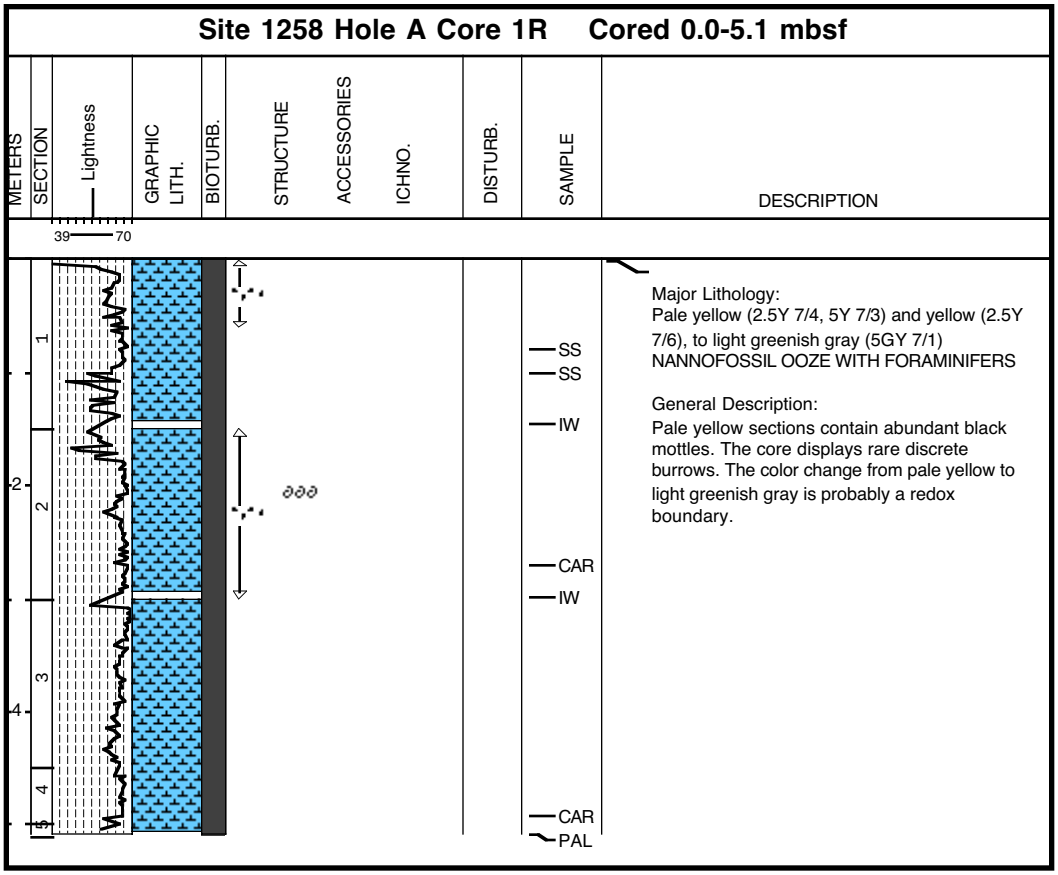
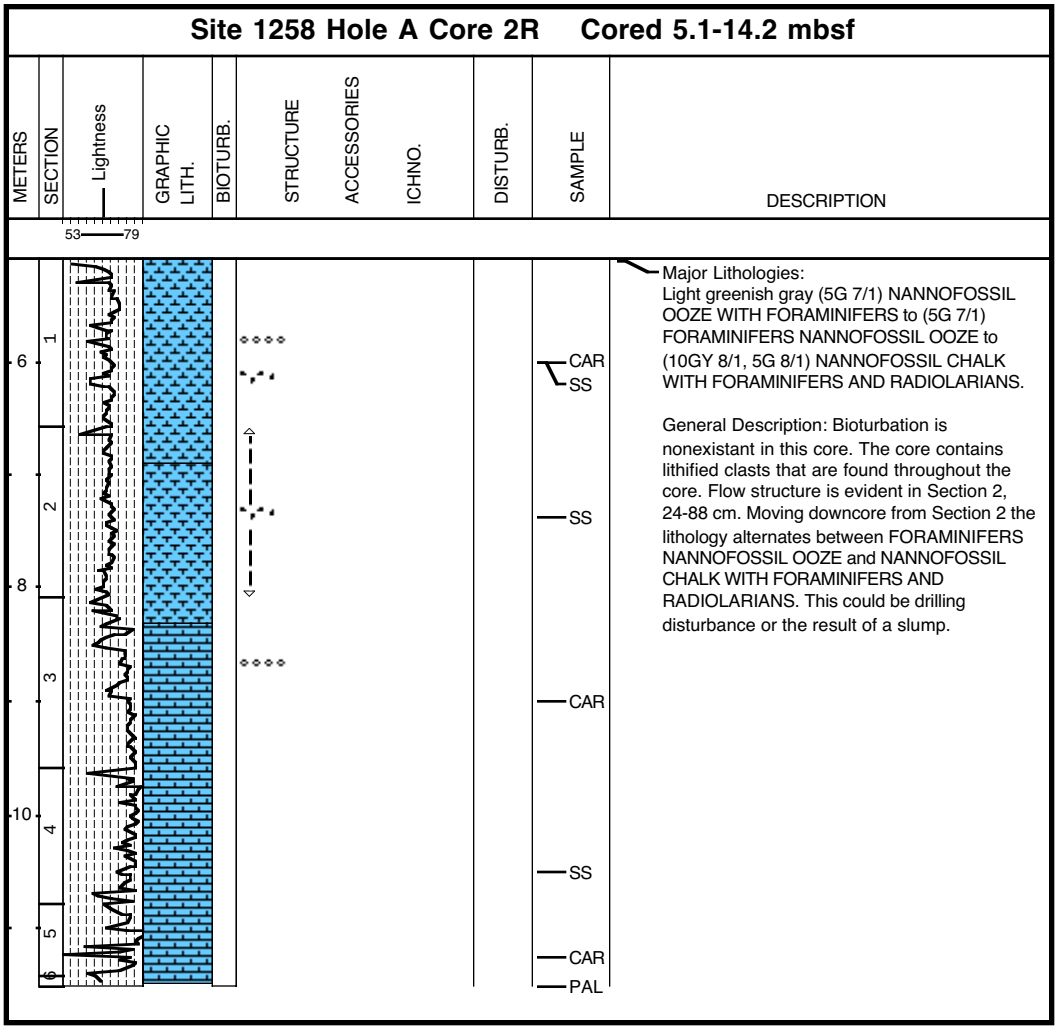
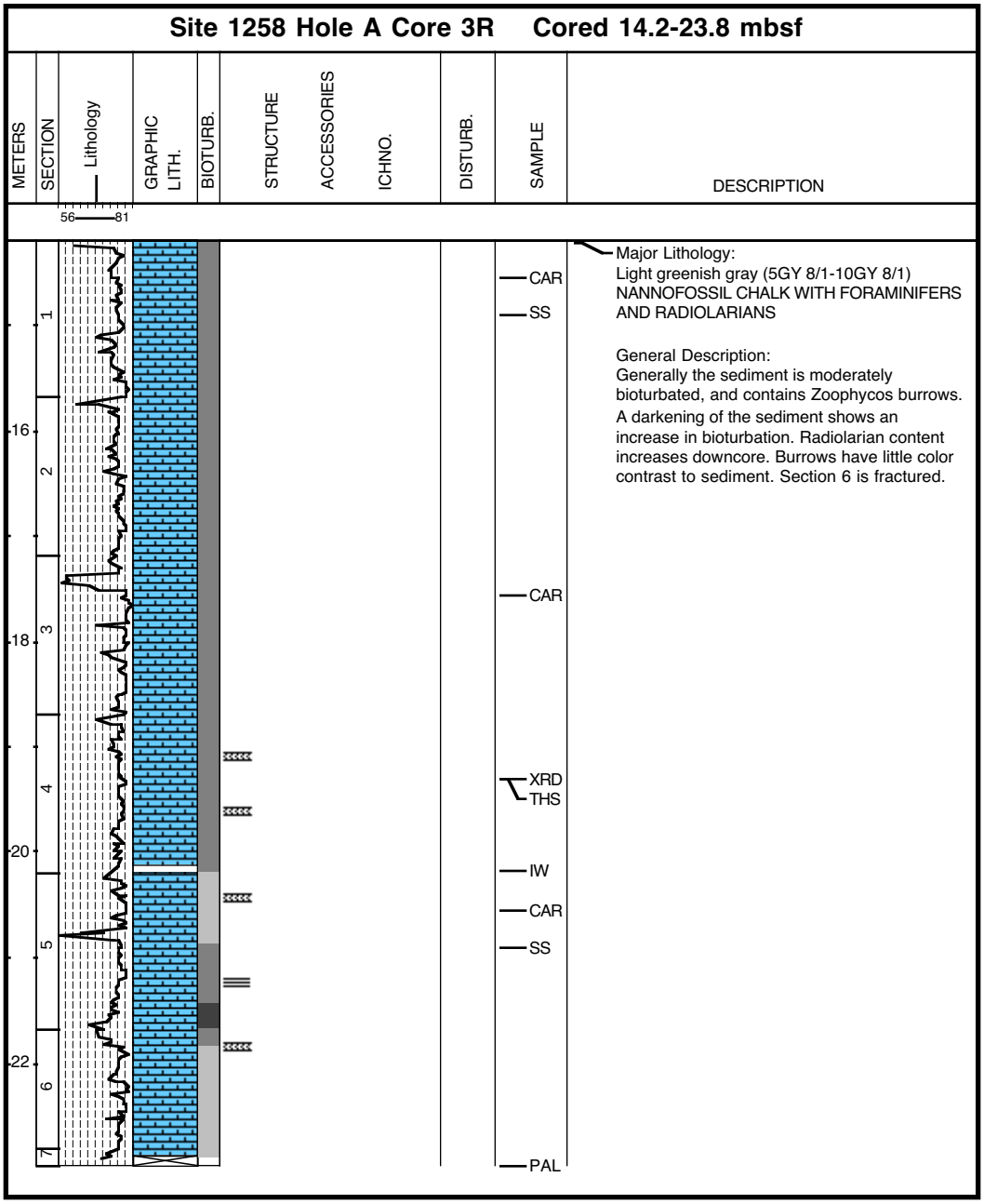
Core Photo


Site 1258 Hole A Core 1R Cored 0.0-5.1 mbsf
METERS
SECTION
Lightness
39
70
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
SS
SS
IW
CAR
IW
CAR
PAL
Major Lithology:
Pale yellow (2.5Y 7/4, 5Y 7/3) and yellow (2.5Y 7/6), to light greenish gray (5GY 7/1) NANNOFOSSIL OOZE WITH FORAMINIFERS
General Description:
Pale yellow sections contain abundant black mottles. The core displays rare discrete burrows. The color change from pale yellow to light greenish gray is probably a redox boundary.

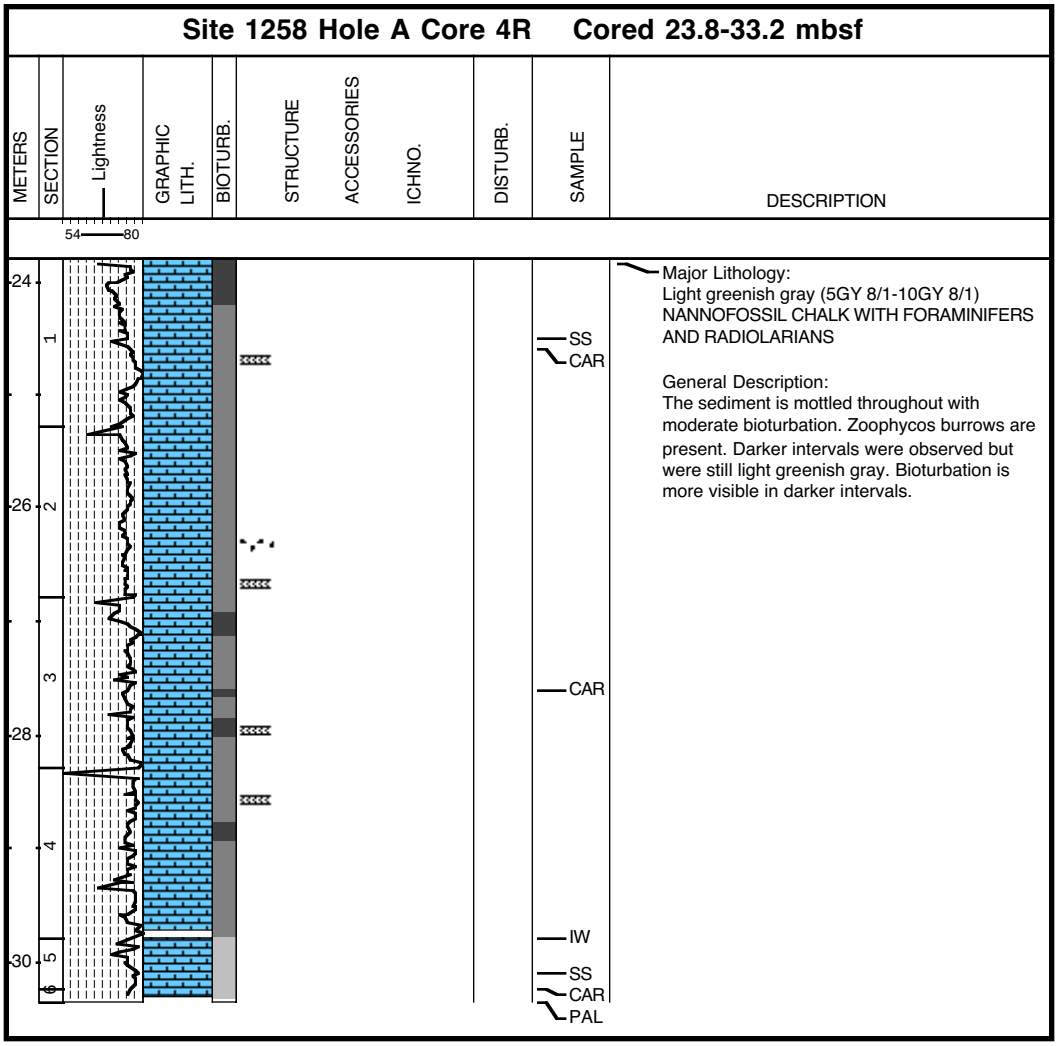
Core Photo


Site 1258 Hole A Core 2R Cored 5.1-14.2 mbsf
METERS
SECTION
Lightness
53
79
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
6
8
10
1
2
3
4
5
6
CAR
SS
SS
CAR
SS
CAR
PAL
Major Lithologies:
Light greenish gray (5G 7/1) NANNOFOSSIL OOZE WITH FORAMINIFERS to (5G 7/1) FORAMINIFERS NANNOFOSSIL OOZE to (10GY 8/1, 5G 8/1) NANNOFOSSIL CHALK WITH FORAMINIFERS AND RADIOLARIANS.
General Description: Bioturbation is nonexistant in this core. The core contains lithified clasts that are found throughout the core. Flow structure is evident in Section 2, 24-88 cm. Moving downcore from Section 2 the lithology alternates between FORAMINIFERS NANNOFOSSIL OOZE and NANNOFOSSIL CHALK WITH FORAMINIFERS AND RADIOLARIANS. This could be drilling disturbance or the result of a slump.

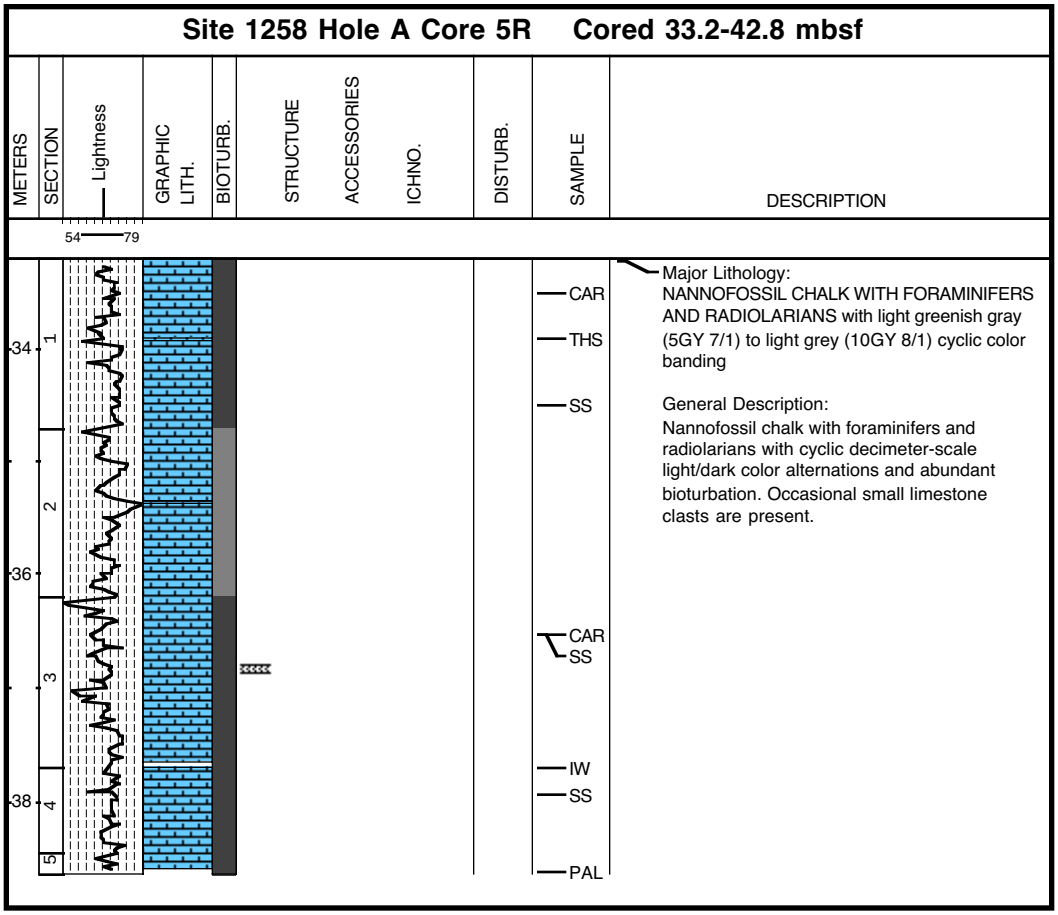
Core Photo


Site 1258 Hole A Core 3R Cored 14.2-23.8 mbsf
METERS
SECTION
Lithology
56
81
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
16
18
20
22
1
2
3
4
5
6
7
CAR
SS
CAR
XRD
THS
IW
CAR
SS
PAL
Major Lithology:
Light greenish gray (5GY 8/1-10GY 8/1) NANNOFOSSIL CHALK WITH FORAMINIFERS AND RADIOLARIANS
General Description:
Generally the sediment is moderately bioturbated, and contains Zoophycos burrows. A darkening of the sediment shows an increase in bioturbation. Radiolarian content increases downcore. Burrows have little color contrast to sediment. Section 6 is fractured.

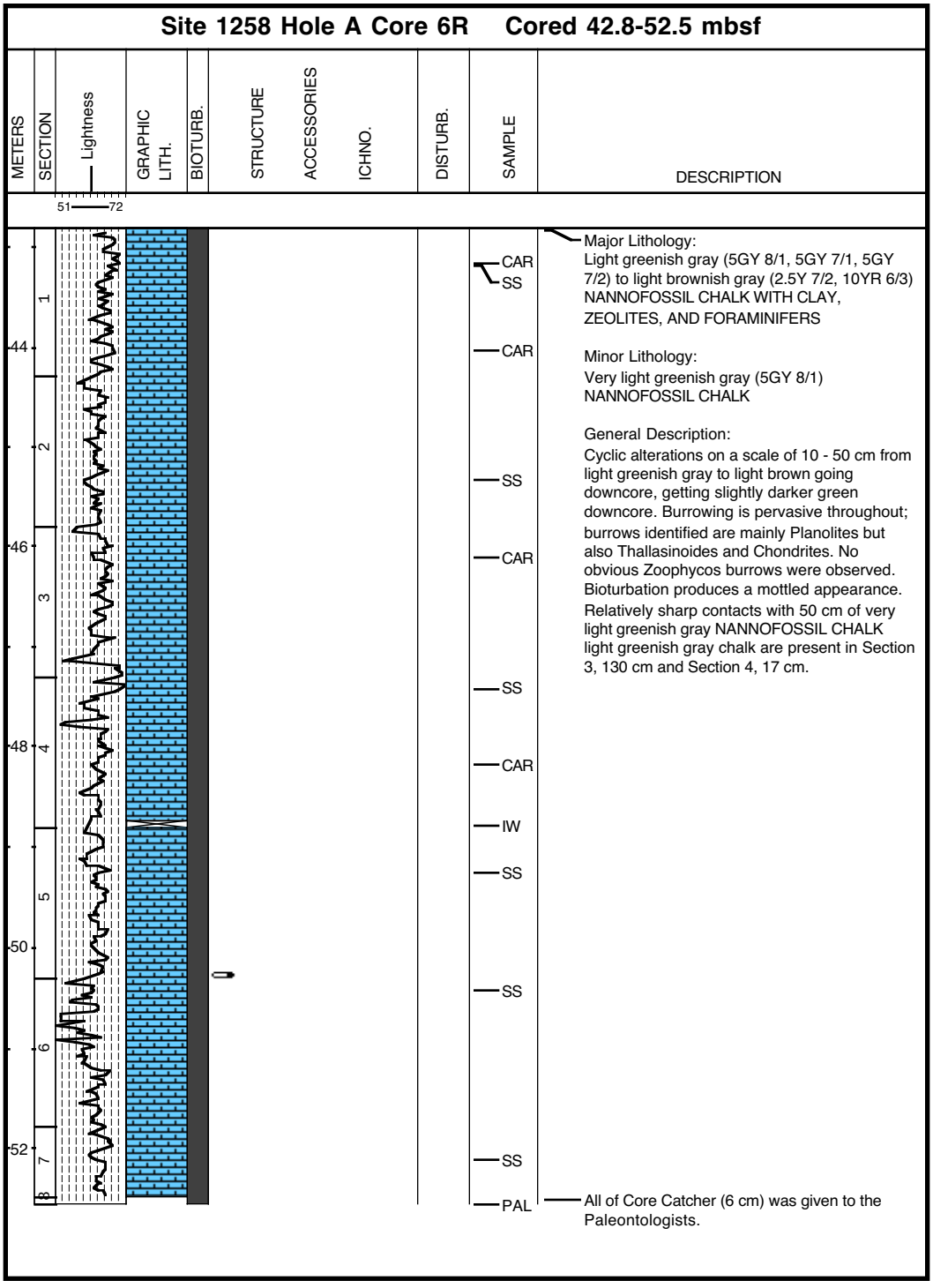
Core Photo


Site 1258 Hole A Core 4R Cored 23.8-33.2 mbsf
METERS
SECTION
Lightness
54
80
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
24
26
28
30
1
2
3
4
5
6
SS
CAR
CAR
IW
SS
CAR
PAL
Major Lithology:
Light greenish gray (5GY 8/1-10GY 8/1)
NANNOFOSSIL CHALK WITH FORAMINIFERS
AND RADIOLARIANS
General Description:
The sediment is mottled throughout with
moderate bioturbation. Zoophycos burrows are
present. Darker intervals were observed but
were still light greenish gray. Bioturbation is
more visible in darker intervals.

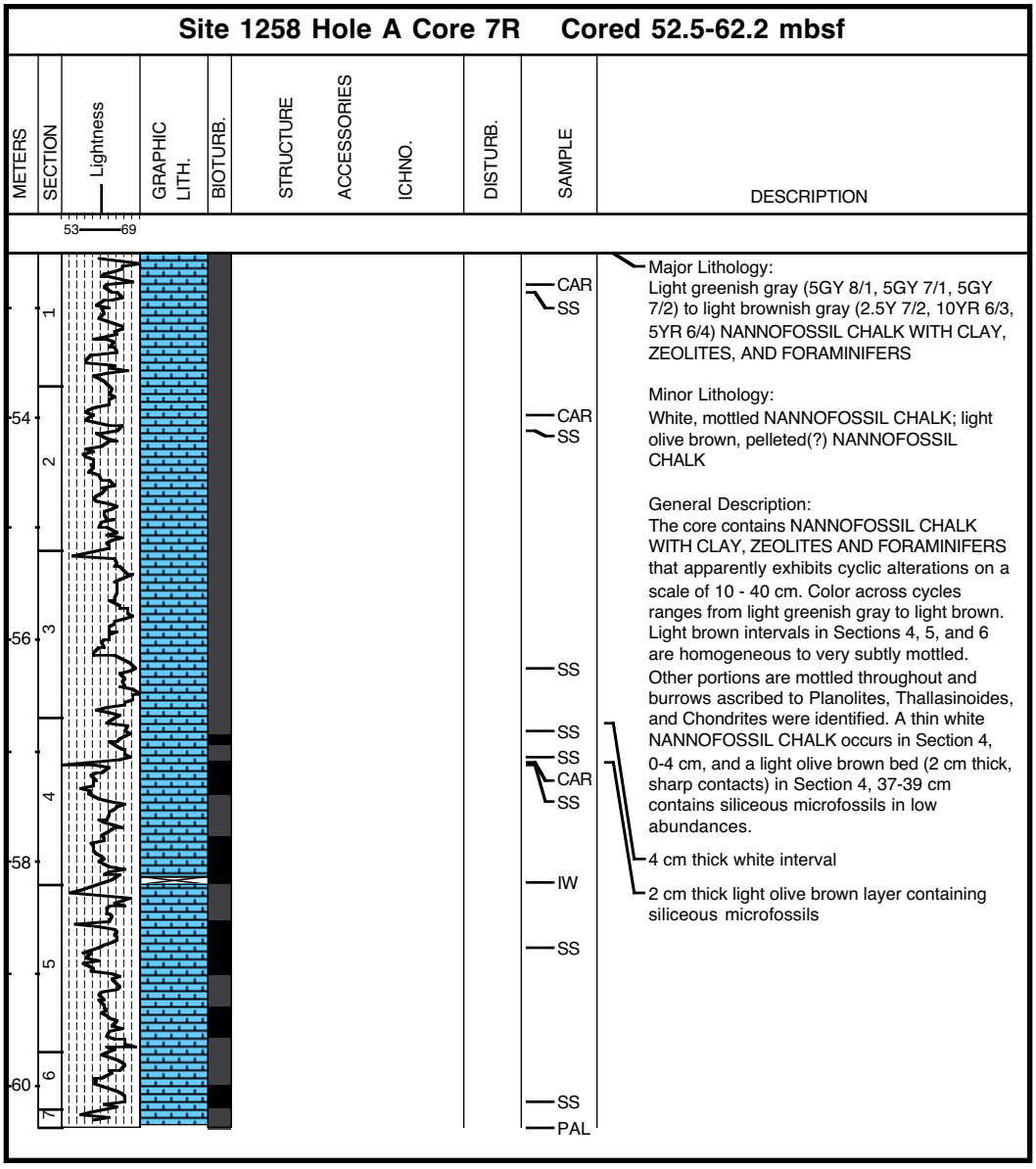
Core Photo


Site 1258 Hole A Core 5R Cored 33.2-42.8 mbsf
METERS
SECTION
Lightness
54
79
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
34
36
38
1
2
3
4
5
CAR
THS
SS
CAR
SS
IW
SS
PAL
Major Lithology:
NANNOFOSSIL CHALK WITH FORAMINIFERS AND RADIOLARIANS with light greenish gray (5GY 7/1) to light grey (10GY 8/1) cyclic color banding
General Description:
Nannofossil chalk with foraminifers and radiolarians with cyclic decimeter-scale light/dark color alternations and abundant bioturbation. Occasional small limestone clasts are present.

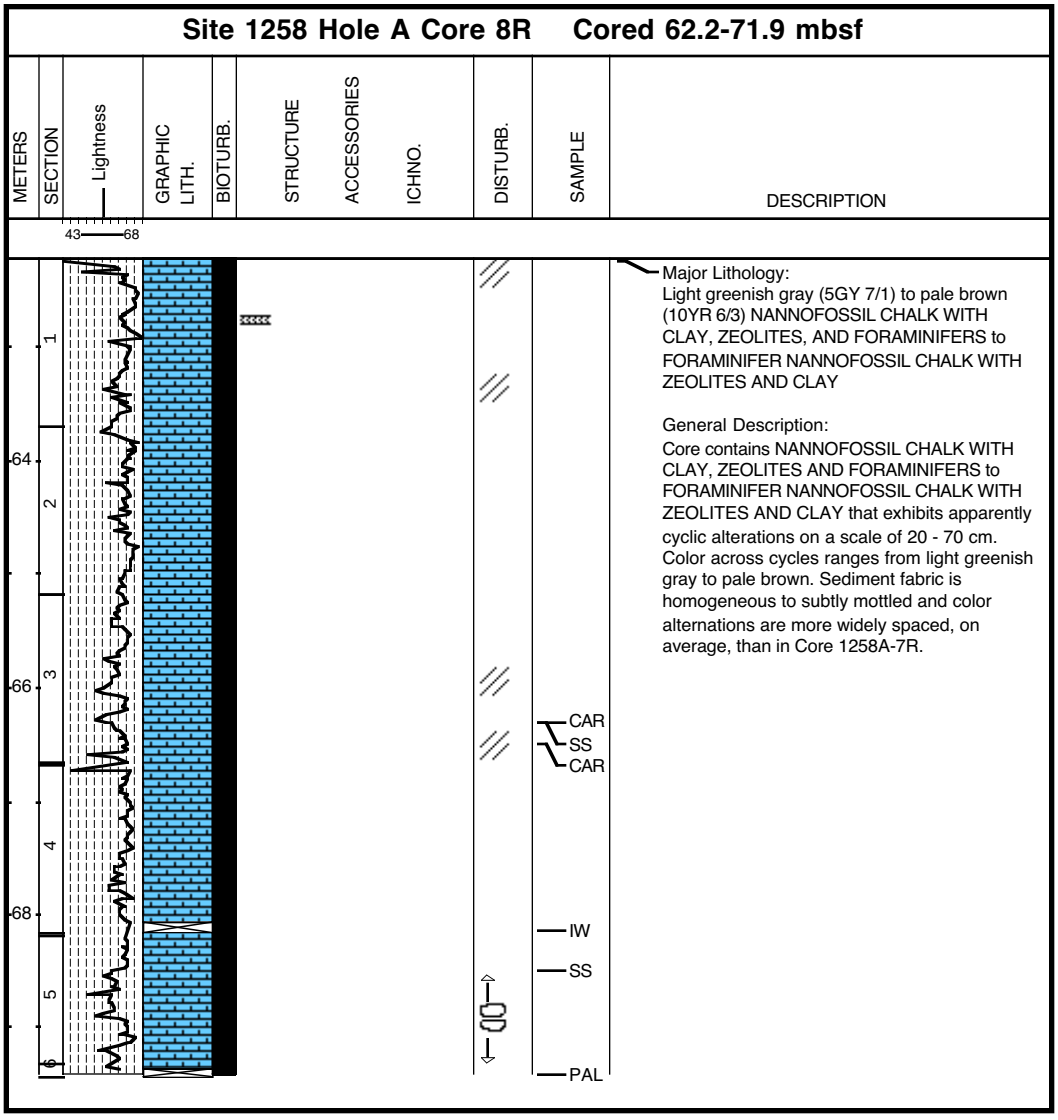
Core Photo


Site 1258 Hole A Core 6R Cored 42.8-52.5 mbsf
METERS
SECTION
Lightness
51
72
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
44
46
48
50
52
1
2
3
4
5
6
7
CC
CAR
SS
CAR
SS
CAR
SS
CAR
IW
SS
SS
SS
PAL
Major Lithology:
Light greenish gray (5GY 8/1, 5GY 7/1, 5GY 7/2) to light brownish gray (2.5Y 7/2, 10YR 6/3) NANNOFOSSIL CHALK WITH CLAY, ZEOLITES, AND FORAMINIFERS
Minor Lithology:
Very light greenish gray (5GY 8/1) NANNOFOSSIL CHALK
General Description:
Cyclic alterations on a scale of 10 - 50 cm from light greenish gray to light brown going downcore, getting slightly darker green downcore. Burrowing is pervasive throughout; burrows identified are mainly Planolites but also Thallasinoides and Chondrites. No obvious Zoophycos burrows were observed. Bioturbation produces a mottled appearance. Relatively sharp contacts with 50 cm of very light greenish gray NANNOFOSSIL CHALK light greenish gray chalk are present in Section 3, 130 cm and Section 4, 17 cm.
All of Core Catcher (6 cm) was given to the Paleontologists.

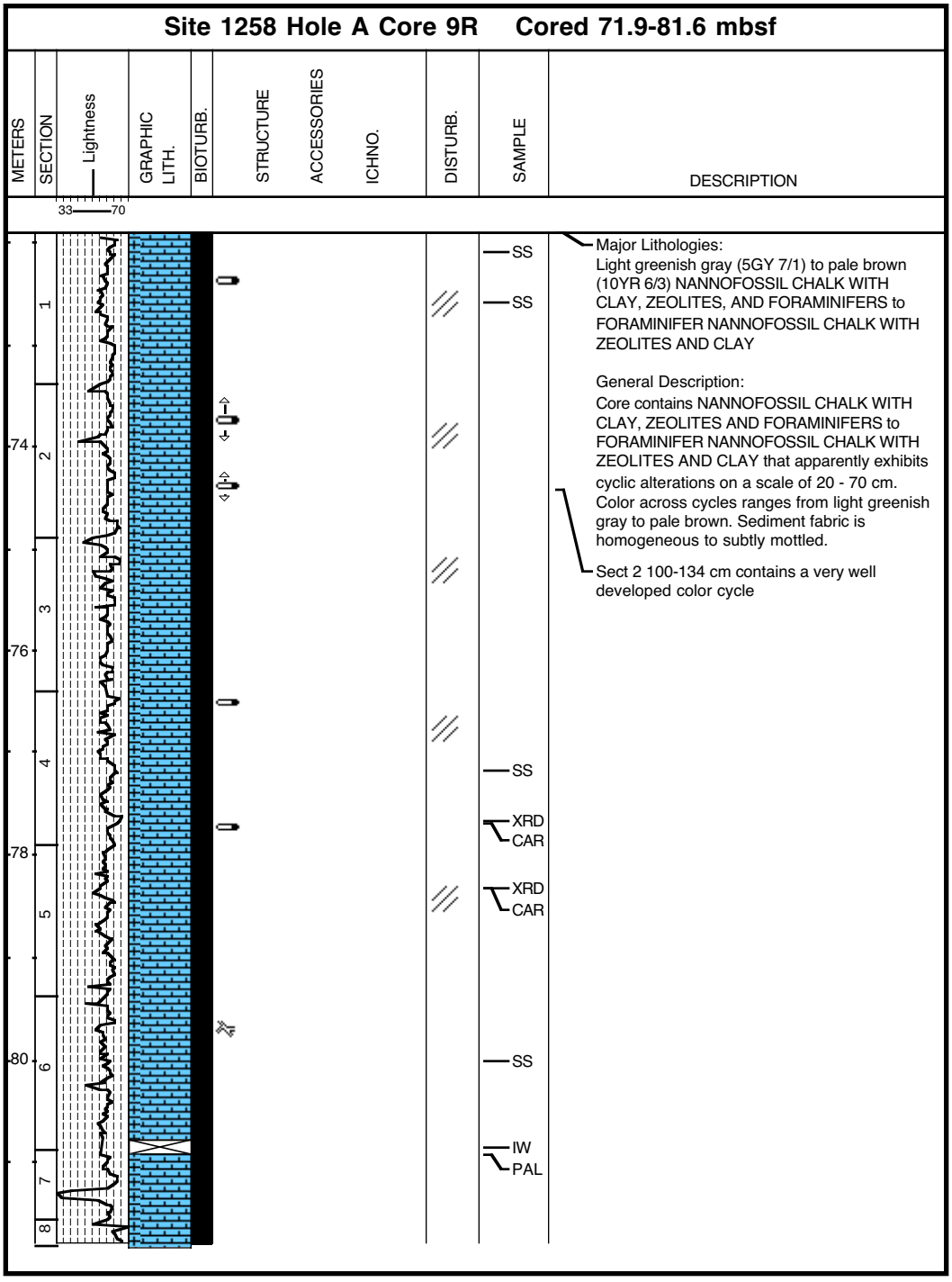
Core Photo


Site 1258 Hole A Core 7R Cored 52.5-62.2 mbsf
METERS
SECTION
Lightness
53
69
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
54
56
58
60
1
2
3
4
5
6
7
CAR
SS
CAR
SS
SS
SS
SS
CAR
SS
IW
SS
SS
PAL
Major Lithology:
Light greenish gray (5GY 8/1, 5GY 7/1, 5GY 7/2) to light brownish gray (2.5Y 7/2, 10YR 6/3, 5YR 6/4) NANNOFOSSIL CHALK WITH CLAY, ZEOLITES, AND FORAMINIFERS
Minor Lithology:
White, mottled NANNOFOSSIL CHALK; light olive brown, pelleted(?) NANNOFOSSIL CHALK
General Description:
The core contains NANNOFOSSIL CHALK WITH CLAY, ZEOLITES AND FORAMINIFERS that apparently exhibits cyclic alterations on a scale of 10 - 40 cm. Color across cycles ranges from light greenish gray to light brown. Light brown intervals in Sections 4, 5, and 6 are homogeneous to very subtly mottled. Other portions are mottled throughout and burrows ascribed to Planolites, Thallasinoides, and Chondrites were identified. A thin white NANNOFOSSIL CHALK occurs in Section 4, 0-4 cm, and a light olive brown bed (2 cm thick, sharp contacts) in Section 4, 37-39 cm contains siliceous microfossils in low abundances.
4 cm thick white interval
2 cm thick light olive brown layer containing siliceous microfossils

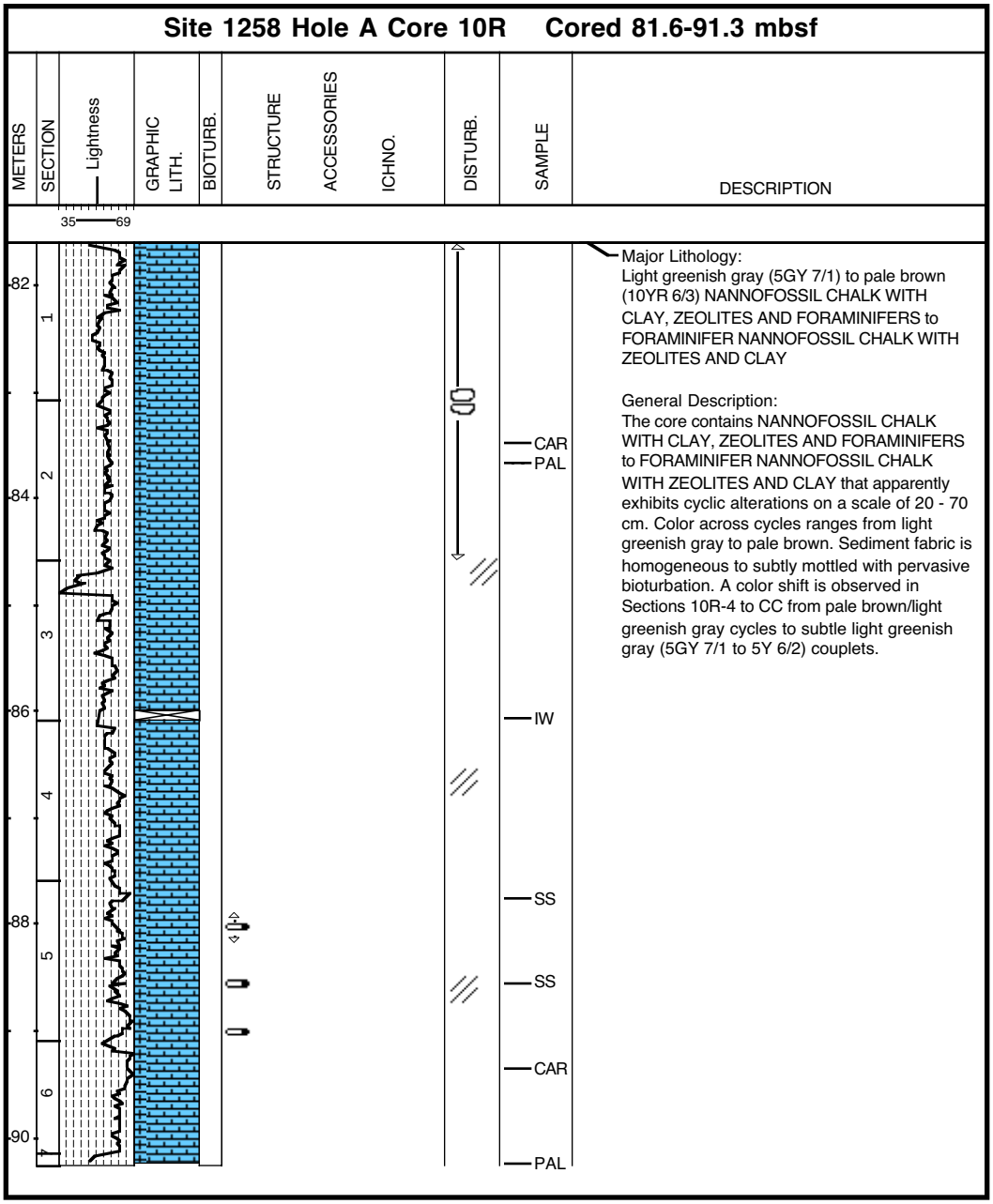
Core Photo


Site 1258 Hole A Core 8R Cored 62.2-71.9 mbsf
METERS
SECTION
Lightness
43
68
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
64
66
68
1
2
3
4
5
6
CAR
SS
CAR
IW
SS
PAL
Major Lithology:
Light greenish gray (5GY 7/1) to pale brown (10YR 6/3) NANNOFOSSIL CHALK WITH CLAY, ZEOLITES, AND FORAMINIFERS to FORAMINIFER NANNOFOSSIL CHALK WITH ZEOLITES AND CLAY
General Description:
Core contains NANNOFOSSIL CHALK WITH CLAY, ZEOLITES AND FORAMINIFERS to FORAMINIFER NANNOFOSSIL CHALK WITH ZEOLITES AND CLAY that exhibits apparently cyclic alterations on a scale of 20 - 70 cm. Color across cycles ranges from light greenish gray to pale brown. Sediment fabric is homogeneous to subtly mottled and color alternations are more widely spaced, on average, than in Core 1258A-7R.

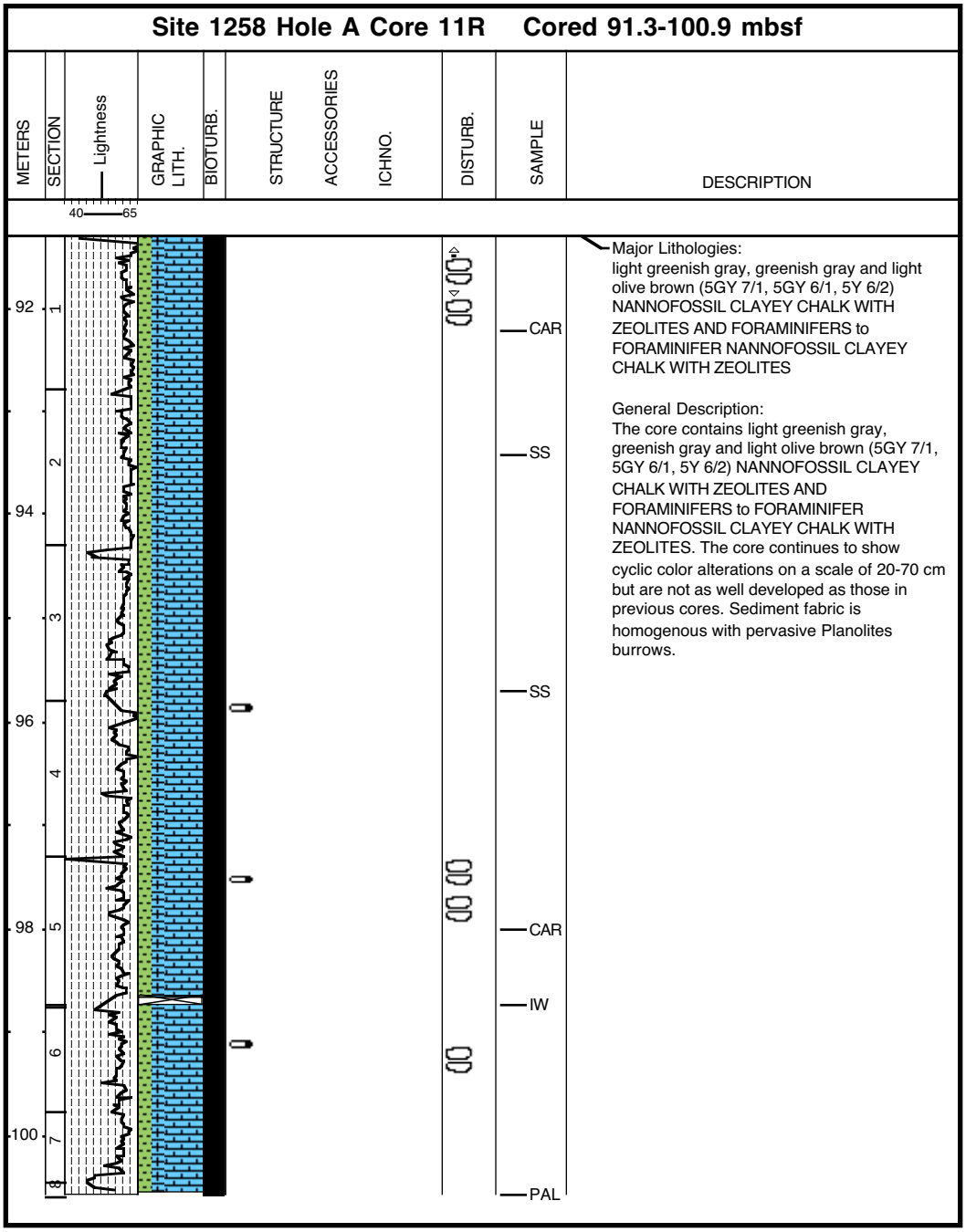
Core Photo


Site 1258 Hole A Core 9R Cored 71.9-81.6 mbsf
METERS
SECTION
Lightness
33
70
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
74
76
78
80
1
2
3
4
5
6
7
8
SS
SS
SS
XRD
CAR
XRD
CAR
SS
IW
PAL
Major Lithologies:
Light greenish gray (5GY 7/1) to pale brown (10YR 6/3) NANNOFOSSIL CHALK WITH CLAY, ZEOLITES, AND FORAMINIFERS to FORAMINIFER NANNOFOSSIL CHALK WITH ZEOLITES AND CLAY
General Description:
Core contains NANNOFOSSIL CHALK WITH CLAY, ZEOLITES AND FORAMINIFERS to FORAMINIFER NANNOFOSSIL CHALK WITH ZEOLITES AND CLAY that apparently exhibits cyclic alterations on a scale of 20 - 70 cm. Color across cycles ranges from light greenish gray to pale brown. Sediment fabric is homogeneous to subtly mottled.
Sect 2 100-134 cm contains a very well developed color cycle

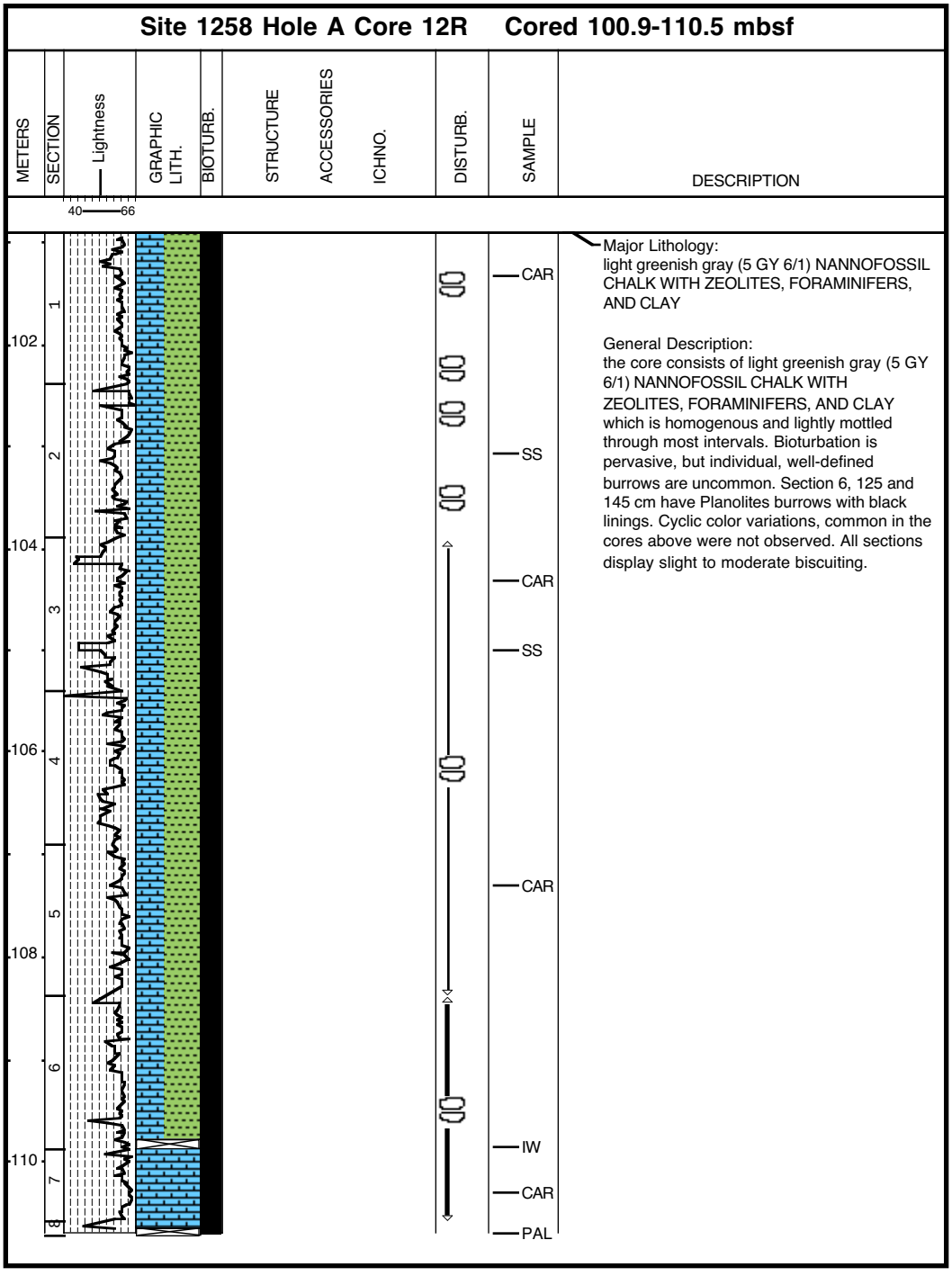
Core Photo


Site 1258 Hole A Core 10R Cored 81.6-91.3 mbsf
METERS
SECTION
Lightness
35
69
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
82
84
86
88
90
1
2
3
4
5
6
7
CAR
PAL
IW
SS
SS
CAR
PAL
Major Lithology:
Light greenish gray (5GY 7/1) to pale brown (10YR 6/3) NANNOFOSSIL CHALK WITH CLAY, ZEOLITES AND FORAMINIFERS to FORAMINIFER NANNOFOSSIL CHALK WITH ZEOLITES AND CLAY
General Description:
The core contains NANNOFOSSIL CHALK WITH CLAY, ZEOLITES AND FORAMINIFERS to FORAMINIFER NANNOFOSSIL CHALK WITH ZEOLITES AND CLAY that apparently exhibits cyclic alterations on a scale of 20 - 70 cm. Color across cycles ranges from light greenish gray to pale brown. Sediment fabric is homogeneous to subtly mottled with pervasive bioturbation. A color shift is observed in Sections 10R-4 to CC from pale brown/light greenish gray cycles to subtle light greenish gray (5GY 7/1 to 5Y 6/2) couplets.

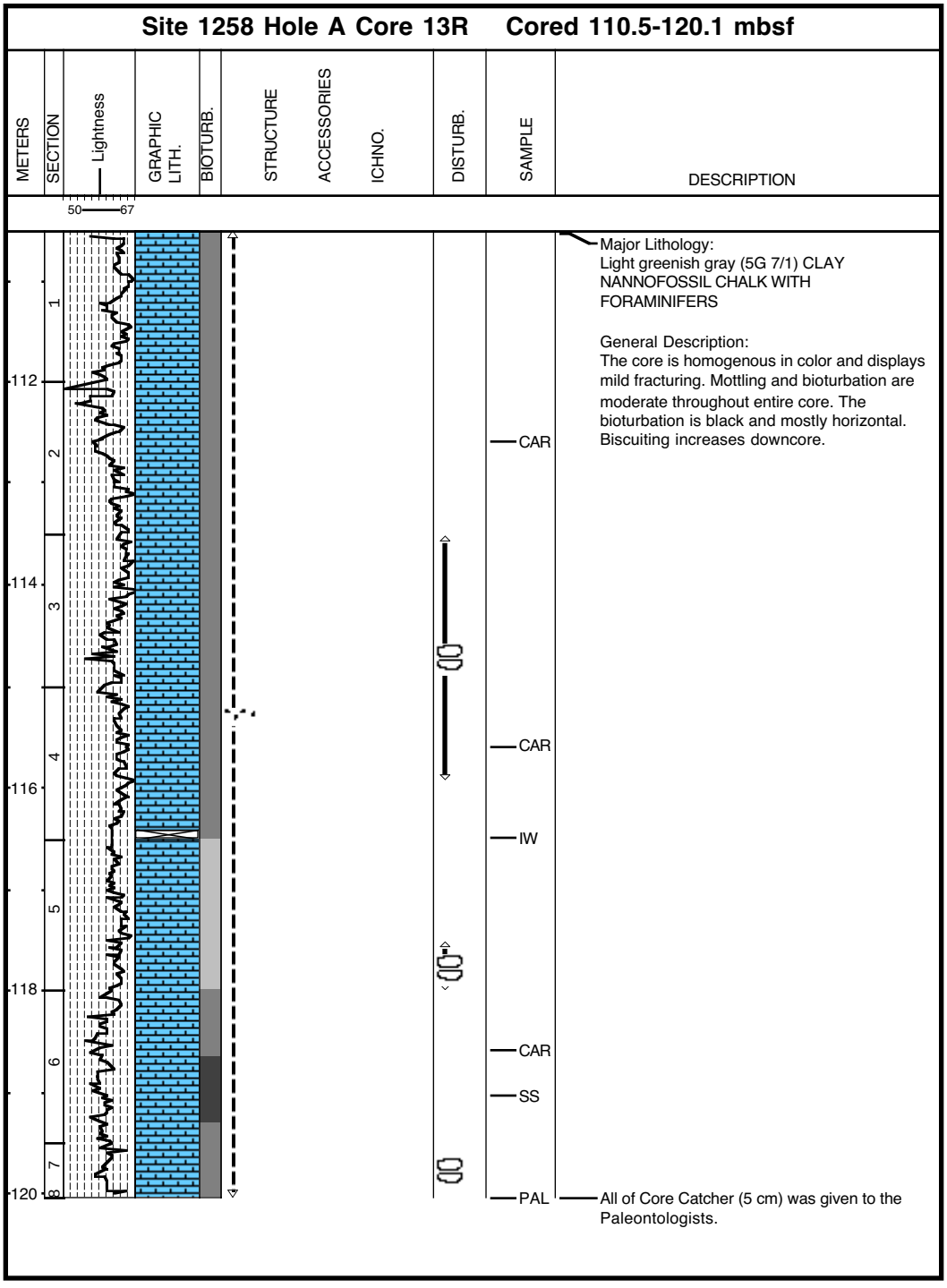
Core Photo


Site 1258 Hole A Core 11R Cored 91.3-100.9 mbsf
METERS
SECTION
Lightness
40
65
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
92
94
96
98
100
1
2
3
4
5
6
7
CAR
SS
SS
CAR
IW
PAL
Major Lithologies:
light greenish gray, greenish gray and light olive brown (5GY 7/1, 5GY 6/1, 5Y 6/2) NANNOFOSSIL CLAYEY CHALK WITH ZEOLITES AND FORAMINIFERS to FORAMINIFER NANNOFOSSIL CLAYEY CHALK WITH ZEOLITES
General Description:
The core contains light greenish gray, greenish gray and light olive brown (5GY 7/1, 5GY 6/1, 5Y 6/2) NANNOFOSSIL CLAYEY CHALK WITH ZEOLITES AND FORAMINIFERS to FORAMINIFER NANNOFOSSIL CLAYEY CHALK WITH ZEOLITES. The core continues to show cyclic color alterations on a scale of 20-70 cm but are not as well developed as those in previous cores. Sediment fabric is homogenous with pervasive Planolites burrows.

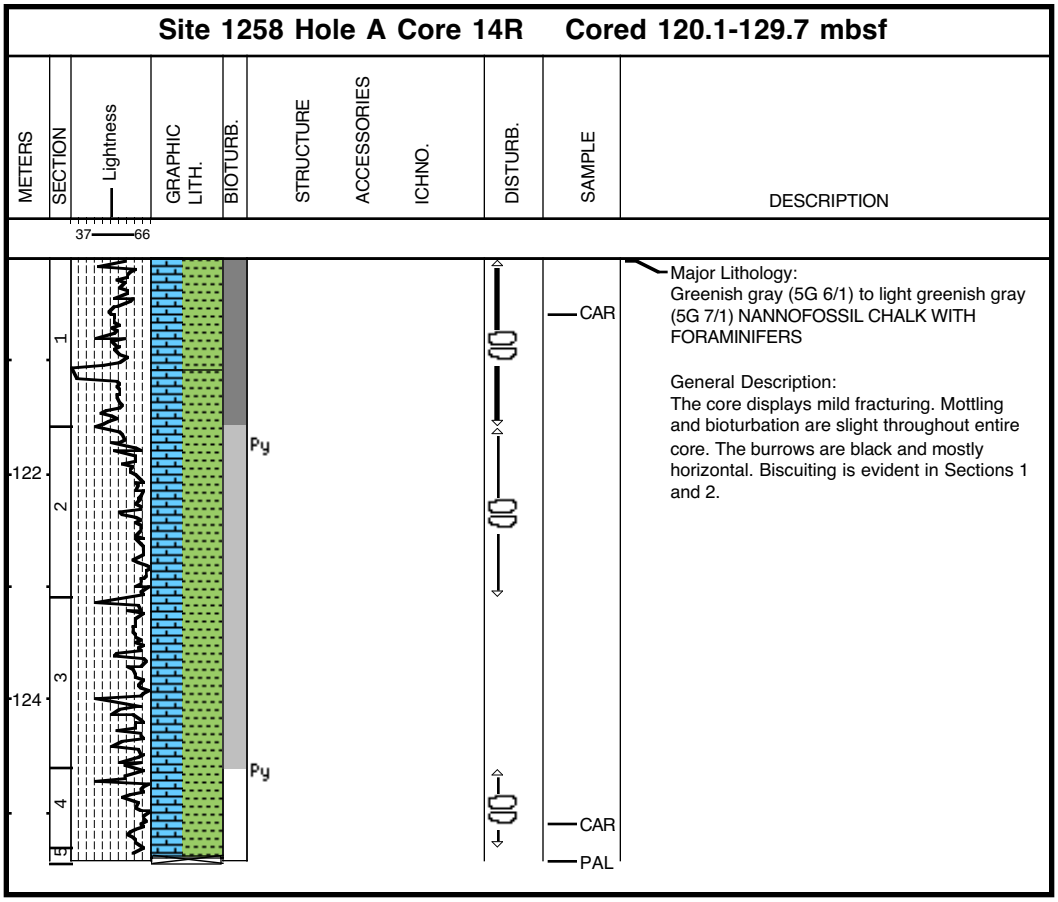
Core Photo


Site 1258 Hole A Core 12R Cored 100.9-110.5 mbsf
METERS
SECTION
Lightness
40
66
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
102
104
106
108
110
1
2
3
4
5
6
7
CAR
SS
CAR
SS
CAR
IW
CAR
PAL
Major Lithology:
light greenish gray (5 GY 6/1) NANNOFOSSIL CHALK WITH ZEOLITES, FORAMINIFERS, AND CLAY
General Description:
the core consists of light greenish gray (5 GY 6/1) NANNOFOSSIL CHALK WITH ZEOLITES, FORAMINIFERS, AND CLAY which is homogenous and lightly mottled through most intervals. Bioturbation is pervasive, but individual, well-defined burrows are uncommon. Section 6, 125 and 145 cm have Planolites burrows with black linings. Cyclic color variations, common in the cores above were not observed. All sections display slight to moderate biscuiting.

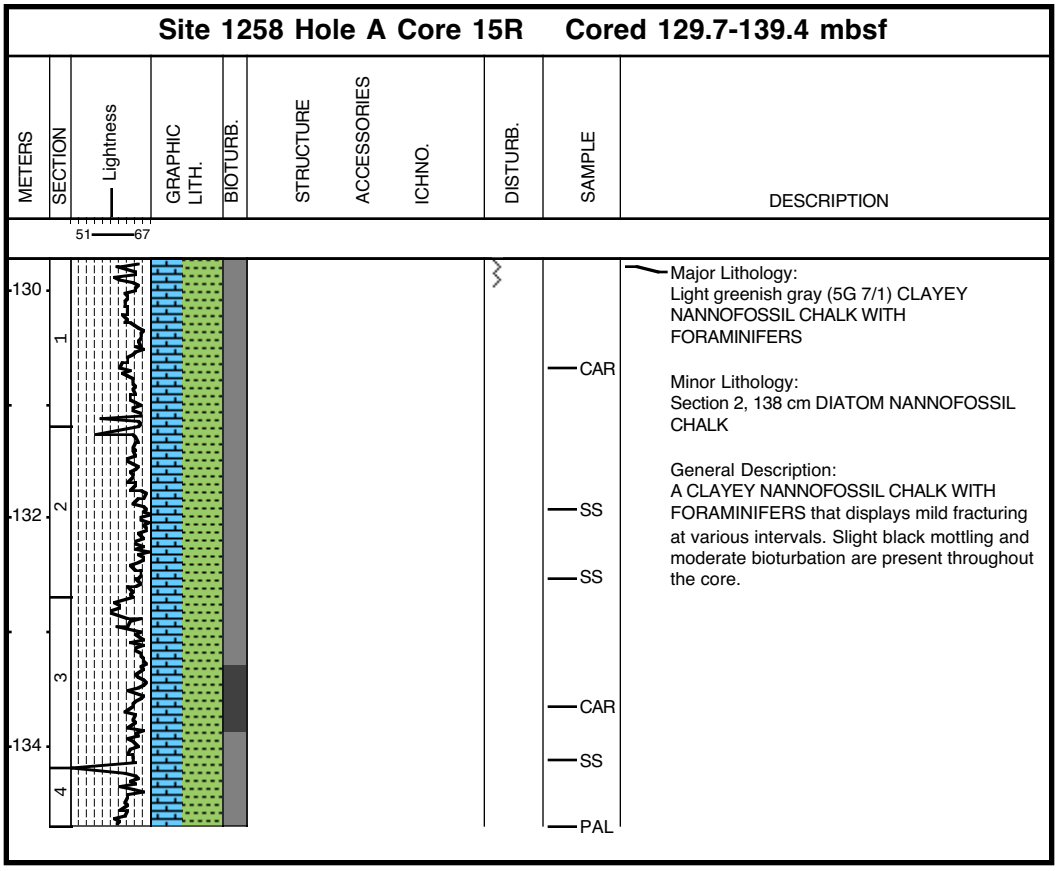
Core Photo


Site 1258 Hole A Core 13R Cored 110.5-120.1 mbsf
METERS
SECTION
Lightness
50
67
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
112
114
116
118
120
1
2
3
4
5
6
7
CAR
CAR
IW
CAR
SS
PAL
Major Lithology:
Light greenish gray (5G 7/1) CLAY NANNOFOSSIL CHALK WITH FORAMINIFERS
General Description:
The core is homogenous in color and displays mild fracturing. Mottling and bioturbation are moderate throughout entire core. The bioturbation is black and mostly horizontal. Biscuiting increases downcore.
All of Core Catcher (5 cm) was given to the Paleontologists.

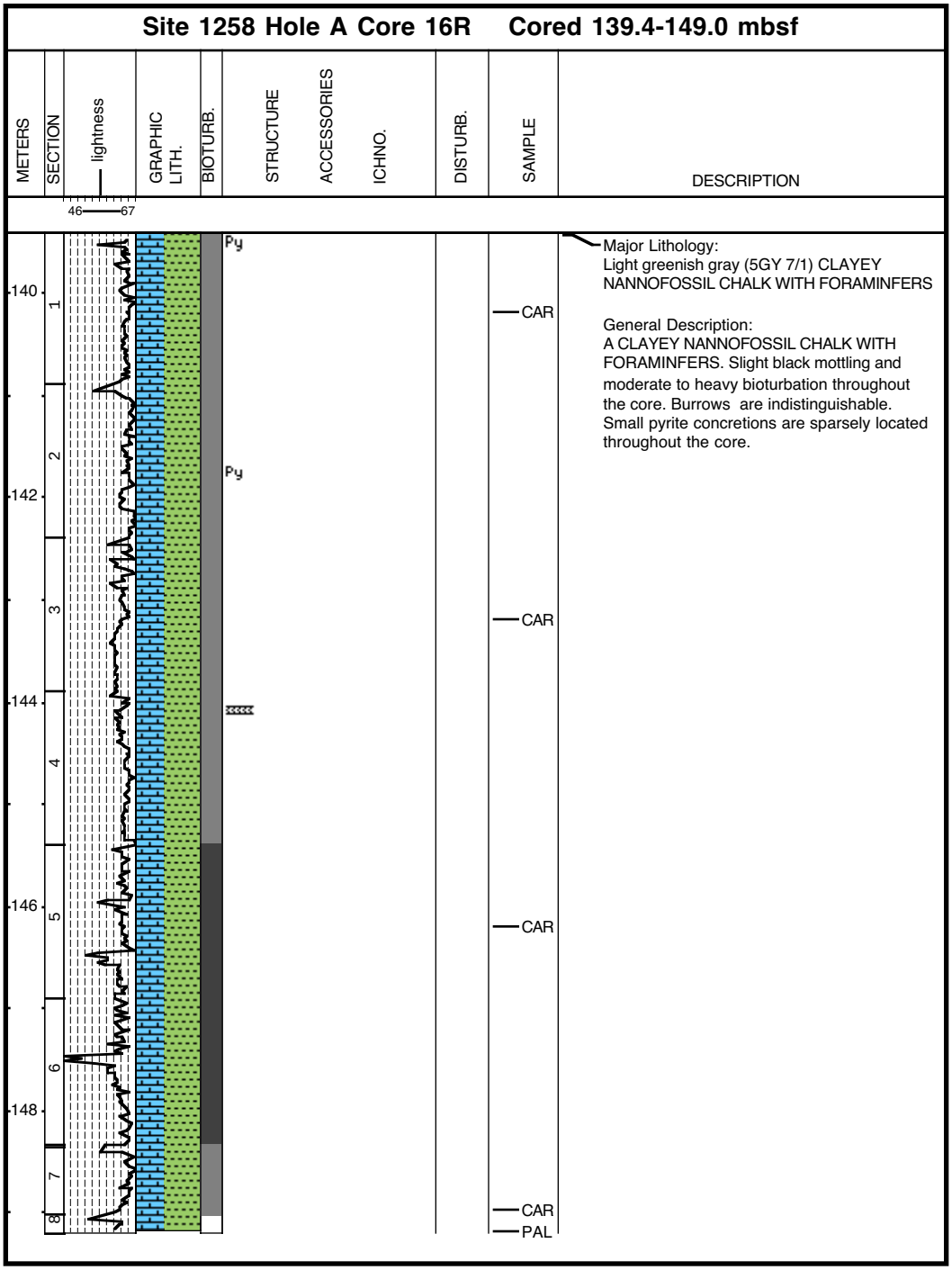
Core Photo


Site 1258 Hole A Core 14R Cored 120.1-129.7 mbsf
METERS
SECTION
Lightness
37
66
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
122
124
1
2
3
4
5
Py
Py
CAR
CAR
PAL
Major Lithology:
Greenish gray (5G 6/1) to light greenish gray (5G 7/1) NANNOFOSSIL CHALK WITH FORAMINIFERS
General Description:
The core displays mild fracturing. Mottling and bioturbation are slight throughout entire core. The burrows are black and mostly horizontal. Biscuiting is evident in Sections 1 and 2.

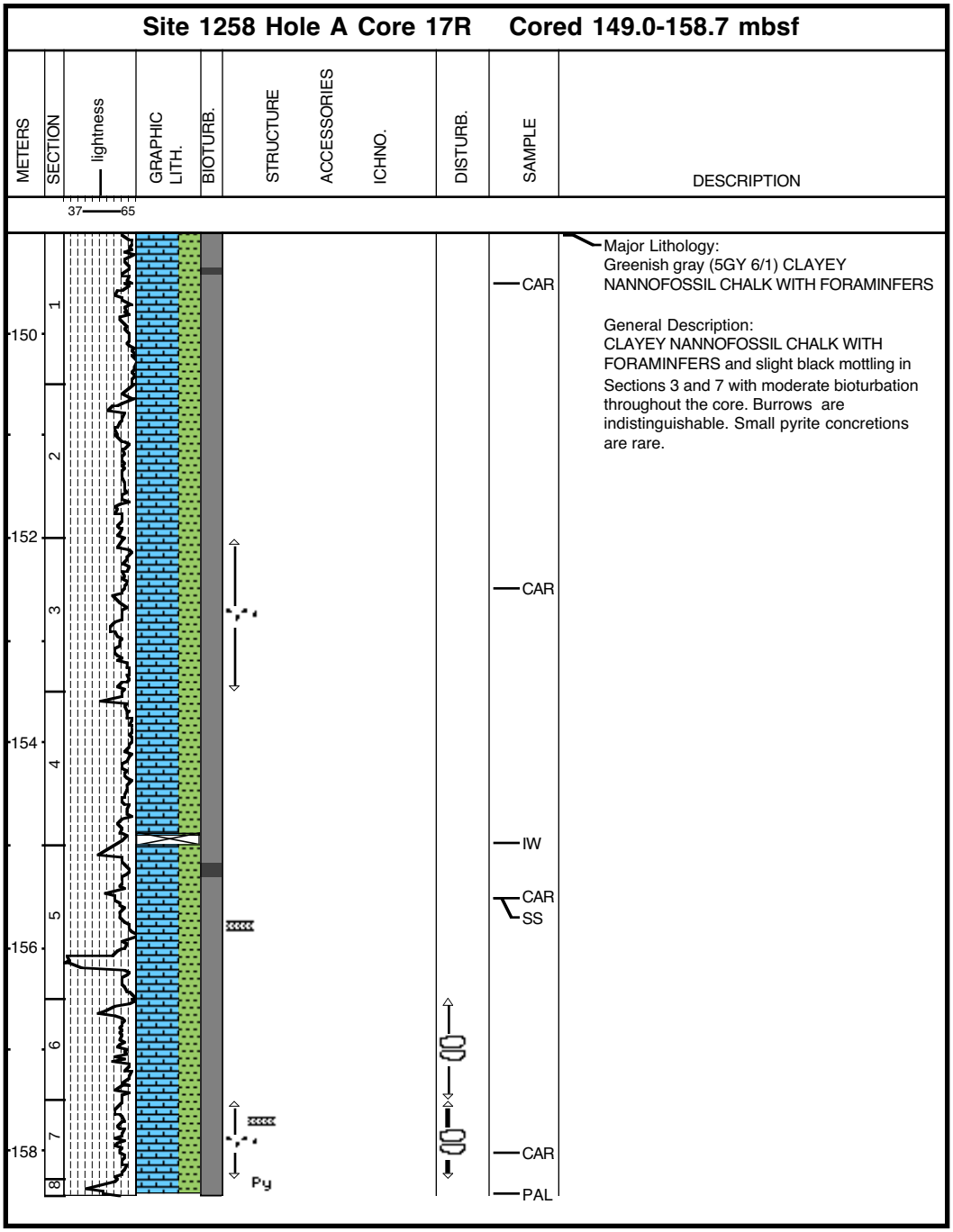
Core Photo


Site 1258 Hole A Core 15R Cored 129.7-139.4 mbsf
METERS
SECTION
Lightness
51
67
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
130
132
134
1
2
3
4
CAR
SS
SS
CAR
SS
PAL
Major Lithology:
Light greenish gray (5G 7/1) CLAYEY NANNOFOSSIL CHALK WITH FORAMINIFERS
Minor Lithology:
Section 2, 138 cm DIATOM NANNOFOSSIL CHALK
General Description:
A CLAYEY NANNOFOSSIL CHALK WITH FORAMINIFERS that displays mild fracturing at various intervals. Slight black mottling and moderate bioturbation are present throughout the core.

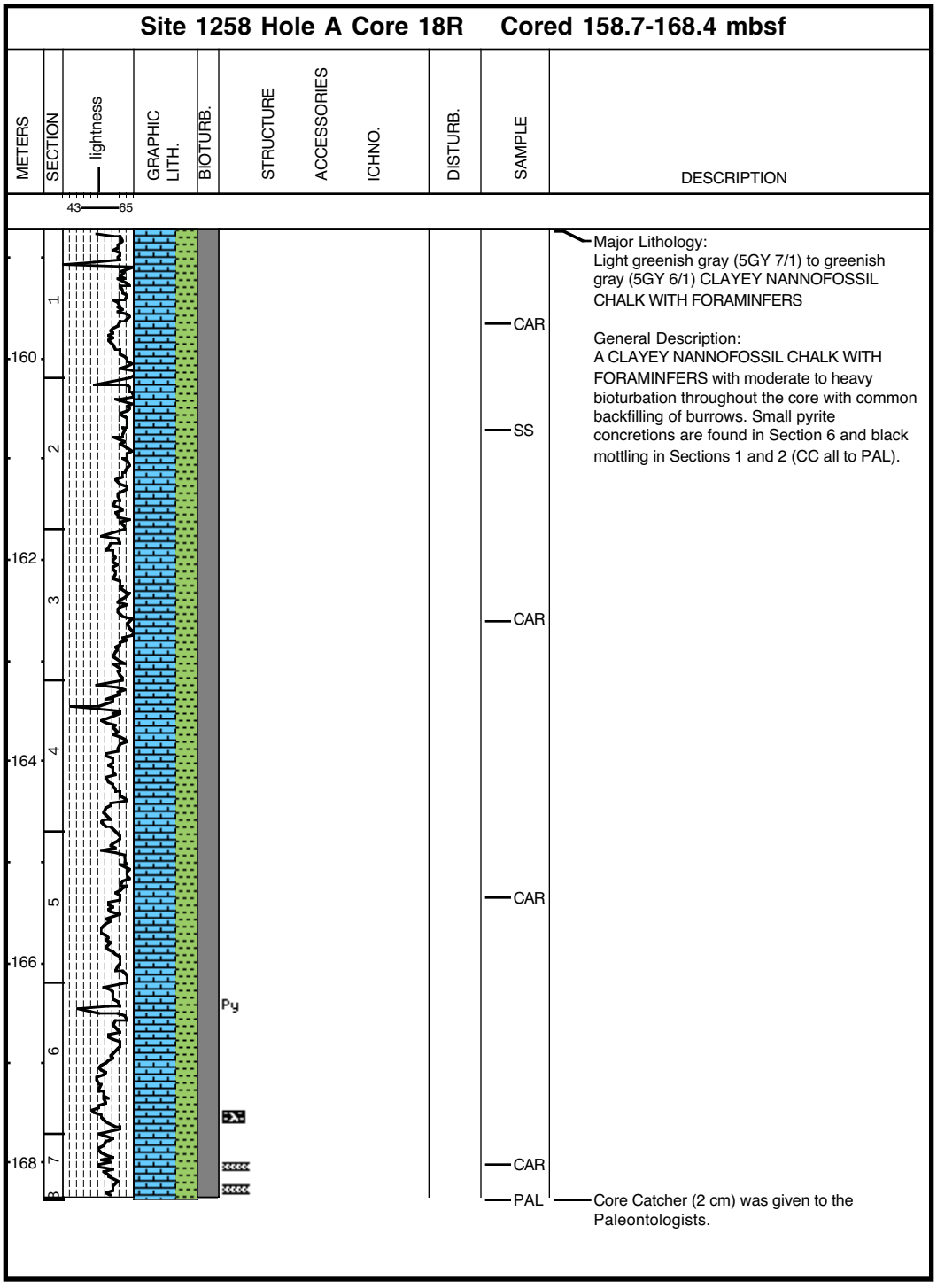
Core Photo


Site 1258 Hole A Core 16R Cored 139.4-149.0 mbsf
METERS
SECTION
lightness
46
67
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
140
142
144
146
148
1
2
3
4
5
6
7
8
Py
Py
CAR
CAR
CAR
CAR
PAL
Major Lithology:
Light greenish gray (5GY 7/1) CLAYEY NANNOFOSSIL CHALK WITH FORAMINFERS
General Description:
A CLAYEY NANNOFOSSIL CHALK WITH FORAMINFERS. Slight black mottling and moderate to heavy bioturbation throughout the core. Burrows are indistinguishable. Small pyrite concretions are sparsely located throughout the core.

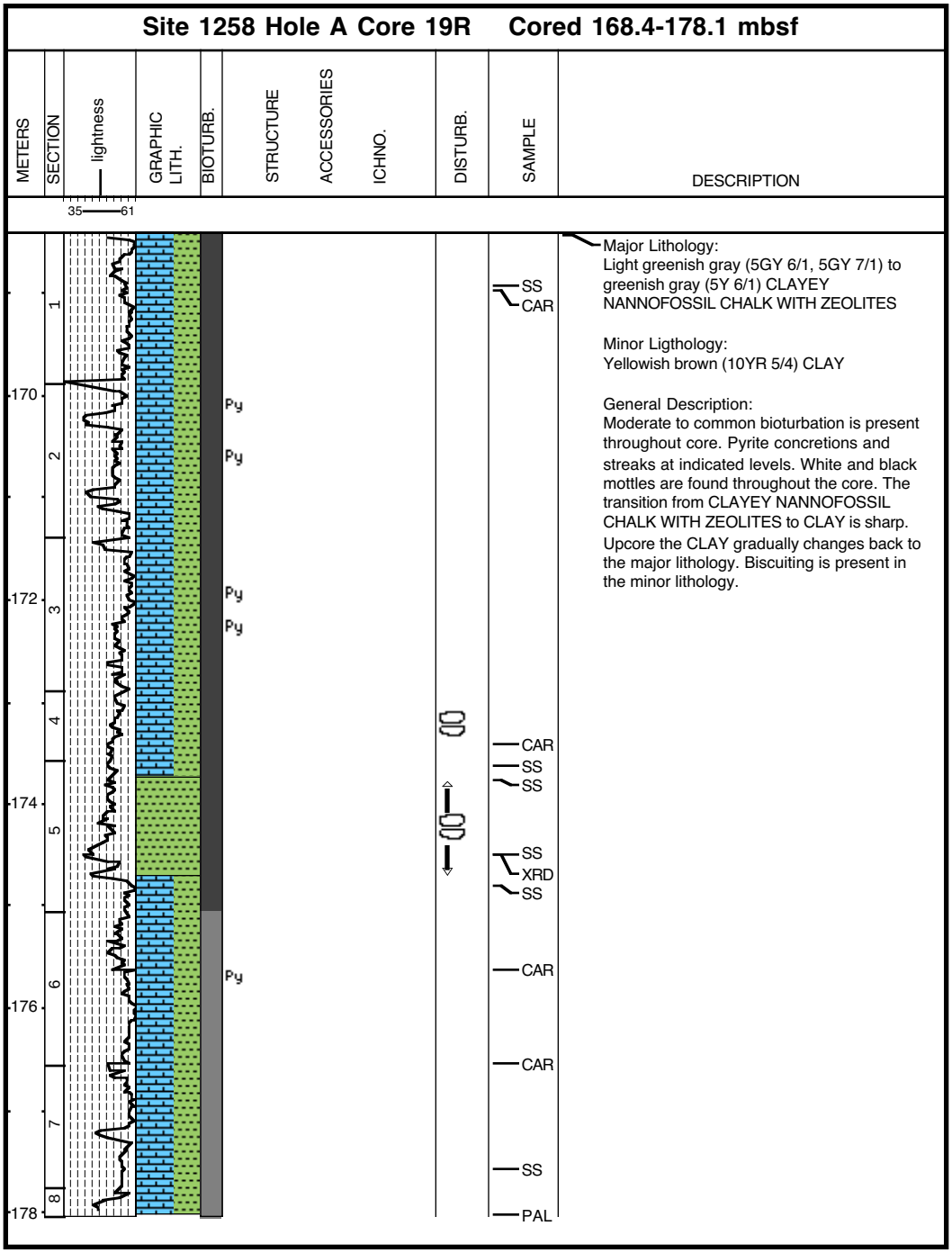
Core Photo


Site 1258 Hole A Core 17R Cored 149.0-158.7 mbsf
METERS
SECTION
lightness
37
65
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
150
152
154
156
158
1
2
3
4
5
6
7
8
Py
CAR
CAR
IW
CAR
SS
CAR
PAL
Major Lithology:
Greenish gray (5GY 6/1) CLAYEY NANNOFOSSIL CHALK WITH FORAMINFERS
General Description:
CLAYEY NANNOFOSSIL CHALK WITH FORAMINFERS and slight black mottling in Sections 3 and 7 with moderate bioturbation throughout the core. Burrows are indistinguishable. Small pyrite concretions are rare.

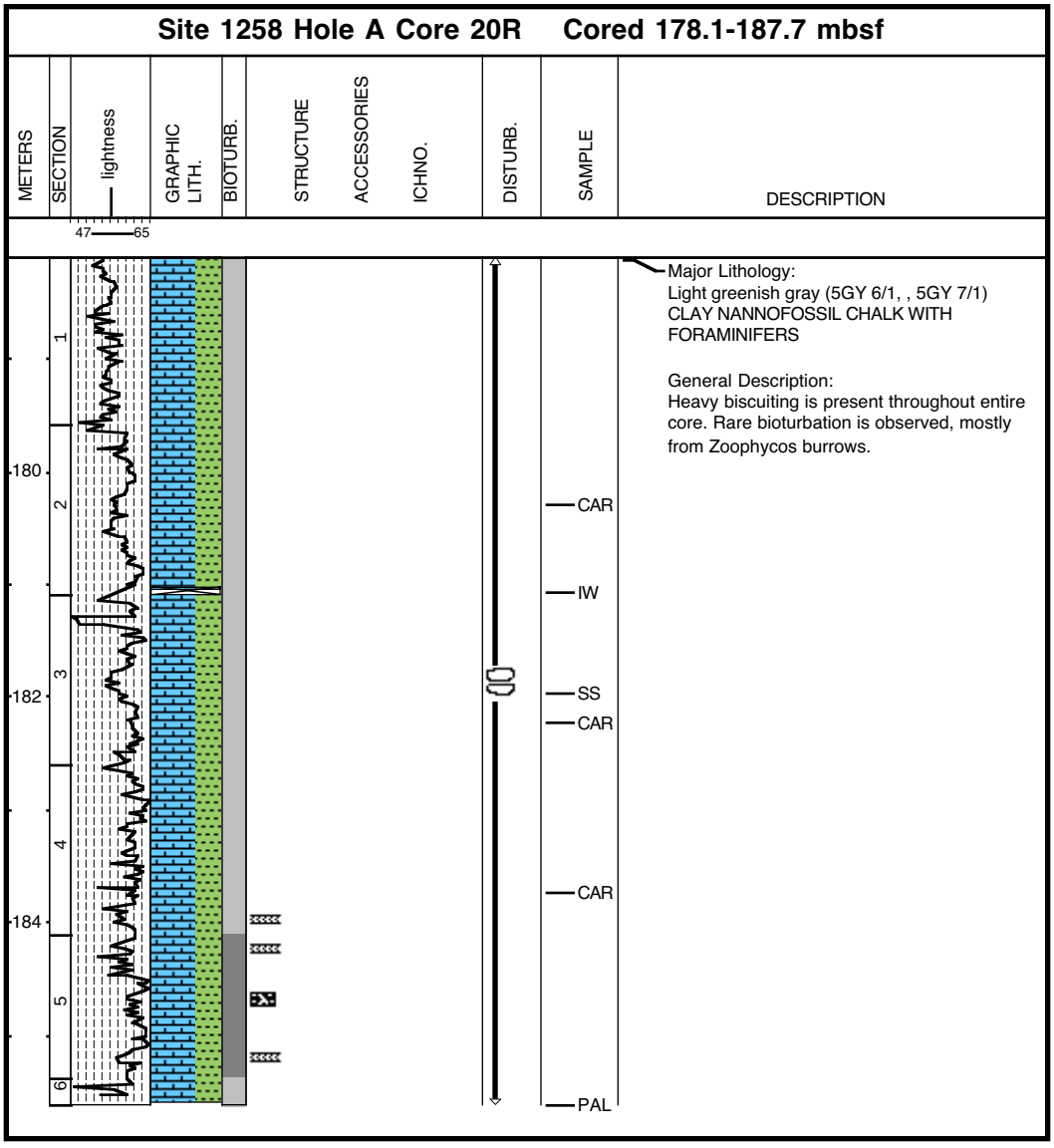
Core Photo


Site 1258 Hole A Core 18R Cored 158.7-168.4 mbsf
METERS
SECTION
lightness
43
65
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
160
162
164
166
168
1
2
3
4
5
6
7
CC
Py
CAR
SS
CAR
CAR
CAR
PAL
Major Lithology:
Light greenish gray (5GY 7/1) to greenish gray (5GY 6/1) CLAYEY NANNOFOSSIL CHALK WITH FORAMINFERS
General Description:
A CLAYEY NANNOFOSSIL CHALK WITH FORAMINFERS with moderate to heavy bioturbation throughout the core with common backfilling of burrows. Small pyrite concretions are found in Section 6 and black mottling in Sections 1 and 2 (CC all to PAL).
Core Catcher (2 cm) was given to the Paleontologists.

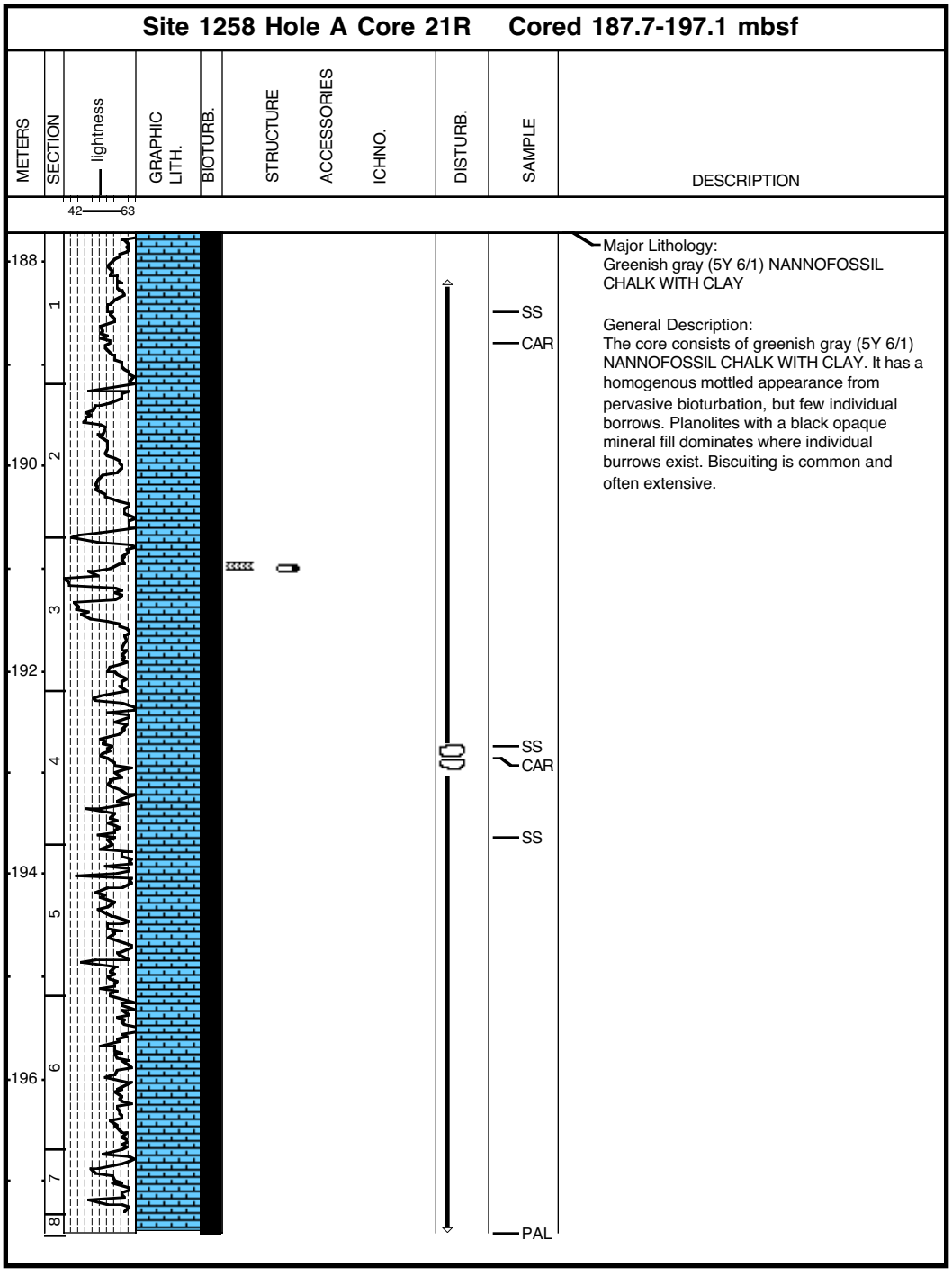
Core Photo


Site 1258 Hole A Core 19R Cored 168.4-178.1 mbsf
METERS
SECTION
lightness
35
61
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
170
172
174
176
178
1
2
3
4
5
6
7
8
Py
Py
Py
Py
Py
SS
CAR
CAR
SS
SS
SS
XRD
SS
CAR
CAR
SS
PAL
Major Lithology:
Light greenish gray (5GY 6/1, 5GY 7/1) to greenish gray (5Y 6/1) CLAYEY NANNOFOSSIL CHALK WITH ZEOLITES
Minor Ligthology:
Yellowish brown (10YR 5/4) CLAY
General Description:
Moderate to common bioturbation is present throughout core. Pyrite concretions and streaks at indicated levels. White and black mottles are found throughout the core. The transition from CLAYEY NANNOFOSSIL CHALK WITH ZEOLITES to CLAY is sharp. Upcore the CLAY gradually changes back to the major lithology. Biscuiting is present in the minor lithology.

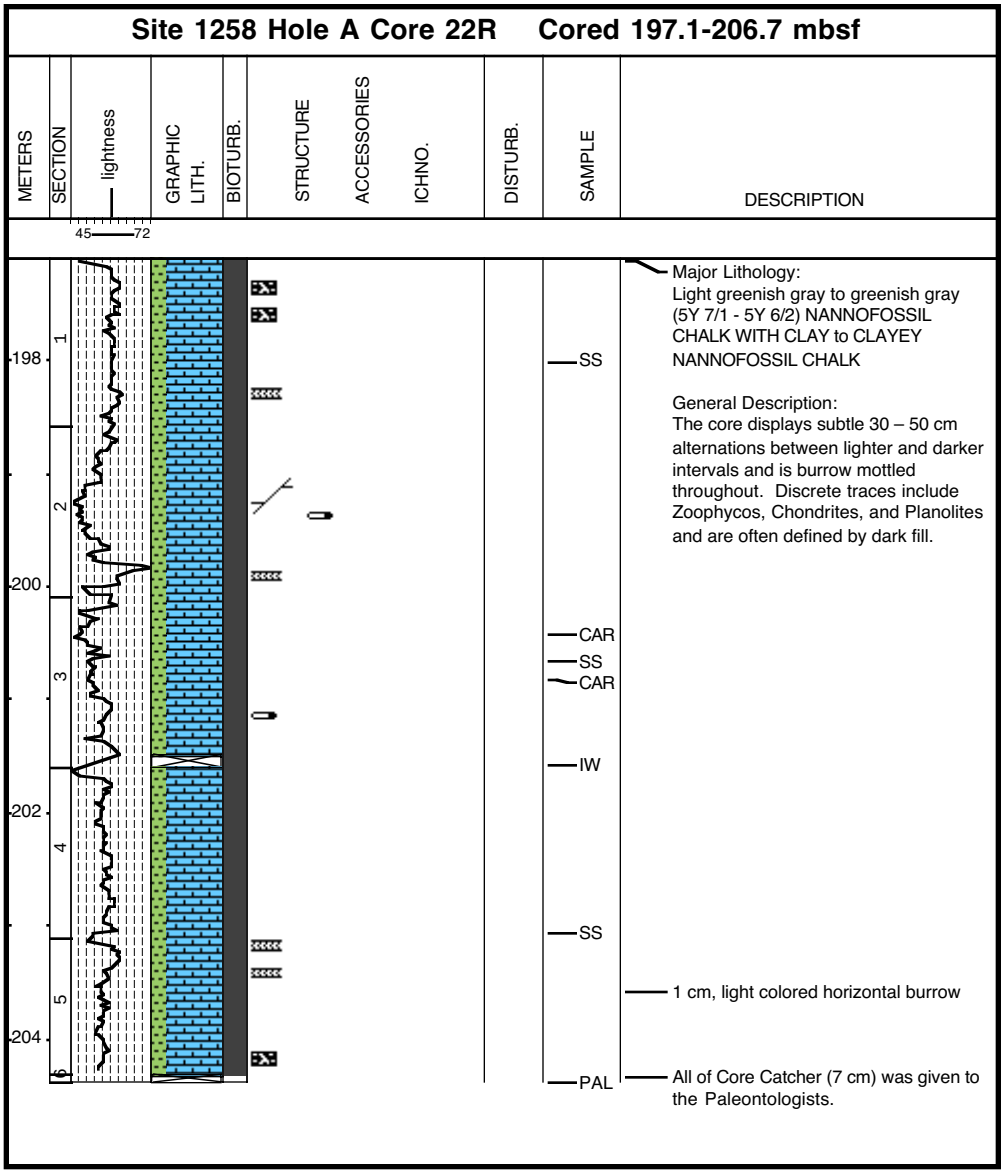
Core Photo


Site 1258 Hole A Core 20R Cored 178.1-187.7 mbsf
METERS
SECTION
lightness
47
65
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
180
182
184
1
2
3
4
5
6
CAR
IW
SS
CAR
CAR
PAL
Major Lithology:
Light greenish gray (5GY 6/1, , 5GY 7/1)
CLAY NANNOFOSSIL CHALK WITH
FORAMINIFERS
General Description:
Heavy biscuiting is present throughout entire
core. Rare bioturbation is observed, mostly
from Zoophycos burrows.

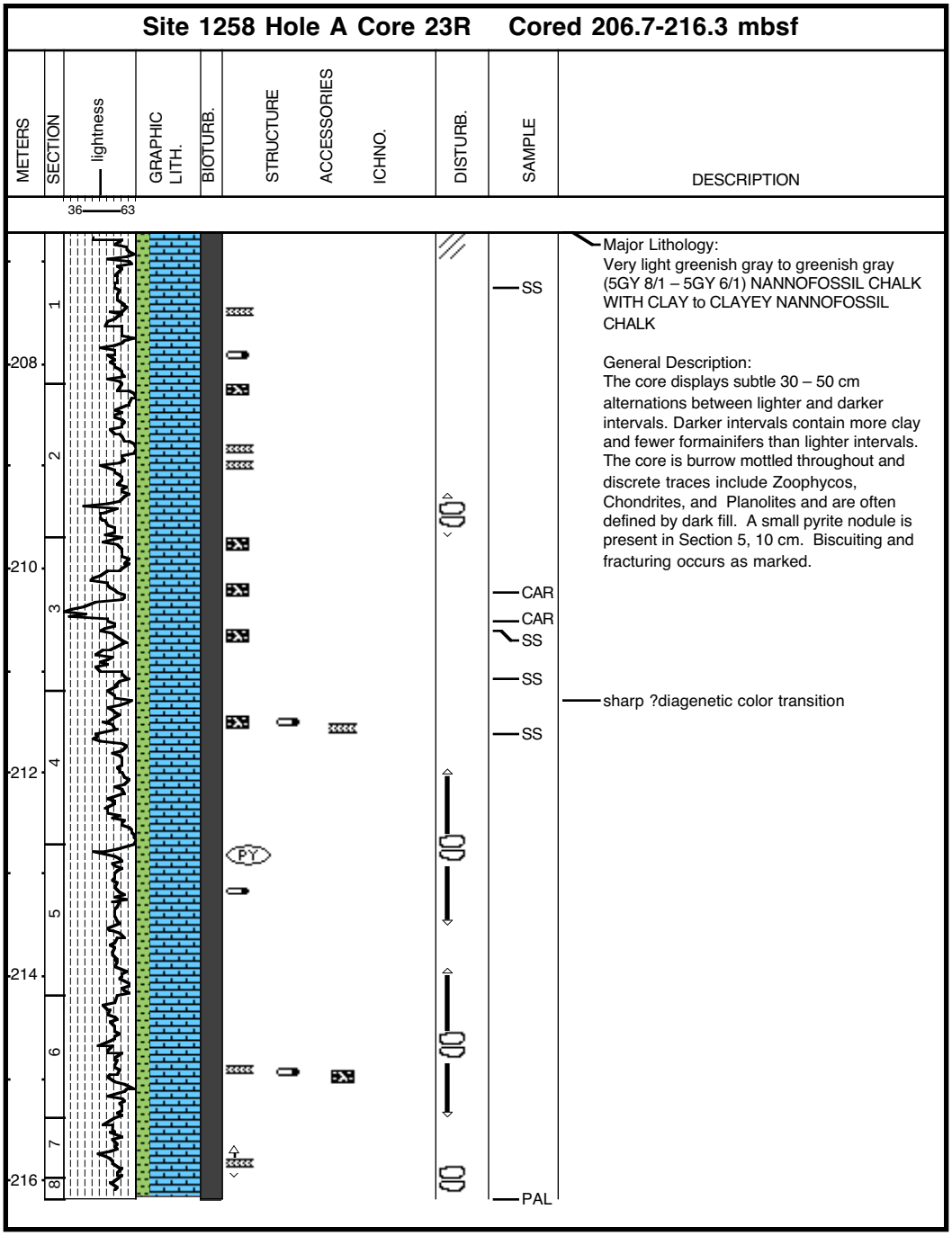
Core Photo


Site 1258 Hole A Core 21R Cored 187.7-197.1 mbsf
METERS
SECTION
lightness
42
63
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
188
190
192
194
196
1
2
3
4
5
6
7
8
SS
CAR
SS
CAR
SS
PAL
Major Lithology:
Greenish gray (5Y 6/1) NANNOFOSSIL CHALK WITH CLAY
General Description:
The core consists of greenish gray (5Y 6/1) NANNOFOSSIL CHALK WITH CLAY. It has a homogenous mottled appearance from pervasive bioturbation, but few individual borrows. Planolites with a black opaque mineral fill dominates where individual burrows exist. Biscuiting is common and often extensive.

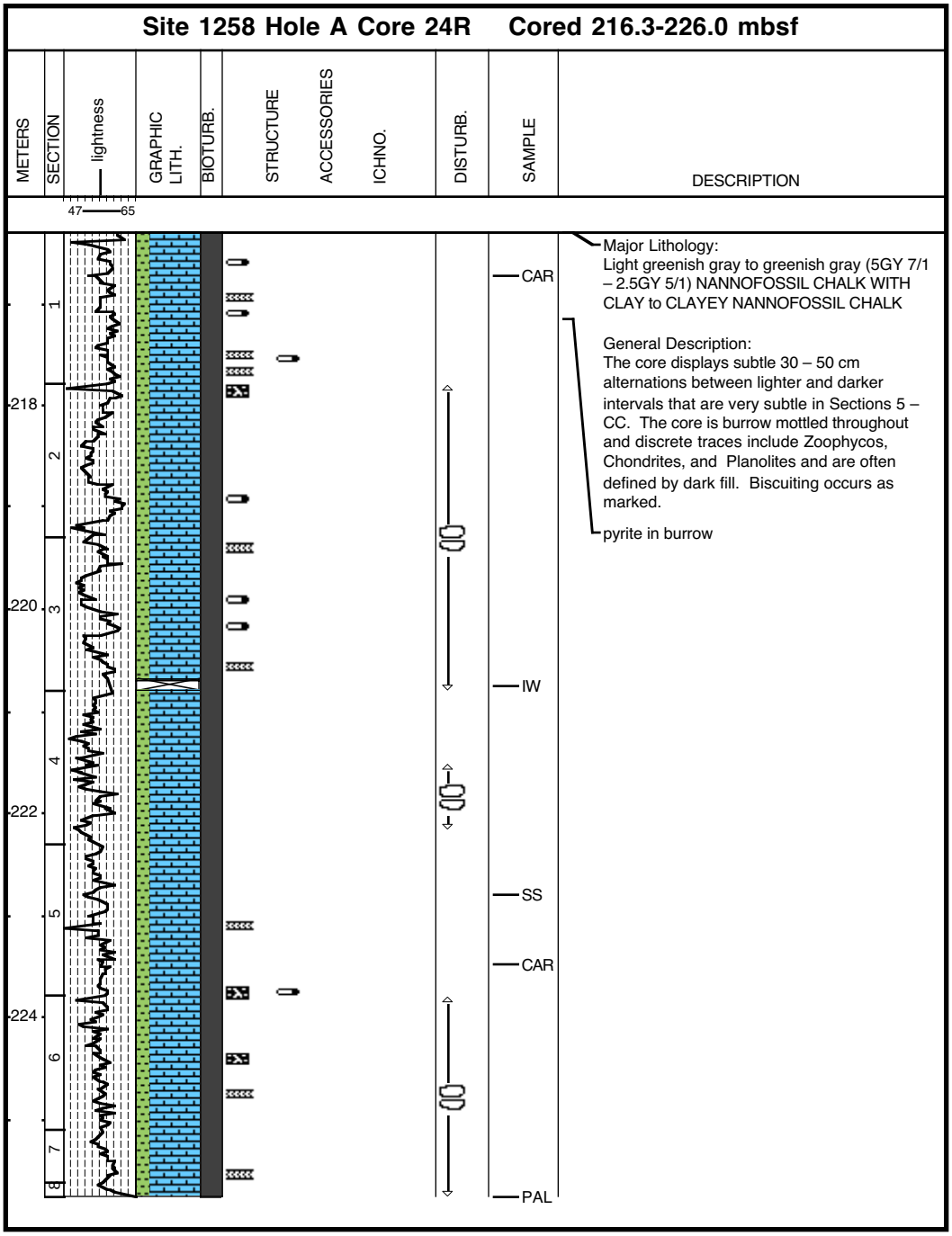
Core Photo


Site 1258 Hole A Core 22R Cored 197.1-206.7 mbsf
METERS
SECTION
lightness
45
72
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
198
200
202
204
1
2
3
4
5
6
SS
CAR
SS
CAR
IW
SS
PAL
Major Lithology:
Light greenish gray to greenish gray (5Y 7/1 - 5Y 6/2) NANNOFOSSIL CHALK WITH CLAY to CLAYEY NANNOFOSSIL CHALK
General Description:
The core displays subtle 30 – 50 cm alternations between lighter and darker intervals and is burrow mottled throughout. Discrete traces include Zoophycos, Chondrites, and Planolites and are often defined by dark fill.
1 cm, light colored horizontal burrow
All of Core Catcher (7 cm) was given to the Paleontologists.

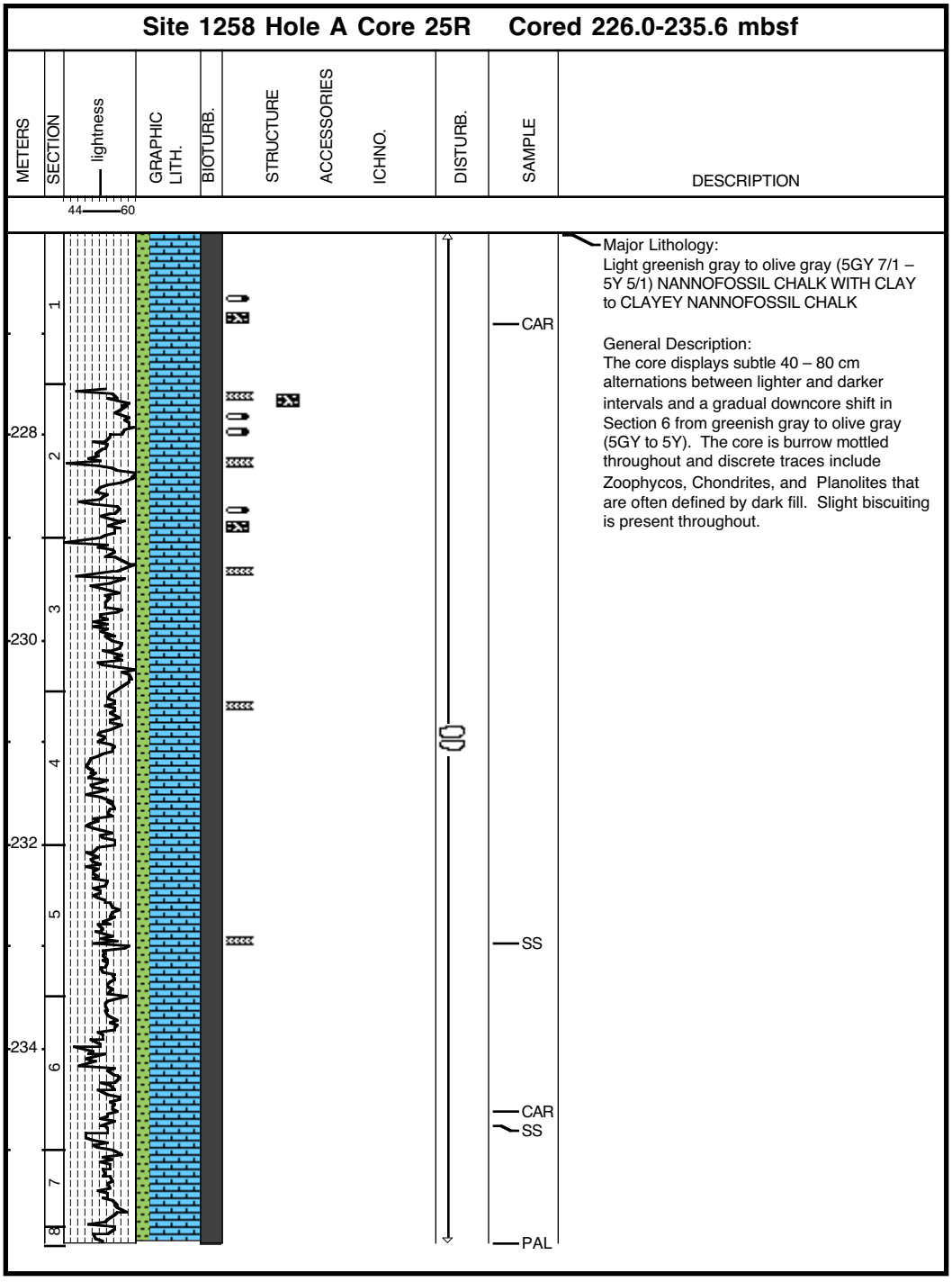
Core Photo


Site 1258 Hole A Core 23R Cored 206.7-216.3 mbsf
METERS
SECTION
lightness
36
63
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
208
210
212
214
216
1
2
3
4
5
6
7
8
SS
CAR
CAR
SS
SS
SS
PAL
PY
Major Lithology:
Very light greenish gray to greenish gray (5GY 8/1 – 5GY 6/1) NANNOFOSSIL CHALK WITH CLAY to CLAYEY NANNOFOSSIL CHALK
General Description:
The core displays subtle 30 – 50 cm alternations between lighter and darker intervals. Darker intervals contain more clay and fewer formainifers than lighter intervals. The core is burrow mottled throughout and discrete traces include Zoophycos, Chondrites, and Planolites and are often defined by dark fill. A small pyrite nodule is present in Section 5, 10 cm. Biscuiting and fracturing occurs as marked.
sharp ?diagenetic color transition

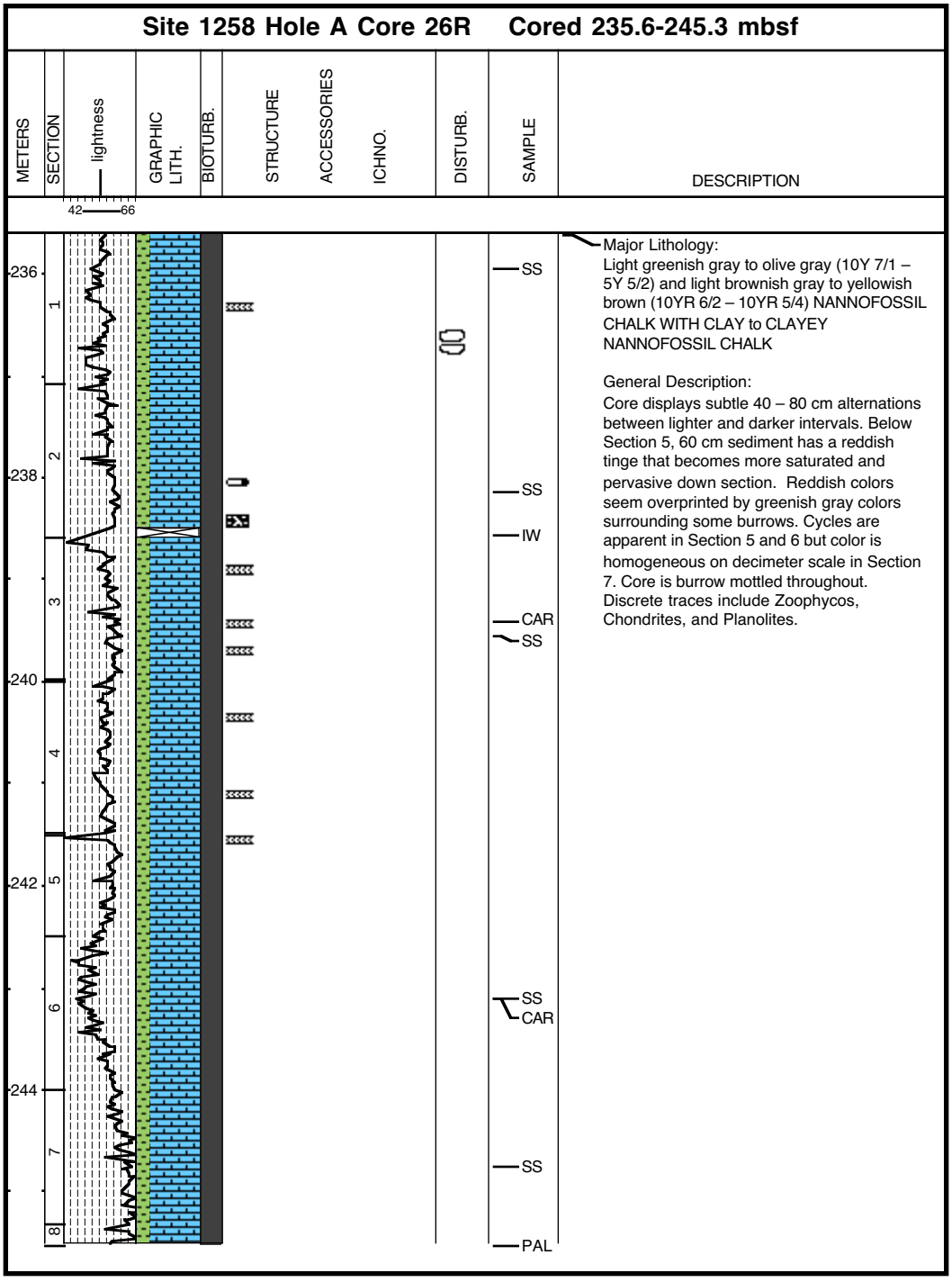
Core Photo


Site 1258 Hole A Core 24R Cored 216.3-226.0 mbsf
METERS
SECTION
lightness
47
65
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
218
220
222
224
1
2
3
4
5
6
7
CC
CAR
IW
SS
CAR
PAL
Major Lithology:
Light greenish gray to greenish gray (5GY 7/1 – 2.5GY 5/1) NANNOFOSSIL CHALK WITH CLAY to CLAYEY NANNOFOSSIL CHALK
General Description:
The core displays subtle 30 – 50 cm alternations between lighter and darker intervals that are very subtle in Sections 5 – CC. The core is burrow mottled throughout and discrete traces include Zoophycos, Chondrites, and Planolites and are often defined by dark fill. Biscuiting occurs as marked.
pyrite in burrow

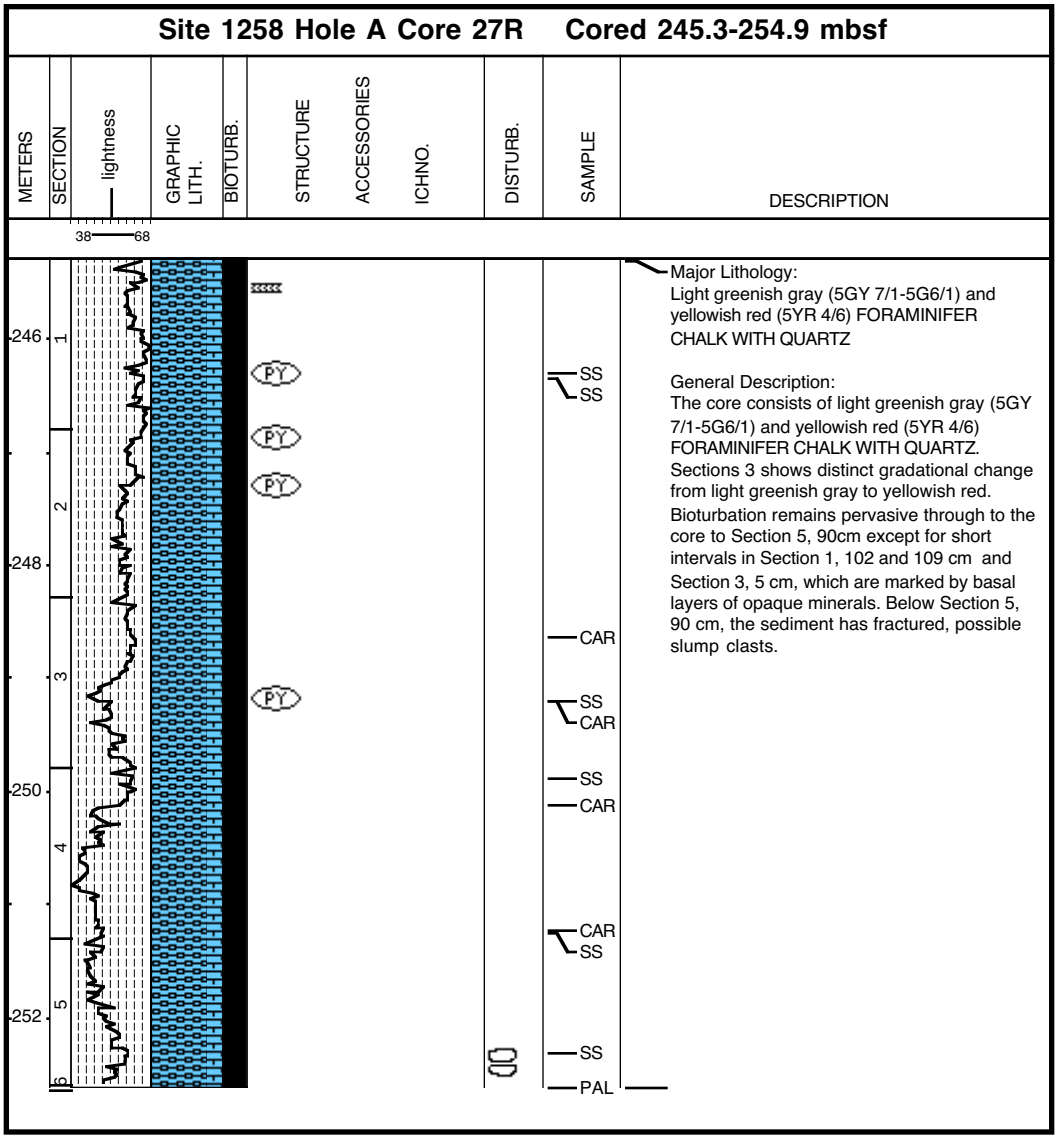
Core Photo


Site 1258 Hole A Core 25R Cored 226.0-235.6 mbsf
METERS
SECTION
lightness
44
60
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
228
230
232
234
1
2
3
4
5
6
7
8
CAR
SS
CAR
SS
PAL
Major Lithology:
Light greenish gray to olive gray (5GY 7/1 – 5Y 5/1) NANNOFOSSIL CHALK WITH CLAY to CLAYEY NANNOFOSSIL CHALK
General Description:
The core displays subtle 40 – 80 cm alternations between lighter and darker intervals and a gradual downcore shift in Section 6 from greenish gray to olive gray (5GY to 5Y). The core is burrow mottled throughout and discrete traces include Zoophycos, Chondrites, and Planolites that are often defined by dark fill. Slight biscuiting is present throughout.

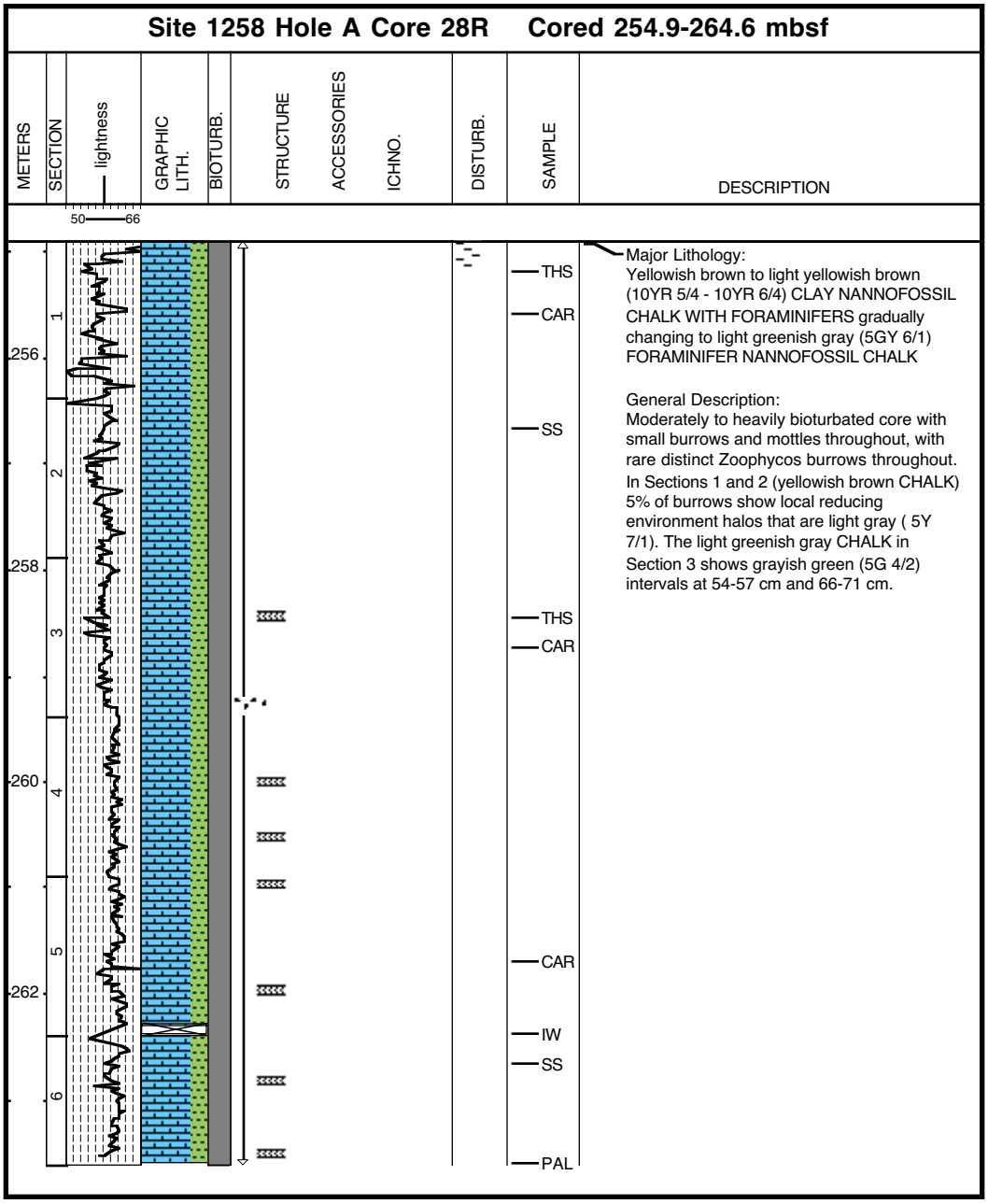
Core Photo


Site 1258 Hole A Core 26R Cored 235.6-245.3 mbsf
METERS
SECTION
lightness
42
66
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
236
238
240
242
244
1
2
3
4
5
6
7
8
SS
SS
IW
CAR
SS
SS
CAR
SS
PAL
Major Lithology:
Light greenish gray to olive gray (10Y 7/1 – 5Y 5/2) and light brownish gray to yellowish brown (10YR 6/2 – 10YR 5/4) NANNOFOSSIL CHALK WITH CLAY to CLAYEY NANNOFOSSIL CHALK
General Description:
Core displays subtle 40 – 80 cm alternations between lighter and darker intervals. Below Section 5, 60 cm sediment has a reddish tinge that becomes more saturated and pervasive down section. Reddish colors seem overprinted by greenish gray colors surrounding some burrows. Cycles are apparent in Section 5 and 6 but color is homogeneous on decimeter scale in Section 7. Core is burrow mottled throughout. Discrete traces include Zoophycos, Chondrites, and Planolites.

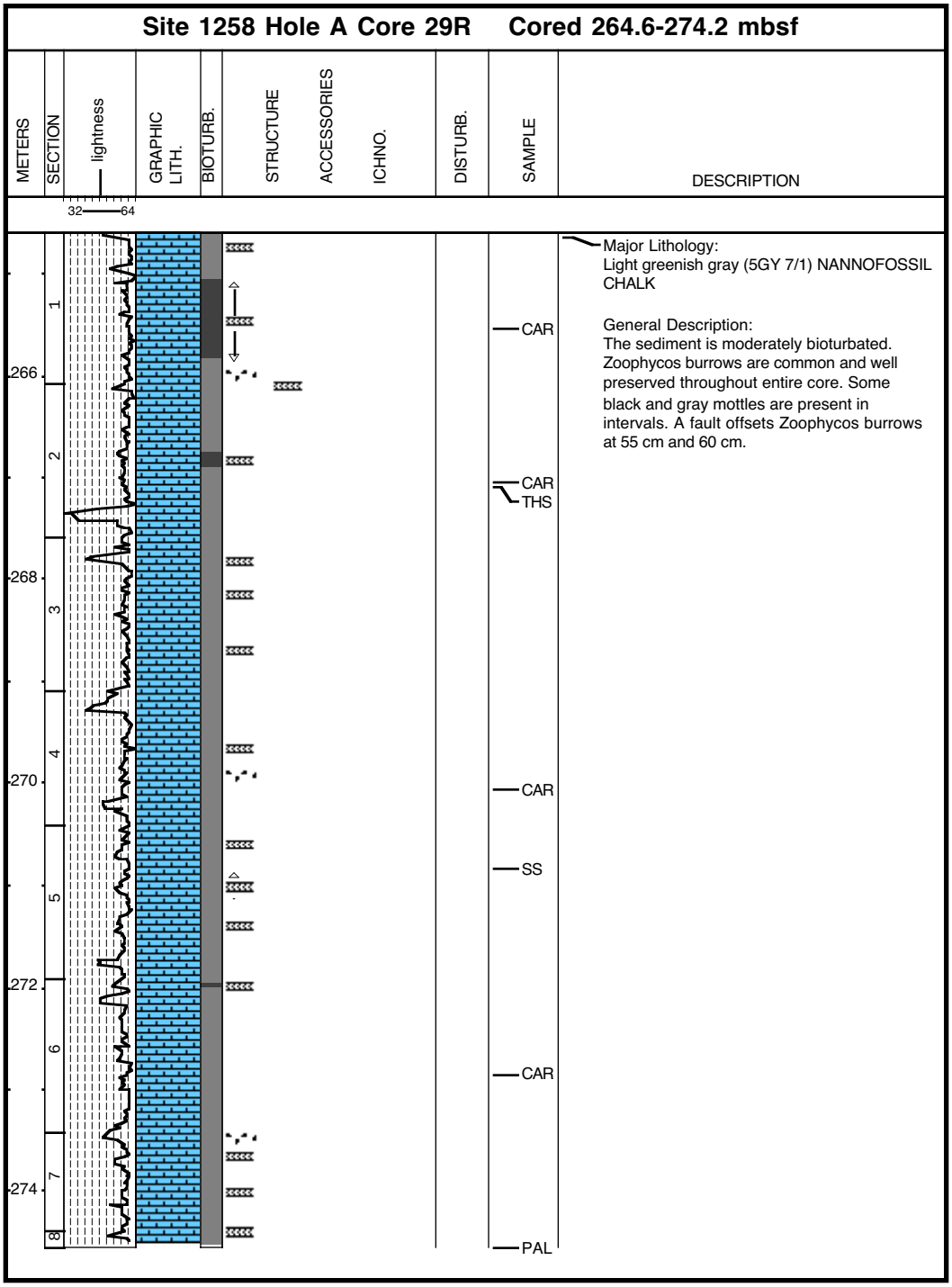
Core Photo


Site 1258 Hole A Core 27R Cored 245.3-254.9 mbsf
METERS
SECTION
lightness
38
68
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
246
248
250
252
1
2
3
4
5
6
PY
PY
PY
PY
SS
SS
CAR
SS
CAR
SS
CAR
CAR
SS
SS
PAL
Major Lithology:
Light greenish gray (5GY 7/1-5G6/1) and yellowish red (5YR 4/6) FORAMINIFER CHALK WITH QUARTZ
General Description:
The core consists of light greenish gray (5GY 7/1-5G6/1) and yellowish red (5YR 4/6) FORAMINIFER CHALK WITH QUARTZ. Sections 3 shows distinct gradational change from light greenish gray to yellowish red. Bioturbation remains pervasive through to the core to Section 5, 90cm except for short intervals in Section 1, 102 and 109 cm and Section 3, 5 cm, which are marked by basal layers of opaque minerals. Below Section 5, 90 cm, the sediment has fractured, possible slump clasts.

