

5

Sediment Smear Slide / Tephra Description

Date: 8.4.

Expedition: 375

Observer: Ren

Site: 1520

Hole: C Core: 2R

Sect.: 1A

Interval: 80

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

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

Calcite

Comments: SEM

Remarks:



Sediment Smear Slide / Tephra Description

Date: 8.4.
 Observer: NA
 Interval: 104

Expedition: 375

Site: 1520 Hole: L Core: 2 R Sect.: 1

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

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

Comments:

Remarks: _____

Sediment Smear Slide / Tephra Description

Date: 8.4.

Expedition: 375 Observer: KG

Site: 1520 Hole: C Core: 2R Sect.: 2 Interval: 33

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

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

Comments:

Remarks: _____

Sediment Smear Slide / Tephra Description

Date: 8.4.18

Expedition: 1375

Observer: RM

Site: 1520

Hole: C Core: 3R

Sect.: 1

Interval: 32

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

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

Comments:

Remarks: _____

Sediment Smear Slide / Tephra Description

Date: 8.4.
 Observer: *Mu*
 Interval: 719

Expedition: 375
 Site: 1520 Hole: Core: 3 R Sect.: 2

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

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

Comments:

Remarks:

Sediment Smear Slide / Tephra Description

Date: P. 4.18

Expedition: 375

Observer: Per

Site: 1520

Hole: C Core: 4R

Sect.: 1

Interval: 1

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

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

Comments:

Remarks: _____

Sediment Smear Slide / Tephra Description

Date: P.C.
 Observer: 161
 Interval: 55

Expedition: 375

Site: 1520 Hole: C Core: 4R Sect.: 1

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

| T/R/P/C/A/D/M | Crystal components |
|---------------|----------------------|
| <u>T</u> | Pyroxene |
| | Amphibole |
| | Biotite |
| | Zircon |
| | Quartz |
| <u>T</u> | Feldspar |
| <u>R</u> | Other* <u>010800</u> |
| T/R/P/C/A/D/M | Admixed components |
| <u>R</u> | Lithic Fragment |
| | Clay minerals |
| <u>R</u> | Fossil debris |
| <u>A</u> | Authigenic mineral* |

Comments:

Remarks: _____

Sediment Smear Slide / Tephra Description

Date: 8.4
 Observer: He
 Interval: 66

Expedition: 375
 Site: 1500 Hole: C Core: 4R Sect.: 2

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

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

Comments:

Remarks: _____

Sediment Smear Slide / Tephra Description

Date: 8.4
 Observer: Ru
 Interval: 53

Expedition: 375
 Site: 1520 Hole: C Core: 4 Sect.: 5

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

| T/R/P/C/A/D/M | Crystal components |
|---------------|-----------------------------|
| <u>R</u> | Pyroxene |
| <u>R</u> | Amphibole |
| <u>P</u> | Biotite |
| | Zircon |
| <u>T</u> | Quartz |
| <u>P</u> | Feldspar |
| <u>T+P</u> | Other* <u>An + Or + Qtz</u> |
| T/R/P/C/A/D/M | Admixed components |
| <u>T</u> | Lithic Fragment |
| | Clay minerals |
| <u>C</u> | Fossil debris |
| <u>C</u> | Authigenic mineral* |

Comments:

Remarks: _____

V SEM

Sediment Smear Slide / Tephra Description

Date: 8.9.11

Expedition: 375

Observer: Reiff

Site: 7520

Hole: C Core: 4

Sect.: 5

Interval: 109

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

-c Alkald glass pyroclasts

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

An + Or + Qtz

Feldsp + Calcite

Comments:

Remarks:

Sediment Smear Slide / Tephra Description

Date: 8.9.10
 Observer: Herth
 Interval: 19

Expedition: 375

Site: 1520 Hole: C Core: 4 Sect.: CC

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

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

01/09/10

Calcite + Trass in Pyrite Feldsp

Comments:

Remarks:

Sediment Smear Slide / Tephra Description

Date: 8.4.

Expedition: 375

Observer: Ng

Site: 1500

Hole: C Core: 5R

Sect.: 2

Interval: 121

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

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

opaque

Comments:

T *a head glass*

Remarks: _____

Sediment Smear Slide / Tephra Description

Date: 8.9.18

Expedition: 378

Observer: llm

Site: 1520

Hole: C Core: 7R

Sect.: 7

Interval: 40

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

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

Diagenesis

Calcite, Fe Mn ox

Comments:

Remarks:

Sediment Smear Slide / Tephra Description

Date: 8.4.
 Observer: 16
 Interval: 23

Expedition: 375

Site: 1520

Hole: C Core: PR

Sect.: 5-

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

P (altered glass)

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

calcite, talc

Opal

Comments:

Remarks:

Sediment Smear Slide / Tephra Description

Date: 8.4
 Observer: ML
 Interval: 16

Expedition: 325

Site: 1520 Hole: C Core: 9R Sect.: 2

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

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

calcite, Fe-ox

Comments:

Remarks: _____

Sediment Smear Slide / Tephra Description

Date: 8.9.

Expedition: 375

Observer: He

Site: 1520

Hole: C Core: 9R

Sect.: 2

Interval: 106

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

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

Calcite / Feldspar

OH/900

Comments:

Remarks:

Sediment Smear Slide / Tephra Description

Date: 8.4.
 Observer: [Signature]
 Interval: 0.2

Expedition: 375

Site: 1520 Hole: Core: GR Sect.: 4

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

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

Comments:

M altered/abundant glass

Remarks:

No textures observed

Sediment Smear Slide / Tephra Description

Date: 8/4/13

Expedition: 375

Observer: He

Site: 1520

Hole: C Core: of R

Sept.: 4

Interval: 70

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

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

Comments:
 Strongly altered, de-vitrified glass
 * Quartz
 * Hornbl + Muscovite

M altered/de-vitrified glass + Anorthite

Remarks:

still pumiceous features observable

Sediment Smear Slide / Tephra Description

Date: 8.4.
 Observer: MM
 Interval: 63

Expedition: 375

Site: 1500 Hole: C Core: M Sect.: 5

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

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

Comments:
 strongly devitrified
 Diiron Anorthite, Anorthite
 forams

M alkali, not agglutinated, devitrified glass

Remarks: Still pumiceous features observable

Sediment Smear Slide / Tephra Description

Date: 8.4.

Expedition: 375

Observer: RU

Site: U7500

Hole: C

Core: 13 R

Sect.: 3

Interval: 76

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

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

Comments:

Strongly altered

M devitrified glass fragments?

Remarks:

Some pumiceous textures left

Sediment Smear Slide / Tephra Description

Date: 8.4.

Expedition: 375

Observer: Re

Site: 1520

Hole: C

Core: 23R

Sect.: 5

Interval: 79

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

D *altd, devitified.*

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

Zeolite

Comments:
Devitified and altered glass & zeolite

Remarks: _____

Sediment Smear Slide / Tephra Description

Date: 8.4

Expedition: 375

Observer: [Signature]

Site: 1520

Hole: C

Core: 23R

Sect.: 5

Interval: 89

| C/A/D/R/T | Vitric Components |
|-----------|--------------------------------------|
| | Color |
| 3 | Glass (pyroclasts) |
| P | Glass (pyroclasts), brown or colored |
| C/A/D/R/T | Shape |
| | Blocky |
| | Cusped |
| | Pumiceous |
| C/A/D/R/T | Vesicle Content/Shape |
| | Non-vesicular |
| | Round |
| | Elliptical |
| | Elongate |
| | Tubular |
| C/A/D/R/T | Crystalline Lithic |
| P | Volcanic lithic abundance (name) |

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

C → Zedite
C → Analcite

Comments:
Some paleo-lithic tuffs below GR-2
deutified glass with magmatic minerals but have secondary Analcite

A transparent deutified glass!

Remarks:

Sediment Smear Slide / Tephra Description

Date: 8.4.11

Expedition: 375

Observer: Nu

Site: 7520

Hole: C

Core: 23R

Sect.: 6

Interval: 12

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

0 artificial glass

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

Amphite + opaque.

Comments:

Remarks: _____

Some pumiceous textures left.