

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

Exp. 347	Site 62	Hole D	Core 2	Type H	Section 1
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Date 2/5/14	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	[Hand-drawn lithological column]	[Hand-drawn bioturbation column]	[Hand-drawn structure/fossils column]	[Hand-drawn sorting/roundness column]	[Hand-drawn color column]	[Hand-drawn accessories column]	[Hand-drawn core disturbance column]	<p>Very dark gray (N3) silty clay, highly disturbed with laminations still marginally visible. Sediment is very wet. Gas voids and bubble marks are present throughout.</p>

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

Exp. 347	Site 62	Hole D	Core 2	Type H	Section 2
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Date 2/5/14	Time	Observers MK/SP
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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									<p>Very dark greenish gray (10 Y 3/1) laminated silty clay core is moderately disturbed and laminae are bowed; lamina thickness is 1mm - 1cm scale numerous gas expansion voids and bubble necks,</p> <p>Black blebs at 119-120 cm and 130-131 cm and a black lamina ~ 1.5cm thick at 44-46cm.</p>
			↑						<p>≈ black</p>

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

Exp. 347	Site 62	Hole D	Core 2	Type H	Section 3
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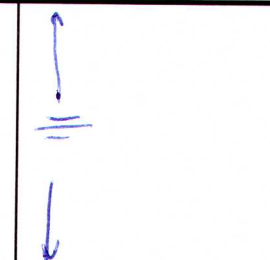

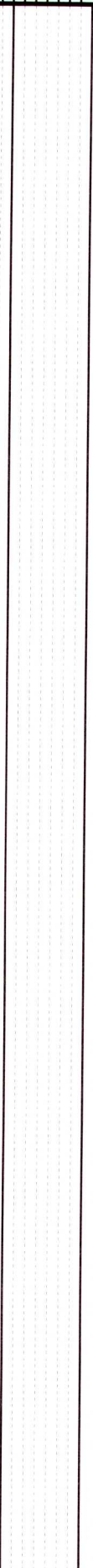

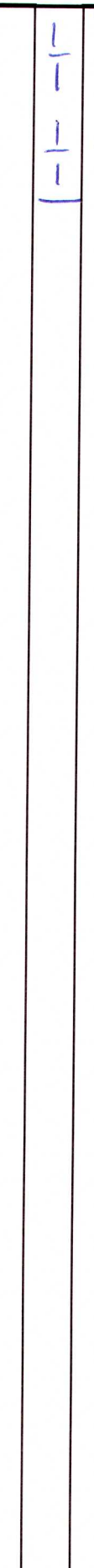





Date 2/5/14	Time	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Roundness	Color	Accessories	Core Disturbance	Description
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 5px;">0</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>		<div style="text-align: center;">  </div>	<div style="text-align: center;">  </div>	<div style="text-align: center;">  </div>	<div style="text-align: center;">  </div>	<div style="text-align: center;">  </div>	<div style="text-align: center;">  </div>	<p>Very dark greenish gray silty clay (10Y3/1) highly disturbed with a hint of lamination at 0-12 cm</p> <p>12-20cm: complete core catcher was found and removed</p>

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

Exp. 347	Site 62	Hole D	Core 2	Type H	Section CC
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Date 2/5/14	Time	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Roundness					Color	Accessories	Core Disturbance	Description	
				w	m	v	bl	r					a
0  10  20  30  40  50  60  70  80  90  100  110  120  130  140  150  160													Very dark greenish gray (10Y 3/1), laminated at a mm-scale, gas expansion bubbles

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

Exp. 347	Site 62	Hole D	Core 3	Type H	Section 1
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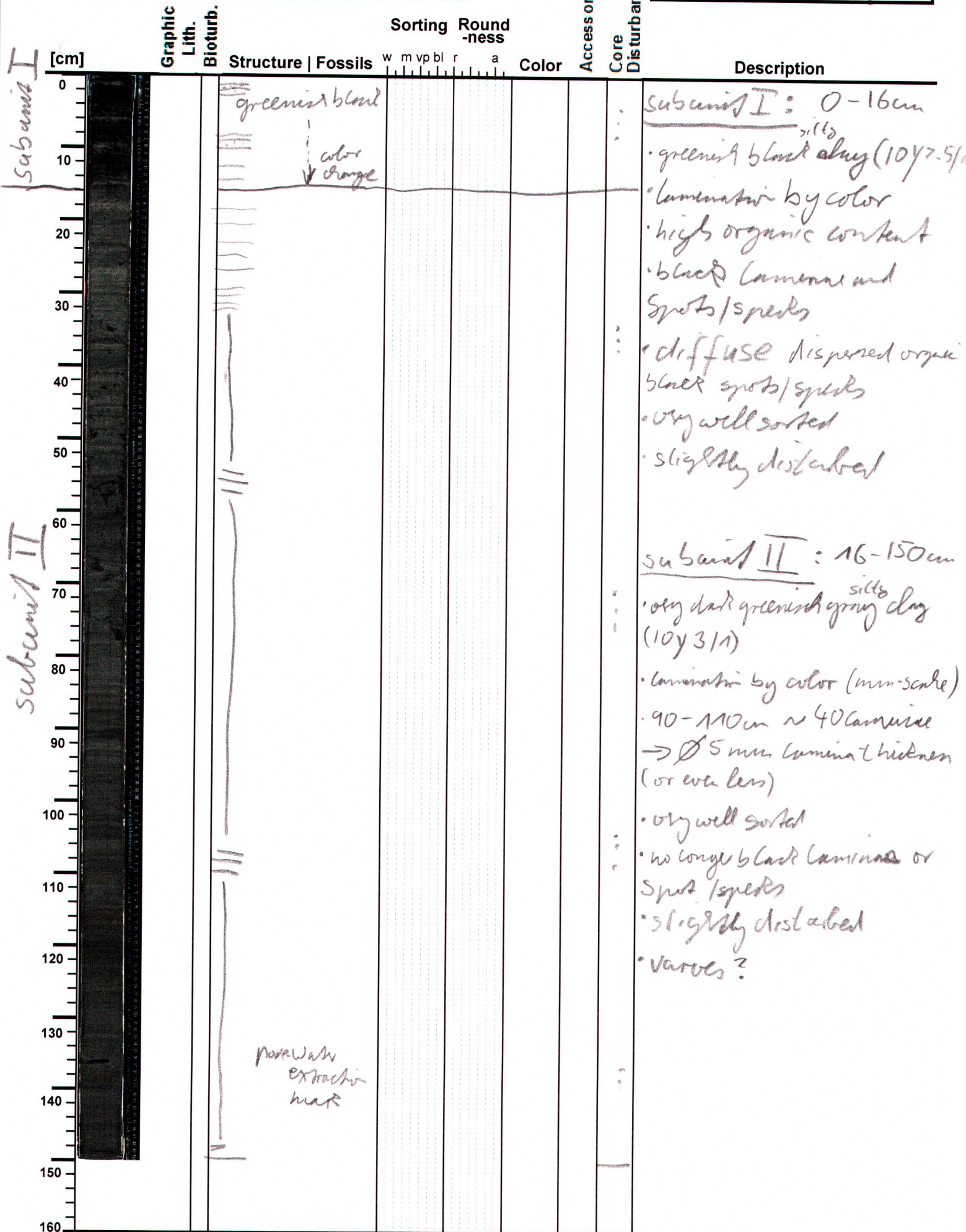
Date 05.02.14	Time 09:40	Observers MU/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting w m vp bl r a	Round-ness	Color	Accessories	Core Disturbance	Description
0	[Photograph of core section]								<ul style="list-style-type: none"> <li>• greenish black <sup>slts</sup> clay (10y2.5/1)</li> <li>• lamination by color</li> <li>• black organic-rich lamina and dark greenish black laminae</li> <li>• lamination not sharp, due to diffuse black organic content distribution</li> <li>• very well sorted</li> <li>• slightly disturbed (0-21cm highly disturbed)</li> <li>• laminar thickness in mm. scale</li> </ul>
10		disturbed							
20				black laminae					
30									
40									
50				black spot					
60									
70				black spot					
80									
90									
100									
110				black spot					
120									
130									
140									
150				is a syringe mark					
160									

