

black

13

Sediment Smear Slide / Thin Section Description Sheet

Date: 25-DEC-2013

Expedition: 348

Observer: KX

Site: C0002 Hole: P Core: 1 Sect.: 1 Interval: 12

Sediment Name: Organic rich sandy silt.

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				40	48	12

Select one and check.

Percent	Composition
Major Siliciclastic Grain Types	
22	Quartz
3	Feldspars
16	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
35	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Vitric fragments
	Clear glass
	Colored glass
	Pumice
	Volcanic lithics
	Felsitic
	Microlite
	Lathwork
	Altered volcanic(palagonite)

Percent	Composition
Pelagic Grains	
	Calcareous
	Nannofossils
1	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Algae
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
	Ooid
	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nannos)

Percent	Composition
Minor Grain Types	
2	Dense minerals ¹
2	Micas (biotite, musc, chl) ¹
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
14	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Authigenic components	
5	Pyrite (framboids)
	Pyrite (euhedral)
	Pyrite (grain coating)
1	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks:

* This form is not designed for shallow water (neritic) carbonate sediments

Core Catcher area. → Sandy

Sediment Smear Slide / Thin Section Description Sheet

Date: 25-Dec-2013

Expedition: 348

Observer: KF

Site: 0002

Hole: P

Core: 1

Sect.: CC

Interval: 20

Sediment Name: Sandy silt.

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
✓								49	36	15

Select one and check.

Select one and check.

Percent	Composition
Major Siliciclastic Grain Types	
70	Quartz
4	Feldspars
10	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
9	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
Vitric fragments	
	Clear glass
	Colored glass
	Pumice
Volcanic lithics	
	Felsitic
	Microlite
	Lathwork
	Altered volcanic(palagonite)

Percent	Composition
Pelagic Grains	
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
2	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Algae
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
	Ooid
	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nannos)

Percent	Composition
Minor Grain Types	
1	Dense minerals ¹
2	Micas (biotite, musc, chl) ¹
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Authigenic components	
3	Pyrite (framboids)
	Pyrite (euhedral)
	Pyrite (grain coating)
1	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks: Biotite.

* This form is not designed for shallow water (neritic) carbonate sediments

36
3

Coarse inside Web structure

Minor Sandstone

Sediment Smear Slide / Thin Section Description Sheet

Date: 25 Dec 2013

Expedition: 948

Observer: KY

Site: 10002 Hole: P Core: 2 Sect: 1

Interval: 19.5

Sediment Name: Sandy silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				50	35	15

Select one and check.

Percent	Composition
Major Siliciclastic Grain Types	
35	Quartz
3	Feldspars
2	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
21	Mudstone
30	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Vitric fragments
6	Clear glass
	Colored glass
	Pumice
	Volcanic lithics
	Felsitic
1	Microclite
	Lathwork
	Altered volcanic(palagonite)

Percent	Composition
Pelagic Grains	
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Algae
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
	Ooid
	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nannos)

Percent	Composition
Minor Grain Types	
	Dense minerals ¹
2	Micas (biotite, musc, chl) ¹ ✓
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
2	Terrestrial organic matter
	Other (specify):
Authigenic components	
3	Pyrite (framboids)
	Pyrite (euhedral)
	Pyrite (grain coating)
2	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks: Green clay, Biotite

* This form is not designed for shallow water (neritic) carbonate sediments

black beddy → organic rich.

Sediment Smear Slide / Thin Section Description Sheet

Date: 26 Dec. 2013

Expedition: 348

Observer: KY

Site: C0002 Hole: P Core: 2 Sect.: 1 Interval: 135

Sediment Name: Organic rich clayey silt.

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
✓								17.	45	38.

Select one and check.

Select one and check.

Percent	Composition
Major Siliciclastic Grain Types	
15.	Quartz
4	Feldspars
20	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
14	Mudstone
6.	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
Vitric fragments	
	Clear glass
	Colored glass
	Pumice
Volcanic lithics	
	Felsitic
	Microlite
	Lathwork
	Altered volcanic (palagonite)

Percent	Composition
Pelagic Grains	
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Algae
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
	Ooid
	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nanos)

Percent	Composition
Minor Grain Types	
4	Dense minerals ¹ ✓
4	Micas (biotite, musc, chl) ¹ ✓
	Glaucinite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter ✓
30	Terrestrial organic matter
	Other (specify):
Authigenic components	
3	Pyrite (framboids) ✓
	Pyrite (euhedral)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks: Chlorite, Biotite, Amphibole

* This form is not designed for shallow water (neritic) carbonate sediments

Black specks - lots of Organic Matter

Sediment Smear Slide / Thin Section Description Sheet

Date: 26 Dec 2013

Expedition: 348 Observer: K9

Site: C0002 Hole: P Core: 2 Sect.: 4 Interval: 15

Sediment Name: Organic rich sandy silt.

