

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
579	1332	B	2	2	90	ss1

Observer Ruhne

LITHOLOGY: clay (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 97 % Biogenic 3 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
		100

(= 100%)

**Abundance Code**  
 ≤ 1% = TR (trace)  
 1% - 10% = R (rare)  
 10% - 25% = C (common)  
 25% - 50% = A (abundant)  
 > 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	<u>Sheet Silicates</u>
	Biotite
TR	Muscovite
TR	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
TR	Glauconite
	Chert
	Zircon
TR	Apatite
	Titanite (sphene)
	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
R	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms 3%
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

*include about glauconite sighting*

*possible carb - fine silt sized particles with higher-order colors, so hard to tell...*

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1632	B	2	3	51	552

Observer Ruthie

LITHOLOGY: silt (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 97 % Biogenic 3 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
10	90	

(= 100%)

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
A?	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	<u>Sheet Silicates</u>
TR	Biotite
R	Muscovite
TR	Chlorite
	<u>Fe-Mg silicates</u>
TR	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
	Glauconite
	Chert
	Zircon
R	Apatite
	Titanite (sphene)
	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms 3%
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

imagined what I think is porous rock, but could be diatom fragment? (1.25 um)

no spherules observed  
coarse silt

all the apatite I see has "intrusion" exactly in center...



lots I don't know - christine?  
detrital minerals, angular - subangular

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
37 <sup>9</sup>	133 <sup>2</sup>	B	Z	4	100	SS 3

Observer	Ruthie
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LITHOLOGY: clay (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 95 % Biogenic 5 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	3	97

(= 100%)

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	Sheet Silicates
TR	Biotite
TR	Muscovite
TR	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
TR	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
TR	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
R	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	Siliceous
	Radiolarians
R	Diatoms 5%
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

carb! small pieces though  
(silt) HCl  
(didn't do the fizz test)

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1532	B	2	6	64	554

Observer	Ruthie
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LITHOLOGY: clay (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 95 % Biogenic 5 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	1	<del>29</del> 299 (= 100%)

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	Sheet Silicates
	Biotite
C	Muscovite
	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
R	Glauconite
	Chert
	Zircon
R	Apatite
	Titanite (sphene)
	Carbonate
	<b>Authigenic minerals</b>
	Barite
	Manganese Oxide
	Zeolite
	<b>Opaque Minerals</b>
	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<b>Calcareous</b>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<b>Siliceous</b>
	Radiolarians
R	Diatoms 5%
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	<b>Others</b>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
37A	532	B	2	6	130	555

Observer	Ruthie
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LITHOLOGY: clay (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 90 % Biogenic 10 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	10	90

(= 100%)

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	<u>Sheet Silicates</u>
TR	Biotite
R	Muscovite
TR	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
R-C	Glaucinite
	Chert
	Zircon
TR	Apatite
	Titanite (sphene)
	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
R	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R-C	Diatoms
	Silicoflagellates
TR	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)


**Comments:**

complete eucaampia antarctica  
(Steve Bohaty ID)  
(imaged 1:42 am)

many fragments, mostly eucaamp.  
but trace pennate fragments

MAYBE 1 carb fragment?

something that looks like this:

 like half a beer bottle  
bottom!

broken spherule?

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm. Slide #
579	1532	B	3	1	60	SS6

Observer	Ruthie
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LITHOLOGY: clay (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 93 % Biogenic 7 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	3	97

(= 100%)

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	<u>Sheet Silicates</u>
TR	Biotite
TR	Muscovite
TR	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
	Glauconite
	Chert
	Zircon
R	Apatite
	Titanite (sphene)
TR	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
R	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms 5%
	Silicoflagellates
TR	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

complete pennate diatoms

possible calcite?  
imaged; 3:22 am

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
57A	1532	B	3	2	95	557

Observer	Ruthie
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LITHOLOGY: clay (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 100 % Biogenic \_\_\_\_\_ (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
		<u>100</u>

(= 100%)

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	Sheet Silicates
	Biotite
	Muscovite
	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	<b>Authigenic minerals</b>
	Barite
	Manganese Oxide
	Zeolite
	<b>Opaque Minerals</b>
	Pyrite
<u>D</u>	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

taken from black splotch in core

all v. small oxides (flocculated)

Leg	Site	Hole	Core	Section	Position (cm) in core      Sm.Slide #	
379	1532	B	3	7	70	SS 8

Observer	Ruthie
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LITHOLOGY: clay (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 95 % Biogenic 5 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	10	90

(= 100%)

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	<u>Sheet Silicates</u>
TR	Biotite
R	Muscovite
TR	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
TR	Glauconite
	Chert
	Zircon
TR	Apatite
	Titanite (sphene)
TR	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
R	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms 5%
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:



Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1532	B	4	4	70	559

Observer	PUTHICE
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LITHOLOGY: clay (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 90 % Biogenic 10 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	10	90

(= 100%)

**Abundance Code**  
 ≤ 1% = TR (trace)  
 1% - 10% = R (rare)  
 10% - 25% = C (common)  
 25% - 50% = A (abundant)  
 > 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	Sheet Silicates
TR	Biotite
R	Muscovite
TR	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
TR	Apatite
	Titanite (sphene)
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
R	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
C	Diatoms 10%
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

whole centric diatom  
 one v. small pennate diatom  
 possible filament-y talc?

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm. Slide #
379	532	B	5	2	75	SS10

Observer Rutnie / Sandra

LITHOLOGY: clay (dominant) biossiliceous - rich (minor)

COMPOSITION: % Terrigenous 75 % Biogenic 25 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	3	97

(= 100%)

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	Sheet Silicates
	Biotite
TR	Muscovite
TR	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	<b>Authigenic minerals</b>
	Barite
	Manganese Oxide
	Zeolite
	<b>Opaque Minerals</b>
	Pyrite
TR	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<b>Calcareous</b>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<b>Siliceous</b>
TR	Radiolarians
R	Diatoms - whole pennate, centric
	Silicoflagellates
C	Sponge spicules
C	Siliceous debris (undifferentiated)
	<b>Others</b>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

talc??

foamline: (Sandra)

broken spherule?

evcampta antarctica

huge spicule-y things

Sandra: echinoderm spine??

Abundant: unknown green clay aggregate

- possibly some kind of authigenic mineral? or fecal pellets?

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1532	B	5	4	67	5511

Observer	
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LITHOLOGY: clay (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 95 % Biogenic 5 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	7	93

(= 100%)

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	Sheet Silicates
	Biotite
	Muscovite
TR	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
TR	Apatite
	Titanite (sphene)
TR	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
C	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
R	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

talc ??

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1532	B	5	6	55	5512

Observer	Putnie
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LITHOLOGY: \_\_\_\_\_ (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 98 % Biogenic 2 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	7	93

(= 100%)

**Abundance Code**  
 ≤ 1% = TR (trace)  
 1% - 10% = R (rare)  
 10% - 25% = C (common)  
 25% - 50% = A (abundant)  
 > 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	<u>Sheet Silicates</u>
	Biotite
	Muscovite
TR	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
TR	Glaucanite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
TR	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
R	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
579	1532	B	6	1	40	SS13

Observer	Ruthie
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LITHOLOGY: clay (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 95 % Biogenic 5 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	3	97

(= 100%)

**Abundance Code**  
 ≤ 1% = TR (trace)  
 1% - 10% = R (rare)  
 10% - 25% = C (common)  
 25% - 50% = A (abundant)  
 > 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
	Quartz
TR	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	Sheet Silicates
TR	Biotite
TR	Muscovite
TR	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
R	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
R	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

talc?? Aliments  
 serp- fish-scales

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1532	B	6	2	140	SS14

Observer Ruthie

LITHOLOGY: clay (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 95 % Biogenic 5 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
1	1	98

( = 100%)

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	<u>Sheet Silicates</u>
<u>TR</u>	Biotite
<u>TR</u>	Muscovite
	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
<u>TR</u>	Glaucinite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
<u>R</u>	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

**Comments:**

poorly sorted; v fine clay  
& occasional coarse silt  
or sand

falc?

Sand grain w/ red/pink: imaged  
11:03 am

serpentine?? (fish-scale fabric)  
imaged 11:06 am

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1532	B	6	7	50	SS15

Observer Patric

LITHOLOGY: clay (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 98 % Biogenic 2 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	<u>10</u>	<u>90</u>

(= 100%)

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
	Quartz
<u>TR</u>	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	<u>Sheet Silicates</u>
<u>TR</u>	Biotite
<u>TR</u>	Muscovite
	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
	Glauconite
	Chert
<u>TR</u>	Zircon
<u>TR</u>	Apatite
	Titanite (sphene)
	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
<u>TR</u>	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

calc? Cod one imaged 11:18am

Leg	Site	Hole	Core	Section	Position (cm) in core Sm.Slide #	
379	1352	B	7	2A	57	SS 16

Observer \_\_\_\_\_

LITHOLOGY: clay (dominant) silt (minor)

COMPOSITION: % Terrigenous 95 % Biogenic 5 (=100%)  
90 10

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	20	80

(= 100%)

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
C	Quartz
C	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	<u>Sheet Silicates</u>
	Biotite
R	Muscovite
	Chlorite
	<u>Fe-Mg silicates</u>
TR	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
	Glauconite
	Chert
TR	Zircon
TR	Apatite
	Titanite (sphene)
	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
TR	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
TV	Diatoms
	Silicoflagellates
TR	Sponge spicules
R	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

TR : talc - brucite  
(chrys)

Modified 02/15/19  
 edits in black pen



Leg	Site	Hole	Core	Section	Position (cm) in core      Sm.Slide #	
379	1352	B	7	4A	80	SS17

Observer	CS
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LITHOLOGY: clay (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 98 % Biogenic 2 (=100%)  
*00* *32*

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	1	99
( = 100%)		

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
R	Quartz
R	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	<u>Sheet Silicates</u>
	Biotite
TR	Muscovite
	Chlorite
	<u>Fe-Mg silicates</u>
TR	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
	Glaucanite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms <i>fragments</i>
	Silicoflagellates
R	Sponge spicules <i>fragments</i>
	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

Smear slide reviewed  
again 02/15/19  
• edit in black pen

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1592	B	7H	5A	62	SS17.5

Observer	PR
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LITHOLOGY: \_\_\_\_\_ (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 90 % Biogenic 10 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	10	90

(= 100%)

**Abundance Code**  
 ≤ 1% = TR (trace)  
 1% - 10% = R (rare)  
 10% - 25% = C (common)  
 25% - 50% = A (abundant)  
 > 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
R	Quartz
TR	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	<u>Sheet Silicates</u>
TR	Biotite
	Muscovite
TR	Chlorite
	<u>Fe-Mg silicates</u>
TR	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
	Glaucanite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
TR	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms
	Silicoflagellates
R	Sponge spicules
TR	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

Diatoms & sponge spicule fragments

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1352	B	7	6A	30	5518

Observer	CS
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LITHOLOGY: Clay (dominant) Silt (minor)

COMPOSITION: % Terrigenous 97 % Biogenic 3 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	15	85

(= 100%)

**Abundance Code**  
 ≤ 1% = TR (trace)  
 1% - 10% = R (rare)  
 10% - 25% = C (common)  
 25% - 50% = A (abundant)  
 > 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
C	Quartz
C	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	<u>Sheet Silicates</u>
	Biotite
C	Muscovite
	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
	Glauconite
	Chert
TR	Zircon
TR	Apatite
	Titanite (sphene)
	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
R	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms <u>fragments</u>
	Silicoflagellates
R	Sponge spicules <u>fragments</u>
	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

v. fine silt to fine silt

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1532	B	8A	1A	72	SS19

Observer CS

LITHOLOGY: \_\_\_\_\_ (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 95 % Biogenic 5 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	<u>5</u>	<u>95</u>

(= 100%)

**Abundance Code**  
 ≤ 1% = TR (trace)  
 1% - 10% = R (rare)  
 10% - 25% = C (common)  
 25% - 50% = A (abundant)  
 > 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
<u>C</u>	Quartz
<u>C</u>	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	<u>Sheet Silicates</u>
	Biotite
<u>R</u>	Muscovite
	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
<u>TR</u>	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
	Glauconite
	Chert
<u>TR</u>	Zircon
<u>TR</u>	Apatite
	Titanite (sphene)
	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
<u>TR</u>	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
	Diatoms <u>X</u>
	Silicoflagellates
	Sponge spicules <u>X</u>
<u>R</u>	Siliceous debris (undifferentiated) <u>fragments</u>
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

Mineral grains are v. fine silt.

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
BT9	1532	B	8H	4A	42	SS 20

Observer	CS
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LITHOLOGY: Clay (dominant) Silt (minor)

COMPOSITION: % Terrigenous 98 % Biogenic 2 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	10	90

(= 100%)

**Abundance Code**  
 ≤ 1% = TR (trace)  
 1% - 10% = R (rare)  
 10% - 25% = C (common)  
 25% - 50% = A (abundant)  
 > 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
C	Quartz
C	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	<u>Sheet Silicates</u>
	Biotite
R	Muscovite
	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
	Glaucconite
	Chert
TR	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
TR	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
TR	Diatoms
	Silicoflagellates
TR	Sponge spicules
TR	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

... } contamination  
 Few Fe-Mg silicates compared to upper parts of Hole B (and most of cores from Hole A)

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1532	B	8H	4A	128	SS21

Observer	CS
----------	----

LITHOLOGY: clay (dominant) sand (minor)

COMPOSITION: % Terrigenous 99 % Biogenic 1 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
<u>4</u>	<u>1</u>	<u>95</u>

(= 100%)

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
C	Framework minerals
C	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	Sheet Silicates
R	Biotite
TR	Muscovite (~ talc)
	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
TR	Zircon
TR	Apatite
	Titanite (sphene)
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
TR	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
TR	Diatoms
	Silicoflagellates
TR	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

Silic. fossil fragm, v. tiny

epidote ID'd

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm. Slide #
379	1532	B	8H	5A	69	SS22

Observer	CS
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LITHOLOGY: \_\_\_\_\_ (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 93 % Biogenic 7 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	15	85

(= 100%)

**Abundance Code**  
 ≤ 1% = TR (trace)  
 1% - 10% = R (rare)  
 10% - 25% = C (common)  
 25% - 50% = A (abundant)  
 > 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
C	Quartz
C	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	<u>Sheet Silicates</u>
TR	Biotite
R	Muscovite
	Chlorite
	<u>Fe-Mg silicates</u>
TR	Amphibole (hornblende)
	Garnet
TR	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
	Glauconite
	Chert
TR	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
TR	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
TR	Diatoms
	Silicoflagellates
TR	Sponge spicules
R	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

White mica might be calc  
 ? Serpentin. min TR  
 present in TR

DR

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
319	1532	B	9H	1A	95	SS23

Observer	DR
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LITHOLOGY: \_\_\_\_\_ (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 90 % Biogenic 10 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	<u>20</u>	<u>80</u>

(= 100%)

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
<u>C</u>	Quartz
<u>R</u>	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	Sheet Silicates
<u>TR</u>	Biotite
	Muscovite
	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
<u>R</u>	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	<u>Gypsum</u>
	Opaque Minerals
	Pyrite
<u>R</u>	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
<u>R</u>	Diatoms
	Silicoflagellates
<u>R</u>	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

Diatom & sponge spicule fragments.  
 → Gypsum - thread-y, beat grains.  
R



DR

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1532	B	9H	3A	126	1524

Observer	DR
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LITHOLOGY: \_\_\_\_\_ (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 90 % Biogenic 10 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
1	9	90

(= 100%)

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
C	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	<u>Sheet Silicates</u>
	Biotite
	Muscovite
	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
TR	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	Gypsum
	<u>Opaque Minerals</u>
	Pyrite
TR	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms
	Silicoflagellates
R	Sponge spicules
R	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

very poorly sorted. <sup>Tiny v. fine silt size</sup> Diatoms and sponge spicule fragments present, some broken fragments, large gypsum, thread-y, bent grains

PR

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1532	B	94	5A	80	SS25

Observer	PR
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LITHOLOGY: \_\_\_\_\_ (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 90 % Biogenic 10 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	<u>10</u>	<u>90</u>

(= 100%)

**Abundance Code**  
 ≤ 1% = TR (trace)  
 1% - 10% = R (rare)  
 10% - 25% = C (common)  
 25% - 50% = A (abundant)  
 > 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
<u>E</u>	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	<u>Sheet Silicates</u>
	Biotite
	Muscovite
	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
	Glaucanite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
<u>TR</u>	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
<u>R</u>	Diatoms
	Silicoflagellates
<u>R</u>	Sponge spicules
<u>R</u>	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

Diatoms & sponge spicules (fragments) make up large portion of silt size material.

v. fine silt

DR

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1532	B	9	4	89	20

Observer	DR
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LITHOLOGY: \_\_\_\_\_ (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 85 % Biogenic 15 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	5	95

( = 100%)

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
R	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	<u>Sheet Silicates</u>
TP	Biotite
	Muscovite
	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
TP	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
C	Diatoms
	Silicoflagellates
C	Sponge spicules
R	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

Diatom & sponge spicule fragments  
make up large portion of silt  
size material

DR

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1532	B	10H	1A	64	SS27

Observer	DR
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LITHOLOGY: \_\_\_\_\_ (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 90 % Biogenic 10 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	5	95

(= 100%)

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
R	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	Sheet Silicates
JR	Biotite
	Muscovite
	Chlorite
	Fe-Mg silicates
Tr	Amphibole (hornblende)
	Garnet
Tr	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
TR	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
Tr	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms
	Silicoflagellates
R	Sponge spicules
R	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

coarser material = diatom & sponge spicule fragments.

DR

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1532	B	10H	4A	16	SS 28

Observer	DR
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LITHOLOGY: \_\_\_\_\_ (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 90 % Biogenic 10 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
1	10	89

(= 100%)

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
C	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	Sheet Silicates
R	Biotite
	Muscovite
	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
TR	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
Ts	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	<b>Authigenic minerals</b>
	Barite
	Manganese Oxide
	Zeolite
	<b>Opaque Minerals</b>
	Pyrite
TR	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<b>Calcareous</b>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<b>Siliceous</b>
	Radiolarians
R	Diatoms
	Silicoflagellates
R	Sponge spicules
TR	Siliceous debris (undifferentiated)
	<b>Others</b>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments: Mineral grains v. fine silt, diatom & sponge spicule fragments make up coarser portion of material, v. fine sand size fraction of diatom fragments.

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1532	B	11F	1	110	5529

Observer Night Shift

LITHOLOGY: silty clay (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 83 % Biogenic 17% (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	10	90

(= 100%)

**Abundance Code**  
 ≤ 1% = TR (trace)  
 1% - 10% = R (rare)  
 10% - 25% = C (common)  
 25% - 50% = A (abundant)  
 > 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	<u>Sheet Silicates</u>
	Biotite
	Muscovite
	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
15%	Diatoms
	Silicoflagellates
2%	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

biosiliceous - bearing  
silty clay

- diatom fragments are common  
 - rare complete centric diatoms T. torokina

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
399	1532	B	11F	3	110	5530

Observer Night Shift

LITHOLOGY: \_\_\_\_\_ (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 85% % Biogenic 15% (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	<u>2</u>	<u>98</u>
( = 100%)		

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	<u>Sheet Silicates</u>
	Biotite
	Muscovite
	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
<u>10%</u>	Diatoms
	Silicoflagellates
<u>5%</u>	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

**Comments:**

- aggregates of clay, rounded (fecal pellets?)
- diatoms are fragments also pennate diatoms that are complete

Biosiliceous-bearing clay!

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1532	B	11F	4	10	SS31

Observer Night Shift

LITHOLOGY: \_\_\_\_\_ (dominant) \_\_\_\_\_ (minor)

COMPOSITION: % Terrigenous 68 % Biogenic 32 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	<u>5</u>	<u>95</u>
( = 100%)		

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	<u>Sheet Silicates</u>
	Biotite
	Muscovite
	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
<u>20%</u>	Diatoms
	Silicoflagellates
<u>10%</u>	Sponge spicules
<u>2%</u>	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

*biosiliceous-rich silty clay  
- diatom fragments are common*



Leg	Site	Hole	Core	Section	Position (cm) in core      Sm.Slide #	
379	1352	B	11F	CC	6	SS32

Observer Li

LITHOLOGY: clay (dominant) biossiliceous rich. (minor)

COMPOSITION: % Terrigenous 60 % Biogenic 40 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
<u>0</u>	<u>5</u>	<u>95</u>

(= 100%)

**Abundance Code**  
 ≤ 1% = TR (trace)  
 1% - 10% = R (rare)  
 10% - 25% = C (common)  
 25% - 50% = A (abundant)  
 > 50% = D (dominant)

Ab. Code	Component
<b>SILICICLASTIC GRAINS/MINERALS</b>	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
<b>VOLCANIC/PLUTONIC GRAINS</b>	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
<b>ACCESSORY/TRACE MINERALS</b>	
	<u>Sheet Silicates</u>
	Biotite
	Muscovite
	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
	Glaucinite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component
<b>BIOGENIC GRAINS</b>	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
	Diatoms
	Silicoflagellates
<u>R</u>	Sponge spicules
<u>C</u>	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments: