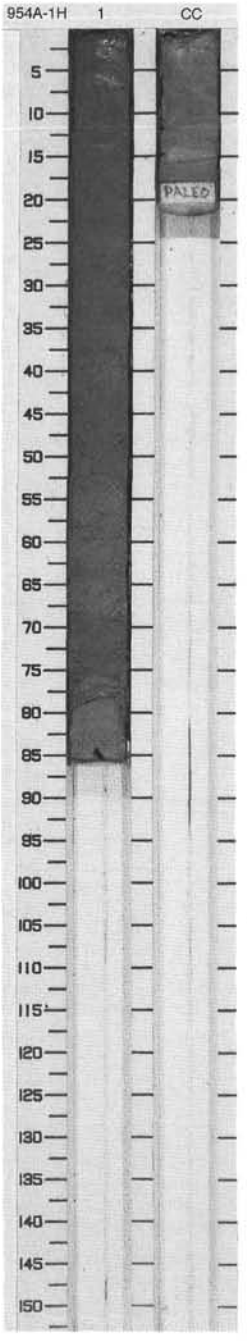
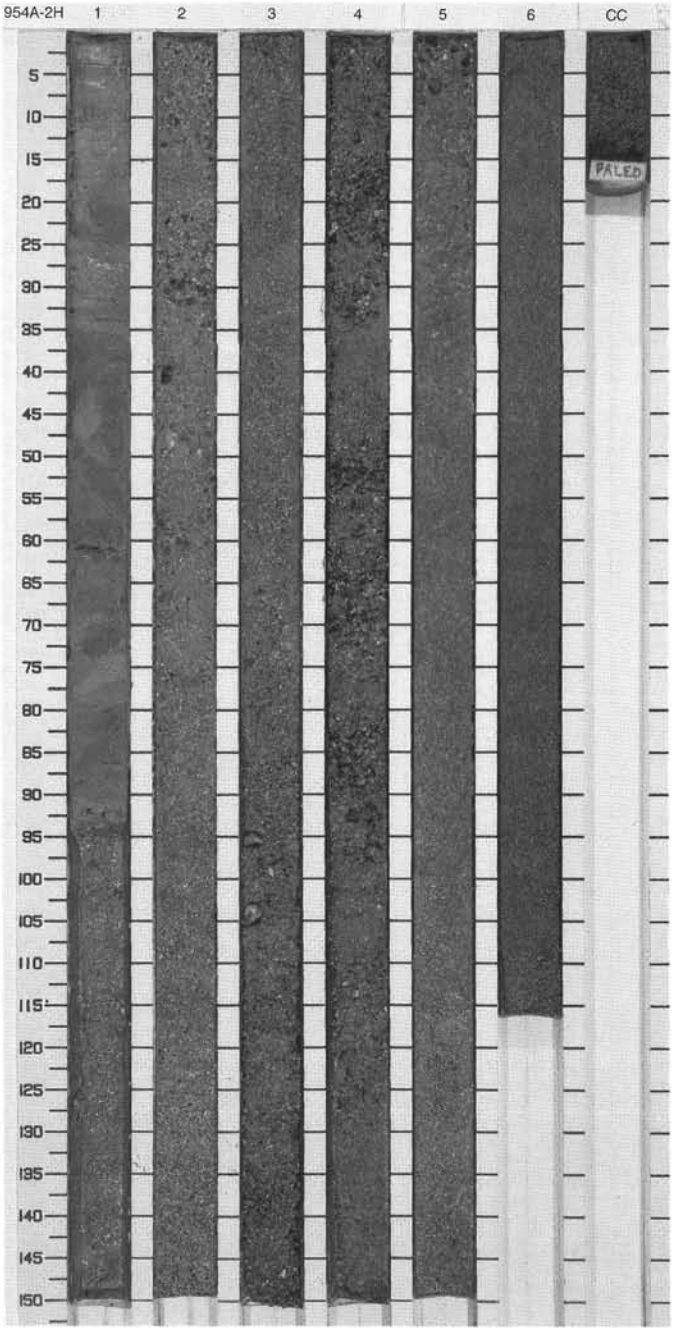
SITE 954 HOLE A CORE 1H CORED 0.0 - 1.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1	Pleist.			O	10YR 4/2	CLAYEY FORAMINIFER NANNOFOSSIL OOZE and NANNOFOSSIL OOZE WITH CLAY Major Lithologies: This core consists of interbedded CLAYEY FORAMINIFER NANNOFOSSIL OOZE and NANNOFOSSIL OOZE WITH CLAY. Slight bioturbation throughout. Minor Lithology: One interbed of SANDY CLAY-MIXED SEDIMENT occurs in Section 1, 75–78 cm.
		CC				T S M		



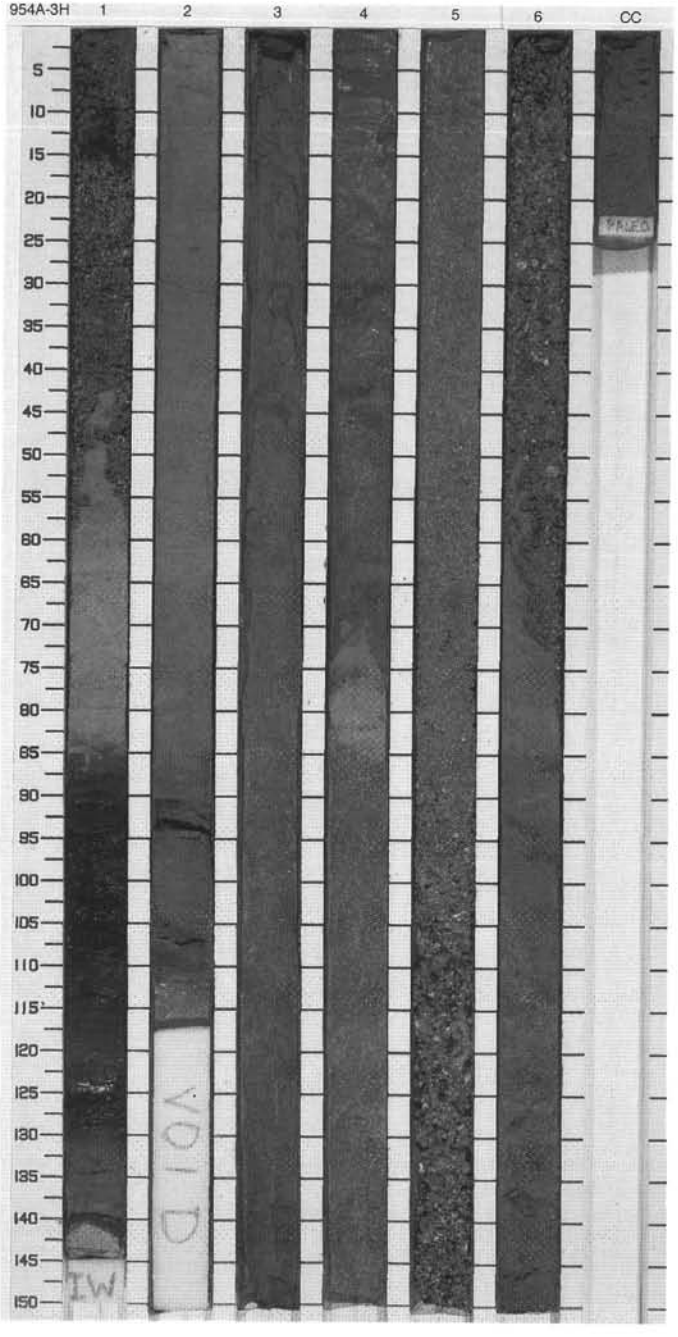
SITE 954 HOLE A CORE 2H CORED 1.0 - 10.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–8		1–6, CC	Pleistocene	A; F		T; O; T; T M S	2.5Y 2.5/1 to 2.5Y N4/0	CLAYEY NANNOFOSSIL OOZE and BIOCLASTIC SAND WITH VOLCANIC LITHICS Major Lithologies: This core consists of CLAYEY NANNOFOSSIL OOZE and interbedded BIOCLASTIC SAND WITH VOLCANIC LITHICS. Bioclastic fragments (80%) consist of whole and broken bivalve, gastropods, coral, and other calcareous debris. Volcanic lithic fragments (20%) consist of approximately 70% basaltic and 30% phonolitic rock fragments.



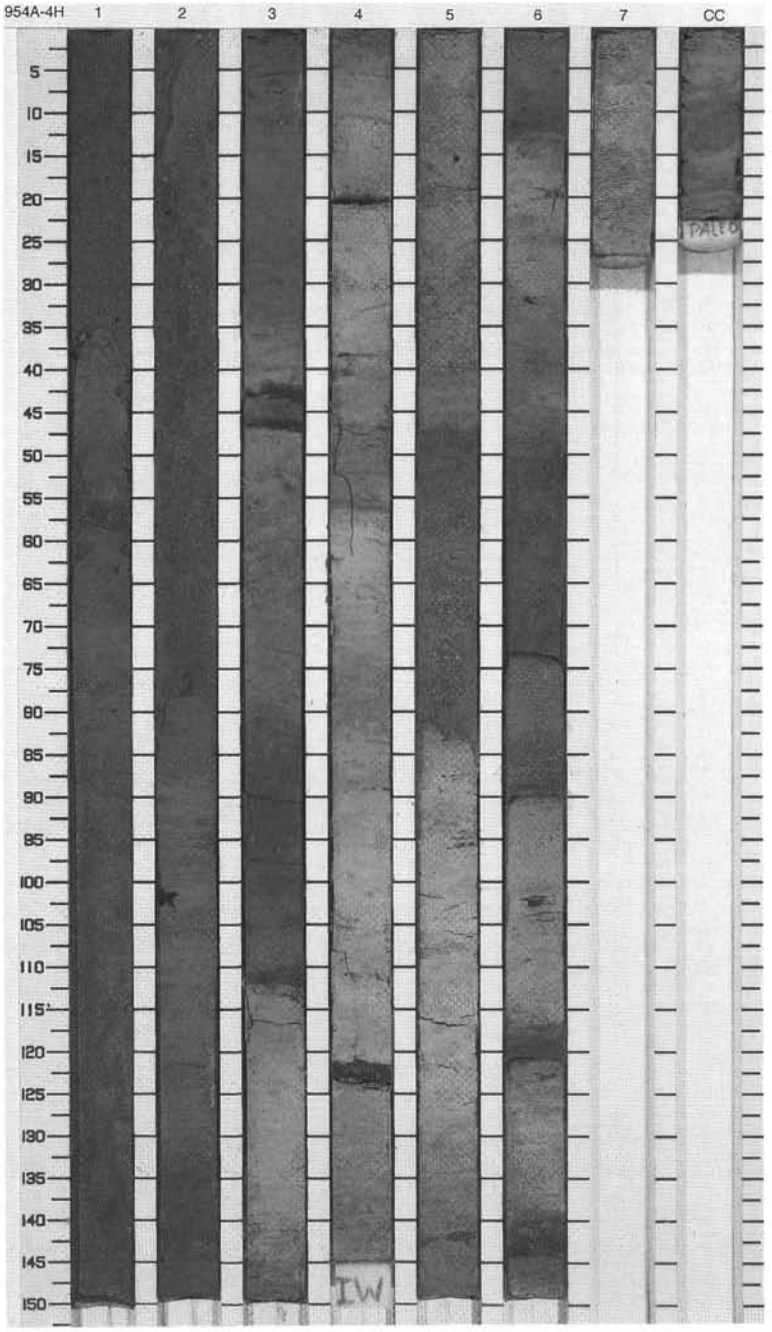
SITE 954 HOLE A CORE 3H CORED 10.5 - 20.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9	Void; volcaniclastic sand	1–6, CC	Pleistocene	A; F; F; F		S; S; S; T	5Y 3/1 to 10Y 3/1; 2.5Y N4/0; 5Y 3/1; 5Y 3/1 to 2.5Y N5/0	BIOCLASTIC SAND WITH VOLCANIC LITHICS, NANNOFOSSIL OOZE WITH FORAMINIFERS, and CALCAREOUS SILT WITH LITHICS Major Lithologies: This core consists of interbedded BIOCLASTIC SAND WITH VOLCANIC LITHICS, CALCAREOUS SILT WITH LITHICS, and NANNOFOSSIL OOZE WITH FORAMINIFERS. Units are thin to thick bedded, poorly sorted, and commonly have bioturbated tops and sharp bases. Sands are medium to coarse grained. Bioclastic fragments (80%–90%) consist of whole and broken bivalve, gastropod, coral, and other fossil debris. Volcanic lithics (10%–20%) consist of approximately 70% basaltic and 30% phonolitic rock fragments and are subangular to subround. Minor Lithologies: VITRIC ASH, LITHIC VITRIC CRYSTAL ASH, and LITHIC VITRIC ASH are interbedded within the major lithologies and occur in Section 1, 84–98, 89–129, and 140–141 cm and in Section 2, 0–80 cm.



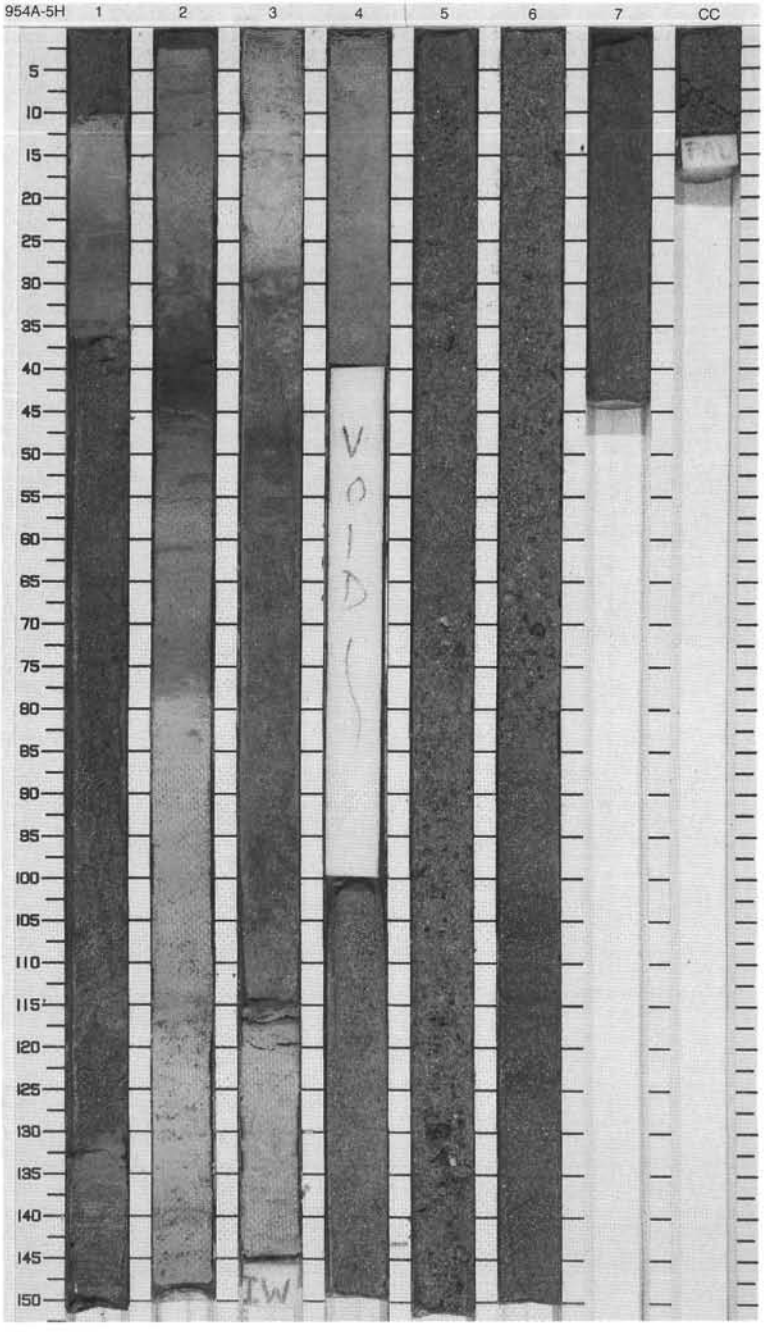
SITE 954 HOLE A CORE 4H CORED 20.0 - 29.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1	Pleistocene				2.5Y 4/2 to 5Y 3/1	CLAYEY NANNOFOSSIL OOZE and CALCAREOUS SAND WITH LITHICS Major Lithologies: CLAYEY NANNOFOSSIL OOZE occurs as moderately bioturbated beds, sometimes silty. In some beds it grades downward to dark gray silt. CALCAREOUS SAND WITH LITHICS forms moderately sorted, normally graded, medium to coarse sand composed mostly of broken calcareous bioclasts (shell fragments) and minor basaltic lithics. Minor Lithologies: PUMICE SAND occurs as well-sorted coarse sand and contains pumice, minor basaltic lithics, and bioclasts in Section 3, 41–43 cm. CLAYEY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS occurs in Section 3, 81–101 cm. BIOCLASTIC LITHIC SAND occurs as massive, poorly sorted, medium- to coarse-grained layers with sharp bases in Section 5, 48–84 cm, Section 6, 49–74 and 87–90 cm. A VOLCANIC ASH LAYER occurs in Section 4, at 20 cm. General Description: This core consists of alternating medium-bedded units of the major lithologies with thin to medium beds of the minor lithologies.
		2						
		3		A		O I		
		4						
		5						
		6				T		
		7						
		CC				M		



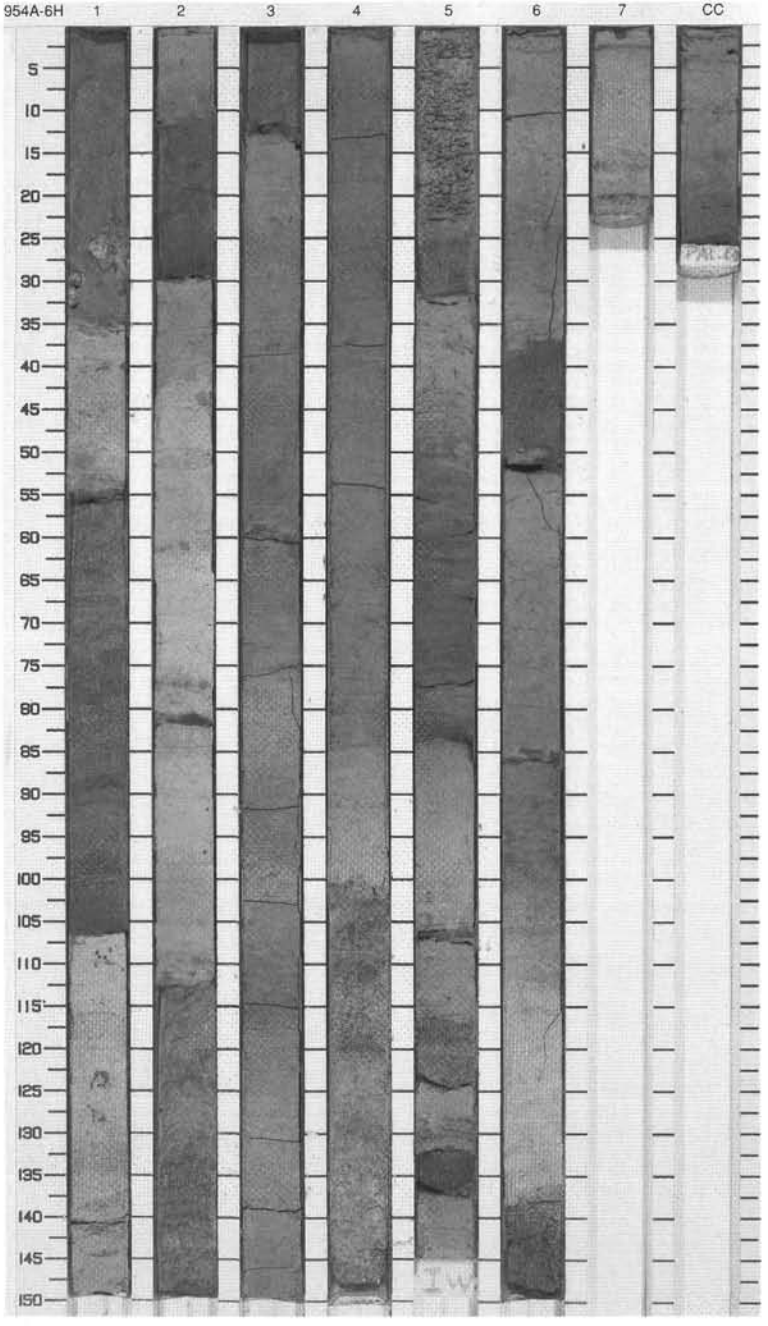
SITE 954 HOLE A CORE 5H CORED 29.5 - 39.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9	Void	1–7, CC	Pleistocene	F; A; F		O; T; M	2.5Y 5/2 to 5Y 5/1	CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY and CALCAREOUS SAND WITH LITHICS Major Lithologies: CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS occurs as thin to medium bedded, moderately bioturbated, and sometimes silty. CALCAREOUS SAND WITH LITHICS forms massive, very poorly sorted, fine to pebbly grain deposits and consists dominantly of broken shell fragments and bioclasts with minor basaltic lithics, pumice, and feldspar crystals. Minor Lithologies: NANNOFOSSIL OOZE WITH GLASS SHARDS occurs in Section 2, at 44 cm. FINE VOLCANIC ASH occurs in Section 2, 24–46 cm. General Description: This core consists of interbedded CALCAREOUS SAND WITH LITHICS, CALCAREOUS PEBBLY SAND, and CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS. The sands form massive beds that are sometimes slightly graded. NANNOFOSSIL OOZE beds are slightly to moderately bioturbated.



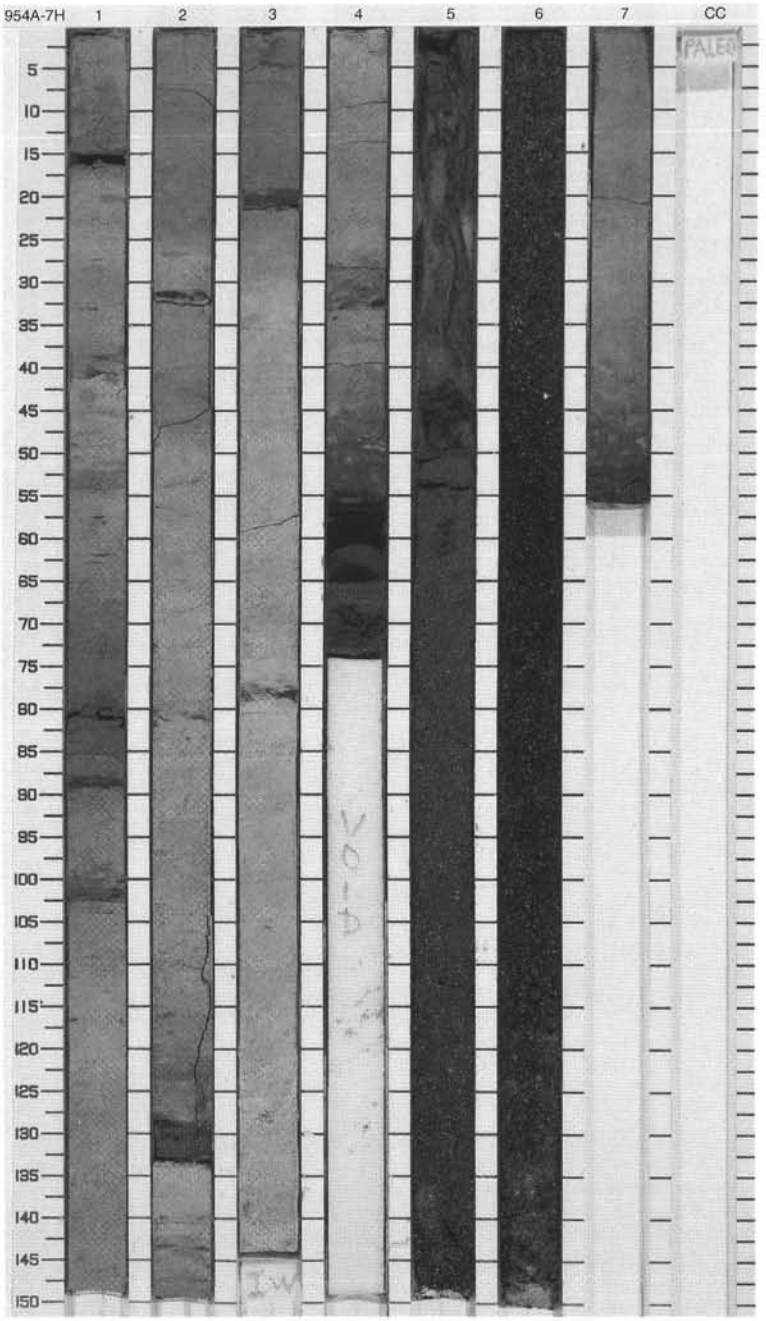
SITE 954 HOLE A CORE 6H CORED 39.0 - 48.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1–6, 7, CC	Pleistocene	F, A		S, T, O, I	5Y 4/1; 2.5Y 5/2; 5Y 4/1; 2.5Y 4/2; 5Y 5/1; 2.5Y 4/2	CLAYEY NANNOFOSSIL OOZE and CALCAREOUS SAND WITH LITHICS Major Lithologies: CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY occurs as thin to medium bedded, moderately bioturbated, and sometimes silty. CALCAREOUS SAND WITH LITHICS forms massive, very poorly sorted, fine- to coarse-grained deposits which are sometimes graded and consist dominantly of broken shell fragments and bioclasts with minor basaltic lithics, pumice, and feldspar crystals. Minor Lithologies: VITRIC COARSE ASH occurs as a well-sorted bed with sand-sized pumice clasts in Section 5, 74–77 cm. General Description: This core consists of interbedded CALCAREOUS SAND WITH LITHICS and NANNOFOSSIL OOZE WITH FORAMINIFERS. The sands form massive beds that are sometimes slightly graded and thin interbeds within the NANNOFOSSIL OOZE. NANNOFOSSIL OOZE beds are slightly to moderately bioturbated.



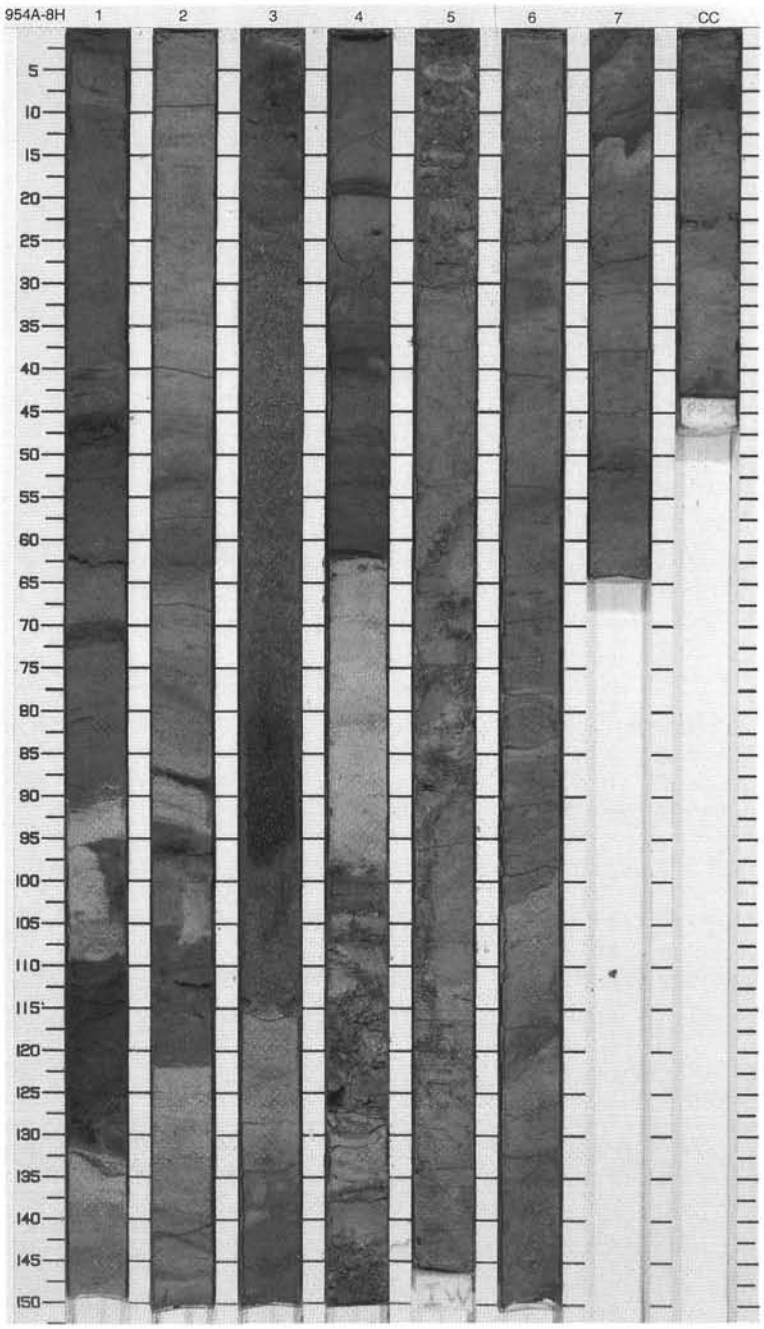
SITE 954 HOLE A CORE 7H CORED 48.5 - 58.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9	Void	1–7 CC	Pleistocene	F	○○○	S, I, S, F T, M	2.5Y 5/2 to 5Y 3/2; 5Y 2/1; 2.5Y 4/2	NANNOFOSSIL OOZE WITH FORAMINIFERS and CALCAREOUS SAND WITH LITHICS Major Lithologies: CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY occurs as thin to medium bedded, moderately bioturbated, and sometimes silty. CALCAREOUS SAND WITH LITHICS forms massive, very poorly sorted, fine to pebbly grain deposits and consists dominantly of broken shell fragments and bioclasts with minor basaltic lithics, pumice, and feldspar crystals. Minor Lithologies: NANNOFOSSIL CLAY MIXED SEDIMENT occurs in Section 1, 85–89 cm, Section 3, 0–5 cm, Section 4, 45–56 cm, Section 5, 51–53 cm, Section 7, 26–32.5, 40–60.5, and 60.5–65 cm. CRYSTAL LITHIC SILT occurs in Section 2, 31–31.5 cm. CRYSTAL LITHIC SAND occurs in Section 3, 76–80 cm. General Description: This core consists of interbedded CALCAREOUS SAND WITH LITHICS and NANNOFOSSIL OOZE WITH FORAMINIFERS. The sands form massive beds that are sometimes slightly graded. NANNOFOSSIL OOZE beds are slightly to moderately bioturbated.



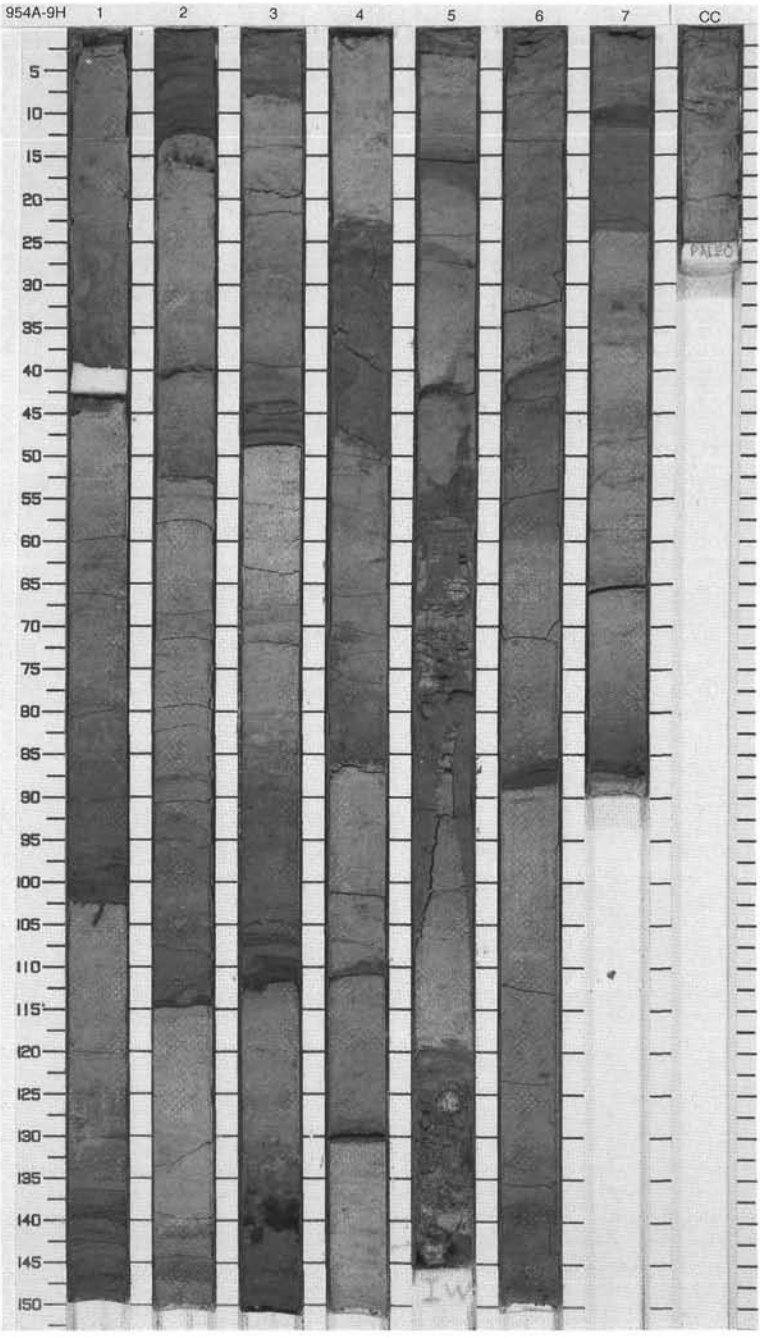
SITE 954 HOLE A CORE 8H CORED 58.0 - 67.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1	Pleistocene			S	2.5Y 4/2	NANNOFOSSIL MIXED SEDIMENT, CLAYEY NANNOFOSSIL OOZE, and CRYSTAL LITHIC SAND WITH FORAMINIFERS Major Lithologies: NANNOFOSSIL MIXED SEDIMENT occurs as moderately bioturbated, fine to silty beds which sometimes contain foraminifers and shell fragments. CLAYEY NANNOFOSSIL OOZE occurs as thin to medium bedded, moderately biotrubated, and sometimes silty. CRYSTAL LITHIC SAND WITH FORAMINIFERS form massive, very poorly sorted, fine to coarse grain deposits and consists dominantly of basaltic lithics, pumice, and feldspar crystals with minor broken shell fragments and bioclasts. Thin beds display parallel lamination. Minor Lithologies: VITRIC FINE ASH with sharp base occurs in Section 7, 11.5–13 cm. General Description: This core consists of interbedded NANNOFOSSIL MIXED SEDIMENT, NANNOFOSSIL OOZE, and CRYSTAL LITHIC SAND WITH FORAMINIFERS. The sands form massive beds that are sometimes slightly graded.
		2						
		3				T	5Y 2/1	
		4		F				
		5					2.5Y 3/2	
		6				O I		
		7						
		CC						



SITE 954 HOLE A CORE 9H CORED 67.5 - 77.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–10		1–7, CC	Pleistocene	F, A		S, I, T, O	2.5Y 4/2; 5Y 2/1; 2.5Y 4/2	NANNOFOSSIL MIXED SEDIMENT and NANNOFOSSIL OOZE WITH FORAMINIFERS Major Lithologies: NANNOFOSSIL MIXED SEDIMENT occur as thin to medium bedded, moderately bioturbated layers which grade downward into planar-laminated silty to sandy base. CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS occurs as thin to medium bedded, moderately biotrubated, and sometimes silty. Minor Lithologies: VITRIC ASH occur as thin-graded, planar-laminated interbeds in Section 1, 138–139.5, 141, 143, and 146–148.5 cm, Section 2, 141–143 and 143–147 cm, Section 3, 6–7 cm, and Section 7, 16.5–23.5 cm. CRYSTAL LITHIC SANDY SILT occurs as interbeds in Section 2, 15–52.5 cm, and Section 3, 137–141. General Description: This core consists of interbedded NANNOFOSSIL MIXED SEDIMENT and CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS. Numerous interbeds of VITRIC ASH are interbedded in this core.



