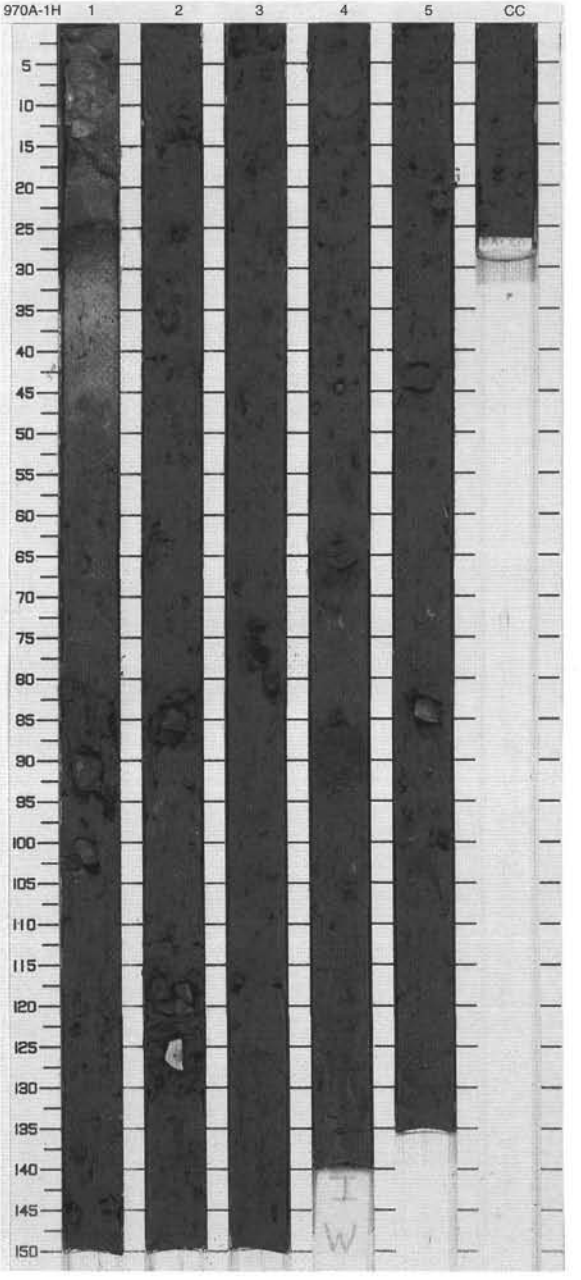
SITE 970 HOLE A CORE 1H CORED 0.0 - 7.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	late Pleistocene			S	10YR 5/4	CLAYEY NANNOFOSSIL OOZE and MATRIX-SUPPORTED BRECCIA/CONGLOMERATE Major Lithologies: The dominant lithologies in this core are from Section 1, 0–60 cm a yellowish brown (10YR 5/4) to light gray (5Y 7/1) CLAYEY NANNOFOSSIL OOZE, and from Section 1, 60 cm to CC, a dark greenish gray (5GY 4/1 to 5G 4/1) a matrix-supported MATRIX-SUPPORTED BRECCIA/CONGLOMERATE with a matrix of nannofossil silty clay. Minor Lithologies: One dark gray (5Y 4/1) SAPROPEL occurs in Section 1, 24–27 cm. The clasts within the pebbly mudstone are angular to subrounded and range in size from coarse sand grade to 5 cm. Well-lithified rock fragments include mudstone, parallel-laminated sandstone, massive sandstone, and limestone. Clasts (?) of unconsolidated sand also occur.
2		2				T		
3		3				S	5GY 4/1 To 5G 4/1	
4		4				S		
5		5				I		
6						T		
7		CC				T		
						M		



SITE 970 HOLE A CORE 2H CORED 7.6 - 10.2 mbsf

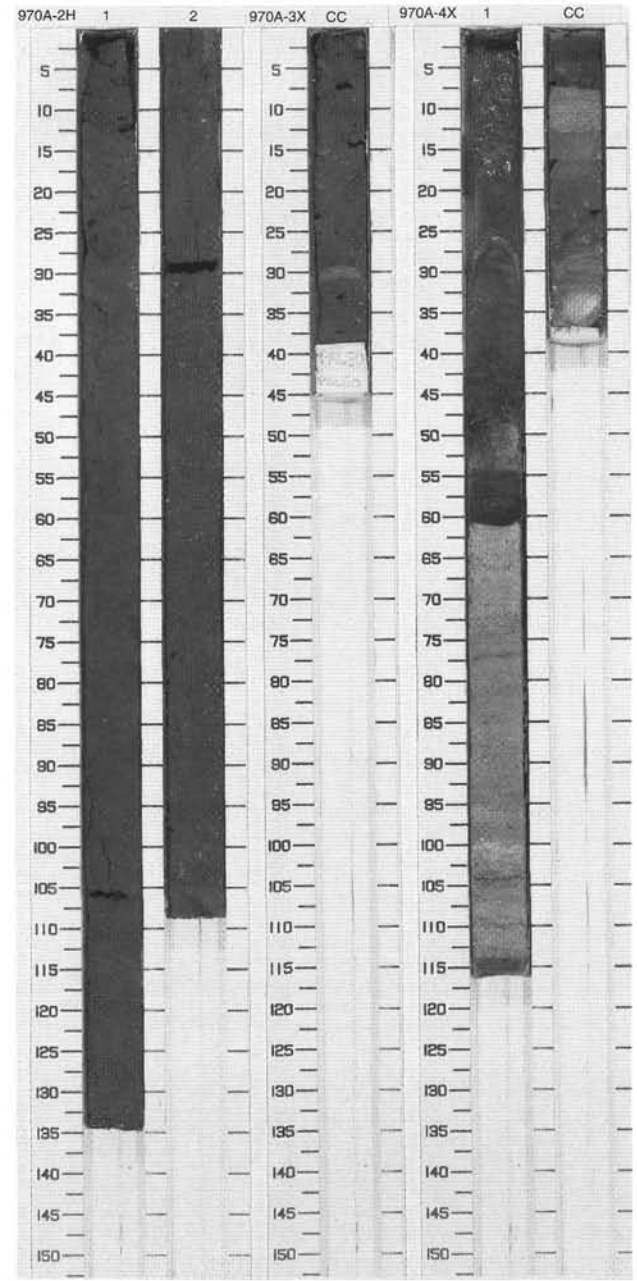
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	late Pleistocene			T D I D S M	5G 4/1	MATRIX-SUPPORTED BRECCIA/CONGLOMERATE Major Lithology: The sediment in this core is a dark greenish gray (5G 4/1) MATRIX-SUPPORTED BRECCIA/CONGLOMERATE with clasts <15 mm in diameter. General Description: This material is matrix supported with a clast to matrix ratio of approximately 1:9. The matrix is dominantly silt.
2		2						
		CC						

SITE 970 HOLE A CORE 3X CORED 10.2 - 18.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		CC	early Pleist.	P		M	5G 5/1	MATRIX-SUPPORTED BRECCIA/CONGLOMERATE Major Lithology: The sediment in this core is a dark greenish gray (5G 5/1) MATRIX-SUPPORTED BRECCIA/CONGLOMERATE with lithic and mud clasts up to 20 mm in diameter. General Description: A thin band of of greenish gray silt occurs at approximately 30 cm in this core. Sediment is slightly pyritized in some places.

SITE 970 HOLE A CORE 4X CORED 18.2 - 27.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	late Pleistocene		○○○	T S S T M	5GY 5/1 To 5Y 4/1	MATRIX-SUPPORTED BRECCIA/CONGLOMERATE Major Lithology: The sediment in this core is a greenish gray (5GY 5/1) to dark greenish gray (5Y 4/1) MATRIX-SUPPORTED BRECCIA/CONGLOMERATE with clasts <15 mm in diameter. Minor Lithologies: The interval from Section 1, 54 cm, to the Core Catcher at 8 cm contains two SAPROPELS with light olive gray (5Y 6/2) CLAYEY NANNOFOSSIL OOZE between.
		CC						



SITE 970 HOLE A CORE 5X CORED 27.8 - 37.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		CC						MATRIX-SUPPORTED BRECCIA/CONGLOMERATE

Major Lithology:
The sediment in this core is dark bluish gray (5B 4/1) MATRIX-SUPPORTED BRECCIA/CONGLOMERATE with clasts up to 31 mm in diameter.

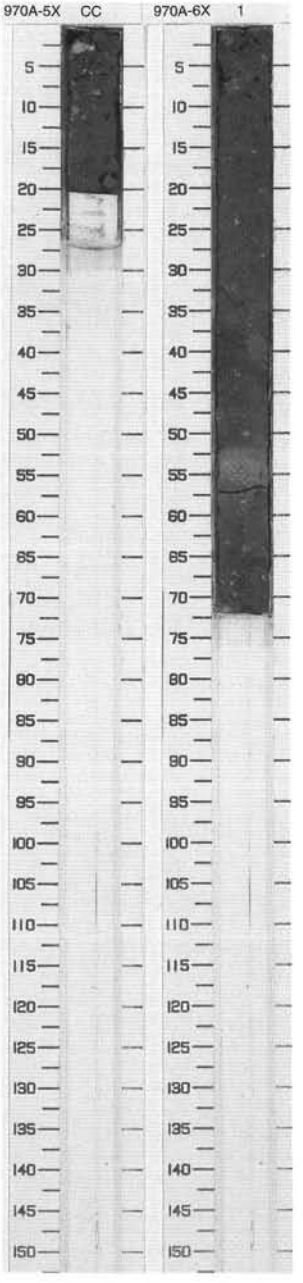
General Description:
Both matrix material and larger clasts are matrix supported, with a matrix to clast ratio of approximately 2:3. Clasts include carbonates and lithified muds with faint laminations and are subangular to subrounded.

SITE 970 HOLE A CORE 6X CORED 37.4 - 47.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1	m. Pleist.			T S S	5B 4/1	MATRIX-SUPPORTED BRECCIA/CONGLOMERATE

Major Lithology:
The sediment in this core consists of dark bluish gray (5B 4/1) MATRIX-SUPPORTED BRECCIA/CONGLOMERATE.

General Description:
Angular to subangular dark bluish gray (5B 4/1) and dark greenish gray (5GY 4/1) carbonate mudstone and mudstone clasts, ranging in size between 3 and 41 mm, are supported within a matrix composed of silty clay and clayey silt.



SITE 970 HOLE A CORE 7X CORED 47.1 - 56.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1	m. Pleist.	P	○	D D T	N4	MATRIX-SUPPORTED BRECCIA/CONGLOMERATE

Major Lithology:
The sediment in this core consists of dark gray (N4) MATRIX-SUPPORTED BRECCIA/CONGLOMERATE.

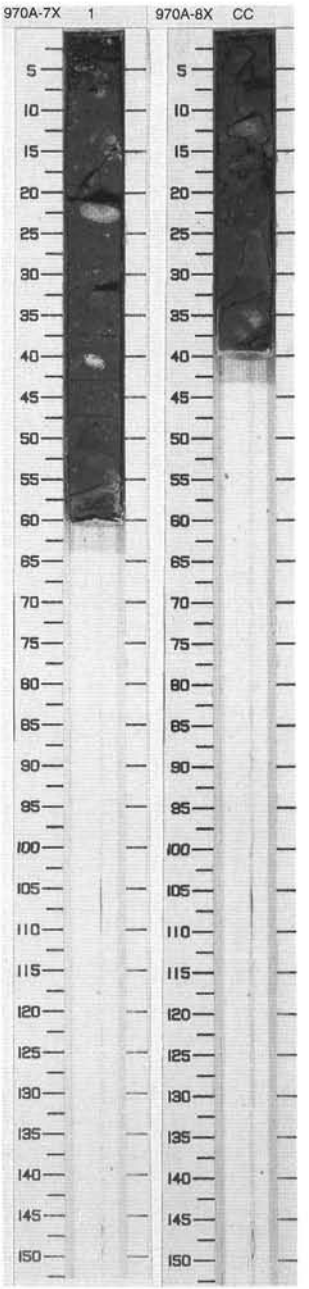
General Description:
The clasts within this core are rounded to subrounded and vary in size between 2 and 50 mm. Many clasts are composed of either mudstone or carbonate-rich mudstone, with minor amounts of pyrite and calcarenite. The matrix consists of clayey silty sand and sandy silty clay. The clast to matrix ratio is approximately 1:4.

SITE 970 HOLE A CORE 8X CORED 56.7 - 66.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		CC		P		D D	5GY 4/1	MATRIX-SUPPORTED BRECCIA/CONGLOMERATE

Major Lithology:
The sediment in this core consists of dark greenish gray (5GY 4/1) MATRIX-SUPPORTED BRECCIA/CONGLOMERATE.

General Description:
The clasts in this core are angular, and in general are <64 mm in diameter. Most are composed of fine-grained carbonate. The matrix consists of silty clay and clayey silt. The clast to matrix ratio in this core is approximately 1:1.

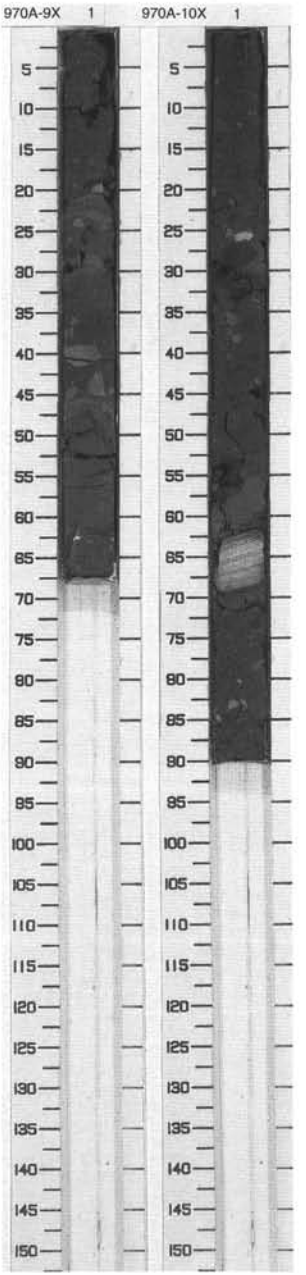


SITE 970 HOLE A CORE 9X CORED 66.3 - 76.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1	m. Pleist.			D S T D	5GY 4/1	MATRIX-SUPPORTED BRECCIA/CONGLOMERATE Major Lithology: The sediment in this core consists of dark greenish gray (5GY 4/1) MATRIX-SUPPORTED BRECCIA/CONGLOMERATE. General Description: The clasts in this core vary in shape from angular through rounded to subrounded downcore, and vary in diameter between 4 and 135 mm. Clast composition is variable; most are carbonate-rich, some are composed of nannofossil ooze and clay. The matrix is composed of silty clay and clayey silt. The clast to matrix ratio is approximately 1:2.

SITE 970 HOLE A CORE 10X CORED 76.0 - 85.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1	m. Pleist.			D T	5GY 4/1	MATRIX-SUPPORTED BRECCIA/CONGLOMERATE Major Lithology: The sediment in this consists of dark greenish gray (5GY 4/1) MATRIX-SUPPORTED BRECCIA/CONGLOMERATE. General Description: Clasts in this core are mainly rounded to subangular and range in diameter between 7 and 70 mm. Composition of individual clasts is variable and includes mudstone, sandstone, and carbonate-rich mudstone. The matrix consists of silty clay. The clast to matrix ratio is approximately 1:2.



SITE 970 HOLE A CORE 11X CORED 85.7 - 95.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		CC	Pleist. m.	P		T S D	5GY 4/1	MATRIX-SUPPORTED BRECCIA/CONGLOMERATE and CALCAREOUS CLAYEY SILT

Major Lithologies:
The upper part of this core consists of dark greenish-gray (5GY 4/1) MATRIX-SUPPORTED BRECCIA/CONGLOMERATE. The lower 20 cm consists of well-lithified green (5GY 4/1) CALCAREOUS CLAYEY SILT.

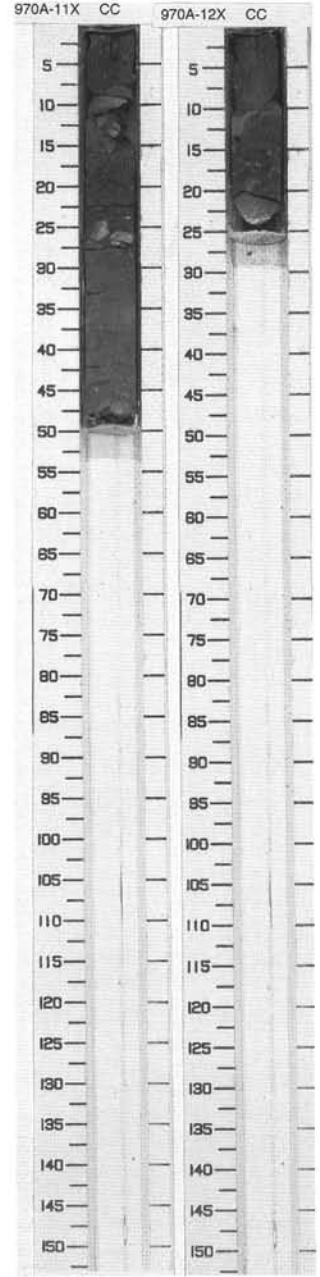
General Description:
Clasts in this core are subangular to subrounded ranging between 4 and 70 mm. Composition of the inividual clasts is variable and includes calcarenite, mudstone, and laminated sandstone. The matrix consists of silty clay. The clast to matrix ratio is approximately 3:7.

SITE 970 HOLE A CORE 12X CORED 95.4 - 105.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		CC						MATRIX-SUPPORTED BRECCIA/CONGLOMERATE

Major Lithology:
The sediment in this core consists of dark gray to dark blue gray (5Y 4/1 to 5B 4/1) MATRIX-SUPPORTED BRECCIA/CONGLOMERATE.

General Description:
Clasts in this core are angular to subrounded and generally <50 mm in diameter. Clasts composition includes calcarenite and calcareous mudstone. The matrix is dominantly silty clay. The clast to matrix ratio is approximately 1:4.

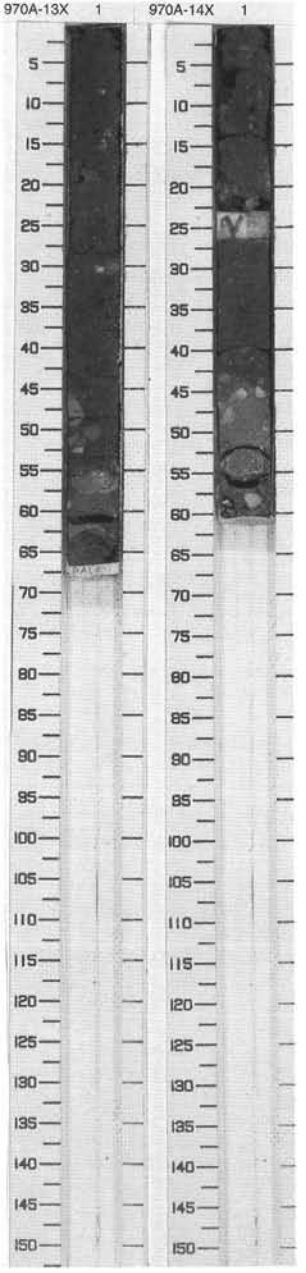


SITE 970 HOLE A CORE 13X CORED 105.1 - 114.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1	early Pleist.			D M	N4	MATRIX-SUPPORTED BRECCIA/CONGLOMERATE Major Lithology: The sediment in this core consists of dark gray (N4) MATRIX-SUPPORTED BRECCIA/CONGLOMERATE. General Description: The clasts in this core are subrounded to subangular and are <58 mm in diameter. The composition of the clasts is mixed and includes calcarenite, mudstone, siltstone, and silty claystone. Small pyrite grains are found throughout. The matrix is silty clay. The clast to matrix ratio is approximately 3:7.

SITE 970 HOLE A CORE 14X CORED 114.8 - 124.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1	late Pleist.	P P		T S	5GY 4/1	MATRIX-SUPPORTED BRECCIA/CONGLOMERATE Major Lithology: The sediment in this core consists of dark greenish-gray (5GY 4/1) MATRIX-SUPPORTED BRECCIA/CONGLOMERATE. General Description: The clasts in this core include laminated and fractured calcarenite and calcareous mudstone. They are subrounded to subangular and vary in size from 4 to 65 mm. The matrix is dominantly silty or sandy clay. The clast to matrix ratio is approximately 3:7.

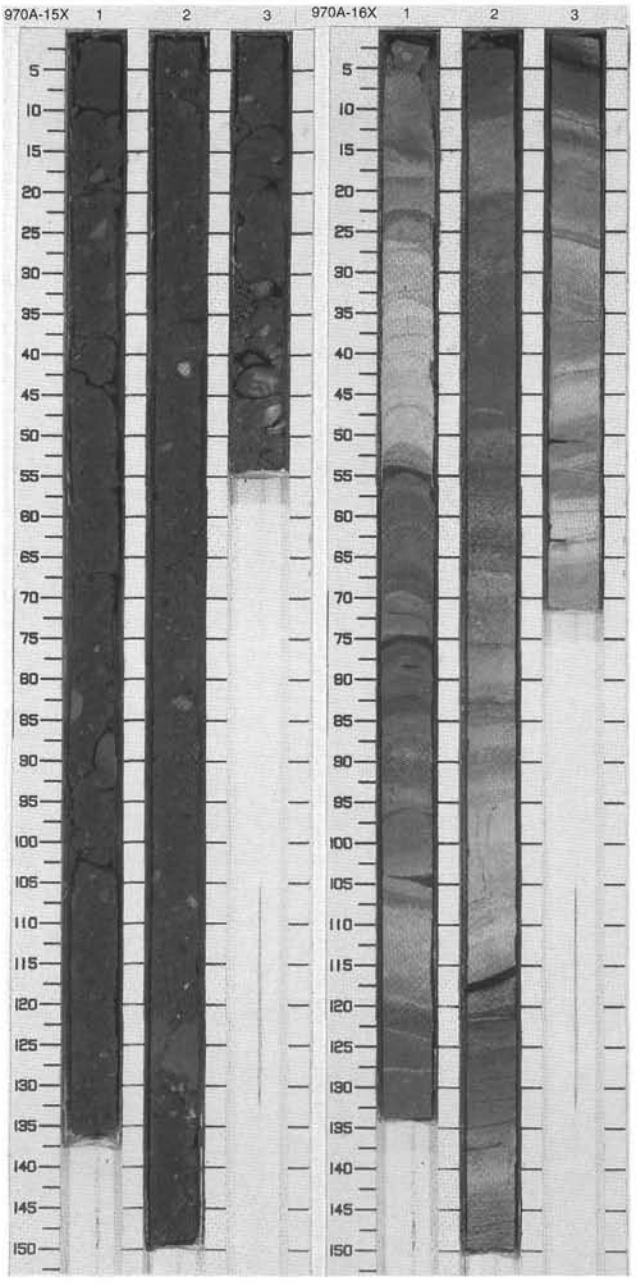


SITE 970 HOLE A CORE 15X CORED 124.4 - 134.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1 2 3		1 2 3 CC	middle Pleistocene–late Pleistocene			D T T M	5GY 4/1	MATRIX-SUPPORTED BRECCIA/CONGLOMERATE Major Lithology: The sediment in this core consists of dark greenish-gray (5GY 4/1) MATRIX-SUPPORTED BRECCIA/CONGLOMERATE. General Description: The clasts in this core include angular to subangular calcareous siltstone, calcareous mudstone, calcite, and calcarenite and are generally <84 mm in diameter. Small pyrite nodules are found throughout. The matrix is dominantly silty clay. The clast to matrix ratio is approximately 3:7.

SITE 970 HOLE A CORE 16X CORED 134.0 - 143.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1 2 3		1 2 3	early Pleistocene			S I S P S M	5GY 5/1 To 5G 6/1	NANNOFOSSIL OOZE Major Lithology: The sediment in this core is dominantly greenish-gray (5GY 5/1 to 5G 6/1) NANNOFOSSIL OOZE. Minor Lithologies: This core contains five SAPROPEL horizons varying in thickness between 1 and 4 cm. Both basal and upper contacts of these layers are sharp and some contain internal mm-scale laminations. General Description: The sediment is color banded on a centimeter to decimeter scale with slight to heavy bioturbation in places. Small dislocations between laminations can be seen.

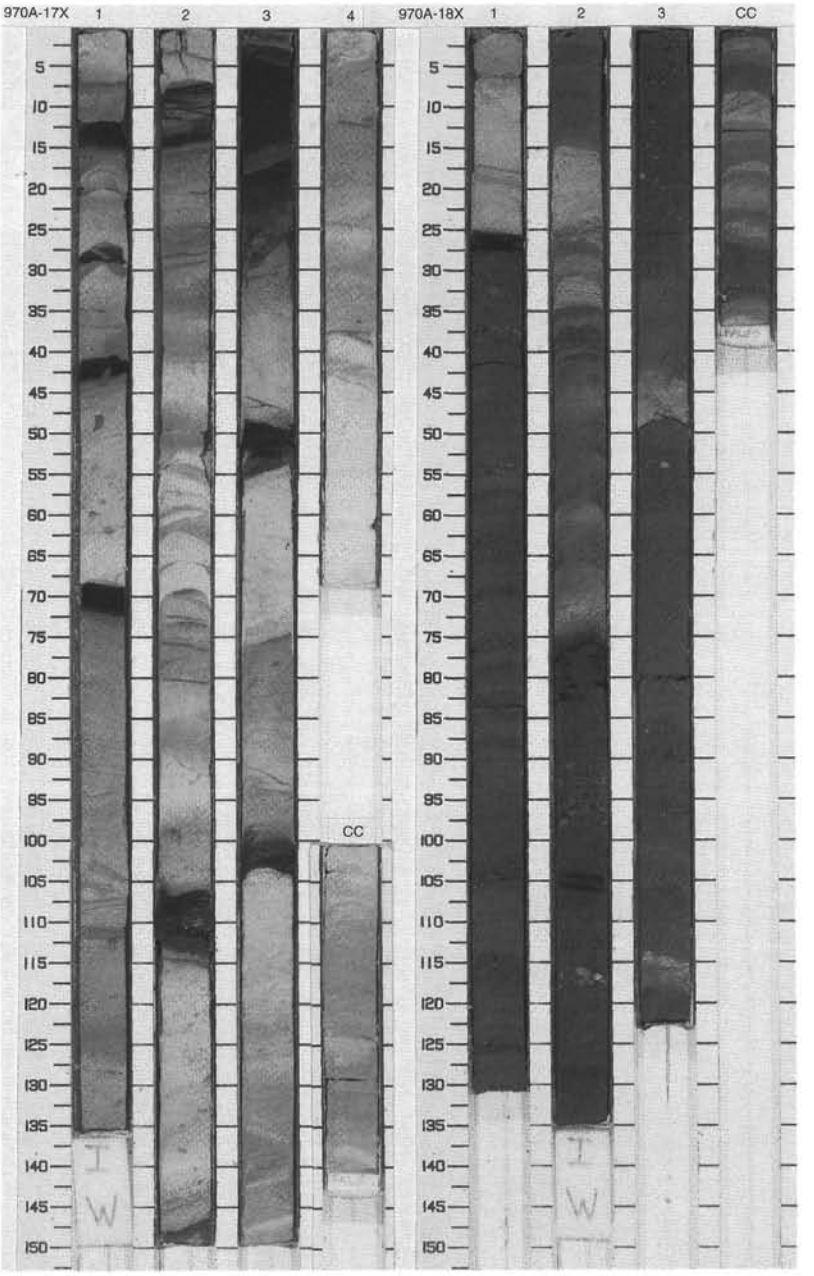


SITE 970 HOLE A CORE 17X CORED 143.6 - 153.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–5		1–4	early Pleistocene	P		S, I, S, M	5G 7/1 To 5Y 7/1	NANNOFOSSIL OOZE Major Lithology: The sediment in this core is light greenish gray to light gray (5G 7/1–5Y 7/1) NANNOFOSSIL OOZE. Minor Lithologies: Nine thin SAPROPELS occur in this core. In general they are between 3 and 5 cm thick although one 30-cm layer occurs at the top of Section 3. Upper and lower contacts are usually sharp, and most are bioturbated at their tops. General Description: The sediments are heavily bioturbated *and color banded on a decimeter to* meter scale. A number of microfaults are developed, particularly toward the bottom of the core where pyrite flecks and blebs are very common.

SITE 970 HOLE A CORE 18X CORED 153.2 - 162.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–4		1–3, CC	early Pleistocene	P		S, I, S, M	5GY 4/1 To 5G 4/1	FORAMINIFER NANNOFOSSIL OOZE and POLYMICTIC GRAVEL Major Lithologies: The sediments in this core consist of a thin unit of light greenish gray (5G 7/1), bioturbated FORAMINIFER NANNOFOSSIL OOZE overlying POLYMICTIC GRAVEL. This material is dark greenish gray to greenish gray (5GY 4/1–5G 4/1), and occurs in a series of relatively thin (10-to 20-cm–thick) upward-fining beds which have gravel up to 1 cm at the base grading normally to sand and silty clay. The composition of the gravel encompasses a variety of lithologies, including mudstone, limestone, and fine-grained sandstone. Minor Lithologies: Two SAPROPELS of less than 5 cm thickness occur in this core. General Description: Finely divided pyrite pervades the entire core, particularly in the interbedded materials.

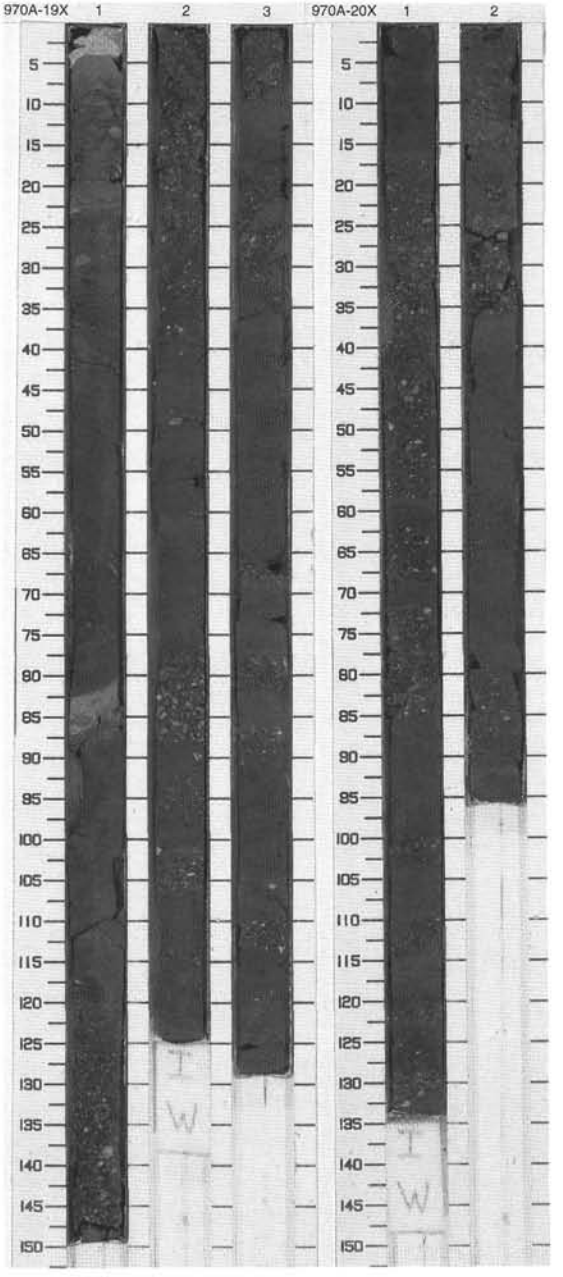


SITE 970 HOLE A CORE 19X CORED 162.8 - 172.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–4		1, 2, 3	early Pleistocene			S, I, S, M	5G 4/1	POLYMICTIC GRAVEL Major Lithology: The sediment in this core is POLYMICTIC GRAVEL. The material is dark greenish gray (5G 4/1) and occurs as a series of relatively thin (10 to 20 cm) upward-fining beds which have gravel at the base and grade normally to sand and silty clay. The composition of the gravel encompasses a variety of lithologies, including mudstone, limestone, and fine-grained sandstone. Minor Lithologies: Finely divided pyrite is pervasive throughout the core.

SITE 970 HOLE A CORE 20X CORED 172.5 - 182.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–2		1, 2	early Pleistocene			I, M	5G 4/1	POLYMICTIC GRAVEL Major Lithology: The sediment in this core is an alternating sequence of interbedded GRAVEL, SAND, and MUD wherein some of the fine fraction is NANNOFOSSIL CLAY. The material is dark greenish gray (5G 4/1) and occurs as a series of relatively thin (10 to 20 cm thick), upward-fining beds which have gravel at the base, grading normally to sand and mud. The composition of the gravel encompasses a variety of lithologies, including mudstones, limestone, and fine-grained sandstone. General Description: Pyrite is pervasive throughout the core.

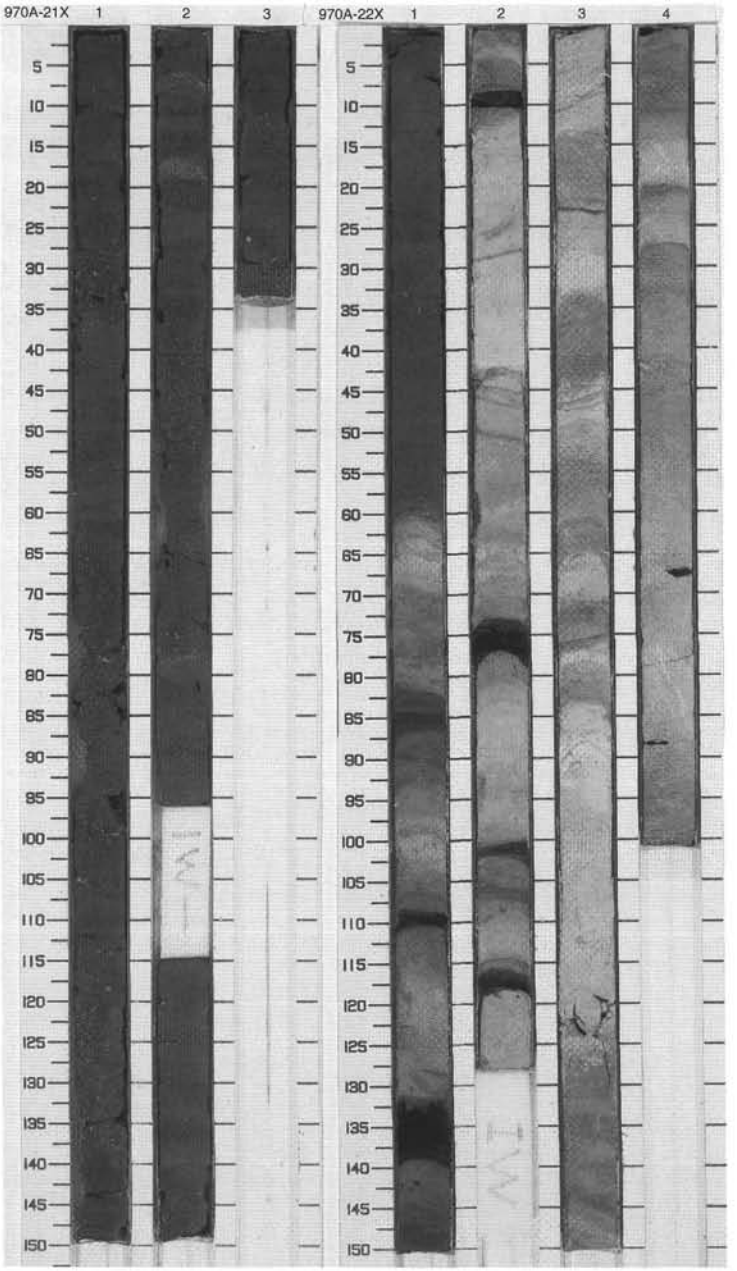


SITE 970 HOLE A CORE 21X CORED 182.1 - 191.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1 2 3		1 2 3	early Pleistocene	P P P P P		S I M	5G 4/1	POLYMICTIC GRAVEL Major Lithology: The sediment in this core is POLYMICTIC GRAVEL. The material is dark greenish gray at the base and grades normally to sand and mud. The composition of the gravel (5G 4/1) occurs as a series of relatively thin (10 to 20 cm), upward-fining beds which have gravel which encompasses a variety of lithologies, including mudstone, limestone, and fine-grained sandstone. General Description: Finely divided pyrite pervades the entire core.

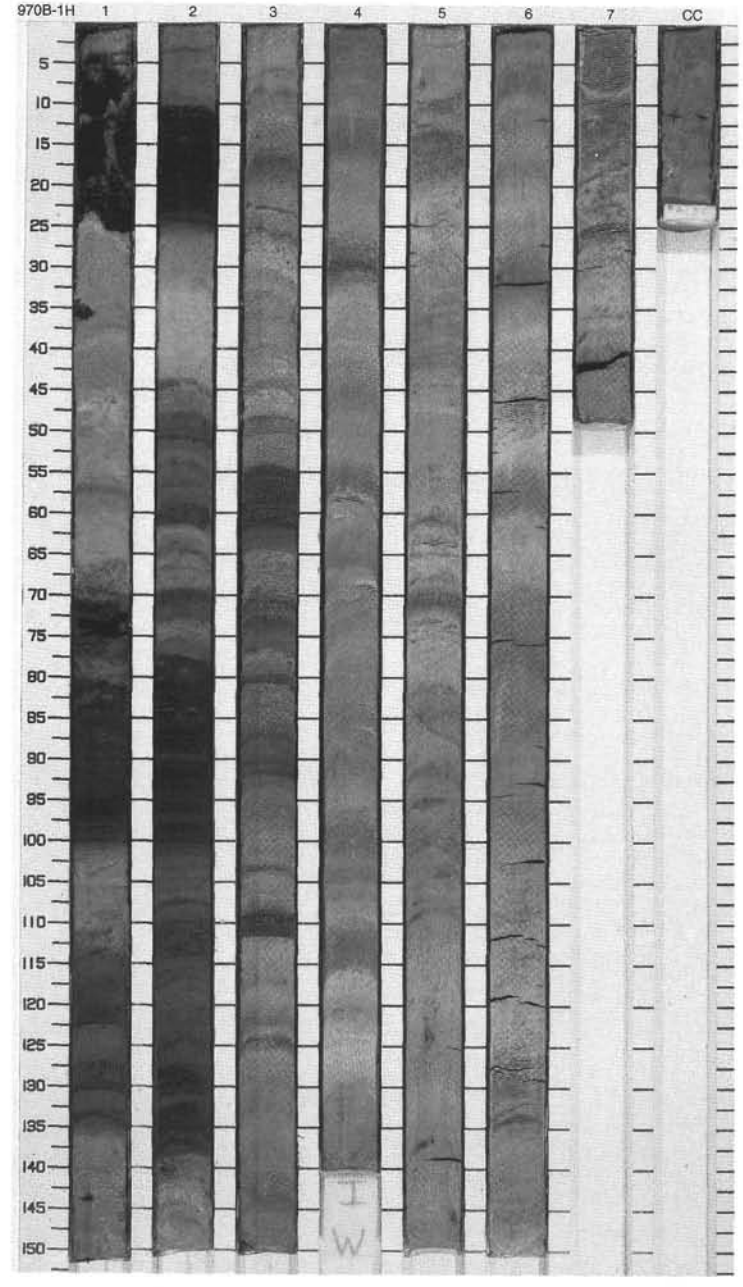
SITE 970 HOLE A CORE 22X CORED 191.7 - 201.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1 2 3 4 5		1 2 3 4	late Pliocene	P P P P P P		S S I S M	5G 4/1 5G 6/1 To 5Y 7/1	POLYMICTIC GRAVEL and NANNOFOSSIL CLAY Major Lithologies: The sediment in Section 1, 0–60 cm, is POLYMICTIC GRAVEL. This material is dark greenish gray (5G 4/1) and occurs as a series of relatively thin (10 to 20 cm), upward-fining beds which have gravel at the base, grading normally to sand and mud. The composition of the gravel encompasses a variety of lithologies, including mudstone, limestone, and fine-grained sandstone. This unit overlies a light greenish gray to gray (5G 6/1 to 5Y 7/1) bioturbated NANNOFOSSIL CLAY which comprises the remainder of the core. In Section 4 foraminifers are subdominant in the sediment. Minor Lithologies: Six SAPROPELS which generally have sharp bases and bioturbated tops occur in the nannofossil clay of the lower unit. These have undergone a significant amount of maturation, and in some an incipient cleat has developed. General Description: Pyrite is pervasive in the upper unit. The lower unit is cut by small faults.



