Major lithology: This core contains heavily bioturbated, mottled, pale brown (10YR 6/3) to light yellowish brown (10YR 6/4) NANNOFOSIL OOZE with FORAMINIFERS.

SMEAR SLIDE SUMMARY (%):

<table>
<thead>
<tr>
<th>Texture</th>
<th>14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td>10</td>
</tr>
<tr>
<td>Clay</td>
<td>80</td>
</tr>
<tr>
<td>Nannofossils</td>
<td>85</td>
</tr>
<tr>
<td>Radiolarians</td>
<td>1</td>
</tr>
</tbody>
</table>

**TEXTURE:**
Sand 10
Silt 80
Clay 10

**COMPOSITION:**
Foraminifera: 14
Nannofossils: 85
Radiolarians: 1
NANNOFOSIL OOZE

Major lithology: This core contains NANNOFOSIL OOZE. The first section is heavily bioturbated and is dominantly very pale brown (10YR 7/3) with pale brown (10YR 6/3) mottling. The lower sections are moderately bioturbated. The color varies between pale brown (10YR 6/3) and very pale brown (10YR 7/3) on a 25 cm scale in Section 2, is very brown (10YR 7/3) in Section 3, and is white (10YR 8/2 to 10YR 8/1) to light gray (10YR 7/2) in the lowest part of the core.

SMOAR SLIDE SUMMARY (%):

<table>
<thead>
<tr>
<th>2.29</th>
<th>6.100</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>D</td>
</tr>
</tbody>
</table>

TEXTURE:

| Sand | 1   |
| Silt | 95  |
| Clay | 4   |

COMPOSITION:

| Diatoms | Tr  |
| Foraminifers | 4   |
| Nannofossils | 95  |
| Radiolarians | 1   |
**NANNOFOSIL Ooze with FORAMINIFERS**

Major lithology: This core contains moderately to heavily bioturbated NANNOFOSIL Ooze with FORAMINIFERS. Section 1 through Section 6, 25 cm, have colors grading between white (10YR 8/1, 10YR 8/2 and 2.5Y 8/2) and light gray (10YR 7/2, 5Y 7/1, 5Y 7/2 and 2.5Y 7/2) to light brownish gray (2.5Y 6/2) on a 10 to 50 cm scale. Below Section 6, 25 cm, the color is bluish gray (5B 6/1) grading to light gray (5Y 7/1 and 10YR 7/1) and light greenish gray (5G 5/1). Three diffuse mm size light greenish gray (5G 5/1) color bands are present in Section 7.

**SMEAR SLIDE SUMMARY (%):**

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
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<td>643</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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</tr>
</tbody>
</table>

**TEXTURE:**

- Sand: 10
- Sil: 85
- Clay: 5

**COMPOSITION:**

- Foraminifers: 10
- Nannofossils: 90

---

**Graphical Lithology Description:**

- Core descriptions and lithological characterizations illustrated in a graphical format with color coding for different sediment types and mineral compositions.
**LITHOLOGIC DESCRIPTION**

**NANOFOSIL OOZE**

Major lithology: This core contains NANOFOSIL OOZE. It is moderately to heavily bioturbated and mottled, with a few mm to cm size pyrite nodules. The dominant color is white (10YR 8/1), with minor intervals of light gray (5Y 7/1). Color bands: light blue-gray (5G 3/3), pale yellowish green (10GY 7/2), and medium light gray (5Y 6/6).

**SMEAR SLIDE SUMMARY (%):**

- **TEXTURE:**
  - Sand: 2
  - Silt: 95
  - Clay: 3

- **COMPOSITION:**
  - Foraminifers: 4
  - Nanofossils: 95
  - Pteropods: 1
**SITE 804 HOLE A**  
**CORE 5H**  
**CORED INTERVAL 29.7-39.2 mbsf**

<table>
<thead>
<tr>
<th>SECTION</th>
<th>TIME-ROCK UNIT</th>
<th>FOSSIL, CHARACTER</th>
<th>NANNOCFORAL/Ooze</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
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<td></td>
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<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>5</td>
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</tr>
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</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**LITHOLOGIC DESCRIPTION**

- **NANNOCFORAL/OOZE**
  - **Major lithology:** This core contains NANNOCFORAL/OOZE. Foraminifers locally constitute up to 10% of the sediment. The sediment is moderately to heavily bioturbated and mottled, with isolated mm to cm scale pyrite nodules. The dominant color is light gray (5Y 7/1) and mottles range from 5 mm near the base of Section 3 to 30 cm in Sections 5, 6, and 7, and range in color from gray (2.5Y 5/1) to reddish gray (5R 6/1) to pale yellowish green (10GY 7/2).

**SMEAR SLIDE SUMMARY (%)**

- **Texture:**
  - Sand: 3
  - Sil: 75
  - Clay: 0

- **Composition:**
  - Foraminifers: 1
  - Nannofossils: 75
  - Radiolarians: 3
  - Siliceous fragments: 3
  - Zoophytes: 15
SITE 804 HOLE A  CORE 6H CORED INTERVAL 39.2-48.7 mbsf

LITHOLOGIC DESCRIPTION

NANNOFOSSIL Ooze

Major lithology: This core contains NANNOFOSSIL Ooze. Section 1, 0-145 cm, is flow-in. Sections 2 and 3 are heavily bioturbated as indicated from abundant gray (2.5Y 6/2), light gray (2.5Y 7/2), white (2.5Y 6/0) and white (2.5Y 8/2) mottling. The remainder of the core is primarily white (2.5Y 6/0) with some cm scale color bands of gray (2.5Y 6/1), reddish gray (5R 6/1), and pale yellowish green (10GY 7/2). These color bands are typically faint in appearance, wavy in form, and show abundant cm scale displacements (microfaulting) in the lower half of the core.

SMAR SLIDE SUMMARY (%):

| Clay | 65 |
| Diag | 40 |

COMPOSITION:

| Accessory Minerals | 7 |
| Dictyonema | 1 |
| Fusulinids | 3 |
| Nanofossils | 78 |
| Radiolarians | 5 |
| Siliceous fragments | 3 |
| Zoelite | 3 |

BIOSTRAT. ZONE/LITHOLOGIC DESCRIPTION

NANNOFOSSIL Ooze

Main lithology: This core contains NANNOFOSSIL Ooze. Section 1, 0-145 cm, is flow-in. Sections 2 and 3 are heavily bioturbated as indicated from abundant gray (2.5Y 6/2), light gray (2.5Y 7/2), and white (2.5Y 8/0) mottling. The remainder of the core is primarily white (2.5Y 6/0) with some cm scale color bands of gray (2.5Y 6/1), reddish gray (5R 6/1), and pale yellowish green (10GY 7/2). These color bands are typically faint in appearance, wavy in form, and show abundant cm scale displacements (microfaulting) in the lower half of the core.
**LITHOLOGIC DESCRIPTION**

Major lithology: This core contains heavily bioturbated, mottled, pale yellow (2.5Y 7/4) to light yellowish brown (10YR 6/4) NANNOFOSIL OOZE with FORAMINIFERS. Color bands in Section 3 are 25 to 35 cm thick and alternate between light gray (2.5Y 8/2) and white (2.5Y 7/2).

**SMEAR SLIDE SUMMARY (%):**

<table>
<thead>
<tr>
<th>SJ</th>
<th>Silt</th>
<th>Clay</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>5</td>
<td>40</td>
</tr>
</tbody>
</table>

**TEXTURE:**

- Sand: 5
- Silt: 55
- Clay: 40

**COMPOSITION:**

- Accessory minerals: 5
- Detritals: 2
- Foraminifera: 15
- Nannofossils: 70
- Radiolarians: 5
- Siliceous fragments: 3

---

**Graphical Lithology:**

- Section 1: 0.5 m
- Section 2: 1 m
- Section 3: 25 cm
- Section 4: 35 cm

---

**Core Map:**

- Site 804, Hole B, Core 1H, Cored Interval: 0.0-4.7 mbsf
LITHOLOGIC DESCRIPTION

NANNOFOSSIL Ooze with FORAMINIFERS

Major lithology: This core contains white (2.5Y 8/2) to light gray (2.5Y 7/2) NANNOFOSSIL Ooze with FORAMINIFERS. It is heavily bioturbated, as indicated by abundant light gray (5Y 7/2) mollusks that typically occur in zones 25 to 35 cm thick and approximately 65 to 80 cm apart.

SMEAR SLIDE SUMMARY (%):

- Silt: 5
- Clay: 35
- Foraminifers: 15
- Nannofossils: 72
- Silicoflagellates: 3
- Siliceous fragments: 3
- Accessory minerals: 3

TEXTURE:

- Silt: 5
- Clay: 35
**SITE 804 HOLE B CORE 3H CORED INTERVAL 14.2-23.7 mbsf**

**BIOSTRAT ZONE:**

<table>
<thead>
<tr>
<th>Time Zone</th>
<th>Fossil Character</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>^</em></td>
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<tr>
<td><em>^</em></td>
<td></td>
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<tr>
<td><em>^</em></td>
<td></td>
</tr>
</tbody>
</table>

**GRAPHIC LITHOLOGY**

**LITHOLOGIC DESCRIPTION**

This core contains NANNOFOSSIL Ooze with FORAMINIFERS. It is heavily bioturbated, as indicated by abundant mottles. Between Section 1 and Section 4, 85 cm, the sediment is dominantly white (2.5Y 8/2) to light gray (2.5Y 7/2) and exhibits some banding. From Section 4, 85 cm, to the base, 10 to 20 cm thick color bands alternate between white (2.5Y 8/1) and light gray (5Y 7/1). Within these bands, 2 to 5 mm thick pale yellowish green (7.5GY 7/2) and light gray (7.5YR 7/2) bands are common every 2 to 5 cm.

**SMER SLIDE SUMMARY (%)**

<table>
<thead>
<tr>
<th></th>
<th>4.50</th>
<th>4.130</th>
<th>7.62</th>
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<td>TEXTURE:</td>
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</tr>
<tr>
<td>Sand</td>
<td>10</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Sil</td>
<td>55</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>Clay</td>
<td>40</td>
<td>35</td>
<td>33</td>
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</tbody>
</table>

**COMPOSITION**

<table>
<thead>
<tr>
<th>Accessory minerals</th>
<th>Tr 25 25</th>
<th>Tr 25 25</th>
<th>Tr 1 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foraminifers</td>
<td>5 25</td>
<td>25</td>
<td>5 25</td>
</tr>
<tr>
<td>Radiolarians</td>
<td>1 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Siliceous fragments</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SAMPLES**

- NANNOFOSSIL Ooze with FORAMINIFERS
- Bioturbated sediment
- Color bands

**TEXTURE**

- Sand
- Sil
c- Clay

**COMPOSITION**

- Accessory minerals
- Foraminifers
- Radiolarians
- Siliceous fragments
**Lithologic Description**

The core consists of **Nannofossil ooze with Foraminifers**. The dominant color is white (5Y 6/1), with light gray (5Y 7/1), cm thick intervals 60 to 80 cm apart. In Sections 1 and 4, sharp color contacts between gray (2.5Y 6/0) and white (5Y 6/1) are noted. Also in Section 4, a few pale yellowish green (10GY 7/2) mm to cm thick bands are observed. Slight bioturbation is indicated by mottles, and burrows are filled with softer or pyritized material.

**Smear Slide Summary (%)**:

<table>
<thead>
<tr>
<th>Texture</th>
<th>Sand</th>
<th>Silt</th>
<th>Clay</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>55</td>
<td>35</td>
<td></td>
</tr>
</tbody>
</table>

**Composition**:

- Accessory minerals: Tr
- Diatoms: 17
- Foraminifers: 15
- Nannofossils: 85
- Radiolarians: 15

---

### Table: Textural and Mineralogical Analysis

<table>
<thead>
<tr>
<th>Sample</th>
<th>Texture</th>
<th>Silt</th>
<th>Clay</th>
<th>Foraminifers</th>
<th>Nannofossils</th>
<th>Radiolarians</th>
<th>Diatoms</th>
<th>Accessory Minerals</th>
</tr>
</thead>
<tbody>
<tr>
<td>804B-4H</td>
<td>Sand</td>
<td>15</td>
<td>55</td>
<td>15</td>
<td>85</td>
<td>15</td>
<td>17</td>
<td>Tr</td>
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<tr>
<td></td>
<td>Silt</td>
<td>55</td>
<td>35</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Clay</td>
<td>35</td>
<td>55</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Grain Size Distribution**

- **Sand**: 15%
- **Silt**: 55%
- **Clay**: 35%

---

**Graphical Lithology**

<table>
<thead>
<tr>
<th>Section</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><img src="image1.png" alt="Section 1 Image" /></td>
</tr>
<tr>
<td>2</td>
<td><img src="image2.png" alt="Section 2 Image" /></td>
</tr>
<tr>
<td>3</td>
<td><img src="image3.png" alt="Section 3 Image" /></td>
</tr>
<tr>
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<td><img src="image4.png" alt="Section 4 Image" /></td>
</tr>
<tr>
<td>5</td>
<td><img src="image5.png" alt="Section 5 Image" /></td>
</tr>
<tr>
<td>6</td>
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</tr>
<tr>
<td>7</td>
<td><img src="image7.png" alt="Section 7 Image" /></td>
</tr>
</tbody>
</table>
LITHOLOGIC DESCRIPTION

NANNOFOSSIL OOZE with FORAMINIFERS

Major lithology: This core contains NANNOFOSSIL OOZE with FORAMINIFERS. Sections 1, 2, and 9 are mainly white (5Y 8/1), with intervals (up to 70 cm thick) of light gray (5Y 7/1). Sections 3, 4, 5, and 7 are predominantly light gray (5Y 7/1), with intervals of white and gray up to 50 cm thick. Seven very pale green (10GY 7/2) color bands (about 1 cm thick) are present in Section 2, 97-117 cm. The sediment is slightly bioturbated as indicated by mottles and a few pyritized burrow fills.

SMAR SLIDE SUMMARY (%):

TEXTURE:
- Sand: 5
- Silt: 60
- Clay: 35

COMPOSITION:
- Accessory minerals: 1
- Dolomites: 1
- Foraminifers: 20
- Nannofossils: 75
- Radiolarians: 1
- Spicules: 1
**LITHOLIC DESCRIPTION**

NANOFOSIL Ooze with Radiolarians and Nanofossil Ooze

Major lithology. This core contains Nanofossil Ooze with Radiolarians, grading to Nanofossil Ooze. Below Section 1, Section 1 is light gray (2.5Y 7/1) and gray (2.5Y 6/1), grading to light gray (7.5YR 7/1) below 1.28 cm. Colors in Section 2 grade from light gray (7.5YR 7/6) to white (7.5YR 11/2) downsection. White (7.5YR N8/) and 2.5Y 8/0) dominates below Section 2. Faint light greenish gray (5G 7/1) and light gray (7.5Y 6/0) color banding is common to abundant in Sections 2 through 7. The entire core is slightly to moderately bioturbated.

**SMAR H/D SUMMARY (%)**

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<thead>
<tr>
<th>1</th>
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<th>9</th>
</tr>
</thead>
<tbody>
<tr>
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<td>4</td>
<td>9</td>
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**TEXTURE:**

<table>
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<tr>
<th>Sand</th>
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<th>Clay</th>
</tr>
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<tbody>
<tr>
<td>3</td>
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<td>95</td>
</tr>
<tr>
<td>7</td>
<td>4</td>
<td>95</td>
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</table>

**COMPOSITION:**

<table>
<thead>
<tr>
<th>Foraminifers</th>
<th>Nannofossils</th>
<th>Radiolarians</th>
<th>Spicules</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>97</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>3</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>
**Lithologic Description**

**Nannofossil Ooze**

Major lithology: This core contains slightly to heavily bioturbated, white (2.5Y 8/0) NANNOFOSIL Ooze. Numerous reddish gray (5R 6/1), light gray (N7/1) and light greenish gray, (5G 7/1) tint color bands and mottles are present throughout. Centimeter-scale microfaults are located in Section 1, 20-30 cm, Section 2, 40-50 cm and Section 3, 80-107 cm.

