

IODP Expedition 317  
 SEDIMENT SMEAR SLIDE  
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	41352	0	71	X	4	44	

Sediment / Rock Name	<i>Calcareous</i> <i>Sandy mud</i>	Observer	<i>lcm</i>
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
	✓

Percent Terrigenous Texture		
Sand	Silt	Clay
<i>15</i>	<i>60</i>	<i>20</i>

Comments:

*30*  
*20*

Percent	Component
	<b>SILICICLASTIC GRAINS/MINERALS</b>
	Framework minerals
<i>15</i>	Quartz
<i>15</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
<i>3</i>	Muscovite
<i>5</i>	Chlorite
<i>11</i>	Clay sized fraction
	Glaucinite
<i>4</i>	Ferromagnesian minerals
<i>5</i>	Other dense minerals
	<i>Chloropisite</i>
	Authigenic minerals
	Zeolite
	Pyrite
<i>2</i>	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
<i>35</i>	Micrite
	Others

Percent	Component
	<b>BIOGENIC GRAINS</b>
	Calcareous
<i>1</i>	Foraminifera
<i>1</i>	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
<i>2</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

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Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	U1352	B	72	X	4	74	

Sediment / Rock Name	Mud	Observer	KM
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
✓	

Percent Terrigenous Texture		
Sand	Silt	Clay
10	55	35

Comments:

80 → 3%

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

Percent	Component
	<b>BIOGENIC GRAINS</b>
	Calcareous
/	Foraminifera
	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
tr	Other spicules
	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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 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	41352	B	B	X	1	56	

Sediment / Rock Name	<i>Silt Mud</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>10</i>	<del>80</del>	<i>20</i>

Comments:

*70*

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
Framework minerals	
<i>20</i>	<del>25</del> Quartz
<i>15</i>	<del>20</del> Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
<del>8</del>	Rock fragments
	Volcanic glass
Accessory/trace minerals	
	Micas
<i>tr</i>	Biotite
<i>20</i>	Muscovite
<i>5</i>	Chlorite
<i>20</i>	Clay sized fraction
	Glaucinite
	Ferromagnesian minerals
<i>12</i>	Other dense minerals
Authigenic minerals	
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
	Micrite
	Others

Percent	Component
<b>BIOGENIC GRAINS</b>	
Calcareous	
	Foraminifera
<i>tr</i>	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
<i>tr</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

IODP Expedition 317  
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Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	11352	B	74	X	4	50	

Sediment / Rock Name	Mud	Observer	KMM
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
✓	

Percent Terrigenous Texture		
Sand	Silt	Clay
5	50	45

Comments:

Others 7-9%  
in smear

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
<del>100</del>	Quartz
<del>100</del>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
2	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
25	Muscovite
1	Chlorite
40	Clay sized fraction
	Glauconite
	Ferromagnesian minerals
5	Other dense minerals
	Authigenic minerals
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
	Micrite
	Others

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