

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 1	Type H	Section 1
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Date 27/1	Time	Observers SCJ
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Roundness					Color	Accessories	Core Disturbance	Description
				w	m	vp	bl	r				
0												Black, organic rich, fine grained clay well sorted. Homogeneous and massive.
10									N/2.5			Surface - 'soupy' 'viscous clumps' - no visible bioturbation
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												
160												

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 1	Type H	Section 2
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Date 27/1	Time	Observers SCT
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Round-ness					Color	Accessories	Core Disturbance	Description
				w	m	v	p	b				
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160									N/25		slight	Oxidized around edges & cracks Black homogenous clay, fine grained, well sorted







# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 2	Type H	Section 3
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Date 2/7/1	Time 18:37	Observers JBJ/CSS
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Round-ness							Color	Accessories	Core Disturbance	Description
				w	m	vp	bl	r	a					
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160		0								GLEY 2.5/N		1	BLACK, ORGANIC RICH CLAY, WEAK LAMINATION, BY COLOR, SLIGHTLY DISTURBED, OXIDISED ALONG CORE LINER AND VERTICAL CRACKS, 2.5Y 7/3 PALE YELLOW VERY WELL SORTED	













# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 4	Type H	Section 2
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Date 27/1/14	Time 20:35	Observers JBT/CST
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[cm]	Graphic Lith. Bioturb.	Structure	Fossils	Sorting Round-ness							Color	Accessories	Core Disturbance	Description
				w	m	vp	bl	r	a					
0											CLAY 2.5/10			BLACK TO GREENISH BLACK, WEAK LAMINATION BY COLOR, ORGANIC RICH CLAY, VERY WELL SORTED,
10	1													WEAK BIOTURBATION, FEW SHELL FRAGMENTS AT 25 CM, 35 CM, 45 CM, 70 CM, 130 CM, 144 CM
20											CLAY 2.5/10			SLIGHTLY DISTURBED TO MODERATELY DISTURBED, UPPERMOST 80 CM, OXIDISED ALONG CORELINER AND CRACKS,
30				x										
40														
50	1													
60														2.5 4/2 DARK GRAYISH BROWN
70														
80														
90	1													
100														
110														
120														
130														
140	1													
150														
160														



# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 4	Type H	Section CC
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Date 27/1/14	Time 20:55	Observers JBJ/CSJ
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Round-ness					Color	Accessories	Core Disturbance	Description
				w	m	vp	bl	r				
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160		 	 	 	 	 	 	 	 	 	BLACK, ORGANIC RICH, VERY WELL SORTED, FEW SHELL FRAGMENTS AT 11CM. MODERATELY DISTURBED	
			x					GLEY 2.5/2				

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 5	Type H	Section 1
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Date 27/1/14	Time 21:03	Observers JBJ/MSJ
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[cm]	Graphic Lith.	Bioturb.	Structure	Fossils	Sorting Roundness					Color	Accessories	Core Disturbance	Description
					w	m	vp	bl	r				
0													BLACK TO GREENISH BLACK
10													WEAK LAMINATION BY COLOR, UPPERMOST 27 CM
20													MODERATELY DISTURBED, REST SLIGHTLY DISTURBED,
30													ORGANIC RICH CLAY, VERY WELL SORTED,
40													WEAK BIOTURBATION
50													FEW SHELL FRAGMENTS AT 52 CM, Ten
60													OXIDISED AT BOTTOM
70													
80													
90													
100													
110													
120													
130													
140													
150													
160													

GLAY  
2.5/W

GLAY  
2.5/10x

x

x





# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 5	Type H	Section 3
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Date 2/7/14	Time 21:25	Observers JBT/CST
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Roundness					Color	Accessories	Core Disturbance	Description	
				w	m	vp	bl	r					a
0	[REDACTED]	1								x	GREY 2.5/N		<ul style="list-style-type: none"> <li>• BLACK, ORGANIC RICH</li> <li>• CLAY, WEAK LAMINATION</li> <li>• BY COLOR, VERY WELL SORTED</li> <li>• WEAK BIOTURBATION</li> <li>• FEW SHELL FRAGMENTS</li> <li>• SLIGHTLY DISTURBED <span style="float: right;">9cm</span></li> <li>• OXIDISED ALONG CORELINER AND CRACKS.</li> <li>• OXIDISED COLOR</li> <li>• 2.5 Y 4/2 DARK GRAYISH BROWN</li> </ul>
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													
160													

