

Sediment Smear Slide / Tephra Description

Expedition: 362

Site: V1480

Hole: C

Core: 1H

Sect.: 6A

Date: 8.16.16

Observer: Foid

Interval: 9203

C/A/D/R/T	Vitric Components
	Color
	Glass (pyroclasts)
D	Glass (pyroclasts), brown or colored
C/A/D/R/T	Shape
D	Blocky
C	Cusped
A	Pumiceous
C/A/D/R/T	Vesicle Content/Shape
C	Non-vesicular
R	Round
	Elliptical
A	Elongated <i>Haberman</i>
C/A/D/R/T	Crystalline Lithic
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
R	Pyroxene <i>1/2 per. silica</i>
	Amphibole
C	Biotite
	Zircon
	Quartz
C	Feldspar
Tr	Other* <i>Aluminosilicate</i>
C/A/D/R/T	Admixed components
	Lithic Fragment
	Clay minerals
	Fossil debris
	Authigenic mineral*

Comments:

✓
SIC

Remarks:

Sediment Smear Slide / Tephra Description

Expedition: 362

Site: U1480

Hole: C

Core: 14

Sect.: 60

Date: 8.16.16

Observer: Farid

Interval: 106 - 107

Comments:

Enstatit
BKL ✓

C/A/D/R/T	Vitric Components
	<i>Color</i>
	Glass (pyroclasts)
D	Glass (pyroclasts), brown or colored
C/A/D/R/T	<i>Shape</i>
A	Blocky
GA	Cusped
A	Pumiceous
C/A/D/R/T	<i>Vesicle Content/Shape</i>
D	Non-vesicular
R	Round
R	Elliptical
C	Elongated
C/A/D/R/T	<i>Crystalline Lithic</i>
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
C	Pyroxene
R	Amphibole
C	Biotite
	Zircon
R	Quartz
R	Feldspar
	Other*
C/A/D/R/T	<i>Admixed components</i>
	Lithic Fragment
	Clay minerals
	Fossil debris
	Authigenic mineral*

Enstatit

Remarks: OPADOE

Sediment Smear Slide / Tephra Description

Date: 8/13/16

Expedition: 362

Observer:

Site: V1480

Hole: E

Core: 2

Sect.: 1

Interval: 92

C/A/D/R/T	Vitric Components
	Color
D	Glass (pyroclasts)
	Glass (pyroclasts), brown or colored
C/A/D/R/T	Shape
D	Blocky
C	Cusped
R	Pumiceous
C/A/D/R/T	Vesicle Content/Shape
D	Non-vesicular
	Round
	Elliptical
R	Elongate
C	Tubular
C/A/D/R/T	Crystalline Lithic
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
	Pyroxene
	Amphibole
R	Biotite
	Zircon
R	Quartz
R	Feldspar
	Other*
C/A/D/R/T	Admixed components
	Lithic Fragment
R	Clay minerals
	Fossil debris
	Authigenic mineral*

Comments: SKJ ✓

Remarks:

Sediment Smear Slide / Tephra Description

Date: 8/13/2016

Expedition: 362

Observer: F. R. C.

Site: U1480

Hole: E

Core: 3 H

Sect.: 1A

Interval: 2-3

C/A/D/R/T	Vitric Components
	Color
D	Glass (pyroclasts)
R	Glass (pyroclasts), brown or colored
C/A/D/R/T	Shape
C	Blocky
A	Cusped
A	Pumiceous
C/A/D/R/T	Vesicle Content/Shape
A	Non-vesicular
R	Round
	Elliptical
C	Elongate
A	Tubular
C/A/D/R/T	Crystalline Lithic
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
Tr	Pyroxene
R	Amphibole
C	Biotite
	Zircon
C	Quartz
C	Feldspar
Tr	Other*
C/A/D/R/T	Admixed components
	Lithic Fragment
	Clay minerals
	Fossil debris
	Authigenic mineral*

Allanite

Comments: *SR*

Remarks:

Sediment Smear Slide / Tephra Description

Date: 13/8/2016

Expedition: 362

Observer: F. 110

Site: U 11/80

Hole: E

Core: 3H


Sect.: 1A

Interval: 40-41

C/A/D/R/T	Vitric Components
	Color
D	Glass (pyroclasts)
	Glass (pyroclasts), brown or colored
C/A/D/R/T	Shape
D	Blocky
C	Cusped
A	Pumiceous
C/A/D/R/T	Vesicle Content/Shape
D	Non-vesicular
R	Round
	Elliptical
	Elongate
A	Tubular
C/A/D/R/T	Crystalline Lithic
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
	Pyroxene
D	Amphibole
C	Biotite
	Zircon
C	Quartz
C	Feldspar
	Other*
C/A/D/R/T	Admixed components
	Lithic Fragment
	Clay minerals
	Fossil debris
	Authigenic mineral*

Comments:



Remarks:

Sediment Smear Slide / Tephra Description

Date: 8.14.2016

Expedition: 362

Observer: FaeID

Site: 01480

Hole: E

Core: 3H

Sect.: SA

Interval: 7576

Comments:

SK C

C/A/D/R/T	Vitric Components
	<i>Color</i>
D	Glass (pyroclasts)
	Glass (pyroclasts), brown or colored
<i>C/A/D/R/T</i>	<i>Shape</i>
D	Blocky
C	Cusped
C	Pumiceous
<i>C/A/D/R/T</i>	<i>Vesicle Content/Shape</i>
A	Non-vesicular
R	Round
E	Elliptical
A	Elongated <i>W/S</i>
<i>C/A/D/R/T</i>	<i>Crystalline Lithic</i>
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
	Pyroxene
TR	Amphibole
TR	Biotite
	Zircon
TR	Quartz
R	Feldspar
TR	Other* <i>Fe-Oxide</i>
<i>C/A/D/R/T</i>	<i>Admixed components</i>
	Lithic Fragment
C	Clay minerals
R	Fossil debris
C	Authigenic mineral* <i>Calcite</i>

Remarks:

Sediment Smear Slide / Tephra Description

Date: 08.18.16

Expedition: 362

Observer: Ferid

Site: U1480

Hole: E Core: 4H

Sect.: 1A

Interval: 3-4

C/A/D/R/T	Vitric Components
	Color
D	Glass (pyroclasts)
	Glass (pyroclasts), brown or colored
C/A/D/R/T	Shape
D	Blocky
E	Cusped
C	Pumiceous
C/A/D/R/T	Vesicle Content/Shape
A	Non-vesicular
R	Round
R	Elliptical
e	Elongated <i>thin</i>
C/A/D/R/T	Crystalline Lithic
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
	Pyroxene
T	Amphibole
R	Biotite
	Zircon
R	Quartz
R	Feldspar
	Other*
C/A/D/R/T	Admixed components
	Lithic Fragment
C	Clay minerals
R	Fossil debris <i>None</i>
	Authigenic mineral*

Comments:

Sk

carbonate fragments

Remarks:

Sediment Smear Slide / Tephra Description

Date: 8/14/16

Expedition:

Observer: FAD

Site: U1480

Hole: SE Core: GA

Sect.: 1A

Interval: 12

Comments:

SK ✓

C/A/D/R/T	Vitric Components
	Color
D	Glass (pyroclasts)
	Glass (pyroclasts), brown or colored
C/A/D/R/T	Shape
D	Blocky
C	Cusped
C	Pumiceous
C/A/D/R/T	Vesicle Content/Shape
O	Non-vesicular
	Round
R	Elliptical
C	Elongated <i>Handwritten</i>
C/A/D/R/T	Crystalline Lithic
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
	Pyroxene
Tr	Amphibole
R	Biotite
	Zircon
Tr	Quartz
R	Feldspar
	Other*
C/A/D/R/T	Admixed components
	Lithic Fragment
C	Clay minerals
R	Fossil debris
	Authigenic mineral*

Remarks:

There is occurrence of microfossils, (R) mainly diatom. Secondary, occurs microfossil.

Sediment Smear Slide / Tephra Description

Date: _____

Expedition: 362

Observer: _____

Site: 148

Hole: 6

Core: 57R

Sect.: 4

Interval: 81-82

C/A/D/R/T	Vitric Components
	Color
D	Glass (pyroclasts)
	Glass (pyroclasts), brown or colored
C/A/D/R/T	Shape
D	Blocky
R	Cusped
	Pumiceous
C/A/D/R/T	Vesicle Content/Shape
D	Non-vesicular
	Round
	Elliptical
	Elongate
	Tubular
C/A/D/R/T	Crystalline Lithic
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
	Pyroxene
R	Amphibole
R	Biotite
	Zircon
	Quartz
R	Feldspar
	Other*
C/A/D/R/T	Admixed components
	Lithic Fragment
A	Clay minerals
	Fossil debris
A	Authigenic mineral* <i>2ed, ill</i>

Comments:

Remarks: partially altered, difficult to determine.

Sediment Smear Slide / Tephra Description

Date: _____

Expedition: 362

Observer: _____

Site: 07480

Hole: 6

Core: 57

Sect: 5R

Interval: 134

C/A/D/R/T	Vitric Components
	Color
D	Glass (pyroclasts)
	Glass (pyroclasts), brown or colored
C/A/D/R/T	Shape
D	Blocky
?	Cusped
	Pumiceous
C/A/D/R/T	Vesicle Content/Shape
D	Non-vesicular
	Round
	Elliptical
	Elongate
	Tubular
C/A/D/R/T	Crystalline Lithic
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
	Pyroxene
R	Amphibole
C	Biotite
	Zircon
R	Quartz
C	Feldspar
TR	Other*
C/A/D/R/T	Admixed components
	Lithic Fragment
A	Clay minerals
	Fossil debris
R	Authigenic mineral*

Apatic

Ca-sylp

Comments:

Remarks: strongly altered; texture difficult to describe

Sediment Smear Slide / Tephra Description

Date: _____

Expedition: 362

Observer: _____

Site: N1480

Hole: 6

Core: 58

Sect: 1

Interval: 105

C/A/D/R/T	Vitric Components
	Color
D	Glass (pyroclasts)
	Glass (pyroclasts), brown or colored
C/A/D/R/T	Shape
A	Blocky
A	Cusped
R	Pumiceous
C/A/D/R/T	Vesicle Content/Shape
D	Non-vesicular
	Round
	Elliptical
TR	Elongate
2	Tubular
C/A/D/R/T	Crystalline Lithic
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
	Pyroxene
	Amphibole
R	Biotite
	Zircon
	Quartz
C	Feldspar
	Other*
C/A/D/R/T	Admixed components
	Lithic Fragment
C	Clay minerals
	Fossil debris
C	Authigenic mineral*

2006/1/14

Comments:

Remarks: slightly altered

Sediment Smear Slide / Tephra Description

Date: _____

Expedition: 362

Observer: _____

Site: 07480

Hole: G

Core: 59

Sect.: 1

Interval: 104

C/A/D/R/T	Vitric Components
	Color
P	Glass (pyroclasts)
	Glass (pyroclasts), brown or colored
C/A/D/R/T	Shape
D	Blocky
R?	Cusped
	Pumiceous
C/A/D/R/T	Vesicle Content/Shape
D?	Non-vesicular
	Round
	Elliptical
	Elongate
	Tubular
C/A/D/R/T	Crystalline Lithic
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
	Pyroxene
TR	Amphibole
E	Biotite
TR	Zircon
	Quartz
C	Feldspar
	Other*
C/A/D/R/T	Admixed components
	Lithic Fragment
C	Clay minerals
	Fossil debris
A	Authigenic mineral*

Zeolite

Comments:

Remarks:

strongly altered glass, texture difficult to determine.

Sediment Smear Slide / Tephra Description

Date: _____

Expedition: 362

Observer: _____

Site: 09480

Hole: G

Core: 60

Sect.: 4

Interval: 47

C/A/D/R/T	Vitric Components
	Color
D	Glass (pyroclasts)
	Glass (pyroclasts), brown or colored
C/A/D/R/T	Shape
D	Blocky
A	Cusped
TR	Pumiceous
C/A/D/R/T	Vesicle Content/Shape
D	Non-vesicular
R	Round
	Elliptical
R	Elongate
TR	Tubular
C/A/D/R/T	Crystalline Lithic
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
	Pyroxene
	Amphibole
R	Biotite
	Zircon
C	Quartz
C	Feldspar
R	Other* ?
C/A/D/R/T	Admixed components
	Lithic Fragment
A	Clay minerals
C	Fossil debris
	Authigenic mineral*

Comments:

→ high rd of low refraction index

Slices

Remarks: _____

Sediment Smear Slide / Tephra Description

Date: _____

Expedition: 362

Observer: _____

Site: U1480

Hole: 6

Core: 60

Sect.: 4

Interval: 57

C/A/D/R/T	Vitric Components
	Color
<u>D</u>	Glass (pyroclasts)
	Glass (pyroclasts), brown or colored
C/A/D/R/T	Shape
<u>D</u>	Blocky
<u>R</u>	Cusped
<u>TV</u>	Pumiceous
C/A/D/R/T	Vesicle Content/Shape
<u>D</u>	Non-vesicular
<u>R</u>	Round
	Elliptical
	Elongate
<u>TV</u>	Tubular
C/A/D/R/T	Crystalline Lithic
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
	Pyroxene
	Amphibole
<u>R</u>	Biotite
	Zircon
<u>R</u>	Quartz
<u>C</u>	Feldspar
	Other*
C/A/D/R/T	Admixed components
	Lithic Fragment
<u>A</u>	Clay minerals
	Fossil debris
	Authigenic mineral*

Comments:

Remarks: Mixture of altered and fresh glass

Sediment Smear Slide / Tephra Description

Date: _____

Expedition: 362

Observer: _____

Site: U7480

Hole: G

Core: 60

Sect.: 5

Interval: 44

C/A/D/R/T	Vitric Components
	Color
D	Glass (pyroclasts)
	Glass (pyroclasts), brown or colored
C/A/D/R/T	Shape
A	Blocky
D	Cusped
	Pumiceous
C/A/D/R/T	Vesicle Content/Shape
D	Non-vesicular
	Round
	Elliptical
Tr	Elongate
	Tubular
C/A/D/R/T	Crystalline Lithic
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
	Pyroxene
	Amphibole
	Biotite
	Zircon
Tr	Quartz
R	Feldspar
	Other*
C/A/D/R/T	Admixed components
	Lithic Fragment
	Clay minerals
	Fossil debris
A	Authigenic mineral*

Calcite

Comments:

Remarks: _____

Sediment Smear Slide / Tephra Description

Expedition: 362

Site: 1480

Hole: G

Core: 67

Sect.: 4

Date:

Observer: *Reed*

Interval: 30

Comments:

C/A/D/R/T	Vitric Components
	Color
D	Glass (pyroclasts)
	Glass (pyroclasts), brown or colored
C/A/D/R/T	Shape
A	Blocky
A	Cusped
R	Pumiceous
C/A/D/R/T	Vesicle Content/Shape
D	Non-vesicular
	Round
R	Elliptical
C	Elongated <i>1/4 size</i>
C/A/D/R/T	Crystalline Lithic
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
R	Pyroxene
	Amphibole
	Biotite
	Zircon
R	Quartz
C	Feldspar
	Other*
C/A/D/R/T	Admixed components
R	Lithic Fragment
A	Clay minerals
C	Fossil debris
A	Authigenic mineral*

Remarks: *Strongly mixed with sediment*

Sediment Smear Slide / Tephra Description

Expedition: 302
 Site: 1480

Hole: G Core: 07

Sect.: 1

Date:
 Observer: Katt
 Interval: 90

C/A/D/R/T	Vitric Components
	<i>Color</i>
D	Glass (pyroclasts)
	Glass (pyroclasts), brown or colored
C/A/D/R/T	Shape
D	Blocky
R	Cusped
Tr	Pumiceous
C/A/D/R/T	Vesicle Content/Shape
D	Non-vesicular
Tr	Round
R	Elliptical
Tr	Elongated / tubular
C/A/D/R/T	Crystalline Lithic
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
	Pyroxene
	Amphibole
R	Biotite
	Zircon
	Quartz
C	Feldspar
	Other*
C/A/D/R/T	Admixed components
R	Lithic Fragment
R	Clay minerals
R	Fossil debris
	Authigenic mineral*

Comments:

Remarks: slightly altered

Sediment Smear Slide / Tephra Description

Date:

Expedition: 362

Observer: Hart

Site: 1480

Hole: 6

Core: 67

Sect.: 3

Interval: 122

Comments:

C/A/D/R/T	Vitric Components
	Color
D	Glass (pyroclasts)
	Glass (pyroclasts), brown or colored
C/A/D/R/T	Shape
A	Blocky
A	Cusped
Tr	Pumiceous
C/A/D/R/T	Vesicle Content/Shape
D	Non-vesicular
Tr	Round
Tr	Elliptical
Tr	Elongated
C/A/D/R/T	Crystalline Lithic
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
Tr	Pyroxene
	Amphibole
	Biotite
	Zircon
	Quartz
R	Feldspar
	Other*
C/A/D/R/T	Admixed components
R	Lithic Fragment
A	Clay minerals
C	Fossil debris
C	Authigenic mineral*

Remarks:

Strongly mixed with sediment

Sediment Smear Slide / Tephra Description

Expedition: 362

Site: 1680

Hole: 6

Core: 62

Sect.: 4

Date:

Observer: Katt

Interval: 129

C/A/D/R/T	Vitric Components
	Color
	Glass (pyroclasts)
0	Glass (pyroclasts), brown or colored
C/A/D/R/T	Shape
A	Blocky
A	Cusped
C	Pumiceous
C/A/D/R/T	Vesicle Content/Shape
A	Non-vesicular
A	Round
C	Elliptical
	Elongated
C/A/D/R/T	Crystalline Lithic
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
	Pyroxene
	Amphibole
	Biotite
	Zircon
	Quartz
Tr	Feldspar
	Other*
C/A/D/R/T	Admixed components
	Lithic Fragment
	Clay minerals
	Fossil debris
A	Authigenic mineral*

Comments:

Zeoliths

Remarks: Strongly alkali. Brown glass - see thin section for composition

Sediment Smear Slide / Tephra Description

Expedition: 362

Site: 1480

Hole: 6

Core: 62

Sect.: 6

Date:

Observer: *Rest*

Interval: 13

C/A/D/R/T	Vitric Components
	Color
	Glass (pyroclasts)
D	Glass (pyroclasts), brown or colored
C/A/D/R/T	Shape
A	Blocky
A	Cusped
A	Pumiceous
C/A/D/R/T	Vesicle Content/Shape
A	Non-vesicular
A	Round
C	Elliptical
R	Elongated / MS
C/A/D/R/T	Crystalline Lithic
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
	Pyroxene
	Amphibole
	Biotite
	Zircon
	Quartz
R	Feldspar
	Other*
C/A/D/R/T	Admixed components
	Lithic Fragment
	Clay minerals
	Fossil debris
C	Authigenic mineral* <i>zeolite</i>

Comments:

} difficult
↓
but
SP
TS

Remarks:

strongly altered brown glass → compare with thin section when glass shard structures still intact!

Sediment Smear Slide / Tephra Description

Date: 9/14/16

Expedition: 362

Observer:

Site: U1480

Hole: A Core: 1

Sect.: 1

Interval: 6-7

C/A/D/R/T	Vitric Components
	<i>Color</i>
D	Glass (pyroclasts)
	Glass (pyroclasts), brown or colored
	<i>Shape</i>
D	Blocky
A	Cusped
C	Pumiceous
	<i>Vesicle Content/Shape</i>
D	Non-vesicular
	Round
R	Elliptical
R	Elongated
	<i>Crystalline Lithic</i>
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
R	Pyroxene
R	Amphibole
E	Biotite
	Zircon
C	Quartz
C	Feldspar
	Other*
	<i>Admixed components</i>
TR	Lithic Fragment
R	Clay minerals
	Fossil debris
	Authigenic mineral*

Comments:

Remarks:

Sediment Smear Slide / Tephra Description

Expedition: 362

Site: 1482

Hole: H

Core: 1

Sect.: 3

Date:

Observer: KATH

Interval: 57

C/A/D/R/T	Vitric Components
	<i>Color</i>
D	Glass (pyroclasts)
	Glass (pyroclasts), brown or colored
C/A/D/R/T	<i>Shape</i>
A	Blocky
A	Cusped
A	Pumiceous
C/A/D/R/T	<i>Vesicle Content/Shape</i>
A	Non-vesicular
R	Round
C	Elliptical
A	Elongated
C/A/D/R/T	<i>Crystalline Lithic</i>
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
TR	Pyroxene
R	Amphibole
C	Biotite
C	Zircon
R	Quartz
C	Feldspar
TR	Other* <i>Albite</i>
C/A/D/R/T	<i>Admixed components</i>
	Lithic Fragment
	Clay minerals
	Fossil debris
	Authigenic mineral*

Comments:

Remarks:

5-25 - suffix
25-50 - pre-fix

Sediment Smear Slide / Tephra Description

Date: 9/7/16

Expedition: 362

Observer: Fouid

Site: 014804

Hole: H

Core: 2H

Sect.: 3A

Interval: 75

C/A/D/R/T	Vitric Components
	Color
D	Glass (pyroclasts)
	Glass (pyroclasts), brown or colored
C/A/D/R/T	Shape
D	Blocky
C	Cusped
A	Pumiceous
C/A/D/R/T	Vesicle Content/Shape
A	Non-vesicular
C	Round
R	Elliptical
R	Elongate
A	Tubular
C/A/D/R/T	Crystalline Lithic
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
	Pyroxene
R	Amphibole
C	Biotite
	Zircon
R	Quartz
C	Feldspar
	Other*
C/A/D/R/T	Admixed components
	Lithic Fragment
R	Clay minerals
	Fossil debris
	Authigenic mineral*

Comments:

Remarks:

Sediment Smear Slide / Tephra Description

Date: 9/7/16

Expedition: 362

Observer: found

Site: 01480

Hole: 14

Core: 24

Sect.: 3A

Interval: 138

✓/D/R/T	Vitric Components
	Color
A	Glass (pyroclasts)
	Glass (pyroclasts), brown or colored
C/A/D/R/T	Shape
A	Blocky
	Cusped
R	Pumiceous
C/A/D/R/T	Vesicle Content/Shape
	Non-vesicular
	Round
	Elliptical
R	Elongate
	Tubular
C/A/D/R/T	Crystalline Lithic
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
	Pyroxene
	Amphibole
A	Biotite
	Zircon
A	Quartz
C	Feldspar
	Other*
C/A/D/R/T	Admixed components
	Lithic Fragment
	Clay minerals
	Fossil debris
	Authigenic mineral*

Comments:

Remarks: Basal, Crystalline rich layer

Sediment Smear Slide / Tephra Description

Date: 8/7/16

Expedition: 362

Observer: Feind

Site: 01480

Hole: H

Core: 2H

Sect.: SA

Interval: 89

J/D/R/T	Vitric Components
	Color
A	Glass (pyroclasts)
	Glass (pyroclasts), brown or colored
C/A/D/R/T	Shape
A	Blocky
	Cusped
R	Pumiceous
C/A/D/R/T	Vesicle Content/Shape
A	Non-vesicular
	Round
	Elliptical
R	Elongate
	Tubular
C/A/D/R/T	Crystalline Lithic
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
R	Pyroxene
	Amphibole
C	Biotite
	Zircon
A	Quartz
A	Feldspar
	Other*
C/A/D/R/T	Admixed components
	Lithic Fragment
	Clay minerals
	Fossil debris
	Authigenic mineral*

Comments:
 Pod of
 Ash in
 the silty
 sand layer

Remarks:

Sediment Smear Slide / Tephra Description

Date: 3/7/16
 Observer: Fried

Expedition: 302

Site: 01480

Hole: H

Core: 3H

Sept.: 1A

Interval: 88

C/A/D/R/T	Vitric Components
	Color
	Glass (pyroclasts)
D	Glass (pyroclasts), brown or colored
C/A/D/R/T	Shape
D	Blocky
	Cusped
	Pumiceous
C/A/D/R/T	Vesicle Content/Shape
D	Non-vesicular
C	Round
	Elliptical
	Elongate
()	Tubular
C/A/D/R/T	Crystalline Lithic
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
R	Pyroxene
	Amphibole
R	Biotite
	Zircon
A	Quartz
C	Feldspar
A	Other*
C/A/D/R/T	Admixed components
	Lithic Fragment
	Clay minerals
	Fossil debris
	Authigenic mineral*

spinel carbonate (R)

Comments:

Remarks:

Sediment Smear Slide / Tephra Description

Expedition: 362

Site: 1480

Hole: H

Core: 3

Sect.: 4

Date: Keet

Observer:

Interval: 18

Comments:

C/A/D/R/T	Vitric Components
	<i>Color</i>
D	Glass (pyroclasts)
	Glass (pyroclasts), brown or colored
C/A/D/R/T	Shape
A	Blocky
A	Cusped
A	Pumiceous
C/A/D/R/T	Vesicle Content/Shape
A	Non-vesicular
C	Round
C	Elliptical
A	Elongated
C/A/D/R/T	Crystalline Lithic
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
R	Pyroxene
R	Amphibole
C	Biotite
	Zircon
R	Quartz
C	Feldspar
	Other*
C/A/D/R/T	Admixed components
	Lithic Fragment
	Clay minerals
	Fossil debris
	Authigenic mineral*

Remarks:

Sediment Smear Slide / Tephra Description

Date: _____

Expedition: _____

Observer: _____

Site: _____

Hole: 14

Core: 3

Sect.: 4

Interval: 63

C/A/D/R/T	Vitric Components
	Color
<u>D</u>	Glass (pyroclasts)
	Glass (pyroclasts), brown or colored
C/A/D/R/T	Shape
<u>D</u>	Blocky
	Cusped
<u>A</u>	Pumiceous
C/A/D/R/T	Vesicle Content/Shape
	Non-vesicular
	Round
	Elliptical
<u>C</u>	Elongate
<u>A</u>	Tubular
C/A/D/R/T	Crystalline Lithic
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
	Pyroxene
<u>C</u>	Amphibole
	Biotite
	Zircon
<u>A</u>	Quartz
<u>C</u>	Feldspar
<u>C</u>	Other*
C/A/D/R/T	Admixed components
	Lithic Fragment
	Clay minerals
	Fossil debris
	Authigenic mineral*

Comments:

opaque grains.

Remarks:

to muddy in the silt layer!!

Sediment Smear Slide / Tephra Description

Date: 3/7/16

Expedition: 362

Observer: Eud

Site: 01480

Hole: H

Core: 4H

Sect.: 1A

Interval: 5253

C/A/D/R/T	Vitric Components
	Color
0	Glass (pyroclasts)
	Glass (pyroclasts), brown or colored
C/A/D/R/T	Shape
A	Blocky
A	Cusped
C	Pumiceous
C/A/D/R/T	Vesicle Content/Shape
D	Non-vesicular
R	Round
R	Elliptical
	Elongate
A	Tubular
C/A/D/R/T	Crystalline Lithic
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
	Pyroxene
R	Amphibole
R	Biotite
	Zircon
R	Quartz
C	Feldspar
	Other*
C/A/D/R/T	Admixed components
	Lithic Fragment
C	Clay minerals
	Fossil debris
	Authigenic mineral*

Comments:

clear microbasalts or andesite.
 Most of clear glass grains is altered.

Remarks:

Sediment Smear Slide / Tephra Description

Date: 8/7/16

Expedition: 362

Observer: Farris

Site: J480

Hole: H

Core: 4H

Sect.: 1A

Interval: 124

C/D/R/T	Vitric Components
	Color
D	Glass (pyroclasts)
	Glass (pyroclasts), brown or colored
C/A/D/R/T	Shape
A	Blocky
A	Cusped
C	Pumiceous
C/A/D/R/T	Vesicle Content/Shape
A	Non-vesicular
	Round
R	Elliptical
C	Elongate
A	Tubular
C/A/D/R/T	Crystalline Lithic
	Volcanic lithic abundance (name)

C/A/D/R/T	Crystal components
	Pyroxene
R	Amphibole
C	Biotite
	Zircon
R	Quartz
A	Feldspar
R	Other*
C/A/D/R/T	Admixed components
	Lithic Fragment
	Clay minerals
	Fossil debris
	Authigenic mineral*

quartzite

Comments:

Remarks: