

1049A-1X NO RECOVERY

1049A-2X

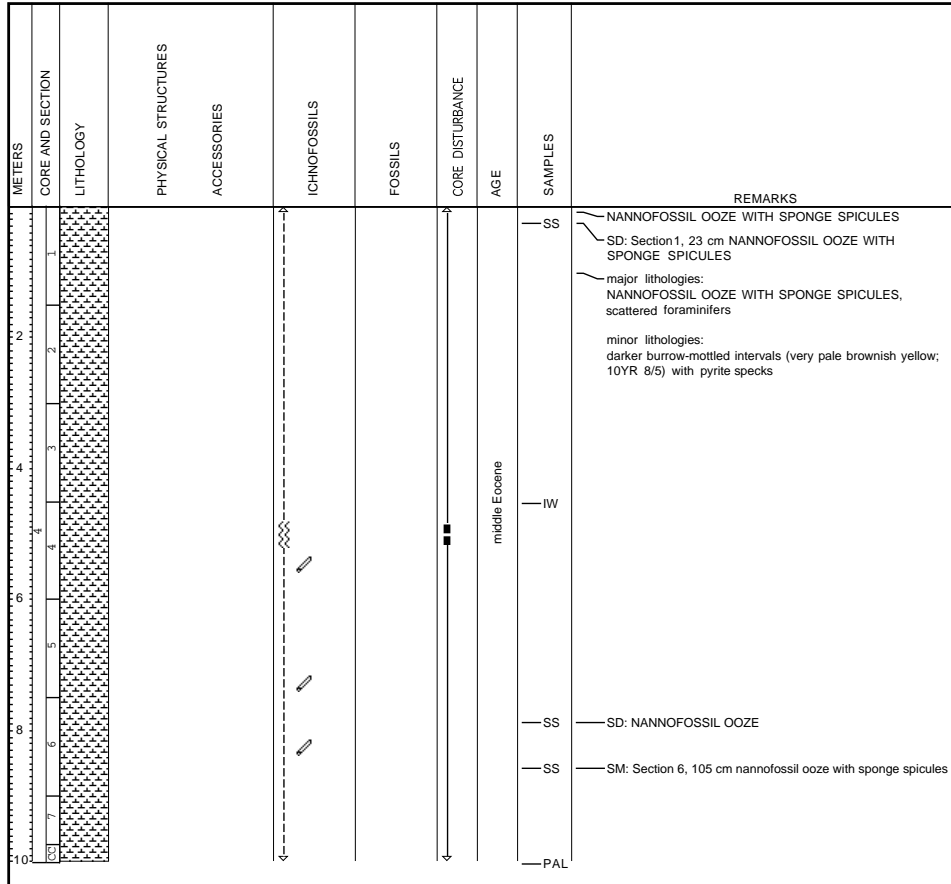
SITE 1049 HOLE A CORE 2X							CORED 9.30-18.60 mbsf				
METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	ICHNOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	REMARKS
											Pleistocene PAL 2 pieces of black (N1) Mn-oxide, nodular, 1 stratiform-globular, with thin rusty layers, containing foraminifers

SITE 1049 HOLE A CORE 3H

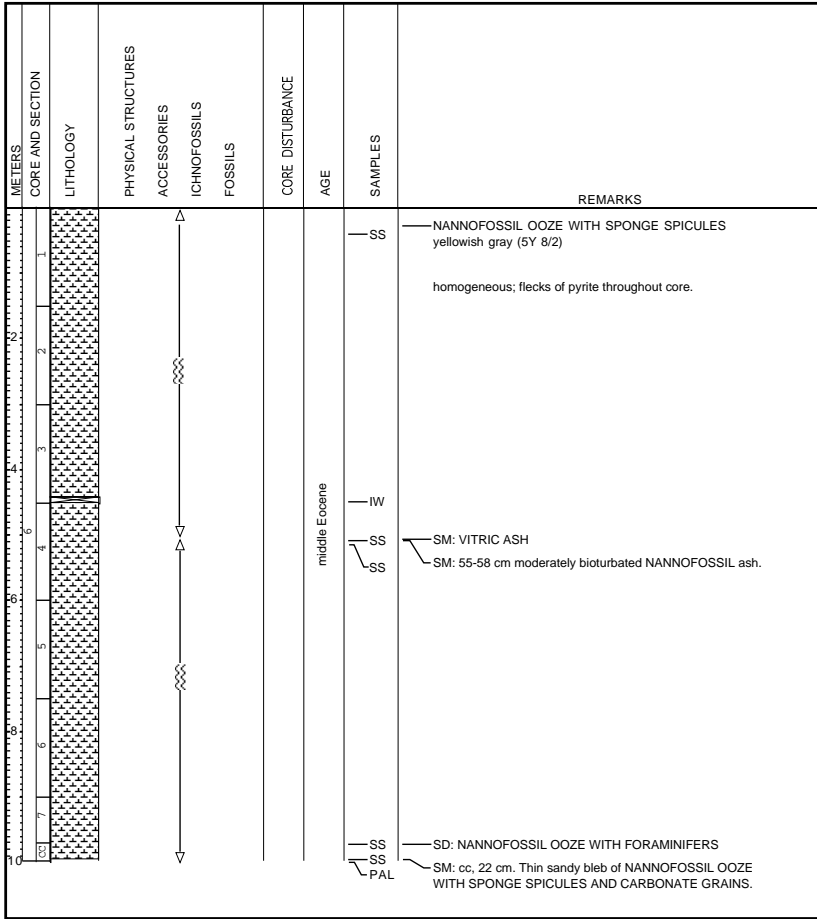
CORED 18.60-30.10 mbsf

1049A-3H

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	REMARKS
0				Py					SS	NANNOFOSSIL OOZE WITH FORAMINIFERS
2									SS	major lithologies: NANNOFOSSIL OOZE WITH FORAMINIFERS and scattered sponge spicules, elongate calcispheres. minor lithologies: Top 7 cm of core scattered manganese and phosphatic nodules, with attached foraminifers and tektite-like spherules.
4										scattered black pyrite (?) flakes throughout core
6									IW	
8									SS	SD: Section4, 100-101cm NANNOFOSSIL OOZE
10									SS	gradual color change from very pale brown to paler brown (10YR 8/3 to 10YR Y8/2) SD: Section6, 114 - 115 cm: NANNOFOSSIL OOZE WITH FORAMINIFERS
									PAL	



METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	REMARKS
0	CG									
1										NANNOFOSSIL OOZE
2										major lithologies: homogeneous, presumably bioturbated very pale yellowish (10YR 8/2)
3									SS	SD: NANNOFOSSIL OOZE.
4										
5				Py					IW	
6										
7				Py					SS	SM: 5-6cm, NANNOFOSSIL OOZE, PYRITE-RICH DARK LAYER
8									SS	SD: 120cm: NANNOFOSSIL OOZE WITH RADIOLARIA
9									PAL	



SITE 1049 HOLE A CORE 7H CORED 58.6-60.1 mbsf

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	REMARKS
58.6-60.1								early Eocene	SS SS SS PAL	<ul style="list-style-type: none"> CALCAREOUS OOZE AND NANNO OOZE WITH FORAMS yellowish white (5Y 8/2) 36-39 Nannofossil-bearing Pyritic-layer 62 cm. Pyritic-layer Pyritic blebs throughout core

1049A-7H



1049A-8X



SITE 1049 HOLE A CORE 8X CORED 60.1-61.9 mbsf

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	REMARKS
60.1-61.9								early Eocene	SS SS SS PAL	<ul style="list-style-type: none"> NANNOFOSSIL OOZE WITH FORAMINIFERS AND CARBONATE GRAINS AND NANNOFOSSIL OOZE WITH FORAMINIFERS AND RADIOLARIA 0-7 cm 3 pieces of chert & 1 piece chert with parcellanite 7 to 20 cm very pale brown (10YR 8/2), with a transition zone to underlying color from 20 to 30 cm Pyrite blebs 30 to 38 cm pink (5YR 8/3) 38 to 49 cm light gray (10YR 7/2) NANNOFOSSIL OOZE WITH CARBONATE GRAINS Pyritic blebs 49 to 55 cm pinkish white (5YR 8/2) NANNOFOSSIL OOZE WITH FORAMINIFERS AND RADIOLARIA very pale brown (10YR 8/2)

MEETERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	REMARKS
0-1										NANNOFOSSIL OOZE WITH FORAMINIFERS
1-2										Section 1, 0-110 cm, white (10YR8/2) top 10 cm intermixed w/ chert drilling chips Faint color banding Sec. 1, 65-95 cm.
2-3										SM: Sec. 1, 95-100 cm, light reddish brown (5YR6/4) vitric ASH WITH IRONOXIDE layer.
3-4										SD: Sec. 1, 108-150 cm, white (10YR8/2) NANNOFOSSIL OOZE WITH RADIOLARIANS AND FORAMINIFERA
4-5										Sec. 2: light gray (10YR7/2) NANNOFOSSIL OOZE WITH FORAMINIFERS AND RADIOLARIA Pyrite flecks scattered throughout
5-6										Section 3: Intercalated white (10YR8/2) and light gray (10YR7/2) NANNOFOSSIL OOZE WITH FORAMINIFERS AND RADIOLARIA
6-7								early Eocene		Sec. 3, 112-113 cm, bioturbated reddish brown (5YR5/3) ASH layer.
7-8										SD: Sec. 4, 40-45 cm. Gray (10YR5/1) ASH layer bioturbated w/NANNOFOSSIL OOZE WITH FORAMINIFERS AND RADIOLARIA
8-9										SM: Sec. 4, 56-150 cm, very pale brown (10YR7/3) NANNOFOSSIL OOZE WITH FORAMINIFERS, RADIOLARIA AND SPICULES Occasional Pyrite blebs and stringers.
9-10										SD: Sec. 5, 0-130 cm, very pale brown (10YR7/3) NANNOFOSSIL OOZE WITH FORAMINIFERS. Occasional Pyrite blebs.
10-11										CC: very pale brown (10YR7/3) NANNOFOSSIL OOZE W/ FORAMINIFERS AND RADIOLARIA.

SITE 1049 HOLE A CORE 10X

CORED 69.4-77.1 mbsf

1049A-10X

1049A-11X

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTNOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	REMARKS
0-10	1	Light gray (10YR 8/2) NANNOFOSSIL OOZE with occasional burrows						early Eocene	SS, SS, SS, SS, IW	<p>NANNOFOSSIL OOZE</p> <p>major lithology: light gray (10YR 8/2) NANNOFOSSIL OOZE with occasional burrows</p> <p>minor lithologies:</p> <p>Section 1, 104-108 cm, NANNOFOSSIL OOZE WITH RADIOLARIA overlying a thin ASH layer (Section 1, 109-110 cm).</p> <p>SM: Sec. 1, 109 cm VITRIC ASH W/CARBONATE GRAINS</p> <p>SM: Sec. 1, 110 cm VITRIC ASH W/CARBONATE GRAINS</p> <p>SD: Section 1, 120 cm. Light gray (10YR 7/2) CARBONATE NANNOFOSSIL OOZE</p> <p>Section 2, 0-88 cm, light gray (10YR 7/2) NANNOFOSSIL OOZE with occasional burrows of white (10YR 8/2) NANNOFOSSIL OOZE</p> <p>minor lithologies:</p> <p>MICRITIC LIMESTONE NODULES w/ visible burrows at 90-93 cm; 123-128 cm; 145-148 cm.</p> <p>CHERT LAYERS at 93-97 cm; 107-110 cm; 133-134 cm.</p> <p>SM: Sec. 2, 126 cm, MICRITIC LIMESTONE</p> <p>Section 3, 0-6 cm, MICRITIC LIMESTONE NODULES w/ visible burrows.</p> <p>Section 3, very pale brown (10YR 8/3) NANNOFOSSIL OOZE intercalated w/ white (10YR 8/3) NANNOFOSSIL OOZE</p> <p>very pale brown (10YR 8/2) NANNOFOSSIL OOZE grading into white (10YR 8/3) NANNOFOSSIL OOZE</p>
10-20	2	Light gray (10YR 7/2) NANNOFOSSIL OOZE with occasional burrows of white (10YR 8/2) NANNOFOSSIL OOZE								
20-30	3	MICRITIC LIMESTONE NODULES w/ visible burrows								

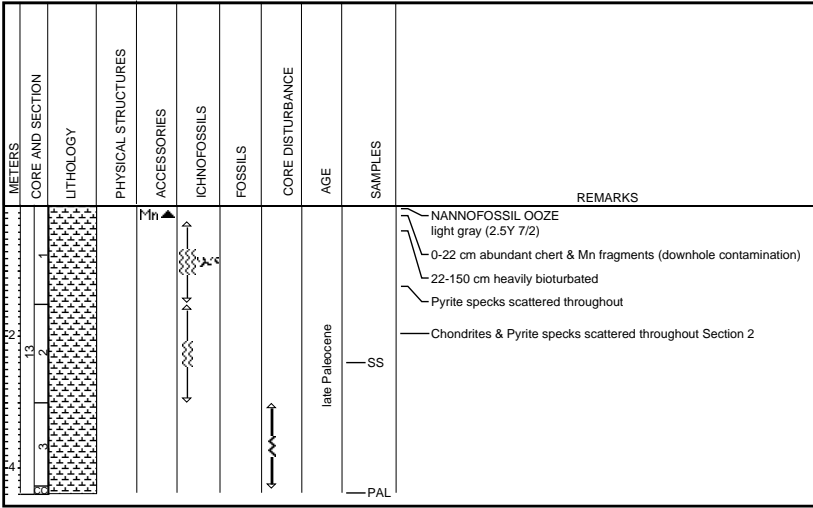
SITE 1049 HOLE A CORE 11X

CORED 77.1-86.1 mbsf

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTNOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	REMARKS
77.1-86.1	1	Highly fractured pieces of CHERT and LIMESTONE						early Eocene		Highly fractured pieces of CHERT and LIMESTONE

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	REMARKS
1.0				▲ Py	↕				SS	NANNOFOSSIL OOZE Light gray (2.5Y 7/2)
1.5				▲ Py	↕				SS	SD: Sec. 1, 33 cm NANNOFOSSIL OOZE
2.0					↕			early Eocene	IW	
2.5				Py	↕				SS	SD: Sec. 2, 31 cm, NANNOFOSSIL OOZE
					↕					Pyrite blebs scattered throughout Section 2 & Core Catcher
					↕				SS PAL	SD: Sec. CC, 35 cm, CARBONATE NANNOFOSSIL OOZE

SITE 1049 HOLE A CORE 13H CORED 95.7-100.1 mbsf



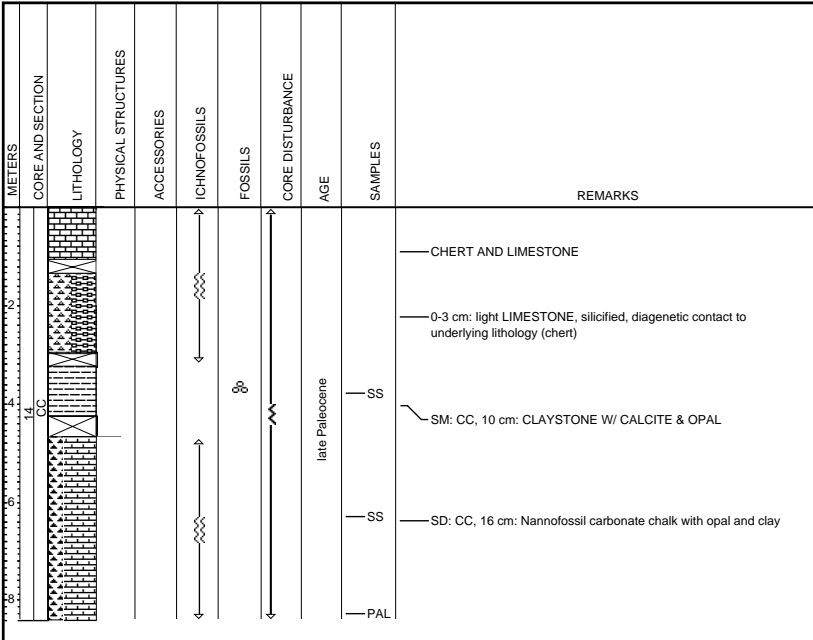
1049A-13H



1049A-14X



SITE 1049 HOLE A CORE 14X CORED 100.1-105.3 mbsf

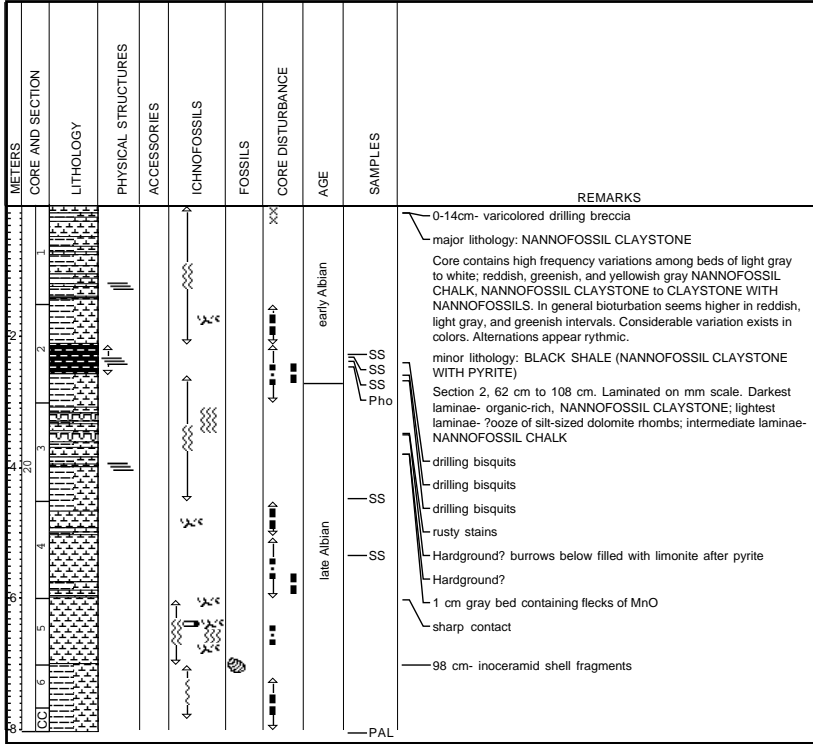


METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	REMARKS
0.0										
0.5										
1.0										
1.5										
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METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	REMARKS
0										
1									SS	<p>CLAYEY NANNOFOSSIL OOZE to NANNOFOSSIL CLAYSTONE</p> <p>Major Lithology: CLAYEY NANNOFOSSIL OOZE to NANNOFOSSIL CLAYSTONE Section 1 through Section 5, 141 cm. Gradational, apparently cyclic color variations (10YR 8/3, pale orange to 10YR 8/1, very pale orange) with ~5 alternations from Section 1 to Section 3, 70 cm; variation impossible to discern in remainder of Section 3 but apparent again in Sections 4 and 5 where there are ~5 cycles with color varying from 10 YR 7/3 (grayish orange) to 10 YR 8/2 (very pale orange). Interval generally burrow-mottled although no traces identifiable. Primary depositional contacts preserved in areas of Sections 4 and 5. Section 4, is vaguely laminated from 38-48 cm and is homogeneous from 48-110 cm. Scattered yellow (?limonite) and dark (?MnO) blebs throughout. Yellow blebs concentrated in three layers around 100 cm in Section 3. Green unidentified blebs at ~ 110 cm in Section 3.</p>
2								IW		
3										
4								SS SS		
5										
6								SS		
CC										<p>Minor Lithology: CLAYSTONE WITH NANNOFOSSILS Section 5 through Core Catcher. Homogeneous 5GY 6/1 (greenish gray). Scattered dark (?MnO) blebs.</p> <p>note plots without gap between last recovered material in Section 6 and Core Catcher.</p>
									PAL	

early Paleocene

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTNOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0	CC										
1								camp.	SS		<p>NANNOFOSSIL CHALK to NANNOFOSSIL CLAYSTONE</p> <p>major lithologies: NANNOFOSSIL CHALK, NANNOFOSSIL CLAYSTONE</p> <p>minor lithology: CLAYSTONE WITH NANNOFOSSILS</p> <p>Core contains high frequency variations among beds of light gray (N7) NANNOFOSSIL CHALK, dusky red (2.5YR 3/6) and greenish gray 5GY 5/1 NANNOFOSSIL CLAYSTONE with subordinate laminated light yellowish brown (10YR 5/4) CLAYSTONE WITH NANNOFOSSILS. There is considerable variation around these colors. The yellowish intervals are vaguely to distinctly laminated whereas red, green, and white intervals are typically burrow-mottled (although traces of primary contacts preserved) with shades of gray, red, pink, green, and yellow resulting in a visually striking core. Alternations appear rhythmic.</p> <p>drilling biscuits 70-82 cm</p>
1.5								SS	WH		
2								SS	RD		
2.5								SS	GY		
3									WH		
3.5									PK		
4									ye GN		
4.5									IW		
5									SS		
5.5									RD	echinoid spine	
6									SS		
									PAL		



SITE 1049 HOLE A CORE 21X

CORED 163.1-172.7 mbsf

1049A-21X

1049A-22X

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
1									SS	med rd OR ye GY	NANNOFOSSIL CLAYSTONE CALCAREOUS CHALK WITH CLAY AND CLAYEY CALCAREOUS CHALK 10 to 50 cm alternations among reddish orange NANNOFOSSIL CLAYSTONE to yellowish gray CALCAREOUS CHALK WITH CLAY and grayish yellow CLAYEY NANNOFOSSIL CHALK. Bioturbation is distinct in intervals where color changes.
2									dk ye OR WH		
									WH pal RD		
									dk ye OR WH		
									dk ye OR ..		
									WH		
									WH pal RD ..		
									gy RD WH IL BR		
									gy YE pal RD		
									WH ..		
									SS		
									PAL		

SITE 1049 HOLE A CORE 22X



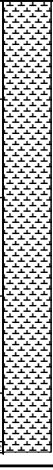

CORED 172.7-182.3 mbsf

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	REMARKS
1				Fe					SS	NANNOFOSSIL CHALK white (10YR 8/1) and pink (5YR 8/3); bioturbated
2				Mn Fe					W	
									SS	Hardgrounds: Sec 1, 9-15 cm; CC, 31-34 cm.
									PAL SS	

SITE 1049 HOLE B CORE 1H

CORED 2.0-11.5 mbsf

1049B-1H

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	REMARKS
				Mn				middle Eocene	PAL	<p>NANNOFOSSIL OOZE WITH FORAMS (homogeneous core) Some Mn oxide spots throughout core</p>

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTNOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	REMARKS
								<p>middle Eocene</p>	<p>PAL</p>	<p>NANNOFOSSIL OOZE WITH FORAMS (homogeneous core) Some Mn oxide spots throughout core light yellowish white (2.5Y 8/2)</p>

SITE 1049 HOLE B CORE 3H

CORED 21.00-30.50 mbsf

1049B-3H

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	REMARKS
								<p>middle Eocene</p>	<p>PAL</p>	<p>NANNOFOSSIL OOZE WITH FORAMS, pale yellowish white (5Y 8/2) (homogeneous core)</p> <p>CC, 10 cm. Light gray (10YR 7/2) ASH layer</p>

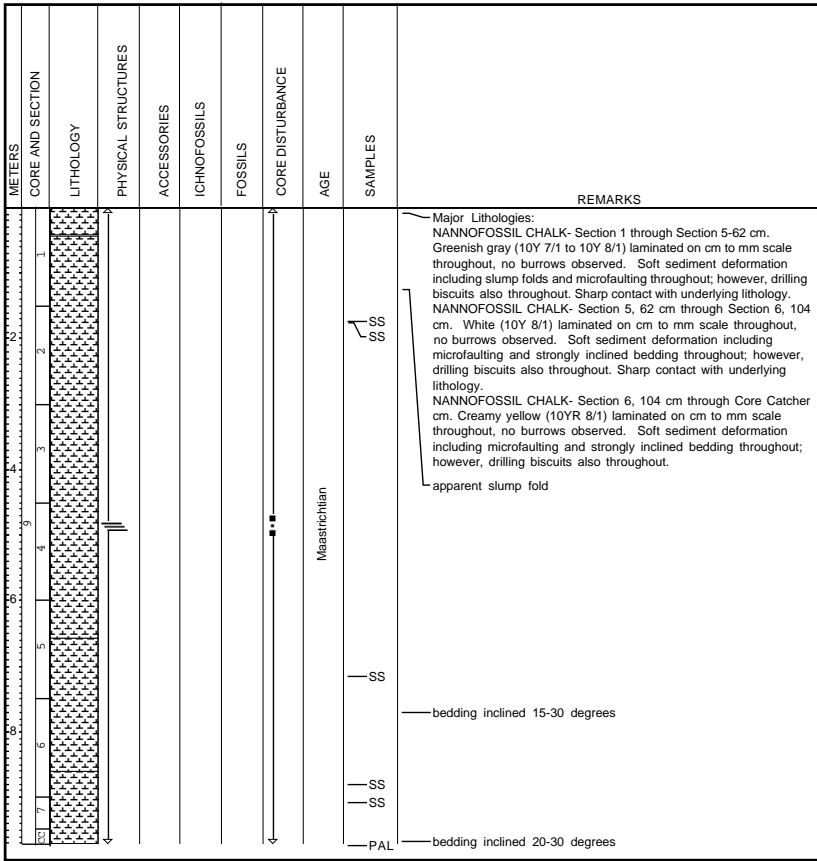
METERS	CORE AND SECTION LITHOLOGY	PHYSICAL STRUCTURES ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	REMARKS
						middle Eocene —SS —PAL		NANNOFOSSIL OOZE light yellowish white (2.5Y 8/2) with some scattered Pyrite blebs. (Homogeneous lithology throughout core) 105-106 cm brownish interval, NANNOFOSSIL OOZE WITH SPONGE SPICULES

SITE 1049 HOLE B CORE 5H

CORED 40.00-46.5 mbsf

1049B-5H

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	REMARKS
0 1 2 3 4 5 6	5H							middle Eocene SS PAL	NANNOFOSSIL OOZE light yellowish white to pinkish white (2.5Y 8/2) 87-90 cm: brown interval (10YR 5/3) 70 cm: color change 74 cm: Mn rich layer	

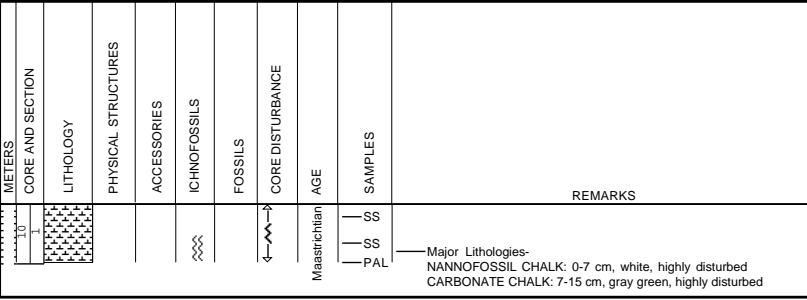


SITE 1049 HOLE B CORE 10X

CORED 128.10-137.70 mbsf

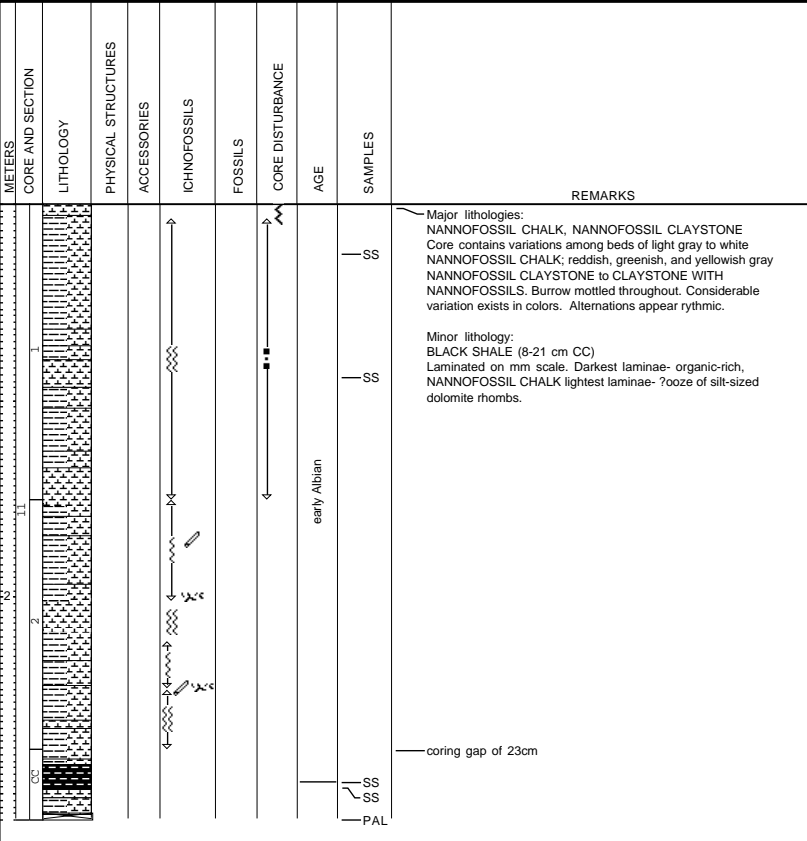
1049B-10X

1049B-11X



SITE 1049 HOLE B CORE 11X

CORED 137.70-147.30 mbsf



SITE 1049 HOLE B CORE 12X


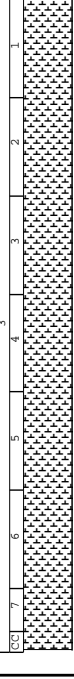
CORED 147.30-156.90 mbsf

1049B-12X

1049C-1H

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	DRILLING DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0	CC											
1				Mn							It BR	Drilling breccia
1.5											It ye GY	variegated CLAYEY NANNOFOSSIL CHALK ranging in color from light brown, to yellow gray, with dusky yellow, moderate reddish brown, pale yellow and white layers
2				Mn								5YR 5/6
2.5											It BR	
3											It BR	
3.5											It BR	
4				Mn							It BR	
4.5											It rd BR ye GY	
5											It BR	
5.5											ye GY	
6											It BR	
6.5											It BR	
7											ye GY	SM: 96 cm NANNOFOSSIL CLAYSTONE
7.5											It BR	
8											ye GY	
8.5											It BR	
9											ye GY	
9.5											It BR	white pinkish flakes and yellowish crust
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METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOINOFOSSELS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	REMARKS
								middle Eocene	PAL	<p>NANNOFOSSIL OOZE WITH FORAMINIFERS Pale yellowish white (5Y 8/2) (Homogeneous core) Black specks throughout core</p>

METERS	CORE AND SECTION LITHOLOGY	PHYSICAL STRUCTURES ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	REMARKS
					<p>∞</p>	<p>middle Eocene</p>	<p>PAL</p>	<p>NANNOFOSSIL OOZE WITH FORAMINIFERS Pale yellowish white (5Y 8/2). Black flecks throughout core.</p>

SITE 1049 HOLE C CORE 4H

CORED 30.5-40.0 mbsf

1049C-4H

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	REMARKS
							middle Eocene	<p>PAL</p>	<p>NANNOFOSSIL OOZE Pale yellowish white (5Y 8/2). Black flecks throughout core.</p>	

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTNOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	REMARKS
								<p>middle Eocene</p>	<p>PAL</p>	<p>— NANNOFOSSIL OOZE WITH FORAMINIFERS pale yellowish brown (2.5Y 8/2)</p>

SITE 1049 HOLE C CORE 6X

CORED 90.0-96.5 mbsf

1049C-6X

1049C-7X

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	REMARKS
0.0										
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91.0										
92.0										
93.0										
94.0										
95.0										
96.5										

SITE 1049 HOLE C CORE 7X

CORED 96.5-106.1 mbsf

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	REMARKS
0.0										
1.0										
2.0										
3.0										
4.0										
5.0										
6.0										
7.0										
8.0										
9.0										
10.0										
11.0										
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78.0										

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
106.1											
106.2											
106.3											
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106.8											
106.9											
107.0											
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115.7											

SITE 1049 HOLE C CORE 9X

CORED 115.7-120.2 mbsf

1049C-9X

METERS CORE AND SECTION LITHOLOGY	PHYSICAL STRUCTURES ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	REMARKS
					late Maastrichtian — SS — PAL		CLAYEY NANNOFOSSIL CHALK Pale green (10GY 7/1) Laminated, soft sediment deformation and microfaulting.

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTNOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	REMARKS
								<p>late Maastrichtian</p>	<p>SS</p> <p>PAL</p>	<p>CLAYEY NANNOFOSSIL CHALK WITH CARBONATE GRAINS 10GY 7/1 pale green laminated with microfaults and soft sediment deformation minor drilling disturbance 0-55 cm flow-in</p>

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHNOFOSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
1.0	1									lt BR	<p>CLAYEY NANNOFOSSIL CHALK</p> <p>Alternations of light gray CLAYEY NANNOFOSSIL CHALK and light brown, NANNOFOSSIL CLAYSTONE slightly to heavily bioturbated & Bivalve and echinoid fragments scattered throughout. Partly laminated, Sec.2, 140-150 cm, and Sec. CC, 20-40 cm.</p>
1.1	2			Min	~					lt BR	
1.2	2				~					vt gn GY	
1.3	2				~					lt BR	
1.4	2				~					lt BR	
1.5	2				~					lt BR	
1.6	2				~					vt gn GY	
1.7	2				~					lt BR	
1.8	2				~					lt gn GY	
1.9	2				~					gn GY	
2.0	2				~					vt gn GY	
2.1	2				~					vt gn GY	
2.2	2				~					vt gn GY	
2.3	2				~					vt gn GY	
2.4	2				~					vt gn GY	
2.5	2				~					vt gn GY	
2.6	2				~					vt gn GY	
2.7	2				~					vt gn GY	
2.8	2				~					vt gn GY	
2.9	2				~					vt gn GY	
3.0	2				~					vt gn GY	
3.1	2				~					vt gn GY	
3.2	2				~					vt gn GY	
3.3	2				~					vt gn GY	
3.4	2				~					vt gn GY	
3.5	2				~					vt gn GY	
3.6	2				~					vt gn GY	
3.7	2				~					vt gn GY	
3.8	2				~					vt gn GY	
3.9	2				~					vt gn GY	
4.0	2				~					vt gn GY	
4.1	2				~					vt gn GY	
4.2	2				~					vt gn GY	
4.3	2				~					vt gn GY	
4.4	2				~					vt gn GY	
4.5	2				~					vt gn GY	
4.6	2				~					vt gn GY	
4.7	2				~					vt gn GY	
4.8	2				~					vt gn GY	
4.9	2				~					vt gn GY	
5.0	2				~					vt gn GY	
5.1	2				~					vt gn GY	
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5.3	2				~					vt gn GY	
5.4	2				~					vt gn GY	
5.5	2				~					vt gn GY	
5.6	2				~					vt gn GY	
5.7	2				~					vt gn GY	
5.8	2				~					vt gn GY	
5.9	2				~					vt gn GY	
6.0	2				~					vt gn GY	
6.1	2				~					vt gn GY	
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6.3	2				~					vt gn GY	
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6.6	2				~					vt gn GY	
6.7	2				~					vt gn GY	
6.8	2				~					vt gn GY	
6.9	2				~					vt gn GY	
7.0	2				~					vt gn GY	
7.1	2				~					vt gn GY	
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7.8	2				~					vt gn GY	
7.9	2				~					vt gn GY	
8.0	2				~					vt gn GY	
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8.6	2				~					vt gn GY	
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9.0	2				~					vt gn GY	
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10.9	2				~					vt gn GY	
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11.2	2				~					vt gn GY	
11.3	2				~					vt gn GY	
11.4	2				~					vt gn GY	
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11.9	2				~					vt gn GY	
12.0	2				~					vt gn GY	
12.1	2				~					vt gn GY	
12.2	2				~					vt gn GY	
12.3	2				~					vt gn GY	
12.4	2				~					vt gn GY	
12.5	2				~					vt gn GY	
12.6	2				~					vt gn GY	
12.7	2				~					vt gn GY	
12.8	2				~					vt gn GY	
12.9	2				~					vt gn GY	
13.0	2				~					vt gn GY	
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14.9	2				~					vt gn GY	
15.0	2				~					vt gn GY	
15.1	2				~					vt gn GY	
15.2	2				~					vt gn GY	
15.3	2				~					vt gn GY	
15.4	2				~					vt gn GY	
15.5	2				~					vt gn GY	
15.6	2				~					vt gn GY	
15.7	2				~					vt gn GY	
15.8	2				~					vt gn GY	
15.9	2				~					vt gn GY	
16.0	2				~					vt gn GY	
16.1	2				~					vt gn GY	
16.2	2				~					vt gn GY	
16.3	2				~					vt gn GY	
16.4	2				~					vt gn GY	
16.5	2				~					vt gn GY	
16.6	2				~					vt gn GY	
16.7	2				~					vt gn GY	
16.8											