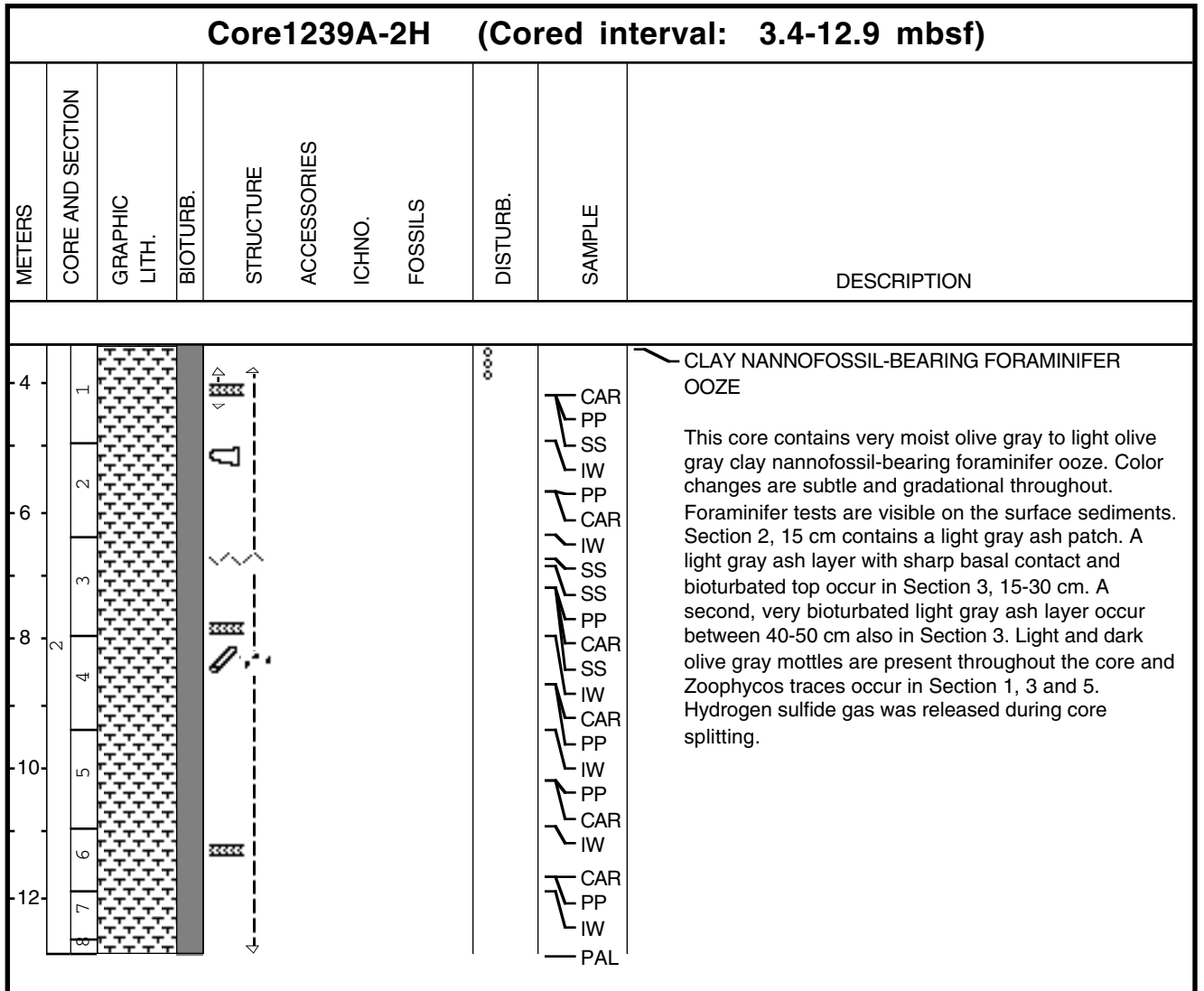


Core Photo

| Core1239A-1H (Cored interval: 0.0-3.4 mbsf) | | | | | | | | | |
|---|------------------|---------------|----------|-----------------------|--------|---------|----------|--------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 1 2 3 | 1 2 3 | | | | | | | | <p>CLAY NANNOFOSSIL-BEARING FORAMINIFER OOZE</p> <p>The lithology of this core is dominated by olive gray clay nannofossil-bearing foraminifer ooze. Color changes are subtle and gradational throughout. The color becomes darker downcore from Section 1. The core is very moist and foraminifer tests are visible on the surface sediments, indicating good preservation. Mottles and borrows are observed in Section 3, and degassing fissure occurs in Section 2. Hydrogen sulfide gas was released during core splitting.</p> |

Core Photo



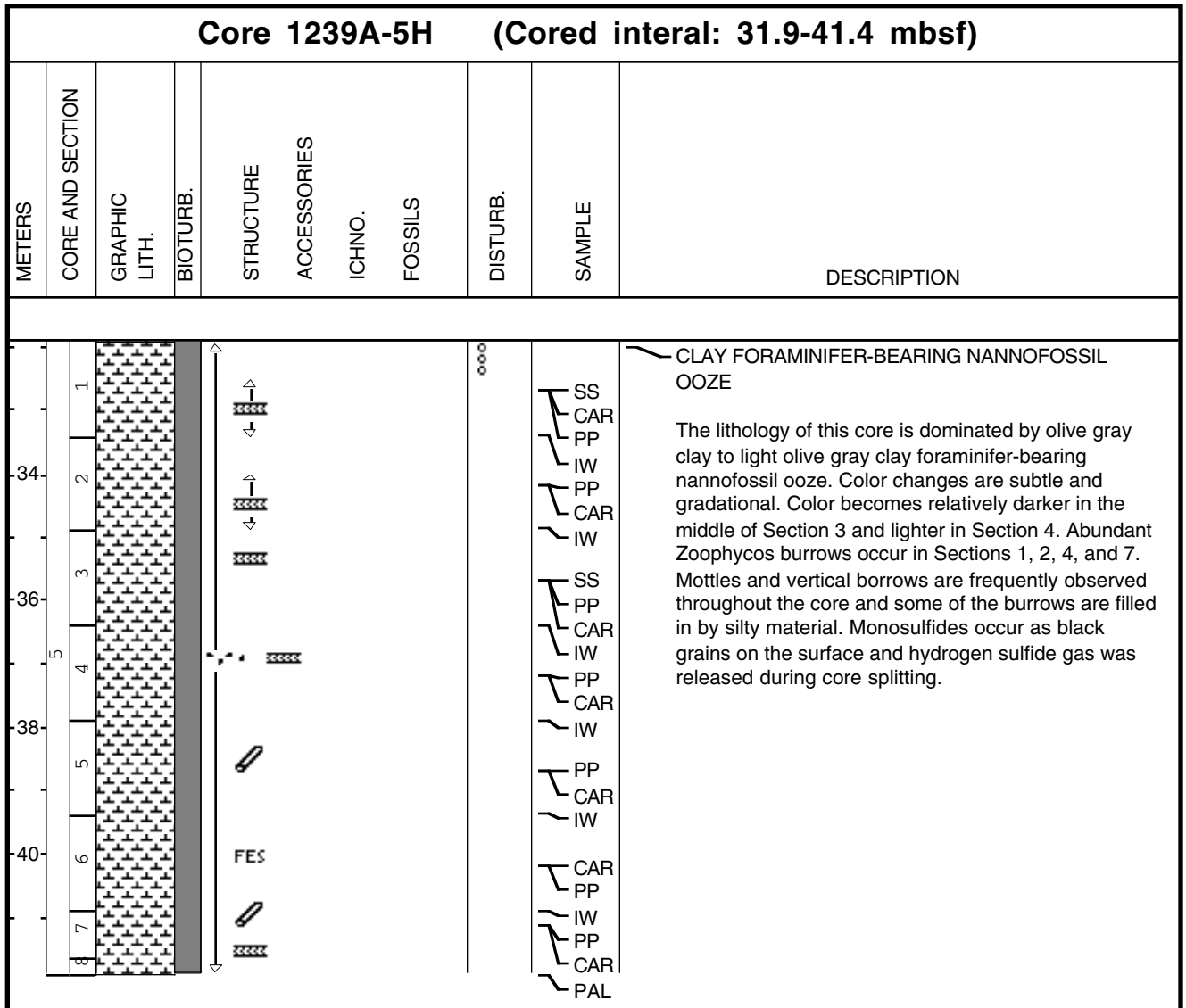
Core Photo

| Core1239A-3H (Cored interval: 12.9-22.4 mbsf) | | | | | | | | | | |
|---|------------------|-------------------------|----------|------------------|-------------|--------|---------|----------|--------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 14 | 1 | [Cross-hatched pattern] | | [Dotted pattern] | | | | | PP | <p>CLAY NANNOFOSSIL-BEARING FORAMINIFER OOZE</p> <p>The lithology of this core is dominated by olive gray clay to light olive gray clay nannofossil-bearing foraminifer ooze. Color changes are subtle and gradational and become darker downcore from Section 6. The core is very moist and foraminifer tests are visible from the surface, indicating good preservation. An ash layer with a sharp base and bioturbated top occur in Section 4, 72-78 cm. Shell fragments and silty patches are found in Section 6. Abundant Zoophycos burrows occur in Sections 1, 5, 6, and 7. Mottles and borrows are observed throughout the core. Hydrogen sulfide gas was released during core splitting.</p> |
| 16 | 2 | [Cross-hatched pattern] | | [Dotted pattern] | | | | | SS | |
| | 3 | [Cross-hatched pattern] | | [Dotted pattern] | | | | | CAR | |
| | 4 | [Cross-hatched pattern] | | [Dotted pattern] | | | | | IW | |
| | 5 | [Cross-hatched pattern] | | [Dotted pattern] | | | | | PP | |
| | 6 | [Cross-hatched pattern] | | [Dotted pattern] | | | | | IW | |
| | 7 | [Cross-hatched pattern] | | [Dotted pattern] | | | | | CAR | |
| 18 | 3 | [Cross-hatched pattern] | | [Dotted pattern] | | | | | SS | |
| | 4 | [Cross-hatched pattern] | | [Dotted pattern] | | | | | CAR | |
| | 5 | [Cross-hatched pattern] | | [Dotted pattern] | | | | | PP | |
| | 6 | [Cross-hatched pattern] | | [Dotted pattern] | | | | | IW | |
| | 7 | [Cross-hatched pattern] | | [Dotted pattern] | | | | | PP | |
| | | [Cross-hatched pattern] | | [Dotted pattern] | | | | | CAR | |
| | | [Cross-hatched pattern] | | [Dotted pattern] | | | | | SS | |
| | | [Cross-hatched pattern] | | [Dotted pattern] | | | | | IW | |
| | | [Cross-hatched pattern] | | [Dotted pattern] | | | | | CAR | |
| | | [Cross-hatched pattern] | | [Dotted pattern] | | | | | PP | |
| | | [Cross-hatched pattern] | | [Dotted pattern] | | | | | SS | |
| | | [Cross-hatched pattern] | | [Dotted pattern] | | | | | IW | |
| | | [Cross-hatched pattern] | | [Dotted pattern] | | | | | CAR | |
| | | [Cross-hatched pattern] | | [Dotted pattern] | | | | | PP | |
| | | [Cross-hatched pattern] | | [Dotted pattern] | | | | | SS | |
| | | [Cross-hatched pattern] | | [Dotted pattern] | | | | | IW | |
| | | [Cross-hatched pattern] | | [Dotted pattern] | | | | | CAR | |
| | | [Cross-hatched pattern] | | [Dotted pattern] | | | | | PP | |
| | | [Cross-hatched pattern] | | [Dotted pattern] | | | | | PAL | |

Core Photo

| Core 1239A-4H (Cored interval: 22.4-31.9 mbsf) | | | | | | | | | | |
|--|------------------|---------------|----------|-----------|-------------|--------|---------|----------|------------------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 24 | 1 | | | | | | | | PP CAR IW | <p>CLAY FORAMINIFER-BEARING NANNOFOSSIL OOZE</p> <p>The lithology of this core is dominated by olive gray clay to light olive gray clay foraminifer-bearing nannofossil ooze. Color changes are subtle and gradational. Color becomes relatively darker in Sections 4 and 5. Abundant Zoophycos burrows occur in Sections 1, 2, 4, 6. Mottles and borrows are observed throughout the core and some of the burrows are filled in by silty material. Hydrogen sulfide gas was released during core splitting.</p> |
| 26 | 2 | | | | | | | | PP CAR IW | |
| 28 | 3 | | | | | | | | CAR PP IW | |
| 30 | 4 | | | | | | | | CAR PP IW | |
| 32 | 5 | | | | | | | | CAR PP IW | |
| | 6 | | | | | | | | PP CAR IW | |
| | 7 | | | | | | | | CAR PP PAL | |
| | 8 | | | | | | | | | |

Core Photo



Core Photo

| Hole 1239A-8H (Cored interval: 60.4-69.9 mbsf) | | | | | | | | | | |
|--|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 62 | 1 | | | | | | | | | <p>CLAY-BEARING FORAM NANNOFOSSIL OOZE</p> <p>This core contains clay-bearing foram nannofossil ooze. Sediment color is pale olive and olive. Color mottling is present throughout and are especially intense in Section 1, 90-106 cm, and Section 2, 10-72 cm. Discrete burrows, including Zoophycos traces, are present in Sections 2-5. Section 1, 106-118 cm, contains a gray ash layer with a patch of ooze in the center of the layer. Ash patches occur below and above the layer. Another ash patch occurs at 141 cm. A concretion, composed of nannofossil-bearing lithified mudstone, is present in Section 3, 50-54 cm.</p> |
| 64 | 2 | | | | | | | | | |
| 64 | 3 | | | | | | | | | |
| 66 | 4 | | | | | | | | | |
| 66 | 5 | | | | | | | | | |
| 68 | 6 | | | | | | | | | |
| 68 | 7 | | | | | | | | | |
| 70 | 8 | | | | | | | | | |
| | | | | | | | | | | <ul style="list-style-type: none"> SS CAR PP SS PP CAR SS IW CAR PP CAR PP PP CAR PAL |

Core Photo

| Core 1239A-9H (Cored interval: 69.9-79.4 mbsf) | | | | | | | | | | |
|--|------------------|---------------|----------|-----------|-------------|--------|---------|----------|-----------------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 72 | 1 | [Pattern] | | [Symbol] | | | | | PP SS CAR | <p>NANNOFOSSIL OOZE with MICRITE and DIATOM-BEARING NANNOFOSSIL OOZE</p> <p>This core contains nannofossil ooze with micrite and diatom-bearing nannofossil ooze. Sediment color varies between olive to pale olive with common color mottling. Discrete burrows, including Zoophycos traces, are present throughout. The patch in Section 2, 30 cm, contains different bioclasts and benthic foraminifera. Section 5, 121-127 cm, contains a gray ash layer with color mottles typical of bioturbation. The uppermost 17 cm of the core are disturbed by coring.</p> |
| 72 | 2 | [Pattern] | | [Symbol] | | | | | CAR PP | |
| 74 | 3 | [Pattern] | | | | | | | SS PP CAR | |
| 74 | 4 | [Pattern] | | [Symbol] | | | | | IW PP CAR | |
| 76 | 5 | [Pattern] | | [Symbol] | | | | | CAR PP | |
| 78 | 6 | [Pattern] | | [Symbol] | | | | | PP CAR | |
| 78 | 7 | [Pattern] | | [Symbol] | | | | | CAR PP | |
| 78 | 8 | [Pattern] | | [Symbol] | | | | | PAL | |

Core Photo

| Core 1239A-10H (Cored interval: 79.4-88.9 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|------------------------|-----------------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 80 | 1 | | | | | | | | PP SS CAR | <p>CLAY-BEARING DIATOM NANNOFOSSIL OOZE with MICRITE and NANNOFOSSIL OOZE</p> <p>This core contains homogenous dark olive to olive clay-bearing diatom nannofossil ooze with micrite and nannofossil ooze. Sediment color changes are subtle and gradational throughout. Mottles and preserved burrow traces are sparse. A patch of foraminifers occurs in Section 3, 82 cm.</p> |
| 82 | 2 | | | | | | | CAR PP | | |
| 84 | 3 | | | | | | | PP SS IW | | |
| 84 | 4 | | | | | | | PP CAR | | |
| 86 | 5 | | | | | | | CAR PP | | |
| 88 | 6 | | | | | | | CAR PP | | |
| 88 | 7 | | | | | | | CAR PP SS PAL | | |
| 88 | 8 | | | | | | | | | |

Core Photo

| Core 1239A-11H (Cored interval :88.9-98.4 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-------------|---------------|--------|---------|-----------------------|-----------------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 90 | 1 | [Pattern] | | [Structure] | [Accessories] | | | | PP SS CAR | <p>DIATOM-BEARING NANNOFOSSIL OOZE and FORAMINIFER DIATOM-BEARING NANNOFOSSIL OOZE with MICRITE</p> <p>This core contains homogeneous and firm diatom-bearing nannofossil ooze and foraminifer diatom-bearing nannofossil ooze with micrite. Sediment color is olive and lightens slightly towards pale olive downcore. Sparse burrows, mottles and Zoophycos traces occur intermittently throughout.</p> |
| 92 | 2 | [Pattern] | | [Structure] | [Accessories] | | | PP CAR | | |
| 94 | 3 | [Pattern] | | [Structure] | [Accessories] | | | SS CAR PP IW | | |
| 94 | 4 | [Pattern] | | [Structure] | [Accessories] | | | CAR PP | | |
| 96 | 5 | [Pattern] | | [Structure] | [Accessories] | | | SS CAR PP | | |
| 98 | 6 | [Pattern] | | [Structure] | [Accessories] | | | CAR PP | | |
| 98 | 7 | [Pattern] | | [Structure] | [Accessories] | | | PAL | | |

Core Photo

| Core 1239A-12H (Cored interval: 98.4-107.9 mbsf) | | | | | | | | | | |
|--|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 100 | 1 | [Pattern] | | [Symbol] | | | | | | <p>DIATOM NANNOFOSSIL OOZE with MICRITE</p> <p>This core contains firm, homogeneous diatom nannofossil ooze with micrite. Sediment color varies from dark olive gray to olive and pale olive. Color mottling is very subtle. Burrows, including Zoophycos traces occur throughout. Section 1, 22 cm, contains a carbonate concretion. A white, smeared, oval consisting of clay diatom nannofossil-bearing mudstone is present in Section 2. A speck of ash is contained within a burrow trace in Section 4, 43 cm.</p> |
| 102 | 2 | [Pattern] | | [Symbol] | | | | | | |
| 104 | 3 | [Pattern] | | [Symbol] | | | | | | |
| 104 | 4 | [Pattern] | | [Symbol] | | | | | | |
| 106 | 5 | [Pattern] | | [Symbol] | | | | | | |
| 106 | 6 | [Pattern] | | [Symbol] | | | | | | |
| 108 | 7 | [Pattern] | | [Symbol] | | | | | | |
| 108 | 8 | [Pattern] | | [Symbol] | | | | | | |

Core Photo

| Core 1239A-13H (Cored interval: 107.9-117.4 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|----------|------------------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 110 | 1 | [Pattern] | | | | | | | CAR PP SS | <p>CLAY-BEARING DIATOM NANNOFOSSIL OOZE with MICRITE and CLAY DIATOM-BEARING NANNOFOSSIL OOZE with MICRITE</p> <p>This core contains firm, homogenous clay-bearing diatom nannofossil ooze with micrite and clay diatom-bearing nannofossil ooze with micrite. Sediment color varies between pale olive, olive, and dark olive gray. Bioturbation and mottling are very subtle throughout. Few Zoophycos traces and vertical burrows are present. Small black smears and tiny specks of ash occur randomly downcore.</p> |
| 112 | 2 | [Pattern] | | | | | | | PP CAR | |
| 114 | 3 | [Pattern] | | | | | | | SS PP CAR | |
| 116 | 4 | [Pattern] | | | | | | | PP CAR | |
| | 5 | [Pattern] | | | | | | | PP CAR | |
| | 6 | [Pattern] | | | | | | | PP CAR | |
| | 7 | [Pattern] | | | | | | | CAR PP PAL | |
| | 8 | [Pattern] | | | | | | | | |

Core Photo

| Core 1239A-14H (Cored interval: 117.4-126.9 mbsf) | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | DESCRIPTION |
| | | | | ICHNO. | FOSSILS | |
| | | | | DISTURB. | SAMPLE | |
| 118 | 1 | | | | | <p>CLAY DIATOM-FORAMINIFER-BEARING NANNOFOSSIL OOZE with MICRITE</p> <p>This core is dominated by firm, homogenous clay diatom-foraminifer-bearing nannofossil ooze with micrite. Color changes are subtle and gradational between olive gray to light olive gray downcore. The colors become darker in Section 6. Bioturbation and mottling are present throughout. Few Zoophycos traces and vertical burrows occur in Sections 1, 5, and 7. Small grains of iron sulfides (FeS) occur throughout.</p> |
| 120 | 2 | | | | | |
| | 3 | | | FES | | |
| 122 | 4 | | | | | |
| 124 | 5 | | | | | |
| | 6 | | | | | |
| 126 | 7 | | | | | |
| | 8 | | | | | |
| | | | | | | <ul style="list-style-type: none"> CAR SS PP PP CAR PP SS IW PP PP CAR PP PP PAL |

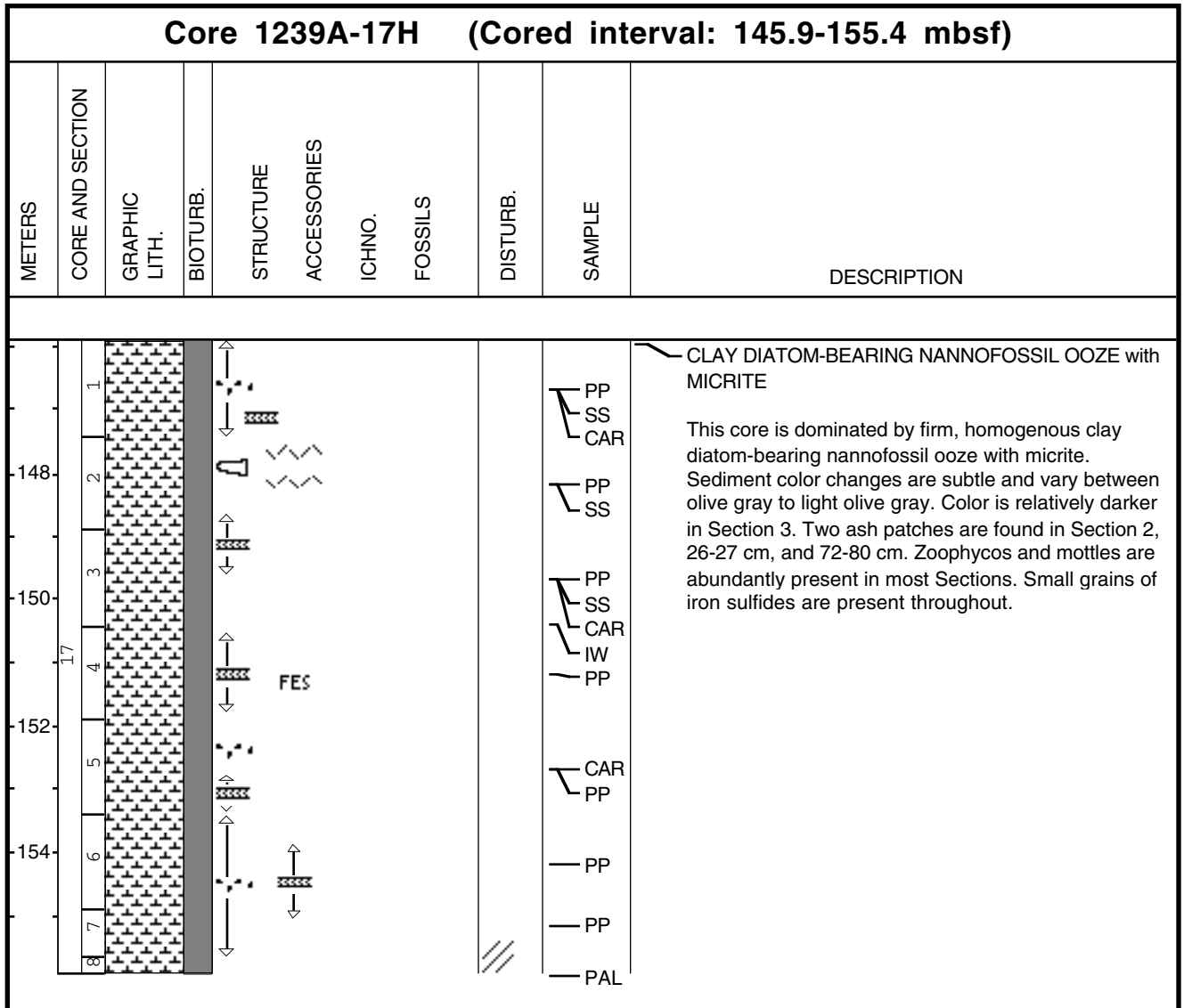
Core Photo

| Core 1239A-15H (Cored interval: 126.9-136.4 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 128 | 1 | | | | | | | | | <p>DIATOM-BEARING NANNOFOSSIL OOZE with MICRITE</p> <p>This core contains firm, homogeneous diatom-bearing nannofossil ooze with micrite. Sediment color vary from olive gray to light olive gray and all color changes are subtle and gradational. Bioturbation is moderate throughout the core. Faint mottles and burrows are present in all sections and Zoophycos traces are present in Section 3.</p> |
| 130 | 2 | | | | | | | | | |
| 132 | 3 | | | | | | | | | |
| 134 | 4 | | | | | | | | | |
| 136 | 5 | | | | | | | | | |
| | 6 | | | | | | | | | |
| | 7 | | | | | | | | | |
| | 8 | | | | | | | | | |

Core Photo

| Core 1239A-16H (Cored interval: 136.4-145.9 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|-----------------------------|-----------------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 138 | 1 | | | | | | | | PP CAR SS | <p>DIATOM-BEARING NANNOFOSSIL OOZE with MICRITE</p> <p>This core is dominated by firm, homogenous diatom-bearing nannofossil ooze with micrite. Sediment color changes are subtle and vary between olive gray to light olive gray throughout. Colors become darker in Sections 4 and 5. Bioturbation is moderate throughout the core. Zoophycos are present in Sections 2, 3, 4, and 6. Small grains of iron sulfides occur throughout.</p> |
| 140 | 2 | | | | | | | PP | | |
| 142 | 3 | | | | | | | PP CAR SS IW PP | | |
| 144 | 4 | | | | | | | PP CAR | | |
| 146 | 5 | | | | | | | PP | | |
| | 6 | | | | | | | PP | | |
| | 7 | | | | | | | PP | | |
| | 8 | | | | | | | PAL | | |

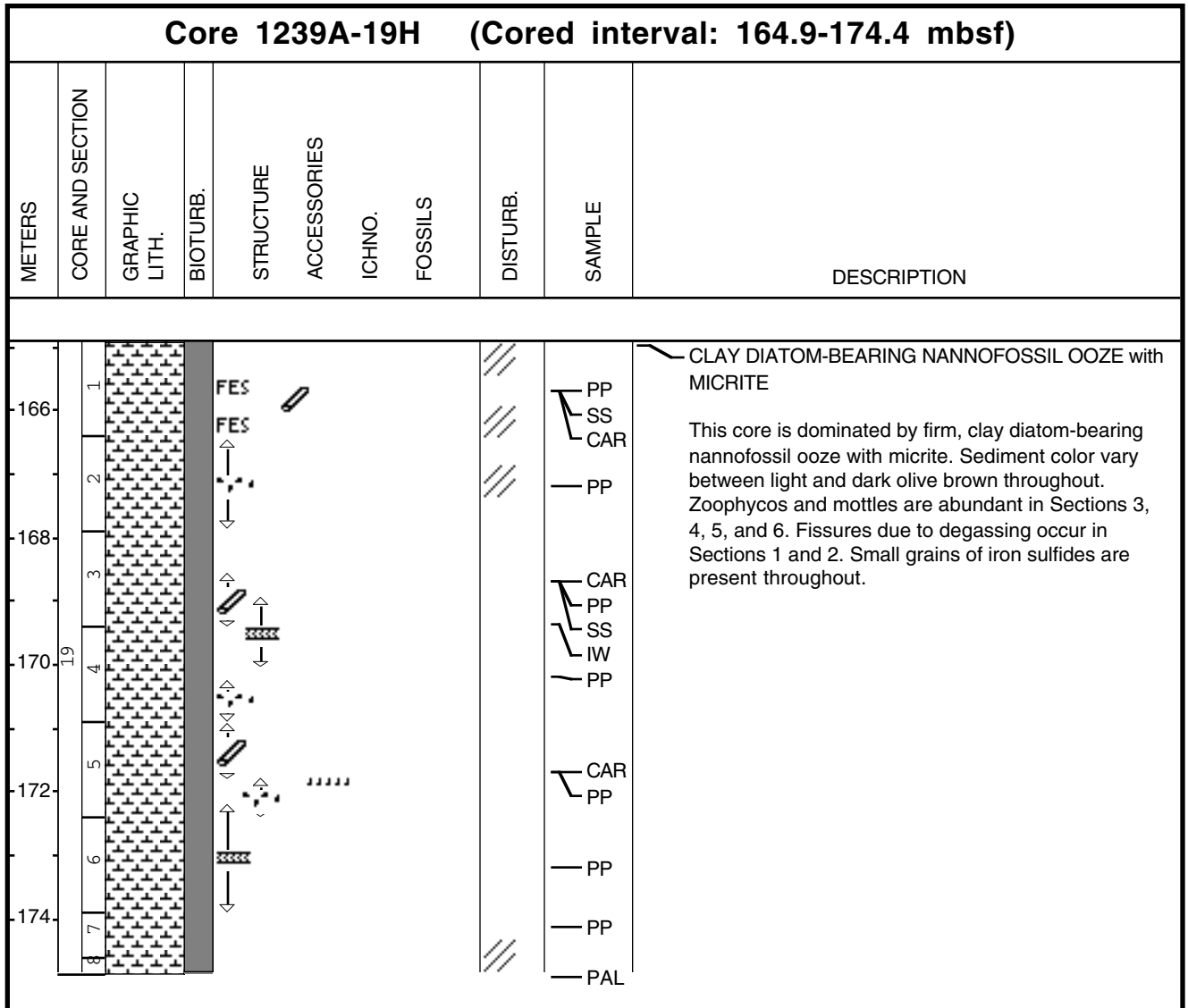
Core Photo



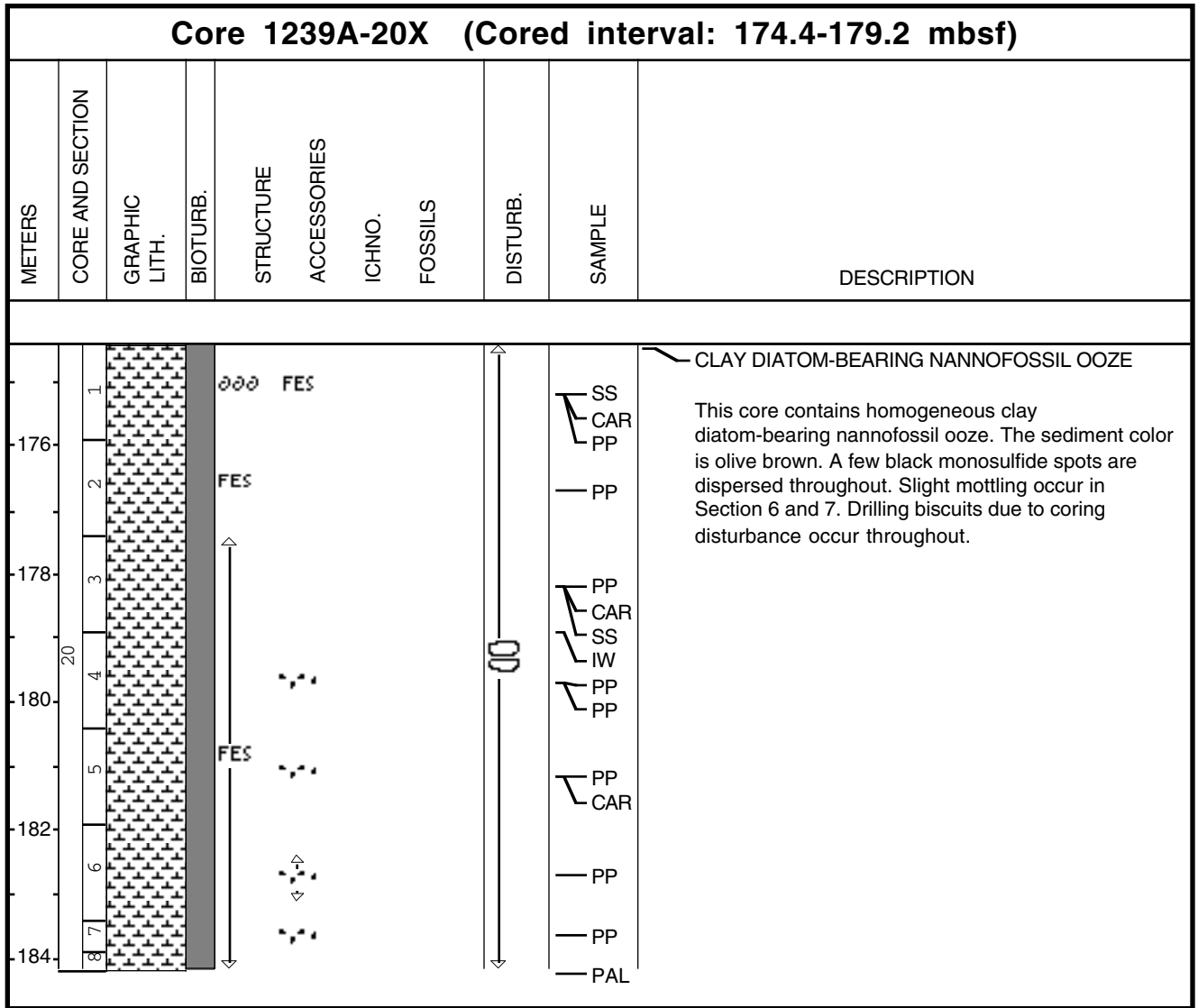
Core Photo

| Core 1239A-18H (Cored interval: 155.4-164.9 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 156 | 1 | | | | | | | | | <p>CLAY-BEARING NANNOFOSSIL OOZE with MICRITE</p> <p>This core contains firm and homogeneous clay-bearing nannofossil ooze with micrite. Sediment color vary subtle and gradataional between olive gray and light olive gray throughout. A light gray bioturbated ash layer is present in Section 2, 123-127 cm. The core is moderatly bioturbated with faint mottles and filled burrows occuring in all sections. The upper 69 cm of the core is soupy and slightly disturbed.</p> |
| 158 | 2 | | | | | | | | | |
| 160 | 3 | | | | | | | | | |
| 162 | 4 | | | | | | | | | |
| 164 | 5 | | | | | | | | | |
| | 6 | | | | | | | | | |
| | 7 | | | | | | | | | |
| | 8 | | | | | | | | | |

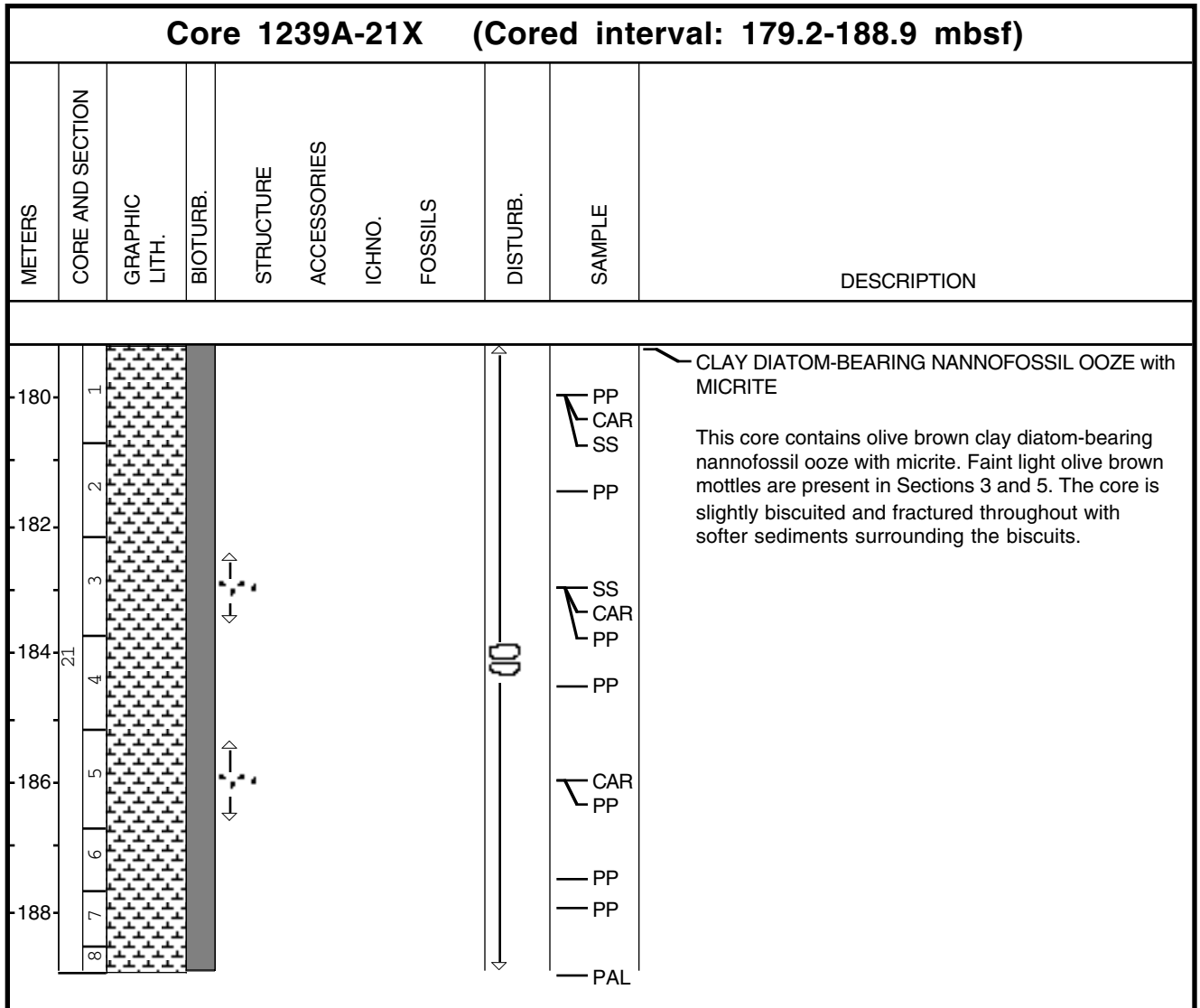
Core Photo



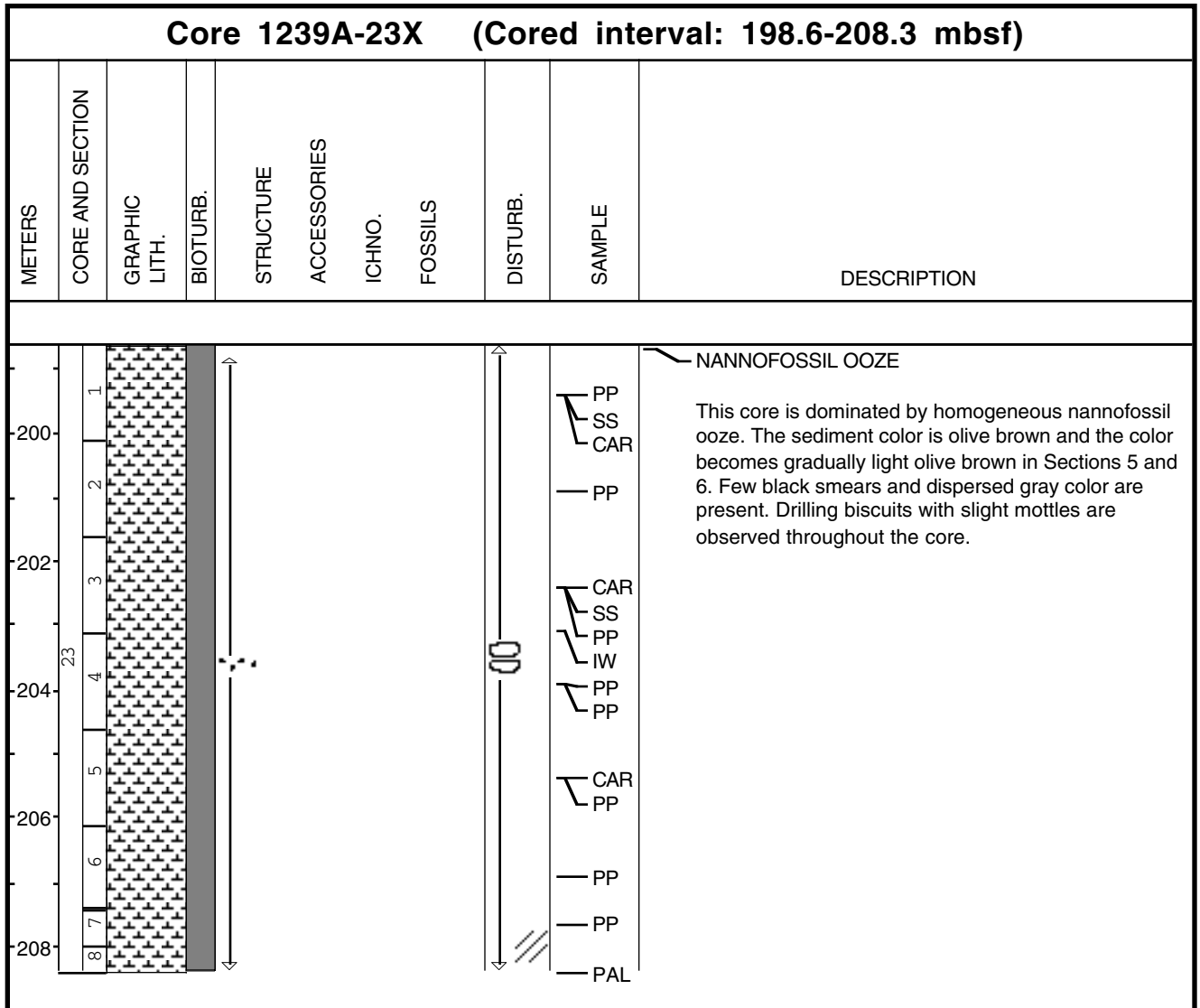
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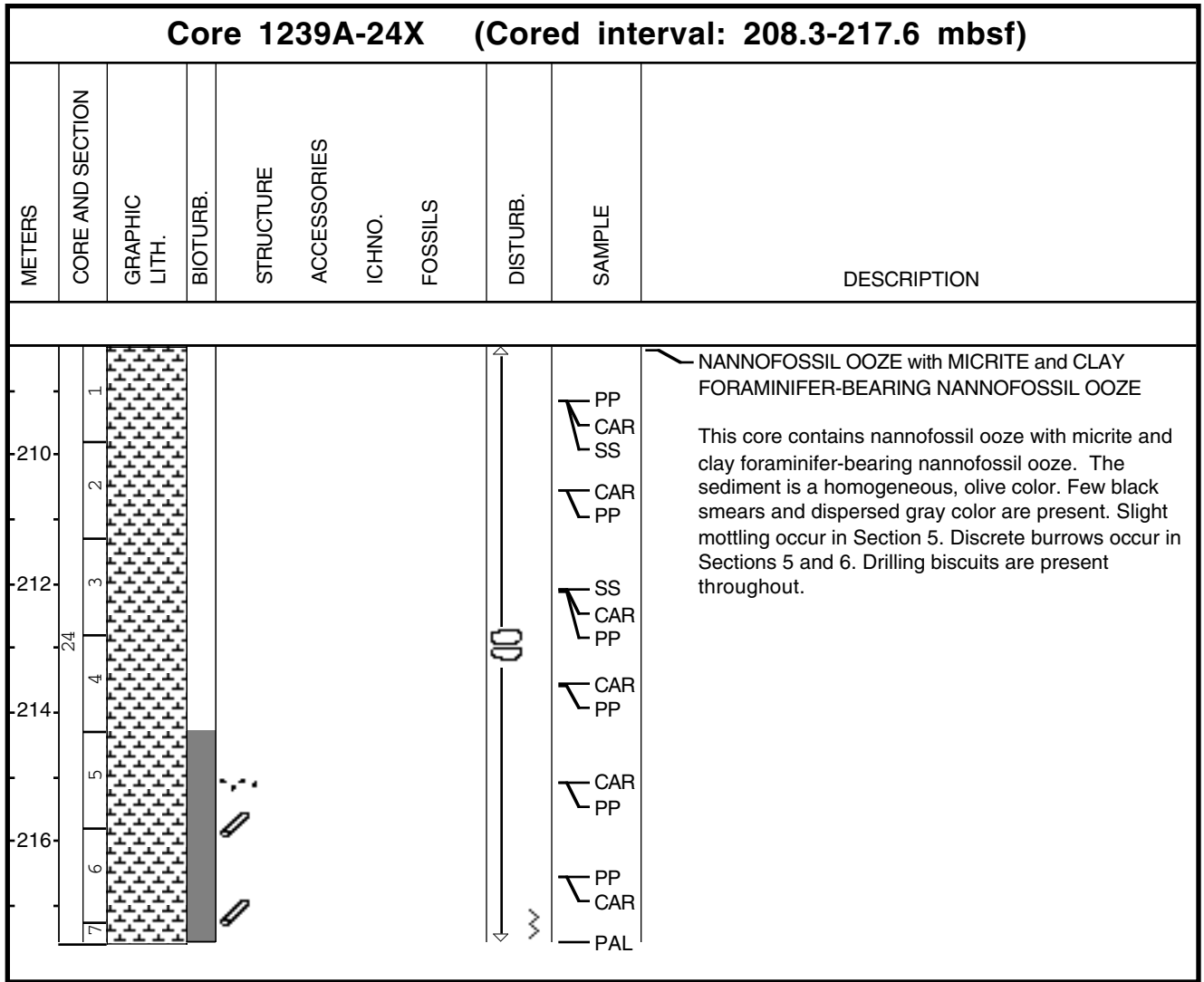
Core Photo



Core Photo



Core Photo



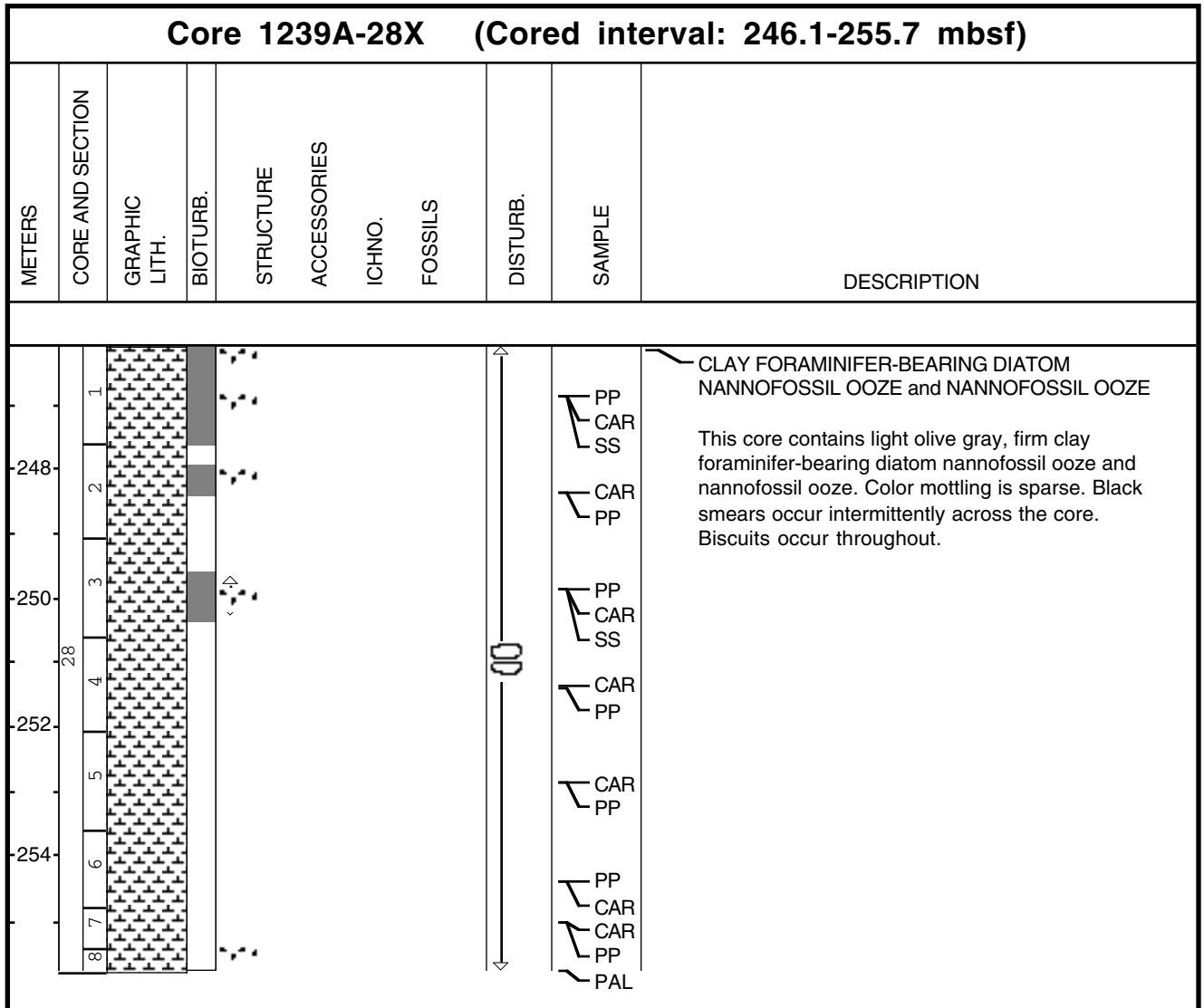
Core Photo

| Core 1239A-25X (Cored interval: 217.6-227.2 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|-----------------|-----------------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 218 | 1 | | | | | | | | PP CAR SS | <p>CLAY DIATOM-BEARING NANNOFOSSIL OOZE and DIATOM FORAMINIFER-BEARING NANNOFOSSIL OOZE</p> <p>This core contains firm, olive clay diatom-bearing nannofossil ooze and diatom foraminifer-bearing nannofossil ooze. The color lightens gradually toward pale olive downcore. A patch of large forams occurs in Section 2, 10 cm. A tiny speck of ash is present in Section 4, 107 cm. The core is biscuited due to coring and contains infrequent color mottles.</p> |
| 220 | 2 | | | | | | | CAR PP | | |
| 222 | 3 | | | | | | | PP CAR SS | | |
| 224 | 4 | | | | | | | PP CAR | | |
| 226 | 5 | | | | | | | PP CAR | | |
| | 6 | | | | | | | PP CAR | | |
| | 7 | | | | | | | CAR PP | | |
| | 8 | | | | | | | PAL | | |

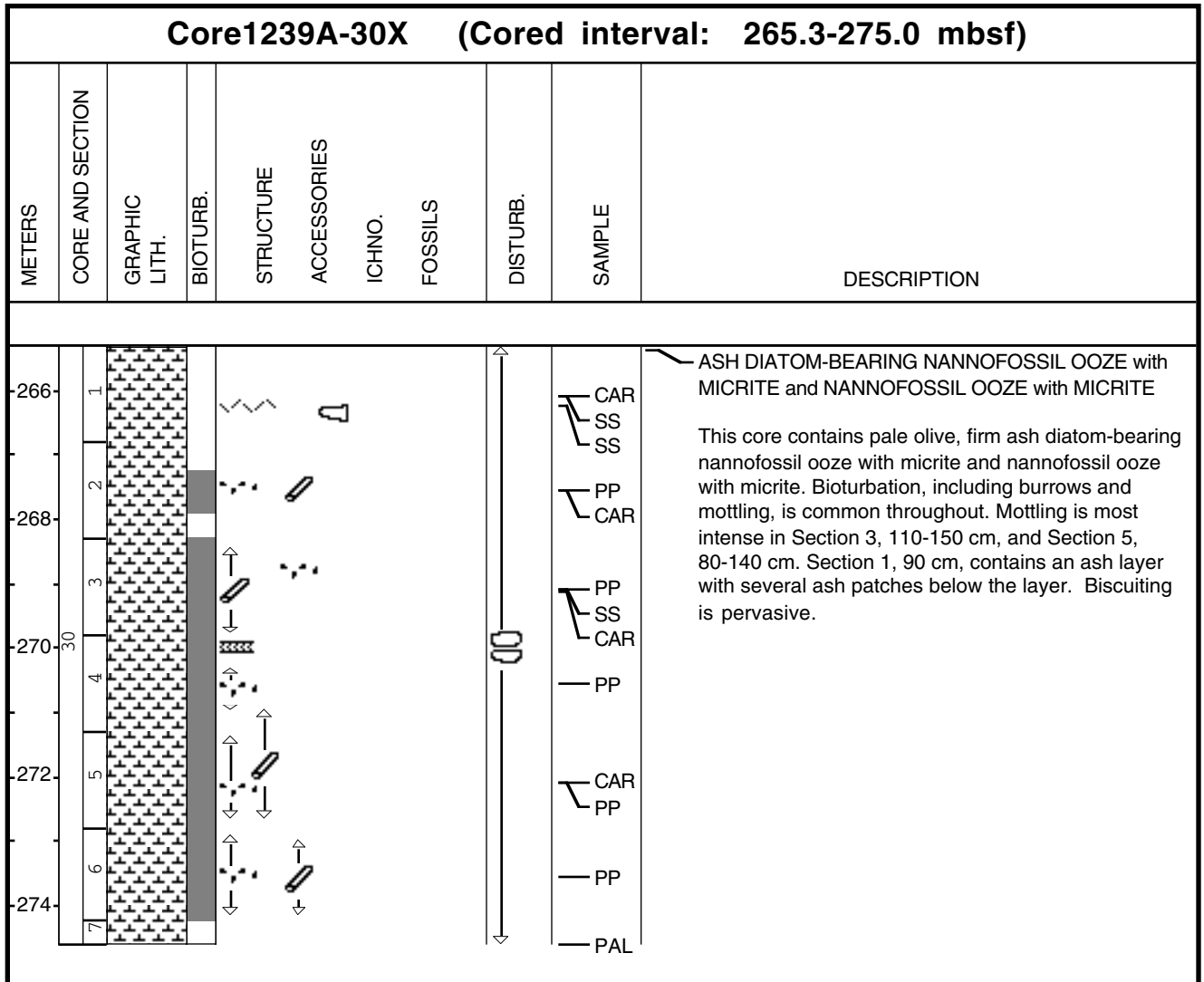
Core Photo

| Core 1239A-27X (Cored interval: 236.5-246.1 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|-----------------------|-----------------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 238 | 1 | [Pattern] | | | | | | | PP CAR SS | <p>NANNOFOSSIL OOZE with MICRITE and FORAMINIFER DIATOM-BEARING NANNOFOSSIL OOZE</p> <p>This core contains nannofossil ooze with micrite and foraminifer diatom-bearing nannofossil ooze. The sediment is homogeneous and firm with gradual color changes between pale olive, light gray, and olive. Color mottling is rare. Biscuiting occurs throughout.</p> |
| 240 | 2 | [Pattern] | | | | | | CAR PP | | |
| 242 | 3 | [Pattern] | | | | | | PP SS CAR IW | | |
| 244 | 4 | [Pattern] | | | | | | PP CAR | | |
| 246 | 5 | [Pattern] | | | | | | PP CAR | | |
| | 6 | [Pattern] | | | | | | PP CAR | | |
| | 7 | [Pattern] | | | | | | PP CAR | | |
| | 8 | [Pattern] | | | | | | PAL | | |

Core Photo



Core Photo



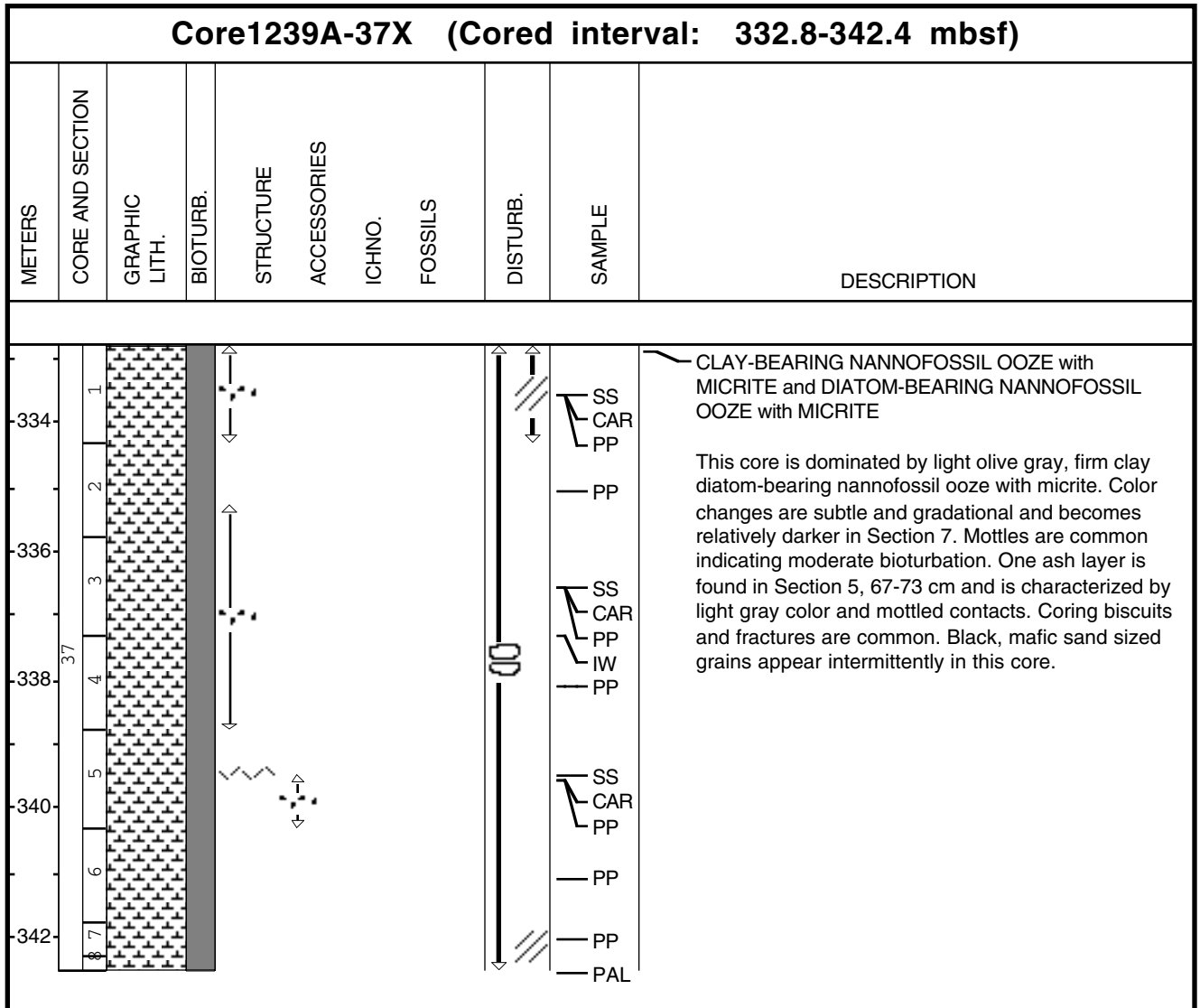
Core Photo

| Core1239A-31X (Cored interval: 275.0-284.6 mbsf) | | | | | | | | | | |
|--|------------------|---------------|----------|-----------|-------------|--------|---------|----------|-----------------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 276 | 1 | [Pattern] | | [Symbol] | | | | | CAR PP | <p>CLAY-BEARING NANNOFOSSIL OOZE with MICRITE and DIATOM-BEARING NANNOFOSSIL OOZE with MICRITE</p> <p>This core contains clay-bearing nannofossil ooze with micrite and diatom-bearing nannofossil ooze with micrite. The sediment is firm and color varies between pale olive to olive in ~m-scale intervals. Bioturbation, as mottles and burrows, is common. Section 2, 90-150, Section 3, 55-80, and Section 4, 80-90 cm, are all intervals containing intense bioturbation. Black, mafic, sand grains and biscuits are present throughout.</p> |
| 278 | 2 | [Pattern] | | [Symbol] | | | | | PP | |
| | 3 | [Pattern] | | [Symbol] | | | | | CAR PP IW | |
| 280 | 4 | [Pattern] | | [Symbol] | | | | | PP | |
| 282 | 5 | [Pattern] | | [Symbol] | [Symbol] | | | | PP CAR | |
| | 6 | [Pattern] | | [Symbol] | | | | | PP | |
| 284 | 7 | [Pattern] | | [Symbol] | | | | | PP | |
| | 8 | [Pattern] | | [Symbol] | | | | | PAL | |

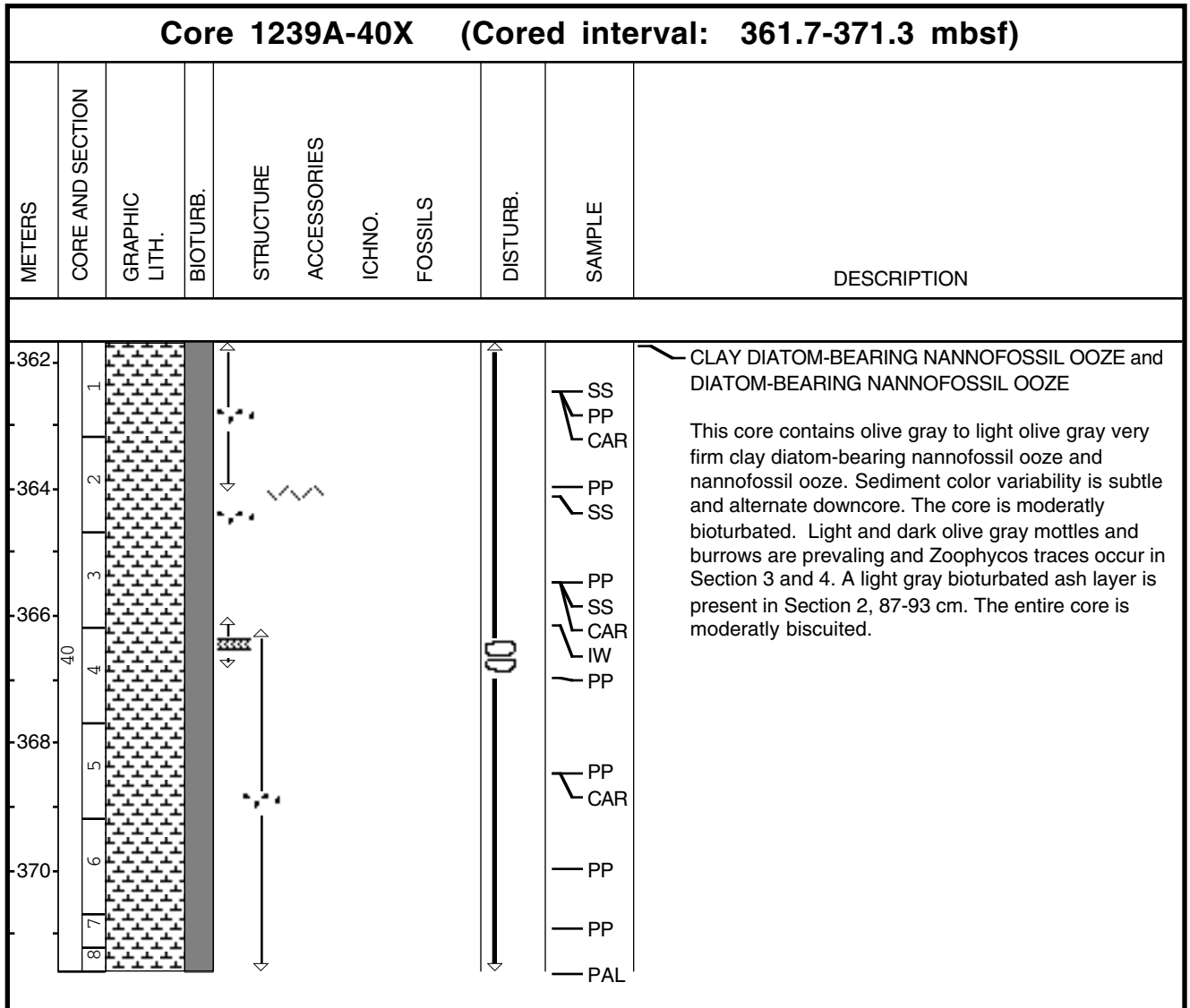
Core Photo

| Core 1239 A-32X (Cored interval: 284.6-294.3 mbsf) | | | | | | | | | | |
|--|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 286 | 1 | | | | | | | | | <p>NANNOFOSSIL OOZE with MICRITE and CLAY DIATOM-BEARING NANNOFOSSIL OOZE with MICRITE</p> <p>This core contains nannofossil ooze with micrite and clay diatom-bearing nannofossil ooze with micrite. The sediment is light olive gray with little variability. Mottles and small burrows are moderate to common. Sand-sized mafic grains are dispersed throughout. Biscuiting is pervasive.</p> |
| 288 | 2 | | | | | | | | | |
| | 3 | | | | | | | | | |
| 290 | 4 | | | | | | | | | |
| | 5 | | | | | | | | | |
| 292 | 6 | | | | | | | | | |
| | 7 | | | | | | | | | |

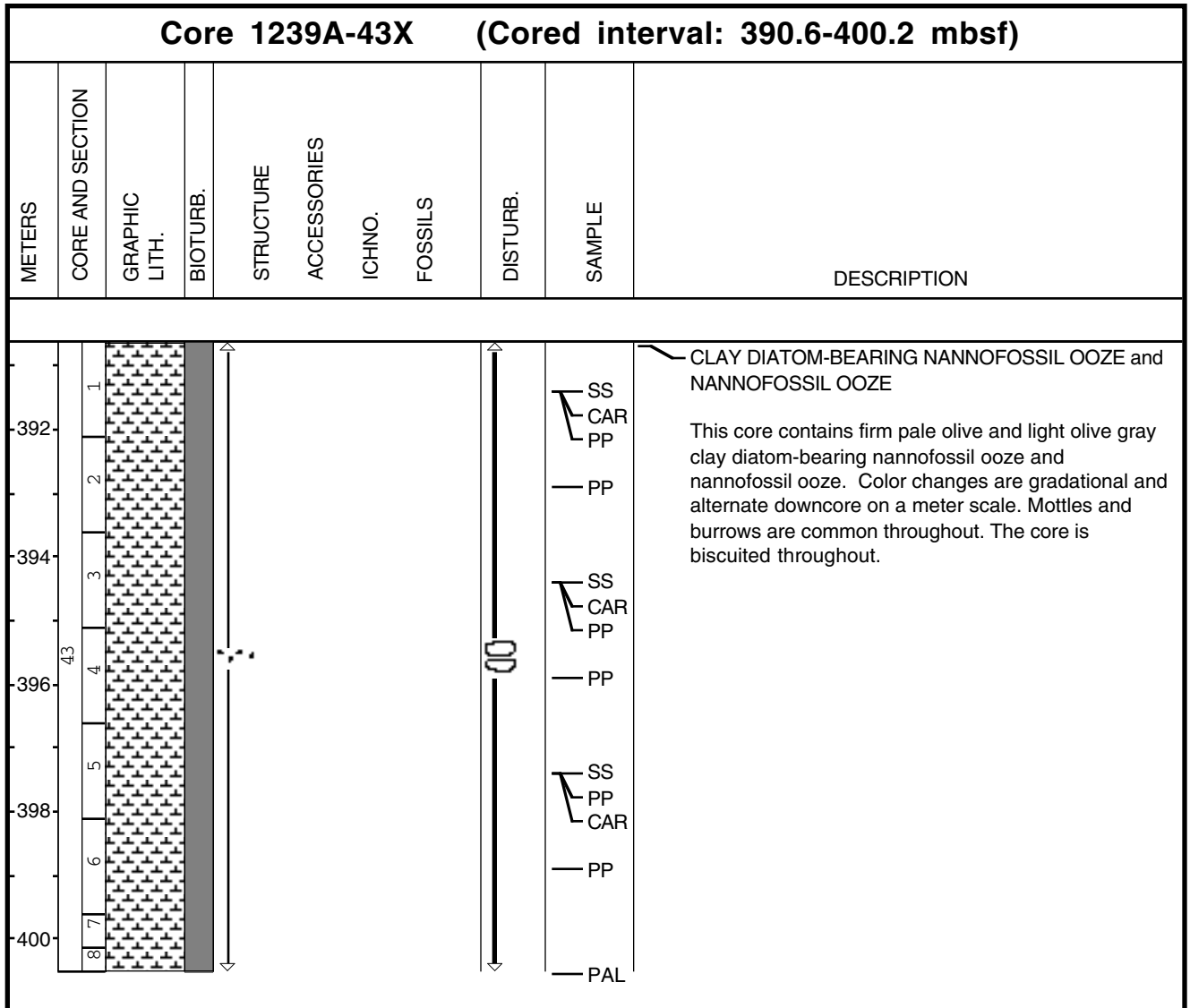
Core Photo



Core Photo



Core Photo



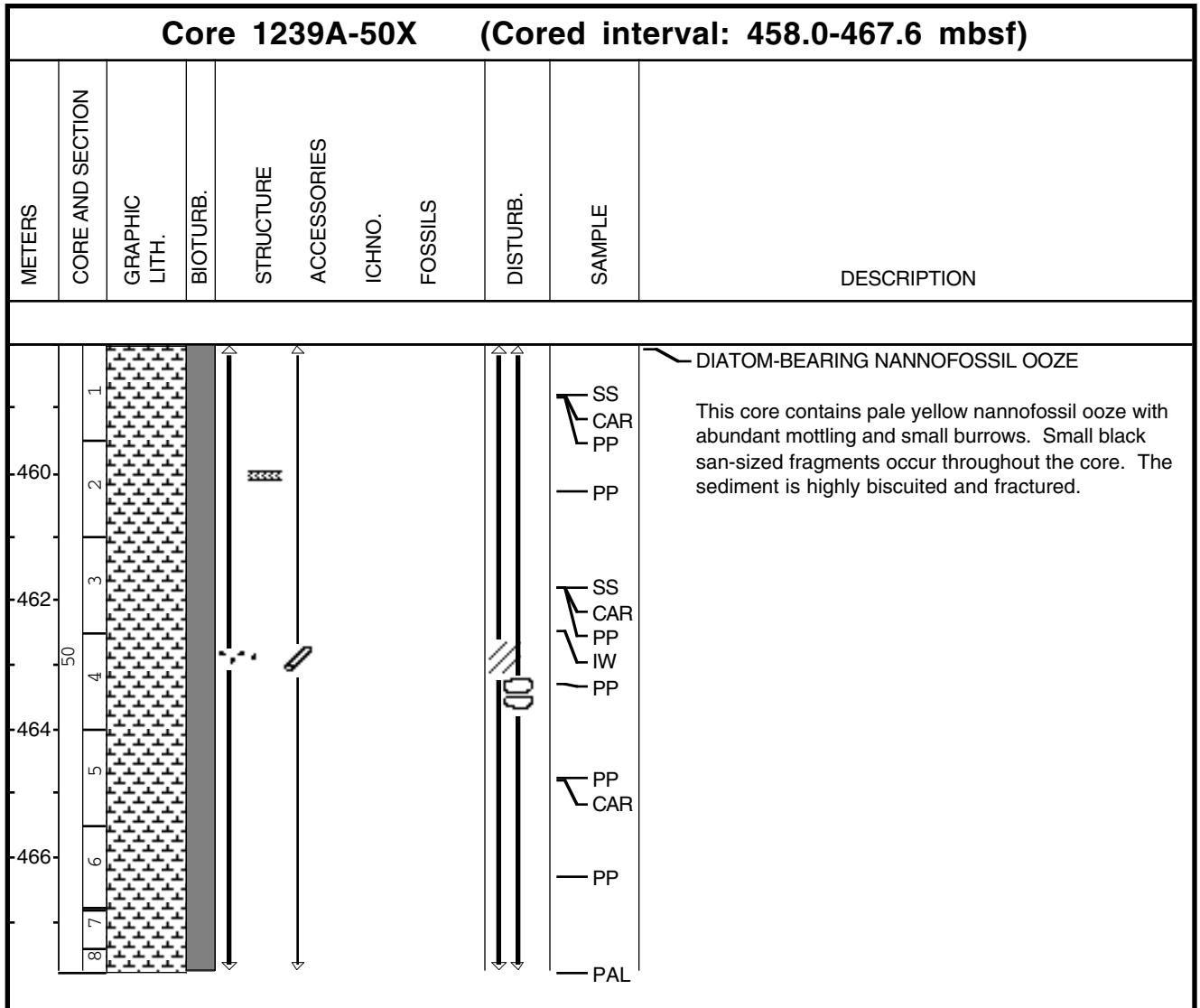
Core Photo

| Core 1239A-47X (Cored interval: 429.0-438.7 mbsf) | | | | | | | | | | |
|---|------------------|-------------------------|----------|-----------|-------------|--------|---------|----------|--------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 430 | 1 | [Cross-hatched pattern] | | | | | | | | <p>DIATOM-BEARING NANNOFOSSIL OOZE</p> <p>The top five sections of this core contain well compacted, pale olive nannofossil ooze with small burrows and color mottles present throughout the core. Disparate black sand grains are present through Section 5, 43 cm. A sand-sized layer of nannofossil ooze occurs between 43 and 70 cm in Section 5. Some very dark clasts are present (mafic?) and parallel bedding is present. Below 70 cm, in Section 5, a carbonate breccia is present. The grains/mudclasts in the top 9 cm of the breccia are oriented and become increasingly unorganized downcore. Some of the mudstone fragments are rounded and the sediment is highly compacted. Between 22 and 41 cm in Section 7, a white interval occurs with sharp basal and upper contacts. A large mud clast, or the end of the carbonate breccia, occurs at the base of Section 7. The core catcher contains carbonate breccia. The sediment in this core is highly biscuited and fractured.</p> |
| 432 | 2 | [Cross-hatched pattern] | | | | | | | | |
| 434 | 3 | [Cross-hatched pattern] | | | | | | | | |
| 434 | 4 | [Cross-hatched pattern] | | | | | | | | |
| 436 | 5 | [Cross-hatched pattern] | | | | | | | | |
| 436 | 6 | [Cross-hatched pattern] | | | | | | | | |
| 438 | 7 | [Cross-hatched pattern] | | | | | | | | |
| 438 | 8 | [Cross-hatched pattern] | | | | | | | | |

Core Photo

| Core 1239A-49X (Cored interval: 448.3-458.0 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|----------|-----------------------------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 450 | 1 | [Pattern] | | | | | | | | <p>DIATOM-BEARING NANNOFOSSIL OOZE</p> <p>This core contains highly compacted pale yellow and light gray nannofossil ooze. Color changes are gradational and the light gray color is only present in Sections 2, 7, and the core catcher. Small mottles are present throughout the core. Section 3, 106-122, contains traces of large burrows (>1 cm). The sediment in this core is highly biscuited and fractured.</p> |
| 452 | 2 | [Pattern] | | | | | | | SS PP CAR | |
| | 3 | [Pattern] | | | | | | | PP | |
| 454 | 4 | [Pattern] | | | | | | | SS CAR PP IW PP | |
| | 5 | [Pattern] | | | | | | | CAR PP | |
| 456 | 6 | [Pattern] | | | | | | | PP | |
| | 7 | [Pattern] | | | | | | | | |
| 458 | 8 | [Pattern] | | | | | | | PAL | |

