. Light bioturbation is evident throughout, and moderate bioturbation occurs at the color transition in Section 6. Faint green bands occur in Sections 1 through 6, and sulfides are disseminated throughout.
		2		S			10Y 6/1	
		3		P				
		4				I	5Y 5/1	
		5		S			5Y 4/1	
		6		S			10Y 6/1	
		7						
		CC						



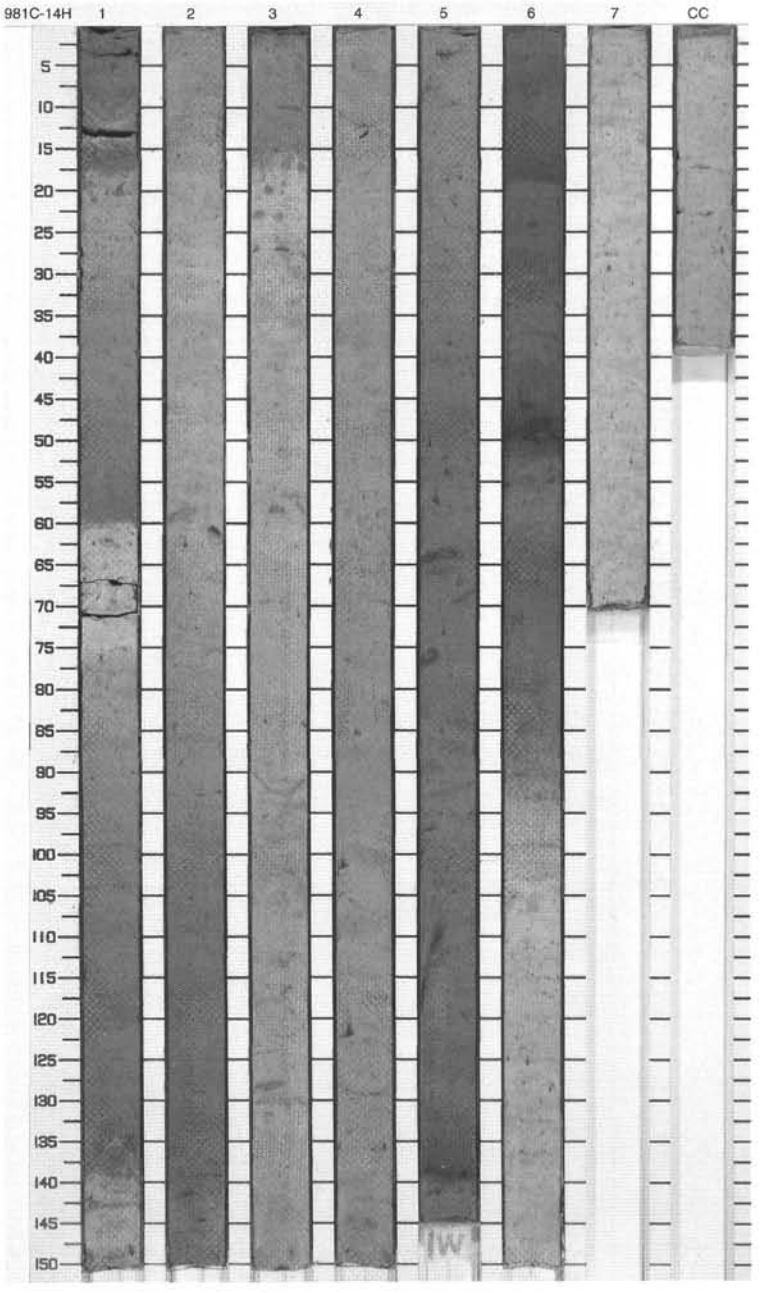
SITE 981 HOLE C CORE 13H CORED 110.2 - 119.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–10	Void	1–7, CC	late Pliocene	P		I	5Y 4/1; 5Y 6/1; 10Y 6/1; 10Y 4/1; 5GY 6/1; 5Y 6/1	NANNOFOSSIL OOZE WITH CLAY and CLAYEY NANNOFOSSIL MIXED SEDIMENT General Description: This core contains gray to light greenish gray (5Y 6/1 to 10Y 6/1) NANNOFOSSIL OOZE WITH CLAY alternating with gray to dark gray (5Y 5/1 to 5Y 4/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT. The color changes are gradational. Pyrite is disseminated throughout the entire core. Slight bioturbation occurs in each section. A foraminifer-rich layer occurs in the uppermost part of Section 3.



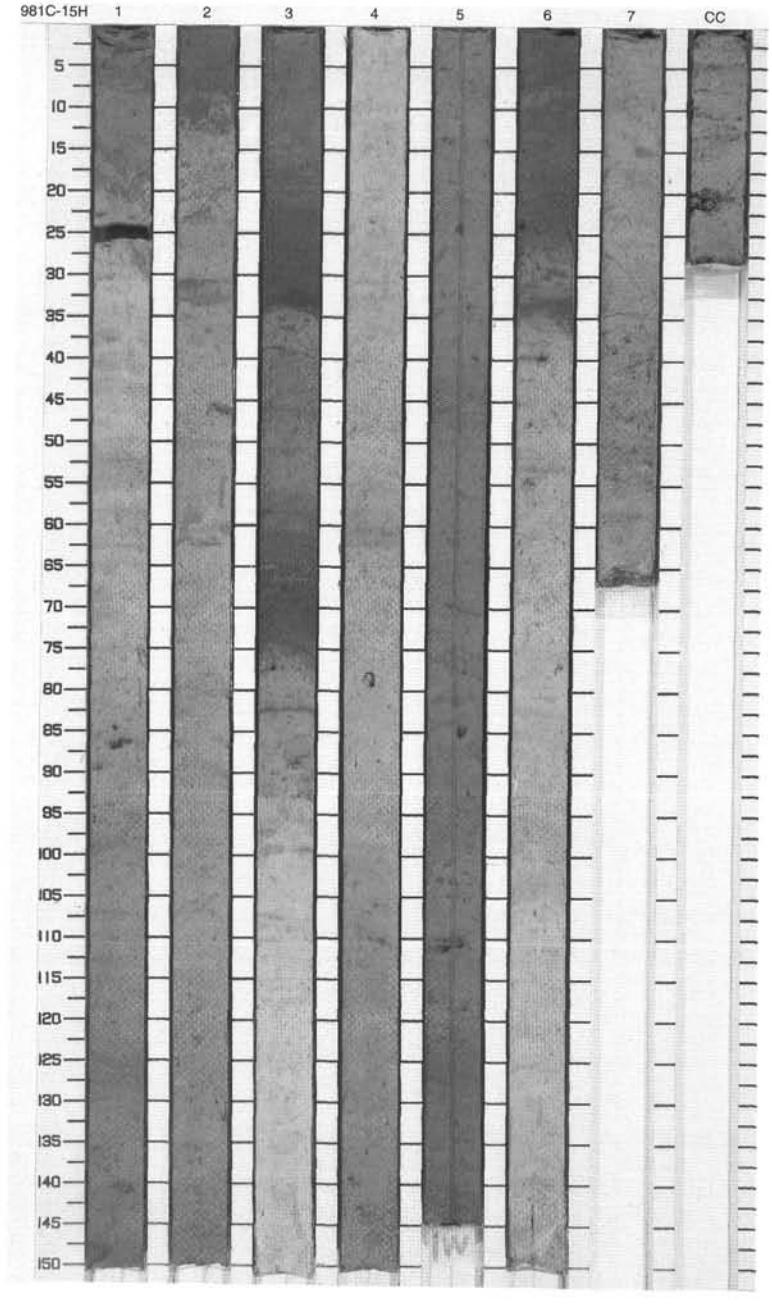
SITE 981 HOLE C CORE 14H CORED 119.7 - 129.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–10		1	late Pliocene	P			5Y 5/1	NANNOFOSSIL OOZE WITH CLAY and SILTY CLAY WITH NANNOFOSSILS General Description: This core contains light gray (10Y 6/1) NANNOFOSSIL OOZE WITH CLAY interbedded with gray (5Y 5/1) SILTY CLAY WITH NANNOFOSSILS. In addition, silty clay with sand and nannofossils occur at both the topmost 20 cm of the core and in the interval Section 5, 120 cm to Section 6, 90 cm. All color changes are gradational. Disseminated pyrite occurs in burrows except of two bands at Section 6, 16–19 cm, and 110–113 cm.
				P			10Y 6/1	
				P			5Y 5/1	
		2		P			10Y 6/1	
				P			5Y 5/1	
		3		P			10Y 6/1	
		4		P				
				P				
				P				
		5		P			5Y 5/1	
				P				
				P		I		
		6		P			5Y 4/1	
				P				
		7					10Y 6/1	
		CC				M		



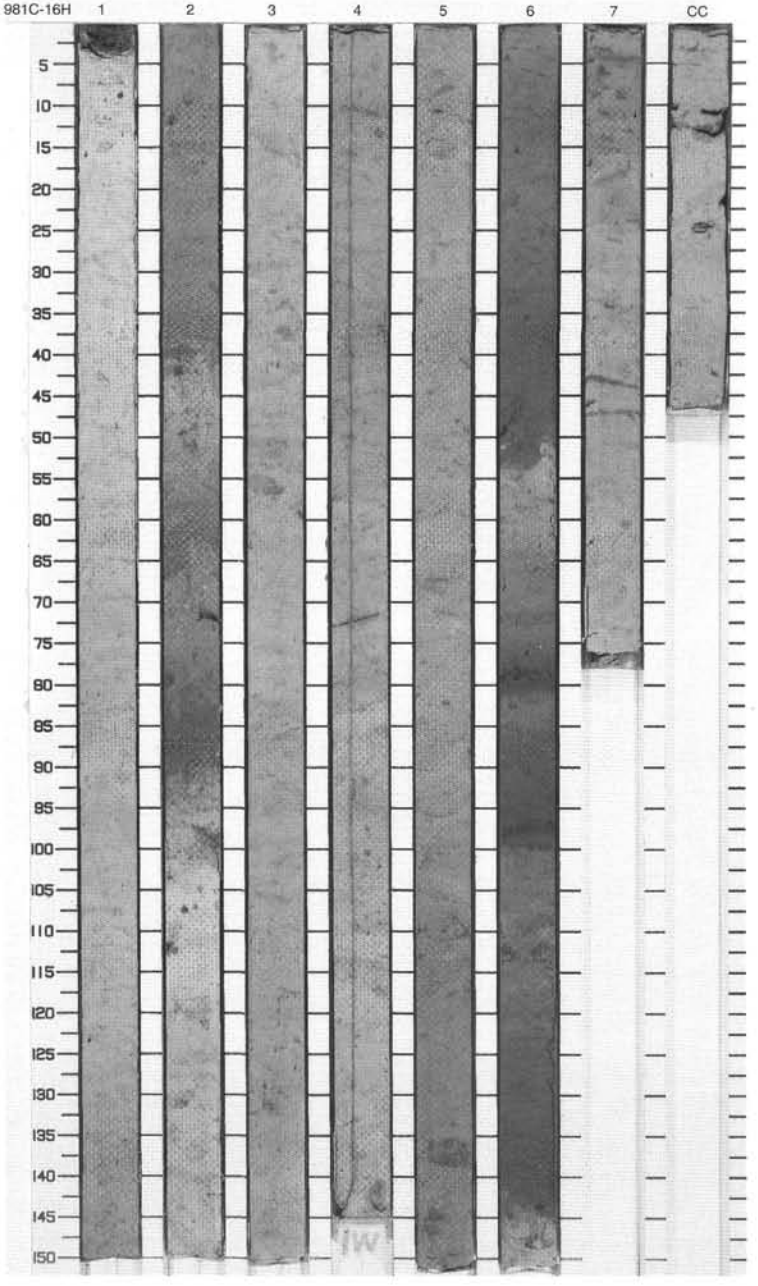
SITE 981 HOLE C CORE 15H CORED 129.2 - 138.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	late Pliocene	P			10Y 6/1 To 10Y 7/1	NANNOFOSSIL OOZE and NANNOFOSSIL OOZE WITH CLAY General Description: This core contains light greenish gray to white (10Y 6/1 to 10Y 8/1) NANNOFOSSIL OOZE alternating with dark gray (10Y 4/1 to 10Y 5/1) NANNOFOSSIL OOZE WITH CLAY. The entire core is slightly to moderately bioturbated. Disseminated and concrete pyrite occurs in several layers. Color changes are gradational but bioturbated. A dropstone (granite) is recognized at Section 7, 20 cm (<1.5 cm).
		2						
		3					10Y 5/1	
		4		Ⓟ			10Y 7/1 To 10Y 8/1	
		5		Ⓟ			10Y 6/1	
		6		P			10Y 4/1	
		7					10Y 6/1	
		CC						



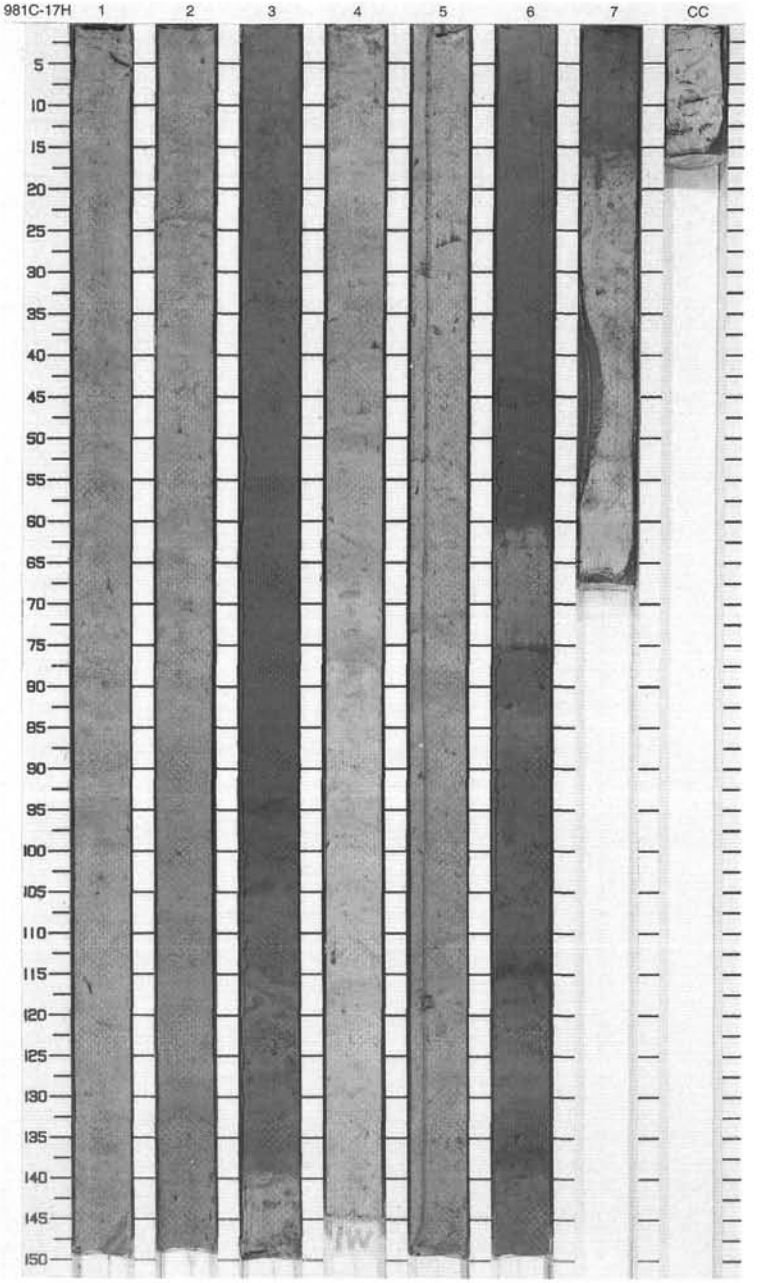
SITE 981 HOLE C CORE 16H CORED 138.7 - 148.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	late Pliocene				5Y 6/1 To 5Y 4/1	NANNOFOSSIL OOZE WITH CLAY, NANNOFOSSIL CLAY MIXED SEDIMENT and NANNOFOSSIL CLAY General Description: This core contains gray (5Y 6/1) NANNOFOSSIL OOZE WITH CLAY alternating with gray to dark gray (5Y 5/1 to 5Y 4/1) NANNOFOSSIL CLAY MIXED SEDIMENT and gray to dark gray (5Y 5/1 to 5Y 4/1) NANNOFOSSIL CLAY. The entire core is slightly color mottled. Pyrite occurs both in disseminated thin horizons and filled burrows. Color changes are gradational and bioturbated. Bioturbation is slight to moderate throughout the core.
2		2						
3		3					5Y 6/1 To 5Y 5/1	
4		4				I		
5		5						
6		6					5Y 4/1	
7		7					5Y 6/1	
8		CC					5Y 4/1	
9							5Y 6/1	
10								



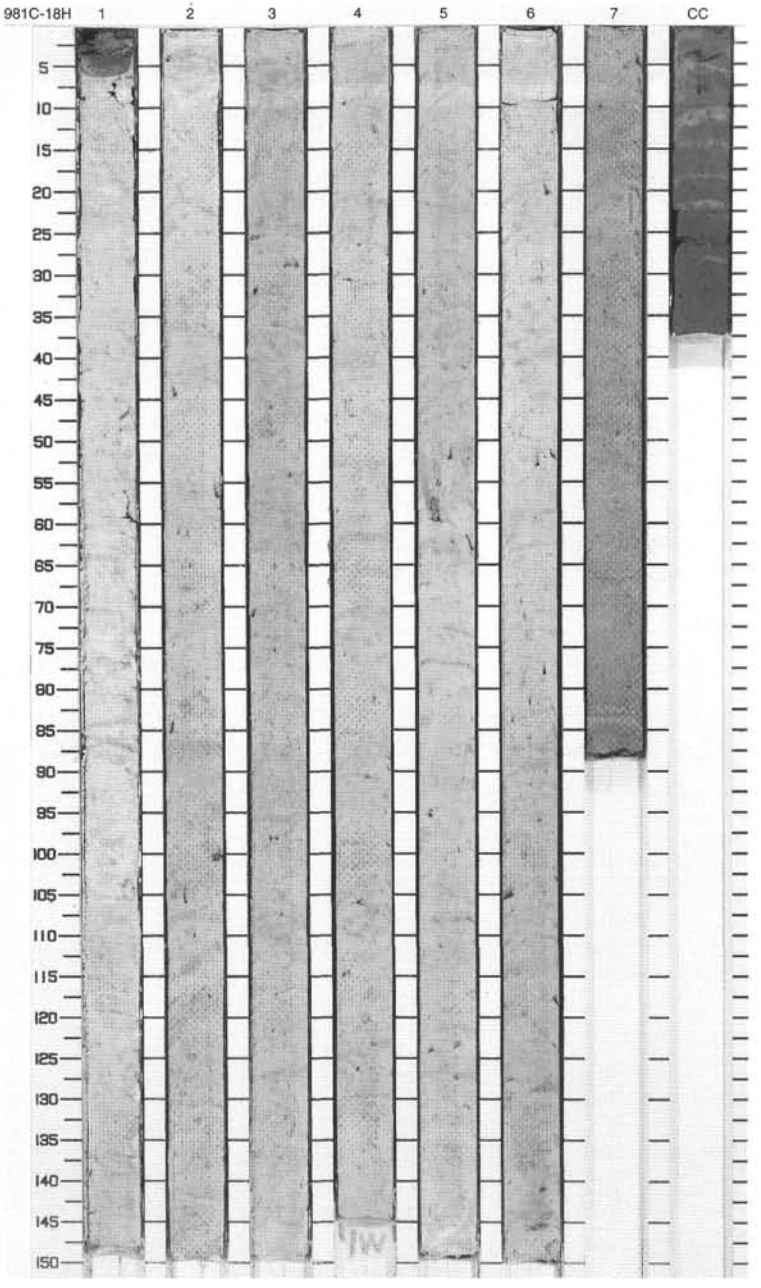
SITE 981 HOLE C CORE 17H CORED 148.2 - 157.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–7, CC	late Pliocene				10Y 6/1; 10Y 5/1; 5Y 4/1; 10Y 6/1; 10Y 5/1; 10Y 6/1	CLAYEY NANNOFOSSIL OOZE and CLAY WITH NANNOFOSSILS General Description: The core contains light greenish gray (10Y 6/1) CLAYEY NANNOFOSSIL OOZE gradually changing to dark greenish gray (10Y 5/1) and dark gray (5 Y4/1) CLAY WITH NANNOFOSSILS, and one minor interval of gray (10Y 5/1) SILTY CLAY WITH NANNOFOSSILS. Four black layers occur and three of them are in Section 6, where they are part of cyclic color transitions. Two other large color and lithologic transitions occur spanning most of the core, from Section 6, 76 cm to Section 3, 140 cm, and Section 4, 140 cm to the top. There is a 2-mm-thick clayey silt layer in Section 6 at 76 cm. Pyrite is disseminated throughout and in Section 5, 115 cm, there is a 3-cm-long pyritized burrow.



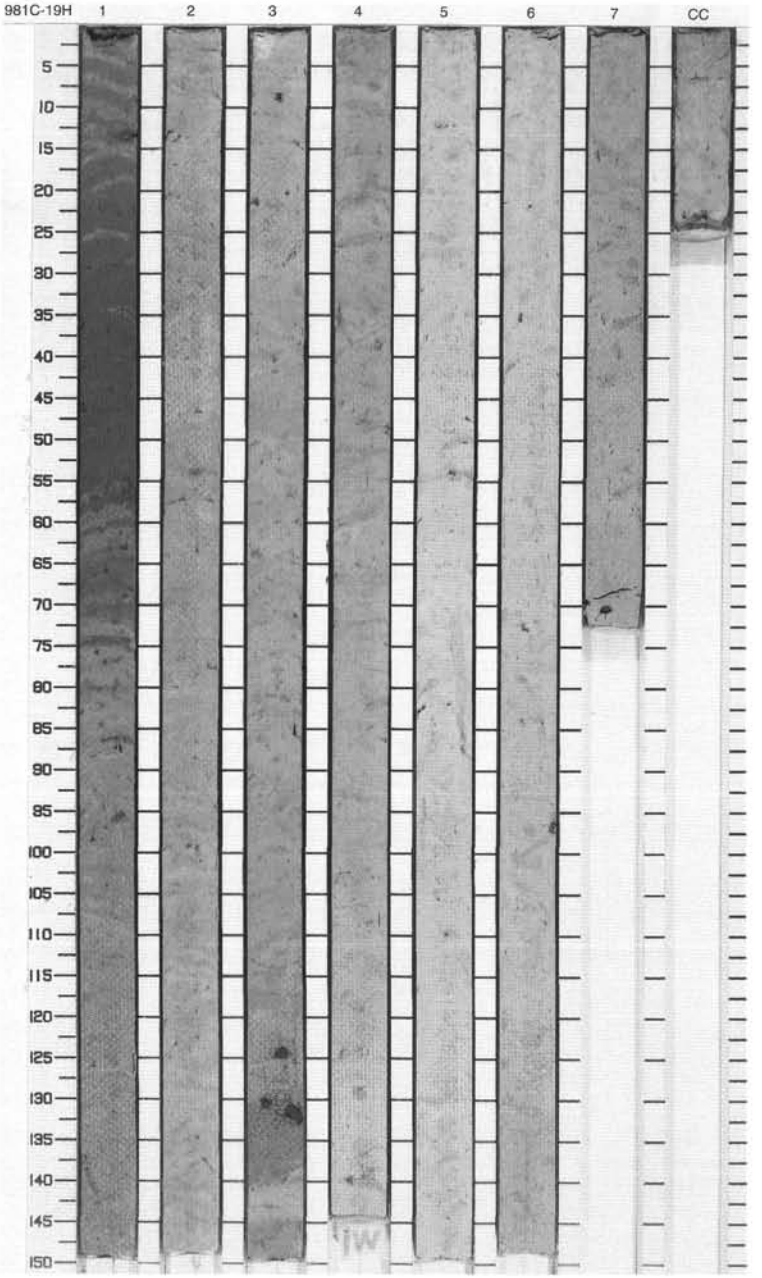
SITE 981 HOLE C CORE 18H CORED 157.7 - 167.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–10		1–7, CC	late Pliocene	P; (P); (P); (P); P; P; P		I	5Y 7/1 To 5Y 8/1; 5Y 4/1 To 5Y 5/1	NANNOFOSSIL OOZE and NANNOFOSSIL OOZE WITH CLAY General Description: This core contains light gray to white (5Y 7/1 to 5Y 8/1) NANNOFOSSIL OOZE and dark gray to gray (5Y 4/1 to 5Y 5/1) NANNOFOSSIL OOZE WITH CLAY. The uppermost part of the core contains a sharp color contact. All other color changes are gradational. Slight bioturbation occurs throughout the core. Pyrite occurs as disseminated blebs and as concretions.



