IODP Expedition 317
SEDIMENT SMEAR SLIDE
&THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm) Top	Interval (cm) Bottom
317	U1352	B	19	H	2	41	

Sediment / Rock Name	Calcareous mud	Observer	KM

Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
✓	

Percent Terrigenous Texture		
Sand	Silt	Clay
5	65	30

Comments:

7%

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

Percent	Component
	BIOGENIC GRAINS
2	Calcareous
	Foraminifera
3	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
1	Sponge spicules
1	Other spicules
5	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
tr	Diatoms
	Silicoflagellates
1	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
tr	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	Interval (cm) Bottom
317	U1352	B	17	H	4	39	

Sediment / Rock Name	Mud	Observer	Kmm

Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
	✓

Percent Terrigenous Texture		
Sand	Silt	Clay
5	65	30

Comments:

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
	Foraminifera
1	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
3	Bioclast (undifferentiated) – fragments of Nanno.!
	Siliceous
	Radiolarians
tr	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	Interval (cm) Bottom
317	U1352	B	19	H	1	74	

Sediment / Rock Name	Mud

Observer	Karen

Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
✓	

Percent Terrigenous Texture		
Sand	Silt	Clay
	50	50

Comments:
2 smear in 19H

Percent	Component
	SILICICLASTIC GRAINS/MINERALS
	Framework minerals
10	Quartz
10	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
tr	Biotite
10	Muscovite
10	Chlorite
50	Clay sized fraction
	Glauconite
	Ferromagnesian minerals
8	Other dense minerals
	Authigenic minerals
	Zeolite
	Pyrite
	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
2	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	Interval (cm) Bottom
317	U1352	B	18	H	3	13	

Sediment / Rock Name	Sandy Marl

Observer	KMM

Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
	✓

Percent Terrigenous Texture		
Sand	Silt	Clay
35	45	20

Comments:

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

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

Sand

IODP Expedition 317
SEDIMENT SMEAR SLIDE
&THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm) Top	Bottom
317	U1352	B	18	H	3	26	

Sediment / Rock Name	Mud	Observer	KMM

Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
	✓

Percent Terrigenous Texture		
Sand	Silt	Clay
tr	50	40

Comments:

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
1	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
	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others

Grg

IODP Expedition 317
SEDIMENT SMEAR SLIDE
&THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm) Top	Interval (cm) Bottom
317	U1352	B	18	H	3	33	

Sediment / Rock Name	Calcareous	Observer	KMM

Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
✓	

Percent Terrigenous Texture		
Sand	Silt	Clay
~~5~~ 10	~~55~~ 40	~~40~~ 50

Comments:

~~13~~ 9.3%

Percent	Component
	SILICICLASTIC GRAINS/MINERALS
	Framework minerals
10	Quartz
10	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
tr	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
6	Muscovite
6	Chlorite
~~40~~ 30	Clay sized fraction
	Glauconite
tr	Ferromagnesian minerals
6	Other dense minerals
	Authigenic minerals
	Zeolite
3	Pyrite ?
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
8	Micrite (bioclast + authigenic?)
	Others

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

Green

IODP Expedition 317
SEDIMENT SMEAR SLIDE
&THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm) Top	Interval (cm) Bottom
317	U1352	B	20	H	1	40	

Sediment / Rock Name	mud	Observer	KMM

Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
	✓

Percent Terrigenous Texture		
Sand	Silt	Clay
5	75	20

Comments: lighter gray lam. "See "19H for dom lithe.
1.8%

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
	Foraminifera
tr	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 317
SEDIMENT SMEAR SLIDE
&THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm) Top	Interval (cm) Bottom
317	U1352	B	21	H	3	60	60

Sediment / Rock Name	Calcareous Sandy Silt	Observer	KMM

Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
	✓

Percent Terrigenous Texture		
Sand	Silt	Clay
25	60	15

Comments:

Green

18%

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
2	Foraminifera
10	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
10	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
1	Diatoms
tr	Silicoflagellates
1	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
tr	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	Interval (cm) Bottom
317	U1352	B	21	H	6	66	

Sediment / Rock Name	Mud	Observer	KMM

Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
✓	

Percent Terrigenous Texture		
Sand	Silt	Clay
	50	50

Comments:

Gray

3%

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

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