SITE 954 HOLE A CORE 10H CORED 77.0 - 79.2 mbsf

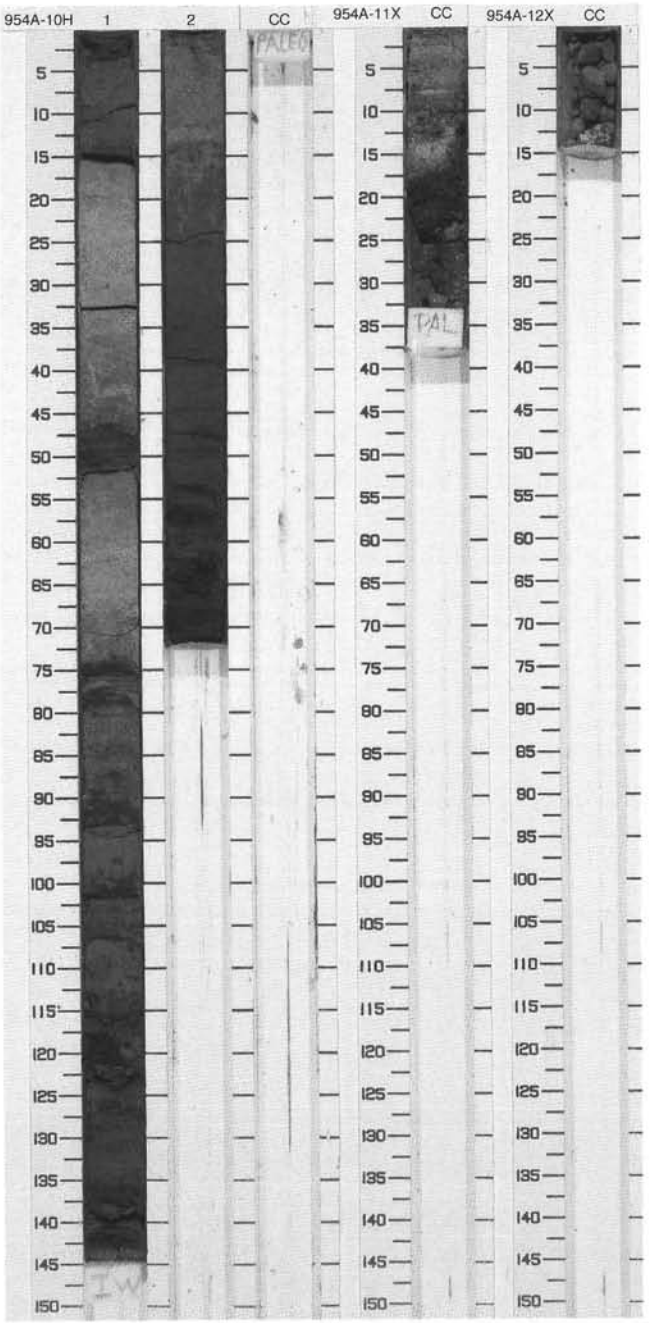
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1 2		1 2 CC	Pleistocene	F F F F F		S I O M		NANNOFOSSIL MIXED SEDIMENT Major Lithology: NANNOFOSSIL MIXED SEDIMENT occurs as moderately bioturbated thin to medium bedded layers which grades downward into sandy layers with sharp base. Minor Lithologies: Thin bedded CALCAREOUS SAND with crystal and lithics occurs as graded planar-laminated, thin bedded layers which have a sharp base. NANNOFOSSIL OOZE occurs as heavy bioturbated bed in Section 2, 0–12.5 cm. General Description: This core consists of interbedded NANNOFOSSIL MIXED SEDIMENT with the minor lithologies.

SITE 954 HOLE A CORE 11X CORED 79.2 - 82.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		CC	Pleist.			M	10Y 3/1	NANNOFOSSIL OOZE and VOLCANIC PEBBLES Major Lithologies: VOLCANIC PEBBLES occur in this core as matrix-supported interbeds in a moderately bioturbated NANNOFOSSIL OOZE.

SITE 954 HOLE A CORE 12X CORED 82.8 - 83.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		CC						LITHIC LAPILLISTONE Major Lithology: LITHIC LAPILLISTONE with subrounded to rounded, mainly basaltic pebbles. General Description: Age: Pleistocene.



SITE 954 HOLE B CORE 1R CORED 80.2 - 90.4 mbsf

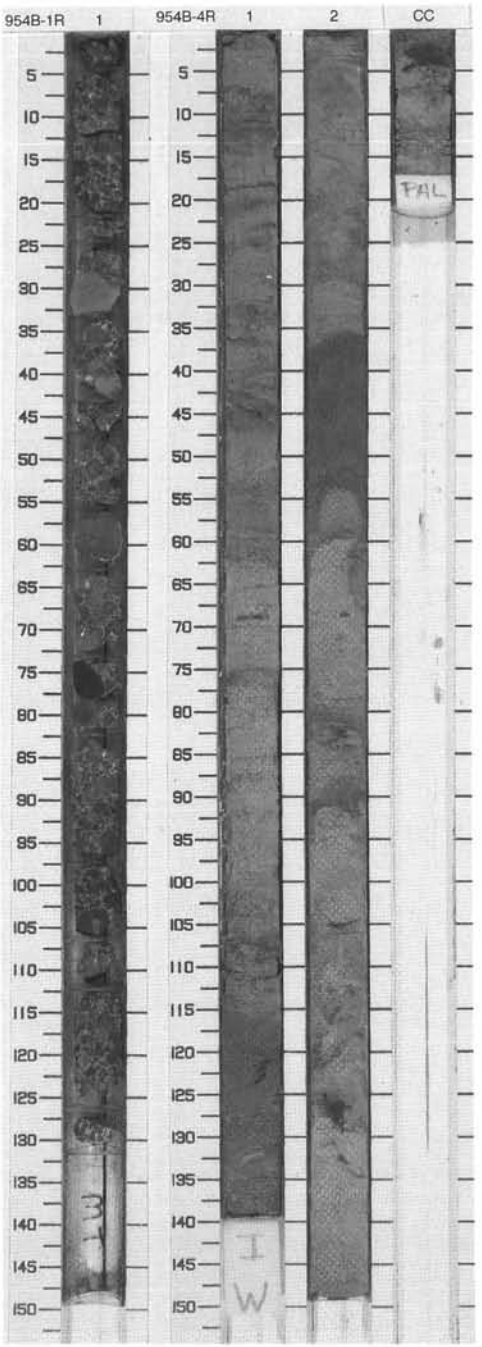
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	Pleist.–late Plio.			T	10Y 3/1	LAPILLISTONE Major Lithology: This core consists of LAPILLISTONE. Clasts consist of vesicular and nonvesicular basalt and phonolite supported in a nannofossil chalk matrix. Clasts are subangular to subround and up to 6 cm in diameter.

954B 2R NO RECOVERY

954B 3R NO RECOVERY

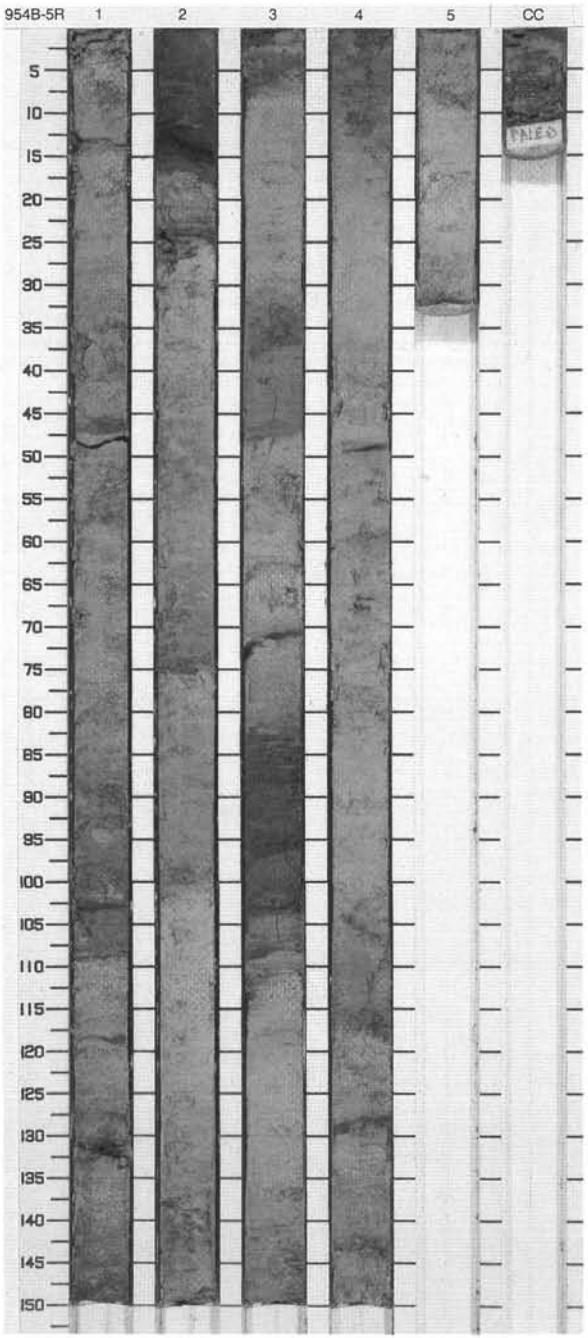
SITE 954 HOLE B CORE 4R CORED 109.7 - 119.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	late Pliocene			O I S	2.5Y 4/2	CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS and COARSE VOLCANIC ASH Major Lithologies: CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS occurs as medium bedded units which are moderately bioturbated. COARSE VOLCANIC ASH occurs as very thin to medium bedded units, some of which are normally graded and have pumice-rich bottoms. General Description: The core consists predominantly of CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS interbedded with COARSE VOLCANIC ASH . Thin volcanic ash fall layer occurs in Section 2, 58–59 and 86–90 cm.
2		2		F A		S	5Y 4/1	
3		CC				M	2.5Y 4/2	



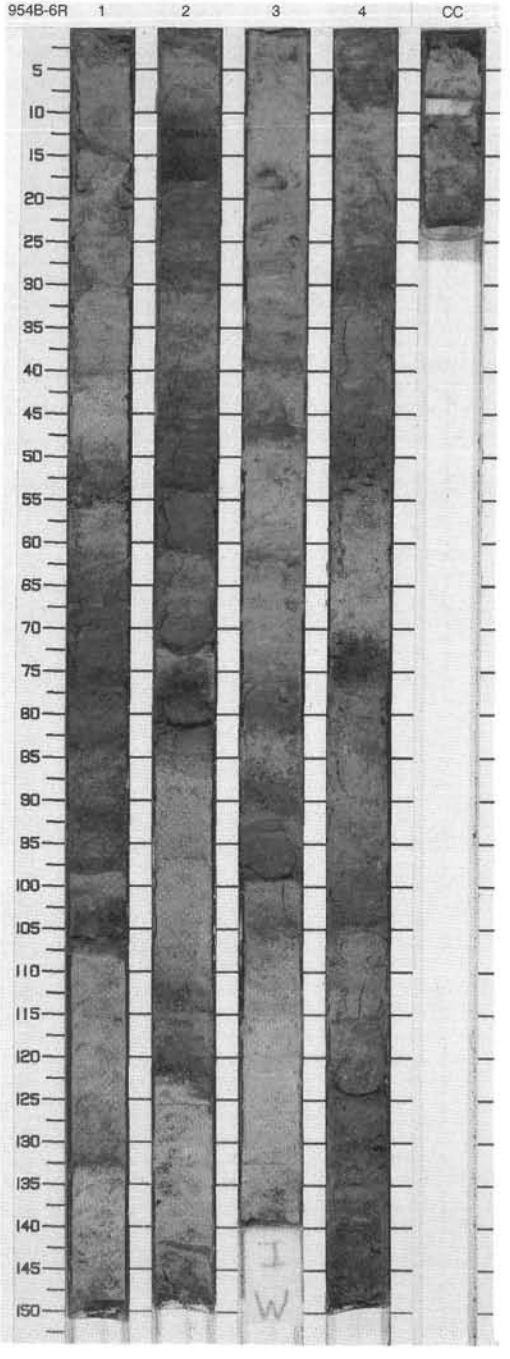
SITE 954 HOLE B CORE 5R CORED 119.3 - 129.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1 2 3 4 5 6		1 2 3 4 5 CC	late Pliocene	F F F F F F F A A F F F F	!	O M	2.5Y N4/0 to 5Y 4/1 2.5Y N4/0 to 2.5Y N3/0 2.5Y N4/0 to 2.5Y N3/0 2.5Y N5/0 to 5Y 4/1	NANNOFOSSIL OOZE WITH FORAMINIFERS Major Lithology: NANNOFOSSIL OOZE WITH FORAMINIFERS occurs as medium to thick beds with slight mottling or bioturbation which usually grade downward into LITHIC CRYSTAL SILTS or SANDS. Minor Lithologies: NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS occurs as moderately to heavy bioturbated beds which grade downward into a silty or sandy base. LITHIC CRYSTAL SILT and SAND occur as slightly graded, sometimes parallel-laminated interbeds at the base of nannofossil ooze and intervals of nannofossil mixed sediment with foraminifers. COARSE ASH layers occur as thin interbeds in Section 3, 46–47 and 70–71 cm. General Description: This core consists of alternating medium to thick units of the major lithology with thin to medium beds of the minor lithologies.



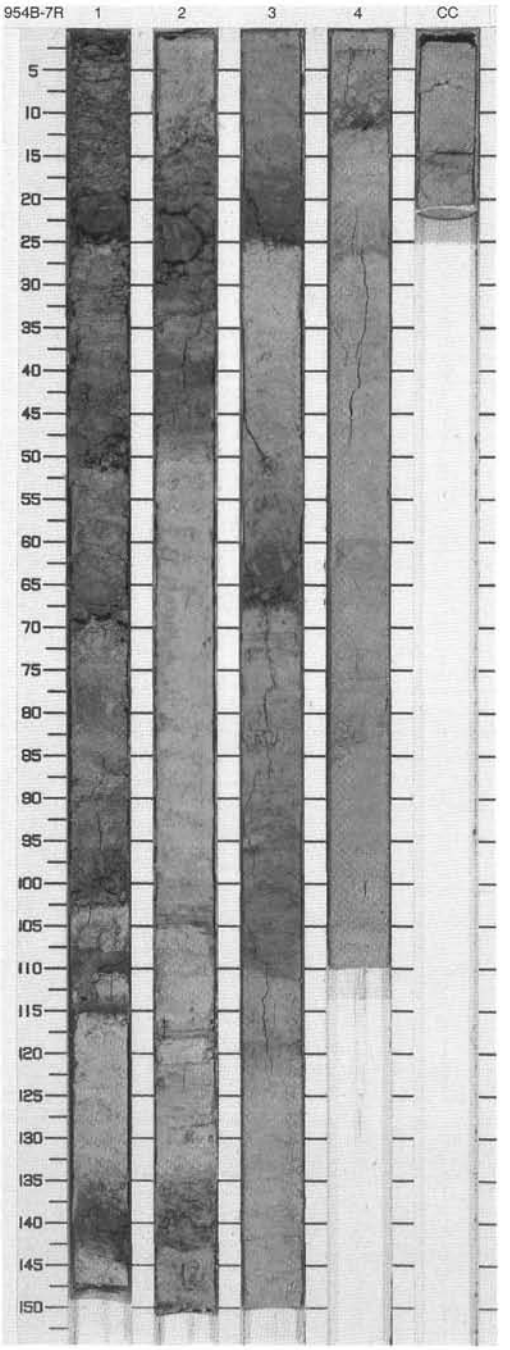
SITE 954 HOLE B CORE 6R CORED 129.0 - 138.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–6		1–4, CC	late Pliocene	F		S, O, M	2.5Y 4/2; 2.5Y 3/2; 2.5Y N2/0; 5Y 4/1	CLAYEY NANNOFOSSIL MIXED SEDIMENT and CLAY WITH NANNOFOSSILS Major Lithologies: CLAYEY NANNOFOSSIL MIXED SEDIMENT occurs as moderately bioturbated thin to medium beds which grade downward into graded silts or sands with sharp base. CLAY WITH NANNOFOSSILS occurs as thin to medium beds with moderate to heavy bioturbation grading downward into silty base. Minor Lithologies: NANNOFOSSIL OOZE occurs as thin interbeds in Section 2, 2–9, 24–40, 60–68, and 72–75 cm, Section CC, 2–16 cm. Pumice ash occurs in Section 4, 133–135 cm. Dark gray LITHIC CRYSTAL SILT and SAND occur as thin, parallel-graded layers with sharp base at the bottom of clayey units. General Description: This core consists of alternating medium bedded units of the major lithologies with thin to medium beds of the minor lithologies.