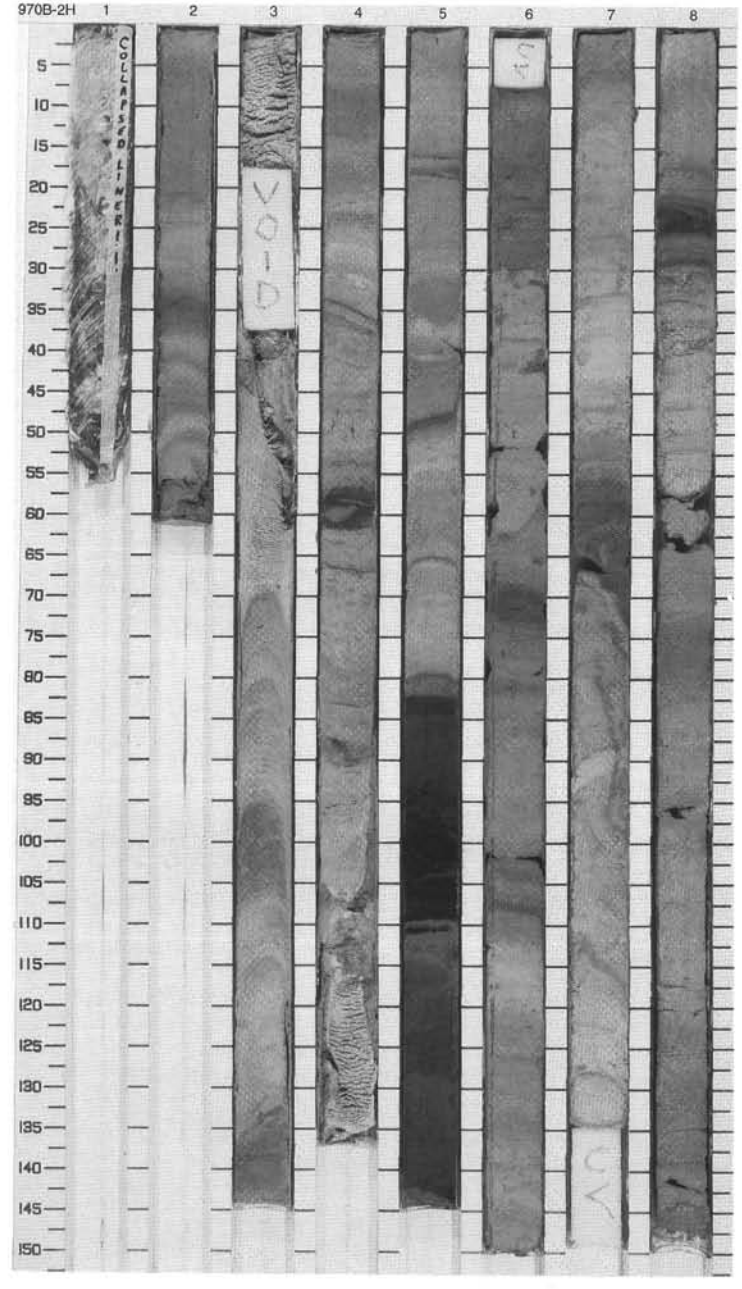
SITE 970 HOLE B CORE 1H CORED 0.0 - 9.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	late Pleistocene	A		S	10YR 6/3 To N7	NANNOFOSSIL OOZE Major Lithology: The sediment in this core is light brown to light gray (10YR 6/3 to N7) NANNOFOSSIL OOZE. Minor Lithologies: Five SAPROPELS occur in this core. They range in thickness from 4 to 30 cm, and are all bioturbated. Sapropel intervals from Section 1, 90 to 100 cm, and Section 2, 85 to 100 cm are laminated. A 10-cm-thick, very dark gray (10YR 3/1) ASH occurs in Section 1, 10 cm. Numerous thin (mm-scale) SILT horizons occur throughout the core.
						S		
2		2						
						S		
3		3						
						S		
4		4						
5						I		
		5				S		
6		6						
7		7						
		CC						



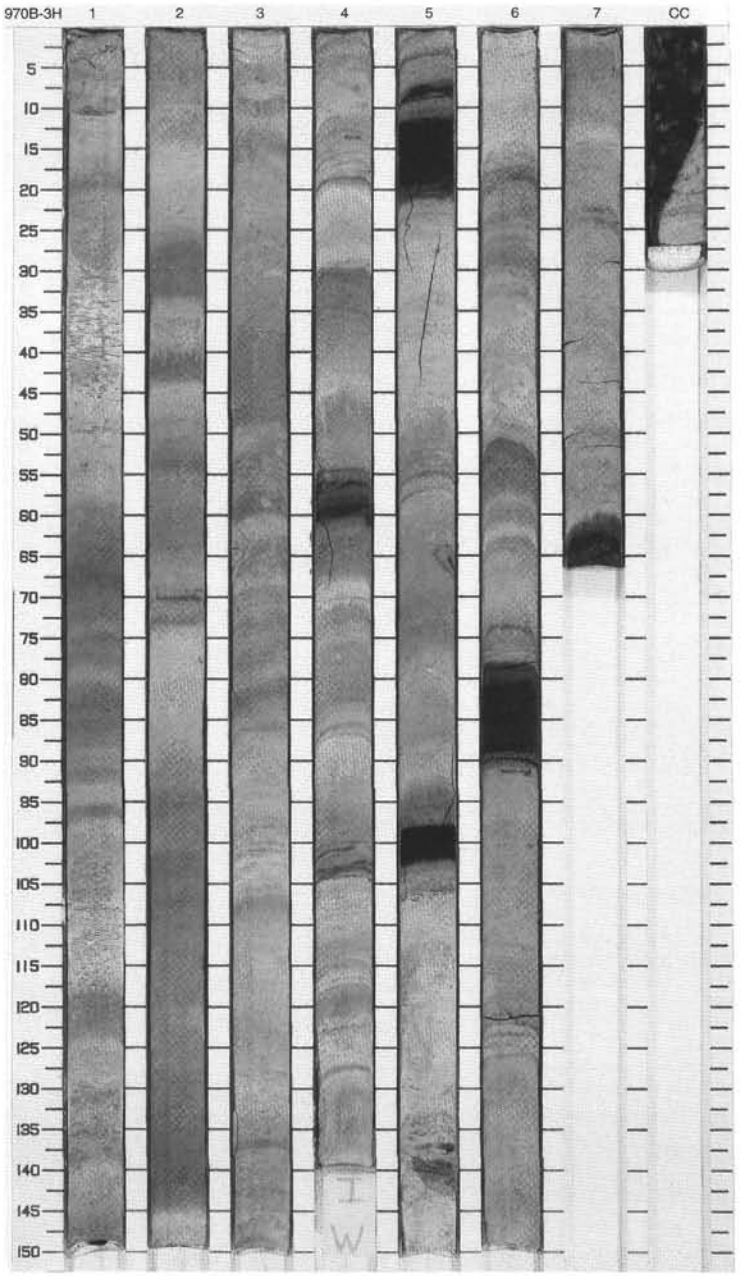
SITE 970 HOLE B CORE 2H CORED 9.5 - 19.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–8		P		M	5Y 5/1 To 2.5Y 5/2	NANNOFOSSIL OOZE Major Lithology: The sediment in this core is gray (5Y 5/1) to grayish brown (2.5Y 5/2) NANNOFOSSIL OOZE. Minor Lithologies: Five olive gray (5Y 4/2) to very dark gray (5Y 3/1) SAPROPELS ranging in thickness from 3 to 29 cm occur in this core. General Description: This sediment is color banded throughout. Foraminifer content is variable with concentrations commonly found filling large burrows. The sediment in this core is highly disturbed; an impacted Section 1 consists of core liner.



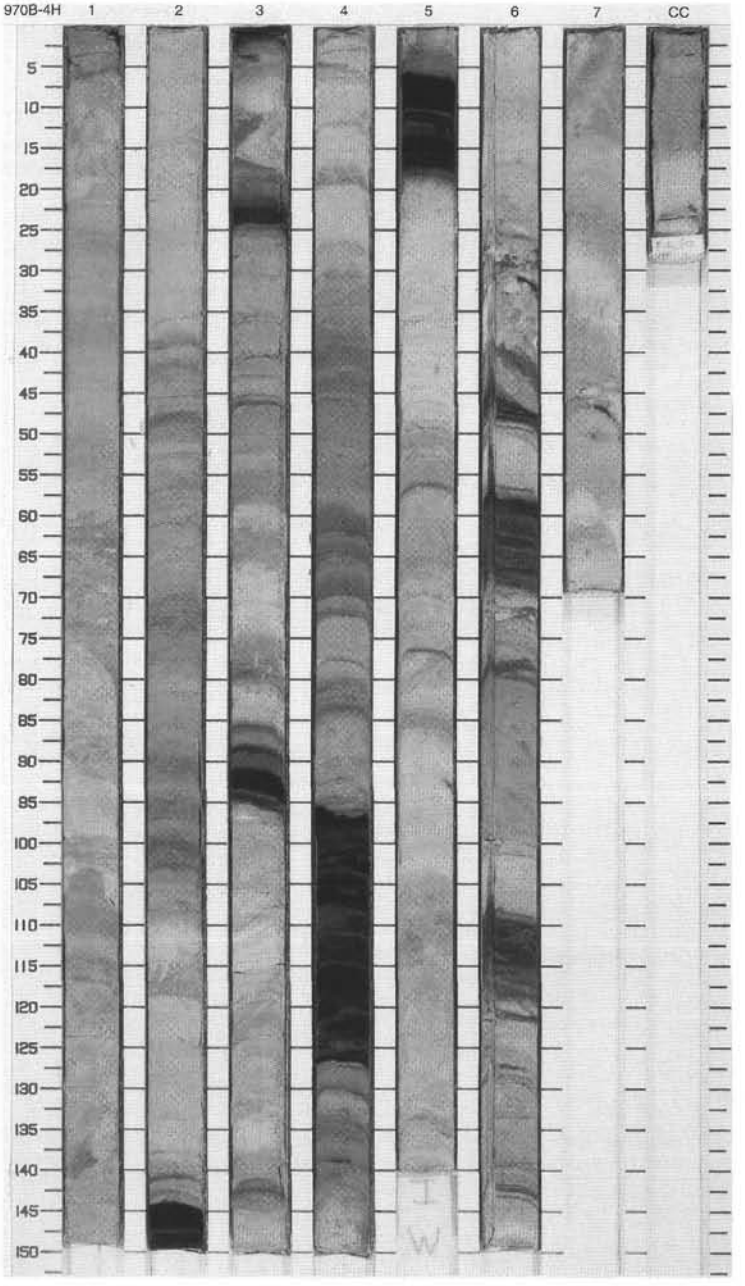
SITE 970 HOLE B CORE 3H CORED 19.0 - 28.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–7, CC	early Pleistocene			I, M	5Y 5/4 To 10YR 7/3	NANNOFOSSIL OOZE and NANNOFOSSIL CLAY Major Lithologies: The sediment in this core is olive (5Y 5/4) to very light brown (10YR 7/3) NANNOFOSSIL OOZE and NANNOFOSSIL CLAY. Minor Lithologies: Six dark gray (5Y 3/1) SAPROPELS occur in the core. These range in thickness from 1 to 6 cm and are generally intact and unbioturbated.



