OK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/15/16

Expedition: 362

Observer: KLM

Site: U1480 Hole: F Core: 2 Sect.: 1 Interval: 26

Sediment Name: clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100		+r			15	85

Select one and check.

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

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

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

[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: 8/15/16

Expedition: 362

Observer: KLM

Site: U1480 Hole: F Core: 2 Sect.: 1 Interval: 60

Sediment Name: V. fine 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
100				85	15	

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
2	Dense minerals[1]
3	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

04

Sediment Smear Slide / Thin Section Description Sheet

Date: 08/14/16

Expedition: 362

Observer: D'KLM

Site: U1480 Hole: F Core: 2 Sect.: 4 Interval: 140

Sediment Name: fine 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
100				95	5	

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
2	Dense minerals[1]
3	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

06

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/15/16

Expedition: 362

Observer: ICum

Site: U148 Hole: F Core: 3 Sect.: 3 Interval: 30

Sediment Name: well-sorted s.lt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					100	

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
3	Dense minerals[1]
2	Micas (biotite, musc, chl)[1]
tr	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

OK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/15/16

Expedition: 362

Observer: KLM

Site: U1480 Hole: F Core: 3 Sect.: 3 Interval: 62

Sediment Name: clayey 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
100				10	60	30

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	Silt or sand-size carbonate allochem fragment (unspecified)
5	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
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

quartz OM pyroxene muscovite schist KLM sample lithic fragments

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/15/16

Expedition: 362

Observer: KLM

Site: U1480 Hole: F Core: 3 Sect.: 3 Interval: 68

Sediment Name: Clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					10	90

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
1	Opaque Grain
	Marine organic matter
tr	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

06 XRD

Sediment Smear Slide / Thin Section Description Sheet

Date: KB 8/15/16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 3 Sect.: 3 Interval: 129

Sediment Name: clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					10	90

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
2	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
tr	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

04 XRD

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-15-16

Expedition: 362 Observer: Kum

Site: U1480 Hole: F Core: 3 Sect.: 4 Interval: 129

Sediment Name: Sandy Silt w/clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100				30	55	15

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	Silt or sand-size carbonate allochem fragment (unspecified)
3	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
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

OK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/15/16

Expedition: 362 Observer:

Site: U1480 Hole: F Core: 3 Sect.: 6 Interval: 40

Sediment Name: v.fine 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
100				90	10	

Select one and check.

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

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

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

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: disturbed — contains undisaggregated mud

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

QW

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/15/16

Expedition: 362

Observer: KLM

Site: U1480 Hole: F Core: 4 Sect.: 1 Interval: 62

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
100				30	70	

Select one and check.

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

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

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
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
3	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

amazingly fine OK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/15/16

Expedition: 362 Observer:

Site: U1480 Hole: F Core: 4 Sect.: 1 Interval: 75

Sediment Name: Clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					5	95

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
tr	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
2	Pyrite (framboids)
1	Pyrite (euhedra)
	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

FIXED! It is not in the SAMPLE MANAGER !!!

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/15/16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 4 Sect.: 2 Interval: 70

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
100				25	70	5

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
3	Dense minerals[1]
2	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
3	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

04

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/15/16

Expedition: 362 Observer:

Site: U1480 Hole: F Core: 4 Sect.: 4 Interval: 62

Sediment Name: Silt w/ 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
100				15	80	5

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
1	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
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

Qft

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-15-16

Expedition: 362

Observer: KLM

Site: U1480 Hole: F Core: 5 Sect.: 1 Interval: 47

Sediment Name: clay w/ calcite

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					15	85

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	Silt or sand-size carbonate allochem fragment (unspecified)
6	Carbonate mud (apart from nannos)
	= nano silt + clay

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
1	Opaque Grain
tr	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

04

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-15-16

Expedition: 362

Observer: KLM

Site: U1480 Hole: F Core: 5 Sect.: 1 Interval: 64

Sediment Name: silt w/ clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100				5	80	15

Select one and check.

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

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

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

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: dark interval in upper part of ~2 cm fining upwards interval

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

Q4

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-15-16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 5 Sect.: 1 Interval: 65

Sediment Name: 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
100					100	

Select one and check.

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

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

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
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
2	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: light material @ base of 2 cm fining up interval

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

041

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-15-16

Expedition: 362

Observer: KLM

Site: U1482 Hole: F Core: 5 Sect.: 1 Interval: 88

Sediment Name: Silt (well sorted)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					100	

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	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
	Pyrite (framboids)
	Pyrite (euhedra)
1	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: light layer from zone of climbing ripples

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

? ✗ use for report

DLT

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-15-16

Expedition: 362

Observer: KLM

Site: U1480 Hole: F Core: 5 Sect.: 1 Interval: 93

Sediment Name: silt w/ 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
100				15	85	

Select one and check.

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

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

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

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: dark layer from zone of climbing ripples

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

OW CALCITE clay Feld Quartz XRD
0.88 15.18 33.23 50.51

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-15-16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 5 Sect.: 1 Interval: 130

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
100				55	40	5

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
3	Dense minerals[1]
2	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
2	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
5	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

XRD

Clay

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-15-16

Expedition: 362

Observer: KLM

Site: U1480 Hole: F Core: 5 Sect.: 2 Interval: 3

Sediment Name: clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					5	95

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	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
	Pyrite (framboids)
	Pyrite (euhedra)
2	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: poss. good for OM photo

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

XRD-KLM

04

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-15-16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 5 Sect.: 2 Interval: 63

Sediment Name: clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					10	90

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	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
	Pyrite (framboids)
	Pyrite (euhedra)
2	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

DK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-15-16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 5 Sect.: 4 Interval: 70

Sediment Name: Sandy silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
40	55	5

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

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

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
	Pyrite (framboids)
	Pyrite (euhedra)
2	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

OK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-15-16

Expedition: 362

Observer: KLM

Site: U1480 Hole: F Core: 6 Sect.: 1 Interval: 47

Sediment Name: clay with 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
100					15	85

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	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
	Pyrite (framboids)
	Pyrite (euhedra)
1	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: 8-15-16

Expedition: 362

Observer: KLM

Site: U1480 Hole: F Core: 6 Sect.: 1 Interval: 66

Sediment Name: silt w/ clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100				5	80	15

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	Silt or sand-size carbonate allochem fragment (unspecified)
3	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
	Pyrite (framboids)
	Pyrite (euhedra)
	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

OK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8.16.16

Expedition: 362 Observer: Farid

Site: U1480 Hole: F Core: 6H Sect.: 1A Interval: 145

Sediment Name: Pyrite + organic material (M Silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
45	30	25

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	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]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
10	Pyrite (euhedra)
30	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):
5	Organic matter?

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: Pyrite and organic matter. The pyrite is product of authigenic process (early diagenesis)

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

OK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-15-16

Expedition: 362

Observer: Ford

Site: U1480 Hole: F Core: 7H Sect.: 1A Interval: 33-40

Sediment Name: Fine sand (MAX. SIZE MEDIUM 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
100				90	5	5

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
5	Dense minerals[1]
3	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
1	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
3	AMPHIBOLE, EPIDOTE, ZIRCON, APATITE
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 16.8.16

Expedition: 362 Observer: Faul

Site: U1480 Hole: F Core: 10F Sect.: 1A Interval: 26-27

Sediment Name: Silty sand with clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100				95	90	15

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
1	Dense minerals[1]
1	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
tr	Other (specify): hornblende, zircon
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8.16.16

Expedition: 362

Observer: Farid

Site: U1480 Hole: F Core: 12F Sect.: 2A Interval: 22-23

Sediment Name: Silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
5	90	5

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

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

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

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: Pyrite (?)

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

OM

Sediment Smear Slide / Thin Section Description Sheet

Date: 8.16.16

Expedition: 362

Observer: Farid

Site: U1480 Hole: F Core: 12F Sect.: 1A Interval: 48-49

Sediment Name: Silty sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
47	43	10

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

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

Percent	Composition
	Minor Grain Types
1	Dense minerals[1]
1	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
1	Pyrite (framboids)
	Pyrite (euhedra)
	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

OK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8.16.16

Expedition: 362 Observer: Farid

Site: U1480 Hole: F Core: 12F Sect.: 2A Interval: 33-34

Sediment Name: clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					10	90

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
1	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
tr	Other (specify): epidote, opaque
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

AF

Sediment Smear Slide / Thin Section Description Sheet

Date: 8.16.16

Expedition: 362 Observer: Farid

Site: U1480 Hole: F Core: 12F Sect.: 3A Interval: 42-43

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
100				55	40	5

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
2	Dense minerals[1]
1	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
tr	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8.16.16

Expedition: 362 Observer: FANG

Site: U1480 Hole: F Core: 13F Sect.: 2A Interval: 80-81

Sediment Name: Clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					3	97

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
Tr	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

OK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-16-16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 15 Sect.: 3 Interval: 125

Sediment Name: clayey nannofoss. ooze

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	

Select one and check.

Percent Texture		
Sand	Silt	Clay
	10	90

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

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

Percent	Composition
	Minor Grain Types
	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
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: nice discoasters

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-16-16

Expedition: 362

Observer: KLM/FAJD

Site: U1480 Hole: F Core: 16 Sect.: 1 Interval: 22

Sediment Name: silt w/clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					80	20

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
2	Dense minerals[1]
1	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8-16-16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 16 Sect.: 1 Interval: 79

Sediment Name: clay w/ nanno. f.

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
80		20				

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	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
	Pyrite (framboids)
	Pyrite (euhedra)
	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

014

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-16-16

Expedition: 362 Observer: WLM

Site: U1480 Hole: F Core: 16 Sect.: 1 Interval: 84

Sediment Name: nannofoss-clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
70		30			25	75

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	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
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: light-colored material burrow-mixed into darker

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

7

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-16-16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 16 Sect.: 1 Interval: 86

Sediment Name: silty clay w/ nanno f.

