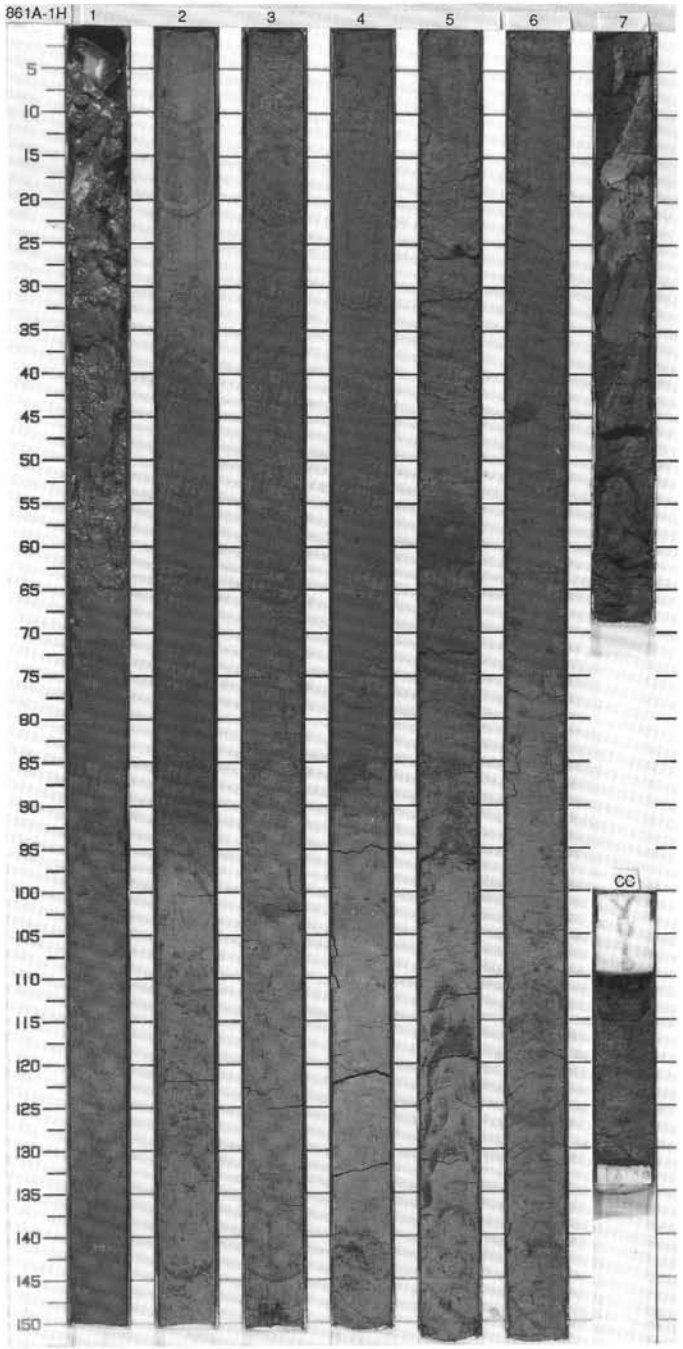
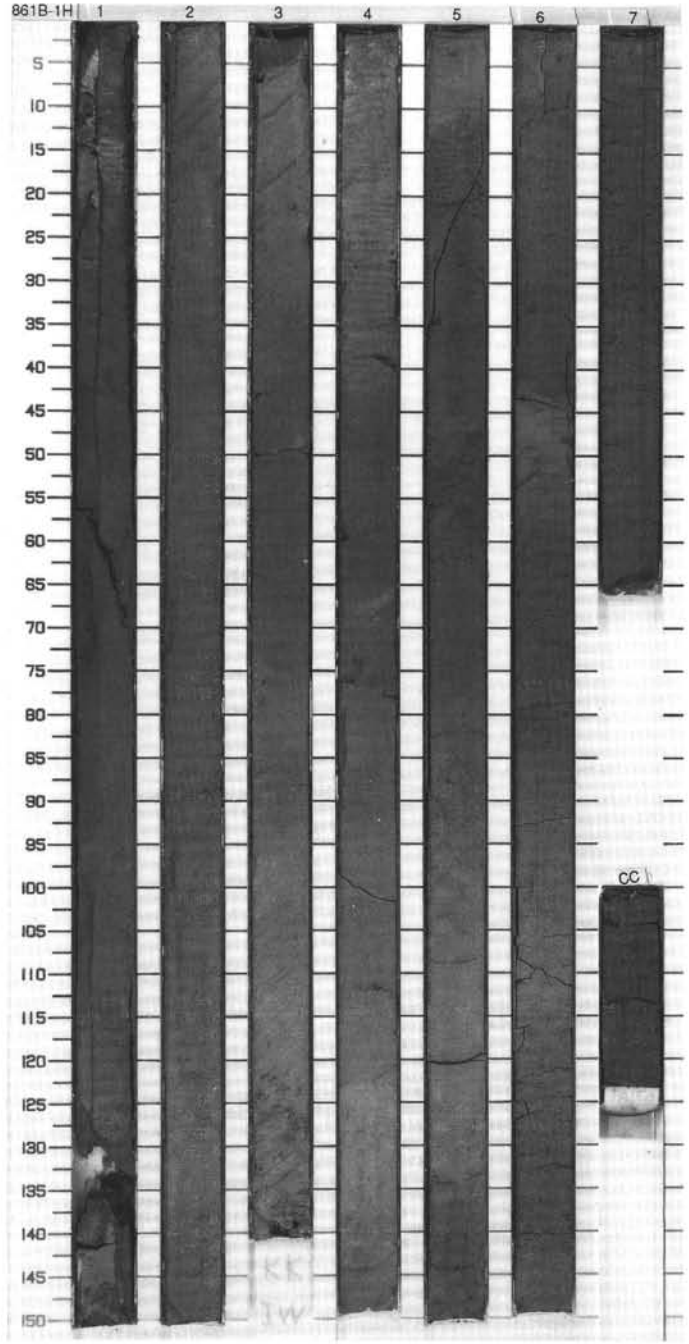
SITE 861 HOLE A CORE 1H CORED 0.0 - 9.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3 4 5 6 7 CC	upper Pleistocene - Holocene			S S S S S S S S S M	5Y 3/2 to 5Y 4/1 10Y 4/2 5Y 4/1 and 5Y 3/2	SILTY CLAY and CLAYEY SILT Major Lithologies: The core consists of olive gray (5Y 4/1; 5Y3/2) to grayish olive (10Y 4/2) SILTY CLAY and CLAYEY SILT. Minor Lithologies: A thin, graded, olive black (5Y 2/1) layer of SAND to SILT occurs in Section 5, 53-62 cm, and a graded SILT layer occurs in Section 6 at 118 cm. General Description: Isolated, black, organic-rich, silty pods occur throughout the core. These are interpreted as bioturbation features. Most contacts are mottled by bioturbation.



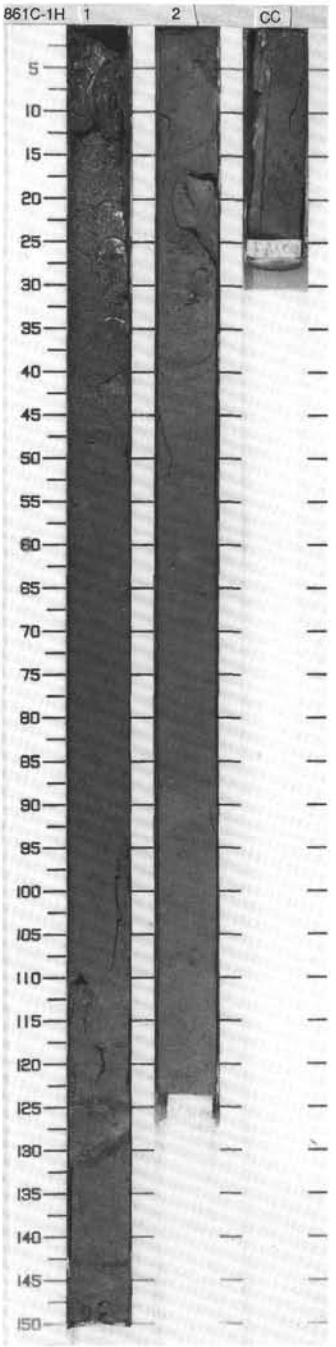
SITE 861 HOLE B CORE 1H CORED 0.0 - 9.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2	upper Pleistocene-Holocene			S	10Y 4/2	SILTY CLAY and SILTY CLAY WITH NANNOFOSILS Major Lithologies: The core consists of grayish olive (10Y 4/2) SILTY CLAY WITH NANNOFOSSILS and olive gray (5Y 3/2; 5Y 4/1) SILTY CLAY. Minor Lithology: Diffuse silty laminae occur in Section 4, 34-38 cm and 110-111 cm. General Description: Isolated pods of black, organic-rich, and white carbonate-rich silt occur throughout the core. These are interpreted as bioturbation features. Most contacts are mottled by bioturbation.
		3 4 5 6 7 CC				S I W S M	5Y 3/2 and 5Y 4/1	



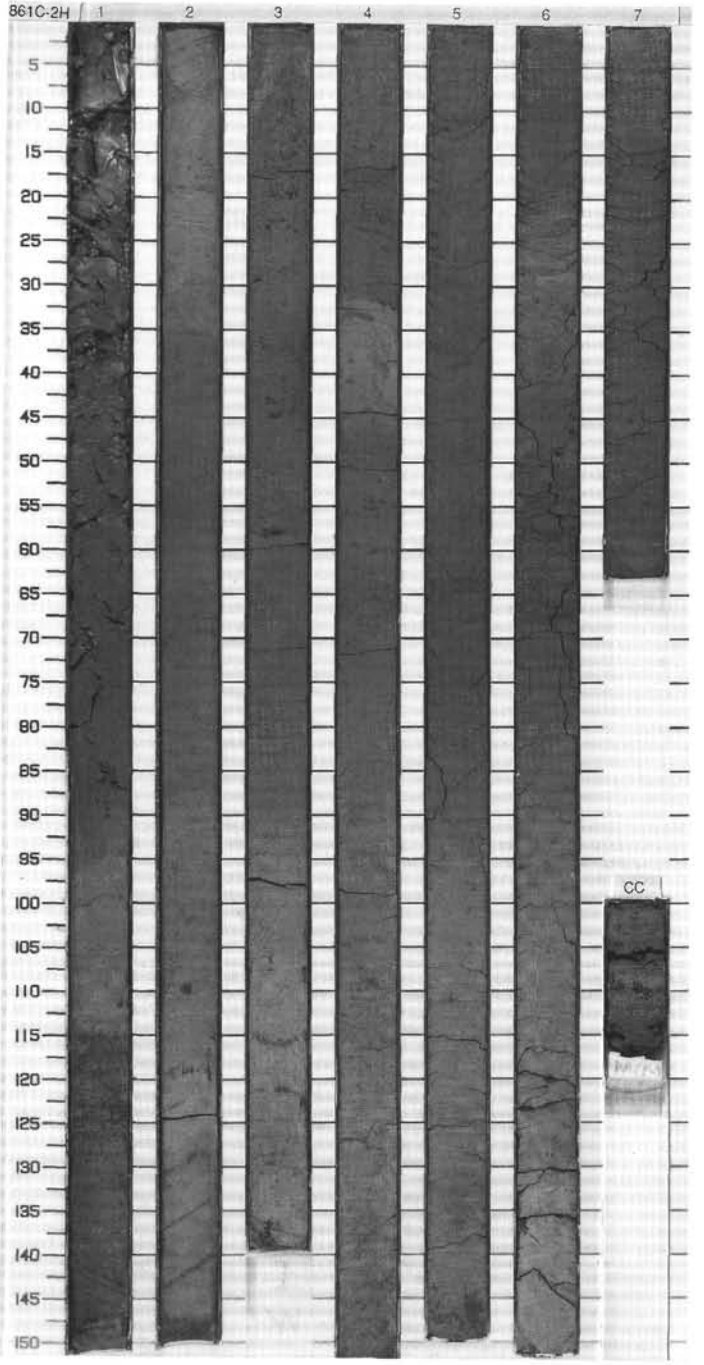
SITE 861 HOLE C CORE 1H CORED 0.0 - 3.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 CC	upper Pleistocene -Holocene		!	S S S S S S M	10Y 4/2 to 5GY 3/2	SILTY CLAY Major Lithology: This core consists of grayish olive (10Y 4/1) to grayish olive green (5Y 3/2) massively bedded (?) SILTY CLAY with mottled or variegated colors, burrows, dispersed sand-size shells and shell fragments, white specks of sponge spicules, and dark blotches of organic and pyritized organic matter. General Description: No structures are preserved.



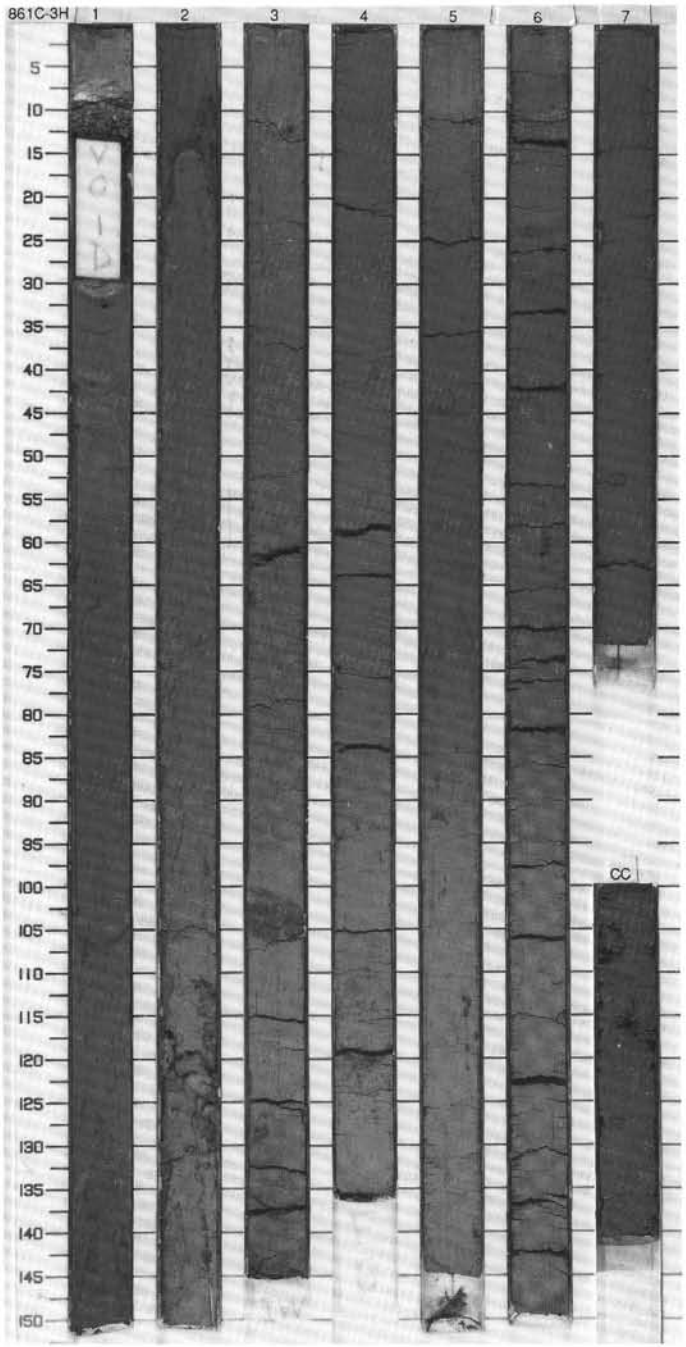
SITE 861 HOLE C CORE 2H CORED 3.0 - 12.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3 4 5 6 7 CC	upper Pleistocene			S S S S S S S S S S I W S S S S S S S S S S S M	5GY 3/2 to 5Y 3/2 5GY 4/1 to 5GY 3/2	SILTY CLAY AND CLAYEY SILT Major Lithology: This core consists mostly of interbedded dark greenish gray (5G 4/1) to grayish olive green (5GY 3/2) SILTY CLAY AND CLAYEY SILT with rare thin interbeds of the minor lithologies. Minor Lithologies: The dominant lithology is interbedded with greenish gray (5G 4/1) to grayish olive green (5GY 3/2) fine SILTY SAND and grayish olive green (5Y 3/2) SILT WITH NANNOFOSSILS. The SILTY SAND interbeds have sharp bases with underlying SILTY CLAY AND CLAYEY SILT or SILT WITH NANNOFOSSILS, and fine upwards. General Description: Little drilling disturbance is present other than downward bowing of beds at core edges. Bedding, defined by changes in texture and composition, is horizontal to gently inclined.



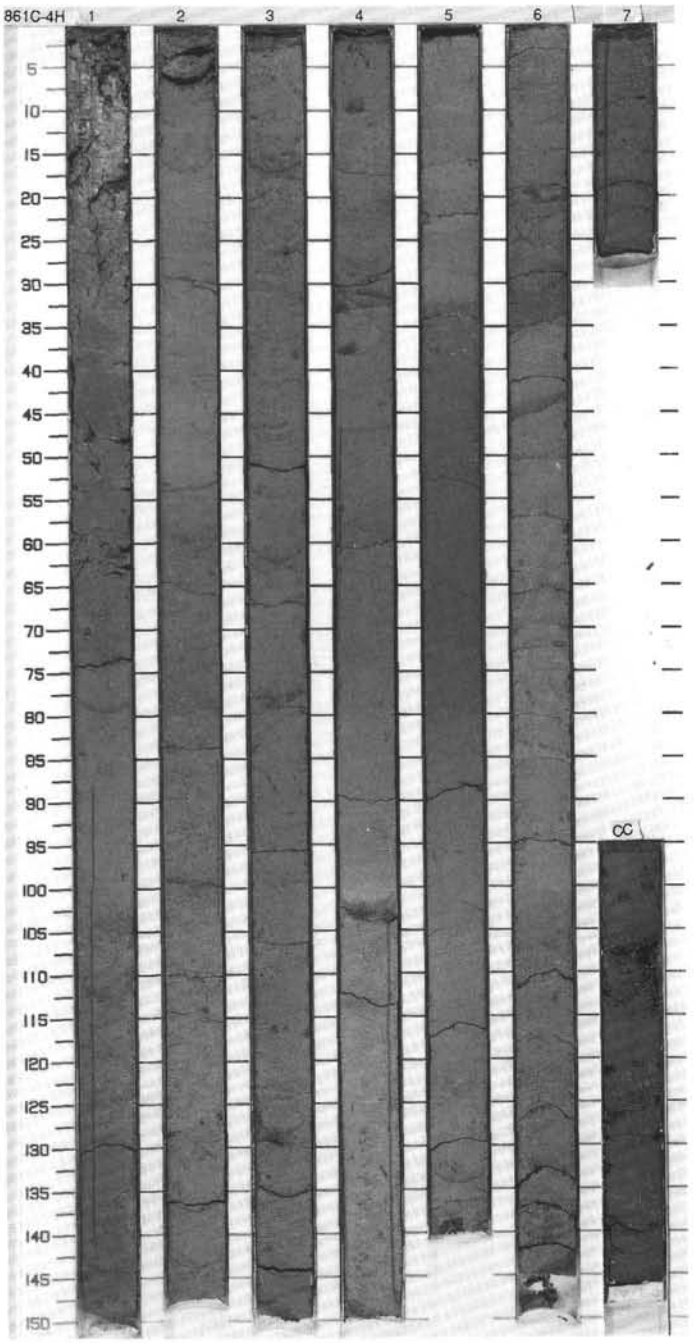
SITE 861 HOLE C CORE 3H CORED 12.5 - 22.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3 4 5 6 7 CC	upper Pleistocene	Ⓟ		S S S S I S W S S S S S	5GY 4/1 5GY 3/2	SILTY CLAY WITH NANNOFOSSILS Major Lithology: This core consists of dark greenish gray (5GY 4/1) to grayish olive green (5GY 3/2) SILTY CLAY WITH NANNO- FOSSILS; the nannofossil content varies from about 5% to about 25%. Minor Lithology: Two Intervals (Section 2, 14-20 cm; and Section 3, 101-105 cm) consist of dark greenish gray (5GY 4/1) to grayish olive green (5GY 3/2) SILTY SAND. General Description: Dispersed small pyrite concretions and white specks of sponge spicules occur throughout. Drilling disturbance has produced diapiric structures and apparent folds in all sections. Undisturbed bedding is close to horizontal in Section 5, 0-5 cm and Section 6, 20-30 cm.



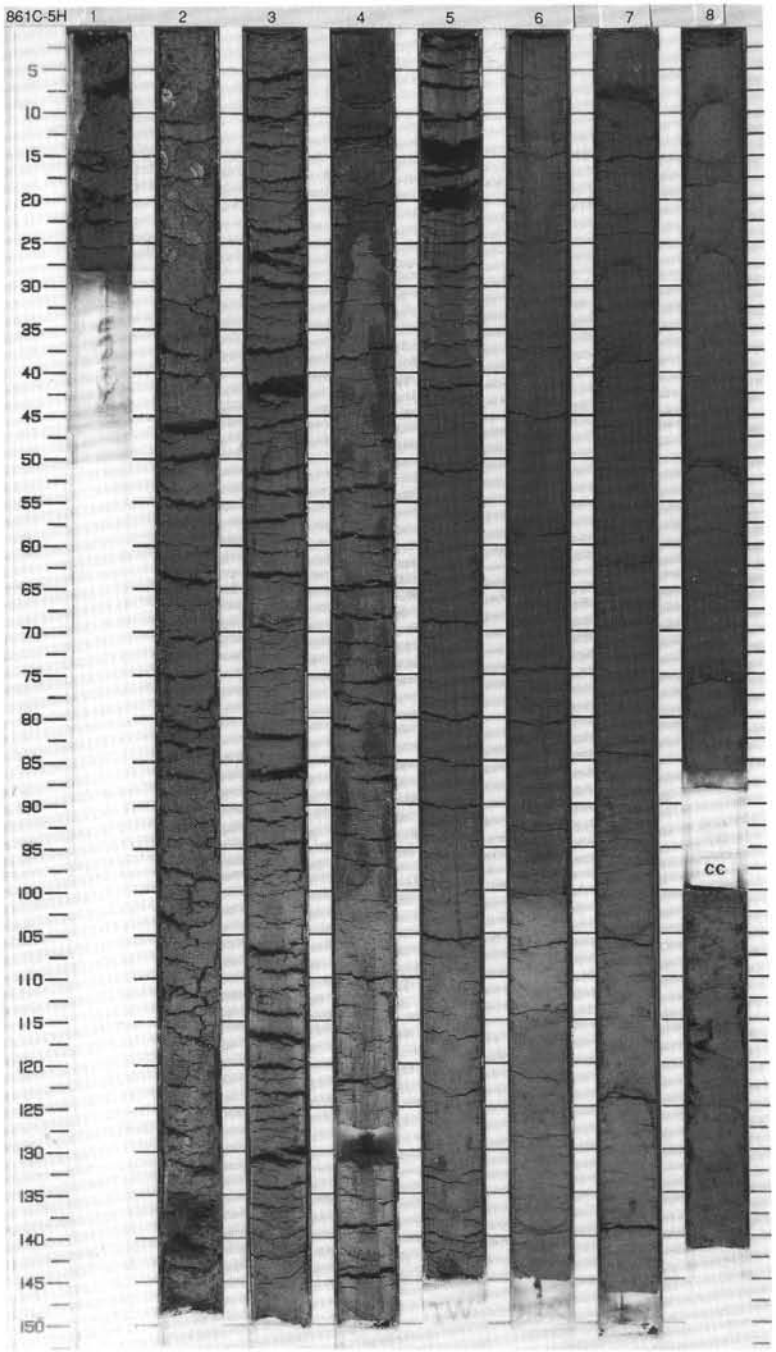
SITE 861 HOLE C CORE 4H CORED 22.0 - 31.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3 4 5 6 7 CC	upper Pleistocene	Ⓟ Ⓟ	WWWW	S S S S S S S S S I W S S S M	5Y 3/2 5Y 4/1 5Y 5/2 and 5Y 3/2 5Y 3/2 5Y 4/1 5Y 3/2 5Y 4/1 5Y 3/2	NANNOFOSSIL CLAYEY SILT, SILTY CLAY WITH NANNOFOSSILS and SILTY CLAY Major Lithologies: The core consists of olive gray (5Y 3/2) NANNOFOSSIL CLAYEY SILT, light olive gray (5Y 5/2) to olive gray (5Y 3/2) SILTY CLAY WITH NANNOFOSSILS, and olive gray (5Y 4/1) SILTY CLAY. Minor Lithologies: Diffuse silty laminae (redistributed by bioturbation) occur throughout the core (Section 1, 148 cm; Section 2, 38 cm; Section 3, 79 cm; Section 4, 31-32 cm, and 103 cm; Section 4, 95 cm; Section 6, 48 cm, 74 cm, and 78 cm). Sand is only present in one sandy silt lamina in Section 4, 33 cm. General Description: Isolated pods of black, organic-rich, and white carbonate-rich silt occur throughout the core. These are interpreted as bioturbation features. Contacts are often bioturbated. The lithologies present show some cyclicity: often SILTY CLAY passes up from a sharp base into bioturbated NANNOFOSSIL CLAYEY SILT.



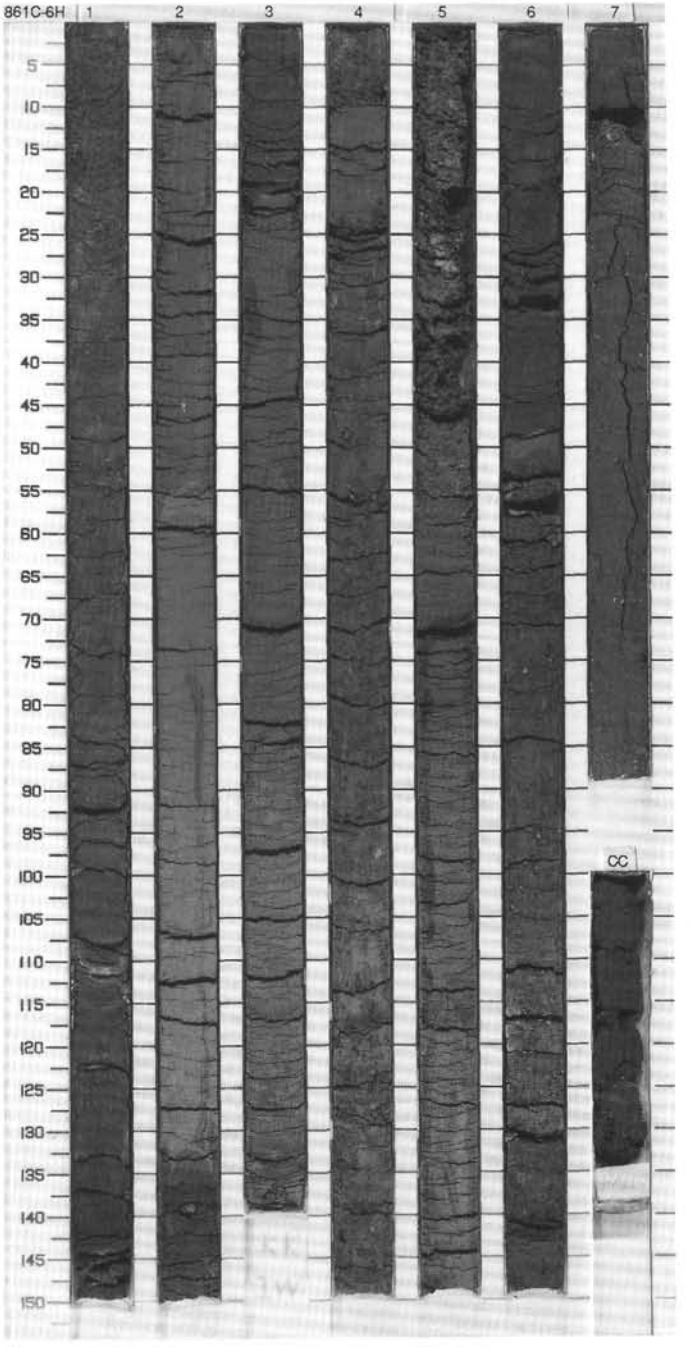
SITE 861 HOLE C CORE 5H CORED 31.5 - 41.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3 4 5 6 7 8 CC	upper Pleistocene			I S S M	5Y 3/2	NANNOFOSSIL CLAYEY SILT, SILTY CLAY WITH NANNOFOSSILS, SILTY CLAY and CLAYEY SILT Major Lithologies: Sections 1 through 6, 103 cm, consist of a highly deformed variegated (predominantly olive gray (5Y 3/2)) mixture of lithologies including: NANNOFOSSIL CLAYEY SILT, SILTY CLAY WITH NANNOFOSSILS, and SILTY CLAY. The remainder of the core is coherent and consists of olive gray (5Y 3/2) CLAYEY SILT to SILTY CLAY. Minor Lithologies: Bedding planes are defined by silty laminae (0.3 to 1.0 cm thick), many of which have been partially disseminated by bioturbation. General Description: The deformed lithologies in Sections 3 and 5 and undeformed lithologies in Sections 7 and CC contain dark pods and stringers of organic matter and silt.

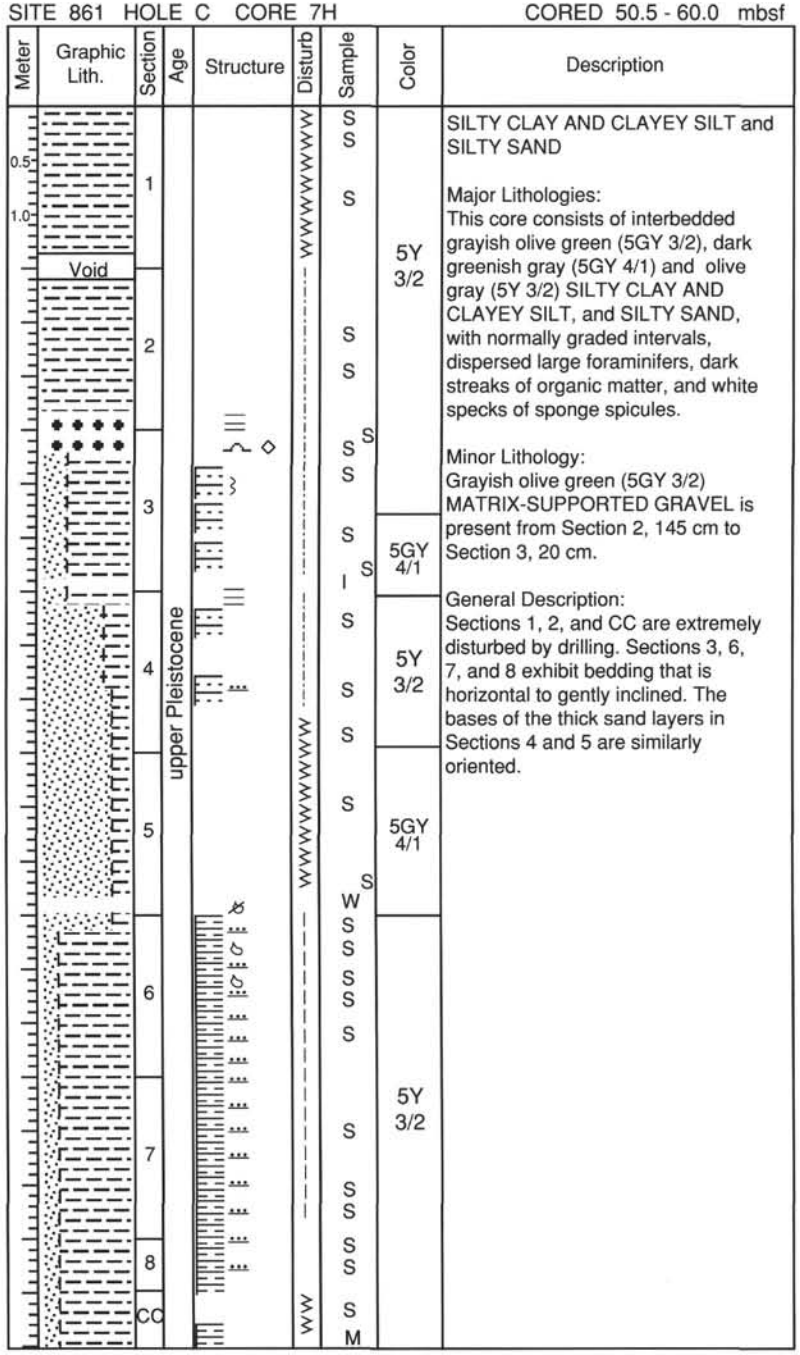


SITE 861 HOLE C CORE 6H CORED 41.0 - 50.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1	upper Pleistocene			S	5Y 3/2 to 5Y 4/1	SILTY CLAY WITH NANNOFOSSILS, SILTY CLAY and GRAVEL Major Lithologies: The core consists of olive gray (5Y 3/2; 5Y 4/1) SILTY CLAY WITH NANNOFOSSILS, medium dark gray (N4) SILTY CLAY, and muddy, olive green (5Y 3/2) granule to pebble GRAVEL. Minor Lithologies: Minor lithologies include olive gray (5Y 4/1) SANDY SILTY CLAY, olive gray (5Y 3/2) CLAY and olive black (5Y 2/1) SILT. Deformed silty laminae occur in Section 3, at 50 and 80 cm. General Description: Organic-rich, black pods occur in Section 2, 53-132 cm. Most of the pebbles and granules within gravelly units consist of angular to well-rounded fragments of claystone to silty claystone. Maximum clast size increases down core from 1.2 cm in Section 4 to 1.5 cm in Section 6 and to 1.7 cm in Section 7. Most of the gravelly units are matrix supported. Bedding planes have been distorted by drilling disturbance throughout the core. Sections 1 to 6 were cut by wire and Sections 7 and CC were cut using a saw.
		2				S	N4	
		3				S	5Y 4/1	
		4				S I W S	5Y 3/2	
		5				S	5Y 2/1	
		6					5Y 3/2	
		7						
		CC				M		



SITE 861 HOLE C CORE 7H CORED 50.5 - 60.0 mbsf

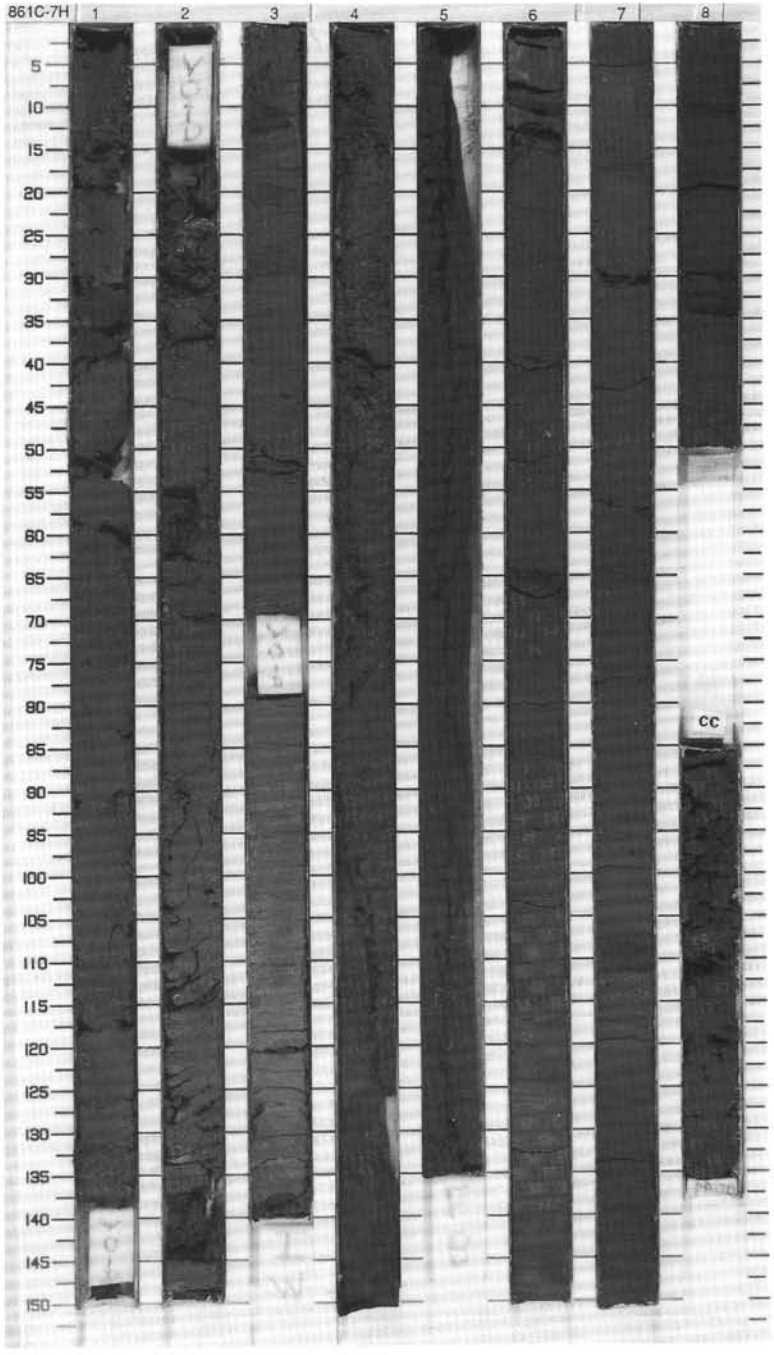


SILTY CLAY AND CLAYEY SILT and SILTY SAND

Major Lithologies:
This core consists of interbedded grayish olive green (5GY 3/2), dark greenish gray (5GY 4/1) and olive gray (5Y 3/2) SILTY CLAY AND CLAYEY SILT, and SILTY SAND, with normally graded intervals, dispersed large foraminifers, dark streaks of organic matter, and white specks of sponge spicules.