SITE 954 HOLE B CORE 7R CORED 138.6 - 148.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–5		1, 2, 3, 4, CC	late Pliocene	F, A		T, S, O, M	5Y 2.5/1; 2.5Y 5/2	CLAYEY NANNOFOSSIL OOZE Major Lithology: CLAYEY NANNOFOSSIL OOZE occurs as slightly to moderately bioturbated thin to thick bedded layers with gradational bases. Minor Lithologies: CLAYEY NANNOFOSSIL MIXED SEDIMENT occurs as thin to medium interbeds with heavy bioturbation which grade downward into silty or sandy bases in Section 1, 7–20 cm, and Section CC, 0–21 cm. CLAY WITH NANNOFOSSILS occurs as thin interbeds with moderate to heavy bioturbation which grade downward into parallel-laminated bases. These interbeds are abundant in Section 1, 20–145 cm. LITHIC CRYSTAL SILT and SAND occur as thin-graded and sometimes planar-laminated interbeds with sharp bases. Biotite-bearing ZEOLITIC TUFF occurs in Section 2, 16–30 cm. General Description: This core consists of alternating thin to medium bedded units of the major lithologies with thin to medium interbeds of the minor lithologies.



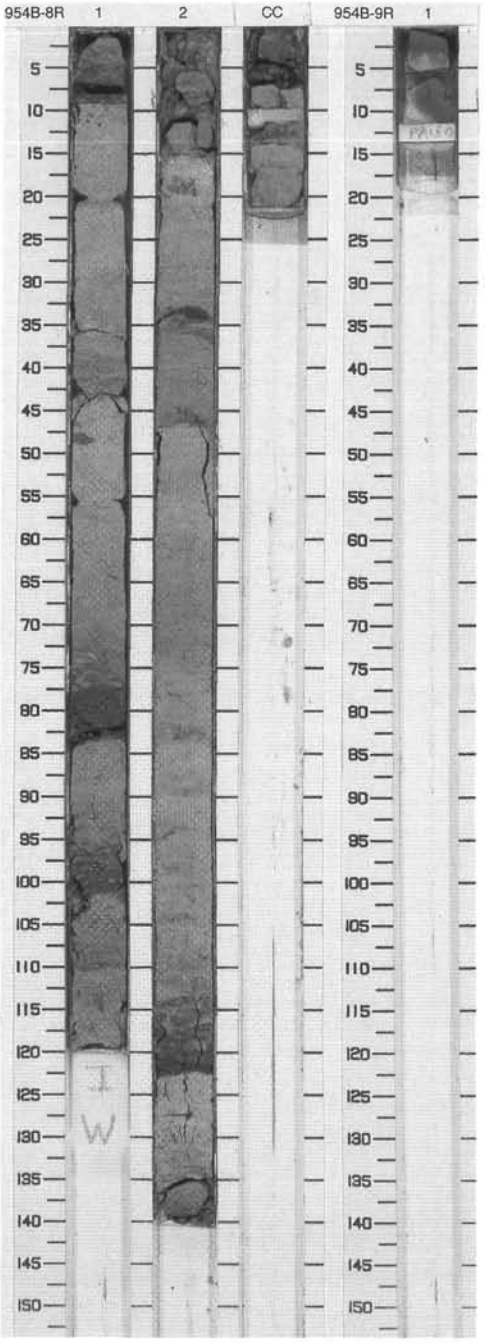
SITE 954 HOLE B CORE 8R CORED 148.2 - 157.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
2		1	late Pliocene			O I S S	2.5Y 5/1 to 5Y 3/1	NANNOFOSSIL OOZE Major Lithology: NANNOFOSSIL OOZE occurs as thin to medium beds with slight to moderate bioturbation. Minor Lithologies: CLAY WITH NANNOFOSSILS occurs as thin interbeds with slight to heavy bioturbation in Section 1, 3–9, 70–84, and 93–101 cm, and Section 2, 5.5–10 and 114–123 cm, and Section CC, 0–7 cm. NANNOFOSSIL CLAY MIXED SEDIMENT occurs as a thin interbed with moderate bioturbation in Section 2, 10–15 cm. General Description: This core consists of alternating major and minor lithologies.
		2		F			2.5Y 5/1 to 2.5Y N4/0	
		CC						

SITE 954 HOLE B CORE 9R CORED 157.9 - 167.6 mbsf

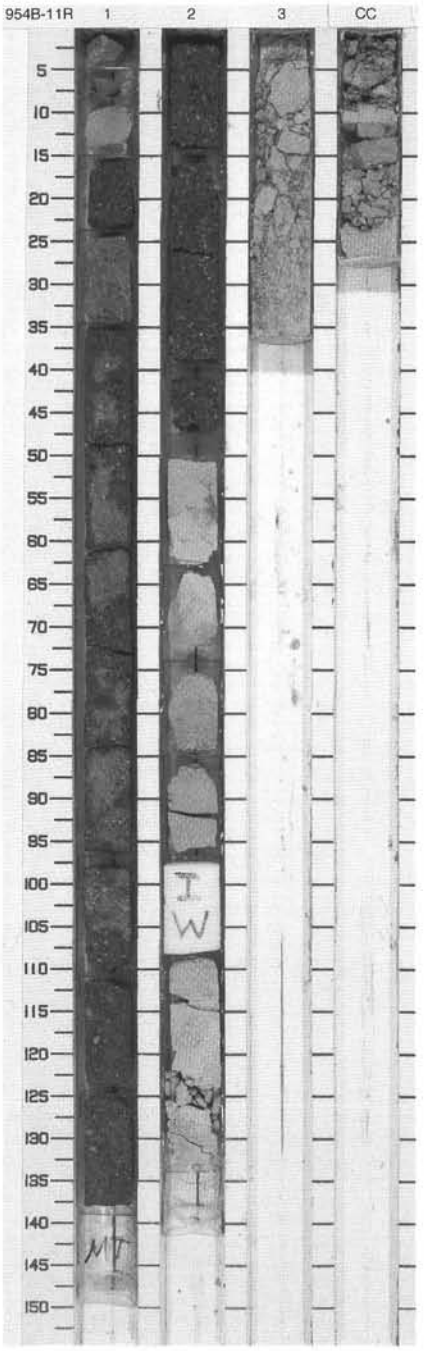
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1					9.5YR 3.6/0.8	DOLOMITE-RICH SILTSTONE General Description: This core consists of a fragment of brown, fine-grained indurated DOLOMITE-RICH SILTSTONE.

954B 10R NO RECOVERY



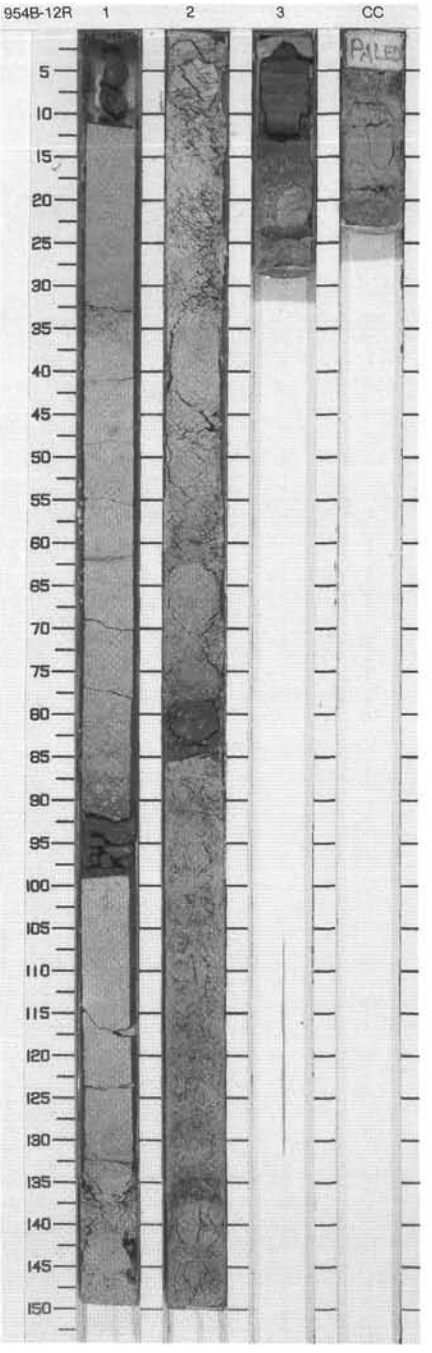
SITE 954 HOLE B CORE 11R CORED 177.2 - 186.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–3		1, 2, 3, CC	late Pliocene	F		I, O	7.5GY 4/1; 2.5Y 5/2	LAPILLISTONE and NANNOFOSSIL CHALK Major Lithologies: LAPILLISTONE occurs as a polymict, matrix-supported graded unit. Basaltic and phonolitic clasts are angular to subangular. Minor pumice and crystals are present. NANNOFOSSIL CHALK occurs as structureless beds with moderate bioturbation. Minor Lithologies: DOLOMITE-RICH SILTSTONE occurs in Section 1, 0–14 cm. CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK with slight bioturbation occurs in Section CC, 11–27 cm.



SITE 954 HOLE B CORE 12R CORED 186.9 - 196.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1 2 3		1 2 3 CC	late Pliocene ?? early Pliocene			O M	2.5Y N2/0 to 10YR 3/1 2.5Y 5/2 to 2.5Y 3/2	NANNOFOSSIL CHALK Major Lithology: NANNOFOSSIL CHALK occurs as medium to thick beds with moderate to heavy bioturbation which grade downward into dark gray claystones. Minor Lithologies: CRYSTAL LITHIC SANDSTONE occurs as medium-grained, graded, thin interbeds with a sharp base in Section 1, 0–10 and 98–99 cm. CLAYSTONE occurs as thin, planar-laminated interbeds with moderate bioturbation.

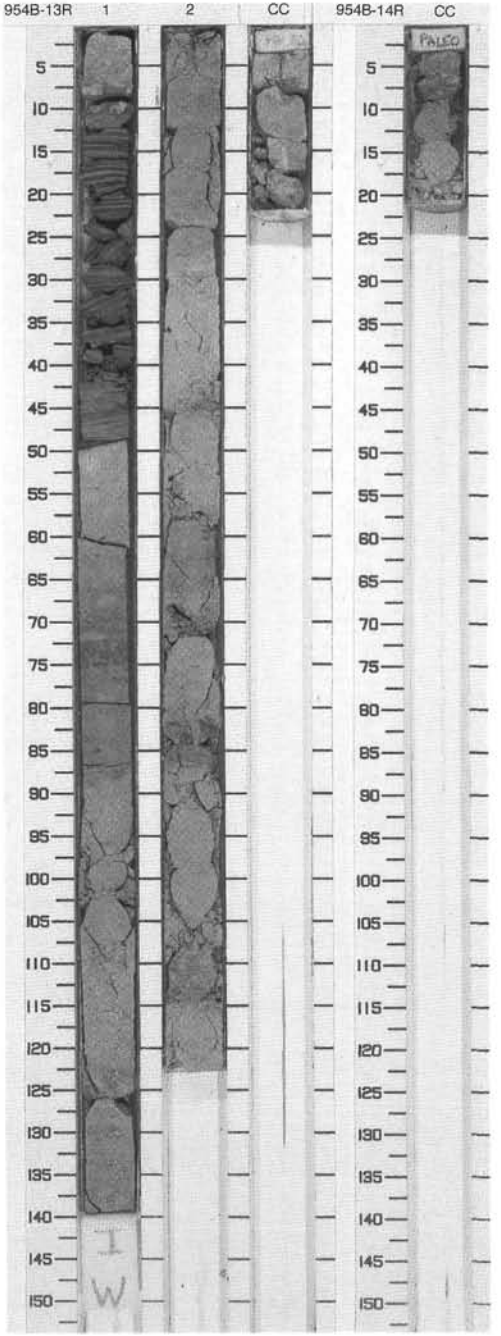


SITE 954 HOLE B CORE 13R CORED 196.5 - 206.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–2		1, 2, CC	early Pliocene			I O M	10GY 3/0 to 2.5Y 5/2; 2.5Y N4/0 to 2.5Y 4/2	NANNOFOSSIL CHALK and SILTY NANNOFOSSIL LITHIC MIXED SEDIMENTARY ROCK Major Lithologies: NANNOFOSSIL CHALK forms the dominant lithology in this core, and is generally strongly to moderately bioturbated. SILTY NANNOFOSSIL LITHIC MIXED SEDIMENTARY ROCK forms a stacked sequence of very thin, planar-laminated normally graded beds in Section 1, 11 to 50 cm. Minor Lithologies: CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK occurs as a strongly bioturbated bed in Section 1, 0–11 cm. NANNOFOSSIL CHALK WITH CLAY occurs as a moderately bioturbated band within nannofossil chalk in Section 1, 75–89 cm. LITHIC CRYSTAL SILT occurs as very thin beds within nannofossil chalk in Section 2, 57–58 and 70–72 cm.

SITE 954 HOLE B CORE 14R CORED 206.2 - 215.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		CC						NANNOFOSSIL OOZE WITH CLAY Major Lithology: NANNOFOSSIL OOZE WITH CLAY is the dominant lithology and shows minor bioturbation. Minor Lithology: CLAYEY NANNOFOSSIL MIXED SEDIMENT forms a thin, moderately bioturbated layer between 0–8 cm. General Description: This is a disturbed sequence. The predominant sediment color is 3.1Y 4/1.

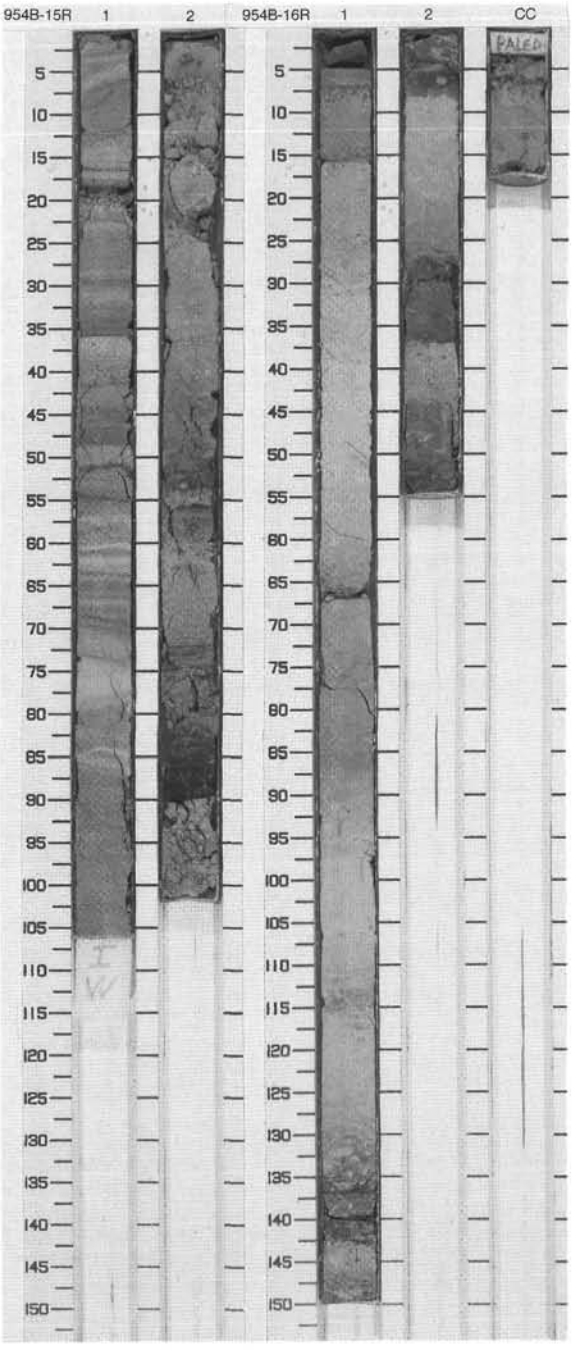


SITE 954 HOLE B CORE 15R CORED 215.7 - 225.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1	early Pliocene			I O	5Y 5/1 to 2.5Y 5/2	NANNOFOSSIL CHALK WITH CLAY Major Lithology: NANNOFOSSIL CHALK WITH CLAY forms the dominant lithology and may be strongly bioturbated. It contains scattered black lithics (mainly basalt) and crystals in Section 1, 6–12, 34–35, 40–41, 44–46, 57–59, and 86–106 cm. Minor Lithology: LITHIC SILTY SANDSTONE occurs as a black, thin, planar-laminated, normally graded bed in Section 2, 80–89 cm. General Description: The major lithology forms a continuous thick interval from Section 1, 0 cm, to Section 2, 80 cm.
		2						
		CC		F		M		