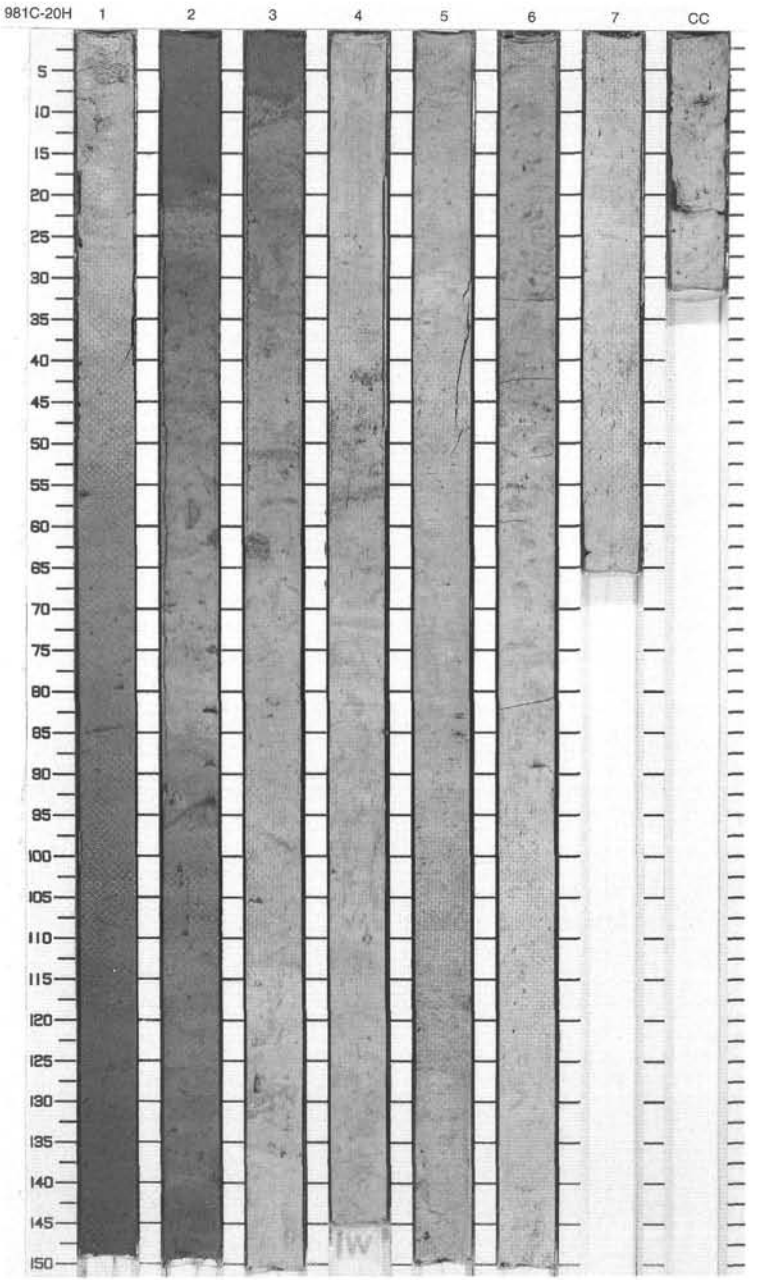
SITE 981 HOLE C CORE 19H CORED 167.2 - 176.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	late Pliocene				5GY 4/1	NANNOFOSSIL OOZE WITH DIATOMS AND CLAY
2		2					10Y 5/1 To 5GY 6/1	General Description: This core contains gray (10Y 5/1) to light greenish gray (5GY 6/1) NANNOFOSSIL OOZE WITH DIATOMS AND CLAY. All color changes are gradational, and the entire core is faintly mottled. Slight to moderate bioturbation occurs in all sections. Pyrite is disseminated throughout the core, and occurs as concretions in Sections 3, 6, and 7.
3		3						
4		4						
5		5				1	5GY 6/1	
6		6						
7		7						
		CC						



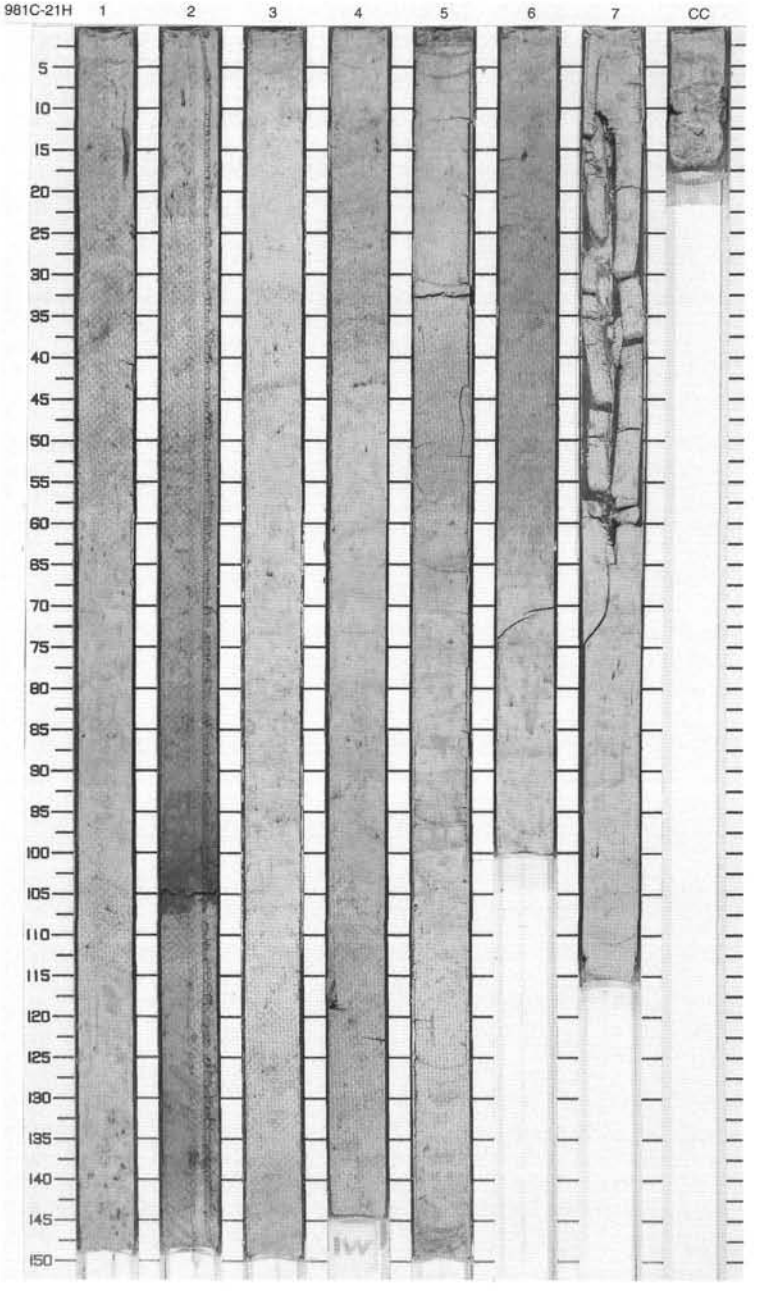
SITE 981 HOLE C CORE 20H CORED 176.7 - 186.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	late Pliocene	P			10Y 6/1	NANNOFOSSIL OOZE WITH CLAY General Description: This core contains light greenish gray to dark greenish gray (10Y 6/1 and 10Y 5/1) NANNOFOSSIL OOZE WITH CLAY with minor dark greenish gray (10Y 4/1) CLAYEY NANNOFOSSIL OOZE and dark greenish gray (10Y 5/1) CLAYEY NANNOFOSSIL OOZE WITH SILT (Section 4, 40–60 cm). Pyrite is disseminated throughout and bioturbation is moderate. Poorly defined greenish layers are common in Section 2, occuring at 95, 115, 125, 127, 134, and 141 cm, and at the top of Section 3, at 14 cm.
							10Y 5/1	
							10Y 4/1	
		2		P P			10Y 5/1	
							10Y 4/1	
		3		P			10Y 5/1	
		4		P				
		5				I	10Y 6/1	
		6					10Y 5/1	
		7					10Y 6/1	
		CC						



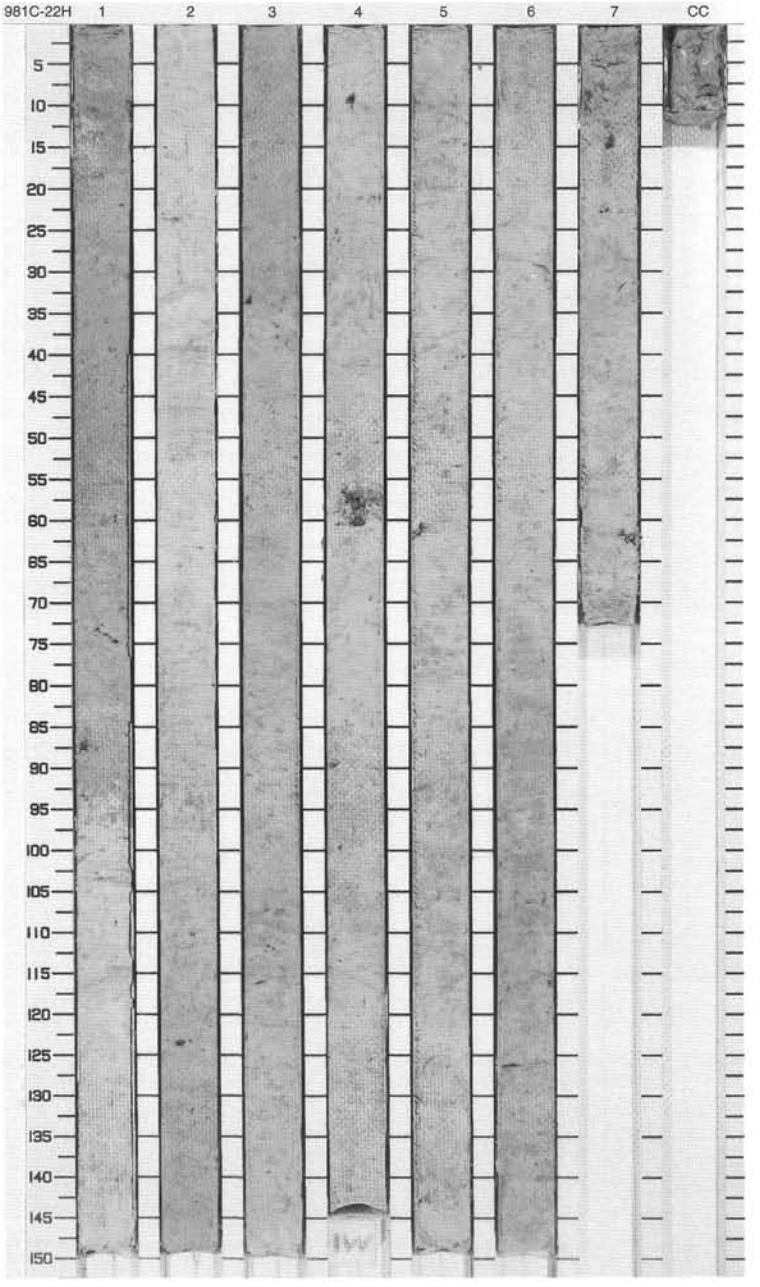
SITE 981 HOLE C CORE 21H CORED 186.2 - 195.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–10		1–7, CC	late Pliocene		I	I	5GY 6/1 To 5GY 7/1; 10Y 5/1; 5GY 6/1 To 5GY 7/1; 5GY 7/1; 5GY 6/1	NANNOFOSSIL OOZE WITH CLAY General Description: The core contains greenish gray (5GY 6/1) to light greenish gray (5GY 7/1) NANNOFOSSIL OOZE WITH CLAY. A darker layer of gray NANNOFOSSIL OOZE WITH CLAY occurs in Section 2, 100–120 cm. All color changes are gradational. The entire core is slightly to moderately bioturbated. Sulfides are disseminated throughout the core. Faint green bands occur in Sections 4 and 5. The sediment in Section 7 is very disturbed due to an imploded liner.



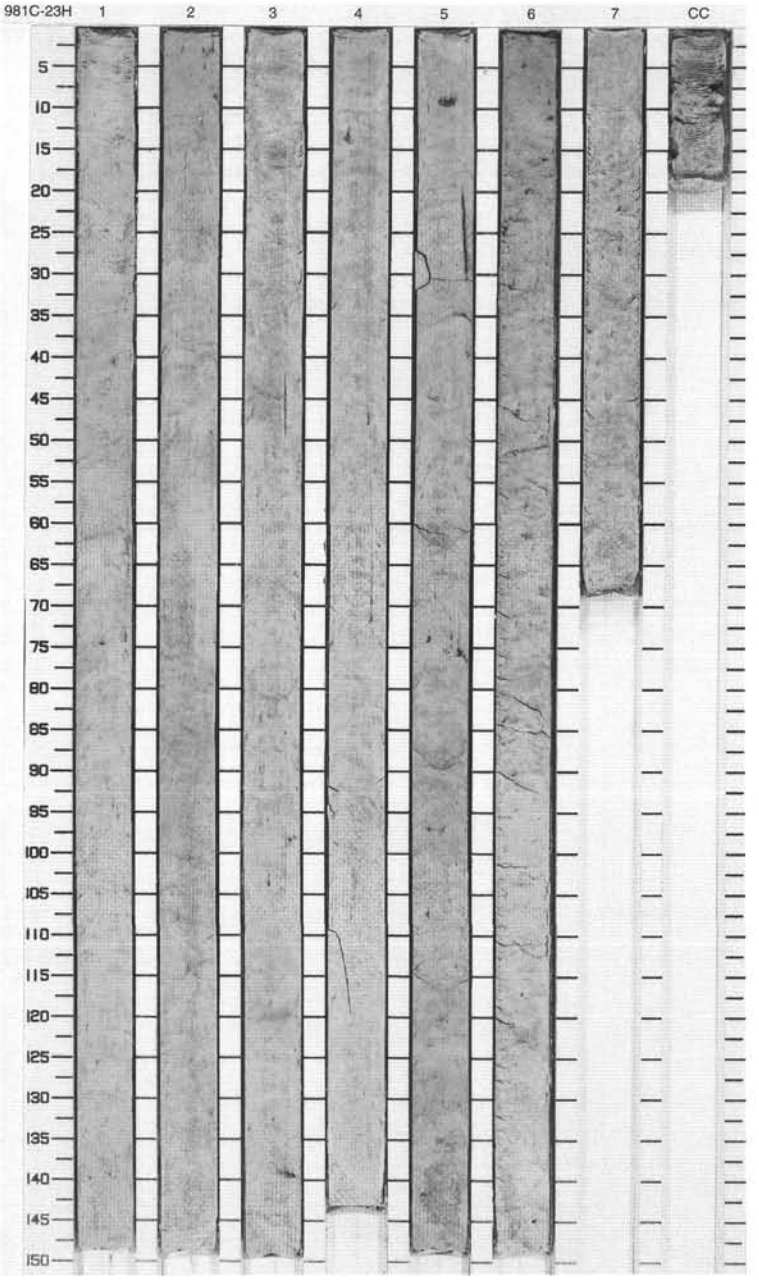
SITE 981 HOLE C CORE 22H CORED 195.7 - 205.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	late Pliocene	P, S, P, P, P, P, P, P			5GY 6/1	NANNOFOSSIL OOZE General Description: This core contains light greenish gray (5GY 7/1) to greenish gray (5GY 6/1) NANNOFOSSIL OOZE. The core is homogeneous, firm, and slightly mottled throughout. Disseminated pyrite occurs in both thin horizons and small dispersed blebs. Pyrite concretions are present at Section 4, 58–61 cm.
		2					5GY 7/1	
		3					5GY 6/1	
		4						
		5				I	5GY 7/1	
		6						
		7					5GY 6/1	
		CC		P		M		



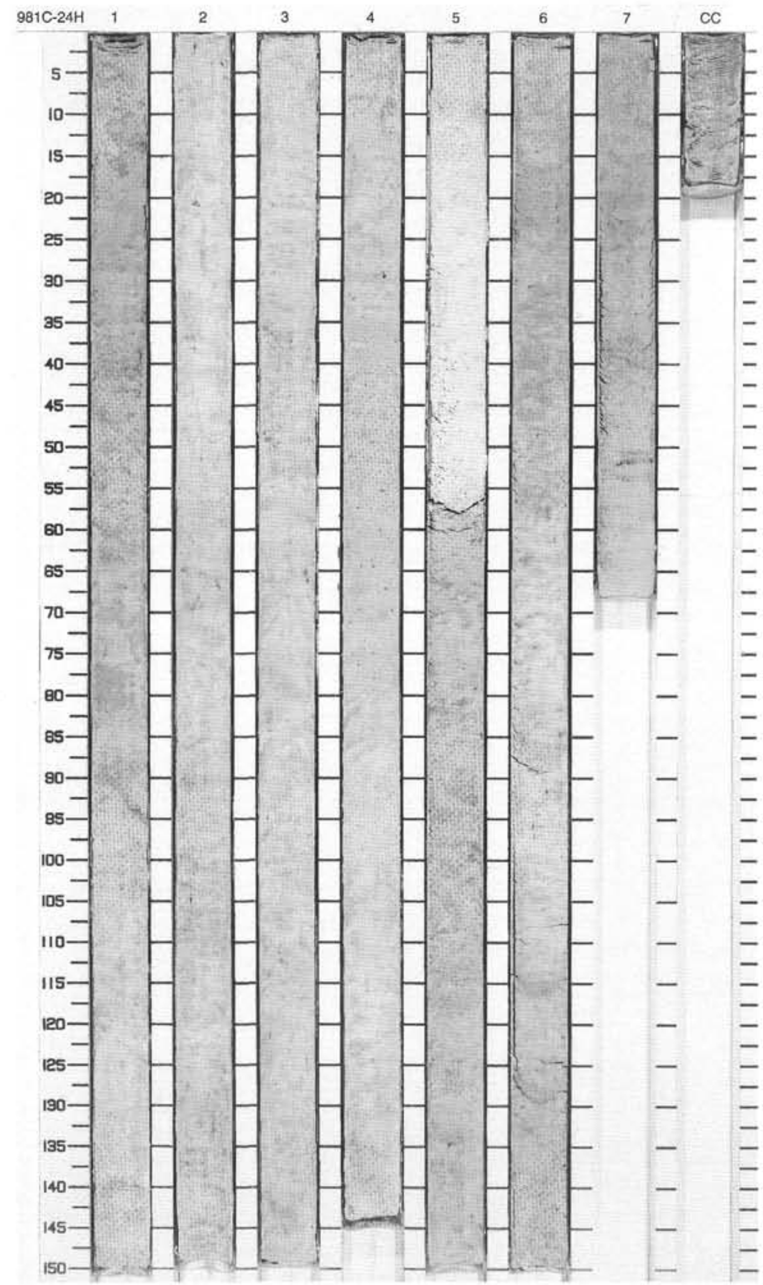
SITE 981 HOLE C CORE 23H CORED 205.2 - 214.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–7, CC	late Pliocene		W / WW	I	5GY 6/1; 10Y 5/1; 5GY 6/1	NANNOFOSSIL OOZE General Description: This core contains light greenish gray (5GY 6/1) to gray (10Y 5/1) NANNOFOSSIL OOZE. Clay, foraminifers, and spicules are minor components. The core is slightly mottled and bioturbated throughout. Pyrite is disseminated in all sections, and also occurs in discrete thin layers and nodules. Faint green color bands and subtle color variation occur throughout.



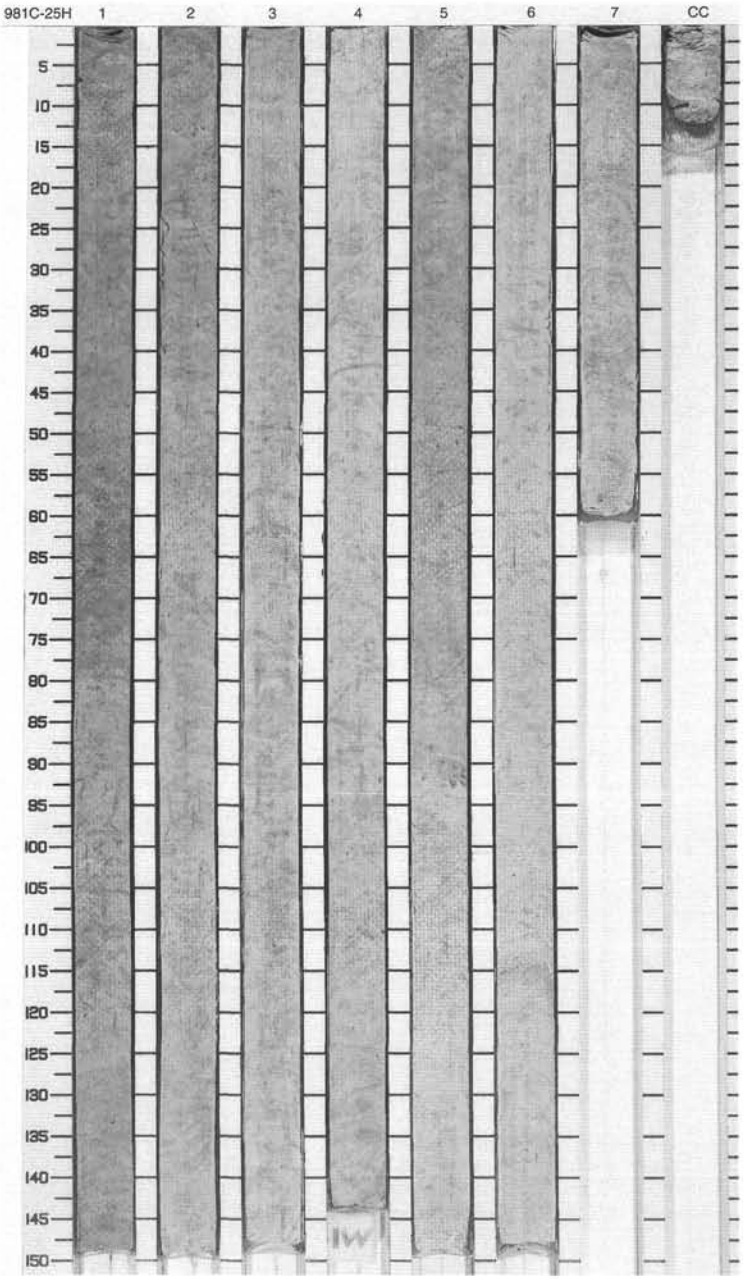
SITE 981 HOLE C CORE 24H CORED 214.7 - 224.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1, 2, 3, 4, 5, 6, 7, CC	early Pliocene–late Pliocene	P, P, P, P, P, P, P, P, (P)		I, M	5GY 7/1; 10Y 7/1; 5GY 7/1; 10Y 8/1; 5GY 6/1	NANNOFOSSIL OOZE General Description: This core contains homogeneous, firm, greenish gray (5GY 6/1) to white (10Y 8/1) NANNOFOSSIL OOZE. The core is both slightly mottled and bioturbated throughout most of the sections. Some disseminated pyrite occurs in small dispersed blebs. Faint green color bands and subtle color variation occur throughout.