Core Photo



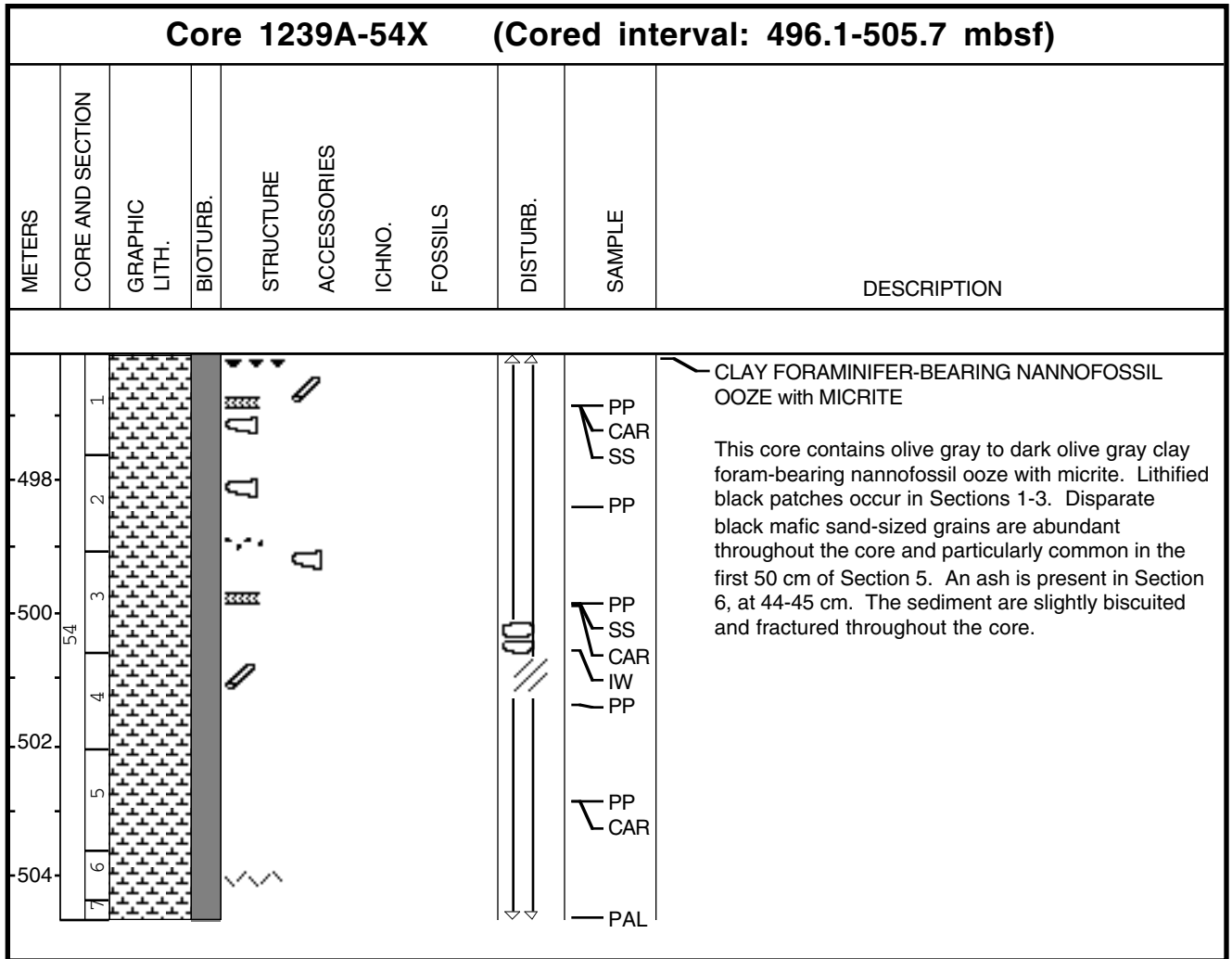
Core Photo

| Core 1239A-51X (Cored interval: 467.6-477.2 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|----------|-----------------------------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 468 | 1 | [Pattern] | | | | | | | | <p>DIATOM-BEARING NANNOFOSSIL OOZE</p> <p>This core contains mottled and bioturbated light gray to pale olive gray diatom-bearing nannofossil ooze. Dark sand-sized mafic grains are common throughout. Mottling is particularly intense in Section 3, 130 cm to Section 4, 45 cm, Section 5, 105-125 cm and the top of Section 6. Some burrows are visible and a burrow in Section 4 is surrounded by a black rim. Mud clasts or breccia occur at the base of Section 4, the top of Section 5, and in Section 6, 102-110 cm. Biscuiting of the sediment is slight and some fracturing has also occurred.</p> |
| 470 | 2 | [Pattern] | | | | | | | PP SS CAR | |
| 472 | 3 | [Pattern] | | | | | | | PP | |
| 474 | 4 | [Pattern] | | | | | | | CAR SS PP IW PP | |
| 476 | 5 | [Pattern] | | | | | | | PP | |
| | 6 | [Pattern] | | | | | | | CAR PP | |
| | 7 | [Pattern] | | | | | | | PP | |
| | 8 | [Pattern] | | | | | | | PAL | |

Core Photo

| Core 1239A-53X (Cored interval: 486.5-496.1 mbsf) | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | DESCRIPTION |
| | | | | ICHNO. | FOSSILS | |
| | | | | | | |
| 488 | 53 1 | | | | | <p>FORAMINIFER NANNOFOSSIL OOZE</p> <p>This core contains light gray to pale yellow foraminifer nannofossil ooze. The sediment color becomes darker downcore. Mottles and burrows are common in Sections 1 and 2 and are less common after Section 3. Section 4 and the top of the core catcher contains more highly lithified green chlorite-rich layers. Black mafic sand-sized grains increase in size and abundance downcore and the core catcher contains 20 cm of rock fragments. The sediment is slightly biscuited and fractured, especially in Section 1.</p> |
| | 2 | | | | | |
| 490 | 3 | | | | | |
| | 4 | | | | | |
| | 5 | | | | | |
| | | | | | | <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> |

Core Photo



Core Photo

| Core 1239A-55X (Cored interval: 505.7-515.4 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 506 | 1 | | | | | | | | | <p>CLAY FORAMINIFER-BEARING NANNOFOSSIL OOZE with MICRITE</p> <p>This core contains firm clay foraminifer-bearing nannofossil ooze with micrite. Sediment color vary between dark brown olive and dark gray with abrupt and sharp color changes. In the core catcher there is a sharp contact at 23 cm between dark olive brown clay foraminifer-bearing nannofossil ooze above and black lithified mafic sand below. Black sand-sized mafic grains is disperesd throughout the core. The core is biscuited and fractured throughout.</p> |
| 508 | 2 | | | | | | | | | |
| 55 | 3 | | | | | | | | | |
| 510 | 4 | | | | | | | | | |
| | 5 | | | | | | | | | |
| 512 | 6 | | | | | | | | | |

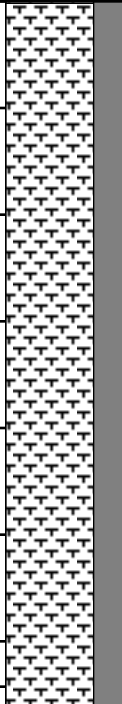

















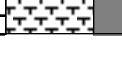


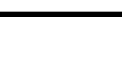


Core Photo

| Core 1239B-1H (Cored interval: 0.0-7.8 mbsf) | | | | | | | |
|--|------------------|-------------------------|-----------------|-----------------------|------------------|----------------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE ACCESSORIES | ICHNO. | FOSSILS | DISTURB. SAMPLE DESCRIPTION |
| 0 | 1 | [Cross-hatched pattern] | [Vertical line] | [Wavy lines] | [Dotted pattern] | [Small shapes] | <p>CLAY NANNOFOSSIL-BEARING FORAMINIFER OOZE</p> <p>This core contains firm and homogeneous clay nannofossil-bearing foraminifer ooze. Color vary between olive gray and olive with subtle and gradational color changes throughout. Bioturbation is moderate throughout with mottles, burrows and Zoophycos traces. Section 1 is wet and soupy. A light gray, bioturbated ash patch is present in Section 4, 87-92 cm. A light gray ash layer is present in Section 5, 85-107 cm. This layer has a sharp base and a bioturbated top. Ash patches and mottles occur below and above the ash layer.</p> |
| 1 | 2 | [Cross-hatched pattern] | [Vertical line] | [Wavy lines] | [Dotted pattern] | [Small shapes] | |
| 2 | 3 | [Cross-hatched pattern] | [Vertical line] | [Wavy lines] | [Dotted pattern] | [Small shapes] | |
| 3 | 4 | [Cross-hatched pattern] | [Vertical line] | [Wavy lines] | [Dotted pattern] | [Small shapes] | |
| 4 | 5 | [Cross-hatched pattern] | [Vertical line] | [Wavy lines] | [Dotted pattern] | [Small shapes] | |
| 5 | 6 | [Cross-hatched pattern] | [Vertical line] | [Wavy lines] | [Dotted pattern] | [Small shapes] | |

Core Photo

| Core 1239B-2H (Cored interval: 7.8-17.3 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 10 | 1 | | | | | | | | | <p>CLAY NANNOFOSSIL-BEARING FORAMINIFER OOZE</p> <p>This core contains firm and homogeneous clay nannofossil-bearing foraminifer ooze. Color vary between olive gray and olive throughout with subtle and gradational color changes. Bioturbation is moderate to common with horizontal and vertical burrows, light and dark olive gray mottles and Zoophycos traces throughout. A light gray ash patch is present in Section 3 at 27 cm and in Section 4 at 104 cm. A light gray bioturbated ash layer is present in Section 4, 90-98 cm.</p> |
| 12 | 2 | | | | | | | | | |
| 14 | 3 | | | | | | | | | |
| 16 | 4 | | | | | | | | | |
| | 5 | | | | | | | | | |
| | 6 | | | | | | | | | |
| | 7 | | | | | | | | | |
| | 8 | | | | | | | | | |

Core Photo

| Core 1239B-3H (Cored interval: 17.3-26.8 mbsf) | | | | | | | | | | |
|--|------------------|---|----------|---|---|---|---------|----------|--------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 18- | 1 |  | |  | | | | | | <p>CLAY NANNOFOSSIL-BEARING FORAM OOZE</p> <p>The lithology of this core is dominated by olive gray to light olive gray clay nonnofossil-bearing foram ooze. Color changes are subtle and gradational and become darker in Section 3. The core is very moist and foraminifer tests are visible on the sediment surface. Shell fragments and silty patches occur throughout. Abundant Zoophycos burrows occur in Sections 1, 2, 6, and 7. Mottles and borrows are observed throughout the core. Hydrogen sulfide gas was released during core splitting.</p> |
| 20- | 2 |  | |  |  | | | | | |
| 22- | 3 |  | |  |  |  | | | | |
| 24- | 4 |  | |  |  | | | | | |
| 26- | 5 |  | |  |  | | | | | |
| | 6 |  | |  |  | | | | | |
| | 7 |  | |  |  | | | | | |
| | 8 |  | |  |  | | | | | |

Core Photo

| Core 1239B-4H (Cored interval: 26.8-36.3 mbsf) | | | | | | | | | | |
|--|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 28 | 1 | | | | | | | | | <p>CLAY NANNOFOSSIL-BEARING FORAM OOZE</p> <p>The lithology of this core is dominated by olive gray to light olive gray clay nonnofossil-bearing foram ooze. Color changes are subtle and gradational. Color are slightly darker in Sections 1 and 6. Shell fragments and silty patches occur throughout. Abundant Zoophycos burrows occur in Sections 1, 2, 5, and 6. Mottles and borrows are observed throughout the core. Hydrogen sulfide gas was released during core splitting. Fissures due to degassing occur in Sections 4 and 7.</p> |
| | 2 | | | | | | | | | |
| 30 | 3 | | | | | | | | | |
| | 4 | | | | | | | | /// | |
| 32 | 4 | | | | | | | | | |
| | 5 | | | | | | | | | |
| 34 | 6 | | | | | | | | | |
| | 7 | | | | | | | | /// | |
| 36 | 8 | | | | | | | | | |

Core Photo

| Core 1239B-5H (Cored interval: 36.3-45.8 mbsf) | | | | | | | | | | |
|--|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 38 | 1 | | | | | | | | | <p>CLAY NANNOFOSSIL-BEARING FORAM OOZE</p> <p>This core contains olive to olive gray clay nannofossil-bearing foram ooze. The color changes are gradational, and alternate over meter-scales. Olive sediment occurs in Section 2, 50-80 cm and most of Sections 5 and 6. The rest of the sediment is primarily olive. Bioturbation is common, and the entire core is burrowed and mottled. Some of the burrows have paler green halos surrounding them. Sulfides are scattered in mm-scale patches on the surface, particularly in Section 1 and in Section 6, 100-140 cm. The patches often feel silty, and in some cases appear to be smeared along the core during splitting. The core stinks to high heaven of rotten eggs.</p> |
| 40 | 2 | | | | | | | | | |
| 42 | 3 | | | | | | | | | |
| 44 | 4 | | | | | | | | | |
| 46 | 5 | | | | | | | | | |
| | 6 | | | | | | | | | |
| | 7 | | | | | | | | | |
| | 8 | | | | | | | | | |

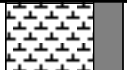

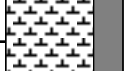

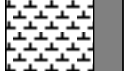

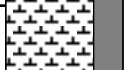

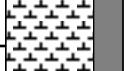

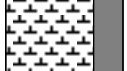

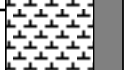

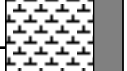

Core Photo

| Core 1239B-6H (Cored interval: 45.8-55.3 mbsf) | | | | | | | | | | |
|--|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 48 | 1 | | | | | | | | | <p>CLAY FORAMINIFER-BEARING NANNOFOSSIL OOZE</p> <p>The lithology of this core is dominated by olive gray to light olive gray clay foraminifer-bearing nannofossil ooze. Color changes are subtle and gradational. Abundant Zoophycos burrows occur in Sections 1 and 3. One layer of dark gray volcanic ash with diffuse top and bottom contacts is found in Section 3, 31-43 cm. A green layer occurs in Section 6, 107-110 cm. Mottles and vertical borrows are frequently observed and are especially abundant in Sections 4 and 6. Some of the burrows are filled in by silty material. FeS occurs as black grains on the surface and hydrogen sulfide gas was released during core splitting.</p> |
| | 2 | | | | | | | | | |
| | 3 | | | | | | | | | |
| | 4 | | | | | | | | | |
| | 5 | | | | | | | | | |
| | 6 | | | | | | | | | |
| | 7 | | | | | | | | | |
| | 8 | | | | | | | | | |

Core Photo

| Core 1239B-7H (Cored interval: 55.3-64.8 mbsf) | | | | | | | | | | |
|--|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 56- | 1 | | | | | | | | | <p>CLAY-BEARING NANNOFOSSIL OOZE</p> <p>This core contains firm olive gray clay-bearing nannofossil ooze. The core is bioturbated throughout with ample mottles and burrows. Section 3, 121-124 cm and Section 6, 63-77 cm contain light gray bioturbated ash layers.</p> |
| 58- | 2 | | | | | | | | | |
| | 3 | | | | | | | | | |
| 60- | 4 | | | | | | | | | |
| 62- | 5 | | | | | | | | | |
| | 6 | | | | | | | | | |
| 64- | 7 | | | | | | | | | |
| | 8 | | | | | | | | | |

Core Photo

| Core 1239B-8H (Cored interval: 64.8-74.3 mbsf) | | | | | | | | | | |
|--|------------------|---|----------|---|-------------|--------|---------|----------|--------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 66 | 1 |  | |  | | | | | | <p>CLAY-BEARING NANNOFOSSIL OOZE</p> <p>The lithology of this core is dominated by olive gray to light olive gray clay-bearing nannofossil ooze. Color changes are subtle and gradational. Abundant Zoophycos burrows occur in Section 1. One interval with dark gray volcanic ash layer (very diffuse) occurs in Section 2, 110-150 cm. Mottles and vertical borrows are observed throughout, and some of the burrows are filled in by silty material. Section 4 is relatively homogenous and is characterized by less mottles. FeS occurs as black grains on the surface of some sections and hydrogen sulfide gas was released during core splitting.</p> |
| 68 | 2 |  | |  | | | | | | |
| | 3 |  | |  | | | | | | |
| 70 | 4 |  | |  | | | | | | |
| 72 | 5 |  | |  | | | | | | |
| | 6 |  | |  | | | | | | |
| | 7 |  | |  | | | | | | |
| 74 | 8 |  | |  | | | | | | |

Core Photo

| Core 1239B-9H (Cored interval: 74.3-83.8 mbsf) | | | | | | | | | | |
|--|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 76 | 1 | [Pattern] | | [Symbol] | | | | | | <p>NANNOFOSSIL OOZE with MICRITE and DIATOM-BEARING NANNOFOSSIL OOZE</p> <p>This core contains nannofossil ooze with micrite and diatom-bearing nannofossil ooze. Sediment color vary between olive to olive gray with moderate color mottling. Discrete burrows, including Zoophycos traces occur throughout. Section 4, 58-69 cm and 80-116, are intensely mottled intervals. A disseminated ash layer occur between 109 and 113 cm in Section 4. An ash patch occur below the irregular layer at 130 cm. The uppermost 18 cm of the core are disturbed by coring.</p> |
| 78 | 2 | [Pattern] | | [Symbol] | | | | | | |
| | 3 | [Pattern] | | [Symbol] | | | | | | |
| 80 | 4 | [Pattern] | | [Symbol] | | | | | | |
| | 5 | [Pattern] | | [Symbol] | | | | | | |
| 82 | 6 | [Pattern] | | [Symbol] | | | | | | |
| | 7 | [Pattern] | | [Symbol] | | | | | | |
| 84 | 8 | [Pattern] | | [Symbol] | | | | | | |

Core Photo

| Core 1239B-10H (Cored interval: 83.8-93.3 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 86 | 1 | | | | | | | | | <p>CLAY-BEARING DIATOM NANNOFOSSIL OOZE with MICRITE, DIATOM NANNOFOSSIL OOZE, and NANNOFOSSIL OOZE</p> <p>This core contains dark olive to olive, homogenous clay-bearing diatom nannofossil ooze with micrite, diatom nannofossil ooze and nannofossil ooze. Mottles and preserved burrow traces are sparse. Patches of foraminifers occur in Section 1, 112-120 cm, and Section 5, 37 cm. A small patch of ash is present in Section 2, 79 cm.</p> |
| 87 | 2 | | | | | | | | | |
| 88 | 3 | | | | | | | | | |
| 89 | 4 | | | | | | | | | |
| 90 | 5 | | | | | | | | | |
| 91 | 6 | | | | | | | | | |
| 92 | 7 | | | | | | | | | |
| 93 | 8 | | | | | | | | | |

Core Photo

| Core 1239B-11H (Cored interval: 93.3-102.8 mbsf) | | | | | | | | | | |
|--|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 94 | 1 | | | | | | | | | <p>DIATOM-BEARING NANNOFOSSIL OOZE and FORAMINIFER DIATOM-BEARING NANNOFOSSIL OOZE with MICRITE</p> <p>This core contains diatom-bearing nannofossil ooze and foraminifer diatom-bearing nannofossil ooze with micrite. The sediment is homogeneous and firm. Sediment color is dark olive gray and lightens to olive/pale olive towards the base. Sparse burrows, mottles and Zoophycos traces occur intermittently downcore. An interval of intense mottling is present at in Section 1, 104-114 cm.</p> |
| 96 | 2 | | | | | | | | | |
| 98 | 3 | | | | | | | | | |
| 100 | 4 | | | | | | | | | |
| 102 | 5 | | | | | | | | | |
| | 6 | | | | | | | | | |
| | 7 | | | | | | | | | |
| | 8 | | | | | | | | | |

Core Photo

| Core 1239B-12H (Cored interval: 104.8-114.3 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 106 | 1 | | | | | | | | | <p>SPICULE-BEARING NANNOFOSSIL OOZE and DIATOM NANNOFOSSIL OOZE with MICRITE</p> <p>This core contains firm, homogeneous spicule-bearing nannofossil ooze and diatom nannofossil ooze with micrite. Sediment color varies from dark olive gray to olive and pale olive. Color mottling is very subtle. Burrows, including Zoophycos traces, are present. The dark olive and pale olive intervals are burrow-rich. A dark gray ash layer is present in Section 6, 19-20 cm.</p> |
| 108 | 2 | | | | | | | | | |
| | 3 | | | | | | | | | |
| 110 | 4 | | | | | | | | | |
| 112 | 5 | | | | | | | | | |
| | 6 | | | | | | | | | |
| | 7 | | | | | | | | | |
| 114 | 8 | | | | | | | | | |

Core Photo

| Core 1239B-14H (Cored interval: 123.8-133.3 mbsf) | | | | | | | | | | |
|---|--------------------------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 126 128 130 132 | 1 2 3 4 5 6 7 8 | | | | | | | | | <p>CLAY DIATOM FORAMINIFER-BEARING NANNOFOSSIL OOZE with MICRITE and NANNOFOSSIL OOZE</p> <p>This core is dominated by firm, homogenous clay diatom foraminifer-bearing nannofossil ooze with micrite and nannofossil ooze. Sediment color changes are subtle, ranging from olive to dark olive gray. Bioturbation and mottling are common throughout. Some few Zoophycos traces and vertical burrows are present.</p> |

Core Photo

| Core 1239B-15H (Cored interval: 133.3-142.8 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 134 | 1 | | | | | | | | | <p>DIATOM-BEARING NANNOFOSSIL OOZE with MICRITE and DIATOM FORAMINIFER-BEARING NANNOFOSSIL OOZE</p> <p>This core contains firm, homogeneous diatom-bearing nannofossil ooze with micrite and diatom foraminifer-bearing nannofossil ooze. Sediment color is light and dark olive with slight gradual color changes. Bioturbation is moderate throughout the core. Mottles and burrows are present in all sections and especially intense in Sections 1 and Section 6. Zoophycos traces are present in Section 2 and Section 4.</p> |
| 136 | 2 | | | | | | | | | |
| 138 | 3 | | | | | | | | | |
| 140 | 4 | | | | | | | | | |
| 142 | 5 | | | | | | | | | |
| | 6 | | | | | | | | | |
| | 7 | | | | | | | | | |
| | 8 | | | | | | | | | |

Core Photo

| Hole 1239B-16H (Cored interval: 142.8-152.3 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 144 | 1 | | | | | | | | | <p>CLAY DIATOM-BEARING NANNOFOSSIL OOZE with MICRITE</p> <p>This core contains firm clay diatom-bearing nannofossil ooze with micrite. Sediment color vary between pale olive, olive and pale yellow with subtle and gradational color changes throughout. Bioturbation is moderate throughout with color mottles and burrows. Section 6, 71-75 cm contains light gray ash patches and between 100-103 cm contains a white very bioturbated ash layer.</p> |
| 146 | 2 | | | | | | | | | |
| 148 | 3 | | | | | | | | | |
| 150 | 4 | | | | | | | | | |
| 152 | 5 | | | | | | | | | |
| | 6 | | | | | | | | | |
| | 7 | | | | | | | | | |
| | 8 | | | | | | | | | |

Core Photo

| Core 1239B-17H (Cored interval: 152.3-161.8 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 154 | 1 | | | | | | | | | <p>CLAY-BEARING NANNOFOSSIL OOZE with MICRITE</p> <p>This core contains firm and homogeneous clay-bearing nannofossil ooze with micrite. Color vary between olive and olive gray throughout and all color changes are subtle and gradational. Bioturbation is moderate to common with ample mottles and burrows. Zoophycos traces occur in Section 1, 2 and 4. Ash patches occur in Section 6, 106-118 cm.</p> |
| 156 | 2 | | | | | | | | | |
| 158 | 3 | | | | | | | | | |
| 160 | 4 | | | | | | | | | |
| 162 | 5 | | | | | | | | | |
| | 6 | | | | | | | | | |
| | 7 | | | | | | | | | |
| | 8 | | | | | | | | | |

Core Photo

| Core 1239B-18H (Cored interval: 161.8-171.3 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 164 | 1 | | | | | | | | | <p>DIATOM-BEARING NANNOFOSSIL OOZE with MICRITE</p> <p>This core contains firm, homogeneous diatom-bearing nannofossil ooze with micrite. Sediment color is olive to olive gray with subtle and gradational color changes. Bioturbation is moderate with mottles, burrows and Zoophycos traces.</p> |
| 166 | 2 | | | | | | | | | |
| 168 | 3 | | | | | | | | | |
| 170 | 4 | | | | | | | | | |
| | 5 | | | | | | | | | |
| | 6 | | | | | | | | | |
| | 7 | | | | | | | | | |
| | 8 | | | | | | | | | |

Core Photo

| Core 1239B-19X (Cored interval: 171.3-180.6 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 172 | 1 | | | | | | | | | <p>RADIOLARIAN-BEARING DIATOM OOZE</p> <p>The core is generally homogeneous, dusky yellow in color, with the top 18 cm disturbed by splitting. Modest "biscuits" throughout. Sediment also contains foraminifers, nannofossils, calcite grains, and clay particles.</p> <p>SS</p> |
| 174 | 2 | | | | | | | | | |
| 176 | 3 | | | | | | | | | |
| 178 | 4 | | | | | | | | | |
| 180 | 5 | | | | | | | | | |
| | 6 | | | | | | | | | |
| | 7 | | | | | | | | | |
| | 8 | | | | | | | | | |

Core Photo

| Core 1239B-22X (Cored interval: 200.0-209.6 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 202 | 1 | [Pattern] | | | | | | | | <p>DIATOM-BEARING NANNOFOSSIL OOZE</p> <p>Upper part of the core is mainly dusky yellow, changing downwards to yellowish gray. Light to moderate bioturbation difficult to see because of slight "biscuiting".</p> |
| | 2 | [Pattern] | | | | | | | | |
| 204 | 3 | [Pattern] | | | | | | | | |
| | 4 | [Pattern] | | | | | | | | |
| 206 | 5 | [Pattern] | | | | | | | | |
| | 6 | [Pattern] | | | | | | | | |
| 208 | 7 | [Pattern] | | | | | | | | |
| | 8 | [Pattern] | | | | | | | | |

Core Photo

| Core 1239B-24X (Cored interval: 218.9-228.5 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 220 | 1 | | | | | | | | | <p>DIATOM- AND RADIOLARIAN-BEARING NANNOFOSSIL OOZE</p> <p>The core is dusky yellow in Section 1, becoming darker downwards in Section 2 and deeper. Mainly homogeneous, with moderate mottling and "biscuiting".</p> |
| 222 | 2 | | | | | | | | SS | |
| 224 | 3 | | | | | | | | | |
| 224 | 4 | | | | | | | | | |
| 226 | 5 | | | | | | | | | |
| 226 | 6 | | | | | | | | | |
| 228 | 7 | | | | | | | | | |
| 228 | 8 | | | | | | | | | |

Core Photo

| Core 1239B-25X (Cored interval: 228.5-237.9 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 230 | 1 | | | | | | | | | <p>DIATOM- AND RADIOLARIAN-BEARING NANNOFOSSIL OOZE</p> <p>The core is dusky yellow to grayish yellow in color, moderate mottling and biscuiting throughout. Mottles show best in Section 6.</p> <p>SS</p> |
| 232 | 2 | | | | | | | | | |
| 234 | 3 | | | | | | | | | |
| 236 | 4 | | | | | | | | | |
| | 5 | | | | | | | | | |
| | 6 | | | | | | | | | |
| | 7 | | | | | | | | | |

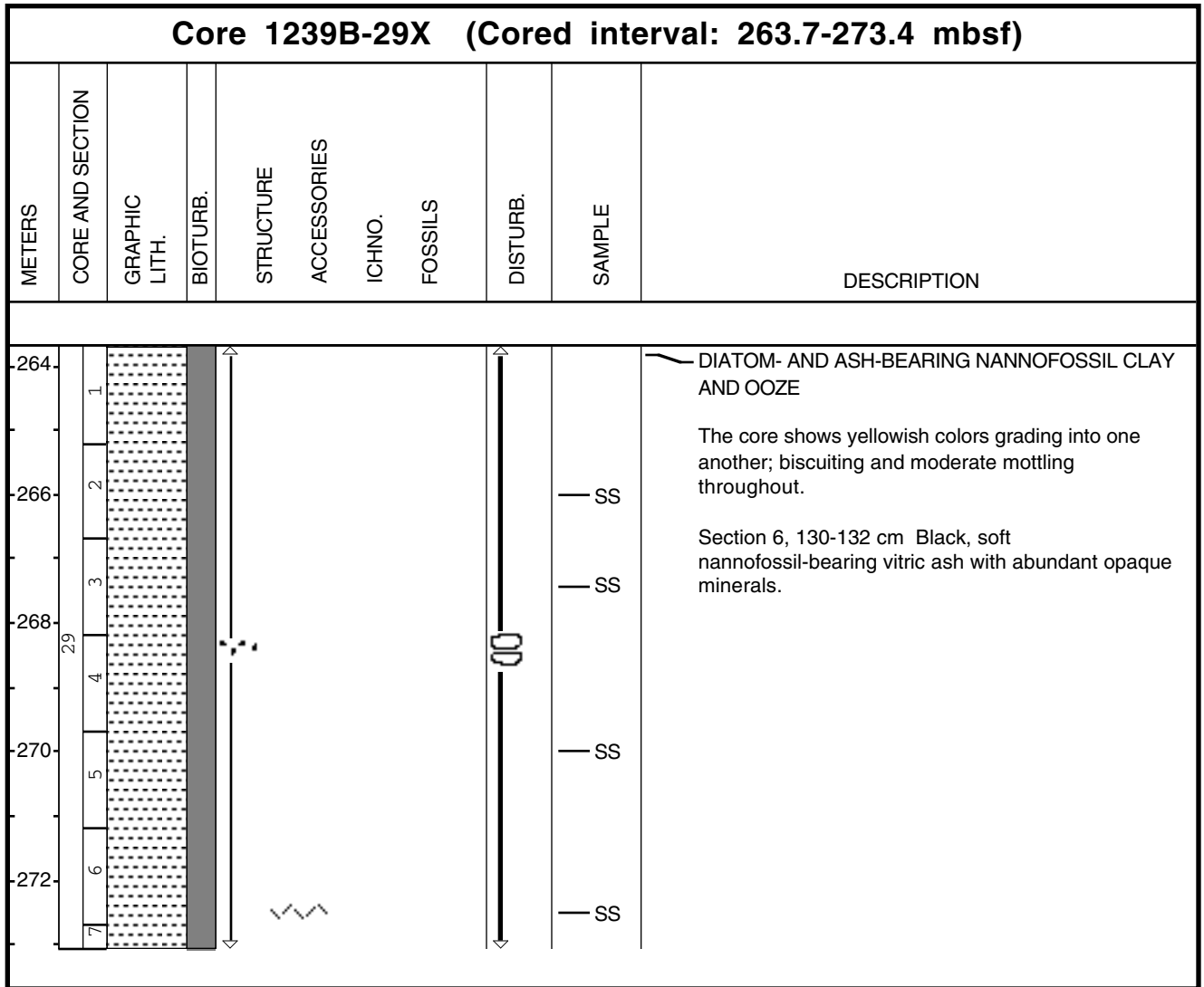
Core Photo

| Core 1239B-27X (Cored interval: 247.5-254.1 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 248 | 1 | | | | | | | | | NANOFOSSIL OOZE TO DIATOM-BEARING NANOFOSSIL OOZE Little variation in the core. Colors rang from dusky yellow to yellowish gray. Biscuits are common in all sections. Mottling throughout, with a large burrow 0.8 mm diamer at the top of Section 3. |
| 250 | 2 | | | | | | | | SS | |
| 252 | 3 | | | | | | | | | |
| 254 | 4 | | | | | | | | | |
| 254 | 5 | | | | | | | | SS | |
| 256 | 6 | | | | | | | | | |

Core Photo

| Core 1239B-28X (Cored interval: 254.1-263.7 mbsf) | | | | | | | | | | |
|---|--------------------------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 256 258 260 262 | 1 2 3 4 5 6 7 8 | | | | | | | | SS | DIATOM-BEARING NANNOFOSSIL OOZE Much of the core is yellowish gray to light olive gray, biscuitied and moderately bioturbated. |

Core Photo



Core Photo

| Core 1239B-30X (Cored interval: 273.4-283.0 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 274 | 1 | | | | | | | | | ASH-, FORAMINIFER- AND DIATOM-BEARING NANNOFOSSIL OOZE The core is yellowish in color ranging from lightest yellowish gray to moderate olive brown. Most of the core is dusky yellow. Core is disturbed and fractured below the middle of Section 2 and biscuited throughout. Burrows are common from Section 2 downwards. |
| 276 | 2 | | | | | | | | | |
| | 3 | | | | | | | | | |
| 278 | 4 | | | | | | | | | |
| | 5 | | | | | | | | | |
| 280 | 6 | | | | | | | | | |
| | 7 | | | | | | | | | |
| 282 | 8 | | | | | | | | | |

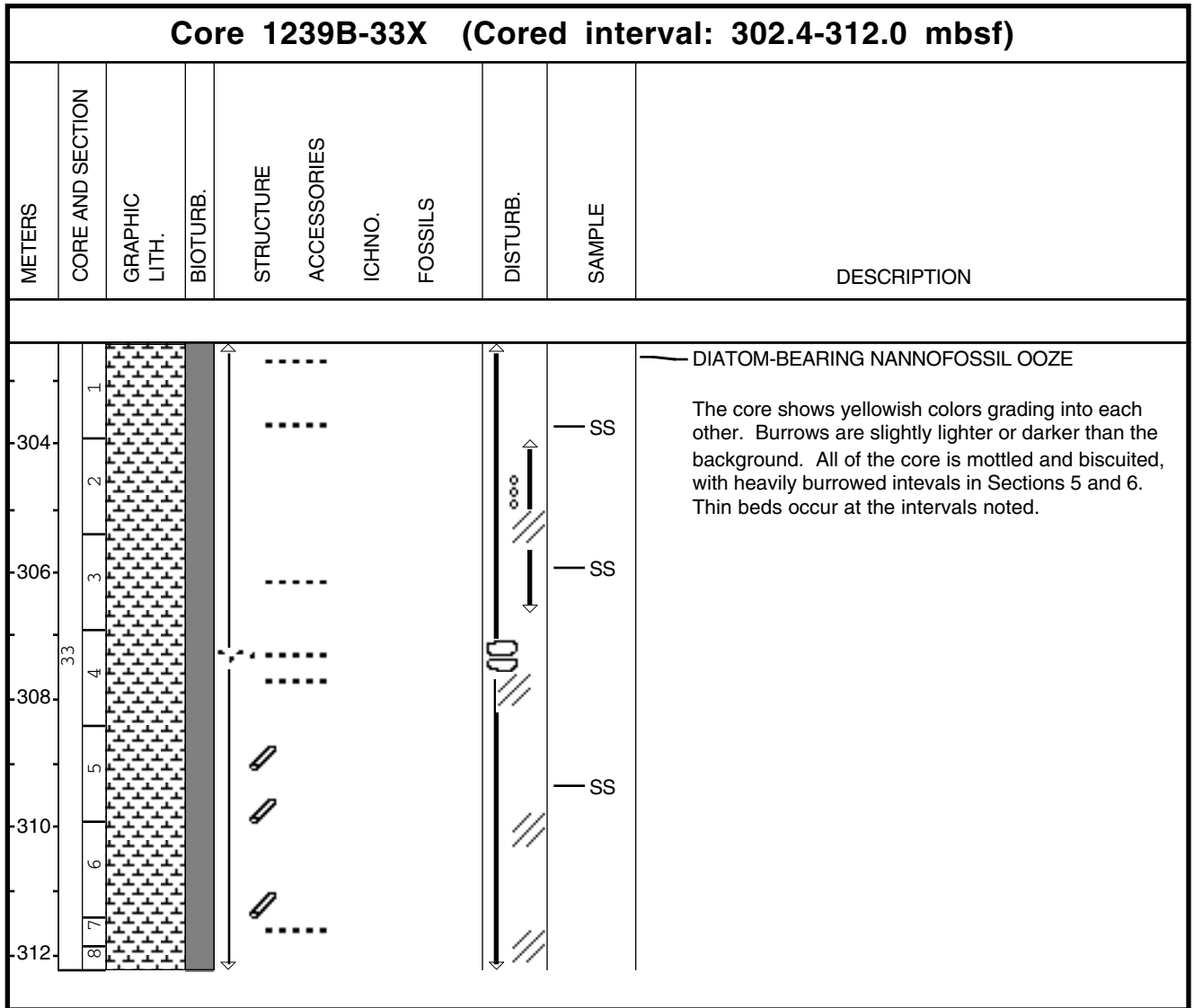
Core Photo

| Core 1239B-31X (Cored interval: 283.0-292.7 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 284 | 1 | | | | | | | | | CLAY- AND DIATOM BEARING NANNOFOSSIL OOZE The core displays yellowish colors grading into one another, mainly dusky yellow. Biscuits and fracturing throughout. Soupy in Section 3. |
| 286 | 2 | | | | | | | | | |
| 288 | 3 | | | | | | | | | |
| 290 | 4 | | | | | | | | | |
| 292 | 5 | | | | | | | | | |
| | 6 | | | | | | | | | |
| | | | | | | | | | | |

Core Photo

| Core 1239B-32X (Cored interval: 292.7-302.4 mbsf) | | | | | | | | | | |
|---|---------------------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 294 296 298 300 302 | 1 2 3 4 5 6 7 | | | | | | | | | <p>DIATOM-BEARING NANNOFOSSIL OOZE</p> <p>The core is homogeneous, mainly yellowish gray but grading into other yellowish colors. Most of the core is heavily fractured. Biscuits throughout. Mottles are present in most biscuits indicating that the entire core was bioturbated.</p> <p>SS</p> |

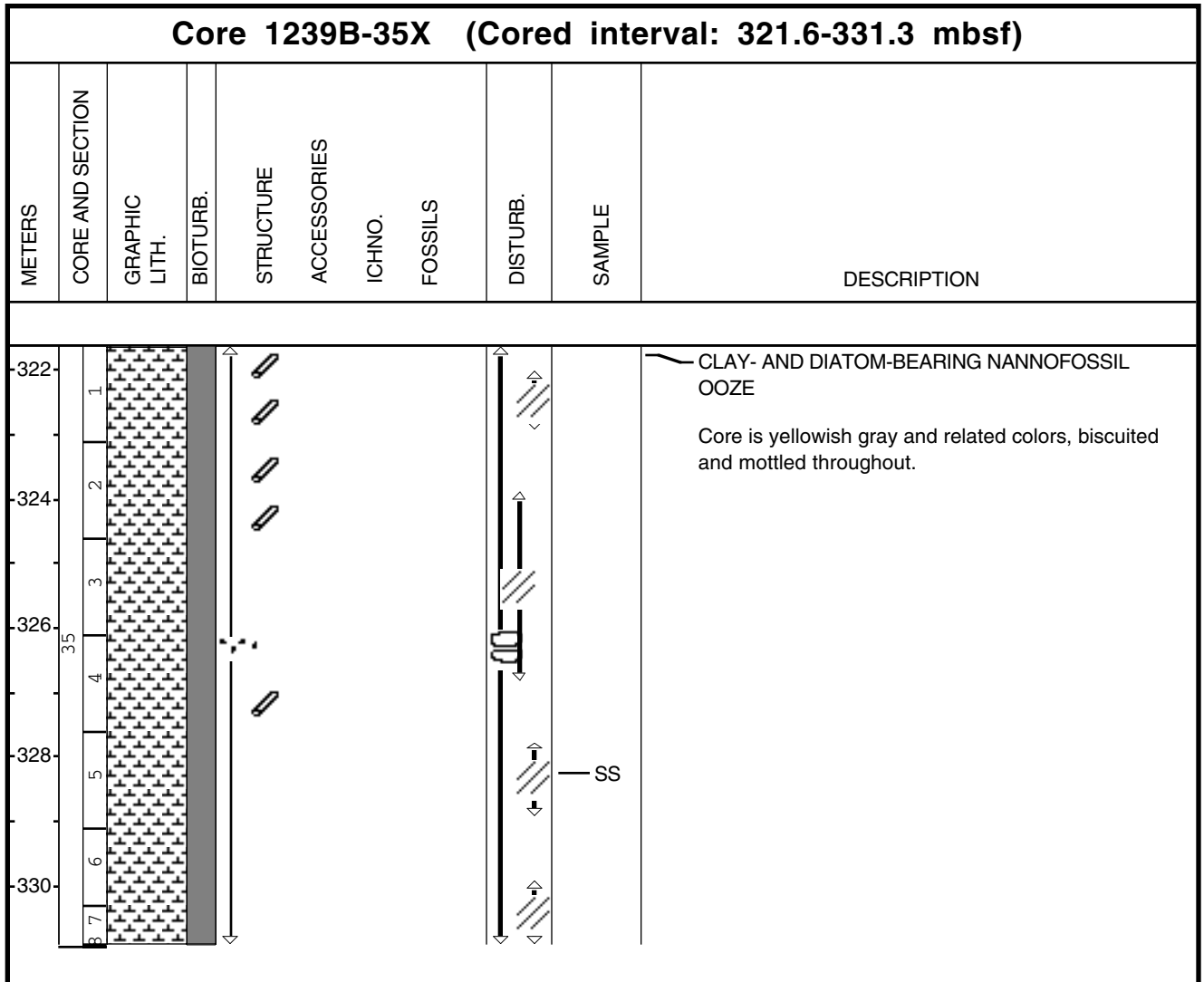
Core Photo



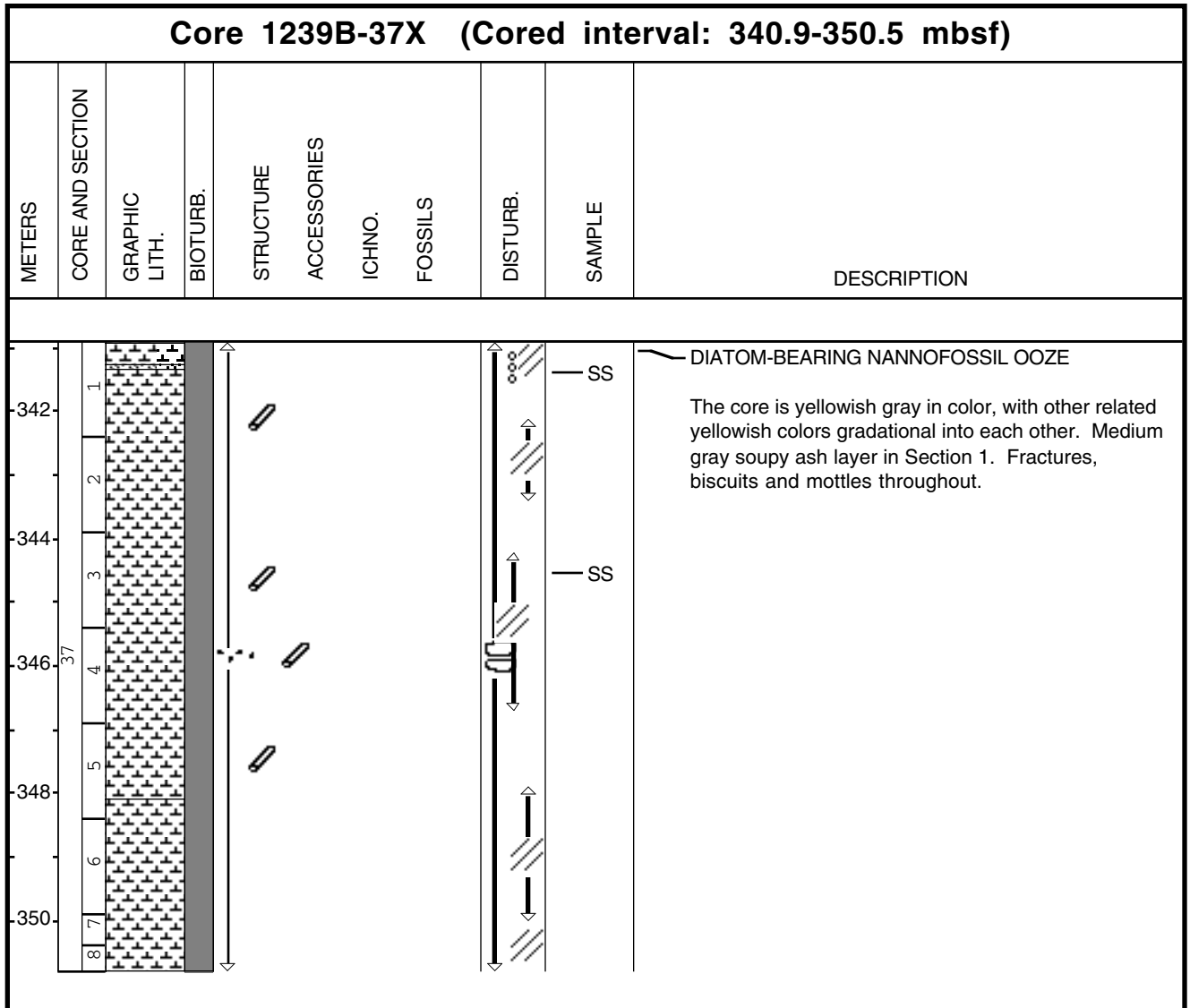
Core Photo

| Core 1239B-34X (Cored interval: 312.0-321.6 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 314 | 1 | [Pattern] | | [Symbol] | | | | | | CLAY- AND DIATOM-BEARING NANNOFOSSIL OOZE Core is dusky yellow and related yellowish colors grading into one another, burrowed throughout. Darkish gray bed in in Section 2 is a vitric ash layer. The sediment is firm but not yet a chalk or mudstone. |
| 314 | 2 | [Pattern] | | [Symbol] | | | | | SS | |
| 316 | 3 | [Pattern] | | [Symbol] | | | | | | |
| 316 | 4 | [Pattern] | | [Symbol] | | | | | | |
| 318 | 5 | [Pattern] | | [Symbol] | | | | | | |
| 320 | 6 | [Pattern] | | [Symbol] | | | | | | |
| 320 | 8.7 | [Pattern] | | [Symbol] | | | | | SS | |

Core Photo



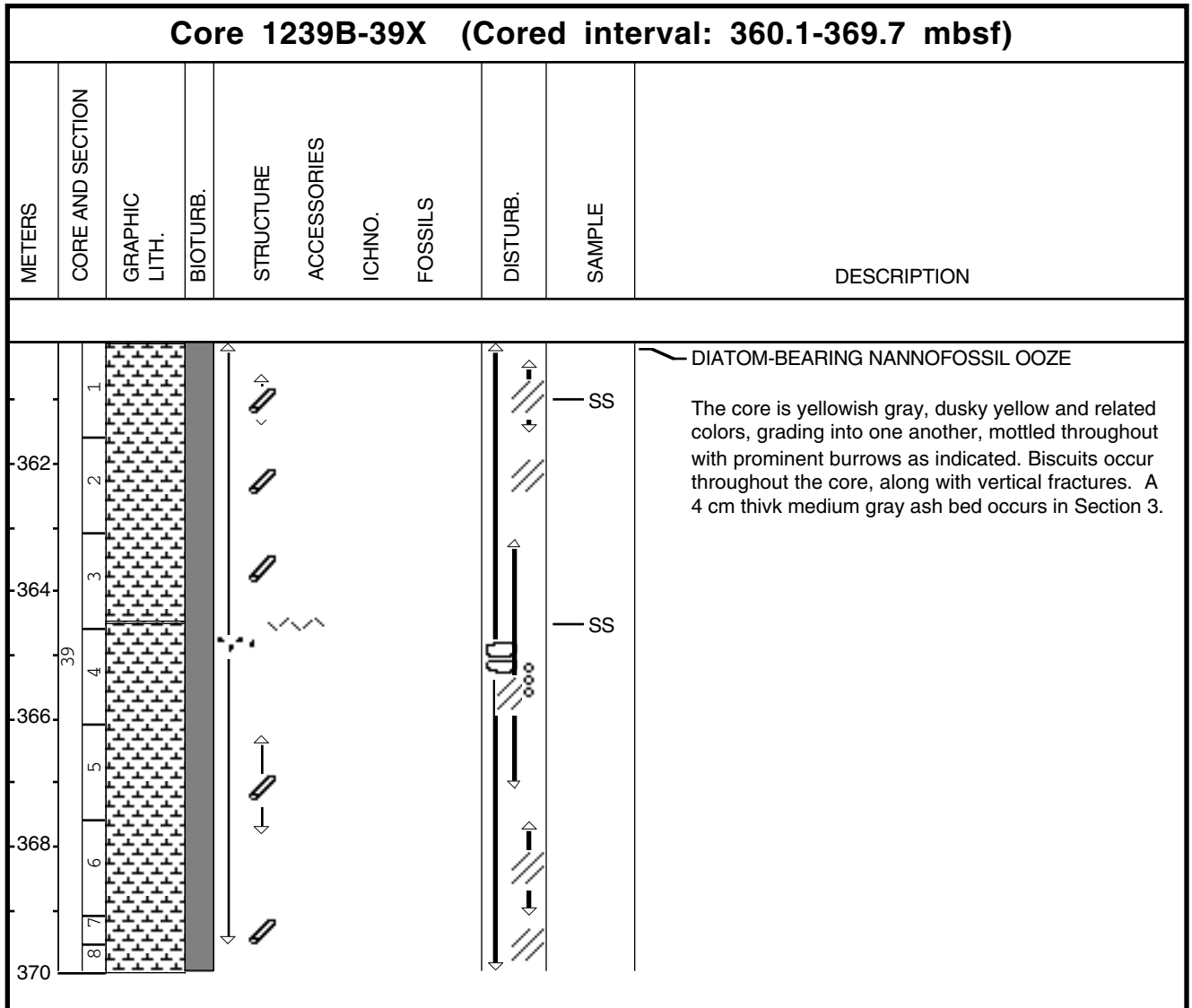
Core Photo



Core Photo

| Core 1239B-38X (Cored interval: 350.5-360.1 mbsf) | | | | | | | | | | |
|---|---------------------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 352 354 356 358 | 1 2 3 4 5 6 7 | | | | | | | | | <p>NANNOFOSSIL OOZE</p> <p>The core is yellowish gray in color. Biscuits and mottling throughout. Most of the core shows fracturing.</p> |

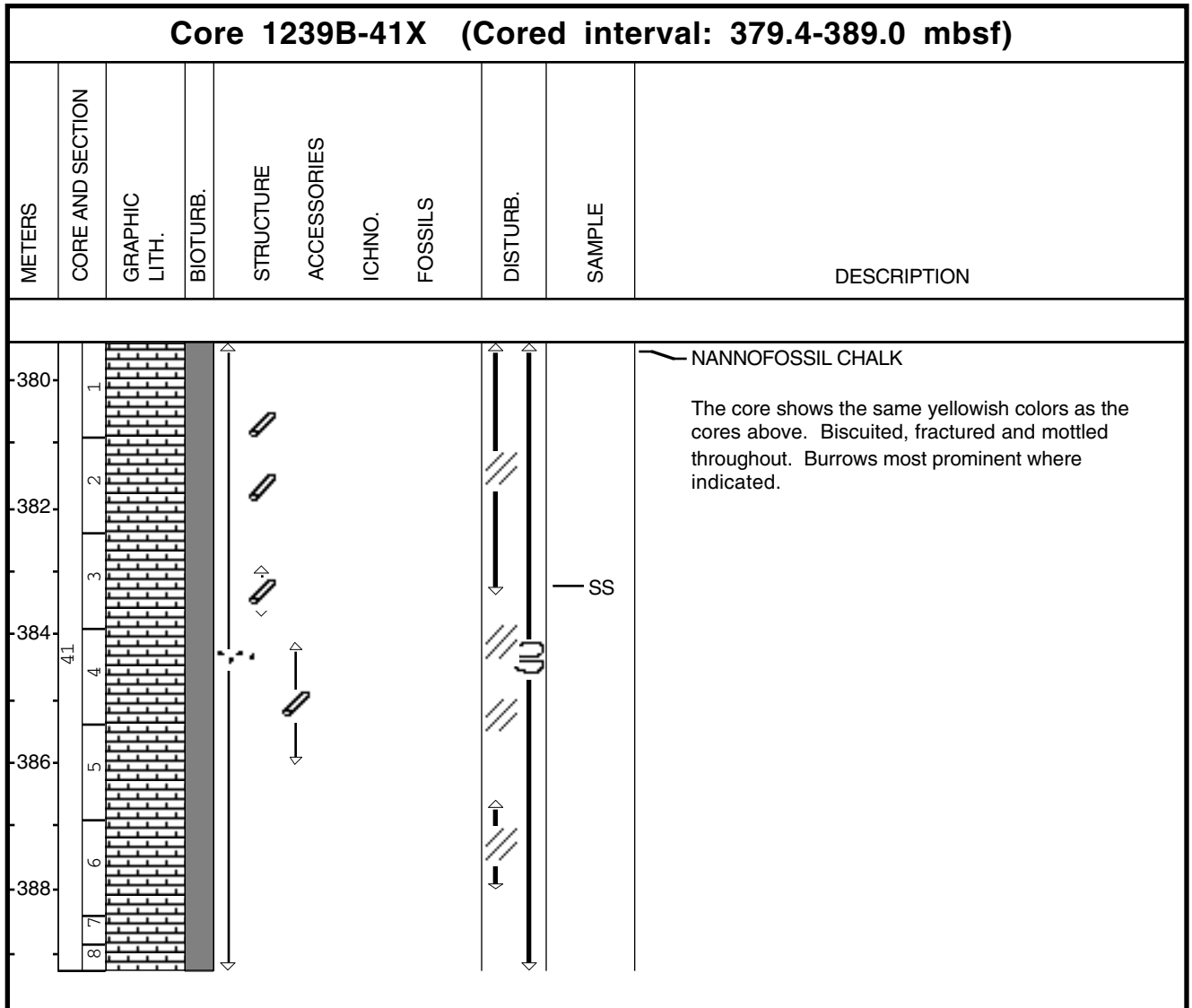
Core Photo



Core Photo

| Core 1239B-40X (Cored interval: 369.7-379.4 mbsf) | | | | | | | | | | |
|---|------------------|------------------------------------|----------|-----------|-------------|--------|---------|----------|--------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 370 | 1 | [Lithology: fine-grained, mottled] | | | | | | | | <p>NANNOFOSSIL CHALK TO DIATOM-BEARING NANNOFOSSIL CHALK</p> <p>The core is the same yellowish colors as the cores above. Biscuits and fractures occur throughout. Mottled throughout with prominent burrows as indicated.</p> |
| 372 | 2 | [Lithology: fine-grained, mottled] | | | | | | | SS | |
| 374 | 3 | [Lithology: fine-grained, mottled] | | | | | | | | |
| 376 | 4 | [Lithology: fine-grained, mottled] | | | | | | | | |
| 378 | 5 | [Lithology: fine-grained, mottled] | | | | | | | SS | |
| | 6 | [Lithology: fine-grained, mottled] | | | | | | | | |
| | 7 | [Lithology: fine-grained, mottled] | | | | | | | | |
| | 8 | [Lithology: fine-grained, mottled] | | | | | | | | |

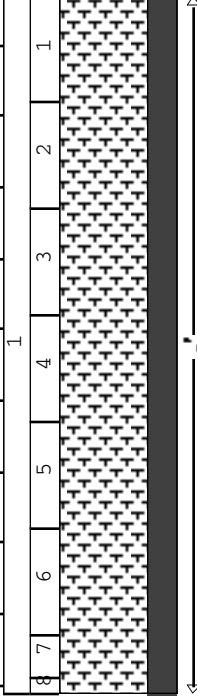
Core Photo



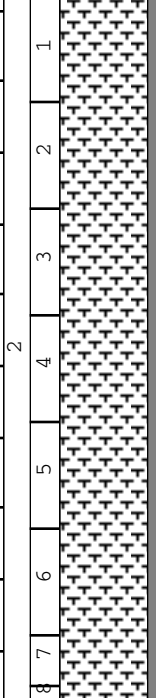
Core Photo

| Core 1239B-42X (Cored interval: 389.0-398.7 mbsf) | | | | | | | | | | |
|---|------------------|-------------------|----------|-----------|-------------|--------|---------|----------|--------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 390 | 1 | [Hatched pattern] | [Arrow] | [Arrow] | | | | | | <p>NANNOFOSSIL CHALK</p> <p>The core shows the same yellowish colors as the cores above. Biscuits, fracturing and mottling occur throughout, with the most prominent burrows occurring as indicated</p> |
| 392 | 2 | [Hatched pattern] | [Arrow] | [Arrow] | | | | | | |
| 394 | 3 | [Hatched pattern] | [Arrow] | [Arrow] | | | | | | |
| 394 | 4 | [Hatched pattern] | [Arrow] | [Arrow] | | | | | | |
| 396 | 5 | [Hatched pattern] | [Arrow] | [Arrow] | | | | | | |
| 398 | 6 | [Hatched pattern] | [Arrow] | [Arrow] | | | | | | |
| 398 | 7 | [Hatched pattern] | [Arrow] | [Arrow] | | | | | | |

Core Photo

| Core 1239C-1H (Cored interval: 1.3-10.8 mbsf) | | | | | | | | | | |
|---|------------------|--|----------|-----------|-------------|--------|---------|----------|--------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 2 | 1 |  | | | | | | | | <p>CLAY NANNOFOSSIL-BEARING FORAMINIFER OOZE</p> <p>This core contains soft and moist clay nannofossil-bearing foraminifer ooze. The sediment colors vary between olive gray to olive and all colors. Changes are gradational. Within many intervals, the sediment appears coarse, and foraminifers are evident along the surface. Sulfides occur in each section as black spots. The sediment is mottled and burrowed throughout. A gray ash layer occurs in Section 5, 33-49.</p> |
| 4 | 2 | | | | | | | | | |
| 6 | 3 | | | | | | | | | |
| 8 | 4 | | | | | | | | | |
| 10 | 5 | | | | | | | | | |
| | 6 | | | | | | | | | |
| | 7 | | | | | | | | | |
| | 8 | | | | | | | | | |

Core Photo

| Core 1239C-2H (Cored interval: 10.8-20.3 mbsf) | | | | | | | | | | |
|--|------------------|--|----------|-----------|-------------|--------|---------|----------|--------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 12 | 1 |  | | | | | | | | <p>CLAY NANNOFOSSIL-BEARING FORAMINIFER OOZE</p> <p>This core contains very moist olive gray to light olive gray clay nannofossil-bearing foraminifer ooze. Color changes are subtle and gradational throughout. Foraminifer tests are visible on the surface sediments. A light gray ash layer with sharp basal contact and bioturbated top occur in Section 2, 140-145 cm. A second, very bioturbated light gray ash layer occur in Section 7, between 39-45 cm. Light and dark olive gray mottles are present throughout the core and Zoophycos traces occur throughout. Hydrogen sulfide gas was released during core splitting.</p> |
| 14 | 2 | | | | | | | | | |
| 16 | 3 | | | | | | | | | |
| 18 | 4 | | | | | | | | | |
| 20 | 5 | | | | | | | | | |
| | 6 | | | | | | | | | |
| | 7 | | | | | | | | | |
| | 8 | | | | | | | | | |

Core Photo

| Core 1239C-3H (Cored interval: 20.3-29.8 mbsf) | | | | | | | | | | |
|--|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 22 | 1 | | | | | | | | | <p>CLAY NANNOFOSSIL-BEARING FORAMINIFER OOZE</p> <p>This core contains soft, moist olive gray to light olive gray clay nannofossil-bearing foraminifer ooze. All color changes are subtle and gradational. Foraminifer tests and black sulfide patches are visible on the split core surface.</p> |
| 24 | 2 | | | | | | | | | |
| 26 | 3 | | | | | | | | | |
| 28 | 4 | | | | | | | | | |
| 30 | 5 | | | | | | | | | |
| | 6 | | | | | | | | | |
| | 7 | | | | | | | | | |
| | 8 | | | | | | | | | |

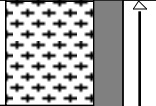
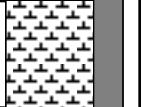
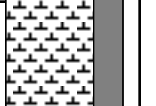
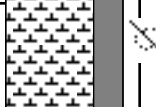
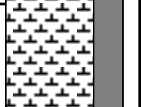
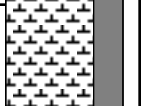
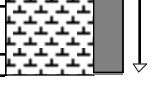

Core Photo

| Core 1239C-4H (Cored interval: 29.8-39.3 mbsf) | | | | | | | | | | |
|--|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 32 | 1 | | | | | | | | | <p>CLAY FORAMINIFER-BEARING NANNOFOSSIL OOZE</p> <p>This core contains soft, moist, olive gray to light olive gray clay foraminifer-bearing nannofossil ooze. The colors vary gradationally from light to dark within each section. Sulfides appear along the split surface as black spots. The sediment is mottled and burrowed throughout.</p> |
| 34 | 2 | | | | | | | | | |
| | 3 | | | | | | | | | |
| 36 | 4 | | | | | | | | | |
| | 5 | | | | | | | | | |
| 38 | 6 | | | | | | | | | |
| | 7 | | | | | | | | | |
| | 8 | | | | | | | | | |

Core Photo

| Core 1239C-5H (Cored interval: 41.3-50.8 mbsf) | | | | | | | | | | |
|--|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 42 | 1 | | | | | | | | | <p>FORAMINIFER-BEARING NANNOFOSSIL OOZE</p> <p>This core contains firm and homogeneous foraminifer-bearing nannofossil ooze. Color vary between light olive and olive throughout and all color changes are gradational. The core is moderately bioturbated with abundant mottles and burrows. Abundant black patches and spots indicate sulfidic minerals.</p> |
| 44 | 2 | | | | | | | | | |
| 46 | 3 | | | | | | | | | |
| 46 | 4 | | | | | | | | | |
| 48 | 5 | | | | | | | | | |
| 48 | 6 | | | | | | | | | |
| 50 | 7 | | | | | | | | | |
| 50 | 8 | | | | | | | | | |

Core Photo

| Core 1239C-6H (Cored interval: 50.8-60.3 mbsf) | | | | | | | | | | |
|--|------------------|---|----------|-----------|-------------|--------|---------|----------|--------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 52 | 1 |  | | | | | | | | <p>CLAY-BEARING NANNOFOSSIL FORAMINIFER OOZE and CLAY and FORAMINIFER-BEARING NANNOFOSSIL OOZE</p> <p>This core consists of clay-bearing nannofossil foraminifer ooze in Section 1 and clay and foraminifer-bearing nannofossil ooze below. Colors change gradationally on a meter to decimeter scale between olive gray and dark olive gray. The lower half of Section 5 is pale olive. Mottling and trace fossils occur occasionally throughout the core indicating moderate bioturbation. Ironsulfides are visible as black grains in some intervals. At 40-50 cm abundant black patches and mottles indicate increased contents of sulfidic minerals. Hydrogen sulfide gas was released during core splitting.</p> |
| 54 | 2 |  | | | | | | | | |
| 56 | 3 |  | | | | | | | | |
| 58 | 4 |  | | | | | | | | |
| 60 | 5 |  | | | | | | | | |
| | 6 |  | | | | | | | | |
| | 7 |  | | | | | | | | |
| | 8 |  | | | | | | | | |

Core Photo

| Core 1239C-7H (Cored interval: 60.3-69.8 mbsf) | | | | | | | | | | |
|--|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 62 | 1 | | | | | | | | | <p>CLAY-BEARING NANNOFOSSIL OOZE with MICRITE</p> <p>The lithology of this core is dominated by olive gray to light olive gray clay-bearing nannofossil ooze with micrite. Color changes are subtle and gradational. Abundant Zoophycos burrows occur in Section 2 and 5. A light gray ash layer with sharp contact and diffuse upward occur in Section 3, 110-119 cm. A stiff concretion (composed of nannofossil-bearing lithified mudstone) is found in Section 4, 78-83. Mottles and vertical borrows are abundant throughout. Shell fragments occur in some sections. Monosulfides occur as black grains on the surface and hydrogen sulfide gas was released during core splitting.</p> |
| 64 | 2 | | | | | | | | | |
| 66 | 3 | | | | | | | | | |
| 68 | 4 | | | | | | | | | |
| 70 | 5 | | | | | | | | | |
| | 6 | | | | | | | | | |
| | 7 | | | | | | | | | |
| | 8 | | | | | | | | | |

Core Photo

| Core 1239C-8H (Cored interval: 69.8-79.3 mbsf) | | | | | | | | | | |
|--|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 72 | 1 | | | | | | | | | <p>CLAY-BEARING NANNOFOSSIL OOZE</p> <p>This core contains clay-bearing nannofossil ooze. Sediment color is pale olive and olive. Color mottling is present throughout. Discrete burrows, including Zoophycos traces are especially abundant in Sections 1, 2, and 4. Section 5 contains a gray ash layer (36-38 cm). Ash patches occur below and above the layer. Mottles are observed throughout the core.</p> |
| 72 | 2 | | | | | | | | | |
| 74 | 3 | | | | | | | | | |
| 74 | 4 | | | | | | | | | |
| 76 | 5 | | | | | | | | | |
| 76 | 6 | | | | | | | | | |
| 78 | 7 | | | | | | | | | |
| 78 | 8 | | | | | | | | | |

Core Photo

| Core 1239C-9H (Cored interval: 79.3-88.8 mbsf) | | | | | | | | | | |
|--|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 80- | 1 | | | | | | | | | <p>NANNOFOSSIL OOZE with MICRITE and DIATOM-BEARING NANNOFOSSIL OOZE</p> <p>This core contains nannofossil ooze with micrite and diatom-bearing nannofossil ooze. Sediment color gradually changes from olive to dark olive gray downcore. Discrete burrows, including Zoophycos traces, and mottles are present, but sparse. Patches of forams occur in Sections 1 and 3. An ash layer is present in Section 1, 28-35 cm, with ash patches below to 46 cm. Section 5, 109 cm cm, contains a gray ash layer that is smeared between 77 and 141 cm depth in small patches.</p> |
| 82- | 2 | | | | | | | | | |
| 84- | 3 | | | | | | | | | |
| 84- | 4 | | | | | | | | | |
| 86- | 5 | | | | | | | | | |
| 86- | 6 | | | | | | | | | |
| 88- | 7 | | | | | | | | | |
| | 8 | | | | | | | | | |
| | 9 | | | | | | | | | |

Core Photo

| Core 1239C-10H (Cored interval: 88.8-98.3 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 90 | 1 | | | | | | | | | <p>CLAY-BEARING DIATOM NANNOFOSSIL OOZE with MICRITE and NANNOFOSSIL OOZE</p> <p>This core contains homogenous dark olive clay-bearing diatom nannofossil ooze with micrite and nannofossil ooze. Mottles and preserved burrow traces, including Zoophycos traces, are sparse. Tiny patches of ash are present in Section 3, 15 cm and 120 cm. A patch of forams occurs in Section 4, 132 cm.</p> |
| 92 | 2 | | | | | | | | | |
| 94 | 3 | | | | | | | | | |
| 94 | 4 | | | | | | | | | |
| 96 | 5 | | | | | | | | | |
| 98 | 6 | | | | | | | | | |
| 98 | 7 | | | | | | | | | |
| 98 | 8 | | | | | | | | | |

Core Photo

| Core 1239C-11H (Cored interval: 98.3-107.8 mbsf) | | | | | | | | | | |
|--|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|---|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 100 | 1 | | | | | | | | | <p>CLAY-BEARING DIATOM NANNOFOSSIL OOZE with MICRITE and NANNOFOSSIL OOZE</p> <p>This core contains homogenous dark olive to olive clay-bearing diatom nannofossil ooze with micrite and nannofossil ooze. Sediment color changes gradational throughout. Mottles and preserved burrow traces are sparse.</p> |
| 102 | 2 | | | | | | | | | |
| 104 | 3 | | | | | | | | | |
| 106 | 4 | | | | | | | | | |
| 108 | 5 | | | | | | | | | |
| | 6 | | | | | | | | | |
| | 7 | | | | | | | | | |
| | 8 | | | | | | | | | |

Core Photo

| Core 1239C-12H (Cored interval: 107.8-117.3 mbsf) | | | | | | | | | | |
|---|------------------|---------------|----------|-----------|-------------|--------|---------|----------|--------|--|
| METERS | CORE AND SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | DESCRIPTION |
| 110 | 1 | | | | | | | | | <p>DIATOM NANNOFOSSIL OOZE with MICRITE</p> <p>This core contains firm, homogeneous diatom nannofossil ooze with micrite. Sediment color varies from dark olive gray to olive. Color mottling is very subtle. Burrows, including Zoophycos traces occur throughout. A medium gray ash layer present in Section 2, 76-78 cm. A vertical burrow cuts directly across this ash. A dispersed ash layer is present in Section 3, 130 cm. Shell fragments are present in Section 1, 60 cm and Section 4, 5 cm.</p> |
| 112 | 2 | | | | | | | | | |
| 114 | 3 | | | | | | | | | |
| 116 | 4 | | | | | | | | | |
| | 5 | | | | | | | | | |
| | 6 | | | | | | | | | |
| | 7 | | | | | | | | | |

| Sample | Core | | | Depth (mbsf) | Texture | | Mineral | | | | | | | | | | | | | | | | | | | Biogenic | | | | | | | | | | | Rock | | | | Comments | | | | | | | |
|---------------------------|------|---------|----------|--------------|-----------|----------|----------|----------|---------------|--------------|-----------------|-------------------|---------------------|---------------|--------------|---------------|-------------|------------------|---------------------|---------------|------------------------|------------|----------------|---------------------|--------------|------------------|-------------------|--------------|----------------|--------------|--------------|----------------|---------------------|-----------------------|--------------|--------------|-----------------|--------------|-------------------|--------------------|----------|--------------|--------------------|---------------------------------|-------------------------|--|---|--|
| | Type | Section | Top (cm) | | Lithology | Sand (%) | Silt (%) | Clay (%) | Amphibole (8) | Calcite (30) | Chalcedony (42) | Clay Mineral (47) | Chloropyroxene (49) | Dolomite (62) | Epidote (67) | Feldspar (71) | Garnet (79) | Glaucophane (82) | Heavy Minerals (89) | Hematite (90) | Inorganic Calcite (97) | Mica (118) | Opauques (140) | Orthopyroxene (143) | Oxides (146) | Palagonite (148) | Phillipsite (155) | Pyrite (169) | Pyroxene (171) | Quartz (172) | Rutile (178) | Titanite (210) | Volcanic Glass (81) | Zeolite (phillipsite) | Zircon (223) | Diatoms (58) | Discoaster (61) | Fish remains | Foraminifers (78) | Nannofossils (132) | | Pollen (162) | Radiolarians (173) | Siliceous Sponge Spicules (185) | Silicoflagellates (189) | Unknown (258) | Bioclasts (21) | Carbonate Grains |
| Hole B (continued) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | X | 3 | 60 | 174.90 | D | 25 | 75 | | | | 10 | | | | | | | | | | | * | | | | | | | * | | | 1 | | | 55 | * | 5 | 11 | 10 | 5 | 2 | | | 1 | | | | Clay-, radiolarian-, and nannofossil-bearing diatom ooze. Carbonate grains are irregular prisms about 40 micrometer long x 25 micrometer wide. |
| 20 | X | 4 | 110 | 186.20 | D | 30 | 70 | | | | 10 | | | | | | | | | | | 1 | | | | | | * | | | * | | 50 | | 5 | 17 | 10 | 5 | 1 | | | 1 | | | | Clay-, radiolarian-, and nannofossil-bearing diatom ooze. Opaque minerals are spherical; Pt framboids? Ferromanganese micronodules? | | |
| 21 | X | 2 | 30 | 192.10 | D | 10 | 90 | | | | 5 | | | | | | | | | | | * | | | | | | * | | 1 | | 15 | * | 10 | 47 | 15 | 5 | 1 | | | | | | | | Foraminifer-, Diatom-, and radiolarian-bearing nannofossil ooze. Volcanic glass - light, thin shards, not hyaloclastite. | | |
| 22 | X | 1 | 40 | 200.40 | D | 30 | 70 | | | | 5 | | | | | | | | | | | 8 | | | | | | * | | * | | 10 | | 5 | 61 | 5 | 4 | 2 | | | | | | | | Diatom-bearing nannofossil ooze. Mainly micronodules, some irregular shape on sponge spicules. Volcanic glass - light, pyroclastic. | | |
| 22 | X | 5 | 30 | 206.30 | D | 30 | 70 | | | | 5 | | | | | | | | | | | 2 | | | | | | * | | | 10 | | 5 | 65 | 8 | 5 | * | | | | | | | | | Diatom-bearing nannofossil ooze. | | |
| 23 | X | 1 | 50 | 210.10 | D | 25 | 75 | | | | 5 | | | | | | | | | | | | | 1 | | | 2 | * | 1 | | 25 | | 4 | 50 | 5 | 6 | 1 | | | | | | | | | Diatom-bearing nannofossil ooze. Oxide is reddish brown Fe-oxide globules. Zeolite is within siliceous microfossils; and against glass shards. | | |
| 23 | X | 5 | 30 | 215.90 | D | 40 | 60 | | | | 5 | | | | | | | | | | | 6 | | | | | | * | | 1 | 20 | | * | 50 | 6 | 6 | 1 | | | | | | | | | Diatom-bearing nannofossil ooze. Oxide is reddish brown Fe-oxide globules. Zeolite is within siliceous microfossils. Volcanic glass is light and tubular. | | |
| 24 | X | 2 | 90 | 221.30 | D | 25 | 75 | | | | 7 | | | | | | | | | | | 2 | | | | | | * | | | 10 | | 8 | 55 | 10 | 5 | 1 | | | 2 | | | | | | Diatom- and radiolarian-bearing nannofossil ooze. Opaque minerals - many are inside spicules. Carbonate grains - apparently from crushed foraminifers. | | |
| 24 | X | 4 | 120 | 224.60 | D | 20 | 80 | | | | 8 | | | | | | | | | | | 2 | * | | | | | * | | * | 10 | | 8 | 60 | 4 | 4 | 2 | | | 2 | | | | | | | Diatom-bearing nannofossil ooze. Fe-oxide is reddish brown globules. Carbonate grains are apparently from crushed foraminifers. | |
| 25 | X | 3 | 130 | 332.80 | D | 30 | 70 | | | | 5 | | | | | | | | | | | 2 | | | | | | * | | | 10 | * | 8 | 50 | 12 | 6 | * | | | 5 | | | | | | Diatom- and radiolarian-bearing nannofossil ooze. Opaque minerals are on or in radiolarians, spicules, and diatoms. Carbonate grains are presumably from crushed foraminifers. | | |
| 26 | X | 1 | 120 | 239.10 | D | 10 | 90 | | | | 15 | | | | | | | | | | | 1 | | | | | | 1 | * | 2 | 8 | * | 6 | 55 | 6 | 6 | * | | | | | | | | | | Clay-bearing diatom ooze. Some radiolarians with zeolites. | |
| 26 | X | 6 | 100 | 246.40 | D | | | | | | 5 | | | | | | | | | | | 1 | * | | | | 2 | | | 5 | * | 4 | 70 | 8 | 5 | | | | | | | | | | | | Nannofossil ooze. | |
| 27 | X | 2 | 85 | 209.85 | D | 40 | 60 | | | | 5 | | | | | | | | | | | 2 | | | | | * | | 1 | 1 | 10 | | 5 | 66 | 5 | 5 | * | | | | | | | | | | | Diatom-bearing nannofossil ooze. |
| 27 | X | 5 | 65 | 254.15 | D | 10 | 90 | | | | 5 | | | | | | | | | | | 1 | | | | | | 1 | 2 | 6 | * | 6 | 65 | 6 | 8 | | | | | | | | | | | | | Nannofossil ooze. Zeolites in microfossils and strewn on slide. |
| 28 | X | 5 | 70 | 260.80 | D | 30 | 70 | | | | 4 | | | | | | | | | | | 3 | | | | | | 2 | | 15 | * | 5 | 60 | 5 | 6 | | | | | | | | | | | | Diatom-bearing nannofossil ooze. Opaque minerals - commonly inside microfossils. | |
| 29 | X | 2 | 80 | 266.00 | D | 30 | 70 | | | | 40 | | | | | | | | | | | 4 | | | | | | 1 | 3 | 10 | | 1 | 35 | 3 | 3 | * | | | | | | | | | | | Diatom-bearing nannofossil clay. Zeolite clinging to radiolarians and large sponge spicules. | |
| 29 | X | 3 | 70 | 267.40 | D | | | | | | 35 | | | | | | | | | | | 2 | | | | | | 10 | 1 | 4 | | 6 | 35 | 6 | 1 | * | | | | | | | | | | | | Ash-bearing nannofossil clay. Zeolites inside radiolarians. |
| 29 | X | 5 | 30 | 270.00 | D | 20 | 80 | | | | 15 | | | | | | | | | | | 5 | | | | | * | * | 20 | | 2 | 50 | | 6 | 2 | | | | | | | | | | | | | Clay- and diatom-bearing nannofossil ooze. Opaque minerals are individual micronodules or framboids(?), also inside and coating microfossils. |
| 29 | X | 6 | 130 | 272.50 | M | 40 | 60 | | | | 5 | | 5 | | | | | | | | | 20 | | | | | 3 | 45 | 10 | | 10 | | 10 | | 2 | | | | | | | | | | | | | Diatom- and nannofossil-bearing vitric ash. Volcanic glass - silt-sized shards, light with bogen and tubular structure. Opaque minerals - highly angular as if recently broken, no apparent diagnostic shapes (e.g., no framboids or cubes). |

