

Unit I A
OK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/13/16

Expedition: 362

Observer: KLM

Site: U1480 Hole: E Core: 1 Sect.: 1

Interval: 22

Sediment Name: calcareous clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				55		45			15	85

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
	Quartz		Calcareous		Dense minerals ¹
	Feldspars	30	Nannofossils		Micas (biotite, musc, chl) ¹
55	Clay minerals	10	Foraminifers		Glauconite
			Siliceous		Phosphate (bones, teeth, etc)
	Lithic Grains		Diatom		Opaque Grain
	Sedimentary Lithics	5	Radiolarian		Marine organic matter
	Chert		Silicoflagellate		Terrestrial organic matter
	Mudstone		Sponge Spicule		Other (specify):
	Siltstone/sandstone				
	Limestone		Other bioclasts		
	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		Other carbonate allochems		Dolomite
	Clear glass		Peloid		Zeolites
	Colored glass		Intraclast		Fe/Mn oxide
	Pumice				Other (specify):
	Volcanic lithics		Silt or sand-size carbonate allochem fragment (unspecified)		
	Felsitic				
	Microlitic		Carbonate mud (apart from nanos)		
	Lathwork				
	Altered volcanic (palagonite)				

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks:

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

Sediment Smear Slide / Thin Section Description Sheet

OK

Date: 8/13/16

Expedition: 362 Observer: KLM

Site: U480 Hole: E Core: 1 Sect.: 1 Interval: 89

Sediment Name: clayey coccolith ooze

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				40	5	55			10	90

Select one and check.

Select one and check.

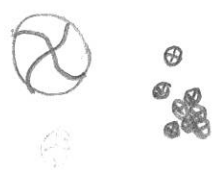
Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
	Quartz		Calcareous		Dense minerals ¹
	Feldspars	50	Nannofossils		Micas (biotite, musc, chl) ¹
40	Clay minerals		Foraminifers		Glauconite
			Siliceous		Phosphate (bones, teeth, etc)
	Lithic Grains		Diatom		Opaque Grain
	Sedimentary Lithics	5	Radiolarian		Marine organic matter
	Chert		Silicoflagellate		Terrestrial organic matter
	Mudstone		Sponge Spicule		Other (specify):
	Siltstone/sandstone				
	Limestone		Other bioclasts		
	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
5	Clear glass		Other carbonate allochems		Zeolites
	Colored glass		Peloid		Fe/Mn oxide
	Pumice		Intraclast		Other (specify):
	Volcanic lithics				
	Felsitic				
	Microlitic		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: 8/13/16

Expedition: 362 Observer: KLM

Site: 1480 Hole: E Core: 1 Sect.: 3 Interval: 103

Sediment Name: clayey coccolite

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				30		70		15	85	

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
	Quartz		Calcareous		Dense minerals ¹
	Feldspars	55	Nannofossils		Micas (biotite, musc, chl) ¹
30	Clay minerals		Foraminifers		Glauconite
			Siliceous		Phosphate (bones, teeth, etc)
	Lithic Grains	5	Diatom		Opaque Grain
	Sedimentary Lithics	5	Radiolarian		Marine organic matter
	Chert		Silicoflagellate		Terrestrial organic matter
	Mudstone		Sponge Spicule		Other (specify):
	Siltstone/sandstone				
	Limestone		Other bioclasts		
	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
10	Pumice		Intraclast		Other (specify):
	Volcanic lithics				
	Felsitic				
	Microplitic	5	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



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OK

Sediment Smear Slide / Thin Section Description Sheet

Date: _____

Expedition: _____

Observer: _____

Site: U1480 Hole: E Core: 1 Sect.: 4 Interval: 23

Sediment Name: clayey coccol. ooze

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				30		70			10	90

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
	Quartz		Calcareous		Dense minerals ¹
	Feldspars	60	Nannofossils		Micas (biotite, musc, chl) ¹
30	Clay minerals		Foraminifers		Glauconite
			Siliceous		Phosphate (bones, teeth, etc)
	Lithic Grains	5	Diatom		Opaque Grain
	Sedimentary Lithics	5	Radiolarian		Marine organic matter
	Chert		Silicoflagellate		Terrestrial organic matter
	Mudstone		Sponge Spicule		Other (specify):
	Siltstone/sandstone				
	Limestone		Other bioclats		
	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				
	Microlitic				
	Lathwork		Silt or sand-size carbonate allochem fragment (unspecified)		
	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

OK

Sediment Smear Slide / Thin Section Description Sheet

Date: _____

Expedition: _____ Observer: _____

Site: *U1480* Hole: *E* Core: *1* Sect.: *4* Interval: *76*

Sediment Name: *clay w/ nanofossils*

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				<i>76</i>		<i>24</i>			<i>5</i>	<i>95</i>

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
<i>1</i>	Quartz		Calcareous		Dense minerals ¹
	Feldspars	<i>20</i>	Nannofossils		Micas (biotite, musc, chl) ¹
<i>75</i>	Clay minerals		Foraminifers		Glauconite
	Lithic Grains		Siliceous		Phosphate (bones, teeth, etc)
	Sedimentary Lithics	<i>2</i>	Diatom		Opaque Grain
	Chert	<i>2</i>	Radiolarian		Marine organic matter
	Mudstone		Silicoflagellate		Terrestrial organic matter
	Siltstone/sandstone		Sponge Spicule		Other (specify):
	Limestone		Other bioclasts		
	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				
	Microlitic		Silt or sand-size carbonate allochem fragment (unspecified)		
	Lathwork				
	Altered volcanic (palagonite)		Carbonate mud (apart from nanos)		

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 IB

OK RD clay 714 9+ feld col 17.9 15.7 0

Sediment Smear Slide / Thin Section Description Sheet

Date: _____

Expedition: _____ Observer: KLM

Site: 1480 Hole: E Core: 1 Sect.: 5 Interval: 93

Sediment Name: clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				<u>100</u>					<u>25</u>	<u>75</u>

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
<u>15</u>	Quartz		Calcareous		Dense minerals ¹
<u>5</u>	Feldspars		Nannofossils	<u>2</u>	Micas (biotite, musc, chl) ¹
<u>75</u>	Clay minerals		Foraminifers		Glauconite
			Siliceous		Phosphate (bones, teeth, etc)
	Lithic Grains		Diatom	<u>2</u>	Opaque Grain
	Sedimentary Lithics		Radiolarian	<u>1</u>	Marine organic matter
	Chert		Silicoflagellate		Terrestrial organic matter
	Mudstone		Sponge Spicule		Other (specify):
	Siltstone/sandstone				
	Limestone		Other bioclasts		
	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				
	Microlite				
	Lathwork		Silt or sand-size carbonate allochem fragment (unspecified)		
	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: _____

Expedition: _____ Observer: _____

Site: V1480 Hole: E Core: 1 Sect.: 5 Interval: 99

Sediment Name: v fine sand

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
40	Quartz		Calcareous	2	Dense minerals ¹
20	Feldspars		Nannofossils	5	Micas (biotite, musc, chl) ¹
	Clay minerals		Foraminifers		Glauconite
	Lithic Grains		Siliceous		Phosphate (bones, teeth, etc)
	Sedimentary Lithics		Diatom	3	Opaque Grain
	Chert		Radiolarian		Marine organic matter
	Mudstone		Silicoflagellate		Terrestrial organic matter
	Siltstone/sandstone		Sponge Spicule		Other (specify):
	Limestone		Other bioclasts		
30	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				
	Microlitic		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: **8/13/2016**

Expedition: **362**

Observer: **klm**

Site: **U1480**

Hole: **E**

Core: **1**

Sept.: **CC**

Interval: **18**

Sediment Name: **fine sand**

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

Select one and check.

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
5	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Vitric fragments
	Clear glass
	Colored glass
	Pumice
	Volcanic lithics
	Felsitic
	Microlite
	Lathwork
	Altered volcanic(palagonite)

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	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
5	Micas (biotite, musc, chl) ¹
	Glaucinite
	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

GW

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/13/2016

Expedition: 362

Observer: klm

Site: U1480

Hole: E

Core: 2

Sect.: 2

Interval: 139

Sediment Name: clay with nannofossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				85		15			5	95

Select one and check.

Select one and check.

Percent	Composition
	Major Siliciclastic Grain Types
5	Quartz
3	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
	Microlite
	Lathwork
	Altered volcanic (palagonite)

Percent	Composition
	Pelagic Grains
	Calcareous
10	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	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)
2	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

AK

Date: 8/13/2016

Expedition: 362

Observer: klm

Site: U1480

Hole: E

Core: 2

Sect.: 3

Interval: 45

Sediment Name: fine sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				100				80	15	5

Select one and check.

Select one and check.

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

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

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

OK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/13/2016

Expedition: 362

Observer: klm

Site: U1480

Hole: E

Core: 2

Sect.: 5

Interval: 127

Sediment Name: clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				<u>90</u>		<u>10</u>			<u>15</u>	<u>85</u>

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
<u>10</u>	Quartz		Calcareous		Dense minerals ¹
<u>5</u>	Feldspars	<u>5</u>	Nannofossils		Micas (biotite, musc, chl) ¹
<u>75</u>	Clay minerals		Foraminifers		Glauconite
			Siliceous		Phosphate (bones, teeth, etc)
	Lithic Grains		Diatom		Opaque Grain
	Sedimentary Lithics		Radiolarian		Marine organic matter
	Chert		Silicoflagellate		Terrestrial organic matter
	Mudstone		Sponge Spicule		Other (specify):
	Siltstone/sandstone				
	Limestone		Other bioclasts		
	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				
	Microlite				
	Lathwork		Silt or sand-size carbonate allochem fragment (unspecified)		
	Altered volcanic(palagonite)				
		<u>5</u>	Carbonate mud (apart from nanos)		

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: 8/13/2016

Expedition: 362

Observer: klm

Site: U1480

Hole: E

Core: 2

Sect.: 7

Interval: 36

Sediment Name: clayey nannofossil ooze

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
	Quartz		Calcareous		Dense minerals ¹
	Feldspars	65	Nannofossils		Micas (biotite, musc, chl) ¹
30	Clay minerals	5	Foraminifers		Glauconite
			Siliceous		Phosphate (bones, teeth, etc)
	Lithic Grains		Diatom		Opaque Grain
	Sedimentary Lithics		Radiolarian		Marine organic matter
	Chert		Silicoflagellate		Terrestrial organic matter
	Mudstone		Sponge Spicule		Other (specify):
	Siltstone/sandstone				
	Limestone		Other bioclasts		
	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				
	Microlite		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

04

Date: 12.14.2016

Expedition: 362

Observer: _____

Site: U1480 Hole: E Core: 3H Sect.: 1A

Interval: 187-200

Sediment Name: grey clay with silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				<u>95</u>	<u>3</u>	<u>2</u>			<u>3</u>	<u>17</u>

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
<u>1</u>	Quartz		Calcareous		Dense minerals ¹
<u>1</u>	Feldspars		Nannofossils	<u>1</u>	Micas (biotite, musc, chl) ¹
<u>92</u>	Clay minerals		Foraminifers		Glaucinite
	Lithic Grains		Siliceous		Phosphate (bones, teeth, etc)
	Sedimentary Lithics		Diatom		Opaque Grain
	Chert		Radiolarian		Marine organic matter
	Mudstone		Silicoflagellate		Terrestrial organic matter
	Siltstone/sandstone		Sponge Spicule		Other (specify):
	Limestone		Other bioclasts		
	Metamorphic lithic		Mollusk		Authigenic components
	Plutonic lithic		Echinoderm		Pyrite (framboids)
			Benthic foraminifer		Pyrite (euhedra)
	Volcaniclastic Grains		Other bioclast (specify)		Pyrite (grain coating)
<u>3</u>	Vitric fragments				Calcite
	Clear glass		Other carbonate allochems		Dolomite
	Colored glass		Peloid		Zeolites
<u>1</u>	Pumice		Intraclast		Fe/Mn oxide
	Volcanic lithics				Other (specify):
	Felsitic		Silt or sand-size carbonate allochem fragment (unspecified)		
	Microlite				
	Lathwork				
	Altered volcanic(palagonite)				
		<u>2</u>	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

IC OH

Sediment Smear Slide / Thin Section Description Sheet

Date: 14.8.2016

Expedition: 362

Observer: FAZID

Site: U1480 Hole: E Core: 3H Sect.: 3A

Interval: 87-88

Sediment Name: clay Calcareous ooze

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				15		85			3	92

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
	Quartz		Calcareous		Dense minerals ¹
	Feldspars	70	Nannofossils		Micas (biotite, musc, chl) ¹
11	Clay minerals	2	Foraminifers		Glaucinite
			Siliceous		Phosphate (bones, teeth, etc)
	Lithic Grains	1	Diatom		Opaque Grain
	Sedimentary Lithics	11	Radiolarian		Marine organic matter
	Chert		Silicoflagellate		Terrestrial organic matter
	Mudstone	1	Sponge Spicule		Other (specify):
	Siltstone/sandstone				
	Limestone		Other bioclasts		
	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
3	Clear glass		Other carbonate allochems		Zeolites
1	Colored glass		Peloid		Fe/Mn oxide
	Pumice		Intraclast		Other (specify):
	Volcanic lithics				
	Felsitic				
	Microlite				
	Lathwork		Silt or sand-size carbonate allochem fragment (unspecified)		
	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

XRD @ 139 clay 97% fold cal
37.0 79 4.1 51.1

ALT

Sediment Smear Slide / Thin Section Description Sheet

Date: 8.14.2016

Expedition:

Observer: Fazio

Site: U1480 Hole: E Core: 3H Sect: 3A

Interval: 130-131

Sediment Name: clayey cal ooze ✓

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				40		60				100

Select one and check.

Select one and check.

Percent	Composition
	Major Siliciclastic Grain Types
6	Quartz
4	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
	Microlite
	Lathwork
	Altered volcanic (palagonite)

Percent	Composition
	Pelagic Grains
45	Calcareous
18	Nannofossils
	Foraminifers
	Siliceous
	Diatom
6	Radiolarian
	Silicoflagellate
1	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:

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

OK

Unit II A

Sediment Smear Slide / Thin Section Description Sheet

Date: 8.14.2016

Expedition: 362

Observer: FAND

Site: U1480 Hole: E Core: 3H Sect.: 7A

Interval: 34-35

Sediment Name: Calc. calcareous clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				80		20				100

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
	Quartz		Calcareous		Dense minerals ¹
80	Feldspars	15	Nannofossils	7A	Micas (biotite, musc, chl) ¹
	Clay minerals	5	Foraminifers		Glaucinite
	Lithic Grains		Siliceous		Phosphate (bones, teeth, etc)
	Sedimentary Lithics		Diatom		Opaque Grain
	Chert		Radiolarian		Marine organic matter
	Mudstone		Silicoflagellate		Terrestrial organic matter
	Siltstone/sandstone		Sponge Spicule		Other (specify):
	Limestone		Other bioclasts		
	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		Other carbonate allochems		Dolomite
	Clear glass		Peloid		Zeolites
	Colored glass		Intraclast		Fe/Mn oxide
	Pumice				Other (specify):
	Volcanic lithics				
	Felsitic				
	Microlite		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: 8.14.2016

Expedition: 362

Observer: FAO10

Site: U1480 Hole: E Core: 3H Sect.: 7A

Interval: 42-43

Sediment Name: Calcareous clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				85		5				100

Select one and check.

Select one and check.

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

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: FANID

Site: U1480

Hole: BE

Core: 4H

Sept.: 1A

Interval: 116-117

Sediment Name: clay

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
<u>5</u>	Quartz		Calcareous	<u>1</u>	Dense minerals ¹
<u>5</u>	Feldspars		Nannofossils		Micas (biotite, musc, chl)
<u>86</u>	Clay minerals		Foraminifers		Glauconite
	Lithic Grains		Siliceous		Phosphate (bones, teeth, etc)
	Sedimentary Lithics		Diatom		Opaque Grain
	Chert		Radiolarian	<u>1</u>	Marine organic matter
	Mudstone		Silicoflagellate		Terrestrial organic matter
	Siltstone/sandstone		Sponge Spicule		Other (specify):
	Limestone		Other bioclasts		
	Metamorphic lithic		Mollusk		Authigenic components
<u>1</u>	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				
	Microlite				
	Lathwork		Silt or sand-size carbonate allochem fragment (unspecified)		
	Altered volcanic(palagonite)				
		<u>1</u>	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

OK

Date: 8/19/16

Expedition: 362

Observer: Faujal

Site: U1480 Hole: E

Core: 4H Sect.: 2A

Interval: 105-106

Sediment Name:

Silt (fucifaceous)?

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
<u>40</u>	Quartz		Calcareous	<u>3</u>	Dense minerals ¹
<u>35</u>	Feldspars		Nannofossils	<u>2</u>	Micas (biotite, musc, chl)
	Clay minerals		Foraminifers		Glauconite
			Siliceous		Phosphate (bones, teeth, etc)
	Lithic Grains		Diatom	<u>2</u>	Opaque Grain
	Sedimentary Lithics		Radiolarian		Marine organic matter
	Chert		Silicoflagellate		Terrestrial organic matter
	Mudstone		Sponge Spicule		Other (specify):
	Siltstone/sandstone				
	Limestone		Other bioclasts		
	Metamorphic lithic		Mollusk		Authigenic components
	Plutonic lithic		Echinoderm		Pyrite (framboids)
			Benthic foraminifer		Pyrite (euhedra)
			Other bioclast (specify)	<u>15</u>	Pyrite (grain coating)
	Volcaniclastic Grains				Calcite
<u>3</u>	Vitric fragments				Dolomite
	Clear glass		Other carbonate allochems		Zeolites
	Colored glass		Peloid		Fe/Mn oxide
	Pumice		Intraclast		Other (specify):
	Volcanic lithics				
	Felsitic				
	Microlitic	<u>60</u>	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/ /16

Expedition: 362

Observer: _____

Site: U1480

Hole: F

Core: E

Sect.: 3A

Interval: 11-12

Sediment Name: _____

silt (tu/fucos)?

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				<u>25</u>	<u>25?</u>			<u>2</u>	<u>98</u>	

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
<u>45</u>	Quartz		Calcareous	<u>3</u>	Dense minerals ¹
<u>45</u>	Feldspars		Nannofossils		Micas (biotite, musc, chl)
	Clay minerals		Foraminifers		Glaucinite
			Siliceous		Phosphate (bones, teeth, etc)
	Lithic Grains		Diatom		Opaque Grain
	Sedimentary Lithics		Radiolarian	<u>1</u>	Marine organic matter
	Chert		Silicoflagellate		Terrestrial organic matter
	Mudstone		Sponge Spicule		Other (specify):
	Siltstone/sandstone				
	Limestone		Other bioclasts		
	Metamorphic lithic		Mollusk		Authigenic components
<u>4</u>	Plutonic lithic		Echinoderm		Pyrite (framboids)
			Benthic foraminifer		Pyrite (euhedra)
			Other bioclast (specify)	<u>3</u>	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				
	Microlitic	<u>2</u>	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

Handwritten initials

Date: 8/19/16

Expedition: 362

Observer: Foid

Site: U1480 Hole: F Core: 4H Sect.: 3A

Interval: 61-62

Sediment Name: fulfacous silt?

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				<u>75%</u>	<u>25%</u>			<u>5</u>	<u>95</u>	

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
<u>36</u>	Quartz		Calcareous	<u>4</u>	Dense minerals ¹
<u>30</u>	Feldspars		Nannofossils	<u>1</u>	Micas (biotite, musc, chl)
<u>2</u>	Clay minerals		Foraminifers		Glauconite
			Siliceous		Phosphate (bones, teeth, etc)
	Lithic Grains		Diatom		Opaque Grain
	Sedimentary Lithics		Radiolarian		Marine organic matter
	Chert		Silicoflagellate		Terrestrial organic matter
	Mudstone		Sponge Spicule		Other (specify):
	Siltstone/sandstone				
	Limestone		Other bioclasts		
	Metamorphic lithic		Mollusk		Authigenic components
	Plutonic lithic		Echinoderm		Pyrite (framboids)
			Benthic foraminifer		Pyrite (euhedra)
			Other bioclast (specify)	<u>3</u>	Pyrite (grain coating)
	Volcaniclastic Grains				Calcite
<u>3</u>	Vitric fragments				Dolomite
	Clear glass		Other carbonate allochems		Zeolites
	Colored glass		Peloid		Fe/Mn oxide
	Pumice		Intraclast		Other (specify):
	Volcanic lithics				
	Felsitic				
	Microlitic	<u>3</u>	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: nice examples of spike Fe-sulfid rosettes, + grain coatings

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

AK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/13/2016

Expedition: 362

Observer: klm

Site: U1480

Hole: E

Core: 4H

Sect.: 4

Interval: 57

Sediment Name: fine sand

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
60	Quartz		Calcareous	5	Dense minerals ¹
20	Feldspars		Nannofossils	3	Micas (biotite, musc, chl) ¹
	Clay minerals		Foraminifers		Glauconite
			Siliceous		Phosphate (bones, teeth, etc)
	Lithic Grains		Diatom	2	Opaque Grain
	Sedimentary Lithics		Radiolarian		Marine organic matter
	Chert		Silicoflagellate		Terrestrial organic matter
	Mudstone		Sponge Spicule		Other (specify):
	Siltstone/sandstone				
	Limestone		Other bioclasts		
10	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				
	Microlite		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

XRD@ 133 clay 9 f cw
15.2 36.5 33.4 0.9

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/13/2016

Expedition: 362

Observer: klm

Site: U1480

Hole: E

Core: 5H

Sect.: 1

Interval: 90

Sediment Name: V. fine Sand

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
60	Quartz		Calcareous	3	Dense minerals ¹
23	Feldspars		Nannofossils	2	Micas (biotite, musc, chl) ¹
10	Clay minerals		Foraminifers		Glauconite
	Lithic Grains		Siliceous		Phosphate (bones, teeth, etc)
	Sedimentary Lithics		Diatom	5	Opaque Grain
	Chert		Radiolarian		Marine organic matter
	Mudstone		Silicoflagellate		Terrestrial organic matter
	Siltstone/sandstone		Sponge Spicule		Other (specify):
	Limestone		Other bioclasts		
5	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				
	Microlite		Silt or sand-size carbonate allochem fragment (unspecified)		
	Lathwork				
	Altered volcanic (palagonite)		Carbonate mud (apart from nanos)		

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: 8/13/2016

Expedition: 362

Observer: klm

Site: U1480

Hole: E

Core: 614

Sect.: 1

Interval: 37

Sediment Name: fine sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				<u>100</u>				<u>90</u>	<u>10</u>	

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
<u>60</u>	Quartz		Calcareous	<u>5</u>	Dense minerals ¹
<u>20</u>	Feldspars		Nannofossils	<u>3</u>	Micas (biotite, musc, chl) ¹
	Clay minerals		Foraminifers		Glauconite
			Siliceous		Phosphate (bones, teeth, etc)
	Lithic Grains		Diatom	<u>2</u>	Opaque Grain
	Sedimentary Lithics		Radiolarian		Marine organic matter
	Chert		Silicoflagellate		Terrestrial organic matter
	Mudstone		Sponge Spicule		Other (specify):
	Siltstone/sandstone				
	Limestone		Other bioclasts		
<u>10</u>	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				<u>green amphiboles</u>
	Microlitic		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

XRD @ 26 cm Cl 9 f cal
71.2 238 5.4 0

WT

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/13/2016

Expedition: 362 Observer: klm

Site: U1480 Hole: E Core: 6H Sect.: 2 Interval: 102

Sediment Name: clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				100				5	90	

Select one and check.

Select one and check.

20
65

Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
15	Quartz		Calcareous		Dense minerals ¹
	Feldspars		Nannofossils		Micas (biotite, musc, chl) ¹
85	Clay minerals		Foraminifers		Glauconite
			Siliceous		Phosphate (bones, teeth, etc)
	Lithic Grains		Diatom	2	Opaque Grain
	Sedimentary Lithics		Radiolarian		Marine organic matter
	Chert		Silicoflagellate		Terrestrial organic matter
	Mudstone		Sponge Spicule		Other (specify):
	Siltstone/sandstone				
	Limestone		Other bioclasts		
	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				
	Microplitic				
	Lathwork		Silt or sand-size carbonate allochem fragment (unspecified)		
	Altered volcanic (palagonite)				
		8	Carbonate mud (apart from nannos)		

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks: unknown - extrabasinal vs. auth.

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

DK

XRD clay 9 f cal
12.2 36.4 50.5 0.9

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/13/2016

Expedition: 362

Observer: klm

Site: U1480

Hole: E

Core: 6H

Sect.: 3

Interval: 42

Sediment Name: v. fine sand w/clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				<u>100</u>				<u>95</u>	<u>5</u>	

Select one and check.

Select one and check.

30 10

30
45
10

Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
<u>55</u>	Quartz		Calcareous	<u>5</u>	Dense minerals ¹
<u>25</u>	Feldspars		Nannofossils	<u>3</u>	Micas (biotite, musc, chl) ¹
<u>5</u>	Clay minerals		Foraminifers		Glauconite
			Siliceous		Phosphate (bones, teeth, etc)
	Lithic Grains		Diatom	<u>2</u>	Opaque Grain
	Sedimentary Lithics		Radiolarian		Marine organic matter
	Chert		Silicoflagellate		Terrestrial organic matter
	Mudstone		Sponge Spicule		Other (specify):
	Siltstone/sandstone				
	Limestone		Other bioclasts		
	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				
	Microlitic				
	Lathwork		Silt or sand-size carbonate allochem fragment (unspecified)		
	Altered volcanic(palagonite)				
		<u>5</u>	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

AK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/14/16

Expedition: 362

Observer: KLM

Site: U1480 Hole: E

Core: 7 Sect.: 1

Interval: 41

Sediment Name: clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				100				10	90	

Select one and check.

Select one and check.

Percent	Composition
	Major Siliciclastic Grain Types
3	Quartz
2	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
	Microlite
	Lathwork
	Altered volcanic (palagonite)

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	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)
	monocrystall. carb

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

XRD @ 88 CI 9 f cal
13.2 59.1 27 0.7

Sediment Smear Slide / Thin Section Description Sheet

Date: 8/14/16

Expedition: 362 Observer: KLM

Site: U1480 Hole: E Core: 7 Sect.: 1 Interval: 94

Sediment Name: med sand

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
55	Quartz		Calcareous	5	Dense minerals ¹
20	Feldspars		Nannofossils	5	Micas (biotite, musc, chl) ¹
	Clay minerals		Foraminifers		Glauconite
			Siliceous		Phosphate (bones, teeth, etc)
	Lithic Grains		Diatom		Opaque Grain
	Sedimentary Lithics		Radiolarian		Marine organic matter
	Chert		Silicoflagellate		Terrestrial organic matter
	Mudstone		Sponge Spicule		Other (specify):
	Siltstone/sandstone				
	Limestone		Other bioclasts		
10	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				abundant dense
	Microlite		Silt or sand-size carbonate allochem fragment (unspecified)		minerals:
	Lathwork				green amphibole
	Altered volcanic (palagonite)				blue-green "
			Carbonate mud (apart from nannos)		Zirc.
5	Minor monocryst. Calcite				epidote/zoisite
					garnet
					tourmaline
					sillimanite??
					apatite

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks: _____

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

Handwritten note:
Use the calc count
to calculate
the C/F/R
portions.

UNIT II A - top at core 7, Section 6

Sediment Smear Slide / Thin Section Description Sheet

Date: 8.14.2016

Expedition: 362

Observer: Farid

Site: U1480 Hole: E Core: 9H Sect.: 1A

Interval: 86-87

Sediment Name: clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				96	3	1			3	97

Select one and check.

Select one and check.

Percent	Composition
	Major Siliciclastic Grain Types
	Quartz
	Feldspars
87	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
	Microlite
	Lathwork
	Altered volcanic (palagonite)

Percent	Composition
1	Pelagic Grains
	Calcareous
1	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	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
7	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

OH

Sediment Smear Slide / Thin Section Description Sheet

Date: 14.8.2016

Expedition: 362

Observer: FA10

Site: U1480 Hole: E Core: SH Sect.: SA

Interval: 90-91

Sediment Name: silty fine sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				100				70	25	5

Select one and check.

Select one and check.

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

OK

Sediment Smear Slide / Thin Section Description Sheet

Date: 8.14.16

Expedition: 362

Observer: Farid

Site: U1480 Hole: E Core: 10H Sect.: 2A

Interval: 66-67

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				70	30	

Select one and check.

Percent	Composition
	Major Siliciclastic Grain Types
40	Quartz
20	Feldspars
15	Clay minerals
3	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
	Microlitic
	Lathwork
	Altered volcanic(palagonite)

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	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 nanos)

Percent	Composition
	Minor Grain Types
5	Dense minerals ¹
7	Micas (biotite, musc, chl) ¹
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Pyroxene?, Epidote?
	Pyrameline
	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

IB GW

Sediment Smear Slide / Thin Section Description Sheet

Date: 8.14.16

Expedition: 362

Observer: Fano

Site: UN80 Hole: E Core: 10H Sect.: 4

Interval: 81-82

Sediment Name: calcareous ooze

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				5		95				100

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
	Quartz		Calcareous		Dense minerals ¹
	Feldspars	75	Nannofossils		Micas (biotite, musc, chl) ¹
5	Clay minerals	20	Foraminifers		Glauconite
			Siliceous		Phosphate (bones, teeth, etc)
	Lithic Grains		Diatom		Opaque Grain
	Sedimentary Lithics		Radiolarian		Marine organic matter
	Chert		Silicoflagellate		Terrestrial organic matter
	Mudstone		Sponge Spicule		Other (specify):
	Siltstone/sandstone				
	Limestone		Other bioclasts		
	Metamorphic lithic		Mollusk		Authigenic components
	Plutonic lithic		Echinoderm		Pyrite (framoids)
			Benthic foraminifer		Pyrite (euhedra)
	Volcaniclastic Grains		Other bioclast (specify)		Pyrite (grain coating)
	Vitric fragments				Calcite
	Clear glass		Other carbonate allochems		Dolomite
	Colored glass		Peloid		Zeolites
	Pumice		Intraclast		Fe/Mn oxide
	Volcanic lithics				Other (specify):
	Felsitic				
	Microlite				
	Lathwork				
	Altered volcanic(palagonite)				

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

Remarks: _____

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

IIC *GW*

Sediment Smear Slide / Thin Section Description Sheet

Date: 14.8.16

Expedition: 362

Observer: Fauvel

Site: V1480 Hole: E Core: 10H Sect.: SA

Interval: 121-122

Sediment Name: clay with carbonate allochems

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
99		4				60

Select one and check.

Percent	Composition
Major Siliciclastic Grain Types	
20	Quartz
99	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
	Microlite
	Lathwork
	Altered volcanic (palagonite)

Percent	Composition
Pelagic Grains	
	Calcareous
2	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	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) ¹
	Glaucinite
	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: 8.14.16

Expedition: 362

Observer: Fand

Site: 61480 Hole: E Core: 10A Sect.: 6A

Interval: 101-102

Sediment Name: clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				100					15	85

Select one and check. Select one and check.

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

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

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

OK
Sediment Smear Slide / Thin Section Description Sheet

Date: 14.8.16

Expedition: 362

Observer: FAND

Site: 01480 Hole: E Core: 11H Sect.: 1A

Interval: 111-112

Sediment Name: clay silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				100				80	20	

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
<u>35</u>	Quartz		Calcareous		Dense minerals ¹
<u>45</u>	Feldspars		Nannofossils	<u>2</u>	Micas (biotite, musc, chl) ¹
<u>10</u>	Clay minerals		Foraminifers		Glaucinite
			Siliceous		Phosphate (bones, teeth, etc)
	Lithic Grains		Diatom	<u>5</u>	Opaque Grain
	Sedimentary Lithics		Radiolarian		Marine organic matter
	Chert		Silicoflagellate		Terrestrial organic matter
	Mudstone		Sponge Spicule	<u>1</u>	Other (specify): <u>zircon, zirconite</u>
	Siltstone/sandstone				
	Limestone		Other bioclasts		Authigenic components
	Metamorphic lithic		Mollusk		Pyrite (framboids)
	Plutonic lithic		Echinoderm		Pyrite (euhedra)
			Benthic foraminifer		Pyrite (grain coating)
	Volcaniclastic Grains		Other bioclast (specify)		Calcite
	Vitric fragments				Dolomite
	Clear glass		Other carbonate allochems		Zeolites
	Colored glass		Peloid		Fe/Mn oxide
	Pumice		Intraclast		Other (specify):
	Volcanic lithics				
	Felsitic				
	Microlitic				
	Lathwork				
	Altered volcanic (palagonite)				
		<u>2%</u>	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: 8.14.16

Expedition: 362

Observer: Farid

Site: 01480 Hole: E Core: 114 Sect.: 2A

Interval: 101-102

Sediment Name: clayey silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				100					75	25

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
50	Quartz		Calcareous		Dense minerals ¹
30	Feldspars		Nannofossils	2	Micas (biotite, musc, chl) ¹
15	Clay minerals		Foraminifers		Glauconite
	Lithic Grains		Siliceous		Phosphate (bones, teeth, etc)
	Sedimentary Lithics		Diatom	1	Opaque Grain
	Chert		Radiolarian		Marine organic matter
	Mudstone		Silicoflagellate		Terrestrial organic matter
	Siltstone/sandstone		Sponge Spicule		Other (specify):
	Limestone		Other bioclasts		
	Metamorphic lithic		Mollusk		Authigenic components
	Plutonic lithic		Echinoderm		Pyrite (framboids)
	Volcaniclastic Grains		Benthic foraminifer		Pyrite (euhedra)
	Vitric fragments		Other bioclast (specify)		Pyrite (grain coating)
	Clear glass				Calcite
1	Colored glass		Other carbonate allochems		Dolomite
	Pumice		Peloid		Zeolites
	Volcanic lithics		Intraclast		Fe/Mn oxide
	Felsitic				Other (specify):
	Microlitic		Silt or sand-size carbonate allochem fragment (unspecified)		
	Lathwork				
	Altered volcanic (palagonite)				
		1	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: 8.14.16

Expedition: 362

Observer: FARID

Site: U1480 Hole: E Core: U14 Sect.: 2A

Interval: 60-61

Sediment Name: SILTY CLAY

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				<u>99</u>		<u>1</u>			<u>30</u>	<u>70</u>

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
<u>15</u>	Quartz		Calcareous		Dense minerals ¹
<u>15</u>	Feldspars	<u>1</u>	Nannofossils	<u>4</u>	Micas (biotite, musc, chl) ¹
<u>64</u>	Clay minerals		Foraminifers		Glauconite
	Lithic Grains		Siliceous		Phosphate (bones, teeth, etc)
	Sedimentary Lithics		Diatom	<u>1</u>	Opaque Grain
	Chert		Radiolarian		Marine organic matter
	Mudstone		Silicoflagellate		Terrestrial organic matter
	Siltstone/sandstone		Sponge Spicule		Other (specify):
	Limestone		Other bioclasts		
	Metamorphic lithic		Mollusk		Authigenic components
	Plutonic lithic		Echinoderm		Pyrite (framboids)
			Benthic foraminifer		Pyrite (euhedra)
	Volcaniclastic Grains		Other bioclast (specify)		Pyrite (grain coating)
	Vitric fragments				Calcite
	Clear glass		Other carbonate allochems		Dolomite
	Colored glass		Peloid		Zeolites
	Pumice		Intraclast		Fe/Mn oxide
	Volcanic lithics				Other (specify):
	Felsitic		Silt or sand-size carbonate allochem fragment (unspecified)		
	Microkite				
	Lathwork		Carbonate mud (apart from nanos)		
	Altered volcanic (palagonite)				

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks: _____

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

OK

Sediment Smear Slide / Thin Section Description Sheet

Date: 14.8.16

Expedition: 362

Observer: Folie

Site: U1480 Hole: E Core: 11H Sect.: 6A

Interval: 62-63

Sediment Name: clay with calcareous

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				98		2				100

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
20	Quartz	2	Calcareous	1	Dense minerals ¹
15	Feldspars		Nannofossils		Micas (biotite, musc, chl) ¹
60	Clay minerals		Foraminifers		Glauconite
			Siliceous		Phosphate (bones, teeth, etc)
	Lithic Grains		Diatom	2	Opaque Grain
	Sedimentary Lithics		Radiolarian		Marine organic matter
	Chert		Silicoflagellate		Terrestrial organic matter
	Mudstone		Sponge Spicule		Other (specify):
	Siltstone/sandstone				
	Limestone		Other bioclasts		
	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				
	Microlitic				
	Lathwork		Silt or sand-size carbonate allochem fragment (unspecified)		
	Altered volcanic (palagonite)				
			Carbonate mud (apart from nanos)		

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: 8.14.16

Expedition: 362

Observer: FANU

Site: 01980 Hole: E Core: 12H Sect.: 4A

Interval: 80-81

Sediment Name: Sandy silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				100				85	75	

Select one and check.

Select one and check.

Percent	Composition
	Major Siliciclastic Grain Types
30	Quartz
56	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
	Microplitic
	Lathwork
	Altered volcanic (palagonite)

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	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)
5	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
1	Other (specify): <u>APATITE, ZIRCON, EPIDOTE</u>
	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