

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/18/18

Expedition: 375

Observer: DLI/ku

Site: 1518

Hole: F

Core: AB

Sect.: A

Interval: 18

Sediment Name: Silty clay with microfossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
V								1	40	59

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	
	Chert
	Mudstone
C	Siltstone/sandstone
	Limestone
R	Metamorphic lithic
R	Plutonic lithic
Volcaniclastic Grains	
Vitric fragments	
C	Clear glass
	Colored glass
	Pumice
Volcanic lithics	
C	Felsitic
	Microlitic
	Lathwork
T	Altered volcanic (palagonite)

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
C	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)

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: Hornblende / same silty areas on the slide

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/18/18

Expedition: 375

Observer: OLI/lu

Site: 1518 Hole: F Core: 2B Sect.: 2A

Interval: 39

Sediment Name: silty clay with microfossils ~~etc~~

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

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
P	Feldspars	A	Nannofossils	T	Micas (biotite, musc, chl) ¹
	Clay minerals		Foraminifers		Glauconite
			Siliceous		Phosphate (bones, teeth, etc)
	Lithic Grains		Diatom		Opaque Grain
	Sedimentary Lithics	R	Radiolarian		Marine organic matter
T	Chert		Silicoflagellate		Terrestrial organic matter
P	Mudstone	P	Sponge Spicule		Other (specify):
	Siltstone/sandstone				
	Limestone		Other bioclasts		
T	Metamorphic lithic		Mollusk		Authigenic components
T	Plutonic lithic	T	Echinoderm	P	Pyrite (framboids)
			Benthic foraminifer		Pyrite (euhedra)
			Other bioclast (specify)	R	Pyrite (grain coating)
					Calcite
P	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)				

Am, Amk

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: 3/18/18

Expedition: 375

Observer: Noda K

Site: 1518 Hole: F Core: 3R Sect.: 3A

Interval: 68 cm

Sediment Name: silty clay with nannofossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
X								3	25	72

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	
	Chert
C	Mudstone
	Siltstone/sandstone
	Limestone
R	Metamorphic lithic
P	Plutonic lithic
Volcaniclastic Grains	
Vitric fragments	
R	Clear glass
	Colored glass
	Pumice
Volcanic lithics	
C	Felsitic
	Microlitic
T	Lathwork
	Altered volcanic (palagonite)

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
R	Nannofossils
	Foraminifers
	Siliceous
T	Diatom
	Radiolarian
	Silicoflagellate
P	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
T	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
	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)
T	Calcite
	Dolomite
	Zeolites
T	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: chlorite, Epidote, Zr.

* 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: Nada / kw

Site: 1518 Hole: F Core: 4R Sect: 1A

Interval: 80cm

Sediment Name: nannofossil-rich silty clays

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
<input checked="" type="checkbox"/>								20	80	

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: chlorite, Biotite, Epidote

* 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: Noda

Site: 1518 Hole: F Core: 4R Sect.: 3A Interval: 7 cm

Sediment Name: silty clay with nano fossils

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

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

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

Micropics → Allamite

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/18/18

Expedition: 375

Observer: OCIV/ku

Site: 1518 Hole: F Core: 5R Sect.: 1A Interval: 76

Sediment Name: clayey silt with volcanic clasts

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
V								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	Ⓢ	Nannofossils	P	Micas (biotite, musc, chl) ¹
C	Clay minerals		Foraminifers		Glauconite
			Siliceous		Phosphate (bones, teeth, etc)
P	Lithic Grains		Diatom		Opaque Grain
	Sedimentary Lithics		Radiolarian	P	Marine organic matter
T	Chert		Silicoflagellate		Terrestrial organic matter
	Mudstone	P	Sponge Spicule		Other (specify):
C	Siltstone/sandstone				
	Limestone	Other bioclasts			
R	Metamorphic lithic		Mollusk	R	Authigenic components
	Plutonic lithic		Echinoderm		Pyrite (framboids)
			Benthic foraminifer		Pyrite (euhedra)
			Other bioclast (specify)		Pyrite (grain coating)
				R	Calcite
				H	Dolomite
	Volcaniclastic Grains		Other carbonate allochems	P	Zeolites
	Vitric fragments		Peloid		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 nanos)		
	Microlitic				
	Lathwork				
R	Altered volcanic (palagonite)				

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: zircon, hornblende, allamite

* 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 LG

Site: 1518 Hole: F Core: SR Sect.: 2A

Interval: 100

Sediment Name: Silty clay nannofossils rich

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

Select one and check.

Select one and check.

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
A	Nannofossils
R	Foraminifers
	Siliceous
T	Diatom
T	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
R	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: 3/18/18

Expedition: 375

Observer: Noda/Ric

Site: 157 Hole: Core: SR Sect.: 3A

Interval: 62 cm

Sediment Name: *Evaporitic 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	20	80

Select one and check.

Select one and check.

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
C	Nannofossils
	Foraminifers
	Siliceous
R	Diatom
	Radiolarian
	Silicoflagellate
A	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	
	Dense minerals ¹
T	Micas (biotite, musc, chl) ¹
	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
R	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: *Nannos and sponge spicules close to same content, esp. more sponge sp.*

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 19/3/2018

Expedition: 325

Observer: HASHI/K

Site: 1518 Hole: F Core: 6R Sect.: 2

Interval: 65

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
<input checked="" type="checkbox"/>								0	20	80

Select one and check.

Select one and check.

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
S	Nannofossils
T	Foraminifers
Siliceous	
	Diatom
T	Radiolarian
R	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	
T	Dense minerals ¹
T	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)
T	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: 19/3/2018

Expedition: 375

Observer: HASHIKI

Site: 1518

Hole: F

Core: 6R

Sect.: 2

Interval: 103

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
✓								30	50	20

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	
	Chert
P	Mudstone
	Siltstone/sandstone
	Limestone
T	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Vitric fragments
A	Clear glass
	Colored glass
	Pumice
	Volcanic lithics
C	Felsitic
	Microitic
	Lathwork
T	Altered volcanic (palagonite)

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)
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
	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)
P	Calcite
	Dolomite
	Zeolites
T	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: 12/9/2012

Expedition: 375

Observer: HASHI M

Site: 1518 Hole: F Core: 7R Sect.: CC Interval: 4

Sediment Name: silty clay with nanno

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
<input checked="" type="checkbox"/>								15	85	

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	
F	Transparent glass
F	Colored glass
P	Volcanic lithics
	Altered volcanic(e.g. palagonite)
Authigenic components	
R	Pyrite
P	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
A	Nannofossils
R	Foraminifers
	Siliceous
	Diatom
T	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
	Pyroxene
R	Amphibole
T	Micas
T	Chlorite
	Zircon
	Apatite
	Opaque Grain
R	Glaucanite
	Opaque Grain
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: areas on the slide that are sandy silt

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 19/3/2018

Expedition: 375

Observer: HASHI

Site: 1518 Hole: A Core: 8R Sect.: 3 Interval: 6

Sediment Name: silty mottled clay with nodules

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

Select one and check.

Select one and check.

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
C	Nannofossils
R	Foraminifers
Siliceous	
	Diatom
T	Radiolarian
	Silicoflagellate
R	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
F	Pyroxene
I	Amphibole
F	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
R	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: 19/3/2018

Expedition: 375

Observer: HASHI

Site: 1518 Hole: F Core: PR Sect.: 3

Interval: 16

Sediment Name: Silty Clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
								0	25	75

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
<u>P</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>T</u>	Pyroxene
<u>R</u>	Amphibole
<u>R</u>	Micas
<u>T</u>	Chlorite
<u>R</u>	Zircon
<u>T</u>	Apatite
<u>R</u>	Opaque Grain
<u>R</u>	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: OLV/h

Site: 1518 Hole: F Core: 9B Sect.: 1A Interval: 100

Sediment Name: Silty clay with nanos

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
C	Nannofossils
R	Foraminifers
Siliceous	
T	Diatom
T	Radiolarian
	Silicoflagellate
P	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
I	Micas
I	Chlorite
T	Zircon
	Apatite
R	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: 19/3/18

Expedition: 375

Observer: OLIV *[Signature]*

Site: 1518

Hole: F

Core: 9A

Sect.: 5A

Interval: 28

Sediment Name: Sandy silt with volcanoclastic

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcanoclastic	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
E	Feldspars
	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
C	Siltstone/sandstone
	Limestone
R	Metamorphic lithic
	Plutonic lithic
Volcanoclastic Grains	
P	Transparent glass
T	Colored glass
C	Volcanic lithics
T	Altered volcanic(e.g. palagonite)
Authigenic components	
R	Pyrite
P	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
P	Nannofossils
A	Foraminifers
Siliceous	
	Diatom
	Radiolarian
R	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	
T	Olivine
	Pyroxene
T	Amphibole
R	Micas
T	Chlorite
T	Zircon
	Apatite
	Opaque Grain
A	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: 3/19/18

Expedition: 375

Observer: Noda/KM

Site: 1518 Hole: F10R Core: 10R ~~3A~~ Sect.: 3A Interval: 17 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
<u>X</u>				<u>X</u>				<u>2</u>	<u>38</u>	<u>60</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
<u>A</u>	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
<u>P</u>	Siltstone/sandstone
	Limestone
	Metamorphic lithic
<u>P</u>	Plutonic lithic
Volcaniclastic Grains	
<u>C</u>	Transparent glass
<u>T</u>	Colored glass
<u>P</u>	Volcanic lithics
<u>R</u>	Altered volcanic(e.g. palagonite)
Authigenic components	
<u>R</u>	Pyrite
	Calcite
<u>P</u>	Dolomite
	Zeolites
<u>P</u>	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
Calcareous	
<u>C</u>	Nannofossils
<u>P</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>T</u>	Pyroxene
<u>T</u>	Amphibole <u>→ Actinolite</u>
<u>R</u>	Micas
<u>R</u>	Chlorite
<u>T</u>	Zircon
	Apatite
	Opaque Grain
<u>T</u>	Glaucanite
	Opaque Grain
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: rare silty areas with volcaniclastic on the slide

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/19/18

Expedition: 375

Observer: Noda

Site: 1518 Hole: F Core: 10R Sect.: 3A

Interval: 42 cm

Sediment Name: silty clay with nannofossils 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	20	80

Select one and check.

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
A	Nannofossils
R	Foraminifers
	Siliceous
T	Diatom
	Radiolarian
	Silicoflagellate
P	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
T	Micas
T	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: 20.3.18

Expedition: 375

Observer: Ru

Site: 1518

Hole: F

Core: 10

Sect.: 3

Interval: 42

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
								20	80	

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
P	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
P	Transparent glass
	Colored glass
R	Volcanic lithics
T	Altered volcanic (e.g. palagonite)
	Authigenic components
P	Pyrite
P	Calcite
	Dolomite
	Zeolites
P	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
	Pelagic Grains
	Calcareous
C	Nannofossils
R	Foraminifers
	Siliceous
T	Diatom
	Radiolarian
	Silicoflagellate
P	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
T	Micas
T	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: 3/20/2018

Expedition: 375

Observer: Noda/Km

Site: 1518 Hole: F Core: 11R Sect.: 2A

Interval: 48

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								10	25	65

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	
	Chert
	Mudstone
R	Siltstone/sandstone
	Limestone
T	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
R	Transparent glass
R	Colored glass
F	Volcanic lithics
T	Altered volcanic (e.g. palagonite)
Authigenic components	
R	Pyrite
C	Calcite
	Dolomite
	Zeolites
C	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
F	Nannofossils
T	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
R	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
R	Amphibole
T	Micas
	Chlorite
T	Zircon
	Apatite
	Opaque Grain
R	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: 3/20/2018

Expedition: 375

Observer: Noda

Site: 1518 Hole: F Core: 11R Sect.: 3A

Interval: 18 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
<u>X</u>								<u>40</u>	<u>60</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
<u>C</u>	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
<u>C</u>	Mudstone
	Siltstone/sandstone
	Limestone
<u>T</u>	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
<u>P</u>	Transparent glass
<u>T</u>	Colored glass
<u>P</u>	Volcanic lithics
<u>T</u>	Altered volcanic (e.g. palagonite)
Authigenic components	
<u>R</u>	Pyrite
<u>P</u>	Calcite
	Dolomite
	Zeolites
<u>P</u>	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
<u>R</u>	Nannofossils
	Foraminifers
Siliceous	
<u>T</u>	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>T</u>	Pyroxene
<u>R</u>	Amphibole
<u>T</u>	Micas
<u>T</u>	Chlorite
<u>T</u>	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: 3/20/2018

