

Site 1057 Hole A Core 1H

Cored 0.0-7.5 mbsf

1057A-1H

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
0	1								<p><b>NANNOFOSSIL CLAY</b></p> <p>General Description:                      This core contains reddish brown (5YR 5/4) to olive green (5Y 6/1) NANNOFOSSIL CLAY with varying proportions of clay, nannofossils, accessory foraminifers, diatoms, and sponge spicules. Bioturbation intensity is variable but generally low. Greenish to light brown color banding is pervasive. In the top two sections reddish-colored intervals are observed. Distinctive coarser silty layers are present in Sections 3 and 4 with sharp contacts with the adjacent horizons.</p>
1	2						SS	GY	
2	3						SS	BR	
3	4							rd BR	
4	5							br GY	
5	6						IW	gn GY	
6	7							lt br GY	
7	8						SS	lt ol GY lt br GY	
8	9						PAL		

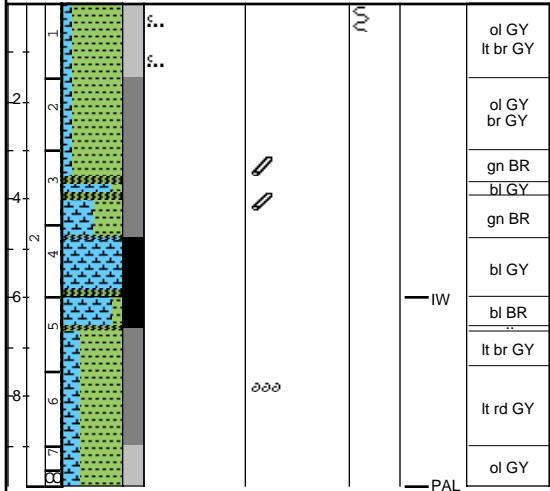


Site 1057 Hole A Core 2H

Cored 7.5-17.0 mbsf

1057A-2H

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
0									<p><b>NANNOFOSSIL CLAY and NANNOFOSSIL OOZE</b></p> <p>General Description:                      This core contains olive gray (5Y 6/1) to brownish gray (10YR 5/2) NANNOFOSSIL CLAY or CLAY WITH NANNOFOSSILS down to 60 cm in Section 3 and below 40 cm in Section 5. The interval in between is dominated by a light greenish to bluish gray NANNOFOSSIL OOZE or CLAYEY NANNOFOSSIL OOZE with shorter intervals of NANNOFOSSIL CLAY. The transition between lithotypes is generally characterized by an interval of moderately to heavily bioturbated mixed sediment.</p>
1								ol GY lt br GY	
2								ol GY br GY	
3								gn BR	
4								bl GY	
5								gn BR	
6								bl GY	
7								bl BR	
8								lt br GY	
9								lt rd GY	
10								ol GY	



Site 1057 Hole A Core 3H

Cored 17.0-26.5 mbsf

1057A-3H

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
1									<p><b>NANNOFOSSIL-CLAY MIXED SEDIMENT</b></p> <p>General Description:                      This core is dominated by an even, greenish gray (5GY 6/1) NANNOFOSSIL-CLAY MIXED SEDIMENT. Silt content increases at various intervals, especially below Section 4. Coarsening occurs with both sharp, scoured upper/lower contacts or with gradational boundaries and does not extend over more than a few centimeters. Pyritization of burrow fills is common, particularly below Section 3. Faint to strong color-banding of diagenetic origin is pervasive throughout most of the core.</p>
2							gn GY		
3							SS		
4							lt gn GY		
5							gn GY		
6							lt gn GY		
7							lt ol GY		
8							SS		
9							IW		
10							lt bl GY		
							mdk gn GY		
							gn GY		
							PAL		

