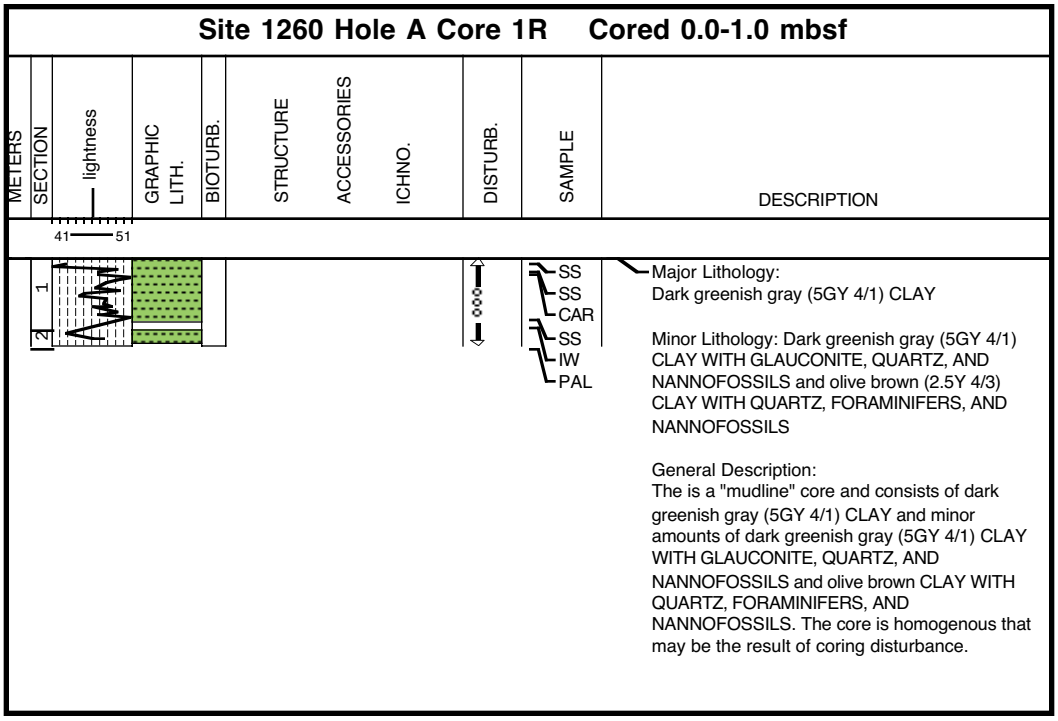
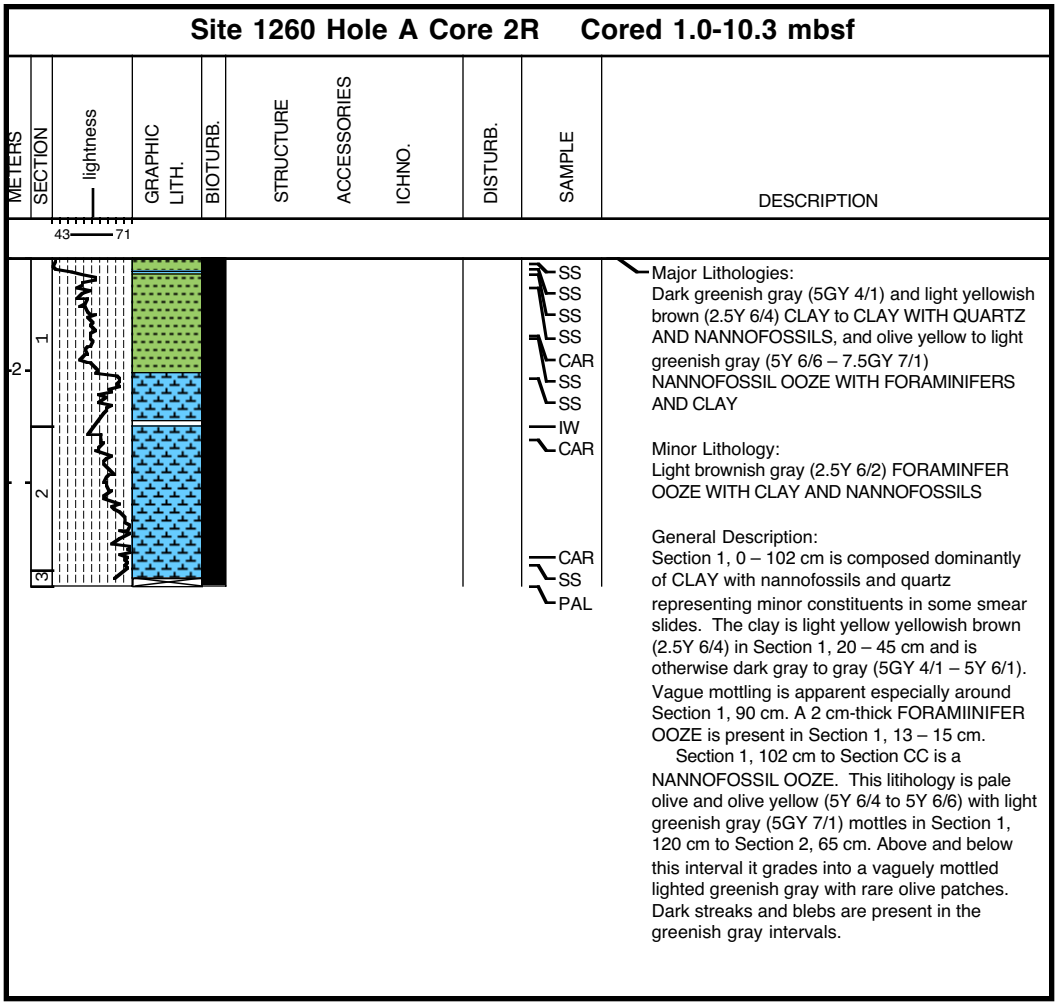
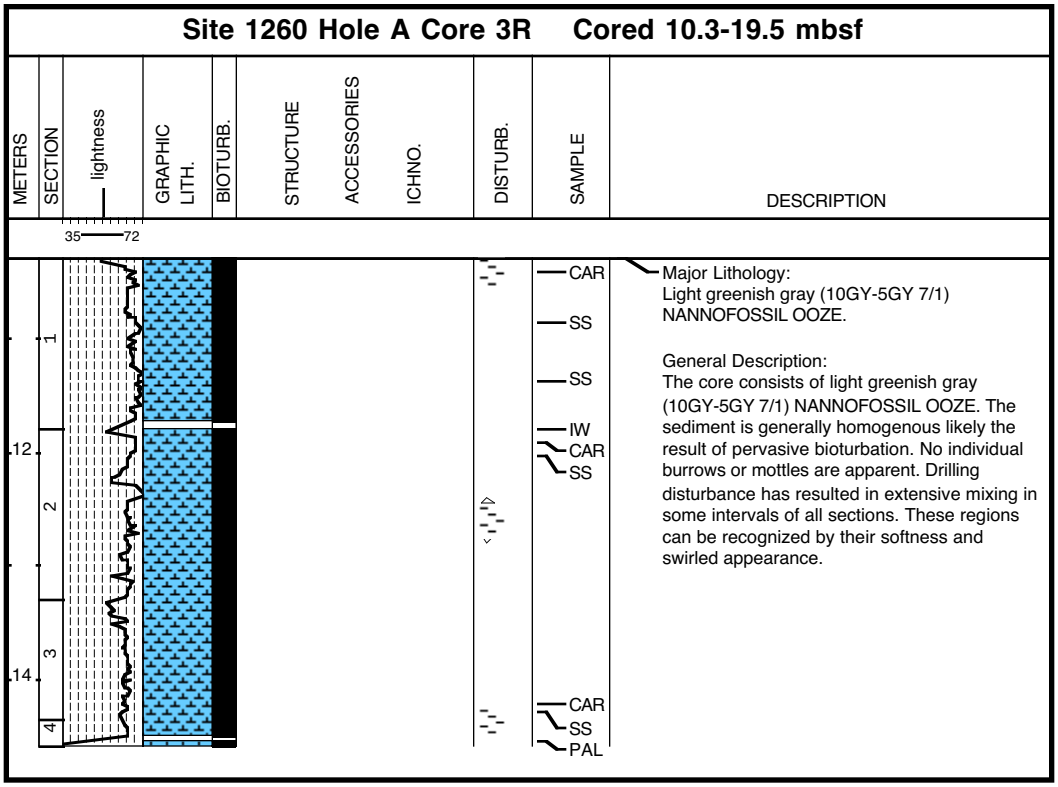
Core Photo


Site 1260 Hole A Core 1R Cored 0.0-1.0 mbsf
METERS
SECTION
lightness
41
51
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
1
2
SS
SS
CAR
SS
IW
PAL
Major Lithology:
Dark greenish gray (5GY 4/1) CLAY
Minor Lithology: Dark greenish gray (5GY 4/1) CLAY WITH GLAUCONITE, QUARTZ, AND NANNOFOSSILS and olive brown (2.5Y 4/3) CLAY WITH QUARTZ, FORAMINIFERS, AND NANNOFOSSILS
General Description:
The is a "mudline" core and consists of dark greenish gray (5GY 4/1) CLAY and minor amounts of dark greenish gray (5GY 4/1) CLAY WITH GLAUCONITE, QUARTZ, AND NANNOFOSSILS and olive brown CLAY WITH QUARTZ, FORAMINIFERS, AND NANNOFOSSILS. The core is homogenous that may be the result of coring disturbance.

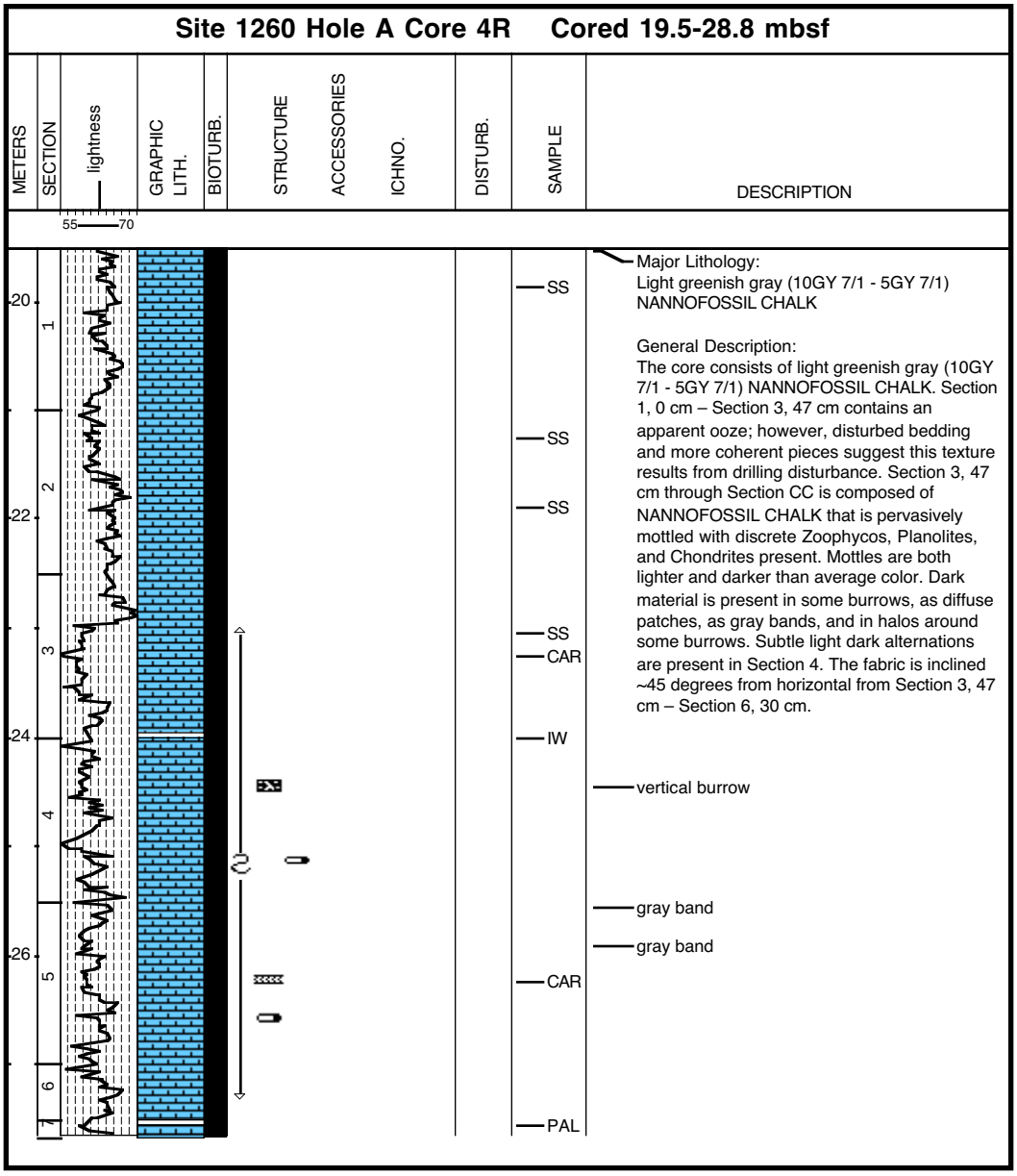
Core Photo


Site 1260 Hole A Core 2R Cored 1.0-10.3 mbsf
METERS
SECTION
lightness
43
71
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
2
1
2
3
SS
SS
SS
SS
CAR
SS
SS
IW
CAR
CAR
SS
PAL
Major Lithologies:
Dark greenish gray (5GY 4/1) and light yellowish brown (2.5Y 6/4) CLAY to CLAY WITH QUARTZ AND NANNOFOSSILS, and olive yellow to light greenish gray (5Y 6/6 – 7.5GY 7/1) NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY
Minor Lithology:
Light brownish gray (2.5Y 6/2) FORAMINFER OOZE WITH CLAY AND NANNOFOSSILS
General Description:
Section 1, 0 – 102 cm is composed dominantly of CLAY with nannofossils and quartz representing minor constituents in some smear slides. The clay is light yellow yellowish brown (2.5Y 6/4) in Section 1, 20 – 45 cm and is otherwise dark gray to gray (5GY 4/1 – 5Y 6/1). Vague mottling is apparent especially around Section 1, 90 cm. A 2 cm-thick FORAMIINIFER OOZE is present in Section 1, 13 – 15 cm.
Section 1, 102 cm to Section CC is a NANNOFOSSIL OOZE. This litihology is pale olive and olive yellow (5Y 6/4 to 5Y 6/6) with light greenish gray (5GY 7/1) mottles in Section 1, 120 cm to Section 2, 65 cm. Above and below this interval it grades into a vaguely mottled lighted greenish gray with rare olive patches. Dark streaks and blebs are present in the greenish gray intervals.

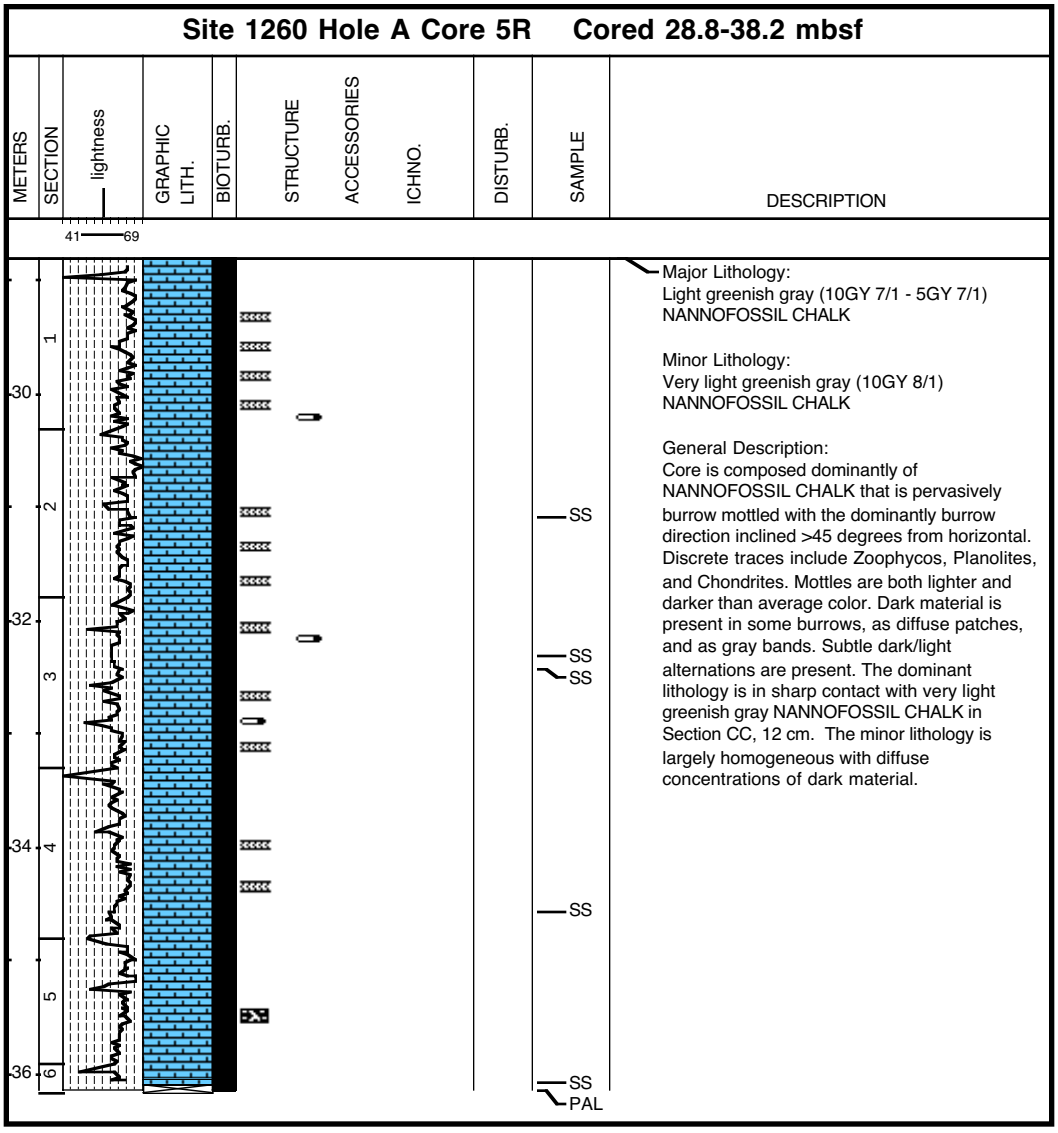
Core Photo


Site 1260 Hole A Core 3R Cored 10.3-19.5 mbsf
METERS
SECTION
lightness
35
72
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
12
14
1
2
3
4
CAR
SS
SS
IW
CAR
SS
CAR
SS
PAL
Major Lithology:
Light greenish gray (10GY-5GY 7/1) NANNOFOSSIL OOZE.
General Description:
The core consists of light greenish gray (10GY-5GY 7/1) NANNOFOSSIL OOZE. The sediment is generally homogenous likely the result of pervasive bioturbation. No individual burrows or mottles are apparent. Drilling disturbance has resulted in extensive mixing in some intervals of all sections. These regions can be recognized by their softness and swirled appearance.

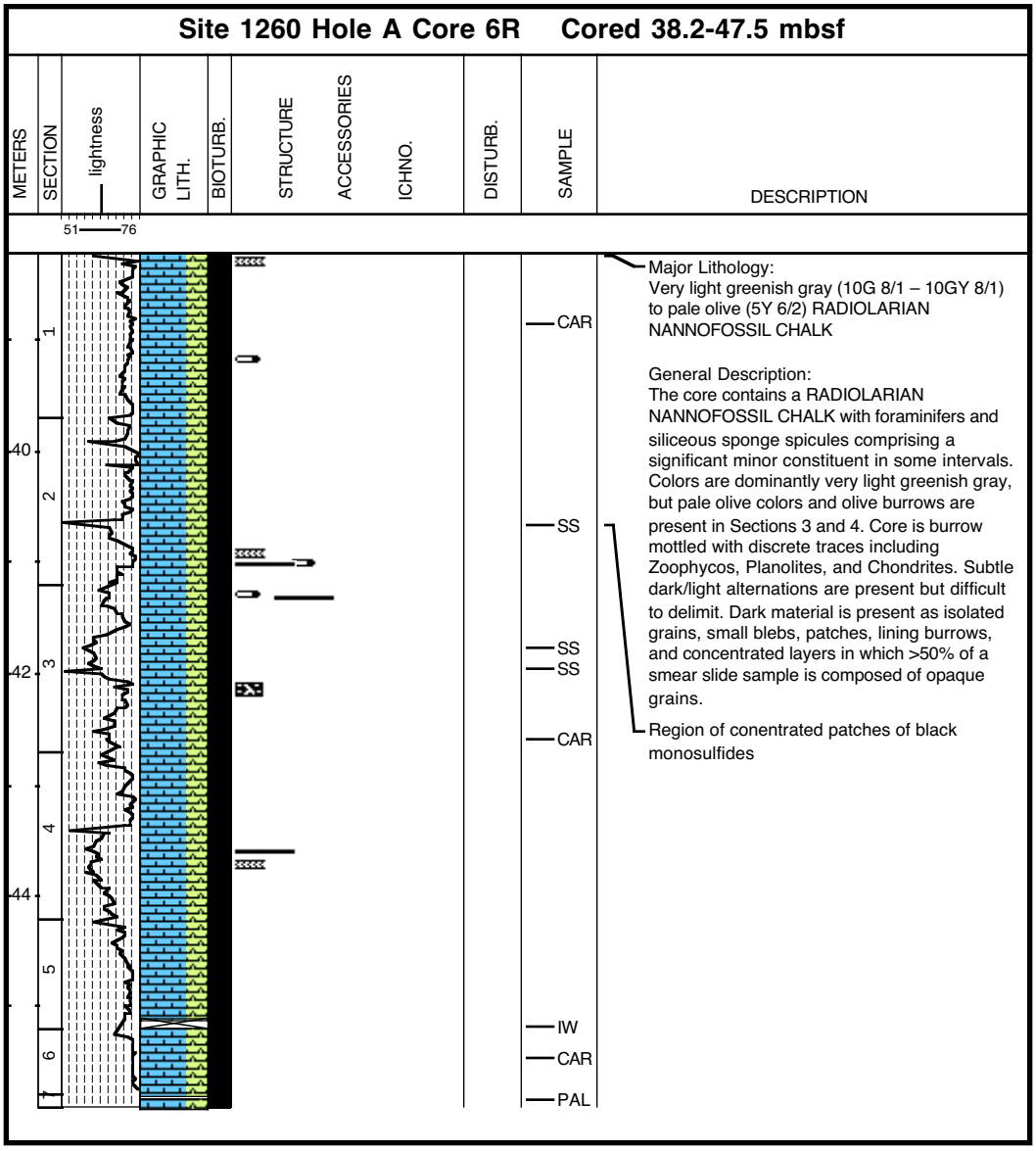
Core Photo


Site 1260 Hole A Core 4R Cored 19.5-28.8 mbsf
METERS
SECTION
lightness
55
70
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
20
22
24
26
1
2
3
4
5
6
7
SS
SS
SS
SS
CAR
IW
CAR
PAL
Major Lithology:
Light greenish gray (10GY 7/1 - 5GY 7/1) NANNOFOSSIL CHALK
General Description:
The core consists of light greenish gray (10GY 7/1 - 5GY 7/1) NANNOFOSSIL CHALK. Section 1, 0 cm – Section 3, 47 cm contains an apparent ooze; however, disturbed bedding and more coherent pieces suggest this texture results from drilling disturbance. Section 3, 47 cm through Section CC is composed of NANNOFOSSIL CHALK that is pervasively mottled with discrete Zoophycos, Planolites, and Chondrites present. Mottles are both lighter and darker than average color. Dark material is present in some burrows, as diffuse patches, as gray bands, and in halos around some burrows. Subtle light dark alternations are present in Section 4. The fabric is inclined ~45 degrees from horizontal from Section 3, 47 cm – Section 6, 30 cm.
vertical burrow
gray band
gray band

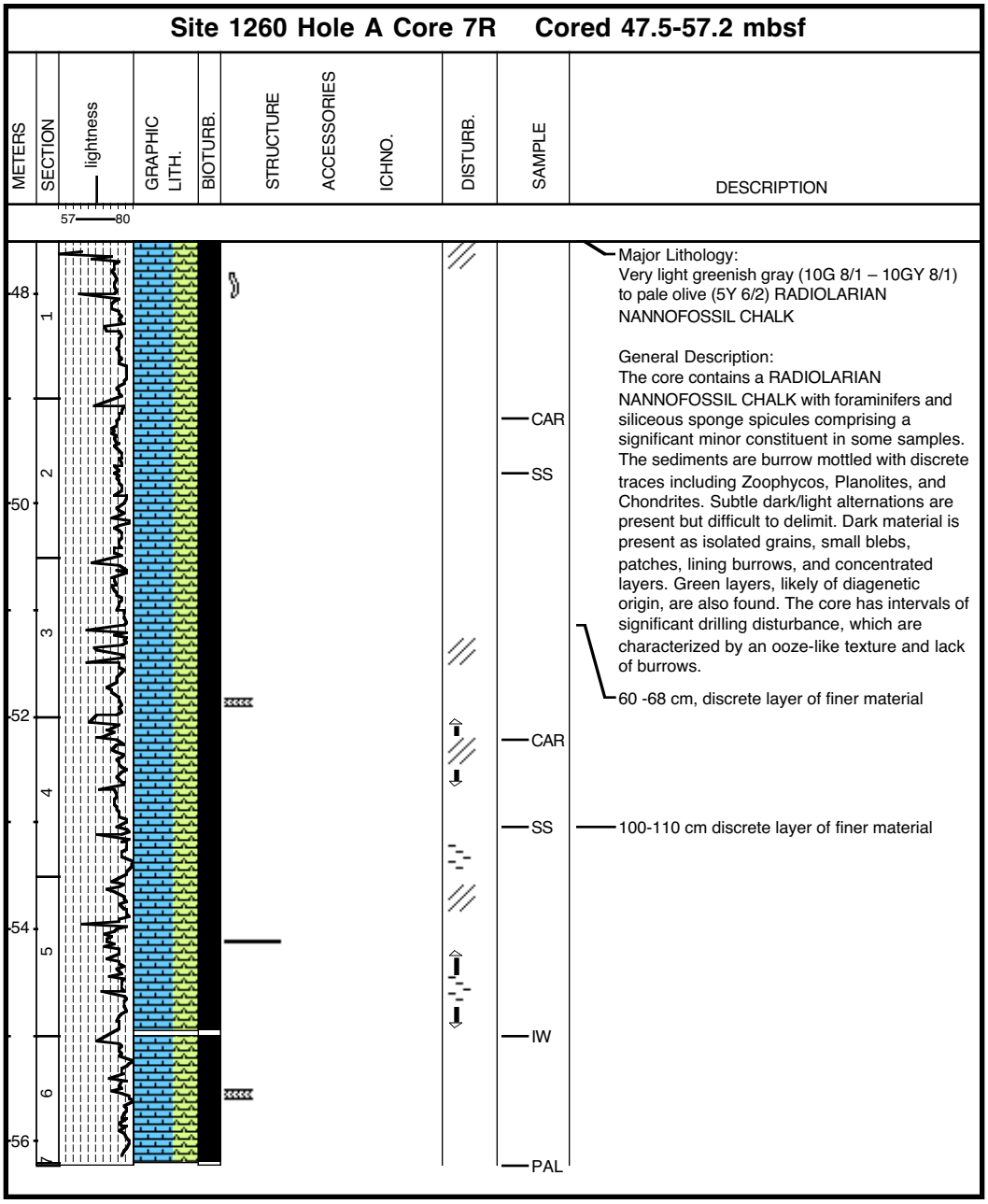
Core Photo


Site 1260 Hole A Core 5R Cored 28.8-38.2 mbsf
METERS
SECTION
lightness
41
69
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
30
32
34
36
1
2
3
4
5
6
SS
SS
SS
SS
SS
PAL
Major Lithology:
Light greenish gray (10GY 7/1 - 5GY 7/1)
NANNOFOSSIL CHALK
Minor Lithology:
Very light greenish gray (10GY 8/1)
NANNOFOSSIL CHALK
General Description:
Core is composed dominantly of NANNOFOSSIL CHALK that is pervasively burrow mottled with the dominantly burrow direction inclined >45 degrees from horizontal. Discrete traces include Zoophycos, Planolites, and Chondrites. Mottles are both lighter and darker than average color. Dark material is present in some burrows, as diffuse patches, and as gray bands. Subtle dark/light alternations are present. The dominant lithology is in sharp contact with very light greenish gray NANNOFOSSIL CHALK in Section CC, 12 cm. The minor lithology is largely homogeneous with diffuse concentrations of dark material.

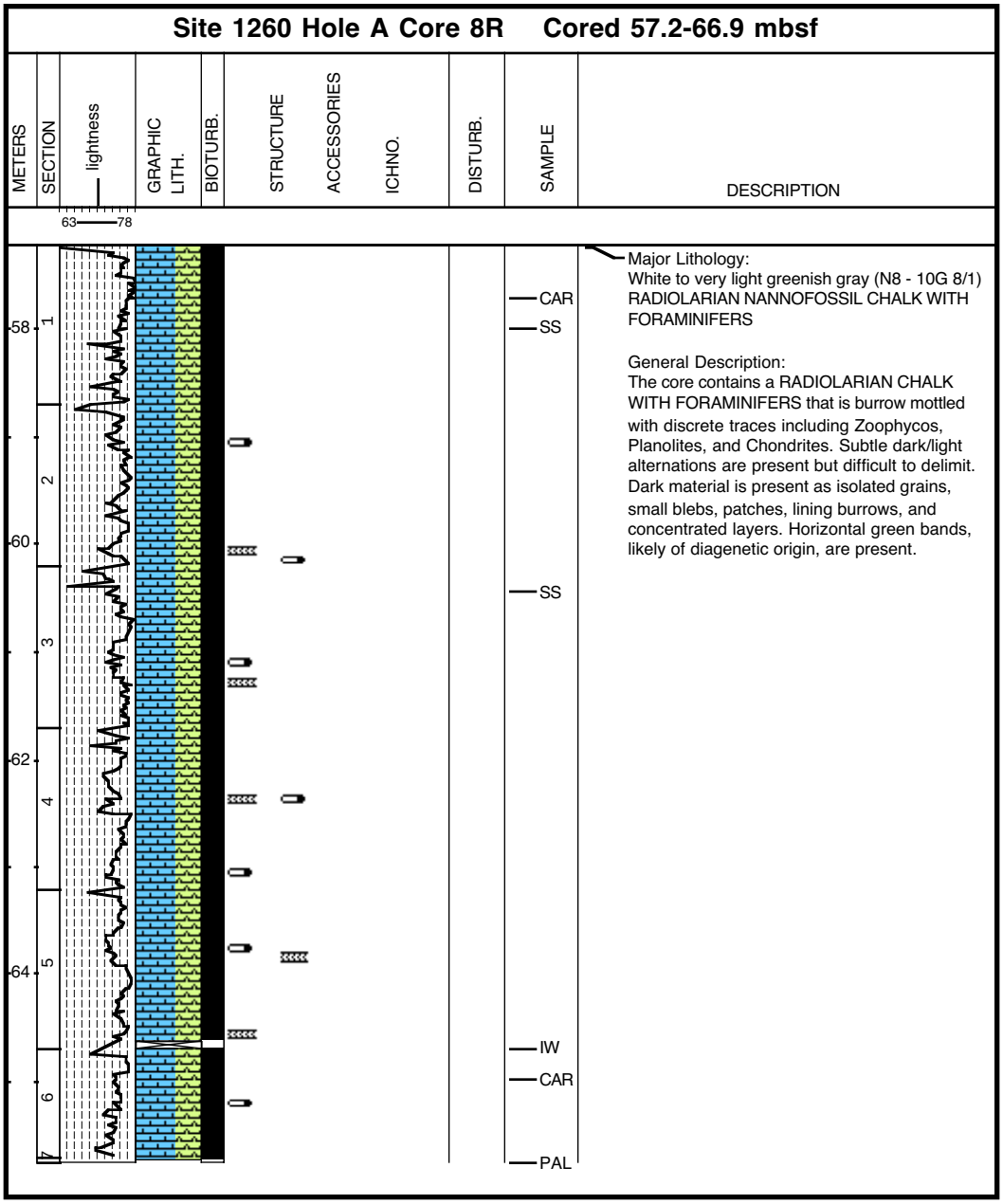
Core Photo


Site 1260 Hole A Core 6R Cored 38.2-47.5 mbsf
METERS
SECTION
lightness
51
76
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
40
42
44
1
2
3
4
5
6
7
CAR
SS
SS
SS
CAR
IW
CAR
PAL
Major Lithology:
Very light greenish gray (10G 8/1 – 10GY 8/1) to pale olive (5Y 6/2) RADIOLARIAN NANNOFOSSIL CHALK
General Description:
The core contains a RADIOLARIAN NANNOFOSSIL CHALK with foraminifers and siliceous sponge spicules comprising a significant minor constituent in some intervals. Colors are dominantly very light greenish gray, but pale olive colors and olive burrows are present in Sections 3 and 4. Core is burrow mottled with discrete traces including Zoophycos, Planolites, and Chondrites. Subtle dark/light alternations are present but difficult to delimit. Dark material is present as isolated grains, small blebs, patches, lining burrows, and concentrated layers in which >50% of a smear slide sample is composed of opaque grains.
Region of conentrated patches of black monosulfides

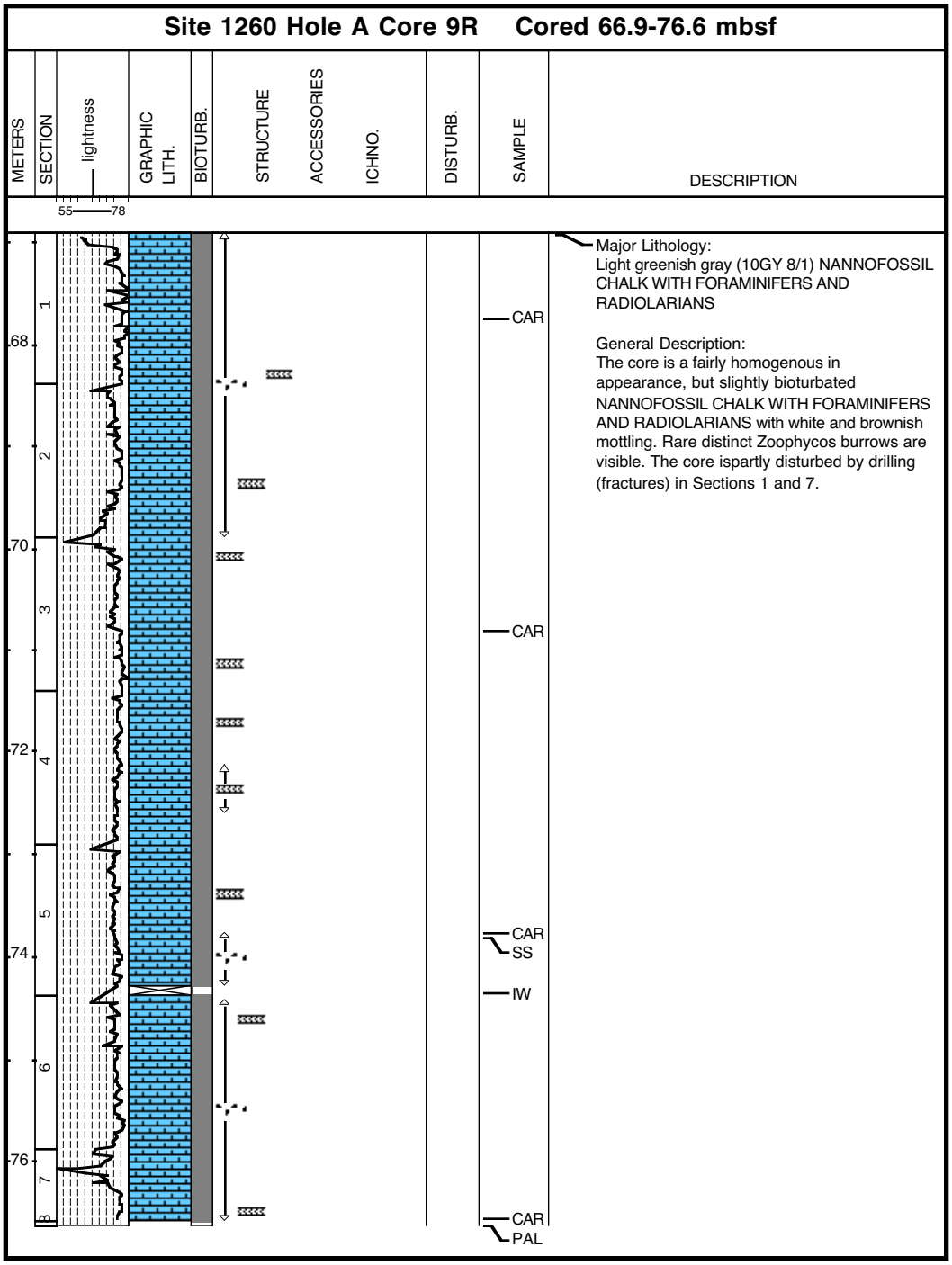
Core Photo


Site 1260 Hole A Core 7R Cored 47.5-57.2 mbsf
METERS
SECTION
lightness
57
80
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
48
50
52
54
56
1
2
3
4
5
6
7
CAR
SS
CAR
SS
IW
PAL
Major Lithology:
Very light greenish gray (10G 8/1 – 10GY 8/1) to pale olive (5Y 6/2) RADIOLARIAN NANNOFOSSIL CHALK
General Description:
The core contains a RADIOLARIAN NANNOFOSSIL CHALK with foraminifers and siliceous sponge spicules comprising a significant minor constituent in some samples. The sediments are burrow mottled with discrete traces including Zoophycos, Planolites, and Chondrites. Subtle dark/light alternations are present but difficult to delimit. Dark material is present as isolated grains, small blebs, patches, lining burrows, and concentrated layers. Green layers, likely of diagenetic origin, are also found. The core has intervals of significant drilling disturbance, which are characterized by an ooze-like texture and lack of burrows.
60 -68 cm, discrete layer of finer material
100-110 cm discrete layer of finer material

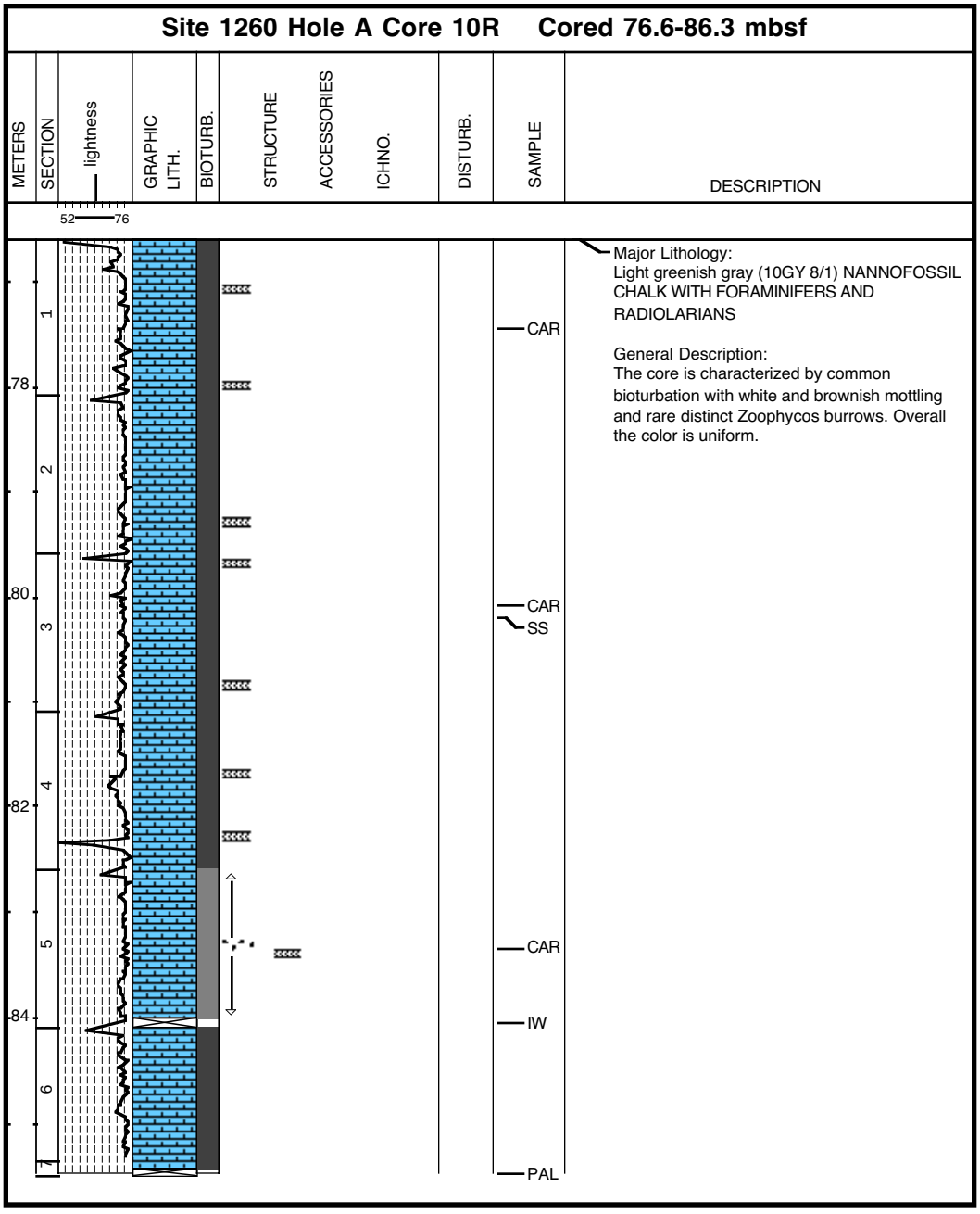
Core Photo


Site 1260 Hole A Core 8R Cored 57.2-66.9 mbsf
METERS
SECTION
lightness
63
78
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
58
60
62
64
1
2
3
4
5
6
CAR
SS
SS
IW
CAR
PAL
Major Lithology:
White to very light greenish gray (N8 - 10G 8/1) RADIOLARIAN NANNOFOSSIL CHALK WITH FORAMINIFERS
General Description:
The core contains a RADIOLARIAN CHALK WITH FORAMINIFERS that is burrow mottled with discrete traces including Zoophycos, Planolites, and Chondrites. Subtle dark/light alternations are present but difficult to delimit. Dark material is present as isolated grains, small blebs, patches, lining burrows, and concentrated layers. Horizontal green bands, likely of diagenetic origin, are present.

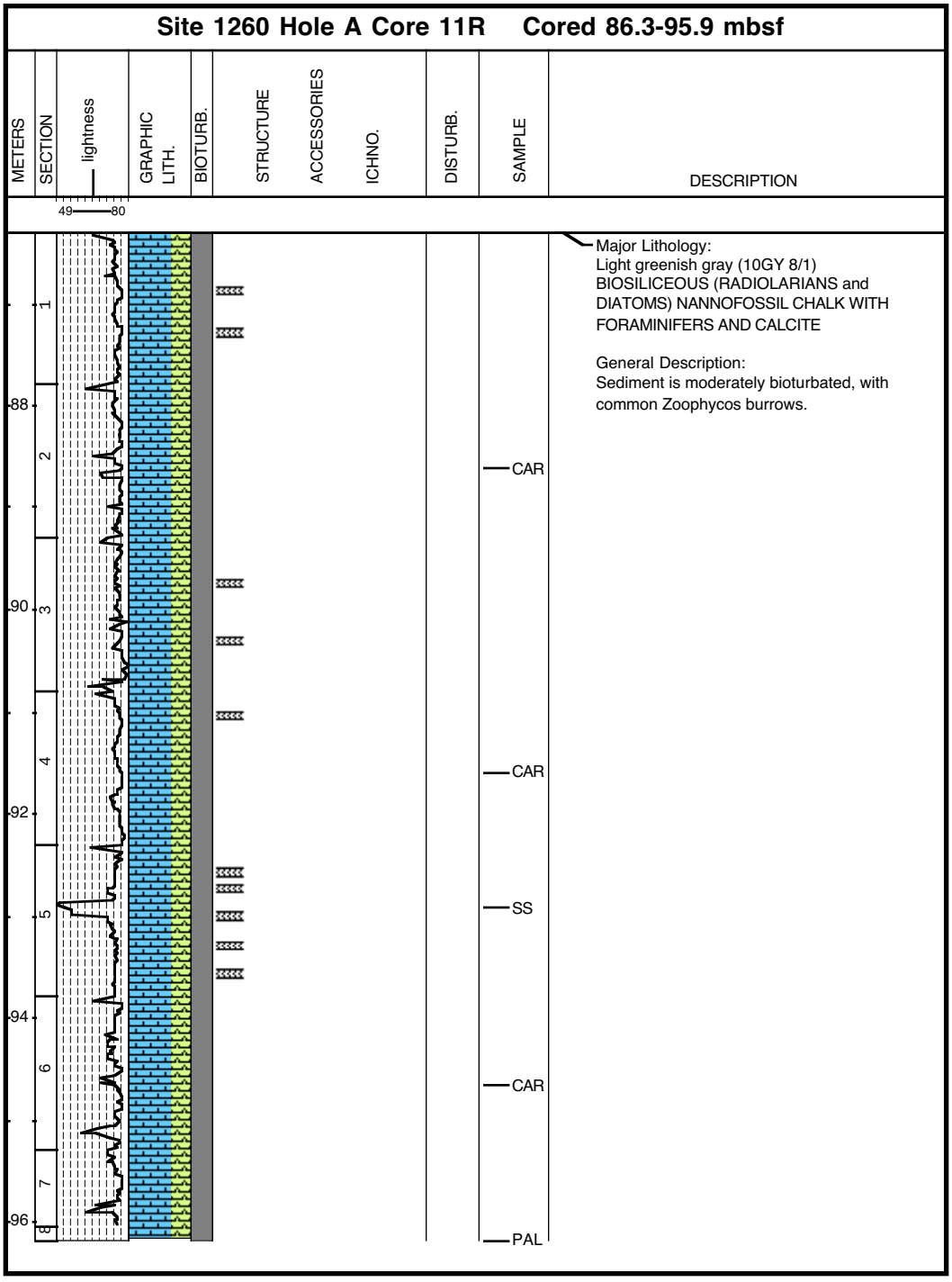
Core Photo


Site 1260 Hole A Core 9R Cored 66.9-76.6 mbsf
METERS
SECTION
lightness
55
78
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
1
2
3
4
5
6
7
CC
68
70
72
74
76
CAR
CAR
CAR
SS
IW
CAR
PAL
Major Lithology:
Light greenish gray (10GY 8/1) NANNOFOSSIL CHALK WITH FORAMINIFERS AND RADIOLARIANS
General Description:
The core is a fairly homogenous in appearance, but slightly bioturbated NANNOFOSSIL CHALK WITH FORAMINIFERS AND RADIOLARIANS with white and brownish mottling. Rare distinct Zoophycos burrows are visible. The core ispartly disturbed by drilling (fractures) in Sections 1 and 7.

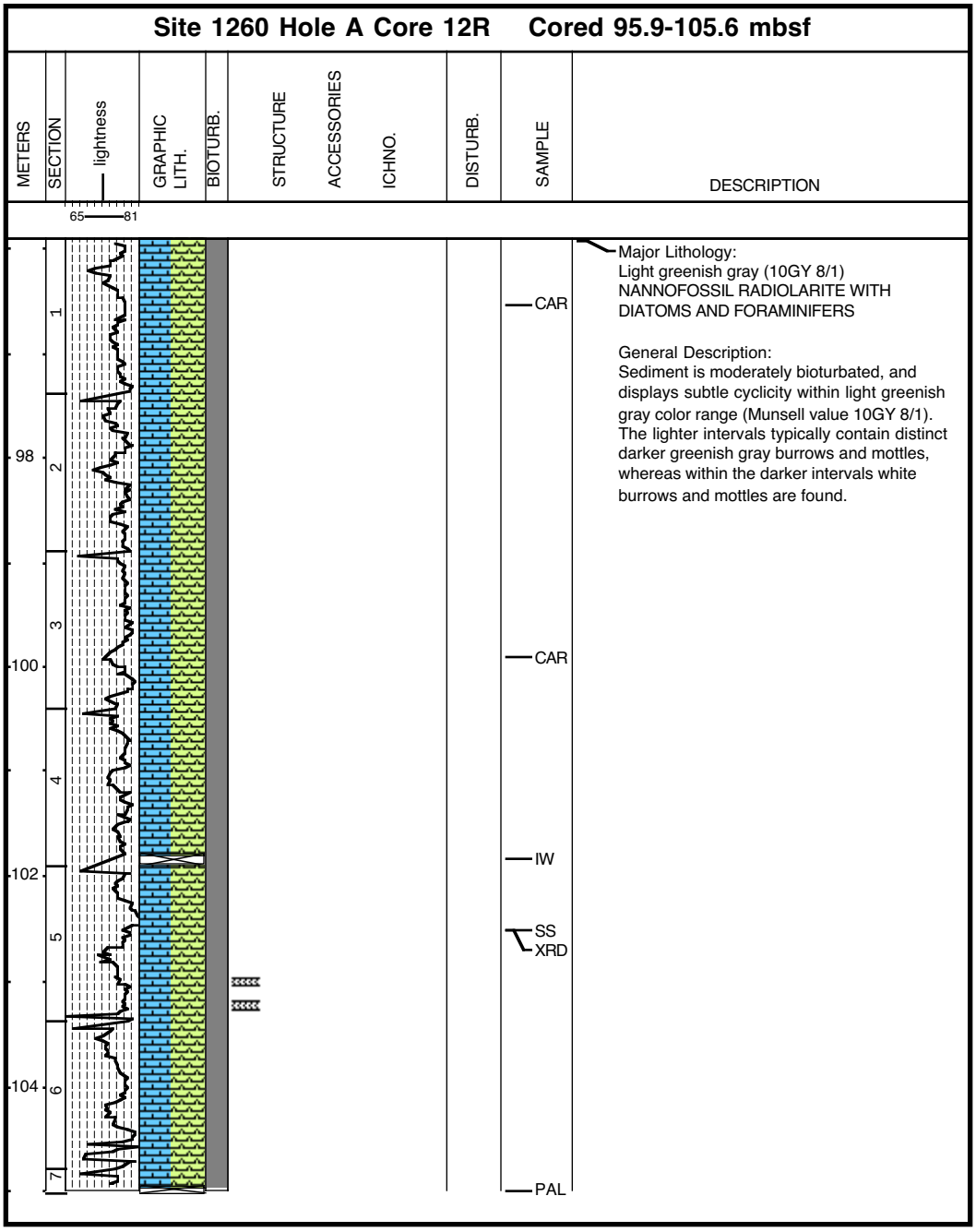
Core Photo


Site 1260 Hole A Core 10R Cored 76.6-86.3 mbsf
METERS
SECTION
lightness
52
76
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
78
80
82
84
1
2
3
4
5
6
7
CAR
CAR
SS
CAR
IW
PAL
Major Lithology:
Light greenish gray (10GY 8/1) NANNOFOSSIL CHALK WITH FORAMINIFERS AND RADIOLARIANS
General Description:
The core is characterized by common bioturbation with white and brownish mottling and rare distinct Zoophycos burrows. Overall the color is uniform.

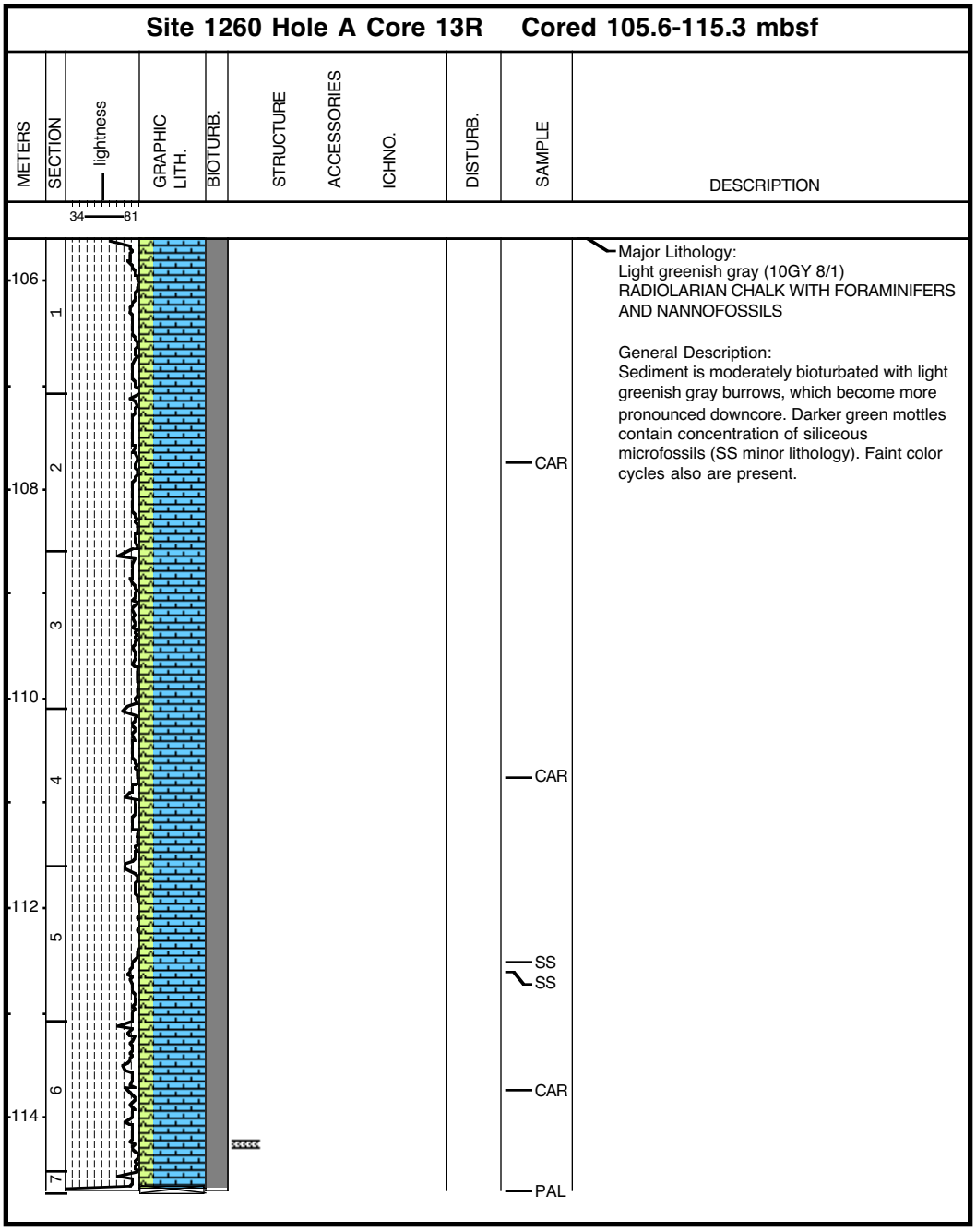
Core Photo


Site 1260 Hole A Core 11R Cored 86.3-95.9 mbsf
METERS
SECTION
lightness
49
80
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
88
90
92
94
96
1
2
3
4
5
6
7
CAR
CAR
SS
CAR
PAL
Major Lithology:
Light greenish gray (10GY 8/1) BIOSILICEOUS (RADIOLARIANS and DIATOMS) NANNOFOSSIL CHALK WITH FORAMINIFERS AND CALCITE
General Description:
Sediment is moderately bioturbated, with common Zoophycos burrows.

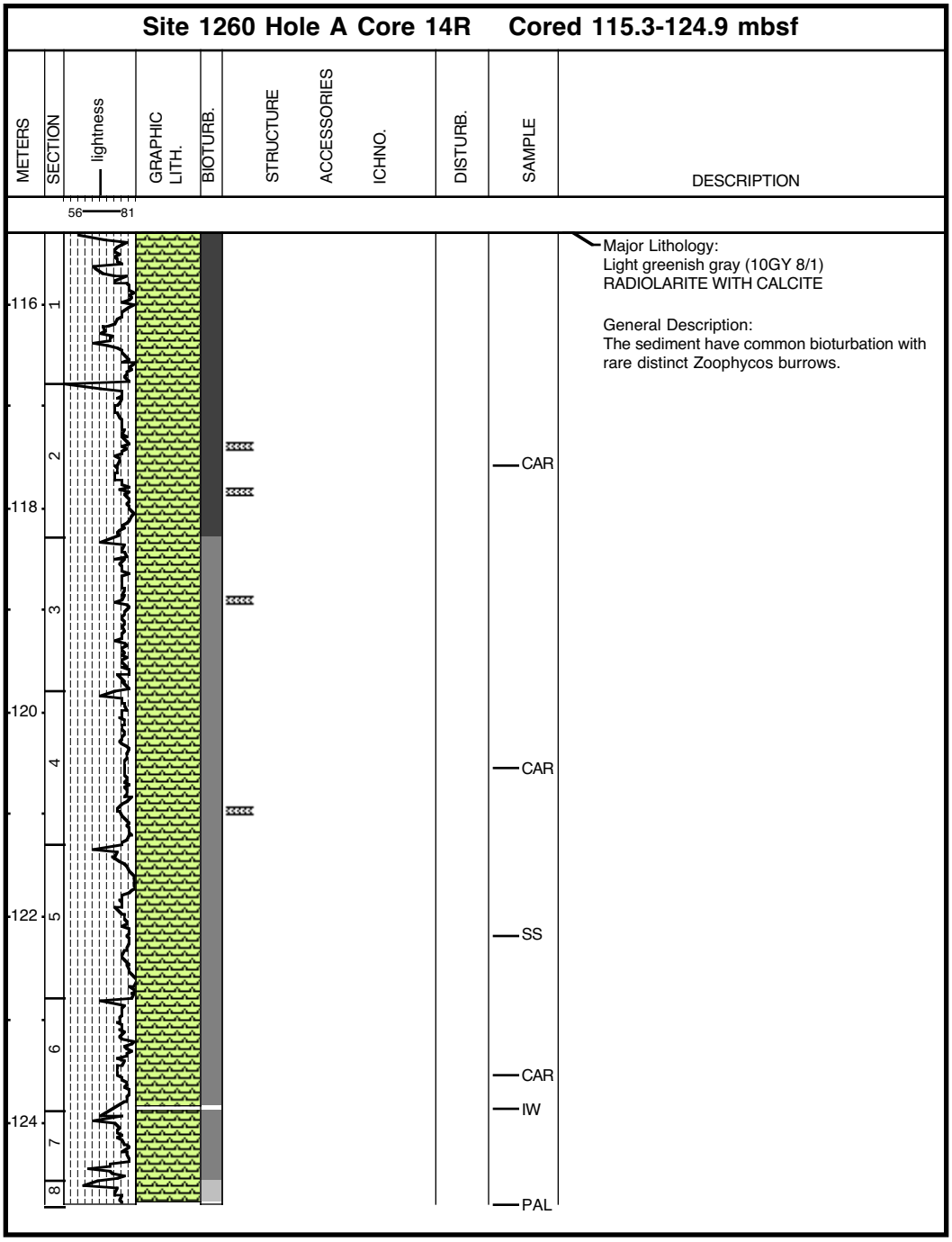
Core Photo


Site 1260 Hole A Core 12R Cored 95.9-105.6 mbsf
METERS
SECTION
lightness
65
81
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
98
100
102
104
1
2
3
4
5
6
7
CAR
CAR
IW
SS
XRD
PAL
Major Lithology:
Light greenish gray (10GY 8/1)
NANNOFOSSIL RADIOLARITE WITH
DIATOMS AND FORAMINIFERS
General Description:
Sediment is moderately bioturbated, and displays subtle cyclicity within light greenish gray color range (Munsell value 10GY 8/1). The lighter intervals typically contain distinct darker greenish gray burrows and mottles, whereas within the darker intervals white burrows and mottles are found.

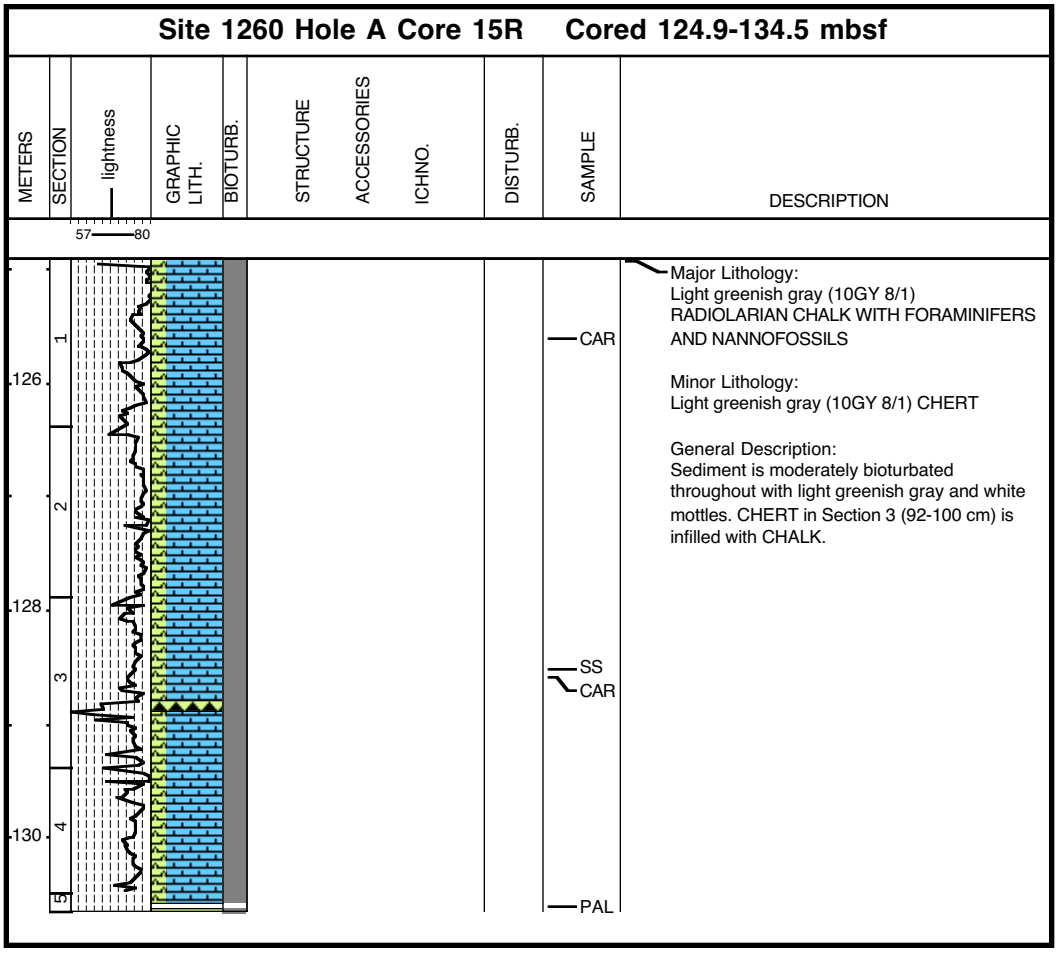
Core Photo


Site 1260 Hole A Core 13R Cored 105.6-115.3 mbsf
METERS
SECTION
lightness
34
81
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
106
108
110
112
114
1
2
3
4
5
6
7
CAR
CAR
SS
SS
CAR
PAL
Major Lithology:
Light greenish gray (10GY 8/1)
RADIOLARIAN CHALK WITH FORAMINIFERS AND NANNOFOSSILS
General Description:
Sediment is moderately bioturbated with light greenish gray burrows, which become more pronounced downcore. Darker green mottles contain concentration of siliceous microfossils (SS minor lithology). Faint color cycles also are present.

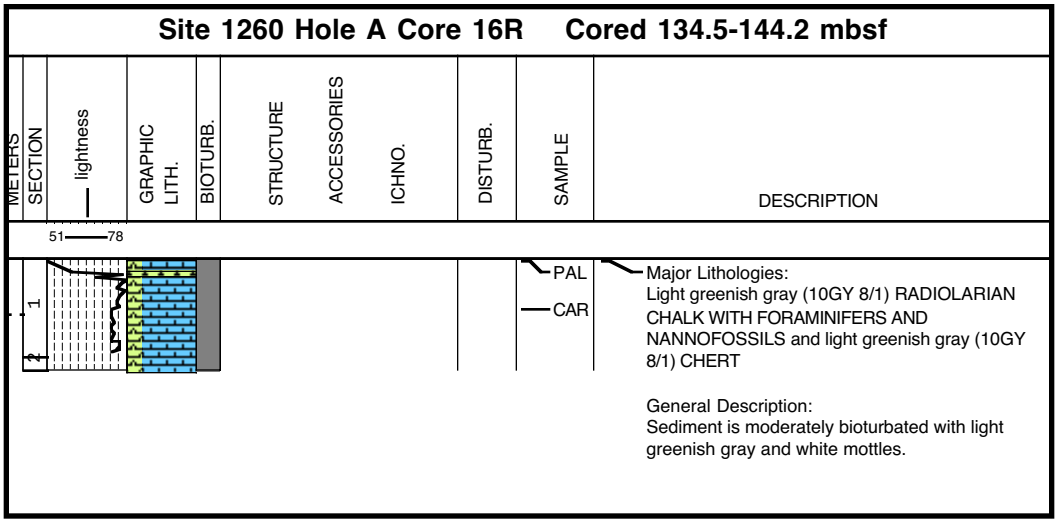
Core Photo


Site 1260 Hole A Core 14R Cored 115.3-124.9 mbsf
METERS
SECTION
lightness
56
81
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
116
118
120
122
124
1
2
3
4
5
6
7
8
CAR
CAR
SS
CAR
IW
PAL
Major Lithology:
Light greenish gray (10GY 8/1)
RADIOLARITE WITH CALCITE
General Description:
The sediment have common bioturbation with rare distinct Zoophycos burrows.

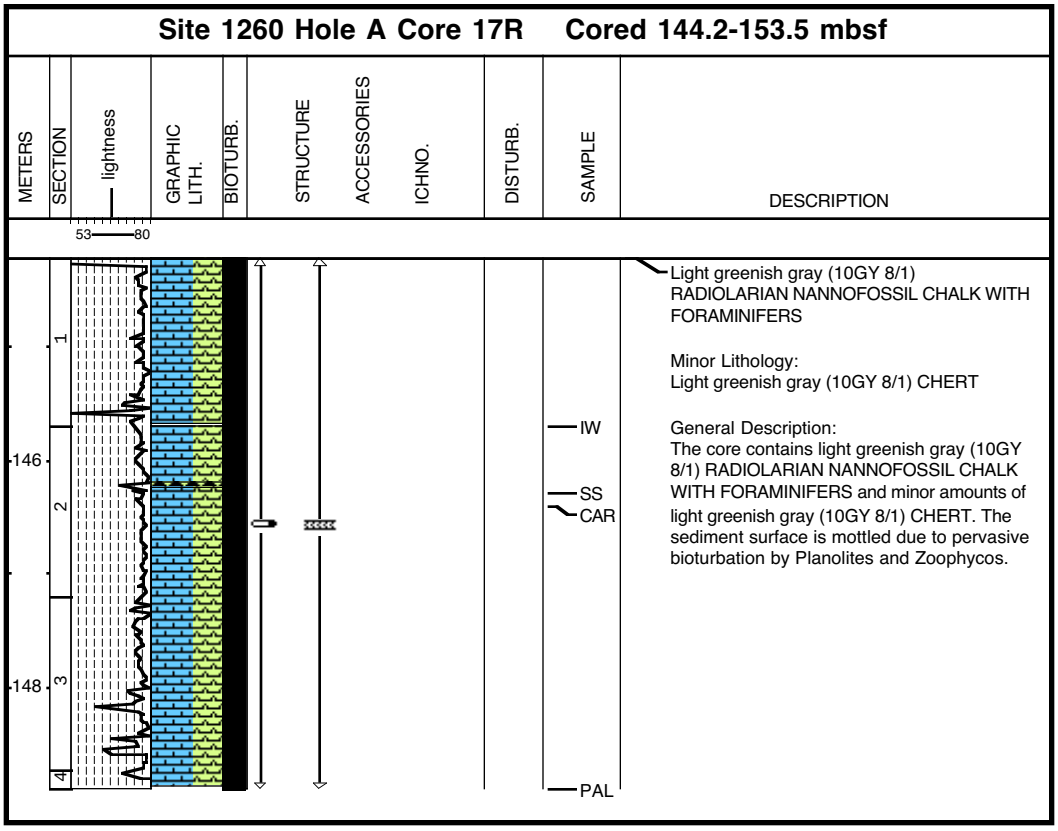
Core Photo


Site 1260 Hole A Core 15R Cored 124.9-134.5 mbsf
METERS
SECTION
lightness
57
80
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
126
128
130
1
2
3
4
5
CAR
SS
CAR
PAL
Major Lithology:
Light greenish gray (10GY 8/1)
RADIOLARIAN CHALK WITH FORAMINIFERS AND NANNOFOSSILS
Minor Lithology:
Light greenish gray (10GY 8/1) CHERT
General Description:
Sediment is moderately bioturbated throughout with light greenish gray and white mottles. CHERT in Section 3 (92-100 cm) is infilled with CHALK.

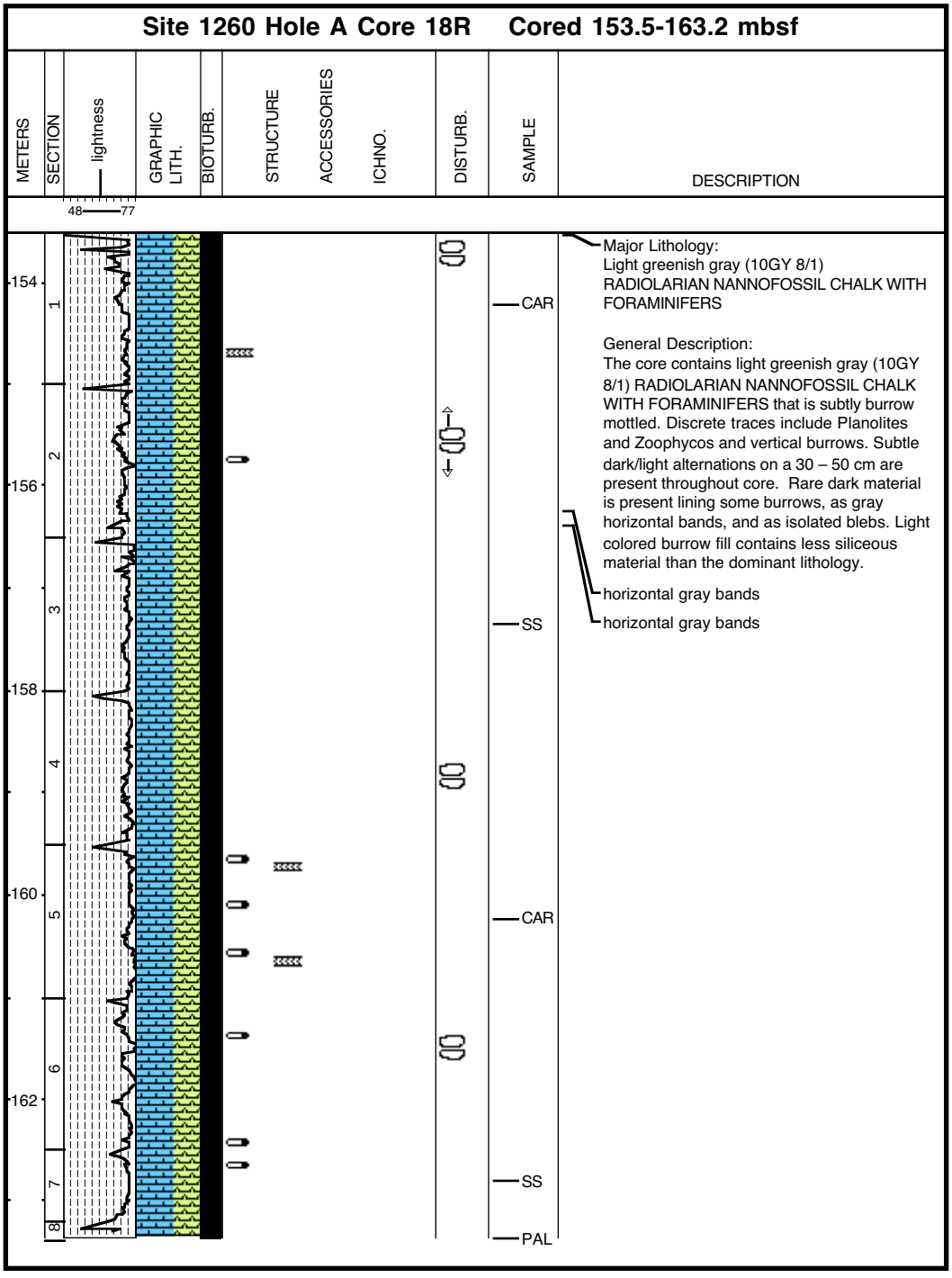
Core Photo


Site 1260 Hole A Core 16R Cored 134.5-144.2 mbsf
METERS
SECTION
lightness
51
78
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
1
PAL
CAR
Major Lithologies:
Light greenish gray (10GY 8/1) RADIOLARIAN CHALK WITH FORAMINIFERS AND NANNOFOSSILS and light greenish gray (10GY 8/1) CHERT
General Description:
Sediment is moderately bioturbated with light greenish gray and white mottles.

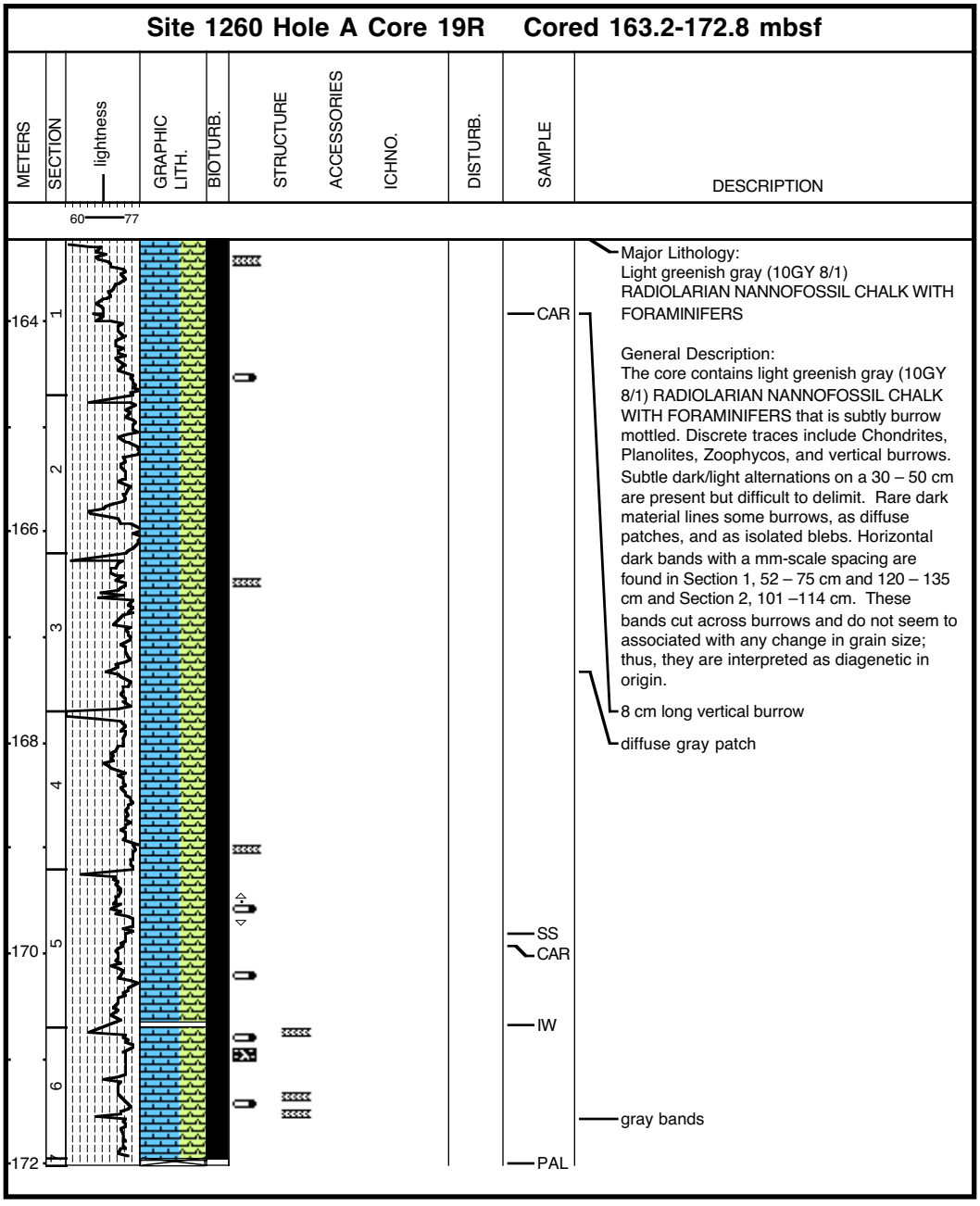
Core Photo


Site 1260 Hole A Core 17R Cored 144.2-153.5 mbsf
METERS
SECTION
lightness
53
80
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
146
148
1
2
3
4
IW
SS
CAR
PAL
Light greenish gray (10GY 8/1) RADIOLARIAN NANNOFOSSIL CHALK WITH FORAMINIFERS
Minor Lithology:
Light greenish gray (10GY 8/1) CHERT
General Description:
The core contains light greenish gray (10GY 8/1) RADIOLARIAN NANNOFOSSIL CHALK WITH FORAMINIFERS and minor amounts of light greenish gray (10GY 8/1) CHERT. The sediment surface is mottled due to pervasive bioturbation by Planolites and Zoophycos.

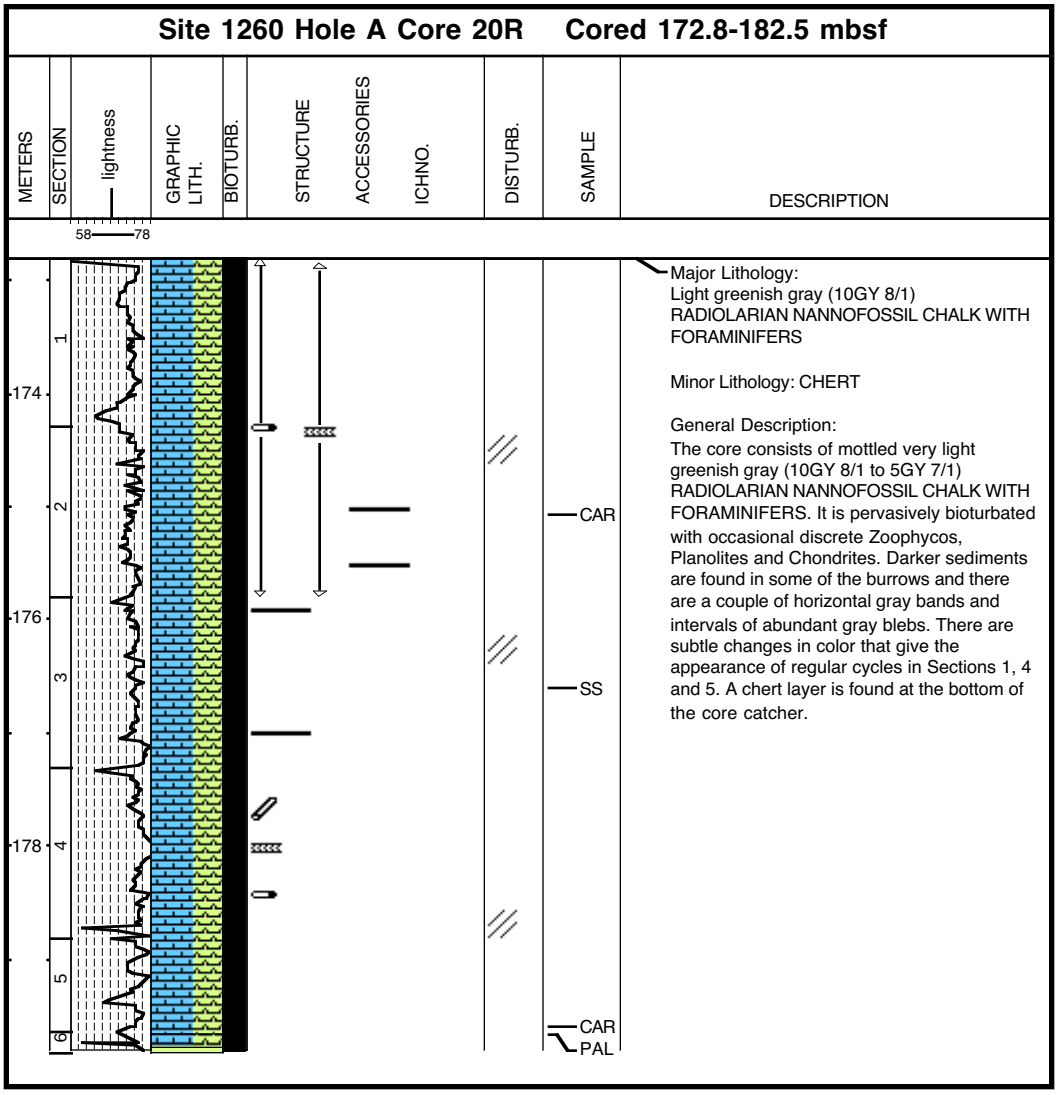
Core Photo


Site 1260 Hole A Core 18R Cored 153.5-163.2 mbsf
METERS
SECTION
lightness
48
77
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
154
156
158
160
162
1
2
3
4
5
6
7
8
CAR
SS
CAR
SS
PAL
Major Lithology:
Light greenish gray (10GY 8/1)
RADIOLARIAN NANNOFOSSIL CHALK WITH FORAMINIFERS
General Description:
The core contains light greenish gray (10GY 8/1) RADIOLARIAN NANNOFOSSIL CHALK WITH FORAMINIFERS that is subtly burrow mottled. Discrete traces include Planolites and Zoophycos and vertical burrows. Subtle dark/light alternations on a 30 – 50 cm are present throughout core. Rare dark material is present lining some burrows, as gray horizontal bands, and as isolated blebs. Light colored burrow fill contains less siliceous material than the dominant lithology.
horizontal gray bands
horizontal gray bands

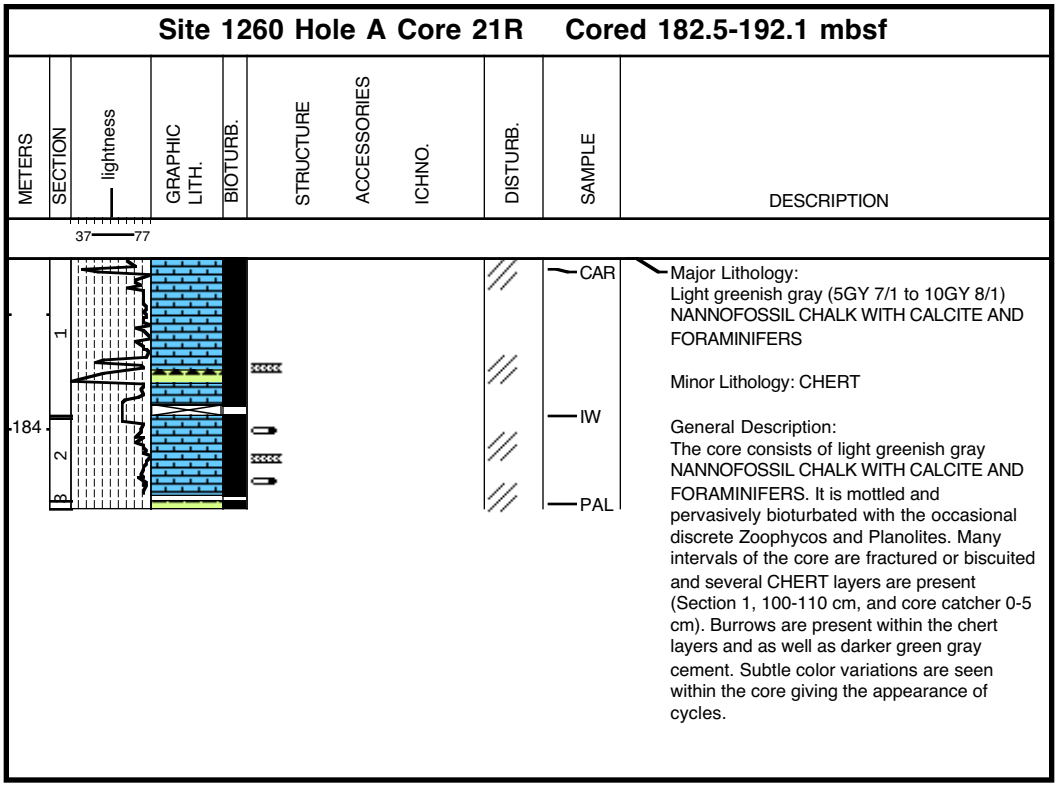
Core Photo


Site 1260 Hole A Core 19R Cored 163.2-172.8 mbsf
METERS
SECTION
lightness
60
77
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
164
166
168
170
172
1
2
3
4
5
6
CAR
SS
CAR
IW
PAL
Major Lithology:
Light greenish gray (10GY 8/1)
RADIOLARIAN NANNOFOSSIL CHALK WITH FORAMINIFERS
General Description:
The core contains light greenish gray (10GY 8/1) RADIOLARIAN NANNOFOSSIL CHALK WITH FORAMINIFERS that is subtly burrow mottled. Discrete traces include Chondrites, Planolites, Zoophycos, and vertical burrows. Subtle dark/light alternations on a 30 – 50 cm are present but difficult to delimit. Rare dark material lines some burrows, as diffuse patches, and as isolated blebs. Horizontal dark bands with a mm-scale spacing are found in Section 1, 52 – 75 cm and 120 – 135 cm and Section 2, 101 –114 cm. These bands cut across burrows and do not seem to associated with any change in grain size; thus, they are interpreted as diagenetic in origin.
8 cm long vertical burrow
diffuse gray patch
gray bands

Core Photo

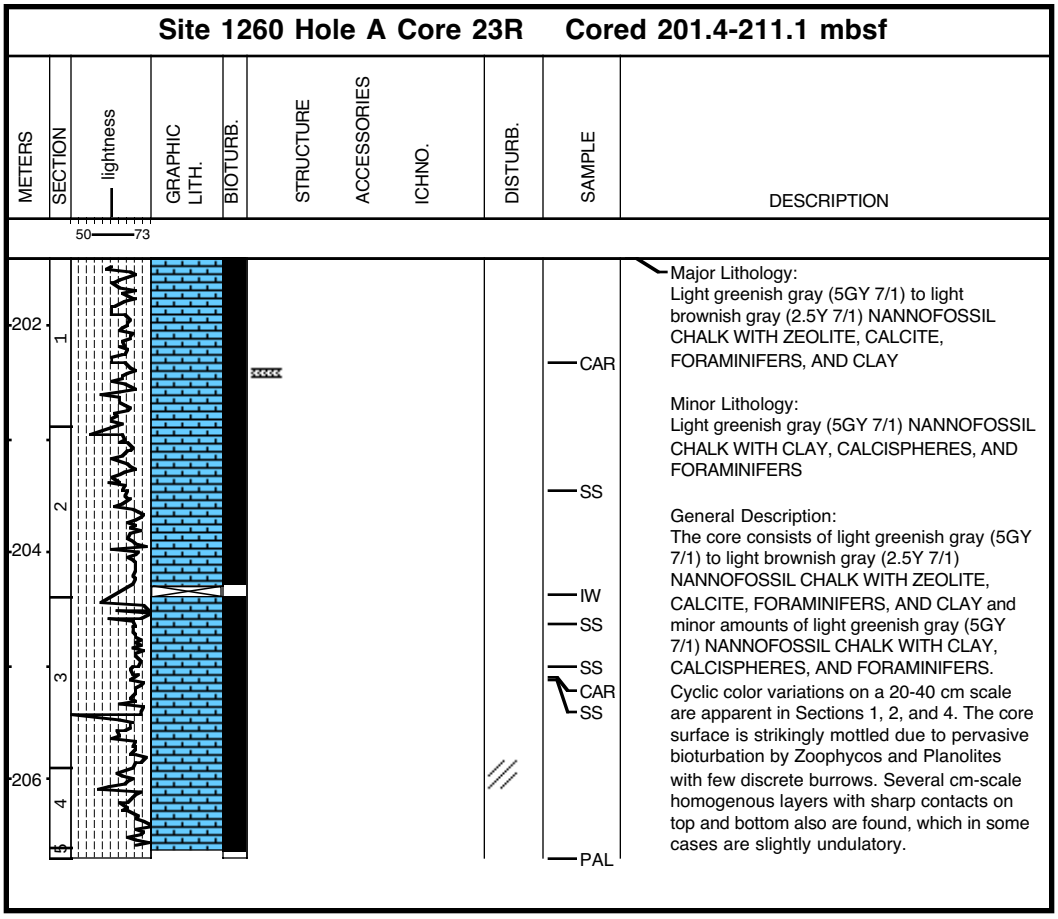

Site 1260 Hole A Core 20R Cored 172.8-182.5 mbsf
METERS
SECTION
lightness
58
78
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
174
176
178
1
2
3
4
5
6
CAR
SS
CAR
PAL
Major Lithology:
Light greenish gray (10GY 8/1)
RADIOLARIAN NANNOFOSSIL CHALK WITH FORAMINIFERS
Minor Lithology: CHERT
General Description:
The core consists of mottled very light greenish gray (10GY 8/1 to 5GY 7/1) RADIOLARIAN NANNOFOSSIL CHALK WITH FORAMINIFERS. It is pervasively bioturbated with occasional discrete Zoophycos, Planolites and Chondrites. Darker sediments are found in some of the burrows and there are a couple of horizontal gray bands and intervals of abundant gray blebs. There are subtle changes in color that give the appearance of regular cycles in Sections 1, 4 and 5. A chert layer is found at the bottom of the core catcher.

Core Photo

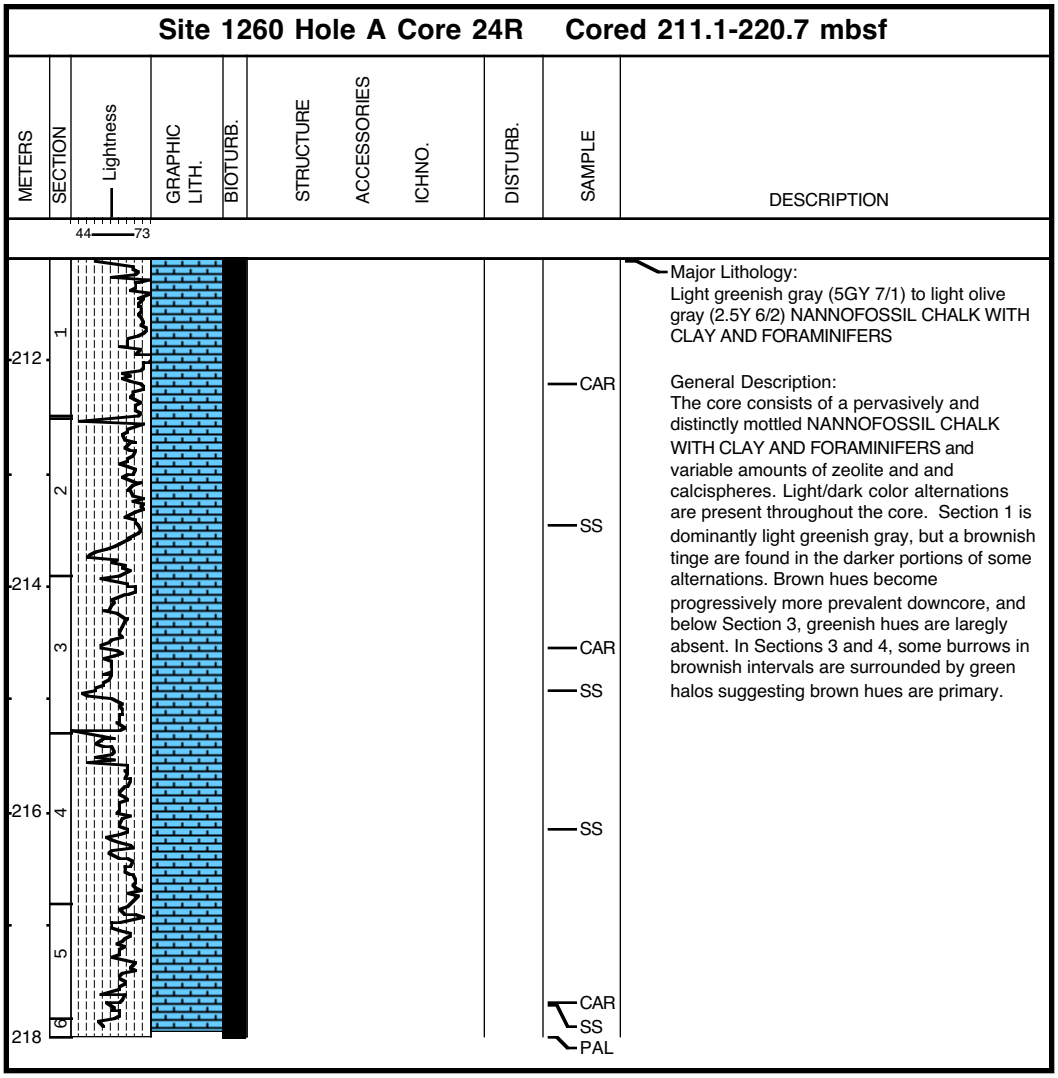


1260A-22R ENTIRE CORE GIVEN TO PALEONTOLOGISTS.

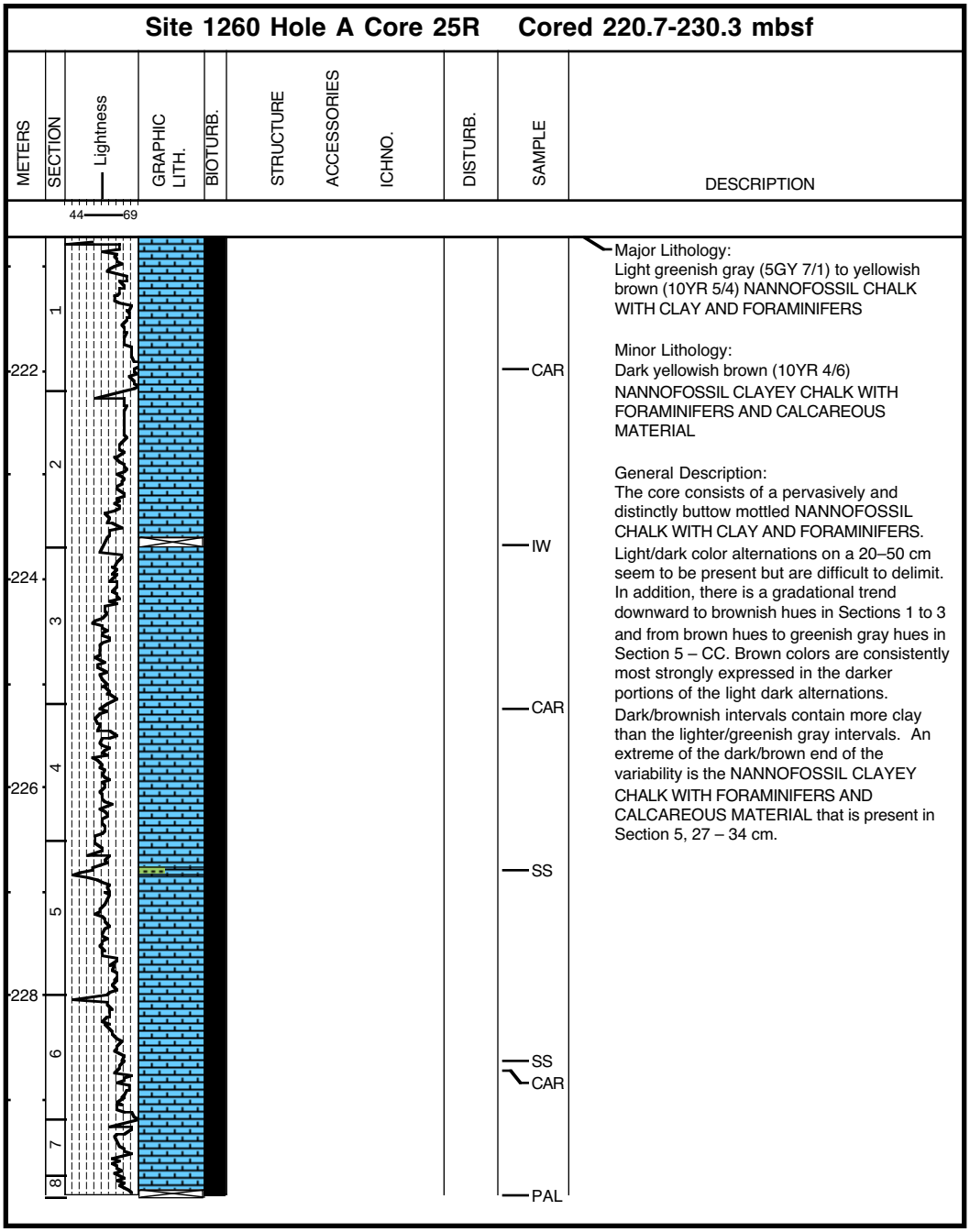
Core Photo


Site 1260 Hole A Core 23R Cored 201.4-211.1 mbsf
METERS
SECTION
lightness
50
73
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
202
204
206
1
2
3
4
CAR
SS
IW
SS
SS
CAR
SS
PAL
Major Lithology:
Light greenish gray (5GY 7/1) to light brownish gray (2.5Y 7/1) NANNOFOSSIL CHALK WITH ZEOLITE, CALCITE, FORAMINIFERS, AND CLAY
Minor Lithology:
Light greenish gray (5GY 7/1) NANNOFOSSIL CHALK WITH CLAY, CALCISPHERES, AND FORAMINIFERS
General Description:
The core consists of light greenish gray (5GY 7/1) to light brownish gray (2.5Y 7/1) NANNOFOSSIL CHALK WITH ZEOLITE, CALCITE, FORAMINIFERS, AND CLAY and minor amounts of light greenish gray (5GY 7/1) NANNOFOSSIL CHALK WITH CLAY, CALCISPHERES, AND FORAMINIFERS. Cyclic color variations on a 20-40 cm scale are apparent in Sections 1, 2, and 4. The core surface is strikingly mottled due to pervasive bioturbation by Zoophycos and Planolites with few discrete burrows. Several cm-scale homogenous layers with sharp contacts on top and bottom also are found, which in some cases are slightly undulatory.

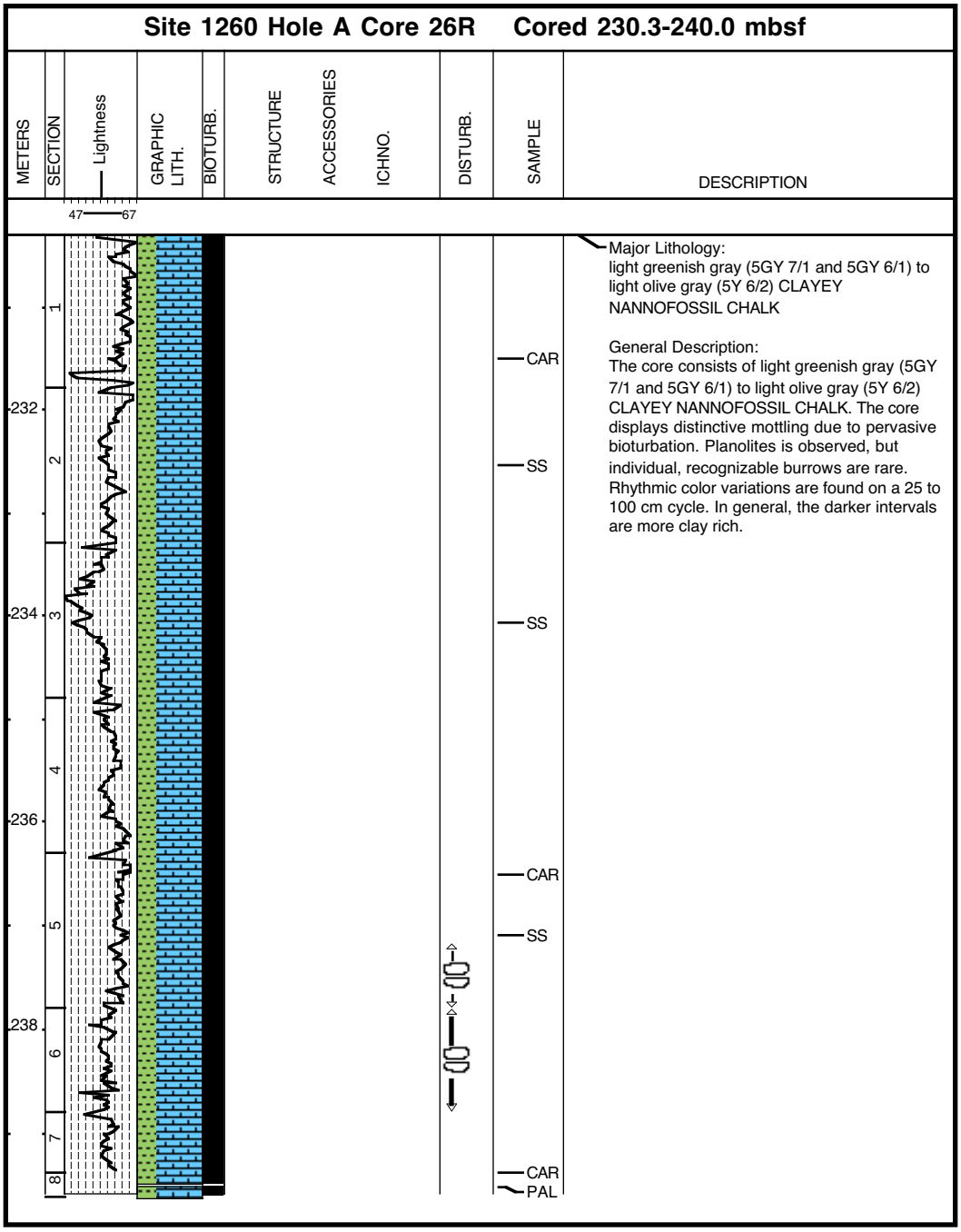
Core Photo


Site 1260 Hole A Core 24R Cored 211.1-220.7 mbsf
METERS
SECTION
Lightness
44
73
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
212
214
216
218
1
2
3
4
5
6
CAR
SS
CAR
SS
SS
CAR
SS
PAL
Major Lithology:
Light greenish gray (5GY 7/1) to light olive gray (2.5Y 6/2) NANNOFOSSIL CHALK WITH CLAY AND FORAMINIFERS
General Description:
The core consists of a pervasively and distinctly mottled NANNOFOSSIL CHALK WITH CLAY AND FORAMINIFERS and variable amounts of zeolite and and calcispheres. Light/dark color alternations are present throughout the core. Section 1 is dominantly light greenish gray, but a brownish tinge are found in the darker portions of some alternations. Brown hues become progressively more prevalent downcore, and below Section 3, greenish hues are laregly absent. In Sections 3 and 4, some burrows in brownish intervals are surrounded by green halos suggesting brown hues are primary.

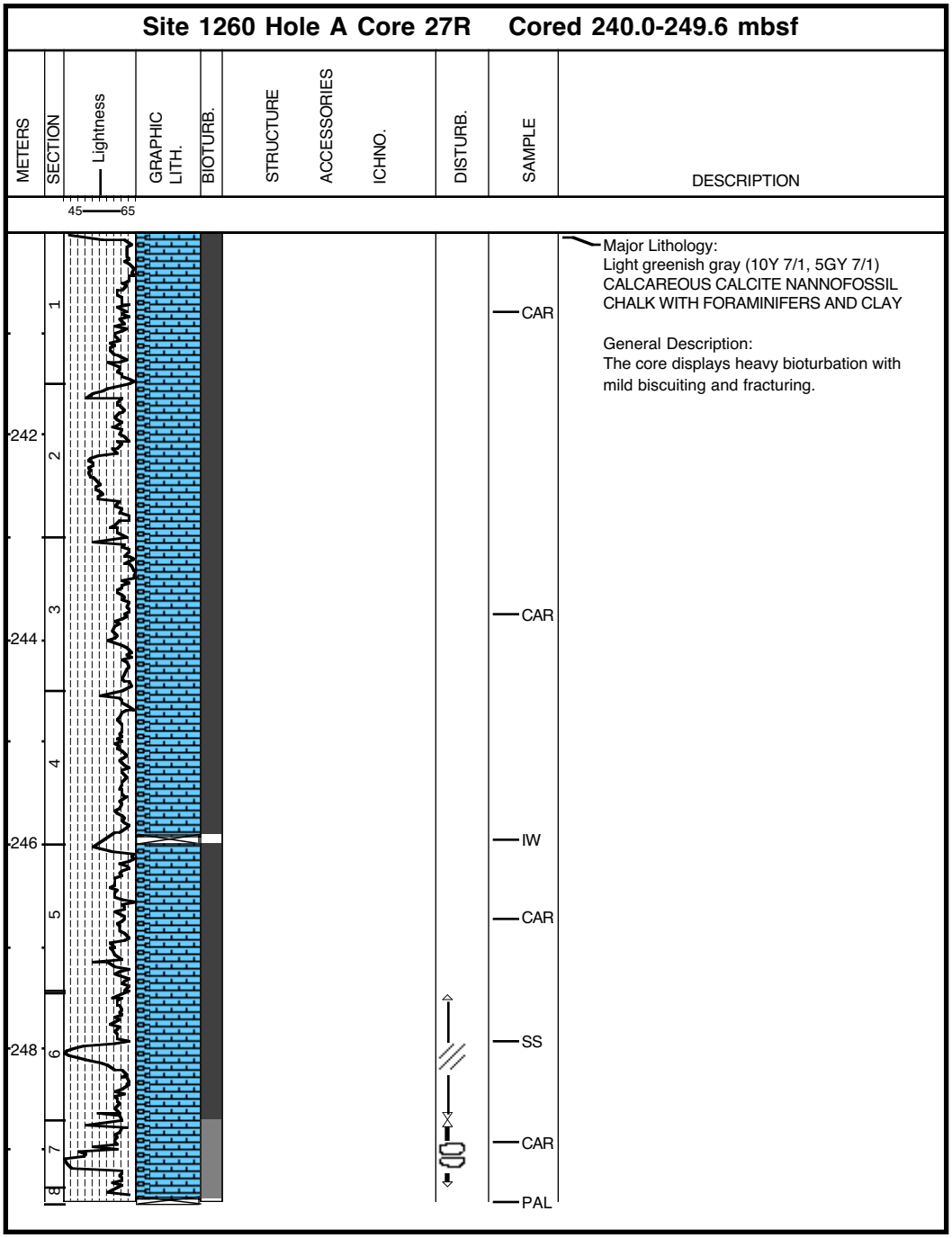
Core Photo


Site 1260 Hole A Core 25R Cored 220.7-230.3 mbsf
METERS
SECTION
Lightness
44
69
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
222
224
226
228
1
2
3
4
5
6
7
8
CAR
IW
CAR
SS
SS
CAR
PAL
Major Lithology:
Light greenish gray (5GY 7/1) to yellowish brown (10YR 5/4) NANNOFOSSIL CHALK WITH CLAY AND FORAMINIFERS
Minor Lithology:
Dark yellowish brown (10YR 4/6) NANNOFOSSIL CLAYEY CHALK WITH FORAMINIFERS AND CALCAREOUS MATERIAL
General Description:
The core consists of a pervasively and distinctly buttow mottled NANNOFOSSIL CHALK WITH CLAY AND FORAMINIFERS. Light/dark color alternations on a 20–50 cm seem to be present but are difficult to delimit. In addition, there is a gradational trend downward to brownish hues in Sections 1 to 3 and from brown hues to greenish gray hues in Section 5 – CC. Brown colors are consistently most strongly expressed in the darker portions of the light dark alternations. Dark/brownish intervals contain more clay than the lighter/greenish gray intervals. An extreme of the dark/brown end of the variability is the NANNOFOSSIL CLAYEY CHALK WITH FORAMINIFERS AND CALCAREOUS MATERIAL that is present in Section 5, 27 – 34 cm.

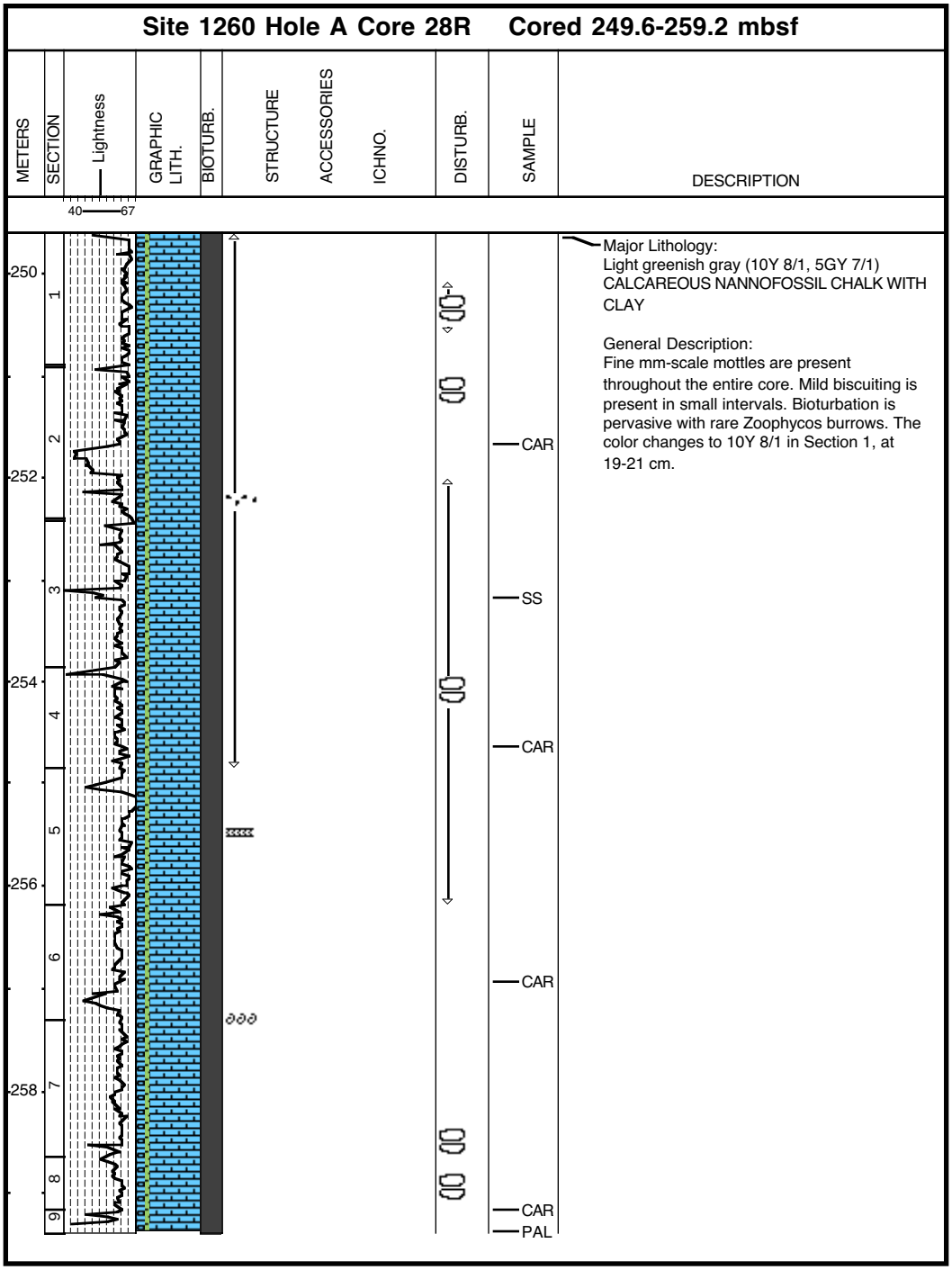
Core Photo


Site 1260 Hole A Core 26R Cored 230.3-240.0 mbsf
METERS
SECTION
Lightness
47
67
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
232
234
236
238
1
2
3
4
5
6
7
8
CAR
SS
SS
CAR
SS
CAR
PAL
Major Lithology:
light greenish gray (5GY 7/1 and 5GY 6/1) to light olive gray (5Y 6/2) CLAYEY NANNOFOSSIL CHALK
General Description:
The core consists of light greenish gray (5GY 7/1 and 5GY 6/1) to light olive gray (5Y 6/2) CLAYEY NANNOFOSSIL CHALK. The core displays distinctive mottling due to pervasive bioturbation. Planolites is observed, but individual, recognizable burrows are rare. Rhythmic color variations are found on a 25 to 100 cm cycle. In general, the darker intervals are more clay rich.

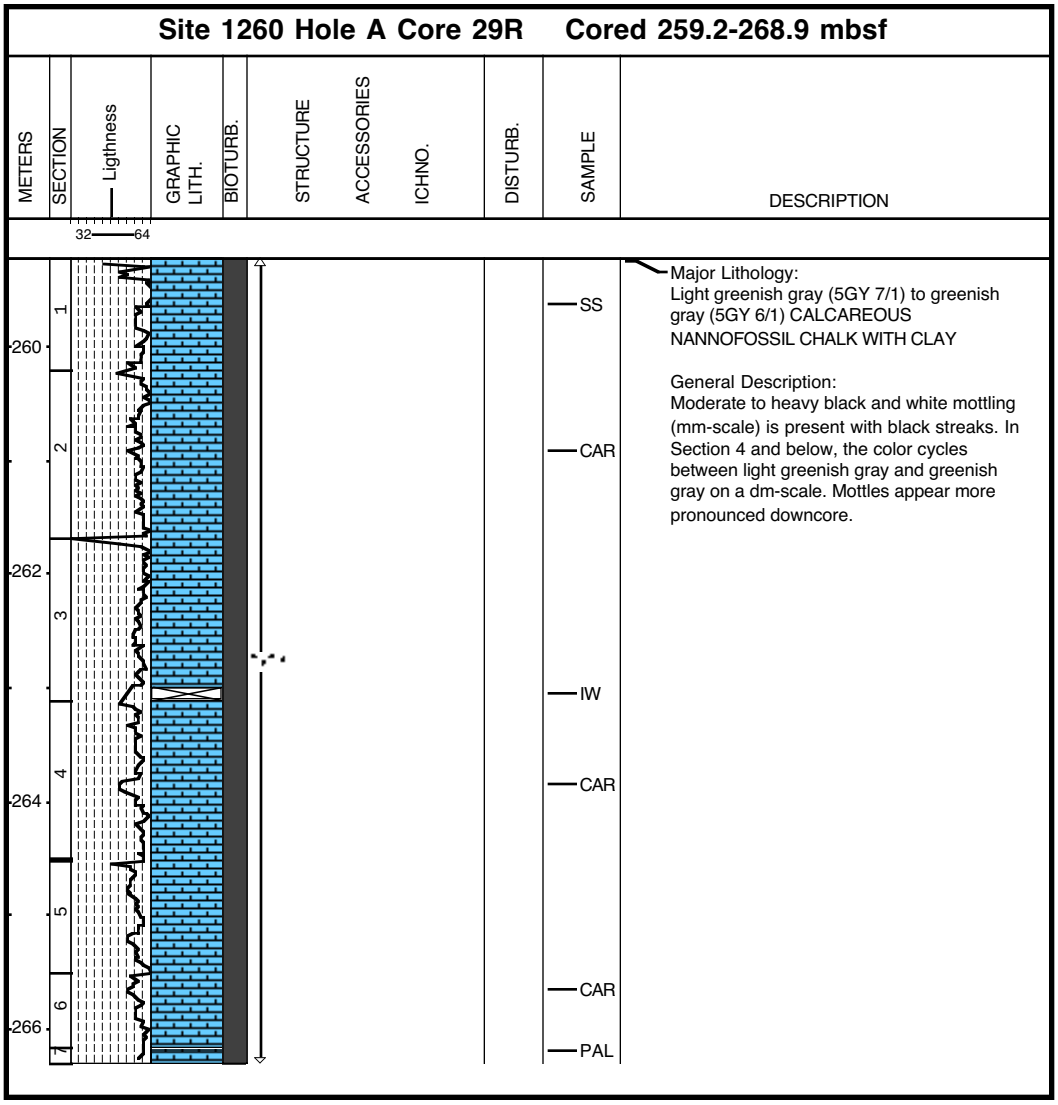
Core Photo


Site 1260 Hole A Core 27R Cored 240.0-249.6 mbsf
METERS
SECTION
Lightness
45
65
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
242
244
246
248
1
2
3
4
5
6
7
CAR
CAR
IW
CAR
SS
CAR
PAL
Major Lithology:
Light greenish gray (10Y 7/1, 5GY 7/1)
CALCAREOUS CALCITE NANNOFOSSIL
CHALK WITH FORAMINIFERS AND CLAY
General Description:
The core displays heavy bioturbation with
mild biscuiting and fracturing.

