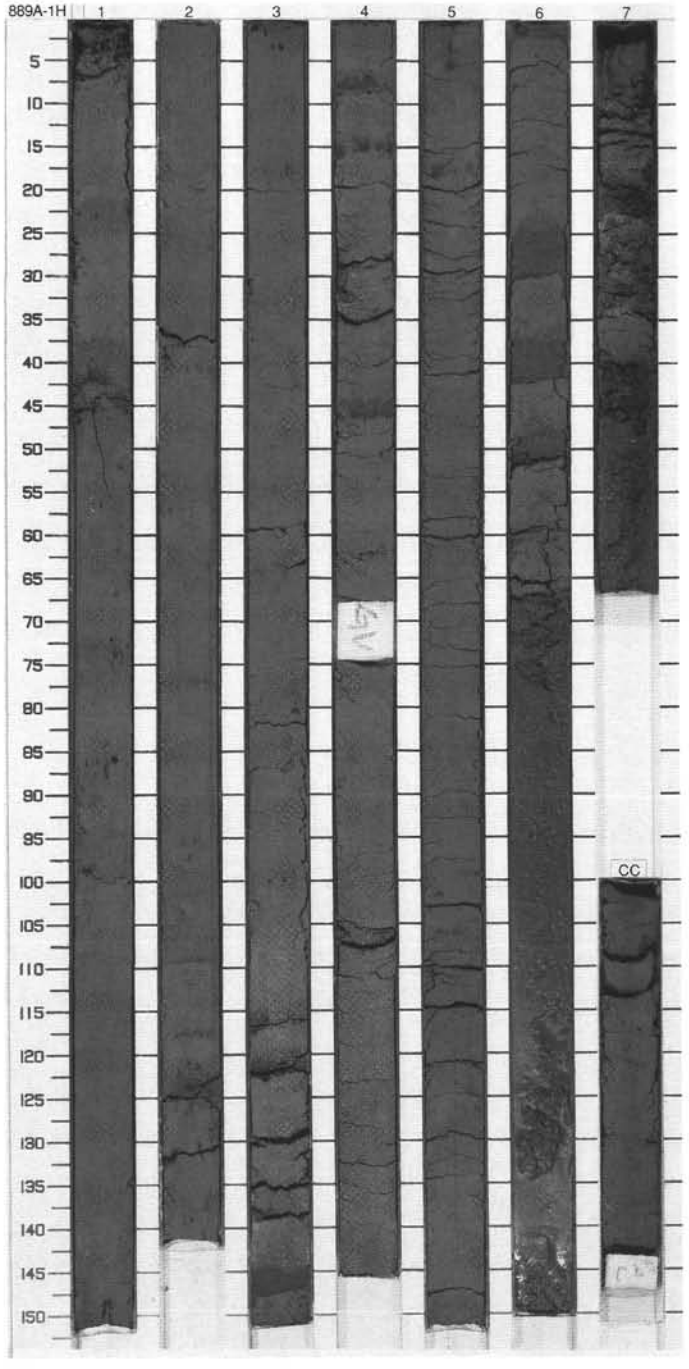
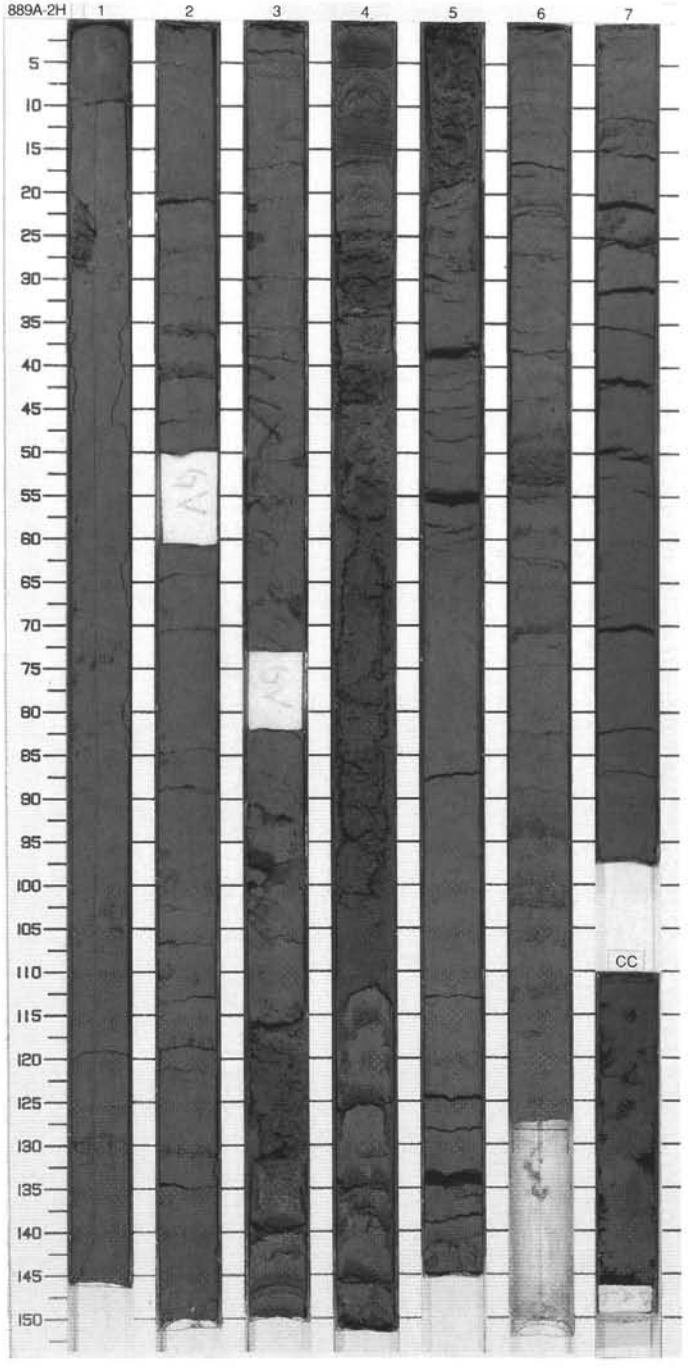
SITE 889 HOLE A CORE 1H CORED 20.0 - 29.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–10		1–7, CC	upper Pleistocene			S, W, M	8.3Y 3.1/0.6; 0.8GY 2.6/0.9; 8Y 3/1; 9GY 1/0; 0.8GY 3.2/0.7; 9.4Y 3.0/1.1; 1.1GY 2.1/1.0 to 3.4GY 1.8/0.6; 5.5 GY 1.9/0.4	SILTY CLAY TO CLAYEY SILT and FINE SAND Major Lithologies: Dark greenish gray (about 1GY 3/1) to olive gray (about 8Y 3/1) SILTY CLAY TO CLAYEY SILT interbedded with thin layers of FINE SAND, always graded and with sharp bottom contact. SILTY CLAY occurs with little or no sand from Section 1, 0 cm to Section 2, 40 cm. FINE SAND dominates from Section 6, 20 cm to the bottom of Section 7. Wood fragments and dark gray to black patches (sulfides) are dispersed in both lithologies. Large foraminifers, up to 1 mm in size, are preserved in the sandy layers. Biogenic components are present in the silt and sand (foraminifers, diatoms, sponge spicules) in amounts from trace to 5%. Sands are composed of feldspar, quartz, rock fragments, volcanic glass and accessory minerals. General Description: The core is disturbed by horizontal cracks (preferentially in sandy layers) due to gas expansion. Section 6 showed intensive bubbling in the sandy layer during core splitting.



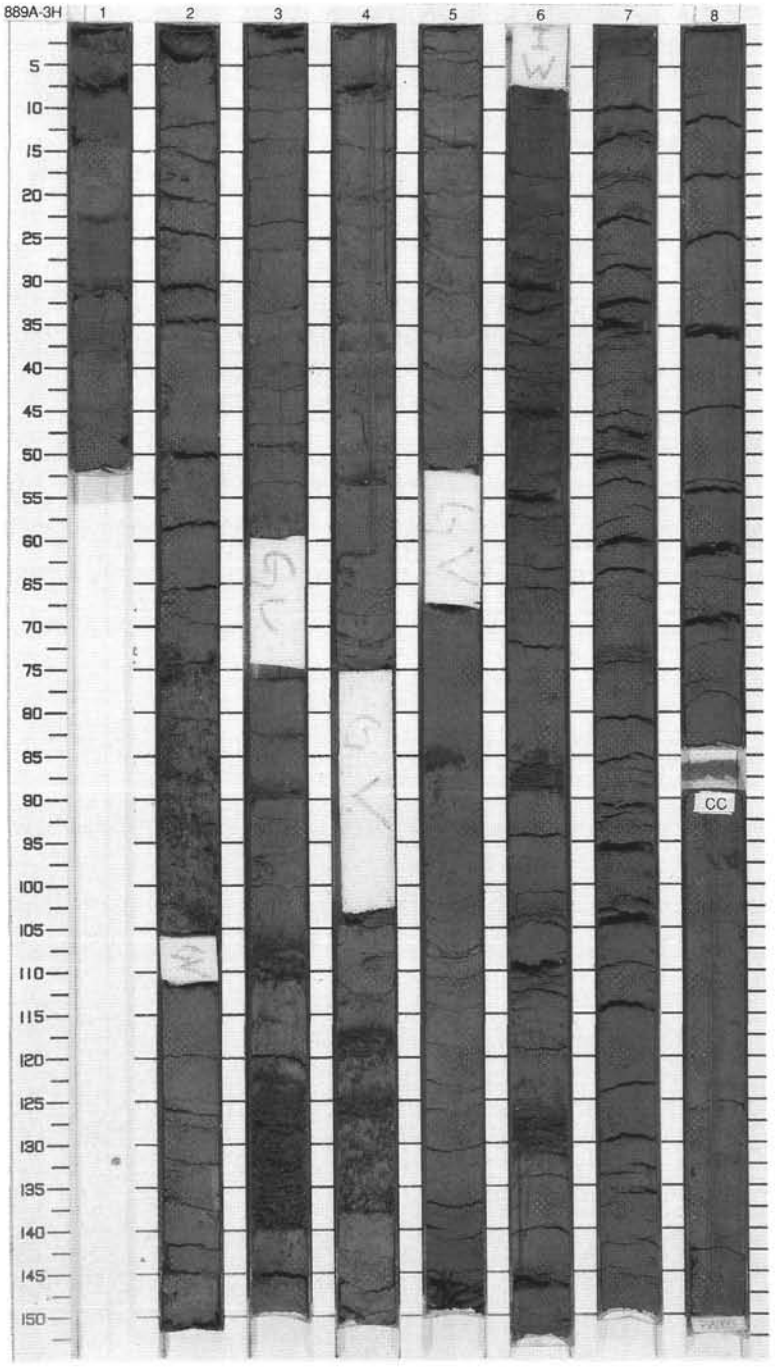
SITE 889 HOLE A CORE 2H CORED 29.5 - 39.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–10		1	upper Pleistocene			S	8.8GY 3.4/0.4	CLAYEY SILT and SAND Major Lithologies: Dark greenish gray to dark gray (about 9GY 3.5/0.5 to 2.5GY 3/0.5) homogeneous CLAYEY SILT interbedded with dark gray fine to medium well-sorted normally graded greenish black (7.0G 1.8/0.3) SAND. Sandy layers (mostly less than 10 cm, rarely up to 50 cm-thick) have sharp lower contacts. Bioclasts (foraminifers) make up less than 10% of the sediment. Major components are quartz, feldspar, volcanic glass, and accessory minerals. Small black patches (sulfides) are present throughout the core. Shell fragments (1 mm to 5 mm across) occur in the thickest sand beds. General Description: The core is disturbed by cracks due to gas expulsion. Gas bubbling was noticed in Section 5 during the splitting procedure.
	VOID	2					3.1GY 2.6/0.3	
		3			W		2.5GY 3.1/0.6 (SiH) 7.0G 1.8/0.3 (sand)	
		4					4GY 3/0 to 8GY 2/0	
		5			O	I	3.2GY 2.9/0.5	
		6					5.5GY 3/0.4	
	Void							
		7					2.6Y 3/0.8	
		CC				M	3.4GY 2.0/1.2	



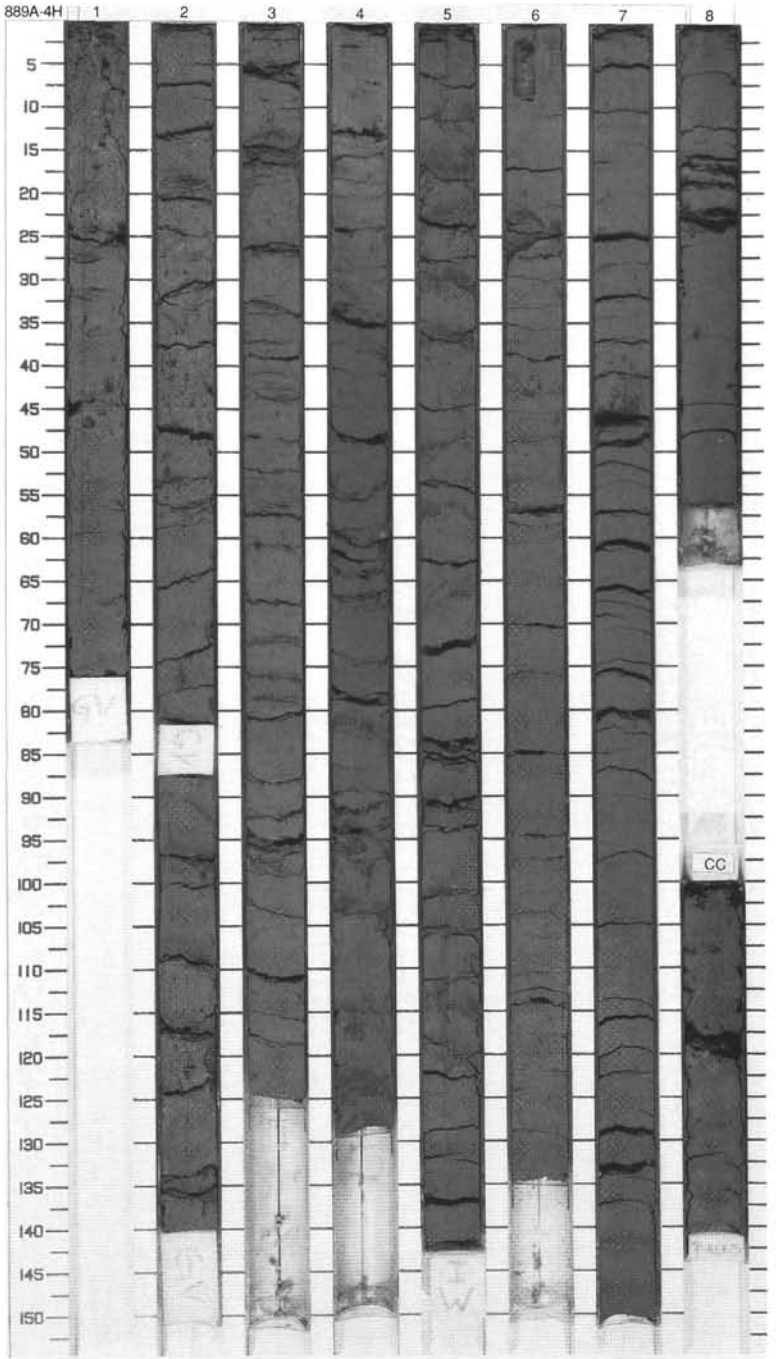
SITE 889 HOLE A CORE 3H CORED 39.0 - 48.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–11	Void	1	upper Pleistocene				1.9GY 2.8/0.8	CLAYEY SILT TO SILTY CLAY and FINE SAND Major Lithologies: Dark greenish gray (about 2GY 3/1, 5GY 3/0.4, 5GY 4/1) homogeneous, structureless CLAYEY SILT TO SILTY CLAY interbedded with thin layers of FINE SAND. Thickness of sand layers varies from 1 cm to 5 cm, the lower contact is always sharp, and normal gradation is common. Shell fragments (1 mm to 5 mm) are present in the sandy layers. Biogenic components are less than 10%. Major components of the sand and silt sediments are feldspar, quartz, volcanic glass, opaques, hornblende, and accessory minerals. Sulfide-rich black patches are common in Sections 5, 6, 7, and 8. General Description: The core is disturbed by horizontal cracks due to gas expansion along sandy layers.
		2				S	4.1GY 3.0/0.5	
	Void	3					3.2GY 3.0/0.6	
	Void	4				S	3.4GY 2.4/0.4	
	Void	5					2.5GY 3/0.8	
		6				S	2GY 2.5/0.8	
		7				S	3.4GY 2.0/0.8 to 5GY 4/1	
		8					5.5GY 3.2/0.4	
		CC				M		



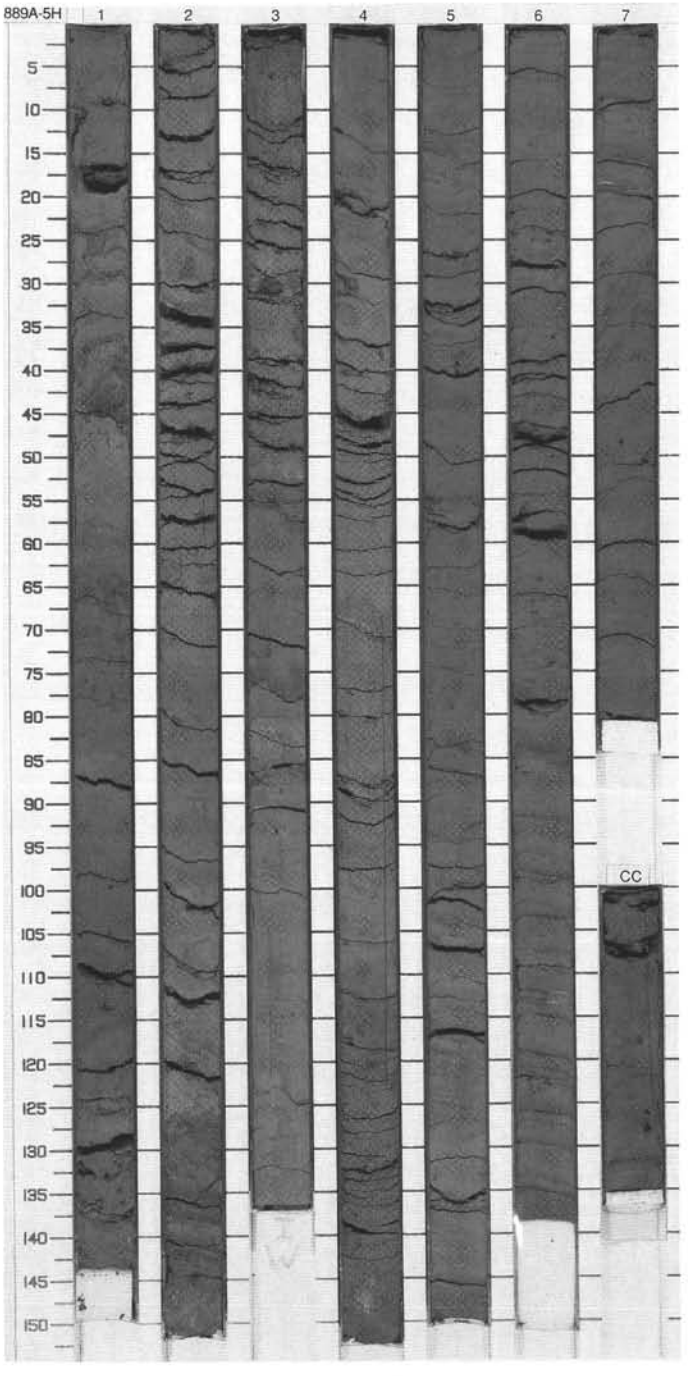
SITE 889 HOLE A CORE 4H CORED 48.5 - 58.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–10		1	upper Pleistocene			S S	6GY 3.3/0.3	SILTY CLAY and FINE SAND Major Lithologies: Dark greenish gray (0.8 GY 2.9/0.8 to 6GY 3.3/0.3) SILTY CLAY, faintly laminated with occurrence of pebbles in Section 2, 18–56 cm. Size and frequency of pebbles decreases upwards. Layers (0.5 cm to 5 cm) of FINE SAND, dark greenish gray, with sharp top and bottom contacts are interbedded with the clay. Dark horizons or spots of black (6.5B 2.4/0.2) sulfide-disseminated material were observed in Sections 2 and 4. General Description: The soft sediments recovered in Core 146-889A-4H are disturbed by gas cracks. Interbeddiing of silty clay with thin sandy layers is the dominant lithology. Pebbles and shell fragments are present occasionally.
		2		F				
		3						
		4				S	0.8GY 2.9/0.8 1.0GY 3.3/0.7	
		5				I	2.1GY 2.8/0.8 6GY 3.0/0.3	
		6					0.7GY 3.2/0.8	
		7					3GY 3/0.3 6GY 2.9/0.3	
		8					about 5GY 3/0.5	
		CC				M		



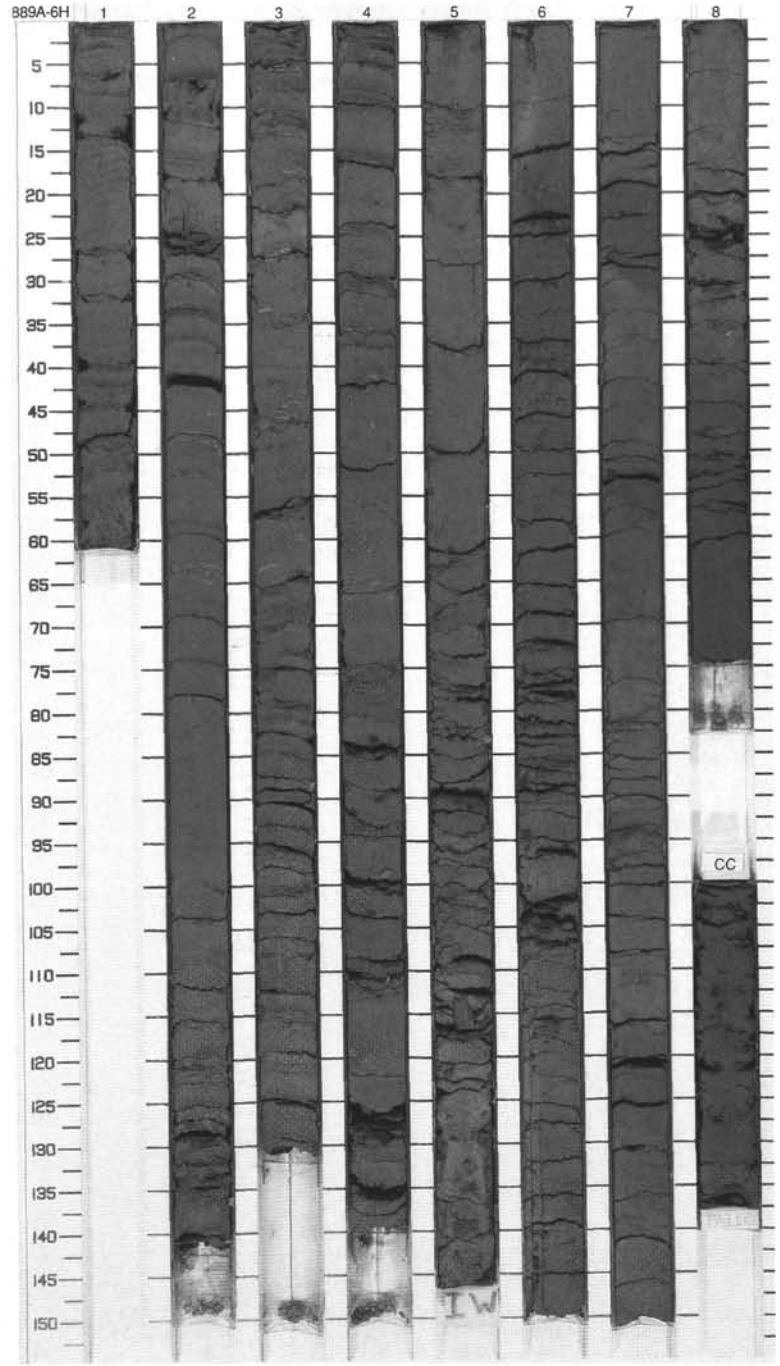
SITE 889 HOLE A CORE 5H CORED 58.0 - 67.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–10		1	upper Pleistocene				4.6GY 3.2/0.5	SILTY CLAY Major Lithology: SILTY CLAY, different shades of dark greenish gray (2.7GY 3.1/0.9 to 5GY 3/1), homogeneous with occasional layers rich in mud clasts (Section 1, 110–130 cm) or parallel laminated (Section 5, 110 cm to Section 7, 70 cm). Minor Lithology: Bioturbated patches or thin layers of FINE SAND occur occasionally throughout the entire core in amounts of nearly 50% at the base of Section 2 (126–155 cm). Sands are soupy or mottled. General Description: Material recovered from Core 146-889A-5H is disturbed by gas expansion fractures. Clay and silty clay are interbedded with rare sandy layers.
							2.7GY 3.1/0.8	
		2					5GY 3/1 to 4.7GY 3/0.7	
		3				S S	4.3GY 2.4/0.6 to 3.5GY 3/0.5	
		4				I	7.1GY 3.5/0.5	
						S	2GY 3.1/0.9	
		5					3.2GY 3.4/0.5	
		6					5GY 3.4/0.4	
		7					1.5GY 3.0/0.5	
		CC				M		



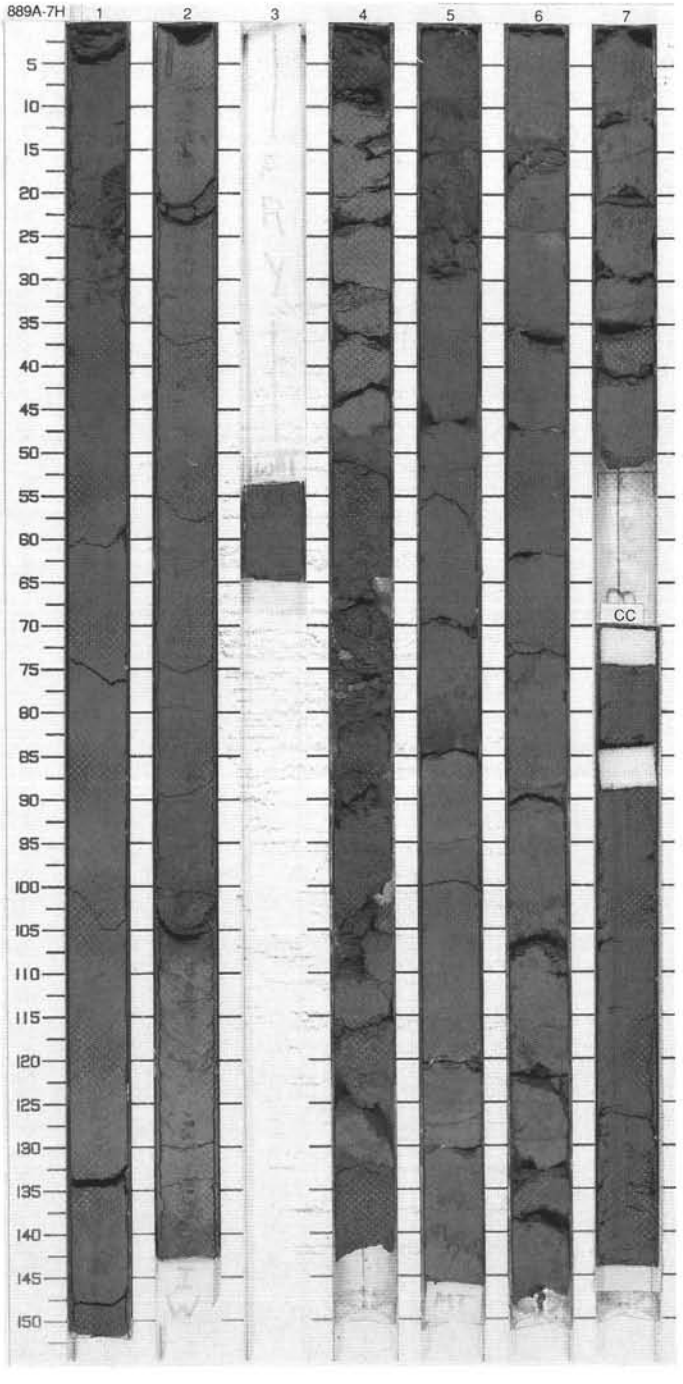
SITE 889 HOLE A CORE 6H CORED 67.5 - 77.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	upper Pleistocene				1.5GY 3.5/0.5	SILTY CLAY Major Lithology: SILTY CLAY, dark gray to dark greenish gray (0.6GY 2.9/0.5 to 6.1GY 3.1/0.5), homogeneous and structureless. Horizons or patches of black sulfide material in Sections 4, 5, 7, 8, and CC.
2		2					2.7GY 3.5/0.2	
3		3					3.7GY 3.4/0.4	Minor Lithology: VERY FINE SAND, dark gray to greenish gray, restricted to thin (1 mm to 30 mm) layers with normal gradation.
4		4				S	9.7Y 2.9/0.4	General Description: Core 146-889A-6H is disturbed by gas cracks. Normal microfaults observed in Section 3 are interpreted as original structures.
5						S	about 3GY 3/0.5	
6		5				I	4.1GY 3.2/0.7	
7							6.1GY 3.1/0.5	
		6				S	0.9GY 2.5/1.0	
8							3.2GY 3.2/0.6 to 1.3GY 3.4/0.9	
9		7				S	5.1GY 3.7/0.7	
10		8				S	4.0GY 2.7/0.6	
		CC				M	1.8GY 2.5/0.9	



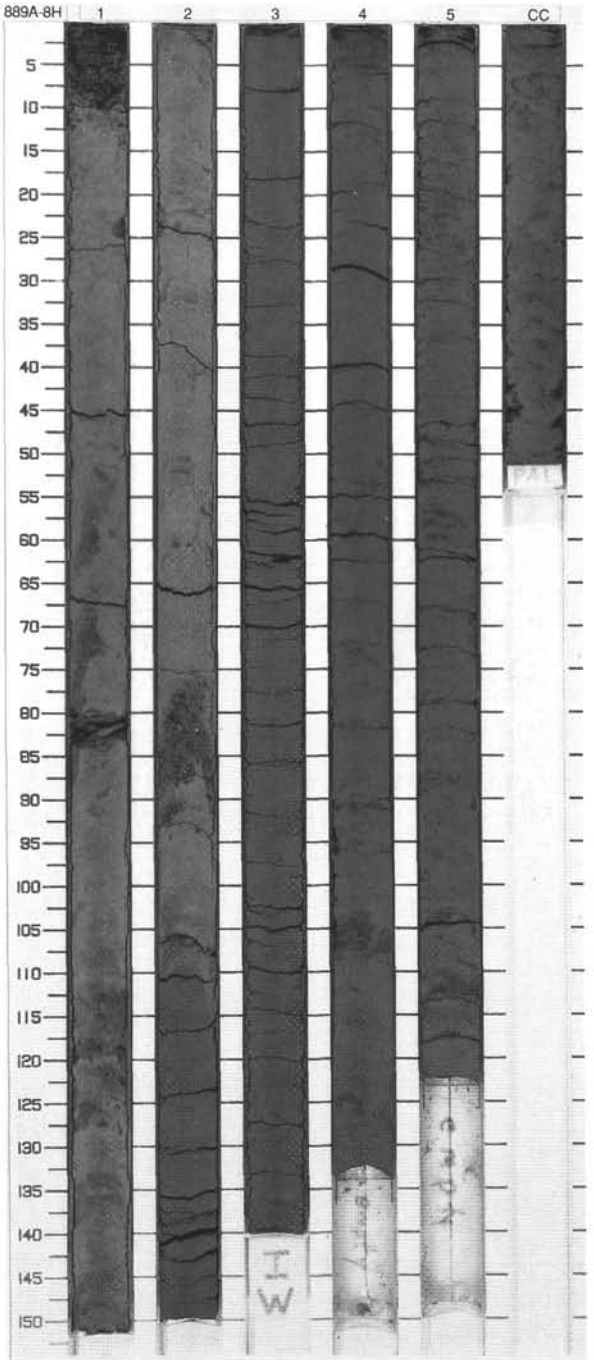
SITE 889 HOLE A CORE 7H CORED 77.0 - 86.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–7, CC	upper Pleistocene			I, W, S, T, W	varies between 4.0GY 2.7/0.9 and 5.2GY 3.2/0.8; varies between 0.8GY 2/1 to 8.9GY 2.4/0.9; 5.5GY 2.5/0.6	SILTY CLAY Major Lithology: SILTY CLAY, grayish green (from 0.3GY 2.0/1.1 to 5.5GY 2.4/0.3), with sandy patches, rare thin sandy layers and numerous gas cracks below Section 3. Minor Lithologies: FINE SAND, dark greenish gray, restricted to rare thin (up to 5 cm) layers with sharp (rarely scoured) bottom and gradational top contacts. CARBONATE CONCRETIONS, about 1 mm in diameter, occur at Section 6, 23 cm and 47 cm. Thin section describes concretion in working half at 139 cm. General Description: Sediments recovered in Core 146-889A-7H are disturbed by horizontal gas cracks.



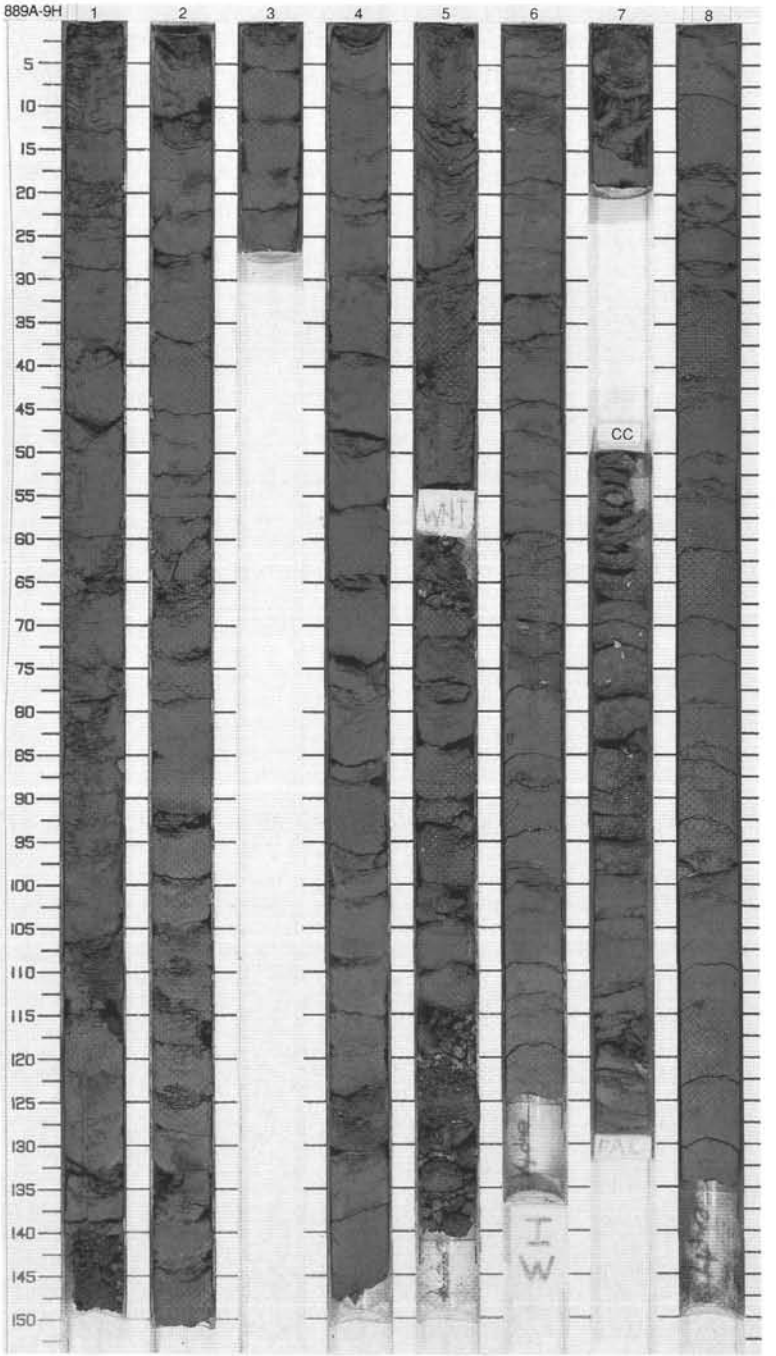
SITE 889 HOLE A CORE 8H CORED 86.5 - 94.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–7		1–5, CC	lower Pleistocene			S, S, S, I, S, M	6GY 3.4/0.6; 0.1GY 2.9/0.8 to 0.76Y 3.0/0.8	SILTY CLAY and CLAYEY SILT Major Lithologies: SILTY CLAY, various shades of dark greenish gray (0.1GY 3/1 to 5.9GY 3.7/0.7), usually structureless, with isolated small sandy patches and shell fragments. Sandy patches may reflect original thin sandy layers, destroyed by drilling and handling. CLAYEY SILT, various shadows of dark greenish gray (0.1GY 2.9/0.8 to 6GY 3.9/0.6), with very thin sandy layers. Minor Lithology: VERY FINE SAND, dark gray, restricted to very thin (less than 1 cm) layers usually with normal gradation. General Description: Numerous gas cracks restricted mostly to coarser layers.



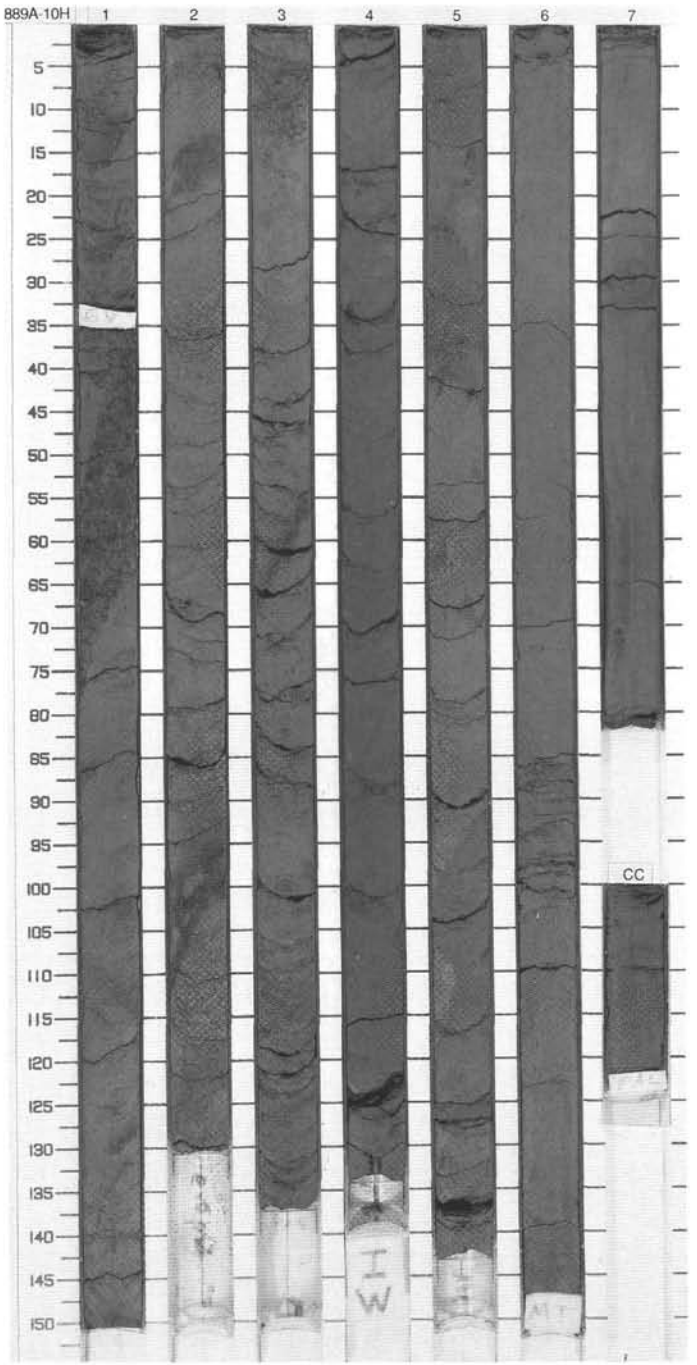
SITE 889 HOLE A CORE 9H CORED 94.5 - 104.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–10	Void	1	lower Pleistocene			S	0.7GY 3.2/0.6	CLAYEY SILT Major Lithology: CLAYEY SILT, dark to very dark greenish gray (0.4GY 2.6/0.8 to 6.4GY 3.3/0.4), faintly laminated, with small sandy patches and thin (1 cm- to 3 cm-thick) sandy layers. Minor Lithology: VERY FINE SAND to SILTY SAND, gray, dark greenish gray, lighter gray (too thin to be measured), containing foraminifers, pyrite, mica. Usually, sands have sharp bottom contact and normal grading. Weak reaction with HCl.
		2					4.8GY 3.5/0.7	
		3				S	4.1GY 3.1/0.4	
		4						
		5				S W	9.8Y 2.6/0.5	
		6				I	5.4GY 3.3/0.4	
		7			W			
		8				S	4.2GY 3.2/0.6 to 6.4GY 3.3/0.4	
		CC				M		



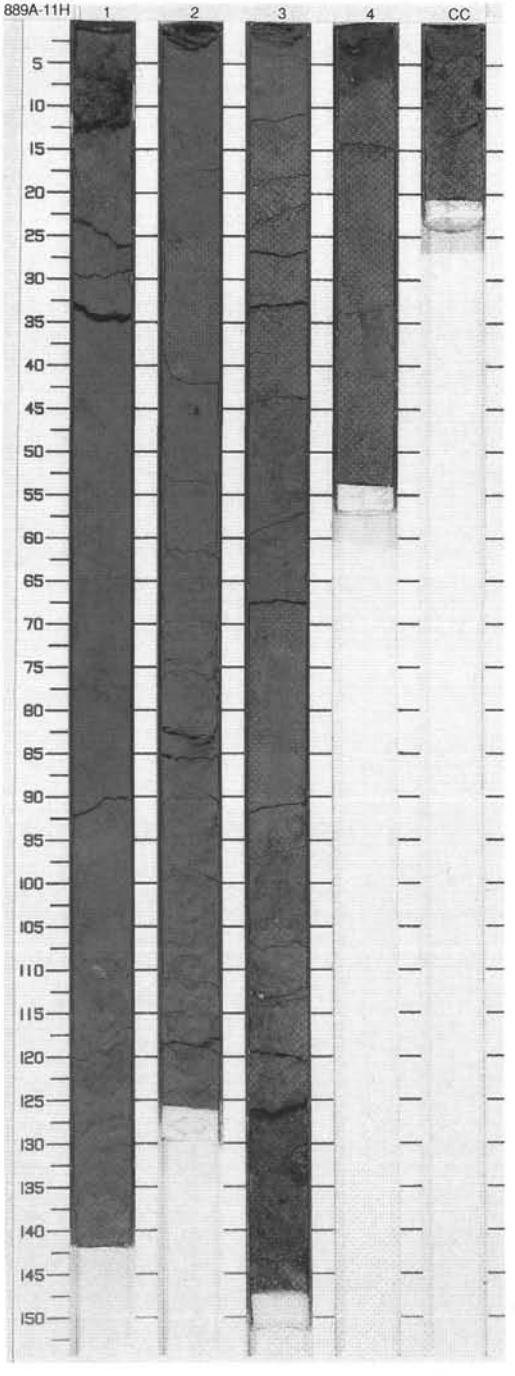
SITE 889 HOLE A CORE 10H CORED 104.0 - 113.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–10		1	lower Pleistocene			S S	2.0GY 2.9/0.4	CLAYEY SILT and SANDY SILT Major Lithologies: CLAYEY SILT, dark greenish gray (1.1GY 3.4 /0.3 to 5.5GY 3.2/0.4), with many gas cracks in Sections 1, 2, and 3. White nodules of aggregated sponge spicules occur in Sections 3, 4, and 6. Clayey silt contains clasts of firm shale at Section 5, 13–42 cm. Weak reaction with HCl. SANDY SILT, very dark olive gray (7.0Y 2.3/0.9 to 9.9Y 2.7/0.7) is interbedded with clayey silt or forms patches in the upper part of the core (Sections 1 to 3). SANDY SILT forms thin (about 1 cm) layers containing shell fragments, and inclined at about 65°. Mud clasts and a single carbonate-bearing pebble are present in Section 5, 13–42 cm. General Description: Core 146-889A-10H is disturbed by horizontal gas cracks.
		2					1.2GY 3.2/0.5 with thin interbeds of 8Y 2.7/0.9	
		3						
		4					8.4Y 2.7/0.9	
		5				I	1.1GY 3.2/0.7	
		6					5.5GY 3.3/0.4	
		7					6.3GY 3.5/0.4	
		CC				M		



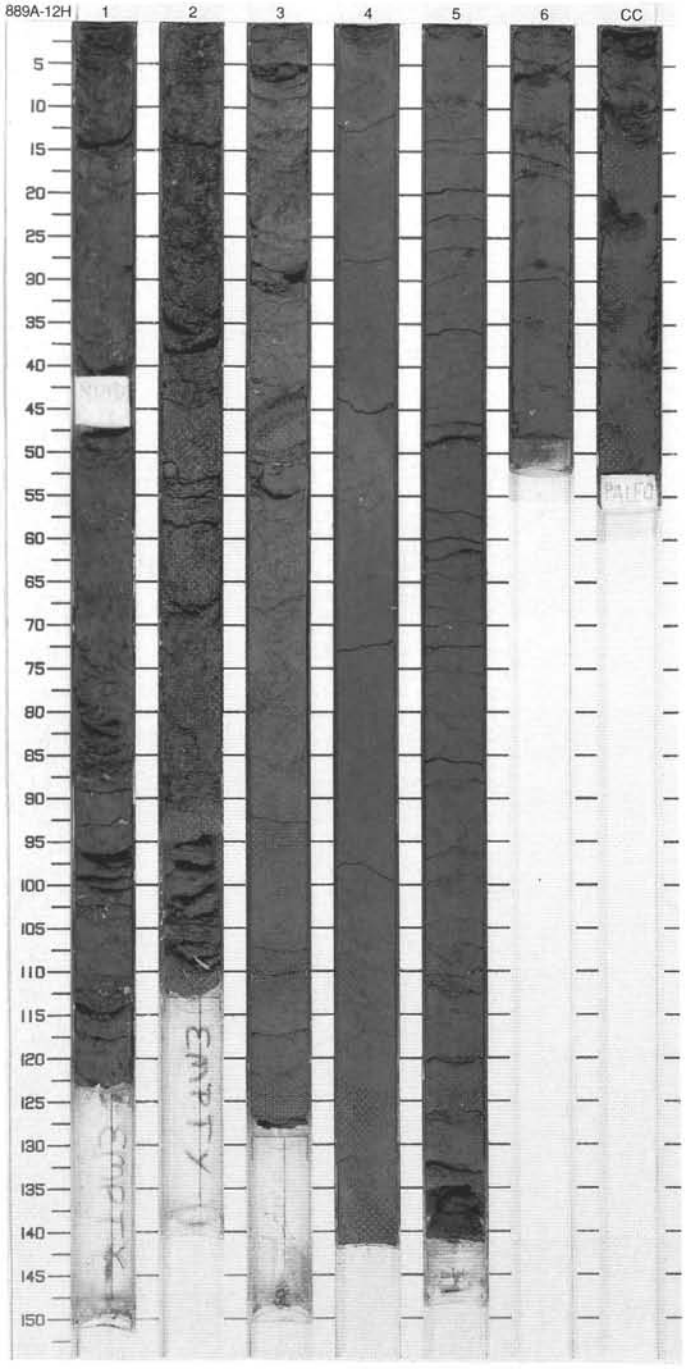
SITE 889 HOLE A CORE 11H CORED 113.5 - 119.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–5	Void	1, 2, 3, 4, CC	lower Pleistocene	⋯ ⋯ S Ⓢ S ◇ ◇ ◇	○	S I I S M	3.6GY 3.3/0.5; 0.8GY 3.3/0.8; 8Y 2/1; 0.6GY 3.2/0.7	SILTY CLAY and CLAYEY SILT Major Lithologies: SILTY CLAY and CLAYEY SILT, mottled dark gray to dark greenish gray to olive black (0.6GY 2.2/0.6 to 3.6GY 3.3/0.5 and 8Y 2.4/0.8 to 8Y 2/2), with green patches, interbedded with VERY FINE SAND at Section 1, 12–142 cm. Sediments are sometimes pebbly (Sections 3 and 4) with intraclasts. Bedding is horizontal or dipping with low angles (less than 20°). Sedimentary structures are absent, except some sharp bottom contacts of silty layers (Section 1, 40–60 cm). Minor Lithology: VERY FINE SAND is interbedded in Section 1, 12–142 cm. General Description: The sediment recovered from Core 146-889A-11H shows slight drilling disturbance and rarely fracturing on mm scale due to gas expulsion. Clay with varying amounts of silt, up to 35%, is the dominant lithology.



SITE 889 HOLE A CORE 12H CORED 119.0 - 127.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	upper Pliocene to lower Pleistocene	◆ ◆ ◆ ◆			9.1Y 1.8/0.8	DIATOMACEOUS SILTY CLAY Major Lithology: DIATOMACEOUS SILTY CLAY, with variation in color from dark gray to dark greenish or olive gray (0.5GY 0.4/0.6 to 3GY 3.4/0.6 to 10Y 2.5/0.8). Lumps and mottling are observed in the clay. Pebbles, mostly clasts of firm mud, occur in Sections 1, 2, and 3. Silt forms patches or inclined layers (with dips less than 25°) at Section 3, 42–45 cm. Diatoms up to 30%. Minor Lithologies: SILTY CLAY, very dark greenish gray (0.4G 3.4/0.6), structureless, bisquited, was observed in Section 2, 90–110 cm. Inclined beds with SANDY SILT were observed in Section 3, 42–45 cm. General Description: Sediments from Core 146-889A-11H show slight drilling disturbance and rarely gas fracturing. Clay with varying amounts (up to 35%) of silt is the dominant lithology observed.
	Void							
2		2		◆ ◆ ◆			0.4GY 3.4/0.6 to 9.8Y 3.0/0.8	
	Void							
3		3		◆				
	Void							
4		4				S	10Y 3/0.4	
5						I		
6		5				S	8.5Y 2.5/0.9	
7		6						
8		CC				M		



SITE 889 HOLE A CORE 13H CORED 127.0 - 128.0 mbsf

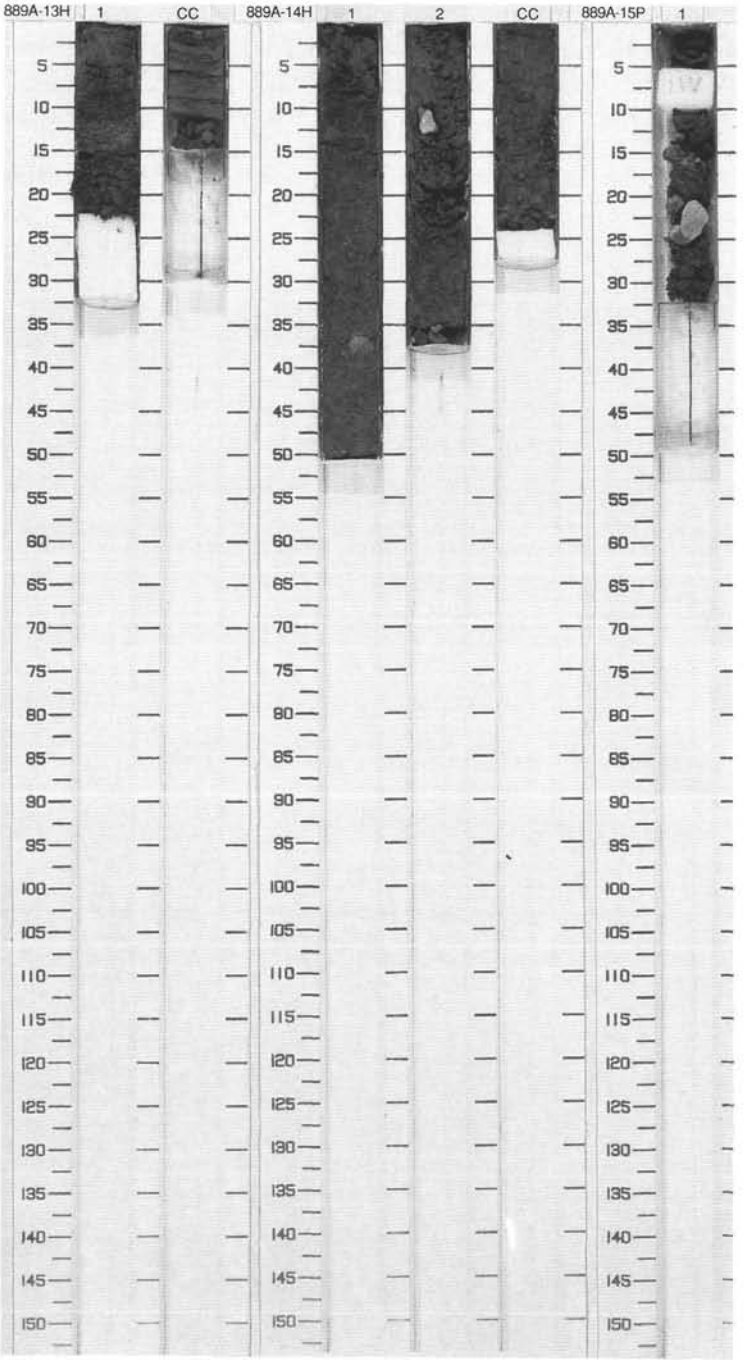
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1 CC	upper Pliocene to lower Pleistocene		WW	S I M	1.4GY 2.4/0.8 and 9.5Y 2.1/1.0	SILTY CLAY Major Lithology: SILTY CLAY, alternately dark olive gray (about 8.3Y 2.9/1.0) and greenish to olive black (1.9GY 2.9/0.8 and 9.5Y 2.1/1.0), homogeneous, structureless. General Description: Scaly fabric possibly enhanced by drilling and core splitting is observed.

SITE 889 HOLE A CORE 14H CORED 128.0 - 129.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1 2 CC	upper Pliocene to lower Pleistocene	©		S I M	about 9Y 2.5/1	FIRM CLAYEY SILT WITH DIATOMS Major Lithology: FIRM CLAYEY SILT WITH DIATOMS, very dark olive gray (about 9Y 2.5/1), fractured. Firm indurated fragments are supported by a soft silt matrix. Subangular mud clasts and fragments (up to 4 cm) of carbonate concretions observed in Section 2. Diatoms make up to 20% of the clayey silt. General Description: Observed disturbance probably enhanced by drilling.

SITE 889 HOLE A CORE 15P CORED 129.0 - 130.0 mbsf

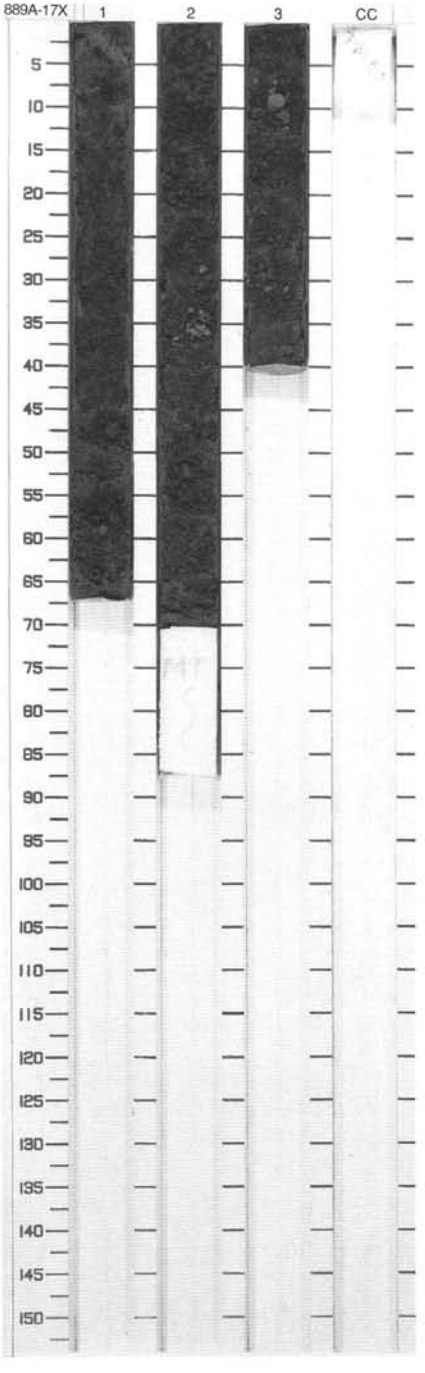
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1	upper Pliocene to lower Pleistocene	© ©	WW	S I S	8.7Y 1.6/0.7	CLAYEY SILT Major Lithology: CLAYEY SILT, olive black (8.7Y 1.6/0.7), very disturbed, no sedimentary structures visible. General Description: Two rounded carbonate concretions of dark olive gray (5.1Y 3.0/0.8) color are present in Section 1, 8 cm and 25 cm.



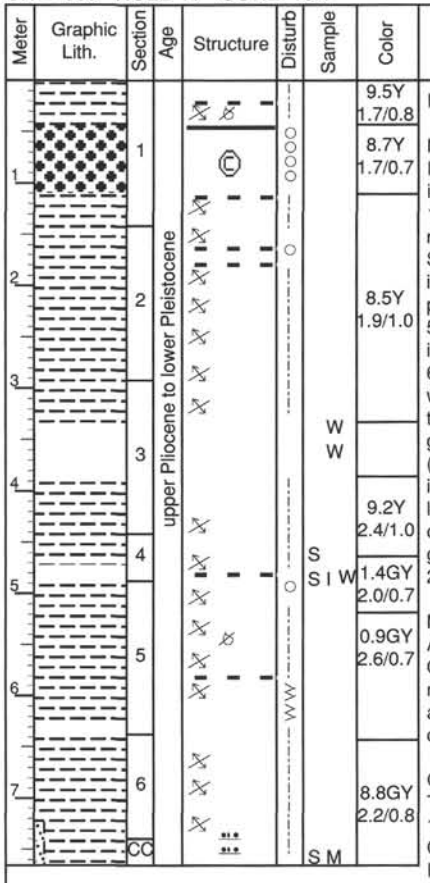
889A 16H Entire core given to paleontologist.

SITE 889 HOLE A CORE 17X CORED 130.1 - 139.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	u. Pliocene to l. Pleistocene			S	10.0Y 2.1/0.9	FIRM CLAYEY SILT WITH DIATOMS Major Lithology: FIRM CLAYEY SILT WITH DIATOMS, very dark olive gray (10.0Y 2.1/0.9 to 8.9Y 2.3/1.0), fractured. Occurrence of subrounded, dark greenish gray, firm to indurated silt clasts in the matrix. Shell fragments are present at Section 1, 40 cm and Section 3, 36 cm. General Description: Sediments of Core 146-889A-17X show scaly fabrics (possibly due to drilling and core splitting). There is a void of 3.21 m between Section 1 and Section 2 resulting from gas expansion.
		2				S I M	8.6Y 1.9/0.8	
		3						
		CC						



SITE 889 HOLE A CORE 18X CORED 139.6 - 149.1 mbsf

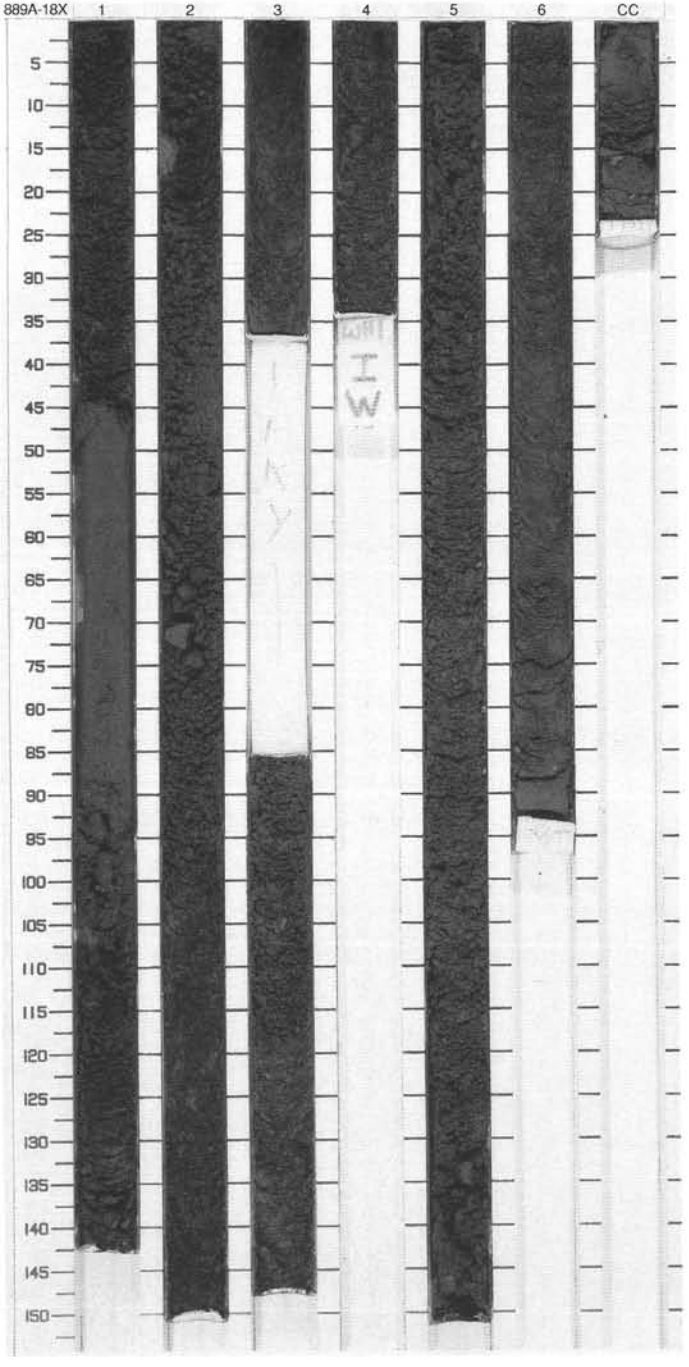


FIRM CLAYEY SILT

Major Lithology:
FIRM CLAYEY SILT, very dark greenish to olive gray (8.8GY 2.2/0.8 to 8.5Y 1.9/1.0), with scaly fabrics which may result from the drilling process(?). Some initial layering can be observed in the clayey silt; shell fragments are present (Section 1, 15 cm and Section 5, 40 cm). Sediment becomes coarser in the lower part of the core (Section 6). Scaly silty clay is interlayered there with FINE SAND beds, up to 4 cm thick. Sand beds show normal gradation. The lower part of Section 6 (80–93 cm) and the Core Catcher include undisturbed, homogeneous, less consolidated and structureless clayey silt and fine sand of dark olive gray color (9.3Y 2.9/0.7 to 9.6Y 2.9/0.6).

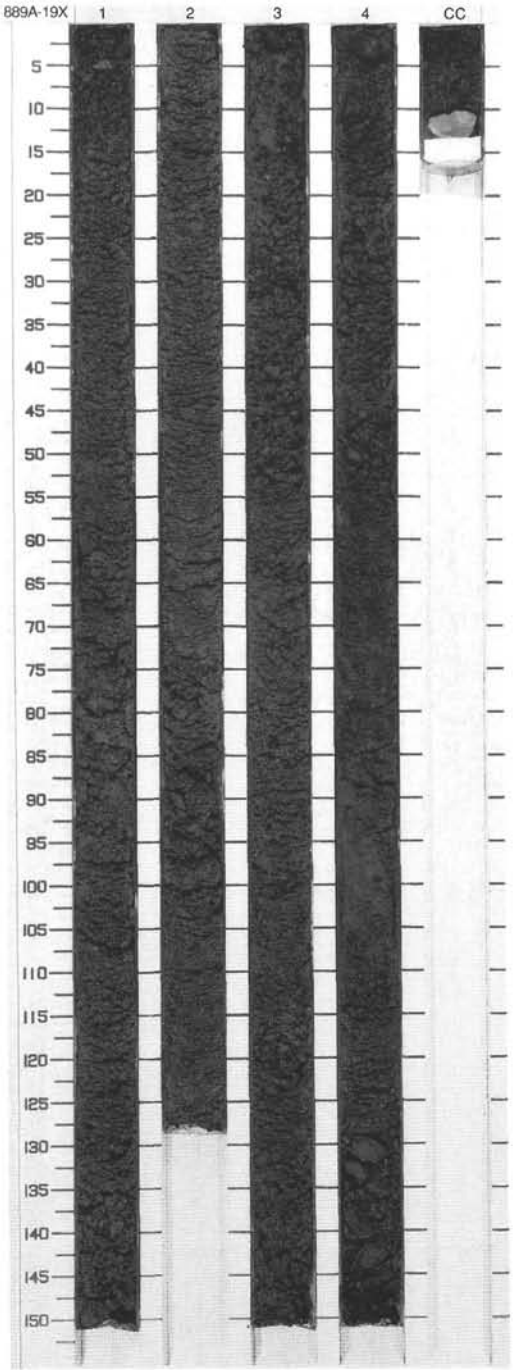
Minor Lithologies:
At Section 1, 42–110 cm, a single GRAVEL bed is observed. The soupy material is olive black (8.7Y 1.7/0.7) and contains one rounded carbonate concretion.

General Description:
The sediment recovered in Core 146-889A-18X is dominated by FIRM CLAYEY SILT, with scaly fabrics. Fractured firm clayey silt is mixed up with soft and coarser sediment. Below a FINE SAND layer at Section 6, 80 cm, sediment becomes undisturbed and homogeneous. Clayey silt is interbedded with fine sand layers. A soupy gravel layer occurs at Section 1, 42–110 cm.



SITE 889 HOLE A CORE 19X CORED 149.1 - 158.6 mbsf

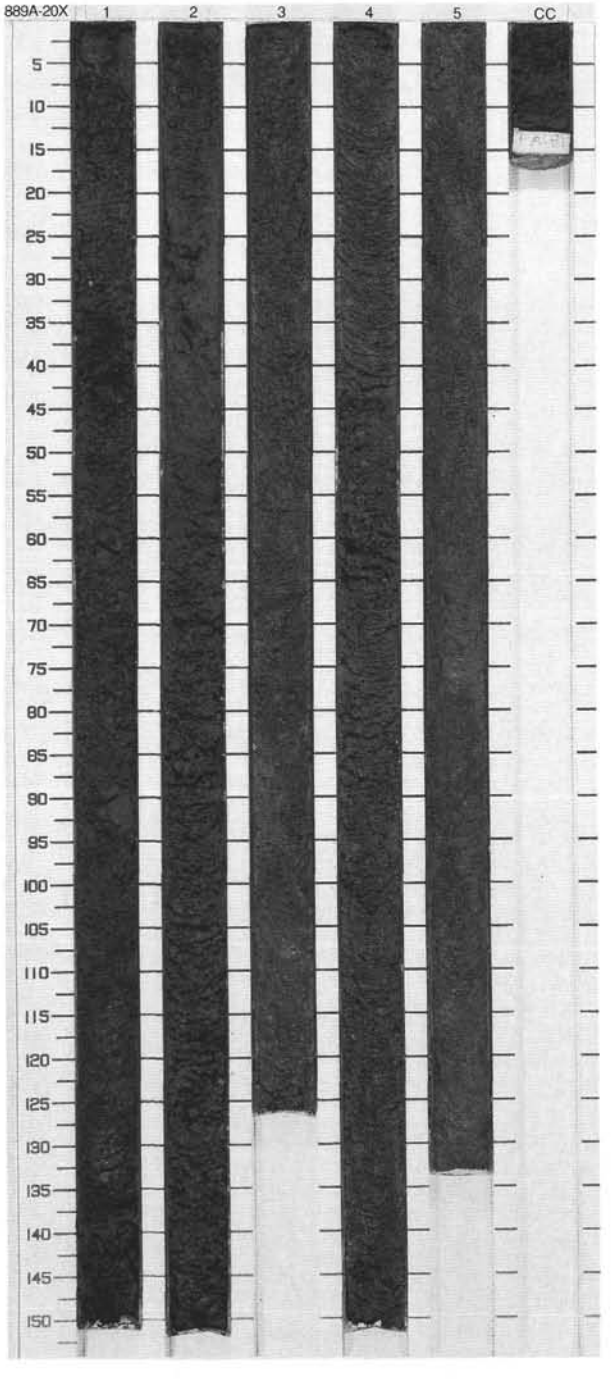
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–6		1	upper Pliocene to lower Pleistocene				1.2GY 1.9/0.5	FIRM CLAYEY SILT Major Lithology: FIRM CLAYEY SILT, greenish to olive black (from about 0.3GY 1.5/0.7 to 1.9GY 1.7/0.5 and from 7.7Y 1.9/0.8 to 9.8Y 2.2/0.7), heavily fractured. Pieces are angular to subangular (up to 1 cm in Sections 1 and 2 and up to 3 cm below Section 2). Neither bedding nor sedimentary structures observed. Scaly fabric restricted to horizontal zones in Section 2 (5–75 cm and 100–128 cm). A carbonate concretion (about 4 cm) is found in the Core Catcher. General Description: Observed disturbance apparently reflects fracturing in situ enhanced later by drilling.
		2					1.9GY 1.7/0.5	
		3					0.3GY 1.5/0.7 to 1.2GY 0.7	
		4					9.6GY 2.0/1.0	
		CC		C		M		



SITE 889 HOLE A CORE 20X CORED 158.6 - 168.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–7		1–5, CC	upper Pliocene to lower Pleistocene			S, M	0.4GY 1.7/0.7; 8.6Y 1.8/0.8 to 9.2Y 1.4/0.7; 10.0Y 1.8/0.7; 9.5Y 2.8/0.9; 3.1GY 1.9/0.3; 3.2GY 2.8/0.9; 8.7Y 2.6/0.7	FIRM SILTY CLAY Major Lithology: FIRM SILTY CLAY, olive black to dark olive gray and greenish black (9.4Y 1.2/0.5 to 9.7Y 2.8/0.9 to 3.2GY 1.6/0.5), heavily fractured, scaly or soupy. Angular to subangular clasts of firm silty clay (up to 5 cm) are more evident in Sections 1 and 2, and in the Core Catcher; Sections 3 and 4 show scaly fabric. Shell fragments are present in Sections 4 and 5. General Description: The core is color mottled especially in Sections 4 and 5. It is not possible to identify layering or bedding.

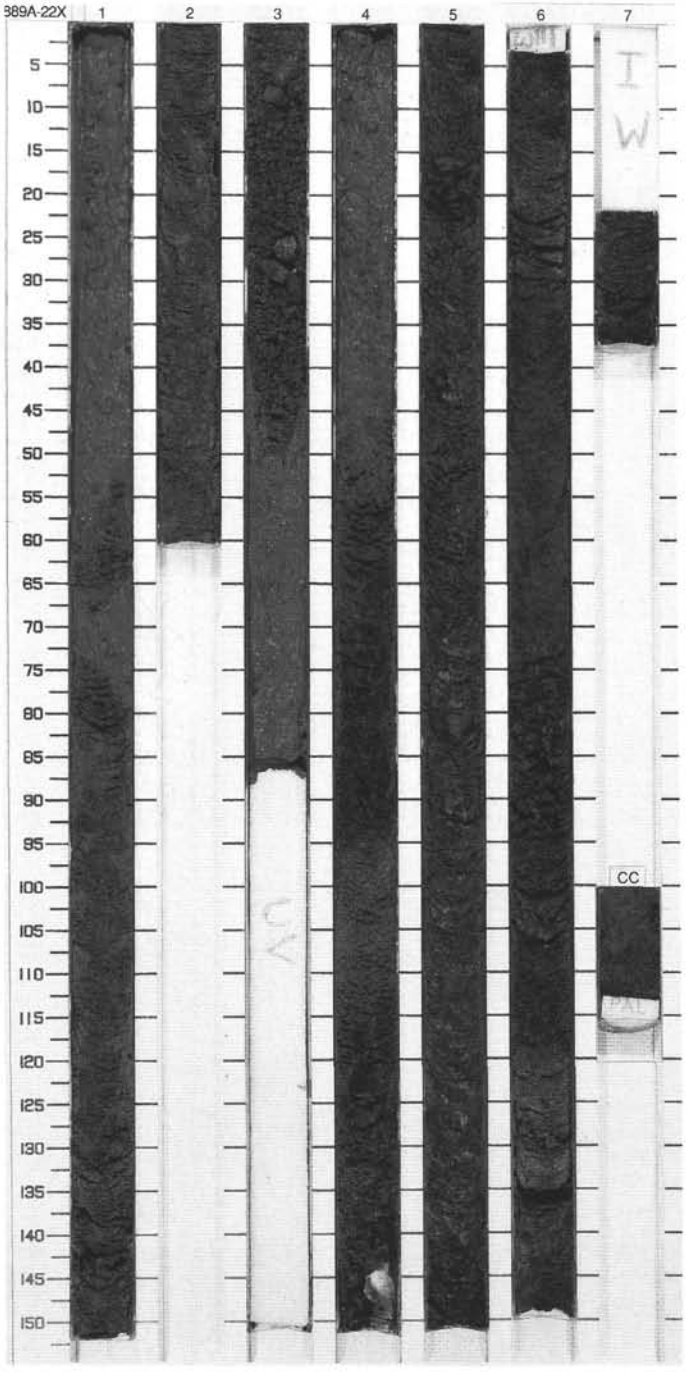
889A 21X NO RECOVERY



SITE 889 HOLE A CORE 22X CORED 177.5 - 186.8 mbsf

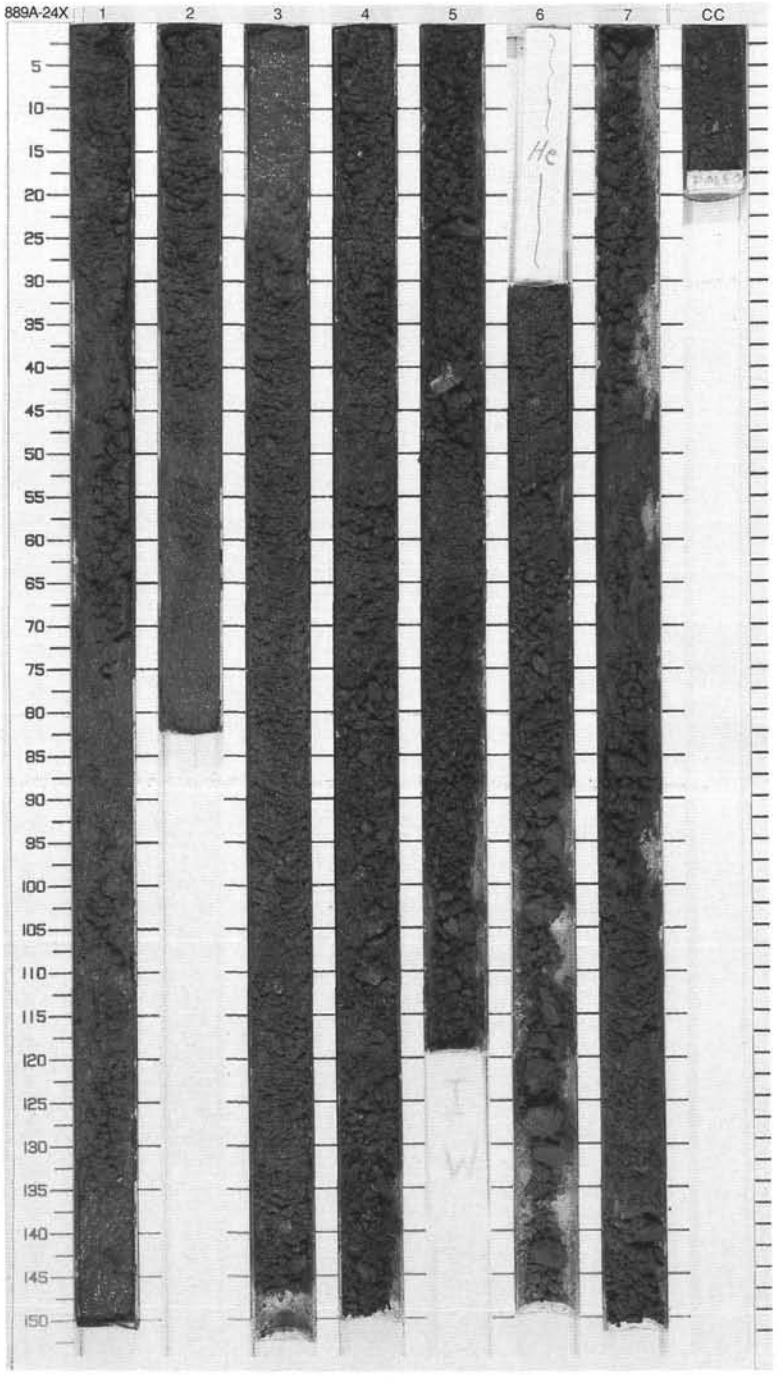
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–8	Void	1–7, CC	upper Pliocene to lower Pleistocene			S S S W I M	5.4GY 2.2/0.4 10Y 1.5/0.6 3.5GY 1.4/0.4 9.1Y 2.4/1.1 1.2GY 2.1/0.6 9.7Y 2.4/0.8	FIRM CLAYEY SILT Major Lithology: FIRM CLAYEY SILT, very dark greenish gray/greenish black to very dark olive gray/olive black (5.0GY 2.5/0.5 to 9.1Y 2.4/1.1, 10Y 1.5/0.6), fractured into angular fragments. Minor Lithology: SANDY SILT, dark gray, very fine, with fragments of firm clayey silt and thin sandy layers, normally graded. General Description: Observed disturbance apparently reflects fracturing in situ enhanced later by drilling.

889A 23P NO RECOVERY



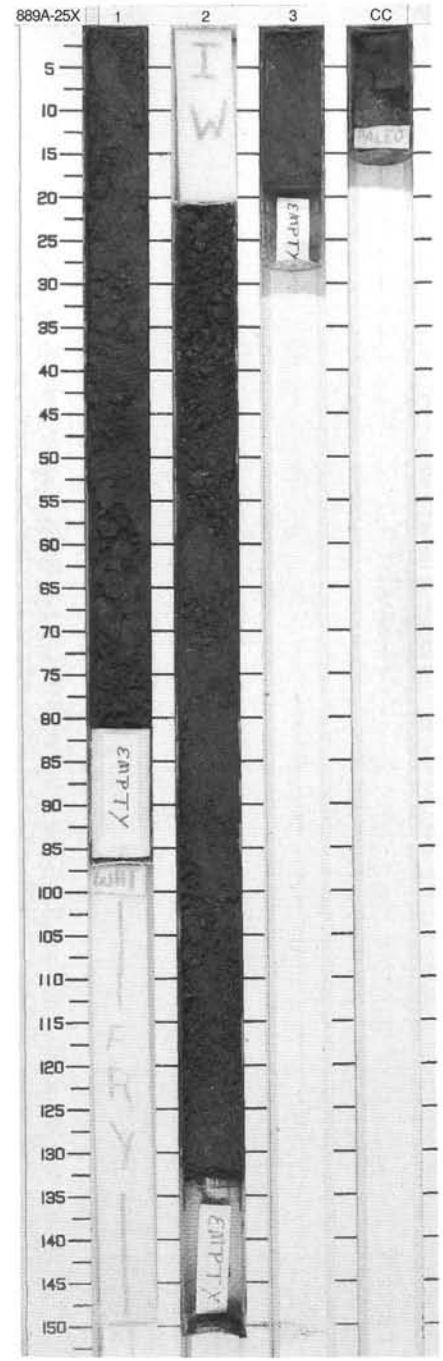
SITE 889 HOLE A CORE 24X CORED 187.8 - 197.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–7, CC	upper Pliocene to lower Pleistocene			S, I, M	3.1GY 2.4/0.6; 4.6GY 2.3/0.7; 2.3GY 1.2/0.5; 0.7GY 1.6/0.6; 1.8GY 1.7/0.6; 1.4GY 2.4/0.6	FIRM CLAYEY SILT Major Lithology: FIRM CLAYEY SILT, greenish black (0.7GY 1.6/0.6 to 4.6GY 2.3/0.7), very disturbed, fractured into firm angular fragments (10–60 mm), mostly disorganized with a fluid matrix of clayey silt. Shell fragments. Minor Lithology: SANDY SILT, greenish black (0.6GY 2.5/0.5 to 2.3GY 1.2/0.5), very disturbed, contains layers of very fine sand. General Description: Observed disturbance probably reflects fracturing in situ enhanced later by drilling. Part of the matrix material is reduced to a soupy consistency, and has washed through much of the core.



SITE 889 HOLE A CORE 25X CORED 197.3 - 206.8 mbsf

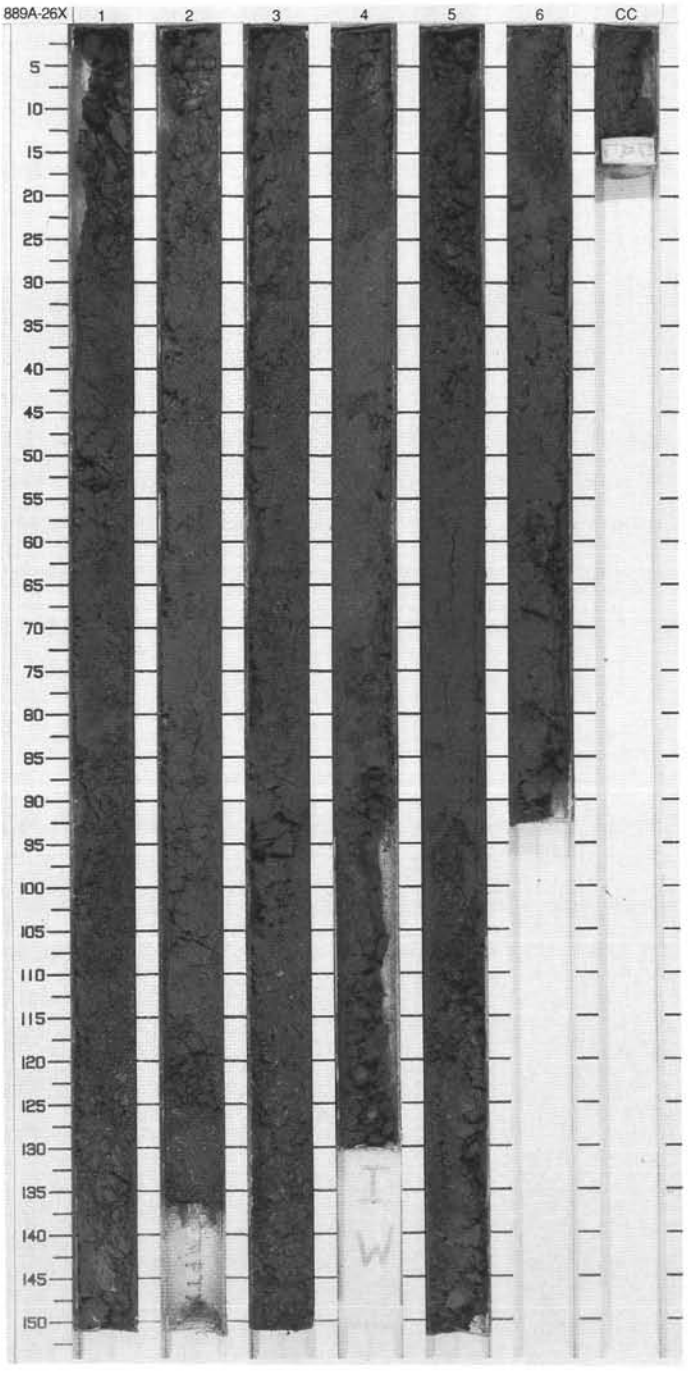
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1 2 3	Void	1 2 3 CC	upper Pliocene to lower Pleistocene		OWWWWWWWWWW OOOOO	S W W I S M	0.1GY 2.4/.6 2.2GY 2.5/0.6	FIRM CLAYEY SILT Major Lithology: FIRM CLAYEY SILT, very dark greenish gray to greenish black (1.8GY 2.7/0.6 to 4.7GY 2.2/0.5), fragmented into small (up to 60 mm), firm, angular fragments. General Description: Observed disturbance probably reflects fracturing in situ enhanced later by drilling.



SITE 889 HOLE A CORE 26X CORED 206.8 - 216.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–8		1	upper Pliocene			S		FIRM CLAYEY SILT
						S	1.7GY 3.7/0.7	Major Lithology: FIRM CLAYEY SILT, very dark to dark greenish gray (0.2GY 2.5/0.8 to 1.7GY 3.7/0.7), fractured into angular and rhomboidal fragments.
						S		
		2					0.8GY 2.9/0.7	General Description: Observed disturbance probably reflects fracturing in situ enhanced later by drilling.
3	Void							
		3					0.1GY 2.6/0.8	
		4					0.2GY 2.5/0.5	
						S		
						I		
		5					1.5GY 2.3/0.8	
		6						
		CC				M		

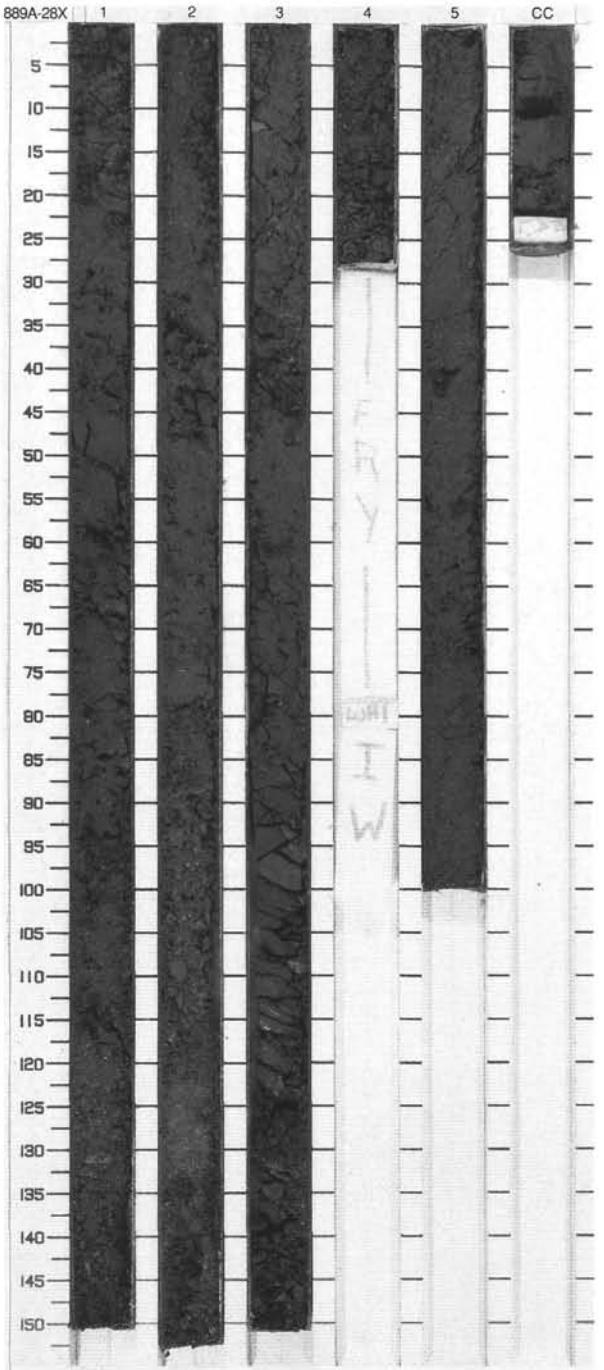
889A 27P NO RECOVERY



SITE 889 HOLE A CORE 28X CORED 217.3 - 226.8 mbsf

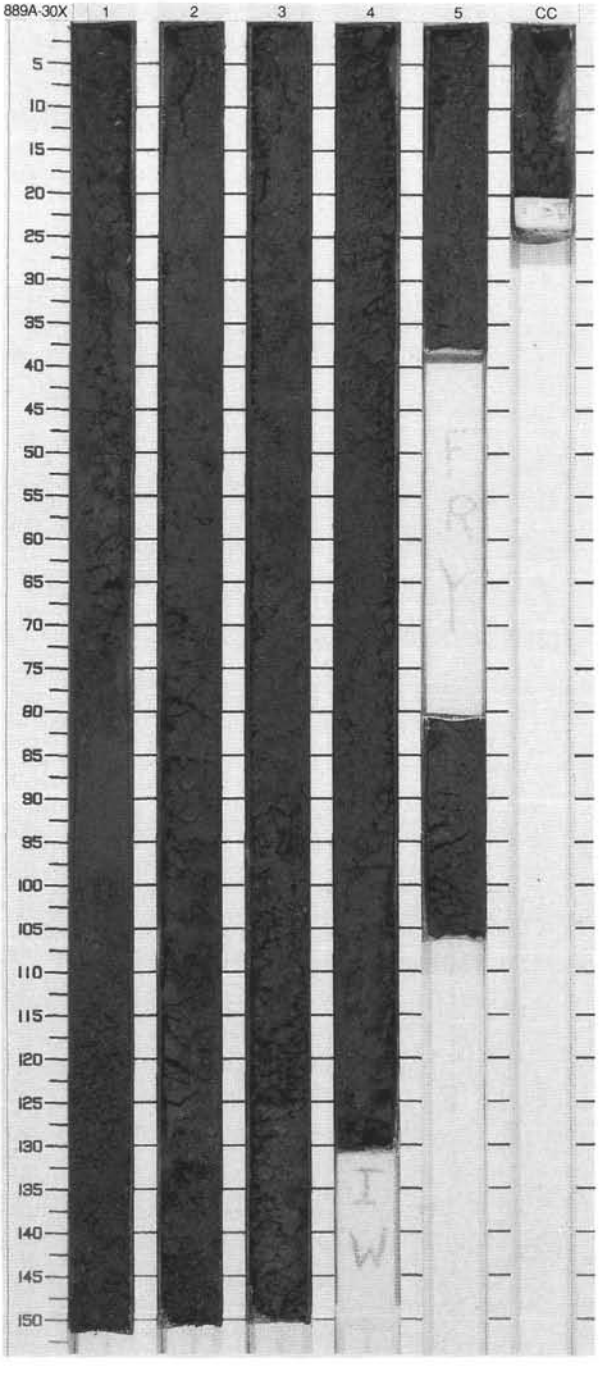
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–6		1	upper Pliocene		W W W W W		10.0Y 2.3/0.7	FIRM CLAYEY SILT Major Lithology: FIRM CLAYEY SILT, olive black (9.6Y 2.1/0.8 to 0.6GY 2.3/0.7), weakly lithified, fractured into angular fragments. General Description: Sediment recovered from Core 146-889A-28X consists of structureless firm clayey silt. Observed disturbance probably reflects fracturing in situ, which may be enhanced by drilling process.
		2			W W W W			
		3			W W W		0.6GY 2.3/0.7	
		4				W W I		
		5					9.6Y 2.7/0.8	
		CC				M		

889A 29P NO RECOVERY



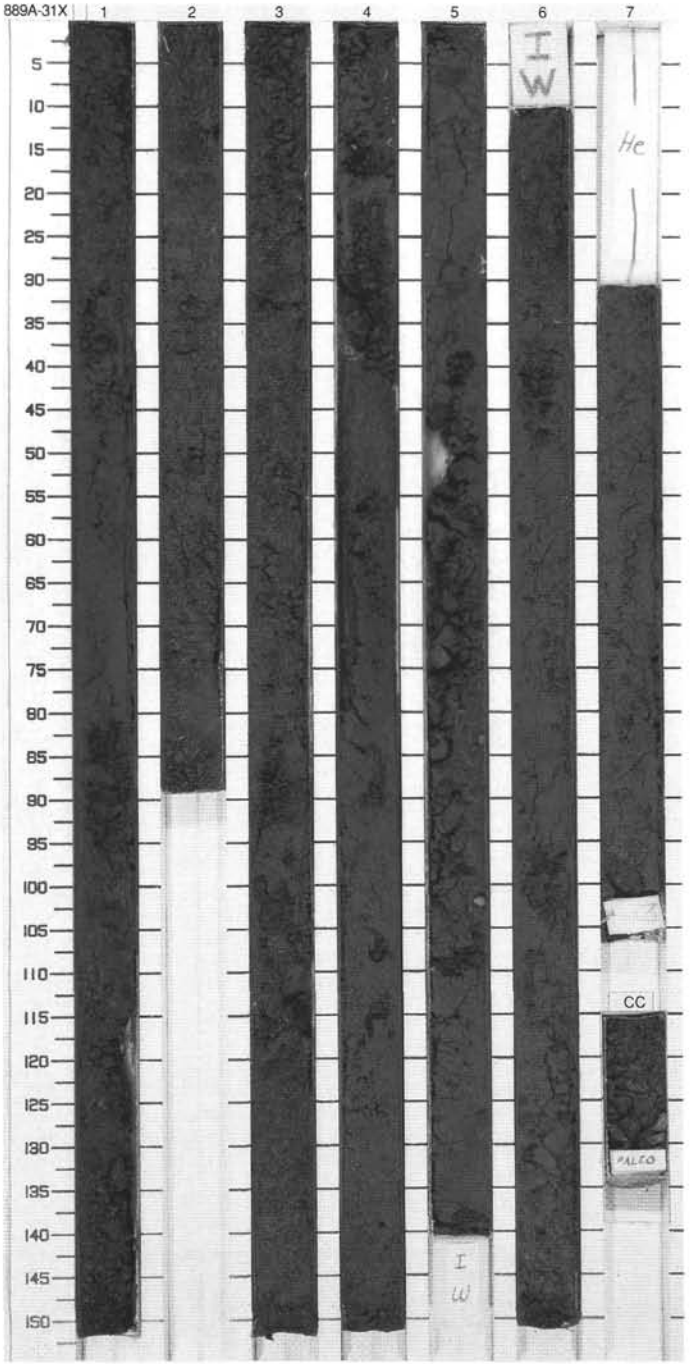
SITE 889 HOLE A CORE 30X CORED 227.8 - 237.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–7		1–5, CC	upper Pliocene		WWWWWWW	S	2.9GY 1.8/0.6	VERY FIRM CLAYEY SILT Major Lithology: VERY FIRM CLAYEY SILT, greenish black to dark olive gray (2.9GY 1.8/0.6 to 9Y 3/0.8), completely or pervasively fractured, with a small shell fragments in Section 3. Minor Lithology: VERY FIRM CLAY, dark olive gray (9Y 3/0.7), completely fractured in Core Catcher. General Description: Observed disturbance probably reflects deformation in situ enhanced later by drilling and handling.
							0.5GY 2.6/0.5	
							9Y 3/0.8	
					WWWWWWW		9.7Y 2.3/0.9	
						S		
						I		
					W	W	8.3Y 2.6/1.0	
						W		
					WW	M	9Y 3/0.7	



SITE 889 HOLE A CORE 31X CORED 237.2 - 246.7 mbsf

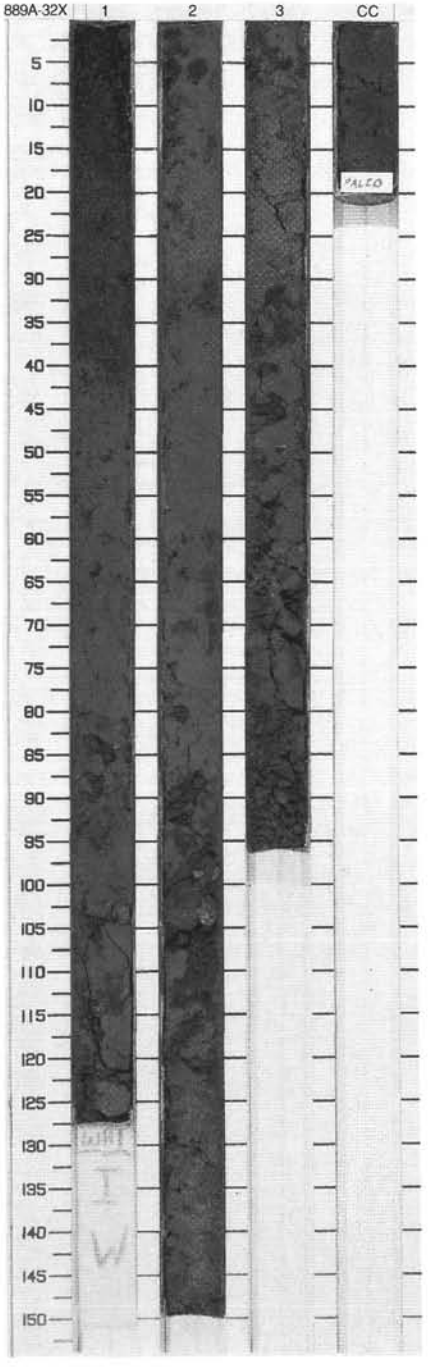
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	upper Pliocene		WWWWWWWW	S	9.8Y 2.3/1.0	FIRM CLAYEY SILT Major Lithology: FIRM CLAYEY SILT, olive black to greenish black (9.9Y 1.5/0.7 to 0.5GY 2.3/0.9), pervasively fractured, sometimes soupy. Color and texture are extremely uniform throughout the core. Fragments (2 mm to 1–2 cm across) are angular or subangular. Larger pieces (up to 5 cm across), very firm, observed at Section 5, 10–20 cm, and Section 6, 120–140 cm. The fine matrix reacts with HCl. General Description: Observed disturbance probably reflects deformation in situ enhanced later by drilling.
		2			WWWW		9.1Y 2.3/1	
		3			WWWWWWWW	S	0.5GY 2.3/0.9	
		4			OOO			
		5				I		
		6				I	8.4Y 2.7/1.0	
		7				W		
		CC				M	8.4Y 2.6/1.0	



SITE 889 HOLE A CORE 32X CORED 246.7 - 256.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–4		1, 2, 3, CC	upper Pliocene			S, S, S, W, M	9.9Y 2.1/1.0; 1.2GY 2.8/0.4; 1.4GY 3.1/0.3; 9.6Y 3.3/0.6; 2.1GY 1.3/0.9	VERY FIRM SILTY CLAY Major Lithology: VERY FIRM SILTY CLAY, dark olive to dark greenish gray (9GY 3.3/0.6 to 1.9GY 3.1/0.3), with scaly fabric, heavily fractured in Sections 2 and 3. A black sulfide-rich interval (about 2 mm-thick) occurs in Section 1, 102 cm. Minor Lithologies: FIRM CLAYEY SILT, olive black (9.9Y 2.1/1.0), heavily fractured into indurated fragments (up to 20 mm across). A sharp bottom contact of a layer of SILT within the silty clay is observed only in Section 1, 40 cm. General Description: The core is characterized by a change in color (from green to gray) and significant lithification (up to claystone) below Section 1, 40 cm.

889A 33P NO RECOVERY



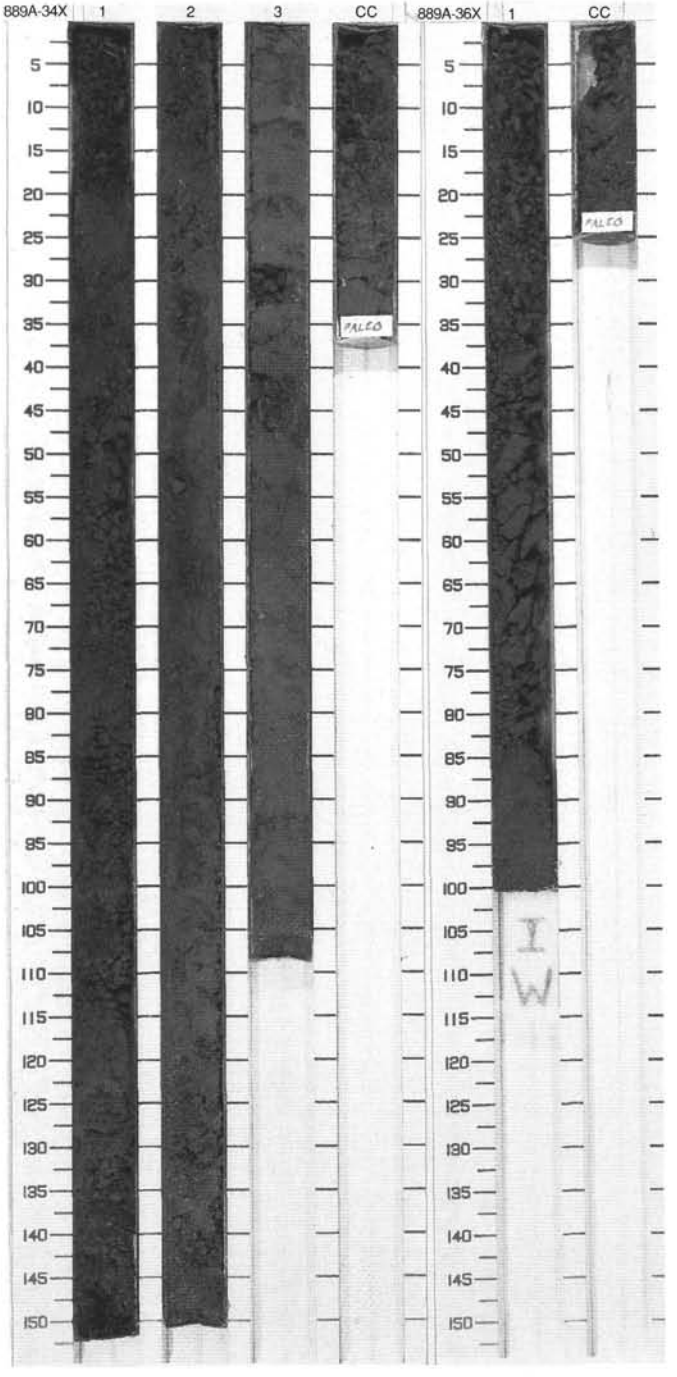
SITE 889 HOLE A CORE 34X CORED 257.2 - 265.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–4		1	upper Pliocene		WWWWWWWW	S	2.9Y 2.1/0.8	FIRM CLAYEY SILT Major Lithology: FIRM CLAYEY SILT, olive black to very dark greenish gray (2.9Y 2.1/0.8 to 1.0HY 2.7/0.7), fractured into angular to subangular fragments (1 mm to 2–3 cm), sometimes soupy, structureless.
		2					9.3Y 2.0/0.7	
		3					0.6GY 2.4/0.5	General Description: Drilling biscuits were observed in Section 3 and in Core Catcher.
							1.0GY 2.7/0.7	
		CC				S M	0.8GY 3.2/0.8	

889A 35P NO RECOVERY

SITE 889 HOLE A CORE 36X CORED 266.7 - 275.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	u. Pliocene			S	9.9Y 2.1/0.7	FIRM SILTY CLAY Major Lithology: FIRM SILTY CLAY, olive black to greenish black (9.9Y 2.1/0.7 to 0.5GY 2.2/0.7), soupy above Section 1, 15 cm, fractured into indurated fragments (5–45 mm across).
		CC				S I M	0.5GY 2.2/0.7	General Description: Observed disturbance apparently reflects fracturing in situ enhanced by drilling.



SITE 889 HOLE A CORE 37X CORED 275.2 - 284.1 mbsf

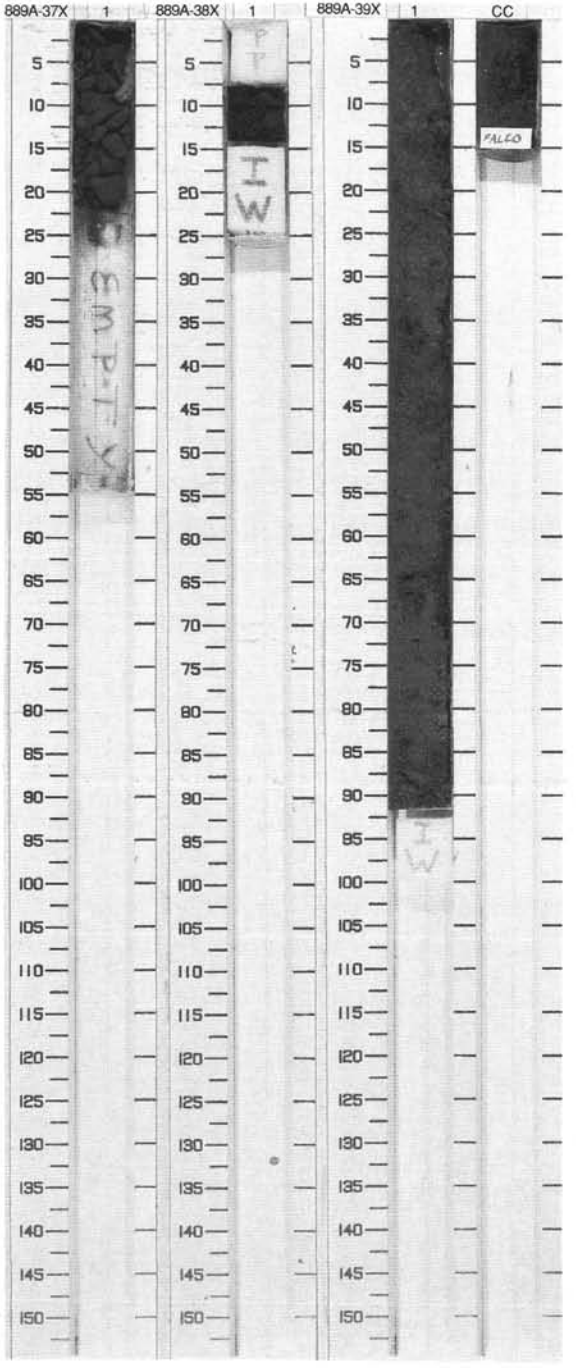
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1	u. Plio.		⊥			FIRM SILTY CLAY Major Lithology: FIRM SILTY CLAY, olive black (9.0Y 2.0/0.9), fractured into indurated fragments (up to 6 cm across). General Description: Very disturbed, structureless, fractured, firm silty clay. Smear slide was taken from Section 1, 5 cm. Lower 2 cm were given to paleontology.

SITE 889 HOLE A CORE 38X CORED 284.1 - 292.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1						FIRM SILTY CLAY Major Lithology: FIRM SILTY CLAY, black (8.6GY 0.5/0.2), fractured into indurated subangular fragments (3– 15 mm across), structureless. General Description: Observed disturbance probably reflects fracturing in situ enhanced by drilling. Fragments were given for paleontology. Smear slide at Section 1, 5 cm.

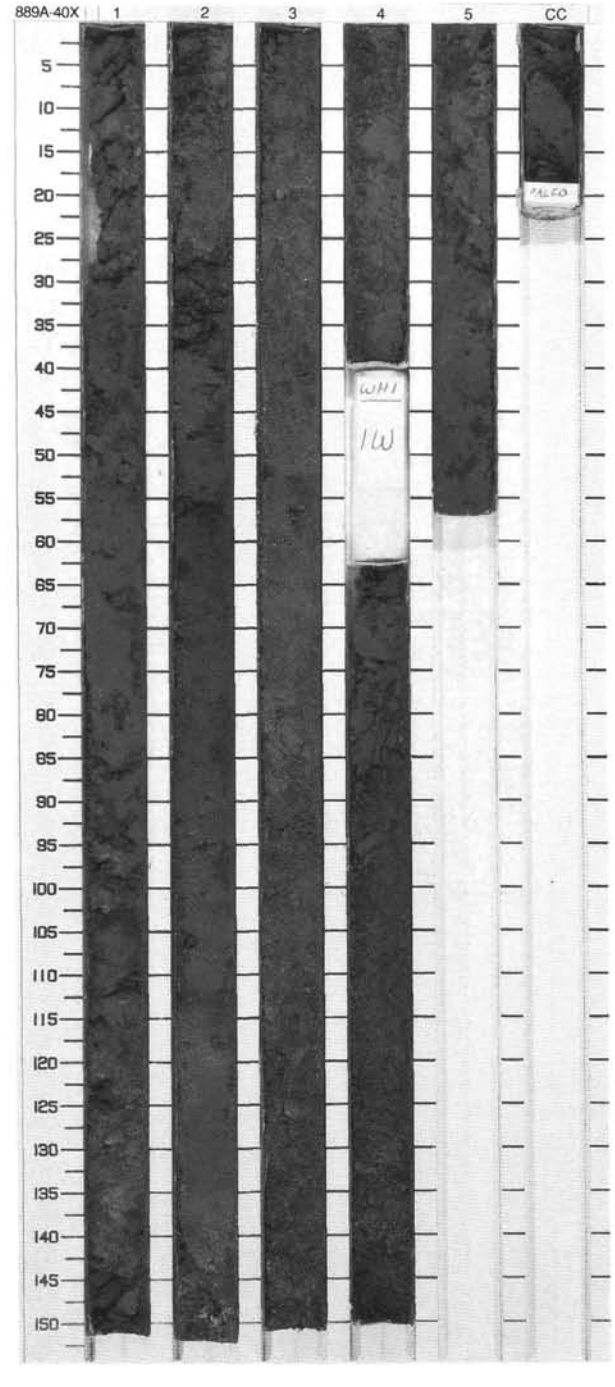
SITE 889 HOLE A CORE 39X CORED 292.8 - 301.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1 CC	u. Pliocene			M	8.5Y 3.2/0.7	FIRM CLAYEY SILT Major Lithology: FIRM CLAYEY SILT, dark olive gray (8.5Y 3.2/0.7), fractured into indurated fragments (up to 50 mm across), very disturbed.



SITE 889 HOLE A CORE 40X CORED 301.5 - 310.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	upper Pliocene			S S	1.6GY 3.1/0.6	FIRM CLAYEY SILT WITH GLAUCONY Major Lithology: FIRM CLAYEY SILT WITH GLAUCONY, greenish black to dark greenish gray (0.1GY 2.2/0.8 to 0.7GY 9.0/0.7), fractured into indurated fragments (up to 60 mm), structureless. Silt- to sand-size glaucony particles are dispersed in a homogeneous clayey silt matrix. General Description: Abundance of detrital glaucony, represented by light green spherules and subangular grains. As a rule, glaucony is associated with microglobular pyrite, likely to be of diagenetic origin.
2		2				S	0.2GY 3.0/0.7 to 2.0GY 3.3/0.6	
3		3					1.7GY 2.8/0.5	
4		4				I W	0.2GY 2.8/0.6	
5		5				I	0.2GY 3.2/0.7 to 0.9GY 2.4/0.8	
6		CC				S M	1.6GY 2.7/0.7	
7								

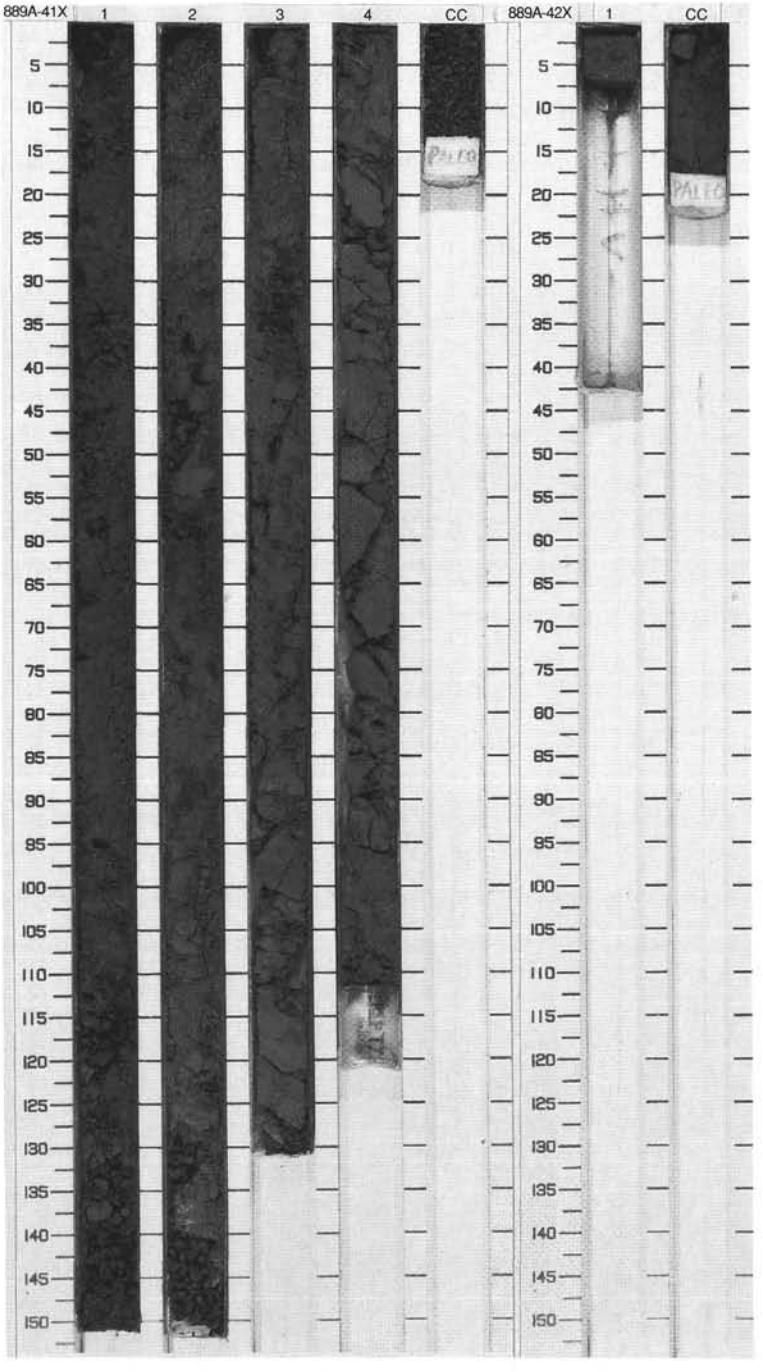


SITE 889 HOLE A CORE 41X CORED 310.5 - 319.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–5		1, 2, 3, 4, CC	upper Pliocene		W	S, I, T, S, S, M	3.8GY 1.9/0.6; 1.7GY 2.7/0.7; 2.6GY 2.9/0.7; 0.5GY 2.7/0.8; 1.0GY 2.8/0.8; 1.2GY 2.8/0.7; 1.3GY 3.1/0.7	FIRM CLAYEY SILT WITH GLAUCONY Major Lithology: FIRM CLAYEY SILT WITH GLAUCONY, greenish black to very dark greenish gray (1.0GY 1.9/0.6 to 1.3GY 3.1/0.7), fractured into indurated fragments (1–3 mm across, at Section 4 up to 10 cm across). General Description: Significant amounts of detrital glaucony are present throughout the entire core.

SITE 889 HOLE A CORE 42X CORED 319.5 - 328.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	Void	1, CC	u. Plio.		W	S, I, M	9.2Y 2.7/0.8	FIRM CLAYEY SILT WITH GLAUCONY Major Lithology: FIRM CLAYEY SILT WITH GLAUCONY, black to dark olive gray (1.2G 0.8/0.7 to 9.2Y 2.7/0.8), with one isolated angular pebble of siltstone with calcareous cement. General Description: Sediment is completely soupy at Section 1, 0–5 cm.



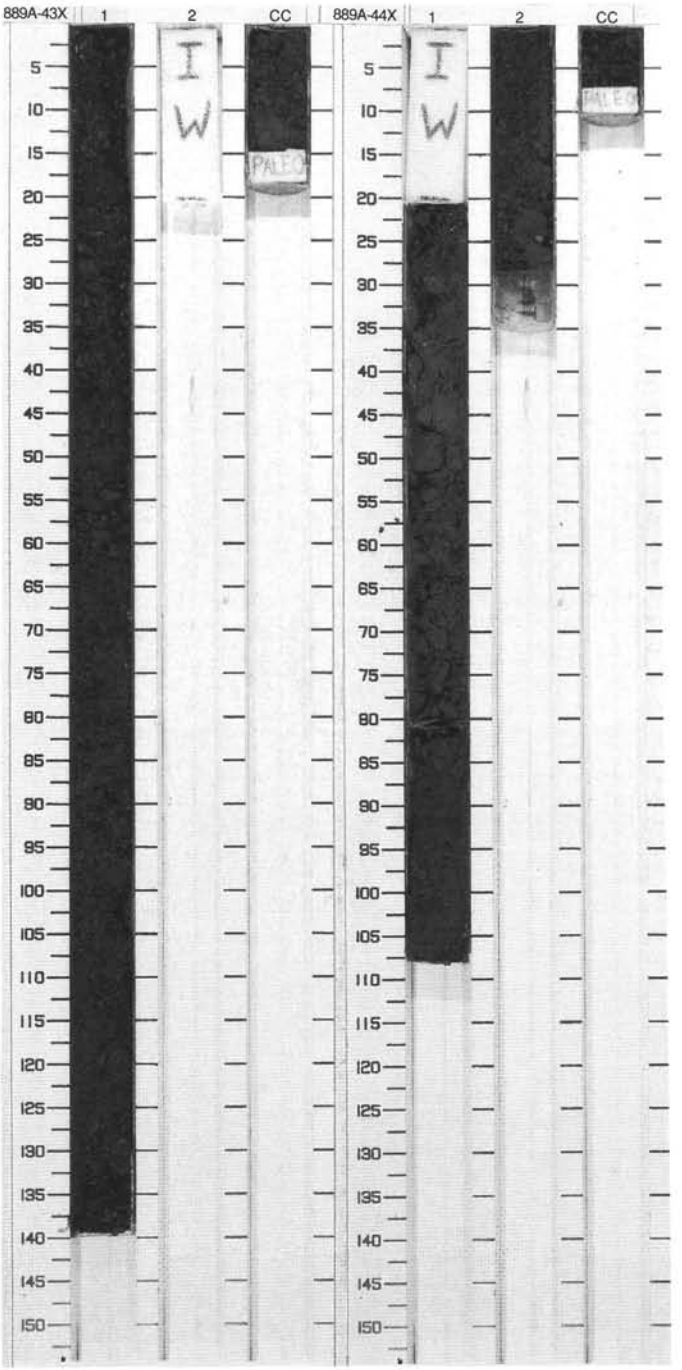
SITE 889 HOLE A CORE 43X CORED 328.4 - 337.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1 2 CC	upper Pliocene		WWWWWWWW	I S M	9.9Y 2.3/0.7 9.3Y 2.1/0.7	FIRM CLAYEY SILT Major Lithology: FIRM CLAYEY SILT, olive black (9.9Y 2.3/0.7), very disturbed, with indurated, sharp, angular fragments (10 mm across) and rare glauconite grains. General Description: Observed disturbance probably reflects deformation in situ enhanced by drilling.

SITE 889 HOLE A CORE 44X CORED 337.2 - 345.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1 2 CC	upper Pliocene		WWW W OOO	I S S M	0.2GY 2.5/0.7 10Y 1.7/0.6	FIRM CLAYEY SILT WITH GLAUCONY Major Lithology: FIRM CLAYEY SILT WITH GLAUCONY, greenish black to olive black (0.2GY 2.5/0.7 to 10Y 1.7/0.6), heavily fractured into indurated fragments (3–10 mm up to 5 cm across), structureless.

889B 1R NO RECOVERY

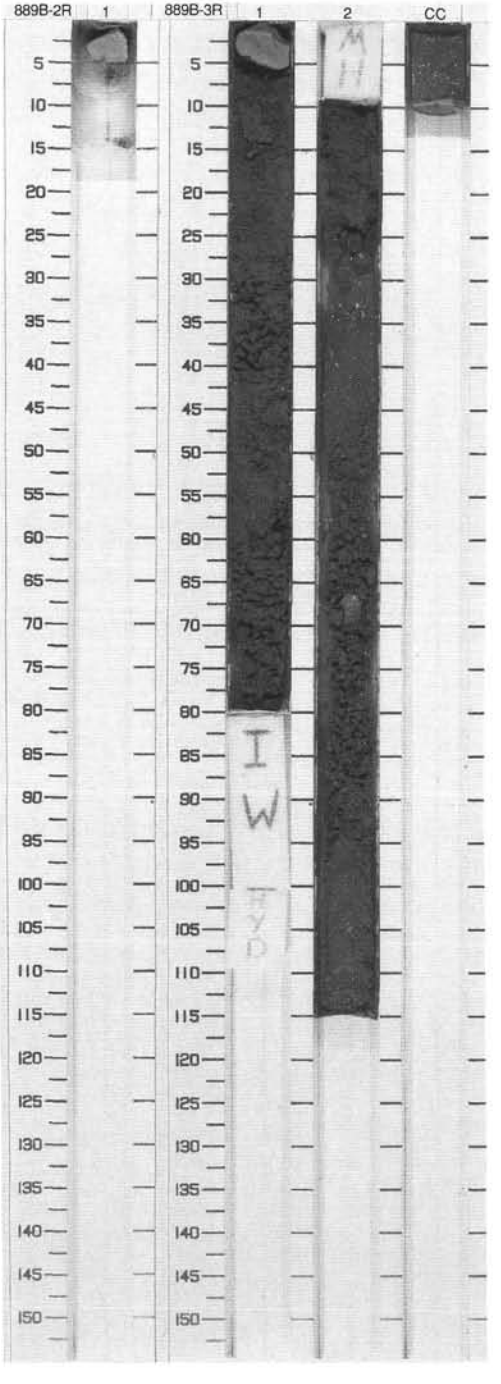


SITE 889 HOLE B CORE 2R CORED 206.4 - 215.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
								CARBONATE CONCRETION Major Lithology: CARBONATE CONCRETION, yellowish gray (6.7Y 7.8/0.7), with subparallel layering spaced 2–3 mm and an irregular surface. General Description: A thin section of the concretion was taken at 0–5 cm.

SITE 889 HOLE B CORE 3R CORED 215.9 - 225.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1 2		1 2 CC	upper Pliocene			S W_WI M	1.4GY 2.4/0.5 2.4 GY 1.4/0.3	FIRM CLAYEY SILT and CLAYEY SILT Major Lithologies: FIRM CLAYEY SILT, greenish black (2.4GY 1.4/0.3), soupy, fractured. Some integral, indurated pieces reach 5 cm to15 cm in length, individual coherent fragments are up to 3–5 cm long. No internal structures observed. CLAYEY SILT, olive black (9.7Y 2.1/0.7), soft, very disturbed, contains dispersed fine sand. Minor Lithology: CARBONATE CONCRETION, dark greenish gray (3.0G 3.6/0.2), 3–5 cm in diameter, with irregular surface. Observed in the uppermost part of Section 1. General Description: Observed disturbance apparently reflects fracturing in situ enhanced later by drilling.

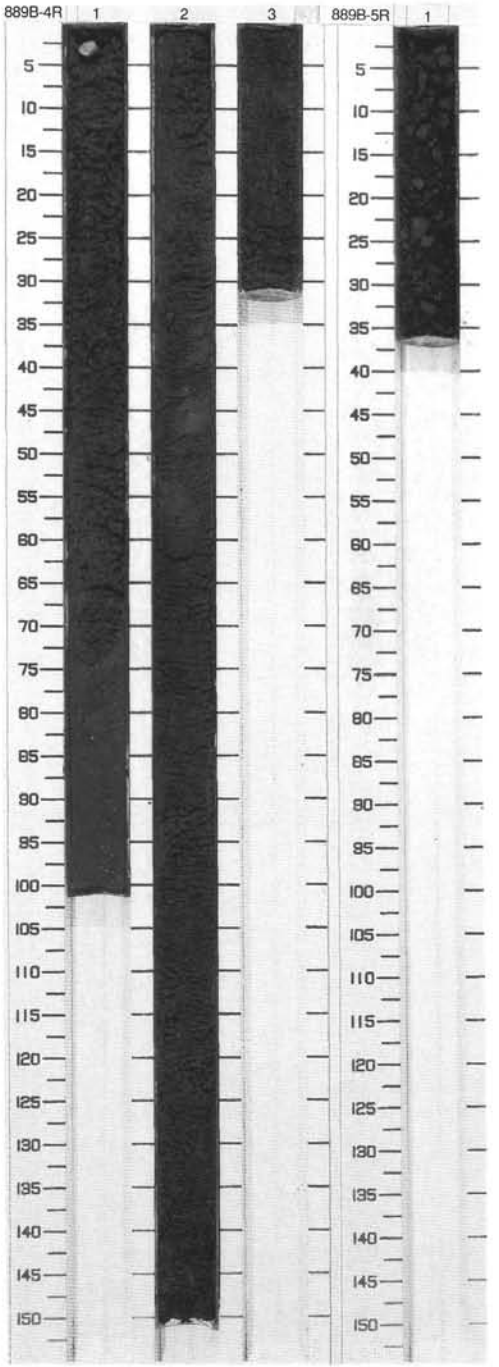


SITE 889 HOLE B CORE 4R CORED 225.3 - 234.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–2		1, 2, CC	upper Pliocene			S, S, M	1.6GY 2.1/0.5; 9.8Y 1.9/0.4; 0.9GY 2.3/0.4; 10Y 2.2/0.7	FIRM CLAYEY SILT Major Lithology: FIRM CLAYEY SILT, very dark gray (close to N2–N3), fractured. Semicoherent, indurated pieces up to 2 cm across. Some longer semicoherent intervals including one in Section 2, 35–60 cm. Minor Lithology: CARBONATE CONCRETION, light gray, 1.5–2 cm in diameter, with irregular surface. Observed in the uppermost part of Section 1. General Description: Observed disturbance probably reflects fracturing in situ enhanced later by drilling.

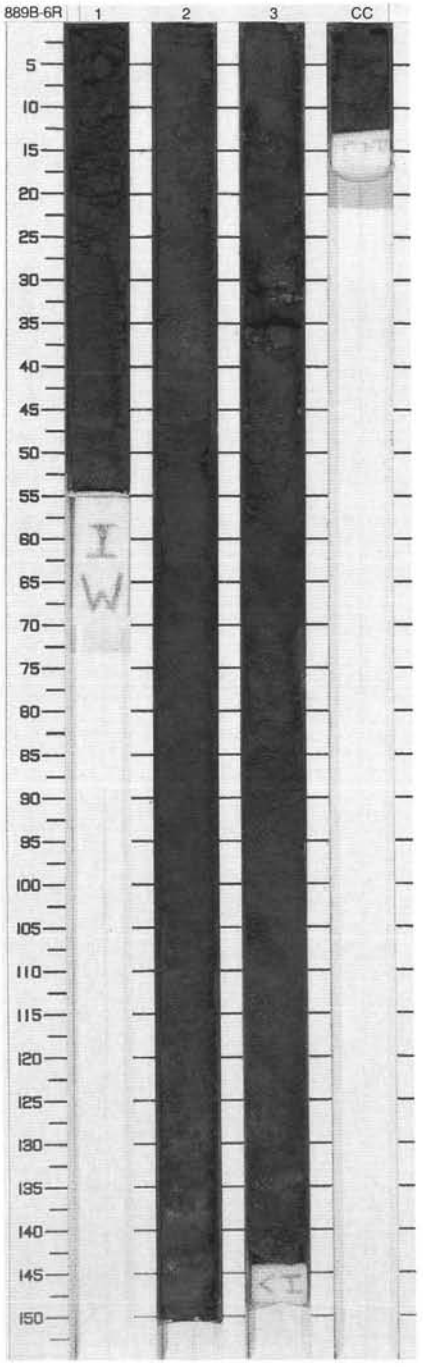
SITE 889 HOLE B CORE 5R CORED 234.8 - 244.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1, CC	u.Plio			M	9.9Y 1.1/0.4	FIRM CLAYEY SILT Major Lithology: FIRM CLAYEY SILT, olive black (9.9Y 1.1/0.4), fractured. Coherent fragments reach 4 cm across.



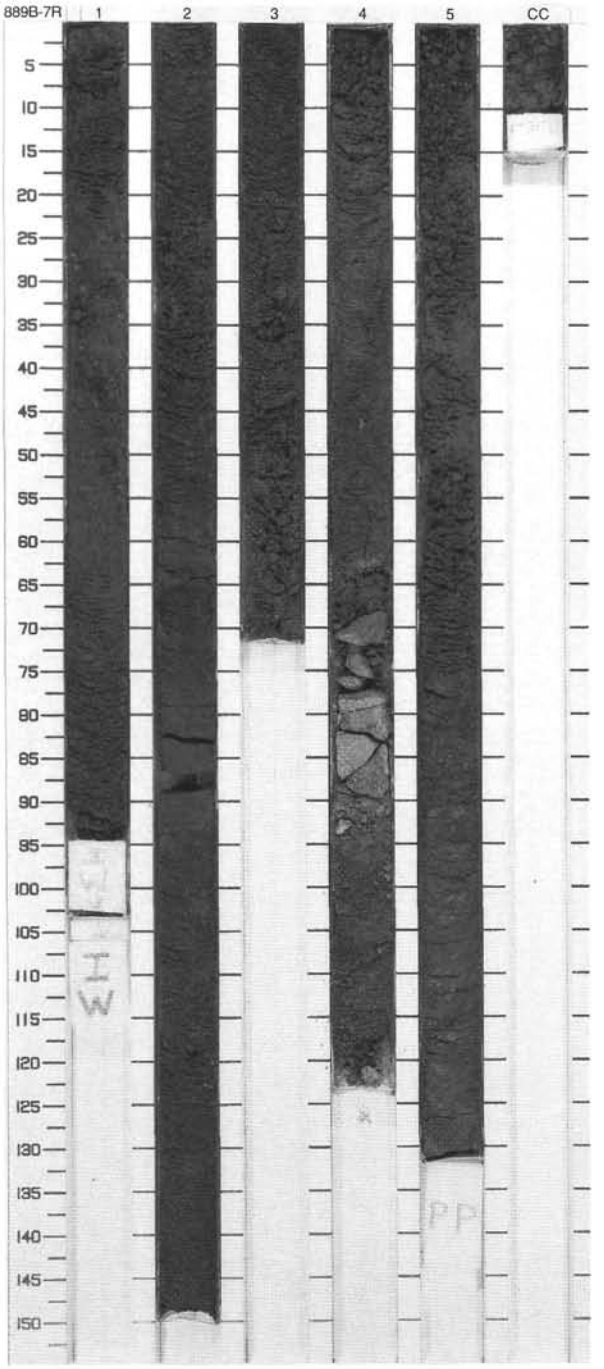
SITE 889 HOLE B CORE 6R CORED 244.3 - 253.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	upper Pliocene			S S	9.1Y 2.2/1.1	CLAYEY SILT and SILTY CLAY Major Lithologies: CLAYEY SILT, olive black (7.4Y 2.1/1.0 to 9.1Y 2.2/1.1), with sandy patches and isolated fragments of firm clayey silt. At Section 2, clayey silt contains shell fragments and aggregates of sponge spicules. SILTY CLAY, very dark olive gray (9.5Y 2.8/0.6), plastic and uniform. Minor Lithology: SANDY SILT, olive black (7.8Y 2.2/0.9), as very thin layers at the bottom of the core. General Description: All sediments of the core show weak reaction with HCl.
2		2				I W	9.5Y 2.8/0.6	
3		3				S	7.7Y 2.3/0.9	
		CC				S S		
						M		



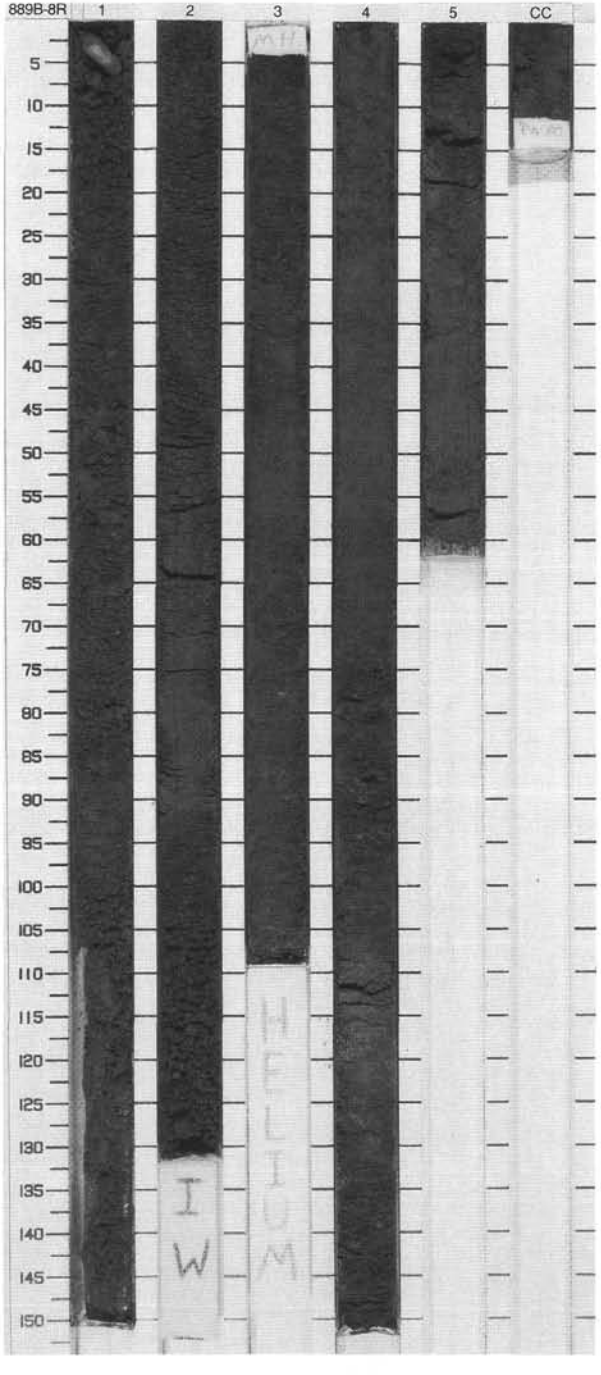
SITE 889 HOLE B CORE 7R CORED 253.9 - 262.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–6		1–5, CC	upper Pliocene			I; S S; W M	9.4Y 1.6/0.4; 9.2Y 1.8/0.5; 8.6Y 1.9/0.9; 9.9Y 1.1/0.4; 1.1GY 2.3/0.5; 9.1Y 3.6/0.7; 1.1GY 2.3/0.5	CLAYEY SILT and SILTY CLAY Major Lithologies: CLAYEY SILT, very homogeneous, very dark greenish gray to greenish black (about 1GY 2/1). The structureless sediment shows shell fragments (Section 5, 65–95 cm) and portions of firm clayey silt, shattered to fragments of <1 cm in diameter. SILTY CLAY, dark olive black (about 9Y 2/1), is dominant in the upper three sections. Firm silty clay fragments are swimming in a clayey matrix, which is soupy at Section 1, 20–66 cm. Minor Lithology: An interval with CARBONATE CONCRETIONS up to 7.5 cm in diameter occurs at Section 4, 62–91 cm. The lithified material is olive gray (9.1Y 3.6/0.7), fractured, and shows horizontal lamination on a mm-scale. General Description: The fine-grained sediment recovered at Core 146-889B-7R is slightly fractured in most sections. An interval in Section 4, 62–91 cm is remarkable for the massive carbonate concretions present there.



SITE 889 HOLE B CORE 8R CORED 262.7 - 271.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–6		1	upper Pliocene	©			0.6GY 2.2/0.5	CLAYEY SILT and SILTY CLAY Major Lithologies: Dark olive gray (about 9Y 3/1) CLAYEY SILT and olive black (about 9Y 2/1) SILTY CLAY. In many areas these are mixed, probably tectonically and also by the drilling and handling disturbance, to produce a swirled and/or mottled effect. Minor Lithologies: At the base of Section 4 two minor lithologies are interbedded with the CLAYEY SILT. At Section 4, 104 cm to 118 cm, CLAY is less dark colored (olive gray, 8.7Y 3.4/0.5), and at Section 4, 120 cm to 130 cm, PYRITE-RICH SILT occurs. These lithologies form less than 5% of the core. General Description: Observed disturbance of the core material probably reflects deformation in situ enhanced by drilling. Defined layers are horizontal, except an inclined contact at Section 2, 90–100 cm. The latter seems to reflect convolute deformation.
		2				S	0.9 GY 2.7/0.4	
						S		
						I W		
		3					8.7Y 2.5/0.7	
						I		
		4					9.1Y 2.1/0.9	
						S		
		5				S	8.4Y 2.6/0.4	
		CC				M		



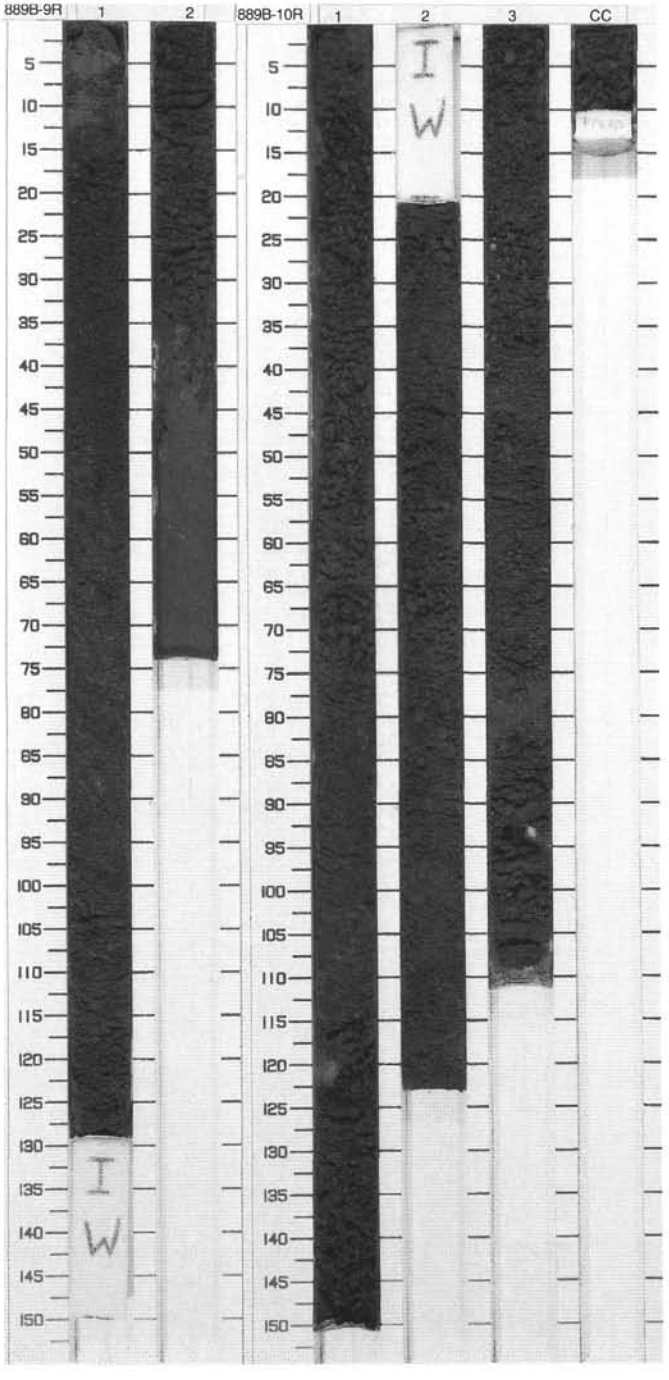
SITE 889 HOLE B CORE 9R CORED 271.6 - 280.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1, 2		1, 2, CC	upper Pliocene			I, M	8.7Y 1.5/0.6; 9.1Y 1.9/0.7; 7.8Y 2.1/0.7	SILTY CLAY TO CLAYEY SILT and CLAY Major Lithologies: SILTY CLAY TO CLAYEY SILT, olive black (about 9Y 2/1), slightly fragmented due to drilling process. Indurated fragments are present in a clayey, sometimes soupy (Section 2, 34–74 cm) matrix. Sedimentary structures are not observed; a single shell fragment occurs at Section 1, 55 cm. At the top of the core (Section 1, 0–11 cm), CLAY of very dark olive gray to olive black color (8.7Y 2.5/0.5) is observed. General Description: Structureless silty clay to clayey silt and clay is found in Core 146-889B-9R.

SITE 889 HOLE B CORE 10R CORED 280.4 - 289.3 mbsf

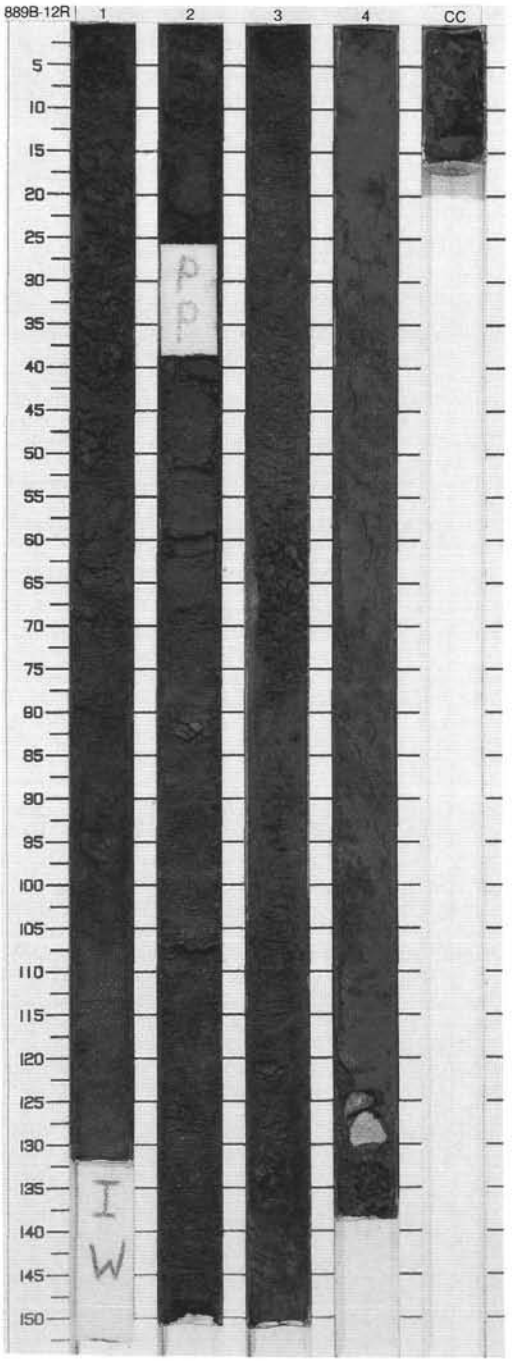
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1, 2, 3		1, 2, 3, CC	upper Pliocene			S, I, M	0.5GY 1.8/0.6 to 9.5Y 1.3/0.5; 9.1Y 2.0/0.7; 7.9Y 1.0/0.1	FIRM SILTY CLAY Major Lithology: FIRM SILTY CLAY, olive black (about 9Y 2/1), slightly mixed up by deformation and drilling. Transitional fining upward sequence from homogeneous soft silty clay (Section 1, 119 cm upward) to silty clay, fractured, with indurated fragments (<1 cm in diameter), supported by a firm matrix. General Description: Recovered sediment is homogeneous FIRM SILTY CLAY. Sedimentary features are not preserved. Fracturing shows no preferred orientation.

889B 11R NO RECOVERY



SITE 889 HOLE B CORE 12R CORED 298.2 - 307.1 mbsf

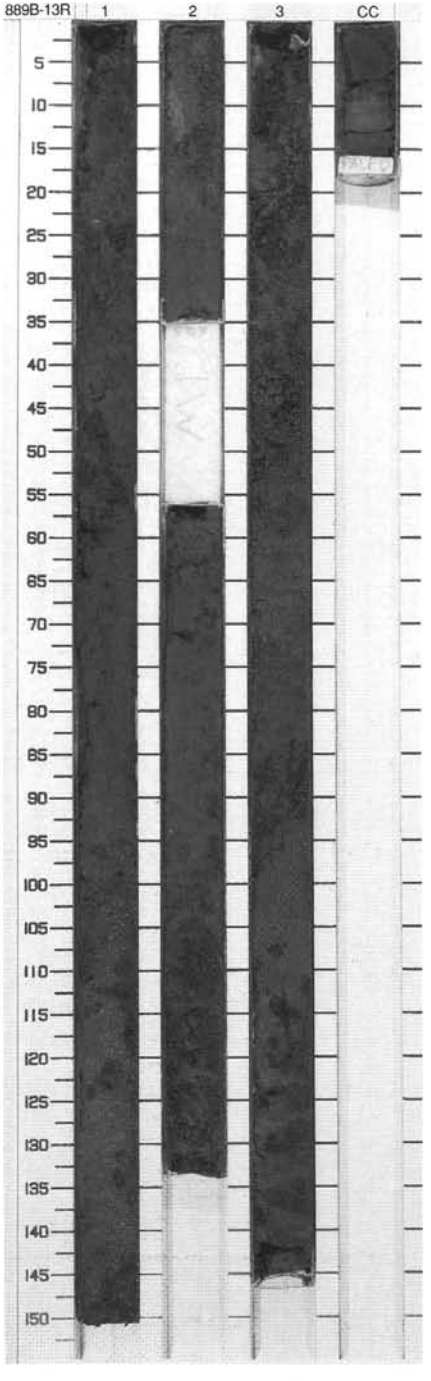
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–6		1	upper Pliocene			S	1.5 GY 2.8/0.7	CLAYEY SILT Major Lithology: CLAYEY SILT, very dark greenish gray to dark olive gray (about 1.5GY 3/1 to 9Y 3/1). Intervals of fragmented firm clayey silt *intercallate with semiplastic* intervals. The latter contain isolated, angular, firm fragments (up to 5 cm) with the same color and composition.
						S		
						I	4.9Y 2.3/0.9	
						W		
		2					8.8Y 2.7/1.0	
						S S		
							9.7Y 2.0/0.9	
		3				S	1.0GY 1.4/0.6	*Minor Lithology:* CARBONATE CONCRETION, light gray pieces up to 4 cm, subrounded, with chert inclusions. In Section 1, 45 cm, a single black pebble 1.5 cm across (dropstone ?), partly coated by pyrite.
						S		
						S	9.7Y 1.8/0.7	
						S		
		4					0.2GY 1.7/0.7	General Description: Changes of color and softness of the sediment throughout the entire core, with no observed variation in mineral composition.
						S	1.2GY 2.5/0.8	
		CC				M		



SITE 889 HOLE B CORE 13R CORED 307.1 - 315.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–4		1	upper Pliocene			S S	1.7GY 2.2/0.8	FIRM CLAYEY SILT WITH GLAUCONY and CLAYEY SILT WITH GLAUCONY Major Lithologies: FIRM CLAYEY SILT WITH GLAUCONY, very dark greenish gray (about 1GY 3/1), fractured into small angular fragments. CLAYEY SILT WITH GLAUCONY, greenish to olive black (about 1GY 2/1 to 9Y 2/1), soft and plastic, with small angular fragments of firm clayey silt. Sediments of the entire core contain glaucony in the form of dark green spherules and subangular grains, abundant in Sections 1, 55–85 cm, Section 3, 110–146 cm, and Section CC.
						S	0.5GY 2.7/0.8	
		2				I	1.4GY 2.6/0.7	
							0.9GY 2.2/0.8	
		3					1.6GY 2.5/0.7	
							0.5GY 2.8/0.8	
		CC				S M	2.4GY 2.6/0.7	

General Description:
Sediments in Section 1 seem to be an analogue to those in Section 146-889A-40H-1. A carbonate concretion is present in the firm clayey silt at the top of Section 3.

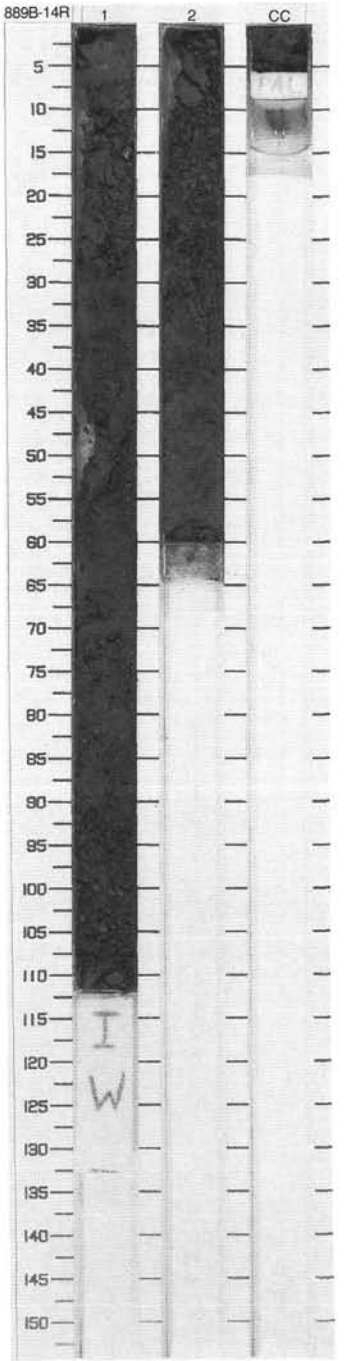


SITE 889 HOLE B CORE 14R CORED 315.8 - 324.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	upper Pliocene	©		S		FIRM CLAYEY SILT and CLAYEY SILT
							0.3GY 2.1/0.9	
						S		Major Lithologies: FIRM CLAYEY SILT, greenish black (0.3GY 2.1/0.9), heavily fractured. CLAYEY SILT, very dark greenish gray (1.9GY 2.9/0.8), with dispersed sand-size glauconite grains; soft and plastic, as a rule with small angular fragments of firm clayey silt.
						I		
		2					0.3GY 2.1/0.9	
2		CC				M		

Minor Lithology:
CARBONATE CONCRETIONS, dark gray, broken into angular pieces, restricted to inclined (45°) layer in the Section 1, 10–15 cm.

General Description:
Evidence of bedding disruption and tectonic disturbance can be seen, indicating that fracturing is likely to represent in situ fracturing enhanced by drilling.

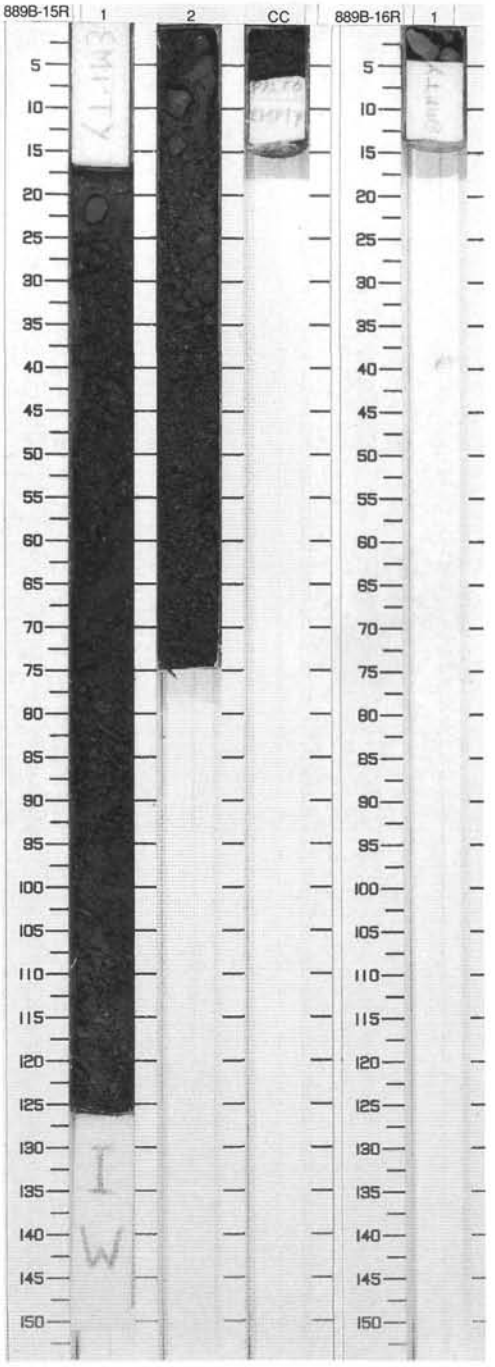


SITE 889 HOLE B CORE 15R CORED 324.6 - 333.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1 2		1 2 CC	upper Pliocene			S I S M	0.6GY 1.7/0.7 1.0GY 1.5/0.5	FIRM CLAYEY SILT Major Lithology: FIRM CLAYEY SILT, greenish black (about 1GY 1.5/0.6), heavily fractured. Minor Lithologies: SANDY SILT, very dark greenish gray or greenish black, soft, with small (up to 5 mm) angular fragments of firm clayey silt in Section 2, 0–13 cm. Contains a subangular carbonate-cemented mud clast with feldspars, glaucony, and foraminifers. SAND is found in a dipping layer in Section 1, 50 cm. General Description: A more coherent layer of fractured, firm clayey silt, 2 cm thick and dipping at 45°, is present in Section 1, 60–70 cm.

SITE 889 HOLE B CORE 16R CORED 333.3 - 342.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
								CARBONATE-CEMENTED CLAYEY SILTSTONE Major Lithology: CARBONATE-CEMENTED CLAYEY SILTSTONE, gray, broken into angular fragments (up to 4 cm long). General Description: 3 cm recovered.

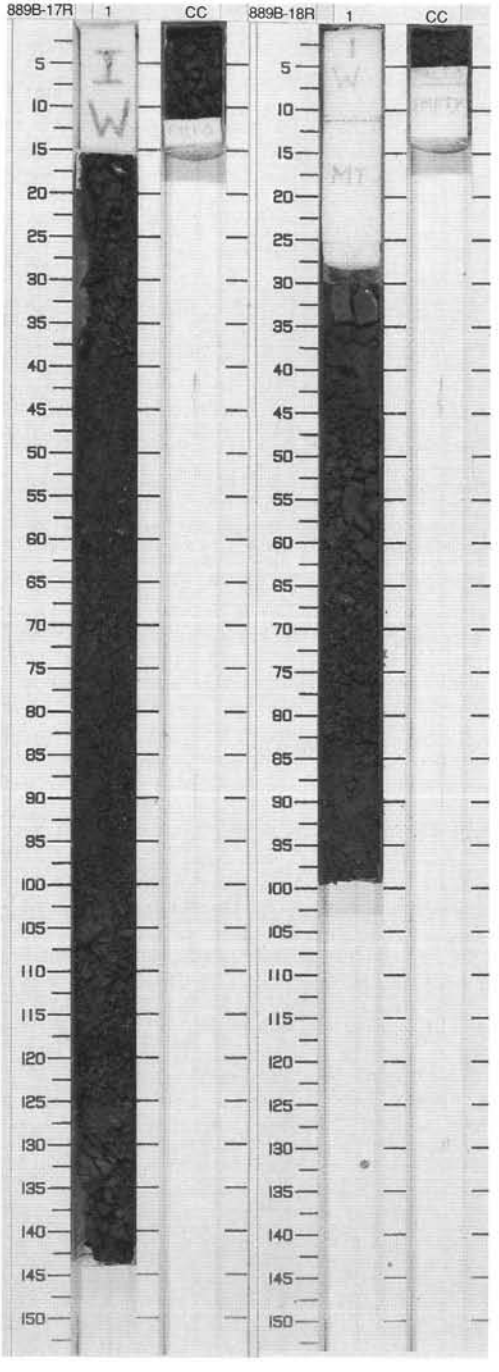


SITE 889 HOLE B CORE 17R CORED 342.1 - 351.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1 CC	upper Pliocene			I S S M	9.5GY 0.4/0.5 to 0.8GY 1.7/0.7	FIRM CLAYEY SILT Major Lithology: FIRM CLAYEY SILT, black to greenish black (9.5GY 0.4/0.5 to 0.8GY 1.7/0.7), with indurated fragments up to 4 cm across. Minor Lithology: CARBONATE-CEMENTED SILT, dark gray, at the top of the Section 1. One piece contains a shell fragment. At Section 1, 136–138 cm, carbonate cementation is also observed.

SITE 889 HOLE B CORE 18R CORED 351.0 - 359.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1 CC	u. Pliocene	G		I S M	6.6GY 0.9/1.0	FIRM CLAYEY SILT Major Lithology: FIRM CLAYEY SILT, greenish black (6.6GY 0.9/1.0 to 1.4GY 2.3/0.9), intensively fractured into angular fragments. Contains glaucony, as spherules (up to 3 mm in diameter) and as subangular grains. A single carbonate-bearing mud clast is observed at Section 1, 36 cm.



SITE 889 HOLE B CORE 19R CORED 359.9 - 368.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	u. Plio	©		T M T		CARBONATE CONCRETIONS

Major Lithology:
CARBONATE CONCRETIONS of two principal types: 1. Strongly lithified, dark greenish gray (8.8 GY 3.8/0.8), with very fine clastic material. As a rule, these have very smooth, chert-like, fracture surfaces. 2. Weakly lithified, dark olive gray (9.1Y 2.9/0.6), with coarser material (fine to medium sand).

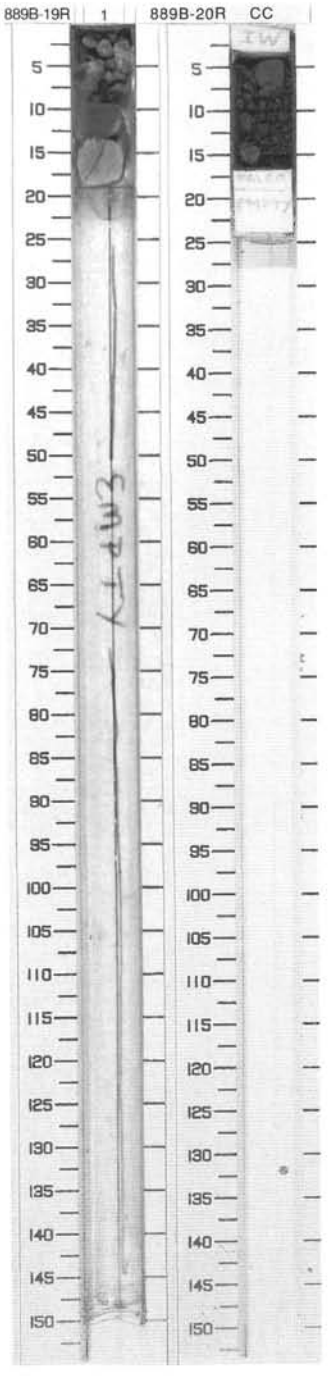
SITE 889 HOLE B CORE 20R CORED 368.7 - 377.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		CC						FIRM CLAYEY SILT

Major Lithology:
FIRM CLAYEY SILT, greenish black (2.2GY 1.1/0.6), fractured.

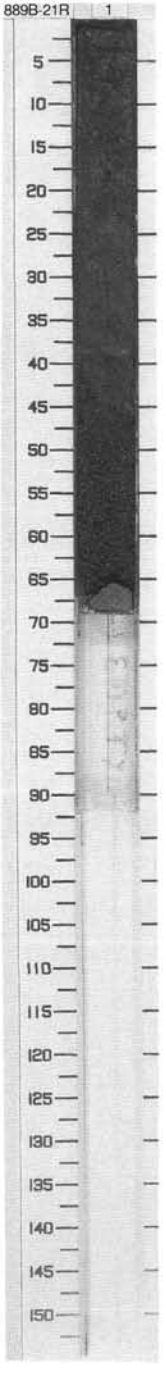
Minor Lithology:
Two types of CARBONATE CONCRETIONS are observed in the core. 1) Medium gray, cemented strongly, fine-grained. 2) Poorly lithified, very dark greenish gray, with sand-sized particles.

General Description:
A smear slide was taken at 5 cm, and a paleontology sample was taken at the base of the Core Catcher.



SITE 889 HOLE B CORE 21R CORED 377.6 - 386.5 mbsf

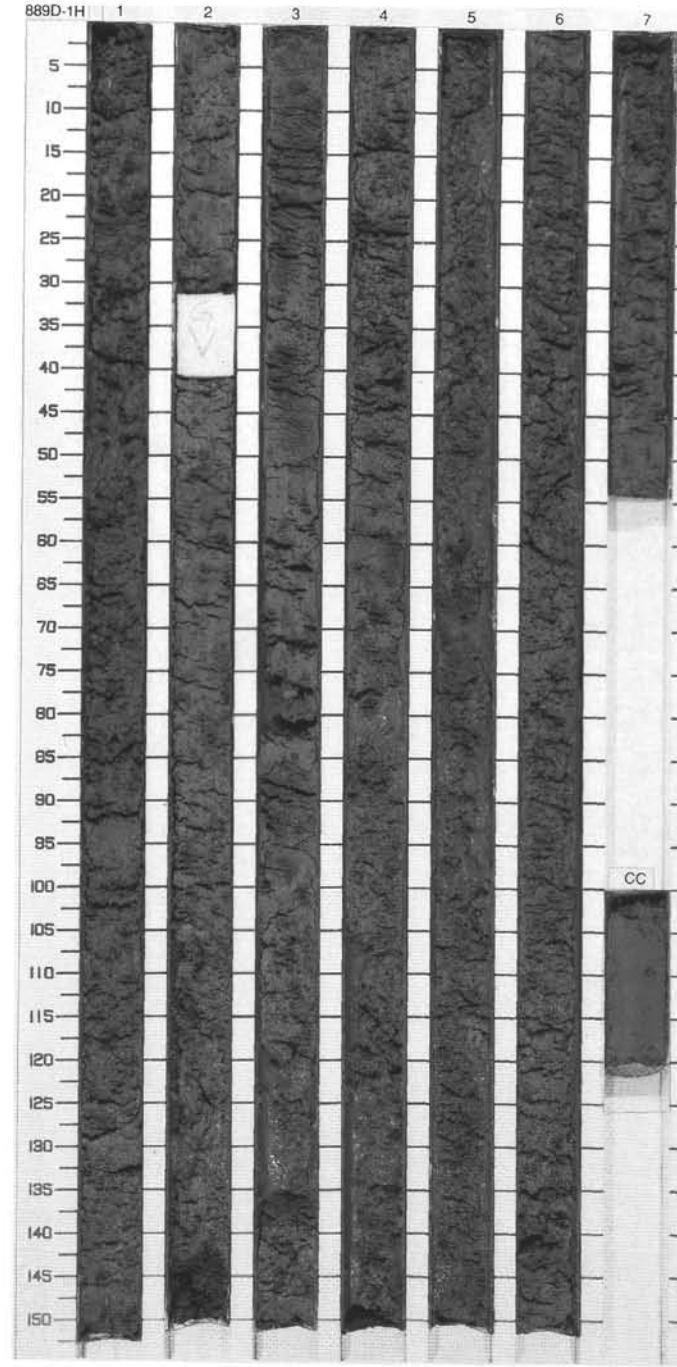
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1 CC				S M	9.1Y 1.9/0.8	FIRM CLAYEY SILT Major Lithology: FIRM CLAYEY SILT, olive black (about 9Y 2/0.8), fractured into indurated fragments up to 1 cm across. The silt contains up to 30% sand-sized pellets. Minor Lithology: CARBONATE CONCRETION, light gray when dry, dark gray when wet, with bioturbated fine sand-size material. A 1 cm x 0.5 cm nodule of glauconite, and a number of smaller grit-sized nodules are present in Section 1–8 cm. General Description: Subangular clast of noncarbonate siltstone and dispersed glaucony grains are observed in the upper part of Section 1.



SITE 889 HOLE D CORE 1H — CORED 80.0 - 89.5 mbsf

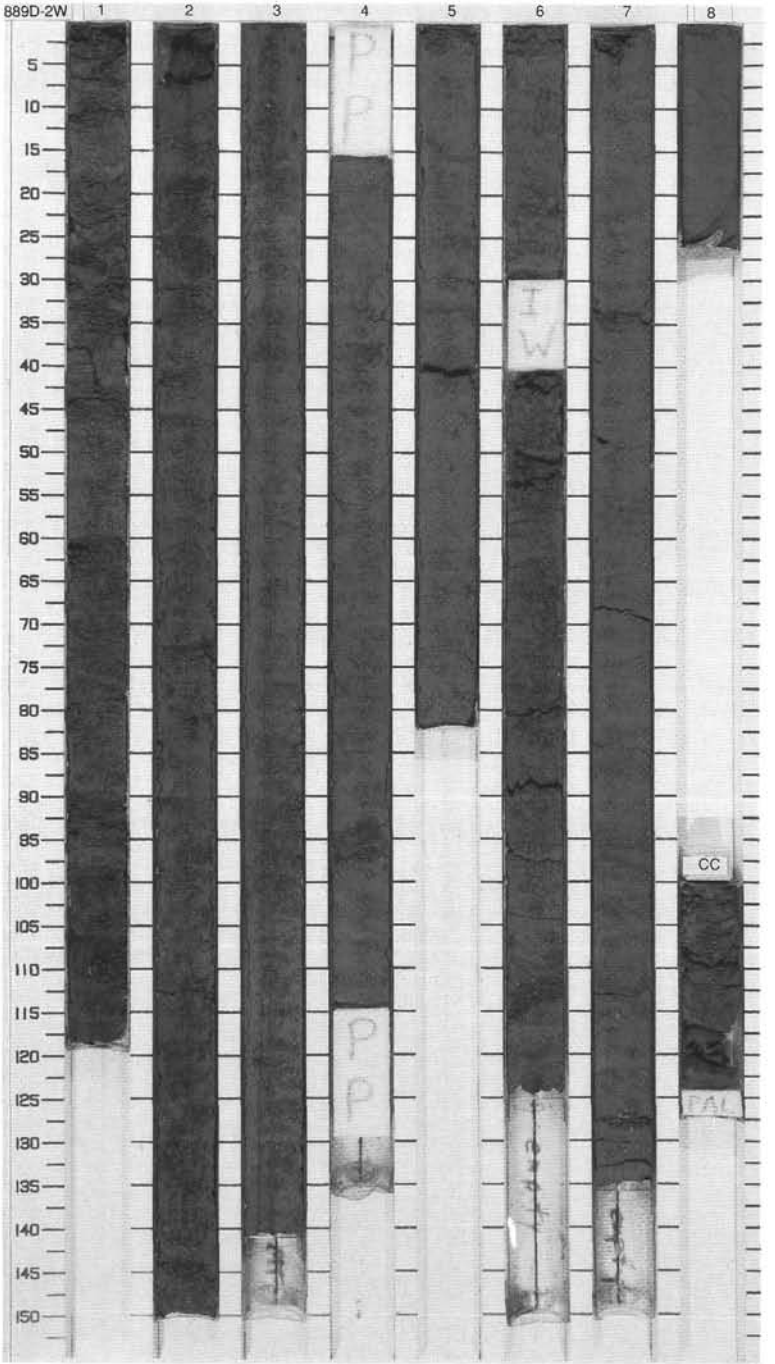
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–7, CC	Upper Pleistocene			S, M	0.4GY 1.9/1.1 to 2.3GY 2.9/0.7; 2.4GY 2.6/0.9 to 1.0GY 2.9/1.0; 8.0Y 1.4/0.7; 9.7Y 1.0/0.8 to 4.4GY 0.7/1.4; 0.6GY 2.7/0.9	SILTY CLAY TO CLAYEY SILT Major Lithology: SILTY CLAY TO CLAYEY SILT, greenish black to very dark greenish gray (about 0.5GY 2/1 to 2GY 3/1), very disturbed, often soupy and homogenized. Contains mud clasts (few mm to 1 cm in size) and sparse patches of gray fine sand. Minor Lithology: SANDY SILT, greenish black (1.7GY 2.3/0.8), restricted to thin layers with transitional lower and sharper upper contacts. General Description: Gas expansion fractures together with small gas voids observed throughout the entire core.

The interval form 89.5 to 105.0 mbsf was drilled without coring.



SITE 889 HOLE D CORE 2W CORED 105.0 - 140.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1						CLAYEY SILT Major Lithology: CLAYEY SILT, very dark greenish gray to olive black (about 1GY 3/1 to about 10Y 2/1), with firm mud clasts (up to 20 mm across), rare shell fragments and sandy patches.
		2				S	0.9GY 2.6/0.9 to 10Y 2.1/1.1	
		3				S S		Minor Lithology: VERY FINE SAND, gray, localized in very thin, normally graded layers. General Description: The distribution of mud clasts in the clayey silt is unclear. Both isolated single mud clasts and those organized in a layer were observed.
		4				W	1.6GY 2.7/0.6	
		5				W	2.0GY 3.0/0.6	
		6				I	2.8GY 3.2/0.5	
		7				M	0.1GY 2.3/0.9 0.9GY 2.3/0.6 1.5GY 2.8/0.5	
		8						
		CC						

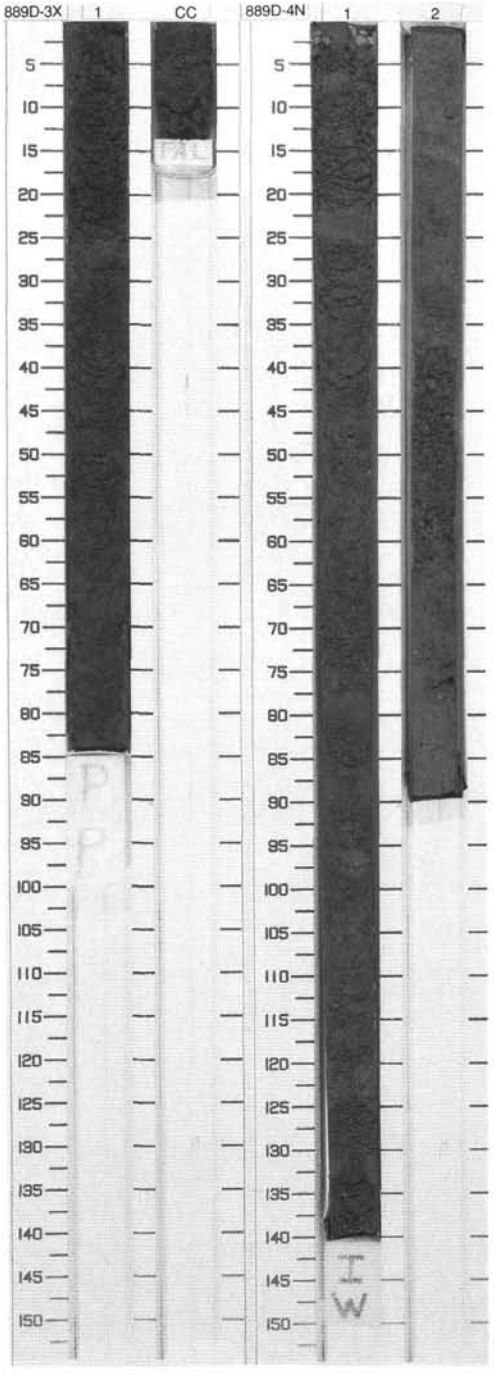


SITE 889 HOLE D CORE 3X CORED 140.0 - 149.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1 CC			○ WWWWW	S S W_M	8.3Y 2.1/1.1	CLAYEY SILT Major Lithology: CLAYEY SILT, olive black (8.3Y 2.1/1.1 to 1.6 Y 2.0/1.2), firm, very disturbed, coarser to the bottom of Section 1. *General Description:* Fracturing most probably caused by drilling. No structures observed.

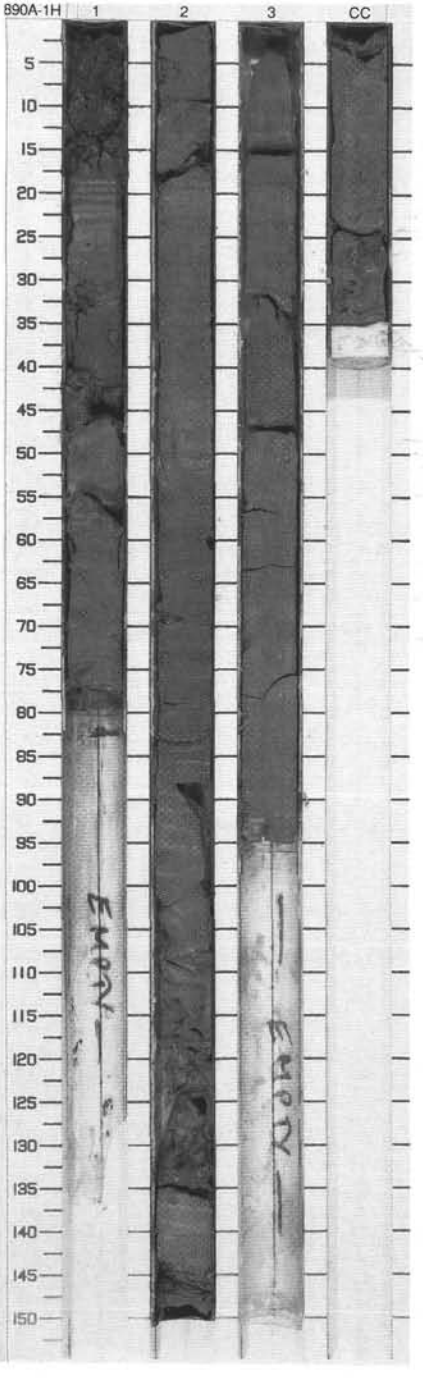
SITE 889 HOLE D CORE 4N CORED 149.5 - 154.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1 2		1 2	lower (?) Pleistocene	*** ***	○○○○	S S S S S I W	9.6Y 2.3/0.8 to 9.1Y 2.3/0.9 8.5Y 2.5/0.7	CLAYEY SILT Major Lithology: CLAYEY SILT, very dark olive gray (about 9Y 2.5/0.8), firm, fractured in small pieces (up to 2 cm across) and soupy below the middle part of Section 2. Interbedded with thin sandy layers. Minor Lithology: VERY FINE SAND, gray, localized in thin layers with sharp bottom and normally graded upper contacts. General Description: Fracturing is enhanced by drilling.



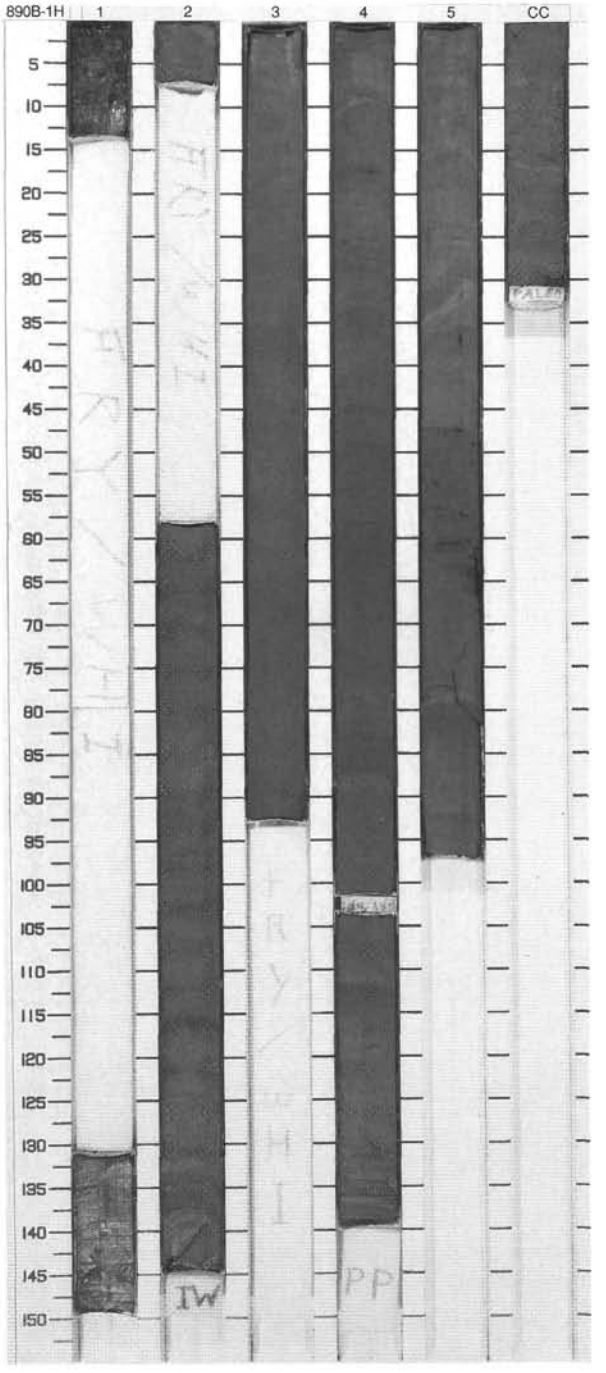
SITE 890 HOLE A CORE 1H CORED 0.0 - 5.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	upper Pleistocene		W	S	9.3Y 1.9/0.6	SILTY CLAY Major Lithology: SILTY CLAY, dark olive gray (about 9.5Y 3/0.5) dominates the recovered sediments. Occasionally, fine parallel lamination and dark, sulfide-rich horizons are preserved (Section 3, 13–20 cm and Core Catcher, 5–15 cm). At Section 1, 0–95 cm, sediment becomes more silty and contains foraminiferal fragments. Minor Lithology: Dark gray SILT occurs as fine layers (a few mm-thick) at Section 2, 70–90 cm. Irregular patches of yellowish gray sediment are observed. General Description: Sediments of Core 146-890A-1H fell out of the barrel onto deck and may be improperly oriented (e.g. reverse grading in silty layers (Section 2, 70–90 cm) may be the result of incorrect placement).
2		2			W		9.6Y 3.1/0.3 to 9.3Y 3.1/0.8	
3		3						
		CC				S M		



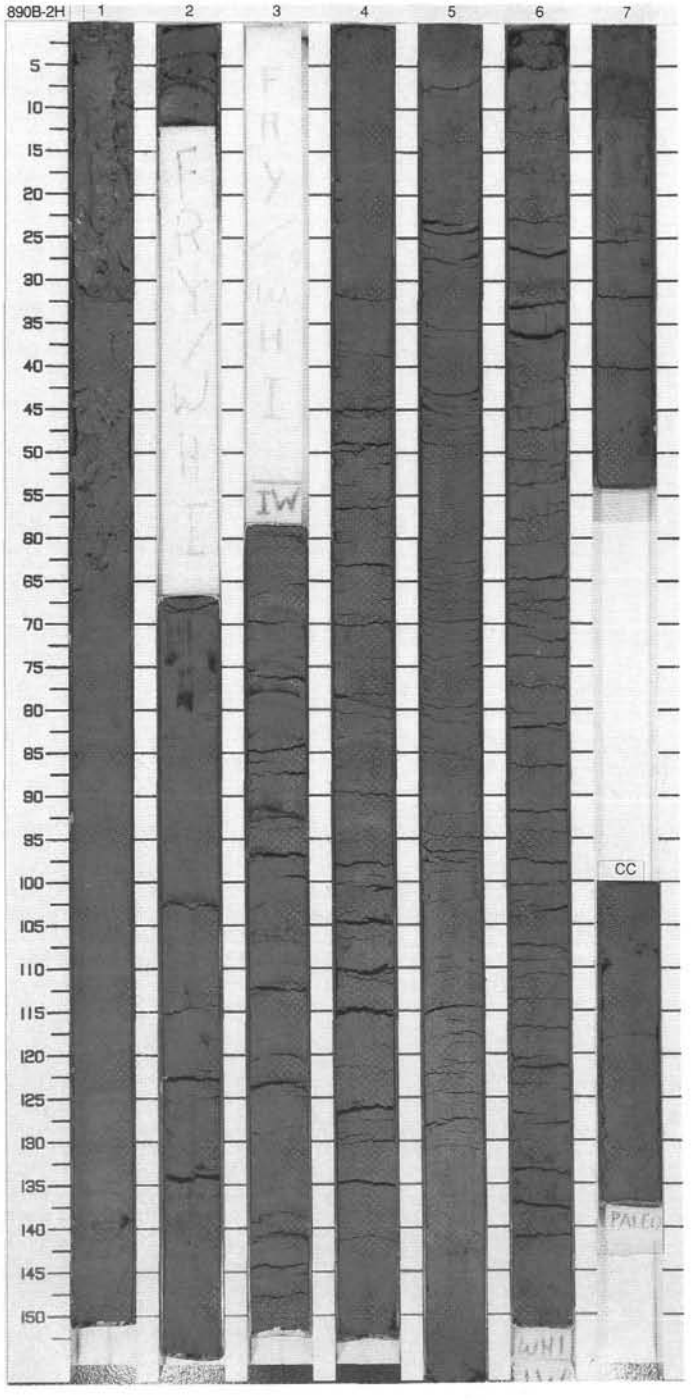
SITE 890 HOLE B CORE 1H CORED 0.0 - 7.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–7		1	upper Pleistocene			S S W		CLAYEY SILT Major Lithology: CLAYEY SILT, olive gray to dark greenish gray (about 9.7Y 3.5/0.5 to about 6GY 3.5/0.5), bioturbated at the top, with very thin (1–2 mm) layers of silty sands. Shell fragments and bioclasts up to 1 mm across. General Description: Significant bioturbation through the entire core.
							9.0Y 3.2/0.5	
		2				W		
						S I	8.4Y 3.4/0.5	
		3					9.0Y 3.4/0.5	
						S W		
		4				S S W W	6.4Y 3.4/0.6	
		5				S S	5.5GY 3.3/0.4 to 0.9GY 2.9/0.6	
		CC				M		



SITE 890 HOLE B CORE 2H CORED 7.3 - 16.8 mbsf

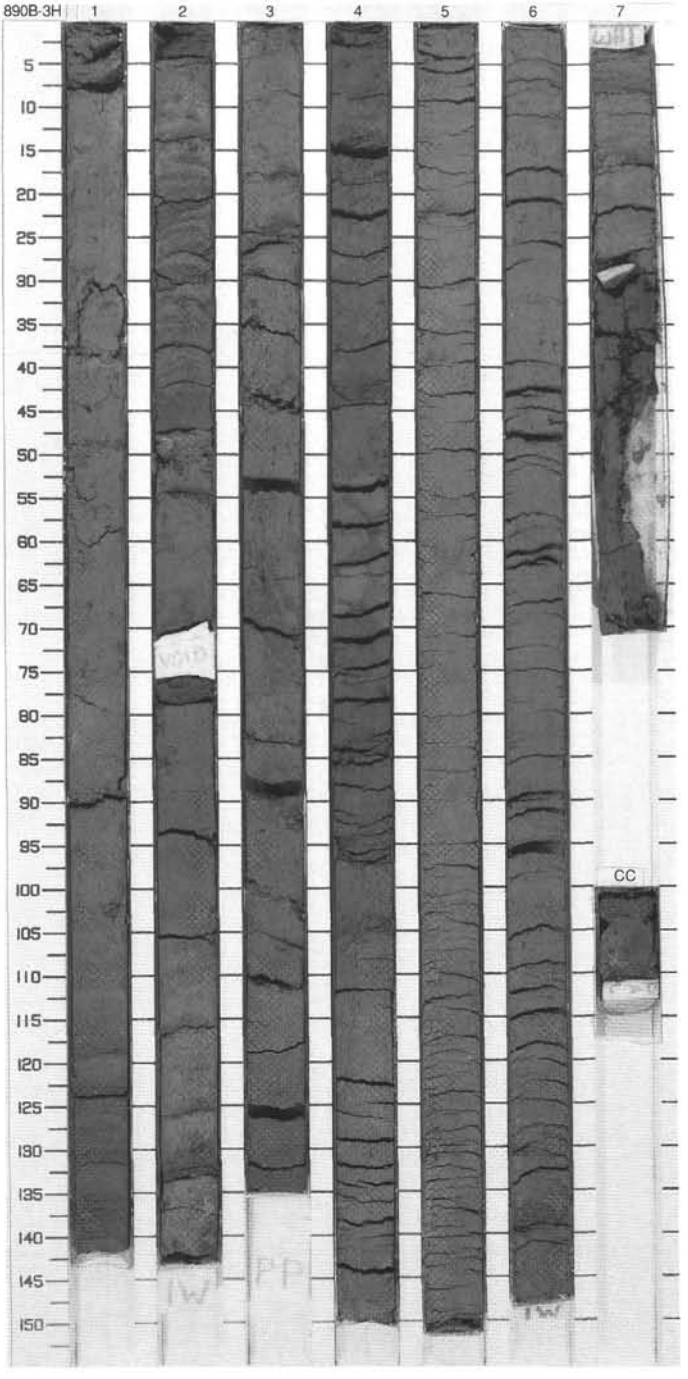
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–10		1	upper Pleistocene				7.7Y 3.2/0.5	CLAYEY SILT and SILTY CLAY Major Lithologies: CLAYEY SILT, dark olive gray (about 7Y 3/0.5), with thin layers of fine sand. SILTY CLAY, very dark greenish gray (about 2GY 3/0.6 to 3GY 3/0.7), interlayered. In the Core Catcher, 15 cm, silty clay contains a single isolated subrounded pebble of andesite. Minor Lithology: FINE SAND, greenish black (1.8GY 2.4/0.5, localized in very thin (1–5 mm) layers with sharp bottom and gradational upper contacts. General Description: Gas cracks are widespread, especially in Sections 3, 4, and 5 seem to be restricted to sandy layers.
		2			I	S W S	4.2GY 2.9/0.4	
		3		•••	I	W I	3.1GY 2.4/0.4	
		4			I		0.2GY 3.1/0.6	
		5			I		2.8GY 3.1/0.7	
		6					1.8GY 3.0/0.6	
		7				S W S I	0.1GY 2.2/1.1	
		CC		◇		M	3.2GY 3.3/0.7	



SITE 890 HOLE B CORE 3H CORED 16.8 - 26.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–7, CC	upper Pleistocene			S, I, S, W, S, W, S M	7.0GY 3.6/0.5; 8.4GY 3.4/0.4; 2.9GY 2.9/0.8; 6.2GY 3.3/0.5; 3.9GY 3.6/0.8	SILTY CLAY and CLAYEY SILT Major Lithologies: SILTY CLAY, dark greenish gray (about 7GY 3.5/0.5), uniform, with very thin (1–2 mm) silty layers, gas cracks and rare shell fragments. CLAYEY SILT, dark greenish gray (about 3GY 3/1), with silty and sandy layers. Section 7 contains broken carbonate concretion. Minor Lithology: SAND, thin layers interbedded with silts in Section 7 and Core Catcher. General Description: Gas cracks are especially widespread in Sections 5 and 6. Clayey silt in Section 3 is enriched in dispersed black sulfides.

890B 4H NO RECOVERY



SITE 890 HOLE B CORE 5H CORED 38.3 - 47.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–10		1	upper Pleistocene			S	7.2GY 3.4/0.5 to 1.5GY 2/0.5	CLAYEY SILT Major Lithology: CLAYEY SILT, dark greenish gray to greenish black (about 7GY 3.5/0.5 to about 1.5GY 2/0.5), with indurated clayey silt fragments. Patches or thin layers of coarse silt to fine sand are observed in Sections 1, 4, 5, 6, and 7. Below Section 6, sediments are more green in color, and bear significant amounts of glaucony. Glaucony forms dark green mineral grains of medium sand size. Minor Lithology: VERY FINE SAND in Section 1, 75–128 cm, and thin layers (1 mm to 5 mm thick) and patches. Sands are greenish black (4.9GY 1.5/0.4), and the thin sand layers are normally graded. The layered sands are characterized by sharp bases and gradational upper contacts (fining up to clayey silt). General Description: Sediments in this core generally show subhorizontal gas-expansion cracks, particularly in Sections 2 and 4.
		2					4.3GY 2.2/0.8	
		3					2.7GY 1.8/0.7	
		4					4.7GY 3.4/0.7	
		5				I W	6.9GY 2.4/0.5	
							4.4GY 3.3/0.7	
		6					1.6GY 3.0/0.7	
		7					3.3GY 2.8/0.7	
		CC				M	5.1GY 3.5/0.4