

Sediment Smear Slide / Thin Section Description Sheet

Date: 2019-03-07

Expedition: 358

Observer: Dominik

Site: C0002 Hole: Q Core: 38 SMW Sect.:

Interval: soaked in drill mud from hole P.

Sediment Name:

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
	X			X				<1	~10	~90

Select one and check.

Select one and check.

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

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

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

¹ List under remarks if possible

Fill percentage (Total must be 100).

Remarks: Qz filled cracks; occasionally low lithic grains; diffuse areas of higher silt content.

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

D = >50% A = 50-10% C = 10-1% F = 1-0.1% R = <0.1%

Sediment Smear Slide / Thin Section Description Sheet

Date: 07/03/19

Expedition: 358

Observer: Pauline

Site: 0002 Hole: Q Core: Cuttings

Sect.: 610 SMIX Interval: Soaked in drill mud from Hole P.

Sediment Name: Silty claystone

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

Select one and check. Select one and check.

Percent	Composition
Major Siliciclastic Grain Types	
<u>27</u>	Quartz
	Feldspars
<u>50</u>	Clay minerals
Lithic Grains	
	Sedimentary Lithics
	Chert
<u>3</u>	Mudstone
	Siltstone/sandstone
	Limestone
	Metamorphic lithic
	Plutonic lithic
Volcaniclastic Grains	
	Vitric fragments
	Clear glass
	Colored glass
	Pumice
	Volcanic lithics
	Felsitic
	Microclite
	Lathwork
	Altered volcanic (palagonite)

Percent	Composition
Pelagic Grains	
	Calcareous
	Nannofossils
	Foraminifers
	Siliceous
	Diatom
	Radiolarian
	Silicoflagellate
	Sponge Spicule
Other bioclasts	
	Mollusk
	Algae
<u>1</u>	Echinoderm
	Benthic foraminifer
	Other bioclast (specify)
Other carbonate allochems	
	Peloid
	Intraclast
	Ooid
	Silt or sand-size carbonate allochem fragment (unspecified)
	Carbonate mud (apart from nannos)

Percent	Composition
Minor Grain Types	
	Dense minerals ¹
<u>5</u>	Micas (biotite, musc, chl) ¹
	Glauconite
	Phosphate (bones, teeth, etc)
	Opaque Grain
	Marine organic matter
	Terrestrial organic matter
	Other (specify):
Authigenic components	
	Pyrite (framboids)
<u>3</u>	Pyrite (euhedral)
	Pyrite (grain coating)
<u>1</u>	Calcite
	Dolomite
	Zeolites
	Fe/Mn oxide
	Other (specify):

¹ List under remarks if possible Fill percentage (Total must be 100).

Remarks: Presence of a shell (calcite)

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