Sediment Smear Slide / Thin Section Description Sheet

Date 1-1-13

Expedition: 338 Observer RLM

Site: C0022 Hole: B Core: 1H Sect.: 1 Interval: 5

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment				Chemical Sediment
Siliciclastic	Volcaniclastic	Pelagic	Neritic	
✓				

Select one and Check.

Percent Texture		
Sand	Silt	Clay
2	38	60

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
	Quartz
35	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
30	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
25	Nannofossils
F	Foraminifers
	Siliceous Grain
5	Diatom
2	Radiolarians
	Sillicoflagellates
3	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
F	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form reviced after ODP, composition list reviced after J-CORES. 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1-1-13

Expedition: 338 Observer KLM

Site: C0022 Hole: B Core: 1H Sect.: 3 Interval: 110

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Volcaniclastic	Pelagic	Neritic / Chemical Sediment
✓			

Select one and Check.

Percent Texture: Sand	Silt	Clay
10	40	50

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
30	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
35	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
F	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
10	Nannofossils
5	Foraminifers
	Siliceous Grain
10	Diatom
2	Radiolarians
	Sillicoflagellates
3	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
5	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form reviced after ODP, composition list reviced after J-CORES 20/Nov/2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/1/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 11H Sect.: 4 Interval: 10

Sediment Name: Sdy silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
20	30	50

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
20 (Quartz and Feldspars, bracketed)	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
30	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
F	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
F	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
25	Nannofossils
5	Foraminifers
	Siliceous Grain
10	Diatom
2	Radiolarians
F	Sillicoflagellates
3	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
5	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: microlitic glass present

Form revised after ODP, composition list revised after J-CORES. 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/1/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 1H Sect.: 6 Interval: 50

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment				Chemical Sediment
Siliciclastic	Volcaniclastic	Pelagic	Neritic	
✓				

Select one and Check.

Percent Texture		
Sand	Silt	Clay
5	25	70

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
10	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
45	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
2	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
3	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
25	Nannofossils
1	Foraminifers
	Siliceous Grain
5	Diatom
2	Radiolarians
	Sillicoflagellates
3	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
4	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: trace of brown microlitic glass

Form reviced after ODP, composition list reviced after J-CORES, 20/Nov/2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/1/13

Expedition: 338 Observer KLM

Site: C0022 Hole: B Core: 1H Sect.: CC Interval: 5

Sediment Name: Silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Granular Sediment: Volcaniclastic	Chemical Sediment: Pelagic	Neritic
✓			

Select one and Check.

Percent Texture: Sand	Silt	Clay
10	30	40

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
35	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
30	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
2	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
3	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
10	Nannofossils
13	Foraminifers
	Siliceous Grain
3	Diatom
F	Radiolarians
	Sillicoflagellates
2	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
2	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form revised after ODP, composition list revised after J-CORES. 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/1/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 2H Sect.: 1 Interval: 40

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Sand	Silt	Clay
1	39	60

Percent Texture. Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
25	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
35	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
F	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
F	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
25	Nannofossils
3	Foraminifers
	Siliceous Grain
2	Diatom
F	Radiolarians
	Sillicoflagellates
3	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
2	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: trace of brown microlitic glass

Form revised after ODP, composition list revised after J-CORES. 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date: 1/1/13

Expedition: 338

Observer: KLM

Site: C0022 Hole: B Core: 2H Sect.: 3 Interval: 40

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Volcaniclastic	Chemical Sediment: Pelagic	Neritic
✓			

Select one and Check.

Percent Texture: Sand	Silt	Clay
5	25	70

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
25 (	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
55	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
5	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
10	Nannofossils
2	Foraminifers
	Siliceous Grain
2	Diatom
F (	Radiolarians
	Sillicoflagellates
3	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
3	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/1/13

Expedition: 338

Observer ICLM

Site: C0022 Hole: B Core: 2H Sect.: 3 Interval: 42

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
0	25	75

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
	Quartz
25	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
5	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
5	Nannofossils
F	Foraminifers
	Siliceous Grain
F	Diatom
	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluses
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: from greenish mottle

Sediment Smear Slide / Thin Section Description Sheet

Date 1/1/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 2H Sect.: 6 Interval: 100

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment			Chemical Sediment
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	25	75

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
25	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
F	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
5	Nannofossils
F	Foraminifers
	Siliceous Grain
F	Diatom
	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
5	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form revised after ODP, composition list revised after J-CORES. 20/Nov/2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/1/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 21H Sect.: 7 Interval: 130

Sediment Name: fine ash

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
	✓		

Select one and Check.

Percent Texture		
Sand	Silt	Clay
5	95	

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
2	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
3	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
95	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: Sample taken from cm-scale ash blebs; ash is clear.

Sediment Smear Slide / Thin Section Description Sheet

Date: 1-1-13

Expedition: 338

Observer: KLM

Site: C0022 Hole: B Core: 3H Sect.: 1 Interval: 22

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment				Chemical Sediment
Siliciclastic	Volcaniclastic	Pelagic	Neritic	
✓				

Select one and Check.

Percent Texture		
Sand	Silt	Clay
3	27	70

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
20 (Quartz and Feldspars bracketed)	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
55	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
15	Nannofossils
3	Foraminifers
	Siliceous Grain
3	Diatom
2 (Radiolarians, Sillicoflagellates and Sponge Spicule bracketed)	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
2	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form revised after ODP, composition list revised after J-CORES. 20/Nov/2005

Sediment Smear Slide / Thin Section Description Sheet

Date: 1-1-13

Expedition: 338 | Observer: KLM

Site: C0022 | Hole: B | Core: 3H | Sect.: 4 | Interval: 121

Sediment Name: fine Sand

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Granular Sediment: Volcaniclastic	Granular Sediment: Pelagic	Granular Sediment: Neritic	Chemical Sediment
✓				

Select one and Check.

Percent Texture: Sand	Percent Texture: Silt	Percent Texture: Clay
100		

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
40 (	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
F	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
5	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
F	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
5	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
5	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
45	Opaque Grain → pyrite + thickness → most are lithics

Fill percentage (Total must be 100).

Remarks: Some vitric grains have crystals

Form reviced after ODP, composition list reviced after J-CORES 20/Nov/2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/2/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 4H Sect.: 1 Interval: 20

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
1	24	75

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
28	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
60	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
F	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
10	Nannofossils
1	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
1	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/2/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 4H Sect.: 4 Interval: 93

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	25	75

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
30	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
F	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
5	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
F	Pyrite ~~Grain~~ framboids
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: dark green patch — Undressgregated fragments are distinctly green in ppl → ? glauconiced ??

Sediment Smear Slide / Thin Section Description Sheet

Date 1/2/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 5H Sect.: 6 Interval: 106

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Volcaniclastic	Chemical Sediment: Pelagic	Neritic
✓			

Select one and Check.

Percent Texture: Sand	Silt	Clay
	30	70

Fill percentage (Total must be 100)

Percent	Composition
	Siliciclastic Grain
	Minerals
30 (	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
55	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
F	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
10	Nannofossils
	Foraminifers
	Siliceous Grain
3	Diatom
F	Radiolarians
F	Sillicoflagellates
2	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form revised after ODP, composition list revised after J-CORES, 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/2/13

Expedition: 338 | Observer KLM

Site: C0022 Hole: B Core: 5H Sect.: 8 Interval: 100

Sediment Name: fine ash

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
	✓		

Select one and Check.

Percent Texture		
Sand	Silt	Clay
10	90	

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
10	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
90	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: clear, unaltered glass

Form revised after ODP, composition list revised after J-CORES, 20 Nov/2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/2/13

Expedition: 338 Observer KLM

Site: C0022 Hole: B Core: 51H Sect.: 9 Interval: 12

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	40	60

Fill percentage (Total must be 100)

Percent	Composition
	Siliciclastic Grain
	Minerals
35	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
55	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
2	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
3	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
5	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: this sample + one immed. below in sharp contact: dark / light

Form revised after ODP, composition list revised after J-CORES, 20 Nov. 2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/2/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 5H Sect.: 9 Interval: 15

Sediment Name: Silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture: Sand	Silt	Clay
	25	75

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
28 (	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
60	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
2	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
10	Nannofossils
	Foraminifers
	Siliceous Grain
F	Diatom
	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: lighter lithol - see prev.; more pelagic component??; less silt

Form reviced after ODP, composition list reviced after J-CORES. 20/Nov/2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/2/13

Expedition: 338 | Observer KLM

Site: C0022 Hole: B Core: 6H Sect.: 3 Interval: 50

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	25	75

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
26 (	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
2	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
5	Nannofossils
	Foraminifers
	Siliceous Grain
F	Diatom
	Radiolarians
	Sillicoflagellates
1	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
1	Pyrite ~~Grain~~
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form reviced after ODP, composition list reviced after J-CORES. 20 Nov /2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/2/13

Expedition: 338 — Observer KLM

Site: C0022 — Hole: B — Core: 6H — Sect.: 7 — Interval: 130

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	25	75

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
27 (	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
3	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
5	Nannofossils
	Foraminifers
	Siliceous Grain
F	Diatom
	Radiolarians
F	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/2/13

Expedition: 338 — Observer KLM

Site: C0022 — Hole: B — Core: 7H — Sect.: 2 — Interval: 4

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment				Chemical Sediment
Siliciclastic	Volcaniclastic	Pelagic	Neritic	
✓				

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	40	60

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
35	Quartz
(incl. above)	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
55	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
4	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
5	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
1	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form reviced after ODP, composition list reviced after J-CORES. 20/Nov/2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/2/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 7H Sect.: 2 Interval: 89

Sediment Name: silt – highly pyritized.

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	100	

Fill percentage (Total must be 100)

Percent	Composition
	Siliciclastic Grain
	Minerals
35	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
15	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
F	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
F	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluses
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
50	Pyrite ~~Grain~~
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: dark, sandy bleb – ? burrow fill?

Sediment Smear Slide / Thin Section Description Sheet

Date: 1-2-13

Expedition: 338

Observer: KLM

Site: C0022 Hole: B Core: 7H Sect.: 6 Interval: 58

Sediment Name: sandy silt (highly pyritized)

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
25	75	5

Fill percentage (Total must be 100).

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
60 (	Quartz	2	Nannofossils		Calcareous Grain
	Feldspars	F	Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules / Crusts
	Ferromagnesian Minerals		Diatom	15	Pyrite ~~Grain~~
	Glauconite		Radiolarians		Opaque Grain
3	Clay Minerals		Sillicoflagellates		
	Zeolites		Sponge Spicule		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
20	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
	Volcaniclastic Grain		Others		
	Scoria / Pumice		Intraclast		
	Scoria		Carbonate Rock Fragment		
	Pumice		Peloid		
	Volcanic Lithic Grain		Pisolite		
	Picritic Lithic Grain		Calcareous Grain		
	Basaltic Lithic Grain		Dolomitic Grain		
	Andesitic Lithic Grain		Aragonitic Grain		
	Dacitic Lithic Grain		Sideritic Grain		
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Form reviced after ODP, composition list reviced after J-CORES. 20/Nov/2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/2/13

Expedition: 338 Observer KLM

Site: C0022 Hole: B Core: 7H Sect.: 8 Interval: 55

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Granular Sediment: Volcaniclastic	Chemical Sediment: Pelagic	Chemical Sediment: Neritic
✓			

Select one and Check.

Percent Texture: Sand	Silt	Clay
	25	75

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
30	Quartz
(30)	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
60	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
F	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
10	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form reviced after ODP, composition list reviced after J-CORES, 20/Nov/2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/2/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 8H Sect.: 1 Interval: 56

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
1	24	75

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
30	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
F	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
5	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Silicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/2/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 8H Sect.: 2 Interval: 3

Sediment Name: volcaniclastic silty sand

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Granular Sediment: Volcaniclastic	Chemical Sediment: Pelagic	Neritic
✓			

Select one and Check.

Percent Texture: Sand	Silt	Clay
55	45	

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
20 (	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
1	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
5	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
15	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
50	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
F	Foraminifers
	Siliceous Grain
	Diatom
F	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
9	Opaque Grain

Fill percentage (Total must be 100).

Remarks: yellowish mud - minor lithol

Form reviced after ODP, composition list reviced after J-CORES, 20 Nov/2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/2/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 8H Sect.: 5 Interval: 25

Sediment Name: Silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Granular Sediment: Volcaniclastic	Chemical Sediment: Pelagic	Chemical Sediment: Neritic
✓			

Select one and Check.

Percent Texture: Sand	Silt	Clay
	30	70

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
35 (	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
55	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
F	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
F	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
10	Nannofossils
F	Foraminifers
	Siliceous Grain
F	Diatom
F	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form revised after ODP, composition list revised after J-CORES. 20/Nov/2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/2/13

Expedition: 338 Observer KLM

Site: C0022 Hole: B Core: 8H Sect.: 5 Interval: 33

Sediment Name: sandy silt

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Granular Sediment: Volcaniclastic	Granular Sediment: Pelagic	Granular Sediment: Neritic	Chemical Sediment
✓				

Select one and Check.

Percent Texture: Sand	Silt	Clay
20	75	5

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
65 (Quartz + Feldspars)	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
3	Clay Minerals
	Zeolites
F	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
5	Sedimentary Lithic Grain
	Igneous Lithic Grain
25	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
2	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
5	Pyrite Grain
5	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form reviced after ODP, composition list reviced after J-CORES, 20/Nov/2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/2/13

Expedition: 338 Observer KLM

Site: C0022 Hole: B Core: 8H Sect.: 8 Interval: 34

Sediment Name: silty clay*

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

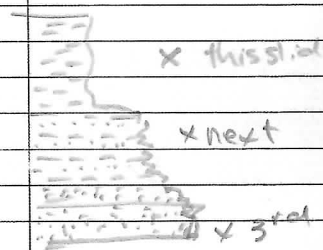
Percent Texture		
Sand	Silt	Clay
1	29	70

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
	Quartz
35 (	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
60	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
F	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
5	Nannofossils
	Foraminifers
	Siliceous Grain
F	Diatom
F	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain



Fill percentage (Total must be 100).

Remarks: * upper part of fining-upw. seq. (3 slides)

Form reviced after ODP, composition list reviced after J-CORES. 20 Nov/2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/2/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 8H Sect.: 8 Interval: 40

Sediment Name: Silty sand

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
65	30	5

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
55	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
3	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
5	Sedimentary Lithic Grain
	Igneous Lithic Grain
30	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
5	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
F	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
2	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain
F	red-brownam

Fill percentage (Total must be 100).

Remarks: see previous — part of fining upwards seq.

Sediment Smear Slide / Thin Section Description Sheet

Date 1/2/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 8H Sect.: 8 Interval: 45

Sediment Name: v. fine Sand heavily pyritized

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Granular Sediment: Volcaniclastic	Chemical Sediment: Pelagic	Chemical Sediment: Neritic
✓			

Select one and Check.

Percent Texture: Sand	Silt	Clay
90	10	

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
45 (	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
5	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
30	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
20	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form revised after ODP, composition list revised after J-CORES, 20/Nov/2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/2/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 9T Sect.: 4 Interval: 40

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Granular Sediment: Volcaniclastic	Chemical Sediment: Pelagic	Chemical Sediment: Neritic
✓			

Select one and Check.

Percent Texture: Sand	Silt	Clay
	30	70

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
30(	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
55	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
2	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
10	Nannofossils
	Foraminifers
	Siliceous Grain
1	Diatom
F	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
2	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form revised after ODP, composition list revised after J-CORES, 20 Nov/2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/2/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 9T Sect.: 4 Interval: 95

Sediment Name: Pumice fragment (crushed)

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
	✓		

Select one and Check.

Percent Texture		
Sand	Silt	Clay

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
100	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date: 1-2-13

Expedition: 338

Observer: KLM

Site: C0022 Hole: B Core: 9T Sect.: CC Interval: 10

Sediment Name: clayey silt (pyritized)

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment				Chemical Sediment
Siliciclastic	Volcaniclastic	Pelagic	Neritic	
✓				

Select one and Check.

Percent Texture		
Sand	Silt	Clay
10	45	45

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
50 (	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
40	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
15	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
5	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: did not disaggregate well

Sediment Smear Slide / Thin Section Description Sheet

Date 11-2-13

Expedition: 338

Observer KLM

Site: U0022 Hole: B Core: 10T Sect.: 3 Interval: 30

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	30	70

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
30	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
55	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
F	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
2	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
10	Nannofossils
	Foraminifers
	Siliceous Grain
2	Diatom
F	Radiolarians
F	Sillicoflagellates
1	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1-2-13

Expedition: 338 · Observer KCM

Site: C0022 Hole: B Core: 10T Sect.: 4 Interval: 105

Sediment Name: Silty Sand

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment				Chemical Sediment
Siliciclastic	Volcaniclastic	Pelagic	Neritic	
✓				

Select one and Check.

Percent Texture		
Sand	Silt	Clay
80	19	1

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
60 (	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
F	Clay Minerals
	Zeolites
F	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
35	Lithic Grain
5	Sedimentary Lithic Grain
	Igneous Lithic Grain
30	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
F	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
5	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
F	Nannofossils
F	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
F	Pyrite Grain
	Opaque Grain
F	glauconite

Fill percentage (Total must be 100).

Remarks:

Form reviced after ODP, composition list reviced after J-CORES, 20/Nov/2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/9/13

Expedition: 336 Observer: KLM

Site: C0022 Hole: B Core: 10T Sect.: 5 Interval: 10

Sediment Name: silty sand

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
60	40	

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
60	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
F	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
5	Sedimentary Lithic Grain
	Igneous Lithic Grain
20	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
2	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
5	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/1/13

Expedition: 338

Observer: KLM

Site: C0022B Hole: B Core: 10T Sect.: 5 Interval: 80

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
2	28	70

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
33	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
2	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
F	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/9/13

Expedition: 338 Observer: KLM

Site: C0022 Hole: B Core: 10T Sect.: 5 Interval: 116

Sediment Name:

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
3	37	60

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
25	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
55	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
3	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
10	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
5	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
2	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date: 1/9/13

Expedition: 338 Observer: KCM

Site: C0022 Hole: B Core: 10T Sect.: CC Interval: 12

Sediment Name: silty v. fine sd

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment: Siliciclastic	Volcaniclastic	Chemical Sediment: Peragic	Neritic
✓			

Select one and check.

Percent Texture: Sand	Silt	Clay
60	40	0

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
F	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
5	Sedimentary Lithic Grain
	Igneous Lithic Grain
20	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
10	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: nice cherts + low-rank met. grains

Sediment Smear Slide / Thin Section Description Sheet

Date 1/9/13

Expedition: 338 Observer: K-M

Site: U0022 Hole: B Core: 10T Sect.: CC Interval: 18

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	30	70

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
35	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
F	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/10/13

Expedition: 338 Observer: KLM

Site: C0022 Hole: B Core: 11 T Sect.: CC Interval: 14

Sediment Name: Sandy clayey silt

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
20	50	30

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
50	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
30	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
10	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
2	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
2	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
1	Pyrite Grain
5	Opaque Grain
F	red-brown OM

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/10/13

Expedition: 338 Observer: KLM

Site: C0022 Hole: B Core: 11T Sect.: CC Interval: 16

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	35	65

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
25	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
55	Clay Minerals
	Zeolites.
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
2	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
3	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
3	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
2	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/3/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 12X Sect.: 5 Interval: 50

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	25	75

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
30	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
F	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
5	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/3/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 13X Sect.: 1 Interval: 70

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	25	75

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
25	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
3	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
3	Nannofossils
	Foraminifers
	Siliceous Grain
1	Diatom
F	Radiolarians
	Sillicoflagellates
1	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
2	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100)

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/3/13

Expedition: 338 Observer KLM

Site: C0022 Hole: B Core: 13X Sect.: 6 Interval: 47

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
5	30	65

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
	Quartz
	Feldspars
30 (	Micas
	Ferromagnesian Minerals
	Glauconite
60	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
5	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
3	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
2	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100)

Remarks:

Form reviced after ODP, composition list reviced after J-CORES. 20 Nov/2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/3/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 13X Sect.: CC Interval: 6

Sediment Name: SILTY CLAY

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	35	65

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
35	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
60	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
F	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
2	Nannofossils
	Foraminifers
	Siliceous Grain
F	Diatom
	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
3	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100)

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/3/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 14X Sect.: 1 Interval: 104

Sediment Name: Sand

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
100		

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
57	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
5	Sedimentary Lithic Grain
	Igneous Lithic Grain
30	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
F	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
3	Pyrite ~~Grain~~
5	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form revised after ODP, composition list revised after J-CORES, 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/3/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 14X Sect.: 5 Interval: 102

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
3	27	70

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
32	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
60	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
F	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
5	Nannofossils
3	Foraminifers
	Siliceous Grain
F	Diatom
	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain
F	red-brown OM

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/3/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 15X Sect.: 2 Interval: 51

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	30	70

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
30	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
60	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
4	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
5	Nannofossils
	Foraminifers
	Siliceous Grain
F	Diatom
	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
1	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100)

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/3/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 15X Sect.: 4 Interval: 59

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	30	70

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
30	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
60	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
5	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
5	Nannofossils
	Foraminifers
	Siliceous Grain
F	Diatom
	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
F	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/3/13

Expedition: 338 Observer KLM

Site: C0022 Hole: B Core: 15X Sect.: 5 Interval: 50

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	25	75

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
25	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
5	Nannofossils
	Foraminifers
	Siliceous Grain
F	Diatom
	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
5	Pyrite ~~Grain~~
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: dark blob — ? burrow filling?