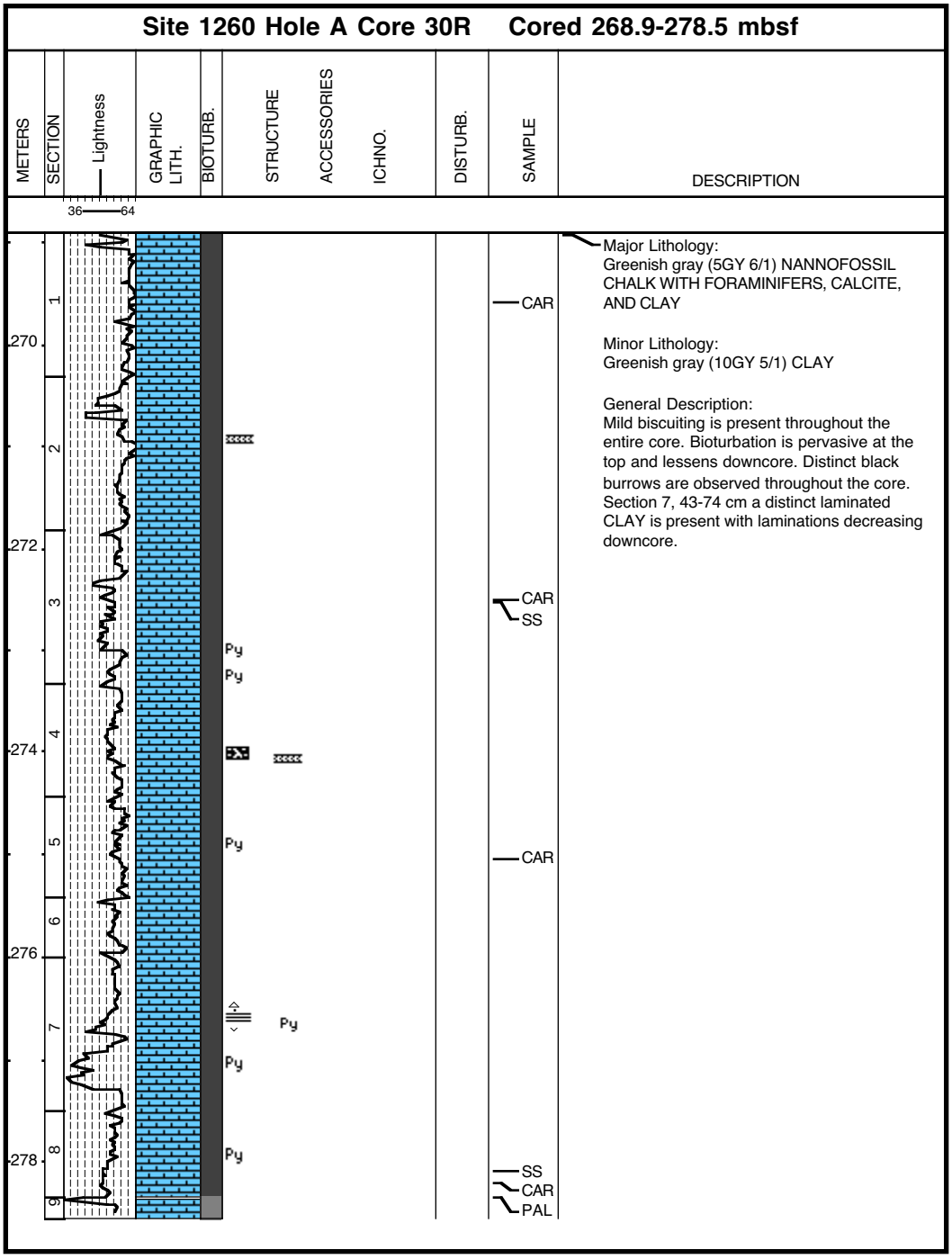
Core Photo


Site 1260 Hole A Core 28R Cored 249.6-259.2 mbsf
METERS
SECTION
Lightness
40
67
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
250
252
254
256
258
1
2
3
4
5
6
7
8
9
CAR
SS
CAR
CAR
CAR
PAL
Major Lithology:
Light greenish gray (10Y 8/1, 5GY 7/1)
CALCAREOUS NANNOFOSSIL CHALK WITH CLAY
General Description:
Fine mm-scale mottles are present throughout the entire core. Mild biscuiting is present in small intervals. Bioturbation is pervasive with rare Zoophycos burrows. The color changes to 10Y 8/1 in Section 1, at 19-21 cm.

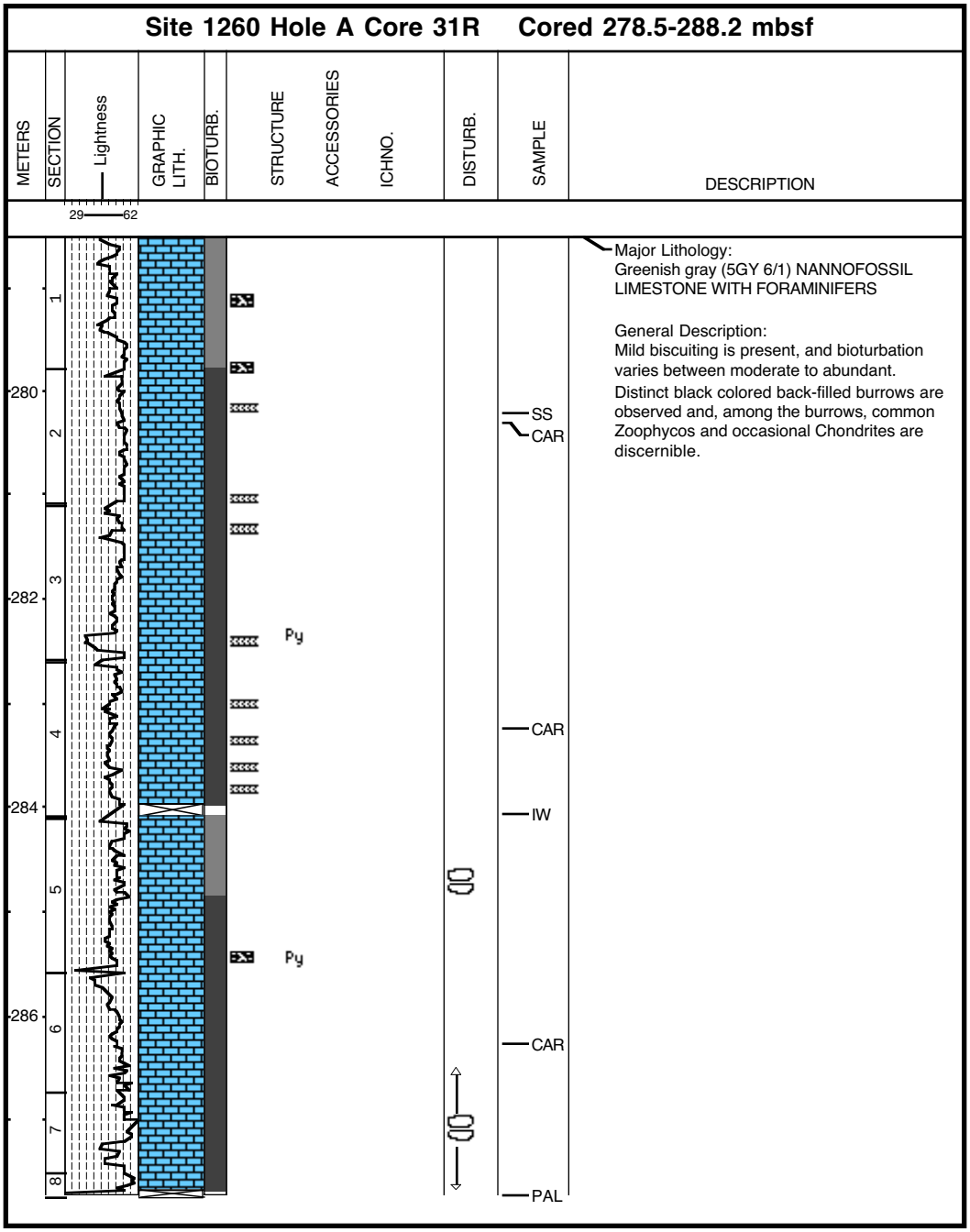
Core Photo


Site 1260 Hole A Core 29R Cored 259.2-268.9 mbsf
METERS
SECTION
Lighness
32
64
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
260
262
264
266
1
2
3
4
5
6
7
SS
CAR
IW
CAR
CAR
PAL
Major Lithology:
Light greenish gray (5GY 7/1) to greenish gray (5GY 6/1) CALCAREOUS NANNOFOSSIL CHALK WITH CLAY
General Description:
Moderate to heavy black and white mottling (mm-scale) is present with black streaks. In Section 4 and below, the color cycles between light greenish gray and greenish gray on a dm-scale. Mottles appear more pronounced downcore.

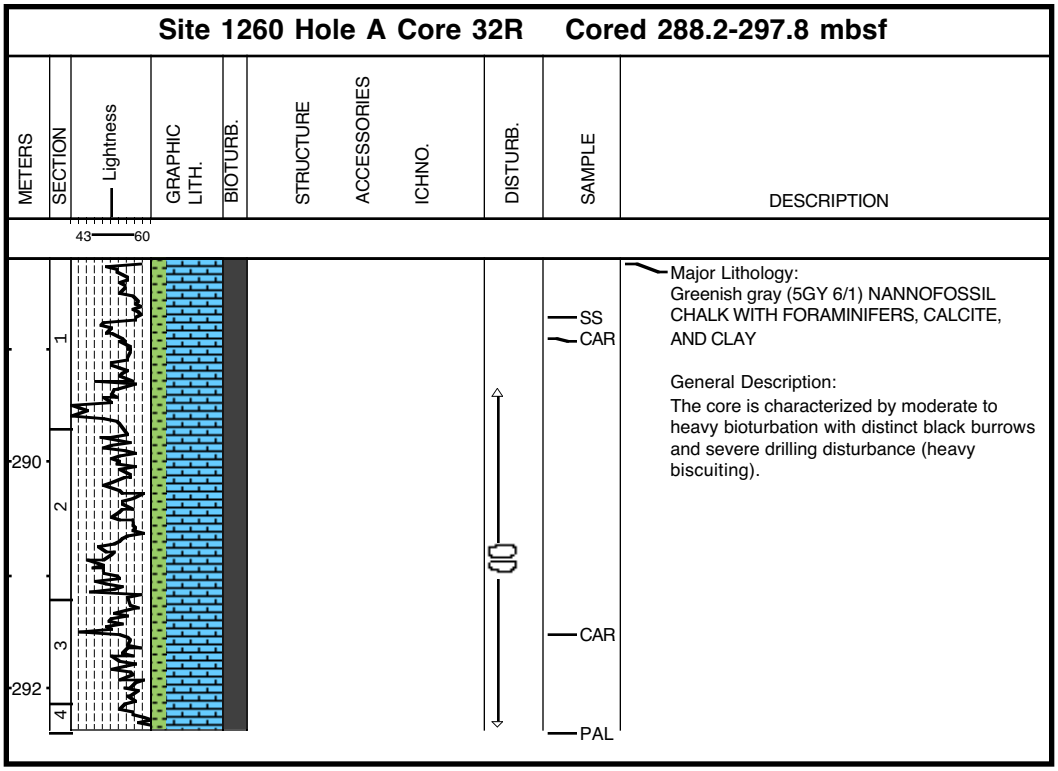
Core Photo


Site 1260 Hole A Core 30R Cored 268.9-278.5 mbsf
METERS
SECTION
Lightness
36
64
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
270
272
274
276
278
1
2
3
4
5
6
7
8
9
CAR
CAR
SS
CAR
SS
CAR
PAL
Py
Py
Py
Py
Py
Py
Major Lithology:
Greenish gray (5GY 6/1) NANNOFOSSIL CHALK WITH FORAMINIFERS, CALCITE, AND CLAY
Minor Lithology:
Greenish gray (10GY 5/1) CLAY
General Description:
Mild biscuiting is present throughout the entire core. Bioturbation is pervasive at the top and lessens downcore. Distinct black burrows are observed throughout the core. Section 7, 43-74 cm a distinct laminated CLAY is present with laminations decreasing downcore.

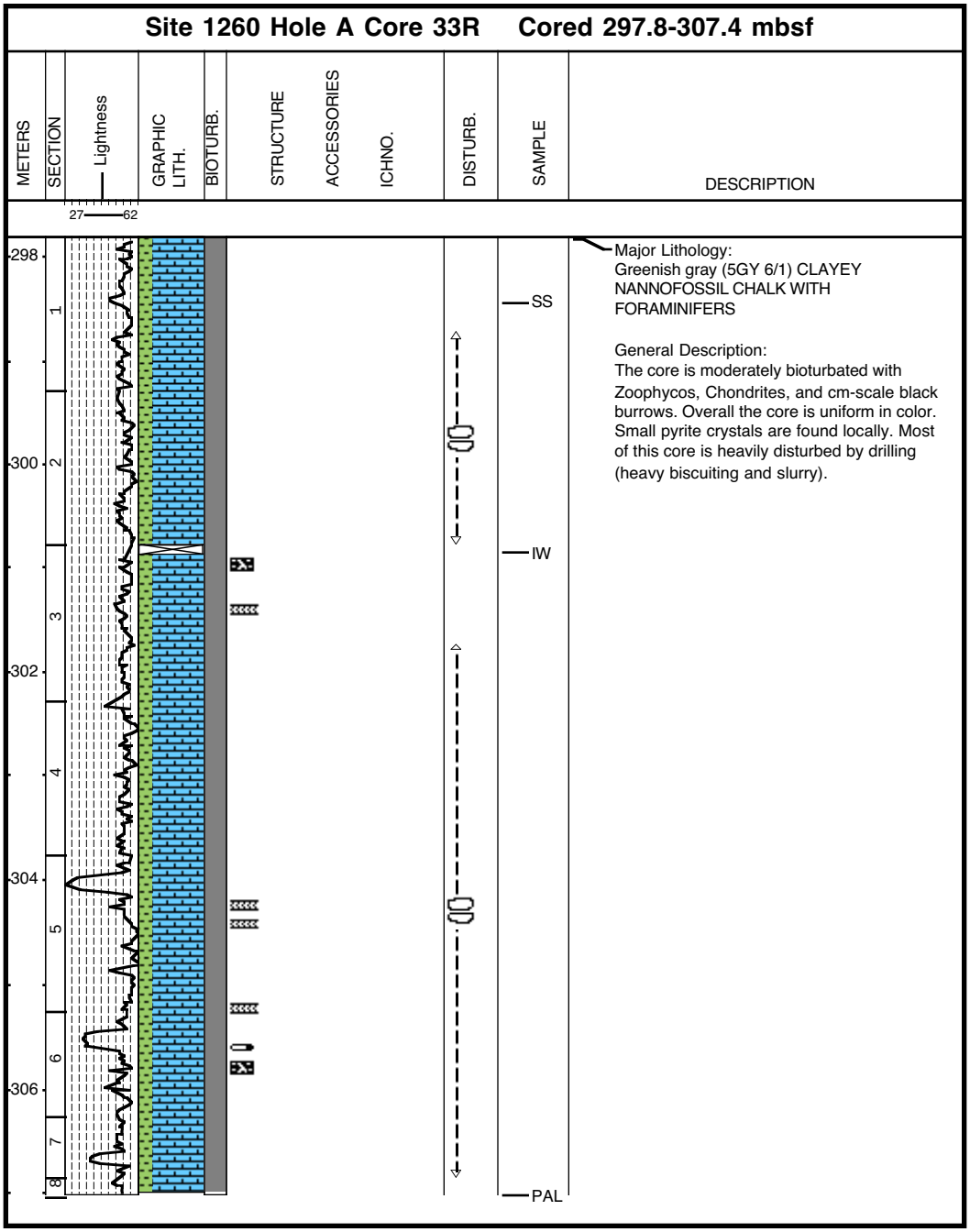
Core Photo


Site 1260 Hole A Core 31R Cored 278.5-288.2 mbsf
METERS
SECTION
Lightness
29
62
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
280
282
284
286
1
2
3
4
5
6
7
8
Py
Py
SS
CAR
CAR
IW
CAR
PAL
Major Lithology:
Greenish gray (5GY 6/1) NANNOFOSSIL LIMESTONE WITH FORAMINIFERS
General Description:
Mild biscuiting is present, and bioturbation varies between moderate to abundant.
Distinct black colored back-filled burrows are observed and, among the burrows, common Zoophycos and occasional Chondrites are discernible.

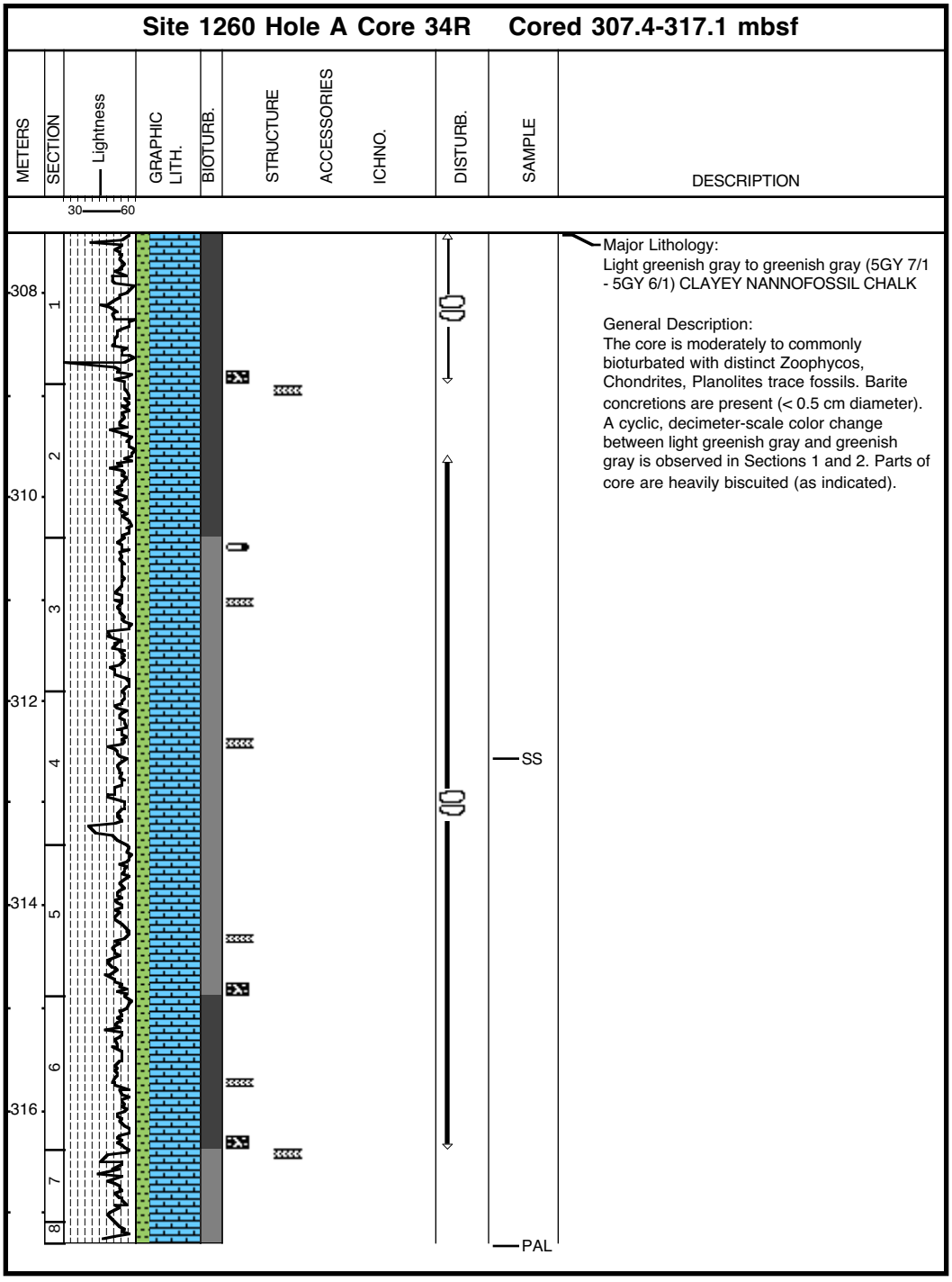
Core Photo


Site 1260 Hole A Core 32R Cored 288.2-297.8 mbsf
METERS
SECTION
Lightness
43
60
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
290
292
1
2
3
4
SS
CAR
CAR
PAL
Major Lithology:
Greenish gray (5GY 6/1) NANNOFOSSIL CHALK WITH FORAMINIFERS, CALCITE, AND CLAY
General Description:
The core is characterized by moderate to heavy bioturbation with distinct black burrows and severe drilling disturbance (heavy biscuiting).

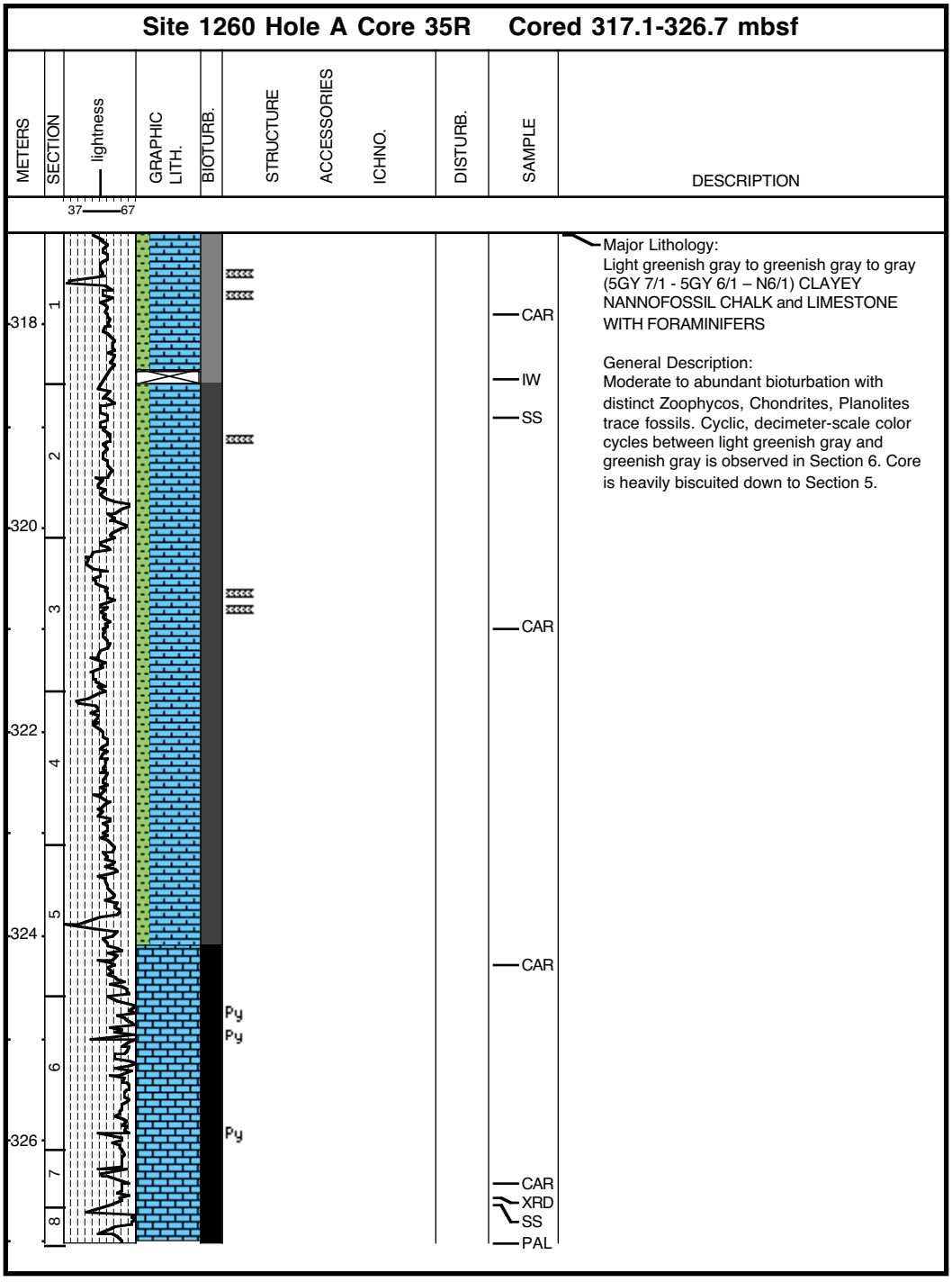
Core Photo


Site 1260 Hole A Core 33R Cored 297.8-307.4 mbsf
METERS
SECTION
Lightness
27
62
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
298
300
302
304
306
1
2
3
4
5
6
7
8
SS
IW
PAL
Major Lithology:
Greenish gray (5GY 6/1) CLAYEY NANNOFOSSIL CHALK WITH FORAMINIFERS
General Description:
The core is moderately bioturbated with Zoophycos, Chondrites, and cm-scale black burrows. Overall the core is uniform in color. Small pyrite crystals are found locally. Most of this core is heavily disturbed by drilling (heavy biscuiting and slurry).

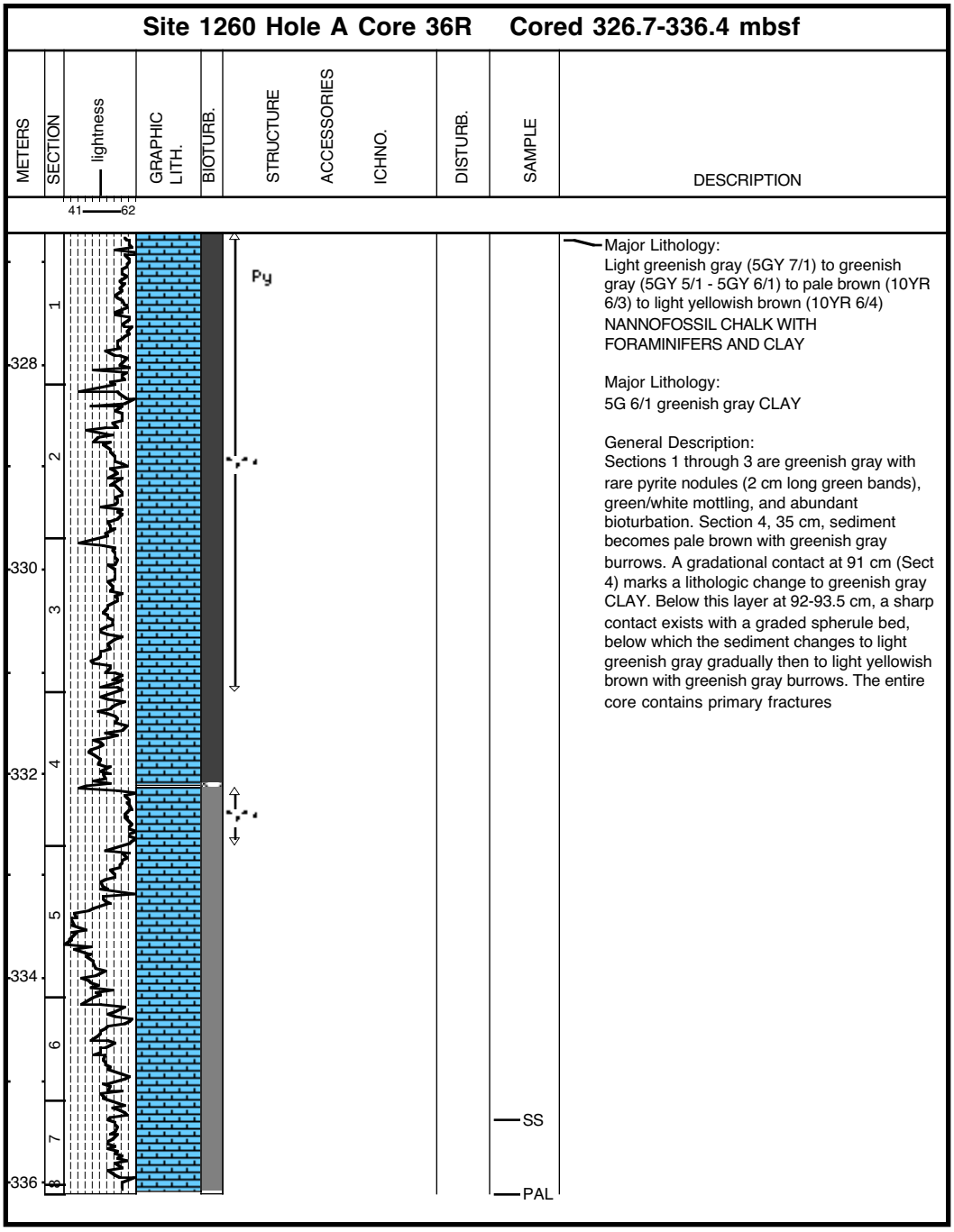
Core Photo


Site 1260 Hole A Core 34R Cored 307.4-317.1 mbsf
METERS
SECTION
Lightness
30
60
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
308
310
312
314
316
1
2
3
4
5
6
7
8
SS
PAL
Major Lithology:
Light greenish gray to greenish gray (5GY 7/1 - 5GY 6/1) CLAYEY NANNOFOSSIL CHALK
General Description:
The core is moderately to commonly bioturbated with distinct Zoophycos, Chondrites, Planolites trace fossils. Barite concretions are present (< 0.5 cm diameter). A cyclic, decimeter-scale color change between light greenish gray and greenish gray is observed in Sections 1 and 2. Parts of core are heavily biscuited (as indicated).

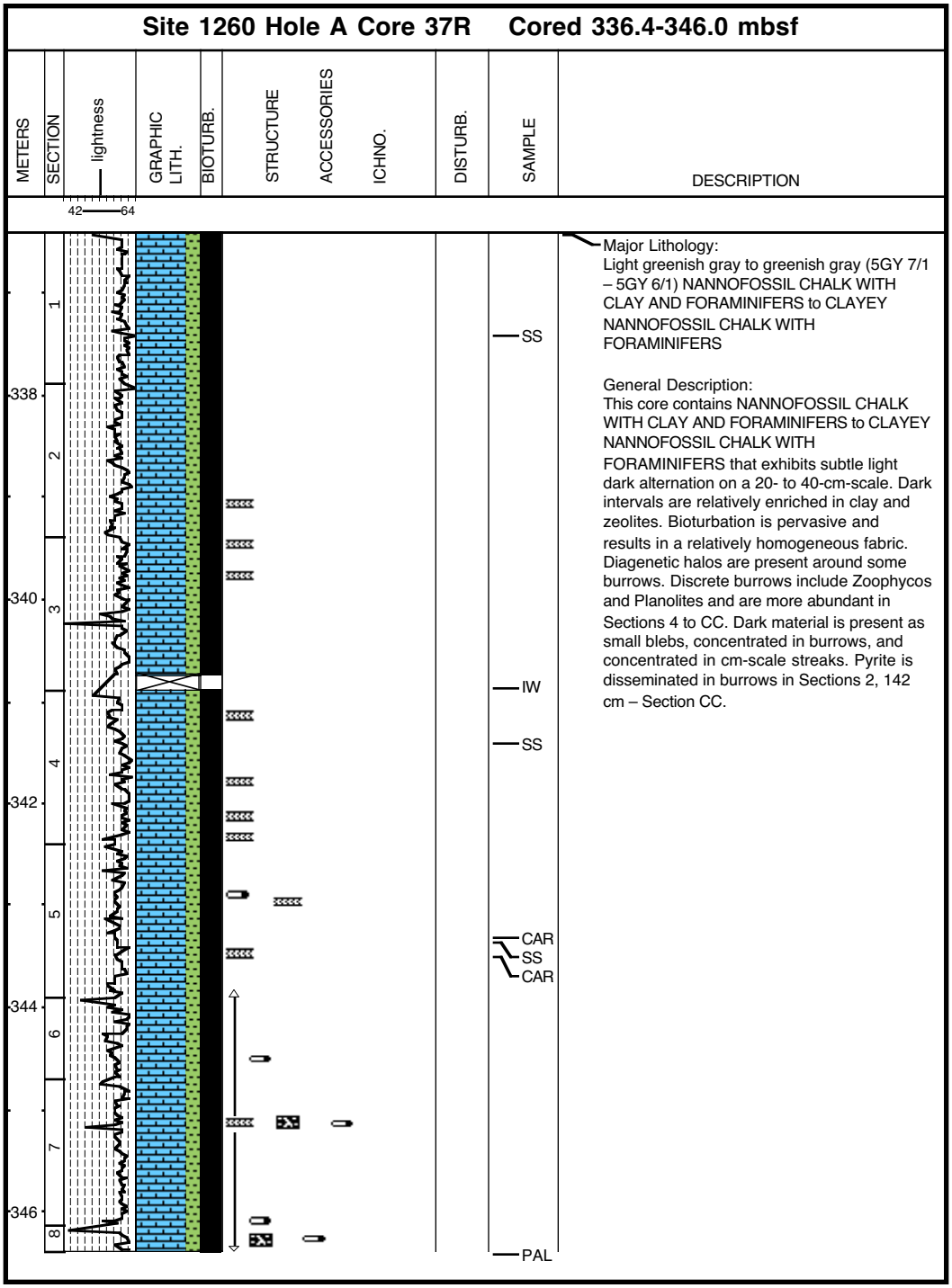
Core Photo


Site 1260 Hole A Core 35R Cored 317.1-326.7 mbsf
METERS
SECTION
lightness
37
67
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
318
320
322
324
326
1
2
3
4
5
6
7
8
CAR
IW
SS
CAR
CAR
CAR
XRD
SS
PAL
Py
Py
Py
Major Lithology:
Light greenish gray to greenish gray to gray (5GY 7/1 - 5GY 6/1 – N6/1) CLAYEY NANNOFOSSIL CHALK and LIMESTONE WITH FORAMINIFERS
General Description:
Moderate to abundant bioturbation with distinct Zoophycos, Chondrites, Planolites trace fossils. Cyclic, decimeter-scale color cycles between light greenish gray and greenish gray is observed in Section 6. Core is heavily biscuited down to Section 5.

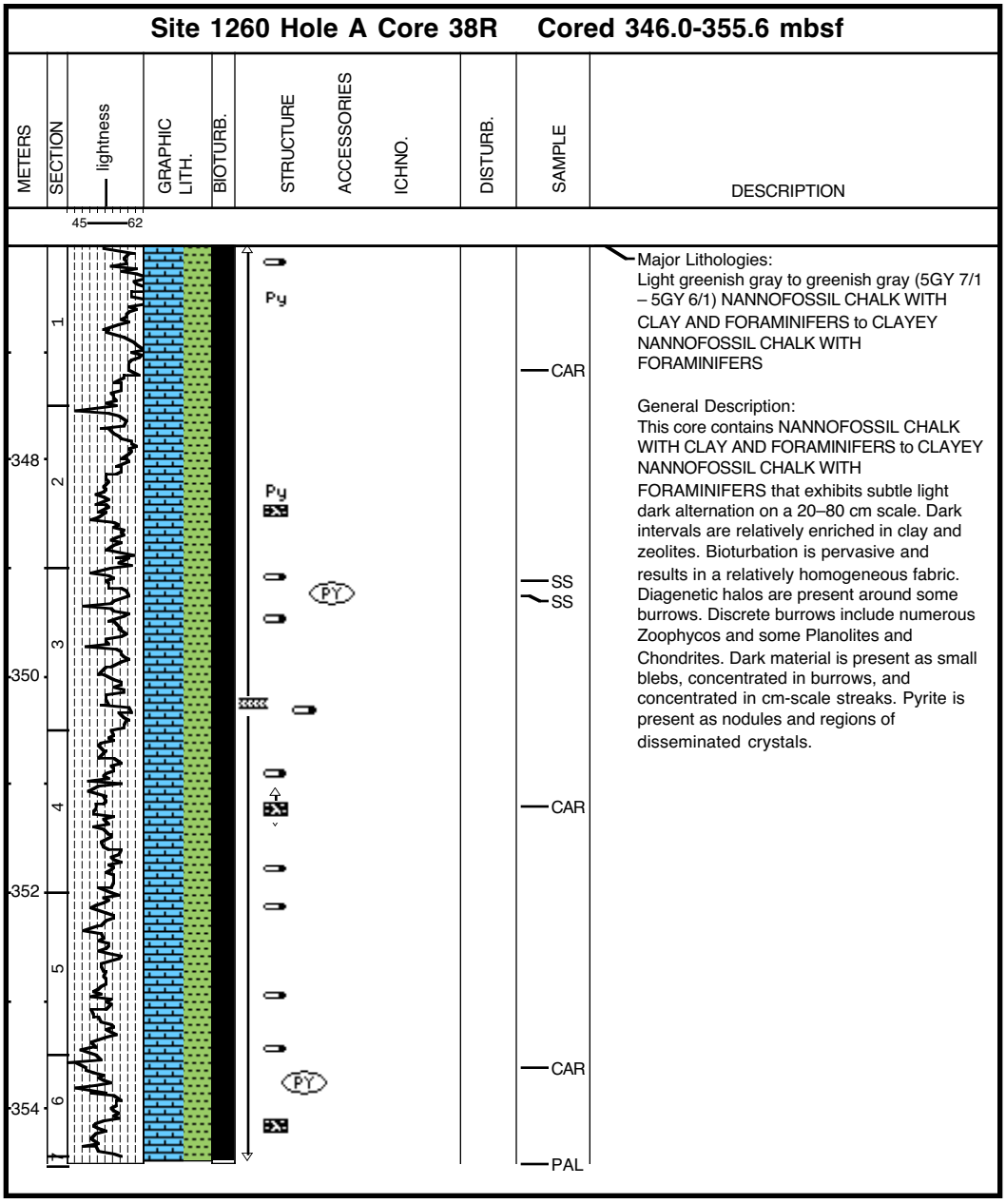
Core Photo


Site 1260 Hole A Core 36R Cored 326.7-336.4 mbsf
METERS
SECTION
lightness
41
62
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
328
330
332
334
336
1
2
3
4
5
6
7
Py
SS
PAL
Major Lithology:
Light greenish gray (5GY 7/1) to greenish gray (5GY 5/1 - 5GY 6/1) to pale brown (10YR 6/3) to light yellowish brown (10YR 6/4) NANNOFOSSIL CHALK WITH FORAMINIFERS AND CLAY
Major Lithology:
5G 6/1 greenish gray CLAY
General Description:
Sections 1 through 3 are greenish gray with rare pyrite nodules (2 cm long green bands), green/white mottling, and abundant bioturbation. Section 4, 35 cm, sediment becomes pale brown with greenish gray burrows. A gradational contact at 91 cm (Sect 4) marks a lithologic change to greenish gray CLAY. Below this layer at 92-93.5 cm, a sharp contact exists with a graded spherule bed, below which the sediment changes to light greenish gray gradually then to light yellowish brown with greenish gray burrows. The entire core contains primary fractures

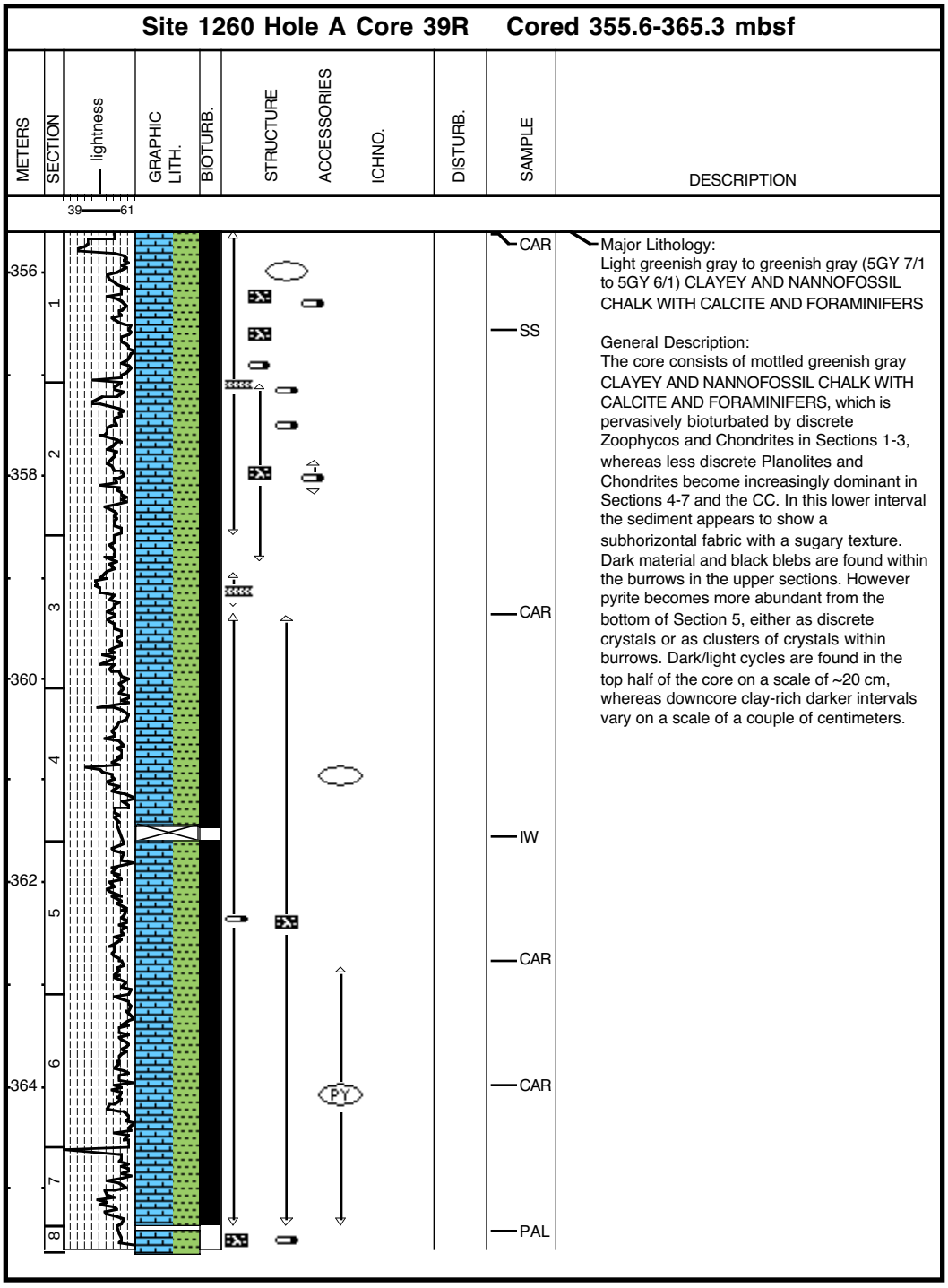
Core Photo


Site 1260 Hole A Core 37R Cored 336.4-346.0 mbsf
METERS
SECTION
lightness
42
64
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
338
340
342
344
346
1
2
3
4
5
6
7
8
SS
IW
SS
CAR
SS
CAR
PAL
Major Lithology:
Light greenish gray to greenish gray (5GY 7/1 – 5GY 6/1) NANNOFOSSIL CHALK WITH CLAY AND FORAMINIFERS to CLAYEY NANNOFOSSIL CHALK WITH FORAMINIFERS
General Description:
This core contains NANNOFOSSIL CHALK WITH CLAY AND FORAMINIFERS to CLAYEY NANNOFOSSIL CHALK WITH FORAMINIFERS that exhibits subtle light dark alternation on a 20- to 40-cm-scale. Dark intervals are relatively enriched in clay and zeolites. Bioturbation is pervasive and results in a relatively homogeneous fabric. Diagenetic halos are present around some burrows. Discrete burrows include Zoophycos and Planolites and are more abundant in Sections 4 to CC. Dark material is present as small blebs, concentrated in burrows, and concentrated in cm-scale streaks. Pyrite is disseminated in burrows in Sections 2, 142 cm – Section CC.

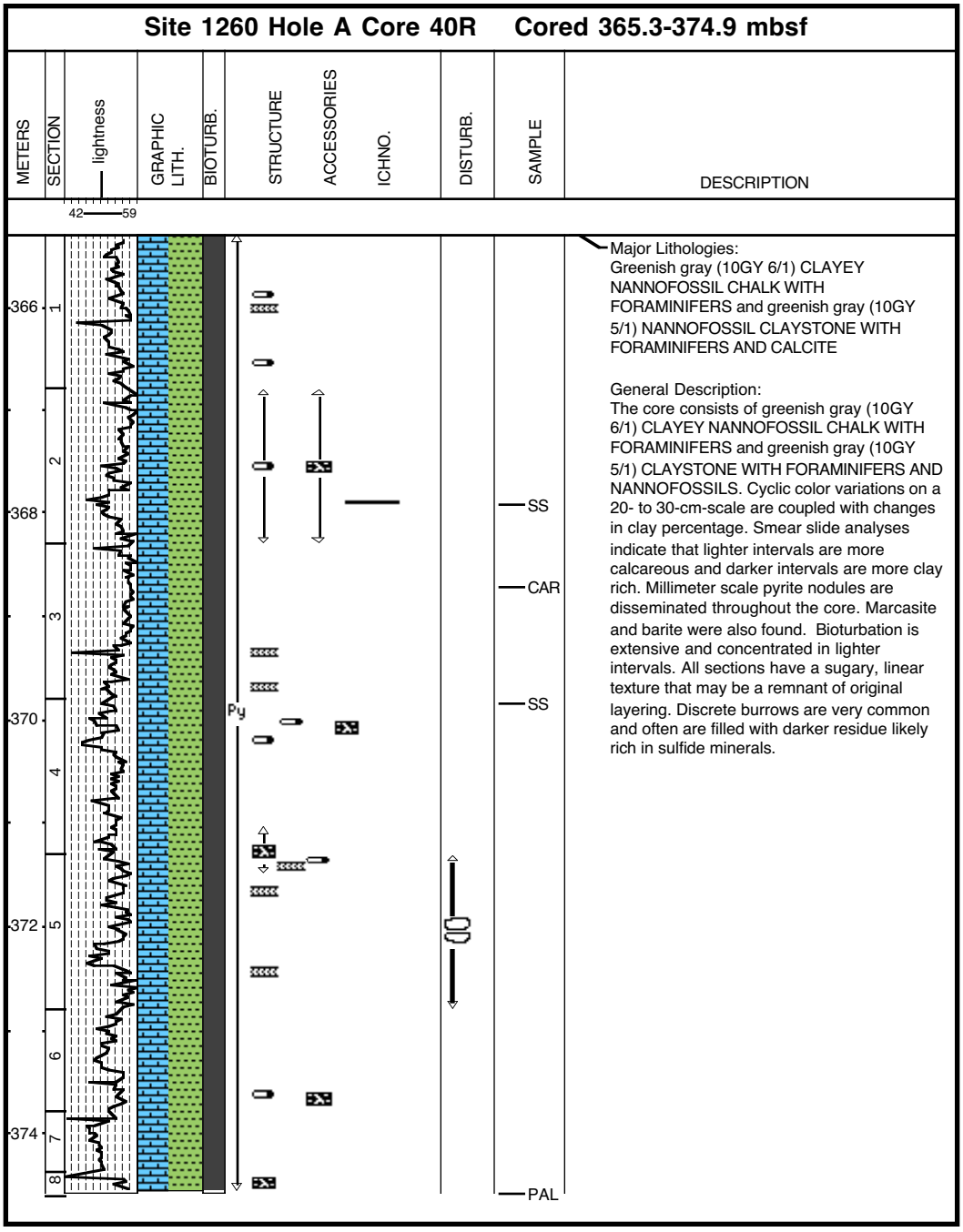
Core Photo


Site 1260 Hole A Core 38R Cored 346.0-355.6 mbsf
METERS
SECTION
lightness
45
62
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
348
350
352
354
1
2
3
4
5
6
Py
Py
PY
PY
CAR
SS
SS
CAR
CAR
PAL
Major Lithologies:
Light greenish gray to greenish gray (5GY 7/1 – 5GY 6/1) NANNOFOSSIL CHALK WITH CLAY AND FORAMINIFERS to CLAYEY NANNOFOSSIL CHALK WITH FORAMINIFERS
General Description:
This core contains NANNOFOSSIL CHALK WITH CLAY AND FORAMINIFERS to CLAYEY NANNOFOSSIL CHALK WITH FORAMINIFERS that exhibits subtle light dark alternation on a 20–80 cm scale. Dark intervals are relatively enriched in clay and zeolites. Bioturbation is pervasive and results in a relatively homogeneous fabric. Diagenetic halos are present around some burrows. Discrete burrows include numerous Zoophycos and some Planolites and Chondrites. Dark material is present as small blebs, concentrated in burrows, and concentrated in cm-scale streaks. Pyrite is present as nodules and regions of disseminated crystals.

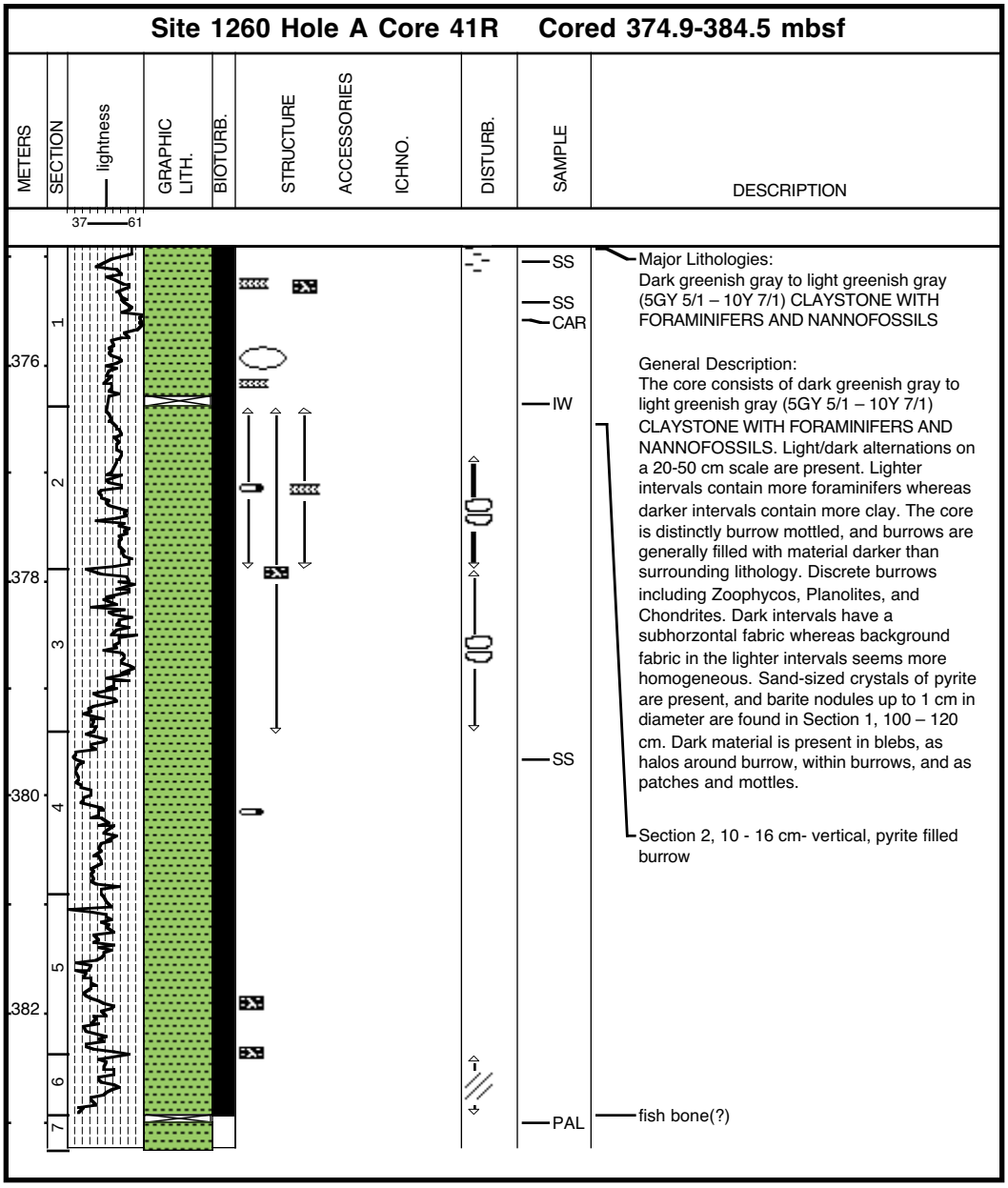
Core Photo


Site 1260 Hole A Core 39R Cored 355.6-365.3 mbsf
METERS
SECTION
lightness
39
61
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
356
358
360
362
364
1
2
3
4
5
6
7
8
CAR
SS
CAR
IW
CAR
CAR
PAL
PY
Major Lithology:
Light greenish gray to greenish gray (5GY 7/1 to 5GY 6/1) CLAYEY AND NANNOFOSSIL CHALK WITH CALCITE AND FORAMINIFERS
General Description:
The core consists of mottled greenish gray CLAYEY AND NANNOFOSSIL CHALK WITH CALCITE AND FORAMINIFERS, which is pervasively bioturbated by discrete Zoophycos and Chondrites in Sections 1-3, whereas less discrete Planolites and Chondrites become increasingly dominant in Sections 4-7 and the CC. In this lower interval the sediment appears to show a subhorizontal fabric with a sugary texture. Dark material and black blebs are found within the burrows in the upper sections. However pyrite becomes more abundant from the bottom of Section 5, either as discrete crystals or as clusters of crystals within burrows. Dark/light cycles are found in the top half of the core on a scale of ~20 cm, whereas downcore clay-rich darker intervals vary on a scale of a couple of centimeters.

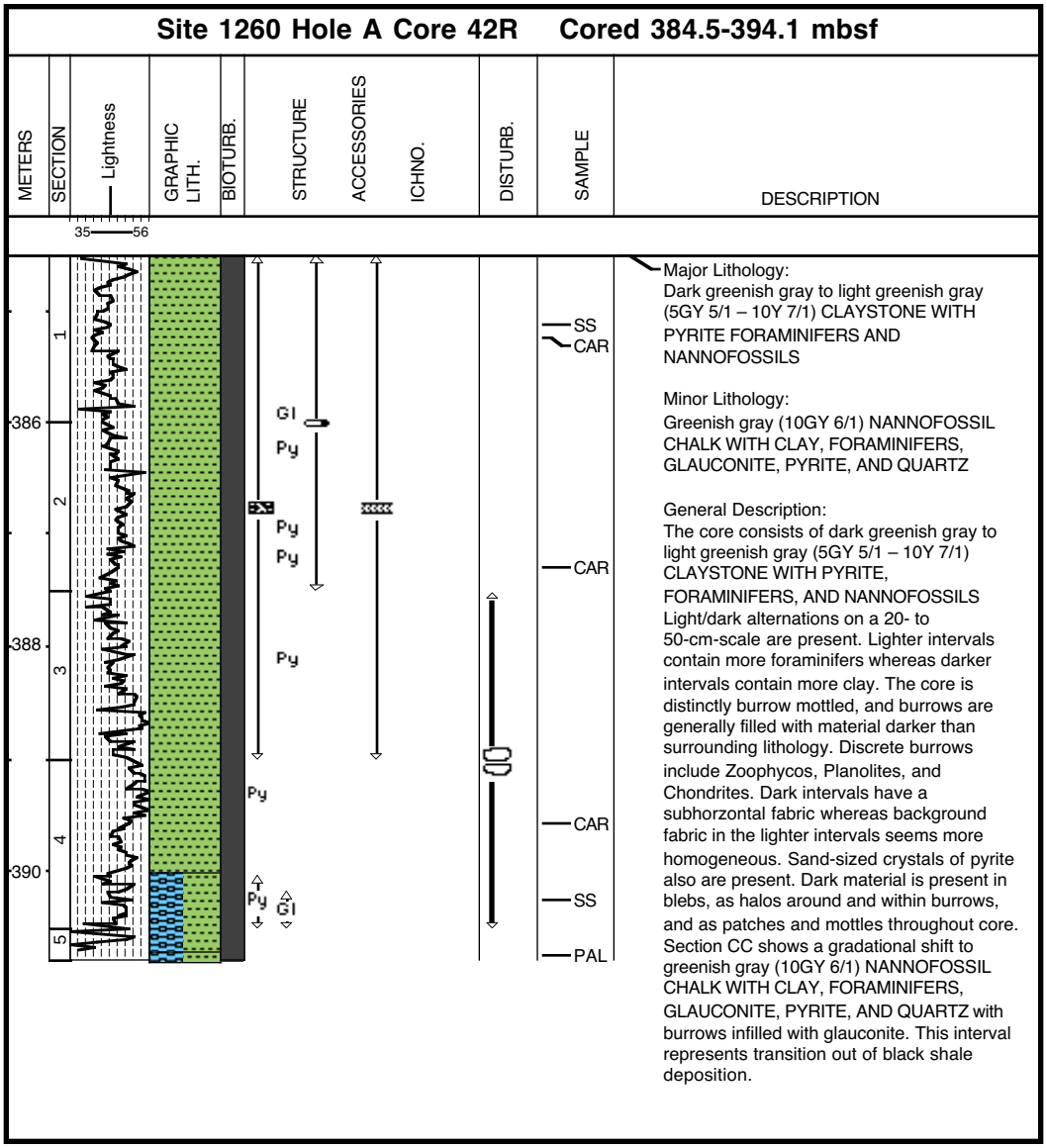
Core Photo


Site 1260 Hole A Core 40R Cored 365.3-374.9 mbsf
METERS
SECTION
lightness
42
59
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
366
368
370
372
374
1
2
3
4
5
6
7
8
Py
SS
CAR
SS
PAL
Major Lithologies:
Greenish gray (10GY 6/1) CLAYEY NANNOFOSSIL CHALK WITH FORAMINIFERS and greenish gray (10GY 5/1) NANNOFOSSIL CLAYSTONE WITH FORAMINIFERS AND CALCITE
General Description:
The core consists of greenish gray (10GY 6/1) CLAYEY NANNOFOSSIL CHALK WITH FORAMINIFERS and greenish gray (10GY 5/1) CLAYSTONE WITH FORAMINIFERS AND NANNOFOSSILS. Cyclic color variations on a 20- to 30-cm-scale are coupled with changes in clay percentage. Smear slide analyses indicate that lighter intervals are more calcareous and darker intervals are more clay rich. Millimeter scale pyrite nodules are disseminated throughout the core. Marcasite and barite were also found. Bioturbation is extensive and concentrated in lighter intervals. All sections have a sugary, linear texture that may be a remnant of original layering. Discrete burrows are very common and often are filled with darker residue likely rich in sulfide minerals.