Expedition: 375

Observer: Noda

Site: 1518 Hole: F Core: 12R Sect.: 1A

Interval: 75 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								20	70	10

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
T	Metamorphic lithic
P	Plutonic lithic
Volcaniclastic Grains	
C	Transparent glass
T	Colored glass
C	Volcanic lithics
	Altered volcanic (e.g. palagonite)
Authigenic components	
P	Pyrite
R	Calcite
	Dolomite
	Zeolites
P	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
C	Nannofossils
R	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
R	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
R	Amphibole
R	Micas
T	Chlorite
	Zircon
	Apatite
	Opaque Grain
P	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: 3/20/2018

Expedition: 375

Observer: Noda, K

Site: 1518 Hole: F Core: 12R Sect.: 2A

Interval: 28cm

Sediment Name: silty clay

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

Select one and check.

Select one and check.

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
P	Nannofossils
R	Foraminifers
Siliceous	
T	Diatom
	Radiolarian
	Silicoflagellate
R	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
T	Amphibole (Chlorite?)
P	Micas
T	Chlorite
	Zircon
T	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: 3/20/2018

Expedition: 375

Observer: Noda / h

Site: 1518 Hole: F Core: 12R Sect.: 3A

Interval: 59 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>0</u>	<u>20</u>	<u>80</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
	Feldspars
<u>C</u>	Clay minerals
Lithic Grains	
Sedimentary Lithics	
<u>T</u>	Chert
	Mudstone
<u>P</u>	Siltstone/sandstone
	Limestone
<u>T</u>	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
<u>P</u>	Transparent glass
<u>T</u>	Colored glass
<u>P</u>	Volcanic lithics
<u>T</u>	Altered volcanic (e.g. palagonite)
Authigenic components	
<u>P</u>	Pyrite
<u>P</u>	Calcite
	Dolomite
	Zeolites
<u>T</u>	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
<u>A</u>	Nannofossils
<u>P</u>	Foraminifers
Siliceous	
<u>R</u>	Diatom
	Radiolarian
	Silicoflagellate
<u>P</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
	Pyroxene
	Amphibole
<u>F</u>	Micas
<u>F</u>	Chlorite
	Zircon
<u>T</u>	Apatite
	Opaque Grain
<u>T</u>	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: 20/3/2018

Expedition: 325

Observer: HASHI / M

Site: 1518 Hole: F Core: 13R Sect.: 1

Interval: 35

Sediment Name: Silty Clay with nanofossil

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and check.

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

Select one and check.

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
A	Nanofossils
T	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
C	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
T	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: partly recrystallized nanofossils

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 20/3/2018

Expedition: 325

Observer: HASHI

Site: 1518 Hole: F Core: 13R Sect.: 1

Interval: 60

Sediment Name: intermediate clayey silt with nodules

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

Select one and check.

Select one and check.

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
P	Nannofossils
P	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
T	Amphibole
T	Micas
P	Chlorite
	Zircon
T	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: 20/3/2018

Expedition: 325

Observer: HASHI

Site: 1518 Hole: F Core: 13R Sect.: 1 Interval: 99

Sediment Name: clayey silt with nanno

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

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
<u>C</u>	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
<u>P</u>	Mudstone
<u>P</u>	Siltstone/sandstone
	Limestone
<u>T</u>	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
<u>P</u>	Transparent glass
<u>T</u>	Colored glass
<u>P</u>	Volcanic lithics
	Altered volcanic (e.g. palagonite)
Authigenic components	
<u>R</u>	Pyrite
<u>C</u>	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>P</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
	Pyroxene
<u>P</u>	Amphibole
<u>P</u>	Micas
<u>T</u>	Chlorite
	Zircon
	Apatite
<u>P</u>	Opaque Grain
	Glaucanite
	Opaque Grain
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: calcit snots or mosaic recrystallised nannos

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 20.3.18

Expedition: 375

Observer: Pu

Site: 1578 Hole: P Core: 13 Sect.: 1

Interval: 114

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	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>T</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	
	Pyrite
<u>T</u>	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: 20/3/2018

Expedition: 375

Observer: HASHI

Site: 1518 Hole: F Core: 13R Sect.: 2 Interval: 14

Sediment Name: clayey nannofossil ooze with silt

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
Calcareous	
A	Nannofossils
φ	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
P	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
I	Amphibole
I	Micas
T	Chlorite
	Zircon
	Apatite
	Opaque Grain
T	Glaucanite
	Opaque Grain
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: 2 species of nannos (large & small)

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

for pictures

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 20/3/2017

Expedition: 325

Observer: HASHI

Site: 1512 Hole: F Core: 13R Sect.: 2

Interval: 25

Sediment Name: tuffaceous ooze

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

Select one and check.

Select one and check.

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
D	Nannofossils
T	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
F	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
T	Glaucanite
	Opaque Grain
	Other (specify):

¹List 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: 20/3/2018

Expedition: 325

Observer: HASHI

Site: 1518 Hole: F Core: 14R Sect.: 1

Interval: 51

Sediment Name: *nanossil rich silty clay*

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
A	Nannofossils
P	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
P	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
T	Micas
T	Chlorite
	Zircon
	Apatite
	Opaque Grain
T	Glauconite
	Opaque Grain
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: *nanossil + recrystallized to calcite s/s*

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 20/3/2018

Expedition: 375

Observer: HASHI/K

Site: 1518 Hole: F

Core: 14R Sect.: 2

Interval: 36

Sediment Name: pyrite-rich silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
								5	90	25

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>E</u>	Feldspars
	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
<u>R</u>	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
<u>R</u>	Transparent glass
	Colored glass
	Volcanic lithics
	Altered volcanic (e.g. palagonite)
Authigenic components	
<u>D</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
<u>R</u>	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
<u>T</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
	Pyroxene
	Amphibole
	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glaucanite
	Opaque Grain
	Other (specify):
<u>T</u>	<u>H₆</u>

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

→ Christie 375

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 20.3.18

Expedition: 375

Observer: Ru

Site: 1518

Hole: P

Core: 14

Sect.: 1

Interval: 135

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>10</u>	<u>60</u>	<u>30</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
<u>P</u>	Clay minerals
Lithic Grains	
Sedimentary Lithics	
<u>T</u>	Chert
	Mudstone
<u>P</u>	Siltstone/sandstone
	Limestone
<u>T</u>	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
<u>P</u>	Transparent glass
	Colored glass
<u>P</u>	Volcanic lithics
	Altered volcanic(e.g. palagonite)
Authigenic components	
<u>C</u>	Pyrite
<u>P</u>	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
<u>P</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>P</u>	Pyroxene
<u>P</u>	Amphibole
	Micas
<u>P</u>	Chlorite
<u>T</u>	Zircon
	Apatite
	Opaque Grain
	Glaucconite
	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: 20.3.18

Expedition: 375

Observer: Ru

Site: 1518 Hole: 1 Core: 14 Sect.: 1

Interval: 136

Sediment Name: nannofossil w/ silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
								5	20	75

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>P</u>	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
<u>P</u>	Transparent glass
	Colored glass
<u>P</u>	Volcanic lithics
	Altered volcanic (e.g. palagonite)
Authigenic components	
	Pyrite
<u>C</u>	Calcite
	Dolomite
	Zeolites
<u>P</u>	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
<u>A</u>	Nannofossils
<u>R</u>	Foraminifers
Siliceous	
	Diatom
	Radiolarian
<u>P</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>T</u>	Pyroxene
	Amphibole
	Micas
<u>T</u>	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: nannos recrystallized to...

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 20.3.13

Expedition: 375

Observer: ku

Site: 1518

Hole: F

Core: 14

Sect.: 2

Interval: 6D

Sediment Name: 5" naumofossil-rich clayey silt

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
<u>A</u>	Nannofossils
<u>P</u>	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
<u>P</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
	Pyroxene
<u>P</u>	Amphibole
<u>P</u>	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
<u>P</u>	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: 20.3.18

Expedition: 375

Observer: Ru

Site: 15A7 Hole: F Core: 15 Sect.: 1

Interval: 69

Sediment Name: nanofossil-rich silty clay

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
A	Nannofossils
P	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
P	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
T	Amphibole
	Micas
T	Chlorite
	Zircon
	Apatite
	Opaque Grain
T	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: 20.3.18

Expedition: 375

Observer: RCU

Site: A518 Hole: F Core: 15 Sect.: 3

Interval: 42

Sediment Name: Hydrocarbonitic clayey silt with

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

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
T	Metamorphic lithic
T	Plutonic lithic
Volcaniclastic Grains	
C	Transparent glass
	Colored glass
C	Volcanic lithics
P	Altered volcanic (e.g. palagonite)
Authigenic components	
P	Pyrite
P	Calcite
	Dolomite
	Zeolites
R	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
C	Nannofossils
R	Foraminifers
Siliceous	
	Diatom
	Radiolarian
T	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
P	Chlorite
	Zircon
	Apatite
	Opaque Grain
P	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

Pyrite?
NO significant

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 22.3.18

Expedition: 375

Observer: M

Site: 1598 Hole: F Core: 16 Sect.: 4

Interval: 2-4

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
A	Nannofossils
R	Foraminifers
Siliceous	
T	Diatom
	Radiolarian
	Silicoflagellate
P	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
T	Amphibole
T	Micas
	Chlorite
	Zircon
T	Apatite
	Opaque Grain
R	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: 22.3.18

Expedition: 375

Observer: Ru

Site: 1578 Hole: F Core: 76 Sect.: 4

Interval: 28

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
								45	55	

Select one and check.

Select one and check.

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
S	Nannofossils
R	Foraminifers
	Siliceous
T	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
P	Amphibole
	Micas
R	Chlorite
R	Zircon
	Apatite
R	Opaque Grain
R	Glauconite
	Other (specify):

Amphibole

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: Alluvial

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 21/3/2018

Expedition: 375 Observer: Ky

Site: 1518 Hole: F Core: 17R Sect.: 1 Interval: 82

Sediment Name: Silty ooze

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

Select one and check. Select one and check.

T/R/P/C/A/D/M	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	
P	Transparent glass
	Colored glass
T	Volcanic lithics
	Altered volcanic (e.g. palagonite)
Authigenic components	
R	Pyrite
P	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
D	Nannofossils
R	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
R	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
T	Amphibole
T	Micas
R	Chlorite
	Zircon
	Apatite
	Opaque Grain
T	Glauconite
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: 2 nanos 60%

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 21/3/2018

Expedition: 325

Observer: kn

Site: 1518 Hole: F Core: 12R Sect.: 3

Interval: 39

Sediment Name: nonfossil-rich 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"/>								70	60	20

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
<u>C</u>	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
<u>C</u>	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
<u>P</u>	Transparent glass
<u>P</u>	Colored glass
<u>P</u>	Volcanic lithics
	Altered volcanic (e.g. palagonite)
Authigenic components	
<u>P</u>	Pyrite
<u>C</u>	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
<u>A</u>	Nannofossils
<u>R</u>	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
<u>P</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>T</u>	Pyroxene
<u>R</u>	Amphibole
<u>P</u>	Micas
<u>P</u>	Chlorite
<u>P</u>	Zircon
	Apatite
	Opaque Grain
<u>R</u>	Glaucanite
	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: 21/3/2018

Expedition: 325

Observer: ka

Site: 1518 Hole: F Core: 17R Sect.: 4

Interval: 50

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
✓								5	20	75

Select one and check.

Select one and check.

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
C	Nannofossils
R	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
T	Sponge Spicule
Other bioclasts	
	Mollusk
T	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
T	Amphibole
R	Micas
R	Chlorite
	Zircon
	Apatite
	Opaque Grain
P	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: 21/3/2018

Expedition: 325

Observer: Ku

Site: 1518

Hole: F

Core: 17R

Sect.: 4

Interval: A1

Sediment Name:

Clayey silt with nannofossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
<u>V</u>								<u>20</u>	<u>50</u>	<u>30</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 Mineral Grain Types	
<u>P</u>	Quartz		Calcareous		Olivine
<u>C</u>	Feldspars	<u>C</u>	Nannofossils		Pyroxene
<u>C</u>	Clay minerals	<u>T</u>	Foraminifers		Amphibole
			Siliceous	<u>T</u>	Micas
	Lithic Grains		Diatom	<u>P</u>	Chlorite
	Sedimentary Lithics		Radiolarian	<u>T</u>	Zircon
	Chert		Silicoflagellate		Apatite
	Mudstone	<u>T</u>	Sponge Spicule		Opaque Grain
<u>P</u>	Siltstone/sandstone			<u>P</u>	Glauconite
	Limestone		Other bioclasts		Other (specify):
<u>T</u>	Metamorphic lithic		Mollusk		
	Plutonic lithic		Echinoderm		
			Benthic foraminifer		
	Volcaniclastic Grains		Other bioclast (specify)		
<u>P</u>	Transparent glass				
	Colored glass		Minor Other Grain Types		
<u>P</u>	Volcanic lithics		Phosphate (bones, teeth, etc)		
<u>T</u>	Altered volcanic (e.g. palagonite)		Marine organic matter		
			Terrestrial organic matter		
	Authigenic components		Other (specify):		
<u>C</u>	Pyrite				
<u>P</u>	Calcite		Other carbonate allochems		
	Dolomite		Peloid		
	Zeolites		Intraclast		
	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: 23.3.18

Expedition: 375

Observer: Ru

Site: 1598

Hole: F

Core: 77

Sect.: 5

Interval: 45

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
A	Nannofossils
R	Foraminifers
	Siliceous
T	Diatom
	Radiolarian
	Silicoflagellate
P	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
T	Amphibole
R	Micas
T	Chlorite
T	Zircon
	Apatite
	Opaque Grain
R	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

Nice picture

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 22.3.18

Expedition: 375

Observer: HU

Site: 375 Hole: F Core: 17 Sect.: 5

Interval: 48

Sediment Name: muddy ooze

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
D	Nannofossils
P	Foraminifers
Siliceous	
T	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
T	Pyroxene
T	Amphibole
T	Micas
T	Chlorite
	Zircon
	Apatite
	Opaque Grain
P	Glauconite
	Other (specify):

List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: Aluminite

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/21/2018

Expedition: 375

Observer: Noda/Ku

Site: 1518 Hole: F Core: 18R Sect.: 1A

Interval: 78 cm

Sediment Name: clayey silt with nannofossils
volcaniclastic

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
								5	75	20

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	
C	Transparent glass
T	Colored glass
C	Volcanic lithics
R	Altered volcanic (e.g. palagonite)
Authigenic components	
R	Pyrite
P	Calcite
	Dolomite
	Zeolites
T	Fe/Mn oxide
	Other (specify):

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

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: fine-sand-size glasses, v.f. sand-fsand size siliciclastics

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/21/2018

Expedition: 375

Observer: Noda Ken

Site: 1518 Hole: F Core: 10R Sect.: 2A

Interval: 30 cm

Sediment Name: silty clay
nannofossil-rich

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

Select one and check.

Select one and check.

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

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)
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
T	Amphibole
T	Micas
T	Chlorite
	Zircon
	Apatite
	Opaque Grain
T	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: 3/21/2018

Expedition: 375

Observer: Noda/Ken

Site: 1518 Hole: F Core: 18R Sect.: 2A

Interval: 106

Sediment Name: muddy nannofossil ooze

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

Select one and check.

Select one and check.

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
D	Nannofossils
T	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
P	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
T	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
T	Glaucinite
	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: 3/21/18

Expedition: 375

Observer: OLIV/PABI L

Site: 1518 Hole: F Core: 19B Sect.: 1A

Interval: 30

Sediment Name: Nannofossils rich clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
V								1	9	90

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	
	Chert
	Mudstone
P	Siltstone/sandstone
	Limestone
T	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
R	Transparent glass
R	Colored glass
T	Volcanic lithics
	Altered volcanic (e.g. palagonite)
Authigenic components	
P	Pyrite
P	Calcite
	Dolomite
	Zeolites
T	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
A	Nannofossils
	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
P	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
T	Amphibole
	Micas
T	Chlorite
T	Zircon
	Apatite
P	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: 2/13/18

Expedition: 375

Observer: OLIV / RABIN

Site: 1518 Hole: F

Core: 19 Sect.: 3A

Interval: 9cm

Sediment Name: Silty clay w/ ...

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
V				X				5	25	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
	Clay minerals
Lithic Grains	
Sedimentary Lithics	
P	Chert
P	Mudstone
P	Siltstone/sandstone
P	Limestone
T	Metamorphic lithic
T	Plutonic lithic
Volcaniclastic Grains	
P	Transparent glass
P	Colored glass
P	Volcanic lithics
T	Altered volcanic (e.g. palagonite)
Authigenic components	
R	Pyrite
R	Calcite
	Dolomite
	Zeolites
T	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
Calcareous	
R	Nannofossils
T	Foraminifers
Siliceous	
	Diatom
	Radiolarian
P	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
T	Amphibole
T	Micas
T	Chlorite
T	Zircon
	Apatite
P	Opaque Grain
T	Glaucanite
	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: 3/21/18

Expedition: 375

Observer: OLIV/RAB/CL

Site: UISIP Hole: F Core: 19R Sect.: 3A

Interval: 36cm

Sediment Name: fine rich clayey silt

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

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	
	Chert
C	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
P	Transparent glass
P	Colored glass
	Volcanic lithics
	Altered volcanic (e.g. palagonite)
Authigenic components	
P	Pyrite
P	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
B	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
B	Zircon
	Apatite
T	Opaque Grain
	Glaucinite
	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: 3/21/18

Expedition: 375

Observer: OLIV/M

Site: 1518

Hole: F

Core: 19B

Sect.: 3A

Interval: 39

Sediment Name: volcaniclastic sandy silt with volcanidolite

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
V								30	50	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
	Mudstone
P	Siltstone/sandstone
	Limestone
R	Metamorphic lithic
T	Plutonic lithic
Volcaniclastic Grains	
P	Transparent glass
T	Colored glass
C	Volcanic lithics
T	Altered volcanic (e.g. palagonite)
Authigenic components	
	Pyrite
R	Calcite
	Dolomite
	Zeolites
T	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
C	Nannofossils
T	Foraminifers
Siliceous	
T	Diatom
	Radiolarian
	Silicoflagellate
R	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
R	Amphibole
T	Micas
T	Chlorite
	Zircon
	Apatite
	Opaque Grain
R	Glauconite
	Other (specify):

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

Expedition: 375 Observer: Na

Site: 1548 Hole: F Core: 20 Sect.: 7 Interval: 24

Sediment Name: nanofossil-rich silty clay

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

Select one and check.

