Sediment Smear Slide / Thin Section Description Sheet

Date: 4/3/18

Expedition: 375 Observer: OLIV / NODA

Site: U1520 Hole: C Core: 2R Sect.: 1A Interval: 8

Sediment Name: Calcareous mudstone - marl

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	1	98

Select one and check.

Percent	Composition
	Major Siliciclastic Grain Types
T	Quartz
T	Feldspars
	Clay minerals
	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
T	Altered volcanic(palagonite)

Percent	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
	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)

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

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: Apatite, names are recrystalized

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 3. Apr. 2018

Expedition: 375 Observer: NODA/OLIVA

Site: U1520 Hole: C Core: 2R Sect.: 1A Interval: 49cm

Sediment Name: marl 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
				1	70	29

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
R	Quartz
R	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
R	Transparent glass
R	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
D	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
T	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
	Amphibole
	Micas
	Chlorite
	Zircon
	Apatite
R	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 Apr 2018

Expedition: 375 Observer: NODA/OLIV/CA

Site: 1520 Hole: C Core: 2R Sect.: 1A Interval: 80 cm

Sediment Name: Tuff (calcarious mud) Authigenic

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	60	20

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
T	Quartz
R	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
R	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
D	Transparent glass
	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
A	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
C	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
R	Amphibole
	Micas
	Chlorite
	Zircon
	Apatite
R	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: 4.4.19

Expedition: 375

Observer: IKu

Site: U1520 Hole: C Core: 2R Sect.: 1 Interval: 104

Sediment Name: Tuff (with calcareous mud)

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	50	40

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
T	Quartz
R	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
R	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
D	Transparent glass
R	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
A	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
	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
	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: 4.4.18

Expedition: 375

Observer: RG

Site: 1520 Hole: C Core: 2R Sect.: 2 Interval: 33

Sediment Name: 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
T	Quartz
R	Feldspars
A	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
R	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
D	Transparent glass
T	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
	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
F	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:

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

Sediment Smear Slide / Thin Section Description Sheet

Date: 4/3/18

Expedition: 375

Observer: OLIV IK

Site: U1520 Hole: C Core: 2R Sect.: 2A Interval: 36

Sediment Name: marl with volcaniclastic calcareous

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.

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

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

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

[1] List under remarks if possible

Fill percentage (Total must be 100).

Remarks: fossils recristalized by calcite ; Titanite

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 4.4.18

Expedition: 375 Observer: IH

Site: U1520 Hole: C Core: 3R Sect.: 1 Interval: 32

Sediment Name: 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
					80	20

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
R	Quartz
F	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
R	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
D	Transparent glass
T	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
A	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
F	Nannofossils
F	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
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: 4.4.18

Expedition: 375

Observer: IM

Site: 1520 Hole: C Core: 3 Sect.: 1 Interval: 36

Sediment Name: calcareous mud - marl

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	50	40

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
R	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
C	Transparent glass
	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
D	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
P	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
T	Pyroxene
	Amphibole
	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glauconite
	Other (specify):

Remarks: recrystallized ramos

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 4.4.18

Expedition: 375

Observer: LM

Site: U1520 Hole: C Core: 2R Sect.: 1 Interval: 80

Sediment Name: clayey siltstone - marl

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	50	40

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
T	Chert
	Mudstone
C	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
C	Transparent glass
CR	Colored glass
VR	Volcanic lithics
R	Altered volcanic(e.g. palagonite)
	Authigenic components
PC	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
T	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
R	Pyroxene
	Amphibole
	Micas
	Chlorite
	Zircon
T	Apatite
C	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: 4.4.18

Expedition: 375

Observer: Mn

Site: 1520 Hole: C Core: 3R Sect.: 2 Interval: 119

Sediment Name: Tuff with calcareous mud

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	50	40

Select one and check.

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

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 5.4

Expedition: 375

Observer: Ku

Site: 1520 Hole: ~~1520~~C Core: 4 Sect.: 1 Interval: 1

Sediment Name: Tuff

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	60	20

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
R	Quartz
R	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
R	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
D	Transparent glass
T	Colored glass
	Volcanic lithics
T	Altered volcanic(e.g. palagonite)
	Authigenic components
Tr	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
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
	Pyroxene
R	Amphibole
	Micas
	Chlorite
	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: 4 Apr. 2018

Expedition: 375 Observer: Noda

Site: 1520 Hole: C Core: 4R Sect.: 1A Interval: 24

Sediment Name: calcareous mudstone with volcaniclastics
Marl

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
				5	20	75

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
T	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
C	Transparent glass
P	Colored glass
	Volcanic lithics
T	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
D	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
	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
	Amphibole
	Micas
	Chlorite
	Zircon
	Apatite
R	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: 4.4.18

Expedition: 375

Observer: RM

Site: 1520 Hole: C Core: 4R Sect.: 1 Interval: 55

Sediment Name: 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
				20	60	20

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
T	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
R	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
D	Transparent glass
T	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
T	Pyrite
	Calcite
A	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
	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
	Amphibole
	Micas
	Chlorite
	Zircon
	Apatite
R	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: 4.4.19

Expedition: 375 Observer: RM

Site: 1520 Hole: C Core: 4R Sect.: 2 Interval: 66

Sediment Name: 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
				10	70	20

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
R	Quartz
R	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
R	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
M	Transparent glass
	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
	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
P	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
R	Amphibole
R	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: 4.9.17

Expedition: 375 Observer: Huf

Site: 1520 Hole: C Core: 4 Sect.: 5 Interval: 53

Sediment Name: T+F

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

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

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
T	Quartz
P	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
T	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
M	Transparent glass
T	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
T	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
	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
R	Pyroxene
R	Amphibole
P	Micas
	Chlorite
	Zircon
T	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: 4.4.18

Expedition: 375

Observer: Rodt

Site: 1520 Hole: C Core: 4 Sect.: 5 Interval: 109

Sediment Name: 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
				20	70	10

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
T	Quartz
P	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
P	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
C	Transparent glass
P	Colored glass
P	Volcanic lithics
C	Altered volcanic(e.g. palagonite)
	Authigenic components
R	Pyrite
P	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
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
P	Pyroxene
	Amphibole
	Micas
	Chlorite
	Zircon
T	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: 4.4.18

Expedition: 375 Observer: Lech

Site: 1520 Hole: C Core: 4 Sect.: CC Interval: 19

Sediment Name: 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
				10	70	20

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
T	Quartz
R	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
T	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
M	Transparent glass
	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
T	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
C	Nannofossils
T	Foraminifers
	Siliceous
	Diatom
T	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
	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: 4.9.18

Expedition: 375

Observer: IKa

Site: 1520 Hole: C Core: 5 Sect.: 1 Interval: 63

Sediment Name: calcareous mudstone (mat'l) with ultramicrofossils

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	70	20

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
A	Transparent glass
	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
P	Pyrite
D	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
	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:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 4 Apr. 2018

Expedition: 375 Observer: Noda/Lu

Site: 1520 Hole: C Core: 5R Sect.: 1A Interval: 84.

Sediment Name: clayey siltstone - marl volcaniclastic

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and check.

Granular Sediment			Other material
Siliciclastic	Volcaniclastic	Pelagic	

Select one and check.

Percent Texture		
Sand	Silt	Clay
3	70	27

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
P	Quartz
D	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
T	Chert
	Mudstone
P	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
C	Transparent glass
R	Colored glass
C	Volcanic lithics
P	Altered volcanic(e.g. palagonite)
	Authigenic components
T	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
P	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
T	Micas
	Chlorite
	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: 4.4.

Expedition: 375 Observer: Ilg

Site: U320 Hole: C Core: 5 Sect.: 2 Interval: 121

Sediment Name: 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
				60	30	10

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
T	Quartz
R	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
T	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
D	Transparent glass
T	Colored glass
	Volcanic lithics
T	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
A	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
	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
	Chlorite
	Zircon
	Apatite
R	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: 4 Apr. 2018

Expedition: 375 Observer: Noda / Lu

Site: 1520 Hole: C Core: 5R Sect.: 4A Interval: 84

Sediment Name: calcareous mudstone with volcaniclastics marl

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
T	Quartz
T	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
C	Transparent glass
T	Colored glass
	Volcanic lithics
T	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
D	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
P	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
	Amphibole
	Micas
	Chlorite
	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: 4 Apr. 2018

Expedition: 375 Observer: Noda/Hu

Site: 1520 Hole: C Core: 5R Sect.: 4A Interval: 89

Sediment Name: Calcareous mudstone
marl

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
T	Quartz
T	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
P	Transparent glass
T	Colored glass
	Volcanic lithics
T	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
D	Calcite
	Dolomite
—	Zeolites
I	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
	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
	Micas
	Chlorite
	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: 4/4/18

Expedition: 375 Observer: OLIV KL

Site: U1520 Hole: C Core: 6R Sect.: 1A Interval: 20

Sediment Name: Mudstone with nannofossils marl

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
				2.5	7.5	90

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
B	Quartz
T	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
T	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
C	Transparent glass
T	Colored glass
T	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
	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
	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
T	Amphibole
	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
	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: 4/4/18

Expedition: 375 Observer: OLIV / LM

Site: U1520 Hole: C Core: 6R Sect.: 2A Interval: 114

Sediment Name: Mudstone - Marl 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
				5	15	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
C	Colored glass
C	Volcanic lithics
P	Altered volcanic(e.g. palagonite)
	Authigenic components
	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
	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
	Amphibole
	Micas
	Chlorite
	Zircon
	Apatite
T	Opaque Grain
	Glauconite
	Other (specify):

Remarks: aegirine - augite

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 4/4/18

Expedition: 375 Observer: OLIV / KM

Site: U1520 Hole: C Core: 6R Sect.: 4A Interval: 75

Sediment Name: marl
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
				5	20	75

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
C	Quartz
C	Feldspars
T	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
P	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
P	Transparent glass
C	Colored glass
C	Volcanic lithics
C	Altered volcanic(e.g. palagonite)
	Authigenic components
P	Pyrite
	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
	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
R	Pyroxene
T	Amphibole
	Micas
	Chlorite
	Zircon
	Apatite
P	Opaque Grain
T	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: 4/4/18

Expedition: 375 Observer: OCIV/LL

Site: U1520 Hole: C Core: 6R Sect.: 4A Interval: 130

Sediment Name: ~~Mudstone~~ with volcaniclastic marl

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
D	Quartz
R	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
T	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
P	Transparent glass
C	Colored glass
P	Volcanic lithics
P	Altered volcanic(e.g. palagonite)
	Authigenic components
T	Pyrite
R	Calcite
	Dolomite
R?	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
	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
	Amphibole
	Micas
	Chlorite
	Zircon
T	Apatite
R	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: 4.4.18

Expedition: 375 Observer: RM

Site: 1520 Hole: C Core: 7R Sect.: 1 Interval: 40

Sediment Name: 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
					90	10

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
T	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
M	Transparent glass
T	Colored glass
	Volcanic lithics
T	Altered volcanic(e.g. palagonite)
	Authigenic components
T	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
	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
R	Amphibole
R	Micas
	Chlorite
	Zircon
	Apatite
R	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: 4 Apr. 2018

Expedition: 375 Observer: NODA

Site: 1520 Hole: C Core: 7R Sect.: 1A Interval: 113

Sediment Name: volcaniclastic clayey siltstone with nanofossils (mudstone) marl

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
					75	25

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
P	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
T	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
C	Transparent glass
P	Colored glass
	Volcanic lithics
C	Altered ~~volcanic~~(e.g. palagonite)
	glasses
	Authigenic components
	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
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
TR	Pyroxene
	Amphibole
	Micas
	Chlorite
	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: 4 Apr. 2018

Expedition: 375 Observer: NOA / Ln

Site: 1520 Hole: C Core: 7R Sect.: 2A Interval: 80

Sediment Name: nannofossil mudstone (calcareous mudstone)

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
	Quartz
	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
Q	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
	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
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: OLIVR 4/4/18

Expedition: 375 Observer:

Site: U1520 Hole: C Core: 8R Sect.: 1A Interval: 90

Sediment Name: calcareous mudstone / marl

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	99

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
R	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
T	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
R	Transparent glass
	Colored glass
	Volcanic lithics
T	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
A	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
	Micas
	Chlorite
	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: 5.4.18

Expedition: 375

Observer: IKu

Site: 1520 Hole: C Core: 8R Sect.: 5 Interval: 73

Sediment Name: mud-rich taff 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
				30	50	20

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
T	Quartz
P	Feldspars
	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
P	Altered volcanic(e.g. palagonite)
	Authigenic components
T	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
	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
R	Pyroxene
R	Amphibole
	Micas
	Chlorite
	Zircon
	Apatite
R	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: 4.4.16

Expedition: 375

Observer: IM

Site: 1520 Hole: C Core: 9 Sect.: 2 Interval: 16

Sediment Name: 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
				10	70	20

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
R	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
T	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
D	Transparent glass
	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
	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
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
R	Pyroxene
T	Amphibole
	Micas
	Chlorite
T	Zircon
	Apatite
T	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: 5.4.18

Expedition: 375 Observer: RM

Site: 1520 Hole: C Core: 9R Sect.: 2 Interval: 80

Sediment Name: calcareous mudstone (marl)

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
	Quartz
T	Feldspars
A	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	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
D	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
	Amphibole
	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glauconite
	Other (specify):

Remarks: 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: 5.4.19

Expedition: 375 Observer: RM

Site: 1520 Hole: C Core: 9R Sect.: 2 Interval: 106

Sediment Name: 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
					90	10

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
T	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
D	Transparent glass
R	Colored glass
	Volcanic lithics
T	Altered volcanic(e.g. palagonite)
	Authigenic components
	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
	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
P	Pyroxene
	Amphibole
	Micas
	Chlorite
	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: 5.4.18

Expedition: 375

Observer: IL

Site: 1520 Hole: C Core: 9R Sect.: 4 Interval: 62

Sediment Name: dc vitric/red tuff? → See thin section

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

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

Select one and check.

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

[1] List under remarks if possible

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

Remarks: M = devitrified glass? (brown transparent glass?)
Mineral assemblage A magmatic

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 5.4.18

Expedition: 375 Observer: RH

Site: 1500 Hole: C Core: 9R Sect.: 4 Interval: 70

Sediment Name: devitrified tuff? - 2 See tuff section

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	30	30

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
P	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
R	Transparent glass
	Colored glass
	Volcanic lithics
C	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
	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
P	Nannofossils
C	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
R	Amphibole
C	Micas
	Chlorite
	Zircon
	Apatite
R	Opaque Grain
	Glauconite
	Other (specify):

Remarks: R = devitrified glass

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 5.4.18

Expedition: 375

Observer: Ika

Site: 1520 Hole: C Core: 10R Sect.: 1 Interval: 35

Sediment Name: calcareous mudstone with some Marl

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
T	Quartz
T	Feldspars
C	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
T	Pyrite
D	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
	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
T	Opaque Grain
	Glauconite
	Other (specify):

Remarks: Recrystallized Marl

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 5.4.18

Expedition: 375 Observer: RG

Site: 1520 Hole: C Core: 10R Sect.: 4 Interval: 9

Sediment Name: Calcareous mudstone with nanos

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
TR	Quartz
T	Feldspars
A	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
T	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
R	Transparent glass
P	Colored glass
	Volcanic lithics
T	Altered volcanic(e.g. palagonite)
	Authigenic components
T	Pyrite
D	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
P	Nannofossils
P	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:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 5.9.11

Expedition: 375

Observer: Ra

Site: 1520 Hole: C Core: 10R Sect.: 6 Interval: 39

Sediment Name: Calcareous mudstone (with 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
				5	25	70

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
T	Quartz
I	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
P	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
T	Transparent glass
P	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
T	Pyrite
A	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
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
	Pyroxene
	Amphibole
T	Micas
	Chlorite
	Zircon
	Apatite
T	Opaque Grain
	Glauconite
	Other (specify):

Remarks: 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: 5.4.18

Expedition: 375 Observer: Rui

Site: 1520 Hole: C Core: 11R Sect.: 2 Interval: 70

Sediment Name: Foraminifer. chalk

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
Tr	Quartz
Tr	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
T	Transparent glass
	Colored glass
	Volcanic lithics
T	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
A	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
A	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
Tr	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: 5.4.18

Expedition: 375 Observer: RM

Site: 1520 Hole: C Core: 11R Sect.: 2 Interval: 115

Sediment Name: calcareous mudstone ~~/ mudstone~~

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	~~30~~

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
T	Quartz
F	Feldspars
A	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
T	Altered volcanic(e.g. palagonite)
	Authigenic components
J	Pyrite
D	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
P	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
	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: 5 Apr. 2018

Expedition: 375 Observer: Noda Hu

Site: 1520 Hole: C Core: 11R Sect.: 4A Interval: 80

Sediment Name: calcareous mud stone. (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
	Quartz
R	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
T	Transparent glass
R	Colored glass
	Volcanic lithics
T	Altered volcanic(e.g. palagonite)
	Authigenic components
	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
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
	Olivine
T	Pyroxene
	Amphibole
	Micas
	Chlorite
	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: 5 Apr. 2018

Expedition: 375 Observer: Noda

Site: 1520 Hole: C Core: 11R Sect.: 5A Interval: 63

Sediment Name: devitrified tuff

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
				5	70	25

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
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
P	Transparent glass
	Colored glass
	Volcanic lithics
A	Altered volcanic(e.g. palagonite)
	glass replaced with clay
	Authigenic components
	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
	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
R	Micas Bt.
	Chlorite
T	Zircon
T	Apatite
P	Opaque Grain
	Glauconite
P	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: 5 Apr. 2018

Expedition: 375 Observer: Noda/Ly

Site: 1520 Hole: C Core: 11R Sect.: 5A Interval: 66

Sediment Name: foraminifera chalk

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
T	Quartz
P	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
T	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
D	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
A	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
T	Zircon
	Apatite
T	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: 5. Apr. 2018

Expedition: 375 Observer: Noda

Site: 1520 Hole: C Core: 11R Sect.: 7A Interval: 25

Sediment Name: calcareous mudstone (marl)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				1	~29	70

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
T	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
T	Transparent glass
	Colored glass
	Volcanic lithics
T	Altered volcanic(e.g. palagonite)
	Authigenic components
T	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
P	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
R	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: 4/5/18

Expedition: 375 Observer: OLIV YL

Site: U1520 Hole: C Core: 2R Sect.: 1A Interval: 50

Sediment Name: Calcareous mudstone - Chalk

brown

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	99

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
B	Quartz
T	Feldspars
A	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
R	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
B	Transparent glass
T	Colored glass
B	Volcanic lithics
T	Altered volcanic(e.g. palagonite)
	Authigenic components
	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
C	Nannofossils
	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
T	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: 4/5/18

Expedition: 375 / Observer: OLIV/MG

Site: U1520 Hole: C Core: 12R Sect.: 4A Interval: 62

Sediment Name: Calcareous mudstone with volcaniclastic Marl

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	15	85

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
T	Quartz
R	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
R	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
P	Transparent glass
P	Colored glass
P	Volcanic lithics
P	Altered volcanic(e.g. palagonite)
	Authigenic components
T	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
A	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
T	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glauconite
P	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: 4/5/18

Expedition: 375 Observer: OLV

Site: U1520 Hole: C Core: 12R Sect.: 5A Interval: 50

Sediment Name: calcareous / marl green

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	99

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
R	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
T	Transparent glass
	Colored glass
T	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
A	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
	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
T	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: 4/5/18

Expedition: 375 Observer: OLIV M

Site: U1520 Hole: C Core: 13R Sect.: 2A Interval: 60

Sediment Name: Calcareous mudstone – marl
green

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	99

Select one and check.

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

[1] List under remarks if possible

T/R/P/C/A/D/M	Composition
	Pelagic Grains
	Calcareous
D	Nannofossils
D	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
T	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: 4/5/18

Expedition: 375 Observer: OLIV

Site: U1520 Hole: C Core: 13R Sect.: 3A Interval: 78

Sediment Name: M devitrified tuff 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
				10	60	30

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
T	Quartz
P	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
T	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
R	Transparent glass (D)
P	Colored glass
R	Volcanic lithics
I	Altered volcanic(e.g. palagonite)
	Authigenic components
	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
C	Nannofossils
F	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
P	Micas brown + alteration Bi
	Chlorite
T	Zircon
T	Apatite
	Opaque Grain
	Glauconite
P	Opaque Grain
	Other (specify):

Remarks: transparent glass shards are devitrified

manHy

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 5 Apr. 2018

Expedition: 375 Observer: Noda/Ku

Site: 1520 Hole: C Core: 14R Sect.: 1A Interval: 70

Sediment Name: marl

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
				1	20	79

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
T	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
T	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
	Pyrite
A	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
	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 Bt
T	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glauconite
T	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: 5 Apr. 2018

Expedition: 375 Observer: Noda / Lin

Site: 1520 Hole: C Core: 14R Sect.: 3A Interval: 54

Sediment Name: foraminifera chalk.

