

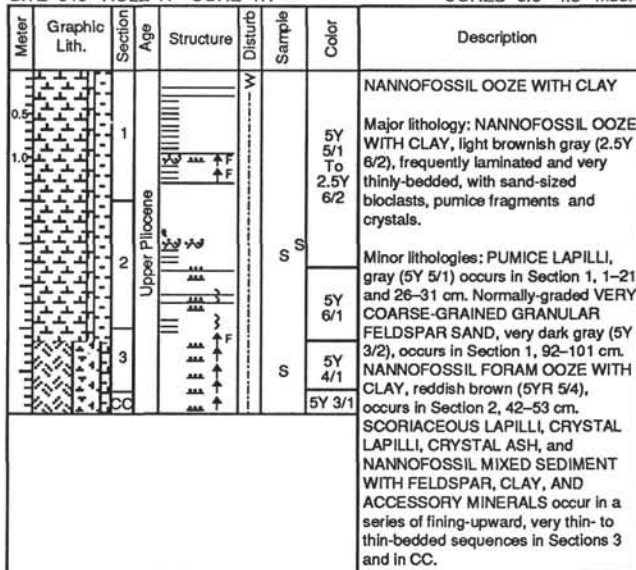
135-840A-1H
SMEAR SLIDE SUMMARY (%):

	2, 50	2, 62	3, 48
	D	D	D
TEXTURE:			
Sand	30	4	30
Silt	20	9	15
Clay	50	67	55

COMPOSITION:

Accessory minerals	1	Tr	18
Aragonite	3	5	5
Clay	20	20	15
Feldspar	---	1	13
Foraminifers	45	7	6
Glass	0	---	3
Nannofossils	31	67	40

SITE 840 HOLE A CORE 1H CORED 0.0 - 4.5 mbsf



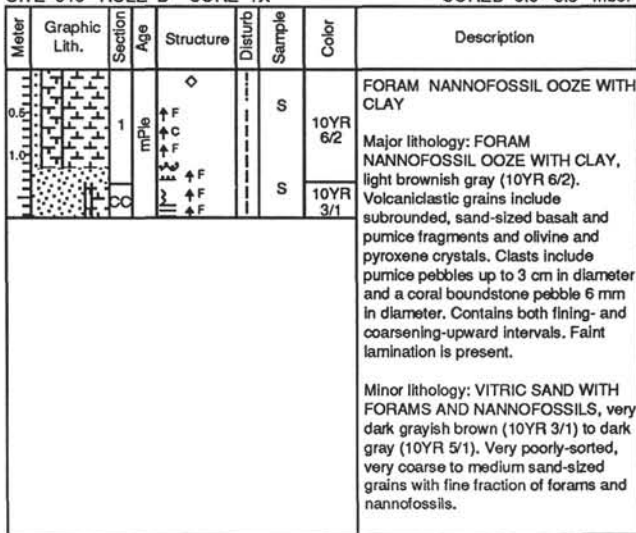
135-840B-1X
SMEAR SLIDE SUMMARY (%):

	1, 40	CC, 3
	M	M
TEXTURE:		
Sand	---	50
Silt	10	30
Clay	90	20

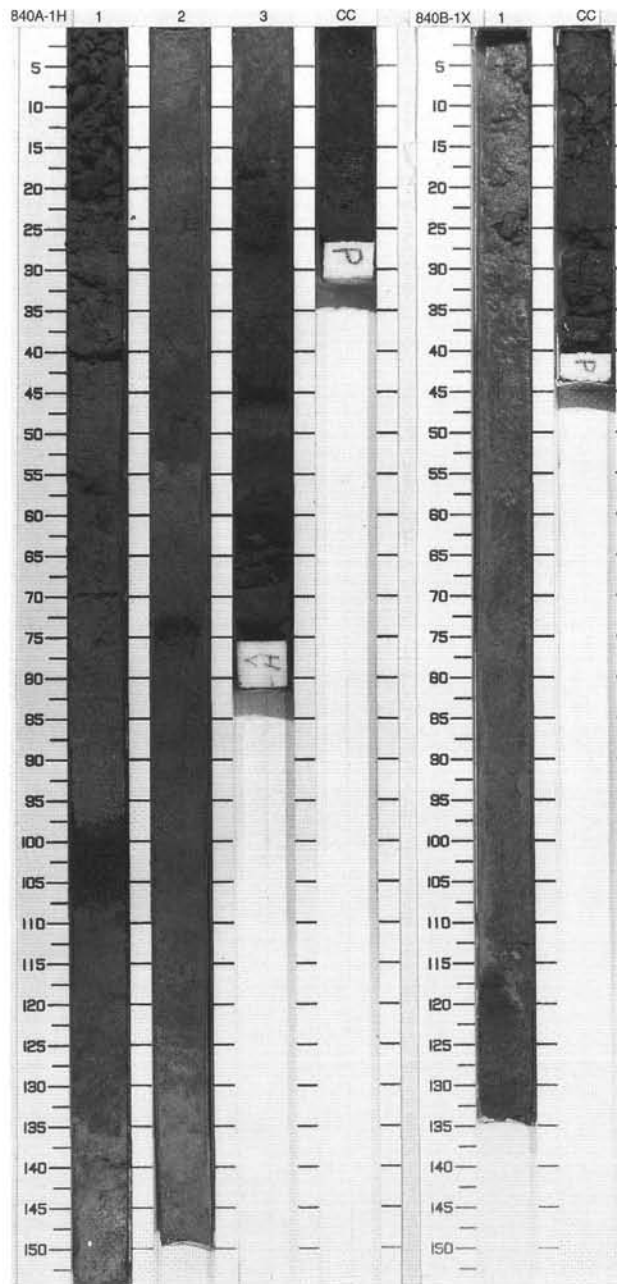
COMPOSITION:

Accessory minerals	2	5
Aragonite	2	Tr
Calcite	1	---
Clay	5	15
Feldspar	5	10
Foraminifers	25	20
Nannofossils	60	50

SITE 840 HOLE B CORE 1X CORED 0.0 - 9.5 mbsf



840B 2X NO RECOVERY



SITE 840 HOLE B CORE 3X CORED 18.9 - 28.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
5		CC					2.5Y 2/0	VOLCANIC SAND WITH FORAMS
<p>Major lithology: VOLCANIC SAND WITH FORAMS. Core catcher contained five grams of very coarse, moderately well-sorted, black (2.5Y 2/0) subrounded sand, composed of olivine, volcanic glass, basalt, pumice, pyroxene crystals, and limestone.</p> <p>Minor lithology: None.</p>								

SITE 840 HOLE B CORE 4X CORED 28.4 - 37.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
5		CC					2.5Y 7/0	VITRIC NANNOFOSSIL OOZE WITH FORAMS
<p>Major lithology: VITRIC NANNOFOSSIL OOZE WITH FORAMS, firm, light gray (2.5Y 7/0) to dark gray (2.5Y 4/0). Generally structureless, with a parting at 11 cm. Clast of altered pumice at 17 cm.</p> <p>Minor lithology: VOLCANIC SAND, black (2.5Y 2/0), poorly-sorted, with subrounded grains. Occurs in Section CC, 0-2 cm above a sharp, inclined contact with the major lithology.</p>								

840B 5X THROUGH 8X NO RECOVERY

135-840B-4X
SMEAR SLIDE SUMMARY (%):

	CC, 14
	D
TEXTURE:	
Sand	--
Silt	20
Clay	80
COMPOSITION:	
Accessory minerals	1
Foraminifers	10
Glass	25
Intraclasts	5
Nannofossils	58



135 840B-9X
SMEAR SLIDE SUMMARY (%):

CC, 4
D

TEXTURE:

Sand ---
Silt 30
Clay 70

COMPOSITION:

Discoaster Tr
Foraminifera Tr
Glass 35
Nannofossils 65

135 840B-10X
SMEAR SLIDE SUMMARY (%):

1, 18 CC, 5
D D

TEXTURE:

Sand --- 80
Silt 43 20
Clay 57 ---

COMPOSITION:

Accessory minerals --- 2
Foraminifera 3 ---
Glass 40 98
Nannofossils 57 Tr

SITE 840 HOLE B CORE 9X CORED 76.4 - 86.1 mbsf

Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
5		CC			S	2.5Y 7/0	VITRIC NANNOFOSSIL OOZE
10							Major lithology: VITRIC NANNOFOSSIL OOZE, light gray (2.5Y 7/0), firm and structureless.
15							Minor lithology: None.

SITE 840 HOLE B CORE 10X CORED 86.1 - 95.7 mbsf

Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
5		1 Pliocene			S	2.5Y 8/0	VITRIC NANNOFOSSIL OOZE
10		CC			S	2.5Y 6/0	Major lithology: VITRIC NANNOFOSSIL OOZE, white (2.5Y 8/0) to gray (2.5Y 6/0).
15							Minor lithology: VITRIC SILT, dark gray (5Y 4/1), occurs in Section CC, 0-7 cm.



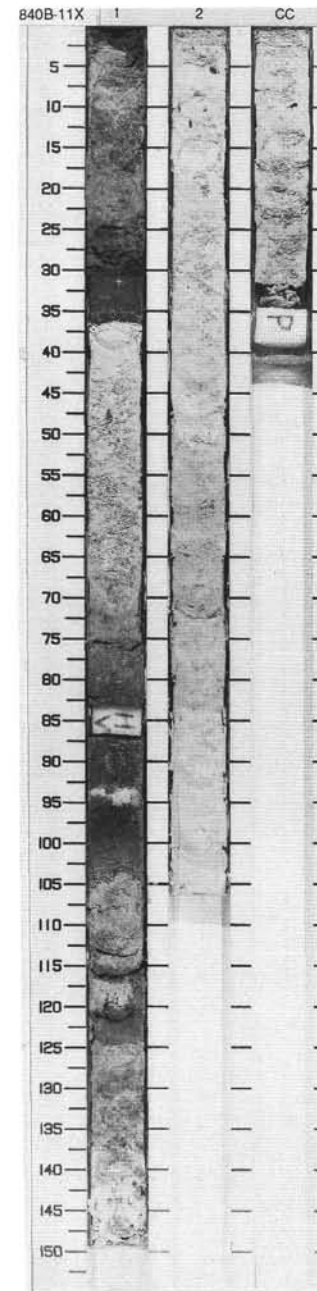
135-840B-11X
SMEAR SLIDE SUMMARY (%):

	SMEAR SLIDE SUMMARY (%):		
	1,33 D	1,99 D	2,42 D
TEXTURE:			
Sand	53	100	0
Silt	40	---	13
Clay	7	---	87
COMPOSITION:			
Accessory minerals	Tr	1	Tr
Clay	5	Tr	15
Feldspar	8	3	Tr
Foraminifers	Tr	---	8
Glass	85	96	10
Nannofossils	2	---	67

SITE 840 HOLE B CORE 11X

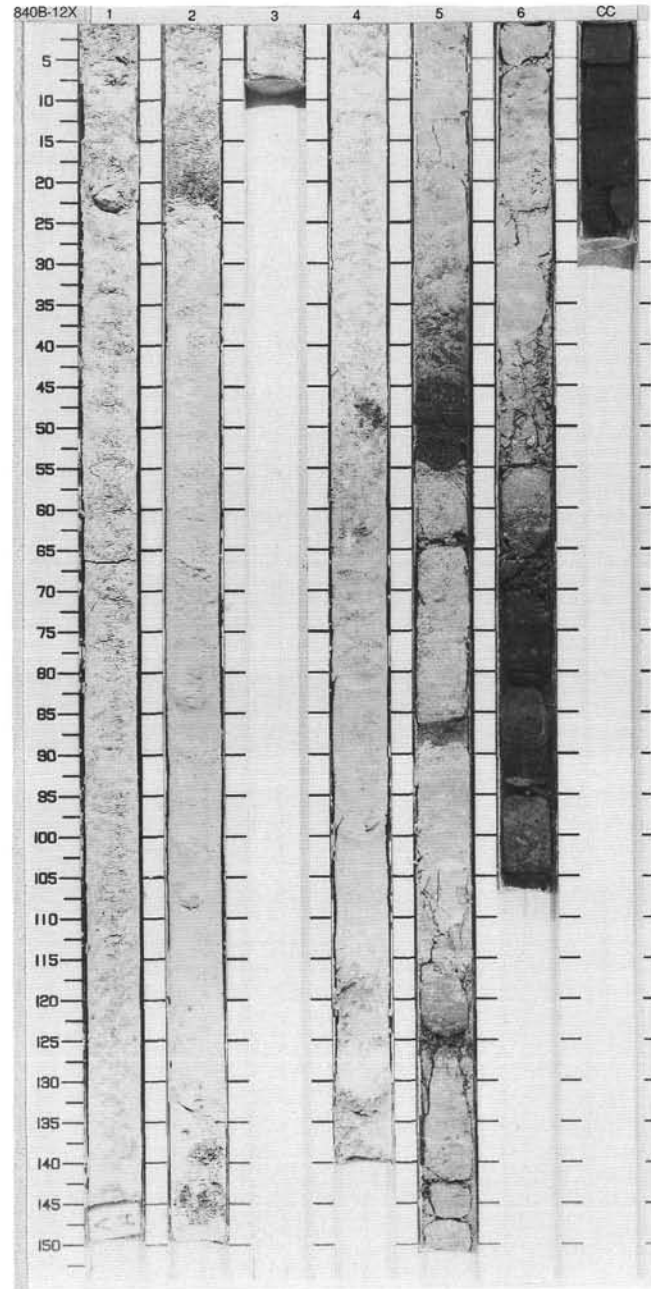
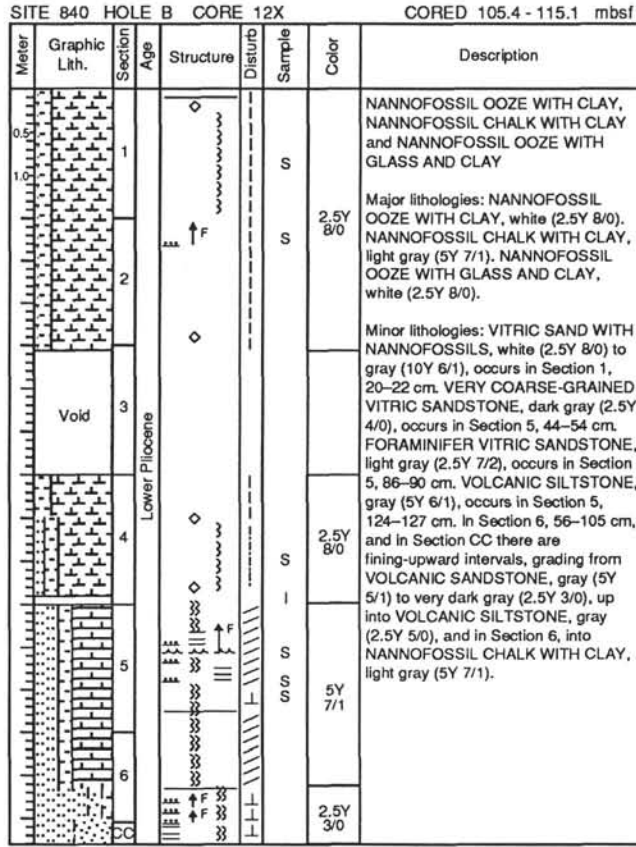
CORED 95.7 - 105.4 mbsf

Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
0		Lower Pliocene			S	10YR 5/1	VITRIC SAND, VITRIC SILT, and NANNOFOSSIL OOZE WITH CLAY AND GLASS
0.5					S	2.5Y 8/0	
1.0		N			S	5Y 5/1	Major lithology: Section 1 contains repeated fining-upward intervals, grading upward from a basal VITRIC SAND, gray (10Y 5/1), into VITRIC SILT, light gray (5Y 6/1), into NANNOFOSSIL OOZE WITH CLAY AND GLASS, white (2.5Y 8/0). The bases of these intervals occur in Section 1 at 2, 37, 93, 117, and 124 cm.
1.5					S	2.5Y 8/0	
<p>Minor lithology: A fining-upward bed of light gray (5Y 6/1) grading down into gray (5Y 5/1) COARSE VITRIC ASH occurs in Section 1, 94-105 cm.</p>							



135-840B-12X
SMEAR SLIDE SUMMARY (%):

	1, 83 D	2, 21 D	4, 95 D	5, 54 M	5, 88 M	5, 106 D
TEXTURE:						
Sand	---	45	---	25	100	---
Silt	2	25	15	65	---	17
Clay	98	30	85	10	---	83
COMPOSITION:						
Accessory minerals	---	Tr	---	1	1	Tr
Aragonite	Tr	---	---	---	---	---
Clay	15	5	15	3	---	15
Dolomite	---	Tr	---	---	---	---
Feldspar	Tr	2	---	6	1	Tr
Foraminifers	2	5	5	1	35	4
Glass	Tr	63	10	84	63	3
Nannofossils	83	25	70	5	---	78

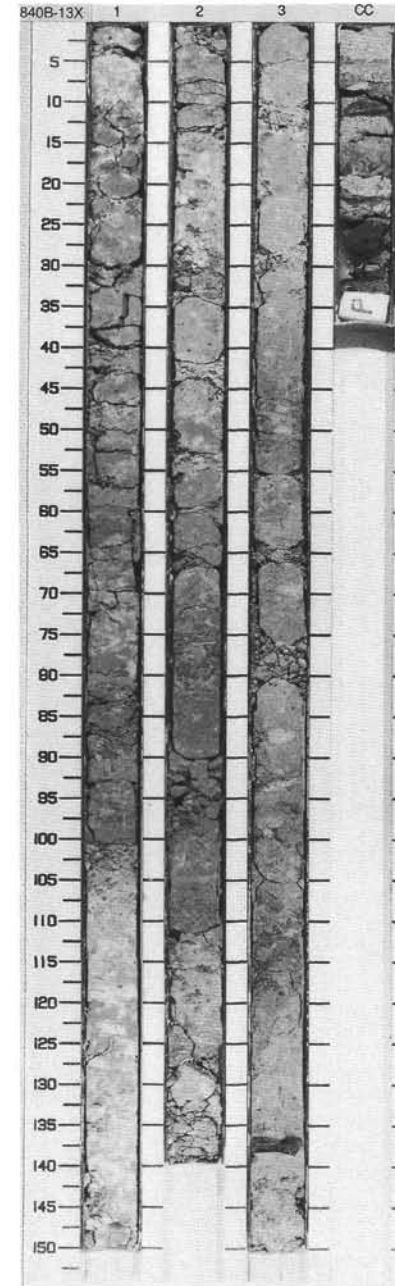


135-840B-13X
SMEAR SLIDE SUMMARY (%):

	2, 91 D	3, 138 M	CC, 26 M
TEXTURE:			
Sand	0	25	15
Silt	10	66	81
Clay	90	9	4
COMPOSITION:			
Accessory minerals	Tr	1	1
Clay	15	5	4
Feldspar	---	4	1
Foraminifers	4	1	Tr
Glass	5	84	92
Nannofossils	76	4	Tr
Opaques	---	1	2

SITE 840 HOLE B CORE 13X				CORED 115.1 - 124.8 mbsf			
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Description
0.5	[Lithology symbols]	1	Lower Pleistocene	[Structure symbols]	[Disturb symbols]	S 5Y 5/1 To 5Y 6/1	<p>NANNOFOSSIL CHALK WITH CLAY</p> <p>Major lithology: NANNOFOSSIL CHALK WITH CLAY, light gray (5Y 6/1) to gray (5Y 5/1). Heavily bioturbated, but traces of thin- and medium-bedding visible. Burrows up to 4 cm in diameter and 10-15 cm long. Both vertical and horizontal burrows common.</p> <p>Minor lithology: VITRIC SILT, dark gray (5Y 4/1), occurs in Section 3, 136-138 cm, and in Section CC, 9-11 and 24-33 cm. Vitric silt also occurs in other intervals, especially in the Section CC, but is strongly bioturbated.</p>
1.0	[Lithology symbols]	2		[Structure symbols]	[Disturb symbols]		
	[Lithology symbols]	3		[Structure symbols]	[Disturb symbols]		
	[Lithology symbols]	CC		[Structure symbols]	[Disturb symbols]		

840B 14X NO RECOVERY



SITE 840 HOLE B CORE 15X CORED 134.4 - 144.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
								NANNOFOSSIL CHALK WITH CLAY
								Major lithology: NANNOFOSSIL CHALK WITH CLAY, gray (2.5Y 6/1), heavily bioturbated. Occurs in Section CC, 0-11 cm.
								Minor lithology: None.

840B 16X NO RECOVERY

SITE 840 HOLE B CORE 17X CORED 153.8 - 163.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
								VOLCANIC GRAVEL
								Major lithology: VOLCANIC GRAVEL, very dark gray (10YR 3/0). Contains subangular to subrounded pumice lapilli, black volcanic lithic grains, and a fragment of volcanic sandstone with faint planar bedding.
								Minor Lithology: None.

840B 18X THROUGH 20X Entire core was given to paleontologists.

840B 21X NO RECOVERY



135 840B 22X
SMEAR SLIDE SUMMARY (%):

CC, a	
D	
TEXTURE:	
Sand	---
Silt	20
Clay	80
COMPOSITION:	
Clay	10
Discoaster	5
Glass	25
Nannofossils	60

SITE 840 HOLE B CORE 22X CORED 201.7 - 211.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
								<p>VITRIC NANNOFOSSIL CHALK WITH CLAY</p> <p>Major lithology: VITRIC NANNOFOSSIL CHALK WITH CLAY, firm, gray (7.5YR 6/0), with no sedimentary structures preserved.</p> <p>Minor lithology: VITRIC NANNOFOSSIL CHALK WITH CLAY, hard, gray (7.5 YR 6/0) fragments distributed throughout Section CC.</p>

840B 23X Entire core was given to paleontologists.

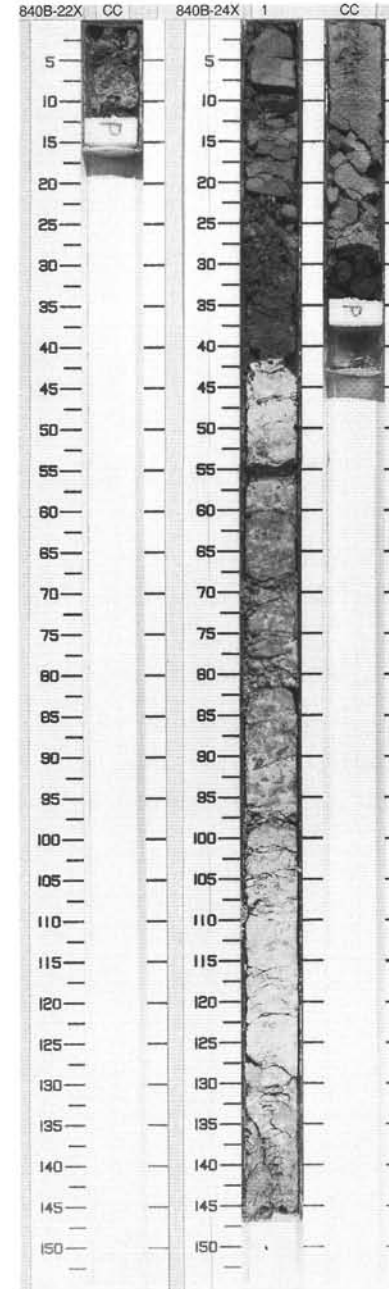
135 840B 24X
SMEAR SLIDE SUMMARY (%):

1, 44	CC, 32
D	D
TEXTURE:	
Sand	10 30
Silt	20 50
Clay	70 20
COMPOSITION:	
Accessory minerals	10 5
Clay	10 20
Feldspar	---
Foraminifers	5 2
Glass	10 67
Nannofossils	65 1

SITE 840 HOLE B CORE 24X CORED 221.0 - 230.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5		1	Lower Pliocene			S	7.5YR 5/0	<p>VITRIC SILTSTONE, VITRIC SANDY SILT and NANNOFOSSIL CHALK WITH CLAY</p> <p>Major lithologies: VITRIC SILTSTONE, gray (7.5YR 5/0), structureless, Section 1, 0-24 cm. VITRIC SANDY SILT, gray (7.5YR 5/0) from 24 to 41 cm. Wavy laminae in Section 1 from 35-36 cm and in Section CC, 5-28 cm. Has alternating gray (7.5YR 5/0) and white (7.5YR 8/0), planar laminae from 36-41 cm. NANNOFOSSIL CHALK WITH CLAY, white (7.5YR 8/0) to light gray (7.5 YR 7/0), moderately bioturbated in Section 1 from 49-54 and 100-130 cm. Highly bioturbated in Section 1 from 56-100 cm and 130-147 cm.</p> <p>Minor lithologies: NANNOFOSSIL OOZE WITH CLAY, GLASS AND ACCESSORY MINERALS, white (7.5YR 8/0), structureless, from 41 to 47 cm in Section 1. VOLCANIC SANDSTONE, black (7.5YR 2.5/0), structureless, in Section 1, 54 to 56 cm and in Section CC, 28-34 cm.</p>
1.0		CC				S	7.5YR 8/0	
						S	To 7.5YR 7/0	
						S	7.5YR 5/0	

840B 25X NO RECOVERY



135-840B-26X
SMEAR SLIDE SUMMARY (%):

	1, 14 M	1, 32 M	CC, 6 M
TEXTURE:			
Sand	60	5	10
Silt	20	10	80
Clay	20	85	10

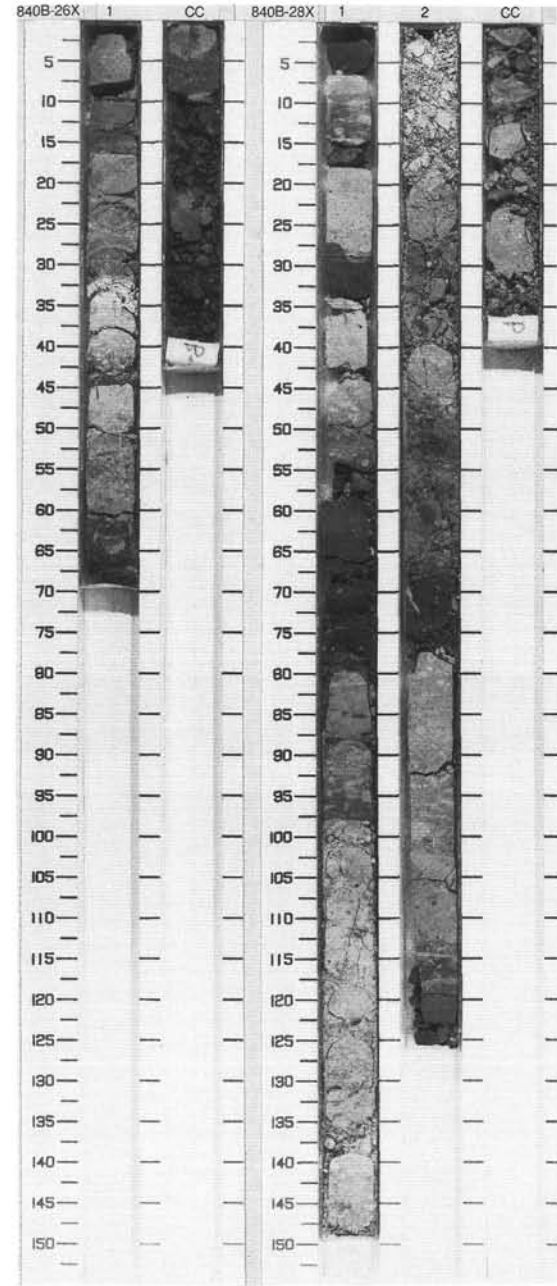
COMPOSITION:

Accessory minerals	20	Tr	10
Clay	10	10	10
Discoaster	---	Tr	---
Feldspar	---	---	Tr
Foraminifera	---	Tr	---
Glass	70	20	80
Nannofossils	Tr	70	Tr

SITE 840 HOLE B CORE 26X						CORED 240.4 - 250.0 mbsf		
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5		1	Lower Pliocene			S	7.5YR N 5/0	NANNOFOSSIL CHALK WITH CLAY AND FORAMS, VITRIC SILTSTONE WITH FORAMS AND NANNOFOSSILS and VITRIC SANDSTONE WITH VOLCANICS AND ACCESSORY MINERALS
1.0		CC				S	7.5YR N 3/0	
<p>General Description: Entire core shows varying degrees of induration, from firm, nannofossil ooze to indurated vitric siltstone. The major lithologies are interbedded.</p> <p>Major lithologies: NANNOFOSSIL CHALK WITH CLAY AND FORAMS, white (7.5YR 8/0) to gray (7.5YR 5/0), commonly bioturbated. Occurs in Section 1, 16-26, 33-43, and 45-61 cm, and in Section CC, 0-4 cm.</p> <p>VITRIC SILTSTONE WITH FORAMS AND NANNOFOSSILS, gray (7.5YR 5/0) to very dark gray (7.5YR 3/0). Occurs in Section 1, 0-12 and 61-69 cm. Bioturbation increases toward the top of these intervals. Planar laminations in Section 1, 65-69 cm.</p> <p>VITRIC SANDSTONE WITH VOLCANICS AND ACCESSORY MINERALS, dark gray (7.5YR 4/0) to very dark gray (7.5YR 3/0), planar-laminated with alternating, millimeter-scale dark and light bands.</p> <p>Minor lithology: NANNOFOSSIL OOZE WITH CLAY AND VOLCANIC GLASS, gray (7.5YR 5/0), firm, slightly bioturbated. Occurs in Section 1, 26-33 cm.</p>								

840B 27X NO RECOVERY

SITE 840 HOLE B CORE 28X						CORED 259.7 - 269.4 mbsf		
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5		1	Lower Pliocene			V	5Y 7/1 To 7.5YR 8/0	VITRIC NANNOFOSSIL CHALK, NANNOFOSSIL CHALK, and VITRIC SILTSTONE
1.0		CC						7.5YR 7/0

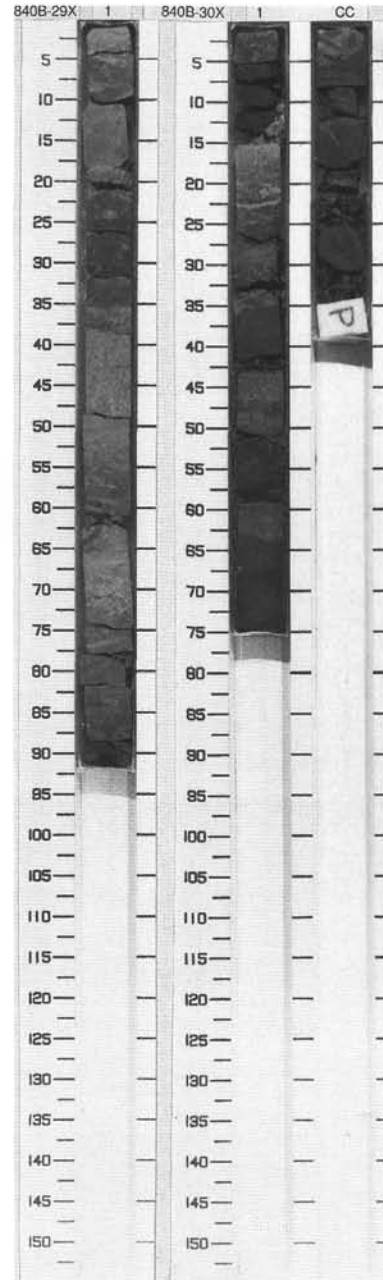


SITE 840 HOLE B CORE 29X CORED 269.4 - 279.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5		1	Pli-Mio				10Y 4/1 to 10Y 6/1	<p>NANNOFOSSIL CHALK, VITRIC SILTSTONE, and VITRIC SANDSTONE</p> <p>General Description: The major lithologies are interbedded.</p> <p>Major lithologies: NANNOFOSSIL CHALK, light gray (7.5 YR 5/0) to dark greenish gray (10Y 5/1), and heavily bioturbated, occurs between 0-5 cm, 10-21 cm, 35-60 cm, and 62-84 cm. This lithology is interbedded with heavily bioturbated VITRIC SILTSTONE, dark greenish gray (10Y 4/1) to black (2.5Y 2/0), occurring at 5-10 cm, 32-35 cm, and 89-92 cm. Normally graded VITRIC SANDSTONE, very dark gray (5Y 3/1) to black (2.5Y 2/0), occurs at 21-32 cm and 60-62 cm.</p> <p>Minor lithology: None.</p>

SITE 840 HOLE B CORE 30X CORED 279.1 - 288.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		CC	Pli-Mio				7.5YR 2/0	<p>VITRIC SILTSTONE and NANNOFOSSIL CHALK WITH FORAMS</p> <p>General Description: The major lithologies are interbedded.</p> <p>Major Lithologies: Bioturbated VITRIC SILTSTONE, gray (7.5YR 5/0) to black (7.5YR 2/0). Planar lamination and fining upward sequences occur in Section 1, 58-95 cm and 24-29 cm. Heavily bioturbated NANNOFOSSIL CHALK WITH FORAMS, light gray (7.5YR 7/0) to gray (7.5YR 5/0), occurs in Section 1, 15-34 cm, 43-50 cm and 58-63 cm.</p> <p>Minor lithology: VITRIC SAND, gray (7.5YR 5/0) to black (7.5YR 2/0), fining-upward, planar-laminated intervals.</p>



135-840B-31X
SMEAR SLIDE SUMMARY (%):

	1,44	CC, 20
TEXTURE:	D	D
Sand	---	---
Silt	---	85
Clay	---	15

COMPOSITION:

Accessory minerals	---	Tr
Clay	---	15
Feldspar	---	10
Foraminifers	5	---
Glass	2	75
Magnetite	Tr	---
Nannofossils	85	---
Opaques	---	Tr
Plagioclase	7	---
Pyroxene	1	---

SITE 840 HOLE B CORE 31X

CORED 288.8 - 298.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5		1	1	3	↑ F	T S	7.5YR 7/0	NANNOFOSSIL CHALK WITH GLASS AND FORAMS and VITRIC SILTSTONE WITH FELDSPAR AND CLAY
<p>General Description: The major lithologies are interbedded.</p> <p>Major lithologies: NANNOFOSSIL CHALK WITH GLASS AND FORAMS, light gray (7.5YR 7/0), heavily bioturbated with very thin layers of vitric silt and sand. VITRIC SILTSTONE WITH FELDSPAR AND CLAY, gray (7.5YR 4/0), with alternating thickly- and thinly-laminated intervals and heavily bioturbated intervals. Chemically altered VITRIC SILT- STONE, dark gray (10YR 3/1), occurs in Section CC, 25-28 cm.</p> <p>Minor lithology: VITRIC SANDSTONE, gray (7.5YR 4/0), occurs in Section CC, 12-13 cm.</p>								

135-840B-32X
SMEAR SLIDE SUMMARY (%):

	1, 18	1, 31
TEXTURE:	D	D
Sand	15	2
Silt	70	60
Clay	15	38

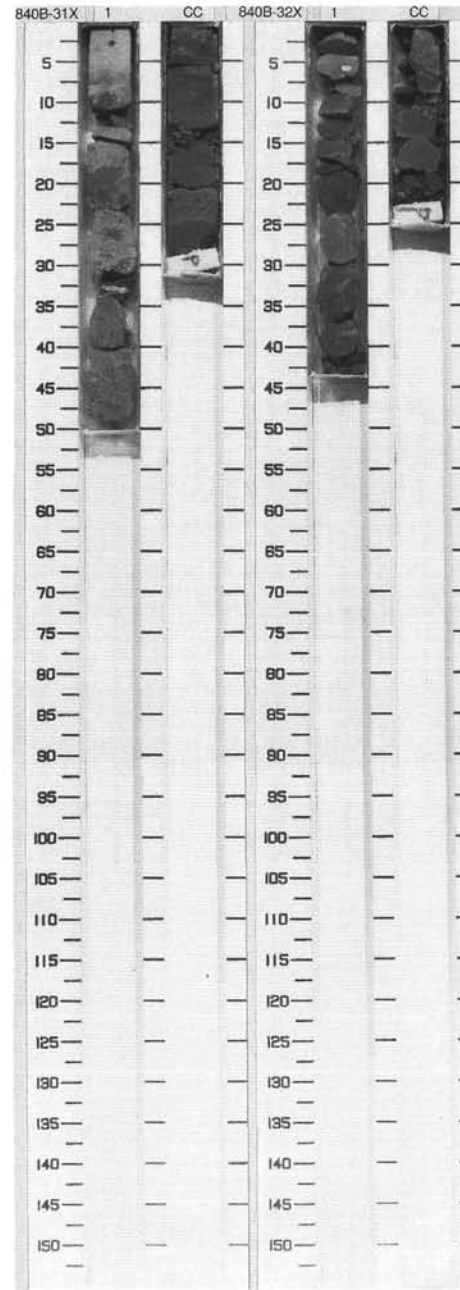
COMPOSITION:

Accessory minerals	1	---
Clay	10	18
Feldspar	5	---
Foraminifers	1	2
Glass	79	50
Nannofossils	4	20
Plagioclase	---	10

SITE 840 HOLE B CORE 32X

CORED 298.5 - 308.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5		1	1	3	↑ F	5	10Y 5/1	VITRIC SILTSTONE WITH CLAY
<p>Major lithology: VITRIC SILTSTONE WITH CLAY, gray (10Y 5/1) to dark gray (10Y 4/1), heavily bioturbated throughout with thin planar lamination.</p> <p>Minor lithology: None.</p>								



135-840B-33X
SMEAR SLIDE SUMMARY (%):

TEXTURE:	1, 18		1, 19		1, 113	
	D	M	D	M	D	M
Sand	80	85	—	—	—	—
Silt	20	15	45	—	—	—
Clay	—	—	56	—	—	—

COMPOSITION:

Accessory minerals	—	1	1
Clay	—	—	39
Feldspar	—	6	3
Foraminifers	Tr	—	4
Glass	64	93	30
Magnetite	Tr	—	—
Nannofossils	—	—	15
Plagioclase	5	—	—
Pore space	25	—	—
Pyroxene	1	—	—
Volcanic ash	5	—	—
Zircon	—	—	8

135-840B-34X
SMEAR SLIDE SUMMARY (%):

TEXTURE:	1, 60		CC, 30	
	D	D	D	D
Sand	—	10	—	—
Silt	10	65	—	—
Clay	90	25	—	—

COMPOSITION:

Accessory minerals	1	5
Clay	30	20
Feldspar	—	15
Foraminifers	4	1
Glass	4	55
Nannofossils	60	4

SITE 840 HOLE B CORE 33X

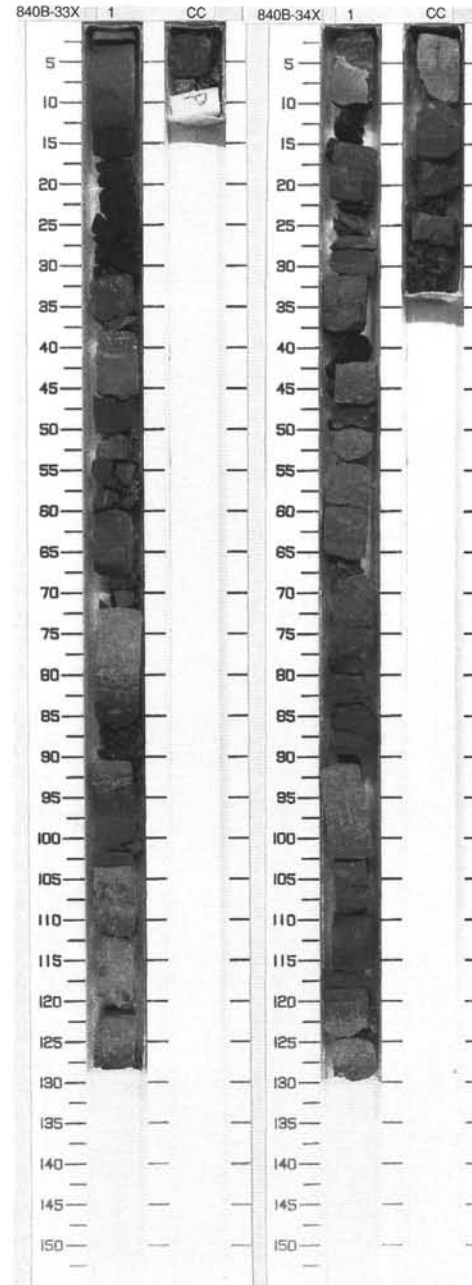
CORED 308.2 - 317.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.5		1				S T S	5Y 3/1 To 5Y 5/1	<p>VITRIC SANDSTONE, VITRIC SILTSTONE and NANNOFOSSIL CHALK</p> <p>General Description: The major lithologies are interbedded.</p> <p>Major lithologies: VITRIC SILTSTONE and VITRIC SANDSTONE, gray (5Y 5/1) to very dark gray (5Y 3/1) grading up into NANNOFOSSIL CHALK, very dark gray (5Y 3/1). The upper parts of NANNOFOSSIL CHALK and VITRIC SILTSTONE intervals are heavily bioturbated. The sandstones and siltstones are thinly to thickly, planar-, wedge-planar, and trough-cross-laminated.</p> <p>Minor lithology: Heavily bioturbated intervals of VITRIC CLAY WITH NANNOFOSSILS, very dark gray (5Y 3/1) occur within the NANNOFOSSIL CHALK.</p>

SITE 840 HOLE B CORE 34X

CORED 317.8 - 327.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1	Pliocene - Miocene			S S	5Y 2.5/1 To 5Y 7/1 5Y 7/1	<p>VITRIC SANDSTONE, VITRIC SILTSTONE, CLAYEY VITRIC NANNOFOSSIL CHALK and NANNOFOSSIL CHALK</p> <p>General Description: The major lithologies are interbedded.</p> <p>Major lithologies: VITRIC SANDSTONE, black (5Y 2.5/1), VITRIC SILTSTONE, black (5Y 2.5/1) to gray (5Y 5/1), CLAYEY VITRIC NANNOFOSSIL CHALK, gray (5Y 5/1) to light gray (5Y 7/1). NANNOFOSSIL CHALK is usually heavily bioturbated. Thin sand and silt layers are mixed with the chalks due to burrowing. A fining-upward gradation occurs from sandstone, into siltstone and into chalk. Sandstones and siltstones have very thin planar-, wedge-planar, and trough cross-lamination.</p> <p>Minor lithology: None.</p>



135-840B-35X
SMEAR SLIDE SUMMARY (%):

	1,17	1,40	1,83	1,110	1,113	2,70	2,90
	M	M	D	D	D	M	D
TEXTURE:							
Sand	30	25	---	5	---	---	10
Silt	65	70	20	30	4	12	80
Clay	5	5	80	65	96	88	10

COMPOSITION:

Accessory minerals	5	1	Tr	---	Tr	2	---
Clay	3	3	44	58	20	48	5
Feldspar	35	15	1	---	Tr	2	---
Foraminifers	2	2	---	1	1	---	---
Glass	53	77	20	40	3	8	30
Goethite	---	---	---	Tr	---	---	Tr
Inorganic calcite	---	---	---	Tr	---	---	Tr
Magnetite	---	---	---	Tr	---	---	1
Nannofossils	2	2	35	Tr	76	40	Tr
Plagioclase	---	---	---	1	---	---	60
Pyroxene	---	---	---	Tr	---	---	3
Zoölite	---	---	---	---	---	---	Tr

SMEAR SLIDE SUMMARY (%):

	3,28
	M
TEXTURE:	
Sand	5
Silt	90
Clay	5

COMPOSITION:

Accessory minerals	2
Clay	3
Feldspar	8
Glass	85
Nannofossils	2

135-840B-36X
SMEAR SLIDE SUMMARY (%):

	1,18	1,46
	M	M
TEXTURE:		
Sand	5	55
Silt	85	40
Clay	10	5

COMPOSITION:

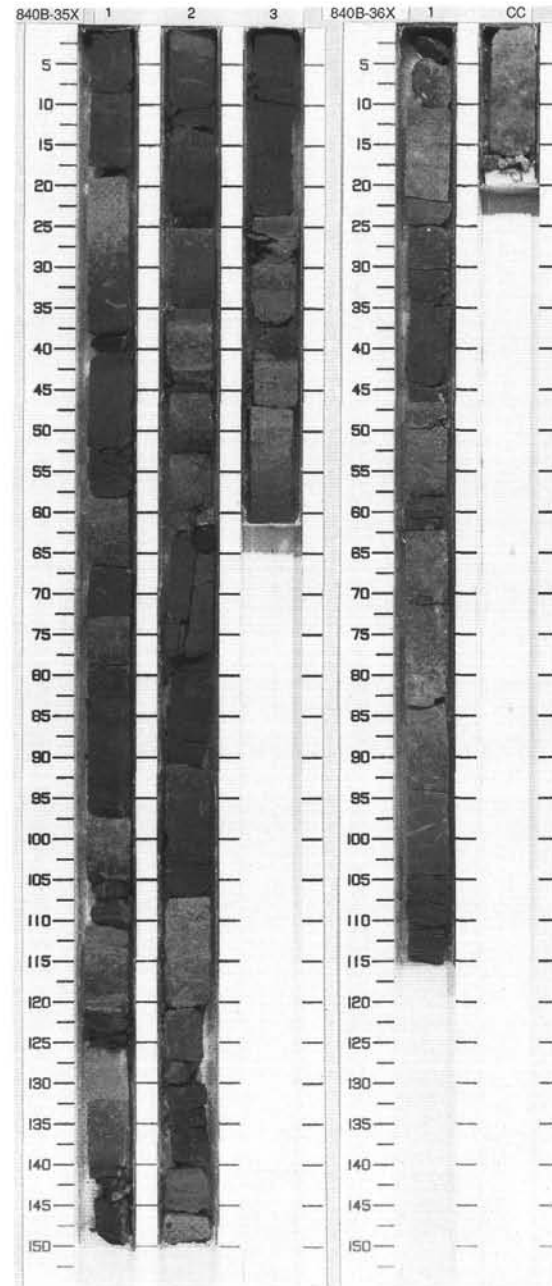
Accessory minerals	2	5
Clay	8	3
Feldspar	15	20
Foraminifers	---	3
Glass	75	69
Nannofossils	---	Tr

SITE 840 HOLE B CORE 35X CORED 327.5 - 332.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5	[Lithology symbols]	1	Pliocene-Miocene	[Structure symbols]		S	2.5Y 6/0 To 2.5Y 3/0	VITRIC SILTSTONE and CLAYEY NANNOFOSSIL CHALK General Description: The major lithologies are interbedded. Major lithologies: VITRIC SILTSTONE, black (2.5Y 2/0) to gray (2.5Y 4/1), fines upward into CLAYEY NANNOFOSSIL CHALK, light gray (2.5Y 6/0) with thin planar- and trough cross-laminations and heavy bioturbation. Thin silt and sand layers have sediment mixing and deformation of laminae due to bioturbation.
1.0						S		
1.5						S		
2.0	[Lithology symbols]	2	Pliocene-Miocene	[Structure symbols]		S	5Y 6/1	Minor lithology: VITRIC SANDSTONE, black (2.5Y 2/0), occurs at the bases of fining-upward intervals with flaser bedding, and planar and wedge-planar laminations. NANNOFOSSIL CLAY, gray (2.5Y 5/1) and NANNOFOSSIL CLAY WITH GLASS, gray (2.5Y 5/1), present in thin, heavily bioturbated layers occur within CLAYEY NANNOFOSSIL CHALKS.
2.5						S		
3.0						S		

SITE 840 HOLE B CORE 36X CORED 332.4 - 337.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5	[Lithology symbols]	1	Upper Miocene	[Structure symbols]		S	5Y 5/1 25Y 6/1 5GY 4/1	VITRIC SILT WITH FELDSPAR, NANNOFOSSIL CHALK WITH CLAY and CLAYEY NANNOFOSSIL CHALK General Description: The major lithologies are interbedded. Major lithology: VITRIC SILT WITH FELDSPAR, olive gray (5Y 5/2) to greenish gray (5GY 5/1), commonly bioturbated and faintly laminated. Silt grades up into heavily bioturbated NANNOFOSSIL CHALK WITH CLAY and CLAYEY NANNOFOSSIL CHALK, dark greenish gray (5GR 4/1). Minor lithology: Planar-, wavy-, and wedge planar-laminated FINE-GRAINED VITRIC SANDSTONE with alternating dark gray (2.5Y 3/1) and light gray (2.5Y 6/1) laminations occurs in Section 1, 106-116 cm.
1.0						S		
1.5						S		



135-840B-37X
SMEAR SLIDE SUMMARY (%):

	1,139
	D
TEXTURE:	
Sand	—
Silt	95
Clay	5
COMPOSITION:	
Clay	5
Glass	68
Inorganic calcite	2
Magnetite	Tr
Plagioclase	1
Pore space	24
Volcanic ash	Tr

135-840B-38X
SMEAR SLIDE SUMMARY (%):

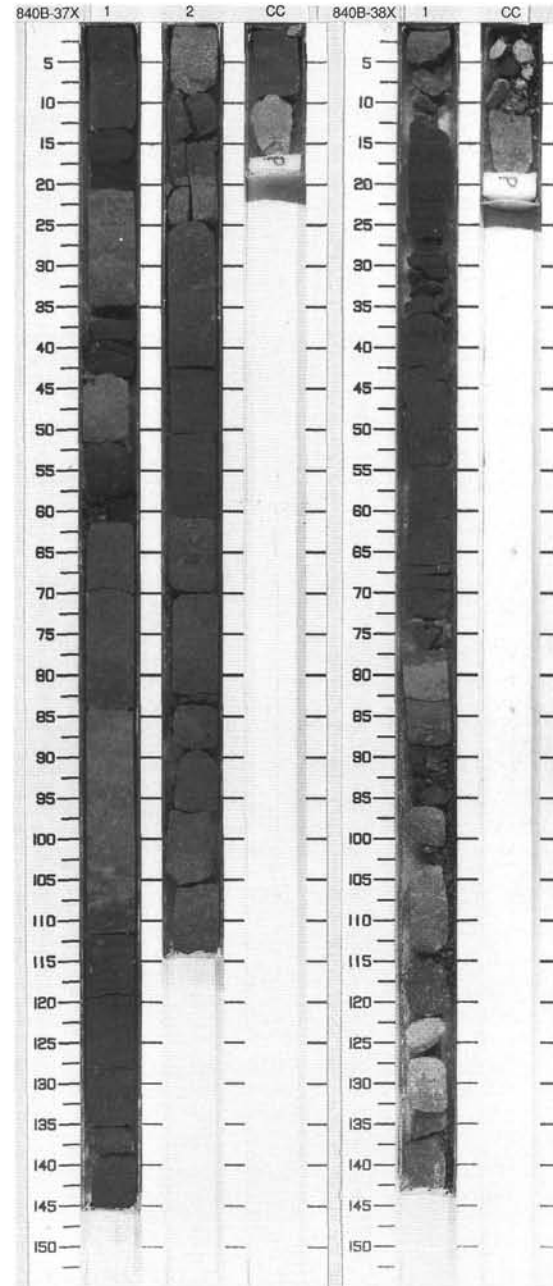
	1,47	1,111
	M	D
TEXTURE:		
Sand	10	—
Silt	67	20
Clay	23	80
COMPOSITION:		
Accessory minerals	1	1
Clay	8	45
Feldspar	2	2
Foraminifers	1	1
Glass	73	15
Nannofossils	15	35

SITE 840 HOLE B CORE 37X CORED 337.4 - 347.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5	[Symbol]	1	Upper Miocene	[Symbol]		T	5Y 5/1 To 5GY 4/1	<p>VITRIC SANDSTONE, CLAYEY NANNOFOSSIL CHALK WITH GLASS and VITRIC SILTSTONE</p> <p>Major lithologies: NANNOFOSSIL CHALK WITH CLAY and CLAYEY NANNOFOSSIL CHALK WITH GLASS, gray (5Y 5/1) to greenish gray (5GR 4/1). VITRIC SILTSTONE, very dark gray (2.5Y 3/0), with abundant thin planar, trough cross, wavy, and wedge-planar laminations. Climbing ripples occur in Section 2, 49–50 cm, and in Section 1, 136–137 cm. This lithology grades upward into heavily bioturbated NANNOFOSSIL CHALK WITH CLAY.</p> <p>Minor lithologies: NANNOFOSSIL CHALK WITH CLAY and CLAYEY NANNOFOSSIL CHALK WITH GLASS grade into NANNOFOSSIL CLAY and NANNOFOSSIL CLAY WITH GLASS, gray (5Y 5/1) to greenish gray (2.5Y 3/0).</p>
1.0	[Symbol]	2	Upper Miocene	[Symbol]			2.5Y 3/0	

SITE 840 HOLE B CORE 38X CORED 347.1 - 356.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5	[Symbol]	1	Upper Miocene	[Symbol]		S	5Y 4/1	<p>VITRIC SILTSTONE and NANNOFOSSIL CLAYSTONE WITH GLASS</p> <p>Major lithologies: Dark gray (5Y 4/1) thin beds of planar-, wavy-, lenticular, and trough cross-laminated VITRIC SILTSTONE grades into heavily bioturbated, gray (5Y 5/1) NANNOFOSSIL CLAYSTONE WITH GLASS. In Section 1, 76–145 cm, there is an alternating sequence of these two lithologies, with each bed being 8–10 cm thick.</p> <p>Minor lithology: Thin planar-, lenticular-, and wavy laminated VITRIC SANDSTONE, black (5Y 2.5/1) to very dark gray (5Y 3/1), occurs in Section 1, 12–31 cm.</p>
1.0	[Symbol]	1	Upper Miocene	[Symbol]		S	5Y 5/1	



135-840B-39X
SMEAR SLIDE SUMMARY (%):

	1,100	2,64
D	D	D

TEXTURE:

Sand	---	5
Silt	36	56
Clay	64	40

COMPOSITION:

Accessory minerals	Tr	1
Clay	8	25
Feldspar	Tr	4
Foraminifers	4	Tr
Glass	32	55
Nannofossils	56	15

135-840B-40X
SMEAR SLIDE SUMMARY (%):

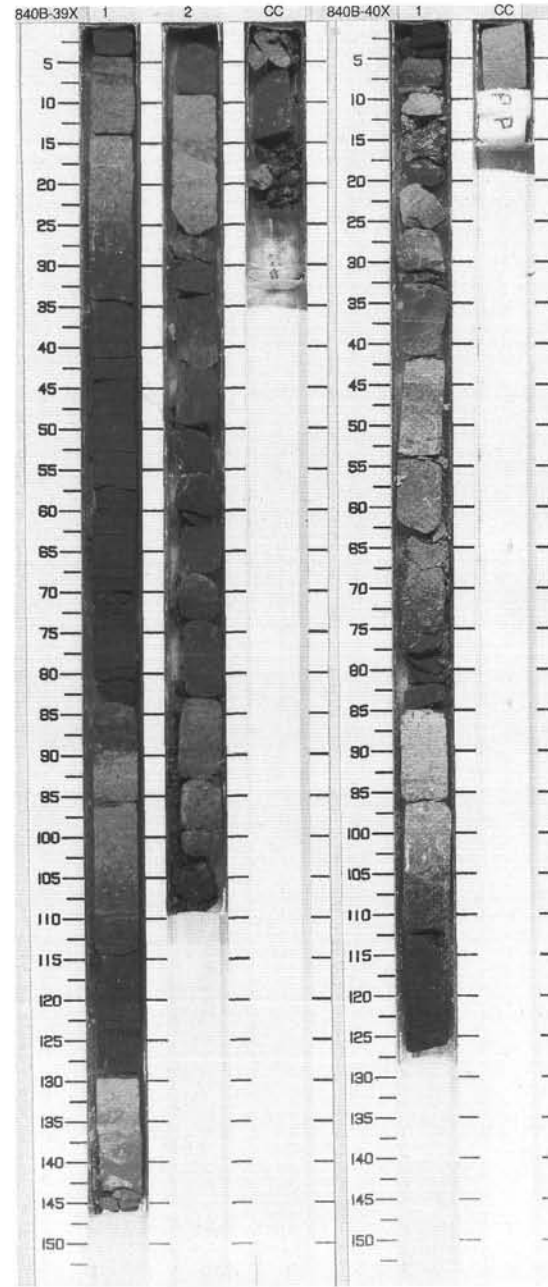
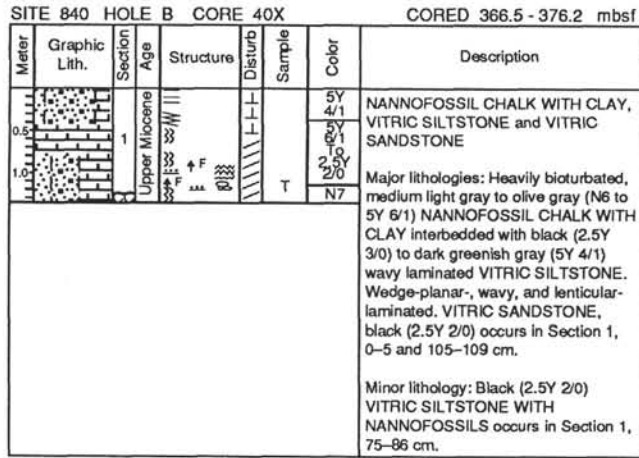
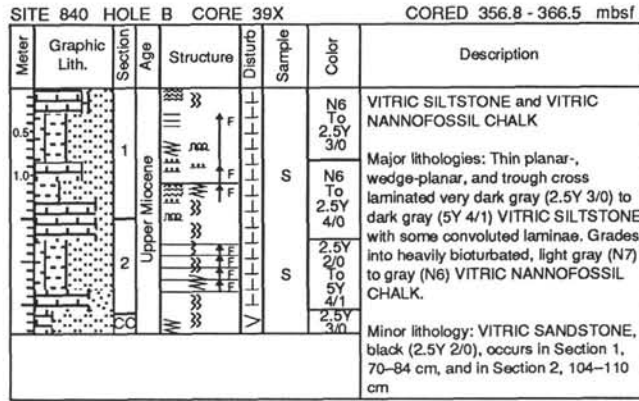
	1,114
D	

TEXTURE:

Sand	50
Silt	40
Clay	10

COMPOSITION:

Fe oxide	Tr
Foraminifers	Tr
Glass	80
Inorganic calcite	Tr
Magnetite	Tr
Plagioclase	5
Pore space	12
Pyroxene	1
Smectite	Tr
Volcanic ash	2



135-840B-41X
SMEAR SLIDE SUMMARY (%):

	1, 30	CC, 10
TEXTURE:	D	0

Sand	---	20
Silt	7	60
Clay	93	20

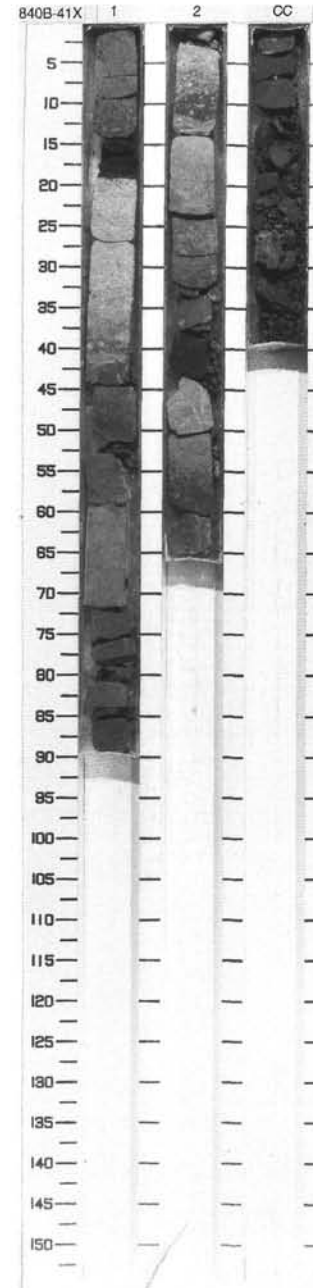
COMPOSITION:

Accessory minerals	Tr	---
Clay	20	12
Feldspar	1	Tr
Foraminifers	4	Tr
Glass	2	80
Nannofossils	73	8

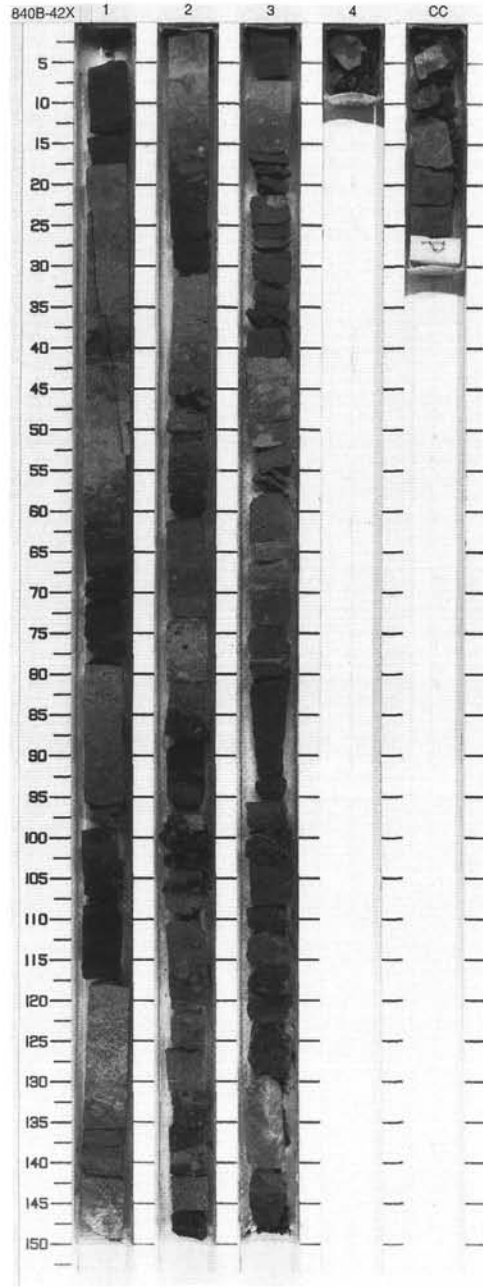
SITE 840 HOLE B CORE 41X

CORED 376.2-385.8 mbsf

Meier	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5	[Symbol]	1	Upper Miocene	[Symbol]	[Symbol]	S	N6	VITRIC SILTSTONE and NANNOFOSSIL CHALK WITH CLAY
1.0	[Symbol]	1	Upper Miocene	[Symbol]	[Symbol]	5GY 4/1		Major lithologies: Dark greenish gray (5GY 2/1) to greenish black (5GY 2/1) VITRIC SILTSTONE with planar laminae in Section 1, 83-87 cm, and wavy- and planar-laminae in Section 2, 33-44 cm. Fines upward into heavily bioturbated, light gray (N7) to light greenish gray (5GY 8/1) NANNOFOSSIL CHALK WITH CLAY.
	Void							
	[Symbol]	2	Upper Miocene	[Symbol]	[Symbol]	N5		
	[Symbol]	2	Upper Miocene	[Symbol]	[Symbol]	N6		
	[Symbol]	CC				5GY 4/1		Minor lithology: Black (2.5Y 2/0) VITRIC SANDSTONE, occurs in Section 1, 14-19 cm.



Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5	[Symbol]	1		[Symbol]	[Symbol]		2.5Y 4/0	NANNOFOSSIL CHALK and VITRIC SILTSTONE
1.0	[Symbol]	1		[Symbol]	[Symbol]		2.5Y 2/0 To 2.5Y 6/0	Major lithologies: Moderately to heavily bioturbated NANNOFOSSIL CHALK, dark gray (2.5YR 4/0) to gray (2.5YR 6/0). Planar, wedge-planar, wavy-, and lenticular-laminated VITRIC SILTSTONE, black (2.5YR 2/0). Convoluted bedding occurs in Section 3, 40-45 cm. VITRIC SILTSTONE usually fines upward and grades into bioturbated NANNOFOSSIL CHALK.
	[Symbol]	2	Upper Miocene	[Symbol]	[Symbol]		2.5Y 5/0 To 2.5Y 2/0	
	[Symbol]	3		[Symbol]	[Symbol]		2.5Y 2/0 To 2.5Y 7/0	Minor lithology: None.
	[Symbol]			[Symbol]	[Symbol]		2.5Y 6/0	



135-840B-43X
SMEAR SLIDE SUMMARY (%):

2, 23
D

TEXTURE:

Sand 10
Silt 70
Clay 20

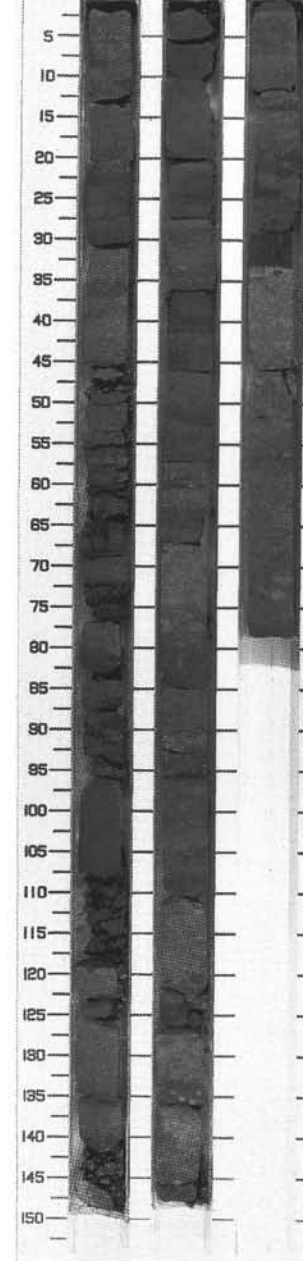
COMPOSITION:

Clay 10
Foraminifers Tr
Glass 65
Goethite Tr
Inorganic calcite Tr
Magnesite 1
Plagioclase 20
Pyroxene 2
Smectite Tr
Volcanic ash 2

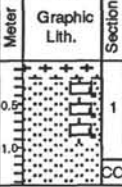
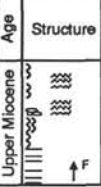

SITE 840 HOLE B CORE 43X CORED 395.5 - 404.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.0		1	Upper Miocene	FF			2.5Y 3/0	<p>VITRIC SANDSTONE and NANNOFOSSIL CHALK</p> <p>Major lithologies: VITRIC SANDSTONE, dark gray (2.5YR 4/0) to very dark gray (2.5YR 3/0). Occurs in fining-upward intervals with sharp, commonly eroded basal contacts. Planar lamination is common near the base of each interval with bioturbation increasing toward the top. Burrows, including Chondrites and Thalassinoides, occur in Section 3, 0-33 cm. The basal centimeter of a graded bed in Section 1, 29-30 cm, contains granule-sized, subrounded grains.</p> <p>Minor lithologies: NANNOFOSSIL CHALK, dark gray (2.5YR 4/0), bioturbated, occurs in Section 1, 119-140 cm. VITRIC SILTSTONE, dark gray (2.5Y 4/0), occurs in Section 1, 140-150 cm and in Section 3, 70-79 cm.</p>
0.5				FF			2.5Y 4/0 To 2.5Y 3/0	
1.0				FF			2.5Y 3/0	
1.5				FF			2.5Y 6/0 To 2.5Y 4/0	
2.0				FF			2.5Y 4/0	
2.5				FF			2.5Y 5/0	
3.0				FF				
3.5				FF				
4.0				FF				
4.5				FF				

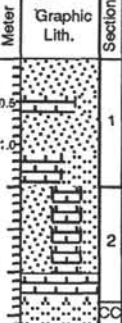
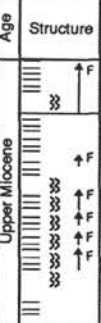

840B-43X 1 2 3



SITE 840 HOLE B CORE 44X CORED 404.9 - 414.2 mbsf

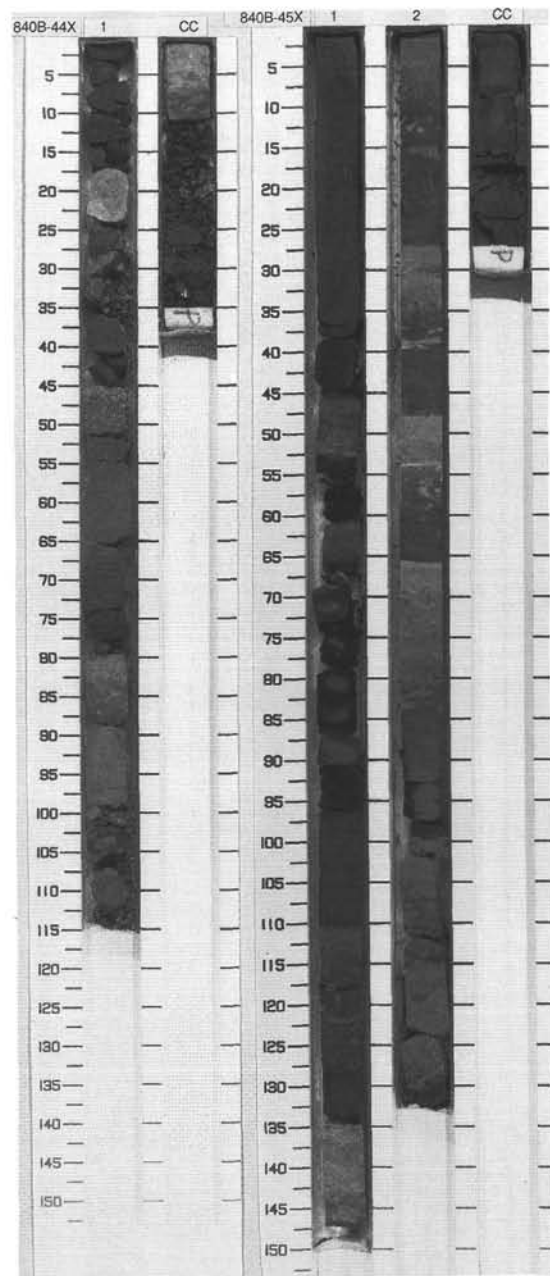
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
0.05 1.0		1 Upper Miocene			X	2.5Y 6/0 To 2.5Y 2/0 2.5Y 2/0	<p>VITRIC SILTSTONE, VITRIC SANDSTONE, NANNOFOSSIL CHALK and VOLCANICLASTIC CONGLOMERATE</p> <p>Major lithologies: VITRIC SILTSTONE interbedded with VITRIC SANDSTONE and NANNOFOSSIL CHALK, gray (2.5 YR 6/0) to very dark gray (2.5 YR 3/0). Bioturbated with wavy laminae and lenticular laminae. A discrete bed of vitric siltstone occurs in Section 1, 103-115 cm, showing planar laminae and bioturbation. Section CC contains planar-laminated VITRIC SILTSTONE, VOLCANICLASTIC CONGLOMERATE, very dark gray (2.5 YR 3/0). Grain-supported with subrounded grains up to 1 cm in diameter.</p> <p>Minor lithology: Bioturbated VITRIC NANNOFOSSIL CHALK, medium bluish gray (5B 5/1) to very dark gray (2.5 Y 3/0), occurs in Section 1, 93-103 cm, and in the Section CC, 0-11 cm.</p>

SITE 840 HOLE B CORE 45X CORED 414.2 - 423.9 mbsf

Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 Upper Miocene			T	2.5Y 2/0 2.5Y 3/0 To 2.5Y 7/0 10YR 6/0 To 10YR 2/0 10YR 6/0 To 2.5Y 2/0	<p>VITRIC SANDSTONE, VITRIC SILTSTONE, and NANNOFOSSIL CHALK</p> <p>General Description: Core contains interbedded intervals of the major lithologies, with a basal vitric sandstone grading up through vitric siltstone and into vitric nannofossil chalk.</p> <p>Major lithologies: VITRIC SANDSTONE, black (2.5YR 2/0) to very dark gray (2.5YR 3/0), with subrounded grains. Generally planar-laminated and fining upward into planar-laminated, bioturbated VITRIC SILTSTONE. Contact with overlying gray (2.5YR 5/0 to 2.5YR 6/0), bioturbated NANNOFOSSIL CHALK is gradational.</p> <p>Minor Lithology: None.</p>

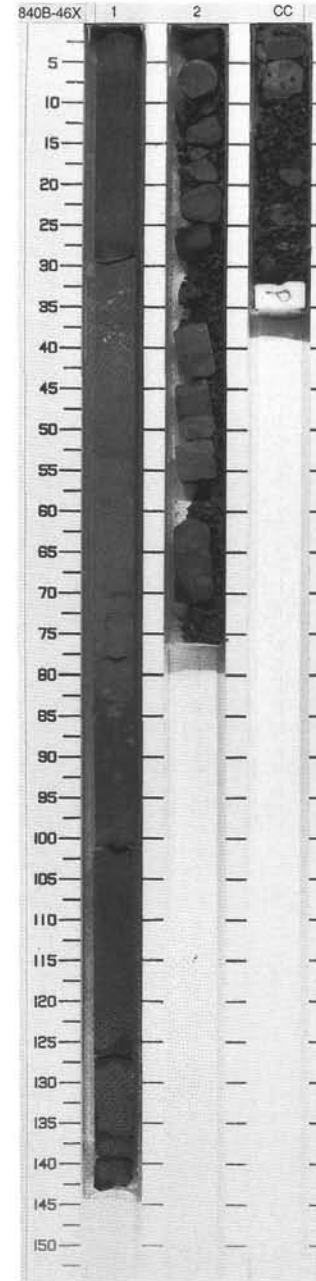
135 840B-45X
SMEAR SLIDE SUMMARY (%):

	1,4
	D
TEXTURE:	
Sand	80
Silt	20
Clay	--
COMPOSITION:	
Glass	68
Inorganic calcite	Tr
Magnetite	1
Plagioclase	4
Pyroxene	1
Smectite	25
Volcanic ash	1



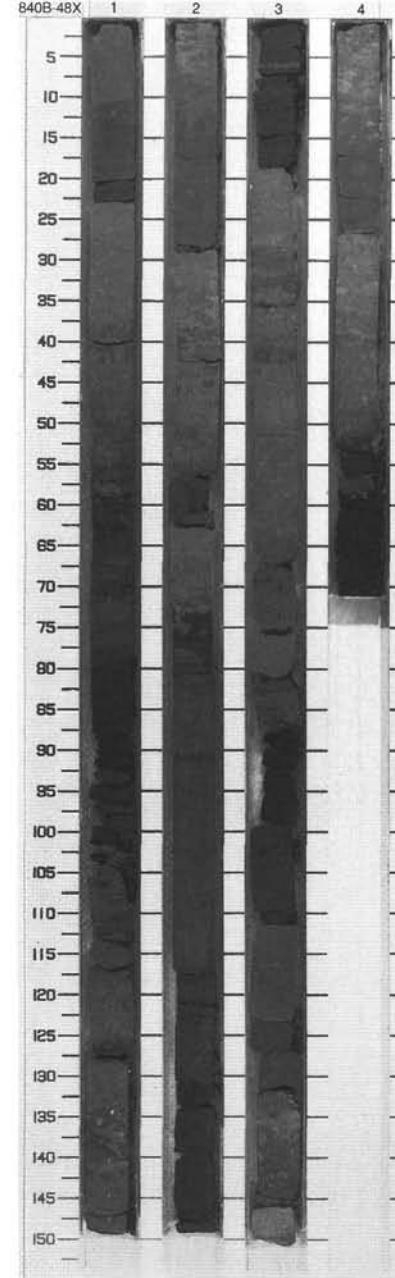
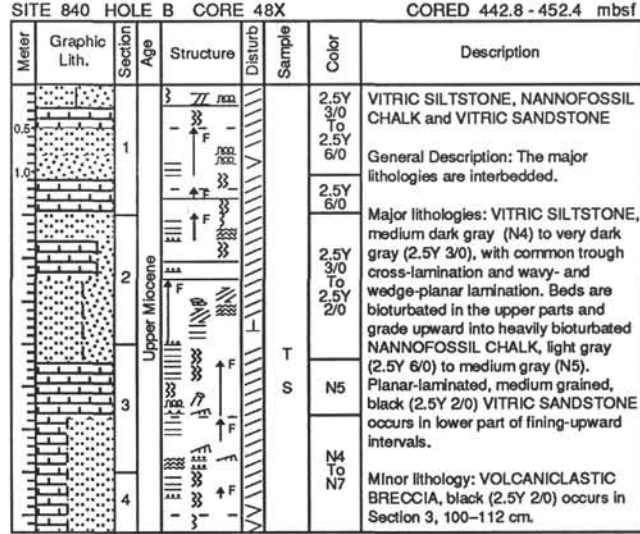
SITE 840 HOLE B CORE 46X CORED 423.9 - 433.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5		1	Upper Miocene				2.5Y 3/0	<p>VITRIC SANDSTONE, VITRIC SILTSTONE, and NANNOFOSSIL CHALK</p> <p>Major lithologies: Structureless VITRIC SANDSTONE, very dark gray (2.5Y 3/0). This lithology fines upward into very dark gray (2.5Y 3/0), bioturbated VITRIC SILTSTONE, medium bluish gray (5B 5/1) to very dark gray (2.5Y 3/0). This lithology is commonly bioturbated and shows planar- and trough cross-lamination in Section 1, 28-54 cm, and fining-upward intervals in Section 1, 82-150 cm, and Section 2, 48-52 cm. VITRIC SILTSTONE is interbedded with heavily bioturbated NANNOFOSSIL CHALK, light gray (2.5Y 6/0) to medium bluish gray (5B 5/1).</p> <p>Minor lithology: None.</p>
1.0		2					2.5Y 5/0	
1.5		3					2.5Y 3/0	



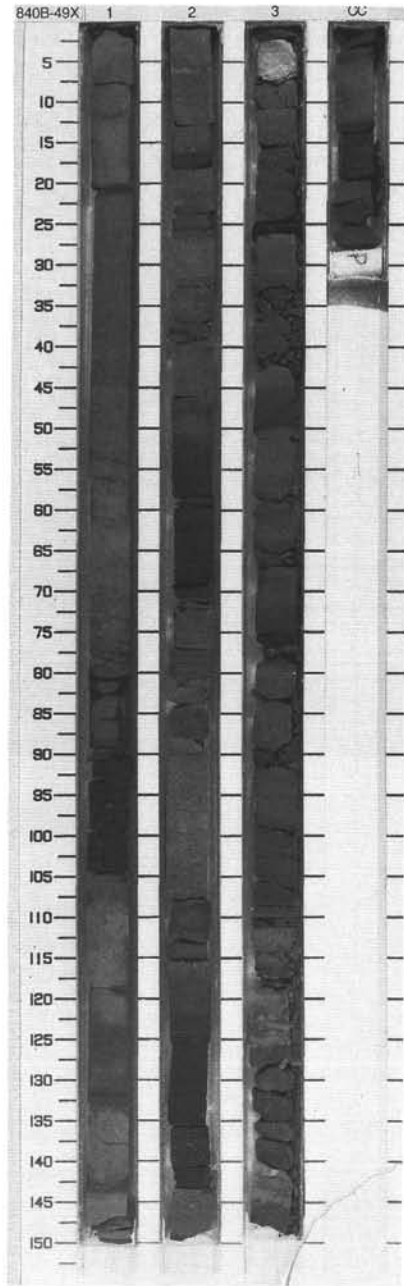
135 640B-48X
SMEAR SLIDE SUMMARY (%):

	3, 10	3, 49
	D	D
TEXTURE:		
Sand	90	---
Silt	10	6
Clay	---	94
COMPOSITION:		
Accessory minerals	---	1
Clay	---	34
Feldspar	---	2
Foraminifers	Tr	1
Glass	72	2
Goethite	Tr	---
Inorganic calcite	Tr	---
Magnetite	Tr	---
Nannofossils	---	60
Plagioclase	5	---
Pore space	20	---
Pyroxene	1	---
Volcanic ash	2	---



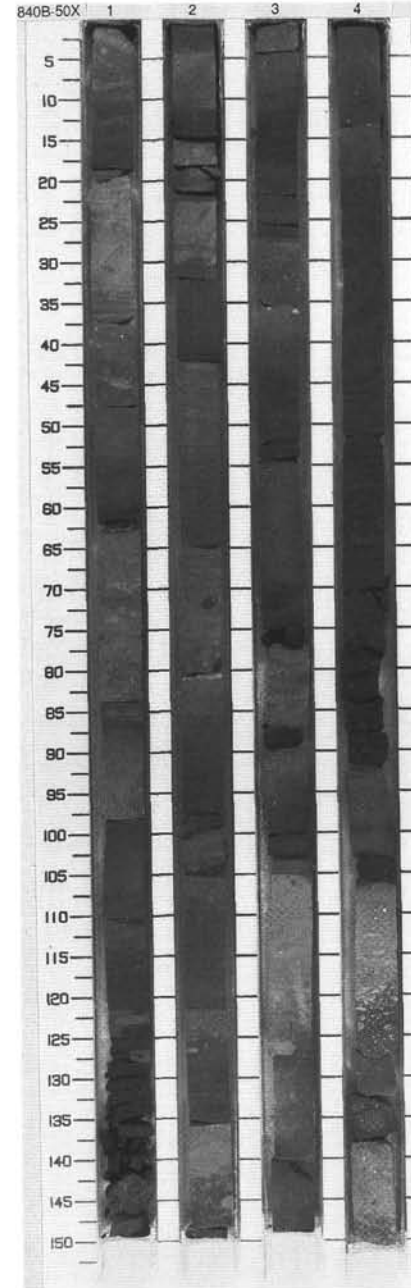
SITE 840 HOLE B CORE 49X CORED 452.4 - 462.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5	[Symbol]	1	Upper Miocene	[Symbol]	[Symbol]		N5	VITRIC SILTSTONE and NANNOFOSSIL CHALK
1.0	[Symbol]			[Symbol]	[Symbol]		5Y 2/0 To 5Y 6/0	General Description: The major lithologies are interbedded. Major lithology: VITRIC SILTSTONE, dark gray (5Y 4/1) to gray (5Y 5/1), with abundant trough cross-, planar- and wedge-planar lamination. Convoluted bedding horizons are also common. NANNOFOSSIL CHALK, gray (5Y 6/1) to light gray (5Y 7/1), heavily bioturbated and intermixed with vitric silt and vitric sand. The NANNOFOSSIL CHALK grades down into VITRIC SILTSTONE.
	[Symbol]			[Symbol]	[Symbol]		5Y 2/0 To 5Y 7/1	Minor lithology: Black (5Y 2/0) to very dark gray (5Y 3/1), usually normally graded and planar-laminated VITRIC SANDSTONE grading up into VITRIC SILTSTONE.
	[Symbol]	2		[Symbol]	[Symbol]		5Y 2/0	



SITE 840 HOLE B CORE 50X CORED 462.1 - 471.7 mbsf

Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
0.5	[Symbol]	1	[Symbol]	[Symbol]	N4 To N6		<p>NANNOFOSSIL CHALK, NANNOFOSSIL CHALK WITH VITRIC SILT, VITRIC SILTSTONE, and VITRIC SANDSTONE</p> <p>General Description: The major lithologies are interbedded.</p>
1.0	[Symbol]		[Symbol]	[Symbol]			
		2	[Symbol]	[Symbol]	N4 To N6		<p>Major lithologies: Heavily bioturbated NANNOFOSSIL CHALK and NANNOFOSSIL CHALK WITH VITRIC SILT, gray to medium gray (N5 to N6), interbedded with medium dark gray (N4) to medium gray (N5) VITRIC SILTSTONE. VITRIC SILTSTONE has fining-upward intervals with convoluted beds, trough cross-, planar-, wedge planar-, and wavy-laminated beds. Lenticular laminae occur in Section 1, 55 cm, Section 2, 86 cm, Section 3, 113 cm, and Section 4, 15 cm. VITRIC SANDSTONE, medium gray (N5) to very dark gray (N2), grades up into VITRIC SILTSTONE. Convoluted bedding occurs in this lithology in Section 4, 18-58 cm.</p>
			[Symbol]	[Symbol]			
			[Symbol]	[Symbol]			
		3	[Symbol]	[Symbol]	N4 To N6		<p>Minor lithology: A 3 cm thick bed of PUMICEOUS GRAVEL, very dark gray (5Y 2.5/1), occurs in Section 4, 104-107 cm.</p>
			[Symbol]	[Symbol]			
		4	[Symbol]	[Symbol]	N4 To N6		
			[Symbol]	[Symbol]			



135-840B-51X
 SMEAR SLIDE SUMMARY (%):

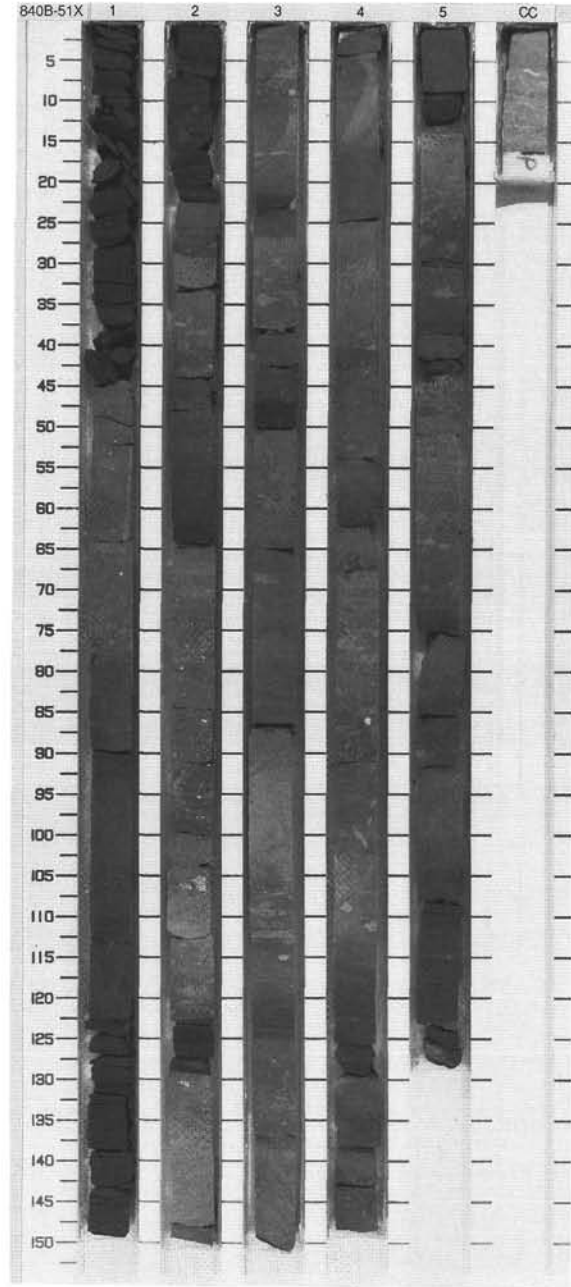
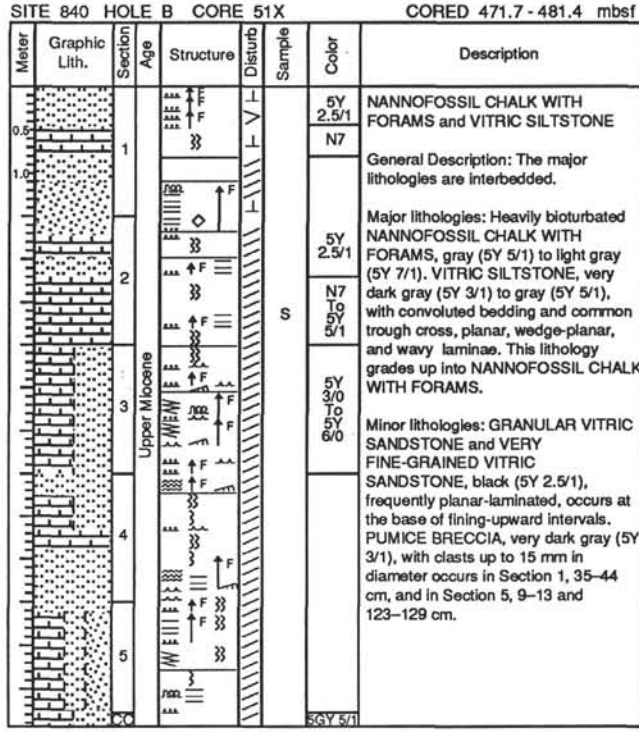
2, 113
 D

TEXTURE:

Sand ---
 Silt 17
 Clay 83

COMPOSITION:

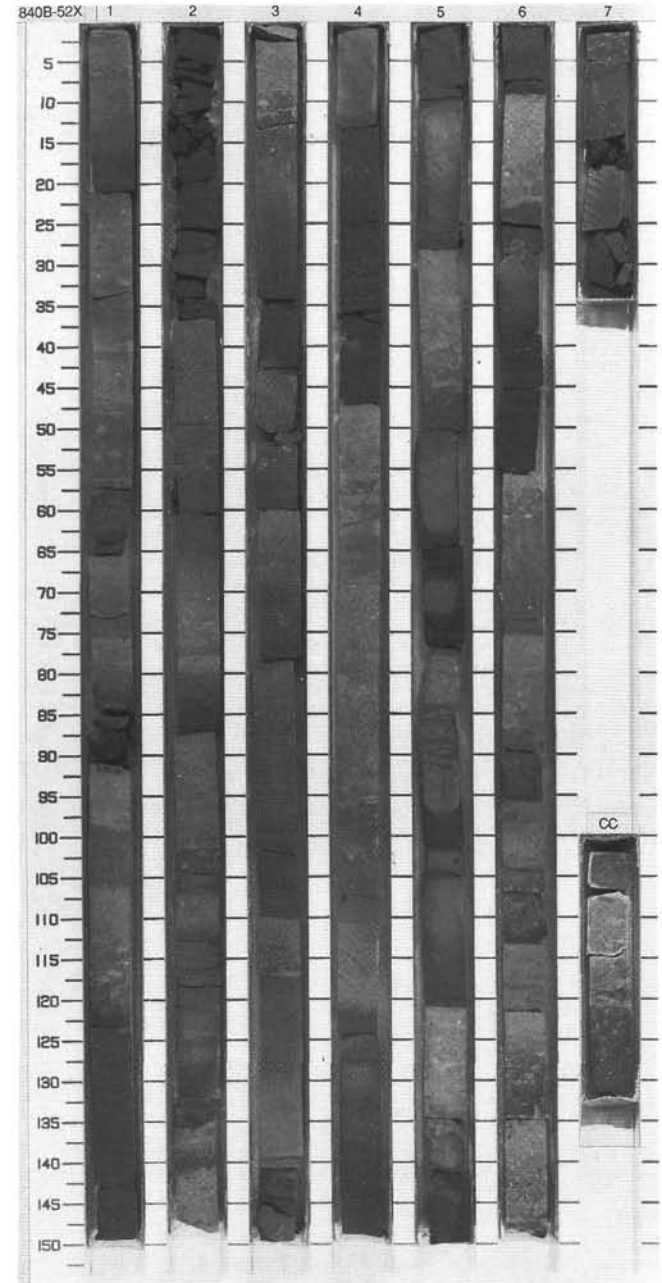
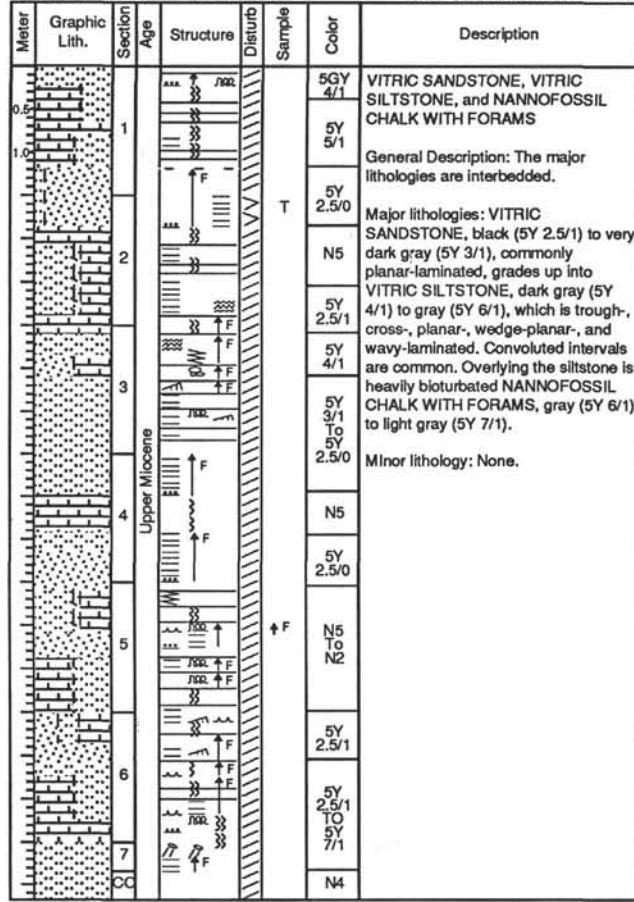
Accessory minerals Tr
 Clay 30
 Feldspar 2
 Foraminifers 10
 Glass 5
 Nannofossils 53



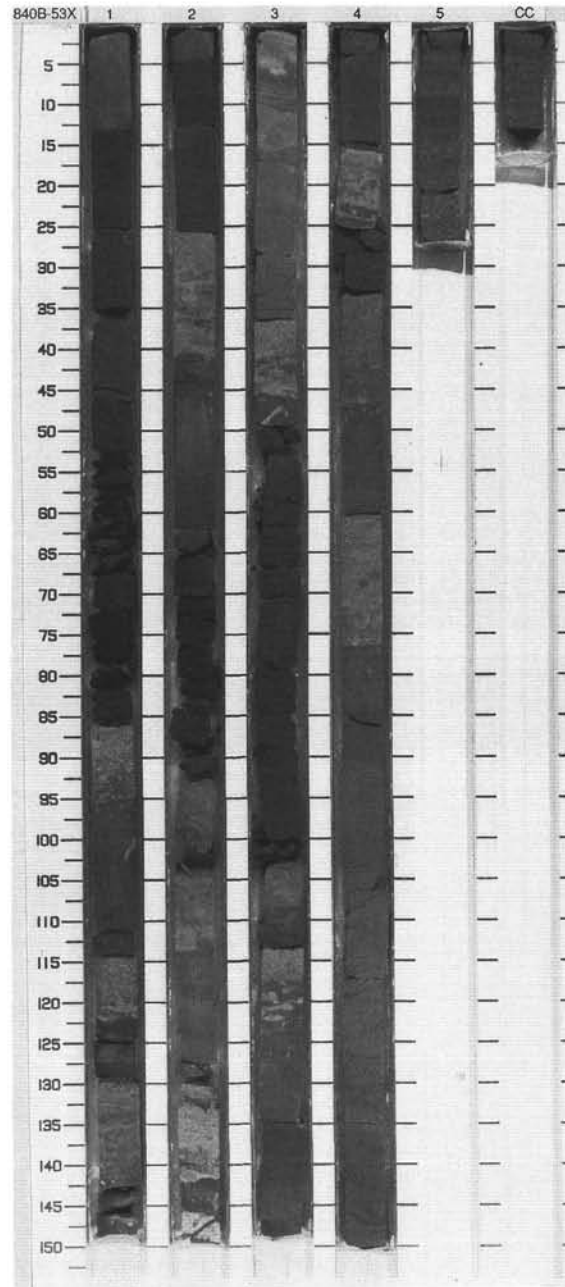
135-840B-52X
SMEAR SLIDE SUMMARY (%):

TEXTURE:	
Sand	15
Silt	75
Clay	10
COMPOSITION:	
Clay	5
Glass	68
Goethite	Tr
Inorganic calcite	Tr
Magnetite	1
Plagioclase	3
Pore space	20
Pyroxene	1
Volcanic ash	2

SITE 840 HOLE B CORE 52X CORED 481.4 - 491.0 mbsf

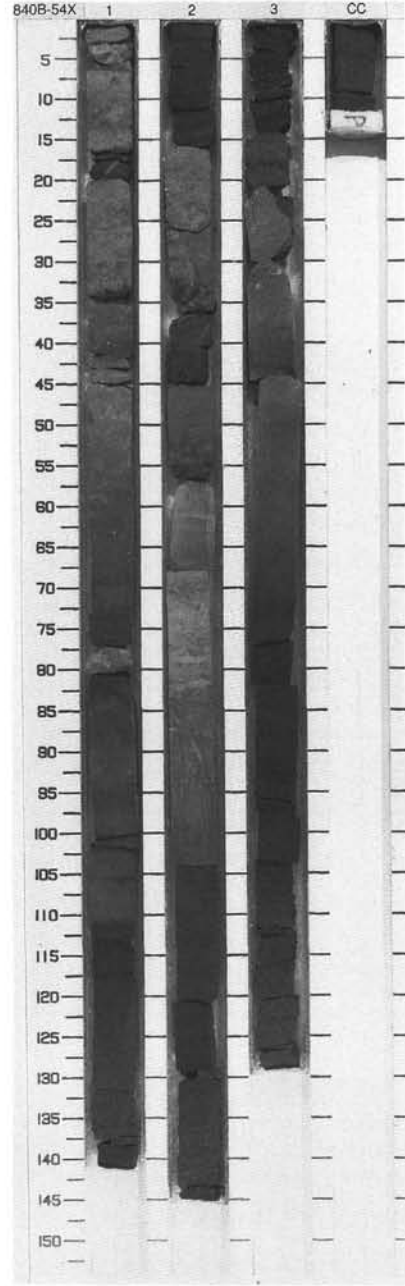


Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5	[Symbol]	1	Upper Miocene	[Symbol]	[Symbol]		N4 To 5Y 2.5/0	VITRIC SANDSTONE, VITRIC SILTSTONE and NANNOFOSSIL CHALK General Description: The major lithologies are interbedded.
1.0	[Symbol]	2	Upper Miocene	[Symbol]	[Symbol]		5Y 2.5/1	Major lithologies: VITRIC SILTSTONE, black (5Y 2.5/1) to gray (N5), with trough-, cross-, planar-, and wavy-laminations. Frequently convoluted; contains water escape pillars and thin sand dikes. Tops of beds are often bioturbated.
	[Symbol]	3	Upper Miocene	[Symbol]	[Symbol]		N5	
	[Symbol]	4	Upper Miocene	[Symbol]	[Symbol]		N6	NANNOFOSSIL CHALK, light gray (5GY 4/1), heavily bioturbated. VITRIC SANDSTONE, black (5Y 2.5/0) to dark gray (N4), frequently conglomeratic, with clasts up to 1 cm in diameter, occurs at the base of fining-upward intervals.
	[Symbol]	5	Upper Miocene	[Symbol]	[Symbol]		5Y 3/1	Minor lithologies: Planar- and cross-stratified PUMICEOUS GRAVEL, dark gray (10YR 4/0), alternating with VITRIC SAND layers occurs in Section 5 and in Section CC.
	[Symbol]			[Symbol]	[Symbol]		5GY 4/1	
	[Symbol]			[Symbol]	[Symbol]		N7	
	[Symbol]			[Symbol]	[Symbol]		N5	
	[Symbol]			[Symbol]	[Symbol]		N4	



SITE 840 HOLE B CORE 54X CORED 500.7 - 510.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.0	[Symbol]	1	Upper Miocene	[Symbol]	[Symbol]		5Y 4/1 To 2.5Y 2/0	<p>VITRIC SANDSTONE, VITRIC SILTSTONE and NANNOFOSSIL CHALK</p> <p>Major lithologies: VITRIC SANDSTONE, black (2.5Y 2/0), with planar-, wedge planar-, wavy-laminated and frequently convoluted bedding. VITRIC SILTSTONE, black (2.5Y 2/0) to dark greenish gray (5G 4/1) to dark gray (5YR 4/1), with frequent planar-, wedge planar-, and trough cross-laminae, and convoluted beds. Bioturbation occurs at the tops of the beds. NANNOFOSSIL CHALK, gray (5Y 5/1).</p> <p>Minor lithology: VOLCANICLASTIC BRECCIA, dark reddish brown (5YR 3/2) occurs in Section 2, 40-45 cm, interbedded with SANDSTONE in Section 1, 136 cm, through Section 2, 21 cm, where it is black (2.5Y 2/0) to dark reddish gray (5YR 4/2).</p>
0.5	[Symbol]	2		[Symbol]	[Symbol]		5YR 4/1 To 2.5Y 2/0	
1.0	[Symbol]	3		[Symbol]	[Symbol]		5YR 4/2 To 2.5Y 2/0	

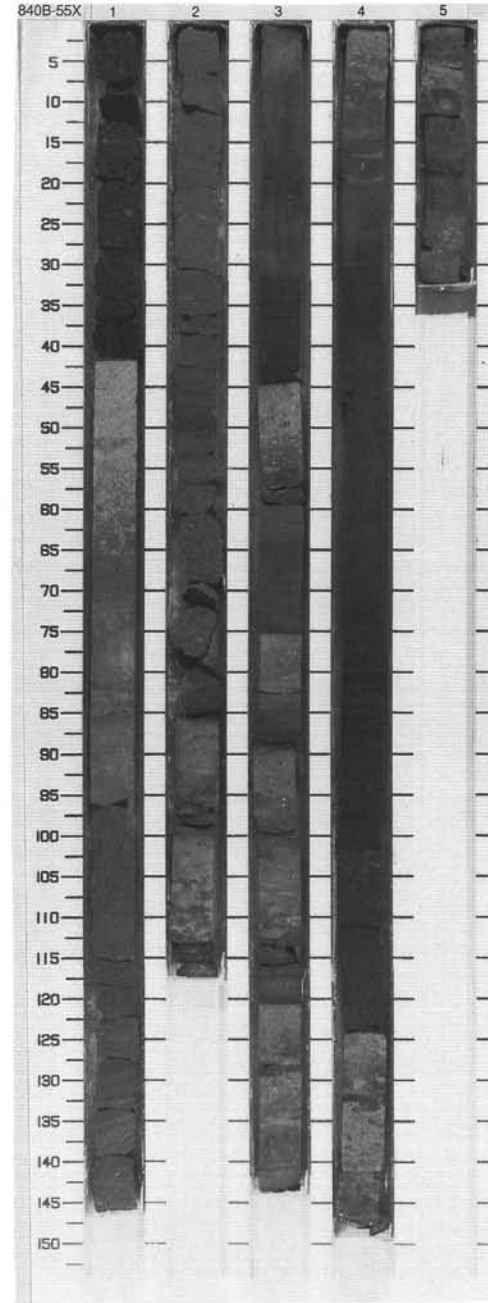


135-840B-55X
 SMEAR SLIDE SUMMARY (%):

	2, 58
	D
TEXTURE:	
Sand	--
Silt	--
Clay	--
COMPOSITION:	
Clay	2
Glass	96
Magnetite	Tr
Plagioclase	1
Pore space	2
Pyroxene	Tr

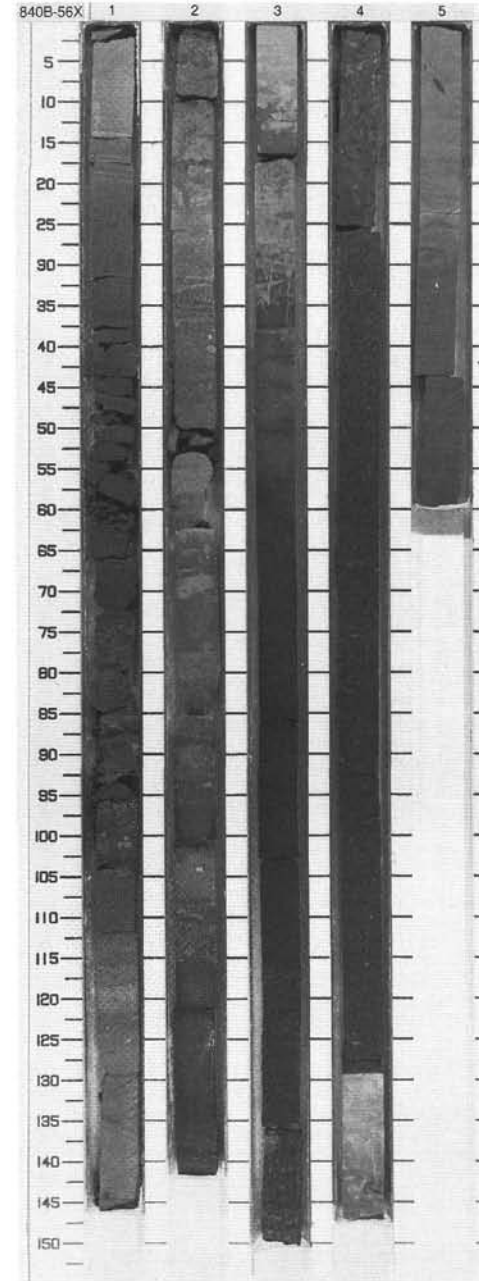
SITE 840 HOLE B CORE 55X CORED 510.4 - 520.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5		1		SS F		7.5YR 3/0		VITRIC SILTSTONE, VITRIC SANDSTONE, NANNOFOSSIL CHALK and VOLCANICLASTIC BRECCIA
1.0		1		SS F		5GY 5/1		
1.5		1		SS F		N5		General Description: The major lithologies are interbedded.
2.0		2		SS F		7.5YR 6/0 To 7.5YR 3/0		Major lithologies: VITRIC SILTSTONE, very dark gray (7.5YR 3/0) to greenish gray (5GY 5/1), and VITRIC SANDSTONE, dark gray (7.5YR 4/0), with bedding frequently planar-laminated, wedge planar-laminated, wavy-laminated and convoluted. The sandstones also show planar, tabular, and trough cross-stratification. NANNOFOSSIL CHALK, light gray (5Y 6/1), heavily bioturbated. Structureless, polymict VOLCANICLASTIC BRECCIA, very dark gray (7.5YR 3/0) to gray (7.5YR 6/0), with clasts up to 1 cm in diameter.
2.5	Void							
3.0		3	Upper Miocene	SS F		7.5YR N 2/0		
3.5		3		SS F		7.5YR N 6/0 To 7.5YR N 3/0		
4.0		4		SS F		N7 To N3		Minor lithology: Stratified GRAVELY VITRIC SANDSTONE, dark gray (N3), with clasts up to 1 cm in diameter.
4.5		4		SS F				
5.0		5		SS F				



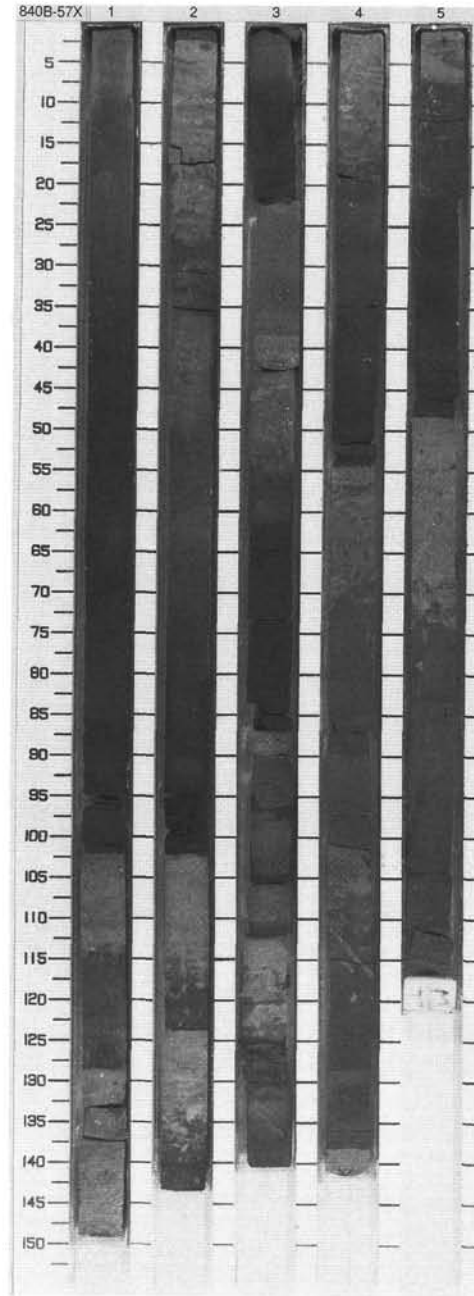
SITE 840 HOLE B CORE 56X CORED 520.2 - 529.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5		1		F			2.5Y 6/0 To 2.5Y 4/0	VITRIC SANDSTONE, VITRIC SILTSTONE, NANNOFOSSIL CHALK and VOLCANICLASTIC BRECCIA
1.0		2		F			2.5Y 5/0	General Description: The major lithologies are interbedded from Section 1, 0 cm, through Section 3, 115 cm.
1.5		2		F			2.5Y 3/0 To 2.5Y 6/0	
2.0		3	Upper Miocene	F			2.5Y 3/0	Major lithologies: VITRIC SANDSTONE, gray (2.5Y 6/0) to very dark gray (2.5Y 3/0), in fining-upward, planar- and cross-laminated intervals, occasionally with convoluted bedding. Fines upward into VITRIC SILTSTONE, gray (2.5Y 6/0) to very dark gray (2.5Y 3/0), with planar- or cross-lamination near the base of each interval. Bioturbation increases toward the top of each interval. This lithology fines upward into the overlying, bioturbated NANNOFOSSIL CHALK, light gray (2.5Y 7/0) to gray (2.5Y 5/0). Poorly-sorted, very dark gray (2.5YR 3/0), clast-supported VOLCANICLASTIC BRECCIA with subrounded clasts occurs in Section 3, 115 cm, through Section 4, 130 cm. Maximum clast diameter is 28 mm.
2.5		4		C			2.5Y 5/0	
3.0		5		F			2.5Y 5/0	Minor lithology: None.



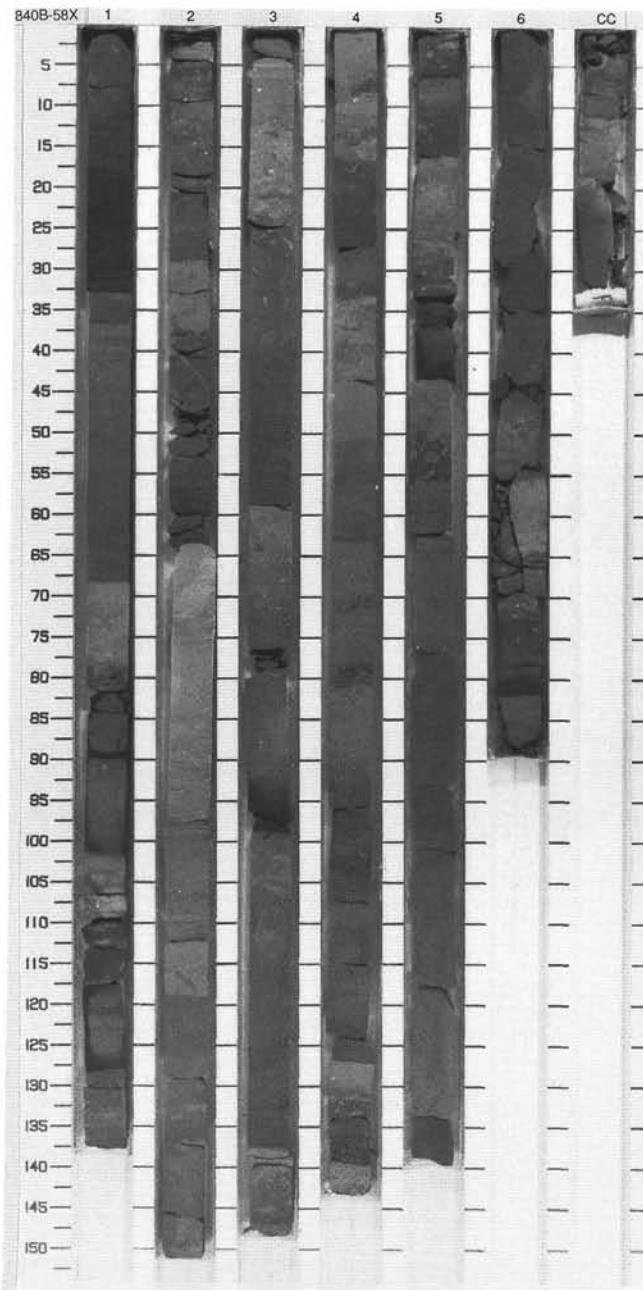
SITE 840 HOLE B CORE 57X CORED 529.6 - 539.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.0	[Dotted pattern]	1	no. ↑ F	[Dotted pattern]			2.5Y 3/0	VITRIC SANDSTONE, VITRIC SILTSTONE and NANNOFOSSIL CHALK
1.0	[Horizontal lines]		ll. ⌘	[Horizontal lines]			2.5Y 6/0	Major lithologies: VITRIC SANDSTONE, gray (2.5Y 6/0) to very dark gray (2.5Y 3/0), in fining-upward sequences with scoured lower contacts, showing planar lamination, trough cross-stratification, convoluted bedding and water escape structures.
	[Horizontal lines]		no. ↑ F	[Horizontal lines]			2.5Y 3/0	
	[Dotted pattern]	2	no. ↑ F	[Dotted pattern]			2.5Y 3/0	This lithology commonly fines upward into VITRIC SILTSTONE, gray (2.5Y 6/0) to very dark gray (2.5Y 3/0), with planar- or cross-laminae near the base of each interval and bioturbation increasing upward. This lithology fines upward and grades into strongly bioturbated NANNOFOSSIL CHALK, light gray (2.5Y 7/0).
	[Horizontal lines]		ll. ⌘	[Horizontal lines]			2.5Y 6/0 To 2.5Y 4/0	
	[Dotted pattern]	3	no. ↑ F	[Dotted pattern]			2.5Y 3/0	Minor lithology: VOLCANICLASTIC BRECCIA, dark gray (2.5YR 4/0), with normally- graded base occurs in Section 5, 112-117 cm.
	[Horizontal lines]		ll. ⌘	[Horizontal lines]			2.5Y 6/0 To 2.5Y 3/0	
	[Dotted pattern]	4	no. ↑ F	[Dotted pattern]			2.5Y 5/0	
	[Horizontal lines]		ll. ⌘	[Horizontal lines]			2.5Y 4/0	
	[Dotted pattern]	5	no. ↑ F	[Dotted pattern]			2.5Y 3/0	
	[Horizontal lines]		ll. ⌘	[Horizontal lines]			2.5Y 5/0	



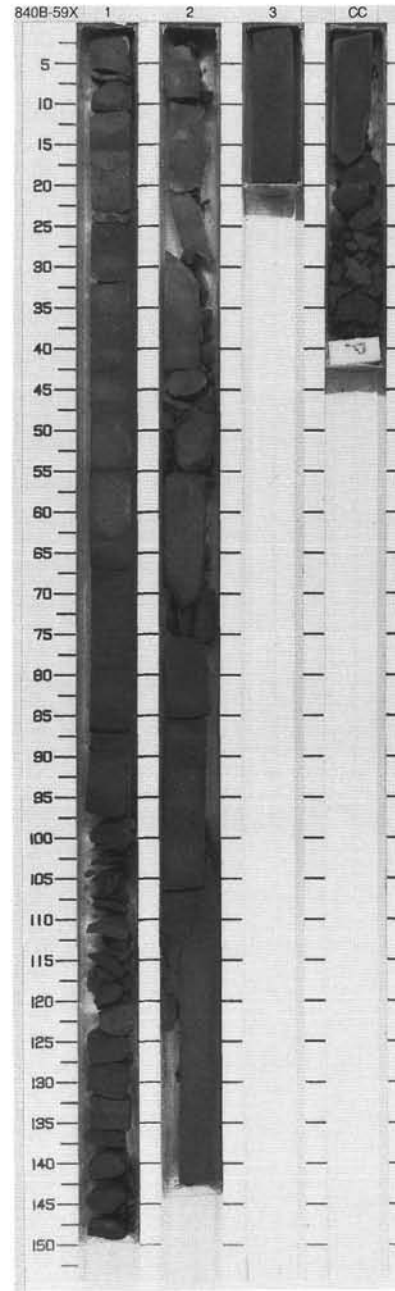
SITE 840 HOLE B CORE 58X CORED 539.3 - 549.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.0 - 1.0	[Pattern]	1	Upper Miocene	[Symbol]	[Symbol]	2.5Y 3/0	2.5Y 3/0	VITRIC SANDSTONE, VITRIC SILTSTONE and NANNOFOSSIL CHALK
1.0 - 2.0	[Pattern]	2	Upper Miocene	[Symbol]	[Symbol]	2.5Y 6/0 To 2.5Y 3/0	2.5Y 6/0 To 2.5Y 3/0	General Description: The major lithologies are interbedded.
2.0 - 3.0	[Pattern]	3	Upper Miocene	[Symbol]	[Symbol]	2.5Y 4/0 To 2.5Y 5/0	2.5Y 4/0 To 2.5Y 5/0	Major lithologies: VITRIC SANDSTONE, gray (2.5Y 6/0) to very dark gray (2.5Y 3/0), occurs in fining-upward sequences with sharp basal contacts, showing both planar- and cross-lamination. Fines upward into VITRIC SILTSTONE, gray (2.5Y 6/0) to very dark gray (2.5Y 3/0), with planar-laminae and convoluted bedding. Fines upward and grades into strongly bioturbated NANNOFOSSIL CHALK, light gray (2.5Y 6/0).
3.0 - 4.0	[Pattern]	4	Upper Miocene	[Symbol]	[Symbol]	2.5Y 6/0 To 2.5Y 4/0	2.5Y 6/0 To 2.5Y 4/0	Minor lithology: VOLCANICLASTIC BRECCIA, dark gray (2.5YR 4/0), occurs in Section 4, 140-144 cm.
4.0 - 5.0	[Pattern]	5	Upper Miocene	[Symbol]	[Symbol]	5B 5/1 To N3	5B 5/1 To N3	
5.0 - 6.0	[Pattern]	6	Upper Miocene	[Symbol]	[Symbol]	N4	N4	
6.0 - 6.5	[Pattern]	CC	Upper Miocene	[Symbol]	[Symbol]	N6	N6	
6.5 - 7.0	[Pattern]	CC	Upper Miocene	[Symbol]	[Symbol]	2.5Y 5/0	2.5Y 5/0	



SITE 840 HOLE B CORE 59X CORED 549.0 - 558.7 mbsf

Meter	Graphic Lth.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5		1		F			2.5Y 4/0	<p>VITRIC SANDSTONE, VITRIC SILTSTONE and NANNOFOSSIL CHALK</p> <p>Major lithologies: VITRIC SANDSTONE, dark gray (2.5Y 4/0) to dark greenish gray (10Y 4/1), in planar laminated fining-upward intervals with sharp basal contacts. Convoluted bedding occurs in Sections 1 and 3, at 65-92 cm and 0-20 cm respectively. This lithology fines upwards into VITRIC SILTSTONE, dark gray (2.5Y 4/0) to dark greenish gray (10Y 4/1), Planar laminae and slight bioturbation occur throughout. Convoluted bedding preserved in Section 2, 60-70 cm. Fines upwards into heavily bioturbated NANNO-FOSSIL CHALK, light gray (2.5Y 7/0) to gray (2.5Y 5/0).</p> <p>Minor lithology: Poorly-sorted, structureless VOLCANICLASTIC BRECCIA, dark greenish gray (10Y 4/1), occurs in Section CC, 16-20 cm.</p>
1.0		2	Upper Miocene	F			2.5Y 5/0	
		CC					10YR 4/1	

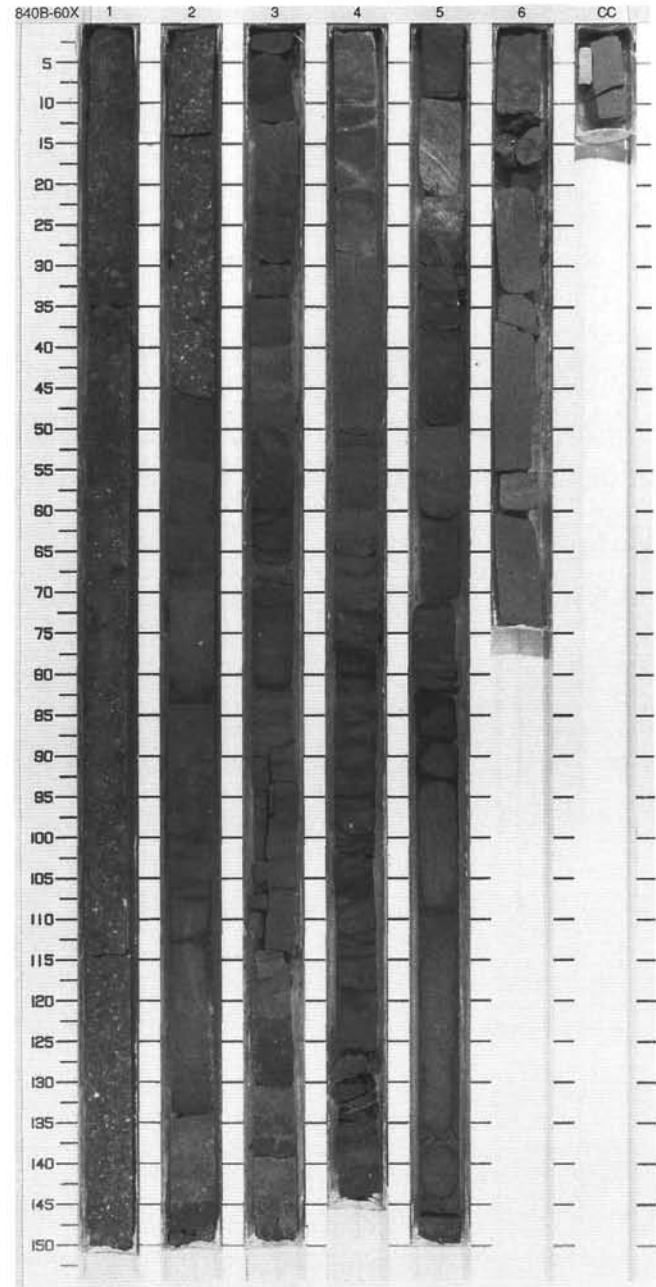


135-840B-60X
 SMEAR SLIDE SUMMARY (%):

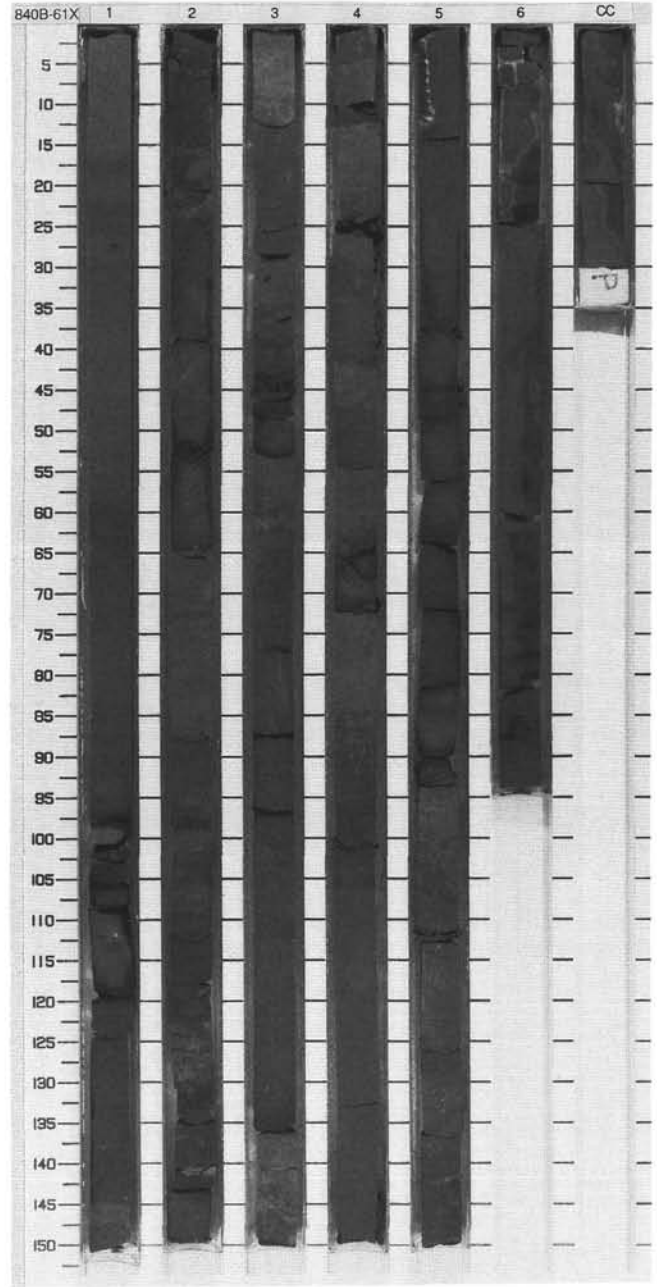
	1, 92
TEXTURE:	D
Sand	1
Silt	1
Clay	1
COMPOSITION:	
Clay	20
Foraminifers	Tr
Goethite	Tr
Magnetite	Tr
Plagioclase	1
Pyroxene	Tr
Smectite	2
Volcanic ash	75
Zoolite	2

SITE 840 HOLE B CORE 60X CORED 558.7 - 568.3 mbsf

Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
0.5		1			T	5G 2/1 To 5G 4/1	VOLCANICLASTIC BRECCIA, VOLCANIC SILTSTONE, VOLCANIC SANDSTONE, and CALCAREOUS CLAYSTONE.
1.0		2				5G 4/1	Major lithologies: VOLCANICLASTIC BRECCIA, very dark greenish gray (5G 2/1) to greenish gray (5G 4/1), heterogenous assemblage of subangular to subrounded, heavily altered volcanic clasts, with average clast size approximately 1 cm. Maximum clast diameter is 3 cm.
1.5		3				5G 5/1 To 2.5Y 2/0	VOLCANIC SILTSTONE, very dark gray (2.5Y 3/0) to light gray (5Y 6/1), and greenish gray (5G 5/1) to greenish black (5GY 2/1), occurs in fining-upward sequences, frequently with convoluted- and cross-bedding, and planar- and cross- laminations. This lithology overlies
2.0		4				5Y 6/1	planar-laminated, graded beds of VOLCANIC SANDSTONE, very dark gray (2.5Y 3/0) to dark greenish gray (5G 4/1). CALCAREOUS
2.5		5				N3	CLAYSTONE, black (2.5Y 3/0) to greenish gray (5G 5/1), in heavily bioturbated beds of very fine, altered, volcanic glass.
3.0		6				5G 5/1	
3.5						N2	Minor lithology: None.
4.0						5G 5/1	



Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
0.5		1	↑ F	◇		5G 6/1	VOLCANIC SANDSTONE, VOLCANIC SILTSTONE and NANNOFOSSIL CHALK.
1.0		2	↑ F	⌘		N2	Major lithologies: VOLCANIC SANDSTONE, greenish black (5GY 4/1) to grayish black (N2), in fining-upward intervals with sharp basal contacts, containing bioturbated intervals above cross- or planar-laminated intervals. Grain diameters are up to 1 mm. This lithology fines upward into VOLCANIC SILTSTONE, greenish gray (5G 2/1), with planar laminae, convoluted bedding, water escape structures and sparse bioturbation. This lithology fines upward and grades into strongly bioturbated NANNOFOSSIL CHALK, light gray (2.5Y 7/0) to gray (2.5Y 5/0).
		3	↑ F	⌘		5BG 4/1	
		4	↑ F	⌘		5G 5/1 To 5GY 5/1	Minor lithology: CALCAREOUS SILTSTONE occurs in Section 2, 0-5 cm. Concentrically-laminated nodules occur in Section 4, 116 cm and Section 5, 92 cm.
		5	↑ F	⊙		5BG 4/1	
		6	↑ F	⌘			
		CC					

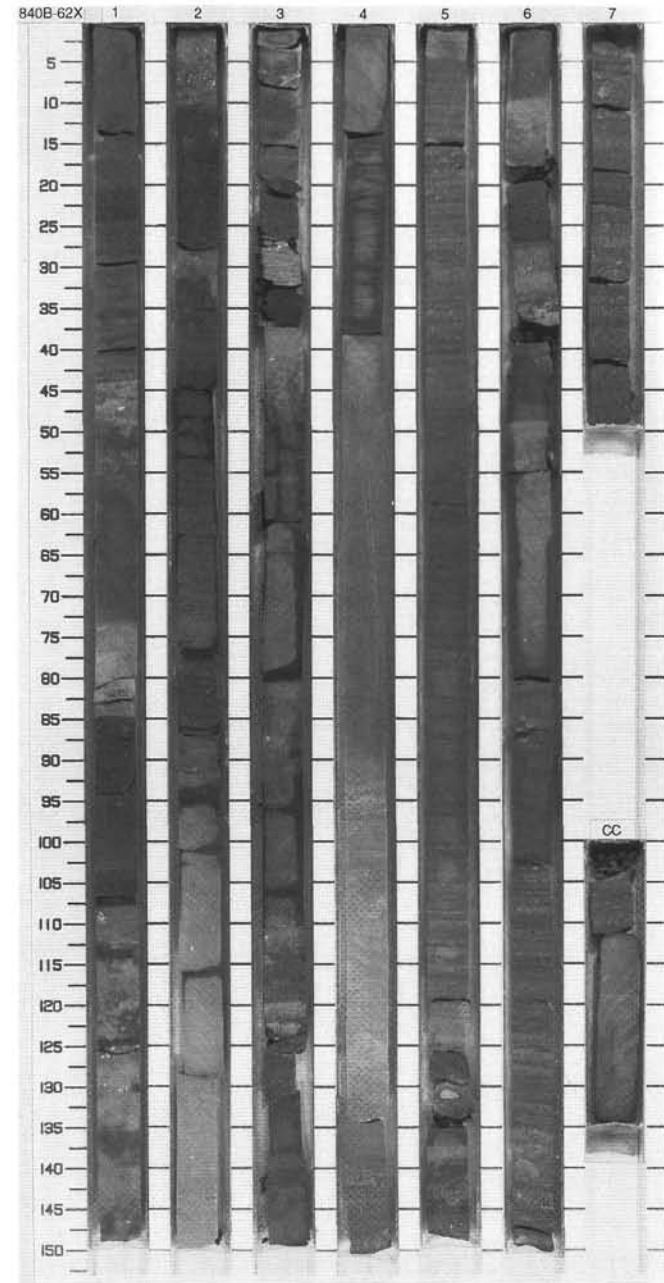


135-840B-62X
SMEAR SLIDE SUMMARY (%):

TEXTURE:	7, 43 D
Sand	100
Silt	--
Clay	--
COMPOSITION:	
Feldspar	4
Glass	93
Inorganic calcite	Tr
Magnetite	1
Pyroxene	1
Quartz	Tr

SITE 840 HOLE B CORE 62X CORED 578.0 - 587.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.0		1				N4		VOLCANIC SANDSTONE, VOLCANIC SILTSTONE, NANNOFOSSIL CHALK and VOLCANICLASTIC BRECCIA
0.5		1				58G 4/1		
1.0		1				2.5Y 6/0		VOLCANIC SANDSTONE, very dark gray (2.5Y 3/0) to dark gray (N4), fining upward, planar-laminated and cross-laminated intervals. Convoluted bedding occurs in Sections 4, 0-20 and 105-123 cm, and in Section 6, 89-97 cm. Cross bedding is present in Section 1, 34-38 cm, and in Section 4, 125 cm. This lithology grades up into planar-laminated VOLCANIC SILTSTONE, dark greenish gray (5G 4/1) to dark gray (N4). Thin to medium thick beds of heavily bioturbated NANNOFOSSIL CHALK, light gray (2.5Y 6/0) to gray (2.5Y 5/0) occur interbedded with VOLCANIC SILTSTONE. VOLCANICLASTIC BRECCIA, dark gray (2.5Y 4/0), occurs in Sections 6, 36-150 cm, and Section 7, 22-50 cm.
1.5		2				2.5Y 3/0		
2.0		2				2.5Y 4/0		
2.5		3				2.5Y 6/0		
3.0		3				2.5Y 4/0		
3.5		4	Upper Miocene			2.5Y 5/0		
4.0		4	Upper Miocene			2.5Y 6/0		
4.5		4	Upper Miocene			2.5Y 4/0		
5.0		5				2.5Y 5/0	Minor lithology: None.	
5.5		5				2.5Y 2/0		
6.0		6				2.5Y 5/0		
6.5		6				2.5Y 4/0		
7.0		7				2.5Y 4/0		
7.5		CC				T		

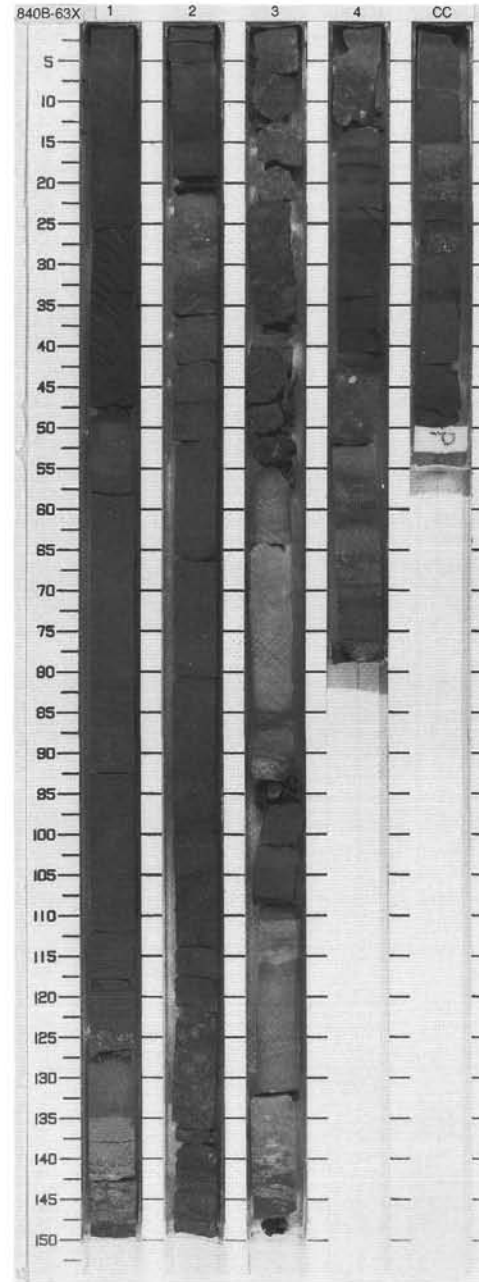


135-840B-63X
 SMEAR SLIDE SUMMARY (%):

	3,44
	D
TEXTURE:	
Sand	--
Silt	--
Clay	--
COMPOSITION:	
Clay	10
Glass	74
Inorganic calcite	4
Magnetite	Tr
Nannofossils	Tr
Plagioclase	1
Pore space	10
Pyroxene	Tr
Volcanic ash	1

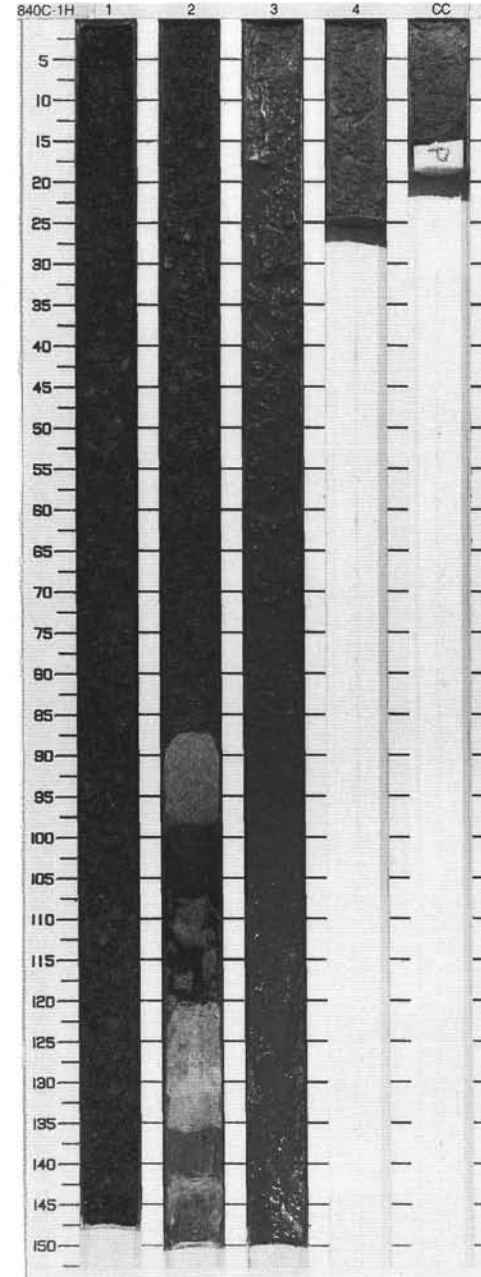
SITE 840 HOLE B CORE 63X CORED 587.7 - 597.3 mbsf


Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.0		1					2.5Y 2/0	VOLCANIC SILTSTONE, VOLCANIC SANDSTONE, SILTY CHALK WITH FORAMS, NANNOFOSSIL CHALK and CALCAREOUS CLAYSTONE
1.0		2	Upper Miocene				2.5Y 6/0 To 2.5Y 4/0	Major lithologies: VOLCANIC SILTSTONE, very dark gray (2.5Y 3/0) to gray (2.5Y 6/0), frequently planar-laminated, normally-graded and bioturbated. VOLCANIC SANDSTONE, black (2.5Y 2/0) to dark gray (2.5Y 4/0), frequently planar-laminated, normally-graded, with convolute beds. Heavily bioturbated SILTY CHALK WITH FORAMS gray (2.5Y 5/0 to 2.5Y 6/0) grades with NANNOFOSSIL CHALK and CALCAREOUS CLAYSTONE.
		3					5G 5/1	
		4					2.5Y 4/0	
		5					2.5Y 5/0 To 2.5Y 3/0	Minor lithology: VOLCANICLASTIC BRECCIA with subrounded clasts up to 1 cm across occurs in Section 1, 45-49 cm, and in Section 6, at 125-128 and 6-54 cm.
		6					2.5Y 3/0	

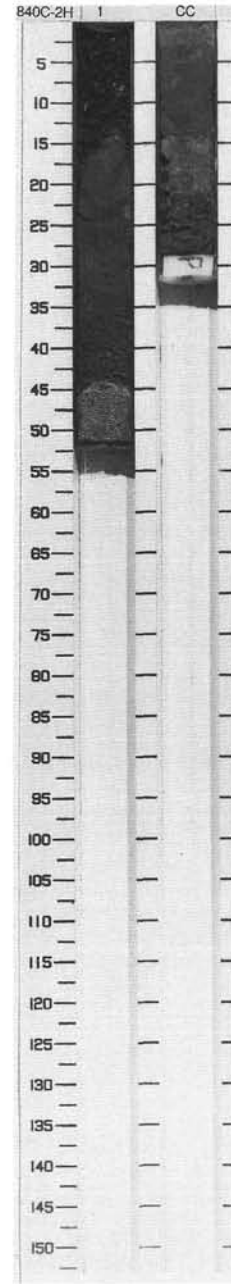


WASHED 0.0-38.0 mbsf

SITE 840 HOLE C CORE 1H				CORED 38.0 - 47.5 mbsf		
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Description
0.5 1.0		1				<p>COARSE VITRIC SAND and VITRIC SAND</p> <p>Major lithologies: Structureless dark gray (5Y 4/1) COARSE VITRIC SAND, with pumice and black volcanic pebbles up to 2 cm in diameter with minor clay. Occurs in Section 1, 0-150 cm, and in Section 2, 0-88 cm. VITRIC SAND, gray (5Y 7/1) to grayish brown (5Y 7/1). Occurs in structureless intervals in Section 2, 137-143, in Section 3, 0-150 cm, in Section 4, 0-24 cm, and in Section CC. Faint laminae visible in Section 3, 6-7 cm, but core is strongly water-saturated and disturbed by drilling. In Section 2, 99-121 cm, this lithology occurs in a fining-upward interval with a sharp, graded, basal contact and contains pumice clasts up to 6 cm across.</p>
		2				
		3				
		4				
		Lower Pleistocene				<p>Minor lithologies: NANNOFOSSIL OOZE, light gray (5Y 7/1) occurs in Section 2, 88-99, 121-137, and 143-145 cm. VITRIC SILT, gray (5Y 5/1), occurs in Section 2, 145-150 cm.</p>



Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5		1 CC		<ul style="list-style-type: none"> ▲ F ▲ F ▲ F ▲ F 	---		2.5Y 4/2	<p>VITRIC SILT, VITRIC SAND and VITRIC GRAVEL</p> <p>Major lithologies: VITRIC SILT, dark grayish brown (2.5Y 4/2), occurs in Section CC at 3-14 and 21-28 cm. VITRIC SAND, dark grayish brown (2.5Y 4/2) occurs in Section 1, 16-44 cm. VITRIC GRAVEL, very dark grayish brown (2.5Y 3/2).</p> <p>Minor lithology: NANNOFOSSIL OOZE, light gray (5Y 7/1), occurs in Section 1, 44-52 cm, and in Section CC, 0-3 and 14-21 cm.</p>



135 840C-3H
SMEAR SLIDE SUMMARY (%):

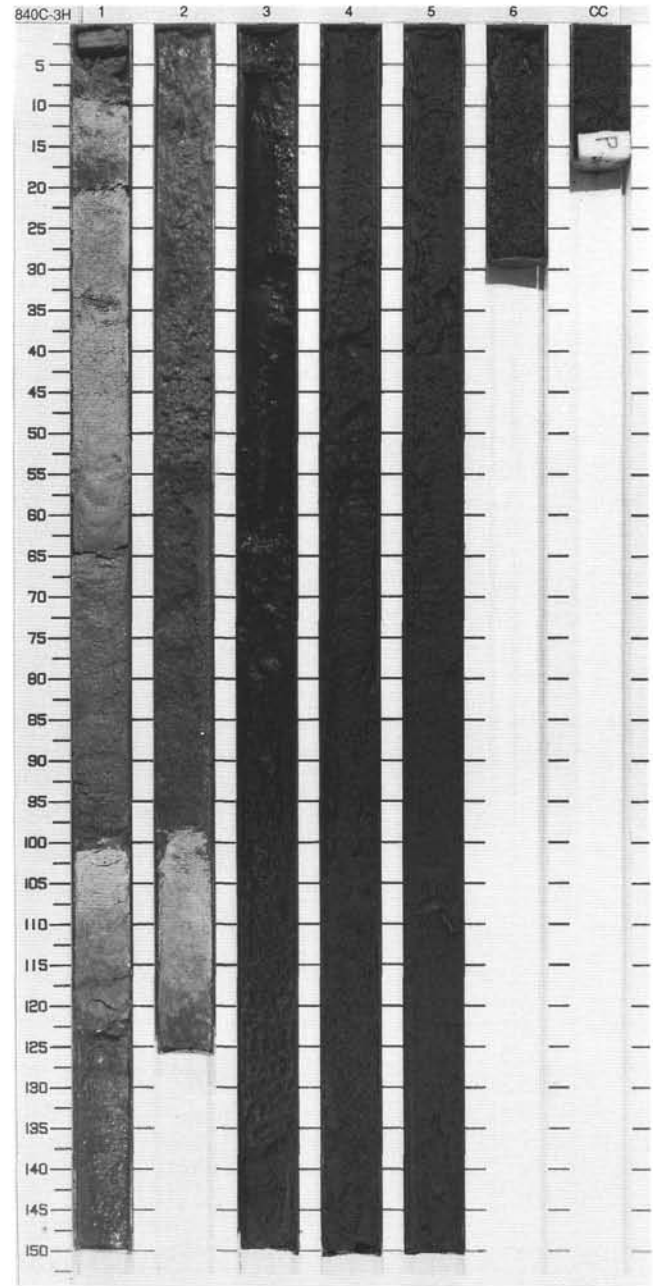
	1, 45	2, 120	3, 80
TEXTURE:	D	D	D
Sand	15	---	100
Silt	36	70	---
Clay	49	30	---

COMPOSITION:

Accessory minerals	Tr	Tr	15
Aragonite	Tr	---	---
Clay	20	15	---
Feldspar	1	Tr	20
Foraminifers	5	10	---
Glass	45	60	65
Nannofossils	29	15	---
Opauques	Tr	---	---

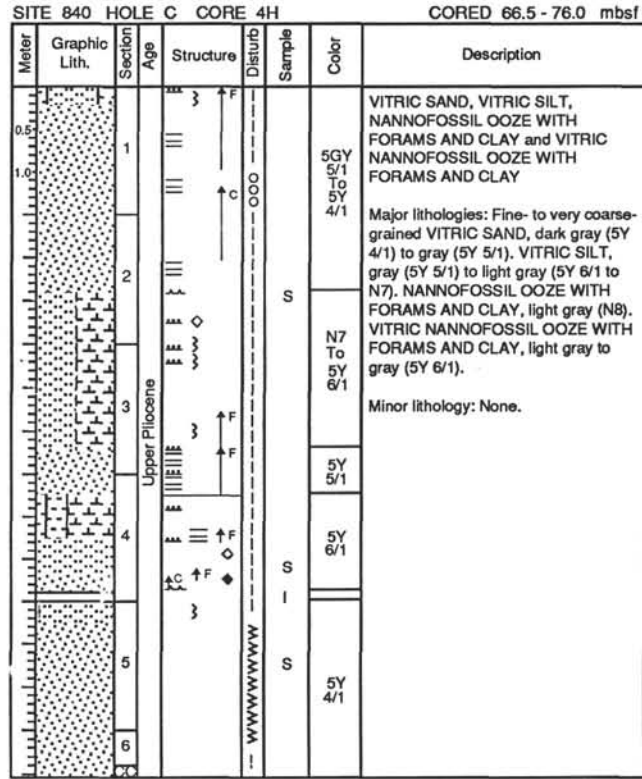
SITE 840 HOLE C CORE 3H CORED 57.0 - 66.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5	[Pattern]	1		↑ F		S	5Y 7/1 to 5Y 6/1	NANNOFOSSIL VITRIC SILT WITH CLAY, VITRIC SAND, VITRIC GRAVEL and VITRIC SAND WITH FELDSPAR AND ACCESSORY MINERALS.
1.0	[Pattern]	2		↑ F		S	5Y 7/1 to 5Y 4/1	Major lithologies: NANNOFOSSIL VITRIC SILT WITH CLAY, light gray (5Y 7/1). VERY COARSE-GRAINED VITRIC SAND, greenish gray (5Y 6/1). VITRIC GRAVEL, light gray (5Y 7/1) to dark gray (5Y 4/1). VITRIC SAND WITH FELDSPAR AND ACCESSORY MINERALS, greenish black (5G 2/1).
3	[Pattern]	3	Upper Pliocene			S	5G 2/1	Minor lithology: VITRIC SILT, greenish gray (5GY 5/1), in Section 1, 0-9 cm.
4	[Pattern]	4						
5	[Pattern]	5						
6	[Pattern]	6						

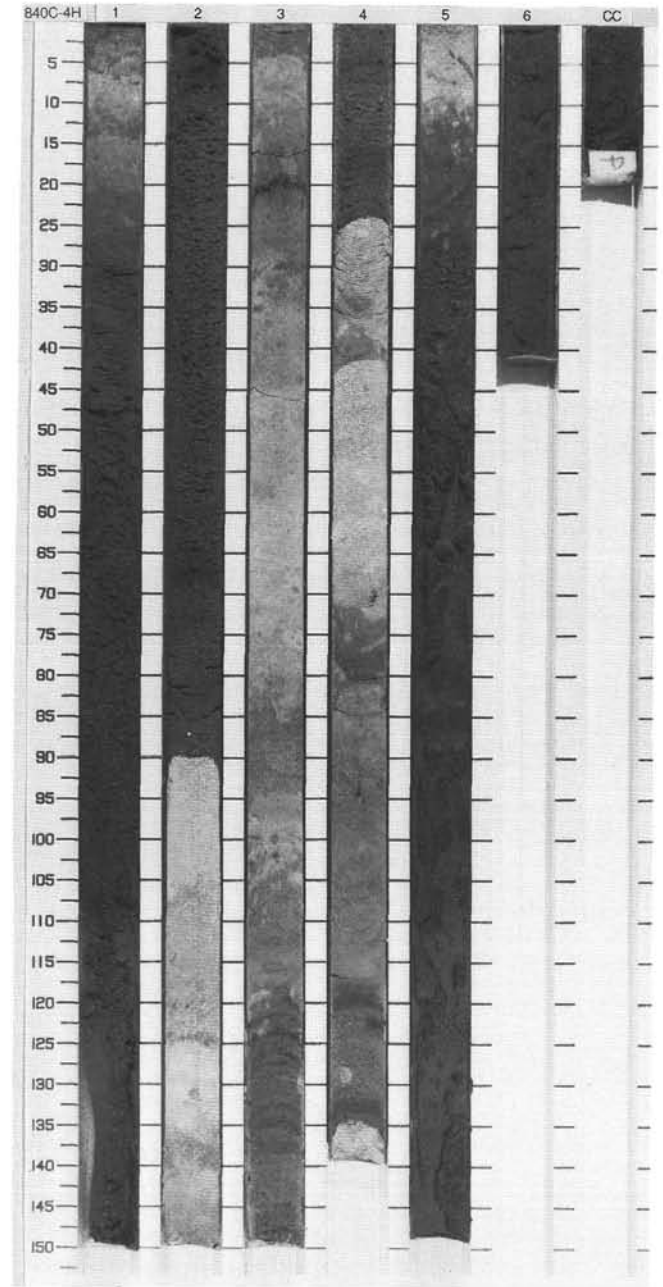


135-840C-4H
SMEAR SLIDE SUMMARY (%):

	2, 95 D	4, 110 D	5, 73 D
TEXTURE:			
Sand	---	0	100
Silt	16	95	---
Clay	84	5	---
COMPOSITION:			
Accessory minerals	---	2	4
Clay	25	5	---
Feldspar	---	6	6
Foraminifers	10	---	---
Glass	6	87	90
Nannofossils	59	---	---



WASHED 76.0-124.0 mbsf



135-840C-5H
SMEAR SLIDE SUMMARY (%):

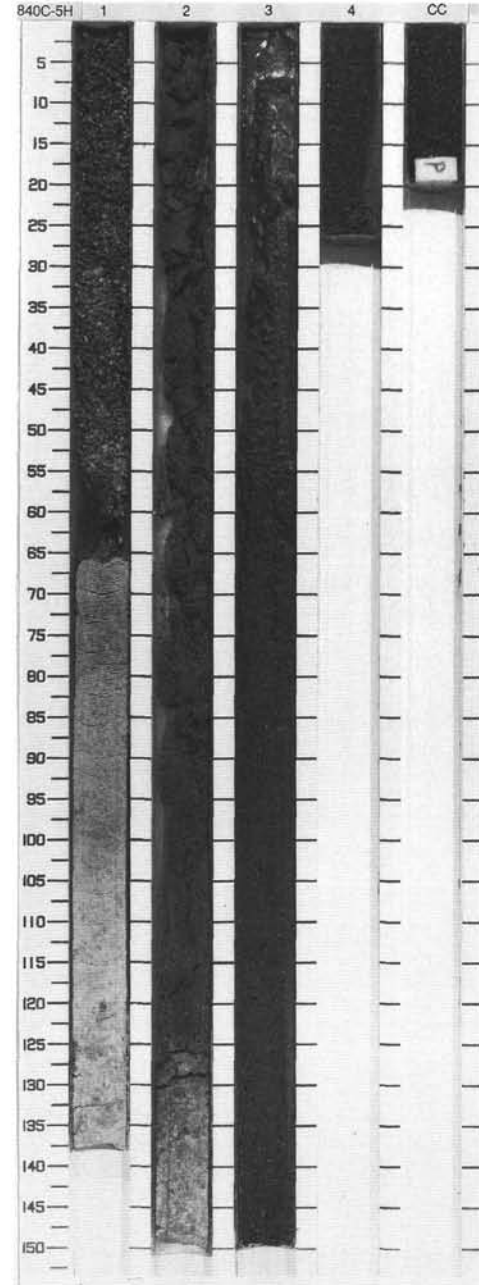
TEXTURE: 1, 103
0

Sand 0
Silt 30
Clay 70

COMPOSITION:

Accessory minerals Tr
Clay 15
Feldspar 1
Foraminifers 5
Glass 25
Nannofossils 54

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5		1		↑ F		S	5Y 2.5/1	PUMICEOUS GRAVEL, VITRIC SAND and VITRIC NANNOFOSSIL MIXED SEDIMENT WITH CLAY
1.0		1		↑ F		S	N7	
1.5		2	Upper Pliocene	↑ F		I	5Y 4/1	Major lithologies: PUMICEOUS GRAVEL, very dark gray (5Y 2/1) to gray (5Y 5/1). VITRIC SAND, black (5Y 2/0) to dark gray (5Y 4/1). VITRIC NANNOFOSSIL MIXED SEDIMENT WITH CLAY, light gray (N7) to gray (N5).
2.0		3		↑ F			5Y 3/1	Minor lithology: None.
2.5		4						



135-840C-6H
SMEAR SLIDE SUMMARY (%):

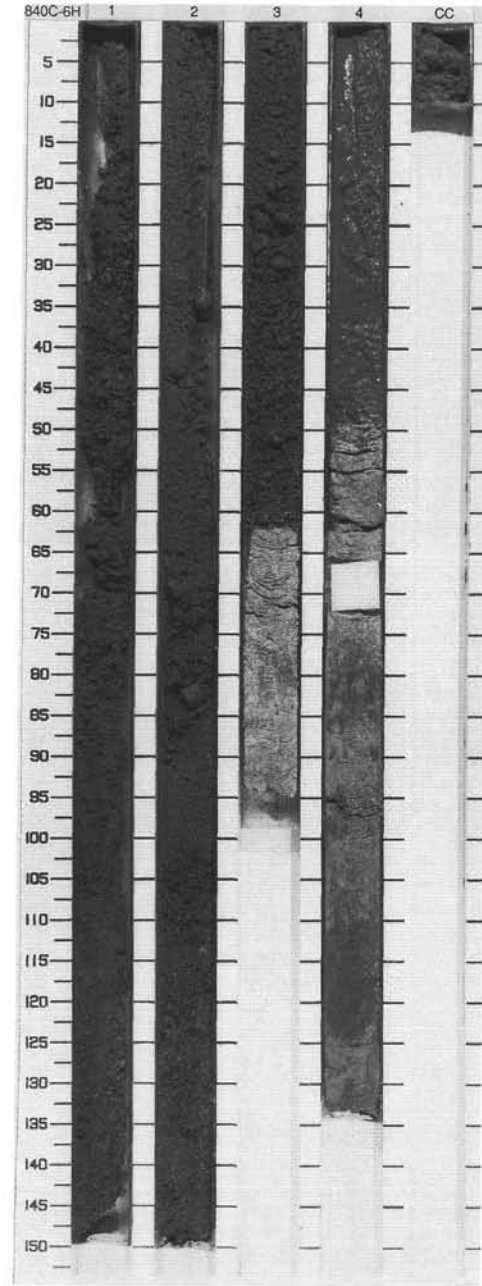
	3,90	4,120
	D	M
TEXTURE:		
Sand	---	100
Silt	62	---
Clay	38	---

COMPOSITION:

Feldspar	1	2
Foraminifers	6	---
Glass	55	98
Nannofossils	38	---

SITE 840 HOLE C CORE 6H CORED 133.5 - 143.0 mbsf

Meter	Graphic Lih.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5	[Patterned Lithology]	1	Lower Pliocene	[Structure]	[Disturb]	[Sample]	5Y 4/1	PUMICEOUS GRAVEL, NANNOFOSSIL VITRIC MIXED SEDIMENT and VITRIC SAND Major lithology: Poorly sorted, matrix-supported, homogenous PUMICEOUS GRAVEL, dark gray (5Y 4/1), with angular to subangular pebbles up to 4 cm in diameter. NANNOFOSSIL VITRIC MIXED SEDIMENT, light gray (N7). VITRIC SAND, greenish gray (5GY 5/1). Minor lithology: None.
1.0		2						
1.5		3						
2.0		4						
						S	N8	
							5Y 5/1	
						S	N7	



135-840C-7H
SMEAR SLIDE SUMMARY (%):

	2, 28	2, 55
	M	D

TEXTURE:

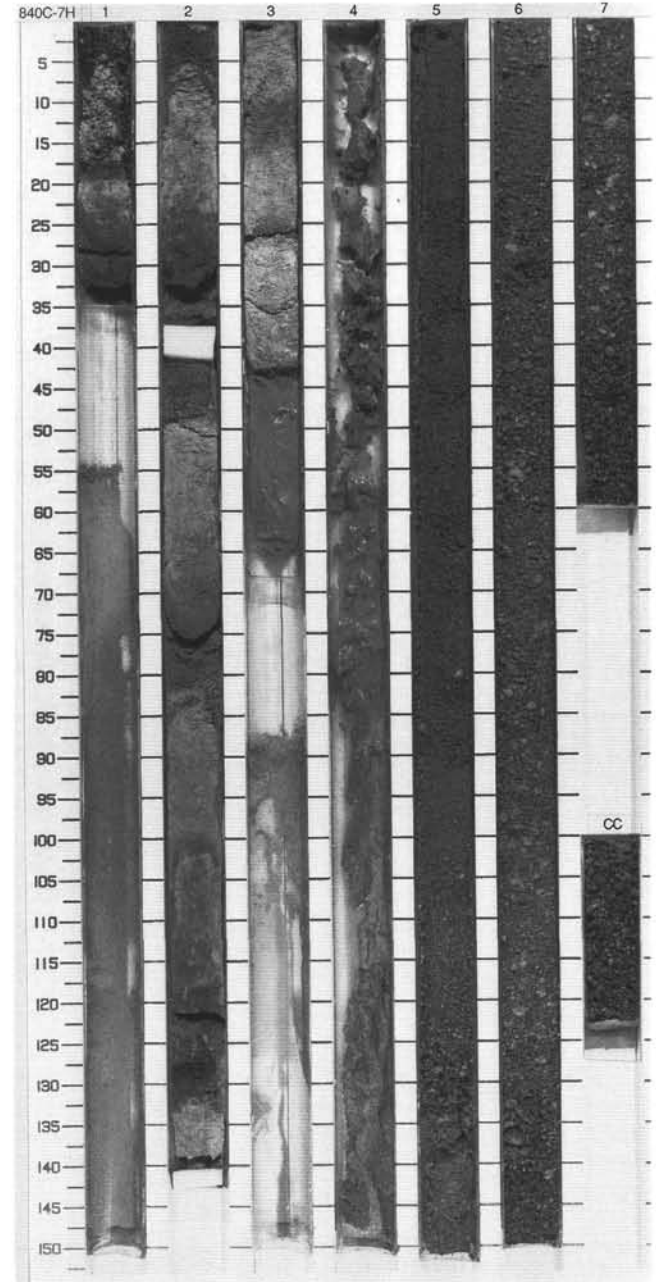
Sand	5	15
Silt	90	54
Clay	5	31

COMPOSITION:

Accessory minerals	1	Tr
Calcite	---	4
Clay	5	---
Feldspar	2	1
Foraminifers	---	4
Glass	92	60
Nannofossils	---	31

SITE 840 HOLE C CORE 7H CORED 143.0 - 152.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5		1		↑ F	W	N4		PUMICEOUS GRAVEL, VITRIC SAND and NANNOFOSSIL VITRIC SILT
1.05	Void							Major lithologies: Poorly sorted PUMICEOUS GRAVEL, dark gray (5Y 4/1) to gray (5Y 5/1), with angular to subrounded clasts up to 2 cm in diameter. VITRIC SAND, light olive gray (5Y 6/1) to dark gray (5Y 4/1). NANNOFOSSIL VITRIC SILT, light gray (5Y 7/1 and N7) to gray (5Y 5/1) and medium gray (N5). Planar-laminated vitric sand commonly grades upward into mottled nannofossil vitric silt.
		2		↑ F		5Y 4/1 To 5Y 7/1		
		3		↑ F		N7		Minor lithologies: VITRIC SILT, dark gray (N4), in Section 1, 19-34 cm, and in Section 2, 67-82 cm, and dark grayish brown (10YR 4/2) in Section 2, 26-30 cm. POLYMICT VOLCANIC GRAVEL, dark gray (N4), in Section 1, 0-19 cm.
	Void							
		4		↑ F		5Y 6/1		
		5		↑ F				
		6		↑ F		5Y 4/1 To 5Y 5/1		
		7		↑ F		5Y 4/1		

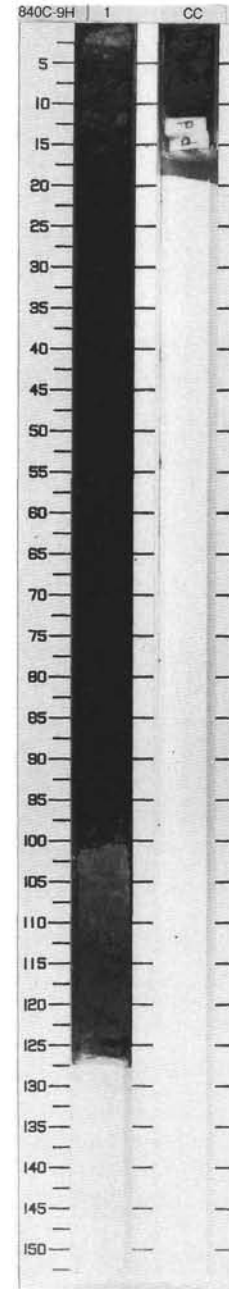


135-840C-9H
SMEAR SLIDE SUMMARY (%):

	1, 102	1, 120
	M	M
TEXTURE:		
Sand	0	0
Silt	34	70
Clay	66	30
COMPOSITION:		
Accessory minerals	Tr	2
Clay	20	29
Feldspar	1	4
Foraminifers	8	Tr
Glass	25	65
Nannofossils	46	Tr

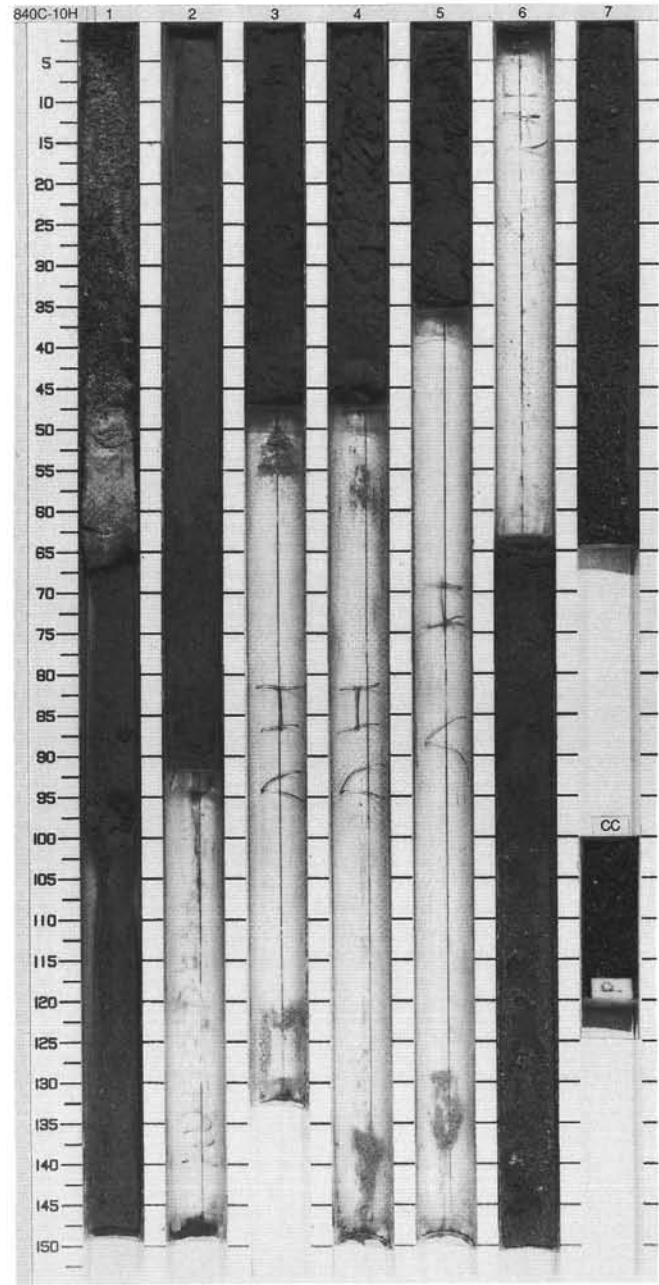
SITE 840 HOLE C CORE 9H CORED 162.0 - 171.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5	[Graphic Lithology: Dotted pattern]	1		↑ F		S S	2.5Y 2/0	VITRIC SAND, CLAYEY VITRIC SILT and VITRIC NANNOFOSSIL MIXED SEDIMENT WITH CLAY
1.0							5Y 6/1	
							5GY 4/1	Major lithologies: VITRIC SAND, black (2.5Y 2/0), fining upward from very coarse- to fine-grained sand. CLAYEY VITRIC SILT, dark greenish gray (5G 4/1 to 4GY 4/1), in Section 1, 5-13 and 113-128 cm, and in Section CC, 0-11 cm. VITRIC NANNOFOSSIL MIXED SEDIMENT WITH CLAY, gray (5Y 6/1), in Section 1, 0-5 and 100-113 cm.
								Minor lithology: None.



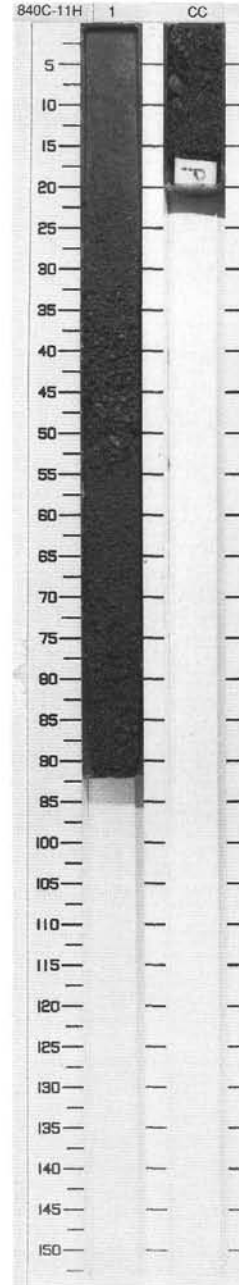
	1, 54
	M
TEXTURE:	
Sand	--
Silt	40
Clay	60
COMPOSITION:	
Accessory minerals	10
Clay	Tr
Feldspar	Tr
Foraminifers	Tr
Glass	30
Nannofossils	60

SITE 840 HOLE C CORE 10H				CORED 171.5 - 181.0 mbsf		
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample Color	Description
0.5	[Dotted pattern]	1	- / z -		S	N8 To N6 Major lithologies: COARSE VITRIC SAND, medium light gray (N6) to dark grayish brown (2.5Y 4.2), poorly sorted, subangular, pumiceous grains with bimodal grain size distribution. No sedimentary structures or fabric preserved. Occurs from Section 1, 66 cm through Section 6, 100 cm. VERY COARSE VITRIC SAND, medium light gray (N6), with moderately well-sorted, subrounded grains. Grains include light-colored pumice, dark volcaniclastics and angular olivine. Occurs in Section 1, 0-48 cm, and from Section 6, 100 cm downcore to Section CC.
1.5						
2.0	Void	2	-		2.5Y 4/2	Minor lithology: VITRIC SILT NANNOFOSSIL OOZE, very light gray (N8), firm, structureless, with water escape structure in Section 1, 52 cm. Occurs in Section 1, 48-66 cm.
2.5						
3.0	Void	3	-		2.5Y 4/2	
3.5						
4.0	Void	4	-		2.5Y 4/2	
4.5						
5.0	Void	5	-		2.5Y 4/2	
5.5						
6.0	[Dotted pattern]	6	-		N6	
6.5						
7.0	[Dotted pattern]	7	-		N4	
CC						



SITE 840 HOLE C CORE 11H CORED 181.0 - 190.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0 1.2		1		↑ F ↑ F	WWW		N6 To N5 5YR 4/1	<p>COARSE VITRIC SAND and PUMICEOUS GRAVEL</p> <p>General Description: Entire core highly disturbed by drilling and handling procedures. Sedimentary structures, grain fabric, and texture destroyed or altered.</p> <p>Major lithologies: COARSE VITRIC SAND, medium light gray (N6), poorly-sorted, with subangular grains. Ungraded PUMICEOUS GRAVEL, medium gray (N5), with rounded grains.</p> <p>Minor lithology: VERY COARSE VITRIC SAND WITH PUMICE PEBBLES, brownish gray (5YR 4/1), with subrounded volcaniclastic grains and large (up to 4 cm diameter) pumice pebbles.</p>



SITE 840 HOLE C CORE 12H CORED 190.5 - 200.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1		1	Upper Miocene				5Y 4/1 N5	VERY COARSE VITRIC SAND and VERY COARSE PUMICEOUS SAND General Description: Entire core highly disturbed by drilling and handling procedures. Sedimentary structures, grain fabric, and texture destroyed or altered.
2		2	Lower Pliocene				5Y 4/1	Major lithologies: VERY COARSE VITRIC SAND, medium dark gray (N4), with subrounded to angular, light-colored (pumiceous), dark volcaniclastic grains and sparse angular olivine grains. Occurs in Section 1, 0-13 cm, Section 2, 112-150 cm, Section 3, 0-20 cm and in Section CC, VERY COARSE PUMICEOUS SAND, medium gray (N5), with subrounded light (pumice grains) and few dark volcaniclastic grains. Occurs in from Section 1, 60 cm, through Section 2, 112 cm. Minor lithologies: VITRIC SILT, olive gray (5Y 4/1), firm, structureless. Occurs in Section 1, 25-60 cm. VITRIC NANNOFOSSIL OOZE, very light gray (N8), firm, structureless. Occurs in Section 1, 13-25 cm. VERY COARSE VITRIC SAND WITH PUMICE, medium dark gray (N4) is similar to the pumiceous sand of the major lithology but with more pumice pebbles. Occurs in Section 3, 20-81 cm.
3		3					N3 To N4	

WASHED 200.0-250.0 mbsf