Site 1057 Hole A Core 4H

Cored 26.5-36.0 mbsf

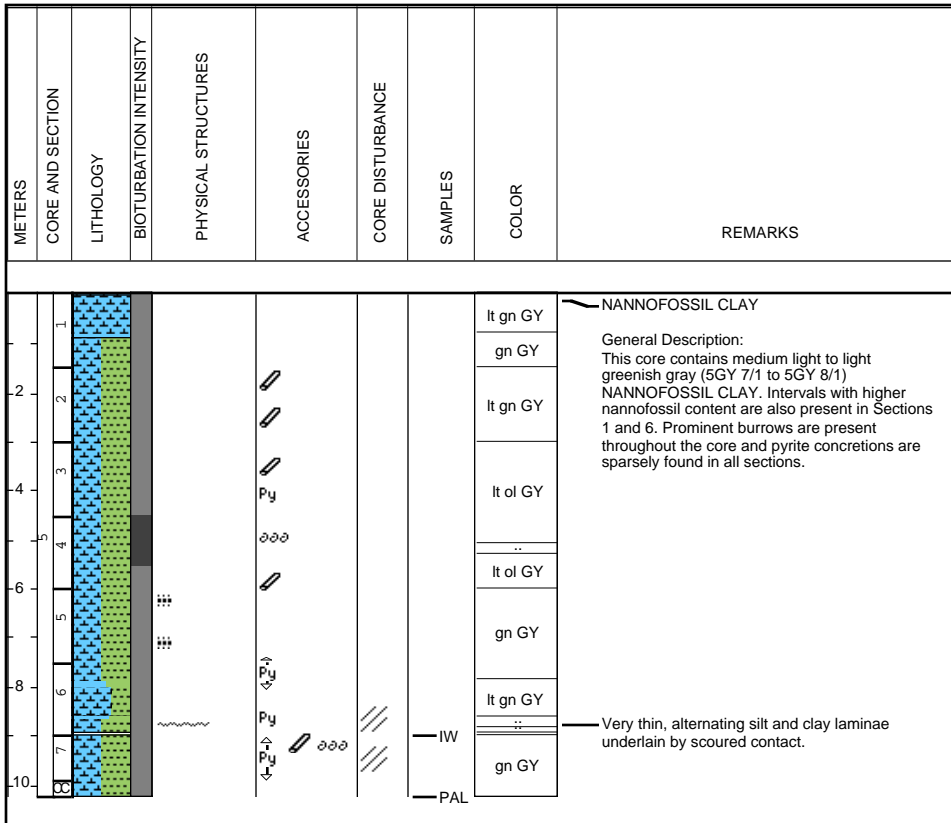
1057A-4H

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
0	1							gn GY	<p>CLAY WITH NANNOFOSSILS AND SILT and CLAYEY NANNOFOSSIL OOZE</p> <p>General Description:                      Sections 1, 2, and 7 contain medium light to light greenish gray (5GY 7/1 to 5GY 8/1) NANNOFOSSIL-CLAY MIXED SEDIMENT and CLAYEY NANNOFOSSIL OOZE. The intervening sections consist of greenish gray (5GY 6/1) CLAY WITH NANNOFOSSILS AND SILT. Color banding of diagenetic origin in various shades of green and light browns is observed throughout the core. Iron sulfide concentrations are present in burrow fills, especially below Section 4.</p>
0.2	2							lt gn GY	
0.4	3								
0.6	4							mt gn GY	
0.8	5								
1.0	6								
1.2	7								
1.4	8								
1.6								gn GY	
1.8									
2.0								mt gn GY	
2.2									
2.4									
2.6									
2.8									
3.0									
3.2									
3.4									
3.6									
3.8									
4.0									
4.2									
4.4									
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7.0									
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8.6									
8.8									
9.0									
9.2									
9.4									
9.6									
9.8									
10.0									

Site 1057 Hole A Core 5H

Cored 36.0-45.5 mbsf

1057A-5H



Site 1057 Hole A Core 6H

Cored 45.5-55.0 mbsf

1057A-6H

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
1									<p>NANNOFOSSIL CLAY WITH SILT and NANNOFOSSIL-CLAY MIXED SEDIMENT</p> <p>General Description:                      This core contains greenish gray (5GY 6/1) NANNOFOSSIL CLAY WITH SILT and lighter greenish gray (5GY 7/1) NANNOFOSSIL-CLAY MIXED SEDIMENT. Frequent color changes are observed from Sections 4 to 8, suggestive of numerous changes in the proportions of the main sediment components. Some brief coarsening intervals are present in Sections 4 and 6. The silt layer in Section 4 is deformed and may be suggestive of a small slump, although it might just be a result of bioturbation processes or core disturbance. Sparse pyrite concretions are present especially below Section 3.</p>
2							gn GY		
3						SS			
4									
5					Py				
6					Py		gn GY lt gn GY		
7					Py	IW	gn GY lt gn GY		
8									
9									
10						PAL			

Site 1057 Hole A Core 7H

Cored 55.0-64.5 mbsf

1057A-7H

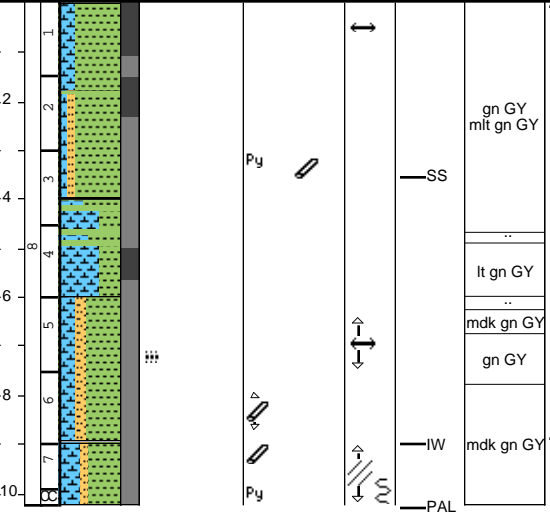
METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
0	1							gn GY vpl RD	<p><b>NANNOFOSSIL CLAY WITH SILT, NANNOFOSSIL-CLAY MIXED SEDIMENT, and CLAYEY NANNOFOSSIL OOZE</b></p> <p>General Description: This core contains greenish gray (5GY 6/1) NANNOFOSSIL CLAY WITH SILT down to Section 4. Section 5 contains a light greenish gray CLAYEY NANNOFOSSIL OOZE which grades into a NANNOFOSSIL-CLAY MIXED SEDIMENT down to Section 6 and then into a NANNOFOSSIL CLAY below. Intervals of coarse carbonate fragments or silt interbedded with clays are present with erosional basal contacts in Sections 3 and 5 (small turbidites?). Various other brief, gradually coarsening intervals are also present in the top 4 sections. Greenish, diagenetic horizontal color bands are pervasive throughout most sections.</p>
0.2	2							gn GY	
0.4	3							gn GY	
0.6	4							mdk gn GY	
0.8	5							lt gn GY	
1.0	6							gn GY	
1.2	7							dk gn GY	
10.0	8							IW PAL	

Site 1057 Hole A Core 8H

Cored 64.5-74.0 mbsf

1057A-8H

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
0	1								<p>NANNOFOSSIL CLAY and CLAYEY NANNOFOSSIL OOZE</p> <p>General Description: This core mainly contains greenish gray (5GY 6/1) NANNOFOSSIL CLAY with variable amounts of silt. A light greenish gray (5GY 8/1) CLAYEY NANNOFOSSIL OOZE occupies most of Section 4, and is characterized by intense bioturbation, whereas elsewhere in the core, bioturbation is moderate. Pyritized burrow fills are abundant in Section 8.</p> <p>Burrows filled with with coarse silt</p>
0.2	2							gn GY mit gn GY	
0.4	3							SS	
0.6	4							..	
0.8	5							lt gn GY	
1.0	6							..	
1.2	7							mdk gn GY	
1.4	8							gn GY	
1.6	9							mdk gn GY	
1.8	10							IW	
2.0								PAL	



Py

Py

Py

SS

..

lt gn GY

..

mdk gn GY

gn GY

mdk gn GY

IW

PAL

Py

Py

Py

SS

..

lt gn GY

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mdk gn GY

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Site 1057 Hole A Core 9H

Cored 74.0-83.5 mbsf

1057A-9H

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
1	1	gn GY	***			↕	gn GY	CLAY WITH NANNOFOSSILS and NANNOFOSSIL CLAY	<p>General Description:                      This core contains greenish gray (5GY 6/1) CLAY WITH NANNOFOSSILS and light greenish gray (5GY 8/1) NANNOFOSSIL CLAY alternating in the top 4 sections. Bioturbation is from moderate to heavy. The interval from 140 cm in Section 4 to the bottom of Section 8 comprises convoluted beds suggestive of soft sediment deformation features. The sediment within the slumped interval is of similar composition as the above layers. Short coarsening intervals are observed in Sections 1 and 4.</p> <p>~ 2 cm-wide, black pebble of uncertain origin</p>
2	2	mlt gn GY	***			↕	mlt gn GY		
3	3	lt gn GY	***			↕	lt gn GY		
4	4	mlt gn GY	***			↕	mlt gn GY		
5	5	lt gn GY	***			↕	lt gn GY		
6	6	mlt gn GY	***			↕	mlt gn GY		
7	7	gn GY	***			↕	gn GY		
8	8	mlt gn GY gn GY	***			↕	mlt gn GY gn GY		
9	9	gn GY	***			↕	gn GY		
10	10	gn GY	***			↕	gn GY		

Site 1057 Hole A Core 10H

Cored 83.5-93.0 mbsf

1057A-10H

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
0	1							med gn GY	<p><b>CLAY WITH SILT AND NANNOFOSSILS</b></p> <p>General Description:                      This core contains greenish gray (5GY 6/1) CLAY WITH SILT AND NANNOFOSSILS. There are NANNOFOSSIL CLAY, SILTY CLAY, and NANNOFOSSIL CLAY WITH SILT more nannofossils in Sections 1, 7, and 8, where silt content is low. At least down to the bottom of Section 4, inclined and convoluted sediment structures strongly suggest slumping of the sediment (continued from the previous core). A 2 cm-wide diagenetic concretion at 30 cm in Section 3 and the dark gray color of the surrounding sediment are also attributed to slumping of the sediment and related diagenetic processes. No evidence of soft sediment deformation is present below Section 4.</p>
0.2	2							med gn GY	
0.4	3							gn GY	
0.6	4							dk gn BK	
1.0	5							gn GY	
1.4	6							SS	
1.8	7							dk gn GY	
2.2	8							med gn GY	
2.6	9							lt gn GY mt gn GY	
3.0	10							dk gn GY PAL	

Site 1057 Hole A Core 11H

Cored 93.0-102.5 mbsf

1057A-11H

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
1									<p>CLAY WITH NANNOFOSSILS AND SILT and NANNOFOSSIL CLAY</p> <p>General Description:                      This core contains greenish gray (5GY 6/1) CLAY WITH NANNOFOSSILS AND SILT from Section 2 to 40 cm in Section 6. The other core sections are occupied by more nannofossil-rich, medium dark (10Y 5/2) to light greenish gray (5GY 8/1) sediments. Sparse coarsening events, no more than 5 cm thick, are present in the clayey intervals. The transition from NANNOFOSSIL CLAY to CLAY WITH NANNOFOSSILS AND SILT in Section 6 is heavily bioturbated and extends over ~70 cm.</p>
2									
3									
4							gn GY		
5									
6									
7							lt gn GY		
8									
9							mdk gn GY		
10									

Site 1057 Hole A Core 12H

Cored 102.5-112.0 mbsf

1057A-12H

METRES	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOUR	REMARKS
0	1								<p>CLAY WITH NANNOFOSSILS AND SILT</p> <p>General Description: This core contains greenish gray (5GY 6/1) to light olive gray (5Y 6/1) CLAY WITH NANNOFOSSILS AND SILT. Only slight color or textural changes are observed. Bioturbation is from common to intense. Burrow fills are frequently pyritized, especially in Sections 4 and 5 and, more rarely, they consist of silt.</p> <p>Silt lenses</p> <p>Burrow filled with silt</p> <p>Burrow filled with silt</p>
2	2					SS		gn GY	
4	3								
6	4								
8	5								
10	6					IW			
12	7							lt ol GY	
14	8					PAL			

Site 1057 Hole A Core 13H

Cored 112.0-121.5 mbsf

1057A-13H

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
1									<p><b>CLAY WITH SILT AND NANNOFOSSILS</b></p> <p>General Description: This core contains greenish gray to medium dark greenish gray (5GY 6/1 to 5GY 5/1) CLAY WITH SILT AND NANNOFOSSILS. Two approximately 5 and 10 cm-thick intervals of laminated and interbedded clay and silt punctuate the sedimentary record in Sections 3 and 7. Carbonate debris (mainly foraminifers) is present in the silt laminae of Section 7. Bioturbation varies from common to abundant and pyritization of burrow-fills is moderate, with the exception of Section 8 where it is common.</p> <p>Sequence of interbedded silt and clay laminae with sharp contacts</p> <p>Lamination as in Section 3. Foraminifer tests noticed</p>
2								gn GY	
								mt gn GY	
3								gn GY	
4								gn GY	
5								mt gn GY	
6								gn GY	
7								gn GY	
8								mdk gn GY	

Site 1057 Hole A Core 14H

Cored 121.5-131.0 mbsf

1057A-14H

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
0									<p><b>CLAY WITH NANNOFOSSILS</b></p> <p>General Description: This core contains very homogeneous, greenish gray (5GY 6/1) CLAY WITH NANNOFOSSILS with short intervals containing more silt. Two approximately 40 cm-thick intervals of mixed coarser-grained sediments are present in Section 3. A few pockets of biogenic silica and common pyrite concretions are also present. Sediment fracturing caused by gas expansion is fairly common.</p> <p>Biogenic silica pocket.</p> <p>Few centimeter thick interval with sharp basal contact containing interbedded silt and clay laminae.</p>
2					Py			gn GY	
3					Py			gn GY ol GN	
4					Py			gn GY	
5					Py			ol GN	
6					Py			mt gn GY	
7					Py			gn GY	
8					Py				
10					Py				

IW

PAL

Site 1057 Hole B Core 1H

Cored 0.0-3.7 mbsf

1057B-1H

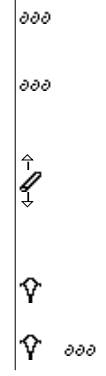
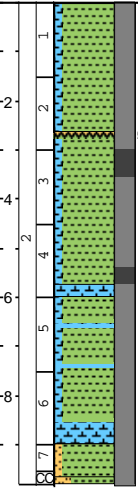
METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
									<p><b>CLAY WITH NANNOFOSSILS</b></p> <p>General Description:                      This core contains brownish gray (5YR 4/1) CLAY WITH NANNOFOSSILS. The dominant lithology contains variable amounts of clay, nannofossils, and silt, ranging from a SILTY CLAY WITH NANNOFOSSILS in Section 1 to a CLAY in Section 4. The entire core is marked by abundant, small (&lt;1 cm), partially concreted relict diagenetic fronts, especially in Section 2. Some distinct silty layers of similar thickness are also present. Shell fragments are disseminated throughout the core.</p>

Site 1057 Hole B Core 2H

Cored 3.7-13.2 mbsf

1057B-2H

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
0									<p>CLAY WITH NANNOFOSSILS</p> <p>General Description: This core contains light (5GY 8/1) to dark greenish gray (5GY 4/1) CLAY WITH NANNOFOSSILS. Small amounts of CLAY WITH SILT and SILTY CLAY are also present. The dominant lithology contains many thin (1-3 cm) relict oxic-anoxic boundaries which are often partially concreted. A coarse interval is present in Section 2, with a scoared basal contact containing abundant carbonate shell fragments. The relative abundance of nannofossils is variable, ranging from a CLAY WITH NANNOFOSSILS to a NANNOFOSSIL OOZE. Clay-filled burrows and pteropod fragments are common throughout the core.</p> <p>Section 3 contains nine distinct, greenish gray, and partially concreted diagenetic intervals about 1 cm thick.</p>
1								med ol GY	
2					∂∂∂	∞∞∞		med br GY	
3					∂∂∂			med br GY	
4					↑ ↓			lt gn GY	
5					↑ ↓			mlt gn GY	
6					↑ ↓			med br GY	
7					↑ ↓				



CLAY WITH NANNOFOSSILS

General Description:  
This core contains light (5GY 8/1) to dark greenish gray (5GY 4/1) CLAY WITH NANNOFOSSILS. Small amounts of CLAY WITH SILT and SILTY CLAY are also present. The dominant lithology contains many thin (1-3 cm) relict oxic-anoxic boundaries which are often partially concreted. A coarse interval is present in Section 2, with a scoared basal contact containing abundant carbonate shell fragments. The relative abundance of nannofossils is variable, ranging from a CLAY WITH NANNOFOSSILS to a NANNOFOSSIL OOZE. Clay-filled burrows and pteropod fragments are common throughout the core.

Section 3 contains nine distinct, greenish gray, and partially concreted diagenetic intervals about 1 cm thick.

SS

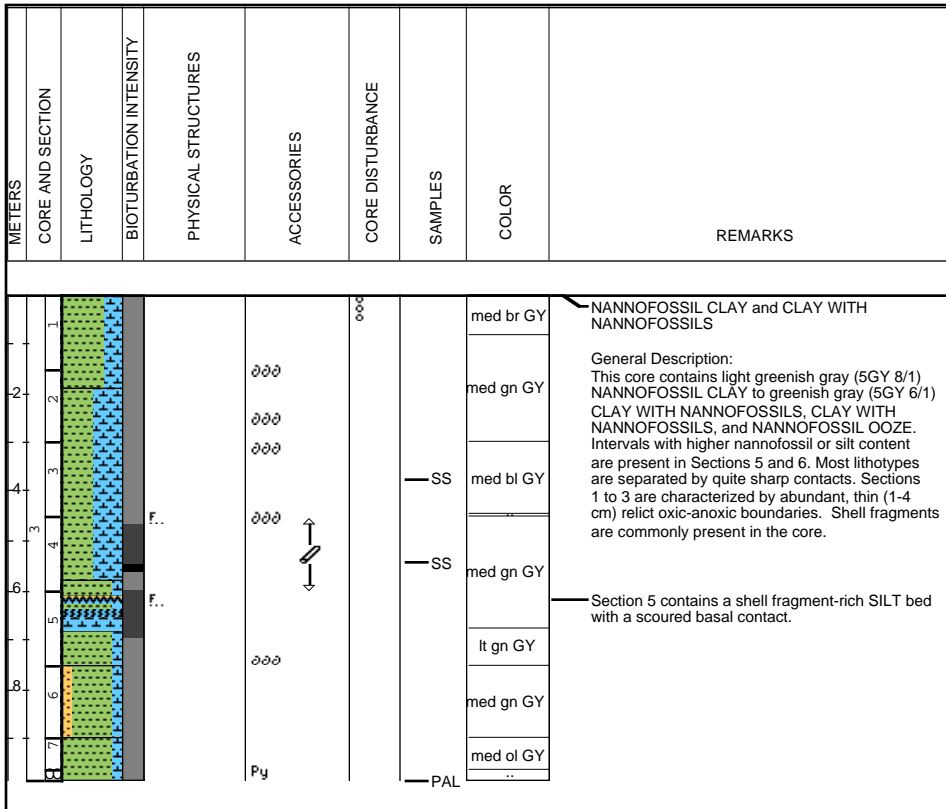
PAL



Site 1057 Hole B Core 3H

Cored 13.2-22.7 mbsf

1057B-3H



Site 1057 Hole B Core 4H

Cored 22.7-32.2 mbsf

1057B-4H

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
0									<p><b>NANNOFOSSIL CLAY and NANNOFOSSIL-CLAY MIXED SEDIMENT</b></p> <p>General Description:                      This core contains variable lithologies ranging from medium light greenish gray (5GY 7/1) CLAY WITH NANNOFOSSILS to light greenish gray (5GY 8/1) NANNOFOSSIL OOZE. Variable amounts of silt, highest in the CLAY WITH NANNOFOSSILS AND SILT of Section 1, are also present. Bioturbation is intense in the lighter colored, nannofossil-rich intervals. Sparse, partially concreted relict diagenetic fronts are still present, especially in Section 5.</p>
1								ol GY	
2								lt bl GY	
3								mlt gn GY	
4								lt gn GY	
5									
6								med gn GY	
7									
8									
9									
10									



PAL

Site 1057 Hole B Core 5H

Cored 32.2-41.7 mbsf

1057B-5H

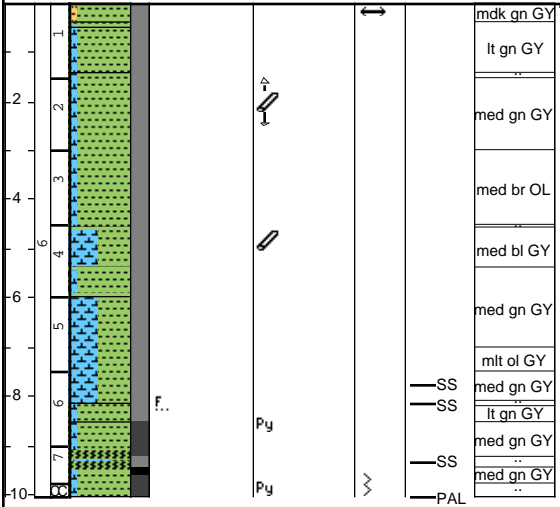
METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
0	1								<p><b>NANNOFOSSIL-CLAY MIXED SEDIMENT and CLAY WITH NANNOFOSSILS</b></p> <p>General Description:                      This core contains light (5GY 8/1) to greenish gray (5GY 6/1) NANNOFOSSIL-CLAY MIXED SEDIMENT and dark greenish gray (5GY 4/1) CLAY WITH NANNOFOSSILS. The dominant lithology contains variable amounts of clay and nannofossils with sharp and sometimes bioturbated contacts (especially in Section 3 and 4) between lithologies. Sections 1 and 2 are marked by abundant, thin (1-3 cm), and partially concreted relict diagenetic fronts. Pyrite concretions are fairly common.</p>
1	2						med gn GY		
2	3						lt gn GY		
3	4						med gn GY		
4	5						lt gn GY		
5	6						med gn GY		
6	7						..		
7	8						mdk gn GY		
8	9						..		
9	10						mdk gn GY		
10									

Site 1057 Hole B Core 6H

Cored 41.7-51.2 mbsf

1057B-6H

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
1								mdk gn GY	<p>CLAY WITH NANNOFOSSILS and NANNOFOSSIL-CLAY MIXED SEDIMENT</p> <p>General Description:                      This core contains greenish gray (5GY 6/1) CLAY WITH NANNOFOSSILS and greenish gray NANNOFOSSIL-CLAY MIXED SEDIMENT. The relative abundance of nannofossils increases in Section 4 with sharp contacts between lithologies. All contacts in Section 7 are irregular due to moderate to severe bioturbation. Color laminae and mottles are common in the lower sections.</p>
2								lt gn GY	
3								med gn GY	
4								med br OL	
5								med bl GY	
6								med gn GY	
7								mt ol GY	
8							SS	med gn GY	
9							SS	lt gn GY	
10							SS	med gn GY	
							PAL	med gn GY	



Site 1057 Hole B Core 7H

Cored 51.2-60.7 mbsf

1057B-7H

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
1									<p><b>CLAY WITH NANNOFOSSILS</b></p> <p>General Description: This core contains a light greenish gray (5G 8/1) to dark greenish gray (10Y 5/2) CLAY WITH NANNOFOSSILS. The dominant lithology is interbedded with a CLAYEY NANNOFOSSIL OOZE bed (28 cm) in Section 7. The sediment is generally homogeneous, massive, and structureless. Gas expansion disturbance and related sediment fractures are common throughout the core in sharp contrast with the overlying cores.</p> <p>In Section 5, moderate greenish gray and pale red laminae prevalent.</p>
2							mt gn GY		
3							med gn GY		
4							med br GY		
5							dk gn GY		
6							lt gn GY		
7							lt gn GY		
8							dk gn GY		
9							med gn GY		
10							..		

Site 1057 Hole B Core 8H

Cored 60.7-70.2 mbsf

1057B-8H

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
1									<p>CLAY WITH NANNOFOSSILS AND SILT and NANNOFOSSIL CLAY</p> <p>General Description: This core contains light (5G 8/1) to dark (5G 4/1) greenish gray CLAY WITH NANNOFOSSILS AND SILT interbedded with SILTY CLAY WITH NANNOFOSSILS and a NANNOFOSSIL CLAY in Section 5. From the middle of Section 6 to Section 8 NANNOFOSSIL CLAY is the dominant sediment type. Lithologic variations are commonly associated with gradational changes in grain size. The dominant lithology is generally massive and structureless throughout the core with disseminated pyrite concretions.</p>
2								mdk gn GY dk gn GY	
3								..	
4								mdk gn GY dk gn GY	
5								med ol GY lt gn GY	
6								mdk gn GY dk gn GY	
7								lt gn GY	
8								mdk gn GY	
9									
10									

PAL

Site 1057 Hole B Core 9H

Cored 70.2-79.7 mbsf

1057B-9H

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
					<p>Py</p>		<p>mdk gn GY</p> <p>med gn GY</p> <p>..</p> <p>lt ol GY</p> <p>..</p> <p>mlt gn GY</p> <p>mdk gn GY</p> <p>..</p> <p>..</p> <p>dk gn GY</p>	<p>CLAY WITH NANNOFOSSILS</p> <p>General Description: This core mainly contains CLAY WITH NANNOFOSSILS in different shades of greenish gray (5GY 6/1). The abundance of biogenic and siliciclastic components varies throughout the core, ranging from a NANNOFOSSIL-CLAY MIXED SEDIMENT in Section 6 to the dominant CLAY WITH NANNOFOSSILS. The sediment is generally structureless and massive with disseminated pyrite. Gas expansion is common throughout the upper 3 sections.</p>	