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
				15	65	20

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
	Colored glass
R	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
A	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
	Nannofossils
A	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
T	Amphibole
	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glauconite
T	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: 5. Apr, 2018

Expedition: 375 Observer: Nodaka

Site: 1520 Hole: C Core: 14R Sect.: 7A Interval: 50

Sediment Name: chalk

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
	Quartz
R	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
	Colored glass
	Volcanic lithics
T	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
A	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
C	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
T	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: 6.4.18

Expedition: 375

Observer: RL

Site: 1520 Hole: C Core: 75R Sect.: 5

Interval: 119

Sediment Name: Chalk

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	25	70

Select one and check.

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

[1] List under remarks if possible

T/R/P/C/A/D/M	Composition
	Pelagic Grains
	Calcareous
D	Nannofossils
D	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
R	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: 6.4.18

Expedition: 375

Observer: VM

Site: 1520 Hole: C Core: 15R Sect.: 7 Interval: 103

Sediment Name: Chalk with mud

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
	Quartz
T	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
T	Siltstone/sandstone
	Limestone
	Metamorphic lithic
T	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
	Colored glass
T	Volcanic lithics
T	Altered volcanic(e.g. palagonite)
	Authigenic components
	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
D	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
	Pyroxene
	Amphibole
	Micas
	Chlorite
	Zircon
	Apatite
T	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: 6.4.

Expedition: 378 Observer: RM

Site: 7520 Hole: C Core: 16R Sect.: 6 Interval: 51

Sediment Name: Chalk with mud.

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

Remarks: 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: 6.4.18

Expedition: 375

Observer: Rm

Site: 1520 Hole: C Core: 16R Sect.: 6 Interval: 66

Sediment Name: volcaniclastic sandstone (thin section needed)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

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

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
C	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
T	Chert
	Mudstone
(R)	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
C	Colored glass
C	Volcanic lithics
A	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
R	Calcite
	Dolomite
R	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
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
T	Pyroxene
	Amphibole
	Micas
	Chlorite
	Zircon
R	Apatite
	Opaque Grain
	Glauconite
P	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: 6. Apr. 2018

Expedition: 375 Observer: Noda Lu

Site: 1520 Hole: C Core: 18R Sect.: 4A Interval: 45

Sediment Name: muddy chalk

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
	Quartz
T	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
T	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
T	Transparent glass
	Colored glass
	Volcanic lithics
R	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
A	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
P	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
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: 6. Apr. 2018

Expedition: 375 Observer: Noda M

Site: 1520 Hole: C Core: 18R Sect.: 5A Interval: 86

Sediment Name: muddy chalk

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	90

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
R	Transparent glass
	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
A	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
P	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
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: 6 Apr. 2018

Expedition: 375 Observer: NODA

Site: 1520 Hole: C Core: 19R Sect.: 2A Interval: 28

Sediment Name: Foraminiferous chalk

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
					25	75

Select one and check.

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

Remarks: Toothpick

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 6. Apr.

Expedition: 375 Observer: NODA/LL

Site: 1520 Hole: C Core: 19R Sect.: 3A Interval: 37

Sediment Name: muddy chalk

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
	Quartz
	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
T	Transparent glass
	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
A	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
P	Nannofossils
P	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
T	Opaque Grain
	Glauconite
	Opaque Grain
	Other (specify):

Remarks: Toothpick

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 6. Apr. 2018

Expedition: 375

Observer: NODA

Site: 1520 Hole: C Core: 19R Sect.: 3A Interval: 113 cm

Sediment Name: chalk

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	10	90

Select one and check.

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

Remarks: Toothpick, better preservation & nanno

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 4/6/18

Expedition: 375 Observer: OLIV/LA

Site: U1520 Hole: C Core: 20R Sect.: 2A Interval: 20

Sediment Name: volcaniclastic sand → 6 grains age blocked by smear slide preparation

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
				40	40	20

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

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

T/R/P/C/A/D/M	Composition
	Minor Mineral Grain Types
	Olivine
	Pyroxene
	Amphibole
P	Micas Bt
	Chlorite
T	Zircon
	Apatite
P	Opaque Grain
	Glauconite
	Opaque Grain
	Other (specify):
?	3 Rich with Palagonite and 2 with altered Opaque glass

[1] List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: algaes (?) - P / coarse grain age Sand

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 4/6/18

Expedition: 375 Observer: OLIV

Site: U1520 Hole: C Core: 20R Sect.: 3A Interval: 70

Sediment Name: muddy chalk

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	4	95

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
T	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
	Volcanic lithics
R	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
D	Nannofossils
P	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 Bt
	Chlorite
	Zircon
	Apatite
T	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: 4/6/18

Expedition: 375 Observer: OLIV/Lu

Site: U1520 Hole: C Core: 21R Sect.: 1A Interval: 75

Sediment Name: Chalk

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	99

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
	Feldspars
P	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
T	Transparent glass
	Colored glass
	Volcanic lithics
T	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
A	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
D	Nannofossils
A	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
T	Chlorite
	Zircon
	Apatite
T	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: 6, Apr, 2018

Expedition: 375

Observer: Nodalk

Site: 1520 Hole: C Core: 22R Sect.: 5A Interval: 100

Sediment Name: foraminiferous chalk

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	70	27

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
R	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
	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
P	Nannofossils
P	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: 6 Apr. 2018

Expedition: 375 Observer: Nodalka

Site: 1520 Hole: C Core: 22R Sect.: 6A Interval: 43

Sediment Name: muddy chalk foraminifer

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
	Quartz
	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
	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
C	Nannofossils
C	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
T	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: 7.4.

Expedition: 375

Observer: IG

Site: 1520 Hole: C Core: 23R Sect.: 5 Interval: 79

Sediment Name: devitrified 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
					10	90

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
T	Quartz
R	Feldspars
A	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
T	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
R	Transparent glass D
R	Colored glass
T	Volcanic lithics
R	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
T	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
	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
T	Amphibole
	Micas
	Chlorite
T	Zircon
P	Apatite
	Opaque Grain
	Glauconite
P	Opaque Grain
	Other (specify):

Remarks: D = Dominant Devitrified glass

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 6.4.

Expedition: 375 Observer: KM

Site: 1520 Hole: C Core: 23R Sect.: 5 Interval: 99

Sediment Name: volcaniclastic silty clay (devitrified 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
				5	15	80

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
T	Quartz
A	Feldspars
A	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
C	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
(A)	Transparent glass devitrified
P	Colored glass
P	Volcanic lithics
C	Altered volcanic(e.g. palagonite)
	Authigenic components
R	Pyrite
	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
	Pyroxene
D	Amphibole
	Micas
	Chlorite
	Zircon
C	Apatite
P	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: 7.4.18

Expedition: 375 Observer: cm

Site: 1520 Hole: C Core: 23R Sect.: 6 Interval: 12

Sediment Name: devitrified 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
				5	70	25

Select one and check.

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

P R C
devitrified glass (transparent)

[1] List under remarks if possible

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

Remarks: Dominant to major devitrified 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: 7.4.

Expedition: 375 Observer: RM

Site: 1520 Hole: C Core: 23R Sect.: 6 Interval: 45

Sediment Name: volcaniclastic sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

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

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
T	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
P	Chert / Radiolarian?
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
R	Colored glass
R	Volcanic lithics
D	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
	Calcite
	Dolomite
C	Zeolites
C	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
T	Pyroxene
	Amphibole
	Micas
	Chlorite
	Zircon
C	Apatite
O	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: 7.4

Expedition: 375

Observer: RM

Site: 1520 Hole: C Core: 24 R Sect.: 1 Interval: 90

Sediment Name: volcaniclastic 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	30	60

Select one and check.

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

Expedition: 375 Observer: RM

Site: 7520 Hole: C Core: 24R Sect.: 3 Interval: 84

Sediment Name: volcaniclastic 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	70	20

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
P	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
P	Chert
	Mudstone
T	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
R	Colored glass
R	Volcanic lithics
D	Altered volcanic(e.g. palagonite)
	Authigenic components
T	Pyrite
	Calcite
	Dolomite
C	Zeolites
P	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
R	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: 7.4.

Expedition: 375

Observer: RM

Site: 1520 Hole: C Core: 25R Sect.: 2 Interval: 127

Sediment Name: volcaniclastic sandy silt with all carbonate in sand the matrix

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
	Quartz
P	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
T	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
P	Colored glass
P	Volcanic lithics
D	Altered volcanic(e.g. palagonite)
	Authigenic components
T	Pyrite
	Calcite
	Dolomite
C	Zeolites
P	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
R	Apatite
C	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: 4/7/18

Expedition: 375 Observer: OL IV

Site: U1520 Hole: C Core: 28R Sect.: 2A Interval: 122

Sediment Name: volcaniclastic/vitric sandstone with bioclastic

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
				40	50	10

Select one and check.

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

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
R	Apatite
	Opaque Grain
	Glauconite
P	Opaque Grain
	Other (specify):
T	epidote

Remarks: Foraminifers are very altered oolites infilled by silica and bioclastic

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

#10

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: OCIV 4/7/18

Expedition: 375

Observer:

Site: U1520C Hole: C Core: 29R Sect.: 4A Interval: 69

Sediment Name: volcaniclastic coarse sandstone

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	60	20

Select one and check.

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

[1] List under remarks if possible

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

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
P	Opaque Grain
	Glauconite
	Opaque Grain
	Other (specify):

Remarks: bioclasts infilled by silica

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 4/7/18

Expedition: 375 Observer: OLIV

Site: U1520 Hole: C Core: 31R Sect.: 1A Interval: 58

Sediment Name: volcaniclastic coarse sandstone dark/brown

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

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
T	Zircon
R	Apatite
P	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: 7 Apr. 2018

Expedition: 375 Observer: Noda

Site: 1520 Hole: C Core: 32R Sect.: 1A Interval: 40

Sediment Name: volcaniclastic coarse sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
X			

Select one and check.

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

Select one and check.

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

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
P	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: 8.4.18

Expedition: 375

Observer: IL

Site: 1520 Hole: C Core: 34 Sect.: 3 Interval: 64

Sediment Name: Marl with foraminifers

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
T	Quartz
P	Feldspars
D	Clay minerals
	Lithic Grains
	Sedimentary Lithics
T	Chert
	Mudstone
P	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
P	Colored glass
	Volcanic lithics
E	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
A	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
T	Nannofossils
A	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
T	Apatite
	Opaque Grain
	Glauconite
P	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: 8.4.18

Expedition: 375

Observer: Ikuo

Site: 1520 Hole: C Core: 34 Sect.: 5 Interval: 70

Sediment Name: Marl

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

[1] List under remarks if possible

T/R/P/C/A/D/M	Composition
	Pelagic Grains
	Calcareous
R	Nannofossils
P	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
T	Apatite
P	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: 8. Apr. 2018

Expedition: 375 Observer: Noda

Site: 1520 Hole: C Core: 41R Sect.: 1A Interval: 56

Sediment Name: volcaniclastic siltstone

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
				5	75	20

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
T	Quartz
P	Feldspars
P	Clay minerals
	Lithic Grains
	Sedimentary Lithics
R	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
P	Colored glass
C	Volcanic lithics
A	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
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
R	ooides

Abundances like in 375 Methods-C-Table 2

T/R/P/C/A/D/M	Composition
	Minor Mineral Grain Types
	Olivine
	Pyroxene
	Amphibole
	Micas
R	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glauconite
R	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: 8. Apr. 2018

Expedition: 375 Observer: Noda/[illegible]

Site: 1520 Hole: C Core: 41R Sect.: 1A Interval: 116

Sediment Name: volcaniclastic siltstone

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
				5	70	>5

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
R	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
	Colored glass
	Volcanic lithics
D	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
P	Calcite
	Dolomite
C	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
A	Micas Bt
	Chlorite
	Zircon
T	Apatite
	Opaque Grain
	Glauconite
P	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: 8. Apr. 2018

Expedition: 375

Observer: Noda

Site: 1520 Hole: C Core: 41R Sect.: 2A Interval: 67

Sediment Name: volcaniclastic sandy siltstone

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
				30	60	10

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
T	Quartz
P	Feldspars
A	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
P	Colored glass
A	Volcanic lithics
D	Altered volcanic(e.g. palagonite)
	devitrified
	Authigenic components
	Pyrite
R	Calcite
T	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
	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 R
	Chlorite
	Zircon
	Apatite
	Opaque Grain
P	Glauconite 2 or more grains
	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: 4/8/18

Expedition: 375 Observer: OCIV

Site: U1520 Hole: C Core: 42R Sect.: 1A Interval: 124

Sediment Name: Volcaniclastic coarse sandstone

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
	Quartz
R	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
P	Colored glass
R	Volcanic lithics
A	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
A	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
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
P	**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
P	ooides

Abundances like in 375 Methods-C-Table 2

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

Remarks: bioclast are recristalized
ooides are altered with silica rim

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 4/8/18

Expedition: 375 Observer: OLIV)Lu

Site: U1520 Hole: C Core: 42R Sect.: 4A Interval: 104

Sediment Name: silty claystone

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
	Quartz
	Feldspars
A	Clay minerals
	Lithic Grains
	Sedimentary Lithics
P	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
R	Colored glass
	Volcanic lithics
C	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
C	Calcite
	Dolomite
C/P	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
T	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
R	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
T	Chlorite
	Zircon
T	Apatite
P	Opaque Grain
	Glauconite
	Opaque Grain
	Other (specify):

Remarks: grains and bioclasts are recrystalized

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 4/8/18

Expedition: 375 Observer: OLN

Site: U1520 Hole: C Core: 43R Sect.: 2A Interval: 34

Sediment Name: silty claystone

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
				2	23	75

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
P	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
R	Chert
	Mudstone
C	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
T	Colored glass
R	Volcanic lithics
C	Altered volcanic(e.g. palagonite)
	Authigenic components
T	Pyrite
P	Calcite
	Dolomite
R	Zeolites
P	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
T	Chlorite
	Zircon
T	Apatite
C	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: 4/8/18

Expedition: 375 Observer: OLIV

Site: U1520 Hole: C Core: 43R Sect.: 3A Interval: 68

Sediment Name: coarse sandstone

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
R	Quartz
T	Feldspars
A	Clay minerals
	Lithic Grains
	Sedimentary Lithics
P	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
	Colored glass
	Volcanic lithics
C	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
C	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
	Nannofossils
T	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
R	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
P	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:

Expedition: 375 Observer: OLIV

Site: U1520 Hole: C Core: 43R Sect.: CCA Interval: 31

Sediment Name: limestone

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	10	90

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
	Colored glass
	Volcanic lithics
	Altered volcanic(e.g. palagonite)
	Authigenic components
B	Pyrite
M	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
T	Chlorite
	Zircon
	Apatite
T	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: 4/9/18

Expedition: 375 Observer: OLIV

Site: U1520 Hole: C Core: 2R Sect.: 1 Interval: 23-25

Sediment Name: marl

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	1	99

Select one and check.

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

Abundances like in 375 Methods-C-Table 2

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

Remarks: some lithoclasts have calcite rim and micrite core
ooides are micritized

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 4/10/18

Expedition: 375 Observer: CIV

Site: U1520 Hole: C Core: 6R Sect.: 2 Interval: 11–14

Sediment Name: marl

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	1	98

Select one and check.

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

Abundances like in 375 Methods-C-Table 2

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

Remarks:

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

Is authigenic feldspar?

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 4/9/18

Expedition: 375 Observer: OLIV

Site: U1510 Hole: C Core: 6R Sect.: CC Interval: 9-12

Sediment Name: marl

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
	Quartz
T	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
R	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
	Colored glass
	Volcanic lithics
P	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
D	Calcite + micrite
	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
P	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
C	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
R	oolides

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
T	Glauconite
R	Opaque Grain
	Other (specify):
T	dense minerals

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 16, Apr. 2018

Expedition: 375 Observer: Noda

Site: 1520 Hole: C Core: 15R Sect.: 6 Interval: 26-27

Sediment Name: chalk

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
				5	50	45

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
	Colored glass
	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
	Nannofossils
C	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
	Mollusk
	Echinoderm
	Benthic foraminifer
P	Other bioclast (specify)
	unspecified
	Minor Other Grain Types
	Phosphate (bones, teeth, etc)
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Other carbonate allochems
	Peloid
	Intraclast
D	carbonate mud

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: foram.-rich lamina

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 16, Apr, 2018

Expedition: 375 Observer: Noda

Site: 1520 Hole: C Core: 25R Sect.: 1W Interval: 53-56

Sediment Name: volcaniclastic conglomerate

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
	X		

Select one and check.

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

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
R	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
	Colored glass
	Volcanic lithics
M	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
	Calcite
	Dolomite
C	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: basalt clasts surrounded by palagonite rim. ~~Zeolite matrix~~

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 14/04/18

Expedition: 375 Observer: TENE

Site: U1520 Hole: C Core: 26R Sect.: 1 Interval: 60-62 cm

Sediment Name: Volcaniclastic conglomerate

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
	✓		

Select one and check.

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

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
P	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
	Colored glass
	Volcanic lithics
C	Altered volcanic(e.g. palagonite)
	Authigenic components
C	Pyrite
C	Calcite
	Dolomite
C	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
P	Chlorite
	Zircon
	Apatite
P	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: 16, Apr, 2018

Expedition: 375 Observer: Noda

Site: 1520C Hole: C Core: 34R Sect.: 4W Interval: 10 – 12

Sediment Name: chalk (Packstone)

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	30	30

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
	Colored glass
	Volcanic lithics
P	Altered volcanic(e.g. palagonite)
	Authigenic components
R	Pyrite
	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
	Nannofossils
P	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Sillicoflagellate
	Sponge Spicule
	Other bioclasts
P	Mollusk
	Echinoderm
	Benthic foraminifer
D	Other bioclast (specify)
	undetermined
	Minor Other Grain Types
	Phosphate (bones, teeth, etc)
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
	Other carbonate allochems
	Peloid
	Intraclast
C	carbonate mud

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
R	Opaque Grain
	Glauconite
	Opaque Grain
	Other (specify):

Remarks: sand-sized brownish altered glass and basalt

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

NOT FINISHED!

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 14/04/18

Expedition: 375 Observer: JFEME

Site: U1520 Hole: C Core: 40R Sect.: 2 Interval: 49-51

Sediment Name:

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

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
	Colored glass
	Volcanic lithics
A	Altered volcanic(e.g. palagonite)
	Authigenic components
	Pyrite
?	Calcite
	Dolomite
C	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: 14. Apr. 2018

Expedition: 375 Observer: Noda

Site: 1520 Hole: C Core: 41R Sect.: 1A Interval: 47-49

Sediment Name: volcaniclastic conglomerate

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

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
	Feldspars
	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
	Colored glass
	Volcanic lithics
D	Altered volcanic(e.g. palagonite)
	Authigenic components
	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
	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: All clasts are amygdaloidal basalt filled by calcite or chrolite basalt is microcrystalline plagioclase basalt showing trachytic texture. calcite cementation

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 14 Apr. 2018

Expedition: 375 Observer: NODA

Site: 1520 Hole: C Core: 42R Sect.: 3A Interval: 137-139

Sediment Name: clayey siltstone

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
				5	60	35

Select one and check.

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

Remarks: greenish altered glasses may be fillers of vesicles in basalt ghost of microfossils (radiolaria?)

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 17, Apr, 2018

Expedition: 375 Observer: NODA

Site: 1520 Hole: C Core: 43R Sect.: 2A Interval: 86-89

Sediment Name: volcaniclastic siltstone

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	60	20

Select one and check.

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

[1] List under remarks if possible

T/R/P/C/A/D/M	Composition
	Pelagic Grains
	Calcareous
	Nannofossils
R	Foraminifers
	Siliceous
	Diatom
P	Radiolarian ~~(not sure)~~
	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
	Amphibole
	Micas
	Chlorite
	Zircon
	Apatite
	Opaque Grain
	Glauconite
~~C~~	Opaque Grain
	Other (specify):

Remarks: Greenish and transparent spherical grains are amygdules liberated from basalt.
↑replaced with zeolite or clay

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

angular basalt.

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 14 Apr. 2018

Expedition: 375 Observer: NODA

Site: 1520 Hole: C Core: 43R Sect.: CC Interval: 22-25

Sediment Name: Limestone

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

Select one and check.

T/R/P/C/A/D/M	Composition
	Major Siliciclastic Grain Types
	Quartz
	Feldspars
C	Clay minerals
	Lithic Grains
	Sedimentary Lithics
	Chert
	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
	Volcaniclastic Grains
	Transparent glass
	Colored glass
	Volcanic lithics
R	Altered volcanic(e.g. palagonite)
	Authigenic components
R	Pyrite
M	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
	Nannofossils
C	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: Forams are recrystalised.
greenish spherical grains ← filler of vesicles of basalt?
(chrolite)

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