375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/18/18

Expedition: 375 Observer: OLI/fm

Site: 1518 Hole: F Core: 2R Sect.: 1A Interval: 18

Sediment Name: Silty clay with nannofossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
V			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				1	40	59

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
C	**Volcaniclastic Grains**
	Vitric fragments
C	Clear glass
	Colored glass
	Pumice
	Volcanic lithics
C	Felsitic
	Microlitc
	Lathwork
T	Altered volcanic(palagonite)

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

T/R/P/C/A/D/M	Composition
	Minor Grain Types
R	Dense minerals[1]
	Micas (biotite, musc, chl)[1]
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 / some S/Mg 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 / LL

Site: 1518 Hole: F Core: 2R Sect.: 2A Interval: 39

Sediment Name: Silty Clay with nannofossils ~~ooze~~

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
V			

Select one and check.

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

Select one and check.

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

T/R/P/C/A/D/M	Composition
	Pelagic Grains
	Calcareous
A	Nannofossils
D	Foraminifers
	Siliceous
	Diatom
R	Radiolarian
	Sillicoflagellate
D	Sponge Spicule
	Other bioclasts
	Mollusk
T	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]
T	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
P	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
R	Calcite
	Dolomite
	Zeolites
R	Fe/Mn oxide
	Other (specify):

Ap, Amph

[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 Ik

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
X			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				3	25	72

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
P	Plutonic lithic
	Volcaniclastic Grains
	Vitric fragments
P	Clear glass
T	Colored glass
	Pumice
	Volcanic lithics
C	Felsitic
	Microlitc
	Lathwork
T	Altered volcanic(palagonite)

T/R/P/C/A/D/M	Composition
	Pelagic Grains
	Calcareous
C	Nannofossils
R	Foraminifers
	Siliceous
T	Diatom
	Radiolarian
	Sillicoflagellate
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
TR	Dense minerals[1]
TR	Micas (biotite, musc, chl)[1]
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
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: Noda/Hu

Site: 1518 Hole: F Core: 4R Sect.: 1A Interval: 80cm

Sediment Name: nannofossil-rich silty clayst

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

T/R/P/C/A/D/M	Composition
	Pelagic Grains
	Calcareous
A	Nannofossils
	Foraminifers
	Siliceous
T	Diatom
	Radiolarian
	Sillicoflagellate
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)
T	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
P	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
R	Calcite
T	Dolomite
	Zeolites
P	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: 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 Yu

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

Sediment Name: silty clay with nannofossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

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

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
R	Metamorphic lithic
T	Plutonic lithic
	Volcaniclastic Grains
	Vitric fragments
P	Clear glass
	Colored glass
	Pumice
	Volcanic lithics
R	Felsitic
	Microlitc
	Lathwork
	Altered volcanic(palagonite)

T/R/P/C/A/D/M	Composition
	Pelagic Grains
	Calcareous
C	Nannofossils
R	Foraminifers
	Siliceous
T	Diatom
	Radiolarian
P	Sillicoflagellate
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
	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
P	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
R	Calcite
T	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

Micrics → Allanite

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/18/18

Expedition: 375 Observer: OLIV/LA

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

Sediment Name: clayey silt with volcaniclastics

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
V			

Select one and check.

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

Select one and check.

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

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

[1] List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: zircon, hornblende, allanite

* 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: OCIV / LG

Site: 1518 Hole: F Core: 5R Sect.: 2A Interval: 100

Sediment Name: 25 silty clay nannofossil rich

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
V			

Select one and check.

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

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
P	Quartz
P	Feldspars
	Clay minerals
P	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
P	Siltstone/sandstone
	Limestone
T	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Vitric fragments
P	Clear glass
R	Colored glass
	Pumice
	Volcanic lithics
P	Felsitic
	Microlitc
	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
	Sillicoflagellate
P	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Other carbonate allochems
	Peloid
	Intraclast
	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nannos)

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

[1] List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/18/18

Expedition: 375 Observer: Noda/[illegible]

Site: 157 Hole: Core: 5R Sect.: 3A Interval: 62 cm

Sediment Name: [illegible]tic silty clay with nannofossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				0	20	80

Select one and check.

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

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

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
	Zeolites
R	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, or. 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: 375 Observer: HASHI/K

Site: 1518 Hole: F Core: 6R Sect.: 2 Interval: 65

Sediment Name: silty clay with nannofossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				0	20	80

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

T/R/P/C/A/D/M	Composition
	Pelagic Grains
	Calcareous
C	Nannofossils
T	Foraminifers
	Siliceous
	Diatom
T	Radiolarian
	Sillicoflagellate
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: HASHI/Lm

Site: 1518 Hole: F Core: 4R Sect.: 2 Interval: 103

Sediment Name: volcaniclastic sandy silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				30	50	20

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
	Vitric fragments
A	Clear glass
	Colored glass
	Pumice
	Volcanic lithics
C	Felsitic
	Microlitc
	Lathwork
T	Altered volcanic(palagonite)

T/R/P/C/A/D/M	Composition
	Pelagic Grains
	Calcareous
P	Nannofossils
T	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
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]
R	Micas (biotite, musc, chl)[1]
R	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Authigenic components
C	Pyrite (framboids)
	Pyrite (euhedra)
	Pyrite (grain coating)
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: 19/3/2018

Expedition: 375 Observer: HASHI

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

Sediment Name: silty clay with nanno

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and check.

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

Select one and check.

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):

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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
	Opaque Grain
	Other (specify):

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: I+A SH+I

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

Sediment Name: silty nannof Clay w/ th nannos

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

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

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):

[1] List under remarks if possible

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

Expedition: 375

Observer: HASHI

Site: 1518 Hole: F Core: 8R Sect.: 3 Interval: 16

Sediment Name: Silty Clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				0	25	75

Select one and check.

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

[1] List under remarks if possible

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

Expedition: 375 Observer: OLIV/Ch

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

Sediment Name: Silty clay with nannos

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
V			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				0	15	85

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
T	Colored glass
C	Volcanic lithics
T	Altered volcanic(e.g. palagonite)
	Authigenic components
R	Pyrite
	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
C	Nannofossils
R	Foraminifers
	Siliceous
T	Diatom
T	Radiolarian
	Sillicoflagellate
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

Abundances like in 375 Methods-C-Table 2

T/R/P/C/A/D/M	Composition
	Minor Mineral Grain Types
	Olivine
T	Pyroxene
	Amphibole
T	Micas
T	Chlorite
T	Zircon
	Apatite
R	Opaque Grain
	Glauconite
	~~Opaque Grain~~
	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: 19/3/18

Expedition: 375

Observer: OLIV

Site: 1518 Hole: F Core: 9R Sect.: 5A Interval: 28

Sediment Name: Sandy silt with volcaniclastic

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
V			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				25	70	5

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
C	Quartz
C	Feldspars
	Clay minerals
P	**Lithic Grains**
	Sedimentary Lithics
	Chert
	Mudstone
C	Siltstone/sandstone
	Limestone
	Metamorphic lithic
R	Plutonic lithic
C	**Volcaniclastic 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):

[1] List under remarks if possible

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

Expedition: 375 Observer: Noda/Un

Site: 1518 Hole: F ~~10R~~ Core: 10R ~~3A~~ Sect.: 3A Interval: 17 cm

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	
X			

Select one and check.

Percent Texture		
Sand	Silt	Clay
2	38	60

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

[1] List under remarks if possible

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

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):

[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
	Sillicoflagellate
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

Abundances like in 375 Methods-C-Table 2

T/R/P/C/A/D/M	Composition
	Minor Mineral Grain Types
	Olivine
	Pyroxene
	Amphibole
T	Micas
T	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glauconite
	Opaque Grain
	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: 2.3.18

Expedition: 375

Observer: Ru

Site: 1518 Hole: F Core: 10 Sect.: 3 Interval: 42

Sediment Name: silty clay with nannofossils

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
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):

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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):

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/Lu

Site: 1518 Hole: F Core: 11R Sect.: 2A Interval: 48

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				10	25	65

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

[1] List under remarks if possible

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

Expedition: 375 Observer: Nodu

Site: 1518 Hole: F Core: 11R Sect.: 3A Interval: 18 cm

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

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

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
C	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
P	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

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

Expedition: 375 Observer: Noda/Lu

Site: 1518 Hole: F Core: 12R Sect.: 1A Interval: 75 cm

Sediment Name: volcaniclastic sandy silt

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
				20	70	10

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
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):

[1] List under remarks if possible

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

Expedition: 375 Observer: Noda, H

Site: 1518 Hole: F Core: 12R Sect.: 2A Interval: 28 cm

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				0	20	80

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
C	Quartz
C	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
P	Altered volcanic(e.g. palagonite)
	Authigenic components
R	Pyrite
C	Calcite
	Dolomite
	Zeolites
P	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

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

Expedition: 375 Observer: Noda/Hu

Site: 1518 Hole: F Core: 12R Sect.: 3A Interval: 59 cm

Sediment Name: silty clay with nannofossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
X				0	20	80

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
C	Quartz
	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
T	Chert
P	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
P	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
A	Nannofossils
P	Foraminifers
	Siliceous
R	Diatom
	Radiolarian
	Sillicoflagellate
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

Abundances like in 375 Methods-C-Table 2

T/R/P/C/A/D/M	Composition
	Minor Mineral Grain Types
	Olivine
	Pyroxene
	Amphibole
T	Micas
T	Chlorite
	Zircon
T	Apatite
	Opaque Grain
T	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: 20/3/2018

Expedition: 375

Observer: HASHI

Site: 1518 Hole: F Core: 13R Sect.: 1 Interval: 35

Sediment Name: Silty Clay with nannofossil

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):

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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):

Remarks: partly recrystallized nannos

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 20/3/2018

Expedition: 325 Observer: HASHI

Site: 1518 Hole: F Core: 13R Sect.: 1 Interval: 60

Sediment Name: Clayey Silt with volcanoclastics

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and check.

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

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
	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):

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

T/R/P/C/A/D/M	Composition
	Minor Mineral Grain Types
T	Olivine
T	Pyroxene
T	Amphibole
T	Micas
P	Chlorite
	Zircon
T	Apatite
	Opaque Grain
	Glauconite
	Opaque Grain
	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: 20/3/2018

Expedition: 375 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
v			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				10	50	40

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

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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

Remarks: calcit shells or mosaky recrystallized/ 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: Ru

Site: 1518 Hole: P Core: 13 Sect.: 1 Interval: 114

Sediment Name: oozy ooze

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

[1] List under remarks if possible

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

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
	Apatite
	Opaque Grain
	Glauconite
	Opaque Grain
	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: 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
✓			

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
C	Quartz
P	Feldspars
P	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
P	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):

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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
	Opaque Grain
	Other (specify):

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: 20/3/2018

Expedition: 375 Observer: HASHI

Site: 1512 Hole: F Core: 13R Sect.: 2 Interval: 25

Sediment Name: tuffaceous Ooze

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and check.

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

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
T	Pyrite
T	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
D	Nannofossils
T	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Minor Other Grain Types
	Phosphate (bones, teeth, etc)
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Other carbonate allochems
	Peloid
	Intraclast

Abundances like in 375 Methods-C-Table 2

T/R/P/C/A/D/M	Composition
	Minor Mineral Grain Types
	Olivine
	Pyroxene
	Amphibole
T	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
T	Glauconite
	Opaque Grain
	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: 20/3/2018

Expedition: 325 Observer: HASHI

Site: 1518 Hole: F Core: 14R Sect.: 1 Interval: 51

Sediment Name: nannofossil rich Silty Clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and check.

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

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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):

Remarks: nannofossils recrystallized to calcite (?)

* 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/Cy

Site: 1518 Hole: F Core: 14R Sect.: 2 Interval: 36

Sediment Name: Pyrite-rich Silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				5	70	25

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

[1] List under remarks if possible

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

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
	Apatite
	Opaque Grain
	Glauconite
	Opaque Grain
	Other (specify):
T	Hb

Remarks:

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

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375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 20.3.18

Expedition: 375

Observer: RM

Site: 1518 Hole: F Core: 14 Sect.: 1 Interval: 135

Sediment Name: clayey silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

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

Select one and check.

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

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

T/R/P/C/A/D/M	Composition
	Minor Mineral Grain Types
	Olivine
T P	Pyroxene
P	Amphibole
	Micas
P	Chlorite
T	Zircon
	Apatite
	Opaque Grain
	Glauconite
	Opaque Grain
	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: 20.3.18

Expedition: 375

Observer: Ru

Site: 1518 Hole: F Core: 14 Sect.: 1 Interval: 136

Sediment Name: nannofossil/rich silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				5	20	75

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
P	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
C	Calcite
	Dolomite
P	Zeolites
P	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
	Diatom
	Radiolarian
	Sillicoflagellate
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

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
T	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glauconite
	Opaque Grain
	Other (specify):

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: Ma

Site: 1518 Hole: F Core: 14 Sect.: 2 Interval: 68

Sediment Name: silt/nannofossil-rich clayey silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

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

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
	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):

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

T/R/P/C/A/D/M	Composition
	Minor Mineral Grain Types
	Olivine
	Pyroxene
P	Amphibole
P	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
P	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: 20.3.18

Expedition: 375 Observer: Mu

Site: 1517 Hole: F Core: 15 Sect.: 1 Interval: 69

Sediment Name: nannofossil-rich Silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

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

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):

[1] List under remarks if possible

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

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
T	Chlorite
	Zircon
	Apatite
	Opaque Grain
T	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: 20.3.18

Expedition: 375

Observer: RM

Site: U1518 Hole: F Core: 14 Sect.: 3 Interval: 42

Sediment Name: volcaniclastic clayey silt with

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

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

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):

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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):

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: RM

Site: 1578 Hole: F Core: 16 Sect.: 4 Interval: 2 cm

Sediment Name: nannofossil-rich silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

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

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
P	Transparent glass
+	Colored glass
	Volcanic lithics
T	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
P	Calcite
R	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
	Sillicoflagellate
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

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
T	Micas
	Chlorite
	Zircon
T	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: 22.3.18

Expedition: 375 Observer: RH

Site: 1518 Hole: F Core: 76 Sect.: 4 Interval: 28

Sediment Name: Volcaniclastic Sandy Silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				45	55	

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
C	Quartz
A	Feldspars
A	Clay minerals
	Lithic Grains
	Sedimentary Lithics
T	Chert
	Mudstone
C	Siltstone/sandstone
	Limestone
P	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
C	Transparent glass
	Colored glass
A	Volcanic lithics
A	Altered volcanic(e.g. palagonite)
	Authigenic components
P	Pyrite
P	Calcite
T	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
C	Nannofossils
P	Foraminifers
	Siliceous
T	Diatom
	Radiolarian
	Sillicoflagellate
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

Abundances like in 375 Methods-C-Table 2

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

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: 21 / 3 / 2017

Expedition: 375

Observer: KH

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

Sediment Name: Silty ooze

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
V			

Select one and check.

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

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):

[1] List under remarks if possible

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

Remarks: 2 nannos 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: 375 Observer: kn

Site: 1518 Hole: F Core: 12R Sect.: 3 Interval: 39

Sediment Name: nannofossil-rich sandy silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
C			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				20	60	20

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
C	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
R	Transparent glass
T	Colored glass
R	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
P	Pyrite
C	Calcite
	Dolomite
	Zeolites
	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
	Diatom
	Radiolarian
	Sillicoflagellate
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
T	Pyroxene
R	Amphibole
P	Micas
P	Chlorite
P	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: 21/3/2018

Expedition: 375 Observer: ka

Site: 1518 Hole: F Core: 12R Sect.: 4 Interval: 50

Sediment Name: Silty Clay with nannofossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				5	20	75

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
R	Quartz
C	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
C	Siltstone/sandstone
	Limestone
T	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
R	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):

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

T/R/P/C/A/D/M	Composition
	Minor Mineral Grain Types
	Olivine
	Pyroxene
T	Amphibole
R	Micas
R	Chlorite
	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: 21/3/2018

Expedition: 375 Observer: Ku

Site: 1518 Hole: F Core: 17R Sect.: 4 Interval: 81

Sediment Name: Clayey Silt with nannofossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
V			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				20	50	30

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

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

T/R/P/C/A/D/M	Composition
	Minor Mineral Grain Types
	Olivine
	Pyroxene
	Amphibole
T	Micas
P	Chlorite
T	Zircon
	Apatite
	Opaque Grain
P	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: 23.3.18

Expedition: 375 Observer: Ru

Site: 1518 Hole: F Core: 17 Sect.: 5 Interval: 45

Sediment Name: silty clay with nannofossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

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

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):

[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
	Sillicoflagellate
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

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

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: IM

Site: 375 Hole: F Core: 17 Sect.: 5 Interval: 48

Sediment Name: muddy ooze

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
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):

[1] List under remarks if possible

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

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

Remarks: Almost

* 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

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				5	75	20

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
P	Mudstone
	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
T	Zeolites
T	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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

Remarks: fine-sand-size glasses, vf.sand-f.sand 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: 18R Sect.: 2A Interval: 38 cm

Sediment Name: silty clay / nannofossil-rich

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

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

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):

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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):

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/Ku

Site: 1518 Hole: F Core: 18R Sect.: 2A Interval: 106

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
				0	20	80

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):

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

T/R/P/C/A/D/M	Composition
	Minor Mineral Grain Types
	Olivine
	Pyroxene
	Amphibole
T	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
T	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: 3/21/18

Expedition: 375 Observer: OLIV/RABIL

Site: 1518 Hole: F Core: 19R Sect.: 1A Interval: 30

Sediment Name: Nannofossils rich clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
V			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				1	9	90

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
C	Quartz
C	Feldspars
	Clay minerals
R	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
PP	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
A	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
D	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
	Micas
T	Chlorite
T	Zircon
	Apatite
P	Opaque Grain
	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: 21/3/18

Expedition: 375 Observer: OLIV / RABI

Site: 1518 Hole: F Core: 19 Sect.: 3A Interval: 9cm

Sediment Name: Silty clay w[illegible]

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
V			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
X				5	25	70

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
C	Quartz
C	Feldspars
	Clay minerals
	Lithic Grains
P	Sedimentary Lithics
	Chert
	Mudstone
P	Siltstone/sandstone
	Limestone
T	Metamorphic lithic
T	Plutonic lithic
	Volcaniclastic Grains
P	Transparent glass
	Colored glass
P	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
R	Pyrite
R	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
R	Nannofossils
T	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
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

Abundances like in 375 Methods-C-Table 2

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
T	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: 3/21/18

Expedition: 375 Observer: OLIV/RABY/CA

Site: U1518 Hole: F Core: 19R Sect.: 3A Interval: 36cm

Sediment Name: [illegible] with clayey silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
V			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				20	50	30

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
C	Quartz
C	Feldspars
	Clay minerals
A	**Lithic Grains**
	Sedimentary Lithics
	Chert
C	Mudstone
	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
P	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

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

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
R	Zircon
	Apatite
T	Opaque Grain
	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: 3/21/18

Expedition: 375 Observer: OLIV/Mu

Site: 1518 Hole: F Core: 19R Sect.: 3A Interval: 39

Sediment Name: volcaniclastic sandy-silt with volcaniclastic

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
V			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				30	50	20

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
C	Quartz
C	Feldspars
C	Clay minerals
C	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):

[1] List under remarks if possible

T/R/P/C/A/D/M	Composition
	Pelagic Grains
	Calcareous
C	Nannofossils
T	Foraminifers
	Siliceous
T	Diatom
	Radiolarian
	Sillicoflagellate
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
R	Amphibole
T	Micas
T	Chlorite
	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: 21.3

Expedition: 375 Observer: Ra

Site: 1518 Hole: F Core: 20 Sect.: 1 Interval: 24

Sediment Name: nannofossil-rich silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

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

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):

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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):

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: Ra

Site: 1518 Hole: A Core: 20 Sect.: 1 Interval: 43

Sediment Name: nannofossil-rich Silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

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

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
R	Siltstone/sandstone
	Limestone
T	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
R	Transparent glass
	Colored glass
R	Volcanic lithics
T	Altered volcanic(e.g. palagonite)
	Authigenic components
R	Pyrite
C	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
T	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Minor Other Grain Types
	Phosphate (bones, teeth, etc)
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Other carbonate allochems
	Peloid
	Intraclast

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
	Apatite
	Opaque Grain
	Glauconite
	Other (specify):

Remarks: at the border to only with nannofossils

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 21.3.

Expedition: 375 Observer: Ru

Site: 1518 Hole: F Core: 20R Sect.: 3 Interval: 106

Sediment Name: sandy silt with volcaniclastic

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				40	50	10

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):

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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):

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 213

Expedition: 378

Observer: Ren

Site: 1518 Hole: F Core: 20 Sect.: 3 Interval: 108

Sediment Name: Nannofossil-rich Silty clay V

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				5	20	75

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
R	Transparent glass
T	Colored glass
T	Volcanic lithics
T	Altered volcanic(e.g. palagonite)
	Authigenic components
R	Pyrite
C	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
A	Nannofossils
R	Foraminifers
	Siliceous
T	Diatom
	Radiolarian
	Sillicoflagellate
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

Abundances like in 375 Methods-C-Table 2

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):

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: 375

Observer: Ik

Site: 1518 Hole: F Core: 20 Sect.: 3 Interval: 112

Sediment Name: nannofossil-rich silty clay (

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

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

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):

[1] List under remarks if possible

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

Remarks: most silty grains on slide but minor.

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 21.3.19

Expedition: 375 Observer: ICA

Site: 1518 Hole: F Core: 01R Sect.: 1 Interval: 44

Sediment Name: silty clay with nannofossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

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

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):

[1] List under remarks if possible

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

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
P	Micas
R	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: 21.3.18

Expedition: 375

Observer: Ma

Site: 7518 Hole: F Core: 21 Sect.: 1 Interval: 55

Sediment Name: maddy ooze

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				5	20	75

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
P	Quartz
C	Feldspars
D	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
P	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
P	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):

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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

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: 21.3.19

Expedition: 375

Observer: RG

Site: 1518 Hole: F Core: 81 Sect.: 3 Interval: 31

Sediment Name: silty clay with nannofossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

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

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
T	Transparent glass
	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):

[1] List under remarks if possible

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

Remarks: Parts of the slide have more silt + Actinolith

* 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: RG

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

Sediment Name: volcaniclastic Sandy silt with fossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				25	60	15

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
	Zeolites
P	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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):

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 Ikuo

Site: 1518 Hole: F Core: 22R Sect.: 1A Interval: 68 cm

Sediment Name: sandy silt with volcaniclastic

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				30	60	10

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
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):

[1] List under remarks if possible

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

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
T	Chlorite
R	Zircon
	Apatite
T	Opaque Grain
P	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: Noda/Ku

Site: 1518 Hole: F Core: 22R Sect.: 1A Interval: 80 cm

Sediment Name: muddy nannofossil ooze

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

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

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
T	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
	Sillicoflagellate
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 Actinolite

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3/22/2018

Expedition: 375 Observer: Noda/Ik

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

Sediment Name: silty clay with nannofossil

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
	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):

[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
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
	Minor Other Grain Types
	Phosphate (bones, teeth, etc)
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Other carbonate allochems
	Peloid
	Intraclast

Abundances like in 375 Methods-C-Table 2

T/R/P/C/A/D/M	Composition
	Minor Mineral Grain Types
	Olivine
	Pyroxene
T	Amphibole Actinolite
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: Nodgh

Site: 1518 Hole: F Core: 23R Sect.: 1A Interval: 54

Sediment Name: a volcaniclastics sandy silt

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				30	50	20

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
R	Plutonic lithic
	Volcaniclastic Grains
C	Transparent glass
R	Colored glass
C	Volcanic lithics
R	Altered volcanic(e.g. palagonite)
	Authigenic components
R	Pyrite
P	Calcite
T	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
C	Nannofossils
P	Foraminifers
	Siliceous
T	Diatom
	Radiolarian
	Sillicoflagellate
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
P	Pyroxene
R	Amphibole
T	Micas
T	Chlorite
T	Zircon
	Apatite
	Opaque Grain
P	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: 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/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):

[1] List under remarks if possible

T/R/P/C/A/D/M	Composition
	Pelagic Grains
	Calcareous
M	Nannofossils
P	Foraminifers
	Siliceous
R	Diatom
	Radiolarian
	Sillicoflagellate
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
T	Amphibole
T	Micas
	Chlorite
	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: 3/22/18

Expedition: 375 Observer: OLIV /h

Site: 1518 Hole: F Core: 24R Sect.: 2A Interval: 65

Sediment Name: Nannofossil rich silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
V			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				1	30	69

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
C	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):

[1] List under remarks if possible

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

Expedition: 375 Observer: OLIV/LA

Site: 1518 Hole: F Core: 25R Sect.: 1A Interval: 55

Sediment Name: Silty clay with nannofossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
V			

Select one and check.

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

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
P	Quartz
P	Feldspars
	Clay minerals
P	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
P	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
C	Volcaniclastic Grains
P	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):

[1] List under remarks if possible

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

Expedition: 375 Observer: OLIV/LA

Site: 1518 Hole: F Core: 26R Sect.: 2A Interval: 109

Sediment Name: silty clay with nannofossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
V			

Select one and check.

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

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
C	Quartz
C	Feldspars
	Clay minerals
C	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
C	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
P	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):

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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):

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/LH

Site: 1518 Hole: F Core: 27R Sect.: 1A Interval: 37

Sediment Name: clay-nannofossil-rich silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
V			

Select one and check.

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

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
	Mudstone
R	Siltstone/sandstone
	Limestone
	Metamorphic lithic
T	Plutonic lithic
P	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):

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

T/R/P/C/A/D/M	Composition
	Minor Mineral Grain Types
T	Olivine
	Pyroxene
T	Amphibole
T	Micas
T	Chlorite
T	Zircon
	Apatite
R	Opaque Grain
T	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: 22/3/18

Expedition: 375 Observer: OLIV/M

Site: 1518 Hole: F Core: 27R Sect.: 2A Interval: 84

Sediment Name: volcaniclastic sandy silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
V			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				30	50	20

Select one and check.

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

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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

Remarks: minor parts of the slide are more clayey

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

nice Minerals 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 (tuff

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				30	50	~~20~~

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):

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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

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: 22 3 18

Expedition: 375 Observer: Ru

Site: 1518 Hole: F Core: 08 Sect.: 3 Interval: 118

Sediment Name: volcaniclastic sandy silt

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				35	60	5

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):

[1] List under remarks if possible

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

Expedition: 375 Observer: Noda

Site: 1518 Hole: F Core: 28R Sect.: 4A Interval: 9cm

Sediment Name: silty clay with nannofossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				0	30	70

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

[1] List under remarks if possible

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

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: clay with nannofossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				0	15	85

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):

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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):

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 lh

Site: 1518 Hole: F Core: 28R Sect.: 5A Interval: 17 cm

Sediment Name: silty clay to volcaniclastic silt

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
				0	~~40~~ 60	~~60~~ 40

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
C	Quartz
C	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
C	Altered volcanic(e.g. palagonite)
	Authigenic components
P	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
C	Nannofossils
P	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
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

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 hornblende, Actinolite
T	Micas
T	Chlorite
T	Zircon
	Apatite
	Opaque Grain
	Glauconite
	Other (specify):

Remarks: some cores 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: 52 cm

Sediment Name: [illegible] silty clay with nannofossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				0	30	70

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
C	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):

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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):

Remarks: ash-rich with vol volcanic glass shards

* 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/Li

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
X			

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

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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):

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: 125 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	15	85

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
	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
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
D	Nannofossils
	Foraminifers
	Siliceous
R	Diatom
	Radiolarian
	Sillicoflagellate
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

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

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 (K

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
X			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
	X			20	70	10

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
	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):

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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

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 Ik

Site: 1518 Hole: F Core: 30R Sect.: 4A Interval: 65 cm

Sediment Name: pyrite silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

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

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
R	Mudstone
R	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
D	Pyrite
	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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

Remarks: clay-sized pyrite (< 4 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: 30R Sect.: 4A Interval: 121 cm

Sediment Name: mud/clay nanno/fossil ooze

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				0	20	80

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

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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

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 nannofossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				0	35	65

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

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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):

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
X			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
	X			20	60	20

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
P	Quartz
F	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
C	Volcanic lithics
R	Altered volcanic(e.g. palagonite)
	Authigenic components
R	Pyrite
R	Calcite
R	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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):
	Manganese

Remarks: ~200 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: nannofossil-rich silty clay with

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
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):

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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):

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 nannofossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				0	35	65

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
	Colored glass
P	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
P	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
C	Nannofossils
P	Foraminifers
	Siliceous
R	Diatom
	Radiolarian
	Sillicoflagellate
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

Abundances like in 375 Methods-C-Table 2

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

Expedition: 375 Observer: Noda

Site: 1518 Hole: F Core: 32R Sect.: 7A Interval: 36 cm

Sediment Name: volcaniclastic silt

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
				10	60	30

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):

[1] List under remarks if possible

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

Abundances like in 375 Methods-C-Table 2

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):

Remarks:

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