

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 14/03/18

Expedition: 375

Observer: FT / M

Site: V1518 Hole: E Core: 1 Sect.: 1 Interval: 76 cm

Sediment Name: Silty clay with nanofossils

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

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition	T/R/P/C/A/D/M	Composition	T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types	
<u>P</u>	Quartz		Calcareous	<u>R</u>	Dense minerals ¹
<u>P</u>	Feldspars	<u>E</u>	Nannofossils	<u>R</u>	Micas (biotite, musc, chl) ¹
	Clay minerals	<u>R</u>	Foraminifers	<u>T</u>	Glauconite
			Siliceous		Phosphate (bones, teeth, etc)
	Lithic Grains		Diatom		Opaque Grain
	Sedimentary Lithics		Radiolarian		Marine organic matter
	Chert		Silicoflagellate		Terrestrial organic matter
	Mudstone	<u>R</u>	Sponge Spicule		Other (specify):
<u>R</u>	Siltstone/sandstone	<u>R</u>			
	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
<u>L</u>	Clear glass		Peloid		Zeolites
<u>R</u>	Colored glass		Intraclast		Fe/Mn oxide
	Pumice				Other (specify):
<u>P</u>	Volcanic lithics				
	Felsitic		Silt or sand-size carbonate allochem fragment (unspecified)		
	Microlitic				
	Lathwork		Carbonate mud (apart from nannos)		
	Altered volcanic (palagonite)				

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/14/18

Expedition: 375

Observer: Noda/Me

Site: U1518 Hole: E Core: 1 Sect.: 3A

Interval: 106 cm

Sediment Name: silty clay nanofossil-rich

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				0	10	90

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
D	Nannofossils
P	Foraminifers
	Siliceous
	Diatom
	Radiolarian
P	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
T	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)
P	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
P	Fe/Mn oxide
	Other (specify):

List under remarks if possible

Fill percentage (Total must be 100).

Remarks: light colored nanofossil-rich hemipelagic mud.

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/14/18

Expedition: 375

Observer: Noda/Rc

Site: U1518

Hole: E

Core:

Sect.: 3A

Interval: 123cm

Sediment Name:

↑ silty clay with volcanic clastics
nanofossil-rich 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
X				0	40	60

Select one and check.

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

Percent	Composition
	Pelagic Grains
	Calcareous
D	Nannofossils
P	Foraminifers
	Siliceous
	Diatom
	Radiolarian
R	Silicoflagellate
P	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
R	Dense minerals ¹
P	Micas (biotite, musc, chl) ¹
P	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
R	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
R	Fe/Mn oxide
	Other (specify):

List under remarks if possible

Fill percentage (Total must be 100).

Remarks: dark colored turbidite mud, nanofossil.
OPX

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 19.3.18

Expedition: 375 Observer: Vn

Site: 1518 Hole: E Core: 1 Sect.: 4 Interval: 16

Sediment Name: Ash

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.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
<u>D</u>	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Melamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Vitric fragments
<u>M</u>	Clear glass
	Colored glass
	Pumice
	Volcanic lithics
<u>R</u>	Felsitic
	Microlitic
	Lathwork
	Altered volcanic (palagonite)

T/R/P/C/A/D/M	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)

T/R/P/C/A/D/M	Composition
	Minor Grain Types
<u>D</u>	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
<u>R</u>	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 19.8.78

Expedition: 375

Observer: 161

Site: 1598 Hole: E Core: 1 Sect.: 4 Interval: 78

Sediment Name: ASH/GFF

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
								30	60	10

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
R	Quartz
P	Feldspars
	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
R	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
M	Transparent glass
	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
Authigenic components	
	Pyrite
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
C	Nannofossils
	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Minor Other Grain Types	
	Phosphate (bones, teeth, etc)
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Other carbonate allochems	
	Peloid
	Intraclast

T/R/P/C/A/D/M	Composition
Minor Mineral Grain Types	
	Olivine
	Pyroxene
P	Amphibole
R	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glaucinite
	Opaque Grain
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 19.3.78

Expedition: 375 Observer: 124

Site: 1578 Hole: E Core: 1 Sect.: 4 Interval: 127

Sediment Name: Ash/Tuff

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

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
<u>B</u>	Quartz
	Feldspars
	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Transparent glass
<u>P</u>	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
Authigenic components	
<u>R</u>	Pyrite
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
<u>T</u>	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify):
Minor Other Grain Types	
	Phosphate (bones, teeth, etc)
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Other carbonate allochems	
	Peloid
	Intraclast

T/R/P/C/A/D/M	Composition
Minor Mineral Grain Types	
	Olivine
	Pyroxene
<u>P</u>	Amphibole
	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glaucanite
	Opaque Grain
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 19.3.18

Expedition: 375

Observer: Rm

Site: B518

Hole: E

Core: 7

Sect.: 6

Interval: 37

Sediment Name: Ash / Tuff

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

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

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
	Quartz
P	Feldspars
	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
M	Transparent glass
	Colored glass
T	Volcanic lithics
	Altered volcanic(e.g. palagonite)
Authigenic components	
R	Pyrite
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
P	Nannofossils
	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify):
Minor Other Grain Types	
	Phosphate (bones, teeth, etc)
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Other carbonate allochems	
	Peloid
	Intraclast

T/R/P/C/A/D/M	Composition
Minor Mineral Grain Types	
	Olivine
P	Pyroxene
P	Amphibole
	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glaucanite
	Opaque Grain
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 19.3.18

Expedition: 375

Observer: 126

Site: B518

Hole: E

Core: 2

Sect.: 1

Interval: 120

Sediment Name: ash/tuff

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

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
	Quartz
R	Feldspars
	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
R	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
M	Transparent glass
	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
Authigenic components	
R	Pyrite
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
R	Nannofossils
	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify):
Minor Other Grain Types	
	Phosphate (bones, teeth, etc)
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Other carbonate allochems	
	Peloid
	Intraclast

T/R/P/C/A/D/M	Composition
Minor Mineral Grain Types	
	Olivine
R	Pyroxene
	Amphibole
	Micas
	Chlorite
T	Zircon
	Apatite
	Opaque Grain
	Glaucanite
	Opaque Grain
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 19.3.78

Expedition: 375 Observer: Ru

Site: 9518 Hole: E Core: 2 Sect.: 3 Interval: 24

Sediment Name: Ash/tuff

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
								30	60	

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
	Quartz
P	Feldspars
	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
P	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
M	Transparent glass
K	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
Authigenic components	
	Pyrite
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
R	Nannofossils
	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Minor Other Grain Types	
	Phosphate (bones, teeth, etc)
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Other carbonate allochems	
	Peloid
	Intraclast

T/R/P/C/A/D/M	Composition
Minor Mineral Grain Types	
	Olivine
R	Pyroxene
I	Amphibole
R	Micas
	Chlorite
T	Zircon
	Apatite
	Opaque Grain
	Glaucanite
	Opaque Grain
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 19.3.98

Expedition: 375 Observer: Ka

Site: 1518 Hole: E Core: 2 Sect.: 3 Interval: 96

Sediment Name: Ash / tuff

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

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
P	Quartz
C	Feldspars
	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
P	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
M	Transparent glass
	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
Authigenic components	
R	Pyrite
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
P	Nannofossils
	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Minor Other Grain Types	
	Phosphate (bones, teeth, etc)
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Other carbonate allochems	
	Peloid
	Intraclast

T/R/P/C/A/D/M	Composition
Minor Mineral Grain Types	
	Olivine
	Pyroxene
P	Amphibole
P	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glaucinite
	Opaque Grain
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/15/18

Expedition: 375

Observer: HR/OLIV/ke

Site: U1518 Hole: E Core: 2H Sect.: 3A Interval: 108 cm

Sediment Name: sandy silt with volcanic

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
✓				✓				25	50	25

Select one and check.

Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: coral calcareous (R)

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 11.3.18

Expedition: 375

Observer: 11g

Site: 1518 Hole: F Core: 2 Sect.: 4

Interval: 29

Sediment Name: Ash tuff

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

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
<u>T</u>	Quartz
<u>P</u>	Feldspars
	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
<u>R</u>	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
<u>M</u>	Transparent glass
	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
Authigenic components	
	Pyrite
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Minor Other Grain Types	
	Phosphate (bones, teeth, etc)
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Other carbonate allochems	
	Peloid
	Intraclast

T/R/P/C/A/D/M	Composition
Minor Mineral Grain Types	
	Olivine
	Pyroxene
<u>R</u>	Amphibole
<u>R</u>	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glaucanite
	Opaque Grain
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 19.3.12

Expedition: 375 Observer: 124

Site: 1518 Hole: E Core: 2 Sect.: 6 Interval: 110

Sediment Name: Ash / Tuff

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

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
	Quartz
<u>P</u>	Feldspars
	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
<u>T</u>	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
<u>M</u>	Transparent glass
	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
Authigenic components	
	Pyrite
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Minor Other Grain Types	
	Phosphate (bones, teeth, etc)
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Other carbonate allochems	
	Peloid
	Intraclast

T/R/P/C/A/D/M	Composition
Minor Mineral Grain Types	
	Olivine
	Pyroxene
	Amphibole
	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glaucanite
	Opaque Grain
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/15/18

Expedition: 375

Observer: HSR / OLIV / K2

Site: 41518 Hole: E Core: 2H Sect.: 7A Interval: 59 cm

Sediment Name: Sandy siltstone with volcanics

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
✓								90	40	20

Select one and check. Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
C	Quartz
C	Feldspars
C	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
P	Mudstone
P	Siltstone/sandstone
	Limestone
P	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
Vitric fragments	
C	Clear glass
	Colored glass
	Pumice
Volcanic lithics	
C	Felsitic
	Microlitic
	Lathwork
	Altered volcanic (palagonite)

T/R/P/C/A/D/M	Composition
Pelagic Grains	
P	Calcareous
	Nannofossils
	Foraminifers
Siliceous	
	Diatom
	Radiolarian
R	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)

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: Zr (rounded); Hornblende

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 19.3.18

Expedition: 375 Observer: Pm

Site: 1518 Hole: F Core: 3 Sect.: 3 Interval: 76

Sediment Name: Asn Huff

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

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
	Quartz
	Feldspars
	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
<u>C</u>	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
<u>M</u>	Transparent glass
	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
Authigenic components	
	Pyrite
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify):
Minor Other Grain Types	
	Phosphate (bones, teeth, etc)
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Other carbonate allochems	
	Peloid
	Intraclast

T/R/P/C/A/D/M	Composition
Minor Mineral Grain Types	
	Olivine
	Pyroxene
<u>R</u>	Amphibole
	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glaucanite
	Opaque Grain
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 19.3.18

Expedition: 375

Observer: VRe

Site: 1518 Hole: E Core: 3 Sect.: 1

Interval: 94

Sediment Name: Ash/Huff

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

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
<u>R</u>	Quartz
<u>C</u>	Feldspars
	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
<u>R</u>	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
<u>M</u>	Transparent glass
<u>T</u>	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
Authigenic components	
<u>R</u>	Pyrite
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Minor Other Grain Types	
	Phosphate (bones, teeth, etc)
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Other carbonate allochems	
	Peloid
	Intraclast

T/R/P/C/A/D/M	Composition
Minor Mineral Grain Types	
	Olivine
<u>R</u>	Pyroxene
<u>P</u>	Amphibole
	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glaucanite
	Opaque Grain
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/15/18

Expedition: 375

Observer: CHOU / Pu

Site: 1518 Hole: E Core: 34 Sect.: 1A

Interval: 130 cm

Sediment Name: Fulcrum silty sand clay with foraminifera and mollusk shells

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
<u>V</u>				<u>V</u>				<u>60</u>	<u>30</u>	<u>10</u>

Select one and check.

Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: authentic zircon

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/15/18

Expedition: 375

Observer: OC/KC

Site: 1518 Hole: E Core: 34 Sect.: 2A

Interval: 91

Sediment Name: clayey silt with nanofossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
<u>V</u>						<u>V</u>		<u>2</u>	<u>30</u>	<u>68</u>

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition	T/R/P/C/A/D/M	Composition	T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types	
<u>P</u>	Quartz		Calcareous		Dense minerals ¹
<u>P</u>	Feldspars	<u>A</u>	Nannofossils		Micas (biotite, musc, chl) ¹
<u>D</u>	Clay minerals		Foraminifers	<u>B</u>	Glaucconite
			Siliceous		Phosphate (bones, teeth, etc)
	Lithic Grains		Diatom		Opaque Grain
	Sedimentary Lithics		Radiolarian		Marine organic matter
	Chert		Silicoflagellate		Terrestrial organic matter
	Mudstone	<u>P</u>	Sponge Spicule		Other (specify):
	Siltstone/sandstone				
	Limestone	<u>B</u>	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				
	Microlitic		Silt or sand-size carbonate allochem fragment (unspecified)		
	Lathwork				
	Altered volcanic (palagonite)				
			Carbonate mud (apart from nannos)		

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 19-5

Expedition: 375

Observer: 104

Site: 1518 Hole: E Core: 3 Sect.: 4

Interval: 83

Sediment Name: Ashuff

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

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
	Quartz
	Feldspars
	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
<u>R</u>	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
<u>M</u>	Transparent glass
	Colored glass
<u>R</u>	Volcanic lithics
	Altered volcanic(e.g. palagonite)
Authigenic components	
	Pyrite
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
Calcareous	
	Nannofossils
	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Minor Other Grain Types	
	Phosphate (bones, teeth, etc)
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Other carbonate allochems	
	Peloid
	Intraclast

T/R/P/C/A/D/M	Composition
Minor Mineral Grain Types	
	Olivine
	Pyroxene
<u>R</u>	Amphibole
<u>C</u>	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glaucinite
	Opaque Grain
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/15/18

Expedition: 375

Observer: OLIV

Site: 1518 Hole: E Core: 34 Sect.: SA

Interval: 37

Sediment Name: Silty sand with volcaniclastic

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

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
Z	Quartz
C	Feldspars
	Clay minerals
P	Lithic Grains
Sedimentary Lithics	
	Chert
P	Mudstone
	Siltstone/sandstone
	Limestone
T	Metamorphic lithic
F	Plutonic lithic
Volcaniclastic Grains	
Vitric fragments	
C	Clear glass
	Colored glass
	Pumice
Volcanic lithics	
C	Felsitic
	Microlitic
	Lathwork
	Altered volcanic (palagonite)

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
P	Nannofossils
P	Foraminifers
Siliceous	
	Diatom
	Radiolarian
Z	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)

T/R/P/C/A/D/M	Composition
Minor Grain Types	
P	Dense minerals ¹
	Micas (biotite, musc, chl) ¹
P	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

Abundances like in 375 Methods-C-Table 2

Remarks: hornblenda ; coral calcareous fragment (+)

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 19.3.18

Expedition: 375 Observer: Ben

Site: 1598 Hole: E Core: 3 Sect.: 6 Interval: 75

Sediment Name: ash/tuff

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

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
<u>P</u>	Quartz
<u>C</u>	Feldspars
	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
<u>R</u>	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
<u>M</u>	Transparent glass
	Colored glass
<u>T</u>	Volcanic lithics
	Altered volcanic(e.g. palagonite)
Authigenic components	
<u>R</u>	Pyrite
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Minor Other Grain Types	
	Phosphate (bones, teeth, etc)
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Other carbonate allochems	
	Peloid
	Intraclast

T/R/P/C/A/D/M	Composition
Minor Mineral Grain Types	
	Olivine
<u>P</u>	Pyroxene
<u>R</u>	Amphibole
<u>P</u>	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glaucinite
	Opaque Grain
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/15/18

Expedition: 375

Observer: Rabinowitz/Na

Site: #1518 Hole: E Core: 3H Sect.: 7A Interval: 16 cm

Sediment Name: nannofossil-rich Sand-silty clay volcanic Silty sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				30	40	30
Select one and check.				Select one and check.				<u>50</u>	<u>30</u>	<u>10</u>

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
<u>PA</u>	Quartz -
<u>C</u>	Feldspars
<u>P</u>	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
<u>P</u>	Siltstone/sandstone
	Limestone
<u>T</u>	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
Vitric fragments	
<u>C</u>	Clear glass
	Colored glass
	Pumice
Volcanic lithics	
<u>A</u>	Felsitic
	Microlitic
	Lathwork
	Altered volcanic (palagonite)

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
<u>C</u>	Nannofossils
<u>T</u>	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
<u>P</u>	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)

T/R/P/C/A/D/M	Composition
Minor Grain Types	
<u>P</u>	Dense minerals ¹
	Micas (biotite, musc, chl) ¹
<u>T</u>	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
<u>T</u>	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible Abundances like in 375 Methods-C-Table 2

Remarks: Hornblende, olivine, etc (euhedric and fragments rounded)
Apatite

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 19.3.18

Expedition: 375 Observer: 124

Site: 1518 Hole: E Core: 3 Sect.: 7 Interval: 90

Sediment Name: Ash Tuff

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

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
	Quartz
<u>P</u>	Feldspars
	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
<u>R</u>	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
<u>M</u>	Transparent glass
	Colored glass
<u>R</u>	Volcanic lithics
	Altered volcanic(e.g. palagonite)
Authigenic components	
	Pyrite
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Minor Other Grain Types	
	Phosphate (bones, teeth, etc)
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Other carbonate allochems	
	Peloid
	Intraclast

T/R/P/C/A/D/M	Composition
Minor Mineral Grain Types	
	Olivine
	Pyroxene
<u>R</u>	Amphibole
<u>R</u>	Micas
	Chlorite
<u>T</u>	Zircon
	Apatite
	Opaque Grain
	Glauconite
	Opaque Grain
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/15/18

Expedition: 375

Observer: Rabinowitz

Site: U1518

Hole: E

Core: 4H

Sect.: 3A

Interval: 96

Sediment Name: nannofossil-rich silty clay

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

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition	T/R/P/C/A/D/M	Composition	T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types	
C	Quartz		Calcareous	I	Dense minerals ¹
P	Feldspars	AC	Nannofossils	I	Micas (biotite, musc, chl) ¹
A	Clay minerals	P	Foraminifers	I	Glaucanite
			Siliceous		Phosphate (bones, teeth, etc)
	Lithic Grains		Diatom		Opaque Grain
	Sedimentary Lithics		Radiolarian		Marine organic matter
	Chert		Silicoflagellate		Terrestrial organic matter
	Mudstone	R	Sponge Spicule		Other (specify):
P	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)
					Calcite
	Volcaniclastic Grains				Dolomite
	Vitric fragments		Other carbonate allochems		Zeolites
R	Clear glass		Peloid	R	Fe/Mn oxide
	Colored glass		Intraclast		Other (specify):
	Pumice				
	Volcanic lithics		Silt or sand-size carbonate allochem fragment (unspecified)		
P	Felsitic				
	Microlitic		Carbonate mud (apart from nannos)		
	Lathwork				
	Altered volcanic (palagonite)				

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/15/18

Expedition: 375

Observer: Rabinowitz

Site: U1518 Hole: E Core: 4H Sect.: 3A Interval: 130cm

Sediment Name: ~~Nannofossil rich~~ Clayey silt sandg silt
volcanoclastic

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
✓				✓		✓		30	60	20
Select one and check.				Select one and check.				30	60	20

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
D	Quartz
	Feldspars
P	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
P	Mudstone
	Siltstone/sandstone
	Limestone
I	Metamorphic lithic
T	Plutonic lithic
Volcaniclastic Grains	
Vitric fragments	
C	Clear glass
	Colored glass
	Pumice
Volcanic lithics	
C	Felsitic
	Microlitic
	Lathwork
	Altered volcanic (palagonite)

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
P	Nannofossils
T	Foraminifers
	Siliceous
	Diatom
	Radiolarian
T	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)

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: Zr (R)

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 7.3.18

Expedition: -375 Observer: lda

Site: 1518 Hole: E Core: S Sect.: 1 Interval: 6

Sediment Name: ash/tuff

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

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
R	Quartz
D	Feldspars
	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
M	Transparent glass
R	Colored glass
P	Volcanic lithics
	Altered volcanic(e.g. palagonite)
Authigenic components	
P	Pyrite
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
C	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Minor Other Grain Types	
	Phosphate (bones, teeth, etc)
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Other carbonate allochems	
	Peloid
	Intraclast

T/R/P/C/A/D/M	Composition
Minor Mineral Grain Types	
	Olivine
R	Pyroxene
	Amphibole
	Micas
	Chlorite
T	Zircon
	Apatite
	Opaque Grain
	Glaucinite
	Opaque Grain
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 19.3.78

Expedition: 375

Observer: Sea

Site: 1518 Hole: E Core: 5 Sect.: 1

Interval: 40

Sediment Name: ash/tuff

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
								80	10	10

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
	Quartz
<u>C</u>	Feldspars
	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
<u>M</u>	Transparent glass
	Colored glass
	Volcanic lithics
	Altered volcanic (e.g. palagonite)
Authigenic components	
	Pyrite
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Minor Other Grain Types	
	Phosphate (bones, teeth, etc)
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Other carbonate allochems	
	Peloid
	Intraclast

T/R/P/C/A/D/M	Composition
Minor Mineral Grain Types	
	Olivine
<u>R</u>	Pyroxene
<u>C</u>	Amphibole
<u>P</u>	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glaucanite
	Opaque Grain
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 1 P. 3. 18

Expedition: 375

Observer: Ru

Site: 7518 Hole: E Core: 5 Sect.: 7 Interval: 52

Sediment Name: Ash / tuff

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
								80	20	1

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
<u>P</u>	Quartz
<u>C</u>	Feldspars
	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
<u>M</u>	Transparent glass
	Colored glass
	Volcanic lithics
	Altered volcanic (e.g. palagonite)
Authigenic components	
	Pyrite
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
<u>P</u>	Nannofossils
	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify):
Minor Other Grain Types	
	Phosphate (bones, teeth, etc)
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Other carbonate allochems	
	Peloid
	Intraclast

T/R/P/C/A/D/M	Composition
Minor Mineral Grain Types	
	Olivine
<u>T</u>	Pyroxene
<u>P</u>	Amphibole
<u>P</u>	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glauconite
	Opaque Grain
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 18.3.18

Expedition: 375

Observer: PCU

Site: 7598 Hole: E Core: 5 Sect.: 2

Interval: 67

Sediment Name: Ash Huff

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
								30	60	10

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition	T/R/P/C/A/D/M	Composition	T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types		Pelagic Grains		Minor Mineral Grain Types	
R	Quartz		Calcareous		Olivine
P	Feldspars		Nannofossils		Pyroxene
	Clay minerals		Foraminifers	R	Amphibole
			Siliceous	P	Micas
	Lithic Grains		Diatom		Chlorite
	Sedimentary Lithics		Radiolarian		Zircon
	Chert		Silicoflagellate		Apatite
	Mudstone		Sponge Spicule		Opaque Grain
	Siltstone/sandstone		Other bioclasts		Glaucinite
	Limestone		Mollusk		Opaque Grain
	Metamorphic lithic		Echinoderm		Other (specify):
	Plutonic lithic		Benthic foraminifer		
			Other bioclast (specify)		
	Volcaniclastic Grains				
M	Transparent glass		Minor Other Grain Types		
	Colored glass		Phosphate (bones, teeth, etc)		
	Volcanic lithics		Marine organic matter		
	Altered volcanic(e.g. palagonite)		Terrestrial organic matter		
			Other (specify):		
	Authigenic components		Other carbonate allochems		
	Pyrite		Peloid		
	Calcite		Intraclast		
	Dolomite				
	Zeolites				
	Fe/Mn oxide				
	Other (specify):				

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/16/18

Expedition: 375

Observer: Noda/Ken

Site: U1518 Hole: E Core: 5H Sect.: 3A

Interval: 45

Sediment Name: ~~nannofossil-rich~~ clay with kenozooids

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
X								0	15	85

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition	T/R/P/C/A/D/M	Composition	T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types
R	Quartz		Calcareous		Dense minerals ¹
R	Feldspars	A	Nannofossils		Micas (biotite, musc, chl) ¹
C	Clay minerals	R	Foraminifers		Glauconite
			Siliceous		Phosphate (bones, teeth, etc)
	Lithic Grains	R	Diatom		Opaque Grain
	Sedimentary Lithics		Radiolarian		Marine organic matter
	Chert		Silicoflagellate		Terrestrial organic matter
P	Mudstone	P	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			R	Calcite
	Vitric fragments				Dolomite
R	Clear glass		Other carbonate allochems		Zeolites
	Colored glass		Peloid	R	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

