

Core Image

Site 1098 Hole A Core 1H						Cored 0.0-1.9 mbsf		
METERS	SECTION	GRAPHIC	LITH.	BIOTURB.	STRUCTURE	DISTURB.	SAMPLE	DESCRIPTION
								<p>MUDDY DIATOM OOZE and MUD-BEARING DIATOM OOZE</p> <p>Section 1, 0-24: Greenish gray (5Y 4/2) muddy diatom ooze with some darker (5Y 3/2) laminae.</p> <p>24-50 cm: Laminated dark greenish gray mud-bearing diatom ooze (5Y 3/2 and 5Y 4/2).</p> <p>50-80 cm: Greenish gray muddy diatom ooze (mostly massive) with scattered sand grains.</p> <p>80-85 cm: Muddy diatom ooze, irregularly laminated with black spots.</p> <p>85-100 cm: Massive greenish gray (5Y 4/2) muddy diatom ooze . Scattered sand grains with vertical burrows.</p> <p>Section 2, 0-70 cm: Alternating, bedded, diatomaceous mud and ooze. Laminated at: 16-19; 41-43; 59-69 cm. The massive beds are also very weakly laminated. Color is predominantly olive gray (5Y 4/2) with darker laminae darker olive gray (5Y 3/2). Thin vertical burrows are present. Brownish (5Y 3/2) layer at 41-43 cm.</p> <p>Core Catcher, 0-18 cm: Massive (weakly laminated) diatomaceous mud.</p>

CORE DESCRIPTIONS
VISUAL CORE DESCRIPTIONS, SITE 1098

2

Core Image

Site 1098 Hole A Core 2H					Cored 1.9-11.4 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	DISTURB.	SAMPLE	DESCRIPTION
1					SS	MUDDY DIATOM OOZE and MUD-BEARING DIATOM OOZE Section 1, 0-50 cm: Disturbed core. 50-150 cm: Alternations of burrowed mottled muddy diatom ooze and laminated variably colored mud-bearing diatom oozes. Color is dominantly olive gray (5Y 4/2). Laminated intervals at 69-73, 89-90, 103-125 cm and 139-140 cm. Burrow on working half 128-134 cm. Open burrow at 141-142 cm.
2					SS	Section 2, 0-53 cm: Massive, burrowed muddy diatom ooze with some faint structure. Color is olive gray (5Y 4/2) throughout. 53-60 cm: Laminated mud-bearing diatom ooze. 60-118 cm: Massive, burrowed muddy diatom ooze. Burrows at 76-77 cm. 118-134 cm: Weakly laminated and thin bedded (1-3 cm). 134-150 cm: Less distinct laminations, with burrows at 135 cm, and open burrows in working half at 107-120 cm.
3					SS	Section 3, 0-150 cm: Indistinctly laminated (<1 cm) and thin-bedded (1-3 cm) mud-bearing diatom ooze. Bioturbation is pervasive but several open burrows are present at 47-77 and 108-111 cm.
4					SS	Section 4, 0-6 cm: Bioturbated massive muddy diatom ooze; lamination apparent at 7 cm and well developed to 40 cm. 40-99 cm: Mottled 'bioturbate' texture; original lamination apparent but partially destroyed. 99-105 cm: Laminated mud-bearing diatom ooze. 105-150 cm: Mottled bioturbate texture with clearly-defined burrows (1 cm wide).
5					SS	Section 5, 8 cm: Ice rafted clast 1 cm in size (working half). 0-32 cm: Mottled bioturbate texture in muddy diatom ooze . 32-64 cm: Well laminated (gray/orange colored) with open burrows. 64-150 cm: Mottled and bioturbated with open burrows at 15-25, 30, 55, and 95 cm.
6					SS	Section 6, 0-45 cm: Laminated (<1 cm) to thin-bedded (1-3 cm) mud-bearing diatom ooze with large (2 cm) oval burrows. 45-62 cm: Burrow mottled interval where primary lamination is only partially preserved. 62-76 cm: Well preserved laminated ooze. 76-104 cm: Laminations partially destroyed by bioturbation. 104-150 cm: Well preserved laminations with degree of bioturbation increasing down core. Dominant color is olive gray (5Y 4/2).
7					SS	Section 7, 0-3 cm: Well preserved laminations. 3-10 cm: Bioturbated interval. 10-29 cm: Well laminated ooze. 29-37 cm: Burrowed mottled texture. 37-46 cm: Well preserved laminated ooze. 46-60 cm: Mottled bioturbate texture.

CORE DESCRIPTIONS
VISUAL CORE DESCRIPTIONS, SITE 1098

3

Core Image

Site 1098 Hole A Core 3H					Cored 11.4-20.9 mbsf		
METERS	SECTION	GRAPHIC	LITH.	BIOTURB.	DISTURB.	SAMPLE	DESCRIPTION
1							MUD-BEARING DIATOM OOZE and MUDDY DIATOM OOZE
1						SS	Section 1, 0-68 cm: Extensively disturbed by drilling. 68-150 cm: Dominantly massive muddy diatom ooze with mottling except for 75-90 cm and 110-120 cm where there is laminated mud-bearing diatom ooze. Color is dominantly olive gray (5Y 4/2).
2						SS	Section 2, 0-150 cm: Core splitter mark throughout entire section. Laminated mud-bearing diatom ooze with weakly defined laminae, except for sharp orange colored laminae at 20-23 cm and 130-133 cm.
3						SS	Section 3, 0-15 cm: Large (1.5 cm diameter) burrows in laminated ooze. 15-57 cm: Poorly-defined (bioturbated) laminations. 57-107 cm: Massive mottled interval where lamination has been partially to completely destroyed. 107-150 cm: Poorly-defined laminations blurred and mottled by bioturbation.
4						SS	Section 4, 0-150 cm: Alternating zones of laminated mud-bearing diatom ooze and bioturbated mottled intervals where primary lamination has been lost. Burrows occur at 8, 26-30, 64-70, 87-90, 97, 103, 115 and 122 cm. Laminated intervals occur at 30-43, 74-87, 105-110 cm.
5						SS	Section 5, 0-150 cm: Alternations of laminated and bioturbated mottled mud-bearing diatom ooze. Prominent orange/brown couplet at 34-35 cm. Laminated intervals occur at 30-60, 75-84, 108-114, 120-121, 140-141 cm.
6						SS	Section 6, 0-150 cm: Bioturbated and mottled mud-bearing diatom ooze. Primary lamination is only partially preserved. Sharply defined laminations occur at 28-37, 48-51, 75-81, 110-115, 138-141 cm.
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CORE DESCRIPTIONS
VISUAL CORE DESCRIPTIONS, SITE 1098

4

Core Image

Site 1098 Hole A Core 4H					Cored 20.9-30.4 mbsf	
METERS	SECTION	GRAPHIC	LITH.	BIOTURB.	SAMPLE	DESCRIPTION
			STRUCTURE	DISTURB.		
1					— SS	MUD-BEARING AND MUDDY DIATOM OOZE with DIATOM CLAYEY MUD Section 1, 0-73 cm: Massive mud-bearing diatom ooze disturbed by core-splitting, but apparently unstructured. Color is dominantly olive gray (8Y 5/1). 73-150 cm: Weakly laminated interval disturbed by bioturbation.
2					— SS	Section 2, 0-17 cm: Laminated mud-bearing diatom ooze. 17-56 cm: Deformed laminations that are possibly slumped. 56-79 cm: Laminated mud-bearing diatom ooze. 79-150 cm: Remarkably homogenous massive muddy diatom ooze that is not bioturbated.
3					— SS	Section 3 and 4: Non-bioturbated massive muddy diatom ooze.
4					— SS	
5					— SS	
6					— SS	Section 5, 18 cm: Shell fragments and complete pelecypod. 0-27 cm: Parallel laminated diatom clayey mud with base at 25 cm; associated with slumped intervals above and below. 30-40 cm: Large rip-up clast of diatom ooze 40-79 cm: Homogenous muddy diatom ooze similar to that facies seen in Sections 2 and 3 above. Possible turbidite with rip up clasts of diatom(ite)? at 65 cm. 79-94 cm: Thick bed of homogenous muddy diatom ooze as above. 94-150 cm: Mottled, bioturbated mud-bearing diatom ooze.
7					— SS	Section 6, 0-70 cm: Slumped laminations and burrowed. 70-150 cm: Laminated mud-bearing diatom ooze.
8					— SS	
9					— SS	Section 7, 0-23 cm: Mottled bioturbated diatomaceous ooze. 23-40 cm: Laminations partially preserved, but with clear bioturbation. 40-55 cm: Massive, unstructured diatomaceous ooze (turbidite?).
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CORE DESCRIPTIONS
VISUAL CORE DESCRIPTIONS, SITE 1098

5

Core Image

Site 1098 Hole A Core 5H					Cored 30.4-39.9 mbsf		
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	DISTURB.	SAMPLE	DESCRIPTION
1					●●●	—SS	MUD-BEARING DIATOM OOZE and MUDDY DIATOM OOZE Section 1, 0-20 cm: Core disturbed by drilling. 20-70 cm: Bioturbated green/olive and gray mottled mud-bearing diatom ooze. 52 cm: Pelycepod fragments. 70-150 cm: Strongly bioturbated mud-bearing diatom ooze with near complete loss of primary lamination.
2						—SS	Section 2, 0-150 cm: Bioturbated, mottled diatomaceous ooze with partial preservation of lamination. 97-116 and 129-135 cm: Well preserved, partially bioturbated diatomaceous ooze.
3						—SS	Section 3, 0-150 cm: Laminated (<1 cm) and thin (1-3 cm) to medium-bedded (3-10 cm) mud-bearing diatom ooze. Thicker beds at 30-60 and 130-150 cm appear graded. Remainder of core is bioturbated with partial preservation of lamination.
4						—SS	Section 4, 0-40 cm: Weakly laminated mud-bearing diatom ooze. 40-90 cm: Massive interval of muddy diatom ooze, dark greenish gray (5G 5/1) 90-123 cm: Weakly laminated mud-bearing diatom ooze. 123-150 cm: Weakly laminated and bioturbated mud-bearing diatom ooze.
5						—SS	Section 5, 0-118 cm: Bioturbated muddy diatom ooze.
6						—SS	Section 5, 118 cm to Section 6, 100 cm: Muddy diatom ooze with thin bedded to fine laminae of brown and orange diatom ooze. Color is predominantly greenish gray (5G 5/1). Orange/brown beds at Section 6, 1-3, 74-76, 81-86 cm. Two small ice rafted clasts (<1 cm) at 41-42 cm. Normal graded, and very thin bed (<0.5 cm) of sand at 81 cm. Section is bioturbated from 3-73 cm.
7					●●●	—SS	Section 7, 0-60 cm: Muddy diatom ooze, dark greenish gray (5G 5/1). Bioturbated throughout with very faint dark laminations at 7-8 and 35-36 cm. Mottled throughout. Small ice rafted clast 0.5 cm in size at 31 cm. Some gas expansion.
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Core Image

Site 1098 Hole A Core 6H					Cored 39.9-45.4 mbsf	
METERS SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	DISTURB.	SAMPLE	DESCRIPTION
1	1				SS	DIATOM CLAYEY SILT and SILTY CLAY with DIATOM OOZE Section 1, 0 cm to Section 3, 43 cm: Laminated alternations of grayish green (5Y 4/3) diatom silty clay and gray (5Y 4/1) diatom silty clay, in beds 0.3 cm to 6 cm thick. Some beds are graded, probably indicating differential settling in the water column. Bioturbated. A mud intraclass at Section 1, 130 cm. Section 1, 40% of laminae are grayish green; Section 2, 60% of laminae are grayish green; Section 3, 0-43 cm, 40% of laminae are grayish green. Ice rafted pebbles at: Section 1, 48 cm, 92 cm; Section 2, 81 cm.
2	2				SS	
3	3				SS	Section 3, 43-110 cm: Diatom-bearing silty clay, with laminae of diatom ooze at 54, 66, and 90 cm. A diatom-bearing aragonite silt layer at 110 cm. Ice rafted debris at 72 cm. Consolidated mud clasts at 64, 122, and 132 cm.
4	4				SS	Section 3, 110 cm to Section 4, 64 cm and Core Catcher: Silty clay, gray (5Y 5/1) and interbedded coarse sand to silt graded beds. Graded beds at Section 3, 140-148 cm; Section 4, 3-8, 15-22, 30-31, and 33-35 cm. Bottom disturbed by coring, but probably the same lithology as silty clay with graded beds.
5	5				SS	

CORE DESCRIPTIONS
VISUAL CORE DESCRIPTIONS, SITE 1098

7

Core Image

Site 1098 Hole A Core 7H						Cored 45.4-45.9 mbsf	
METERS	SECTION	GRAPHIC	LITH.	BIOTURB.	DISTURB.	SAMPLE	DESCRIPTION
					SS		DIATOM CLAYEY SILT Diatom clayey silt, completely homogenized by drilling; dark gray (5Y 4/1).

CORE DESCRIPTIONS
VISUAL CORE DESCRIPTIONS, SITE 1098

Core Image

Site 1098 Hole B Core 1H					Cored 0.0-6.0 mbsf		
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	DISTURB.	SAMPLE	DESCRIPTION
1					SS		MUDDY DIATOM OOZE and MUD-BEARING DIATOM OOZE
1					SS		Sections 1-4 and CC: Core consists of alternating muddy diatom ooze and laminated, variegated mud-bearing diatom ooze. Muddy diatom ooze, olive (5Y 4/3), intensely bioturbated obliterating any primary structures, occurs in Section 1, 0-12 and 42-124 cm; Section 1, 145 cm to Section 2, 52 cm; Section 2, 76-127 cm; Section 3, 8-26, 33-58, and 92-139 cm; Section 4, 20-73 and 103 cm to base of CC. The uppermost few cm of each massive interval is slightly grayer in color, and gray burrow mottles occur within most intervals. The diatoms are very well preserved and the flora is diverse, including <i>T. antarctica</i> .
2					SS		
3					SS		Laminated mud-bearing diatom ooze consists of laminae 5-20 mm thick with fuzzy tops and bases. Minor to moderate bioturbation disrupts some laminae. Burrows are of Planolites type. Colors include olive (5Y 4/3, 5Y 5/3), olive gray (5Y 4/2), dark gray (5Y 4/1, mainly in Section 1, 12-42 cm), and dark brown (10YR 3/3). Diatom preservation is excellent. The dark brown laminae are Chaetoceros spore oozes. Many of the laminae are rich in <i>Corethron criophilum</i> . There is no consistent color sequence within the laminated intervals.
4					SS		A very long vertical open burrow, 6 mm in diameter, is present in Section 2, 13-65 cm and Section 3, 110-142 cm.
5					SS		
4					SS		

CORE DESCRIPTIONS
VISUAL CORE DESCRIPTIONS, SITE 1098

Core Image

Site 1098 Hole B Core 2H					Cored 6.0-15.5 mbsf		
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	DISTURB.	SAMPLE	DESCRIPTION
1						— SS	MUDDY DIATOM OOZE and DIATOM OOZE Sections 1-7 and CC: The entire core consists of alternating muddy diatom ooze and laminated diatom ooze. Muddy diatom ooze, olive (5Y 4/2), bioturbated and burrowed intervals occur in Section 1, 0-23, 74-114, and 116-137 cm; Section 2, 0-34, 45-64, and 103-150 cm; Section 3, 0-9, 80-96, and 120-132 cm; Section 4, 13-16, 25-35, 62-68, and 133-150 cm; Section 5, 0-110 cm; Section 6, 41-70 cm. These units are darker olive (5Y 4/3) at the top and lighter olive at the bottom. There are both well developed and diffuse laminae mostly of diatom ooze. A dark yellowish brown diatomaceous silt lamina in Section 1, 80 cm. Section 2, 135 cm: A well preserved sponge occurs within a diatom ooze lamina with 3% sponge spicules. Section 3, 43 cm: There is a light colored, fluffy, diatom ooze laminae, 2 cm thick containing mostly <i>Corethron criophilum</i> . A basalt dropstone 0.5 cm in diameter occurs at 84 cm.
2						— SS	
3						— SS	
4						— SS	
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6						— SS	
7						— SS	
8						— SS	
9						— SS	
7						— SS	

Core Image

Site 1098 Hole B Core 3H					Core 15.5-25.0 mbsf	
METERS	SECTION	GRAPHIC	LITH.	BIOTURB.	SAMPLE	DESCRIPTION
			STRUCTURE	DISTURB.		
1						MUD-BEARING DIATOM OOZE and MUDDY DIATOM OOZE Section 1, 0-40 cm: Disturbed by coring. Muddy diatom ooze.
1.0					SS	
2					SS	Section 1, 40 cm to Section 6, 40 cm: Alternating muddy diatom ooze and laminated diatom ooze. Muddy diatom ooze, olive (5Y 4/4), bioturbated and burrowed. Some subvertical open burrows crossing long distances (2-3 mm in diameter). Locally the sediments are mottled showing evidence of intense bioturbation with loss of original bedding. The laminae are dark brown (10YR 4/3) at the top, while downcore there are very dark gray (10YR 3/1) laminae.
2.0					SS	Several beds may be identified based on the abundance of laminae. Poorly laminated beds occur at Section 2, 108-125 cm; Section 3, 57-70 cm; Section 4, 46-70 and 100-150 cm. Lamina abundance in the laminated beds varies between 10-30%.
3					SS	
3.0					SS	
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4.0						
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5.0						
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6.0						
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7.0						
8						Section 6, 40 cm to bottom of Core Catcher: Muddy diatom ooze, olive (5Y 4/4) mud. Massive, non-bioturbated. A thin lamina occurs at Section 6, 75 cm.
8.0						
9						
7					SS	

Core Image

Site 1098 Hole B Core 4H					Cored 25.0-34.5 mbsf		
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	DISTURB.	SAMPLE	DESCRIPTION
1						— SS	DIATOM SILTY CLAY, MUDDY DIATOM OOZE and DIATOM-BEARING CLAYEY SILT
1.1						— SS	Section 1, 0 cm to Section 2, 45 cm: Diatom silty clay, olive gray (5Y 5/2), grading down to diatom-bearing clayey silt. Section 2, 25-45 cm graded muddy medium sand, from 30-32 cm is aragonite-cemented, 32-45 cm shows inverse grading. Tiny mollusc fragments (1-2 mm) in Section 2, 15-24 cm.
2						— SS	Section 2, 45 cm to Section 3, 39 cm: Muddy diatom ooze, variably bioturbated as shown, fuzzy lamination has mainly been destroyed by burrowing. Colors include olive (5Y 4/3), olive gray (5Y 4/2), dark grayish brown (2.5Y 4/2), and at the top of Section 3, dark greenish gray (5GY 4/1). Section 2, 45-77 cm has a 3 cm graded silty ooze layer at the base. In Section 2, 77-131 cm, lamination and browner colors increase downwards.
3						— SS	Section 3, 39 cm to Section 4, 30 cm: Muddy diatom ooze, variegated and mottled. Main colors olive (5Y 4/3), olive gray (5Y 4/2), and dark olive gray (5Y 3/2). Laminae of olive brown (2.5Y 4/4) in Section 3, 50, 72, 110, and 150 cm. Dark olive gray ooze is rich in <i>Eucampia antarctica</i> , olive and olive gray layers have a diverse assemblage.
4						— SS	Section 4, 30-103 cm: Diatom clayey silt, structureless, olive gray (5Y 4/2).
5						— SS	Section 4, 103 cm to Section 5, 4 cm: Graded silt to sand. Laminated diatom silty mud graded down to fine sand, then coarse and very coarse muddy sand with small mollusc fragments. Complete bivalve at 144 cm in working half. Mud clast in Section 4, 131-132 cm.
6						— SS	Section 5, 4 cm to Section 6, 48 cm: Diatom clayey silt, olive gray (5Y 4/2) and dark olive gray (5Y 3/2). Burrow mottled, locally laminated; burrows mostly parallel to bedding; large circular to oval burrows in Section 5, 31-50 cm. Laminae of dark grayish brown (2.5Y 4/2) Chaetoceros spore ooze in Section 5, 87, 89, 90, and 117 cm.
7						— SS	Section 6, 48 cm to Section 7, 10 cm: Muddy diatom ooze, olive gray (5Y 4/2), in massive burrowed layers about 8 cm thick. Separated by groups of laminae (2-8 mm thick) of mud-bearing Chaetoceros spore ooze, dark grayish brown (2.5Y 4/2) at 48, 64-70, 78-81, 91, and 103 cm to bottom. The laminae show only minor bioturbation and some are not burrowed at all. 2 cm basalt pebble, surrounded, in Section 6, 88 cm.
8						— SS	Section 7, 10-39 cm: Diatom clayey silt, olive gray (5Y 4/2), faint burrow mottling.
9							

