

IODP Expedition 396  
SEDIMENT SMEAR SLIDE  
& THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
396	U1566	A	3	D	2A	78	78

Sediment / Rock Name		Observer	Dustin
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
clay	sand

(matrix obs.)

Percent Terrigenous Texture		
Sand	Silt	Clay
20%	15%	65%

ss. not representative of entire sample, only matrix

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
15%	Quartz
5%	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
20%	Rock fragments (unspecified lithics)
	Volcanic glass
60%	Clay sized fraction (unspecified clays)
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Chlorite
	Zircon
	Glaucanite
	Ferromagnesian minerals
	Other?
	Authigenic minerals
	Zeolite
	Pyrite
	Fe-oxide
	Carbonates
	Micrite
	Other?

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
5%	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

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Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
396							

Sediment / Rock Name		Observer	
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Smear Slide	Thin Section

Dominant Lithology	Minor Lithology

Percent Terrigenous Texture		
Sand	Silt	Clay

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
	Quartz
	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments (unspecified lithics)
	Volcanic glass
	Clay sized fraction (unspecified clays)
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Chlorite
	Zircon
	Glauconite
	Ferromagnesian minerals
	Other?
	Authigenic minerals
	Zeolite
	Pyrite
	Fe-oxide
	Carbonates
	Micrite
	Other?

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

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Sediment / Rock Name		Observer	
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Smear Slide	Thin Section

Dominant Lithology	Minor Lithology

Percent Terrigenous Texture		
Sand	Silt	Clay

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
	Quartz
	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments (unspecified lithics)
	Volcanic glass
	Clay sized fraction (unspecified clays)
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Chlorite
	Zircon
	Glauconite
	Ferromagnesian minerals
	Other?
	Authigenic minerals
	Zeolite
	Pyrite
	Fe-oxide
	Carbonates
	Micrite
	Other?

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)
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Sediment / Rock Name		Observer	
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Smear Slide	Thin Section

Dominant Lithology	Minor Lithology

Percent Terrigenous Texture		
Sand	Silt	Clay

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
	Quartz
	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments (unspecified lithics)
	Volcanic glass
	Clay sized fraction (unspecified clays)
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Chlorite
	Zircon
	Glauconite
	Ferromagnesian minerals
	Other?
	Authigenic minerals
	Zeolite
	Pyrite
	Fe-oxide
	Carbonates
	Micrite
	Other?

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)
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Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
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Sediment / Rock Name		Observer	
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Smear Slide	Thin Section

Dominant Lithology	Minor Lithology

Percent Terrigenous Texture		
Sand	Silt	Clay

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
	Quartz
	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments (unspecified lithics)
	Volcanic glass
	Clay sized fraction (unspecified clays)
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Chlorite
	Zircon
	Glaucanite
	Ferromagnesian minerals
	Other?
	Authigenic minerals
	Zeolite
	Pyrite
	Fe-oxide
	Carbonates
	Micrite
	Other?

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
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	Other spicules
	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
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	Siliceous debris (undifferentiated)
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Dominant Lithology	Minor Lithology

Percent Terrigenous Texture		
Sand	Silt	Clay

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
	Quartz
	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
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	Muscovite
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	Zircon
	Glauconite
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	Zircon
	Glauconite
	Ferromagnesian minerals
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	Pyrite
	Fe-oxide
	Carbonates
	Micrite
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	Foraminifera
	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
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	Zeolite
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	Carbonates
	Micrite
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	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
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	Radiolarians
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	Pollen
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Percent Terrigenous Texture		
Sand	Silt	Clay

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
	Quartz
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	Glauconite
	Ferromagnesian minerals
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	Authigenic minerals
	Zeolite
	Pyrite
	Fe-oxide
	Carbonates
	Micrite
	Other?

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
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	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)
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Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
396							

Sediment / Rock Name		Observer	
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Smear Slide	Thin Section

Dominant Lithology	Minor Lithology

Percent Terrigenous Texture		
Sand	Silt	Clay

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
	Quartz
	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments (unspecified lithics)
	Volcanic glass
	Clay sized fraction (unspecified clays)
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Chlorite
	Zircon
	Glauconite
	Ferromagnesian minerals
	Other?
	Authigenic minerals
	Zeolite
	Pyrite
	Fe-oxide
	Carbonates
	Micrite
	Other?

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 396  
SEDIMENT SMEAR SLIDE  
& THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
396	U1566	A	3	R	2A	55	55

Sediment / Rock Name		Observer	Dustin
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
clay	sand

Percent Terrigenous Texture		
Sand	Silt	Clay
15%	15%	70%

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
15%	Quartz
5%	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
10%	Rock fragments (unspecified lithics)
	Volcanic glass
70%	Clay sized fraction (unspecified clays)
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Chlorite
	Zircon
	Glauconite
	Ferromagnesian minerals
	Other?
	Authigenic minerals
	Zeolite
	Pyrite
	Fe-oxide
	Carbonates
	Micrite
	Other?

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
5%	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others

IODP Expedition 396  
SEDIMENT SMEAR SLIDE  
& THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
396	01566	A	3	R	1A	113	113

Sediment / Rock Name		Observer	Dustin
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
clay	sand

Percent Terrigenous Texture		
Sand	Silt	Clay
25%	5%	70%

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
20%	Quartz
5%	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
8%	Rock fragments (unspecified lithics)
	Volcanic glass
70%	Clay sized fraction (unspecified clays)
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
61%	Chlorite
	Zircon
	Glaucinite
	Ferromagnesian minerals
	Other?
	Authigenic minerals
	Zeolite
	Pyrite
	Fe-oxide
	Carbonates
	Micrite
	Other?

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
1%	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
5% <del>10%</del>	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others

IODP Expedition 396  
SEDIMENT SMEAR SLIDE  
& THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
396	U1566	A	3	R	1A	12	12

Sediment / Rock Name		Observer	Dustin
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
clay	sand

Percent Terrigenous Texture		
Sand	Silt	Clay
15%	<del>15%</del>	70%

15%

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
20%	Quartz
7%	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
3%	Rock fragments (unspecified lithics)
	Volcanic glass
70%	Clay sized fraction (unspecified clays)
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
1%	Chlorite
	Zircon
	Glauconite
	Ferromagnesian minerals
	Other?
	Authigenic minerals
	Zeolite
	Pyrite
	Fe-oxide
	Carbonates
	Micrite
	Other?

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
71%	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 396  
SEDIMENT SMEAR SLIDE  
& THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
396	U1566	A	2	R	1A	7	7

Sediment / Rock Name		Observer	Dushin
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Smear Slide	Thin Section
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Dominant Lithology	Minor Lithology
clay	silt

Percent Terrigenous Texture		
Sand	Silt	Clay
10%	30%	60%

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
20%	Quartz
10%	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
5%	Rock fragments (unspecified lithics)
	Volcanic glass
60%	Clay sized fraction (unspecified clays)
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Chlorite
1%	Zircon
	Glaucanite
	Ferromagnesian minerals
	Other?
	Authigenic minerals
	Zeolite
	Pyrite
	Fe-oxide
	Carbonates
	Micrite
	Other?

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
5%	Foraminifera
21%	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

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SEDIMENT SMEAR SLIDE  
& THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
396	U1566	A	1	R	3A	25	25

Sediment / Rock Name		Observer	Dustin
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
Clay	Silt

Percent Terrigenous Texture		
Sand	Silt	Clay
3%	25%	72%

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
20%	Quartz
5%	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
5%	Rock fragments (unspecified lithics)
	Volcanic glass
60%	Clay sized fraction (unspecified clays)
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
4%	Chlorite
	Zircon
	Glauconite
	Ferromagnesian minerals
	Other?
	Authigenic minerals
	Zeolite
	Pyrite
	Fe-oxide
	Carbonates
	Micrite
	Other?

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
3.8%	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
3%	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others

IODP Expedition 396  
SEDIMENT SMEAR SLIDE  
& THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
396	U1566	A	1	R	1A	50	50

Sediment / Rock Name		Observer	Dustin
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
clay	silt

Percent Terrigenous Texture		
Sand	Silt	Clay
5%	40%	55%

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
20%	Quartz
5%	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
10%	Rock fragments (unspecified lithics)
	Volcanic glass
55%	Clay sized fraction (unspecified clays)
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
4%	Chlorite
	Zircon
3%	Glaucanite
	Ferromagnesian minerals
	Other?
	Authigenic minerals
	Zeolite
	Pyrite
	Fe-oxide
	Carbonates
	Micrite
	Other?

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
21%	Foraminifera
21%	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
1%	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
3%	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others



IODP Expedition 396  
SEDIMENT SMEAR SLIDE  
& THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
396	U1566	A	1	R	1A	25	25

Sediment / Rock Name		Observer	Dustin
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
clay	

Percent Terrigenous Texture		
Sand	Silt	Clay
0%	10%	90%

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
20%	Quartz
15%	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
5%	Rock fragments (unspecified lithics)
	Volcanic glass
50%	Clay sized fraction (unspecified clays)
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
> 1%	Chlorite
> 1%	Zircon
> 1%	Glaucanite
	Ferromagnesian minerals
	Other?
	Authigenic minerals
	Zeolite
	Pyrite
	Fe-oxide
	Carbonates
	Micrite
	Other?

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
1-3%	Foraminifera
5%	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
> 1%	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others

IODP Expedition 396  
SEDIMENT SMEAR SLIDE  
& THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
396	01565	B	4	R	1A	14	14

Sediment / Rock Name		Observer	Dustin
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology

Percent Terrigenous Texture		
Sand	Silt	Clay
>10%	<10%	65% - 80%

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
5%	Quartz
20%	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
5%	Rock fragments (unspecified lithics)
	Volcanic glass
55%	Clay sized fraction (unspecified clays)
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Chlorite
	Zircon
	Glauconite
	Ferromagnesian minerals
	Other?
	Authigenic minerals
	Zeolite
	Pyrite
	Fe-oxide
	Carbonates
	Micrite
	Other?

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
70%	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
1%	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
7%	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others

IODP Expedition 396  
SEDIMENT SMEAR SLIDE  
& THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
396	1565	B	3	R	3A	62	62

Sediment / Rock Name		Observer	Dustin
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
Clay	w/ forams

Percent Terrigenous Texture		
Sand	Silt	Clay
20%	10%	70%

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
100% 20% 15% 13% 5% 35%	Quartz
	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments (unspecified lithics)
	Volcanic glass
	Clay sized fraction (unspecified clays)
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
1%	Chlorite
1%	Zircon
	Glaucanite
	Ferromagnesian minerals
	Other?
	Authigenic minerals
	Zeolite
	Pyrite
	Fe-oxide
	Carbonates
	Micrite
	Other?

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
15%	Foraminifera
5%	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
1%	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
1%	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others

IODP Expedition 396  
SEDIMENT SMEAR SLIDE  
& THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
396	1565	B	3	R	1	104	104

Sediment / Rock Name		Observer	MC
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
Clay	Silt

Percent Terrigenous Texture		
Sand	Silt	Clay
10%	20%	70%

Comments:

DA 3% 15% 82%

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
10%	Quartz
50%	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
1%	Rock fragments (lithics)
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Chlorite
30%	Clay sized fraction (unspecified)
1%	Glaucanite
	Ferromagnesian minerals
	Other dense minerals
DA 1%	zircon
	Authigenic minerals
	Zeolite
	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
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
5%	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others



IODP Expedition 396  
SEDIMENT SMEAR SLIDE  
& THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
396	1565	B	2	R	3	2	2

Sediment / Rock Name		Observer	MC
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
Clay	Silt

Percent Terrigenous Texture		
Sand	Silt	Clay
0	15%	85%

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
20%	Quartz
10%	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
3%	Rock fragments (lithics)
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
41%	Chlorite
66%	Clay sized fraction
41	Glaucanite
	Ferromagnesian minerals
	Other dense minerals
3%	zircons
	Authigenic minerals
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
	Micrite
	Others

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
41%	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
41%	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
3%	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others

IODP Expedition 396  
SEDIMENT SMEAR SLIDE  
& THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
396	1565	B	2	R	2	52	52

Sediment / Rock Name		Observer	MC
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
clay	silt

Percent Terrigenous Texture		
Sand	Silt	Clay
20%	75%	5%

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
10%	Quartz
15%	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Chlorite
65%	Clay sized fraction
1%	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
	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
10%	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others

IODP Expedition 396  
SEDIMENT SMEAR SLIDE  
& THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
396	1565	B	1	R	3	82	82

Sediment / Rock Name		Observer	MC
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
Clay	w/ silt

Percent Terrigenous Texture		
Sand	Silt	Clay
20%	25%	55%

Comments:

10% PH  
15% PH  
75% PH

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
10%	Quartz
10%	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Chlorite
25%	60% Clay sized fraction
	Glaucanite
	Ferromagnesian minerals
5%	Other dense minerals
	zircon
	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
1%	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
5%	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others





IODP Expedition 396  
SEDIMENT SMEAR SLIDE  
& THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
396	1565	B	1	R	1	132	137

Sediment / Rock Name		Observer	
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
Clay	Silt

Percent Terrigenous Texture		
Sand	Silt	Clay
20%	20%	60%

< 10%  
DK 70%

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
10%	Quartz
15%	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
5%	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
1%	Chlorite
60%	Clay sized fraction (unspecified)
1%	Glaucanite
	Ferromagnesian minerals
	Other dense minerals
41%	Zircon
	Authigenic minerals
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
	Micrite
	Others

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
21%	Foraminifera
3%	Nannofossils (collected)
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
1%	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
5%	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others



IODP Expedition 396  
SEDIMENT SMEAR SLIDE  
& THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
396	01565	A	2	R	1A	58	58

Sediment / Rock Name		Observer	Dustin
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
clay	silt

Percent Terrigenous Texture		
Sand	Silt	Clay
<del>20%</del>	<del>25%</del>	<del>55%</del>
20%	25%	55%

Comments:

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

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
10%	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
3%	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others

IODP Expedition 396  
SEDIMENT SMEAR SLIDE  
& THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
396	01565	A	2	R	1A	49	49

Sediment / Rock Name		Observer	Dustin
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
Clay	

Percent Terrigenous Texture		
Sand	Silt	Clay
5	15	80

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
20%	Quartz
15%	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
10%	Rock fragments (bitumen)
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
1%	Chlorite
35%	Clay sized fraction (unspecified)
1%	Glauconite
	Ferromagnesian minerals
	Other dense minerals
1%	Zircon
	Authigenic minerals
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
	Micrite
	Others

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
5%	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
5%	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
7%	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others

IODP Expedition 396  
SEDIMENT SMEAR SLIDE  
& THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
396	01565	A	2	R	1A	35	35

Sediment / Rock Name		Observer	Dustin
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
clay	nanos

Percent Terrigenous Texture		
Sand	Silt	Clay
5%	20%	85%

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
15%	Quartz
10%	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
5%	Rock fragments (lithics)
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
1%	Chlorite
45%	Clay sized fraction (unspecified)
1%	Glaucinite
	Ferromagnesian minerals
	Other dense minerals
3%	Zircon
	Authigenic minerals
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
	Micrite
	Others

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
15%	Nannofossils (altered)
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
1%	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
5%	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others



IODP Expedition 396  
SEDIMENT SMEAR SLIDE  
& THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
396	U1565	A	1	R	1A	12	12

Sediment / Rock Name		Observer	Dustin
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
clay	nannos

Percent Terrigenous Texture		
Sand	Silt	Clay
0	15	85

Comments:

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

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
1%	Foraminifera
25%	Nannofossils (altered)
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
1-3%	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
5%	Organic debris
1%	Plant debris
	Fish remains (teeth, bones, scales)
	Others

IODP Expedition 396  
SEDIMENT SMEAR SLIDE  
& THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
396	U1965	A	14	R	1A	3	3

Sediment / Rock Name		Observer	Dustin
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Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
clay	nannos

Percent Terrigenous Texture		
Sand	Silt	Clay
<del>5%</del>	<del>5%</del>	<del>90%</del>
5%	10%	85%

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
15%	Quartz
20%	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
60%	Rock fragments (lithics)
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Chlorite
20%	Clay sized fraction (unspecified clay)
1%	Glaucanite
	Ferromagnesian minerals
	Other dense minerals
1%	Zircon
	Authigenic minerals
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
	Micrite
	Others

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
~5%	Foraminifera
~25%	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
	Bioclast (undifferentiated)
	Siliceous
~1%	Radiolarians
~5%	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
3%	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others