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 21.3.18

Expedition: 375

Observer: 124

Site: 1518 Hole: E

Core: 614 Sect.: 2

Interval: 96

Sediment Name: clayey silt

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>

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
<u>C</u>	Quartz
<u>S</u>	Feldspars
<u>P</u>	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
<u>R</u>	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
<u>A</u>	Transparent glass
	Colored glass
<u>P</u>	Volcanic lithics
	Altered volcanic (e.g. palagonite)
Authigenic components	
	Pyrite
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
<u>R</u>	Nannofossils
<u>R</u>	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
<u>R</u>	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify):
Minor Other Grain Types	
	Phosphate (bones, teeth, etc)
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Other carbonate allochems	
	Peloid
	Intraclast

T/R/P/C/A/D/M	Composition
Minor Mineral Grain Types	
	Olivine
<u>R</u>	Pyroxene
<u>T</u>	Amphibole
	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glauconite
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/16/18

Expedition: 375

Observer: Noda

Site: 1518 Hole: E Core: 7H Sect.: 2A

Interval: 72

Sediment Name: volcaniclastic sandy silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
X				X				05	65	70

Select one and check.

Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: Zircon ; coral

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 21.3

Expedition: 375 Observer: Ry

Site: R8-18 Hole: E Core: 7 Sect.: 3 Interval: 15

Sediment Name: tuffaceous silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
								20	80	10

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
<u>C</u>	Quartz
<u>C</u>	Feldspars
	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
<u>P</u>	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
<u>A</u>	Transparent glass
	Colored glass
<u>P</u>	Volcanic lithics
	Altered volcanic (e.g. palagonite)
Authigenic components	
<u>P</u>	Pyrite
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
<u>P</u>	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Minor Other Grain Types	
	Phosphate (bones, teeth, etc)
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Other carbonate allochems	
	Peloid
	Intraclast

T/R/P/C/A/D/M	Composition
Minor Mineral Grain Types	
	Olivine
<u>T</u>	Pyroxene
	Amphibole
	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glauconite
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/16/18

Expedition: 375

Observer: Noda/K

Site: U1518 Hole: E Core: 7H Sect.: 3A

Interval: 83 cm

Sediment Name: silty clay with nanofossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
X								0	30	70

Select one and check.

Select one and check.

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

Handwritten note: 2v, 1u, 1n

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/16/18

Expedition: 375

Observer: Noda

Site: 1518 Hole: E Core: 9H Sect.: 2A

Interval: 22 cm

Sediment Name: in silty clay with nanofossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
<u>X</u>				<u>X</u>				<u>0</u>	<u>35</u>	<u>65</u>

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
<u>P</u>	Quartz
<u>C</u>	Feldspars
	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
<u>R</u>	Siltstone/sandstone
	Limestone
	Metamorphic lithic
<u>R</u>	Plutonic lithic
Volcaniclastic Grains	
Vitric fragments	
<u>C</u>	Clear glass
<u>T</u>	Colored glass
	Pumice
<u>R</u>	Volcanic lithics
	Felsitic
	Microlitic
	Lathwork
<u>T</u>	Altered volcanic (palagonite)

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
<u>C</u>	Nannofossils
<u>R</u>	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
<u>P</u>	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
<u>R</u>	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nannos)

T/R/P/C/A/D/M	Composition
Minor Grain Types	
<u>R</u>	Dense minerals ¹
<u>R</u>	Micas (biotite, musc, chl) ¹
<u>T</u>	Glauconite
	Phosphate (bones, teeth, etc)
<u>T</u>	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Authigenic components	
<u>T</u>	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
<u>R</u>	Calcite
	Dolomite
	Zeolites
<u>T</u>	Fe/Mn oxide
	Other (specify):

31 Aug

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/16/18

Expedition: 375

Observer: Noda

Site: 1518 Hole: E Core: 9H Sect.: 2A

Interval: 107

Sediment Name: sandy silt
volcaniclastic

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
/				/				30	60	10

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
P	Quartz
C	Feldspars
	Clay minerals
Lithic Grains	
R	Sedimentary Lithics
	Chert
P	Mudstone
	Siltstone/sandstone
	Limestone
F	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
Vitric fragments	
C	Clear glass
	Colored glass
	Pumice
C	Volcanic lithics
	Felsitic
	Microlitic
	Lathwork
	Altered volcanic (palagonite)

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
C	Nannofossils
P	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
P	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)

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

Auth, P, T, R

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: Hornblende, Fe (fragments)

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 2/3

Expedition: 375

Observer: AK

Site: 1518 Hole: E Core: 9 Sect.: 3

Interval: D

Sediment Name: tuffaceous 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
				<u>20</u>	<u>50</u>	<u>30</u>

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
<u>P</u>	Quartz
<u>P</u>	Feldspars
<u>C</u>	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
<u>P</u>	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
<u>A</u>	Transparent glass
	Colored glass
<u>C</u>	Volcanic lithics
	Altered volcanic (e.g. palagonite)
Authigenic components	
<u>P</u>	Pyrite
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
<u>C</u>	Nannofossils
<u>T</u>	Foraminifers
Siliceous	
	Diatom
	Radiolarian
<u>T</u>	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify):
Minor Other Grain Types	
	Phosphate (bones, teeth, etc)
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Other carbonate allochems	
	Peloid
	Intraclast

T/R/P/C/A/D/M	Composition
Minor Mineral Grain Types	
	Olivine
<u>R</u>	Pyroxene
	Amphibole
	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glauconite
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 11-3

Expedition: 375 Observer: Ru

Site: 1518 Hole: E Core: 9 Sect.: 3 Interval: 22

Sediment Name: Buff

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
								70	20	10

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
P	Quartz
C	Feldspars
P	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
P	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
D	Transparent glass
	Colored glass
P	Volcanic lithics
	Altered volcanic (e.g. palagonite)
Authigenic components	
R	Pyrite
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
P	Nannofossils
T	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
T	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Minor Other Grain Types	
	Phosphate (bones, teeth, etc)
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Other carbonate allochems	
	Peloid
	Intraclast

T/R/P/C/A/D/M	Composition
Minor Mineral Grain Types	
	Olivine
T	Pyroxene
	Amphibole
	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glauconite
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/16/18

Expedition: 375

Observer: OLI *llm*

Site: 1518 Hole: E Core: 94 Sect.: 3A

Interval: 65

Sediment Name: Silty clay with Nannofossils ~~with~~

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
V								0	15	85

Select one and check.

Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: Minor macro silty regions on slide

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/16/18

Expedition: 375

Observer: Noda

Site: 1518 Hole: E Core: 9H Sect.: CC-A

Interval: 8 cm

Sediment Name: Volcaniclastic sandy silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
X				X	Δ			20	70	10

Select one and check.

Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: Hornblende, Opx, mica

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/16/18

Expedition: 375

Observer: Noda / M

Site: 1518 Hole: E Core: 10H Sect.: 1A

Interval: 41cm

Sediment Name: very fine silty clay with nanofossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
<u>X</u>								<u>10</u>	<u>30</u>	<u>60</u>

Select one and check.

Select one and check.

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

21, P, X

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: Sandy silt in parts of the slide

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/16/18

Expedition: 375

Observer: Noda

Site: 1518 Hole: E Core: 10 H Sect.: 1A

Interval: 52 cm

Sediment Name: Ashtuff

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
								80	75	5

Select one and check.

Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: unparts of the slide will be in size-sensitivity region

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/16/18

Expedition: 375

Observer: Noda

Site: UIS18 Hole: E Core: 11F Sect.: 1A

Interval: 19cm

Sediment Name: silty sand with authigenic calcite
minor lithology

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

Select one and check. Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
C	Quartz
A	Feldspars
P	Clay minerals
C	Lithic Grains
Sedimentary Lithics	
T	Chert
	Mudstone
C	Siltstone/sandstone
	Limestone
P	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Vitric fragments
P	Clear glass
T	Colored glass
	Pumice
Volcanic lithics	
C	Felsitic
	Microlitic
	Lathwork
	Altered volcanic(palagonite)

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
P	Nannofossils
P	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
R	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)

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

¹ List under remarks if possible Abundances like in 375 Methods-C-Table 2

Remarks: Hypersthene, Hornblende

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/10/18

Expedition: 375

Observer: Rabinowitz/K

Site: U1518 Hole: E Core: 11F Sect.: 1A

Interval: 118 cm

Sediment Name: nanofossil-rich silt/clay

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

Select one and check.

Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: Hornblende

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/16/18

Expedition: 375

Observer: OLI

Site: 1518 - Hole: E Core: 12F Sect.: 3A

Interval: 25

Sediment Name: *Silty fine sand nannofossils rich*
volcaniclastic

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
V								60	30	10

Select one and check.

Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: Hornblende, clinochlore, Fe, Ap

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/16/18

Expedition: 375

Observer: DLI

Site: 1518 Hole: E Core: 12F Sect.: 2A Interval: 54

Sediment Name: silty clay with nan.

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
V								1	20	79

Select one and check.

Select one and check.

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

3r, 4r, 5r

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: Zircon ; nannofossil content of the sample to "with nannofossils"

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/16/18

Expedition: 375

Observer: OLI/km

Site: 1518 Hole: E Core: 13F Sect.: 4A

Interval: 28

Sediment Name: clayey silt with nannofossils rich clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
V								2	40	58

Select one and check.

Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/16/18

Expedition: 375

Observer: Rabinowitz

Site: W518 Hole: E Core: 14F Sect.: 2A

Interval: 90 cm

Sediment Name: clayey silt with nannofossils
minor lithology

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

Select one and check. Select one and check.

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

¹ List under remarks if possible Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/10/18

Expedition: 375

Observer: Rabinowitz/K

Site: U1518 Hole: E Core: 14F Sect.: 2A Interval: 97 cm

Sediment Name: Non-olivine-rich silty clay with nanofossil major component

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

Select one and check.

Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: star shaped fossil

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/10/18

Expedition: 375

Observer: Rabinowitz / K

Site: U1518 Hole: E Core: 15F Sect.: 1A Interval: 98cm

Sediment Name: nanofossiliferous silty clay with nanofossils
major lithology

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
<input checked="" type="checkbox"/>									30	70

Select one and check.

Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/16/18

Expedition: 375

Observer: Rabinowitz/ku

Site: U1518 Hole: E Core: 110 Sect.: 1A Interval: 105cm

Sediment Name: 110m silty clay with nanofossils

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

Select one and check. Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 12/03/18

Expedition: 375 Observer: OK/PT

Site: JK18 Hole: E Core: 19 Sect.: 1A Interval: 79

Sediment Name: SILT

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

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition	T/R/P/C/A/D/M	Composition	T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types	
C	Quartz	C	Calcareous	P	Dense minerals ¹
C	Feldspars	T	Nannofossils	C	Micas (biotite, musc, chl) ¹
P	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
P	Mudstone	T	Sponge Spicule		Other (specify):
	Siltstone/sandstone				
	Limestone		Other bioclasts		
P	Metamorphic lithic		Mollusk		Authigenic components
	Plutonic lithic		Echinoderm		Pyrite (framboids)
			Benthic foraminifer		Pyrite (euhedra)
			Other bioclast (specify)		Pyrite (grain coating)
	Volcaniclastic Grains			R	Calcite
	Vitric fragments		Other carbonate allochems		Dolomite
P	Clear glass		Peloid		Zeolites
	Colored glass		Intraclast		Fe/Mn oxide
	Pumice				Other (specify):
	Volcanic lithics		Silt or sand-size carbonate allochem fragment (unspecified)		
C	Felsitic				
	Microlitic		Carbonate mud (apart from nannos)		
	Lathwork				
R	Altered volcanic (palagonite)				

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: Fe

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 17/03/18

Expedition: 375

Observer: SR/PM

Site: J1518 Hole: E Core: 19 Sect.: 1A

Interval: 87

Sediment Name: SILTY CLAY with forams

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

Select one and check.

Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 17/03/2018

Expedition: 375

Observer: HASHI/K

Site: 1512 Hole: E Core: 23F Sect.: 2

Interval: 15

Sediment Name: Volcaniclastic Silty sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
✓								60	30	70

Select one and check.

Select one and check.

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

Px, Amph.

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: Fe euhedric fragment

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

good for pics

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 17/03/2018

Expedition: 375

Observer: ~~SM~~ FIM /lu

Site: V1518 Hole: E Core: 23 Sect.: 2 Interval: 82

Sediment Name: VOLCANICLASTIC SILT (COARSE)

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

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
P	Quartz
C	Feldspars
	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
A	Mudstone
	Siltstone/sandstone
	Limestone
R	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
Vitric fragments	
R	Clear glass
	Colored glass
	Pumice
Volcanic lithics	
	Felsitic
A	Microlitic
	Lathwork
	Altered volcanic (palagonite)

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
P	Nannofossils
R	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
T	Sponge Spicule
Other bioclasts	
R	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)

T/R/P/C/A/D/M	Composition
Minor Grain Types	
G	Dense minerals ¹
P	Micas (biotite, musc, chl) ¹
P	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Authigenic components	
P	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
C	Calcite
	Dolomite
	Zeolites
R	Fe/Mn oxide
	Other (specify):

Am, Px, Zv

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/17/18

Expedition: 375

Observer: Noda J

Site: 1518 Hole: E Core: 24F Sect.: 3A

Interval: 76 cm

Sediment Name: Volcanoclastic
Sandy silt. with nannofossil
nanofossil-rich

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
X								40	60	10

Select one and check. Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: Hornblende, Zircon, Opx

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/17/18

Expedition: 375

Observer: Noda

Site: 1518 Hole: E Core: 24F Sect.: CC-A Interval: 11 cm

Sediment Name: Volcaniclastic clayey silt with nanofossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
A								10	60	30

Select one and check.

Select one and check.

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

Rx/Amr.

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: Hornblende

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/17/18

Expedition: 375

Observer: Noda/1/6

Site: 1518 Hole: E Core: 25F Sect.: 2A

Interval: 32 cm

Sediment Name: Volcanoclastic sandy silt.

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

Select one and check.

Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: Rounded - subrounded grains
~~Biotite, Zircon (euhedral), Hornblende,~~

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/17/18

Expedition: 375 Observer: DLI

Site: 1518 Hole: E Core: 26X Sect.: 3A Interval: 114

Sediment Name: volcaniclastic silt

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

Select one and check. Select one and check.

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

Amph, B, Zr

¹ List under remarks if possible Abundances like in 375 Methods-C-Table 2

Remarks: euhedric zircon, chlorite

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/17/18

Expedition: 375

Observer: Noda/Un

Site: 1518 Hole: E Core: 26X Sect.: 4A

Interval: 64 cm

Sediment Name: silty clay with nanofossils

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

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
P	Quartz
P	Feldspars
D	Clay minerals
Lithic Grains	
R	Sedimentary Lithics
	Chert
	Mudstone
R	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Vitric fragments
P	Clear glass
T	Colored glass
	Pumice
Volcanic lithics	
R	Felsitic
	Microlitic
	Lathwork
	Altered volcanic (palagonite)

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
A	Nannofossils
P	Foraminifers
Siliceous	
R	Diatom
	Radiolarian
	Silicoflagellate
P	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)

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/17/18

Expedition: 375

Observer: Noda /m

Site: 1518 Hole: E Core: 26x Sect.: 5A

Interval: 48cm

Sediment Name: volcaniclastic silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
								0	80	20

Select one and check.

Select one and check.

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

PLI, etc

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/17/18

Expedition: 375

Observer: Noda/lu

Site: 1518 Hole: E Core: 26X Sect.: 6A

Interval: 63cm

Sediment Name: Volcaniclastic (clayey) s.s.

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
X								10	60	30

Select one and check.

Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: Some more clayey area on slide with less volc.

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/17/18

Expedition: 375

Observer: OLIV

Site: 1518 Hole: E Core: 26X Sect.: 6A Interval: 67

Sediment Name: volcaniclastic Sandy silt

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

Select one and check.

Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/17/78

Expedition: 375

Observer: OLI ML

Site: 1518 Hole: E Core: 2AX Sect.: 3A Interval: 81

Sediment Name: Silty clay

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

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
A	Quartz
A	Feldspars
	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
C	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Vitric fragments
P	Clear glass
	Colored glass
	Pumice
Volcanic lithics	
P	Felsitic
	Microlitic
	Lathwork
	Altered volcanic (palagonite)

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
P	Nannofossils
R	Foraminifers
Siliceous	
	Diatom
P	Radiolarian
	Silicoflagellate
P	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)

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

ax

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

nice for Hagenm pics

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/17/18

Expedition: 375

Observer: DLI/SK

Site: 1518 Hole: E Core: 27X Sect.: 5A

Interval: 55

Sediment Name: volcanic sandy silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
V								30	60	10

Select one and check.

Select one and check.

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

OAX, Ind 1

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: zircon many OAX

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/17/18

Expedition: 375 Observer: OLI

Site: 1518 Hole: E Core: 27X Sect.: 4A Interval: 80

Sediment Name: silty marl silty clay with nanofossils

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

Select one and check.

Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: hornblende, recrystallized laminae?

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/17/18

Expedition: 375

Observer: Rabinowitz / h

Site: U1518 Hole: E Core: 28X Sect.: 2A

Interval: 81

Sediment Name: *Alconidolite sandy silt*
minor

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
<input checked="" type="checkbox"/>								40	50	10

Select one and check.

Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: *Chlorite, hornblende, parts of slide are mostly clay and OAX 1 nannos volcaniclastics*

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/17/18

Expedition: 375

Observer: Rabinowitz K

Site: U1518 Hole: E Core: 28X Sect.: 2A Interval: 91cm

Sediment Name: major silty clay with nanofossils

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

Select one and check. Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
C	Quartz
C	Feldspars
C	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
P	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Vitric fragments
P	Clear glass
	Colored glass
	Pumice
Volcanic lithics	
P	Felsitic
	Microlite
T	Lathwork
	Altered volcanic (palagonite)

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
P	Nannofossils
P	Foraminifers
	Siliceous
T	Diatom
	Radiolarian
	Silicoflagellate
P	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)

T/R/P/C/A/D/M	Composition
Minor Grain Types	
R	Dense minerals ¹
T	Micas (biotite, musc, chl) ¹
	Glaucanite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Authigenic components	
P	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
P	Calcite
	Dolomite
	Zeolites
R	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible Abundances like in 375 Methods-C-Table 2

Remarks: Chlorite

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/17/18

Expedition: 375

Observer: Noda / OLI / K

Site: U1518 Hole: E Core: 28X Sect.: 5A Interval: 45 cm

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
X								1	30	69

Select one and check. Select one and check.

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

¹ List under remarks if possible Abundances like in 375 Methods-C-Table 2

Remarks: magnetite, Hornblende
Pyrite (silt-clay size)

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/18/18
 Observer: OLI/h

Expedition: 375
 Site: 1518 Hole: E Core: 28X Sect.: 7A Interval: 47

Sediment Name: Volcanic clayey silt

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

Select one and check.

Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: zircon, apatite, Amph, Px

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

375 Methods-C-F7

good for carbonate

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/18/18

Expedition: 375

Observer: OLIV

Site: 1518

Hole: E

Core: 29X

Sect.: 1A

Interval: 127

Sediment Name:

volcaniclastic rich silty sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
<u>V</u>								<u>60</u>	<u>30</u>	<u>10</u>

Select one and check.

Select one and check.

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

Auth. py. etc

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 1/18/18
 Observer: OLIVK

Expedition: 375

Site: 1518 Hole: E Core: 29X with Sect.: 6X Interval: 6

Sediment Name: Silty clay with nannofossils ~~with~~

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

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
E	Quartz
E	Feldspars
	Clay minerals
Lithic Grains	
Sedimentary Lithics	
T	Chert
	Mudstone
C	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
Vitric fragments	
P	Clear glass
	Colored glass
	Pumice
Volcanic lithics	
C	Felsitic
	Microlitic
	Lathwork
	Altered volcanic (palagonite)

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
C	Nannofossils
B	Foraminifers
Siliceous	
	Diatom
B	Radiolarian
P	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)

T/R/P/C/A/D/M	Composition
Minor Grain Types	
	Dense minerals ¹
B	Micas (biotite, musc, chl) ¹
R	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Authigenic components	
C	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
R	Calcite
	Dolomite
	Zeolites
T	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: zircon

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

Nice^{for} MIL

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/18/18

Expedition: 375

Observer: OLI K

Site: 1518 Hole: E Core: 30X Sect.: 1A Interval: 40

Sediment Name: Volcaniclastic sandy silt with volcanoclastic

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

Select one and check. Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
C	Quartz
C	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
T	Chert
	Mudstone
C	Siltstone/sandstone
	Limestone
T	Melamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Vitric fragments
C	Clear glass
R	Colored glass
	Pumice
	Volcanic lithics
C	Felsitic
	Microitic
	Lathwork
R	Altered volcanic (palagonite)

T/R/P/C/A/D/M	Composition
	Pelagic Grains
	Calcareous
P	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
P	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)

T/R/P/C/A/D/M	Composition
	Minor Grain Types
P	Dense minerals ¹
P	Micas (biotite, musc, chl) ¹
R	Glaucinite
T	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
P	Calcite
T	Dolomite
	Zeolites
P	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible Abundances like in 375 Methods-C-Table 2

Remarks: zircon, hornblende, chlorite

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/18/18

Expedition: 375

Observer: OLIV/kn

Site: 1518 Hole: E Core: 31X Sect.: 2A Interval: 51

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
V								10	90	

Select one and check.

Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/18/18

Expedition: 375

Observer: OLIV/km

Site: 1518 Hole: E Core: 37X Sect.: 3A Interval: 14

Sediment Name: sandy silt with volcaniclastic

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
V								30	65	5

Select one and check. Select one and check.

T/R/P/C/A/D/M	Composition	T/R/P/C/A/D/M	Composition	T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types		Pelagic Grains		Minor Grain Types	
A	Quartz		Calcareous	P	Dense minerals ¹
A	Feldspars	P	Nannofossils	R	Micas (biotite, musc, chl) ¹
	Clay minerals	P	Foraminifers	R	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):
C	Siltstone/sandstone				
	Limestone		Other bioclasts		
	Metamorphic lithic		Mollusk	B	Authigenic components
	Plutonic lithic		Echinoderm		Pyrite (framboids)
			Benthic foraminifer		Pyrite (euhedra)
			Other bioclast (specify)		Pyrite (grain coating)
					Calcite
	Volcaniclastic Grains				Dolomite
	Vitric fragments		Other carbonate allochems		Zeolites
P	Clear glass		Peloid	P	Fe/Mn oxide
R	Colored glass		Intraclast		Other (specify):
	Pumice				
	Volcanic lithics				
C	Felsitic		Silt or sand-size carbonate allochem fragment (unspecified)		
	Microlitic				
	Lathwork		Carbonate mud (apart from nannos)		
	Altered volcanic (palagonite)				

¹ List under remarks if possible Abundances like in 375 Methods-C-Table 2
 Remarks: zircon / amorph, AX

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/18/18

Expedition: 375

Observer: OLI/K

Site: 1518 Hole: E Core: 32X Sect.: 1A Interval: 26

Sediment Name: Sandy silt. with volcanoclastic grains

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcanoclastic	Pelagic		Sand	Silt	Clay
<u>V</u>								<u>30</u>	<u>60</u>	<u>10</u>

Select one and check. Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
<u>C</u>	Quartz
<u>C</u>	Feldspars
	Clay minerals
	Lithic Grains
<u>P</u>	Sedimentary Lithics
	Chert
<u>U</u>	Mudstone
	Siltstone/sandstone
<u>F</u>	Limestone
<u>F</u>	Metamorphic lithic
	Plutonic lithic
	Volcanoclastic Grains
<u>P</u>	Vitric fragments
	Clear glass
	Colored glass
	Pumice
<u>C</u>	Volcanic lithics
	Felsitic
	Microlite
	Lathwork
	Altered volcanic (palagonite)

T/R/P/C/A/D/M	Composition
	Pelagic Grains
<u>P</u>	Calcareous
<u>P</u>	Nannofossils
<u>P</u>	Foraminifers
	Siliceous
	Diatom
	Radiolarian
<u>T</u>	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)

T/R/P/C/A/D/M	Composition
	Minor Grain Types
<u>P</u>	Dense minerals ¹
<u>P</u>	Micas (biotite, musc, chl) ¹
	Glaucanite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
<u>P</u>	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
<u>P</u>	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: hemblende, etc

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/18/18
 Observer: OLI/K

Expedition: 375
 Site: 1518 Hole: E Core: 32X Sect.: 2A Interval: 16

Sediment Name: Silty clay w/ nannofossils

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

Select one and check.

Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: hornblende, nX

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