IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Interval (cm) Bottom
317	U1351	B	95	X	CC	10	

Sediment/Rock Name	Calcareous Sandy mud	Observer	Kumm

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
25	90	35

Percent	Component
	SILICICLASTIC GRAINS/MINERAL
	Framework minerals
15	Quartz
8 F	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
2	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
5	Muscovite
20	Chlorite
25	Clay Minerals
Tr	Glauconite
tr MIN	Ferromagnesian minerals
8 MIN	other dense
	Authigenic minerals
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	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	Interval (cm) Bottom
317	U1351	B	96	X	CC	24	

Sediment/Rock Name	Silty sand	Observer	km

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
65	30	5

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
3	Foraminifera
2	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	Interval (cm) Bottom
317	U1351	B	97	X	1	96	

Sediment/Rock Name	Observer
~~Calcareous~~ mud (calcareous)	KMM

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
15	80	20

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
5	Foraminifera
5	Nannofossils
	Pteropods
	Ostracodes
5	Bioclast (undiferentiated)
	calc. sponge
	truncate 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	Interval (cm) Bottom
317	U1351	B	98	X	1	26	

Sediment/Rock Name	Sandy silt	Observer	KM

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
30	60	10

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
1	Foraminifera
2	Nannofossils
	Pteropods
	Ostracodes
5	Bioclast (undiferentiated)
	calc. sponge
	truncate spicules
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
tr	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	U1351	B	99	X	1	33	

Sediment/Rock Name	Sandy mud

Observer	Kim

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
40	35	~~30~~ 25

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
4	Foraminifera
2	Nannofossils
	Pteropods
	Ostracodes
1	Bioclast (undiferentiated)
	calc. sponge
	truncate 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	Interval (cm) Bottom
317	U1351	B	~~90~~ 100	X	1	134	

Sediment/Rock Name	Observer
Calcareous Sandy Silt	KMM

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
30	70	10

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
2	Foraminifera
5'	Nannofossils
	Pteropods
	Ostracodes
5	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	Interval (cm) Bottom
317	41351	B	100	X	4	85	

Sediment/Rock Name	Observer
Calcareous Sandy mud ~~siliceous~~	Kim

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
30	50	20

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
5 R	Foraminifera
10	Nannofossils
	Pteropods
	Ostracodes
15	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	Interval (cm) Bottom
317	U1351	B	100	X	5	73	

Sediment/Rock Name	Calcareous Sandy ~~Mud~~ ~~Silt~~ Mud	Observer	KMM

SMEAR	Thin Sect
✓	

Dominant	Minor
	✓

Percent Texture		
Sand	Silt	Clay
30	~~20~~ 50	20

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous — agglutinated
5	Foraminifera
5	Nannofossils
	Pteropods
	Ostracodes
5	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	Interval (cm) Bottom
317	U1351	B	10	X	2	21	

Sediment/Rock Name	Silty Sand	Observer	Kmm

SMEAR	Thin Sect
V	

Dominant	Minor
V	

Percent Texture		
Sand	Silt	Clay
70	20	10

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
2	Foraminifera
2	Nannofossils
	Pteropods
	Ostracodes
5	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	U1351	B	101	X	2	38	

Sediment/Rock Name	Sandy silt (calcareous)	Observer	KMM

SMEAR	Thin Sect
✓	

Dominant	Minor
	✓

Percent Texture		
Sand	Silt	Clay
30	60	10

Percent	Component
	SILICICLASTIC GRAINS/MINERAL
	Framework minerals
15	Quartz – partly replaced by carbonate
10	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
tr	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
5	Muscovite
5	Chlorite
10	Clay Minerals
	Glauconite
	Ferromagnesian minerals
5	other dense
	Authigenic minerals
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
20	Carbonate (authigenic)
	Micrite
	Others

Percent	Component
	BIOGENIC GRAINS
	Calcareous
	Foraminifera
10	Nannofossils
	Pteropods
	Ostracodes
20	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

partly cemented

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	10	X	1	21	

Sediment/Rock Name	sandy calcareous mud.	Observer	Lena

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
20	45	20

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
3	Foraminifera
8	Nannofossils
	Pteropods
	Ostracodes
2	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: authigenic calcite ? alteration ?

✓

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Interval (cm) Bottom
317	1351	B	10H	X	2	102	

Sediment/Rock Name	sandy mud

Observer	[illegible]

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
15	60	15

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
2	Foraminifera
4	Nannofossils
	Pteropods
	Ostracodes
3	Bioclast (undiferentiated)
	calc. sponge
	truncate 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: altered to calcite

✓

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Interval (cm) Bottom
317	1351	B	10	X	CC	15	

Sediment/Rock Name	calcareous sandy mud	Observer	Lara

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
25	50	12

generally fine sand

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
2	Foraminifera
5	Nannofossils
	Pteropods
	Ostracodes
4	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: alteration to calcite

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Bottom
317	1351	B	106	X	2	50	

Sediment/Rock Name	calcareous sandy mud.	Observer	Lever

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
20	58	6

up to medium sand

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
5	Foraminifera
5	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: alteration

✓

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Bottom
317	1351	B	107	X	1	12	

Sediment/Rock Name	calcareous sandy mud.	Observer	Lever.

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
25	52	10.

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
4	Foraminifera
5	Nannofossils
	Pteropods
	Ostracodes
2	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: calcite alteration

✓

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Interval (cm) Bottom
317	1351	B	109	X	1	121	

Sediment/Rock Name	Sandy mud	Observer	Gene.

SMEAR	Thin Sect
✓	

Dominant	Minor
/	

Percent Texture		
Sand	Silt	Clay
20	55.	15

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
1	Foraminifera
2	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	109	X	3	70	

Sediment/Rock Name	sandy silt (calcareous)	Observer	Nova.

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
20	60.	10

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
3	Foraminifera
4	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	Interval (cm) Bottom
317	1351	B	111	X	1	30	

Sediment/Rock Name	Sandy calcareous mud.	Observer	Lever.

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
15.	55.	15.

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
3	Foraminifera
6	Nannofossils
	Pteropods
	Ostracodes
5	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: calcite alteration

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Bottom
317	1351	B	1H	X	1	140	

Sediment/Rock Name	calc mud.	Observer	Lena.

SMEAR	Thin Sect
✓	

Dominant	Minor
	✓

Percent Texture		
Sand	Silt	Clay
10	50	25.

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
6	Foraminifera
	Nannofossils
	Pteropods
	Ostracodes
10	Bioclast (undiferentiated)
1	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	Interval (cm) Bottom
317	1351	B	112	X	3	80	

Sediment/Rock Name	Sandy mud.	Observer	Lever

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
10	65.	15

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
1	Foraminifera
3	Nannofossils
	Pteropods
	Ostracodes
3	Bioclast (undiferentiated)
	calc. sponge
	truncate 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	Interval (cm) Bottom
317	U1351	B	113	X	2	114	

Sediment/Rock Name	Observer
Calcareous Sandy Silt	KMM

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
20	70	10

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
2	Foraminifera
10	Nannofossils
	Pteropods
	Ostracodes
8	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: