IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Interval (cm) Bottom
317	1351	C	2	H	1	75.	

Sediment/Rock Name	silt.	Observer	H Lever.

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
1	80	15

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
	Foraminifera
2	Nannofossils
	Pteropods
	Ostracodes
	Bioclast (undiferentiated)
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
1	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
	Organic debri
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains
	Bivalves
	Others

clean data entered.

Comments:

✓

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Bottom
317	1351	B	2	H	3	75	

Sediment/Rock Name	mud	Observer	H Lowe

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
2	65	33

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

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

Comments: 89 11

✓

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Bottom
317	1351	B	2	H	3	140	

Sediment/Rock Name	calcareous sandy silt	Observer	H Lewa

SMEAR	Thin Sect
✓	

Dominant	Minor
	✓

Percent Texture		
Sand	Silt	Clay
15	39	8

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

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

Comments: no

99

✓

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Interval (cm) Bottom
317	1351	B	2	H	4	120	

Sediment/Rock Name	Calcareous silt	Observer	N Levay

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
10	55	10

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
5	Foraminifera
10	Nannofossils
	Pteropods
	Ostracodes
5	Bioclast (undiferentiated)
4	Star spic
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
1	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	2	H	6	20	

Sediment/Rock Name	calcareous mud.	Observer	H Lane

SMEAR	Thin Sect
✓	

Dominant	Minor
	✓

Percent Texture		
Sand	Silt	Clay
3	75	20

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

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

Comments: 70 30

didemnid ascidian spicule → 2 kinds. ✓

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Interval (cm) Bottom
317	1351	C	2	H	6	100	100

Sediment/Rock Name	mud	Observer	Steve

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
0	55	25

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
	Foraminifera
5	Nannofossils
	Pteropods
	Ostracodes
6	Bioclast (undiferentiated)
1	Star spicules
3	Sp spicis
	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: 82. 18

✓

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Interval (cm) Bottom
317	1355	B	3	H	1	135	

Sediment/Rock Name	calcareous silt	Observer	M Lever.

SMEAR	Thin Sect
✓	

Dominant	Minor
	✓

Percent Texture		
Sand	Silt	Clay
22	40	10

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
3	Foraminifera
10	Nannofossils
	Pteropods
	Ostracodes
6	Bioclast (undiferentiated)
4	Sta spic
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: 27 23

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Interval (cm) Bottom
317	1351	B	3	H	2	100	

Sediment/Rock Name		Observer	H Lewis

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
3	30	30

Percent	Component
	SILICICLASTIC GRAINS/MINERAL
	Framework minerals
35	Quartz
4	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
5	Micas
6	Biotite
	Muscovite
	Chlorite
15	Clay Minerals
	Glauconite
2	Ferromagnesian minerals
2	Heavy
	Authigenic minerals
	Zeolite
	Pyrite
2	Opaque minerals (undifferentiated)
	Fe-oxide
15	Carbonate
	Micrite
	Others
88	

Percent	Component
	BIOGENIC GRAINS
	Calcareous
	Foraminifera
10	Nannofossils
	Pteropods
	Ostracodes
2	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
12	

Comments: granular calcite common.

✓

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Bottom
317	1351	B	3	H	3	140	

Sediment/Rock Name	mud.	Observer	H. Lane.

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
5	50	30

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

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

Comments: 35. 15.

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Bottom
317	1351	B	3	H	4	25.	

Sediment/Rock Name	Sandy calcareous mud.	Observer	

SMEAR	Thin Sect
✓	

Dominant	Minor
	✓

Percent Texture		
Sand	Silt	Clay
15	45	20

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
7	Foraminifera P. (m R)
8	Nannofossils
	Pteropods
	Ostracodes
5.	Bioclast (undiferentiated)
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
1	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments: 30 50

✓

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Bottom
317	1351	B	3	H	4	75.	

Sediment/Rock Name	mud.	Observer	H Lowe.

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
2.	70	20

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
	Foraminifera
1	Nannofossils
	Pteropods
	Ostracodes
	Bioclast (undiferentiated)
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
5.	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	4	H	1	60	

Sediment/Rock Name	calcareous? mud	Observer	H Lever

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
8	50	20

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
3	Foraminifera
2	Nannofossils
	Pteropods
	Ostracodes
4	Bioclast (undiferentiated)
2	Sp Spi
1	Str Spi
	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: 10

✓

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Bottom
317	1351	B	4	H	1	130	

Sediment/Rock Name	sandy calcareous mud	Observer	H. Lee.

SMEAR	Thin Sect
✓	

Dominant	Minor
	✓

Percent Texture		
Sand	Silt	Clay
15	30	18

Percent	Component
	SILICICLASTIC GRAINS/MINERAL
	Framework minerals
40	Quartz
2	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase calcareous
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
5	Micas
1	Biotite
	Muscovite
	Chlorite
10	Clay Minerals
1	Glauconite
3	Ferromagnesian minerals
2	heavy
	Authigenic minerals
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others
63	

Percent	Component
	BIOGENIC GRAINS
	Calcareous
8	Foraminifera
15	Nannofossils
	Pteropods
	Ostracodes
10	Bioclast (undiferentiated)
7	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
37	

Comments:

✓

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Bottom
317	1351	B	4	H	2	110	

Sediment/Rock Name	calcareous mud.	Observer	H Lever.

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
10	40	10

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
5	Foraminifera
15	Nannofossils
	Pteropods
	Ostracodes
15	Bioclast (undiferentiated)
5	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: pyritised forams

40

50

✓

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Bottom
317	1351	B	4	H	3	75.	

Sediment/Rock Name	calcareous mud.	Observer	

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
1	47.	10

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
3	Foraminifera
12	Nannofossils
	Pteropods
	Ostracodes
10	Bioclast (undiferentiated)
2	Sp. spic.
6	Star 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: 58

32

✓

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SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Bottom
317	1351	B	4	H	3	102	

Sediment/Rock Name	marl.	Observer	[illegible]

SMEAR	Thin Sect
✓	

Dominant	Minor
	✓

Percent Texture		
Sand	Silt	Clay
5	45	7

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
2	Foraminifera
20	Nannofossils
	Pteropods
	Ostracodes
5	Bioclast (undiferentiated)
5	Star spic
5	Sp spic
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
1	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others
40	

Comments: pyritized foram tests

✓

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Interval (cm) Bottom
317	1351	B	4	H	4	100	

Sediment/Rock Name	Calcareous mud.	Observer	H Lena

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
15.	40	12

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
5.	Foraminifera P.
10	Nannofossils
	Pteropods
	Ostracodes
15	Bioclast (undiferentiated) Bryoz.
1	Calc sp spic
3	Star 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	Bottom
317	1351	B	5	H	2	100	

Sediment/Rock Name		Observer	H Lever.

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
90	5	

Fine sand.

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
	Foraminifera
	Nannofossils
	Pteropods
	Ostracodes
5	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: Schist rock fragments.

✓

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Interval (cm) Bottom
317	1351	B	5	H	3	59	

Sediment/Rock Name	Calcareous mud

Observer	H Lond.

SMEAR	Thin Sect
✓	

Dominant	Minor
	✓

Percent Texture		
Sand	Silt	Clay
10	40	15

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
5	Foraminifera
15	Nannofossils
	Pteropods
	Ostracodes
8	Bioclast (undiferentiated)
5	Sp Spic
3	star 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:

35

pyritized foram tests.

✓

IODP Expedition 317

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm) Top	Interval (cm) Bottom
317	U1351	B	6	H	1	130	130

Sediment/Rock Name	Silty sand

Observer	Kmm

SMEAR	Thin Sect
✓	

Dominant	Minor
	✓

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
30	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
2	Muscovite
5	Chlorite
10	Clay Minerals
	Glauconite
2	Ferromagnesian minerals
15	Other Dense
	Authigenic minerals
	Zeolite
tr	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
	BIOGENIC GRAINS
	Calcareous
tr	Foraminifera
	Nannofossils
	Pteropods
	Ostracodes
tr	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	U1351	B	6	H	4	100	100

Sediment/Rock Name	Silt	Observer	KMM

SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
10	80	10

mostly large micas

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

Percent	Component
	BIOGENIC GRAINS
	Calcareous
1	Foraminifera
3	Nannofossils
	Pteropods
	Ostracodes
1	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	U1351	B	6	H	5	15	15

Sediment/Rock Name	mud	Observer	KMM

SMEAR	Thin Sect
✓	

Dominant	Minor
	✓

Percent Texture		
Sand	Silt	Clay
10	70	30

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

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

Comments: Some recycled pre-Pleist. nannos?
Large party recrys.