IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Bottom
317	1551	B	16	X	4	120.	

Sediment/Rock Name	calc mud.	Observer	[illegible]

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
6	50.	20.

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
2.	Foraminifera
4.	Nannofossils
	Pteropods
	Ostracodes
2	Bioclast (undiferentiated)
2	calc. sponge tunicate spicules
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
2	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:

✓

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Bottom
317	1351	B	16	X	5	30	

Sediment/Rock Name	mud.	Observer	Love.

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
5.	65.	20

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
1	Foraminifera
4	Nannofossils
	Pteropods
	Ostracodes
	Bioclast (undiferentiated)
2	calc. sponge
	tunicate spicules
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
2	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:

✓

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Bottom
317	1551	B	16	X	CC	20	

Sediment/Rock Name	glauconitic calc mud

Observer	Lcue

SMEAR	Thin Sect
/	

Dominant	Minor
/	

Percent Texture		
Sand	Silt	Clay
6.	64	10.

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
3.	Foraminifera
10.	Nannofossils
	Pteropods
	Ostracodes
3.	Bioclast (undiferentiated)
	calc. sponge tunicate spicules
	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:

✓

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Bottom
317	1351	B	18	X	1	2	

Sediment/Rock Name	glauconitic sandy shell hash	Observer	H Lowe

SMEAR	Thin Sect
✓	

Dominant	Minor
	✓

Burrowed

Percent Texture		
Sand	Silt	Clay
15	40	10

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
3	Foraminifera
	Nannofossils
	Pteropods
	Ostracodes
30	Bioclast (undiferentiated)
	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:

✓

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Interval (cm) Bottom
317	1351	B	18	X	1	95	

Sediment/Rock Name	mud	Observer	H.Lee

SMEAR	Thin Sect
✓	

Dominant	Minor
	✓

Percent Texture		
Sand	Silt	Clay
0	55	35

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
	Foraminifera
5	Nannofossils
	Pteropods
	Ostracodes
3	Bioclast (undiferentiated)
	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

10

Comments:

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Interval (cm) Bottom
317	1351	B	18	X	2	30.	

Sediment/Rock Name	Calc mud.	Observer	H Lowe.

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
3	50	20

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
6.	Foraminifera
8.	Nannofossils
	Pteropods
	Ostracodes
4	Bioclast (undiferentiated)
3	Sp spics.
1	Star spics
	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: 78.

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SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Interval (cm) Bottom
317	1351	B	18	X	CC	33	

Sediment/Rock Name	sandy calcareous mud	Observer	H Lowe.

SMEAR	Thin Sect
✓	

Dominant	Minor
	✓

Percent Texture		
Sand	Silt	Clay
10	35	10

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
4	Foraminifera
	Nannofossils
	Pteropods
	Ostracodes
15	Bioclast (undiferentiated)
3	Sp spics.
	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:

odd

✓

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Interval (cm) Bottom
317	1351	B	19	X	1	50	

Sediment/Rock Name	Silt	Observer	Mahowe.

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
10.	70.	10

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
2	Foraminifera
4.	Nannofossils
	Pteropods
	Ostracodes
	Bioclast (undiferentiated)
1	Sp 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:

✓

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Interval (cm) Bottom
317	1351	B	19	X	1	135.	

Sediment/Rock Name	Sandy calcareous silt.	Observer	H Lowe

SMEAR	Thin Sect
✓	

Dominant	Minor
	✓

Percent Texture		
Sand	Silt	Clay
20	50	5

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
5	Foraminifera
5	Nannofossils
	Pteropods
	Ostracodes
10	Bioclast (undiferentiated)
3	Sp 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:

✓

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Interval (cm) Bottom
317	1351	B	19	X	2	70	

Sediment/Rock Name	glauconitic calcareous sandy silt	Observer	

SMEAR	Thin Sect
✓	

Dominant	Minor
	✓

Percent Texture		
Sand	Silt	Clay
15.	63.	2

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
5.	Foraminifera
4	Nannofossils
	Pteropods
	Ostracodes
10	Bioclast (undiferentiated)
	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: