Curated core depth (mbsf)

XCT image (stretched)

Core section

VCD grain size estimate

Linescan (stretched)

Bioturbation presence

MS (SI x 10^-5)

Density (g/cc)

NGR (cps)

Sulfate (mM)

Alkalinity (mM)

TOC (%)

Pmag intensity (Am)

Pmag declination (degree)

Pmag inclination (degree)

Methane (ppmv)

NGR (cps)

Sulfate (mM)

Alkalinity (mM)

TOC (%)

Pmag intensity (Am)

Pmag declination (degree)

Pmag inclination (degree)

Site M0090

Composite plots
### Curated Core Depth (mbsf)

<table>
<thead>
<tr>
<th>Depth (mbsf)</th>
<th>Density (g/cc)</th>
<th>NGR (cps)</th>
<th>Sulfate (mM)</th>
<th>Alkalinity (mM)</th>
<th>TOC (%)</th>
<th>Methane (ppmv)</th>
<th>Pmag Intensity (A/m)</th>
<th>Pmag Declination (degree)</th>
<th>Pmag Inclination (degree)</th>
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### XCT Image (stretched)

- Clay
- Clayey silt / silty clay
- Clay-silt-sand
- Silt
- Silty sand / sandy silt
- Very fine sand
- Fine sand
- Medium sand

### Linescan (stretched)

- Clays
- Clayey silt / silty clay
- Clay-silt-sand
- Sandy clay / silty sand
- Silt
- Silt / sandy silt
- Very fine sand
- Fine sand
- Medium sand

### Core Section

- Clay
- Clayey silt / silty clay
- Clay-silt-sand
- Sandy clay / silty sand
- Silt
- Silt / sandy silt
- Very fine sand
- Fine sand
- Medium sand

### Bioturbation Presence

- Present
- Absent
Curated core depth (mbsf)

XCT image (stretched)

Core section

Bioturbation presence

VCD grain size estimate

Methane (ppmv)

NGR (cps)

Sulfate (mM)

TOC (%)

Pmag declination (degree)

Alkalinity (mM)

Pmag intensity (Am)

Pmag inclination (degree)

TOC

0.001

0.0001

1E-07

Density (g/cc)

0.001

0.0001

1E-05

1E-06

0.001

0.0001

1E-05

1E-06

NGR

0.001

0.0001

1E-07

1E-08

Density

0.001

0.0001

1E-05

1E-06

NGR

0.001

0.0001

1E-07

1E-08

Methane

0.001

0.0001

1E-05

1E-06

Sulfate

0.001

0.0001

1E-05

1E-06

Alkalinity

0.001

0.0001

1E-05

1E-06

TOC

0.001

0.0001

1E-05

1E-06

Pmag declination

0.001

0.0001

1E-05

1E-06

Pmag inclination

0.001

0.0001

1E-05

1E-06

Methane

0.001

0.0001

1E-05

1E-06

Sulfate

0.001

0.0001

1E-05

1E-06

Alkalinity

0.001

0.0001

1E-05

1E-06

TOC

0.001

0.0001

1E-05

1E-06

Pmag declination

0.001

0.0001

1E-05

1E-06

Pmag inclination

0.001

0.0001

1E-05

1E-06

Site M0090

Composite plots
Site M0090

M0090A

Visual core descriptions

Additional Observations

- Close up photo (0-39 cm)
  - Oxidized part
  - Light color layer
  - Thin silt layers are interbedded (1 mm)

- Close up photo (46-80 cm)
  - Light color layer

- Dots of brow color (51-52 cm: 2.5Y 5/6)

- CC in bag

Clay, Clayey silts, Silt, Fine sand, Medium sand, Very fine sand, Fine sand, Medium sand

VCD grain size estimate

Sedimentary structures

Void (V) or whole round (WR) interval

Close up photos (midpoint)

Smear slides
<table>
<thead>
<tr>
<th>Curated core depth (mbf)</th>
<th>Core section</th>
<th>XCT image (stretched)</th>
<th>Linescan (stretched)</th>
<th>Void (V) or whole round (WR) interval</th>
<th>Sedimentary structures</th>
<th>VCD grain size estimate</th>
<th>Smear slides</th>
<th>Tephra VCD observations</th>
<th>Other sedimentary structures</th>
<th>Accessories</th>
<th>Top contact</th>
<th>Base contact</th>
<th>Coring disturbance</th>
<th>Bioturbation intensity</th>
<th>Iron monosulfide abundance</th>
<th>Color</th>
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<td>0</td>
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</table>

*VFs with occasional in olive black (10Y 3/2) + abundance of micas + some coarse silt (40 cm) + very interesting sequence of remobilized blocks, with micro-faults, wavy laminae, cross laminations, SSDS, load casts, etc.*

**Description**
- Color in notes 10Y3/2 Olive black. Event layer 10-39 cm
- Color streaks layers of sand mixed with f sand, clay, silty clay
- Color in notes 10Y3/2 Olive black. Deformed, load structure at the base
- VFs with occasional layers of fs
- VFs with occasional layers of fs
- Silty clay with thin vfs layers <1 mm
- Black spots 3-5 mm
- Black spots 3-5 mm
- Silty clay with clay spots
- Gradational bioturbated
- Few 3mm black spots
- Oxidized oblique patch
- Graded color, 3mm black spots, oxidized patch
- Gradational bioturbated, 3mm black spots
- Graded grain size
- 3-5mm black spots
- 3-5mm black spots
### Visual core descriptions

**Site M0090**

**M0090B**

#### Curated core depth (mbsf)

<table>
<thead>
<tr>
<th>Core section</th>
<th>Curated core depth (mbsf)</th>
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</thead>
<tbody>
<tr>
<td>X-ray (stretched)</td>
<td>3</td>
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<tr>
<td>Linescan (stretched)</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Sedimentary structures

- **VCD grain size estimate**
- **Sedimentary structures**
- **Close up photos (midpoint)**
- **Smear slides**
- **Top contact**
- **Base contact**
- **Coring disturbance**
- **Bioturbation intensity**
- **Iron monosulfide abundance**

#### Color
- 7.5Y 4/2
- 7.5Y 5/2
- 7.5Y 2/2
- 7.5Y 4/2
- 7.5Y 3/1
- 7.5Y 4/1

#### Additional Observations

- Black spots (2-8 mm) + black streaks (2-8 mm)
- Silt patch on right edge + black spots (2-8 mm) + black streaks (2-8 mm)
- Black spots 1-3 mm
- Black spots 5-10 mm
- Gradational bioturbated
- Gradational color

**Tephra VCD observations**

- **Accessories**
- **Other sedimentary structures**

**Visual core descriptions**

**Linescan (stretched)**

**Close up photos (midpoint)**

**Smear slides**

**Clay**

**Clayey silt / silty clay**

**Clay-silt-sand**

**Silt**

**Silty sand / sandy silt**

**Very fine sand**

**Fine sand**

**Medium sand**

**Iron monosulfide**

**Black spots (2-8 mm)**

**Black spots 1-3 mm**

**Black spots 5-10 mm**

**Black smudges**

**Black smudges with nodules (2 mm)**

**Black smudges with nodules (2 mm)**

**Black smudges with nodules (2 mm)**

**Black smudges with nodules (2 mm)**

**Clay**

**Clayey silt / silty clay**

**Clay-silt-sand**

**Silt**

**Silty sand / sandy silt**

**Very fine sand**

**Fine sand**

**Medium sand**

**Iron monosulfide**

**Black spots (2-8 mm)**

**Black spots 1-3 mm**

**Black spots 5-10 mm**

**Black smudges**

**Black smudges with nodules (2 mm)**

**Black smudges with nodules (2 mm)**

**Black smudges with nodules (2 mm)**

**Black smudges with nodules (2 mm)**
<table>
<thead>
<tr>
<th>Depth (mbsf)</th>
<th>Core section</th>
<th>Void (V) or whole round (WR) interval</th>
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**Additional Observations**

- Gradational bioturbated, black spots 8-10mm
- Gradational bioturbated, black spots 5-8mm
- Gradational bioturbated, black patches 1-3cm
- Gradational bioturbated, black spots 3-5mm
- Black spots 1-2mm
- Black spots 5-8mm
- Bioturb black spots (5-8 mm)
- Change in color
- Four thin silt layers (< 1 mm)
- Black spots (5-8 mm)
- Black spots (5-8 mm)
- Black spot (3 mm)
- Black patches
<table>
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<tr>
<th>Curated core depth (mbsf)</th>
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<th>XCT image (stretched)</th>
<th>Linescan (stretched)</th>
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</table>

**Additional Observations**
- Black spots (5-8 mm)
- Black spots (3 mm)
- Black smudges nodules (2 mm)
- Black spots (3 mm)
- Black spots (5 mm) with nodules (3 mm)
- Black spots (3 mm)
- Black smudges
- Black spots (3-5 mm)
- Black spots (5-10 mm) with nodules (3-5 mm)
- Black patches
- Black spots (3-5 mm)
- Black spots (5-10 mm)
- Black streaks (1-2 mm)
- Deformed chunky (90 – 98 cm: coring disturbance)
- Interbedded clay 7.5 Y 5/2 and black silty clay
- Black silty clay
- Interbedded black silt (1 mm)
- Black spots (3-5 mm)
- Black streaks (5-10 mm)
- Black spots (3-5 mm)
<table>
<thead>
<tr>
<th>Curved core depth (mbsf)</th>
<th>Core section</th>
<th>XCT image (stretched)</th>
<th>Linescan (stretched)</th>
<th>Void (V) or whole round (WR) interval</th>
<th>Sedimentary structures</th>
<th>VCD grain size estimate</th>
<th>Sedimentary structures</th>
<th>Close up photos (midpoint)</th>
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<th>Smear slides</th>
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</table>

**Additional Observations**

- **Color**: 7.5Y 3/2, 7.5Y 4/2
- **Iron monosulfide abundance**: 0, 1, 2, 3
- **Coring disturbance**: 0, 1, 2, 3
- **Bioturbation intensity**: 0, 1, 2, 3
- **Top contact**
- **Base contact**
- **Black dots <5mm**
- **Nodules**
- **Black dots 5mm**
- **Silt spots <5mm**
- **Black dots 3mm**
- **Black dots 5mm, patchy silt**
- **Black dots 5mm, gradational bioturbated**
- **Gradational bioturbated, black dots 5mm**
- **Gradational color**
- **Black dots 1mm, patchy silt**
- **Gradational color**
- **Black dots <1mm**
- **Patchy silt layer**
- **Gradational bioturbated, black dots 5mm**
- **Pumice 1cm, gradational bioturbation**
- **Black dots 1mm**
### Visual Core Descriptions: Site M0090B

<table>
<thead>
<tr>
<th>Curated Core Depth (mbsf)</th>
<th>Core Section</th>
<th>XCT Image (stretched)</th>
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<th>Void (V) or Whole Round (WR) Interval</th>
<th>VCD Grain Size Estimate</th>
<th>Sedimentary Structures</th>
<th>Close-up Photos (Midpoint)</th>
<th>Smear Slides</th>
<th>Tephra VCD Observations</th>
<th>Core Sections</th>
<th>Accessories</th>
<th>Top Contact</th>
<th>Base Contact</th>
<th>Coring Disturbance</th>
<th>Bioturbation Intensity</th>
<th>Iron Monosulfide Abundance</th>
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**Additional Observations**

- Black dots 5mm
- Patchy silt layers
- Black dots 5mm
- WR sample
- Cracks, black spots <3mm
- 7.5Y 4/2: in bag
- 7.5Y 6/2
Site M0090

Visual core descriptions

M0090C
1 of 1

Curated core depth (mbsf)
Core section
XCT image (stretched)
Linescan (stretched)
VCD grain size estimate
Sedimentary structures
Void (V) or whole round (WR) interval
Close up photos (midpoint)
Smear slides
Tephra VCD observations
Clay
Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand

Top contact
Base contact
Coring disturbance
Bioturbation intensity
Iron monosulfide abundance
Color

Additional Observations

Clay
Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand

Tephra VCD observations

Clay
Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand

Iron monosulfide abundance

Color

Site M0090

Visual core descriptions

M0090C
1 of 1

Curated core depth (mbsf)
Core section
XCT image (stretched)
Linescan (stretched)
VCD grain size estimate
Sedimentary structures
Void (V) or whole round (WR) interval
Close up photos (midpoint)
Smear slides
Tephra VCD observations
Clay
Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand

Top contact
Base contact
Coring disturbance
Bioturbation intensity
Iron monosulfide abundance
Color

Additional Observations

Clay
Clayey silt / silty clay
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Site M0090

Visual core descriptions

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Additional Observations

- 7.5Y 5/2: black spots <5mm
- 7.5Y 4/2: Open pores
- 7.5Y 5/2: black spots <3mm
- 7.5Y 4/2: open pores
- 7.5Y 3/1: load casts
- 7.5Y 4/2: load casts
- 7.5Y 4/2: gradational grain size
- 7.5Y 4/2: open pores

- Magnificent interval! Fall-in material from coring disturbance?

- (0–48 cm) many micas within vfs parts
- 7.5Y 5/2: Patchy white tephras included
- 7.5Y 4/2: thin white layer
- 7.5Y 4/2: WR sample
- 7.5Y 4/2: black dots 3mm
- 7.5Y 4/2: gradational color

- flame structure
- gradational grain size
- flame structure
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**Additional Observations**
- Black spots (< 3 mm)
- Spots (< 3 mm)
- Dots (< 2 mm)
- Black spots (< 3 mm) + oxidation at the very top cm
- Close up photo (29 – 55.5 cm)
- Oxidation patch
- Black spots (< 5 mm)
- Black spots 3-8 mm
- Black spots 3-5 mm
No bioturbation
black smudge
oxidation at bottom
black spots 8-10 mm
black smudge
black spots 5-6 mm
black smudge
nodules 2mm
black spots 3-5 mm
black smudge
black spots 5-8 mm
black streaks 3-5 mm
black smudge
black spots 3-5 mm
black spots 3-8 mm
Black spots 3-8 mm
Black spots 5-8 mm
gradational bioturbated, black patches
### Visual Core Descriptions

**Site M0090**

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**Additional Observations**

- Gradational grain size and bioturbation, Black spots 5-8mm
- Bioturbated surface, Black spots 5-8mm
- Black spots 5-8mm
- Black spots (5-8mm) with nodules (3 mm)
- Black smudges
- Black spots (5-8mm) with nodules (3 mm)
- Black smudges
- Black spots (5-8 mm)
- Black patches
- Black spots (3-8 mm)
- Silt streaks convoluted
- Black spots (3-8 mm)
- Black spots (3-5 mm)
- Black spots (10-15 mm)
- Black spots (8-10 mm)
- Deformed laminae
Deformed blocky/biscuit interval (coring disturbances) + highly oxidized
black spots 3-5mm
vfs patches
silt patches
white lithics?
black spots (5-8 mm)
Bioturb black spots (3-5 mm)
vfs interbedded with coarse silt
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**Tephra VCD observations**
- Inclined bedding (40 cm – 105 cm)
- Tephra is lenticular
- Vfs patches with silt
- Disturbed vfs
- Black spots 5mm
- Black stripes 1-2cm
- Black spots 5mm
- Black patches
- Graded bioturbated, black spots 5mm
- Black patches
- Black spots 5mm
- Black patches
- Black spots 5mm

**Sedimentary structures**
- Parallel laminated
- Wavy laminated
- Convolute
- Chaotic
- Graded
- Bioturbation intensity
- Iron monosulfide abundance

**Color**
- 7.5Y 4/2
- 7.5Y 7/2
Site M0090

Visual core descriptions

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- 7.5Y 4/2
- patches of silt
- black smudge
- black spots 3-8mm
- black smudge
- black spots 3-8mm
- black smudge
- black spots 3-8mm
- gradational bioturbation, black smudge
- nodule 3mm @78cm
Additional Observations

- Black spots <3mm
- Blended with silt
- Blended with very fine sand
- Nodules
- Black spots <3mm
- Spots (<5 mm) + nodules
- Some white spots (<5 mm, tephra)
- Spots (<5 mm) + nodules
- Spots (<5 mm) + shells (<2 mm, 42 cm)
- Dark layer
- Spots (<3 mm) + nodules
- Heavy oxidation along the core
- Black spots <5mm
- Clay
- Clayey silt / silty clay
- Clay-silt-sand
- Silt
- Silty sand / sandy silt
- Fine sand
- Medium sand
- Very fine sand
- Medium sand
- Iron monosulfide abundance
- Bioturbation intensity
- Coring disturbance
- Base contact
- Top contact
- Sedimentary structures
- Other sedimentary structures
- Convolute
- Parallel laminated
- Silt
- Silt
- Sand
- Sand
- Graded
- Wavy laminated
- Convolute
- Parallel laminated
- Heavy oxidation along the core
- CBI
- Smear slides
- Void (V) or whole round (WR) interval
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Visual core descriptions
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**General Observations**

- **Color:**
  - 5Y 5/2

**Additional Observations**

- **Iron monosulfide abundance:**
  - 0
  - 4
  - 2
  - 1
  - 0
  - 5

- **Bioturbation intensity:**
  - 0
  - 1
  - 2
  - 3
  - 4

- **Accessories:**
  - Top contact
  - Base contact
  - Coring disturbance

- **Other sedimentary structures:**
  - Parallel laminated
  - Wavy laminated
  - Convolute
  - Chaotic
  - Graded

- **Tephra VCD observations:**
  - Tephra VCD observations

- **Void (V) or whole round (WR) interval:**
  - V
  - WR

- **Close up photos (midpoints):**
  - Smear slides

- **Sedimentary structures:**
  - Clay
  - Clayey silt / silty clay
  - Clay-silt-sand
  - Silt
  - Silt layers are interbedded
  - Silt layers are interbedded
  - Very fine sand
  - Fine sand
  - Medium sand

- **VCD grain size estimate:**
  - black spots <5mm

- **Sedimentary structures:**
  - black spots <5mm
  - heavy oxidation along the core hides mottling intensity
  - patchy silty layers interbedded
  - black dots (< 5 mm)
  - silt layers are interbedded
  - black dots (5 mm)