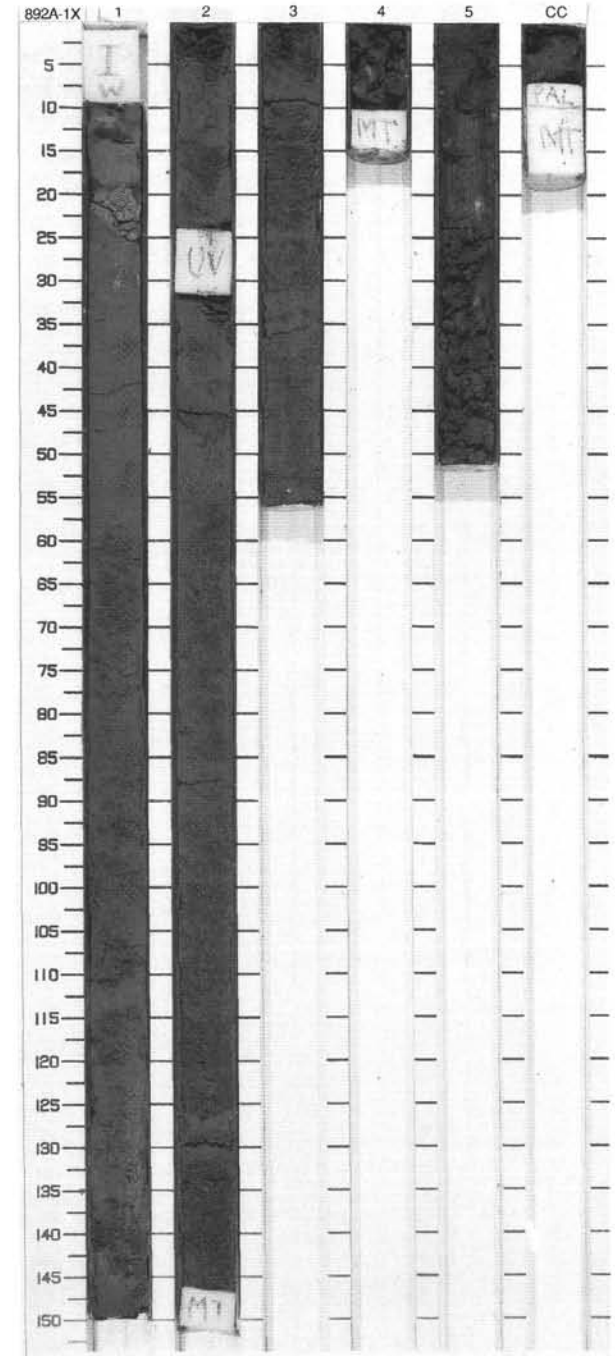
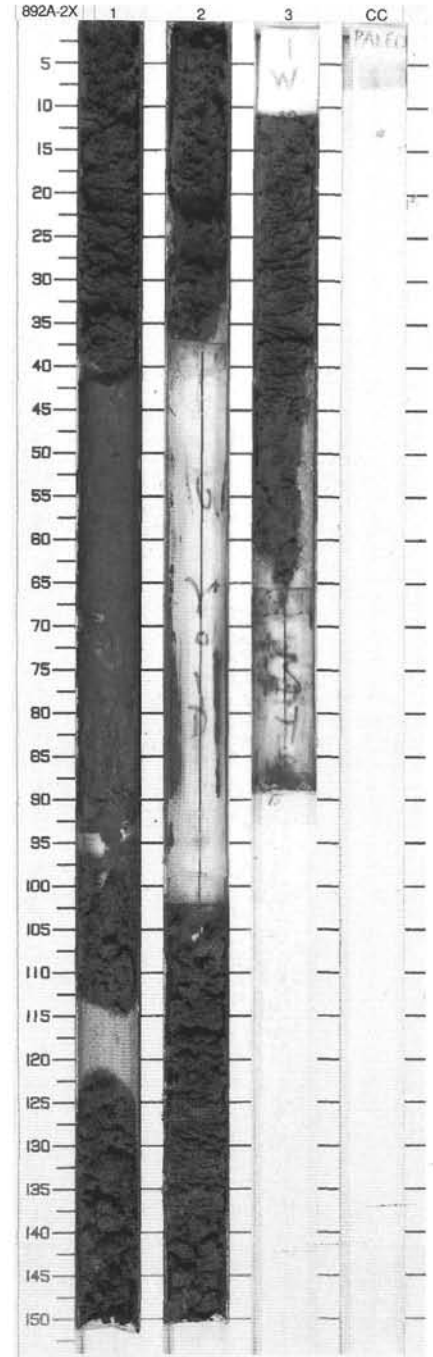
SITE 892 HOLE A CORE 1X CORED 0.0 - 9.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–4		1–5, CC	upper Pliocene			W, S, S, S, S, W, W, M	7.3GY 3.1/1.2; 6.8GY 3.0/1.4	SILTY CLAY Major Lithology: SILTY CLAY, very dark greenish gray (7.3GY 3.1/1.2 to 6.8GY 3.0/1.4) with lighter patches, structureless, with slight color bands. Major components are clay minerals (50%–60% in smear slides), quartz, and feldspar. Inorganic carbonates amount to a few percent, the biogenic component (diatoms and sponge spicules) is about 4% in smear slides. Minor Lithologies: GLAUCONY SAND, greenish black (7.9GY 2.4/1.5), occurs in two layers of about two cm thickness at the top of Section 1 (16–18 cm and 20–22 cm respectively). The proportion of glaucony is 70% (smear slide). Quartz, feldspar, inorganic carbonates, and accessory minerals are minor components. SILTY CLAY WITH CARBONATE, dark greenish gray (2.0GY 4.1 /1.4) occurs mainly between the two layers of glaucony sand, at Section 1, 18–20 m. It is also present in patches (a few cm in diameter) sparsely distributed in the major lithology. The percentage of inorganic carbonate in the silty clay, occurring as micron-scale grains, reaches 80% (smear slide). The biogenic components make up a few percent. General Description: In Sections 1, 2, and 3, sediments are undisturbed. Drilling disturbance occurs from Section 4 downwards, although the lithologic composition of the sediment does not change. The disturbance could be related to the presence of gas hydrates (sampled in Section 5).



SITE 892 HOLE A CORE 2X CORED 9.5 - 19.0 mbsf

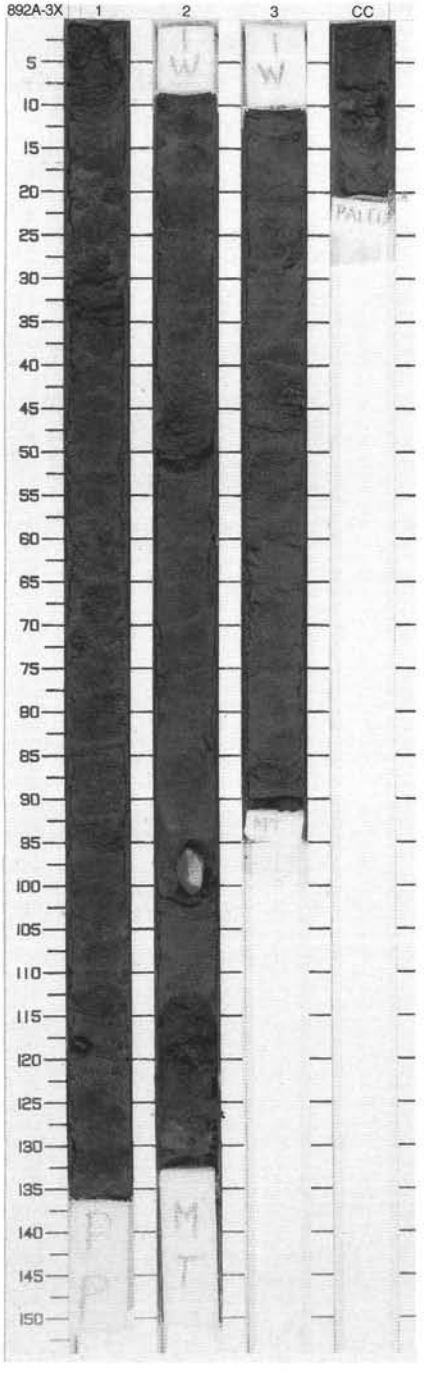
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	upper Pliocene		WWWWWOOOO W	S S S	6.6GY 2.2/1.7	CLAYEY SILT Major Lithology: SILTY CLAY, greenish black (6.6GY 2.2/1.7 to 8.3GY 2.2/1.7), structureless, very disturbed or soupy in all the core. Major components of the sediment are clay minerals (approximately 50% in smear slides), quartz, feldspar, volcanic glass, inorganic carbonates (from 3% to 10% in smear slides), and accessory minerals. The biogenic component (diatom, sponge spicules, silicoflagellates, plant debris) varies between 10% and 15% in smear slides. General Description: Gas hydrates have been observed in core catchers and at the end of sections. The texture of the disturbed sediment (soupy, soft, or mousse-like) is likely related to the melting of the hydrates during core retrieval.
2	Void	2				S	8.3GY 1.9/1.9	
3		3			WWWWWWW	S I S MW	8.1GY 2.2/1.7	



SITE 892 HOLE A CORE 3X CORED 19.0 - 28.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	upper Pliocene		!	S	6.6 GY 2.3/1.3	CLAYEY SILT and SILTY CLAY
						S	3.8GY 2.9/1.4	Major Lithologies: Alternations of structureless SILTY CLAY, very dark greenish gray (3.8GY 2.9/1.4 to 3.2GY 2.6/1.6) and CLAYEY SILT, very dark greenish gray (5.1GY 3.1/1.4 to 4.7GY 2.9 /1.4). Fine and medium bedding (3 cm to 20 cm) is revealed by slight alternation of colors. The sediment reacts slightly to HCl and contains carbonate concretions in Section 2, 98 cm (4 cm in size), and in Section 3, 13 cm and 28 cm (less than 1 cm in size). Major components of the sediment are clay minerals (40%–50% in smear slide), quartz, and feldspar. The biogenic fraction is between 10% and 15% and inorganic carbonates are between 5% and 10% (smear slide). Two 1 cm-thick layers with dark purple-violet color (too thin to be identified with the spectrophotometer) are present in Section 1, 118 cm and in Section 3, 29 cm. An isolated pebble of indurated sandstone with same dark purple-violet color is present within the layer in Section 1. The sediment reacts slightly to HCl.
2		2			W	S	5.1GY 3.1/1.4 to 3.2GY 2.6/1.6	
3		3			!	S	4.7GY 2.9/1.4	
		CC			!	M		Minor Lithology: CLAYEY SAND, poorly sorted, very dark greenish gray (6.6GY 2.3/1.5), is present in thin layers (1 cm to 3 cm in thickness), normally graded, with sharp bottom contact in Section 1, 0–50 cm.

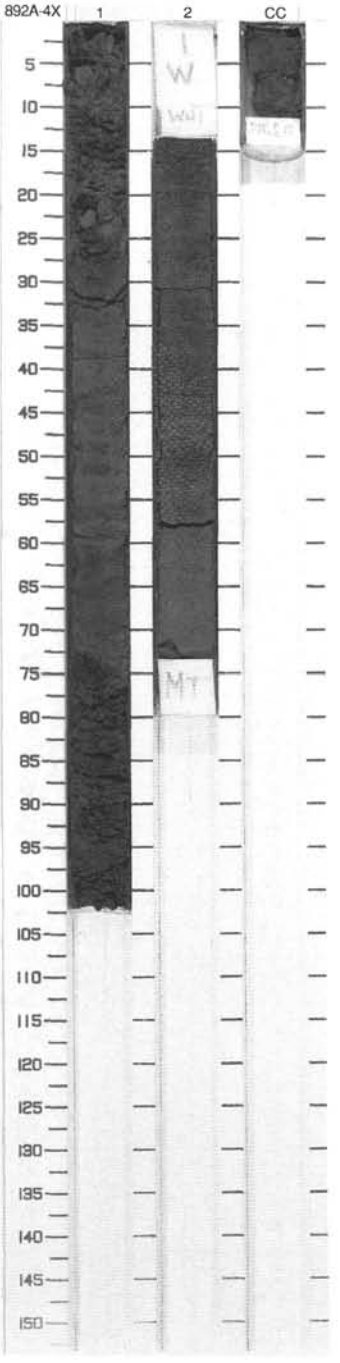
General Description:
Sediments recovered from Core 146-892A-3X are mostly undisturbed. Drilling disturbance occurs in limited portions of the core and seems to be associated with silty beds. Disturbance is likely produced by gas expansion.



SITE 892 HOLE A CORE 4X CORED 28.5 - 38.0 mbsf

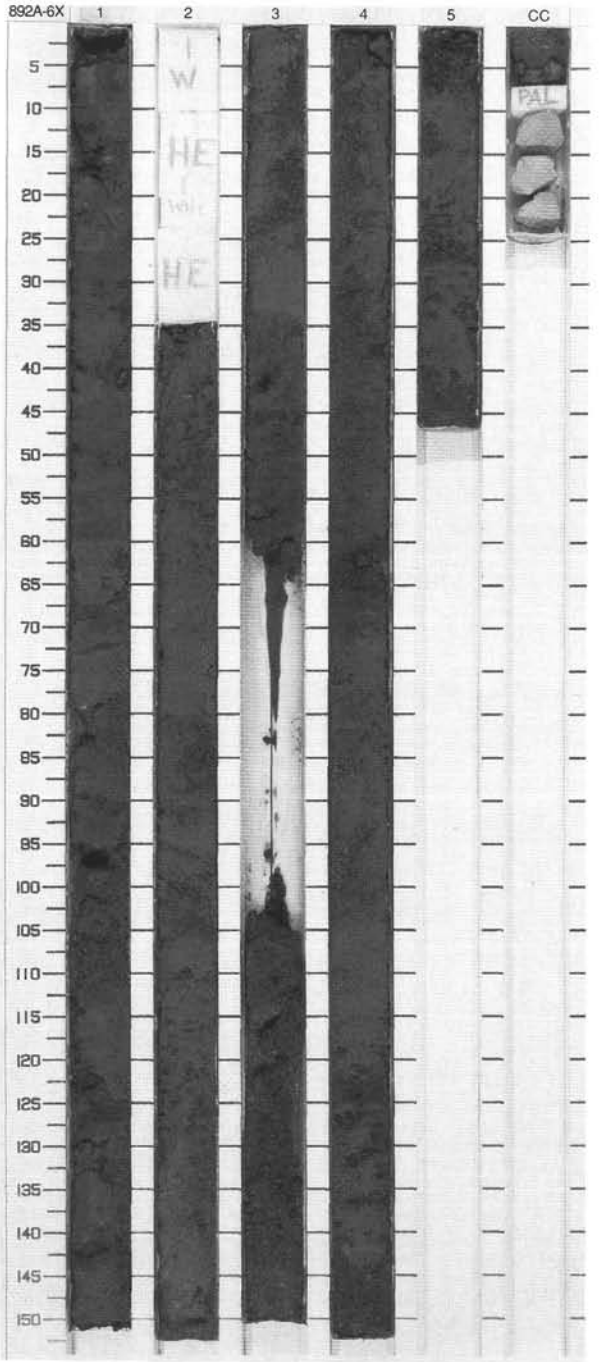
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	lower Pliocene (?)		W O	S	5.5GY 2.8/1.4 to 4.1GY 2.7/5.1	CLAYEY SILT Major Lithology: CLAYEY SILT, very dark greenish gray (5.5GY 2.8/1.4 to 1.2GY 3.2/1.4), with poorly defined bedding identified mostly by color changes in Section 1, 0–72 cm, and structureless in the Core Catcher. Two carbonate concretions (2–3 cm in size), rounded, with a rough surface, were found in Section 1, 4 cm and 22 cm. Minor Lithology: FIRM CLAYEY SILT, very dark greenish gray (4.8GY 2.5/1.6), fractured in small angular fragments, is observed in Section 1, 72 cm to 102 cm. The upper boundary is sharp and inclined (dip is about 30°). General Description: Moderate disturbance by gas expansion is observed in Section 1, 20 cm to 70 cm and in all of Section 2.
		2				W[I]		
		CC				M	3.2GY 2.7/1.5 to 1.2GY 3.2/1.4	

892A 5P NO RECOVERY



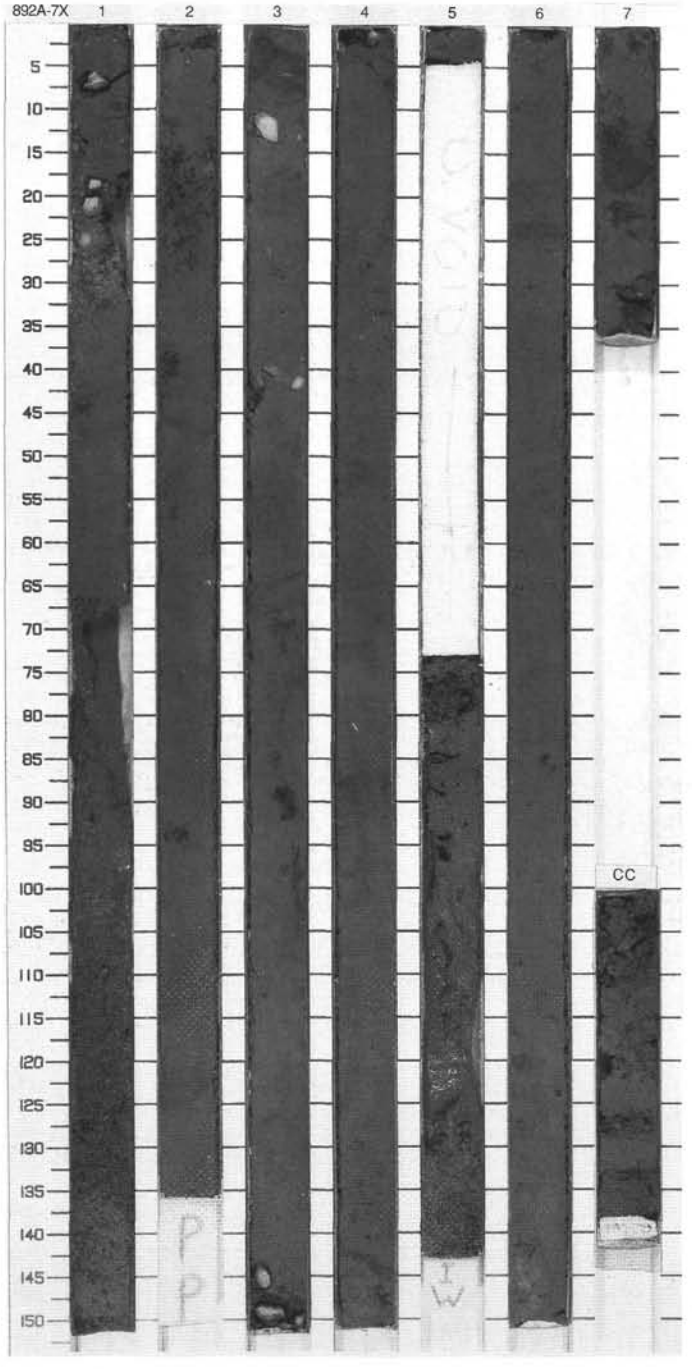
SITE 892 HOLE A CORE 6X CORED 39.0 - 48.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–6	Void	1–5, CC	lower Pliocene (?)				6.4GY 2.8/0.3 2.0GY 3.1/1.3 4.3GY 3.0/1.2 5.9GY 2.6/1.4 6.1GY 2.4/1.4 3.2GY 3.0/1.3	FIRM CLAYEY SILT Major Lithology: FIRM CLAYEY SILT, very dark greenish gray to greenish black (8.8GY 2.5/1.3 to 2.0GY 3.1/1.3), fractured into small (mm-scale) angular pieces, contains cemented mud clasts in Section 1, 18 cm to 26 cm. Carbonate concretions of dolomitic composition are observed at Section 1, 60 cm and Core Catcher, 5 cm. Minor Lithologies: SILTY CLAY, greenish gray (3.4GY 3.3/1.3), soft, plastic, with dispersed glaucony, occurs in Section 1, 60–66 cm. GLAUCONY SAND, composed of very dark greenish to black fresh grains, dispersed chaotically throughout the sediments as well as restricted to thin (0.5–1 cm in thickness) layers or patches. Inclined (dips about 10°–15°) layers are observed at Section 1, 71 cm, and in Section 2 at 93 cm and 100 cm. Sulfides occur together with glaucony in Sections 2 and 3. CARBONATE-CEMENTED SILTSTONE, fractured, olive gray (0.6GY 3.7/0.8 to 10Y 4/1), with evidence of bioturbation occurs in Section CC, 10–24 cm.



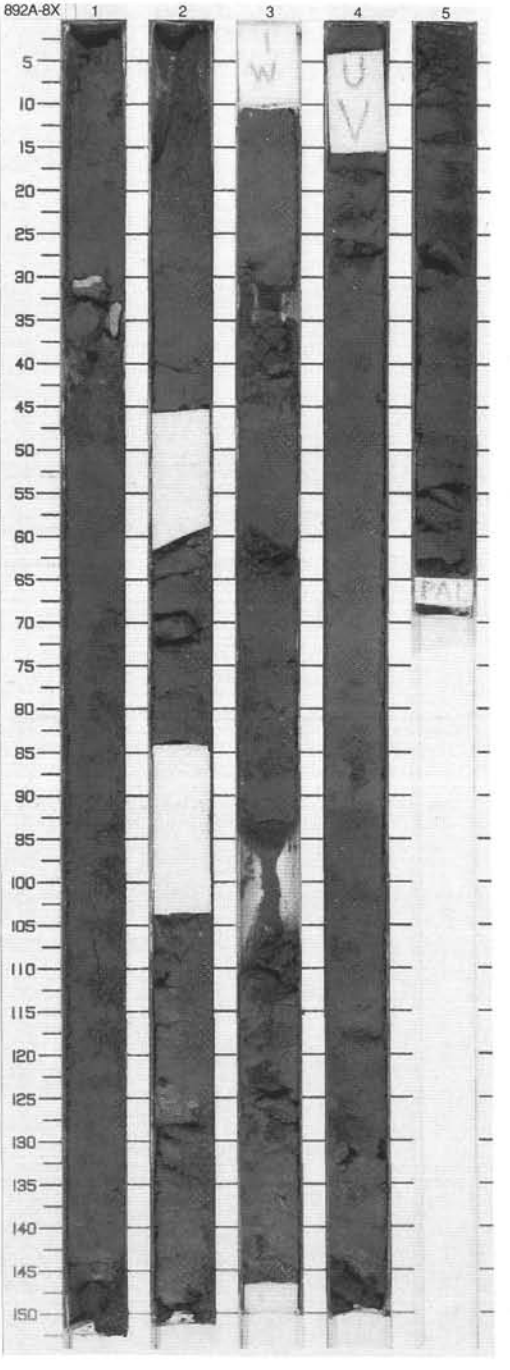
SITE 892 HOLE A CORE 7X CORED 48.5 - 58.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9	Void	1–7, CC	upper Pliocene				4.5GY 3.1/1.2; 3.5GY 3.0/1.3 to 6.4GY 2.8/1.3; 6.8GY 3.0/1.2; 5.5GY 2.8/1.5	CLAYEY SILT and FIRM CLAYEY SILT Major Lithologies: CLAYEY SILT, very dark greenish gray (from about 3.6GY 3.2/1.5 to 6.4GY 2.8/1.3), contains black glaucony grains and hard angular carbonate concretions (4 cm across) at Section 1, 0–67 cm, Section 2, 28–36 cm, Section 4, 0–150 cm, Section 5, 0–4 cm, Section 7, 0–36 cm, and Section CC, 0–38 cm. FIRM CLAYEY SILT, very dark greenish gray (3.5GY 3.0/1.3 to 6.8GY 3.0/1.2), fragmented into small (mm-scale) angular pieces, matrix-supported, soupy in Section 1, 67–105 cm and Section 5, 80–130 cm. Contains glaucony grains, mica (Section 7, 11–19 cm), and pieces of greenish gray (2.9GY 3.4/1.2) carbonate cemented silt with pyrite (Section 3, 10–13 cm, 25 cm, 39–42 cm, and 143 cm). Minor Lithology: GLAUCONY SAND consists of dark green to black fresh glaucony grains, dispersed in clayey silt or restricted to patches and layers. Inclined (dip is about 25°) layer occurs in Section 4, 142 cm. General Description: Alternation of plastic and firm fractured clayey silt. Glaucony grains occur throughout the core.



SITE 892 HOLE A CORE 8X CORED 58.0 - 67.5 mbsf

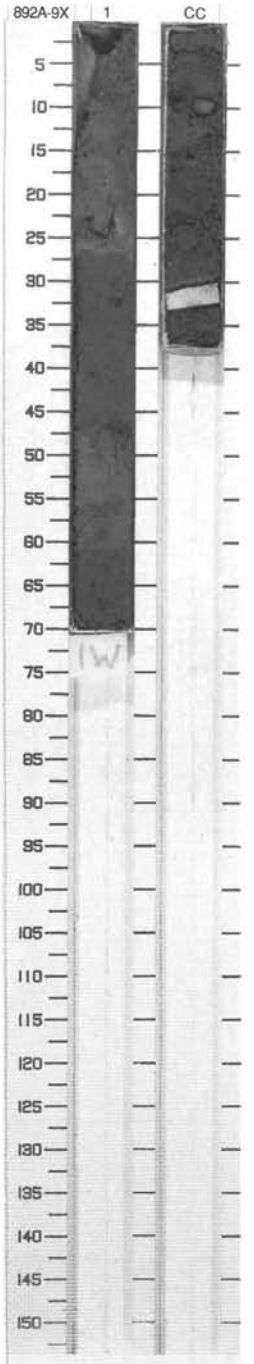
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–6	Void	1–5	upper Pliocene	C, C, C, G; dashed	W; O	S; S I S; S S; M	5.4GY 3.1/1.5; 5.2GY 3.0/1.5; 3.6GY 3.5/1.5 to 6.3GY 3.1/1.4; 4.0GY 3.0/1.5; 6GY 2/2 to 4.8GY 2.6/1.7	CLAYEY SILT Major Lithology: CLAYEY SILT, very dark greenish gray to dark greenish gray (3.6GY 3.5/1.5 to 6.2GY 3.1/1.4), with several gradational transitions from plastic to fractured (mm-scale) into small angular pieces. Rounded carbonate concretions (5 cm in diameter) with a rough surface are present in Section 1, 30–36 cm, and cm-size carbonate-cemented pieces in Section 1, 135–145 cm. Weak reaction of the sediments to applied HCl was observed in Section 2, 30–150 cm, and Section 4, 130–145 cm. A patch of glaucony grains occurs in Section 4, 128–130 cm. Two nanofossil-rich smear slides (60% nannofossils) were described in Section 3, 25 cm and Section 4, 87 cm. General Description: Varying degree of fracturing possibly reflects differences in compaction of clayey sediments due to incipient lithification.



SITE 892 HOLE A CORE 9X CORED 67.5 - 77.0 mbsf

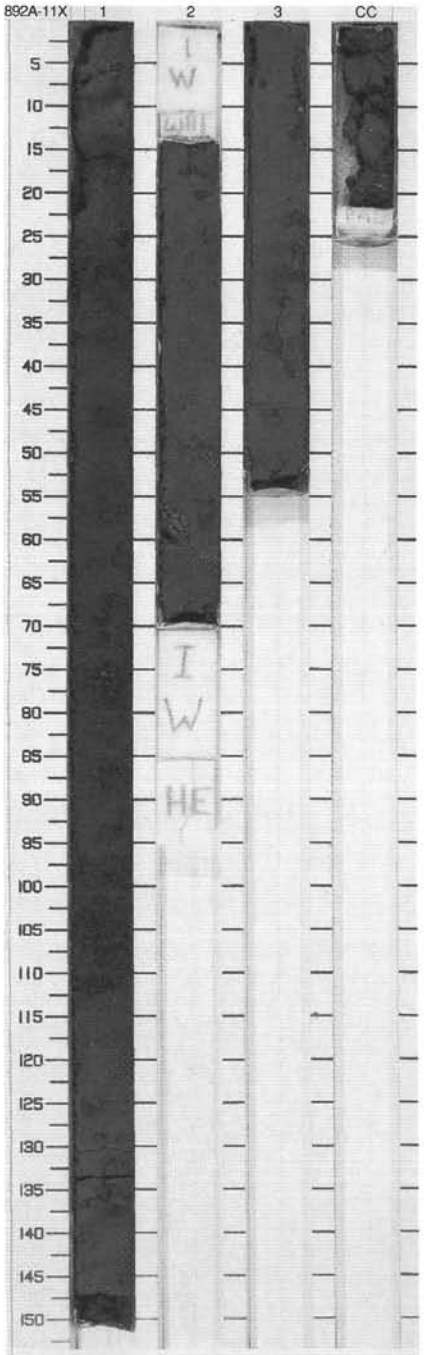
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1	lower Pliocene (?)			S S S S S S I M	3.7GY 2.8/1.2 to 5.6GY 2.7/1.5	SAND, SILT and CLAYEY SILT Major Lithologies: SAND, very dark greenish gray (3.7GY 2.8/1.2 to 5.6 GY 3.3/1.1), carbonate cemented, with small darker pebbles which may have been reworked downhole as fill, occurs in Section 1, 0 cm to 25 cm. SILT, dark greenish gray to very dark greenish gray (1.8GY 3.6/1.5 to 5.9GY 2.9/1.4), with slight reaction to HCl, occurs in Section 1, 25 cm to 70 cm. Flaser bedding is present in Section 1, 56 cm. CLAYEY SILT, very dark greenish gray (5.3GY 2.7/1.5) indurated and broken in small angular pieces (a few mm in size). A well-rounded pebble of indurated silt which does not contain carbonate is present in Section CC, 9 cm (2 cm in size). Minor Lithology: SILT WITH CARBONATE, soft, yellowish gray (too thin to be measured with the spectrophotometer), occurs in Section CC, 30–31 cm. General Description: The sediments recovered from this core show very little drilling deformation.
		CC						

892A 10P NO RECOVERY



SITE 892 HOLE A CORE 11X CORED 78.0 - 87.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–3		1, 2, 3, CC	lower Pliocene (?)			S, WI, W	5.3GY 2.9/1.4; 5.9GY 3.0/1.3; 5.3GY 3.2/1.1	CLAYEY SILT Major Lithology: CLAYEY SILT, very dark greenish gray (5.1GY 3.1/1.4 to 5.5GY 3.2 to 1.1), mostly firm, fissile, and fractured in small angular pieces (millimeter-size). No sedimentary structures are visible. Major components of the sediment (smear slides) are clay minerals, quartz, and feldspar. The biogenic components are 5% to 10%. Clay minerals are often present as pellets. In Section 1, 138–150 cm, black grains and diffused black patches of glaucony sand and or sulfides are present. Glaucony is otherwise present in all sections. Centimeter-size clasts of dolomite-cemented silt are present in Section 2, 53–58 cm. In Section 3, 38–54 cm, a weak induration of the sediment indicates subhorizontal bedding. General Description: The sediment is composed of an alternation of soft and highly disturbed (fractured) firm clayey silt.



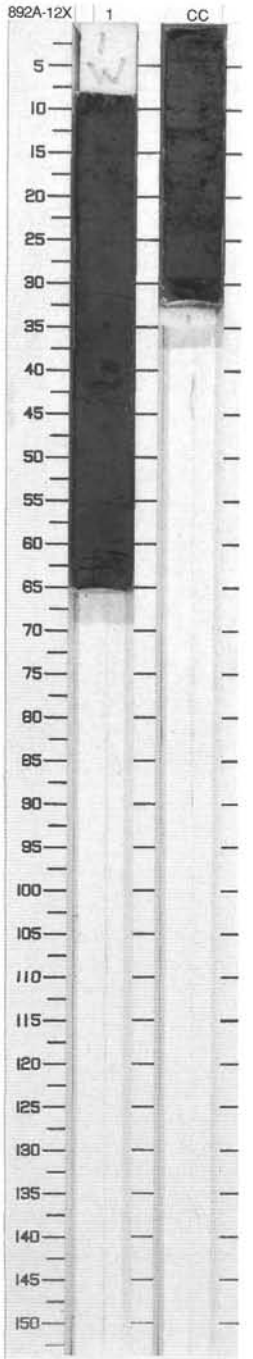
SITE 892 HOLE A CORE 12X CORED 87.5 - 97.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1	lower Pliocene (?)	◇		S S I	2.5GY 3.1/1.2 to 5.4GY 2.9/1.4	SILTY CLAY
		CC				S M		

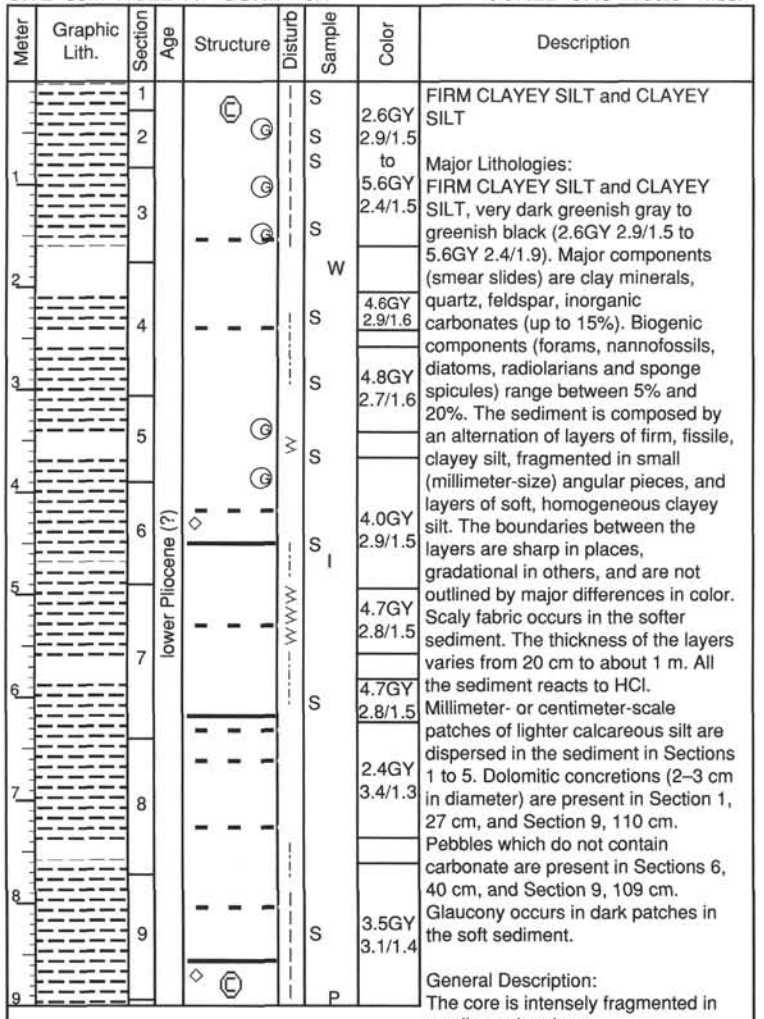
Major Lithology:
SILTY CLAY, very dark greenish gray (2.5GY 3.1/1.2 to 4.8GY 3.2/1.3), is firm and slightly foliated in Section 1, and in Section CC, 14–17 cm and 23–33 cm. Major components (smear slides) are clay minerals, quartz, and feldspar. The biogenic component makes up about 2%.

Minor Lithology:
SILTY CLAY WITH NANNOFOSSILS AND DIATOMS, very dark greenish gray (2.5GY 3.1/1.2), occurs in two layers within the major lithology. In Section 1, 20–30 cm, the sediment contains 20% calcareous nannofossils. In the Core Catcher, 15–20 cm, the content of diatoms in the sediment is 16%. The boundaries of these layers are transitional.

General Description:
The sediment is composed of an alternation of firm and fractured, and soft silty clay. A small clast of sand which does not contain carbonate is found near the top of Section 1.



SITE 892 HOLE A CORE 13X CORED 97.0 - 106.5 mbsf

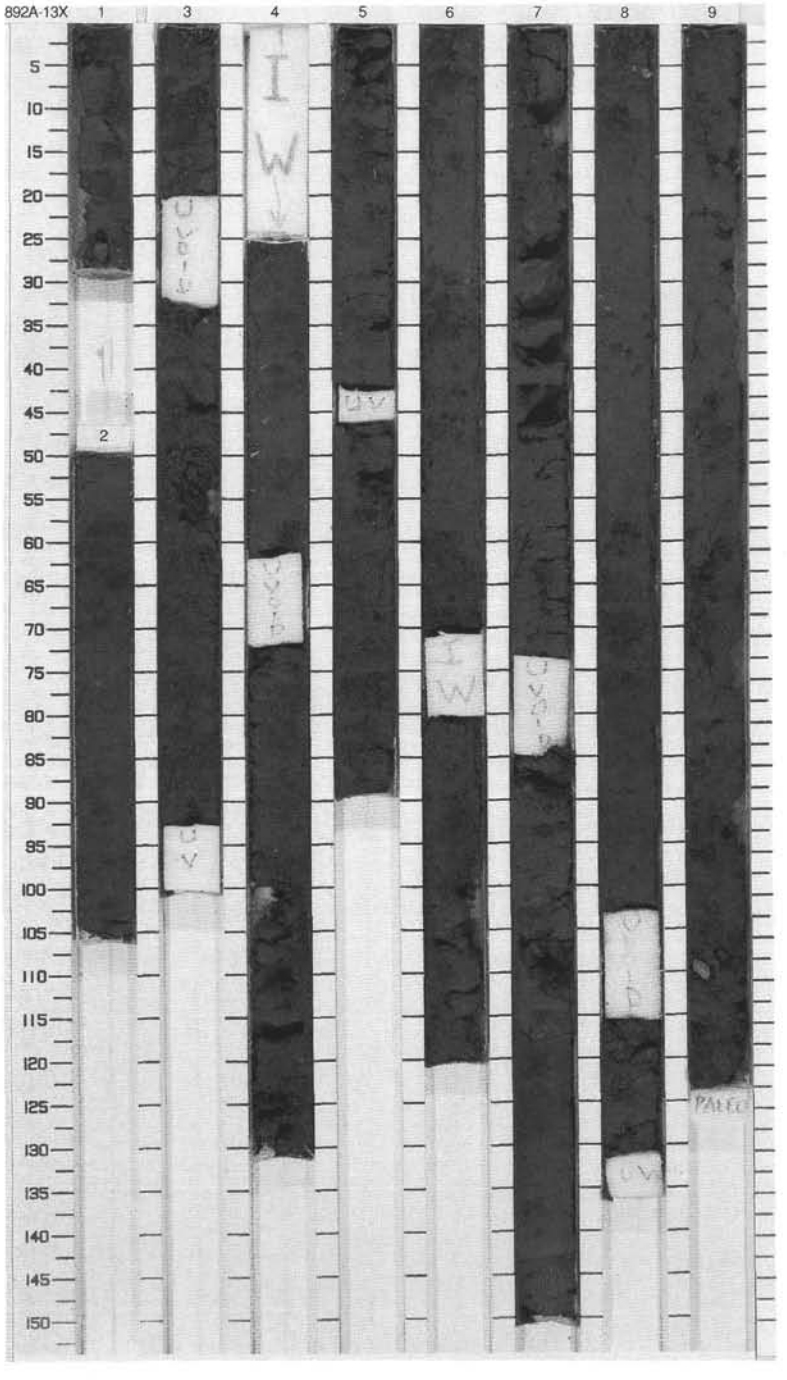


Description

FIRM CLAYEY SILT and CLAYEY SILT

Major Lithologies:
FIRM CLAYEY SILT and CLAYEY SILT, very dark greenish gray to greenish black (2.6GY 2.9/1.5 to 5.6GY 2.4/1.9). Major components (smear slides) are clay minerals, quartz, feldspar, inorganic carbonates (up to 15%). Biogenic components (forams, nannofossils, diatoms, radiolarians and sponge spicules) range between 5% and 20%. The sediment is composed by an alternation of layers of firm, fissile, clayey silt, fragmented in small (millimeter-size) angular pieces, and layers of soft, homogeneous clayey silt. The boundaries between the layers are sharp in places, gradational in others, and are not outlined by major differences in color. Scaly fabric occurs in the softer sediment. The thickness of the layers varies from 20 cm to about 1 m. All the sediment reacts to HCl. Millimeter- or centimeter-scale patches of lighter calcareous silt are dispersed in the sediment in Sections 1 to 5. Dolomitic concretions (2–3 cm in diameter) are present in Section 1, 27 cm, and Section 9, 110 cm. Pebbles which do not contain carbonate are present in Sections 6, 40 cm, and Section 9, 109 cm. Glaucony occurs in dark patches in the soft sediment.

General Description:
The core is intensely fragmented in small angular pieces.
NB: Section 9 was a core catcher entered as a numbered section because it was too long to be accepted as a CC by CORELOG.

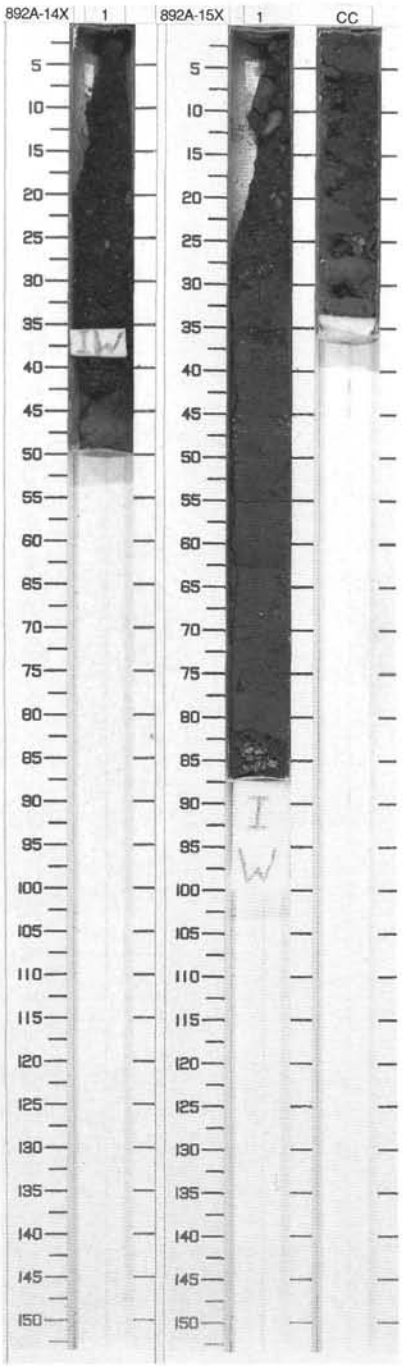


SITE 892 HOLE A CORE 14X CORED 106.5 - 116.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1	l. Pliocene (?)			S M I		SILTY CLAY Major Lithology: SILTY CLAY, greenish black (5.8GY 2.3/1.9 to 6.2GY 2.1/1.4), completely disturbed by drilling and transformed to drilling breccia. Pieces are largely subangular and range from 2 mm to 10 mm in size. Dolomitic concretions (1–2 cm across) are present at 10 cm and 20 cm. General Description: *Completely reworked. Drilling breccia.*

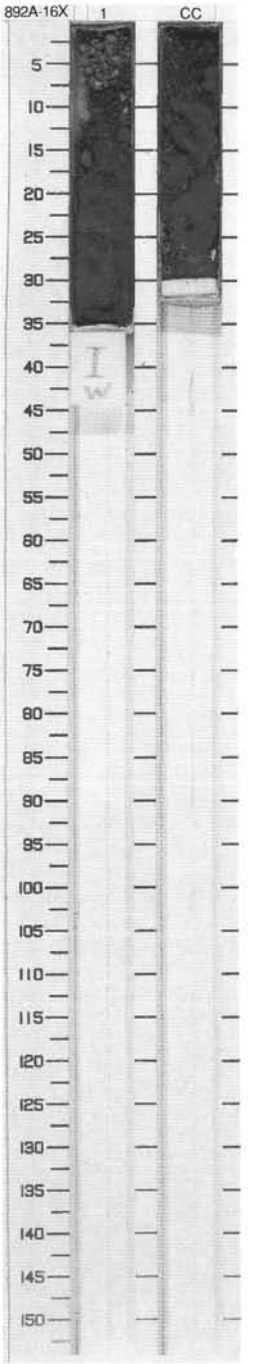
SITE 892 HOLE A CORE 15X CORED 116.0 - 125.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1 CC	upper Pliocene			S S S I S M	5.1GY 2.8/1.5 to 6.1GY 2.6/1.6	FIRM CLAYEY SILT Major Lithology: FIRM CLAYEY SILT, very dark greenish gray (5.1GY 2.8/1.5 to 6.1 GY 2.6/1.6), intensely deformed, with slickenlines and polished surfaces. Convolute folding (Section 1, 28 cm to 36 cm) and subhorizontal bedding (Section 1, 55 cm to 81 cm) can be identified. Major components in smear slides are clay minerals (about 50%), quartz, and feldspar. Biogenic components account for less than 10%. Mud clasts and light mud patches, rich in nannofossil, are common in Section 1. In Section 1, 0–30 cm, the sediment is intensely disturbed and forms a drilling breccia. Minor Lithology: SILTY SAND, greenish black (7.3 GY 2.4/1.7), poorly sorted, with subangular grains is present in the Core Catcher, 24–35 cm. Faint, subhorizontal parallel lamination is produced by centimeter-scale alternation with clayey silt of the same color. The sand contains quartz, feldspar, rock fragments, volcanic glass, and inorganic carbonates as *major components.*



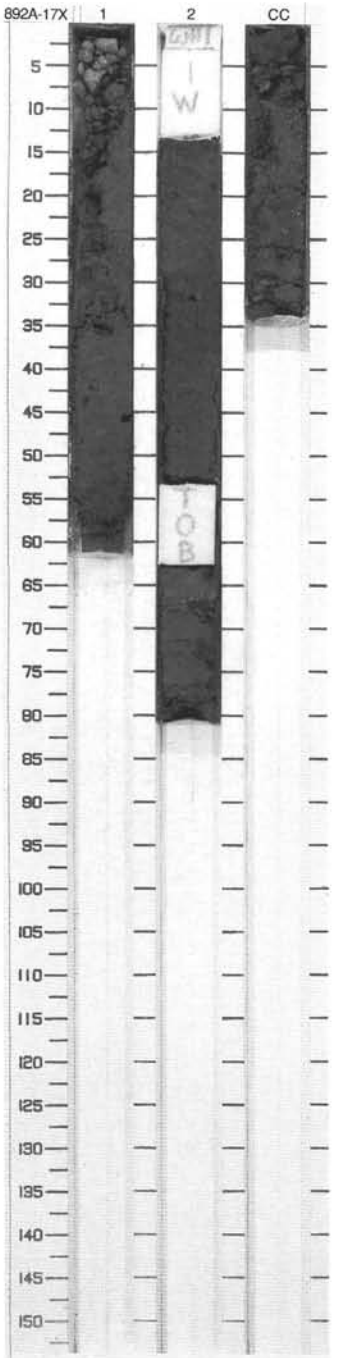
SITE 892 HOLE A CORE 16X CORED 125.5 - 135.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1 CC	Pliocene L.			I S M S	5.2GY 2.8/1.5	FIRM CLAYEY SILT and LAMINATED CLAYEY SILT Major Lithologies: FIRM CLAYEY SILT, very dark greenish gray (5.2GY 2.8/1.5), fragmented in millimeter-size angular pieces, occurs in Section 1, 16–34 cm. Faint traces of subhorizontal bedding are present. Major components in smear slides are clay minerals (about 50%), quartz, feldspar, and inorganic carbonates. The biogenic component is about 8%. LAMINATED SILTY CLAY, very dark greenish gray (4.8GY 2.9/1.5), faintly parallel laminated, occurs throughout Section CC. Lamination is subhorizontal below Core Catcher, 20 cm. Above Section CC, 20 cm, lamination indicates apparent dip of about 45°. Patches of light colored carbonate silt, a few centimeters across, develop parallel to lamination. The composition of the silty clay described in smear slides is similar to that in the firm clayey silt. The sediment shows slight reaction to HCl.



SITE 892 HOLE A CORE 17X CORED 135.0 - 144.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	upper Pliocene	◇ ◇	~WWWW~	S	5.1GY 2.8/1.5	CLAYEY SILT and SANDY SILT Major Lithologies: CLAYEY SILT, very dark greenish gray (3.4GY 2.8/1.5 to 4.2GY 2.9/1.5), fractured into small (mm-scale) angular pieces with soft silty matrix in Section 2, firm and fissile in Section CC. SANDY SILT, very dark greenish gray (5.1GY 2.8/1.5), contains subangular to rounded fragments (up to 5 cm in diameter) of strongly cemented sediments. Minor Lithology: VERY FINE CALCAREOUS SILT, light olive gray to yellowish gray, restricted to a very disturbed layer in Section 2, 65–66 cm. General Description: Alternation of turbidites with minor hemipelagic sediments. Upper interval of this core (Section 1, 0–20 cm) shows brecciated sediment of gravel size which is believed to be due to downhole reworking (fill).
						IW	4.2GY 2.9/1.5 to 3.4GY 2.8/1.5	
		2				S W S		
		CC				S M		



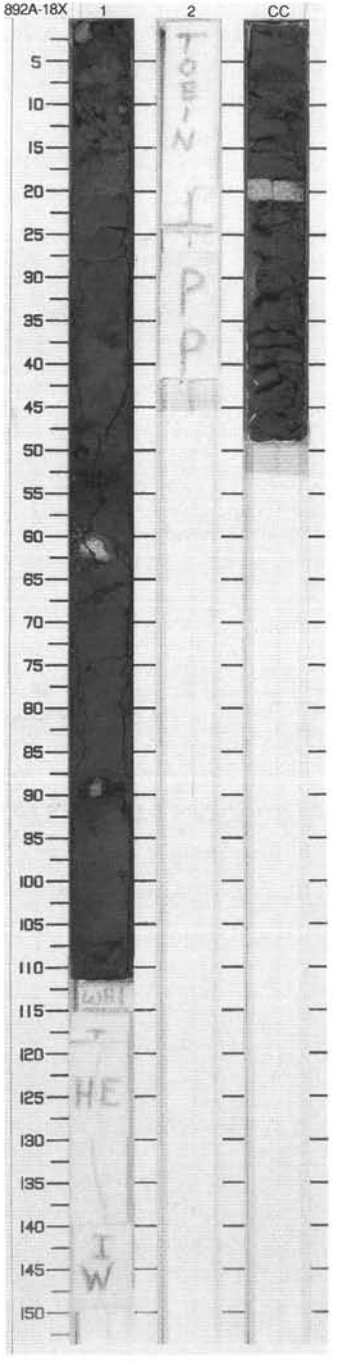
SITE 892 HOLE A CORE 18X CORED 144.5 - 154.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	upper Pliocene			S S S	4.5GY 3.0/1.2	CLAYEY SILT
						S	Variable	Major Lithology: FIRM CLAYEY SILT, very dark greenish gray to greenish gray (4.5GY 3.0/1.2 to 5.7GY 2.1/2.1), uniform, with shear zones (mm-scale), fractured into small firm angular pieces in Section 1, 0–15 cm, and in Section CC. The Core Catcher, 10–15 cm, is enriched in dispersed glaucony.
2		2				W		
						W_I		
						W		
		CC				W		
						M	5.6GY 2.6/3.7	

Minor Lithologies:
COARSE SAND AND GRAVEL, greenish black (7.0GY 2.1/2.0 to 7.3GY 2.1/1.9), with a soft silty matrix, observed in Section 1, 46–57 cm and 89–92 cm.
PEBBLES, angular to subangular, consisting of strongly lithified sediments, chaotically dispersed in clayey silt (Section 1, 0–15 cm) or restricted to layers of coarse sand (Section 1, 89–92 cm). A pebble (about 1.5 cm in diameter) of clayey siltstone with very fresh glaucony spherules and a shell mold occurs in Section 1, 50 cm. Olive black claystone clasts with a very fine lamination, bearing quartz-filled veins, were observed in Section 1, 89–91 cm. A single carbonate concretion (3 cm to 5 cm in size) of dolomitic composition occurs in Section 1, 60–64 cm.

General Description:
Sheared clayey silt with layers of coarse sand, gravel. The top 15 cm of the core, where pebbles are found, are believed to consist of fill.

892A 19X NO RECOVERY

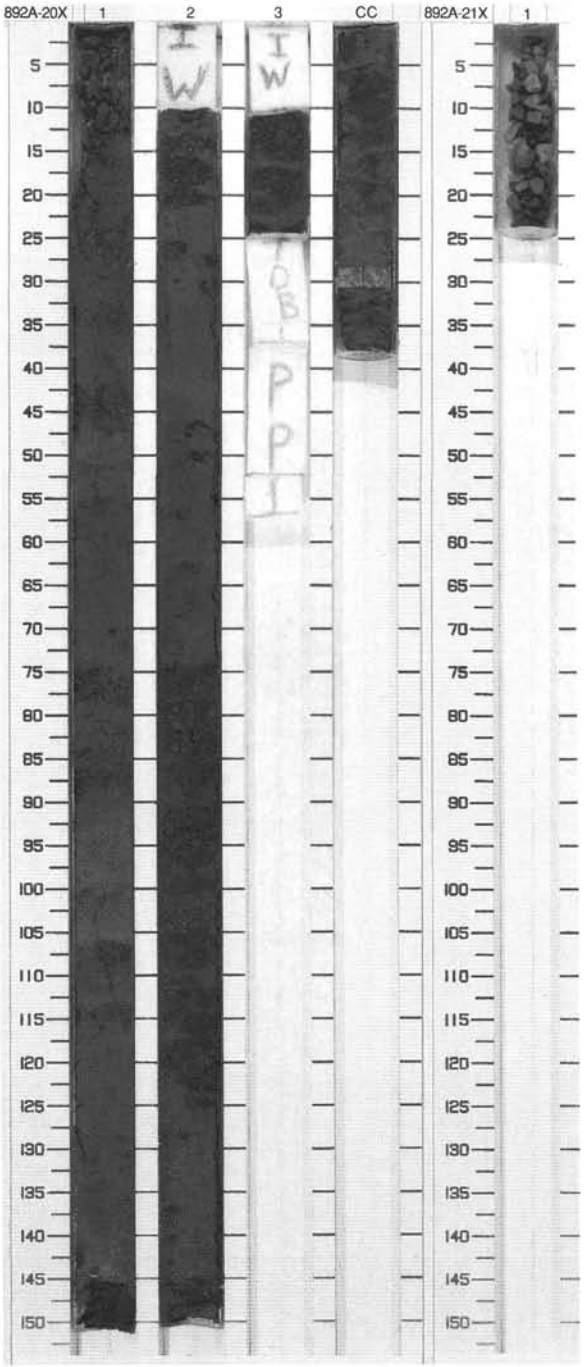


SITE 892 HOLE A CORE 20X — CORED 163.5 - 173.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–3		1, 2, 3, CC	upper Pliocene	◇ ◇ ◇	W	S S S S I S I W W M	5.8GY 2.7/1.6; 5.9GY 2.7/1.6; 5.7GY 2.7/1.6; 6.0GY 2.2/2.0	CLAYEY SILT Major Lithology: CLAYEY SILT, very dark greenish gray to greenish black (4.6GY 3.2/1.4 to 6.0GY 2.3/1.9), firm, fractured into angular fragments, alternating with more plastic or partly fissile clayey silt. Minor Lithology: FRAGMENTS OF SILTSTONE, DOLOSTONE, AND LIMESTONE, very dark greenish gray (5.8GY 2.7/1.6), angular, were observed in Section 1, 0–12 cm. This coarse material is fill which has been reworked downhole.

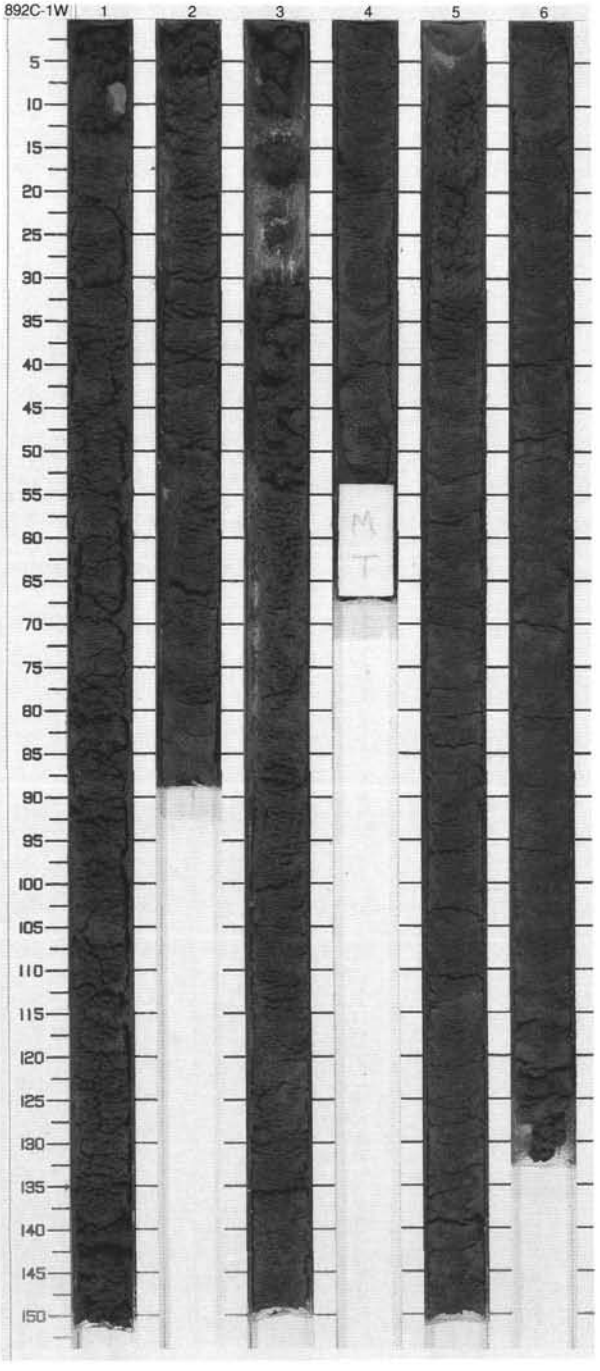
SITE 892 HOLE A CORE 21X — CORED 173.0 - 176.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			u. Pliocene					PEBBLES OF CLAYSTONE, SILTSTONE, AND SANDSTONE Major Lithology: PEBBLES OF CLAYSTONE, SILTSTONE, AND SANDSTONE, greenish black (6.6GY 2.3/1.7), angular to rounded, are all fill of the borehole due to downhole reworking. Sandstones and siltstones are weakly cemented by carbonate. Some pebbles have small cross-stratified carbonate veins. Foraminifers, both planktonic and benthic, shell fragments, glaucony grains, and rare sulfide pseudomorphs on foraminifers were observed. Three thin sections were taken, but cannot be shown in the diagram.



SITE 892 HOLE C CORE 1W CORED 0.0 - 176.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–7		1				S	6.5GY 2.7/1.3	CLAYEY SILT Major Lithology: Very dark greenish gray (5.3GY 2.9/1.3 to 8.0GY 2.6/1.3) CLAYEY SILT, soft to firm, structureless. Indurated sediments are fragmented into small angular pieces (<5 mm), and are slightly soupy in Section 5, 0–38 cm. All sediment bears small amounts (up to 5%) of carbonate.
		2				S	8.0GY 2.5/1.3	
		3				S S	6.7GY 2.5/1.4	Minor Lithology: A single CARBONATE CONCRETION, 3 cm in diameter, occurs at Section 1, 8–11 cm, and consists largely of dolomite.
		4					7.6GY 2.2/1.6	
		5				S S S	7.4GY 2.3/1.5 8.0GY 2.6/1.3 to 5.9GY 2.6/1.4	General Description: The core contains very homogeneous clayey silt. It represents an undetermined interval or intervals from Hole 892C incorporated into the core barrel while washing down.
		6				S	7.6GY 2.4/1.5	

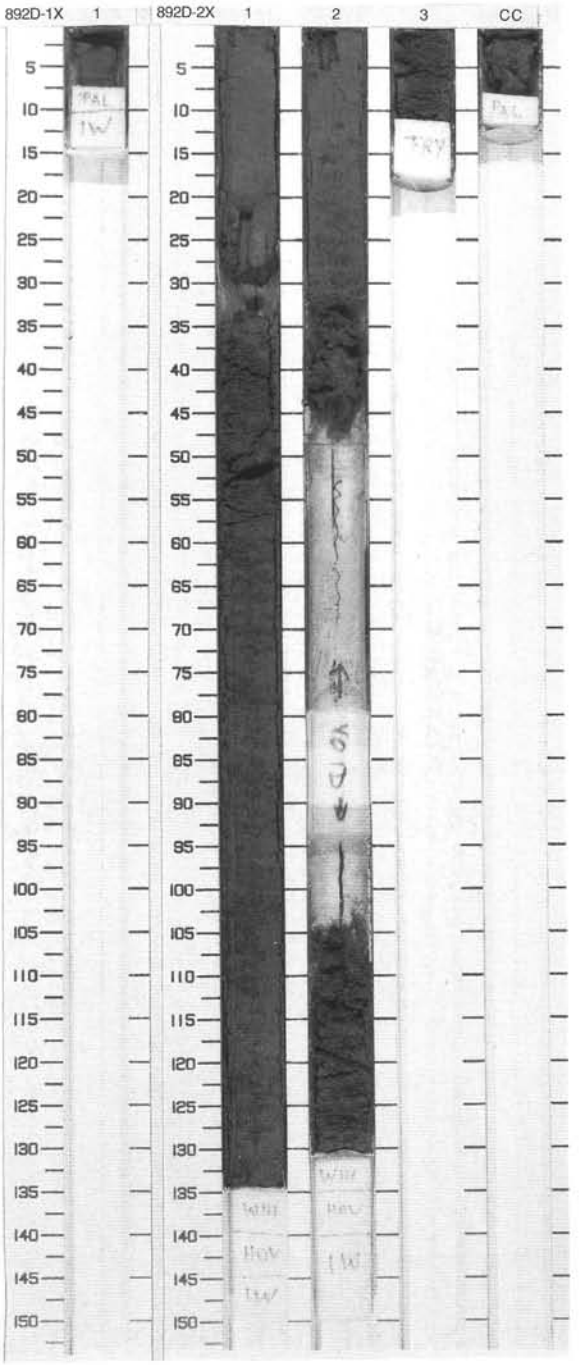


SITE 892 HOLE D CORE 1X CORED 0.0 - 8.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			upper Pliocene					SILTY CLAY Major Lithology: SILTY CLAY, very dark greenish gray (5.5GY 2.9/1.5), homogeneous and structureless. Sediment does not show reaction to HCl. Minor Lithology: GLAUCONY SAND, coarse, greenish black (8.0GY 2.2/1.9), poorly sorted, shows reaction to HCl. Glaucony is about 70% in smear slides. Diatoms, inorganic carbonates, clay minerals, and opaques are other major components. General Description: At 4 cm there is a patch of carbonate-rich sediment (about 1 cm across). A smear slide has been taken at 2 cm. A sample for interstitial water has been taken from 9 cm to 12 cm, and a paleontology sample from 7 cm to 9 cm.

SITE 892 HOLE D CORE 2X CORED 8.5 - 18.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1 2 3	Void	1 2 CC	upper Pliocene		W W W W	S WWI WWI M	6.3GY 3.3/1.5 6.1GY 3.1/1.3 6.1GY 3.1/1.3	CLAYEY SILT Major Lithology: CLAYEY SILT very dark greenish gray (7.0GY 2.5/1.7 to 6.1GY 3.1/1.3), structureless and homogeneous. It shows slight reaction to HCl. Faint lamination is present only in Section 1, 0–5 cm, associated with lighter carbonate-rich sediment patches and a carbonate concretion (1 cm across). Major components of the clayey silt are clay minerals, quartz, feldspar, and inorganic carbonates. General Description: Gas expansion fractures and mousse-like texture are the only type of drilling disturbance.

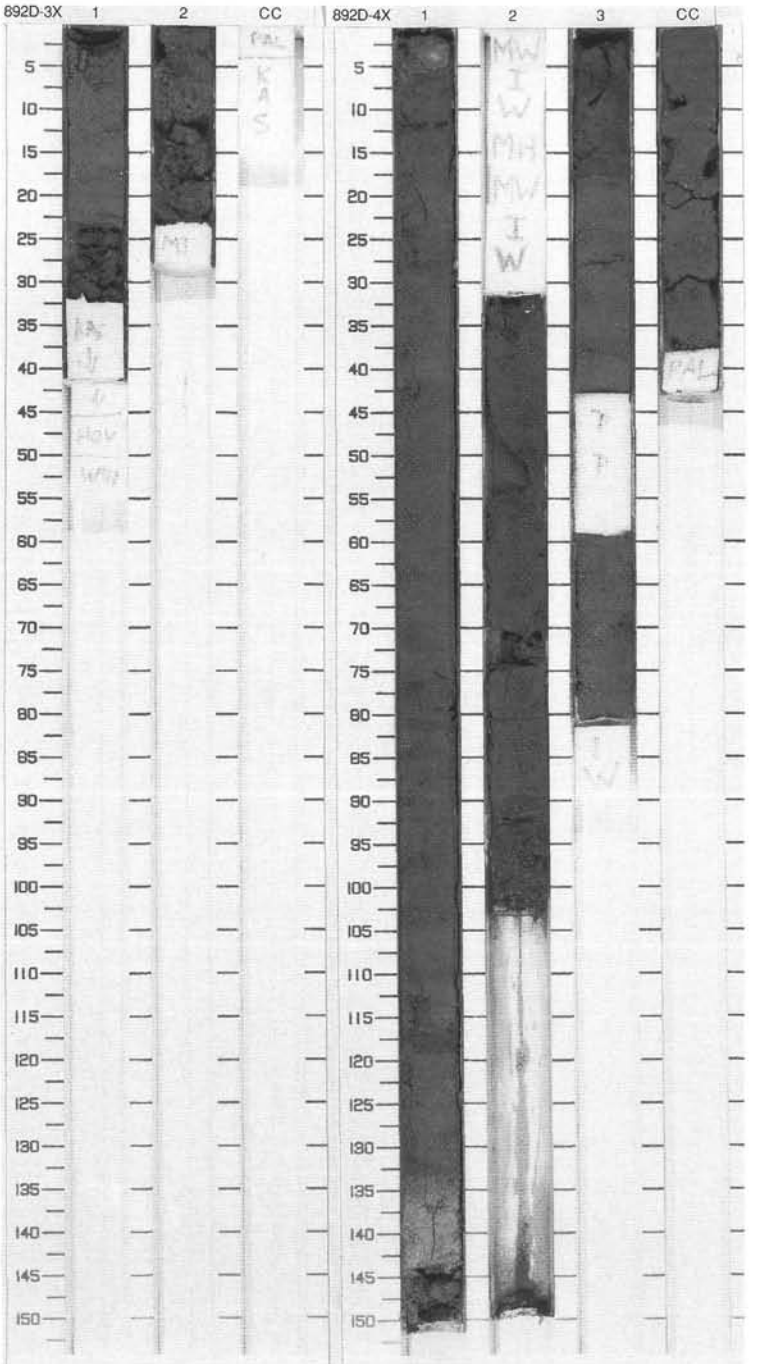


SITE 892 HOLE D CORE 3X CORED 18.0 - 27.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1 2 CC	u. Pliocene		W	W W W WM	7.0GY 3.5/1.1 to 6.5GY 3.0/1.4	CLAYEY SILT Major Lithology: CLAYEY SILT, very dark greenish gray (7.0GY 3.5/1.1 to 6.5GY 3.0/1.4), homogeneous and structureless. Sediments shows slight reaction with HCl. General Description: Gas expansion disturbance and mousse-like texture is observed in all sections.

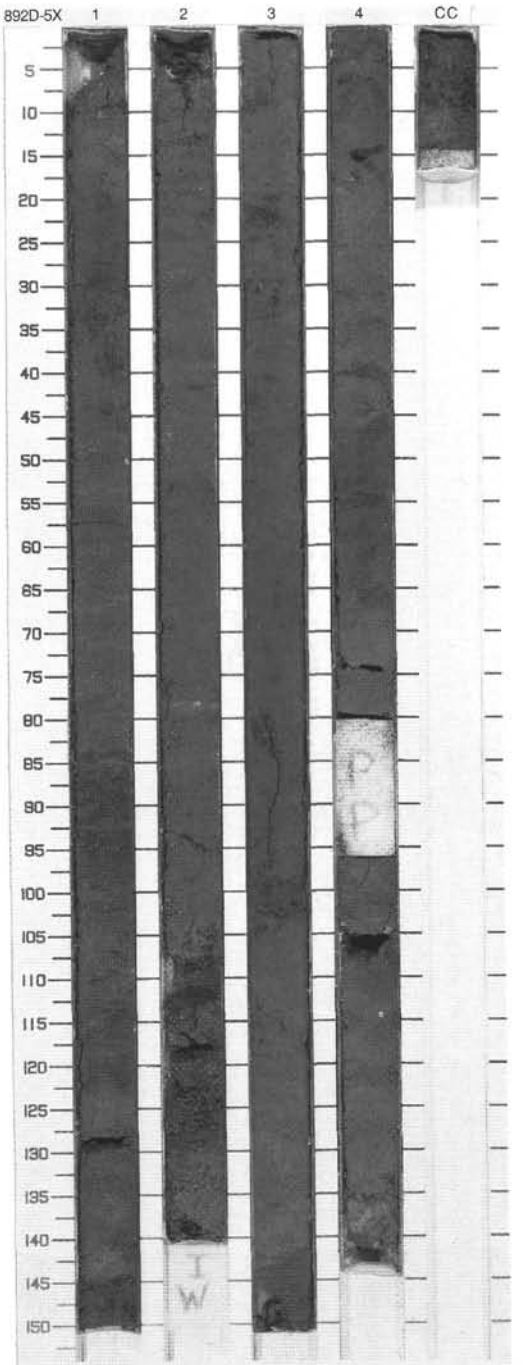
SITE 892 HOLE D CORE 4X CORED 27.5 - 37.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1 2 3		1 2 3 CC	upper Pliocene		W W W W W	S S S S S I W W W I S S S W I M	3.8GY 3.2/0.9 to 6.3Y 4.2/1.3 4.6GY 2.9/1.3 to 5.1GY 2.8/1.3 5.4GY 3.2/1.2	CLAYEY SILT WITH DIATOMS Major Lithology: CLAYEY SILT WITH DIATOMS, very dark greenish gray (3.8GY 3.2/0.9 to 5.7GY 3.5/1.1), contains mud clasts (0.2–0.7 cm in size) and glaucony sand. Clayey silt is fragmented into small firm pieces (0.2–0.5 cm in size) in Section 2, 35–107 cm and in Section 3, 0–18 cm and 59–81 cm; soupy in Section 2, 95–107 cm. Minor Lithologies: GLAUCONY SAND, greenish black, restricted to layers with transitional boundaries in Section 1, 27–30 cm, 76–90 cm and in Section 3, 35–36 cm, 38–39 cm. CALCAREOUS CLAYEY SILT, olive gray (6.3Y 4.2/1.3), very soft and plastic, observed in Section 1, 134–150 cm. General Description: A carbonate concretion was observed at the the top of Section 1.



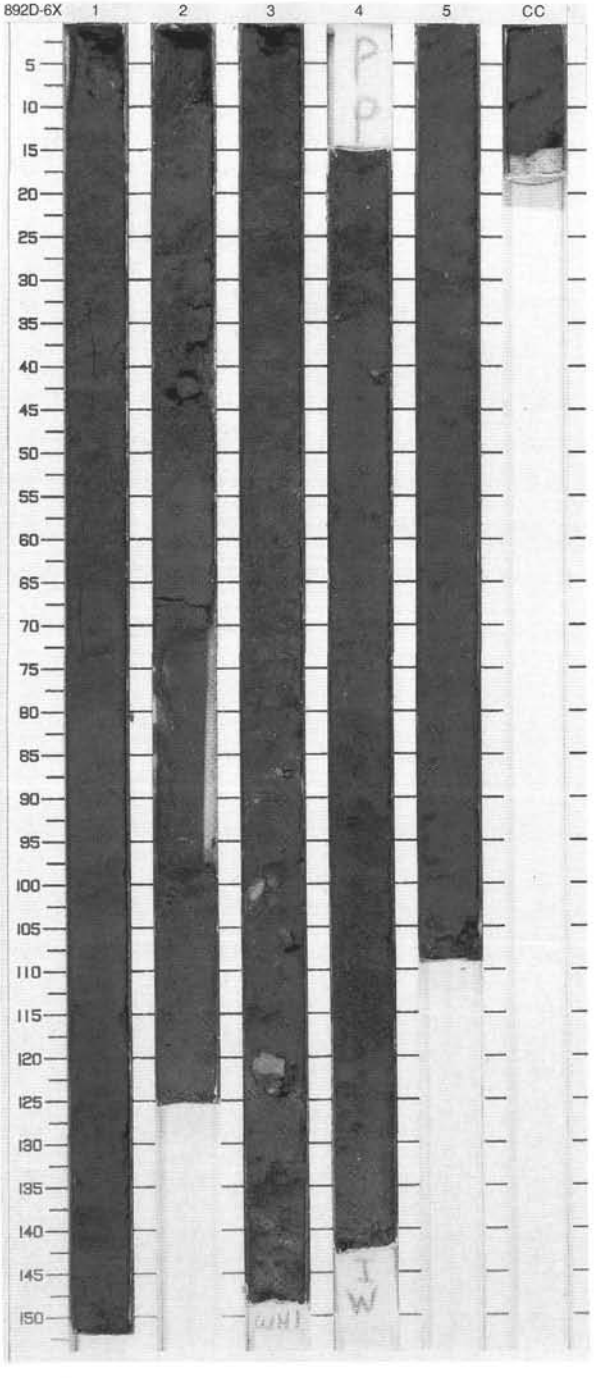
SITE 892 HOLE D CORE 5X CORED 37.0 - 46.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–6		1, 2, 3, 4, CC	lower Pliocene (?)			S, S S, S, S, S, W, I, S, S S S, W, M	4.2GY 3.1/1.2; 9.7GY 2.5/1.4 to 2.4GY 3.1/1.3; 1.7GY 3.1/1.3; 5.5GY 2.8/1.2 to 5.3GY 3.0/1.2; 5.1GY 3.0/1.2	CLAYEY SILT WITH DIATOMS Major Lithology: CLAYEY SILT WITH DIATOMS, very dark greenish gray (1.7GY 3.1/1.3 to 5.8GY 2.9/1.1), fractured into small (<1 cm) firm pieces; soupy in Section 2, 107–128 cm. Clayey silt contains glaucony and small patches of light gray to tan plastic clayey silt. Pure fraction of very fresh, translucent volcanic glass was observed in smear slides at Section 2, 78 cm, and Sedtion 4, 18 cm and 22 cm. Minor Lithologies: GLAUCONY SILT, greenish black (9.7 GY 2.5/1.4), restricted to layers with transitional boundaries in Section 1, 84–144 cm, Section 2, 0–52 cm, and Section 3, 141–150 cm. CALCAREOUS CLAYEY SILT, olive gray, restricted to small patches in Section 1, 0–10 cm, and Section 4, 16–19 cm.



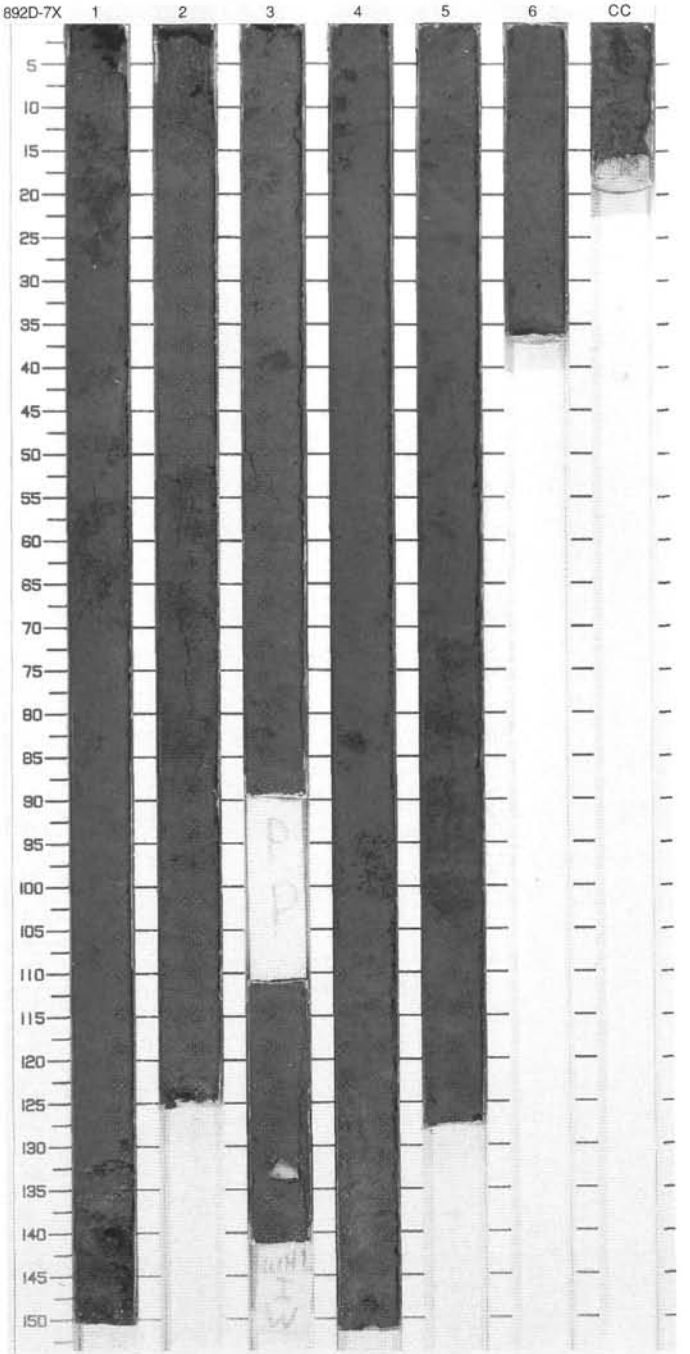
SITE 892 HOLE D CORE 6X CORED 46.5 - 54.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–7	Void	1	lower Pliocene (?)			S	4.2GY 3.0/1.3 and 1.5G 2.5/1.3	CLAYEY SILT WITH DIATOMS Major Lithology: CLAYEY SILT WITH DIATOMS, very dark greenish gray (2.8GY 3.0/1.2 to 8.9GY 2.7/1.2), fragmented into small (<1 cm) pieces in Section 1, 0–12 cm, 42–80 cm, 97–103 cm, 117–150 cm, Section 2, 0–11 cm, 26–50 cm, 100–105 cm, and Section 4, 15–120 cm. Clayey silt contains cemented angular mud clasts in Sections 3 and 5. Sometimes mud clasts show rection with HCl. Minor Lithologies: GLAUCONY SAND, greenish black (1.5G 2.5/1.3), especially abundant in Sections 1 and 3, dispersed in clayey silt. CALCAREOUS CLAYEY SILT, olive gray, observed in small (about 1 cm across) patches in Section 3. CARBONATE CONCRETIONS, olive greenish gray (0.5GY 4.1/1.3), with irregular surfaces, observed in Section 3. General Description: Inclined boundaries with dips about 30° were observed in Section 2, 10 cm and 25 cm.
		2				S	3.4GY 3.4/1.1	
		3				S	5.3GY 2.6/1.4 to 8.9GY 2.7/1.2	
		4				S	4.0GY 3.0/1.2	
		5				I W	4.5GY 2.9/1.2	
		CC				I	5.2GY 2.5/1.3	
						M	6.6GY 2.6/1.2 to 4.8GY 2.9/1.1	



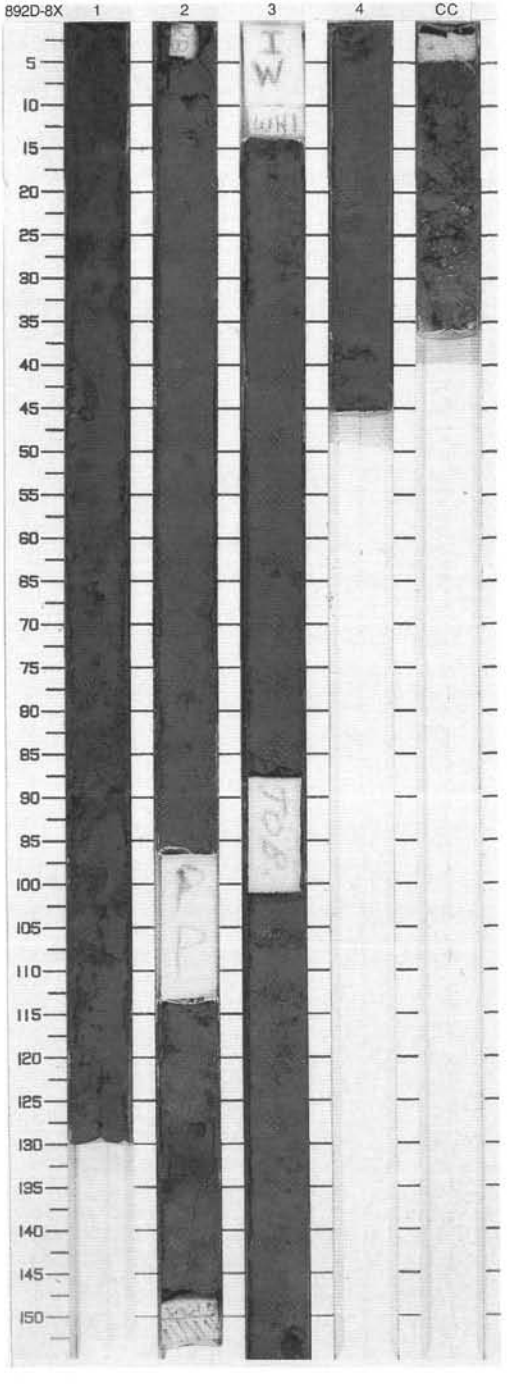
SITE 892 HOLE D CORE 7X CORED 54.0 - 61.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–7		1	lower Pliocene (?)				5.6GY 3.0/1.1	CLAYEY SILT WITH DIATOMS
							2.2GY 3.1/1.3	Major Lithology: CLAYEY SILT WITH DIATOMS, very dark greenish gray (2.2 GY 3.1/1.3 to 6.4GY 2.4/1.4), partly fractured, fissile, soupy in Section 1, 131–150 cm, and Section 2, 0–12 cm, mottled in Sections 4 and 5.
		2					to	
		3					3.8GY 3.2/1.2	Minor Lithologies: GLAUCONITE SAND, greenish black, dispersed and in patches. CARBONATE CONCRETION, about 4 cm across, observed in Section 3, 131–134 cm.
						W W		
						S	3.8GY 3.2/1.2	General Description: Inclined boundaries (dips about 20°) observed in Section 1, 40 cm, and Section 3, 20 cm.
		4				WI	3.2GY 3.2/1.1	
							5.9GY 2.9/1.2	
		5				S		
		6						
		CC				M		

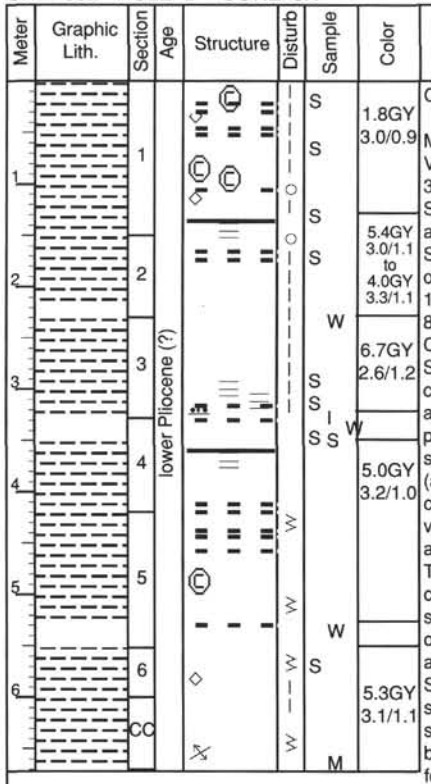


SITE 892 HOLE D CORE 8X CORED 61.7 - 69.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–5		1, 2, 3, 4, CC	lower Pliocene (?)	◇		S, W, S I W, W, S S M S	7.5GY 2/1.7 to 6.1GY 2.7/1.3; 6.1GY 2.7/1.3; 5.0GY 3.5/1.1; 5.0GY 3.5/1.1 to 8.0GY 2.3/1.2	CLAYEY SILT Major Lithology: CLAYEY SILT, very dark greenish gray to greenish black (5.0GY 3.5/1.1 to 7.5GY 2.0/1.7), mostly homogeneous in color and structureless, firm and fissile, fragmented in small angular cm-size pieces. Rarely, the sediment is mottled with patches of lighter color. Major components are clays (about 25%), quartz, feldspar, volcanic glass, and mica. In a smear slide at Section 1, 5 cm, the content of diatoms is 16%. Thin bedding, identified by slight color changes, is present in Sections 2, 3, and 4. Parallel lamination is present only in Section 4, 20–30 cm: it could be produced by slight sediment deformation. The section is disturbed by drilling biscuiting. A cm-size angular fragment of a carbonate concretion is present in Section 1, 45 cm. Minor Lithologies: SAND is present in Section 2, 130–135 cm, as a graded bed of darker heavy mineral sand, and in Section CC, 32–37 cm, as carbonate-cemented sandstone. Major components of the latter are quartz, feldspar, rock fragments, and mica. GRAVEL is present in Section CC, 0–32 cm. It is composed of rounded to subangular fragments of siltstone and sandstone with white calcite veins. A fine matrix could be contaminated with drilling mud. The greenish black (8.0GY 2.3/1.2) color of the matrix is very distinct.



SITE 892 HOLE D CORE 9X CORED 69.3 - 77.6 mbsf



Description

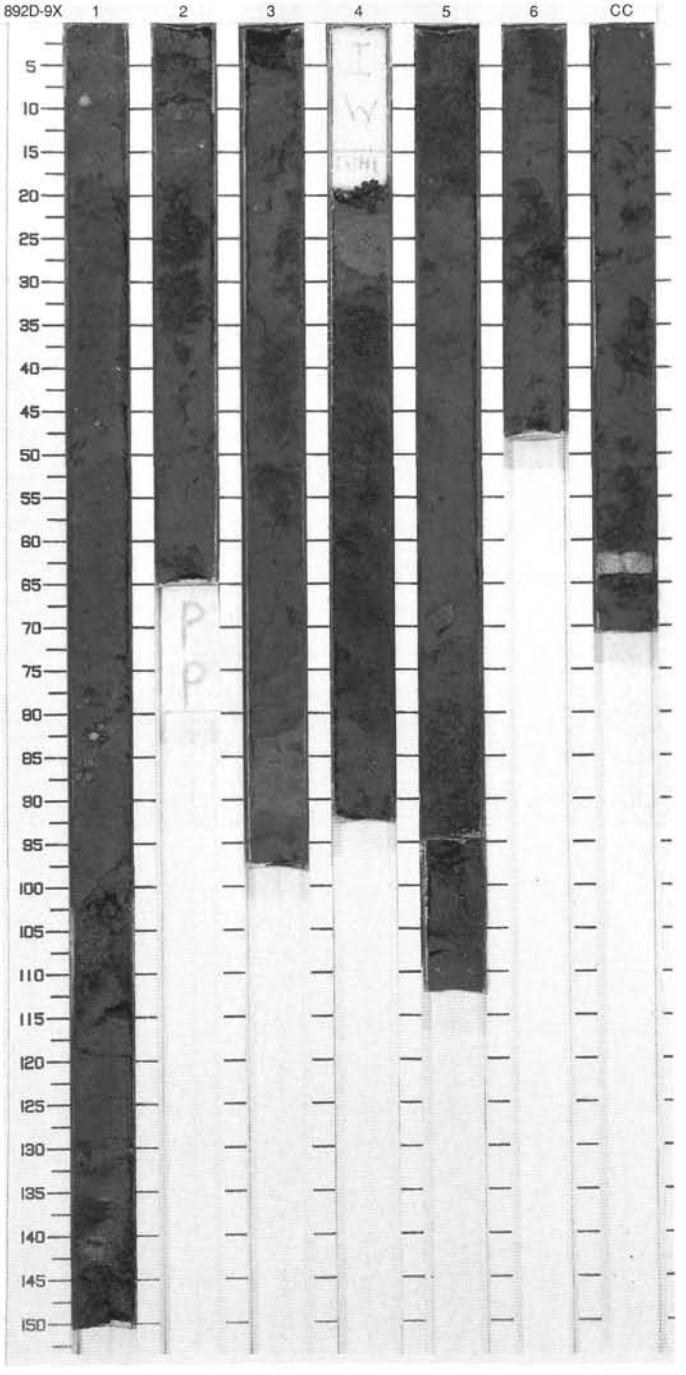
CLAYEY SILT

Major Lithology:
Very dark greenish gray (1.8GY 3.0/0.9 to 6.7GY 2.6/1.2) CLAYEY SILT, mostly firm and structureless, and fragmented into angular pieces. Sedimentary parallel lamination is observed on a mm-scale at Section 1, 130–135 cm, Section 3, 70–73 cm and 84–87 cm, and Section 4, 22–27 cm. Convolute lamination is found at Section 4, 27–30 cm. Several color changes occur through all sections, and are believed to represent bedding planes. These layers show subhorizontal to slightly dipping (about 20°) orientation. Indurated clasts (with fine, carbonate-filled veins) are present at Section 1, 45 cm and 103 cm, and Section 6, 36 cm. Thin layers (up to 1 cm in thickness) of coarser, poorly sorted clayey silt with significant amounts (about 10%–20%) of sand show fining upward gradation and sharp basal contacts (e.g. Section 3, 89–90 cm). Matrix reacts slightly with HCl. Deformation in the softer clayey silt is indicated as shear bands, mottling and convoluted folding on a cm-scale.

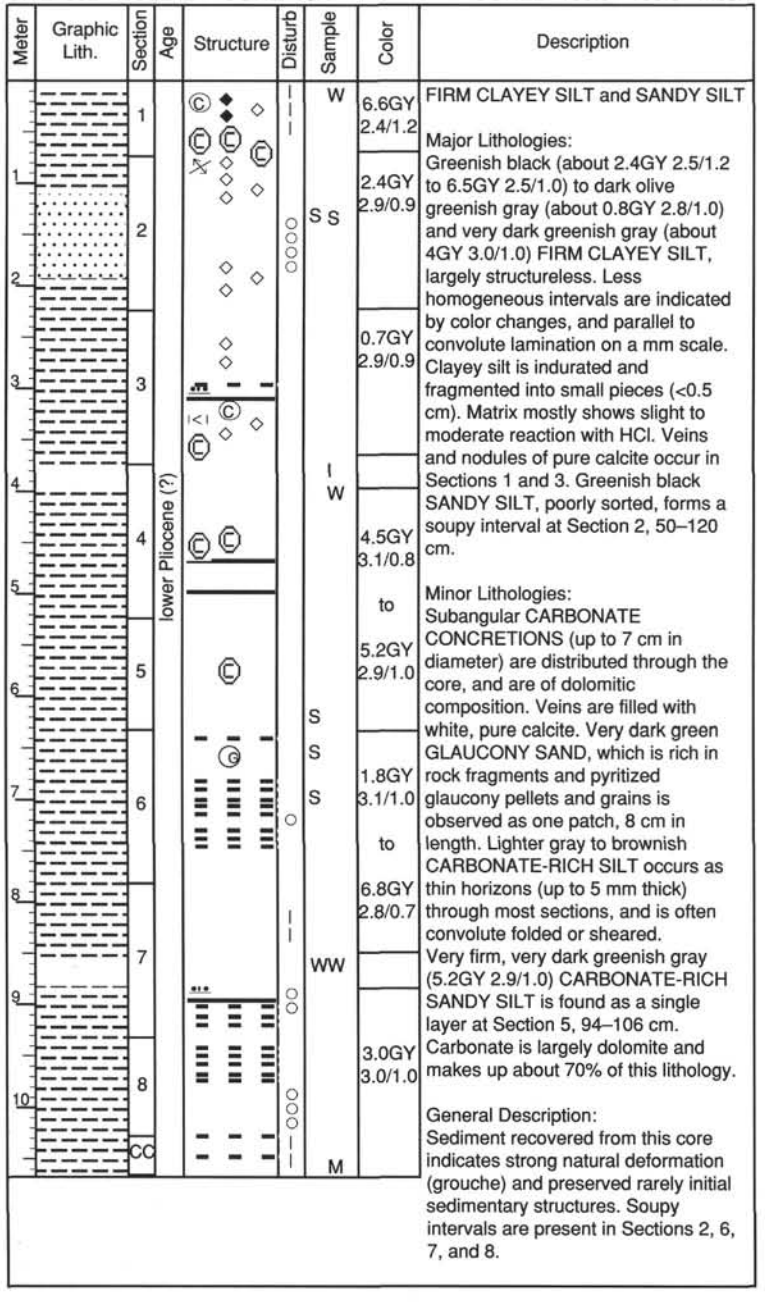
Minor Lithologies:
Very dark greenish gray (7.0GY 2.9/1.0), hemipelagic CALCAREOUS SILT, occurs both as thin layers (Section 4, 22–30 cm) and as patches in the clayey silt. Parallel and convolute lamination are observed. Color changes indicate sedimentary layering (about 20° dip) and shear deformation of the soft material. CARBONATE CONCRETIONS of angular shape and largely dolomitic composition are found in Sections 1 and 5. Concretions reach up to 4 cm in diameter.

General Description:
Sediment recovered from this core largely consists of clayey silt with rare layers of coarser grained material.

The interval from 77.6 to 100.0 mbsf was drilled without coring.



SITE 892 HOLE D CORE 10X CORED 100.0 - 109.5 mbsf

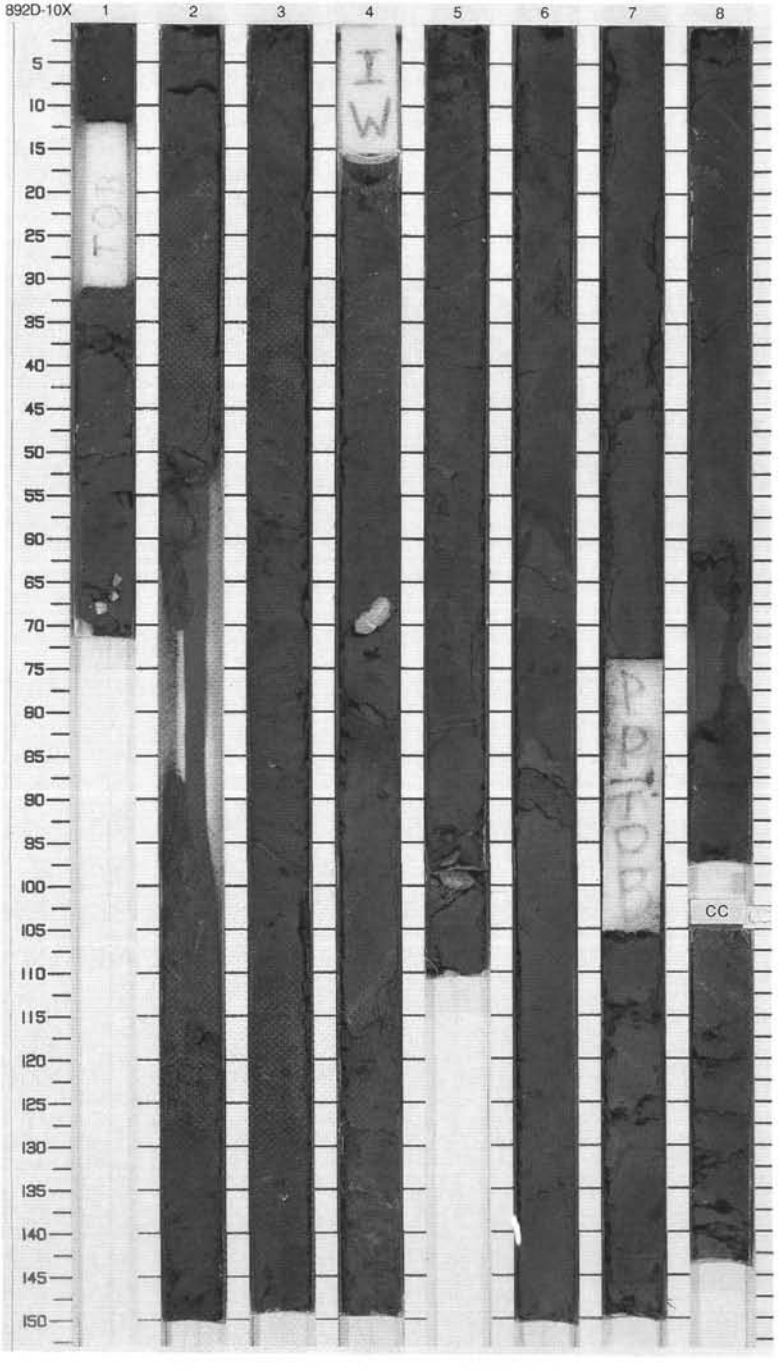


FIRM CLAYEY SILT and SANDY SILT

Major Lithologies:
Greenish black (about 2.4GY 2.5/1.2 to 6.5GY 2.5/1.0) to dark olive greenish gray (about 0.8GY 2.8/1.0) and very dark greenish gray (about 4GY 3.0/1.0) FIRM CLAYEY SILT, largely structureless. Less homogeneous intervals are indicated by color changes, and parallel to convolute lamination on a mm scale. Clayey silt is indurated and fragmented into small pieces (<0.5 cm). Matrix mostly shows slight to moderate reaction with HCl. Veins and nodules of pure calcite occur in Sections 1 and 3. Greenish black SANDY SILT, poorly sorted, forms a soupy interval at Section 2, 50–120 cm.

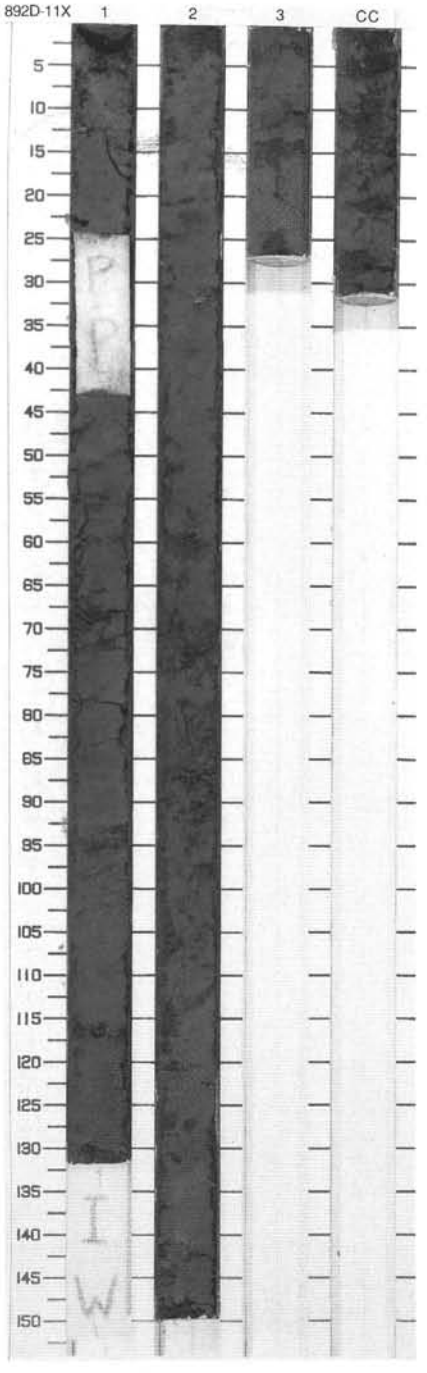
Minor Lithologies:
Subangular CARBONATE CONCRETIONS (up to 7 cm in diameter) are distributed through the core, and are of dolomitic composition. Veins are filled with white, pure calcite. Very dark green GLAUCONY SAND, which is rich in rock fragments and pyritized glaucony pellets and grains is observed as one patch, 8 cm in length. Lighter gray to brownish CARBONATE-RICH SILT occurs as thin horizons (up to 5 mm thick) through most sections, and is often convolute folded or sheared. Very firm, very dark greenish gray (5.2GY 2.9/1.0) CARBONATE-RICH SANDY SILT is found as a single layer at Section 5, 94–106 cm. Carbonate is largely dolomite and makes up about 70% of this lithology.

General Description:
Sediment recovered from this core indicates strong natural deformation (grouche) and preserved rarely initial sedimentary structures. Soupy intervals are present in Sections 2, 6, 7, and 8.



SITE 892 HOLE D CORE 11X CORED 109.5 - 119.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	Void	1	upper Pliocene		W W W W W	W S S I S S M	2.4GY 3.4/1.1 to 5.8GY 2.8/1.2	CLAYEY SILT WITH DIATOMS Major Lithology: CLAYEY SILT WITH DIATOMS, very dark greenish gray (2.4GY 3.4/1.1) to greenish black (7.4GY 2.2/1.5), firm and fissile, fractured into small angular pieces (mostly <0.5 cm across; up to 1.5 cm in Section 2). Minor Lithology: SANDY SILT, very dark greenish gray (3.5GY 3.0/0.8), contains angular clasts up to 2 cm across of sandstone, siltstone, sometimes with carbonate cement. Sandy silt shows weak reaction with HCl.
2		2					6.8GY 2.7/1.3	
3		3						
		CC						

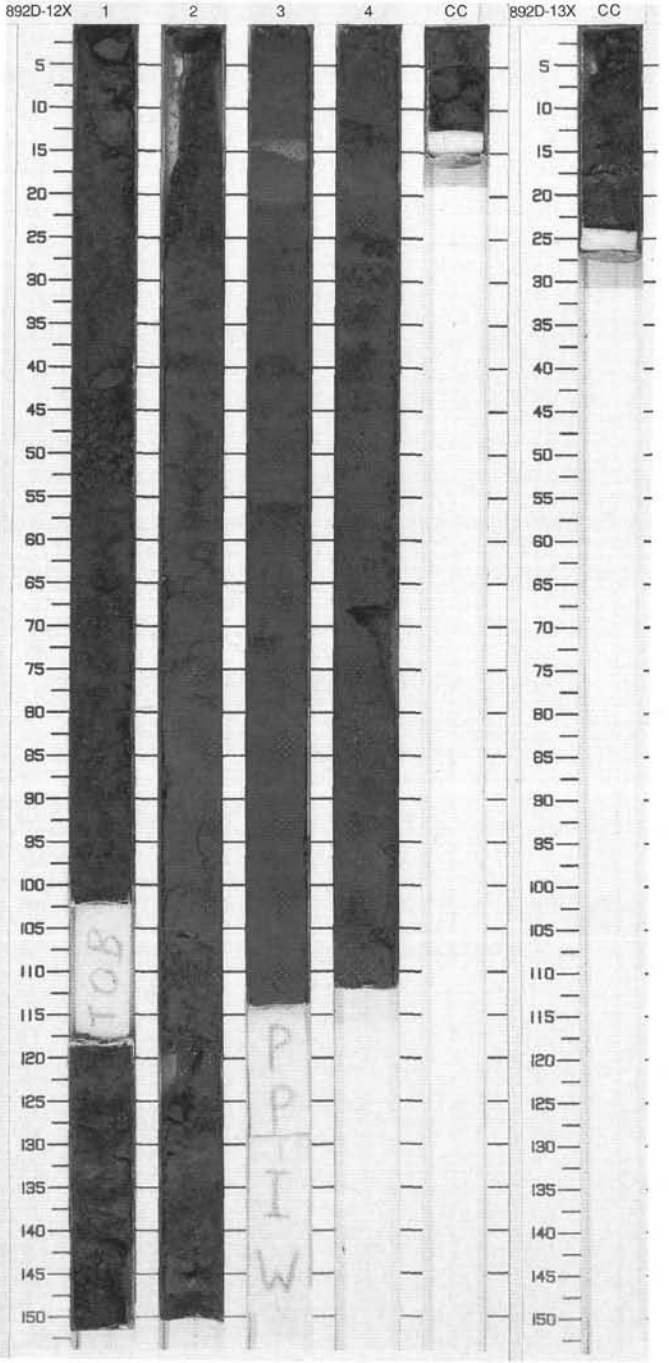


SITE 892 HOLE D CORE 12X CORED 119.0 - 128.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–5		1, 2, 3, 4, CC	?	◆ ◇ ⓒ ◇ ◇ ◇ ◇	WWWWW / WOOOW / O	W S S S S W_I M	6.2GY 2.5/1.4; 5.7GY 2.9/1.2; 5.5GY 2.8/1.3 to 4.4GY 3.3/1.2; 5.8GY 2.5/1.5 to 4GY 2.8/1.3	CLAYEY SILT WITH DIATOMS Major Lithology: CLAYEY SILT WITH DIATOMS, very dark greenish gray (5.6GY 2.7/1.4 to 2.1GY 3.2/1.4) to greenish black (5.8GY 2.5/1.5 to 6.2GY 2.5/1.4), firm, fractured into angular pieces (commonly <1 cm, sometimes 1–4 cm across), soupy in Section 2, 0–25 cm, 120–130 cm, and Section 4, 65–75 cm, contains angular mud clasts and pebbles of siltstone and sandstone. Minor Lithology: CALCAREOUS CLAYEY SILT, dark olive gray (4.1Y 3.2/1.4), very plastic, observed in disturbed layers and patches in Section 1, 138–140 cm, Section 2, 74–75 cm, and occasionally in Section 3, 0–21 cm. General Description: Inclined fracture zone (dip about 20°) was observed in Section 4, 15–18 cm. Small carbonate concretion was observed in Section 2, 106–107 cm.

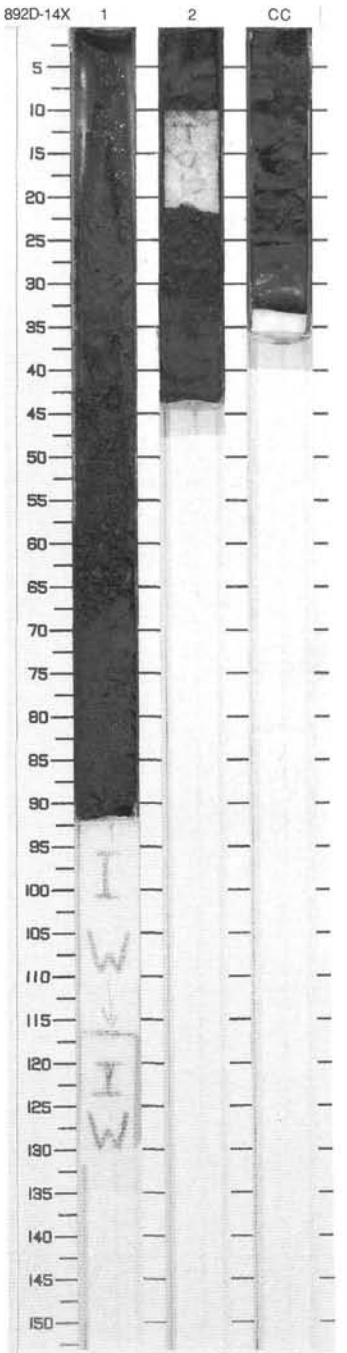
SITE 892 HOLE D CORE 13X CORED 128.5 - 138.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		CC	?	◇ ◇		S I M		CLAYEY SILT Major Lithology: CLAYEY SILT, greenish black (5.3GY 2.5/1.5), firm and fissile, fractured, contains clasts of siltstone and sandstone at 0–7 cm. Minor Lithology: CARBONATE-CEMENTED SANDSTONE, observed in a fractured layer at 16–18 cm.



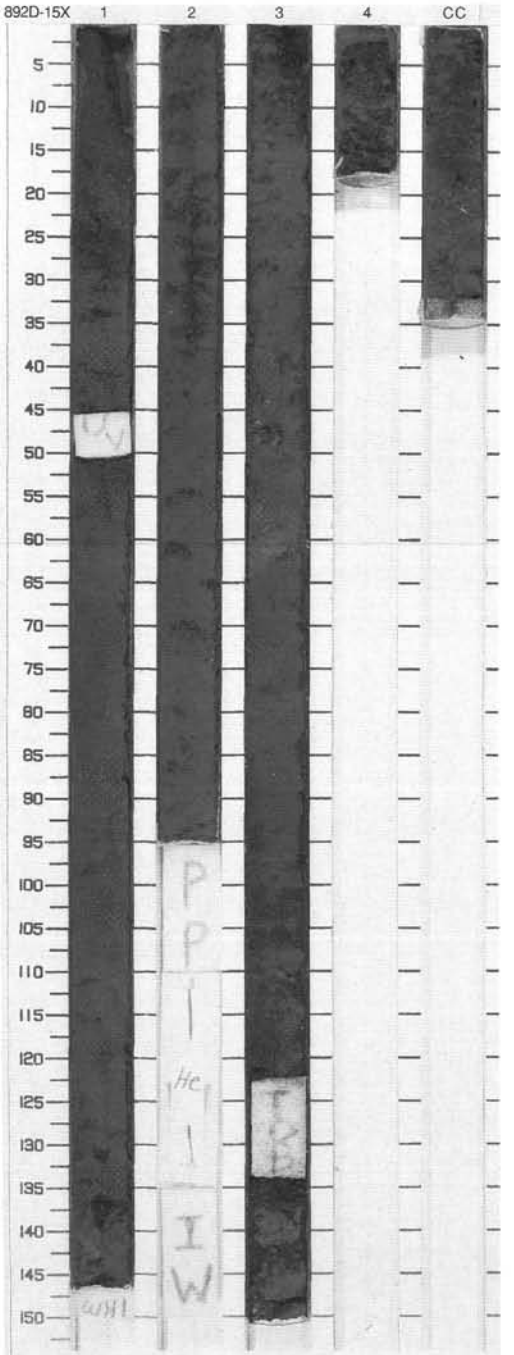
SITE 892 HOLE D CORE 14X CORED 138.0 - 147.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	?	◆ ◇	○○○○	S	6.9GY 2/1.9	CLAYEY SILT WITH DIATOMS Major Lithology: CLAYEY SILT WITH DIATOMS, very dark greenish gray (4.8GY 2.8/1.4) to greenish black (3.3GY 2.5/1.5 to 6.9GY 2.0/1.9), very firm, fractured into angular pieces, soupy in Section 1, 0–60 cm. Clayey silt shows reaction with HCl and contains mud clasts and pebbles in Core Catcher.
						W I		
		2				W	about 4GY 2.5/1.5	
2		CC				S M		



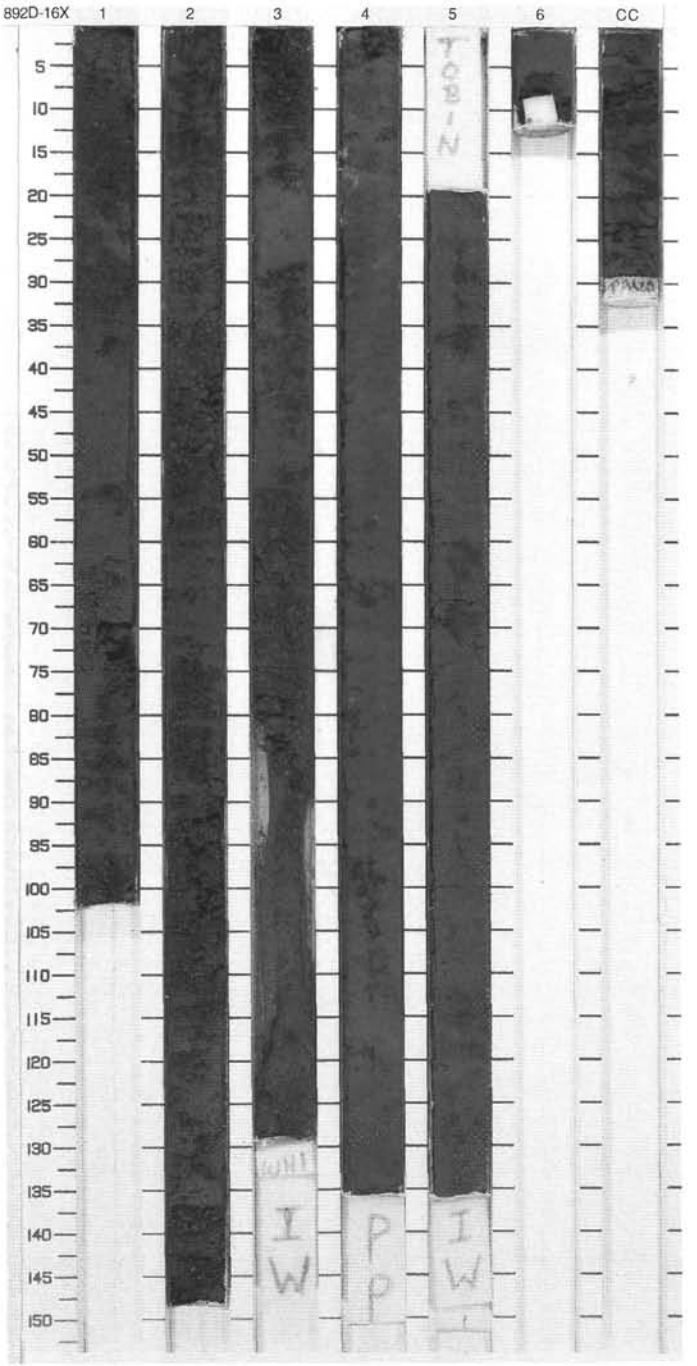
SITE 892 HOLE D CORE 15X CORED 147.5 - 157.0 mbsf

Graphic Lith.	Age	Structure		Color	Description
1	1	G	S	5.8GY 3.0/1.2	CLAYEY SILT Major Lithology: CLAYEY SILT, very dark greenish gray (5.2GY 2.9/1.3 to 5.8GY 3.0/1.2), highly fractured, no sedimentary structures visible. Minor Lithologies: CALCAREOUS SILTY CLAY, olive gray and SANDY CLAY, very dark greenish gray (6.4GY 3.1/1.0) observed in Section 3, 38–40 cm and 56–61 cm respectively. GLAUCONY was observed in a layer in Section 1, 97–99 cm and as dispersed grains in Core Catcher, 10 cm. General Description: Pebble of sandstone with mineral filled veins was observed in Section 3, 46 cm.
2	2 ?		W	to 5.2GY 2.9/1.3	
			S		
			W		
			W		
3			I		
	3	◇	S	5.2GY 2.9/1.3	
4			W		
	4				
5	CC	G	M		



SITE 892 HOLE D CORE 16X CORED 157.0 - 166.5 mbsf

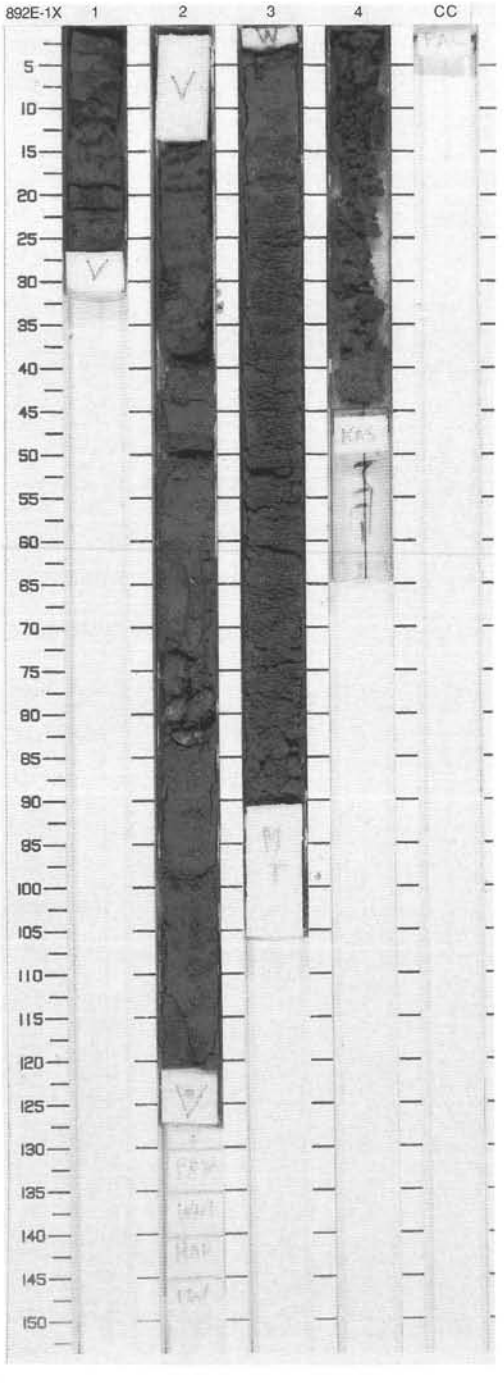
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–7		1				S	4.3GY 3.1/1.3	FIRM CLAYEY SILT Major Lithology: FIRM CLAYEY SILT, very dark greenish gray (4.9GY 3.1/1.3 to 2.7GY 3.3/1.3), fractured in small angular fragments. Fracturing is fine (mm-size pieces) in the lower half of the core (Sections 4, 5, 6, and Core Catcher). In the upper 3 sections pieces are larger (up to 3 cm across). The major components of the sediments are clay minerals (40%), quartz, feldspar, mica, and inorganic carbonates. Mottling, produced by slight color changes, are present in Sections 4 and 5. Patches of lighter colored carbonate-rich sediment (no more than 1 cm-thick) are present in Section 4, 0–30 cm and in the Core Catcher, 27–28 cm. Otherwise, the sediment shows only slight reaction to HCl. Two 2 cm-thick darker layers are present in Section 5, 18 cm to 23 cm. They are enriched in glaucony and volcanic glass.
		2					4.9GY 3.1/1.3	
		3	?				4.5GY 3.2/1.2	
						W		
		4				S S	2.9GY 3.0/1.4	
						W		
						W		
		5					2.7GY 3.3/1.3	
						S		
						I		
		6					3.5GY 2.8/1.5	
		CC				S M		



SITE 892 HOLE E CORE 1X CORED 0.0 - 13.0 mbsf

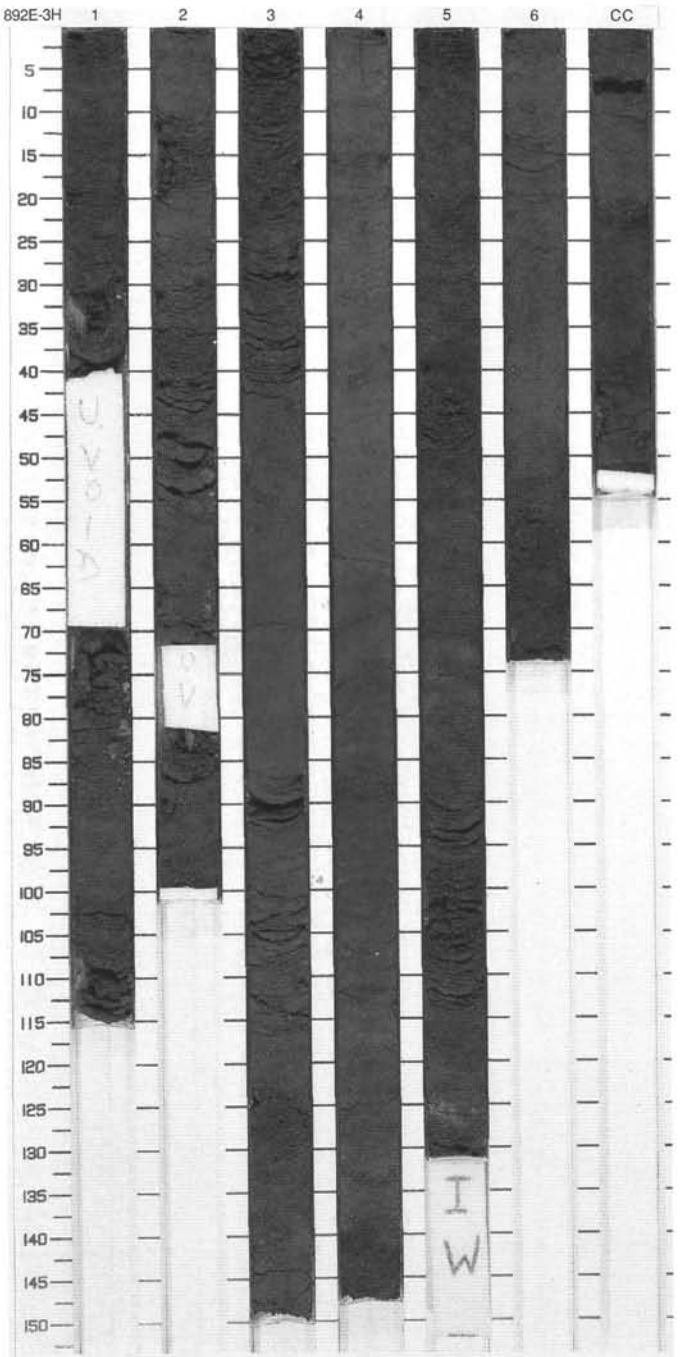
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–3		1, 2, 3, 4 CC				W W W I M	5.9GY 3.0/1.1 to 6.8GY 3.0/1.3; 7.4GY 2.5/1.7 to 6.6GY 3.0/1.8	CLAYEY SILT Major Lithology: CLAYEY SILT, greenish black to very dark greenish gray (7.4GY 2.5/1.7 to 5.9GY 3.0/1.4), soft, structureless and very homogeneous in texture. Sediment shows slight reaction to HCl. Gas expansion fractures are present in Sections 2 and 3. Carbonate concretions occur in Section 2, 70–82 cm. They are composed of structureless subangular pieces (up to 5 cm across) of largely dolomite. Minor Lithology: GLAUCONY SAND, greenish black (7.1GY 2.5/1.7), occurs in 1 cm-thick layers in Section 1, 12 cm, and Section 2, 10–20 cm. The sandy layers show sharp basal contact and gradational upper transition to the clayey silt.

892E 2P NO RECOVERY



SITE 892 HOLE E CORE 3H CORED 33.0 - 42.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	Void	1					3.2GY 2.6/1.8	CLAYEY SILT and CALCAREOUS SILT
							3.2GY 2.6/1.8	Major Lithologies:
		2					1.5GY 3.0/1.6	CLAYEY SILT, greenish black to very dark greenish gray (5.4GY 2.2/2.0 to 2.9GY 3.0/1.6), structureless, with thin to medium bedding indicated by slight color changes and slight grain size differences. Parallel lamination is present in Section 4 (60 cm to 140 cm). Lighter colored patches of carbonate-rich sediment (abut 1 cm thick) are present in Section 4, 117 cm and 134 cm, and Section 5, 72 cm, 76 cm, and 125 cm. Throughout the core the clayey silt shows a slight reaction to HCl.
2								
3		3					4.1GY 2.4/1.9 to 1.4GY 3.4/1.5	
4		4						CALCAREOUS SILT, dark olive greenish gray to very dark greenish gray (1.4GY 3.4/1.5 to 2.3GY 3.1/1.6) is typically mottled, with no sedimentary structures, and shows strong reaction to HCl.
							4.2GY 2.9/1.5	
5		5				I	5.4GY 2.2/2.0 to 2.9GY 3.0/1.6	General Description: The sediment is disturbed by numerous gas expansion fractures. It also appears very dry.
6								
7		6					2.7GY 2.8/1.7 to 2.0GY 3.1/1.5	
		CC				M		



SITE 892 HOLE E CORE 4H CORED 42.5 - 52.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–4		1, 2, 3, CC				M	5.9GY 2.6/1.7 to 2.3GY 2.9/1.6; 4.7GY 2.3/1.9; 4.0GY 2.5/1.7 to 6.9GY 1.9/2.1	FIRM CLAYEY SILT Major Lithology: FIRM CLAYEY SILT, very dark greenish gray to greenish black (2.3GY 2.9/1.6 to 6.9GY 1.9/2.1), homogeneous and structureless; subhorizontal bedding is indicated by slight color changes. The sediments react weakly to HCl. Patches (cm-size) of glaucony sand are present in Section 2, 5–7 cm and 67–72 cm. In Section CC the sediment is fractured in small angular pieces (less than 1 cm across). General Description: The sediment is heavily disturbed by gas expansion cracks. Note: The core became stuck in the core barrel, and may not have been removed and curated in a continuous sequence.

892E 5M NO RECOVERY