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
80		20			30	70

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
20	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	Silt or sand-size carbonate allochem fragment (unspecified)
15	Carbonate mud (apart from nannos)
~	silt + clay mineral

Percent	Composition
	Minor Grain Types
	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
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: darker sed burrow - mixed w/ lighter

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

XRD

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-16-16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 16 Sect.: 1 Interval: 107

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					30	70

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	Silt or sand-size carbonate allochem fragment (unspecified)
90	Carbonate mud (apart from nannos)
	silt + clay mono.

Percent	Composition
	Minor Grain Types
	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
	Pyrite (framboids)
	Pyrite (euhedra)
	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

045

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-16-16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 16 Sect.: 2 Interval: 92

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					25	75

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	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
	Pyrite (framboids)
	Pyrite (euhedra)
2	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: 8-16-16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 16 Sect.: 2 Interval: 125

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					25	75

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	Silt or sand-size carbonate allochem fragment (unspecified)
5	Carbonate mud (apart from nannos)
	none

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
TV	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
<1	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

Photo

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-16-16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 17 Sect.: 1 Interval: 28

Sediment Name: v. fine sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
100		

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

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

Percent	Composition
	Minor Grain Types
1	Dense minerals[1]
1	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
1	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

CT

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-16-16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 17 Sect.: 1 Interval: 63

Sediment Name: clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					10	90

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
1	Opaque Grain
	Marine organic matter
tr	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

05

Sediment Smear Slide / Thin Section Description Sheet

Date: 5-16-16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 17 Sect.: 2 Interval: 15

Sediment Name: V.f-m sd w/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
100				75	15	10

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
1	Dense minerals[1]
1	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

Photo - OM, spiky ?? OM

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-16-16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 18 Sect.: 1 Interval: 22

Sediment Name: Silty Sand w/ clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
55	30	15

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

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

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

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: probably mixed by drilling disturbance; contains chunks of undisaggregated mud

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

04

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-16-16

Expedition: 362 Observer: KLM

Site: U1460 Hole: F Core: 18 Sect.: 2 Interval: 50

Sediment Name: clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	5	95

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

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

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
tr	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
1	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

Phato-met lithic; good slide for grain type)

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-16-16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 19 Sect.: 1 Interval: 6

Sediment Name: v. fine Sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
90	10	

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

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

Percent	Composition
	Minor Grain Types
5	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
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):
	brown tourmaline
	green hornblende
	garnet

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks:

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

OK there is a XRD sample at 55 m: Clay qtz feld calc 66 9 13 2.5

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-16-16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 19 Sect.: 1 Interval: 50

Sediment Name: Clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	

Select one and check.

Percent Texture		
Sand	Silt	Clay
	5	95

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

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

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
tr	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

OK

XRD

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-17-16

Expedition: 362

Observer: FARID

Site: U1480 Hole: F Core: 26F Sect.: 1A Interval: 28-29

Sediment Name: Clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100						100

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	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)
tr	Carbonate mud (apart from nannos)

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
1	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8- -16

Expedition: 362 Observer: Fanio

Site: U1480 Hole: F Core: 26F Sect.: 1A Interval: 83-84

Sediment Name: Fine Sand 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
100				75	25	

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	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)
1	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify): Zircon, epidote, apatite
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: fine sand to very fine sand

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

OK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8- 17 -16

Expedition: 362

Observer: Farid

Site: U1480 Hole: F Core: 26F Sect.: 2A Interval: 70-71

Sediment Name: Silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
4	96	

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	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)
1	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
	Terrestrial organic matter
	Other (specify): pyroxene, amphibole(?)
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

OK clay qtz feld cal XRD
30.7 5.2 3.2 61

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-17-16

Expedition: 362

Observer: Farid

Site: U1480 Hole: F Core: 26 F Sect.: 2A Interval: 118-119

Sediment Name: Volcanoes Ooze

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
		100				100

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
94	Nannofossils
%	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	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]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

OK There is a XRD sample close to this; at 126 (?)

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-17-16

Expedition: 362 Observer: Farid

Site: U1480 Hole: F Core: 27F Sect.: 1A Interval: 130-131

Sediment Name: Fine Sand Silt with clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	

Select one and check.

Percent Texture		
Sand	Silt	Clay
25	65	10

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

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

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
3	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify): APATITE
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
TR	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

OK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-17-16

Expedition: 362

Observer: Farid

Site: U1480 Hole: F Core: 27H Sect.: 1A Interval: 144-145

Sediment Name: Fine Sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100				100		

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	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)
tR	Carbonate mud (apart from nannos)

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

Zircon, Hbl, Px

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks:

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

GK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-17-16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 31F Sect.: 1 Interval: 55

Sediment Name: fine sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
90	10	

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	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
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8-17-16

Expedition: 362 Observer: LLM

Site: U1480 Hole: F Core: 33 Sect.: 1 Interval: 18

Sediment Name: Clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
5	10	85

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	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)
tr	Carbonate mud (apart from nannos)

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
tr	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

OK

Date: 8-17-16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 33F Sect.: 1 Interval: 80

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
100				60	30	10

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	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)
1	Carbonate mud (apart from nannos)
	~ Monocrys

Percent	Composition
	Minor Grain Types
	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
	Pyrite (framboids)
	Pyrite (euhedra)
	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

