

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 19.4.17

Expedition: 375

Observer: Na

Site: 1574 Hole: C Core: 2 Sect.: 3

Interval: 77

Sediment Name: mixed silt with mud.
neritic

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

Select one and check. Select one and check.

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

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

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: Teeth nodules

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 19.4.18

Expedition: 325

Observer: HASHI

Site: 1519 Hole: C Core: 2 Sect.: 3

Interval: AR

Sediment Name: Silty Clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
✓								3	40	57

Select one and check.

Select one and check.

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

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

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 4/19/18

Expedition: 375

Observer: OCLV

Site: U1519

Hole: C

Core: 4R

Sect.: 2A

Interval: 95

Sediment Name: silty clay → mudstone with nannefossils

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
V								2	28	70

Select one and check.

Select one and check.

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

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

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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



375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 19 Apr 2018

Expedition: 375

Observer: NoDA

Site: 1519 Hole: C Core: 9R Sect.: 3A

Interval: 122 cm

Sediment Name: clayey silt mudstone

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

Select one and check.

Select one and check.

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

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

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

List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 19 Apr 2018

Expedition: 375

Observer: NODA

Site: 1519 Hole: C Core: 10R Sect.: 3A

Interval: 68

Sediment Name: mudstone

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
X								2	68	30

Select one and check.

Select one and check.

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

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

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

List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: detrital / calcite ?
recrystallized

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 19 Apr 2018

Expedition: 375 Observer: NODA

Site: 1519 Hole: C Core: ~~10B~~ ^{11B} Sect.: 2A Interval: 73

Sediment Name: silty mudstone

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
1								3	57	40

Select one and check.

Select one and check.

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

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

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

List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: detrital calcite

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 20.4.18

Expedition: 375

Observer: Ka

Site: 1519 Hole: C Core: 12R Sect.: CC

Interval: 6

Sediment Name: silty mudstone

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

Select one and check.

Select one and check.

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

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

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

List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 4/20/18

Expedition: 375

Observer: OLN

Site: U1519 Hole: C

Core: 14B Sect.: 7A

Interval: 105

Sediment Name: very fine sandstone

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
<u>V</u>								<u>25</u>	<u>55</u>	<u>20</u>

Select one and check.

Select one and check.

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

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

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 24.4.18

Expedition: 375

Observer: Mu

Site: W1514 Hole: C

Core: 14 Sect.: 2

Interval: 50-

Sediment Name: ASL

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

Select one and check.

Select one and check.

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

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

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 4/20/18

Expedition: 375

Observer: OLIV

Site: U1519 Hole: C

Core: 14D

Sept.: 4A

Interval: 60

Sediment Name: Mudstone

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
V								2.5	7.5	90

Select one and check.

Select one and check.

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

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

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 22.4.18

Expedition: 375

Observer: U.

Site: 1579 Hole: C

Core: 15R Sect.: 1

Interval: 69

Sediment Name: ASL

Smear Slide	Thin Section	Coarse Fraction	Grain Mount

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				70	90	

Select one and check.

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

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

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

List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 22.4.98

Expedition: 375 Observer: AK

Site: 1599 Hole: C Core: 75R Sect.: 4 Interval: 17

Sediment Name: ASH

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

Select one and check.

Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 22.4.18

Expedition: 375

Observer: Rca

Site: 7579 Hole: C Core: 75R Sect.: 5

Interval: 20

Sediment Name: Ash off

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

Select one and check.

Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 20, Apr. 2018

Expedition: 375

Observer: NODA

Site: 1519 Hole: C Core: 15R Sect.: 5A

Interval: 63

Sediment Name: sandy siltstone

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

Select one and check.

Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: identified

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 20 Apr 2018

Expedition: 375

Observer: NODA

Site: 1519 Hole: C Core: 15R Sect.: 7A

Interval: 20

Sediment Name: mudstone

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

Select one and check.

Select one and check.

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

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

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 22.4.18

Expedition: 375

Observer: K1

Site: 1579 Hole: C Core: 16R Sect.: 1

Interval: 165

Sediment Name: ash/kuff

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
								20	60	20

Select one and check.

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

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

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

List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 4/20/18

Expedition: 375

Observer: RAB1

Site: U1519 Hole: C

Core: 10R Sect.: 3A

Interval: 55cm

Sediment Name: mudstone

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

Select one and check.

Select one and check.

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

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

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 22.4.16

Expedition: 375

Observer: MW

Site: 1579

Hole: C

Core: 16R

Sect.: 4

Interval: 69

Sediment Name: ash/tuff

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

Select one and check.

Select one and check.

T/R/P/C/A/D/M	Composition
Major Siliciclastic Grain Types	
<u>1</u>	Quartz
<u>R</u>	Feldspars
<u>7</u>	Clay minerals
Lithic Grains	
Sedimentary Lithics	
<u>T</u>	Chert
	Mudstone
<u>D</u>	Siltstone/sandstone
	Limestone
	Metamorphic lithic
<u>T</u>	Plutonic lithic
Volcaniclastic Grains	
<u>M</u>	Transparent glass
<u>R</u>	Colored glass
<u>T</u>	Volcanic lithics
<u>T</u>	Altered volcanic(e.g. palagonite)
Authigenic components	
<u>RR</u>	Pyrite
<u>RR</u>	Calcite
<u>R</u>	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

T/R/P/C/A/D/M	Composition
Pelagic Grains	
	Calcareous
<u>R</u>	Nannofossils
<u>1</u>	Foraminifers
Siliceous	
<u>T</u>	Diatom
	Radiolarian
<u>T</u>	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Minor Other Grain Types	
	Phosphate (bones, teeth, etc)
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Other carbonate allochems	
	Peloid
	Intraclast

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

List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 22.4.18

Expedition: 275

Observer: Ru

Site: 7519 Hole: C

Core: 16R Sect.: 5

Interval: 192

Sediment Name: osh (huff)

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

Select one and check.

Select one and check.

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

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

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

List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 7.4.78

Expedition: 375

Observer: llc

Site: D79 Hole: C Core: 77 Sect.: 1

Interval: 10

Sediment Name: mudrich tuff

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

Select one and check.

Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: tuff mixed with biogenic sediment by sampling

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 2/4

Expedition: 375

Observer: Rg

Site: 1579 Hole: C Core: 7R Sect.: 3

Interval: 98

Sediment Name: sandy mudstone

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
								25	40	35

Select one and check.

Select one and check.

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

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

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

† List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 214

Expedition: 375

Observer: Hn

Site: 1519 Hole: C Core: 18R Sect.: 5

Interval: 77

Sediment Name: Silty sandstone

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

Select one and check.

Select one and check.

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

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

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: larger clasts are either foraminifera or nannos/glass

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

375 Methods-C-F7 S

Sediment Smear Slide / Thin Section Description Sheet

Date: 27.4.78

Expedition: 375

Observer: [Signature]

Site: 1579

Hole: C

Core: 18

Sect.: 7

Interval: 83

Sediment Name: Tuff

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
								20	60	20

Select one and check.

Select one and check.

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

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

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

List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 21 Apr. 2018

Expedition: 375

Observer: NODA

Site: 1519 Hole: C Core: 19R Sect.: 1A

Interval: 57

Sediment Name: mudstone

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
X								3	67	30

Select one and check.

Select one and check.

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

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

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 22.4.

Expedition: 375

Observer: RM

Site: 1579 Hole: C Core: 19R Sect.: 6

Interval: 76

Sediment Name: 954

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
								80	90	

Select one and check.

Select one and check.

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

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

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 21 Apr. 2018

Expedition: 375

Observer: NODA

Site: 1519 Hole: C Core: 20 R Sect.: 1A

Interval: 40

Sediment Name: mudstone

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

Select one and check.

Select one and check.

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 21. Apr 2018

Expedition: 375

Observer: NODA

Site: 1519 Hole: C Core: 21R Sect.: 5A

Interval: 46 cm

Sediment Name: mudstone

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

Select one and check.

Select one and check.

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

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

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 21 Apr 2018

Expedition: 375

Observer: NODA

Site: 1519 Hole: C Core: 21 Sect.: 6A

Interval: 5 cm

Sediment Name: mudstone with nanos

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

Select one and check.

Select one and check.

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

List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 4/29/18

Expedition: 375

Observer: OLIV

Site: 1519 Hole: C

Core: 22R Sect.: 6A

Interval: 105

Sediment Name: silty sandstone with GSS

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

Select one and check.

Select one and check.

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

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

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

List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 4/27/88

Expedition: 375

Observer: OLIV

Site: 1519 Hole: C

Core: 22R Sect.: 7A

Interval: 30

Sediment Name: mudstone

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

Select one and check.

Select one and check.

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

List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 4/21/18

Expedition: 375

Observer: OLIV

Site: 1519 Hole: C

Core: 23R Sect.: 7A

Interval: 30

Sediment Name: Mixed silty sandstone / very fine sandstone

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

Select one and check.

Select one and check.

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

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

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 22.4

Expedition: 375

Observer: 164

Site: 1519 Hole: C Core: 23R Sect.: 2

Interval: 18

Sediment Name: Ah Hulf

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

Select one and check.

Select one and check.

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

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

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 4/29/18

Expedition: 375

Observer: OLIV

Site: 1519 Hole: C Core: 23 R Sect.: 5A

Interval: 66

Sediment Name: Mudstone

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
<u>✓</u>								<u>2</u>	<u>28</u>	<u>80</u>

Select one and check.

Select one and check.

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

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

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 22.4.

Expedition: 375

Observer: Na

Site: 1519 Hole: 0

Core: 1H Sect.: 7

Interval: 16

Sediment Name: mud

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
								15	45	40

Select one and check.

Select one and check.

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

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

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 22.4.

Expedition: 375

Observer: Na

Site: 7514 Hole: 0 Core: 14 Sect.: 2

Interval: 16

Sediment Name: As

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

Select one and check.

Select one and check.

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

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

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 22.4.

Expedition: 375

Observer: Nu

Site: 1574 Hole: 0

Core: 1 Sect.: CC

Interval: 5

Sediment Name: Asl

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

Select one and check.

Select one and check.

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

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

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

List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 23.4.18

Expedition: 375

Observer: Na

Site: 1519 Hole: D Core: 24 Sect.: 1A

Interval: 70

Sediment Name: Mud

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

Select one and check. Select one and check.

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

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

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: _____

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

375 Methods-C-F7

Sediment Smear Slide / Thin Section Description Sheet

Date: 83.4.18

Expedition: 375

Observer: RM

Site: D

Hole: 214 Core: 6 Sect.: 6

Interval: 4

Sediment Name: quartz-rich silt

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

Select one and check.

Select one and check.

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

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

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

¹ List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks:

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