

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1351	B	30	X	4	70.	

Sediment/Rock Name	<i>calc mud</i>	Observer	
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SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
5.	45.	25

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

Percent	Component
BIOGENIC GRAINS	
	Calcareous
10	Foraminifera
6	Nannofossils
	Pteropods
	Ostracodes
8.	Bioclast (undifferentiated)
	<i>Calc. Sponge</i>
	<i>tunicate spicules</i>
	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: *75.*

25.



SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1351	B	30	X	5	100	

Sediment/Rock Name	<i>mud.</i>
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Observer	<i>Leve.</i>
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SMEAR	Thin Sect
✓	

Dominant	Minor
	✓

Percent Texture		
Sand	Silt	Clay
2	50	30

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

Percent	Component
BIOGENIC GRAINS	
	Calcareous
6	Foraminifera
7	Nannofossils
	Pteropods
	Ostracodes
4	Bioclast (undifferentiated)
1	<i>Calc. Sponge tunicate spicules</i>
	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:

Only pyritized forams preserved.



SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1351	C	31	X	1	33.	

Sediment/Rock Name	calc mud.
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Observer	Lava
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SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
8	50.	15

26

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

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

Comments: 7+

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SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1351	B	31	X	4	66	

Sediment/Rock Name	<i>mud.</i>
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Observer	<i>Leve</i>
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SMEAR	Thin Sect
✓	

Dominant	Minor
	✓

Percent Texture		
Sand	Silt	Clay
	45	50.

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

Percent	Component
BIOGENIC GRAINS	
	Calcareous
2	Foraminifera
4.	Nannofossils
	Pteropods
	Ostracodes
1	Bioclast (undifferentiated)
	<i>Calc. Sponge</i>
2	<i>tunicate spicules</i>
	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:



SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1351	B	32	X	3	100	

Sediment/Rock Name	<i>mud.</i>	Observer	<i>Law.</i>
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SMEAR	Thin Sect
✓	

Dominant	Minor
	✓

Percent Texture		
Sand	Silt	Clay
10	45	35

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

Percent	Component
BIOGENIC GRAINS	
	Calcareous
2	Foraminifera
8	Nannofossils
	Pteropods
	Ostracodes
3	Bioclast (undifferentiated)
1	<i>Calc. Sponge</i>
	<i>truncate spicules</i>
	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:

85

15



SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1351	B	33	X	1	100	

Sediment/Rock Name	<i>slightly glauconitic sandy mud</i>
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Observer	<i>Lever</i>
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SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
20.	50.	15

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

Percent	Component
BIOGENIC GRAINS	
Calcareous	
2	Foraminifera
5	Nannofossils
	Pteropods
	Ostracodes
5	Bioclast (undifferentiated)
1	<i>Calc. Sponge tunicate spicules</i>
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: 85

15



SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1351	B	37	X	1	100	

Sediment/Rock Name	calc mud.
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Observer	Lerner
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SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
10	55	20

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

Percent	Component
BIOGENIC GRAINS	
Calcareous	
4	Foraminifera
4	Nannofossils
	Pteropods
	Ostracodes
6	Bioclast (undifferentiated)
	<i>Calc. Sponge</i>
2	<i>tunicate spicules</i>
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

8; Comments:

15



SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1351	B	37	X	CC	10	

Sediment/Rock Name	<i>sandy mud.</i>	Observer	<i>hewer.</i>
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SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
15	62.	10

27.

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

Percent	Component
BIOGENIC GRAINS	
Calcareous	
	Foraminifera
7	Nannofossils
	Pteropods
	Ostracodes
6	Bioclast (undifferentiated)
2	<i>Calc. Sponge</i>
1	<i>truncate spicules</i>
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:

13.



SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1351	B	39	X	1	75	75

Sediment/Rock Name	<i>Mud</i>	Observer	<i>KMM</i>
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SMEAR	Thin Sect
<input checked="" type="checkbox"/>	

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

Percent Texture		
Sand	Silt	Clay
<i>15</i>	<i>55</i>	<i>30</i>

MAP

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
<i>27.25</i>	Quartz
<i>18.20</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
<i>5</i>	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
<i>1</i>	Biotite
<i>10</i>	Muscovite
<i>3</i>	Chlorite
<i>30</i>	Clay Minerals
<i>tr</i>	Glauconite
<i>1</i>	Ferromagnesian minerals
<i>10</i>	<i>other dense - epidote, zircon</i>
	Authigenic minerals
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
	Calcareous
<i>1</i>	Foraminifera
<i>1</i>	Nannofossils
	Pteropods
	Ostracodes
<i>2</i>	Bioclast (undifferentiated)
	<i>Calc. Sponge</i>
	<i>tunicate spicules</i>
	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:

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1351	B	39	X	3	70	70

Sediment/Rock Name	<i>Sandy mud</i>	Observer	<i>KMM</i>
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SMEAR	Thin Sect
<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

Percent Texture		
Sand	Silt	Clay
<i>35</i>	<i>40</i>	<i>25</i>

8% carb

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
<i>25</i>	Quartz
<i>15</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
<i>10</i>	Rock fragments
	Volcanic glass
Accessory/trace minerals	
	Micas
	Biotite
<i>2</i>	Muscovite
<i>4</i>	Chlorite
<i>25</i>	Clay Minerals
	Glauconite
<i>1</i>	Ferromagnesian minerals
<i>10</i>	<i>other dense lots of clino for + epidote sphen</i>
Authigenic minerals	
	Zeolite
<i>2</i>	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
Calcareous	
<i>3</i>	Foraminifera
<i>1</i>	Nannofossils
	Pteropods
	Ostracodes
<i>2</i>	Bioclast (undifferentiated)
	<i>Calc. Sponge tunicate spicules</i>
Siliceous	
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
Others	
	Dinoflagellates
	Pollen
<i>tr</i>	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	41351	B	40	X	1	75	

Sediment/Rock Name	<i>Sandy mud</i>	Observer	<i>KMM</i>
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SMEAR	Thin Sect
<input checked="" type="checkbox"/>	

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

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

6.5% carb

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
<i>15</i>	Quartz
<i>15</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
<i>15</i>	Rock fragments
<i>0</i>	Volcanic glass
	Accessory/trace minerals
	Micas
<i>tr</i>	Biotite
<i>10</i>	Muscovite
<i>5</i>	Chlorite
<i>20</i>	Clay Minerals
	Glauconite
<i>tr</i>	Ferromagnesian minerals
<i>15</i>	<i>other dense Lots of Epidote / zircon</i>
	Authigenic minerals
	Zeolite
<i>3</i>	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
	Calcareous
<i>tr</i>	Foraminifera
	Nannofossils
	Pteropods
	Ostracodes
<i>tr</i>	Bioclast (undifferentiated)
	<i>Calc. Sponge</i>
	<i>truncate spicules</i>
	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

bits with unidirectional

Comments:

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	U1351	B	44	X	1	60	

Sediment/Rock Name	<i>Sandy Mud</i>	Observer	<i>Kamm</i>
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SMEAR	Thin Sect
<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

Percent Texture		
Sand	Silt	Clay
<i>20</i>	<i>60</i>	<i>20</i>

55/56 cm 6 1/2 Carb

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
<i>40</i>	Framework minerals
<i>20</i>	Quartz
<i>20</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
<i>15</i>	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
<i>5</i>	Muscovite
<i>5</i>	Chlorite
<i>20</i>	Clay Minerals
	Glauconite
<i>3.5</i>	Ferromagnesian minerals
<i>9.5</i>	<i>other dense</i>
	Authigenic minerals
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
	Calcareous
	Foraminifera
<i>20</i>	Nannofossils
	Pteropods
	Ostracodes
<i>1</i>	Bioclast (undifferentiated)
	<i>Calc. Sponge</i>
	<i>tunicate spicules</i>
	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:

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	U1351	B	44	X	CL	10	

Sediment/Rock Name	<i>Sandy mud (calcareous)</i>	Observer	<i>JCMN</i>
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SMEAR	Thin Sect
✓	

Dominant	Minor
	✓

Percent Texture		
Sand	Silt	Clay
<i>20</i>	<i>55</i>	<i>25</i>

13/14 cm 6% carb

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
<i>15</i>	Quartz
<i>10</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
<i>20</i>	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
<i>tr</i>	Biotite
<i>5</i>	Muscovite
<i>3</i>	Chlorite
<i>25</i>	Clay Minerals
	Glauconite
	Ferromagnesian minerals
<i>10</i>	<i>other dense</i>
	Authigenic minerals
	Zeolite
<i>1</i>	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
<i>1</i>	Carbonate ◇
	Micrite
	Others

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

Comments: