

IODP Expedition 317
 SEDIMENT SMEAR SLIDE
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1352	C	133	R	4	88	

Sediment / Rock Name	<i>glauconitic sandy limestone</i>	Observer	<i>here</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	15	?10

Comments:

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

Percent	Component
BIOGENIC GRAINS	
Calcareous	
8	Foraminifera
3	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	C	133	R	4	90	

Sediment / Rock Name	<i>glaucconitic calcareous sandy mudstone</i>	Observer	<i>Hever.</i>
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
	✓

Percent Terrigenous Texture		
Sand	Silt	Clay
23	25	10

Comments:

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

Percent	Component
BIOGENIC GRAINS	
	Calcareous
	Foraminifera
1	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
7	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	C	134	R	2	42	

Sediment / Rock Name	<i>glauconitic silty limestone</i>	Observer	<i>Leaver</i>
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
✓	

Percent Terrigenous Texture		
Sand	Silt	Clay
5	10	5?

Comments:

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

Percent	Component
BIOGENIC GRAINS	
	Calcareous
5	Foraminifera
5	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	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



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 SEDIMENT SMEAR SLIDE
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	U1352	C	135	R	4	57	

Sediment / Rock Name	<i>Glauconitic limestone</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"/>	<input type="checkbox"/>

Percent Terrigenous Texture		
Sand	Silt	Clay

Comments:

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

Percent	Component
BIOGENIC GRAINS	
	Calcareous
<i>50</i>	Foraminifera
<i>15</i>	Nannofossils
<i>20</i>	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	C	135	R	5	94	

Sediment / Rock Name	<i>Calcareous ^{glaucinitic} Silty Sandstone</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>60</i>	<i>30</i>	<i>10</i>

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERALS	
Framework minerals	
<i>15 20</i>	Quartz
<i>15 20</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
<i>5 1</i>	Rock fragments
	Volcanic glass
Accessory/trace minerals	
	Micas
<i>tr</i>	Biotite
<i>12</i>	Muscovite
<i>5</i>	Chlorite
<i>5 10</i>	Clay sized fraction
<i>25 30</i>	Glaucinite <i>alt. mica</i>
<i>tr</i>	Ferromagnesian minerals
<i>2</i>	Other dense minerals
Authigenic minerals	
	Zeolite
<i>1</i>	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
<i>10</i>	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
Calcareous	
<i>2</i>	Foraminifera
<i>2</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
<i>2</i>	Fish remains (teeth, bones, scales)
	Others
	<i>↑ Gray + yellow + orange</i>



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 SEDIMENT SMEAR SLIDE
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Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	U1352	C	136	R	3	127	

Sediment / Rock Name	<i>Sandy Marlstone</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>60</i>	<i>20</i>	<i>20</i>

Comments:

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

Percent	Component
BIOGENIC GRAINS	
	Calcareous
<i>tr</i>	Foraminifera
<i>5</i>	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
<i>20</i>	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
<i>/</i>	Organic debris
	Plant debris
<i>/</i>	Fish remains (teeth, bones, scales)
	Others

✓

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 SEDIMENT SMEAR SLIDE
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	U1352	C	136	R	S	27	

Sediment / Rock Name	<i>Foraminiferal - Nannofossil limestone</i>	Observer	<i>K.M.</i>
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Smear Slide	Thin Section
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Dominant Lithology	Minor Lithology
<i>X</i>	

Percent Terrigenous Texture		
Sand	Silt	Clay

Comments:

Can see texture in larger fragments

Percent	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
<i>1</i>	Quartz
<i>1</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
<i>1</i>	Chlorite
	Clay sized fraction
<i>1</i>	Glauconite
	Ferromagnesian minerals
	Other dense minerals
	Authigenic minerals
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
<i>50</i>	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
	Calcareous
<i>40</i>	Foraminifera
<i>5</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



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 SEDIMENT SMEAR SLIDE
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	U135a	C	137	R	3	58	

Sediment / Rock Name	<i>Calcareous glauconitic ^{Silty muddy} sandstone</i>	Observer	<i>KM</i>
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Smear Slide	Thin Section	Dominant Lithology	Minor Lithology	Percent Terrigenous Texture		
<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	Sand	Silt	Clay
				40	40	20

Comments:

Lighter interior of dark band



glauconitic sandy marlstone

Some well-rounded grains

Percent	Component
SILICICLASTIC GRAINS/MINERALS	
Framework minerals	
15 <i>20</i>	Quartz
15 <i>20</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
Accessory/trace minerals	
	Micas
<i>tr</i>	Biotite
<i>1</i>	Muscovite
<i>1</i>	Chlorite
<i>10</i>	Clay sized fraction
25 <i>30</i>	Glauconite
<i>tr</i>	Ferromagnesian minerals
<i>2</i>	Other dense minerals
	<i>Zircon sphere</i>
Authigenic minerals	
	Zeolite
<i>1</i>	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
<i>20</i>	Micrite
	Others

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



IODP Expedition 317
 SEDIMENT SMEAR SLIDE
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	11352	C	137	R	3	59	

Sediment / Rock Name	<i>Calcareous sandy mudstone</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>25</i>	<i>50</i>	<i>25</i>

Comments:

/// darker exterior of dark band

Percent	Component
SILICICLASTIC GRAINS/MINERALS	
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
<i>3</i>	Muscovite
<i>2</i>	Chlorite
<i>30</i>	Clay sized fraction
<i>10</i>	Glauconite
	Ferromagnesian minerals
<i>2</i>	Other dense minerals
Authigenic minerals	
	Zeolite
<i>4</i>	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
<i>tr</i>	Carbonates
<i>3</i>	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
	Calcareous
<i>tr</i>	Foraminifera ?
	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
<i>20</i>	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
<i>1</i>	Organic debris
	Plant debris
<i>tr</i>	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	C	139	R	4	2	

Sediment / Rock Name	<i>glass in sandy marlstone.</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 checked="" type="checkbox"/>

Percent Terrigenous Texture		
Sand	Silt	Clay
20	25	15

Comments:

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

Percent	Component
BIOGENIC GRAINS	
	Calcareous
	Foraminifera
6	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	C	170	R	2	49	

Sediment / Rock Name	<i>limestone</i>	Observer	<i>hever</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
1	2	

Comments:

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

Percent	Component
BIOGENIC GRAINS	
	Calcareous
	Foraminifera
10	Nannofossils <i>+ altered.</i>
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
10	Bioclast (undifferentiated) <i>reg. aggregates / forams?</i>
	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	C	140	R	2	42	

Sediment / Rock Name	<i>glauco silty limestone</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 checked="" type="checkbox"/>	<input type="checkbox"/>

Percent Terrigenous Texture		
Sand	Silt	Clay
5	10	

Comments:

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

Percent	Component
BIOGENIC GRAINS	
	Calcareous
5	Foraminifera
10	Nannofossils <i>+ altered.</i>
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
25	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	C	140	R	1	15	

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

Dominant Lithology	Minor Lithology
	✓

Percent Terrigenous Texture		
Sand	Silt	Clay
20	20	20

Comments:

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

Percent	Component
BIOGENIC GRAINS	
	Calcareous
	Foraminifera
10	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
4	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	C	143	R	3	33	

Sediment / Rock Name	limestone	Observer	hewer
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
	✓

Percent Terrigenous Texture		
Sand	Silt	Clay
10	15	

Comments:

stylolite surface.

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

Percent	Component
BIOGENIC GRAINS	
	Calcareous
4	Foraminifera
15	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
4	Bioclast (undifferentiated) <i>shell bits / pellets</i>
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
3	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	C	145	R	2	79	

Sediment / Rock Name	Mudstone / claystone	Observer	K m n
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
	✓

Percent Terrigenous Texture		
Sand	Silt	Clay

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
7 88 10	Quartz
7 51	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
tr	Biotite ?
tr	Muscovite
	Chlorite
80	Clay sized fraction ?
tr	Glaucanite ?
	Ferromagnesian minerals
	Other dense minerals
	Authigenic minerals
1	Zeolite
1	Pyrite ?
1	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
	Calcareous
tr	Foraminifera
tr	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
tr	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	<i>replaced by opalines?</i>
	Others
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris ? <i>Charcoal?</i>
3	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 C		145	R	3	45	

Sediment / Rock Name	<i>limestone</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"/>	<input checked="" type="checkbox"/>

Percent Terrigenous Texture		
Sand	Silt	Clay

Comments:

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

Percent	Component
BIOGENIC GRAINS	
	Calcareous
<i>tr</i>	Foraminifera
<i>87</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)
<i>1</i>	Others <i>phosphate pellet?</i>

✓

IODP Expedition 317
 SEDIMENT SMEAR SLIDE
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	41352	C	147	R	4	56	

Sediment / Rock Name	<i>Muddy Limestone → Marlstone</i>	Observer	<i>Kman</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

Comments:

Marginal!

Percent	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
<i>4</i>	Quartz
<i>fr</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Chlorite
<i>30 25</i>	Clay sized fraction
	Glauconite
	Ferromagnesian minerals
	Other dense minerals
	Authigenic minerals
	Zeolite
	Pyrite
<i>1</i>	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
<i>65</i>	Micrite
	Others

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

replace by pyrite

✓

IODP Expedition 317
 SEDIMENT SMEAR SLIDE
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1352	C	148	R	3	41	

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

Dominant Lithology	Minor Lithology
	✓

Percent Terrigenous Texture		
Sand	Silt	Clay
5	10	30

Comments:

muddy layer

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

Percent	Component
BIOGENIC GRAINS	
	Calcareous
5	Foraminifera
28	Nannofossils <i>altered</i>
	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
2	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	C	148	R	4	80	

Sediment / Rock Name	limestone	Observer	hew...
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
✓	

Percent Terrigenous Texture		
Sand	Silt	Clay
	10	?10

Comments:

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

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

