

IODP Expedition 317  
 SEDIMENT SMEAR SLIDE  
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1352A		1	H	01	033	

Sediment / Rock Name	<i>Calcareous sandy mud</i>	Observer	<i>KMM</i>
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
	✓

Percent Terrigenous Texture		
Sand	Silt	Clay
<i>20</i>	<i>40</i>	<i>40</i>

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
<i>15</i>	Quartz
<i>10</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
<i>1</i>	Biotite
<i>5</i>	Muscovite
	Chlorite
<i>35</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
	Micrite
	Others

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
<i>5</i>	Foraminifera
<i>10</i>	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
<i>1</i>	Sponge spicules
<i>1</i>	Other spicules <i>* gyps +</i>
<i>10</i>	Bioclast (undifferentiated) <i>tholo. thin</i>
	Siliceous
<i>tr</i>	Radiolarians
<i>tr</i>	Diatoms
<i>1</i>	Silicoflagellates <i>? #</i>
<i>5</i>	Sponge spicules
<i>tr</i>	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
<i>tr</i>	Pollen
<i>1</i>	Organic debris <i>Variety</i>
	Plant debris
	Fish remains (teeth, bones, scales)
	Others

IODP Expedition 317  
 SEDIMENT SMEAR SLIDE  
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1352	A	1	H	2	<del>1029</del>	

119 ✓

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

Dominant Lithology	Minor Lithology
✓	

Percent Terrigenous Texture		
Sand	Silt	Clay
3	10	87

Comments:

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

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

IODP Expedition 317  
 SEDIMENT SMEAR SLIDE  
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1352	A	1	H	30	33	4

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

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

Percent Terrigenous Texture		
Sand	Silt	Clay
<i>40</i>	<i>50</i>	<i>10</i>

Comments:

*Well-rounded to angular grain* <sup>Sand</sup>

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
<i>20</i>	Quartz
<i>20</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
<i>36</i>	Rock fragments <i>- Metanorite + sedimentary? (argillite)</i>
	Volcanic glass <i>mainly sand-sized, also coarse silt</i>
	Accessory/trace minerals
	Micas
<i>tr</i>	Biotite
<i>tr</i>	Muscovite
<i>tr</i>	Chlorite
<i>10</i>	Clay sized fraction
<i>tr</i>	Glaucanite
<i>1</i>	Ferromagnesian minerals
<i>5</i>	Other dense minerals <i>clinzoisite, epidote</i>
	Authigenic minerals
	Zeolite
	Pyrite <i>cementing grain</i>
<i>4</i>	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
	Micrite
	Others

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
<i>2</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
	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others

IODP Expedition 317  
**SEDIMENT SMEAR SLIDE  
 & THIN SECTION WORKSHEET**

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	41352	A	2.0	H	3	80	

Sediment / Rock Name	<i>Silty clay Mud</i>	Observer	<i>KMM</i>
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
	✓

Percent Terrigenous Texture		
Sand	Silt	Clay
<i>tr</i>	<i>30</i>	<i>70</i>

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
<i>15</i>	Quartz
<i>10</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
<i>tr</i>	Biotite
<i>tr</i>	Muscovite ?
<i>tr</i>	Chlorite
<i>70</i>	Clay sized fraction <i>- loess?</i>
	Glaucanite
<i>1</i>	Ferromagnesian minerals
<i>10</i>	Other dense minerals
	Authigenic minerals
	Zeolite
<i>tr</i>	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
	Micrite
	Others

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
<i>2</i>	Nannofossils <i>worked larger Proconne?</i>
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
<i>tr</i>	Diatoms
	Silicoflagellates
<i>1</i>	Sponge spicules
	Siiceous debris (undifferentiated)
	Others
	Dinoflagellates
<i>tr</i>	Pollen
<i>1</i>	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others

**IODP Expedition 317  
SEDIMENT SMEAR SLIDE  
& THIN SECTION WORKSHEET**

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	41352	A	2A	H	4	70	

Sediment / Rock Name	Mud	Observer	KMM
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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
5	45	50

Comments:

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

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

**IODP Expedition 317  
SEDIMENT SMEAR SLIDE  
& THIN SECTION WORKSHEET**

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	U1352	A	2	H	4	97	

Sediment / Rock Name	<i>Sand</i>	Observer	<i>KMM</i>
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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
<i>90</i>	<i>5</i>	<i>5</i>

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
<i>18</i>	Quartz
<i>20</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
<i>40</i>	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
<i>e tr</i>	Biotite
	Muscovite
<i>5</i>	Chlorite
	Clay sized fraction
<i>1</i>	Glaucanite
<i>2</i>	Ferromagnesian minerals
<i>15</i>	Other dense minerals
	Authigenic minerals
	Zeolite
<i>1</i>	Pyrite - <i>or others</i>
<i>5</i>	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
	Other spicules
<i>tr</i>	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siiceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others

*red amphibole + green*

*debris + authigenic*

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 SEDIMENT SMEAR SLIDE  
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1352	A	3	H	2	43	

Sediment / Rock Name	<i>mud</i>	Observer	<i>KMN</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>80</i>

Comments:

*Gray*

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
<i>10</i>	Quartz
<i>10</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Chlorite
<i>80</i>	Clay sized fraction <i>← gtr feldspar</i>
	Glaucanite
	Ferromagnesian minerals
	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
	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  
 SEDIMENT SMEAR SLIDE  
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Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1352	A	3	H	2	47	

Sediment / Rock Name	<i>Sand</i>	Observer	<i>JCM</i>
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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
<i>100</i>		

Comments:

*Well rounded to angular (mix)*

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
<i>20</i>	Quartz
<i>20</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
<i>48</i>	Rock fragments
	Volcanic glass <i>amphibole sandstone</i>
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
<i>tr</i>	Chlorite
	Clay sized fraction
	Glauconite
<i>2</i>	Ferromagnesian minerals
<i>10</i>	Other dense minerals
	<i>garnet clinopyroxene rutile sphene epidote</i>
	Authigenic minerals
	Zeolite
	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
	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



IODP Expedition 317  
 SEDIMENT SMEAR SLIDE  
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1352	A	3	H	5	60	

Sediment / Rock Name	<i>Sandy 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>20</i>	<i>40</i>	<i>40</i>

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
<i>28</i>	Quartz
<i>15</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
<i>5</i>	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
<i>.</i>	Muscovite
<i>2</i>	Chlorite
<i>40</i>	Clay sized fraction
	Glauconite
<i>1</i>	Ferromagnesian minerals
<i>5</i>	Other dense minerals
	Authigenic minerals
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
	Micrite
	Others

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
<i>tr</i>	Foraminifera
<i>3</i>	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
<i>1</i>	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
<i>tr</i>	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
<i>tr</i>	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others

IODP Expedition 317  
 SEDIMENT SMEAR SLIDE  
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1352	A	3	H	6	6	

Sediment / Rock Name	<i>Nannofossil ooze</i> <i>Muddy calcareous ooze</i>	Observer	<i>KM</i>
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Smear Slide	Thin Section
<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

*burrow? lam.?*

Percent Terrigenous Texture		
Sand	Silt	Clay
<i>tr</i>	<i>50</i>	<i>50</i>

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
<i>5</i>	Quartz
<i>5</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
<i>6</i>	Chlorite
	Clay sized fraction
	Glaucinite
	Ferromagnesian minerals
	Other dense minerals
	Authigenic minerals
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
<i>80</i>	Carbonates
	Micrite
	Others

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
<i>80</i>	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
	Diatoms
<i>tr</i>	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others

IODP Expedition 317  
 SEDIMENT SMEAR SLIDE  
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1352	A	4	H	2	61	

Sediment / Rock Name	<i>sandy mud.</i>	Observer	<i>Lever</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
15	50	30

Comments:

*fine sand more.*

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
20	Quartz
15	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
5	Rock fragments
	Volcanic glass
	Accessory/trace minerals
1	Micas
2	Biotite
	Muscovite
2	Chlorite
30	Clay sized fraction
	Glauconite
1	Ferromagnesian minerals
4	Other dense minerals
	Authigenic minerals
	Zeolite
1	Pyrite
4	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
	Other spicules
3	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
1	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others

✓

**IODP Expedition 317  
SEDIMENT SMEAR SLIDE  
& THIN SECTION WORKSHEET**

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1352	A	4	H	2	65	

Sediment / Rock Name	<i>mud.</i>	Observer	<i>hewer</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
3	50	10

Comments:

*fine sand*

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

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

✓

IODP Expedition 317  
 SEDIMENT SMEAR SLIDE  
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1352	A	4	H	2	60	

Sediment / Rock Name	mud.	Observer	Levee
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
	✓

Percent Terrigenous Texture		
Sand	Silt	Clay
	40	60

Comments:

chlorite - attached green-yellow coloured low d

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
20	Quartz
14	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
3	Rock fragments
	Volcanic glass
	Accessory/trace minerals
2	Micas
1	Biotite
	Muscovite
1	Chlorite
50	Clay sized fraction
	Glauconite
1	Ferromagnesian minerals
2	Other dense minerals
	Authigenic minerals
	Zeolite
2	Pyrite
4	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
1	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



IODP Expedition 317  
 SEDIMENT SMEAR SLIDE  
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1352	A	4	H	4	68	

Sediment / Rock Name	<i>sandy chalk</i>	Observer	<i>haver</i>
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Smear Slide	Thin Section
<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

Percent Terrigenous Texture		
Sand	Silt	Clay
3	10	15

Comments:

*almost completely calcareous.*

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

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
	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



IODP Expedition 317  
 SEDIMENT SMEAR SLIDE  
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1352	A	4	H	6	78.	

Sediment / Rock Name	<i>mud.</i>	Observer	
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
	✓

Percent Terrigenous Texture		
Sand	Silt	Clay
	40	60.

Comments:

*cs. silt.*

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

IODP Expedition 317  
 SEDIMENT SMEAR SLIDE  
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1352	A	4	H	6	81	

Sediment / Rock Name	<i>muddy sand. / sandy mud</i>	Observer	<i>hano</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
40	45	15

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
25	Quartz
25	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase <i>calcareous aut.</i>
15	Rock fragments <i>schist = muddy</i>
	Volcanic glass
	Accessory/trace minerals
3	Micas
3	Biotite
	Muscovite
2	Chlorite
15	Clay sized fraction
	Glauconite
1	Ferromagnesian minerals
2	Other dense minerals
	Authigenic minerals
	Zeolite
1	Pyrite
3	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
	Other spicules
1	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  
 SEDIMENT SMEAR SLIDE  
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1352	A	5	H	7	51	

Sediment / Rock Name	<i>Silty sand.</i>	Observer	<i>Lover.</i>
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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
70	20	10

Comments:

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

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
1	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
1	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  
 SEDIMENT SMEAR SLIDE  
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1352	A	5	H	1	66	

Sediment / Rock Name	<i>sandy silt, silty sand</i>	Observer	<i>henc</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
35	40	10

Comments:

*vf sand max.*

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

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
2	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
1	Other spicules
3	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  
 SEDIMENT SMEAR SLIDE  
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1352	A	5	H	4	76	

Sediment / Rock Name	<i>mud.</i>	Observer	<i>Le...</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
2.	35	60

Comments:

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

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



IODP Expedition 317  
 SEDIMENT SMEAR SLIDE  
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1352	A	5	H	4	80.	

Sediment / Rock Name	<i>Sandy limestone chalk.</i>	Observer	<i>Levee.</i>
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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
6.	20	10.

Comments:

*Yellowish slightly indurated blobs.*

*fine sand more.*

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

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
1	Foraminifera
	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
1	Sponge spicules
	Other spicules
5.	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  
 SEDIMENT SMEAR SLIDE  
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1352	A	5	H	4	100	

Sediment / Rock Name	<i>Sandy mud</i>	Observer	<i>haver</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
10.	60	25

Comments:

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

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