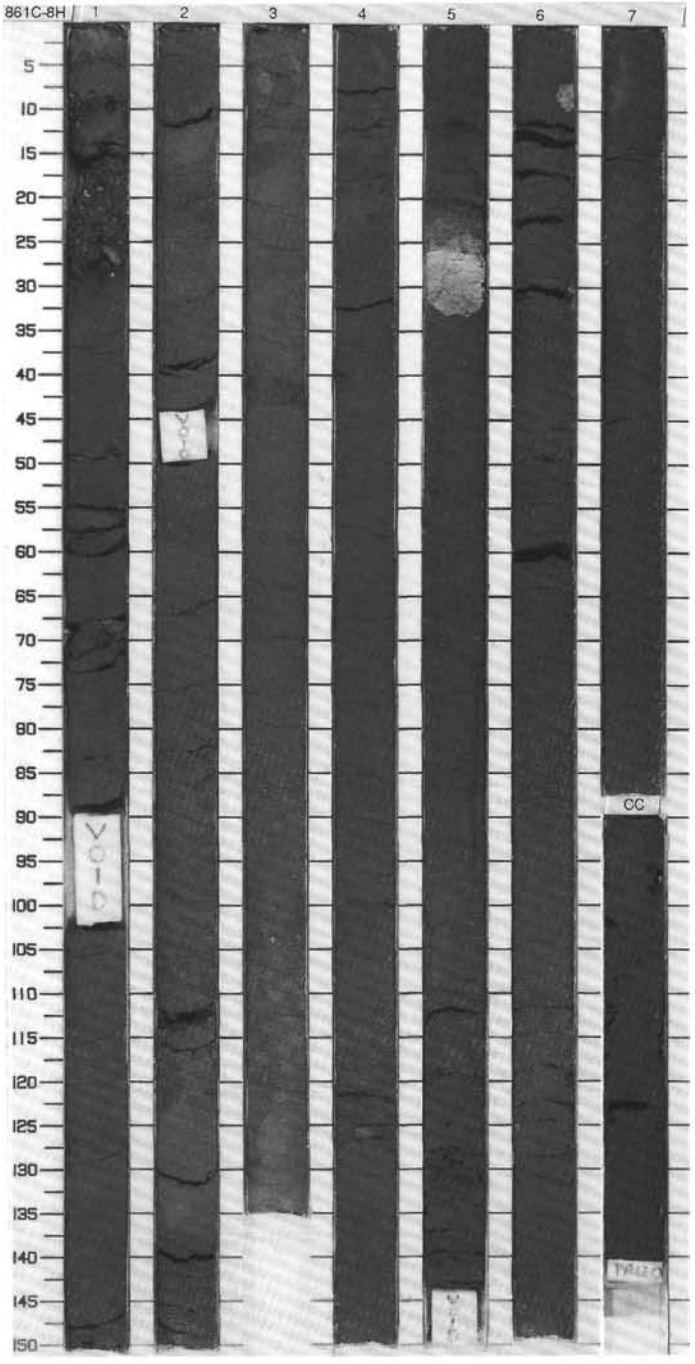
Minor Lithology:
Grayish olive green (5GY 3/2) MATRIX-SUPPORTED GRAVEL is present from Section 2, 145 cm to Section 3, 20 cm.

General Description:
Sections 1, 2, and CC are extremely disturbed by drilling. Sections 3, 6, 7, and 8 exhibit bedding that is horizontal to gently inclined. The bases of the thick sand layers in Sections 4 and 5 are similarly oriented.



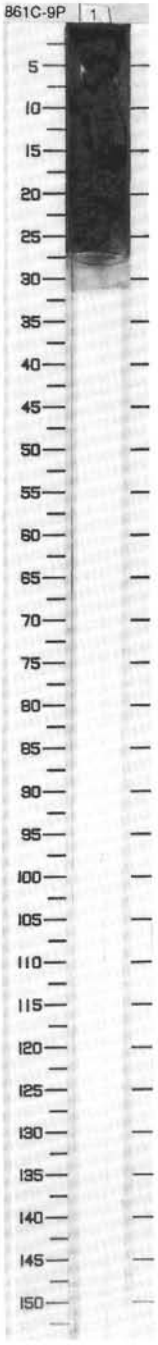
SITE 861 HOLE C CORE 8H CORED 60.0 - 69.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3 4 5 6 7 CC	upper Pleistocene	-A- ***		S S S S S S I W S S S S S M	5GY 4/1 5GY 3/2 5Y 6/1 5GY 3/2	SILTY CLAY AND CLAYEY SILT and MATRIX-SUPPORTED GRAVEL Major Lithologies: This core consists mostly of interbedded dark greenish gray (5GY 4/1) to grayish olive green (5GY 3/2) SILTY CLAY AND CLAYEY SILT, and dark greenish gray (5GY 4/1) granule to pebble MATRIX-SUPPORTED GRAVEL containing nannofossils, localized zones of bioturbation, shell and pyritized wood fragments. Minor Lithologies: A light olive gray (5Y 6/1) to light gray (N7) stratified, normally-graded, VOLCANIC ASH layer occurs in Section 5, 22 to 37 cm. It is overlain by a thin Interval (20 to 22 cm) of dark greenish gray, laminated, TUFFACEOUS SAND. General Description: Bedding is horizontal to gently inclined in Sections 1 through 4 and in Section 5, 0-37 cm. Section 5, below 37 cm, and Sections 6, 7, and CC all consist of 'flow-in' silty clay.



SITE 861 HOLE C CORE 9P CORED 69.5 - 71.0 mbsf

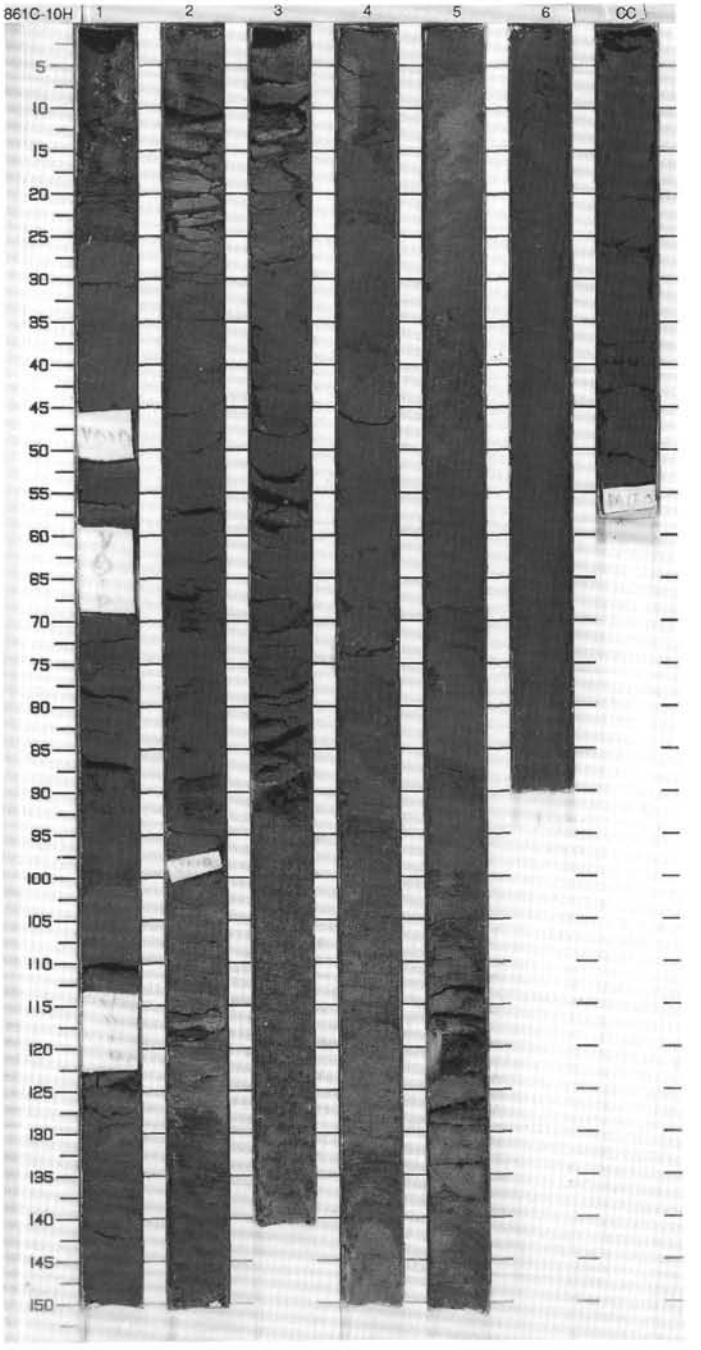
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.1 0.2		1	u. Pleistocene		XXXXXXX	S	5Y 3/2	SILTY CLAY Major Lithology: This core consists of olive gray (5Y 3/2) SILTY CLAY. General Description: The core is entirely fragmented and no original attributes are preserved.



SITE 861 HOLE C CORE 10H CORED 71.0 - 80.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3 4 5 6 CC	upper Pleistocene	F F F F		S S S S I S S	5Y 3/2 5Y 4/1 5Y 3/2	CLAYEY SILT TO SILTY CLAY and GRAVEL Major Lithologies: The core consists of olive gray laminated to massive (5Y 3/2) CLAYEY SILT to SILTY CLAY interbedded with 5-20 cm thick olive gray (5Y 3/2) GRAVEL beds. Successions from gravel to silty clay are fining upward. Minor Lithology: Laminated coarser SILT TO FINE SAND occurs in Section 1, 35-38 cm, 135-140 cm; Section 2, 65-72 cm, 90-95 cm, 120-125 cm and in Section 5, 85-90 cm, 100-105 cm. General Description: Gravelly beds are clast-supported, with granule- to pebble-sized clasts ranging from dark greenish gray (5GY 4/1) to olive gray (5Y 3/2) siltstone and claystone and some wood and shell fragments. Lower contacts are sharp and upper contacts gradational. Bioturbated parts are dark greenish gray (5GY 4/1). In Section 3 between 120 and 140 cm the gravelly portion is matrix-supported and inversely graded, changing to clast-supported and fining-upward in 70-120 cm. The matrix is clayey silt and maximum clast-size is 1.8 cm. Both angular and well-rounded clasts are present. The overlying sediment from 5-70 cm is olive gray (5Y 4/1) silty clay.

861C-11X Entire core given to paleontologists.

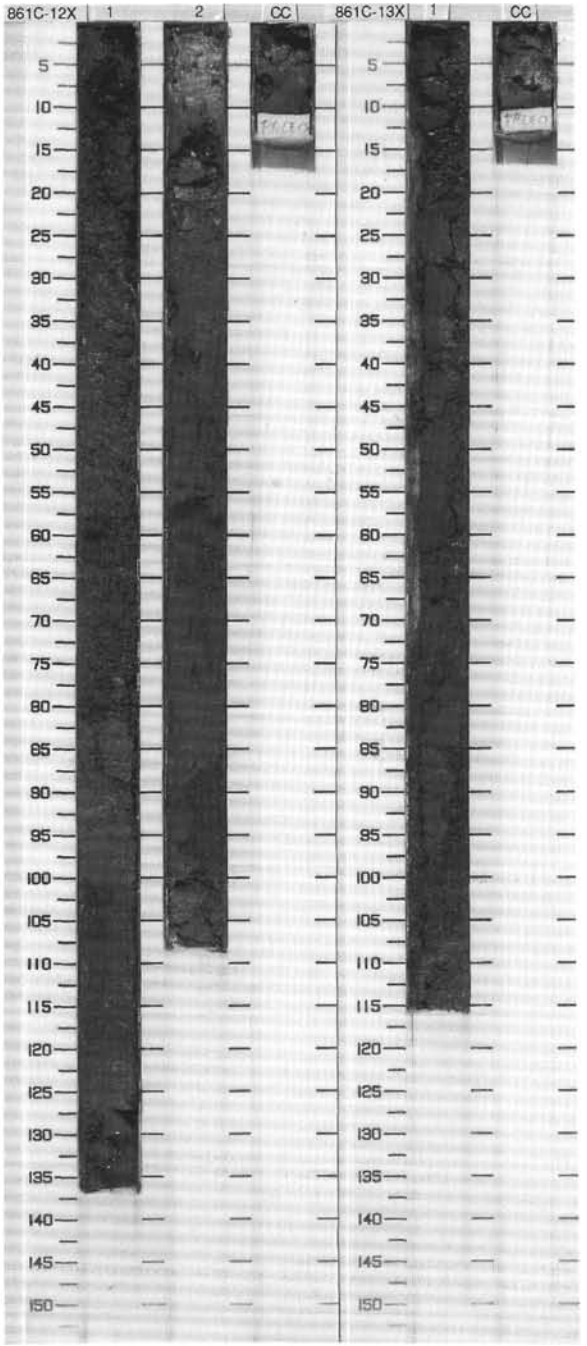


SITE 861 HOLE C CORE 12X CORED 90.1 - 99.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 CC	Upper Pleistocene		XXXX WW W	S S S I W S S M	5Y 3/2 To 5Y 4/1	SILTY CLAY Major Lithology: The core predominantly consists of olive gray (5Y 3/2; 5Y 4/1) SILTY CLAY. Minor Lithologies: One interval of olive gray (5Y 4/1) CLAY is present. Granule- and sand-rich zones occur in Section 2, 25-29 cm and 76-78 cm. General Description: Black, organic-rich spots are present in Section 2, 25-78 cm.

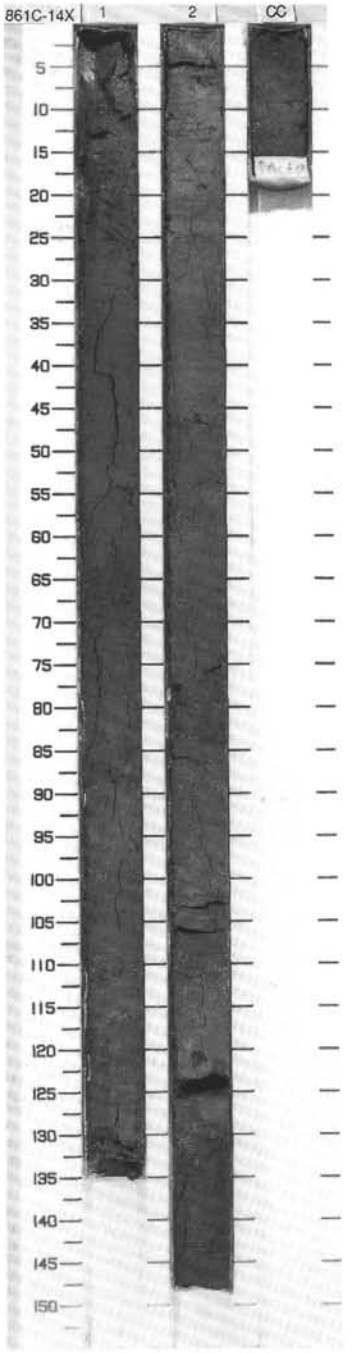
SITE 861 HOLE C CORE 13X CORED 99.8 - 109.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 CC	u. Pleistocene		XXXXXX	S M	N 4	CLAY Major Lithology: The core consists of structureless fragments of dark gray (N4) CLAY. General Description: Large foraminifers are present in Section 1, 20 cm.



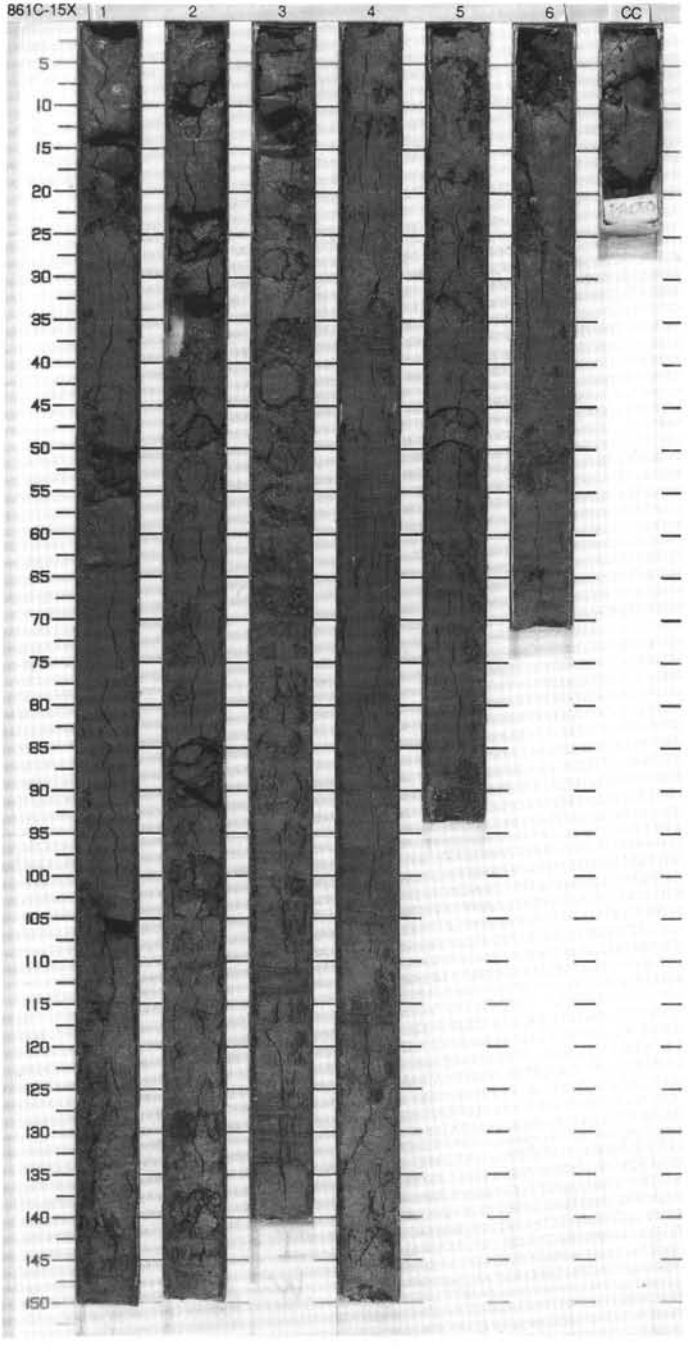
SITE 861 HOLE C CORE 14X CORED 109.4 - 119.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 CC	upper Pleistocene	F	X	S S I S S M	W 5Y 4/1 To 5Y 3/2	CLAYEY SILT and SANDY SILTY CLAY Major Lithologies: The core predominantly consists of olive gray (5Y 4/1; 5Y 3/2) CLAYEY SILT and SANDY SILTY CLAY. Minor Lithologies: The top 24 cm of Section 1 consists of fragments of olive gray (5Y 3/2) SILT. Granule- to pebble-sized GRAVEL is dispersed in the core catcher; maximum clast size is 0.8 cm. General Description: Silty laminations and dark, organic-rich spots occur throughout the core, and these have been modified by drilling. The lowermost part of the core consists of a graded unit which starts as matrix-supported granules and sand in Section CC, 4-15 cm, and passes up-core into a poorly sorted mixture of gravel and sand (Section CC, 0-4 cm; disturbed by drilling), overlain by muddy sand and then silt in Section 2.



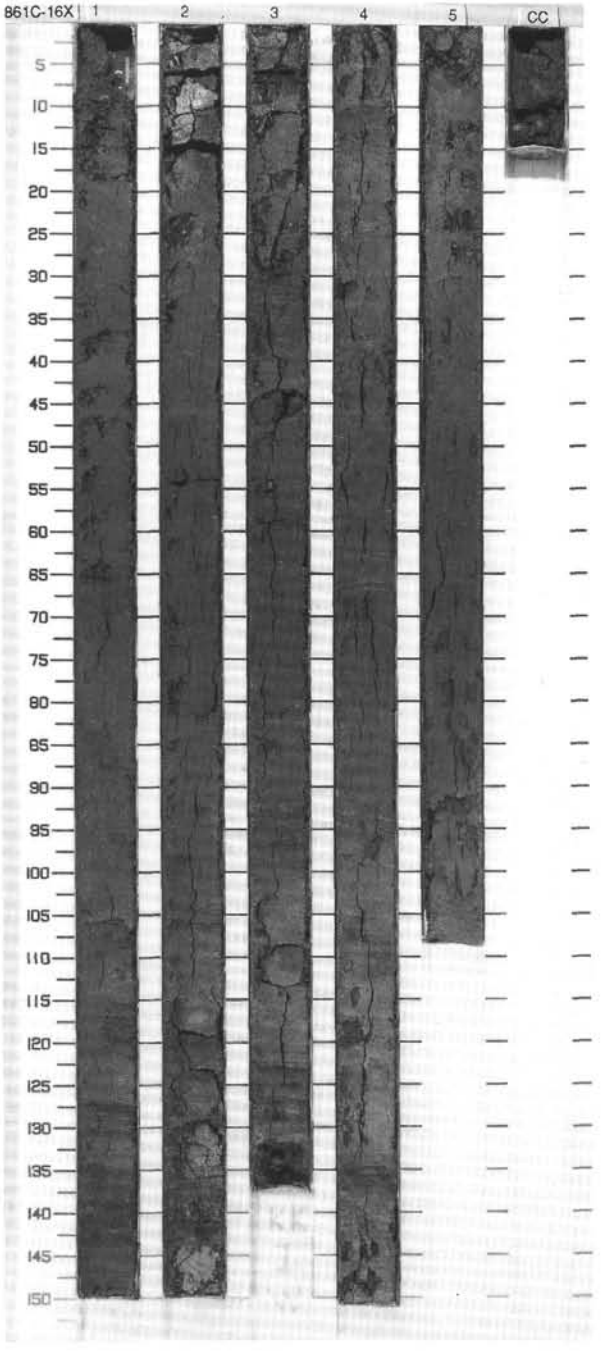
SITE 861 HOLE C CORE 15X CORED 119.0 - 128.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3 4 5 6	lower Pleistocene	F F F F F F		S S S S I S S M	5Y 3/2 To 5Y 4/1	SILTY CLAY TO CLAYEY SILT, SILTY CLAYSTONE and MATRIX-SUPPORTED GRAVEL Major Lithologies: The core predominantly consists of olive gray (5Y 3/2 ; 5Y 4/1) SILTY CLAY TO CLAYEY SILT, SILTY CLAYSTONE, and MATRIX-SUPPORTED GRAVEL. Minor Lithologies: Minor lithologies include CLAY, SAND, and SILT. General Description: The muddy gravel units are primarily MATRIX-SUPPORTED GRAVEL with some linear bands of granules; pebbles are present in Sections 1 and 2. Graded units start with a sharp planar to scoured contact overlain by gravelly coarse SAND to sandy SILT, followed by parallel-laminated to cross-laminated SILT to clayey SILT, and capped by structureless to bioturbated silty CLAY. Some of these graded intervals are separated by units of SILTY CLAYSTONE or MATRIX-SUPPORTED GRAVEL. Note that the silty clay in this core is preferentially consolidated, forming SILTY CLAYSTONE.



SITE 861 HOLE C CORE 16X CORED 128.9 - 138.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3 4 5 CC	lower Pleistocene	F	WWW	S S S S I W S M	5Y 3/2	SILTY CLAY TO CLAYEY SILT, SILT and SAND Major Lithologies: The core consists of olive gray (5Y 3/2) SILTY CLAY TO CLAYEY SILT, SILT, and SAND. Some intervals of clayey silt are enriched in diatoms. General Description: The lithologies in this core are arranged in upward-fining sequences starting at a sharp planar to scoured contact overlain by sand or coarse silt, grading upward into parallel- to cross-laminated fine silt to clayey silt, and capped by structureless to bioturbated silty clay. The massive silty clay units in Sections 1 and 5 contain black, organic-rich pods and laminae.



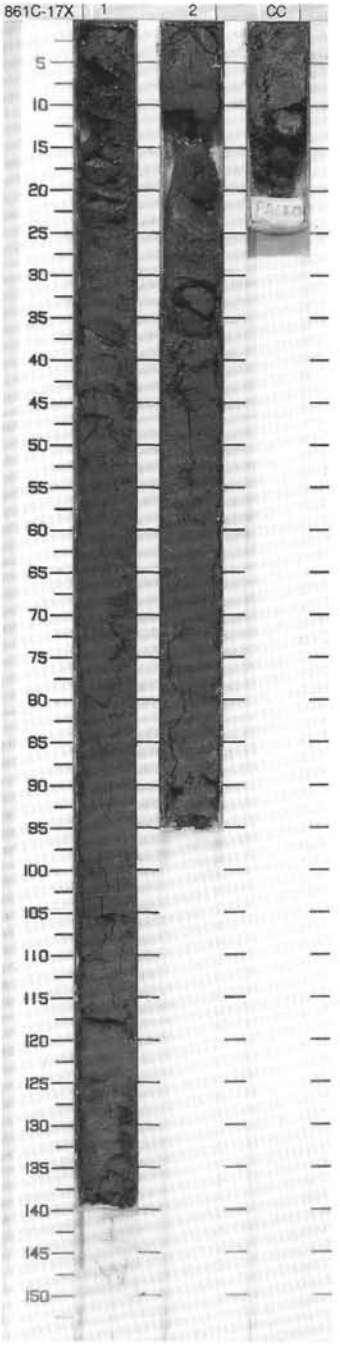
SITE 861 HOLE C CORE 17X CORED 138.7 - 148.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color
0.5 1.0		1 2 CC	lower Pleistocene		XXXXXX	S S S S S M	5Y 3/2

SILTY CLAY AND CLAYEY SILT, FINE SAND and CLAYEY COARSE SAND AND GRAVEL

Major Lithologies:
This core consists of an olive gray (5Y 3/2) sequence of interbedded SILTY CLAY AND CLAYEY SILT, FINE SAND, and CLAYEY COARSE SAND AND GRAVEL, that comprises three complete upward-fining turbidites and parts of two others each with thicknesses of 30 to 50 cm. Bases of CLAYEY COARSE SAND AND GRAVEL have shell fragments and pyritized wood stems. Central portions of FINE SAND are planar-laminated.

General Description:
Although highly disturbed by drilling, stratigraphy is preserved; bedding is horizontal to gently inclined.



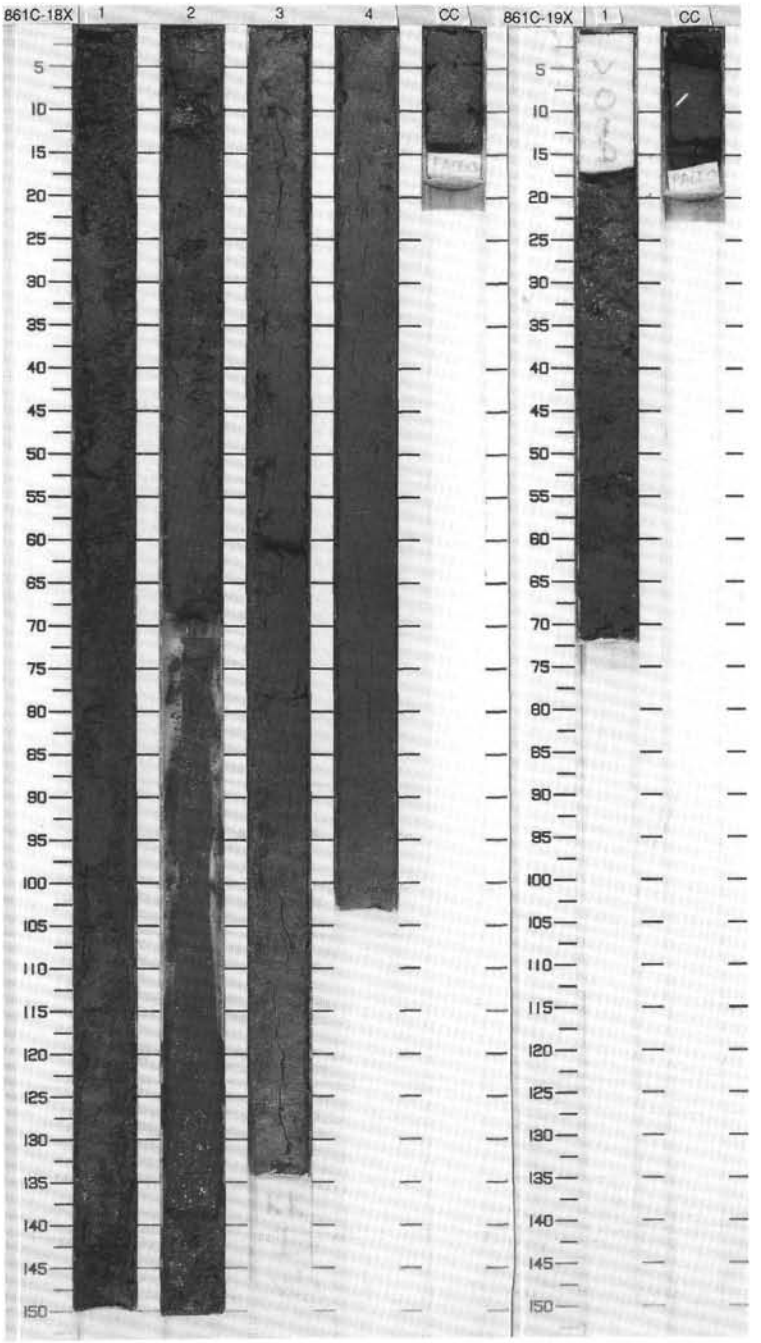
SITE 861 HOLE C CORE 18X CORED 148.5 - 158.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3 4 CC	lower Pleistocene	F	WWWWWWWWWWWWWW	S S S I W S S M	5Y 3/2	MATRIX-SUPPORTED GRAVEL, SILTY CLAY AND CLAYEY SILT and SILTY SAND Major Lithologies: This core consists of interbedded olive gray (5Y 3/2) pebble to granule MATRIX-SUPPORTED GRAVEL, SILTY CLAY AND CLAYEY SILT, and SILTY SAND. In part these appear in normally-graded, upward-fining intervals from 50 to 150 cm in thickness. MATRIX-SUPPORTED GRAVEL clasts include shell fragments and pyritized wood stems in addition to lithic fragments of claystone, siltstone, and other lithologies. General Description: The entire core is highly disturbed, but the stratigraphic sequence is preserved, and bedding is approximately flat-lying.

SITE 861 HOLE C CORE 19X CORED 158.3 - 168.2 mbsf

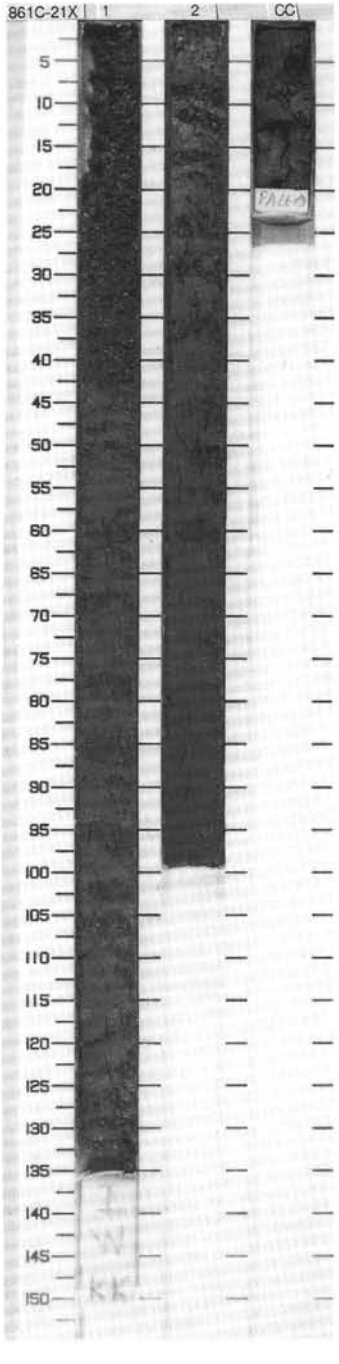
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5	Void	1 CC	lower Pleis.		WWWW	S M	5GY 3/2	CLAYEY SILT and MATRIX-SUPPORTED GRAVEL Major Lithologies: This core consists of grayish olive green (5GY 3/2) CLAYEY SILT, and MATRIX-SUPPORTED GRAVEL of granule to pebble-size clasts within a clayey silt matrix. General Description: Although disrupted into biscuits by drilling, the sediment within biscuits is semi-coherent and exhibits incipient fissility.

861C-20P NO RECOVERY



SITE 861 HOLE C CORE 21X CORED 170.2 - 179.9 mbsf

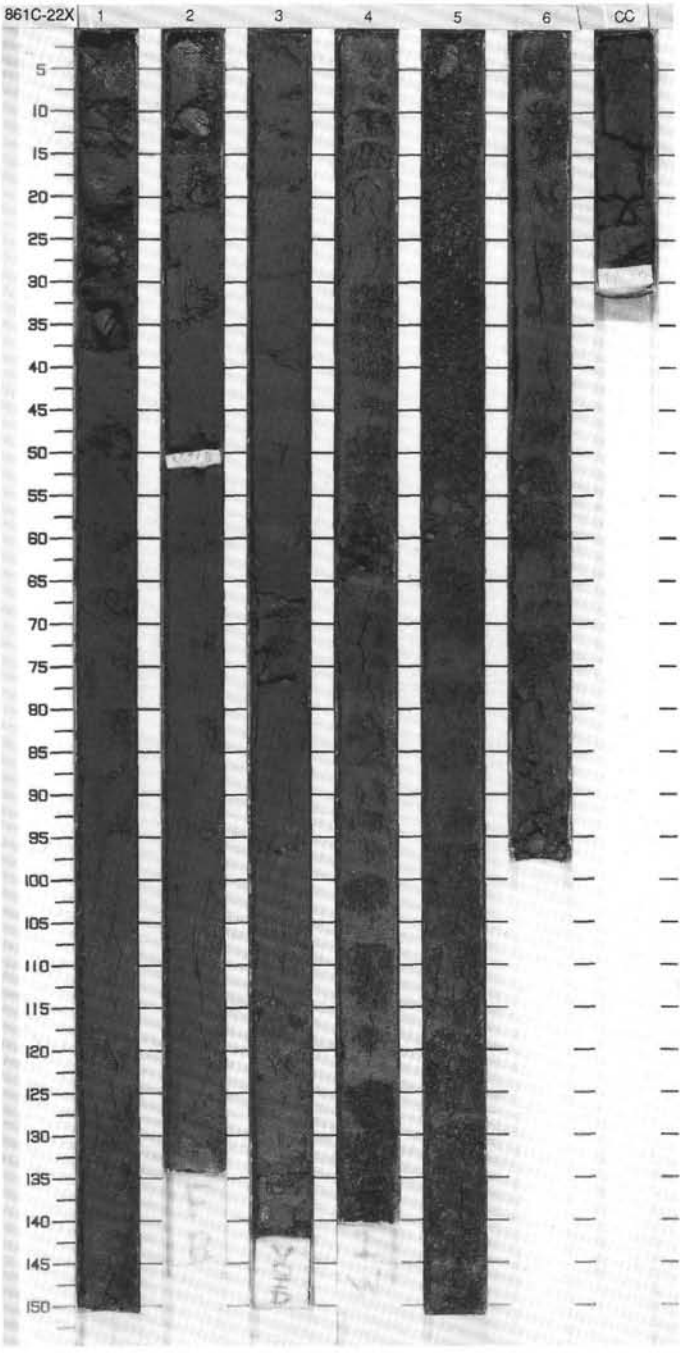
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 CC	upper Pliocene		XX	S I W S M	5Y 3/2 5GY 3/2	CLAYEY SILT with greenish black SILTY CLAY AND CLAYEY SILT Major Lithology: This core consists of olive gray (5Y 3/2) interbedded SILTY CLAY AND (5GY 2/1) concretions, and rare shell fragments. Grayish olive green (5GY 3/2) CLAYEY SILT at the base of the core has nannofossils, radiolaria, and sponge spicules. General Description: Although the core is highly disturbed and lacks primary bedding contacts, the stratigraphic succession is preserved. The sediment exhibits an incipient fissility.



SITE 861 HOLE C CORE 22X CORED 179.9 - 189.6 mbsf

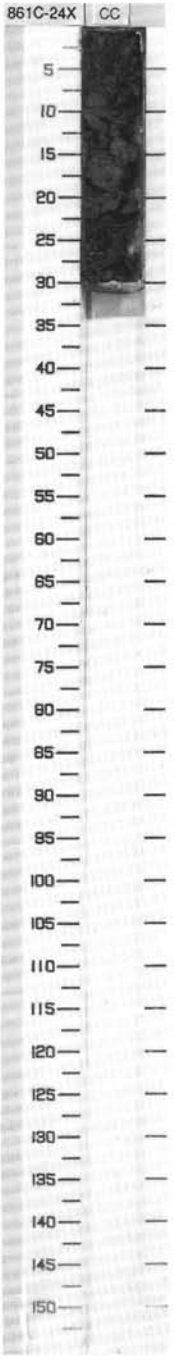
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3 4 5 6 CC	upper Pliocene	Ca Ca Ca A P P	XX	S S S W S S S S I S S M	5GY 3/2 5Y 3/2 5GY 3/2 5Y 3/2	CLAYEY SILT AND SILTY CLAY and MATRIX-SUPPORTED GRAVEL Major Lithologies: This core consists of grayish olive green (5GY 3/2) to olive gray (5Y 3/2) interbedded CLAYEY SILT AND SILTY CLAY, and MATRIX-SUPPORTED GRAVEL with clayey silt matrix. Minor Lithologies: In Sections 1 and 3, burrows filled with SILTY SAND are present. A thin (<0.5 cm) lens of light gray (N7) VOLCANIC LAPILLI is present at 110 cm in Section 3. General Description: Matrix-supported gravel in Section 3 and Section 4 near the thin VOLCANIC LAPILLI layer has tuffaceous clasts. Although severely disturbed by drilling, the stratigraphic sequence is preserved. Sediments exhibit no structures other than an incipient fissility.

861C-23X NO RECOVERY



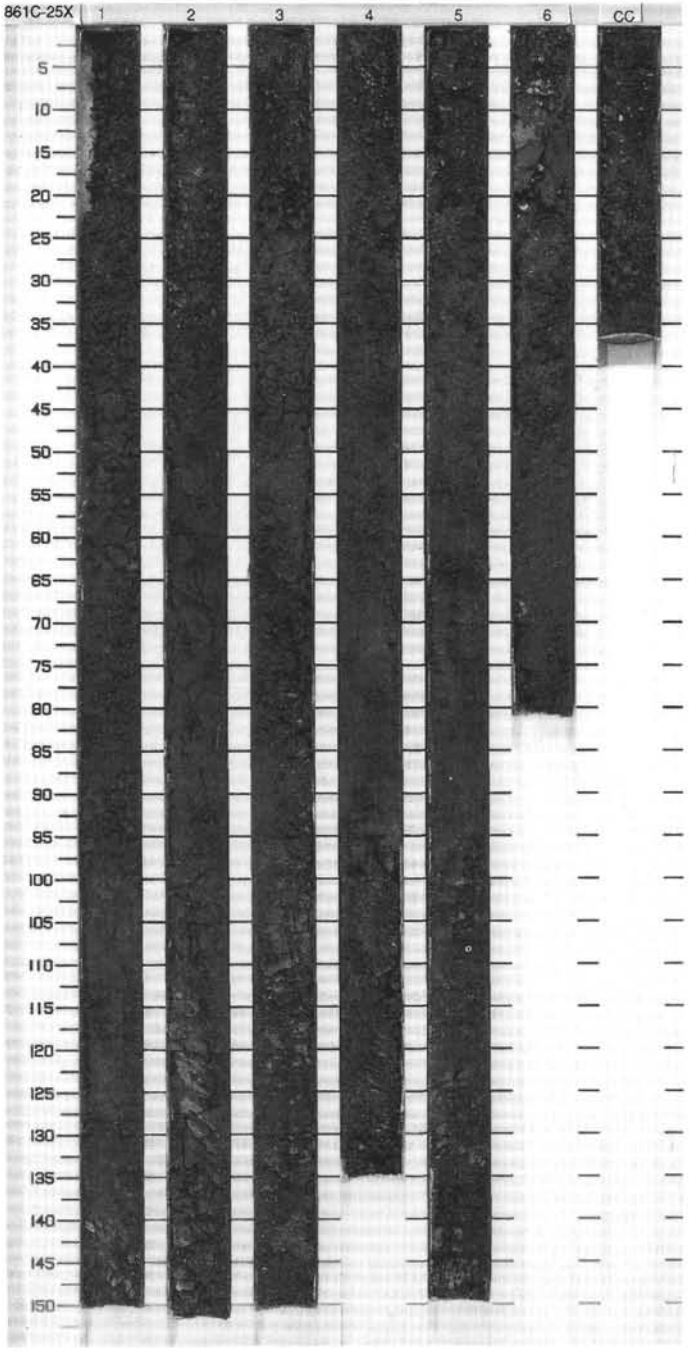
SITE 861 HOLE C CORE 24X CORED 199.2 - 208.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.2		CC	u. Pli.		W	M S	5 Y 3/2	SILTY CLAY Major Lithology: The core consist of olive gray (5Y 3/2), structureless SILTY CLAY.



SITE 861 HOLE C CORE 25X CORED 208.9 - 218.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3 4 5 6 CC	upper Pliocene			S S S S I W S M	5Y 3/2	SILTY CLAY TO SILTY CLAYSTONE Major Lithology: The core consists of olive gray (5Y 3/2), partially consolidated SILTY CLAY to consolidated SILTY CLAYSTONE. Coherent pieces show massive texture. Some horizontal laminae are present in Section 2, 140-142 cm. Minor Lithologies: Concentrations of micritic silt/sand occur in Section 1, 28-32 cm and Section 2, 102-104 cm. General Description: Sections 5, 6, and CC are slightly more greenish and calcareous.

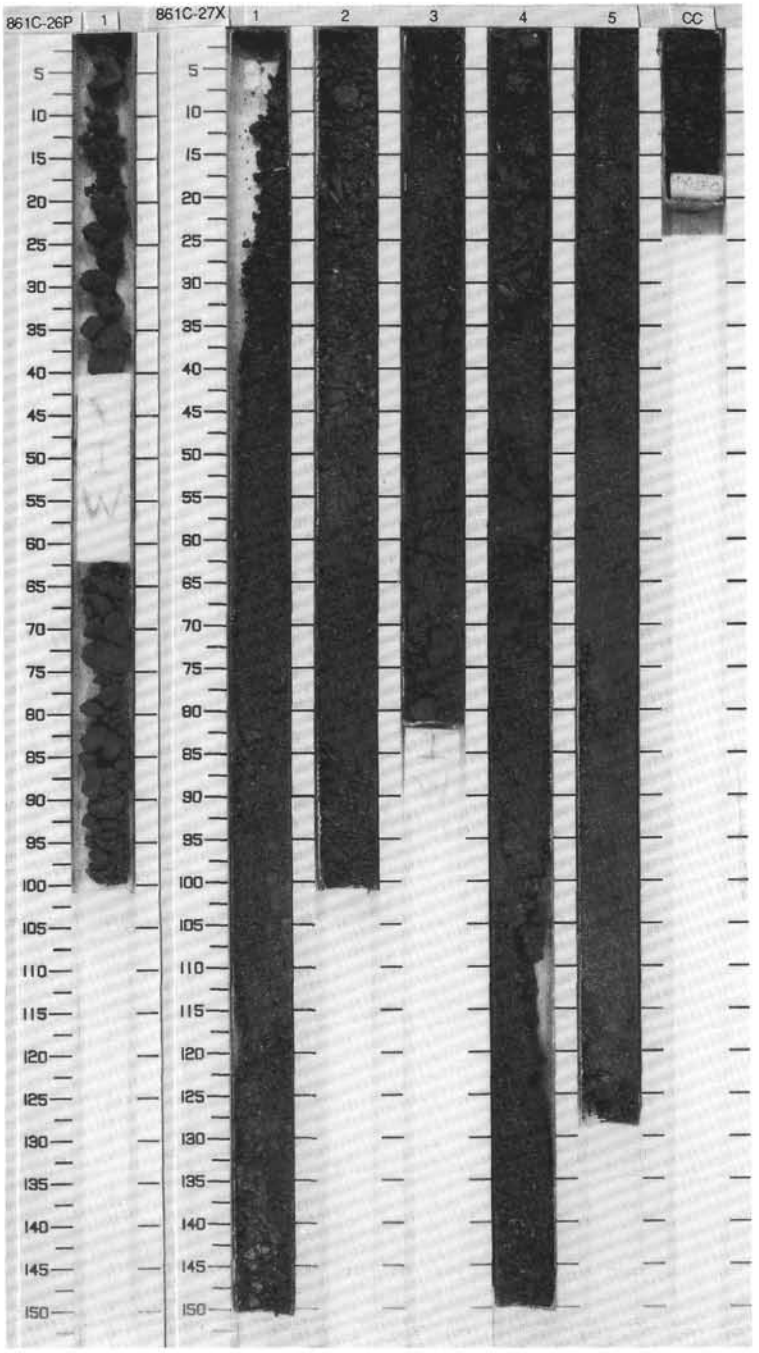


SITE 861 HOLE C CORE 26P CORED 218.6 - 220.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1	uPli		XXXXX	I S	5Y 3/2	SILTY CLAYSTONE Major Lithology: This core consists of several loose pieces of olive gray (5Y 3/2) SILTY CLAYSTONE. The core is highly disturbed by drilling.

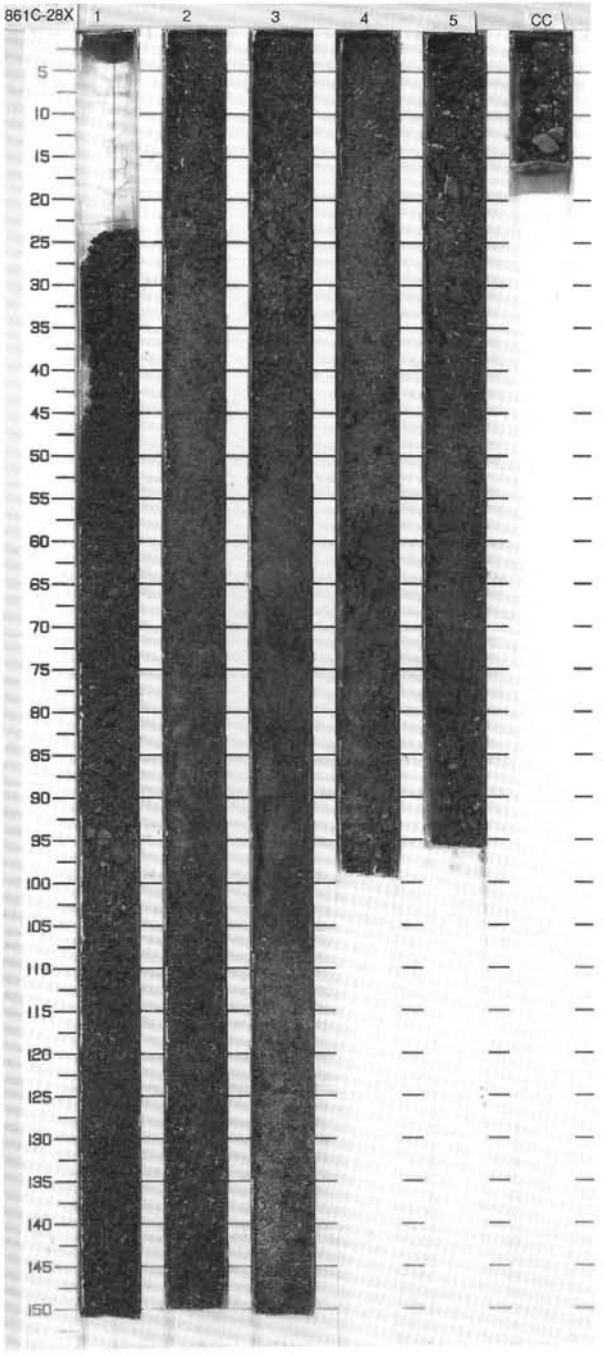
SITE 861 HOLE C CORE 27X CORED 220.1 - 228.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1	upper Pliocene		XXXXXXXXXX	S	5Y 4/1	CLAYSTONE TO SILTY CLAYSTONE Major Lithology: The core consists of olive gray (5Y 4/1 to 5Y 3/2) CLAYSTONE TO SILTY CLAYSTONE.
		2				S	5Y 3/2	
		3				I		
		4				S		
		5					5Y 4/1	
		CC				M		



SITE 861 HOLE C CORE 28X CORED 228.1 - 237.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	Void	1	upper Pliocene			S	5Y 3/2	SILTY CLAYSTONE TO CLAYEY SILTSTONE Major Lithology: This core consists of olive gray (5Y 3/2) SILTY CLAYSTONE TO CLAYEY SILTSTONE. Sections 4, 5, and CC are slightly more calcareous, they contain a small amount of micritic carbonate after nannofossils and foraminifers. General Description: The entire core is highly fractured by drilling and consists of drilling breccia fragments of silty claystone and clayey siltstone with some loose silt and sand. Relatively coherent intervals occur in Section 4, 60-80 cm and in Section 5, 70-80 cm.
0.5		2						
1.0		3						
		4				S		
		5				I W		
		CC				M		

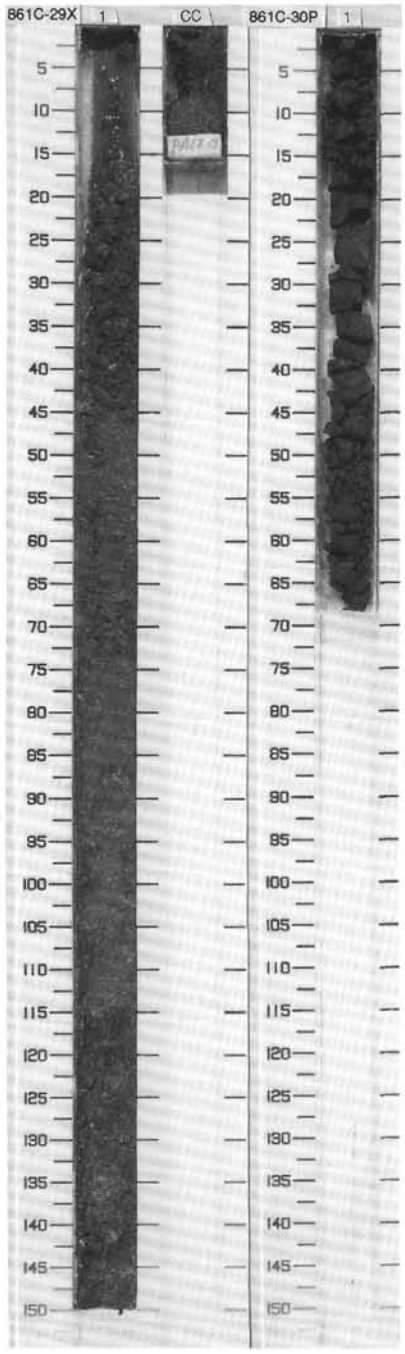


SITE 861 HOLE C CORE 29X CORED 237.7 - 247.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 CC	upper Pliocene		XXXXXXXX	S S S M	5Y 4/1 5Y 3/2	SANDY SILTSTONE and SILTSTONE WITH NANNOFOSSILS Major Lithologies: Section 1 primarily consists of structureless fragments of olive gray (5Y 4/1) SANDY SILTSTONE and SILTSTONE WITH NANNOFOSSILS. Minor Lithology: Section 1, 148-150 cm, and Section CC consists of structureless fragments of olive gray (5Y 3/2) NANNOFOSSIL SILTY CLAYSTONE.

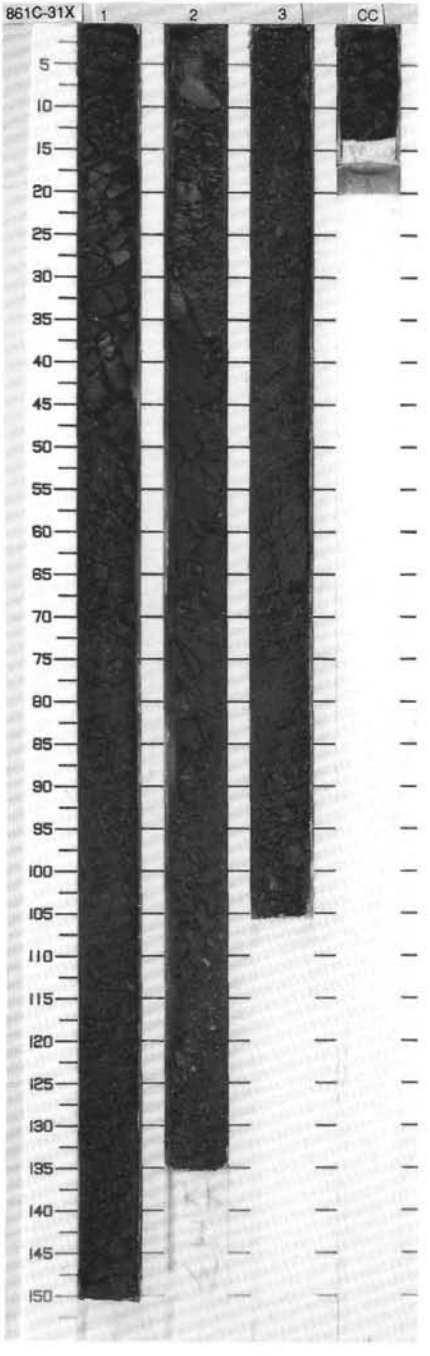
SITE 861 HOLE C CORE 30P CORED 247.3 - 248.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5		1	u. Pli.		VVV	S	5Y 3/2	CLAYEY SILTSTONE Major Lithology: The core consists of compressed, olive gray (5Y 3/2) CLAYEY SILTSTONE. General Description: The structure of the core is a function of the pressure-coring process.



SITE 861 HOLE C CORE 31X CORED 248.3 - 257.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3 CC	upper Pliocene			S S I W M	5Y 3/2	SILTY CLAYSTONE WITH NANNOFOSSILS Major Lithology: This core consists of massive olive gray (5Y 3/2) SILTY CLAYSTONE WITH NANNOFOSSILS. Part of the calcareous component is present as micritic recrystallized carbonate. General Description: The core is brecciated by drilling and consists of fragments of silty claystone and loose silt.

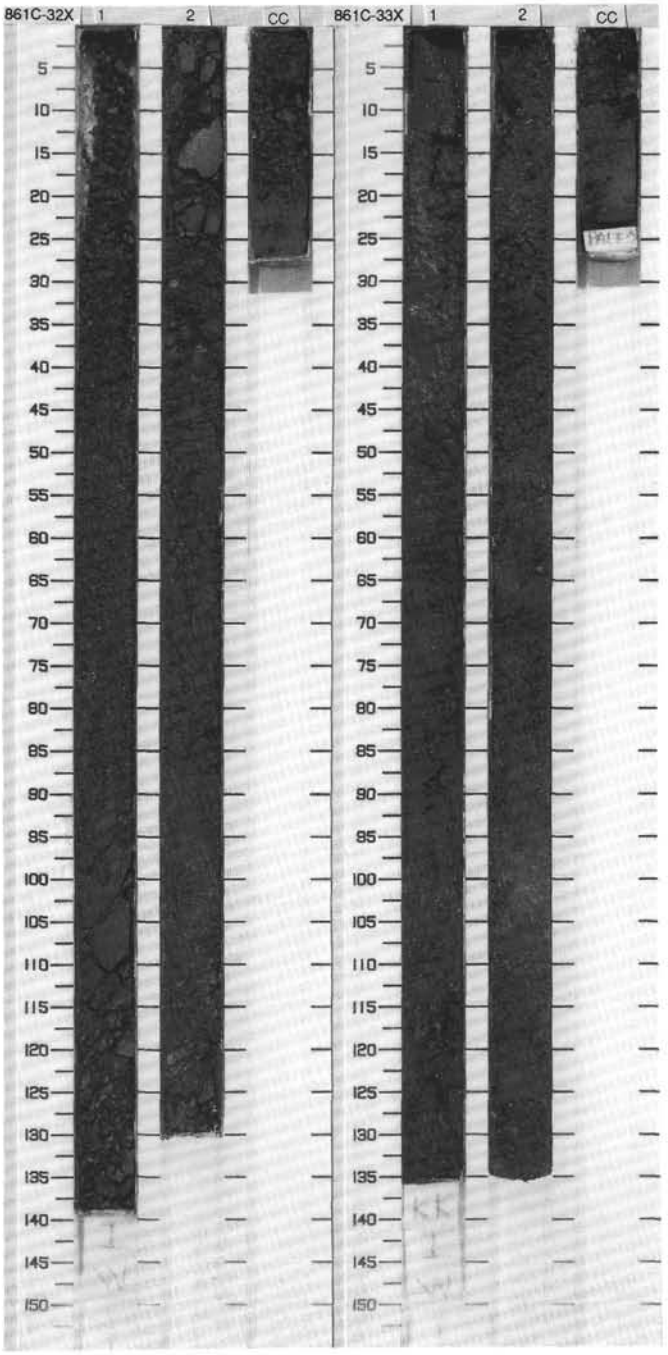


SITE 861 HOLE C CORE 32X CORED 257.0 - 266.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 CC	upper Pliocene		XXX	S S I S S M	5Y 2/1 5Y 3/2	CLAYEY SILTSTONE and CLAYEY SANDSTONE Major Lithologies: The core consists of olive black (5Y 2/1) to olive gray (5Y 3/2) CLAYEY SILTSTONE and olive gray (5Y 3/2), massive CLAYEY SANDSTONE. Minor Lithology: Granule-sized CONGLOMERATE is present in Section 2, 26-33 cm. Clasts are mostly siltstone and claystone, with some shell fragments and fish remains. Contacts are sharp and the matrix has a minor calcareous component. General Description: Clayey sandstone in Section 1, 85-130 cm and in Section 2, 0-26 cm contains some amount of micrite representing partly recrystallized calcareous microfossils.

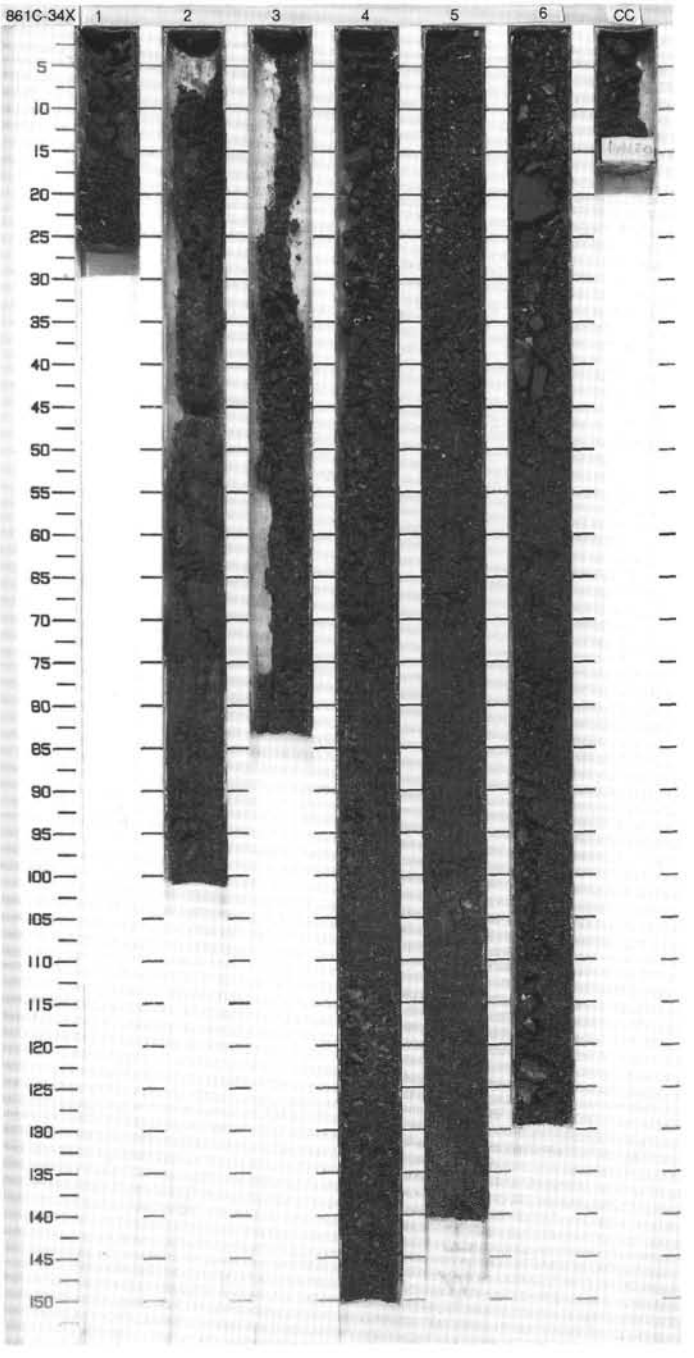
SITE 861 HOLE C CORE 33X CORED 266.6 - 276.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 CC	upper Pliocene		X V V V X	S W I S S M S	5Y 3/2 N 4	SILTY CLAYSTONE Major Lithology: The core consists of olive gray (5Y 3/2) to medium dark gray (N4), massive SILTY CLAYSTONE. The lower portion of Section 1 is slightly coarser-grained. Minor Lithology: The granule CONGLOMERATE in Section 2 is clast-supported with a gradational upper contact. Granules are predominantly well-rounded to angular clasts of siltstone and claystone.



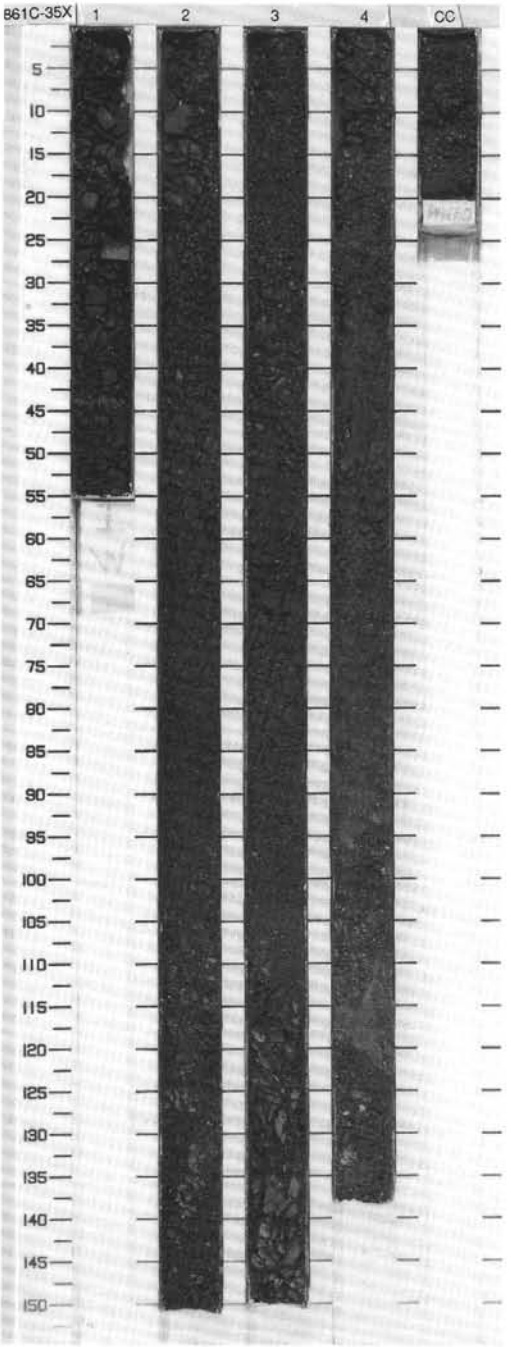
SITE 861 HOLE C CORE 34X CORED 276.2 - 285.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5		1	upper Pliocene			S S	5GY 4/1	MATRIX-SUPPORTED CONGLOMERATE Major Lithology: This core consists entirely of MATRIX-SUPPORTED CONGLOMERATE with predominantly granule-sized clasts. Several clasts are of nannofossil-rich siltstone. General Description: Although the entire core is highly disturbing by drilling, stratigraphy is preserved in Section 4, 100-150 cm, and in Sections 5 and 6. Bedding is subhorizontal. Thin, dark deformation bands are faintly visible on sawed surfaces at Section 6, 17-24 cm.
1.0		2				S S		
		3						
		4				S		
		5				S S S I		
		6					5Y 3/2	
		CC				S M		



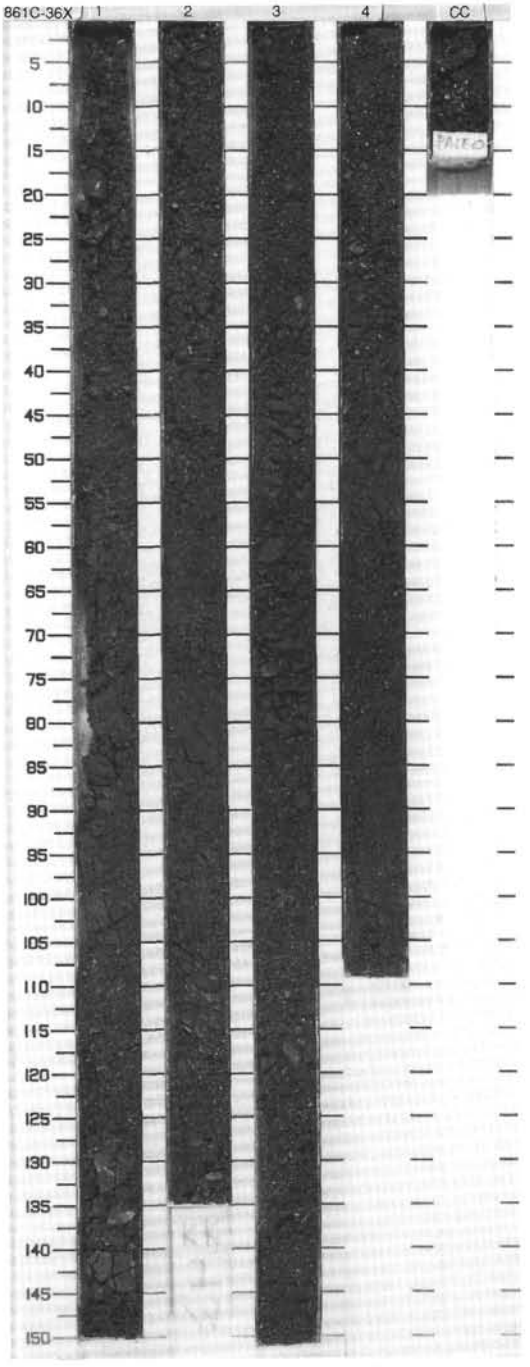
SITE 861 HOLE C CORE 35X CORED 285.9 - 295.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3 4 CC	upper Pliocene			S I S S S M	5Y 3/2	CLAYEY SILTSTONE and MATRIX-SUPPORTED CONGLOMERATE Major Lithologies: This core consists of interbedded olive gray (5Y 3/2) CLAYEY SILTSTONE and MATRIX-SUPPORTED CONGLOMERATE. Matrix of conglomerate is clayey siltstone. Clasts include grayish olive green (5GY 3/2) clayey siltstone with nannofossils, dark greenish black (5G 2/1) lithic clasts (claystones?) and shell fragments. General Description: Core is highly fractured by drilling, but consists of a mostly coherent sequence of interbedded rocks. No obvious structures are preserved, and original bedding orientation is not preserved.



SITE 861 HOLE C CORE 36X CORED 295.6 - 304.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3 4 CC	upper Pliocene			S S I W S S M	5Y 4/1 To 5Y 3/2 5Y 3/2 To 5Y 4/1	CLAYEY SILTSTONE, MATRIX-SUPPORTED CONGLOMERATE and GRAVEL Major Lithologies: This core consists of interbedded olive gray (5Y 2/1 to 5Y 4/1) CLAYEY SILTSTONE, MATRIX-SUPPORTED CONGLOMERATE, and GRAVEL. General Description: Although highly fractured by drilling, core preserves original stratigraphy. Where original bedding orientation is preserved, it is gently to moderately inclined within the core reference frame.

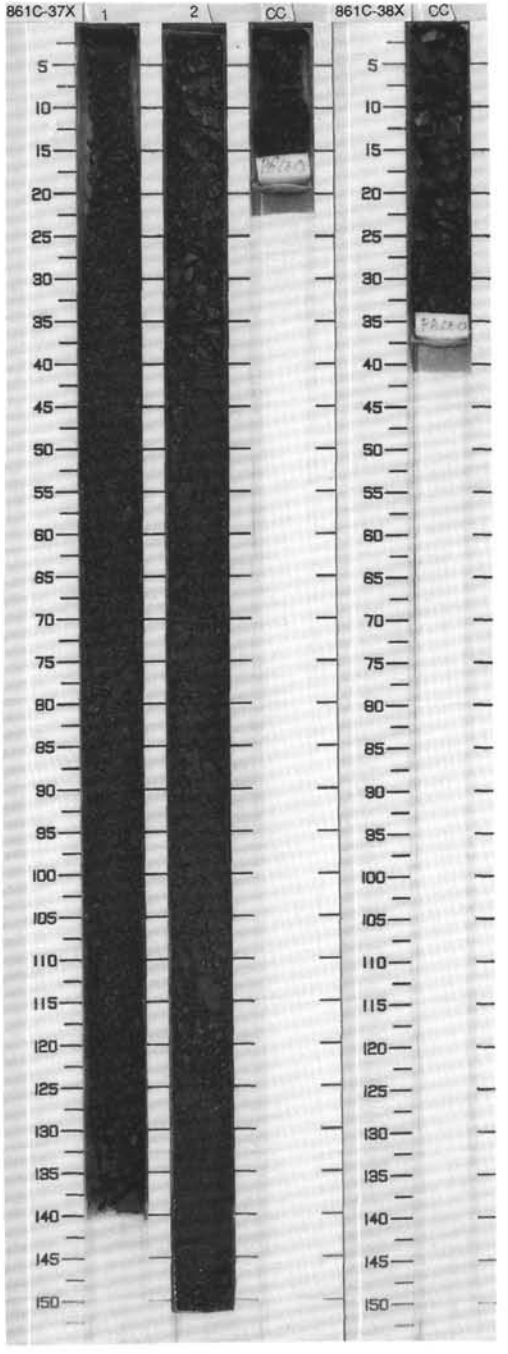


SITE 861 HOLE C CORE 37X CORED 304.9 - 314.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 CC	upper Pliocene			S I S S	5GY 2/1 to N3 5Y 3/2	MATRIX-SUPPORTED CONGLOMERATE and CLAYEY SILTSTONE TO SILTY CLAYSTONE Major Lithologies: This core mostly consists of interbedded dark gray (N3) to greenish black (5G 2/1) MATRIX-SUPPORTED CONGLOMERATE and olive gray (5Y 3/2) CLAYEY SILTSTONE TO SILTY CLAYSTONE. The MATRIX-SUPPORTED CONGLOMERATE has gravel to pebble-size clasts of silty claystone, clayey siltstone, clayey silty limestone, and shell fragments. Minor Lithology: Coarse SAND occurs in a thin interval, 25-30 cm, in Section 2. General Description: Although core is highly fractured by drilling, original stratigraphy is preserved. Bedding is subhorizontal.

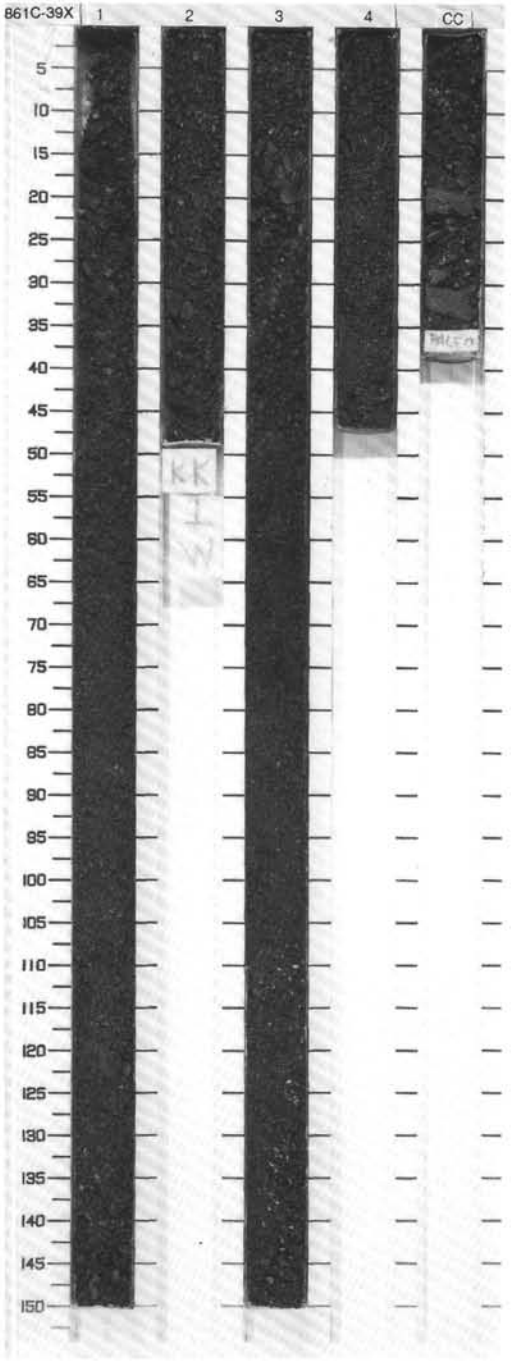
SITE 861 HOLE C CORE 38X CORED 314.5 - 324.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.2		CC	uPli			M	5Y 3/2	CLAYEY SILTSTONE Major Lithology: This core consists of olive gray (5Y 3/2) CLAYEY SILTSTONE. General Description: A small pebble of carbonate-cemented siltstone occurs at the top of the core, and is interpreted as having fallen in from higher up in the hole. No structures are preserved.



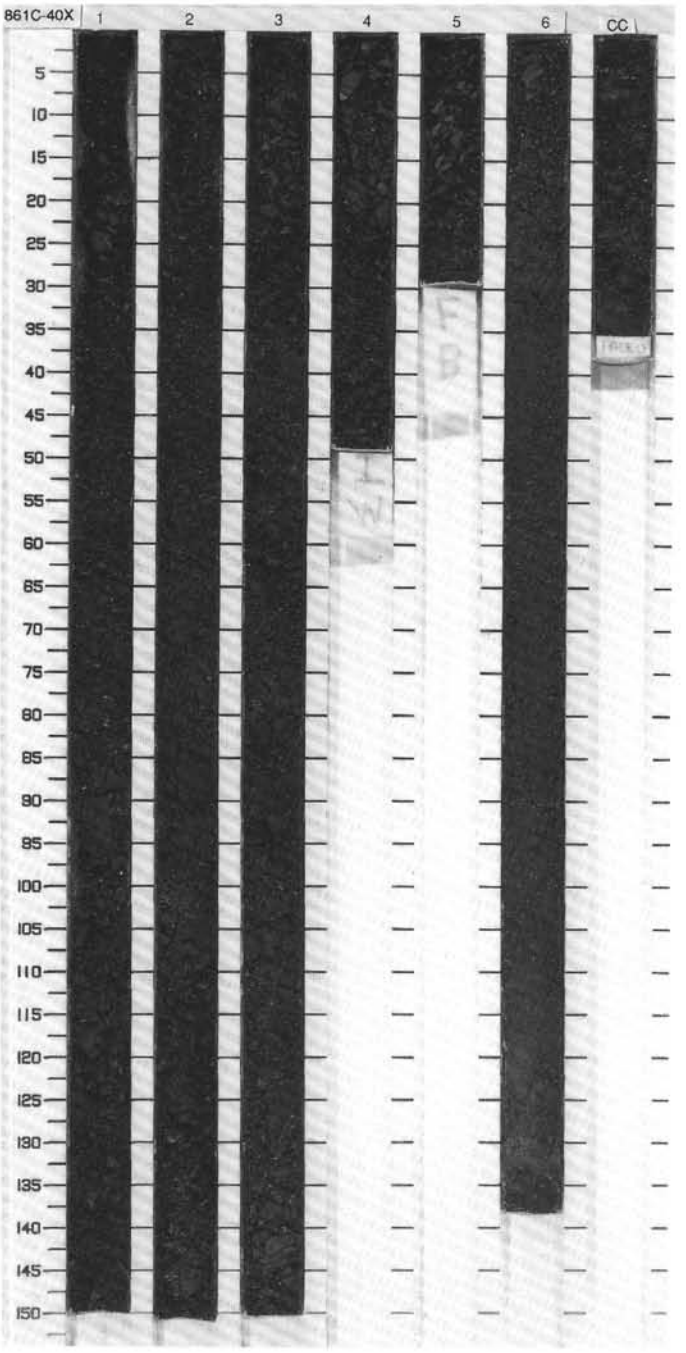
SITE 861 HOLE C CORE 39X CORED 324.2 - 333.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3 4 CC	upper Pliocene			S S W_I S M S	5Y 3/2 to N3	MATRIX-SUPPORTED CONGLOMERATE Major Lithology: This core consists entirely of olive gray (5Y 3/2) to dark gray (N3) MATRIX-SUPPORTED CONGLOMERATE, with clayey siltstone matrix, clasts up to 3 cm in diameter of siliciclastic rocks, and shell fragments. General Description: The core is highly fractured due to drilling disturbance; no original structures are preserved.



SITE 861 HOLE C CORE 40X CORED 333.9 - 343.4 mbsf

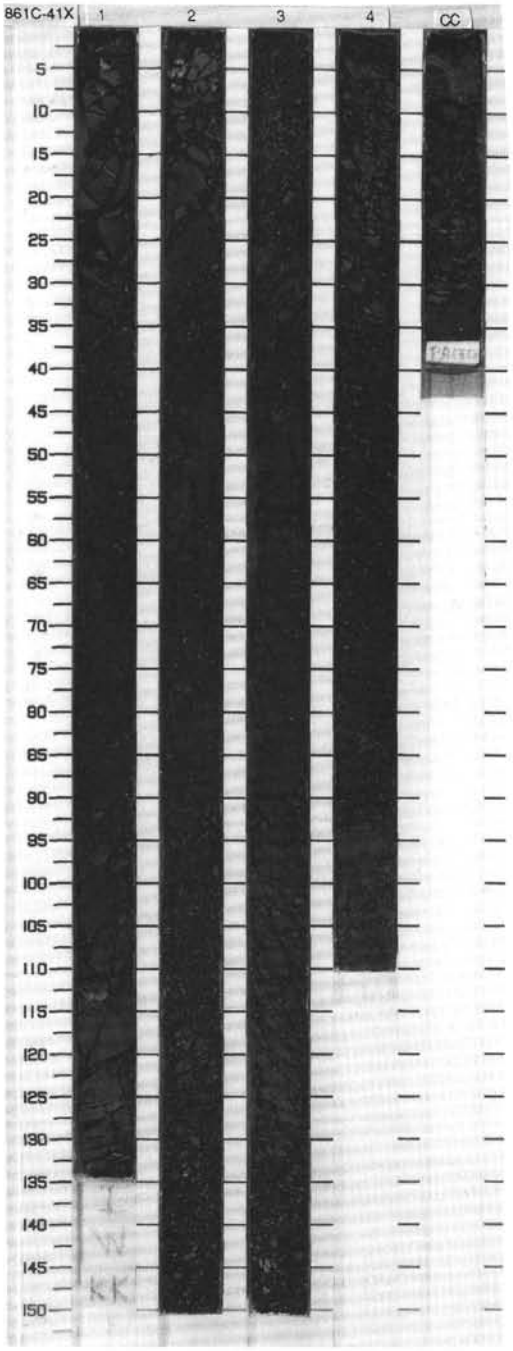
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3 4 5 6 CC	upper Pliocene			S S I W S S M	5Y 3/2 to 5Y 2/1	SILTY CLAYSTONE TO CLAYEY SILTSTONE, MATRIX-SUPPORTED CONGLOMERATE and GRAVEL Major Lithologies: This core mostly consists of interbedded olive gray (5Y 3/2) to dark greenish black (5Y 2/1) SILTY CLAYSTONE TO CLAYEY SILTSTONE, MATRIX-SUPPORTED CONGLOMERATE, and GRAVEL. Minor Lithology: A few thin beds of dark gray (N3) to olive gray (5Y 3/2) SANDSTONE are found interbedded with the major lithologies in Sections 2, 3, and 6. General Description: The core is highly fractured by drilling disturbance. Where preserved bedding is gently to moderately inclined, original stratigraphy is preserved.



SITE 861 HOLE C CORE 41X CORED 343.4 - 353.1 mbsf

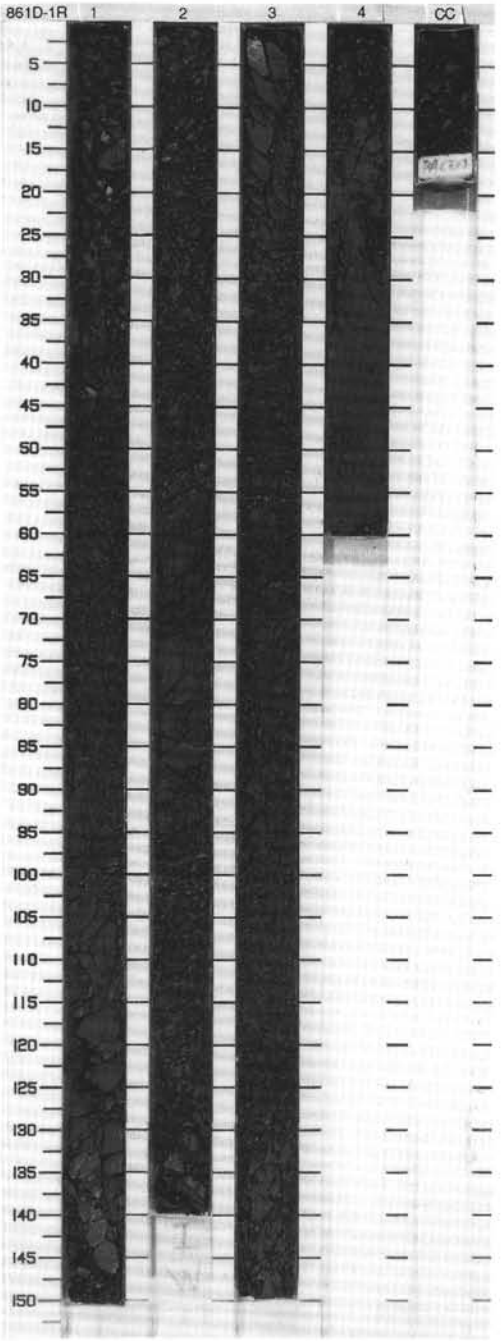
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3 4 CC	upper Pliocene			I W S S M	5Y 3/2 to N3	CLAYEY SILTSTONE TO SILTY CLAYSTONE and MATRIX-SUPPORTED CONGLOMERATE Major Lithologies: This core mostly consists of olive gray (5Y 3/2 to 5Y 2/1) to dark gray (N3) interbedded CLAYEY SILTSTONE TO SILTY CLAYSTONE, and MATRIX-SUPPORTED CONGLOMERATE. The MATRIX-SUPPORTED CONGLOMERATE has gravel to pebble size clasts and grades locally into matrix-poor and clast-supported gravel (Section 1, 60-73 cm). Minor Lithology: A minor interbed of dark gray (N3) SANDSTONE appears in Section 3, 40-45 cm, and two beds of olive gray (5Y 3/2) SANDSTONE appear at the base of CC, 31-40 cm. General Description: Although the core is moderately to highly fractured, rare gently dipping bedding is preserved. Sparse deformation bands occur at Section 3, 60-70 cm and 90-95 cm.

DRILLED 0.0-342.3 mbsf



SITE 861 HOLE D CORE 1R CORED 342.3 - 351.9 mbsf

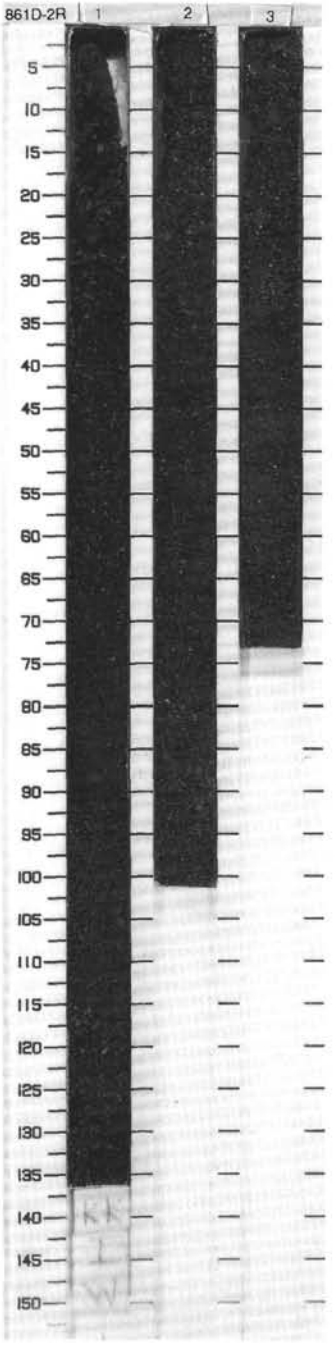
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3 4 CC	upper Pliocene			S S I S S M	5Y 3/2 to 5G 2/1	SILTY CLAYSTONE TO CLAYEY SILTSTONE and MATRIX-SUPPORTED CONGLOMERATE Major Lithologies: This core consists of olive gray (5Y 3/2 to 5GY 2/1) to dark greenish black (5G 2/1) gradationally interbedded SILTY CLAYSTONE TO CLAYEY SILTSTONE and MATRIX-SUPPORTED CONGLOMERATE. A few dispersed gravel size clasts and shell fragments occur within the SILTY CLAYSTONE TO CLAYEY SILTSTONE, and pyrite concretions occur in Section 2, 65-85 cm. Minor Lithology: A clast of medium gray (N6) tuff occurs at the top of Section 4, 7-9 cm. General Description: Rare isolated deformation bands occur in Sections 3 and 4. A possible intraformational breccia cut by two fracture sets occurs at Section 4, 55-60 cm.



SITE 861 HOLE D CORE 2R CORED 351.9 - 361.6 mbsf

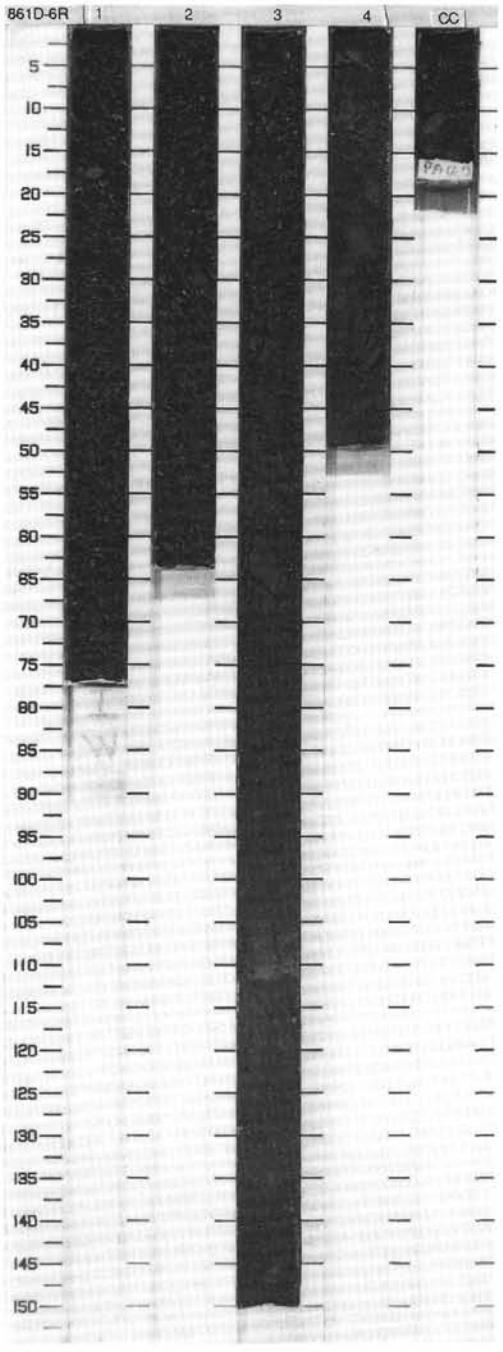
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3	upper Pliocene		XXX	S S S W S S M	5Y 2/1	CLAYEY SILTSTONE TO SILTY CLAYSTONE WITH NANNOFOSSILS Major Lithology: This core consists mostly of gradationally interbedded olive gray (5Y 2/1) CLAYEY SILTSTONE TO SILTY CLAYSTONE WITH NANNOFOSSILS. Nannofossils constitute from 0% to 15%. Minor Lithology: A small bed of olive gray (5Y 3/1) NANNOFOSSIL CHALK occurs in Section 2, 89-93 cm. General Description: Bedding is gently to moderately inclined.

861D-3R THROUGH 5R NO RECOVERY



SITE 861 HOLE D CORE 6R CORED 390.4 - 400.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5		1	upper Pliocene	P	XX	S	5Y 3/2 To 5Y 4/1	SILTY CLAYSTONE TO CLAYEY SILTSTONE Major Lithology: This core consists of olive gray (5Y 3/2 to 5Y 4/1) SILTY CLAYSTONE TO CLAYEY SILTSTONE. Minor Lithology: Sections 2 and 3 contain minor interbeds of CLAYEY SILTSTONE WITH NANNOFOSSILS. General Description: Moderate bedding may be locally present. Disseminated pyrite and pyrite concretions occur in Section 3. Rare, isolated deformation bands <1 mm occur in Sections 2 and 4. At Section 2, 26-30 cm, two sets of deformation bands occur.
1.0		2				I		
		3		Ⓟ		S		
		4				S		
		CC			X	M		



SITE 861 HOLE D CORE 7R CORED 400.1 - 409.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5, 1.0		1, 2, 3, CC	upper Pliocene			S, S, W I, S, S, M	5Y 3/2; 5Y 3/1; 5Y 3/2 to 5Y 3/1	CLAYEY SILTSTONE TO SILTY CLAYSTONE WITH NANNOFOSSILS

Major Lithology:
This core consists entirely of interbedded olive gray (5Y 3/2 to 5Y 3/1) CLAYEY SILTSTONE TO SILTY CLAYSTONE WITH NANNOFOSSILS. Nannofossil content ranges from 15% to 30%.

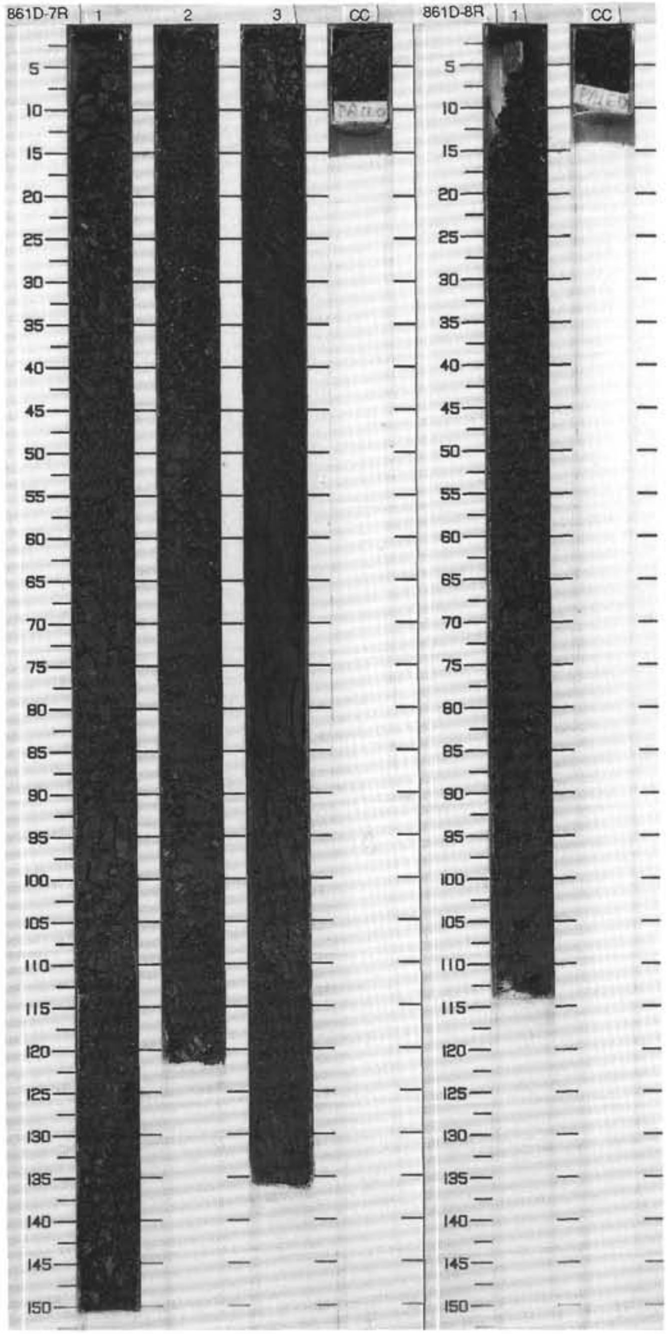
General Description:
Rare isolated deformation bands are visible on some sawed surfaces.

SITE 861 HOLE D CORE 8R CORED 409.8 - 419.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5, 1.0		1, CC	upper Pliocene	◇		S, M	5Y 3/2	SILTY CLAYSTONE

Major Lithology:
The core consists of structureless fragments of olive gray (5Y 3/2) SILTY CLAYSTONE.

General Description:
A pebble of meta-igneous or meta-sedimentary rock which occurs at the top of Section 1 may be a dropstone.

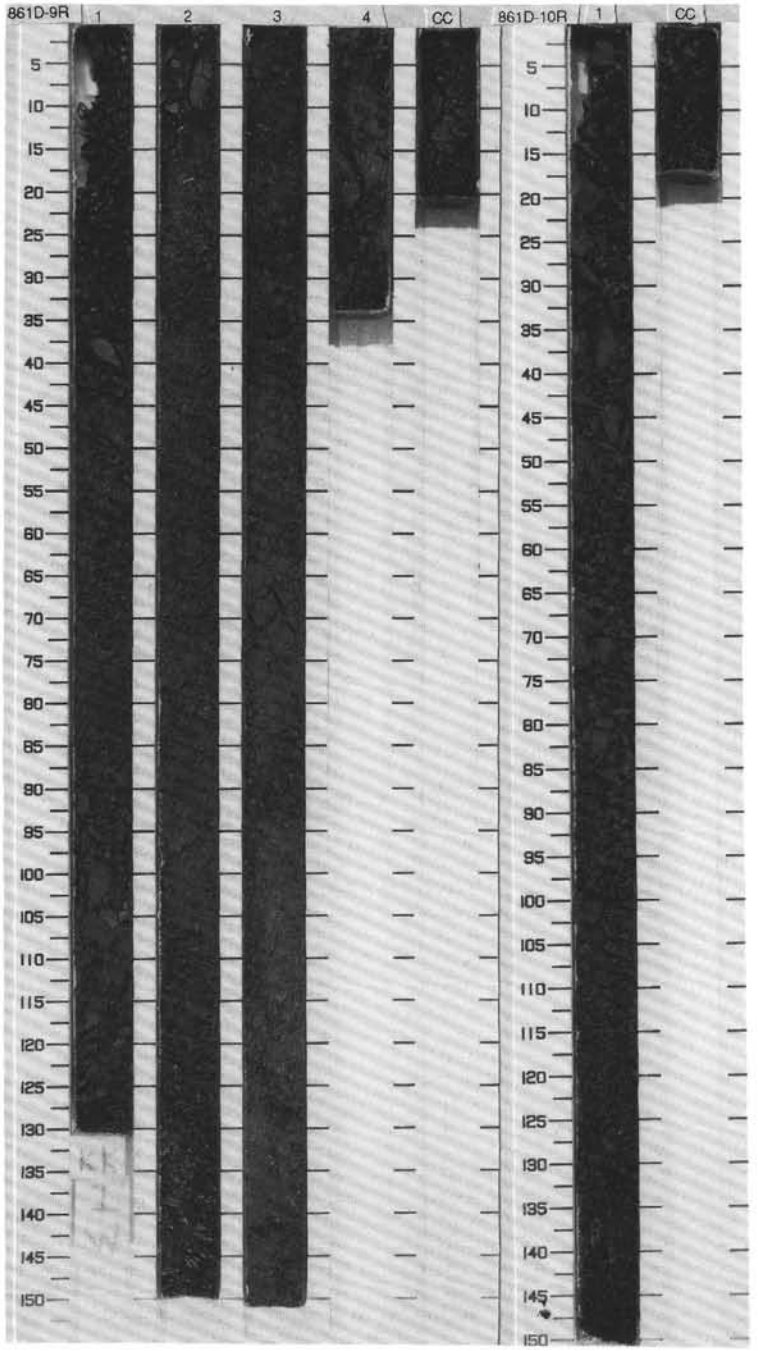


SITE 861 HOLE D CORE 9R CORED 419.4 - 429.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3 4 CC	upper Pliocene	Ⓟ		S S I W S M	5Y 3/2 to 5Y 2/1	SILTY CLAYSTONE Major Lithology: The core consists of fragmented, olive gray (5Y 3/2) and olive black (5Y 2/1) SILTY CLAYSTONE. General Description: Dark seams are present in the core.

SITE 861 HOLE D CORE 10R CORED 429.1 - 438.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 CC	upper Pliocene	Ⓟ		S S M	5Y 4/1 5Y 3/2	CLAYEY SILTSTONE WITH NANNOFOSSILS and SILTY CLAYSTONE Major Lithologies: The core consists of fragments of olive gray (5Y 3/2) CLAYEY SILTSTONE WITH NANNOFOSSILS and olive gray (5Y 4/1) SILTY CLAYSTONE. General Description: Dark seams are present in the core.

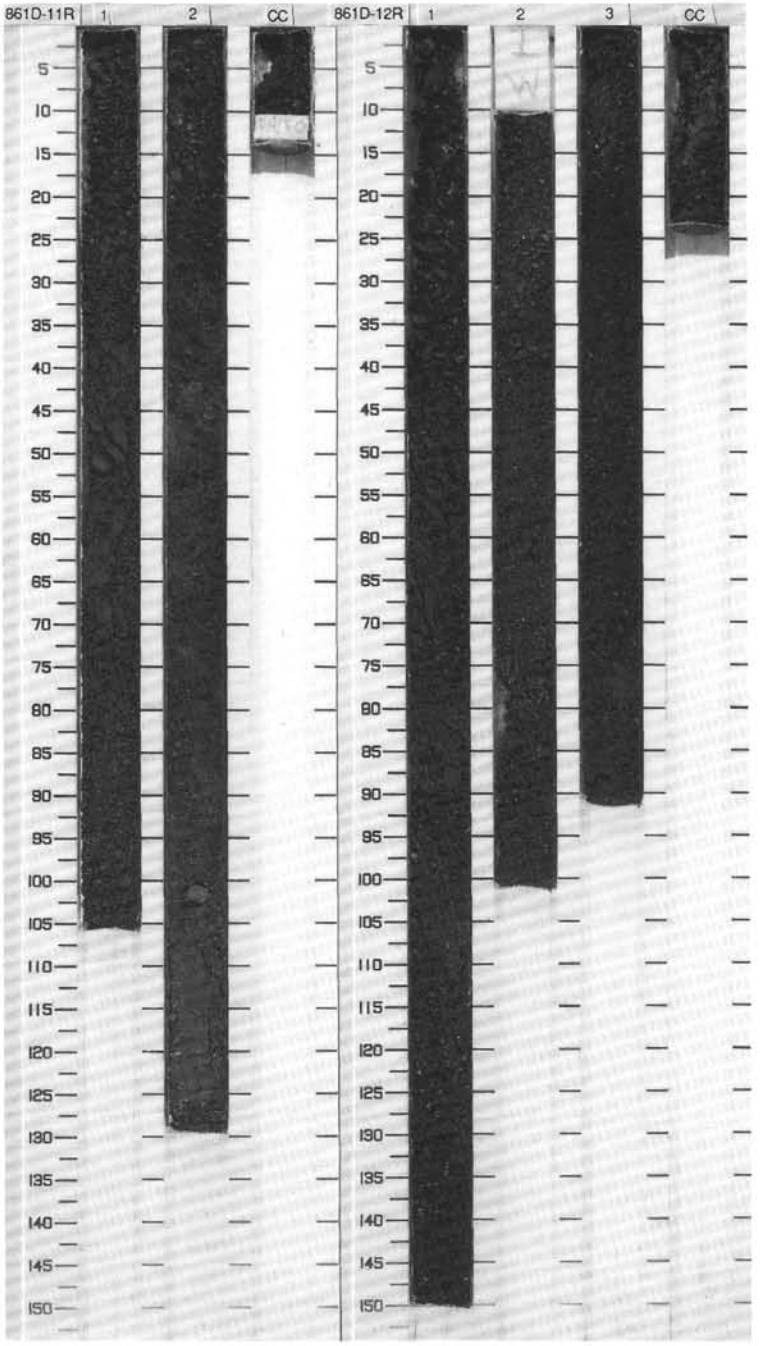


SITE 861 HOLE D CORE 11R CORED 438.8 - 448.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 CC	upper Pliocene			S I W S M	5GY 2/1 to 5Y 2/1	SILTY CLAYSTONE Major Lithology: The core consists of greenish black (5GY 2/1) and olive black (5Y 2/1) SILTY CLAYSTONE. General Description: The core contains dark seams.

SITE 861 HOLE D CORE 12R CORED 448.5 - 458.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3 CC	upper Pliocene			S S I S M	5Y 3/2 5G 2/1 5Y 3/2	SILTY CLAYSTONE and CLAYSTONE Major Lithologies: The core consists of olive gray (5Y 3/2) SILTY CLAYSTONE and greenish black (5G 2/1) CLAYSTONE with a small proportion (<10%) of calcareous microfossils. Some coherent pieces show massive texture. Minor Lithologies: Calcareous concentrations occur in Section 2, 38-44 cm and Section 3, 12-14 cm.

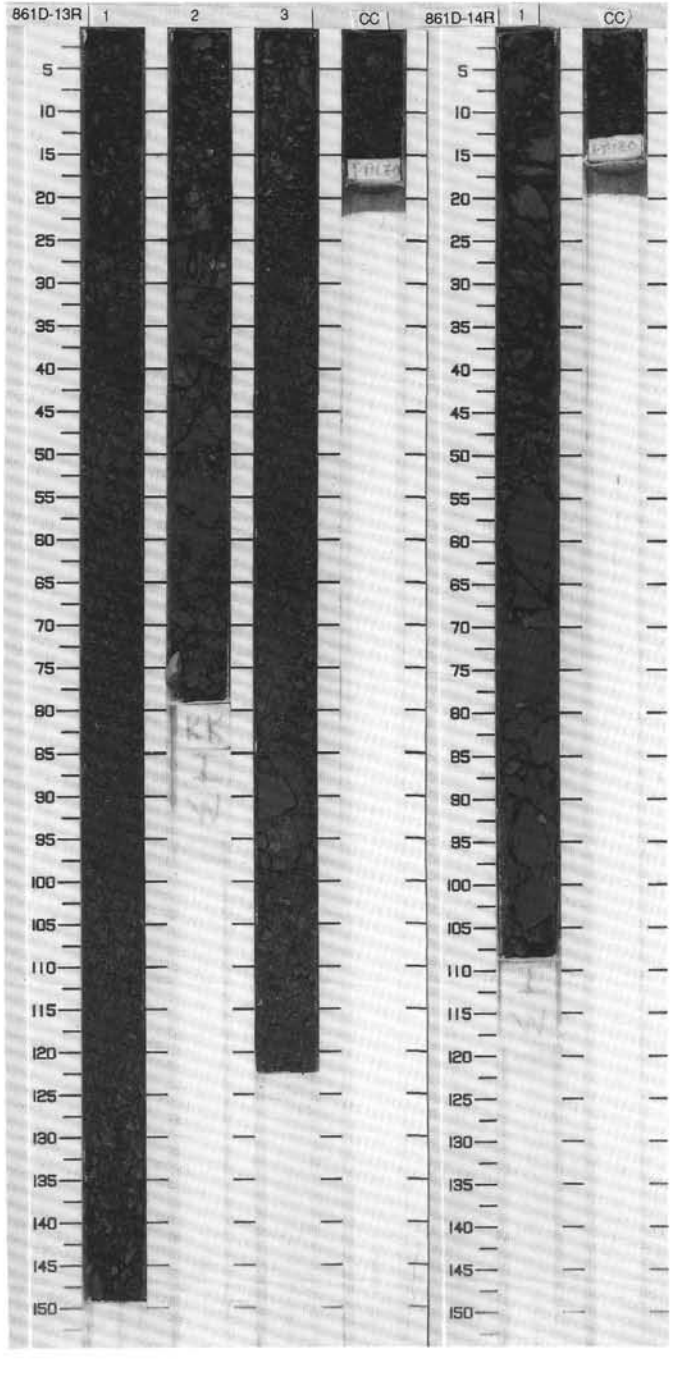


SITE 861 HOLE D CORE 13R CORED 458.1 - 467.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5, 1.0		1, 2, 3, CC	upper Pliocene	P, P, P, P, P, P, P	I	S, S, S, S, W, S S, M	5Y3/1 to 5G 3/1; 5Y 3/2; 5Y3/1 to 5G 3/1	SILTY CLAYSTONE TO CLAYEY SILTSTONE Major Lithology: This core consists mostly of interbedded olive gray (5Y 3/1) to dark greenish gray (5G 3/1) SILTY CLAYSTONE TO CLAYEY SILTSTONE. Minor Lithology: Olive gray (5Y 3/2) NANNOFOSSIL SILTSTONE occurs in Section 1, 102-150 cm. A dark green fragment of tuff is present in Section 3 at 90 cm. General Description: Disseminated pyrite occurs throughout Sections 2 and 3. The entire core consists of broken formation. Multiple sets of deformation bands define lithologic boundaries that are in turn offset by up to two other sets of deformation bands.

SITE 861 HOLE D CORE 14R CORED 467.7 - 476.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5, 1.0		1, CC	upper Pliocene	P, P, P, P, P	I	S, I, M	5Y 3/2	SILTY CLAYSTONE TO CLAYEY SILTSTONE Major Lithology: This core is composed entirely of olive gray (5Y 3/2) SILTY CLAYSTONE TO CLAYEY SILTSTONE with disseminated pyrite. General Description: The entire core consists of broken formation, and no primary bedding surfaces are preserved. One set of deformation bands defines lithologic boundaries and is offset by up to two later sets of deformation bands.



SITE 861 HOLE D CORE 15R CORED 476.3 - 486.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 CC	upper Pliocene		X V X XXXXX X	I S S M	N3	CLAYEY SILTSTONE Major Lithology: This core consists of dark gray (N3) CLAYEY SILTSTONE. General Description: The core consists of broken formation. No primary bedding surfaces are preserved. Lithologic boundaries are defined by a set of deformation bands which are in turn offset by at least one later set of deformation bands.

SITE 861 HOLE D CORE 16R CORED 486.0 - 496.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3 CC	upper Pliocene		X X X V	S S I W S W M	5Y 3/2	SILTY CLAYSTONE and CLAYSTONE Major Lithologies: The core consists of olive gray (5Y 3/2), massive SILTY CLAYSTONE and CLAYSTONE. Minor Lithology: A massive SANDSTONE bed in Section 1, 37-51 cm, has a diffuse deformed lower contact, arising from dewatering. A sand-rich interval occurs in Section 1, 102-106 cm. General Description: The core consists of broken formation; most lithologic boundaries are tectonic rather than primary sedimentary boundaries. At least 2 sets of deformation bands are present. A normal fault occurs in Section 3, 18-22 cm.