

IODP Expedition 317
 SEDIMENT SMEAR SLIDE
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1352	B	56	X	2	47	

Sediment / Rock Name	<i>calcareous sandy mud</i>	Observer	<i>Laner</i>
-------------------------	-----------------------------	----------	--------------

Smear Slide	Thin Section
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Dominant Lithology	Minor Lithology
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Percent Terrigenous Texture		
Sand	Silt	Clay
10	35	25

Comments:

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

Percent	Component
BIOGENIC GRAINS	
Calcareous	
2	Foraminifera
4	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
2	Other spicules
10	Bioclast (undifferentiated)
Siliceous	
	Radiolarians
1	Diatoms
	Silicoflagellates
2	Sponge spicules
4	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	Bottom
317	1302	B	5B	X	5	47	

Sediment / Rock Name	<i>sandy mud</i>	Observer	<i>Law</i>
----------------------	------------------	----------	------------

Smear Slide	Thin Section
<input checked="" type="checkbox"/>	

Dominant Lithology	Minor Lithology
	<input checked="" type="checkbox"/>

Percent Terrigenous Texture		
Sand	Silt	Clay
15	35	5

Comments:

and small bioclasts

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

Percent	Component
BIOGENIC GRAINS	
Calcareous	
4	Foraminifera
15	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
10	Bioclast (undifferentiated)
Siliceous	
	Radiolarians
	Diatoms
	Silicoflagellates
1	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	Bottom
317	1302	B	56	X	7	47	

Sediment / Rock Name	<i>calcareous mud</i>	Observer	
----------------------	-----------------------	----------	--

Smear Slide	Thin Section
<input checked="" type="checkbox"/>	

Dominant Lithology	Minor Lithology
<input checked="" type="checkbox"/>	

Percent Terrigenous Texture		
Sand	Silt	Clay
10	40	30

Comments:

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

Percent	Component
BIOGENIC GRAINS	
Calcareous	
2	Foraminifera
3	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
5	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	Bottom
317	1352	B	57	X	1	92	

Sediment / Rock Name	<i>mu. di.</i>	Observer	<i>Lawe.</i>
----------------------	----------------	----------	--------------

Smear Slide	Thin Section
<input checked="" type="checkbox"/>	

Dominant Lithology	Minor Lithology
<input checked="" type="checkbox"/>	

Percent Terrigenous Texture		
Sand	Silt	Clay
8	50	30

Comments:

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

Percent	Component	
	BIOGENIC GRAINS	
	Calcareous	
2	Foraminifera	
3	Nannofossils	
	Pteropods	
	Ostracods	
	Echinoderm	
	Bivalves	
	Bryozoans	
	Corals	
	Sponge spicules	
	Other spicules	
3	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	Bottom
317	1352	8	57	X	3	115	

Sediment / Rock Name	Sandy marl.	Observer	Lower
----------------------	-------------	----------	-------

Smear Slide	Thin Section
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Dominant Lithology	Minor Lithology
	<input checked="" type="checkbox"/>

Percent Terrigenous Texture		
Sand	Silt	Clay
10	25	5

Comments:

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

Percent	Component
BIOGENIC GRAINS	
	Calcareous
4	Foraminifera
	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
1	Other spicules
20	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	Bottom
317	1352	B	57	X	4	134	

Sediment / Rock Name	sandy mud	Observer	Lane
----------------------	-----------	----------	------

Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
	✓

Percent Terrigenous Texture		
Sand	Silt	Clay
15	20	5

Comments:

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

Percent	Component
BIOGENIC GRAINS	
	Calcareous
4	Foraminifera
2	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
1	Other spicules
20	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	Bottom
317	1352	B	08	X	2	30	

Sediment / Rock Name	calcareous mud.	Observer	Lane
----------------------	-----------------	----------	------

Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
✓	

Percent Terrigenous Texture		
Sand	Silt	Clay
2	40	45

Comments:

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

Percent	Component
BIOGENIC GRAINS	
	Calcareous
3	Foraminifera
4	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
4	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
1	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	Bottom
317	1352	B	38	X	6	140	

Sediment / Rock Name	mud	Observer	Lane
----------------------	-----	----------	------

Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
✓	

Percent Terrigenous Texture		
Sand	Silt	Clay
5	50	35

Comments:

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

Percent	Component
BIOGENIC GRAINS	
	Calcareous
1	Foraminifera
1	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
4	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
1	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	Bottom
317	1352	B	58	X	8	30	

Sediment / Rock Name	calcareous ^{sandy} mud.	Observer	hewer.
----------------------	----------------------------------	----------	--------

Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
	✓

Percent Terrigenous Texture		
Sand	Silt	Clay
10	40	20

Comments:

vf sand.

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

Percent	Component
BIOGENIC GRAINS	
Calcareous	
4	Foraminifera
4	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
1	Sponge spicules
2	Other spicules
8	Bioclast (undifferentiated)
Siliceous	
	Radiolarians
	Diatoms
	Silicoflagellates
1	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	Bottom
317	1352	B	59	X	1	110	

Sediment / Rock Name	mud.	Observer	Lever.
----------------------	------	----------	--------

Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
✓	

Percent Terrigenous Texture		
Sand	Silt	Clay
5	55	25

Comments:

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

Percent	Component
BIOGENIC GRAINS	
	Calcareous
	Foraminifera
5	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
1	Other spicules
	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
2	Diatoms
	Silicoflagellates
2	Sponge spicules
4	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
1	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	Bottom
317	1352	B	59	X	CC	16	

Sediment / Rock Name	<i>sandy mud.</i>	Observer	<i>Le...</i>
----------------------	-------------------	----------	--------------

Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
	✓

Percent Terrigenous Texture		
Sand	Silt	Clay
15	40	20

Comments:

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

Percent	Component
BIOGENIC GRAINS	
	Calcareous
5	Foraminifera
3	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
2	Other spicules
15	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	Bottom
317	1352	B	60	X	1	50	

Sediment / Rock Name	<i>Sandy mud</i>	Observer	<i>Lever</i>
----------------------	------------------	----------	--------------

Smear Slide	Thin Section
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Dominant Lithology	Minor Lithology
	<input checked="" type="checkbox"/>

Percent Terrigenous Texture		
Sand	Silt	Clay
10	40	5

Comments:

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

Percent	Component
BIOGENIC GRAINS	
Calcareous	
6	Foraminifera
10	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
15	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	Bottom
317	1352	B	61	X	2	30	

Sediment / Rock Name	<i>calcareous siliceous mud.</i>	Observer	<i>Love</i>
----------------------	--------------------------------------	----------	-------------

Smear Slide	Thin Section
<input checked="" type="checkbox"/>	

Dominant Lithology	Minor Lithology
<input checked="" type="checkbox"/>	

Percent Terrigenous Texture		
Sand	Silt	Clay
10	70	35

Comments:

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

Percent	Component
BIOGENIC GRAINS	
Calcareous	
2	Foraminifera
2	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
1	Other spicules
3	Bioclast (undifferentiated)
Siliceous	
	Radiolarians
2	Diatoms
	Silicoflagellates
3	Sponge spicules
6	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	Bottom
317	1552	B	62	X	9	80	

Sediment / Rock Name	<i>calcareous mud.</i>	Observer	<i>Love</i>
----------------------	------------------------	----------	-------------

Smear Slide	Thin Section
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Dominant Lithology	Minor Lithology
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Percent Terrigenous Texture		
Sand	Silt	Clay
5	60	20

Comments:

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

Percent	Component
BIOGENIC GRAINS	
	Calcareous
3	Foraminifera
9	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
1	Sponge spicules
	Other spicules
3	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
2	Sponge spicules
1	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	Bottom
317	41352	D	63	X	4	71	

Sediment / Rock Name	<i>Mud</i>	Observer	<i>km</i>
----------------------	------------	----------	-----------

Smear Slide	Thin Section
<i>X</i>	

Dominant Lithology	Minor Lithology
<i>X</i>	

Percent Terrigenous Texture		
Sand	Silt	Clay
<i>TR</i>	<i>55</i>	<i>45</i>

Comments:

at 83 cm = 2.5%

Percent	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
<i>10</i>	Quartz
<i>10</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
<i>5</i>	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
<i>25, 20</i>	Muscovite
<i>1</i>	Chlorite
<i>45</i>	Clay sized fraction
	Glaucanite
	Ferromagnesian minerals
<i>2 TR</i>	Other dense minerals
	Authigenic minerals
	Zeolite
<i>2</i>	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
	Calcareous
<i>1</i>	Foraminifera
<i>TR</i>	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
<i>TR</i>	Other spicules
	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
	Diatoms
<i>TR</i>	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
<i>TR</i>	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	Bottom
317	U1352	B	64	X	3	76	

Sediment / Rock Name	<i>Mud</i>	Observer	<i>kmm</i>
----------------------	------------	----------	------------

Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
✓	

Percent Terrigenous Texture		
Sand	Silt	Clay
<i>5</i>	<i>60</i>	<i>35</i>

Comments:

mud

4%

Percent	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
<i>20</i>	Quartz
<i>10</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
<i>tr</i>	Biotite
<i>20</i>	Muscovite
<i>2</i>	Chlorite
<i>35</i>	Clay sized fraction
	Glauconite
<i>tr</i>	Ferromagnesian minerals
<i>5</i>	Other dense minerals
	Authigenic minerals
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
	Calcareous
<i>tr</i>	Foraminifera
	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
<i>1</i>	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
<i>2</i>	Diatoms
<i>tr</i>	Silicoflagellates
<i>1</i>	Sponge spicules <i>small</i>
<i>3</i>	Siliceous debris (undifferentiated)
	<i>fragment</i>
	Others
	Dinoflagellates
	Pollen
	Organic debris
<i>tr</i>	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	Bottom
317	U1352	B	64	X	4	17	

Sediment / Rock Name	<i>Sandy Mud</i>	Observer	<i>Km</i>
----------------------	------------------	----------	-----------

Smear Slide	Thin Section
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Dominant Lithology	Minor Lithology
	<input checked="" type="checkbox"/>

Percent Terrigenous Texture		
Sand	Silt	Clay

Comments:

Not applicable

Percent	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
<i>5</i>	Quartz
<i>3</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
<i>tr</i>	Biotite
	Muscovite
<i>2</i>	Chlorite
<i>15</i>	Clay sized fraction
	Glauconite
<i>tr</i>	Ferromagnesian minerals
<i>2</i>	Other dense minerals
	<i>garnet</i>
	Authigenic minerals
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
	Calcareous
<i>40</i>	Foraminifera
<i>5</i>	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
<i>25</i>	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
<i>3</i>	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	Bottom
317	U1352	D	66	X	1	57 62	

Sediment / Rock Name	<i>Sandy Mud</i>	Observer	<i>KMN</i>
----------------------	------------------	----------	------------

Smear Slide	Thin Section
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Dominant Lithology	Minor Lithology
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Percent Terrigenous Texture		
Sand	Silt	Clay

Comments:

Thin section in 65x

Not applicable

58%

Percent	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
<i>5</i>	Quartz
<i>3</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
<i>2</i>	Chlorite
<i>15</i>	Clay sized fraction
<i>1</i>	Glaucanite
<i>tr</i>	Ferromagnesian minerals
<i>2</i>	Other dense minerals
	Authigenic minerals
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
	Calcareous
<i>35-40</i>	Foraminifera
<i>10</i>	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
<i>10</i>	Bioclast (undifferentiated)
	Siliceous
<i>tr</i>	Radiolarians ?
	Diatoms
	Silicoflagellates
<i>20</i>	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	Bottom
317	U1352	B	67	X	CC	16	

Sediment / Rock Name	<i>Sandy Mud</i>	Observer	<i>Kamm</i>
----------------------	------------------	----------	-------------

Smear Slide	Thin Section
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Dominant Lithology	Minor Lithology
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Percent Terrigenous Texture		
Sand	Silt	Clay

Comments:

Not applicable

55%

Percent	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
<i>3</i>	Quartz
<i>3</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
<i>tr</i>	Muscovite
	Chlorite
<i>10</i>	Clay sized fraction
<i>1</i>	Glaucanite <i>→ same mixed glauca/calc</i>
	Ferromagnesian minerals
<i>tr</i>	Other dense minerals
	Authigenic minerals
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
<i>3</i>	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
	Calcareous
<i>40</i>	Foraminifera
<i>20</i>	Nannofossils
	Pteropods
	Ostracods
<i>tr</i>	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
	Bioclast (undifferentiated)
	Siliceous
<i>tr</i>	Radiolarians
<i>tr</i>	Diatoms
	Silicoflagellates
<i>18</i>	Sponge spicules <i>→ dissolution pits? in one</i>
	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	Bottom
317	41352	B	68	X	1	70	

Sediment / Rock Name	<i>Calcareous mud</i>	Observer	<i>KMM</i>
----------------------	-----------------------	----------	------------

Smear Slide	Thin Section
<input checked="" type="checkbox"/>	

Dominant Lithology	Minor Lithology
<input checked="" type="checkbox"/>	

Percent Terrigenous Texture		
Sand	Silt	Clay
<i>20</i>	<i>40</i>	<i>40</i>

Comments:

17%

Percent	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
<i>15</i>	Quartz
<i>10</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
<i>1</i>	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
<i>5</i>	Muscovite
<i>1</i>	Chlorite
<i>35</i>	Clay sized fraction
<i>40</i>	Glauconite
	Ferromagnesian minerals
<i>15</i>	Other dense minerals
	Authigenic minerals
	Zeolite
<i>1</i>	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
<i>2</i>	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
	Calcareous
<i>tr</i>	Foraminifera
<i>10</i>	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
<i>5</i>	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
<i>tr</i>	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	Bottom
317	U1352 B	68	X	2	86		

Sediment / Rock Name	<i>Sandy Mud</i>	Observer	<i>kmm</i>
----------------------	------------------	----------	------------

Smear Slide	Thin Section
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Dominant Lithology	Minor Lithology
	<input checked="" type="checkbox"/>

Percent Terrigenous Texture		
Sand	Silt	Clay

Comments:

NA

Percent	Component
SILICICLASTIC GRAINS/MINERALS	
<i>5</i>	Framework minerals
<i>5</i>	Quartz
	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
<i>2</i>	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
<i>1</i>	Biotite
<i>1</i>	Muscovite
<i>1</i>	Chlorite
<i>10</i>	Clay sized fraction
	Glauconite
<i>2</i>	Ferromagnesian minerals
<i>3</i>	Other dense minerals
	Authigenic minerals
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
	Micrite <i>± fine bioclasts?</i>
	Others

Percent	Component
BIOGENIC GRAINS	
	Calcareous
<i>10</i>	Foraminifera
<i>10</i>	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
<i>50</i>	Bioclast (undifferentiated) <i>degraded bioclasts</i>
	Siliceous <i>fecal pellets (accyp./bms?)</i>
<i>+</i>	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others

looking old + radiolite

degraded bioclasts fecal pellets (accyp./bms?)

± fine bioclasts?

IODP Expedition 317
 SEDIMENT SMEAR SLIDE
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	U1352 B		70	X	82	82	

Sediment / Rock Name	<i>Sandy Mud</i>	Observer	<i>KM</i>
----------------------	------------------	----------	-----------

Smear Slide	Thin Section
<input checked="" type="checkbox"/>	

Dominant Lithology	Minor Lithology
<input checked="" type="checkbox"/>	

Percent Terrigenous Texture		
Sand	Silt	Clay
<i>40</i>	<i>40</i>	<i>20</i>

Comments:

"Bit" of drilling Breccia

Percent	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
<i>10</i>	Quartz
<i>10</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
10	Micas
<i>1</i>	Biotite
<i>2</i>	Muscovite
<i>2</i>	Chlorite
<i>5</i>	Clay sized fraction
<i>tr</i>	Glauconite
<i>2</i>	Ferromagnesian minerals
<i>2</i>	Other dense minerals
	Authigenic minerals
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonates
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
	Calcareous
<i>20</i>	Foraminifera
<i>10</i>	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
<i>20</i>	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
<i>12</i>	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
<i>tr</i>	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others

Looking "old" + (some) but

50% des solution pits in spicules

IODP Expedition 317
 SEDIMENT SMEAR SLIDE
 & THIN SECTION WORKSHEET

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	U1352	B	71	X	3	40	

Sediment / Rock Name	Calcareous ^{Sandy} gravel ^{Sandy Mud}	Observer	KMM
----------------------	---	----------	-----

Smear Slide	Thin Section
✓	

Dominant Lithology	Minor Lithology
✓	

Percent Terrigenous Texture		
Sand	Silt	Clay
20	45	35

Comments:

at 42% 27%

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

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