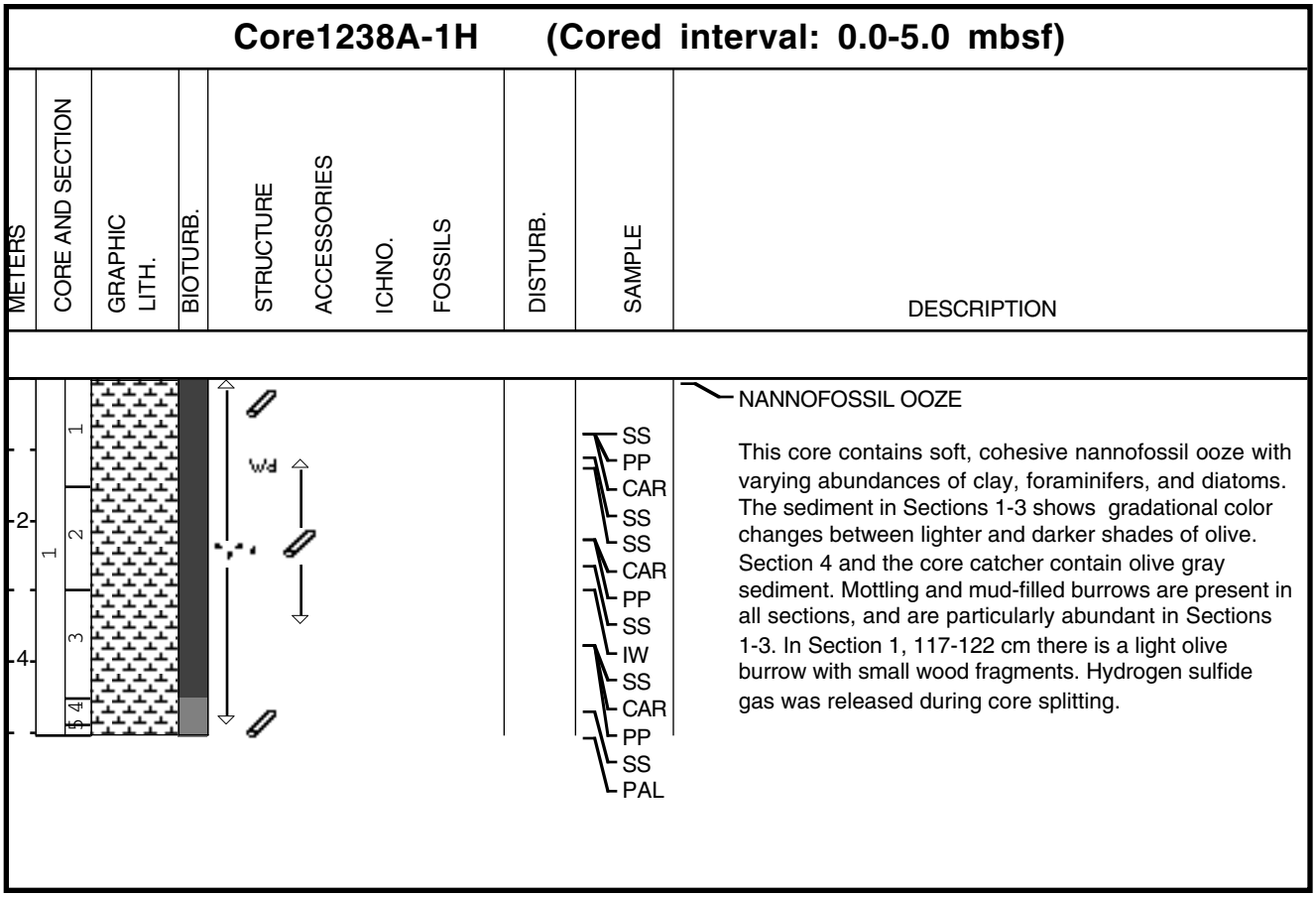
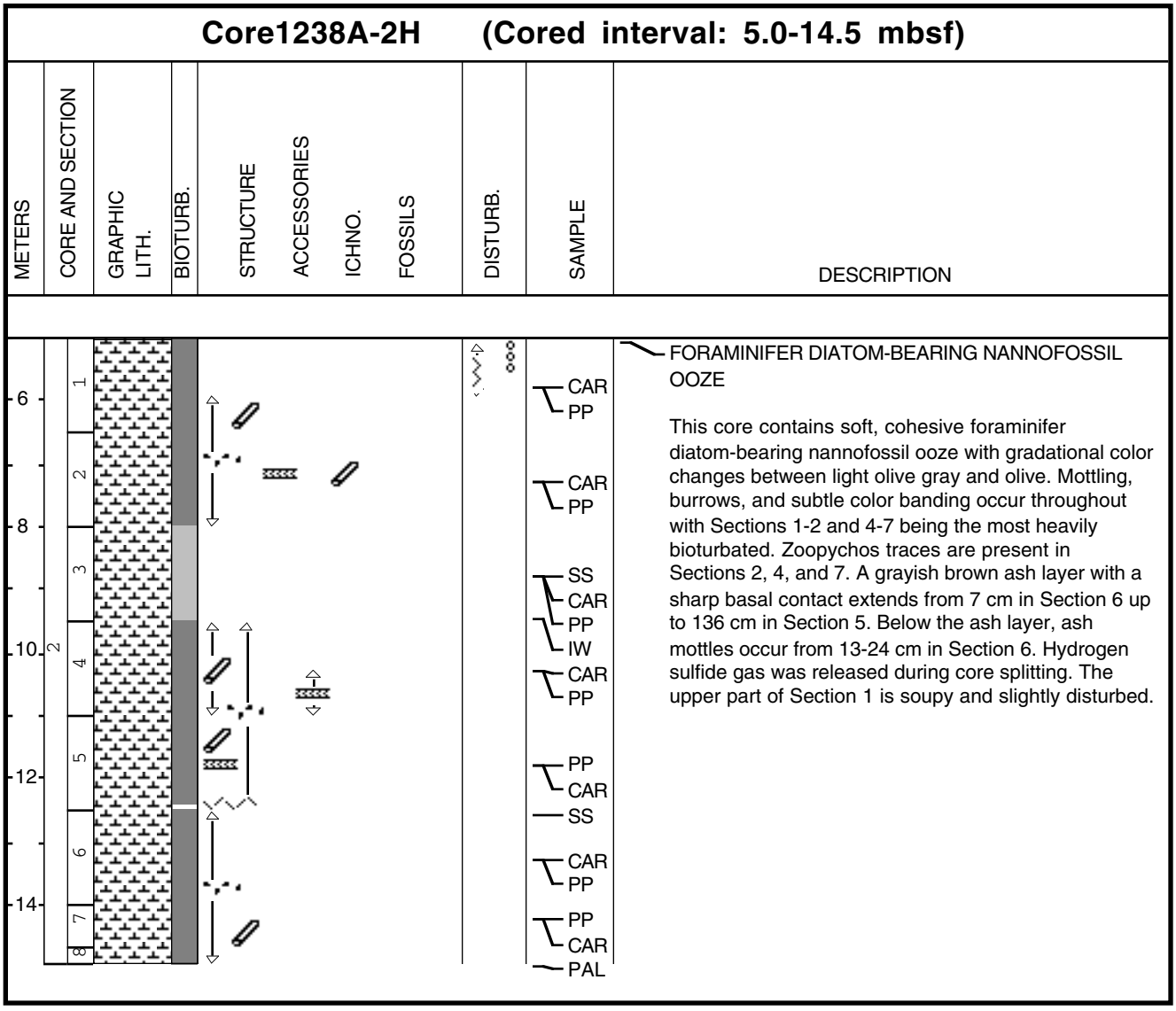
Core Photo

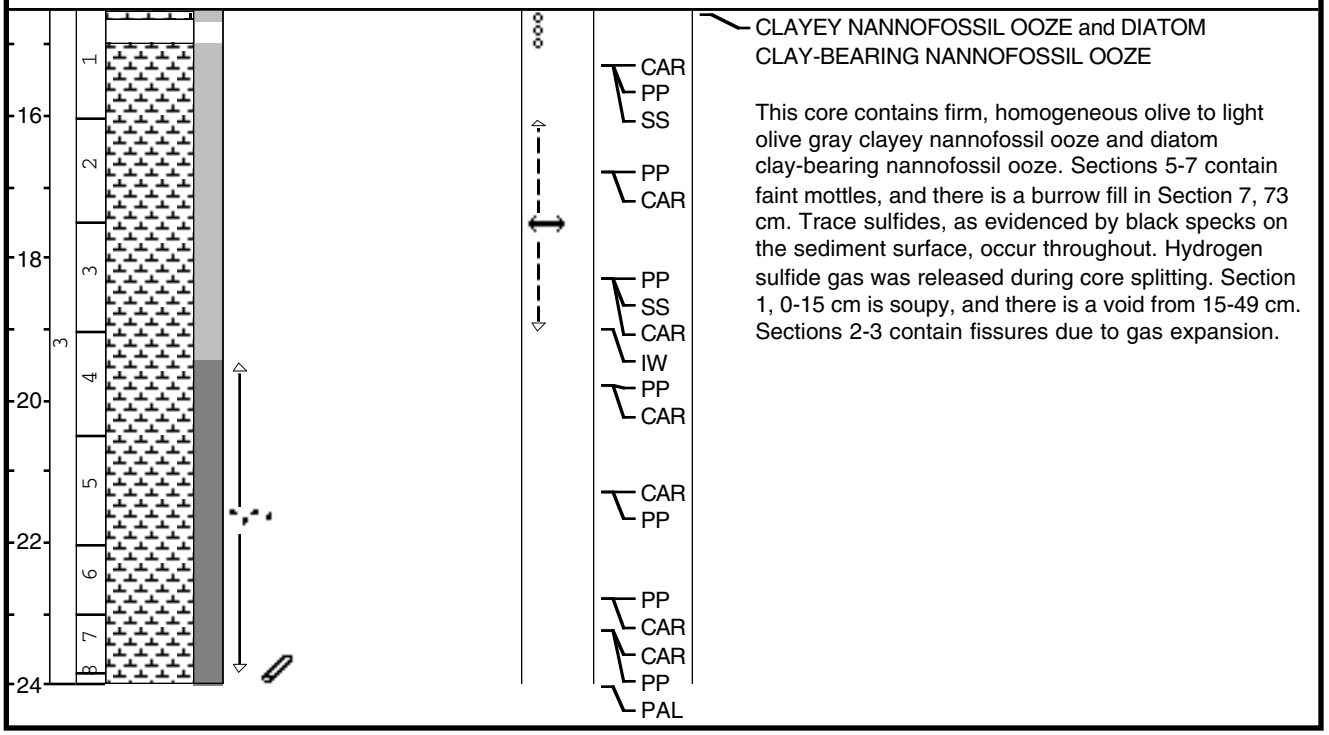

Core1238A-1H (Cored interval: 0.0-5.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
2
4
1
2
3
4
CC
w/d
SS
PP
CAR
SS
SS
CAR
PP
SS
IW
SS
CAR
PP
SS
PAL
NANNOFOSSIL OOZE
This core contains soft, cohesive nannofossil ooze with varying abundances of clay, foraminifers, and diatoms. The sediment in Sections 1-3 shows gradational color changes between lighter and darker shades of olive. Section 4 and the core catcher contain olive gray sediment. Mottling and mud-filled burrows are present in all sections, and are particularly abundant in Sections 1-3. In Section 1, 117-122 cm there is a light olive burrow with small wood fragments. Hydrogen sulfide gas was released during core splitting.

Core Photo

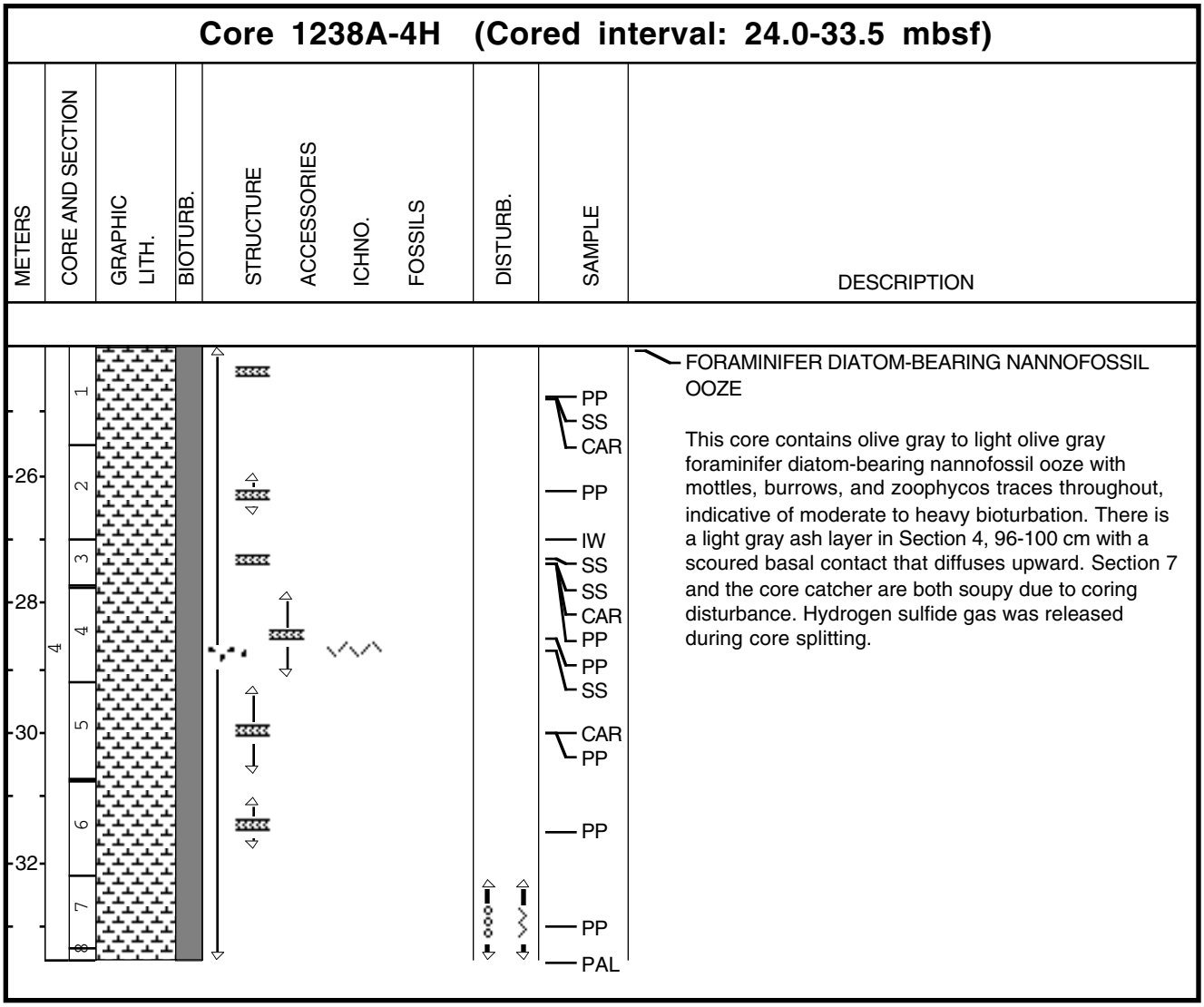

Core1238A-2H (Cored interval: 5.0-14.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
6
8
10
12
14
2
1
2
3
4
5
6
7
8
CAR
PP
CAR
PP
SS
CAR
PP
IW
CAR
PP
PP
CAR
SS
CAR
PP
PP
CAR
PAL
FORAMINIFER DIATOM-BEARING NANNOFOSSIL OOZE
This core contains soft, cohesive foraminifer diatom-bearing nannofossil ooze with gradational color changes between light olive gray and olive. Mottling, burrows, and subtle color banding occur throughout with Sections 1-2 and 4-7 being the most heavily bioturbated. Zoopychos traces are present in Sections 2, 4, and 7. A grayish brown ash layer with a sharp basal contact extends from 7 cm in Section 6 up to 136 cm in Section 5. Below the ash layer, ash mottles occur from 13-24 cm in Section 6. Hydrogen sulfide gas was released during core splitting. The upper part of Section 1 is soupy and slightly disturbed.

Core Photo

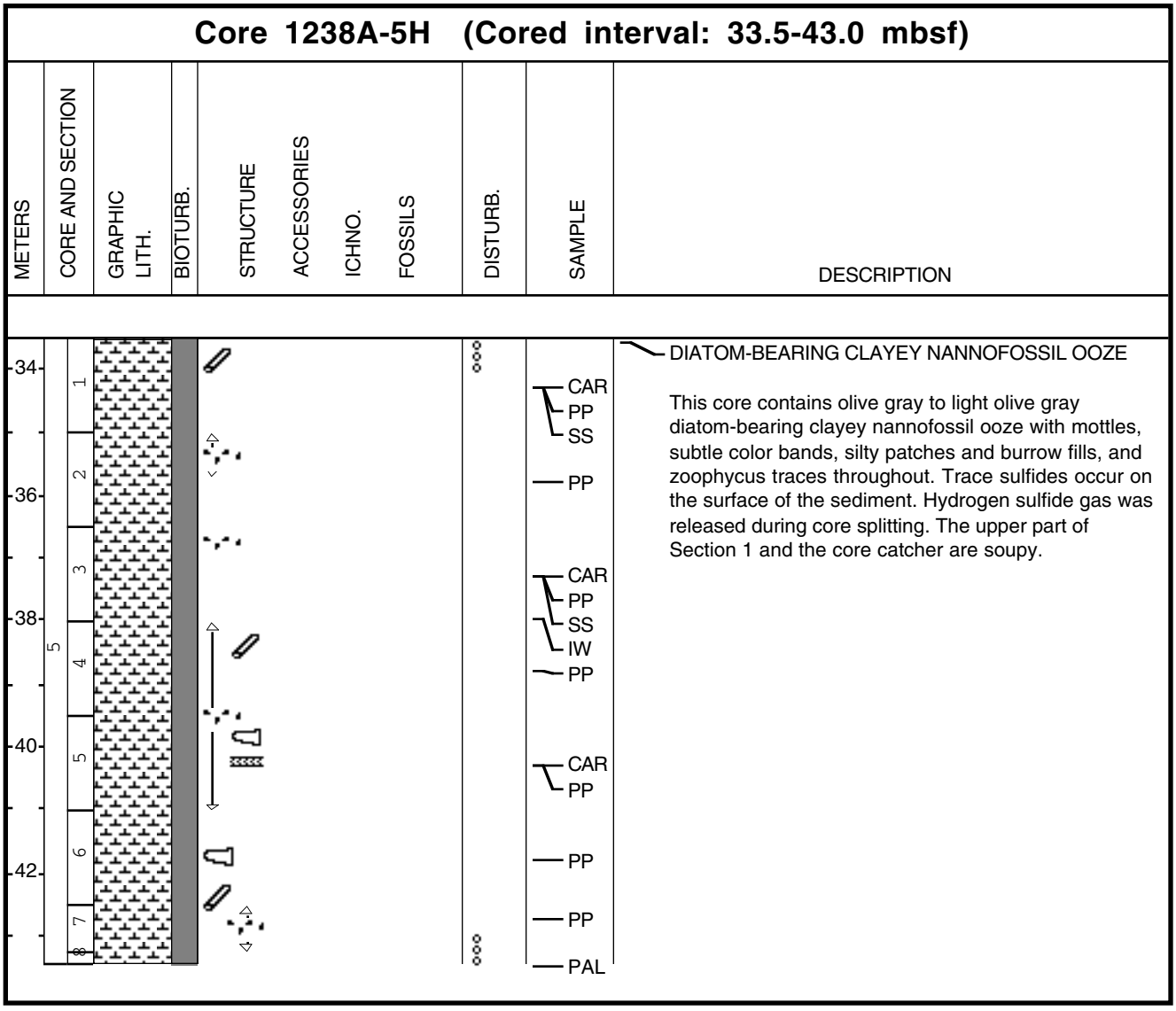
Core 1238A-3H (Cored interval: 14.5-24.0 mbsf)



Core Photo

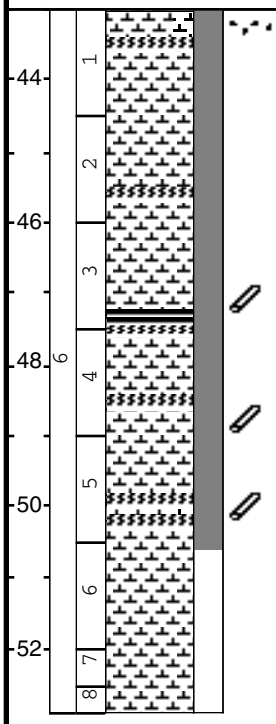

Core 1238A-4H (Cored interval: 24.0-33.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
26
28
30
32
4
1
2
3
4
5
6
7
PP
SS
CAR
PP
IW
SS
SS
CAR
PP
PP
SS
CAR
PP
PP
PP
PAL
FORAMINIFER DIATOM-BEARING NANNOFOSSIL OOZE
This core contains olive gray to light olive gray foraminifer diatom-bearing nannofossil ooze with mottles, burrows, and zoophycos traces throughout, indicative of moderate to heavy bioturbation. There is a light gray ash layer in Section 4, 96-100 cm with a scoured basal contact that diffuses upward. Section 7 and the core catcher are both soupy due to coring disturbance. Hydrogen sulfide gas was released during core splitting.

Core Photo


Core 1238A-5H (Cored interval: 33.5-43.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
34
36
38
40
42
5
1
2
3
4
5
6
7
8
CAR
PP
SS
PP
CAR
PP
SS
IW
PP
CAR
PP
PP
PP
PAL
DIATOM-BEARING CLAYEY NANNOFOSSIL OOZE
This core contains olive gray to light olive gray diatom-bearing clayey nannofossil ooze with mottles, subtle color bands, silty patches and burrow fills, and zoophycus traces throughout. Trace sulfides occur on the surface of the sediment. Hydrogen sulfide gas was released during core splitting. The upper part of Section 1 and the core catcher are soupy.

Core Photo

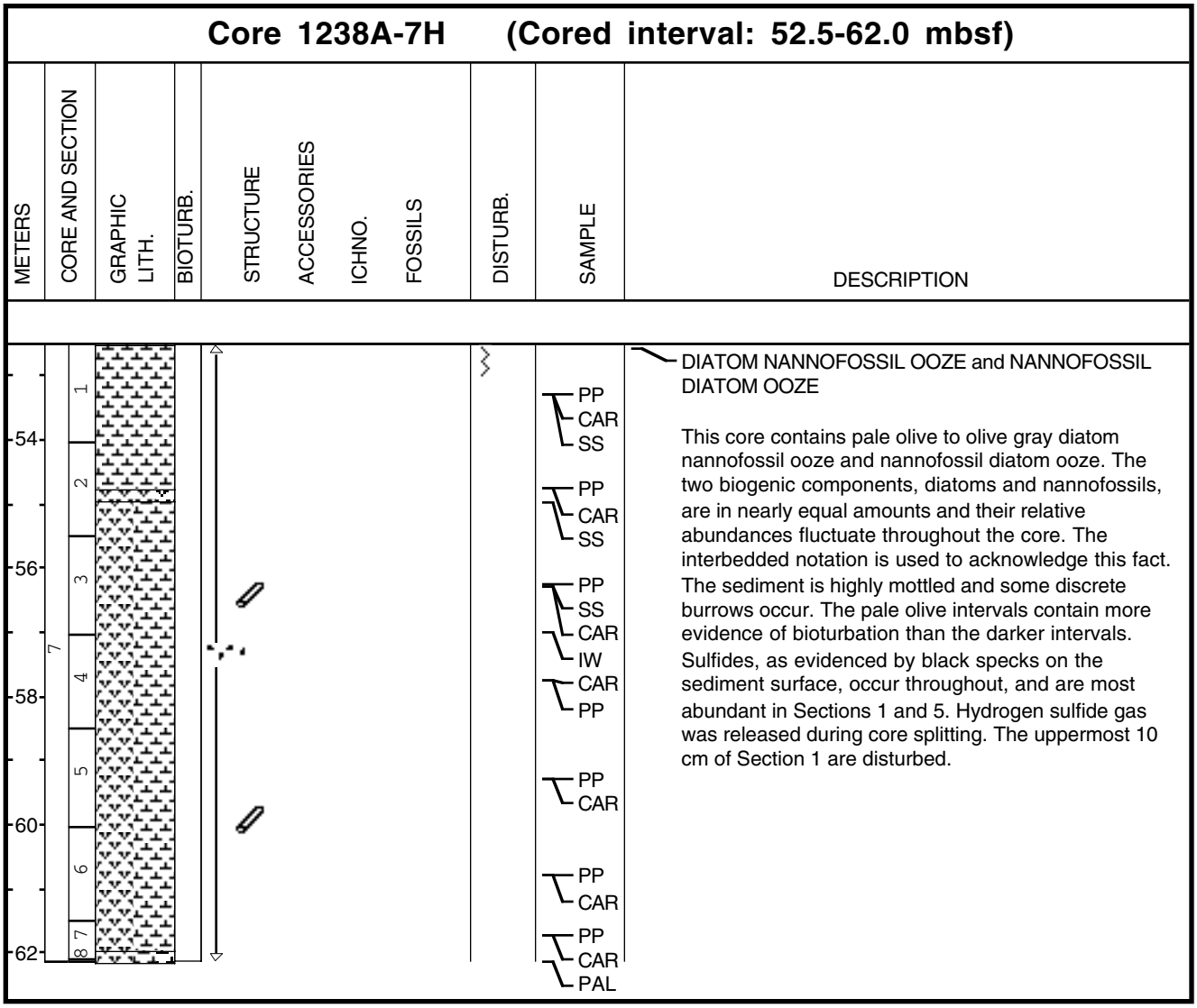
Core 1238A-6H (Cored interval: 43.0-52.5 mbsf)



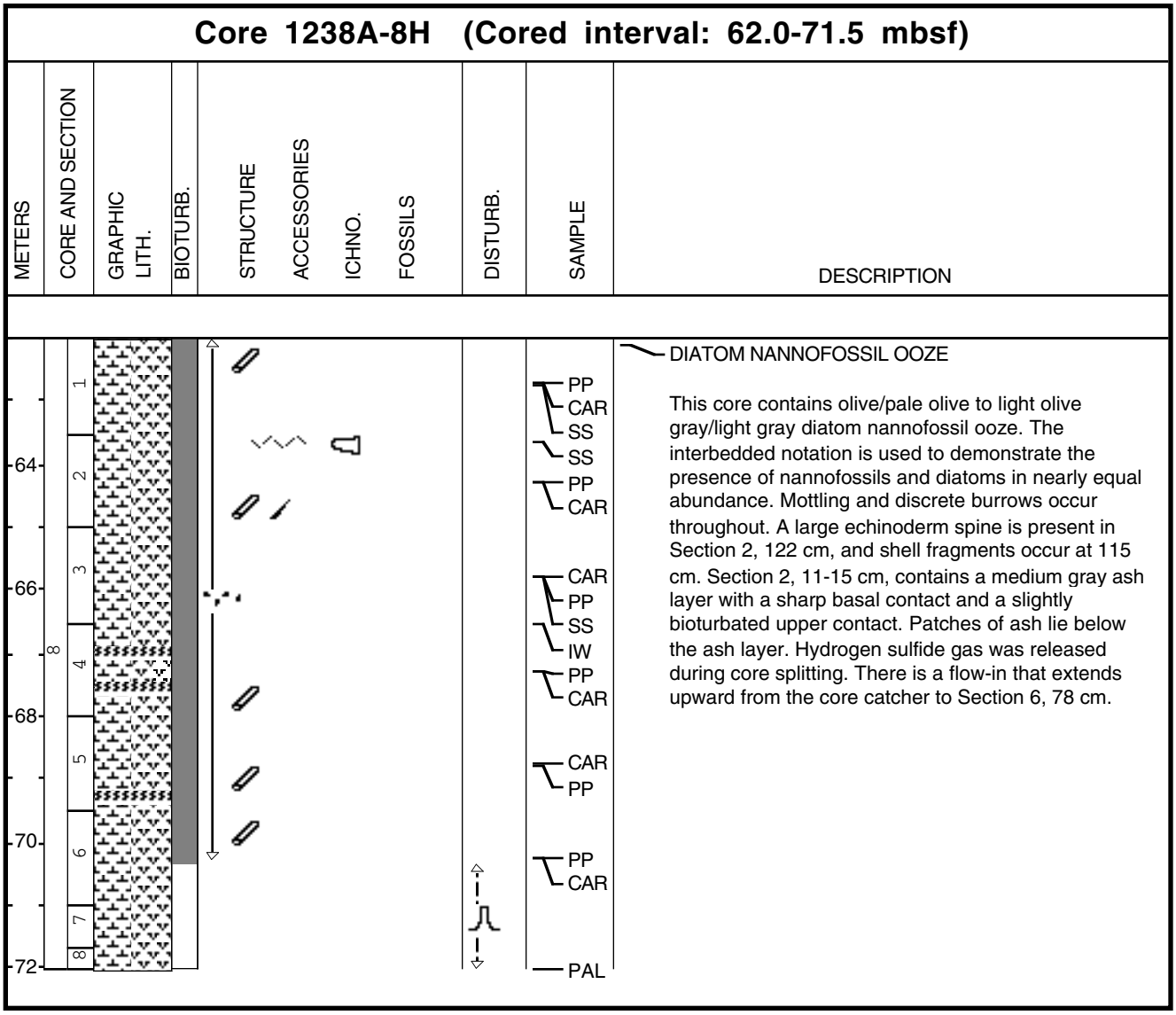
FORAMINIFER-NANNOFOSSIL OOZE and CLAY-BEARING NANNOFOSSIL OOZE

This core contains foraminifer-nannofossil ooze and clay-bearing nannofossil ooze. A layer of diatom nannofossil ooze occurs in Section 3, 123 cm, as a minor lithology. Sediment color ranges from darker pale olive to lighter pale olive with bioturbated transitions. Mottles and discrete burrows occur throughout and are noted where particularly abundant. Black specks are present on the sediment surface due to sulfides, and hydrogen sulfide gas was released during core splitting. Sections 6-7 and the core catcher contain flow-in.

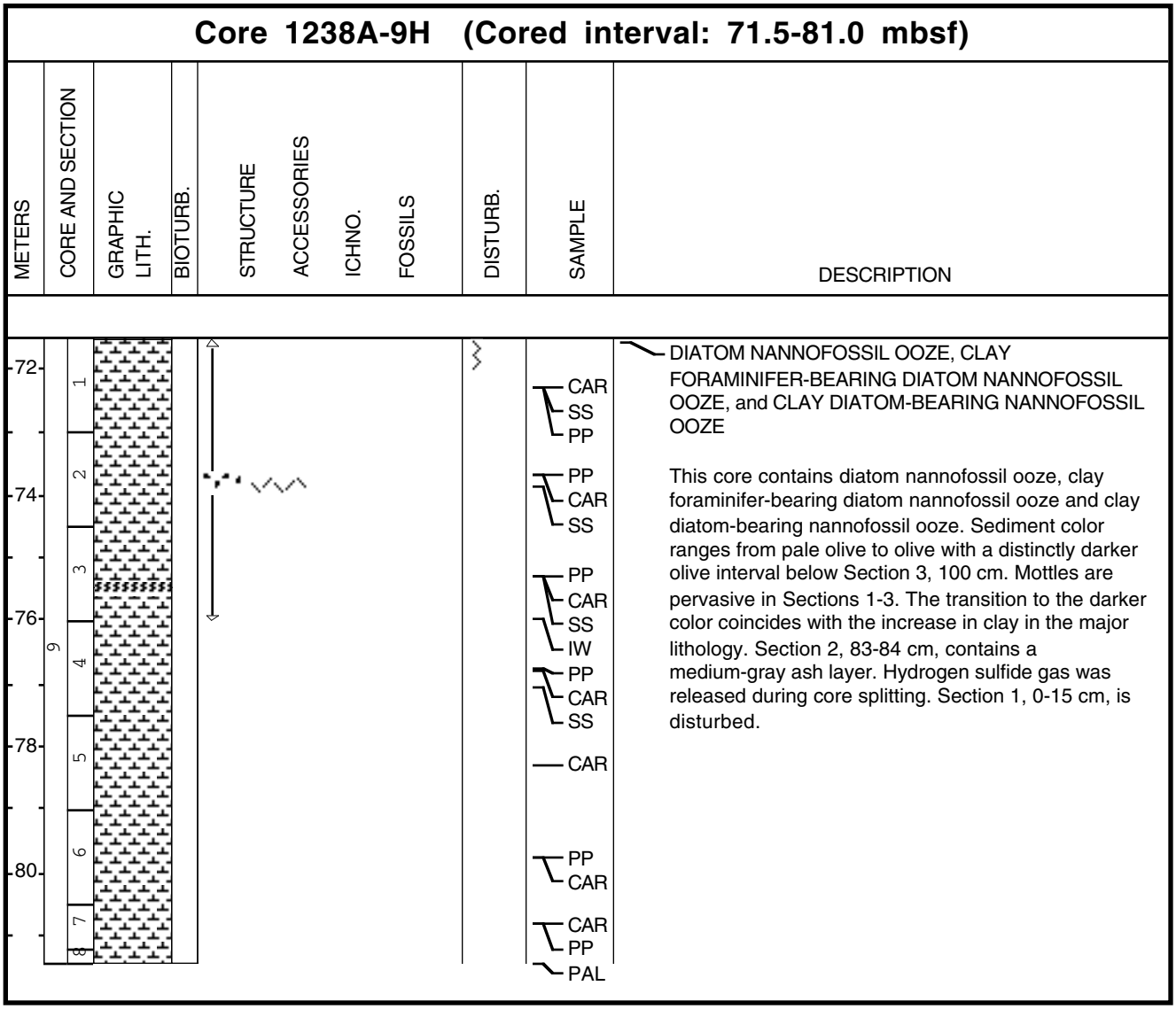
Core Photo


Core 1238A-7H (Cored interval: 52.5-62.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
54
56
58
60
62
7
1
2
3
4
5
6
7
8
PP
CAR
SS
PP
CAR
SS
PP
SS
CAR
IW
CAR
PP
PP
CAR
PP
CAR
PP
CAR
PAL
DIATOM NANNOFOSSIL OOZE and NANNOFOSSIL DIATOM OOZE
This core contains pale olive to olive gray diatom nannofossil ooze and nannofossil diatom ooze. The two biogenic components, diatoms and nannofossils, are in nearly equal amounts and their relative abundances fluctuate throughout the core. The interbedded notation is used to acknowledge this fact. The sediment is highly mottled and some discrete burrows occur. The pale olive intervals contain more evidence of bioturbation than the darker intervals. Sulfides, as evidenced by black specks on the sediment surface, occur throughout, and are most abundant in Sections 1 and 5. Hydrogen sulfide gas was released during core splitting. The uppermost 10 cm of Section 1 are disturbed.

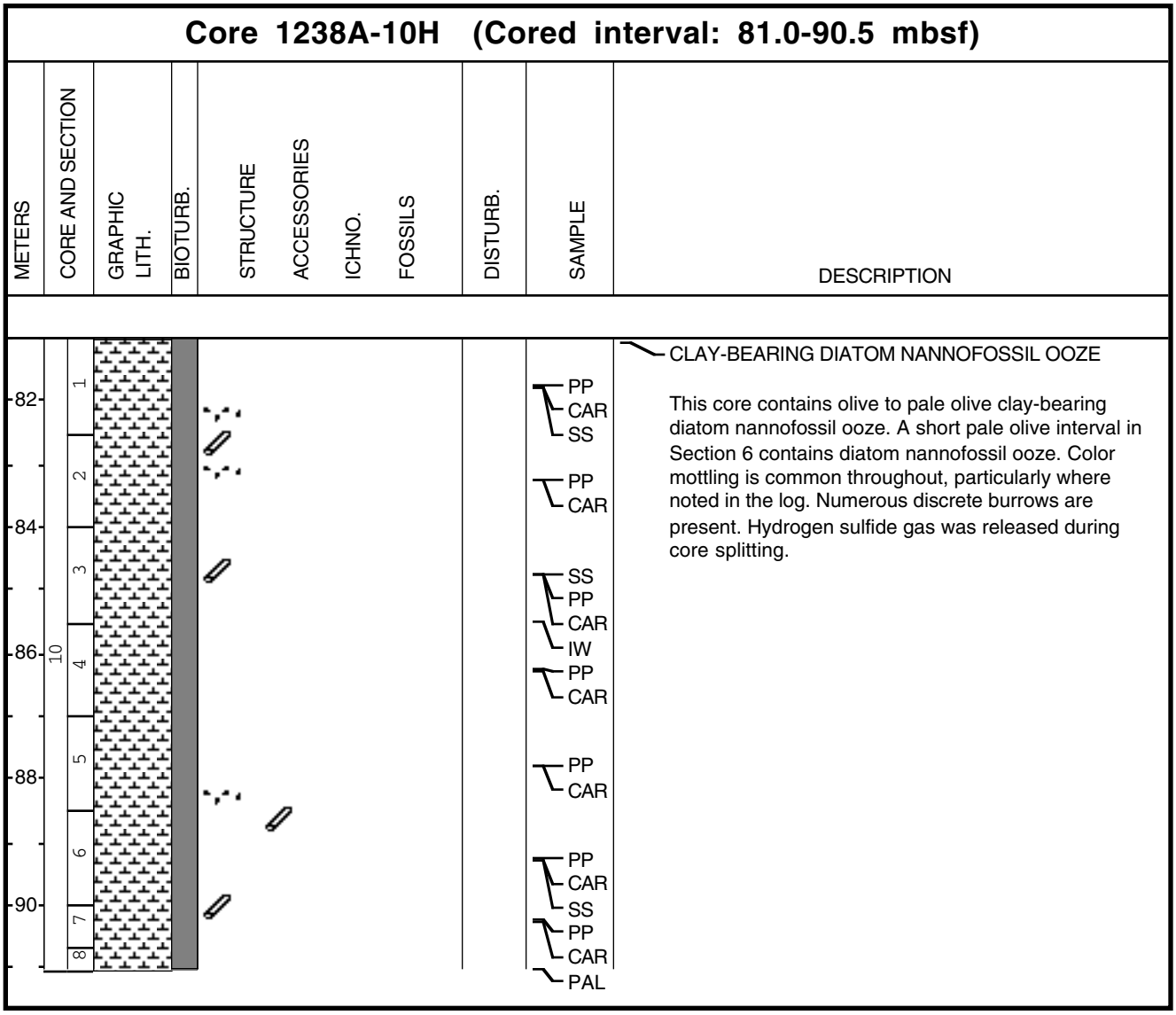
Core Photo


Core 1238A-8H (Cored interval: 62.0-71.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
64
66
68
70
72
8
1
2
3
4
5
6
7
8
PP
CAR
SS
SS
PP
CAR
CAR
PP
SS
IW
PP
CAR
CAR
PP
PP
CAR
PAL
DIATOM NANNOFOSSIL OOZE
This core contains olive/pale olive to light olive gray/light gray diatom nannofossil ooze. The interbedded notation is used to demonstrate the presence of nannofossils and diatoms in nearly equal abundance. Mottling and discrete burrows occur throughout. A large echinoderm spine is present in Section 2, 122 cm, and shell fragments occur at 115 cm. Section 2, 11-15 cm, contains a medium gray ash layer with a sharp basal contact and a slightly bioturbated upper contact. Patches of ash lie below the ash layer. Hydrogen sulfide gas was released during core splitting. There is a flow-in that extends upward from the core catcher to Section 6, 78 cm.

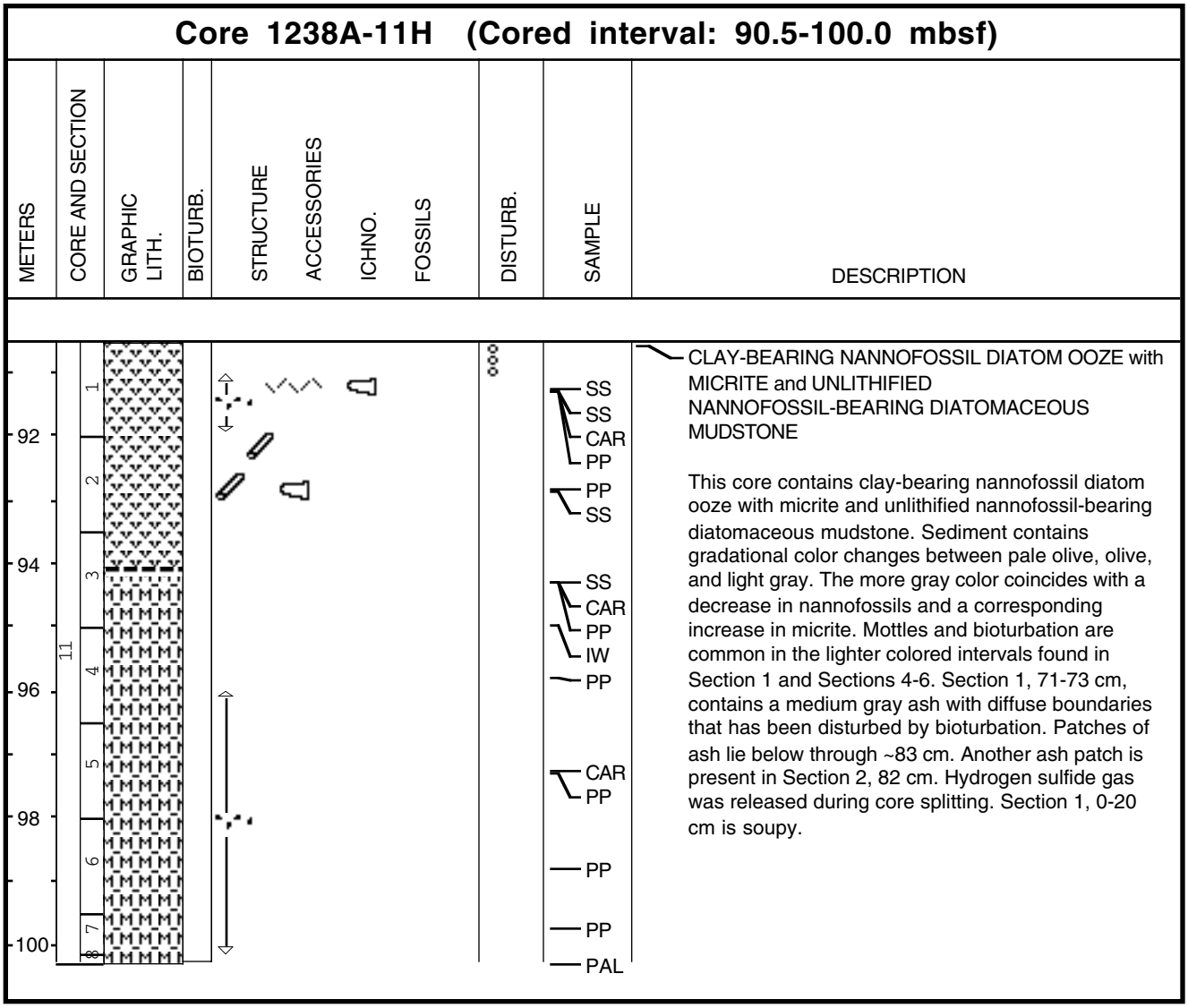
Core Photo


Core 1238A-9H (Cored interval: 71.5-81.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
72
74
76
78
80
9
1
2
3
4
5
6
7
8
CAR
SS
PP
PP
CAR
SS
PP
CAR
SS
IW
PP
CAR
SS
CAR
PP
CAR
CAR
PP
PAL
DIATOM NANNOFOSSIL OOZE, CLAY
FORAMINIFER-BEARING DIATOM NANNOFOSSIL OOZE, and CLAY DIATOM-BEARING NANNOFOSSIL OOZE
This core contains diatom nannofossil ooze, clay foraminifer-bearing diatom nannofossil ooze and clay diatom-bearing nannofossil ooze. Sediment color ranges from pale olive to olive with a distinctly darker olive interval below Section 3, 100 cm. Mottles are pervasive in Sections 1-3. The transition to the darker color coincides with the increase in clay in the major lithology. Section 2, 83-84 cm, contains a medium-gray ash layer. Hydrogen sulfide gas was released during core splitting. Section 1, 0-15 cm, is disturbed.

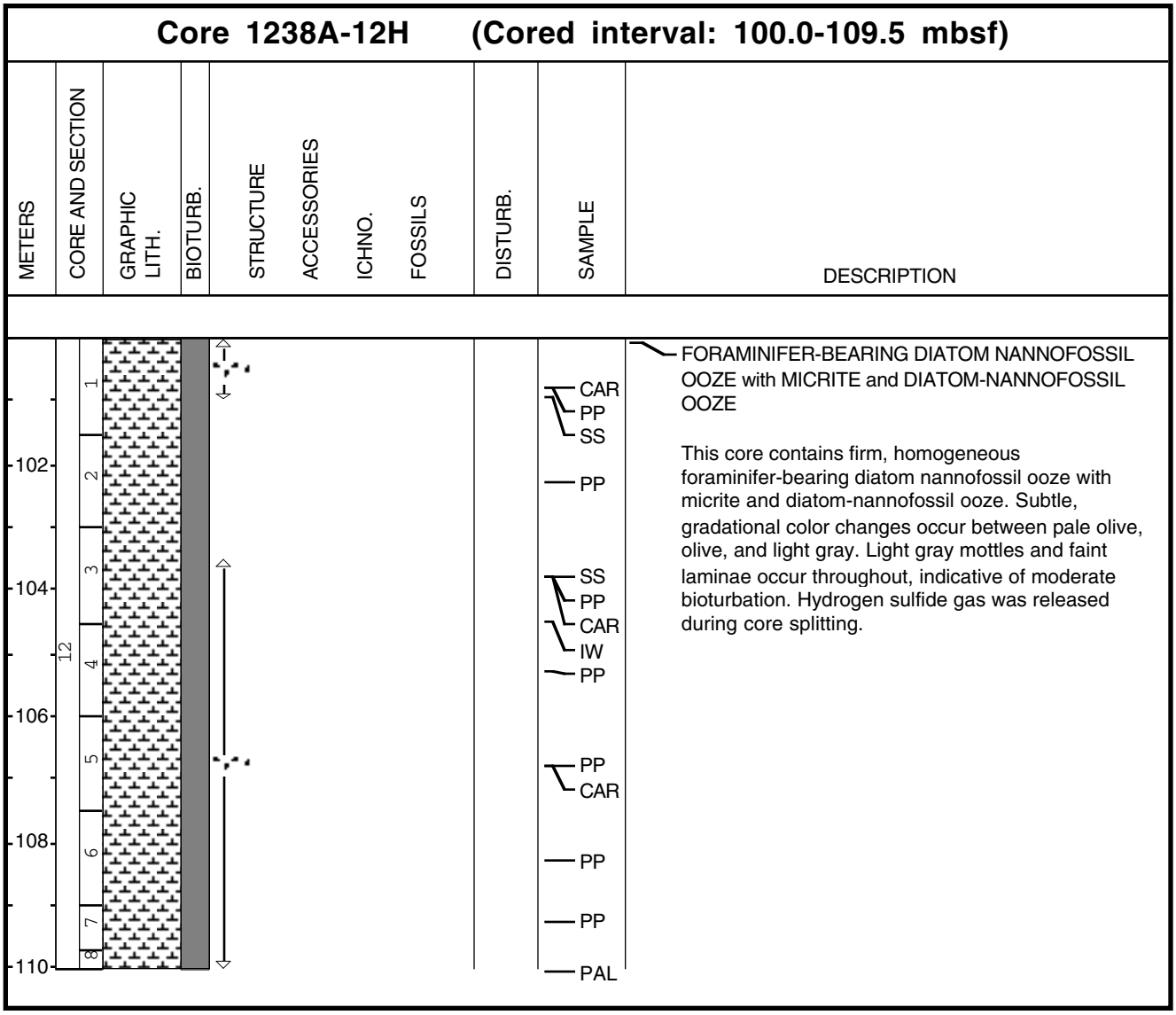
Core Photo


Core 1238A-10H (Cored interval: 81.0-90.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
82
84
86
88
90
10
1
2
3
4
5
6
7
8
PP
CAR
SS
PP
CAR
SS
PP
CAR
IW
PP
CAR
PP
CAR
PP
CAR
SS
PP
CAR
PAL
CLAY-BEARING DIATOM NANNOFOSSIL OOZE
This core contains olive to pale olive clay-bearing diatom nannofossil ooze. A short pale olive interval in Section 6 contains diatom nannofossil ooze. Color mottling is common throughout, particularly where noted in the log. Numerous discrete burrows are present. Hydrogen sulfide gas was released during core splitting.

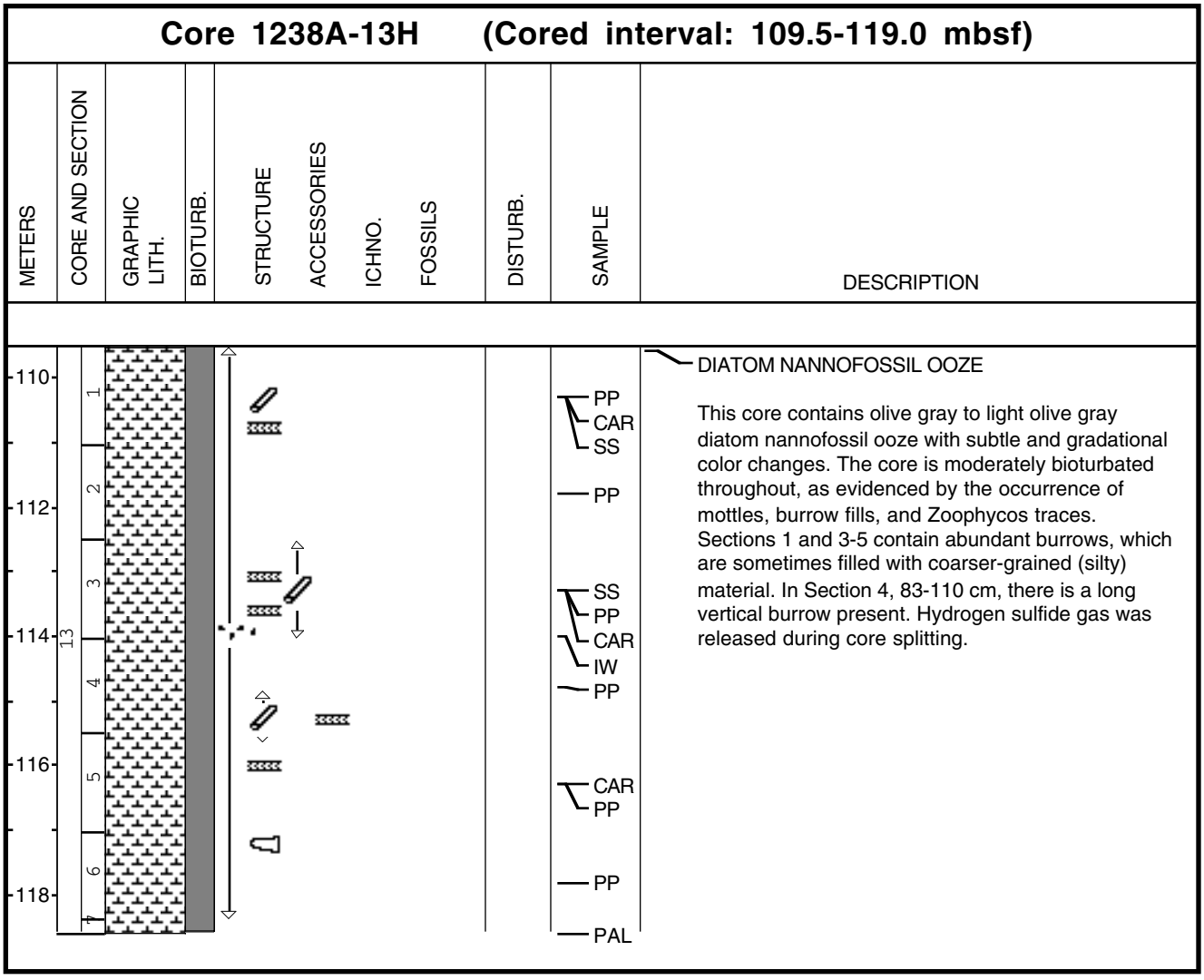
Core Photo


Core 1238A-11H (Cored interval: 90.5-100.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
92
94
96
98
100
11
1
2
3
4
5
6
7
CC
SS
SS
CAR
PP
PP
SS
SS
CAR
PP
IW
PP
CAR
PP
PP
PP
PAL
CLAY-BEARING NANNOFOSSIL DIATOM OOZE with MICRITE and UNLITHIFIED NANNOFOSSIL-BEARING DIATOMACEOUS MUDSTONE
This core contains clay-bearing nannofossil diatom ooze with micrite and unlithified nannofossil-bearing diatomaceous mudstone. Sediment contains gradational color changes between pale olive, olive, and light gray. The more gray color coincides with a decrease in nannofossils and a corresponding increase in micrite. Mottles and bioturbation are common in the lighter colored intervals found in Section 1 and Sections 4-6. Section 1, 71-73 cm, contains a medium gray ash with diffuse boundaries that has been disturbed by bioturbation. Patches of ash lie below through ~83 cm. Another ash patch is present in Section 2, 82 cm. Hydrogen sulfide gas was released during core splitting. Section 1, 0-20 cm is soupy.

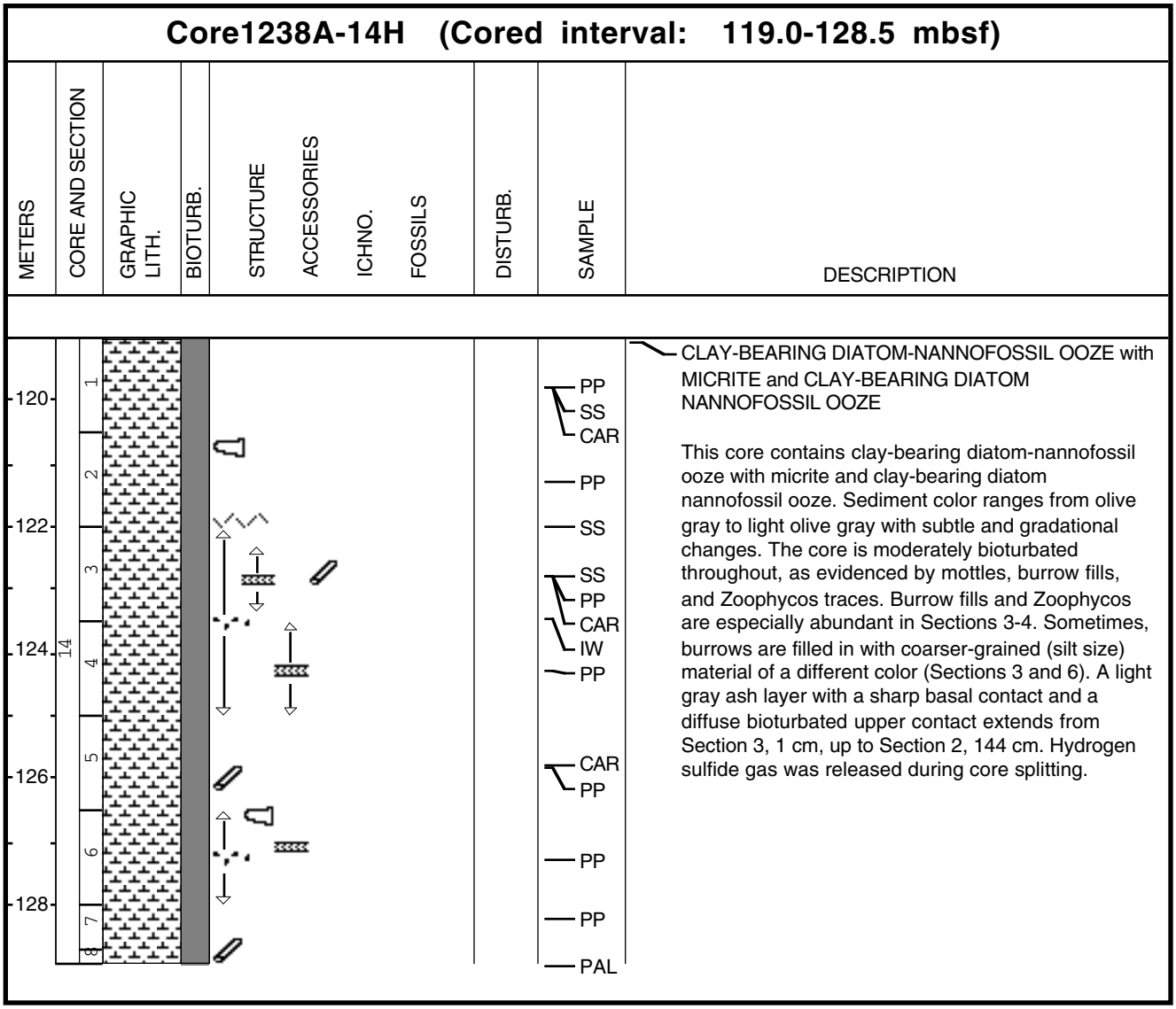
Core Photo


Core 1238A-12H (Cored interval: 100.0-109.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
102
104
106
108
110
12
1
2
3
4
5
6
7
8
CAR
PP
SS
PP
SS
PP
CAR
IW
PP
PP
CAR
PP
PP
PAL
FORAMINIFER-BEARING DIATOM NANNOFOSSIL OOZE with MICRITE and DIATOM-NANNOFOSSIL OOZE
This core contains firm, homogeneous foraminifer-bearing diatom nannofossil ooze with micrite and diatom-nannofossil ooze. Subtle, gradational color changes occur between pale olive, olive, and light gray. Light gray mottles and faint laminae occur throughout, indicative of moderate bioturbation. Hydrogen sulfide gas was released during core splitting.

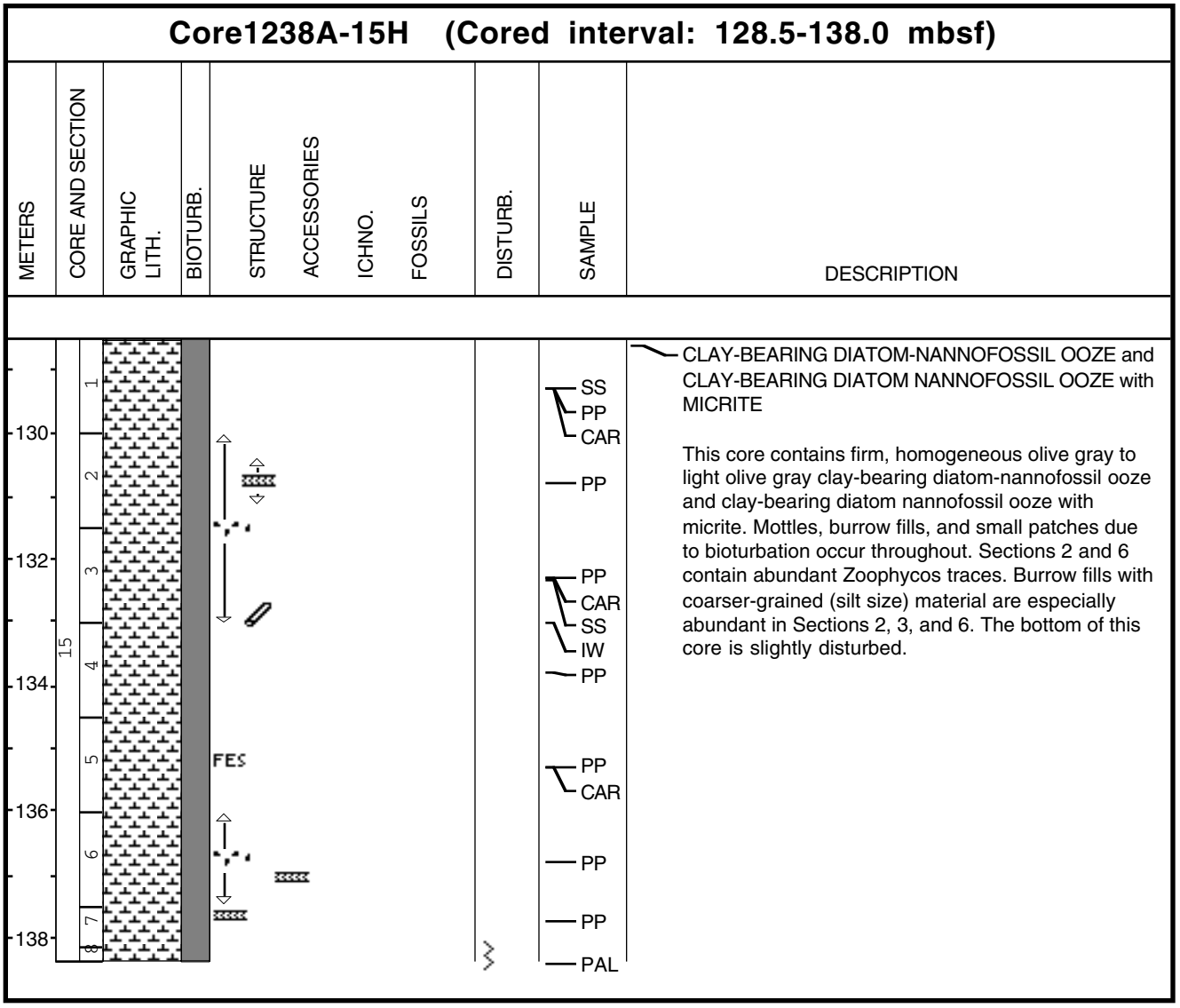
Core Photo


Core 1238A-13H (Cored interval: 109.5-119.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
110
112
114
116
118
13
1
2
3
4
5
6
PP
CAR
SS
PP
SS
PP
CAR
IW
PP
CAR
PP
PP
PAL
DIATOM NANNOFOSSIL OOZE
This core contains olive gray to light olive gray diatom nannofossil ooze with subtle and gradational color changes. The core is moderately bioturbated throughout, as evidenced by the occurrence of mottles, burrow fills, and Zoophycos traces. Sections 1 and 3-5 contain abundant burrows, which are sometimes filled with coarser-grained (silty) material. In Section 4, 83-110 cm, there is a long vertical burrow present. Hydrogen sulfide gas was released during core splitting.

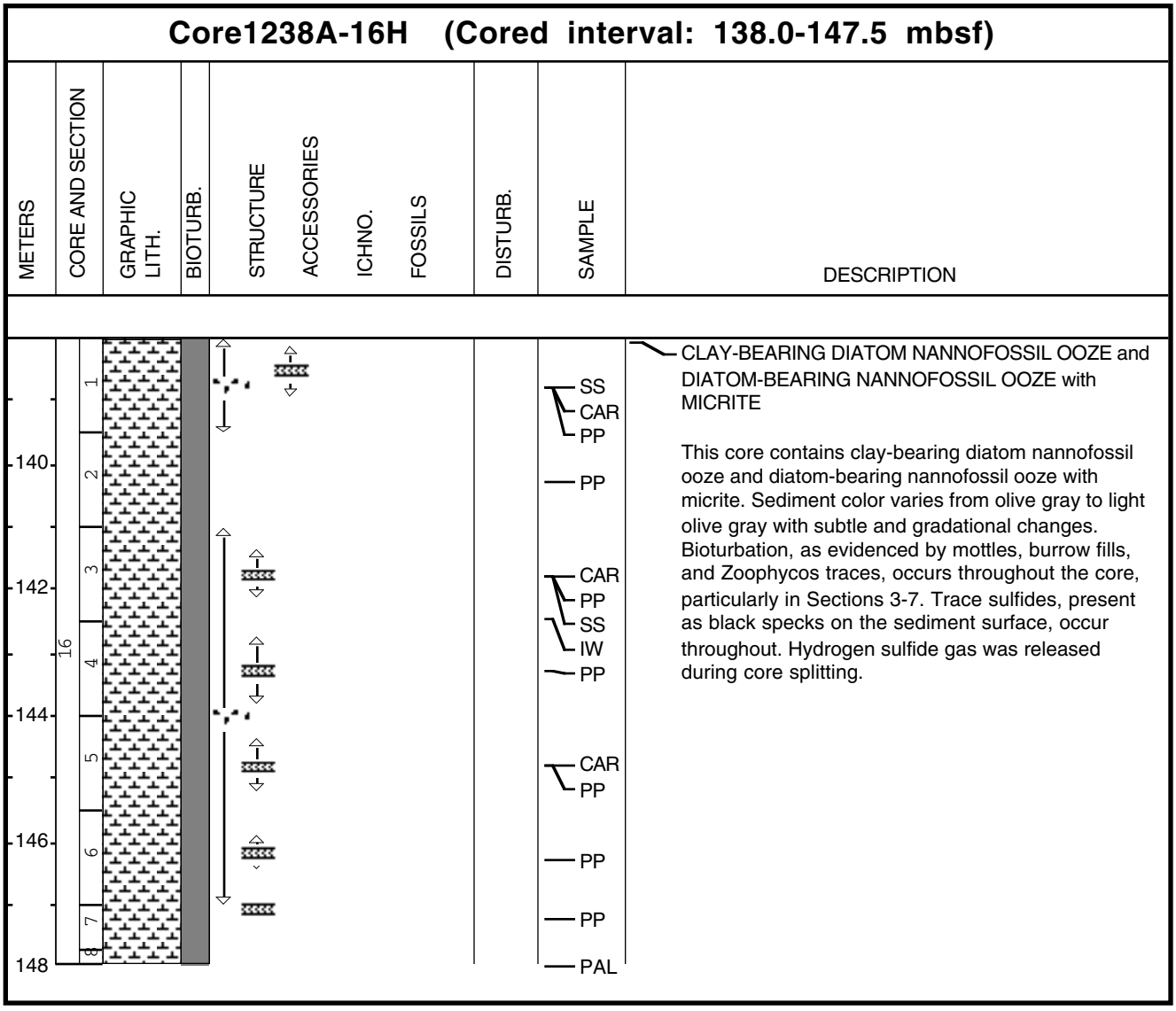
Core Photo


Core1238A-14H (Cored interval: 119.0-128.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
120
122
124
126
128
14
1
2
3
4
5
6
7
8
PP
SS
CAR
PP
SS
SS
PP
CAR
IW
PP
CAR
PP
PP
PP
PAL
CLAY-BEARING DIATOM-NANNOFOSSIL OOZE with MICRITE and CLAY-BEARING DIATOM NANNOFOSSIL OOZE
This core contains clay-bearing diatom-nannofossil ooze with micrite and clay-bearing diatom nannofossil ooze. Sediment color ranges from olive gray to light olive gray with subtle and gradational changes. The core is moderately bioturbated throughout, as evidenced by mottles, burrow fills, and Zoophycos traces. Burrow fills and Zoophycos are especially abundant in Sections 3-4. Sometimes, burrows are filled in with coarser-grained (silt size) material of a different color (Sections 3 and 6). A light gray ash layer with a sharp basal contact and a diffuse bioturbated upper contact extends from Section 3, 1 cm, up to Section 2, 144 cm. Hydrogen sulfide gas was released during core splitting.

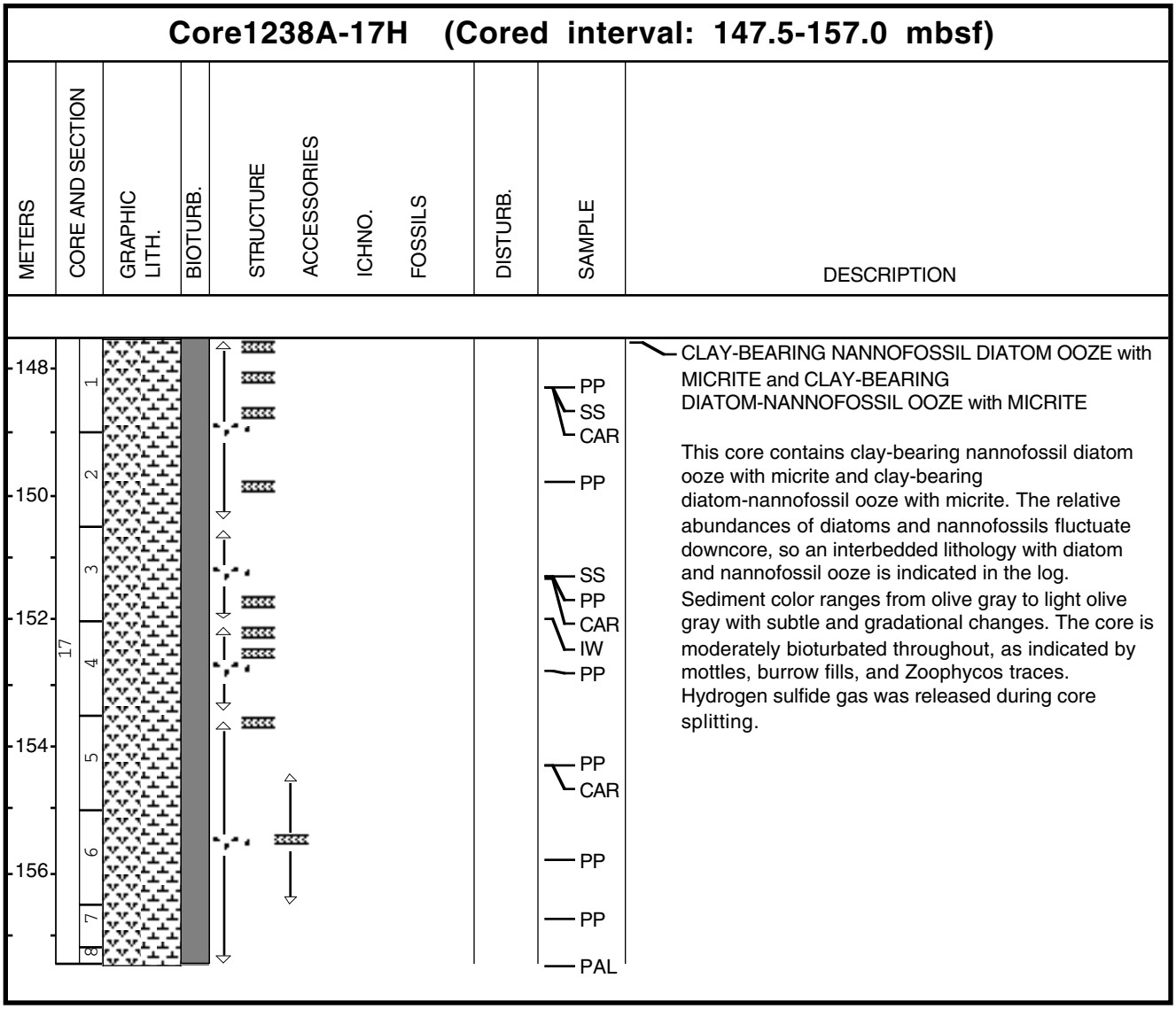
Core Photo


Core1238A-15H (Cored interval: 128.5-138.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
130
132
134
136
138
15
1
2
3
4
5
6
7
8
FES
SS
PP
CAR
PP
PP
CAR
SS
IW
PP
PP
CAR
PP
PP
PAL
CLAY-BEARING DIATOM-NANNOFOSSIL OOZE and CLAY-BEARING DIATOM NANNOFOSSIL OOZE with MICRITE
This core contains firm, homogeneous olive gray to light olive gray clay-bearing diatom-nannofossil ooze and clay-bearing diatom nannofossil ooze with micrite. Mottles, burrow fills, and small patches due to bioturbation occur throughout. Sections 2 and 6 contain abundant Zoophycos traces. Burrow fills with coarser-grained (silt size) material are especially abundant in Sections 2, 3, and 6. The bottom of this core is slightly disturbed.

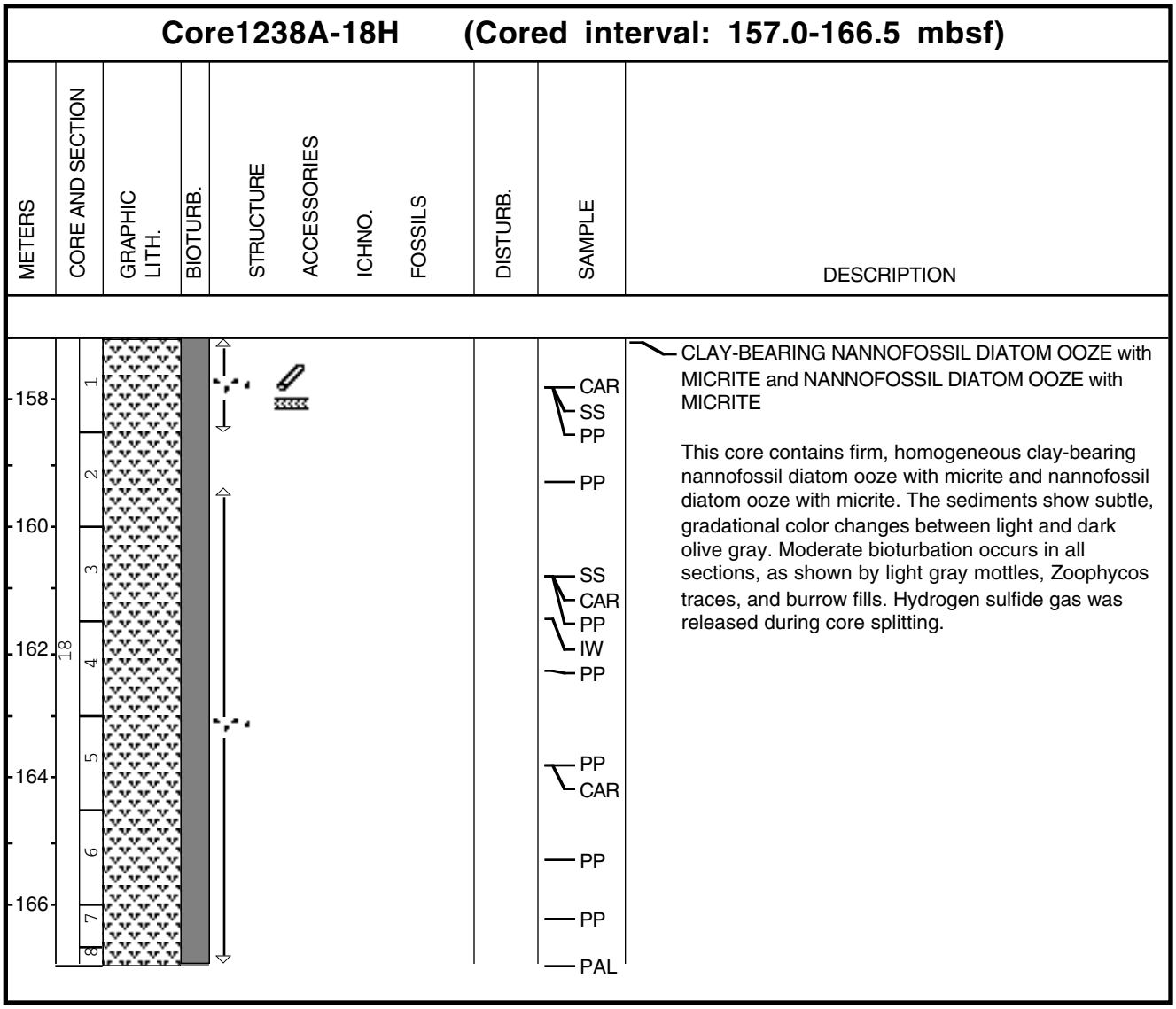
Core Photo


Core1238A-16H (Cored interval: 138.0-147.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
140
142
144
146
148
16
1
2
3
4
5
6
7
8
SS
CAR
PP
PP
CAR
PP
SS
IW
PP
CAR
PP
PP
PP
PAL
CLAY-BEARING DIATOM NANNOFOSSIL OOZE and DIATOM-BEARING NANNOFOSSIL OOZE with MICRITE
This core contains clay-bearing diatom nannofossil ooze and diatom-bearing nannofossil ooze with micrite. Sediment color varies from olive gray to light olive gray with subtle and gradational changes. Bioturbation, as evidenced by mottles, burrow fills, and Zoophycos traces, occurs throughout the core, particularly in Sections 3-7. Trace sulfides, present as black specks on the sediment surface, occur throughout. Hydrogen sulfide gas was released during core splitting.

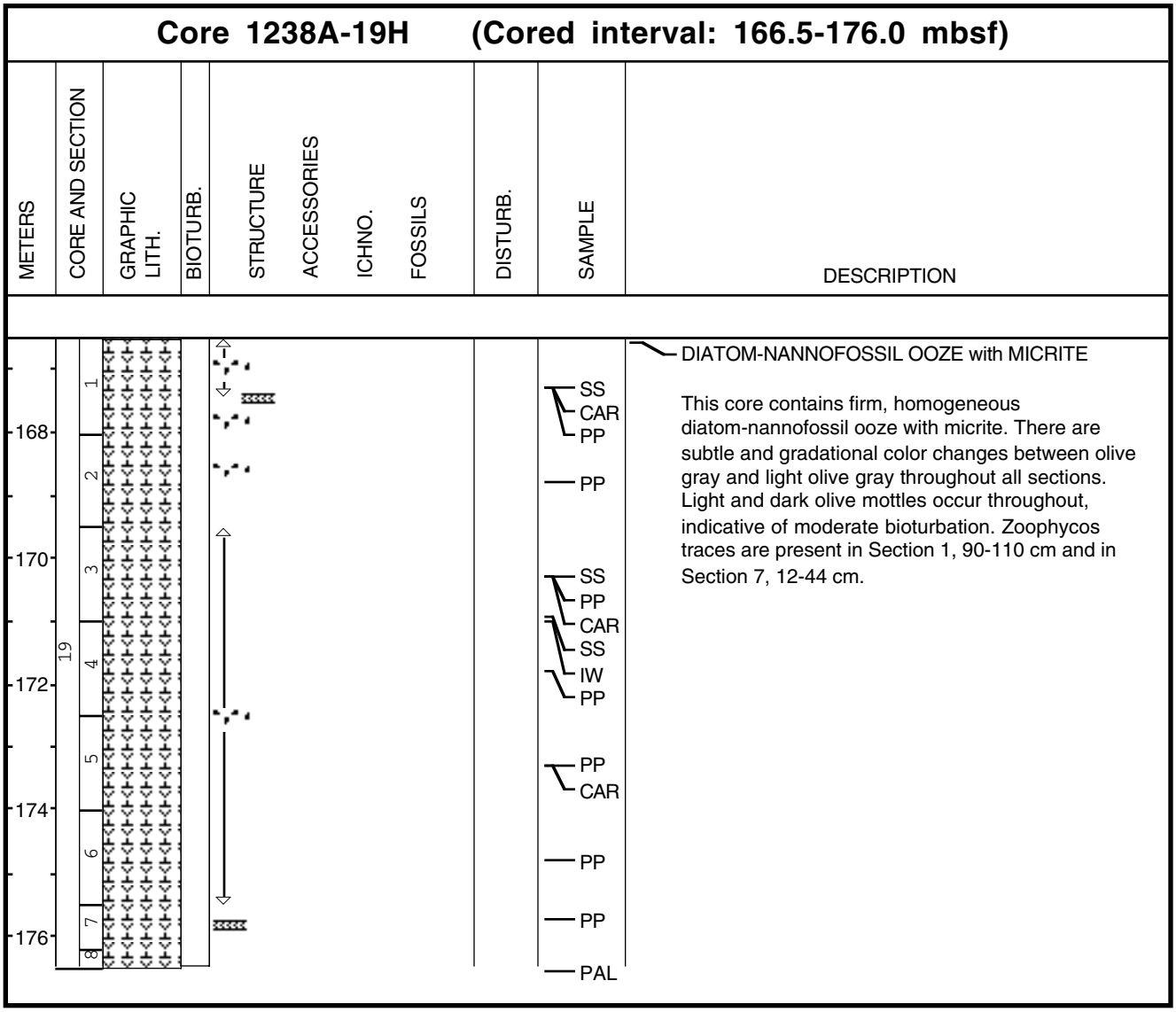
Core Photo


Core1238A-17H (Cored interval: 147.5-157.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
148
150
152
154
156
17
1
2
3
4
5
6
7
8
PP
SS
CAR
PP
SS
PP
CAR
IW
PP
PP
CAR
PP
PP
PAL
CLAY-BEARING NANNOFOSSIL DIATOM OOZE with MICRITE and CLAY-BEARING DIATOM-NANNOFOSSIL OOZE with MICRITE
This core contains clay-bearing nannofossil diatom ooze with micrite and clay-bearing diatom-nannofossil ooze with micrite. The relative abundances of diatoms and nannofossils fluctuate downcore, so an interbedded lithology with diatom and nannofossil ooze is indicated in the log. Sediment color ranges from olive gray to light olive gray with subtle and gradational changes. The core is moderately bioturbated throughout, as indicated by mottles, burrow fills, and Zoophycos traces. Hydrogen sulfide gas was released during core splitting.

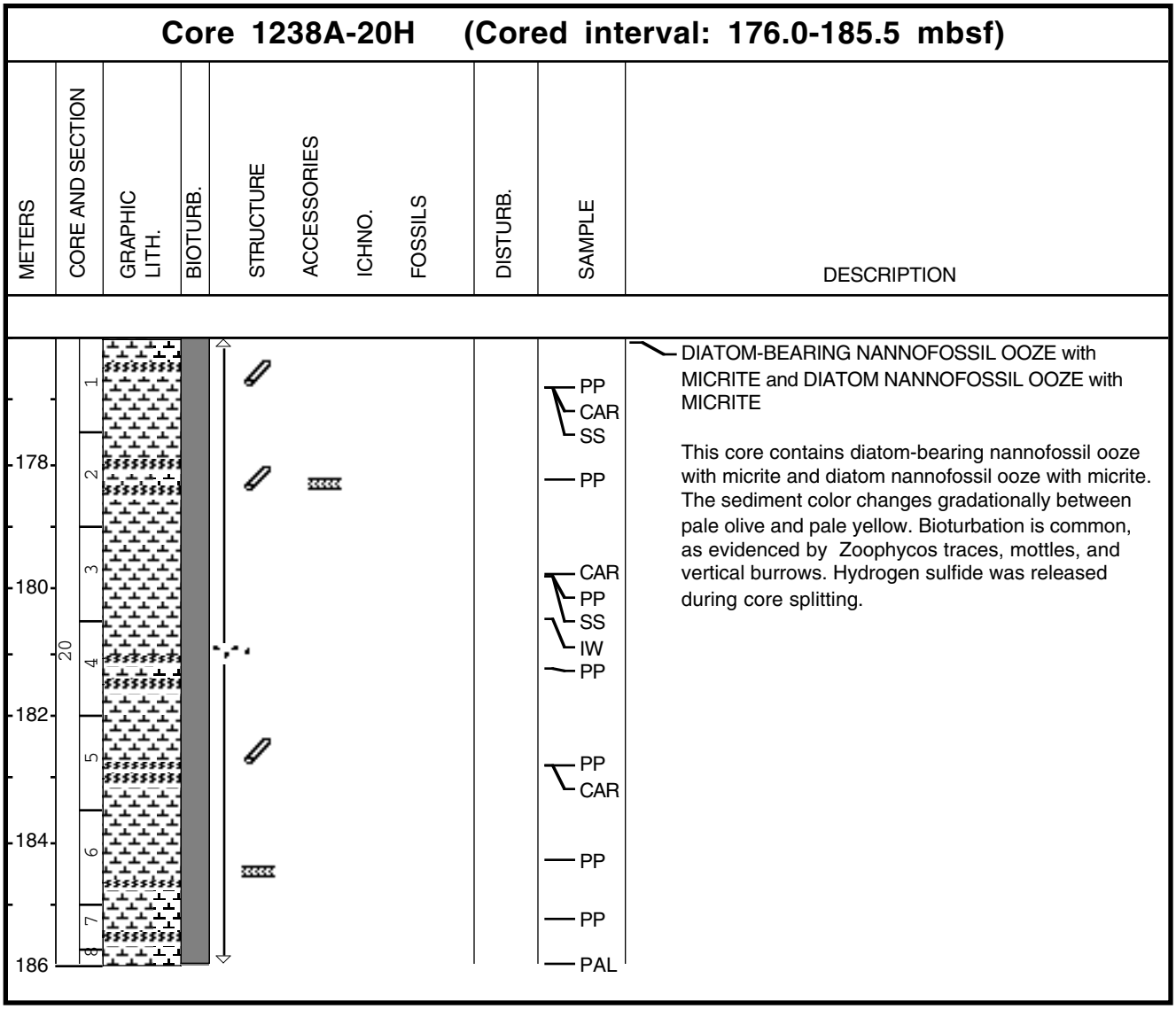
Core Photo


Core1238A-18H (Cored interval: 157.0-166.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
158
160
162
164
166
18
1
2
3
4
5
6
7
8
CAR
SS
PP
PP
SS
CAR
PP
IW
PP
PP
CAR
PP
PP
PAL
CLAY-BEARING NANNOFOSSIL DIATOM OOZE with MICRITE and NANNOFOSSIL DIATOM OOZE with MICRITE
This core contains firm, homogeneous clay-bearing nannofossil diatom ooze with micrite and nannofossil diatom ooze with micrite. The sediments show subtle, gradational color changes between light and dark olive gray. Moderate bioturbation occurs in all sections, as shown by light gray mottles, Zoophycos traces, and burrow fills. Hydrogen sulfide gas was released during core splitting.

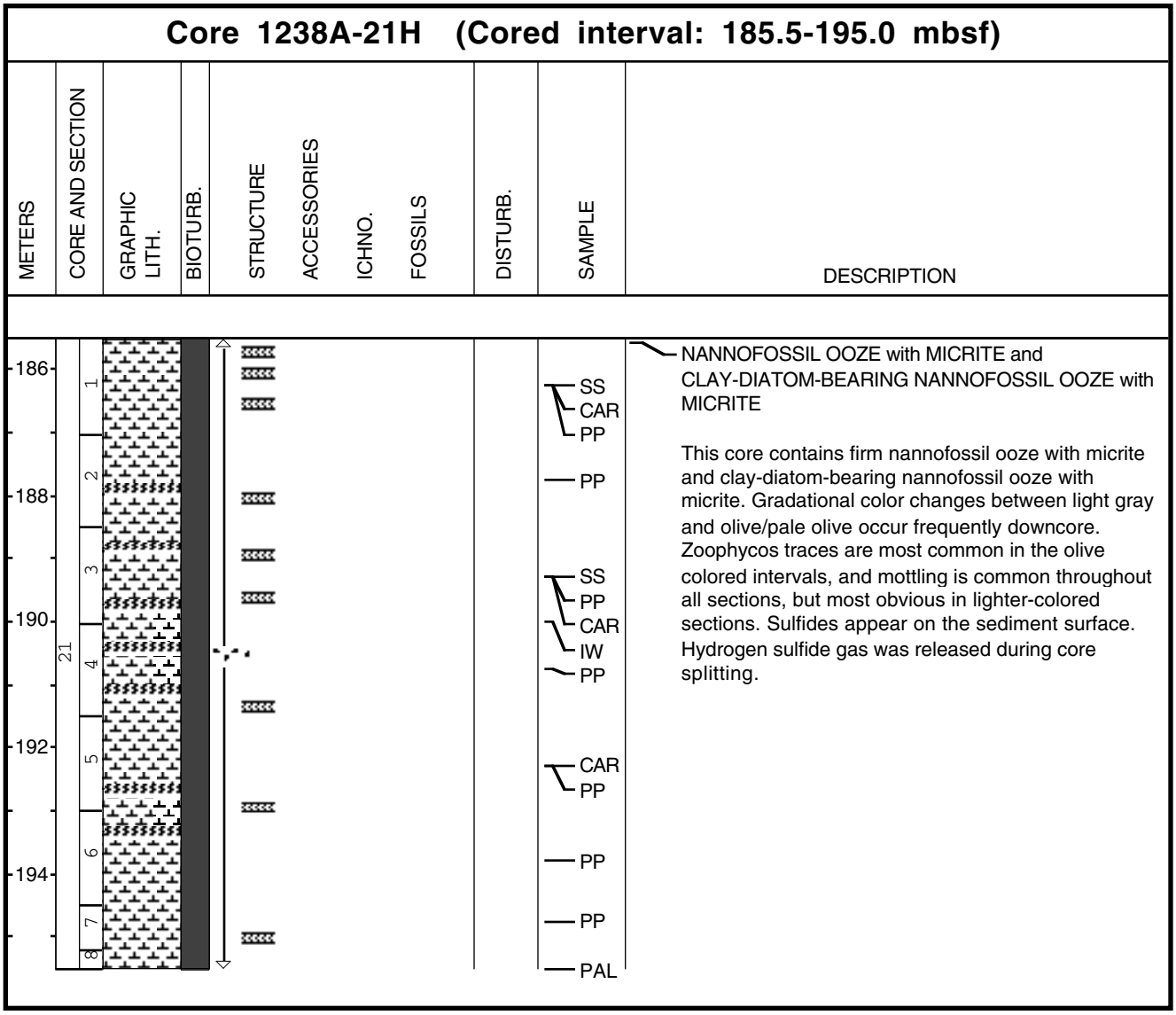
Core Photo


Core 1238A-19H (Cored interval: 166.5-176.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
168
170
172
174
176
19
1
2
3
4
5
6
7
CC
SS
CAR
PP
PP
SS
PP
CAR
SS
IW
PP
PP
CAR
PP
PP
PAL
DIATOM-NANNOFOSSIL OOZE with MICRITE
This core contains firm, homogeneous diatom-nannofossil ooze with micrite. There are subtle and gradational color changes between olive gray and light olive gray throughout all sections. Light and dark olive mottles occur throughout, indicative of moderate bioturbation. Zoophycos traces are present in Section 1, 90-110 cm and in Section 7, 12-44 cm.

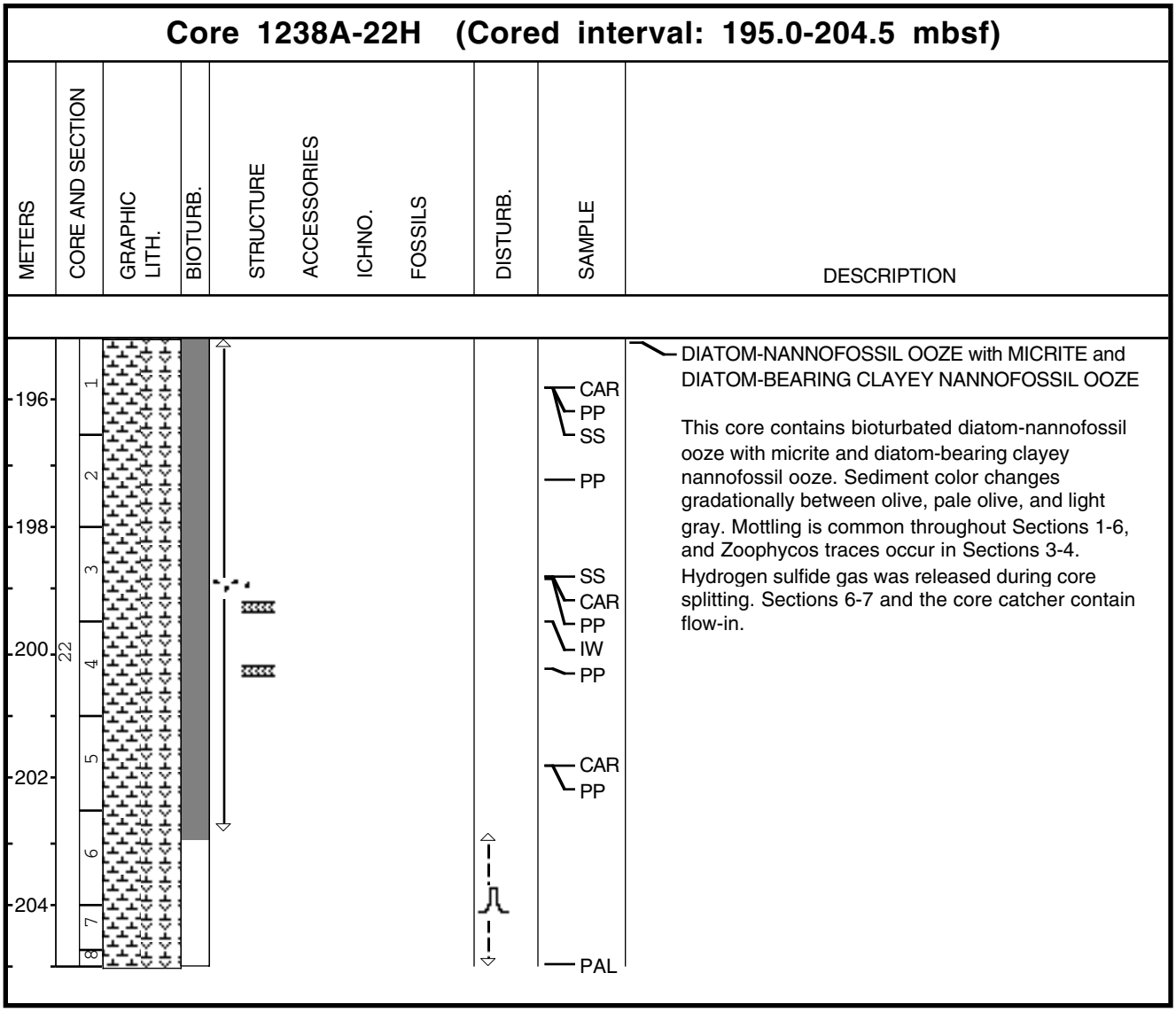
Core Photo


Core 1238A-20H (Cored interval: 176.0-185.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
178
180
182
184
186
20
1
2
3
4
5
6
7
8
PP
CAR
SS
PP
CAR
PP
SS
IW
PP
PP
CAR
PP
PP
PAL
DIATOM-BEARING NANNOFOSSIL OOZE with MICRITE and DIATOM NANNOFOSSIL OOZE with MICRITE
This core contains diatom-bearing nannofossil ooze with micrite and diatom nannofossil ooze with micrite. The sediment color changes gradationally between pale olive and pale yellow. Bioturbation is common, as evidenced by Zoophycos traces, mottles, and vertical burrows. Hydrogen sulfide was released during core splitting.

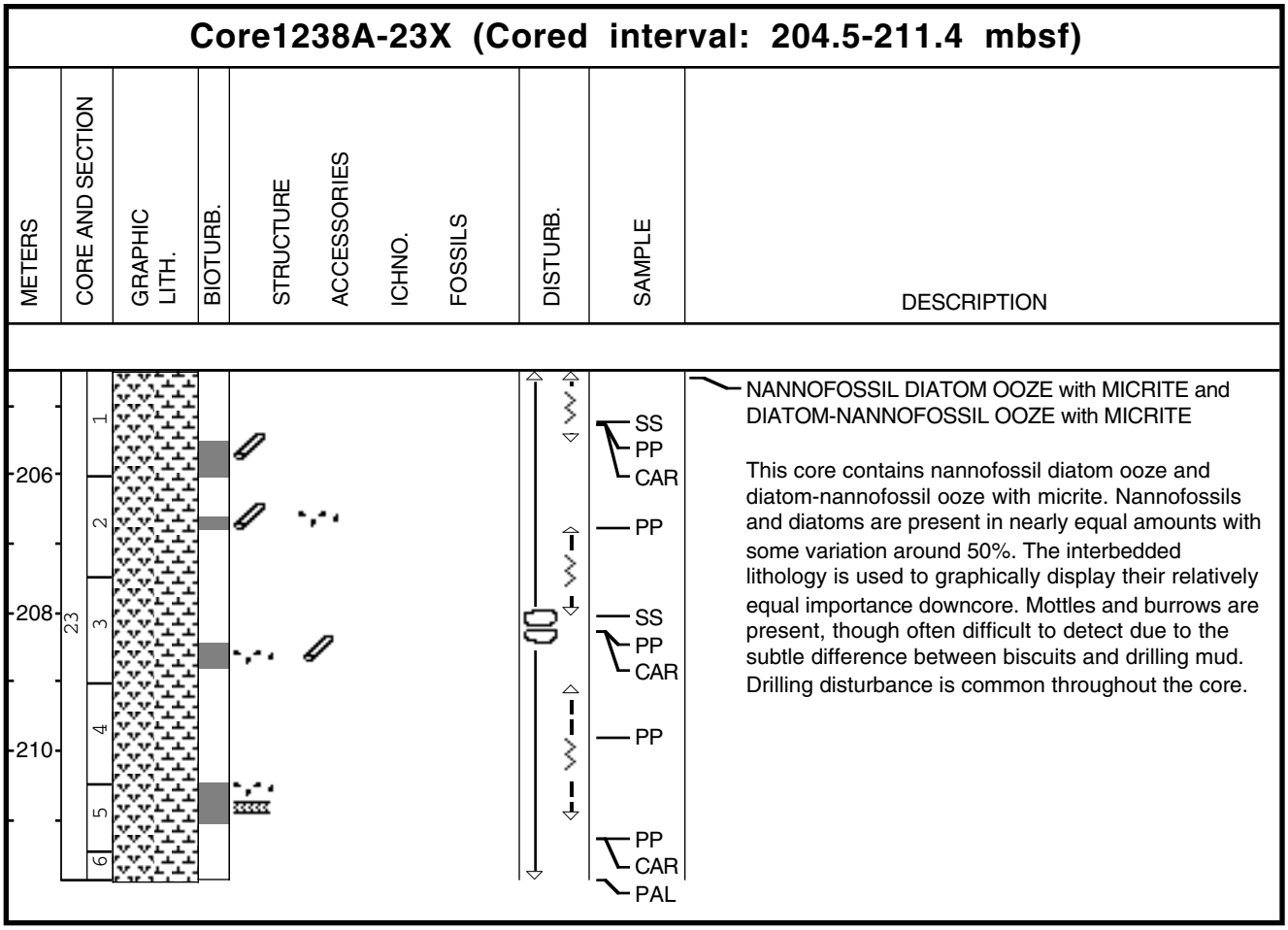
Core Photo


Core 1238A-21H (Cored interval: 185.5-195.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
186
188
190
192
194
21
1
2
3
4
5
6
7
CC
SS
CAR
PP
PP
SS
PP
CAR
IW
PP
CAR
PP
PP
PP
PAL
NANNOFOSSIL OOZE with MICRITE and CLAY-DIATOM-BEARING NANNOFOSSIL OOZE with MICRITE
This core contains firm nannofossil ooze with micrite and clay-diatom-bearing nannofossil ooze with micrite. Gradational color changes between light gray and olive/pale olive occur frequently downcore. Zoophycos traces are most common in the olive colored intervals, and mottling is common throughout all sections, but most obvious in lighter-colored sections. Sulfides appear on the sediment surface. Hydrogen sulfide gas was released during core splitting.

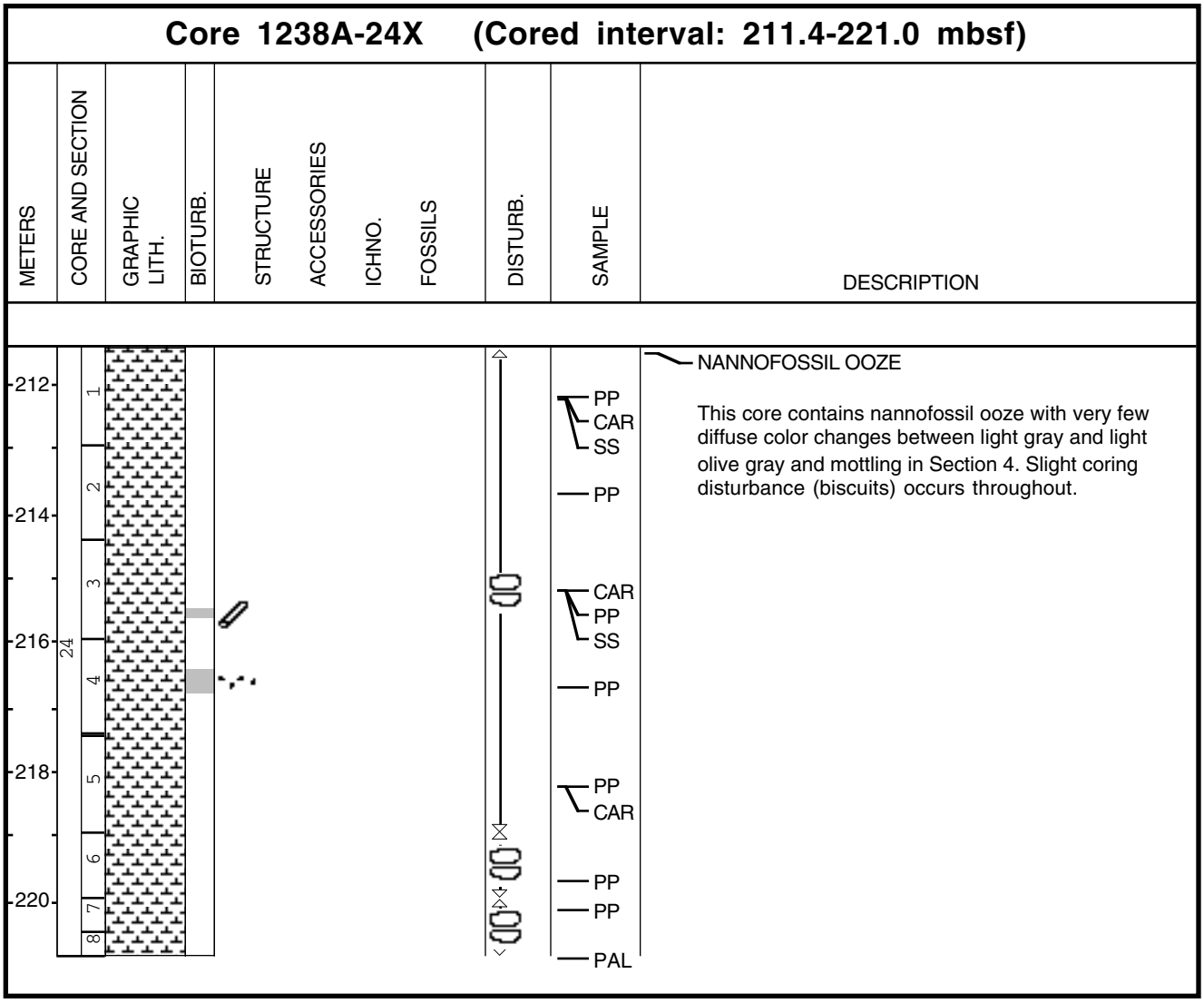
Core Photo


Core 1238A-22H (Cored interval: 195.0-204.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
196
198
200
202
204
22
1
2
3
4
5
6
7
8
CAR
PP
SS
PP
SS
CAR
PP
IW
PP
CAR
PP
PAL
DIATOM-NANNOFOSSIL OOZE with MICRITE and DIATOM-BEARING CLAYEY NANNOFOSSIL OOZE
This core contains bioturbated diatom-nannofossil ooze with micrite and diatom-bearing clayey nannofossil ooze. Sediment color changes gradationally between olive, pale olive, and light gray. Mottling is common throughout Sections 1-6, and Zoophycos traces occur in Sections 3-4. Hydrogen sulfide gas was released during core splitting. Sections 6-7 and the core catcher contain flow-in.

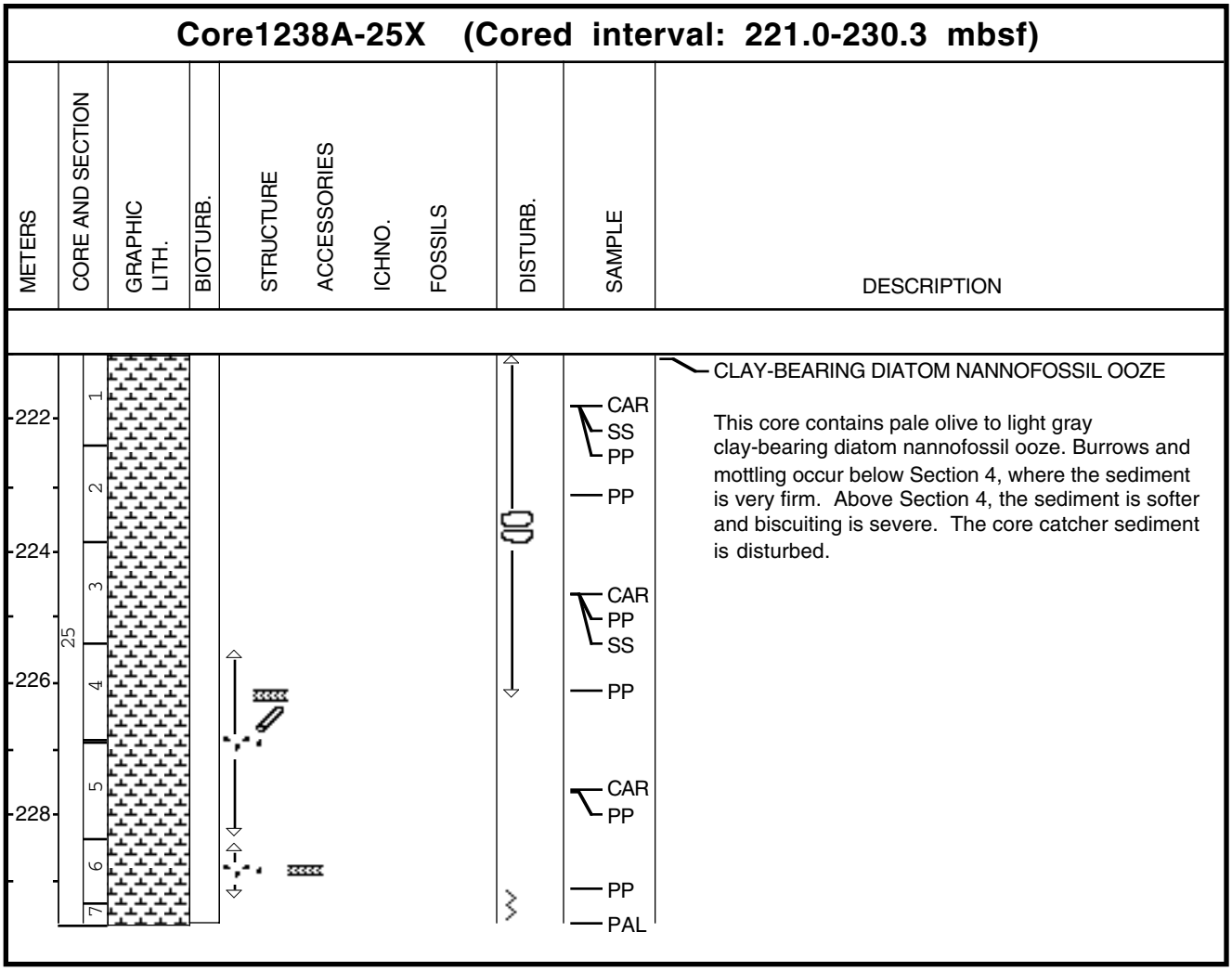
Core Photo


Core1238A-23X (Cored interval: 204.5-211.4 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
206
208
210
23
1
2
3
4
5
6
SS
PP
CAR
PP
SS
PP
CAR
PP
PP
CAR
PAL
NANNOFOSSIL DIATOM OOZE with MICRITE and DIATOM-NANNOFOSSIL OOZE with MICRITE
This core contains nannofossil diatom ooze and diatom-nannofossil ooze with micrite. Nannofossils and diatoms are present in nearly equal amounts with some variation around 50%. The interbedded lithology is used to graphically display their relatively equal importance downcore. Mottles and burrows are present, though often difficult to detect due to the subtle difference between biscuits and drilling mud. Drilling disturbance is common throughout the core.

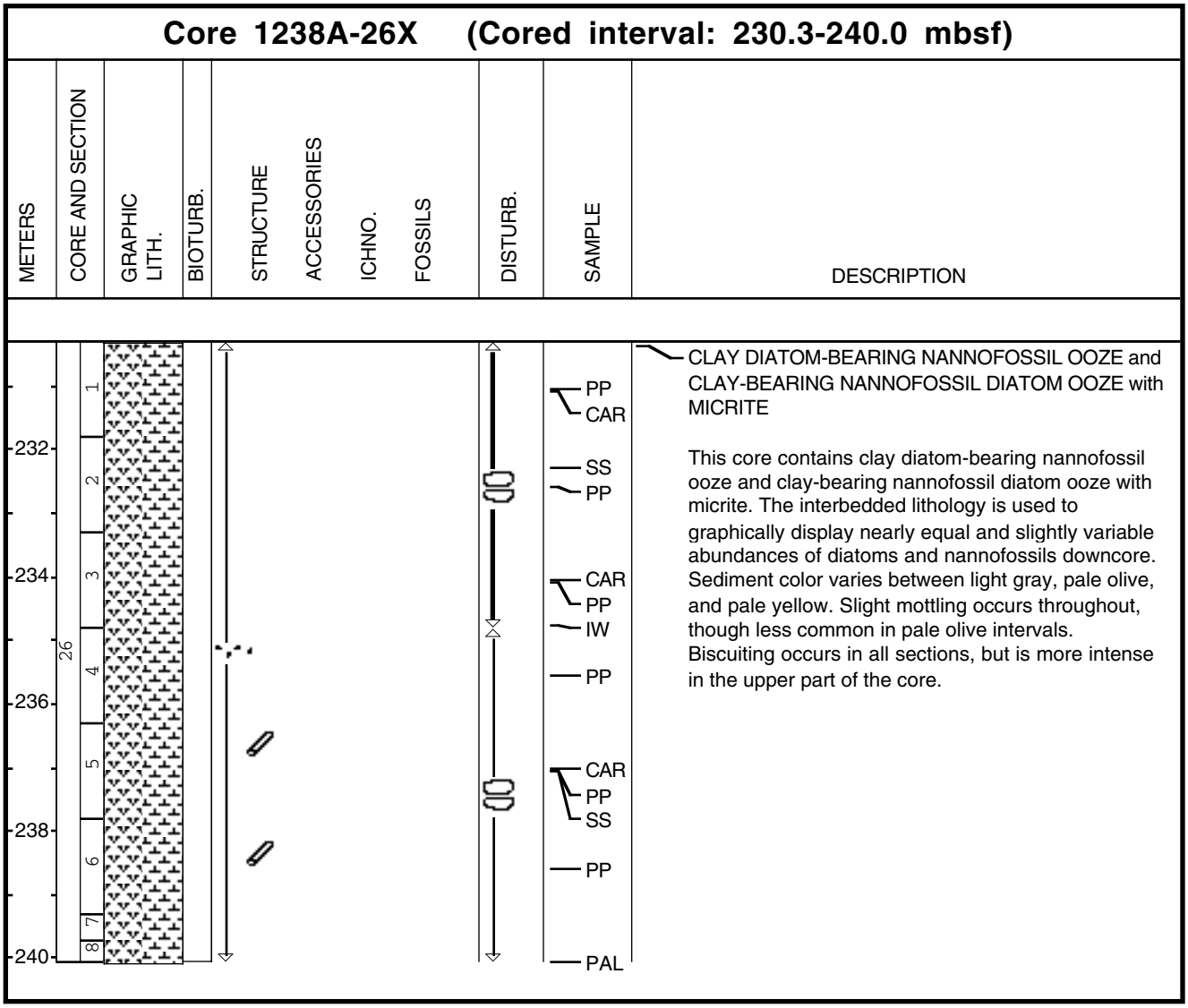
Core Photo


Core 1238A-24X (Cored interval: 211.4-221.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
212
214
216
218
220
24
1
2
3
4
5
6
7
8
PP
CAR
SS
PP
CAR
PP
SS
PP
PP
CAR
PP
PP
PAL
NANNOFOSSIL OOZE
This core contains nannofossil ooze with very few diffuse color changes between light gray and light olive gray and mottling in Section 4. Slight coring disturbance (biscuits) occurs throughout.

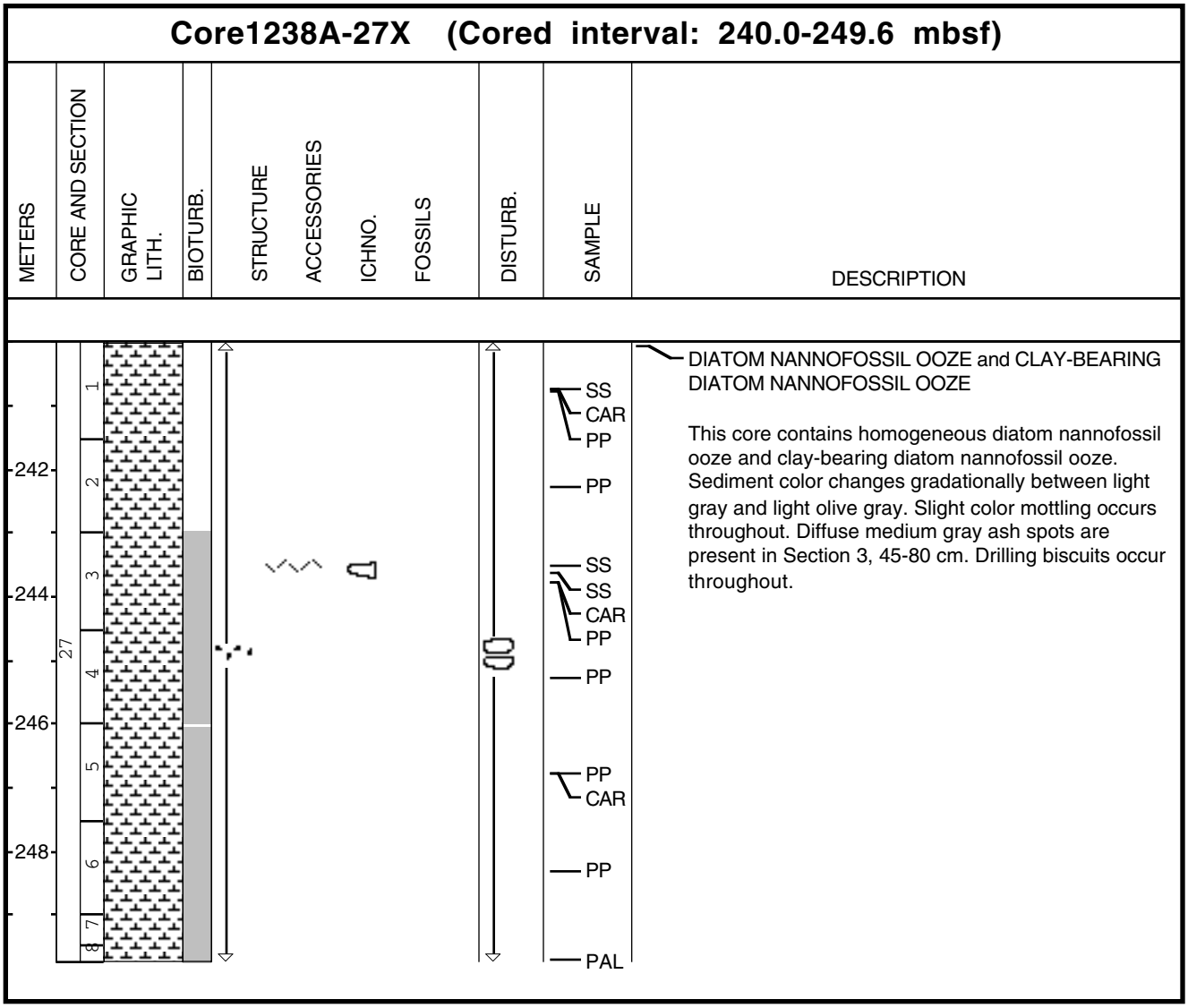
Core Photo


Core1238A-25X (Cored interval: 221.0-230.3 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
222
224
226
228
25
1
2
3
4
5
6
7
CAR
SS
PP
PP
CAR
PP
SS
PP
CAR
PP
PP
PAL
CLAY-BEARING DIATOM NANNOFOSSIL OOZE
This core contains pale olive to light gray clay-bearing diatom nannofossil ooze. Burrows and mottling occur below Section 4, where the sediment is very firm. Above Section 4, the sediment is softer and biscuiting is severe. The core catcher sediment is disturbed.

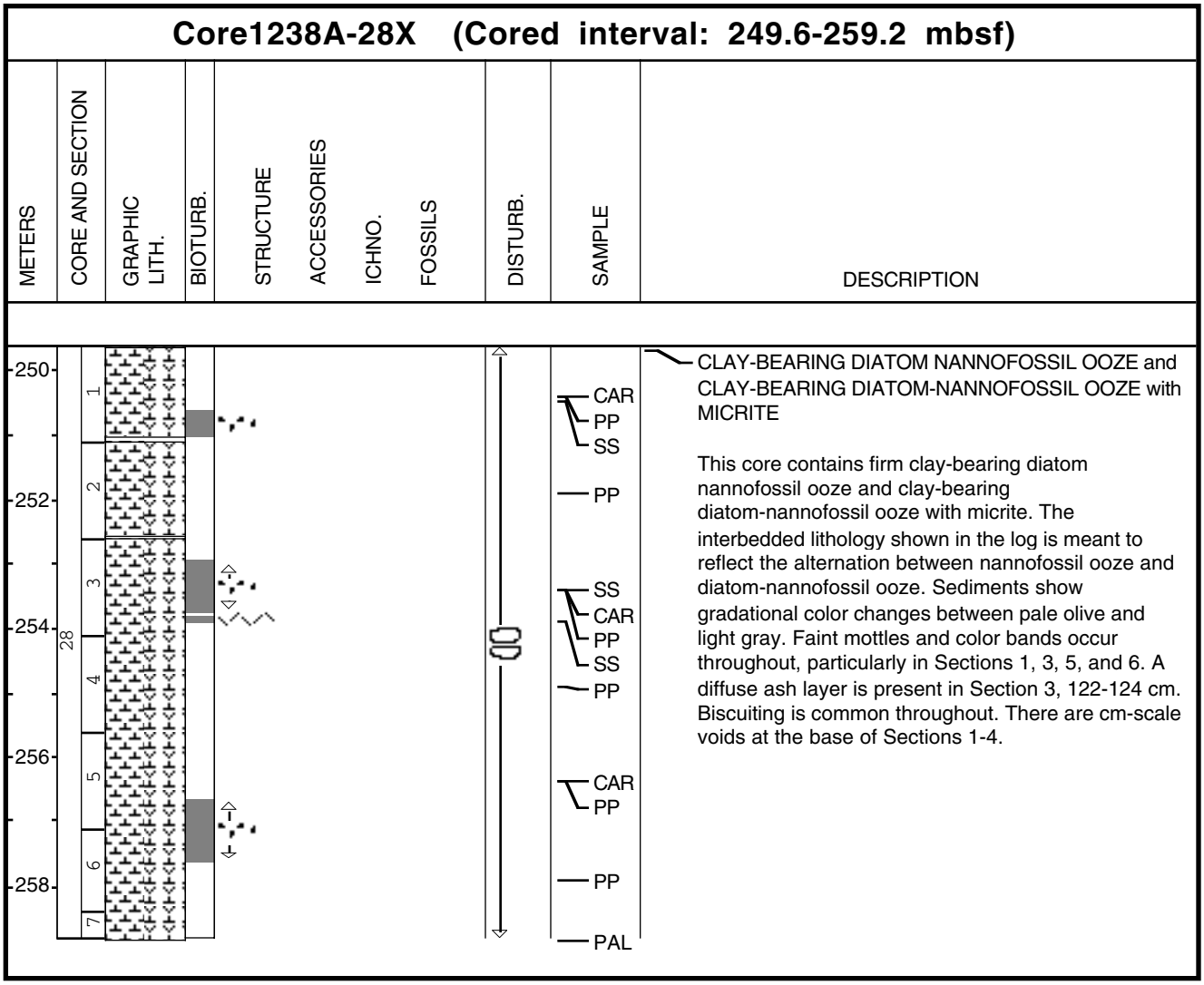
Core Photo


Core 1238A-26X (Cored interval: 230.3-240.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
232
234
236
238
240
26
1
2
3
4
5
6
7
8
PP
CAR
SS
PP
CAR
PP
IW
PP
CAR
PP
SS
PP
PAL
CLAY DIATOM-BEARING NANNOFOSSIL OOZE and CLAY-BEARING NANNOFOSSIL DIATOM OOZE with MICRITE
This core contains clay diatom-bearing nannofossil ooze and clay-bearing nannofossil diatom ooze with micrite. The interbedded lithology is used to graphically display nearly equal and slightly variable abundances of diatoms and nannofossils downcore. Sediment color varies between light gray, pale olive, and pale yellow. Slight mottling occurs throughout, though less common in pale olive intervals. Biscuiting occurs in all sections, but is more intense in the upper part of the core.

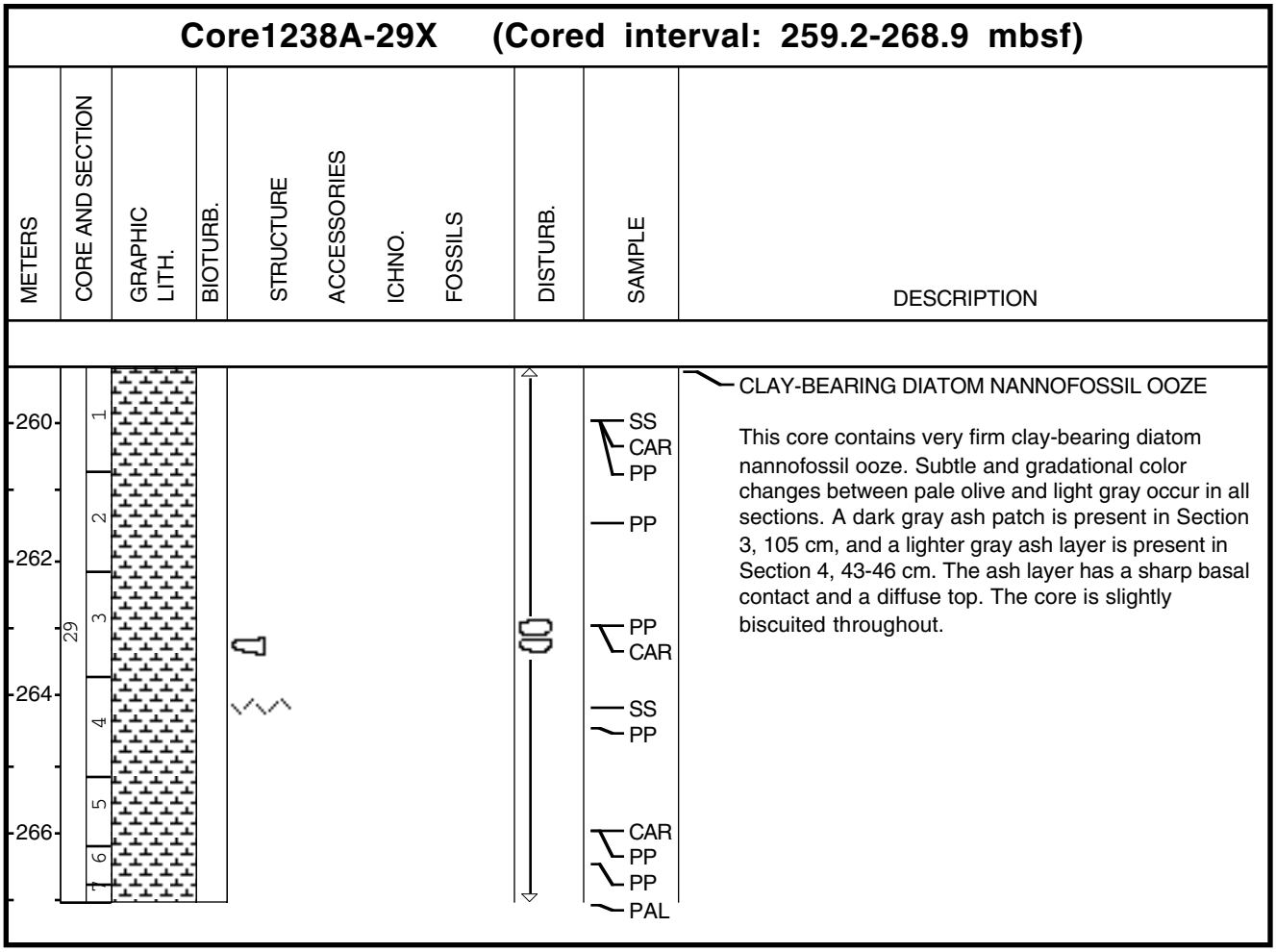
Core Photo


Core1238A-27X (Cored interval: 240.0-249.6 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
242
244
246
248
27
1
2
3
4
5
6
7
SS
CAR
PP
PP
SS
SS
CAR
PP
PP
PP
CAR
PP
PAL
DIATOM NANNOFOSSIL OOZE and CLAY-BEARING DIATOM NANNOFOSSIL OOZE
This core contains homogeneous diatom nannofossil ooze and clay-bearing diatom nannofossil ooze. Sediment color changes gradationally between light gray and light olive gray. Slight color mottling occurs throughout. Diffuse medium gray ash spots are present in Section 3, 45-80 cm. Drilling biscuits occur throughout.

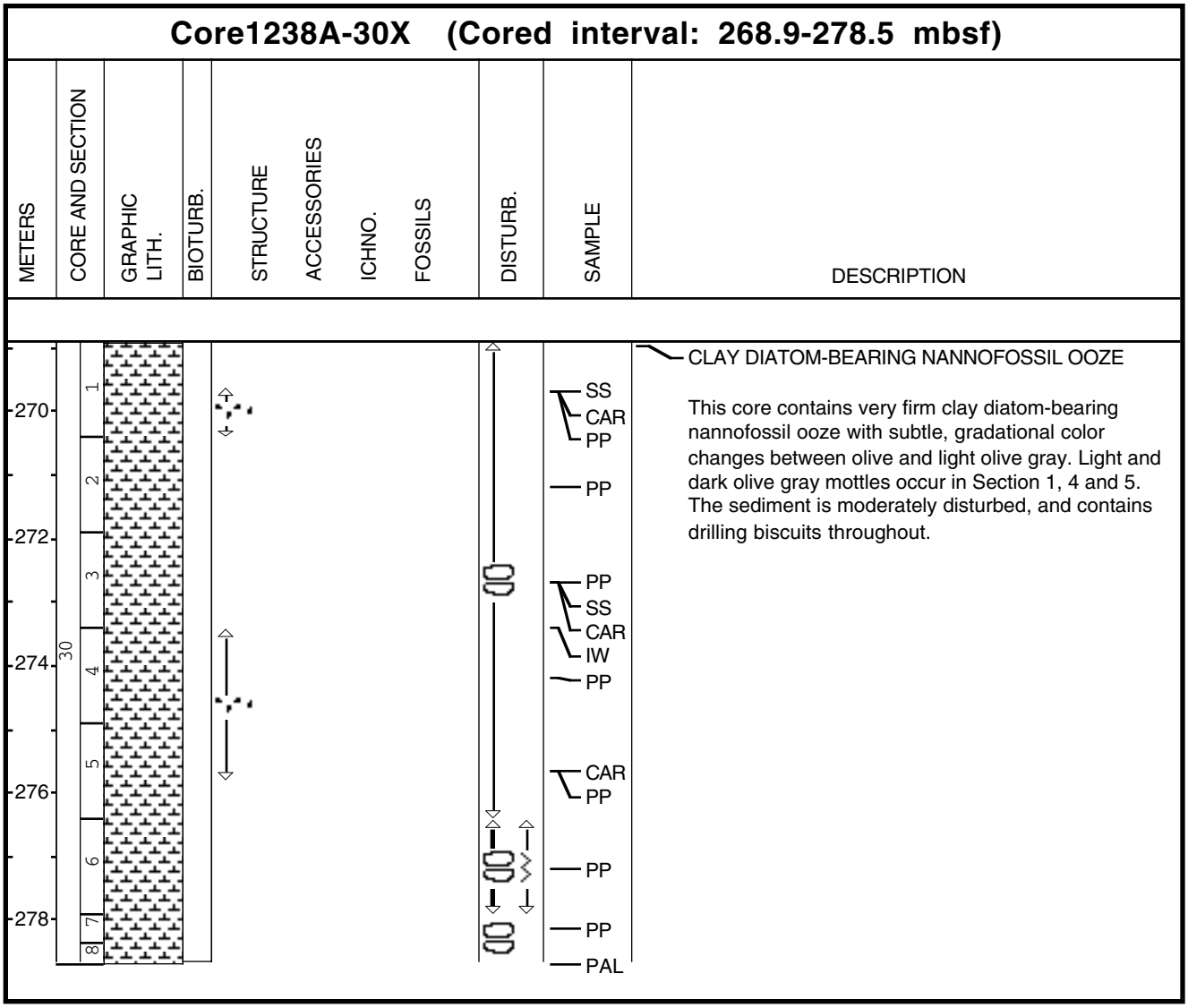
Core Photo


Core1238A-28X (Cored interval: 249.6-259.2 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
250
252
254
256
258
28
1
2
3
4
5
6
7
CAR
PP
SS
PP
SS
CAR
PP
SS
PP
CAR
PP
PP
PAL
CLAY-BEARING DIATOM NANNOFOSSIL OOZE and CLAY-BEARING DIATOM-NANNOFOSSIL OOZE with MICRITE
This core contains firm clay-bearing diatom nannofossil ooze and clay-bearing diatom-nannofossil ooze with micrite. The interbedded lithology shown in the log is meant to reflect the alternation between nannofossil ooze and diatom-nannofossil ooze. Sediments show gradational color changes between pale olive and light gray. Faint mottles and color bands occur throughout, particularly in Sections 1, 3, 5, and 6. A diffuse ash layer is present in Section 3, 122-124 cm. Biscuiting is common throughout. There are cm-scale voids at the base of Sections 1-4.

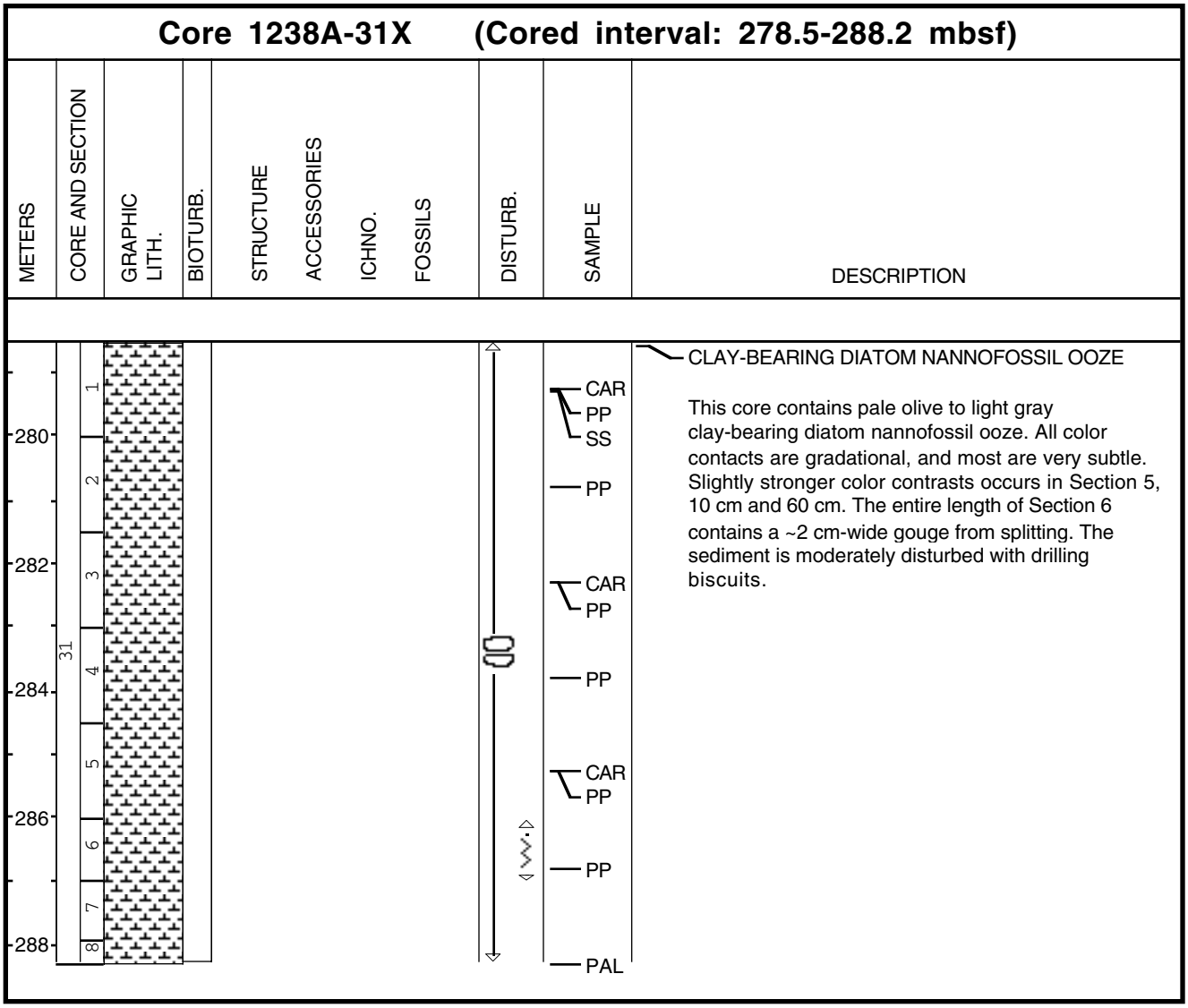
Core Photo


Core1238A-29X (Cored interval: 259.2-268.9 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
260
262
264
266
29
1
2
3
4
5
6
7
SS
CAR
PP
PP
PP
CAR
SS
PP
CAR
PP
PP
PAL
CLAY-BEARING DIATOM NANNOFOSSIL OOZE
This core contains very firm clay-bearing diatom nannofossil ooze. Subtle and gradational color changes between pale olive and light gray occur in all sections. A dark gray ash patch is present in Section 3, 105 cm, and a lighter gray ash layer is present in Section 4, 43-46 cm. The ash layer has a sharp basal contact and a diffuse top. The core is slightly biscuited throughout.

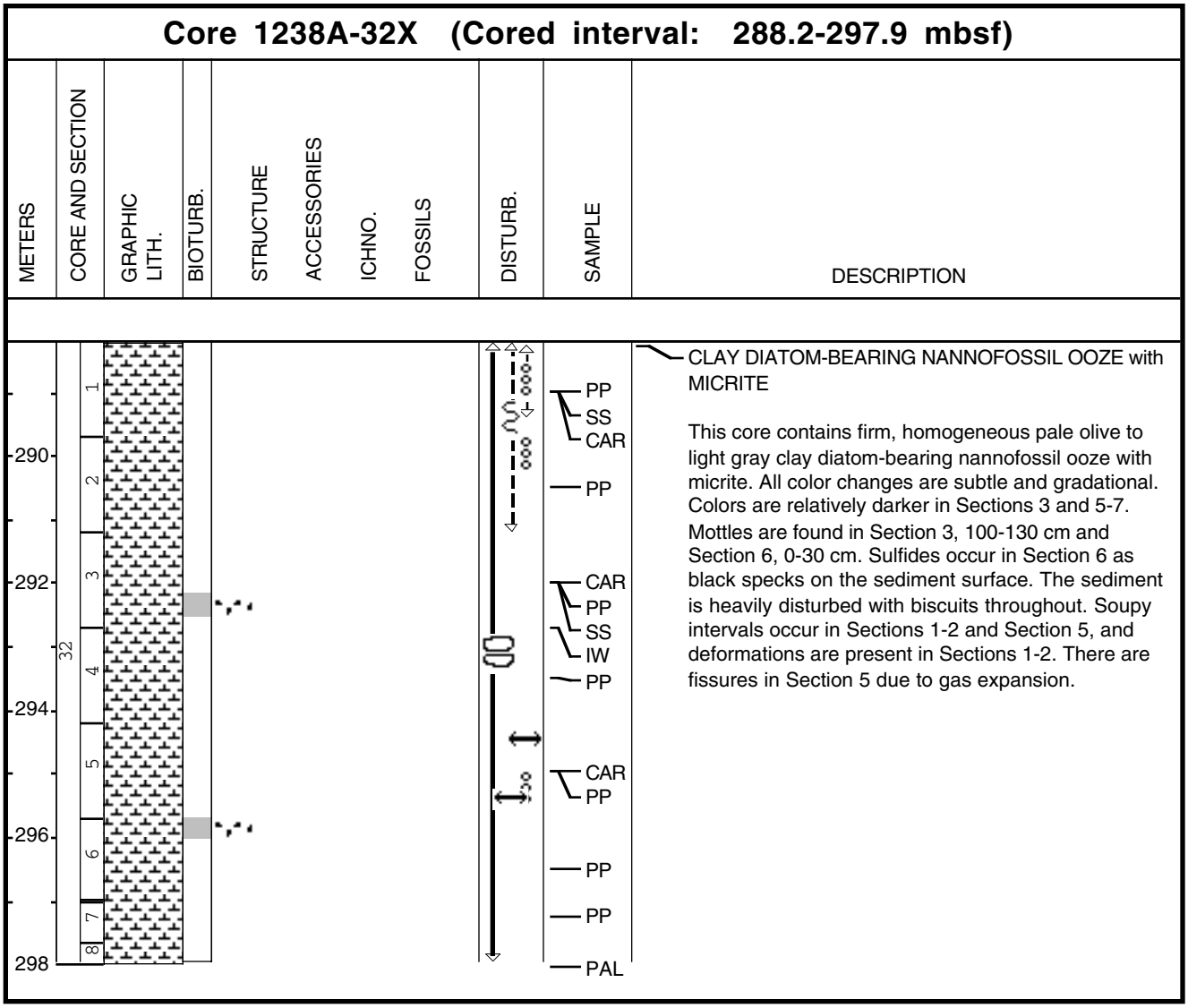
Core Photo


Core1238A-30X (Cored interval: 268.9-278.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
270
272
274
276
278
30
1
2
3
4
5
6
7
8
SS
CAR
PP
PP
PP
SS
CAR
IW
PP
CAR
PP
PP
PP
PAL
CLAY DIATOM-BEARING NANNOFOSSIL OOZE
This core contains very firm clay diatom-bearing nannofossil ooze with subtle, gradational color changes between olive and light olive gray. Light and dark olive gray mottles occur in Section 1, 4 and 5. The sediment is moderately disturbed, and contains drilling biscuits throughout.

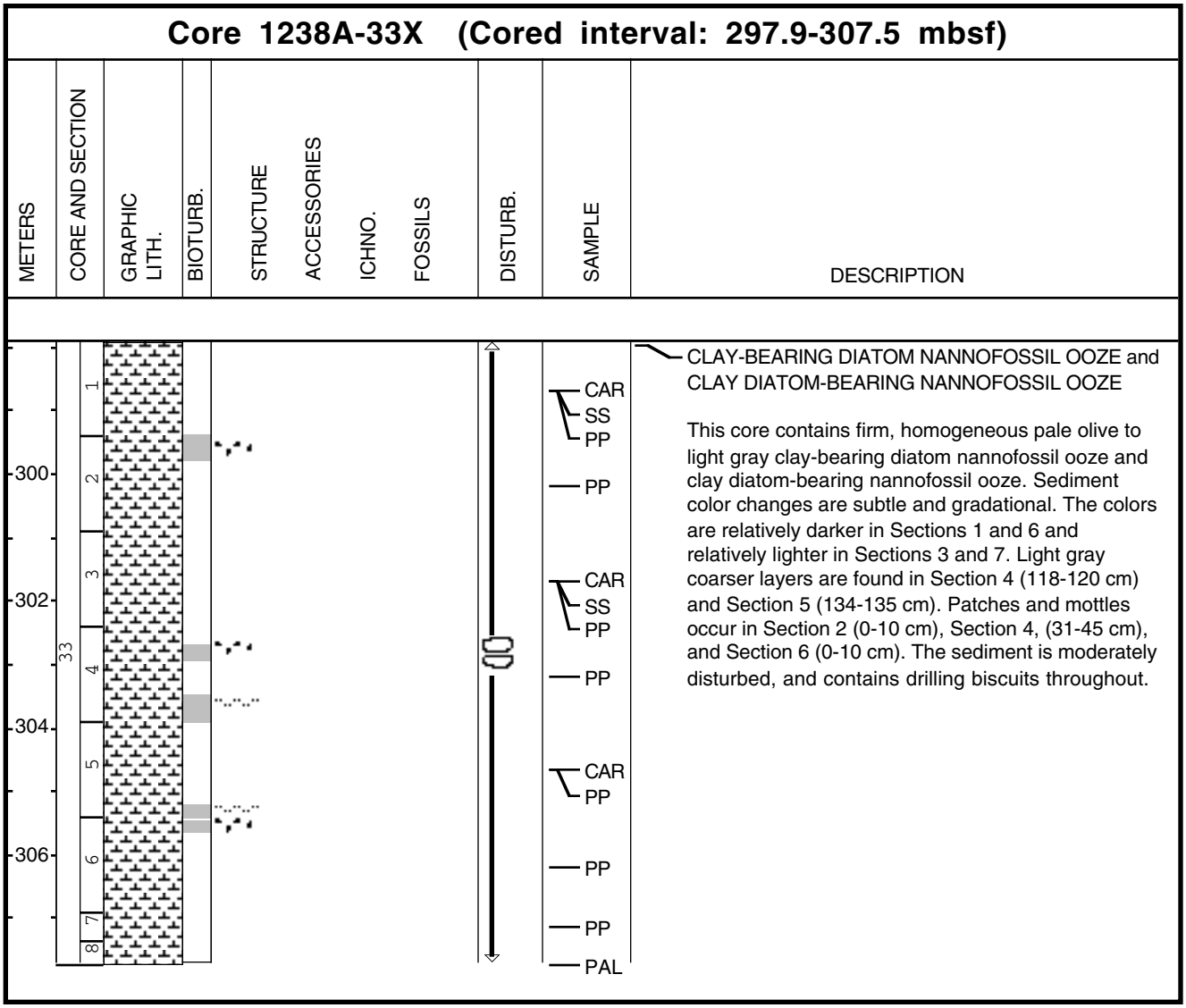
Core Photo


Core 1238A-31X (Cored interval: 278.5-288.2 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
280
282
284
286
288
31
1
2
3
4
5
6
7
8
CAR
PP
SS
PP
CAR
PP
PP
CAR
PP
PP
PAL
CLAY-BEARING DIATOM NANNOFOSSIL OOZE
This core contains pale olive to light gray clay-bearing diatom nannofossil ooze. All color contacts are gradational, and most are very subtle. Slightly stronger color contrasts occurs in Section 5, 10 cm and 60 cm. The entire length of Section 6 contains a ~2 cm-wide gouge from splitting. The sediment is moderately disturbed with drilling biscuits.

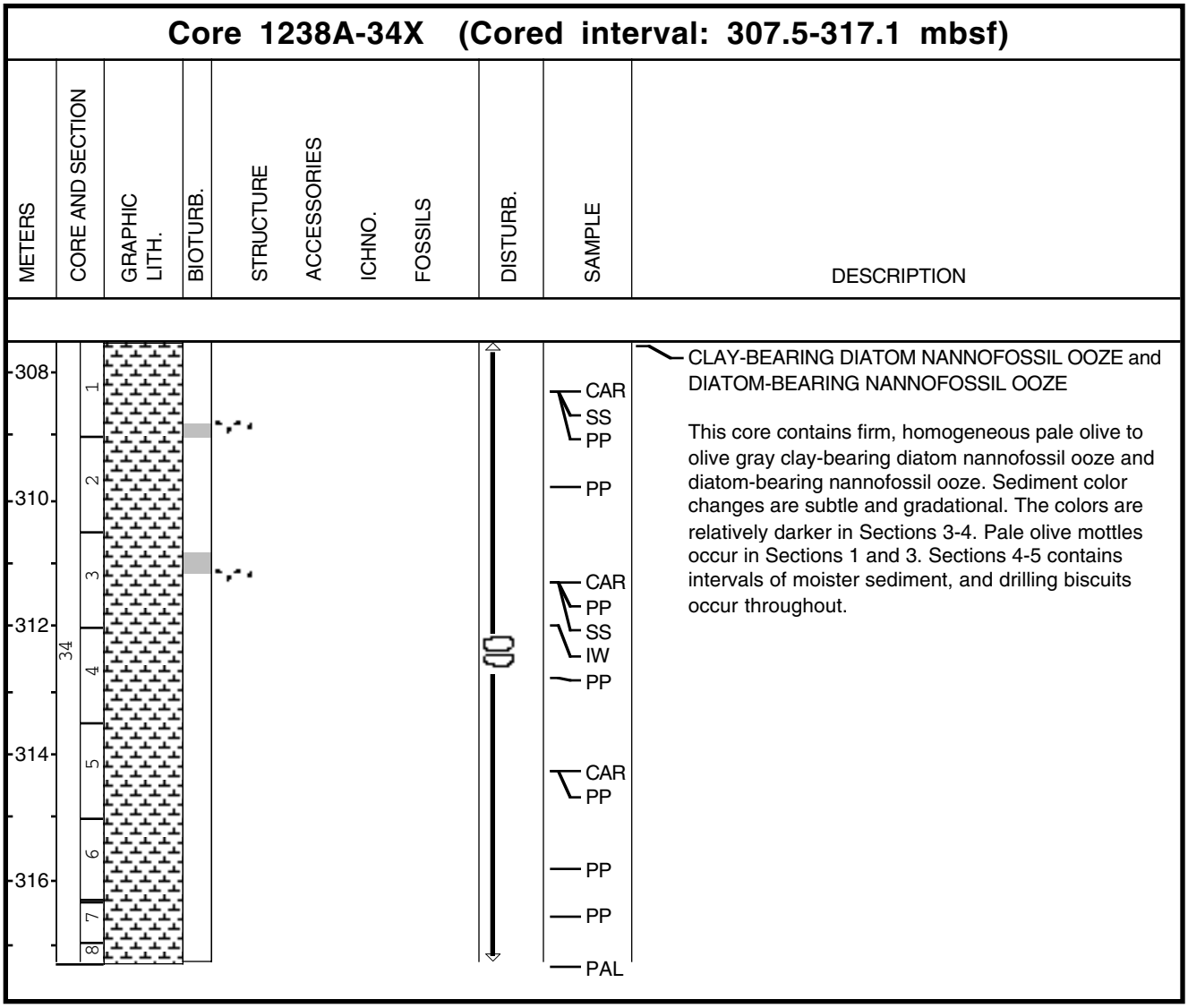
Core Photo


Core 1238A-32X (Cored interval: 288.2-297.9 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
290
292
294
296
298
32
1
2
3
4
5
6
7
8
PP
SS
CAR
PP
CAR
PP
SS
IW
PP
CAR
PP
PP
PP
PAL
CLAY DIATOM-BEARING NANNOFOSSIL OOZE with MICRITE
This core contains firm, homogeneous pale olive to light gray clay diatom-bearing nannofossil ooze with micrite. All color changes are subtle and gradational. Colors are relatively darker in Sections 3 and 5-7. Mottles are found in Section 3, 100-130 cm and Section 6, 0-30 cm. Sulfides occur in Section 6 as black specks on the sediment surface. The sediment is heavily disturbed with biscuits throughout. Soupy intervals occur in Sections 1-2 and Section 5, and deformations are present in Sections 1-2. There are fissures in Section 5 due to gas expansion.

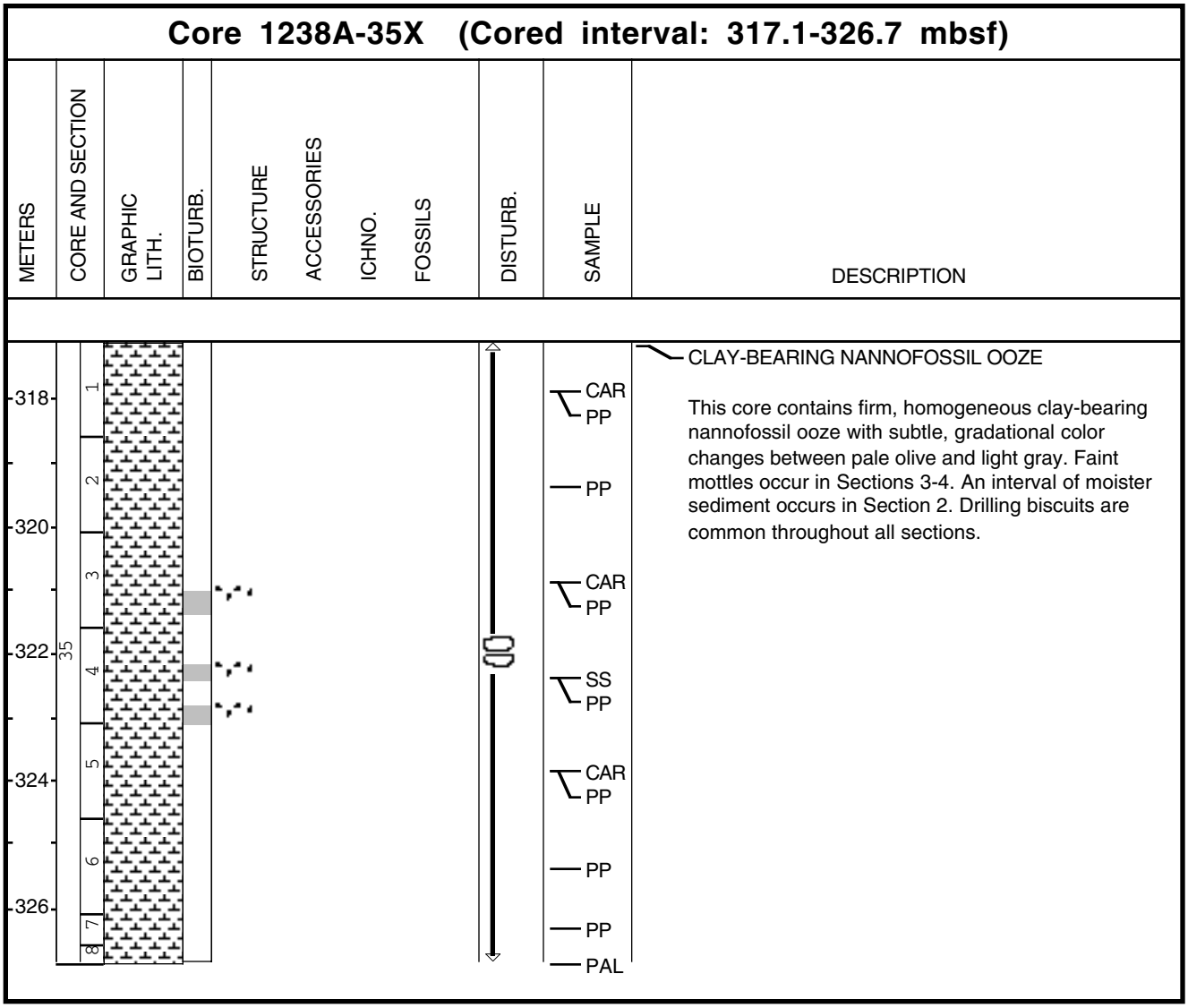
Core Photo


Core 1238A-33X (Cored interval: 297.9-307.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
300
302
304
306
33
1
2
3
4
5
6
7
8
CAR
SS
PP
PP
CAR
SS
PP
PP
CAR
PP
PP
PP
PAL
CLAY-BEARING DIATOM NANNOFOSSIL OOZE and CLAY DIATOM-BEARING NANNOFOSSIL OOZE
This core contains firm, homogeneous pale olive to light gray clay-bearing diatom nannofossil ooze and clay diatom-bearing nannofossil ooze. Sediment color changes are subtle and gradational. The colors are relatively darker in Sections 1 and 6 and relatively lighter in Sections 3 and 7. Light gray coarser layers are found in Section 4 (118-120 cm) and Section 5 (134-135 cm). Patches and mottles occur in Section 2 (0-10 cm), Section 4, (31-45 cm), and Section 6 (0-10 cm). The sediment is moderately disturbed, and contains drilling biscuits throughout.

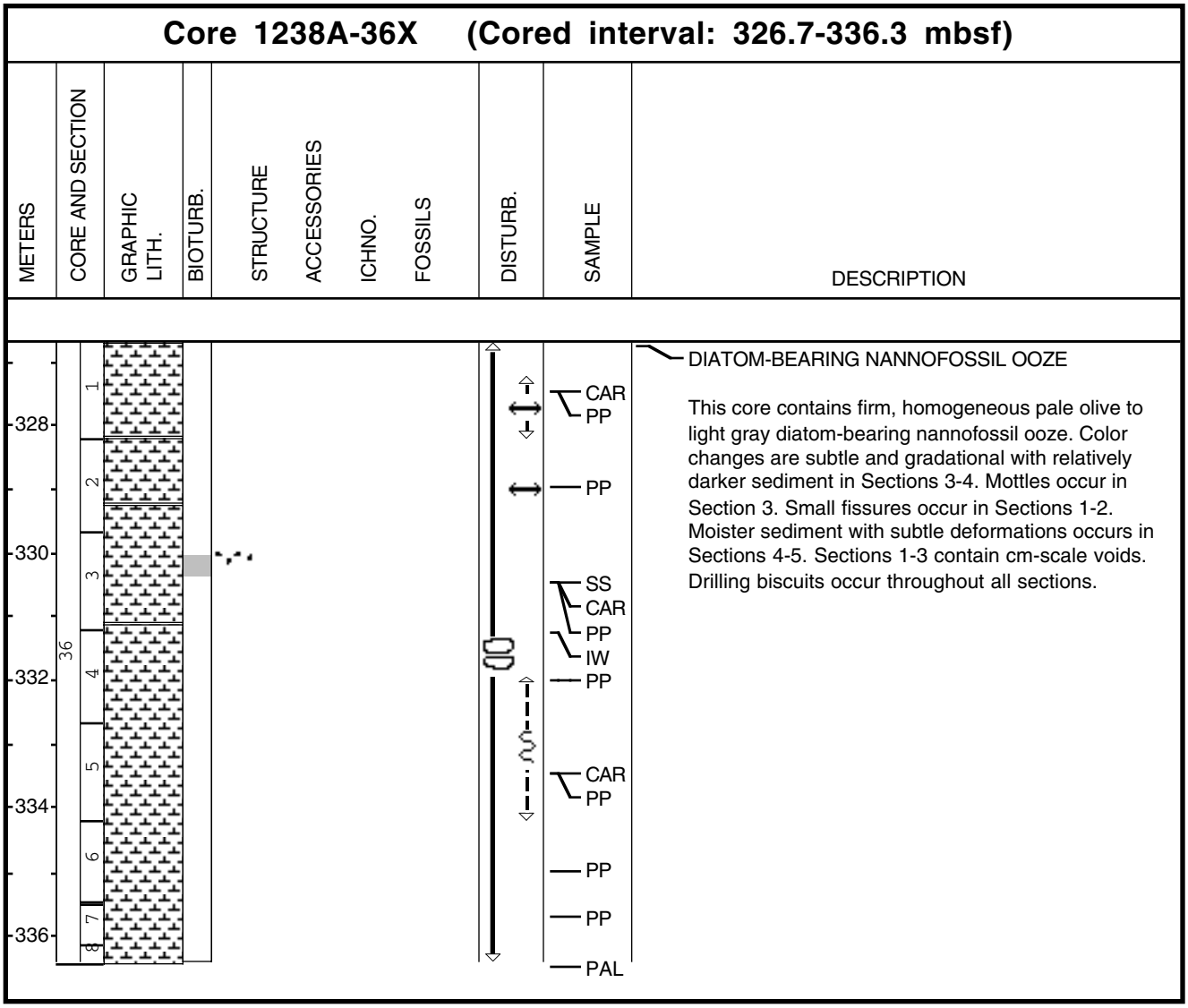
Core Photo


Core 1238A-34X (Cored interval: 307.5-317.1 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
308
310
312
314
316
34
1
2
3
4
5
6
7
8
CAR
SS
PP
PP
CAR
PP
SS
IW
PP
CAR
PP
PP
PP
PAL
CLAY-BEARING DIATOM NANNOFOSSIL OOZE and DIATOM-BEARING NANNOFOSSIL OOZE
This core contains firm, homogeneous pale olive to olive gray clay-bearing diatom nannofossil ooze and diatom-bearing nannofossil ooze. Sediment color changes are subtle and gradational. The colors are relatively darker in Sections 3-4. Pale olive mottles occur in Sections 1 and 3. Sections 4-5 contains intervals of moister sediment, and drilling biscuits occur throughout.

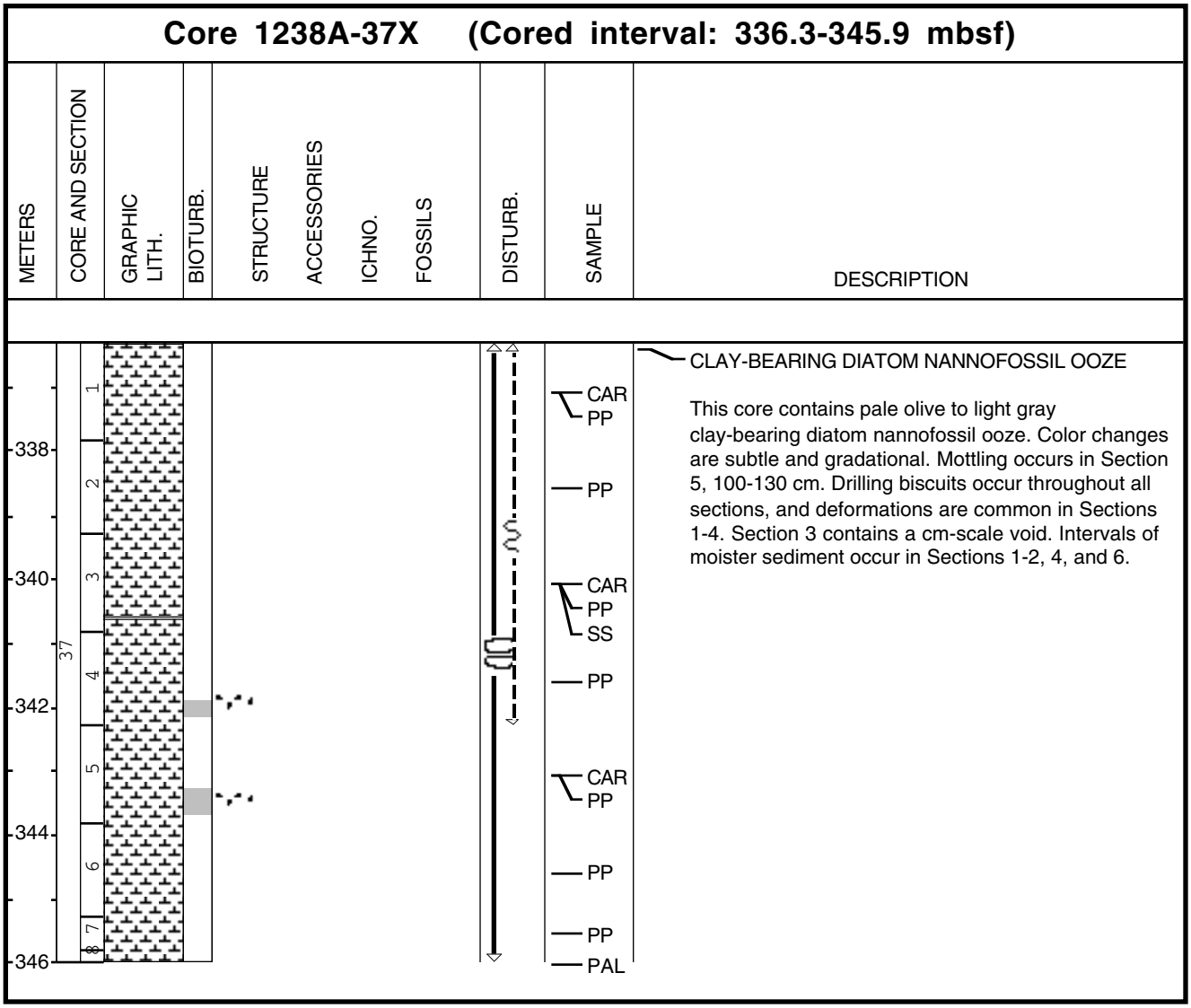
Core Photo


Core 1238A-35X (Cored interval: 317.1-326.7 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
318
320
322
324
326
35
1
2
3
4
5
6
7
8
CAR
PP
PP
CAR
PP
SS
PP
CAR
PP
PP
PP
PAL
CLAY-BEARING NANNOFOSSIL OOZE
This core contains firm, homogeneous clay-bearing nannofossil ooze with subtle, gradational color changes between pale olive and light gray. Faint mottles occur in Sections 3-4. An interval of moister sediment occurs in Section 2. Drilling biscuits are common throughout all sections.

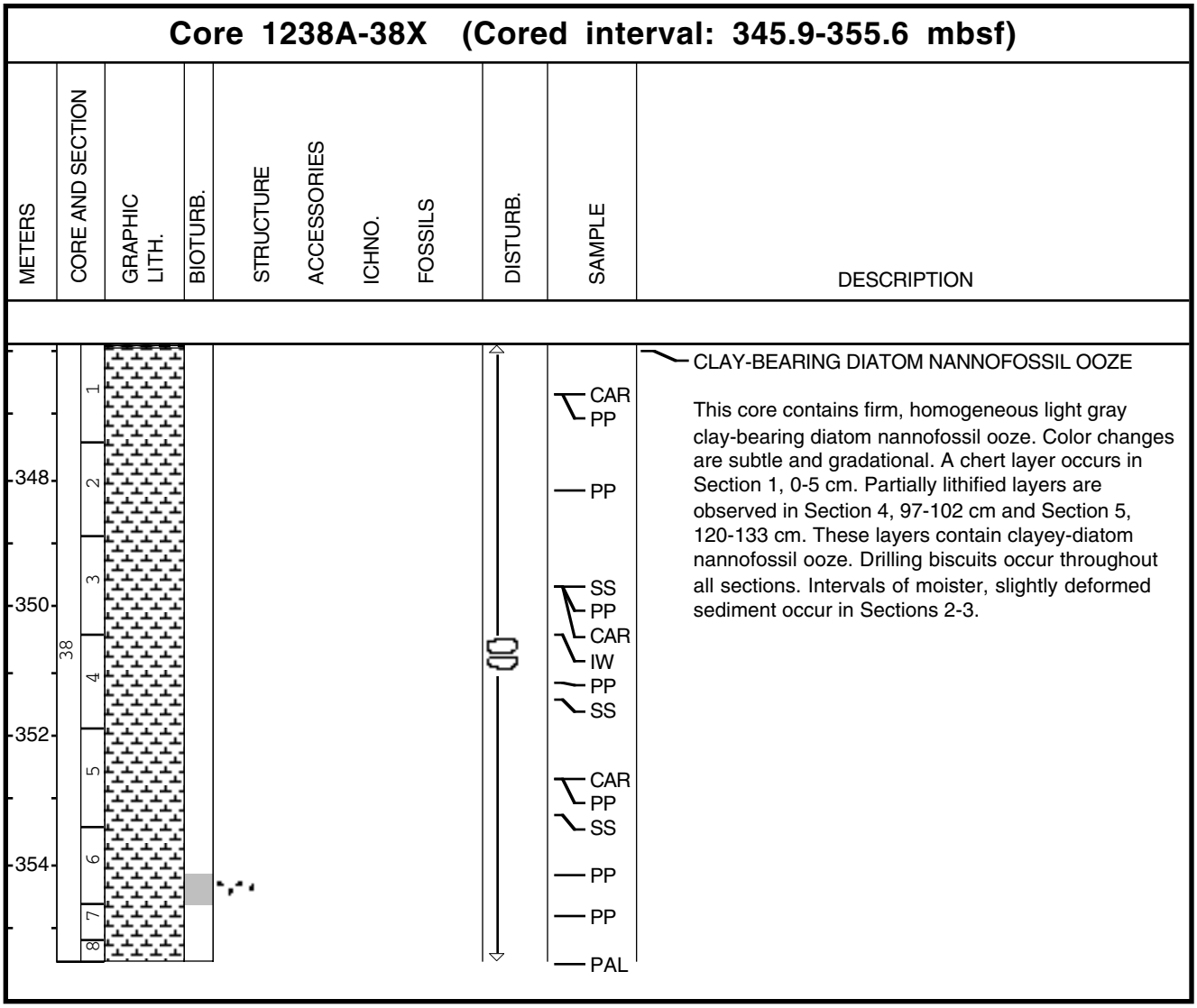
Core Photo


Core 1238A-36X (Cored interval: 326.7-336.3 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
328
330
332
334
336
36
1
2
3
4
5
6
7
CAR
PP
PP
SS
CAR
PP
IW
PP
CAR
PP
PP
PP
PAL
DIATOM-BEARING NANNOFOSSIL OOZE
This core contains firm, homogeneous pale olive to light gray diatom-bearing nannofossil ooze. Color changes are subtle and gradational with relatively darker sediment in Sections 3-4. Mottles occur in Section 3. Small fissures occur in Sections 1-2. Moister sediment with subtle deformations occurs in Sections 4-5. Sections 1-3 contain cm-scale voids. Drilling biscuits occur throughout all sections.

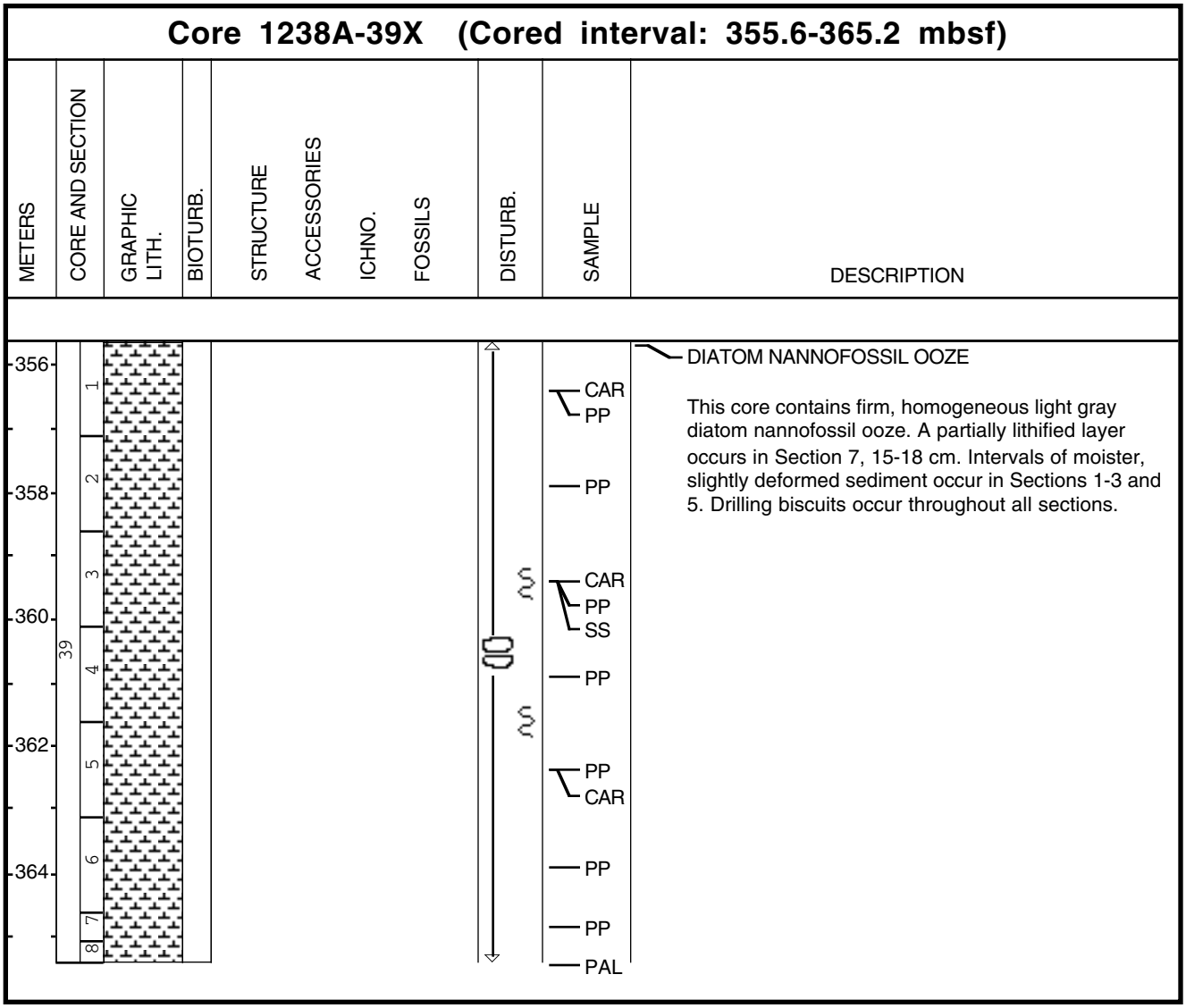
Core Photo


Core 1238A-37X (Cored interval: 336.3-345.9 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
338
340
342
344
346
37
1
2
3
4
5
6
7
8
CAR
PP
PP
CAR
PP
SS
PP
CAR
PP
PP
PP
PAL
CLAY-BEARING DIATOM NANNOFOSSIL OOZE
This core contains pale olive to light gray clay-bearing diatom nannofossil ooze. Color changes are subtle and gradational. Mottling occurs in Section 5, 100-130 cm. Drilling biscuits occur throughout all sections, and deformations are common in Sections 1-4. Section 3 contains a cm-scale void. Intervals of moister sediment occur in Sections 1-2, 4, and 6.

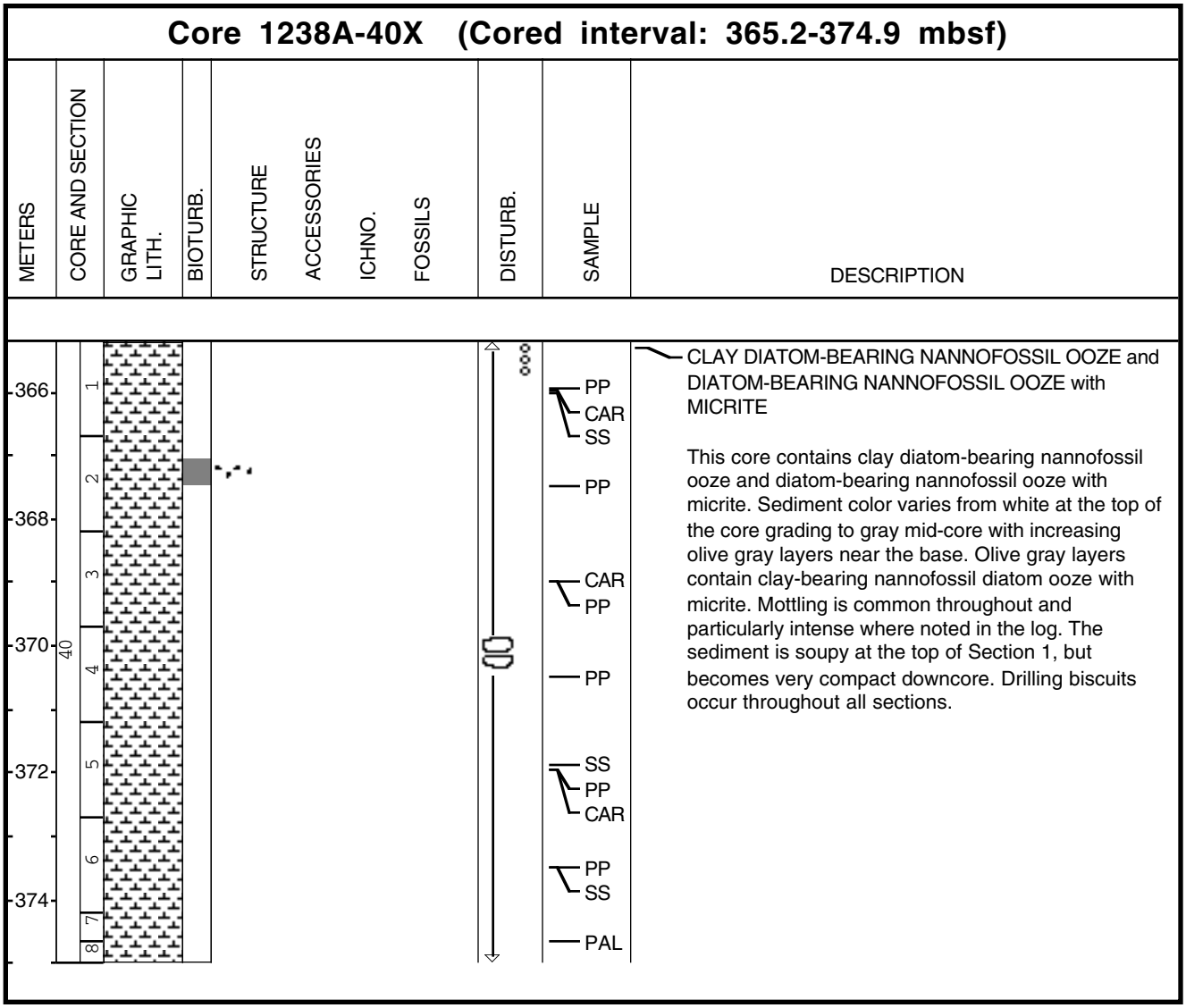
Core Photo


Core 1238A-38X (Cored interval: 345.9-355.6 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
348
350
352
354
38
1
2
3
4
5
6
7
8
CAR
PP
PP
SS
PP
CAR
IW
PP
SS
CAR
PP
SS
PP
PP
PAL
CLAY-BEARING DIATOM NANNOFOSSIL OOZE
This core contains firm, homogeneous light gray clay-bearing diatom nannofossil ooze. Color changes are subtle and gradational. A chert layer occurs in Section 1, 0-5 cm. Partially lithified layers are observed in Section 4, 97-102 cm and Section 5, 120-133 cm. These layers contain clayey-diatom nannofossil ooze. Drilling biscuits occur throughout all sections. Intervals of moister, slightly deformed sediment occur in Sections 2-3.

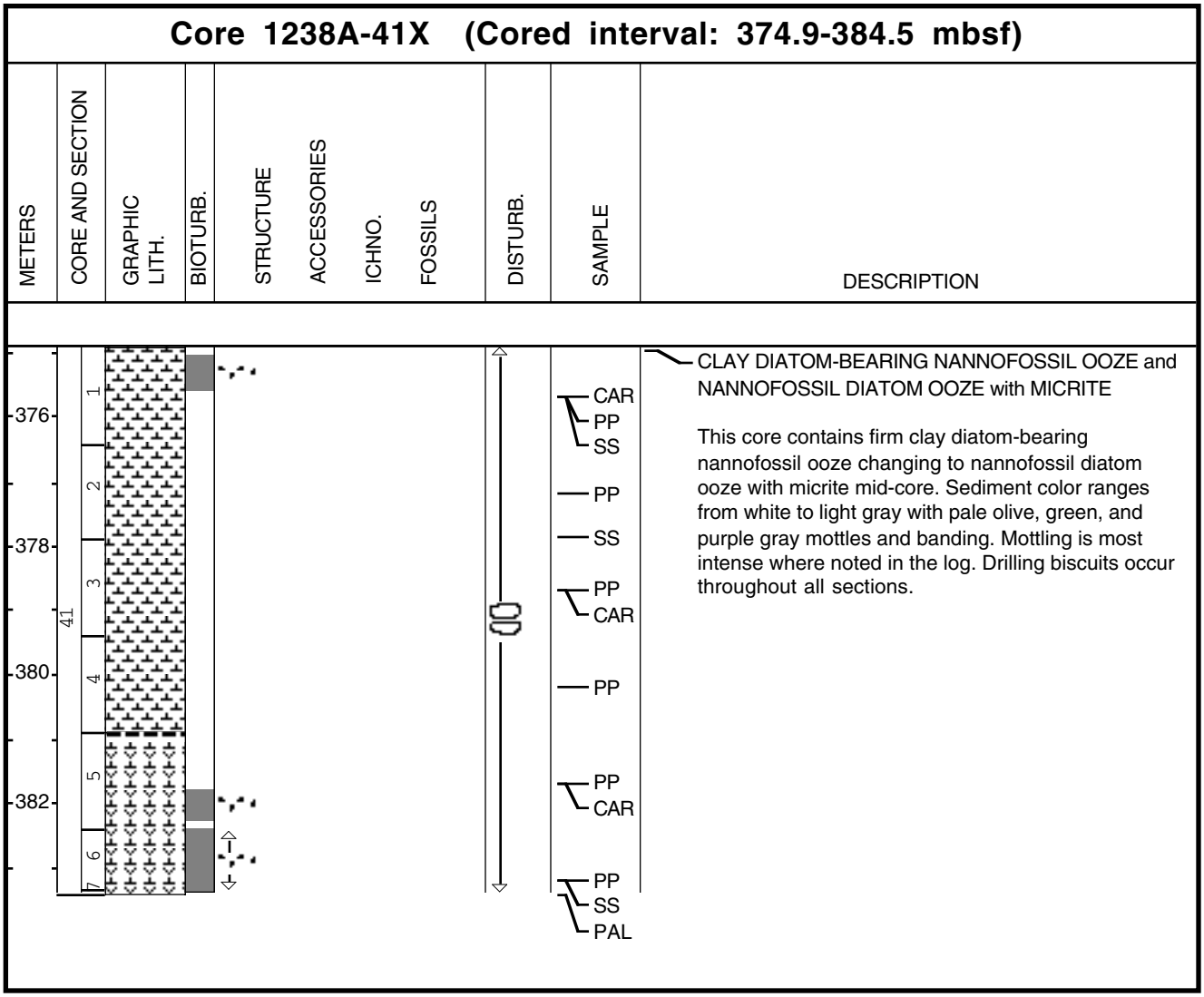
Core Photo


Core 1238A-39X (Cored interval: 355.6-365.2 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
356
358
360
362
364
39
1
2
3
4
5
6
7
8
CAR
PP
PP
CAR
PP
SS
PP
PP
CAR
PP
PP
PAL
DIATOM NANNOFOSSIL OOZE
This core contains firm, homogeneous light gray diatom nannofossil ooze. A partially lithified layer occurs in Section 7, 15-18 cm. Intervals of moister, slightly deformed sediment occur in Sections 1-3 and 5. Drilling biscuits occur throughout all sections.

Core Photo


Core 1238A-40X (Cored interval: 365.2-374.9 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
366
368
370
372
374
40
1
2
3
4
5
6
7
8
PP
CAR
SS
PP
CAR
PP
PP
SS
PP
CAR
PP
SS
PAL
CLAY DIATOM-BEARING NANNOFOSSIL OOZE and DIATOM-BEARING NANNOFOSSIL OOZE with MICRITE
This core contains clay diatom-bearing nannofossil ooze and diatom-bearing nannofossil ooze with micrite. Sediment color varies from white at the top of the core grading to gray mid-core with increasing olive gray layers near the base. Olive gray layers contain clay-bearing nannofossil diatom ooze with micrite. Mottling is common throughout and particularly intense where noted in the log. The sediment is soupy at the top of Section 1, but becomes very compact downcore. Drilling biscuits occur throughout all sections.

Core Photo


Core 1238A-41X (Cored interval: 374.9-384.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
376
378
380
382
41
1
2
3
4
5
6
7
CAR
PP
SS
PP
SS
PP
CAR
PP
PP
CAR
PP
SS
PAL
CLAY DIATOM-BEARING NANNOFOSSIL OOZE and NANNOFOSSIL DIATOM OOZE with MICRITE
This core contains firm clay diatom-bearing nannofossil ooze changing to nannofossil diatom ooze with micrite mid-core. Sediment color ranges from white to light gray with pale olive, green, and purple gray mottles and banding. Mottling is most intense where noted in the log. Drilling biscuits occur throughout all sections.

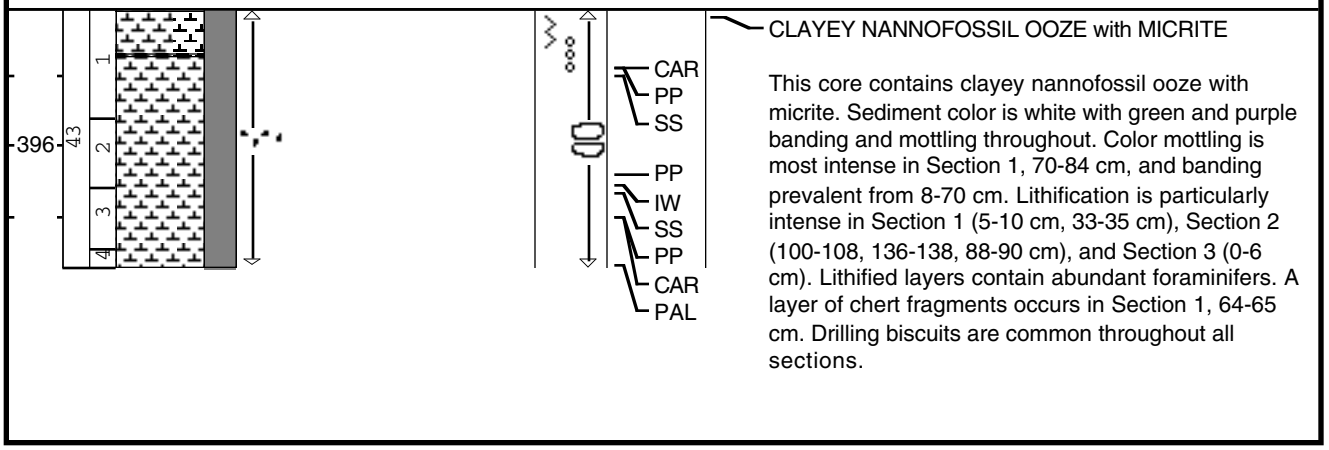
Core Photo

Core 1238A-42X (Cored interval: 384.5-394.1 mbsf)

METERS	CORE AND SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
	1								XRD THS THS XRD	FORAMINIFER CHALK and CHERT This core contains foraminifer chalk and chert. The upper 14 cm contains brownish chert fragments with concoidal fractures. The foraminifer chalk sits below the upper chert layer. Four larger chunks of foraminifer chalk occur from 14-23 cm. These pieces are lighter brown with mm-scale laminae. Below are two >3-4-cm pieces of foraminifer chalk. The upper chalk is lighter gray and brown with discontinuous layers while the lower is green-gray and gray layered material.

Core Photo

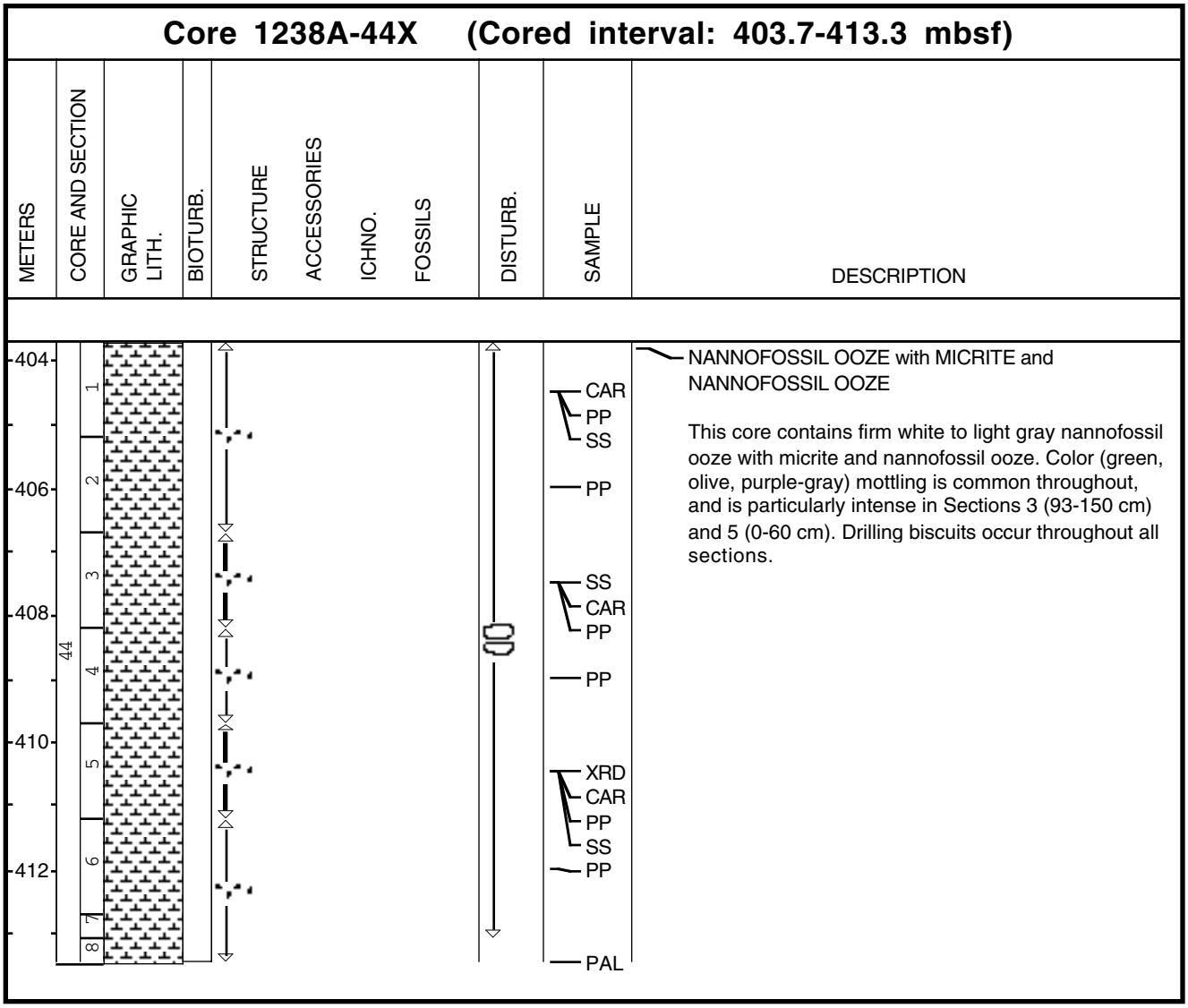
Core 1238A-43X (Cored interval: 394.1-403.7 mbsf)



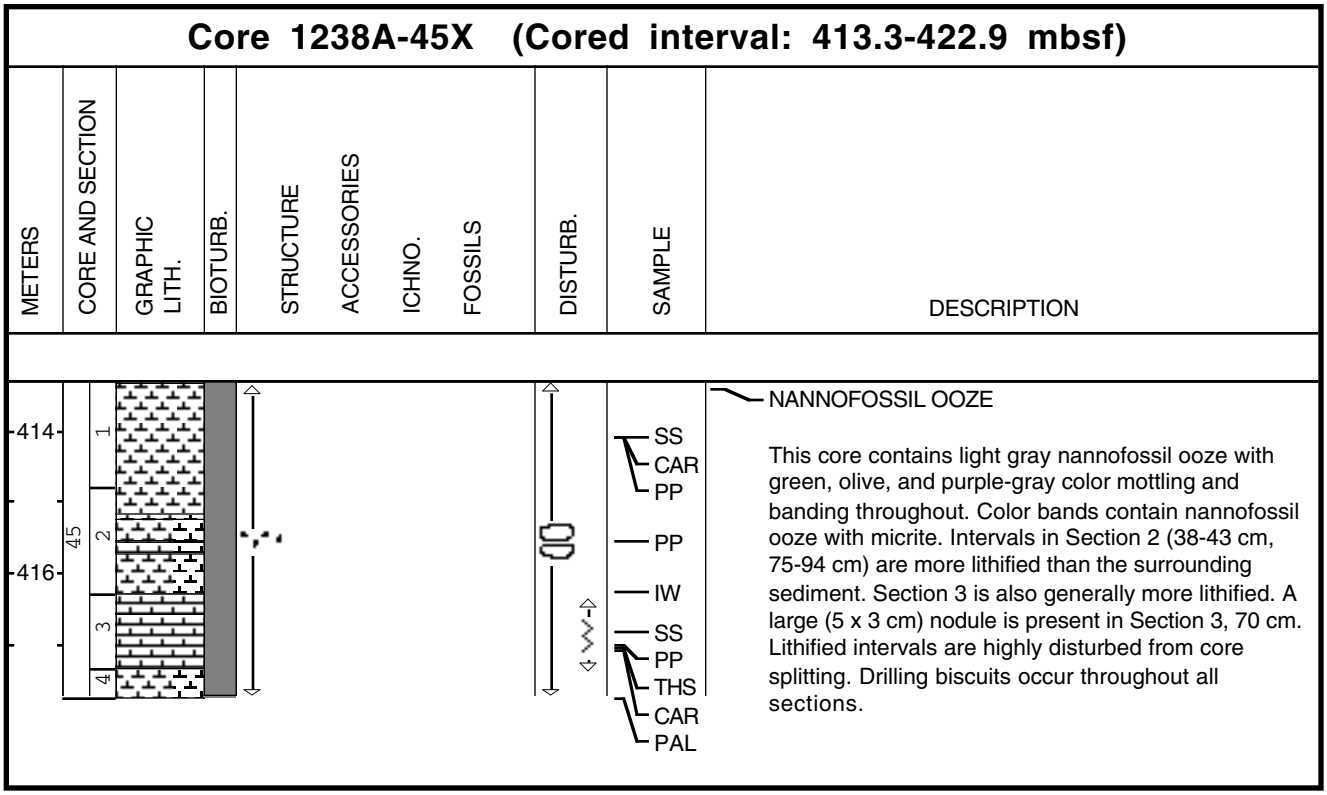
CLAYEY NANNOFOSSIL OOZE with MICRITE

This core contains clayey nannofossil ooze with micrite. Sediment color is white with green and purple banding and mottling throughout. Color mottling is most intense in Section 1, 70-84 cm, and banding prevalent from 8-70 cm. Lithification is particularly intense in Section 1 (5-10 cm, 33-35 cm), Section 2 (100-108, 136-138, 88-90 cm), and Section 3 (0-6 cm). Lithified layers contain abundant foraminifers. A layer of chert fragments occurs in Section 1, 64-65 cm. Drilling biscuits are common throughout all sections.

Core Photo


Core 1238A-44X (Cored interval: 403.7-413.3 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
404
406
408
410
412
44
1
2
3
4
5
6
7
8
CAR
PP
SS
PP
SS
CAR
PP
PP
XRD
CAR
PP
SS
PP
PAL
NANNOFOSSIL OOZE with MICRITE and NANNOFOSSIL OOZE
This core contains firm white to light gray nannofossil ooze with micrite and nannofossil ooze. Color (green, olive, purple-gray) mottling is common throughout, and is particularly intense in Sections 3 (93-150 cm) and 5 (0-60 cm). Drilling biscuits occur throughout all sections.

Core Photo

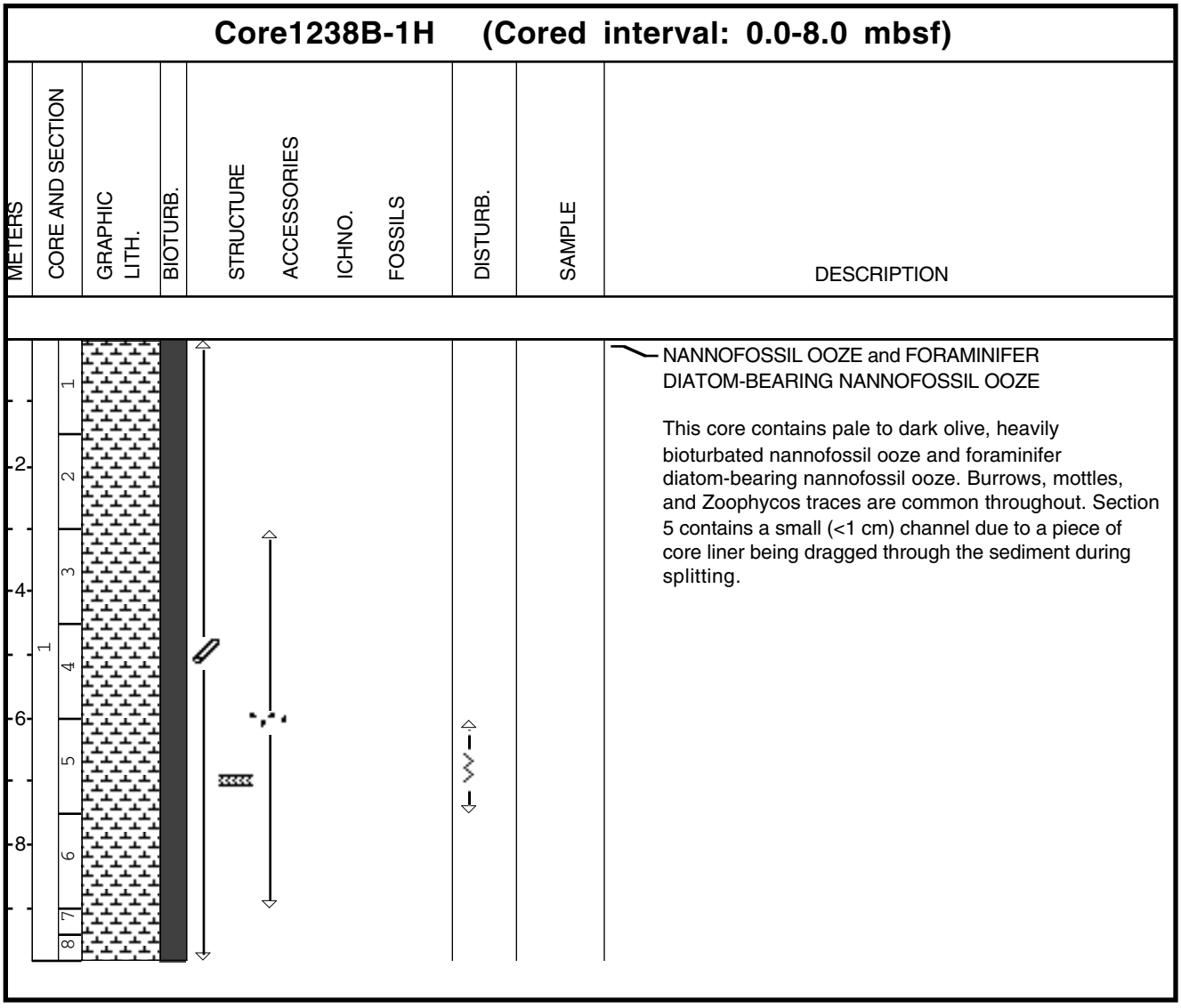

Core 1238A-45X (Cored interval: 413.3-422.9 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
414
416
45
1
2
3
4
SS
CAR
PP
PP
IW
SS
PP
THS
CAR
PAL
NANNOFOSSIL OOZE
This core contains light gray nannofossil ooze with green, olive, and purple-gray color mottling and banding throughout. Color bands contain nannofossil ooze with micrite. Intervals in Section 2 (38-43 cm, 75-94 cm) are more lithified than the surrounding sediment. Section 3 is also generally more lithified. A large (5 x 3 cm) nodule is present in Section 3, 70 cm. Lithified intervals are highly disturbed from core splitting. Drilling biscuits occur throughout all sections.

Core Photo

Core 1238A-46X (Cored interval: 422.9-430.6 mbsf)

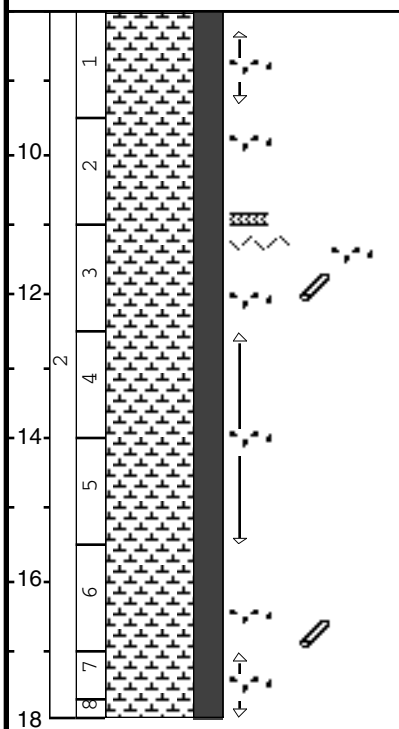
METERS	CORE AND SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
424	46 1 2								PP CAR	NANNOFOSSIL OOZE This core contains white, very compact nannofossil ooze with green and purple-gray mottles throughout. Three small thin chert horizons occur in Section 1 at 60 cm, 65-67 cm, and 91-95 cm. Drilling biscuits are common.

Core Photo


Core1238B-1H (Cored interval: 0.0-8.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
NANNOFOSSIL OOZE and FORAMINIFER DIATOM-BEARING NANNOFOSSIL OOZE
This core contains pale to dark olive, heavily bioturbated nannofossil ooze and foraminifer diatom-bearing nannofossil ooze. Burrows, mottles, and Zoophycos traces are common throughout. Section 5 contains a small (<1 cm) channel due to a piece of core liner being dragged through the sediment during splitting.

Core Photo

Core 1238B-2H (Cored interval: 8.0-17.5 mbsf)

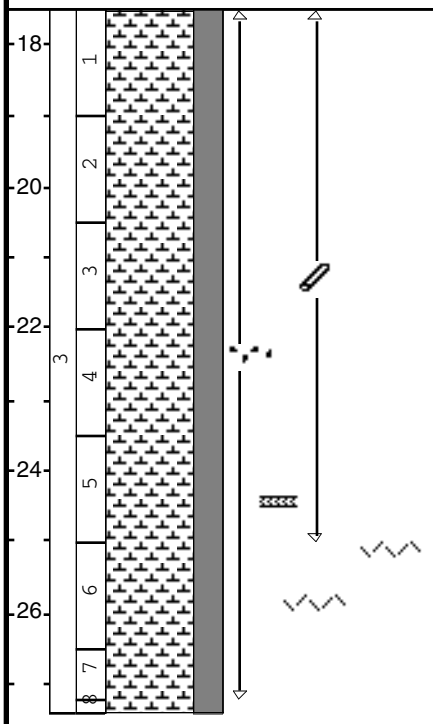


FORAMINIFER DIATOM-BEARING NANNOFOSSIL OOZE and CLAYEY NANNOFOSSIL OOZE

This core contains pale olive to olive foraminifer diatom-bearing nannofossil ooze and clayey nannofossil ooze with mottling, burrows, and Zoophycos throughout. An inclined burrow with mottling above and below occurs in Section 7, 38-46 cm. Sulfides occur as black spots on the sediment surface. Hydrogen sulfide gas was released during core splitting. The sediment is moist at the top of Section 1 but becomes firm and homogeneous thereafter. A light/medium gray ash layer with a scoured base and soupy top occurs in Section 3, 25-41 cm. Ash mottles occur below the ash layer.

Core Photo

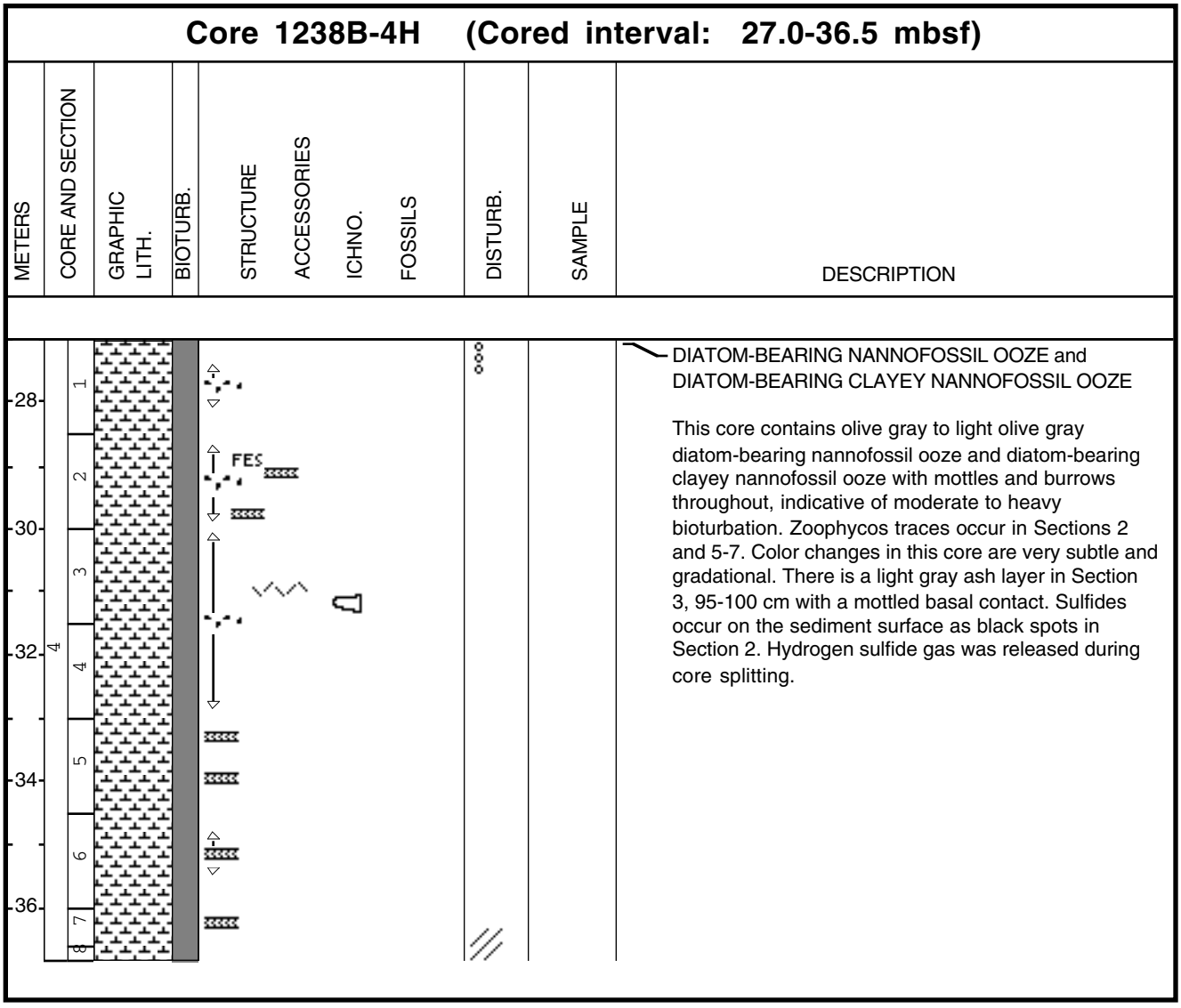
Core1238B-3H (Cored interval: 17.5-27.0 mbsf)



DIATOM CLAY-BEARING NANNOFOSSIL OOZE, DIATOM-BEARING NANNOFOSSIL OOZE and FORAMINIFER-BEARING NANNOFOSSIL OOZE

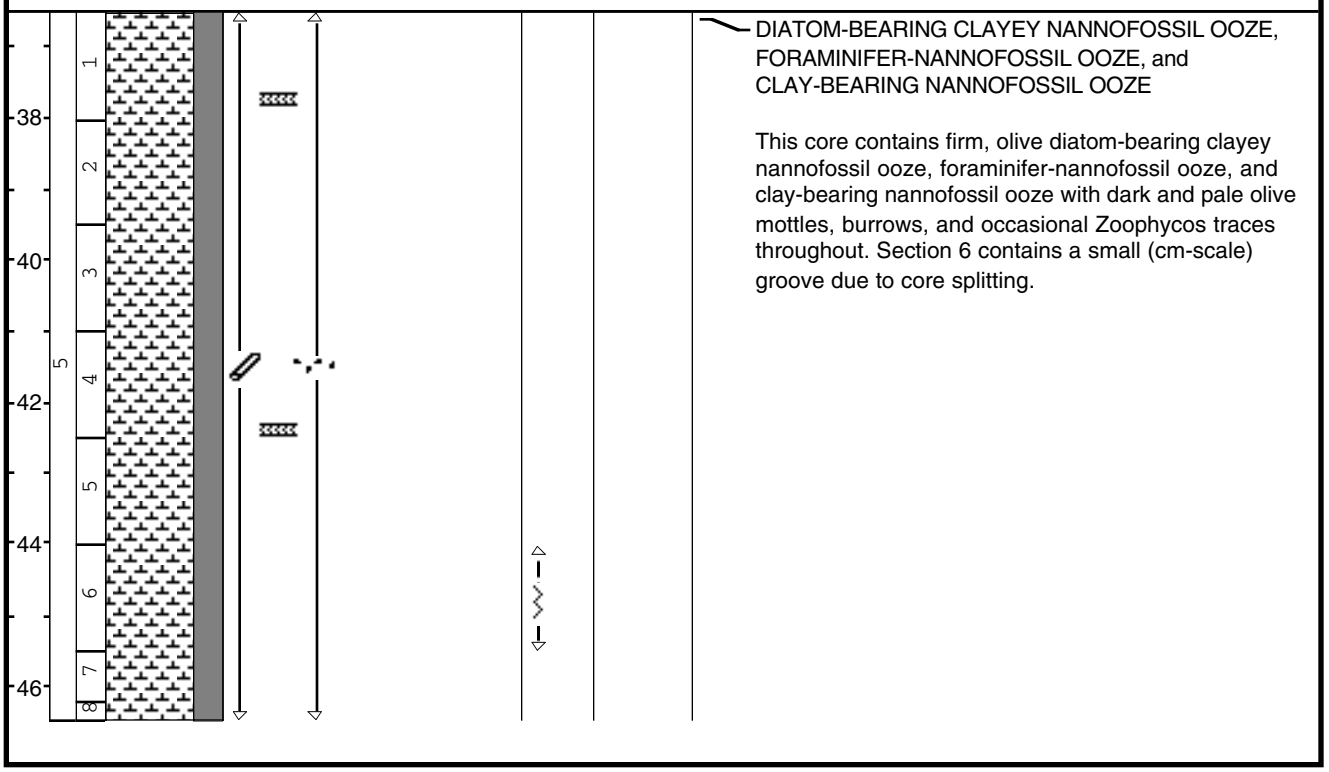
This core contains firm olive to olive gray diatom clay-bearing nannofossil ooze, diatom-bearing nannofossil ooze, and foraminifer-bearing nannofossil ooze with mottles, burrows, and occasional Zoophycos traces throughout. Section 1 is moist and soft from 0-20 cm, but the sediment becomes firm thereafter. Section 6 contains three ash layers with bioturbated contacts: 8-10 cm, 70-74 cm, 95-98 cm.

Core Photo

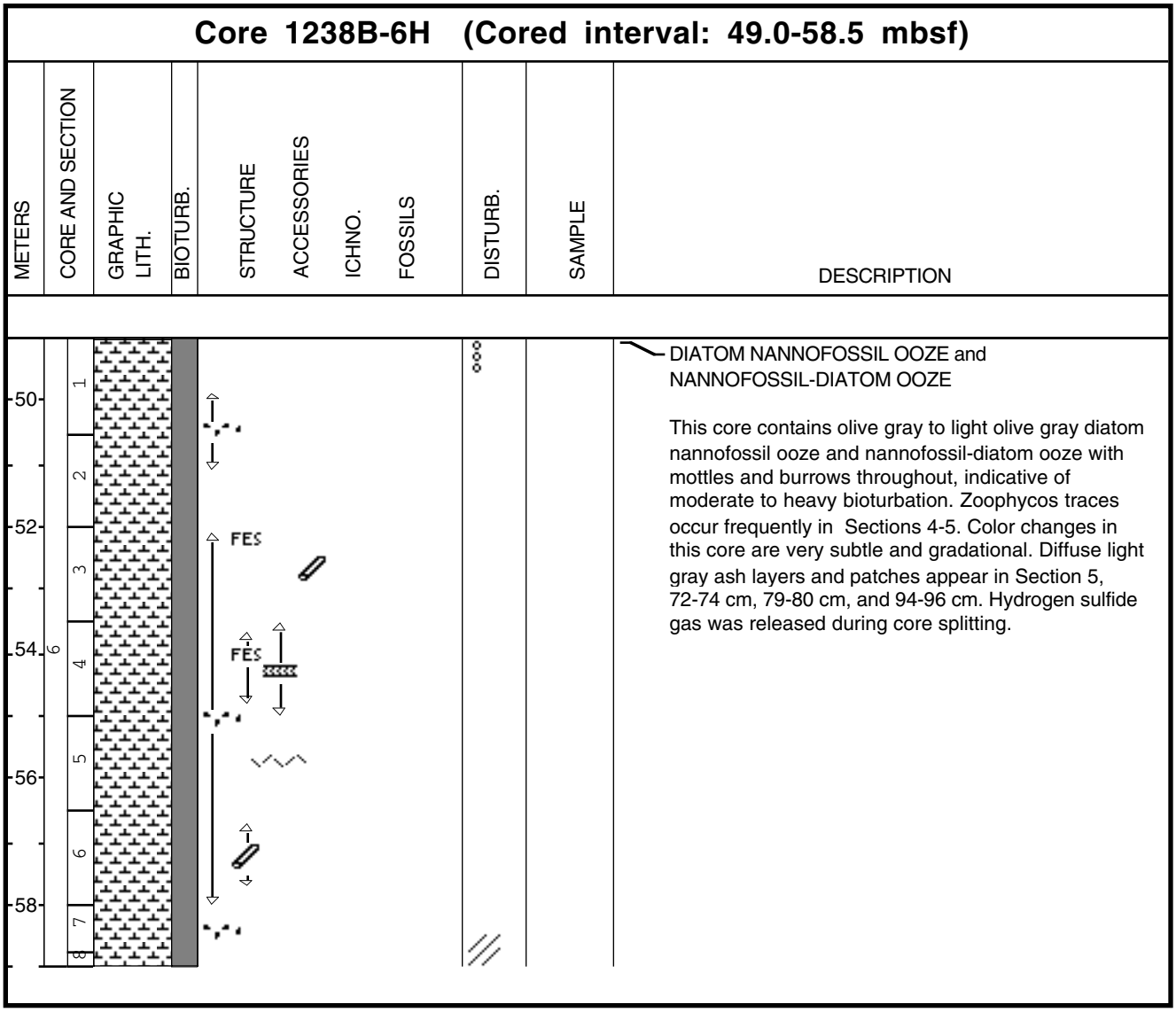

Core 1238B-4H (Cored interval: 27.0-36.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
28
30
32
34
36
4
1
2
3
4
5
6
7
8
FES
DIATOM-BEARING NANNOFOSSIL OOZE and
DIATOM-BEARING CLAYEY NANNOFOSSIL OOZE
This core contains olive gray to light olive gray diatom-bearing nannofossil ooze and diatom-bearing clayey nannofossil ooze with mottles and burrows throughout, indicative of moderate to heavy bioturbation. Zoophycos traces occur in Sections 2 and 5-7. Color changes in this core are very subtle and gradational. There is a light gray ash layer in Section 3, 95-100 cm with a mottled basal contact. Sulfides occur on the sediment surface as black spots in Section 2. Hydrogen sulfide gas was released during core splitting.

Core Photo

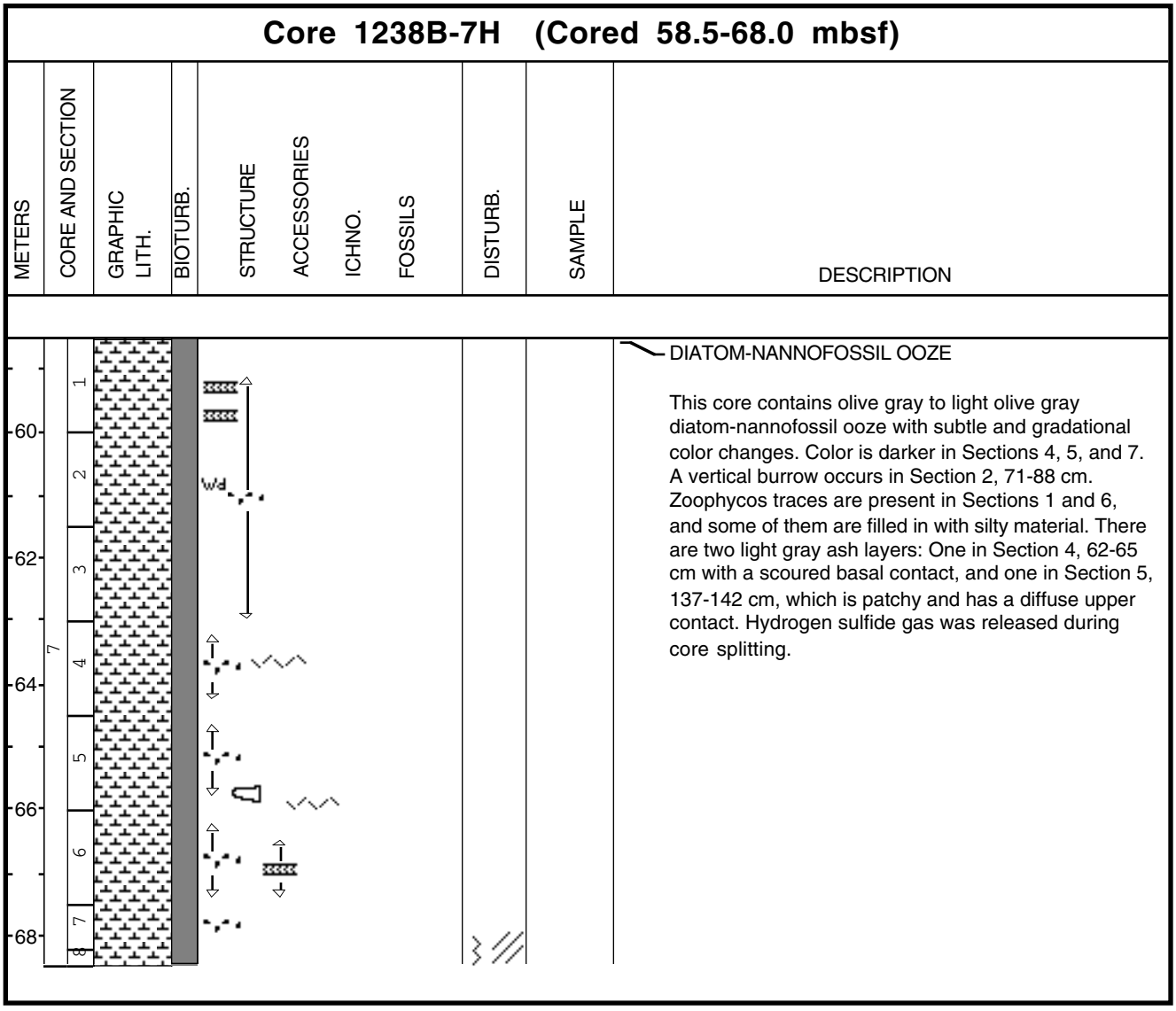
Core 1238B-5H (Cored interval: 36.5-46.0 mbsf)



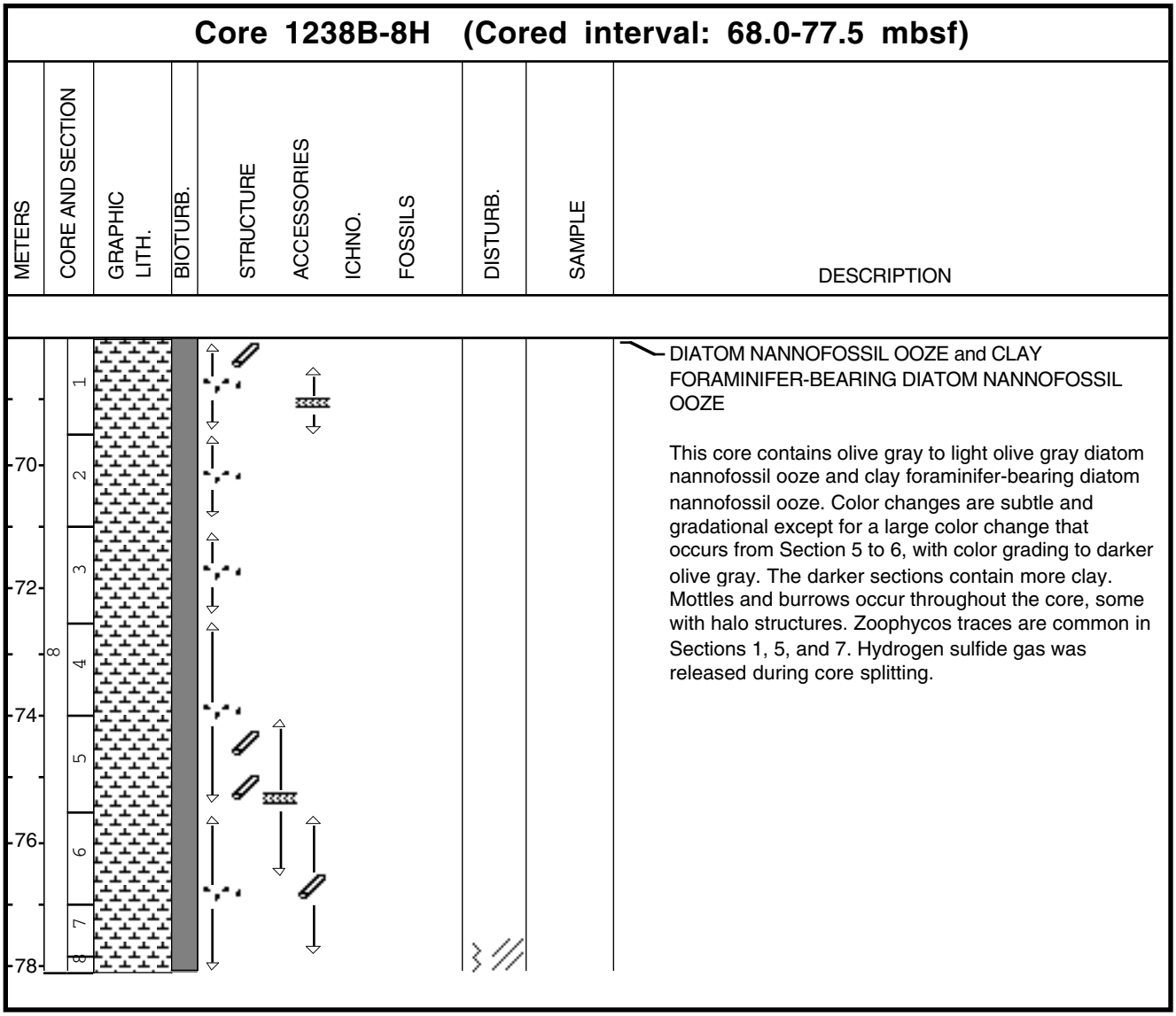
Core Photo


Core 1238B-6H (Cored interval: 49.0-58.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
50
52
54
56
58
6
1
2
3
4
5
6
7
8
FES
FES
DIATOM NANNOFOSSIL OOZE and
NANNOFOSSIL-DIATOM OOZE
This core contains olive gray to light olive gray diatom nannofossil ooze and nannofossil-diatom ooze with mottles and burrows throughout, indicative of moderate to heavy bioturbation. Zoophycos traces occur frequently in Sections 4-5. Color changes in this core are very subtle and gradational. Diffuse light gray ash layers and patches appear in Section 5, 72-74 cm, 79-80 cm, and 94-96 cm. Hydrogen sulfide gas was released during core splitting.

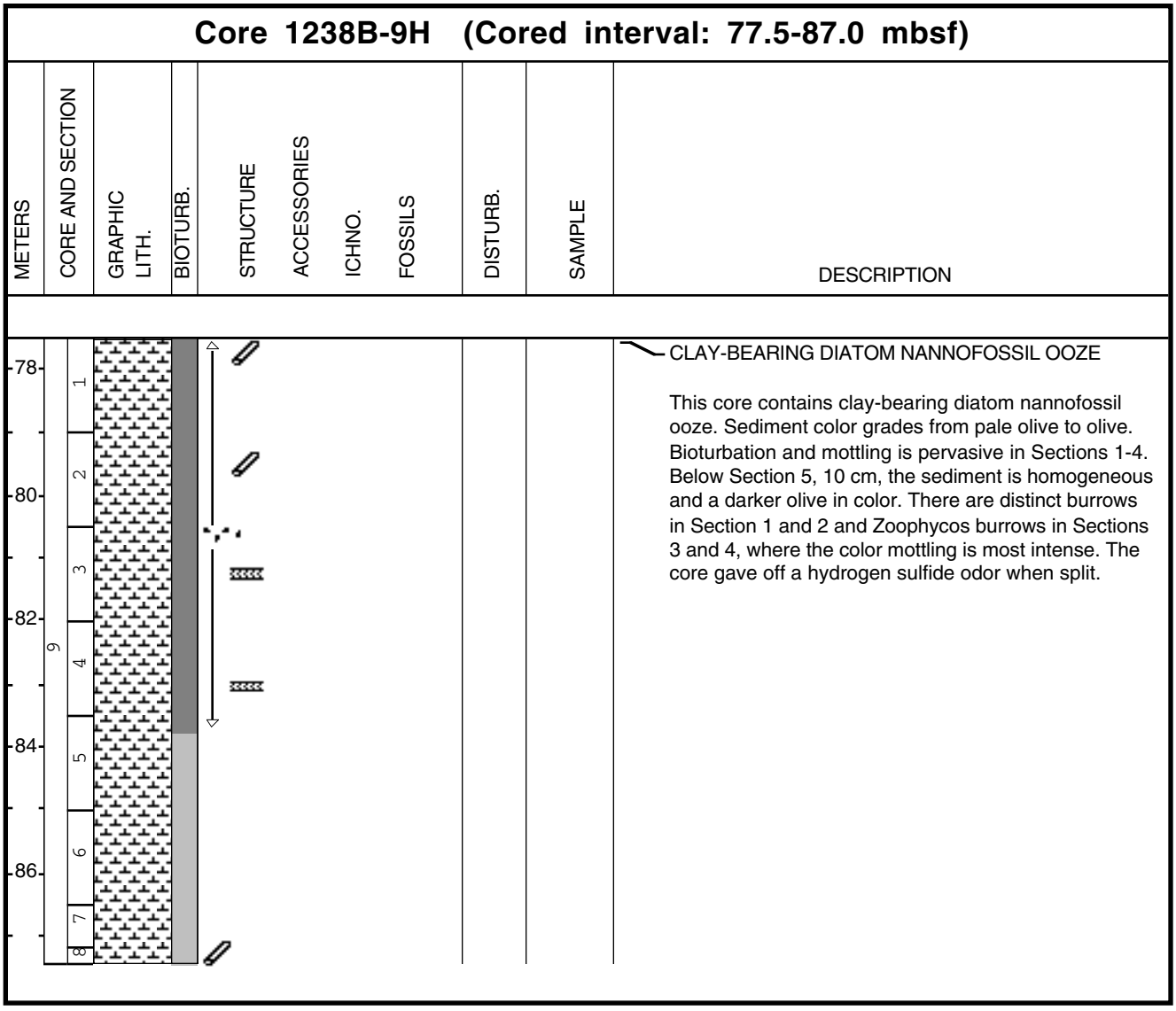
Core Photo


Core 1238B-7H (Cored 58.5-68.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
60
62
64
66
68
7
1
2
3
4
5
6
7
8
Wd
DIATOM-NANNOFOSSIL OOZE
This core contains olive gray to light olive gray diatom-nannofossil ooze with subtle and gradational color changes. Color is darker in Sections 4, 5, and 7. A vertical burrow occurs in Section 2, 71-88 cm. Zoophycos traces are present in Sections 1 and 6, and some of them are filled in with silty material. There are two light gray ash layers: One in Section 4, 62-65 cm with a scoured basal contact, and one in Section 5, 137-142 cm, which is patchy and has a diffuse upper contact. Hydrogen sulfide gas was released during core splitting.

Core Photo

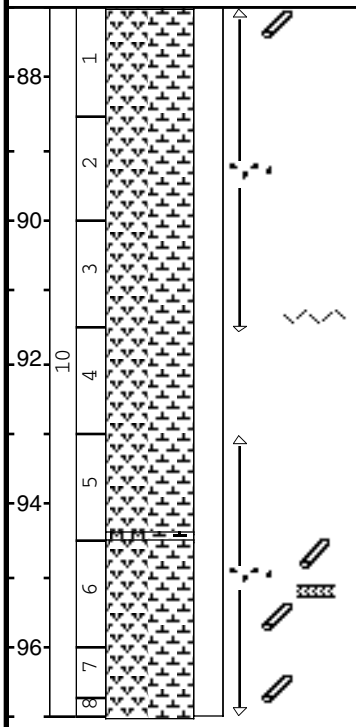

Core 1238B-8H (Cored interval: 68.0-77.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
70
72
74
76
78
8
1
2
3
4
5
6
7
8
DIATOM NANNOFOSSIL OOZE and CLAY
FORAMINIFER-BEARING DIATOM NANNOFOSSIL OOZE
This core contains olive gray to light olive gray diatom nannofossil ooze and clay foraminifer-bearing diatom nannofossil ooze. Color changes are subtle and gradational except for a large color change that occurs from Section 5 to 6, with color grading to darker olive gray. The darker sections contain more clay. Mottles and burrows occur throughout the core, some with halo structures. Zoophycos traces are common in Sections 1, 5, and 7. Hydrogen sulfide gas was released during core splitting.

Core Photo


Core 1238B-9H (Cored interval: 77.5-87.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
78
80
82
84
86
9
1
2
3
4
5
6
7
8
CLAY-BEARING DIATOM NANNOFOSSIL OOZE
This core contains clay-bearing diatom nannofossil ooze. Sediment color grades from pale olive to olive. Bioturbation and mottling is pervasive in Sections 1-4. Below Section 5, 10 cm, the sediment is homogeneous and a darker olive in color. There are distinct burrows in Section 1 and 2 and Zoophycos burrows in Sections 3 and 4, where the color mottling is most intense. The core gave off a hydrogen sulfide odor when split.

Core Photo

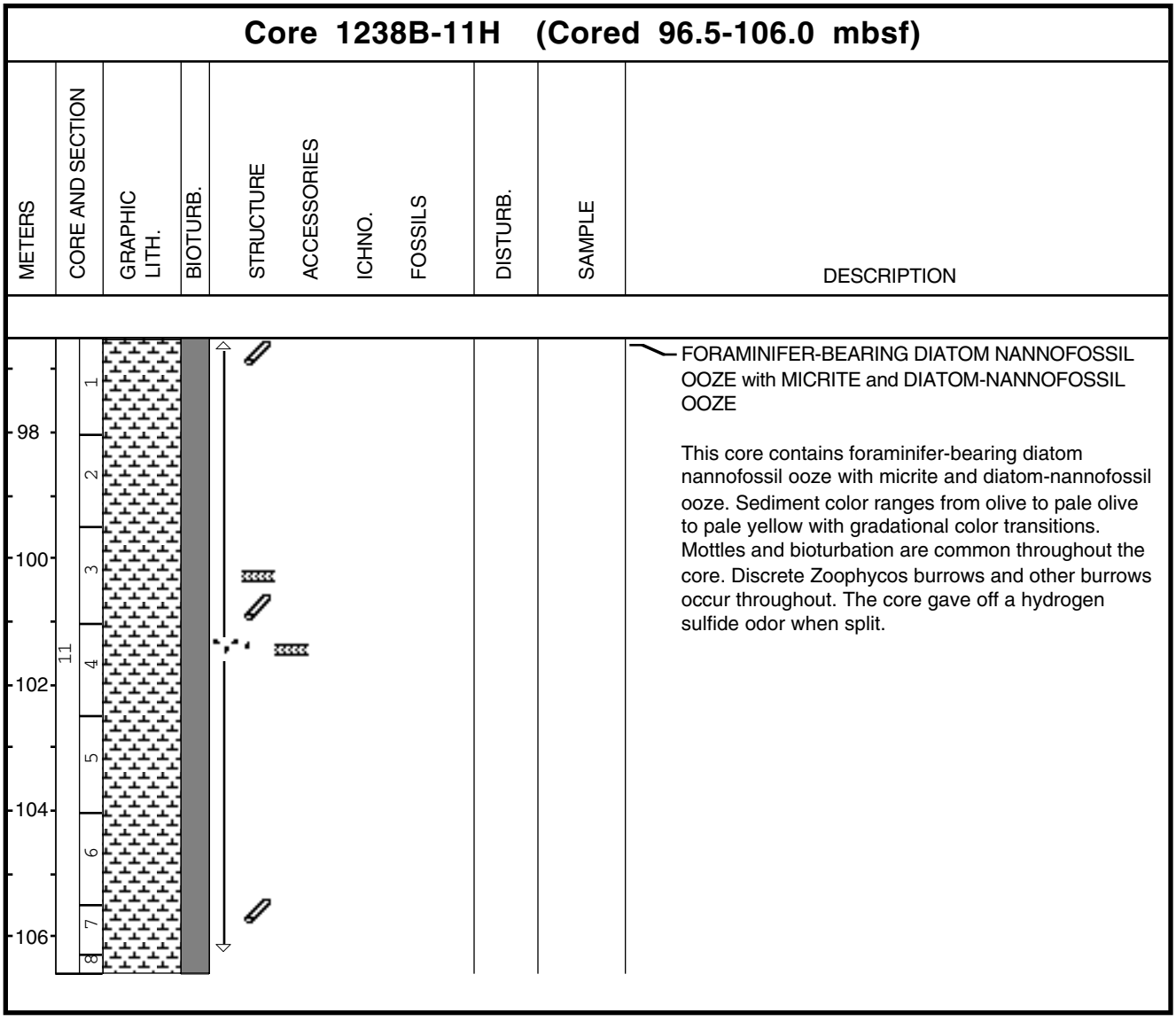
Core 1238B-10H (Cored interval: 87.0-96.5 mbsf)



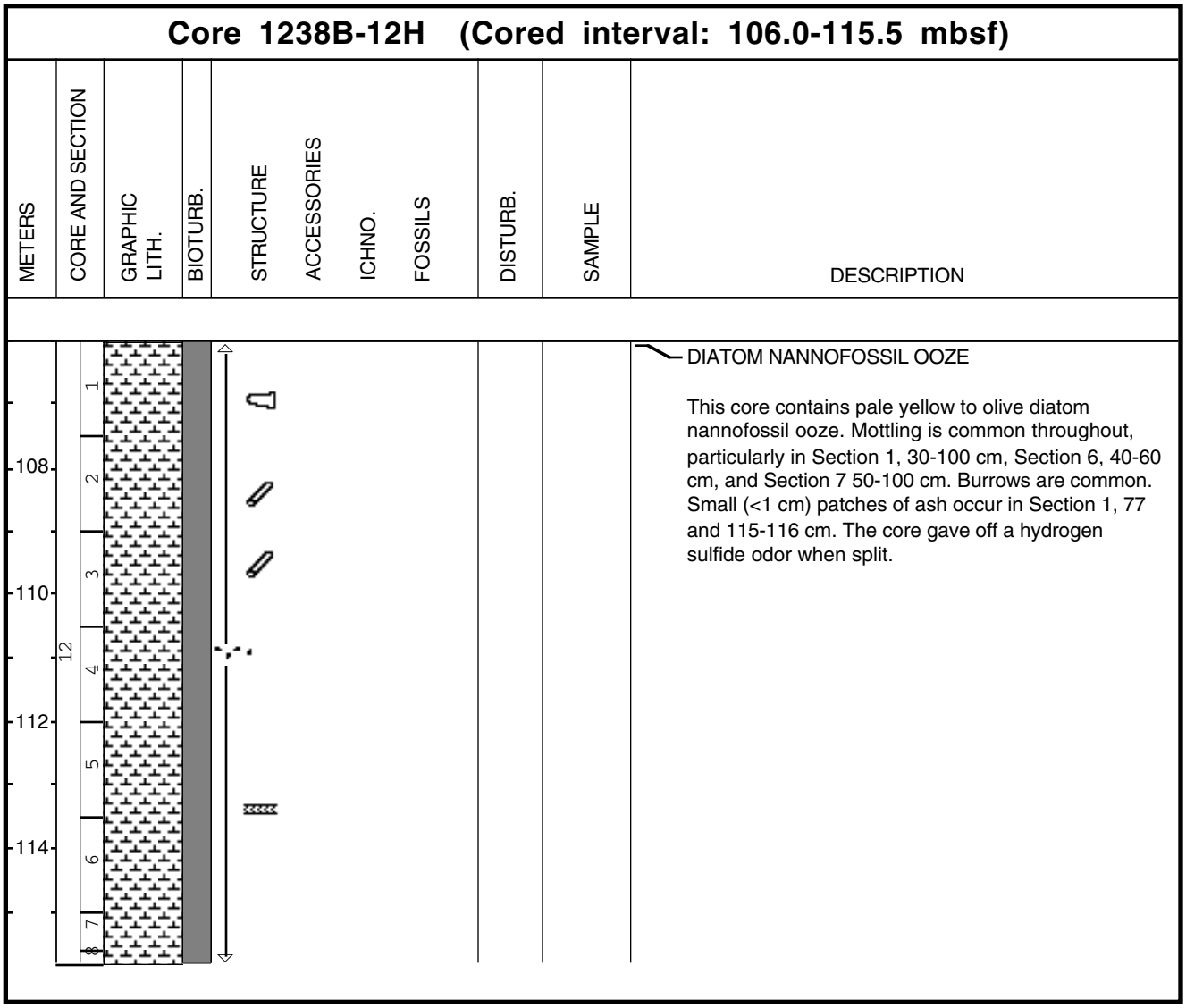
DIATOM NANNOFOSSIL OOZE, CLAY-BEARING NANNOFOSSIL DIATOM OOZE with MICRITE, and UNLITHIFIED NANNOFOSSIL-BEARING DIATOM MUDSTONE

This core contains diatom nannofossil ooze, clay-bearing nannofossil diatom ooze with micrite, and unlithified nannofossil-bearing diatom mudstone. Nannofossils and diatoms are present in nearly equal throughout the core. Sediment color varies cyclically (m-scale) between olive and pale olive. Bioturbation and mottles are pervasive. A medium gray ash layer is present in Section 3, 136-140 cm. The ash has a sharp basal contact with a diffuse upper contact and some small ash patches below. Section 6 contains numerous discrete burrows, including one 40-cm long vertical burrow between 110 and 150 cm. The core gave off a hydrogen sulfide odor when split.

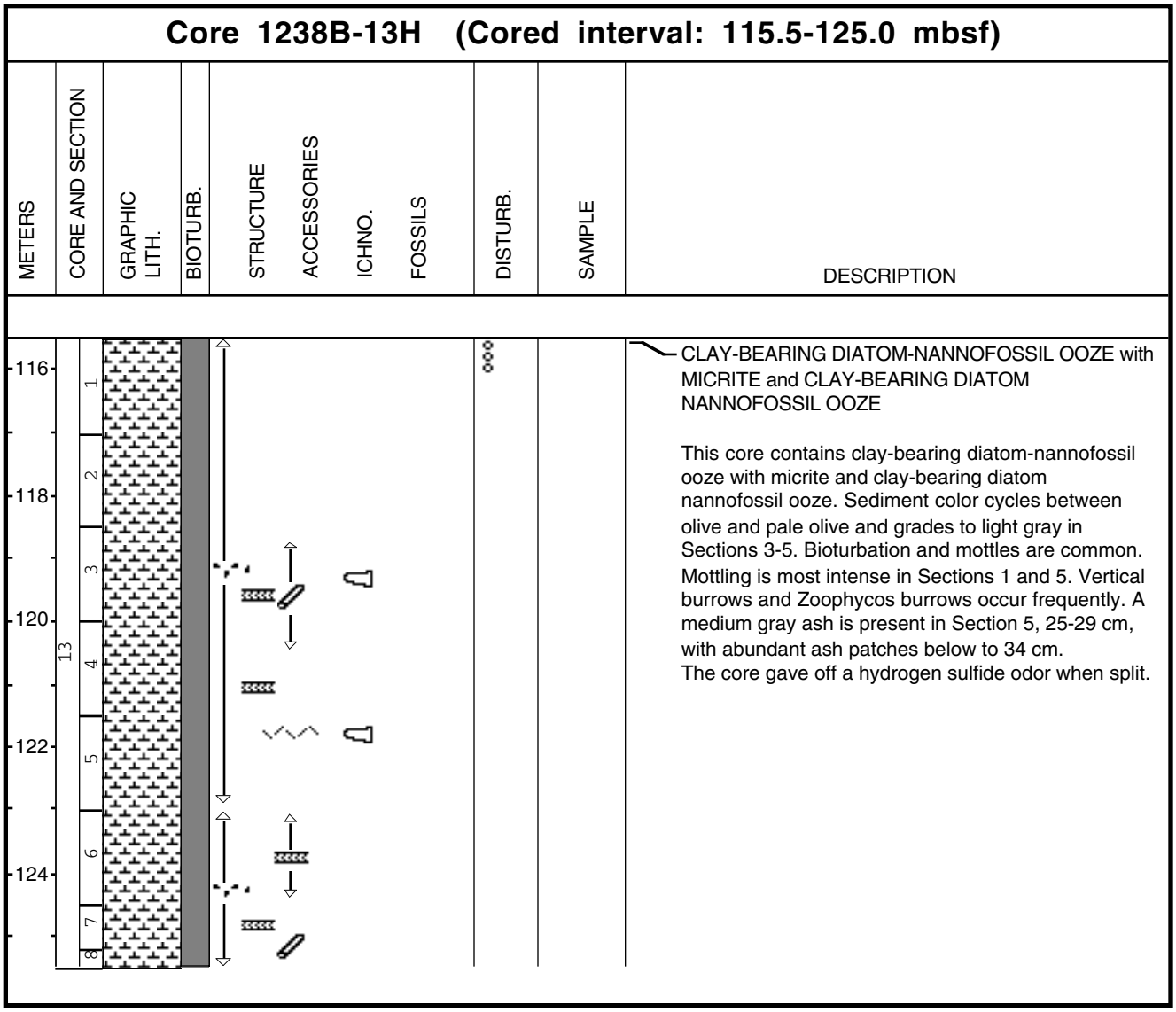
Core Photo


Core 1238B-11H (Cored 96.5-106.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
98
100
102
104
106
11
1
2
3
4
5
6
7
8
FORAMINIFER-BEARING DIATOM NANNOFOSSIL OOZE with MICRITE and DIATOM-NANNOFOSSIL OOZE
This core contains foraminifer-bearing diatom nannofossil ooze with micrite and diatom-nannofossil ooze. Sediment color ranges from olive to pale olive to pale yellow with gradational color transitions. Mottles and bioturbation are common throughout the core. Discrete Zoophycos burrows and other burrows occur throughout. The core gave off a hydrogen sulfide odor when split.

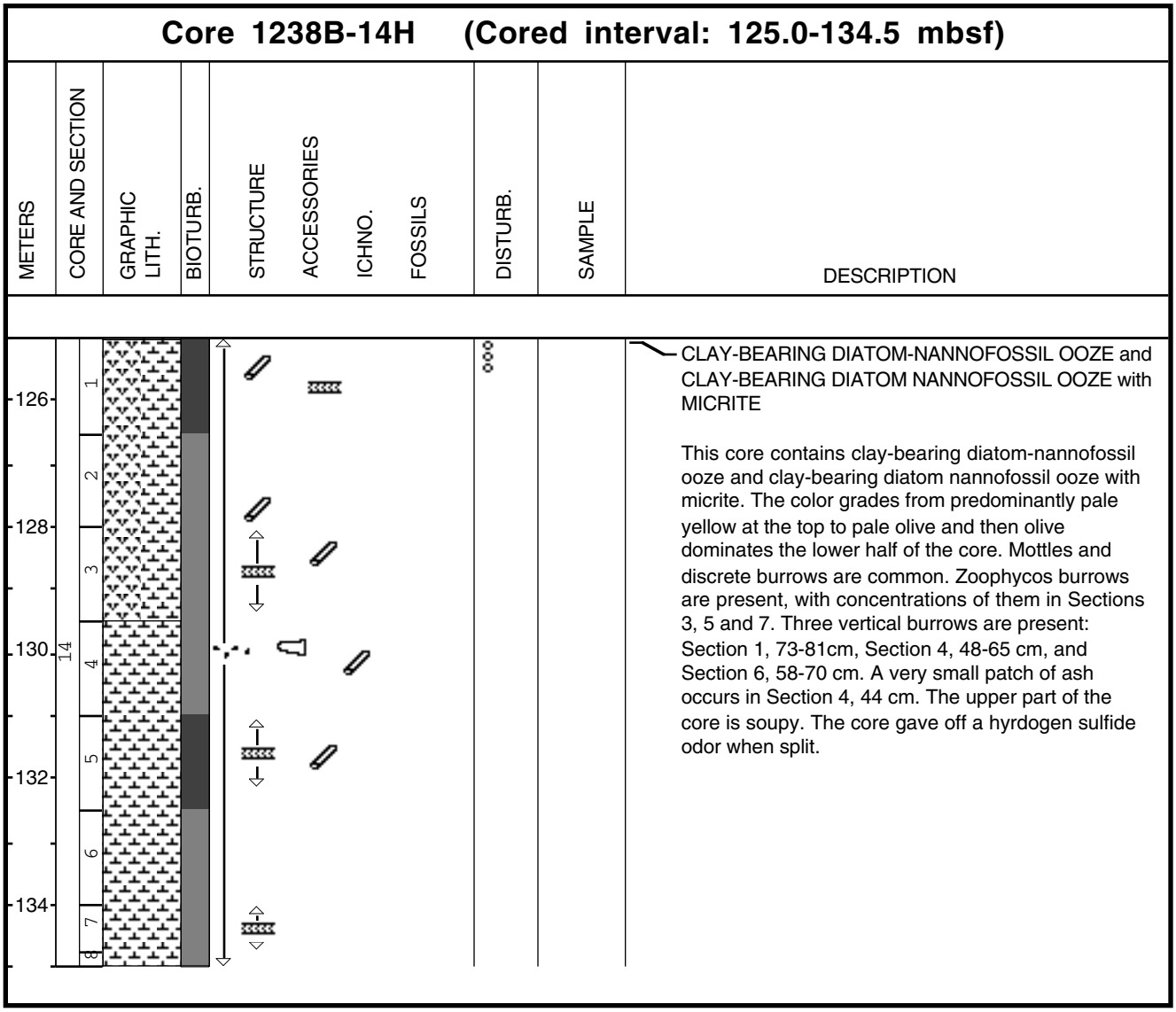
Core Photo


Core 1238B-12H (Cored interval: 106.0-115.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
108
110
112
114
12
1
2
3
4
5
6
7
DIATOM NANNOFOSSIL OOZE
This core contains pale yellow to olive diatom nannofossil ooze. Mottling is common throughout, particularly in Section 1, 30-100 cm, Section 6, 40-60 cm, and Section 7 50-100 cm. Burrows are common. Small (<1 cm) patches of ash occur in Section 1, 77 and 115-116 cm. The core gave off a hydrogen sulfide odor when split.

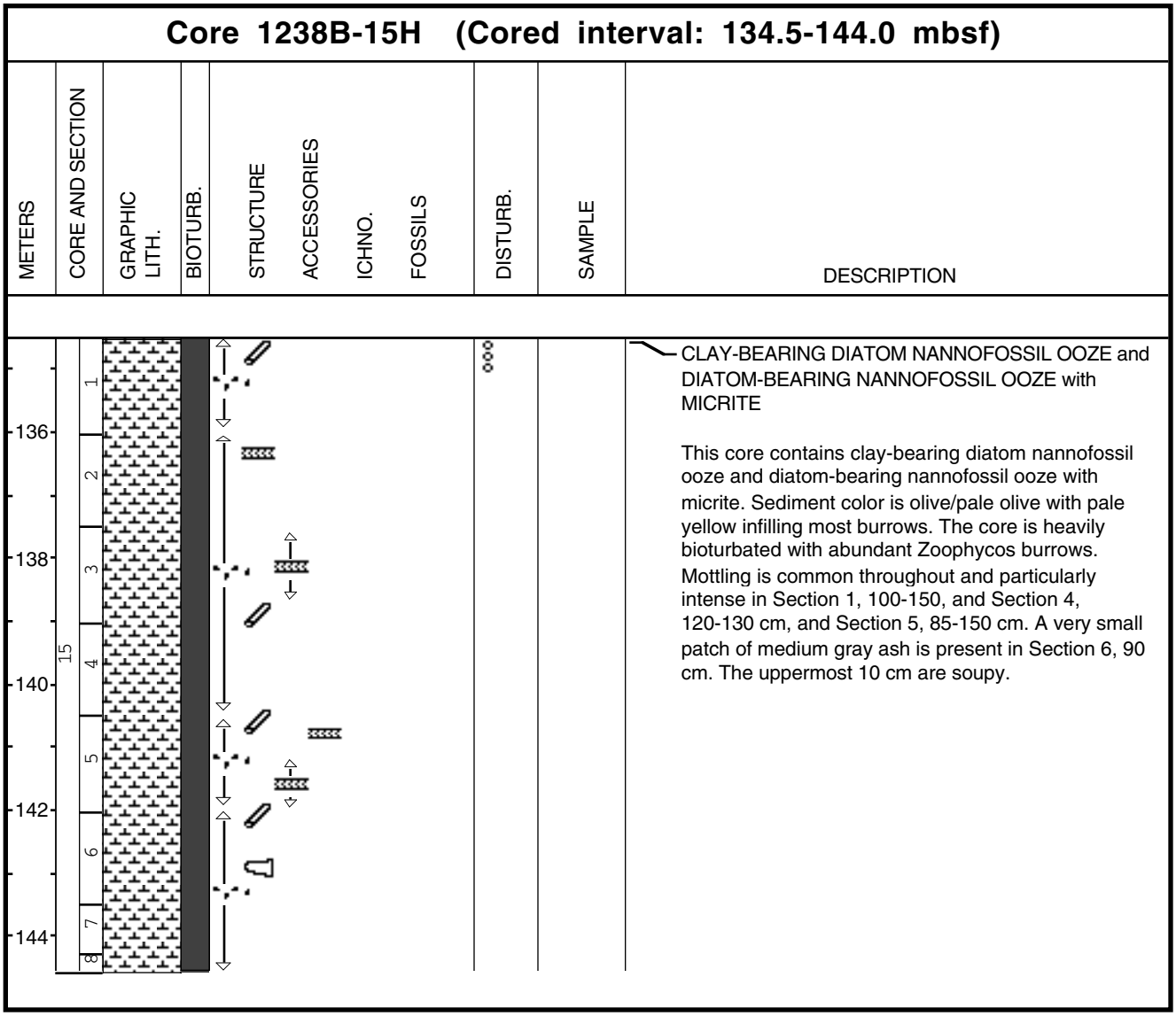
Core Photo


Core 1238B-13H (Cored interval: 115.5-125.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
116
118
120
122
124
13
1
2
3
4
5
6
7
CLAY-BEARING DIATOM-NANNOFOSSIL OOZE with MICRITE and CLAY-BEARING DIATOM NANNOFOSSIL OOZE
This core contains clay-bearing diatom-nannofossil ooze with micrite and clay-bearing diatom nannofossil ooze. Sediment color cycles between olive and pale olive and grades to light gray in Sections 3-5. Bioturbation and mottles are common. Mottling is most intense in Sections 1 and 5. Vertical burrows and Zoophycos burrows occur frequently. A medium gray ash is present in Section 5, 25-29 cm, with abundant ash patches below to 34 cm.
The core gave off a hydrogen sulfide odor when split.

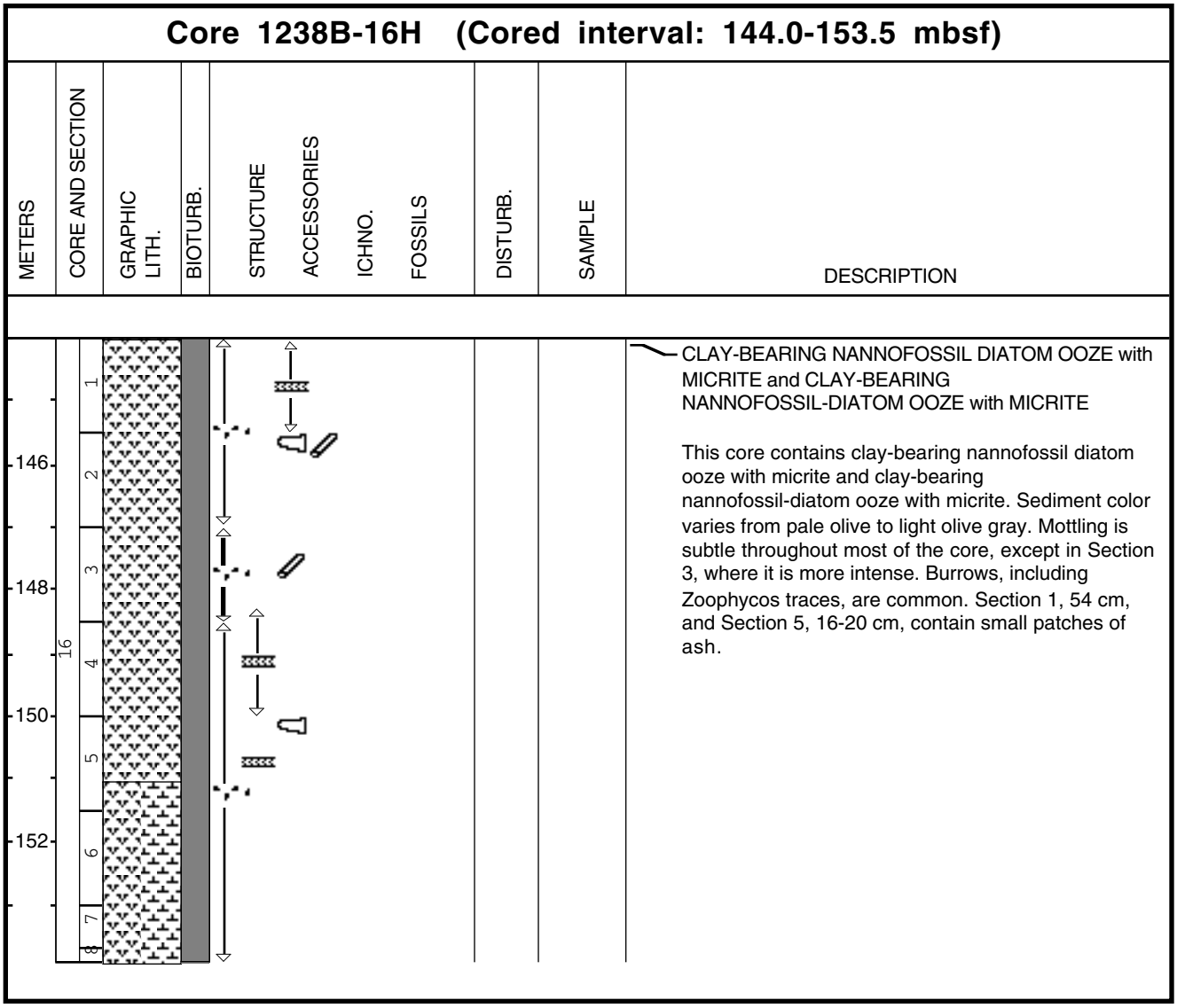
Core Photo


Core 1238B-14H (Cored interval: 125.0-134.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
126
128
130
132
134
14
1
2
3
4
5
6
7
CLAY-BEARING DIATOM-NANNOFOSSIL OOZE and CLAY-BEARING DIATOM NANNOFOSSIL OOZE with MICRITE
This core contains clay-bearing diatom-nannofossil ooze and clay-bearing diatom nannofossil ooze with micrite. The color grades from predominantly pale yellow at the top to pale olive and then olive dominates the lower half of the core. Mottles and discrete burrows are common. Zoophycos burrows are present, with concentrations of them in Sections 3, 5 and 7. Three vertical burrows are present: Section 1, 73-81cm, Section 4, 48-65 cm, and Section 6, 58-70 cm. A very small patch of ash occurs in Section 4, 44 cm. The upper part of the core is soupy. The core gave off a hyrdogen sulfide odor when split.

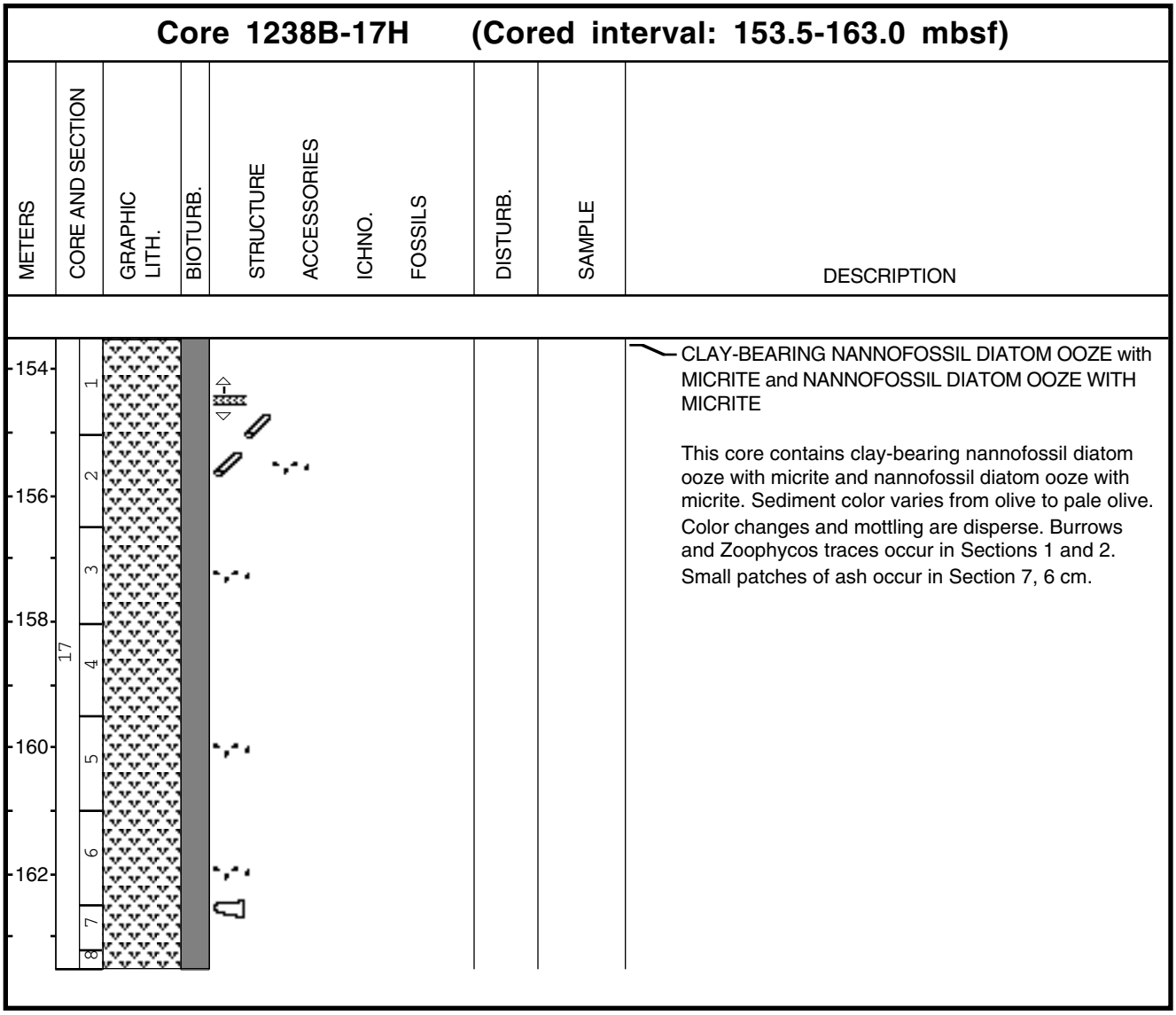
Core Photo


Core 1238B-15H (Cored interval: 134.5-144.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
136
138
140
142
144
15
1
2
3
4
5
6
7
8
CLAY-BEARING DIATOM NANNOFOSSIL OOZE and DIATOM-BEARING NANNOFOSSIL OOZE with MICRITE
This core contains clay-bearing diatom nannofossil ooze and diatom-bearing nannofossil ooze with micrite. Sediment color is olive/pale olive with pale yellow infilling most burrows. The core is heavily bioturbated with abundant Zoophycos burrows. Mottling is common throughout and particularly intense in Section 1, 100-150, and Section 4, 120-130 cm, and Section 5, 85-150 cm. A very small patch of medium gray ash is present in Section 6, 90 cm. The uppermost 10 cm are soupy.

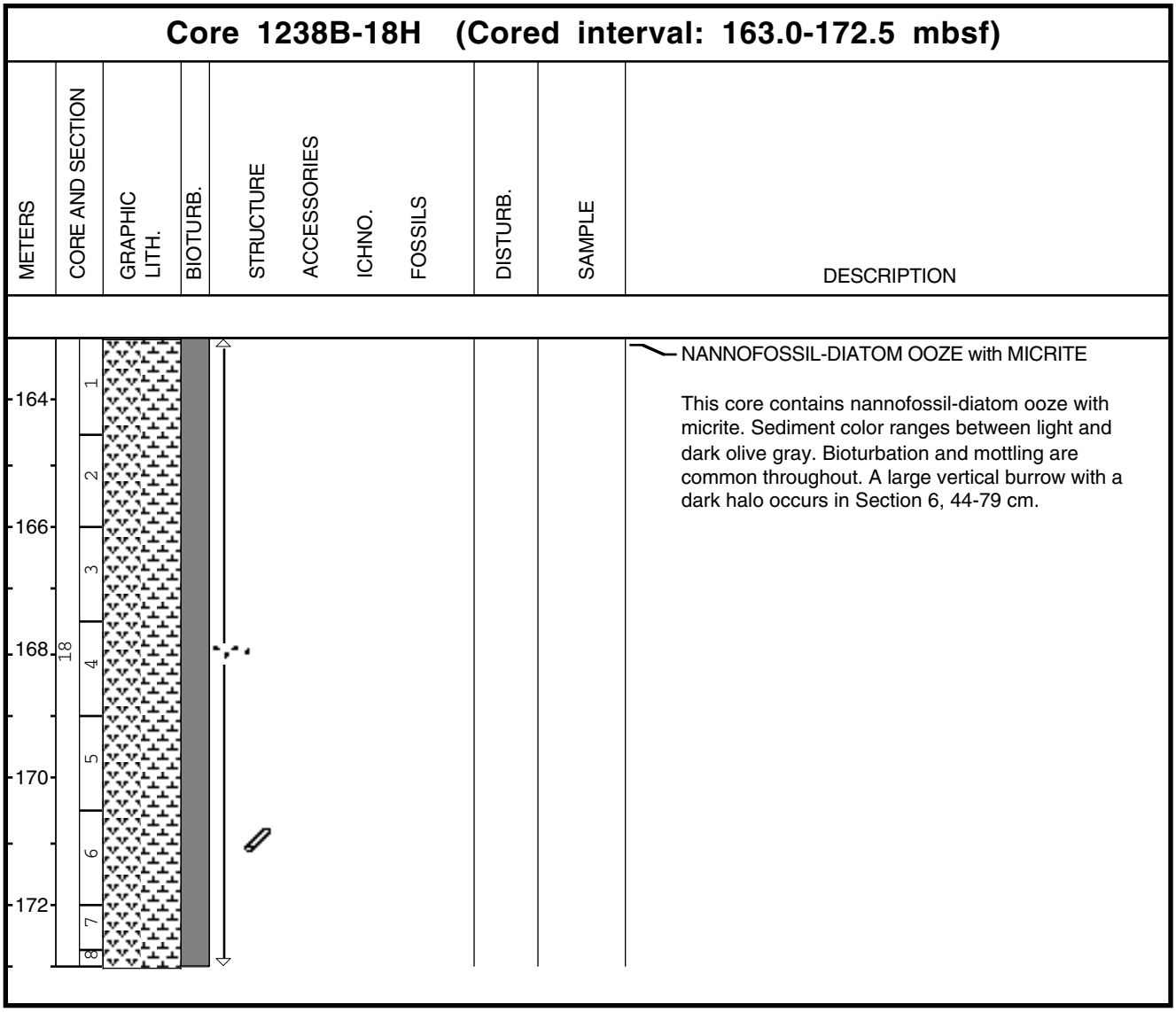
Core Photo


Core 1238B-16H (Cored interval: 144.0-153.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
146
148
150
152
16
1
2
3
4
5
6
7
8
CLAY-BEARING NANNOFOSSIL DIATOM OOZE with MICRITE and CLAY-BEARING NANNOFOSSIL-DIATOM OOZE with MICRITE
This core contains clay-bearing nannofossil diatom ooze with micrite and clay-bearing nannofossil-diatom ooze with micrite. Sediment color varies from pale olive to light olive gray. Mottling is subtle throughout most of the core, except in Section 3, where it is more intense. Burrows, including Zoophycos traces, are common. Section 1, 54 cm, and Section 5, 16-20 cm, contain small patches of ash.

Core Photo

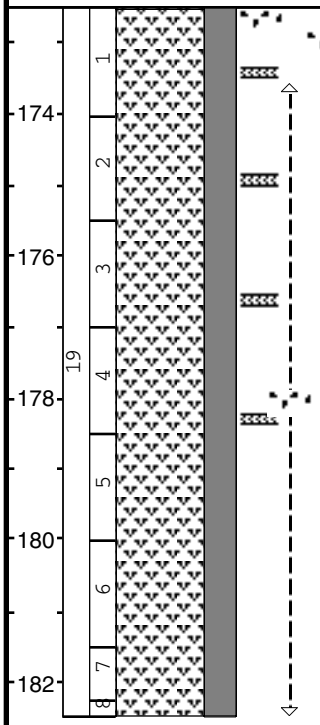

Core 1238B-17H (Cored interval: 153.5-163.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
154
156
158
160
162
17
1
2
3
4
5
6
7
8
CLAY-BEARING NANNOFOSSIL DIATOM OOZE with MICRITE and NANNOFOSSIL DIATOM OOZE WITH MICRITE
This core contains clay-bearing nannofossil diatom ooze with micrite and nannofossil diatom ooze with micrite. Sediment color varies from olive to pale olive. Color changes and mottling are disperse. Burrows and Zoophycos traces occur in Sections 1 and 2. Small patches of ash occur in Section 7, 6 cm.

Core Photo


Core 1238B-18H (Cored interval: 163.0-172.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
164
166
168
170
172
18
1
2
3
4
5
6
7
CC
NANNOFOSSIL-DIATOM OOZE with MICRITE
This core contains nannofossil-diatom ooze with micrite. Sediment color ranges between light and dark olive gray. Bioturbation and mottling are common throughout. A large vertical burrow with a dark halo occurs in Section 6, 44-79 cm.

Core Photo

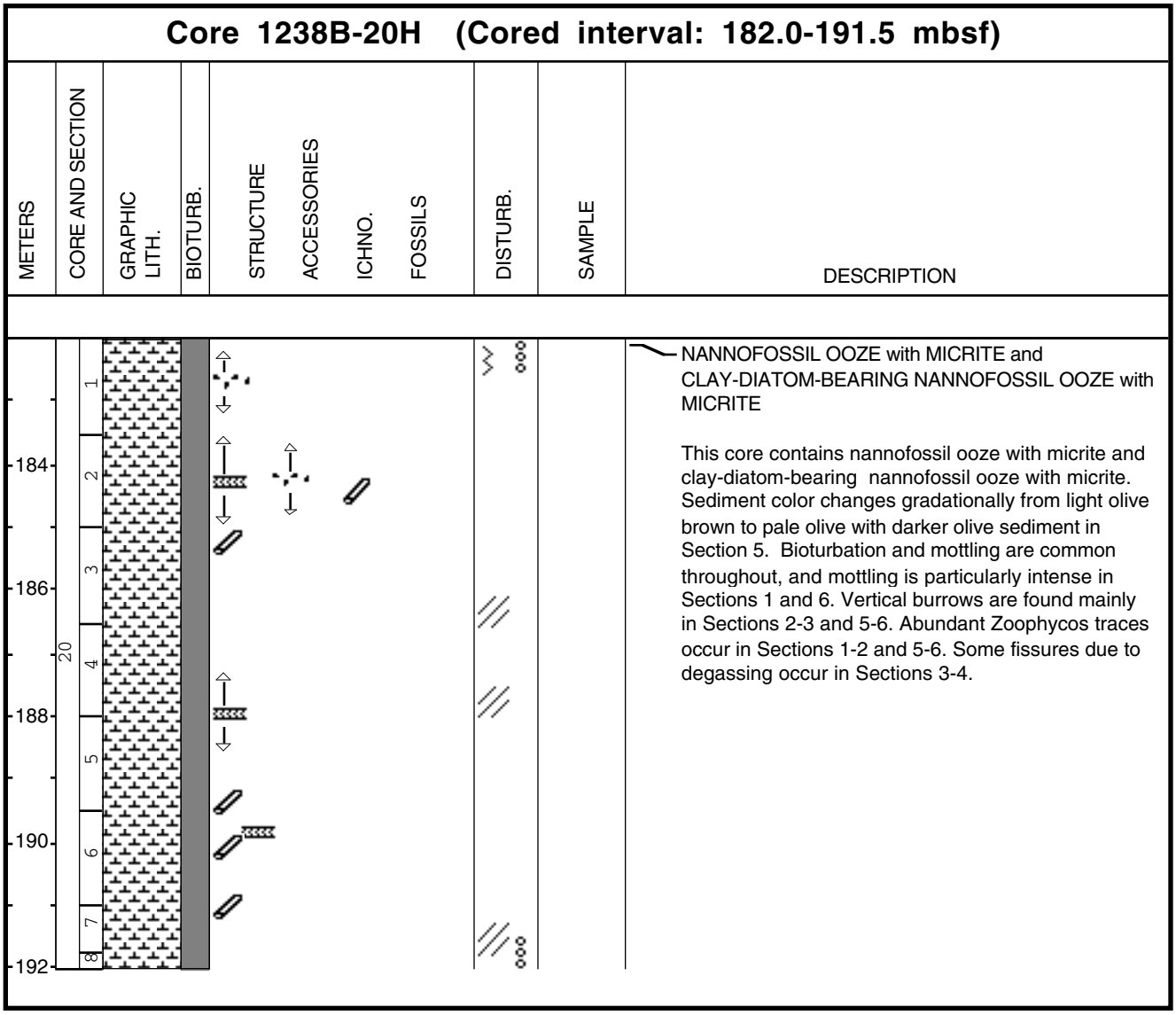
Core 1238B-19H (Cored interval: 172.5-182.0 mbsf)



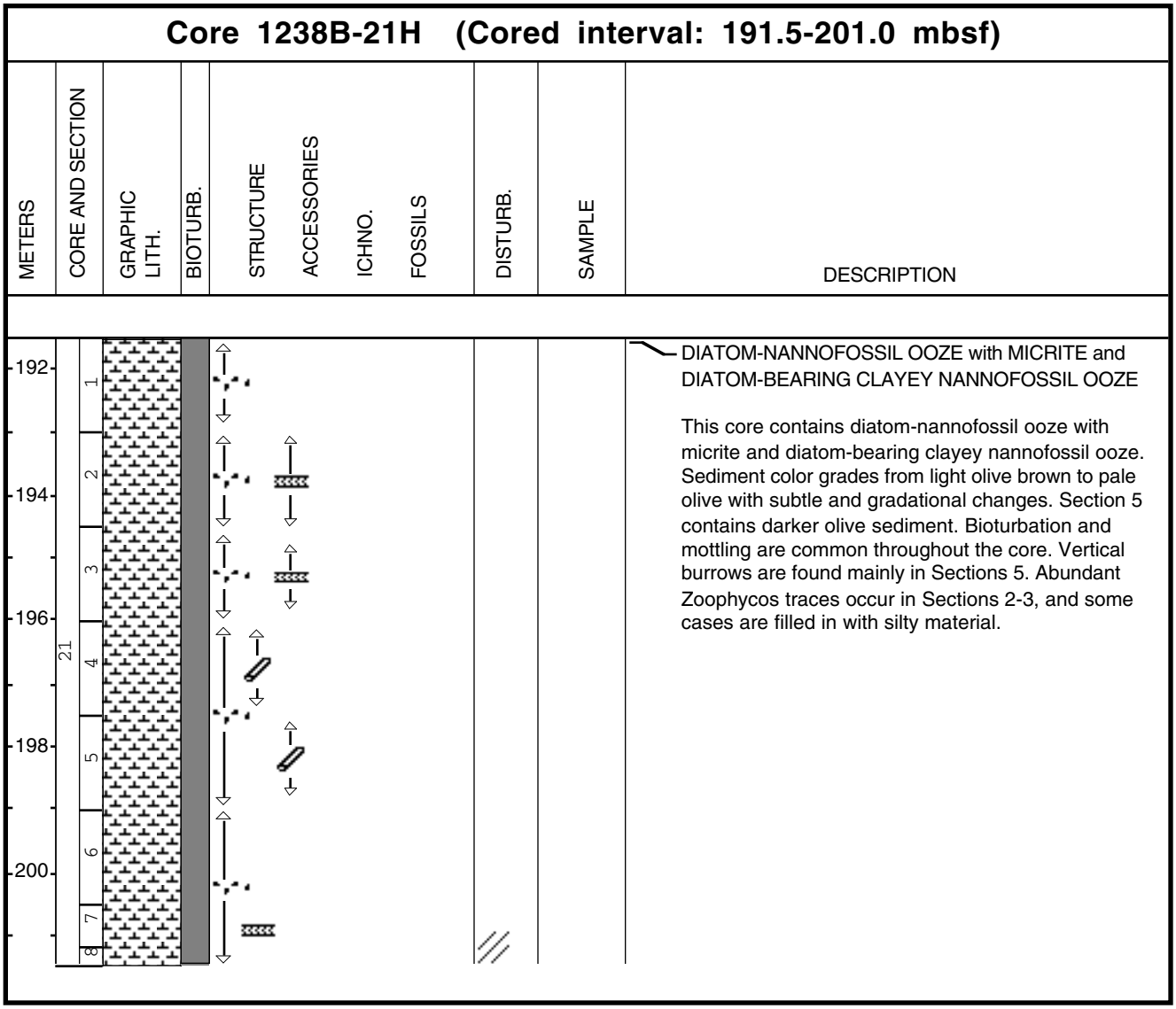
DIATOM-BEARING NANNOFOSSIL OOZE with MICRITE and DIATOM NANNOFOSSIL OOZE with MICRITE

This core contains firm, homogeneous diatom-bearing nannofossil ooze with micrite and diatom nannofossil ooze with micrite. Sediment color changes subtly and gradationally between light and dark olive gray. Moderate bioturbation occurs in all sections, as shown by faint light and dark gray mottles, Zoophycos traces, and burrow fills. Hydrogen sulfide gas was released during core splitting.

Core Photo


Core 1238B-20H (Cored interval: 182.0-191.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
184
186
188
190
192
20
1
2
3
4
5
6
7
8
NANNOFOSSIL OOZE with MICRITE and CLAY-DIATOM-BEARING NANNOFOSSIL OOZE with MICRITE
This core contains nannofossil ooze with micrite and clay-diatom-bearing nannofossil ooze with micrite. Sediment color changes gradationally from light olive brown to pale olive with darker olive sediment in Section 5. Bioturbation and mottling are common throughout, and mottling is particularly intense in Sections 1 and 6. Vertical burrows are found mainly in Sections 2-3 and 5-6. Abundant Zoophycos traces occur in Sections 1-2 and 5-6. Some fissures due to degassing occur in Sections 3-4.

Core Photo

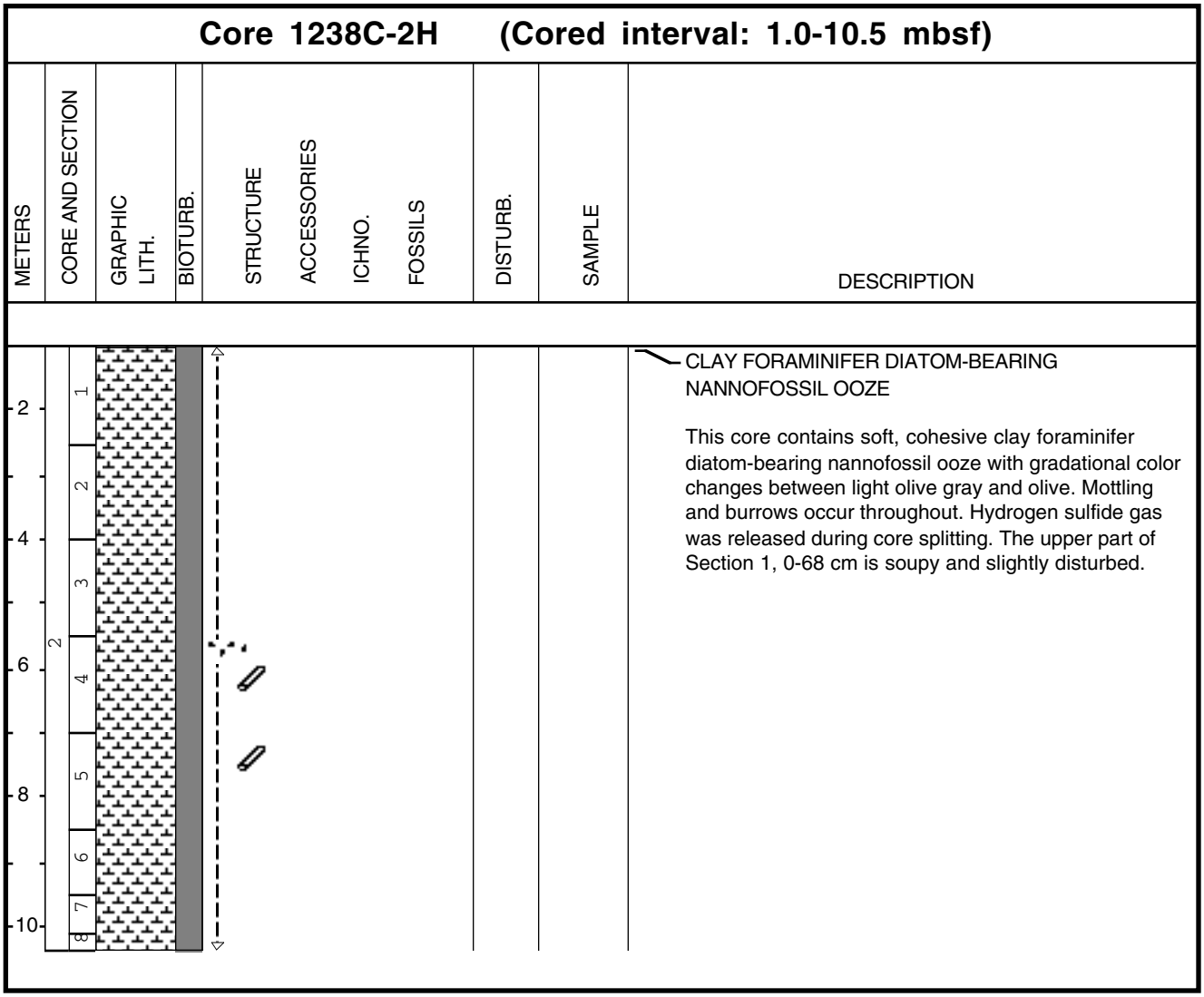

Core 1238B-21H (Cored interval: 191.5-201.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
192
194
196
198
200
21
1
2
3
4
5
6
7
8
DIATOM-NANNOFOSSIL OOZE with MICRITE and DIATOM-BEARING CLAYEY NANNOFOSSIL OOZE
This core contains diatom-nannofossil ooze with micrite and diatom-bearing clayey nannofossil ooze. Sediment color grades from light olive brown to pale olive with subtle and gradational changes. Section 5 contains darker olive sediment. Bioturbation and mottling are common throughout the core. Vertical burrows are found mainly in Sections 5. Abundant Zoophycos traces occur in Sections 2-3, and some cases are filled in with silty material.

Core Photo

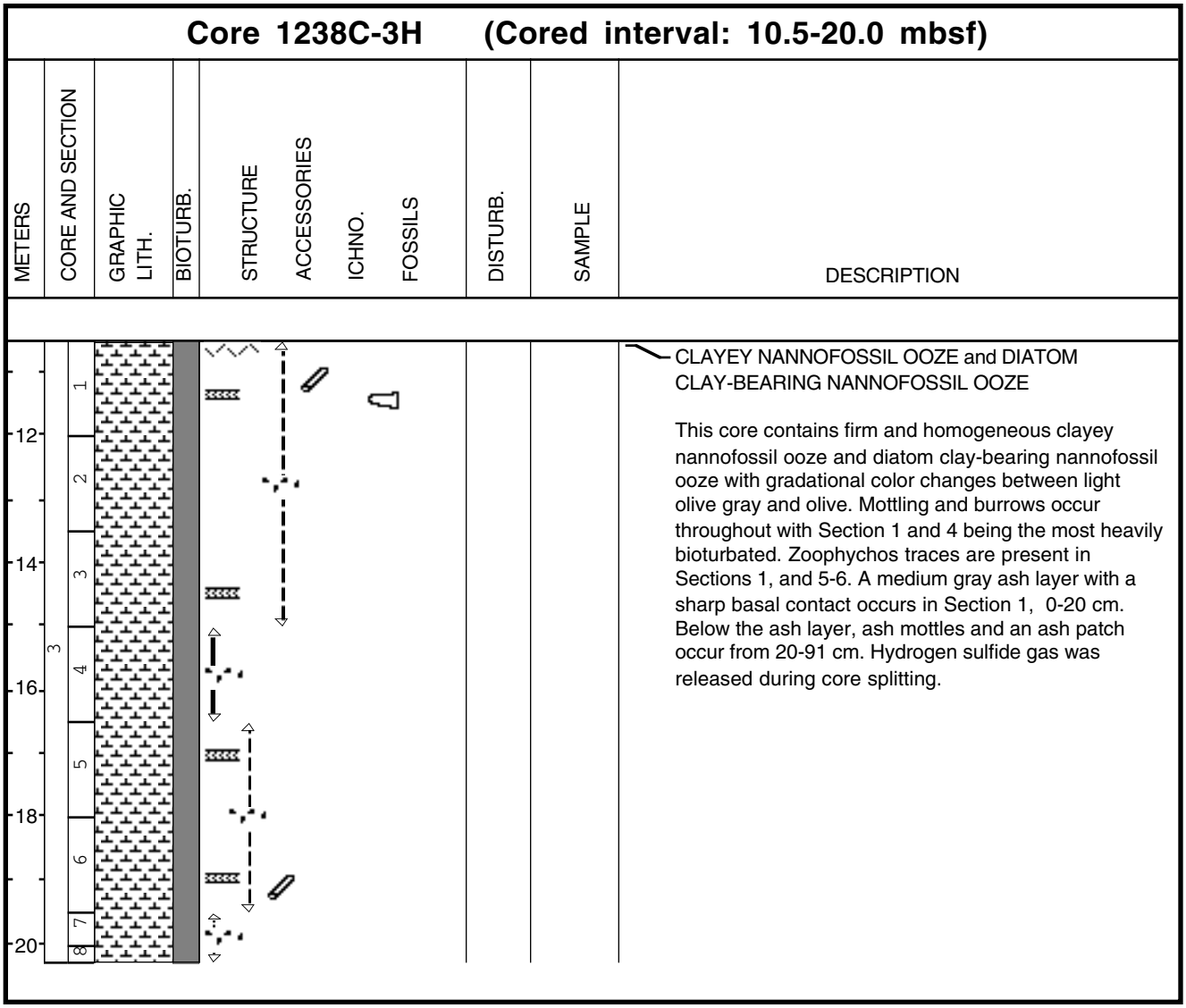
Core 1238C-1H (Cored interval: 0.0-1.0 mbsf)

METERS	CORE AND SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
	1 1 2									DIATOM CLAY-BEARING FORAMINIFER NANNOFOSSIL OOZE and CLAY DIATOM FORAMINIFER -BEARING NANNOFOSSIL OOZE This core contains soft, cohesive diatom clay-bearing foraminifer nannofossil ooze and clay diatom foraminifer-bearing nannofossil ooze. The sediment color is olive gray. Moderate bioturbation occurs in all sections, as shown by light gray mottles, Zoophycos traces, and burrow fills. Hydrogen sulfide gas was released during core splitting.

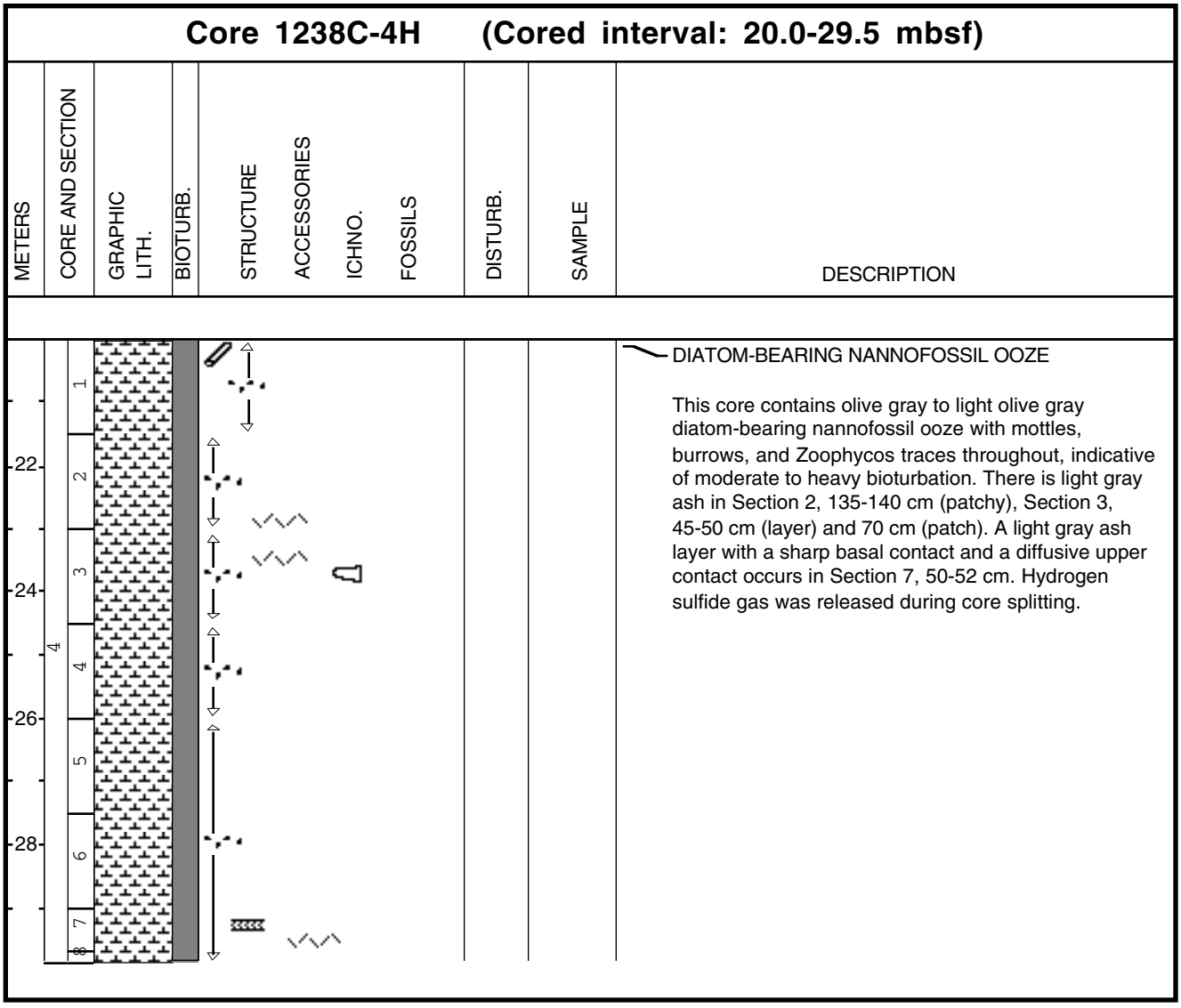
Core Photo


Core 1238C-2H (Cored interval: 1.0-10.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
2
4
6
8
10
2
1
2
3
4
5
6
7
CC
CLAY FORAMINIFER DIATOM-BEARING NANNOFOSSIL OOZE
This core contains soft, cohesive clay foraminifer diatom-bearing nannofossil ooze with gradational color changes between light olive gray and olive. Mottling and burrows occur throughout. Hydrogen sulfide gas was released during core splitting. The upper part of Section 1, 0-68 cm is soupy and slightly disturbed.

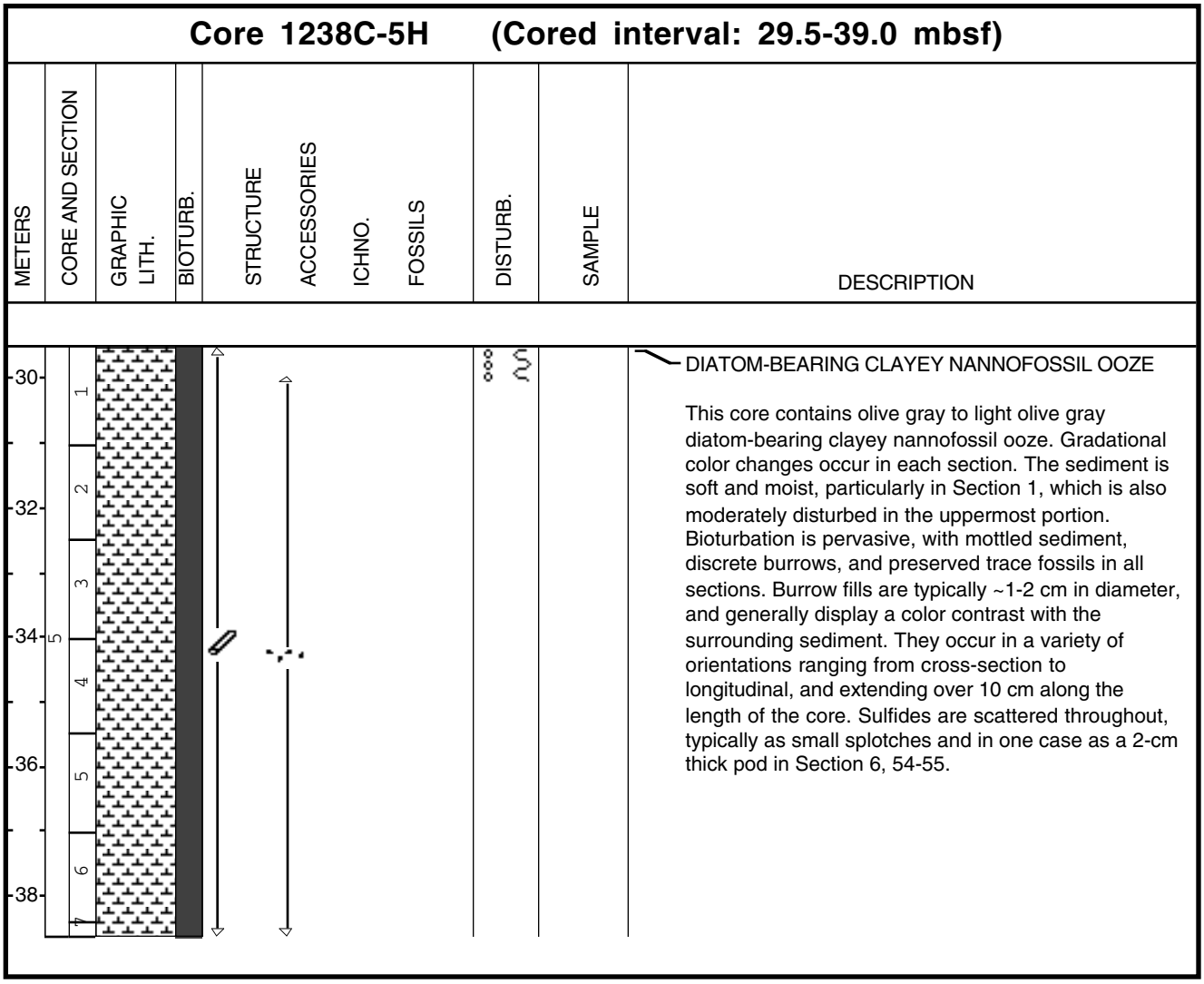
Core Photo


Core 1238C-3H (Cored interval: 10.5-20.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
12
14
16
18
20
3
1
2
3
4
5
6
7
8
CLAYEY NANNOFOSSIL OOZE and DIATOM CLAY-BEARING NANNOFOSSIL OOZE
This core contains firm and homogeneous clayey nannofossil ooze and diatom clay-bearing nannofossil ooze with gradational color changes between light olive gray and olive. Mottling and burrows occur throughout with Section 1 and 4 being the most heavily bioturbated. Zoophychos traces are present in Sections 1, and 5-6. A medium gray ash layer with a sharp basal contact occurs in Section 1, 0-20 cm. Below the ash layer, ash mottles and an ash patch occur from 20-91 cm. Hydrogen sulfide gas was released during core splitting.

Core Photo

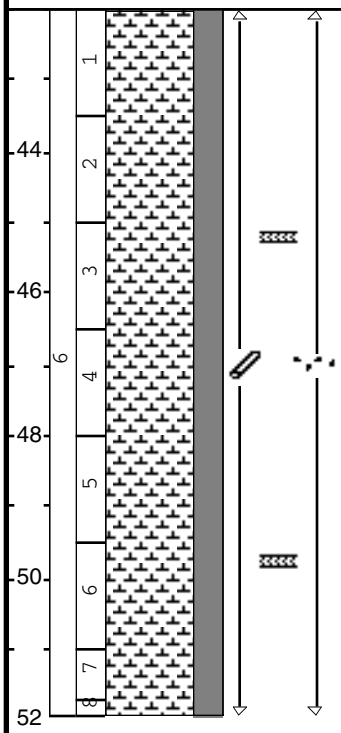

Core 1238C-4H (Cored interval: 20.0-29.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
22
24
26
28
4
1
2
3
4
5
6
7
8
DIATOM-BEARING NANNOFOSSIL OOZE
This core contains olive gray to light olive gray diatom-bearing nannofossil ooze with mottles, burrows, and Zoophycos traces throughout, indicative of moderate to heavy bioturbation. There is light gray ash in Section 2, 135-140 cm (patchy), Section 3, 45-50 cm (layer) and 70 cm (patch). A light gray ash layer with a sharp basal contact and a diffusive upper contact occurs in Section 7, 50-52 cm. Hydrogen sulfide gas was released during core splitting.

Core Photo


Core 1238C-5H (Cored interval: 29.5-39.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
30
32
34
36
38
5
1
2
3
4
5
6
7
DIATOM-BEARING CLAYEY NANNOFOSSIL OOZE
This core contains olive gray to light olive gray diatom-bearing clayey nannofossil ooze. Gradational color changes occur in each section. The sediment is soft and moist, particularly in Section 1, which is also moderately disturbed in the uppermost portion. Bioturbation is pervasive, with mottled sediment, discrete burrows, and preserved trace fossils in all sections. Burrow fills are typically ~1-2 cm in diameter, and generally display a color contrast with the surrounding sediment. They occur in a variety of orientations ranging from cross-section to longitudinal, and extending over 10 cm along the length of the core. Sulfides are scattered throughout, typically as small splotches and in one case as a 2-cm thick pod in Section 6, 54-55.

Core Photo

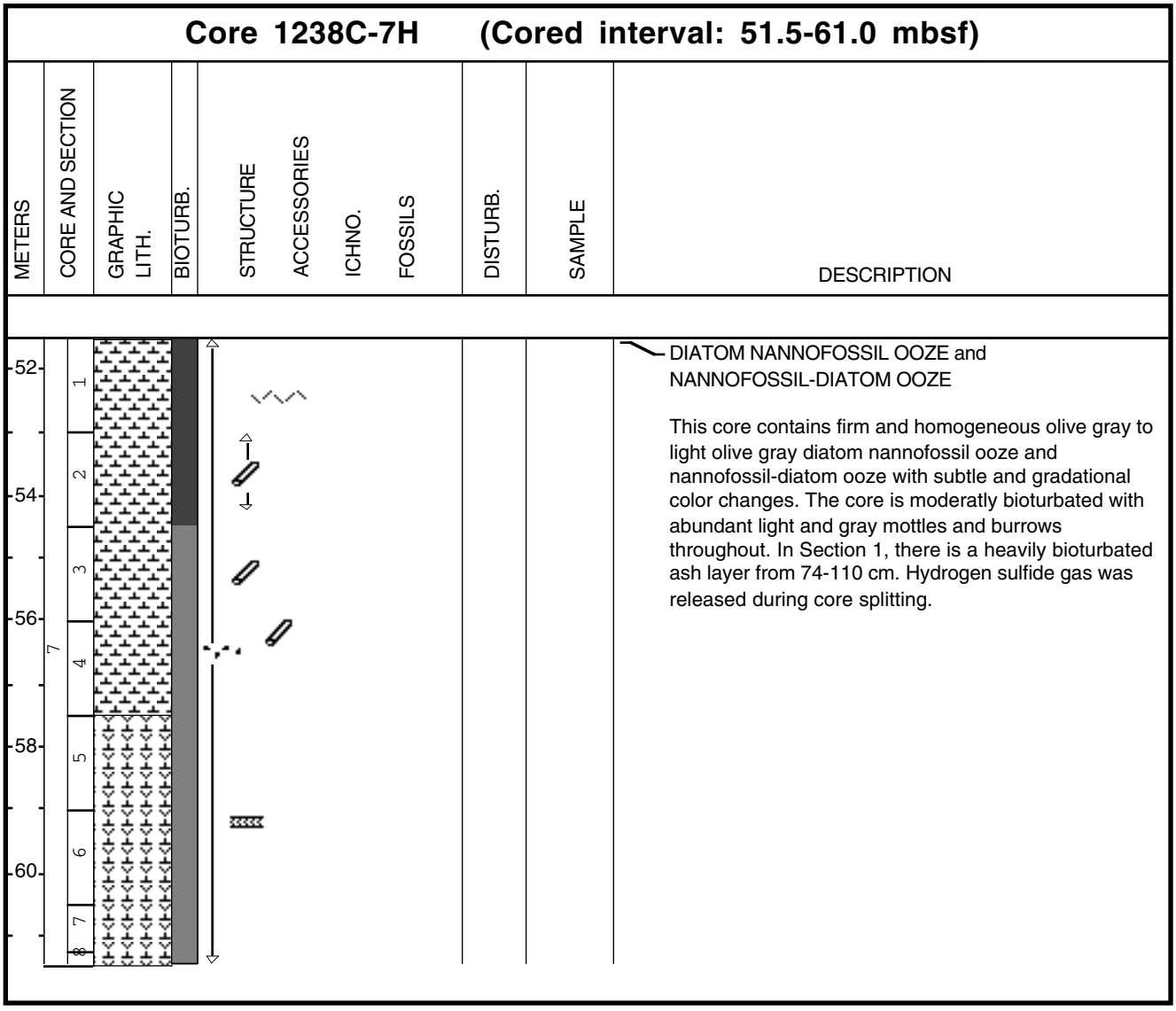
Core 1238C-6H (Cored interval: 42.0-51.5 mbsf)



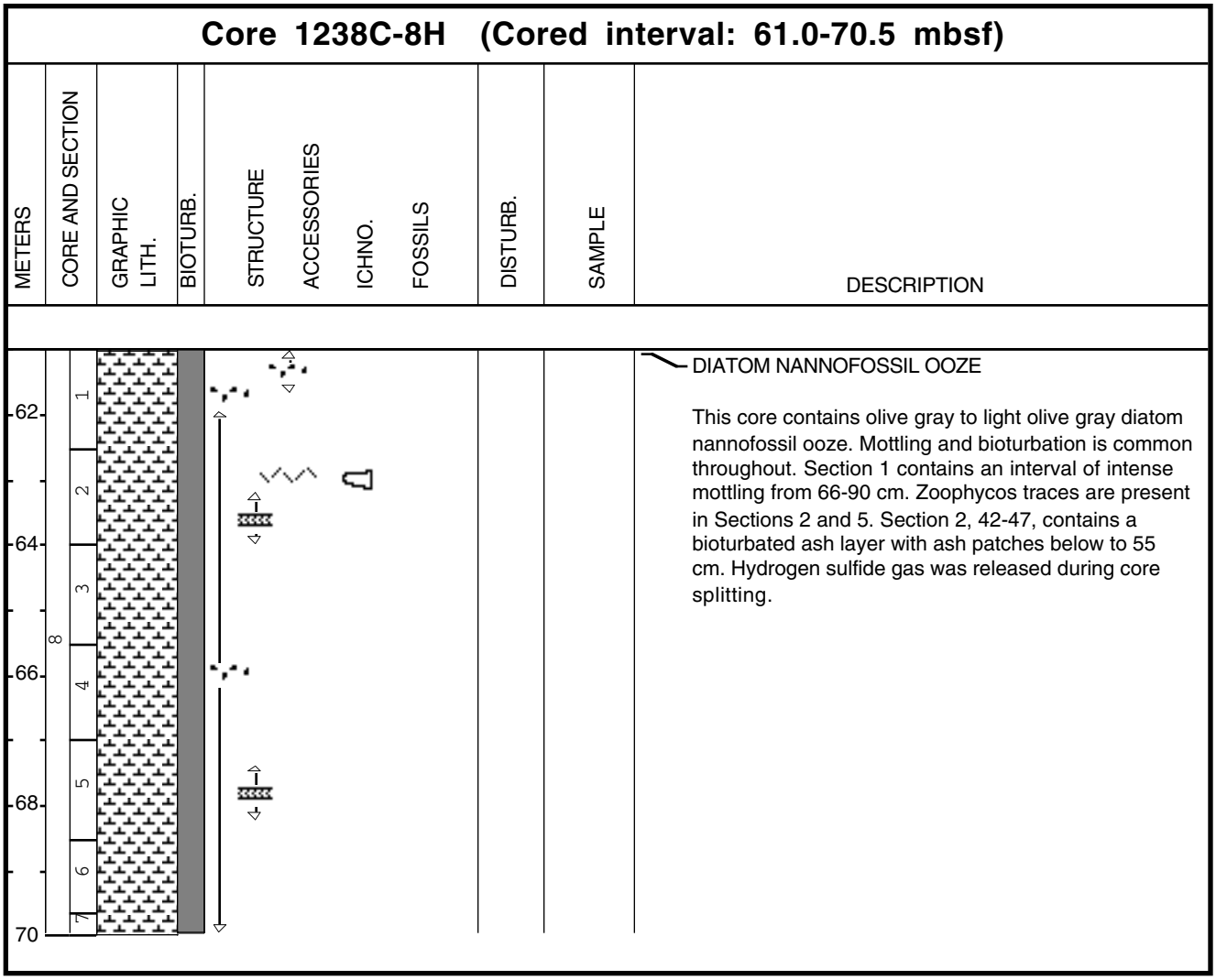
FORAMINIFER CLAY-BEARING NANNOFOSSIL OOZE and DIATOM NANNOFOSSIL OOZE

This core contains olive gray to light olive gray foraminifer clay-bearing nannofossil ooze and diatom nannofossil ooze with mottles and burrows throughout, indicative of moderate bioturbation. Zoophycos traces occur in Sections 3 and 6. Color changes in this core are subtle and gradational. Hydrogen sulfide gas was released during core splitting.

Core Photo

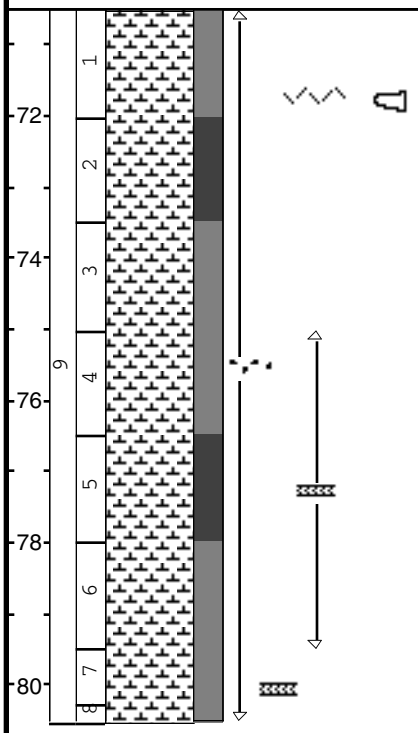

Core 1238C-7H (Cored interval: 51.5-61.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
52
54
56
58
60
7
1
2
3
4
5
6
7
8
DIATOM NANNOFOSSIL OOZE and
NANNOFOSSIL-DIATOM OOZE
This core contains firm and homogeneous olive gray to light olive gray diatom nannofossil ooze and nannofossil-diatom ooze with subtle and gradational color changes. The core is moderatly bioturbated with abundant light and gray mottles and burrows throughout. In Section 1, there is a heavily bioturbated ash layer from 74-110 cm. Hydrogen sulfide gas was released during core splitting.

Core Photo


Core 1238C-8H (Cored interval: 61.0-70.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
62
64
66
68
70
8
1
2
3
4
5
6
7
DIATOM NANNOFOSSIL OOZE
This core contains olive gray to light olive gray diatom nannofossil ooze. Mottling and bioturbation is common throughout. Section 1 contains an interval of intense mottling from 66-90 cm. Zoophycos traces are present in Sections 2 and 5. Section 2, 42-47, contains a bioturbated ash layer with ash patches below to 55 cm. Hydrogen sulfide gas was released during core splitting.

Core Photo

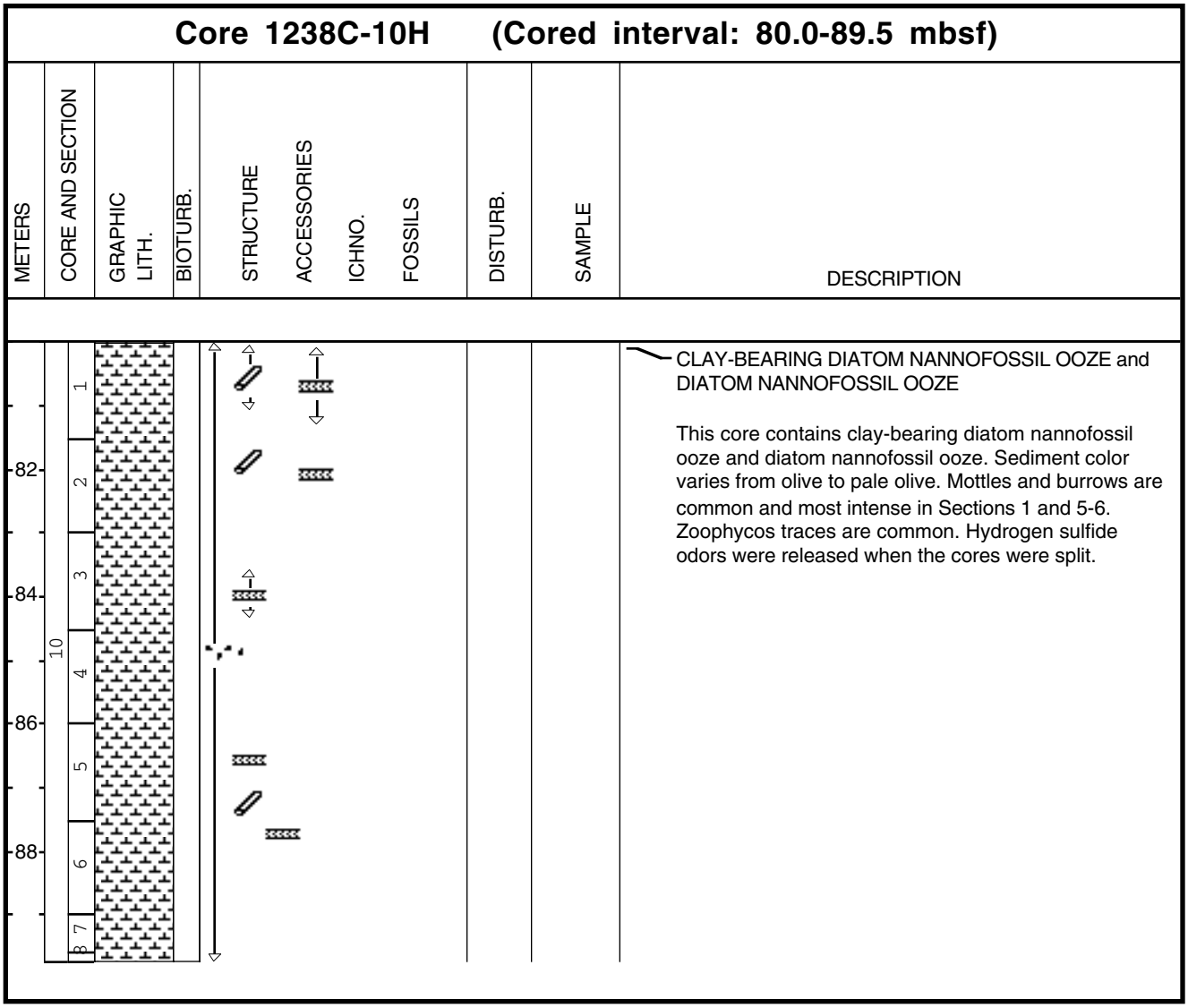
Core 1238C-9H (Cored interval: 70.5-80.0 mbsf)



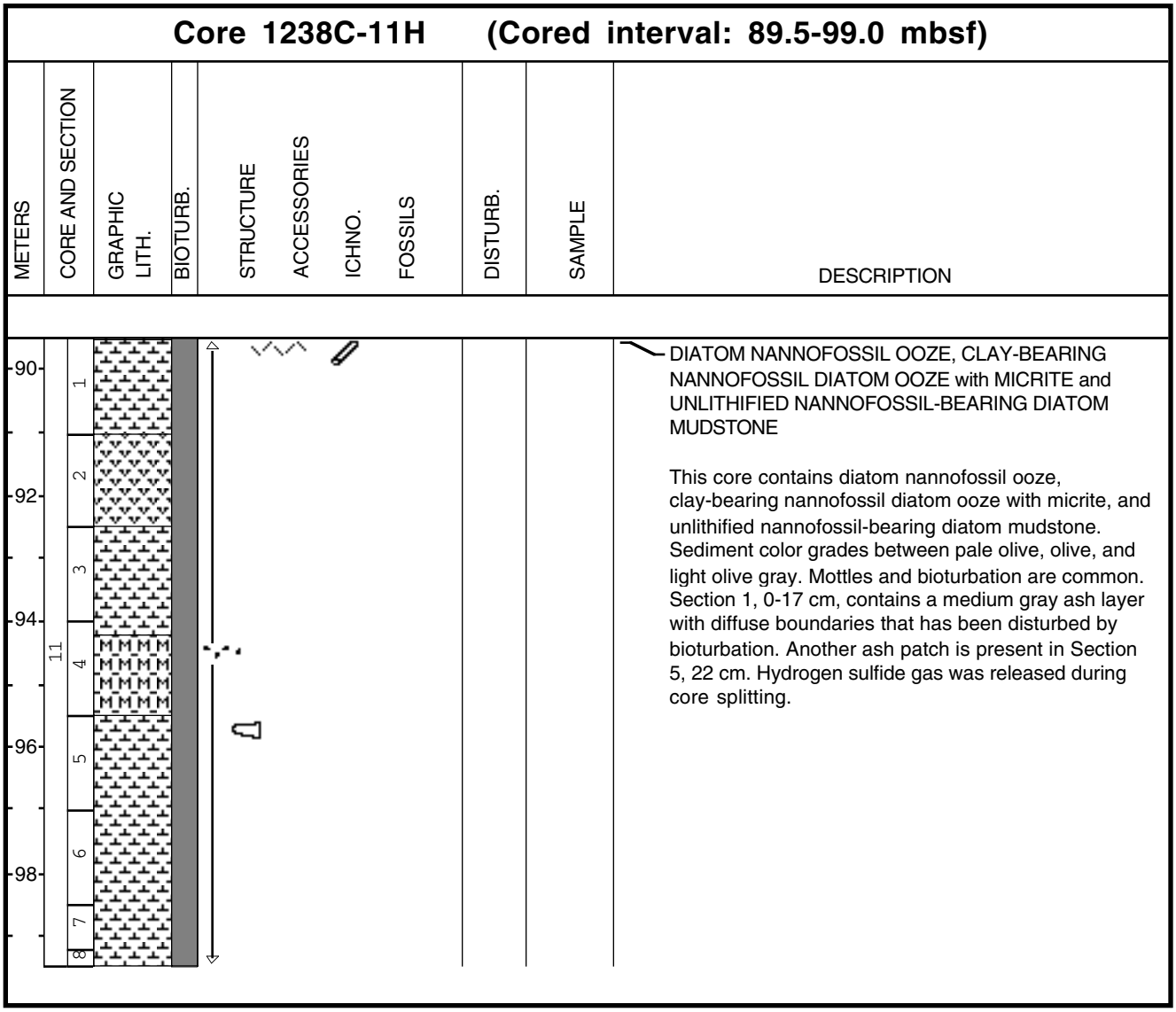
DIATOM NANNOFOSSIL OOZE and CLAY
FORAMINIFER-BEARING DIATOM NANNOFOSSIL OOZE

This core contains diatom nannofossil ooze and clay foraminifer-bearing diatom nannofossil ooze. Sediment color changes gradationally from pale olive to olive. Bioturbation and mottling is pervasive, and particularly intense in Sections 2 and 5. Below Section 2, 110 cm, the sediment is more homogeneous and a darker olive in color. Zoophycos burrows are most abundant in Sections 4-7. Urchin spines are common. Section 1, 115-120, contains a bioturbated medium gray ash layer with ash patches below. The core gave off a hydrogen sulfide odor when split.

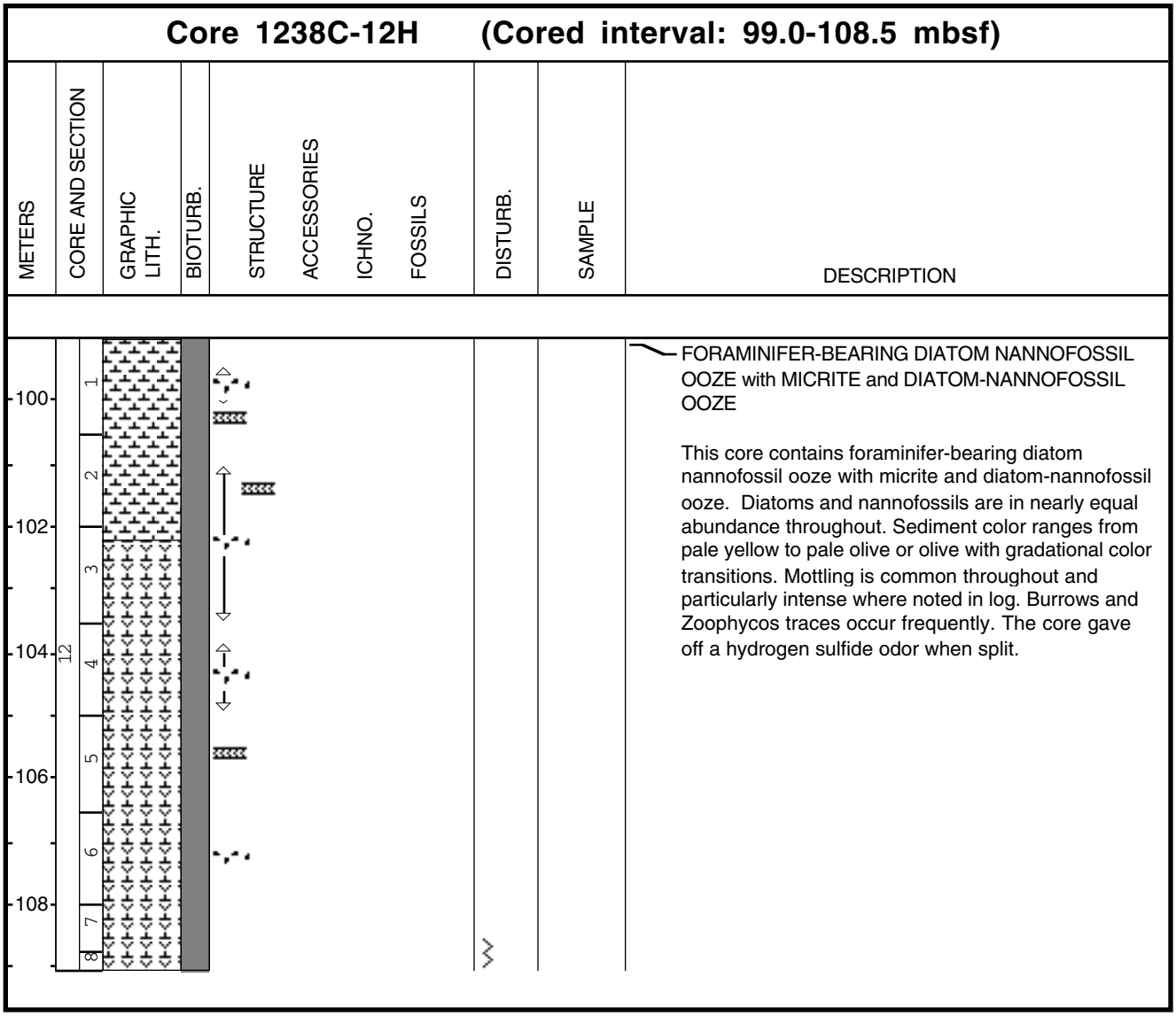
Core Photo


Core 1238C-10H (Cored interval: 80.0-89.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
82
84
86
88
10
1
2
3
4
5
6
7
CLAY-BEARING DIATOM NANNOFOSSIL OOZE and DIATOM NANNOFOSSIL OOZE
This core contains clay-bearing diatom nannofossil ooze and diatom nannofossil ooze. Sediment color varies from olive to pale olive. Mottles and burrows are common and most intense in Sections 1 and 5-6. Zoophycos traces are common. Hydrogen sulfide odors were released when the cores were split.

Core Photo

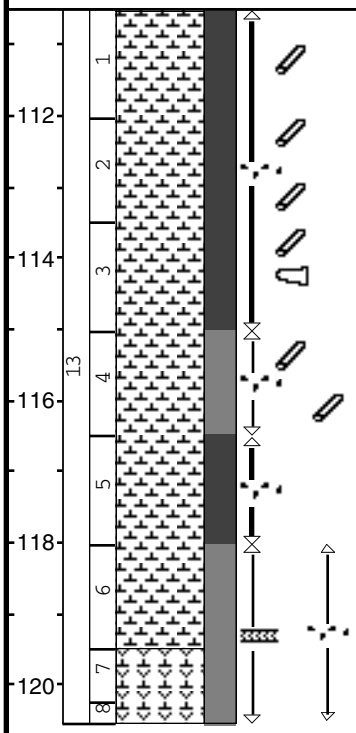

Core 1238C-11H (Cored interval: 89.5-99.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
90
92
94
96
98
11
1
2
3
4
5
6
7
8
DIATOM NANNOFOSSIL OOZE, CLAY-BEARING NANNOFOSSIL DIATOM OOZE with MICRITE and UNLITHIFIED NANNOFOSSIL-BEARING DIATOM MUDSTONE
This core contains diatom nannofossil ooze, clay-bearing nannofossil diatom ooze with micrite, and unlithified nannofossil-bearing diatom mudstone. Sediment color grades between pale olive, olive, and light olive gray. Mottles and bioturbation are common. Section 1, 0-17 cm, contains a medium gray ash layer with diffuse boundaries that has been disturbed by bioturbation. Another ash patch is present in Section 5, 22 cm. Hydrogen sulfide gas was released during core splitting.

Core Photo


Core 1238C-12H (Cored interval: 99.0-108.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
100
102
104
106
108
12
1
2
3
4
5
6
7
8
FORAMINIFER-BEARING DIATOM NANNOFOSSIL OOZE with MICRITE and DIATOM-NANNOFOSSIL OOZE
This core contains foraminifer-bearing diatom nannofossil ooze with micrite and diatom-nannofossil ooze. Diatoms and nannofossils are in nearly equal abundance throughout. Sediment color ranges from pale yellow to pale olive or olive with gradational color transitions. Mottling is common throughout and particularly intense where noted in log. Burrows and Zoophycos traces occur frequently. The core gave off a hydrogen sulfide odor when split.

Core Photo

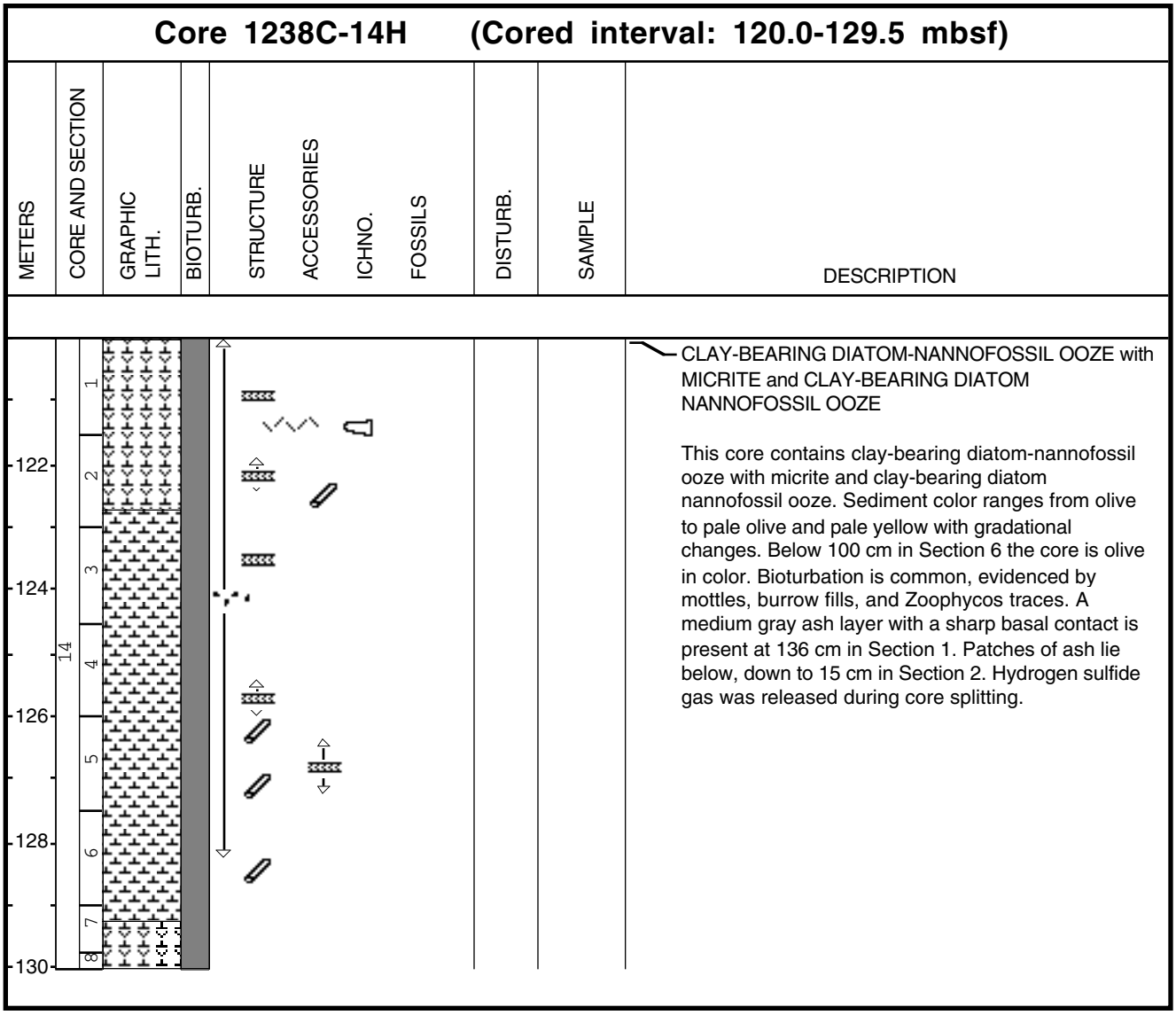
Core 1238C-13H (Cored interval: 110.5-120.0 mbsf)



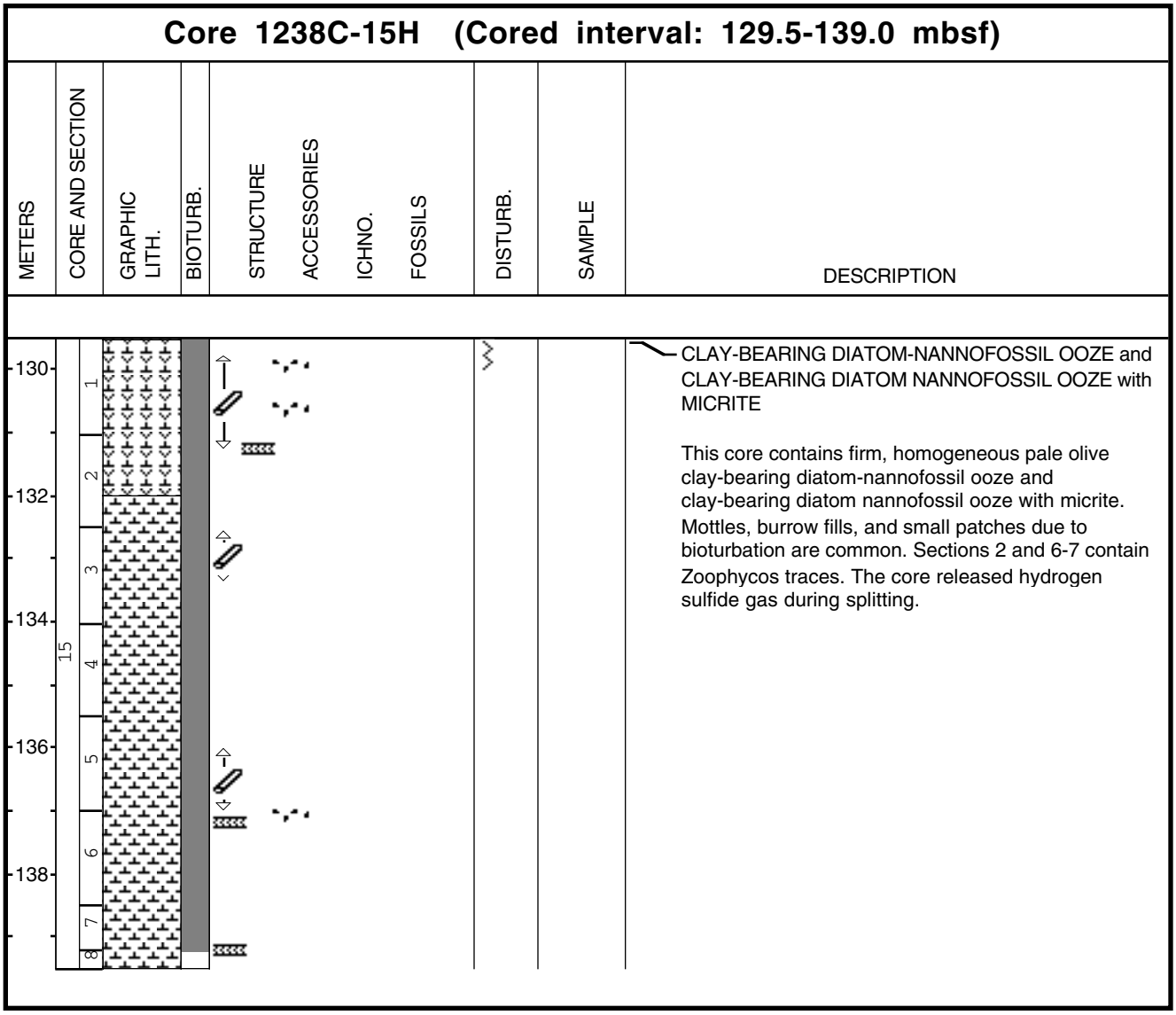
DIATOM NANNOFOSSIL OOZE and CLAY-BEARING DIATOM-NANNOFOSSIL OOZE with MICRITE

This core contains diatom nannofossil ooze and clay-bearing diatom-nannofossil ooze with micrite. Sediment color grades between olive, pale olive, and light yellow, with light yellow in Sections 5-CC. Bioturbation and mottling is common. Mottling is most intense in Sections 1-3 and 5. Discrete burrows are common. One large burrow in Section 4 is infilled with coarser material and abundant urchin spines. Zoophycos burrows occur in Sections 6- CC. Small (<1 cm) specks of ash are present in Section 3. The core gave off a hyrdrogen sulfide odor when split.

Core Photo

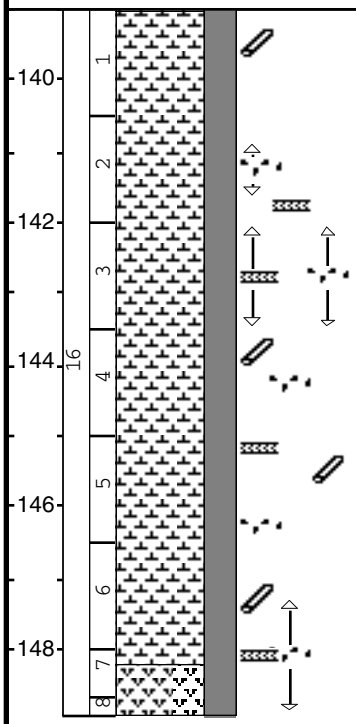

Core 1238C-14H (Cored interval: 120.0-129.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
122
124
126
128
130
14
1
2
3
4
5
6
7
8
CLAY-BEARING DIATOM-NANNOFOSSIL OOZE with MICRITE and CLAY-BEARING DIATOM NANNOFOSSIL OOZE
This core contains clay-bearing diatom-nannofossil ooze with micrite and clay-bearing diatom nannofossil ooze. Sediment color ranges from olive to pale olive and pale yellow with gradational changes. Below 100 cm in Section 6 the core is olive in color. Bioturbation is common, evidenced by mottles, burrow fills, and Zoophycos traces. A medium gray ash layer with a sharp basal contact is present at 136 cm in Section 1. Patches of ash lie below, down to 15 cm in Section 2. Hydrogen sulfide gas was released during core splitting.

Core Photo


Core 1238C-15H (Cored interval: 129.5-139.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
130
132
134
136
138
15
1
2
3
4
5
6
7
8
CLAY-BEARING DIATOM-NANNOFOSSIL OOZE and CLAY-BEARING DIATOM NANNOFOSSIL OOZE with MICRITE
This core contains firm, homogeneous pale olive clay-bearing diatom-nannofossil ooze and clay-bearing diatom nannofossil ooze with micrite. Mottles, burrow fills, and small patches due to bioturbation are common. Sections 2 and 6-7 contain Zoophycos traces. The core released hydrogen sulfide gas during splitting.

Core Photo

Core 1238C-16H (Cored interval: 139.0-148.5 mbsf)

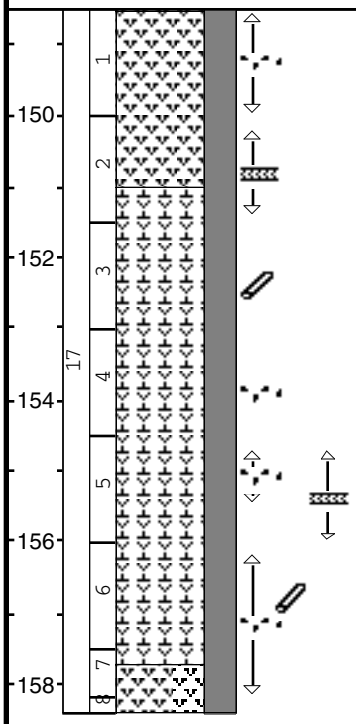


DIATOM-BEARING NANNOFOSSIL OOZE with MICRITE and CLAY-BEARING NANNOFOSSIL DIATOM OOZE with MICRITE

This core contains diatom-bearing nannofossil ooze with micrite and clay-bearing nannofossil diatom ooze with micrite. Sediment color grades from olive to pale olive. Mottling occurs throughout, and burrows and Zoophycos traces are abundant in Sections 2-6. Hydrogen sulfide gas was released during core splitting.

Core Photo

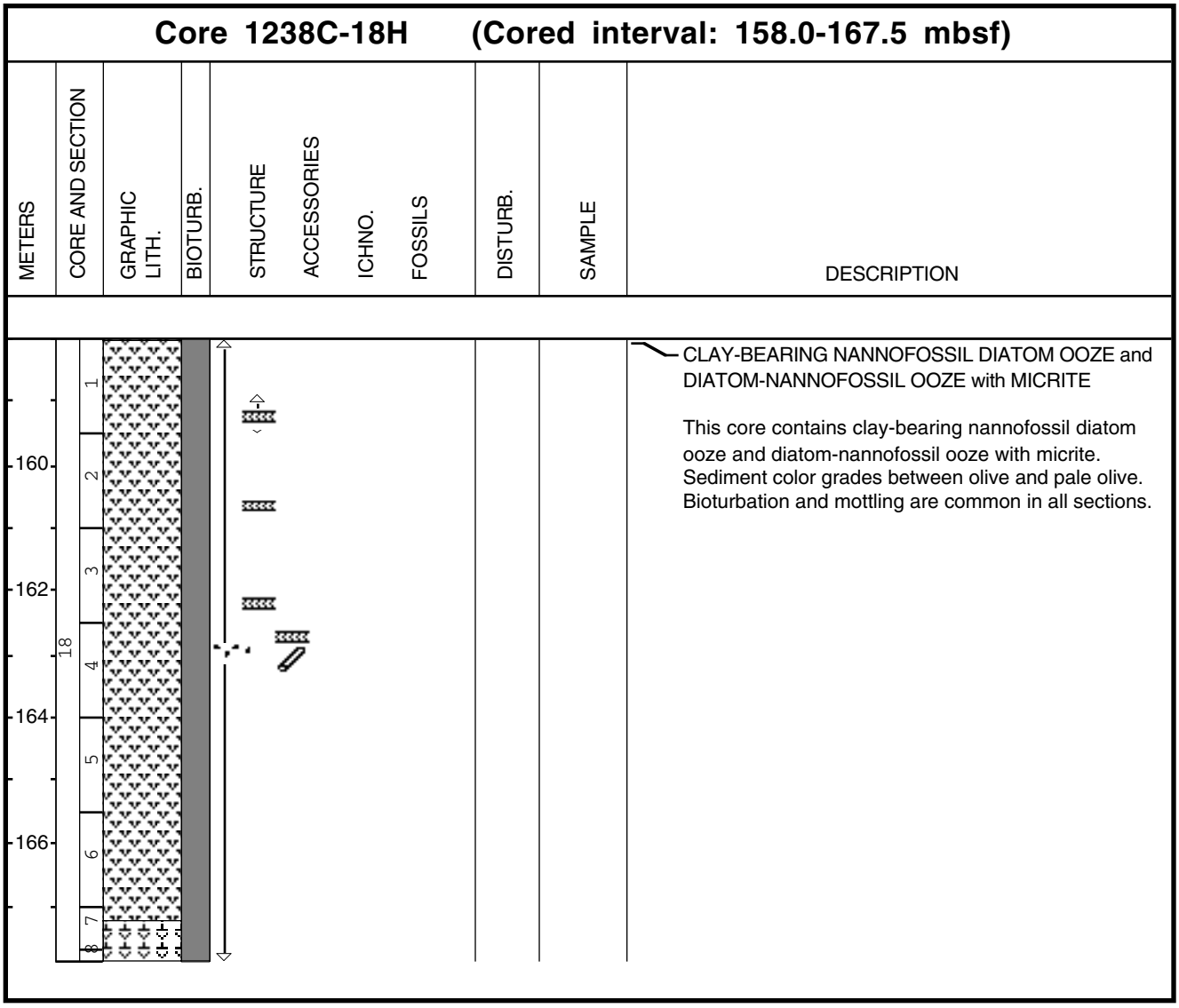
Core 1238C-17H (Cored interval: 148.5-158.0 mbsf)



CLAY-BEARING NANNOFOSSIL DIATOM OOZE with MICRITE and CLAY-BEARING NANNOFOSSIL-DIATOM OOZE with MICRITE

This core contains clay-bearing nannofossil diatom ooze with micrite and clay-bearing diatom-nannofossil ooze with micrite. Sediment color ranges from pale olive to olive with gradational transitions. The core is moderately bioturbated with common mottles in Sections 1 and 6. Zoophycos burrows are present in Sections 2 and 6. Hydrogen sulfide gas was released during core splitting.

Core Photo


Core 1238C-18H (Cored interval: 158.0-167.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
160
162
164
166
18
1
2
3
4
5
6
7
CLAY-BEARING NANNOFOSSIL DIATOM OOZE and DIATOM-NANNOFOSSIL OOZE with MICRITE
This core contains clay-bearing nannofossil diatom ooze and diatom-nannofossil ooze with micrite. Sediment color grades between olive and pale olive. Bioturbation and mottling are common in all sections.

Sample					Texture				Mineral																											Biogenic										Rock			
Core	Type	Section	Top (cm)	Depth (mbsf)	Lithology	Sand (%)	Silt (%)	Clay (%)	Amphibole (8)	Clay Mineral (47)	Clinopyroxene (49)	Dolomite (62)	Epidote (67)	Feldspar (71)	Garnet (79)	Glauconite (82)	Heavy Minerals (89)	Hematite (90)	Inorganic Calcite (97)	Mica (118)	Opaques (140)	Orthopyroxene (143)	Oxides (146)	Palagonite (148)	Phillipsite (155)	Pyrite (169)	Pyroxene (171)	Quartz (172)	Rutile (178)	Titanite (210)	Volcanic Glass (81)	Zircon (223)	Diatoms (58)	Discoaster (61)	Foraminifers (78)	Nannofossils (132)	Pollen (162)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	Unknown (258)	Bioclasts (21)	Micrite (119)	Volcanic Fragments (220)	Comments
Hole A																																															
1	H	1	75	0.75	D					20				R					R		R					R		R			3		14		27	34		1	1	R				Clay-bearing diatom foram nannofossil ooze
1	H	1	110	1.1	D					17				R					R		R					R		R					17		17	43		3	2	R				Clay-bearing diatom-foram nannofossil ooze
1	H	1	125	1.25	D					26				R																			12		5	53		2	2	R				Clayey diatom nannofossil ooze
1	H	3	75	3.75	D					12				R											R					R		18		12	53		R	5	R				Clay-bearing foram diatom nannofossil ooze
1	H	4	20	4.7	D					18										R					2					R		5		9	54		R	9	2				Clay-bearing nannofossil ooze
2	H	3	75	8.77	D	0	5	95		8				R					5													7		12	55		1	10	R				Foram siliceous-bearing nannofossil ooze
2	H	6	4	12.58	M	35	60	5	R	5	R			10						R	2	R			R					80														Ash
3	H	1	75	15.25	D				R	25				R					R							R							8		8	50		5	3	R				Clayey nannofossil ooze
3	H	3	75	18.28	D				R	15				R					R							R					R		10		4	60		7	1	1				Clay-bearing diatom nannofossil ooze
4	H	1	75	24.75	D					5				R					5		R	R										10		7	60		R	10	R				Siliceous-bearing nannofossil ooze
4	H	3	26	27.28	M					7															5							7		20	55		R	5	R				Foram nannofossil ooze
4	H	3	75		D	0	10	90	R	7									1			R			R							12		10	60		R	10	R				Foram siliceous-bearing nannofossil ooze
4	H	4	98	28.73	M	0	6	94		21			R							R			R		1					43		7		4	21								Diatom nannofossil clayey ash
5	H	1	75	34.25	D	0	0	100		35			R	R						R		R			R			R		4		18		5	35		R		R			4	Clayey diatom nannofossil ooze
5	H	3	75	37.27	D	0	0	100	R	29				R						R										R		19	R	4	48		R	R	R				Clayey diatom nannofossil ooze
6	H	1	75	43.75	D	0	60	40		5				5		R				R		R			5		3			3		3		38	38				R				Clayey silt-bearing foram-nannofossil ooze
6	H	3	75	46.77	D	0	R	100		11				R						R					2							7		3	74		1		1				Clay-bearing nannofossil ooze
6	H	3	124	47.26	M	0	0	100		4			R	R		R				R					R		R					36		R	60		R		R	R			Diatom nannofossil ooze
7	H	1	75	53.25	D	0	0	100		5			R			R				R					R							27		9	54		2		2				Diatom nannofossil ooze
7	H	2	94	54.95	D	0	0	100		3			R	R						R					R							55		R	33		R		R	8			Nannofossil diatom ooze
7	H	3	75	56.26	D	0	0	100		3				R		R									R							46		5	46		R		R	1			Nannofossil-diatom ooze
8	H	1	75	62.75	D	0	0	100		3			R							R					R							42			53		R		1				Diatom nannofossil ooze
8	H	2	13	63.64	M				3					15						R					R					76		6											Ash
8	H	3	75	65.77	D	0	0	100		6									4						2							42		R	42		R		R	4			Nannofossil-diatom ooze
9	H	1	75	72.25	D				R	9				R																		27		3	52			5	5				Diatom nannofossil ooze
9	H	2	83	73.84	M				R	8				2																23		23		6	34		1		2				Vitric diatom-bearing nannofossil ooze
9	H	3	75	75.27	D				R	13				R											1							26		19	39		R		1				Clay foram-bearing diatom nannofossil ooze
9	H	4	100	77.04	D					21				R									R							R		21		3	45		6		3				Clay diatom-bearing nannofossil ooze
10	H	1	75	81.75	D					13				R											2							28		6	46		4		2				Clay-bearing diatom nannofossil ooze
10	H	3	75	84.77	D					10															1							35		3	42		1		1		7		Clay-bearing diatom nannofossil ooze
10	H	6	75	89.29	M					5				R					R						2							30		5	55		R	R	R		3		Diatom nannofossil ooze
11	H	1	72	91.22	M									3						R					5					88		3		R	2								Ash
11	H	1	75	91.25	D					10				R																R		45		5	25		R				15		Clay-bearing nanno diatom ooze with micrite
11	H	2	81	92.81	M					20				1											2					33		24		5	10			R	R		5		Nannofossil diatom-bearing clayey ash
11	H	3	75	94.26	D				R	5				R																R		36		5	10		R		R		40		Nannofossil-bearing diatom ooze with micrite
12	H	1	87	100.87	M					8										R					1							27		10	35		1	R	R		18		Foram-bearing diatom nanno ooze with micrite
12	H	3	75	103.77	D					5				R											R					R		40		5	40		R		2		8		Diatom-nannofossil ooze
13	H	1	75	110.25	D					7															R		R					30		7	45		4	R	1		4		Diatom nannofossil ooze
13	H	3	75	113.27	D					4				R											R							27		4	55		1		4		4		Diatom nannofossil ooze
14	H	1	75	119.75	D					14										R					1							29		7	29		4	R	1		14		Clay-bearing diatom-nanno ooze with micrite
14	H	2	147	121.98	M									16						6										78													Ash
14	H	3	75	122.77	D					13										R					R							33		4	39		6		R		4		Clay-bearing diatom nannofossil ooze
15	H	1	75	129.25	D					14															R							36		4	36		3		R		7		Clay-bearing diatom-nannofossil ooze
15	H	3	75	132.26	D					10															R							28		7	42		4		R		10		Clay-bearing diatom nanno ooze with micrite
16	H	1	75	138.75	D					11										R					1							28		7	43		4	R	R		4		Clay-bearing diatom nannofossil ooze

Sample					Texture				Mineral																								Biogenic									Rock			
Core	Type	Section	Top (cm)	Depth (mbsf)	Lithology	Sand (%)	Silt (%)	Clay (%)	Amphibole (8)	Clay Mineral (47)	Clinopyroxene (49)	Dolomite (62)	Epidote (67)	Feldspar (71)	Garnet (79)	Glauconite (82)	Heavy Minerals (89)	Hematite (90)	Inorganic Calcite (97)	Mica (118)	Opaques (140)	Orthopyroxene (143)	Oxides (146)	Palagonite (148)	Phillipsite (155)	Pyrite (169)	Pyroxene (171)	Quartz (172)	Rutile (178)	Titanite (210)	Volcanic Glass (81)	Zircon (223)	Diatoms (58)	Discoaster (61)	Foraminifers (78)	Nannofossils (132)	Pollen (162)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	Unknown (258)	Bioclasts (21)	Micrite (119)	Volcanic Fragments (220)	Comments
Hole A (continued)																																													
16	H	3	75	141.78	D					R																R					R		23		5	58		R		2			12		Diatom-bearing nannofossil ooze with micrite
17	H	1	75	148.25	D					13										R						1							32		6	25		4		R			19		Clay-bearing nanno diatom ooze with micrite
17	H	3	75	151.26	D	0	0	100		17			R	R						R						R							33	R	R	33		R		R			17		Clay-bearing nanno-diatom ooze with micrite
18	H	1	75	157.75	D	0	0	100		18				R										R		R		R			R		37	R	R	31		R		1			12		Clay-bearing nanno diatom ooze with micrite
18	H	3	75	160.76	D	0	0	100		9				R										R		R					R		36	R	R	27		R		2		R	27		Nannofossil diatom ooze with micrite
19	H	1	75	167.25	D	0	0	100		9				R												R					R		39	R	R	39		R		2		2	11		Nannofossil-diatom ooze with micrite
19	H	3	75	170.27	D					8				R																	R		39	R	R	39		R		R		R	13		Diatom-nannofossil ooze with micrite
19	H	3	139	170.91	M					21			R	R						R								R			R		52	R	R	21		R		R		R	6		Clay nannofossil-bearing diatom ooze
20	H	1	75	176.75	D	0	0	100		5				R																			18	R	R	64		R		R		R	13		Diatom-bearing nannofossil ooze with micrite
20	H	3	75	179.77	D					5				R												R							35		R	50		R		R		R	10		Diatom nannofossil ooze with micrite
21	H	1	75	186.25	D					8				R																			5		R	63		R		R		8	16		Nannofossil ooze with micrite
21	H	3	75	189.28	D					11				R																			11	R	R	62		R		R		R	16		Clay diatom-bearing nanno ooze with micrite
22	H	1	75	195.75	D					7																					R		41		R	41		R		R		R	10		Diatom-nannofossil ooze with micrite
22	H	3	75	198.77	D	0	0	100		36																R							12	R	1	48		R					4		Clayey diatom-bearing nannofossil ooze
23	X	1	70	205.2	D					5						R										R					R		47		R	35		R		1		R	12		Nannofossil diatom ooze with micrite
23	X	3	51	208.02	D	0	0	100		9																R							36	R	R	36		R		1			18		Diatom-nannofossil ooze with micrite
24	X	1	75	212.15	D	0	17	83		9	2															R					1		5	R	5	75		R	R	2			3		Clay-bearing nannofossil ooze
24	X	3	75	215.16	D	0	0	100		8	R									R						1					R		7		5	74		1					3		Nannofossil ooze
25	X	1	75	221.75	D					15						R										1					R		31		5	41		1		1			5		Clay-bearing diatom nannofossil ooze
25	X	3	86	224.72	D					10		R		R																	3		35		7	42		R		1			3		Clay-bearing diatom nannofossil ooze
26	X	2	45	232.26	D					11										R						2							24		5	48		3		2			5		Clay diatom-bearing nannofossil ooze
26	X	5	75	237.07	D					14										R						R							36		4	29		4		1			10		Clay-bearing nanno diatom ooze with micrite
27	X	1	72	240.72	D					5	R															2					R		35		5	45		1		1			5		Diatom nannofossil ooze
27	X	3	61	243.62	D					17																R							25		5	42		3		3			5		Clay-bearing diatom nannofossil ooze
28	X	1	84	250.44	D					16											R					R					R		32		5	40		2		2			5		Clay-bearing diatom nannofossil ooze
28	X	3	74	253.36	D					14		R														R							35		3	35		1		3			10		Clay-bearing diatom-nanno ooze with micrite
28	X	3	123	253.85	M					11																R					16		22		3	43		1		1			2		Clayey vitric diatom-bearing nannofossil ooze
29	X	1	75	259.95	D					12																R					R		25		3	51		2		2			5		Clay-bearing diatom nannofossil ooze
29	X	4	45	264.17	M				R	R	R			12						5											61		2			17				R			2		Nannofossil-bearing ash
30	X	1	75	269.65	D					13				R												1							20		1	59		1		R			4		Clay diatom-bearing nannofossil ooze
30	X	3	75	272.67	D					11		R		R												1					R		15		7	62		1		1			3		Clay diatom-bearing nannofossil ooze
31	X	1	73	279.23	D					13																					R		28		6	47		R		R			6		Clay-bearing diatom nannofossil ooze
32	X	1	75	288.95	D					12		R														R							18		4	45		4		R			18		Clay diatom-bearing nanno ooze with micrite
32	X	3	75	291.97	D					10				R						R						R							13		R	67		R		R			10		Clay diatom-bearing nanno ooze with micrite
33	X	1	75	298.65	D					12				R												R					R		25		2	51		2		R			8		Clay-bearing diatom nannofossil ooze
33	X	3	75	301.67	D					10															R								10		2	71				R			6		Clay diatom-bearing nannofossil ooze
34	X	1	75	308.25	D					20				R								R				R					R		30		5	40		1		1			3		Clay-bearing diatom nannofossil ooze
34	X	3	75	311.27	D					9				R												R					R		20		4	61		1		R			4		Diatom-bearing nannofossil ooze
35	X	4	75	322.37	D					20			R	R																	R		9	R	R	67		1		R		R	3		Clay-bearing nannofossil ooze
36	X	3	75	330.47	D					5				R																	R		17	12	R	62		R		R		R	2		Diascoaster diatom-bearing nannofossil ooze
37	X	3	75	340.07	D					16			R	R																			32		R	43		R		2		R	5		Clay-bearing diatom nannofossil ooze
38	X	3	75	349.67	D					10										R	1												30		2	50		R	R	1			3		Clay-bearing diatom nannofossil ooze
38	X	4	100	351.43	M					10											1												35		5	45		R	R	1			3		Clay-bearing diatom nannofossil ooze
38	X	5	13	352.07	M					25										R											R		25		5	35		R		2			8		Clayey diatom nannofossil ooze
39	X	3	75	359.37	D					9										R	R										1		30		2	50		R	R	R			5		Diatom nannofossil ooze
40	X	1	77	365.97	D					17																					R		23	R	R	57		1		R			2		Clay diatom-bearing nannofossil ooze

Sample					Texture				Mineral																															Biogenic										Rock			
Core	Type	Section	Top (cm)	Depth (mbsf)	Lithology	Sand (%)	Silt (%)	Clay (%)	Amphibole (8)	Clay Mineral (47)	Clinopyroxene (49)	Dolomite (62)	Epidote (67)	Feldspar (71)	Garnet (79)	Glauconite (82)	Heavy Minerals (89)	Hematite (90)	Inorganic Calcite (97)	Mica (118)	Opaques (140)	Orthopyroxene (143)	Oxides (146)	Palagonite (148)	Phillipsite (155)	Pyrite (169)	Pyroxene (171)	Quartz (172)	Rutile (178)	Titanite (210)	Volcanic Glass (81)	Zircon (223)	Diatoms (58)	Discoaster (61)	Foraminifers (78)	Nannofossils (132)	Pollen (162)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	Unknown (258)	Bioclasts (21)	Micrite (119)	Volcanic Fragments (220)	Comments
Hole A (continued)																																																	
40	X	5	65	371.87	M					11				R						R						R						44		R	33		R		1			11		Clay-bearing nanno diatom ooze with micrite
40	X	6	75	373.47	D					5				R						R						R						24		R	49		2	R	3			16		Diatom-bearing nannofossil ooze with micrite
41	X	1	75	375.65	D					10	R			R																R		20		2	60				2			6		Clay diatom-bearing nannofossil ooze
41	X	2	145	377.85	M					7																2						7		R	60				R		R	24		Nannofossil ooze with micrite
41	X	6	75	383.17	M					7											R					4						37			30		6					15		Nannofossil diatom ooze with micrite
43	X	1	87	394.97	D					25										R						2								8	49							16		Clayey nannofossil ooze with micrite
43	X	3	6	396.67	M					9				R						R														26	52							13		Foram nannofossil with micrite
44	X	1	75	404.45	D					5			R																						81							13		Nannofossil ooze with micrite
44	X	3	75	407.47	D					5																								R	86							9		Nannofossil ooze
44	X	5	54	410.28	M					6										R						2									62							31		Nannofossil ooze with micrite
45	X	1	75	414.05	D					7																R								R	89							4		Nannofossil ooze
45	X	3	50	416.8	M					8																								R	79							13		Nannofossil ooze with micrite
Hole B																																																	
6	H	5	80	55.84	M	0	12	88		17				2						R		R				2		R			R	37		5	24		R	R	R			12		Clay nanno-bearing diatom ooze with micrite
7	H	1	108	59.58																																										Void
8	H	5	20	74.24	M					10				R						R						R					R	41		R	41		R		R			8		Clay-bearing diatom-nannofossil ooze
10	H	3	139	91.41	M					8				8														R			83				R								Volcanic ash
12	H	1	115	107.15	M					R										R						R					44	33			22		R		R				Vitric nannofossil-bearing diatom ooze
13	H	5	27	121.81	M									4														4			87				4								Volcanic ash
Hole C																																																
7	H	1	108	52.58	M	0	71	29	R	5	3			3						R		R				R		5		R	39		13			26					5		Diatom-bearing nannofossil clayey silty ash
8	H	2	44	62.94	M						R			2						R	4							5	R		89			R	R							Volcanic ash
8	H	5	22	67.25	M					5				R									R							5	17		2	62		R		R			7		Diatom-bearing nannofossil ooze
9	H	1	119	71.69	M									5		R				R	14	R		71		R		5	R		5				R								Volcanic ash
11	H	1	16	89.66	M				R	9			R	R						R		R		6				R			76	R		R	6		R		R			3		Volcanic ash
14	H	1	136	121.36	M						R		R	4						R											94				2								Volcanic ash