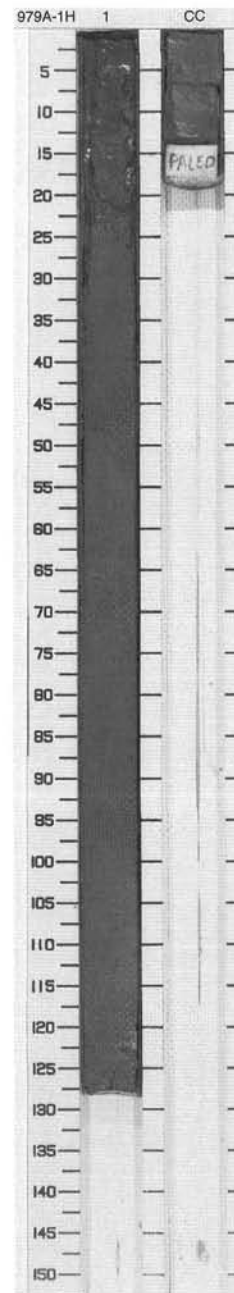


SITE 979 HOLE A CORE 1H

CORED 0.0 - 1.5 mbsf

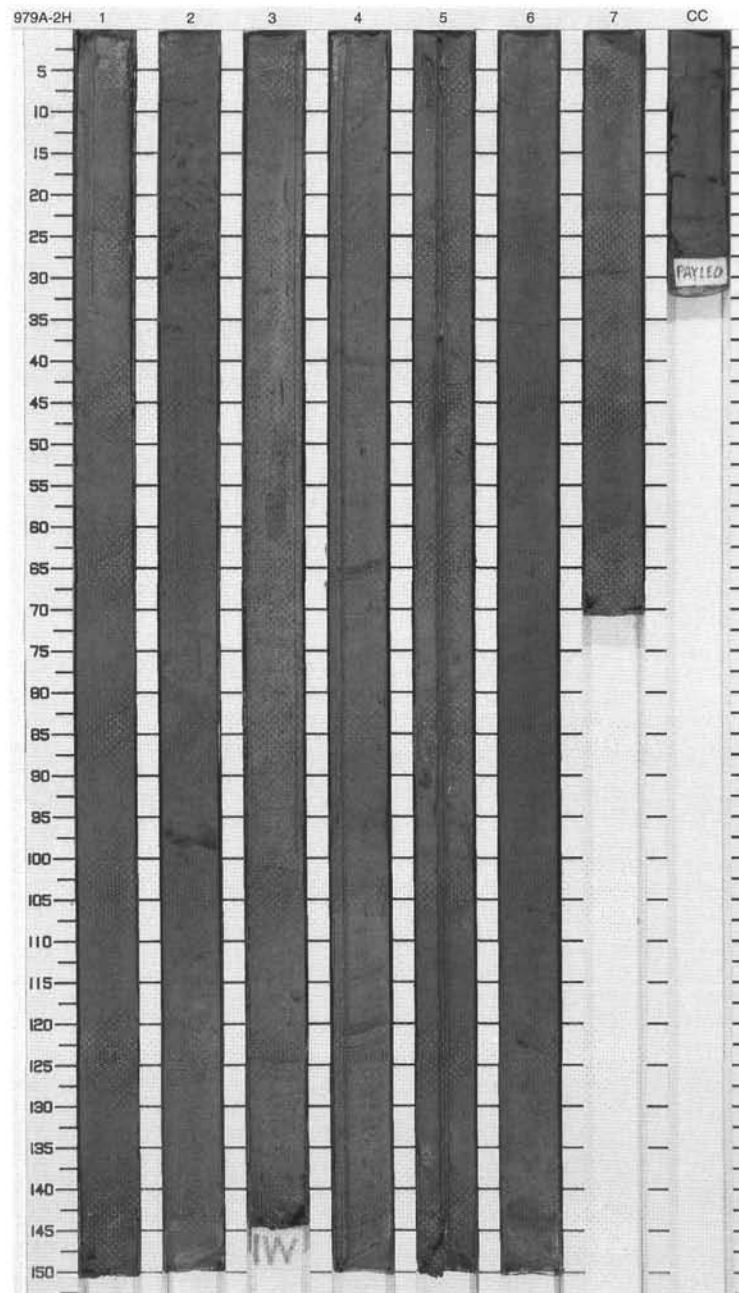
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1	Pleistocene	Ø		S	5Y 4/4	NANNOFOSSIL SILTY CLAY AND CALCAREOUS CLAY Major Lithology: The major lithologies are moderate olive brown (5Y 4/4) NANNOFOSSIL SILTY CLAY and light olive gray to olive gray (5Y 5/2 to 5Y 5/1) CALCAREOUS CLAY.
				Ø		S	5Y 5/2 To 5Y 5/1	
		CC		Ø		MS		



SITE 979 HOLE A CORE 2H

CORED 1.5 - 11.0 mbsf

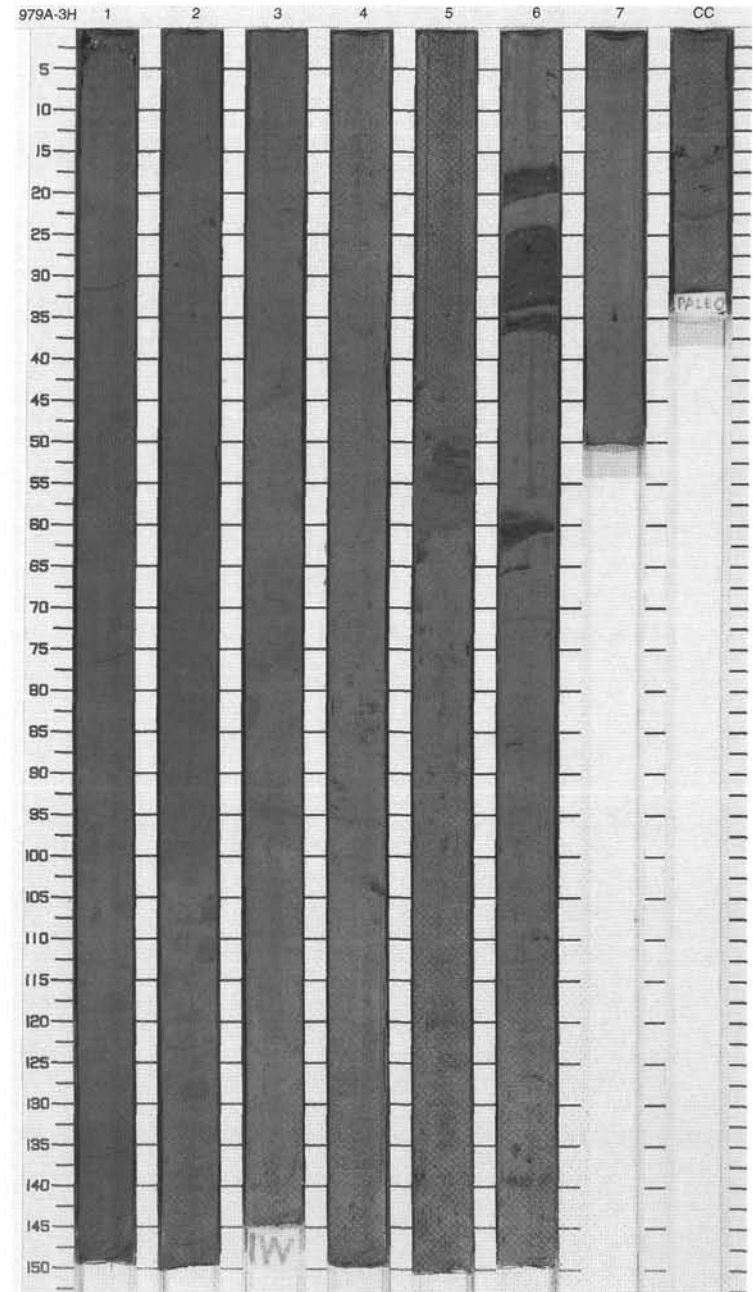
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		P			5Y 5/1	NANNOFOSSIL SILTY CLAY Major Lithology: The major lithology is olive gray, dark greenish gray, and grayish olive (5Y 4/1, 5GY 4/1, 10Y 4/2) NANNOFOSSIL SILTY CLAY.
				P			5GY 4/1	
2				P			10Y 4/2	
		2		P		S		Minor Lithology: Sequences of SANDY SILTY CLAY are present throughout the core: 96-98 cm in Section 2, 144-145 cm in Section 3, 64-66 cm in Section 4, 120-130 cm (laminated) in Section 4, and 30 cm in Section 7.
				P		S		
3				P		S		
		3		P				5GY 4/1 To 5GY 5/1
4				P		I		
				P				
5		4		P		S		10Y 4/2 To 5GY 4/1
				P				
6				P				
		5		P				10Y 4/1 To 10Y 4/2
7				P				
				P				
8		6		P		S		
				P				
9				P				
		7		P				
				P				
10		CC				M		



SITE 979 HOLE A CORE 3H

CORED 11.0 - 20.5 mbsf

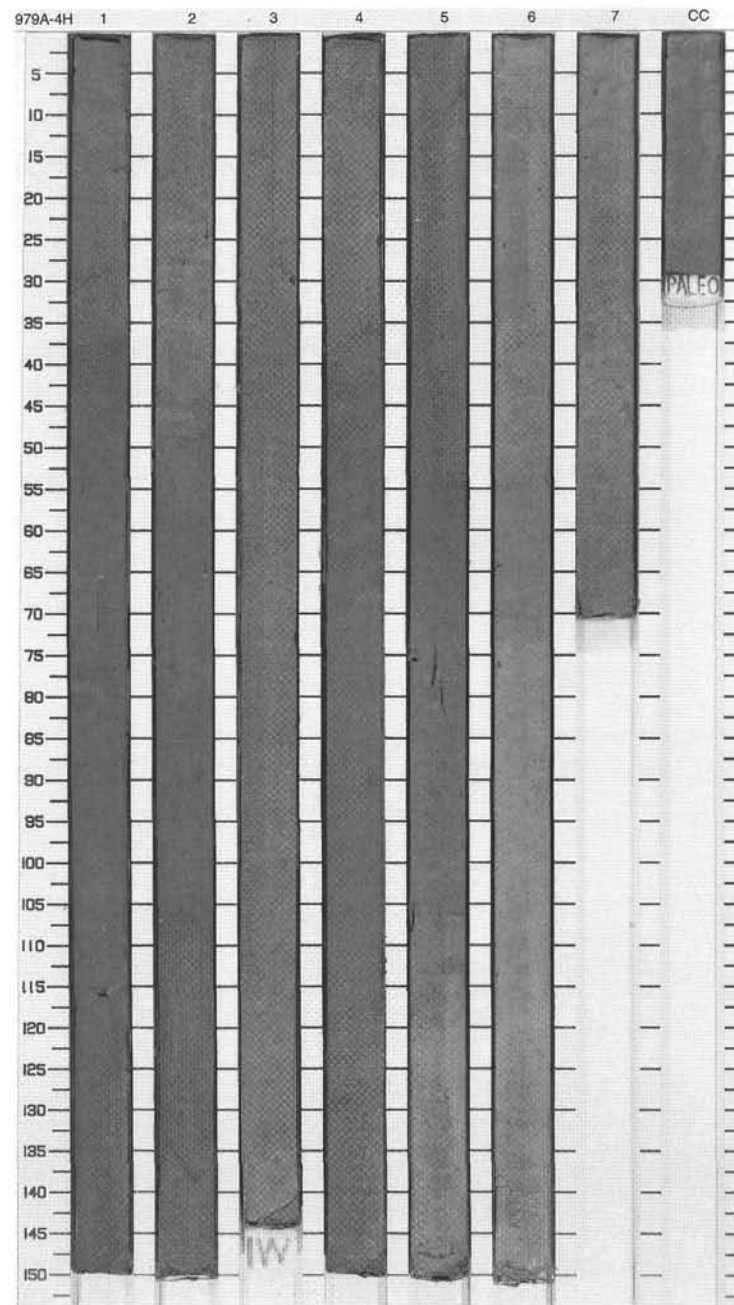
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		P				CALCAREOUS CLAY
2		2		P				Major Lithology: The major lithology is grayish olive to dark greenish gray (10Y 4/2 to 5GY 4/1) CALCAREOUS CLAY.
3		3		P				Minor Lithologies: Sequences of NANNOFOSSIL-RICH CLAY are present throughout the core. Coarse to fine SAND layers are present in Section 5, at 53-60 cm and in Section 6, at 16-19, 23-33, 35-37, and 59-63 cm.
4		4		P				
5		5		P				
6		6		P				
7		7		P				
8		8		P				
9		9		P				
10		10		P				
11		11		P				
12		12		P				
13		13		P				
14		14		P				
15		15		P				
16		16		P				
17		17		P				
18		18		P				
19		19		P				
20		20		P				
21		21		P				
22		22		P				
23		23		P				
24		24		P				
25		25		P				
26		26		P				
27		27		P				
28		28		P				
29		29		P				
30		30		P				
31		31		P				
32		32		P				
33		33		P				
34		34		P				
35		35		P				
36		36		P				
37		37		P				
38		38		P				
39		39		P				
40		40		P				
41		41		P				
42		42		P				
43		43		P				
44		44		P				
45		45		P				
46		46		P				
47		47		P				
48		48		P				
49		49		P				
50		50		P				
51		51		P				
52		52		P				
53		53		P				
54		54		P				
55		55		P				
56		56		P				
57		57		P				
58		58		P				
59		59		P				
60		60		P				
61		61		P				
62		62		P				
63		63		P				
64		64		P				
65		65		P				
66		66		P				
67		67		P				
68		68		P				
69		69		P				
70		70		P				
71		71		P				
72		72		P				
73		73		P				
74		74		P				
75		75		P				
76		76		P				
77		77		P				
78		78		P				
79		79		P				
80		80		P				
81		81		P				
82		82		P				
83		83		P				
84		84		P				
85		85		P				
86		86		P				
87		87		P				
88		88		P				
89		89		P				
90		90		P				
91		91		P				
92		92		P				
93		93		P				
94		94		P				
95		95		P				
96		96		P				
97		97		P				
98		98		P				
99		99		P				
100		100		P				
101		101		P				
102		102		P				
103		103		P				
104		104		P				
105		105		P				
106		106		P				
107		107		P				
108		108		P				
109		109		P				
110		110		P				
111		111		P				
112		112		P				
113		113		P				
114		114		P				
115		115		P				
116		116		P				
117		117		P				
118		118		P				
119		119		P				
120		120		P				
121		121		P				
122		122		P				
123		123		P				
124		124		P				
125		125		P				
126		126		P				
127		127		P				
128		128		P				
129		129		P				
130		130		P				
131		131		P				
132		132		P				
133		133		P				
134		134		P				
135		135		P				
136		136		P				
137		137		P				
138		138		P				
139		139		P				
140		140		P				
141		141		P				
142		142		P				
143		143		P				
144		144		P				
145		145		P				
146		146		P				
147		147		P				
148		148		P				
149		149		P				
150		150		P				



SITE 979 HOLE A CORE 4H

CORED 20.5 - 30.0 mbsf

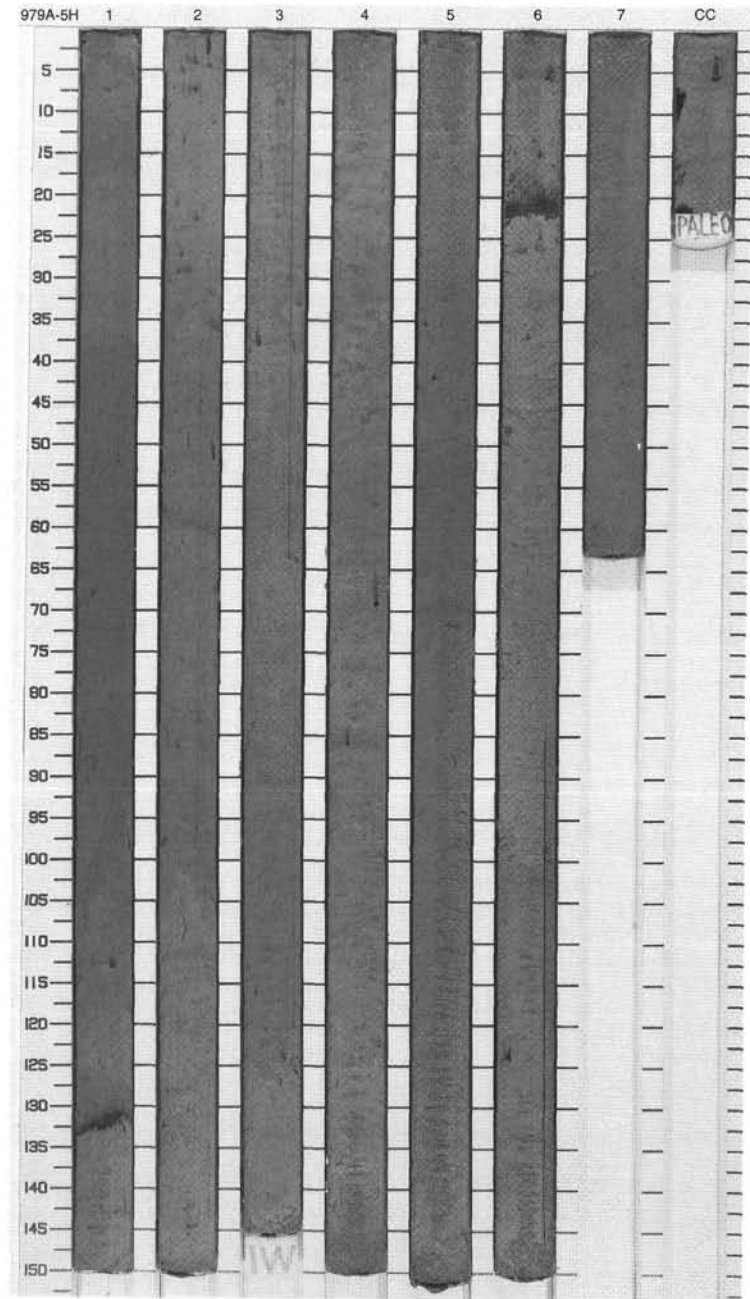
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		P		S	10Y 4/2 To 5GY 4/1	NANNOFOSSIL CLAY Major Lithology: The major lithology is grayish olive (10Y 4/2), olive gray (5Y 4/1; 5Y 5/1), and dark greenish gray (5GY 4/1; 5GY 5/1) NANNOFOSSIL CLAY with pyrite-rich burrow fills and scattered shell fragments.
2		2		P			5Y 4/1 To 5GY 5/1	
3		3		P				
4		4	Pleistocene	P		I	5GY 5/1 To 5Y 4/1	
5		5		P				
6		6		P				
7		7		P				
8		8		P		S	5Y 5/1	
9		9		P				
10		10	CC			M		



SITE 979 HOLE A CORE 5H

CORED 30.0 - 39.5 mbsf

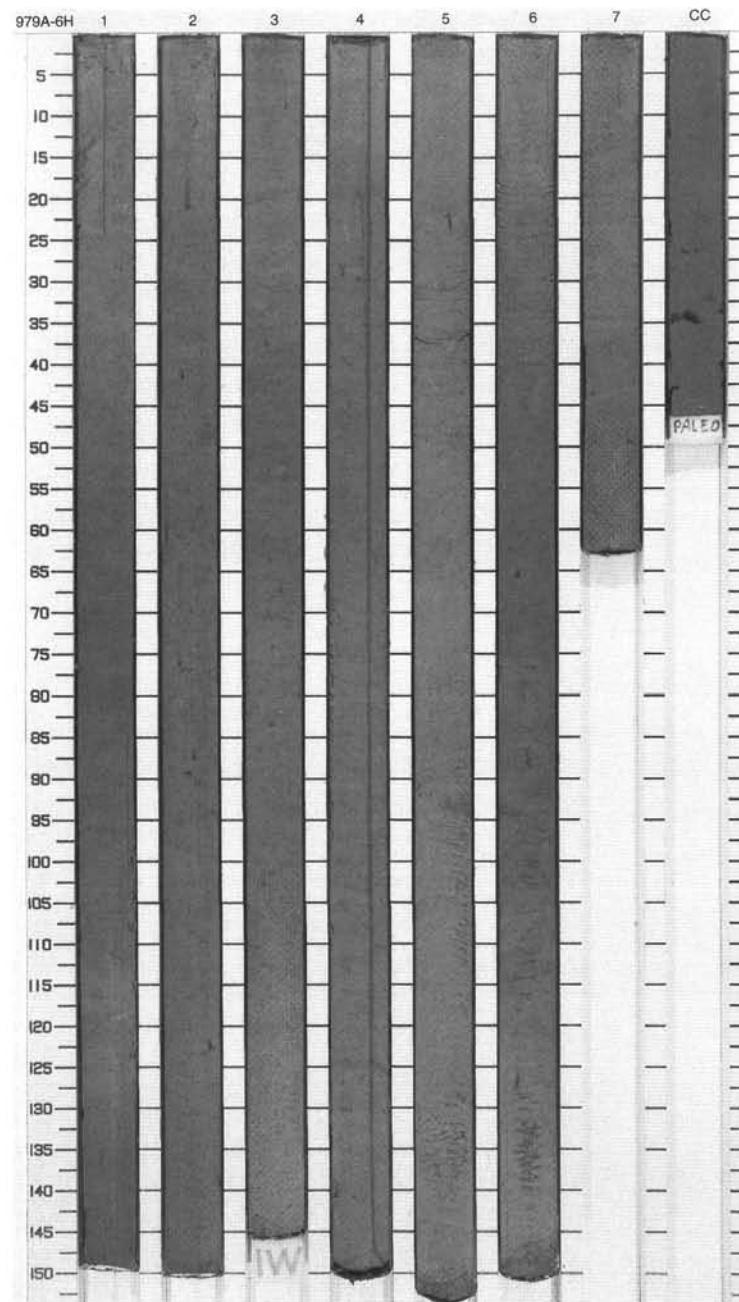
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1		1	~			5GY 5/1 To 5GY 5/2	<p>NANNOFOSSIL CLAY and NANNOFOSSIL SILTY CLAY</p> <p>Major Lithologies: The major lithologies are grayish green (5GY 5/2) to greenish gray (5GY 5/1) and grayish olive (10Y 4/2) NANNOFOSSIL CLAY and medium greenish gray (5GY 5/1) NANNOFOSSIL SILTY CLAY with common silt-sized dispersed foraminifers, and flecks and blebs of pyrite.</p> <p>Minor Lithologies: A graded bed of SILTY SAND rich in quartz, feldspar, rock fragments, and opaque minerals is present in Section 6 from 19-22 cm. Another silt-rich layer is located in Section 1 from 130-133 cm. Both have sharp, irregular bases and gradational tops.</p>
2		2	~				
3		3	~				<p>5GY 5/1</p>
4		4	~				
5		5	~				<p>5GY 5/1 To 5GY 5/2</p>
6		6	~				
7		7	~			10Y 4/2	<p>M</p>
8		8	~				
9		9	~				



SITE 979 HOLE A CORE 6H

CORED 39.5 - 49.0 mbsf

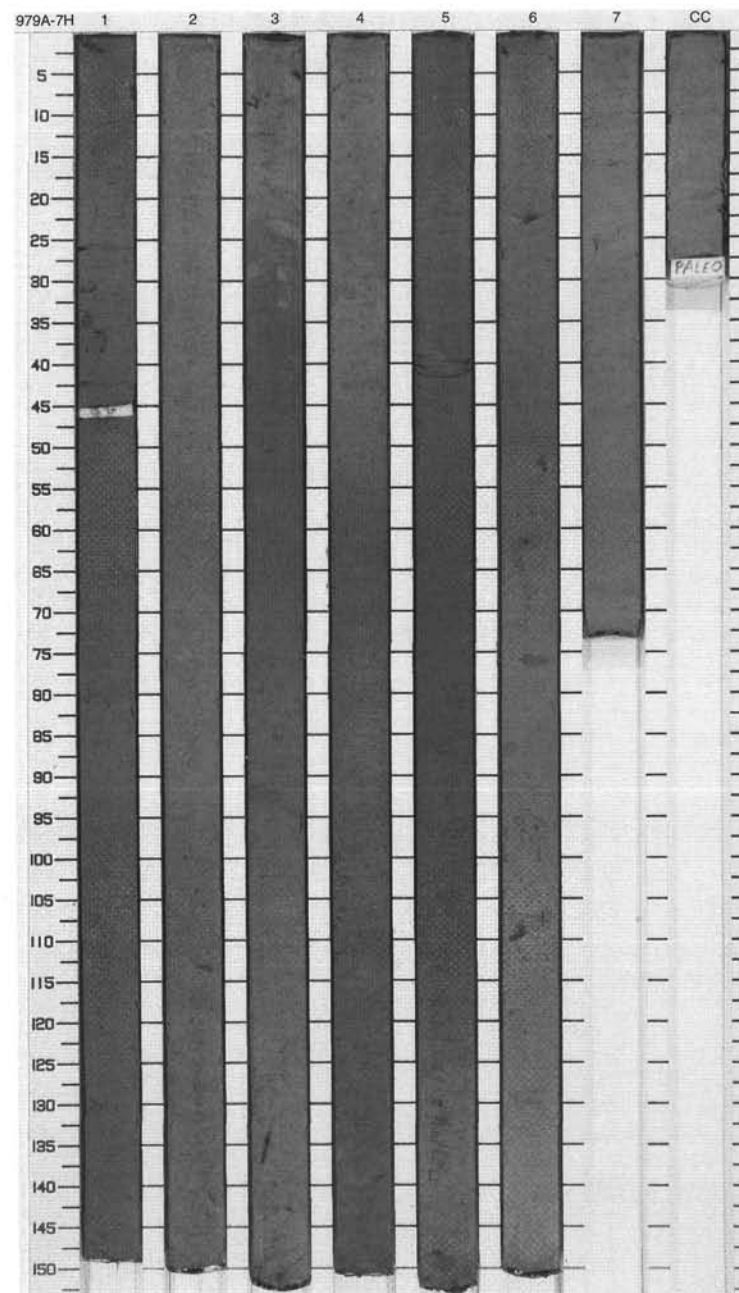
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1				S	5Y 4/1	<p>NANNOFOSSIL-RICH SILTY CLAY</p> <p>Major Lithology: The major lithology is NANNOFOSSIL-RICH SILTY CLAY that varies in color between dark gray (5Y 4/1), dark greenish gray (5GY 4/1), medium greenish gray (5GY 5/1) and grayish olive (10Y 4/2). Silt-sized foraminifers are disseminated throughout the core and, in a few places, concentrated into blebs.</p> <p>Minor Lithologies: A discontinuous layer of SILTY SAND in Section CC, 34–35 cm has a sharp base and gradational top.</p>
2		2						
3		3						
4		3				I	5GY 4/1	
5		4						
6		5					5GY 5/1	
7		6				S	10Y 4/2	
8		6					5GY 4/1	
9		7					5Y 4/1	
10		CC				M	5GY 4/1	



SITE 979 HOLE A CORE 7H

CORED 49.0 - 58.5 mbsf

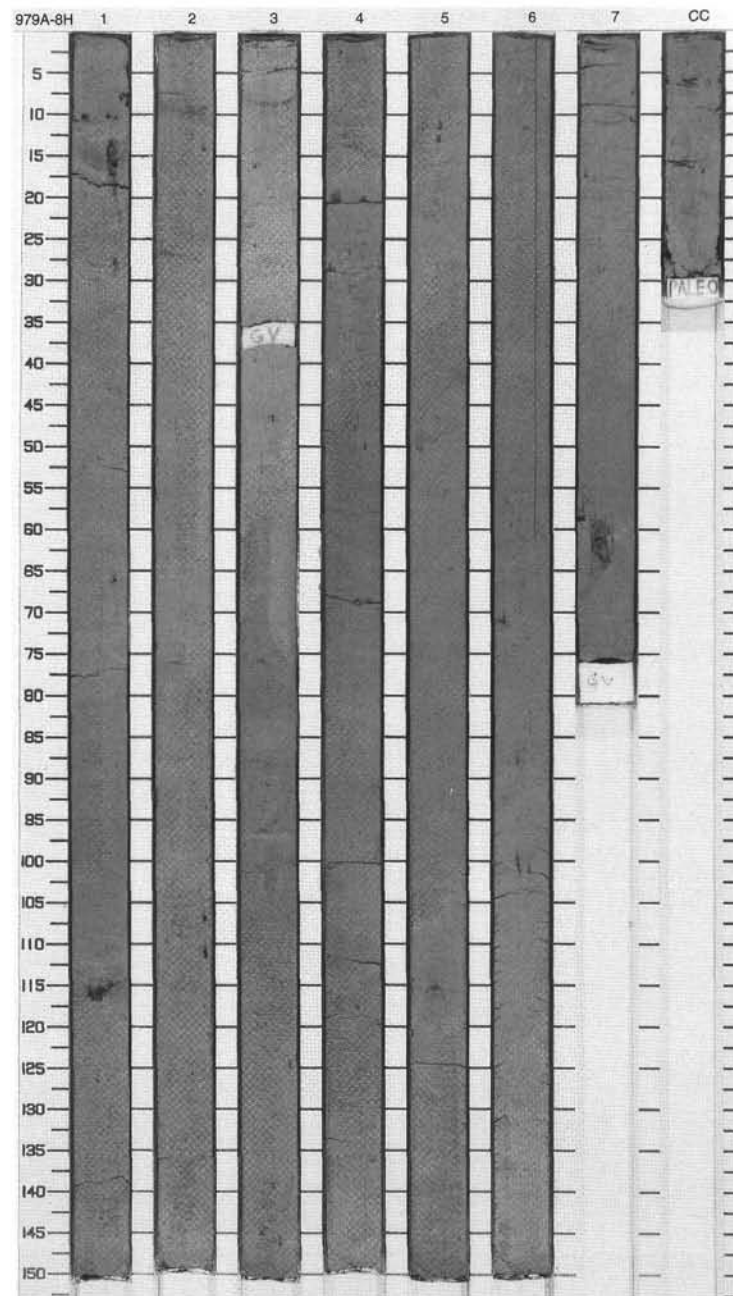
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		(P)		S	5GY 4/1	<p>NANNOFOSSIL-RICH CLAY and CALCAREOUS CLAY</p> <p>Major Lithologies: The main sediment types are light-colored (dusky yellow green, 5GY 5/2) NANNOFOSSIL-RICH CLAY that alternates down sequence with darker (dark greenish gray, 5GY 4/1; moderate olive brown, 5Y 4/1; grayish olive, 10Y 4/2; and olive gray, 5Y 4/1) CALCAREOUS CLAY.</p> <p>General Description: Pyritized silty blebs are common in Sections 1-4.</p>
2		2		(P)			5GY 5/2	
3		3		(P)		S	5Y 4/4 To 10Y 4/2	
4		4	Pleistocene	(P)				
5		5		(P)			5GY 2/1 To 10Y 4/2	
6		6		(P)				
7		7		(P)		S		
8		8				M		



SITE 979 HOLE A CORE 8H

CORED 58.5 - 68.0 mbsf

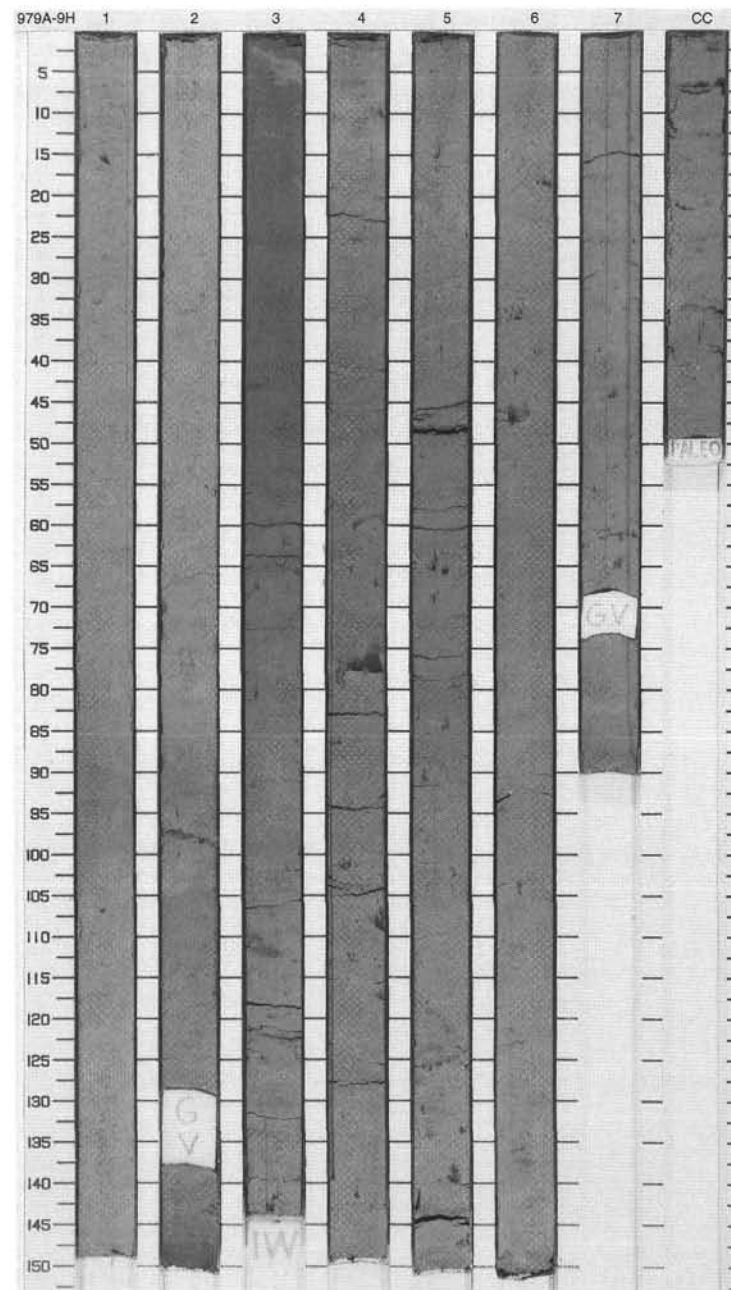
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1				S	5GY 5/2	CALCAREOUS CLAY and NANNOFOSSIL CLAY Major Lithologies: The predominant lithologies are dusky yellow green (5GY 5/2) CALCAREOUS CLAY and medium olive gray (5Y 5/1) to medium greenish gray (5GY 5/1) NANNOFOSSIL CLAY. The NANNOFOSSIL CLAY in Sections 2 and 3 from 0-70 cm contains a few percent diatoms.
2		2					5Y 5/1	
3		3				S		
4		4						
5		5				S	5GY 5/1	
6		6						
7		7						
8		8						
9		9						
10		10				M		



SITE 979 HOLE A CORE 9H

CORED 68.0 - 77.5 mbsf

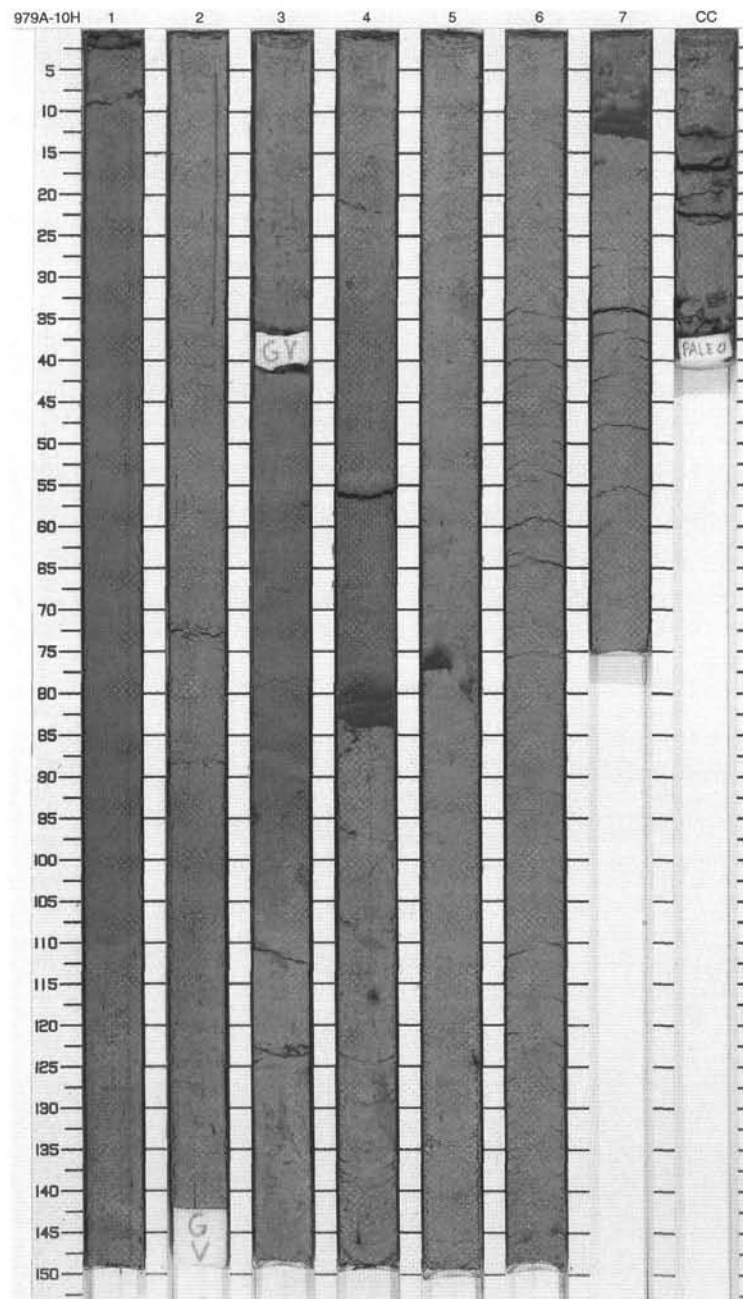
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1						NANNOFOSSIL CLAY and NANNOFOSSIL SILTY CLAY
2		2				S	5GY 6/1	Major Lithologies: The main sediment types are NANNOFOSSIL SILTY CLAY which is greenish gray (5GY 6/1) to light olive gray (5Y 5/2) in color and has flecks of dark silt-sized grains (pyrite?) throughout, and NANNOFOSSIL CLAY which ranges in color from grayish olive (10Y 4/2), dusky yellow green (5GY 5/2), medium greenish gray (5GY 5/1), and medium olive gray (5Y 5/1), with silt-sized pyrite and shell fragments dispersed throughout and concentrated in blebs and discontinuous laminae.
3						S	5Y 5/2	
4		3				S	10Y 4/2	
5						S	5GY 5/2	
6		4	Pleistocene			S	5GY 5/1	Minor Lithologies: A discontinuous layer of PYRITE-RICH CALCAREOUS SANDY CLAY present in Section 4 from 75-77 cm has a sharp basal contact and a gradational upper contact.
7		5					5Y 5/1	General Description: There is a gas void in Section 2 from 129-138 cm, and gas expansion cracks are common.
8		6					5GY 5/1	
9		7						
10		CC				M		



SITE 979 HOLE A CORE 10H



CORED 77.5 - 87.0 mbsf

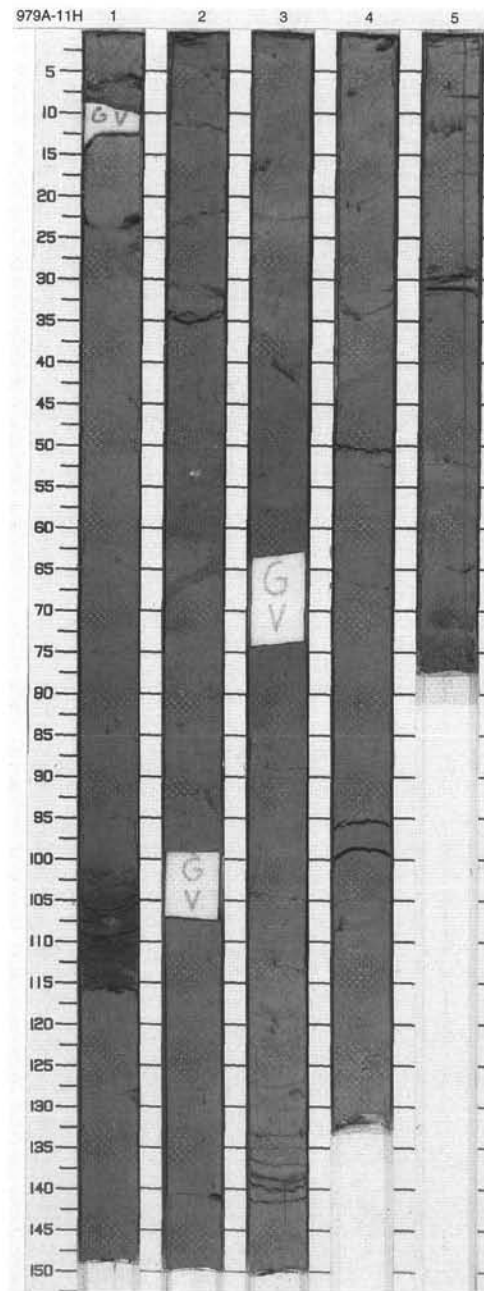
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
								NANNOFOSSIL CLAY
1		1	Pleistocene			S	5Y 5/1	Major Lithology: The dominant sediment type is homogeneous NANNOFOSSIL CLAY with flecks of silt-sized opaque material (pyrite?) throughout. Colors include medium to light olive gray (5Y 5/1 to 5Y 6/1), greenish gray (5GY 6/1), and medium greenish gray (5GY 5/1).
2		5Y 6/1						
3		5Y 5/1						
4	S						5Y 5/1	Minor Lithologies: Layers of dark gray (N4) SANDY CLAY are found in Section 4, 78–83 cm, Section 5, 74–77 cm and Section 7, 9–13 cm. The graded layer in Section 4 has a scoured base and a bioturbated top.
5								
6								
7		4					Pleistocene	
8								
9								
10		5	Pleistocene			S	5Y 6/1	
		6	Pleistocene			S	5GY 6/1	
		7	Pleistocene			M	5GY 6/1 To 5GY 5/1	
		8	Pleistocene			M	5GY 5/1	
		9	Pleistocene			M	5GY 5/1	
		10	Pleistocene			M	5GY 5/1	



SITE 979 HOLE A CORE 11H

CORED 87.0 - 96.5 mbsf

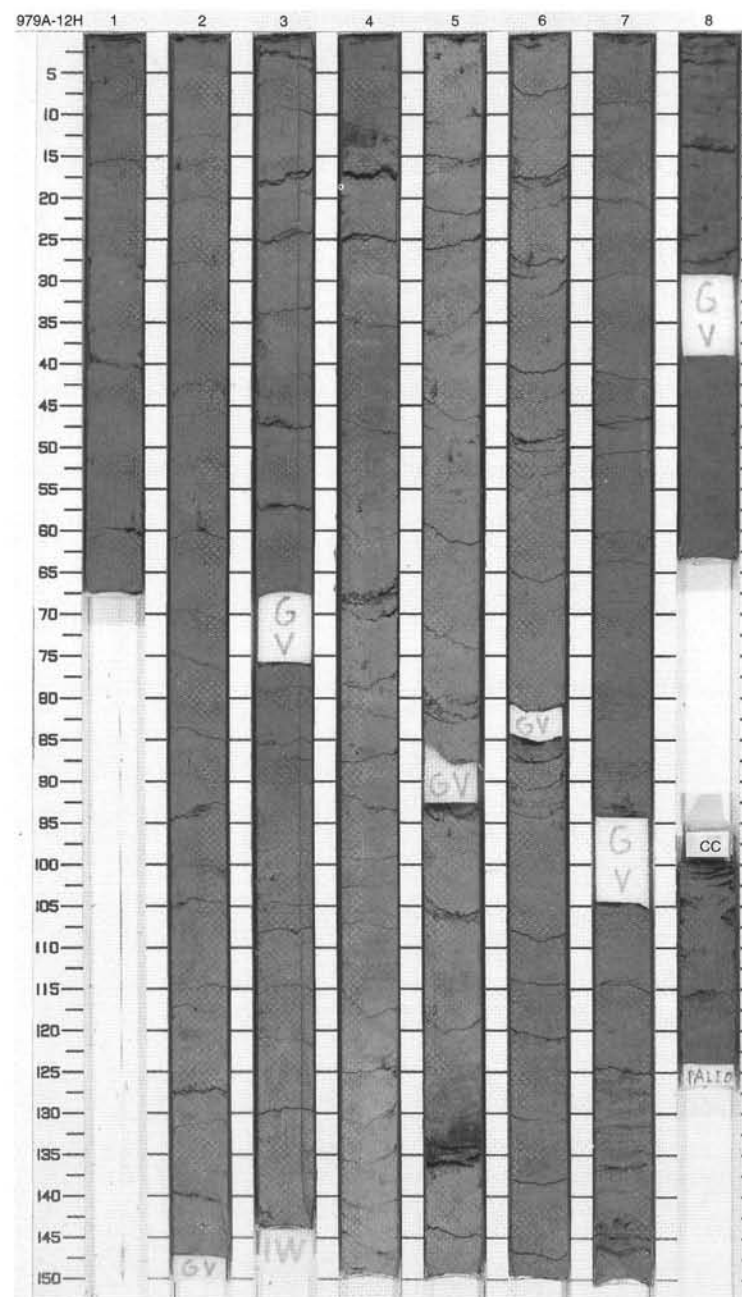
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	Pleistocene	 	-	S		NANNOFOSSIL CLAY
							5GY 5/1	Major Lithology: The predominant lithology is NANNOFOSSIL CLAY that contains approximately 30-45% nannofossils. Colors include medium greenish gray (5GY 5/1), dusky yellow green (5GY 5/2), and light olive gray (5Y 5/2). Silty blebs consisting mainly of pyrite are common.
							5GY 5/2	
							10Y 4/2	
2		2				S		Minor Lithologies: An interval of grayish olive (10Y 4/2) NANNOFOSSIL DIATOM SILTY SANDY CLAY is present in Section 2, 0-68 cm. Sand- and silt-rich layers are present in Section 1, 102-116 cm and Section 5, 73-77 cm. The layer in Section 1 contains cohesionless, medium-grained SAND overlying a sharp base and fines upward to SILTY SAND and SILT.
							5GY 5/1	
						S	5Y 5/2	
							5GY 5/1	
3		3						General Description: Gas voids are present in Section 2, 99-107 cm and Section 3, 63-75 cm.
						S	10Y 4/2	
							5GY 5/1	
4		4						
							10Y 4/2	
5		5						
						M	5GY 5/1	



SITE 979 HOLE A CORE 12H

CORED 96.5 - 106.0 mbsf

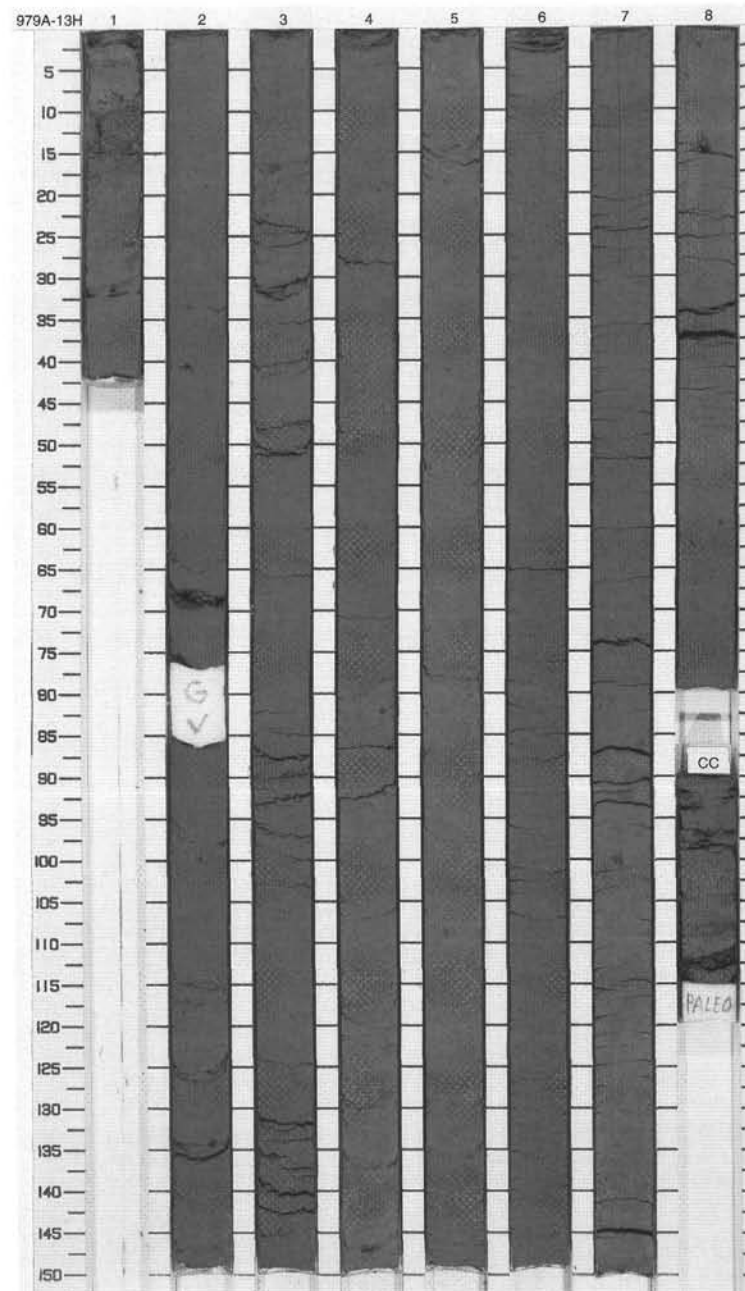
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	P	}}		S	5GY 5/1	NANNOFOSSIL CLAY
2		2	P	}}				Major Lithology: The major lithology is olive gray (5Y 4/1; 5Y 5/1) to dark greenish gray (5GY 5/1) NANNOFOSSIL CLAY with scattered grayish black (N2) mineral (pyrite?) grains, foraminifers, and shell fragments.
3		3	P	}}			5Y 4/1	Minor Lithology: An olive gray (5Y 4/1) NANNOFOSSIL-RICH CLAY layer with dark gray (N3) SANDY SILT in the upper part is present at 130-136 cm in Section 5.
4		4	P	}}		I		
5		5	P	}}		S	5Y 5/1	
6		6	P	}}		S	5Y 4/1	
7		7	P	}}		S		
8		8	P	}}		S		
9		9	P	}}		S		
10		10	P	}}		S		
		CC				M		



SITE 979 HOLE A CORE 13H

CORED 106.0 - 115.5 mbsf

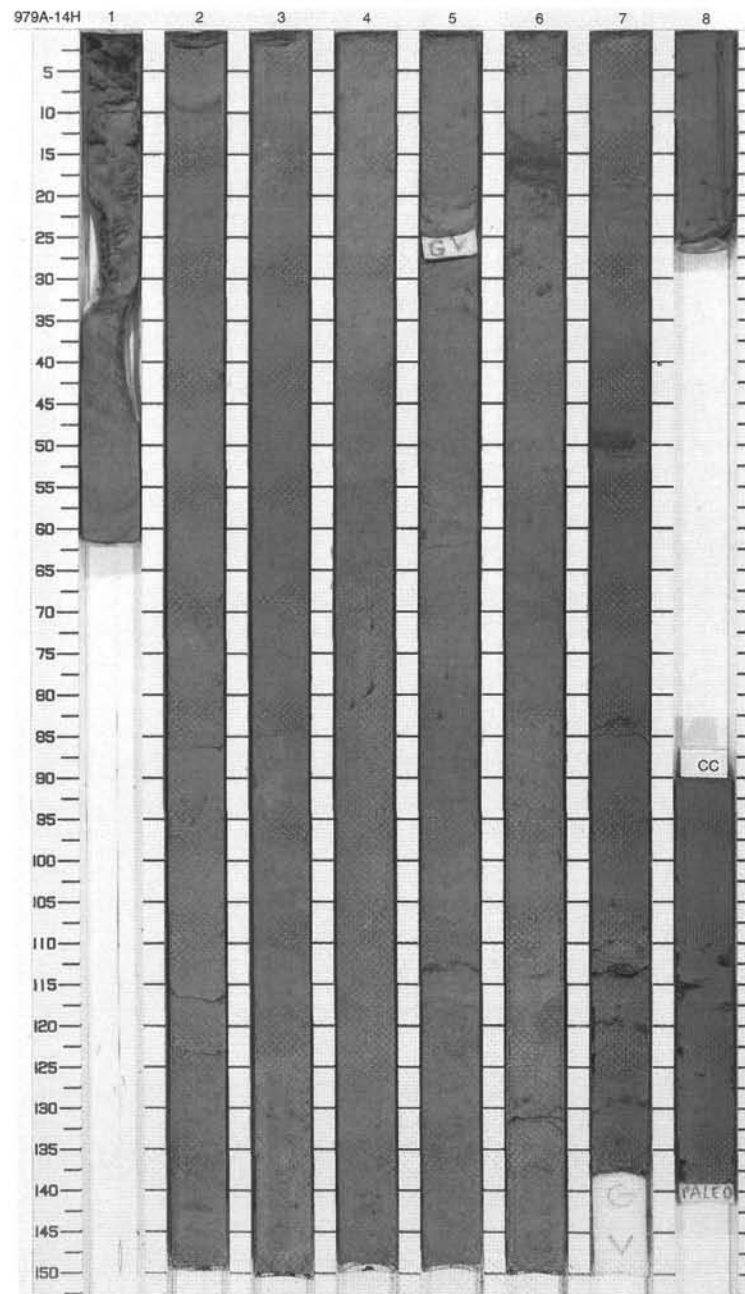
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1		1	✗		S	5GY 4/1	NANNOFOSSIL CLAY and CALCAREOUS-SILICEOUS OOZE
2		2	✗				Major Lithologies: The major lithologies are grayish olive (10Y 4/2), olive gray (5Y 4/1) to dark greenish gray (5GY 4/1; 5GY 5/1) NANNOFOSSIL CLAY, and grayish olive (10Y 4/2) CALCAREOUS-SILICEOUS OOZE with scattered shell fragments.
3		3	✗			10Y 4/2	Minor Lithology: A medium dark gray (N4) SAND layer is present at 22-25 cm in Section CC. Dark greenish gray (5GY 4/1) SILT layers are present at 9-17 cm in Section 1 and at 79 cm in Section 4.
4		4	✗				General Description: Burrows filled with grayish black (N2) minerals (pyrite?) are present at 100 cm in Section 7 and at 17 cm in Section 8.
5		5	✗			5GY 4/1	
6		6	✗			10Y 4/2	
7		7	✗		S		
8		8	✗			5GY 5/1	
9		9	✗		S	5Y 4/1	
10		10	✗		S M		



SITE 979 HOLE A CORE 14H

CORED 115.5 - 125.0 mbsf

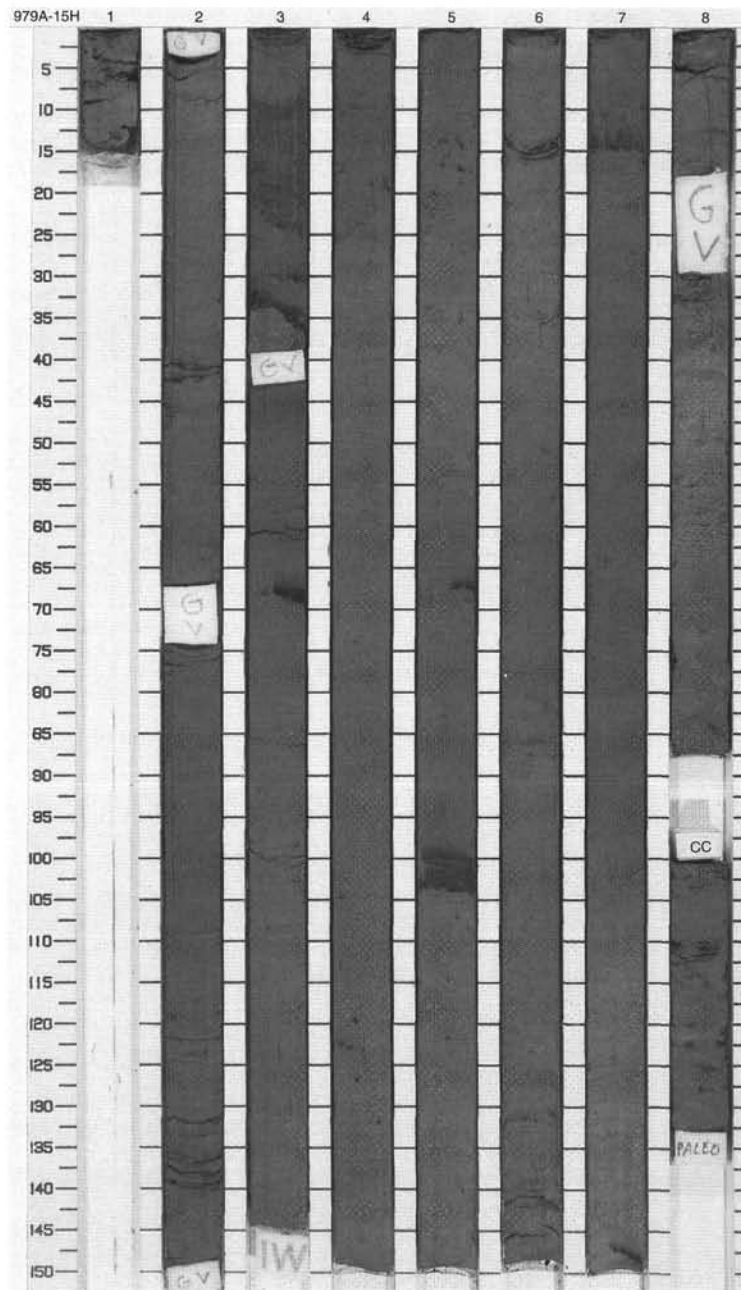
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1		1	✓	✓	S	5Y 5/1	NANNOFOSSIL CLAY and NANNOFOSSIL-RICH SILTY CLAY Major Lithologies: The major lithologies are light olive gray (5Y 5/2) to moderate olive brown (5Y 4/4) NANNOFOSSIL CLAY and dark greenish gray (5GY 4/1) NANNOFOSSIL-RICH SILTY CLAY with scattered grayish black (N2) mineral (pyrite?) grains and shell fragments. Minor Lithology: Medium dark gray (N4) SAND layers with normal grading occur at 14–16 cm in Section 6 and at 48–50.5 cm in Section 7. General Description: Gas voids are present at 24–27 cm in Section 5 and at 138–150 cm in Section 7.
			✓	✓		5Y 4/4	
2		2	✓	✓		5GY 5/1	
			✓	✓		5Y 5/1 To 5Y 4/1	
3		3	✓	✓			
			✓	✓			
4		4	✓	✓			
			✓	✓			
5		5	✓	✓			
			✓	✓			
6		6	✓	✓			
			✓	✓			
7		7	✓	✓			
			✓	✓			
8		8	✓	✓			
			✓	✓			
9		9	✓	✓			
			✓	✓			
10		10	✓	✓			
			✓	✓			



SITE 979 HOLE A CORE 15H

CORED 125.0 - 134.5 mbsf

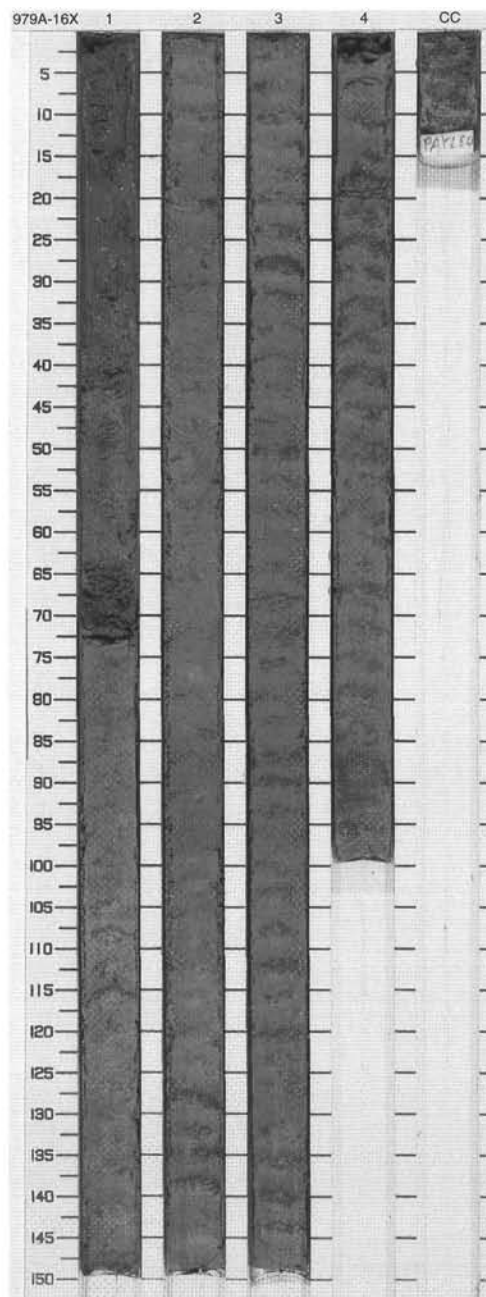
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1					5GY 4/1	NANNOFOSSIL CLAY Major Lithology: The major lithologies are olive gray (5Y 4/1), grayish olive (10Y 4/2) to dark greenish gray (5GY 4/1) NANNOFOSSIL CLAY with slight to moderate bioturbation and scattered grayish black (N2) mineral (pyrite?) grains and shell fragments.
2		2		P			10Y 4/2	
3		3		P			5GY 4/1	Minor Lithologies: A layer of grayish olive (10Y 4/2) to dark greenish gray (5GY 4/1) DIATOM-CALCAREOUS OOZE is present at 74 cm in Section 2 to 25 cm in Section 4. A dark greenish gray (5GY 4/1) NANNOFOSSIL-RICH CLAY layer from 0 cm in Section 1 to 94 cm in Section 2 continues into core 14H. Lamina and thin normal graded beds of dark greenish gray (5GY 4/1) SANDY SILT are present at 23-37 cm in Section 3, 99-103 cm in Section 5, 127-131 cm in Section 4, and 13-14 cm Section 7.
4		4		P			10Y 4/2	
5		5		P			5GY 4/1	General Description: Gas voids are present at 0-30 cm, 67-74 cm and 149-150 cm in Section 2, and at 39-42 cm in Section 3.
6		6		P			5GY 4/1	
7		7		P			10Y 4/2	
8		8		P			5GY 4/1	
9		9		P			5Y 4/1	
10		10		P			5GY 4/1	



SITE 979 HOLE A CORE 16X

CORED 134.5 - 138.3 mbsf

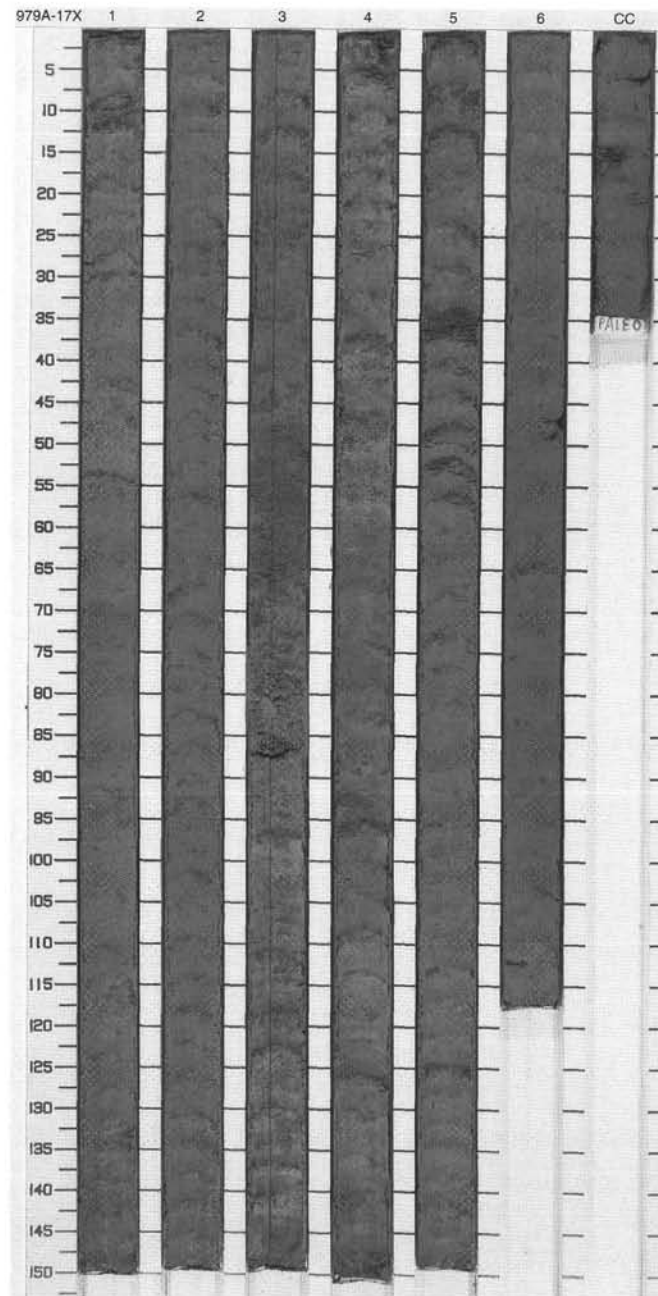
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		✕	○		5GY 4/1	NANNOFOSSIL CLAY and SAND Major Lithologies: The major lithologies are olive gray (5Y 4/1) to dark greenish gray (5GY 4/1; 5GY 5/1) NANNOFOSSIL CLAY with scattered grayish gray (N2) mineral (pyrite?) grains and shell fragments, and dark gray (N3), medium dark gray (N4) to dark greenish gray (5GY 4/1), gravel-bearing SAND with normal grading.
				✕			5Y 4/1	
				P			5GY 5/1	
2				P			5GY 4/1	
				✕			5Y 4/1	
3		2	Pleistocene	✕				
				P				
4		3		✕			5GY 4/1	
				✕				
5		4		P				
						M		



SITE 979 HOLE A CORE 17X

CORED 138.3 - 147.9 mbsf

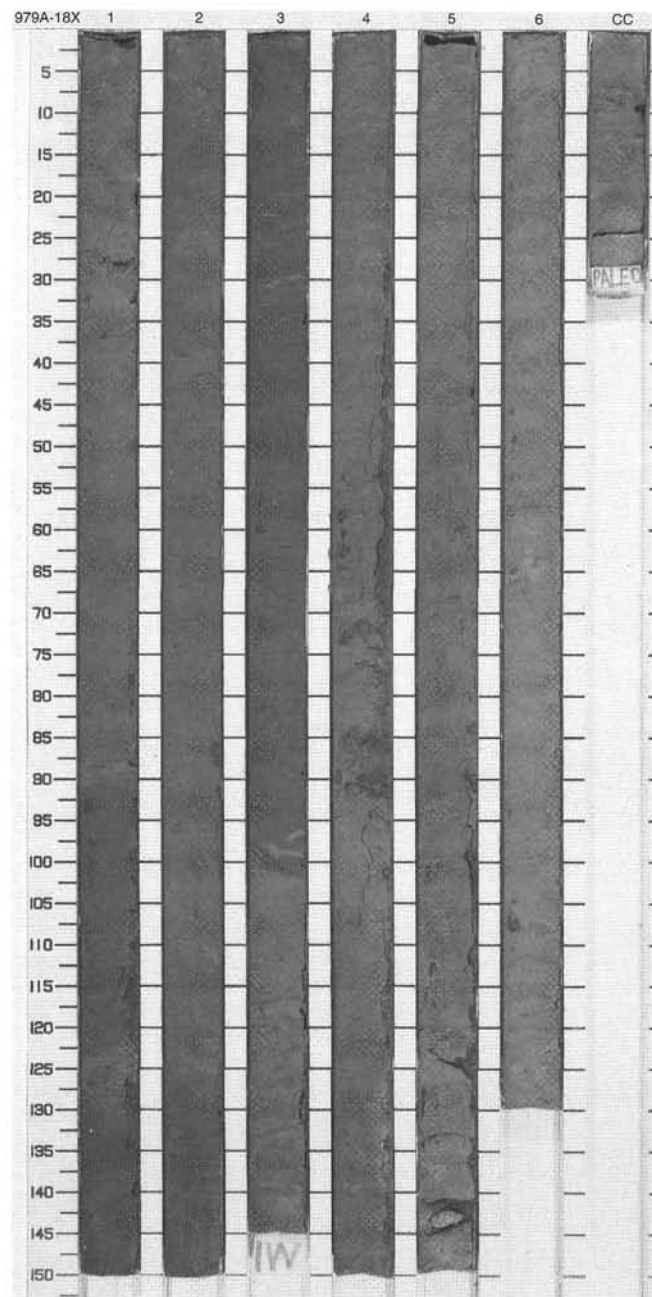
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		P		S	5GY 5/1 To 5Y 5/1	NANNOFOSSIL CLAY and NANNOFOSSIL-RICH CLAY
2		2		P			5Y 4/1 To 5Y 5/1	Major Lithologies: The major lithologies are olive gray (5Y 4/1; 5Y 5/1) to dark greenish gray (5GY 4/1) NANNOFOSSIL CLAY and light olive gray (5Y 5/2) to dark greenish gray (5GY 4/1) NANNOFOSSIL-RICH CLAY with scattered grayish black (N2) mineral (pyrite?) grains and shell fragments.
3		3		P			5Y 4/1 To 5Y 5/1	Minor Lithologies: Grayish olive (10Y 4/2) to light olive gray (5Y 5/2) DIATOM OOZE layers occur from 87 cm in Section 3 to 79 cm in Section 4, from 118-130 cm in Section 4, and from 140 cm in Section 4 to 30 cm in Section 5. Olive gray (5Y 4/1) to medium dark gray (N4) BIOCLASTIC SILTY SAND layers with normal grading are present at 46-68 cm and 72-87 cm in Section 3.
4		4	Pleistocene	P		S	5Y 4/1 To N4	Several silty laminae are present in the interval 65-85 cm, Section 6. Grayish olive (10Y 4/2) to dark greenish gray (5GY 4/1) INTRACLASTIC BRECCIA consisting of clasts of NANNOFOSSIL CLAY and DIATOM OOZE is present from Section 3, 87 cm to Section 5, 30 cm.
5		5		P			5Y 5/2	
6		6		P		S	10Y 4/2	
7		7		P			5GY 4/1	
8		8		P		S	10Y 4/2	
9		9		P		M	5GY 4/1	



SITE 979 HOLE A CORE 18X

CORED 147.9 - 157.5 mbsf

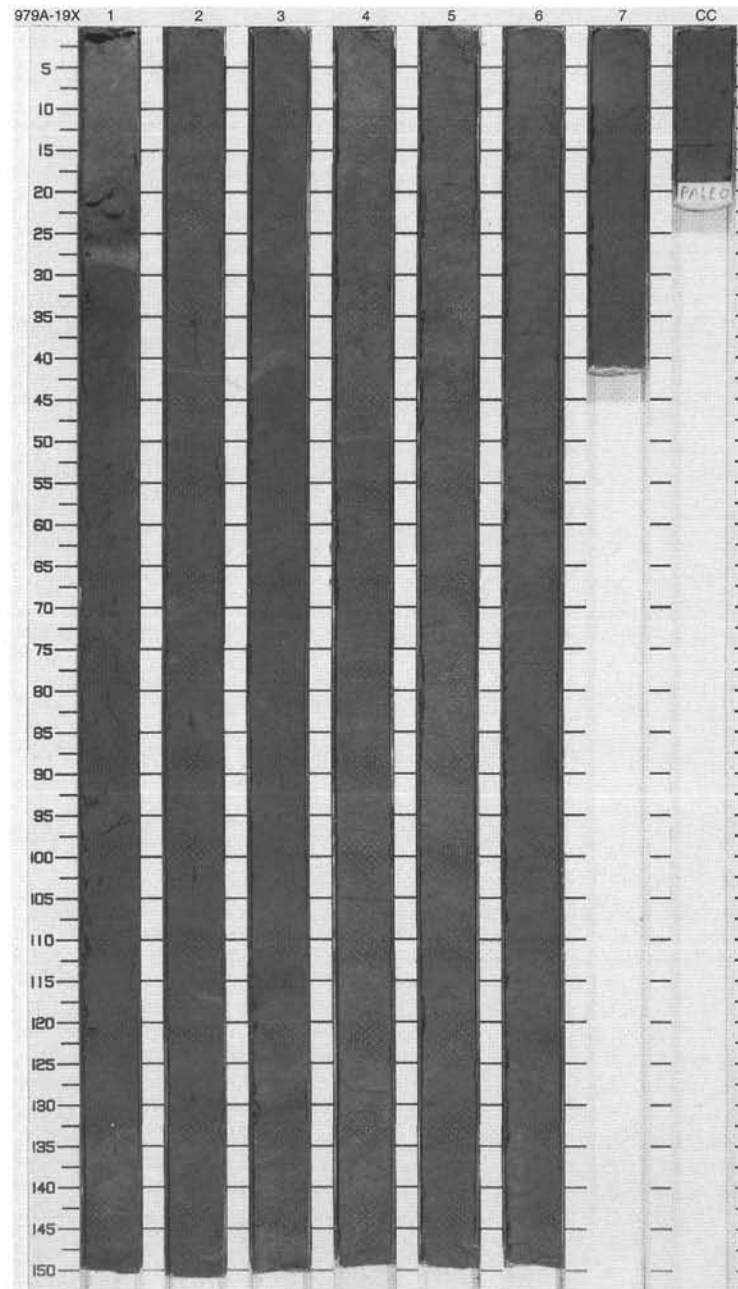
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	Pleistocene	~ ~ ~	S	S	5GY 4/1	NANNOFOSSIL SILTY CLAY and NANNOFOSSIL CLAY
2		~ ~ ~		10Y 4/2			Major Lithologies: The major lithologies are dark greenish gray (5GY 4/1) NANNOFOSSIL SILTY CLAY and olive gray (5Y 5/1) to dark greenish gray (5GY 4/1) NANNOFOSSIL CLAY with local parallel lamination.	
3	~ ~ ~	5GY 4/1		Minor Lithology: Grayish olive (10Y 4/2) DIATOM-CALCAREOUS OOZE layers with scattered shell fragments and parallel lamination are present from 90 cm in Section 1 to 84 cm in Section 2, and from 0–98 cm in Section 3.				
4	~ ~ ~	S		10Y 4/2	General Description: <i>Chondrites</i> and <i>Planolites</i> burrows are clearly present throughout Section 3.			
5	~ ~ ~			S				
6	~ ~ ~	I		5GY 4/1				
7	~ ~ ~							
8	~ ~ ~	S		5Y 5/1				
9	~ ~ ~			5GY 4/1				
	CC				~	M		



SITE 979 HOLE A CORE 19X

CORED 157.5 - 167.1 mbsf

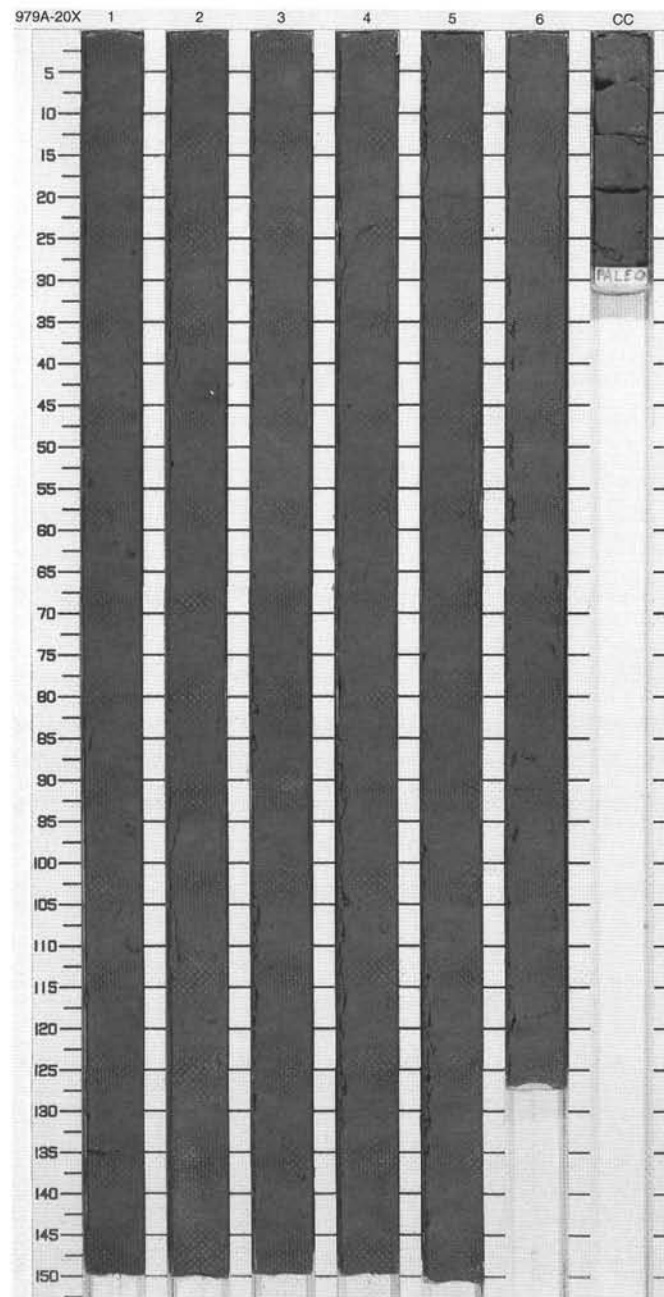
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		}		S	5GY 5/1 To 10Y 4/2	CALCAREOUS SILTY CLAY Major Lithology: The main lithology is CALCAREOUS SILTY CLAY containing up to 30% nannofossils and subordinate micrite (10%), bioclasts (7%), and calcite rhombs (7%). This sediment ranges in color from grayish olive (10Y 4/2) to medium greenish gray (5GY 5/1) and dark greenish gray (5GY 4/1). Burrowing and mottling are both present and bioturbation increases in intensity down the core. <i>Planolites</i> and <i>Zoophycos</i> are the main trace fossils. Shell fragments are present in a few places.
2		2		}		C	10Y 4/2	
3		3		}		C	10Y 4/2 To 5GY 4/1	
4		4	Pleistocene	}				Minor Lithologies: Thin (up to 15 cm) CALCAREOUS SANDY SILTY CLAY beds are present in Section 1, 22-30 cm; Section 3, 114-118 cm and 131-133 cm; Section 4, 50-64 cm, 70-80 cm and 96-104 cm. Some of these are graded and contain foraminifers. Others are wispy laminated and may be burrowed. DIATOMACEOUS CLAY to OOOZE is present in Section 1, 35-40 and 78-80 cm, and Section 2, 60-63 cm.
5		5		}				
6		6		}				
7		7		}		C	10Y 4/2	General Description: Drilling induced "biscuiting" of the core is common throughout.
8		8		}		S		
9		9		}				
		CC		}		M		



SITE 979 HOLE A CORE 20X

CORED 167.1 - 176.8 mbsf

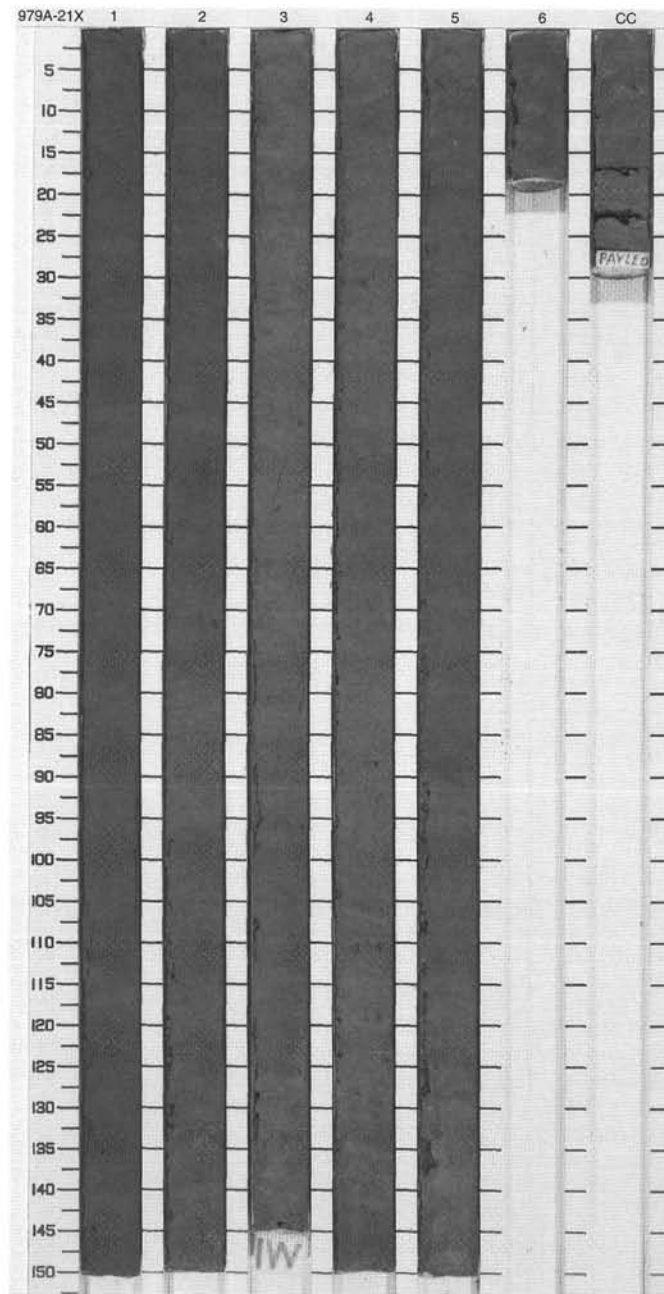
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		} } }		S		NANNOFOSSIL-RICH SILTY CLAY and NANNOFOSSIL CLAY
2		2		} } } } }			10Y 4/2	Major Lithologies: NANNOFOSSIL-RICH SILTY CLAY and NANNOFOSSIL CLAY, containing minor amounts of terrigenous material (quartz, feldspar, rock fragments) and subordinate bioclastic material (foraminifers, bioclasts, fecal pellets and micrite), are the major sediment types. Color for both types is mainly grayish olive (10Y 4/2) but medium greenish gray (5GY 5/1) and dark greenish gray (5GY 4/1) colors are present in Section 3. Shell fragments are present throughout as are many dispersed silt-sized foraminifers.
3		3		} } } } }			10Y 4/2 To 5GY 5/1	
4		4		} } } } }		S		General Description: In many places drilling biscuits have rotated about a horizontal axis such that laminations and horizontal burrows appear inclined.
5		5		} } } } }			10Y 4/2	
6		6		} } } } }				
7		7		} } } } }				
8		8		} } } } }				
9		9		} } } } }		M		



SITE 979 HOLE A CORE 21X

CORED 176.8 - 186.5 mbsf

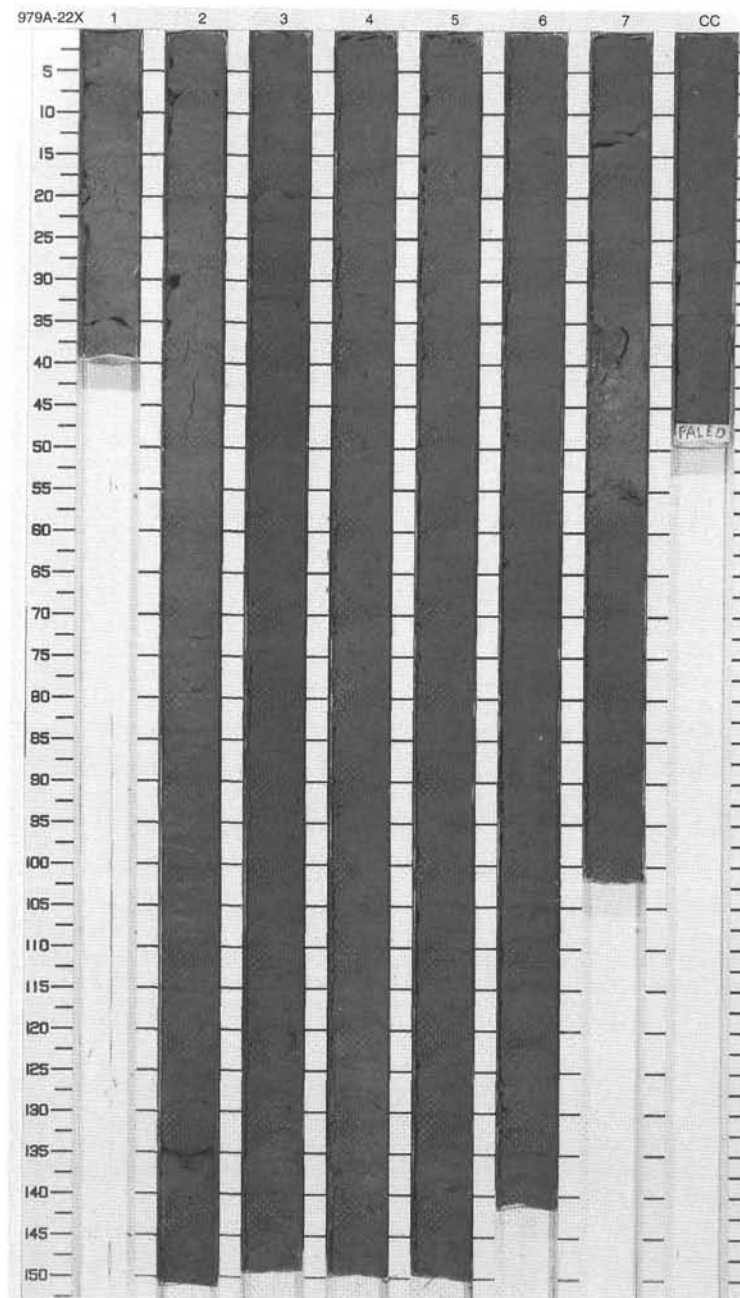
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		}}	W	S	10Y 4/2	<p>NANNOFOSSIL-RICH CLAY and NANNOFOSSIL CLAY</p> <p>Major Lithologies: The main sediment types are NANNOFOSSIL-RICH CLAY and NANNOFOSSIL CLAY which range in color from grayish olive (10Y 4/2) to dark greenish gray (5GY 4/1) and medium olive gray (5Y 5/1). NANNOFOSSIL-RICH CLAY has abundant dispersed foraminifers and common pyrite-filled burrows, whereas NANNOFOSSIL CLAY has relatively fewer foraminifers and rare, dispersed shell fragments.</p>
2		2		}}	W		5GY 4/1	
3				}}	W		10Y 4/2	
4		3		}}	W	I	5Y 5/1 To 5GY 4/1	
5		4		}}	W	S		
6				}}	W		5GY 4/1	
7		5		}}	W			
		6		}}	W			
		CC		}}	W	M		



SITE 979 HOLE A CORE 22X

CORED 186.5 - 196.1 mbsf

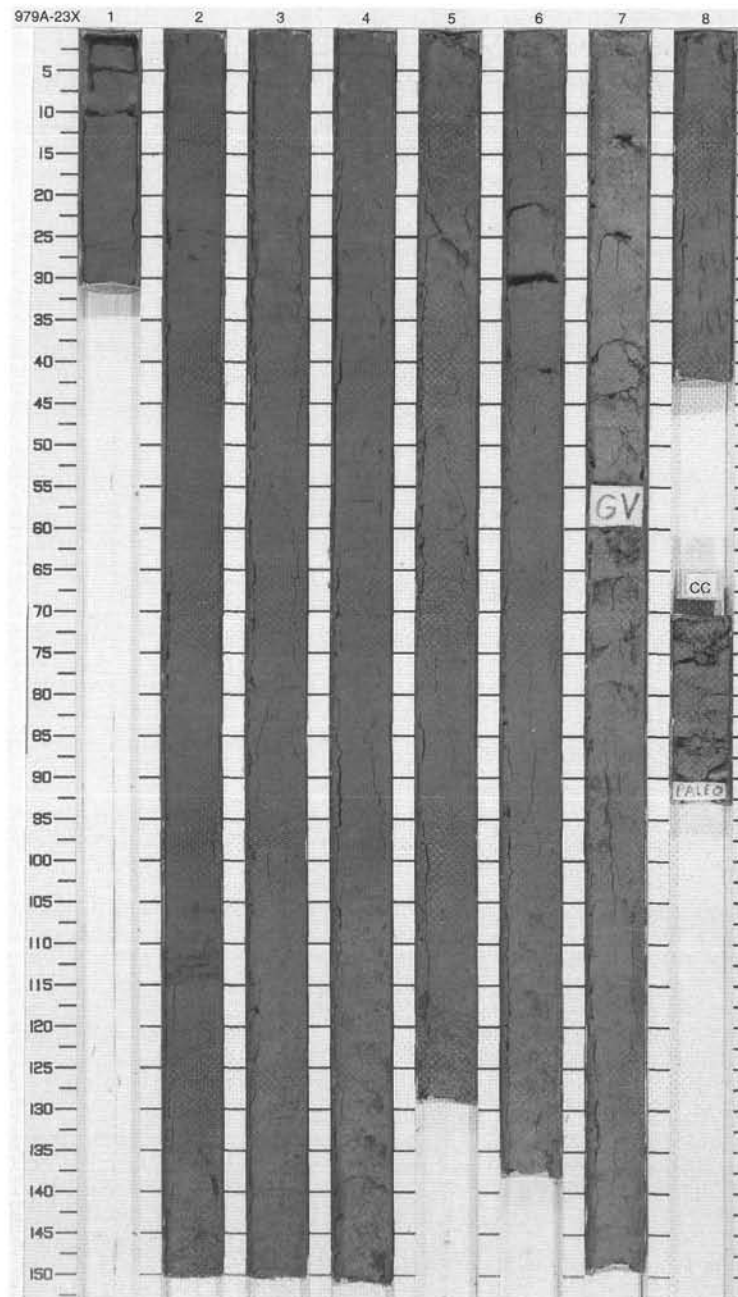
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		(P)				NANNOFOSSIL SILTY CLAY
2		2		X		S	5GY 5/1	<p>Major Lithology: The main sediment type is NANNOFOSSIL SILTY CLAY with rare dispersed shell fragments and foraminifers. Color is medium to dark greenish gray (5GY 5/1 to 5GY 4/1).</p> <p>Minor Lithologies: Grayish olive (10Y 4/2) NANNOFOSSIL CLAY with abundant Chondrites burrows, is present from Section 2, 84 cm to Section 3, 10 cm. Moderate olive brown (5Y 4/4) DIATOM-RICH NANNOFOSSIL SILTY CLAY is present in Section 3 from 10-150 cm.</p>
3		3		X		S	10Y 4/2	
4		4		X			5Y 4/4	
5		5		(P)				
6		6		X				
7		7		X				
8		8		X				
9		9		X				
		CC		(P)		M	5GY 4/1	



SITE 979 HOLE A CORE 23X

CORED 196.1 - 205.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		~	W			CALCAREOUS CLAY and NANNOFOSSIL CLAY
2		2		~ (P)		S	10Y 4/2	Major Lithologies: The main sediment types are CALCAREOUS CLAY and NANNOFOSSIL CLAY. CALCAREOUS CLAY is the darker colored of the two being grayish olive (10Y 4/2) and dark greenish gray (5GY 4/1). NANNOFOSSIL CLAY ranges from medium greenish gray (5GY 5/1) and greenish gray (5GY 6/1) to dusky yellow green (5GY 5/2). CALCAREOUS CLAY contains approximately 25% nannofossils whereas NANNOFOSSIL CLAY contains up to 50% nannofossils. The former are moderately to heavily burrowed, the latter are lightly burrowed. Shell fragments and foraminifers are present.
3		3		~ (P)				
4		4		~ (P)			5GY 4/1	
5		5	Pleistocene	~ (P)				Minor Lithologies: DIATOM-RICH CALCAREOUS SILTY CLAY (10% diatoms, 20% nannofossils, 20% inorganic carbonate) is present in Section 8. NANNOFOSSIL-, FORAMINIFER-RICH CLAY forms the matrix of the sand-rich interval in Section 2, 112-115 cm. The SAND is sharp based with a highly bioturbated top.
6		6		~ (P)			5GY 5/1	
7		7		~ (P)		S	5GY 6/1	General Description: Section 1 remained in core barrel and was placed in liner.
8		8		~ (P)		S	5GY 5/2	
9		CC				M		

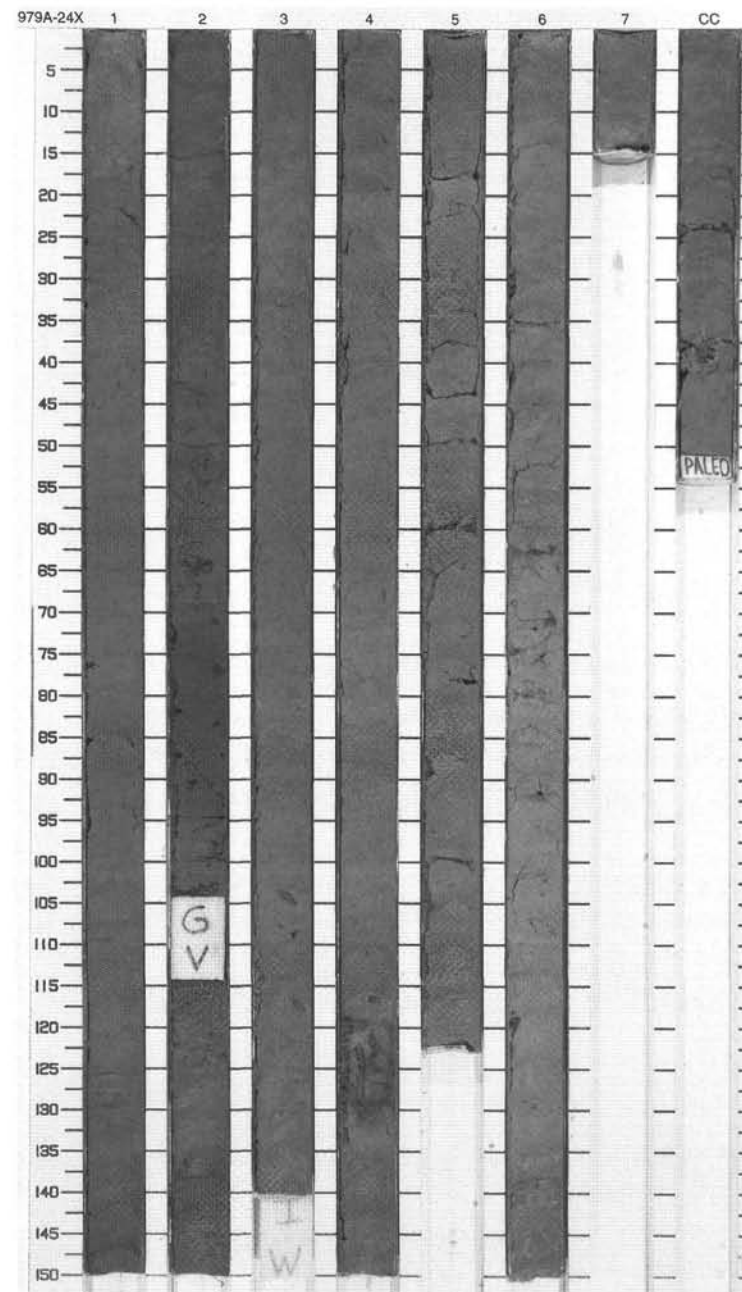


SITE 979

SITE 979 HOLE A CORE 24X

CORED 205.7 - 215.4 mbsf

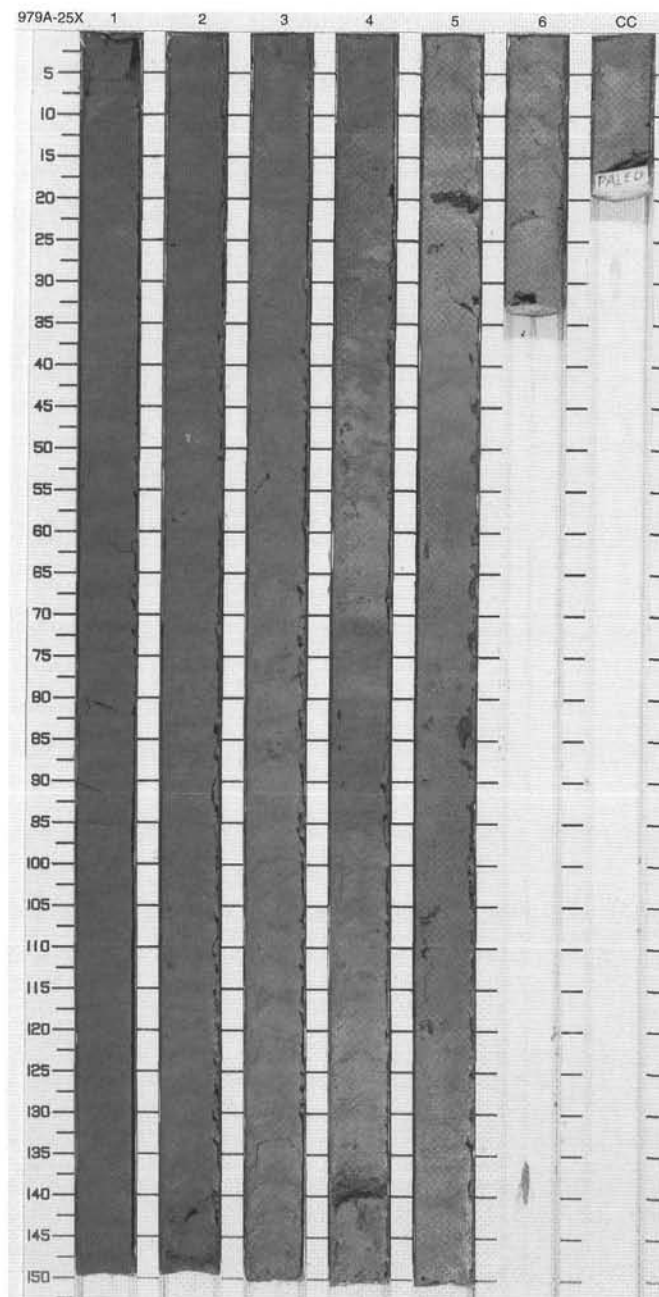
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		}}		S	10Y 4/2	NANNOFOSSIL CLAY Major Lithology: The major lithology is NANNOFOSSIL CLAY. Colors range between grayish olive (10Y 4/2), medium to dark greenish gray (5GY 5/1 to 5GY 4/1), and dusky yellow green (5GY 5/2). The structureless to mottled NANNOFOSSIL CLAY contains rare silt pods and shell fragments.
2		2		}}		S	N3	
3		3		}}		S	10Y 4/2	
4		3		}}		I	5GY 4/1	Minor Lithology: An interval of moderately bioturbated DIATOM CLAYEY SILTY SAND in Sections 1 and 2 overlies dark gray (N3) SILTY CLAY in Section 2, 69–94 cm. Fine- to medium-grained laminated SAND containing abundant shell fragments, glauconite, quartz, rock fragments, and clay is present in Section 4, 118–132 cm. This sandy unit has a sharp lag base of coarse to very coarse SAND.
5		4	Pleistocene	}}		S		
6		5		}}			5GY 5/1	
7		6		}}		S	5GY 5/2	General Description: Branching trace fossils (<i>Zoophycos</i> ?) are present in Section 6, 130–150 cm. Fissility is developed in NANNOFOSSIL CLAY in Section 2, 94–100 cm, Section 5, 58–59 cm, and Section 6, 60–70 cm. There is a gas void in Section 2, 103–113 cm.
8		7		}}			5GY 5/1 To 5GY 5/2	
9		CC		}}		M		



SITE 979 HOLE A CORE 25X

CORED 215.4 - 225.0 mbsf

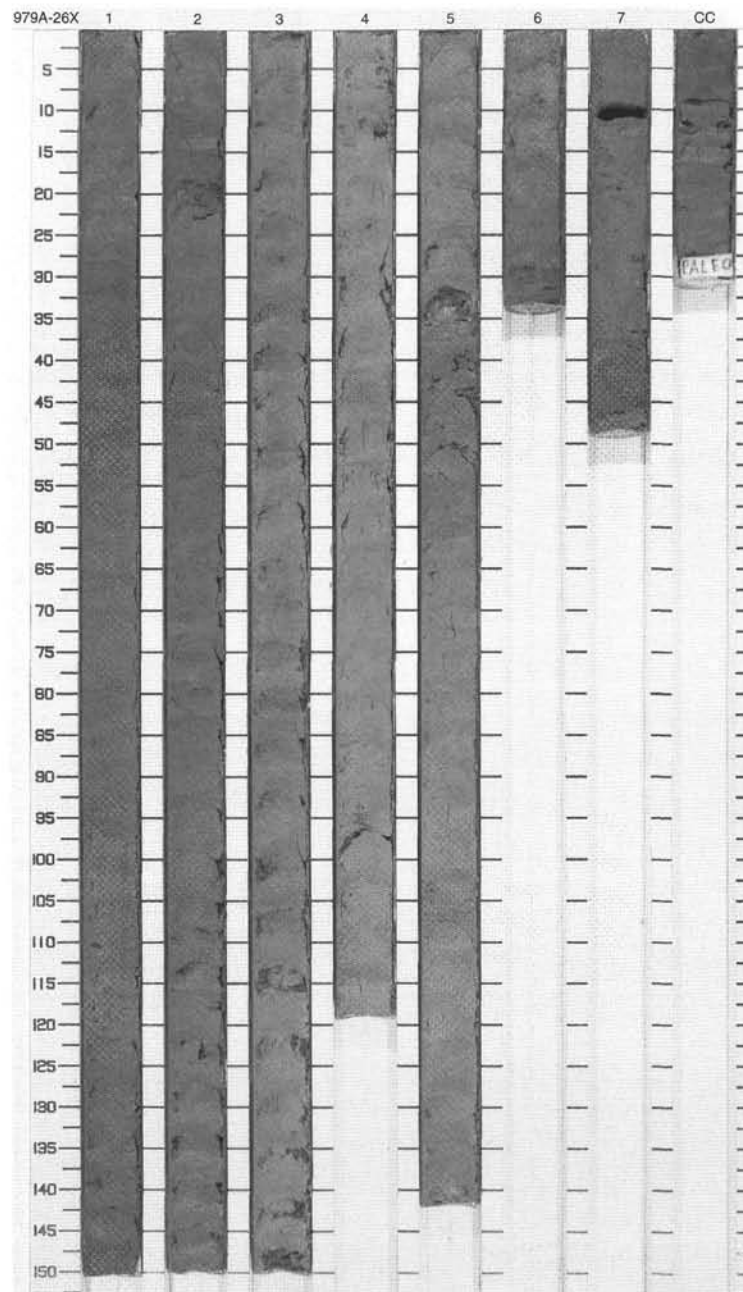
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		P X X P P		S	5Y 4/1	<p>NANNOFOSSIL-RICH SILTY CLAY and NANNOFOSSIL-RICH CLAY</p> <p>Major Lithologies: The major lithologies are olive gray (5Y 4/1) to dark greenish gray (5GY 4/1) NANNOFOSSIL-RICH SILTY CLAY and light olive gray (5Y 6/1), olive gray (5Y 4/1; 5Y 5/1), and medium to dark greenish gray (5GY 4/1; 5GY 5/1) NANNOFOSSIL-RICH CLAY with scattered grayish black (N2) mineral (pyrite?) grains and shell fragments.</p>
2		2		X X			5Y 4/1 To 5GY 4/1	
3		3					5Y 4/1 To 5Y 5/1	
4		3	Pleistocene	P P			5Y 4/1 To 5Y 5/1	
5		4		P X		S	5Y 4/1 To 5Y 6/1	
6				P			5Y 5/1	
7		5		X P		S	5GY 5/1	
8		6				M	5Y 5/1	



SITE 979 HOLE A CORE 26X

CORED 225.0 - 234.6 mbsf

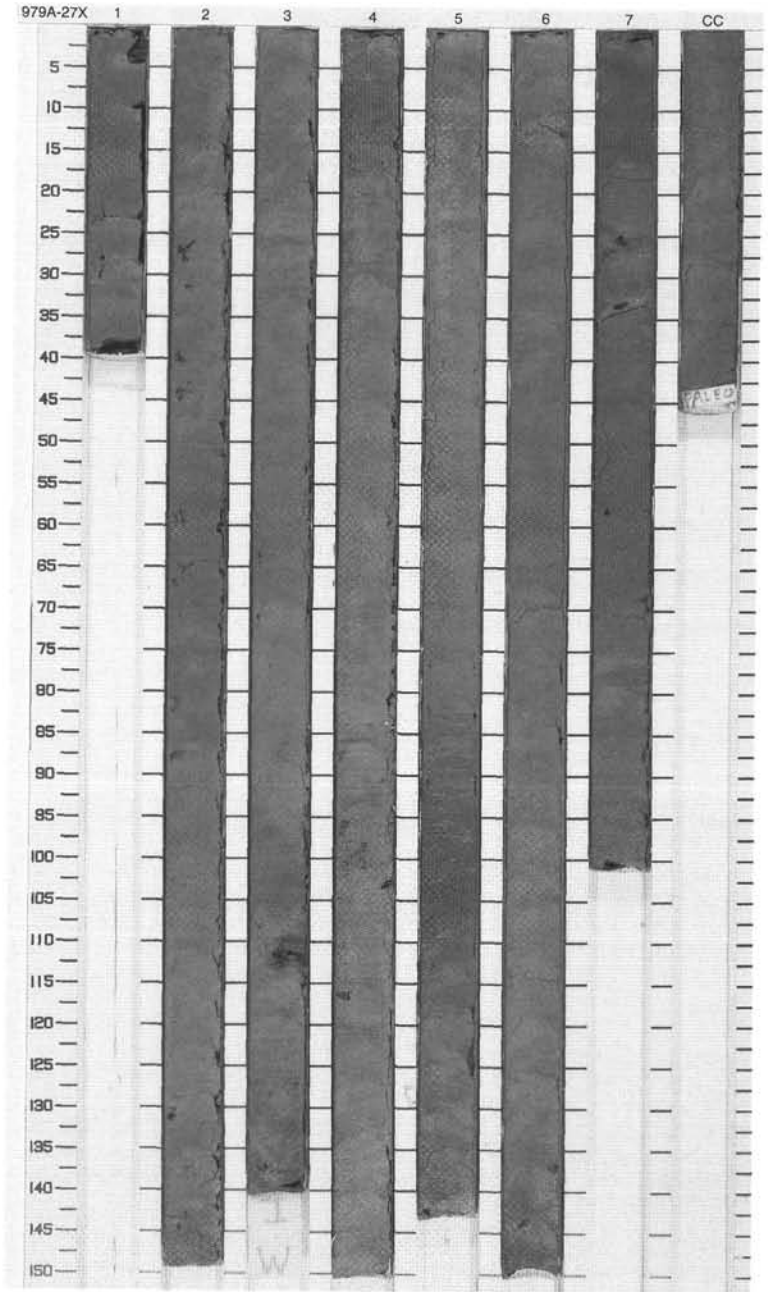
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1				S	5GY 4/1	<p>SILTY CLAY and NANNOFOSSIL-DIATOM OOZE</p> <p>Major Lithologies: The major lithologies are olive gray (5Y 4/1) to dark greenish gray (5Y 4/1) SILTY CLAY with scattered shell fragments and grayish olive (10Y 4/2) NANNOFOSSIL-DIATOM OOZE with local parallel laminations.</p> <p>Minor Lithology: A dark greenish gray (5GY 4/1) SANDY SILTY CLAY layer with parallel to cross lamination is present at 14–22 cm in Section 2.</p>
2		2				S	10Y 4/2	
3		3					5GY 4/1	
4		3					5G 5/1	
5		4					5GY 4/1	
6		5				S	10Y 4/2	
7		6					5GY 4/1	
8		7					5Y 4/1	
		CC				M		



SITE 979 HOLE A CORE 27X

CORED 234.6 - 244.2 mbsf

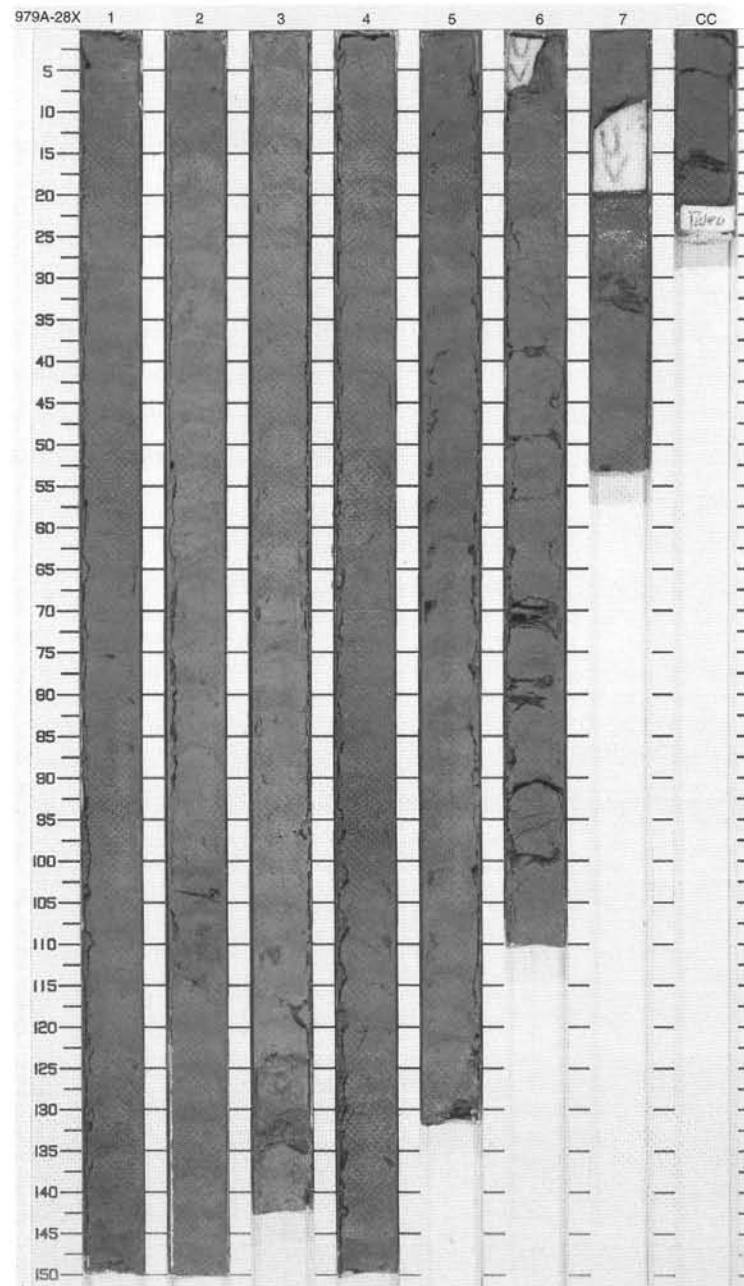
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1					5Y 4/1	CLAY
2		2					5GY 4/1	Major Lithology: The major lithology is olive gray (5Y 4/1) and medium to dark greenish gray (5GY 5/1 to 5GY 4/1) CLAY with scattered shell fragments.
3		3			S		5GY 5/1	Minor Lithology: Grayish olive (10Y 4/2) NANNOFOSSIL-RICH DIATOM-RICH SILTY CLAY layers are present at 82-122 cm in Section 3 and at 0-70 cm in Section 7. Silty to sandy layers are present at 109-113 cm in Section 3.
4		4			S		5GY 4/1 To 5Y 4/1	General Description: Zoophycos burrows are present from 100-110 cm in Section 5.
5		5	Pleistocene				5GY 4/1	
6		6					10Y 4/2	
7		7			S		5GY 4/1	
8		8					10Y 4/2	
9		9					5GY 4/1	
		CC		P				
					M			



SITE 979 HOLE A CORE 28X

CORED 244.2 - 253.7 mbsf

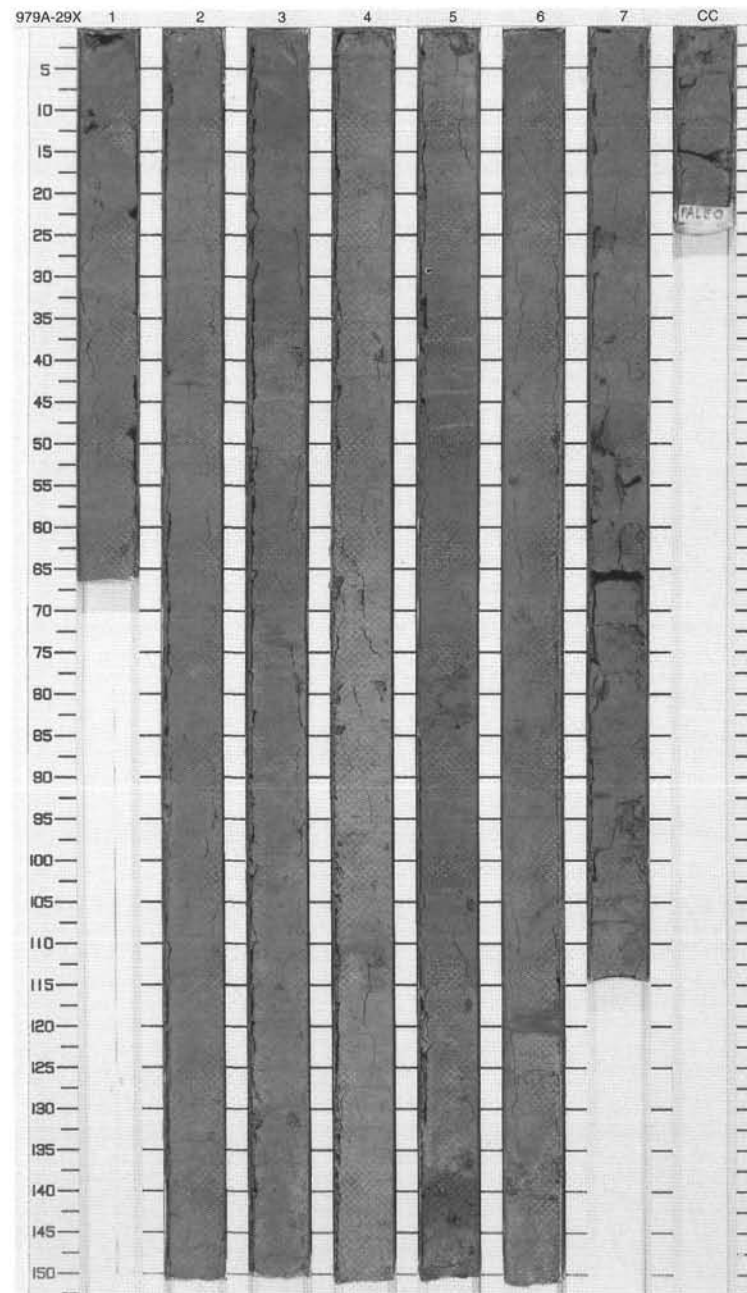
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		Ø				NANNOFOSSIL CLAY
				Ø				
				Ø				
				Ø				
				Ø				
2		2		Ø				
				Ø				
				Ø				
3				Ø				
				Ø				
				Ø				
4		3		Ø				
				Ø				
				Ø				
5		4		Ø				
				Ø				
6				Ø				
				Ø				
7		5		Ø				
				Ø				
8		6		Ø				
				Ø				
9		7		Ø				
				Ø				
		CC						



SITE 979 HOLE A CORE 29X

CORED 253.7 - 263.4 mbsf

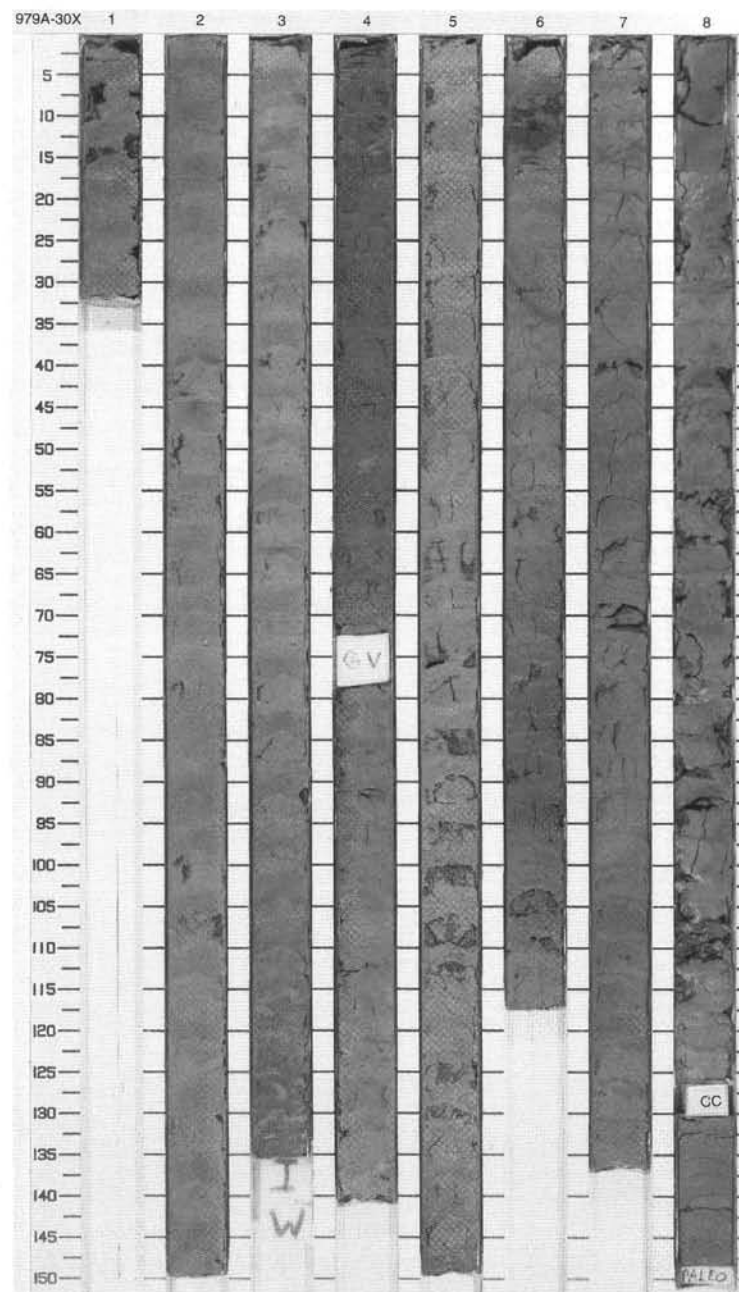
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1		1	P (P)				CALCAREOUS SILTY CLAY
2		2	X X	S			Major Lithology: The major lithology is dark greenish gray (5GY 4/1) CALCAREOUS SILTY CLAY with scattered grayish black (N2) mineral (pyrite?) grains and shell fragments.
3		3	} }} }}			5GY 4/1	Minor Lithology: Dark gray (N3) to dark greenish gray (5GY 4/1), GLAUCONITE-RICH BIOCLASTIC SILT TO SANDY CLAY layers are present from 9–16 cm in Section 2, from 109–116 cm in Section 4, from 77–84 cm and 137–145 cm in Section 5, and from 118–120 cm in Section 6.
4		4	} X				General Description: <i>Zoophycos</i> burrows are present from 10–37 cm and 90–106 cm in Section 5.
5		5	>>> } P >> } } X ... } >> } ... }	S		10Y 4/2	
6		6	⊙ X X P	S			
7		7	==			5GY 4/1	
8		8	}				
9		9	}				
10		CC		M			



SITE 979 HOLE A CORE 30X

CORED 263.4 - 273.1 mbsf

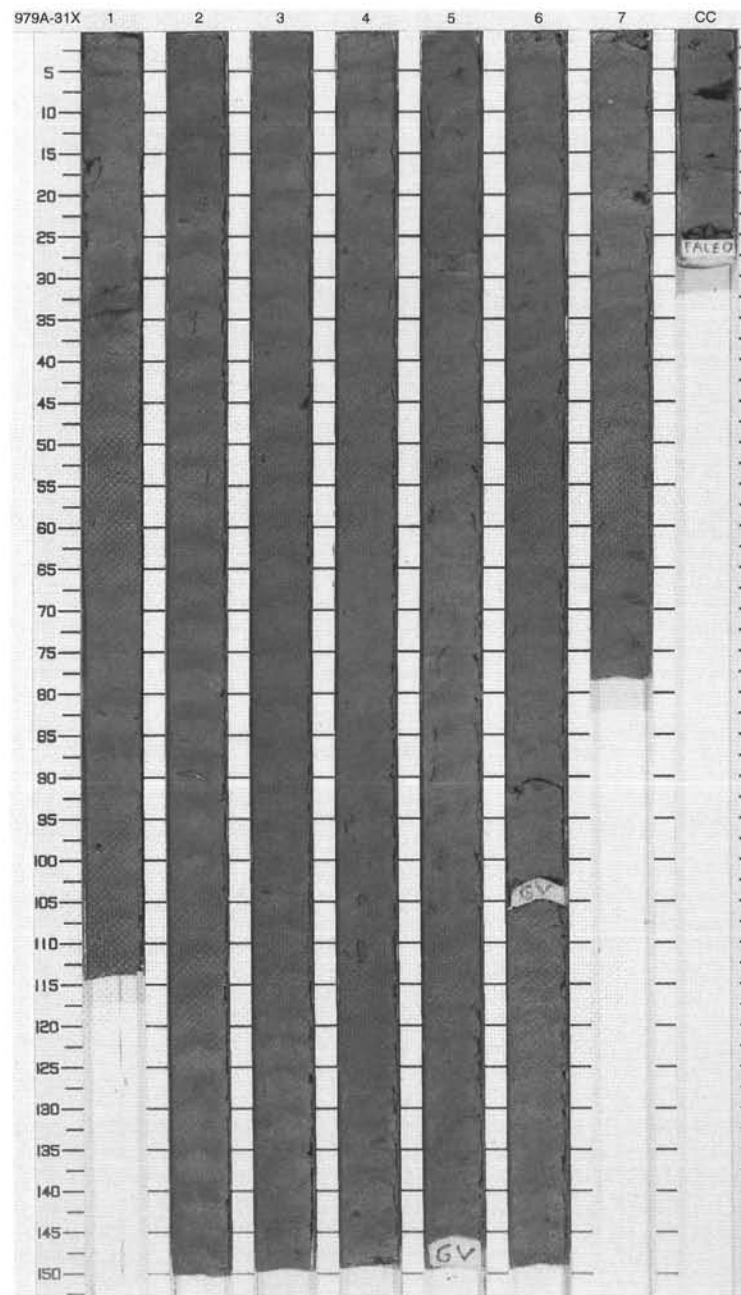
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		≡				NANNOFOSSIL SILTY CLAY
1		2		X X P X P		S	5GY 4/1	Major Lithology: The major lithology is light olive gray (5Y 5/2) to dark greenish gray (5GY 4/1) NANNOFOSSIL SILTY CLAY with scattered grayish black (N2) mineral (pyrite?) grains and shell fragments.
2		3		X X		S I	10Y 4/2	Minor Lithologies: Grayish olive (10Y 4/2) to dark greenish gray (5GY 4/1) DIATOM OOZE layers with scattered glauconite grains are present from 15–60 cm in Section 6 and from 92 cm in Section 3 to 72 cm in Section 4. A medium dark gray (N4), GLAUCONITE-RICH BIOCLASTIC SAND layer with some granule-sized grains in the basal part is present from 9–16 cm in Section 6.
3		4		X X		S	5Y 5/2	General Description: <i>Zoophycos</i> , <i>Chondrites</i> , and <i>Planolites</i> burrows are common in bioturbated intervals.
4		5	Pleistocene	≡ ≡ }				
5		6		} ≡ }				
6		7		} G G		S S	5GY 4/1	
7		8		>> } >> }			10Y 4/2	
8		9		}			5GY 4/1	
9		10		}				
10		OC		}		M		



SITE 979 HOLE A CORE 31X

CORED 273.1 - 282.8 mbsf

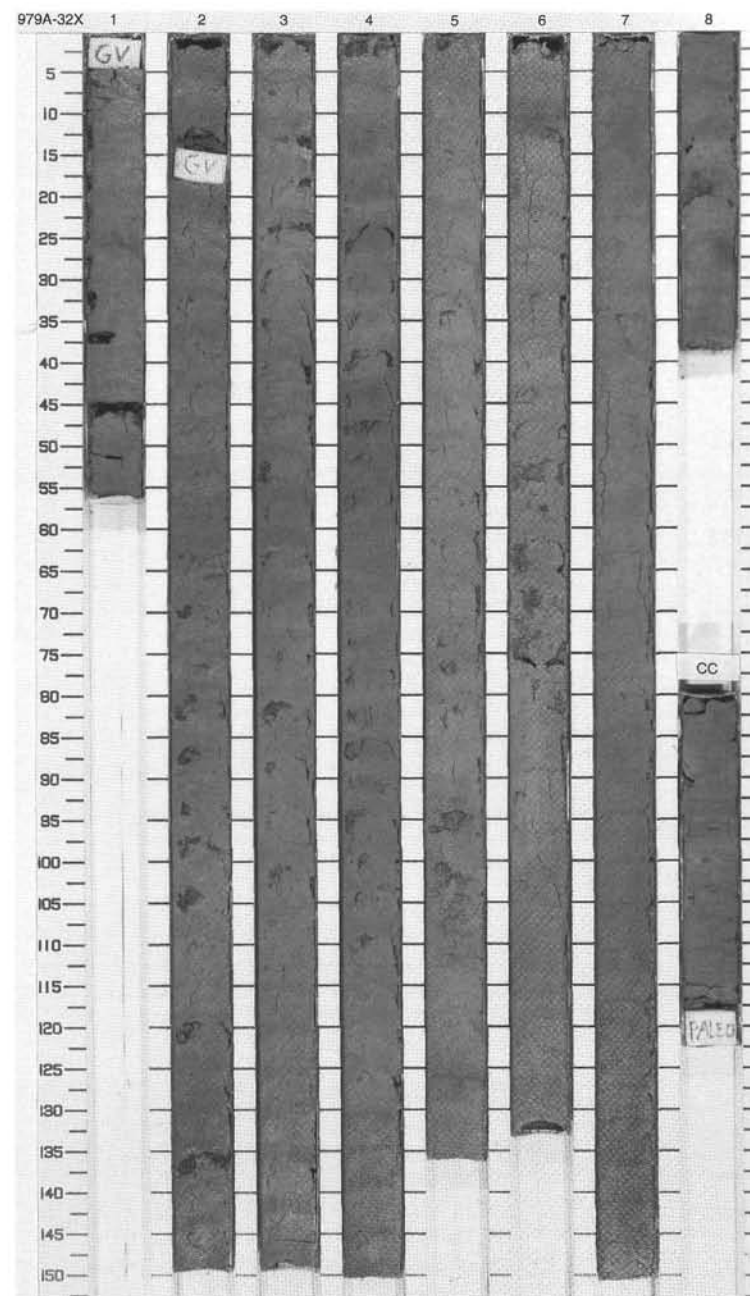
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1		1					NANNOFOSSIL-RICH CLAY
2		2	(P)			5GY 4/1	Major Lithologies: The major lithologies are dark greenish gray (5GY 4/1) NANNOFOSSIL-RICH CLAY with scattered pyrite concretions
3		3	(P)			10Y 4/2	Minor Lithology: Grayish olive (10Y 4/2) NANNOFOSSIL SILTY CLAY is present in Section 3. A dark greenish gray (5GY 4/1) CALCAREOUS SILTY CLAY layer with 30% micrite is present from 85-86 cm in Section 2.
4		4	(P)				General Description: Burrows filled with grayish black (N2) mineral (pyrite?) grains occur at 20-54 cm in Section 2.
5		5	(P)			5GY 4/1	
6		6					
7		7					
8							
9							
		CC			M		



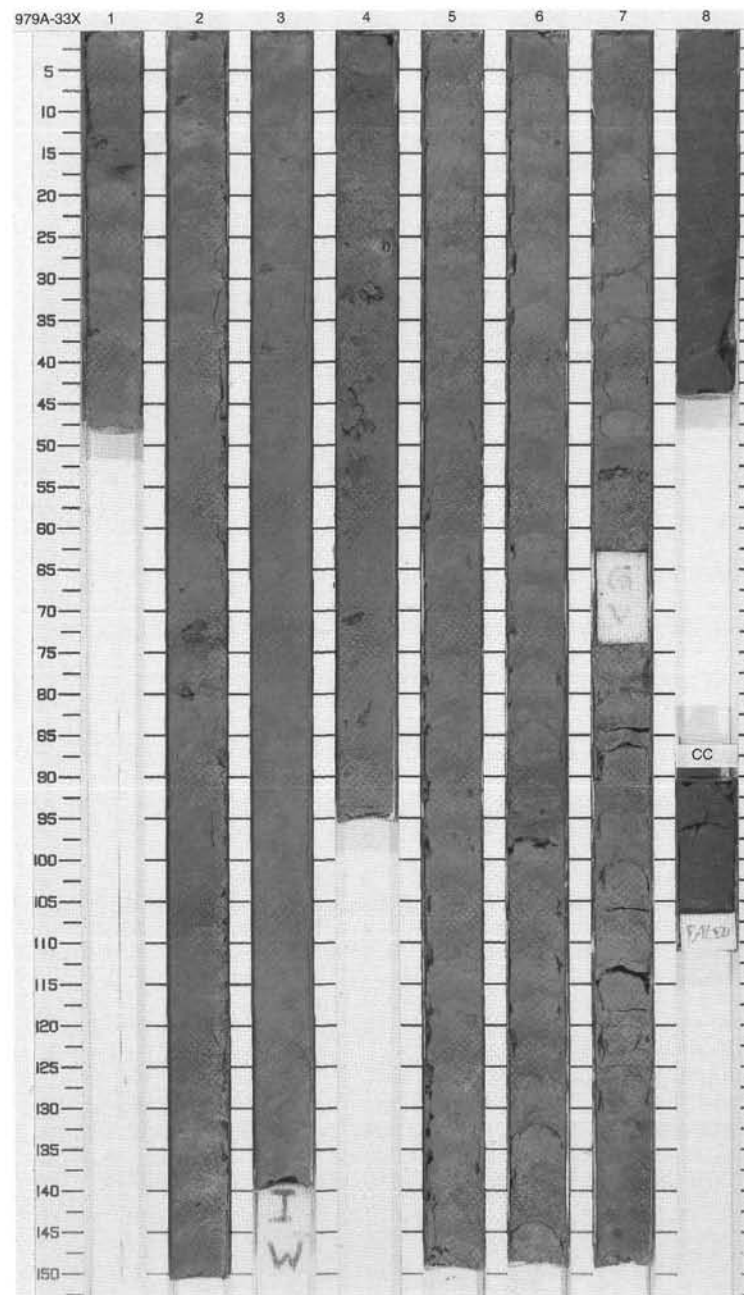
SITE 979 HOLE A CORE 32X

CORED 282.8 - 292.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		P }}				CALCAREOUS CLAY TO CALCAREOUS SILTY CLAY
2		2		}}		S		Major Lithology: The major lithologies are dark greenish gray (5GY 4/1) CALCAREOUS CLAY to CALCAREOUS SILTY CLAY with scattered grayish black (N2) mineral (pyrite?) grains and shell fragments.
3		3						Minor Lithology: Dark greenish gray (5GY 4/1) CALCAREOUS SANDY SILTY CLAY layers with normal grading are present from 104–113 cm and from 123–128 cm in Section 5.
4		4						
5		5	Pleistocene	P P }}		S	5GY 4/1	
6		6		}}		S		
7		7		}}				
8		8		P P				
10		CC				M		



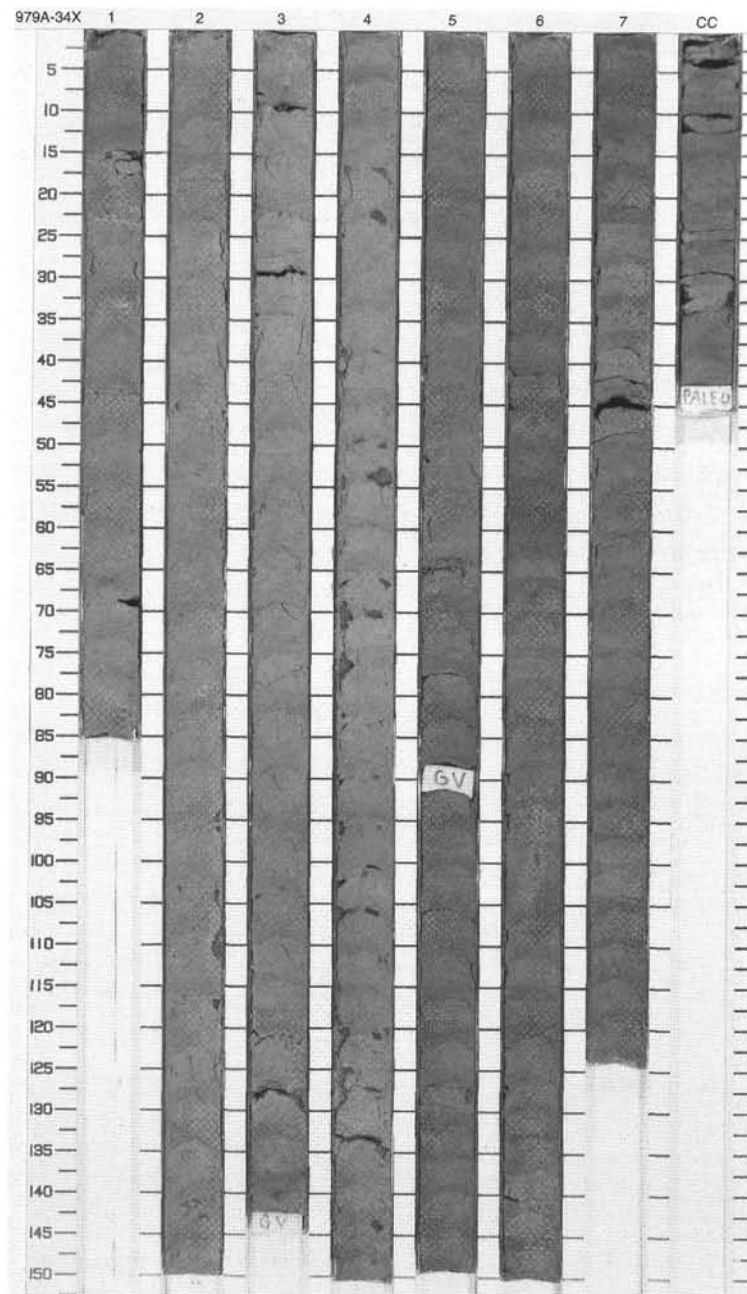
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1		1	⊗ (P)				NANNOFOSSIL CLAY
2		2	⊗				Major Lithology: The main sediment type is medium to dark greenish gray (5GY 5/1 to 5GY 4/1) NANNOFOSSIL CLAY. Rare foraminifers and shell fragments are dispersed throughout.
3		3	⊗ (P)			5GY 5/1	Minor Lithologies: Intensely bioturbated grayish olive (10Y 4/2) NANNOFOSSIL-RICH SILTY CLAY to CALCAREOUS SILTY CLAY is found in Sections 8 and CC. An interval of medium-grained BIOCLASTIC SILTY SAND with boundaries deformed by drilling is present in Section 4, 5-25 cm.
4		4	⊗	W	I S		General Description: The first four sections of sediment are structureless; it is impossible to tell if it is burrowed or not.
5		5	⊗		S	5GY 4/1	
6		6	⊗				
7		7	⊗			5GY 5/1	
8		7	⊗				
9		8	⊗		S M	10Y 4/2	
		CC	⊗				



SITE 979 HOLE A CORE 34X

CORED 302.0 - 311.6 mbsf

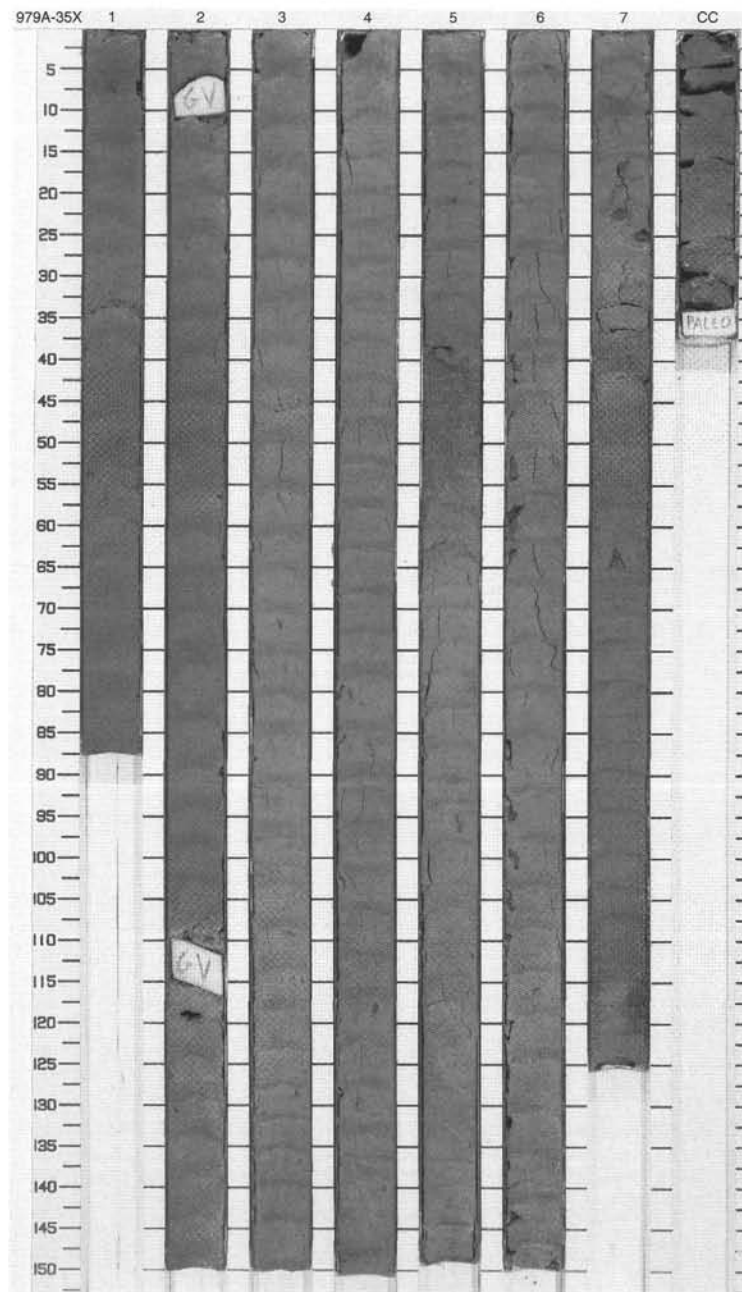
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		}}		S		NANNOFOSSIL CLAY
2		2		}}				Major Lithology: The main sediment type is NANNOFOSSIL CLAY, medium greenish gray (5GY 5/1) to grayish olive (10Y 4/2) in color, with rare dispersed foraminifers and shell fragments.
3		3		}}			5GY 5/1	General Description: There are gas voids in Section 5, 88-92 cm and Section 7, 44-46 cm. Drilling disturbance has obscured bioturbation in much of the core.
4		4		}}		S		
5		5	Pleistocene	}}		S		
6		6		}}			10Y 4/2	
7		7		}}				
8				}}				
9				}}				
		CC				M		



SITE 979 HOLE A CORE 35X

CORED 311.6 - 321.1 mbsf

Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1		1	} X				CALCAREOUS CLAY Major Lithology: The main sediment type is CALCAREOUS CLAY that contains up to 25% nannofossils and 10% bioclasts as the main carbonate components. It varies in color between dark and medium greenish gray (5GY 4/1 and 5GY 5/1) and light olive gray (5Y 5/2). Shell fragments and burrows are present. Minor Lithology: CALCAREOUS SILTY SAND is present in Section 5, 40–53 cm and Section 7, 115–121 cm. It is cohesionless, water-saturated, and medium- to coarse-grained with abundant shell fragments. Silty pods are present in Sections 1, 2, 3, 4, 7, and CC. General Description: Gas voids are present in Section 2, 6–10 cm and 111–117 cm.
2		2	} X				
3		3	} X			5GY 5/1	
4		4	} X		S		
5		5	} X				
6		5	} X		S		
7		6	} X			5GY 5/2	
8		7	} X				
9		7	} X			5GY 4/1	
		CC	} X		M		

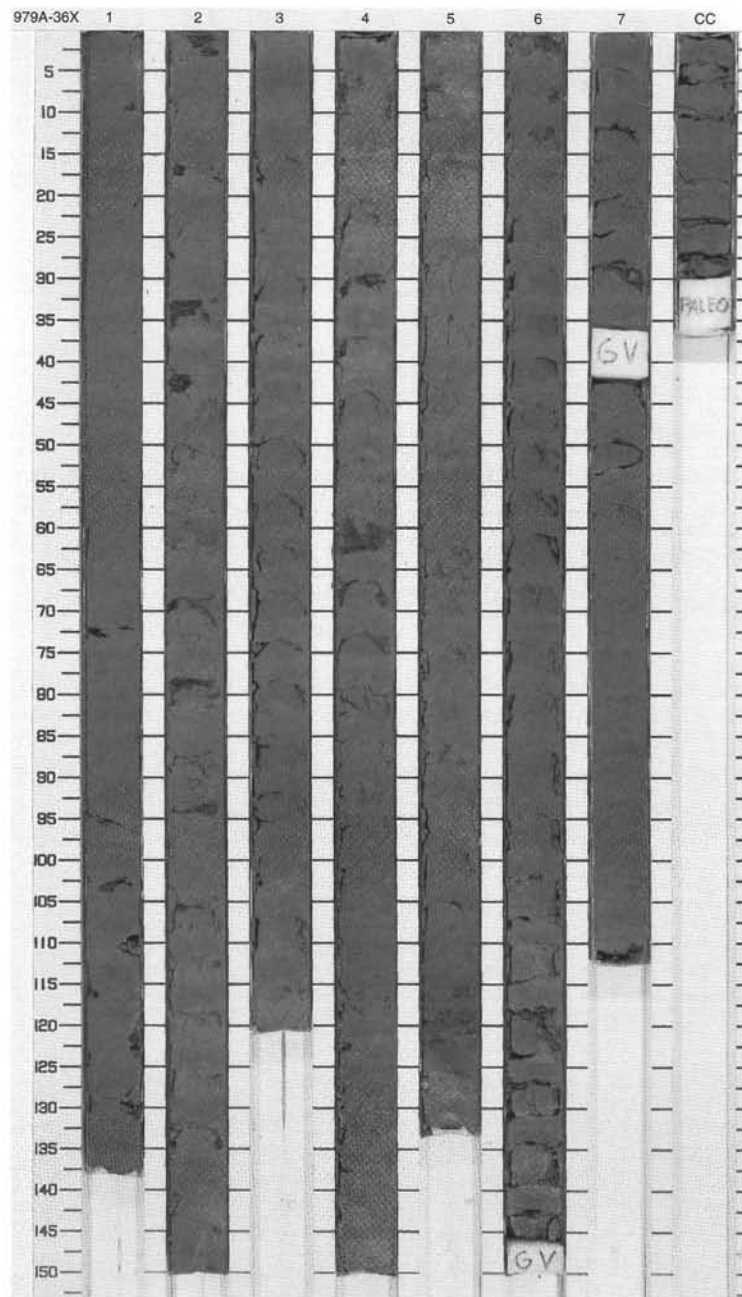


SITE 979

SITE 979 HOLE A CORE 36X

CORED 321.1 - 330.7 mbsf

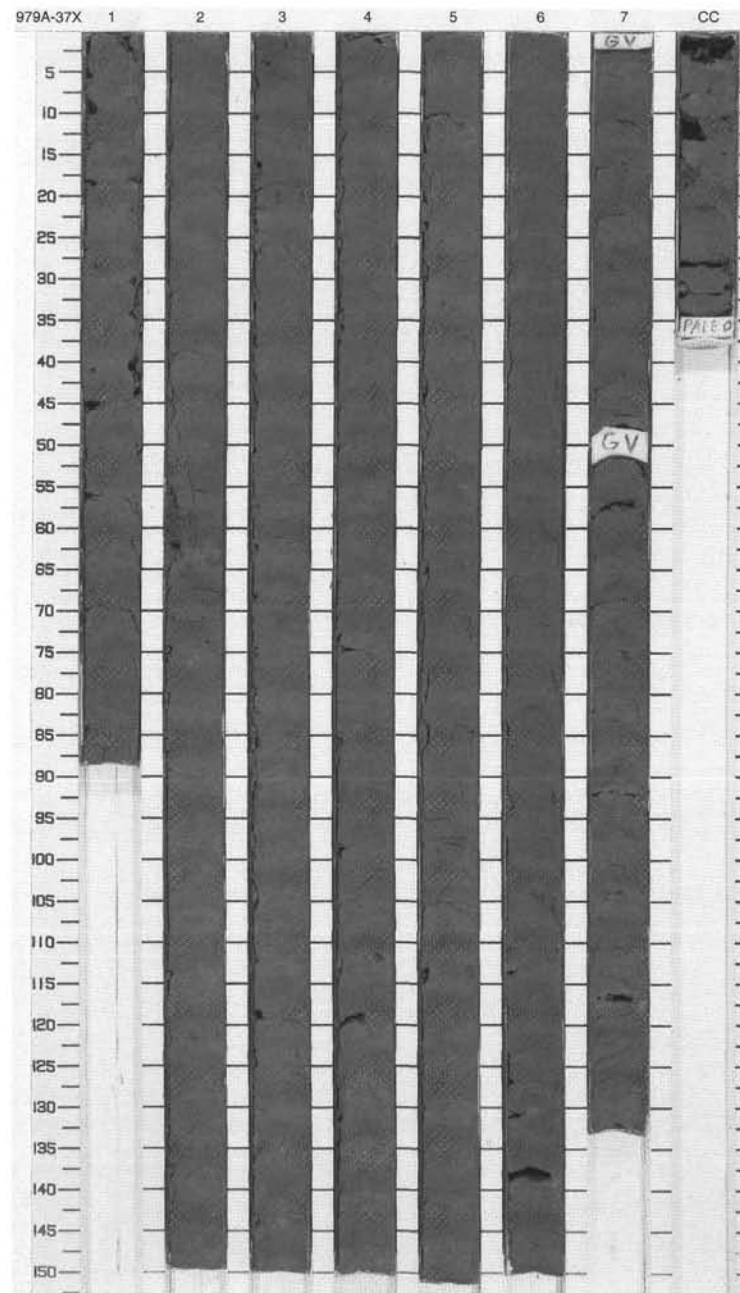
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1		1	~	W		5GY 5/1 To 5GY 4/1	NANNOFOSSIL CLAY Major Lithology: The principal sediment type is NANNOFOSSIL CLAY that ranges in color from dark to medium greenish gray (5GY 4/1 to 5GY 5/1) and grayish olive (10Y 4/2). Rare shell fragments are present at the top of Section 1 and in Section 7. Direct evidence of burrowing is uncommon but the sediment contains flecks and blebs of darker material that suggest that bioturbation is present.
2		2	~	W			
3		3	~	W	S	5GY 5/1	
4		4	~	W	S		
5		4	~			5GY 5/1 To 10Y 4/2	Minor Lithologies: Drilling disrupted sand is present in Section 5 from 118–125 cm. General Description: Where classifiable burrows are present, they are mainly Chondrites. There is a gas void in Section 7, 36–42 cm.
6		5	~				
7		6	~	W		5GY 5/1	
8		7	~	W			
9		7	~	W			
10		CC	~	W	M		



SITE 979 HOLE A CORE 37X

CORED 330.7 - 340.3 mbsf

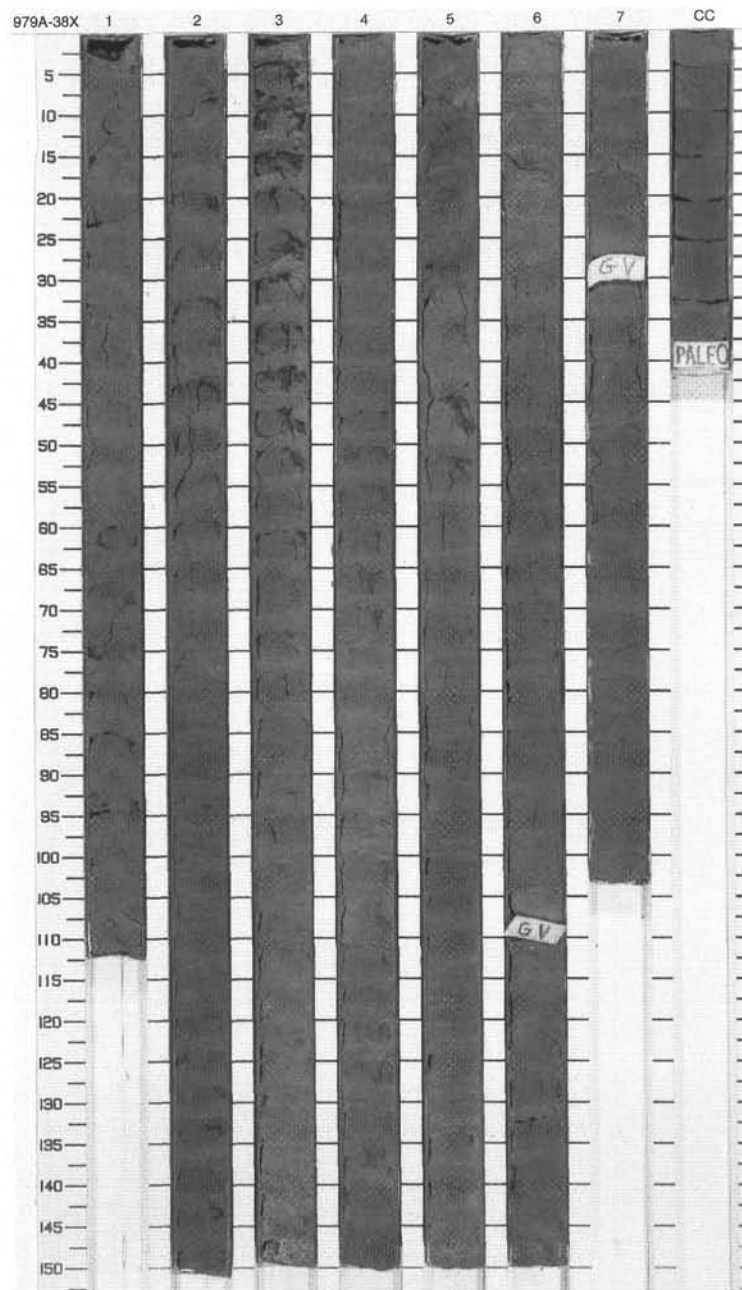
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		✕			5GY 5/1	<p>NANNOFOSSIL CLAY and NANNOFOSSIL SILTY CLAY</p> <p>Major Lithologies: The main sediment types are NANNOFOSSIL CLAY and NANNOFOSSIL SILTY CLAY. The NANNOFOSSIL CLAY is medium greenish gray (5GY 5/1 and 5G 5/1) in color. The NANNOFOSSIL SILTY CLAY is grayish olive (10Y 4/2). Shell fragments are widely dispersed, but are present throughout. In the upper part of the core burrowing is sparse and poorly defined. Burrows become more obvious down core.</p> <p>Minor Lithologies: Thin, drilling-disturbed SAND from 19–22 cm in Section CC is medium- to coarse-grained. Traces of discontinuous SILT and SAND are present in Sections 1–3.</p> <p>General Description: Gas voids are present in Section 7, 0–2 cm and 50–53 cm, and in Section CC, 0–2 cm.</p>
2		2		✕			5GY 5/1 To 5G 5/1	
3		3		✕				
4		4		✕			5GY 5/1	
5		5		✕		S		
6		6		✕				
7		7		✕			10Y 4/2	
8		8		✕				
9		9		✕		S		
10		10		✕		S M		