**Smear Slide Summary (%):**

<table>
<thead>
<tr>
<th>Component</th>
<th>1</th>
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</thead>
<tbody>
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<td>5</td>
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</tr>
<tr>
<td>Silica</td>
<td>50</td>
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</tr>
<tr>
<td>Clay</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

**Compositions:**

- Nannofossils: 97%
- Radiolarians: 3%
**LITHOLOGIC DESCRIPTION**

**NANNOFOSSIL OOZE**

Major lithology: This core contains NANNOFOSSIL OOZE. The core is white (2.5Y 8/0) and slightly to moderately bioturbated throughout, with abundant light gray (N7 and 5Y 7/1) mottling in Sections 1-4. Sections 5 through CC have a more homogeneous appearance.

Color banding is contorted in the following intervals: Section 1, 80-115 cm; Section 3, 90-115 cm; Section 4, 0-20 cm; Section 5, 25-44 cm.

**SMEAR SLIDE SUMMARY (%):**

<table>
<thead>
<tr>
<th>TEXTURE</th>
<th>Sand</th>
<th>Silt</th>
<th>Clay</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>5</td>
<td>90</td>
<td>5</td>
</tr>
</tbody>
</table>

**COMPOSITION:**

- Foraminifers: 3%
- Nannofossils: 95%
- Radiolarians: 2%
SITE 804 HOLE B CORE 9H CORED INTERVAL 71.2-80.7 mbsf

LITHOLOGIC DESCRIPTION
NANNOFOSSIL OOZE

Maj. lithology: Th

SMEAR SLIDE SUMMARY (%):
- Sand
- Silt

COMPOSITION:
- Radiolarians
SITE 804 HOLE B CORE 10H CORED INTERVAL 80.7-90.2 mbsf

LITHOLOGIC DESCRIPTION

NANNOFOSSIL Ooze

Major lithology. This core contains white (2.5Y NW) to light gray (N7/), slightly to moderately bioturbated NANNOFOSSIL Ooze. Pale green (10G 6/2) and reddish gray (5R 6/1) color bands are common in Sections 3-6. Microfossil ooze is evident in Section 1, 110-115 cm, and Section 2, 50-116 cm.

SMEAR SLIDE SUMMARY (%):

COMPOSITION:

Foraminifera 2, 69 5, 89
Radiolarians 0 D D

TEXTURE:

Sil 100 100

COMPOSITION:

Foraminifera 1 1
Radiolarians 3 3
Sponges 1 1
**Lithologic Description**

**Major Lithology:** This core contains NANNOFOSSIL OOZE, which grades into NANNOFOSSIL OOZE with FORAMINIFERS in Section 2. The core is white (2.5Y N8/), faintly mottled and less banded than the overlying cores. Broad pale blue (5PB 7/2) color bands are present in Sections 5-7.

**Minor Lithology:** Section 2, 105-115 cm, contains NANNOFOSSIL FORAMINIFER OOZE. This interval has a sharp base and grades upward into FORAMINIFER NANNOFOSSIL OOZE.

**Smear Slide Summary (%)**

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<th>Component</th>
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<th>2.107</th>
<th>2.115</th>
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<td>M</td>
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<td>Dolomite</td>
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<td>Feldspar</td>
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<tr>
<td>Foraminifers</td>
<td>40</td>
<td>40</td>
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<td></td>
</tr>
<tr>
<td>Nanofossils</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Spicules</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**Graphic Lithology**

- **X**: Depth in cm
- **Y**: Percentage of components

**Diagram**

- **A**: Site 804B-1 1H
- **B**: Core 11H
- **C**: Cored Interval 90.2-99.7 mbsf

---

**Table Notes**

- **D**: Detrital
- **M**: Minor
- **M**: Major
- **Tr**: Trace
SITE 804 HOLE B CORE 12H CORED INTERVAL 99.7-109.2 mbsf

LITHOLOGIC DESCRIPTION

NANNOFOSSIL Ooze

Major lithology: This core contains white (2.5Y N8/8), faintly mottled, and unburned NANNO FOSSIL Ooze. Faint pale pink (5RP 8/2) and dusky blue (5BP 3/2) color bands are present in Sections 1-5.

SMEAR SLIDE SUMMARY (%):

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<tr>
<th>Sample</th>
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<th>0</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>4</th>
<th>11</th>
<th>14</th>
<th>20</th>
</tr>
</thead>
<tbody>
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</tr>
</tbody>
</table>

TEXTURE:

- Sand: 10
- Silt: 85
- Clay: 5

COMPOSITION:

- Accessory minerals: 1
- Biotite: 2
- Opaque: 1
- Feldspar: 1
- Foraminifers: 70
- Nannofossils: 25
- Redtills: 3
- Spicles: 1

LITHOLOGIC DESCRIPTION

NANNOFOSSIL Ooze

Major lithology: This core contains white (2.5Y N8/8), faintly mottled, and unburned NANNO FOSSIL Ooze. Faint pale pink (5RP 8/2) and dusky blue (5BP 3/2) color bands are present in Sections 1-5.

SMEAR SLIDE SUMMARY (%):

<table>
<thead>
<tr>
<th>Sample</th>
<th>0</th>
<th>0</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>4</th>
<th>11</th>
<th>14</th>
<th>20</th>
</tr>
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<tbody>
<tr>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>

TEXTURE:

- Sand: 10
- Silt: 85
- Clay: 5

COMPOSITION:

- Accessory minerals: 1
- Biotite: 2
- Opaque: 1
- Feldspar: 1
- Foraminifers: 70
- Nannofossils: 25
- Redtills: 3
- Spicles: 1
NANNOFOSSIL Ooze

Major lithology: This core contains white (2.5Y 8/0) NANNOFOSSIL OOZE. Section 1, 0-55 cm, and Section 5, 37 cm to CC are flow-in. The remainder of the core is slightly to moderately bioturbated and contains light gray (7N/) color banding. Color bands are inclined to slightly contorted in Sections 1 and 2.

SMEAR SLIDE SUMMARY (%):

- Sard: 3.77%
- Silt: 2%
- Clay: 95%

TEXTURE:
- Silt: 95%
- Clay: 3%
- Sard: 2%

COMPOSITION:

<table>
<thead>
<tr>
<th>Accessory minerals</th>
<th>Beads</th>
<th>Shells</th>
<th>Paralithids</th>
<th>Fossil Remains</th>
<th>Spicules</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Tr</td>
<td>Tr</td>
<td>2</td>
<td>3</td>
<td>1</td>
</tr>
</tbody>
</table>

Accessory minerals: Tr; Beads: Tr; Shells: Tr; Paralithids: 2; Fossil Remains: 3; Spicules: 1.
SITE 804 HOLE B CORE 14H CORED INTERVAL 118.7-128.2 mbsf

LITHOLOGIC DESCRIPTION

NANNOFOSSIL OOZE
Major lithology: This core contains homogeneous, structureless, and dominantly white (2.5Y 8/0) NANNOFOSSIL OOZE. Two light gray (2.5Y 7/0) intervals (about 10 cm thick) are observed in Sections 2 and 3, both exhibiting sharp color contacts except the top of Section 2. Also in Section 2, a few cm thick, light gray color bands are noted. The core is slightly bioturbated as indicated by rare pyritized burrows.

SMEAR SLIDE SUMMARY (%):

<table>
<thead>
<tr>
<th>TEXTURE</th>
<th>COMPOSITION</th>
</tr>
</thead>
</table>
| Silt   | Foraminifers | 2
| Clay   | Nannofossils | 58
|  | Quartz | 10
|  | Spicules | 5
Major lithology: This core contains homogeneous, structureless, bioturbated and predominantly light gray (2.5Y 7/0) to white (2.5Y 8/0) NANNOFOSIL OOZE. Color changes are gradational. Rare, faint light gray (2.5Y 7/0) and gray (2.5Y 6/0) color bands are apparent in Sections 1-3 and 6.

SIMPLIRED SLIDE SUMMARY (%):
- Foraminifers: 63
- Nannofossils: 93
- Siliceous fragments: 1

TEXTURE:
- Sand: 5
- Silt: 30
- Clay: 65

COMPOSITION:
- Foraminifers: 63
- Nannofossils: 93
- Siliceous fragments: 1
**Lithologic Description**

**NANNOFOSSIL Ooze with FORAMINIFERS**

Major lithology: This core contains NANNOFOSSIL Ooze with FORAMINIFERS. It is homogeneous, with abundant color mottling indicative of heavy bioturbation. Alternations of pale brown (10YR 6/3) and light gray (10YR 7/2) colors are present throughout the core. Bioturbation is also evident from zones of disseminated pyrite.

**Smear Slide Summary (%):**

- **Texture:**
  - Sand: 3
  - Silt: 74
  - Clay: 0

- **Composition:**
  - Accessory minerals: 5
  - Clay: 2
  - Nannofossils: 2
  - Siliceous fragments: 87
  - Foraminifers: 3

**Graphic Lithology**

- **Core Description:**
  - Granular ooze
  - Disseminated pyrite
  - Mottling colors (pale brown, light gray)
  - Heavy bioturbation
NANNOFOSSIL Ooze with FORAMINIFERS

Major lithology: This core contains NANNOFOSSIL Ooze with FORAMINIFERS. It is homogeneous, with abundant color mottling indicative of heavy bioturbation. The sediment is dominantly white (10YR 8/2) but exhibits 10 to 20 cm thick, light gray (10YR 7/2) intervals that are spaced 20 to 30 cm apart.

SMEAR SLIDE SUMMARY (%):
- Clay: 3, 190
- Other: D

Texture:
- Sand: 5%
- Silt: 56%
- Clay: 40%

Composition:
- Accessory minerals: 1
- Foraminifera: 14
- Nannofossils: 85%
SITE 804 HOLE C CORE 3H CORED INTERVAL 15.8-25.3 mbsf

LITHOLOGIC DESCRIPTION

FORAMINIFER NANNOFOSIL OOZE and NANNOFOSIL OOZE with FORAMINIFERS

Major lithology: Section 1 to Section 3, 129 cm, contains NANNOFOSIL OOZE with FORAMINIFERS, which is dominantly white (10YR 8/2) and homogeneous, with abundant color mottling indicative of heavy bioturbation. Section 3, 10 to 20 cm, is FORAMINIFER NANNOFOSIL OOZE, which is dominantly white (10YR 8/2) with 10 to 20 cm thick, light gray (5Y 6/1) intervals that are spaced 20 to 30 cm apart. Pale, 2 to 5 mm thick, grayish green bands are present in the light gray intervals.

SMOKE SLIDE SUMMARY (%)

<table>
<thead>
<tr>
<th>Sample</th>
<th>Nannofossils</th>
<th>Foraminifera</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>127</td>
<td>13</td>
</tr>
<tr>
<td>3, 136</td>
<td>0</td>
<td>0</td>
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TEXTURE:

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<th>Grain Size</th>
<th>Size</th>
<th>Clay</th>
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<tr>
<td>Sand</td>
<td>15</td>
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<tr>
<td>Silt</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Clay</td>
<td>35</td>
<td></td>
</tr>
</tbody>
</table>

COMPOSITION:

<table>
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<tr>
<th>Component</th>
<th>Nannofossils</th>
<th>Foraminifera</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nannofossils</td>
<td>60</td>
<td>70</td>
</tr>
</tbody>
</table>
SITE 804 HOLE C  CORE 4H  CORED INTERVAL 25.3-34.8 mbsf

LITHOLOGIC DESCRIPTION

NANNOFOSSIL OOZE with FORAMINIFERS

Major lithology: This core contains NANNOFOSSIL OOZE with FORAMINIFERS. Sections 1 through 4, contain flow-in. The remaining sediments alternate between white (5Y 8/1) and light gray (5Y 7/1). Color contacts are gradational and color intervals are approximately of 10 to 35 cm thick and spaced about 40 cm apart. The degree of mottling and pyritized burrow infills suggests that the sediment has been moderately to heavily bioturbated.

SMAR SLIDE SUMMARY (%):

TEXTURE:
- Silt
- Clay

COMPOSITION:
- Accessory minerals: 2
- Foraminifers: 15
- Nannofossils: 83

Dr. John Doe
**LITHOLOGIC DESCRIPTION**

**NANNOFOSIL Ooze with FORAMINIFERS**

Major lithology: This core contains flow-in. Sections 1 through 3 and 6 through 7 are highly disturbed due to flow-in. From Section 4, 35 cm, to Section 6, 60 cm, drilling disturbance is moderate. The lithology within this interval is light gray (5Y 7/1) and heavily bioturbated NANNOFOSIL Ooze with FORAMINIFERS.

**SMEAR SLIDE SUMMARY (%):**

<table>
<thead>
<tr>
<th>TEXTURE</th>
<th>Sand</th>
<th>Silt</th>
<th>Clay</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5</td>
<td>65</td>
<td>30</td>
</tr>
</tbody>
</table>

**COMPOSITION:**

- Accessory minerals: 3
- Detritus: 2
- Foraminifers: 18
- Nannofossils: 74
- Radiolarians: 9
- Siliceous fragments: 3
**SITE 804 HOLE C**

**CORE 6H**

**CORED INTERVAL**: 44.3-53.8 MBSF

**LITHOLOGIC DESCRIPTION**

Major lithology: This core consists of white (2.5Y 8/0) **NANNOFOSSIL OOZE** (Section 1, 0-50 cm, is flow-in. The core catcher is also highly disturbed). Abundant, irregular and wavy, mm to cm thick color bands are noted throughout the core. Most of the bands are gray (7.5R 6/1) or green (10GY 7/2), but a few white (2.5Y 6/0) bands are noted. All show gradational color contacts. Microfaulting was observed in Sections 3, 5, 6 and 7. Moderate bioturbation is indicated by mottles, pyritized burrow fills and disseminated pyrite.

**SMEAR SLIDE SUMMARY (%):**

<table>
<thead>
<tr>
<th>Component</th>
<th>Sand</th>
<th>Silt</th>
<th>Clay</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPOSITION</td>
<td>3</td>
<td>74</td>
<td>3</td>
</tr>
</tbody>
</table>

**TEXTURE:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Tr</th>
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</thead>
<tbody>
<tr>
<td>Accessory minerals</td>
<td>97</td>
</tr>
<tr>
<td>Foraminifers</td>
<td>1</td>
</tr>
<tr>
<td>Radiolarians</td>
<td>2</td>
</tr>
<tr>
<td>Siliceous fragments</td>
<td>1</td>
</tr>
</tbody>
</table>
The core contains homogeneous and predominantly white (2.5Y 8/0) NANNOFOSIL OOZE. Subhorizontal reddish gray (5R 6/1), white (2.5Y 8/2) and pale yellowish green (10GY 7/2) bands are present throughout. The bands are 2 to 10 mm thick and are spaced 1 to 10 cm apart. The sediment is bioturbated and has some pyritized burrow fills.

SMEAR SLIDE SUMMARY (%):

| Clay | 3.75 |
| 60  | D    |

TEXTURE:

Silt 40
Clay 60

COMPOSITION:

Accessory minerals 0
Diatoms 0
Foraminifers 0
Nannofossils 0
Radiolarians 0
Skeletal fragments 0

Major lithology: This core contains homogeneous and predominantly white (2.5Y 8/0) NANNOFOSIL OOZE. Subhorizontal reddish gray (5R 6/1), white (2.5Y 8/2) and pale yellowish green (10GY 7/2) bands are present throughout. The bands are 2 to 10 mm thick and are spaced 1 to 10 cm apart. The sediment is bioturbated and has some pyritized burrow fills.
**LITHOLOGIC DESCRIPTION**

**NANNOFOSSIL OOZE**

Major lithology: This core contains white (2.5Y 7/0) NANNOFOSSIL OOZE. Sections 1 and 2 contain abundant, tilted and wavy, faint, reddish gray (5R 6/1) color bands. The bands are about 0.5 to 1 cm thick and are separated by about 0.5 to 1 cm of white (2.5Y 8/0) ooze. Color banding is parallel and horizontal from Section 2, 130 cm, to Section 4, 28 cm. Only occasional color banding is observed below this level in the core.

