

# 375 Methods-C-F7

## Sediment Smear Slide / Thin Section Description Sheet

Date: 23. Apr. 2018

Expedition: 375

Observer: NODA

Site: 1526 Hole: A Core: 3R Sect.: 1A

Interval: 49

Sediment Name: calcareous mudstone

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
<u>X</u>			

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
				<u>5</u>	<u>55</u>	<u>40</u>

Select one and check.

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

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

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

<sup>1</sup> 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. Apr, 2018

Expedition: 375

Observer: NODA

Site: 1526 Hole: A Core: 3R Sect.: 1A

Interval: 54

Sediment Name: calcareous 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>10</u>	<u>50</u>	<u>40</u>

Select one and check.

Select one and check.

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

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

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

<sup>1</sup> 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, Apr, 2018

Expedition: 375

Observer: NOBA

Site: 1526 Hole: A Core: 3R Sect.: 1A

Interval: 78

Sediment Name: calcareous mudstone

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
X								15	55	30

Select one and check.

Select one and check.

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

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

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

<sup>1</sup> 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. Apr. 2018

Expedition: 375

Observer: NOAA

Site: 1526 Hole: A Core: 3R Sect.: 2A

Interval: 33

Sediment Name: nannofossil-rich ooze with 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
				10	50	40

Select one and check.

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

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

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

<sup>1</sup> 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, Apr. 2018

Expedition: 375

Observer: NOVA

Site: 1526 Hole: A Core: 3R Sect.: 2A

Interval: 63

Sediment Name: nannofossil-rich ooze with foraminifers

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
<u>X</u>								<u>5</u>	<u>45</u>	<u>40</u>

Select one and check.

Select one and check.

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

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

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

<sup>1</sup> 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: 25, Apr. 2018

Expedition: 375

Observer: NO DA

Site: 1526 Hole: A

Core: 4R

Sect.: 1A

Interval: 5-7

Sediment Name: sandstone with volcaniclastic's

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

Select one and check.

Select one and check.

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

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

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

<sup>1</sup> List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: sandstone composed of micritic limestone, basalt, and shell fragments  
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: 25 Apr 2018

Expedition: 375

Observer: NODA

Site: 1526 Hole: A Core: 5R Sect.: 1W

Interval: 42-44

Sediment Name: volcanoclastic sandstone

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
	X		

Select one and check.

Granular Sediment			Other material	Percent Texture		
Siliciclastic	Volcanoclastic	Pelagic		Sand	Silt	Clay
				75	15	10

Select one and check.

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

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

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

<sup>1</sup> List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: granule- to <sup>vf.</sup> sand-sized volcanoclastic sandstone with basalt and shell fragments  
Micritic limestone clasts are also present.  
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: 25, Apr. 2018

Expedition: 375

Observer: NODA

Site: 1526 Hole: A Core: 5R Sect.: 1W

Interval: 41-42

Sediment Name: vesicular basalt

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

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

<sup>1</sup> List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: (augite) plagioclase - clinopyroxene - opaque minerals basalt. showing seriate texture and partly trachytic alignment.

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

vesiculos are filled with calcite



# 375 Methods-C-F7

## Sediment Smear Slide / Thin Section Description Sheet

Date: 25, Apr. 2018

Expedition: 375

Observer: NOPA

Site: 1526 Hole: A Core: 5R Sect.: 2# W

Interval: 91-93

Sediment Name: volcaniclastic sandstone (matrix of volcaniclastic conglomerate)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
	<u>A</u>							<u>75</u>	<u>15</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	
	Chert
	Mudstone
	Siltstone/sandstone
<u>P</u>	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Transparent glass
<u>J</u>	Colored glass
<u>D</u>	Volcanic lithics
	Altered volcanic (e.g. palagonite)
Authigenic components	
	Pyrite
<u>C</u>	Calcite
	Dolomite
	Zeolites
<u>R</u>	Fe/Mn oxide
	Other (specify):

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

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

<sup>1</sup> List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: sedimentary lithics are micritic limestone (well rounded) (hypocrystalline)

Volcaniclastic lithics are altered basalt including porphyritic/basalt and vesicular holohyaline basalt

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

most clasts are rounded to subrounded  
calcite cementation

# 375 Methods-C-F7

## Sediment Smear Slide / Thin Section Description Sheet

Date: 27. Apr. 2018

Expedition: 375

Observer: NODA

Site: 1526 Hole: A Core: 6R Sect.: 1W

Interval: 134-137

Sediment Name: basalt

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

Select one and check.

Select one and check.

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

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

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

<sup>1</sup> List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: Amygdaloidal olivine - augite basalt.

olivine phenocrysts are altered and replaced with serpentine and rimmed with iddingsite.  
Amygdules are filled with calcite.  
seriate texture

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

# 375 Methods-C-F7

## Sediment Smear Slide / Thin Section Description Sheet

Date: 27 Apr. 2018

Expedition: 375

Observer: NODA

Site: 1526 Hole: A Core: 6R Sect.: 2W

Interval: 13-16

Sediment Name: basalt

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

Select one and check.

Select one and check.

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

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

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

<sup>1</sup> List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: Amygdaloidal olivine-augite basalt. Proportion of amygdules 20-40%  
Amygdules are filled by calcite or chlorite. Olivine phenocrysts are altered.

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

# 375 Methods-C-F7

## Sediment Smear Slide / Thin Section Description Sheet

Date: 27 Apr 2018

Expedition: 375

Observer: NODA

Site: 1526 Hole: A Core: 6R Sect.: 3W

Interval: 35-38

Sediment Name: volcanoclastic sandstone

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

Select one and check.

Select one and check.

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

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

<sup>1</sup> List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: angular to well rounded grains of altered basalt with shell fragments.  
 pore space is filled by calcite. sandstone is grain-supported, and lacks matrix

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

# 375 Methods-C-F7

## Sediment Smear Slide / Thin Section Description Sheet

Date: 27. Apr. 2018

Expedition: 375

Observer: NODA

Site: 1526 Hole: A Core: 8R Sect.: 3W

Interval: 81-84

Sediment Name: basalt

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

Select one and check.

Select one and check.

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

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

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

<sup>1</sup> List under remarks if possible

Abundances like in 375 Methods-C-Table 2

Remarks: augite-bearing basalt. lacking amygdules. euhedral

porphyritic  
Most of phenocrysts are plagioclase (upto 3mm)  
trachytic texture is visible

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