SITE 979 HOLE A CORE 38X

CORED 340.3 - 349.9 mbsf

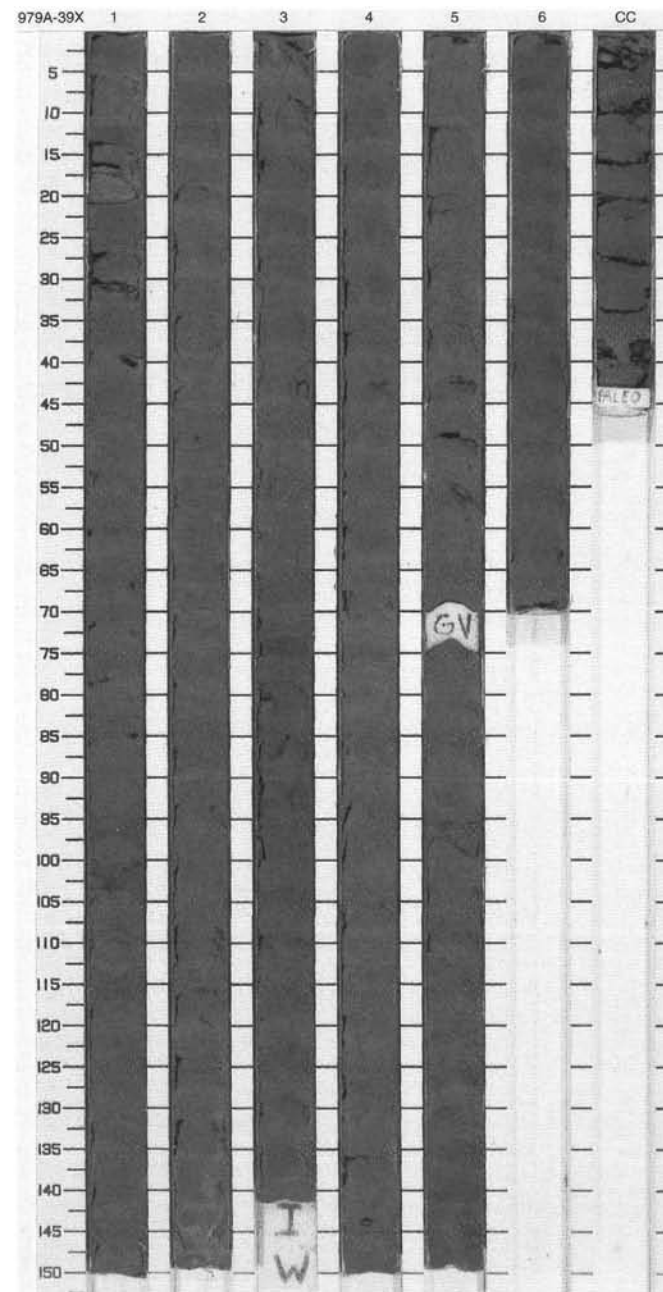
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		}		S	5GY 5/1	<p>NANNOFOSSIL-RICH CLAY</p> <p>Major Lithology: The main sediment type is NANNOFOSSIL-RICH CLAY ranging from medium greenish gray (5GY 5/1) to dark greenish gray (5GY 4/1) and grayish olive (10Y 4/2). Rare shell fragments and laminations attributed to burrowing are present.</p> <p>Minor Lithologies: Rare pockets of dispersed SAND, probably enriched in pyrite, are present in a few places.</p> <p>General Description: In many cases, drilling disturbance has destroyed the character of the sedimentary section.</p>
2		2		}}			5GY 4/1 To 10Y 4/2	
3		3		}}	WWW		10Y 4/2	
4		4		}}	W	S	5GY 5/1 To 10Y 4/2	
5		5	late Pliocene-Pleistocene	}}	W	S	N4	
6		6		}			5GY 5/1 To 5GY 4/1	
7		7		(P)			5GY 5/1	
8		CC		}		M		



SITE 979 HOLE A CORE 39X

CORED 349.9 - 359.5 mbsf

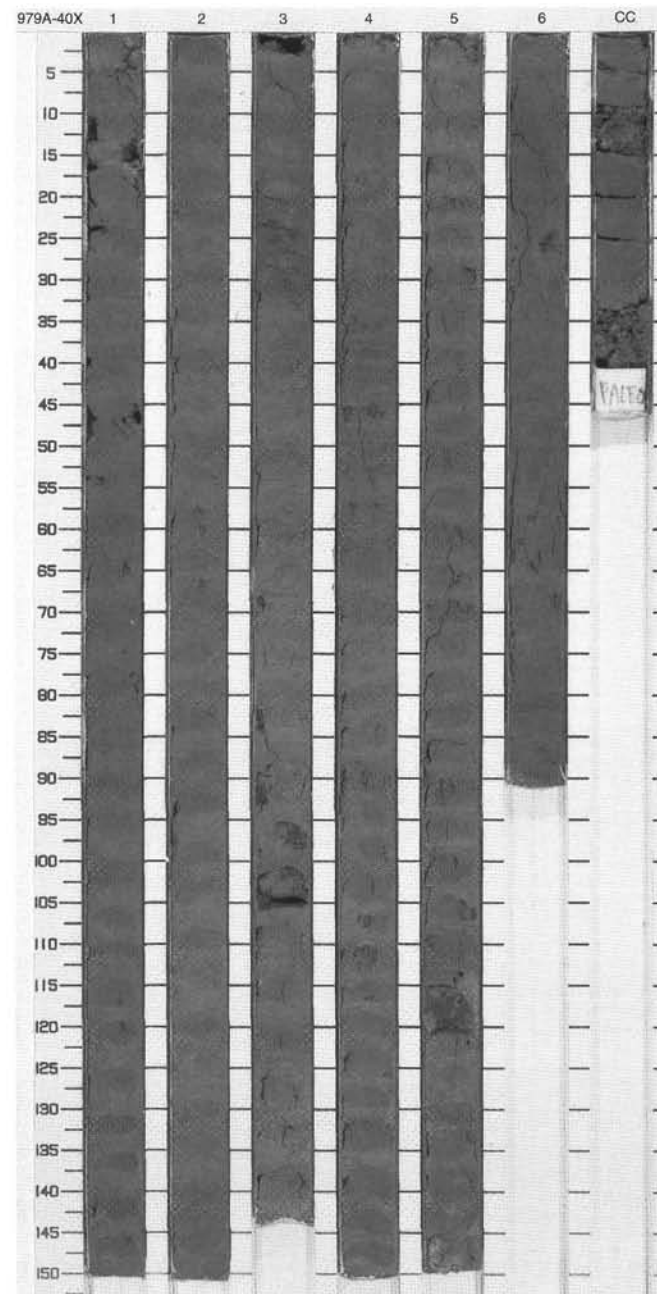
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		}}			5GY 5/1	<p>CALCAREOUS CLAY</p> <p>Major Lithology: The main sediment type is CALCAREOUS CLAY with up to 10% carbonate bioclasts, 10% micrite, and 5% inorganic carbonate. Colors range from dark greenish gray (5GY 4/1) and medium greenish gray (5GY 5/1) to grayish olive (10Y 4/2); the latter color is associated with a nannofossil content of 10% or less. Burrowing is mostly slight and rare, but is moderate to heavy in the greener nannofossil-poor part of Section 2. Shell fragments are present as are dispersed foraminifers.</p> <p>Minor Lithologies: Isolated pockets of SILT and/or SAND are present in Section 1.</p>
2		2		}}			5GY 4/1 To 10Y 4/2	
3		3		}}			5GY 4/1	
4		3		}}		S	5GY 4/1 To 5GY 5/1	
5		4	late Pliocene	}}		I	5GY 4/1	
6		5		}}			5GY 4/1	
7		6		}}		S	10Y 4/2	
8		CC				M		



SITE 979 HOLE A CORE 40X

CORED 359.5 - 369.1 mbsf

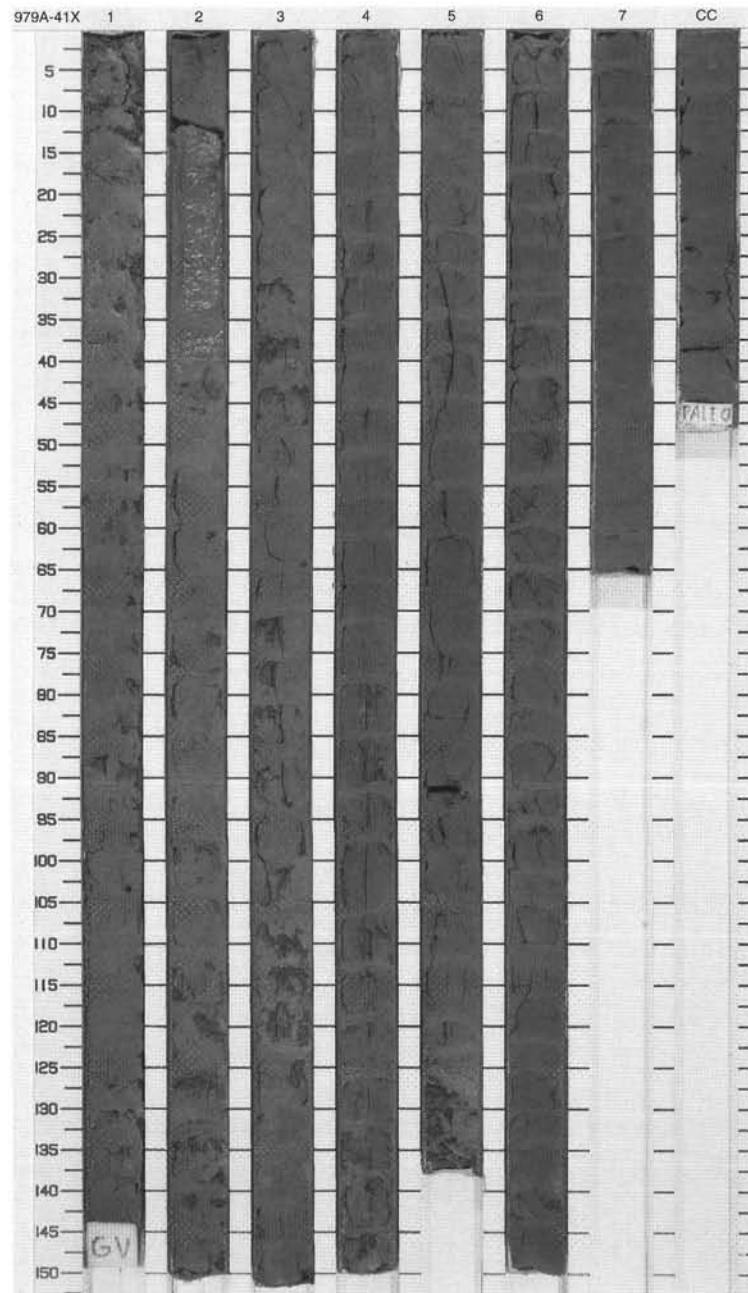
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		(P)		S		<p>NANNOFOSSIL-RICH CLAY and CALCAREOUS CLAY</p> <p>Major Lithologies: The main sediment types are NANNOFOSSIL-RICH CLAY and CALCAREOUS CLAY. The former is medium to dark greenish gray (5GY 5/1 to 5GY 4/1) in color and contains up to 15% nannofossils and a trace of organic debris. The CALCAREOUS CLAY is mainly grayish olive (10Y 4/2), contains up to 25% nannofossils, and is intensely burrowed in the upper part of Section 4. Rare pyritized burrows and rare foraminifers are present. Shell fragments are common where the sediment is most intensely bioturbated.</p> <p>Minor Lithologies: Layers enriched in fine-grained SAND and SILT are present in Section 3, 22-31 cm and 95-144 cm and in Section 5, 110-116 cm. Boundaries and internal structure of these SAND and SILT layers are destroyed by drilling. Rare SILT pockets and blebs are present in Section 3.</p> <p>General Description: Laminations in Section 4 are a result of horizontal burrowing.</p>
2		2		(P)			5GY 4/1	
3		3		(P)			5GY 5/1	
4		4		(P)		S	10Y 4/2	
5		5		(P)			5GY 4/1	
6		6		(P)			5GY 5/1	
7		7		(P)			10Y 4/2	
8		8		(P)			5GY 5/1	
		CC		(P)		M		
				(P)				



SITE 979 HOLE A CORE 41X

CORED 369.1 - 378.7 mbsf

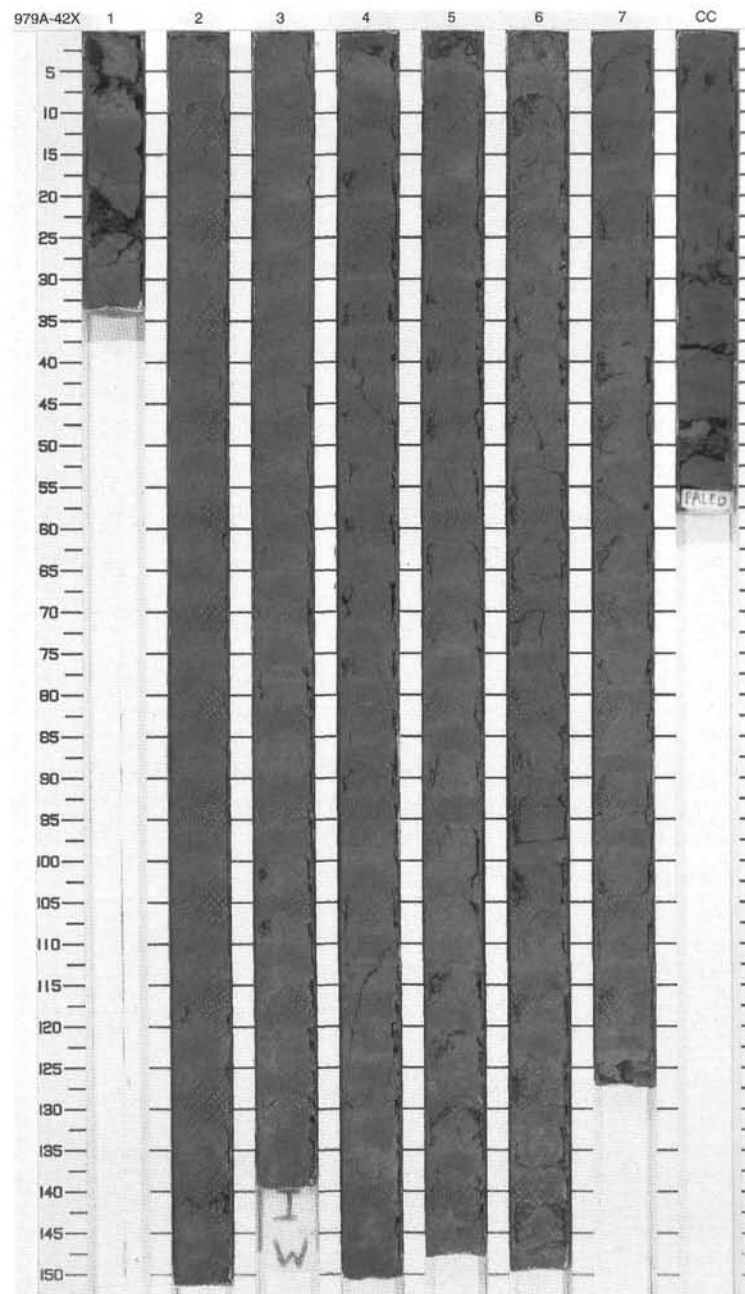
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1			WWWWWW		5GY 5/1	<p>NANNOFOSSIL-RICH CLAY and DIATOM-RICH SILTY CLAY</p> <p>Major Lithologies: The main sediment types are NANNOFOSSIL-RICH CLAY and DIATOM-RICH SILTY CLAY. They range in color from medium to dark greenish gray (5GY 5/1 to 5GY 4/1) for the nannofossil-rich clay to grayish olive (10Y 4/2) for the diatom-rich silty clay. The diatom-rich silty clay is strongly burrowed with horizontal traces in Section 5. Rare foraminifers and very rare shell fragments are dispersed throughout.</p>
2		2			OO	S		
3		3					5GY 4/1	
4		4	late Pliocene			S		<p>Minor Lithologies: Fine- to medium-grained SAND that is water-saturated and cohesionless is present from 0–41 cm in Section 2.</p>
5		5				S	10Y 4/2	<p>General Description: Faint laminations developed in Sections 5, 6, and 7 are the result of burrowing. These laminations are horizontal in Sections 5 and 6 and inclined in Section 7. Inclination of the laminations in Section 7 is probably drilling induced. Drilling biscuits are free-floating in drilling slurry in Sections 1 and 2. Vertical fractures are present in many biscuits. There is a gas void from 143–150 cm in Section 1.</p>
6		6						
7		7					5GY 4/1	
		CC				M	10Y 4/2	



SITE 979 HOLE A CORE 42X

CORED 378.7 - 388.4 mbsf

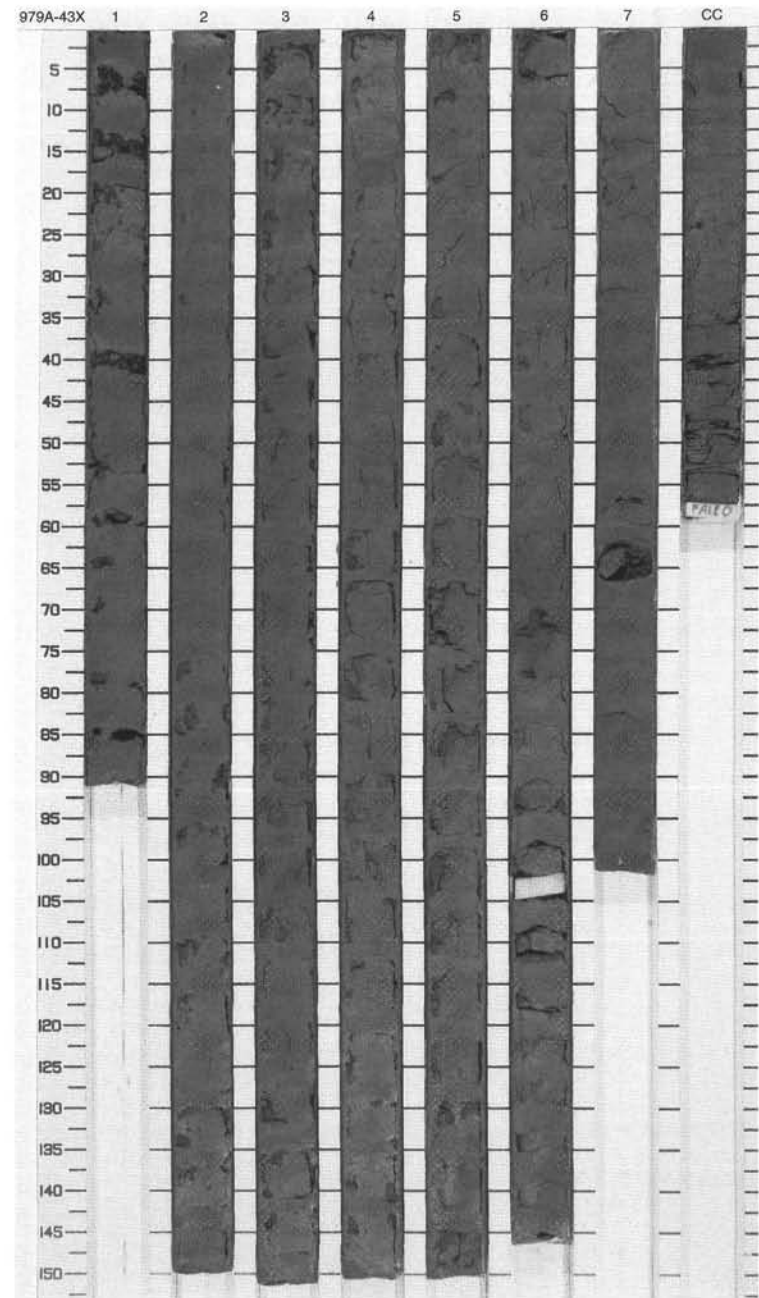
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		}}				<p>CALCAREOUS SILTY CLAY</p> <p>Major Lithology: The major lithology is dark greenish gray (5GY 4/1) CALCAREOUS SILTY CLAY with scattered shell fragments.</p> <p>General Description: Burrows are present throughout the upper part of the core. Faint parallel laminations are present in some intervals.</p>
2		2		}}		S		
3		3		}}				
4		4		}}		I		
5		5	late Pliocene	}}		S	5GY 4/1	
6		6		}}				
7		7		}}				
8		8		}}				
9		9		}}				
		CC		}}		M		



SITE 979 HOLE A CORE 43X

CORED 388.4 - 398.1 mbsf

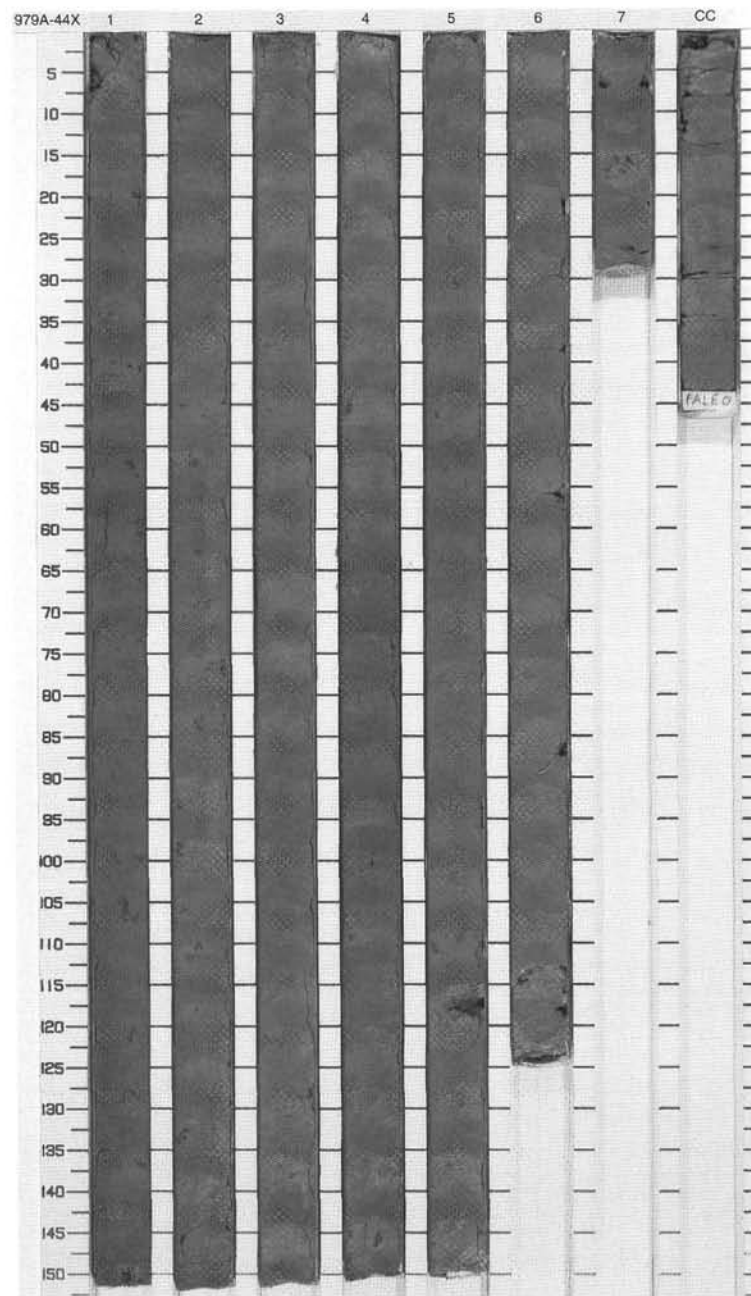
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		P				NANNOFOSSIL CLAY
2		2		}}				Major Lithology: The major lithology is grayish olive (10Y 4/2) to dark greenish gray (5GY 4/1) NANNOFOSSIL CLAY with scattered grayish black (N2) mineral (pyrite?) grains and shell fragments.
3		3		}}				Minor Lithology: Medium dark gray (N4) to dark greenish gray (5GY 4/1) CALCAREOUS SAND layers are present from 54-55 cm in Section 4 and from 64-75 cm in Section 6.
4		4	late Pliocene	}}			5GY 4/1	General Description: <i>Chondrites</i> burrows are present throughout the core.
5		5		}}				
6		6		}}		S		
7		7		}}		S		
8		8		}}				
9		9		}}			10Y 4/2	
		CC		}}		M		



SITE 979 HOLE A CORE 44X

CORED 398.1 - 407.7 mbsf

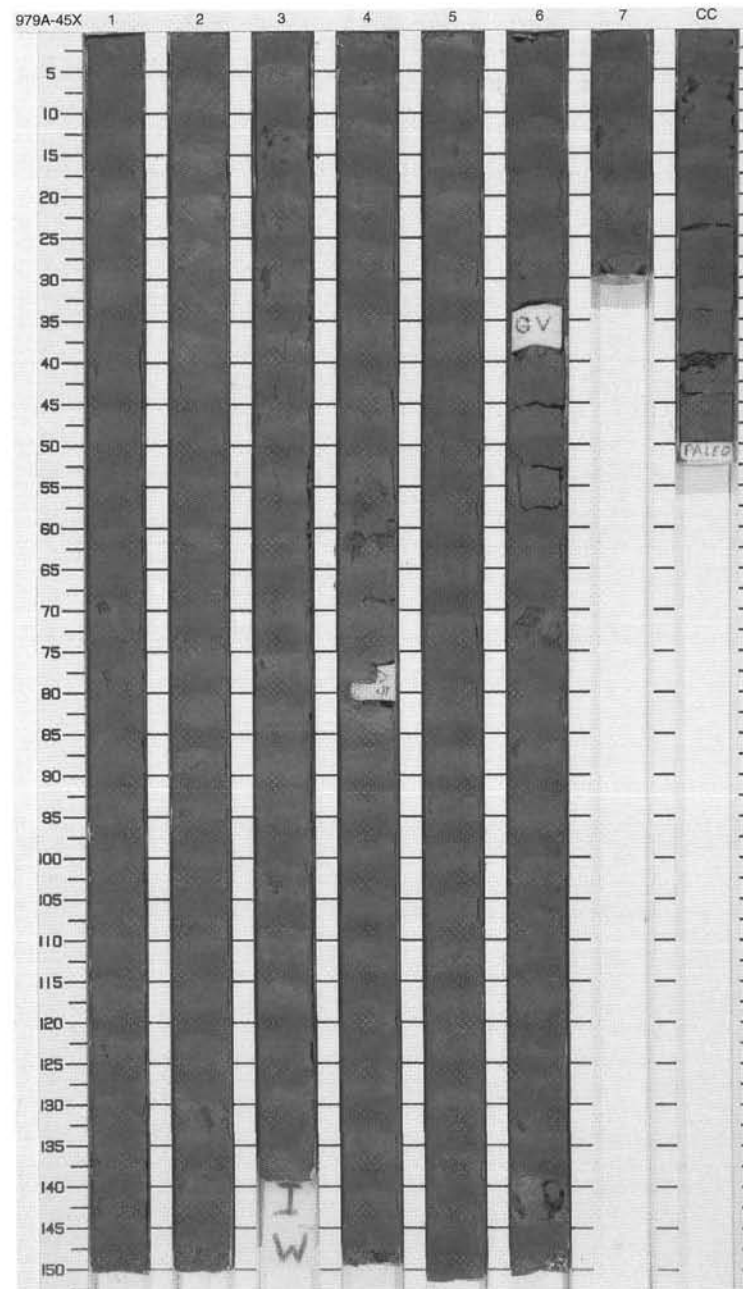
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		~		S	5GY 4/1	NANNOFOSSIL CLAY and NANNOFOSSIL-RICH SILTY CLAY
2		2		P			5Y 4/1	Major Lithologies: The major lithologies are olive gray (5Y 4/1) to dark greenish gray (5GY 4/1; 5GY 5/1) NANNOFOSSIL CLAY and olive gray (5Y 4/1; 5Y 5/1) NANNOFOSSIL-RICH SILTY CLAY with scattered grayish black (N2) mineral (pyrite?) grains.
3		3		~			5GY 5/1	
4		4		P			5Y 5/1	
5		5		P			5Y 4/1 To 5Y 5/1	
6		6		P			5Y 5/1 To 5Y 4/1	
7		7		~		S	5Y 5/1	
8		8		~		M		
9		9		~				
		CC		~				



SITE 979 HOLE A CORE 45X

CORED 407.7 - 417.3 mbsf

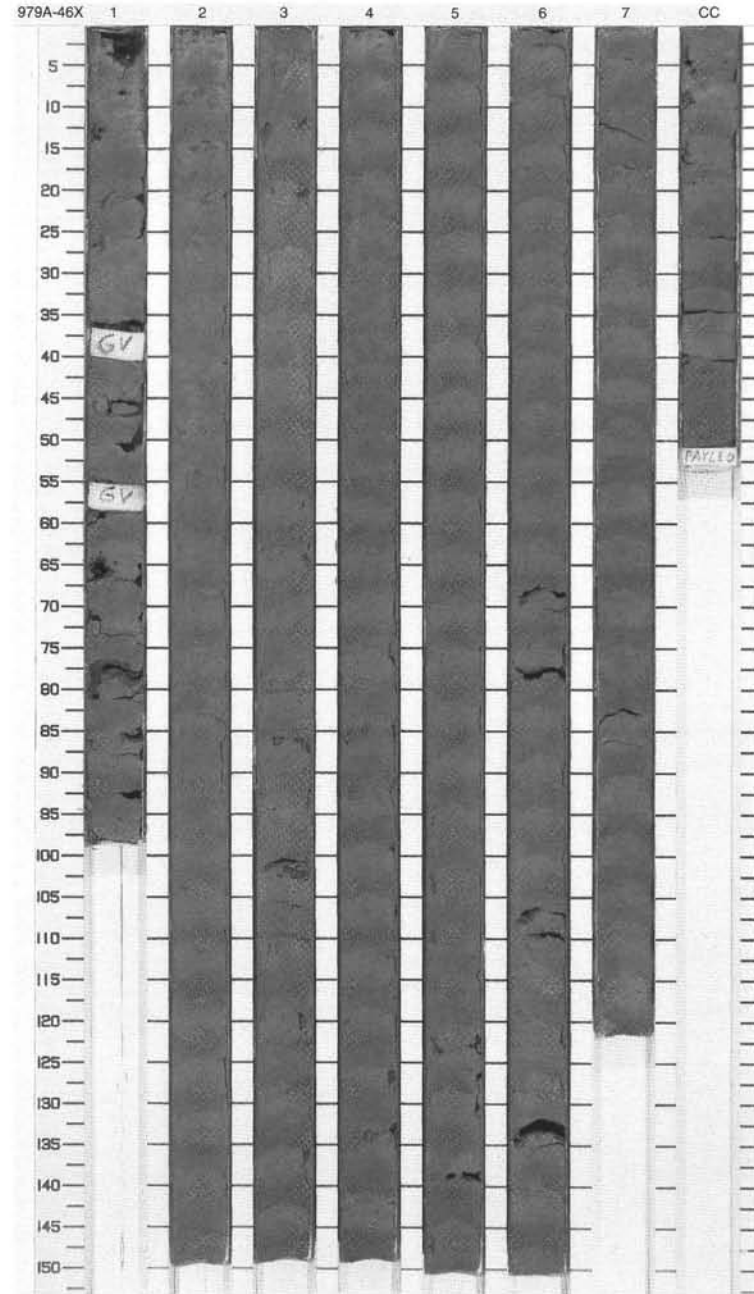
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1		1			S S		NANNOFOSSIL CLAY
2		2				5Y 4/1	Major Lithology: The major lithology is olive gray (5Y 4/1) to dark greenish gray (5GY 4/1) NANNOFOSSIL CLAY with local parallel lamination.
3		3					General Description: <i>Chondrites</i> and <i>Planolites</i> burrows occur throughout the core. Bedding within the laminated intervals is steeply dipping.
4		4	late Pliocene			5GY 4/1	
5		5				5Y 4/1	
6		6				5GY 4/1	
7		7				5Y 4/1	
8		CC			M		



SITE 979 HOLE A CORE 46X

CORED 417.3 - 427.0 mbsf

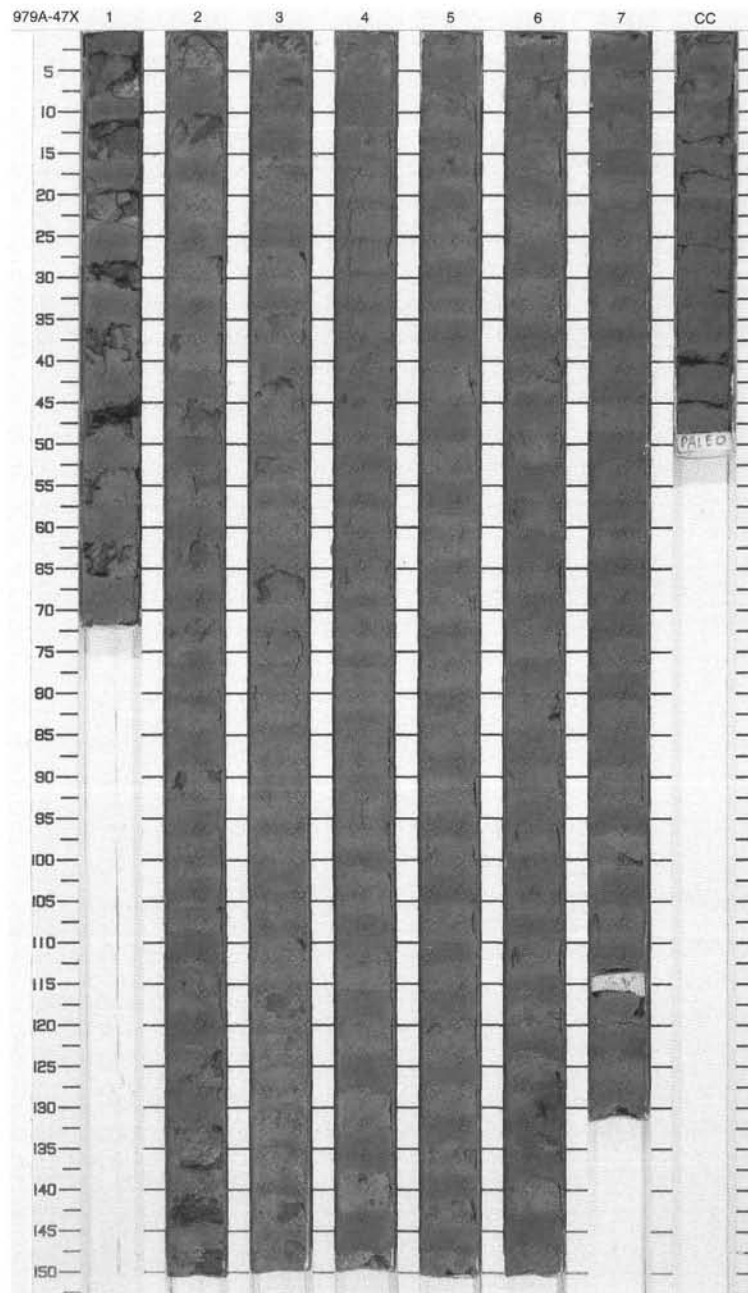
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1					5GY 4/1	<p>CALCAREOUS SILTY CLAY</p> <p>Major Lithology: The major lithology is olive gray (5Y 4/1) to dark greenish gray (5GY 4/1) CALCAREOUS SILTY CLAY with scattered grayish black (N2) mineral (pyrite?) grains and shell fragments.</p> <p>Minor Lithologies: Foraminifer-rich layers are present at 90 cm and from 94–96 cm in Section 3.</p>
2		2					5Y 4/1 To 5GY 4/1	
3		3						
4		4	late Pliocene				5GY 4/1	
5		5						
6		6				S	5Y 4/1	
7		7					5GY 4/1	
8								
9						S	5Y 4/1	
10		CC				M		



SITE 979 HOLE A CORE 47X

CORED 427.0 - 436.6 mbsf

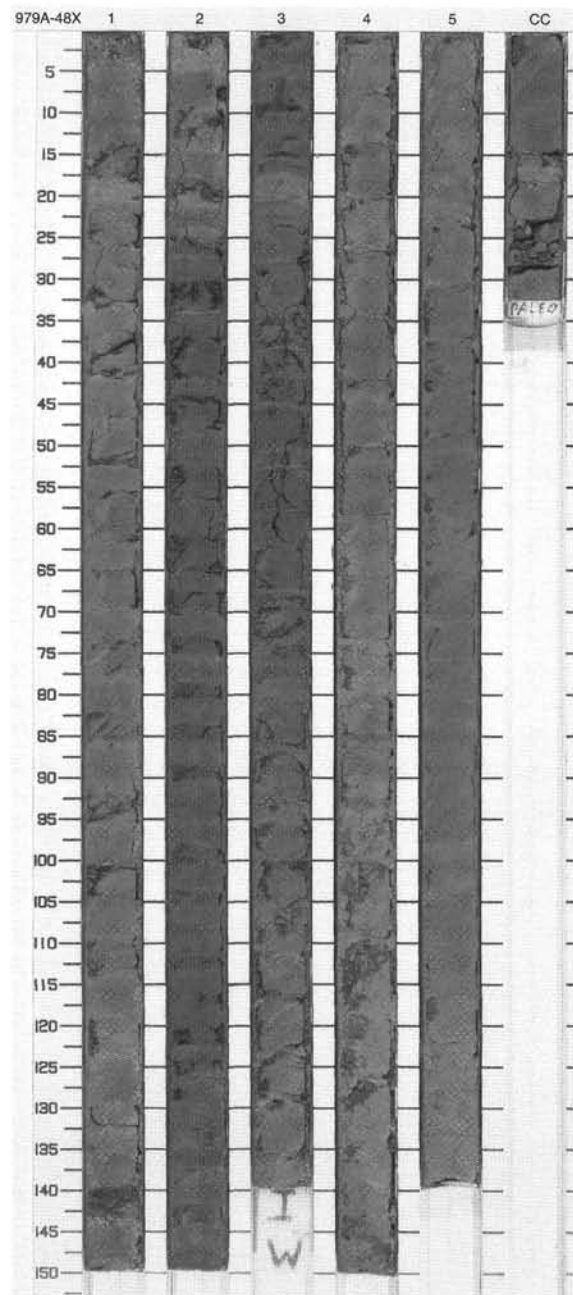
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1					5Y 4/1	NANNOFOSSIL CLAY
2		2					5Y 4/1 To 5GY 4/1	Major Lithology: The major lithology is very stiff olive gray (5Y 4/1) to dark greenish gray (5GY 4/1) NANNOFOSSIL CLAY with scattered shell fragments.
3		3						Minor Lithology: A dark gray (N3) GLAUCONITE-RICH CALCAREOUS SILTY SAND layer is present from 129-131 cm in Section 6.
4		4						
5		5	late Pliocene				5GY 4/1	
6		6						
7		7						
8		8						
9		9						
10		10						



SITE 979 HOLE A CORE 48X

CORED 436.6 - 446.2 mbsf

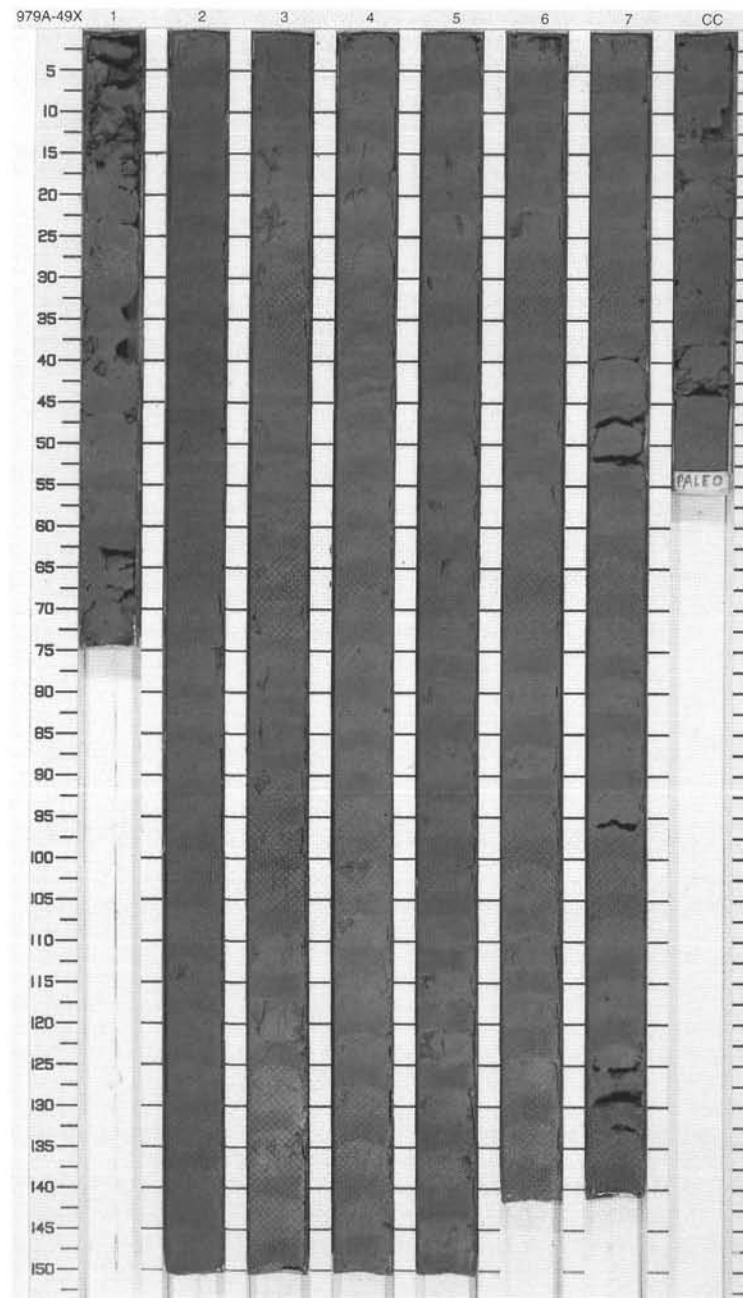
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		} } }		S	5GY 4/1	CALCAREOUS CLAY and NANNOFOSSIL-RICH CLAY Major Lithologies: The major lithologies are olive gray (5Y 3/2; 5Y 4/1) CALCAREOUS CLAY and dark greenish gray (5GY 4/1) NANNOFOSSIL-RICH CLAY with scattered grayish black (N2) mineral (pyrite?) grains and shell fragments.
2		2				S		
3		3	late Pliocene	} } }		I	5Y 3/2	
4		4		}} >>> }} >>> }} >>>			5GY 4/1	
5		5		}} >>> }} >>>		S	5Y 3/2	
6		6		}} >>>			5GY 4/1	
7		7		}} >>>				
		CC				M		



SITE 979 HOLE A CORE 49X

CORED 446.2 - 455.8 mbsf

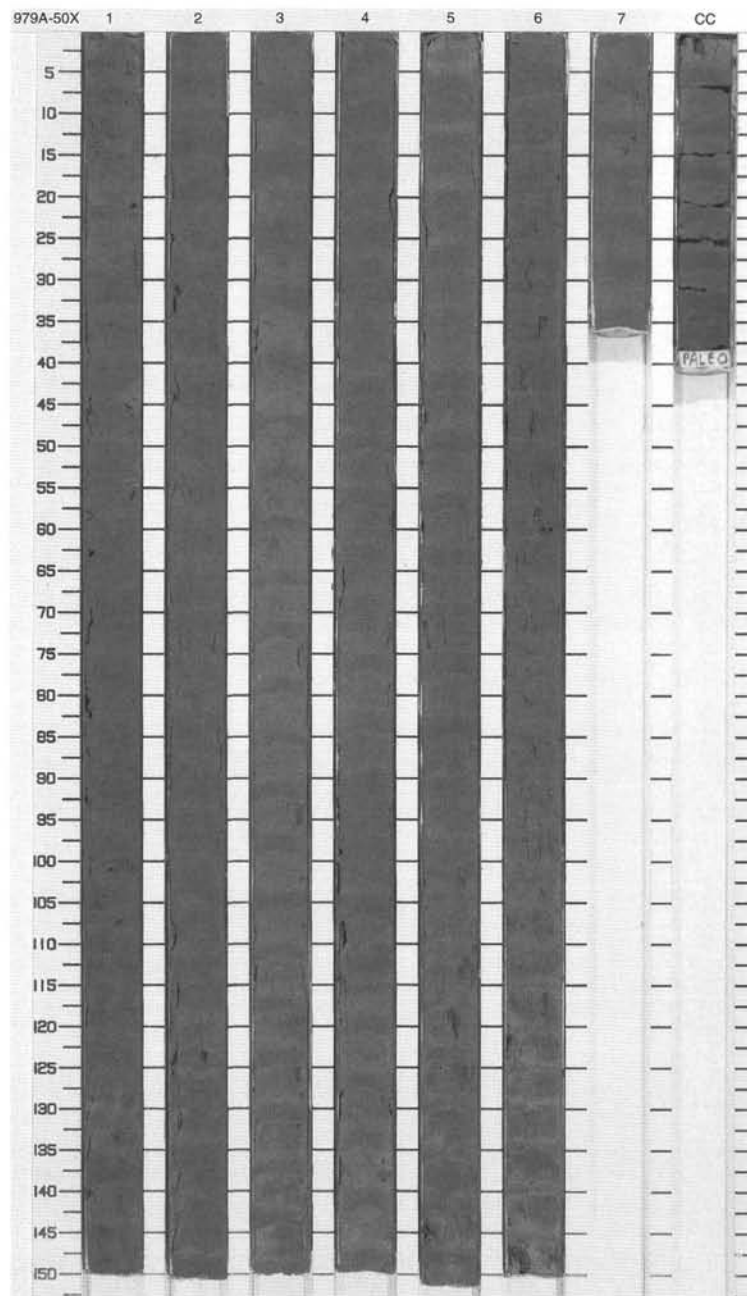
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1			W		5GY 4/1	<p>CALCAREOUS CLAY</p> <p>Major Lithology: The predominant lithology is CALCAREOUS CLAY with rare dispersed foraminifers and shell fragments. Color ranges from medium and dark greenish gray (5GY 5/1 and 5GY 4/1) to olive gray (5Y 4/1).</p> <p>Minor Lithology: Grayish olive (10Y 4/2) CALCAREOUS SILTY CLAY with subequal proportions of nannofossils and micrite is found in Section 2, 0–70 cm and Section 3, 80–120 cm.</p>
2		2				S	10Y 4/2	
3		3					5GY 5/1	
4		4					10Y 4/2	
5			late Pliocene					5GY 5/1
6		5						
7		6						
8						S		
9		7			W			5Y 4/1
10		CC			W	M		



SITE 979 HOLE A CORE 50X

CORED 455.8 - 465.5 mbsf

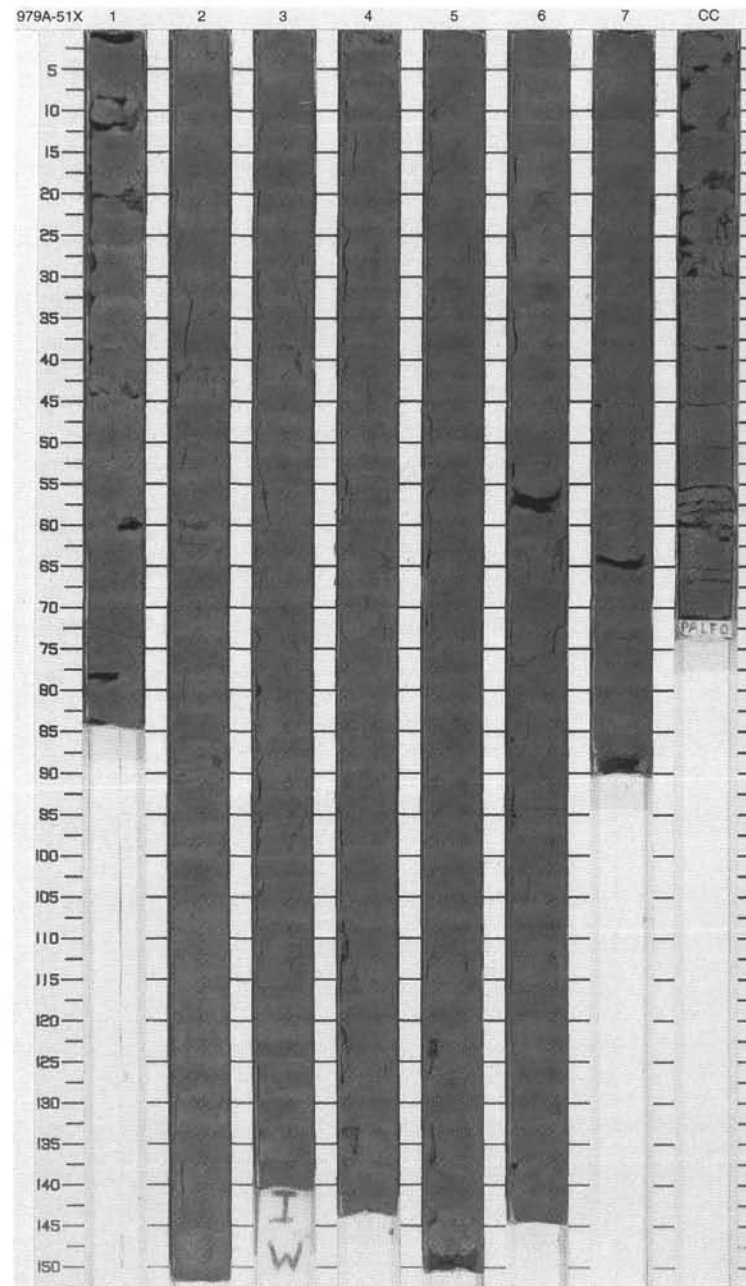
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		}}		S	5GY 5/1 To 10Y 4/2	<p>NANNOFOSSIL CLAY TO NANNOFOSSIL SILTY CLAY</p> <p>Major Lithology: The main sediment type is NANNOFOSSIL CLAY TO NANNOFOSSIL SILTY CLAY with colors ranging from medium and dark greenish gray (5GY 5/1 and 5GY 4/1) to grayish olive (10Y 4/2). The sediment is burrowed and contains rare shell fragments. Pyrite-filled burrows and concretions are present in a few places, as are dark gray flecks. Foraminifers are rare but visible. Where burrows are well-defined they are mainly horizontal types.</p> <p>General Description: Vertical fracturing of biscuits has occurred in Sections 5 and CC.</p>
2		2		}}				
3		3		}}				
4		4	late Pliocene	}}			5GY 5/1	
5		5		}}				
6		6		}}		S	5GY 4/1	
7		7		}}				
8		CC		}}		M	5GY 5/1	



SITE 979 HOLE A CORE 51X

CORED 465.5 - 475.1 mbsf

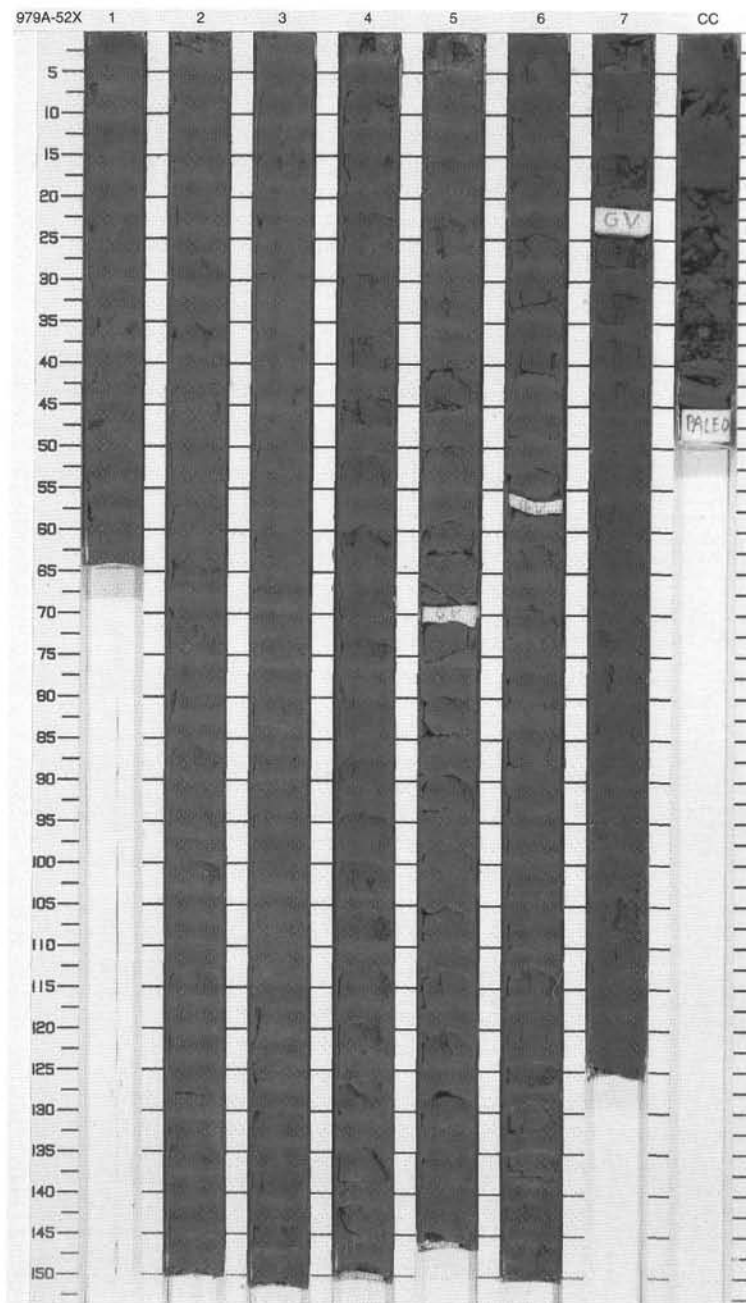
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		~	~			NANNOFOSSIL CLAY
2		2		~	~			Major Lithology: The main sediment type is NANNOFOSSIL CLAY that ranges in color from medium to dark greenish gray (5GY 5/1 to 5GY 4/1) and grayish olive (10Y 4/2). The compositions of smear slide samples from the two colors are virtually identical so the reason for the color differences could not be determined. The sediment contains a few visible foraminifers.
3		3		~	~	S	5GY 5/1	General Description: Subhorizontal burrows containing pyrite are visible as are composite <i>Planolites</i> and <i>Chondrites</i> burrows. These are particularly common in Section 6.
4		4	late Pliocene	~	~			
5		5		~	~	S		
6		6		~	~		10Y 4/2	
7		7		~	~			
8		8		~	~			
9		9		~	~		5Y 4/1	
		CC		~	~	M		



SITE 979 HOLE A CORE 52X

CORED 475.1 - 484.7 mbsf

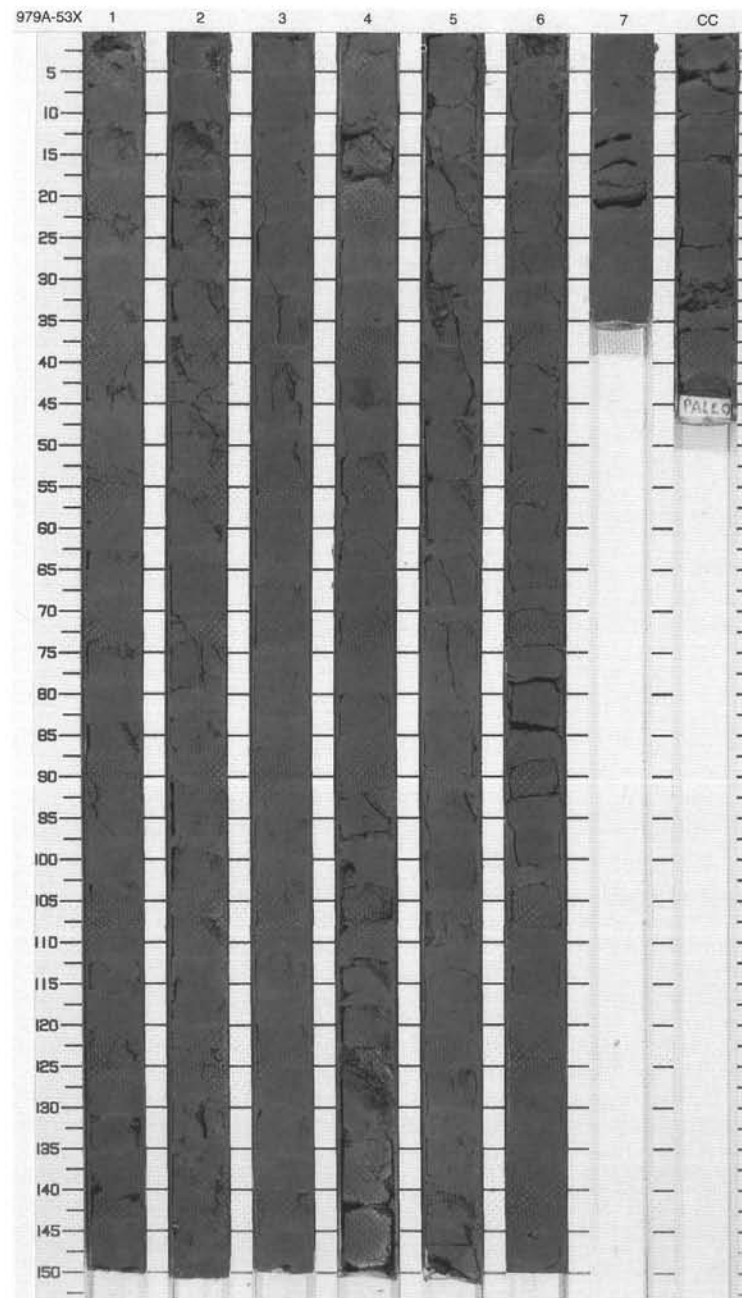
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		~			10Y 4/2	NANNOFOSSIL-RICH CLAY
2		2		~			5GY 5/1	Major Lithology: The main sediment type is weakly to heavily burrowed NANNOFOSSIL-RICH CLAY that is mostly medium and dark greenish gray (5GY 5/1 and 5GY 4/1) and grayish olive (10Y 4/2) in color. There are rare visible foraminifers and shell fragments. Burrows, where identifiable, are mixed <i>Chondrites</i> and <i>Planolites</i> .
3		3		~		S		Minor Lithologies: There are rare flecks, blebs, and discontinuous layers of dark gray (N3) SILT, with abundant pyrite, in Sections 1 and 2.
4		4		~			10Y 4/2	General Description: Vertical expansion fractures are common in drilling biscuits.
5			late Pliocene	~			5GY 4/1	
6		5		~			5GY 4/1 To 10Y 4/2	
7		6		~		S	10Y 4/2	
8		7		~				
9		CC		~		M		



SITE 979 HOLE A CORE 53X

CORED 484.7 - 494.4 mbsf

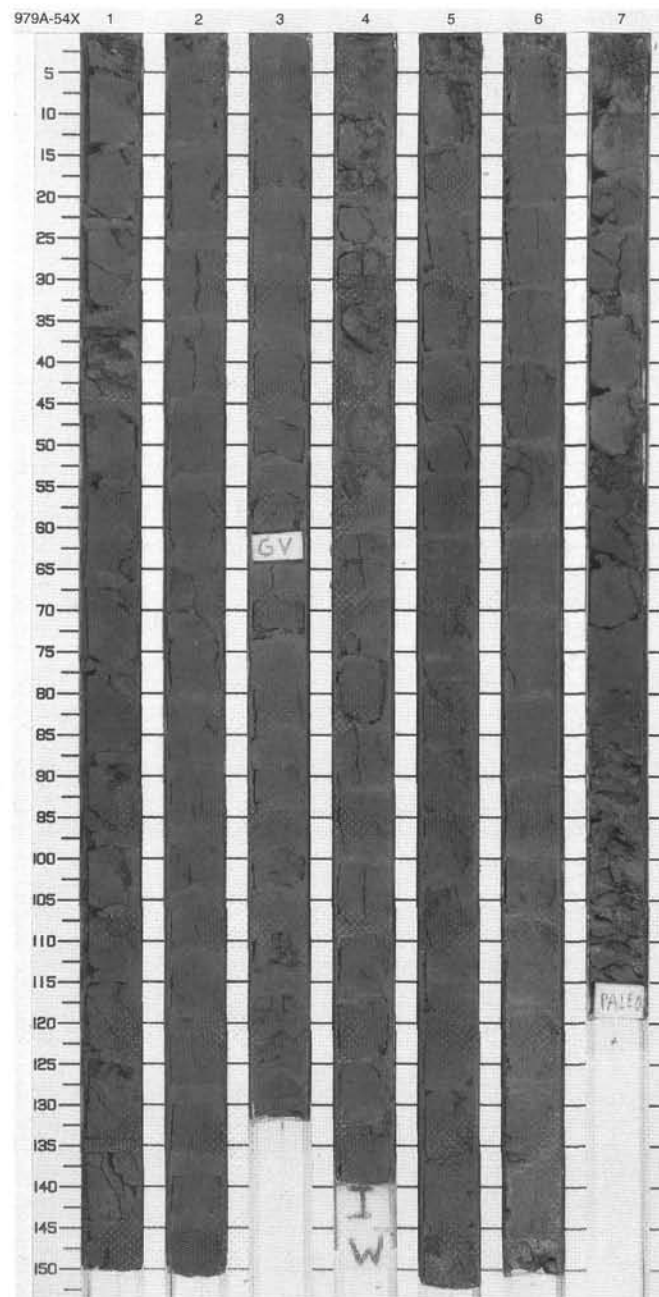
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		~		S		<p>NANNOFOSSIL CLAY</p> <p>Major Lithology: The main sediment type is NANNOFOSSIL CLAY containing up to 30% nannofossils and 14% micrite. Colors range from "greenish" grayish olive (10Y 4/2) to "grayish" medium greenish gray (5GY 5/1), and dark greenish gray (5GY 4/1). Burrowing is common and ranges from weak to heavy in intensity. <i>Chondrites</i> is common, <i>Zoophycos</i> less so. There are rare visible foraminifers.</p>
2		2		~			10Y 4/2	
3		3		~		S		<p>Minor Lithology: CALCAREOUS SANDY SILTY CLAY with 25% sand-sized grains of microcrystalline calcite, is present at the bottom of Section 6 and in Sections 7 and CC. A unit of graded SILTY CLAY with a sharp base and gradational top is present in Section 4, 25–36 cm. An interval of very fine-grained SAND with a sharp base and top is present in Section 6, 104–110 cm.</p>
4		4		~			5GY 5/1	
5		4	late Pliocene	~			5GY 4/1	<p>General Description: Inclined fissility is evident in Section 1, 130–150 cm. There is some vertical fracturing of drilling biscuits. From the top of Section 5 downward, bedding and burrows are inclined and some normal faulting is present in thin beds.</p>
6		5		~			10Y 4/2	
7		6		~			5GY 4/1	
8		6		~			5Y 5/2	
9		7		~		S	10Y 4/2	
		CC		~		M		



SITE 979 HOLE A CORE 54X

CORED 494.4 - 503.9 mbsf

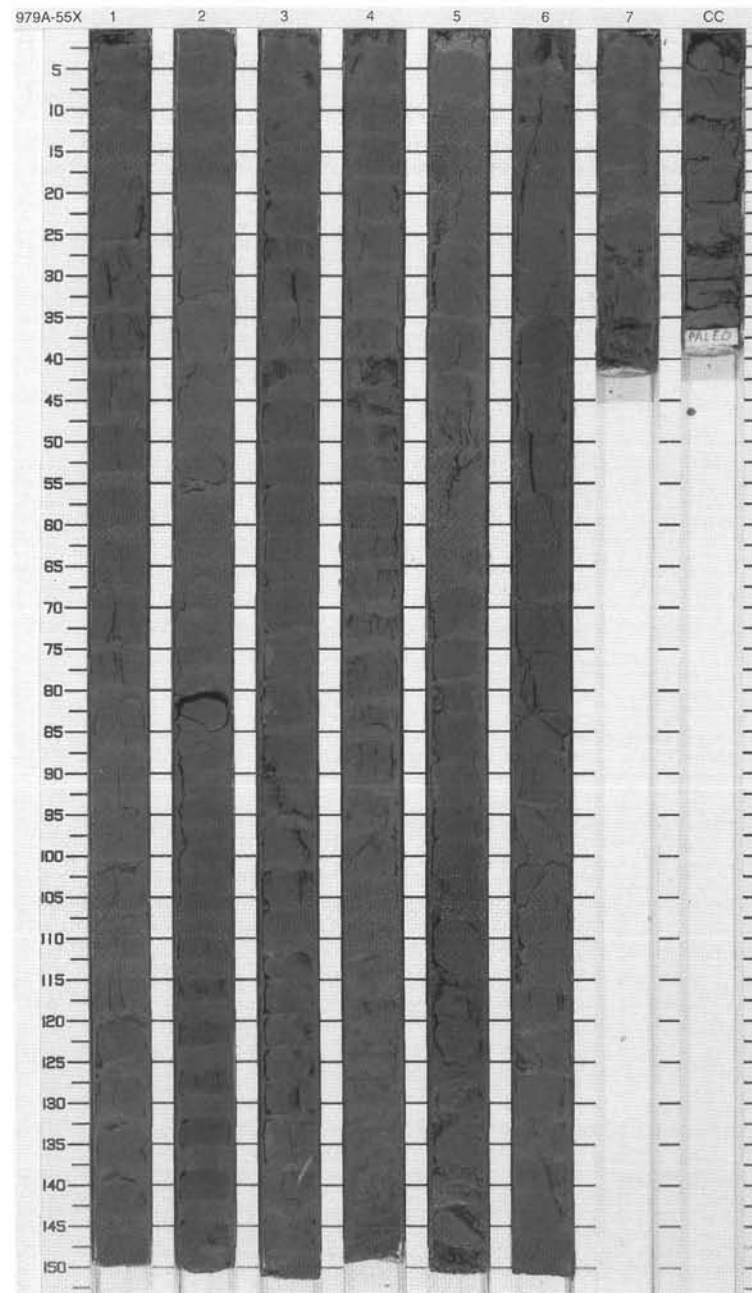
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1		1	}}			10Y 4/2	<p>NANNOFOSSIL CLAY</p> <p>Major Lithology: The main sediment type is NANNOFOSSIL CLAY that ranges in color from dark greenish gray (5GY 4/1), olive gray (5Y 4/1), and grayish olive (10Y 4/2). Burrows are rare.</p> <p>Minor Lithologies: Thin SAND beds are present in Section 3, 122–132 cm (laminated) and Section 4, 0–9 cm and 36–44 cm (soupy).</p> <p>General Description: The core is strongly deformed by drilling, and vertical fracturing is present in a number of biscuits. Section 7 fell out of the core barrel and was replaced.</p>
2		2	}				
3		3	}}		S	5GY 4/1	
4		4	}		S		
5		4	}}				
6		5	}}		I	10Y 4/2	
7		5	}}		S		
8		6	}			5Y 4/1	
9		7	}}			5GY 4/1	
10		7	}}		M	10Y 4/2	



SITE 979 HOLE A CORE 55X

CORED 503.9 - 513.5 mbsf

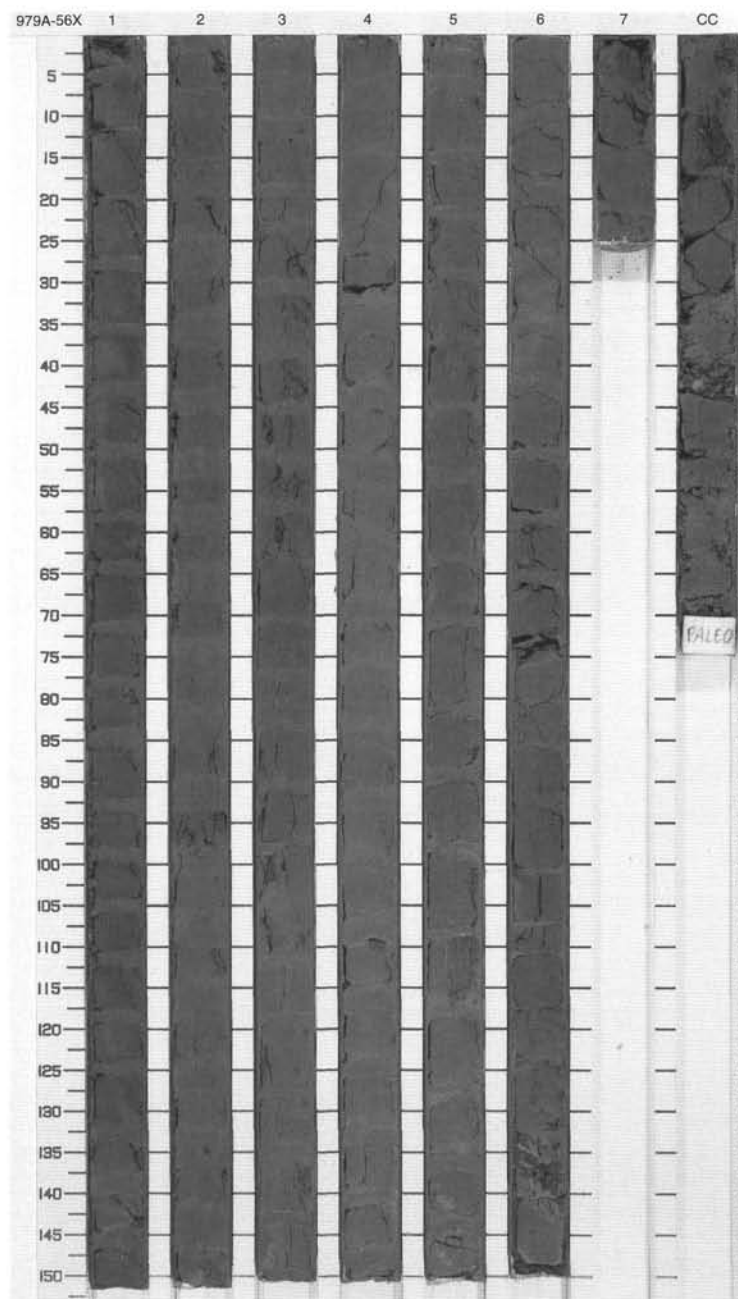
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		}}		S	5GY 4/1	<p>CALCAREOUS CLAY and NANNOFOSSIL-RICH SILTY CLAY</p> <p>Major Lithologies: The main sediment types are CALCAREOUS CLAY and NANNOFOSSIL-RICH SILTY CLAY. CALCAREOUS CLAY is the grayer of the two and is dark to medium greenish gray (5GY 4/1 to 5GY 5/1) whereas the NANNOFOSSIL-RICH SILTY CLAY is grayish olive (10Y 4/2). Burrowing is present throughout and ranges from slight to heavy. Foraminifers are present. Trace fossils belonging to the <i>Chondrites</i> ichnogenus, and some <i>Planolites</i>, are found near the tops of some intensely burrowed intervals. At least some horizontal laminations (e.g. Section 3, 113–125 cm) are due to burrowing.</p> <p>Minor Lithologies: Very fine- to fine-grained homogeneous SAND in Section 4, 120–150 cm has a gradational top. Foraminifer-rich SAND is present in Section 5, 51–54 cm.</p> <p>General Description: Biscuits have vertical fractures.</p>
2		2		}}			5GY 5/1	
3		3		}}			10Y 4/2	
4		4	late Pliocene	}}				
5		5		}}			5GY 4/1	
6		6		}}		S	5GY 4/1 To 10Y 4/2	
7		7		}}		S		
8		8		}}				
9		9		}}				
		CC		}}		M		



SITE 979 HOLE A CORE 56X

CORED 513.5 - 523.1 mbsf

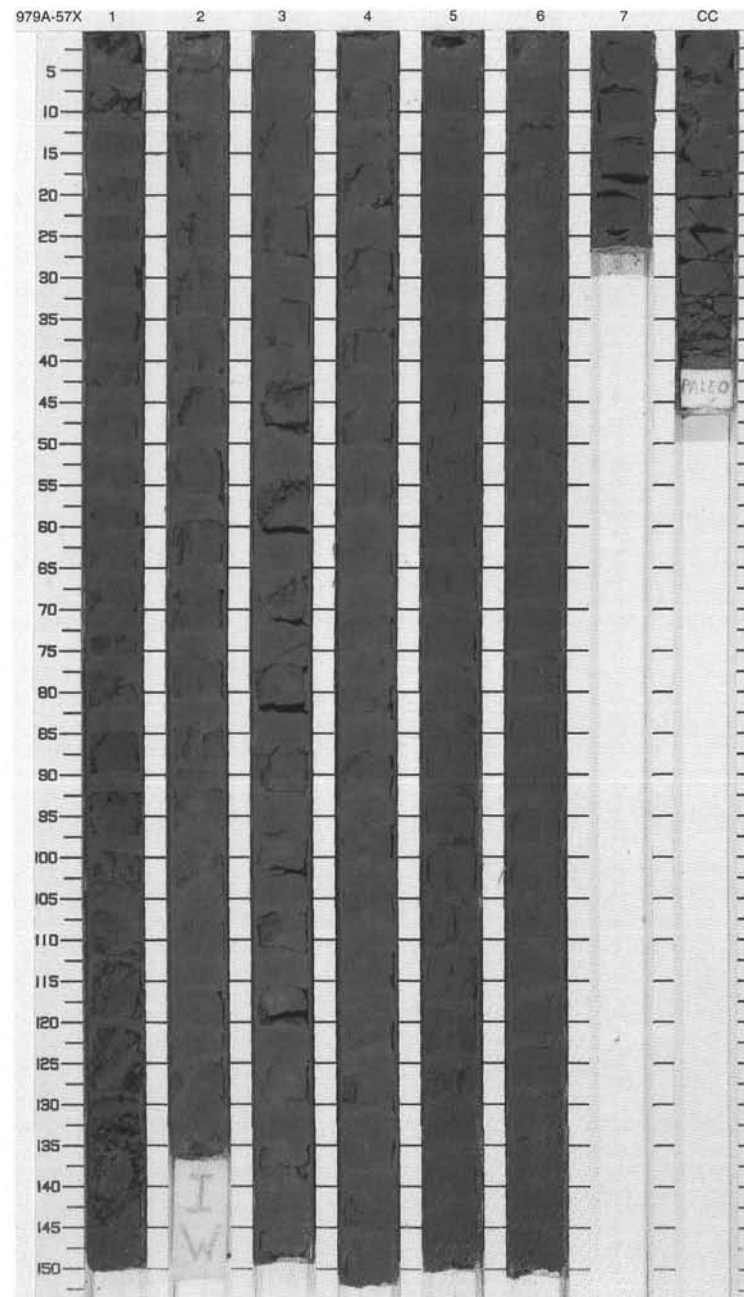
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1		1	~		S		<p>CALCAREOUS CLAY TO CALCAREOUS SILTY CLAY</p> <p>Major Lithology: The predominant lithologies are CALCAREOUS CLAY TO CALCAREOUS SILTY CLAY. The calcareous clay is grayish olive (10Y 4/2) in color. The CALCAREOUS SILTY CLAY ranges from grayish olive (10Y 4/2) to dark greenish gray (5GY 4/1) and dusky yellow green (5GY 5/2) in color. Bioturbation is slight to moderate; <i>Chondrites</i>, <i>Planolites</i>, and <i>Zoophycos</i> trace fossils are present.</p> <p>General Description: Vertical fracturing of drilling biscuits is common.</p>
2		2	~			10Y 4/2	
3		3	~				
4		3	~				
5		4	~		S	10Y 4/2 To 5GY 4/1	
6		5	~			10Y 4/2	
7		5	~		S	5GY 5/2	
8		6	~				
9		7	~			10Y 4/2	
	CC		~		M		



SITE 979 HOLE A CORE 57X

CORED 523.1 - 532.7 mbsf

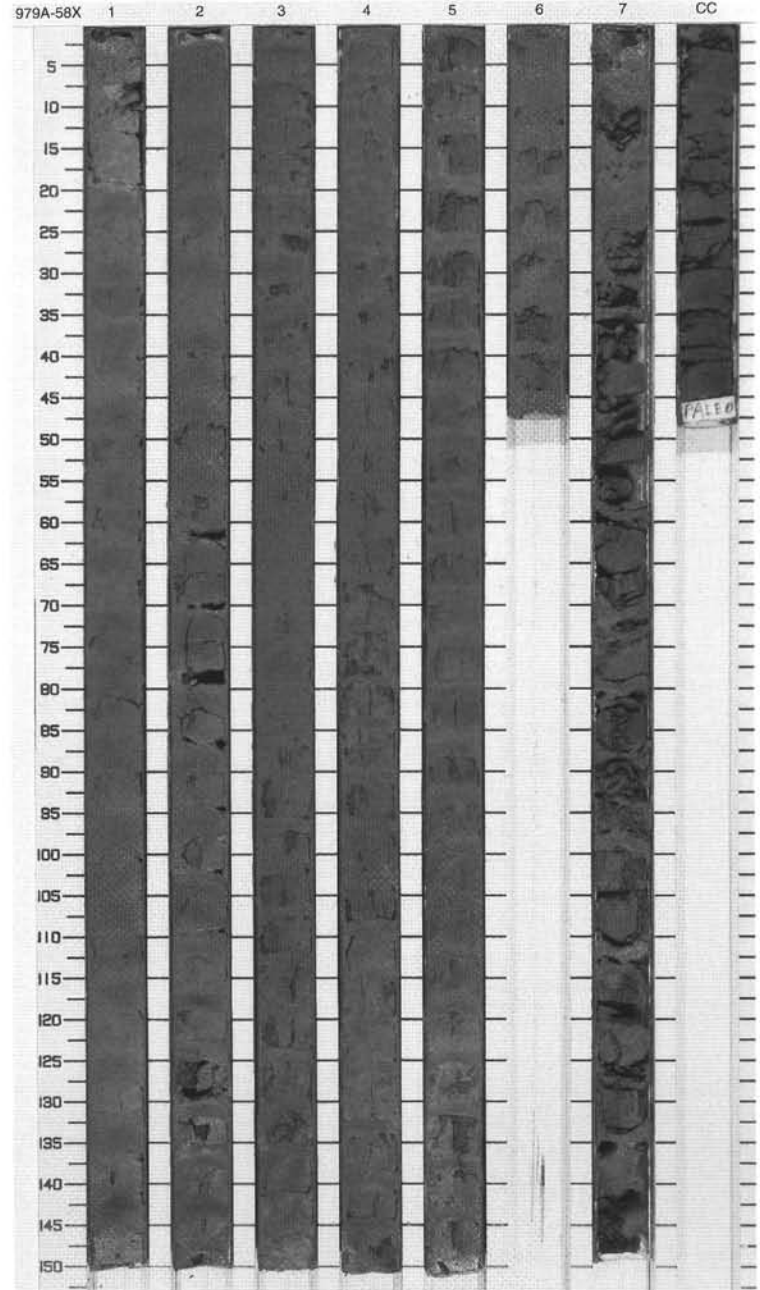
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1		1	}}			5Y 4/1 To 5Y 3/2	<p>CALCAREOUS SILTY CLAY TO CLAY</p> <p>Major Lithology: The major lithology is olive gray (5Y 3/2; 5Y 4/1) CALCAREOUS SILTY CLAY TO CLAY with scattered grayish black (N2) mineral (pyrite?) grains and shell fragments.</p> <p>General Description: <i>Chondrites</i>, <i>Planolites</i>, and <i>Zoophycos</i> burrows are common in bioturbated intervals.</p>
2		2	P				
3			P				
3			}}	I	S	5Y 4/1	
4		3					
5		4				5Y 3/2	
6			}}	S		5Y 4/1	
7		5					
8		6	P			5Y 4/1 To 5Y 3/2	
9		7				5Y 4/1	
		CC			M		



SITE 979 HOLE A CORE 58X

CORED 532.7 - 542.4 mbsf

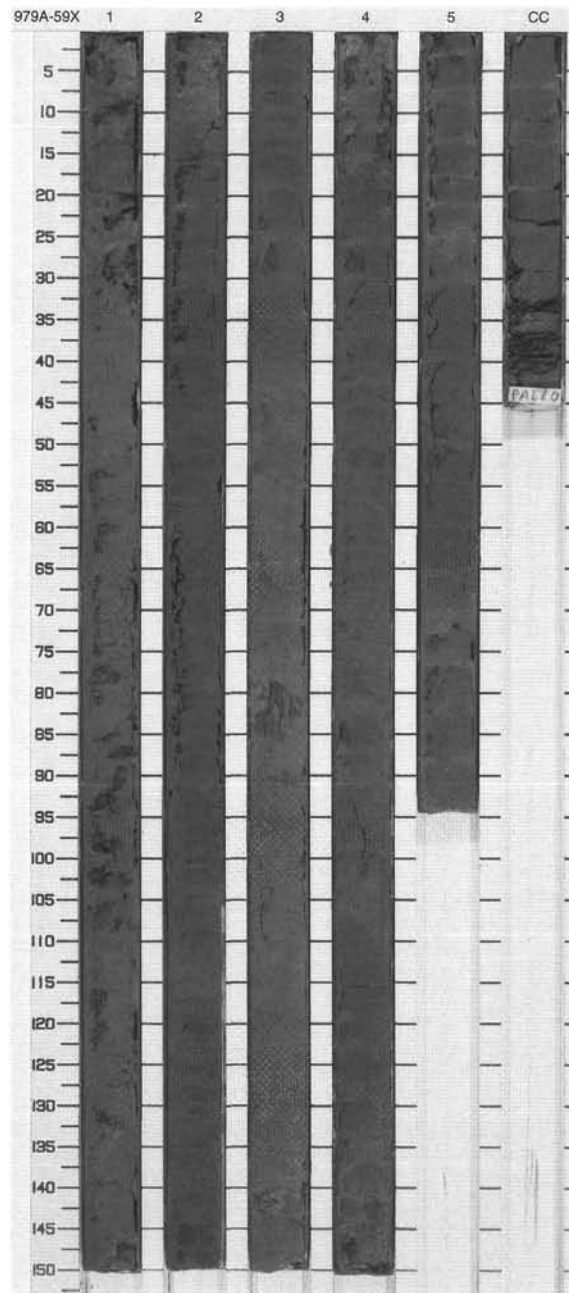
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1		1	}}	W			NANNOFOSSIL CLAY and NANNOFOSSIL SILTY CLAY Major Lithologies: The major lithologies are olive gray (5Y 4/1; 5Y 5/1) NANNOFOSSIL CLAY and NANNOFOSSIL SILTY CLAY with scattered grayish black (N2) mineral (pyrite?) grains.
2		2	}}		S	5Y 4/1 To 5Y 5/1	
3			}}			5Y 4/1	
4		3	}}			5Y 5/1	
5			}}				
6		4	}}				
7		5	}}			5Y 4/1	
8		6	}}		S		
9		7	}}	W			
		CC	}}		M		



SITE 979 HOLE A CORE 59X

CORED 542.4 - 552.1 mbsf

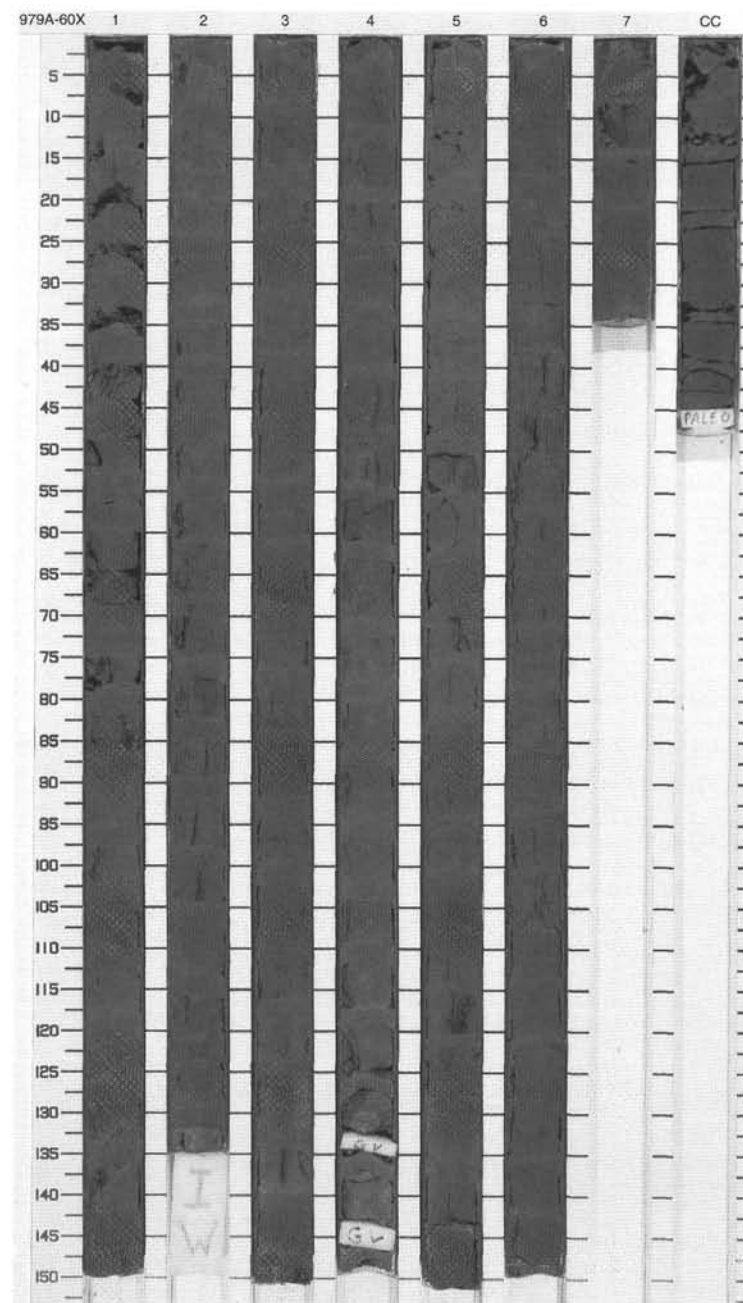
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1					5Y 4/1 To 5Y 5/1	NANNOFOSSIL CLAY and CALCAREOUS SILTY CLAY Major Lithologies: The major lithologies are olive gray (5Y 3/2; 5Y 4/1) NANNOFOSSIL CLAY and olive gray (5Y 4/1; 5Y 5/1) CALCAREOUS SILTY CLAY.
2		2		~			5Y 4/1 To 5Y 3/2	
3		3	late Pliocene	~		S	5Y 4/1 To 5Y 5/1	
4				~			5Y 3/2	
5		4		~			5Y 4/1	
6				~			5Y 3/2	
		5		~		S	5Y 3/2 To 5Y 4/1	
7		CC		~		M		



SITE 979 HOLE A CORE 60X

CORED 552.1 - 561.6 mbsf

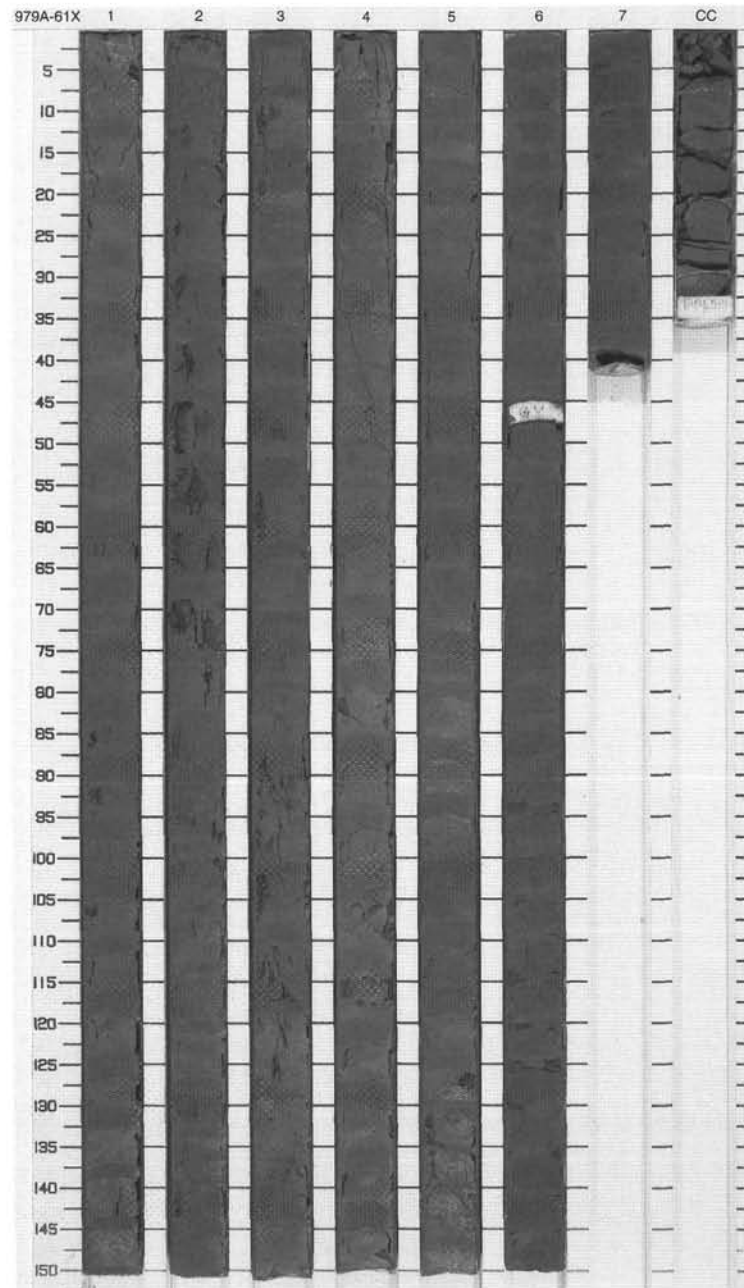
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		}}				NANNOFOSSIL-RICH SILTY CLAY
2		2		}}				Major Lithology: The major lithology is olive gray (5Y 3/2; 5Y 4/1) to dark greenish gray (5GY 4/1) NANNOFOSSIL-RICH SILTY CLAY.
3		3		}}		I	5Y 4/1 To 5Y 3/2	Minor Lithology: Dark greenish gray (5GY 4/1) GLAUCONITE-RICH SANDY SILTSTONE layer with normal grading is present at 112 cm in Section 4 to 53 cm in Section 5.
4		4	late Pliocene			S		
5		5						
6		6		△ }}			5GY 4/1	
7		7		}}			5Y 4/1 To 5Y 3/2	
8		8		}}			5Y 3/2	
9		9		}}		S	5Y 4/1	
10		10		}}		M		



SITE 979 HOLE A CORE 61X

CORED 561.6 - 571.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		}		S	5Y 4/1 To 5Y 3/2	CALCAREOUS SILTY CLAY
2		2		}		S	5GY 4/1	Major Lithology: The major lithology is light olive gray (5Y 5/2), olive gray (5Y 3/2; 5Y 4/1) and dark greenish gray (5GY 4/1) CALCAREOUS SILTY CLAY.
3		3		}			10Y 4/2 To 5GY 4/1	Minor Lithologies: Olive gray (5Y 3/2; 5Y 4/1)
4		4	late Pliocene	}		S	5GY 4/1	NANNOFOSSIL-RICH CLAY layer with siderite particles is present at 90 cm in Section 5. An olive gray (5Y 5/2) to dark greenish gray (5GY 4/1) SANDY SILT layer is present from 31 cm in Section 4 to 20 cm in Section 5.
5		5		}			5Y 5/2	
6		6		}		S	5Y 4/1 To 5Y 3/2	
7		7		}			5Y 3/2	
8		8		}			5Y 4/1 To 5GY 4/1	
9		9		}			5Y 4/1	
		CC		}		M		



SITE 979

SITE 979 HOLE A CORE 62X

CORED 571.3 - 580.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		***		S	5Y 4/4	<p>CALCAREOUS CLAYEY SILT</p> <p>Major Lithology: The major lithology is olive gray (5Y 4/1) to moderate olive brown (5Y 4/4) CALCAREOUS CLAYEY SILT with parallel lamination and glauconite concentrations.</p> <p>Minor Lithology: Medium dark gray (N4) SANDY SILTY CLAY layers with normal grading are present from 17–19 cm in Section 1 and from 34–49 cm in Section 5.</p> <p>General Description: Glauconite grains are concentrated from 34–49 cm in Section 5. <i>Chondrites</i> and <i>Planolites</i> burrows are common in bioturbated intervals.</p>
2		2		}			5Y 4/4 To 5Y 4/1	
3		3		}			5Y 4/1	
4		3		}			5Y 4/1 To 5Y 4/4	
5		4	late Pliocene	}				5Y 4/4
6		4		}				
7		5		*** (G) }		S		
8		5		}				
9		6		}			5Y 4/1	
		6		}				
		7		}				
		CC		}		M		