Core Image

Site 1098 Hole B Core 5H					Cored 34.5-43.0 mbsf		
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	DISTURB.	SAMPLE	DESCRIPTION
1							MUD-BEARING DIATOM OOZE and MUDDY DIATOM OOZE Section 1, 0-150 cm: Mottled, bioturbated mud-bearing diatom ooze with an ice rafted pebble (1 cm) at 83 cm. Color is olive (5Y 5/3).
2						SS	Section 2, 0-30 cm: Mottled bioturbated mud-bearing diatom ooze. Color is olive (5Y 5/3). 30-60 cm: Laminated mud-bearing diatom ooze. 60-150 cm: Mottled mud-bearing diatom ooze with an ice rafted pebble at 107 cm.
3							Section 3, 0-150 cm: Mottled and bioturbated mud-bearing diatom ooze with parallel laminae at 70-72 and 101-108 cm.
4						SS	Section 4, 0-38 cm: Mottled and bioturbated mud-bearing diatom ooze, with fine sand/silt lamina at 25 cm. 36-58 cm: Laminated mud-bearing diatom ooze. 58-150 cm: Mottled bioturbated muddy diatom ooze, with fault at 140 cm.
5							Section 5, 0-100 cm: Bioturbated and mottled muddy diatom ooze. 100-150 cm: Slump(?) at 100 cm with deformed laminae.
6							Section 6, 0-150 cm: Diatomaceous ooze, repetitively laminated throughout with alternations of color from orange brown (10YR 5/6) to greenish gray (5GY 6/1). Laminations are parallel and inclined. Shell fragments at 16 and 99 cm. Ice rafted pebble (1 cm) at 89 cm.
7						SS	Section 7 and Core Catcher: Repetitively laminated diatomaceous ooze with color banding from orange brown (10 YR 5/6) to greenish gray (5GY 6/1).
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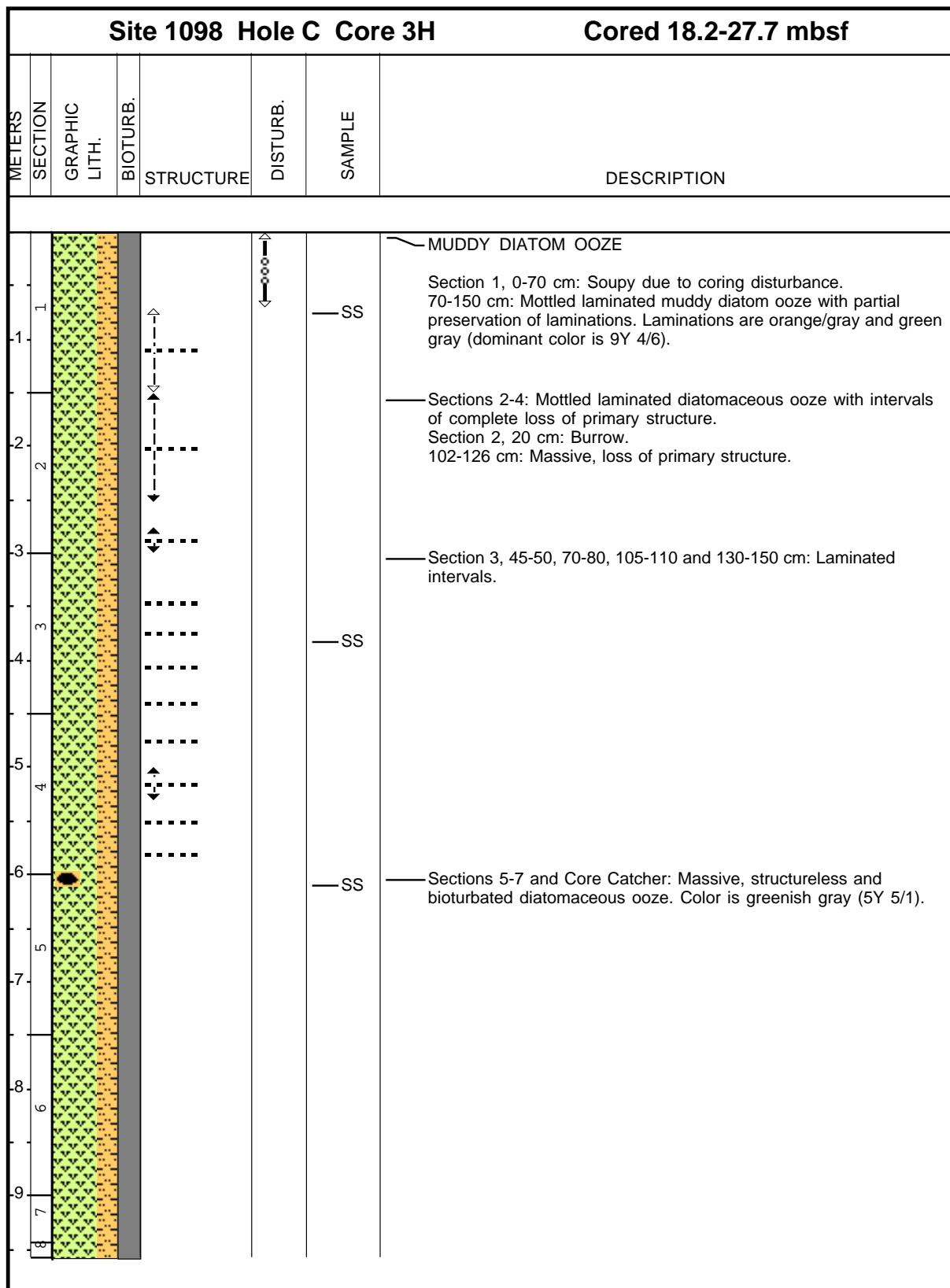
Core Image

Site 1098 Hole C Core 1H					Cored 0.0-8.7 mbsf		
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	DISTURB.	SAMPLE	DESCRIPTION
1							MUD-BEARING DIATOM OOZE and MUDDY DIATOM OOZE Section 1, 0-140 cm: Mottled bioturbated mud-bearing diatom ooze. Color is greenish gray (5GY 5/1). Prominent but blurred black laminae at 31 and 72 cm.
2						SS	Section 2, 0-73 and 90-150 cm: Burrowed mixed mud-bearing and muddy diatom ooze. Color is greenish gray (5GY 5/1). 73-90 cm: Better definition of laminae with prominent dark lamina at 92 and 123 cm.
3						SS	Section 3, 0-28: Laminated mud-bearing diatom ooze with a void from 11-13 cm. 30-105 cm: Blurred, bioturbated mud-bearing diatom ooze with the primary lamination only partially preserved. 105-150 cm: Homogenized, burrowed ooze with a burrow from 110-118 cm.
4						SS	Section 4, 0-34 cm: Blurred bioturbated laminae. 34-86 cm: Homogenized and bioturbated mud-bearing diatom ooze with a burrow at 40 cm. 86-150 cm: Laminated mud-bearing diatom ooze, with increasing homogenization down core and a burrow from 100-120 cm.
5						SS	Section 5, 0-150 cm: Extensively bioturbated throughout section with blurred laminae at 18-30 and 70-75. Several open burrows occur at 46-62 cm.
6						SS	Section 6, 0-92 cm: Muddy diatom ooze, heavily bioturbated from 0-10, 40-70, and 80-92 cm. Color banded at 20-32 and 72 cm, from brownish dark gray to green gray (5Y 4/1-5/1).
8							

Core Image

Site 1098 Hole C Core 2H					Cored 8.7-18.2 mbsf		
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	DISTURB.	SAMPLE	DESCRIPTION
1							MUDDY DIATOM OOZE Section 1, 0-70 cm: Soupy due to drilling disturbance. 0-150 cm: Muddy diatom ooze, intensively bioturbated and color-banded. Color changes from brown to dark gray and greenish gray (predominantly 5Y 5/1). Color banding appears to be related to biosiliceous composition.
2							
3							Sections 2-7 and Core Catcher: Diatomaceous mud and ooze, bioturbated throughout with color-banding from predominantly greenish gray (5Y 5/1) to orange/brown diffuse lamina. Large open burrows occur sporadically throughout core.
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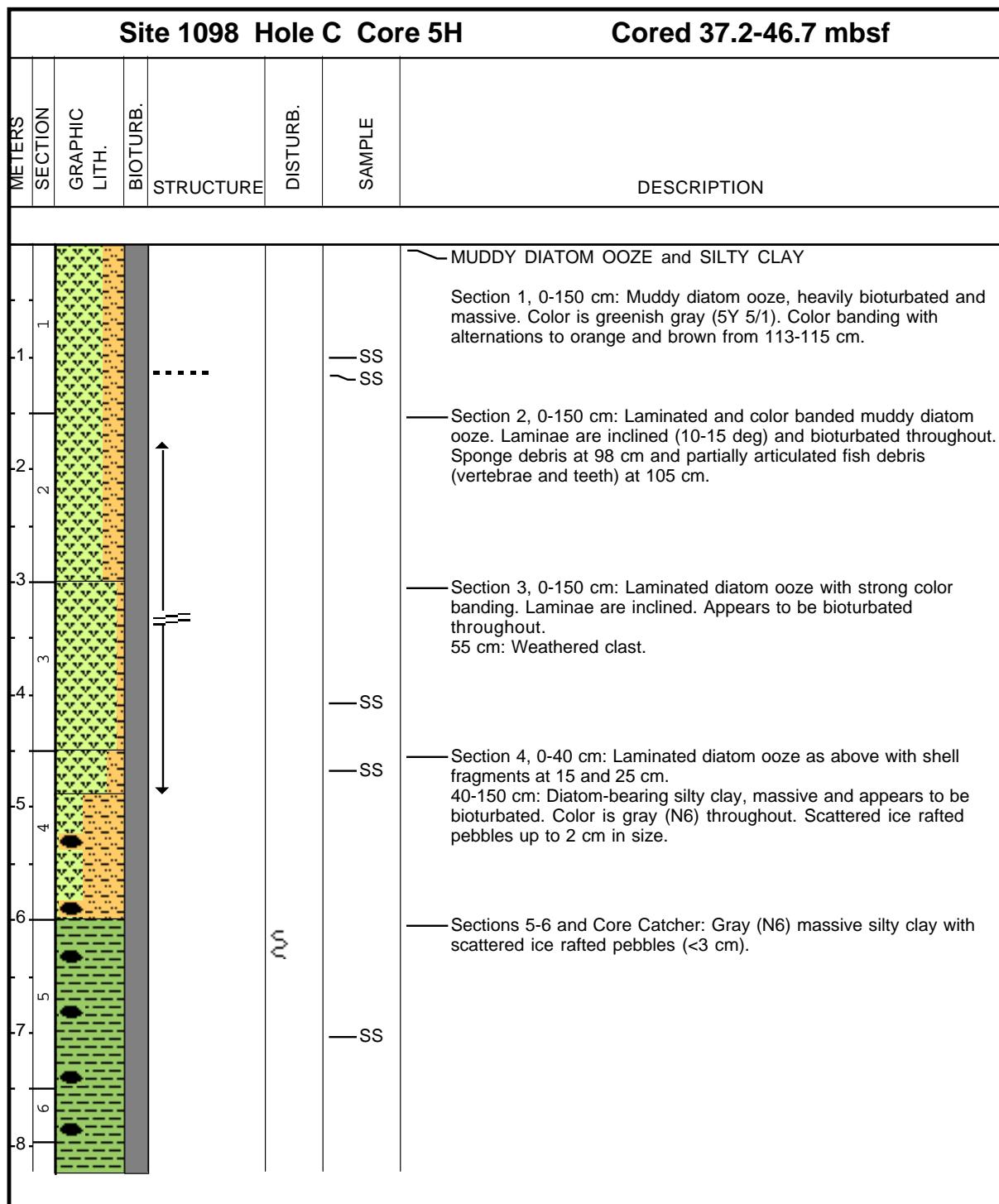
Core Image



Core Image

Site 1098 Hole C Core 4H					Cored 27.7-37.2 mbsf		
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	DISTURB.	SAMPLE	DESCRIPTION
1							MUDDY DIATOM OOZE and MUD-BEARING DIATOM OOZE Section 1, 0-96 cm: Mottled, bioturbated muddy diatom ooze with distinct oval burrows (up to 1.5 cm). 96-145 cm: Partially bioturbated laminations with oval burrows.
2						SS	Section 2, 0-60 cm: Bioturbated mottled muddy diatom ooze, with only partial preservation of laminations. 40-60, 80-90 cm: Dark heavily bioturbated intervals. Likely dark (anoxic?) lamina that has been dispersed by burrowing organisms. 90-145 cm: Homogenous top of large olive green bed (turbidite) with base in Section 3.
3						SS	Section 3, 0-60 cm: Homogenous large bed with sharp base defined by thin medium sand laminae. 60-145 cm: Mottled bioturbated mud-bearing diatom ooze with better preserved laminations at 105 and 132 cm. Sand-filled burrows at 125 cm. Laminations are inclined (slumped?).
4						SS	Section 4, 0-145 cm: All laminations are inclined, suggesting slumping. Mottled laminations with several massive sections at 23-38, 96-100, and 124-145 cm, suggesting a sediment gravity flow as above. Small ice rafted pebble at 69 cm.
5						SS	Sections 5-7 and Core Catcher: Bioturbated muddy diatom ooze with color banding. Dominant color is greenish gray (5Y 4-5/1). Scattered burrows.
6							Section 6, 65 and 85 cm: Shell fragments.
7							

Core Image



CORE DESCRIPTIONS
SMEAR SLIDES, SITE 1098

Leg	Site	Hole	Core Type	Section	Interval (cm)	Depth (mbsf)	Depth (mcd)	Size		Composition - Siliciclastic										Composition - Biogenic						Sediment or Rock Name											
								Major lithology (1)	Minor lithology (2)	Sand	Silt	sum {sand+silt}	Clay	sum {sand+silt+clay}	Quartz	Feldspar	Clay (too fine to identify)	Mica	Glaucite	Rock Fragments	Volcanic Glass	Acc. Minerals	Carbonate	Opaque	Framboids/micronodules	Other	Terrigenous (tot silic-clay counts)	Total clay + siliciclastic	Nannofossils	Foraminifers	Diatoms	Radiolarians	Coccolith	Silicoflagellates	Sponge Spicules	Shell debris	unidentified/other
178	1098	A 1	H 1	1	15	0.15	wlf	1		5	70	75	25	100	12.0	4.0	2.0										2.0	55.0	0.5	4.0	10.0	2.0	73	silty muddy diatom ooze			
178	1098	A 1	H 1	40	0.4		wlf	2		15	65	80	20	100	8.0	2.0	0.5										2.0	60.0		2.0	6.0	9.0	79	silty muddy diatom ooze			
178	1098	A 1	H 1	60	0.6		wlf	1		6	64	70	30	100	15.0	7.0	0.5										2.0	50.0	0.5	2.0	10.0	3.0	67	silty muddy siliceous ooze			
178	1098	A 1	H 2	29	1.29		wlf	1		7	68	75	25	100	16.0	7.0	0.5									1.0	45.0	0.5	3.0	8.0	10.0	67	silty muddy siliceous ooze				
178	1098	A 1	H 2	42	1.42		wlf	2		10	85	95	5	100	3.0	1.0	0.5									1.0	5.0	33	3.0	9	85.0	1.0	5.0	91	silty diatom ooze		
178	1098	A 2	H 1	70	2.6		wlf	2		5	90	95	5	100	3.0	2.0	0.5									5.0	1.3	13	70.0	2.0	10.0	5.0	87	silty diatom ooze			
178	1098	A 2	H 2	10	3.5		wlf	1		5	75	80	20	100	11.0	3.0	0.5									5.0	27	27	3.0	58.0	10.0	2.0	73	silty muddy diatom ooze			
178	1098	A 2	H 2	121	4.61		wlf	1		8	77	85	15	100	8.0	2.0	0.5									3.0	17	17	3.0	70.0	3.0	4.0	3.0	83	silty muddy diatom ooze		
178	1098	A 2	H 3	30	5.2		wlf	1		7	78	85	25	110	10.0	3.0	1.0									5.0	21	21	2.0	60.0	2.0	10.0	4.0	78	silty muddy diatom ooze		
178	1098	A 2	H 4	65	7.05		wlf	1		5	75	80	30	110	13.0	3.0	2.0									3.0	27	29	2.0	53.0	2.0	9.0	4.0	71	silty muddy diatom ooze		
178	1098	A 2	H 5	53	8.43		wlf	2		8	87	95	5	100	2.0	1.0	1.0									3.0	8	9	1.0	84.0	0.5	2.0	91	silty diatom ooze			
178	1098	A 2	H 6	82	10.22		wlf	1		4	76	80	20	100	12.0	5.0	1.0									2.0	24	25	2.0	60.0	10.0	1.0	75	silty muddy diatom ooze			
178	1098	A 2	H 6	146	10.86		wlf	1		2	68	70	30	100	8.0	3.0	3.0									4.0	19	22	1.0	60.0	3.0	10.0	14.0	88	silty muddy diatom ooze		
178	1098	A 3	H 1	94	12.34		wlf	1		5	75	80	20	100	10.0	5.0	4.0									2.0	23	27	2.0	55.0	3.0	10.0	3.0	73	silty muddy diatom ooze		
178	1098	A 3	H 2	22	13.12		wlf	2		3	92	95	5	100	3.0	2.0	1.0									1.0	9	10	80.0		10.0		90	silty diatom ooze			
178	1098	A 3	H 3	98	15.38		wlf	1		8	77	85	15	100	8.0	3.0	2.0									5.0	20	22	1.0	65.0	4.0	8.0		78	silty muddy diatom ooze		
178	1098	A 3	H 4	103	16.93		wlf	1		10	80	90	10	100	10.0	4.0	2.0									6.0	29	31	2.0	51.0	4.0	10.0	2.0	69	silty muddy diatom ooze		
178	1098	A 3	H 5	6	17.46		wlf	1		7	68	75	25	100	10.0	3.0	1.0									3.0	24	25	2.0	56.0	4.0	10.0	3.0	75	silty muddy diatom ooze		
178	1098	A 3	H 6	117	20.07		wlf	1		5	70	75	25	100	8.0	4.0	2.0									1.0	21	23	1.0	58.0	4.0	12.0	4.0	77	silty muddy diatom ooze		
178	1098	A 4	H 1	80	21.7		wlf	1		2	88	90	10	100	7.0	3.0	2.0									6.0	20	22	3.0	60.0	2.0	12.0	4.0	81	silty muddy diatom ooze		
178	1098	A 4	H 2	100	23.4		wlf	1		4	86	90	10	100	6.0	3.0	1.0									4.0	7.0	24	2.0	57.0	5.0	12.0		75	silty muddy diatom ooze		
178	1098	A 4	H 3	80	24.7		wlf	1		2	88	90	10	100	10.0	3.0	1.0									5.0	20	28	1.0	59.0	5.0	12.0	5.0	72	silty muddy diatom ooze		
178	1098	A 4	H 4	90	26.3		wlf	1		2	88	90	10	100	7.0	4.0	2.0									4.0	1.0	21	1.0	57.0	3.0	12.0	4.0	77	silty muddy diatom ooze		
178	1098	A 4	H 5	26	27.16		wlf	2		12	48	60	40	100	7.0	3.0	0.5									5.0	60	60	2.0	20.0	12.0	8.0	40		diatom-bearing silty mud		
178	1098	A 4	H 5	37	27.27		wlf	2		10	15	25	75	100	4.0	2.0	0.0									80.0		4.0	90	90	7.0		2.0	1.0	10	clay	
178	1098	A 4	H 5	138	28.28		wlf	1		5	85	90	10	100	4.0	2.0	1.0									3.0	2.0	19	20	2.0	66.0	4.0	12.0	6.0	80	silty muddy diatom ooze	
178	1098	A 4	H 6	73	29.13		wlf	1		3	87	90	10	100	6.0	3.0	0.0									3.0	1.0	18	18	2.0	54.0	6.0	10.0	10.0	82	silty muddy diatom ooze	
178	1098	A 4	H 7	30	30.2		wlf	2		5	85	90	10	100	7.0	4.0	2.0									2.0	6.0	23	50.0	3.0	12.0	10.0	75	silty diatom ooze			
178	1098	A 5	H 1	76	31.16		wlf	1		6	64	70	30	100	5.0	3.0	2.0									4.0	2.0	18	20	58.0	3.0	14.0	5.0	80	silty muddy diatom ooze		
178	1098	A 5	H 2	103	32.93		wlf	2		5	85	90	10	100	3.0	2.0	3.0									3.0	1.0	12	15	71.0	1.0	8.0	5.0	85	silty diatom ooze		
178	1098	A 5	H 3	13	33.53		wlf	1		2	78	80	20	100	3.0	1.0	2.0									2.0	5.0	13	15	61.0	4.0	15.0	5.0	85	silty mud bearing diatom ooze		
178	1098	A 5	H 3	140	34.8		wlf	2		15	80	95	5	100	2.0	3.0	0.0									5.0	64.0	10.0	8.5	85	10.0	5.0	1.0	15	diatom-bearing silty mud		
178	1098	A 5	H 4	80	35.7		wlf	1		4	81	85	15	100	10.0	3.0	3.0	2.0								3.0	3.0	6.0	27	30	51.0	4.0	10.0	5.0	70	silty muddy diatom ooze	
178	1098	A 5	H 5	48	36.88		wlf	1		4	56	60	40	100	12.0	8.0	7.0									8.0	1.0	25	35	33.0	2.0	10.0	10.0	55	diatom-bearing silty mud		
178	1098	A 5	H 7	35	39.25		wlf	2		8	82	90	10	100	10.0	4.0	10.0	2.0								1.0	8.0	25	35	42.0	2.0	10.0	10.0	65	silt bearing diatom ooze		
178	1098	A 6	H 1	36	40.26		oe	1		5	65	70	30	100	5.0	2.0	53.0									0.5	7	60	40.0					40	Diatomaceous silty clay		
178	1098	A 6	H 1	38	40.28		oe	1		1	30	31	69	100	10.0	2.0	10.0	1.0	35.0								1.0	1.0	50	60	40.0					40	Diatomaceous silty clay
178	1098	A 6	H 3	11	43.01		cjp	2		1	94	95	5	100	10.0											80.0									10	diatom-bearing silt	
178	1098	A 6	H 3	24	43.14		oe	1		0	40	40	60	100	5.0	2.0	53.0	2.0									3.0	1.0	12	65	35.0					35	Diatomaceous silty clay
178	1098	A 6	H 3	45	43.35		oe	1		3	40	43	57	100	15.0	2.0		3.0	75.0									0.5	7	60	40.0					25.0	Diatomaceous silty clay
178	1098	A 6	H 3	109	43.99		cjp	2		1	94	95	5	100	2.0		5.0									2.0	0.5	4	9	91.0	0.5				91	Diatom ooze	
178	1098	A 6	H 4	18	44.58		oe	1		20	30	50	50	100</																							

**CORE DESCRIPTIONS
SMEAR SLIDES, SITE 1098**

**CORE DESCRIPTIONS
SMEAR SLIDES, SITE 1098**

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