Site 1057 Hole B Core 11H

Cored 89.2-98.7 mbsf

1057B-11H

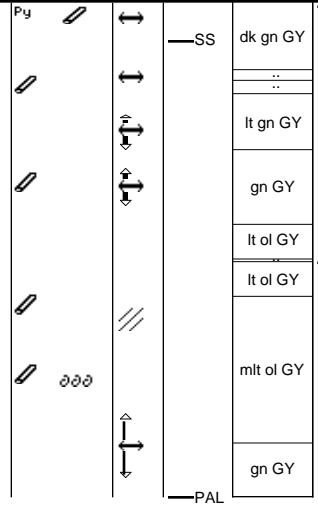
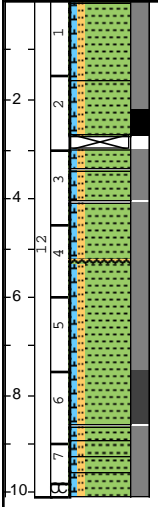
METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
1									<p><b>CLAY WITH SILT AND NANNOFOSSILS</b></p> <p>General Description:                      This core contains light (5GY 8/1) to dark greenish gray (5GY 4/1) CLAY WITH SILT AND NANNOFOSSILS. Thin (1-2 cm) color laminae are abundant in Sections 1 to 3. In Section 3, a medium-sized (7 cm) bed of greenish gray (5GY 6/1) SILT is present with a sharp basal and gradational upper contacts. The dominant lithology is generally massive and structureless with disseminated pyrite.</p>
2							gn GY		
3							lt gn GY		
4							gn GY		
5							dk gn GY		
6							lt gn GY		
7							gn GY		
8							lt ol GY		
9							gn GY		
10							gn GY		
							SS		
							PAL		

Site 1057 Hole B Core 12H

Cored 98.7-108.2 mbsf

1057B-12H

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
0	1								<p><b>CLAY WITH SILT</b></p> <p>General Description: This core contains greenish gray (5GY 6/1) CLAY WITH SILT. The dominant lithology generally is massive and structureless with disseminated pyrite and color mottles. Several burrows throughout the core contain calcite-cemented biogenic silica spicules.</p> <p>In Section 4, a small (5 cm) bed of interbedded SILT and CLAY laminae is present. The basal contact is scoured with a coarser silt lamina, and the upper contact is gradational.</p>
1	2							dk gn GY	
2	3							lt gn GY	
3	4							gn GY	
4	5							lt ol GY	
5	6							mt ol GY	
6	7							gn GY	
7	8								
8	9								
9	10								



CLAY WITH SILT

General Description:  
This core contains greenish gray (5GY 6/1) CLAY WITH SILT. The dominant lithology generally is massive and structureless with disseminated pyrite and color mottles. Several burrows throughout the core contain calcite-cemented biogenic silica spicules.

In Section 4, a small (5 cm) bed of interbedded SILT and CLAY laminae is present. The basal contact is scoured with a coarser silt lamina, and the upper contact is gradational.

Site 1057 Hole B Core 13H

Cored 108.2-117.7 mbsf

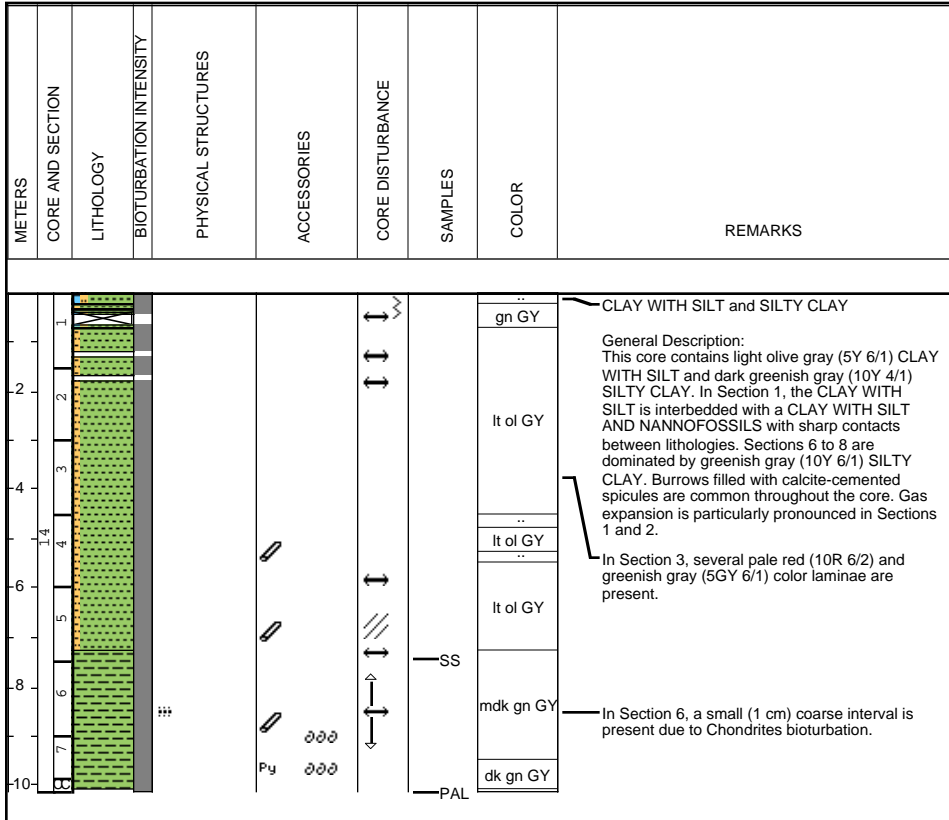
1057B-13H

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
0									<p>CLAY WITH NANNOFOSSILS AND SILT</p> <p>General Description: This core contains light olive gray (5Y 6/1) to greenish gray (5GY 6/1) CLAY WITH NANNOFOSSILS AND SILT. Color mottling is present throughout the core due to moderate to severe bioturbation. The dominant lithology is generally massive and structureless with disseminated pyrite concretions and sparse shell fragments. Gas expansion and related sediment fracturing is remarkably low if compared to cores above and below.</p> <p>In Section 5 there are several interbedded brownish gray (5YR 4/1) SILT and CLAY laminae with gradational upper and basal contacts.</p>
1								lt ol GY	
2								gn GY	
3								lt ol GY	
4								..	
5					Py			lt ol GY	
6								dk gn GY	
7								..	
8									
9									
10									

Site 1057 Hole B Core 14H

Cored 117.7-127.2 mbsf

1057B-14H



Site 1057 Hole B Core 15H

Cored 127.2-136.7 mbsf

1057B-15H

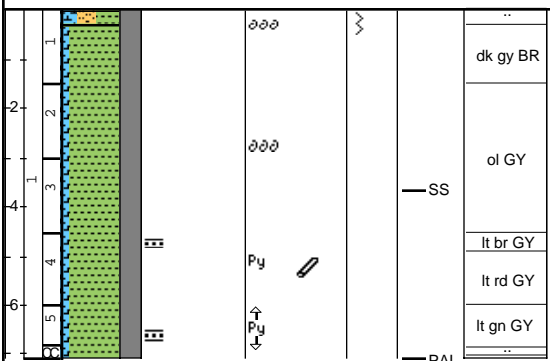
METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
1									<p><b>CLAY WITH SILT AND NANNOFOSSILS</b></p> <p>General Description: This core contains light greenish gray (5GY 8/1) to greenish gray (5GY 6/1) CLAY WITH SILT AND NANNOFOSSILS, and SILTY CLAY. The dominant lithology is markedly massive, structureless, and homogeneous. Several burrow-fills contain calcite-cemented spicules of biogenic silica. Pyrite is disseminated throughout the core.</p> <p>In Section 4 there are several greenish gray (5GY 6/1) and brownish gray (5YR 4/1) color laminae present.</p>
2								lt ol GY	
3								dk gn GY	
4								gn GY	
5								lt gn GY	
6								gn GY	
7								lt gn GY	
10								lt gn GY	

Site 1057 Hole C Core 1H

Cored 0.0-7.0 mbsf

1057C-1H

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
0	1	CLAY WITH NANNOFOSSILS						dk gy BR	<p><b>CLAY WITH NANNOFOSSILS</b></p> <p>General Description: This core contains olive gray (5Y 4/1) CLAY WITH NANNOFOSSILS. Section 1 consists of yellowish brown (10YR 5/4) SILTY NANNOFOSSIL CLAY interbedded with CLAY WITH NANNOFOSSILS. The dominant lithology is marked by abundant dark greenish gray (10Y 4/1), thin (1-2 cm), and partially concreted relict diagenetic fronts. Pyrite is disseminated throughout the core.</p> <p>In Section 2 there are 18 relict diagenetic fronts concreted to different extents.</p> <p>Section 5, 61-67 cm: Very fine (&lt;1 mm) SILT laminae alternating with a well-sorted clay.</p>
1	2	CLAY WITH NANNOFOSSILS						ol GY	
2	3	CLAY WITH NANNOFOSSILS						lt br GY	
3	4	CLAY WITH NANNOFOSSILS						lt rd GY	
4	5	CLAY WITH NANNOFOSSILS						lt gn GY	
5	6	CLAY WITH NANNOFOSSILS							
6	7	CLAY WITH NANNOFOSSILS							



Site 1057 Hole C Core 2H

Cored 7.0-16.5 mbsf

1057C-2H

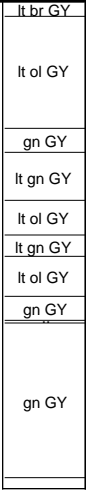
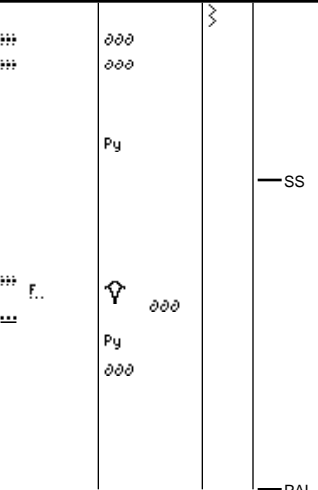
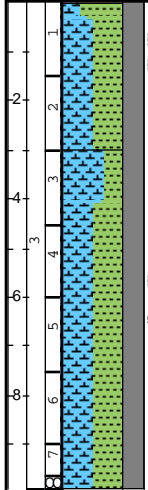
METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
0									<p><b>NANNOFOSSIL CLAY, CLAY WITH NANNOFOSSILS, and NANNOFOSSIL OOZE WITH CLAY</b></p> <p>General Description:                      This core contains olive gray (5Y 4/1) NANNOFOSSIL CLAY and light brownish gray (5YR 6/1) CLAY WITH NANNOFOSSILS. In Sections 5-6 the dominant lithologies are interbedded with a light greenish gray (5GY 8/1) NANNOFOSSIL OOZE WITH CLAY. All contacts between lithologies are gradational. Dark greenish gray (10Y 5/1) to bluish gray (5B 5/1) color laminae of diagenetic origin are common throughout the core.</p>
1							ol GN		
2							ol GY		
3							gn GY		
4							lt gn GY		
5					∅∅∅		..		
6					∅∅∅		mlt gy BR		
7							..		
8							lt br GY		
								PAL	

Site 1057 Hole C Core 3H

Cored 16.5-26.0 mbsf

1057C-3H

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
0									
1								lt br GY	<p><b>NANNOFOSSIL-CLAY MIXED SEDIMENT</b></p> <p>General Description:                      This core contains light olive gray (5Y 6/1) NANNOFOSSIL-CLAY MIXED SEDIMENT. The dominant lithology contains variable amounts of clay and nannofossils throughout the core, ranging from a light greenish gray (5GY 8/1) NANNOFOSSIL OOZE WITH CLAY in Section 3 to the greenish gray (5GY 6/1) of the dominant lithology in Sections 4 to 8. Several thin brownish gray (5YR 4/1) SILTY CLAY beds with shell fragments, sharp basal contacts, and gradational upper contacts are present throughout the core.</p> <p>In Sections 6 there are several thin (1 cm), dark greenish gray color laminae.</p>
2								lt ol GY	
3								gn GY	
4								lt gn GY	
5								lt ol GY	
6								lt gn GY	
7								lt ol GY	
8								gn GY	
9								gn GY	
10								gn GY	



lt br GY

lt ol GY

gn GY

lt gn GY

lt ol GY

lt gn GY

lt ol GY

gn GY

gn GY

gn GY



Site 1057 Hole C Core 4H

Cored 26.0-35.5 mbsf

1057C-4H

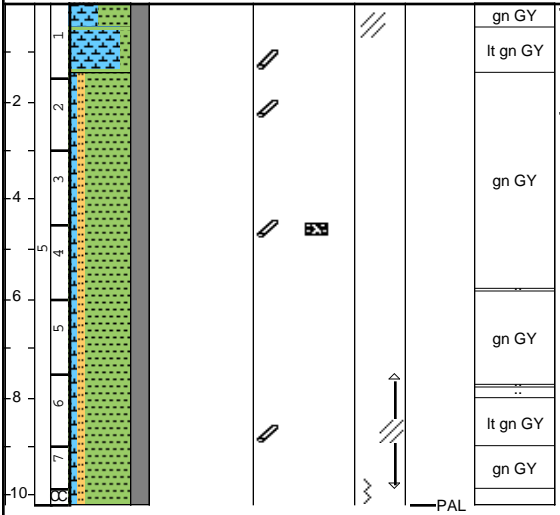
METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
0	1							lt gn GY	<p><b>NANNOFOSSIL CLAY and CLAY WITH NANNOFOSSILS</b></p> <p>General Description:                      This core contains light olive gray (5Y 6/1) NANNOFOSSIL CLAY. Throughout the core the relative amounts of clay and nannofossils vary, ranging from a light greenish gray (5GY 8/1) NANNOFOSSIL OOZE WITH CLAY in Section 2 to a greenish gray (5GY 6/1) CLAY WITH NANNOFOSSILS in Sections 7 to 8. All contacts between lithologies are gradational. In Section 6 several coarse beds with sharp contacts are present, possibly resulting from bioturbation processes.</p>
2	2							lt ol GY	
7	7							gn GY	
									PAL

Site 1057 Hole C Core 5H

Cored 35.5-45.0 mbsf

1057C-5H

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
0								gn GY	<p>CLAY WITH NANNOFOSSILS AND SILT</p> <p>General Description: This core contains light greenish gray (5GY 8/1) to greenish gray (5GY 6/1) CLAY WITH NANNOFOSSILS AND SILT. In Sections 1 and 2 the dominant lithology is interbedded with a greenish gray (5GY 6/1) NANNOFOSSIL-CLAY MIXED SEDIMENT and a light greenish gray (5GY 8/1) NANNOFOSSIL OOZE WITH CLAY. Color mottling and lamination are common throughout the core. The dominant lithology is generally massive and structureless with few changes in grain size.</p> <p>Section 2, 62-150 cm: Color laminae very well defined.</p>
1								lt gn GY	
2								gn GY	
3								gn GY	
4								gn GY	
5								gn GY	
6								lt gn GY	
7								gn GY	
8									
9									
10									



Site 1057 Hole C Core 6H

Cored 45.0-54.5 mbsf

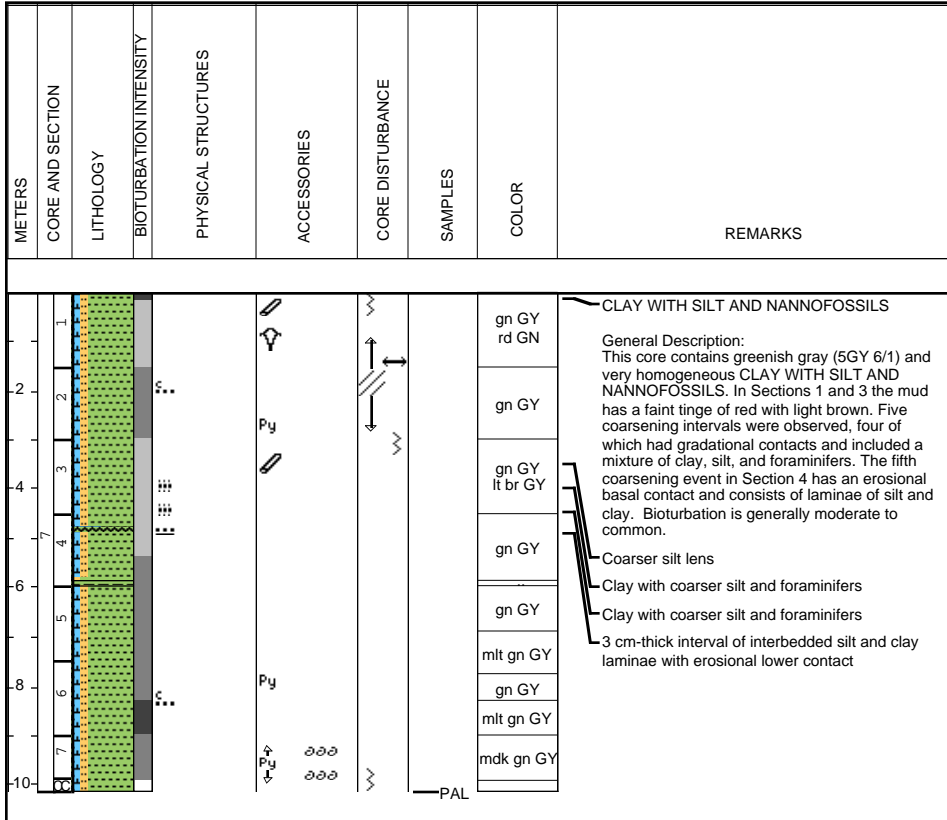
1057C-6H

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
0	1								<p>CLAY WITH SILT AND NANNOFOSSILS</p> <p>General Description:                      This core mainly contains greenish gray (5GY 6/1) CLAY WITH SILT AND NANNOFOSSILS. Section 4 contains the only silty interval with sharp lower and gradational upper contacts. Bioturbation is generally moderate and pyritized burrows are fairly common. The first biogenic silica-filled burrow of Hole 1057C is observed in Section 1.</p>
0.2	2				Py			gn GY	
0.4	3				Py			lt ol GY	
0.6	4				Py			lt br GY	
0.8	5				Py			lt ol GY	
1.0	6				Py			gn GY	
1.2	7				Py			..	
1.4	8				Py			lt gn GY	
1.6	9				Py			lt gn GY	
1.8	10				Py			gn GY	
2.0								mt gn GY	
2.2								mdk gn GY	

Site 1057 Hole C Core 7H

Cored 54.5-64.0 mbsf

1057C-7H



Site 1057 Hole C Core 8H

Cored 64.0-73.5 mbsf

1057C-8H