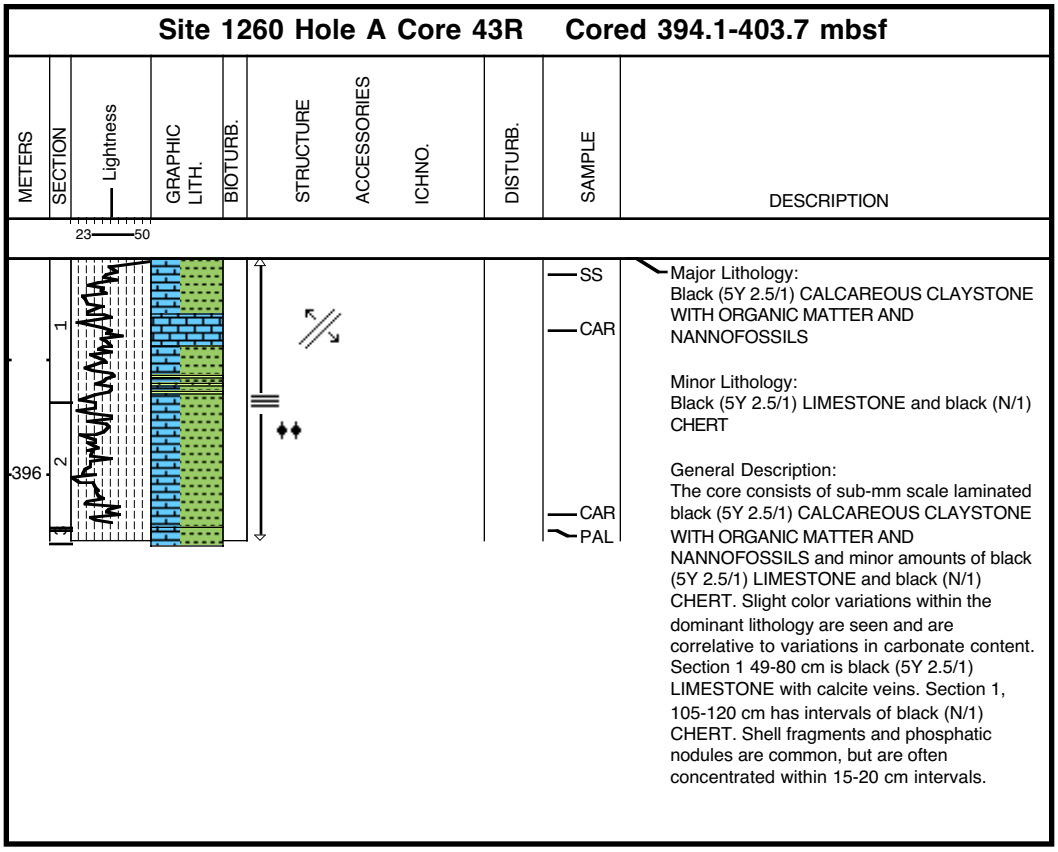
Core Photo


Site 1260 Hole A Core 41R Cored 374.9-384.5 mbsf
METERS
SECTION
lightness
37
61
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
376
378
380
382
1
2
3
4
5
6
7
SS
SS
CAR
IW
SS
PAL
Major Lithologies:
Dark greenish gray to light greenish gray (5GY 5/1 – 10Y 7/1) CLAYSTONE WITH FORAMINIFERS AND NANNOFOSSILS
General Description:
The core consists of dark greenish gray to light greenish gray (5GY 5/1 – 10Y 7/1) CLAYSTONE WITH FORAMINIFERS AND NANNOFOSSILS. Light/dark alternations on a 20-50 cm scale are present. Lighter intervals contain more foraminifers whereas darker intervals contain more clay. The core is distinctly burrow mottled, and burrows are generally filled with material darker than surrounding lithology. Discrete burrows including Zoophycos, Planolites, and Chondrites. Dark intervals have a subhorzontal fabric whereas background fabric in the lighter intervals seems more homogeneous. Sand-sized crystals of pyrite are present, and barite nodules up to 1 cm in diameter are found in Section 1, 100 – 120 cm. Dark material is present in blebs, as halos around burrow, within burrows, and as patches and mottles.
Section 2, 10 - 16 cm- vertical, pyrite filled burrow
fish bone(?)

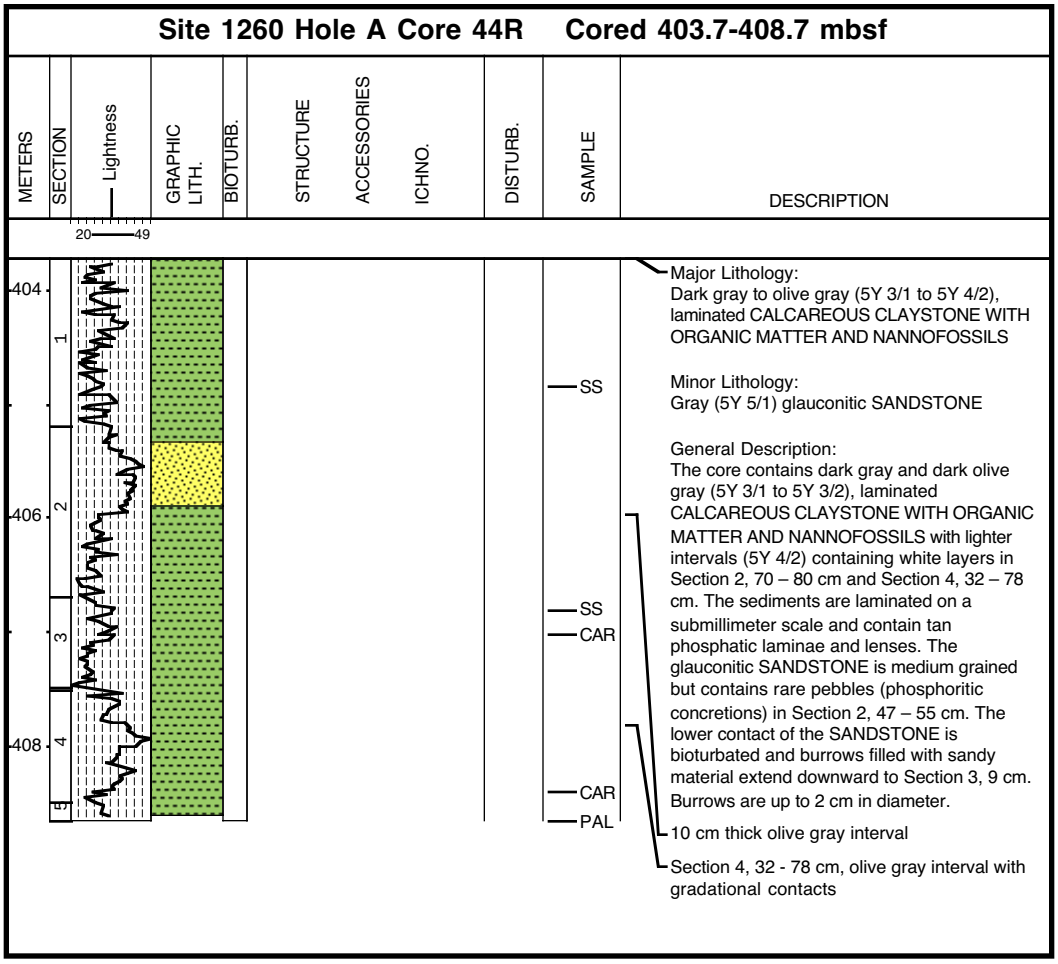
Core Photo


Site 1260 Hole A Core 42R Cored 384.5-394.1 mbsf
METERS
SECTION
Lightness
35
56
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
386
388
390
1
2
3
4
5
Gl
Py
Py
Py
Py
Py
Gl
SS
CAR
CAR
CAR
SS
PAL
Major Lithology:
Dark greenish gray to light greenish gray (5GY 5/1 – 10Y 7/1) CLAYSTONE WITH PYRITE FORAMINIFERS AND NANNOFOSSILS
Minor Lithology:
Greenish gray (10GY 6/1) NANNOFOSSIL CHALK WITH CLAY, FORAMINIFERS, GLAUCONITE, PYRITE, AND QUARTZ
General Description:
The core consists of dark greenish gray to light greenish gray (5GY 5/1 – 10Y 7/1) CLAYSTONE WITH PYRITE, FORAMINIFERS, AND NANNOFOSSILS Light/dark alternations on a 20- to 50-cm-scale are present. Lighter intervals contain more foraminifers whereas darker intervals contain more clay. The core is distinctly burrow mottled, and burrows are generally filled with material darker than surrounding lithology. Discrete burrows include Zoophycos, Planolites, and Chondrites. Dark intervals have a subhorzontal fabric whereas background fabric in the lighter intervals seems more homogeneous. Sand-sized crystals of pyrite also are present. Dark material is present in blebs, as halos around and within burrows, and as patches and mottles throughout core. Section CC shows a gradational shift to greenish gray (10GY 6/1) NANNOFOSSIL CHALK WITH CLAY, FORAMINIFERS, GLAUCONITE, PYRITE, AND QUARTZ with burrows infilled with glauconite. This interval represents transition out of black shale deposition.

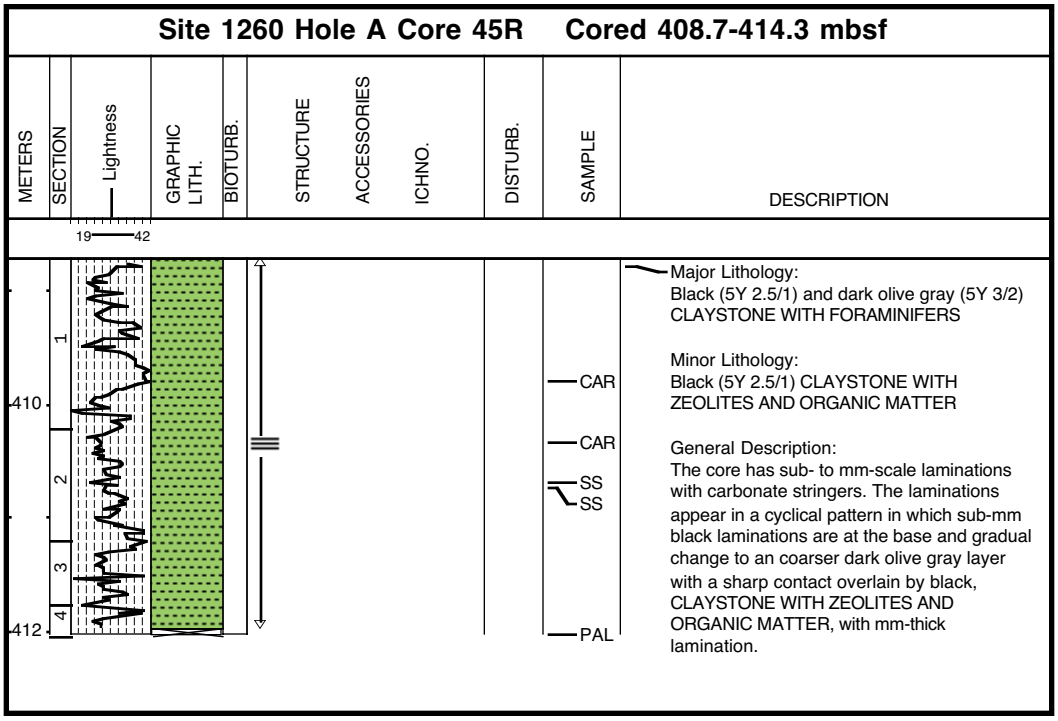
Core Photo


Site 1260 Hole A Core 43R Cored 394.1-403.7 mbsf
METERS
SECTION
Lightness
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
23
50
396
1
2
SS
CAR
CAR
PAL
Major Lithology:
Black (5Y 2.5/1) CALCAREOUS CLAYSTONE WITH ORGANIC MATTER AND NANNOFOSSILS
Minor Lithology:
Black (5Y 2.5/1) LIMESTONE and black (N/1) CHERT
General Description:
The core consists of sub-mm scale laminated black (5Y 2.5/1) CALCAREOUS CLAYSTONE WITH ORGANIC MATTER AND NANNOFOSSILS and minor amounts of black (5Y 2.5/1) LIMESTONE and black (N/1) CHERT. Slight color variations within the dominant lithology are seen and are correlative to variations in carbonate content. Section 1 49-80 cm is black (5Y 2.5/1) LIMESTONE with calcite veins. Section 1, 105-120 cm has intervals of black (N/1) CHERT. Shell fragments and phosphatic nodules are common, but are often concentrated within 15-20 cm intervals.

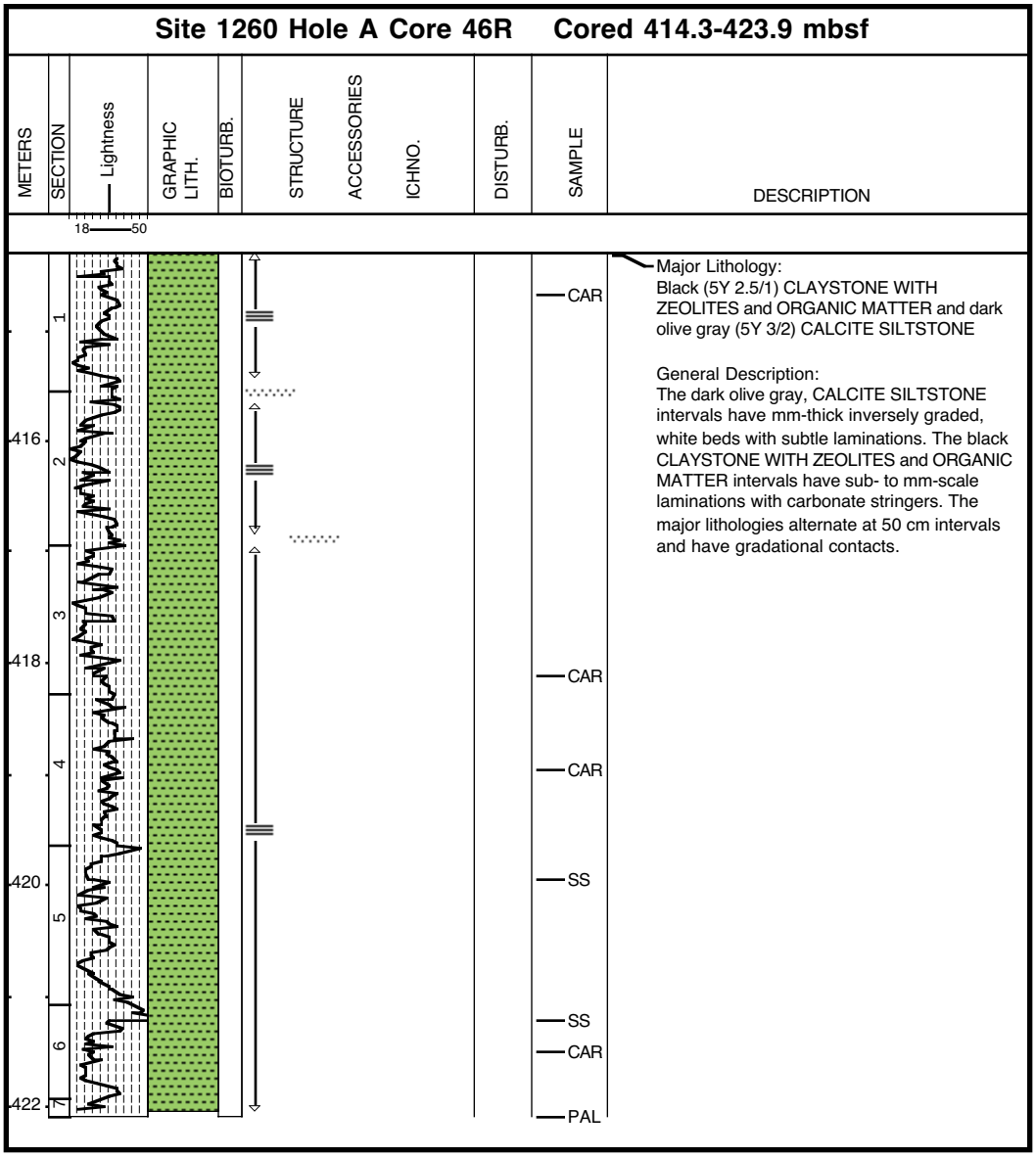
Core Photo


Site 1260 Hole A Core 44R Cored 403.7-408.7 mbsf
METERS
SECTION
Lightness
20
49
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
404
406
408
1
2
3
4
CC
SS
SS
CAR
CAR
PAL
Major Lithology:
Dark gray to olive gray (5Y 3/1 to 5Y 4/2), laminated CALCAREOUS CLAYSTONE WITH ORGANIC MATTER AND NANNOFOSSILS
Minor Lithology:
Gray (5Y 5/1) glauconitic SANDSTONE
General Description:
The core contains dark gray and dark olive gray (5Y 3/1 to 5Y 3/2), laminated CALCAREOUS CLAYSTONE WITH ORGANIC MATTER AND NANNOFOSSILS with lighter intervals (5Y 4/2) containing white layers in Section 2, 70 – 80 cm and Section 4, 32 – 78 cm. The sediments are laminated on a submillimeter scale and contain tan phosphatic laminae and lenses. The glauconitic SANDSTONE is medium grained but contains rare pebbles (phosphoritic concretions) in Section 2, 47 – 55 cm. The lower contact of the SANDSTONE is bioturbated and burrows filled with sandy material extend downward to Section 3, 9 cm. Burrows are up to 2 cm in diameter.
10 cm thick olive gray interval
Section 4, 32 - 78 cm, olive gray interval with gradational contacts

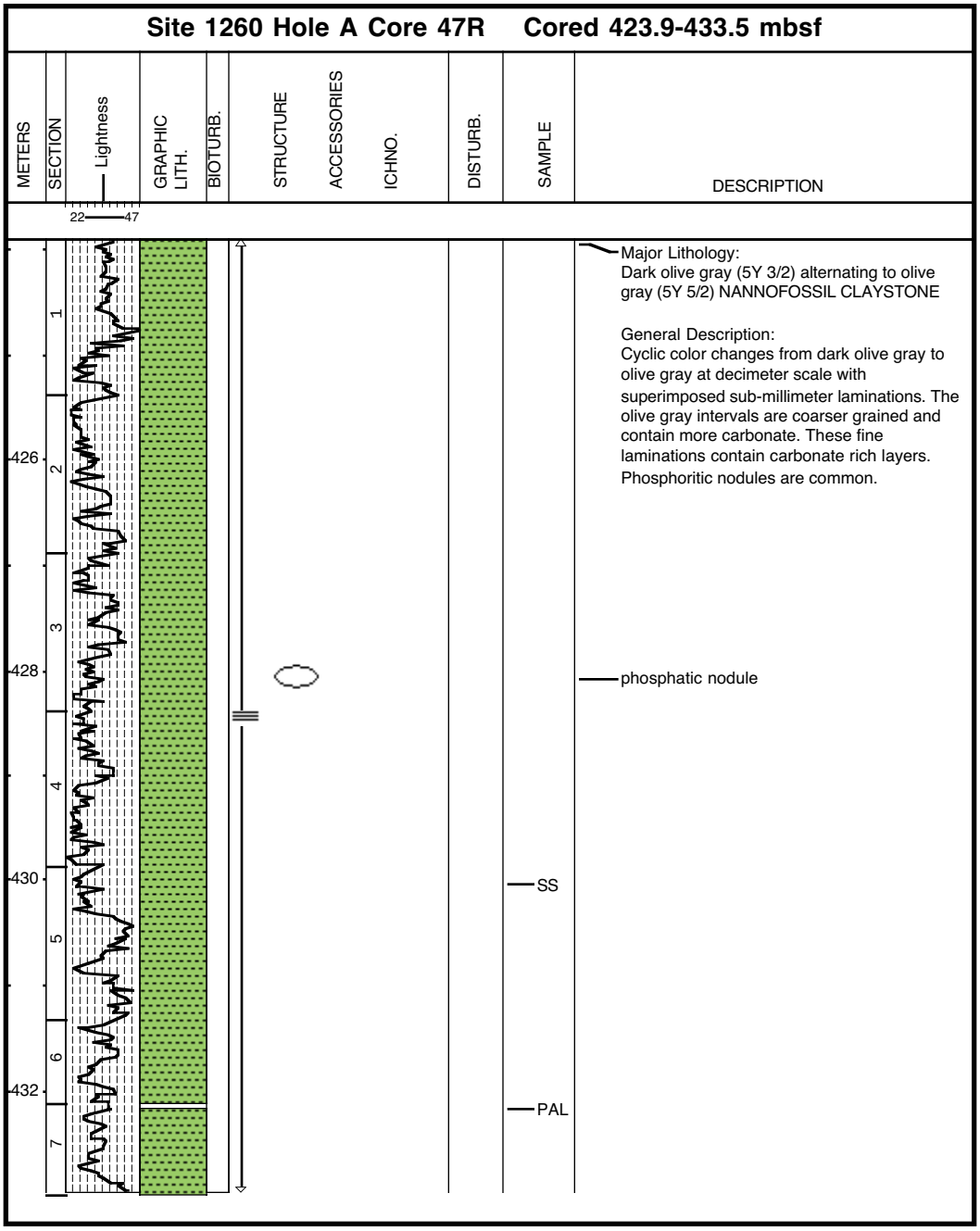
Core Photo


Site 1260 Hole A Core 45R Cored 408.7-414.3 mbsf
METERS
SECTION
Lightness
19
42
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
410
412
1
2
3
4
CAR
CAR
SS
SS
PAL
Major Lithology:
Black (5Y 2.5/1) and dark olive gray (5Y 3/2) CLAYSTONE WITH FORAMINIFERS
Minor Lithology:
Black (5Y 2.5/1) CLAYSTONE WITH ZEOLITES AND ORGANIC MATTER
General Description:
The core has sub- to mm-scale laminations with carbonate stringers. The laminations appear in a cyclical pattern in which sub-mm black laminations are at the base and gradual change to an coarser dark olive gray layer with a sharp contact overlain by black, CLAYSTONE WITH ZEOLITES AND ORGANIC MATTER, with mm-thick lamination.

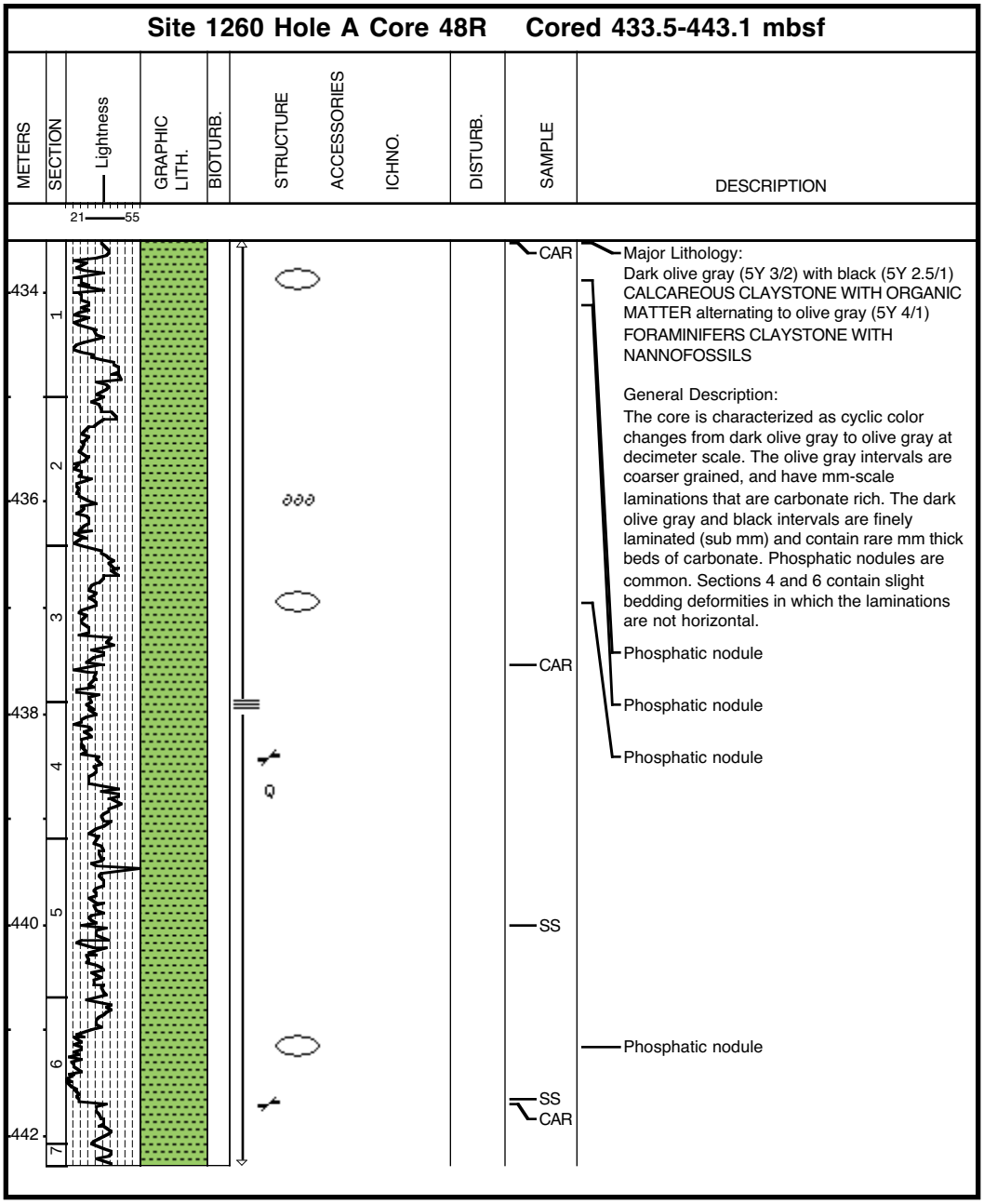
Core Photo


Site 1260 Hole A Core 46R Cored 414.3-423.9 mbsf
METERS
SECTION
Lightness
18
50
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
416
418
420
422
1
2
3
4
5
6
7
CAR
CAR
CAR
SS
SS
CAR
PAL
Major Lithology:
Black (5Y 2.5/1) CLAYSTONE WITH ZEOLITES and ORGANIC MATTER and dark olive gray (5Y 3/2) CALCITE SILTSTONE
General Description:
The dark olive gray, CALCITE SILTSTONE intervals have mm-thick inversely graded, white beds with subtle laminations. The black CLAYSTONE WITH ZEOLITES and ORGANIC MATTER intervals have sub- to mm-scale laminations with carbonate stringers. The major lithologies alternate at 50 cm intervals and have gradational contacts.

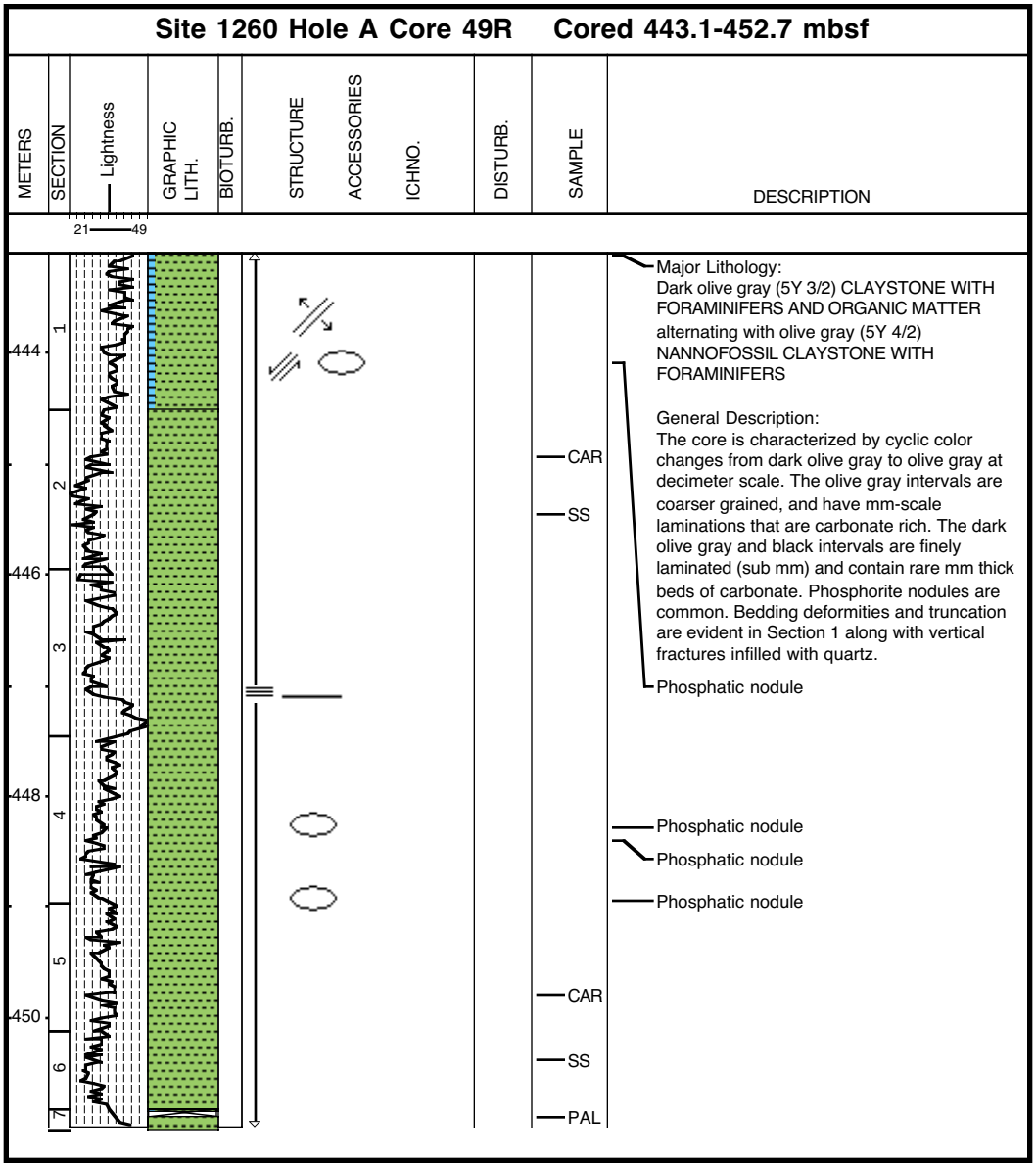
Core Photo


Site 1260 Hole A Core 47R Cored 423.9-433.5 mbsf
METERS
SECTION
Lightness
22
47
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
426
428
430
432
1
2
3
4
5
6
7
Major Lithology:
Dark olive gray (5Y 3/2) alternating to olive gray (5Y 5/2) NANNOFOSSIL CLAYSTONE
General Description:
Cyclic color changes from dark olive gray to olive gray at decimeter scale with superimposed sub-millimeter laminations. The olive gray intervals are coarser grained and contain more carbonate. These fine laminations contain carbonate rich layers. Phosphoritic nodules are common.
phosphatic nodule
SS
PAL

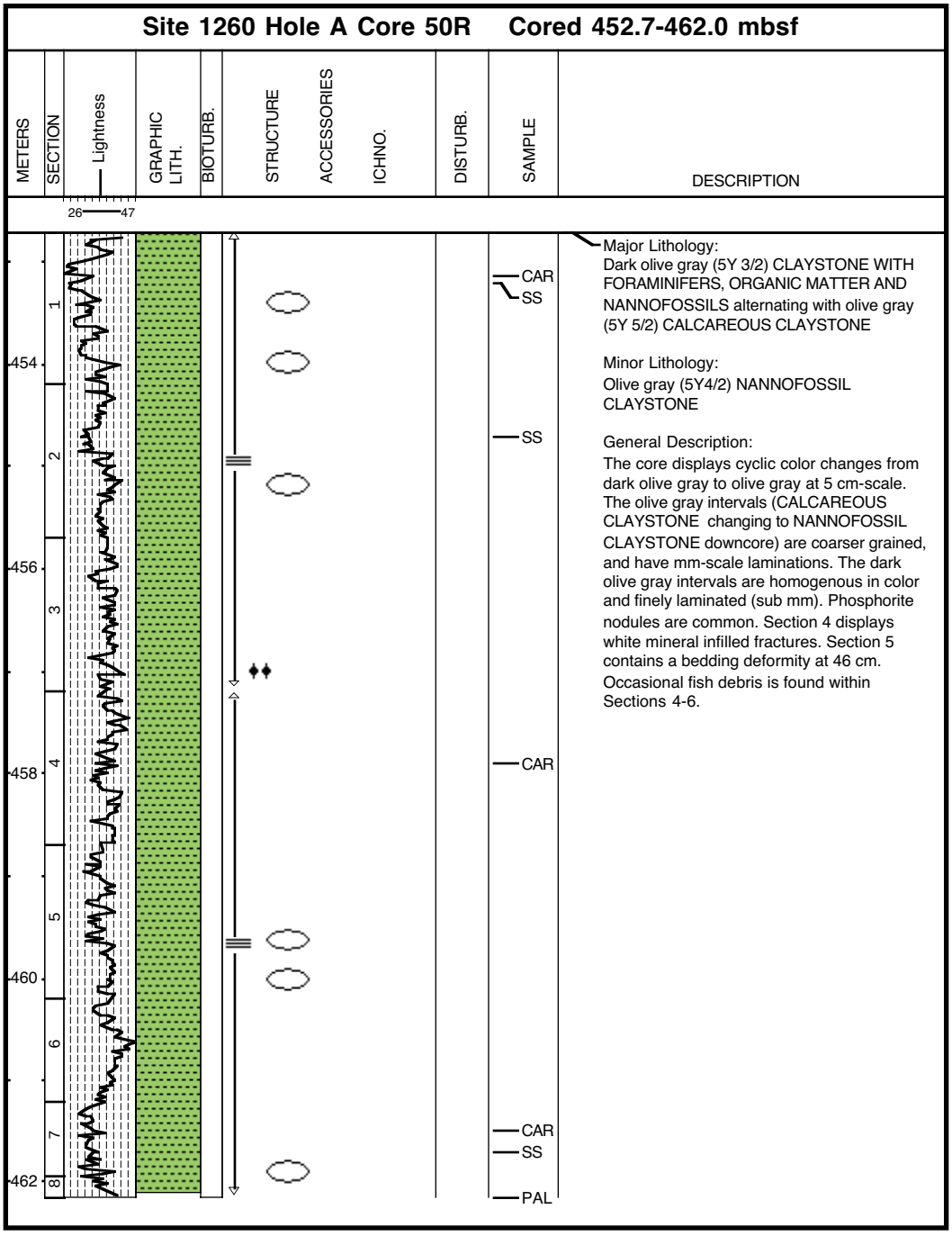
Core Photo


Site 1260 Hole A Core 48R Cored 433.5-443.1 mbsf
METERS
SECTION
Lightness
21
55
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
434
436
438
440
442
1
2
3
4
5
6
7
CAR
CAR
SS
SS
CAR
Major Lithology:
Dark olive gray (5Y 3/2) with black (5Y 2.5/1) CALCAREOUS CLAYSTONE WITH ORGANIC MATTER alternating to olive gray (5Y 4/1) FORAMINIFERS CLAYSTONE WITH NANNOFOSSILS
General Description:
The core is characterized as cyclic color changes from dark olive gray to olive gray at decimeter scale. The olive gray intervals are coarser grained, and have mm-scale laminations that are carbonate rich. The dark olive gray and black intervals are finely laminated (sub mm) and contain rare mm thick beds of carbonate. Phosphatic nodules are common. Sections 4 and 6 contain slight bedding deformities in which the laminations are not horizontal.
Phosphatic nodule
Phosphatic nodule
Phosphatic nodule
Phosphatic nodule

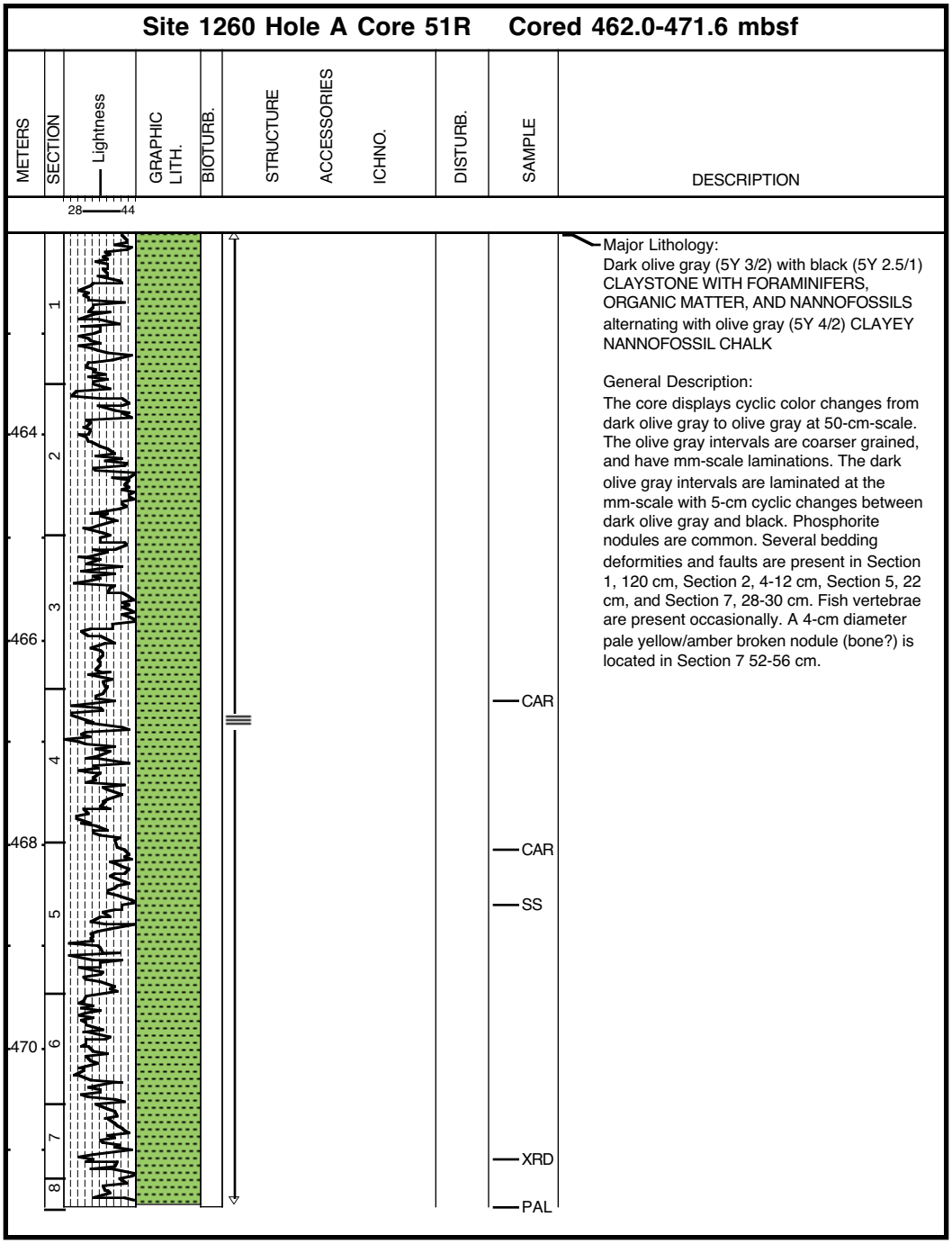
Core Photo


Site 1260 Hole A Core 49R Cored 443.1-452.7 mbsf
METERS
SECTION
Lightness
21
49
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
444
446
448
450
1
2
3
4
5
6
7
CAR
SS
CAR
SS
PAL
Major Lithology:
Dark olive gray (5Y 3/2) CLAYSTONE WITH FORAMINIFERS AND ORGANIC MATTER alternating with olive gray (5Y 4/2) NANNOFOSSIL CLAYSTONE WITH FORAMINIFERS
General Description:
The core is characterized by cyclic color changes from dark olive gray to olive gray at decimeter scale. The olive gray intervals are coarser grained, and have mm-scale laminations that are carbonate rich. The dark olive gray and black intervals are finely laminated (sub mm) and contain rare mm thick beds of carbonate. Phosphorite nodules are common. Bedding deformities and truncation are evident in Section 1 along with vertical fractures infilled with quartz.
Phosphatic nodule
Phosphatic nodule
Phosphatic nodule
Phosphatic nodule

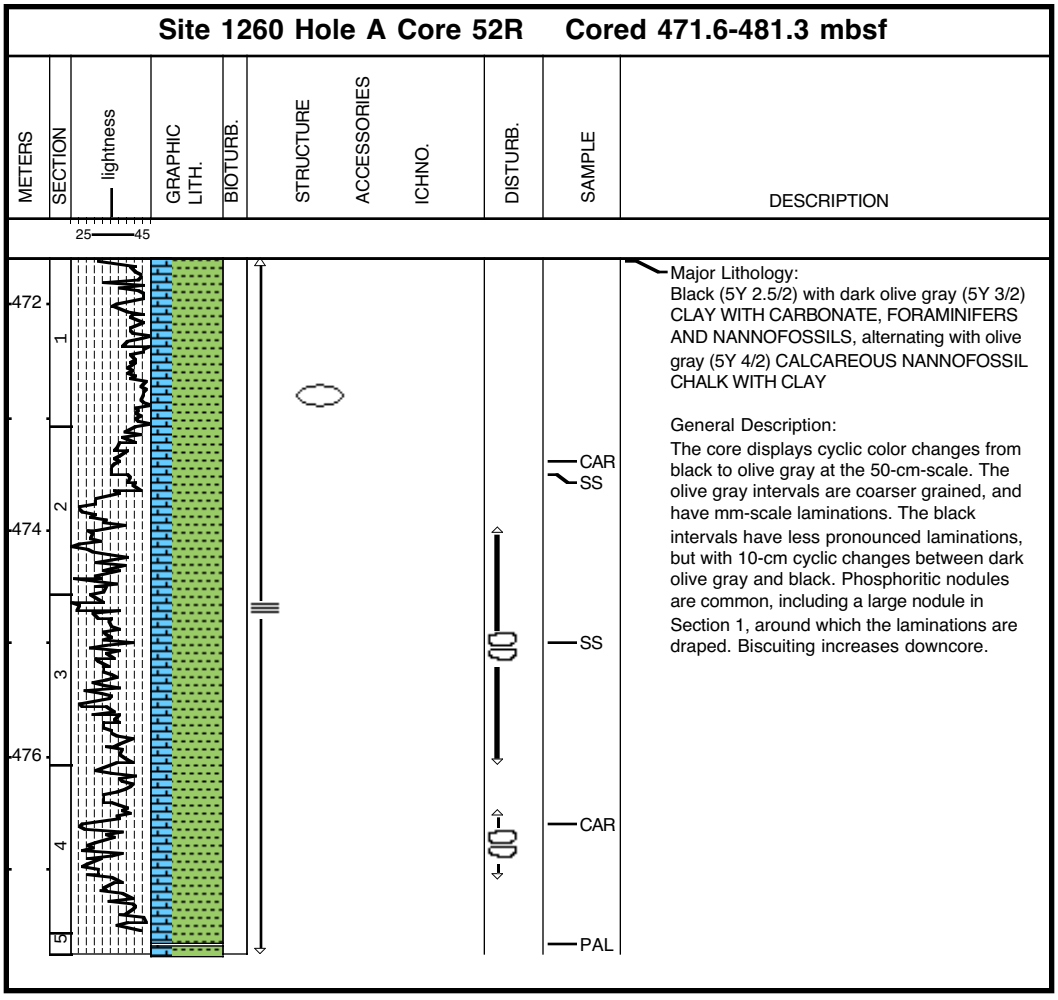
Core Photo


Site 1260 Hole A Core 50R Cored 452.7-462.0 mbsf
METERS
SECTION
Lightness
26
47
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
454
456
458
460
462
1
2
3
4
5
6
7
8
CAR
SS
SS
CAR
CAR
SS
PAL
Major Lithology:
Dark olive gray (5Y 3/2) CLAYSTONE WITH FORAMINIFERS, ORGANIC MATTER AND NANNOFOSSILS alternating with olive gray (5Y 5/2) CALCAREOUS CLAYSTONE
Minor Lithology:
Olive gray (5Y4/2) NANNOFOSSIL CLAYSTONE
General Description:
The core displays cyclic color changes from dark olive gray to olive gray at 5 cm-scale. The olive gray intervals (CALCAREOUS CLAYSTONE changing to NANNOFOSSIL CLAYSTONE downcore) are coarser grained, and have mm-scale laminations. The dark olive gray intervals are homogenous in color and finely laminated (sub mm). Phosphorite nodules are common. Section 4 displays white mineral infilled fractures. Section 5 contains a bedding deformity at 46 cm. Occasional fish debris is found within Sections 4-6.

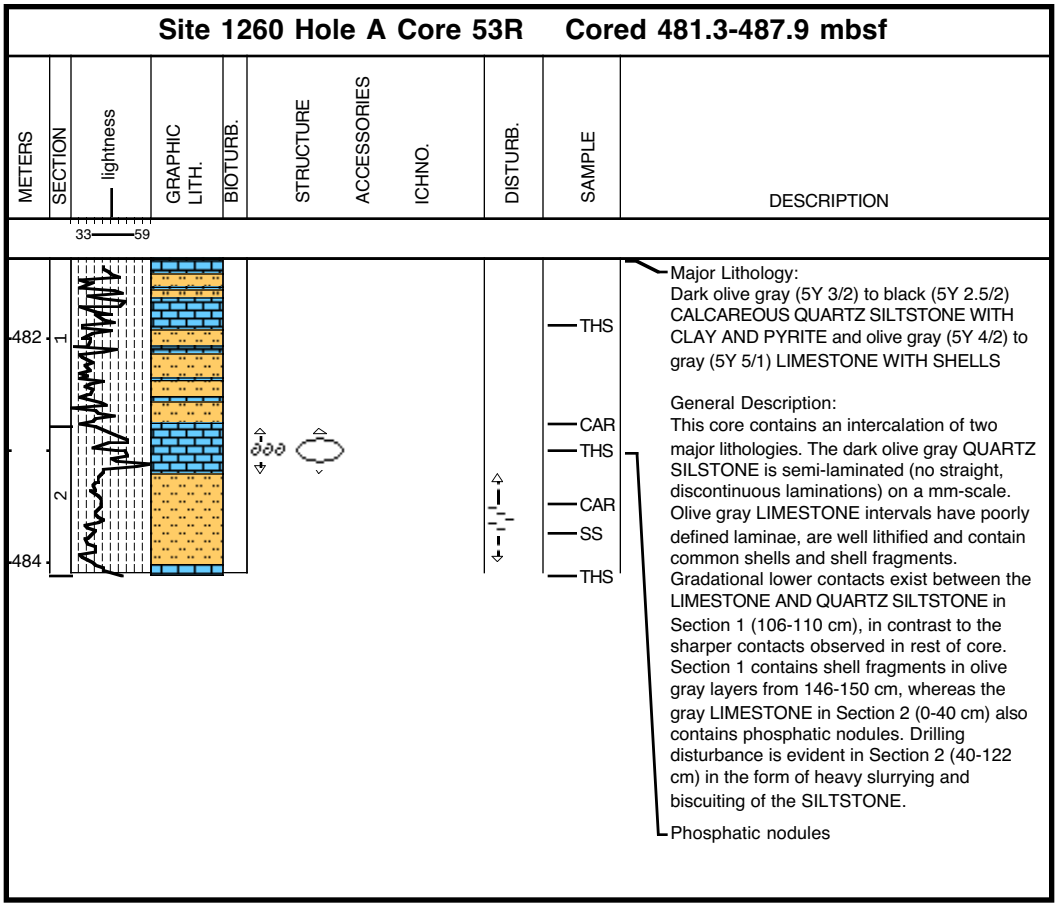
Core Photo


Site 1260 Hole A Core 51R Cored 462.0-471.6 mbsf
METERS
SECTION
Lightness
28
44
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
464
466
468
470
1
2
3
4
5
6
7
8
CAR
CAR
SS
XRD
PAL
Major Lithology:
Dark olive gray (5Y 3/2) with black (5Y 2.5/1) CLAYSTONE WITH FORAMINIFERS, ORGANIC MATTER, AND NANNOFOSSILS alternating with olive gray (5Y 4/2) CLAYEY NANNOFOSSIL CHALK
General Description:
The core displays cyclic color changes from dark olive gray to olive gray at 50-cm-scale. The olive gray intervals are coarser grained, and have mm-scale laminations. The dark olive gray intervals are laminated at the mm-scale with 5-cm cyclic changes between dark olive gray and black. Phosphorite nodules are common. Several bedding deformities and faults are present in Section 1, 120 cm, Section 2, 4-12 cm, Section 5, 22 cm, and Section 7, 28-30 cm. Fish vertebrae are present occasionally. A 4-cm diameter pale yellow/amber broken nodule (bone?) is located in Section 7 52-56 cm.

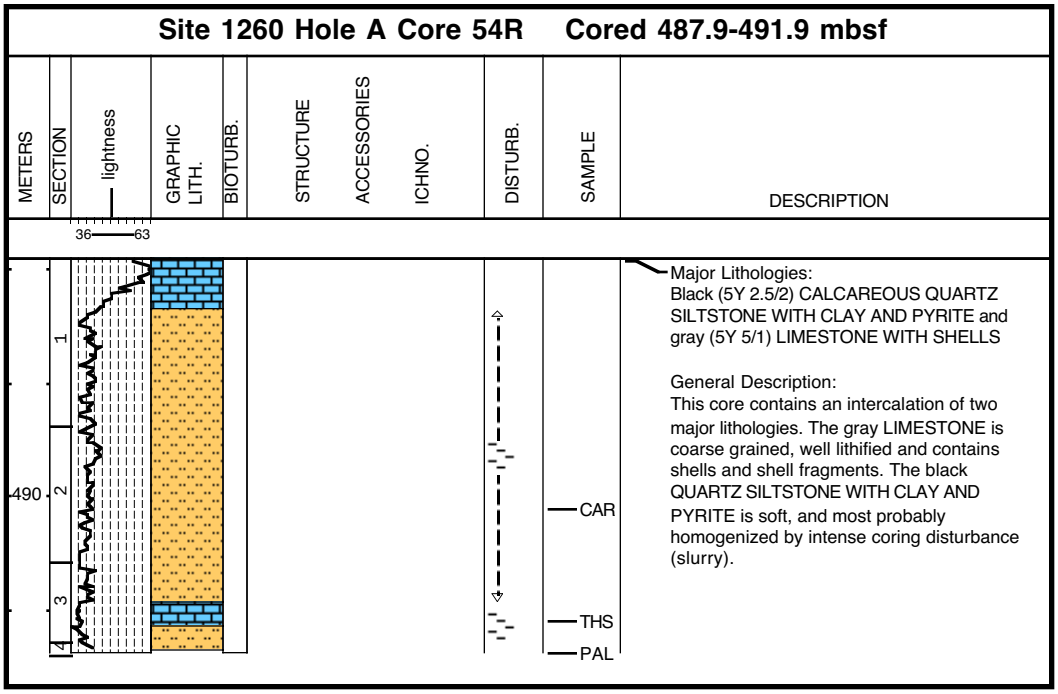
Core Photo


Site 1260 Hole A Core 52R Cored 471.6-481.3 mbsf
METERS
SECTION
lightness
25
45
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
472
474
476
1
2
3
4
5
CAR
SS
SS
CAR
PAL
Major Lithology:
Black (5Y 2.5/2) with dark olive gray (5Y 3/2) CLAY WITH CARBONATE, FORAMINIFERS AND NANNOFOSSILS, alternating with olive gray (5Y 4/2) CALCAREOUS NANNOFOSSIL CHALK WITH CLAY
General Description:
The core displays cyclic color changes from black to olive gray at the 50-cm-scale. The olive gray intervals are coarser grained, and have mm-scale laminations. The black intervals have less pronounced laminations, but with 10-cm cyclic changes between dark olive gray and black. Phosphoritic nodules are common, including a large nodule in Section 1, around which the laminations are draped. Biscuiting increases downcore.

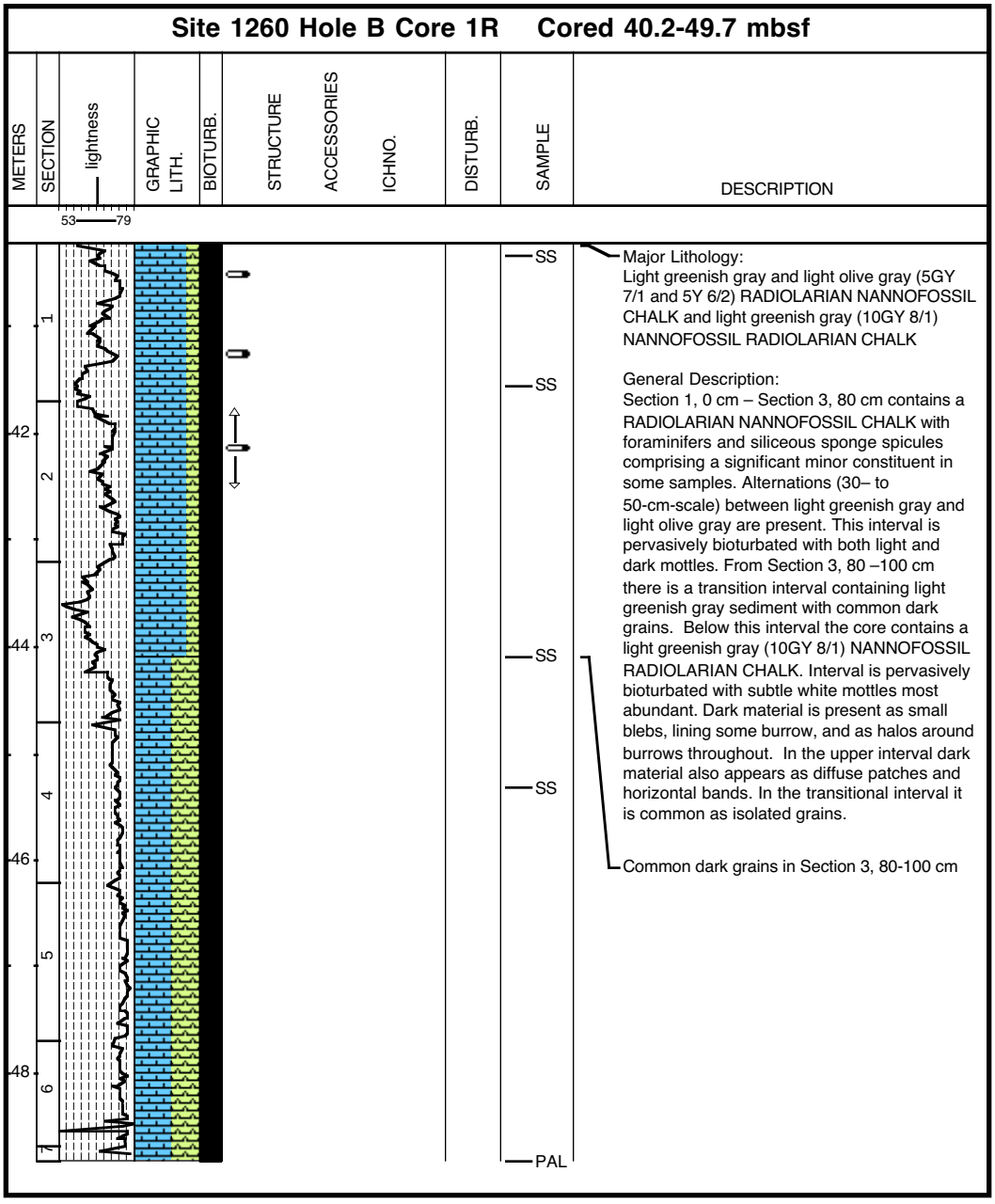
Core Photo


Site 1260 Hole A Core 53R Cored 481.3-487.9 mbsf
METERS
SECTION
lightness
33
59
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
482
484
1
2
THS
CAR
THS
CAR
SS
THS
Major Lithology:
Dark olive gray (5Y 3/2) to black (5Y 2.5/2) CALCAREOUS QUARTZ SILTSTONE WITH CLAY AND PYRITE and olive gray (5Y 4/2) to gray (5Y 5/1) LIMESTONE WITH SHELLS
General Description:
This core contains an intercalation of two major lithologies. The dark olive gray QUARTZ SILSTONE is semi-laminated (no straight, discontinuous laminations) on a mm-scale. Olive gray LIMESTONE intervals have poorly defined laminae, are well lithified and contain common shells and shell fragments. Gradational lower contacts exist between the LIMESTONE AND QUARTZ SILTSTONE in Section 1 (106-110 cm), in contrast to the sharper contacts observed in rest of core. Section 1 contains shell fragments in olive gray layers from 146-150 cm, whereas the gray LIMESTONE in Section 2 (0-40 cm) also contains phosphatic nodules. Drilling disturbance is evident in Section 2 (40-122 cm) in the form of heavy slurrying and biscuiting of the SILTSTONE.
Phosphatic nodules

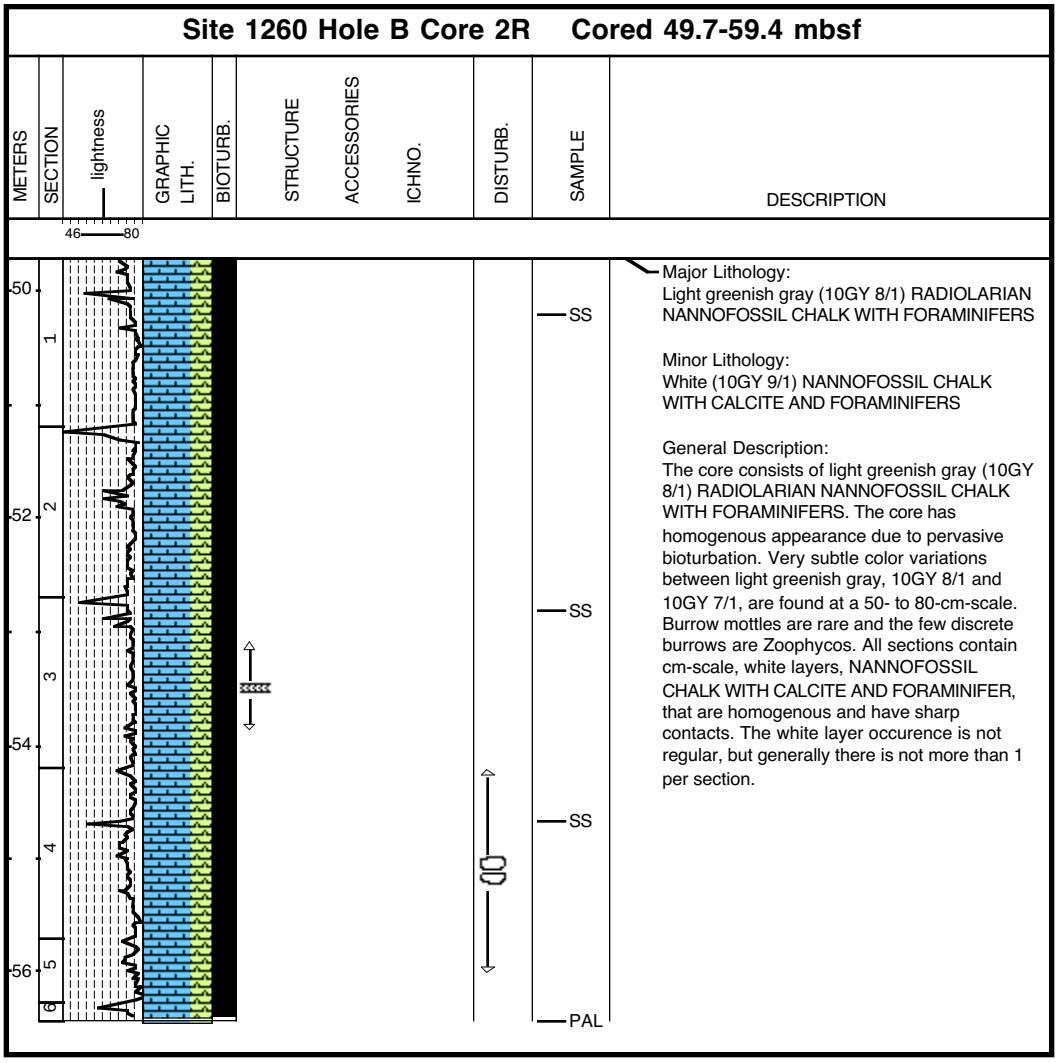
Core Photo


Site 1260 Hole A Core 54R Cored 487.9-491.9 mbsf
METERS
SECTION
lightness
36
63
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
490
1
2
3
4
CAR
THS
PAL
Major Lithologies:
Black (5Y 2.5/2) CALCAREOUS QUARTZ SILTSTONE WITH CLAY AND PYRITE and gray (5Y 5/1) LIMESTONE WITH SHELLS
General Description:
This core contains an intercalation of two major lithologies. The gray LIMESTONE is coarse grained, well lithified and contains shells and shell fragments. The black QUARTZ SILTSTONE WITH CLAY AND PYRITE is soft, and most probably homogenized by intense coring disturbance (slurry).

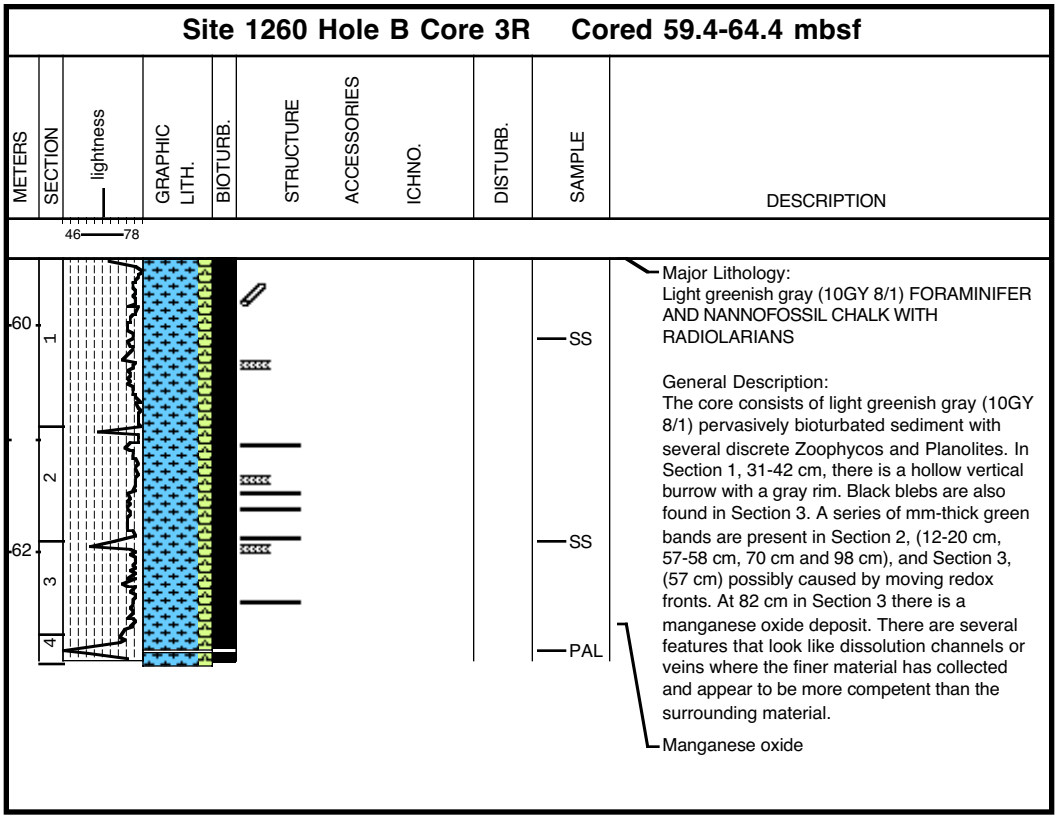
Core Photo


Site 1260 Hole B Core 1R Cored 40.2-49.7 mbsf
METERS
SECTION
lightness
53
79
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
42
44
46
48
1
2
3
4
5
6
7
SS
SS
SS
SS
PAL
Major Lithology:
Light greenish gray and light olive gray (5GY 7/1 and 5Y 6/2) RADIOLARIAN NANNOFOSSIL CHALK and light greenish gray (10GY 8/1) NANNOFOSSIL RADIOLARIAN CHALK
General Description:
Section 1, 0 cm – Section 3, 80 cm contains a RADIOLARIAN NANNOFOSSIL CHALK with foraminifers and siliceous sponge spicules comprising a significant minor constituent in some samples. Alternations (30– to 50-cm-scale) between light greenish gray and light olive gray are present. This interval is pervasively bioturbated with both light and dark mottles. From Section 3, 80 –100 cm there is a transition interval containing light greenish gray sediment with common dark grains. Below this interval the core contains a light greenish gray (10GY 8/1) NANNOFOSSIL RADIOLARIAN CHALK. Interval is pervasively bioturbated with subtle white mottles most abundant. Dark material is present as small blebs, lining some burrow, and as halos around burrows throughout. In the upper interval dark material also appears as diffuse patches and horizontal bands. In the transitional interval it is common as isolated grains.
Common dark grains in Section 3, 80-100 cm

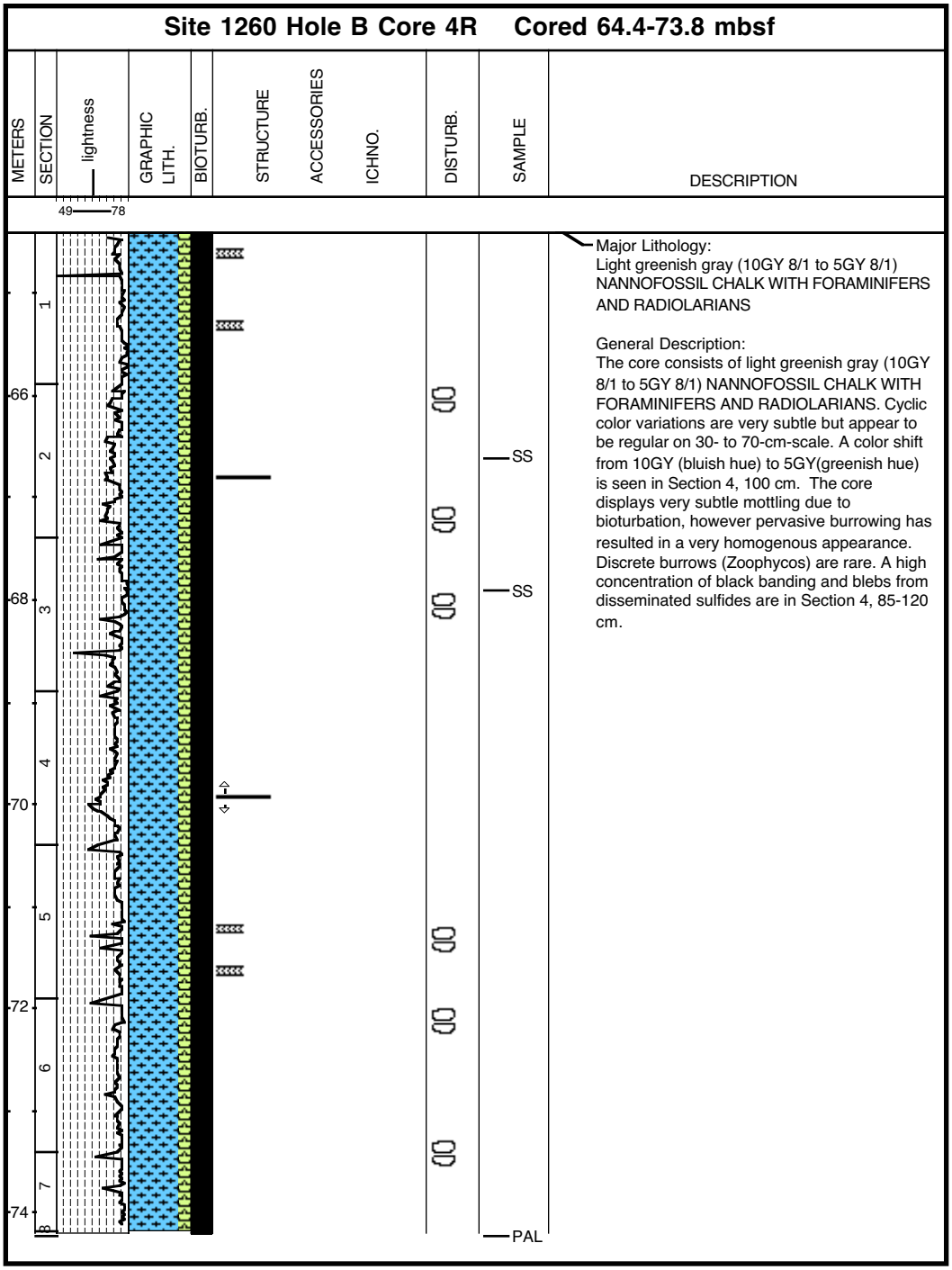
Core Photo


Site 1260 Hole B Core 2R Cored 49.7-59.4 mbsf
METERS
SECTION
lightness
46
80
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
50
52
54
56
1
2
3
4
5
6
SS
SS
SS
PAL
Major Lithology:
Light greenish gray (10GY 8/1) RADIOLARIAN NANNOFOSSIL CHALK WITH FORAMINIFERS
Minor Lithology:
White (10GY 9/1) NANNOFOSSIL CHALK WITH CALCITE AND FORAMINIFERS
General Description:
The core consists of light greenish gray (10GY 8/1) RADIOLARIAN NANNOFOSSIL CHALK WITH FORAMINIFERS. The core has homogenous appearance due to pervasive bioturbation. Very subtle color variations between light greenish gray, 10GY 8/1 and 10GY 7/1, are found at a 50- to 80-cm-scale. Burrow mottles are rare and the few discrete burrows are Zoophycos. All sections contain cm-scale, white layers, NANNOFOSSIL CHALK WITH CALCITE AND FORAMINIFER, that are homogenous and have sharp contacts. The white layer occurence is not regular, but generally there is not more than 1 per section.

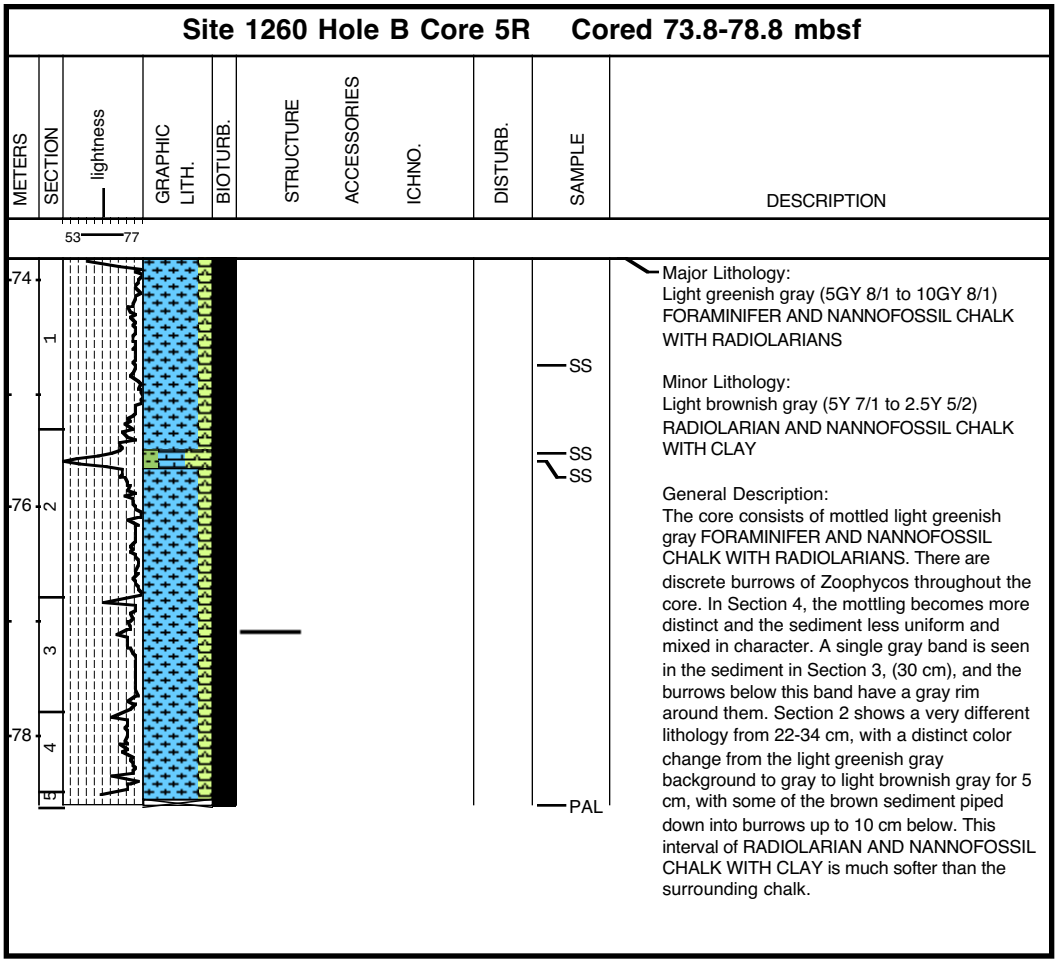
Core Photo


Site 1260 Hole B Core 3R Cored 59.4-64.4 mbsf
METERS
SECTION
lightness
46
78
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
60
62
1
2
3
4
SS
SS
PAL
Major Lithology:
Light greenish gray (10GY 8/1) FORAMINIFER AND NANNOFOSSIL CHALK WITH RADIOLARIANS
General Description:
The core consists of light greenish gray (10GY 8/1) pervasively bioturbated sediment with several discrete Zoophycos and Planolites. In Section 1, 31-42 cm, there is a hollow vertical burrow with a gray rim. Black blebs are also found in Section 3. A series of mm-thick green bands are present in Section 2, (12-20 cm, 57-58 cm, 70 cm and 98 cm), and Section 3, (57 cm) possibly caused by moving redox fronts. At 82 cm in Section 3 there is a manganese oxide deposit. There are several features that look like dissolution channels or veins where the finer material has collected and appear to be more competent than the surrounding material.
Manganese oxide

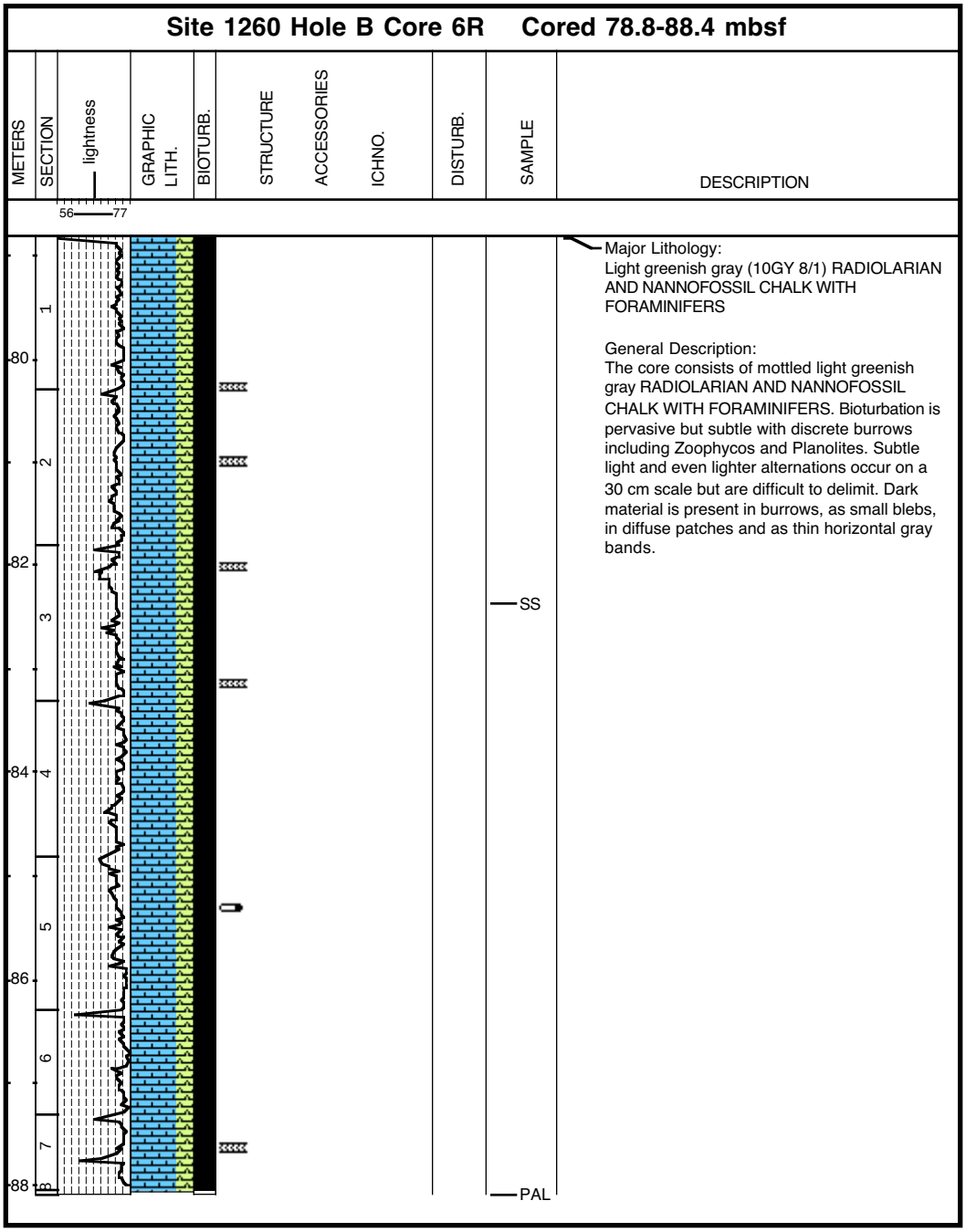
Core Photo


Site 1260 Hole B Core 4R Cored 64.4-73.8 mbsf
METERS
SECTION
lightness
49
78
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
66
68
70
72
74
1
2
3
4
5
6
7
CC
SS
SS
PAL
Major Lithology:
Light greenish gray (10GY 8/1 to 5GY 8/1) NANNOFOSSIL CHALK WITH FORAMINIFERS AND RADIOLARIANS
General Description:
The core consists of light greenish gray (10GY 8/1 to 5GY 8/1) NANNOFOSSIL CHALK WITH FORAMINIFERS AND RADIOLARIANS. Cyclic color variations are very subtle but appear to be regular on 30- to 70-cm-scale. A color shift from 10GY (bluish hue) to 5GY(greenish hue) is seen in Section 4, 100 cm. The core displays very subtle mottling due to bioturbation, however pervasive burrowing has resulted in a very homogenous appearance. Discrete burrows (Zoophycos) are rare. A high concentration of black banding and blebs from disseminated sulfides are in Section 4, 85-120 cm.

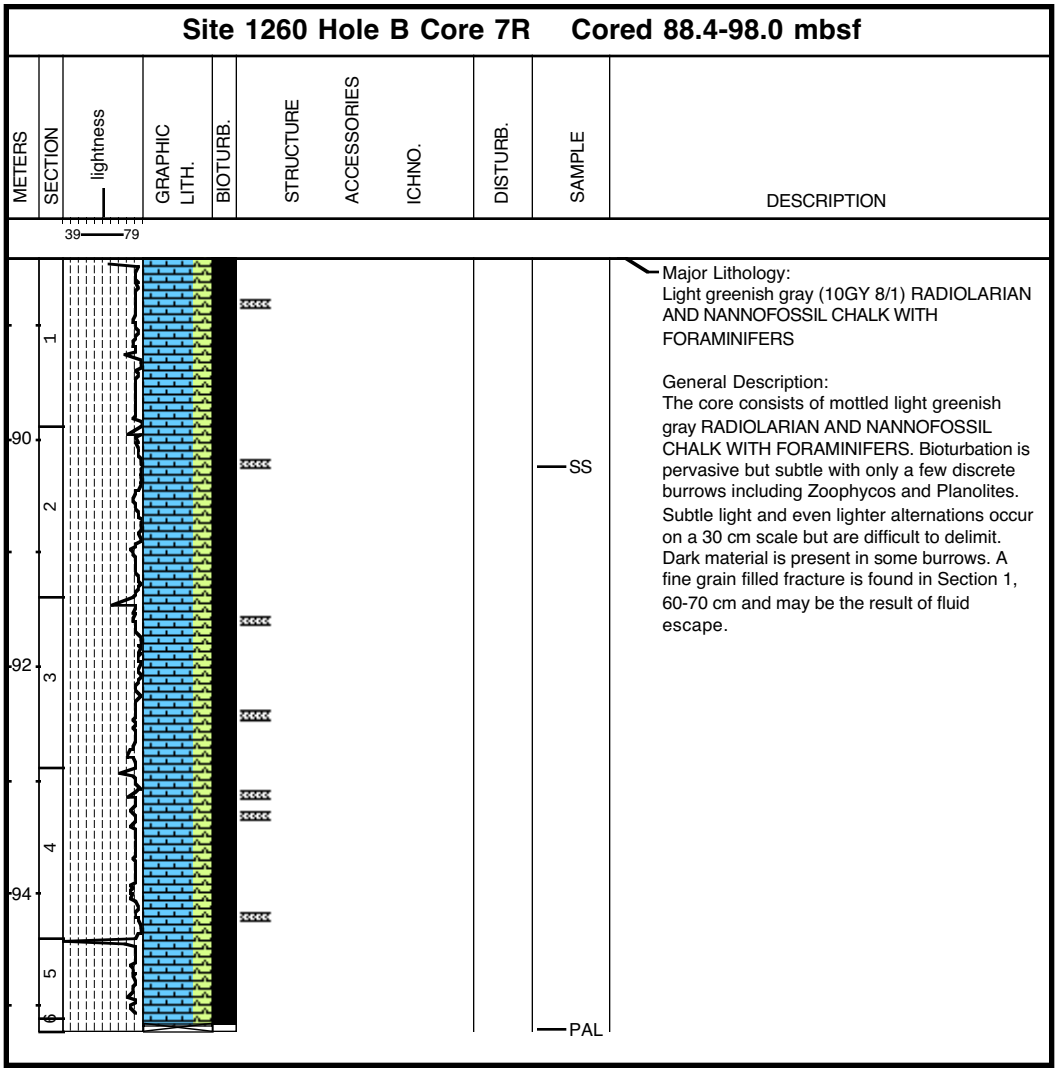
Core Photo


Site 1260 Hole B Core 5R Cored 73.8-78.8 mbsf
METERS
SECTION
lightness
53
77
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
74
76
78
1
2
3
4
CC
SS
SS
SS
PAL
Major Lithology:
Light greenish gray (5GY 8/1 to 10GY 8/1)
FORAMINIFER AND NANNOFOSSIL CHALK
WITH RADIOLARIANS
Minor Lithology:
Light brownish gray (5Y 7/1 to 2.5Y 5/2)
RADIOLARIAN AND NANNOFOSSIL CHALK
WITH CLAY
General Description:
The core consists of mottled light greenish gray FORAMINIFER AND NANNOFOSSIL CHALK WITH RADIOLARIANS. There are discrete burrows of Zoophycos throughout the core. In Section 4, the mottling becomes more distinct and the sediment less uniform and mixed in character. A single gray band is seen in the sediment in Section 3, (30 cm), and the burrows below this band have a gray rim around them. Section 2 shows a very different lithology from 22-34 cm, with a distinct color change from the light greenish gray background to gray to light brownish gray for 5 cm, with some of the brown sediment piped down into burrows up to 10 cm below. This interval of RADIOLARIAN AND NANNOFOSSIL CHALK WITH CLAY is much softer than the surrounding chalk.

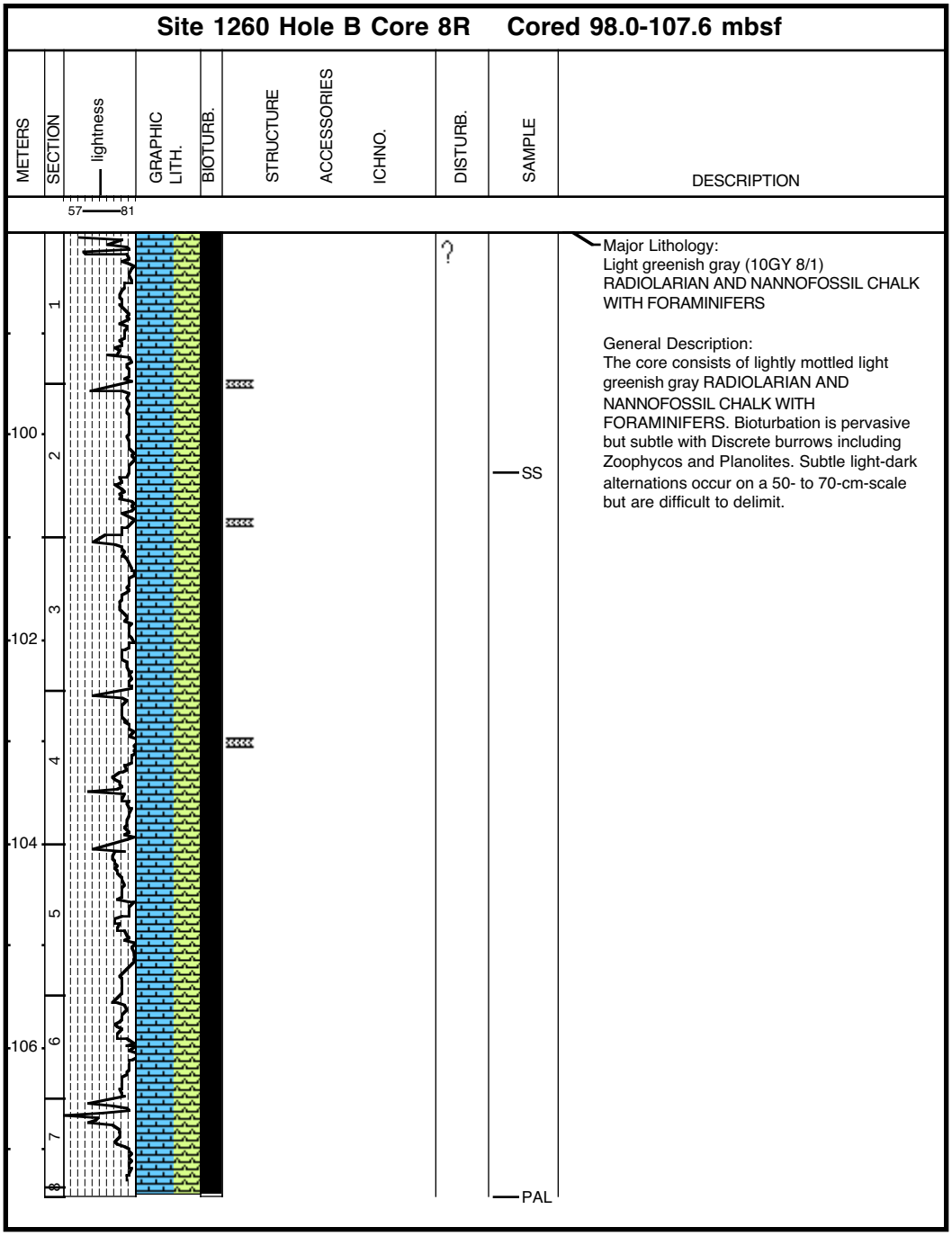
Core Photo


Site 1260 Hole B Core 6R Cored 78.8-88.4 mbsf
METERS
SECTION
lightness
56
77
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
80
82
84
86
88
1
2
3
4
5
6
7
CC
SS
PAL
Major Lithology:
Light greenish gray (10GY 8/1) RADIOLARIAN AND NANNOFOSSIL CHALK WITH FORAMINIFERS
General Description:
The core consists of mottled light greenish gray RADIOLARIAN AND NANNOFOSSIL CHALK WITH FORAMINIFERS. Bioturbation is pervasive but subtle with discrete burrows including Zoophycos and Planolites. Subtle light and even lighter alternations occur on a 30 cm scale but are difficult to delimit. Dark material is present in burrows, as small blebs, in diffuse patches and as thin horizontal gray bands.

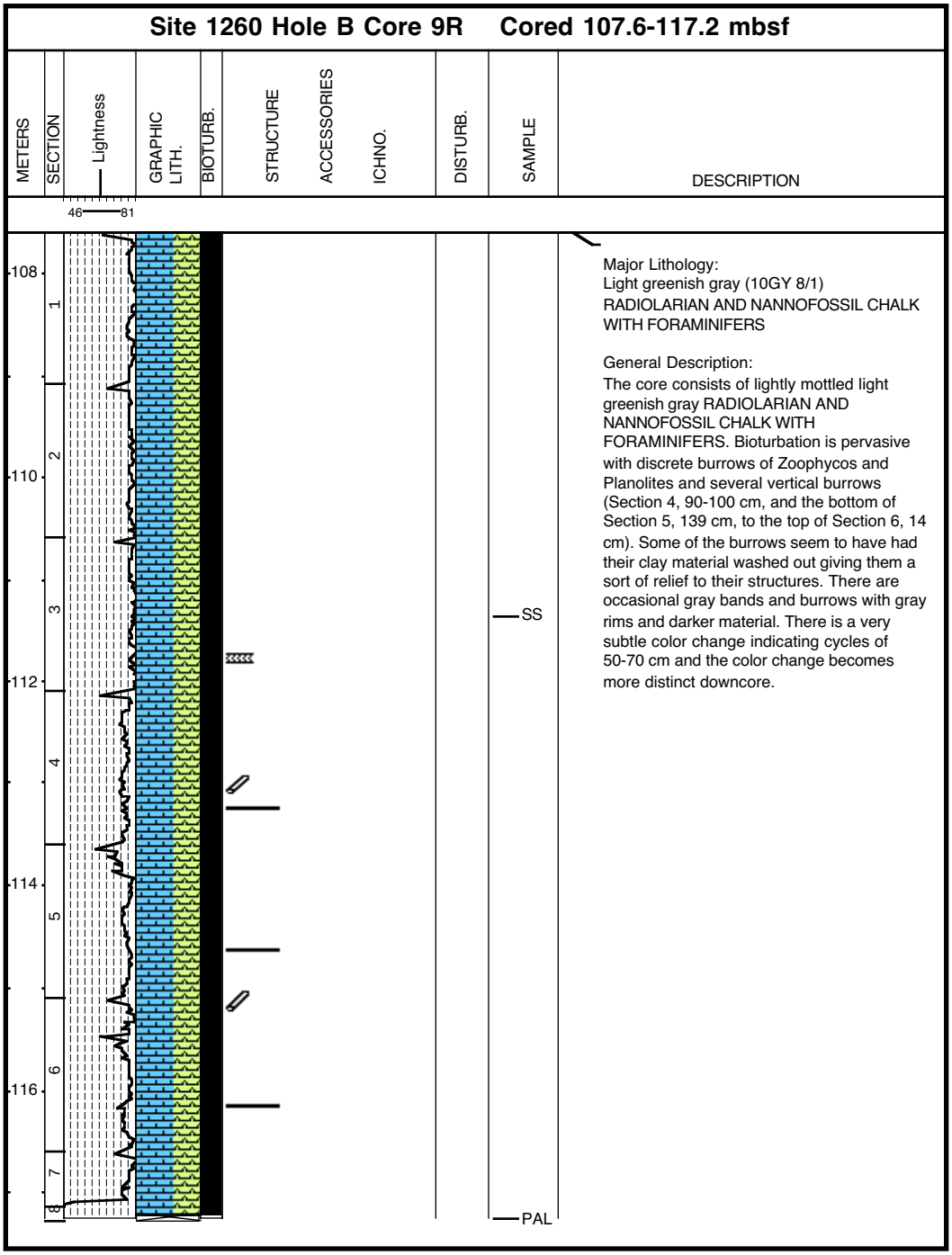
Core Photo


Site 1260 Hole B Core 7R Cored 88.4-98.0 mbsf
METERS
SECTION
lightness
39
79
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
90
92
94
1
2
3
4
5
6
SS
PAL
Major Lithology:
Light greenish gray (10GY 8/1) RADIOLARIAN AND NANNOFOSSIL CHALK WITH FORAMINIFERS
General Description:
The core consists of mottled light greenish gray RADIOLARIAN AND NANNOFOSSIL CHALK WITH FORAMINIFERS. Bioturbation is pervasive but subtle with only a few discrete burrows including Zoophycos and Planolites. Subtle light and even lighter alternations occur on a 30 cm scale but are difficult to delimit. Dark material is present in some burrows. A fine grain filled fracture is found in Section 1, 60-70 cm and may be the result of fluid escape.

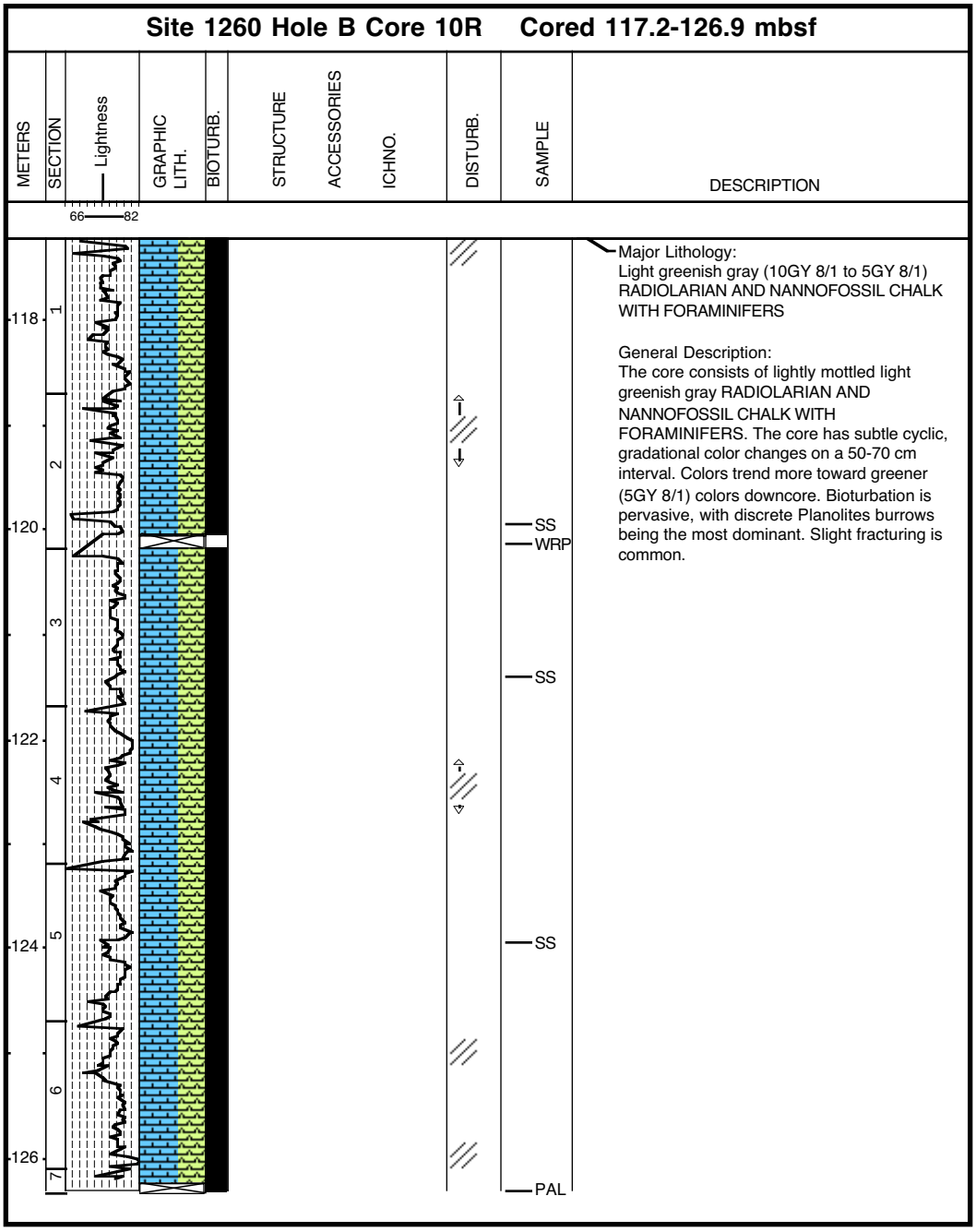
Core Photo


Site 1260 Hole B Core 8R Cored 98.0-107.6 mbsf
METERS
SECTION
lightness
57
81
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
100
102
104
106
1
2
3
4
5
6
7
SS
PAL
?
Major Lithology:
Light greenish gray (10GY 8/1)
RADIOLARIAN AND NANNOFOSSIL CHALK WITH FORAMINIFERS
General Description:
The core consists of lightly mottled light greenish gray RADIOLARIAN AND NANNOFOSSIL CHALK WITH FORAMINIFERS. Bioturbation is pervasive but subtle with Discrete burrows including Zoophycos and Planolites. Subtle light-dark alternations occur on a 50- to 70-cm-scale but are difficult to delimit.

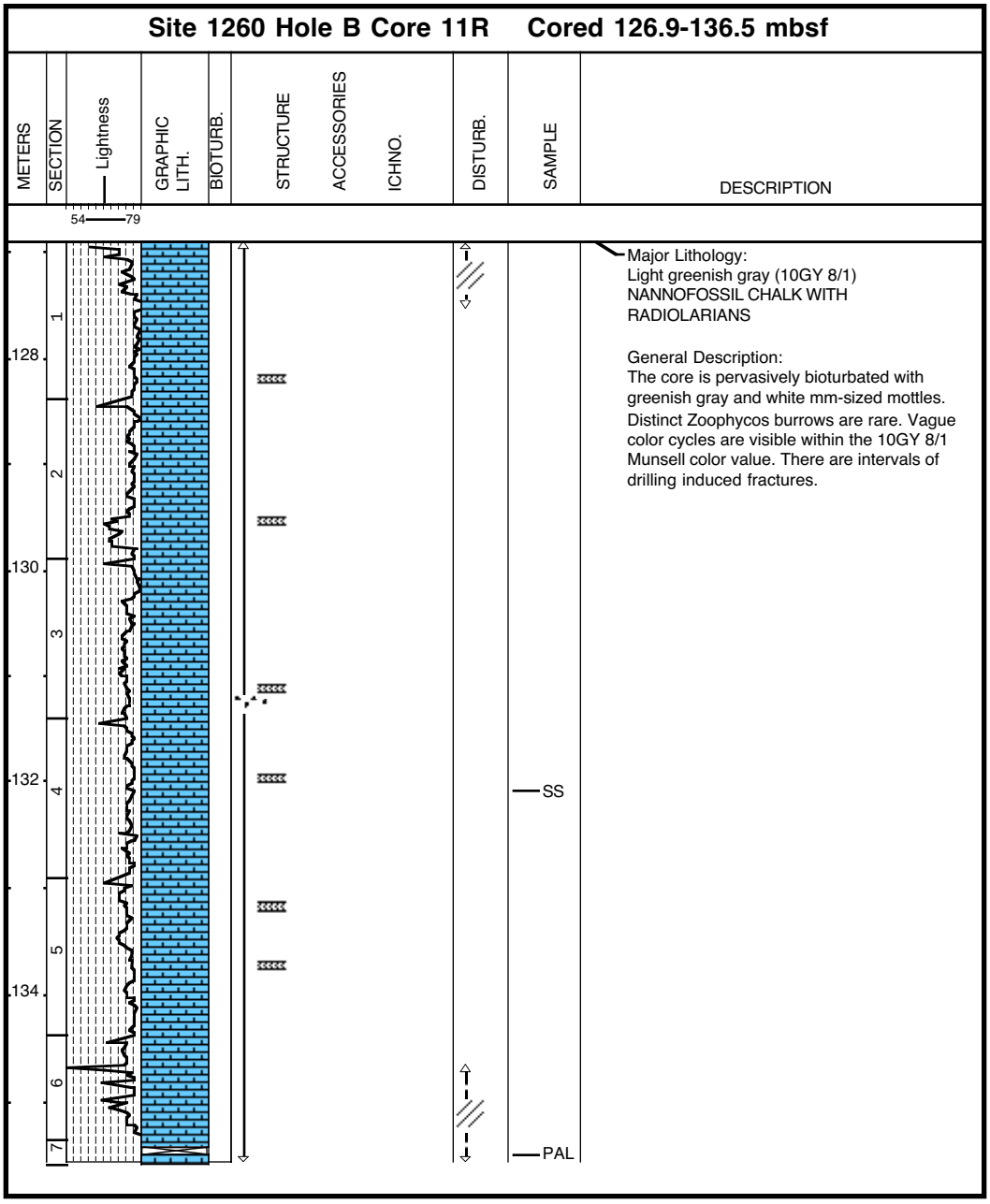
Core Photo


Site 1260 Hole B Core 9R Cored 107.6-117.2 mbsf
METERS
SECTION
Lightness
46
81
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
108
110
112
114
116
1
2
3
4
5
6
7
SS
PAL
Major Lithology:
Light greenish gray (10GY 8/1)
RADIOLARIAN AND NANNOFOSSIL CHALK WITH FORAMINIFERS
General Description:
The core consists of lightly mottled light greenish gray RADIOLARIAN AND NANNOFOSSIL CHALK WITH FORAMINIFERS. Bioturbation is pervasive with discrete burrows of Zoophycos and Planolites and several vertical burrows (Section 4, 90-100 cm, and the bottom of Section 5, 139 cm, to the top of Section 6, 14 cm). Some of the burrows seem to have had their clay material washed out giving them a sort of relief to their structures. There are occasional gray bands and burrows with gray rims and darker material. There is a very subtle color change indicating cycles of 50-70 cm and the color change becomes more distinct downcore.

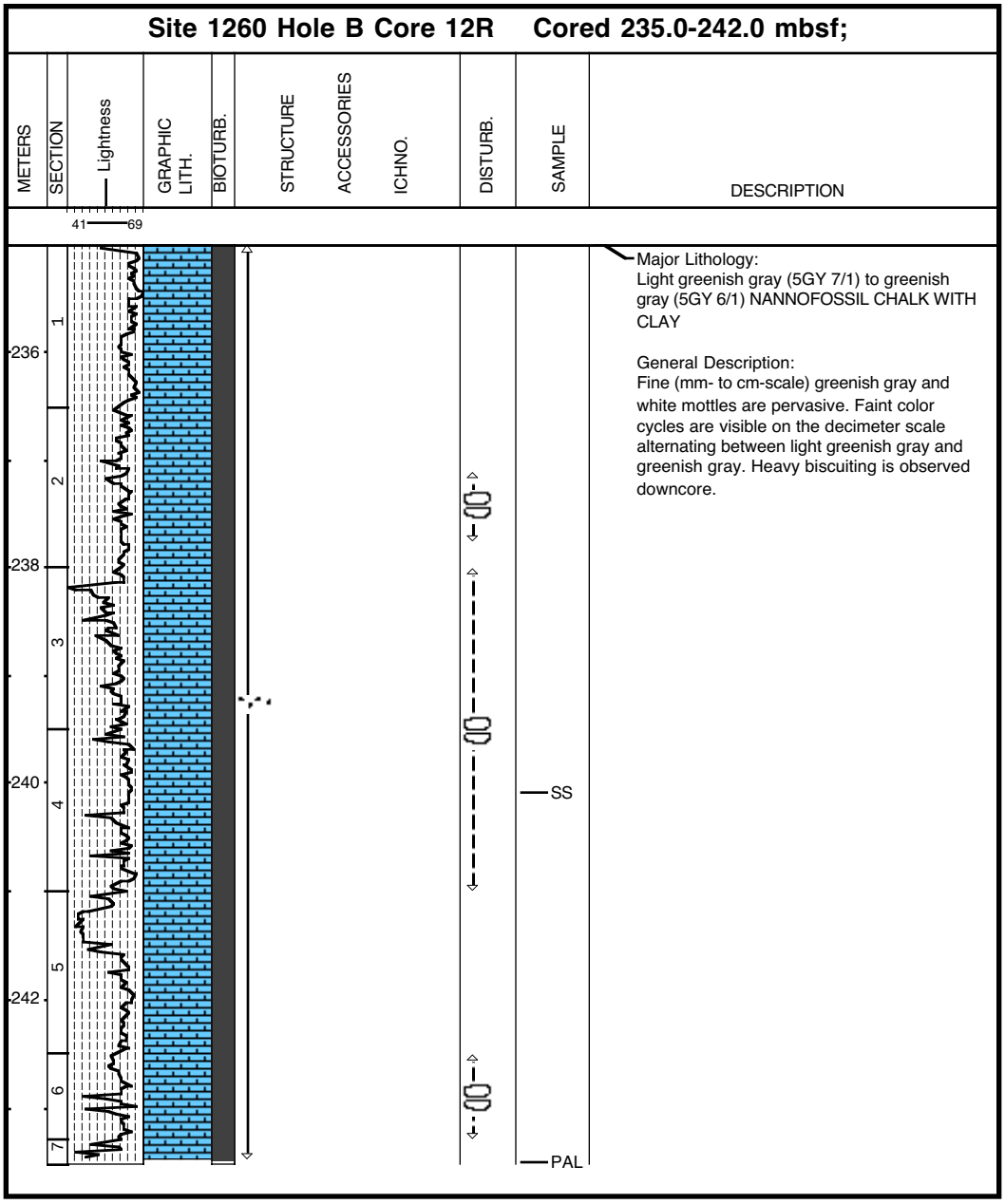
Core Photo


Site 1260 Hole B Core 10R Cored 117.2-126.9 mbsf
METERS
SECTION
Lightness
66
82
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
118
120
122
124
126
1
2
3
4
5
6
7
SS
WRP
SS
SS
PAL
Major Lithology:
Light greenish gray (10GY 8/1 to 5GY 8/1) RADIOLARIAN AND NANNOFOSSIL CHALK WITH FORAMINIFERS
General Description:
The core consists of lightly mottled light greenish gray RADIOLARIAN AND NANNOFOSSIL CHALK WITH FORAMINIFERS. The core has subtle cyclic, gradational color changes on a 50-70 cm interval. Colors trend more toward greener (5GY 8/1) colors downcore. Bioturbation is pervasive, with discrete Planolites burrows being the most dominant. Slight fracturing is common.

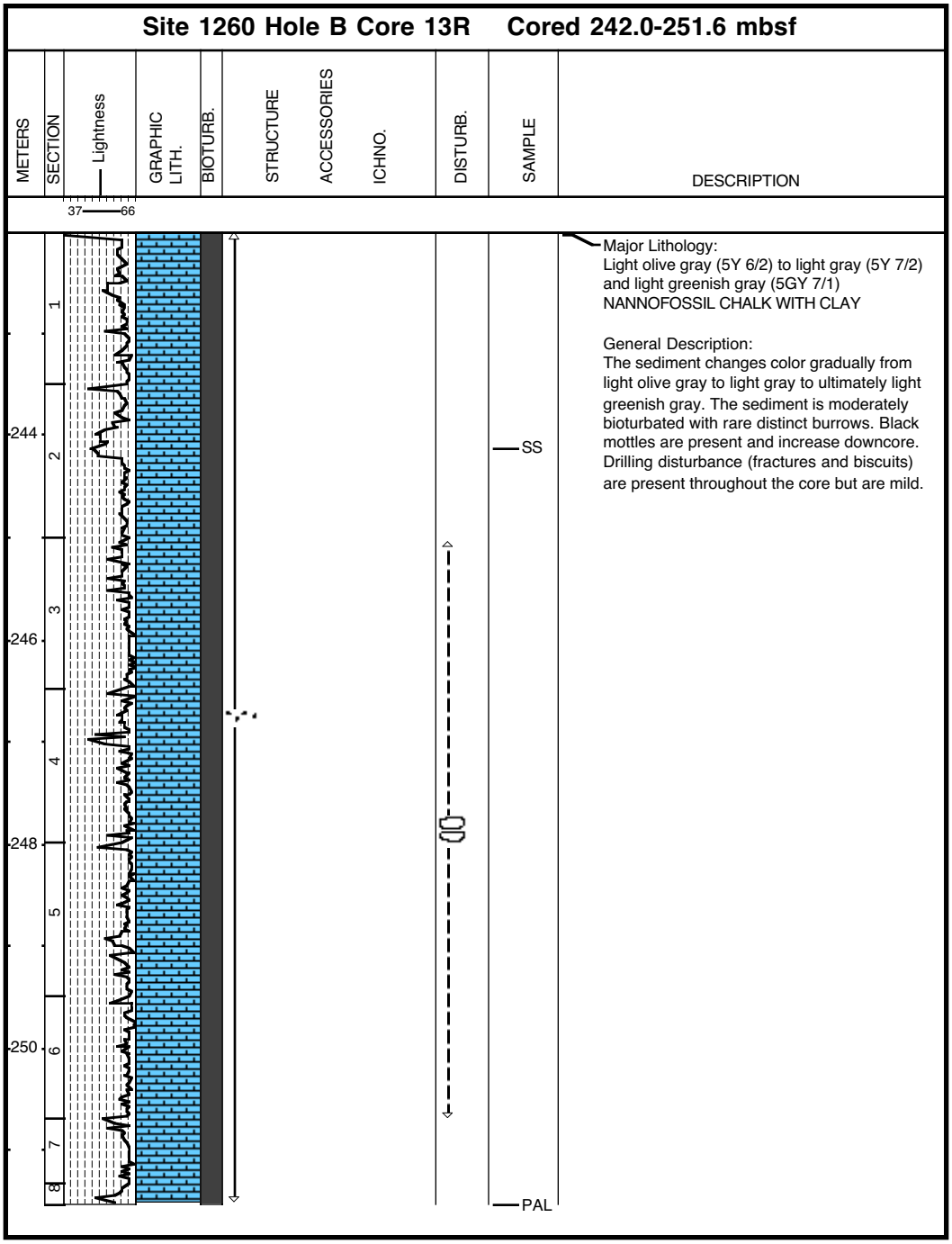
Core Photo


Site 1260 Hole B Core 11R Cored 126.9-136.5 mbsf
METERS
SECTION
Lightness
54
79
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
128
130
132
134
1
2
3
4
5
6
7
SS
PAL
Major Lithology:
Light greenish gray (10GY 8/1)
NANNOFOSSIL CHALK WITH
RADIOLARIANS
General Description:
The core is pervasively bioturbated with greenish gray and white mm-sized mottles. Distinct Zoophycos burrows are rare. Vague color cycles are visible within the 10GY 8/1 Munsell color value. There are intervals of drilling induced fractures.

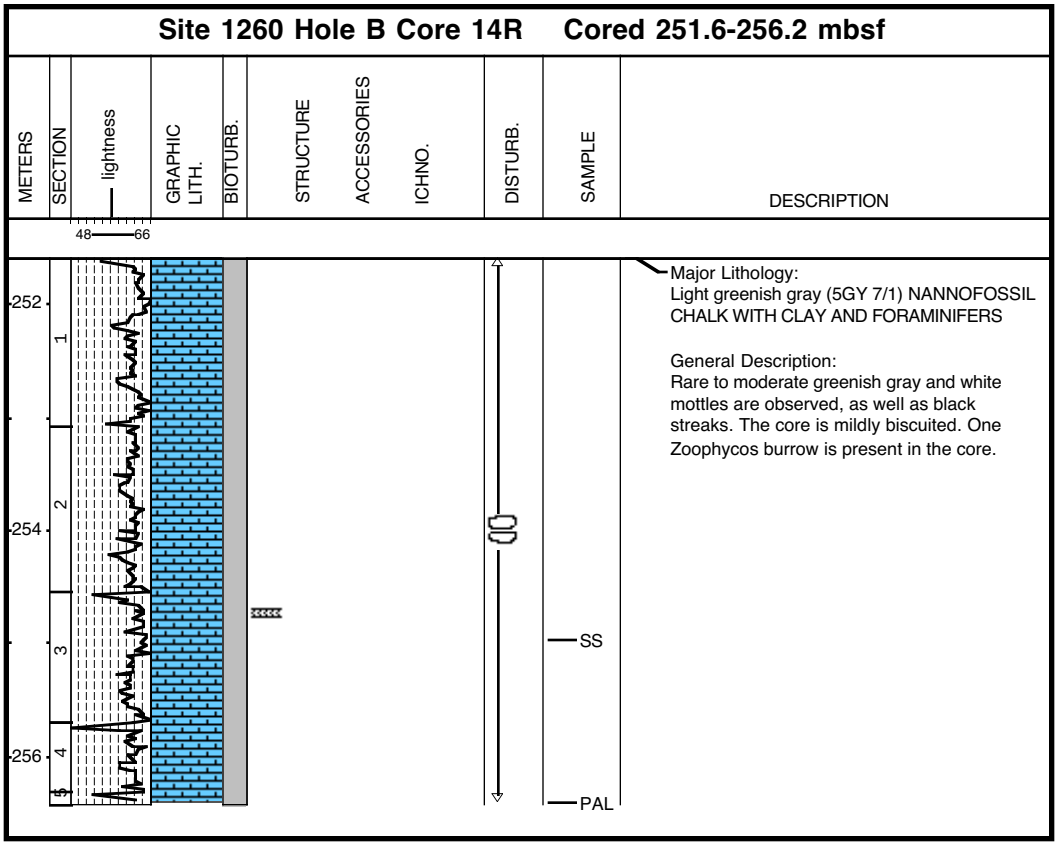
Core Photo


Site 1260 Hole B Core 12R Cored 235.0-242.0 mbsf;
METERS
SECTION
Lightness
41
69
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
236
238
240
242
1
2
3
4
5
6
7
SS
PAL
Major Lithology:
Light greenish gray (5GY 7/1) to greenish gray (5GY 6/1) NANNOFOSSIL CHALK WITH CLAY
General Description:
Fine (mm- to cm-scale) greenish gray and white mottles are pervasive. Faint color cycles are visible on the decimeter scale alternating between light greenish gray and greenish gray. Heavy biscuiting is observed downcore.

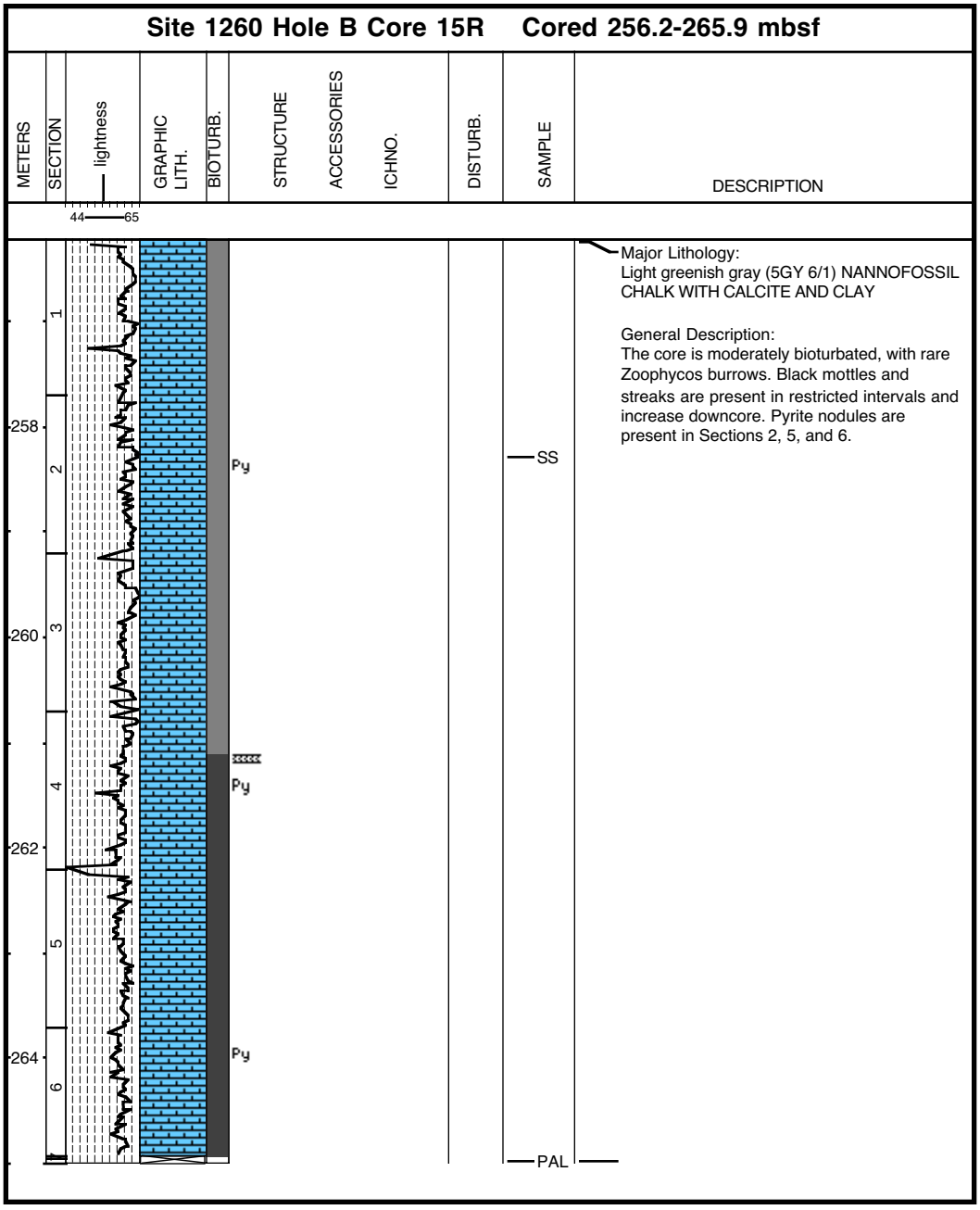
Core Photo


Site 1260 Hole B Core 13R Cored 242.0-251.6 mbsf
METERS
SECTION
Lightness
37
66
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
244
246
248
250
1
2
3
4
5
6
7
8
SS
PAL
Major Lithology:
Light olive gray (5Y 6/2) to light gray (5Y 7/2) and light greenish gray (5GY 7/1) NANNOFOSSIL CHALK WITH CLAY
General Description:
The sediment changes color gradually from light olive gray to light gray to ultimately light greenish gray. The sediment is moderately bioturbated with rare distinct burrows. Black mottles are present and increase downcore. Drilling disturbance (fractures and biscuits) are present throughout the core but are mild.

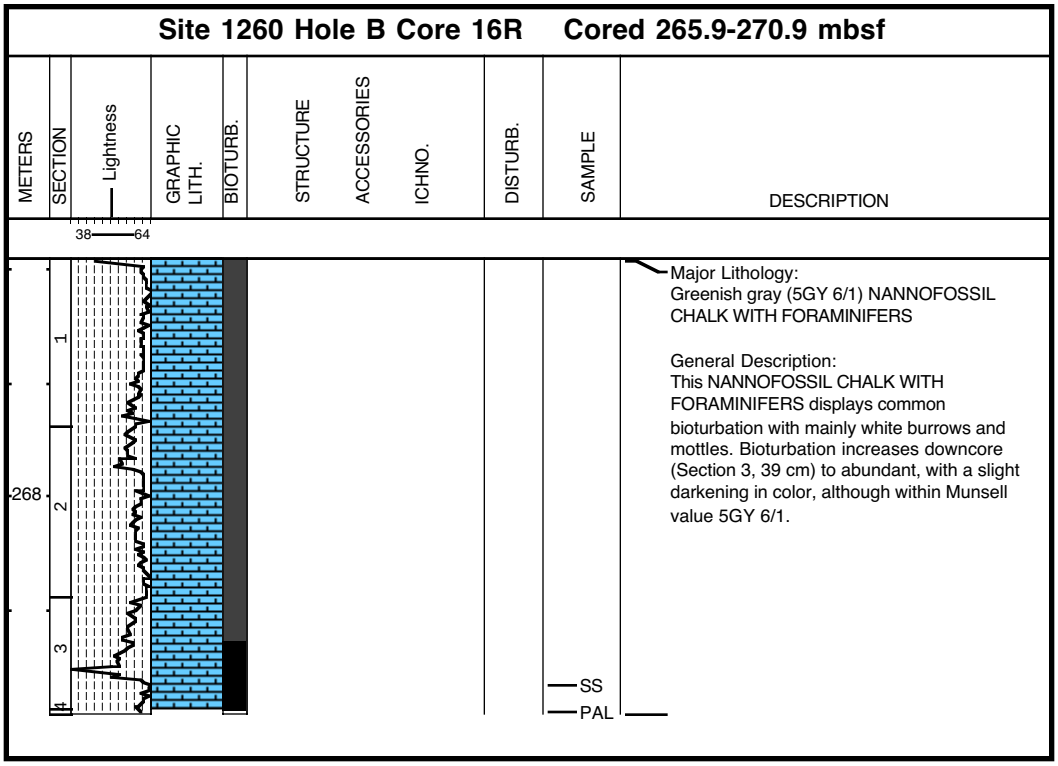
Core Photo


Site 1260 Hole B Core 14R Cored 251.6-256.2 mbsf
METERS
SECTION
lightness
48
66
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
252
254
256
1
2
3
4
5
SS
PAL
Major Lithology:
Light greenish gray (5GY 7/1) NANNOFOSSIL CHALK WITH CLAY AND FORAMINIFERS
General Description:
Rare to moderate greenish gray and white mottles are observed, as well as black streaks. The core is mildly biscuited. One Zoophycos burrow is present in the core.

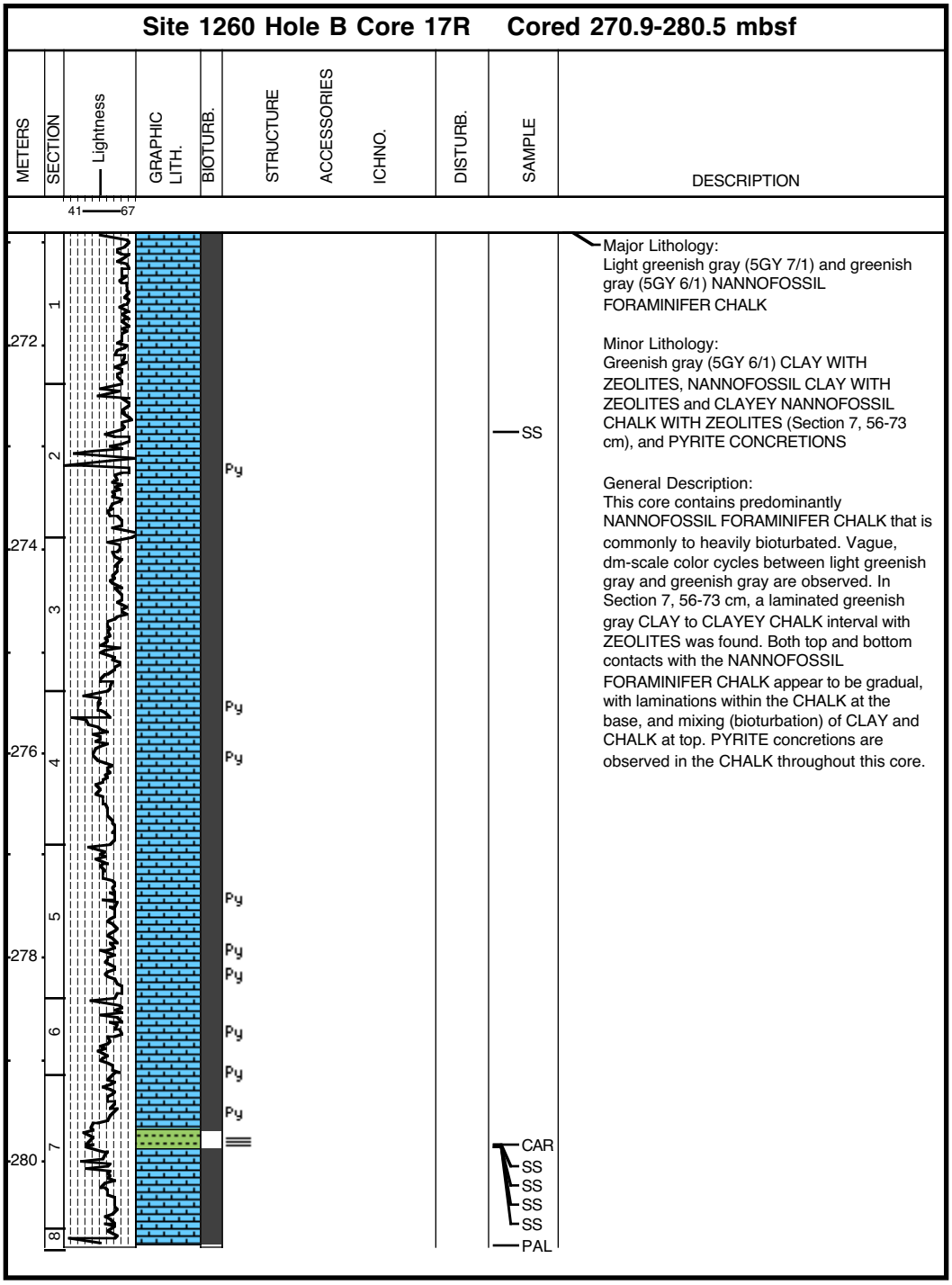
Core Photo


Site 1260 Hole B Core 15R Cored 256.2-265.9 mbsf
METERS
SECTION
lightness
44
65
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
258
260
262
264
1
2
3
4
5
6
Py
Py
Py
SS
PAL
Major Lithology:
Light greenish gray (5GY 6/1) NANNOFOSSIL CHALK WITH CALCITE AND CLAY
General Description:
The core is moderately bioturbated, with rare Zoophycos burrows. Black mottles and streaks are present in restricted intervals and increase downcore. Pyrite nodules are present in Sections 2, 5, and 6.

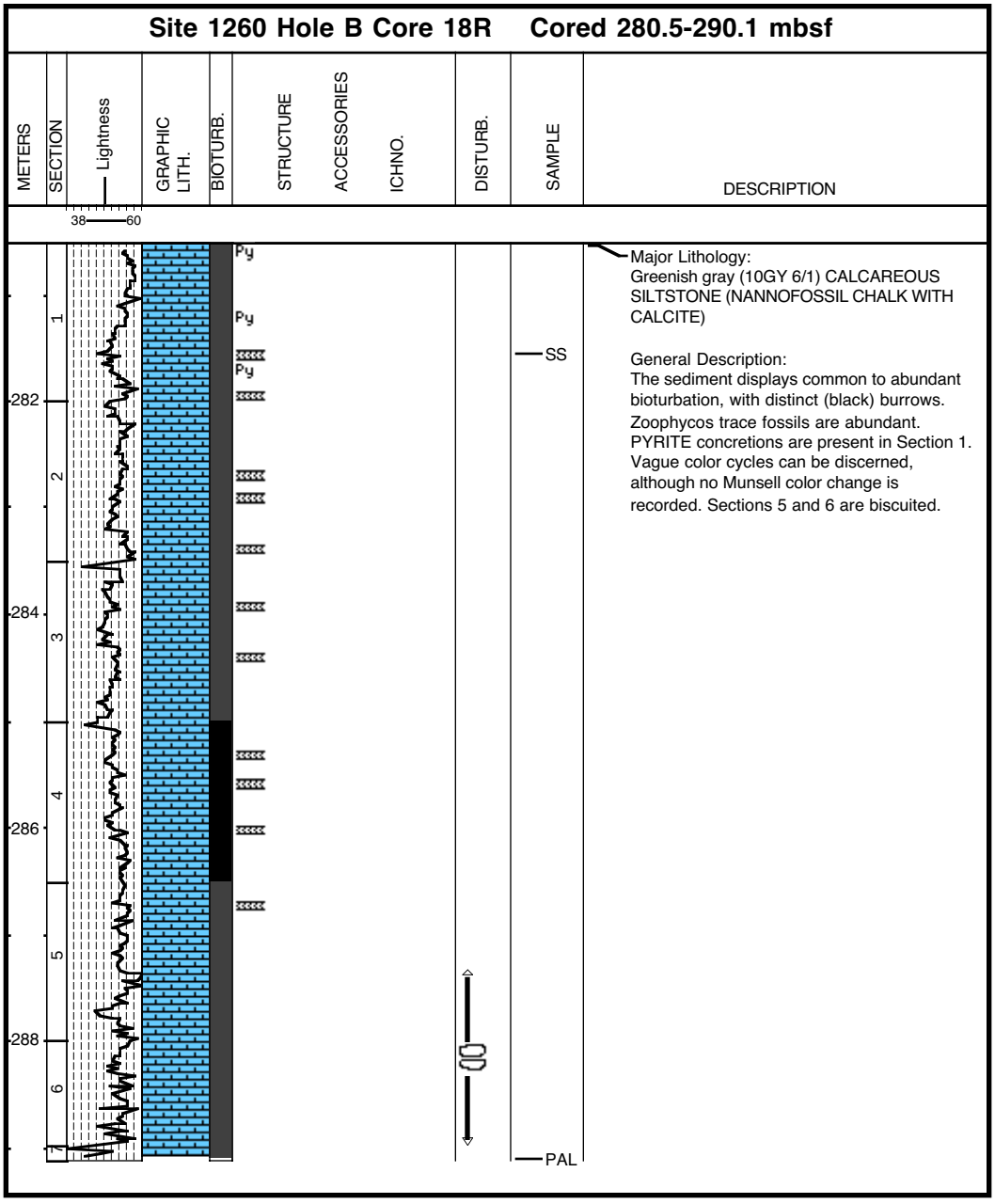
Core Photo


Site 1260 Hole B Core 16R Cored 265.9-270.9 mbsf
METERS
SECTION
Lightness
38
64
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
268
1
2
3
4
SS
PAL
Major Lithology:
Greenish gray (5GY 6/1) NANNOFOSSIL CHALK WITH FORAMINIFERS
General Description:
This NANNOFOSSIL CHALK WITH FORAMINIFERS displays common bioturbation with mainly white burrows and mottles. Bioturbation increases downcore (Section 3, 39 cm) to abundant, with a slight darkening in color, although within Munsell value 5GY 6/1.

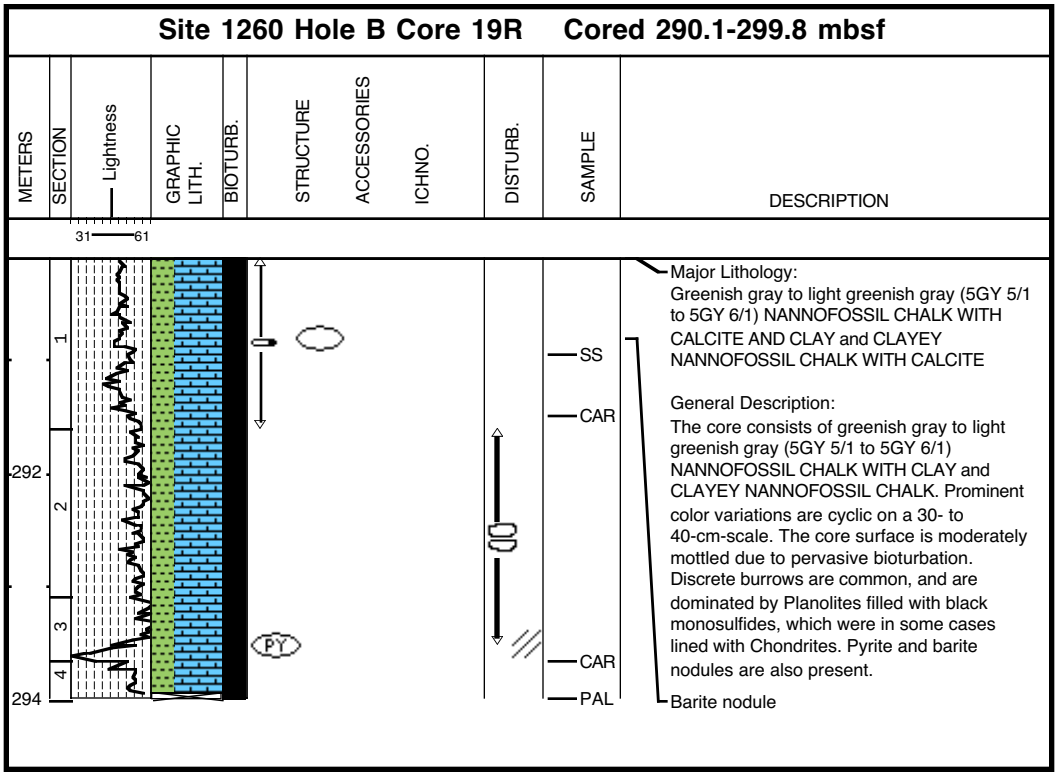
Core Photo


Site 1260 Hole B Core 17R Cored 270.9-280.5 mbsf
METERS
SECTION
Lightness
41
67
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
272
274
276
278
280
1
2
3
4
5
6
7
8
Py
SS
CAR
SS
SS
SS
SS
PAL
Major Lithology:
Light greenish gray (5GY 7/1) and greenish gray (5GY 6/1) NANNOFOSSIL FORAMINIFER CHALK
Minor Lithology:
Greenish gray (5GY 6/1) CLAY WITH ZEOLITES, NANNOFOSSIL CLAY WITH ZEOLITES and CLAYEY NANNOFOSSIL CHALK WITH ZEOLITES (Section 7, 56-73 cm), and PYRITE CONCRETIONS
General Description:
This core contains predominantly NANNOFOSSIL FORAMINIFER CHALK that is commonly to heavily bioturbated. Vague, dm-scale color cycles between light greenish gray and greenish gray are observed. In Section 7, 56-73 cm, a laminated greenish gray CLAY to CLAYEY CHALK interval with ZEOLITES was found. Both top and bottom contacts with the NANNOFOSSIL FORAMINIFER CHALK appear to be gradual, with laminations within the CHALK at the base, and mixing (bioturbation) of CLAY and CHALK at top. PYRITE concretions are observed in the CHALK throughout this core.

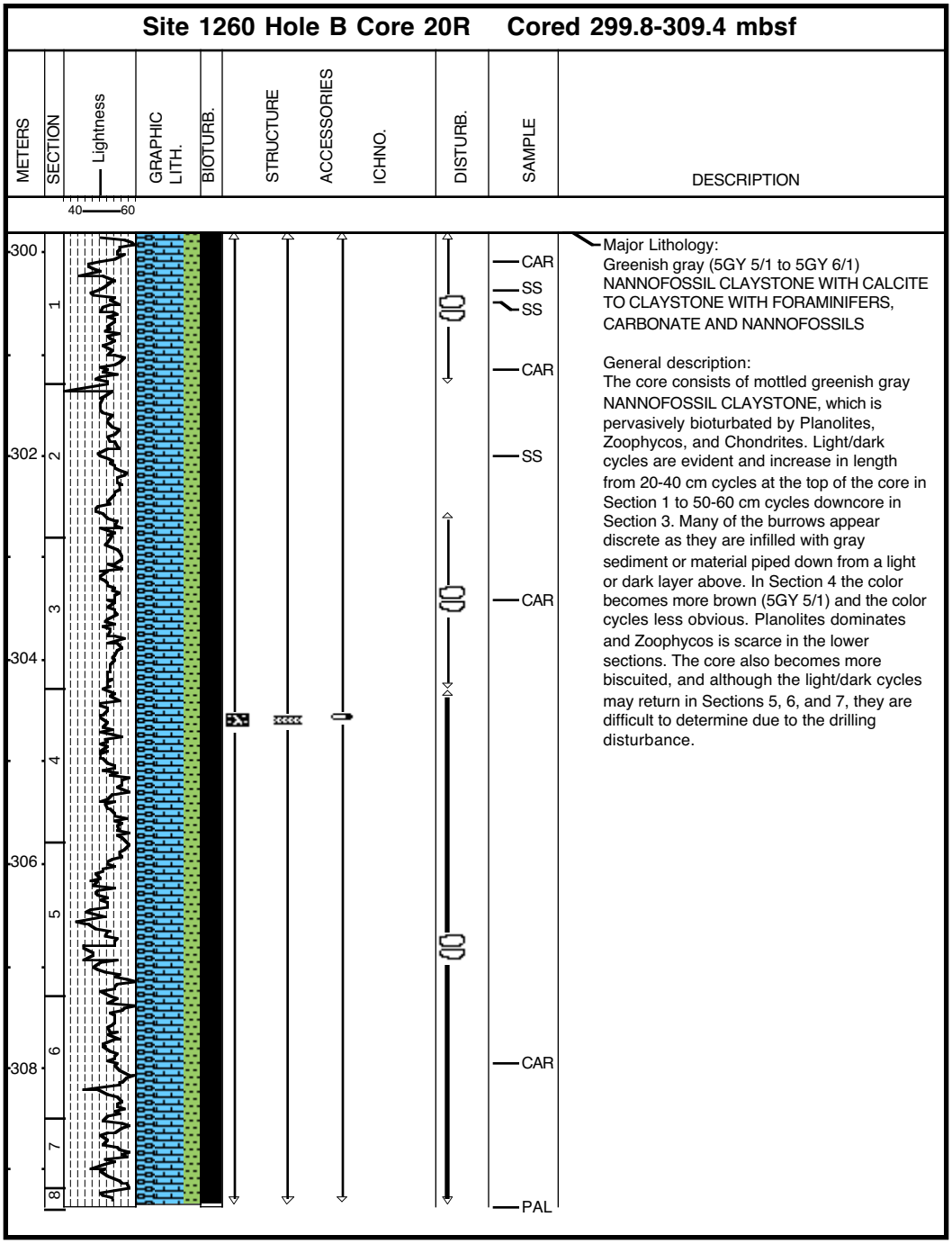
Core Photo


Site 1260 Hole B Core 18R Cored 280.5-290.1 mbsf
METERS
SECTION
Lightness
38
60
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
282
284
286
288
1
2
3
4
5
6
7
Py
Py
Py
SS
PAL
Major Lithology:
Greenish gray (10GY 6/1) CALCAREOUS SILTSTONE (NANNOFOSSIL CHALK WITH CALCITE)
General Description:
The sediment displays common to abundant bioturbation, with distinct (black) burrows. Zoophycos trace fossils are abundant. PYRITE concretions are present in Section 1. Vague color cycles can be discerned, although no Munsell color change is recorded. Sections 5 and 6 are biscuited.

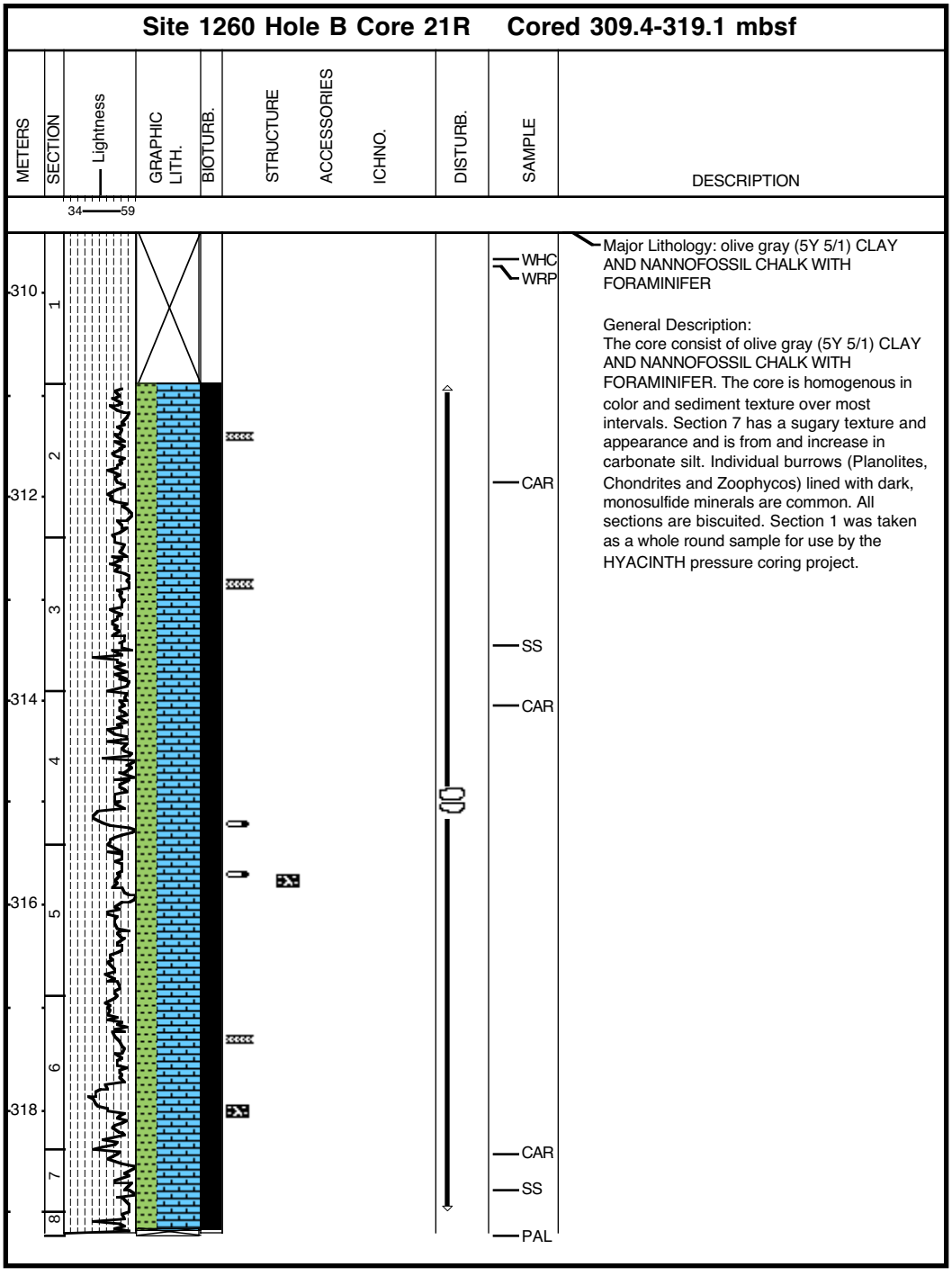
Core Photo


Site 1260 Hole B Core 19R Cored 290.1-299.8 mbsf
METERS
SECTION
Lightness
31
61
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
292
294
1
2
3
4
PY
SS
CAR
CAR
PAL
Major Lithology:
Greenish gray to light greenish gray (5GY 5/1 to 5GY 6/1) NANNOFOSSIL CHALK WITH CALCITE AND CLAY and CLAYEY NANNOFOSSIL CHALK WITH CALCITE
General Description:
The core consists of greenish gray to light greenish gray (5GY 5/1 to 5GY 6/1) NANNOFOSSIL CHALK WITH CLAY and CLAYEY NANNOFOSSIL CHALK. Prominent color variations are cyclic on a 30- to 40-cm-scale. The core surface is moderately mottled due to pervasive bioturbation. Discrete burrows are common, and are dominated by Planolites filled with black monosulfides, which were in some cases lined with Chondrites. Pyrite and barite nodules are also present.
Barite nodule

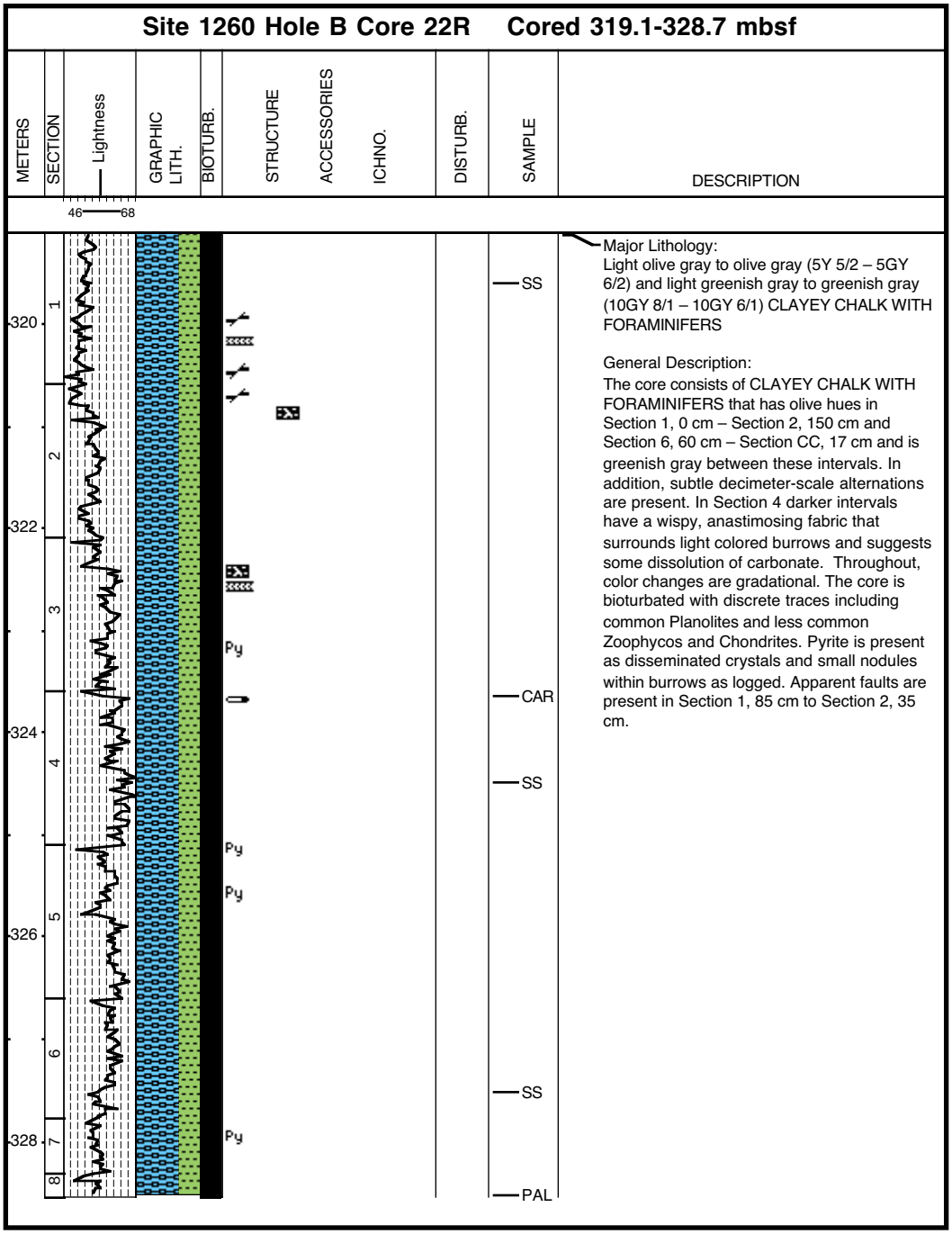
Core Photo


Site 1260 Hole B Core 20R Cored 299.8-309.4 mbsf
METERS
SECTION
Lightness
40
60
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
300
302
304
306
308
1
2
3
4
5
6
7
8
CAR
SS
SS
CAR
SS
CAR
CAR
PAL
Major Lithology:
Greenish gray (5GY 5/1 to 5GY 6/1) NANNOFOSSIL CLAYSTONE WITH CALCITE TO CLAYSTONE WITH FORAMINIFERS, CARBONATE AND NANNOFOSSILS
General description:
The core consists of mottled greenish gray NANNOFOSSIL CLAYSTONE, which is pervasively bioturbated by Planolites, Zoophycos, and Chondrites. Light/dark cycles are evident and increase in length from 20-40 cm cycles at the top of the core in Section 1 to 50-60 cm cycles downcore in Section 3. Many of the burrows appear discrete as they are infilled with gray sediment or material piped down from a light or dark layer above. In Section 4 the color becomes more brown (5GY 5/1) and the color cycles less obvious. Planolites dominates and Zoophycos is scarce in the lower sections. The core also becomes more biscuited, and although the light/dark cycles may return in Sections 5, 6, and 7, they are difficult to determine due to the drilling disturbance.

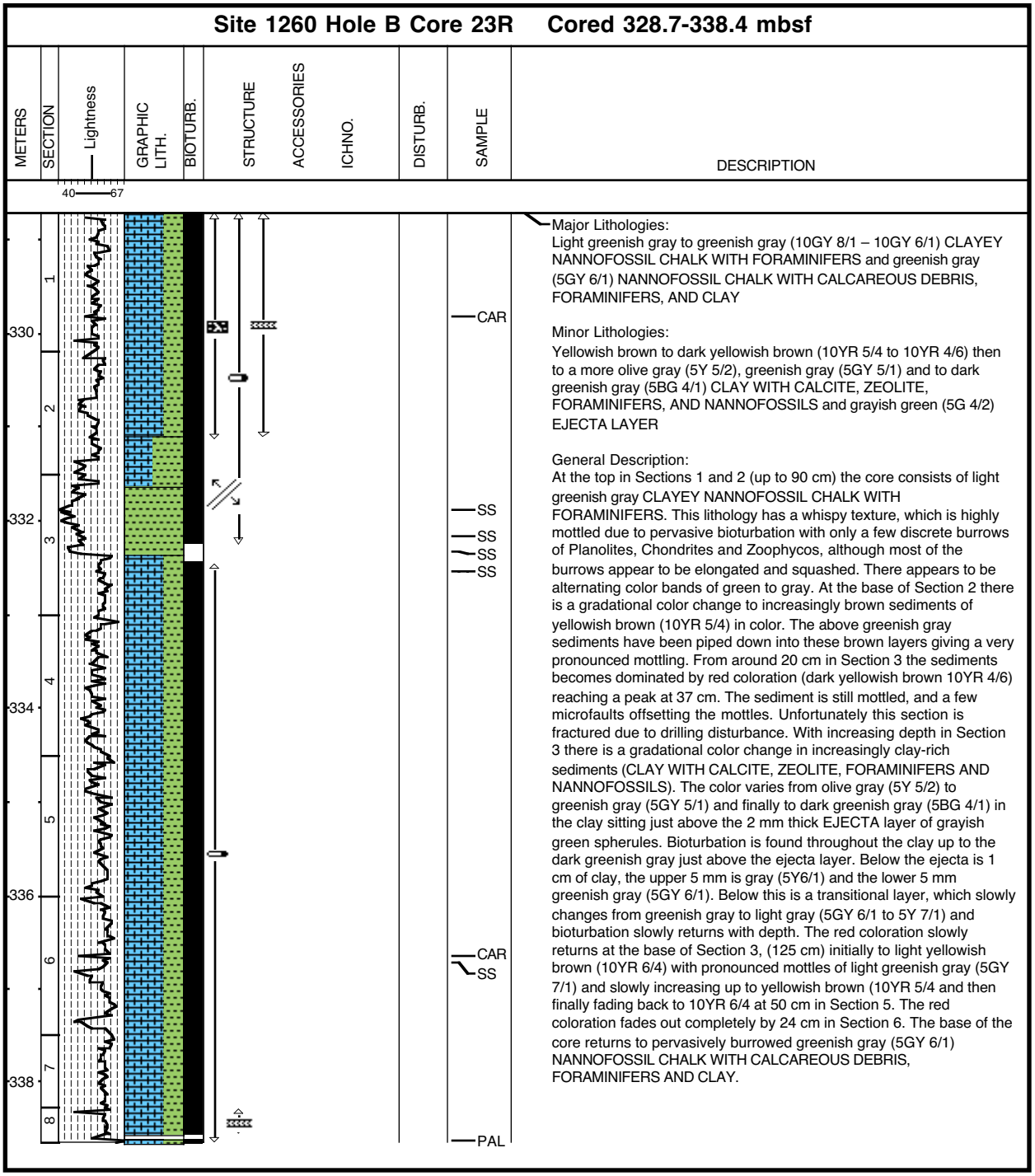
Core Photo


Site 1260 Hole B Core 21R Cored 309.4-319.1 mbsf
METERS
SECTION
Lightness
34
59
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
310
312
314
316
318
1
2
3
4
5
6
7
8
WHC
WRP
CAR
SS
CAR
CAR
SS
PAL
Major Lithology: olive gray (5Y 5/1) CLAY AND NANNOFOSSIL CHALK WITH FORAMINIFER
General Description:
The core consist of olive gray (5Y 5/1) CLAY AND NANNOFOSSIL CHALK WITH FORAMINIFER. The core is homogenous in color and sediment texture over most intervals. Section 7 has a sugary texture and appearance and is from and increase in carbonate silt. Individual burrows (Planolites, Chondrites and Zoophycos) lined with dark, monosulfide minerals are common. All sections are biscuited. Section 1 was taken as a whole round sample for use by the HYACINTH pressure coring project.

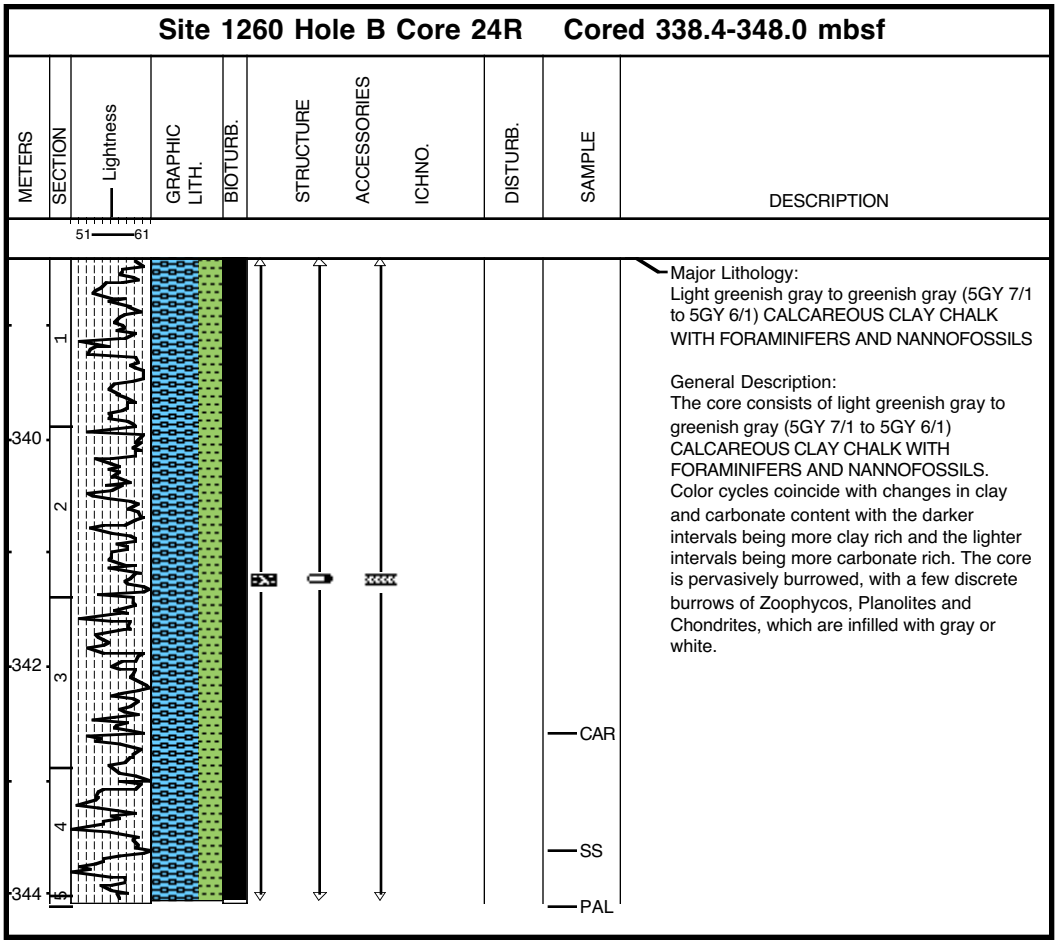
Core Photo


Site 1260 Hole B Core 22R Cored 319.1-328.7 mbsf
METERS
SECTION
Lightness
46
68
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
320
322
324
326
328
1
2
3
4
5
6
7
8
Py
Py
Py
Py
SS
CAR
SS
SS
PAL
Major Lithology:
Light olive gray to olive gray (5Y 5/2 – 5GY 6/2) and light greenish gray to greenish gray (10GY 8/1 – 10GY 6/1) CLAYEY CHALK WITH FORAMINIFERS
General Description:
The core consists of CLAYEY CHALK WITH FORAMINIFERS that has olive hues in Section 1, 0 cm – Section 2, 150 cm and Section 6, 60 cm – Section CC, 17 cm and is greenish gray between these intervals. In addition, subtle decimeter-scale alternations are present. In Section 4 darker intervals have a wispy, anastimosing fabric that surrounds light colored burrows and suggests some dissolution of carbonate. Throughout, color changes are gradational. The core is bioturbated with discrete traces including common Planolites and less common Zoophycos and Chondrites. Pyrite is present as disseminated crystals and small nodules within burrows as logged. Apparent faults are present in Section 1, 85 cm to Section 2, 35 cm.

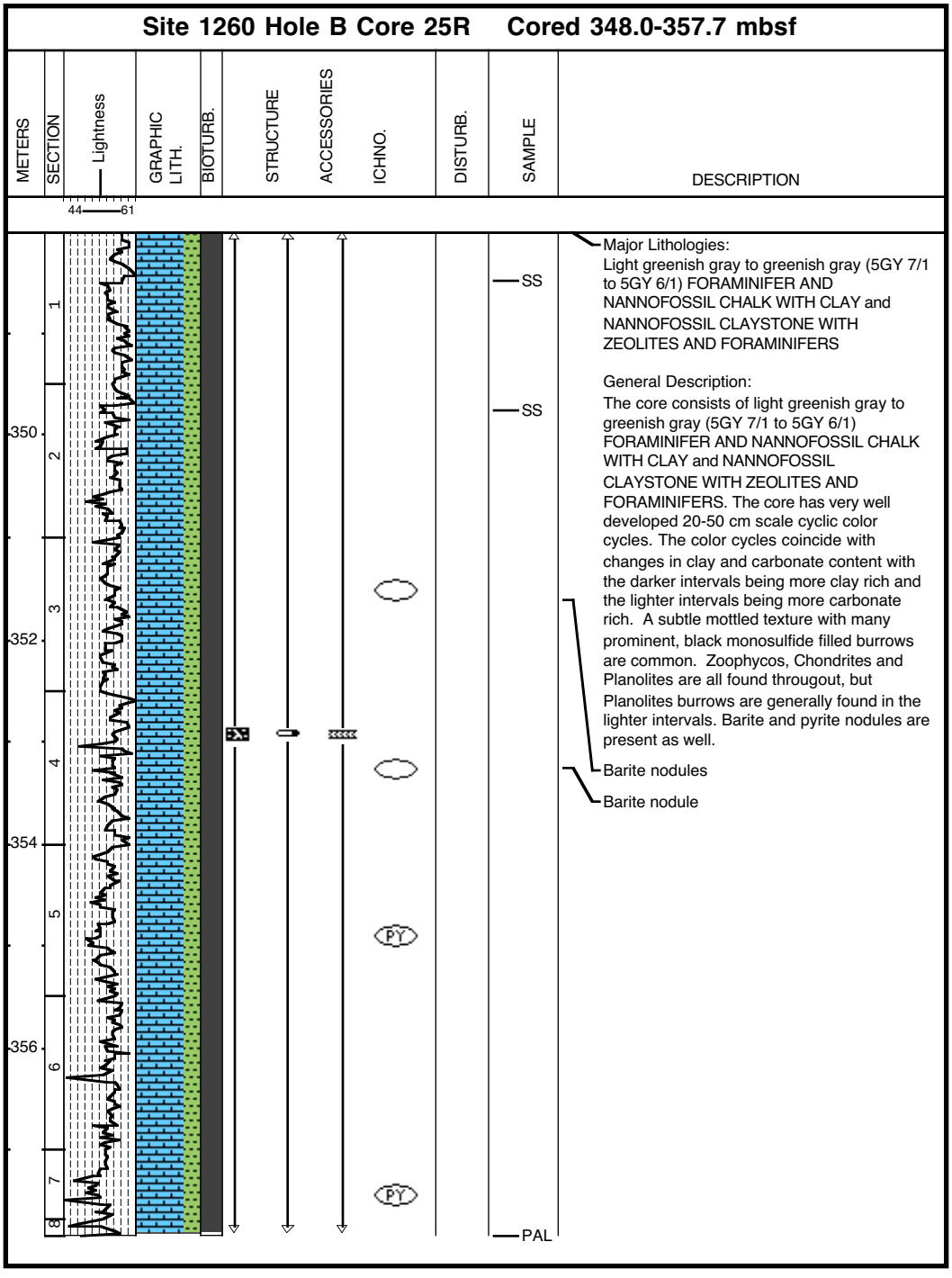
Core Photo


Site 1260 Hole B Core 23R Cored 328.7-338.4 mbsf
METERS
SECTION
Lightness
40
67
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
330
332
334
336
338
1
2
3
4
5
6
7
8
CAR
SS
SS
SS
SS
CAR
SS
PAL
Major Lithologies:
Light greenish gray to greenish gray (10GY 8/1 – 10GY 6/1) CLAYEY NANNOFOSSIL CHALK WITH FORAMINIFERS and greenish gray (5GY 6/1) NANNOFOSSIL CHALK WITH CALCAREOUS DEBRIS, FORAMINIFERS, AND CLAY
Minor Lithologies:
Yellowish brown to dark yellowish brown (10YR 5/4 to 10YR 4/6) then to a more olive gray (5Y 5/2), greenish gray (5GY 5/1) and to dark greenish gray (5BG 4/1) CLAY WITH CALCITE, ZEOLITE, FORAMINIFERS, AND NANNOFOSSILS and grayish green (5G 4/2) EJECTA LAYER
General Description:
At the top in Sections 1 and 2 (up to 90 cm) the core consists of light greenish gray CLAYEY NANNOFOSSIL CHALK WITH FORAMINIFERS. This lithology has a whispy texture, which is highly mottled due to pervasive bioturbation with only a few discrete burrows of Planolites, Chondrites and Zoophycos, although most of the burrows appear to be elongated and squashed. There appears to be alternating color bands of green to gray. At the base of Section 2 there is a gradational color change to increasingly brown sediments of yellowish brown (10YR 5/4) in color. The above greenish gray sediments have been piped down into these brown layers giving a very pronounced mottling. From around 20 cm in Section 3 the sediments becomes dominated by red coloration (dark yellowish brown 10YR 4/6) reaching a peak at 37 cm. The sediment is still mottled, and a few microfaults offsetting the mottles. Unfortunately this section is fractured due to drilling disturbance. With increasing depth in Section 3 there is a gradational color change in increasingly clay-rich sediments (CLAY WITH CALCITE, ZEOLITE, FORAMINIFERS AND NANNOFOSSILS). The color varies from olive gray (5Y 5/2) to greenish gray (5GY 5/1) and finally to dark greenish gray (5BG 4/1) in the clay sitting just above the 2 mm thick EJECTA layer of grayish green spherules. Bioturbation is found throughout the clay up to the dark greenish gray just above the ejecta layer. Below the ejecta is 1 cm of clay, the upper 5 mm is gray (5Y6/1) and the lower 5 mm greenish gray (5GY 6/1). Below this is a transitional layer, which slowly changes from greenish gray to light gray (5GY 6/1 to 5Y 7/1) and bioturbation slowly returns with depth. The red coloration slowly returns at the base of Section 3, (125 cm) initially to light yellowish brown (10YR 6/4) with pronounced mottles of light greenish gray (5GY 7/1) and slowly increasing up to yellowish brown (10YR 5/4 and then finally fading back to 10YR 6/4 at 50 cm in Section 5. The red coloration fades out completely by 24 cm in Section 6. The base of the core returns to pervasively burrowed greenish gray (5GY 6/1) NANNOFOSSIL CHALK WITH CALCAREOUS DEBRIS, FORAMINIFERS AND CLAY.

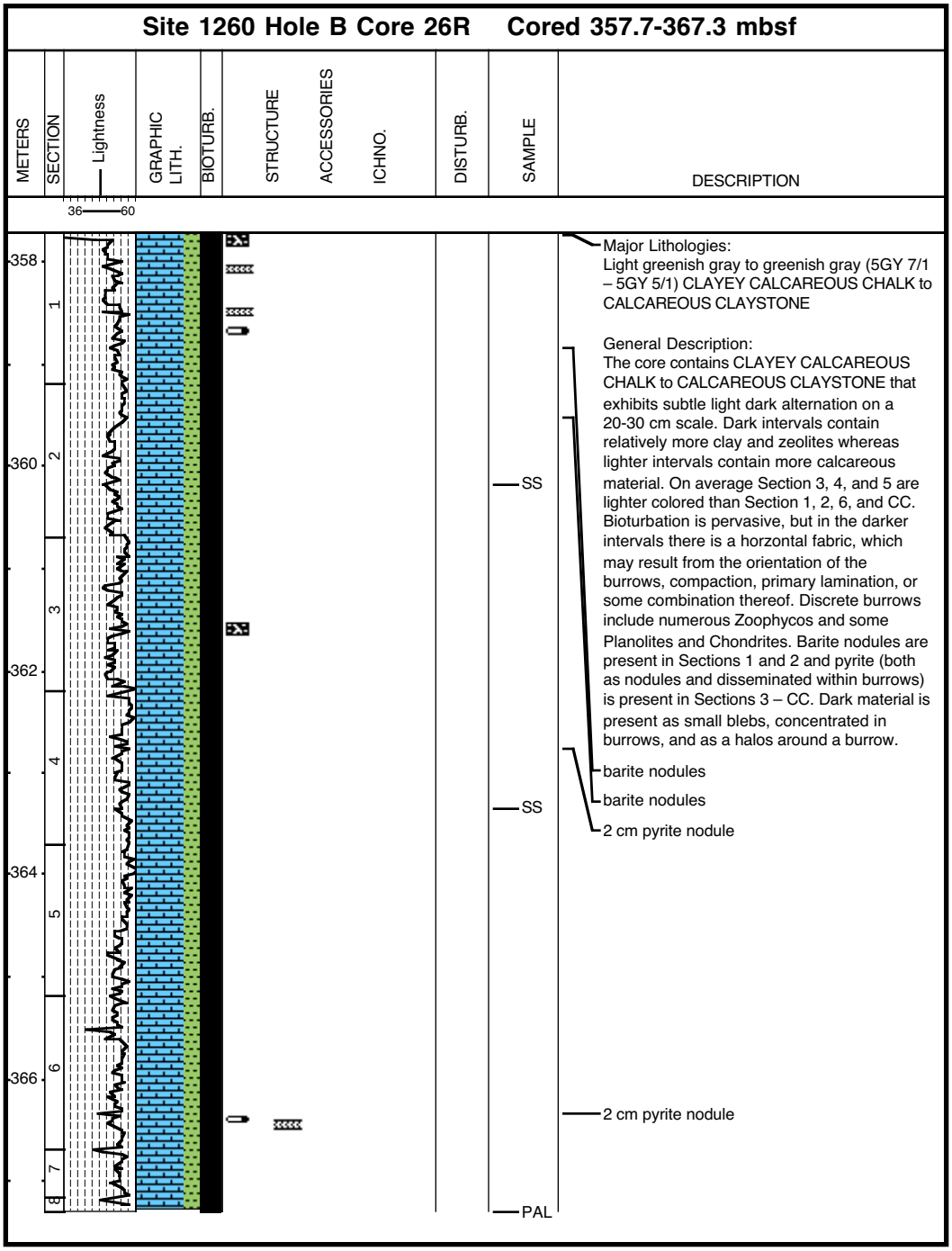
Core Photo


Site 1260 Hole B Core 24R Cored 338.4-348.0 mbsf
METERS
SECTION
Lightness
51
61
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
340
342
344
1
2
3
4
5
CAR
SS
PAL
Major Lithology:
Light greenish gray to greenish gray (5GY 7/1 to 5GY 6/1) CALCAREOUS CLAY CHALK WITH FORAMINIFERS AND NANNOFOSSILS
General Description:
The core consists of light greenish gray to greenish gray (5GY 7/1 to 5GY 6/1) CALCAREOUS CLAY CHALK WITH FORAMINIFERS AND NANNOFOSSILS. Color cycles coincide with changes in clay and carbonate content with the darker intervals being more clay rich and the lighter intervals being more carbonate rich. The core is pervasively burrowed, with a few discrete burrows of Zoophycos, Planolites and Chondrites, which are infilled with gray or white.

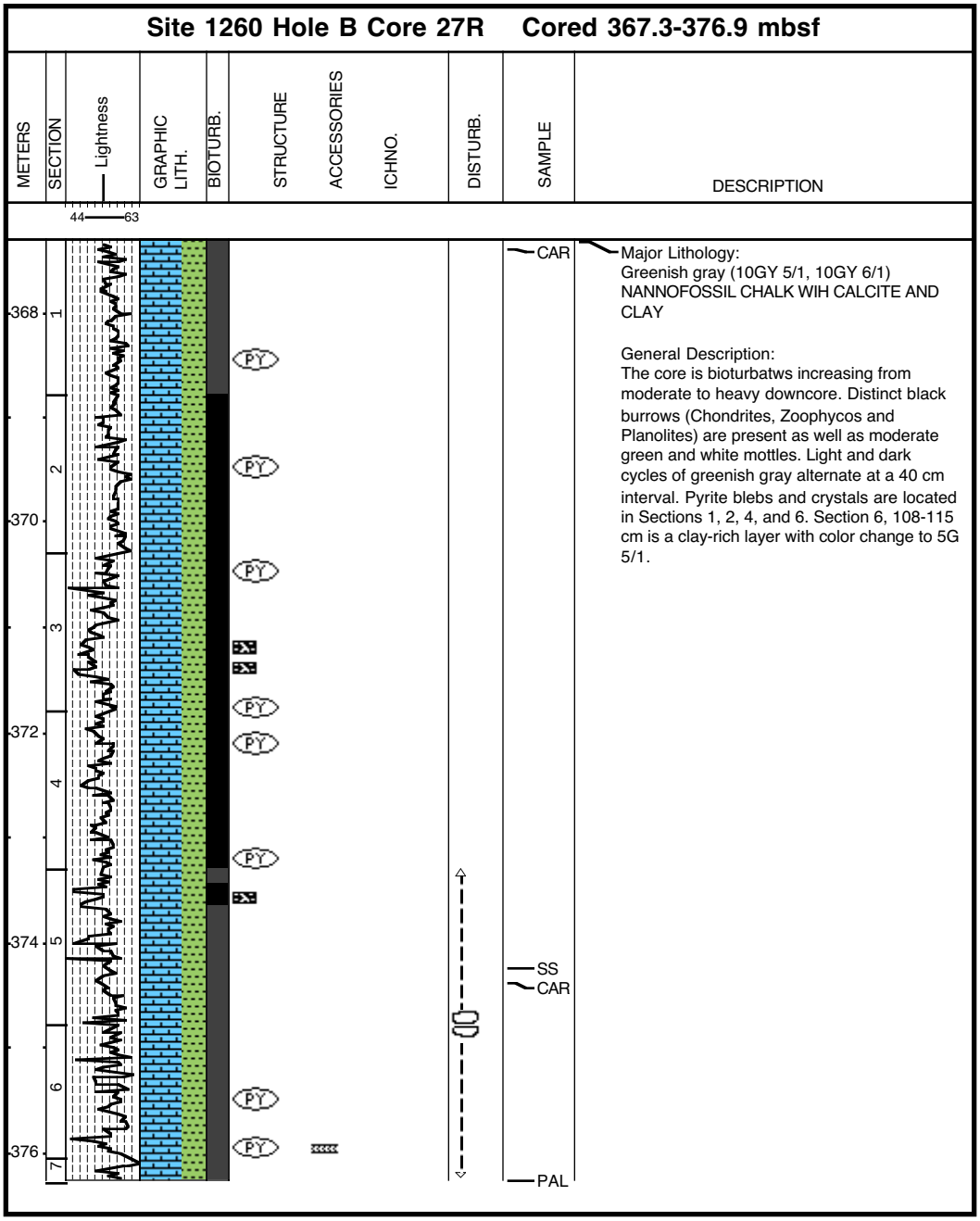
Core Photo


Site 1260 Hole B Core 25R Cored 348.0-357.7 mbsf
METERS
SECTION
Lightness
44
61
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
350
352
354
356
1
2
3
4
5
6
7
8
SS
SS
PY
PY
PAL
Major Lithologies:
Light greenish gray to greenish gray (5GY 7/1 to 5GY 6/1) FORAMINIFER AND NANNOFOSSIL CHALK WITH CLAY and NANNOFOSSIL CLAYSTONE WITH ZEOLITES AND FORAMINIFERS
General Description:
The core consists of light greenish gray to greenish gray (5GY 7/1 to 5GY 6/1) FORAMINIFER AND NANNOFOSSIL CHALK WITH CLAY and NANNOFOSSIL CLAYSTONE WITH ZEOLITES AND FORAMINIFERS. The core has very well developed 20-50 cm scale cyclic color cycles. The color cycles coincide with changes in clay and carbonate content with the darker intervals being more clay rich and the lighter intervals being more carbonate rich. A subtle mottled texture with many prominent, black monosulfide filled burrows are common. Zoophycos, Chondrites and Planolites are all found througout, but Planolites burrows are generally found in the lighter intervals. Barite and pyrite nodules are present as well.
Barite nodules
Barite nodule

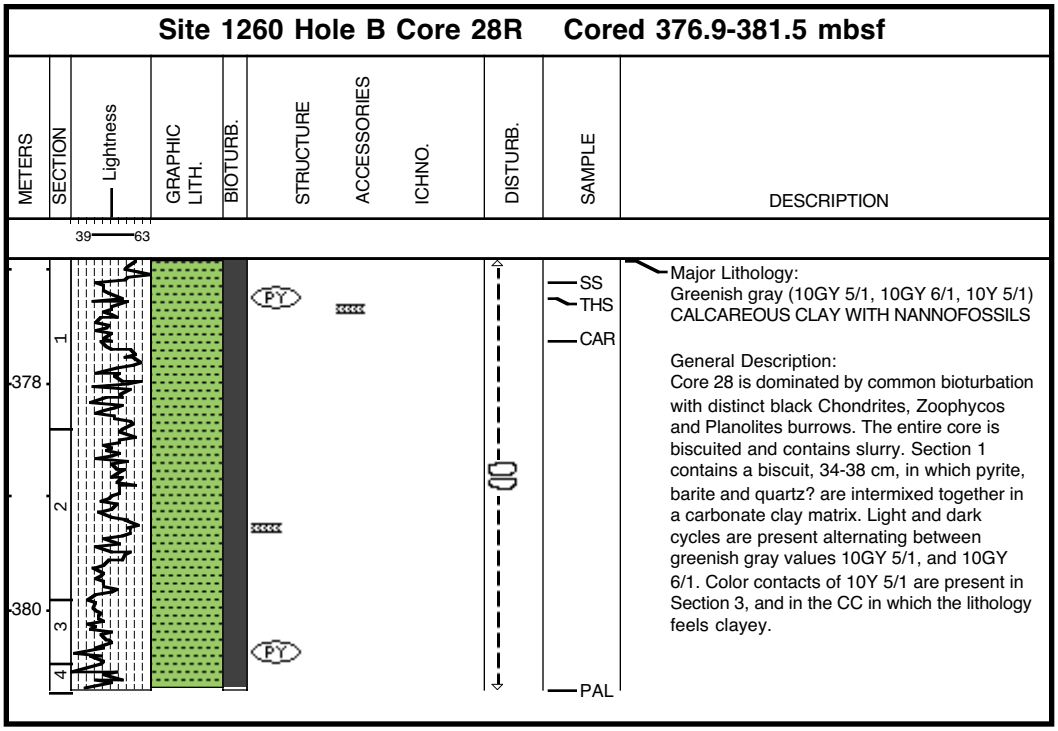
Core Photo


Site 1260 Hole B Core 26R Cored 357.7-367.3 mbsf
METERS
SECTION
Lightness
36
60
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
358
360
362
364
366
1
2
3
4
5
6
7
CC
SS
SS
PAL
Major Lithologies:
Light greenish gray to greenish gray (5GY 7/1 – 5GY 5/1) CLAYEY CALCAREOUS CHALK to CALCAREOUS CLAYSTONE
General Description:
The core contains CLAYEY CALCAREOUS CHALK to CALCAREOUS CLAYSTONE that exhibits subtle light dark alternation on a 20-30 cm scale. Dark intervals contain relatively more clay and zeolites whereas lighter intervals contain more calcareous material. On average Section 3, 4, and 5 are lighter colored than Section 1, 2, 6, and CC. Bioturbation is pervasive, but in the darker intervals there is a horzontal fabric, which may result from the orientation of the burrows, compaction, primary lamination, or some combination thereof. Discrete burrows include numerous Zoophycos and some Planolites and Chondrites. Barite nodules are present in Sections 1 and 2 and pyrite (both as nodules and disseminated within burrows) is present in Sections 3 – CC. Dark material is present as small blebs, concentrated in burrows, and as a halos around a burrow.
barite nodules
barite nodules
2 cm pyrite nodule
2 cm pyrite nodule

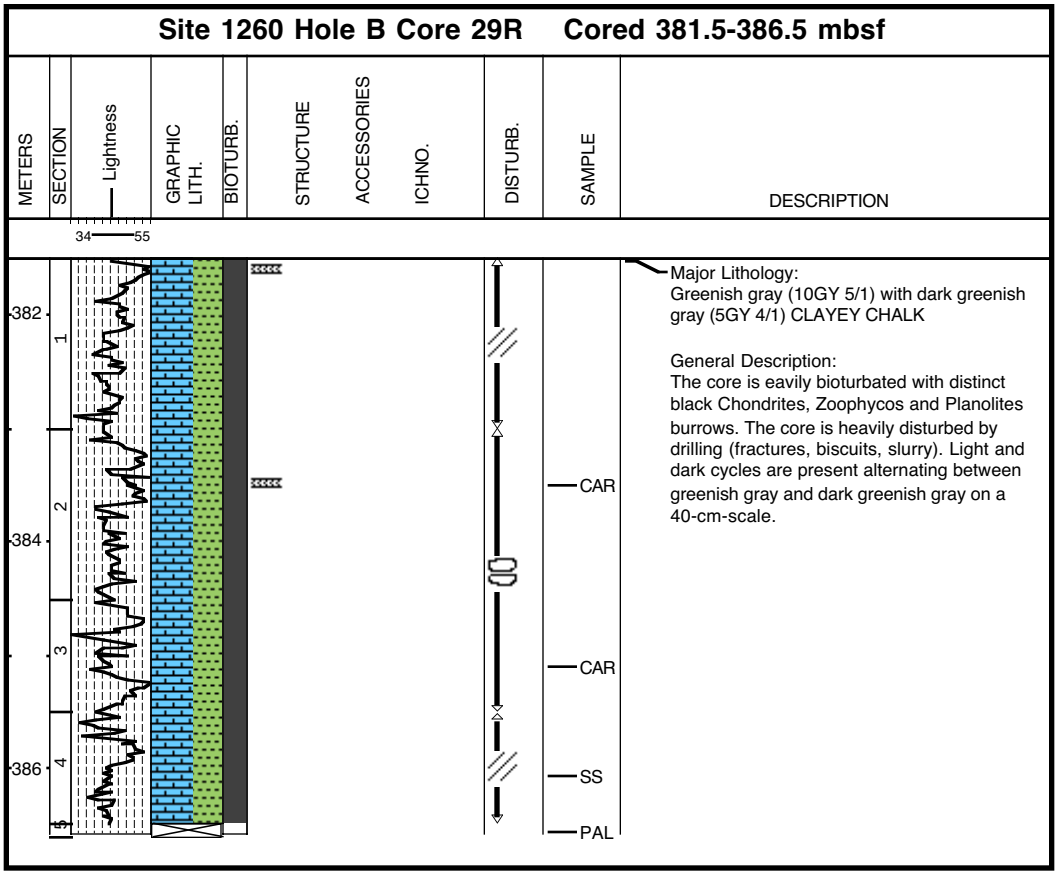
Core Photo


Site 1260 Hole B Core 27R Cored 367.3-376.9 mbsf
METERS
SECTION
Lightness
44
63
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
368
370
372
374
376
1
2
3
4
5
6
7
PY
CAR
SS
CAR
PAL
Major Lithology:
Greenish gray (10GY 5/1, 10GY 6/1)
NANNOFOSSIL CHALK WIH CALCITE AND CLAY
General Description:
The core is bioturbatws increasing from moderate to heavy downcore. Distinct black burrows (Chondrites, Zoophycos and Planolites) are present as well as moderate green and white mottles. Light and dark cycles of greenish gray alternate at a 40 cm interval. Pyrite blebs and crystals are located in Sections 1, 2, 4, and 6. Section 6, 108-115 cm is a clay-rich layer with color change to 5G 5/1.

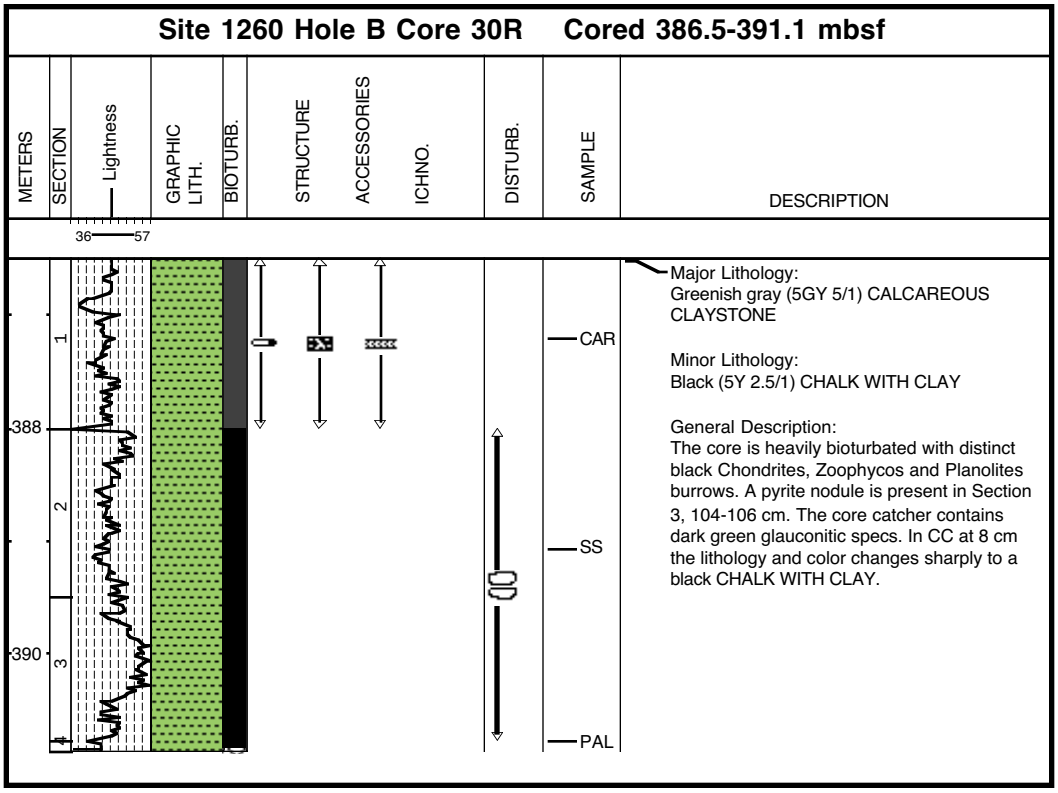
Core Photo


Site 1260 Hole B Core 28R Cored 376.9-381.5 mbsf
METERS
SECTION
Lightness
39
63
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
378
380
1
2
3
4
PY
PY
SS
THS
CAR
PAL
Major Lithology:
Greenish gray (10GY 5/1, 10GY 6/1, 10Y 5/1)
CALCAREOUS CLAY WITH NANNOFOSSILS
General Description:
Core 28 is dominated by common bioturbation with distinct black Chondrites, Zoophycos and Planolites burrows. The entire core is biscuited and contains slurry. Section 1 contains a biscuit, 34-38 cm, in which pyrite, barite and quartz? are intermixed together in a carbonate clay matrix. Light and dark cycles are present alternating between greenish gray values 10GY 5/1, and 10GY 6/1. Color contacts of 10Y 5/1 are present in Section 3, and in the CC in which the lithology feels clayey.

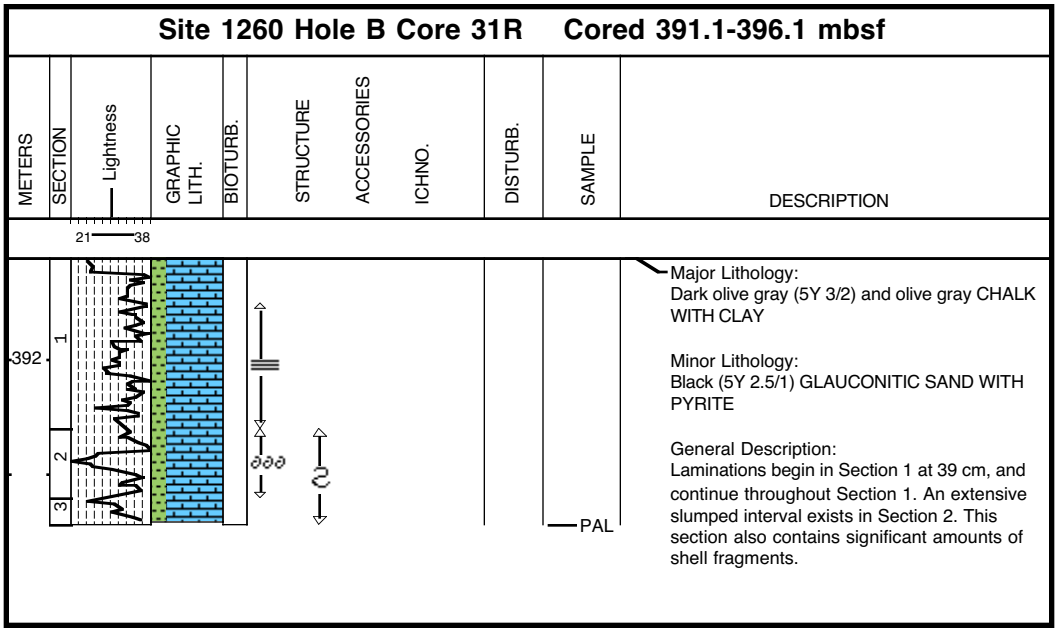
Core Photo


Site 1260 Hole B Core 29R Cored 381.5-386.5 mbsf
METERS
SECTION
Lightness
34
55
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
382
384
386
1
2
3
4
5
CAR
CAR
SS
PAL
Major Lithology:
Greenish gray (10GY 5/1) with dark greenish gray (5GY 4/1) CLAYEY CHALK
General Description:
The core is eavily bioturbated with distinct black Chondrites, Zoophycos and Planolites burrows. The core is heavily disturbed by drilling (fractures, biscuits, slurry). Light and dark cycles are present alternating between greenish gray and dark greenish gray on a 40-cm-scale.

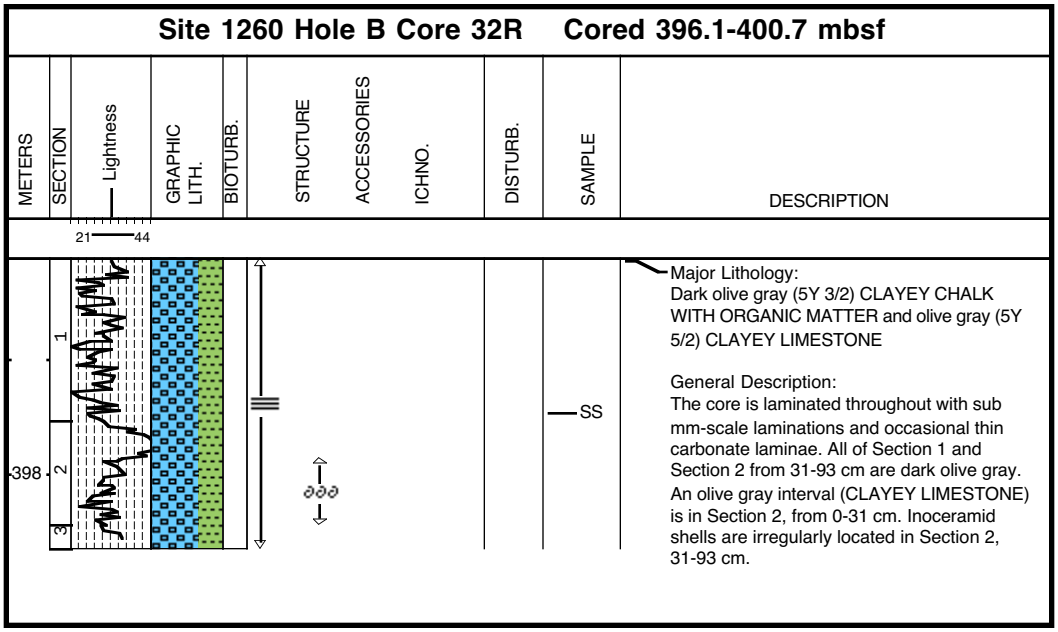
Core Photo


Site 1260 Hole B Core 30R Cored 386.5-391.1 mbsf
METERS
SECTION
Lightness
36
57
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
388
390
1
2
3
4
CAR
SS
PAL
Major Lithology:
Greenish gray (5GY 5/1) CALCAREOUS CLAYSTONE
Minor Lithology:
Black (5Y 2.5/1) CHALK WITH CLAY
General Description:
The core is heavily bioturbated with distinct black Chondrites, Zoophycos and Planolites burrows. A pyrite nodule is present in Section 3, 104-106 cm. The core catcher contains dark green glauconitic specs. In CC at 8 cm the lithology and color changes sharply to a black CHALK WITH CLAY.

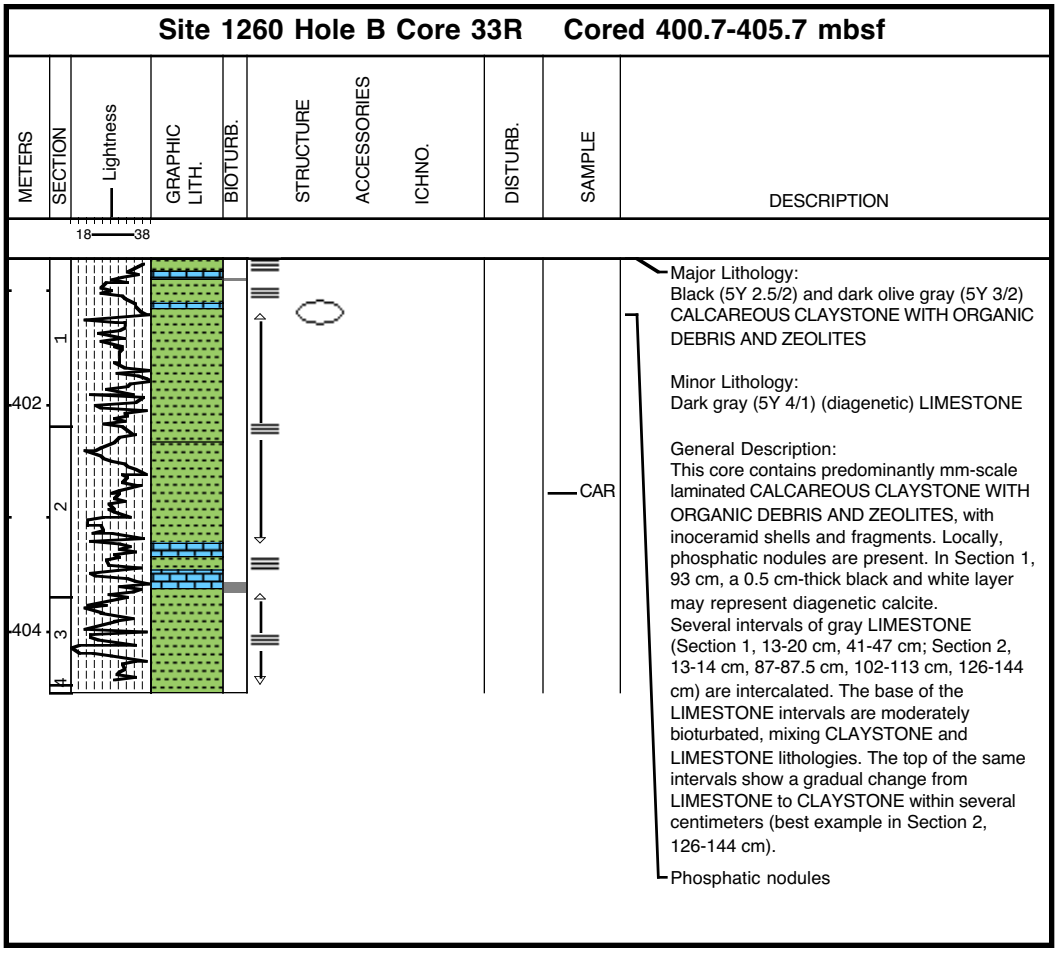
Core Photo


Site 1260 Hole B Core 31R Cored 391.1-396.1 mbsf
METERS
SECTION
Lightness
21
38
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
392
1
2
3
PAL
Major Lithology:
Dark olive gray (5Y 3/2) and olive gray CHALK WITH CLAY
Minor Lithology:
Black (5Y 2.5/1) GLAUCONITIC SAND WITH PYRITE
General Description:
Laminations begin in Section 1 at 39 cm, and continue throughout Section 1. An extensive slumped interval exists in Section 2. This section also contains significant amounts of shell fragments.

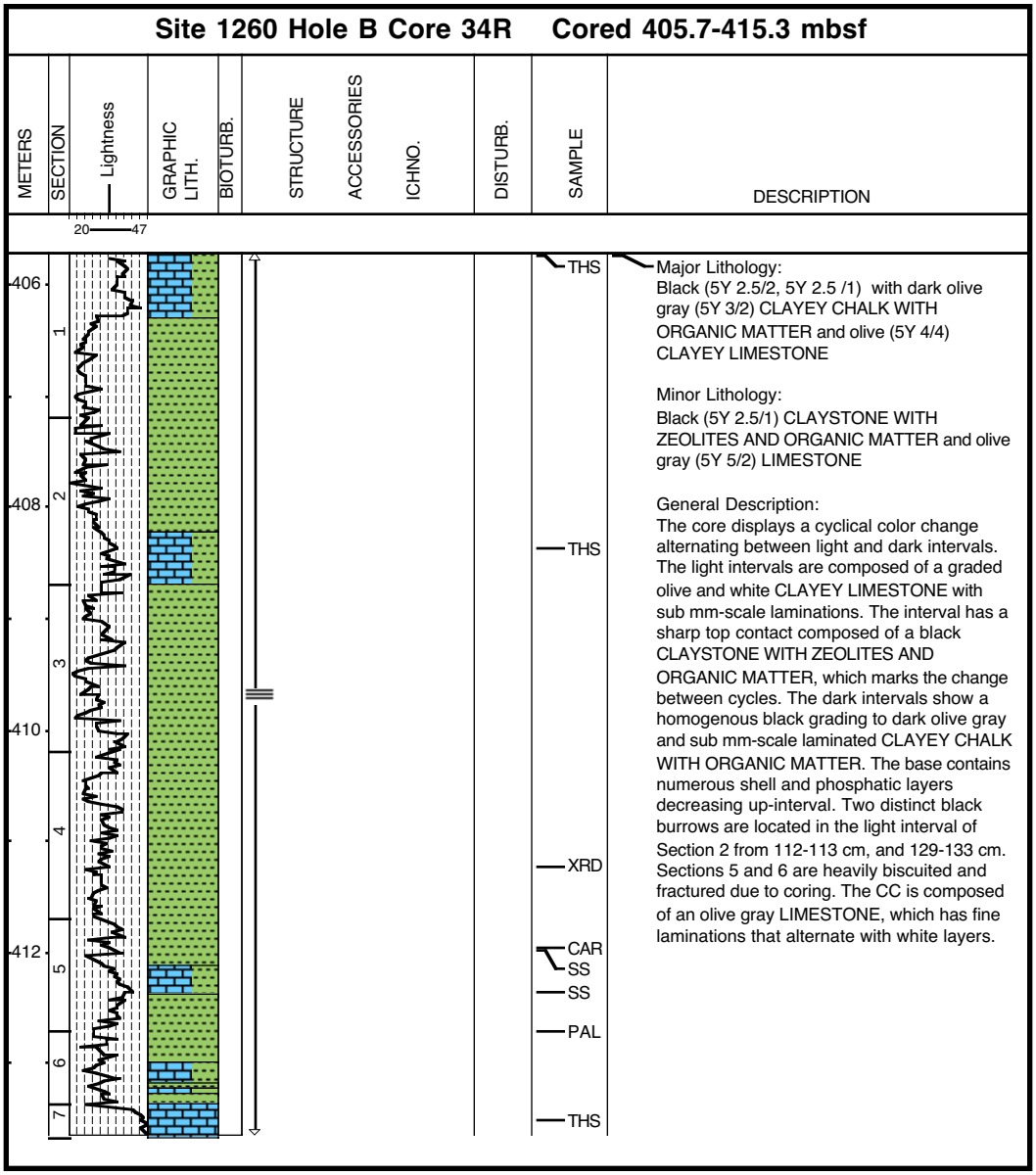
Core Photo


Site 1260 Hole B Core 32R Cored 396.1-400.7 mbsf
METERS
SECTION
Lightness
21
44
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
398
1
2
3
SS
Major Lithology:
Dark olive gray (5Y 3/2) CLAYEY CHALK WITH ORGANIC MATTER and olive gray (5Y 5/2) CLAYEY LIMESTONE
General Description:
The core is laminated throughout with sub mm-scale laminations and occasional thin carbonate laminae. All of Section 1 and Section 2 from 31-93 cm are dark olive gray. An olive gray interval (CLAYEY LIMESTONE) is in Section 2, from 0-31 cm. Inoceramid shells are irregularly located in Section 2, 31-93 cm.

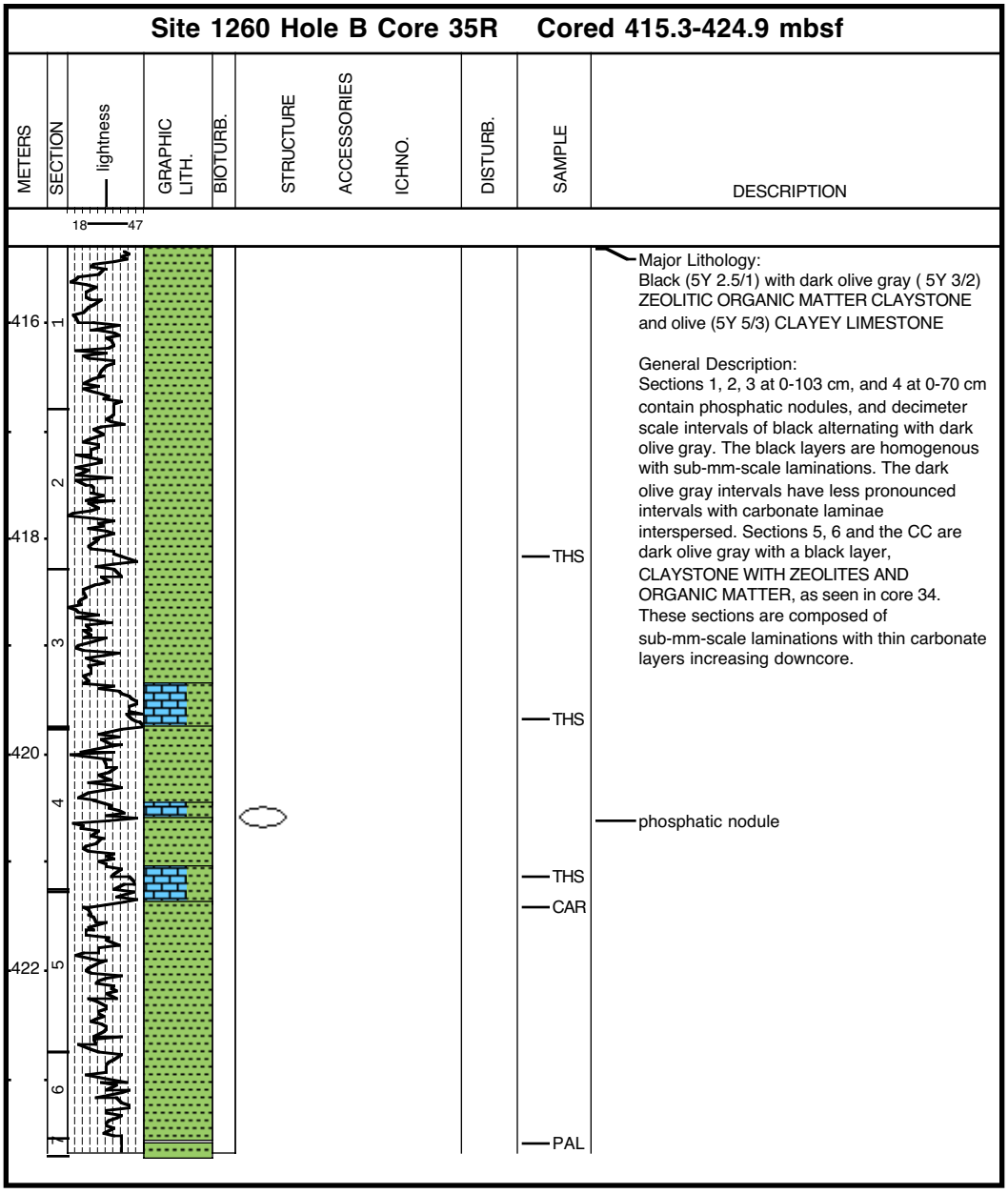
Core Photo


Site 1260 Hole B Core 33R Cored 400.7-405.7 mbsf
METERS
SECTION
Lightness
18
38
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
402
404
1
2
3
4
CAR
Major Lithology:
Black (5Y 2.5/2) and dark olive gray (5Y 3/2) CALCAREOUS CLAYSTONE WITH ORGANIC DEBRIS AND ZEOLITES
Minor Lithology:
Dark gray (5Y 4/1) (diagenetic) LIMESTONE
General Description:
This core contains predominantly mm-scale laminated CALCAREOUS CLAYSTONE WITH ORGANIC DEBRIS AND ZEOLITES, with inoceramid shells and fragments. Locally, phosphatic nodules are present. In Section 1, 93 cm, a 0.5 cm-thick black and white layer may represent diagenetic calcite.
Several intervals of gray LIMESTONE (Section 1, 13-20 cm, 41-47 cm; Section 2, 13-14 cm, 87-87.5 cm, 102-113 cm, 126-144 cm) are intercalated. The base of the LIMESTONE intervals are moderately bioturbated, mixing CLAYSTONE and LIMESTONE lithologies. The top of the same intervals show a gradual change from LIMESTONE to CLAYSTONE within several centimeters (best example in Section 2, 126-144 cm).
Phosphatic nodules

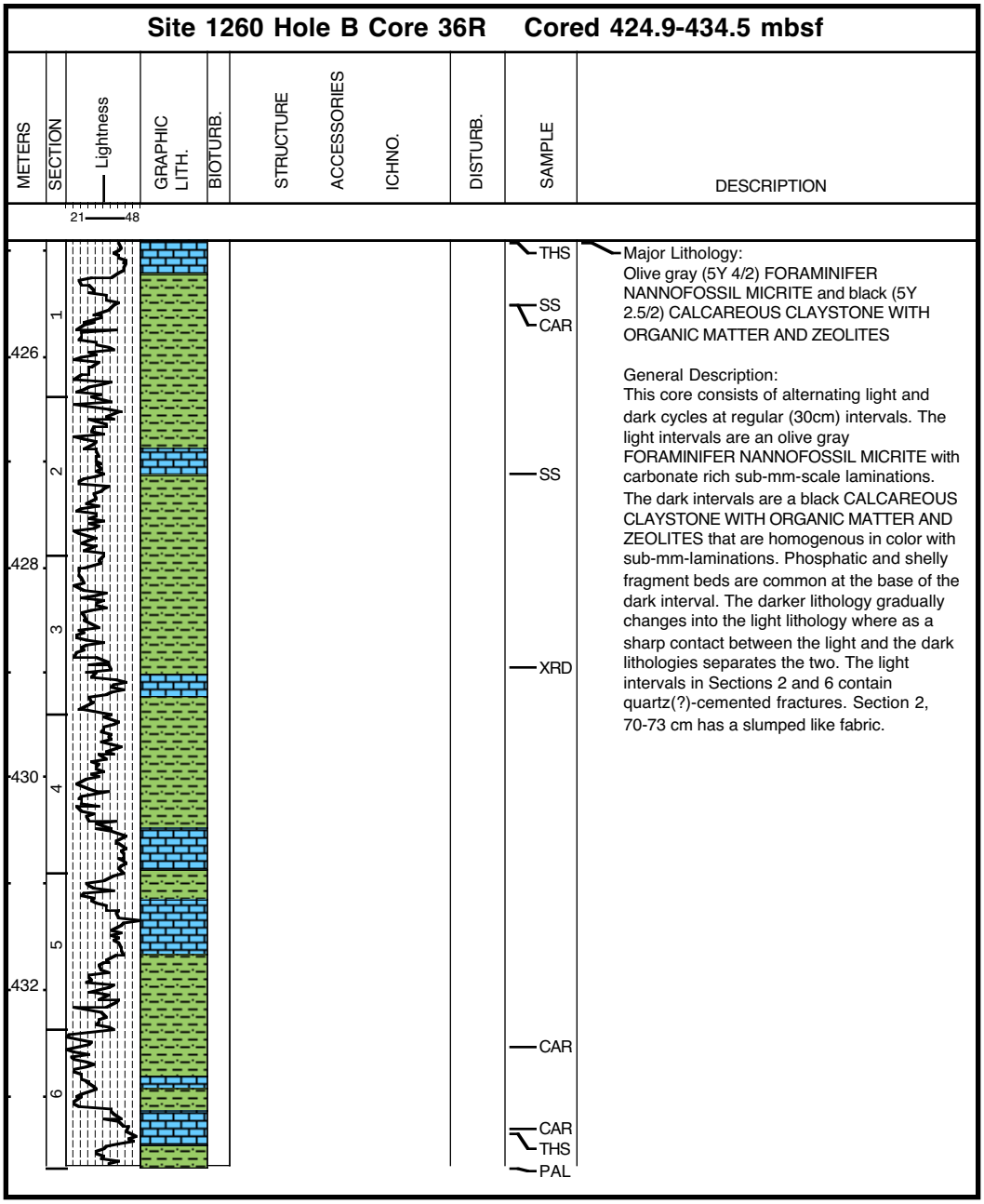
Core Photo


Site 1260 Hole B Core 34R Cored 405.7-415.3 mbsf
METERS
SECTION
Lightness
20
47
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
406
408
410
412
1
2
3
4
5
6
7
THS
THS
XRD
CAR
SS
SS
PAL
THS
Major Lithology:
Black (5Y 2.5/2, 5Y 2.5 /1) with dark olive gray (5Y 3/2) CLAYEY CHALK WITH ORGANIC MATTER and olive (5Y 4/4) CLAYEY LIMESTONE
Minor Lithology:
Black (5Y 2.5/1) CLAYSTONE WITH ZEOLITES AND ORGANIC MATTER and olive gray (5Y 5/2) LIMESTONE
General Description:
The core displays a cyclical color change alternating between light and dark intervals. The light intervals are composed of a graded olive and white CLAYEY LIMESTONE with sub mm-scale laminations. The interval has a sharp top contact composed of a black CLAYSTONE WITH ZEOLITES AND ORGANIC MATTER, which marks the change between cycles. The dark intervals show a homogenous black grading to dark olive gray and sub mm-scale laminated CLAYEY CHALK WITH ORGANIC MATTER. The base contains numerous shell and phosphatic layers decreasing up-interval. Two distinct black burrows are located in the light interval of Section 2 from 112-113 cm, and 129-133 cm. Sections 5 and 6 are heavily biscuited and fractured due to coring. The CC is composed of an olive gray LIMESTONE, which has fine laminations that alternate with white layers.

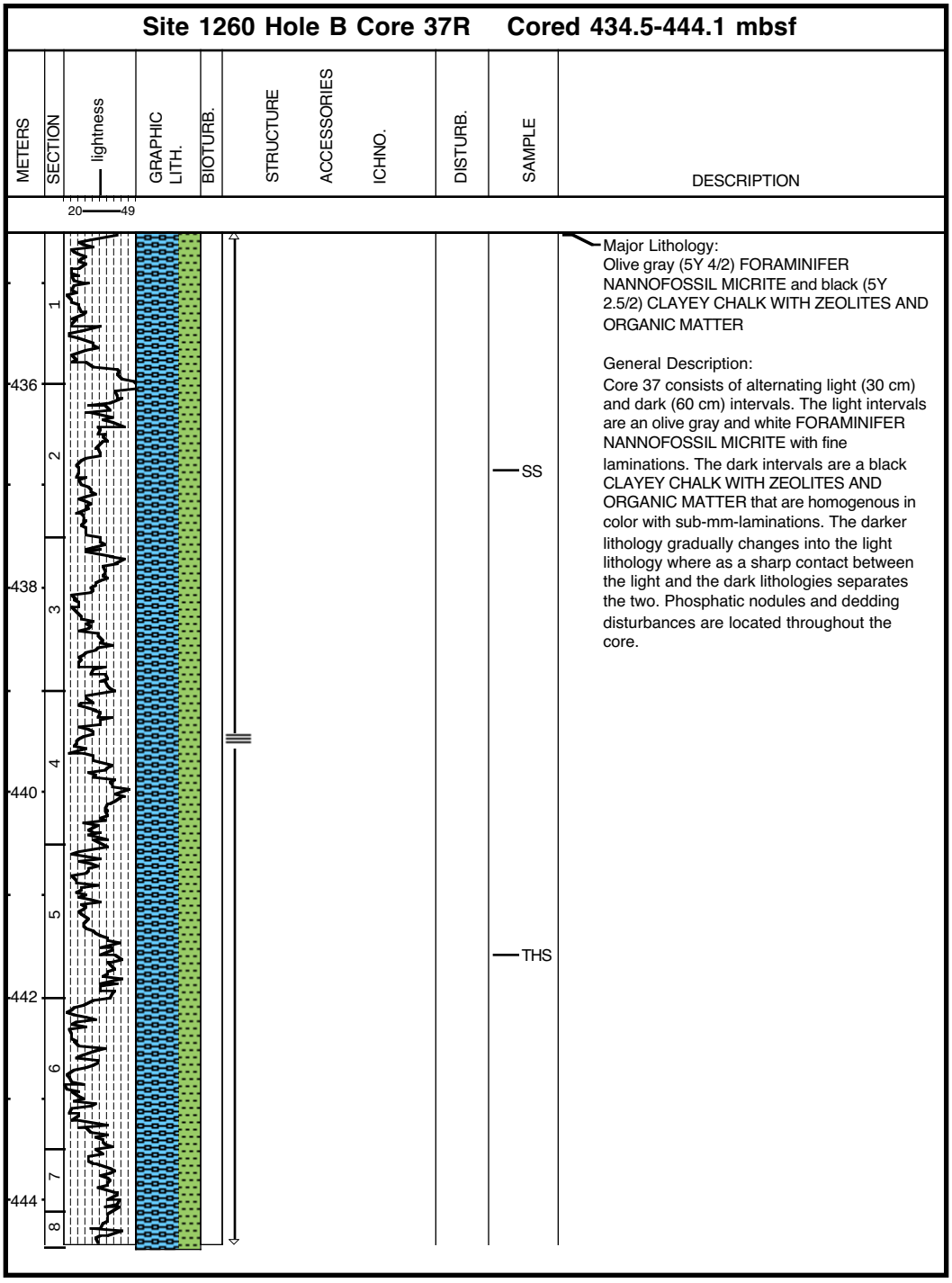
Core Photo


Site 1260 Hole B Core 35R Cored 415.3-424.9 mbsf
METERS
SECTION
lightness
18
47
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
416
418
420
422
1
2
3
4
5
6
7
THS
THS
THS
CAR
PAL
phosphatic nodule
Major Lithology:
Black (5Y 2.5/1) with dark olive gray (5Y 3/2) ZEOLITIC ORGANIC MATTER CLAYSTONE and olive (5Y 5/3) CLAYEY LIMESTONE
General Description:
Sections 1, 2, 3 at 0-103 cm, and 4 at 0-70 cm contain phosphatic nodules, and decimeter scale intervals of black alternating with dark olive gray. The black layers are homogenous with sub-mm-scale laminations. The dark olive gray intervals have less pronounced intervals with carbonate laminae interspersed. Sections 5, 6 and the CC are dark olive gray with a black layer, CLAYSTONE WITH ZEOLITES AND ORGANIC MATTER, as seen in core 34. These sections are composed of sub-mm-scale laminations with thin carbonate layers increasing downcore.

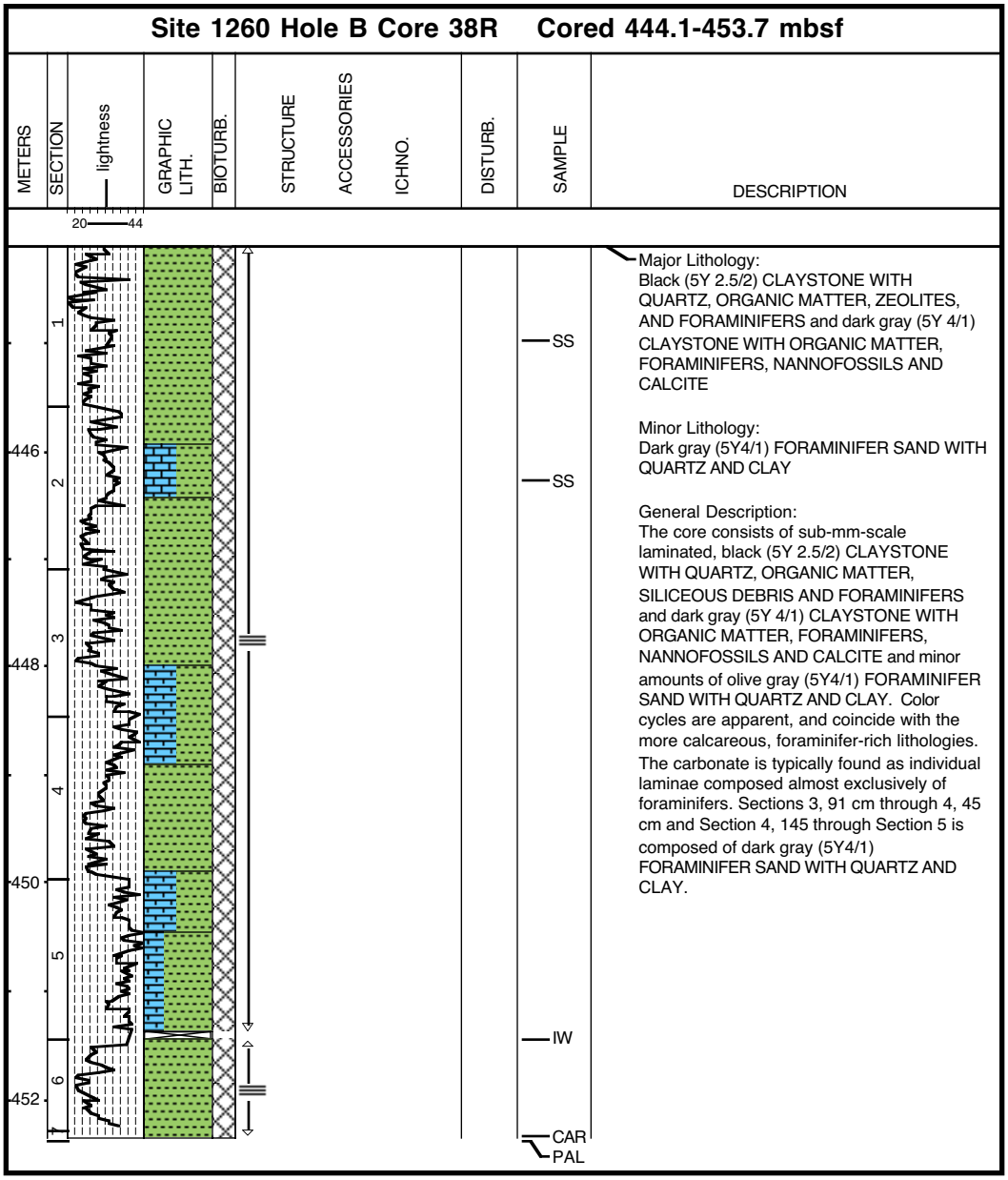
Core Photo


Site 1260 Hole B Core 36R Cored 424.9-434.5 mbsf
METERS
SECTION
Lightness
21
48
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
426
428
430
432
1
2
3
4
5
6
THS
SS
CAR
SS
XRD
CAR
CAR
THS
PAL
Major Lithology:
Olive gray (5Y 4/2) FORAMINIFER NANNOFOSSIL MICRITE and black (5Y 2.5/2) CALCAREOUS CLAYSTONE WITH ORGANIC MATTER AND ZEOLITES
General Description:
This core consists of alternating light and dark cycles at regular (30cm) intervals. The light intervals are an olive gray FORAMINIFER NANNOFOSSIL MICRITE with carbonate rich sub-mm-scale laminations. The dark intervals are a black CALCAREOUS CLAYSTONE WITH ORGANIC MATTER AND ZEOLITES that are homogenous in color with sub-mm-laminations. Phosphatic and shelly fragment beds are common at the base of the dark interval. The darker lithology gradually changes into the light lithology where as a sharp contact between the light and the dark lithologies separates the two. The light intervals in Sections 2 and 6 contain quartz(?)-cemented fractures. Section 2, 70-73 cm has a slumped like fabric.

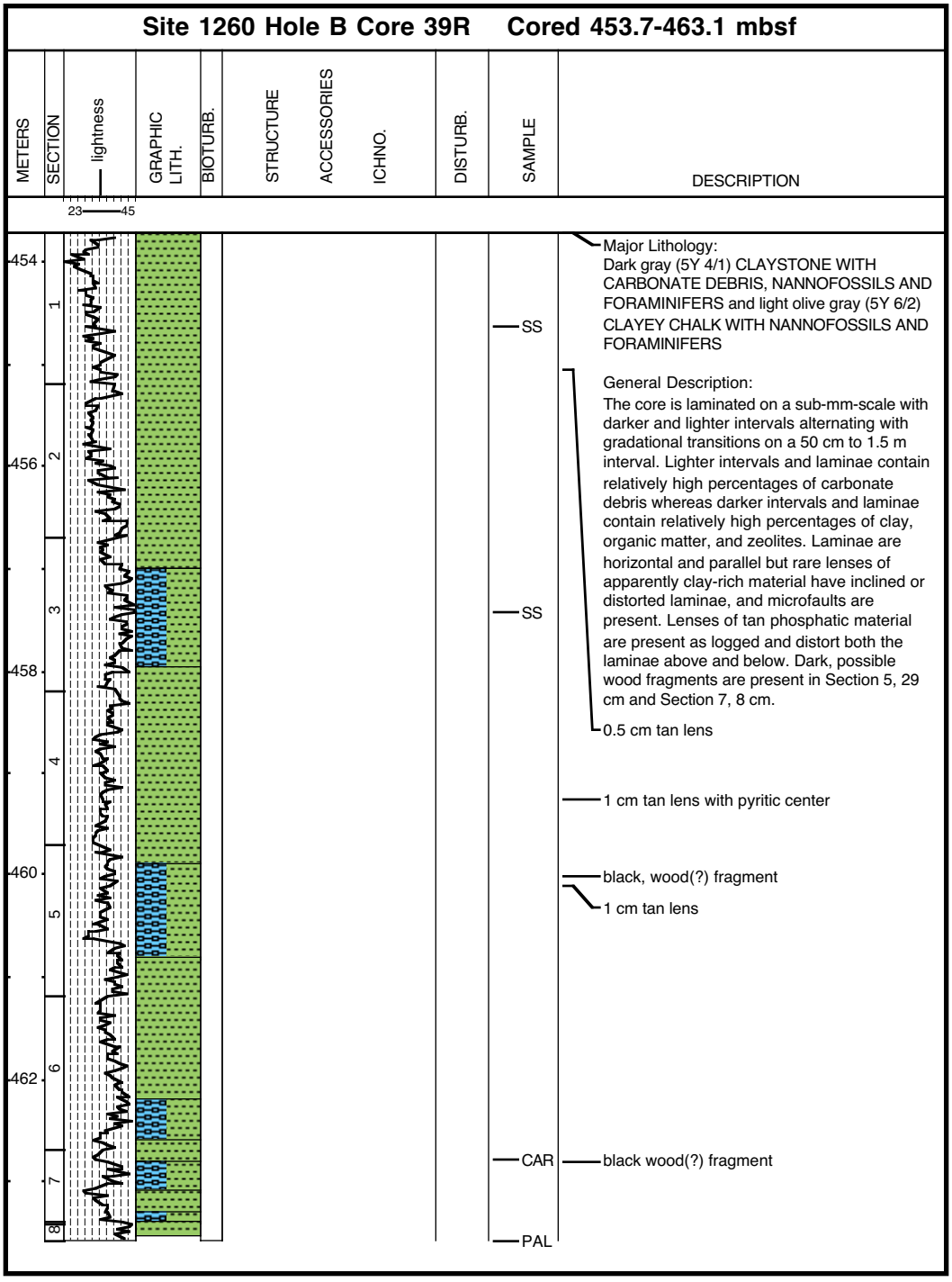
Core Photo


Site 1260 Hole B Core 37R Cored 434.5-444.1 mbsf
METERS
SECTION
lightness
20
49
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
436
438
440
442
444
1
2
3
4
5
6
7
8
SS
THS
Major Lithology:
Olive gray (5Y 4/2) FORAMINIFER NANNOFOSSIL MICRITE and black (5Y 2.5/2) CLAYEY CHALK WITH ZEOLITES AND ORGANIC MATTER
General Description:
Core 37 consists of alternating light (30 cm) and dark (60 cm) intervals. The light intervals are an olive gray and white FORAMINIFER NANNOFOSSIL MICRITE with fine laminations. The dark intervals are a black CLAYEY CHALK WITH ZEOLITES AND ORGANIC MATTER that are homogenous in color with sub-mm-laminations. The darker lithology gradually changes into the light lithology where as a sharp contact between the light and the dark lithologies separates the two. Phosphatic nodules and dedding disturbances are located throughout the core.

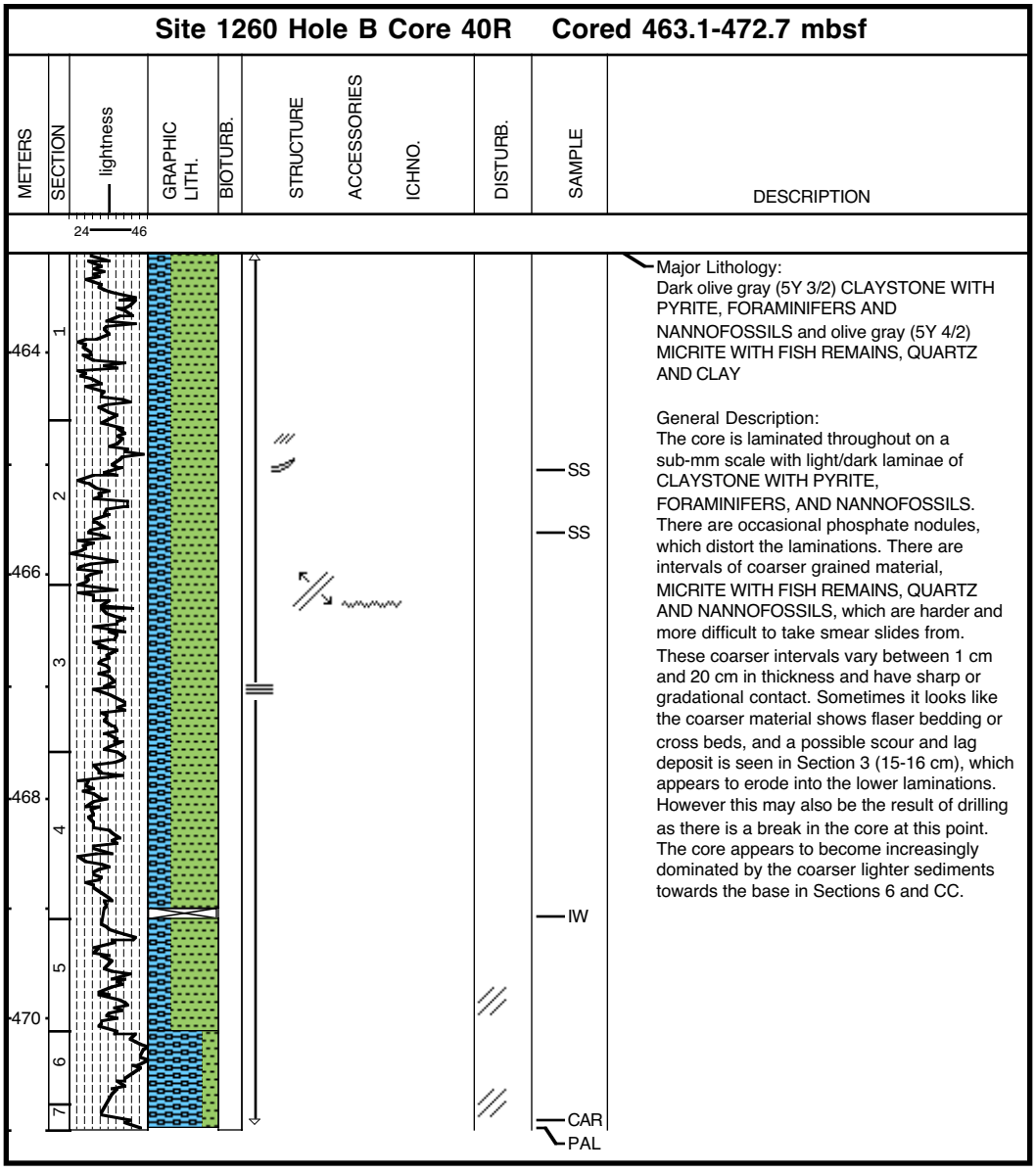
Core Photo


Site 1260 Hole B Core 38R Cored 444.1-453.7 mbsf
METERS
SECTION
lightness
20
44
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
446
448
450
452
1
2
3
4
5
6
SS
SS
IW
CAR
PAL
Major Lithology:
Black (5Y 2.5/2) CLAYSTONE WITH QUARTZ, ORGANIC MATTER, ZEOLITES, AND FORAMINIFERS and dark gray (5Y 4/1) CLAYSTONE WITH ORGANIC MATTER, FORAMINIFERS, NANNOFOSSILS AND CALCITE
Minor Lithology:
Dark gray (5Y4/1) FORAMINIFER SAND WITH QUARTZ AND CLAY
General Description:
The core consists of sub-mm-scale laminated, black (5Y 2.5/2) CLAYSTONE WITH QUARTZ, ORGANIC MATTER, SILICEOUS DEBRIS AND FORAMINIFERS and dark gray (5Y 4/1) CLAYSTONE WITH ORGANIC MATTER, FORAMINIFERS, NANNOFOSSILS AND CALCITE and minor amounts of olive gray (5Y4/1) FORAMINIFER SAND WITH QUARTZ AND CLAY. Color cycles are apparent, and coincide with the more calcareous, foraminifer-rich lithologies. The carbonate is typically found as individual laminae composed almost exclusively of foraminifers. Sections 3, 91 cm through 4, 45 cm and Section 4, 145 through Section 5 is composed of dark gray (5Y4/1) FORAMINIFER SAND WITH QUARTZ AND CLAY.