Select one and check.

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
A	Nannofossils
	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
P	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
R	Micas
R	Chlorite
	Zircon
	Apatite
	Opaque Grain
R	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: 2.13.

Expedition: 375 Observer: Ry

Site: 7578 Nanofossil Core: 20 Sect.: 7 Interval: 43

Sediment Name: Silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
									<u>70</u>	<u>90</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>P</u>	Feldspars
	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
<u>R</u>	Siltstone/sandstone
<u>T</u>	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
<u>R</u>	Transparent glass
<u>T</u>	Colored glass
<u>R</u>	Volcanic lithics
<u>T</u>	Altered volcanic (e.g. palagonite)
Authigenic components	
<u>R</u>	Pyrite
<u>E</u>	Calcite
	Dolomite
	Zeolites
<u>R</u>	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
<u>A</u>	Nannofossils
<u>T</u>	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
	Glauconite
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: at the border to only with nanofossils

* 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: Ru

Site: 7578 Hole: F Core: 20R Sect.: 3

Interval: 106

Sediment Name: sandy silt with volcanoclastic

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
C	Nannofossils
T	Foraminifers
Siliceous	
T	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
P	Amphibole
R	Micas
R	Chlorite
	Zircon
	Apatite
	Opaque Grain
R	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

Coar

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 213

Expedition: 378

Observer: Rer

Site: 1518 Hole: F Core: 20 Sect.: 3

Interval: 108

Sediment Name: nanoparticulate silty clay v

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
								5	20	75

Select one and check.

Select one and check.

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
A	Nannofossils
R	Foraminifers
Siliceous	
T	Diatom
	Radiolarian
	Silicoflagellate
P	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
R	Micas
T	Chlorite
	Zircon
	Apatite
	Opaque Grain
T	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: 27.3.

Expedition: 325

Observer: Ru

Site: 1518 Hole: F Core: 20 Sect.: 3

Interval: 172

Sediment Name: nanofossil-rich silty clay

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

Select one and check.

Select one and check.

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
A	Nannofossils
P	Foraminifers
Siliceous	
	Diatom
	Radiolarian
R	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
T	Pyroxene
	Amphibole
R	Micas
R	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glauconite
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

map silty grains on slide but minor.

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 21.3.14

Expedition: 375

Observer: LU

Site: 1518 Hole: F Core: 01R Sect.: 1

Interval: 44

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
								10	30	60

Select one and check.

Select one and check.

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
A	Nannofossils
R	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
P	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
T	Amphibole
P	Micas
R	Chlorite
T	Zircon
	Apatite
	Opaque Grain
R	Glauconite
	Other (specify):

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: Pa

Site: 9598 Hole: F Core: 27 Sect.: 1

Interval: 55

Sediment Name: maddy 0020

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
								5	20	75

Select one and check.

Select one and check.

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
D	Nannofossils
C	Foraminifers
Siliceous	
P	Diatom
	Radiolarian
	Silicoflagellate
P	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
P	Amphibole
T	Micas
R	Chlorite
	Zircon
	Apatite
P	Opaque Grain
	Glauconite
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: Some areas of the slide with sand/silt

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 21.3.14

Expedition: 375

Observer: RN

Site: 7518 Hole: F Core: 21 Sect.: 3 Interval: 31

Sediment Name: Silty clay with foraminifera

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
								90	30	60

Select one and check. Select one and check.

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
A	Nannofossils
R	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
C	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
R	Amphibole
T	Micas
	Chlorite
T	Zircon
	Apatite
	Opaque Grain
R	Glauconite
	Other (specify):

cast with

List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: Parts of the slide had more silt + Metamorphic

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 21.3.78

Expedition: 375 Observer: Ru

Site: 1516 Hole: F Core: 21 Sect.: 4 Interval: 58

Sediment Name: volcaniclastic Sandy silt with microfossils

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

Select one and check.

Select one and check.

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

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):
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
P	Amphibole
P	Micas
R	Chlorite
T	Zircon
	Apatite
P	Opaque Grain
R	Glauconite
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: more sandy and more silty areas on the slide

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/22/2018

Expedition: 375

Observer: Noda / km

Site: 1518 Hole: F Core: 22R Sect.: 1A

Interval: 68 cm

Sediment Name: sandy silt with volcanic ash

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

Select one and check.

Select one and check.

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

T/R/P/C/I/A/D/M	Composition
Pelagic Grains	
	Calcareous
C	Nannofossils
R	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
P	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/I/A/D/M	Composition
Minor Mineral Grain Types	
	Olivine
T	Pyroxene
T	Amphibole
	Micas
T	Chlorite
R	Zircon
	Apatite
T	Opaque Grain
P	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: 3/22/2018

Expedition: 375

Observer: Noda/K

Site: 1518 Hole: F Core: 22R Sect.: 1A

Interval: 80cm

Sediment Name: muddy nannofossil ooze

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

Select one and check.

Select one and check.

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

¹ List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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

Remarks:

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

Picture Arkhmodith

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/22/2018

Expedition: 375

Observer: Nodalkh

Site: 1518 Hole: F Core: 22R Sect.: 1A Interval: 87cm

Sediment Name: silty clay with conchoidal

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	25	75

Select one and check.

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

¹ List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/22/2018

Expedition: 375

Observer: Nodqll

Site: 1518 Hole: F Core: 23R Sect.: 1A

Interval: 54

Sediment Name: volcaniclastics 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"/>				<input checked="" type="checkbox"/>				30	50	20

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
	Mudstone
<u>P</u>	Siltstone/sandstone
	Limestone
<u>T</u>	Metamorphic lithic
<u>R</u>	Plutonic lithic
Volcaniclastic Grains	
<u>C</u>	Transparent glass
<u>R</u>	Colored glass
<u>C</u>	Volcanic lithics
<u>R</u>	Altered volcanic (e.g. palagonite)
Authigenic components	
<u>R</u>	Pyrite
<u>P</u>	Calcite
<u>T</u>	Dolomite
	Zeolites
<u>R</u>	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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

Remarks:

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/22/2018

Expedition: 375

Observer: Noda

Site: 1518 Hole: F Core: 23R Sect.: 2A

Interval: 43 cm

Sediment Name: muddy nannofossil ooze

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
		X		0	10	90

Select one and check.

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

T/R/P/C/I/A/D/M	Composition
Pelagic Grains	
	Calcareous
M	Nannofossils
P	Foraminifers
Siliceous	
R	Diatom
	Radiolarian
	Silicoflagellate
R	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/I/A/D/M	Composition
Minor Mineral Grain Types	
	Olivine
	Pyroxene
T	Amphibole
T	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
R	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: 3/22/18

Expedition: 375

Observer: OLIV /h

Site: 1578

Hole: F

Core: 24B

Sect.: 2A

Interval: 65

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
V								1	30	69

Select one and check.

Select one and check.

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
C	Nannofossils
P	Foraminifers
Siliceous	
	Diatom
	Radiolarian
R	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
P	Micas
	Chlorite
	Zircon
	Apatite
R	Opaque Grain
T	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: 3/22/18

Expedition: 375

Observer: OLIV/KR

Site: 1518

Hole: F

Core: 25B

Sect.: 1A

Interval: 55

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
V								~	20	80

Select one and check.

Select one and check.

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

List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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

Remarks:

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/22/18

Expedition: 375

Observer: OLIV/h

Site: 1518 Hole: F Core: 26R Sect.: 2A

Interval: 109

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
V								1	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
	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
C	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
P	Transparent glass
B	Colored glass
C	Volcanic lithics
T	Altered volcanic (e.g. palagonite)
Authigenic components	
P	Pyrite
R	Calcite
	Dolomite
	Zeolites
T	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
A	Nannofossils
T	Foraminifers
Siliceous	
T	Diatom
	Radiolarian
	Silicoflagellate
P	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
R	Micas
	Chlorite
	Zircon
	Apatite
T	Opaque Grain
R	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: 3/22/18

Expedition: 375

Observer: OLIV/h

Site: 1518 Hole: F Core: 27B Sect.: 1A

Interval: 37

Sediment Name: *with nannofossil-rich silty clay*

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
V								1	25	75

Select one and check.

Select one and check.

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
A	Nannofossils
	Foraminifers
Siliceous	
T	Diatom
	Radiolarian
	Silicoflagellate
P	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	
T	Olivine
	Pyroxene
F	Amphibole
I	Micas
I	Chlorite
T	Zircon
	Apatite
R	Opaque Grain
T	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: 22/3/18

Expedition: 375

Observer: OLIV/K

Site: 1518 Hole: F Core: 27R Sect.: 1A

Interval: 84

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	50	20

Select one and check.

Select one and check.

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
C	Nannofossils
R	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
T	Micas
R	Chlorite
T	Zircon
	Apatite
T	Opaque Grain
R	Glauconite
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: minor parts of the slide are more clayey

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

nice Minards for pictures

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 23.3.18

Expedition: 375

Observer: Ru

Site: 1578 Hole: F

Core: 28 Sect.: 3

Interval: 59

Sediment Name: ash (half)

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

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
R	Quartz
C	Feldspars
R	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
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
C	Amphibole + <i>Allanite</i>
	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
R	Glauconite
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: + Allanite

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 22.3.18

Expedition: 375

Observer: Ru

Site: 1598 Hole: F Core: 08 Sect.: 3

Interval: 118

Sediment Name: volcanidetic sandy silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
								35	60	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
C	Clay minerals
Lithic Grains	
Sedimentary Lithics	
	Chert
	Mudstone
P	Siltstone/sandstone
	Limestone
T	Metamorphic lithic
R	Plutonic lithic
Volcaniclastic Grains	
C	Transparent glass
T	Colored glass
A	Volcanic lithics
T	Altered volcanic (e.g. palagonite)
Authigenic components	
R	Pyrite
	Calcite
R	Dolomite
	Zeolites
T	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
C	Nannofossils
	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
R	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
R	Amphibole
R	Micas
T	Chlorite
T	Zircon
T	Apatite
R	Opaque Grain
R	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: 3/23/2018

Expedition: 375

Observer: Noda K

Site: 1518 Hole: F Core: 28R Sect.: 4A

Interval: 9cm

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>0</u>	<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>P</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>P</u>	Transparent glass
<u>R</u>	Colored glass
<u>P</u>	Volcanic lithics
	Altered volcanic(e.g. palagonite)
Authigenic components	
	Pyrite
<u>P</u>	Calcite
	Dolomite
	Zeolites
<u>P</u>	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
<u>C</u>	Nannofossils
<u>P</u>	Foraminifers
Siliceous	
<u>R</u>	Diatom
	Radiolarian
	Silicoflagellate
<u>P</u>	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Minor Other Grain Types	
	Phosphate (bones, teeth, etc)
	Marine organic matter
<u>P</u>	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>T</u>	Amphibole (<u>Actinolite</u>)
<u>T</u>	Micas
<u>T</u>	Chlorite
<u>T</u>	Zircon
<u>R</u>	Apatite
	Opaque Grain
<u>R</u>	Glaucinite
<u>T</u>	Other (specify): <u>Garnet</u>

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: 3/23/2018

Expedition: 375

Observer: Noda / R

Site: 1518 Hole: F Core: 28R Sect.: 4A

Interval: 55 cm

Sediment Name: fine grained 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	15	85

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	
Sedimentary Lithics	
T	Chert
	Mudstone
P	Siltstone/sandstone
	Limestone
T	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
R	Transparent glass
T	Colored glass
P	Volcanic lithics
	Altered volcanic (e.g. palagonite)
Authigenic components	
R	Pyrite
R	Calcite
	Dolomite
	Zeolites
P	Fe/Mn oxide
	Other (specify):

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

T/R/P/C/A/D/M	Composition
Minor Mineral Grain Types	
T	Olivine
T	Pyroxene
	Amphibole
P	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: 3/23/2018

Expedition: 375

Observer: Noda lk

Site: 1518 Hole: F Core: 28R Sect.: 5A

Interval: 17 cm

Sediment Name: silty clay (volcaniclastic) silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
X								0	40	60

Select one and check.

Select one and check.

60 40

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
K	Nannofossils
P	Foraminifers
Siliceous	
	Diatom
	Radiolarian
	Silicoflagellate
P	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
I	Pyroxene
T	Amphibole hornblende, Actinolite
T	Micas
T	Chlorite
T	Zircon
	Apatite
	Opaque Grain
	Glauconite
	Other (specify):

List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: some areas with dominant volcaniclastic silt

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/23/2018

Expedition: 375

Observer: Noda/L

Site: 1518 Hole: F Core: 28R Sect.: 5A

Interval: 52cm

Sediment Name: non-silty clay with microfossils

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

Select one and check.

Select one and check.

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

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

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

List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: areas with weak volcanic/glastic silt

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/23/2018

Expedition: 375

Observer: Noda/K

Site: 1518 Hole: F Core: 29R Sect.: 3A

Interval: 12 cm

Sediment Name: silty clay with nannofossils

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

Select one and check.

Select one and check.

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
C	Nannofossils
	Foraminifers
Siliceous	
P	Diatom
	Radiolarian
	Silicoflagellate
P	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
R	Amphibole
R	Micas
	Chlorite
T	Zircon
T	Apatite
	Opaque Grain
T	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: 3/23/2018

Expedition: 375

Observer: Noda

Site: 1518 Hole: F Core: 29R Sect.: 3A

Interval: 125cm

Sediment Name: muddy nannofossil ooze

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

Select one and check.

Select one and check.

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
D	Nannofossils
	Foraminifers
Siliceous	
R	Diatom
	Radiolarian
	Silicoflagellate
P	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
T	Amphibole
T	Micas
T	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glauconite
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: Large nanno (>10 μm)

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/23/2018

Expedition: 375

Observer: Noda

Site: 1518 Hole: F Core: 29R Sect.: 5A Interval: 43cm

Sediment Name: sandy silt with nannofossils
volcaniclastic

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

Select one and check.

Select one and check.

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

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)
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
R	Amphibole
T	Micas
	Chlorite
	Zircon
T	Apatite
P	Opaque Grain
R	Glauconite
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: ~ fine sand (<200 μm) size of glass

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/23/2018

Expedition: 375

Observer: Noda /h

Site: 1518 Hole: F Core: 30R Sect.: 4A

Interval: 65 cm

Sediment Name: pyrite silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
<u>X</u>									<u>20</u>	<u>80</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>P</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>P</u>	Transparent glass
<u>R</u>	Colored glass
<u>P</u>	Volcanic lithics
	Altered volcanic (e.g. palagonite)
Authigenic components	
<u>D</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
	Foraminifers
Siliceous	
<u>R</u>	Diatom
	Radiolarian
	Silicoflagellate
<u>A</u>	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Minor Other Grain Types	
	Phosphate (bones, teeth, etc)
	Marine organic matter
<u>T</u>	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
<u>T</u>	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
<u>R</u>	Glauconite
	Other (specify):

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: clay-sized pyrite (<4µm)

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/23/2018

Expedition: 375

Observer: Noda

Site: 1518 Hole: F Core: 30R Sect.: 4A

Interval: 121 cm *kn*

Sediment Name: midway nanno/fossil ooze

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

Select one and check.

Select one and check.

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

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

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

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: 3/23/2018

Expedition: 375

Observer: Noda M

Site: 1518 Hole: F Core: 30R Sect.: 4A Interval: 125cm

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
<u>A</u>	Nannofossils
<u>P</u>	Foraminifers
Siliceous	
<u>R</u>	Diatom
	Radiolarian
	Silicoflagellate
<u>P</u>	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Minor Other Grain Types	
	Phosphate (bones, teeth, etc)
	Marine organic matter
<u>R</u>	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>R</u>	Amphibole
<u>T</u>	Micas
	Chlorite
<u>T</u>	Zircon
	Apatite
	Opaque Grain
<u>R</u>	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: 3/23/2018

Expedition: 375

Observer: Noda M

Site: 1518 Hole: F Core: 31R Sect.: 2A

Interval: 92cm

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			20	60	20

Select one and check.

Select one and check.

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
C	Nannofossils
P	Foraminifers
Siliceous	
R	Diatom
	Radiolarian
	Silicoflagellate
P	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
R	Amphibole
T	Micas
T	Chlorite
T	Zircon
	Apatite
R	Opaque Grain
	Glauconite
T	Other (specify):
	<u>Mantle</u>

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: n ≥ 00 μm glass

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/23/2018

Expedition: 375

Observer: Noda K

Site: 1518 Hole: F Core: 31R Sect.: 5A

Interval: 47cm

Sediment Name: nonmagnetite-rich silty clay with fossils

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

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)
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
T	Chlorite
T	Zircon
	Apatite
	Opaque Grain
R	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: 3/23/2018

Expedition: 375

Observer: Noda

Site: 1518 Hole: F

Core: 32R Sect.: 7A

Interval: 26 cm

Sediment Name: silty clay with microfossils

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

Select one and check.

Select one and check.

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

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
<u>C</u>	Nannofossils
<u>P</u>	Foraminifers
Siliceous	
<u>R</u>	Diatom
	Radiolarian
	Silicoflagellate
<u>P</u>	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Minor Other Grain Types	
	Phosphate (bones, teeth, etc)
	Marine organic matter
<u>T</u>	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
<u>R</u>	Micas
<u>T</u>	Chlorite
<u>T</u>	Zircon
<u>T</u>	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: 3/23/2018

Expedition: 375

Observer: Noda

Site: 1518 Hole: F Core: 32R Sect.: 7A

Interval: 36 cm

Sediment Name: volcanic ash silt

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
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	
R	Transparent glass
R	Colored glass
C	Volcanic lithics
T	Altered volcanic (e.g. palagonite)
Authigenic components	
P	Pyrite
P	Calcite
	Dolomite
	Zeolites
P	Fe/Mn oxide
	Other (specify):

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):
Minor Other Grain Types	
	Phosphate (bones, teeth, etc)
	Marine organic matter
T	Terrestrial organic matter
	Other (specify):
Other carbonate allochems	
	Peloid
	Intraclast

T/R/P/C/A/D/M	Composition
Minor Mineral Grain Types	
	Olivine
	Pyroxene
R	Amphibole (Actinolite, Hbl)
R	Micas
T	Chlorite
R	Zircon
T	Apatite
	Opaque Grain
R	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