

Leg	Site	Hole	Core	Section	Position (cm) in core Sm.Slide #	
B379	1533	B	2	1	135	SS1

Observer	Rothie
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LITHOLOGY: biosil-~~grey~~^{rich} clay (dominant) _____ (minor)

COMPOSITION: % Terrigenous 70 % Biogenic 30 (=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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
TR	Diatoms
	Silicoflagellates
R	Sponge spicules
C	Siliceous debris (undifferentiated) - 30%??
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

piece of core liner, or something else?

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	Z	Z	58	55 Z

Observer Ruthie

LITHOLOGY: biossil-bearing silty clay (dominant) _____ (minor)

COMPOSITION: % Terrigenous 85 % Biogenic 15 (=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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
<u>C</u>	Manganese Oxide <u>10/15%</u>
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
<u>R</u>	Fe-oxide / Fe-hydroxide <u>10/15%</u>

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
	Diatoms
	Silicoflagellates
<u>TR</u>	Sponge spicules
<u>C</u>	Siliceous debris (undifferentiated) <u>15</u>
	<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	1533	B	2	3	42	553

Observer	Rutvie
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LITHOLOGY: bio-rich silty clay (dominant) _____ (minor)

COMPOSITION: % Terrigenous 65 % Biogenic 35 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
5	20	75

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
R	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
	Biotite
	Muscovite
	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
R	Glauconite ~ 10%
	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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms
	Silicoflagellates
R	Sponge spicules
C	Siliceous debris (undifferentiated) ~30%
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

vitric grains - sand-size

flocculated

Leg	Site	Hole	Core	Section	Position (cm) in core Sm.Slide #	
379	1533	B	2H	4A	30	SS4

Observer	
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LITHOLOGY: _____ (dominant) _____ (minor)

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

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

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<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:

Leg	Site	Hole	Core	Section	Position (cm) in core Sm.Slide #	
	B3	B	2H	4A	04	85

Observer	OR
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LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	18	82

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
R	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
TR	Biotite
	Muscovite
	Chlorite
	<u>Fe-Mg silicates</u>
TR	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
	<u>Opaque Minerals</u>
	Pyrite
R	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<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:

Leg	Site	Hole	Core	Section	Position (cm) in core Sm.Slide #	
	1533	B	2H	5A	A9	SS6

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	18	82

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
R	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
	Biotite
TR	Muscovite
TC	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
R	Fe-oxide / Fe-hydroxide

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

Comments:

Leg	Site	Hole	Core	Section	Position (cm) in core Sm.Slide #	
	1833	B	2H	5A	89	587

Observer	
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LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
<u>1</u>	<u>14</u>	<u>85</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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
<u>C</u>	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<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:

Volcanic glass - lovely vitric grains & sphaera fragments

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	3H	4A	133	558

Observer	
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LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	60	40

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
A	Quartz
C	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
TR	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
R	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<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:

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	0	3H	5A	20	SS9

Observer	D.R.S.
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous _____ % Biogenic 20 (=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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
A	Quartz
C	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
TR	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	Sheet Silicates
TR	Biotite
	Muscovite
R	Chlorite
	Fe-Mg silicates
TR	Amphibole (hornblende)
	Garnet
TR	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
TR	Apatite
	Titanite (sphene)
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
	Fe-oxide / Fe-hydroxide

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

Comments:

plag - chem weathered

vitric

Leg	Site	Hole	Core	Section	Position (cm) in core Sm.Slide #	
379	1533	B	34	5A	66	SS10

Observer	DR CS
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous _____ % Biogenic 0 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
2	13	

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
C	Quartz
C	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
TR	Biotite
	Muscovite
R	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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
	Diatoms
	Silicoflagellates
TR	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	1533	B	3H	6A	11	SS11

Observer	DR CS
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous _____ % Biogenic 20 (=100%)

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

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
A	Quartz
C	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
	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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
TR	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	1533	B	3H	6A	131	SS12

Observer	DR CS
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous _____ % Biogenic 4 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	<u>8</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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
<u>A</u>	Quartz
<u>C</u>	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
<u>TR</u>	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
	Biotite
<u>TR</u>	Muscovite
<u>R</u>	Chlorite
	<u>Fe-Mg silicates</u>
<u>TR</u>	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
<u>TR</u>	<u>Rutile</u>
	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
<u>R</u>	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<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:

TR rutile

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	3H	2A	46	55 6

Observer	C5
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous 100 % Biogenic — (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
20	70	10

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
D	Quartz
C	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
TR	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
R	Biotite
	Muscovite
	Chlorite
	<u>Fe-Mg silicates</u>
R	Amphibole (hornblende)
	Garnet
	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
	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<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 #
379	1533	B	3H	2A	48	557

Observer _____

LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous 100 % Biogenic — (=100%)

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

(= 100%)

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

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

Ab. Code	Component
BIOGENIC GRAINS	
	<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:

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
399	1973	B	3H	7A	28	513

Observer DR, CS

LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	<u>10</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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
<u>A</u>	Quartz
<u>C</u>	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	Sheet Silicates
<u>TR</u>	Biotite
<u>R</u>	Muscovite
	Chlorite
	Fe-Mg silicates
<u>TR</u>	Amphibole (hornblende) <u>Subhedral</u>
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
<u>TR</u>	Zircon
<u>TR</u>	Apatite
	Titanite (sphene)
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
<u>R</u>	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<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:

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	4H	1A	146	8814

Observer _____

LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous _____ % Biogenic 12 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
<u>2</u>	<u>58</u>	<u>40</u>

(= 100%)

10% organic (plant)
2% biogenic silic.

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

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

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

Comments:

Resin debris (bearing)
very fine silt/clay

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
		B	4H	2A	25	SS15

Observer _____

LITHOLOGY: _____ (dominant) _____ (minor)

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

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

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
R	Quartz
TR	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
TR	Biotite
TR	Muscovite
TR	Chlorite
	<u>Fe-Mg silicates</u>
TR	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
	<u>Opaque Minerals</u>
	Pyrite
TR	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
	Diatoms
	Silicoflagellates
TR	Sponge spicules
TR	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 #
		B	AH	3A	119	SS16

Observer _____

LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
<u>2</u>	<u>18</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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
<u>R</u>	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
	Biotite
<u>tr</u>	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
<u>tr</u>	Fe-oxide / Fe-hydroxide

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

Comments:

Revin pod (picture provided)

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
		B	AH	5A	105	SS17

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	18	82

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
D	Quartz
TR	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
TR	Biotite
TR	Muscovite
TR	Chlorite
	<u>Fe-Mg silicates</u>
TR	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
BIOGENIC GRAINS	
	<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:

very fine silt size

Leg	Site	Hole	Core	Section	Position (cm) in core Sm.Slide #	
		B	4H	6A	12	5818

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous _____ % Biogenic _____ (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
2	58	40

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
C	Quartz
Tr	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
R	Biotite
Tr	Muscovite
Tr	Chlorite
	<u>Fe-Mg silicates</u>
Tr	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
	<u>Opaque Minerals</u>
	Pyrite
Tr	Fe-oxide / Fe-hydroxide

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

Comments:

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	5H	1A	68	SS22

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
<u>1</u>	<u>14</u>	<u>85</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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
<u>G</u>	Quartz
<u>R</u>	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
<u>TR</u>	Biotite
<u>TR</u>	Muscovite
<u>TR</u>	Chlorite
	<u>Fe-Mg silicates</u>
<u>TR</u>	Amphibole (hornblende)
	Garnet
<u>TR</u>	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
<u>TR</u>	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<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
<u>TR</u>	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1533	B	5H	1A	84	SS23

Observer _____

LITHOLOGY: _____ (dominant) _____ (minor)

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

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

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
C	Quartz
C	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
TR	Biotite
TR	Muscovite
JR	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
	<u>Opaque Minerals</u>
	Pyrite
R	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms
	Silicoflagellates
TR	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 #
349	1533	B	5H	4A	90	SS24

Observer _____

LITHOLOGY: _____ (dominant) _____ (minor)

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

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

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
A	Quartz
C	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	Sheet Silicates
TR	Biotite
	Muscovite
TR	Chlorite
	Fe-Mg silicates
TR	Amphibole (hornblende)
	Garnet
	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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
TR	Diatoms ✓
	Silicoflagellates
	Sponge spicules ✓
R	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

whole diatoms & sponge spicules

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1933	B	5H	5A	23	SS21

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous _____ % Biogenic 50 (=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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
<u>A</u>	Quartz
<u>C</u>	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
<u>TR</u>	Vitric grain (glass, pumice) <i>see p micr. gs.</i>
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
<u>TR</u>	Biotite
<u>TR</u>	Muscovite
<u>TR</u>	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
<u>TR</u>	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
<u>TR</u>	Fe-oxide / Fe-hydroxide

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

Comments:

darker color pod

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1533	B	5H	5A	32	SS20

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

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

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

Ab. Code	Component
BIOGENIC GRAINS	
	<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:

Wreck diatoms & sponge spicules
 (picture provided)
 biossiliceous-nu

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	5H	5A	105	SS19

Observer	Dr
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous _____ % Biogenic 15 (=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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
A	Quartz
C	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	Sheet Silicates
	Biotite
TR	Muscovite
TR	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
TR	Glaucanite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
TR	Fe-oxide / Fe-hydroxide

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

Comments:

Very fine silt + size
 diatoms & sponge spicules present

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	6H	4A	99	S25

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
TR	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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)
D	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
TR	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<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:

carbonate grains

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	6H	4A	122	5526

Observer	OR
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous _____ % Biogenic 35 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
<u>2</u>	<u>13</u>	<u>85</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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
<u>R</u>	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	Sheet Silicates
<u>TT</u>	Biotite
	Muscovite
	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
<u>TT</u>	Fe-oxide / Fe-hydroxide

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

Comments:

Whole diatoms & sponge spicules
(picture provided)

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1533	B	6H	6A	86	SS27

Observer	pk
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LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	60	40

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
A	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
R	Biotite
TR	Muscovite
TR	Chlorite
	<u>Fe-Mg silicates</u>
TR	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
	<u>Opaque Minerals</u>
	Pyrite
TR	Fe-oxide / Fe-hydroxide

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

Comments:

diatoms & sponge spicules & trace resin

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
B79	1533	B	6H	1A	114	5528

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	18	82

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
D	Quartz
TR	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
	Biotite
TT	Muscovite
TT	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
R	Fe-oxide / Fe-hydroxide

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

Comments:

diatom & sponge spicula fragments

very fine silt size

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
BA9	1533	B	GH	7A	30	8529

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous _____ % Biogenic 9 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	12	88

(= 100%)

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

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

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

Comments:

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	7H	1	5530	136um

Observer	Rutnie
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LITHOLOGY: muddy ooze (dominant) _____ (minor)

COMPOSITION: % Terrigenous 20 % Biogenic 80 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	30	70

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
TR	Fe-oxide / Fe-hydroxide

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

Comments:

image of spumellarium(?)
 radiolarian - sent to paleo

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	7H	3	5531	140 cm

Observer	Pvtine
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LITHOLOGY: bio-bearing silty clay (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	40	60

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
R	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
TR	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms
	Silicoflagellates
R	Sponge spicules
C	Siliceous debris (undifferentiated) — 20%?
	<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	1533	B	7H	6	122	5532

Observer	Rutwig
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LITHOLOGY: bio-rich silty clay (dominant) _____ (minor)

COMPOSITION: % Terrigenous 70 % Biogenic 30 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	30	70

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms ~ 70%
	Silicoflagellates
R	Sponge spicules
C	Siliceous debris (undifferentiated) ~ 20%
	<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	1533	B	8H	1	128	5533

Observer	Ruthie
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LITHOLOGY: muddy bio-sil. ooze (dominant) _____ (minor)

COMPOSITION: % Terrigenous 35 % Biogenic 65 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	50	50

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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>
R	Pyrite
R	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms
	Silicoflagellates
R	Sponge spicules
A	Siliceous debris (undifferentiated) ~50%
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

pyritized diatom fragment

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	8H	3	106	5534

Observer	Rutice
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LITHOLOGY: clayey bio-sil. ooze (dominant) _____ (minor)

COMPOSITION: % Terrigenous 30 % Biogenic 70 (=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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms
	Silicoflagellates
R	Sponge spicules
A	Siliceous debris (undifferentiated) ~50%
	<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	1533	B	8H	2	68	ss35

Observer Ruthie

LITHOLOGY: biosil-bearing silt (dominant) _____ (minor)

COMPOSITION: % Terrigenous 77 % Biogenic 23 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
2	83	15

(= 100%)

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

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

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	✓ Radiolarians TR + fragments (CS)
R	Diatoms ~ 5%
	Silicoflagellates
R	Sponge spicules ~ 3%
C	Siliceous debris (undifferentiated) ~ 15%
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

taken from coarser (sand or silt) lamination

significant biosil. cont

lots of green minerals!

Leg	Site	Hole	Core	Section	Position (cm) in core Sm.Slide #	
379	1533	B	8H	4	40	ss36

Observer	Rutwie
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LITHOLOGY: ^{muddy} biossil ooze (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	50	50

? (= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
TR	Radiolarians
R	Diatoms ~ 5%
	Silicoflagellates
R	Sponge spicules ~ 10%
A	Siliceous debris (undifferentiated) ~ 60%
	<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	1533	B	8H	5	66	5537

Observer	Rutnie
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LITHOLOGY: oil rich silty clay (dominant) _____ (minor)

COMPOSITION: % Terrigenous 65 % Biogenic 35 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	30	70

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
R	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms ~ 2%
	Silicoflagellates
R	Sponge spicules ~ 2%
A	Siliceous debris (undifferentiated) ~ 30-35%
	<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	1533	B	9H	2	40	SS 38

Observer	Rathie
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LITHOLOGY: biosil. - bearing clayey silt (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	60	40

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms
	Silicoflagellates
R	Sponge spicules
C	Siliceous debris (undifferentiated) ~20
	<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	153	B	9H	3	130	ss 39

Observer	Ruthie
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LITHOLOGY: biosil-ooze (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
R	Radiolarians - fragm. ~ 2%
C	Diatoms ~ 30%
	Silicoflagellates ~
A	Sponge spicules ~ 30%
C	Siliceous debris (undifferentiated) ~ 20%
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

many diatoms whole, unfragmented
(centric & pennate)

Star shaped fossil



Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
37A	1533	B	9H	4	140	5546

Observer	Ruthie
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LITHOLOGY: bisil-bearing silty clay (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	40	60

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
	Biotite
	Muscovite
TR	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>
R	Pyrite ~5%
TR	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<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)

40%
15%

Comments:

pyritized diatoms ~ 10% of observed fragments
 pyritized sponge spicules??

Leg	Site	Hole	Core	Section	Position (cm) in core Sm.Slide #	
379	1533	B	9H	5	19	SS41

Observer	Rutvie
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LITHOLOGY: biossil-bearing silty clay (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	<u>10</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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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>
<u>R</u>	Pyrite ~ 10%
	Fe-oxide / Fe-hydroxide

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

Comments:

from dark green (bowed) lamination

possible fungal spore

lot of clumped clay but otherwise no discernable difference

lot of opaque minerals - Mn or Pyrite
pyritized diatom fragment

Leg	Site	Hole	Core	Section	Position (cm) in core Sm.Slide #	
379	1533	B	9H	5	45	ss42

Observer	Ruthie
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LITHOLOGY: bio-sil-bearing silty clay (dominant) _____ (minor)

COMPOSITION: % Terrigenous 80 % Biogenic 20 (=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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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>
<u>R</u>	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
<u>R</u>	Diatoms ~ 10%+
	Silicoflagellates
<u>R</u>	Sponge spicules ~ 5%
<u>R</u>	Siliceous debris (undifferentiated) ~ 3%+
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

in highly disturbly soupy section,
but contained within less-disturbed
sections

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	9H	6A	60	5548

Observer	Ruthie
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LITHOLOGY: muddy biot. ooze (dominant) _____ (minor)

COMPOSITION: % Terrigenous 45 % Biogenic 55 (=100%)

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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
	Biotite
	Muscovite
	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
TR	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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
C	Diatoms ~15%
	Silicoflagellates
R	Sponge spicules ~10%
C	Siliceous debris (undifferentiated) ~20%-30%
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

(one) Spherule observed (picture)

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
3791	1533	B	9#	7	7	SS 44

Observer Ruthie

LITHOLOGY: bi-sil-rich clayey silt (dominant) _____ (minor)

COMPOSITION: % Terrigenous _____ % Biogenic 45 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	<u>45</u>	<u>55</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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
<u>TR</u>	Radiolarians ~ 1%
<u>C</u>	Diatoms ~ 20%
	Silicoflagellates
<u>C</u>	Sponge spicules ~ 15%
<u>R</u>	Siliceous debris (undifferentiated) ~ 10%
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

large fragments 1/2 intact
 smaller diatoms

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	104	1	80	5545

Observer Ruthie

LITHOLOGY: biosil.-bearing silty clay (dominant) _____ (minor)

COMPOSITION: % Terrigenous 80 % Biogenic 20 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	40	60

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	Sheet Silicates
	Biotite
	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>
R	Pyrite
R	Fe-oxide / Fe-hydroxide

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

Comments:

TR spherules

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	10H	1	110	5546

Observer	Ruthe
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LITHOLOGY: muddy beryl - ooze (dominant) _____ (minor)

COMPOSITION: % Terrigenous 30 % Biogenic 70 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	40	60

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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>
R	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
TR	Radiolarians
R	Diatoms ~10%
	Silicoflagellates
R	Sponge spicules ~10%
A	Siliceous debris (undifferentiated) ~50%
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

top of green/blue unit
 R spherules

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	10H	1	130	5547

Observer	Rutwie
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LITHOLOGY: muddy biosil-ooze (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	40	60

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
TR	Radiolarians
C	Diatoms
	Silicoflagellates
C	Sponge spicules
C	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

spherules (~2%)
 many intact diatoms & rad.s

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	10H	2	50	5548

Observer	Ruthie
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LITHOLOGY: bio-sil. bearing silty clay (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	20	70

(= 100%)

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

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

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms ~ 5%
	Silicoflagellates
R	Sponge spicules
R	Siliceous debris (undifferentiated) ~ 10%
	<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	1533	B	104	3	60	5549

Observer Rutvie

LITHOLOGY: Di-sil.-bearing silty clay (dominant) _____ (minor)

COMPOSITION: % Terrigenous 87 % Biogenic 13 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	<u>30</u>	<u>70</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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
<u>R</u>	Diatoms ~ 5% ₆
	Silicoflagellates
<u>R</u>	Sponge spicules ~ 3% ₆
<u>R</u>	Siliceous debris (undifferentiated) ~ 5% ₆
	<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	1533	B	10H	5	110	ss 50

Observer Ruthie

LITHOLOGY: sand (dominant) _____ (minor)

COMPOSITION: % Terrigenous 100 % Biogenic _____ (=100%)

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

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
	Biotite
	Muscovite
	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
TR	Glauconite (detrital)
	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
BIOGENIC GRAINS	
	<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:

well-sorted sand

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	104	5	134	SS51

Observer Rutim

LITHOLOGY: biosil. bearing silty clay (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	30	70

(= 100%)

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

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

Ab. Code	Component
BIOGENIC GRAINS	
	<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)

10%
5%

Comments:

pyritized diatom fragments

TR spherules

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1533	B	114	1A	122	5552

Observer JP

LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous 99 % Biogenic 1 (=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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
R	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
	Biotite
TR	Muscovite
TR	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
R	Fe-oxide / Fe-hydroxide

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

Comments:

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	11H	3A	78	SS53

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	18	82

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
R	Quartz
Tr	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	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
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
R	Fe-oxide / Fe-hydroxide

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

Comments:

very fine silt size grains

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
779	1533	B	11H	7A	87	SS54

Observer JR

LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous _____ % Biogenic 25 (=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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
R	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
	Biotite
TR	Muscovite
TR	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
R	Fe-oxide / Fe-hydroxide

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

Comments:

diatom & sponge spicule fragments

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
3A9	1533	B	2H	5A	122	8555

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous 100 % Biogenic 0 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
18	77	5

(= 100%)

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

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

Ab. Code	Component
BIOGENIC GRAINS	
	<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:

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1533	B	12H	1A	72	SS56

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	18	82

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
R	Quartz
TR	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
TR	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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>
	Glauconite
	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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms
	Silicoflagellates
TR	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

Whole diatoms & sponge spicules present

Very fine silt size grains

glass spherules present

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1533	B	12H	4A	83	8857

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	18	82

(= 100%)

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

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

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

Comments:

diatom & sponge spicule fragments
 TR vitric spherules
 Very fine silt size grains

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm. Slide #
379	1577	B	12H	7A	53	JS58

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous 80 % Biogenic 20 (=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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
R	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
R	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	Sheet Silicates
TR	Biotite
TR	Muscovite
	Chlorite
	Fe-Mg silicates
TR	Amphibole (hornblende)
	Garnet
TR	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
TR	Fe-oxide / Fe-hydroxide

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

Comments:

Whole diatoms & sponge spicules present & glass spherules (tectite sp) (picture provided)

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1533	B	134	1A	91	SS59

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous 70 % Biogenic 30 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	40	60

(= 100%)

Volcaniclastic-rich

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
C	Quartz
C	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
TR	Euhedral crystals
C	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
	Biotite
	Muscovite
TR	Chlorite
	<u>Fe-Mg silicates</u>
TR	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
TR	Glauconite
	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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
TR	Radiolarians
C	Diatoms
	Silicoflagellates
R	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

pumice (picture provided)

SOFT clast (material)

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1573	B	134	1A	115	SS 60

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

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

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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
C	Quartz
C	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
R	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
TR	Biotite
R	Muscovite
TR	Chlorite
	<u>Fe-Mg silicates</u>
TR	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
	<u>Opaque Minerals</u>
	Pyrite
R	Fe-oxide / Fe-hydroxide

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

Comments:

R spherules

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
279	1533	B	13H	2A	19	SS 61

Observer DR

LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	<u>20</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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
<u>C</u>	Quartz
<u>C</u>	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
<u>R</u>	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
	Biotite
	Muscovite
	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
<u>TR</u>	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
<u>TR</u>	Fe-oxide / Fe-hydroxide

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

Comments:

Very fine

Volcanic glass & spherules

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
179	1533	B	13H	3A	76.5	SS 62

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

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

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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
C	Quartz
C	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
TR	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
	Biotite
R	Muscovite
TR	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
TR	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
	Glauconite
	Chert
	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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
TR	Diatoms
	Silicoflagellates
TR	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
TR	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

very fine

Leg	Site	Hole	Core	Section	Position (cm) in core Sm.Slide #	
379	1533	B	13H	5A	86	5563

Observer	
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LITHOLOGY: _____ (dominant) _____ (minor)

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

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

Ab. Code	Component
BIOGENIC GRAINS	
	<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:

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1533	B	14H	1A	111	SS 64

Observer	
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous _____ % Biogenic 20 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
1	15	84

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
C	Quartz
C	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
TR	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
TR	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
	<u>Opaque Minerals</u>
	Pyrite
R	Fe-oxide / Fe-hydroxide

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

Comments:

most silt size grains
are biosilic. fragments

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	14H	2A	71.5	SS65

Observer	
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous _____ % Biogenic 20 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	12	

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
C	Quartz
A	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
	Biotite
C	Muscovite
	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
TR	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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
TR	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

Very fine silt

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
319	1533	B	14H	AA	63	SS66

Observer	
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LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	<u>20</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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
<u>C</u>	Quartz
<u>C</u>	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
<u>TR</u>	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
<u>TR</u>	Biotite
	Muscovite
<u>TR</u>	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
	Glauconite
	Chert
<u>TR</u>	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
<u>R</u>	Fe-oxide / Fe-hydroxide

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

Comments:

diatom & sponge spicules

Volcanic spicules & glass

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
399	1820	B	14H	5A	76	SS67

Observer _____

LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	25	75

(= 100%)

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

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

Ab. Code	Component
BIOGENIC GRAINS	
	<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:
Very fine

* candidate for age dating

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm. Slide #
379	1533	B	15H	<u>6W</u>	125	68

Observer	CS
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LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliclastic texture (%)		
% Sand	% Silt	% Clay
1	88	11

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
D	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
C	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	Sheet Silicates
C	Biotite
TR	Muscovite
C	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
TR	Pyroxene
	Olivine
TR	<u>Epidote</u>
	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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
TR	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

Two v. thin, sharp bands, ~ 1 mm thick separated by clay horizon



- tested for vitric grains

Anomalous abundance of Fe-Mg silicate grains

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	15	6W	125	

Observer	CS
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LITHOLOGY: silt (dominant) _____ (minor)

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

Siliclastic texture (%)		
% Sand	% Silt	% Clay
3	77	20

(= 100%)

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

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

Ab. Code	Component
BIOGENIC GRAINS	
	<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:

B-15-6W
125cm

All "R" except Mn

Leg	Site	Hole	Core	Section	Position (cm) in core Sm.Slide #	
379	1537	B	15H	2A	82	5569

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

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

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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
R	Quartz
tr	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
tr	Biotite
	Muscovite
tr	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
tr	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<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
tr	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
399	1533	B	15H	4A	73	SS70

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	25	75

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
R	Quartz
TR	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
TR	Biotite
TR	Muscovite
TR	Chlorite
	<u>Fe-Mg silicates</u>
TR	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
TR	Fe-oxide / Fe-hydroxide

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

Comments:

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	15H	5A	20	SS71

Observer	DK
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LITHOLOGY: _____ (dominant) _____ (minor)

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

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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
R	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
TR	Biotite
TR	Muscovite
TR	Chlorite
	<u>Fe-Mg silicates</u>
TR	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
TR	Fe-oxide / Fe-hydroxide

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

Comments:

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	16H	1A	37	SS72

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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
<u>A</u>	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
<u>TR</u>	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
<u>TR</u>	Biotite
<u>TR</u>	Muscovite
<u>TR</u>	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
<u>TR</u>	Glauconite
	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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
<u>R</u>	Diatoms
	Silicoflagellates
<u>TR</u>	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
<u>TR</u>	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

Whole diatoms & sponge spicules

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	16H	5A	20	5573

Observer	DK
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LITHOLOGY: _____ (dominant) _____ (minor)

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

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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
R	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
R	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
	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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms
	Silicoflagellates
R	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
tr	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	16H	6A	7	887A

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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
<u>R</u>	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
<u>A</u>	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
<u>TR</u>	Biotite
<u>TT</u>	Muscovite
<u>TT</u>	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
<u>TR</u>	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<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>
<u>TT</u>	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1533	B	174	2	73	SS88

Observer	Law
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LITHOLOGY: clay (dominant) _____ (minor)

COMPOSITION: % Terrigenous 95 % Biogenic 5 (=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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
T12	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	1533	B	17A	3	64.5	5589

Observer	W
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LITHOLOGY: Carbonates (dominant) _____ (minor)

COMPOSITION: % Terrigenous 100% % Biogenic 0 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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)
D	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<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:

grain size $\leq 1\mu$.
 fine grained carbonate
 $\approx 99\%$



Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
378	1535	B	17A	4	67	SS90

Observer LW

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

COMPOSITION: % Terrigenous 60 % Biogenic 40 (=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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
<u>A</u>	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	1533	B	17A	5	88	4491

Observer	LW
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LITHOLOGY: clay (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
0	5	95

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
TR	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	1533	B	18H	1	5.5	4577

Observer	CIDH
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LITHOLOGY: clay (dominant) bigenic-bearing (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
0	70	30

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
<u>2</u>	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	1533	B	18H	1	62	5576

Observer	W
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LITHOLOGY: silty clay (dominant) biogenic - beads (minor)

COMPOSITION: % Terrigenous 80 % Biogenic 20 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
0	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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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>
R	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
	Diatoms
C	Silicoflagellates
C	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	1533	B	18H	3	86	ss 79

Observer CDH

LITHOLOGY: silty clay (dominant) _____ (minor)

COMPOSITION: % Terrigenous 98 % Biogenic 2 (=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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
<u>TR</u>	Diatoms
	Silicoflagellates
<u>TR</u>	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	1533	B	18H	5	86.5	SS78

Observer	CDH
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LITHOLOGY: biossil-rich silty clay (dominant) _____ (minor)

COMPOSITION: % Terrigenous 70 % Biogenic 30 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	30	70

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
	Fe-oxide / Fe-hydroxide

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

Comments:

from small green unit

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
378	1533	B	18H	6	71.5	5575

Observer	W
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LITHOLOGY: Carbonates (dominant) _____ (minor)

COMPOSITION: % Terrigenous 100% % Biogenic 0 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
<u>0</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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
<u>D</u>	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	Sheet Silicates
	Biotite
	Muscovite
	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
<u>D</u>	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<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:

> 95% carbonates
 < 5% Quartz

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
79	1533	B	19H	1	105-5	SSQ2

Observer	ll
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LITHOLOGY: clay (dominant) Bio-siliceous-bearing (minor)

COMPOSITION: % Terrigenous 80 % Biogenic 20 (=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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	Sheet Silicates
	Biotite
	Muscovite
	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
	Fe-oxide / Fe-hydroxide

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

Comments:

a Pyritized diatom



Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1533	B	BH	2	76.5	35 93

Observer U

LITHOLOGY: clay (dominant) bi-siliceous-beaving (minor)

COMPOSITION: % Terrigenous 90 % Biogenic 10 (=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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
<u>C</u>	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<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:

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
3R	1533	B	2F	3	28	594

Observer	SP
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LITHOLOGY: clay (dominant) _____ (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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
3%	Diatoms
	Silicoflagellates
< 1%	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	1533	B	WF	3	37	5595

Observer SP

LITHOLOGY: diatom-bearing clay (dominant) _____ (minor)

COMPOSITION: % Terrigenous 88% % Biogenic 12% (=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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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>3%</u>	<u>Opaque Minerals</u>
	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
<u>1%</u>	Radiolarians
<u>10%</u>	Diatoms
	Silicoflagellates
<u>1%</u>	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 #
378	1533	B	20F	CC	11	5597

Observer	SP
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LITHOLOGY: diatom-bearing clay (dominant) _____ (minor)

COMPOSITION: % Terrigenous 76 % Biogenic 24 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
5	10	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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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>3%</u>	<u>Opaque Minerals</u>
	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
<u>3%</u>	Radiolarians
<u>20%</u>	Diatoms
	Silicoflagellates
<u>1%</u>	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 #	
278	1533	B	20F	4	34	5586

Observer	SP
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LITHOLOGY: clay (dominant) _____ (minor)

COMPOSITION: % Terrigenous 94% % Biogenic 6% (=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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
1%	Radiolarians
5%	Diatoms
	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 #
399	1533	B	21F	1A	112	SS98

Observer DR

LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
1	84	15

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
A	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
TR	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
R	Biotite
TR	Muscovite
R	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
C	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
TR	Diatoms
	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	1533	B	21F	2A	77	5599

Observer DR

LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	<u>20</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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
<u>R</u>	Quartz
<u>TR</u>	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
<u>TR</u>	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
<u>TR</u>	Biotite
<u>R</u>	Muscovite
<u>TR</u>	Chlorite
	<u>Fe-Mg silicates</u>
<u>TR</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
<u>R</u>	Fe-oxide / Fe-hydroxide

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

Comments:

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1333	B	21F	3A	15.5cm	SS100

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
2	78	20

(= 100%)

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

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

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
TR	Radiolarians
R	Diatoms
	Silicoflagellates
TR	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	1533	B	22F	1A	60	S101

Observer ME

LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
0	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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
TR	Quartz
TR	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
TR	Biotite
	Muscovite
	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
	Glauconite
	Chert
	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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
TR	Radiolarians
TR	Diatoms
	Silicoflagellates
TR	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

→ pyritised diatom fragment

→ Benthic diatom fragments

‘cocconeis’

→ TR → dichroic fragment
Dumortierite?

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1533	B	22F	3A	59	SS102

Observer	
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LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
0	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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
R	Quartz
TR	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	Sheet Silicates
TR	Biotite
TR	Muscovite
	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
TR	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
TR	Radiolarians
TR	Diatoms
	Silicoflagellates
TR	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	1533	B	22F	3A	101	SS103

Observer	
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LITHOLOGY: Clay (dominant) Silt (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
1	20	79

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	<u>Framework minerals</u>
R	Quartz
TR	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
TR	Biotite
	Muscovite
TR	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
TR	Fe-oxide / Fe-hydroxide

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

Comments:

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	23X	1	20	ss104

Observer	SP
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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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

fall-in, or part of core?

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	23X	2	35	55105

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

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms
	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	1533	B	24X	1	137	ss 106

Observer Rothie

LITHOLOGY: diatom-bearing silty clay (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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
<u>R</u>	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
	Fe-oxide / Fe-hydroxide

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

Comments:

pyrite or Mn - ~~5%~~ ~ 5%

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1533	B	24X	2	66	SS107

Observer	
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LITHOLOGY: muddy diatom ooze (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	50	50

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
TR	Radiolarians
D	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

large fragments

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	24X	3	24	ss 108

Observer Putnie

LITHOLOGY: diatom-bearing clay (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	<u>15</u>	<u>85</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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
<u>R</u>	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
<u>R</u>	Diatoms <u>~5</u>
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated) <u>~8%</u>
	<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	1533	B	24X	CC	12	SS109

Observer Ruthie

LITHOLOGY: biosil.-bearing clay (dominant) _____ (minor)

COMPOSITION: % Terrigenous 80 % Biogenic 20 (=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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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>
<u>R</u>	Pyrite
	Fe-oxide / Fe-hydroxide

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

Comments:

pyritized diatoms

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	25X	3	110	SS110

Observer _____

LITHOLOGY: bioclit-bearing clay (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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	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 #
379	1533	B	25X	4	124	55111

Observer Rutwie

LITHOLOGY: biosil-bearing clay (dominant) _____ (minor)

COMPOSITION: % Terrigenous 80 % Biogenic 20 (=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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	Sheet Silicates
	Biotite
	Muscovite
	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
TR	Radiolarians
R	Diatoms ~90
	Silicoflagellates
	Sponge spicules
R	Siliceous debris (undifferentiated) ~10
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

~3%? spherules 0

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
37 ^A	533	B	25X	5	93	SS112

Observer	
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LITHOLOGY: biosil.-bearing clayey silt (dominant) _____ (minor)

COMPOSITION: % Terrigenous 88 % Biogenic 12 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
5	55	40

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
R	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
TR	Radiolarians
R	Diatoms ~ 7%
	Silicoflagellates
TR	Sponge spicules
R	Siliceous debris (undifferentiated) ~ 5
	<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	1533	B	26x	1A	51	SS113

Observer DR

LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
15	70	15

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
<u>C</u>	Quartz
	Feldspar
	K-feldspar
	Plagioclase
<u>C</u>	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<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:

Smear slide attempt from
clast rich unit

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	26X	1A	69	SS114

Observer DR

LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous 96 % Biogenic 4 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
1	20	79

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
R	Quartz
R	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
TR	Biotite
TR	Muscovite
TR	Chlorite
	<u>Fe-Mg silicates</u>
TR	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
TR	Fe-oxide / Fe-hydroxide

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

Comments:

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	033	B	26X	2A	72	S0115

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

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms
	Silicoflagellates
TR	Sponge spicules
TR	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	1533	B	26X	AA	14	SS116

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous 92 % Biogenic 8 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	25	75

(= 100%)

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

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

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

Comments:

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	SB	B	26X	CC	18	SS117

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous 88 % Biogenic 12 (=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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
<u>R</u>	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
<u>TR</u>	Euhedral crystals
<u>TR</u>	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
<u>TR</u>	Biotite
<u>R</u>	Muscovite
<u>TR</u>	Chlorite
	<u>Fe-Mg silicates</u>
<u>TR</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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
<u>TR</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:

volcanic grains present.

Some diatom fragments are identified

(Terrible slide, sorry)

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1533	B	27X	1A	26	SS118

Observer	D/R
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous 92 % Biogenic 8 (=100%)

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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
R	Quartz
TR	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
TR	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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>
	Glauconite
	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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms
	Silicoflagellates
TR	Sponge spicules
TR	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	1533	B	27X	1A	26	55119

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous 92 % Biogenic 8 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
2	28	70

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
C	Quartz
R	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
TR	Euhedral crystals
TR	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
TR	Biotite
TR	Muscovite
TR	Chlorite
	<u>Fe-Mg silicates</u>
TR	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
	<u>Opaque Minerals</u>
	Pyrite
TR	Fe-oxide / Fe-hydroxide

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

Comments:

Volcanic grains and diatoms & sponge spicule fragments present.

taken from silt pod.

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1533	B	27X	3A	115	SS120

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous 94 % Biogenic 6 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	25	75

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
R	Quartz
TR	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
TR	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
	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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
TR	Radiolarians
R	Diatoms
	Silicoflagellates
TR	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	1533	B	27X	5A	98	SS121

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	40	60

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
A	Quartz
R	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
TR	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
R	Biotite
	Muscovite
R	Chlorite
	<u>Fe-Mg silicates</u>
TR	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
	<u>Opaque Minerals</u>
	Pyrite
R	Fe-oxide / Fe-hydroxide

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

Comments:

Taken from silt layer

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1533	B	27X	6A	64	SS/22

Observer	PR
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LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
3	77	20

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
A	Quartz
R	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
TR	Euhedral crystals
TR	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
R	Biotite
TR	Muscovite
R	Chlorite
	<u>Fe-Mg silicates</u>
TR	Amphibole (hornblende)
	Garnet
TR	Pyroxene
TR	Olivine
	<u>Other indicator minerals</u>
TR	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
BIOGENIC GRAINS	
	<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:

Taken from silt layer.

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	28X	2A	71	SS123

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

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

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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
R	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
TR	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
TR	Biotite
TR	Muscovite
TR	Chlorite
	<u>Fe-Mg silicates</u>
TR	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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms
	Silicoflagellates
TR	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	1533	B	28x	3A	81	SS/24

Observer	
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LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	25	75

(= 100%)

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

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

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

Comments:

pyritized diatom & sponge spicule fragments.

Volcanic glass present.

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1533	B	28x	3A	96	SS125

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
10	70	20

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
A	Quartz
R	Feldspar
	K-feldspar
	Plagioclase
TR	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
TR	Euhedral crystals
TR	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
R	Biotite
TR	Muscovite
R	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
R	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
TR	Glauconite
	Chert
TR	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
BIOGENIC GRAINS	
	<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:

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	29X	2	62	SS126

Observer	BJR
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379 U1533B 29X2 A
62 62 ss126

 889785721

LITHOLOGY: silty clay (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	25	75

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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>
R	Pyrite
	Fe-oxide / Fe-hydroxide

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

Comments:

pyritized diatom fragment

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
579	1533	B	30X	2	94	ss 127

Observer	Ruthie
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LITHOLOGY: silty clay (dominant) _____ (minor)

COMPOSITION: % Terrigenous 100 % Biogenic 0 (=100%)

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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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>
R	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<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:

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	30P	2	112.5	SS 33 128

Observer	
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous 93 % Biogenic 7 (=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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	Sheet Silicates
	Biotite
	Muscovite
	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
TR	Radiolarians
TR	Diatoms 5%
	Silicoflagellates
TR	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 #
			39R	1	61	SS 129

Observer	
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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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
TR	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
E	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

Pyritized diatoms
 diatom bearing clay
 diatom debris observed
 under cross polarized
 light ??

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
			39R	1	140	SS130

Observer	
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LITHOLOGY: clay (dominant) diatoms beaver (minor)

COMPOSITION: % Terrigenous 0.5% % Biogenic 15% (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
0	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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
<u>TR</u>	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
<u>C</u>	Diatoms
	Silicoflagellates
<u>TR</u>	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 #
			3RR	2	109	55731

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

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

Comments:

Pyritized diatoms

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1533	B	39R	2	120.5	132

Observer	
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous 75 % Biogenic 25 (=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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
A	Diatoms 25%
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

Diatom rich clay

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1533	B	39R	3	23	ss 133

Observer	
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LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	40	60

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms 9%
	Silicoflagellates
TR	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments: carbonate
 Dominant is carbonate

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1533	B	39R	4	15	SS134

Observer _____

LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous 40 % 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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
C	Diatoms 10%
	Silicoflagellates
TR	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	1533	B	39R	2	63	135

Observer _____

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

COMPOSITION: % Terrigenous 73 % Biogenic 27% (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	12	88

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	Sheet Silicates
	Biotite
	Muscovite
D	Chlorite ~1%
	Fe-Mg silicates
TR	Amphibole (hornblende) green.
	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>
D	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
tr	Radiolarians
25%	Diatoms
	Silicoflagellates
R	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

pyritized diatoms (tr)
complete diatoms and
fragments

Very high relief
un-identified grains

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1533	B	41R	1A	74	SSB6

Observer DR

LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	25	75

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
R	Quartz
TR	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
TR	Biotite
TR	Muscovite
TR	Chlorite
	<u>Fe-Mg silicates</u>
TR	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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
TR	Radiolarians
R	Diatoms
	Silicoflagellates
TR	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
TR	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1533	B	42R	2A	99	JS188

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

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

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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
R	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
TR	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
TR	Biotite
TR	Muscovite
TR	Chlorite
	<u>Fe-Mg silicates</u>
TR	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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
R	Radiolarians
C	Diatoms
	Silicoflagellates
R	Sponge spicules
TR	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	1533	B	42R	3A	38	SS139

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous 80 % Biogenic 20 (=100%)

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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
R	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
	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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
TR	Radiolarians
R	Diatoms
	Silicoflagellates
R	Sponge spicules
TR	Siliceous debris (undifferentiated)
	<u>Others</u>
TR	Organic Debris
	Plant Debris
TR	Fish Remains (teeth, bones, scales)

Comments:

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1533	B	42R	3A	48	SS140

Observer _____

LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous 50 % Biogenic 50 (=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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
R	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
TR	Euhedral crystals
TR	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	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)
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
R	Fe-oxide / Fe-hydroxide

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

Comments:

Whole diatoms present.
Radiolarian fragments present
(picture provided)

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1533	B	42R	AA	52	SS141

Observer	OR
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LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	30	70

(= 100%)

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

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

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
R	Radiolarians
C	Diatoms
	Silicoflagellates
R	Sponge spicules
TR	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	1533	B	42R	4A	57	SP142

Observer	PR
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous 50 % Biogenic 50 (=100%)

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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
R	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
TR	Biotite
TR	Muscovite
TR	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
	<u>Opaque Minerals</u>
	Pyrite
R	Fe-oxide / Fe-hydroxide

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

Comments:

whole diatoms present.

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1533	B	42R	4A	135	SS145

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous 55 % Biogenic 45 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
3	20	77

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
R	Quartz
R	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
TR	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
TR	Biotite
TR	Muscovite
R	Chlorite
	<u>Fe-Mg silicates</u>
TR	Amphibole (hornblende)
	Garnet
TR	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
TR	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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
R	Radiolarians
C	Diatoms
	Silicoflagellates
R	Sponge spicules
TR	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	1533	B	42R	5A	46	SS143

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

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

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

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

Comments:

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	13R	1A	97	05149

Observer	
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous 92 % Biogenic 8 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
<u>3</u>	<u>65</u>	<u>32</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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
<u>C</u>	Quartz
<u>TR</u>	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
<u>R</u>	Biotite
<u>TR</u>	Muscovite
<u>R</u>	Chlorite
	<u>Fe-Mg silicates</u>
<u>TR</u>	Amphibole (hornblende)
	Garnet
<u>TR</u>	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
<u>A</u>	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
<u>R</u>	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
<u>TR</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:

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1533	B	43R	1A	96	88148

Observer	
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous 92 % Biogenic 8 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	75	25

(= 100%)

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

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

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
R	Diatoms
	Silicoflagellates
R	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	1533	B	A3R	1A	28	SS146

Observer _____

LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous 60 % Biogenic 40 (=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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
<u>R</u>	Quartz
<u>TR</u>	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
<u>TR</u>	Biotite
<u>TR</u>	Muscovite
<u>TR</u>	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
<u>TR</u>	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
<u>TR</u>	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
<u>R</u>	Radiolarians
<u>C</u>	Diatoms
	Silicoflagellates
<u>R</u>	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	1533	B	2	4W	149	2019 0308-1 -2

Observer CS

needle like Zn, Ape

LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous 100 % Biogenic _____ (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
D	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<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:

09 March 19 f Christies

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
	1533	B	18H	5W	133	

Observer	CS
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LITHOLOGY: silty clay ^{side} (dominant) _____ (minor)

COMPOSITION: % Terrigenous 98 % Biogenic 1 to 2 (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay
	30	70

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
C	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians ✓ <i>small fragm</i>
	Diatoms ✓
	Silicoflagellates
	Sponge spicules ✓
R	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

Core had moderate flow in / disturbance. This ss taken from a "greenish" band along the right side of "W" half

Plagioclase fsp is weathered - sericitized. Interior is dark w/ disloc., etc. Rims show up brightly in XPL

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	25	2	113	

Observer	CS
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LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<u>Sheet Silicates</u>
X	Biotite
	Muscovite
X	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
	Glauconite
	Chert
X	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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians ✓
	Diatoms ✓
	Silicoflagellates
X	Sponge spicules ✓
X	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	1533	B	29X	1W	120	

Observer	CS
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous _____ % Biogenic _____ (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
	VOLCANIC/PLUTONIC GRAINS
R	Euhedral crystals
A	Vitric grain (glass, pumice)
	Palagonite (altered glass)
	ACCESSORY/TRACE MINERALS
	<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
BIOGENIC GRAINS	
	<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:

Glass "C" @ 20X
 suspended
 But is in a flow-in layer,
 so no.

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	29X	1W	135	

Observer CS

LITHOLOGY: _____ (dominant) _____ (minor)

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

Siliciclastic texture (%)		
% Sand	% Silt	% Clay

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
<i>Abundant</i>	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
<i>R</i>	Euhedral crystals
<i>C</i>	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<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:

Glass v.f.g (50x)

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
379	1533	B	29X	1W	144.5	

Observer	CS
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous _____ % Biogenic _____ (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
✓	Framework minerals
✓	Quartz
✓	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
XX	Euhedral crystals - <i>acicular</i>
X	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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)
	<u>Carbonate</u>
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
	<u>Opaque Minerals</u>
	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<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:

mostly silt,
 "C" vitric

Leg	Site	Hole	Core	Section	Position (cm) in core Sm.Slide #	
379	1533	B	42R	1A	63	SD137

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

Ab. Code	Component
BIOGENIC GRAINS	
	<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:

taken from thinned darker layer.

Leg	Site	Hole	Core	Section	Position (cm)	
					in core	Sm.Slide #
379	1533	B	43R	1A	70	SS147

Observer	DR
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous 99 % Biogenic 1 (=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
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
R	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<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 lithified layer (chert?)

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
	1533	D	3H	4A	9	

Observer	CS
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous _____ % Biogenic _____ (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
R	Vitric grain (glass, pumice) 10 to 30 μm
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	Sheet Silicates
	Biotite
TR	Muscovite
	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	<u>Other indicator minerals</u>
	Glauconite
	Chert
	Zircon
IR	Apatite
	Titanite (sphene)
	Carbonate
	<u>Authigenic minerals</u>
	Barite
	Manganese Oxide
	Zeolite
-C	<u>Opaque Minerals</u> ? charcoal or organic?
	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
R	Siliceous debris (undifferentiated)
	<u>Others</u>
R	Organic Debris resin 5-40 μm
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

silty clay

Leg	Site	Hole	Core	Section	Position (cm) in core	Sm.Slide #
	1553	D	3H	4A	94	

Observer	CS
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LITHOLOGY: _____ (dominant) _____ (minor)

COMPOSITION: % Terrigenous _____ % Biogenic _____ (=100%)

Siliciclastic texture (%)		
% Sand	% Silt	% Clay

(= 100%)

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

Ab. Code	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
D	Quartz
D	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCANIC/PLUTONIC GRAINS	
	Euhedral crystals
TR	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCESSORY/TRACE MINERALS	
	<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
BIOGENIC GRAINS	
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
X	Organic Debris <i>resin</i>
	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

Varied silicates, v. fresh!