White nannofossil-foraminifera ooze. Watery slurry with minor to moderate drilling disturbance.
White nannofossil-foraminifera ooze with occasional diffuse banding and vertical streaking of darker gray material. Slurry with moderate drilling disturbance and convex upwards arcuate bands caused by core penetration.

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Core length (cm)</th>
<th>Section</th>
<th>Lith. unit</th>
<th>Shipboard samples</th>
<th>Core image</th>
<th>Lithology</th>
<th>Drilling disturbance intensity</th>
<th>Drilling disturbance type</th>
<th>Bioturbation intensity</th>
<th>Sedimentary structures</th>
<th>Age</th>
<th>Nannofossil zone</th>
<th>Foraminifer zone</th>
<th>Natural gamma radiation (cps)</th>
<th>GRA bulk density (g/cm³)</th>
<th>Magnetic susceptibility (IU)</th>
<th>Reflectance b<em>a</em>L*</th>
</tr>
</thead>
</table>
White nannofossil-foraminifera ooze with occasional diffuse banding and vertical streaking of darker gray material. Slurry with moderate drilling disturbance and convex upwards arcuate bands caused by core penetration.
White nannofossil-foraminifera ooze with occasional diffuse banding and vertical streaking of darker gray material. Slurry with moderate drilling disturbance and convex upwards arcuate bands caused by core penetration.
Hole 391-U1575A Core 5R, Interval 38.3-47.01 m (CSF-A)

White nannofossil-foraminifera ooze with occasional diffuse banding and vertical streaking of darker gray material. Slurry with moderate drilling disturbance and convex upwards arcuate bands caused by core penetration.

<table>
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<tr>
<th>Depth (m)</th>
<th>Core length (cm)</th>
<th>Section</th>
<th>Lith. unit</th>
<th>Shipboard samples</th>
<th>Core image</th>
<th>Lithology</th>
<th>Drilling disturbance intensity</th>
<th>Drilling disturbance type</th>
<th>Bioturbation intensity</th>
<th>Sedimentary structures</th>
<th>Age</th>
<th>Nannofossil zone</th>
<th>Foraminifer zone</th>
<th>Natural gamma radiation (cps)</th>
<th>GRA bulk density (g/cm³)</th>
<th>Magnetic susceptibility SHMSL, WRMSL (μT)</th>
<th>Reflectance</th>
<th>GRA, P, L, S, N</th>
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</table>
White nannofossil-foraminifera ooze with occasional diffuse banding and vertical streaking of darker gray material. Slurry with moderate drilling disturbance and convex upwards arcuate bands caused by core penetration.

<table>
<thead>
<tr>
<th>Depth (m)</th>
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<th>Section</th>
<th>Lithology</th>
<th>Core image</th>
<th>Dating disturbance intensity</th>
<th>Drilling disturbance type</th>
<th>Bioturbation intensity</th>
<th>Sedimentary structures</th>
<th>Age</th>
<th>Foraminifer zone</th>
<th>Nannofossil zone</th>
<th>Natural gamma radiation (cps)</th>
<th>GRA bulk density (g/cm²)</th>
<th>Magnetic susceptibility SHMSL WRMSL (IU)</th>
<th>Reflectance L<em>a</em>b*</th>
</tr>
</thead>
</table>
White nannofossil-foraminifera ooze with occasional diffuse banding and vertical streaking of darker gray material. Slurry with moderate drilling disturbance and convex upwards arcuate bands caused by core penetration.
White nannofossil-foraminifera ooze with occasional diffuse banding and vertical streaking of darker gray material. Slurry with moderate drilling disturbance and convex upwards arcuate bands caused by core penetration.
White nannofossil-foraminifera ooze with occasional diffuse banding and vertical streaking of darker gray material. Slurry with moderate drilling disturbance and convex upwards arcuate bands caused by core penetration.
White nannofossil-foraminifera ooze with occasional diffuse banding and vertical streaking of darker gray material. Slurry with moderate drilling disturbance and convex upwards arcuate bands caused by core penetration.
White nannofossil-foraminifera ooze with occasional diffuse banding and vertical streaking of darker gray material. Slurry with moderate drilling disturbance and convex upwards arcuate bands caused by core penetration.
White nannofossil-foraminifera ooze, homogenous with swirls of darker gray. Slurry with moderate drilling disturbance caused by core penetration.
White nannofossil-foraminifera ooze; homogenous with swirls of darker gray. Slurry with moderate drilling disturbance caused by core penetration.
White nannofossil-foraminifera ooze; homogenous. Slurry with slight to moderate drilling disturbance caused by core penetration.
White nannofossil-foraminifera ooze. Commonly homogenous with occasional diffuse banding of darker gray material. Slurry with slight to moderate drilling disturbance caused by core penetration.
White nannofossil-foraminifera ooze with indistinct greenish-gray banding with variable spacing. Slurry with moderate drilling disturbance caused by core penetration.
White nannofossil-foraminifera ooze with indistinct greenish-gray banding with variable spacing. Slurry with moderate drilling disturbance caused by core penetration.
White nannofossil-foraminifera ooze with indistinct greenish-gray banding with variable spacing. Slurry with moderate drilling disturbance caused by core penetration.
White nannofossil-foraminifera ooze homogenous. Slurry with moderate drilling disturbance caused by core penetration.
White nannofossil-foraminifera ooze. The sediment is commonly homogenous with occasional diffuse banding of brown or tan material. Slurry with moderate drilling disturbance caused by core penetration.

<table>
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<tr>
<th>Depth (m)</th>
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<th>Bioturbation intensity</th>
<th>Sedimentary structures</th>
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</table>
Pale brown nannofossil-foraminifera clayey sandstone/chalk, including some intensely bioturbated horizons. The core is fractured with slight to moderate drilling disturbance caused by core rotation.
Pale pink nannofossil-foraminifera silty claystone/chalk with some shell (inoceramid) fragments and bioturbation. The core is fractured/brecciated with variable drilling disturbance caused by core rotation.
UNIT: 1a
LITHOLOGY: highly plagioclase-pyroxene-olivine basalt
TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 10-17%.
PRIMARY MINERALOGY: Plag>>Px>Ol
DESCRIPTION: Top of massive sheet flow, continues into Section 6. Aphanitic flow margin with 1 cm thick rim of quenched glass below pelagic sediment.
**LITHOLOGY**: highly plagioclase-pyroxene-olivine basalt

**TEXTURE**: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 10-17%.

**PRIMARY MINERALOGY**: Plag>>Px>Ol

**DESCRIPTION**: Massive sheet flow, continues into core U1575A 23R. Fine-grained flow interior, sparsely vesicular.

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<tr>
<th>Depth (m)</th>
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<th>Phenocrysts</th>
<th>CL, PLUG, PROJ abundance (%)</th>
<th>TiO2 (ppm)</th>
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<th>Magnetic susceptibility (KSL)</th>
<th>Reflectance</th>
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391-U1575A-22R-6-A, 0-124 cm

UNIT: 1a

LITHOLOGY: highly plagioclase-pyroxene-olivine basalt

TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 10-17%, equigranular groundmass.

DESCRIPTION: Massive sheet flow, continues into core U1575A 23R. Fine-grained flow interior, sparsely vesicular.
391-U1575A-23R-1-A, 0-74 cm
UNIT: 1a
LITHOLOGY: highly plagioclase-pyroxene-olivine basalt
TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 10-17%.
PRIMARY MINERALOGY: Plag>>Px>Ol
DESCRIPTION: Massive sheet flow. fine-grained flow interior, sparsely vesicular.

391-U1575A-23R-1-B, 74-146 cm
UNIT: 1b
LITHOLOGY: highly plagioclase-pyroxene-olivine basalt
TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 17-20%.
PRIMARY MINERALOGY: Plag>>Px>Ol
DESCRIPTION: Massive sheet flow. fine-grained flow interior, sparsely vesicular. Glass margin defines top of the flow unit.
**Hole 391-U1575A-23R Section 2, Top of Section: 214.96 m (CSF-A)**

**Lithology:** Highly plagioclase-pyroxene-olivine basalt

**Texture:** Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 17-20%.

**Primary Mineralogy:** Plag >> Px > Ol

**Description:** Massive sheet flow. Fine-grained flow interior, sparsely vesicular. Continued from section 1.

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Core Length (m)</th>
<th>Core number</th>
<th>Core type</th>
<th>Core length (cm)</th>
<th>Depth (m)</th>
<th>Orientation</th>
<th>Alteration intensity</th>
<th>Reflectance L* a* b*</th>
<th>Magnetic susceptibility (IS)</th>
<th>Natural gamma radiation (cps)</th>
<th>TiO2 (ppm)</th>
<th>Site 1575</th>
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</table>

**Visual core descriptions:**

- Highly porphyritic with fine-grained, equigranular groundmass. Phenocrysts = 17-20%.

**Site U1575**

**Visual core descriptions:**

- Highly porphyritic with fine-grained, equigranular groundmass. Phenocrysts = 17-20%.
**Hole 391-U1575A-23R Section 3, Top of Section: 216.46 m (CSF-A)**

**LITHOLOGY:** Highly plagioclase-pyroxene-olivine basalt

**TEXTURE:** Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 17-20%.

**PRIMARY MINERALS:** Plag>>Px>Ol

**DESCRIPTION:** Massive sheet flow. Fine-grained flow interior, sparsely vesicular. Continued from section 2.

---

**Visual core descriptions**

<table>
<thead>
<tr>
<th>TiO₂ (ppm)</th>
<th>Natural gamma radiation (cps)</th>
<th>Magnetic susceptibility (SI)</th>
<th>Reflectance b<em>a</em>L*</th>
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**Site U1575**

**Core number**

**Core length (cm)**

**Depth (m)**

**Core image**

**Shipboard samples**

**Orientation**

**Igneous lith. unit**

**Piece number**

---

**391-U1575A-23R-3-A, 0-142 cm**

**LITHOLOGY:** Highly plagioclase-pyroxene-olivine basalt

**TEXTURE:** Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 17-20%

**PRIMARY MINERALS:** Plag>>Px>Ol

**DESCRIPTION:** Massive sheet flow. Fine-grained flow interior, sparsely vesicular. Continued from section 2.
**Hole 391-U1575A-23R Section 4, Top of Section: 217.88 m (CSF-A)**

LITHOLOGY: Highly plagioclase-pyroxene-olivine basalt

TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 17-20%.

PRIMARY MINERALOGY: Plag>>Px>Ol


### Visual Core Descriptions

<table>
<thead>
<tr>
<th>Depth (m)</th>
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<th>Core label</th>
<th>Orientation</th>
<th>Phoenocysts</th>
<th>TiO2 (ppm)</th>
<th>Natural gamma radiation (cps)</th>
<th>Magnetic susceptibility (LSI)</th>
<th>Reflectance L* a* b*</th>
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</tbody>
</table>

391-U1575A-23R-A, 0-51 cm

LITHOLOGY: Highly plagioclase-pyroxene-olivine basalt

TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 17-20%

PRIMARY MINERALOGY: Plag>>Px>Ol

DESCRIPTION: Massive sheet flow, fine-grained feldspar, sparsely vesicular. Continued from section 3.
### Hole 391-U1575A-24R Section 1, Top of Section: 217.7 m (CSF-A)

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Core number</th>
<th>Core length (cm)</th>
<th>Orientation</th>
<th>Phases/veins</th>
<th>Alteration intensity</th>
<th>Lithology</th>
<th>Core number</th>
<th>Piece number</th>
<th>Visual core descriptions</th>
</tr>
</thead>
</table>
| 217.10    |             |                  |             |              |                     |           | 1b          | 391-U1575A-24R-1, 0-25.5 cm | UNIT: 1b  
LITHOLOGY: highly plagioclase-pyroxene-olivine basalt  
TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 17-20%  
PRIMARY MINERALOGY: Plag>>Px>Ol  
DESCRIPTION: Massive sheet flow. fine-grained flow interior, sparsely vesicular. Micritic layer likely infill, not flow boundary. Continued from Core 23R Section 4. |
| 217.20    | 1           | 10               |             |              |                     |           | 1b          | 391-U1575A-24R-1, 0-25.5 cm |          |
| 217.30    | 2           | 15               |             |              |                     |           | 1b          | 391-U1575A-24R-1, 0-25.5 cm |          |
| 217.50    | 3           | 20               |             |              |                     |           | 1b          | 391-U1575A-24R-1, 0-25.5 cm |          |
| 218.00    | 4           |                  |             |              |                     |           |           | 391-U1575A-24R-1, 25.5-30 cm | UNIT: S1  
LITHOLOGY: Calcereous rock (chalk)  
TEXTURE:                     |          |
| 218.10    |             | 40               |             |              |                     |           | 1b          | 391-U1575A-24R-1, 25.5-30 cm |          |
| 218.20    |             | 50               |             |              |                     |           | 1b          | 391-U1575A-24R-1, 25.5-30 cm |          |
| 218.30    |             |                  |             |              |                     |           | 1b          | 391-U1575A-24R-1, 25.5-30 cm |          |
| 218.40    |             | 60               |             |              |                     |           | 1b          | 391-U1575A-24R-1, 25.5-30 cm |          |
| 218.50    |             | 70               |             |              |                     |           | 1b          | 391-U1575A-24R-1, 25.5-30 cm |          |
| 218.60    |             | 80               |             |              |                     |           | 1b          | 391-U1575A-24R-1, 25.5-30 cm |          |
| 218.70    |             | 90               |             |              |                     |           | 1b          | 391-U1575A-24R-1, 25.5-30 cm |          |
| 218.80    |             |                  |             |              |                     |           | 1b          | 391-U1575A-24R-1, 25.5-30 cm |          |
| 218.90    |             | 100              |             |              |                     |           | 1b          | 391-U1575A-24R-1, 25.5-30 cm |          |
| 219.00    |             | 110              |             |              |                     |           | 1b          | 391-U1575A-24R-1, 25.5-30 cm |          |
| 219.10    |             | 120              |             |              |                     |           | 1b          | 391-U1575A-24R-1, 25.5-30 cm |          |
| 219.20    |             | 130              |             |              |                     |           | 1b          | 391-U1575A-24R-1, 25.5-30 cm |          |
| 219.30    |             | 140              |             |              |                     |           | 1b          | 391-U1575A-24R-1, 25.5-30 cm |          |
| 219.40    |             | 150              |             |              |                     |           | 1b          | 391-U1575A-24R-1, 25.5-30 cm |          |

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**Visual core descriptions**

- **UNIT: S1**  
  - LITHOLOGY: Calcereous rock (chalk)  
  - TEXTURE:                     |          |
- **UNIT: 2a**  
  - LITHOLOGY: highly plagioclase-pyroxene-olivine basalt  
  - TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 13-22%  
  - PRIMARY MINERALOGY: Plag>>Px>Ol  
  - DESCRIPTION: Massive sheet flow. fine-grained flow interior, sparsely vesicular.
### Unit 2a

**Lithology:** Highly plagioclase-pyroxene-olivine basalt

**Texture:** Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 13-22%.

**Primary Mineralogy:**
- Plag >> Px > Ol

**Description:** Massive sheet flow, fine-grained flow interior, sparsely vesicular. Continued from section 1.

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Core length (cm)</th>
<th>Piece number</th>
<th>Core top</th>
<th>Alteration intensity</th>
<th>Veins</th>
<th>Phenocrysts (Plag, Px, Ol) abundance (%)</th>
<th>TiO₂ (ppm)</th>
<th>Magnetic susceptibility (units)</th>
<th>Natural gamma radiation (cps)</th>
<th>Reflectance bₙ aₙ L*</th>
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**Hole 391-U1575A-24R Section 2, Top of Section: 219.2 m (CSF-A)**

*Site U1575, IODP Site 1575A-24R, 0-139 cm*

- **Lithology:** Highly plagioclase-pyroxene-olivine basalt
- **Texture:** Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 13-22%
- **Primary Mineralogy:** Plag > Px > Ol
- **Description:** Massive sheet flow, fine-grained flow interior, sparsely vesicular. Continued from section 1.
LITHOLOGY: highly plagioclase-pyroxene-olivine basalt
TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 13-22%.
PRIMARY MINERALOGY: Plag>>Px>Ol
DESCRIPTION: Massive sheet flow. fine-grained flow interior, sparsely vesicular. Continued from Section 2.

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<th>Core number</th>
<th>Core length (cm)</th>
<th>Core type</th>
<th>Orientation</th>
<th>TTO (ppm)</th>
<th>TiO2 (ppm)</th>
<th>Magnetic susceptibility (IU)</th>
<th>Natural gamma radiation (cps)</th>
<th>Reflectance L* a* b*</th>
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Hole 391-U1575A-24R Section 3, Top of Section: 220.59 m (CSF-A)

Site U1575
LITHOLOGY: Highly plagioclase-pyroxene-olivine basalt

TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 13-22%.

DIRECT ANALYTICAL RESULTS:
- TiO$_2$: 0.29%
- Magnetic susceptibility (LISIM): 1.2 (IU)
- Natural gamma radiation (cps): 3.2
- Phanerocrystal OL, PLG, PIR abundance: 22%
- Reflectance (L^2): 8.5

SITE U1575

Hole 391-U1575A-25R Section 1, Top of Section: 223.3 m (CSF-A)

Continued from U1575A 24R section 3.
WARD: highly plagioclase-pyroxene-olivine basalt

TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 13-22%.

PRIMARY MINERALOGY: Plag>>Px>Ol

DESCRIPTION: Massive sheet flow. fine-grained flow interior, non-vesicular. Continued from section 1.
<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Core length (cm)</th>
<th>Corer</th>
<th>Core number</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>226.05</td>
<td>0-89 cm</td>
<td>2a</td>
<td>391-U1575A-25R-3-A</td>
<td>Massive sheet flow, fine-grained flow interior, non-vesicular. Continued from section 2.</td>
</tr>
<tr>
<td>226.30</td>
<td>89-144 cm</td>
<td>2a</td>
<td>391-U1575A-25R-3-A</td>
<td>Massive lava flow. Vesicle-rich region with relatively large open vesicles. Vesicle-rich zone extends several cm into top of flow.</td>
</tr>
</tbody>
</table>

**Lithology:** moderately plagioclase-pyroxene-olivine basalts.

**Texture:** Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 13-22%.

**Primary Mineralogy:** Plag > Px. Ol.

**Description:**
- **Unit:** 2a
- **Lithology:** moderately plagioclase-pyroxene-olivine basalts.
- **Texture:** Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 13-22%.
- **Primary Mineralogy:** Plag > Px. Ol.
- **Description:** Massive sheet flow. Fine-grained flow interior, non-vesicular. Continued from section 2.
Hole 391-U1575A-25R Section 4, Top of Section: 227.49 m (CSF-A)

UNIT: 2a
LITHOLOGY: moderately plagioclase-pyroxene
phyric basalt
TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 13-22%.
PRIMARY MINERALOGY: Plag>Px>Ol
DESCRIPTION: Massive lava flow, fine-grained interior. Continued from section 3.
LITHOLOGY: moderately plagioclase-pyroxene phyric basalt

TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 13-22%.

PRIMARY MINERALOGY: Plag>Px>Ol


Hole 391-U1575A-25R Section 5, Top of Section: 228.87 m (CSF-A)

391-U1575A-25R-5-A, 0-60 cm
UNIT: 2a
LITHOLOGY: moderately plagioclase-pyroxene phyric basalt
TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 13-22%
PRIMARY MINERALOGY: Plag>Px>Ol
UNIT: 2a
LITHOLOGY: highly plagioclase-pyroxene-olivine phyric basalt.
TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 13-22%.
PRIMARY MINERALOGY: Plag>>Px>Ol

391-U1575A-26R Section 1, Top of Section: 229.0 m (CSF-A)

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<th>Core length (cm)</th>
<th>Piece number</th>
<th>Core sample</th>
<th>Orientation</th>
<th>Reflectance</th>
<th>TiO2 (ppm)</th>
<th>Magnetic susceptibility (Ku)</th>
<th>Natural gamma radiation (cps)</th>
<th>Veins</th>
<th>Alteration intensity</th>
<th>Phenocrysts</th>
<th>Core length (cm)</th>
<th>Depth (m)</th>
<th>Site U1575</th>
<th>Site U1575</th>
<th>Visual core descriptions</th>
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391-U1575A-26R-1-A, 0-140 cm
LITHOLOGY: highly plagioclase-pyroxene-olivine phyric basalt.
TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 13-22%.
PRIMARY MINERALOGY: Plag>>Px>Ol
391-U1575A-26R-2-A, 0-110 cm
UNIT: 2a
LITHOLOGY: highly plagioclase-pyroxene-olivine
phyric basalt.
TEXTURE: Glomeroporphyritic with fine-grained,
equigranular groundmass. Phenocrysts = 13-22%.
PRIMARY MINERALOGY: Plag>>Px>Ol
DESCRIPTION: Massive lava flow, fine-grained
interior. Continued from U1575A 25R section 5.

391-U1575A-26R-2-A, 110-116 cm
UNIT: 2a
LITHOLOGY: Highly altered glass from top of
underlying flow.
TEXTURE: Glomeroporphyritic with fine-grained,
equigranular groundmass. Phenocrysts = 13-22%.
PRIMARY MINERALOGY: Plag>>Px>Ol
DESCRIPTION: Highly altered glass from top of
underlying flow; marks upper flow contact of this unit.
More glass in next Section.
LITHOLOGY: moderately plagioclase-pyroxene-olivine phyric basalt. TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 5-18%.

PRIMARY MINERALOGY: Plag>Px>Ol

DESCRIPTION: Massive lava flow, fine-grained interior.
Hole 391-U1575A-26R Section 4, Top of Section: 232.37 m (CSF-A)

LITHOLOGY: moderately plagioclase-pyroxene-olivine phyric basalt.

TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 5-18%.

PRIMARY MINERALOGY: Plag >> Px > Ol

DESCRIPTION: Massive lava flow, fine-grained interior. Continued from Section 3.

Site U1575

391-U1575A-26R-4-A, 0-145 cm

UNIT: 2b

Phenocrysts  OL, PLAG, PYN abundance (%) 

TiO₂ (ppm)  Natural gamma radiation (cps)  Magnetic susceptibility (µemu cm /g)

Reflectance L* a* b*

Phenocrysts  OL, PLAG, PYN abundance (%)  25  20  15  10  5  0

Veins  Alteration intensity

Igneous lith. unit  Core length (cm)  Depth (m)  TiO₂ (ppm)  Magnetic susceptibility (µemu cm /g)

Site U1575

Visual core descriptions
Description: Massive lava flow, fine-grained interior. Continued from Section 4.

**LITHOLOGY:** moderately plagioclase-pyroxene-olivine phyric basalt.

**TEXTURE:** Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 5-18%.

**PRIMARY MINERALOGY:** Plag>>Px>Ol

**DESCRIPTION:** Massive lava flow, fine-grained interior. Continued from Section 4.
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<th>Core length (cm)</th>
<th>Core number</th>
<th>Lithology</th>
<th>Texture</th>
<th>Phenocrysts</th>
<th>TiO₂ (ppm)</th>
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</table>

**Description**: Massive lava flow, fine-grained interior. Continued from U1575 26R.

**LITHOLOGY**: Highly plagioclase-pyroxene-olivine phyric basalt.

**TEXTURE**: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 5-15%.

**PRIMARY MINERALOGY**: Plag>>Px=Ol

**VEINS**: OL, PLAG, PXN abundance (%) 25

**ALTERATION INTENSITY**: Low

**MAGNETIC SUSCEPTIBILITY**: Low

**NATURAL GAMMA RADIATION**: Low

**TIO2 (PPM)**: 18,000

**MAGEE (IU)**: 2000

**Tb**: Site U1575, Site U1575

**Visual core descriptions**: 42
LITHOLOGY: highly plagioclase-pyroxene-olivine phyric basalt.

TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 10-16%.

PRIMARY MINERALOGY: Plag=Px>Ol

DESCRIPTION: Sheet flow; continued from U1575A Section 2.

LITHOLOGY: highly plagioclase-pyroxene-olivine phyric basalt.

TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 14-16%.

PRIMARY MINERALOGY: Plag=Px>Ol

DESCRIPTION: Sheet flow; top of flow marked by chilled margin, discoloration that fades into the interior.
391-U1575A-28R-2-A, 0-59 cm
UNIT: 3c
LITHOLOGY: highly plagioclase-pyroxene-olivine phyric basalt.
TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 14-16%.
PRIMARY MINERALOGY: Plag=Px>Ol
DESCRIPTION: Sheet flow; top of flow marked by chilled margin, discoloration that fades into the interior (Continued from section 1).

391-U1575A-28R-2-A, 59-139 cm
UNIT: 3d
LITHOLOGY: highly plagioclase-pyroxene-olivine phyric basalt.
TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 4-8%, up to 16% near top of unit.
PRIMARY MINERALOGY: Plag=Px>Ol
DESCRIPTION: Lobate lava flow; top of flow marked by chilled, finer grained margin.

391-U1575A-28R-2-A, 139-150 cm
UNIT: 3d
LITHOLOGY: highly plagioclase-pyroxene-olivine phyric basalt.
TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 4-8%, up to 16% near top of unit.
PRIMARY MINERALOGY: Plag=Px>Ol
DESCRIPTION: Lobate lava flow; mostly rubble in bins.
**LITHOLOGY:** Highly plagioclase-pyroxene-olivine phyric basalt.

**TEXTURE:** Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 4-8%, up to 16% near top of unit.

**PRIMARY MINERALOGY:** Plag=Px>Ol

**DESCRIPTION:** Lobate flow; mostly rubble in bins.

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<th>Depth (m)</th>
<th>Core length (cm)</th>
<th>Piece number</th>
<th>Orientation</th>
<th>Phenocrysts</th>
<th>OL, PLAG, PXN abundance (%)</th>
<th>TiO₂ (ppm)</th>
<th>Natural gamma radiation (c.p.s)</th>
<th>Magnetic susceptibility (X₁₀⁻⁶ SI)</th>
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**Site U1575**

**Visual core descriptions**

Hole 391-U1575A-28R Section 3, Top of Section: 242.65 m (CSF-A)

TiO₂ (ppm)

- 18000
- 16000
- 14000
- 12000
- 10000
- 8000
- 6000
- 4000
- 2000
- 0

**Site U1575**
UNIT: 3d

LITHOLOGY: moderately plagioclase-pyroxene-olivine phyric basalt.

TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 4-8%, up to 16% near top of unit.

PRIMARY MINERALOGY: Plag=Px>Ol

DESCRIPTION: Pillow lava flow. Large 30-50 cm diameter pillows; thick glass rims.

Site U1575

Hole 391-U1575A-29R Section 1, Top of Section: 244.7 m (CSF-A)

<table>
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391-U1575A-29R-1-A, 0-544 cm

LITHOLOGY: moderately plagioclase-pyroxene-olivine phyric basalt. TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 4-8%, up to 16% near top of unit.

PRIMARY MINERALOGY: Plag=Px>Ol

Description: Pillow lava flow. Large 30-50 cm diameter pillows; thick glass rims.
Hole 391-U1575A-29R Section 2, Top of Section: 246.14 m (CSF-A)

**391-U1575A-29R-2-A, 0-92 cm**

**UNIT:** 3d

**LITHOLOGY:** moderately plagioclase-pyroxene-olivine phyric basalt.

**TEXTURE:** Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 4-8%, up to 16% near top of unit.

**PRIMARY MINERALOGY:** Plag=Px>Ol

**DESCRIPTION:** Pillow lava flow? No glass rims but similar to chilled outer regions of the pillows above.

**391-U1575A-29R-2-A, 92-145 cm**

**UNIT:** 3d

**LITHOLOGY:** sparsely plagioclase-pyroxene-olivine phyric basalt.

**TEXTURE:** Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 4-8%, up to 16% near top of unit.

**PRIMARY MINERALOGY:** Plag=Px>Ol

**DESCRIPTION:** Pillow lava flow? Glass marks flow top, or pillow rims. Same aphanitic chilled, slightly pink basalt similar to outer region of pillows.
**Visual core descriptions**

**Hole 391-U1575A-29R Section 3, Top of Section: 247.59 m (CSF-A)**

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<th>Core number</th>
<th>Core length (cm)</th>
<th>Orientation</th>
<th>Geology</th>
<th>Magnetic susceptibility (kI)</th>
<th>TiO₂ (ppm)</th>
<th>Reflectance L², a², b²</th>
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<td>0-30 cm</td>
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**LITHOLOGY:** Sparsely plagioclase-pyroxene-olivine phyric basalt.

**TEXTURE:** Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 4-8%, up to 16% near top of unit.

**PRIMARY MINERALOGY:** Plag>Px>Ol

**DESCRIPTION:** Pillow lava flow? No glass. Same aphanitic chilled, slightly pink basalt similar to outer region of pillows.
**391-U1575A-30R-1-A, 0-53 cm**

**UNIT:** 3d

**LITHOLOGY:** sparsely plagioclase-pyroxene phyric basalt.

**TEXTURE:** Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 4-8%, up to 16% near top of unit.

**PRIMARY MINERALOGY:** Plag>Px; Ol

**DESCRIPTION:** Pillow lava flow? No glass. Same aphanitic chilled, slightly pink basalt similar to outer region of pillows.

---

**391-U1575A-30R-1-A, 53-108 cm**

**UNIT:** 4a

**LITHOLOGY:** sparsely plagioclase-pyroxene phyric basalt, with rare olivine (<<1%).

**TEXTURE:** Porphyritic with aphanitic, microcrystalline groundmass. Phenocrysts = 3-6%.

**DESCRIPTION:** Massive sheet flow. No contact preserved with overlying pillow lavas.
UNIT: 4a
LITHOLOGY: sparsely plagioclase-pyroxene phyric basalt, with rare olivine (<1%).

TEXTURE: Porphyritic with aphanitic, microcrystalline groundmass. Phenocrysts = 3-6%.

PRIMARY MINERALOGY: Plag>Px; rare Ol

**Hole 391-U1575A-30R Section 3, Top of Section: 251.59 m (CSF-A)**

- **Lithology:** Sparsely plagioclase-pyroxene phyric basalt, with rare olivine (<1%).
- **Texture:** Porphyritic with aphanitic, microcrystalline groundmass. Phenocrysts = 3-6%.
- **Primary Mineralogy:** Plag >> Px; rare Ol.
- **Description:** Massive sheet flow. Continued from section 2.

### Table

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Core length (cm)</th>
<th>Piece number</th>
<th>Orientation</th>
<th>Phenocryst %</th>
<th>TiO2 (ppm)</th>
<th>Natural gamma radiation (cps)</th>
<th>Magnetic susceptibility (pSI)</th>
<th>Reflectance</th>
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</tbody>
</table>

**Notes:**
- **Lithology:** Sparsely plagioclase-pyroxene phyric basalt, with rare olivine (<1%).
- **Texture:** Porphyritic with aphanitic, microcrystalline groundmass. Phenocrysts = 3-6%.
- **Primary Mineralogy:** Plag >> Px; rare Ol.
- **Description:** Massive sheet flow. Continued from section 2.
Hole 391-U1575A-31R Section 1, Top of Section: 254.5 m (CSF-A)

**Setting:**

- **Unit:** 4a
- **Lithology:** Sparsely plagioclase-pyroxene phyric basalt, with rare olivine (<1%).
- **Texture:** Porphyritic with aphanitic, microcrystalline groundmass. Phenocrysts = 3-6%.
- **Primary Mineralogy:** Plag > Px; rare Ol
- **Description:** Massive sheet flow. Continued from U1575A 30R-3. Base of massive sheet flow.

**Setting:**

- **Unit:** 4b
- **Lithology:** Sparsely plagioclase-pyroxene phyric basalt, with rare olivine (<1%).
- **Texture:** Porphyritic with aphanitic, microcrystalline groundmass. Phenocrysts = 3-6%.
- **Primary Mineralogy:** Plag > Px; rare Ol
- **Description:** Massive sheet flow. Top of flow marked by abrupt color texture change from base of overlying flow.

---

**Visual Core Descriptions:**

- **TiO₂ (ppm):** 18000, 16000, 14000, 12000
- **Natural gamma radiation (cps):** 15, 10, 5, 0
- **Magnetic susceptibility (μmT):** 1500, 1000, 500, 0
- **Phenocrysts abundance (%):** 25, 20, 15, 10, 5, 0
- **Veins alteration intensity:**
- **Lithology:**
- **Core:**
- **Shipboard samples:**
- **Orientation:**
- **Igneous lith. unit:**
- **Piece number:**
- **Core length (cm):**
- **Depth (m):**

---

**Additional Observations:**

- **Site U1575**

---

**Reflectance (L* a* b*):**

- **Description:**

---

**Additional Notes:**

- **Additional Core Descriptions:**
- **Additional Observations:**
- **Additional Data:**
Site U1575

Hole 391-U1575A-31R Section 2, Top of Section: 255.91 m (CSF-A)

UNIT: 4b
LITHOLOGY: sparsely plagioclase-pyroxene phyric basalt, with rare olivine (<<1%).
TEXTURE: Porphyritic with aphanitic, microcrystalline groundmass. Phenocrysts = 3-6%.
PRIMARY MINERALOGY: Plag>Px; rare Ol

391-U1575A-31R-2-A, 0-122 cm
UNIT: 4b
LITHOLOGY: sparsely plagioclase-pyroxene phyric basalt, with rare olivine (<<1%).
TEXTURE: Porphyritic with aphanitic, microcrystalline groundmass. Phenocrysts = 3-6%.
PRIMARY MINERALOGY: Plag>Px; rare Ol
Hole 391-U1575A-31R Section 3, Top of Section: 257.13 m (CSF-A)

LITHOLOGY: sparsely plagioclase-pyroxene phyric basalt, with rare olivine (<<1%).

TEXTURE: Porphyritic with aphanitic, microcrystalline groundmass. Phenocrysts = 3-6%.

PRIMARY MINERALOGY: Plag>Px; rare Ol


Site U1575

Visual core descriptions
**Hole 391-U1575A-32R Section 1, Top of Section: 259.2 m (CSF-A)**

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<th>Depth (m)</th>
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<th>Orientation</th>
<th>Visual core descriptions</th>
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<tr>
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<tr>
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<tr>
<td>260.20</td>
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<td>4</td>
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</table>

**LITHOLOGY:** sparsely plagioclase-pyroxene phyric basalt with rare olivine (<1%).

**TEXTURE:** Porphyritic with aphanitic, microcrystalline groundmass. Phenocrysts = 3-6%.

**PRIMARY MINERALOGY:** Plag>Px; rare Ol

**DESCRIPTION:** Massive sheet flow. No upper contact in this core, but can’t say if it continues from core above because of low recovery (54%).

**Table:**

- **Reflectance (b*a*L*):**
  - 32.0

- **Magnetic susceptibility (WRMSL):**
  - 1600

- **Natural gamma radiation (cps):**
  - 15

- **Phenocrysts abundances:**
  - OL, PLAG, PXN
  - 25%

- **Veins Alteration intensity:**
  - 15

- **Lithology Core image:**

**Site U1575**

**Visual core descriptions**
UNIT: 4b
LITHOLOGY: sparsely plagioclase-pyroxene phyric basalt, with rare olivine (<1%).
TEXTURE: Porphyritic with aphanitic, microcrystalline groundmass. Phenocrysts = 3-6%.
PRIMARY MINERALOGY: Plag>Px; rare Ol

UNIT: 5
LITHOLOGY: sparsely plagioclase-pyroxene phyric basalt, with rare olivine (0-1%).
TEXTURE: Porphyritic with aphanitic, microcrystalline groundmass. Phenocrysts = 3-10%.
PRIMARY MINERALOGY: Plag=Px>>rare Ol
DESCRIPTION: Pillow lava or thin sheet flows. Flow fragments with aphanitic texture resemble pillow interiors, but no glass preserved. Only 54% recovery this core run.
### HOLE 391-U1575A-32R SECTION 3, TOP OF SECTION: 261.96 m (CSF-A)

**SITE U1575**

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Core length (cm)</th>
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<th>Core type</th>
<th>Description</th>
<th>Phenocrysts</th>
<th>TiO₂ (ppm)</th>
<th>Magnetic susceptibility (μT)</th>
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<th>Reflection (a°)</th>
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</table>

**391-U1575A-32R-3-A, 0-25 cm**

**UNIT:** Sparsely plagioclase-pyroxene phyric basalt, with rare olivine (0-1%).

**TEXTURE:** Porphyritic with aphanitic, microcrystalline groundmass. Phenocrysts = 3-10%.

**PRIMARY MINERALOGY:** Plag=Px>>rare Ol

**DESCRIPTION:** Pillow lava or thin sheet flows. Glass selvage on top, either pillow rim or top of thin sheet flow. Interior aphanitic, pinkish, so likely pillow interior. Same pillow unit as section 2.
**Lithology:** Sparsely plagioclase-pyroxene phyric basalt, with rare olivine (0-1%).

**Texture:** Porphyritic with aphanitic, microcrystalline groundmass. Phenocrysts = 3-10%.

**Primary Mineralogy:**
- Plag = Px >> rare Ol

**Description:** Pillow lava. Glass selvages on many fragments. Same pillow unit as U1575A 32R-3.
**UNIT: 5**

**LITHOLOGY:** sparsely plagioclase-pyroxene phyric basalt, with rare olivine (0-1%).

**TEXTURE:** Porphyritic with aphanitic, microcrystalline groundmass. Phenocrysts = 3-10%.

**PRIMARY MINERALOGY:** Plag=Px>>rare Ol

**DESCRIPTION:** Pillow lava. Glass selvages on many fragments. Same pillow unit as section 1.

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Reflectance (b<em>a</em>L*)</th>
<th>Magnetic susceptibility (rL)</th>
<th>Natural gamma radiation (cps)</th>
<th>Phenocrysts</th>
<th>TiO2 (ppm)</th>
<th>Plag</th>
<th>Ppx</th>
<th>Crq</th>
<th>Pn</th>
<th>Ol</th>
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</table>

**Site:** U1575

**Visual core descriptions:**

391-U1575A-33R-2-A, 0-109 cm

UNIT 5

LITHOLOGY: sparsely plagioclase-pyroxene phyric basalt, with rare olivine (0-1%).

TEXTURE: Porphyritic with aphanitic, microcrystalline groundmass. Phenocrysts = 3-10%.

PRIMARY MINERALOGY: Plag=Px>>rare Ol

DESCRIPTION: Pillow lava. Glass selvages on many fragments. Same pillow unit as section 1.
LITHOLOGY: sparsely plagioclase-pyroxene phyric basalt, with rare olivine (0-1%).

TEXTURE: Porphyritic with aphanitic, microcrystalline groundmass. Phenocrysts = 3-10%.

PRIMARY MINERALOGY: Plag=Px>>rare Ol

DESCRIPTION: Sheet flow. No contacts preserved.

Hole 391-U1575A-33R Section 3, Top of Section: 266.69 m (CSF-A)

TiO2 (ppm) 18000 16000 14000 12000

Visual core descriptions

Site U1575

391-U1575A-33R-3-A, 0-77 cm

LITHOLOGY: sparsely plagioclase-pyroxene phyric basal with rare olivine (0-1%).

PRIMARY MINERALOGY: Plag=Px>>rare Ol

DESCRIPTION: Sheet flow. No contacts preserved.
**UNIT: 5**

**LITHOLOGY:** sparsely plagioclase-pyroxene phyric basalt, with rare olivine (0-1%).

**TEXTURE:** Porphyritic with aphanitic, microcrystalline groundmass. Phenocrysts = 3-10%.

**PRIMARY MINERALOGY:** Plag=Px>>rare Ol

**DESCRIPTION:** Pillow lava flow. 20-30 cm diameter pillows. (apparent)

<table>
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<tr>
<th>Depth (m)</th>
<th>Core length (cm)</th>
<th>Depth (m)</th>
<th>Core length (cm)</th>
<th>Depth (m)</th>
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**TiO₂ (ppm):**
- 18000
- 16000
- 14000
- 12000
- 10000
- 8000
- 6000
- 4000
- 2000
- 0

**Magnetic susceptibility (IU):**
- 240
- 140
- 40
- 0

**Natural gamma radiation (cps):**
- 15
- 10
- 5
- 0

**Phenocrysts abundance (%):**
- OL, Plag, Px
- 25%
- 20%
- 15%
- 10%
- 5%
- 0%

**Veins alteration intensity:**
- 12
- 10
- 8
- 6
- 4
- 2
- 0

**Reflectance L*:**
- 32.0
- 12.0
- 12.0
- 12.0
- 12.0
- 12.0
- 12.0
- 12.0
- 12.0
- 12.0

**SITE U1575**

**391-U1575A-34R-1-A, 0-134 cm**

**UNIT 3**

**LITHOLOGY:** sparsely plagioclase-pyroxene phyric basalt, with rare olivine (0-1%).

**TEXTURE:** Porphyritic with aphanitic, microcrystalline groundmass. Phenocrysts = 3-10%.

**PRIMARY MINERALOGY:** Plag=Px>>rare Ol

**DESCRIPTION:** Pillow lava flow. 20-30 cm diameter pillows. (apparent)
**Hole 391-U1575A-34R Section 2, Top of Section: 270.24 m (CSF-A)**

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Core length (cm)</th>
<th>Piece number</th>
<th>Core core</th>
<th>Orientation</th>
<th>Lithology</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>270.24</td>
<td>10</td>
<td>1</td>
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<td>0</td>
<td>Unit 5</td>
<td>sparsely plagioclase-pyroxene phyric basalt, with rare olivine (0-1%)</td>
</tr>
<tr>
<td>270.34</td>
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<td>0</td>
<td>0</td>
<td>Unit 5</td>
<td>sparsely plagioclase-pyroxene phyric basalt, with rare olivine (0-1%)</td>
</tr>
</tbody>
</table>

**Visual core descriptions**

**Oxidation**

**Redox**

**Magnetic susceptibility** (IU)

**Natural gamma radiation** (cps)

**Reflectance**

**Lithology**

**Phenocrysts**

**Primary mineralogy**

**Veins**

**Alteration intensity**

**TiO2 (ppm)**

**Site U1575**

**Core image**

**Shipboard samples**

**Core length (cm)**

**Depth (m)**

**Site U1575**

**Visual core descriptions**

**Description**: Pillow lava flow. 20-30 cm diameter pillows. (apparent)
Hole 391-U1575A-35R Section 1, Top of Section: 273.9 m (CSF-A)

UNIT: 5
LITHOLOGY: sparsely plagioclase-pyroxene phyric basalt, with rare olivine (0-1%).
TEXTURE: Porphyritic with aphanitic, microcrystalline groundmass. Phenocrysts = 3-10%.
PRIMARY MINERALOGY: Plag=Px>>rare Ol
DESCRIPTION: Pillow lava flow. 20-30 cm diameter pillows. (apparent)

UNIT: S2
LITHOLOGY: Calcareous rock (chalk)
TEXTURE: Physics
PRIMARY MINERALOGY: Physics
DESCRIPTION: Sedimentary interbed within pillow lavas.
Hole 391-U1575A-35R Section 2, Top of Section: 275.36 m (CSF-A)

**Lithology:** Sparsely plagioclase-pyroxene phyric basalt, with rare olivine (0-1%).

**Texture:** Porphyritic with aphanitic, microcrystalline groundmass. Phenocrysts = 3-10%

**Primary Mineralogy:** Plag=Px>>rare Ol

**Description:** Pillow lava flow. 20-30 cm diameter pillows. (apparent)

---

**Lithology:** Highly plagioclase-pyroxene phyric basalt, with rare olivine (0-1%).

**Texture:** Glomeroporphyritic with fine-grained to microcrystalline, equigranular groundmass. Phenocrysts = 6-14%

**Primary Mineralogy:** Plag>Px; rare Ol

**Description:** Massive sheet flow. Glass selvage at upper contact; looks like pillow margin but grades into massive interior that continues in lower sections. "Lobate flow" - possibly "mega-pillow".

---

**Visual Core Descriptions**
<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Core number</th>
<th>Orientation</th>
<th>Core Length (cm)</th>
<th>Visual core descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>277.66</td>
<td>0-132 cm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**LITHOLOGY:** Highly plagioclase-pyroxene phyric basalt, with rare olivine (0-1%).

**TEXTURE:** Glomeroporphyritic with fine-grained to microcrystalline, equigranular groundmass.

**Phenocrysts:**
- **OL:** 6-14%
- **Plag:** Plagioclase
- **Px:** Pyroxene

**Primary Mineralogy:** Plag>Px; rare Ol

**Description:** Massive sheet flow. Continued from section 2.
Hole 391-U1575A-35R Section 4, Top of Section: 277.98 m (CSF-A)

LITHOLOGY: Highly plagioclase-pyroxene phyric basalt, with rare olivine (0-1%).

TEXTURE: Glomeroporphyritic with fine-grained to microcrystalline, equigranular groundmass. Phenocrysts = 6-14%.

PRIMARY MINERALOGY: Plag > Px; rare Ol

DESCRIPTION: Massive sheet flow. Continued from section 3.
391-U1575A-35R-5-A, 0-43 cm
UNIT: 6
LITHOLOGY: sparsely plagioclase-pyroxene phyric basalt, with rare olivine (0-1%).
TEXTURE: Glomeroporphyritic with fine-grained to microcrystalline, equigranular groundmass. Phenocrysts = 6-14%.
PRIMARY MINERALOGY: Plag>Px; rare Ol
DESCRIPTION: Sparsely porphyritic aphanitic massive basalt flow basalt with a chilled base.

391-U1575A-35R-5-A, 43-147 cm
UNIT: 7
LITHOLOGY: sparsely to moderately plagioclase-pyroxene phyric basalt pillow lava flow, with rare olivine (0-1%).
TEXTURE: Glomeroporphyritic to porphyritic with fine-grained to microcrystalline, equigranular groundmass. Phenocrysts = 4-12%.
PHENOCRYST: PLAG/Px, rare Ol
DESCRIPTION: Pillow basalt with upper glassy rind that grades into altered sparsely to moderately-phyric massive basalt flow basalt with a chilled base.
### Visual Core Descriptions

<table>
<thead>
<tr>
<th>Sample</th>
<th>Depth (m)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>391-U1575A-36R-1-A, 0-7.5 cm</td>
<td></td>
<td>Pillow lava flow, continued from U1575A section 4.</td>
</tr>
<tr>
<td>391-U1575A-36R-1-A, 7.5-139 cm</td>
<td></td>
<td>Massive Sheet flow, discolored near top, fresh towards interior. Glassy upper contact.</td>
</tr>
</tbody>
</table>

**Lithology:**
- **sparsely plagioclase-pyroxene phyric basalt, with rare olivine**
- **moderately plagioclase-pyroxene phyric basalt, with rare olivine.**

**Texture:**
- Glomeroporphyritic to porphyritic with fine-grained to microcrystalline, equigranular groundmass. Phenocrysts = 4-12%.
- Phenocrysts = 4-10%.

**Primary Mineralogy:**
- Plag > Px; rare Ol
- Plag >> Px; rare Ol

**Description:**
- Pillow lava flow, continued from U1575A section 4.
- Massive Sheet flow, discolored near top, fresh towards interior. Glassy upper contact.
LITHOLOGY: moderately plagioclase-pyroxene phryric basalt, with rare olivine.

TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 4-10%.

PRIMARY MINERALOGY: Plag>>Px; rare Ol

DESCRIPTION: Massive Sheet flow, discolored near top, fresh towards interior

ICP
PMAG

<table>
<thead>
<tr>
<th>Piece number</th>
<th>Core length (cm)</th>
<th>Orientation</th>
<th>Shipboard samples</th>
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<td></td>
<td></td>
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<th>Depth (m)</th>
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<table>
<thead>
<tr>
<th>TiO2 (ppm)</th>
<th>Site U1575</th>
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<td>Site U1575</td>
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Visual core descriptions
**Hole 391-U1575A-36R Section 3, Top of Section: 286.54 m (CSF-A)**

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<th>Igneous lith. unit</th>
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<th>Core description</th>
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<tbody>
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<td>287.90</td>
<td>19</td>
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<td></td>
<td>140</td>
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</tbody>
</table>

**Lithology:** Moderately plagioclase-pyroxene phryic basalt, with rare olivine.

**Texture:** Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 4-10%.

**Description:** Massive Sheet flow, discolored near top, fresh towards interior.
391-U1575A-36R-4-A, 0-121 cm

UNIT: 8
LITHOLOGY: moderately plagioclase-pyroxene
phyric basalt, with rare olivine.
TEXTURE: Glomeroporphyritic with fine-grained,
equigranular groundmass. Phenocrysts = 4-10%.

PRIMARY MINERALOGY: Plag>>Px; rare Ol

DESCRIPTION: Massive Sheet flow, discolored near
top, fresh towards interior

MAD
ICP
TSB

8
1
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19

Site U1575

Visual core descriptions
UNIT: 8
LITHOLOGY: moderately plagioclase-pyroxene phyric basalt, with rare olivine.
TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 4-10%
PRIMARY MINERALOGY: Plag>>Px; rare Ol
DESCRIPTION: Massive sheet flow with fresh minerals and groundmass.
LITHOLOGY: moderately plagioclase-pyroxene phyric basalt, with rare olivine.

TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 4-10%.

PRIMARY MINERALOGY: Plag>>Px; rare Ol

DESCRIPTION: Massive sheet flow with fresh minerals and groundmass.

391-U1575A-37R-2-A, 0-147 cm

UNIT: 8

LITHOLOGY: moderately plagioclase-pyroxene phyric basalt, with rare olivine.

TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 4-10%.

DESCRIPTION: Massive sheet flow with fresh minerals and groundmass.
391-U1575A-37R Section 3, Top of Section: 296.28 m (CSF-A)

UNIT: 8
LITHOLOGY: moderately plagioclase-pyroxene phyric basalt, with rare olivine.

TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 4-10%.

PRIMARY MINERALOGY: Plag>>Px; rare Ol

DESCRIPTION: Massive sheet flow with fresh minerals and groundmass.

TiO2 (ppm)

<table>
<thead>
<tr>
<th>Piece number</th>
<th>Core length (cm)</th>
<th>Depth (m)</th>
<th>TiO2 (ppm)</th>
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ICP-MAD

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<tr>
<th>Description</th>
<th>Reflectance</th>
<th>Magnetic susceptibility</th>
<th>Natural gamma radiation</th>
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<tbody>
<tr>
<td></td>
<td>L*: a*: g*</td>
<td>WRMSL (IU)</td>
<td>(cps)</td>
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<td></td>
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Phenocrysts

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</table>

Veins

Alteration intensity

Lithology

Core image

Shipboard samples

Orientation

Igneous lith. unit

Piece number

Core length (cm)

Depth (m)
UNIT: 8
LITHOLOGY: moderately plagioclase-pyroxene phyric basalt, with rare olivine.
TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 4-10%.
PRIMARY MINERALOGY: Plag>>Px; rare Ol
DESCRIPTION: Massive sheet flow with fresh minerals and groundmass.
### Visual core descriptions

**Hole 391-U1575A-38R Section 1, Top of Section: 297.4 m (CSF-A)**

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Core length (cm)</th>
<th>Core number</th>
<th>Orientation</th>
<th>Phenoocysts ( \text{Qtz, Plag, Pxn} )</th>
<th>TiO(_2) (ppm)</th>
<th>Natural gamma radiation (cps)</th>
<th>Magnetic susceptibility ( \text{L}^2 )</th>
<th>Reflectance ( L^* a^* b^* )</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

391-U1575A-38R-1-A, 0-128 cm

**UNIT 3**

**LITHOLOGY:** moderately plagioclase-pyroxene plagioblastic, with rare olivine. Medium-grained, equigranular groundmass. Phenoecysts 4-10%.

**PRIMARY MINERALOGY:** Plag=95%, new Cpx.

**DESCRIPTION:** Massive sheet flow with fresh minerals and groundmass. Olivine varies from 0-0.5% to not observed.

---
Hole 391-U1575A-38R Section 2, Top of Section: 298.68 m (CSF-A)

LITHOLOGY: moderately plagioclase-pyroxene phyric basalt, with rare olivine.

TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 4-10%.

DESCRIPTION: Massive sheet flow with fresh minerals and groundmass. Olivine varies from 0.5% to not observed.
391-U1575A-38R Section 3, Top of Section: 300.0 m (CSF-A)

LITHOLOGY: moderately plagioclase-pyroxene
phyric basalt, with rare olivine.

TEXTURE: Glomeroporphyritic with fine-grained,
equigranular groundmass. Phenocrysts = 4-10%.

PRIMARY MINERALOGY: Plag>>Px; rare Ol

DESCRIPTION: Massive sheet flow with fresh
minerals and groundmass. Olivine varies from 0.5%
to not observed.
Hole 391-U1575A-38R Section 4, Top of Section: 301.5 m (CSF-A)

- **LITHOLOGY**: moderately plagioclase-pyroxene
  - phryic basalt, with rare olivine.
- **TEXTURE**: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 4-10%.
- **PRIMARY MINERALOGY**: Plag>>Px; rare Ol
- **DESCRIPTION**: Massive sheet flow with fresh minerals and groundmass. Olivine varies from 0.5% to not observed.

### Visual core descriptions

- **Core length (cm)**
- **Core number**
- **Depth (m)**
- **Lithology**
- **Core image**

- **Phenocrysts**
  - OL, PLAG, PXN abundance (%)
- **TiO2 (ppm)**
- **Natural gamma radiation (cps)**
- **Magnetic susceptibility (L)**

- **Reflectance**
  - L^2 ± a^2

- **Site U1575**
- **Visual core descriptions**

---

391-U1575A-38R-4-A, 0-52 cm

LITHOLOGY: moderately plagioclase-pyroxene

TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 4-10%.

PRIMARY MINERALOGY: Plag>>Px; rare Ol

DESCRIPTION: Massive sheet flow with fresh minerals and groundmass. Olivine varies from 0.5% to not observed.
Hole 391-U1575A-39R Section 1, Top of Section: 303.1 m (CSF-A)

- Lithology: Moderately plagioclase-pyroxene phryic basalt, with rare olivine.
- Texture: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 4-10%.
- Primary mineralogy: Plag >> Px; rare Ol
- Description: Massive sheet flow with fresh minerals and groundmass. Olivine varies from 0.5% to not observed.

391-U1575A-39R-1-A, 0-137 cm

LITHOLOGY: moderately plagioclase-pyroxene phryic basalt, with rare olivine.
TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 4-10%.
PRIMARY MINERALOGY: Plag>>Px, rare Ol
DESCRIPTION: Massive sheet flow with fresh minerals and groundmass. Olivine varies from 0.5% to not observed.
391-U1575A-39R-2-A, 0-38.5 cm
UNIT: 8
LITHOLOGY: moderately plagioclase-pyroxene phyric basalt, with rare olivine.
TEXTURE: Glomeroporphyritic with fine-grained, equigranular groundmass. Phenocrysts = 4-10%.
PRIMARY MINERALOGY: Plag>>Px; rare Ol
DESCRIPTION: Massive sheet flow with fresh minerals and groundmass. Olivine varies from 0.5% to not observed.

391-U1575A-39R-2-A, 38.5-142 cm
UNIT: 9
LITHOLOGY: moderately plagioclase-pyroxene-olivine phyric
TEXTURE: Glomeroporphyritic to porphyritic with fine-grained to microcrystalline, equigranular groundmass. Phenocrysts = 0-7%.
PRIMARY MINERALOGY: Plag>Px=Ol
DESCRIPTION: Pillow lava flow, with intermixed calcareous sediment. Interpreted to represent pillows erupted into and mixed with pelagic ooze.
Hole 391-U1575A-39R Section 3, Top of Section: 305.89 m (CSF-A-A)

- **391-U1575A-39R-3-A, 0-107 cm**
  - **UNIT:** 9
  - **LITHOLOGY:** moderately plagioclase-pyroxene-olivine phyric basalt
  - **TEXTURE:** Glomeroporphyritic to porphyritic with fine-grained to microcrystalline, equigranular groundmass. Phenocrysts = 0-7%.
  - **PRIMARY MINERALOGY:** Plag>Px=Ol
  - **DESCRIPTION:** Pillow lava flow, with intermixed calcareous sediment. One composite piece shows basalt glass fused to the sediment. Interpreted to represent pillows erupted into and mixed with pelagic ooze.

- **391-U1575A-39R-3-A, 107-122 cm**
  - **UNIT:** S3
  - **LITHOLOGY:** Calcareous sediment (lithified)
  - **TEXTURE:**
  - **PRIMARY MINERALOGY:**
  - **DESCRIPTION:** Calcareous sediment layer with laminar stratification.

- **391-U1575A-39R-3-A, 122-132 cm**
  - **UNIT:** 10a
  - **LITHOLOGY:** moderately plagioclase-pyroxene-olivine phyric basalt
  - **TEXTURE:** Porphyritic to microporphyritic with fine-grained to microcrystalline, equigranular groundmass. Phenocrysts = 6-10%.
  - **PRIMARY MINERALOGY:** Plag>Px=Ol
  - **DESCRIPTION:** Massive lava flow; top of massive flow that continues into section 4 below.
Hole 391-U1575A-39R Section 4, Top of Section: 307.21 m (CSF-A)

UNIT: 10a
LITHOLOGY: moderately plagioclase-pyroxene-olivine phyric basalt

TEXTURE: Porphyritic to microporphyritic with fine-grained to microcrystalline, equigranular groundmass. Phenocrysts = 6-10%.

PRIMARY MINERALOGY: Plag>Px=Ol

DESCRIPTION: Massive lava flow; core of massive flow that continues into section 5 below.
Hole 391-U1575A-39R Section 5, Top of Section: 308.51 m (CSF-A)

**LITHOLOGY:** moderately plagioclase-pyroxene-olivine phyric basalt

**TEXTURE:** Porphyritic to microporphyritic with fine-grained to microcrystalline, equigranular groundmass. Phenocrysts = 6-10%.

**PRIMARY MINERALOGY:** Plag>Px=Ol

**DESCRIPTION:** Massive lava flow; core of massive flow that continues into section 6 below.

**Visual core descriptions**

- phenocrysts: OL, PLAG, PXN
- veins: Altered matrix
- TiO2 (ppm): 18000, 16000, 14000, 12000
- Magnetic susceptibility (μT): 2000, 1000, 0
- Natural gamma radiation (cps): 15, 10, 5, 0

**Igneous lith. unit**

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**Site U1575**

- Site U1575
- Visual core descriptions
- 308.51 m (CSF-A)

**DESCRIPTION:** Massive lava flow; core of massive flow that continues into section 6 below.
**Lithology:** Moderately plagioclase-pyroxene-olivine phyric basalt

**Texture:** Porphyritic to microporphyritic with fine-grained to microcrystalline, equigranular groundmass. Phenocrysts = 6-10%.

**Primary Mineralogy:** Plag>Px=Ol

**Description:** Massive lava flow; core of massive flow that continues into section 7 below.

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**Visual Core Descriptions**

- **Phenocrysts:** OL, PLAG, PXN abundance (%)
  - 25
  - 20
  - 15
  - 10
  - 5
  - 0

- **Veins:**
  - Alteration intensity:

- **Lithology:** Core image

- **Shipboard samples**
  - Orientation
  - **Igneous lith. unit**
  - **Igneous lith. unit**
  - **Igneous lith. unit**

- **Piece number**

- **Core length (cm)**

- **Depth (m)**

**Hole 391-U1575A-39R Section 6, Top of Section: 309.92 m (CSF-A)**

**Visual core descriptions**

**SITE U1575**

**Visual Core Descriptions**

- **Phenocrysts:** OL, PLAG, PXN abundance (%)
  - 25
  - 20
  - 15
  - 10
  - 5
  - 0

- **Veins:**
  - Alteration intensity:

- **Lithology:** Core image

- **Shipboard samples**
  - Orientation
  - **Igneous lith. unit**
  - **Igneous lith. unit**
  - **Igneous lith. unit**

- **Piece number**

- **Core length (cm)**

- **Depth (m)**

**Hole 391-U1575A-39R Section 6, Top of Section: 309.92 m (CSF-A)**

**Visual core descriptions**

**SITE U1575**

**Visual Core Descriptions**

- **Phenocrysts:** OL, PLAG, PXN abundance (%)
  - 25
  - 20
  - 15
  - 10
  - 5
  - 0

- **Veins:**
  - Alteration intensity:

- **Lithology:** Core image

- **Shipboard samples**
  - Orientation
  - **Igneous lith. unit**
  - **Igneous lith. unit**
  - **Igneous lith. unit**

- **Piece number**

- **Core length (cm)**

- **Depth (m)**

**Hole 391-U1575A-39R Section 6, Top of Section: 309.92 m (CSF-A)**

**Visual core descriptions**

**SITE U1575**

**Visual Core Descriptions**

- **Phenocrysts:** OL, PLAG, PXN abundance (%)
  - 25
  - 20
  - 15
  - 10
  - 5
  - 0

- **Veins:**
  - Alteration intensity:

- **Lithology:** Core image

- **Shipboard samples**
  - Orientation
  - **Igneous lith. unit**
  - **Igneous lith. unit**
  - **Igneous lith. unit**

- **Piece number**

- **Core length (cm)**

- **Depth (m)**

**Hole 391-U1575A-39R Section 6, Top of Section: 309.92 m (CSF-A)**

**Visual core descriptions**

**SITE U1575**

**Visual Core Descriptions**

- **Phenocrysts:** OL, PLAG, PXN abundance (%)
  - 25
  - 20
  - 15
  - 10
  - 5
  - 0

- **Veins:**
  - Alteration intensity:

- **Lithology:** Core image

- **Shipboard samples**
  - Orientation
  - **Igneous lith. unit**
  - **Igneous lith. unit**
  - **Igneous lith. unit**

- **Piece number**

- **Core length (cm)**

- **Depth (m)**

**Hole 391-U1575A-39R Section 6, Top of Section: 309.92 m (CSF-A)**

**Visual core descriptions**

**SITE U1575**

**Visual Core Descriptions**

- **Phenocrysts:** OL, PLAG, PXN abundance (%)
  - 25
  - 20
  - 15
  - 10
  - 5
  - 0

- **Veins:**
  - Alteration intensity:

- **Lithology:** Core image

- **Shipboard samples**
  - Orientation
  - **Igneous lith. unit**
  - **Igneous lith. unit**
  - **Igneous lith. unit**

- **Piece number**

- **Core length (cm)**

- **Depth (m)**

**Hole 391-U1575A-39R Section 6, Top of Section: 309.92 m (CSF-A)**

**Visual core descriptions**

**SITE U1575**

**Visual Core Descriptions**

- **Phenocrysts:** OL, PLAG, PXN abundance (%)
  - 25
  - 20
  - 15
  - 10
  - 5
  - 0

- **Veins:**
  - Alteration intensity:

- **Lithology:** Core image

- **Shipboard samples**
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  - **Igneous lith. unit**
  - **Igneous lith. unit**

- **Piece number**

- **Core length (cm)**

- **Depth (m)**

**Hole 391-U1575A-39R Section 6, Top of Section: 309.92 m (CSF-A)**

**Visual core descriptions**

**SITE U1575**

**Visual Core Descriptions**

- **Phenocrysts:** OL, PLAG, PXN abundance (%)
  - 25
  - 20
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  - 10
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- **Veins:**
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- **Lithology:** Core image

- **Shipboard samples**
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- **Piece number**

- **Core length (cm)**

- **Depth (m)**

**Hole 391-U1575A-39R Section 6, Top of Section: 309.92 m (CSF-A)**

**Visual core descriptions**

**SITE U1575**

**Visual Core Descriptions**

- **Phenocrysts:** OL, PLAG, PXN abundance (%)
  - 25
  - 20
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  - 10
  - 5
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- **Veins:**
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- **Lithology:** Core image

- **Shipboard samples**
  - Orientation
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  - **Igneous lith. unit**
  - **Igneous lith. unit**

- **Piece number**

- **Core length (cm)**

- **Depth (m)**

**Hole 391-U1575A-39R Section 6, Top of Section: 309.92 m (CSF-A)**

**Visual core descriptions**

**SITE U1575**

**Visual Core Descriptions**

- **Phenocrysts:** OL, PLAG, PXN abundance (%)
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  - 10
  - 5
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- **Veins:**
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Hole 391-U1575A-39R Section 7, Top of Section: 311.12 m (CSF-A)

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391-U1575A-39R-7-A, 0-104.5 cm
UNIT: 10a
LITHOLOGY: moderately plagioclase-pyroxene-olivine phyric basalt
TEXTURE: Porphyritic to microporphyritic with fine-grained to microcrystalline groundmass. Phenocrysts = 6-10%
PRIMARY MINERALOGY: Plag>Px=Ol
DESCRIPTION: Massive lava flow that extends into Sections 3-6 above.

391-U1575A-39R-7-A, 104.5-124 cm
UNIT: 10b
LITHOLOGY: moderately plagioclase-pyroxene-olivine phyric basalt
TEXTURE: Porphyritic to microporphyritic with fine-grained to microcrystalline groundmass. Phenocrysts = 5-10%
PRIMARY MINERALOGY: Plag>Px=Ol
DESCRIPTION: Massive lava flow.
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**Visual core descriptions**

Hole 391-U1575A-40R Section 1, Top of Section: 312.9 m (CSF-A)

- **LITHOLOGY**: Sparsely plagioclase-pyroxene-olivine phryic basalt
- **TEXTURE**: Porphyritic to microporphyritic with fine-grained to microcrystalline, equigranular groundmass. Phenocrysts = 5-10%.
- **PRIMARY MINERALOGY**: Plag=Px=Ol
- **DESCRIPTION**: Massive lava flow. Weathered to pinkish-tan color.
**LITHOLOGY:** moderately plagioclase-pyroxene-olivine phyric basalt

**TEXTURE:** Porphyritic to microporphyritic with fine-grained to microcrystalline, equigranular groundmass. Phenocrysts = 5-10%.

**PRIMARY MINERALOGY:** Plag>Px=Ol

**DESCRIPTION:** Massive lava flow. Weathered to pinkish-tan color.

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SITE U1575

HOLE 391-U1575A-41R SECTION 2, TOP OF SECTION: 324.05 m (CSF-A)

UNIT: 10b

LITHOLOGY: Moderately plagioclase-pyroxene-olivine phyric basalt

TEXTURE: Porphyritic to microporphyritic with fine-grained to microcrystalline, equigranular groundmass. Phenocrysts = 5-10%.

PRIMARY MINERALOGY: Plag > Px = Ol

DESCRIPTION: Massive lava flow. Weathered to pinkish-tan color.

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**Visual core descriptions**

Site U1575

**LITHOLOGY**: Moderately plagioclase-pyroxene-olivine phyric basalt

**TEXTURE**: Porphyritic to microporphyritic with fine-grained to microcrystalline, equigranular groundmass. Phenocrysts = 5-10%.

**PRIMARY MINERALOGY**: Plagioclase > Pyroxene = Olivine

**DESCRIPTION**: Massive lava flow. Weathered to pinkish-tan color.