SITE 954 HOLE B CORE 16R CORED 225.2 - 234.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1	early Pliocene				5Y 4/1 to 2.5Y 5/2	NANNOFOSSIL CHALK WITH FORAMINIFERS and NANNOFOSSIL CLAY Major Lithologies: NANNOFOSSIL CHALK WITH FORAMINIFERS forms the dominant lithology and is moderately to strongly bioturbated. NANNOFOSSIL CLAY occurs as a series of thin interbeds in Section 2 and is slightly to strongly bioturbated. Both major lithologies may contain scattered black silt- or sand-sized grains. Minor Lithologies: CLAYEY NANNOFOSSIL CHALK occurs as a thin bed containing scattered black, sand-sized basaltic lithics and crystals in Section 1, 7–15 cm. CRYSTAL LITHIC SILT occurs as thin interbeds within nannofossil chalk in Section 1, 67 and 137 cm.
		2				O	10Y 3/1	
		CC				M		

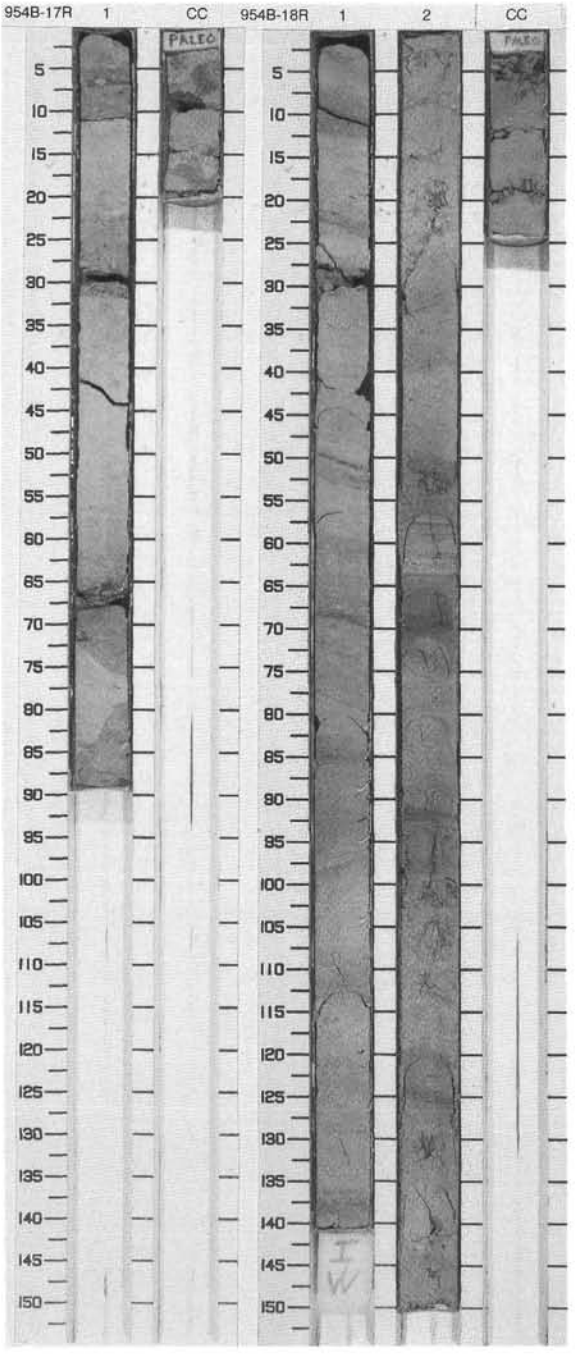


SITE 954 HOLE B CORE 17R CORED 234.8 - 244.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1 CC	early Plio.			M	2.5Y N5/0	NANNOFOSSIL CHALK, NANNOFOSSIL CHALK WITH CLAYSTONE, and NANNOFOSSIL CHALK WITH SILTSTONE Major Lithologies: This core consists of interbeds of NANNOFOSSIL CHALK, NANNOFOSSIL CHALK WITH CLAYSTONE, and NANNOFOSSIL CHALK WITH SILTSTONE. Soft sediment folding occurs in Section 1, 67–89, and throughout the Core Catcher.

SITE 954 HOLE B CORE 18R CORED 244.4 - 254.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1 2 CC	early Pliocene			I O M	10Y 5/1 to 2.5Y N3/0	CLAYEY NANNOFOSSIL CHALK Major Lithology: Generally structureless with some silty laminations.

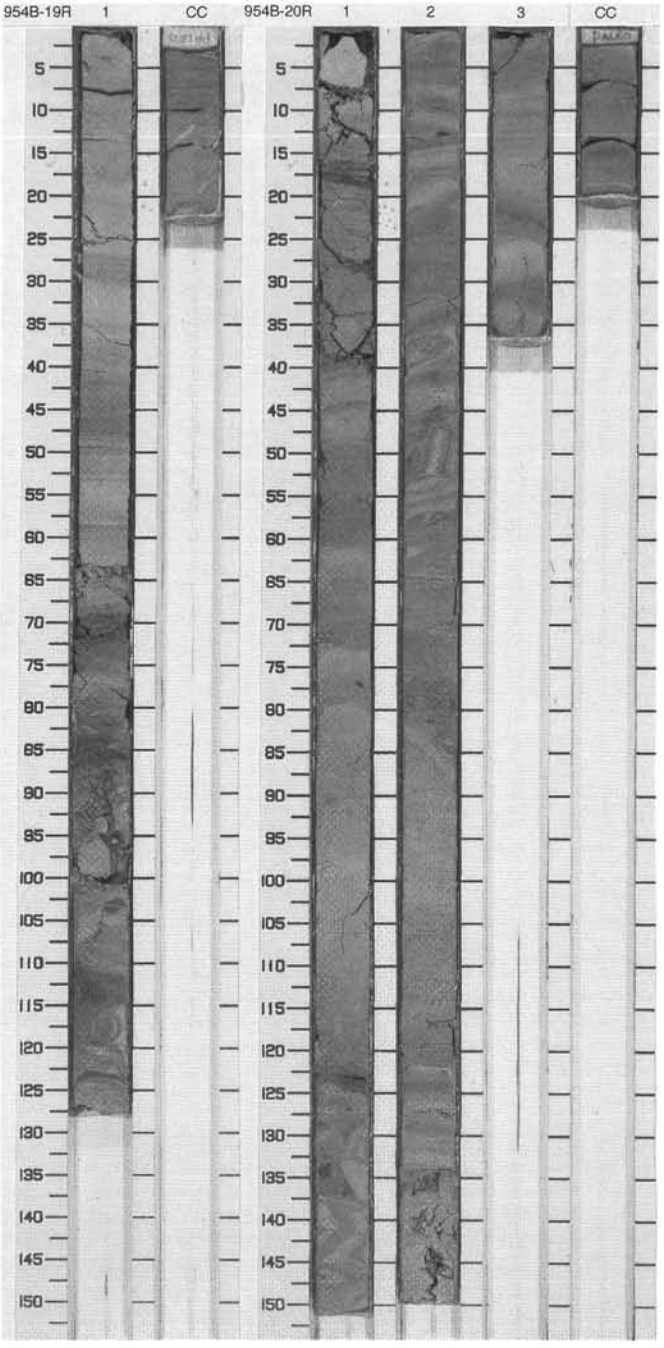


SITE 954 HOLE B CORE 19R CORED 254.1 - 263.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1 CC	late Miocene	F		O M	10Y 5/1 to 2.5Y N2/0	NANNOFOSSIL CHALK WITH FORAMINIFERS and NANNOFOSSIL CHALK WITH CLAYSTONE Major Lithologies: This core consists of interbeds of NANNOFOSSIL CHALK WITH FORAMINIFERS and NANNOFOSSIL CHALK WITH CLAYSTONE. Soft sediment folding occurs in Section 1, 101–128 cm, and throughout the Core Catcher.

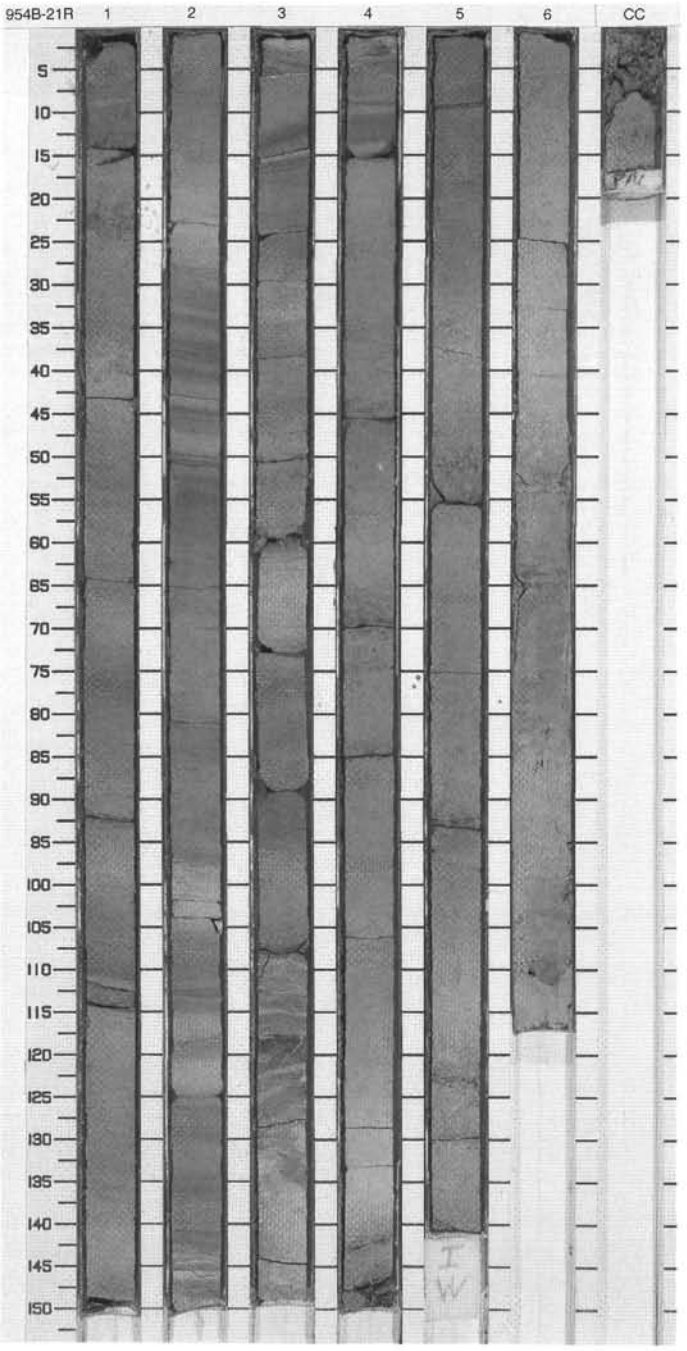
SITE 954 HOLE B CORE 20R CORED 263.7 - 273.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1 2 3		1 2 3 CC	late Miocene			S O M	2.5Y 4/2 to 2.5Y 5/2	NANNOFOSSIL CHALK WITH CLAY Major Lithology: NANNOFOSSIL CHALK WITH CLAY composes the entire core, except for a thin sand interval in Section 1, and may be slightly to strongly bioturbated, although some intervals are structureless. The NANNOFOSSIL CHALK WITH CLAY forms a slumped interval between Section 1, 125 cm and Section 2, 120 cm, with the sediment showing contorted beds and folded lamination. Minor Lithology: FORAMINIFER CRYSTAL SAND forms a very thin, massive, disturbed bed in Section 1, 123–125 cm. General Description: The whole core is very disturbed through drilling and broken up into drilling biscuits, many of which have rotated. Color is rather uniform.



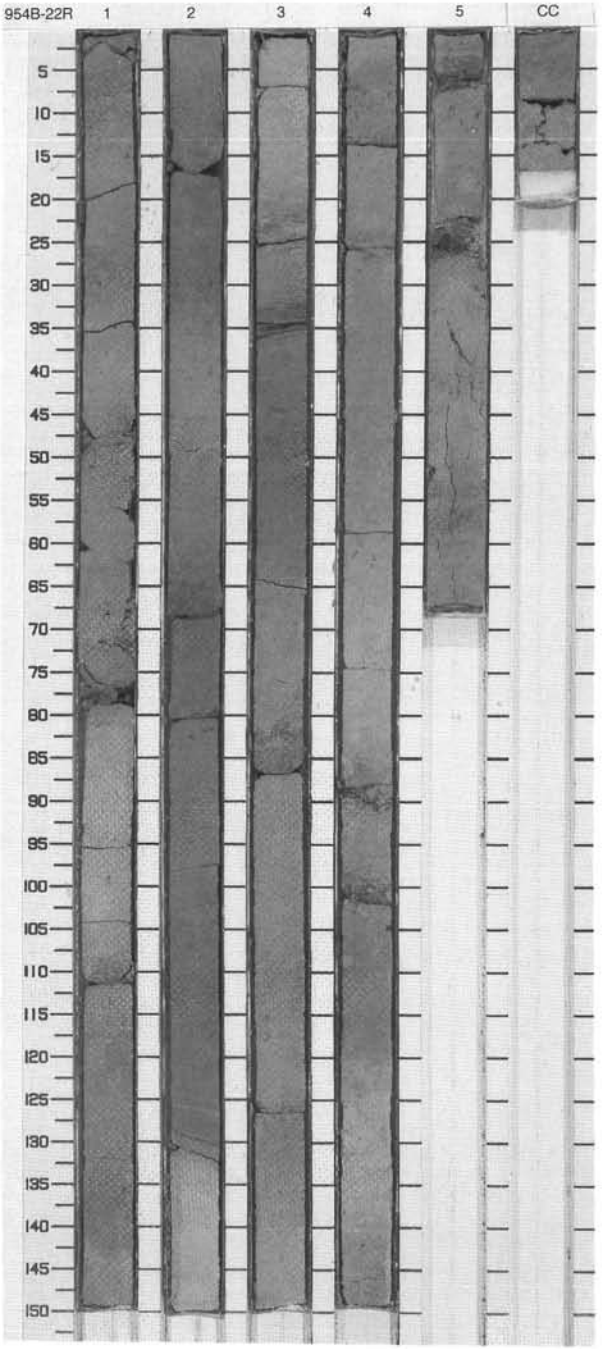
SITE 954 HOLE B CORE 21R CORED 273.3 - 282.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–8		1	late Miocene				5Y 4/1	NANNOFOSSIL CHALK WITH CLAY Major Lithology: This core consists of moderately to strongly bioturbated NANNOFOSSIL CHALK WITH CLAY. Scattered crystal lithic silt occur throughout the core.
		2					5Y 4/1 to 2.5Y N3/0	
		3						
		4				I O	2.5Y N3/0 to 2.5Y N5/0	
		5						
		6					2.5Y N4/0 to 2.5Y N5/0	
		CC				M		



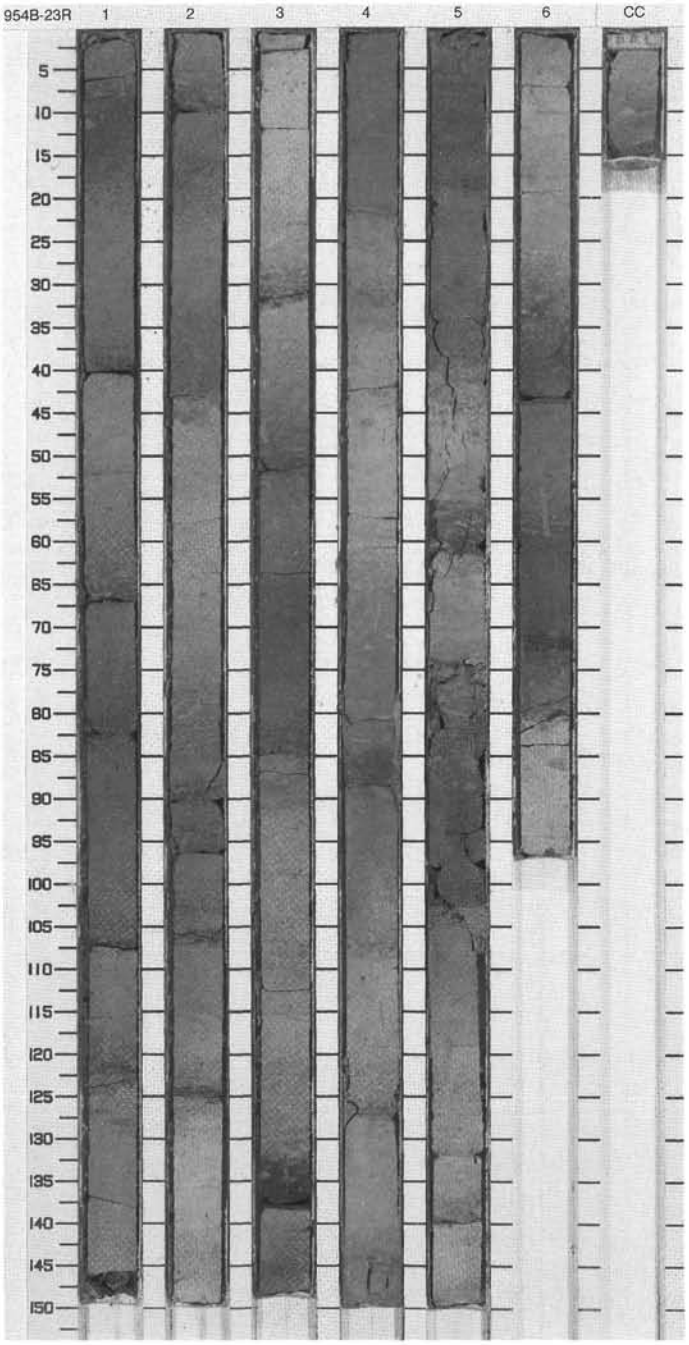
SITE 954 HOLE B CORE 22R CORED 282.8 - 292.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–6		1, 2, 3, 4, 5, CC	late Miocene	F, F		O, M	2.5Y 4/1 to 5Y 4/1; 2.5Y 5/1	NANNOFOSSIL CHALK WITH CLAY Major Lithology: NANNOFOSSIL CHALK WITH CLAY is the dominant lithology, making up the entire core, except for thin silt interbeds. It consists of intervals that are moderately to strongly bioturbated, although some intervals appear homogenous. Some intervals have black sand-sized crystals scattered throughout. Minor Lithologies: CRYSTAL LITHIC SILT forms thin, often bioturbated, interbeds. Directly about these, the nannofossil chalk with clay grades into SILTY NANNOFOSSIL CHALK. General Description: Color is very uniform throughout and the section consists dominantly of NANNOFOSSIL CHALK WITH CLAY with only minor interbeds of silt and sand.



SITE 954 HOLE B CORE 23R CORED 292.4 - 302.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–8		1–6, CC	late Miocene	F		O T S M	2.5Y 4/1 to 2.5Y N5/0; 2.5Y 4/1 to 2.5Y N5/0; 2.5Y 5/1 to 5Y 4/1; 2.5Y 5/1	NANNOFOSSIL CHALK WITH CLAY Major Lithology: NANNOFOSSIL CHALK WITH CLAY is the dominant lithology of the core and consists of thick beds which are moderately to strongly bioturbated. Some intervals have black, sand-sized crystals dispersed throughout. Minor Lithologies: CRYSTAL LITHIC SILTSTONE is present as very thin beds, usually beneath an interval of CLAYSTONE WITH NANNOFOSSILS or CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK. General Description: This core consists mostly of NANNOFOSSIL CHALK WITH CLAY which is interbedded with thin sequences of CLAYSTONE WITH NANNOFOSSILS or CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK which grade downward into CRYSTAL LITHIC SILTSTONE or SANDSTONE.

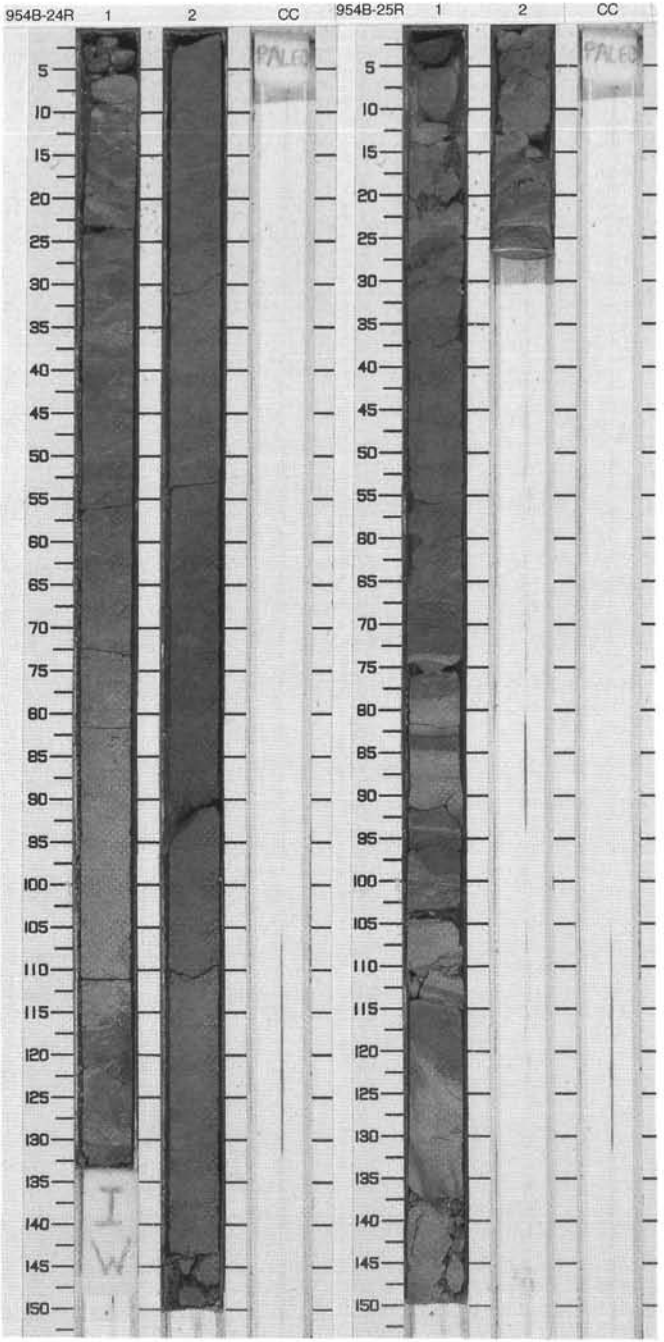


SITE 954 HOLE B CORE 24R CORED 302.0 - 311.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1 2 3		1 2 CC	late Miocene	F F		O I M	2.5Y 3/2 to 5Y 3/1	NANNOFOSSIL CHALK WITH CLAY Major Lithology: NANNOFOSSIL CHALK WITH CLAY is the dominant lithology in this core and consists of thick beds with moderate bioturbation. These beds are slumped and mixed with CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK in Section 1, 0–53 and 115–133 cm. Minor Lithologies: CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK occurs as slumped layers in Section 1, 0–53 and 115–133 cm. SANDSTONE occurs as minor slumped interbeds in Section 1, 0–53 cm, and at the base of a NANNOFOSSIL CHALK WITH CLAY bed in Section 2, 92 cm. General Description: This core consists mostly of NANNOFOSSIL CHALK WITH CLAY, which is associated with CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK in slumped intervals.

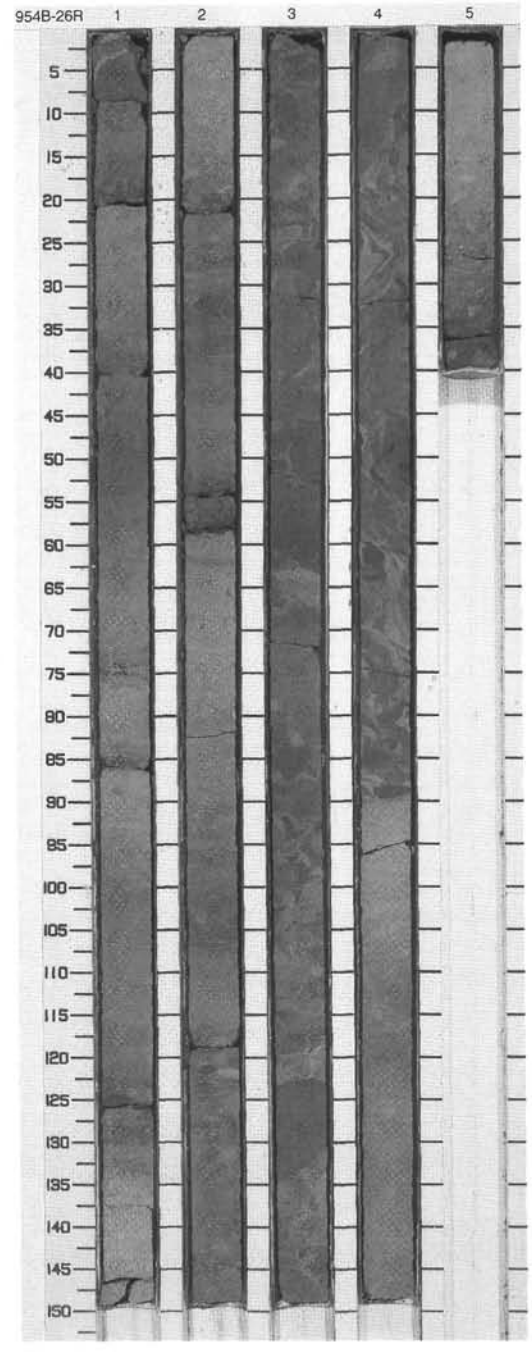
SITE 954 HOLE B CORE 25R CORED 311.7 - 321.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1 CC	late Miocene			O M	2.5Y 4/1	NANNOFOSSIL CHALK WITH FORAMINIFERS and NANNOFOSSIL CLAYEY MIXED SEDIMENTARY ROCK Major Lithologies: NANNOFOSSIL CHALK WITH FORAMINIFERS and NANNOFOSSIL CLAYEY SEDIMENTARY ROCK occur as a chaotic mixture in this core. Small black lithic particles are dispersed within the chalk. Minor Lithologies: LITHIC CRYSTAL SILTY SAND occurs as thin beds within the slumped intervals.



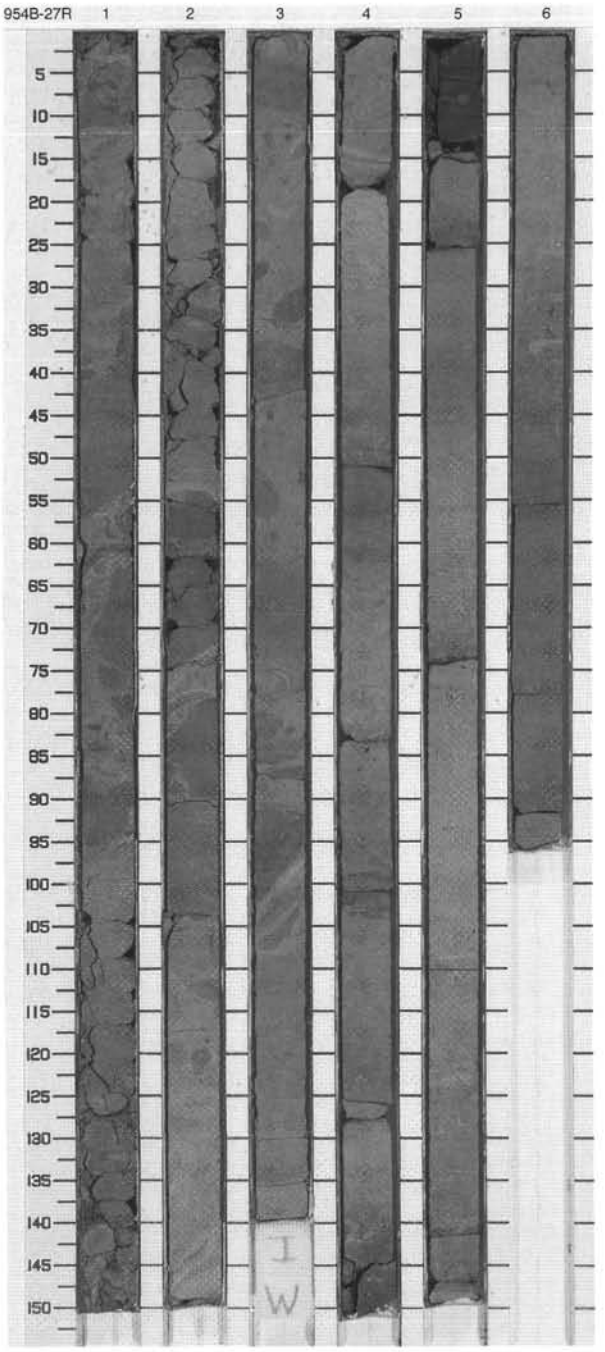
SITE 954 HOLE B CORE 26R CORED 321.4 - 331.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–6		1–5	late Miocene			O	2.5Y 4/1 to 5Y 4/2	NANNOFOSSIL CHALK WITH FORAMINIFERS and CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK Major Lithologies: CLAYEY NANNOFOSSIL CHALK occurs as thin to medium beds with heavy bioturbation and gradational contacts with underlying units and as slumped beds. CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK occurs as a thick bed with moderate bioturbation in Section 4, 103–149 cm, and Section 5, 24–40 cm, and as thin interbeds with silty or sandy base in Section 1, 17–127 cm, and Section 2, 17–120 cm, and as slumped beds in Section 2, 120–150 cm, and Section 3, 0–148 cm. Minor Lithology: LITHIC CRYSTAL SILTY SANDSTONE occurs as thin interbeds in Section 1, 8–8.2 cm. General Description: This core consists mostly of an alternation of NANNOFOSSIL CHALK WITH FORAMINIFERS and CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK. Important slumps.



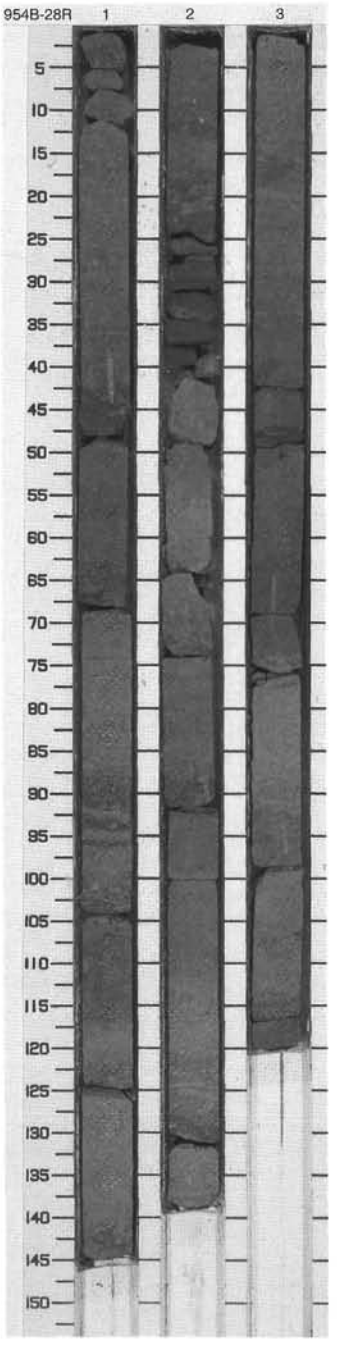
SITE 954 HOLE B CORE 27R CORED 331.1 - 340.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–8		1–6	late Miocene				2.5Y 4/1; 2.5Y 4/1 to 5Y 4/2	NANNOFOSSIL CHALK WITH FORAMINIFERS and CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK Major Lithologies: NANNOFOSSIL CHALK WITH FORAMINIFERS occurs as thin interbeds within CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK. CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK occurs as thin to medium beds with heavy bioturbation, which grades downward into graded LITHIC CRYSTAL SANDSTONES. NANNOFOSSIL CHALK WITH FORAMINIFERS and CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK also occur in the slumped chaotic mixture in Section 1, 0–150 cm, Section 2, 0–150 cm, and Section 3, 0–150 cm. Minor Lithologies: LITHIC CRYSTAL SANDSTONE occurs as thin graded, sometimes parallel-laminated interbeds at the base of CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK sequences. General Description: This core consists mainly of an alternation of NANNOFOSSIL CHALK WITH FORAMINIFERS and CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK. Important slumps in Sections 1, 2, and 3.



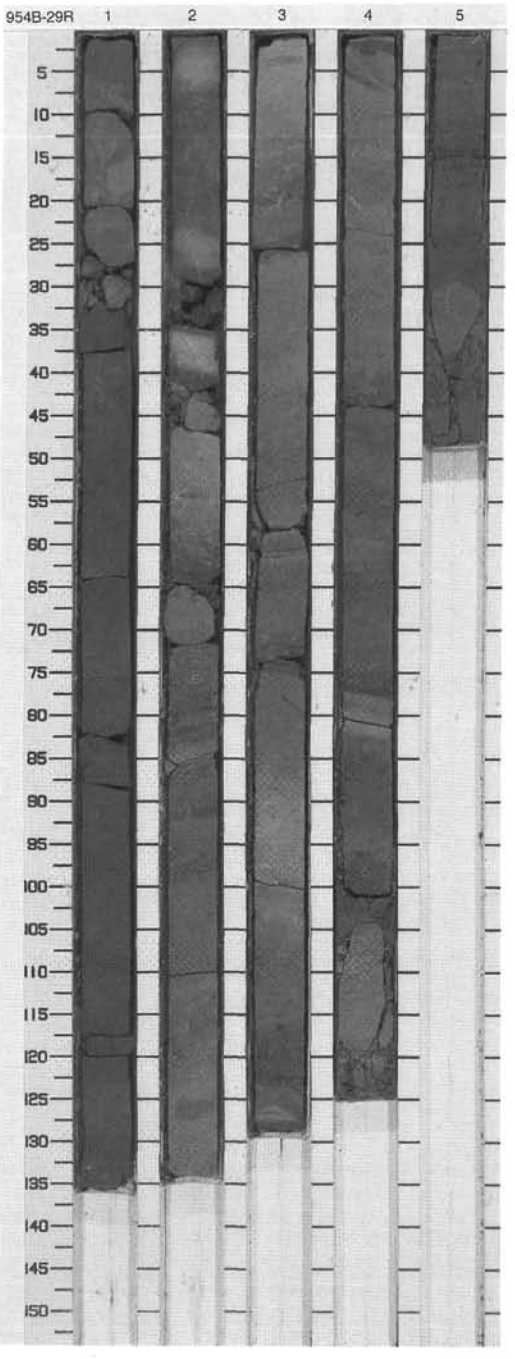
SITE 954 HOLE B CORE 28R CORED 340.7 - 350.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–4		1, 2, 3	late Miocene	F		O	2.5Y 4/1 to 5Y 4/2	NANNOFOSSIL MIXED SEDIMENTARY ROCK Major Lithology: NANNOFOSSIL MIXED SEDIMENTARY ROCK occurs as thin to medium beds with moderate to extensive bioturbation which grades downward into LITHIC CRYSTAL SILTSTONE and SANDSTONE bases. Minor Lithology: LITHIC CRYSTAL SILTSTONE AND SANDSTONE occur as thin-graded, sometimes parallel-laminated, interbeds at the base of the NANNOFOSSIL MIXED SEDIMENTARY ROCK sequences in Section 1, 48, 104–105, 124–126, and 143–145 cm, Section 2, 10–13, 27–31, 74, and 88–92.5 cm, and Section 3, 42, 47–49, 75–77, 98–99, 108, 117, and 121 cm. CLAYSTONE occurs as a thin layer with moderate to heavy bioturbation in Section 1, 66–68 cm, Section 2, 31–40, 70–74, 88–92.5, and 121–140 cm, and Section 3, 117–121 cm. General Description: This core consists of interbeds of the major and minor lithologies.



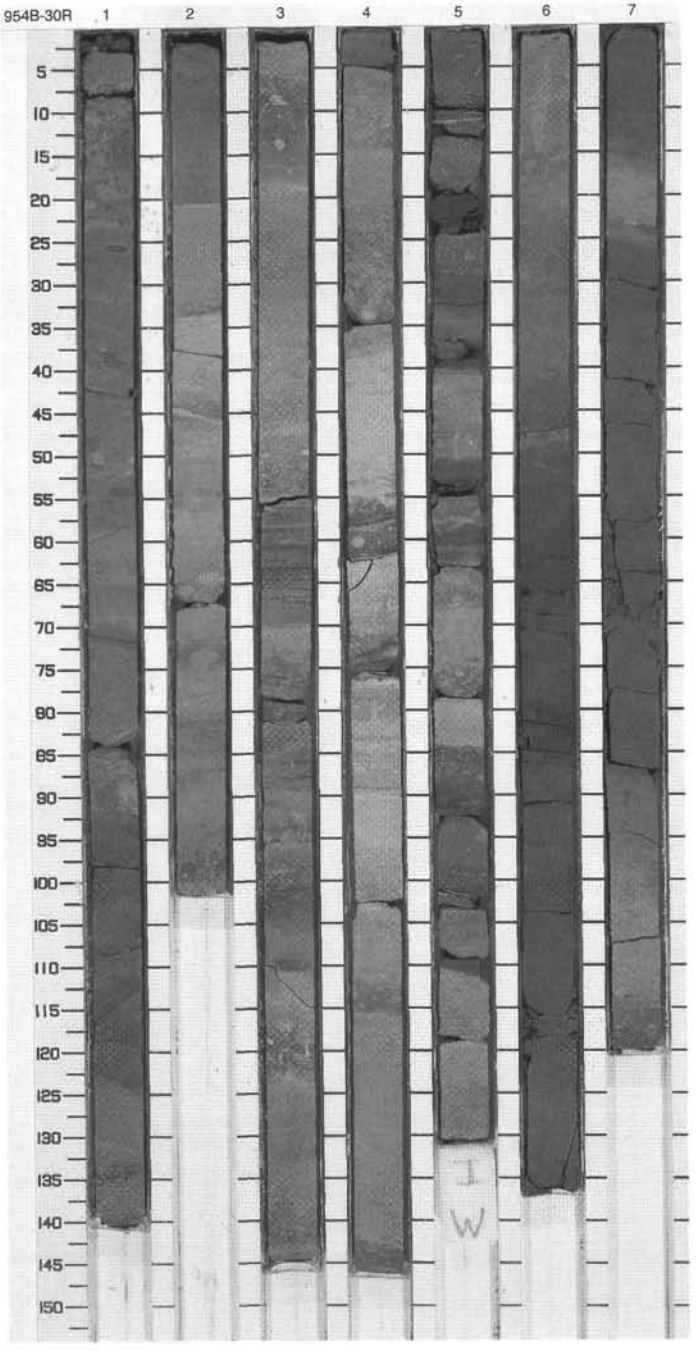
SITE 954 HOLE B CORE 29R CORED 350.4 - 359.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1	late Miocene				2.5Y 3/1 to 5Y 4/2	CLAYSTONE, CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK and NANNOFOSSIL CHALK Major Lithologies: CLAYSTONE occurs as thin to medium massive beds with heavy bioturbation or as thin interbeds in Section 2, 73–85 cm, and Section 4, 74–81 cm. CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK occurs thin to medium beds with moderate bioturbation or within slumped intervals. NANNOFOSSIL CHALK occurs as thin beds with heavy bioturbation or within slumped intervals. Minor Lithologies: LITHIC CRYSTAL SANDSTONE occurs as thin, sometimes parallel-laminated interbeds with sharp base in Section 1, 62–64, 82–84, and 135–136 cm, Section 2, 0–0.5, 19–25.5, and 65 cm, Section 4, 0–2 cm, Section 5, 13.5–16 cm, and within slumped intervals. General Description: This core consists of interbedded CLAYSTONE, CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK, and NANNOFOSSIL CHALK with minor LITHIC CRYSTAL SANDSTONE. Slumped intervals occur in Section 1, 0–32 cm, and Section 3, 103.5–129.5 cm.
		2						
		3						
		4						
		5						



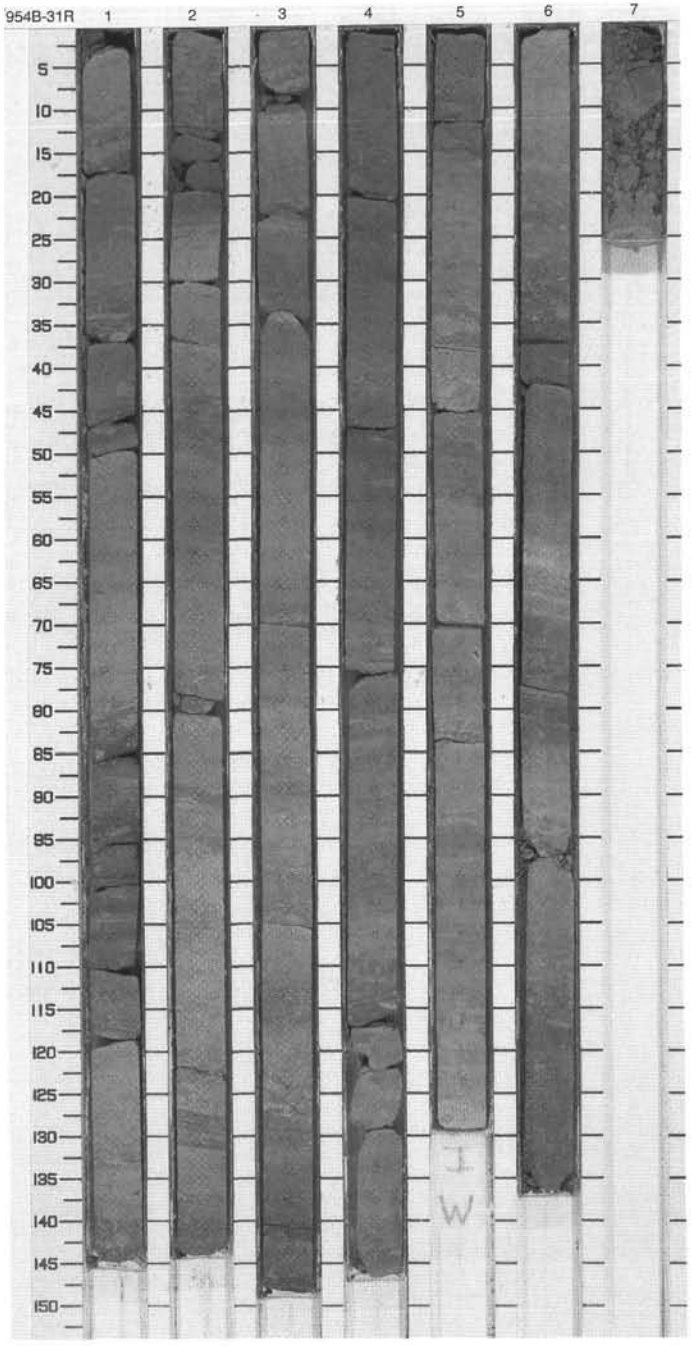
SITE 954 HOLE B CORE 30R CORED 359.9 - 369.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	late Miocene				2.5Y 3/1 to 5Y 4/2	NANNOFOSSIL MIXED SEDIMENTARY ROCK, VITRIC-RICH CLAYSTONE, and NANNOFOSSIL CHALK Major Lithologies: NANNOFOSSIL CHALK occurs as contorted beds in association with CRYSTAL LITHIC SANDSTONE AND SILTSTONE in a slumped interval in Section 1. NANNOFOSSIL MIXED SEDIMENTARY ROCK occurs as thin beds with discrete parallel lamination and slight to moderate bioturbation which grade downward into graded CRYSTAL LITHIC SANDSTONE AND SILTSTONE. VITRIC-RICH CLAYSTONE occurs as medium beds with parallel lamination and slight to moderate bioturbation, which grade downward into silty or sandy bases. Minor Lithology: CRYSTAL LITHIC SANDSTONE AND SILTSTONE occur as thin-graded interbeds sometimes with parallel-lamination at the base of NANNOFOSSIL MIXED SEDIMENTARY ROCK intervals. General Description: This core consists mainly of an alternation of the major an minor lithologies with an important slumped interval in Section 1.
		2		F				
		3		F F			2.5Y 3/1 to 10GY 3/0	
		4		F F F				
		5		F	⊥ ⊥ ⊥			
		6				I S	2.5Y 3/1 to 10Y 3/1	
		7			⊥⊥			



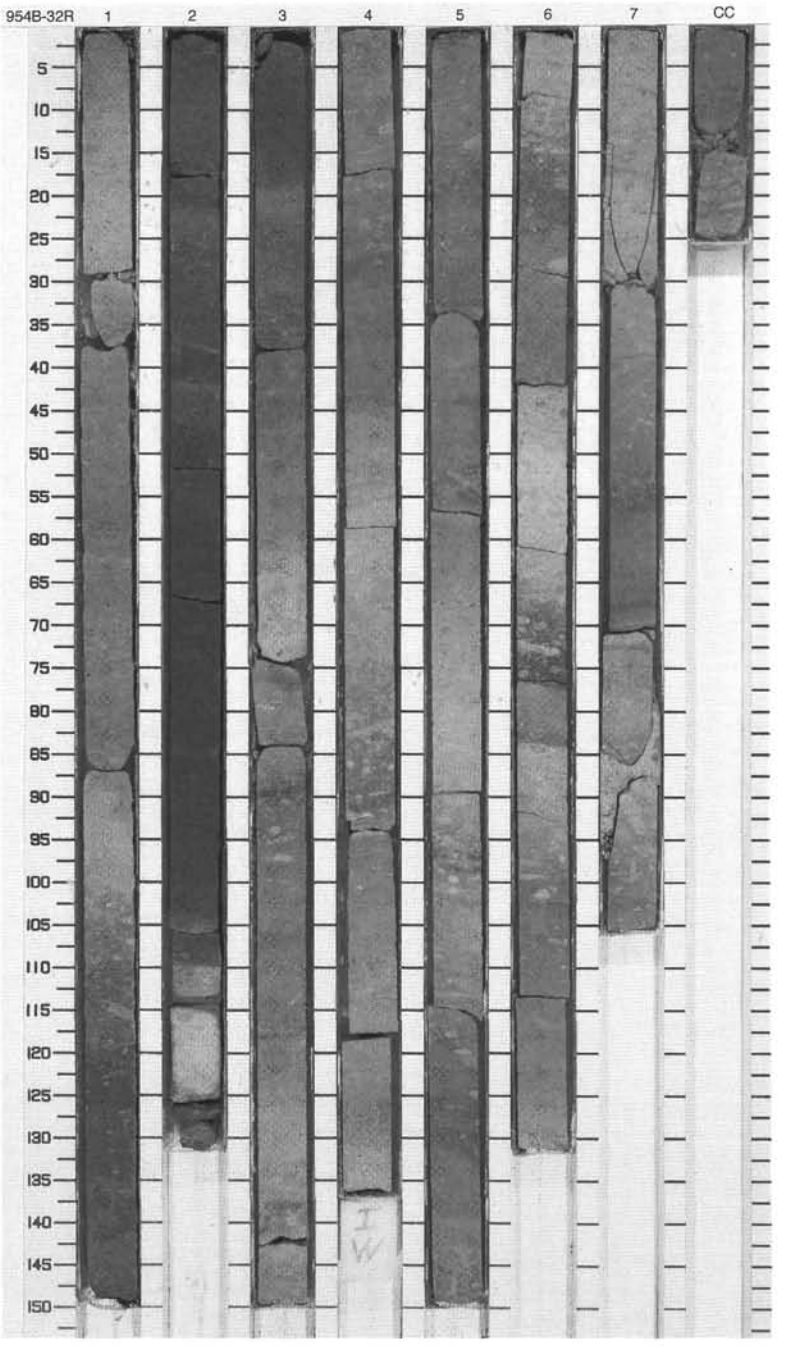
SITE 954 HOLE B CORE 31R CORED 369.4 - 378.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–8		1–7	late Miocene	F, F, F		S, O	2.5Y 3/1 to 10GY 3/0; 5Y 3/1; 5Y 3/1 to 7.5GY 3/1; 5Y 4/1 to 2.5Y 4/2; 5BG 4/1 to 2.5Y 4/2	NANNOFOSSIL MIXED SEDIMENTARY ROCK occurs as thin NANNOFOSSIL CLAYSTONE occurs SEDIMENTARY ROCK and NANNOFOSSIL CLAYSTONE Major Lithologies: NANNOFOSSIL MIXED SEDIMENTARY ROCK occurs as thin to medium beds with moderate to extensive bioturbation which grade into CRYSTAL LITHIC SANDSTONE AND SILTSTONE bases. NANNOFOSSIL CLAYSTONE occurs as thin beds with moderate to heavy bioturbation which grade into graded silty bases. NANNOFOSSIL CLAYSTONE sometimes contains dispersed black lithic sand-sized particles. Minor Lithologies: CRYSTAL LITHIC SANDSTONE AND SILTSTONE occur as thin graded, planar-laminated interbeds at the base of NANNOFOSSIL MIXED SEDIMENTARY ROCK and NANNOFOSSIL CLAYSTONE sequences. General Description: This core consists mainly of an alternation of the major and minor lithologies.