Minor lithology: A thin (3 cm thick) bed of FORAMINIFER NANNOFOSSIL OOZE is noted in Section 5, 78-81 cm. It forms a graded bed with a sharp, irregular upper contact. This bed is very soft in comparison with the surrounding sediment.

**SMEAR SLIDE SUMMARY (%):**

| Clay | 50 |
| D | 40 |
| M | 20 |

<table>
<thead>
<tr>
<th>Textural Classification</th>
<th>4.5</th>
<th>5.5</th>
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<tbody>
<tr>
<td>Sand</td>
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<td>20</td>
</tr>
<tr>
<td>Silt</td>
<td>55</td>
<td>50</td>
</tr>
</tbody>
</table>

**Composition:**

<table>
<thead>
<tr>
<th>Accessory minerals</th>
<th>2</th>
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<tbody>
<tr>
<td>Detrital</td>
<td>5</td>
</tr>
<tr>
<td>Foraminifera</td>
<td>6</td>
</tr>
<tr>
<td>Glaucophytes</td>
<td>74</td>
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<tr>
<td>Glauconite</td>
<td>58</td>
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<tr>
<td>Radiolaria</td>
<td>5</td>
</tr>
<tr>
<td>Silicoclasts</td>
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<tr>
<td>Siliceous sponge spicules</td>
<td>1</td>
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<tr>
<td>Silicoflagellates</td>
<td>Tr</td>
</tr>
</tbody>
</table>

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*Site 804*
Major lithology: This core contains slightly to moderately bioturbated, white (2.5Y 6/0) NANNOFOSIL OOZE. Sections 1 through 4 display abundant tilted, reddish gray (5R 6/1), pale blue green (5BG 7/2), and green (10GY 6/1) color bands. In Sections 3 and 5, color bands display mm to cm size microfaults.

SMEAR SLIDE SUMMARY (%):

- Texture:
  - Sand: 5%
  - Silt: 50%
  - Clay: 15%

- Composition:
  - Nannofossils: 95%
  - Radiolarians: 1%
  - Foraminifers: 1%
  - Diatoms: 1%
  - Silicoflagellates: 1%
  - Spicules: 1%
  - Accessory minerals: 1%
SITE 804    HOLE C    CORE 10H    CORED INTERVAL 82.3-91.8 mbsf

LITHOLOGIC DESCRIPTION

NANNOFOSSIL Ooze

Major lithology: This core contains slightly to heavily bioturbated white (2.5Y 8/0) NANNOFOSSIL Ooze. Faint pale blue (5PB 7/3), pale purple (5P 6/2), and white (5YR 8/1) color bands are common throughout. Some color bands in Section 3 are heavily bioturbated.

SMERG SLIDE SUMMARY (%):

<table>
<thead>
<tr>
<th>COMPOSITION</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td>20%</td>
</tr>
<tr>
<td>Clay</td>
<td>30%</td>
</tr>
</tbody>
</table>

TEXTURE:

- Silt: 30%

ACCESSORY MINERALS:

- Diatoms: 1%
- Foraminifers: 2%
- Radiolarians: 2%
- Glaucophacites: 1%
- Spicules: 1%

FORAMINIFERS:

- Triloculina
- Heterostegina
- Globigerina
- Quinqueloculina
- Nummulites
- Globorotalia
- Orbitoides
- Elphidium
- Elphidiolinella
- Globigerina
- Deinoceras
- Subbotina
- Globigerina
- Globotruncanida
- Gephyrocapsa
- Ammonia
- Quinqueloculina
- Neogloboquadrina
- Globigerina
- Uvigerina
- Quinqueloculina
- Globigerina
- Ammonia
- Orbitoides
- Elphidium
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- Globigerina
- Gephyrocapsa
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- Quinqueloculina
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- Quinzeloculina
- Globigerina
- Elphidium
- Subbotina
- Globigerina
- Gephyrocapsa
- Ammonia
- Quinzeloculina
- Globigerina
- Elphidium
- Subbotina
- Globigerina
- Gephyrocapsa
- Ammonia
- Quinzeloculina
- Globigerina
- Elphidium
- Subbotina
- Globigerina
- Gephyrocapsa
- Ammonia
- Quinzeloculina
- Globigerina
### Lithologic Description

**Major Lithology:** This core contains white (2.5Y 6/0), slightly to heavily bioturbated NANNOFOSIL OOZE. The core is more homogeneous and has less color banding than overlying cores. Faint pale blue (5PB 7/2) and grayish blue (5PB 5/2) color bands are present in Sections 5 and 6.

**Minor Lithology:** Section 2, 28-42 cm, contains NANNOFOSIL FORAMINIFER OOZE. This interval has a sharp base and grades upward into the overlying lithology.

#### Smear Slide Summary (%)

<table>
<thead>
<tr>
<th>Texture</th>
<th>Sand</th>
<th>Silt</th>
<th>Clay</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>50</td>
<td>45</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Composition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accessory minerals</td>
</tr>
<tr>
<td>Bioclast</td>
</tr>
<tr>
<td>Diatoms</td>
</tr>
<tr>
<td>Foraminifers</td>
</tr>
<tr>
<td>Nannofossils</td>
</tr>
<tr>
<td>Ostracods</td>
</tr>
<tr>
<td>Radiolarians</td>
</tr>
<tr>
<td>Silicoflagellates</td>
</tr>
<tr>
<td>Spicules</td>
</tr>
</tbody>
</table>

---

### Diagram

[Diagram of core sections and lithologic description]
**LITHOLOGIC DESCRIPTION**

**NANOFOSIL OOZE**

Major lithology: This core contains white (2.5Y 8/0), slightly to heavily bioturbated NANOFOSIL OOZE. Faint pale blue (5PB 7/2), pale purple (5RP 7/2), and grayish blue (5PB 5/2) color bands are present in Sections 3, 6 and 7. Microfaults are evident in Section 3, 6 and 7.

**SMEAR SLIDE SUMMARY (%)**

<table>
<thead>
<tr>
<th>TEXTURE</th>
<th>SAND</th>
<th>SILT</th>
<th>CLAY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2.60</td>
<td>90</td>
<td>23</td>
</tr>
</tbody>
</table>

**COMPOSITION**

<table>
<thead>
<tr>
<th>Foraminifers</th>
<th>Nannofossils</th>
<th>Radiolarians</th>
<th>Volcanic ash</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>50</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

---

**Diagram:**

- **Column 1:** Substrate, Zone, Fossil Character, Nannofossil, Radiolaria, Foraminifera, Paleocurrents, Temperature,ichaer, Density, Gamma Ray, Resistivity, Density.
- **Column 2:** Depth, Section, Lithology, Clay, Sand, Silt, Total, Foraminifera, Nannofossils, Radiolarians, Paleocurrents.
- **Column 3:** Depth, Section, Lithology, Clay, Sand, Silt, Total, Foraminifera, Nannofossils, Radiolarians, Paleocurrents.
- **Column 4:** Depth, Section, Lithology, Clay, Sand, Silt, Total, Foraminifera, Nannofossils, Radiolarians, Paleocurrents.
- **Column 5:** Depth, Section, Lithology, Clay, Sand, Silt, Total, Foraminifera, Nannofossils, Radiolarians, Paleocurrents.
- **Column 6:** Depth, Section, Lithology, Clay, Sand, Silt, Total, Foraminifera, Nannofossils, Radiolarians, Paleocurrents.
- **Column 7:** Depth, Section, Lithology, Clay, Sand, Silt, Total, Foraminifera, Nannofossils, Radiolarians, Paleocurrents.
- **Column 8:** Depth, Section, Lithology, Clay, Sand, Silt, Total, Foraminifera, Nannofossils, Radiolarians, Paleocurrents.
- **Column 9:** Depth, Section, Lithology, Clay, Sand, Silt, Total, Foraminifera, Nannofossils, Radiolarians, Paleocurrents.
- **Column 10:** Depth, Section, Lithology, Clay, Sand, Silt, Total, Foraminifera, Nannofossils, Radiolarians, Paleocurrents.
- **Column 11:** Depth, Section, Lithology, Clay, Sand, Silt, Total, Foraminifera, Nannofossils, Radiolarians, Paleocurrents.
- **Column 12:** Depth, Section, Lithology, Clay, Sand, Silt, Total, Foraminifera, Nannofossils, Radiolarians, Paleocurrents.

---

**Legend:**

- **Cc:** Clay content
- **Paleo:** Paleocurrents

---

**Site:** 804

**Hole:** C

**Core:** 12H

**Cored Interval:** 101.3-110.8 mbsf
**Lithologic Description**

**Nanofossil Ooze**

Major lithology: This core contains white (2.5Y 8/0), slightly to heavily bioturbated Nanofossil Ooze. Faint reddish gray (5R 6/1), pale pink (5RP 8/2), pale blue (5PB 7/2), pale purple (5RP 7/2), and grayish blue (5PB 5/2) color bands are present in Sections 1 through 3.

**Smear Slide Summary (%):**

- **Texture:**
  - Sand: 2.65
  - Silt: 93
  - Clay: 4.35

- **Composition:**
  - Diatoms: 1
  - Foraminifers: 3
  - Nannofossils: 92
  - Radiolarians: 1
  - Silicoflagellates: 1
**SITE 804 HOLE C **

**CORE 14X**

**CORED INTERVAL 120.0-129.8 mbsf**

**LITHOLOGIC DESCRIPTION**

NANNOFOSSIL Ooze with FORAMINIFERS

Major Lithology: This core contains white (2.5Y 8/0), slightly to heavily bioturbated NANNOFOSSIL Ooze with FORAMINIFERS. The core is homogeneous with faint pale blue (5PB 7/2) color bands present in Section 2 only.

**SMEAR SLIDE SUMMARY (%):**

<table>
<thead>
<tr>
<th>Sand</th>
<th>Silt</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>85</td>
</tr>
</tbody>
</table>

**TEXTURE:**

- Sand: 15%
- Silt: 85%

**COMPOSITION:**

- Foraminifera: 15%
- Nannofossils: 85%
- Radiolarians: 5%
**SITE 804 HOLE C**

**CORE 15X**

**CORED INTERVAL 129.8-139.3 mbsf**

<table>
<thead>
<tr>
<th>TIME-Rock Unit</th>
<th>Fossil</th>
<th>Character</th>
<th>Nanofossil</th>
<th>Textile</th>
<th>Section</th>
<th>Graphic Lithology</th>
<th>Lithologic Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>NANNOSOSSIL Ooze with Foraminifera</td>
</tr>
</tbody>
</table>

Major lithology: This core contains white (2.5Y 8/8), slightly to heavily bioturbated NANNOSOSSIL Ooze with Foraminifera. The core is relatively homogeneous with faint grayish blue (5PB 5/2) color band present only in Section 2.

**SMEAR SLIDE SUMMARY (%):**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foraminifera</td>
<td>10</td>
</tr>
<tr>
<td>Nannofossils</td>
<td>96</td>
</tr>
<tr>
<td>Radiolarians</td>
<td>1</td>
</tr>
<tr>
<td>Siliciflagellates</td>
<td>1</td>
</tr>
</tbody>
</table>

**TEXTURE:**

- Sand: 13
- Silt: 86

**COMPOSITION:**

- Foraminifera: 10
- Nannofossils: 96
- Radiolarians: 1
- Siliciflagellates: 1

---

**SITE 804 HOLE C**

**CORE 16X**

**CORED INTERVAL 139.3-148.8 mbsf**

<table>
<thead>
<tr>
<th>TIME-Rock Unit</th>
<th>Fossil</th>
<th>Character</th>
<th>Nanofossil</th>
<th>Textile</th>
<th>Section</th>
<th>Graphic Lithology</th>
<th>Lithologic Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NNB</td>
<td>Diartus</td>
<td>Nanofossil</td>
<td></td>
<td></td>
<td></td>
<td>NANNOSOSSIL Ooze</td>
</tr>
</tbody>
</table>

Major lithology: This core contains white (2.5Y 8/8), homogeneous, moderately bioturbated NANNOSOSSIL Ooze.

**SMEAR SLIDE SUMMARY (%):**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foraminifera</td>
<td>2</td>
</tr>
<tr>
<td>Nannofossils</td>
<td>96</td>
</tr>
<tr>
<td>Radiolarians</td>
<td>2</td>
</tr>
</tbody>
</table>

**TEXTURE:**

- Sand: 1
- Silt: 55
- Clay: 4

**COMPOSITION:**

- Foraminifera: 2
- Nannofossils: 96
- Radiolarians: 2
SITE 804  HOLE C  CORE 17X  CORED INTERVAL 148.8-158.3 mbsf

LITHOLOGIC DESCRIPTION

NANOFOSIL Ooze with FORAMINIFERS and FORAMINIFER NANOFOSIL Ooze

Major lithology: Section 1 through Section 4.5 cm. contain moderately bioturbated NANOFOSIL Ooze with FORAMINIFERS. In Sections 1 through 5 the color of the sediment is white (2.5Y 6/2) grading down to light gray (N7/1) and light greenish gray (5G 7/1). The lower part of the core contains FORAMINIFER NAMINOFOSSIL Ooze. The color grades from light blue gray (5G 7/1) to white (2.5Y 6/2), with slight to moderate mottling. A cm scale burrow fill, with possible offset along a microfault, is seen in Section 6 between 100 and 125 cm.

SMERI SLIDE SUMMARY (%):

<table>
<thead>
<tr>
<th>TEXTURE:</th>
<th>2</th>
<th>5</th>
<th>11</th>
<th>25</th>
<th>50</th>
<th>75</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td>15</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silt</td>
<td>85</td>
<td>75</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

COMPOSITION:

| Foraminifers | 13 | 25 |
| Radiolarians | 85 | 74 |
| Silicoflagellates | 1 | 1 |

SITE 804
SITE 804 HOLE C CORE 18X CORED INTERVAL 158.3-168.0 mbsf

LITHOLOGIC DESCRIPTION

NANNOFossil OOZE with RADIOLARIANS

Major lithology: This core contains slightly bioturbated NANNOFossil OOZE with RADIOLARIANS. Section 1 is light gray (2.5Y 6/0) with a gray (2.5Y 6/0) color band at 140 cm. The remainder of the core is white (2.5Y 8/0). The sediment appears more lithified and harder than in the overlying cores, with relatively hard pieces within a softer matrix. Section 4, 80-95 cm appears disturbed by coring processes.

SMEAR SLIDE SUMMARY (%):

<table>
<thead>
<tr>
<th>COMPOSITION</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diatoms</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foraminifers</td>
<td>5</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radiolarians</td>
<td>10</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Siliceous sponge spicules</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
LITHOLOGIC DESCRIPTION

Major lithology: This core contains NANNOFOSSIL OOZE with FORAMINIFERS, grading to NANNOFOSSIL OOZE with RADIO-LARIANS in Sections 5 through the Core Catcher. The core is predominantly white (2.5Y 8/0), with minor gradations to light blue gray (5B 7/1) and white (5Y 8/0). Light greenish gray (5GY 8/1), greenish gray (5GY 6/1), pale blue (5PB 7/2), and pale red purple (5RP 6/2) color bands are rare to common throughout the core. The entire core is moderately to heavily bioturbated.

Minor lithology: Two normally-graded layers of NANNOFOSSIL FORAMINIFER OOZE are present in this core; the first is at Section 1, 30-80 cm, and the second is at Section 3, 10-22 cm. Both are white (2.5Y 8/0), have sharp top and bottom contacts, and are probably turbidites.

SMOKE SLIDE SUMMARY (%):

<table>
<thead>
<tr>
<th>TEXTURE</th>
<th>1.01</th>
<th>1.76</th>
<th>4.32</th>
<th>5.52</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td>80</td>
<td>10</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Silica</td>
<td>20</td>
<td>50</td>
<td>60</td>
<td>50</td>
</tr>
</tbody>
</table>

COMPOSITION:

<table>
<thead>
<tr>
<th></th>
<th>Foraminifers</th>
<th>Nannofossils</th>
<th>Radiolarians</th>
<th>Siliceous sponge spicules</th>
<th>Silicoflagellates</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>68</td>
<td>30</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>50</td>
<td>80</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>20</td>
<td>80</td>
<td>2</td>
<td></td>
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</tr>
<tr>
<td>4</td>
<td>2</td>
<td>80</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>2</td>
<td>80</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>2</td>
<td>80</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>2</td>
<td>80</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>2</td>
<td>80</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>2</td>
<td>80</td>
<td>2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
NANNOFOSIL OOZE with RADIOLARINS grading to NANNOFOSIL CHALK

Major lithology: This core contains bioturbated NANNOFOSIL OOZE with RADIOLARINS grading to NANNOFOSIL CHALK in Section 3, 35 cm. The color of the sediment grades from white (2.5Y 8/0) to white (5Y 8/1 and 5Y 8/2). Light gray (2.5Y 7/2) and light greenish gray (5GY 7/1), 2 to 20 cm thick, heavily burrowed zones are present at 150 cm intervals.

SMEAR SLIDE SUMMARY (%):

<table>
<thead>
<tr>
<th>COMPOSITION</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Nannofossils</td>
<td>3</td>
<td>5</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Radiolarians</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

TEXTURE:

| Sand | 15 | 10 |
| 50% | 85 | 90 |

COMPOSITION:

Foraminifers | 3 | 5 |
Nannofossils  | 87 | 90 |
Radiolarians  | 10 | 5 |
LITHOLOGIC DESCRIPTION

NANOFOSIL CHALK

Major lithology. This core contains white (10YR 8/2) NANOFOSIL CHALK. One to two light gray intervals (up to 20 cm thick) are observed in each section. The core catcher is light gray (2.5Y 7/2). The sediment is moderately to heavily bioturbated, as seen from mottles and burrow fills. Sections 2 through 4 contain elongate (2-5 cm long) features with thin outlines that may be either burrows or ooze/chalk clasts (SEE MINOR LITHOLOGY).

Minor lithology. The light gray (2.5Y 7/2) intervals in Section 2, 80-97 cm, and Section 3, 22-27 cm, contain FORAMINIFER NANOFOSIL CHALK and NANOFOSIL CHALK with FORAMINIFERS, respectively.

SMEAR SLIDE SUMMARY (%):

<table>
<thead>
<tr>
<th></th>
<th>2.88</th>
<th>3.122</th>
<th>3.26</th>
<th>3.78</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>D</td>
<td>M</td>
<td>D</td>
<td></td>
</tr>
<tr>
<td>Sand</td>
<td>20</td>
<td>8</td>
<td>15</td>
<td>6</td>
</tr>
<tr>
<td>Silt</td>
<td>40</td>
<td>60</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>Clay</td>
<td>20</td>
<td>32</td>
<td>25</td>
<td>34</td>
</tr>
</tbody>
</table>

TEXTURE:

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>1</th>
<th>1</th>
<th>3</th>
</tr>
</thead>
</table>
| COMPOSITION:
| Accessory minerals | 1    | 1    | 1    | 3    |
| Nanofossils | 27   | 6    | 12   | 5    |
| Radiolarians | 9    | 9    | 1    | 9    |
| Siliceous fragments | 2    | 3    | 2    | 2    |
Major lithology: This core contains RADIOLARIAN NANNOFOSSIL CHALK. The sediment color varies between very pale brown (10YR 8/4) and white (10YR 8/2). Intense bioturbation indicated by abundant burrows, trace fossils, and mottling. Most of the bioturbation is highly contorted, swirled, or fractured. Thin color banding or lamination in Section 4, 63-72 cm, appears to be stretched. Thin banding elsewhere exhibits micro-faulting, rotation, and irregular contacts. Angular, very pale brown (10YR 7/3) clasts are distributed irregularly through the core.

Minor lithology: A band in Section 5, 115 cm, consists of NANNOFOSSIL RADIOLARITE.

SMAR ELDIGE SUMMARY (%):

<table>
<thead>
<tr>
<th>Texture</th>
<th>Sand</th>
<th>Silt</th>
<th>Clay</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>15</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>M</td>
<td>40</td>
<td>60</td>
<td>55</td>
</tr>
<tr>
<td>D</td>
<td>25</td>
<td>25</td>
<td>25</td>
</tr>
</tbody>
</table>

COMPOSITION:

<table>
<thead>
<tr>
<th>Component</th>
<th>D</th>
<th>M</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nannofossils</td>
<td>60</td>
<td>30</td>
<td>55</td>
</tr>
<tr>
<td>Radiolarians</td>
<td>40</td>
<td>70</td>
<td>45</td>
</tr>
<tr>
<td>Siliceous sponge spicules</td>
<td>Tr</td>
<td>Tr</td>
<td>Tr</td>
</tr>
</tbody>
</table>
SITE 804  HOLE C  CORE 23X  CORED INTERVAL 206.8-216.5 mbsf

LITHOLOGIC DESCRIPTION

Major lithology: Sections 1 through 4 of this core contain pale brown (10YR 7/4) RADIOLARIAN NANNOFOSIL CHALK. Moderate to heavy bioturbation is evident from well-preserved trace fossils. The sediment is otherwise structureless, although drilling disturbance is heavy. Section 4 grades from very pale brown (10YR 8/3) to white (10YR 8/1). This color gradation marks a transition from radiolarian nannofossil chalk to nannofossil ooze.

Minor lithology: White (10YR 8/1), homogeneous NANNOFOSIL OOZE is present in Sections 5 and 6 of this core. It is very stiff, structureless, and heavily disturbed by drilling.

SMEAR SLIDE SUMMARY (%):

<table>
<thead>
<tr>
<th>TEXTURE</th>
<th>1</th>
<th>75</th>
<th>8</th>
<th>74</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td>10</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clay</td>
<td>35</td>
<td>35</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

COMPOSITION:

| Foraminifers | 1 |
| Nannofossils | 60 80 |
| Radiolarien | 40 n 9 |
| Siliceous fragments | 1 |
| Siliceous sponge spicules | Tr |
**SITE 804 HOLE C**  
**CORE 24X**  
**CORED INTERVAL 216.5-226.2 mbsf**

### Lithologic Description

**Major lithology:** This core contains white (2.5Y 8/2), homogeneous, bioturbated NANNOFOSIL OOZE. The top of Section 2 contains a few pyritized burrow fragments up to 20 mm long. Adjacent to one pyrite fragment is a pod of white (2.5Y 8/0) NANNOFOSIL OOZE with RADIOLARIANS.

**Smear Slide Summary (%):**

<table>
<thead>
<tr>
<th>Texture</th>
<th>Sand</th>
<th>Silt</th>
<th>Clay</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.16</td>
<td>2.75</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Composition</th>
<th>Foraminifers</th>
<th>Nannofossils</th>
<th>Radiolarians</th>
<th>Siliceous fragments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>78</td>
<td>96</td>
<td>20</td>
<td>1</td>
</tr>
</tbody>
</table>

---

**LOWER MIOCENE**

**CAMPANIAN**

**NS**

**Stichoceros dentatus**

**INTO 2** Cretaceous deposits

---

**SAMPLES**

**LITHOLOGIC DESCRIPTION**

**TEXTURE:**
- Sand
- Silt
- Clay

**COMPOSITION:**
- Foraminifers
- Nannofossils
- Radiolarians
- Siliceous fragments

---

**GRAPHIC LITHOLOGY**

---

**TIME-ROCK UNIT**

**PARAMETERS**

**LITHOLOGY**

---

**SAMPLES**

---

**404C-24X**

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**SITE 804**
**Lithologic Description**

NANNOFOSSIL CHALK

Major lithology: This core contains NANNOFOSSIL CHALK that grades to ooze in a few intervals. In Section 1, the chalk contains a significant percentage of RADIOLARIANS. The chalk is predominantly white (10YR 8/2) with intervals of light gray (10YR 7/2) that are 10 to 30 cm thick. The white colored intervals are slightly bioturbated and the light gray intervals are heavily bioturbated. Color bands (mm-scale) in the gray intervals of Section 2 are contorted.