OK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-17-16

Expedition: 362

Observer: KLM

Site: U1480 Hole: F Core: 34 Sect.: CC Interval: 27

Sediment Name: Clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					15	85

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	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)
3	Carbonate mud (apart from nannos)
	mono silt + clay

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

d under remarks if possible

Fill percentage (Total must be 100).

marks:

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

good slide for lithics + dense min photos : brown tourmaline qtz tectonite

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/ /16

Observer: KLM

Expedition: 362

Site: U1480 F Core: 35X Sect.: 1 Interval: 38

Sediment Name: fine sd

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100				100		

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
5	Dense minerals[1]
3	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/17/16

Expedition: 362

Observer: KLM

Site: U1480 F

Core: 35X Sect.: 1

Interval: 62

Sediment Name: Sandy Silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
20	65	15

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	Silt or sand-size carbonate allochem fragment (unspecified)
3	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
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/ /16

Expedition: 362 Observer: KLM

Site: U1480 F Core: 36F Sect.: 1 Interval: 100

Sediment Name: fine sand w/ 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
				75	20	5

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	Silt or sand-size carbonate allochem fragment (unspecified)
3	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
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/ /16

Expedition: 362

Observer: KLM

Site: U1480 F

Core: 36F

Sect.: 3

Interval: 80

Sediment Name: silty sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	

Select one and check.

Percent Texture		
Sand	Silt	Clay
60	40	

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	Silt or sand-size carbonate allochem fragment (unspecified)
1	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
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

OK XRD samples at 24, 88, and 92

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/17/16

Expedition: 362 Observer: KLM

Site: U1480 F Core: 41F Sect.: 1 Interval: 90

Sediment Name: fine sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
85	15	

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

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

Percent	Composition
	Minor Grain Types
3	Dense minerals[1]
1	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):
	more garnet than above?
	less mica?
	less carb?

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks:

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

OK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/17/16

Expedition: 362 Observer: KLM

Site: U1480 F Core: 41F Sect.: 2 Interval: 63

Sediment Name: Clay w/ 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
100					15	85

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
1	Micas (biotite, musc, chl)
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
1	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

photo - MTR F

OK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/ /16

Expedition: 362

Observer: KLM

Site: U1480 F

Core: 43F

Sect.: 1

Interval: 40

Sediment Name: v. fine Sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
90	10	

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

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

Percent	Composition
	Minor Grain Types
5	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
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):
	garnets!

[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: 8/17/16

Expedition: 362 Observer: KLM

Site: U1480 F Core: 47 Sect.: 1 Interval: 24

Sediment Name: Fine Sand w/ ~10% med s

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100				85	10	5

Select one and check.

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

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

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
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: highly disturbed

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/17/16

Expedition: 362 Observer: KLM

Site: U1480 F Core: 47 Sect.: 1 Interval: 74

Sediment Name: clay w/ 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
100					15	85

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	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
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: highly disturbed

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

OK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/23/16

Expedition: 362 Observer: Farid

Site: U1480 Hole: F Core: 49F Sect.: 1A Interval: 36

Sediment Name: 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
100				80	15	5

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
6	Dense minerals[1]
1	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
1	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	hg, garnet, lp, zircon
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

II D → 9H

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-17-16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 49 Sect.: 1 Interval: 100

Sediment Name: Clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	15	85

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	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]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: NO Carb

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8- 17 -16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 49 Sect.: 1 Interval: 112

Sediment Name: clay w/ nannof.

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
90		10			10	90

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
10	Nannofossils
tr	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	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)
1	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
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
1	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: discos.

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

clay qtz feld cal
61.9 24.5 12.8 0.8 XRD at 138 cm

Sediment Smear Slide / Thin Section Description Sheet

Date: 8- 17 -16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 49 Sect.: 1 Interval: 132

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
					26	74

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	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)
1	Carbonate mud (apart from nannos)

Percent	Composition
	Minor Grain Types
	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
1	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: dessicated brownish color - unlike muds higher in core

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

gk

Sediment Smear Slide / Thin Section Description Sheet

Date: 8- 17 -16

Expedition: 362 Observer: kcm

Site: U1480 Hole: F Core: 52X Sect.: CC Interval: 15

Sediment Name: fine 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
100				100		

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	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
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8-17-16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 53X Sect.: 1 Interval: 26

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
100				70	20	10

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	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)
3	Carbonate mud (apart from nannos)
	mon.silt

Percent	Composition
	Minor Grain Types
3	Dense minerals[1]
2	Micas (biotite, musc, chl)
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/17/16

Expedition: 362 Observer: KLM

Site: U1480 F Core: 49 Sect.: 1 Interval: 36

Sediment Name: Well-sorted v. fine 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
100						

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	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
1	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8- / 7-16

Expedition: 362

Observer: KLM

Site: U1480 Hole: F Core: 53 Sect.: 1 Interval: 50

Sediment Name: Clay w/ Sil

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					20	80

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	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)
tr	Carbonate mud (apart from nannos)

Percent	Composition
	Minor Grain Types
	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
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8- 17 -16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 53 Sect.: 2 Interval: 27

Sediment Name: well-sorted v. fine 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
100				100		

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	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
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

OK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8- 17 -16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 53X Sect.: 2 Interval: 51

Sediment Name: Clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
					15	85

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	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)
tr	Carbonate mud (apart from nannos)

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
tr	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

Ok

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-17-16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 53 Sect.: 2 Interval: 64

Sediment Name: Zeolitic clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	20	80

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	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]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
30	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

UNIT III

Sediment Smear Slide / Thin Section Description Sheet

Date: 8-18-16

Expedition: 362

Observer: FOLD

Site: U1480 Hole: F Core: 54 Sect.: 1A Interval: 88

Sediment Name: clayey 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
100					56	44

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	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]
1	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
tr	Other (specify): Feldspar, hornblende
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8- -16

Expedition: 362

Observer: Fan ID

Site: U1480 Hole: F Core: 54 Sect.: 2A Interval: 117

Sediment Name: Clay (green?)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					1	99

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	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)
tr	Carbonate mud (apart from nannos)

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
1	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
1	Marine organic matter ?
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
tr	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: 8-18-16

xf edition: 362

Observer: FARID

Site: U1480 Hole: F Core: 54 Sect.: 3 A Interval: 116

Sediment Name: clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100						100

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	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]
1	Micas (biotite, musc, chl)
	Glauconite
	Phosphate (bones, teeth, etc)
tr	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

OK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/18/16

Expedition: 362 Observer: farid

Site: U1480 F Core: 54 X Sect.: 4A Interval: 116

Sediment Name: Calcareous Ooze

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	

Select one and check.

Percent Texture		
Sand	Silt	Clay
	1	99

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

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

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

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: The nannofossils are partially dissolved

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/18/16

Expedition: 362 Observer: Feed

Site: U1480 F Core: 54 Sect.: 5A Interval: 1

Sediment Name: Zeolite clayey silt (ash layer)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
	X		

Select one and check.

Percent Texture		
Sand	Silt	Clay
	70	30

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	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)
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
30	Zeolite
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/18/16

Expedition: 362 Observer: Farid

Site: U1480 F Core: 5SX Sect.: 4A Interval: 9

Sediment Name: Silty fine 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
100				80	20	

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	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
	Terrestrial organic matter
2% to	Other (specify): Hornblende, zircon, pyroxene, tourmaline, brown volcanic glass
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/ 16 /16

Expedition: 362 Observer: FARID

Site: U1480 F Core: 55X Sect.: 5A Interval: 63

Sediment Name: clay (gray)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100						100

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	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]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
5?	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

04

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/ 18 /16

Expedition: 362 Observer: Fouid

Site: U1480 F Core: 55X Sect.: 5A Interval: 100

Sediment Name: Clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
					1	99

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
1	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
1	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

OK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/18/16

Expedition: 362 Observer: Fanio

Site: U1480 F Core: 56X Sect.: 1A Interval: 10 S

Sediment Name: Clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					10	90

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	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]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
1	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/18/16

Expedition: 362 Observer: Fazio

Site: U1480 F Core: 56X Sect.: 2A Interval: 44

Sediment Name: Silty sand (ash layer)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
	X			60	40	

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
1	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
55	zeolite ? zircon ? other minerals ?
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/18/16

Expedition: 362

Observer: Feild

Site: U1480 F Core: 56X Sect.: 2A Interval: 97

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
100				40	60	

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
3	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
2	Marine organic matter
	Terrestrial organic matter
	Other (specify): Pyroxene?, epidote
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/ /16

Expedition: 362 Observer: FAnd

Site: U1480 F Core: 56X Sect.: 3A Interval: 1/6

Sediment Name: Silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100				5	40	55

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	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]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
3	Marine organic matter
	Terrestrial organic matter
	Other (specify): zircon,
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/18/16

Expedition: 362 Observer: KLM

Site: U1480 F Core: 58 Sect.: 1 Interval: 20

Sediment Name: Silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					25	75

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
1	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
1	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/18/16

Expedition: 362 Observer: KLM

Site: U1480 F Core: 59 Sect.: 1 Interval: 121

Sediment Name: clay w/ nannos

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
90		10			5	95

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	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
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: greyish clay; discos + other nannos

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/8/16

Expedition: 362 Observer: KLM

Site: U1480 F Core: 59 Sect.: 1 Interval: 27

Sediment Name: fine 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
100				85	10	5

Select one and check.

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

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

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

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: micas & heavies reduced compared to above

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

OK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/ /16

Expedition: 362 Observer:

Site: U1480 F Core: 59 Sect.: 1 Interval: 83

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
95		5			25	75

Select one and check.

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

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

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

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: brown clay

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/ 18 /16

Expedition: 362 Observer: KLM / FOTTO

Site: U1480 Hole: F Core: 60 Sect.: 1 Interval: 9

Sediment Name: Zeolitic ash layer

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

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

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
1	Dense minerals[1]
1	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
~46	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: light-colored granule-size mass in disturbed zone — highly zeolitic

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

similar radiating prismatic crystals as seen before, but lower bn

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/16/16

Expedition: 362 Observer: KLM

Site: U1480 F Core: 60 Sect.: 1 Interval: 25

Sediment Name: clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	10	90

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	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]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
Tr	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/ /16

Expedition: 362 Observer: KLM

Site: U1480 F Core: 60 Sect.: 2 Interval: 25

Sediment Name: silty fine sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
70	20	10

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	Silt or sand-size carbonate allochem fragment (unspecified)
5	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
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: mica + heavies much-reduced compared to higher in hole
also fewer MREs

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/18/16

Expedition: 362 Observer: KLM

Site: U1480 F Core: 61 Sect.: 1 Interval: 23

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
95		5			30	70

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
tr	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

good for OM PICS

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/18/16

Expedition: 362 Observer: KLM

Site: U1480 F Core: 61 Sect.: CC Interval: 41

Sediment Name: sandy silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
20	70	10

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

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

Percent	Composition
	Minor Grain Types
1	Dense minerals[1]
3	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
2	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
1	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: 8/18/16

Expedition: 362 Observer: KLM

Site: U1480 F Core: 62 Sect.: CC Interval: 8

Sediment Name: Well-sorted, v. fine sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
100		

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

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

Percent	Composition
	Minor Grain Types
1	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
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/ /16

Expedition: 362

Observer: KLM

Site: U1480 F

Core: 62 Sect.: CC

Interval: 49

Sediment Name: Silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	

Select one and check.

Percent Texture		
Sand	Silt	Clay
	25	75

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

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

Percent	Composition
	Minor Grain Types
	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
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/18/16

Expedition: 362 Observer: KLM

Site: U1480 F Core: 63 Sect.: CC Interval: 51

Sediment Name: V. fine Sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
80	20	

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

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

Percent	Composition
	Minor Grain Types
2	Dense minerals[1]
1	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

OK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/18/16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 64 Sect.: 1 Interval: 49

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					25	75

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	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
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/18/16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 64X Sect.: 1 Interval: 34

Sediment Name: silty sand poorly-sorted - ? disturbed

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100				60	30	10

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
1	Dense minerals[1]
1	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/18/16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 64 Sect.: 1 Interval: 43

Sediment Name: nannofoss. clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
70		30	

Select one and check.

Percent Texture		
Sand	Silt	Clay
	15	85

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

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

Percent	Composition
	Minor Grain Types
	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
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: Coccos + discos

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/18/16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 65 Sect.: CC Interval: 28

Sediment Name: Clay w/ 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
95		5			15	85

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	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
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/18/16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 65 Sect.: CC Interval: 41

Sediment Name: V. fine sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
85	10	5

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

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

Percent	Composition
	Minor Grain Types
3	Dense minerals[1]
1	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
1	Opaque Grain
1	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

good ~~for OM~~ pics

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/ 18 /16

Expedition: 362

Observer: KLM

Site: U1480 Hole: F Core: 66 Sect.: CC Interval: 12

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
100				60	30	10

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
1	Dense minerals[1]
3	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
2	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
1	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: 8/ /16

Expedition: 362

Observer: KLM

Site: U1480 Hole: F Core: 67 Sect.: 1 Interval: 12

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
100				50	40	10

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
5	Dense minerals[1]
1	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/18/16

Expedition: 362

Observer: KLM

Site: U1480 Hole: F Core: 67 Sect.: 1 Interval: 109

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	

Select one and check.

Percent Texture		
Sand	Silt	Clay
	25	75

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

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

Percent	Composition
	Minor Grain Types
	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
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: recrystallized nannos? dark mud

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/ 18 /16

Expedition: 362

Observer: KLM

Site: U1480 Hole: F Core: 67 Sect.: CC Interval: 7

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					30	70

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	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
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: lighter mud

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/18/16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 68 Sect.: 1 Interval: 71

Sediment Name: Silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					30	70

Select one and check.

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

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

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

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: brown mud from a section dominated by brown mud

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/18/16

Expedition: 362

Observer: KLM

Site: U1480 Hole: F Core: 68 Sect.: 3 Interval: 52

Sediment Name: clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	15	85

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

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

Percent	Composition
	Minor Grain Types
	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
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: gray clay - in an overall gray section

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/ 18 /16

Expedition: 362

Observer: KLM

Site: U1480 Hole: F Core: 68 Sect.: 3 Interval: 20

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
100				60	30	10

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	Silt or sand-size carbonate allochem fragment (unspecified)
tr	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
3	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: much of OM is near-opaque; micas heavily oxidized?

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/ 19 /16

Expedition: 362

Observer: Farid

Site: U1480 Hole: F Core: 69X Sect.: 2A Interval: 115

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	20	80

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

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

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
tr	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
tr	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
tr	Pyrite (euhedra)
	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: 8/19/16

Expedition: 362

Observer: Farid

Site: U1480 Hole: F Core: 69X Sect.: 3A Interval: 64

Sediment Name: clayey silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
5	70	25

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	Silt or sand-size carbonate allochem fragment (unspecified)
2	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
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/19/16

Expedition: 362 Observer: Farid

Site: U1480 Hole: F Core: 69X Sect.: CC A Interval: 43

Sediment Name: Silty fine sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	

Select one and check.

Percent Texture		
Sand	Silt	Clay
50	40	10

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

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

Percent	Composition
	Minor Grain Types
1/2	Dense minerals[1]
1/2	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify): epidote, zircon
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
fa	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: 8/ 18 /16

Expedition: 362 Observer: Ferd

Site: U1480 Hole: F Core: 72X Sect.: CC A Interval: 22

Sediment Name: Silty Sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment: Siliciclastic	Granular Sediment: Volcaniclastic	Granular Sediment: Pelagic	Other material	Percent Texture: Sand	Silt	Clay
								65	27	8

Select one and check. Select one and check.

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

[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: 8/ 18 /16

Expedition: 362 Observer: Farid

Site: U1480 Hole: F Core: 73X Sect.: CC Interval: 36

Sediment Name: Clayey 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
				5	65	30

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	Silt or sand-size carbonate allochem fragment (unspecified)
1	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
1	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/19/16

Expedition: 362 Observer: FAZLI

Site: U1480 Hole: F Core: 74X Sect.: 1 A Interval: 60

Sediment Name: Silty Sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100				70	30	

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
3	Dense minerals[1]
4	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
2	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: 8/ 19/16

Expedition: 362 Observer: David

Site: U1480 Hole: F Core: 74X Sect.: 2A Interval: 46

Sediment Name: Clay with silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	18	82

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

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

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
1	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
1	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/ 19 /16

Expedition: 362 Observer: Farid

Site: U1480 Hole: F Core: 78 Sect.: 1A Interval: 77

Sediment Name: clay with calcareous

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					2	98

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	Silt or sand-size carbonate allochem fragment (unspecified)
10%	Carbonate mud (apart from nannos)

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
1%	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
tr	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: 8/ 19 /16

Expedition: 362 Observer: Farid

Site: U1480 Hole: F Core: 78 Sect.: 1A Interval: 64

Sediment Name: Sandy silt with clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
40	40	20

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

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

Percent	Composition
	Minor Grain Types
1	Dense minerals[1]
1	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/ 19 /16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 80 Sect.: CC Interval: 22

Sediment Name: Silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	25	75

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

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

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
tr	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
tr	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
tr	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: 8/19/16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 91 Sect.: CC Interval: 14

Sediment Name: Sandy silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
30	65	5

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	Silt or sand-size carbonate allochem fragment (unspecified)
tr	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)
1	Opaque Grain
	Marine organic matter
tr	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/ 18 /16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 85 Sect.: CC Interval: 2

Sediment Name: ? ? unknown material

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
			✓			

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	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]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
✓	Calcite
?	Dolomite
	Zeolites
✓	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: Small (~1 cm) contorted mass in top of CC – Contains euhedral Calc. crystals & ? Fe/Mn oxide coating ?? low-birefringent material. Poss chert, poss. barite, other?

forms ~1 cm flake, ~1 mm thick

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/10/16

Expedition: 362 Observer: Fauid

Site: U1480 Hole: F Core: 88X Sect.: CC A Interval: 33

Sediment Name: silt clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					25	75

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
1	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/18/16

Expedition: 362 Observer: FAWD

Site: U1480 Hole: F Core: 88X Sect.: CCA Interval: 25

Sediment Name: Silt Sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
55	45	

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

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

Percent	Composition
	Minor Grain Types
5	Dense minerals[1]
	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
1	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Zircon
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/ 20/16

Expedition: 362 Observer: Fried

Site: U1480 Hole: F Core: 9X Sect.: 1A Interval: 38

Sediment Name: clay with organic matter

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	10	90

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	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]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
5	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/20/16

Expedition: 362 Observer: Ferd

Site: U1480 Hole: F Core: 31X Sect.: CCA Interval: 5-6

Sediment Name: clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	10	90

Percent	Composition
	Major Siliciclastic Grain Types
5%	Quartz
95%	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Vitric fragments
	Clear glass
	Colored glass
	Pumice
	Volcanic lithics
	Felsitic
	Microlitc
	Lathwork
	Altered volcanic(palagonite)

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

Percent	Composition
	Minor Grain Types
	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
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: bayer is disturbed by the injection of drilling mud.

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/ 20 /16

Expedition: 362 Observer: Feud

Site: U1480 Hole: F Core: 8 / X Sect.: CC A Interval: 8 - 9

Sediment Name: Clay with pyrite

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	

Select one and check.

Percent Texture		
Sand	Silt	Clay
	15	85

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	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]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
15	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

OK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/ 20 /16

Expedition: 362 Observer: Farid

Site: U1480 Hole: F Core: 8 X Sect.: CCA Interval: 21

Sediment Name: clay with calcareous

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	10	90

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

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

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
1	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/ 30 /16

Expedition: 362 Observer: FAMD

Site: U1480 Hole: F Core: 31X Sect.: CCA Interval: 33

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
100				30	60	10

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
1	Dense minerals[1]
1	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
tr	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

OK

Date: 8/ 20/16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 92 Sect.: 1 Interval: 35

Sediment Name: Silty sand w/ clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100				75	20	15

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
1	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
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: Poss. small nanno component - recrystallized?

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/20/16

Expedition: 362

Observer: KLM

Site: U1480 Hole: F Core: 92 Sect.: 1 Interval: 60

Sediment Name: clay w/ nannos

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
95		5			20	80

Select one and check.

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

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

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

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: discos — clearly dissolved

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/20/16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 92 Sect.: 3 Interval: 82

Sediment Name: Clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
98		2	

Select one and check.

Percent Texture		
Sand	Silt	Clay
	15	85

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

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

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
tr	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/20/16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 93 Sect.: 2 Interval: 11

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
95		5			30	70

Select one and check.

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

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

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

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: Greenish mud

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/ 20 /16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 93 Sect.: 2 Interval: 36

Sediment Name: well-sorted silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	100	

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	Silt or sand-size carbonate allochem fragment (unspecified)
5	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
+	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
1	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: light layer

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/20/16

Expedition: 362

Observer: KLM

Site: U1480 Hole: F Core: 193 Sect.: 2 Interval: 53

Sediment Name: clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					10	90

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	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
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: darker mud

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/20/16

Expedition: 362 Observer: IK-m

Site: U1480 Hole: F Core: 13 Sect.: CC Interval: 14

Sediment Name: fine 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
100				80	20	

Select one and check.

Percent	Composition
	Major Siliciclastic Grain Types
60	Quartz
25	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
5	Metamorphic lithic
	Plutonic lithic
5	Carbonate - mostly monocrystalline, some Polycrystalline
	Volcaniclastic Grains
	Vitric fragments
	Clear glass
	Colored glass
	Pumice
	Volcanic lithics
	Felsitic
	Microlitc
	Lathwork
	Altered volcanic(palagonite)

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

Percent	Composition
	Minor Grain Types
2	Dense minerals[1]
1	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
1	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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

ok

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/20/16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 94 Sect.: 1 Interval: 30

Sediment Name: clay w/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
100					20	80

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	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
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: greenish

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/22/16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 94 Sect.: 1 Interval: 111

Sediment Name: Clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	10	90

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	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]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: Clastic mud

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/ 20 /16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 94 Sect.: 3 Interval: 13

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
100				60	40	

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	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
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/ 20 /16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 94 Sect.: 4 Interval: 44

Sediment Name: fine Sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
90	10	

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

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

Percent	Composition
	Minor Grain Types
1	Dense minerals[1]
1	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
2	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: 8/20/16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 95 Sect.: 1 Interval: 13

Sediment Name: Silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	25	75

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

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

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

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: dark clay

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/26/16

Expedition: 362

Observer: KLM

Site: U1480 Hole: F Core: 95 Sect.: 1 Interval: 40

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	30	70

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

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

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

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: greenclay

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/20/16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 95 Sect.: CC Interval: 16

Sediment Name: Silty Sand w/ clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
60	20	20

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

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

Percent	Composition
	Minor Grain Types
	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
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/20/16

Expedition: 362 Observer: KLM

Site: U1480 Hole: F Core: 96 Sect.: 1 Interval: 17

Sediment Name: Sandstone

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
100			

Select one and check.

Percent Texture		
Sand	Silt	Clay
80	20	

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	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]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
40	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: massively cemented w/ 1-5mm calcite

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/20/16

Observer: Kim

Expedition: 362

Site: U1480 Hole: F Core: 96 Sect.: 1 Interval: 24

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					10	90

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	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]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
50	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: Cemented ss (?) w/ microcrystalline (1-5μm) calcite

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/20/16

Observer: KLM

Expedition: 362

Site: U1480 Hole: F Core: 96 Sect.: 1 Interval: 25

Sediment Name:

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment: Siliciclastic	Granular Sediment: Volcaniclastic	Granular Sediment: Pelagic	Other material	Percent Texture: Sand	Percent Texture: Silt	Percent Texture: Clay
				100						100 ?

Select one and check. Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	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]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
25	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: auth. µ-crystall. Cal ? same as above but gray

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/20/16

Expedition: 362

Observer: KLM

Site: U1480 Hole: F Core: 96 Sect.: 1 Interval: 38

Sediment Name: silty sd w/ clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100				50	40	30

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	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
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/ 21 /16

Expedition: 362 Observer: FAN D

Site: U1480 Hole: F Core: 86X Sect.: 2A Interval: 36

Sediment Name: FINE SAND

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100				80	20	

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
5	Dense minerals[1]
2	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Foram, rutile, apatite
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/2/16

Expedition: 362 Observer: FOLD

Site: U1480 Hole: F Core: 96X Sect.: CC Interval: 36

Sediment Name: Clay.

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
100					20	80

Select one and check.

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

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

Percent	Composition
	Minor Grain Types
	Dense minerals[1]
1	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
tr	Opaque Grain
tr	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	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: 8/20/16

Expedition: 362

Observer: KCM

Site: U1480 Hole: F Core: 96 Sect.: CC

Interval: 40

Sediment Name: fine 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
100				85	10	5

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	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
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: We got two smear slides (they have similar characteristics).

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/21/16

Expedition: 362 Observer: Farid

Site: U1480 Hole: F Core: 96X Sect.: 1A Interval: 30-31

Sediment Name: clay with nannofossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
80		20			2	98

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
20	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	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]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
1	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: Most of nannofossils have been recrystallized

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