



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

Exp. 347	Site 63	Hole C	Core 1	Type H	Section 2
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Date 07.02.14	Time 09.30	Observers MU/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting	Round-ness	Color	Accessories	Core Disturbance	Description (10Y 4/1)
				w m vp bl r a					
0	VOID		X VOID						<ul style="list-style-type: none"> <li>• dark greenish gray to greenish black organic-rich clay</li> <li>• very well sorted</li> <li>• highly disturbed</li> <li>• Knife marks (nothing)</li> <li>• a lot of cracks due to degassing (expanded)</li> <li>• faint lamination possible (mm-scale)</li> <li>• oxidized along cracks and cracks</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 63	Hole C	Core 1	Type H	Section 3
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Date 070714	Time 0940	Observers M4/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>                     } dark greenish grey                      organic rich clay (10Y4/1)                      • very well sorted                      • smeared surface                      • few black laminae                      } visible (mm-scale)                      • strongly oxidized                      • highly dehydrated                      (many cracks from                      degassing → expanded)                      • knife marks (cutting)                 </p>

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

Exp. 347	Site 63	Hole C	Core 2	Type H	Section 1
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Date 2/7/14	Time	Observers MK/SP
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[cm]	Graphic Lith.	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>32-118 cm: highly disturbed, part may be fall-in 0-32 cm <sup>short</sup> empty lines Greenish black (10Y 2.5/1) clay, laminated by color between black and greenish gray.</p> <p>- numerous gas expansion voids make observation difficult</p>
										118	



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

Exp. 347	Site 63	Hole C	Core 2	Type H	Section 2
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Date 2/7/14	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: 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>Greenish black (10Y 2.5/1) clay, laminated on a mm to cm scale by color possible sparse bioturbation visible in greenish gray intervals</p> <p>125-150 cm: "mat"-like laminae with variations in texture and almost completely black; no visible bioturbation (0)</p>
			<p style="text-align: center;">"mat"-like</p>						







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

Exp. 347	Site 63	Hole C	Core 4	Type H	Section 1
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Date 2/7/14	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									Black (N2.5/1) clay 0-30 cm: highly disturbed bed
10									
20									30-150 cm: moderately disturbed bed
30									Numerous gas expansion voids make observation difficult.
40									
50									Weak lamination visible at 113-150 cm where the core becomes a bit more intact, lamination is by color between black and greenish gray laminae
60									
70									0-70 cm: completely black with "mat"-like structure
80									
90									80-150 cm: more clayey
100									
110									
120									
130									
140									
150									
160									

VOID





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

Exp. 347	Site 63	Hole C	Core 4	Type H	Section 2
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Date 2/7/14	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												Black (N2.5/1) clay, laminated on a mm-scale by color; numerous gas expansion voids (bubble escapes)	













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

Exp. 347	Site 63	Hole C	Core 7	Type H	Section 1
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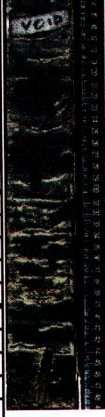
Date 07/02/14	Time 13:00	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Round-ness					Color	Accessories	Core Disturbance	Description
				w	m	vp	bl	r				
0												• back to greenish gray (M25) organic-rich clay with
10												• lamination by color (sub-mm scale)
20												• 0-70 cm soupy
30												• very well sorted
40												• oxidized along cracks (87-150 cm)
50												• expansion cracks due to degassing
60												• Void 116-118 cm
70												• syringe mark at 145-150 cm
80												• mottled part → sparse bioturbation?
90												
100												
110												
120												
130												
140												
150												
160												

highly disturbed

lamination by color (sub-mm-scale) (partly mottled)

syringe mark



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

Exp. 347	Site 63	Hole C	Core 7	Type H	Section 2
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Date 07 02 14	Time 13:05	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 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160			<p style="font-size: small;">Lamination by color (mottled)</p>						<ul style="list-style-type: none"> <li>• blank to greenish gray organic-rich clay</li> <li>• lamination by color (mottled → bioturbation)</li> <li>• very well sorted</li> <li>• few voids 30-35cm</li> <li>• some cracks due to expansion (deicing)</li> <li>• lamination &amp; sub-mill-scale</li> <li>• oxidized along cracks 60-100cm</li> </ul>



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

Exp. 347	Site 63	Hole C	Core 8	Type H	Section 1
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Date 7/2/14	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
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160	VOID				N/2.5		VOID mod	<p>Black, organic-rich clay, Fine grained, well sorted, with faint mm-scale lamination</p> <p>Soupy upper 55cm</p> <p>Pervasive cracks across core from 55cm onwards.</p> <p>Olive green oxidation along cracks and dominant towards base.</p>
	VOID						VOID	
	VOID						VOID	
	VOID						VOID	

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

Exp. 347	Site 63	Hole C	Core 8	Type H	Section 2
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Date 7/2/14	Time	Observers SCT
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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]					W2.5		mod	Black organic rich clay. Fine grained, well sorted with mm scale lamination showing some bioturbation.  Broken in upper 10cm with deep cracks across core throughout the rest of the core.
10									
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									
160									
									Broken and oxidised base.



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

Exp. 347	Site 63	Hole C	Core 9	Type H	Section 1
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Date 17:15	Time 17:10	Observers MK/SP
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[cm]	Graphic Lith.	Lith.	Bioturb.	Structure   Fossils	Sorting	Round-ness	Color	Access ories	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>highly disturbed</p> <hr style="border: 0.5px solid black;"/> <ul style="list-style-type: none"> <li>• black to dark greenish grey clay (N7.5) (organic-rich)</li> <li>• lamination by color (sub mm - mm scale) ⇒ patchy mottled</li> <li>• sparse bioturbation</li> <li>• very well sorted</li> <li>• 125 - 150 cm oxidized along core lens and cracks</li> <li>• some expansion cracks due to degassing</li> </ul>

lamination by color (mottled) (sub mm - mm scale)





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

Exp. 347	Site 63	Hole C	Core 10	Type H	Section 1
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
Date 7/2/14	Time	Observers SCT
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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									V015	V015	<p>Black, organic-rich clay. Fine grained, well sorted heavily distorted with voids (methane?) and cavities. Green oxidation in places.</p> <p>soapy</p> <p>slight</p> <p>@ 85cm Olive green-gray clay. Fine grained, well sorted. mm scale laminations (faint) - slightly mottled with pervasive cracks</p>	
								N2.5				
								5Y 4/1				

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

Exp. 347	Site 63	Hole C	Core 10	Type H	Section 2
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Date 7/2/14	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 a					
0						5Y		slight	<p>Green-gray clay mm-scale colour lamination with expansion cracks throughout, utilising (lamination boundaries?)</p> <p>Expansion cracks causing laminations to deform and curve slightly</p> <p>Shift from clay to silty clay in some laminations,</p> <p>Light brown bands - interesting texture - not primary. Oxidation of organic-mat. material?</p>
10						4/1			
20						5/1			
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 63	Hole C	Core 12	Type H	Section 2
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Date 7/2/14	Time	Observers SCJ/SBJ
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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	[Photograph of core sample]					10Y 3/1			<p>Gray to brownish gray clay</p> <p>Fine grained, well sorted</p> <p>fine, mm-scale colour lamination throughout.</p> <p>Pervasive cracks across surface.</p> <p>Silty clay intervals</p> <p>Oxidation of organics - light laminae.</p> <p>93-105cm Gray clay with mm scale laminations appears less affected and cracked.</p>

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

Exp. 347	Site 63	Hole C	Core 13	Type H	Section 1
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Date 7/2/14	Time	Observers SCJ/JBJ
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting	Roundness	Color	Accessories	Core Disturbance	Description	
				w m vp bl r a						
0						N		void	Black organic rich clay. Heavily distorted and oxidized to olive green. - no visible internal structure	
10						2.5		poor		
20										
30										
40										
50							5/			
60							4/2			
70								void		
80										
90										
100										
110										
120										
130										
140										
150										
160										

Drilling distortion?






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

Exp. 347	Site 63	Hole C	Core 13	Type H	Section CC
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Date 7/2/14	Time	Observers SCS/SBS
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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						N/2.5		poor VOID	Black, organic-rich clay. Fine grained, well sorted heavily distorted and oxidized - no visible internal structure.



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

Exp.	Site	Hole	Core	Type	Section
347	63	C	14	H	2

Date	Time	Observers
7/2/14	16:50	JBT/OST

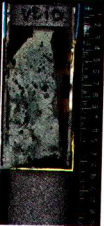
[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Roundness	Color	Accessories	Core Disturbance	Description
				w m vp bl r a				
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 5px;">0</div> <div style="margin-bottom: 5px;">10</div> <div style="margin-bottom: 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>N5</p> <p>N 2.5</p>			<p>CRAY, CLAY, WEAK LAMINATION BY COLOR, BLACK SULPHIDE LAMINA WEAK, CM SCALE.</p> <p>VERY WELL SORTED</p> <p>SLIGHTLY DISTURBED.</p>



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

Exp. 347	Site 63	Hole C	Core 14	Type H	Section CC
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Date 7/2/14	Time 16:45	Observers BJT/CSJ
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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									N5			GRAY, CLAY, VERY WELL SORTED, HEAVILY DISTURBED - SOUPY.	



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

Exp. 347	Site 63	Hole C	Core 15	Type H	Section 2
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Date 7/2/14	Time	Observers SCJ/JSJ
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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									<p>Gray clay, Fine grained, well sorted. Surface smeared and distorted, especially in upper half.</p> <p>No visible internal structure - homogenous.</p>
10						10Y			
20						5/1			
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 63	Hole C	Core 16	Type H	Section 1
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Date 7/2/14	Time 17:30	Observers JBJ/CSJ
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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									N/S		GRAY, CLAY, SOUPY TO HEAVILY DISTURBED, VERY WELL SORTED.	

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

Exp. 347	Site 63	Hole C	Core 16	Type H	Section 2
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Date 7/2/14	Time 17:30	Observers JBJ/OSJ
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Roundness					Color	Accessories	Core Disturbance	Description
				w	m	v	p	bl				
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160									N / G		GRAY, CLAY, MASSIVE, HEAVILY DISTURBED, VERY WELL SORTED.	



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

Exp. 347	Site 63	Hole C	Core 17	Type H	Section 1
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Date 7/2/14	Time	Observers SCS/JSJ
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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 5/1		soupy	Gray clay. Fine grained well sorted.  Heavily distorted and soupy. No visible internal structure.	



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

Exp. 347	Site 63	Hole C	Core 17	Type H	Section 2
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Date 7/2/14	Time	Observers SCT/TOJ
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[cm]	Graphic Lith. Bioturb.	Structure   Fossils	Sorting Roundness										Color	Accessories	Core Disturbance	Description	
			w	m	vp	bl	r	a									
0	[Photograph of core section from 0 to 150 cm]													104			<p>Gray clay. Fine grained, well sorted, Core heavily degraded (expansion?) with cracks and 'clumpy' appearance.</p> <p style="text-align: center; margin-top: 100px;">98.5 - 100 cm</p>
10																	
20																	
30																	
40																	
50																	
60																	
70																	
80																	
90																	
100																	
110																	
120																	
130																	
140																	
150																	
160																	


soupy to highly degraded

VOID

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

Exp. 347	Site 63	Hole C	Core 17	Type H	Section 3
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Date 7/2/14	Time	Observers SCS/SBS
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Round-ness						Color	Access ories	Core Disturbance	Description
				w	m	vp	bl	r	a				
0												Gray clay. Fine grained well sorted.	
10									104				
20									5/1				Heavily distorted, high water content.
30													Surface distorted, 'clumpy'
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													
160													

45cm

poor







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

Exp. 347	Site 63	Hole C	Core 18	Type H	Section 2
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Date 7/2/14	Time 18:50	Observers JBT/MSJ
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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									N/5			GRAY, CLAY, HEAVILY DISTURBED, INTERVAL 26-29 CM, SANDY CLAY, VERY WELL SORTED.

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

Exp. 347	Site 63	Hole C	Core 18	Type H	Section 3
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Date 7/2/14	Time 17:52	Observers JBS/CSJ
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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									W/ /S			GRAY, CLAY, HEAVILY DISTURBED, VERY WELL SORTED	



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

Exp. 347	Site 63	Hole C	Core 18	Type H	Section CC
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Date 7/2/14	Time 17:55	Observers JBT/CSY
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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; 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>N /5</p>		<p>CRIMY, CLAY, HEAVILY DISTURBED VERY WELL SORTED.</p>

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

Exp. 347	Site 63	Hole C	Core 19	Type H	Section 1
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Date 7/2/14	Time	Observers SCT/SBS
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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						N/4			<p>Gray clay. Fine grained, well sorted.</p> <p>Cavities along core edge in upper 35cm. Surface pitted and distorted, - no visible internal structure</p>
10									
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									
160									

soupy

@ 130cm - dark patch cm-scale (smearing?)

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

Exp. 347	Site 63	Hole C	Core 19	Type H	Section 2
-------------	------------	-----------	------------	-----------	--------------

Date 7/2/14	Time	Observers SCS/JSJ
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[cm]	Graphic Lith. Bioturb.	Structure   Fossils	Sorting Round-ness					Color	Accessories	Core Disturbance	Description
			w	m	vp	bl	r				
0											Gray clay. Fine grained, well sorted with mm-scale fine sand-silt intervals.
10											
20											
30											Abundant mud-clay intraducts mm to cm scales, supported by the gray clay.
40											
50											
60											
70											
80											
90											
100											
110											
120											
130											
140											
150											
160											

N/C

Slight

Blade shearing - poss organic rich clay intervals? - distorted during core splitting



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

Exp. 347	Site 63	Hole C	Core 20	Type H	Section 1
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Date 7/2/14	Time	Observers SCJ/SBS
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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						10ay 4/1		sandy	Gray clay. Fine grained well sorted  Core loss in upper 35 cm ≈ 40%.  Surface heavily distorted with a 'chumpy' appearance.








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

Exp. 347	Site 63	Hole C	Core 20	Type H	Section CC
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Date 7/2/14	Time	Observers SCT/SBS
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[cm]	Graphic Lith. Bioturb.	Structure   Fossils	Sorting w m vp bl r a	Round-ness	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 style="margin-left: 20px;">21cm</p>			<p style="margin-left: 20px;">10a4</p>		<p style="margin-left: 20px;">Void @ 22-29cm</p>	<p>Gray clay, Fine grained well sorted, Disturbed surface - no visible internal structure.</p>

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

Exp. 347	Site 63	Hole C	Core 21	Type H	Section 1
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Date 7/2/14	Time 20:00	Observers JB/cst
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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								N 5		~~~~~  ~~~~~	GRAY, CLAY, SOUPY, VERY WELL SORTED.	
								N 5			GRAY, CLAY, MASSIVE VERY WELL SORTED, HEAVILY DISTURBED.	






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

Exp. 347	Site 63	Hole C	Core 21	Type H	Section 3
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Date 7/2/14	Time 20:08	Observers JBT/CSY
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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						N 5			CRAY, CLAY, WEAK LAMINATION BY COLOR, CM SCALE BLANK WEAK LAMINA SULPHIDE, VERY WELL SORTED, MODERATELY DISTURBED.
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 63	Hole C	Core 21	Type H	Section CC
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Date 7/2/14	Time 20:10	Observers JBS/MSJ
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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									N 5			GRAY, CLAY, MASSIVE, HEAVILY DISTURBED, VERY WELL SORTED	

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

Exp. 347	Site 63	Hole C	Core 22	Type H	Section 1
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Date 7/2/14	Time	Observers SCS/SBJ
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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								<p>Heavily degraded and water saturated upper half. Broken and distorted surface.</p> <p style="text-align: center; margin-left: 20px;">soupy</p> <p style="margin-left: 20px;">5G 4/1</p> <p style="margin-left: 20px;">slight</p> <p>Gray clay. Fine grained, well sorted with mm-cm scale black laminations (smeared) or organic rich/sulphidic material in lower most 40cm.</p>



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

Exp. 347	Site 63	Hole C	Core 22	Type H	Section 2
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Date 7/2/14	Time	Observers SCJ/JBJ
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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						5G 4/1		Slight	<p>Gray clay, Fine grained, well sorted with v. faint mm scale lamination.</p> <p>In uppermost 30 cm mm - cm scale black, organic-rich / sulphidic laminations smeared during splitting</p> <p>From there massive, mm-laminated gray clay.</p>

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

Exp. 347	Site 63	Hole C	Core 22	Type H	Section 3
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Date 7/2/14	Time	Observers SCS/JBJ
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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											mod Gray clay, Fine grained, well sorted with faint mm-scale lamination expressed as minor colour variation	
			29.5cm					10G4 4/1				





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

Exp. 347	Site 63	Hole C	Core 23	Type H	Section 1
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Date 7/2/74	Time 20:40	Observers JB/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 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160											54 4/1			DARK GRAY, CLAY, HEAVILY DISTURBED, MANY VOIDS - CRACKS VERY WELL SORTED.
											54 4/1		DARK GRAY, CLAY, WEAK LITHINATION CM SCALE BY COLOR. VERY WELL SORTED, SLIGHTLY DISTURBED.	









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

Exp. 347	Site 63	Hole C	Core 24	Type H	Section 1
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Date 2/8/14	Time	Observers MK/JP
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[cm]	Clasts Graphic Lith.	Bioturb.	Structure	Fossils	Sorting Round-ness					Color	Accessories	Core Disturbance	Description
					w	m	vp	bl	r				
0	Photograph of core section												0-64 cm: highly disturbed by core
10													64-115 cm: deformed core; weak lamination
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													
160													

0-64 cm: highly disturbed by core

64-115 cm: deformed core; weak lamination

Dark gray (5Y 4/1) clay with dispersed clasts; weakly laminated by color; dispersed sand grains are present and one granule at 77cm

64

115

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

Exp. 347	Site 63	Hole C	Core 24	Type H	Section 2
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Date 2/8/14	Time	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Round-ness w m vp bl r a	Color	Access ories	Core Disturbance	Description
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160		<div style="text-align: center;">↑</div> <div style="text-align: center;">0</div> <div style="text-align: center;">↓</div>					<div style="text-align: center;">↑</div> <div style="text-align: center;">0</div> <div style="text-align: center;">↓</div>	<p>Dark gray (S Y 4/1) laminated clay</p> <p>0-<del>74</del><sup>59</sup> cm: well-laminated with light colored laminae spaced ~4 cm; varve-like</p> <p>59-109 cm: weakly laminated</p> <p>109-121 cm: clay with common invertebrates or burrowed clay</p> <p>109-114 cm looks like a soft-sediment shear-zone with horizontal fabric; Sharp boundary at 109 cm.</p>



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

Exp. 347	Site 63	Hole C	Core 24	Type H	Section CC
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Date 2/8/14	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		0	↑ ↓					Dark gray (5Y 4/1) clay with common microlasts; irregular fabric, massive





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

Exp. 347	Site 63	Hole C	Core 25	Type H	Section 2
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Date 08.02.14	Time 09.45	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								0-12cm highly disturbed	
10									
20				~					• dark gray (3/4/1) clay
30				~					• lamination by color but extremely deformed → slumping?
40				~					• clay intercalated
50				~					• clay drops and lenses
60				~					• minor isolated silt lenses
70				~					• clast at 54-56cm → optik-sand very irregular (dropstone)
80				~					→ clay with dispersed clasts
90				~					• very well sorted
100				~					• slightly disturbed
110				~					
120				~					
130				~					
140				~					
150				~					
160			~						



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

Exp. 347	Site 63	Hole C	Core 25	Type H	Section CC
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Date 08.02.14	Time 07:50	Observers MVA/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Round-ness					Color	Accessories	Core Disturbance	Description
				w	m	vp	bl	r				
<div style="display: flex; align-items: center;">  <div style="flex-grow: 1;"> <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> </div>			~~~~~ ~~~~~ ~~~~~								• dark gray clay (SY 4/17) • org well sorted • lamination by color (m.k. scale) • strong deformed (slumping or convolute bedding) • in-situ • soft-sediment deformation (primary sed. feature) • slightly disturbed • stiff clay	





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

Exp. 347	Site 63	Hole C	Core 26	Type H	Section 2
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Date 2/8/14	Time	Observers MK/JP
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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>										<p>Interlaminated dark gray (5Y 4/1) and dark grayish brown (2.5Y 4/2) clay; bedding is strongly contorted and micro faulted</p> <ul style="list-style-type: none"> <li>- mm-scale sand laminae (stringers) at 73-77, steeply inclined and disrupted by slumping</li> <li>- mm-scale silt laminae disrupted, at 8 cm</li> <li>- inclined shear fabric is overprinted by horizontal offset (fault) at 29 cm</li> <li>- 0-14 cm: tight fold noses in a horizontal fabric over a steeply inclined bedding affected by horizontal faulting: two events on top of each other?</li> </ul>



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

Exp. 347	Site 63	Hole C	Core 26	Type H	Section CC
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Date 2/8/14	Time	Observers MK/SP
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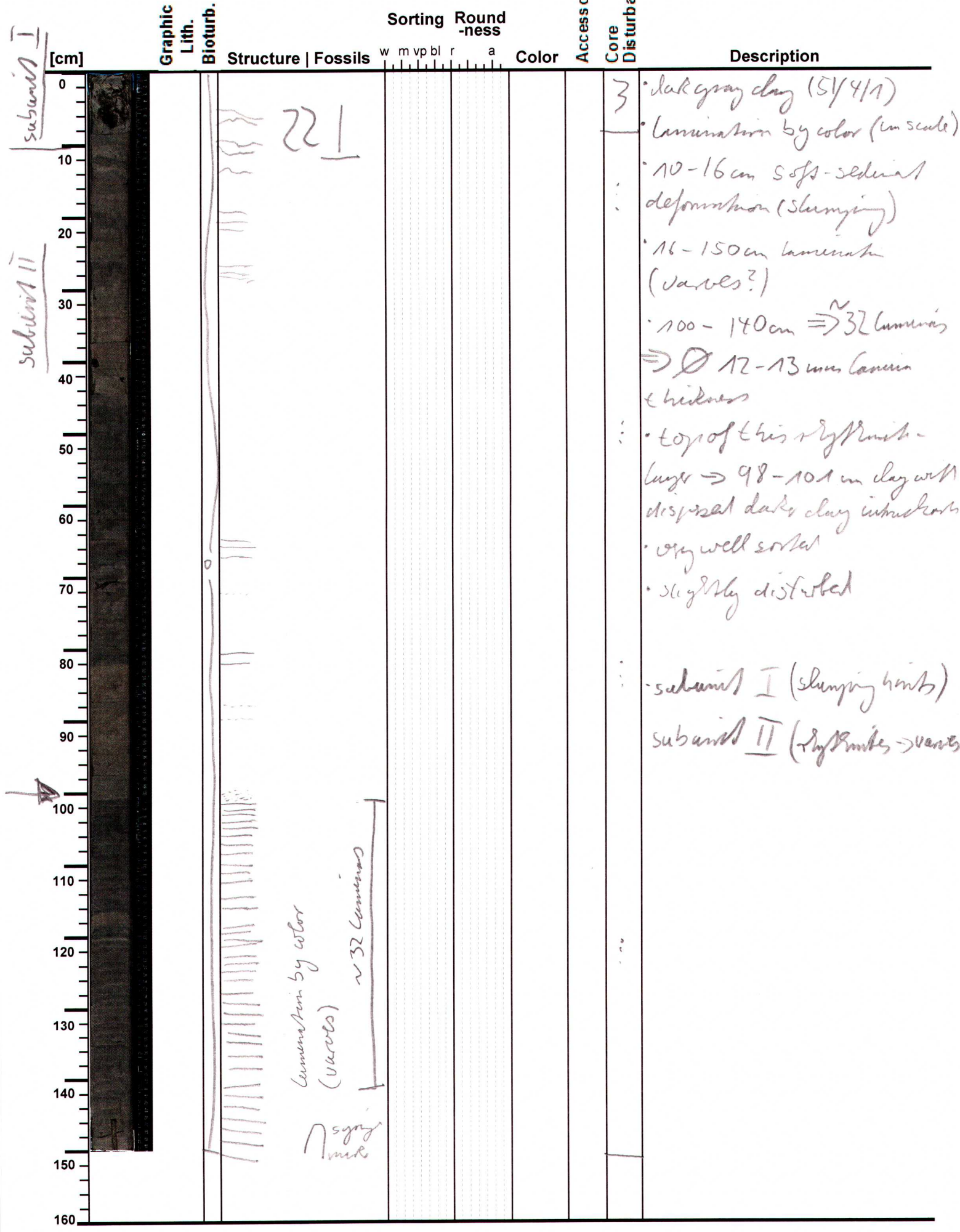
[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting w m vp bl r a	Round-ness	Color	Accessories	Core Disturbance	Description
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160		0							: Dark gray (5Y 4/1) horizontal laminated clay; planar, parallel laminae by color



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

Exp. 347	Site 63	Hole C	Core 27	Type H	Section 1
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Date 08.02.14	Time 10:40	Observers MK/SP
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subunit I

subunit II

221

lamination by color (varves)

~ 32 laminae

slumping units

3

dark gray clay (S1/4/1)

lamination by color (cm scale)

10-16 cm soft-sediment deformation (slumping)

16-150 cm laminae (varves?)

100-140 cm => 32 laminae

=> 12-13 mm lamina thickness

top of this rhythmic layer -> 98-101 cm clay with dispersed dark clay inclusions

very well sorted

slightly disturbed

subunit I (slumping units)

subunit II (rhythmic -> varves)











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

Exp. 347	Site 63	Hole C	Core 28	Type H	Section 1
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Date 08.02.14	Time 11:40	Observers M4/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								<p>0-10cm highly disturbed (fall-in)</p> <p>• dark gray clay (3/4/11)</p> <p>• laminated by color (faint)</p> <p>• some silty clay laminae (mm-scale)</p> <p>• very well sorted</p> <p>• slightly disturbed</p> <p>• 109-120cm dispersed sand grains (119cm sandy clay layer)</p> <p>• 109cm sand pocket (2mm Ø)</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 63	Hole C	Core 28	Type H	Section 2
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Date 08-07-14	Time 12:00	Observers MK/SP
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[cm]	Graphic Lith.	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	[Image of core sample]									<ul style="list-style-type: none"> <li>• dark gray clay with</li> <li>• faint lamination by color (mm - cm scale)</li> <li>• very well sorted</li> <li>• slightly disturbed</li> <li>• some laminae looked disrupted</li> <li>• dust at 84cm</li> <li>• disrupted sand grains 77-85cm</li> <li>• with disrupted clasts</li> </ul>
		↑			•					







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

Exp. 347	Site 63	Hole C	Core 29	Type H	Section 2
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Date 08.02.14	Time 17:40	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			<p style="margin-left: 40px;">sandy-silty clay lamina</p> <p style="margin-left: 40px;">silty clay lamina</p> <p style="margin-left: 40px;">nodule</p>					<ul style="list-style-type: none"> <li>• dark gray clay with laminations by color and grain size (25/41)</li> <li>• sandy-silty clay lamina at 50-77m</li> <li>• very well sorted</li> <li>• lamination in non-silted wet</li> <li>• can't find laminae of homogeneous clay</li> <li>• concretions at 94-97m</li> <li>→ spherical (with sand grains at bottom)</li> </ul>

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

Exp. 347	Site 63	Hole C	Core 29	Type H	Section 3
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Date 08.02.14	Time 12:48	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
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 100%; border-bottom: 1px solid black; margin-bottom: 5px;">0</div> <div style="width: 100%; border-bottom: 1px solid black; margin-bottom: 5px;">10</div> <div style="width: 100%; border-bottom: 1px solid black; margin-bottom: 5px;">20</div> <div style="width: 100%; border-bottom: 1px solid black; margin-bottom: 5px;">30</div> <div style="width: 100%; border-bottom: 1px solid black; margin-bottom: 5px;">40</div> <div style="width: 100%; border-bottom: 1px solid black; margin-bottom: 5px;">50</div> <div style="width: 100%; border-bottom: 1px solid black; margin-bottom: 5px;">60</div> <div style="width: 100%; border-bottom: 1px solid black; margin-bottom: 5px;">70</div> <div style="width: 100%; border-bottom: 1px solid black; margin-bottom: 5px;">80</div> <div style="width: 100%; border-bottom: 1px solid black; margin-bottom: 5px;">90</div> <div style="width: 100%; border-bottom: 1px solid black; margin-bottom: 5px;">100</div> <div style="width: 100%; border-bottom: 1px solid black; margin-bottom: 5px;">110</div> <div style="width: 100%; border-bottom: 1px solid black; margin-bottom: 5px;">120</div> <div style="width: 100%; border-bottom: 1px solid black; margin-bottom: 5px;">130</div> <div style="width: 100%; border-bottom: 1px solid black; margin-bottom: 5px;">140</div> <div style="width: 100%; border-bottom: 1px solid black; margin-bottom: 5px;">150</div> <div style="width: 100%; border-bottom: 1px solid black; margin-bottom: 5px;">160</div> </div>			<p style="margin-left: 20px;"><i>disrupted laminations</i></p>	Sorting Roundness columns	Color column	Accessories column	Core Disturbance column	<p>dark gray clay (7.54 4/11)</p> <ul style="list-style-type: none"> <li>• Lamination by color and grain size</li> <li>• very well sorted</li> <li>• few laminae look disrupted (slightly)</li> <li>• slightly disrupted</li> </ul> <p>• 0-20 cm → ~ 36 laminae → Ø 5-6 cm lamina thickness</p>



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

Exp. 347	Site 63	Hole C	Core 30	Type H	Section 1
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Date 2/8/14	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			<div style="position: relative; height: 100%;"> <span style="position: absolute; top: 50%; left: -50%; transform: translate(-50%, -50%); font-size: 2em;">0</span> </div>						<p>Dark gray (2.5Y 4/1) clay, planar, parallel laminated by color;</p> <ul style="list-style-type: none"> <li>- laminae are uneven thickness between 2mm and 6cm;</li> <li>Some laminae have a reddish hue</li> <li>- some mottling, possible bioturbation is visible at 113-120cm; possibly also contorted bedding (more likely)</li> <li>- 0-13cm: highly disturbed</li> <li>- silt lamina at 71cm</li> </ul>



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

Exp. 347	Site 63	Hole C	Core 30	Type H	Section 2
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Date 2/8/14	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			<p style="text-align: center;">↑</p> <p style="text-align: center;">varve-like</p> <p style="text-align: center;">=</p> <p style="text-align: center;">//</p> <p style="text-align: center;">/</p> <p style="text-align: center;">↓</p>						<p>Dark gray (2-5Y4/1) planar parallel laminated clay; laminated by color at 2 mm to 5 cm thick, unevenly distributed throughout the section</p> <ul style="list-style-type: none"> <li>- silt laminae are present at 41, 76, 90, 91, 97, 139, 144 cm (sub-mm thickness).</li> <li>- varvelike <del>laminae</del><sup>complexes</sup> with light-colored ("summer") laminae grading up into darker ("winter") laminae are observed at 46-49 cm and some other isolated portions of the section</li> <li>- microfault at 96-100 cm</li> <li>- some conjugate <sup>micro</sup> faults at 44-47 cm and 112-115 cm</li> </ul>





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

Exp. 347	Site 63	Hole C	Core 31	Type H	Section 1
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Date 08.07.14	Time 14:05	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														0-5cm highly disturbed
10														• dark gray clay (7.5/4/1)
20														• lamination by color and grain size
30														• silt and f.-sand laminae
40														at 60cm, 135cm
50														• 50-150cm homogeneous laminae (thickness increase to bottom → 1 → 4cm)
60														• very well sorted
70														
80														
90														
100														
110														
120														
130														
140														
150														
160														

fine sand lamina

more homogeneous laminae (thickness increase)  
4cm

fine sand lamina

squeeze mark



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

Exp. 347	Site 63	Hole C	Core 31	Type H	Section 2
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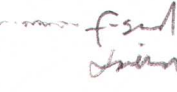
Date 08.02.14	Time 14:15	Observers MK/SP
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[cm]	Graphic Lith.	Lith.	Bioturb.	Structure   Fossils	Sorting	Round-ness	Color	Accessories	Core Disturbance	Description
					w m vp bl r	a				
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160										<ul style="list-style-type: none"> <li>• dark gray clay (2.5Y 4/1)</li> <li>• Lamination by color and grain size</li> <li>• silty clay and silt laminae (mm-scale)</li> <li>• very well sorted</li> <li>• slightly disturbed</li> <li>• homogeneous parts at 10-54cm, 55-58cm, 61-67cm, 90-97cm, 123-136cm</li> </ul>

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

Exp. 347	Site 63	Hole C	Core 31	Type H	Section 3
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Date 080214	Time 14:20	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			 <p style="margin-left: 20px;">fine sand lamina</p>	w m vp bl r a	w m vp bl r a	w m vp bl r a	w m vp bl r a	w m vp bl r a	w m vp bl r a	w m vp bl r a	w m vp bl r a	<p>• dark gray clay with laminae by color and grain size (2.5/4/1)</p> <p>• silt and f-sand laminae</p> <p>• lamination is mm-scale</p> <p>• homogeneous with at 27-27cm</p> <p>• very well sorted</p> <p>• fine-sand laminae at 35cm</p>

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

Exp. 347	Site 63	Hole C	Core 31	Type H	Section CC
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Date 08.02.14	Time 14:40	Observers M4/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		1		clast •							• dark grey clay with dispersed clast (2.5/4/1) • very well sorted • clast at 7cm (angular) • bottom part highly disturbed (dull) • lamination by color	



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

Exp. 347	Site 63	Hole C	Core 32	Type H	Section 1
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Date 2/8/14	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 style="font-size: 1.2em;">Dark gray (2-5Y4/1) planar, parallel, laminated clay with common sub-mm silt laminae</p> <p><del>100</del> lamination by color at 2mm to 10cm (massive clay interbedded at 45-55cm)</p>
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													
160													

massive

0

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

Exp. 347	Site 63	Hole C	Core 32	Type H	Section 2
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Date 2/8/14	Time	Observers MK/SP
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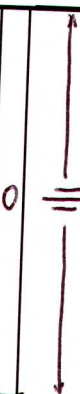
[cm]	Graphic Lith.	Bioturb.	Structure	Fossils	Sorting	Round-ness	Color	Accessories	Core Disturbance	Description
0										Dark gray (2.5 Y 4/1) planar, parallel, laminated clay with common sub-mm silt laminae lamina thickness from 2 mm to 19 cm massive clay interbeds (65-84 cm). 3mm-thick & very fine sand lamina at 86 cm carbonate concretions at 89-91 cm
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 63	Hole C	Core 32	Type H	Section 3
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Date 2/8/14	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										: Dark gray (2.5Y4/1) : planar, parallel : laminated clay; : lamination by : color and with : common silt laminae






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

Exp. 347	Site 63	Hole C	Core 33	Type H	Section 1
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Date 8/2/14	Time	Observers SCT/JBT
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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						10Y 5/1		slight	Green-gray clay to silty clay, with v. fine mm-scale color laminations. Well sorted, fine grained. mm scale fine sand-silt laminations occurring over cm scales, but often at unequal spacings.






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

Exp. 347	Site 63	Hole C	Core 33	Type H	Section 3
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Date 8/2/14	Time	Observers SCT/SOS
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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					10Y 5/1		slight	Green gray clay. Well sorted and fine grained. Faint mm-cm scale lamination.  Interbedded mm-scale fine sand-silt laminations.

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

Exp. 347	Site 63	Hole C	Core 33	Type H	Section CC
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Date 8/2/14	Time	Observers SEJ/TBS
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[cm]	Graphic Lith. Bioturb.	Structure   Fossils	Sorting w m vp bl r a	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>10Y</p> <p>5/1</p>			<p>surface distorted - no visible structures.</p> <p>Green-gray clay. Well sorted and fine grained.</p>














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

Exp. 347	Site 63	Hole C	Core 34	Type H	Section CC
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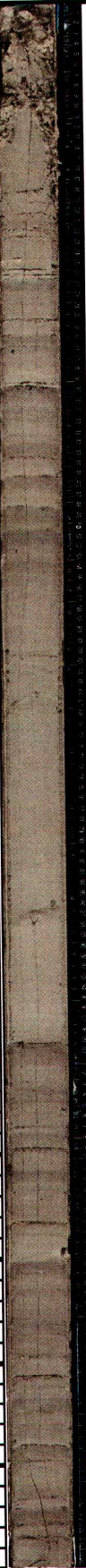
Date 8/2/14	Time 16:00	Observers JBJ/CSJ
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting w m vp bl r a	Round-ness	Color	Accessories	Core Disturbance	Description
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160						2.54 5.2			GRAYISH BROWN, CLAY, VERY WELL SORTED SLIGHTLY DISTURBED.

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

Exp. 347	Site 63	Hole C	Core 35	Type H	Section 1
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Date 8/2/14	Time	Observers SJT/JBS
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Roundness					Color	Accessories	Core Disturbance	Description
				w	m	v	p	bl				
0									104		soapy	soapy upper 20cm
10									5/1			
20											slight	Green gray clay to silty clay well sorted, fine grained with faint mm-cm scale lamination by colour.
30												Interspersed mm laminations of fine sand-silt. Prominent at top but begin to disappear between 55cm and 100cm before becoming more intense towards the base.
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												
160												








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

Exp. 347	Site 63	Hole C	Core 36	Type H	Section 1
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Date 8/2/14	Time 10:25	Observers JBJ/MSJ
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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		O PEBBLE		2.54 5/2			GRAYISH BROWN, CLAY, INTERLAMINATED BY SILT LAMINA. CLAY LAMINA CM SCALE 2-20CM, SILT LAMINA MM SCALE 1-2MM. PROO STONE AT 37CM CRYSTALLIN 1CM DIAMETER ANGULAR, CUBIC. VERY WELL SORTED, SLIGHTLY DISTURBED.








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

Exp.	Site	Hole	Core	Type	Section
347	63	C	36	H	3

Date	Time	Observers
8/2/14	16:32	JBJ/CS

[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Roundness <small>w m vp bl r a</small>	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>2.5φ</p> <p>5/2</p>			<p>GRAYISH BROWN, CLAY, WEAKLY LAMINATED BY COLOR, CM SCALE VERY WELL SORTED, SLIGHTLY DISTURBED.</p>

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

Exp. 347	Site 63	Hole C	Core 37	Type H	Section 1
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Date 8/2/14	Time	Observers SCJ/TBJ
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting w m vp bl r a	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>10Y</p> <p>5/1</p>		<p>Slight</p> <p>soapy</p> <p>soapy</p>	<p>Green-gray clay, Fine grained well sorted, mm scale colour laminations.</p> <p>Fine sand-silt mm-scale laminations with variations in spacings and intensity.</p> <p>Packed, rhythmically banded clay/silt laminations</p> <p>@ 90cm cm-scale buried concretions.</p> <p>Water saturation at more porous, sandy-silt dominated intervals with intense fine sand silt laminations</p>

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

Exp. 347	Site 63	Hole C	Core 37	Type H	Section 2
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Date 8/2/14	Time	Observers SCS/JBT
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting w m vp bl r a	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>10Y</p> <p>5/1</p>		<p>slight</p>	<p>Green-gray clay, fine grained, well sorted, faint mm-scale colour lamination, mm-scale fine sand-silt laminations, occurring at irregular intensities.</p>



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

Exp.	Site	Hole	Core	Type	Section
347	63	C	37	H	3

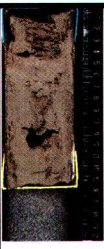
Date	Time	Observers
8/2/04		SCT/JBT

[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						10Y 5/1		slight	Green-gray clay. Fine grained well sorted with faint mm-scale colour lamination, mm scale silt laminations occurring over mm to cm scale spacings. @ 28cm - cavity

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

Exp. 347	Site 63	Hole C	Core 37	Type H	Section CC
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Date 8/2/14	Time	Observers SJS/JBS
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting	Round-ness	Color	Access ories	Core Disturbance	Description
				w m vp bl r a					
0						10Y 5/1		mod	Green-gray silty clay, Fine grained, well sorted. smeared and distorted surface - no structure visible cavity @ 11-13cm
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 63	Hole C	Core 38	Type H	Section 1
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Date 8/2/14	Time	Observers SCJ/JSJ
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Roundness					Color	Accessories	Core Disturbance	Description
				w	m	v	p	bl				
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160											<p>10Y 5/1</p> <p>slight</p> <p>Gray-brownish silt-clay, fine grained well sorted, with mm-scale colour lamination (pinkish bands) mm-scale fine silt/sand laminations occurring throughout at varying intensities.</p> <p>soupy in more porous, sand-silt dominated zones.</p> <p>@ 124cm cm-scale concretions</p>	



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

Exp. 347	Site 63	Hole C	Core 38	Type H	Section 2
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Date 8/2/14	Time	Observers SCS/JBS
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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											slight	Gray clay, Fine grained, well sorted. Faint mm-scale. colour lamination (pink bands)
20												Intermittant fine sand silt laminations.
30												
40												
50												
60												
70												
80												
90												
100											soapy	Heavily waterlogged. Increased fine sand. silt content here towards base.
110												
120												
130												Water logged - no internal structure visible
140												
150												
160												

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

Exp.	Site	Hole	Core	Type	Section
347	63	C	38	H	3

Date	Time	Observers
8/2/14		JS/JSJ

[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting	Round-ness	Color	Accessories	Core Disturbance	Description
				w m vp bl r a					
<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>Gray clay. well sorted. with mm-scale silt laminations at top.</p> <p>Heavily water logged and degraded.</p>



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

Exp. 347	Site 63	Hole C	Core 39	Type H	Section 1
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Date 8/2/14	Time 18:10	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											GRAY AND BROWN, SILT AND CLAY, INTER LAMINATED,
10											
20		SILT LAMINA						2.54			5/1
30											7,54R
40											4/2
50											
60		○ PEBBLE									
70											
80											
90											
100											
110											
120		○ PEBBLES									
130		○ PEBBLES.									
140		○ PEBBLES									1/32
150		○ PEBBLE									7,54R
160											4/2

GRAY AND BROWN, SILT AND CLAY, INTER LAMINATED, SILT LAMINA <sup>MM-</sup>CM SCALE 1MM - 10CM, BUNDLES, CLAY 2MM - 2CM, SILT DOMINANT 0 - 84CM REST CLAY DOMINATED, VERY WELL - WELL SORTED, SLIGHTLY DISTURBED, GRADATIONAL LOWER BOUNDARY, FEW PEBBLES DISPERSED

BROWN, CLAST POOR SANDY DIAMICT, PEBBLES MAX CLAST 4CM. SANDSTONE, CRYSTALLINE, ANGULAR, ELONGATED POORLY SORTED



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

Exp. 347	Site 63	Hole C	Core 39	Type H	Section 2
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Date 8/2/14	Time 18:25	Observers JBJ/CST
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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	VOID				7.5YR			BROWN AND CRAY
10					4/2			CLAST POOR SANDY
20								DIAMICT,
30								PEBBLES MAX CLAST
40								4CM, SANDSTONE,
50								CRYSTALLINE ANGULAR,
60								ELONGATED AND CUBIC.
70								POORLY SORTED
80								INTERVAL 22-42
90								SILT LAYER INCLUDED
100								IN DIAMICT.
110								
120								
130								
140								
150								
160								

SILT

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

Exp. 347	Site 63	Hole C	Core 39	Type H	Section CC
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Date 8/2/14	Time 18:30	Observers JBJ/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												BROWN, CLASTIC POOR SANDY DIAMICT. PEBBLE MAX OUTST 2CM, CRYSTALLINE, ANGULAR, ELONGATED AND CUBIC. POORLY SORTED. HIGHLY DISTURBED.	
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													
160													

7.5%  
4/2