**Smear Slide Summary (%):**

<table>
<thead>
<tr>
<th>Texture:</th>
<th>1.49</th>
<th>3.75</th>
<th>6.75</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td>10</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Silt</td>
<td>90</td>
<td>40</td>
<td>35</td>
</tr>
<tr>
<td>Clay</td>
<td>35</td>
<td>55</td>
<td>68</td>
</tr>
</tbody>
</table>

**Composition:**

| Accessory minerals: | — | — | Tr |
|——|——|——|
| Glauconite | — | — | — |
| Nanofossils | 92 | 90 | 99 |
| Radiolarians | 12 | 2 | — |
| Siliceous fragments | 1 | Tr | Tr |
| Siliceous sponge spicules | — | Tr | — |
SITE 804 HOLE C CORE 26X CORED INTERVAL 235.8-245.9 mbsf

LITHOLOGIC DESCRIPTION

NANNOFOSSIL CHALK with RADICLARIANS

Major lithology: This core contains white (10YR 8/1 and 10YR 8/2) NANNOFOSSIL CHALK with RADICLARIANS. Heavy bioturbation is indicated by abundant trace fossils. Drilling disturbance is severe, resulting in abundant fragmentation and brecciation of the core.

SMAR SLIDE SUMMARY (%):

<table>
<thead>
<tr>
<th>Texture</th>
<th>1.9</th>
<th>4.7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td>15</td>
<td>10</td>
</tr>
<tr>
<td>Silt</td>
<td>66</td>
<td>70</td>
</tr>
<tr>
<td>Clay</td>
<td>30</td>
<td>20</td>
</tr>
</tbody>
</table>

COMPOSITION:

- Accessory minerals: Tr, Tr
- Foraminifers: 4
- Nannofossils: 75, 71
- Radiolarians: 20, 20
- Siliceous fragments: 5, 5
**Lithologic Description**

**Nannofossil Chalk with Radiolarians**

Major lithology: This core consists of white (10YR 8/1) Nannofossil Chalk with Radiolarians. The color grades from very pale brown (10YR 7/3) in Section 2 to a darker shade of very pale brown (10YR 7/4) in Section 4. Sections 2, 3, 4, 6, and CC are brecciated or highly fragmented into biscuits.

**Smear Slide Summary (%):**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silt</td>
<td>3.96</td>
</tr>
<tr>
<td>Clay</td>
<td>0</td>
</tr>
</tbody>
</table>

**Texture:**

<table>
<thead>
<tr>
<th>Texture</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clay</td>
<td>70</td>
</tr>
<tr>
<td>Silt</td>
<td>30</td>
</tr>
</tbody>
</table>

**Composition:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accessory minerals</td>
<td>2</td>
</tr>
<tr>
<td>Clay</td>
<td>70</td>
</tr>
<tr>
<td>Foraminifera</td>
<td>2</td>
</tr>
<tr>
<td>Nannofossils</td>
<td>80</td>
</tr>
<tr>
<td>Orgoearns</td>
<td>11</td>
</tr>
<tr>
<td>Siliceous fragments</td>
<td>5</td>
</tr>
</tbody>
</table>
LITHOLOGIC DESCRIPTION

NANNOSOSSIL CHALK and NANNOSOSSIL CHALK with RADIOLARIANS

Major lithology: Sections 1 through 3 are very pale brown (10YR 7/4 to 10YR 8/3) NANNOSOSSIL CHALK with RADIOLARIANS. These sections are heavily bioturbated as evidenced from abundant trace fossils. Below Section 3, the color grades from very pale brown (10YR 8/3) to white (10YR 8/2 and 10YR 6/1). The radiolarian content is reduced in the lower part of the core, where it becomes a NANNOSOSSIL CHALK. Bioturbation is abundant in this interval. Drilling disturbance is moderate to severe throughout the core.

SMEAR SLIDE SUMMARY (%):

<table>
<thead>
<tr>
<th></th>
<th>1-75</th>
<th>4-63</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td></td>
<td>D</td>
</tr>
</tbody>
</table>

TEXTURE:
- Sand: 5
- Silt: 45
- Clay: 40

COMPOSITION:
- Clay: 5
- Foraminifers: 3
- Nannofossils: 92
- Radiolarians: 10
NANNOFOSSIL CHALK with RADIOLARIANS

Major lithology: This core contains slightly to heavily bioturbated NANNOFOSSIL CHALK with RADIOLARIANS. The color grades from white (2.5Y 8/0) in the upper three sections to alternating intervals of white (2.5Y 8/0) and very pale brown (10YR 8/3) in Sections 4 through 6. Drilling disturbance is moderate to severe throughout the core.

TEXTURE:
- Silt
- Clay

COMPOSITION:
- Nannofossils
- Radiolarians
NANNOFOSSIL CHALK

Major lithology: This core contains NANNOFOSSIL CHALK. The color varies between shades of white (10YR 8/2, 10YR 8/1) in Section 1 and 2, and is more uniformly white (10YR 8/1) in the remainder of the core. Hard intervals are intermixed with softer ones in Section 1. In Section 1, 100 cm, there is a 5 cm thick section that exhibits discontinuous parallel lamination. The entire core is slightly to heavily bioturbated and is moderately fractured by drilling.

SMOKE SLIDE SUMMARY (%):

<table>
<thead>
<tr>
<th>TEXTURE</th>
<th>1</th>
<th>117</th>
<th>2</th>
<th>67</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td>95</td>
<td>95</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clay</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

COMPOSITION:

- Foraminifers: 2
- Nannofossils: 91
- Radiolarians: 2
- Silicoflagellates: 2

LITHOLOGIC DESCRIPTION
Major lithology: This core contains NANNOFOSSIL CHALK. The core is white (10YR 8/1), grading to white (10YR 8/2) at the base of Section 3. Bioturbation varies from minor to heavy throughout the core.

SMEAR SLIDE SUMMARY (%):

TEXTURE:
- Sand: 4
- Silt: 96

COMPOSITION:
- Foraminifers: 1
- Radiolarians: 1
- Reeds: 1

NANNOFOSSIL CHALK

Major lithology: This core contains NANNOFOSSIL CHALK. The core is white (10YR 8/1), grading to white (10YR 8/2) at the base of Section 3. Bioturbation varies from minor to heavy throughout the core.
**LITHOLOGIC DESCRIPTION**

NANNOFOSIL CHALK to NANNOFOSIL CHALK with RADIOLARIANS

Major lithology: This core contains NANNOFOSIL CHALK, grading to NANNOFOSIL CHALK with RADIOLARIANS. The core is white (10YR 8/1 to 10YR 8/2) in both sediment types. Bioturbation is slight to heavy throughout the core, including well-developed Zoophycos track fossils in Section 1.

**SMAR SLIDE SUMMARY (%)**

<table>
<thead>
<tr>
<th>TEXTURE</th>
<th>COMPOSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Diatoms</td>
</tr>
<tr>
<td>Sand</td>
<td>8</td>
</tr>
<tr>
<td>Clay</td>
<td>92</td>
</tr>
</tbody>
</table>

**TEXTURE**

- Sand
- Clay

**COMPOSITION**

- Diatoms
- Foraminifers
- Nannofossils
- Quartz
- Radiolarians
- Siliceous sponge spicules
Lithologic Description

NANNOFOSSIL CHALK to NANNOFOSSIL CHALK with RADIOLARIANS

Main lithology: This core contains NANNOFOSSIL CHALK grading to NANNOFOSSIL CHALK with RADIOLARIANS. The core is white (10YR 8/1 to 10YR 8/2) in both sediment types. Bioturbation is slight to heavy throughout the core, including well-developed Zoophycos trace fossils in Section 1.

Smear Slide Summary (%):

<table>
<thead>
<tr>
<th>Texture</th>
<th>1.70</th>
<th>2.49</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Silt</td>
<td>90</td>
<td>90</td>
</tr>
<tr>
<td>Clay</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

Composition:

- Diatoms
- Foraminifers
- Nannofossils
- Quartz
- Radiolarians
- Siliceous sponge spicules

100%