

Expedition 317 Canterbury Basin:

U1352

C

127R

1

17262 - 1731.76

Major Lithology: Sandy mudstone

Site:

Hole:

Core:

Section:

Top Depth:

Minor Lithology:

Offset (cm)	Lithology (graphic) Sed. Structures	Colour	Drilling disturb.	Trace F. Bioturb.	Accessories: Mineral, fossils Misc structures Glauconite %	Samples	Core Description, comments, boundary type, other	Logged by: Date: GFS 17 Dec.
0							Alternating lithologies 1-4. See page 4 for description.	
10								
20	(4)						5-48cm horizontally laminated sst throughout. Alternating dark and light layers throughout	
30								
40								
50				↑				
59		59						
60	(3)			⊙			59-62 - ripple laminated. Sharp wavy base.	
62		62						
70	① with minor < 1cm tk (2)			↓			62-93cm sandy mudstone beds up to 2cm tk, alternating with dark colored v f sandy mudstone up to 5mm thick.	
80								
90								
93		93					93-110cm - horizontally laminated throughout.	
100	(4)							
110								
110		110					110-150cm: very rhythmically bedded. Lighter colored mudstone typically 1-3cm tk interspersed with 3-5mm thick s mudstones.	
120	① with minor thin (2)							
130								
140								
150		150						

Expedition 317 Canterbury Basin:

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127R

2

Major Lithology:

Sandy mudstone

Site:

Hole:

Core:

Section:

Top Depth:

Minor Lithology:

muddy mudstone

Offset (cm)	Lithology (graphic) Sed. Structures	Colour	Drilling disturb.	Trace F. Bioturb.	Accessories: Mineral, fossils Misc structures Glauconite %	Samples	Core Description, comments, boundary type, other	Logged by: Date:
0		0					Alternating 1-4 lithologies	GB 17 Dec.
10	(4)						Description on section 4 (over)	
20							0-23cm: with faint horizontal lamination	
25	(1) with minor (2)	23						
29		29						
30			↑				30-40cm - coarsening upward unit from v f sand at base to fine sand at top	
40	(A)		↑			55		
50			↓			37		
60		60						
70	(1) with less about <1cm thick (2)						Between 71-73cm - burrowed interval with perhaps some sag or soft sediment deformation features	
80							<1cm diam v f s mud filled burrows common	
90								
94		94	↑			95	94-96cm 107 5/1 v f s muddy mudstone - massive in nature	
96		96						
110	(1) with minor <1cm thick (2)		↑				Ripple lamination at 99-102cm, sand	
120			↓				104-106cm	
130								
140		F					Concave lamination at 135cm	
150							Ripple lamination at 142-143cm	

Expedition 317 Canterbury Basin:

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127R

3

Major Lithology: Sandy mudstone

Site:

Hole:

Core:

Section:

Top Depth:

Minor Lithology:

Offset (cm)	Lithology (graphic) Sed. Structures	Colour	Drilling disturb.	Trace F. Bioturb.	Accessories: Mineral, fossils Misc structures Glauconite %	Samples	Core Description, comments, boundary type, other	Logged by: Date:
0	① with < 1cm thick bands of			↑			Alternating 1-4 lithologies Description on section 4 (over).  3.5cm diameter rounded light brown v f sandy pebble/nodule at 2-3cm.	GB 17 Dec
10	②			②				
20		25	v fine	↓				
30	③	32	Fine			↑ F =		
40				↑		36		
50	① with thin ② < 1cm thick			③ ↓		56	Burrows between 40-55cm - lt cream colored v f sandy mud infilled < 1cm diam circular burrows.	
60								
70								
80				↑			ripple lamination at 75cm	
90				↓				
100								
110		113				110		
120	③	118		③			ripple laminated top	
130	① with minor < 1cm thick ②			↑				
140				① ↓				
150		145						

Expedition 317 Canterbury Basin: U1352

C

127R

4

Major Lithology: Sandy Mudstone

Site:

Hole:

Core:

Section:

Top Depth:

Minor Lithology: Sandstone

Offset (cm)	Lithology (graphic) Sed. Structures	Colour	Drilling disturb.	Trace F. Bioturb.	Accessories: Mineral, fossils Misc structures Glauconite %	Samples	Core Description, comments, boundary type, other	Logged by: Date: GB 17 Dec
0	①	0					<p>4 alternating lithologies.</p> <p>① well sd v.f - fine (mostly v.f) sandy mudstone with light-cream colored v.f sandy mud filled burrows &lt; 2cm diam throughout. Bioturb. index = 4. Typically 2-6cm thick.</p> <p>② v.f sandy mudstone - the old ② - bioturbation index = 1. Beds &lt; 1cm thick.</p> <p>③ med well sorted v.f to fine (mostly v.f) glauconitic set - both massive, horizontally + ripple laminated. Typically fine beds up to 6cm thick. Usually bioturbated, sharp bases. One bed at 70cm shows burrows extending down to 72cm into underlying. When rippled - sets up to 1cm thick.</p> <p>④ Unit 1 but with more v.f to fine horizontally laminated calcareous glauconitic ss. laminae throughout. Typically fine beds up to 10cm thick.</p> <p>Colors:</p> <p>① 10Y 6/1</p> <p>② 10Y 3/1</p> <p>③ N3</p> <p>④ 5BY 4/1</p>	
10	with minor ②	12		①				
20	④		ripples at 16-17cm	①				
30	③	29		③		30		
35	④	35		↑		34		
40	① + ②	41		②				
50	unmixed			↓		55		
60	④	59		①				
66	③	66				66		
70	④	70		③				
74	②	74		↑		75		
76		76		④				
97		97		↓		97		
100	/							
110	/							
120	/							
130								
140								
150								