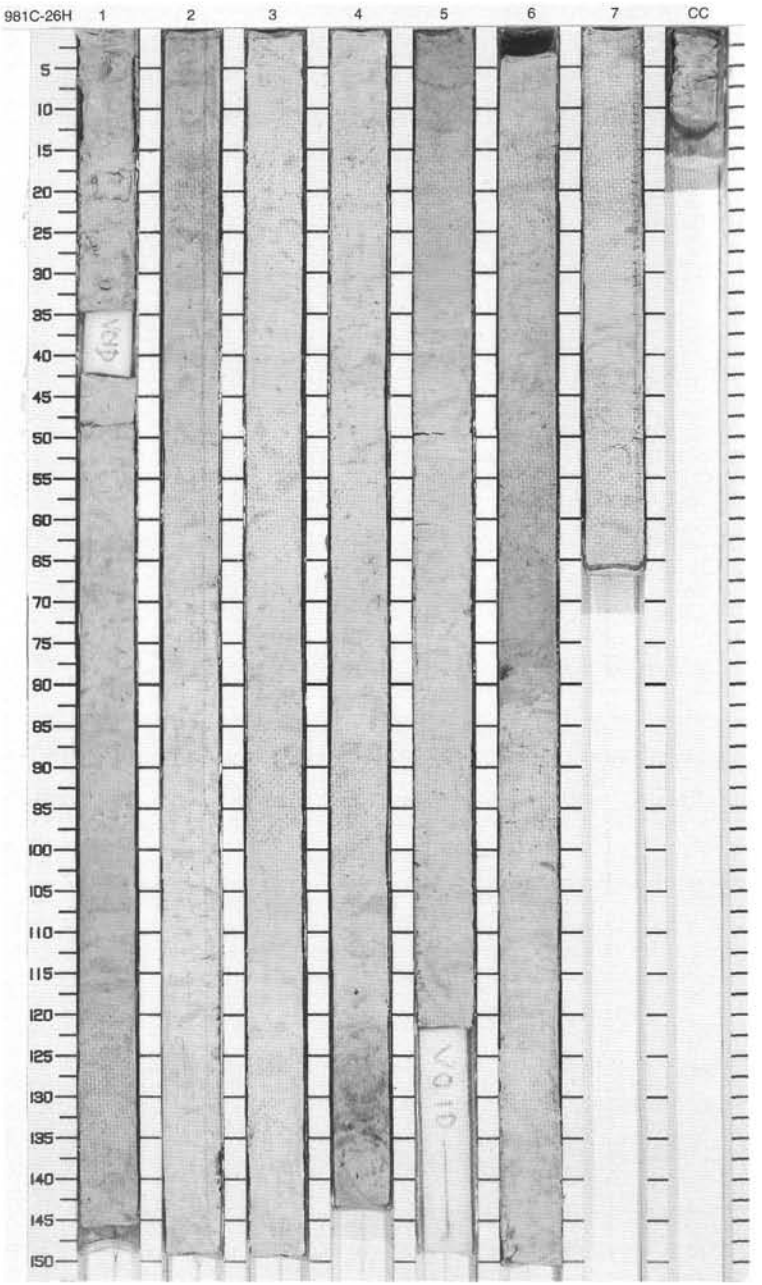
SITE 981 HOLE C CORE 25H CORED 224.2 - 233.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	early Pliocene	P			5GY 6/1	NANNOFOSSIL OOZE and NANNOFOSSIL OOZE WITH CLAY General Description: This core contains light gray to white (5Y 7/1 to 5Y 8/1) NANNOFOSSIL OOZE alternating with light greenish gray to greenish gray (5GY 6/1 to 5GY 7/1) NANNOFOSSIL OOZE WITH CLAY. Slight bioturbation occurs throughout the core, and disseminated pyrite occurs in several layers. Color changes are gradational.
				P			5Y 7/1	
		2		P			5GY 7/1	
		3		P			5Y 7/1 To 5Y 8/1	
		4		(P)				
		5		P		I	5GY 7/1	
		6		P			5Y 7/1 To 5Y 8/1	
		7						
		CC						



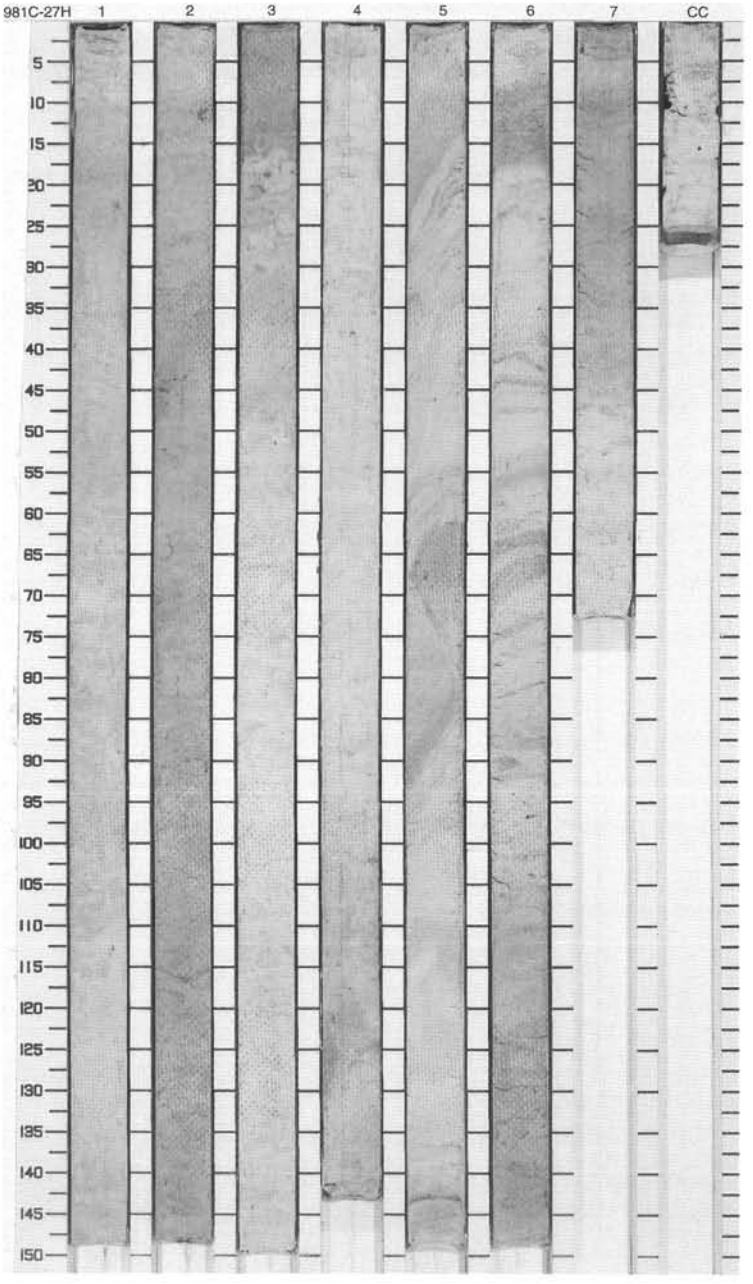
SITE 981 HOLE C CORE 26H CORED 233.7 - 243.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	Void	1	early Pliocene	P			5GY 7/1	NANNOFOSSIL OOZE General Description: This core contains homogeneous greenish gray (5GY 6/1) to white (5GY 8/1) NANNOFOSSIL OOZE. Clay, foraminifers, and spicules are minor components. The core is slightly mottled and bioturbated throughout. Some pyrite is disseminated in all sections, and also occurs in small dispersed blebs. Faint green color bands and subtle color variation occur throughout.
2		2		P			5GY 8/1	
3		3		P			5GY 7/1	
4		4		P				
5				P			5G 6/1	
6				P		I		
7		5		P			5GY 7/1	
	Void							
8		6		P			5GY 6/1	
9				P			5GY 7/1	
		7		P				
		CC				M		



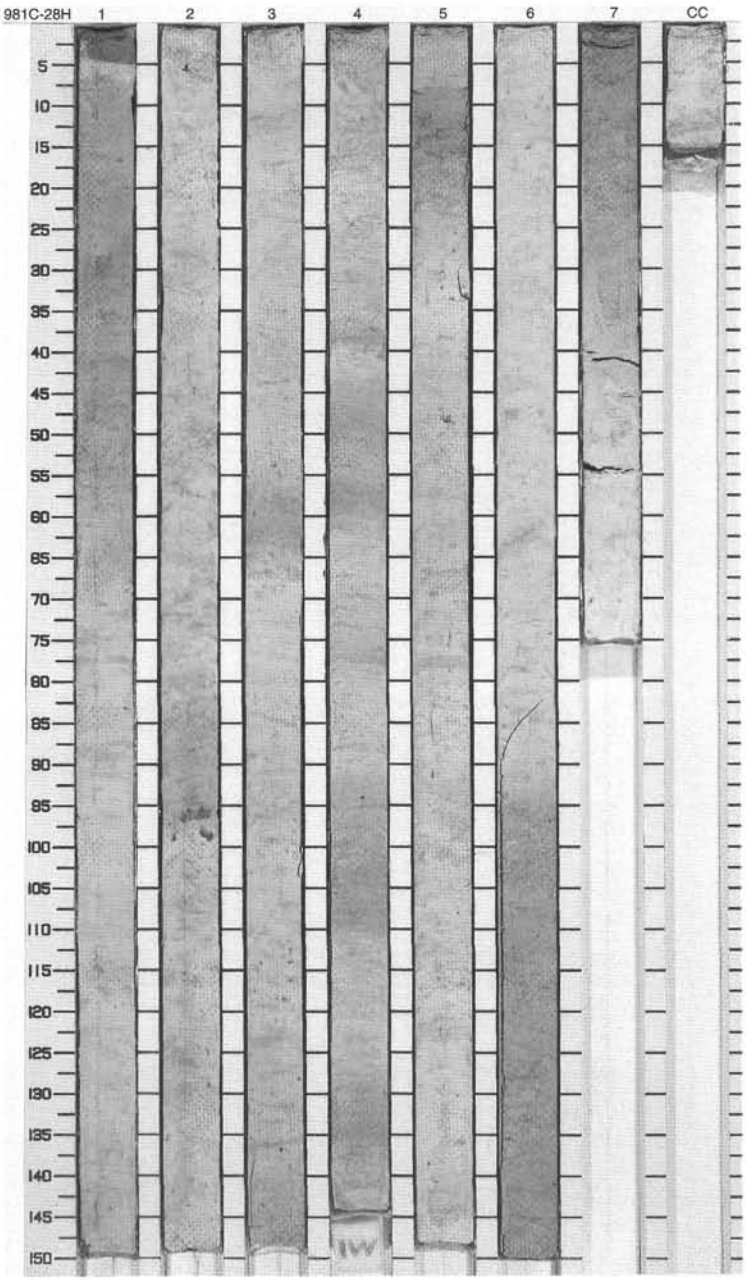
SITE 981 HOLE C CORE 27H CORED 243.2 - 252.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	early Pliocene	P			5Y 7/1 To 5Y 8/1	NANNOFOSSIL OOZE and NANNOFOSSIL OOZE WITH CLAY General Description: This core contains light greenish gray (5GY7/1) NANNOFOSSIL OOZE WITH CLAY and light gray to white (5Y7/1 to 5Y8/1) NANNOFOSSIL OOZE. In Sections 5 and 6, there are a series of alternating vertical structures across the core (probable discrete Zoophycos trace fossil). Color changes are gradational. Slight to strong bioturbation occurs throughout the core. Disseminated pyrite is present in several layers.
		2		P				
		3					5Y 7/1	
		4						
		5					5Y 7/1 To 5GY 7/1	
		6		P				
		7		P			5GY 7/1	
		CC						



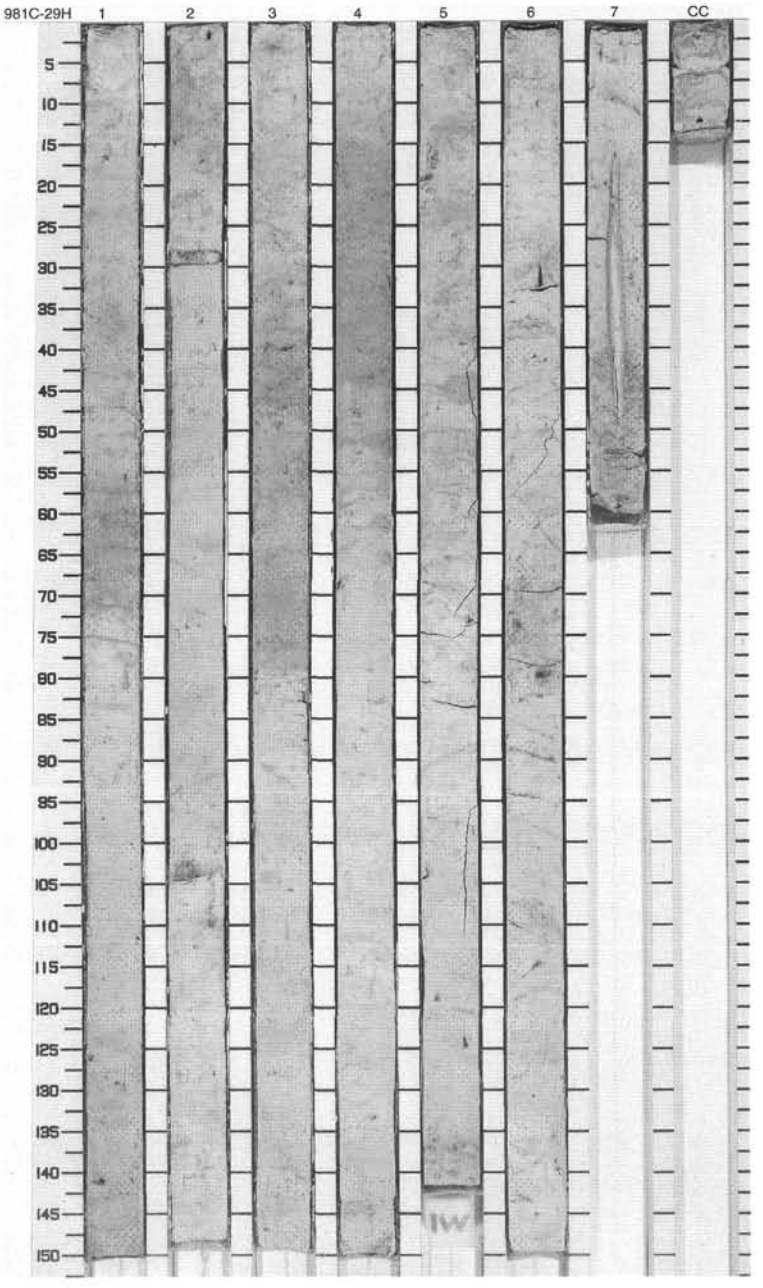
SITE 981 HOLE C CORE 28H CORED 252.7 - 262.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–7, CC	early Pliocene		W	I	10Y 6/1; 5GY 7/1; 10Y 5/1; 5GY 7/1; 10Y 5/1; 5GY 7/1	CLAYEY NANNOFFOSSIL OOZE General Description: This core contains interbedded greenish gray (10Y 6/1, 10Y 5/1) to light greenish gray (5GY 7/1) CLAYEY NANNOFOSSIL OOZE. A sharp contact occurs in Section 5, 10 cm. All other color changes are gradational. Faint green color bands occur in Sections 3, 4, and 5. Pyrite is disseminated throughout the core, and also occurs as scattered concretions. The uppermost 10 cm of Section 1 is very disturbed and appears to be fall-in from the borehole. Sections 6 and 7 have a very slight disturbance, resulting in upturned bedding along the core liner.



SITE 981 HOLE C CORE 29H CORED 262.2 - 271.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9	Void	1–7, CC	early Pliocene	P, P, P, P, P, P, P, P, P, P		I, M	5GY 7/1 To 5GY 6/1; 5GY 7/1; 5GY 8/1; 10Y 6/1; 5GY 7/1; 5GY 6/1; 5GY 8/1	NANNOFOSSIL OOZE General Description: This core contains homogeneous light greenish gray (5GY 6/1) to white (5 GY 8/1) NANNOFOSSIL OOZE. The core is both slightly mottled and bioturbated throughout. Some disseminated pyrite occurs in discrete blebs in most of the sections. Faint greenish and purple color bands and subtle color variation occur throughout.



SITE 981 HOLE C CORE 30H CORED 271.7 - 281.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	early Pliocene		W		5GY 7/1	NANNOFOSSIL OOZE General Description: This core contains greenish gray (5GY 6/1, 5GY 5/1) and light greenish gray (5GY 7/1) NANNOFOSSIL OOZE. There is a sharp contact in Section 3, 100 cm. Other color changes are gradational. Bioturbation is slight throughout the core. Color bands occur in Sections 3 and 6. Sulfides are sparsely disseminated throughout. Inclined and convolute bedding in Sections 1 and 4 may be related to coring disturbance.
							5GY 5/1	
		2					5GY 7/1 To 5GY 6/1	
		3						
		4				I	5GY 7/1	
		5					5GY 6/1	
							5GY 5/1	
		6					5GY 7/1	
		7						
		CC