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

Exp. 347	Site 62	Hole D	Core 3	Type H	Section 2
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Date 05.02.14	Time 10:00	Observers MUSP
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Subunit I

Subunit II

greenish bluish  
color change

pore water  
extraction  
mark



Subunit I: 0-16 cm  
 • greenish bluish <sup>silty</sup> clay (10Y 7.5/1)  
 • laminated by color  
 • high organic content  
 • black laminae and spots/spreads  
 • diffuse dispersed organic black spots/spreads  
 • very well sorted  
 • slightly disturbed

Subunit II: 16-150 cm  
 • very dark greenish gray <sup>silty</sup> clay (10Y 3/1)  
 • laminated by color (mm-scale)  
 • 90-110 cm ~ 40 laminae  
 → Ø 5 mm lamina thickness (or even less)  
 • very well sorted  
 • no large black laminae or spots/spreads  
 • slightly disturbed  
 • varves?

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

Exp. 347	Site 62	Hole D	Core 3	Type H	Section 3
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Date 05.07.14	Time 10:55	Observers MK/ISP
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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									<ul style="list-style-type: none"> <li>• very dark greenish gray <sup>silts</sup> clay (10/31)</li> <li>• lamination by color (m.m. scale)</li> <li>• very well sorted</li> <li>• slightly disturbed</li> <li>• 0-20 cm ~ 27 laminae</li> <li>→ Ø 7-8 mm laminae thickness</li> <li>• waves?</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 62	Hole D	Core 3	Type H	Section CC
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Date 05-02-14	Time 10:30	Observers MUSP
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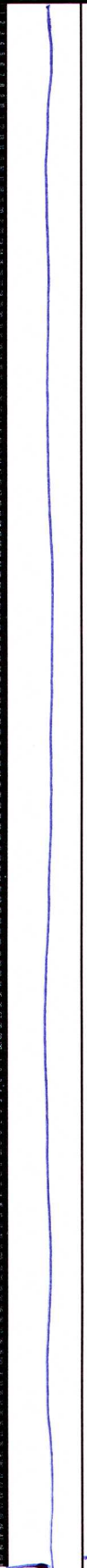




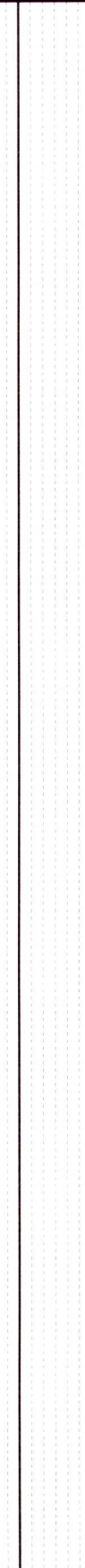


[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting	Round-ness	Color	Accessories	Core Disturbance	Description
				w m vp bl r	a				
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160			<div style="border: 1px solid black; padding: 2px; margin-bottom: 10px;">dark greenish gray clay</div> <div style="border: 1px solid black; padding: 2px;">greenish black</div>						- greenish black organic-rich silt clay (10Y 7.5/1) with very dark greenish gray imbedded (3-8 cm) <ul style="list-style-type: none"> <li>• laminated by color (diffuse) (mm-scale)</li> <li>• very well sorted</li> <li>• slightly disturbed</li> <li>• sul (pinks layer?)</li> </ul>



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

Exp. 347	Site 62	Hole D	Core 4	Type H	Section 1
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Date 2/5/14	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										0-11 cm: lightly disturbed
10										Greenish black
20										(10 Y 2.5/1) laminated silty clay; alternations of black and greenish gray laminae with black laminae becoming more diffuse and more widely spaced down the section
30										
40										
50										
60										laminae thickness is from 2mm to ~1cm.
70										
80										110-122 cm: bioturbation (sparse =)
90										
100										
110										
120										
130										129-150 cm: highly disturbed wet, with gas expansion voids
140										Very dark greenish gray (10 Y 4/1) silt, massive
150										
160										

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

Exp. 347	Site 62	Hole D	Core 4	Type H	Section 2
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Date 2/5/14	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 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160											<p>Very dark greenish gray (10 y 4/1) silt, probably laminated throughout; core is wet and has an uneven cut face; although color changes are observed, they coincide with changes in wetness and height of the core surface; laminae are <del>minimum</del> 1 to 1 cm thickness</p>	

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

Exp. 347	Site 62	Hole D	Core 4	Type H	Section 3
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Date 2/5/14	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  10  20  30  40  50  60  70  80  90  100  110  120  130  140  150  160										1 - 1  1 - 1  1 - 1	Very dark greenish gray (10Y 4/1) laminated silt, mm-<1 cm thickness with numerous gas expansion voids.	

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

Exp. 347	Site 62	Hole D	Core 4	Type H	Section CC
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Date 2/5/14	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 a					
0	[Redacted]								Dark greenish gray (10Y 4/1) silt; highly disturbed with numerous gas expansive voids
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 62	Hole D	Core 5	Type H	Section 1
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Date 2/5/14	Time	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure	Fossils	Sorting	Roundness	Color	Accessories	Core Disturbance	Description
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">0</div> <div style="margin-bottom: 10px;">10</div> <div style="margin-bottom: 10px;">20</div> <div style="margin-bottom: 10px;">30</div> <div style="margin-bottom: 10px;">40</div> <div style="margin-bottom: 10px;">50</div> <div style="margin-bottom: 10px;">60</div> <div style="margin-bottom: 10px;">70</div> <div style="margin-bottom: 10px;">80</div> <div style="margin-bottom: 10px;">90</div> <div style="margin-bottom: 10px;">100</div> <div style="margin-bottom: 10px;">110</div> <div style="margin-bottom: 10px;">120</div> <div style="margin-bottom: 10px;">130</div> <div style="margin-bottom: 10px;">140</div> <div style="margin-bottom: 10px;">150</div> <div style="margin-bottom: 10px;">160</div> </div>										<p>Very dark greenish gray (10 Y 3/1) laminated silt, parallel, planar, silt-day couplets are ~ 3 mm thick</p>

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

Exp. 347	Site 62	Hole D	Core 5	Type H	Section 2
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Date 2/5/14	Time	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting	Round-ness	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>		<p style="color: blue;">void</p>		<p style="font-size: small;">w m vp bl r a</p>	<p style="font-size: small;">a</p>	<p style="font-size: small;">Color</p>	<p style="font-size: small;">Accessories</p>	<p style="font-size: small;">Core Disturbance</p>	<p>Very dark greenish gray (10 Y 3/1) silt planar parallel lamination, slightly bowed due to coring lamina couplet thickness increases downcore from ~3mm at the top to ~4cm at 116 - 120cm, where the maximum width is observed; laminae thickness then decreases again from 120cm to 140cm (bottom of section) - pink colored laminae within couplets are present at 99 - 140cm (and are not drilling mud - was confirmed with drillers, who happened to be visiting)</p> <p>- 0-2cm : void</p>

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

Exp. 347	Site 62	Hole D	Core 5	Type H	Section 3
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Date 2/5/14	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	[Photograph of core sample]								
10		0							Very dark greenish gray (10Y 3/1)
20									laminated silt;
30									lamina thickness is 3-4 cm
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									
160									

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

Exp. 347	Site 62	Hole D	Core 5	Type H	Section CC
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Date 2/5/14	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									↘ Dark greenish gray (10 y 3/1) silt; ↘ massive, but probably disturbed by drilling









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

Exp. 347	Site 62	Hole D	Core 7	Type H	Section 2
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Date 2/5/14	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								<p>Very dark gray (5Y3/1) fine to medium sand abundant mica</p> <p>sediment is very wet and disturbed by drilling</p> <p>rock clast at 10-12cm granite! ~ 2cm <math>\phi</math></p>

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

Exp. 347	Site 62	Hole D	Core 7	Type H	Section 3
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Date 2/5/14	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 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160	[Redacted]	0						: : : : :	<p>Very dark gray (5Y3/1)</p> <p>fine to medium sand, abundant mica; possible weak bedding - variations in fine and medium sand</p>