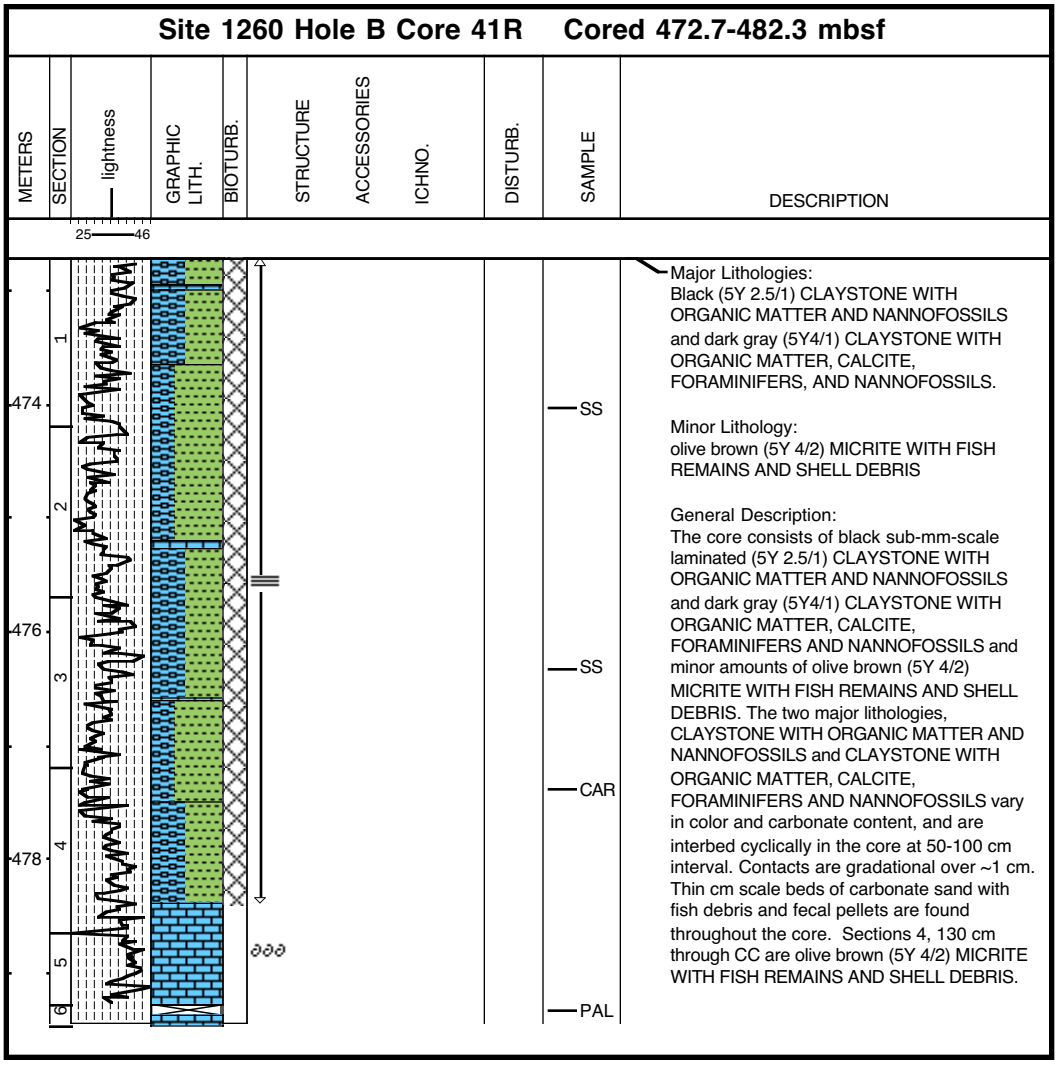
Core Photo


Site 1260 Hole B Core 39R Cored 453.7-463.1 mbsf
METERS
SECTION
lightness
23
45
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
454
456
458
460
462
1
2
3
4
5
6
7
8
SS
SS
CAR
PAL
Major Lithology:
Dark gray (5Y 4/1) CLAYSTONE WITH CARBONATE DEBRIS, NANNOFOSSILS AND FORAMINIFERS and light olive gray (5Y 6/2) CLAYEY CHALK WITH NANNOFOSSILS AND FORAMINIFERS
General Description:
The core is laminated on a sub-mm-scale with darker and lighter intervals alternating with gradational transitions on a 50 cm to 1.5 m interval. Lighter intervals and laminae contain relatively high percentages of carbonate debris whereas darker intervals and laminae contain relatively high percentages of clay, organic matter, and zeolites. Laminae are horizontal and parallel but rare lenses of apparently clay-rich material have inclined or distorted laminae, and microfaults are present. Lenses of tan phosphatic material are present as logged and distort both the laminae above and below. Dark, possible wood fragments are present in Section 5, 29 cm and Section 7, 8 cm.
0.5 cm tan lens
1 cm tan lens with pyritic center
black, wood(?) fragment
1 cm tan lens
black wood(?) fragment

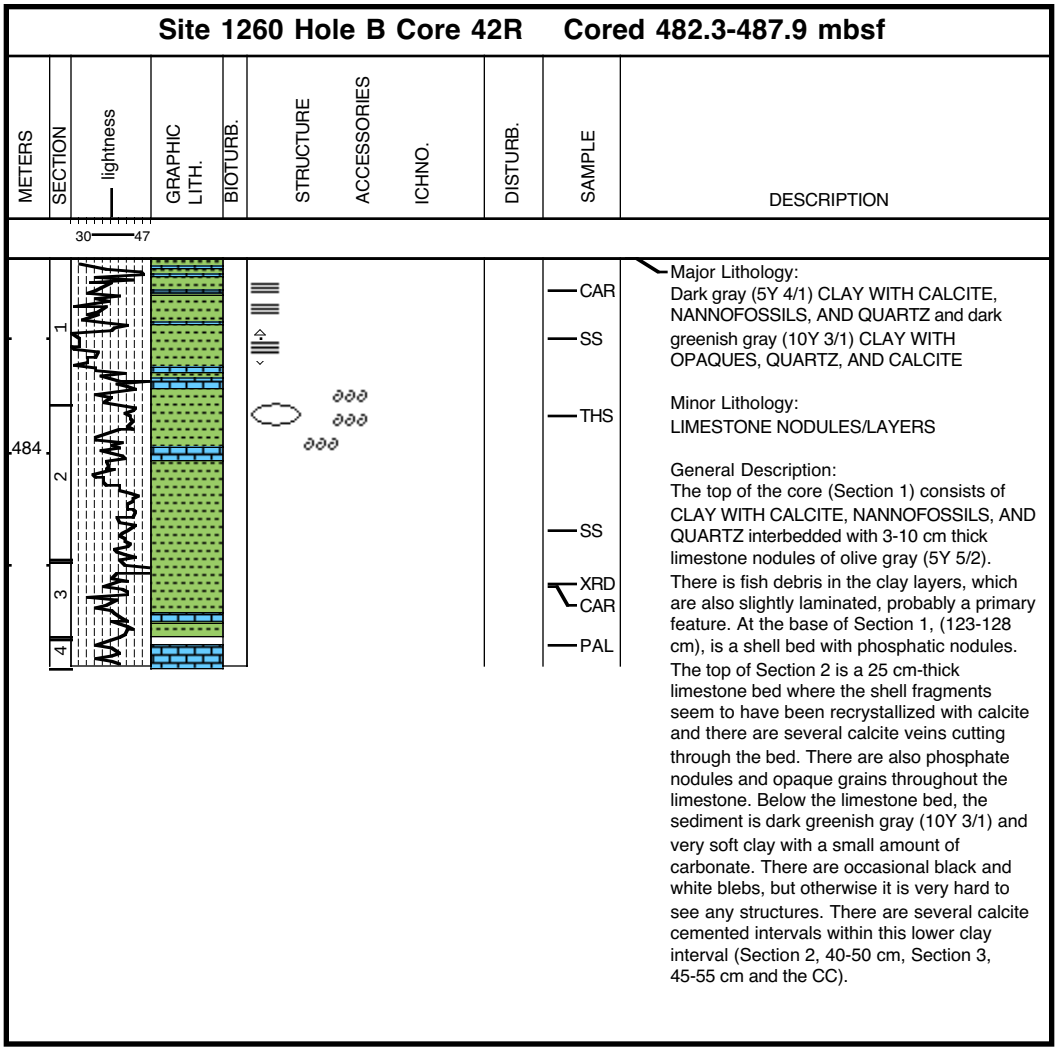
Core Photo


Site 1260 Hole B Core 40R Cored 463.1-472.7 mbsf
METERS
SECTION
lightness
24
46
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
464
466
468
470
1
2
3
4
5
6
7
SS
SS
IW
CAR
PAL
Major Lithology:
Dark olive gray (5Y 3/2) CLAYSTONE WITH PYRITE, FORAMINIFERS AND NANNOFOSSILS and olive gray (5Y 4/2) MICRITE WITH FISH REMAINS, QUARTZ AND CLAY
General Description:
The core is laminated throughout on a sub-mm scale with light/dark laminae of CLAYSTONE WITH PYRITE, FORAMINIFERS, AND NANNOFOSSILS. There are occasional phosphate nodules, which distort the laminations. There are intervals of coarser grained material, MICRITE WITH FISH REMAINS, QUARTZ AND NANNOFOSSILS, which are harder and more difficult to take smear slides from. These coarser intervals vary between 1 cm and 20 cm in thickness and have sharp or gradational contact. Sometimes it looks like the coarser material shows flaser bedding or cross beds, and a possible scour and lag deposit is seen in Section 3 (15-16 cm), which appears to erode into the lower laminations. However this may also be the result of drilling as there is a break in the core at this point. The core appears to become increasingly dominated by the coarser lighter sediments towards the base in Sections 6 and CC.

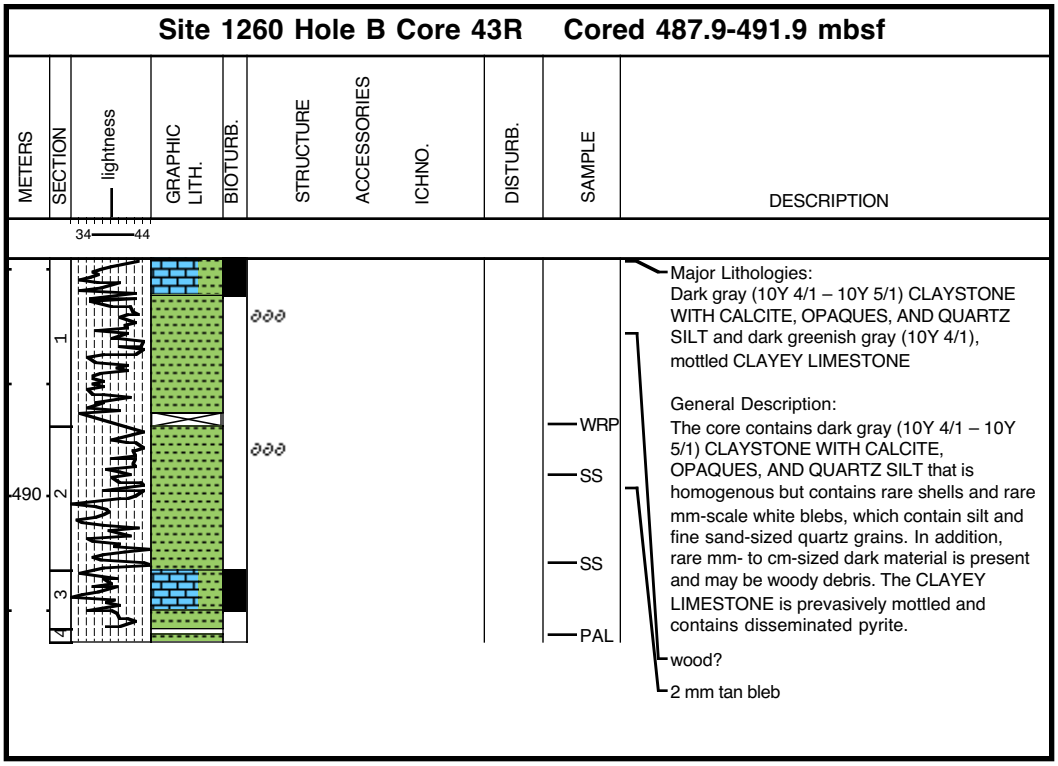
Core Photo


Site 1260 Hole B Core 41R Cored 472.7-482.3 mbsf
METERS
SECTION
lightness
25
46
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
474
476
478
1
2
3
4
5
6
SS
SS
CAR
PAL
Major Lithologies:
Black (5Y 2.5/1) CLAYSTONE WITH ORGANIC MATTER AND NANNOFOSSILS and dark gray (5Y4/1) CLAYSTONE WITH ORGANIC MATTER, CALCITE, FORAMINIFERS, AND NANNOFOSSILS.
Minor Lithology:
olive brown (5Y 4/2) MICRITE WITH FISH REMAINS AND SHELL DEBRIS
General Description:
The core consists of black sub-mm-scale laminated (5Y 2.5/1) CLAYSTONE WITH ORGANIC MATTER AND NANNOFOSSILS and dark gray (5Y4/1) CLAYSTONE WITH ORGANIC MATTER, CALCITE, FORAMINIFERS AND NANNOFOSSILS and minor amounts of olive brown (5Y 4/2) MICRITE WITH FISH REMAINS AND SHELL DEBRIS. The two major lithologies, CLAYSTONE WITH ORGANIC MATTER AND NANNOFOSSILS and CLAYSTONE WITH ORGANIC MATTER, CALCITE, FORAMINIFERS AND NANNOFOSSILS vary in color and carbonate content, and are interbed cyclically in the core at 50-100 cm interval. Contacts are gradational over ~1 cm. Thin cm scale beds of carbonate sand with fish debris and fecal pellets are found throughout the core. Sections 4, 130 cm through CC are olive brown (5Y 4/2) MICRITE WITH FISH REMAINS AND SHELL DEBRIS.

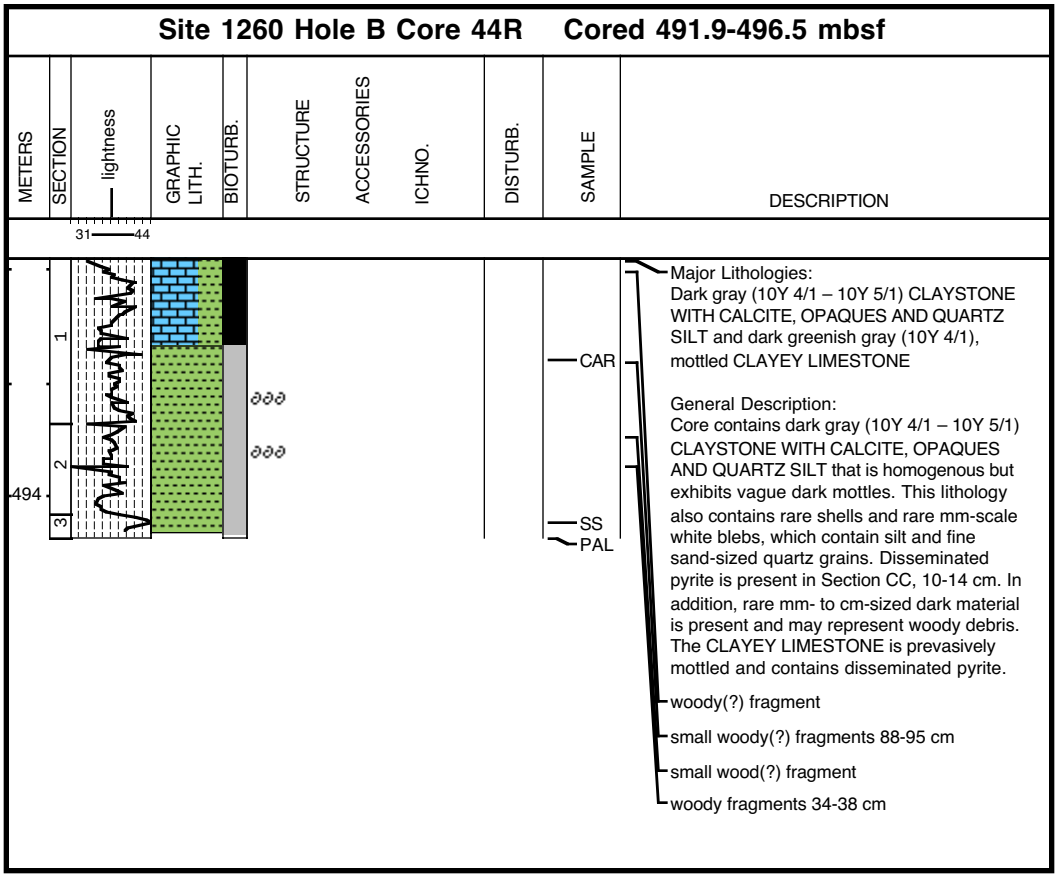
Core Photo


Site 1260 Hole B Core 42R Cored 482.3-487.9 mbsf
METERS
SECTION
lightness
30
47
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
484
1
2
3
4
CAR
SS
THS
SS
XRD
CAR
PAL
Major Lithology:
Dark gray (5Y 4/1) CLAY WITH CALCITE, NANNOFOSSILS, AND QUARTZ and dark greenish gray (10Y 3/1) CLAY WITH OPAQUES, QUARTZ, AND CALCITE
Minor Lithology:
LIMESTONE NODULES/LAYERS
General Description:
The top of the core (Section 1) consists of CLAY WITH CALCITE, NANNOFOSSILS, AND QUARTZ interbedded with 3-10 cm thick limestone nodules of olive gray (5Y 5/2). There is fish debris in the clay layers, which are also slightly laminated, probably a primary feature. At the base of Section 1, (123-128 cm), is a shell bed with phosphatic nodules. The top of Section 2 is a 25 cm-thick limestone bed where the shell fragments seem to have been recrystallized with calcite and there are several calcite veins cutting through the bed. There are also phosphate nodules and opaque grains throughout the limestone. Below the limestone bed, the sediment is dark greenish gray (10Y 3/1) and very soft clay with a small amount of carbonate. There are occasional black and white blebs, but otherwise it is very hard to see any structures. There are several calcite cemented intervals within this lower clay interval (Section 2, 40-50 cm, Section 3, 45-55 cm and the CC).

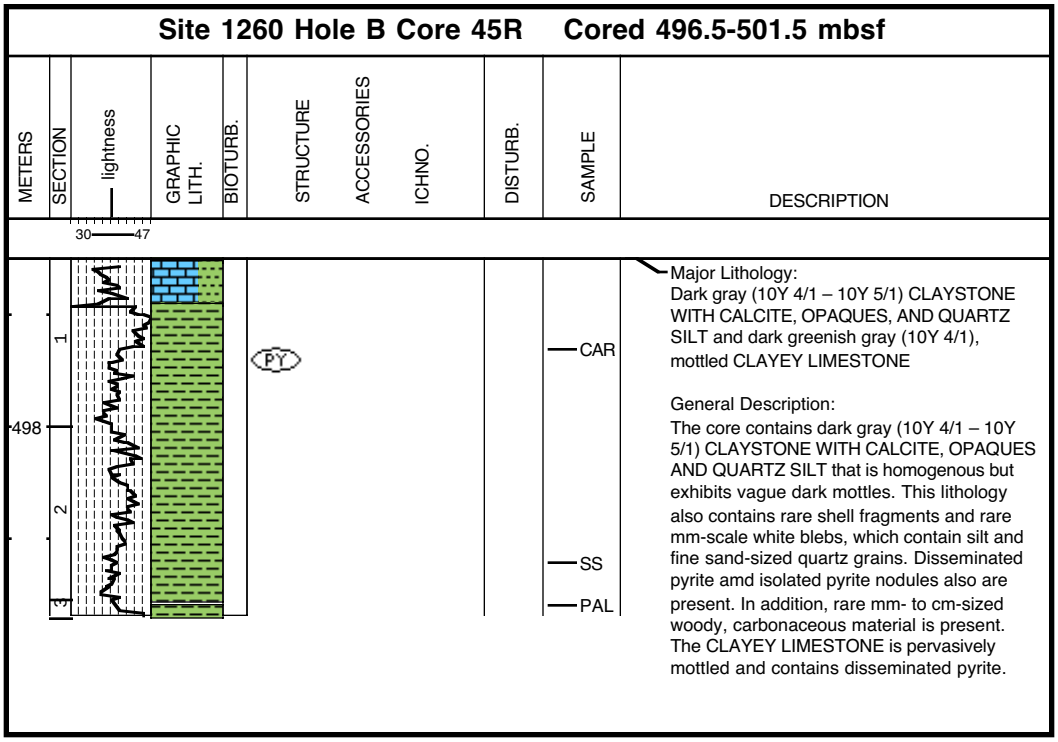
Core Photo


Site 1260 Hole B Core 43R Cored 487.9-491.9 mbsf
METERS
SECTION
lightness
34
44
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
490
1
2
3
4
WRP
SS
SS
PAL
Major Lithologies:
Dark gray (10Y 4/1 – 10Y 5/1) CLAYSTONE WITH CALCITE, OPAQUES, AND QUARTZ SILT and dark greenish gray (10Y 4/1), mottled CLAYEY LIMESTONE
General Description:
The core contains dark gray (10Y 4/1 – 10Y 5/1) CLAYSTONE WITH CALCITE, OPAQUES, AND QUARTZ SILT that is homogenous but contains rare shells and rare mm-scale white blebs, which contain silt and fine sand-sized quartz grains. In addition, rare mm- to cm-sized dark material is present and may be woody debris. The CLAYEY LIMESTONE is prevasively mottled and contains disseminated pyrite.
wood?
2 mm tan bleb

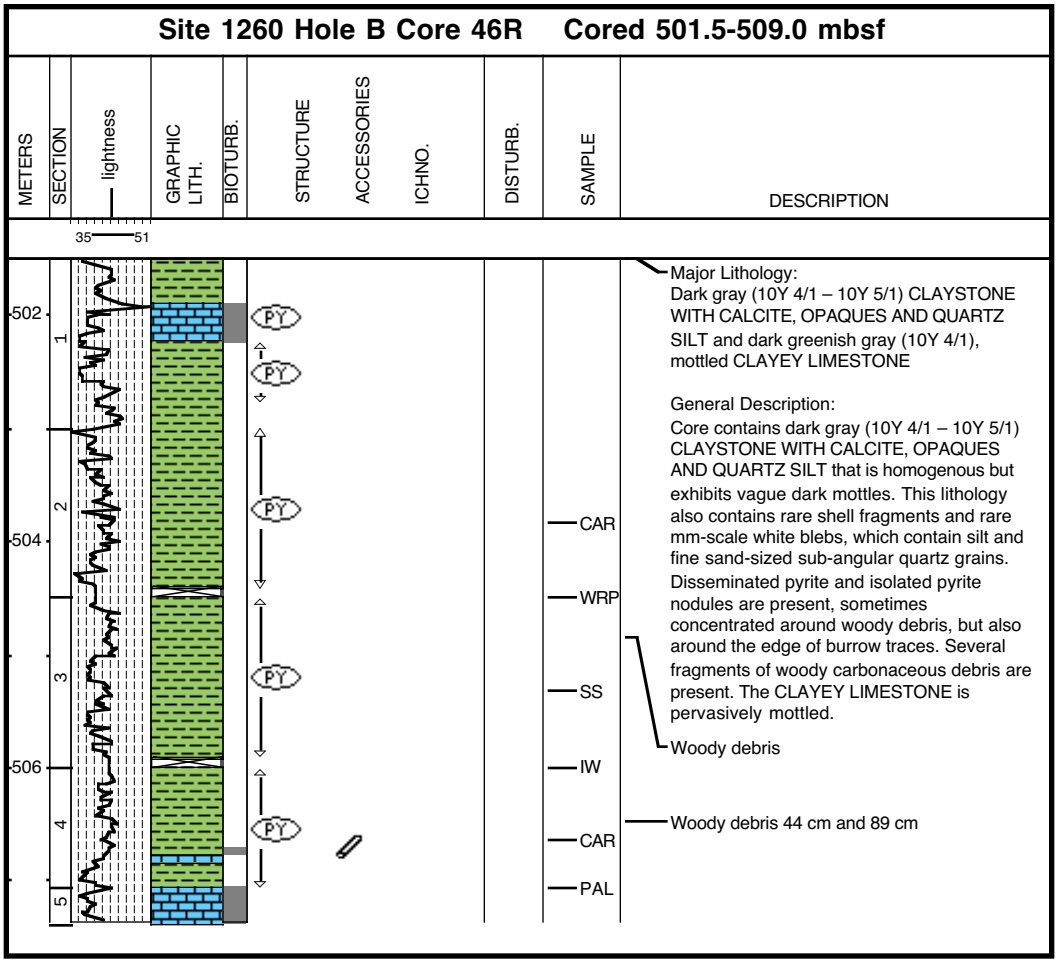
Core Photo


Site 1260 Hole B Core 44R Cored 491.9-496.5 mbsf
METERS
SECTION
lightness
31
44
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
1
2
3
494
CAR
SS
PAL
Major Lithologies:
Dark gray (10Y 4/1 – 10Y 5/1) CLAYSTONE WITH CALCITE, OPAQUES AND QUARTZ SILT and dark greenish gray (10Y 4/1), mottled CLAYEY LIMESTONE
General Description:
Core contains dark gray (10Y 4/1 – 10Y 5/1) CLAYSTONE WITH CALCITE, OPAQUES AND QUARTZ SILT that is homogenous but exhibits vague dark mottles. This lithology also contains rare shells and rare mm-scale white blebs, which contain silt and fine sand-sized quartz grains. Disseminated pyrite is present in Section CC, 10-14 cm. In addition, rare mm- to cm-sized dark material is present and may represent woody debris. The CLAYEY LIMESTONE is prevasively mottled and contains disseminated pyrite.
woody(?) fragment
small woody(?) fragments 88-95 cm
small wood(?) fragment
woody fragments 34-38 cm

Core Photo


Site 1260 Hole B Core 45R Cored 496.5-501.5 mbsf
METERS
SECTION
lightness
30
47
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
498
1
2
3
PY
CAR
SS
PAL
Major Lithology:
Dark gray (10Y 4/1 – 10Y 5/1) CLAYSTONE WITH CALCITE, OPAQUES, AND QUARTZ SILT and dark greenish gray (10Y 4/1), mottled CLAYEY LIMESTONE
General Description:
The core contains dark gray (10Y 4/1 – 10Y 5/1) CLAYSTONE WITH CALCITE, OPAQUES AND QUARTZ SILT that is homogenous but exhibits vague dark mottles. This lithology also contains rare shell fragments and rare mm-scale white blebs, which contain silt and fine sand-sized quartz grains. Disseminated pyrite amd isolated pyrite nodules also are present. In addition, rare mm- to cm-sized woody, carbonaceous material is present. The CLAYEY LIMESTONE is pervasively mottled and contains disseminated pyrite.

Core Photo


Site 1260 Hole B Core 46R Cored 501.5-509.0 mbsf
METERS
SECTION
lightness
35
51
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
502
504
506
1
2
3
4
5
PY
CAR
WRP
SS
IW
CAR
PAL
Major Lithology:
Dark gray (10Y 4/1 – 10Y 5/1) CLAYSTONE WITH CALCITE, OPAQUES AND QUARTZ SILT and dark greenish gray (10Y 4/1), mottled CLAYEY LIMESTONE
General Description:
Core contains dark gray (10Y 4/1 – 10Y 5/1) CLAYSTONE WITH CALCITE, OPAQUES AND QUARTZ SILT that is homogenous but exhibits vague dark mottles. This lithology also contains rare shell fragments and rare mm-scale white blebs, which contain silt and fine sand-sized sub-angular quartz grains. Disseminated pyrite and isolated pyrite nodules are present, sometimes concentrated around woody debris, but also around the edge of burrow traces. Several fragments of woody carbonaceous debris are present. The CLAYEY LIMESTONE is pervasively mottled.
Woody debris
Woody debris 44 cm and 89 cm

Sample						Mineral														Biogenic													Rock		
Core	CT	Sct	Top (cm)	Depth (mbsf)	Lithology	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Dolomite (62)	Glauconite (82)	Manganese Oxide (124)	Opaques (140)	Phosphate (156)	Pyrite (169)	Quartz (172)	Unspecified Minerals (218)	Zeolite (222)	Benthic foraminifers (236)	Calcareous Spicules (259)	Calcispheres (29)	Diatoms (58)	Fish Remains (74)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	calcareous debris (161)	Organic Debris Organic Matter (142)	Pellets (152)	Comments
Hole A																																			
1	R	1	2	0.02	M				34		3				2	10	5					5		20	10	2	1		5	3		Clay with quartz, foraminifers, and nannofossils
1	R	1	9	0.09	M				30		20	5				20								20					5			Clay with glauconite, quartz, and nannofossils
1	R	1	52	0.52	D				55		5				3	15						5		10	2				5			Clay with nannofossils and quartz
2	R	1	4	1.04	M				92						3	3								2								Clay
2	R	1	10	1.10	M				79		1				2	5								10					3			Clayey with nannofossils
2	R	1	14	1.14	M				20						3	5	2							20	50							Foraminifer ooze with clay and nannofossils
2	R	1	24	1.24	M				20				1			1					*			63	10						5	Nannofossil ooze with foraminifer and clay
2	R	1	70	1.70	D		2		15			10				*						2		61	10	*						Nannofossil ooze with foraminifers manganese oxides and clay
2	R	1	106	2.06	D				24												*			60	15				1			Nannofossil ooze with foraminifers and clay
2	R	2	120	3.70	D				20															70	10							Nannofossil ooze with foraminifers and clay
3	R	1	10	10.40	D				5						1						5		1	60	25				3			Foraminifer and nannofossil ooze
3	R	1	56	10.86	D				8							2					5			60	20				5			Nannofossil ooze with foraminifers
3	R	1	106	11.36	D															*	5			70	25							Nannofossil ooze with foraminifers
3	R	2	23	12.03	D				3						1	2				1	3		*	65	25							Nannofossil ooze with foraminifers
3	R	3	98	14.28	D										1						3		1	60	35							Foraminifer and nannofossil ooze
4	R	1	36	19.86	D													1			3			66	30	*						Foraminifer and nannofossil ooze
4	R	2	23	21.23	D													1			3		2	59	35							Foraminifer and nannofossil chalk
4	R	2	88	21.88	M		2		4						5			3					1	55	30							Foraminifer and nannofossil chalk
4	R	3	52	23.02	M		2		10						2			3	*		3		1	60	19	*						Nannofossil chalk with clay and foraminifers
5	R	2	75	31.05	D										1			1			2			61	35							Foraminifer and nannofossil chalk
5	R	3	50	32.30	D				5									2			3		1	59	30							Foraminifer and nannofossil chalk
5	R	3	66	32.46	M				10						2			2			2		1	50	25				8			Foraminifer and nannofossil chalk with clay
5	R	4	124	34.54	D				5								1	3			5		1	60	20				5			Nannofossil chalk with foraminifer
5	R	CC	15	36.06	D											2		2		2	2			62	30							Foraminifer and nannofossil chalk
6	R	1	120	39.40	D																5	3		51	5	25	8	3				Nannofossil chalk with radiolarians
6	R	2	93	40.63	M										57	2		2						20		15	2	2				Pyrite chalk with radiolarian and nannofossils
6	R	3	55	41.75	D																5	2		50	3	30	10					Radiolarian and nannofossil chalk with sponge spicule
6	R	3	75	41.95	M										2							5		50	3	33	5	2				Radiolarian and nannofossil chalk
6	R	4	138	44.08	D						*				3				*		2		2	40	10	39	2	2				Radiolarian and nannofossil chalk with foraminifers
6	R	6	44	45.64	D													2			6			30	25	35	2					Nannofossil and radiolarian chalk with foraminifer

Sample						Mineral														Biogenic											Rock		
Core	CT	Sct	Top (cm)	Depth (mbsf)	Lithology	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Dolomite (62)	Glauconite (82)	Manganese Oxide (124)	Opaques (140)	Phosphate (156)	Pyrite (169)	Quartz (172)	Unspecified Minerals (218)	Zeolite (222)	Benthic foraminifers (236)	Calcareous Spicules (259)	Calcispheres (29)	Diatoms (58)	Fish Remains (74)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	calcareous debris (161)	Organic Debris Organic Matter (142)	Pellets (152)	Comments
Hole A (continued)																																	
7	R	1	66	48.16	D				5									*			5			35	20	20	5		10			Nannofossil chalk with radiolarians and foraminifers
7	R	4	102	53.02	D													5			2			37	20	20	1	*	15			Nannofossil chalk with radiolarians and foraminifers
8	R	1	75	57.95	D													2			2			50	15	26	5					Nannofossil chalk with foraminifers and radiolarians
8	R	3	21	60.41	M										1						3			50	20	26						Nannofossil chalk with foraminifers and radiolarians
9	R	5	90	73.80	D		10									*		1						58	15	15	1					Nannofossil chalk with foraminifers and radiolarians
10	R	3	59	80.19	D		15																	54	15	15	1					Nannofossil chalk with foraminifers and radiolarians
11	R	5	60	92.90	D		25															12		30	15	17	1					Biosiliceous nannofossil chalk with foraminifers and calcite
12	R	5	60	102.50	D		8											*			2	15		30	12	32	1					Nannofossil and radiolarian chalk with foraminifers and diatoms
13	R	5	100	112.60	D		30														3	3	*	19	15	27	3					Radiolarian chalk with foraminifer and nannofossil
14	R	5	87	122.17	D		24											2				10		10	5	45	4					Radiolarite with calcite
15	R	3	60	128.50	D		25											2			1		1	20	23	25	3					Radiolarian chalk with foraminifer and nannofossil
17	R	2	56	146.26	D																3			47	20	30						Radiolarian and nannofossil chalk with foraminifer
18	R	3	83	157.33	D																3	1		50	10	36						Radiolarian and nannofossil chalk with foraminifer
18	R	7	26	162.76	M													2			1	2		20	45	20			10			foraminifer chalk with nannofossil and radiolarian
19	R	5	60	169.80	D																2	1		50	20	27						Radiolarian and nannofossil chalk with foraminifers
20	R	3	78	176.58	D																	2		50	25	23						Radiolarian and nannofossil chalk
21	R	1	73	183.23	D		12				*				2			3			3			60	20							Nannofossil chalk with calcite and foraminifers
23	R	2	50	203.40	D		8		15									5			2			45	15				10			Nannofossil chalk with clay and foraminifers
23	R	3	21	204.61	M		5		10												10			45	20				10			Nannofossil chalk with clay, calcisphere, and foraminifers
23	R	3	60	205.00	D		10		7									8			10			45	20							Nannofossil chalk with calcite, calcisphere, and foraminifers
23	R	3	69	205.09	M		10		10						1			3			10			33	23				10			Nannofossil chalk with clay calcite, calcisphere, and foraminifers
24	R	2	95	213.45	D		5		7							3		10			5			40	20				10			Nannofossil chalk with zeolite and foraminifers
24	R	3	100	214.90	M		5		14	3								3			10			40	25							Foraminifer and nannofossil chalk with calcisphere and clay
24	R	4	83	216.12	D		5		10									15			5			40	15				10			Nannofossil chalk with clay, zeolite, and foraminifers

Sample						Mineral														Biogenic												Rock		
Core	CT	Sct	Top (cm)	Depth (mbsf)	Lithology	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Dolomite (62)	Glauconite (82)	Manganese Oxide (124)	Opaques (140)	Phosphate (156)	Pyrite (169)	Quartz (172)	Unspecified Minerals (218)	Zeolite (222)	Benthic foraminifers (236)	Calcareous Spicules (259)	Calcispheres (29)	Diatoms (58)	Fish Remains (74)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	calcareous debris (161)	Organic Debris Organic Matter (142)	Pellets (152)	Comments
Hole A (continued)																																		
24	R	5	90	217.69	D				10	5								15			10			40	20	*						Nannofossil chalk with clay, calcisphere, zeolite, and foraminifers
25	R	5	30	226.80	M		10		37						2	2		2			5		2	30	10							Nannofossil and clay chalk with calcite and foraminifers
25	R	6	62	228.62	D		5		18						2			15			5			40	15							Nannofossil chalk with zeolite, foraminifers, and clay
26	R	2	72	232.52	D		2		30									15			3			30	20							Nannofossil and clay chalk with zeolite and foraminifers
26	R	3	74	234.04	D		6		30						2			2			5			20	35							Clay and foraminifer chalk with nannofossils
26	R	5	77	237.07	D				28									10			2			50	10							Clay and nannofossil chalk with zeolite and foraminifers
27	R	6	48	247.93	D		25		20									3			2			35	15							Calcareous nannofossil chalk with foraminifers and clay
28	R	3	75	253.16	D		27		20							*		2			1			40	10							Calcareous nannofossil chalk with clay
29	R	1	40	259.60	D		30		20									5						40	5							Calcareous nannofossil chalk with clay
30	R	3	70	272.52	D		20		5				5					4			1			55	10		*					Nannofossil chalk with calcite
30	R	7	65	276.65	M				90							2	1	7														Clay
30	R	7	67.5	276.68	D		*						99				1	*														Opaque minerals
30	R	7	72.5	276.73	M				90	1			1			*		8														Clay
30	R	7	75	276.75	M		10		35									5						50								Clayey nannofossil chalk with calcite
30	R	8	60	278.10	D		10		30									3			1			46	7				3			Clayey nannofossil chalk
31	R	2	40	280.19	D		10		10				1			1		1			1			61	15							Nannofossil chalk with foraminifer, calcite, and chalk
32	R	1	50	288.70	D		15		20							*		*						53	12							Nannofossil chalk with foraminifers
33	R	1	63	298.43	D		8	2	25									2						51	12							Clayey and nannofossil chalk with foraminifers
34	R	4	65	312.55	D		5		35							*		3			1			44	7				5			Clayey nannofossil chalk
35	R	2	30	318.90	D		10		25							*		5						49	8				3			Clayey nannofossil chalk
35	R	7	51	326.61	D		40		10							1		2			1			31	15							Limestone with foraminifers
36	R	7	16	335.36	D		20		18									2						50	10							Nannofossil chalk with foraminifers and calcite
37	R	1	100	337.40	M		15		33									2						45	5							Clay and nannofossil chalk with calcite
37	R	4	50	341.40	D				25									5					*	45	25							Nannofossil chalk with clay and foraminifers
37	R	6	95		D		20		19									1						40	20							Foraminifer chalk with clay calcite and nannofossils
38	R	3	10	349.10	D		4		39						1	1		15						20	20	*						Clay with zeolite foraminifers and nannofossils
38	R	3	22	349.22	D		25		22	5					1			2						25	20							Calcareous and nannofossil chalk with foraminifers and clay

Sample						Mineral														Biogenic												Rock		
Core	CT	Sct	Top (cm)	Depth (mbsf)	Lithology	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Dolomite (62)	Glauconite (82)	Manganese Oxide (124)	Opaques (140)	Phosphate (156)	Pyrite (169)	Quartz (172)	Unspecified Minerals (218)	Zeolite (222)	Benthic foraminifers (236)	Calcareous Spicules (259)	Calcispheres (29)	Diatoms (58)	Fish Remains (74)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	calcareous debris (161)	Organic Debris Organic Matter (142)	Pellets (152)	Comments
Hole A (continued)																																		
39	R	1	97	356.57	D		20		25	5	*				2	1		2						25	20							Clay and nannofossil chalk with calcite and foraminifers
39	R	4	125	361.35	D		5		36						4	5		15						20	15							Claystone with zeolite, foraminifers, and nannofossils
40	R	2	110	367.90	M			5	47	1	*				5	2		10						20	10							Claystone with zeolite, foraminifers, and nannofossils
40	R	4	3	369.83	D		5		61						2	2		5						15	10	*						Claystone with foraminifer and nannofossils
41	R	1	15	375.05	D		2		60						3	3		2						20	10							Claystone with foraminifer and nannofossils
41	R	1	52	375.42	D		6		50						1	2		1						15	25							Claystone with nannofossil and foraminifers
41	R	4	25	379.65	D		1		69						10	2		5						10	3							Claystone with pyrite and nannofossils
42	R	1	62	385.12	D				62						10	5		2					1	15	5							Claystone with pyrite and nannofossils
42	R	4	124	390.24	D		2		54	1					10	1		2						30								Nannofossil claystone with pyrite
42	R	CC	2	390.52	M				10		10				15	15							2	38	10							Nannofossil chalk with clay, foraminifers, pyrite, and quartz
43	R	1	15	394.25	D	1	3		35						2			2					2	15	30	*			5	5		Foraminifer and clay with nannofossils
44	R	1	114	404.84	D		5		32						15	2		8					3	20	10	*				5		Claystone with foraminifer pyrite and nannofossils
44	R	3	8.5	406.79	M		1		16		20				15	1		2					10	10	20					5		Clay and foraminifer with fish debris, nannofossils, and glauconite
45	R	2	46	410.66	M		1		67									12												20		Claystone with zeolite and organic matter
45	R	2	52	410.72	D				60									3						7	20				10			Claystone with foraminifers
46	R	5	30	419.94	D		2		57					1				15											5	20		Claystone with zeolite and organic matter
46	R	6	13	421.20	D		100																									Calcite siltstone
47	R	5	15	430.03	D		5		40				1					7						29	3				5	10		Nannofossil claystone
48	R	5	81	439.99	D		10		33				5	2				2						20	26					2		Foraminifer claystone with nannofossils
48	R	6	94	441.62	D				45				2					1						20	15				2	15		Calcareous claystone with organic matter
49	R	2	90	445.43	D				50				4	5		1								8	12					20		Claystone with foraminifers and organic matter
49	R	6	23	450.34	D		8		45															35	12							Nannofossil clay with foraminifers
50	R	1	50	453.20	D				48				2	5										20	15					10		Claystone with organic matter foraminifers and nannofossils
50	R	2	50	454.70	D		20		40				2											24	9				5			Calcareous claystone with nannofossils
50	R	7	50	461.70	D		4		40				3	1										30	10				5	7		Nannofossil claystone
51	R	5	60	468.58	D		5		40				3					1						41	10							Clayey nannofossil chalk

Sample						Mineral														Biogenic												Rock		
Core	CT	Sct	Top (cm)	Depth (mbsf)	Lithology	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Dolomite (62)	Glauconite (82)	Manganese Oxide (124)	Opaques (140)	Phosphate (156)	Pyrite (169)	Quartz (172)	Unspecified Minerals (218)	Zeolite (222)	Benthic foraminifers (236)	Calcareous Spicules (259)	Calcispheres (29)	Diatoms (58)	Fish Remains (74)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	calcareous debris (161)	Organic Debris Organic Matter (142)	Pellets (152)	Comments
Hole A (continued)																																		
52	R	2	42	473.52	D		30		17						5								3	40	5							Calcareous and nannofossil chalk with clay
52	R	3	40	474.98	D			10	30				5		5	5							5	20	15					5		Claystone with carbonate, foraminifers, and nannofossils
53	R	2	90	483.70	D		20		10	1	*		10		15	29	6							2	5					2		Calcareous quartz siltstone with pyrite

Sample						Mineral														Biogenic													Rock				Other	
Core	CT	Sct	Top (cm)	Depth (mbsf)	Lithology	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Clinoptilolite (48)	Dolomite (62)	Feldspar (71)	Glauconite (82)	Opaques (140)	Pyrite (169)	Quartz (172)	Unspecified Minerals (218)	Zeolite (222)	Benthic Forams (20)	Calcispheres (29)	Diatoms (58)	Fish Remains (74)	Foraminifers (78)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	Calcareous debris (161)	Calcareous Fragments (28)	Micrite (119)	Organic Debris Organic Matter (142)	Siliceous Fragments (184)	Other (145)	Comments
Hole B																																					
1	R	1	12	40.32	D																			50		40	10								Radiolarian and nannofossil chalk with sponge spicules
1	R	1	133	41.53	D				5						2					2				50		35	6								Radiolarian and nannofossil chalk
1	R	3	87	44.07	M								1			1						2		50	5	35	5	1							Radiolarian and nannofossil chalk
1	R	4	60	45.3	D											1				3				50	10	33	3								Radiolarian and nannofossil chalk with foraminifers
2	R	1	50	50.2	D																			50	20	30									Radiolarian and nannofossil chalk with foraminifers
2	R	3	8.5	52.79	M		10													3				55	10	22									Nannofossil chalk with calcite, foraminifers, and radiolarians
2	R	4	45	54.65	M															3				50	20	25	2								Nannofossil chalk with foraminifers and radiolarians
3	R	1	71	60.11	D																			50	30	19	1								Foraminifer and nannofossil chalk with radiolarians
3	R	2	98	61.88	M								*								1			50	25	22	2								Foraminifer and nannofossil chalk with radiolarians
4	R	2	70	66.6	D				5															50	30	15									Foraminifer and nannofossil chalk with radiolarians
4	R	3	50	67.9	D															2				50	30	16	2								Foraminifer and nannofossil chalk with radiolarians
5	R	1	93	74.73	D										1									55	25	18	1								Foraminifer and nannofossil chalk with radiolarians
5	R	2	23	75.53	M				6							1						1		50		35	5	2							Radiolarian and nannofossil chalk
5	R	2	27	75.57	M				18						5							2		40		35									Radiolarian and nannofossil chalk with Clay
6	R	3	55	82.35	D				3											2				50	20	25									Radiolarian and nannofossil chalk with foraminifers
7	R	2	34	90.24	D																2			50	15	31	1	1							Radiolarian and nannofossil chalk with foraminifers
8	R	2	84	100.34	D				5												10			40	15	30									Radiolarian and nannofossil chalk with diatoms and foraminifer
9	R	3	75	111.35	D																10			35	10	40	5								Nannofossil and radiolarian chalk with diatoms and foraminifers
10	R	1	121	118.41	D				5												10			40	10	35									Radiolarian and nannofossil chalk with diatoms and foraminifers
10	R	3	120	121.38	D																2			40	15	40	3								Radiolarian and nannofossil chalk with foraminifers

Sample						Mineral														Biogenic														Rock				Other	
Core	CT	Sct	Top (cm)	Depth (mbsf)	Lithology	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Clinoptilolite (48)	Dolomite (62)	Feldspar (71)	Glauconite (82)	Opaques (140)	Pyrite (169)	Quartz (172)	Unspecified Minerals (218)	Zeolite (222)	Benthic Forams (20)	Calcispheres (29)	Diatoms (58)	Fish Remains (74)	Foraminifers (78)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	Calcareous debris (161)	Calcareous Fragments (28)	Micrite (119)	Organic Debris Organic Matter (142)	Siliceous Fragments (184)	Other (145)	Comments
Hole B (continued)																																							
10	R	5	75	123.93	D				9											3				40	10	35	3									Radiolarian and nannofossil chalk with foraminifers
11	R	4	67	132.07	D		20													1				59	8	12										Nannofossil chalk with foraminifers
12	R	4	56	240.06	D		5		20									5		1				59	10											Nannofossil chalk with clay
13	R	2	60	244.1	D		10		20									3		1				59	7											Nannofossil chalk with clay
14	R	3	40	254.95	D		10		15									3		1				50	21											Nannofossil chalk with clay and foraminifers
15	R	2	57	258.27	D		20		25									3		*				42	10											Nannofossil chalk with calcite and clay
16	R	3	75	269.65	D		10		10									5		1				59	15											Nannofossil chalk with foraminifers
17	R	2	45	272.85	D		10		10									3		2				35	40											Nannofossil foraminifer chalk
17	R	7	69	279.84	M		*	*	77						2	1		20						*			*									Clay with zeolite
17	R	7	69.1	279.84	M		*	1	75						1			20						*		3										Clay with zeolite
17	R	7	69.5	279.85	M				40						1			20						37		1	1									Nannofossil clay with zeolite
17	R	7	70.7	279.86	M				33						1			20						43		3										Nannofossil clay with zeolite
18	R	1	102	281.52	D		15	39	10						1	*		5						30												Calcareous siltstone
19	R	1	84	290.94	D		10		35						2	2						1		40	10											Clay and Nannofossil chalk with calcite and foraminifers
20	R	1	54	300.34	D			10	50						2	3		1		1				30	3											Nannofossil and clay with calcite
20	R	1	68	300.48	D		15		40						8	1				5		1		30												Nannofossil claystone with calcite
20	R	2	70	302	D			20	35		2					3								25	10								5			Claystone with foraminifers, calcite, and Nannofossil
21	R	3	105	313.45	D			2	32				*		2	1		2				1		50	10											Clay and Nannofossil chalk with foraminifers
21	R	6	63	317.55	D		15		34						2			2				2		30	15											Nannofossil and clay chalk with calcite and foraminifers
21	R	7	36	318.8	M		10		18							2		5		5				40	20											Nannofossil chalk with calcite, clay, and foraminifers
22	R	1	50	319.6	D			20	24		3					3		5		5				25	15											Clay and nannofossil chalk with foraminifers and calcareous
22	R	4	88	324.48	D		35		30						2			3						10	20											Calcareous and clay chalk with nannofossils and foraminifers
22	R	6	90	327.5	D			30	25						2			8						10	25											Calcareous clay chalk with nannofossils and foraminifers

Sample						Mineral														Biogenic														Rock				Other	
Core	CT	Sct	Top (cm)	Depth (mbsf)	Lithology	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Clinoptilolite (48)	Dolomite (62)	Feldspar (71)	Glauconite (82)	Opaques (140)	Pyrite (169)	Quartz (172)	Unspecified Minerals (218)	Zeolite (222)	Benthic Forams (20)	Calcispheres (29)	Diatoms (58)	Fish Remains (74)	Foraminifers (78)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	Calcareous debris (161)	Calcareous Fragments (28)	Micrite (119)	Organic Debris Organic Matter (142)	Siliceous Fragments (184)	Other (145)	Comments
Hole B (continued)																																							
23	R	3	36	331.86	M		10		35						1	3		15	*			1		20	15											Clay with calcite, zeolite, foraminifers, and nannofossil
23	R	3	64	332.14	M		10		45						2	5		15				*		8	15											Claystone with calcite, zeolite, and foraminifers
23	R	3	80	332.3	M		5		63						10			10				*		10	2											Claystone with zeolite, pyrite, and foraminifers
23	R	3	100	332.5	D		15		15						5			10						40	15											nannofossil chalk with zeolite, calcite, clay, and foraminifers
23	R	6	70	336.7	D			20	28									2						30	20											nannofossil chalk with calcite, foraminifers and clay
24	R	4	71	343.61	D		25		34		3					2		1						20	15											Calcareous clay chalk with foraminifers and nannofossils
24	R	4	112	344.02	D		25		50							*		10						5	10											Calcareous claystone
25	R	1	46	348.46	D		30		10						2			3						30	25											Calcareous nannofossil and foraminifer chalk with clay
25	R	2	24	349.74	D		5		29						1			15						40	10											Nannofossil claystone with foraminifers and zeolite
26	R	2	95	360.15	D		50		30							*								15	5											Clayey chalk with nannofossils
27	R	5	94	374.24	D		15		25							1		4						40	5					10						Nannofossil chalk with calcite and clay
28	R	1	20	377.1	D		25		45					1		3		7		1				13	5											Calcareous clay with nannofossils
29	R	4	54	386.04	D		8	30	40					1		1		5		*				10	5											Calcareous clay
30	R	2	103	389.03	D	*	2	35	48							3								10	2											Calcareous claystone
31	R	1	120	392.3	D		5	37	25				*	1		*		5						10	5					5		7				Chalk with clay
32	R	1	134	397.44	D		8	15	29					5		1		5						15	12							10				Clayey chalk with organic matter
33	R	2	75	402.95	D		5	5	30					5		*		15						10	15							15				Calcareous claystone with organic debris and zeolite
34	R	5	26	411.96	D				68									12														15		5	Claystone with zeolite and organic matter
34	R	5	65	412.35	D		8	25	35					2		*		10						10	5							5				Clayey limestone
35	R	1	101	416.31	D		2		38					10				25						*								25				Zeolitic organic matter claystone
36	R	1	60	425.5	D		10	2	40					3		*		12						15	8							10				Calcareous claystone with organic matter and zeolite
36	R	2	7.5	426.48	D			20	35					1		1		5						15	15					3		5				Clayey limestone with foraminifers and nannofossils

Sample						Mineral														Biogenic													Rock				Other	
Core	CT	Sct	Top (cm)	Depth (mbsf)	Lithology	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Clinoptilolite (48)	Dolomite (62)	Feldspar (71)	Glauconite (82)	Opaques (140)	Pyrite (169)	Quartz (172)	Unspecified Minerals (218)	Zeolite (222)	Benthic Forams (20)	Calcispheres (29)	Diatoms (58)	Fish Remains (74)	Foraminifers (78)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	Calcareous debris (161)	Calcareous Fragments (28)	Micrite (119)	Organic Debris Organic Matter (142)	Siliceous Fragments (184)	Other (145)	Comments
Hole B (continued)																																					
37	R	2	81	436.81	D		4	18	30									11						15	10							12			Clayey chalk with zeolite and organic matter
38	R	1	98	445.08	D	3	5		34					5	3	10						5		2	15					3		5	10		Claystone with quartz, siliceous debris, and foraminifers
38	R	2	69	446.29	D		20		32					3	5							5		15	10								10		Claystone with foraminifers, siliceous debris, nannofossils, and calcareous debris
39	R	1	91	454.61	D		10		56					3		1		5						10	10							5			Calcareous claystone
39	R	3	70	457.4	D		38		35					1		1		5				*		10	10										Clayey chalk with foraminifers and nannofossils
40	R	2	44	465.04	D		65		20							10						5		*											Micrite with fish remains, quartz ,and clay
40	R	2	100	465.6	D				65					5				*						15	5	*						10			Claystone with pyrite, foraminifers, organic matter ,and nannofossils
41	R	1	130	474	D		5		57					2	3	3						3		15	5							5	2		Claystone with organic matter and nannofossils
41	R	3	60	476.3	D		15		41							2						2		20	15							5			Claystone with organic matter, foraminifers and nannofossils
42	R	1	70	483	D		10		58					5		15						1		10	1										Claystone with calcite, nannofossils, and quartz
42	R	2	110	484.68	D		20		55					10		15																			Claystone with opaque minerals quartz and calcite
43	R	2	40	489.8	D		10		60					7		20		2				1		*	*										Claystone with opaque minerals calcite and quartz silt
43	R	2	118	490.58	M		10		9					20		60								*	1									*	Quartz siltstone with opaque minerals
44	R	CC	4	494.22	D		10		57					5		25						3		*	*									*	Claystone with calcite and quartz silt
45	R	2	117	499.17	D		25		45					7		20		1				2		*											Calcareous claystone with opaque minerals and quartz silt
46	R	2	80	503.8	D		10		51				*	5		30						2		1	1									*	Silty quartz claystone with calcite

Sample								Mineral										Biogenic							Rock											
Cor	CT	Sct	Top (cm)	Bot (cm)	Depth (mbsf)	Thin Section Number	Lithology	Calcite	Clay	Barite	Glauconite	Opaque Minerals	Pyrite	Muscovite	Quartz	Zeolite	Bioclast	Fish Remains	Fecal pellets	Foraminifers	Planktonic Foraminifers	Calcareous Shell Fragments	Calcareous Peloids	Matrix	Micrite	Sparite	Peloids	Pebble	Wackestone	Organic Matter		Lithology	Comments
Hole A																																			
49	R	CC	0	7	450.82	123	D		15			2						20			35				25					3	100	Foraminifer chalk with clay and fish remains	Very peculiar facies.
53	R	1	57	60	481.87	83	D		15			3			9		5	1		3					39	25					100	Wackestone	Bioclasts are mainly unidentifiable. 20% microspar and 5% sparite, and micrite constitutes matrix.
53	R	2	20	24	483.00	84	D		5			1		1	20		20	11						22			19	1			100	Limestone with fish debris, quartz, bioclasts and peloids	Subrounded quartz. Bioclasts are mainly neomorphic spar. Pebble in this thin section is quartz wackestone containing quartz, glauconite, opaque minerals, fish debris, clayey micrite (80%). Peloids is micritic.
53	R	2	126	129	484.06	85						5			13			1								81					100	Wackestone with quartz	One interesting quartz-ring biological?
54	R	3	50	53	491.10	86	D		20			5			20			*								55					100	Wackestone with quartz (and clay)	few pebbles with coarse-grained (dirty) calcite.
Hole B																																			
28	R	1	34	36	377.24	87	M			85			10																5		100	Barite concretion	Concretion is growing in foraminifer wackestone
34	R	1	0	4	405.70	88	M	18			36		15					7			6									18	100	Glauconitic sand with calcite, pyrite, and organic matter	Sediment is recrystallized black shale alternating with foraminifer sand. Glauconite grew later in sediment.
34	R	2	115	119	408.35	94			20			2				*		1	25		20				20					12	100	Foraminifer wackestone with organic matter	Laminated black shale rich in foraminifers (oriented parallel bedding plane). Foraminifers are filled with blocky calcite. Fecal pellets are micritic. Micrite is background micrite.
34	R	CC	13	16	413.50	93	D		30			5							1	15					49						100	Foraminifer wackestone	Clay with organic matter. Microsparite.
35	R	2	136	140	418.16	95	D		30			4						1			35				25					5	100	Foraminifer wackestone alternating with foraminifer packstone	Alternating layers of foraminifer wackestone and foraminifer packstone. Foraminifers are filled with blocky calcite.
35	R	3	135	139	419.65	96	D	60	10			2						1					5		10	10				2	100	Chalk	Foraminifers are counted as sparite. Fecal pellet micrite. Micrite peloids.
35	R	4	138	142	421.13	89	M	88	7			2									1				1					1	100	Diagenetic calcite layer	Calcite replaces black shale. Micrite pellets. Foraminifers in black shale area. Organic debris in top part of thin section.
35	R	5	6	10	421.31	90	M	90	5			5																			100	Diagenetic calcite	CAUTION: broken, sharp edges. Coarse-grained diagenetic calcite.
36	R	1	0	4	424.90	97			20			2				*		1	15		30				27					5	100	Foraminifer wackestone to packstone	Laminated foraminifer-rich limestone with organic matter (oriented parallel bedding). Foraminifers are filled with blocky calcite. Fecal pellets are small and micritic. Micrite is background micrite.

Sample								Mineral										Biogenic							Rock									
Cor	CT	Sct	Top (cm)	Bot (cm)	Depth (mbsf)	Thin Section Number	Lithology	Calcite	Clay	Barite	Glauconite	Opaque Minerals	Pyrite	Muscovite	Quartz	Zeolite	Bioclast	Fish Remains	Fecal pellets	Foraminifers	Planktonic Foraminifers	Calcareous Shell Fragments	Calcareous Peloids	Matrix	Micrite	Sparite	Peloids	Pebble	Wackestone	Organic Matter		Lithology	Comments
Hole B (continued)																																	
36	R	6	97	100	433.37	98	D/M						3				5	5			29			58							100	Foraminifer packstone (with fish debris)	Fish debris is common. Sediment has laminated appearance.
37	R	5	108	110	441.58	91			17							*		1	15		44				20					3	100	Foraminifer wackestone and packstone (alternating)	The thin section includes clay and organic matter streaks/stringers. Foraminifers are filled with blocky calcite.
42	R	2	10	12	483.68	92	M						3		15			10				30	42								100	Peloidal packstone with quartz and calcareous shell debris	Pyrite replacement of peloidal material. Fish remains include phosphate.