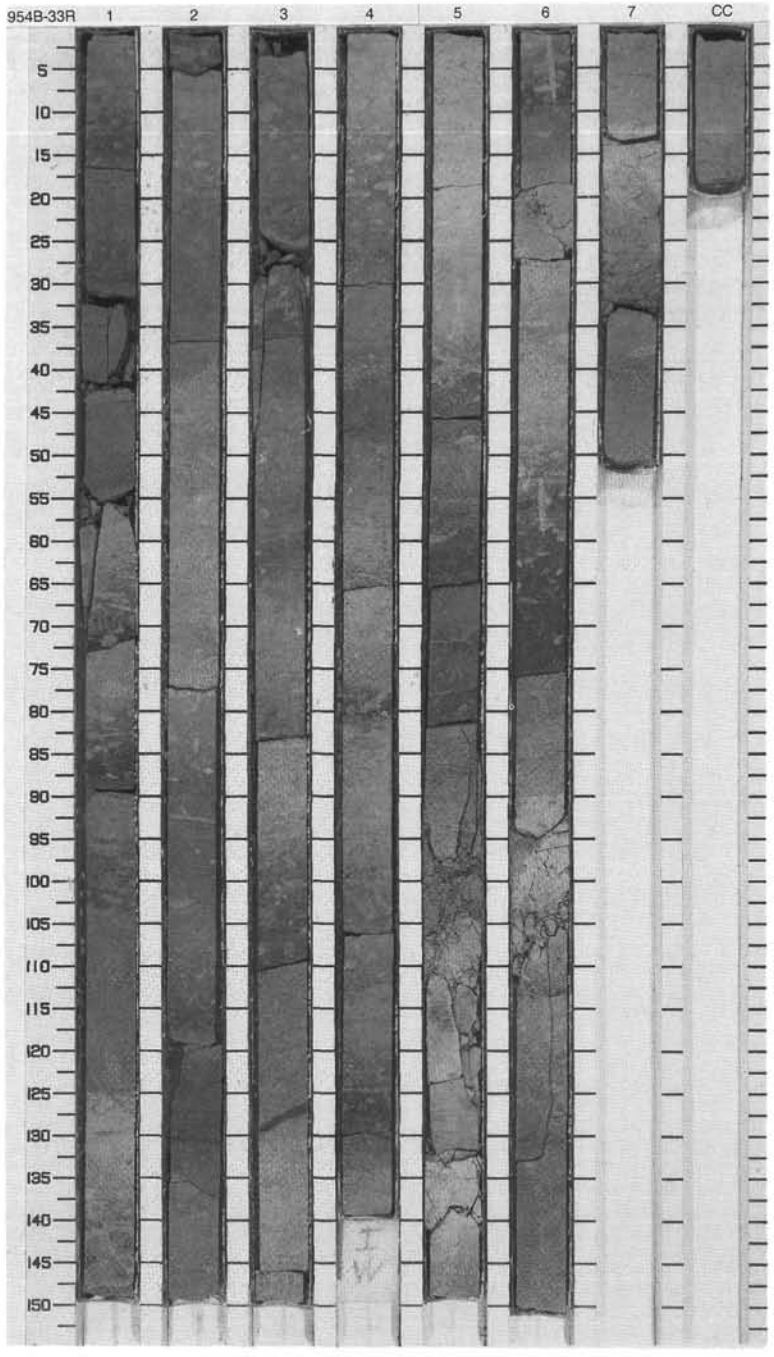
SITE 954 HOLE B CORE 32R CORED 378.9 - 388.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–9		1	late Miocene				2.5G 4/0 to 2.5Y 3/2	CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK, NANNOFOSSIL CLAYSTONE, and CLAYEY NANNOFOSSIL CHALK Major Lithologies: CLAYEY NANNOFOSSIL MIXED SEDIMENT is the dominant lithology and is generally moderately to strongly bioturbated and may contain abundantly scattered black, sand- and silt-sized crystals. Over some intervals, CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK grades into NANNOFOSSIL CLAYSTONE or CLAYEY NANNOFOSSIL CHALK with change in clay content. Minor Lithologies: LITHIC CRYSTAL SANDSTONE and LITHIC CRYSTAL SILTSTONE occur as thin interbeds with the clayey nannofossil mixed sedimentary rock and nannofossil claystone sequence.
		2					2.5G 3/2 to 10YR 5/1	
		3					2.5Y N3/0 to 10Y 4/1	
		4					5Y 4/1 to 5Y 5/1	
		5				I O	2.5Y 3/2 to 2.5Y 4/2	
		6					5Y 4/1 to 5Y 3/1	
		7						
		CC						



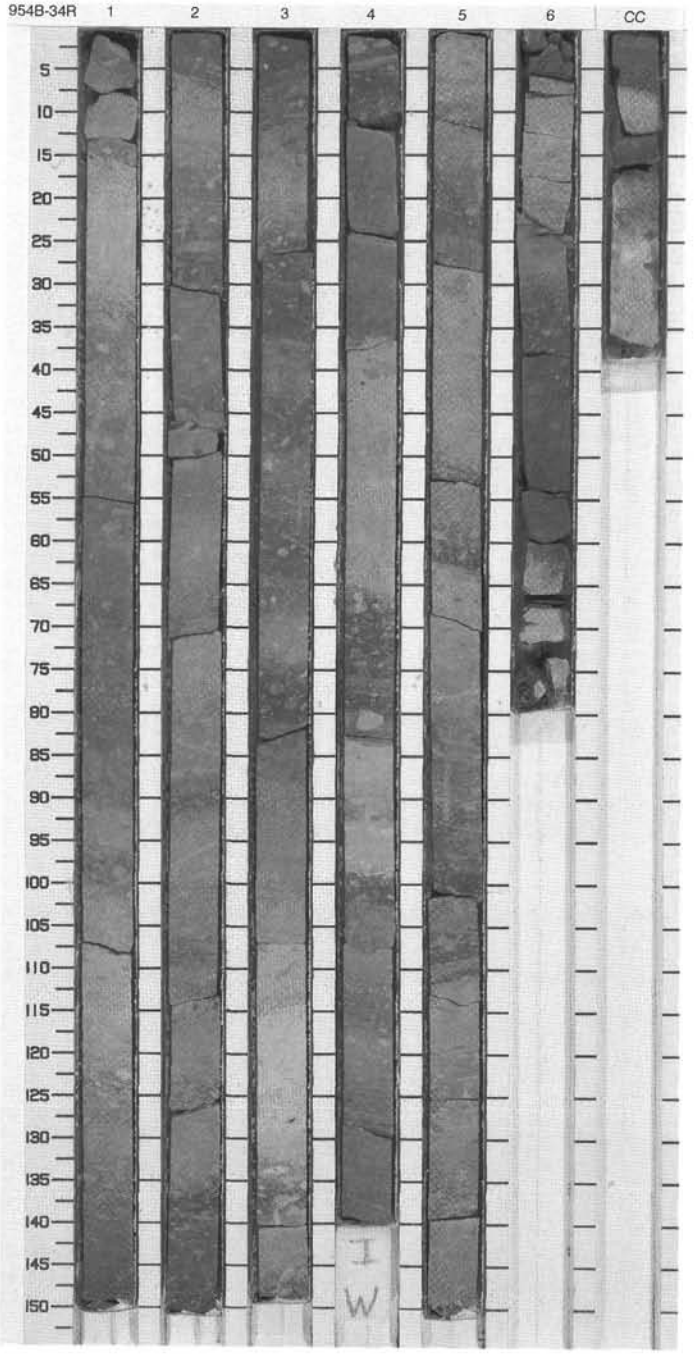
SITE 954 HOLE B CORE 33R CORED 388.5 - 398.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	late Miocene				2.5Y N4/0 to 5Y N4/0	NANNOFOSSIL CHALK WITH CLAY *Major Lithology:* This core consists mostly of NANNOFOSSIL CHALK WITH CLAY, which commonly have <0.5-cm-thick crystal lithic siltstone or sandstone at the base overlain by chalk with clay, overlain by thicker units of nannofossil chalk. Moderate bioturbation occurs in the lower parts of these sequences.
2		2						
3		3					5Y 5/1 to 10Y 4/1	
4		4					5Y 5/1	
5		5				I		
6		6					7.5YR N3/0 to 2.5Y N5/0	
7		7						
		CC						



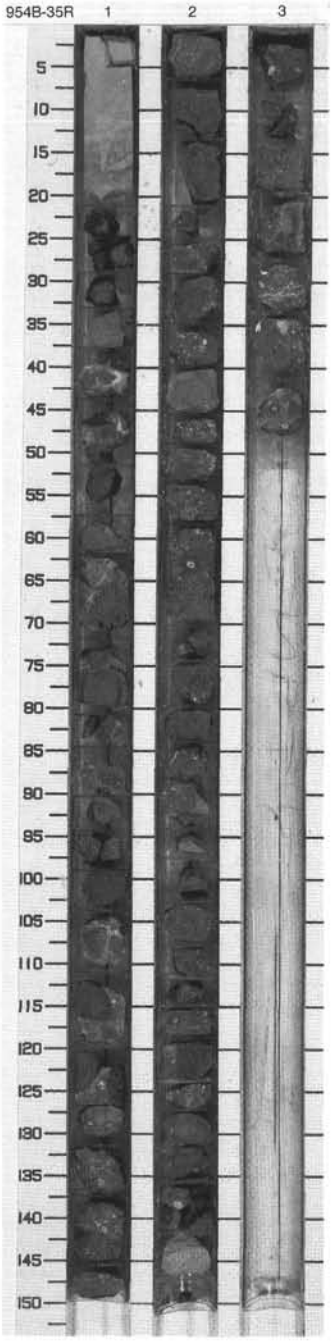
SITE 954 HOLE B CORE 34R CORED 398.1 - 407.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1–8		1	late Miocene				10Y 5/1 to 2.5Y N3/0	NANNOFOSSIL CHALK, NANNOFOSSIL CHALK WITH CLAY, and DOLOMITIC CLAYSTONE Major Lithologies: This core consists of interbedded NANNOFOSSIL CHALK and NANNOFOSSIL CHALK WITH CLAY. Moderate to strong bioturbation occurs throughout. Thin (<0.5 cm) discontinuous crystal lithic silt and sand occur throughout and give sharp basal contacts. DOLOMITIC CLAYSTONE occurs only in Section 6, 61–79 cm, and in the Core Catcher.
		2					2.5Y N3/0 to 5GY 4/1	
		3					5Y 5/1 to 10Y 5/1	
		4					5Y 4/1 to 10Y 4/1	
		5				I	5Y 5/1 to 5GY N5/0	
		6						
		CC					5Y 4/1	



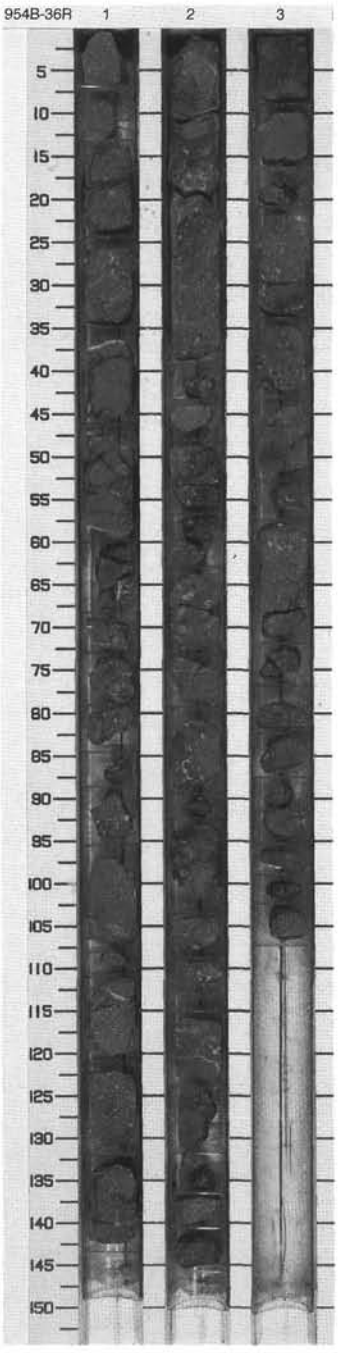
SITE 954 HOLE B CORE 35R CORED 407.8 - 417.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1					5PB 3/2 to 5Y 3/1	BASALTIC BRECCIA Major Lithology: BASALTIC BRECCIA forms a very thick bed that makes up almost the entire core. It is polymict and very poorly sorted. The larger clasts are subangular to subrounded, dark gray to black basalt and reddish brown oxidized basalt clasts. Clasts of both vesicular and nonvesicular basalt are present and many contain abundant large euhedral to subhedral olivine pseudomorphs of brownish orange iddingsite and other alteration products. Breccia also contains small clasts of highly vesicular basaltic glass now completely altered to greenish white clay and/or possibly zeolites. Rare clasts of pale brown dolomite and olivine phyric basalt are present. Clasts are held in a fine-grained matrix, which may be dolomitic. Clasts make up about 70% of the bed and the fine-grained matrix makes up 30%. In Section 1, the clasts, about 60% are vesicular and 40% nonvesicular, 70% are olivine phyric, and 30% aphyric. About 3%–5% of the basalt clasts are oxidized reddish-brown. In Section 2, clasts are dominantly nonvesicular (about 80%) and about 60% are porphyritic. Minor Lithologies: NANNOFOSSIL CHALK occurs as a thin, moderately bioturbated bed, which grades downward into NANNOFOSSIL CLAY in Section 1, 0–20 cm. General Description: Age: No biostratigraphically datable material.
2		2					7.5G 2.5/0 to 5PB 3/2	
3		3					5GY 3/1	



SITE 954 HOLE B CORE 36R CORED 417.3 - 426.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1					7.5GY 2.5/1 to 10GY 2.5/0	BASALTIC BRECCIA Major Lithology: BASALTIC BRECCIA makes up the entire core. It is polymict, clast supported, and very poorly sorted. The larger clasts are subangular to subrounded, dark gray to black basalt and reddish brown oxidized basalt. Vesicular basalt makes up about 30%–40%, and nonvesicular basalt 60%–70% of the total basalt clasts. The ratio of porphyritic to aphanitic basalt fragments is about 85:15. Phenocrysts within the basalts are largely altered olivine and pyroxene. There are two distinct types of basalt clast: commonly large pebble- or cobble-sized, highly porphyritic clasts, packed with large altered olivine and pyroxene phenocrysts; and sparsely porphyritic grains and clasts, which are typically smaller, and contain smaller phenocrysts. Smaller grains are sand- to lapilli-sized and include reddish brown altered basalt and white glassy basalt fragments. Clasts are held in a fine-grained, ?dolomitic matrix. White calcite-filled viens and veinlets cross some breccia fragments. General Description: Age: No biostratigraphically datable material.
2		2					5G 3/1 to 5BG 4/1	
3		3					5B 4/1	

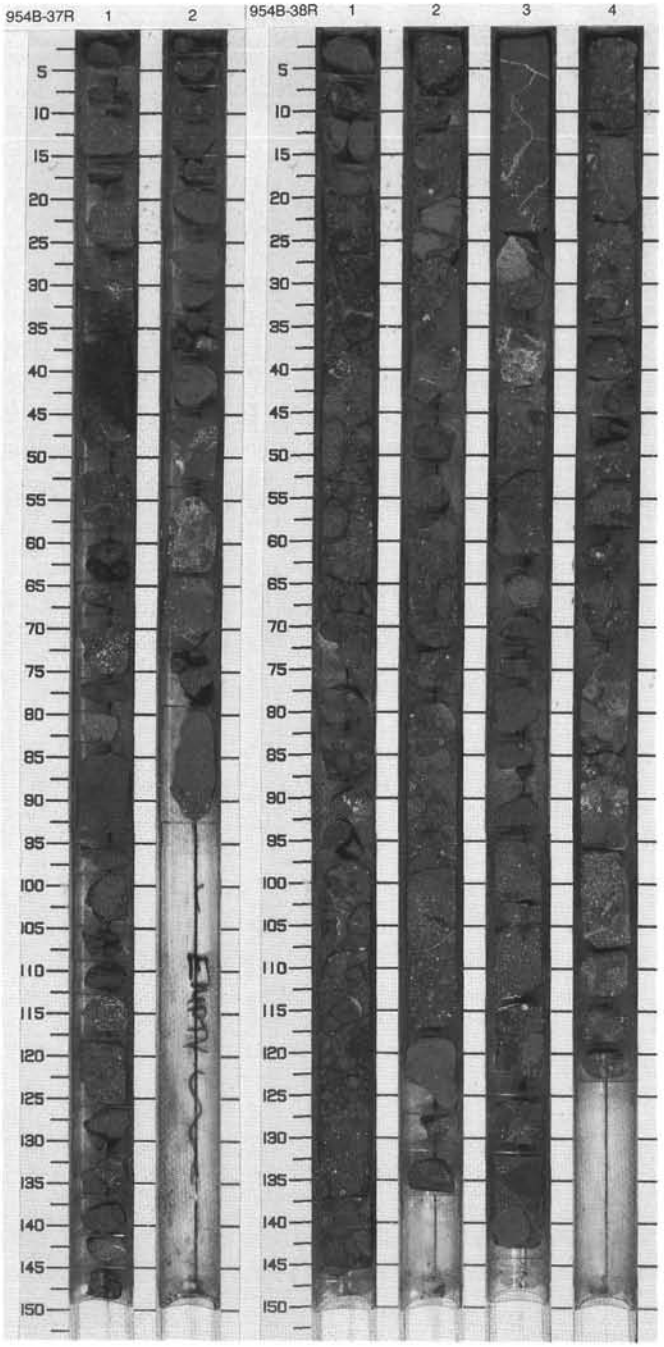


SITE 954 HOLE B CORE 37R CORED 426.8 - 436.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1					5B 4/1 to 7.5G 2.5/0	BASALTIC BRECCIA Major Lithology: BASALTIC BRECCIA makes up the entire core. It is very poorly sorted and matrix to clast supported. Most large clasts are nonvesicular, moderately to highly porphyritic basalts containing large phenocrysts of olivine (mostly altered) and pyroxene. Most of the smaller clasts are green to pale green altered glassy, mainly nonvesicular basalts, some of which have quenched rims. Matrix is of two types: 1) very dark green and noncalcareous, 2) grayish-white, fine grained and calcareous. Breccia consists of 80% clasts and 20% matrix. Small thin vienlets of calcite are common in Section 1. General Description: Age is not younger than late Miocene.
2		2					2.5G 2.5/0 to 5BG 4/1	

SITE 954 HOLE B CORE 38R CORED 436.4 - 441.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1					2.5G 2.5/1 to 5Y 3/1	BASALTIC BRECCIA Major Lithology: BASALTIC BRECCIA makes up the entire core. It is very poorly sorted and matrix supported. Clasts are subangular to subrounded, porphyritic to aphyric, moderately vesicular to nonvesicular basalt. Phenocrysts are feldspars, dark pyroxene, and altered olivine. Some of the basalt clasts are reddish brown and oxidized. Matrix is fine grained, noncalcareous, and contains small hyaloclastite fragments. Thin vienlets of calcite are common. General Description: Age is not younger than late Miocene.
2		2					2.5G 2.5/1 to 5B 4/1	
3		3					5GY 2/1 to 7.5G 3/0	
4		4					5GY 2/1 to 5GY 4/1	
5								



SITE 954 HOLE B CORE 39R CORED 441.2 - 446.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1 2 3		1 2 3					5BG 4/1 to 10Y 3/1 7.5G 2.5/0 to 10Y 3/1	BASALTIC BRECCIA Major Lithology: BASALTIC BRECCIA makes up the entire core. It is very poorly sorted and matrix to clast supported. Large clasts are highly vesiculated, porphyritic basalt and are angular to subangular in shape. Smaller clasts are predominantly glassy basalt fragments which may show quenched rims. Thin calcite vienlets are common. General Description: Age is not younger than late Miocene.