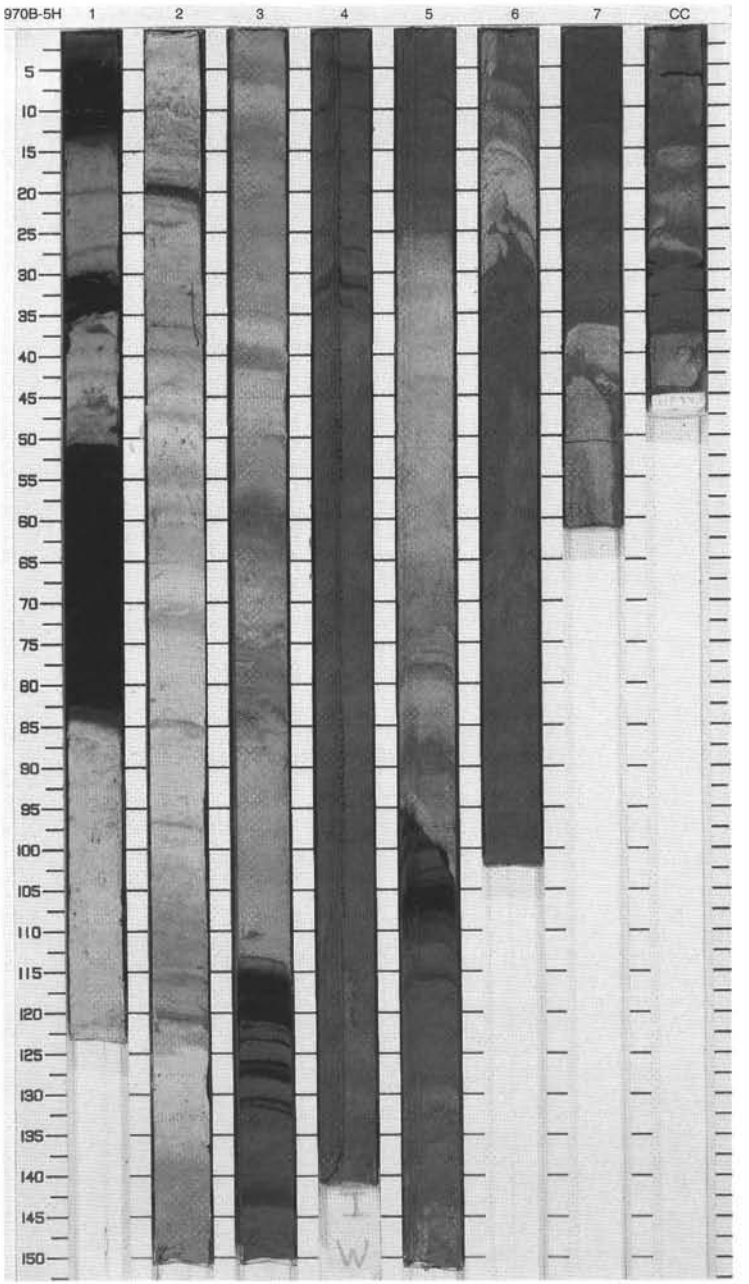
SITE 970 HOLE B CORE 4H CORED 28.5 - 38.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	early Pleistocene			S	2.5YR 6/2 To N6	NANNOFOSSIL OOZE Major Lithology: The sediment in this core is a grayish brown (2.5YR 5/2) to gray (N6) NANNOFOSSIL OOZE. Minor Lithologies: Eight black (5Y 2.5/1) to dark olive gray (6Y 3/2) SAPROPELS ranging in thickness from 2 to 31 cm occur in this core. These layers commonly exhibit minor bioturbation at the top and/or base. Several thin SILT beds occur in Section 4, 50–150 cm. General Description: The sediment in this core shows color banding on a centimeter to decimeter scale due to compositional differences (e.g., silt beds) as well as diagenetic features. Foraminifer content is variable; foraminifers commonly fill large burrows. Bioturbation ranges from slight to intense in this core.
2		2				S		
3		3						
4		4				S		
5		5				S		
6		6				I S		
7		7						
8		CC				M		



SITE 970 HOLE B CORE 5H CORED 38.0 - 47.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–10		1–7, CC	early Pleistocene					NANNOFOSSIL OOZE and NANNOFOSSIL CLAY Major Lithologies: The sediment in this core alternates between light blue-gray (5B 7/1) to light brownish gray (2.5Y 6/2) NANNOFOSSIL OOZE and dark greenish gray (5G 4/1) NANNOFOSSIL CLAY. Minor Lithologies: Six black (5Y 2.5/1) to olive gray (5Y 4/2) SAPROPELS ranging in thickness from 5 to 33 cm occur in this core. Those sapropels in Sections 3 and 5 occur at the top of the nannofossil clay sequences and are thinly interbedded with this material. Several thin, graded SILT layers up to 1.5 cm thick occur in this core. These are concentrated in Section 3, 142 cm, Section 4, 40 cm, Section 5, 0–30 cm, Section 6, 79–100, and Section 7. General Description: The sediment in this core is color banded at a centimeter to decimeter scale due to both compositional and diagenetic features. Bioturbation is slight to moderate throughout.
						S	5B 7/1 To 2.5Y 6/2	
						D S D		
						S	5G 4/1	
						I		
						D	2.5Y 6/2	
						S S	5G 4/1 To 5Y 6/2	
						D		
						S M		

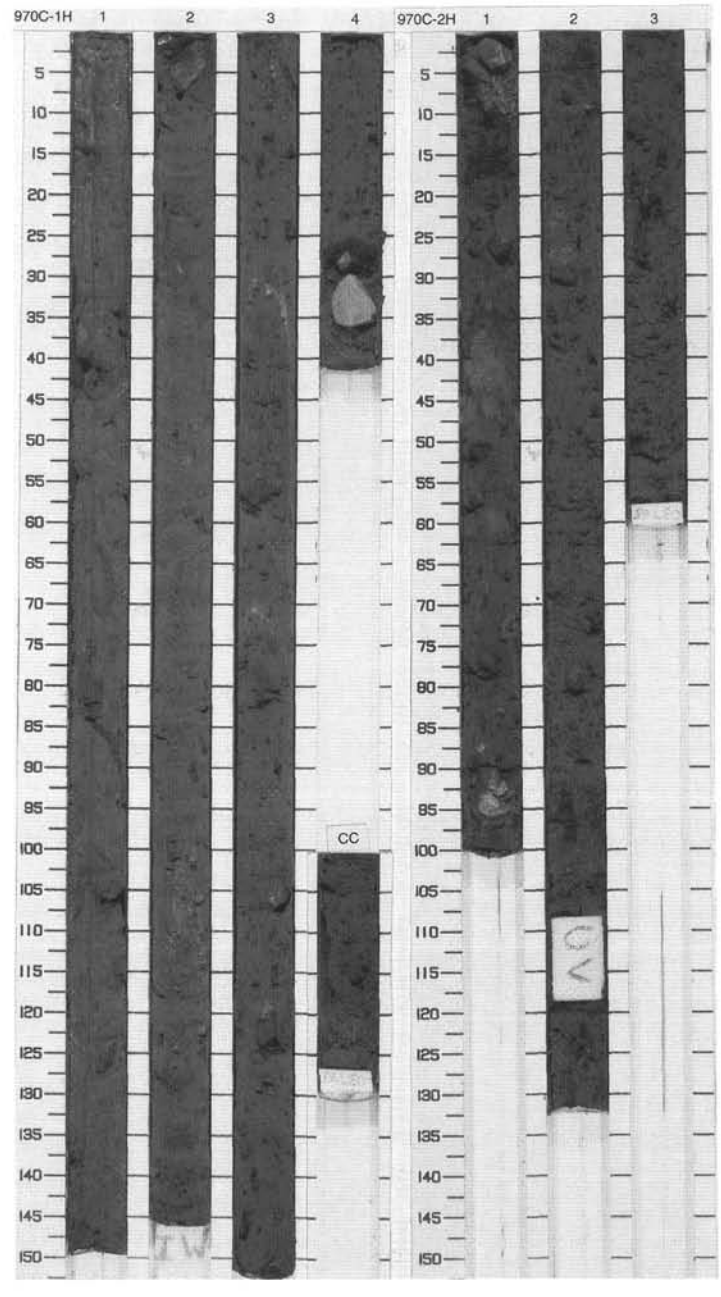


SITE 970 HOLE C CORE 1H CORED 0.0 - 5.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–5		1, 2, 3, 4, CC	Pleistocene			S, T, T, S, I, T, M	5GY 5/1	MATRIX-SUPPORTED CLAST-RICH DEBRIS FROM DEPOSIT Major Lithology: The sediment in this core is MATRIX-SUPPORTED CLAST-RICH DEBRIS FROM DEPOSIT, comprising a chaotic mixture of greenish gray (5GY 5/1) sand, silt, and clay matrix with scattered gravel fragments up to 55 mm. The gravel is generally subrounded and the composition encompasses a range of sandstones, siltstones, and claystones. General Description: The sediment is matrix supported with a matrix to clast ratio of 1:10.

SITE 970 HOLE C CORE 2H CORED 5.2 - 8.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–3	Void	1, 2, 3	Pleistocene			S, S, I	5GY 6/1	MATRIX-SUPPORTED CLAST-RICH DEBRIS FROM DEPOSIT Major Lithology: The sediment in this core is MATRIX-SUPPORTED CLAST-RICH DEBRIS FROM DEPOSIT, comprising a chaotic mixture of greenish gray (5GY 6/1) sand, silt, and clay matrix with scattered gravel fragments up to 40 mm. The gravel is generally angular to subrounded, and the composition encompasses a range of sandstones, siltstones, and claystones. General Description: The material is matrix supported with a clast to matrix ratio of 1:5.

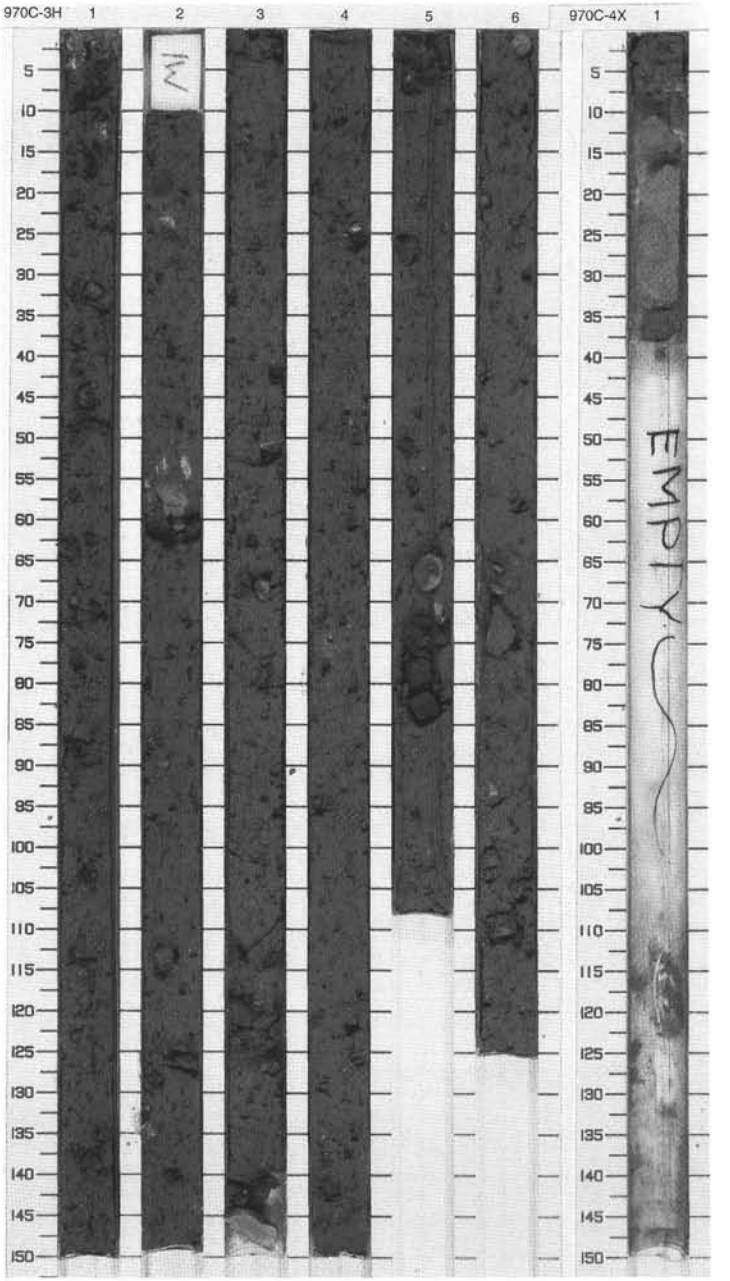


SITE 970 HOLE C CORE 3H CORED 8.2 - 16.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–8		1–6	Pleistocene			S T T S I S T T T S S	5GY 5/1	MATRIX-SUPPORTED CLAST-RICH DEBRIS FROM DEPOSIT Major Lithology: The sediment in this core is MATRIX-SUPPORTED CLAST-RICH DEBRIS FROM DEPOSIT, comprising a chaotic mixture of greenish gray (5GY 5/1) sand, silt, and clay matrix with scattered gravel fragments up to 120 mm. The gravel is generally angular to subrounded, and the composition encompasses a range of sandstones, siltstones, and claystones. General Description: The material is matrix supported with a matrix to clast ratio of 5:1.

SITE 970 HOLE C CORE 4X CORED 16.5 - 26.0 mbsf

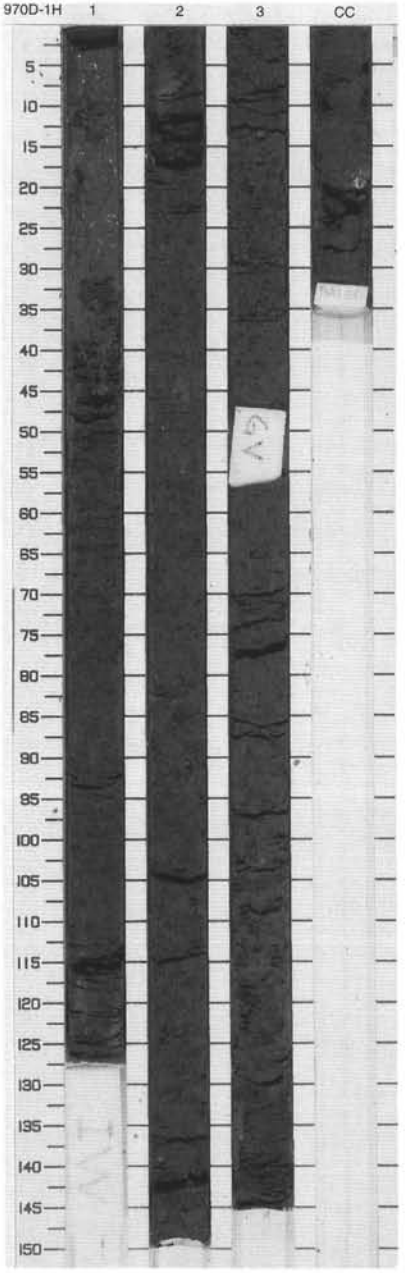
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1	Pleist.			T	5GY 5/1	MATRIX-SUPPORTED CLAST-RICH DEBRIS FROM DEPOSIT Major Lithology: The sediment in this core is MATRIX-SUPPORTED CLAST-RICH DEBRIS FROM DEPOSIT comprising several pieces of medium grained, well sorted sandstone, in a greenish-gray (5GY 5/1) sand, silt, and clay matrix. Clasts <10 mm.



970C 5X Entire core given to paleontologists.

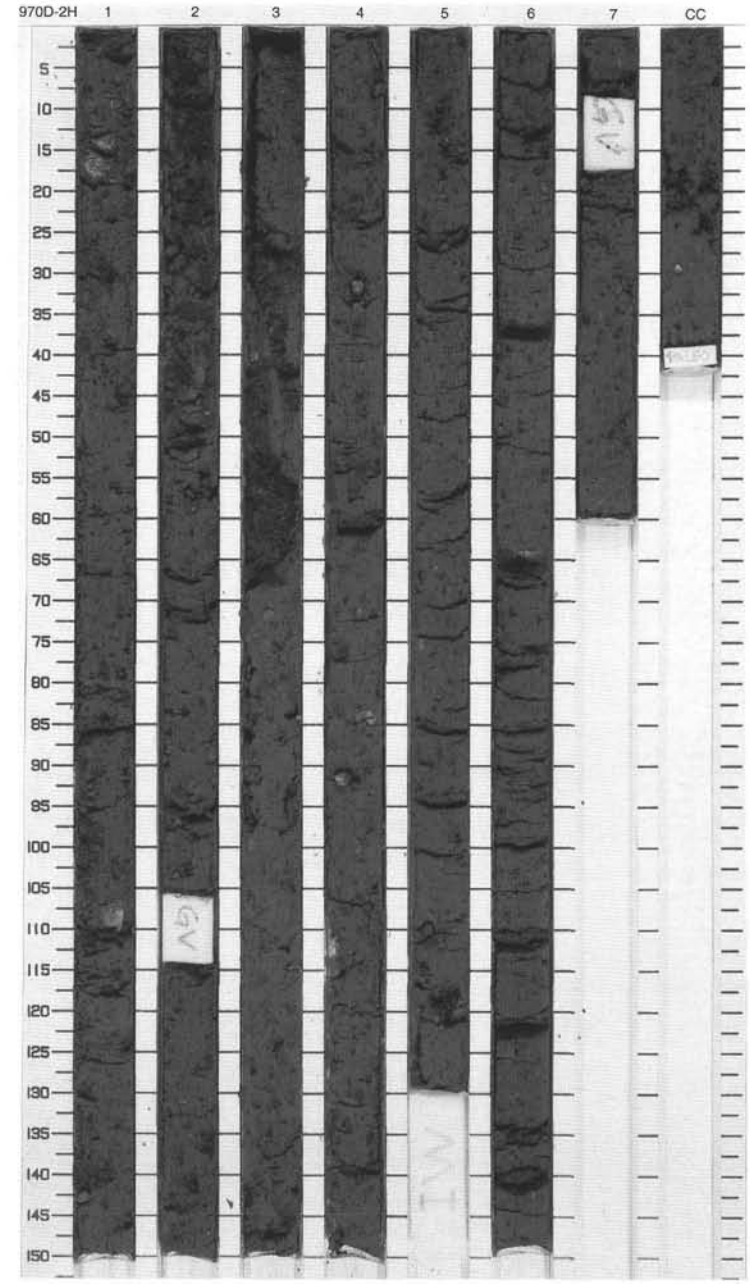
SITE 970 HOLE D CORE 1H CORED 0.0 - 4.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1 2 3 4		1 2 3 CC	Pleistocene		○○○	I S M S	5GY 4/1	MATRIX-SUPPORTED CLAST-RICH DEBRIS FROM DEPOSITS Major Lithology: The sediment in this core is MATRIX-SUPPORTED CLAST-RICH DEBRIS FROM DEPOSITS comprising a chaotic mixture of greenish gray (5GY 4/1) sand, silt, and clay matrix with scattered gravel fragments up to 50 mm. The gravel is generally angular to subrounded and the composition encompasses a range of sandstones, siltstones, and claystones. General Description: The clast to matrix ratio of this material varies from 4:6 at the top of the core to 3:7 in Section 3. Several small voids in the core are due to gas expansion.



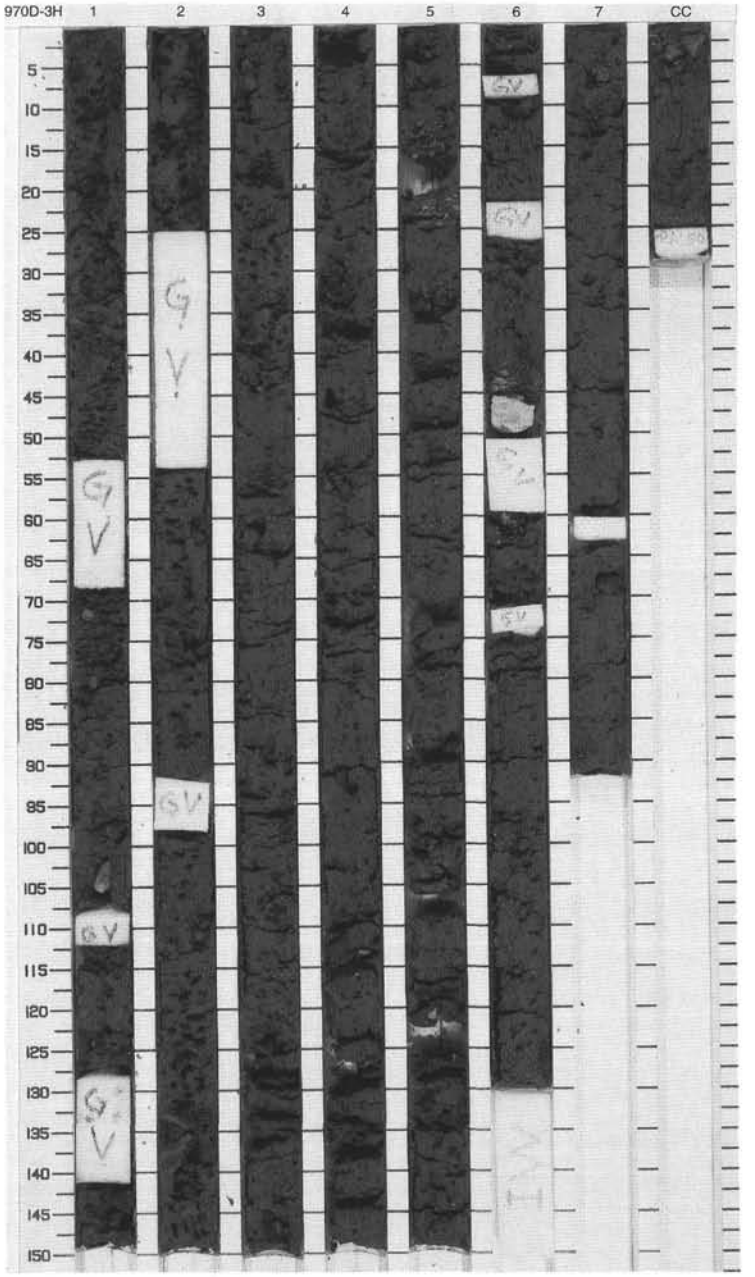
SITE 970 HOLE D CORE 2H CORED 4.8 - 14.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–10		1, 2, 3, 4, 5, 6, 7, CC	Pleistocene			S, I, M	5GY 4/1	MATRIX-SUPPORTED CLAST-RICH DEBRIS FROM DEPOSITS Major Lithology: The sediment in this core is MATRIX-SUPPORTED CLAST-RICH DEBRIS FROM DEPOSITS, comprising a chaotic mixture of greenish gray (5GY 4/1) sand, silt, and clay matrix with scattered gravel fragments up to 50 mm. The fine fraction comprises nannofossil clay. The gravel is generally subrounded and the composition encompasses a range of sandstones, siltstones, and claystones. General Description: The clast to matrix ratio of this material ranges from 1:4 in Section 1 to 1:10 in Sections 5 and 6. Several voids up to 10 cm are caused by gas expansion.



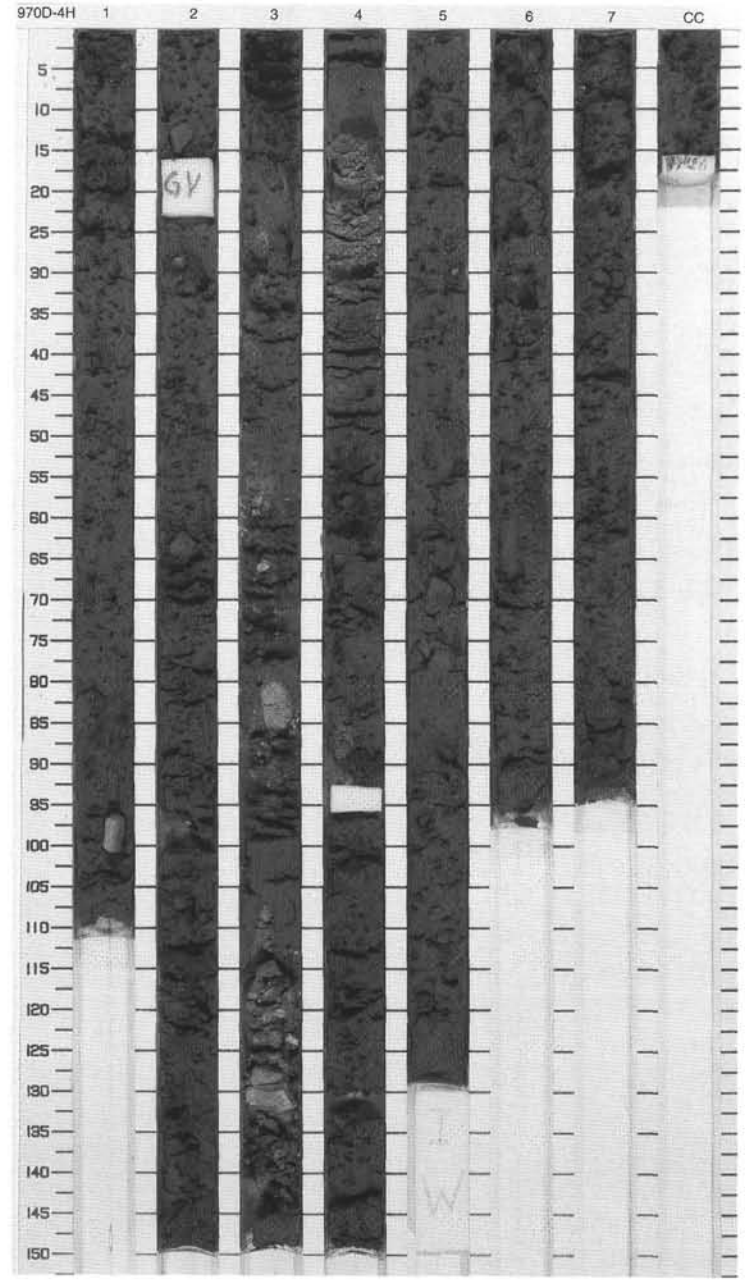
SITE 970 HOLE D CORE 3H CORED 14.3 - 23.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	Void	1	Pleistocene				5BG 5/1	MATRIX-SUPPORTED CLAST-RICH DEBRIS FROM DEPOSITS Major Lithology: The sediment in this core is MATRIX-SUPPORTED CLAST-RICH DEBRIS FROM DEPOSITS, comprising a chaotic mixture of greenish gray (BG 5/1) sand, silt, and clay matrix with scattered gravel fragments up to 50 mm. The fine fraction comprises nannofossil clay. The gravel is generally subrounded and the composition encompasses a range of sandstones, siltstones, and claystones. General Description: The ratio of clasts to matrix in this core is 1:20. Numerous voids in the core ranging from 1 to 30 cm are due to gas expansion.
	Void							
2	Void	2						
3		3						
4		4						
5		5						
6		6						
7		7				I		
8		CC				M		



SITE 970 HOLE D CORE 4H CORED 23.8 - 33.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	Pleistocene			S	5GY 5/1	MATRIX-SUPPORTED CLAST-RICH DEBRIS FROM DEPOSITS Major Lithology: The sediment in this core is MATRIX-SUPPORTED CLAST-RICH DEBRIS FROM DEPOSITS, comprising a chaotic mixture of greenish gray (5GY 5/1) sand, silt, and clay matrix with scattered gravel fragments up to 180 mm. The gravel is generally angular to subrounded and the composition encompasses a range of sandstones, siltstones, and claystones. General Description: The clast to matrix ratio is approximately 1:10 throughout the core. Numerous small voids are due to gas expansion.
		2						
		3						
		4						
		5				I		
		6						
		7						
		CC				M		



SITE 970 HOLE D CORE 5H CORED 33.3 - 42.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–10		1–7, CC	Pleistocene			I, M	5GY 5/1	MATRIX-SUPPORTED CLAST-RICH DEBRIS FROM DEPOSITS Major Lithology: The sediment in this core is MATRIX-SUPPORTED CLAST-RICH DEBRIS FROM DEPOSITS, comprising a chaotic mixture of greenish gray (5GY 5/1) sand, silt, and clay matrix with scattered gravel fragments up to 60 mm. The gravel is generally angular to subrounded and the composition encompasses a range of sandstones, siltstones, and claystones. General Description: The clast to matrix ratio in this material ranges from1:4 at the top of the core to 1:10 in Sections 4 and 5. Several small voids in the core are due to gas expansion.