

IODP Expedition 317  
 SEDIMENT SMEAR SLIDE  
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1553	C	46	R	2	50	-

Sediment / Rock Name	sandy marlstone	Observer	Here.
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
✓	

Percent Terrigenous Texture		
Sand	Silt	Clay
25	35	10

Comments:

paler layer - large traces.

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
25	Quartz
20	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
2	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
2	Biotite
4	Muscovite
2	Chlorite
10	Clay sized fraction
	Glauconite
2	Ferromagnesian minerals
2	Other dense minerals
	Authigenic minerals
	Zeolite
3	Pyrite
2	Opaque minerals (undifferentiated)
	Fe-oxide
5	Carbonates
9	Micrite
	Others

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
2	Foraminifera
-	Nannofossils <i>recrystallized?</i>
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
15	Bioclast (undifferentiated) <i>pellets?</i>
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others

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Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1352	C	47	R	2	101	

Sediment / Rock Name	sandy mudstone.	Observer	Lower.
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
✓	

Percent Terrigenous Texture		
Sand	Silt	Clay
30	35	5

Comments:

To be entered.

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
Framework minerals	
25	Quartz
20	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
4	Rock fragments
	Volcanic glass
Accessory/trace minerals	
Micas	
2	Biotite
6	Muscovite
4	Chlorite
5	Clay sized fraction
	Glaucinite
1	Ferromagnesian minerals
2	Other dense minerals
Authigenic minerals	
	Zeolite
1	Pyrite
2	Opaque minerals (undifferentiated)
	Fe-oxide
1	Carbonates
12	Micrite
	Others

Percent	Component
<b>B</b>	
Carbonates	
3	Foraminifera
7	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
7	Bioclast (undifferentiated)
Siliceous	
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
Others	
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others

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 SEDIMENT SMEAR SLIDE  
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Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1352	C	45	R	3		

Sediment / Rock Name	<i>Sandy marlstone.</i>	Observer	
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Smear Slide	Thin Section
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Dominant Lithology	Minor Lithology
	<input checked="" type="checkbox"/>

Percent Terrigenous Texture		
Sand	Silt	Clay
25	20	5

Comments:

*paler coloured layer.*

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
18	Quartz
13	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
2	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
1	Biotite
8	Muscovite
2	Chlorite
5	Clay sized fraction
	Glaucanite
1	Ferromagnesian minerals
1	Other dense minerals
	Authigenic minerals
	Zeolite
2	Pyrite
1	Opaque minerals (undifferentiated)
	Fe-oxide
8	Carbonates
16	Micrite
	Others

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
4	Foraminifera
20	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
10	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others

✓

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Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1352	C	46	R	2	70	

Sediment / Rock Name	<i>Sandy marlstone</i>	Observer	<i>hewer</i>
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Smear Slide	Thin Section
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Dominant Lithology	Minor Lithology
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Percent Terrigenous Texture		
Sand	Silt	Clay
25	30	3

Comments:

*other lgr, small traces.*

*extensive recrystallization*

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
23	Quartz
20	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
2	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
1	Biotite
5	Muscovite
2	Chlorite
3	Clay sized fraction
	Glauconite
1	Ferromagnesian minerals
2	Other dense minerals
	Authigenic minerals
	Zeolite
2	Pyrite
2	Opaque minerals (undifferentiated)
	Fe-oxide
5	Carbonates
20	Micrite
	Others

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
2	Foraminifera
2	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
12	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others



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Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	41352	C	38	R	S	143	

Sediment / Rock Name	<i>Sandy Marlstone</i>	Observer	<i>Kumar</i>
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Smear Slide	Thin Section
<input checked="" type="checkbox"/>	

Dominant Lithology	Minor Lithology
<input checked="" type="checkbox"/>	

Percent Terrigenous Texture		
Sand	Silt	Clay
30	40	30

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
	Quartz
<i>75</i> / <i>10</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
<i>20</i> / <i>5</i>	Chlorite
<i>15</i> / <i>20</i>	Clay sized fraction
	Glauconite
	Ferromagnesian minerals
<i>1</i>	Other dense minerals
<i>2</i>	
	Authigenic minerals
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
<i>20</i>	Micrite
	Others

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
<i>15</i> / <i>10</i>	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
<i>tr</i>	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others

IODP Expedition 317  
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 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	U1352	C	39	R	4	128	

Sediment / Rock Name	<i>Sandy Marlstone</i>	Observer	<i>kmm</i>
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Smear Slide	Thin Section
<input checked="" type="checkbox"/>	

Dominant Lithology	Minor Lithology
<input checked="" type="checkbox"/>	

Percent Terrigenous Texture		
Sand	Silt	Clay
<i>20</i>	<i>60</i>	<i>20</i>

Comments:

*38%*

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
<i>18</i>	Quartz
<i>10</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
<i>2</i>	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
<i>3</i>	Muscovite
<i>10</i>	Chlorite
<i>10</i>	Clay sized fraction
	Glauconite
<i>2</i>	Ferromagnesian minerals
<i>3</i>	Other dense minerals
	Authigenic minerals
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
<i>20</i>	Micrite
	Others

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
<i>2</i>	Foraminifera
<i>10</i>	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
<i>10</i>	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others