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 5	Type H	Section CC
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Date 27/1/14	Time 21:30	Observers JBT/CSJ
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[cm]	Graphic Lith. Bioturb.	Structure   Fossils	Sorting Round-ness					Color	Accessories	Core Disturbance	Description
			w	m	vp	bl	r				
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160								CLAY 2.5/N			BLACK, ORGANIC RICH CLAY, VERY WELL SORTED, HEAVILY DISTURBED OXIDISED ALONG CORE LINER AND CRACKS.





# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 6	Type H	Section 3
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Date 28.01.14	Time 09:05	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting	Round-ness	Color	Accessories	Core Disturbance	Description
				w m vp bl r a					
0	[Redacted]								<p><i>mean</i> black organic-rich clay (<del>M2.5</del>) 10Y 7.5/1</p> <ul style="list-style-type: none"> <li>• homogeneous with uncommon bioturbation (burrows?)</li> <li>• oxidized along cracks and core lines</li> <li>• very well sorted</li> <li>• shell fragments at base</li> <li>• slightly disturbed</li> </ul>
10									
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									
160									

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 6	Type H	Section CC
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Date 1/28/14	Time	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting	Round-ness	Color	Accessories	Core Disturbance	Description
				w m vp bl r	a				
0			0						Greenish black (10Y2.5) organic-rich clay; homogeneous with possible burrows at <del>0-5</del> <sup>0-5</sup> and <del>22-23</del> <sup>13-21</sup> cm uncommon bioturbation very well sorted olive oxidation within burrows, cracks and along core liner
10									
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									
160									

















# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 8	Type H	Section CC
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Date 1/28/14	Time	Observers MK/SP
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[cm]	Graphic Lith. Bioturb.	Structure   Fossils	Sorting w m vp bl r	Round-ness a	Color	Accessories	Core Disturbance	Description
0  10  20  30  40  50  60  70  80  90  100  110  120  130  140  150  160	[Redacted]							Black (N2.5) organic-rich clay; very well sorted, homogeneous, no visible bedding or bioturbation

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 9	Type H	Section 1
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Date 28.01.14	Time 09:10	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure	Fossils	Sorting Roundness										Color	Accessories	Core Disturbance	Description
					w	m	vp	bl	r	a								
0																	W	highly disturbed
10																	W	
20					X													black organic-rich clay
30					X													(M2.5)
40																		mostly homogeneous with faint color banding/lamination
50					?													very well sorted
60					X													shell fragments at 13a, 26a, 35a, 58a, 60a, 67a, 84a, 127-131a
70					X													unknown fossil/mineral at 49 cm (spherical)
80					X													plant macrofossil at 70-71a
90																		70-71a vertebrate remains 142-143 cm (fish bones?)
100																		sparse bioturbation (1)
110																		oxidized along cracks and syringe mark at bottom
120					X													(5Y 4/3 olive)
130																		
140					X													
150																		
160																		









# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 10	Type H	Section 1
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Date 1/28/14	Time	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure	Fossils	Sorting	Round-ness	Color	Accessories	Core Disturbance	Description
0										Black (N2.5) organic-rich clay; very well sorted; very weak lamination by color, largely homogeneous; - shell fragments at 13-14 cm, 70-72 cm, 109-111 cm, 127-128 cm - gas expansion voids and disturbance at 0-46 cm - possible discrete burrows at 87-88 cm, lined
10										
20										
30										
40										
50										
60										
70										
80										
90										
100										
110										
120										
130										
140										
150										
160										





# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 10	Type H	Section CC
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Date 1/28/14	Time	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Round-ness					Color	Accessories	Core Disturbance	Description
				w	m	vp	bl	r				
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160	[REDACTED]										Black organic-rich clay; very oxidized along core liner; possible bioturbation; very well sorted; homogeneous	

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 11	Type H	Section 1
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Date 1/20/14	Time	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Roundness	Color	Accessories	Core Disturbance	Description
0			<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Structure   Fossils</p> <p style="text-align: center;">w m vp bl r a</p> </div> <div style="width: 45%;"> <p>Sorting Roundness</p> <p style="text-align: center;">w m vp bl r a</p> </div> </div>	<p>Color</p>	<p>Accessories</p>	<p>Core Disturbance</p>	<p>Black (N25) organic-rich clay; 0-29 cm: highly distributed</p> <p>32-39 cm: oxidized olive color (5Y 4/3)</p> <p>39-150 cm: very weak lamination by color</p> <p>- shell fragment at 42-49 cm; 123-124 cm</p> <p>- possible fish debris at 55 cm</p> <p>- 143-150 cm oxidized</p> <p>- many gas expansion voids making observation difficult</p> <p>- possible evidence of bioturbation at 105-125 cm</p>	
10								
20								
30								
40								
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								
160								











# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 12	Type H	Section 2
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Date 1/28/14	Time	Observers MK/JP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Roundness w m vp bl r a	Color	Accessories	Core Disturbance	Description
0			Structure   Fossils	Sorting Roundness w m vp bl r a	Color	Accessories	Core Disturbance	Black (N25) organic-rich clay; lamination by color disrupted by uncommon (2) bioturbation
10								- shell fragments at
20								~28, 32, 42-49 cm,
30								71-72, 86-87 cm.
40								117-118 cm.
50								- oxidation at 135-150 cm along core line and cracks
60								- 78-150 cm: contains a minor silt component
70								
80								
90								
100								
110								
120								
130								
140								
150								
160								

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp.	Site	Hole	Core	Type	Section
347	59	D	12	H	3

Date	Time	Observers
28.01.14	10.55	MK/SP

[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Roundness w m vp bl r a	Color	Accessories	Core Disturbance	Description
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160								• greenish blank organic-rich clay (10Y 7.5/1) • mostly homogeneous with faint color banding • slightly disturbed • possible burrows at 7-10m ↳ sparse bioturbation • very well sorted • oxidized along core with cracks 0-16cm • small portion of silt

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 12	Type H	Section CC
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Date 1/28/14	Time	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Round-ness w m vp bl r a	Color	Accessories	Core Disturbance	Description
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160			*					Black (N25) organic-rich clay; weak color lamination; otherwise homogeneous; shell fragments at 5-7 cm; some oxidation 5-7 cm; possible bioturbation visible at 9-19 cm very well sorted









# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 13	Type H	Section CC
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Date 1/28/14	Time	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Roundness w m vp bl r a	Color	Accessories	Core Disturbance	Description
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160		3						<p>Black (N2.5) organic-rich clay;                      some oxidized discrete burrows                      minor silt component                      0-4cm: highly disturbed</p>

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 14	Type H	Section 1
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Date 28.01.14	Time 11:40	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure	Fossils	Sorting Roundness					Color	Accessories	Core Disturbance	Description
					w	m	vp	bl	r				
0				α									
10				α									highly disturbed
20													
30													greenish • black organic rich clay • <del>1042.5/11</del> (1042.5/11)
40													• weak color banding/lamination • very well sorted
50				α									• some bands disrupted ↳ possible uncommon bioturbation (Z)
60				x									• shell (large) at 7cm, 47-49cm, 119cm
70				x									• shell fragments at 56cm, 57-61cm, 74-75cm, 89cm, 124cm, 134-136cm,
80				x									• sponge mark at bottom (145-150cm)
90													• large with a lot of spines and mollusk fragments (116-118cm) ↳ storm sediment? 116.5cm
100													• minor silt component
110													• oxidized along core length and cracks (horizontal + vertical)
120				x									• 125-150cm
130				x									
140													
150													
160													



# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 14	Type H	Section 3
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Date 28.01.14	Time 13:10	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Round-ness					Color	Accessories	Core Disturbance	Description
				w	m	vp	bl	r				
0	[Redacted]											<p>Light organic-rich clay (N2.5)</p> <p>homogeneous with weak color banding / laminations (cm scale)</p> <p>• very well sorted</p> <p>• oxidized at 0-10 cm and 22-31 cm (along core line at cracks)</p> <p>• shell fragments at 27 cm</p> <p>• slightly disturbed</p> <p>• possible sparse bioturbation</p>
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												
160												

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp.	Site	Hole	Core	Type	Section
347	59	D	14	H	CC

Date	Time	Observers
28.01.14	13:30	MK/SP

[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting	Roundness	Color	Accessories	Core Disturbance	Description
				w m vp bl r	a				
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160									<p><i>greenish</i> black organic-rich clay (10/413) with minor silt components</p> <p>very well sorted</p> <p>mostly homogeneous with weak color banding</p> <p>void at 0-2 cm</p> <p>slightly disturbed</p> <p>oxidized along core line and cracks</p> <p>no bioturbation visible</p>

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 15	Type H	Section 1
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Date 1/28/14	Time	Observers MK/SP
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[cm]	Graphic Lith. Bioturb.	Structure	Fossils	Sorting Roundness					Color	Accessories	Core Disturbance	Description
				w	m	vp	bl	r				
0											<p>0-19 cm: highly disturbed</p> <p>Black (N25) organic-rich clay; minor silt weak lamination with variations in the distribution of lamina boundaries due to bioturbation</p> <p>19-54 cm: moderately bioturbated (3)</p> <p>54-150 cm: uncommonly bioturbated</p> <p>48-49 cm: possible pyritized fragment</p> <p>- very well sorted</p> <p>- homogeneous</p>	
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												
160												

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 15	Type H	Section 2
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Date 1/28/14	Time	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Roundness					Color	Accessories	Core Disturbance	Description
				w	m	vp	bl	r				
0	[Photograph of core]	1	↑ ↓								Black (N2.5) organic-rich clay; minor silt weak lamination; locally moderately bioturbated at 33- <del>59</del> 102 cm; 102-120 cm: sparsely bioturbated and laminae are more distinct planar and parallel 107-120 cm: moderately disturbed and oxidized in cracks and along core lines	
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												
160												



# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 15	Type H	Section 3
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Date 1/28/14	Time	Observers MK/SP
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[cm]	Graphic Lith. Bioturb.	Structure   Fossils	Sorting <small>w m vp bl r a</small>	Round-ness	Color	Accessories	Core Disturbance	Description
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160								Black (N2.5) organic-rich clay; weak lamination; sparsely bioturbated; oxidized along liner and in vertical cracks at 0-25cm





# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 16	Type H	Section 2
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Date 1/28/14	Time	Observers MK/SP
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[cm]	Graphic Lith.	Lith.	Bioturb.	Structure   Fossils	Sorting w m vp bl r a	Round-ness	Color	Accessories	Core Disturbance	Description
0	[Photograph of core]									0-56 cm: Black (N25) organic clay; weakly laminated with possible oxidized burrows; uncommon (2)
10								✓		vitrinite is present at 17-19 and 45-47 cm; some white debris at 17, 20, 45 cm
20										
30										
40									✓	
50										
60										
70										
80										
90										
100										
110										
120										
130										
140										
150										
160										

2



x

0-56 cm: Black (N25) organic clay; weakly laminated with possible oxidized burrows; uncommon (2)

vitrinite is present at 17-19 and 45-47 cm; some white debris at 17, 20, 45 cm

56-140 cm: Greenish black (10Y 2.5/1) distinctly parallel-laminated clay with silt component. yellowish-white laminae ore present at 60, 61, 126 cm.

Sparsely bioturbated with few discrete burrows at 56-84 cm.

Shell fragments 67 cm.

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp.	Site	Hole	Core	Type	Section
347	59	D	16	H	3

Date	Time	Observers
28/1/14	15:40	JBJ/CSJ

[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Round-ness					Color	Accessories	Core Disturbance	Description
				w	m	vp	bl	r				
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160		6									OLIVE GRAY, CLAY WITH SILT COMPONENT, LAMINATED, MM SIZE - VERY WELL SORTED, FEW <del>SILT</del> SILTY LAMINAE, SLIGHTLY DISTURBED	

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 16	Type H	Section CC
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Date 28/1 14	Time 15:50	Observers JBJ / CST
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Round-ness					Color	Accessories	Core Disturbance	Description
				w	m	vp	bl	r				
0	[Photograph of core sample]								54			OLIVE GRAY, <del>SILT</del> CLAY WITH A SILT COMPONENT, VERY WEAK LAMINATION - VERY WELL SORTED - MODERATELY DISTURBED
5												
10												
15												
20												
25												
30												
35												
40												
45												
50												
55												
60												
65												
70												
75												
80												
85												
90												
95												
100												
105												
110												
115												
120												
125												
130												
135												
140												
145												
150												
155												
160												

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 17	Type H	Section 1
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Date 28/1	Time 15:55	Observers SJS
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Round-ness					Color	Accessories	Core Disturbance	Description
				w	m	vp	bl	r				
0	[Photograph of core sample]								10 Y/4			Heavily disturbed and broken to 35cm core surface smearing during splitting Brown-grey, clay,  mm laminations of alternating light and dark bands over cm-scale, becoming more prominent towards base  Alteration in silt content from silty clay to 'siltier' clay in bands.  Fine grained, well sorted.
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												
160												



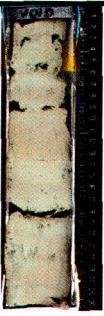





# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 17	Type H	Section CC
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Date 28/1/14	Time	Observers SCJ
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[cm]	Graphic Lith. Bioturb.	Structure   Fossils	Sorting Round-ness					Color	Accessories Core Disturbance	Description
			w	m	vp	bl	r			
0  10  20  30  40  50  60  70  80  90  100  110  120  130  140  150  160								10Y/5		Light-gray clay, Well-sorted fine grained, with coarse scale alternating bands.  Broken in places.



# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 18	Type H	Section 2
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Date 28/1/14	Time	Observers SCJ/JBT
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[cm]	Graphic Lith.	Bioturb.	Structure	Fossils	Sorting Roundness w m vp bl r a	Color	Accessories	Core Disturbance	Description
0						10Y/5		Slight	Green - gray clay to silty clay. Fine grained, well sorted.
10									Varve-like. Bands of mm-cm scale thickness variations over cm scales.
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									
160									

VOID

6 varve bands between 80-90


Bands become thicker towards base



# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 18	Type H	Section CC
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Date 28/1/14	Time	Observers SCJ/JBJ
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[cm]	Graphic Lith.	Lith.	Bioturb.	Structure   Fossils	Sorting w m vp bl r a	Round-ness	Color	Accessories	Core Disturbance	Description
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160		Horizontal lines indicating lithological features.	Horizontal lines indicating bioturbation features.	Structure and Fossils columns are empty.	Sorting columns are empty.	Round-ness column is empty.	10Y) 5	Accessories column is empty.	Core Disturbance column is empty.	Green-gray clay, fine grained well sorted with cm scale parallel laminations. Cavities in core and along liner.

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 19	Type H	Section 1
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Date 28/1	Time	Observers SCJ
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Round-ness					Color	Accessories	Core Disturbance	Description
				w	m	vp	bl	r				
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160												
								10YR 2/5		mod	Green-gray clay / silty clay fine grained, well sorted. with mm-cm scale laminations Disturbed upper 30cm,  @ ~ 70cm Thickness increases to cm scale beds.  Varve intensity increases in lower 30cm becoming thinner and with more cyclicity @ 120cm groove marks from split.  Cavity	

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 19	Type H	Section 2
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Date 28/1	Time	Observers SCS/JBS
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[cm]	Graphic Lith. Bioturb.	Structure   Fossils	Sorting Round-ness w m vp bl r a	Color	Accessories	Core Disturbance	Description
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 5px;">0</div> <div style="margin-bottom: 5px;">10</div> <div style="margin-bottom: 5px;">20</div> <div style="margin-bottom: 5px;">30</div> <div style="margin-bottom: 5px;">40</div> <div style="margin-bottom: 5px;">50</div> <div style="margin-bottom: 5px;">60</div> <div style="margin-bottom: 5px;">70</div> <div style="margin-bottom: 5px;">80</div> <div style="margin-bottom: 5px;">90</div> <div style="margin-bottom: 5px;">100</div> <div style="margin-bottom: 5px;">110</div> <div style="margin-bottom: 5px;">120</div> <div style="margin-bottom: 5px;">130</div> <div style="margin-bottom: 5px;">140</div> <div style="margin-bottom: 5px;">150</div> <div style="margin-bottom: 5px;">160</div> </div>				10YR 7/5			<p>Green-gray silty-clay well sorted and fine grained.</p> <p>Rhythmically banded alternating mm bands of light and dark alternating intensely over mm-scale (14 bands over 60-70cm)</p> <p>mm-scale fine sand interbeds, well sorted.</p> <p>Lamination spacings increase towards cm-scale.</p>






# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 19	Type H	Section CC
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Date 28/1	Time	Observers SCJ/TBS
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting	Round-ness	Color	Accessories	Core Disturbance	Description
				w m vp bl r	a				
0  10  20  30  40  50  60  70  80  90  100  110  120  130  140  150  160								mod	Muddy-smearred surface Green-gray, silty clay, with cm scale alternating bands partially visible.

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 20	Type H	Section 1
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Date 28/1	Time	Observers SCJ/JSJ
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[cm]	Graphic Lith.	Lith.	Bioturb.	Structure   Fossils	Sorting	Round-ness	Color	Accessories	Core Disturbance	Description	
					w m vp bl r a						
0										Green gray silty clay fine grained, well sorted	
10							2/5				
20											
30										mm scale bands of silty, fine sand	
40											
50											
60											
70											
80											
90											
100											
110											
120											
130					↑						Intensity of banding increases towards base.
140					↑						
150					↑						
160				↑							

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 20	Type H	Section 2
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Date 28/1	Time	Observers SCJ/JBT
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[cm]	Graphic Lith. Bioturb.	Structure   Fossils	Sorting Roundness w m vp bl r a	Color	Accessories	Core Disturbance	Description
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160				1/5			

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 20	Type H	Section 3
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Date 28/1	Time	Observers SCJ/SBS
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[cm]	Graphic Lith. Bioturb.	Structure	Fossils	Sorting Roundness w m vp bl r a	Color	Accessories	Core Disturbance	Description
0  10  20  30  40  50  60  70  80  90  100  110  120  130  140  150  160					2/5			

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 20	Type H	Section CC
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Date 28/11	Time	Observers SCO/JSJ
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[cm]	Graphic Lith. Lith. Bioturb.	Structure   Fossils	Sorting Roundness w m vp bl r a	Color	Accessories	Core Disturbance	Description
0  10  20  30  40  50  60  70  80  90  100  110  120  130  140  150  160				10YR  2/5		mod	Broken upper and distorted along edge. Some mm-cm scale lamination



# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 21	Type H	Section 2
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Date 28/1 14	Time 19:25	Observers JBZ/CST
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[cm]	Graphic Lith. Bioturb.	Structure   Fossils	Sorting Roundness							Color	Accessories	Core Disturbance	Description
			w	m	vp	bl	r	a					
0													UPPER 10 CM HEAVILY DISTURBED
10										2.5Y 4/1			DARK GRAY TO GRAYISH BROWN, CLAY, LAMINATED BY COLOR, LAMINA CM SCALE - FEW MM SILT LAMINA - VERY WELL SORTED, - SLIGHTLY DISTURBED. GRADUAL LOWER BOUNDARY.
20													
30													
40													
50													
60													
70													
71			71cm										
80										2.5Y 5/1			GRAY, CLAY AND SILT/ <sup>VERY FINE</sup> LAMINA INTER LAYERED SAND MM SIZE LAMINA TO CM, 5. VERY WELL SORTED SLIGHTLY DISTURBED.
90													
100													
110													
120													
130													
140													
150													
160													



# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 21	Type H	Section 3
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Date 28/1/14	Time 19:35	Observers JBJ/CJJ
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Roundness					Color	Accessories	Core Disturbance	Description
				w	m	v	p	b				
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160		  6  							2.54 5/1			GRAY, CLAY AND SILT TO VERY FINE SAND LAMINA, MM TO 0.5 CM SIZE,  VERY WELL SORTED,  SLIGHTLY DISTURBED








# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 22	Type H	Section 3
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Date 28/1	Time	Observers SCS
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting	Roundness	Color	Accessories	Core Disturbance	Description
				w m vp bl r a					
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160						2.5Y 5/2		mod	<p>Green to gray silty clay with sandy silt intervals. Fine grained, well sorted with rhythmic cm scales intervals</p> <p style="margin-top: 20px;">Slight bioturbation? probably from drilling</p>

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 22	Type H	Section CC
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Date 28/1	Time	Observers SEJ
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[cm]	Graphic Lith. Bioturb.	Structure   Fossils	Sorting Round-ness					Color	Accessories	Core Disturbance	Description
			w	m	vp	bl	r				
0  10  20  30  40  50  60  70  80  90  100  110  120  130  140  150  160								2.54  2/5		mod	Green-gray silty-clay, with alternating cm-scale fine sand-silt horizons and silty-clay.

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 23	Type H	Section 1
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Date 28/1	Time	Observers SCJ
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Round-ness <small>w m vp bl r a</small>	Color	Accessories	Core Disturbance	Description
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160					2.5 φ 5/2		Slight	<p>Green-gray silty clay. Fine grained, well sorted with cm-scale laminations. Fine sand/silt laminations or mm-scale are</p> <p>Soft sed def. most likely not primary from drilling? cavity</p>

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 23	Type H	Section 2
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Date 28/1	Time	Observers SCJ
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting	Round-ness	Color	Accessories	Core Disturbance	Description
				w m vp bl r a					
0						2.5Y 5/2		light	Disturbed in places with groove marks down length core.
10									Green-grey fine grained clay with cm-scale laminations and mm scale fine sands/silty sands, possibly defining a series of fining upward cm-scale parasequences.
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									
160									


130 cm



# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 23	Type H	Section 3
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Date 28/1	Time	Observers SCJ
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting w m vp bl r a	Round-ness	Color	Accessories	Core Disturbance	Description
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160		[Handwritten marks in the Bioturb. column]	[Handwritten horizontal lines in the Structure   Fossils column]	[Empty Sorting column]	[Empty Round-ness column]	2.5Y 4/2	[Empty Accessories column]	[Empty Core Disturbance column]	Sweared surface and degraded along edge.

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 23	Type H	Section CC
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Date 28/1	Time	Observers SCS
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[cm]	Graphic Lith.	Lith.	Bioturb.	Structure   Fossils	Sorting	Round-ness	Color	Accessories	Core Disturbance	Description
					w m vp bl r	a				
0							2.5Y			Muddy smeared surface. Green-gray silty clay with cm-scale laminations
10							5/2			
20										
30										
40										
50										
60										
70										
80										
90										
100										
110										
120										
130										
140										
150										
160										

16cm






# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 24	Type H	Section 3
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Date 7/8/11	Time	Observers SCJ
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[cm]	Graphic Lith. Bioturb.	Structure   Fossils	Sorting Roundness w m vp bl r a	Color	Accessories Core Disturbance	Description
<div style="display: flex; align-items: center;">  <div style="margin-top: 10px;">24.5cm</div> </div>		<p>§</p> <p>≡</p>		<p>10Y</p> <p>4/2</p>		<p>Green gray clay fine grained with wa - con lam.</p> <p>SSD - drilling?</p>
0						
10						
20						
30						
40						
50						
60						
70						
80						
90						
100						
110						
120						
130						
140						
150						
160						










# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 25	Type H	Section 3
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Date 28/1	Time	Observers SCJ
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Roundness					Color	Accessories	Core Disturbance	Description
				w	m	vp	bl	r				
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160			S						10Y 5/2			Green gray clay, fine grained, well sorted, mm scale fine sand/silt all interbed.



# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 26	Type H	Section 1
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Date 1/29/14	Time	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting	Roundness	Color	Accessories	Core Disturbance	Description
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160									<p>0-24cm: highly disturbed, probably fall-in;</p> <p>24-150cm: Greenish grey and dark greenish grey interlaminated clayey silt and very fine sand (10Y 5/1 and 10Y 4/1) with dispersed clasts; planar and parallel sand laminae are ~2-5 mm thick with upward decrease in thickness and increase in spacing; cyclic with packages that are ~60-70cm thick (e.g. 24-79cm is one truncated cycle)</p> <p>- sharp contact at ~79cm</p> <p>- 79-84cm: greenish grey clayey silt with mm-sized dark grey mud intraclasts</p> <p>- 84-150cm: 2nd package of upward fining facies</p> <p>- changes in inclination of laminae from horizontal appearance to inclined</p> <p>- one rock clast ~1cm dia at 31 cm</p> <p>- moderately well sorted overall</p> <p>- very fine sand laminae are very well sorted</p>



# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 26	Type H	Section 3
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Date 27.01.14	Time 08:40	Observers MU/SP
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[cm]	Graphic Lith.	Bioturb.	Structure	Fossils	Sorting Roundness										Color	Accessories	Core Disturbance	Description			
					w	m	vp	bl	r	a											
0				clayey silt																greenish gray interbeds of fine sand and clayey silt (10Y 4/1)	
5				fine sand																	
10				clayey silt																	
15				fine sand																	
20				clayey silt																fine sand layer with weak undulating silt structures (11 bedding?)	
25																				partly washed (disturbed)	
30																				clayey silt layer with very weak lamination (partly disturbed)	
40																				well sorted	
50																				no bioturbation visible	
60																				moderately (clayey silt) to highly disturbed (fine sand)	
70																					
80																				fine sand layer mostly homogeneous	
90																					
100																					
110																					
120																					
130																					
140																					
150																					
160																					

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 26	Type H	Section CC
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Date 29.01.14	Time 08:58	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting w m vp bl r	Round-ness a	Color	Accessories	Core Disturbance	Description
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160									• greenish gray interlaminated sandy silt (10Y 4/1) • lamination thickness 0.3-1.5 cm • no bioturbation visible • well sorted • slightly disturbed • void 10-11 cm → washed sand?

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 27	Type H	Section 1
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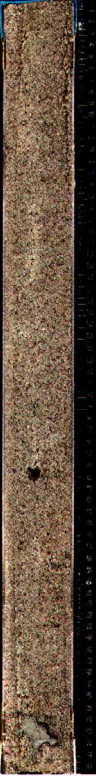

Date 1/29/14	Time	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting w m vp bl r a	Round-ness	Color	Accessories	Core Disturbance	Description
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160		11							<p>Dark grayish brown (2.5 <math>\phi</math>) fine to coarse sand, homogeneous moderately well sorted, with <sup>sub</sup>angular to rounded grains.</p> <p>- 1mm-scale shell fragments are present throughout</p> <p>- predominantly quartz with few iron-stained grains and black (coal?) clasts</p> <p>- core may be washed</p>

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 59	Hole D	Core 27	Type H	Section 2
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Date 1/29/14	Time	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Roundness w m vp bl r a	Color	Accessories	Core Disturbance	Description
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160								Dark grayish brown (2.5 - 4/2) fine to coarse sand, homogeneous, moderately well sorted with sub- to rounded grains - < 1mm shell frags.  - one mud clast at 61-64cm: silty clay