

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1351	A	4	H	7	40	

Sediment/Rock Name	calcareous silt	Observer	H. Love
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SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
15	32	5

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
26	Quartz
6	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
6	Biotite
	Muscovite
	Chlorite
6	Clay Minerals
	Glauconite
6	Ferromagnesian minerals
	Authigenic minerals
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
2	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
	Calcareous
10	Foraminifera
8	Nannofossils
	Pteropods
	Ostracodes
10	Bioclast (undifferentiated)
6	Sp. spic
	Sea spic
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments: 52

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SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1351	A	4	H	5	17	

Sediment/Rock Name	calc. silt	Observer	H. Loner
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SMEAR	Thin Sect	Dominant	Minor
✓		✓	

Percent Texture		
Sand	Silt	Clay
5	50	10

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
30	Quartz
5	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
5	Micas
5	Biotite
	Muscovite
	Chlorite
7	Clay Minerals
	Glaucinite
8	Ferromagnesian minerals
	Authigenic minerals
	Zeolite
	Pyrite
3	Opaque minerals (undifferentiated)
2	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
	Calcareous
5	Foraminifera
10	Nannofossils
	Pteropods
	Ostracodes
10	Bioclast (undifferentiated)
5	Sp. Spic.
5	Cl. Spic.
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:

65

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SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	41351	A	50	H	2	3	3

Sediment/Rock Name	<i>Calcareous Sand</i>	Observer	<i>KMM/GJB</i>
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SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
<i>80</i>	<i>5</i>	<i>105</i>

Sect 2 34 cm = 31% CaCO₃
Sect 2 54 cm = 31% CaCO₃

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
	Quartz
<i>10</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
<i>10</i>	Rock fragments
	Volcanic glass
Accessory/trace minerals	
	Micas
<i>3</i>	Biotite
<i>5</i>	Muscovite
	Chlorite
<i>10</i>	Clay Minerals
<i>tr</i>	Glauconite
<i>2</i>	Ferromagnesian minerals
<i>2</i>	<i>zircon + other</i>
Authigenic minerals	
	Zeolite
	Pyrite
<i>3</i>	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
Calcareous	
<i>5</i>	Foraminifera
<i>2</i>	Nannofossils
	Pteropods
	Ostracodes
<i>20</i>	Bioclast (undifferentiated)
Siliceous	
	Radiolarians
	Diatoms
	Silicoflagellates
<i>tr (silt)</i>	Sponge spicules
	Siliceous debris (undifferentiated)
Others	
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
<i>tr</i>	Bryozoans ?
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	U1351	A	5	H	2	34	34

Sediment/Rock Name	<i>Muddy sand</i>	Observer	<i>KMM</i>
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SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

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

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
<i>25</i>	Quartz
<i>25</i>	Feldspar (undifferentiated) <i>trace</i>
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
<i>50</i>	Rock fragments
<i>0</i>	Volcanic glass <i>poly mica</i>
	Accessory/trace minerals
	Micas
<i>1</i>	Biotite
<i>1</i>	Muscovite
<i>3</i>	Chlorite <i>(some bit - green?)</i>
<i>20</i>	Clay Minerals <i>guess...</i>
<i>1</i>	Glaucinite
<i>3</i>	Ferromagnesian minerals
<i>5</i>	<i>other dense</i>
	Authigenic minerals
	Zeolite
<i>1</i>	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
	Calcareous
<i>5</i>	Foraminifera <i>- some w/ glass infill</i>
<i>5</i>	Nannofossils
	Pteropods
	Ostracodes
<i>tr</i>	Bioclast (undifferentiated)
<i>tr</i>	<i>holothurian spicules</i>
<i>tr</i>	<i>sponge spicules</i>
	Siliceous
	Radiolarians
	Diatoms
<i>tr</i>	Silicoflagellates
	Sponge spicules <i>siliceous</i>
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
<i>tr</i>	Pollen
	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	U1351	B	1	H	1	75	75

Sediment/Rock Name	<i>Calciferous mud (calcareous)</i>	Observer	KMM
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SMEAR	Thin Sect
✓	

Dominant	Minor
	✓

Percent Texture		
Sand	Silt	Clay
5	65	30

at 78/79 cm 27%

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

Percent	Component
BIOGENIC GRAINS	
	Calcareous
4	Foraminifera
15	Nannofossils
	Pteropods
	Ostracodes
1	Bioclast (undifferentiated)
3	<i>calc. sponge spines</i>
3	<i>holothurid spicules</i>
	Siliceous
	Radiolarians
tr	Diatoms
	Silicoflagellates
1	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
tr	Pollen
tr	Organic debris
tr	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	41351	B	1	H	2	123	123

Sediment/Rock Name	<i>Waxy sand Mud (calcareous)</i>	Observer	<i>KMM</i>
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SMEAR	Thin Sect
✓	

Dominant	Minor
	✓

Percent Texture		
Sand	Silt	Clay
<i>5</i>	<i>65</i>	<i>30</i>

carbonate

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
<i>20</i>	Quartz
<i>20</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
<i>tr</i>	Rock fragments
	Volcanic glass
Accessory/trace minerals	
	Micas
<i>2</i>	Biotite
<i>2</i>	Muscovite
<i>2</i>	Chlorite
<i>30</i>	Clay Minerals
	Glauconite
<i>2</i>	Ferromagnesian minerals
<i>1</i>	<i>other dense</i>
Authigenic minerals (not all...)	
	Zeolite
	Pyrite
<i>2</i>	Opaque minerals (undifferentiated)
<i>tr</i>	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
Calcareous	
<i>1</i>	Foraminifera
<i>5</i>	Nannofossils
	Pteropods
	Ostracodes
<i>5</i>	Bioclast (undifferentiated) <i>bits of fish an</i>
<i>1</i>	<i>Sponge spicules</i>
<i>2</i>	<i>holothurian spicules + bits</i>
Siliceous	
<i>? tr</i>	Radiolarians - ?
<i>tr</i>	Diatoms
	Silicoflagellates
<i>1</i>	Sponge spicules
	Siliceous debris (undifferentiated)
Others	
	Dinoflagellates
	Pollen
<i>tr</i>	Organic debris
<i>tr</i>	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	41351	B	1	H	5	41	41

Sediment/Rock Name	<i>mud (silty clay to clayey silt)</i>	Observer	KMM
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SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
3	67	30

41 cm 4% Carb .44% TOC

Guess at proportion

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
<i>20</i>	Quartz
<i>20</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
<i>5</i>	Biotite
<i>15</i>	Muscovite
<i>1</i>	Chlorite
<i>30</i>	Clay Minerals
	Glauconite
<i>2</i>	Ferromagnesian minerals
<i>tr</i>	<i>dense minerals (other)</i>
	Authigenic minerals
	Zeolite
<i>1</i>	Pyrite (<i>framboids?</i>)
<i>1</i>	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
	Calcareous
<i>tr</i>	Foraminifera
<i>3</i>	Nannofossils
	Pteropods
	Ostracodes
<i>2</i>	Bioclast (undifferentiated)
<i>tr</i>	<i>Calc. spic</i>
<i>tr</i>	<i>holothurini spic</i>
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
<i>tr</i>	Organic debris
<i>tr</i>	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments: