### SITE 949 HOLE A CORE 1H

<table>
<thead>
<tr>
<th>Meter</th>
<th>Graphic Lith.</th>
<th>Section</th>
<th>Age</th>
<th>Structure</th>
<th>Disturb</th>
<th>Sample</th>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>1H</td>
<td>6/2</td>
<td>clay</td>
<td>0.5</td>
<td>P</td>
<td>10YR 6/2</td>
<td>CLAY WITH NANNOFOSSILS</td>
</tr>
</tbody>
</table>

- **Major Lithology:**
  - Light brownish gray (8YR 6/2-10YR 6/2) clay with nannofossils and clay with nannofossils and foraminifers.
  - Intervals slightly lighter in color contain more foraminifers.

- **Minor Lithology:**
  - Disrupted, light gray (10YR 6/1) volcanic ash layers in Section 1, 30-43 and 72-80 cm; and CC, 4-6 cm.

- **Whole Round Sampling:**
  - IW: Section 1, 143-150 cm.

### SITE 949 HOLE B CORE 1X

<table>
<thead>
<tr>
<th>Meter</th>
<th>Graphic Lith.</th>
<th>Section</th>
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<tbody>
<tr>
<td>1</td>
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<td>1X</td>
<td>6/2</td>
<td>clay</td>
<td>0.5</td>
<td>P</td>
<td>10YR 6/2</td>
<td>CLAYSTONE WITH NANNOFOSSILS</td>
</tr>
</tbody>
</table>

- **Major Lithology:**
  - Light olive gray (5Y 6/1-10Y 6/1), bioturbated, mottled, claystone with nannofossils. Poorly consolidated.
  - Moderately disturbed by drilling, with 4-5 cm "biscuits."

- **Structural Features:**
  - True bedding inclination is 19-33 degrees.

- **Whole Round Sampling:**
  - IW: Section 1, 120-150 cm.
SITE 949 HOLE B CORE 2X
CORED 253.8 - 263.5 mbsf

CLAYSTONE WITH NANNOFOSILS and CLAYSTONE

Major Lithologies:
Section 1 - Section 2, 10 cm: Gray to light olive gray (5Y 6/1-10Y 6/1), bioturbated, mottled claystone with nannofossils. Section 2, 10 cm-CC: Gray to light olive gray (5Y 6/1-10Y 6/1) and light brownish gray (10YR 6/1), bioturbated, mottled claystone. Zoophycos at Section 2, 107 cm. Dark olive green mud chips occur in Sections 5-7. Moderately deformed, with 2-5 cm "biscuits."

Structural Features:
Section 3, 129 cm to Section 5, 15 cm and Section 6, 48-61 cm exhibit millimeter- to decimeter-scale zones of intense scaly fabric. True dip of zones is 22-62 degrees; they show reverse sense of displacement. In Section 4, zones alternate with fracture networks and intact intervals. Light brownish gray color occurs mainly in or close to deformed intervals. True bedding inclination is 12-41 degrees.

Whole Round Sampling:
AM: Section 1, 28-42 and 60-74 cm.
WB: Section 2, 72-88 cm.
MK: Section 3, 0-40 cm.
IW: Section 5, 110-150 cm.
GZ: Section 6, 11-26 cm.
CLAYSTONE

Major Lithology:
Light olive gray (5Y 6/1-10Y 6/1) to light brownish gray (2.5Y 6/1), bioturbated, mottled claystone.

Abundant Zoophycos in Section 5, 58-102 cm. Bioturbation is generally slight, but moderate to strong locally.

Dark gray to dark green mud clasts in Section 1, 31-33 cm; Section 3, 1-9 cm; Section 4, 0-150 cm; and Section 6, 0-72 cm. Section 1, 43-85 contains bioturbated and dispersed ash.

Structural Features:
Few minor faults with normal or not determinable sense of displacement.
Several intervals of fracture networks.
Local millimeter-scale zone of scaly fabric. True bedding inclination is 34-60 degrees.

Whole Round Sampling:
AF: Section 2, 87-101 cm.
HT: Section 4, 16-32 cm.
IW: Section 5, 110-150 cm.
**DESCRIPTION**

**CLAYSTONE**

Major Lithology:
Light olive gray (5Y 6/1–10Y 6/1), bioturbated claystone. Moderately deformed, with 2–4 cm "biscuits."

Structural Features:
Green and pink veins, 0.5–1.0 cm thick, in Section 1, 86–96 cm; patches or fragments of same vein material in Section 1, 40–42 cm and CC, 14–20 cm. Vein in Section 1, 40–42 cm is mixture of phillipsite and smectite. True bedding dip is 68 degrees.

Whole Round Sampling:
IW: Section 1, 125–150 cm.
**SITE 949 HOLE B CORE 5X**

**CORED 282.8 - 292.4 mbsf**

<table>
<thead>
<tr>
<th>Bedding Up</th>
<th>Scaly Fabric</th>
<th>Deformation</th>
<th>Lith.</th>
<th>Sample</th>
<th>Color</th>
<th>Description</th>
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<td>CLAYSTONE</td>
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<td>Major Lithology: Light olive gray (5Y 6/1), bioturbated, mottled claystone, with patches of light brownish gray (2.5Y 6/1) claystone in Section 1, 50-70 cm; Section 3, 62-72 cm; Section 5, 60-70 and 129-136 cm; and Section 6, 32-46 cm. Thin patches of greenish gray claystone in Section 3, 60-68 and 106-108 cm; and Section 7, 38-43 cm. Darker mottled zones are slightly coarser grained, and contain more altered volcanic material than background sediment. Scattered mud clasts occur in Sections 3 and 6-CC. Chondrites occur in Section 5 at 63-64 and 76-77 cm. Generally moderately deformed by drilling, with 1-6 cm &quot;biscuits.&quot;</td>
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<td>Structural Features: Subhorizontal, 1-cm-thick phillipsite vein in Section 2, 3-6 cm. &lt;1-mm-thick rhodochrosite veins, most with steep true dips, in Section 2, 26-32 cm; Section 3, 82-93 and 127-131 cm; Section 4, 68-77 and 95-102 cm; Section 5, 73-80 cm; Section 6, 144-150 cm; CC, 3-13 cm. These veins occur in fractured intervals; some have acted as normal faults with centimeter-scale offsets. Sediment-filled vein structures with steep apparent dips also common. Low-dip, centimeter- to decimeter-scale zones of intense scaly fabric in Section 4, 55-65 cm and Section 5, 61-65 cm. True bedding inclination 0-23 degrees.</td>
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<td>Whole Round Sampling: WB: Section 1, 94-110 cm. MK: Section 2, 110-150 cm. JA: Section 4, 43-56 cm. IW: Section 4, 110-150 cm. GZ: Section 6, 78-94 cm. HT: Section 6, 114-130 cm.</td>
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<td>Meter</td>
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<td>Section</td>
<td>Age</td>
<td>Structure</td>
<td>Diagen.</td>
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</table>
CLAYSTONE WITH NANNOFOSILS

Major Lithology:
Light brownish gray (2.5Y 6/1-2.5Y 6/2-10YR 6/2), bioturbated, mottled claystone with nannofossils. Scattered mud chips in Sections 3, 6, and 7. Zoophycos occurs in Section 5, 12-16 cm and Section 6, 100-110 cm; Chondrites in Section 4, 149-150 cm. Moderately deformed by drilling, with 2-5 cm "biscuits."

Minor Lithology:
Dark gray to black volcanic ash layers in Section 1, 125-140 cm and Section 2, 58-67 cm. Layers have sharp bases and are surrounded by greenish-gray zones. Base of black ash in Section 2 is laminated. Greenish gray (5GY 6/1) dispersed ash in Section 5, 40-60 cm.

Structural Features:
Several normal and reverse faults, fractured intervals, and isolated, moderately dipping, millimeter- to centimeter-scale zones of intense scaly fabric. True bedding inclination is 7-34 degrees.

Whole Round Sampling:
IW: Section 2, 110-150 cm; Section 6, 110-150 cm.
PH: Section 3, 14-25 cm.
JA: Section 4, 42-55 cm.
HT: Section 4, 119-135 cm.
GZ: Section 5, 118-134 cm.
WB: Section 6, 62-77 cm.

949B 8X THROUGH 12X NO RECOVERY
### Major Lithologies:

**Section 1:** Light olive gray (10Y 6/1), bioturbated, mottled claystone with nannofossils.  
**Section 2-CC:** Light olive gray (5Y 6/1-10Y 6/1), bioturbated claystone. Zoophycos in Section 2 at 26-28, 43, and 53 cm; *Chondrites* in Section 3, 13 cm. 1.5- to 5-cm-thick olive gray, light brown, and reddish brown color bands in Section 2, 70-97 cm. Generally moderately deformed by drilling, with 2-4 cm "biscuits."

### Structural Features:

Zones of intense scaly fabric in Section 2, 67-137 cm and CC, 27-32 cm; their true dip is 23-38 degrees, show reverse sense of displacement. Scaly zone in Section 2 exhibits color bands. True bedding dip is 3-12 degrees.

### Whole Round Sampling:

**PB:** Section 1, 49-66 cm.  
**IW:** Section 1, 110-150 cm.
**SITE 949 HOLE B CORE 14X**

**CORED 354.9 - 359.9 mbsf**

### Description

**CLAYSTONE**

- Major Lithology: Light olive gray (5Y 6/1-10Y 6/1) to light brownish gray (2.5Y 6/1), mottled claystone. Intact "biscuits" display moderate to intense bioturbation.
- Scattered mud chips in Sections 1-3.
- Core is very deformed by drilling and is probably mostly drilling breccia and slurry, as 5 m were cored and 9.83 m were recovered. 1-2 cm "biscuits."

**Minor Lithology:**

- Greenish gray (2.5GY 6/1) volcanic ash with disrupted laminae in Section 3, 69-75 cm.

- **Structural Features:**
  - Low-dip zones of intense scaly fabric in Section 1, 29-47 and 60-74 cm; and Section 6, 72-74 cm. In Section 1, these zones are separated by fractured interval. Boundaries are cut by steep reverse faults with centimeter-scale offsets.

<table>
<thead>
<tr>
<th>Structure</th>
<th>Sample</th>
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<tr>
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<td>5Y</td>
<td>6/1</td>
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<td>5Y</td>
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<tr>
<td>P</td>
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<td>6/1</td>
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<td>P</td>
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</tbody>
</table>

**Whole Round Sampling:**

- PB: Section 1, 105-121 cm.
- MK: Section 2, 0-40 cm.
- GZ: Section 2, 54-70 cm.
- JA: Section 4, 33-46 cm.
- HT: Section 4, 62-78 cm.
- W: Section 5, 110-150 cm.
**SITE 949 HOLE B CORE 15X**

**CORED 359.9 - 369.5 mbsf**

### Description

**CLAYSTONE**

- **Major Lithology:**
  - Light olive gray (5Y 6/1–10Y 6/1) to gray (2.5Y 6/1), mildly bioturbated, mottled claystone. Small dark gray clasts in Section 2, 7–10 cm
  - Horizontal Zoophycos in Section 3, 52 cm; Section 4, 20–40 cm; and Section 4, 90 cm. Moderately to severely deformed by drilling, with 1–5 cm "biscuits."

- **Minor Lithology:**
  - Irregular darker layer of carbonate-rich silty claystone in Section 6, 67–69 cm.

- **Structural Features:**
  - Sediment-filled veins in Section 3, 139–144 cm and Section 6, 74–78 cm. True bedding dip is 1–16 degrees.

- **Whole Round Sampling:**
  - IW: Section 2, 110–150 cm; Section 5, 110–150 cm.
  - HT: Section 3, 84–100 cm.
  - PB: Section 3, 122–138 cm.
  - GZ: Section 4, 41–57 cm.
  - WB: Section 5, 28–44 cm; Section 6, 119–135 cm.
  - PH: Section 5, 65–76 cm.
  - SP: Section 6, 57–65 cm.
<table>
<thead>
<tr>
<th>Site 949 Hole B Core 16X</th>
<th>Cored 369.5 - 379.1 mbsf</th>
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</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
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<td>CLAYSTONE</td>
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<tr>
<td>Major Lithology:</td>
<td>Two chunks of light olive gray (5Y 6/1) claystone.</td>
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<table>
<thead>
<tr>
<th>Site 949 Hole B Core 17X</th>
<th>Cored 379.1 - 388.8 mbsf</th>
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<tbody>
<tr>
<td><strong>Description</strong></td>
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<td>CLAYSTONE</td>
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<tr>
<td>Major Lithology:</td>
<td>Small chunks of light olive gray (5Y 6/1), bioturbated claystone.</td>
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<tr>
<td>Whole Round Sampling:</td>
<td>IW: CC, 0-6 cm.</td>
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949B 18X NO RECOVERY
**SITE 949 HOLE B CORE 19X**

**CORED 398.8 - 408.1 mbsf**

<table>
<thead>
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<th>Section</th>
<th>Structure</th>
<th>Deformation</th>
<th>Meter</th>
<th>Graphic Lith.</th>
<th>Scaly Fabric</th>
<th>Bedding Dip</th>
<th>Description</th>
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<td>1</td>
<td>W</td>
<td>X</td>
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<td>Major Lithology: Slightly mottled and bioturbated claystone with radiolarians. Pale yellowish brown (10YR 6/2) in Sections 1 through 4, 2.5 cm; greenish gray (2.5GY 6/1) in Section 4, 2.5-21.5 cm; light brownish gray (2.5Y 6/2) in Section 4, 21.5-92. Mottles are either slightly orange or (rarer) greenish gray. Manganese(?!) staining in Section 2 at 20 cm, 51-55, 84, and 100-107 cm. Moderately deformed by drilling, with 1-3 cm “biscuits.”</td>
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<tr>
<td>2</td>
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<td>10YR 6/2</td>
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<td>Structural Features: Two faults in Sections 1 and 2. Low-dip, centimeter- to decimeter-scale zones of moderate to intense scaly fabric in Section 3, 73-80 and 119-150 cm; and Section 4, 0-3 cm, alternating with fracture networks and incipient scaly fabric. Sediment-filled veins in Section 4, 43-52 cm.</td>
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<td>3</td>
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<td>Whole Round Sampling: WB: Section 1, 33-50 cm. HT: Section 2, 32-48 cm. IW: Section 2, 60-100 cm. GZ: Section 3, 34-50 cm. JA: Section 3, 95-106 cm.</td>
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<td>4</td>
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<td>2.5Y 6/2</td>
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**949B 20X NO RECOVERY**

**949B 21X NO RECOVERY**
CLAYSTONE and SILTSTONE

Major Lithologies:
Section 1-Section 3, 52 cm: Light brownish gray (2.5Y6/1), locally mottled and bioturbated claystone, containing scattered large radiolarians and irregular patches of scaly fabric.
Section 3, 52 cm-CC: Two interbedded sediment types: (1) Variegated light brownish gray (2.5Y 6/1), greenish gray (5GY 6/1), and light olive gray (5Y 6/1) mottled claystone. (2) Greenish gray (2.5GY 6/1-5GY 6/1) siltstone, usually with fairly sharp base and slightly mixed top. Some beds appear normally graded and/or have cross-laminae.
Siltstone intervals occur in Section 3, 52-57, 96-99, and 105-107 cm; Section 4, 62-63 and 102-103 cm; Section 5, 61, 64-72, and 102-103 cm; Section 6, 0-4, 100-108, and 135 cm-CC. Siltstone in Section 2, 0-16 cm. Siltstone from sandy at the base to silty at the top. Color changes below Section 3, 52 cm on too fine a scale to be shown accurately on this barrel sheet; see visual core descriptions for more detailed color information.

Structural Features:
Steep normal faults with up to 2.5-cm-thick zones of intense scaly fabric in Sections 1, 111-114 cm; Section 3, 13-20, 58-60, and 111-150 cm; and Section 4, 0-15 cm. Bedding-parallel, millimeter- to decimeter-scale zones of intense scaly fabric and intervals of stratified disruption in Sections 5, 108 cm; and Section 7, 3 and 38-39 cm; and in the Core Catcher. Siltstone in Section 2, 0-16 cm. Siltstone from sandy at the base to silty at the top. Color changes below Section 3, 52 cm on too fine a scale to be shown accurately on this barrel sheet; see visual core descriptions for more detailed color information.

Whole Round Sampling:
WB: Section 1, 103-146 cm.
GZ: Section 2, 0-16 cm.
MK: Section 2, 110-150 cm.
SP: Section 3, 0-13 cm.
HT: Section 4, 38-54 cm.
IW: Section 5, 110-150 cm.
SITE 949 HOLE B CORE 23X
CORED 437.1 - 446.7 mbsf

<table>
<thead>
<tr>
<th>Major Lith.,</th>
<th>Graphic Lith.</th>
<th>Section</th>
<th>Age</th>
<th>Structure</th>
<th>Disturb</th>
<th>Sample</th>
<th>Color</th>
<th>Description</th>
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<td>CLAYSTONE</td>
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<td>Major Lithology: Three chunks of light brownish gray-light olive gray (2.5Y 6/2–5Y 6/2) claystone.</td>
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949B 24X NO RECOVERY
Drilled 456.4–458.4 mbsf

SITE 949 HOLE B CORE 25H
CORED 458.4 - 464.2 mbsf

<table>
<thead>
<tr>
<th>Bedding Dip</th>
<th>Scaly Fabric</th>
<th>Deformation</th>
<th>Meter</th>
<th>Graphic Lith.</th>
<th>Section</th>
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<td>SILTY CLAYSTONE and CLAYEY SILTSTONE</td>
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<td>Major Lithologies: Section 1 through Section 2, 48 cm and Section 2, 75–115 cm: Gray to light olive gray (5Y 6/1–10Y 6/1) to greenish gray (5GY 6/1) silty claystone and clayey siltstone. Fairly sharp color boundaries and local horizontal laminae. Section 2, 115 cm through CC: Greenish gray (5GY 6/1) drilling flow-in. Vertically streaked throughout.</td>
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<td>Minor Lithology: Thin micrite bed, with sharp base, horizontal laminae, and diffuse top, in Section 1, 105–107 cm. Gray (6Y 6/1) nannofossil chalk, with horizontal laminae and sharp base and top, in Section 2, 48–75 cm.</td>
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<td>Structural Features: Two bedding-parallel, millimeter-scale zones of intense scaly fabric. True bedding dip is 1 to 12 degrees.</td>
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<td>Whole Round Sampling: JA: Section 2, 84–93 cm. PH: Section 2, 139–150 cm. AM: Section 3, 27–36 cm; Section 4, 29–40 cm. IW: Section 3, 110–150 cm.</td>
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949C 1R NO RECOVERY
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<td>949C-6R</td>
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<td>Structure</td>
<td>Disturb</td>
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</table>

CLAYSTONE WITH RADIOLARIANS

Major Lithology:
One chunk of light olive gray (5Y 6/2) claystone with radiolarians.

Whole Round Sampling:
IW: CC, 5-10 cm.

CLAYSTONE

Major Lithology:
Light olive gray (5Y 6/2) claystone, with weak greenish gray (5GY 6/1) mottles. Mostly drilling breccia and slurry.

Whole Round Sampling:
IW: Section 1, 0-4 cm.

CLAYSTONE

Major Lithology:
Two chunks of brownish gray (10YR 6/3) and dark olive gray (5Y 6/1) mottled claystone. Drilling breccia.

CLAYSTONE

Major Lithology:
One chunk of gray (5Y 5/1) claystone, with scattered olive green and light brownish mud chips. Drilling breccia.

Whole Round Sampling:
IW: CC, 0-7 cm.
**SITE 949 HOLE C CORE 7R**

**CORED 454.1 - 463.8 mbsf**

Johnny Graphic & Description

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Major Lithology:
Claystone, variegated dark olive green to light greenish gray to reddish dark brown to yellowish brown. Reddish brown intervals contain nannofossils. Color changes on too fine a scale to be illustrated; refer to VCDs for detailed information.

Structural Features:
True bedding dips probably subhorizontal.

Whole Round Sampling:
IW: Section 1, 80-90 cm.