Expedition 317 Canterbury Basin: U1352 C 128R 1 1735.80

Site: Hole: Core: Section: Top Depth:

Major Lithology: Sandy marlstone Minor Lithology: Calcarenite 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: JS Date: 12/17/09

0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150

Lithotype 4 intercalated with lithotype 1

4 in lithology 1

Piece

U1352C, Core 128R: 1735.80 m to 1743.55 m
There are five distinct lithotypes within this core:
Type 1:The most common lithotype (74%) is a greenish gray (N6 to 10Y 6/1) well-sorted vf-f (most vf) slightly glauconitic sandy marlstone. This lithology ranges into a muddy limestone in section 1 at 57 cm. This lithotype tends to have sharp upper and lower contacts. It is heavily bioturbated (ichnofabric index of 4), with light tan colored vf muddy sand filled burrows. Very thin wavy laminations overprint burrow shapes.

Type 2: A minor lithotype is a dark greenish gray (10Y 4/1) well sorted vf-f (most vf) calcareous sandy mudstone with wavy horizontal to sub horizontal discontinuous laminations of fine sandy mud partings. This lithotype is moderately bioturbated (ichnofabric index of 3).

Type 3: A minor lithotype is a dark gray (N4) well sorted vf-f (mostly f) planar to ripple laminated glauconitic calcareous sandstone. This lithotype is not bioturbated (ichnofabric index of 1) and has sharp contacts.

Type 4: The second most common lithotype is a dark greenish gray (5GY 4/1) well sorted vf to f (mostly vf) massive to finely horizontally laminated calcareous sandstone. Typically forms laminations up to 7 mm thick and typically has sharp contacts.

Type 5: A minor lithotype is a very dark greenish gray (10Y 3/1) laminated claystone with trace amounts of organic matter. This lithotype is not bioturbated (ichnofabric index of 1) and has sharp contacts.

Sect. 1 is mostly lithotype 1 intercalated with 4. Lithotype 1 recurs at ~2-5 cm intervals. Lithotype 4 is ~ 2-5 mm thick. Ichnofabric index of 4 in lithotype 1 with well preserved burrows.

Expedition 317 Canterbury Basin: U1352 C 128R 2 137-30

Site: Hole: Core: Section: Top Depth:

Major Lithology: Sandy Marlstone Minor Lithology: Calcareous 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: JJ Date: 12/17
0	① + ④ Intermixed throughout			4 for typ ①			See Sect. 1 for descriptions of Lithotypes	
10								
20								
30								
40								
50								
60							Type 1 in this section is ~ 2-7 cm thick, heavily bioturbated (eg. small mm-sized burrows from 29-32 cm)	
70								
80							Type 4 in this section is ~ 2-3 mm thick. Wavy laminations merge with thicker continuous laminations and weave around burrows (eg. 74-76 cm)	
90								
100								
110								
120								
130								
140								
150								

Expedition 317 Canterbury Basin: U1352 C 12H 3 1738.80

Site: Hole: Core: Section: Top Depth:

Major Lithology:..... 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: JJ Date: 12/17
0	Type (1) laminations with (4)			3 in type (1)			See Sect 1 for description of lithotypes	
10								
20								
30								
40								
50								
60							Type 1 in this section is ~2-7 cm thick, heavily bioturbated	
70								
80							Type 4 in this section is ~2-3 mm thick. Wavy laminations merge with thicker continuous laminations.	
90								
100								
110								
120								
130								
140								
150								

Expedition 317 Canterbury Basin: U1352 C 128R 4 174.16

Site: Hole: Core: Section: Top Depth:

Major Lithology: Sandy mudstone Minor Lithology: Calcareous 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: JJ Date: 12/17
0–150	(1) interrupted with (4)			1; 4 in type (1)		S	See Sect 1 for description of lithotypes Lithotype 1 is ~2-4 cm thick. Lithotype 1 in this section is slightly more glauconitic than other sections. Also is heavily bioturbated, especially from 56-94 cm. Lithotype 4 laminations are ~2-5 mm thick and sometimes crosscut existing burrows (e.g. 50-51 cm, 23-24 cm) Convolute burrows at 60, 65, 77 cm	

Expedition 317 Canterbury Basin: U352 C 128R 5 1741.57

Site: Hole: Core: Section: Top Depth:

Major Lithology: Sandy Marlstone Minor Lithology: Calcareous Siltstone, Claystone

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:
0–150	(2); (5); (3); (4) interlaminated w/ (4)					SS	See Sect 1 for descriptn of lithotypes 11–15 cm claystone with trace amount of organic matter 15–21 cm, ripple & planar x-lamina. type (3) Type 1 layers are ~2 to 15 cm thick, type 4 layers are < 3mm thick	JJ	12/17

Expedition 317 Canterbury Basin: U1352 C 128R 6 1742.60

Site: Hole: Core: Section: Top Depth:

Major Lithology: Sandy Mudstone Minor Lithology: Calcareous 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: JS Date: 12/17
0	(1) interval with (4)			4 in type 1			See Sect 1 for description of lithotypes	
10								
20								
30								
40								
50								
60								
70							Type 1 layers are ~2-4 cm thick; type 4 laminations are < 6 mm thick	
80								
90								
100							Type 4 laminations can have distinct textural variability within (e.g. 17-18 cm)	
110								
120							well bioturbated 34-38 cm	
130								
140								
150								

Expedition 317 Canterbury Basin: U1352 C 128R CC 1743.30

Site: Hole: Core: Section: Top Depth:

Major Lithology: Stiff Marlstone Minor Lithology: Calcareous 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: JJ Date: 12/17
0	(1) interlayered with (4)			1			See Sed. 1 for description of lithotypes	
10			bior	4				
20	PAL			1				
30								
40								
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								