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
✓								50	32	18

Select one and check.

Select one and check.

Percent	Composition
Major Siliciclastic Grain Types	
34	Quartz
2	Feldspars
10	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
20	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Vitric fragments
	Clear glass
	Colored glass
	Pumice
	Volcanic lithics
	Felsitic
	Microlite
	Lathwork
	Altered volcanic (palagonite)

Percent	Composition
Pelagic Grains	
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Algae
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
	Ooid
	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nannos)

Percent	Composition
Minor Grain Types	
2	Dense minerals ¹
4	Micas (biotite, musc, chl) ¹
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
26	Terrestrial organic matter
	Other (specify):
Authigenic components	
4	Pyrite (framboids)
	Pyrite (euhedral)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks:

* This form is not designed for shallow water (neritic) carbonate sediments

Soft mixed Material.

Sediment Smear Slide / Thin Section Description Sheet

Date: 26 Dec 2013

Expedition: 248

Observer: KJ

Site: C0002 Hole: P Core: B Sect.: 1

Interval: 40

Sediment Name: Sandy clay.

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
✓								40	30	30

Select one and check.

Select one and check.

Percent	Composition
Major Siliciclastic Grain Types	
20	Quartz
2	Feldspars
23	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
43	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Vitric fragments
	Clear glass
	Colored glass
	Pumice
	Volcanic lithics
	Felsitic
	Microlite
	Lathwork
	Altered volcanic(palagonite)

Percent	Composition
Pelagic Grains	
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Algae
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
	Ooid
	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nannos)

Percent	Composition
Minor Grain Types	
4	Dense minerals ¹
	Micas (biotite, musc, chl) ¹
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
4	Terrestrial organic matter
	Other (specify):
Authigenic components	
4	Pyrite (framboids)
	Pyrite (euhedral)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks:

* This form is not designed for shallow water (neritic) carbonate sediments

Hard silty claystone

Major

Sediment Smear Slide / Thin Section Description Sheet

Date: 26, Dec. 2013

Expedition: 348

Observer: K.

Site: C0002 Hole: P Core: 3 Sect.: 1 Interval: 91

Sediment Name: silty claystone

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				13	16	70

Select one and check.

Percent	Composition
Major Siliciclastic Grain Types	
8	Quartz
2	Feldspars
20	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
30	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Vitric fragments
	Clear glass
	Colored glass
	Pumice
	Volcanic lithics
	Felsitic
	Microlite
	Lathwork
	Altered volcanic (palagonite)

Percent	Composition
Pelagic Grains	
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Algae
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
	Ooid
	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nannos)

Percent	Composition
Minor Grain Types	
6	Dense minerals ¹
4	Micas (biotite, musc, chl) ¹
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
4	Terrestrial organic matter
	Other (specify):
Authigenic components	
4	Pyrite (framboids)
	Pyrite (euhedral)
	Pyrite (grain coating)
4	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks:

* This form is not designed for shallow water (neritic) carbonate sediments

Coarse SST. (sand stone)

Major

Sediment Smear Slide / Thin Section Description Sheet

Date: 26 Dec 2013

Expedition: 348

Observer: KY

Site: C0062 Hole: P Core: 3 Sect.: 2

Interval: 120

Sediment Name: Sand stone

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
✓								35	49	16

Select one and check.

Select one and check.

Percent	Composition
Major Siliciclastic Grain Types	
25	Quartz
3	Feldspars
9	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
42	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Vitric fragments
	Clear glass
	Colored glass
	Pumice
	Volcanic lithics
	Felsitic
	Microlitic
	Lathwork
	Altered volcanic(palagonite)

Percent	Composition
Pelagic Grains	
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Algae
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
	Ooid
	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nannos)

Percent	Composition
Minor Grain Types	
6	Dense minerals ¹
6	Micas (biotite, musc, chl) ¹
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
6	Terrestrial organic matter
	Other (specify):
Authigenic components	
6	Pyrite (framboids)
	Pyrite (euhedral)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks:

* This form is not designed for shallow water (neritic) carbonate sediments

Fine silty claystone.

We got 3 same depth.

Sediment Smear Slide / Thin Section Description Sheet

Date: 26 Dec 2013

Expedition: 348 Observer: RV

Site: C0002 Hole: P Core: 3 Sect.: 1 Interval: 120

Sediment Name: STITY clay.

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
✓								19	21	60

Select one and check. Select one and check.

Percent	Composition
Major Siliciclastic Grain Types	
15	Quartz
2	Feldspars
30	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
35	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Vitric fragments
	Clear glass
	Colored glass
	Pumice
	Volcanic lithics
	Felsitic
	Microlite
	Lathwork
	Altered volcanic(palagonite)

Percent	Composition
Pelagic Grains	
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Algae
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
	Ooid
	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nannos)

Percent	Composition
Minor Grain Types	
6	Dense minerals ¹
2	Micas (biotite, musc, chl) ¹
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
6	Terrestrial organic matter
	Other (specify):
Authigenic components	
6	Pyrite (framboids)
	Pyrite (euhedral)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible Fill percentage (Total must be 100).

Remarks:

* This form is not designed for shallow water (neritic) carbonate sediments

Sediment Smear Slide / Thin Section Description Sheet

Date: 27, Dec - 2013

Expedition: 348 Observer: K5

Site: C0002 Hole: 9 Core: 4 Sect.: 1 Interval: 20

Sediment Name: Silty clay.

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
✓								4	13	83

Select one and check.

Select one and check.

Percent	Composition
Major Siliciclastic Grain Types	
10	Quartz
2	Feldspars
28	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
12	Mudstone
20	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Vitric fragments
	Clear glass
	Colored glass
2	Pumice
	Volcanic lithics
	Felsitic
2	Microlite
	Lathwork
	Altered volcanic(palagonite)

Percent	Composition
Pelagic Grains	
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Algae
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
	Ooid
	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nannos)

Percent	Composition
Minor Grain Types	
8	Dense minerals ¹
	Micas (biotite, musc, chl) ¹
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
6	Terrestrial organic matter
	Other (specify):
Authigenic components	
5	Pyrite (framboids)
	Pyrite (euhedral)
	Pyrite (grain coating)
2	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks: _____

* This form is not designed for shallow water (neritic) carbonate sediments

Sediment Smear Slide / Thin Section Description Sheet

Date: 27 Dec 2013

Expedition: 348

Observer: K5

Site: 0002 Hole: P Core: 4 Sect.: 1

Interval: 81

Sediment Name: Stily clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
<input checked="" type="checkbox"/>								4	28	68

Select one and check.

Select one and check.

Percent	Composition
Major Siliciclastic Grain Types	
15	Quartz
3	Feldspars
18	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
21	Mudstone
30	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Vitric fragments
	Clear glass
	Colored glass
	Pumice
	Volcanic lithics
	Felsitic
3	Microlite
	Lathwork
	Altered volcanic (palagonite)

Percent	Composition
Pelagic Grains	
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Algae
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
	Ooid
	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nannos)

Percent	Composition
Minor Grain Types	
3	Dense minerals ¹
3	Micas (biotite, musc, chl) ¹
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
3	Terrestrial organic matter
	Other (specify):
Authigenic components	
3	Pyrite (framboids)
	Pyrite (euhedral)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks: _____

* This form is not designed for shallow water (neritic) carbonate sediments

black spec.

Sediment Smear Slide / Thin Section Description Sheet

Date: 27 Dec 2013

Expedition: 348

Observer: KJ

Site: C0002 Hole: P Core: 4 Sect.: 2

Interval: 8

Sediment Name: organic rich silty clay.

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
V			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				8	56	36

Select one and check.

Percent	Composition
Major Siliciclastic Grain Types	
15	Quartz
4	Feldspars
12	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
15	Mudstone
21	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Vitric fragments
	Clear glass
	Colored glass
	Pumice
	Volcanic lithics
	Felsitic
	Microlite
	Lathwork
	Altered volcanic (palagonite)

Percent	Composition
Pelagic Grains	
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Algae
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
	Ooid
	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nannos)

Percent	Composition
Minor Grain Types	
3	Dense minerals ¹
3	Micas (biotite, musc, chl) ¹
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
21	Terrestrial organic matter
	Other (specify):
Authigenic components	
6	Pyrite (framboids)
	Pyrite (euhedral)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks:

* This form is not designed for shallow water (neritic) carbonate sediments

Sand Stone bed (Lentic structure).

Sediment Smear Slide / Thin Section Description Sheet

Date: 26 Dec. 2013

Expedition: 348 Observer: KY

Site: C0002 Hole: P Core: 4 Sect.: 6 Interval: 87

Sediment Name: Lenticular Sand Stone bed.

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
✓								25	60	15

Select one and check.

Select one and check.

Percent	Composition
Major Siliciclastic Grain Types	
25	Quartz
3	Feldspars
10	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
20	Mudstone
13	Siltstone/sandstone
	Limestone
3	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
Vitric fragments	
	Clear glass
	Colored glass
	Pumice
Volcanic lithics	
	Felsitic
3	Microlite
	Lathwork
	Altered volcanic (palagonite)

Percent	Composition
Pelagic Grains	
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Algae
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
	Ooid
	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nannos)

Percent	Composition
Minor Grain Types	
5	Dense minerals ¹
5	Micas (biotite, musc, chl) ¹
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
3	Terrestrial organic matter
	Other (specify):
Authigenic components	
5	Pyrite (framboids)
	Pyrite (euhedral)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks: Zircon, Amphibole, Olivine!!

* This form is not designed for shallow water (neritic) carbonate sediments

Sand. (shear zone, just above)

Sediment Smear Slide / Thin Section Description Sheet

Date: 28 Dec 2013

Expedition: 34B

Observer: KY

Site: C0002 Hole: P Core: 5 Sect.: 4

Interval: - 29

Sediment Name: Sandstone

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				65	21	14

Select one and check.

Percent	Composition
Major Siliciclastic Grain Types	
40	Quartz
2	Feldspars
4	Clay minerals
Lithic Grains	
Sedimentary Lithics	
3	Chert
19	Mudstone
12	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Vitric fragments
4	Clear glass
	Colored glass
2	Pumice
	Volcanic lithics
	Felsitic
	Microlite
	Lathwork
	Altered volcanic(palagonite)

Percent	Composition
Pelagic Grains	
	Calcareous
1	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Algae
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
	Ooid
	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nannos)

Percent	Composition
Minor Grain Types	
3	Dense minerals ¹
	Micas (biotite, musc, chl) ¹
	Glaucinite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
2	Terrestrial organic matter
	Other (specify):
Authigenic components	
5	Pyrite (framboids)
	Pyrite (euhedral)
	Pyrite (grain coating)
3	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks: Amphibole, Tourmaline

* This form is not designed for shallow water (neritic) carbonate sediments

Calcite view

Sediment Smear Slide / Thin Section Description Sheet

Date: 27 Dec. 2013

Expedition: 348

Observer: KY

Site: 0002 Hole: P Core: 5 Sect.: 4

Interval: 58

Sediment Name: Silty sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				37	45	18

Select one and check.

Percent	Composition
Major Siliciclastic Grain Types	
2	Quartz
	Feldspars
	Clay minerals
Lithic Grains	
	Sedimentary Lithics
	Chert
9	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Vitric fragments
	Clear glass
	Colored glass
	Pumice
	Volcanic lithics
	Felsitic
	Microlite
	Lathwork
	Altered volcanic(palagonite)

Percent	Composition
Pelagic Grains	
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Algae
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
	Ooid
	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nannos)

Percent	Composition
Minor Grain Types	
	Dense minerals ¹
	Micas (biotite, musc, chl) ¹
	Glaucanite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
1	Terrestrial organic matter
	Other (specify):
Authigenic components	
1	Pyrite (framboids)
	Pyrite (euhedral)
	Pyrite (grain coating)
87	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks:

* This form is not designed for shallow water (neritic) carbonate sediments

mudstone (shear zone)

matrix of web str. — should be compare with

SR-4, 65

Sediment Smear Slide / Thin Section Description Sheet

Date: 12/27

Expedition: 348

Observer: RF

Site: 2 Hole: P Core: SR Sect.: 4

Interval: 65

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
								5	40	55

Select one and check.

Select one and check.

Percent	Composition
Major Siliciclastic Grain Types	
1	Quartz
3	Feldspars
38	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
40	Mudstone (calcareous)
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Vitric fragments
3	Clear glass
3	Colored glass
1	Pumice
Volcanic lithics	
	Felsitic
	Microlite
	Lathwork
	Altered volcanic (palagonite)

Percent	Composition
Pelagic Grains	
	Calcareous
3	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Algae
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
	Ooid
	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nannos)

Percent	Composition
Minor Grain Types	
3	Dense minerals ¹
	Micas (biotite, musc, chl) ¹
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Authigenic components	
5	Pyrite (framboids)
	Pyrite (euhedral)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks: ~~zircon~~ zircon, amphybole...? tolmavine, pyrite.

* This form is not designed for shallow water (neritic) carbonate sediments

Web str.
white vein.

Sediment Smear Slide / Thin Section Description Sheet

Date: 12/27

Expedition: 348 Observer: RF

Site: 2 Hole: P Core: 5R Sect.: 4 Interval: 65

Sediment Name: Clayey sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
								45	25	30

Select one and check.

Select one and check.

Percent	Composition
Major Siliciclastic Grain Types	
3	Quartz
	Feldspars
3	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
39	Mudstone
38	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Vitric fragments
3	Clear glass
	Colored glass
	Pumice
	Volcanic lithics
	Felsitic
	Microlitic
	Lathwork
	Altered volcanic(palagonite)

Percent	Composition
Pelagic Grains	
	Calcareous
3	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Algae
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
	Ooid
	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nannos)

Percent	Composition
Minor Grain Types	
3	Dense minerals ¹
	Micas (biotite, musc, chl) ¹
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
3	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Authigenic components	
3	Pyrite (framboids)
	Pyrite (euhedral)
	Pyrite (grain coating)
2	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks: Amphibole

* This form is not designed for shallow water (neritic) carbonate sediments

Sandy crust (shear zone)

Sediment Smear Slide / Thin Section Description Sheet

Date: 12/29

Expedition: 348 Observer: RF

Site: C0002 Hole: P Core: 5R Sect.: 4 Interval: 76

Sediment Name: Sandy crust

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
								50	30	20

Select one and check.

Select one and check.

Percent	Composition
Major Siliciclastic Grain Types	
10	Quartz
2	Feldspars
3	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
36	Mudstone
32	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
Vitric fragments	
2	Clear glass
2	Colored glass
	Pumice
Volcanic lithics	
	Felsitic
	Microlite
	Lathwork
	Altered volcanic(palagonite)

Percent	Composition
Pelagic Grains	
	Calcareous
2	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Algae
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
	Ooid
	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nannos)

Percent	Composition
Minor Grain Types	
2	Dense minerals ¹
	Micas (biotite, musc, chl) ¹
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
1	Terrestrial organic matter
	Other (specify):
Authigenic components	
4	Pyrite (framboids)
	Pyrite (euhedral)
	Pyrite (grain coating)
7	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks: calcareous mud rich! , olivin, zircon; amphibole?
plagnite Gypsum(?)

* This form is not designed for shallow water (neritic) carbonate sediments

silty claystone

Footwall

Sediment Smear Slide / Thin Section Description Sheet

Date: 12/28

Expedition: 348

Observer: RF

Site: 1000r Hole: HOLEP Core: 5R Sect.: 5

Interval: 44

Sediment Name: clayey site

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
V								10	50	40

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types	
5	Quartz		Calcareous	5	Dense minerals ¹
3	Feldspars		Nannofossils	5	Micas (biotite, musc, chl) ¹
25	Clay minerals		Foraminifers		Glauconite
			Siliceous		Phosphate (bones, teeth, etc)
Lithic Grains			Diatom		Opaque Grain
	Sedimentary Lithics		Radiolarian	5	Marine organic matter
3	Chert		Silicoflagellate		Terrestrial organic matter
20	Mudstone		Sponge Spicule		Other (specify):
5	Siltstone/sandstone	Other bioclasts			
	Limestone		Mollusk	Authigenic components	
	Metamorphic lithic ?		Algae	3	Pyrite (framboids)
	Plutonic lithic		Echinoderm		Pyrite (euhedral)
			Benthic foraminifer		Pyrite (grain coating)
Volcaniclastic Grains			Other bioclast (specify)		Calcite
	Vitric fragments				Dolomite
3	Clear glass	Other carbonate allochems			Zeolites
5	Colored glass		Peloid		Fe/Mn oxide
	Pumice		Intraclast		Other (specify):
	Volcanic lithics		Ooid		
	Felsitic		Silt or sand-size carbonate allochem fragment (unspecified)		
3	Microlite				
	Lathwork		Carbonate mud (apart from nannos)		
	Altered volcanic(palagonite)				

15
30
45

1 List under remarks if possible Fill percentage (Total must be 100).
Remarks: zircon, chlorite, corundum.

* This form is not designed for shallow water (neritic) carbonate sediments

Silty claystone.

Sediment Smear Slide / Thin Section Description Sheet

Date: 27 Dec 2013

Expedition: 348

Observer: KY

Site: C0002 Hole: P Core: 6 Sect.: 1 Interval: 12

Sediment Name: Silty claystone

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
✓								5	34	61

Select one and check.

Select one and check.

Percent	Composition
Major Siliciclastic Grain Types	
6	Quartz
	Feldspars
30	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
11	Mudstone
40	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
Vitric fragments	
	Clear glass
	Colored glass
	Pumice
Volcanic lithics	
	Felsitic
	Microplitic
	Lathwork
	Altered volcanic (palagonite)

Percent	Composition
Pelagic Grains	
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
1	Diatom ✓
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Algae
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
	Ooid
	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nannos)

Percent	Composition
Minor Grain Types	
2	Dense minerals ¹ ✓
2	Micas (biotite, musc, chl) ¹
	Glaucinite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
3	Terrestrial organic matter ✓
	Other (specify):
Authigenic components	
4	Pyrite (framboids)
	Pyrite (euhedral)
	Pyrite (grain coating)
1	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks: Tourmaline.

* This form is not designed for shallow water (neritic) carbonate sediments

Sandstone.

Sediment Smear Slide / Thin Section Description Sheet

Date: 27 Dec 2013

Expedition: 348

Observer: KY

Site: 0002 Hole: P Core: 8 Sect.: 1

Interval: 39

Sediment Name: Sandstone.

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				18	35	47

Select one and check.

Percent	Composition
Major Siliciclastic Grain Types	
50.	Quartz
2	Feldspars
6	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
15	Mudstone
14.	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Vitric fragments
	Clear glass
	Colored glass
	Pumice
	Volcanic lithics
	Felsitic
	Microlite
	Lathwork
	Altered volcanic(palagonite)

Percent	Composition
Pelagic Grains	
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Algae
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
	Ooid
	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nannos)

Percent	Composition
Minor Grain Types	
2	Dense minerals ¹
2	Micas (biotite, musc, chl) ¹
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
2.	Terrestrial organic matter
	Other (specify):
Authigenic components	
5.	Pyrite (framboids)
	Pyrite (euhedral)
	Pyrite (grain coating)
4.	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks:

* This form is not designed for shallow water (neritic) carbonate sediments

clay

Sediment Smear Slide / Thin Section Description Sheet

Date: 27 Dec 2013

Expedition: 348 Observer: KY

Site: C002 Hole: P Core: 6 Sect.: 1 Interval: 93

Sediment Name: Silty claystone

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
<input checked="" type="checkbox"/>								20	30	50

Select one and check.

Select one and check.

Percent	Composition
Major Siliciclastic Grain Types	
9	Quartz
1	Feldspars
13	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
30	Mudstone
25	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Vitric fragments
	Clear glass
	Colored glass
	Pumice
	Volcanic lithics
	Felsitic
	Microlitic
	Lathwork
	Altered volcanic(palagonite)

Percent	Composition
Pelagic Grains	
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Algae
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
	Ooid
	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nanos)

Percent	Composition
Minor Grain Types	
4	Dense minerals ¹
	Micas (biotite, musc, chl) ¹
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
6	Terrestrial organic matter ✓
	Other (specify):
Authigenic components	
8	Pyrite (framboids)
	Pyrite (euhedral)
	Pyrite (grain coating)
3	Calcite ✓
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks: Tauromatose

* This form is not designed for shallow water (neritic) carbonate sediments

Silty claystone (Minor, below shear zone)

Sediment Smear Slide / Thin Section Description Sheet

Date: 29 Dec 2013

Expedition: 348 Observer: KY

Site: C0002 Hole: P Core: 6 Sect.: 4 Interval: 42

Sediment Name: Silty claystone

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
✓								15	50	35

Select one and check.

Select one and check.

Percent	Composition
Major Siliciclastic Grain Types	
7	Quartz
2	Feldspars
20	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
20	Mudstone
19	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Vitric fragments
4	Clear glass
	Colored glass
	Pumice
	Volcanic lithics
	Felsitic
	Microlite
	Lathwork
	Altered volcanic (palagonite)

Percent	Composition
Pelagic Grains	
	Calcareous
5	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Algae
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
	Ooid
	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nannos)

Percent	Composition
Minor Grain Types	
5	Dense minerals ¹
7	Micas (biotite, musc, chl) ¹ ✓
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
3	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Authigenic components	
5	Pyrite (framboids)
	Pyrite (euhedral)
	Pyrite (grain coating)
2	Calcite
1	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks: Amphibole, Muscovite

* This form is not designed for shallow water (neritic) carbonate sediments

black sand

→ We couldn't find OM!!

Sediment Smear Slide / Thin Section Description Sheet

Date: 27 Dec 2013

Expedition: 348 Observer: KY

Site: C0002 Hole: P Core: 6 Sect.: 6 Interval: 64

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
✓								6	29	65

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types	
6	Quartz		Calcareous	4	Dense minerals ¹
3	Feldspars		Nannofossils		Micas (biotite, musc, chl) ¹
8	Clay minerals		Foraminifers		Glaucinite
			Siliceous		Phosphate (bones, teeth, etc)
Lithic Grains			Diatom		Opaque Grain
	Sedimentary Lithics		Radiolarian		Marine organic matter
	Chert		Silicoflagellate		Terrestrial organic matter
30	Mudstone		Sponge Spicule		Other (specify):
41	Siltstone/sandstone	Other bioclasts			
	Limestone		Mollusk	Authigenic components	
	Metamorphic lithic		Algae	6	Pyrite (framboids)
	Plutonic lithic		Echinoderm		Pyrite (euhedral)
			Benthic foraminifer		Pyrite (grain coating)
Volcaniclastic Grains			Other bioclast (specify)		Calcite
	Vitric fragments	Other carbonate allochems			Dolomite
	Clear glass		Peloid		Zeolites
	Colored glass		Intraclast		Fe/Mn oxide
	Pumice		Ooid		Other (specify):
	Volcanic lithics		Silt or sand-size carbonate allochem fragment (unspecified)		
	Felsitic		Carbonate mud (apart from nannos)		
	Microplitic				
	Lathwork				
	Altered volcanic (palagonite)				

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks:

* This form is not designed for shallow water (neritic) carbonate sediments

Sandy. (Major, below shear zone)

Sediment Smear Slide / Thin Section Description Sheet

Date: 29 Dec. 2013

Expedition: 348 Observer: KY

Site: C0002 Hole: P Core: 6 Sect.: 6 Interval: 80

Sediment Name: Sandy silt.

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
✓								60	28	12

Select one and check.

Select one and check.

Percent	Composition
Major Siliciclastic Grain Types	
44	Quartz
2	Feldspars
3	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
9	Mudstone
21	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Vitric fragments
	Clear glass
	Colored glass
	Pumice
	Volcanic lithics
	Felsitic
2	Microlite
	Lathwork
	Altered volcanic (palagonite)

Percent	Composition
Pelagic Grains	
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Algae
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
	Ooid
	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nannos)

Percent	Composition
Minor Grain Types	
6	Dense minerals ¹
7	Micas (biotite, musc, chl) ¹
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
3	Terrestrial organic matter
	Other (specify):
Authigenic components	
6	Pyrite (framboids)
	Pyrite (euhedral)
	Pyrite (grain coating)
2	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks:

* This form is not designed for shallow water (neritic) carbonate sediments

Silty (Major Lithology, lower & below shear zone.)

Sediment Smear Slide / Thin Section Description Sheet

Date: 29 Dec 2013

Expedition: 348 Observer: KY

Site: C000+ Hole: P Core: 6 Sect.: 6 Interval: 80

Sediment Name: Silty

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
✓								14	56	30

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types	
7	Quartz		Calcareous		Dense minerals ¹
2	Feldspars	1	Nannofossils	3	Micas (biotite, musc, chl) ¹
10	Clay minerals		Foraminifers		Glauconite
			Siliceous		Phosphate (bones, teeth, etc)
Lithic Grains			Diatom		Opaque Grain
	Sedimentary Lithics		Radiolarian		Marine organic matter
	Chert		Silicoflagellate	4	Terrestrial organic matter
34	Mudstone		Sponge Spicule		Other (specify):
32	Siltstone/sandstone				
	Limestone	Other bioclasts			Authigenic components
	Metamorphic lithic		Mollusk	4	Pyrite (framboids)
	Plutonic lithic		Algae		Pyrite (euhedral)
			Echinoderm		Pyrite (grain coating)
			Benthic foraminifer	2	Calcite
			Other bioclast (specify)		Dolomite
Volcaniclastic Grains					Zeolites
	Vitric fragments	Other carbonate allochems			Fe/Mn oxide
	Clear glass		Peloid		Other (specify):
	Colored glass		Intraclast		
	Pumice		Ooid		
	Volcanic lithics		Silt or sand-size carbonate allochem fragment (unspecified)		
	Felsitic				
	Microlitic		Carbonate mud (apart from nannos)		
	Lathwork				
	Altered volcanic (palagonite)				

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks:

* This form is not designed for shallow water (neritic) carbonate sediments

Dark band (Major) below shear zone.

Sediment Smear Slide / Thin Section Description Sheet

Date: 29 Dec. 2013

Expedition: 348 Observer: KY

Site: C0002 Hole: P Core: 6 Sect.: 6 Interval: 80.

Sediment Name: Sandy silt.

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
✓								46	40	16

Select one and check. Select one and check.

Percent	Composition
Major Siliciclastic Grain Types	
8	Quartz
3	Feldspars
8	Clay minerals
Lithic Grains	
Sedimentary Lithics	
4	Chert
9	Mudstone
19	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Vitric fragments
	Clear glass
	Colored glass
5	Pumice
	Volcanic lithics
	Felsitic
	Microlite
	Lathwork
	Altered volcanic (palagonite)

Percent	Composition
Pelagic Grains	
	Calcareous
2	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Algae
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
	Ooid
	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nannos)

Percent	Composition
Minor Grain Types	
3	Dense minerals ¹
2	Micas (biotite, musc, chl) ¹
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
25	Terrestrial organic matter
	Other (specify):
Authigenic components	
10	Pyrite (framboids)
	Pyrite (euhedral)
	Pyrite (grain coating)
2	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible Fill percentage (Total must be 100).

Remarks:

* This form is not designed for shallow water (neritic) carbonate sediments

Sediment Smear Slide / Thin Section Description Sheet

Date: 27. Dec. 2013

Expedition: 848 Observer: KY

Site: C0002 Hole: P Core: 6 Sect.: CC Interval: 10.

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
✓								5	28	67

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types	
6	Quartz		Calcareous	4	Dense minerals ¹
1	Feldspars	11	Nannofossils	4	Micas (biotite, musc, chl) ¹
20	Clay minerals		Foraminifers		Glaucinite
			Siliceous		Phosphate (bones, teeth, etc)
Lithic Grains			Diatom		Opaque Grain
	Sedimentary Lithics		Radiolarian		Marine organic matter
	Chert		Silicoflagellate	8	Terrestrial organic matter
19	Mudstone		Sponge Spicule		Other (specify):
29	Siltstone/sandstone	Other bioclasts			
	Limestone		Mollusk	Authigenic components	
	Metamorphic lithic		Algae	6	Pyrite (framboids)
	Plutonic lithic		Echinoderm		Pyrite (euhedral)
			Benthic foraminifer		Pyrite (grain coating)
Volcaniclastic Grains			Other bioclast (specify)		Calcite ✓
	Vitric fragments	Other carbonate allochems			Dolomite
	Clear glass		Peloid		Zeolites
	Colored glass		Intraclast		Fe/Mn oxide
	Pumice		Ooid		Other (specify):
	Volcanic lithics		Silt or sand-size carbonate allochem fragment (unspecified)		
	Felsitic		Carbonate mud (apart from nannos)		
	Microlite				
	Lathwork				
	Altered volcanic (palagonite)				

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks: _____

* This form is not designed for shallow water (neritic) carbonate sediments