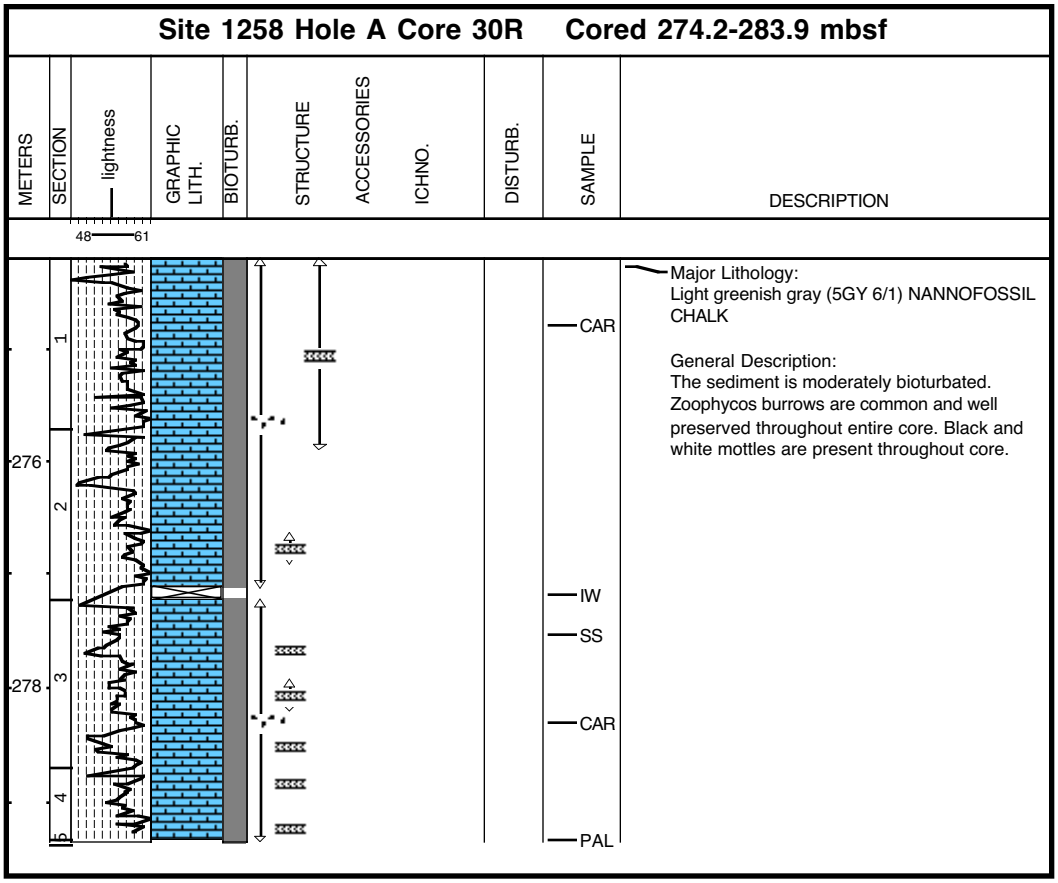
Core Photo


Site 1258 Hole A Core 28R Cored 254.9-264.6 mbsf
METERS
SECTION
lightness
50
66
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
256
258
260
262
1
2
3
4
5
6
THS
CAR
SS
THS
CAR
CAR
IW
SS
PAL
Major Lithology:
Yellowish brown to light yellowish brown (10YR 5/4 - 10YR 6/4) CLAY NANNOFOSSIL CHALK WITH FORAMINIFERS gradually changing to light greenish gray (5GY 6/1) FORAMINIFER NANNOFOSSIL CHALK
General Description:
Moderately to heavily bioturbated core with small burrows and mottles throughout, with rare distinct Zoophycos burrows throughout. In Sections 1 and 2 (yellowish brown CHALK) 5% of burrows show local reducing environment halos that are light gray (5Y 7/1). The light greenish gray CHALK in Section 3 shows grayish green (5G 4/2) intervals at 54-57 cm and 66-71 cm.

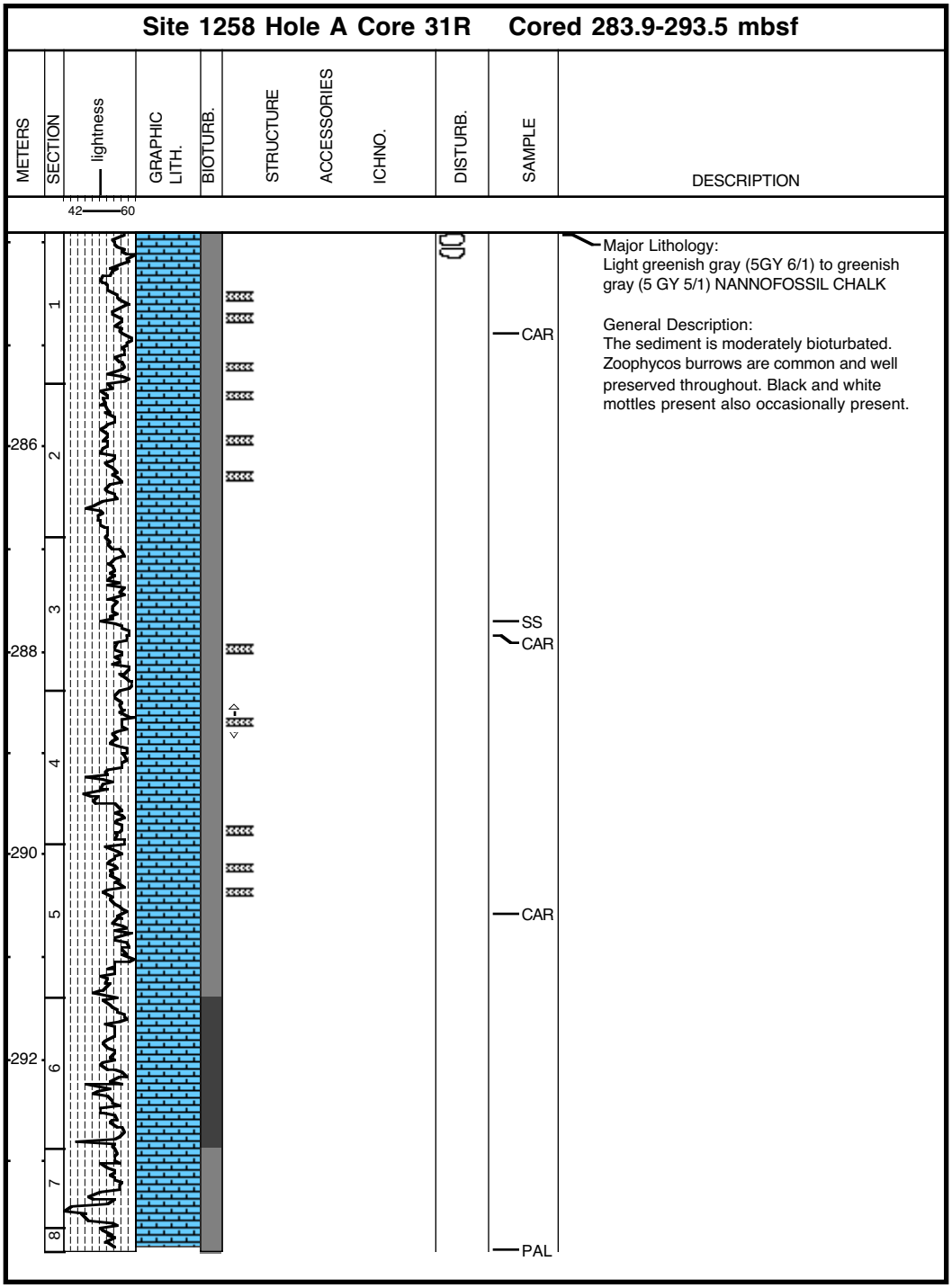
Core Photo


Site 1258 Hole A Core 29R Cored 264.6-274.2 mbsf
METERS
SECTION
lightness
32
64
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
266
268
270
272
274
1
2
3
4
5
6
7
8
CAR
CAR
THS
CAR
SS
CAR
PAL
Major Lithology:
Light greenish gray (5GY 7/1) NANNOFOSSIL CHALK
General Description:
The sediment is moderately bioturbated. Zoophycos burrows are common and well preserved throughout entire core. Some black and gray mottles are present in intervals. A fault offsets Zoophycos burrows at 55 cm and 60 cm.

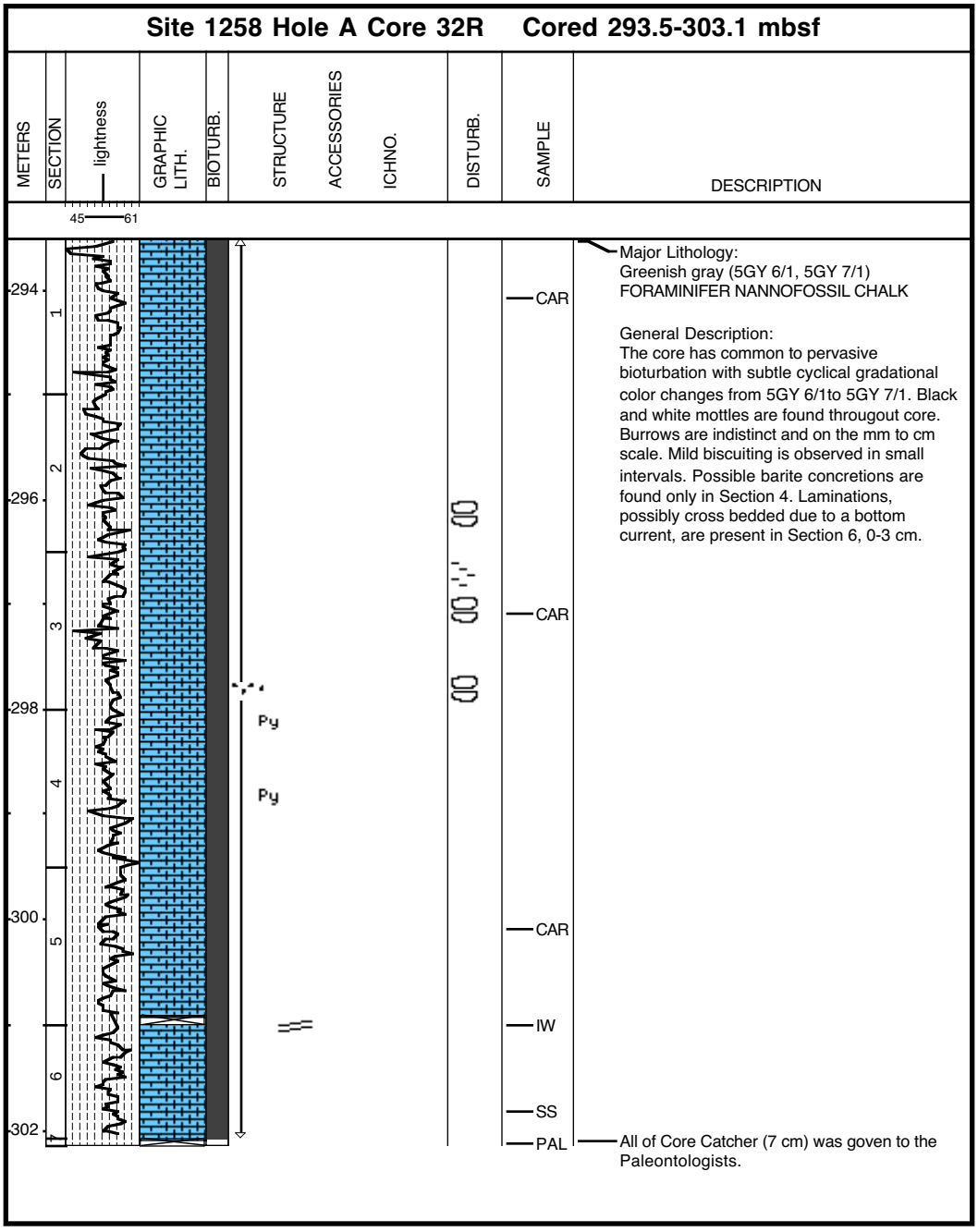
Core Photo


Site 1258 Hole A Core 30R Cored 274.2-283.9 mbsf
METERS
SECTION
lightness
48
61
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
276
278
1
2
3
4
5
CAR
IW
SS
CAR
PAL
Major Lithology:
Light greenish gray (5GY 6/1) NANNOFOSSIL CHALK
General Description:
The sediment is moderately bioturbated. Zoophycos burrows are common and well preserved throughout entire core. Black and white mottles are present throughout core.

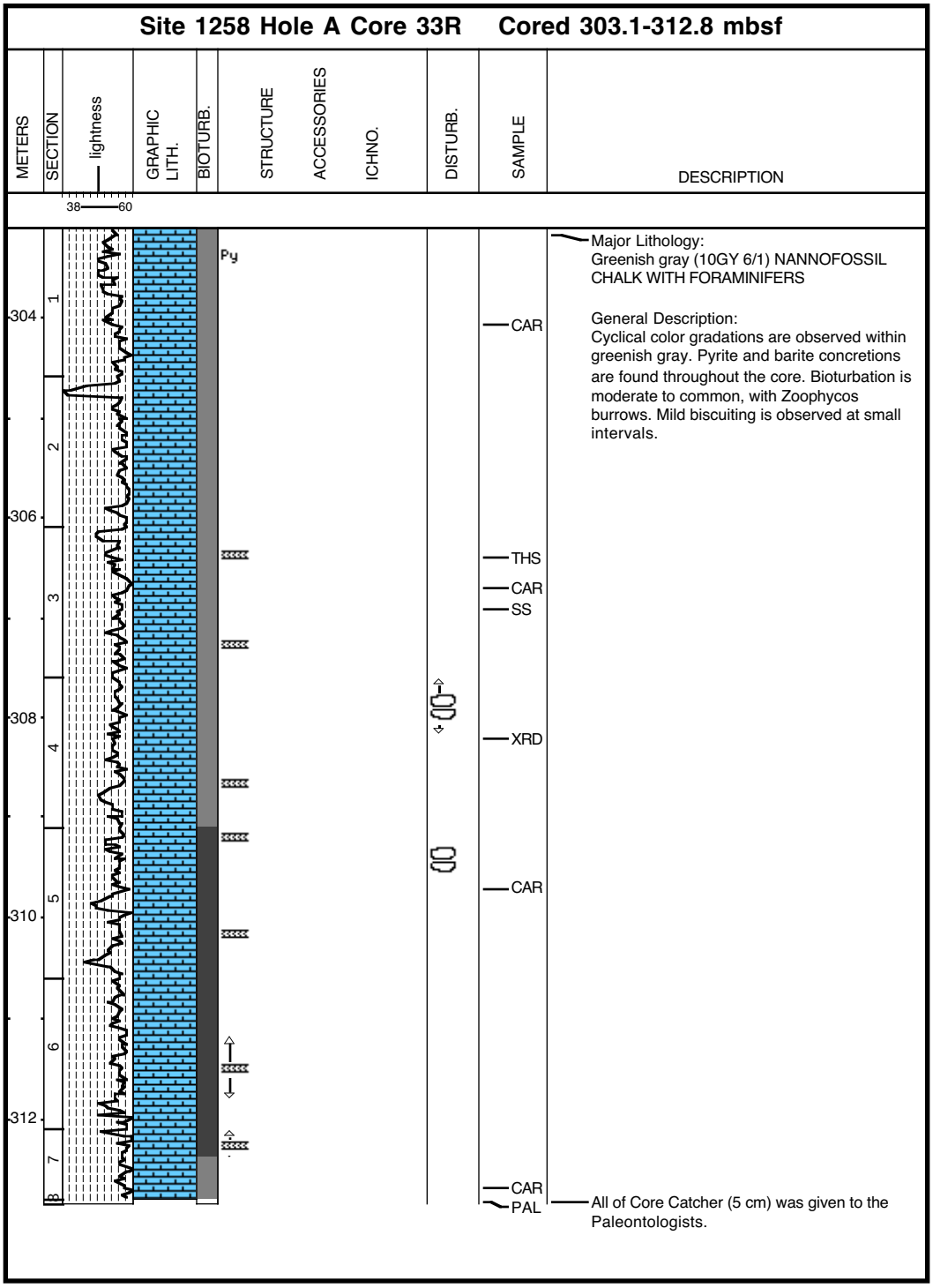
Core Photo


Site 1258 Hole A Core 31R Cored 283.9-293.5 mbsf
METERS
SECTION
lightness
42
60
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
286
288
290
292
1
2
3
4
5
6
7
8
CAR
SS
CAR
CAR
PAL
Major Lithology:
Light greenish gray (5GY 6/1) to greenish gray (5 GY 5/1) NANNOFOSSIL CHALK
General Description:
The sediment is moderately bioturbated. Zoophycos burrows are common and well preserved throughout. Black and white mottles present also occasionally present.

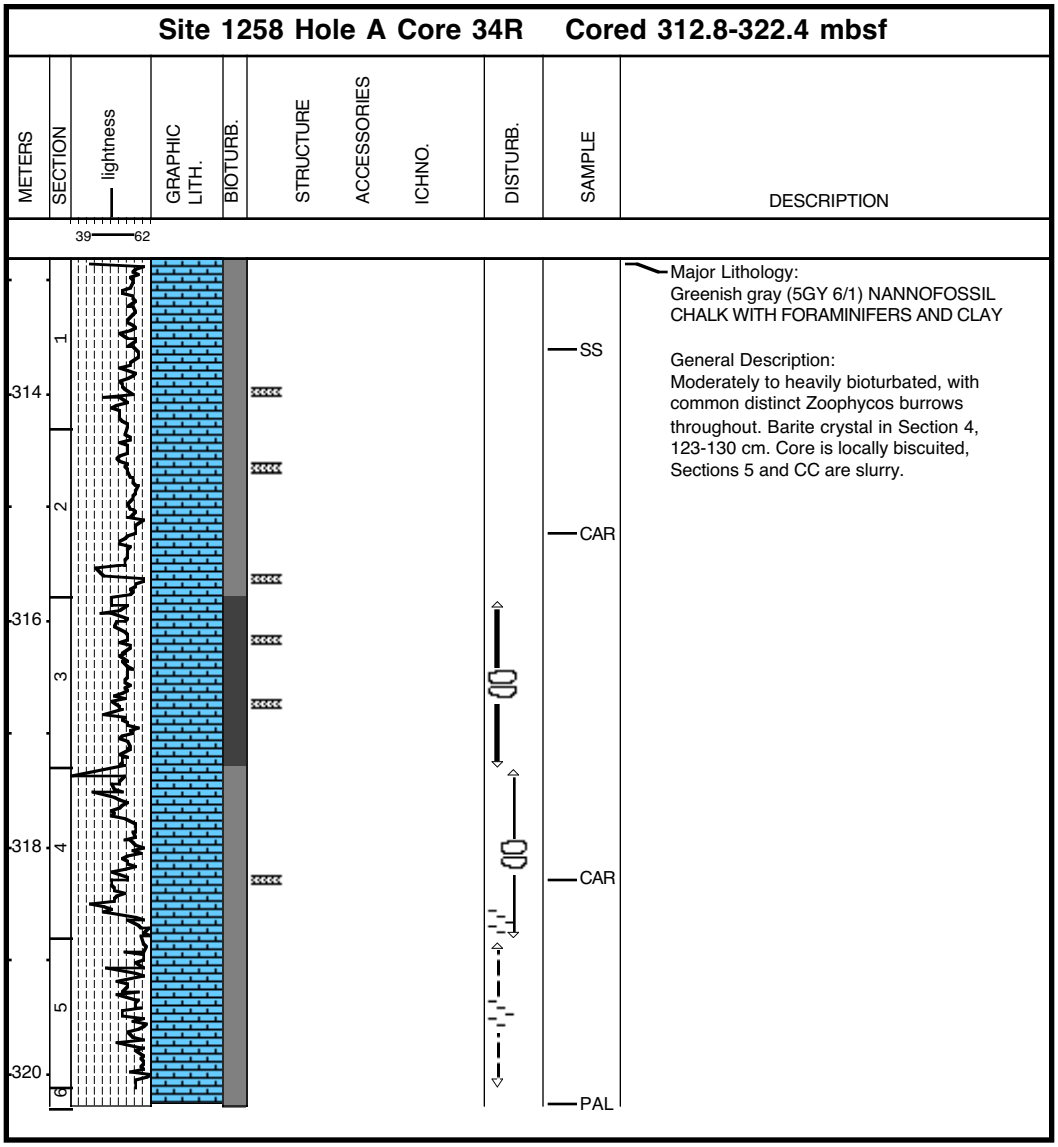
Core Photo


Site 1258 Hole A Core 32R Cored 293.5-303.1 mbsf
METERS
SECTION
lightness
45
61
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
294
296
298
300
302
1
2
3
4
5
6
Py
Py
CAR
CAR
CAR
IW
SS
PAL
Major Lithology:
Greenish gray (5GY 6/1, 5GY 7/1)
FORAMINIFER NANNOFOSSIL CHALK
General Description:
The core has common to pervasive bioturbation with subtle cyclical gradational color changes from 5GY 6/1to 5GY 7/1. Black and white mottles are found througout core. Burrows are indistinct and on the mm to cm scale. Mild biscuiting is observed in small intervals. Possible barite concretions are found only in Section 4. Laminations, possibly cross bedded due to a bottom current, are present in Section 6, 0-3 cm.
All of Core Catcher (7 cm) was goven to the Paleontologists.

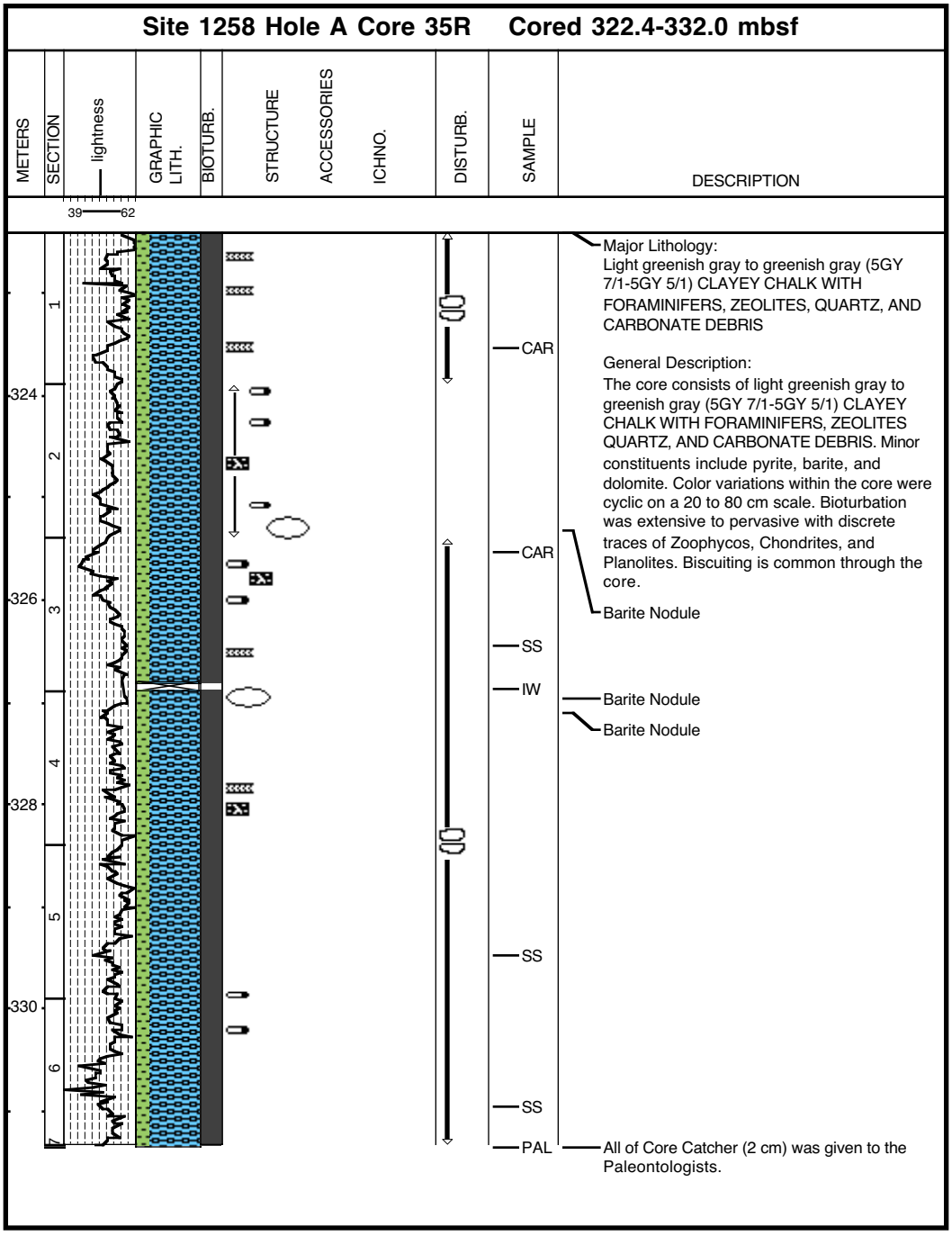
Core Photo


Site 1258 Hole A Core 33R Cored 303.1-312.8 mbsf
METERS
SECTION
lightness
38
60
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
304
306
308
310
312
1
2
3
4
5
6
7
CC
Py
CAR
THS
CAR
SS
XRD
CAR
CAR
PAL
Major Lithology:
Greenish gray (10GY 6/1) NANNOFOSSIL CHALK WITH FORAMINIFERS
General Description:
Cyclical color gradations are observed within greenish gray. Pyrite and barite concretions are found throughout the core. Bioturbation is moderate to common, with Zoophycos burrows. Mild biscuiting is observed at small intervals.
All of Core Catcher (5 cm) was given to the Paleontologists.

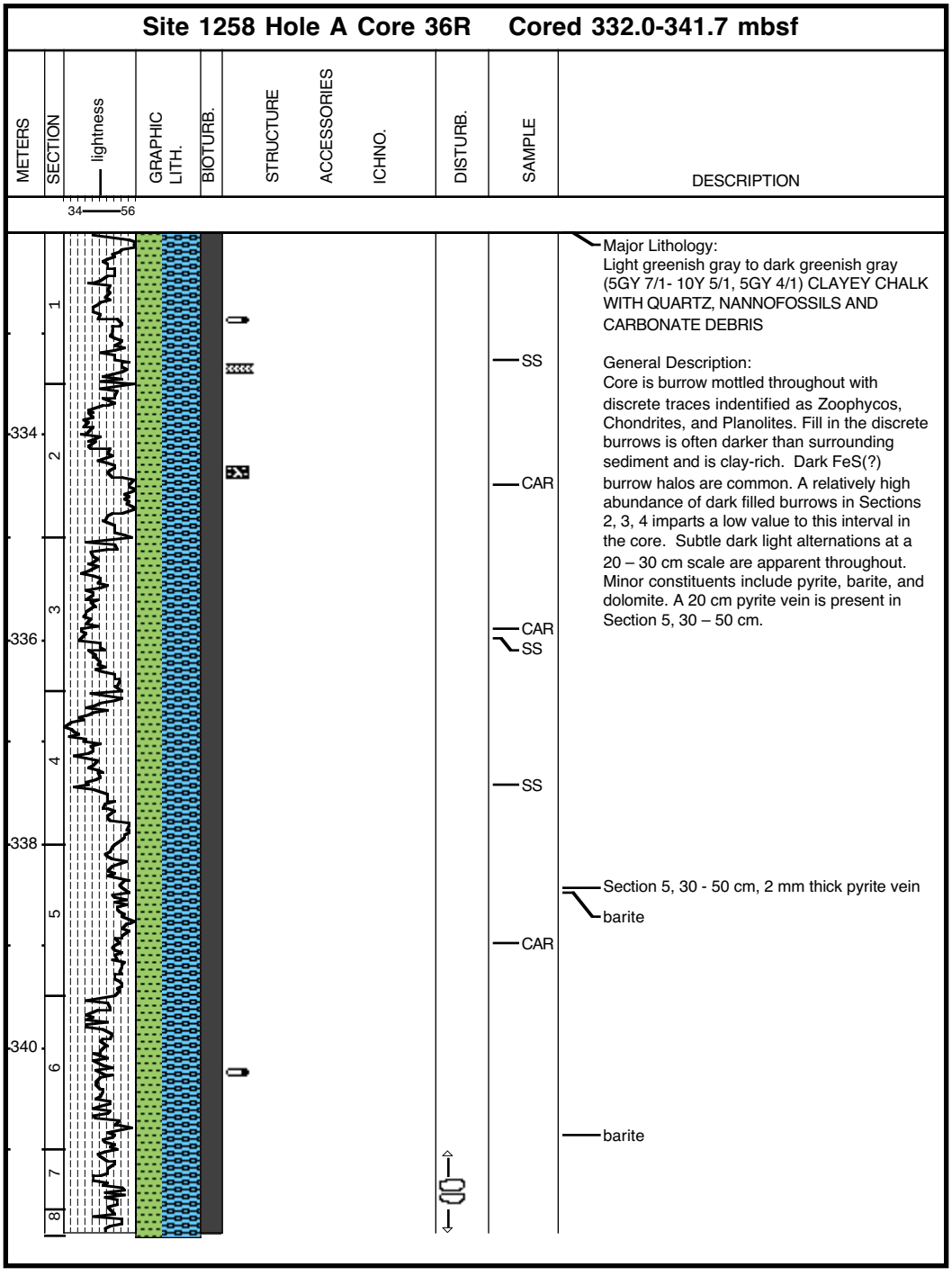
Core Photo


Site 1258 Hole A Core 34R Cored 312.8-322.4 mbsf
METERS
SECTION
lightness
39
62
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
314
316
318
320
1
2
3
4
5
6
SS
CAR
CAR
PAL
Major Lithology:
Greenish gray (5GY 6/1) NANNOFOSSIL CHALK WITH FORAMINIFERS AND CLAY
General Description:
Moderately to heavily bioturbated, with common distinct Zoophycos burrows throughout. Barite crystal in Section 4, 123-130 cm. Core is locally biscuited, Sections 5 and CC are slurry.

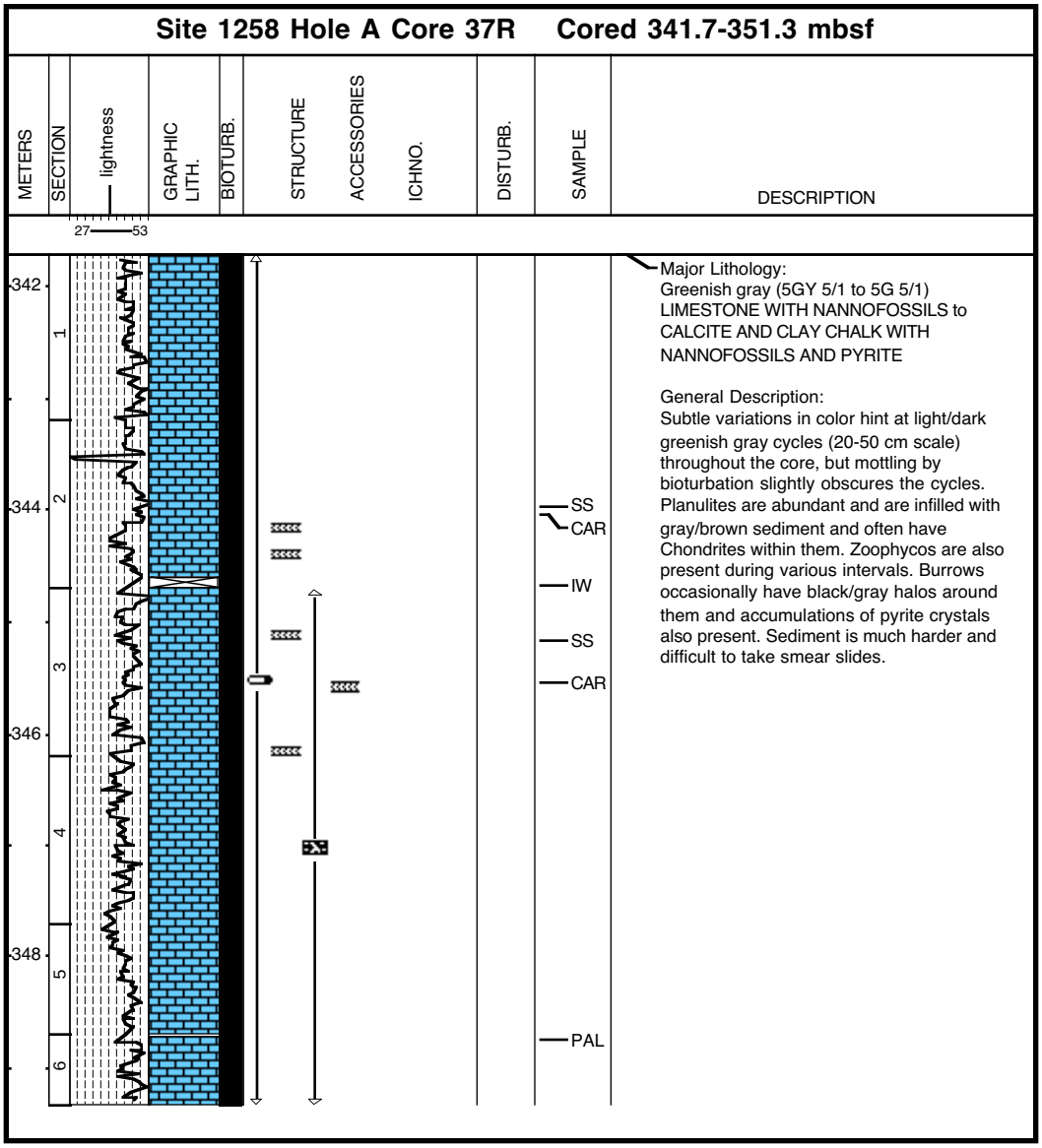
Core Photo


Site 1258 Hole A Core 35R Cored 322.4-332.0 mbsf
METERS
SECTION
lightness
39
62
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
324
326
328
330
1
2
3
4
5
6
7
CAR
CAR
SS
IW
SS
SS
PAL
Major Lithology:
Light greenish gray to greenish gray (5GY 7/1-5GY 5/1) CLAYEY CHALK WITH FORAMINIFERS, ZEOLITES, QUARTZ, AND CARBONATE DEBRIS
General Description:
The core consists of light greenish gray to greenish gray (5GY 7/1-5GY 5/1) CLAYEY CHALK WITH FORAMINIFERS, ZEOLITES QUARTZ, AND CARBONATE DEBRIS. Minor constituents include pyrite, barite, and dolomite. Color variations within the core were cyclic on a 20 to 80 cm scale. Bioturbation was extensive to pervasive with discrete traces of Zoophycos, Chondrites, and Planolites. Biscuiting is common through the core.
Barite Nodule
Barite Nodule
Barite Nodule
All of Core Catcher (2 cm) was given to the Paleontologists.

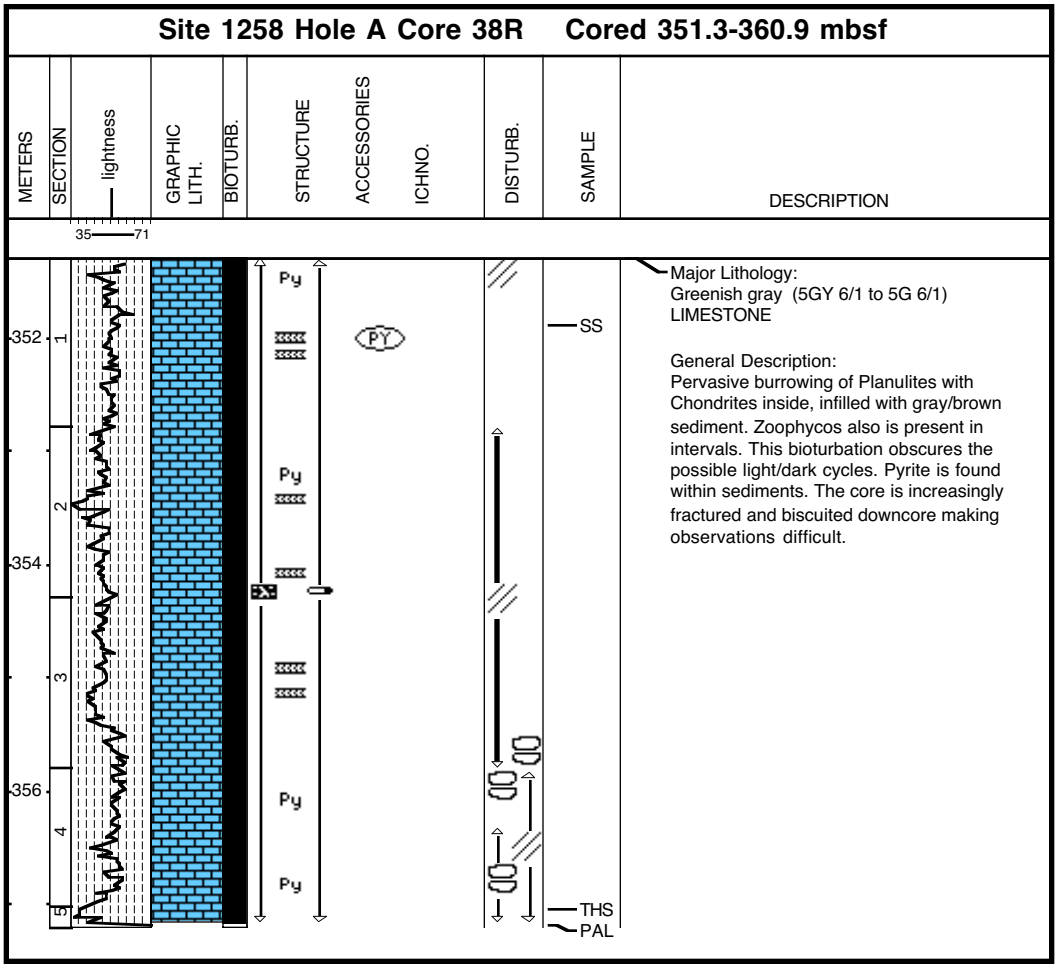
Core Photo


Site 1258 Hole A Core 36R Cored 332.0-341.7 mbsf
METERS
SECTION
lightness
34
56
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
334
336
338
340
1
2
3
4
5
6
7
8
SS
CAR
CAR
SS
SS
CAR
barite
Major Lithology:
Light greenish gray to dark greenish gray (5GY 7/1- 10Y 5/1, 5GY 4/1) CLAYEY CHALK WITH QUARTZ, NANNOFOSSILS AND CARBONATE DEBRIS
General Description:
Core is burrow mottled throughout with discrete traces indentified as Zoophycos, Chondrites, and Planolites. Fill in the discrete burrows is often darker than surrounding sediment and is clay-rich. Dark FeS(?) burrow halos are common. A relatively high abundance of dark filled burrows in Sections 2, 3, 4 imparts a low value to this interval in the core. Subtle dark light alternations at a 20 – 30 cm scale are apparent throughout. Minor constituents include pyrite, barite, and dolomite. A 20 cm pyrite vein is present in Section 5, 30 – 50 cm.
Section 5, 30 - 50 cm, 2 mm thick pyrite vein
barite

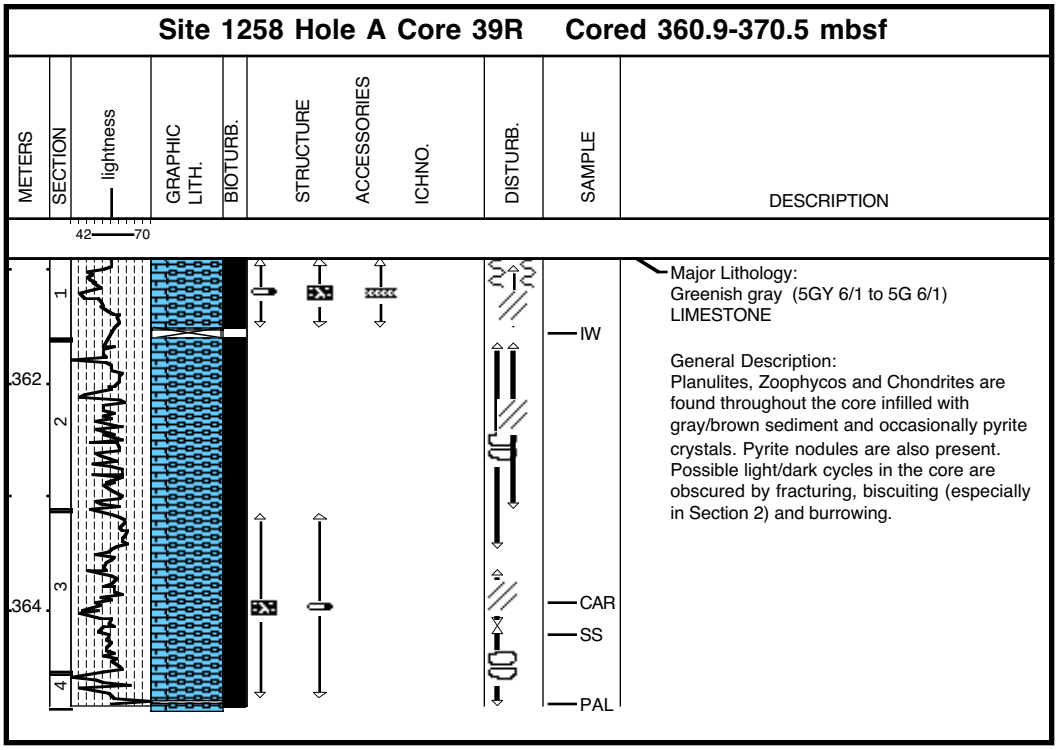
Core Photo


Site 1258 Hole A Core 37R Cored 341.7-351.3 mbsf
METERS
SECTION
lightness
27
53
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
342
344
346
348
1
2
3
4
5
6
SS
CAR
IW
SS
CAR
PAL
Major Lithology:
Greenish gray (5GY 5/1 to 5G 5/1)
LIMESTONE WITH NANNOFOSSILS to
CALCITE AND CLAY CHALK WITH
NANNOFOSSILS AND PYRITE
General Description:
Subtle variations in color hint at light/dark greenish gray cycles (20-50 cm scale) throughout the core, but mottling by bioturbation slightly obscures the cycles. Planulites are abundant and are infilled with gray/brown sediment and often have Chondrites within them. Zoophycos are also present during various intervals. Burrows occasionally have black/gray halos around them and accumulations of pyrite crystals also present. Sediment is much harder and difficult to take smear slides.

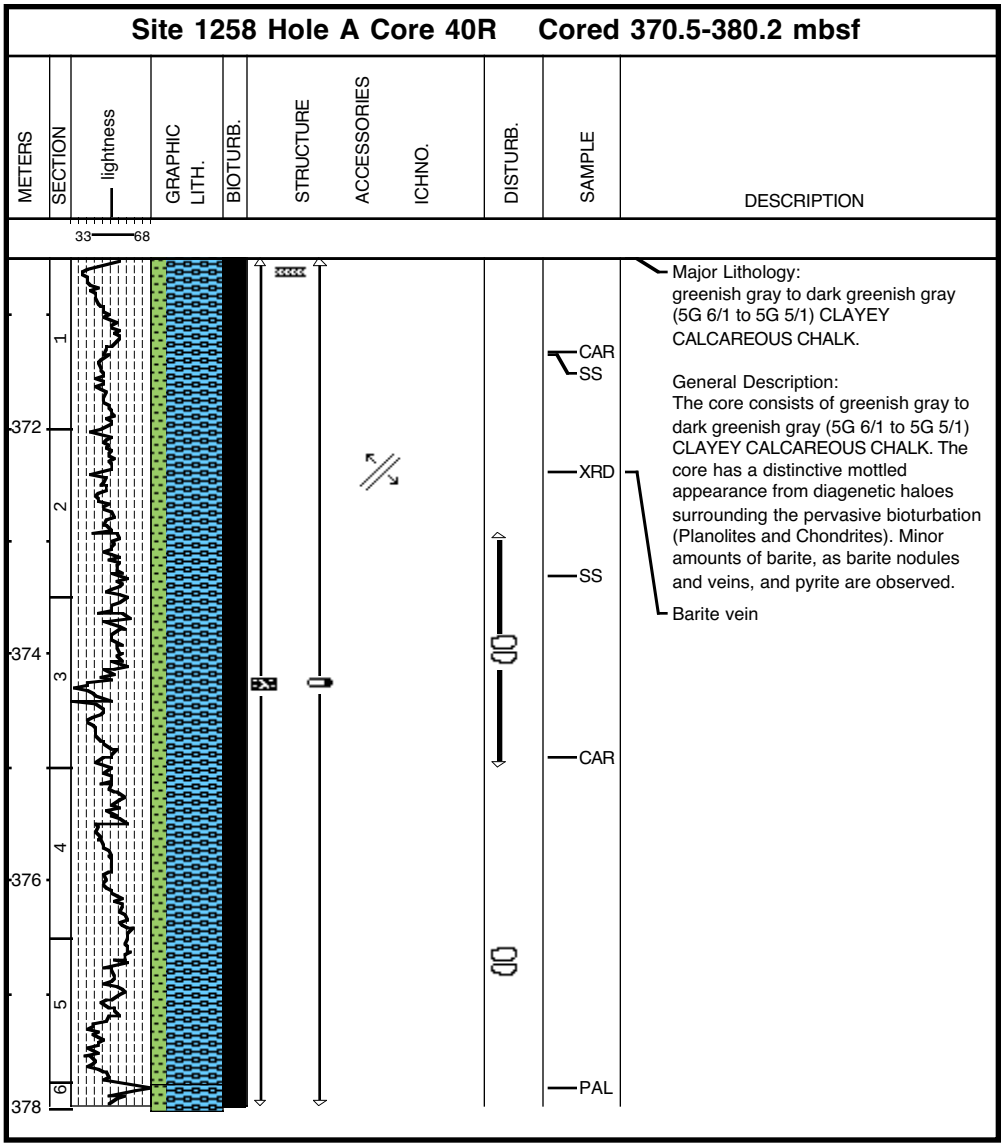
Core Photo


Site 1258 Hole A Core 38R Cored 351.3-360.9 mbsf
METERS
SECTION
lightness
35
71
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
352
354
356
1
2
3
4
5
Py
PY
SS
THS
PAL
Major Lithology:
Greenish gray (5GY 6/1 to 5G 6/1)
LIMESTONE
General Description:
Pervasive burrowing of Planulites with Chondrites inside, infilled with gray/brown sediment. Zoophycos also is present in intervals. This bioturbation obscures the possible light/dark cycles. Pyrite is found within sediments. The core is increasingly fractured and biscuited downcore making observations difficult.

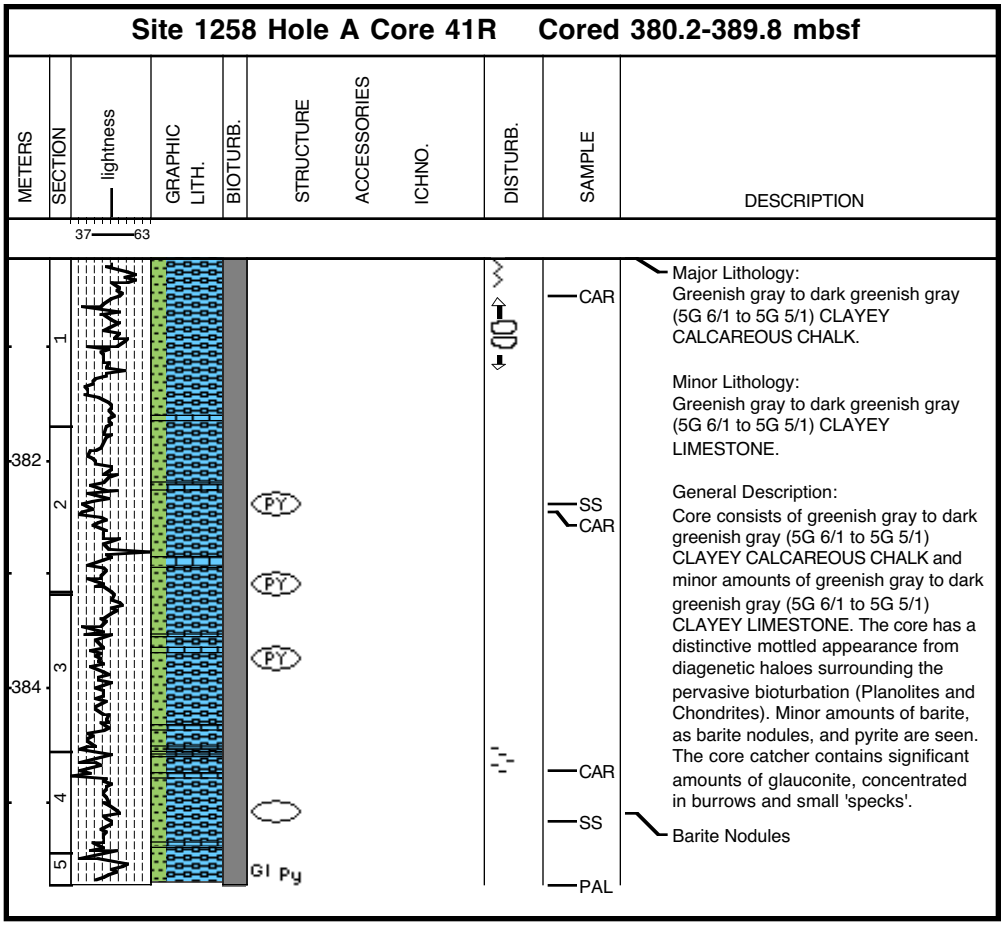
Core Photo


Site 1258 Hole A Core 39R Cored 360.9-370.5 mbsf
METERS
SECTION
lightness
42
70
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
362
364
1
2
3
4
IW
CAR
SS
PAL
Major Lithology:
Greenish gray (5GY 6/1 to 5G 6/1)
LIMESTONE
General Description:
Planulites, Zoophycos and Chondrites are found throughout the core infilled with gray/brown sediment and occasionally pyrite crystals. Pyrite nodules are also present. Possible light/dark cycles in the core are obscured by fracturing, biscuiting (especially in Section 2) and burrowing.

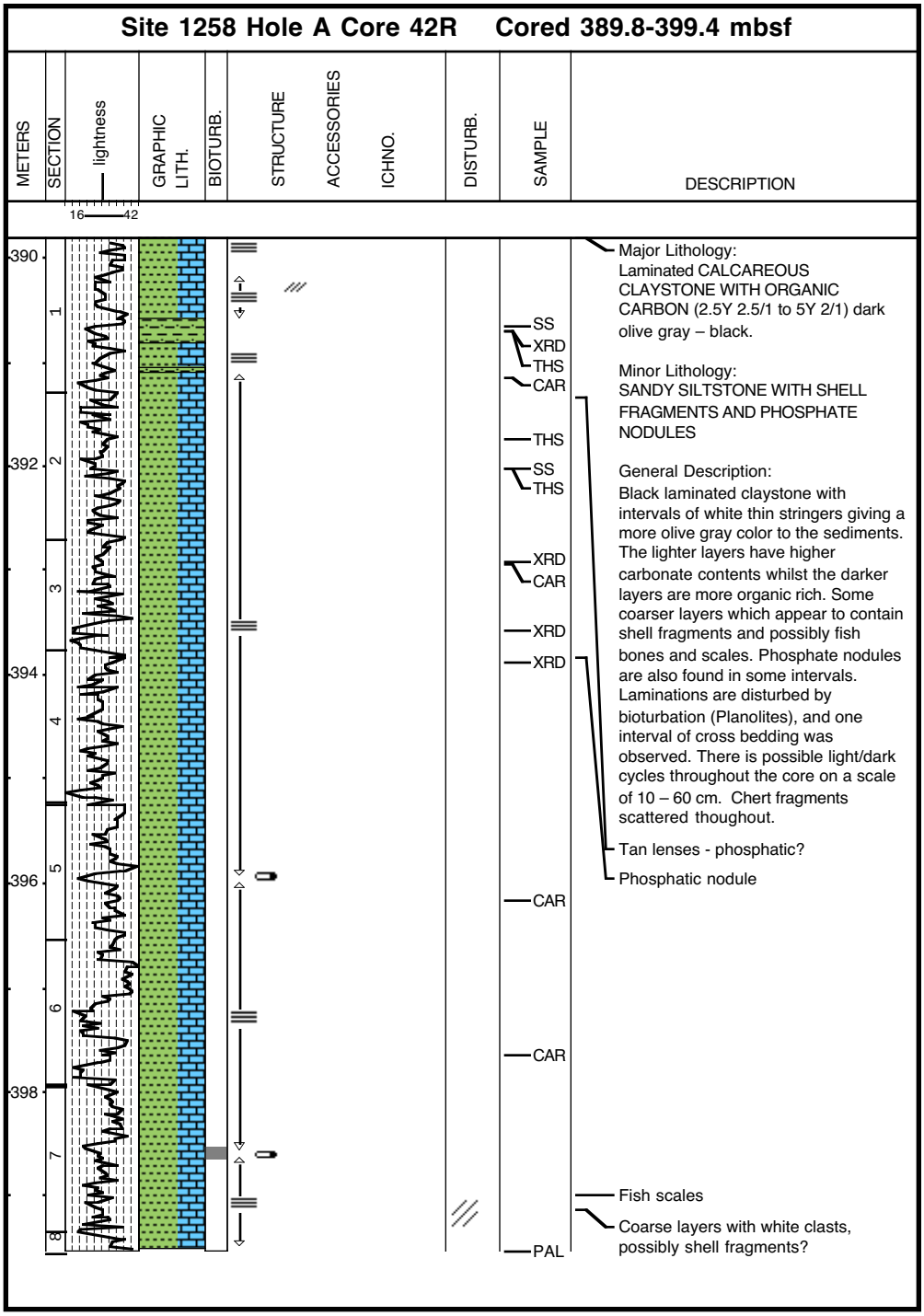
Core Photo


Site 1258 Hole A Core 40R Cored 370.5-380.2 mbsf
METERS
SECTION
lightness
33
68
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
372
374
376
378
1
2
3
4
5
6
CAR
SS
XRD
SS
CAR
PAL
Major Lithology:
greenish gray to dark greenish gray (5G 6/1 to 5G 5/1) CLAYEY CALCAREOUS CHALK.
General Description:
The core consists of greenish gray to dark greenish gray (5G 6/1 to 5G 5/1) CLAYEY CALCAREOUS CHALK. The core has a distinctive mottled appearance from diagenetic haloes surrounding the pervasive bioturbation (Planolites and Chondrites). Minor amounts of barite, as barite nodules and veins, and pyrite are observed.
Barite vein

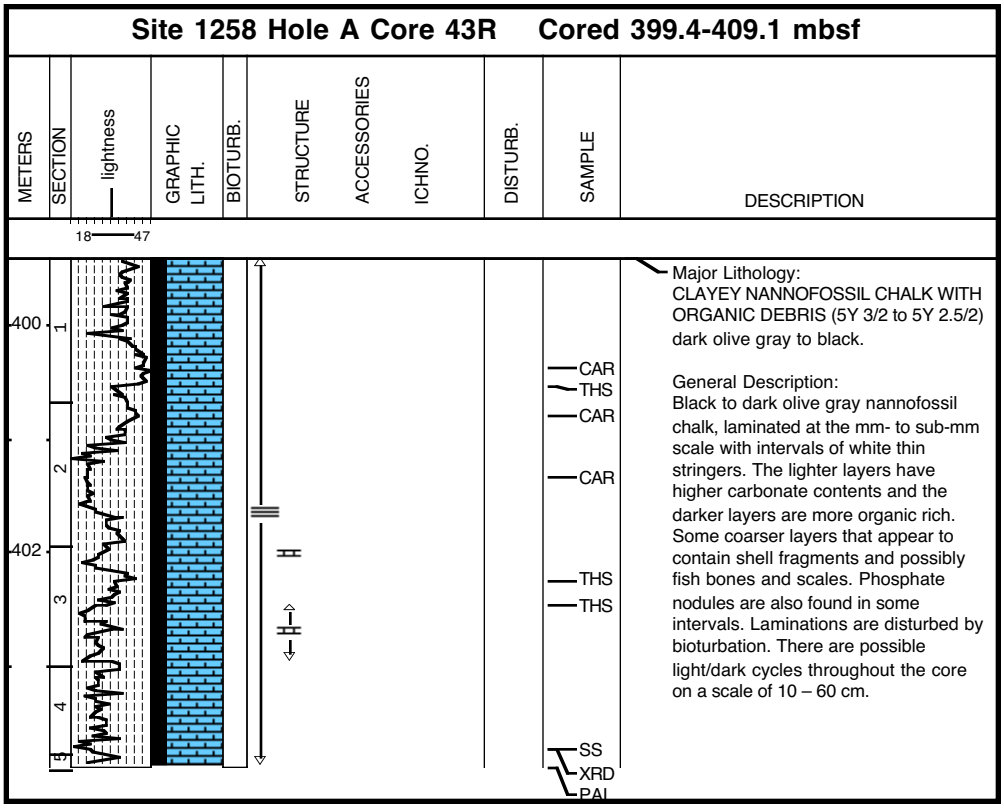
Core Photo


Site 1258 Hole A Core 41R Cored 380.2-389.8 mbsf
METERS
SECTION
lightness
37
63
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
382
384
1
2
3
4
5
PY
PY
PY
Gl Py
CAR
SS
CAR
CAR
SS
PAL
Major Lithology:
Greenish gray to dark greenish gray (5G 6/1 to 5G 5/1) CLAYEY CALCAREOUS CHALK.
Minor Lithology:
Greenish gray to dark greenish gray (5G 6/1 to 5G 5/1) CLAYEY LIMESTONE.
General Description:
Core consists of greenish gray to dark greenish gray (5G 6/1 to 5G 5/1) CLAYEY CALCAREOUS CHALK and minor amounts of greenish gray to dark greenish gray (5G 6/1 to 5G 5/1) CLAYEY LIMESTONE. The core has a distinctive mottled appearance from diagenetic haloes surrounding the pervasive bioturbation (Planolites and Chondrites). Minor amounts of barite, as barite nodules, and pyrite are seen. The core catcher contains significant amounts of glauconite, concentrated in burrows and small 'specks'.
Barite Nodules

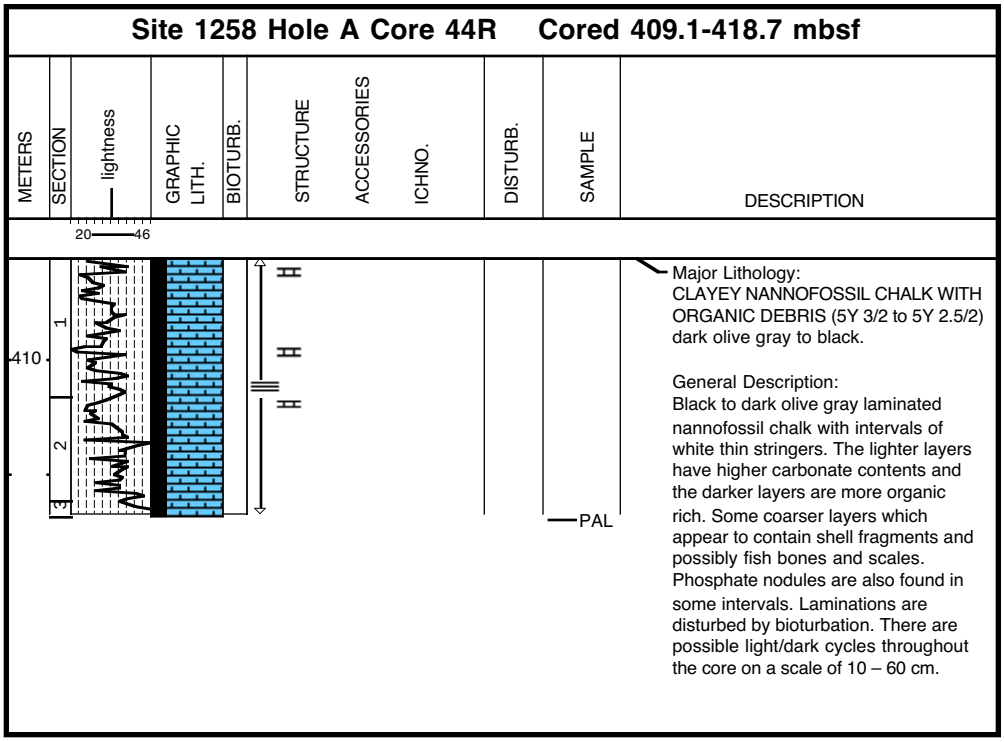
Core Photo


Site 1258 Hole A Core 42R Cored 389.8-399.4 mbsf
METERS
SECTION
lightness
16
42
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
390
392
394
396
398
1
2
3
4
5
6
7
8
SS
XRD
THS
CAR
THS
SS
THS
XRD
CAR
XRD
XRD
CAR
CAR
PAL
Major Lithology:
Laminated CALCAREOUS CLAYSTONE WITH ORGANIC CARBON (2.5Y 2.5/1 to 5Y 2/1) dark olive gray – black.
Minor Lithology:
SANDY SILTSTONE WITH SHELL FRAGMENTS AND PHOSPHATE NODULES
General Description:
Black laminated claystone with intervals of white thin stringers giving a more olive gray color to the sediments. The lighter layers have higher carbonate contents whilst the darker layers are more organic rich. Some coarser layers which appear to contain shell fragments and possibly fish bones and scales. Phosphate nodules are also found in some intervals. Laminations are disturbed by bioturbation (Planolites), and one interval of cross bedding was observed. There is possible light/dark cycles throughout the core on a scale of 10 – 60 cm. Chert fragments scattered thoughout.
Tan lenses - phosphatic?
Phosphatic nodule
Fish scales
Coarse layers with white clasts, possibly shell fragments?

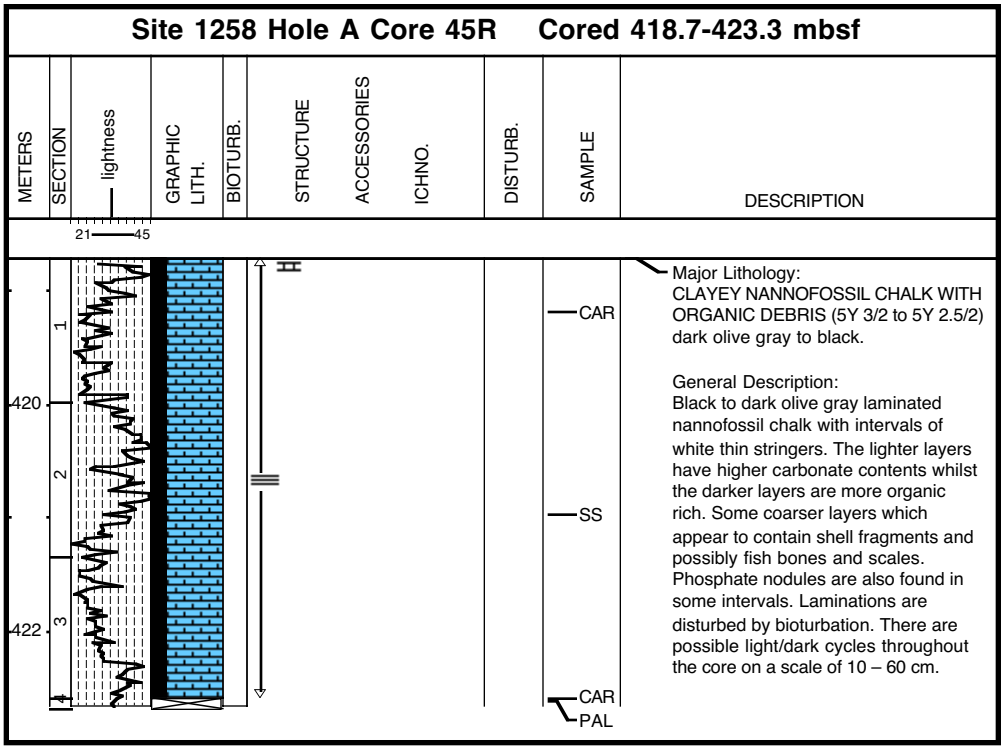
Core Photo


Site 1258 Hole A Core 43R Cored 399.4-409.1 mbsf
METERS
SECTION
lightness
18
47
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
400
402
1
2
3
4
5
CAR
THS
CAR
CAR
THS
THS
SS
XRD
PAL
Major Lithology:
CLAYEY NANNOFOSSIL CHALK WITH ORGANIC DEBRIS (5Y 3/2 to 5Y 2.5/2) dark olive gray to black.
General Description:
Black to dark olive gray nannofossil chalk, laminated at the mm- to sub-mm scale with intervals of white thin stringers. The lighter layers have higher carbonate contents and the darker layers are more organic rich. Some coarser layers that appear to contain shell fragments and possibly fish bones and scales. Phosphate nodules are also found in some intervals. Laminations are disturbed by bioturbation. There are possible light/dark cycles throughout the core on a scale of 10 – 60 cm.

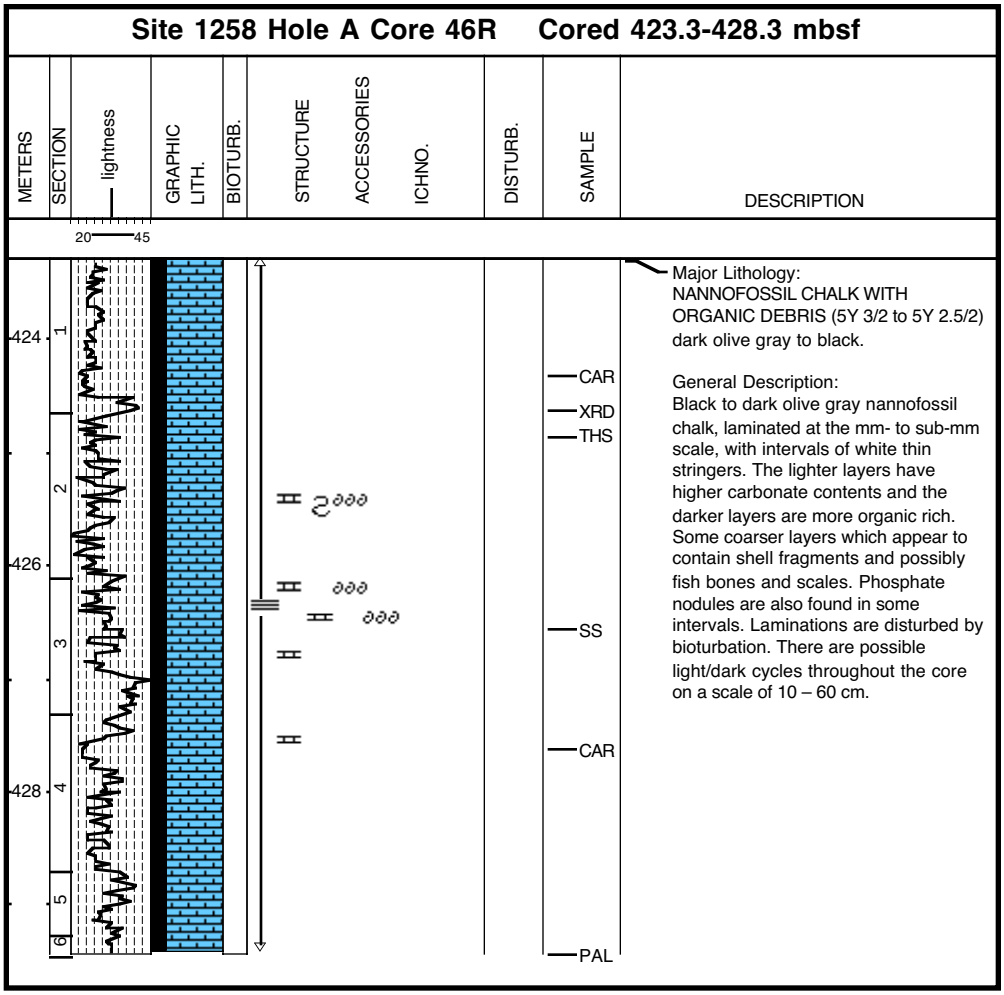
Core Photo


Site 1258 Hole A Core 44R Cored 409.1-418.7 mbsf
METERS
SECTION
lightness
20
46
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
410
1
2
3
PAL
Major Lithology:
CLAYEY NANNOFOSSIL CHALK WITH ORGANIC DEBRIS (5Y 3/2 to 5Y 2.5/2) dark olive gray to black.
General Description:
Black to dark olive gray laminated nannofossil chalk with intervals of white thin stringers. The lighter layers have higher carbonate contents and the darker layers are more organic rich. Some coarser layers which appear to contain shell fragments and possibly fish bones and scales. Phosphate nodules are also found in some intervals. Laminations are disturbed by bioturbation. There are possible light/dark cycles throughout the core on a scale of 10 – 60 cm.

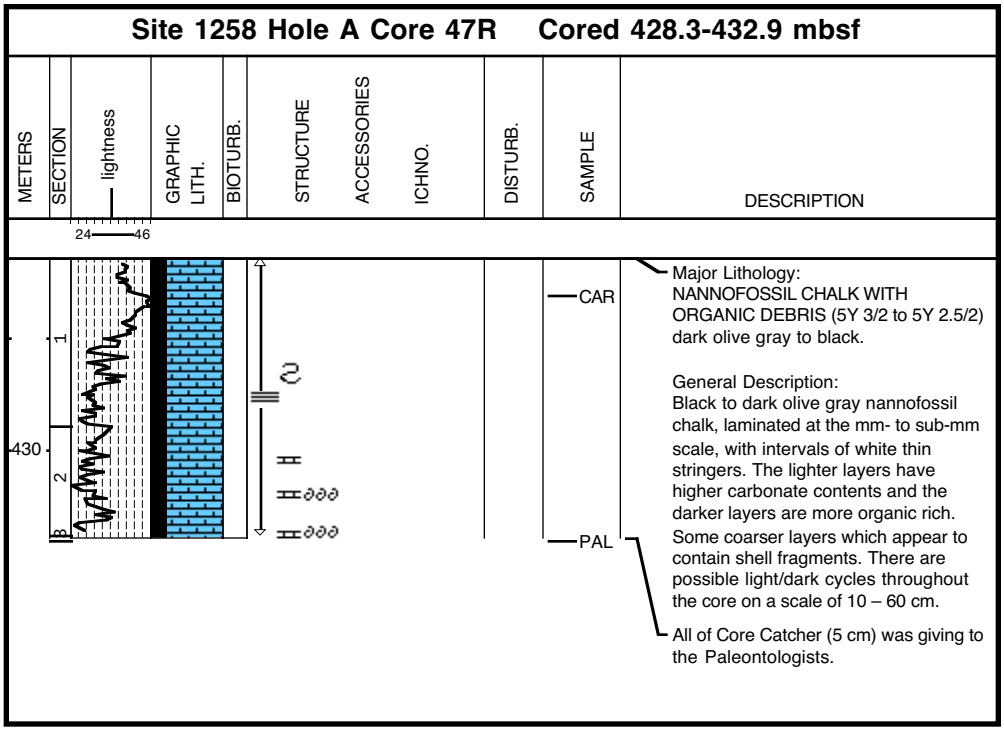
Core Photo


Site 1258 Hole A Core 45R Cored 418.7-423.3 mbsf
METERS
SECTION
lightness
21
45
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
420
422
1
2
3
4
CAR
SS
CAR
PAL
Major Lithology:
CLAYEY NANNOFOSSIL CHALK WITH ORGANIC DEBRIS (5Y 3/2 to 5Y 2.5/2) dark olive gray to black.
General Description:
Black to dark olive gray laminated nannofossil chalk with intervals of white thin stringers. The lighter layers have higher carbonate contents whilst the darker layers are more organic rich. Some coarser layers which appear to contain shell fragments and possibly fish bones and scales. Phosphate nodules are also found in some intervals. Laminations are disturbed by bioturbation. There are possible light/dark cycles throughout the core on a scale of 10 – 60 cm.

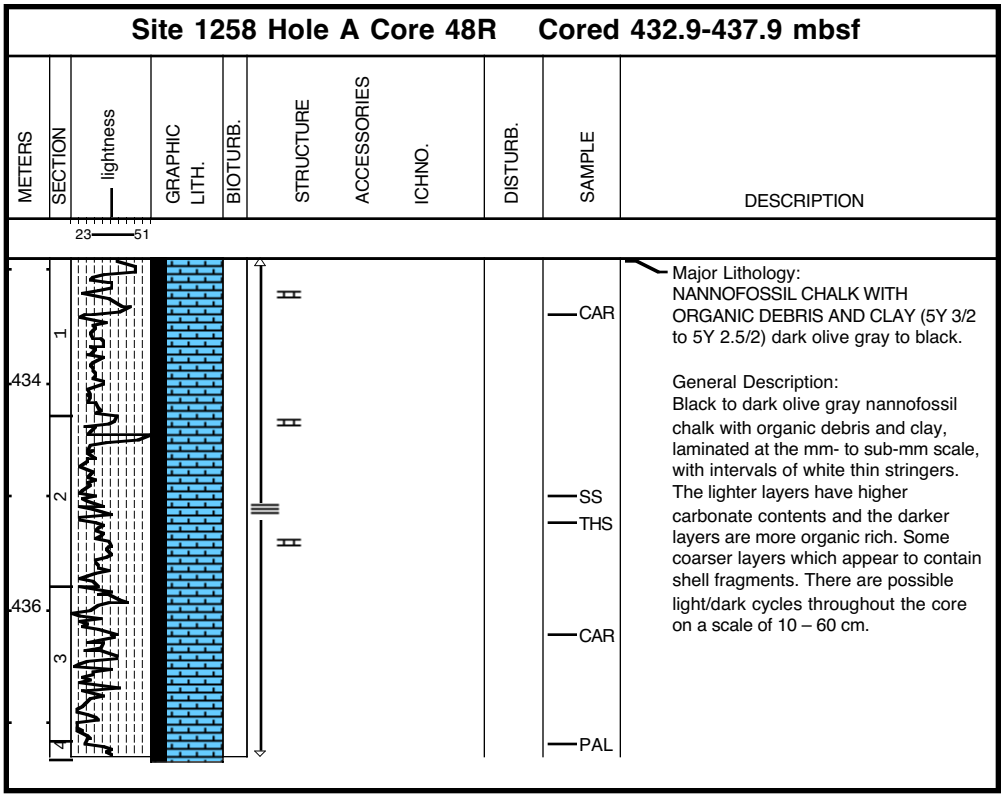
Core Photo


Site 1258 Hole A Core 46R Cored 423.3-428.3 mbsf
METERS
SECTION
lightness
20
45
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
424
426
428
1
2
3
4
5
6
CAR
XRD
THS
SS
CAR
PAL
Major Lithology:
NANNOFOSSIL CHALK WITH ORGANIC DEBRIS (5Y 3/2 to 5Y 2.5/2) dark olive gray to black.
General Description:
Black to dark olive gray nannofossil chalk, laminated at the mm- to sub-mm scale, with intervals of white thin stringers. The lighter layers have higher carbonate contents and the darker layers are more organic rich. Some coarser layers which appear to contain shell fragments and possibly fish bones and scales. Phosphate nodules are also found in some intervals. Laminations are disturbed by bioturbation. There are possible light/dark cycles throughout the core on a scale of 10 – 60 cm.

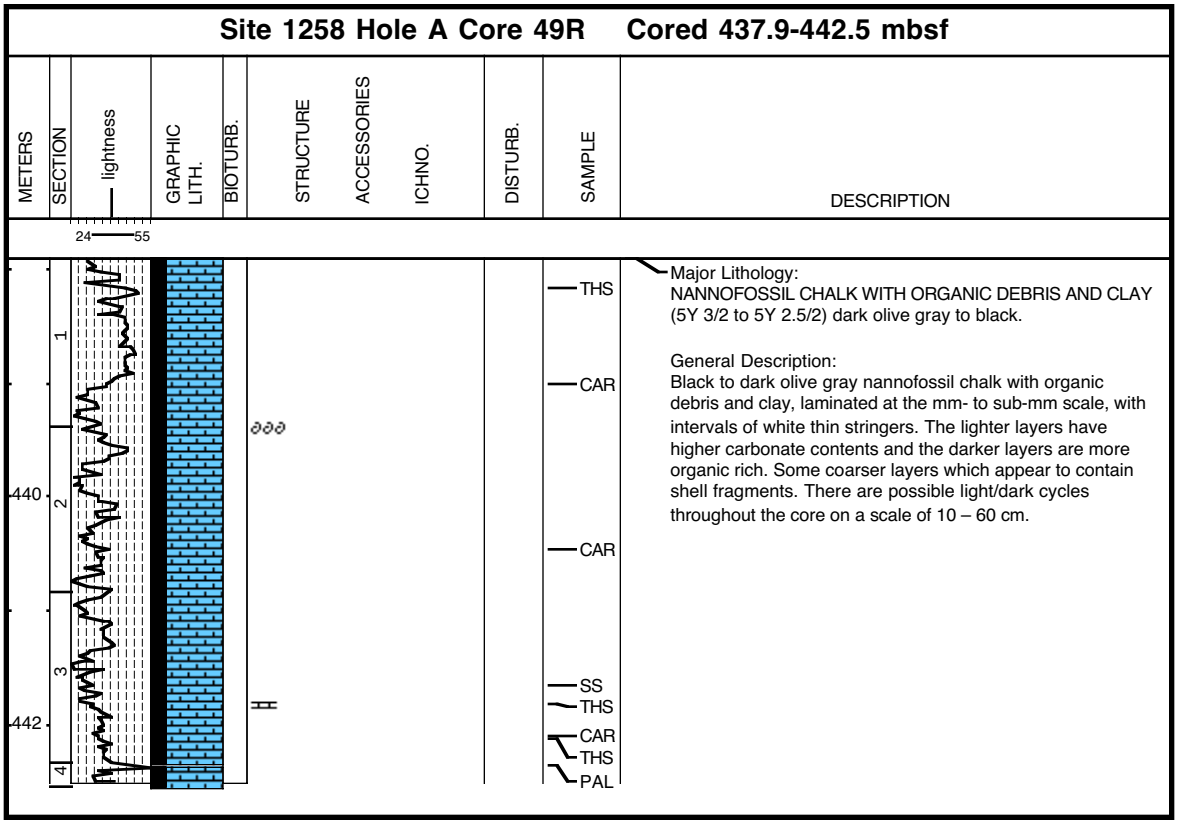
Core Photo


Site 1258 Hole A Core 47R Cored 428.3-432.9 mbsf
METERS
SECTION
lightness
24
46
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
430
1
2
CAR
PAL
Major Lithology:
NANNOFOSSIL CHALK WITH ORGANIC DEBRIS (5Y 3/2 to 5Y 2.5/2) dark olive gray to black.
General Description:
Black to dark olive gray nannofossil chalk, laminated at the mm- to sub-mm scale, with intervals of white thin stringers. The lighter layers have higher carbonate contents and the darker layers are more organic rich. Some coarser layers which appear to contain shell fragments. There are possible light/dark cycles throughout the core on a scale of 10 – 60 cm.
All of Core Catcher (5 cm) was giving to the Paleontologists.

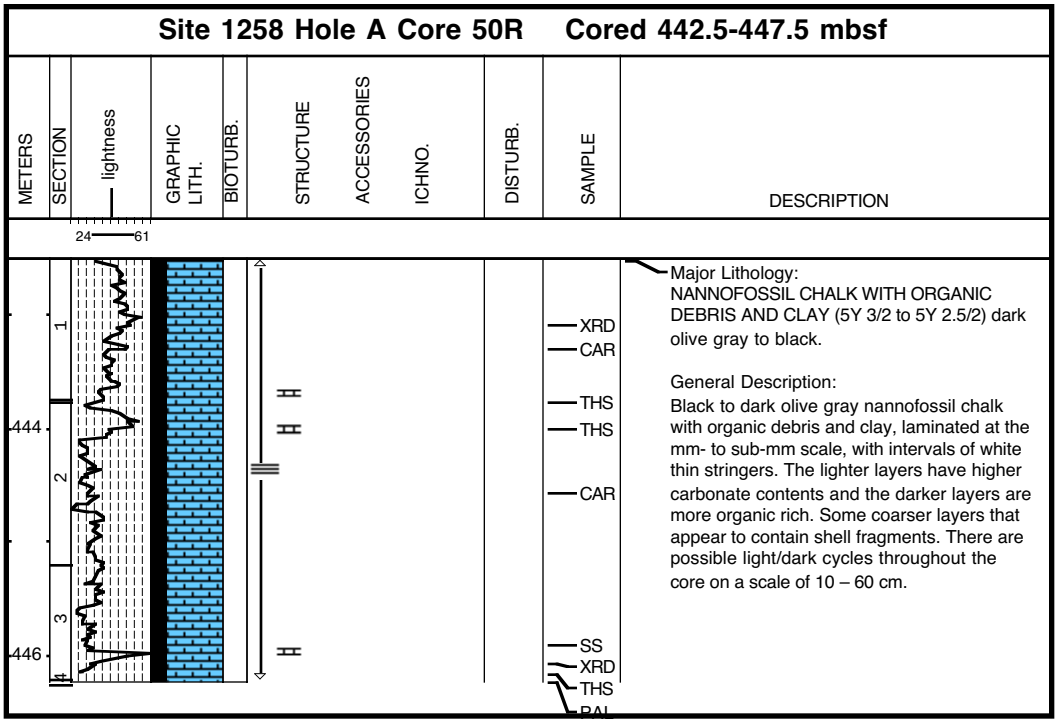
Core Photo


Site 1258 Hole A Core 48R Cored 432.9-437.9 mbsf
METERS
SECTION
lightness
23
51
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
434
436
1
2
3
4
CAR
SS
THS
CAR
PAL
Major Lithology:
NANNOFOSSIL CHALK WITH ORGANIC DEBRIS AND CLAY (5Y 3/2 to 5Y 2.5/2) dark olive gray to black.
General Description:
Black to dark olive gray nannofossil chalk with organic debris and clay, laminated at the mm- to sub-mm scale, with intervals of white thin stringers. The lighter layers have higher carbonate contents and the darker layers are more organic rich. Some coarser layers which appear to contain shell fragments. There are possible light/dark cycles throughout the core on a scale of 10 – 60 cm.

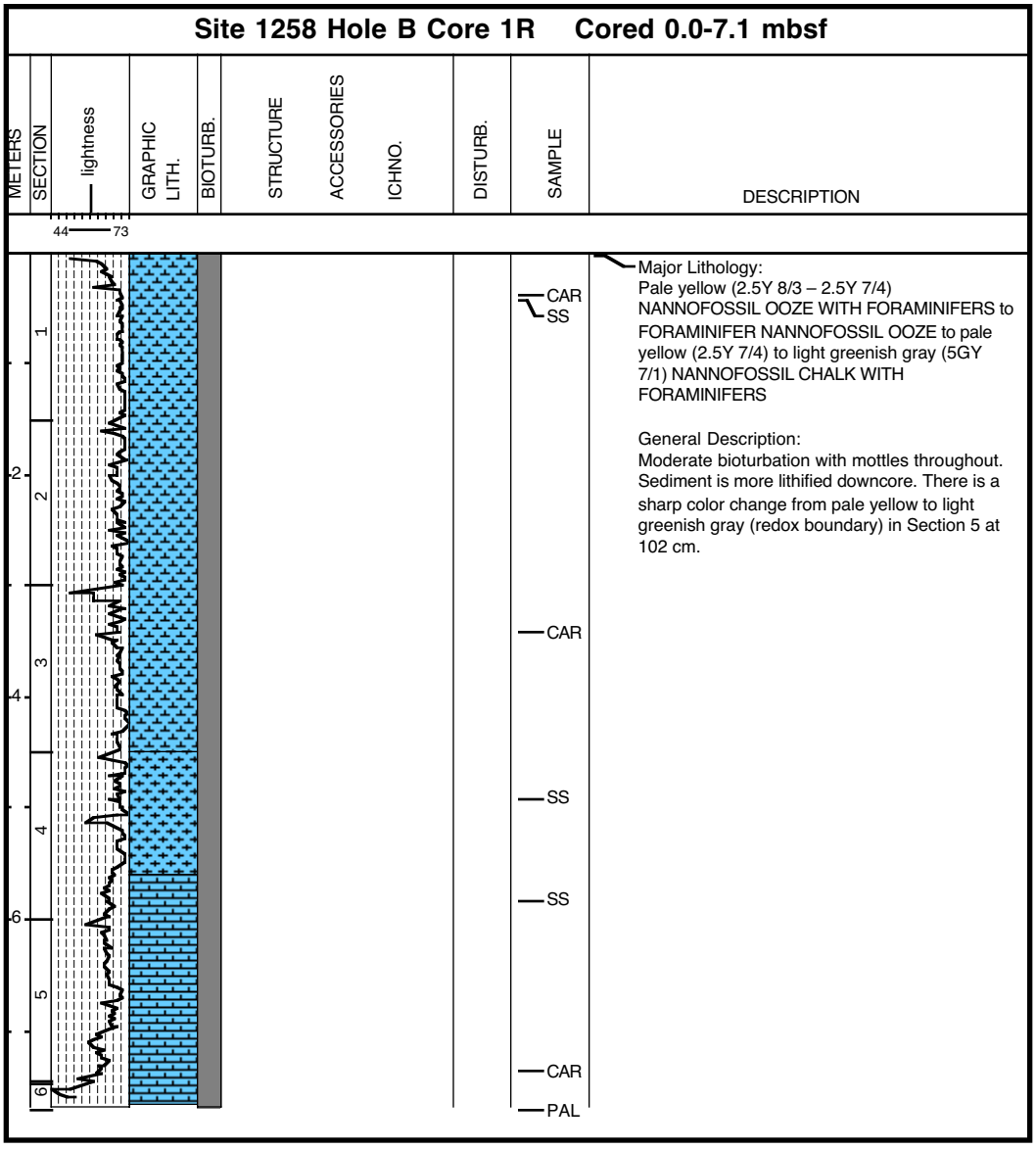
Core Photo


Site 1258 Hole A Core 49R Cored 437.9-442.5 mbsf
METERS
SECTION
lightness
24
55
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
440
442
1
2
3
4
H
THS
CAR
CAR
SS
THS
CAR
THS
PAL
Major Lithology:
NANNOFOSSIL CHALK WITH ORGANIC DEBRIS AND CLAY (5Y 3/2 to 5Y 2.5/2) dark olive gray to black.
General Description:
Black to dark olive gray nannofossil chalk with organic debris and clay, laminated at the mm- to sub-mm scale, with intervals of white thin stringers. The lighter layers have higher carbonate contents and the darker layers are more organic rich. Some coarser layers which appear to contain shell fragments. There are possible light/dark cycles throughout the core on a scale of 10 – 60 cm.

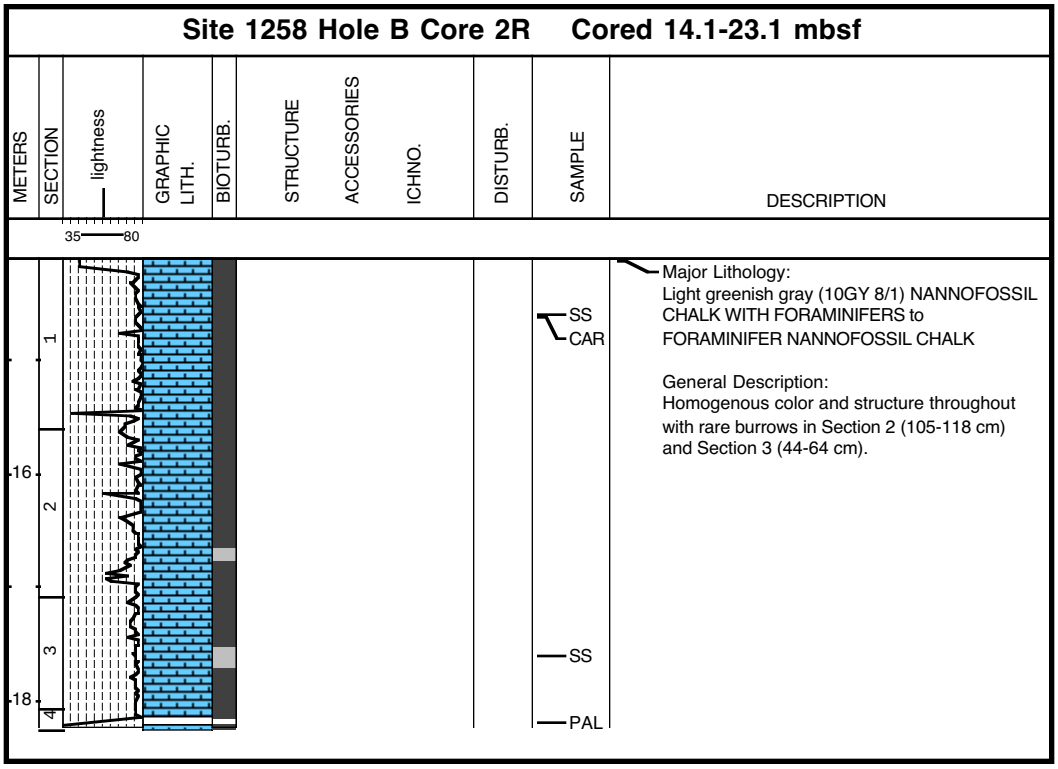
Core Photo


Site 1258 Hole A Core 50R Cored 442.5-447.5 mbsf
METERS
SECTION
lightness
24
61
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
444
446
1
2
3
4
XRD
CAR
THS
THS
CAR
SS
XRD
THS
Major Lithology:
NANNOFOSSIL CHALK WITH ORGANIC DEBRIS AND CLAY (5Y 3/2 to 5Y 2.5/2) dark olive gray to black.
General Description:
Black to dark olive gray nannofossil chalk with organic debris and clay, laminated at the mm- to sub-mm scale, with intervals of white thin stringers. The lighter layers have higher carbonate contents and the darker layers are more organic rich. Some coarser layers that appear to contain shell fragments. There are possible light/dark cycles throughout the core on a scale of 10 – 60 cm.

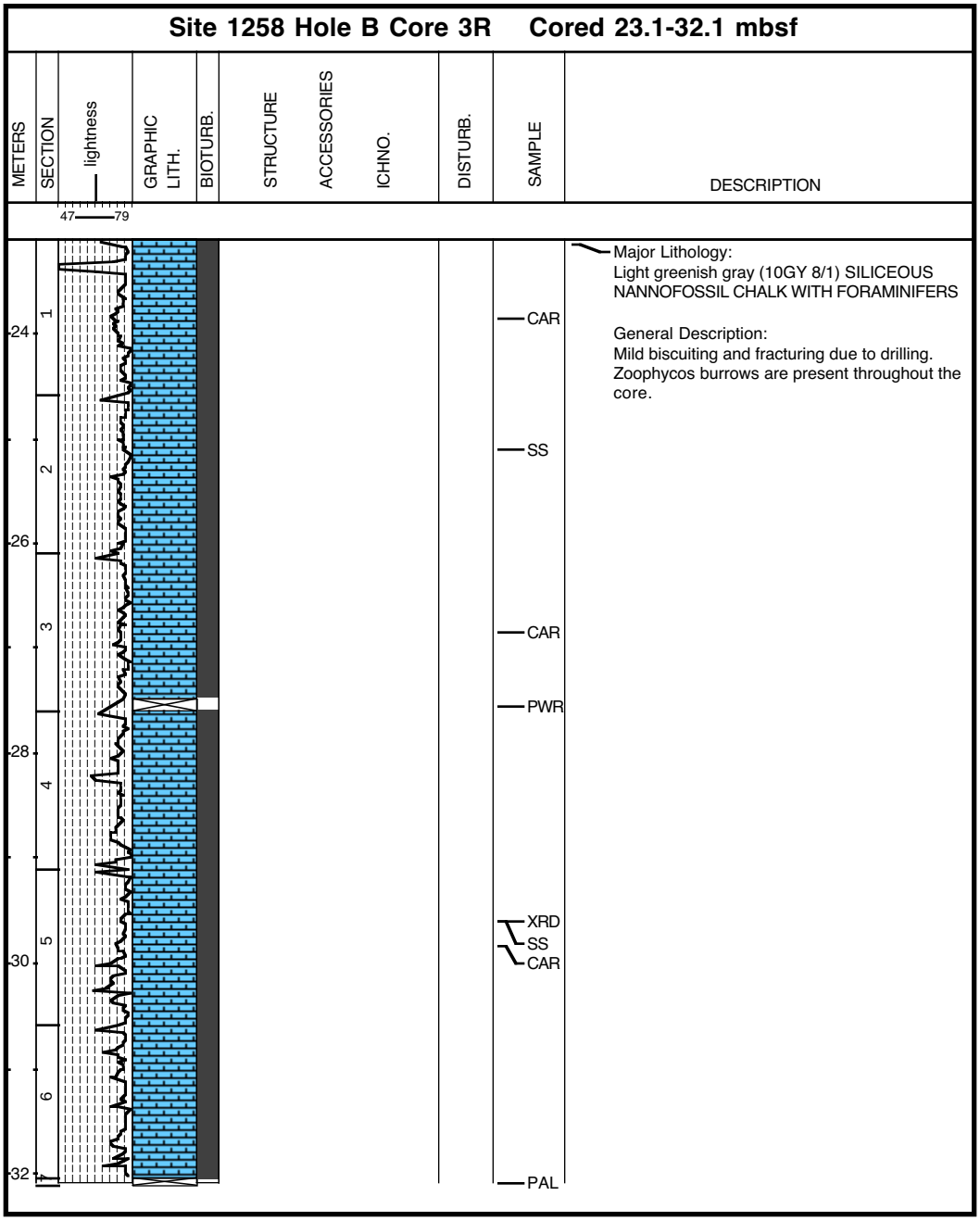
Core Photo


Site 1258 Hole B Core 1R Cored 0.0-7.1 mbsf
METERS
SECTION
lightness
44
73
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
CAR
SS
CAR
SS
SS
CAR
PAL
Major Lithology:
Pale yellow (2.5Y 8/3 – 2.5Y 7/4) NANNOFOSSIL OOZE WITH FORAMINIFERS to FORAMINIFER NANNOFOSSIL OOZE to pale yellow (2.5Y 7/4) to light greenish gray (5GY 7/1) NANNOFOSSIL CHALK WITH FORAMINIFERS
General Description:
Moderate bioturbation with mottles throughout. Sediment is more lithified downcore. There is a sharp color change from pale yellow to light greenish gray (redox boundary) in Section 5 at 102 cm.

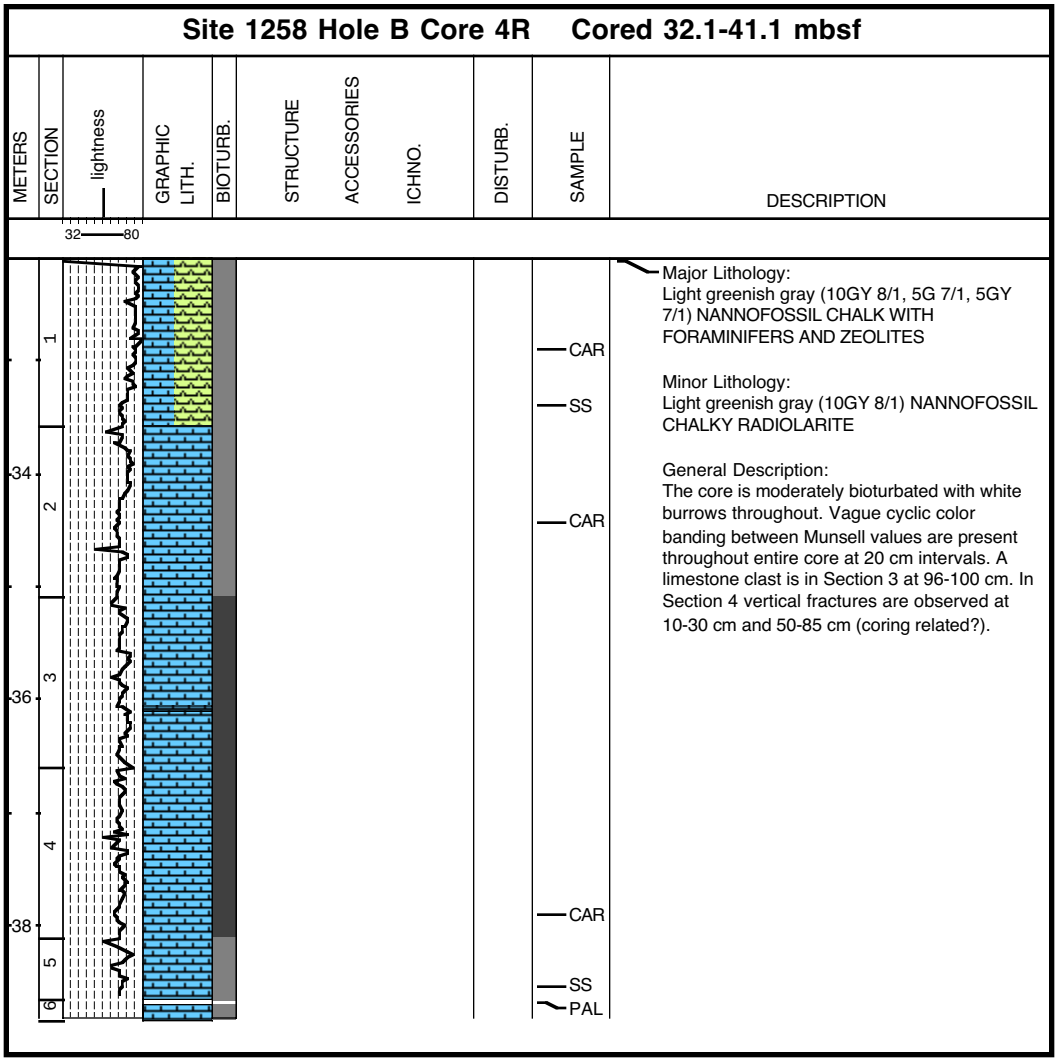
Core Photo


Site 1258 Hole B Core 2R Cored 14.1-23.1 mbsf
METERS
SECTION
lightness
35
80
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
16
18
1
2
3
4
SS
CAR
SS
PAL
Major Lithology:
Light greenish gray (10GY 8/1) NANNOFOSSIL CHALK WITH FORAMINIFERS to FORAMINIFER NANNOFOSSIL CHALK
General Description:
Homogenous color and structure throughout with rare burrows in Section 2 (105-118 cm) and Section 3 (44-64 cm).

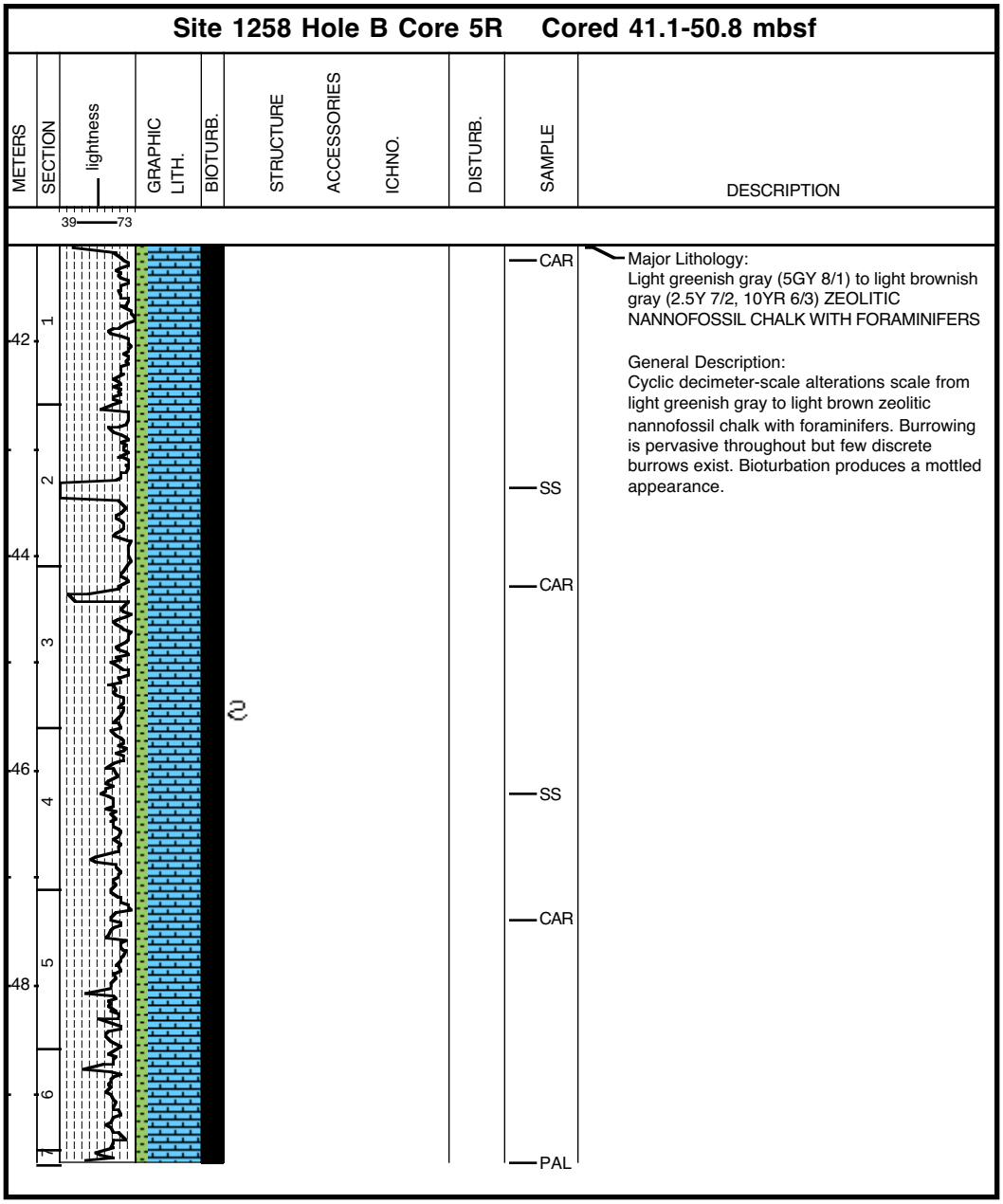
Core Photo


Site 1258 Hole B Core 3R Cored 23.1-32.1 mbsf
METERS
SECTION
lightness
47
79
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
24
26
28
30
32
1
2
3
4
5
6
CAR
SS
CAR
PWR
XRD
SS
CAR
PAL
Major Lithology:
Light greenish gray (10GY 8/1) SILICEOUS NANNOFOSSIL CHALK WITH FORAMINIFERS
General Description:
Mild biscuiting and fracturing due to drilling. Zoophycos burrows are present throughout the core.

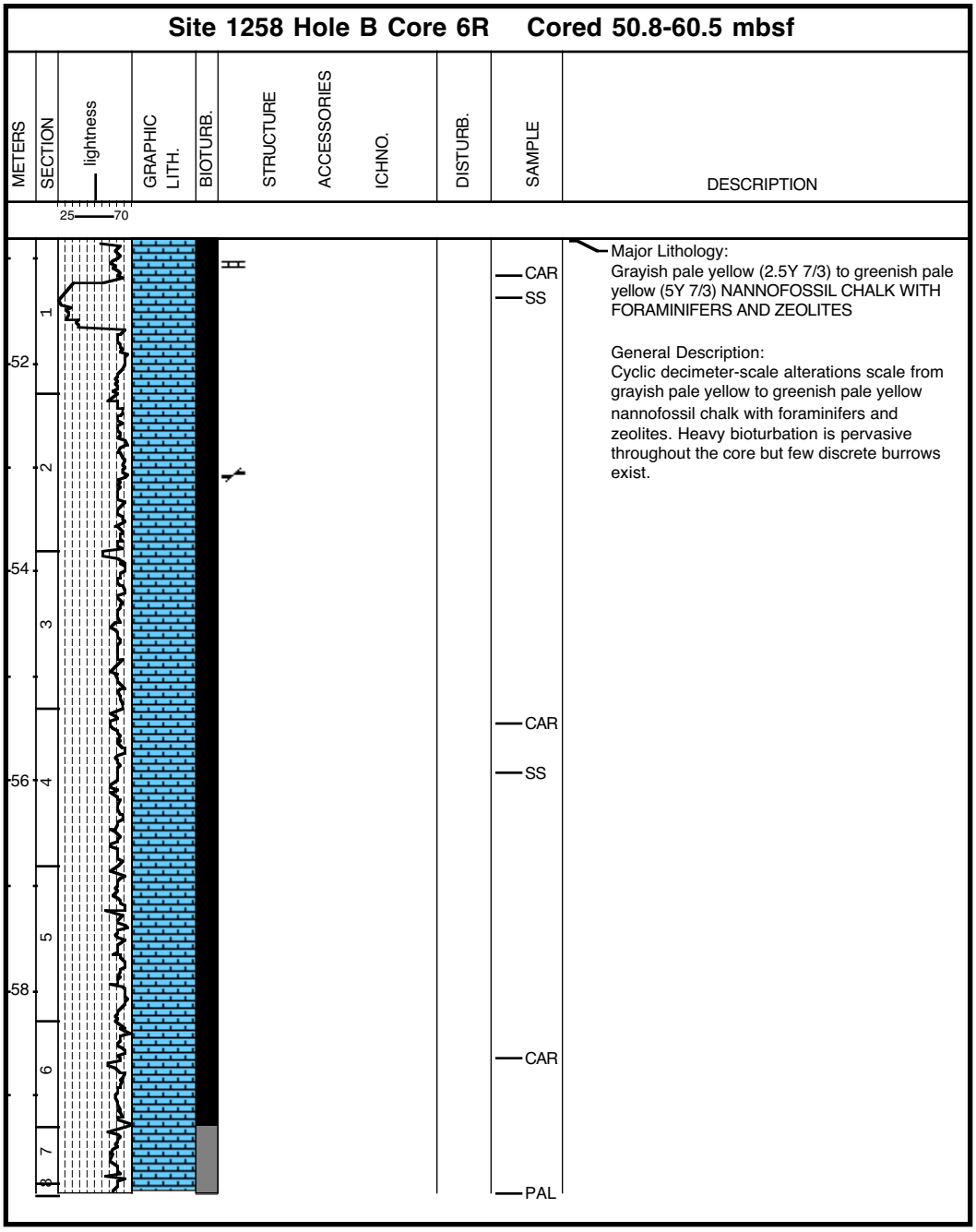
Core Photo


Site 1258 Hole B Core 4R Cored 32.1-41.1 mbsf
METERS
SECTION
lightness
32
80
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
34
36
38
1
2
3
4
5
6
CAR
SS
CAR
CAR
SS
PAL
Major Lithology:
Light greenish gray (10GY 8/1, 5G 7/1, 5GY 7/1) NANNOFOSSIL CHALK WITH FORAMINIFERS AND ZEOLITES
Minor Lithology:
Light greenish gray (10GY 8/1) NANNOFOSSIL CHALKY RADIOLARITE
General Description:
The core is moderately bioturbated with white burrows throughout. Vague cyclic color banding between Munsell values are present throughout entire core at 20 cm intervals. A limestone clast is in Section 3 at 96-100 cm. In Section 4 vertical fractures are observed at 10-30 cm and 50-85 cm (coring related?).

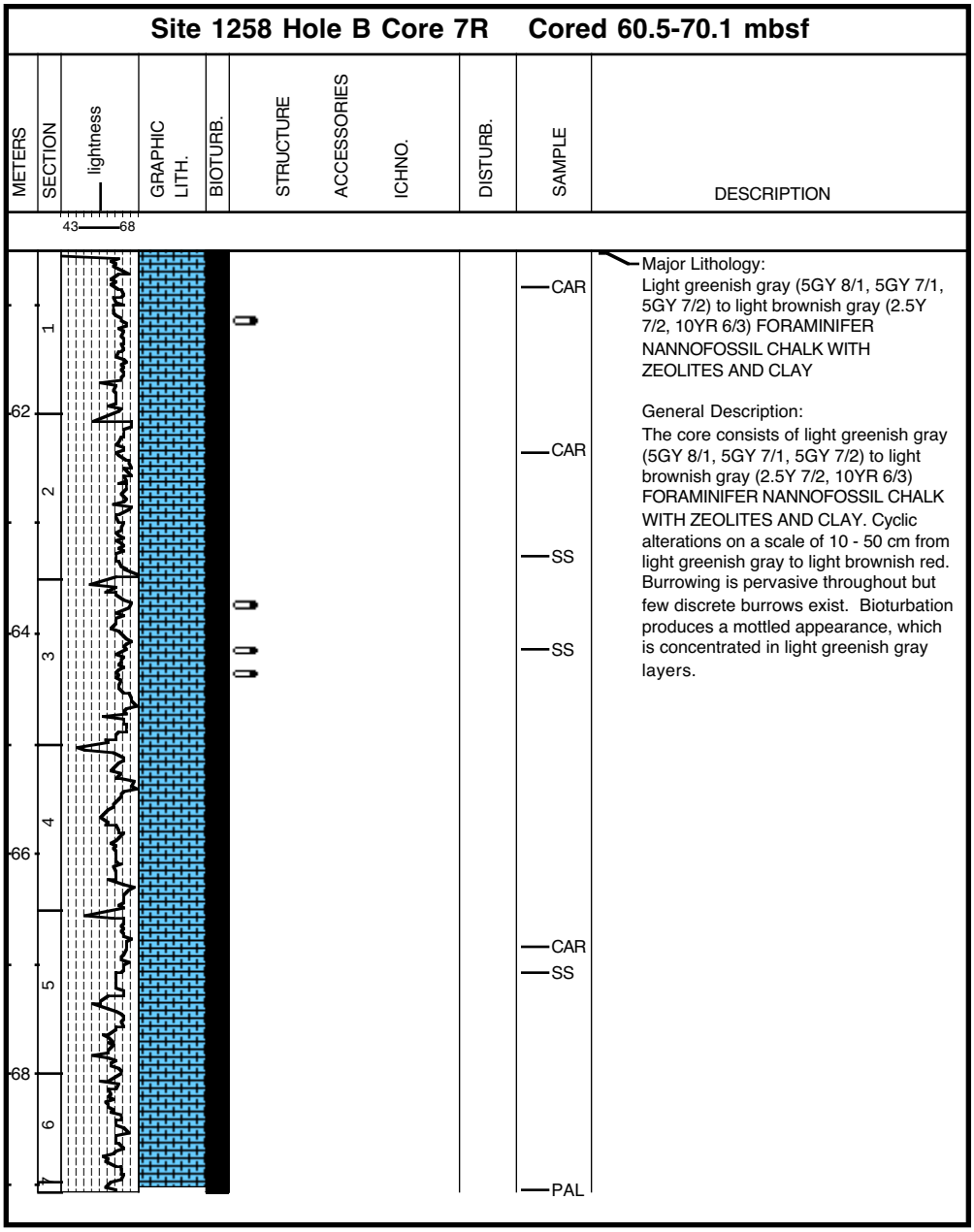
Core Photo


Site 1258 Hole B Core 5R Cored 41.1-50.8 mbsf
METERS
SECTION
lightness
39
73
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
42
44
46
48
1
2
3
4
5
6
7
CAR
SS
CAR
SS
CAR
PAL
Major Lithology:
Light greenish gray (5GY 8/1) to light brownish gray (2.5Y 7/2, 10YR 6/3) ZEOLITIC NANNOFOSSIL CHALK WITH FORAMINIFERS
General Description:
Cyclic decimeter-scale alterations scale from light greenish gray to light brown zeolitic nannofossil chalk with foraminifers. Burrowing is pervasive throughout but few discrete burrows exist. Bioturbation produces a mottled appearance.

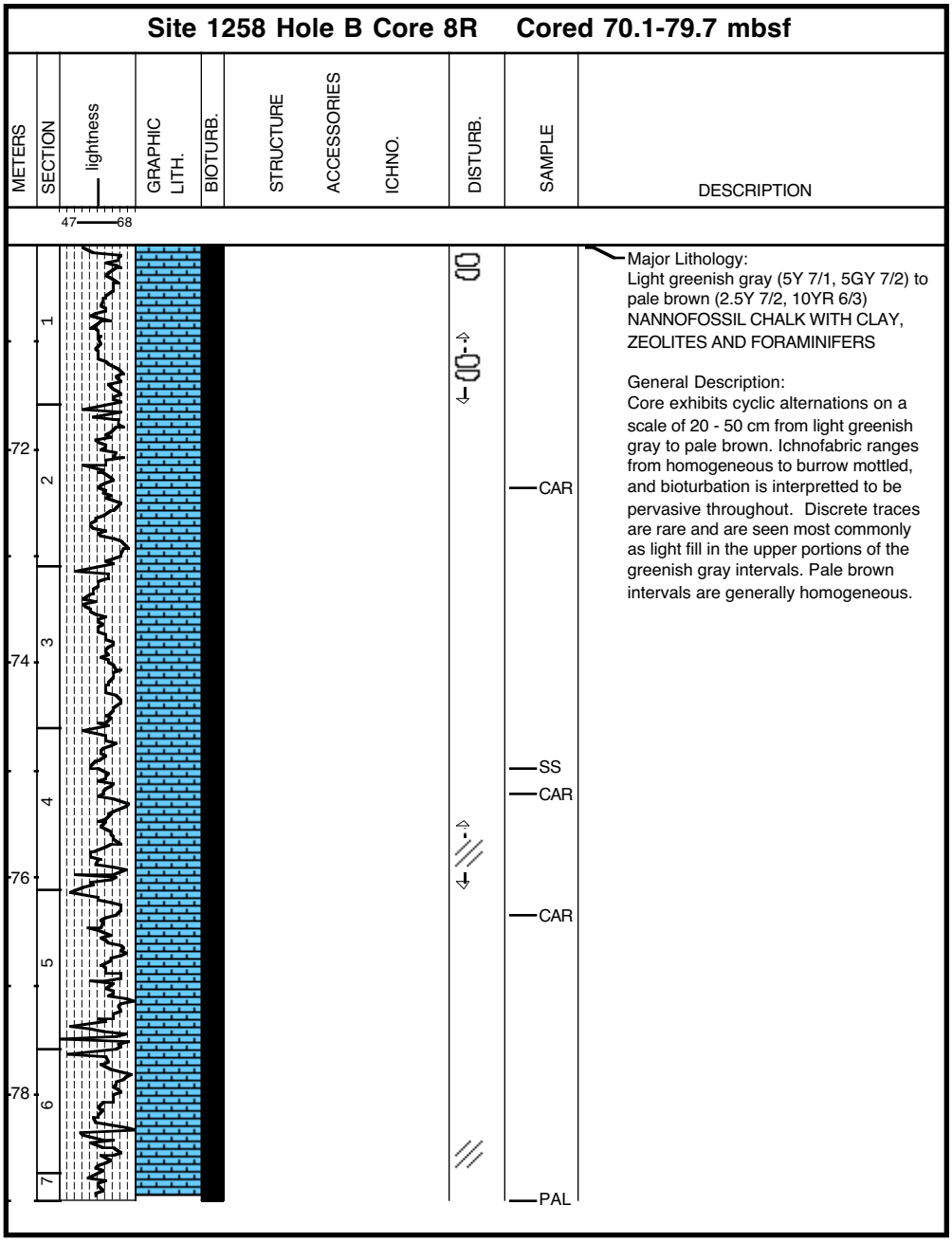
Core Photo


Site 1258 Hole B Core 6R Cored 50.8-60.5 mbsf
METERS
SECTION
lightness
25
70
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
52
54
56
58
1
2
3
4
5
6
7
CAR
SS
CAR
SS
CAR
PAL
Major Lithology:
Grayish pale yellow (2.5Y 7/3) to greenish pale yellow (5Y 7/3) NANNOFOSSIL CHALK WITH FORAMINIFERS AND ZEOLITES
General Description:
Cyclic decimeter-scale alterations scale from grayish pale yellow to greenish pale yellow nannofossil chalk with foraminifers and zeolites. Heavy bioturbation is pervasive throughout the core but few discrete burrows exist.

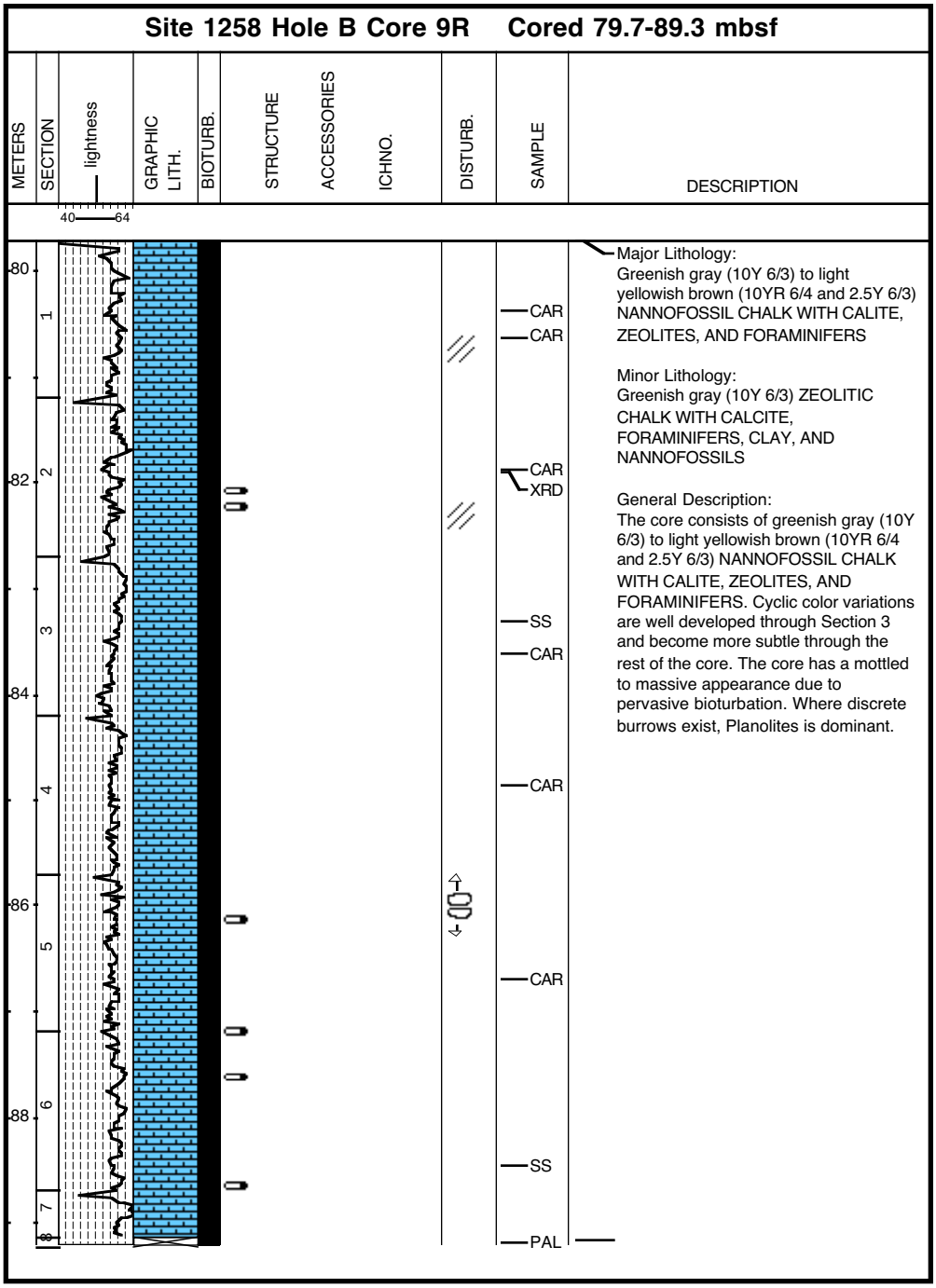
Core Photo


Site 1258 Hole B Core 7R Cored 60.5-70.1 mbsf
METERS
SECTION
lightness
43
68
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
62
64
66
68
1
2
3
4
5
6
7
CAR
CAR
SS
SS
CAR
SS
PAL
Major Lithology:
Light greenish gray (5GY 8/1, 5GY 7/1, 5GY 7/2) to light brownish gray (2.5Y 7/2, 10YR 6/3) FORAMINIFER NANNOFOSSIL CHALK WITH ZEOLITES AND CLAY
General Description:
The core consists of light greenish gray (5GY 8/1, 5GY 7/1, 5GY 7/2) to light brownish gray (2.5Y 7/2, 10YR 6/3) FORAMINIFER NANNOFOSSIL CHALK WITH ZEOLITES AND CLAY. Cyclic alterations on a scale of 10 - 50 cm from light greenish gray to light brownish red. Burrowing is pervasive throughout but few discrete burrows exist. Bioturbation produces a mottled appearance, which is concentrated in light greenish gray layers.

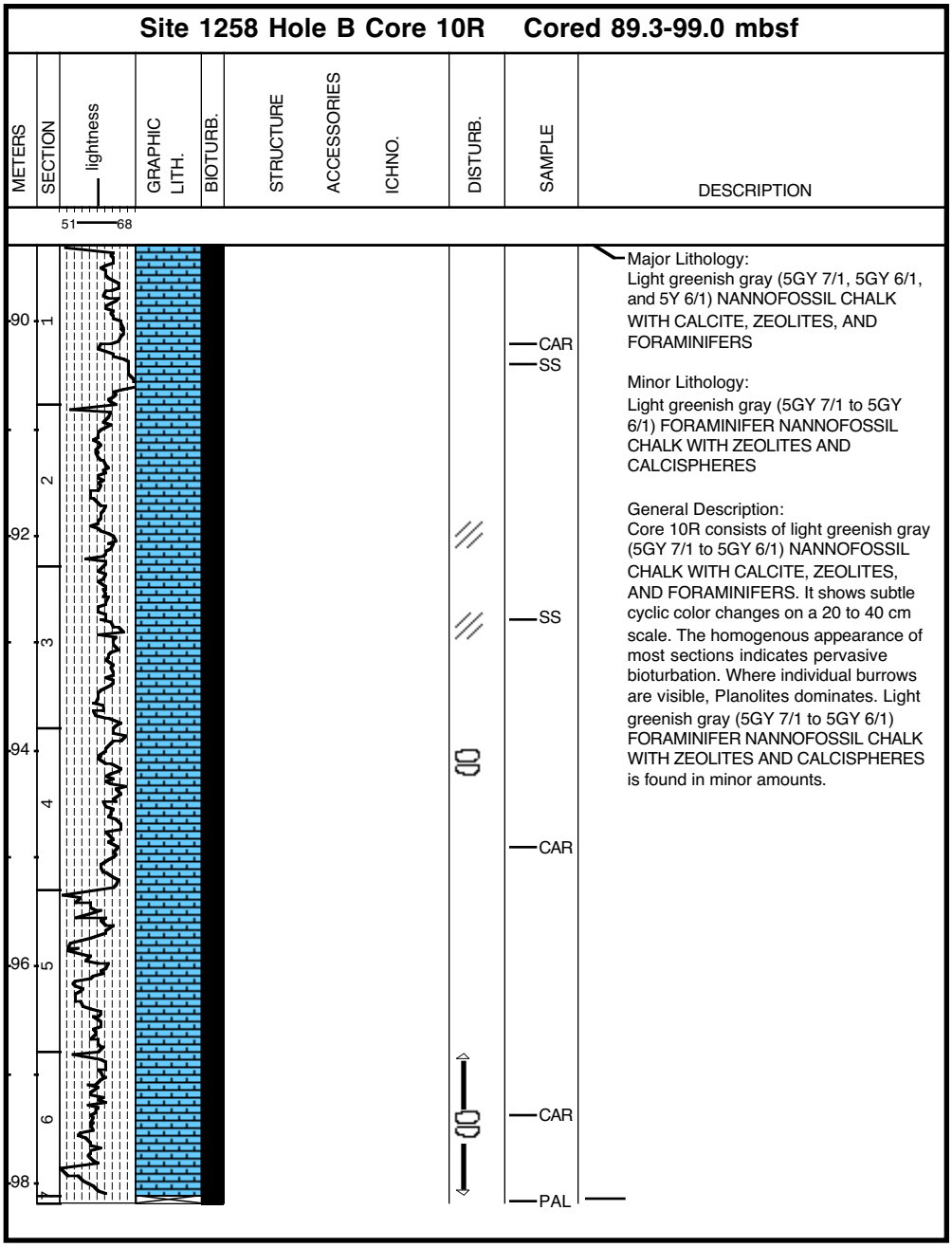
Core Photo


Site 1258 Hole B Core 8R Cored 70.1-79.7 mbsf
METERS
SECTION
lightness
47
68
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
72
74
76
78
1
2
3
4
5
6
7
CAR
SS
CAR
CAR
PAL
Major Lithology:
Light greenish gray (5Y 7/1, 5GY 7/2) to pale brown (2.5Y 7/2, 10YR 6/3) NANNOFOSSIL CHALK WITH CLAY, ZEOLITES AND FORAMINIFERS
General Description:
Core exhibits cyclic alternations on a scale of 20 - 50 cm from light greenish gray to pale brown. Ichnofabric ranges from homogeneous to burrow mottled, and bioturbation is interpretted to be pervasive throughout. Discrete traces are rare and are seen most commonly as light fill in the upper portions of the greenish gray intervals. Pale brown intervals are generally homogeneous.

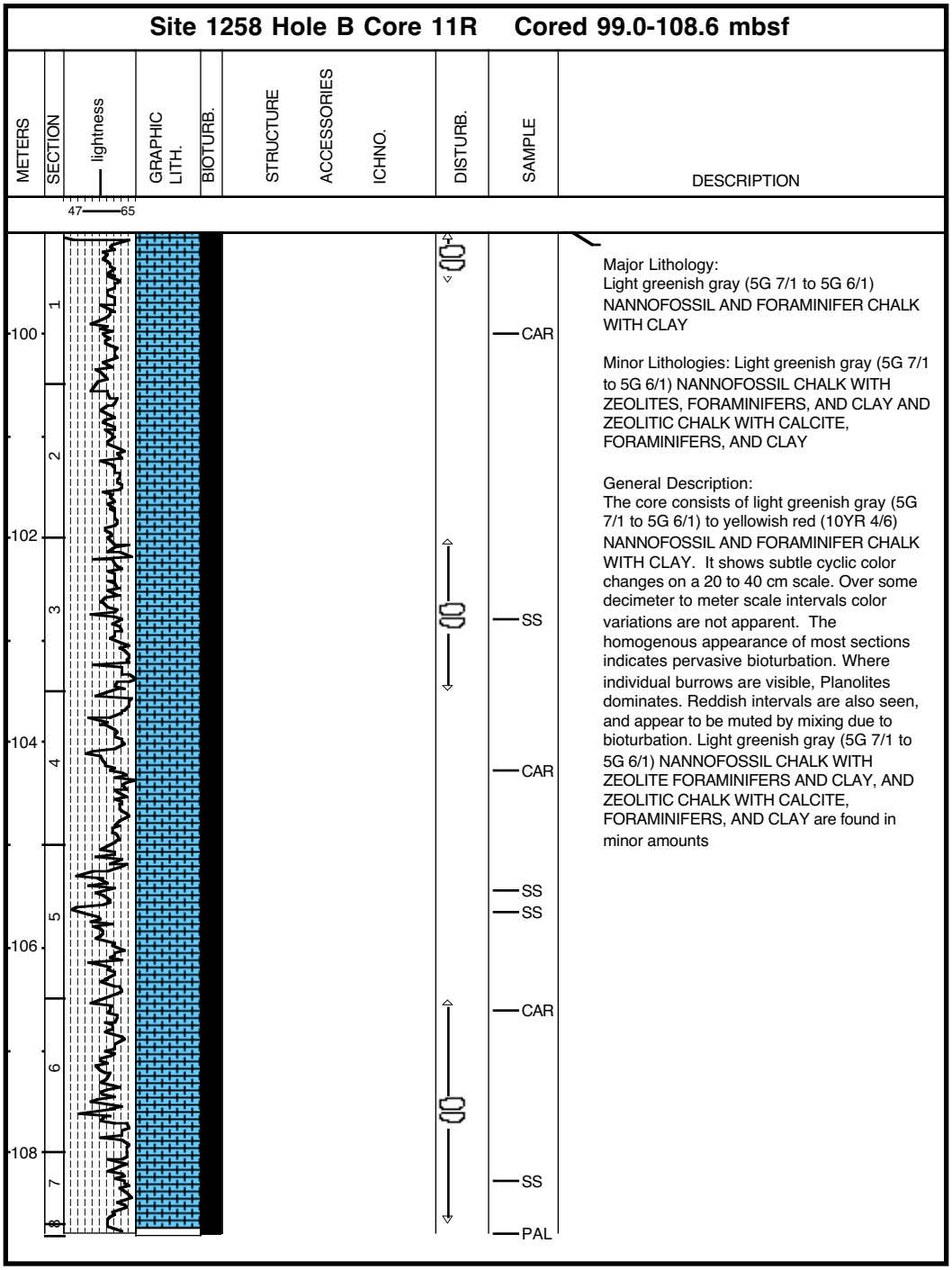
Core Photo


Site 1258 Hole B Core 9R Cored 79.7-89.3 mbsf
METERS
SECTION
lightness
40
64
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
80
82
84
86
88
1
2
3
4
5
6
7
CAR
CAR
CAR
XRD
SS
CAR
CAR
CAR
SS
PAL
Major Lithology:
Greenish gray (10Y 6/3) to light yellowish brown (10YR 6/4 and 2.5Y 6/3) NANNOFOSSIL CHALK WITH CALITE, ZEOLITES, AND FORAMINIFERS
Minor Lithology:
Greenish gray (10Y 6/3) ZEOLITIC CHALK WITH CALCITE, FORAMINIFERS, CLAY, AND NANNOFOSSILS
General Description:
The core consists of greenish gray (10Y 6/3) to light yellowish brown (10YR 6/4 and 2.5Y 6/3) NANNOFOSSIL CHALK WITH CALITE, ZEOLITES, AND FORAMINIFERS. Cyclic color variations are well developed through Section 3 and become more subtle through the rest of the core. The core has a mottled to massive appearance due to pervasive bioturbation. Where discrete burrows exist, Planolites is dominant.

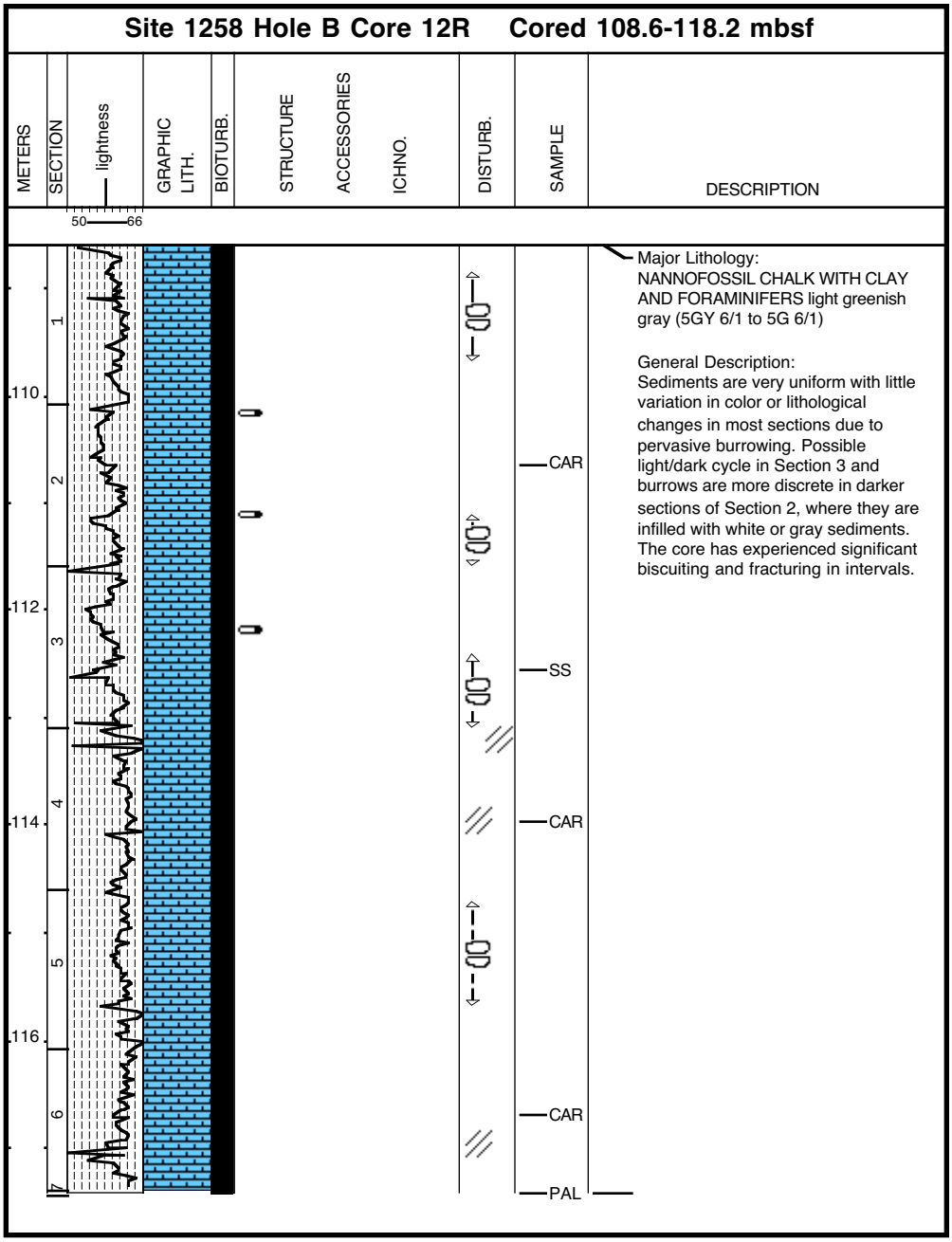
Core Photo


Site 1258 Hole B Core 10R Cored 89.3-99.0 mbsf
METERS
SECTION
lightness
51
68
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
90
92
94
96
98
1
2
3
4
5
6
CAR
SS
SS
CAR
CAR
PAL
Major Lithology:
Light greenish gray (5GY 7/1, 5GY 6/1, and 5Y 6/1) NANNOFOSSIL CHALK WITH CALCITE, ZEOLITES, AND FORAMINIFERS
Minor Lithology:
Light greenish gray (5GY 7/1 to 5GY 6/1) FORAMINIFER NANNOFOSSIL CHALK WITH ZEOLITES AND CALCISPHERES
General Description:
Core 10R consists of light greenish gray (5GY 7/1 to 5GY 6/1) NANNOFOSSIL CHALK WITH CALCITE, ZEOLITES, AND FORAMINIFERS. It shows subtle cyclic color changes on a 20 to 40 cm scale. The homogenous appearance of most sections indicates pervasive bioturbation. Where individual burrows are visible, Planolites dominates. Light greenish gray (5GY 7/1 to 5GY 6/1) FORAMINIFER NANNOFOSSIL CHALK WITH ZEOLITES AND CALCISPHERES is found in minor amounts.

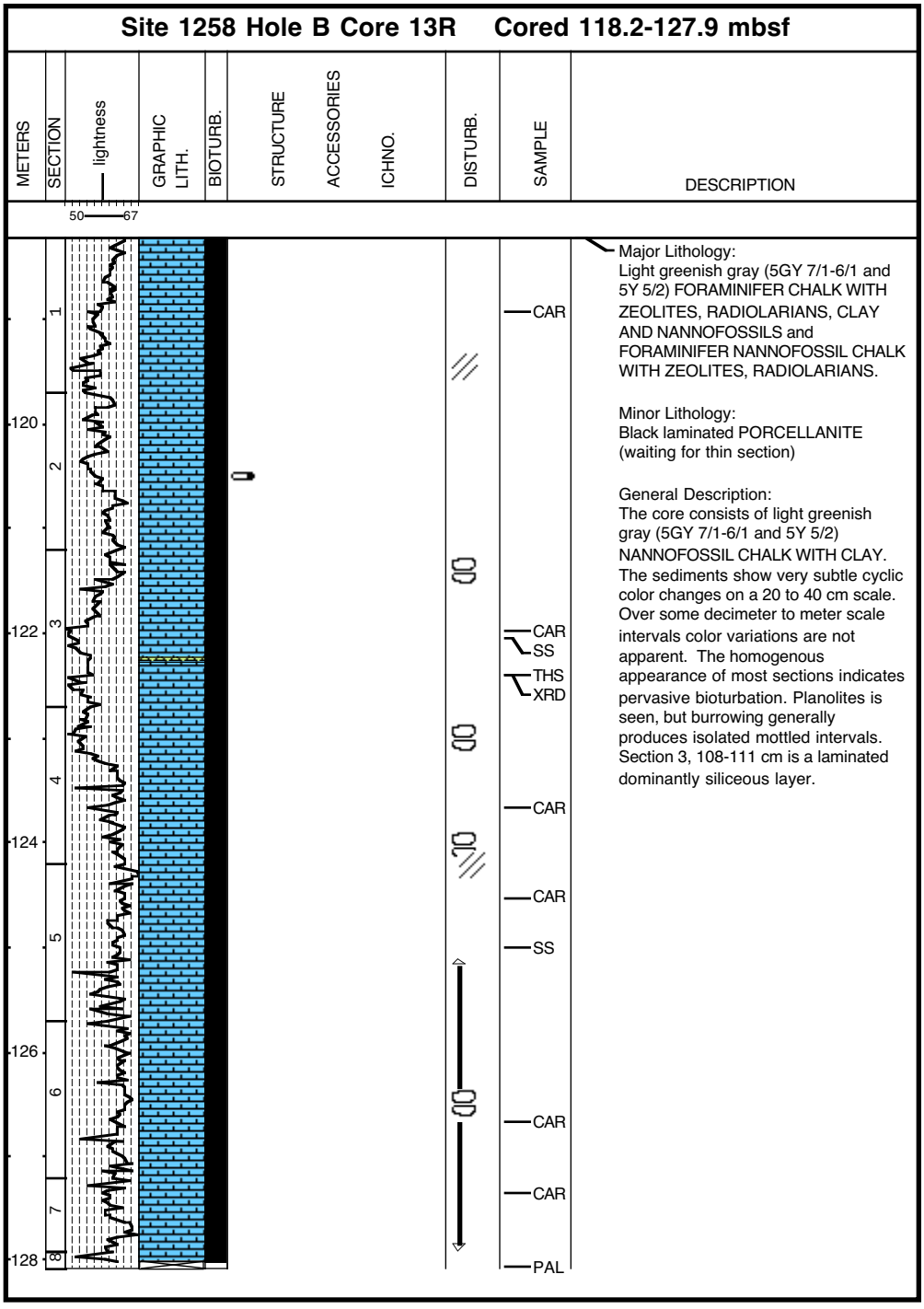
Core Photo


Site 1258 Hole B Core 11R Cored 99.0-108.6 mbsf
METERS
SECTION
lightness
47
65
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
100
102
104
106
108
1
2
3
4
5
6
7
CAR
SS
CAR
SS
SS
CAR
SS
PAL
Major Lithology:
Light greenish gray (5G 7/1 to 5G 6/1) NANNOFOSSIL AND FORAMINIFER CHALK WITH CLAY
Minor Lithologies: Light greenish gray (5G 7/1 to 5G 6/1) NANNOFOSSIL CHALK WITH ZEOLITES, FORAMINIFERS, AND CLAY AND ZEOLITIC CHALK WITH CALCITE, FORAMINIFERS, AND CLAY
General Description:
The core consists of light greenish gray (5G 7/1 to 5G 6/1) to yellowish red (10YR 4/6) NANNOFOSSIL AND FORAMINIFER CHALK WITH CLAY. It shows subtle cyclic color changes on a 20 to 40 cm scale. Over some decimeter to meter scale intervals color variations are not apparent. The homogenous appearance of most sections indicates pervasive bioturbation. Where individual burrows are visible, Planolites dominates. Reddish intervals are also seen, and appear to be muted by mixing due to bioturbation. Light greenish gray (5G 7/1 to 5G 6/1) NANNOFOSSIL CHALK WITH ZEOLITE FORAMINIFERS AND CLAY, AND ZEOLITIC CHALK WITH CALCITE, FORAMINIFERS, AND CLAY are found in minor amounts

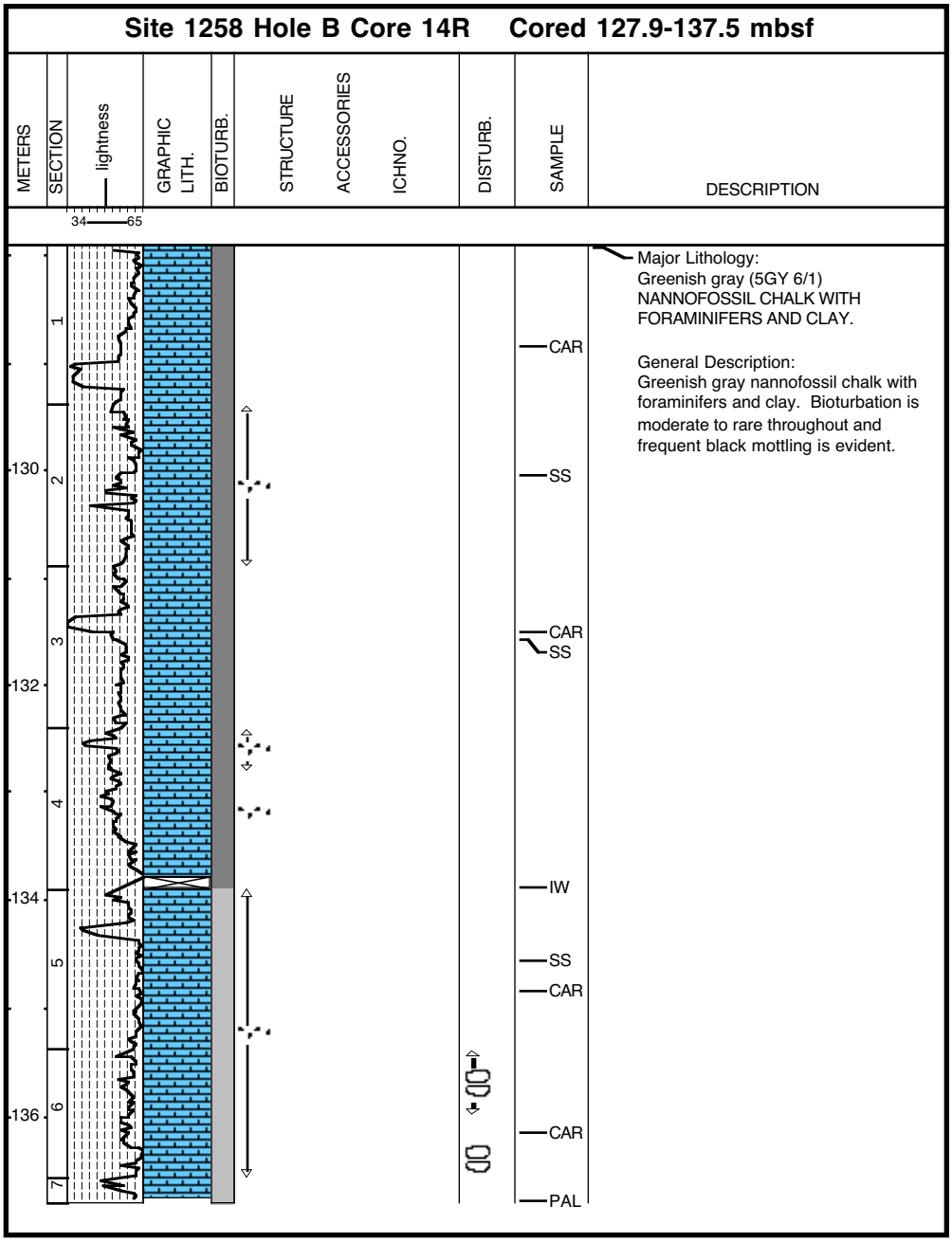
Core Photo


Site 1258 Hole B Core 12R Cored 108.6-118.2 mbsf
METERS
SECTION
lightness
50
66
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
110
112
114
116
1
2
3
4
5
6
7
CAR
SS
CAR
CAR
PAL
Major Lithology:
NANNOFOSSIL CHALK WITH CLAY AND FORAMINIFERS light greenish gray (5GY 6/1 to 5G 6/1)
General Description:
Sediments are very uniform with little variation in color or lithological changes in most sections due to pervasive burrowing. Possible light/dark cycle in Section 3 and burrows are more discrete in darker sections of Section 2, where they are infilled with white or gray sediments. The core has experienced significant biscuiting and fracturing in intervals.

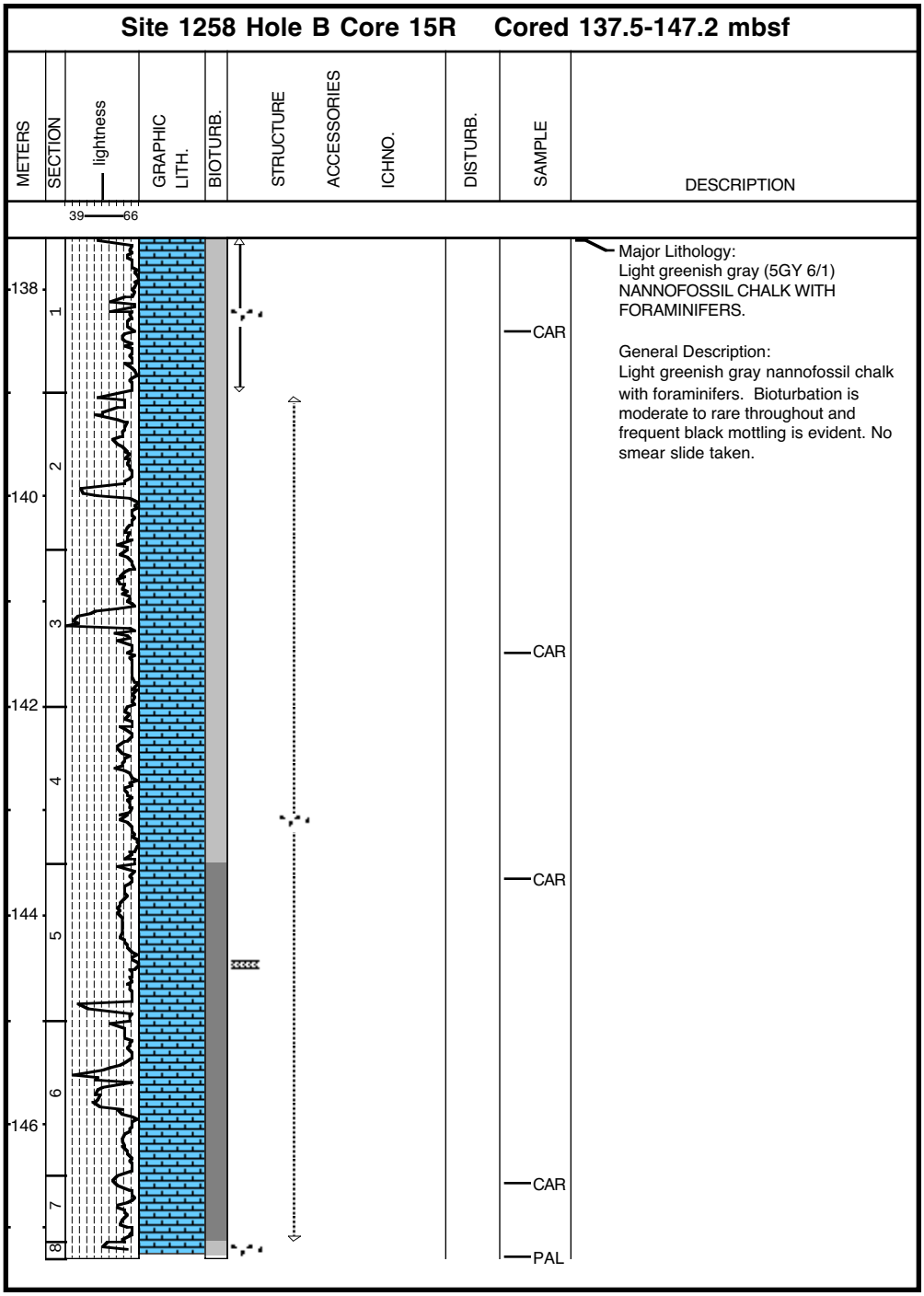
Core Photo


Site 1258 Hole B Core 13R Cored 118.2-127.9 mbsf
METERS
SECTION
lightness
50
67
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
120
122
124
126
128
1
2
3
4
5
6
7
CAR
CAR
SS
THS
XRD
CAR
CAR
SS
CAR
CAR
PAL
Major Lithology:
Light greenish gray (5GY 7/1-6/1 and 5Y 5/2) FORAMINIFER CHALK WITH ZEOLITES, RADIOLARIANS, CLAY AND NANNOFOSSILS and FORAMINIFER NANNOFOSSIL CHALK WITH ZEOLITES, RADIOLARIANS.
Minor Lithology:
Black laminated PORCELLANITE (waiting for thin section)
General Description:
The core consists of light greenish gray (5GY 7/1-6/1 and 5Y 5/2) NANNOFOSSIL CHALK WITH CLAY. The sediments show very subtle cyclic color changes on a 20 to 40 cm scale. Over some decimeter to meter scale intervals color variations are not apparent. The homogenous appearance of most sections indicates pervasive bioturbation. Planolites is seen, but burrowing generally produces isolated mottled intervals. Section 3, 108-111 cm is a laminated dominantly siliceous layer.

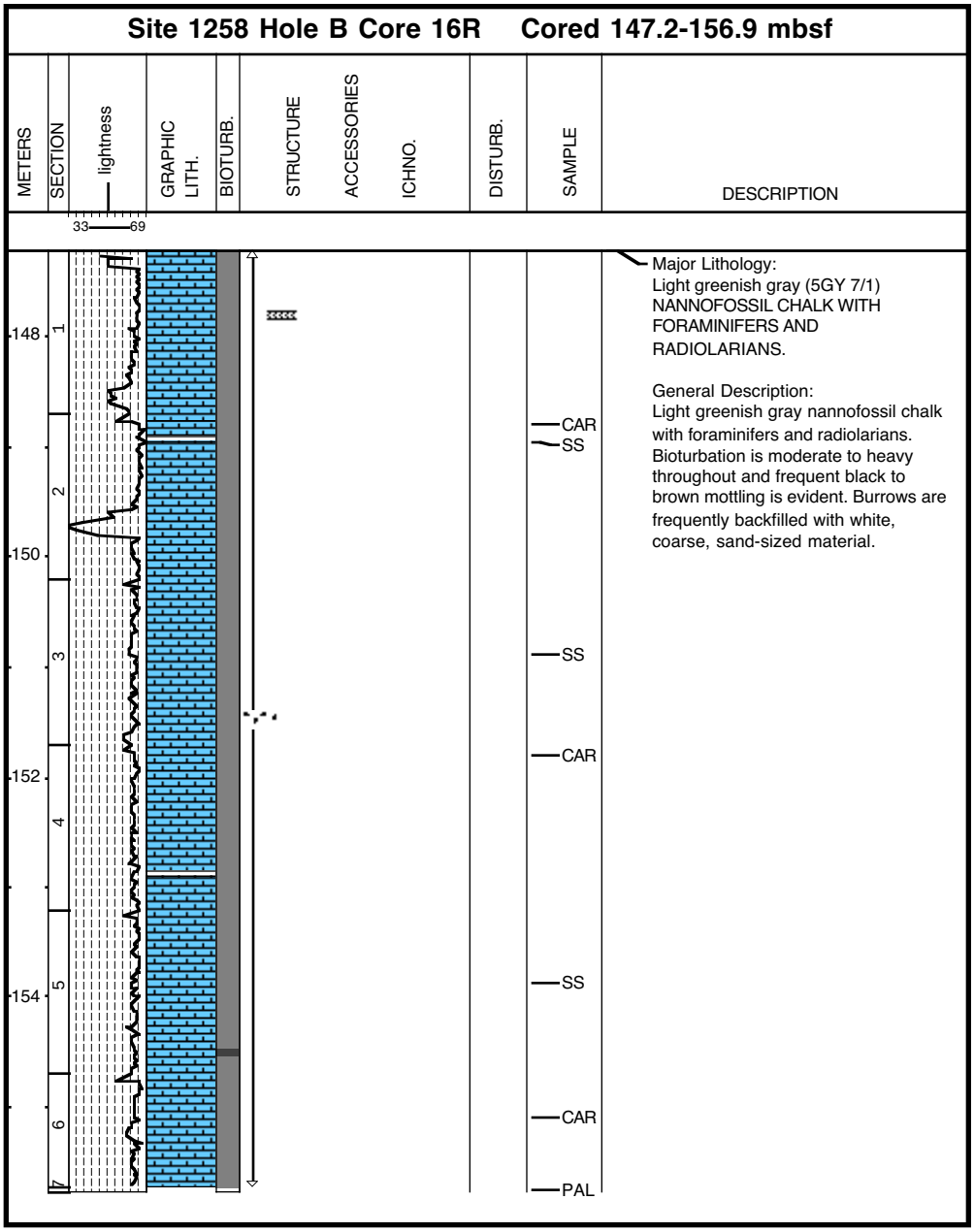
Core Photo


Site 1258 Hole B Core 14R Cored 127.9-137.5 mbsf
METERS
SECTION
lightness
34
65
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
130
132
134
136
1
2
3
4
5
6
7
CAR
SS
CAR
SS
IW
SS
CAR
CAR
PAL
Major Lithology:
Greenish gray (5GY 6/1)
NANNOFOSSIL CHALK WITH
FORAMINIFERS AND CLAY.
General Description:
Greenish gray nannofossil chalk with foraminifers and clay. Bioturbation is moderate to rare throughout and frequent black mottling is evident.

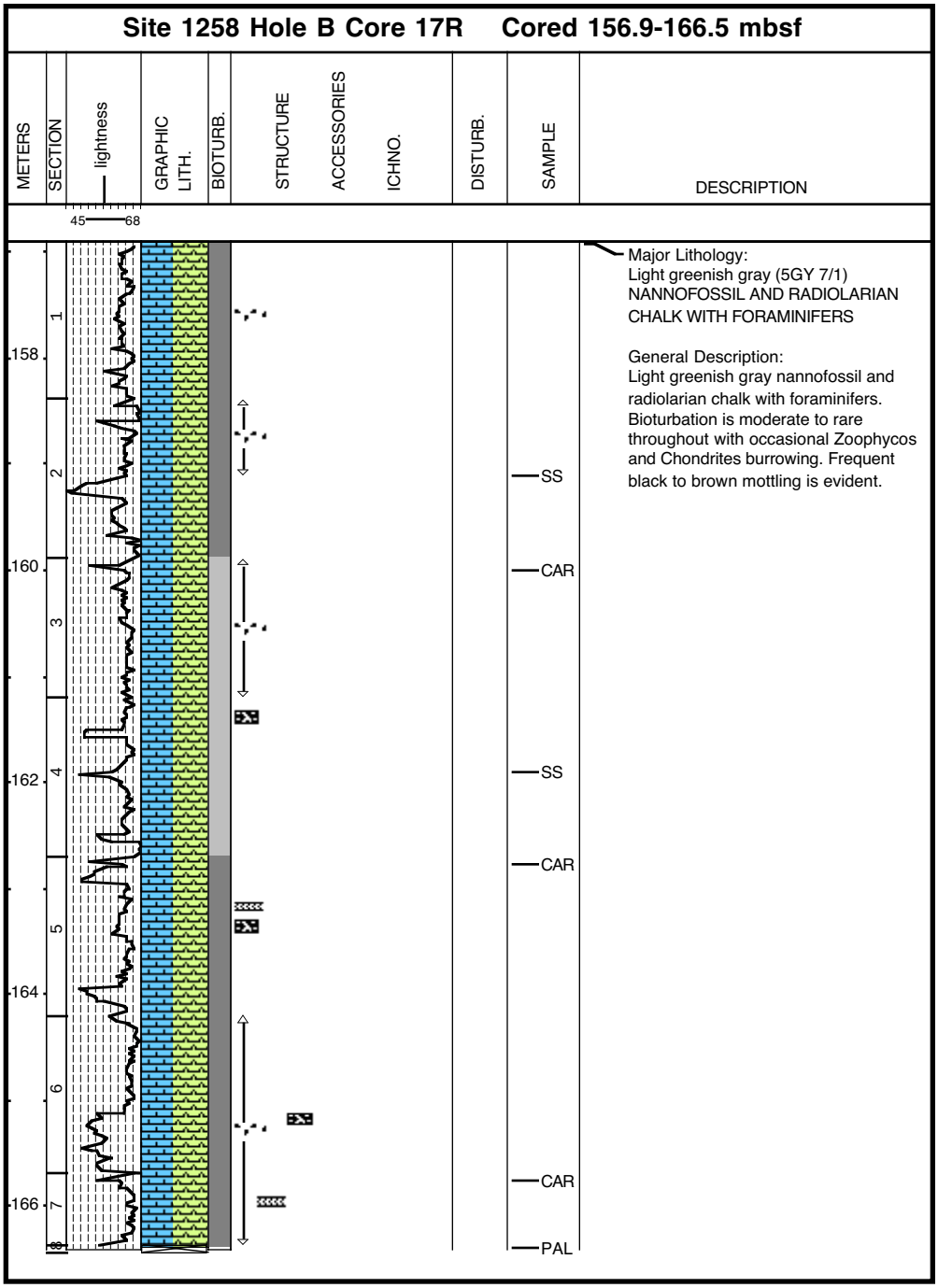
Core Photo


Site 1258 Hole B Core 15R Cored 137.5-147.2 mbsf
METERS
SECTION
lightness
39
66
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
138
140
142
144
146
1
2
3
4
5
6
7
8
CAR
CAR
CAR
CAR
PAL
Major Lithology:
Light greenish gray (5GY 6/1) NANNOFOSSIL CHALK WITH FORAMINIFERS.
General Description:
Light greenish gray nannofossil chalk with foraminifers. Bioturbation is moderate to rare throughout and frequent black mottling is evident. No smear slide taken.

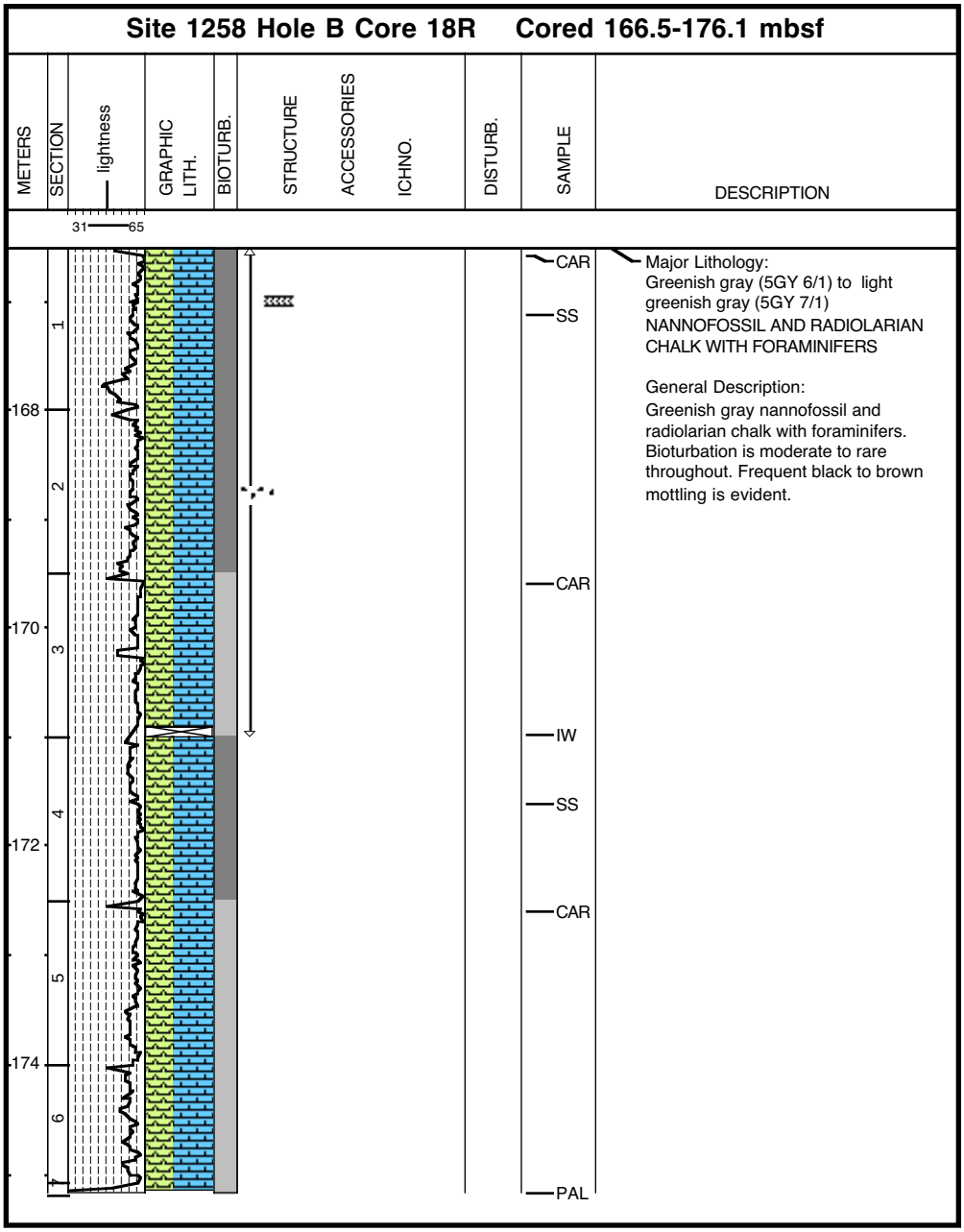
Core Photo


Site 1258 Hole B Core 16R Cored 147.2-156.9 mbsf
METERS
SECTION
lightness
33
69
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
148
150
152
154
1
2
3
4
5
6
7
CAR
SS
SS
CAR
SS
CAR
PAL
Major Lithology:
Light greenish gray (5GY 7/1) NANNOFOSSIL CHALK WITH FORAMINIFERS AND RADIOLARIANS.
General Description:
Light greenish gray nannofossil chalk with foraminifers and radiolarians. Bioturbation is moderate to heavy throughout and frequent black to brown mottling is evident. Burrows are frequently backfilled with white, coarse, sand-sized material.

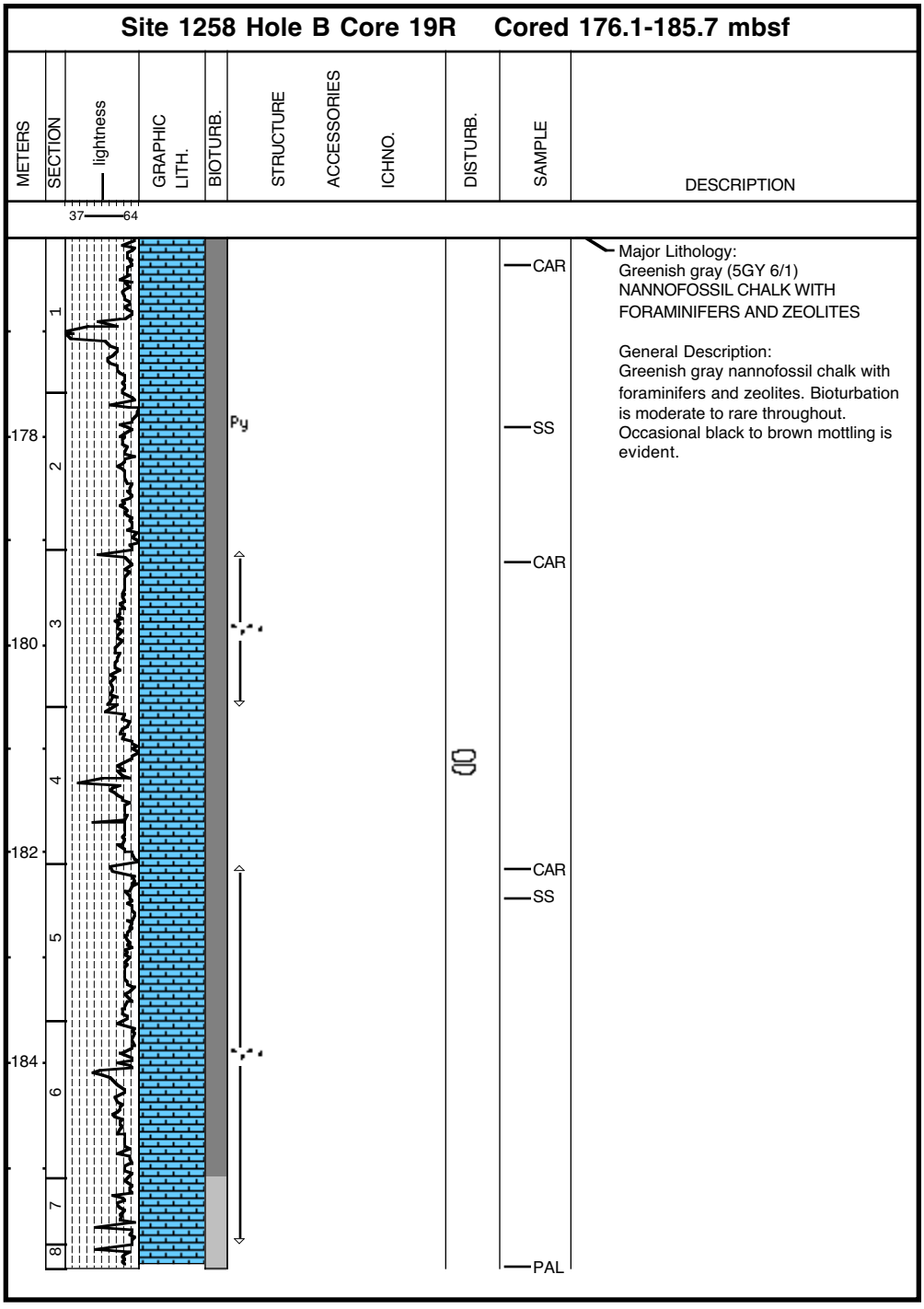
Core Photo


Site 1258 Hole B Core 17R Cored 156.9-166.5 mbsf
METERS
SECTION
lightness
45
68
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
158
160
162
164
166
1
2
3
4
5
6
7
SS
CAR
SS
CAR
CAR
PAL
Major Lithology:
Light greenish gray (5GY 7/1)
NANNOFOSSIL AND RADIOLARIAN
CHALK WITH FORAMINIFERS
General Description:
Light greenish gray nannofossil and radiolarian chalk with foraminifers. Bioturbation is moderate to rare throughout with occasional Zoophycos and Chondrites burrowing. Frequent black to brown mottling is evident.

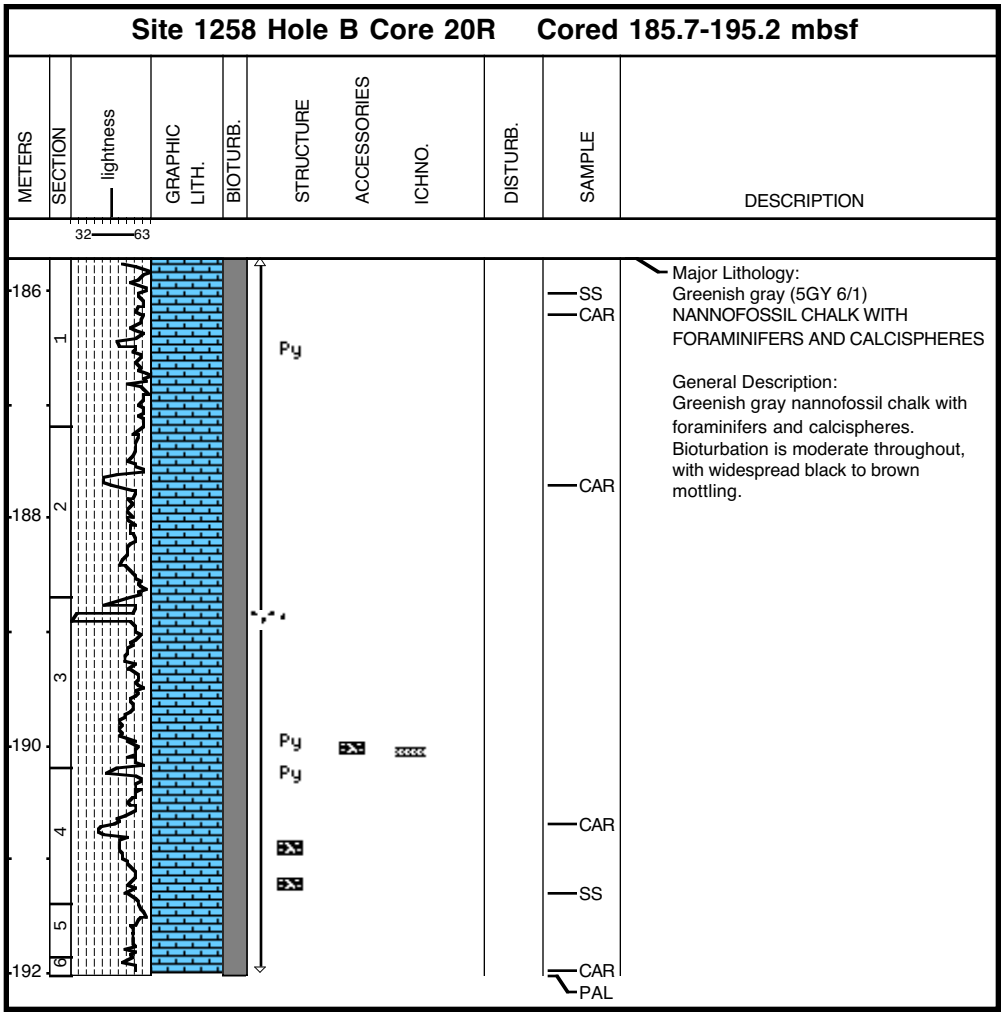
Core Photo


Site 1258 Hole B Core 18R Cored 166.5-176.1 mbsf
METERS
SECTION
lightness
31
65
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
168
170
172
174
1
2
3
4
5
6
7
CAR
SS
CAR
IW
SS
CAR
PAL
Major Lithology:
Greenish gray (5GY 6/1) to light greenish gray (5GY 7/1)
NANNOFOSSIL AND RADIOLARIAN CHALK WITH FORAMINIFERS
General Description:
Greenish gray nannofossil and radiolarian chalk with foraminifers. Bioturbation is moderate to rare throughout. Frequent black to brown mottling is evident.

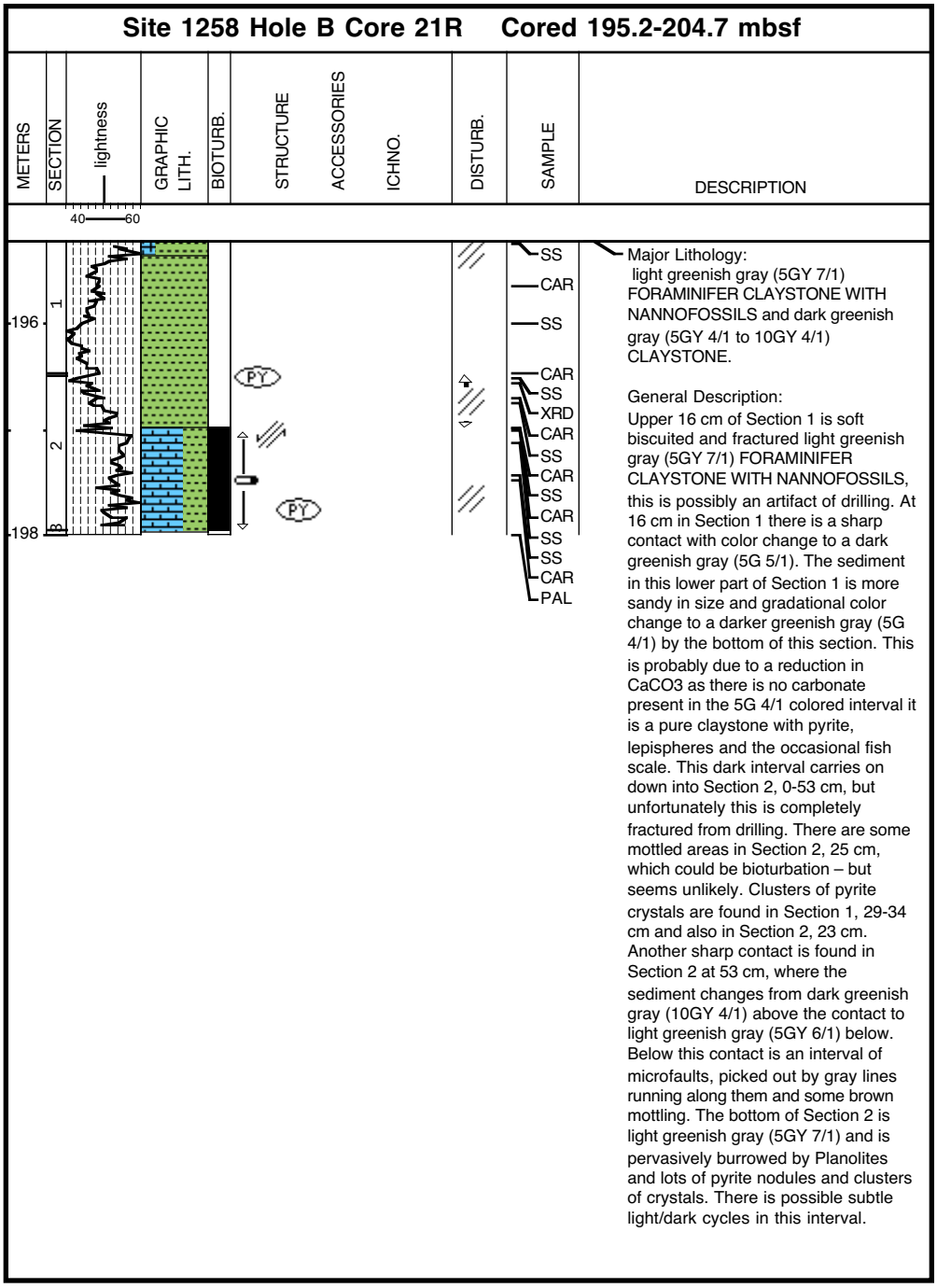
Core Photo


Site 1258 Hole B Core 19R Cored 176.1-185.7 mbsf
METERS
SECTION
lightness
37
64
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
178
180
182
184
1
2
3
4
5
6
7
8
Py
CAR
SS
CAR
CAR
SS
PAL
Major Lithology:
Greenish gray (5GY 6/1)
NANNOFOSSIL CHALK WITH
FORAMINIFERS AND ZEOLITES
General Description:
Greenish gray nannofossil chalk with foraminifers and zeolites. Bioturbation is moderate to rare throughout. Occasional black to brown mottling is evident.

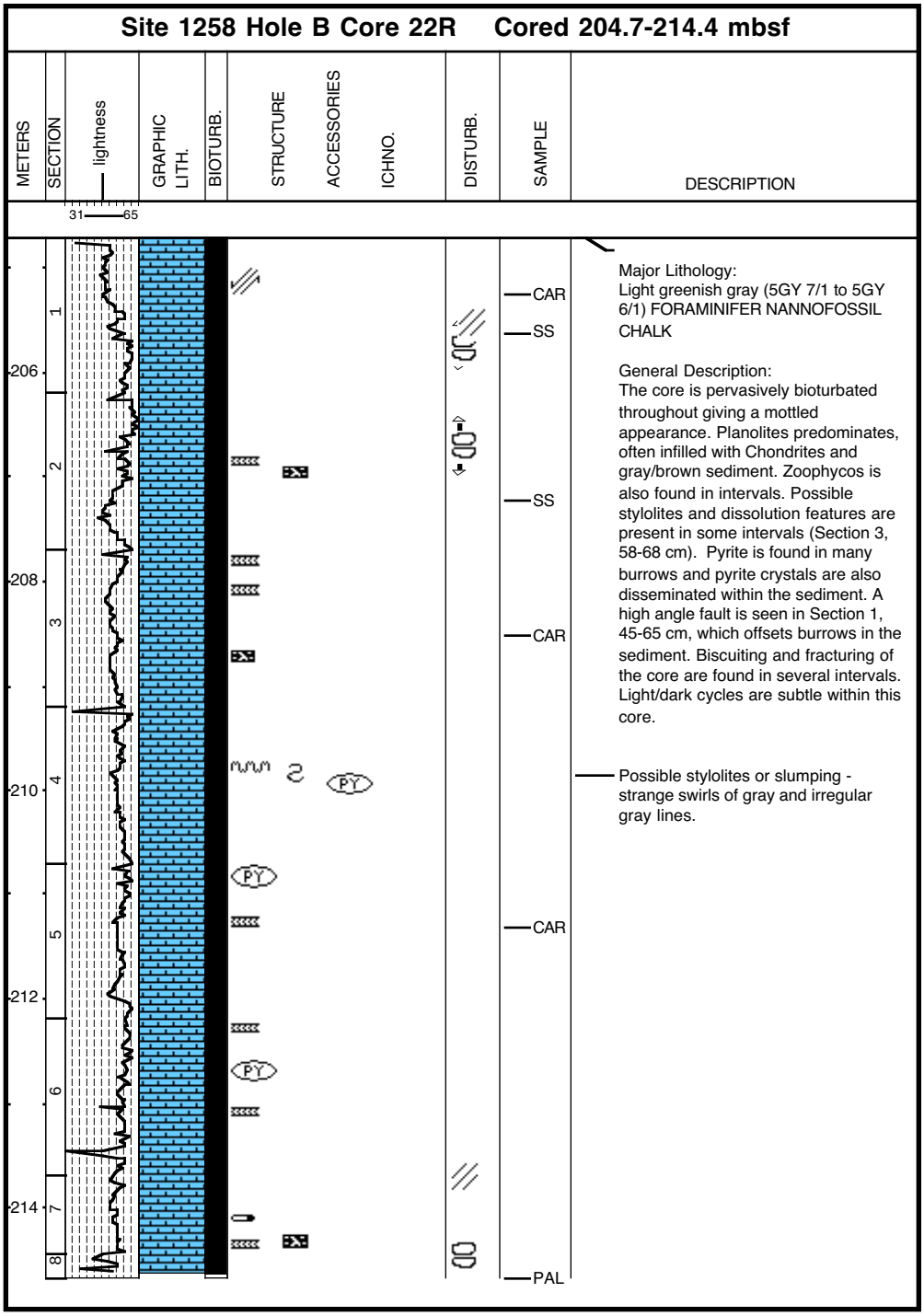
Core Photo


Site 1258 Hole B Core 20R Cored 185.7-195.2 mbsf
METERS
SECTION
lightness
32
63
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
186
188
190
192
1
2
3
4
5
6
Py
Py
Py
SS
CAR
CAR
CAR
SS
CAR
PAL
Major Lithology:
Greenish gray (5GY 6/1)
NANNOFOSSIL CHALK WITH
FORAMINIFERS AND CALCISPHERES
General Description:
Greenish gray nannofossil chalk with foraminifers and calcispheres. Bioturbation is moderate throughout, with widespread black to brown mottling.

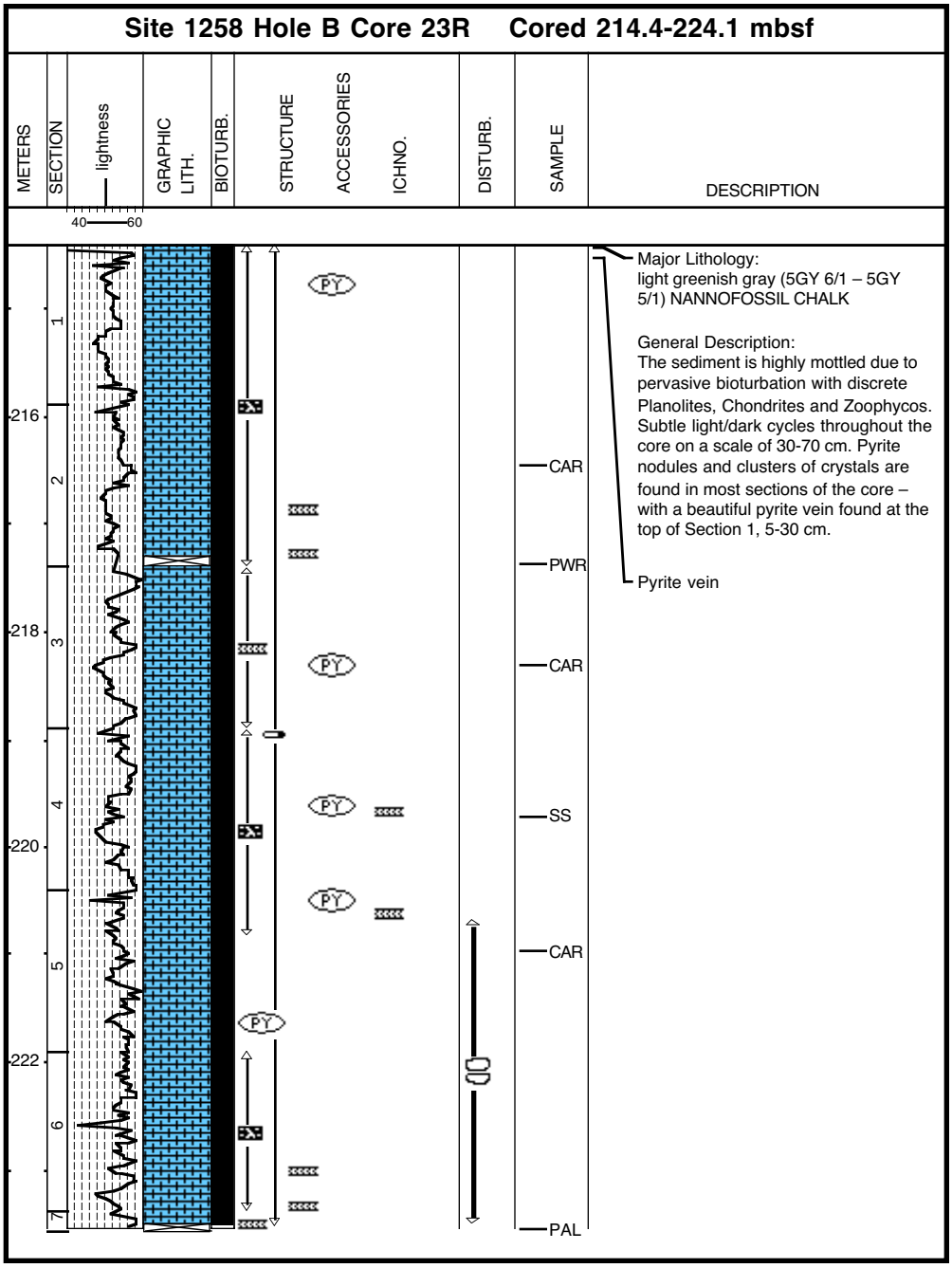
Core Photo


Site 1258 Hole B Core 21R Cored 195.2-204.7 mbsf
METERS
SECTION
lightness
40
60
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
196
198
1
2
B
PY
PY
SS
CAR
SS
CAR
SS
XRD
CAR
SS
CAR
SS
CAR
SS
SS
CAR
PAL
Major Lithology:
light greenish gray (5GY 7/1) FORAMINIFER CLAYSTONE WITH NANNOFOSSILS and dark greenish gray (5GY 4/1 to 10GY 4/1) CLAYSTONE.
General Description:
Upper 16 cm of Section 1 is soft biscuited and fractured light greenish gray (5GY 7/1) FORAMINIFER CLAYSTONE WITH NANNOFOSSILS, this is possibly an artifact of drilling. At 16 cm in Section 1 there is a sharp contact with color change to a dark greenish gray (5G 5/1). The sediment in this lower part of Section 1 is more sandy in size and gradational color change to a darker greenish gray (5G 4/1) by the bottom of this section. This is probably due to a reduction in CaCO3 as there is no carbonate present in the 5G 4/1 colored interval it is a pure claystone with pyrite, lepispheres and the occasional fish scale. This dark interval carries on down into Section 2, 0-53 cm, but unfortunately this is completely fractured from drilling. There are some mottled areas in Section 2, 25 cm, which could be bioturbation – but seems unlikely. Clusters of pyrite crystals are found in Section 1, 29-34 cm and also in Section 2, 23 cm. Another sharp contact is found in Section 2 at 53 cm, where the sediment changes from dark greenish gray (10GY 4/1) above the contact to light greenish gray (5GY 6/1) below. Below this contact is an interval of microfaults, picked out by gray lines running along them and some brown mottling. The bottom of Section 2 is light greenish gray (5GY 7/1) and is pervasively burrowed by Planolites and lots of pyrite nodules and clusters of crystals. There is possible subtle light/dark cycles in this interval.

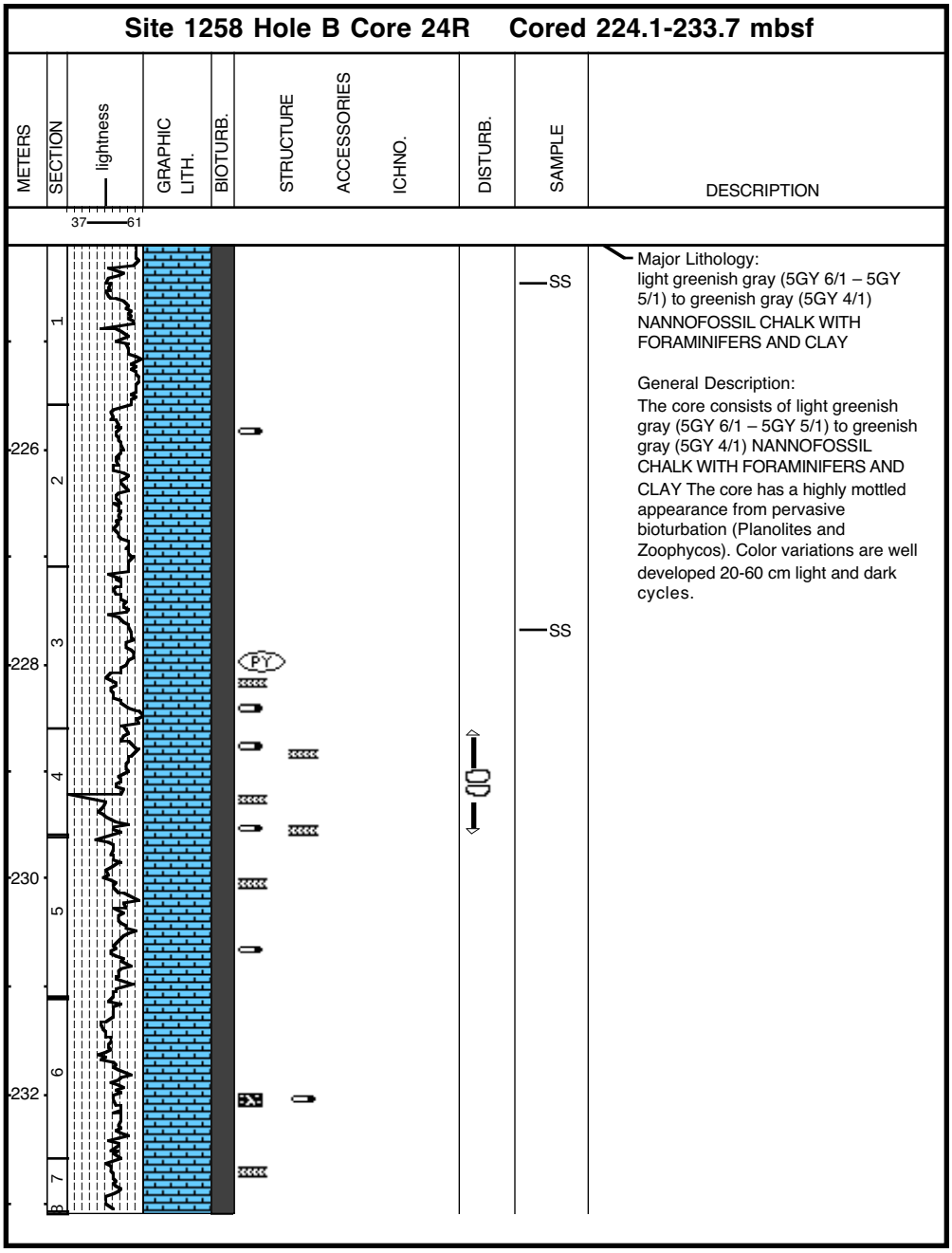
Core Photo


Site 1258 Hole B Core 22R Cored 204.7-214.4 mbsf
METERS
SECTION
lightness
31
65
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
206
208
210
212
214
1
2
3
4
5
6
7
8
CAR
SS
SS
CAR
CAR
PAL
PY
PY
PY
Major Lithology:
Light greenish gray (5GY 7/1 to 5GY 6/1) FORAMINIFER NANNOFOSSIL CHALK
General Description:
The core is pervasively bioturbated throughout giving a mottled appearance. Planolites predominates, often infilled with Chondrites and gray/brown sediment. Zoophycos is also found in intervals. Possible stylolites and dissolution features are present in some intervals (Section 3, 58-68 cm). Pyrite is found in many burrows and pyrite crystals are also disseminated within the sediment. A high angle fault is seen in Section 1, 45-65 cm, which offsets burrows in the sediment. Biscuiting and fracturing of the core are found in several intervals. Light/dark cycles are subtle within this core.
Possible stylolites or slumping - strange swirls of gray and irregular gray lines.

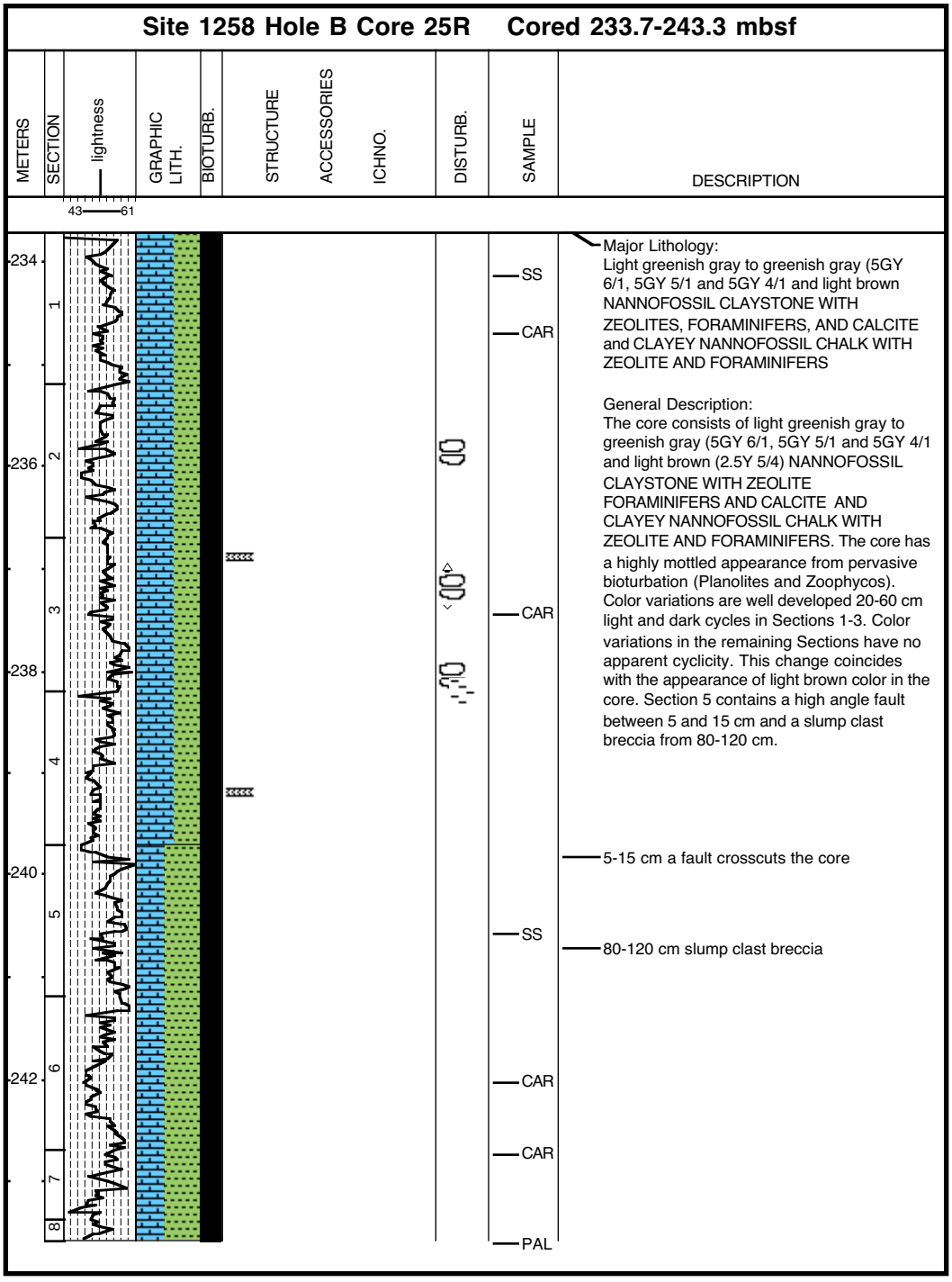
Core Photo


Site 1258 Hole B Core 23R Cored 214.4-224.1 mbsf
METERS
SECTION
lightness
40
60
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
216
218
220
222
1
2
3
4
5
6
7
PY
CAR
PWR
CAR
SS
CAR
PAL
Major Lithology:
light greenish gray (5GY 6/1 – 5GY 5/1) NANNOFOSSIL CHALK
General Description:
The sediment is highly mottled due to pervasive bioturbation with discrete Planolites, Chondrites and Zoophycos. Subtle light/dark cycles throughout the core on a scale of 30-70 cm. Pyrite nodules and clusters of crystals are found in most sections of the core – with a beautiful pyrite vein found at the top of Section 1, 5-30 cm.
Pyrite vein

Core Photo

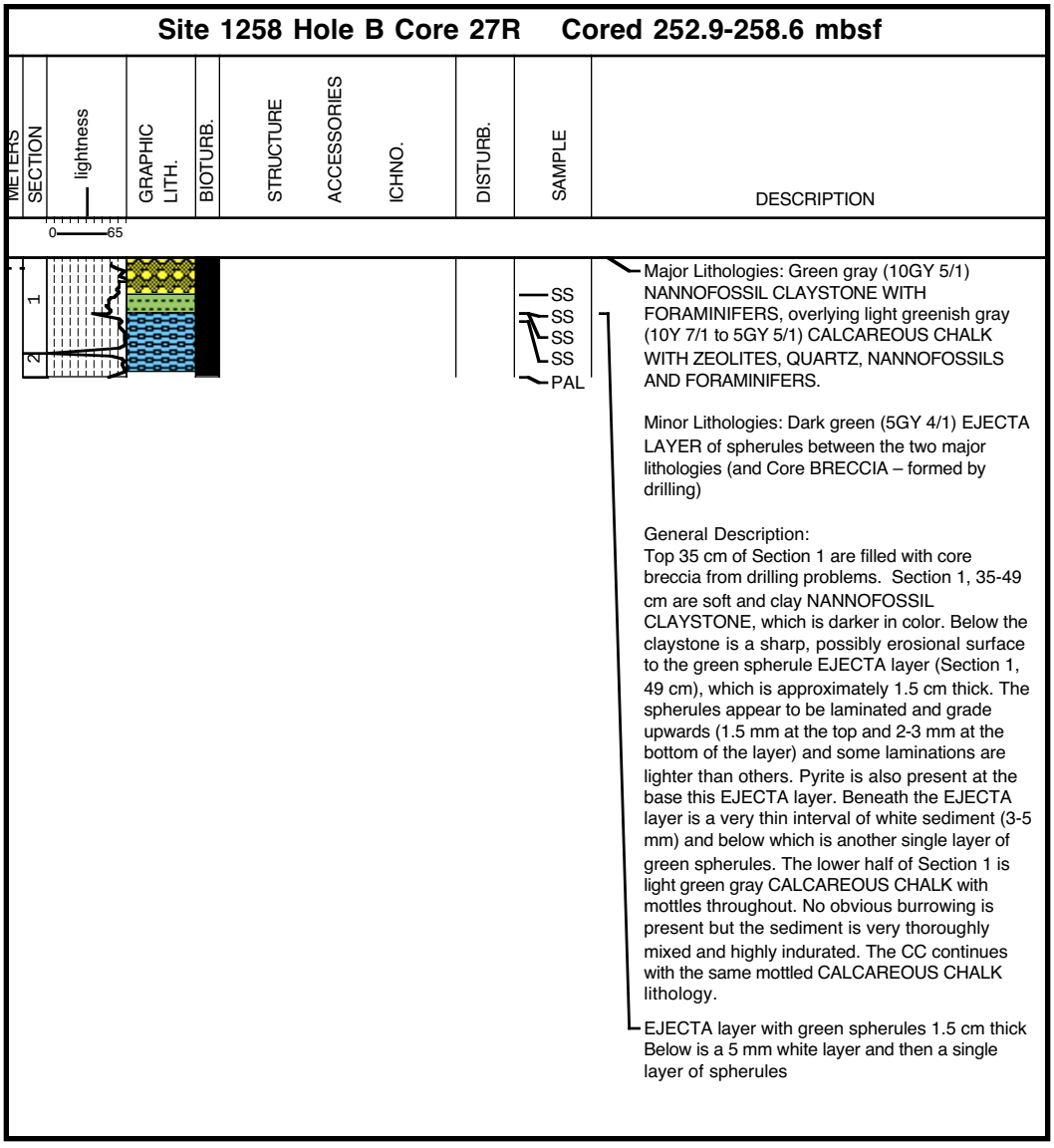

Site 1258 Hole B Core 24R Cored 224.1-233.7 mbsf
METERS
SECTION
lightness
37
61
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
226
228
230
232
1
2
3
4
5
6
7
CC
SS
SS
PY
Major Lithology:
light greenish gray (5GY 6/1 – 5GY 5/1) to greenish gray (5GY 4/1) NANNOFOSSIL CHALK WITH FORAMINIFERS AND CLAY
General Description:
The core consists of light greenish gray (5GY 6/1 – 5GY 5/1) to greenish gray (5GY 4/1) NANNOFOSSIL CHALK WITH FORAMINIFERS AND CLAY The core has a highly mottled appearance from pervasive bioturbation (Planolites and Zoophycos). Color variations are well developed 20-60 cm light and dark cycles.

Core Photo

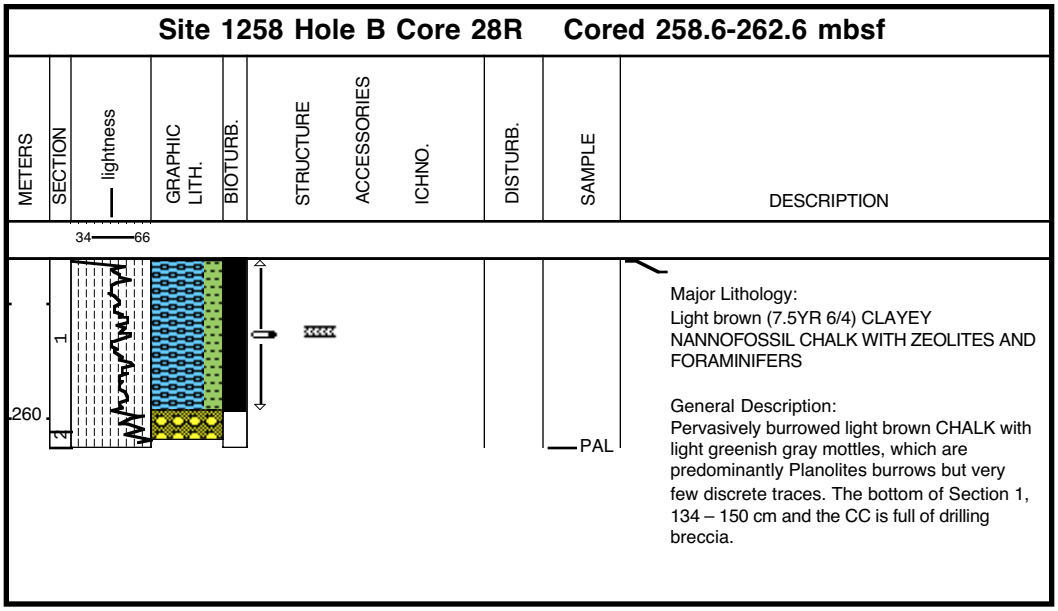


1258B-26R NO RECOVERY

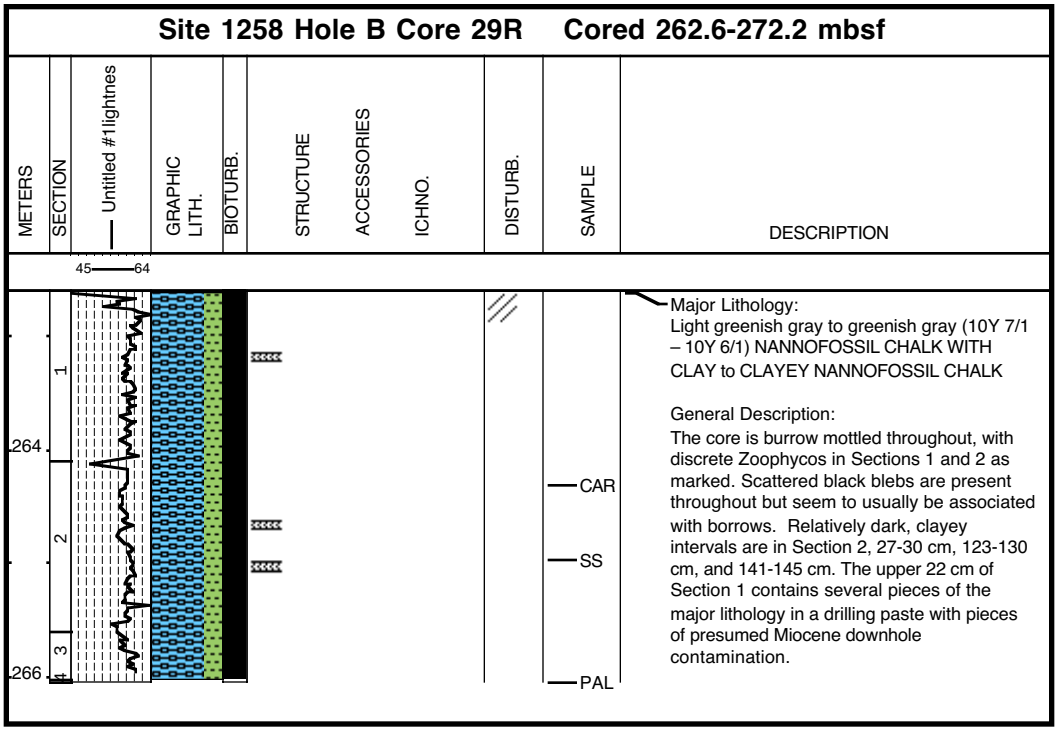
Core Photo


Site 1258 Hole B Core 27R Cored 252.9-258.6 mbsf
METERS
SECTION
lightness
0
65
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
1
2
SS
SS
SS
SS
PAL
Major Lithologies: Green gray (10GY 5/1) NANNOFOSSIL CLAYSTONE WITH FORAMINIFERS, overlying light greenish gray (10Y 7/1 to 5GY 5/1) CALCAREOUS CHALK WITH ZEOLITES, QUARTZ, NANNOFOSSILS AND FORAMINIFERS.
Minor Lithologies: Dark green (5GY 4/1) EJECTA LAYER of spherules between the two major lithologies (and Core BRECCIA – formed by drilling)
General Description:
Top 35 cm of Section 1 are filled with core breccia from drilling problems. Section 1, 35-49 cm are soft and clay NANNOFOSSIL CLAYSTONE, which is darker in color. Below the claystone is a sharp, possibly erosional surface to the green spherule EJECTA layer (Section 1, 49 cm), which is approximately 1.5 cm thick. The spherules appear to be laminated and grade upwards (1.5 mm at the top and 2-3 mm at the bottom of the layer) and some laminations are lighter than others. Pyrite is also present at the base this EJECTA layer. Beneath the EJECTA layer is a very thin interval of white sediment (3-5 mm) and below which is another single layer of green spherules. The lower half of Section 1 is light green gray CALCAREOUS CHALK with mottles throughout. No obvious burrowing is present but the sediment is very thoroughly mixed and highly indurated. The CC continues with the same mottled CALCAREOUS CHALK lithology.
EJECTA layer with green spherules 1.5 cm thick Below is a 5 mm white layer and then a single layer of spherules

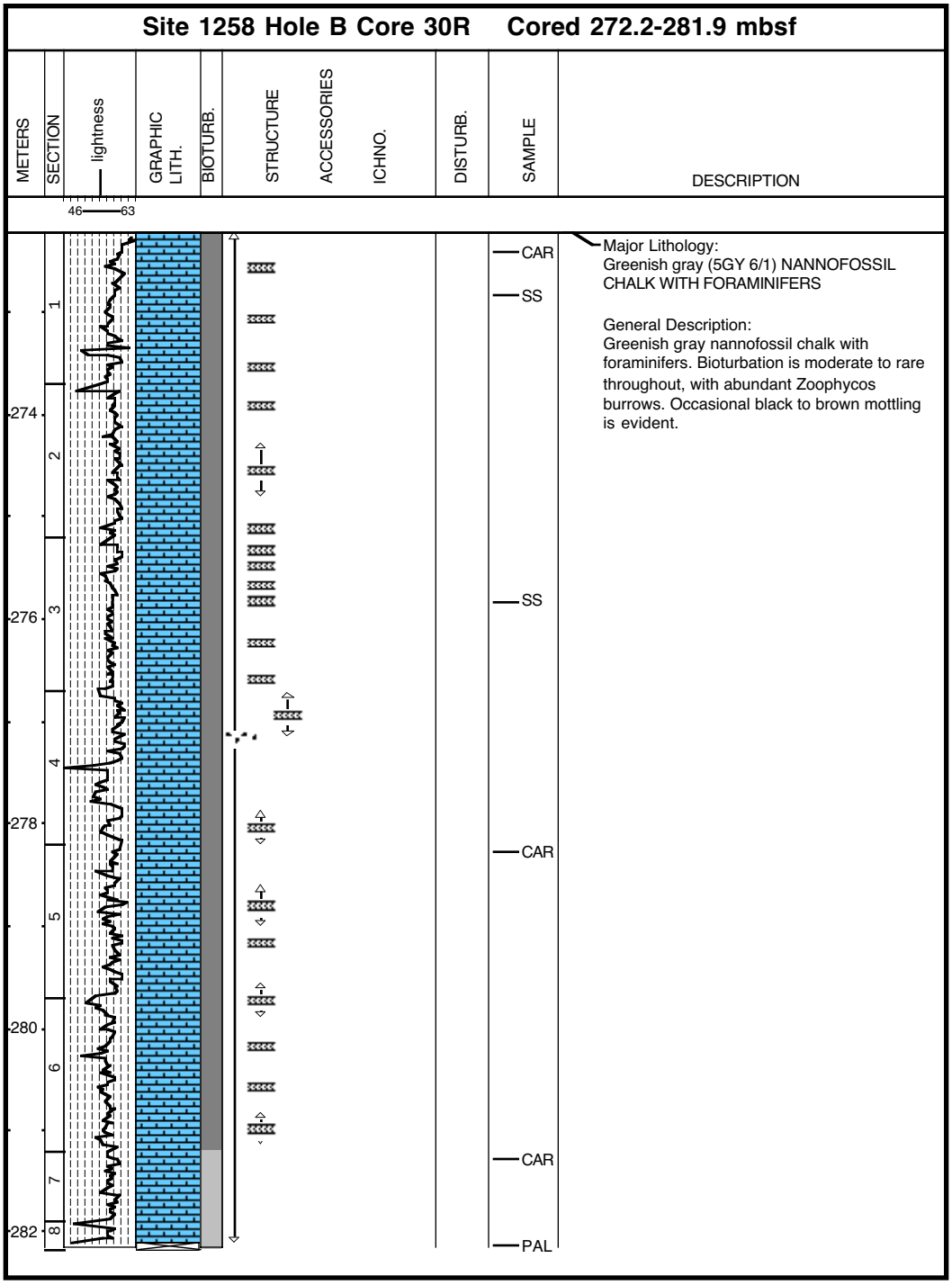
Core Photo


Site 1258 Hole B Core 28R Cored 258.6-262.6 mbsf
METERS
SECTION
lightness
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
34
66
260
1
2
PAL
Major Lithology:
Light brown (7.5YR 6/4) CLAYEY NANNOFOSSIL CHALK WITH ZEOLITES AND FORAMINIFERS
General Description:
Pervasively burrowed light brown CHALK with light greenish gray mottles, which are predominantly Planolites burrows but very few discrete traces. The bottom of Section 1, 134 – 150 cm and the CC is full of drilling breccia.

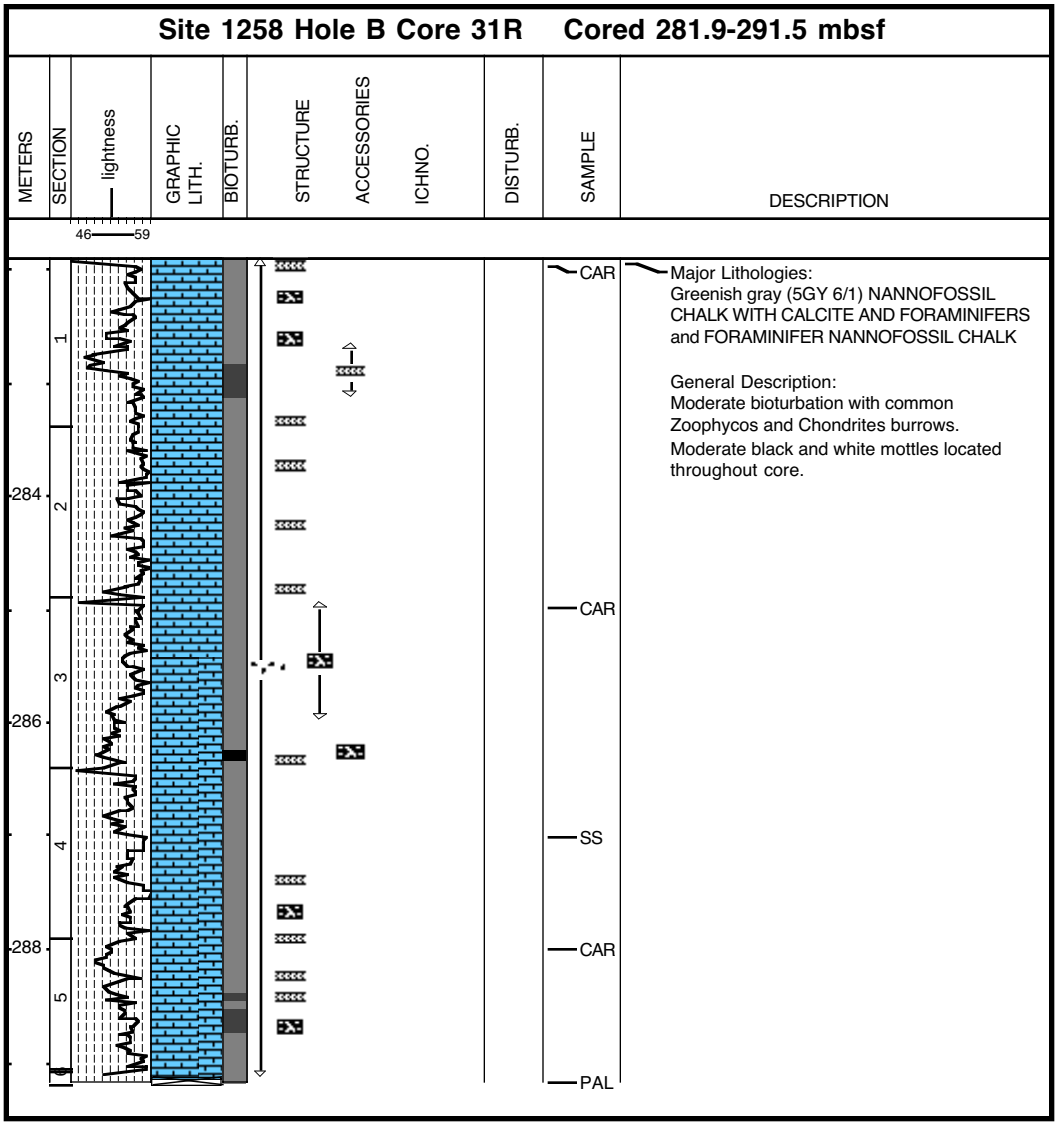
Core Photo


Site 1258 Hole B Core 29R Cored 262.6-272.2 mbsf
METERS
SECTION
Untitled #1lightnes
45
64
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
1
2
3
264
266
CAR
SS
PAL
Major Lithology:
Light greenish gray to greenish gray (10Y 7/1 – 10Y 6/1) NANNOFOSSIL CHALK WITH CLAY to CLAYEY NANNOFOSSIL CHALK
General Description:
The core is burrow mottled throughout, with discrete Zoophycos in Sections 1 and 2 as marked. Scattered black blebs are present throughout but seem to usually be associated with borrows. Relatively dark, clayey intervals are in Section 2, 27-30 cm, 123-130 cm, and 141-145 cm. The upper 22 cm of Section 1 contains several pieces of the major lithology in a drilling paste with pieces of presumed Miocene downhole contamination.

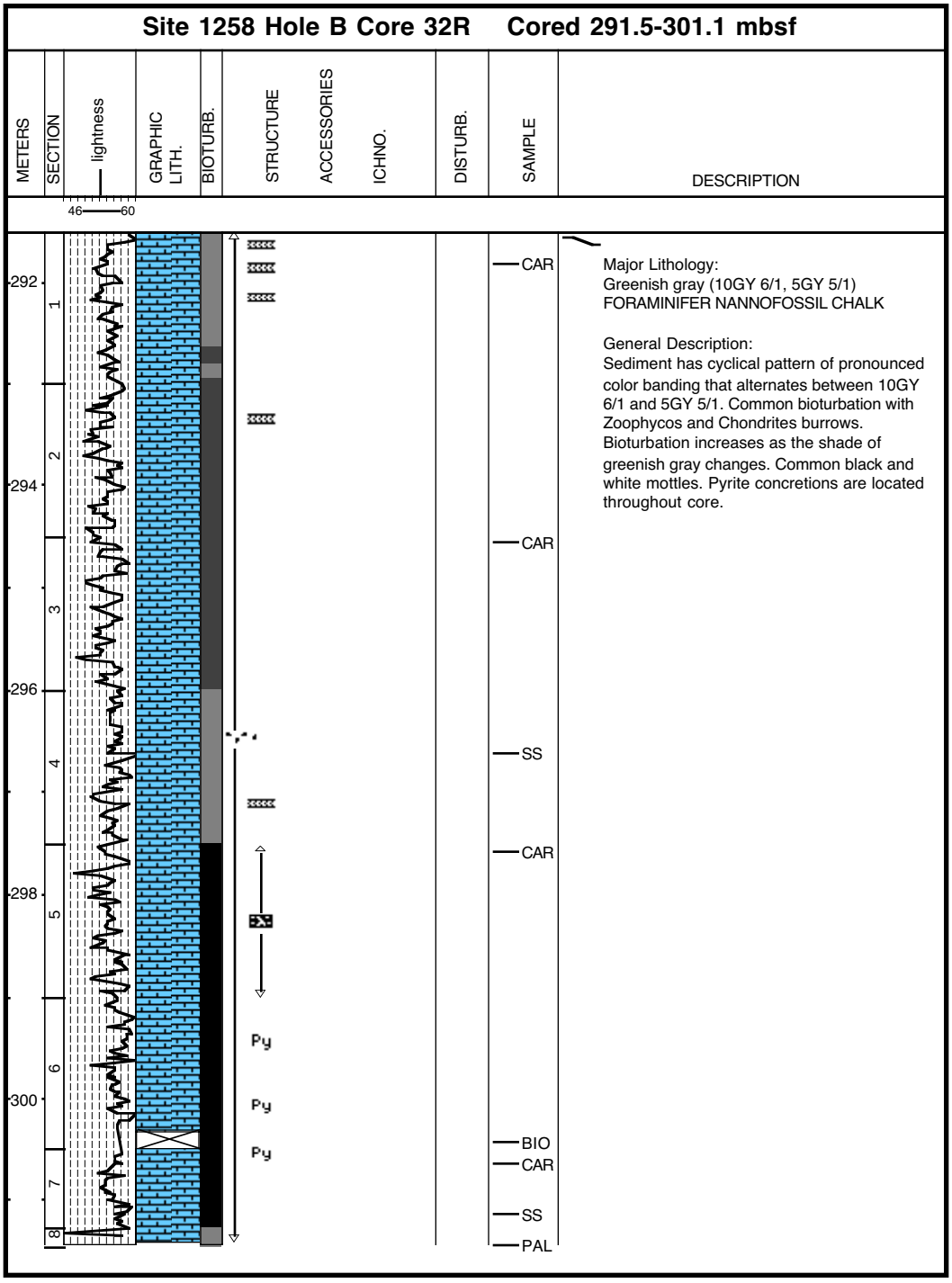
Core Photo


Site 1258 Hole B Core 30R Cored 272.2-281.9 mbsf
METERS
SECTION
lightness
46
63
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
274
276
278
280
282
1
2
3
4
5
6
7
8
CAR
SS
SS
CAR
CAR
PAL
Major Lithology:
Greenish gray (5GY 6/1) NANNOFOSSIL CHALK WITH FORAMINIFERS
General Description:
Greenish gray nannofossil chalk with foraminifers. Bioturbation is moderate to rare throughout, with abundant Zoophycos burrows. Occasional black to brown mottling is evident.

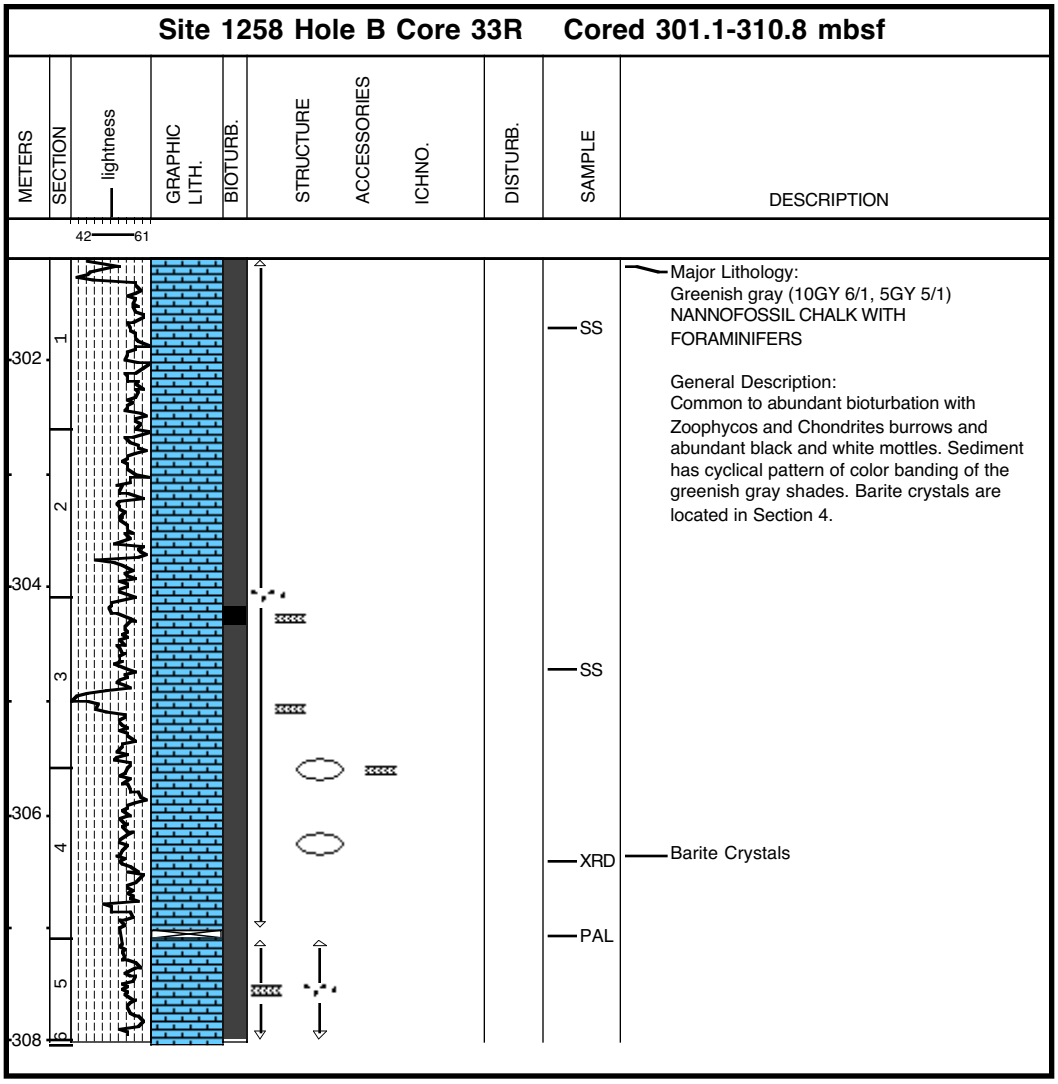
Core Photo


Site 1258 Hole B Core 31R Cored 281.9-291.5 mbsf
METERS
SECTION
lightness
46
59
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
284
286
288
1
2
3
4
5
CAR
CAR
SS
CAR
PAL
Major Lithologies:
Greenish gray (5GY 6/1) NANNOFOSSIL CHALK WITH CALCITE AND FORAMINIFERS and FORAMINIFER NANNOFOSSIL CHALK
General Description:
Moderate bioturbation with common Zoophycos and Chondrites burrows.
Moderate black and white mottles located throughout core.

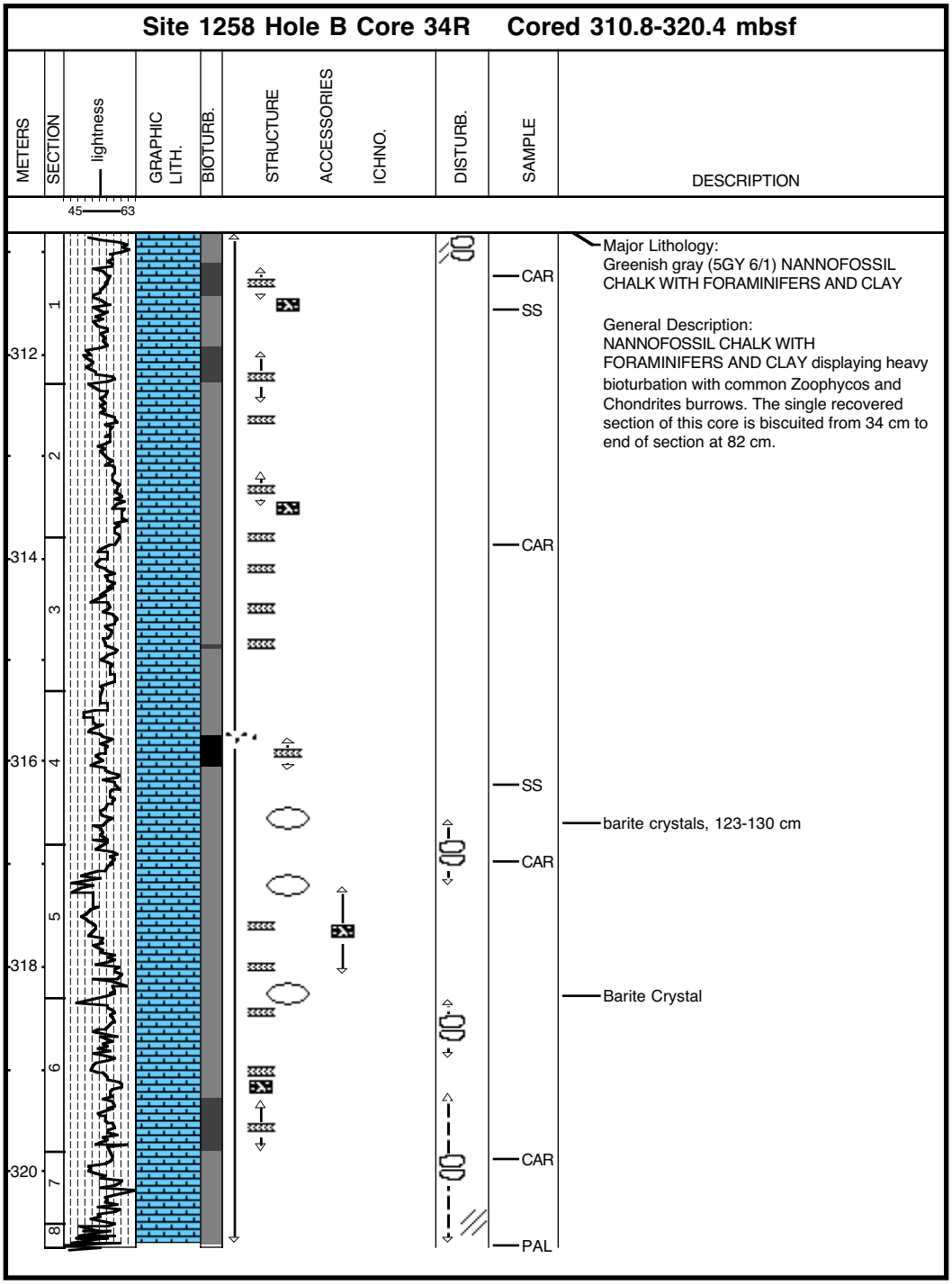
Core Photo


Site 1258 Hole B Core 32R Cored 291.5-301.1 mbsf
METERS
SECTION
lightness
46
60
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
292
294
296
298
300
1
2
3
4
5
6
7
8
CAR
CAR
SS
CAR
Py
Py
Py
BIO
CAR
SS
PAL
Major Lithology:
Greenish gray (10GY 6/1, 5GY 5/1)
FORAMINIFER NANNOFOSSIL CHALK
General Description:
Sediment has cyclical pattern of pronounced color banding that alternates between 10GY 6/1 and 5GY 5/1. Common bioturbation with Zoophycos and Chondrites burrows. Bioturbation increases as the shade of greenish gray changes. Common black and white mottles. Pyrite concretions are located throughout core.

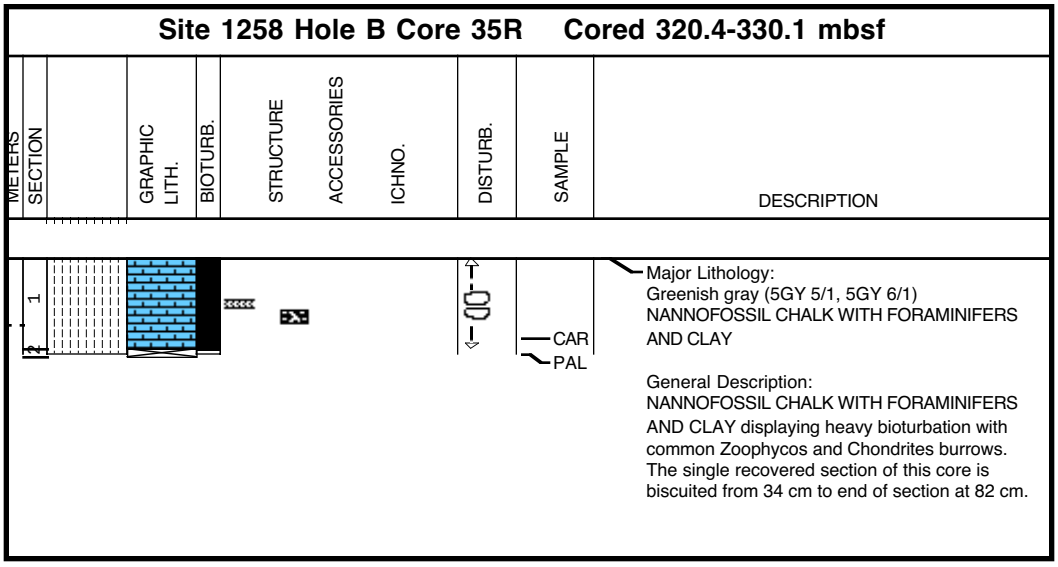
Core Photo


Site 1258 Hole B Core 33R Cored 301.1-310.8 mbsf
METERS
SECTION
lightness
42
61
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
302
304
306
308
1
2
3
4
5
6
SS
SS
XRD
PAL
Major Lithology:
Greenish gray (10GY 6/1, 5GY 5/1)
NANNOFOSSIL CHALK WITH
FORAMINIFERS
General Description:
Common to abundant bioturbation with
Zoophycos and Chondrites burrows and
abundant black and white mottles. Sediment
has cyclical pattern of color banding of the
greenish gray shades. Barite crystals are
located in Section 4.
Barite Crystals

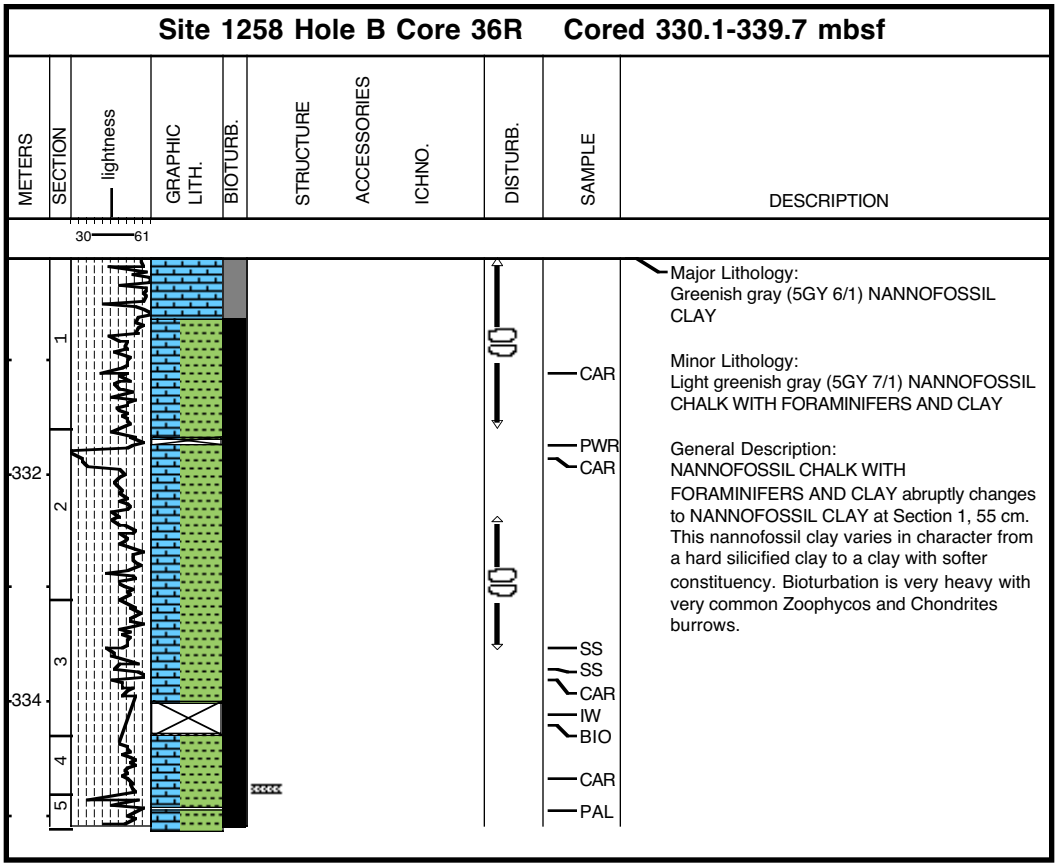
Core Photo


Site 1258 Hole B Core 34R Cored 310.8-320.4 mbsf
METERS
SECTION
lightness
45
63
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
312
314
316
318
320
1
2
3
4
5
6
7
8
CAR
SS
CAR
SS
CAR
CAR
PAL
Major Lithology:
Greenish gray (5GY 6/1) NANNOFOSSIL CHALK WITH FORAMINIFERS AND CLAY
General Description:
NANNOFOSSIL CHALK WITH FORAMINIFERS AND CLAY displaying heavy bioturbation with common Zoophycos and Chondrites burrows. The single recovered section of this core is biscuited from 34 cm to end of section at 82 cm.
barite crystals, 123-130 cm
Barite Crystal

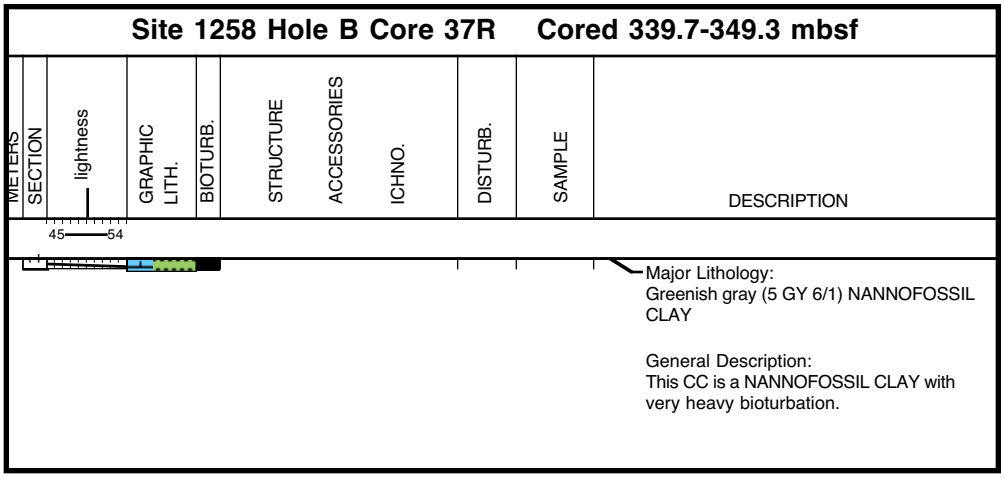
Core Photo


Site 1258 Hole B Core 35R Cored 320.4-330.1 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
1
2
CAR
PAL
Major Lithology:
Greenish gray (5GY 5/1, 5GY 6/1)
NANNOFOSSIL CHALK WITH FORAMINIFERS AND CLAY
General Description:
NANNOFOSSIL CHALK WITH FORAMINIFERS AND CLAY displaying heavy bioturbation with common Zoophycos and Chondrites burrows. The single recovered section of this core is biscuited from 34 cm to end of section at 82 cm.

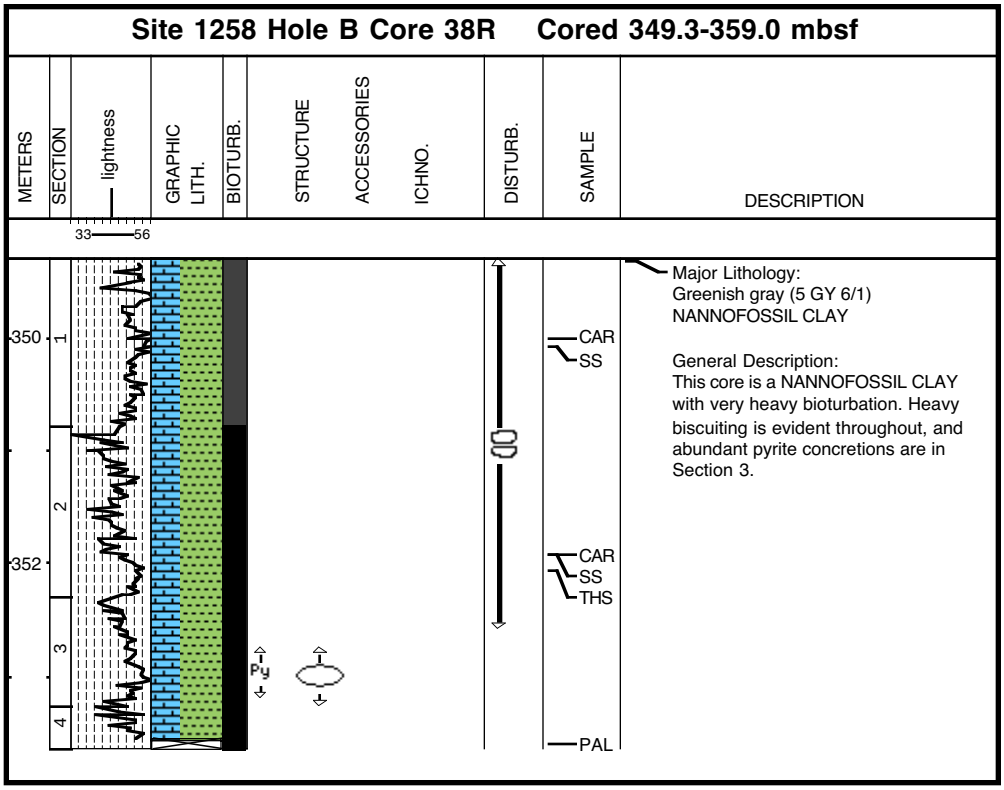
Core Photo


Site 1258 Hole B Core 36R Cored 330.1-339.7 mbsf
METERS
SECTION
lightness
30
61
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
332
334
1
2
3
4
5
CAR
PWR
CAR
SS
SS
CAR
IW
BIO
CAR
PAL
Major Lithology:
Greenish gray (5GY 6/1) NANNOFOSSIL CLAY
Minor Lithology:
Light greenish gray (5GY 7/1) NANNOFOSSIL CHALK WITH FORAMINIFERS AND CLAY
General Description:
NANNOFOSSIL CHALK WITH FORAMINIFERS AND CLAY abruptly changes to NANNOFOSSIL CLAY at Section 1, 55 cm. This nannofossil clay varies in character from a hard silicified clay to a clay with softer constituency. Bioturbation is very heavy with very common Zoophycos and Chondrites burrows.

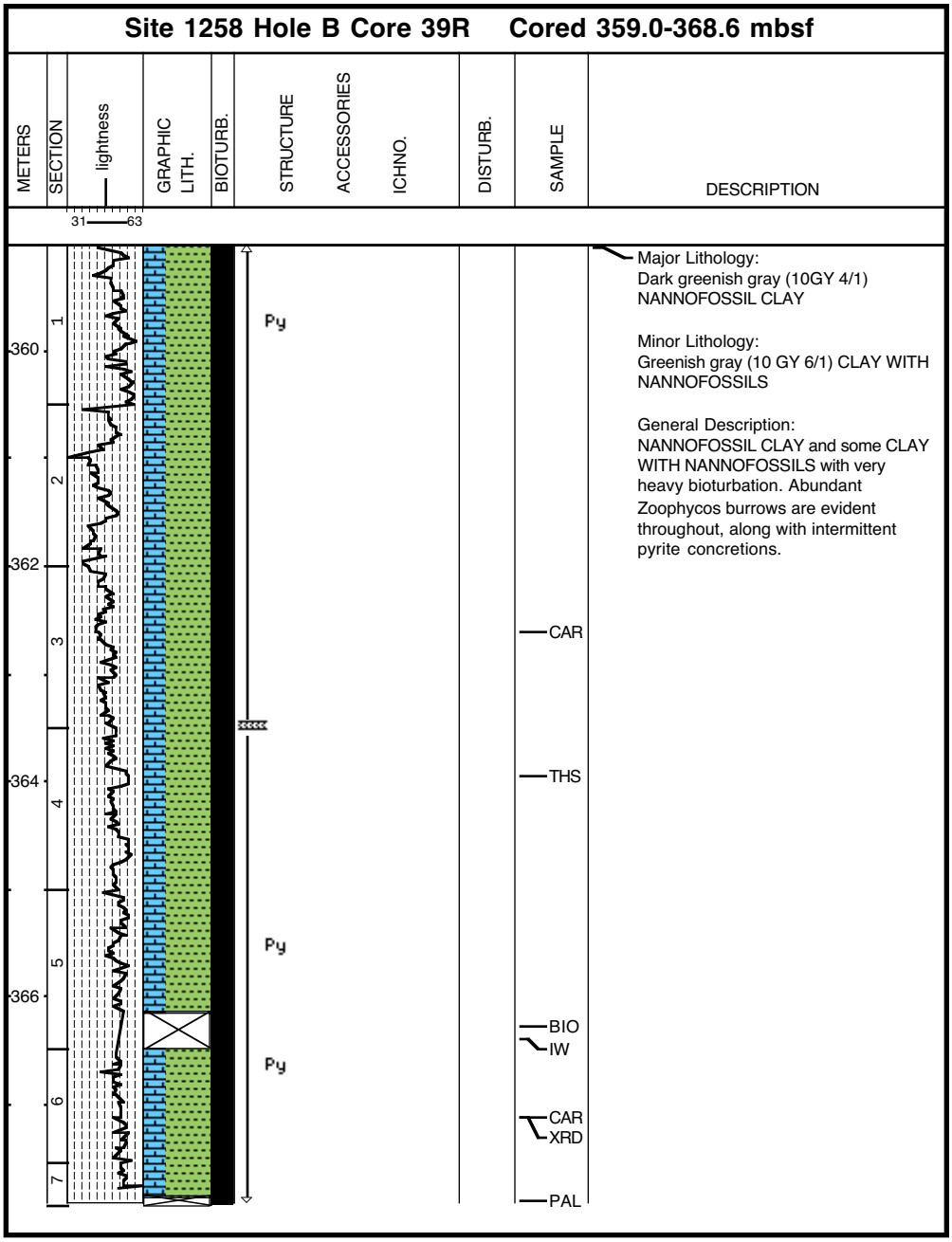
Core Photo


Site 1258 Hole B Core 37R Cored 339.7-349.3 mbsf
METERS
SECTION
lightness
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
45
54
Major Lithology:
Greenish gray (5 GY 6/1) NANNOFOSSIL CLAY
General Description:
This CC is a NANNOFOSSIL CLAY with very heavy bioturbation.

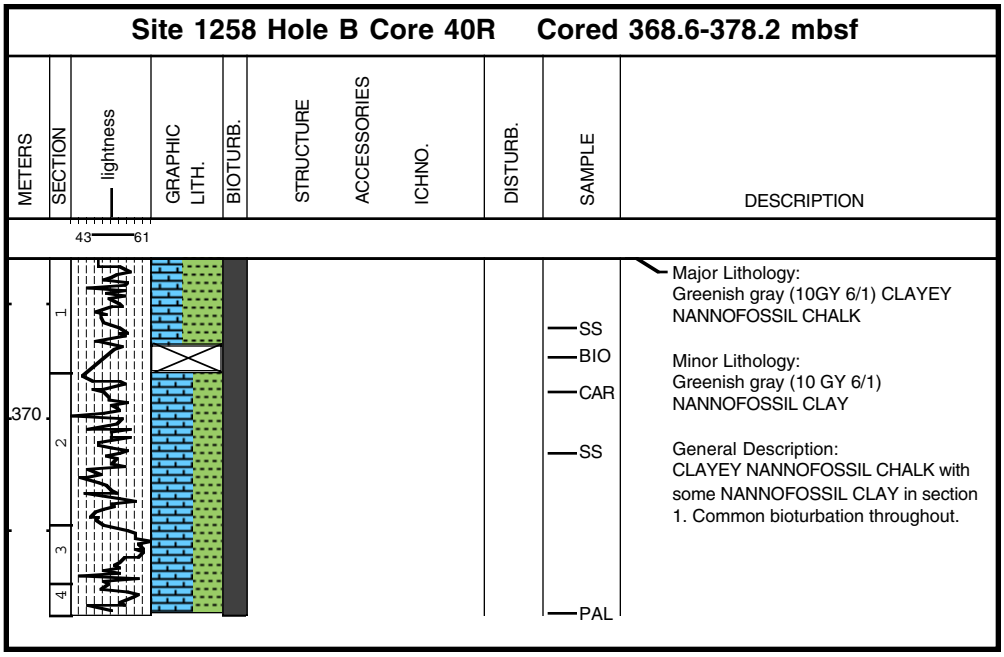
Core Photo


Site 1258 Hole B Core 38R Cored 349.3-359.0 mbsf
METERS
SECTION
lightness
33
56
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
350
352
1
2
3
4
Py
CAR
SS
CAR
SS
THS
PAL
Major Lithology:
Greenish gray (5 GY 6/1)
NANNOFOSSIL CLAY
General Description:
This core is a NANNOFOSSIL CLAY with very heavy bioturbation. Heavy biscuiting is evident throughout, and abundant pyrite concretions are in Section 3.

Core Photo

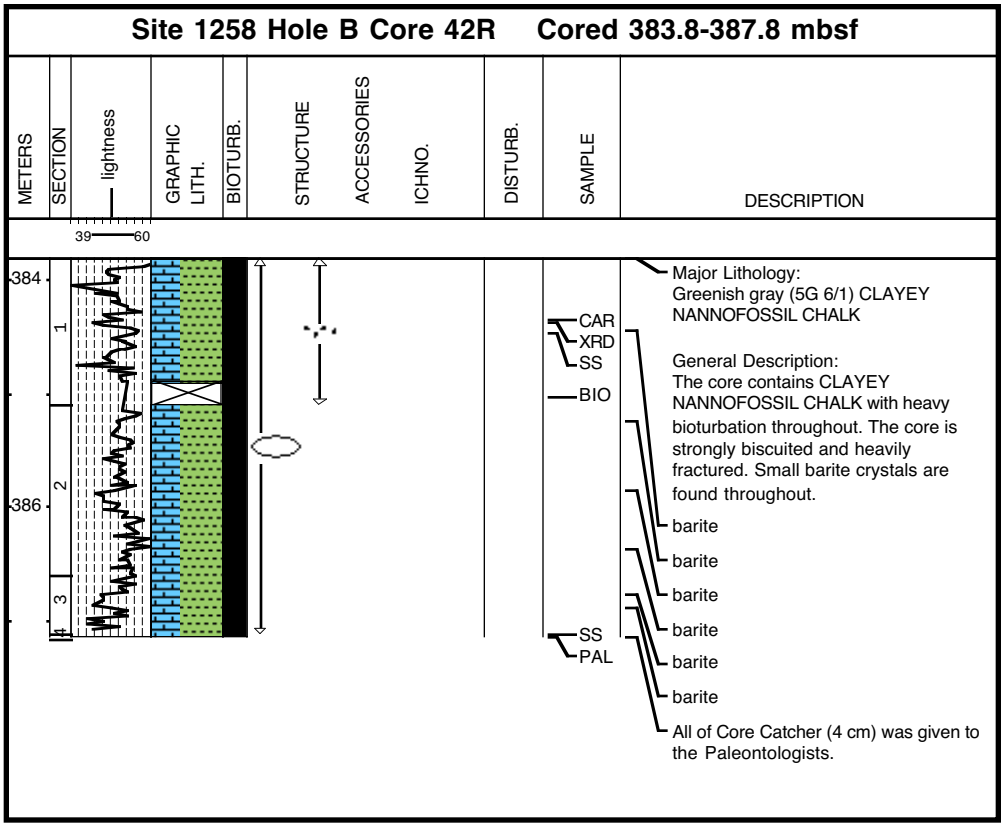

Site 1258 Hole B Core 39R Cored 359.0-368.6 mbsf
METERS
SECTION
lightness
31
63
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
360
362
364
366
1
2
3
4
5
6
7
Py
Py
Py
CAR
THS
BIO
IW
CAR
XRD
PAL
Major Lithology:
Dark greenish gray (10GY 4/1)
NANNOFOSSIL CLAY
Minor Lithology:
Greenish gray (10 GY 6/1) CLAY WITH
NANNOFOSSILS
General Description:
NANNOFOSSIL CLAY and some CLAY
WITH NANNOFOSSILS with very
heavy bioturbation. Abundant
Zoophycos burrows are evident
throughout, along with intermittent
pyrite concretions.

Core Photo

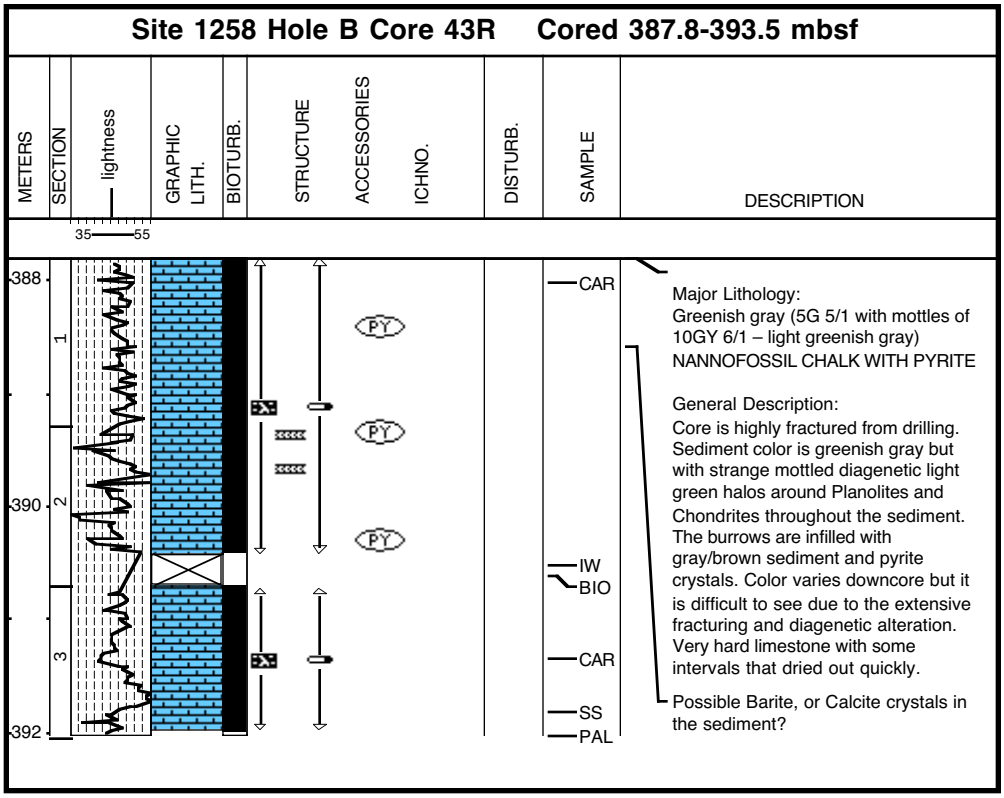


1258B-41R NO RECOVERY

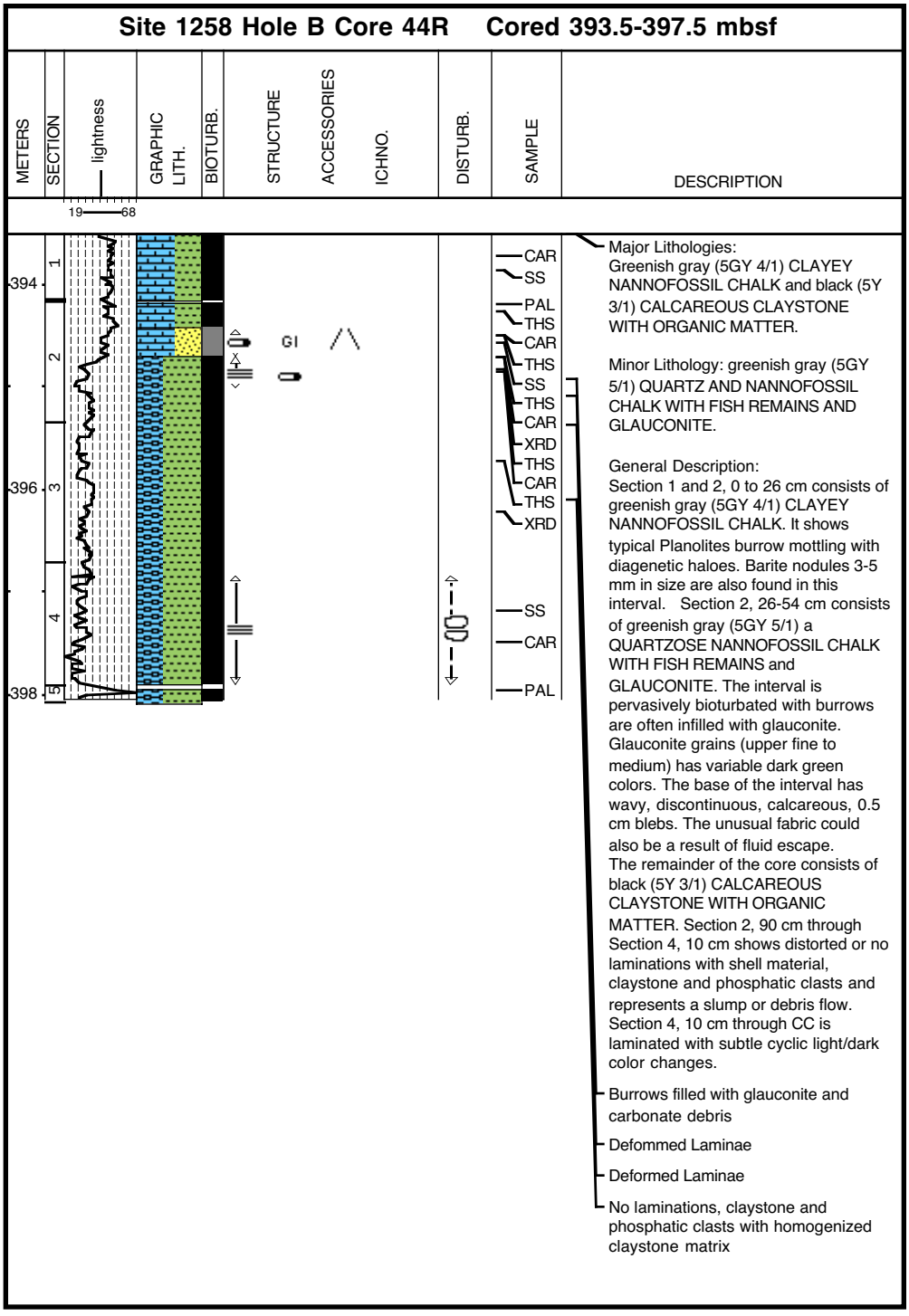
Core Photo


Site 1258 Hole B Core 42R Cored 383.8-387.8 mbsf
METERS
SECTION
lightness
39
60
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
384
386
1
2
3
CAR
XRD
SS
BIO
SS
PAL
Major Lithology:
Greenish gray (5G 6/1) CLAYEY NANNOFOSSIL CHALK
General Description:
The core contains CLAYEY NANNOFOSSIL CHALK with heavy bioturbation throughout. The core is strongly biscuited and heavily fractured. Small barite crystals are found throughout.
barite
barite
barite
barite
barite
barite
All of Core Catcher (4 cm) was given to the Paleontologists.

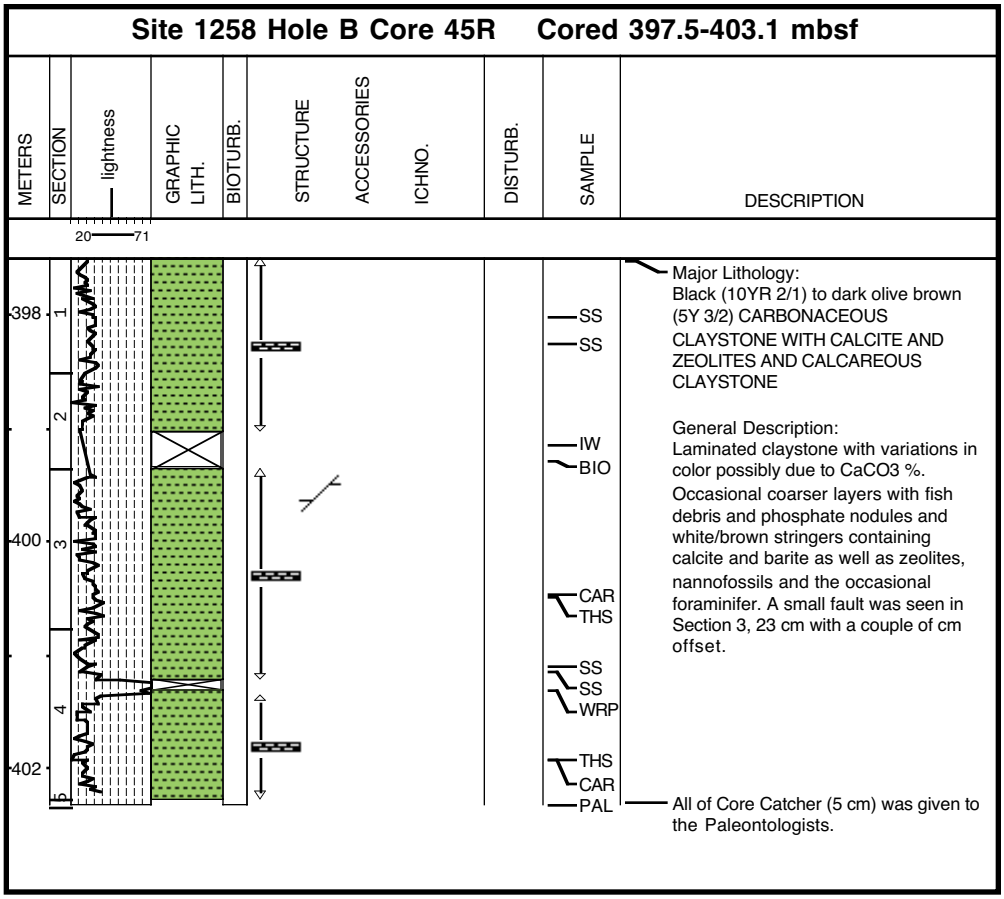
Core Photo


Site 1258 Hole B Core 43R Cored 387.8-393.5 mbsf
METERS
SECTION
lightness
35
55
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
388
390
392
1
2
3
PY
PY
PY
CAR
IW
BIO
CAR
SS
PAL
Major Lithology:
Greenish gray (5G 5/1 with mottles of 10GY 6/1 – light greenish gray)
NANNOFOSSIL CHALK WITH PYRITE
General Description:
Core is highly fractured from drilling. Sediment color is greenish gray but with strange mottled diagenetic light green halos around Planolites and Chondrites throughout the sediment. The burrows are infilled with gray/brown sediment and pyrite crystals. Color varies downcore but it is difficult to see due to the extensive fracturing and diagenetic alteration. Very hard limestone with some intervals that dried out quickly.
Possible Barite, or Calcite crystals in the sediment?

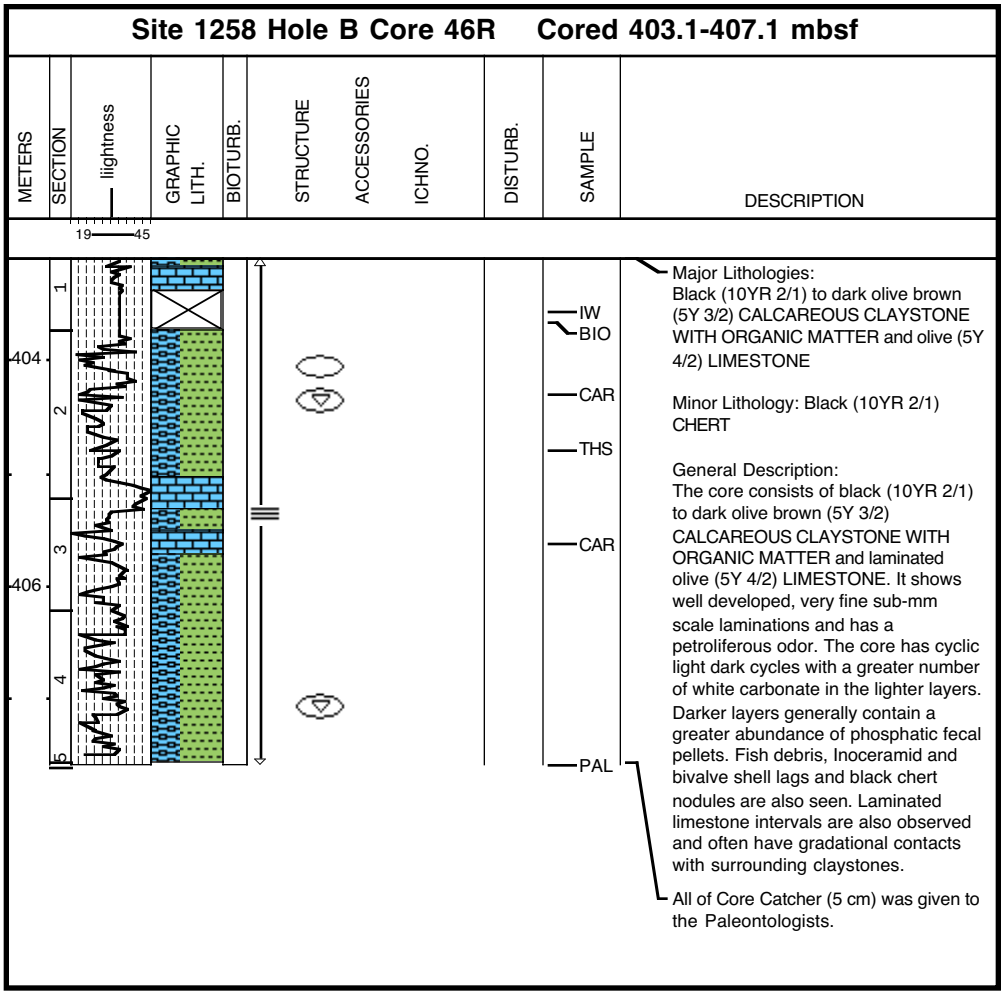
Core Photo


Site 1258 Hole B Core 44R Cored 393.5-397.5 mbsf
METERS
SECTION
lightness
19
68
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
394
396
398
1
2
3
4
5
GI
CAR
SS
PAL
THS
CAR
THS
SS
THS
CAR
XRD
THS
CAR
THS
XRD
SS
CAR
PAL
Major Lithologies:
Greenish gray (5GY 4/1) CLAYEY NANNOFOSSIL CHALK and black (5Y 3/1) CALCAREOUS CLAYSTONE WITH ORGANIC MATTER.
Minor Lithology: greenish gray (5GY 5/1) QUARTZ AND NANNOFOSSIL CHALK WITH FISH REMAINS AND GLAUCONITE.
General Description:
Section 1 and 2, 0 to 26 cm consists of greenish gray (5GY 4/1) CLAYEY NANNOFOSSIL CHALK. It shows typical Planolites burrow mottling with diagenetic haloes. Barite nodules 3-5 mm in size are also found in this interval. Section 2, 26-54 cm consists of greenish gray (5GY 5/1) a QUARTZOSE NANNOFOSSIL CHALK WITH FISH REMAINS and GLAUCONITE. The interval is pervasively bioturbated with burrows are often infilled with glauconite. Glauconite grains (upper fine to medium) has variable dark green colors. The base of the interval has wavy, discontinuous, calcareous, 0.5 cm blebs. The unusual fabric could also be a result of fluid escape.
The remainder of the core consists of black (5Y 3/1) CALCAREOUS CLAYSTONE WITH ORGANIC MATTER. Section 2, 90 cm through Section 4, 10 cm shows distorted or no laminations with shell material, claystone and phosphatic clasts and represents a slump or debris flow. Section 4, 10 cm through CC is laminated with subtle cyclic light/dark color changes.
Burrows filled with glauconite and carbonate debris
Defommed Laminae
Deformed Laminae
No laminations, claystone and phosphatic clasts with homogenized claystone matrix

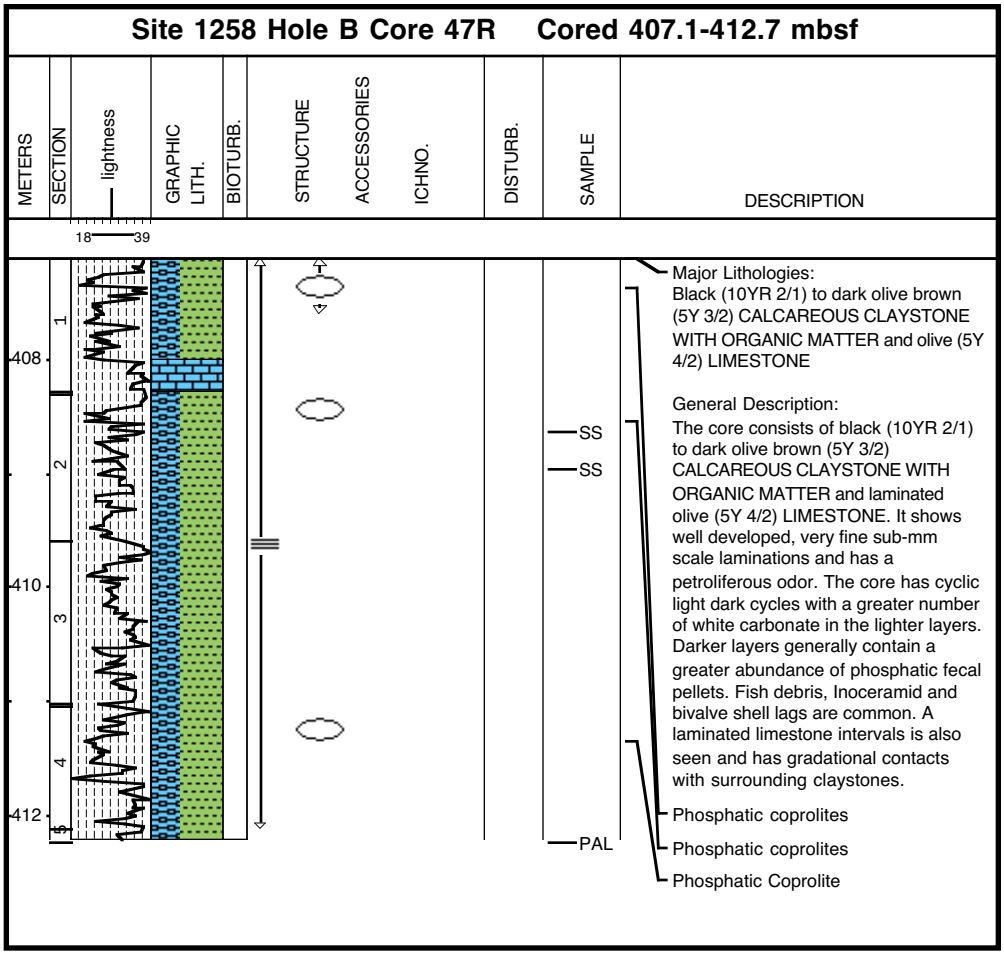
Core Photo


Site 1258 Hole B Core 45R Cored 397.5-403.1 mbsf
METERS
SECTION
lightness
20
71
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
398
400
402
1
2
3
4
5
SS
SS
IW
BIO
CAR
THS
SS
SS
WRP
THS
CAR
PAL
Major Lithology:
Black (10YR 2/1) to dark olive brown (5Y 3/2) CARBONACEOUS CLAYSTONE WITH CALCITE AND ZEOLITES AND CALCAREOUS CLAYSTONE
General Description:
Laminated claystone with variations in color possibly due to CaCO3 %. Occasional coarser layers with fish debris and phosphate nodules and white/brown stringers containing calcite and barite as well as zeolites, nannofossils and the occasional foraminifer. A small fault was seen in Section 3, 23 cm with a couple of cm offset.
All of Core Catcher (5 cm) was given to the Paleontologists.

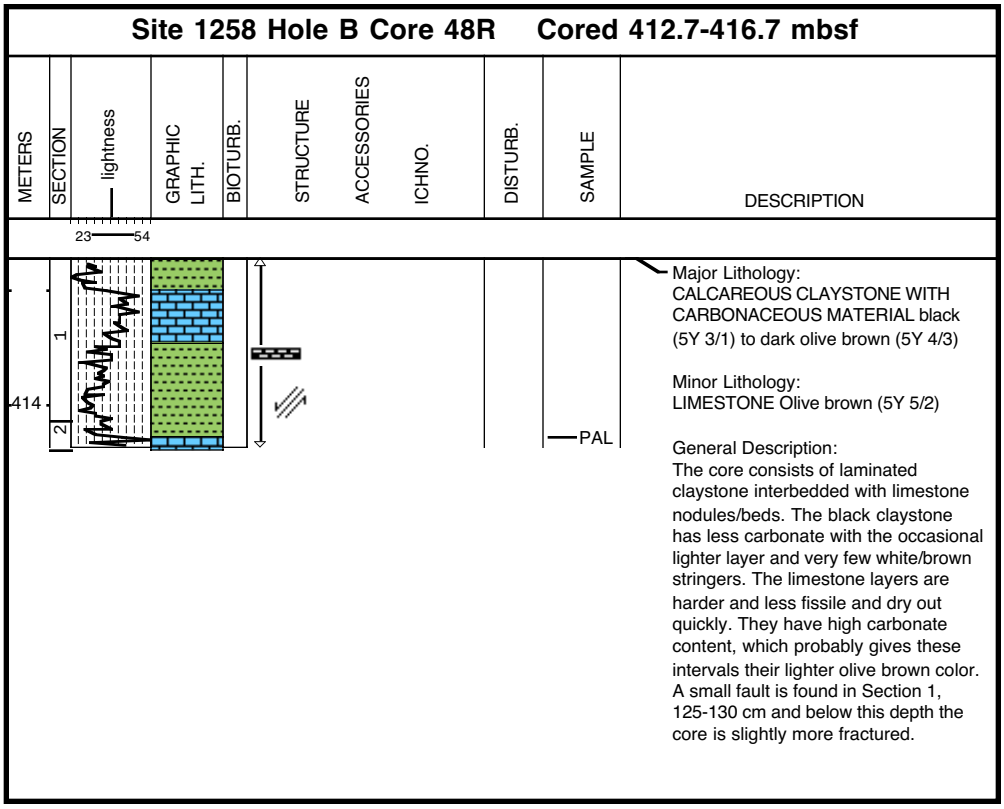
Core Photo


Site 1258 Hole B Core 46R Cored 403.1-407.1 mbsf
METERS
SECTION
lightness
19
45
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
404
406
1
2
3
4
5
IW
BIO
CAR
THS
CAR
PAL
Major Lithologies:
Black (10YR 2/1) to dark olive brown (5Y 3/2) CALCAREOUS CLAYSTONE WITH ORGANIC MATTER and olive (5Y 4/2) LIMESTONE
Minor Lithology: Black (10YR 2/1) CHERT
General Description:
The core consists of black (10YR 2/1) to dark olive brown (5Y 3/2) CALCAREOUS CLAYSTONE WITH ORGANIC MATTER and laminated olive (5Y 4/2) LIMESTONE. It shows well developed, very fine sub-mm scale laminations and has a petroliferous odor. The core has cyclic light dark cycles with a greater number of white carbonate in the lighter layers. Darker layers generally contain a greater abundance of phosphatic fecal pellets. Fish debris, Inoceramid and bivalve shell lags and black chert nodules are also seen. Laminated limestone intervals are also observed and often have gradational contacts with surrounding claystones.
All of Core Catcher (5 cm) was given to the Paleontologists.

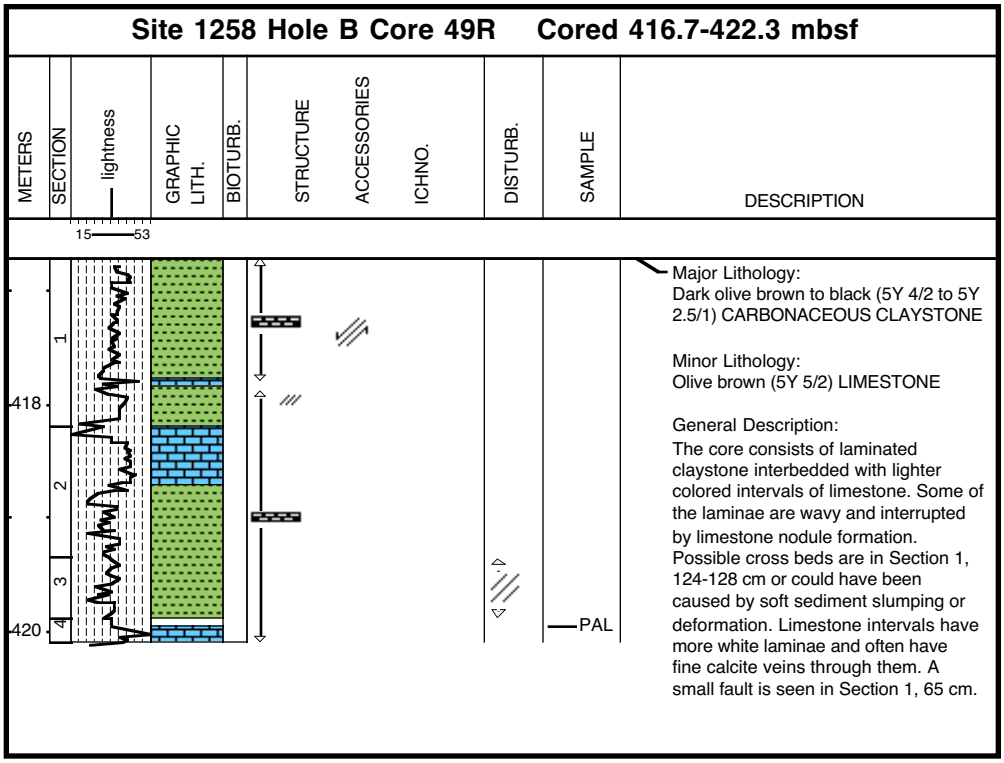
Core Photo


Site 1258 Hole B Core 47R Cored 407.1-412.7 mbsf
METERS
SECTION
lightness
18
39
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
408
410
412
1
2
3
4
SS
SS
PAL
Major Lithologies:
Black (10YR 2/1) to dark olive brown (5Y 3/2) CALCAREOUS CLAYSTONE WITH ORGANIC MATTER and olive (5Y 4/2) LIMESTONE
General Description:
The core consists of black (10YR 2/1) to dark olive brown (5Y 3/2) CALCAREOUS CLAYSTONE WITH ORGANIC MATTER and laminated olive (5Y 4/2) LIMESTONE. It shows well developed, very fine sub-mm scale laminations and has a petroliferous odor. The core has cyclic light dark cycles with a greater number of white carbonate in the lighter layers. Darker layers generally contain a greater abundance of phosphatic fecal pellets. Fish debris, Inoceramid and bivalve shell lags are common. A laminated limestone intervals is also seen and has gradational contacts with surrounding claystones.
Phosphatic coprolites
Phosphatic coprolites
Phosphatic Coprolite

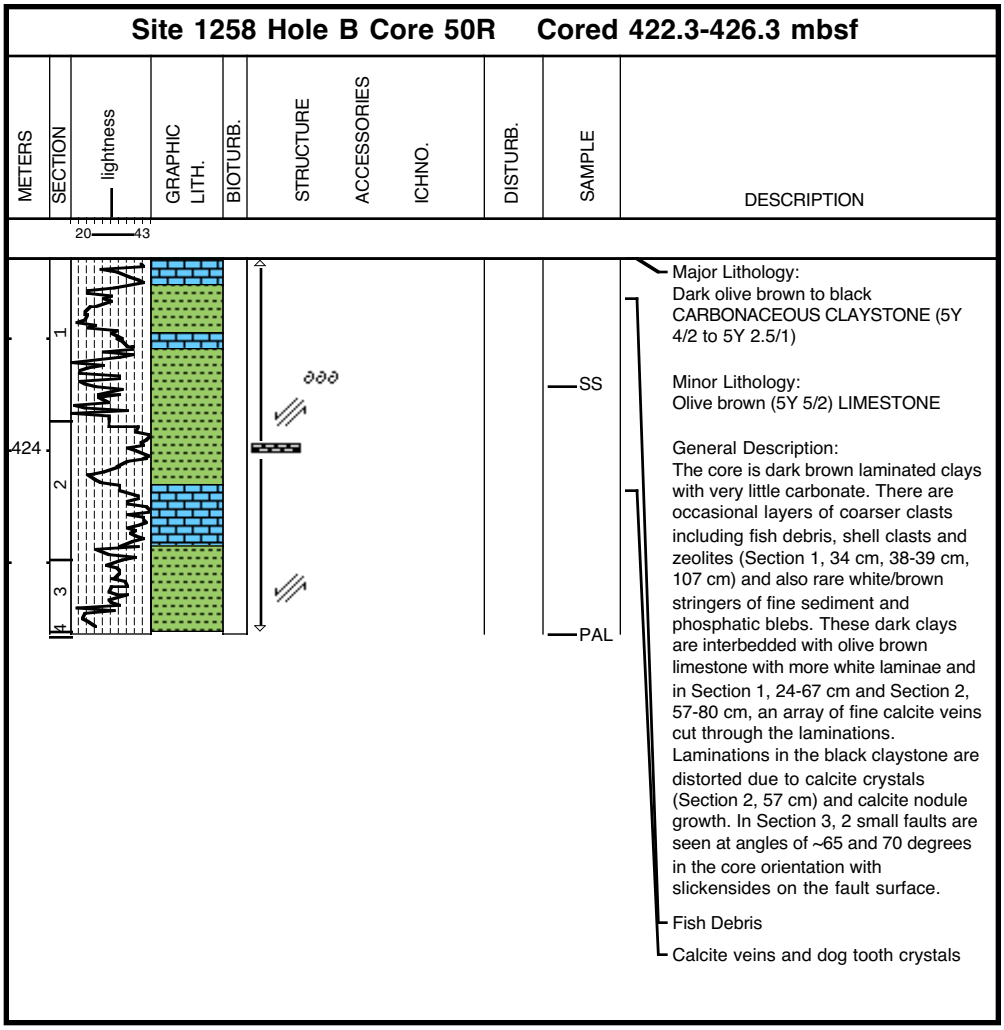
Core Photo


Site 1258 Hole B Core 48R Cored 412.7-416.7 mbsf
METERS
SECTION
lightness
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
23
54
414
1
2
PAL
Major Lithology:
CALCAREOUS CLAYSTONE WITH CARBONACEOUS MATERIAL black (5Y 3/1) to dark olive brown (5Y 4/3)
Minor Lithology:
LIMESTONE Olive brown (5Y 5/2)
General Description:
The core consists of laminated claystone interbedded with limestone nodules/beds. The black claystone has less carbonate with the occasional lighter layer and very few white/brown stringers. The limestone layers are harder and less fissile and dry out quickly. They have high carbonate content, which probably gives these intervals their lighter olive brown color. A small fault is found in Section 1, 125-130 cm and below this depth the core is slightly more fractured.

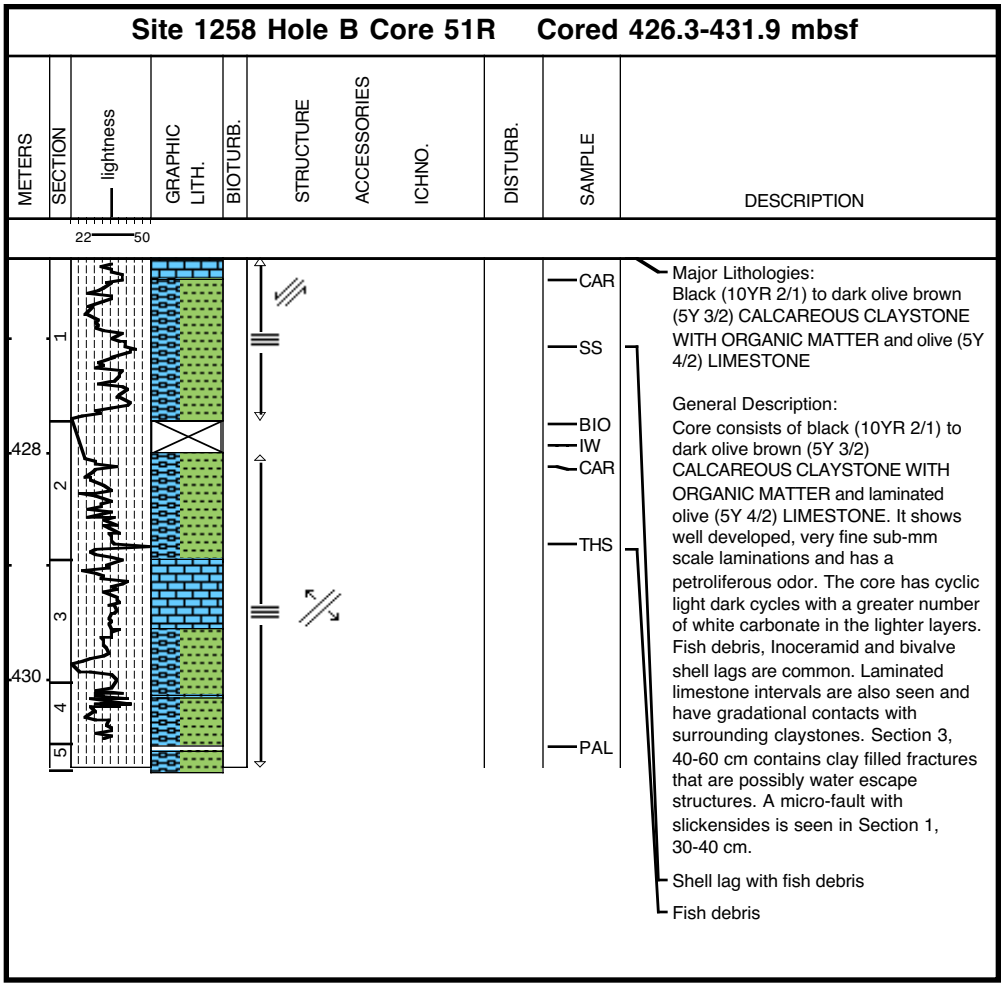
Core Photo


Site 1258 Hole B Core 49R Cored 416.7-422.3 mbsf
METERS
SECTION
lightness
15
53
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
418
420
1
2
3
4
PAL
Major Lithology:
Dark olive brown to black (5Y 4/2 to 5Y 2.5/1) CARBONACEOUS CLAYSTONE
Minor Lithology:
Olive brown (5Y 5/2) LIMESTONE
General Description:
The core consists of laminated claystone interbedded with lighter colored intervals of limestone. Some of the laminae are wavy and interrupted by limestone nodule formation. Possible cross beds are in Section 1, 124-128 cm or could have been caused by soft sediment slumping or deformation. Limestone intervals have more white laminae and often have fine calcite veins through them. A small fault is seen in Section 1, 65 cm.

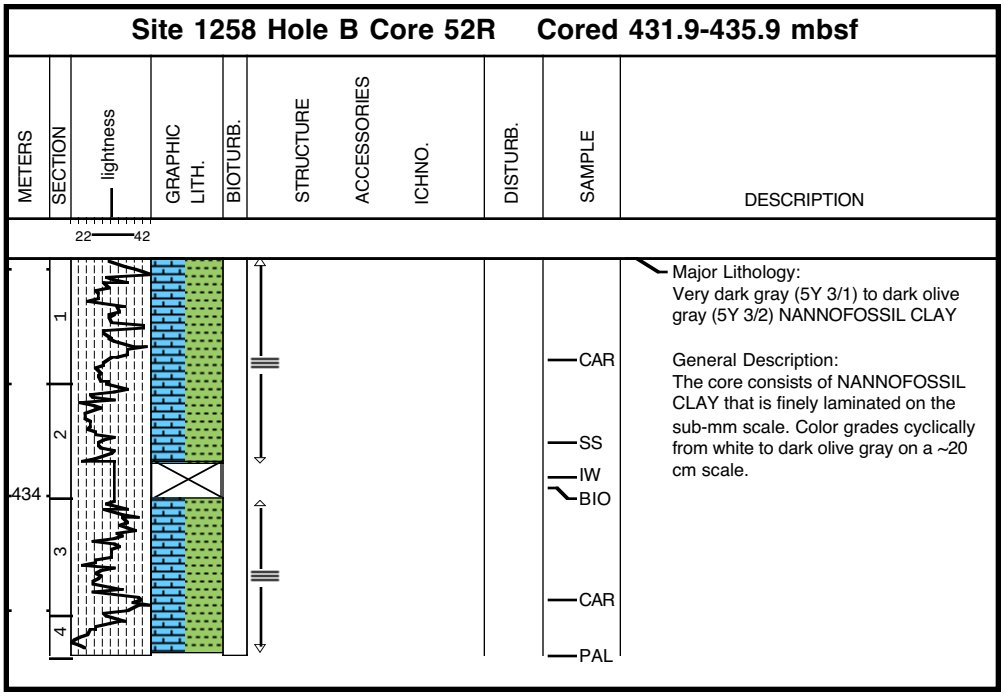
Core Photo


Site 1258 Hole B Core 50R Cored 422.3-426.3 mbsf
METERS
SECTION
lightness
20
43
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
424
1
2
3
4
SS
PAL
Major Lithology:
Dark olive brown to black CARBONACEOUS CLAYSTONE (5Y 4/2 to 5Y 2.5/1)
Minor Lithology:
Olive brown (5Y 5/2) LIMESTONE
General Description:
The core is dark brown laminated clays with very little carbonate. There are occasional layers of coarser clasts including fish debris, shell clasts and zeolites (Section 1, 34 cm, 38-39 cm, 107 cm) and also rare white/brown stringers of fine sediment and phosphatic blebs. These dark clays are interbedded with olive brown limestone with more white laminae and in Section 1, 24-67 cm and Section 2, 57-80 cm, an array of fine calcite veins cut through the laminations. Laminations in the black claystone are distorted due to calcite crystals (Section 2, 57 cm) and calcite nodule growth. In Section 3, 2 small faults are seen at angles of ~65 and 70 degrees in the core orientation with slickensides on the fault surface.
Fish Debris
Calcite veins and dog tooth crystals

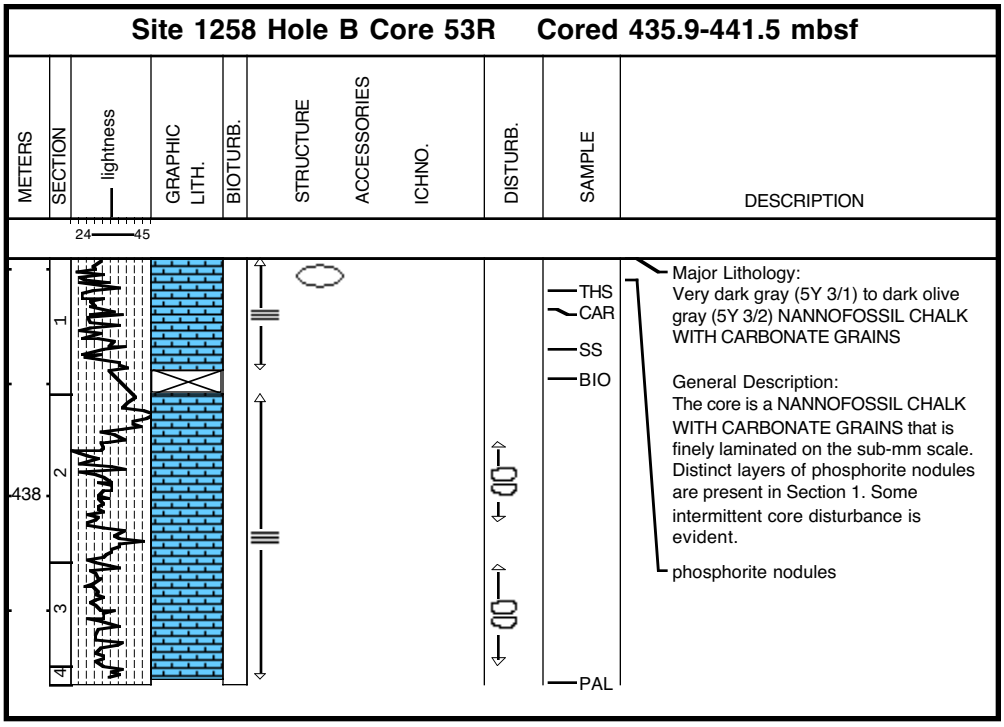
Core Photo


Site 1258 Hole B Core 51R Cored 426.3-431.9 mbsf
METERS
SECTION
lightness
22
50
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
428
430
1
2
3
4
5
CAR
SS
BIO
IW
CAR
THS
PAL
Major Lithologies:
Black (10YR 2/1) to dark olive brown (5Y 3/2) CALCAREOUS CLAYSTONE WITH ORGANIC MATTER and olive (5Y 4/2) LIMESTONE
General Description:
Core consists of black (10YR 2/1) to dark olive brown (5Y 3/2) CALCAREOUS CLAYSTONE WITH ORGANIC MATTER and laminated olive (5Y 4/2) LIMESTONE. It shows well developed, very fine sub-mm scale laminations and has a petroliferous odor. The core has cyclic light dark cycles with a greater number of white carbonate in the lighter layers. Fish debris, Inoceramid and bivalve shell lags are common. Laminated limestone intervals are also seen and have gradational contacts with surrounding claystones. Section 3, 40-60 cm contains clay filled fractures that are possibly water escape structures. A micro-fault with slickensides is seen in Section 1, 30-40 cm.
Shell lag with fish debris
Fish debris

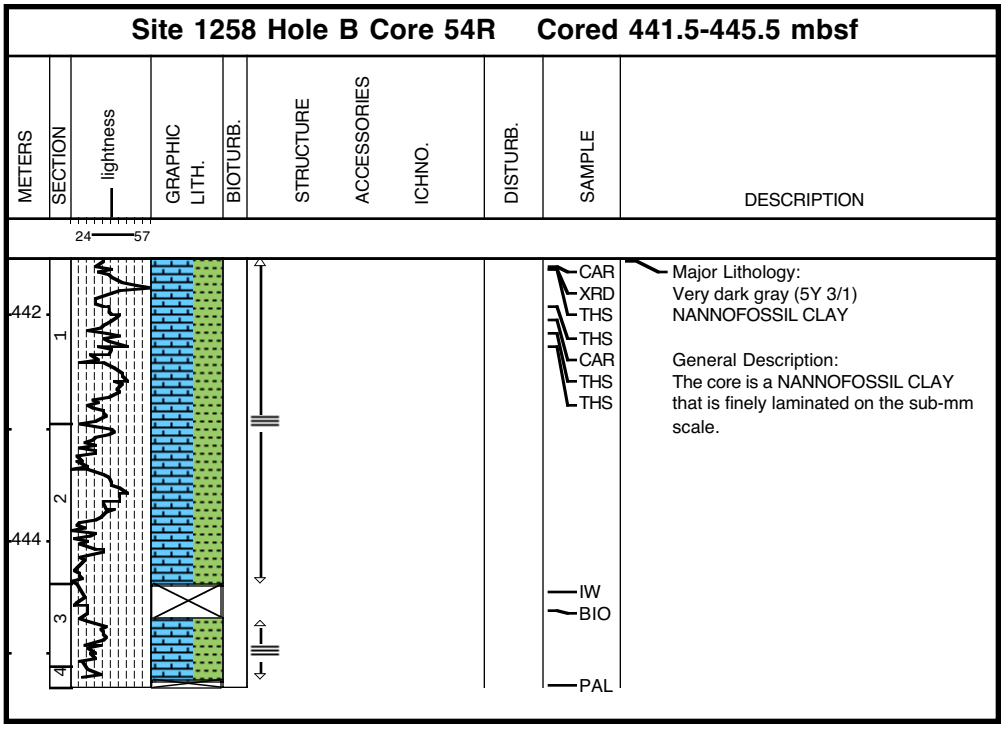
Core Photo


Site 1258 Hole B Core 52R Cored 431.9-435.9 mbsf
METERS
SECTION
lightness
22
42
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
434
1
2
3
4
CAR
SS
IW
BIO
CAR
PAL
Major Lithology:
Very dark gray (5Y 3/1) to dark olive gray (5Y 3/2) NANNOFOSSIL CLAY
General Description:
The core consists of NANNOFOSSIL CLAY that is finely laminated on the sub-mm scale. Color grades cyclically from white to dark olive gray on a ~20 cm scale.

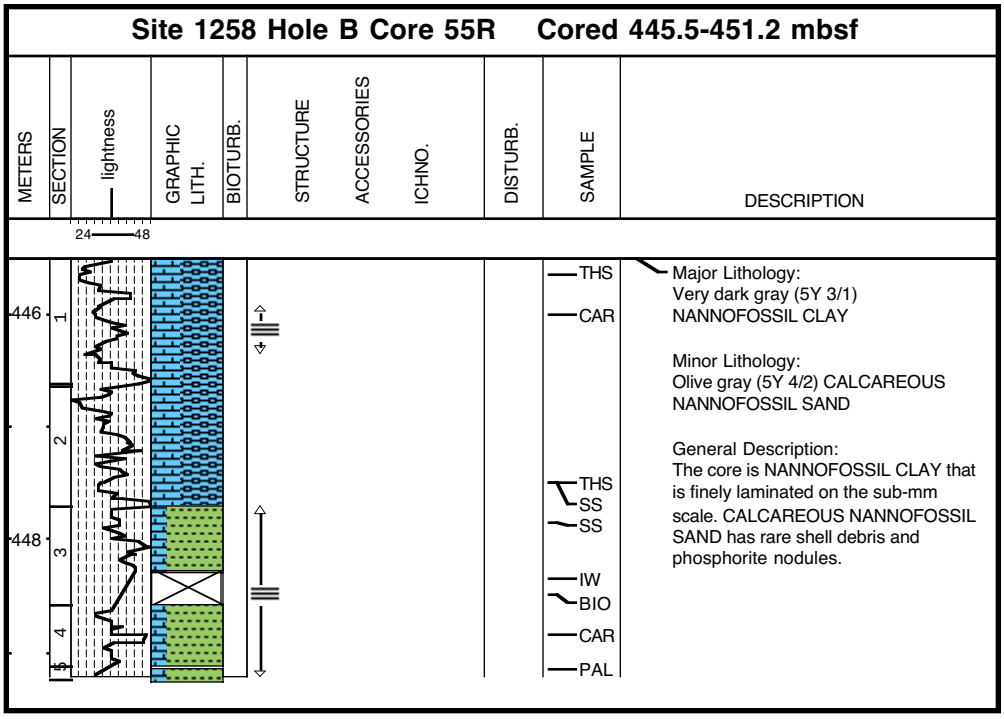
Core Photo


Site 1258 Hole B Core 53R Cored 435.9-441.5 mbsf
METERS
SECTION
lightness
24
45
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
438
1
2
3
4
THS
CAR
SS
BIO
PAL
Major Lithology:
Very dark gray (5Y 3/1) to dark olive gray (5Y 3/2) NANNOFOSSIL CHALK WITH CARBONATE GRAINS
General Description:
The core is a NANNOFOSSIL CHALK WITH CARBONATE GRAINS that is finely laminated on the sub-mm scale. Distinct layers of phosphorite nodules are present in Section 1. Some intermittent core disturbance is evident.
phosphorite nodules

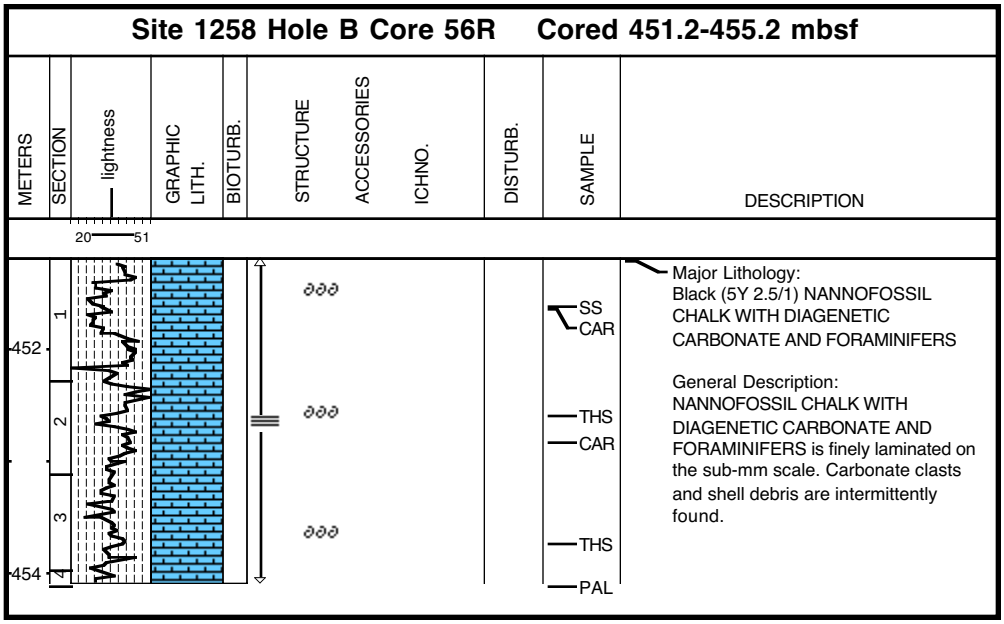
Core Photo


Site 1258 Hole B Core 54R Cored 441.5-445.5 mbsf
METERS
SECTION
lightness
24
57
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
442
444
1
2
3
4
CAR
XRD
THS
THS
CAR
THS
THS
IW
BIO
PAL
Major Lithology:
Very dark gray (5Y 3/1)
NANNOFOSSIL CLAY
General Description:
The core is a NANNOFOSSIL CLAY
that is finely laminated on the sub-mm
scale.

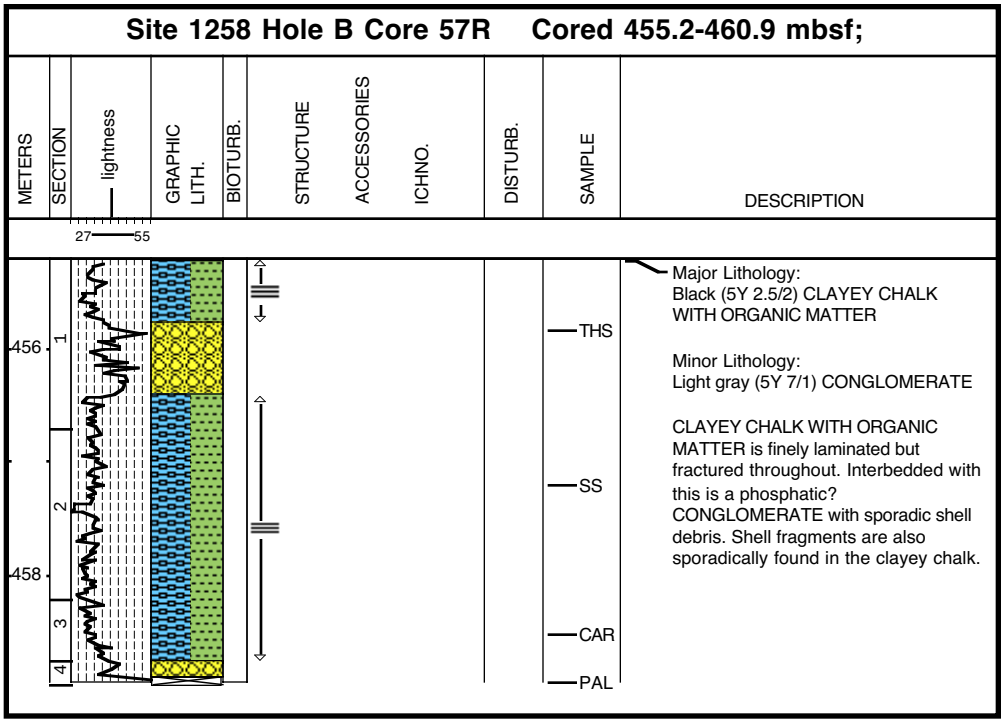
Core Photo


Site 1258 Hole B Core 55R Cored 445.5-451.2 mbsf
METERS
SECTION
lightness
24
48
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
446
448
1
2
3
4
5
THS
CAR
THS
SS
SS
IW
BIO
CAR
PAL
Major Lithology:
Very dark gray (5Y 3/1)
NANNOFOSSIL CLAY
Minor Lithology:
Olive gray (5Y 4/2) CALCAREOUS
NANNOFOSSIL SAND
General Description:
The core is NANNOFOSSIL CLAY that is finely laminated on the sub-mm scale. CALCAREOUS NANNOFOSSIL SAND has rare shell debris and phosphorite nodules.

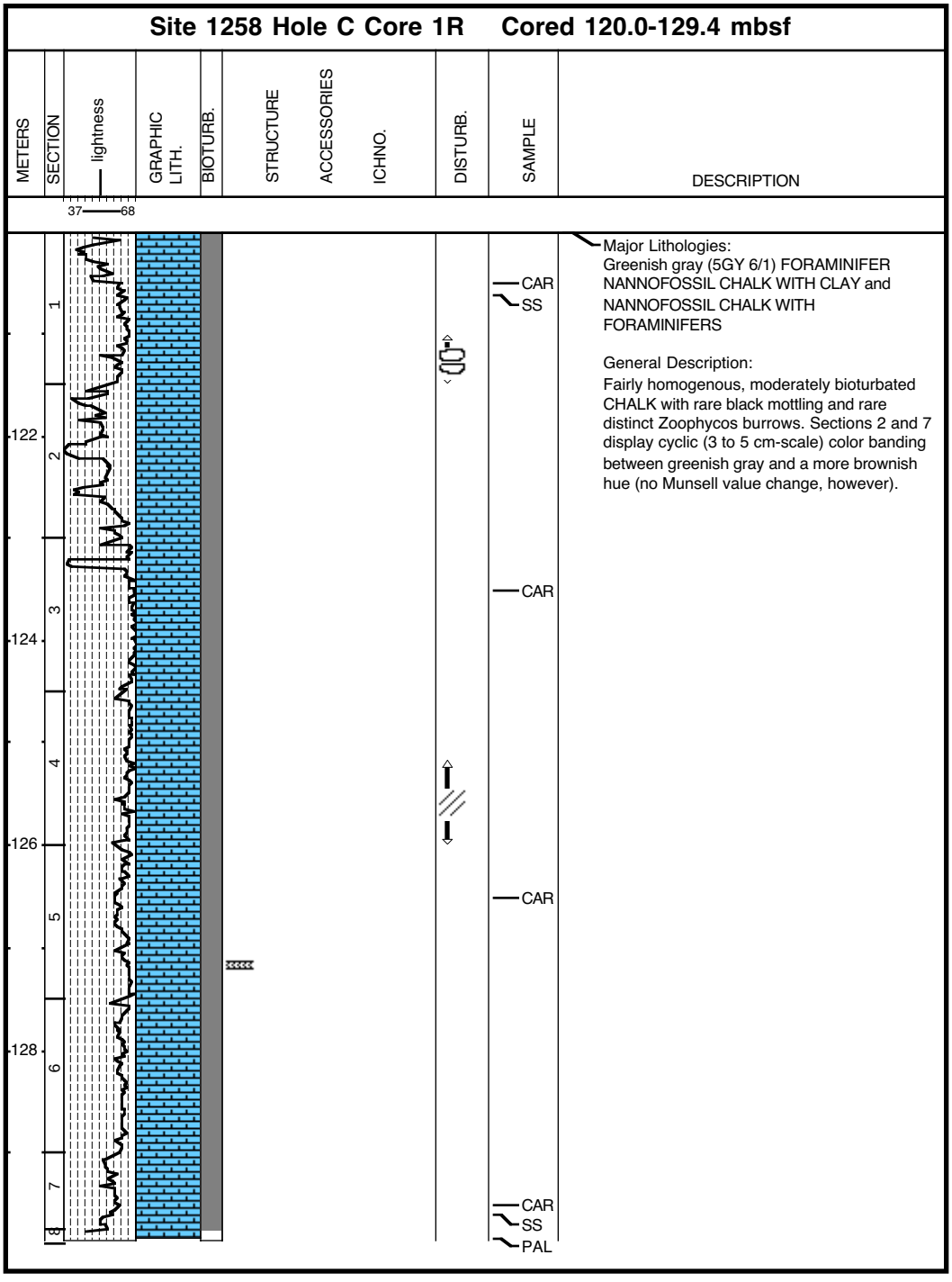
Core Photo


Site 1258 Hole B Core 56R Cored 451.2-455.2 mbsf
METERS
SECTION
lightness
20
51
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
452
454
1
2
3
4
SS
CAR
THS
CAR
THS
PAL
Major Lithology:
Black (5Y 2.5/1) NANNOFOSSIL CHALK WITH DIAGENETIC CARBONATE AND FORAMINIFERS
General Description:
NANNOFOSSIL CHALK WITH DIAGENETIC CARBONATE AND FORAMINIFERS is finely laminated on the sub-mm scale. Carbonate clasts and shell debris are intermittently found.

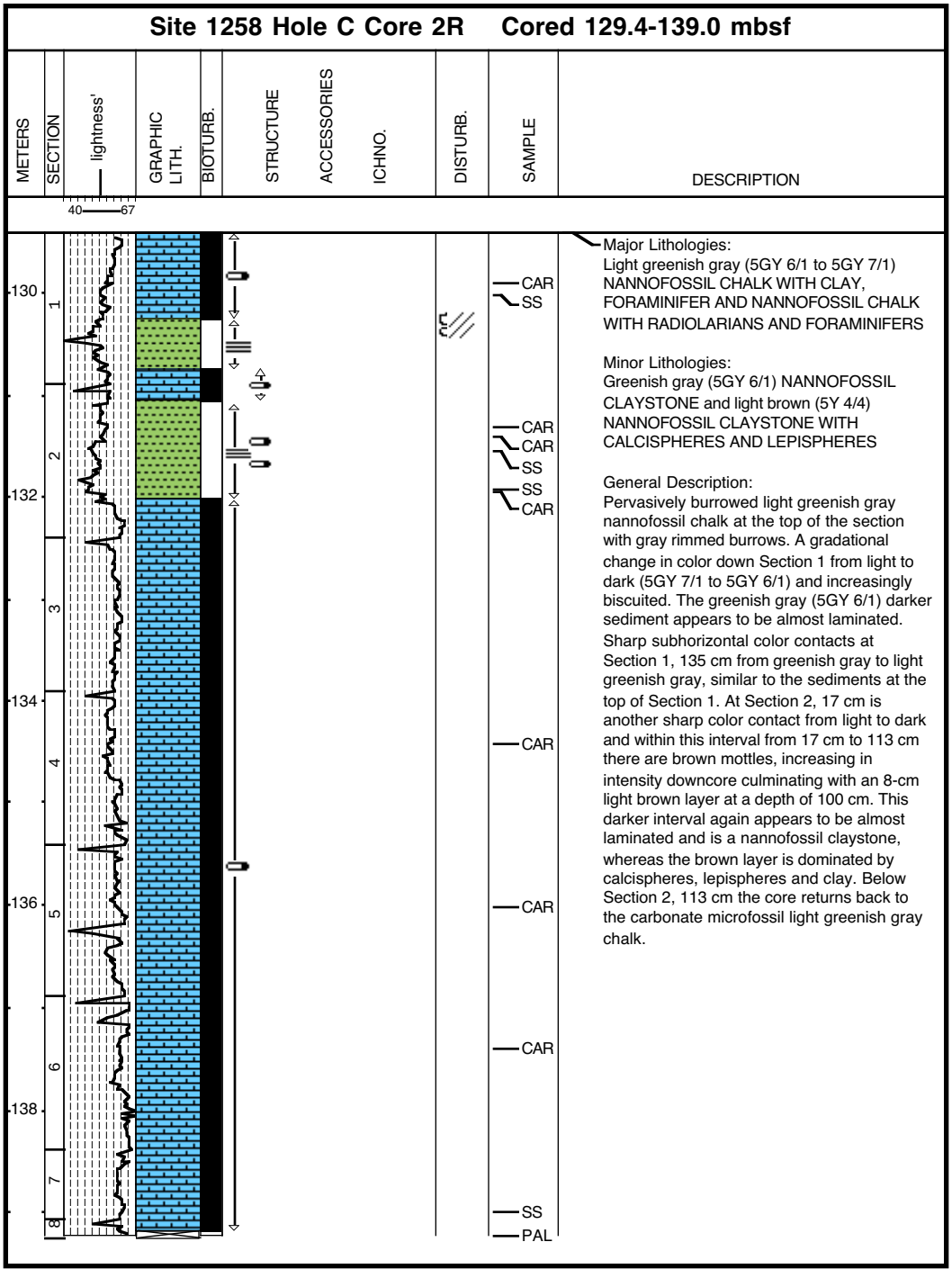
Core Photo


Site 1258 Hole B Core 57R Cored 455.2-460.9 mbsf;
METERS
SECTION
lightness
27
55
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
456
458
1
2
3
4
THS
SS
CAR
PAL
Major Lithology:
Black (5Y 2.5/2) CLAYEY CHALK WITH ORGANIC MATTER
Minor Lithology:
Light gray (5Y 7/1) CONGLOMERATE
CLAYEY CHALK WITH ORGANIC MATTER is finely laminated but fractured throughout. Interbedded with this is a phosphatic? CONGLOMERATE with sporadic shell debris. Shell fragments are also sporadically found in the clayey chalk.

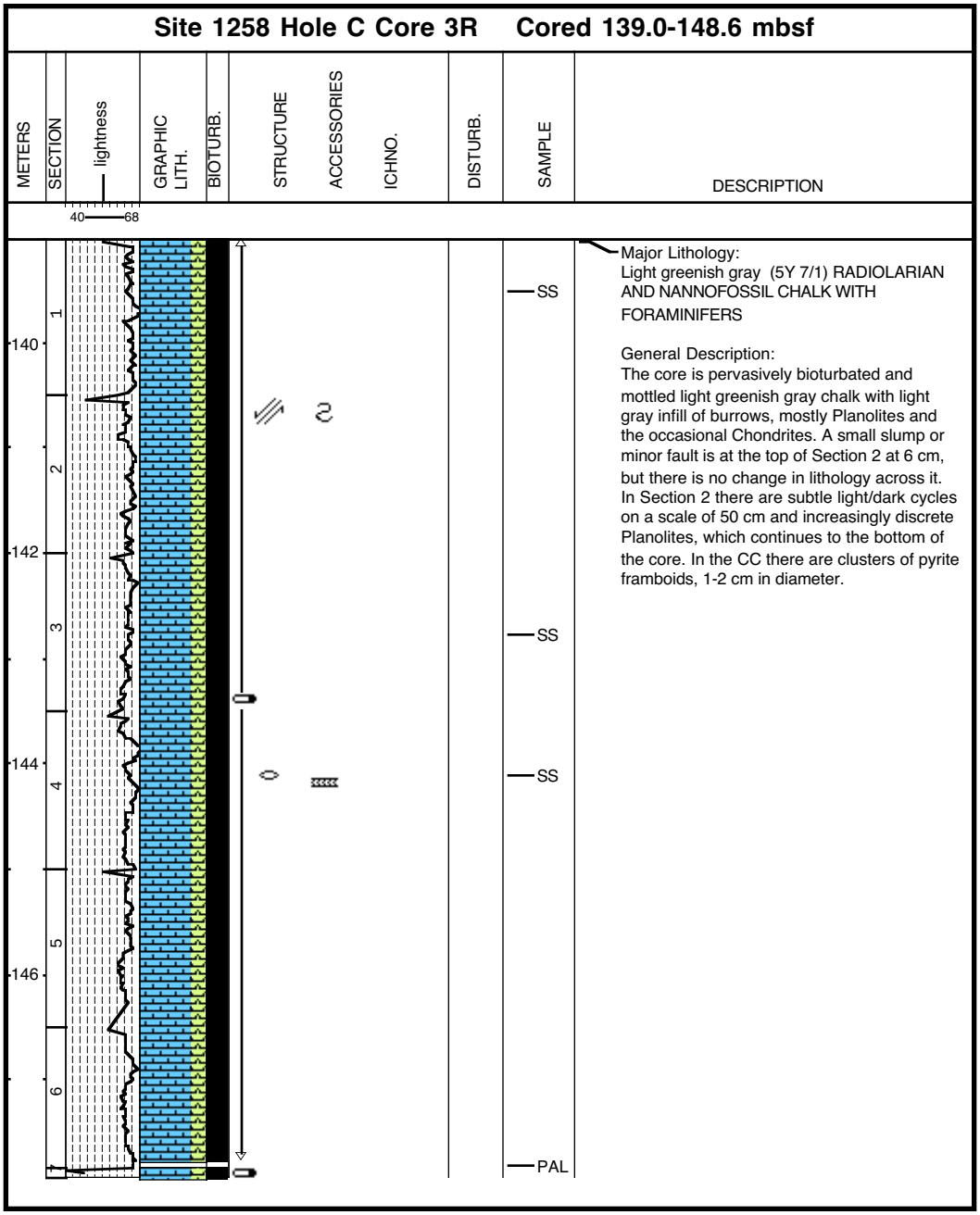
Core Photo


Site 1258 Hole C Core 1R Cored 120.0-129.4 mbsf
METERS
SECTION
lightness
37
68
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
122
124
126
128
1
2
3
4
5
6
7
CAR
SS
CAR
CAR
CAR
SS
PAL
Major Lithologies:
Greenish gray (5GY 6/1) FORAMINIFER NANNOFOSSIL CHALK WITH CLAY and NANNOFOSSIL CHALK WITH FORAMINIFERS
General Description:
Fairly homogenous, moderately bioturbated CHALK with rare black mottling and rare distinct Zoophycos burrows. Sections 2 and 7 display cyclic (3 to 5 cm-scale) color banding between greenish gray and a more brownish hue (no Munsell value change, however).

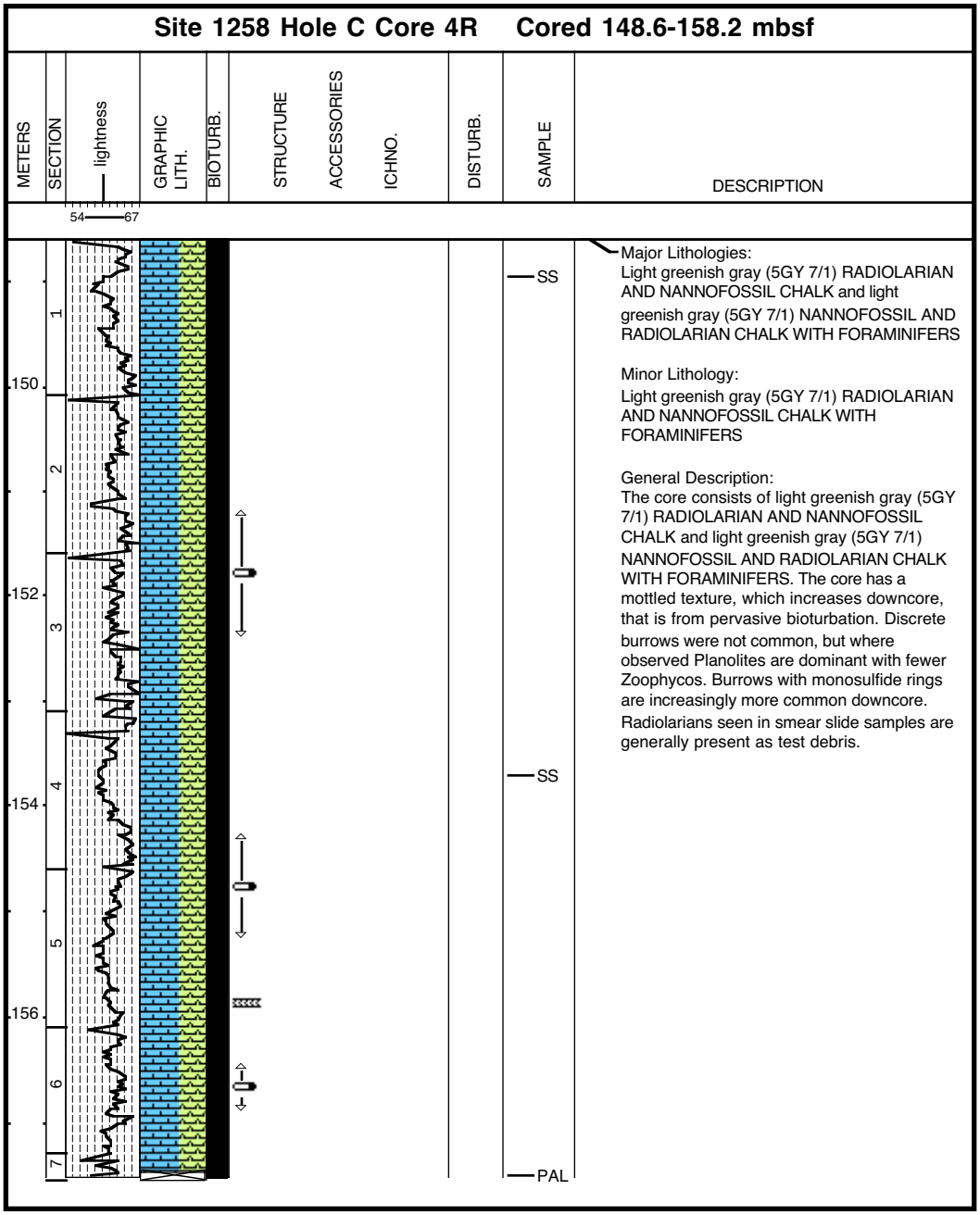
Core Photo


Site 1258 Hole C Core 2R Cored 129.4-139.0 mbsf
METERS
SECTION
lightness'
40
67
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
130
132
134
136
138
1
2
3
4
5
6
7
CAR
SS
CAR
CAR
SS
SS
CAR
CAR
CAR
SS
PAL
Major Lithologies:
Light greenish gray (5GY 6/1 to 5GY 7/1) NANNOFOSSIL CHALK WITH CLAY, FORAMINIFER AND NANNOFOSSIL CHALK WITH RADIOLARIANS AND FORAMINIFERS
Minor Lithologies:
Greenish gray (5GY 6/1) NANNOFOSSIL CLAYSTONE and light brown (5Y 4/4) NANNOFOSSIL CLAYSTONE WITH CALCISPHERES AND LEPISPHERES
General Description:
Pervasively burrowed light greenish gray nannofossil chalk at the top of the section with gray rimmed burrows. A gradational change in color down Section 1 from light to dark (5GY 7/1 to 5GY 6/1) and increasingly biscuited. The greenish gray (5GY 6/1) darker sediment appears to be almost laminated. Sharp subhorizontal color contacts at Section 1, 135 cm from greenish gray to light greenish gray, similar to the sediments at the top of Section 1. At Section 2, 17 cm is another sharp color contact from light to dark and within this interval from 17 cm to 113 cm there are brown mottles, increasing in intensity downcore culminating with an 8-cm light brown layer at a depth of 100 cm. This darker interval again appears to be almost laminated and is a nannofossil claystone, whereas the brown layer is dominated by calcispheres, lepispheres and clay. Below Section 2, 113 cm the core returns back to the carbonate microfossil light greenish gray chalk.

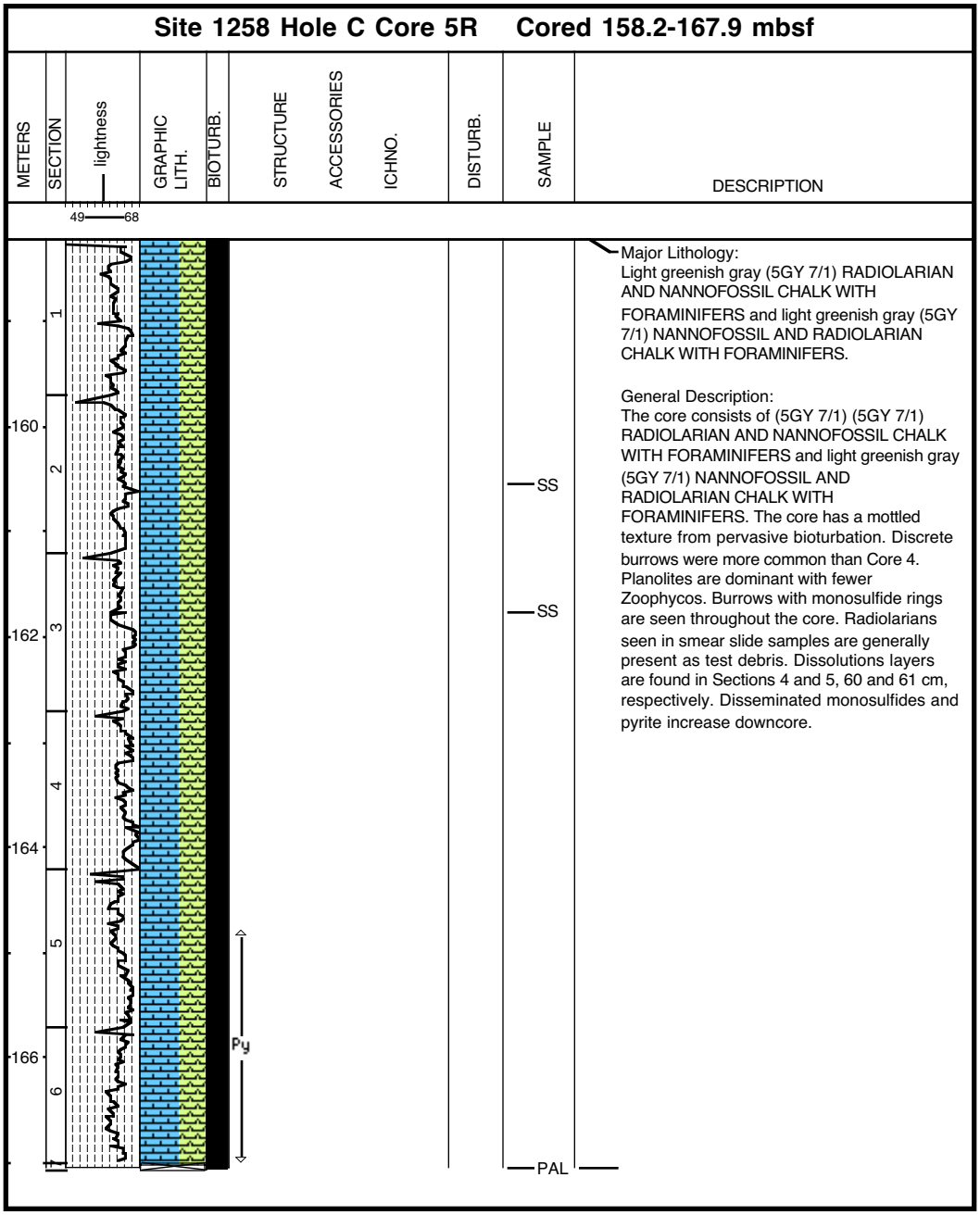
Core Photo


Site 1258 Hole C Core 3R Cored 139.0-148.6 mbsf
METERS
SECTION
lightness
40
68
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
140
142
144
146
1
2
3
4
5
6
SS
SS
SS
PAL
Major Lithology:
Light greenish gray (5Y 7/1) RADIOLARIAN AND NANNOFOSSIL CHALK WITH FORAMINIFERS
General Description:
The core is pervasively bioturbated and mottled light greenish gray chalk with light gray infill of burrows, mostly Planolites and the occasional Chondrites. A small slump or minor fault is at the top of Section 2 at 6 cm, but there is no change in lithology across it. In Section 2 there are subtle light/dark cycles on a scale of 50 cm and increasingly discrete Planolites, which continues to the bottom of the core. In the CC there are clusters of pyrite framboids, 1-2 cm in diameter.

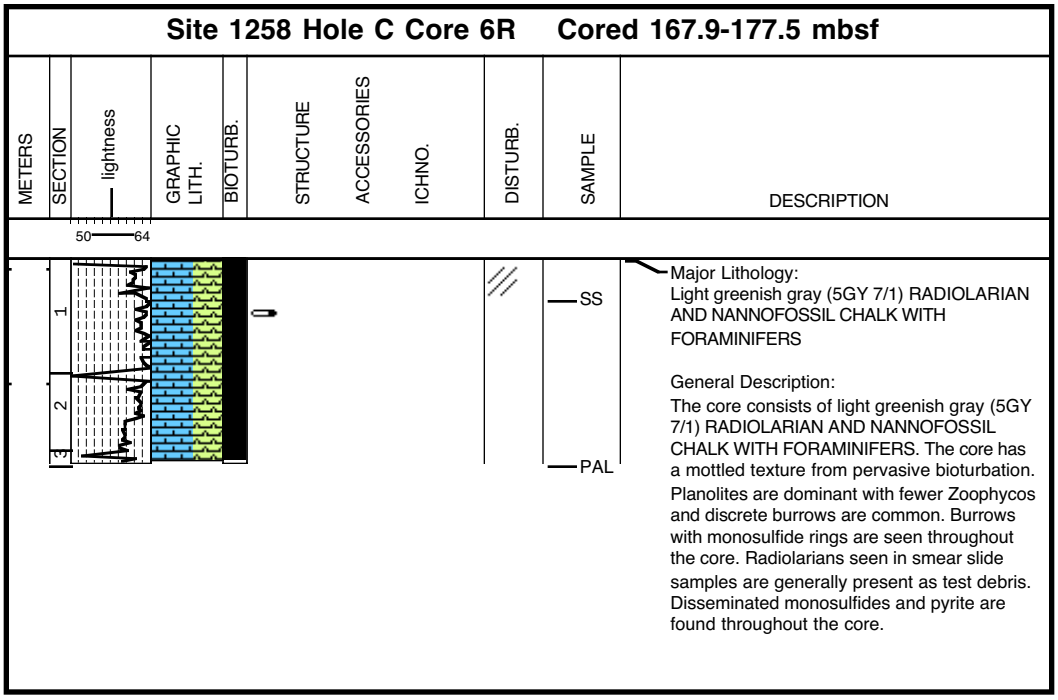
Core Photo


Site 1258 Hole C Core 4R Cored 148.6-158.2 mbsf
METERS
SECTION
lightness
54
67
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
150
152
154
156
1
2
3
4
5
6
7
SS
SS
PAL
Major Lithologies:
Light greenish gray (5GY 7/1) RADIOLARIAN AND NANNOFOSSIL CHALK and light greenish gray (5GY 7/1) NANNOFOSSIL AND RADIOLARIAN CHALK WITH FORAMINIFERS
Minor Lithology:
Light greenish gray (5GY 7/1) RADIOLARIAN AND NANNOFOSSIL CHALK WITH FORAMINIFERS
General Description:
The core consists of light greenish gray (5GY 7/1) RADIOLARIAN AND NANNOFOSSIL CHALK and light greenish gray (5GY 7/1) NANNOFOSSIL AND RADIOLARIAN CHALK WITH FORAMINIFERS. The core has a mottled texture, which increases downcore, that is from pervasive bioturbation. Discrete burrows were not common, but where observed Planolites are dominant with fewer Zoophycos. Burrows with monosulfide rings are increasingly more common downcore. Radiolarians seen in smear slide samples are generally present as test debris.

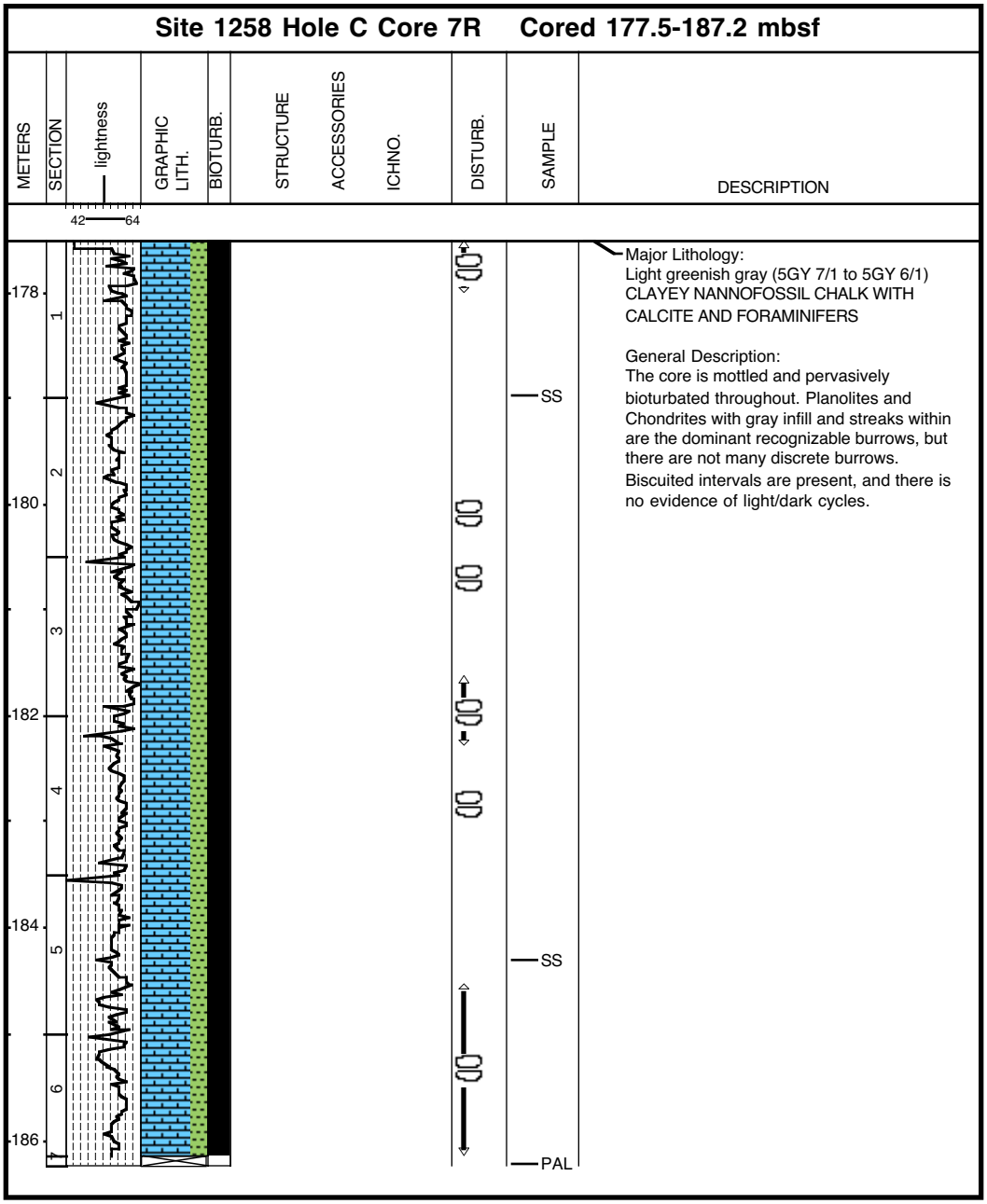
Core Photo


Site 1258 Hole C Core 5R Cored 158.2-167.9 mbsf
METERS
SECTION
lightness
49
68
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
160
162
164
166
1
2
3
4
5
6
SS
SS
PAL
Py
Major Lithology:
Light greenish gray (5GY 7/1) RADIOLARIAN AND NANNOFOSSIL CHALK WITH FORAMINIFERS and light greenish gray (5GY 7/1) NANNOFOSSIL AND RADIOLARIAN CHALK WITH FORAMINIFERS.
General Description:
The core consists of (5GY 7/1) (5GY 7/1) RADIOLARIAN AND NANNOFOSSIL CHALK WITH FORAMINIFERS and light greenish gray (5GY 7/1) NANNOFOSSIL AND RADIOLARIAN CHALK WITH FORAMINIFERS. The core has a mottled texture from pervasive bioturbation. Discrete burrows were more common than Core 4. Planolites are dominant with fewer Zoophycos. Burrows with monosulfide rings are seen throughout the core. Radiolarians seen in smear slide samples are generally present as test debris. Dissolutions layers are found in Sections 4 and 5, 60 and 61 cm, respectively. Disseminated monosulfides and pyrite increase downcore.

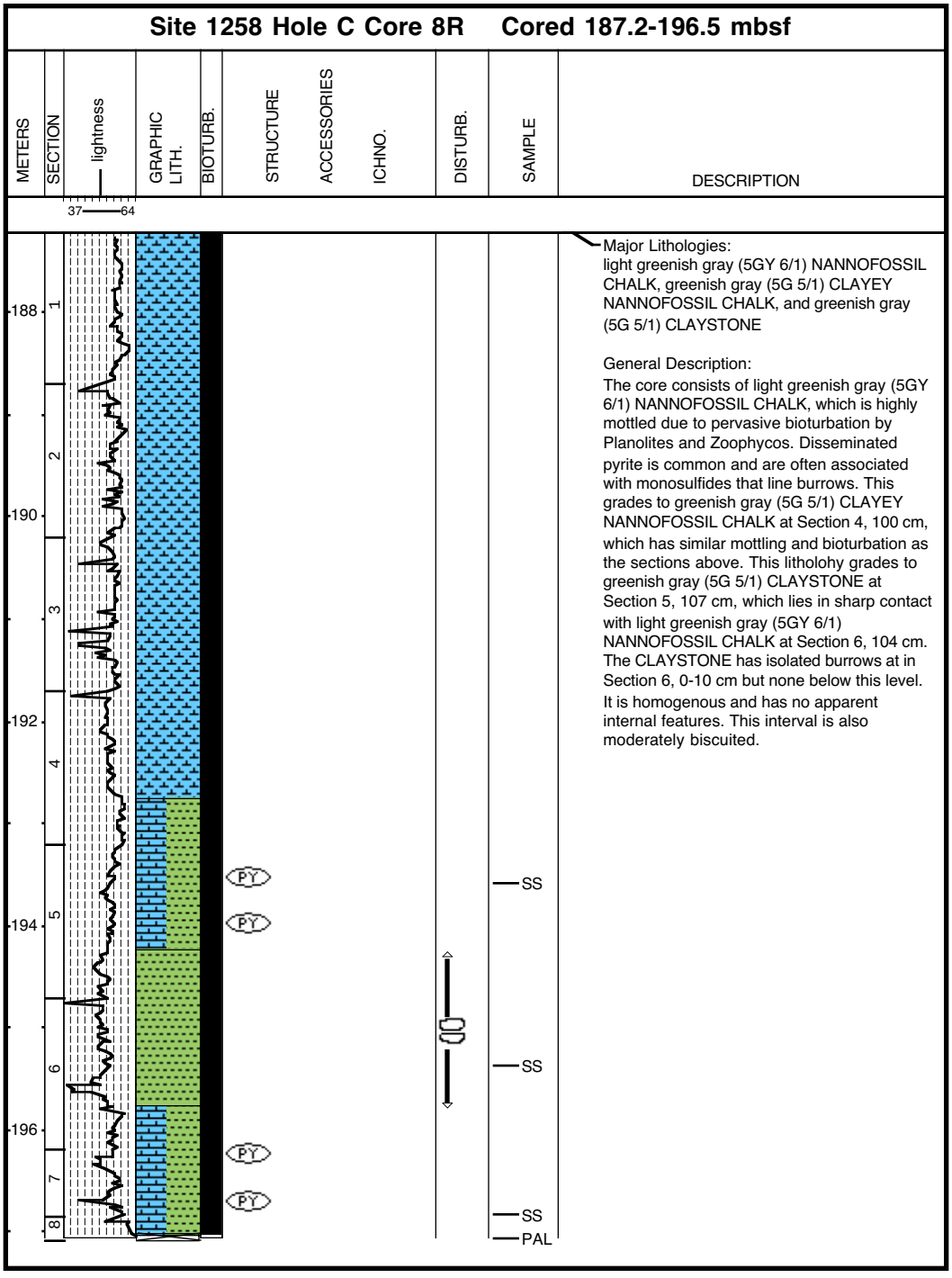
Core Photo


Site 1258 Hole C Core 6R Cored 167.9-177.5 mbsf
METERS
SECTION
lightness
50
64
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
1
2
3
SS
PAL
Major Lithology:
Light greenish gray (5GY 7/1) RADIOLARIAN AND NANNOFOSSIL CHALK WITH FORAMINIFERS
General Description:
The core consists of light greenish gray (5GY 7/1) RADIOLARIAN AND NANNOFOSSIL CHALK WITH FORAMINIFERS. The core has a mottled texture from pervasive bioturbation. Planolites are dominant with fewer Zoophycos and discrete burrows are common. Burrows with monosulfide rings are seen throughout the core. Radiolarians seen in smear slide samples are generally present as test debris. Disseminated monosulfides and pyrite are found throughout the core.

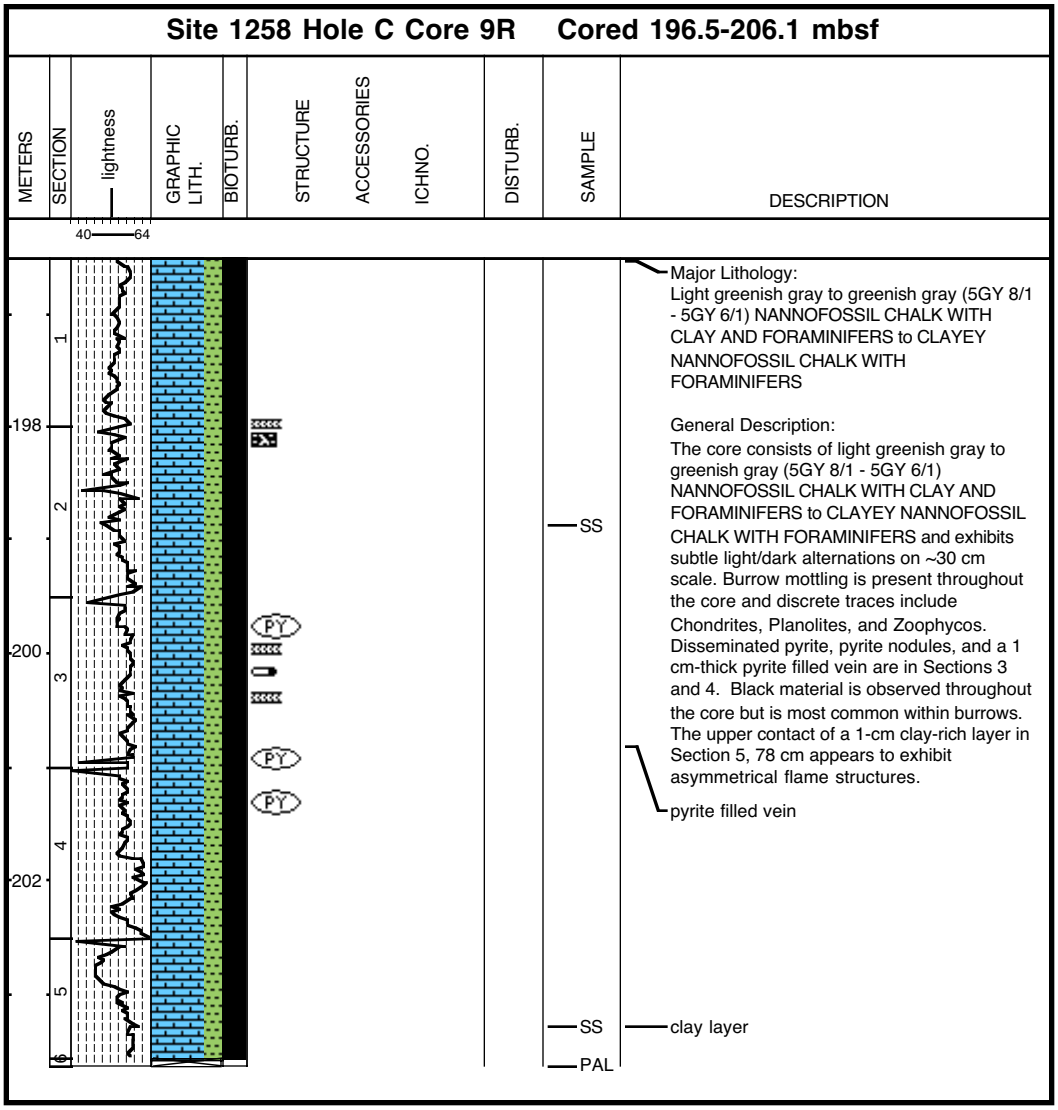
Core Photo


Site 1258 Hole C Core 7R Cored 177.5-187.2 mbsf
METERS
SECTION
lightness
42
64
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
178
180
182
184
186
1
2
3
4
5
6
SS
SS
PAL
Major Lithology:
Light greenish gray (5GY 7/1 to 5GY 6/1)
CLAYEY NANNOFOSSIL CHALK WITH
CALCITE AND FORAMINIFERS
General Description:
The core is mottled and pervasively
bioturbated throughout. Planolites and
Chondrites with gray infill and streaks within
are the dominant recognizable burrows, but
there are not many discrete burrows.
Biscuited intervals are present, and there is
no evidence of light/dark cycles.

Core Photo


Site 1258 Hole C Core 8R Cored 187.2-196.5 mbsf
METERS
SECTION
lightness
37
64
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
188
190
192
194
196
1
2
3
4
5
6
7
8
PY
PY
PY
PY
SS
SS
SS
PAL
Major Lithologies:
light greenish gray (5GY 6/1) NANNOFOSSIL CHALK, greenish gray (5G 5/1) CLAYEY NANNOFOSSIL CHALK, and greenish gray (5G 5/1) CLAYSTONE
General Description:
The core consists of light greenish gray (5GY 6/1) NANNOFOSSIL CHALK, which is highly mottled due to pervasive bioturbation by Planolites and Zoophycos. Disseminated pyrite is common and are often associated with monosulfides that line burrows. This grades to greenish gray (5G 5/1) CLAYEY NANNOFOSSIL CHALK at Section 4, 100 cm, which has similar mottling and bioturbation as the sections above. This litholohy grades to greenish gray (5G 5/1) CLAYSTONE at Section 5, 107 cm, which lies in sharp contact with light greenish gray (5GY 6/1) NANNOFOSSIL CHALK at Section 6, 104 cm. The CLAYSTONE has isolated burrows at in Section 6, 0-10 cm but none below this level. It is homogenous and has no apparent internal features. This interval is also moderately biscuited.

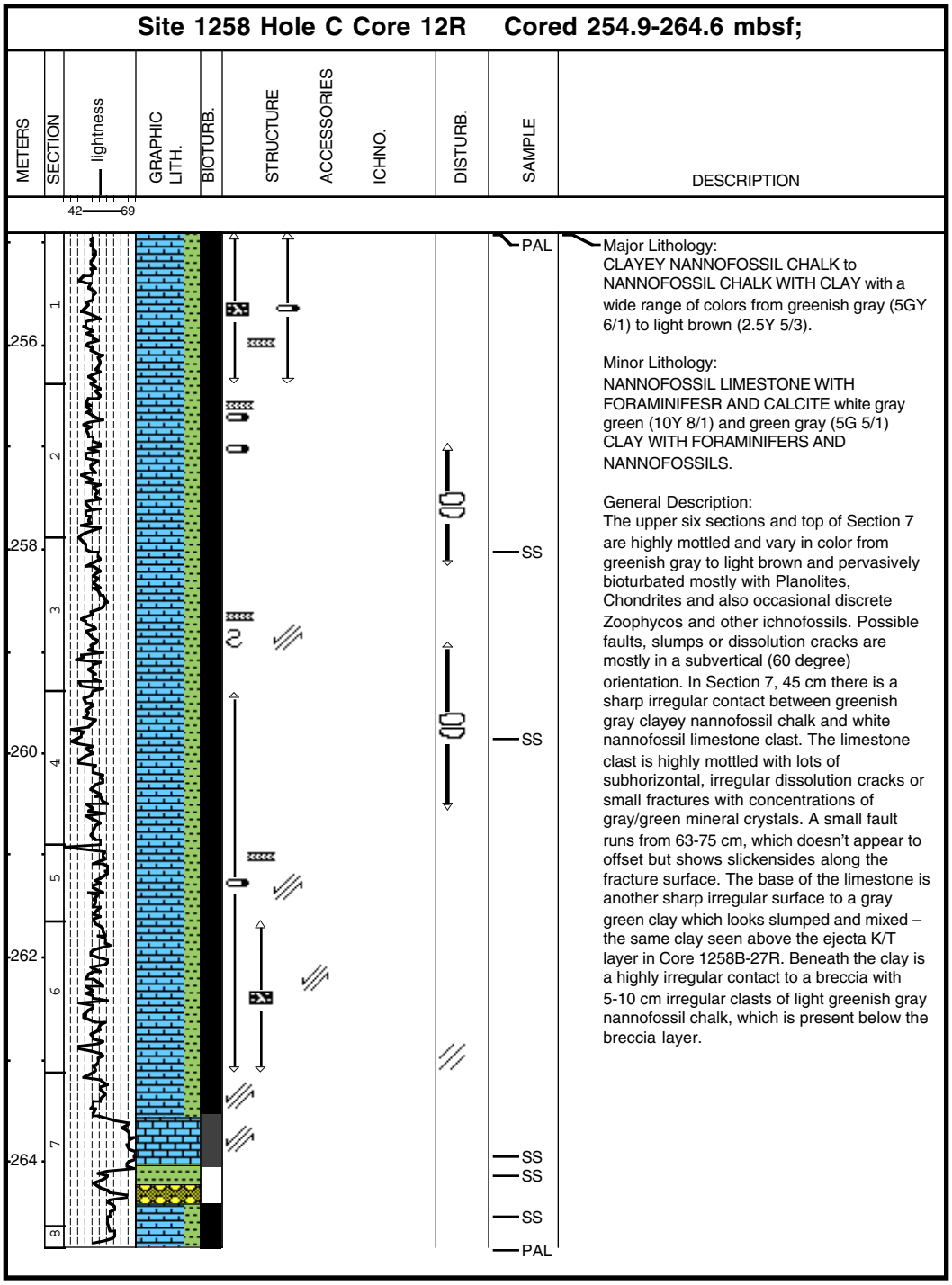
Core Photo



1258C-10R ENTIRE CORE GIVEN TO PALEONTOLOGISTS.

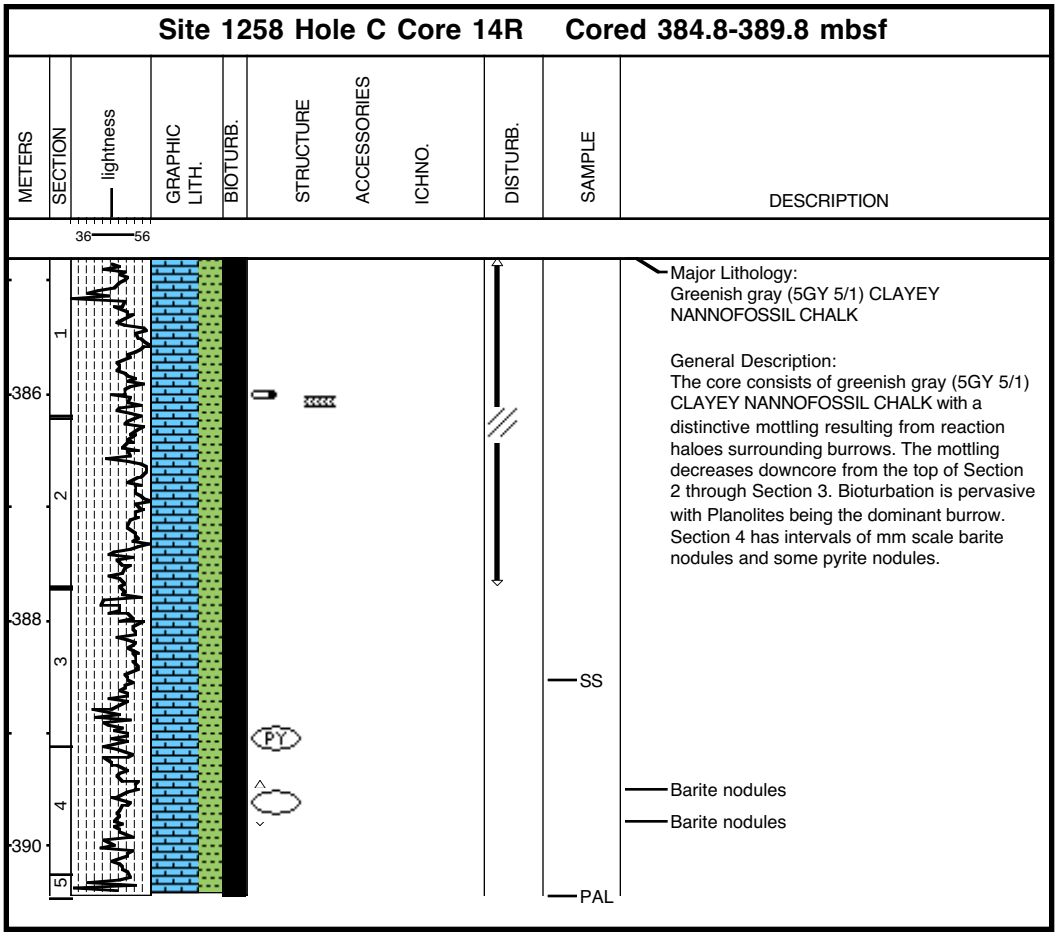
1258C-11R NO RECOVERY

Core Photo

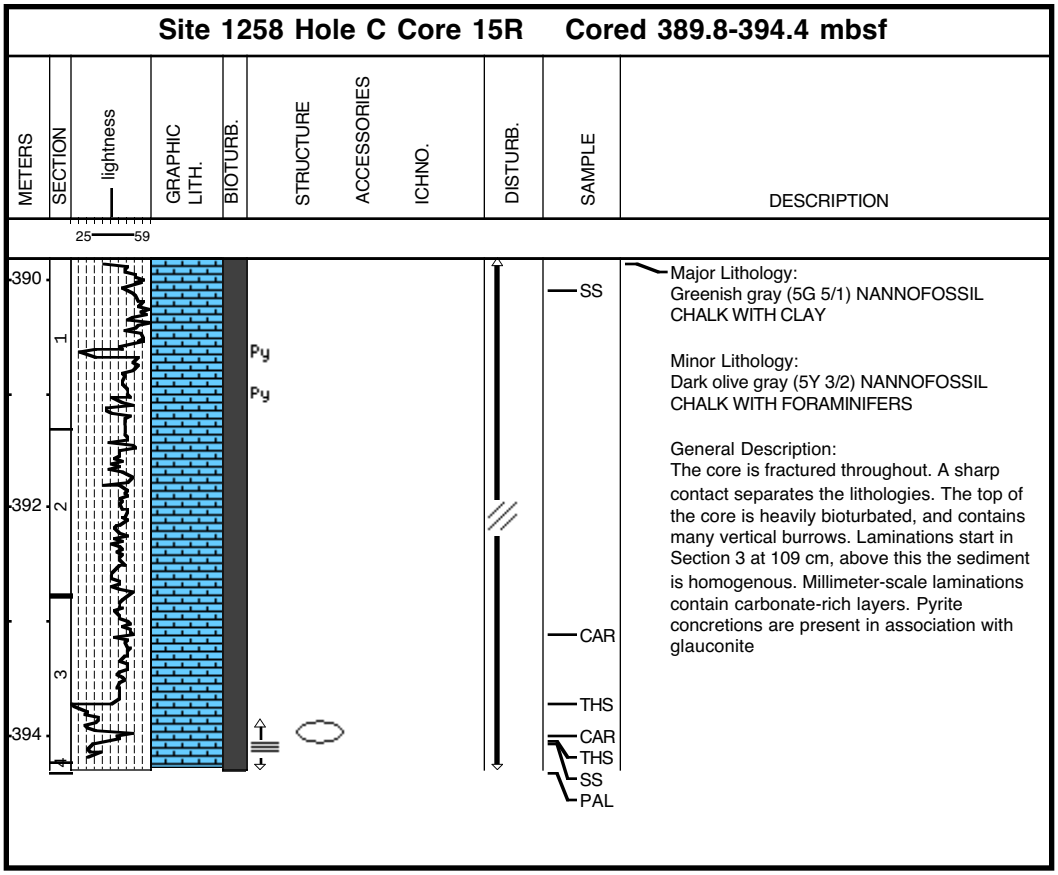


1258C-13R ENTIRE CORE GIVEN TO PALEONTOLOGISTS.

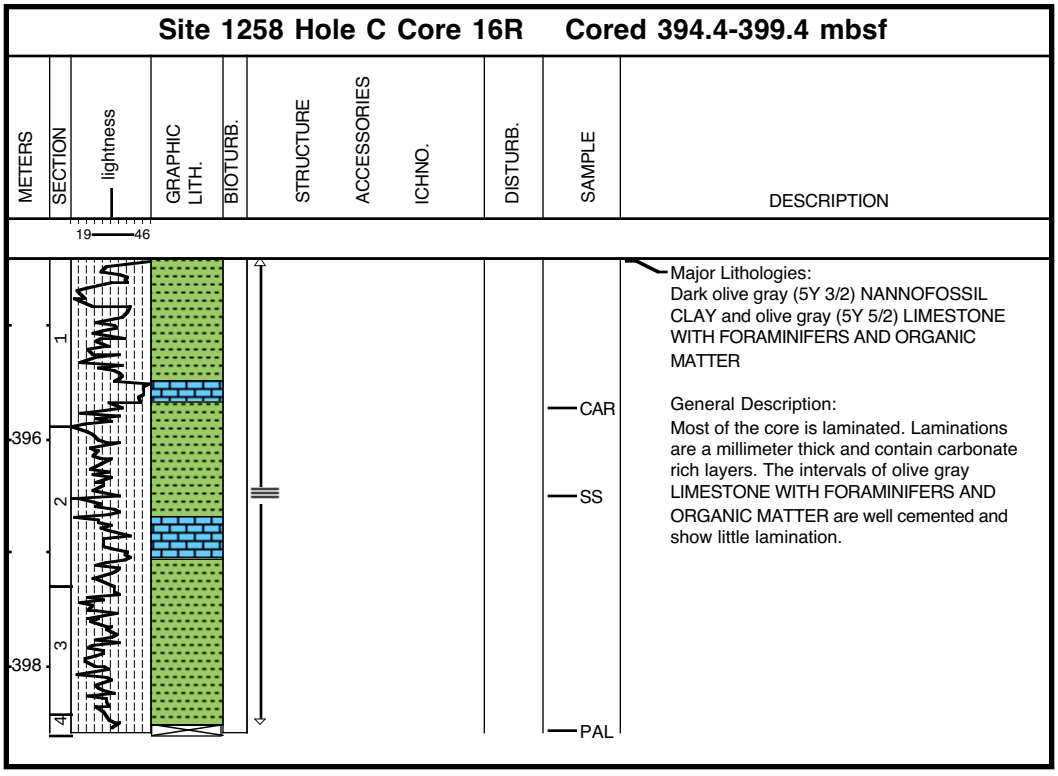
Core Photo


Site 1258 Hole C Core 14R Cored 384.8-389.8 mbsf
METERS
SECTION
lightness
36
56
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
386
388
390
1
2
3
4
5
PY
SS
PAL
Major Lithology:
Greenish gray (5GY 5/1) CLAYEY NANNOFOSSIL CHALK
General Description:
The core consists of greenish gray (5GY 5/1) CLAYEY NANNOFOSSIL CHALK with a distinctive mottling resulting from reaction haloes surrounding burrows. The mottling decreases downcore from the top of Section 2 through Section 3. Bioturbation is pervasive with Planolites being the dominant burrow. Section 4 has intervals of mm scale barite nodules and some pyrite nodules.
Barite nodules
Barite nodules

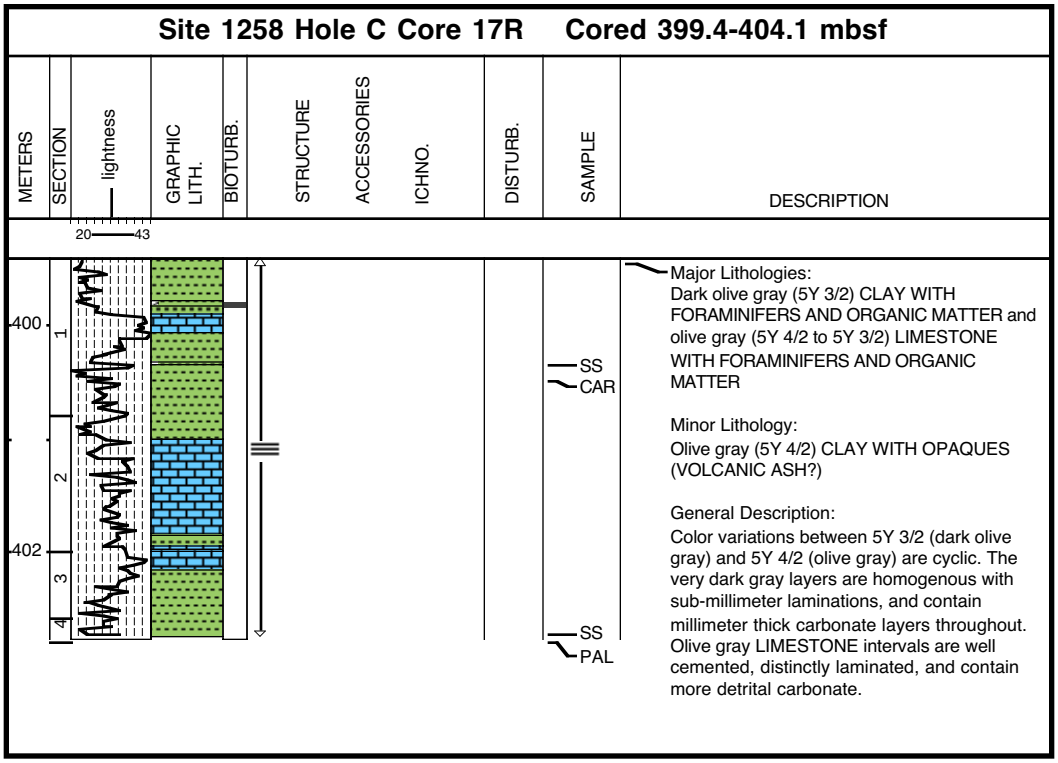
Core Photo


Site 1258 Hole C Core 15R Cored 389.8-394.4 mbsf
METERS
SECTION
lightness
25
59
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
390
392
394
1
2
3
4
Py
Py
SS
CAR
THS
CAR
THS
SS
PAL
Major Lithology:
Greenish gray (5G 5/1) NANNOFOSSIL CHALK WITH CLAY
Minor Lithology:
Dark olive gray (5Y 3/2) NANNOFOSSIL CHALK WITH FORAMINIFERS
General Description:
The core is fractured throughout. A sharp contact separates the lithologies. The top of the core is heavily bioturbated, and contains many vertical burrows. Laminations start in Section 3 at 109 cm, above this the sediment is homogenous. Millimeter-scale laminations contain carbonate-rich layers. Pyrite concretions are present in association with glauconite

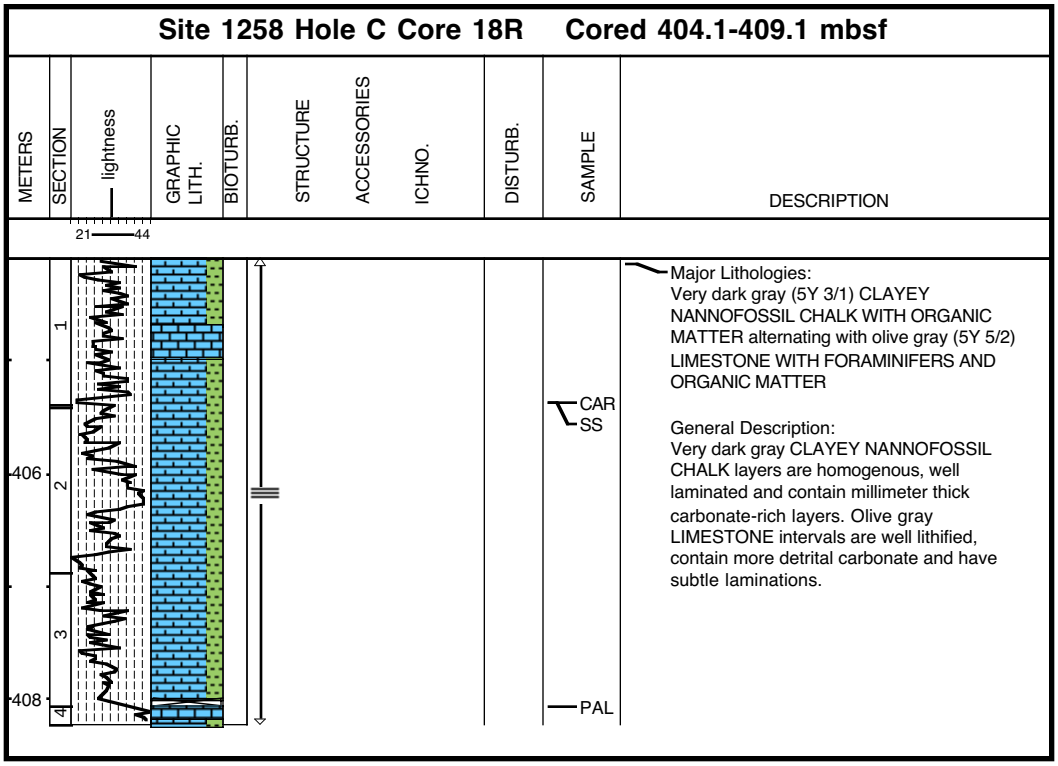
Core Photo


Site 1258 Hole C Core 16R Cored 394.4-399.4 mbsf
METERS
SECTION
lightness
19
46
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
396
398
1
2
3
4
CAR
SS
PAL
Major Lithologies:
Dark olive gray (5Y 3/2) NANNOFOSSIL CLAY and olive gray (5Y 5/2) LIMESTONE WITH FORAMINIFERS AND ORGANIC MATTER
General Description:
Most of the core is laminated. Laminations are a millimeter thick and contain carbonate rich layers. The intervals of olive gray LIMESTONE WITH FORAMINIFERS AND ORGANIC MATTER are well cemented and show little lamination.

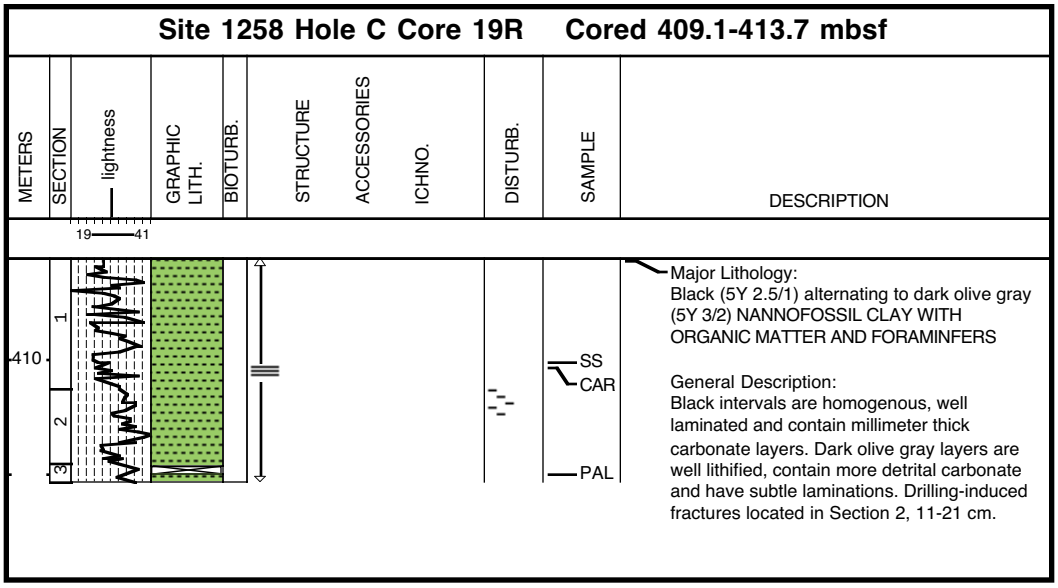
Core Photo


Site 1258 Hole C Core 17R Cored 399.4-404.1 mbsf
METERS
SECTION
lightness
20
43
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
400
402
1
2
3
4
SS
CAR
SS
PAL
Major Lithologies:
Dark olive gray (5Y 3/2) CLAY WITH FORAMINIFERS AND ORGANIC MATTER and olive gray (5Y 4/2 to 5Y 3/2) LIMESTONE WITH FORAMINIFERS AND ORGANIC MATTER
Minor Lithology:
Olive gray (5Y 4/2) CLAY WITH OPAQUES (VOLCANIC ASH?)
General Description:
Color variations between 5Y 3/2 (dark olive gray) and 5Y 4/2 (olive gray) are cyclic. The very dark gray layers are homogenous with sub-millimeter laminations, and contain millimeter thick carbonate layers throughout. Olive gray LIMESTONE intervals are well cemented, distinctly laminated, and contain more detrital carbonate.

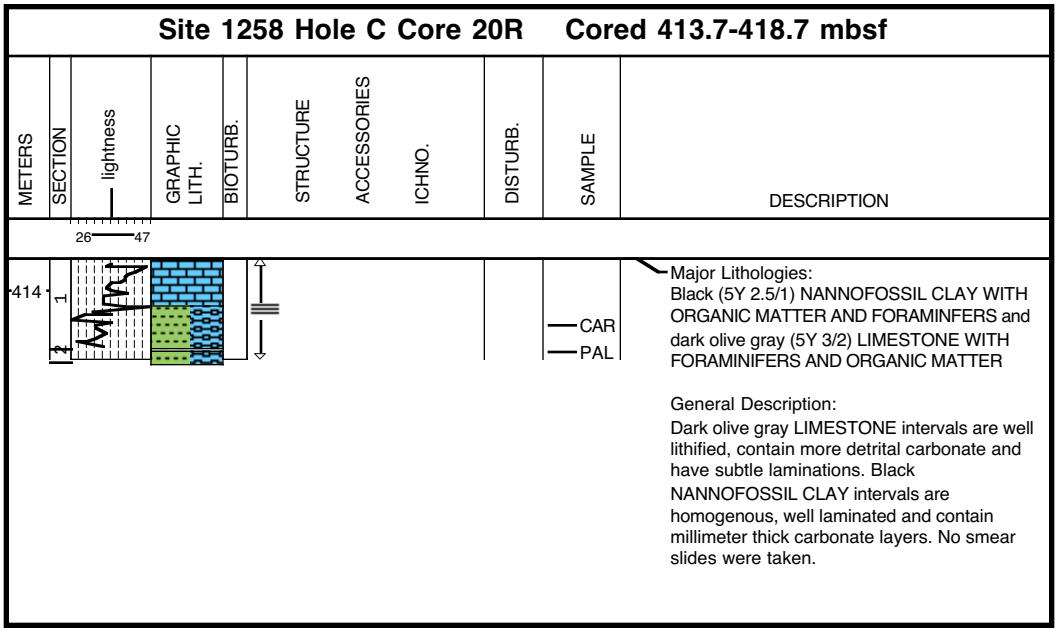
Core Photo


Site 1258 Hole C Core 18R Cored 404.1-409.1 mbsf
METERS
SECTION
lightness
21
44
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
406
408
1
2
3
4
CAR
SS
PAL
Major Lithologies:
Very dark gray (5Y 3/1) CLAYEY NANNOFOSSIL CHALK WITH ORGANIC MATTER alternating with olive gray (5Y 5/2) LIMESTONE WITH FORAMINIFERS AND ORGANIC MATTER
General Description:
Very dark gray CLAYEY NANNOFOSSIL CHALK layers are homogenous, well laminated and contain millimeter thick carbonate-rich layers. Olive gray LIMESTONE intervals are well lithified, contain more detrital carbonate and have subtle laminations.

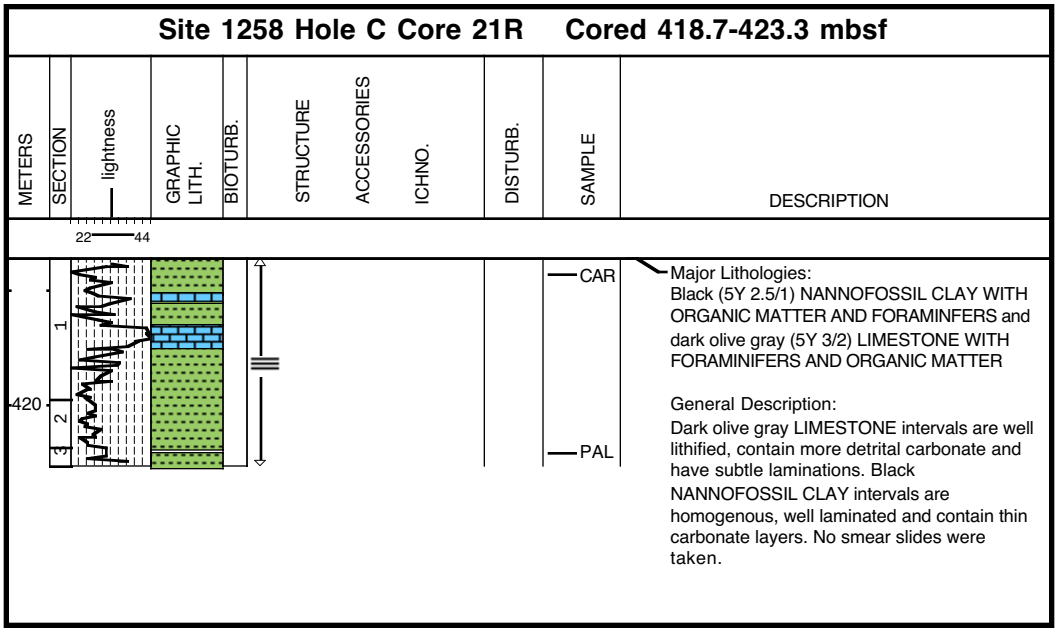
Core Photo


Site 1258 Hole C Core 19R Cored 409.1-413.7 mbsf
METERS
SECTION
lightness
19
41
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
410
1
2
3
SS
CAR
PAL
Major Lithology:
Black (5Y 2.5/1) alternating to dark olive gray (5Y 3/2) NANNOFOSSIL CLAY WITH ORGANIC MATTER AND FORAMINFERS
General Description:
Black intervals are homogenous, well laminated and contain millimeter thick carbonate layers. Dark olive gray layers are well lithified, contain more detrital carbonate and have subtle laminations. Drilling-induced fractures located in Section 2, 11-21 cm.

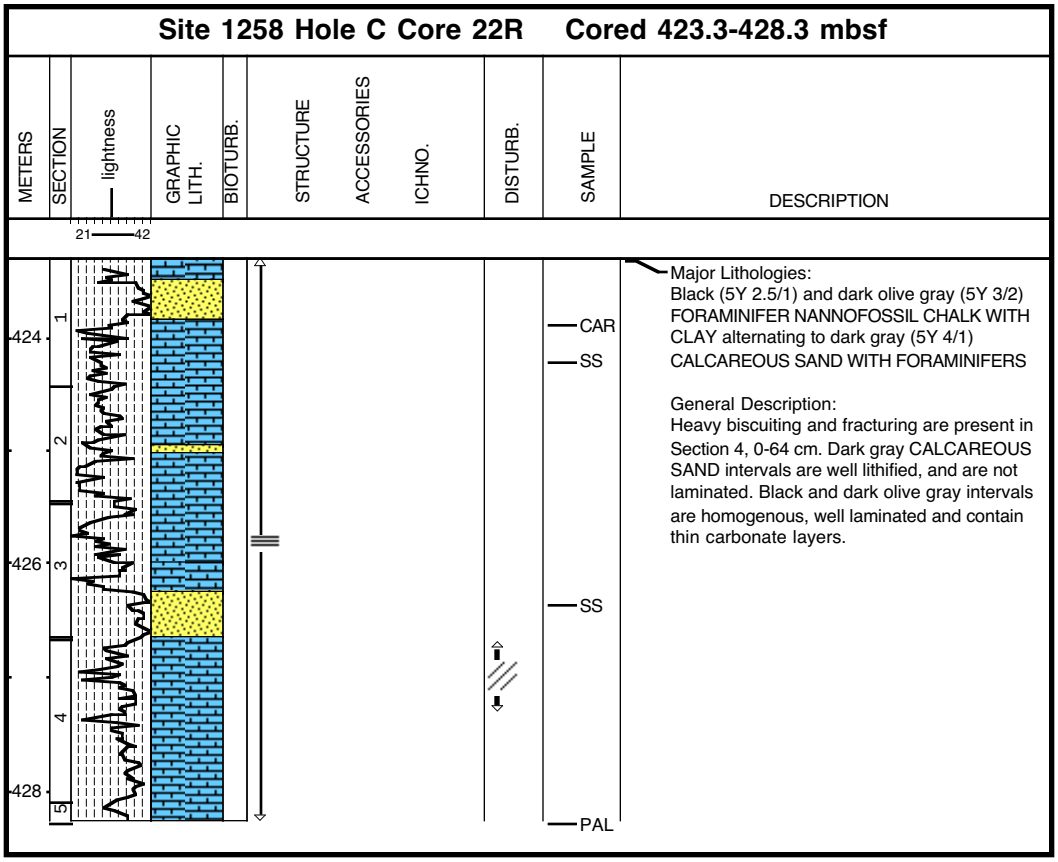
Core Photo


Site 1258 Hole C Core 20R Cored 413.7-418.7 mbsf
METERS
SECTION
lightness
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
26
47
414
1
2
CAR
PAL
Major Lithologies:
Black (5Y 2.5/1) NANNOFOSSIL CLAY WITH ORGANIC MATTER AND FORAMINFERS and dark olive gray (5Y 3/2) LIMESTONE WITH FORAMINIFERS AND ORGANIC MATTER
General Description:
Dark olive gray LIMESTONE intervals are well lithified, contain more detrital carbonate and have subtle laminations. Black NANNOFOSSIL CLAY intervals are homogenous, well laminated and contain millimeter thick carbonate layers. No smear slides were taken.

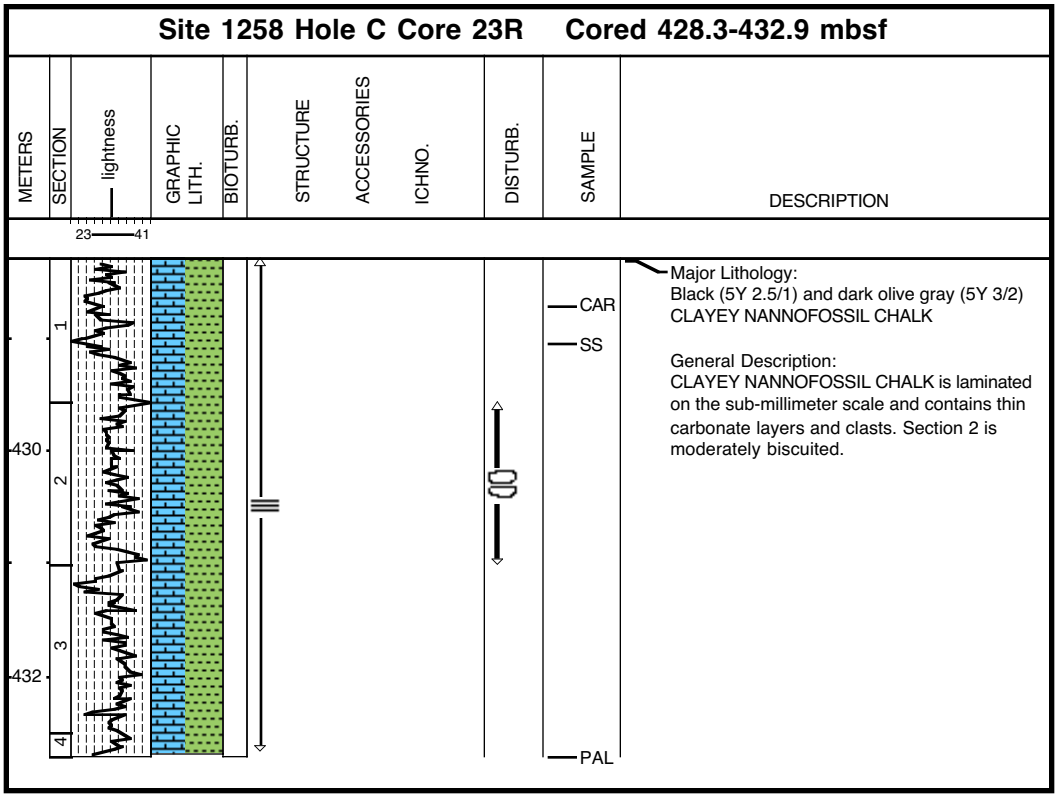
Core Photo


Site 1258 Hole C Core 21R Cored 418.7-423.3 mbsf
METERS
SECTION
lightness
22
44
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
420
1
2
3
CAR
PAL
Major Lithologies:
Black (5Y 2.5/1) NANNOFOSSIL CLAY WITH ORGANIC MATTER AND FORAMINFERS and dark olive gray (5Y 3/2) LIMESTONE WITH FORAMINIFERS AND ORGANIC MATTER
General Description:
Dark olive gray LIMESTONE intervals are well lithified, contain more detrital carbonate and have subtle laminations. Black NANNOFOSSIL CLAY intervals are homogenous, well laminated and contain thin carbonate layers. No smear slides were taken.

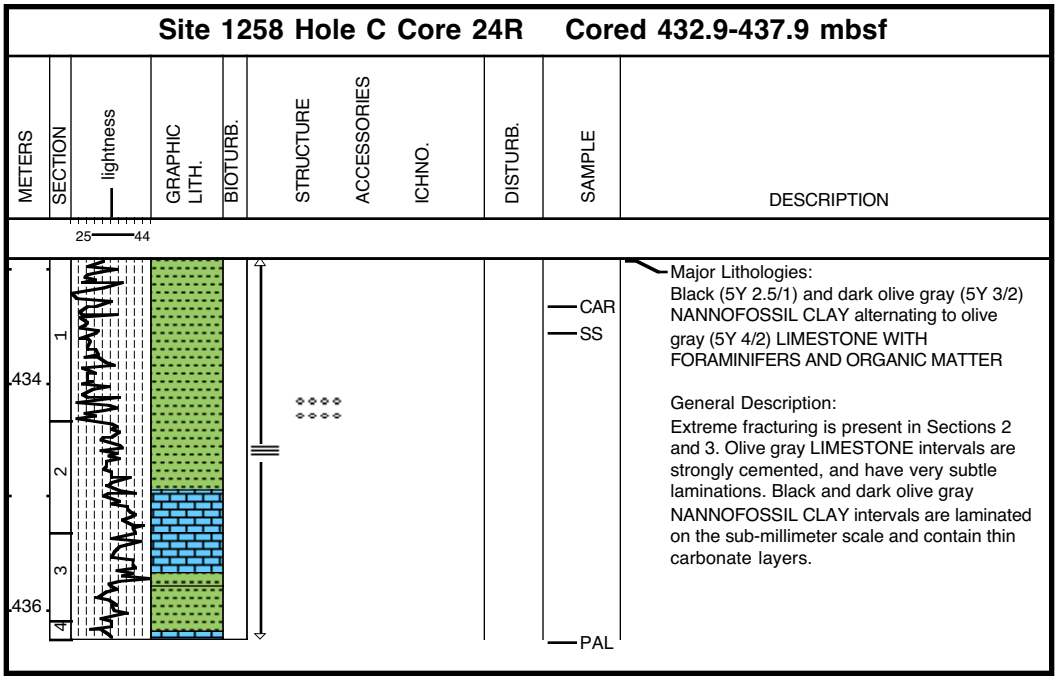
Core Photo


Site 1258 Hole C Core 22R Cored 423.3-428.3 mbsf
METERS
SECTION
lightness
21
42
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
424
426
428
1
2
3
4
5
CAR
SS
SS
PAL
Major Lithologies:
Black (5Y 2.5/1) and dark olive gray (5Y 3/2) FORAMINIFER NANNOFOSSIL CHALK WITH CLAY alternating to dark gray (5Y 4/1) CALCAREOUS SAND WITH FORAMINIFERS
General Description:
Heavy biscuiting and fracturing are present in Section 4, 0-64 cm. Dark gray CALCAREOUS SAND intervals are well lithified, and are not laminated. Black and dark olive gray intervals are homogenous, well laminated and contain thin carbonate layers.

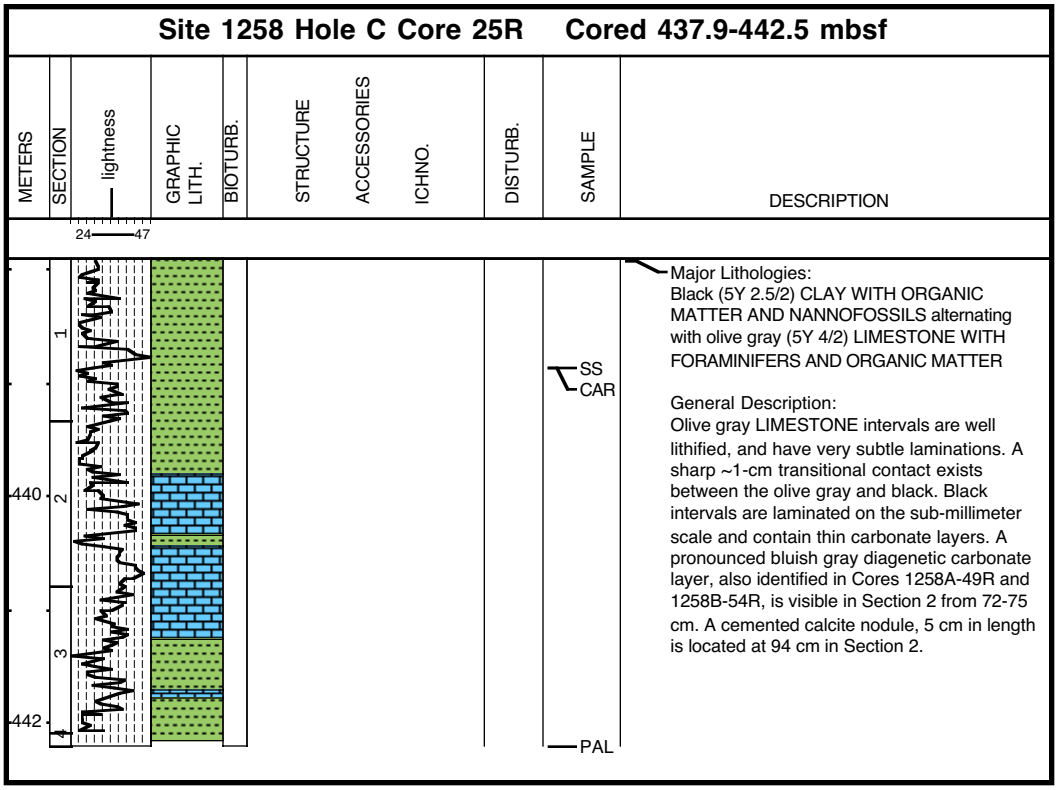
Core Photo


Site 1258 Hole C Core 23R Cored 428.3-432.9 mbsf
METERS
SECTION
lightness
23
41
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
430
432
1
2
3
4
CAR
SS
PAL
Major Lithology:
Black (5Y 2.5/1) and dark olive gray (5Y 3/2)
CLAYEY NANNOFOSSIL CHALK
General Description:
CLAYEY NANNOFOSSIL CHALK is laminated on the sub-millimeter scale and contains thin carbonate layers and clasts. Section 2 is moderately biscuited.

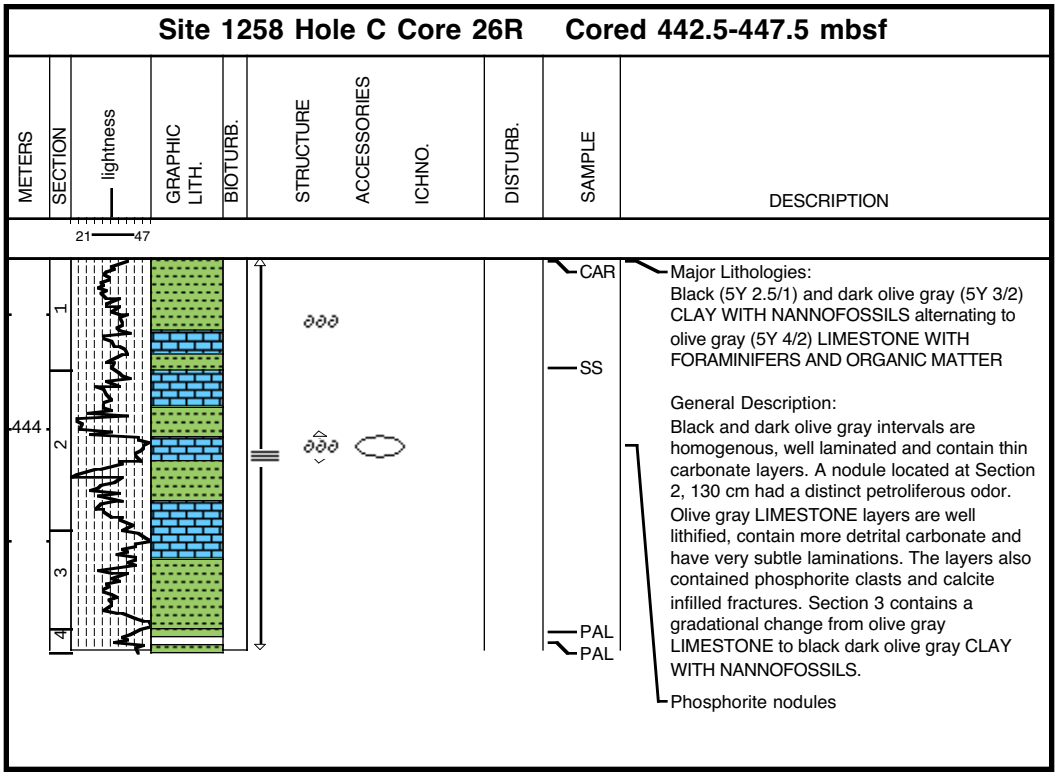
Core Photo


Site 1258 Hole C Core 24R Cored 432.9-437.9 mbsf
METERS
SECTION
lightness
25
44
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
434
436
1
2
3
4
CAR
SS
PAL
Major Lithologies:
Black (5Y 2.5/1) and dark olive gray (5Y 3/2) NANNOFOSSIL CLAY alternating to olive gray (5Y 4/2) LIMESTONE WITH FORAMINIFERS AND ORGANIC MATTER
General Description:
Extreme fracturing is present in Sections 2 and 3. Olive gray LIMESTONE intervals are strongly cemented, and have very subtle laminations. Black and dark olive gray NANNOFOSSIL CLAY intervals are laminated on the sub-millimeter scale and contain thin carbonate layers.

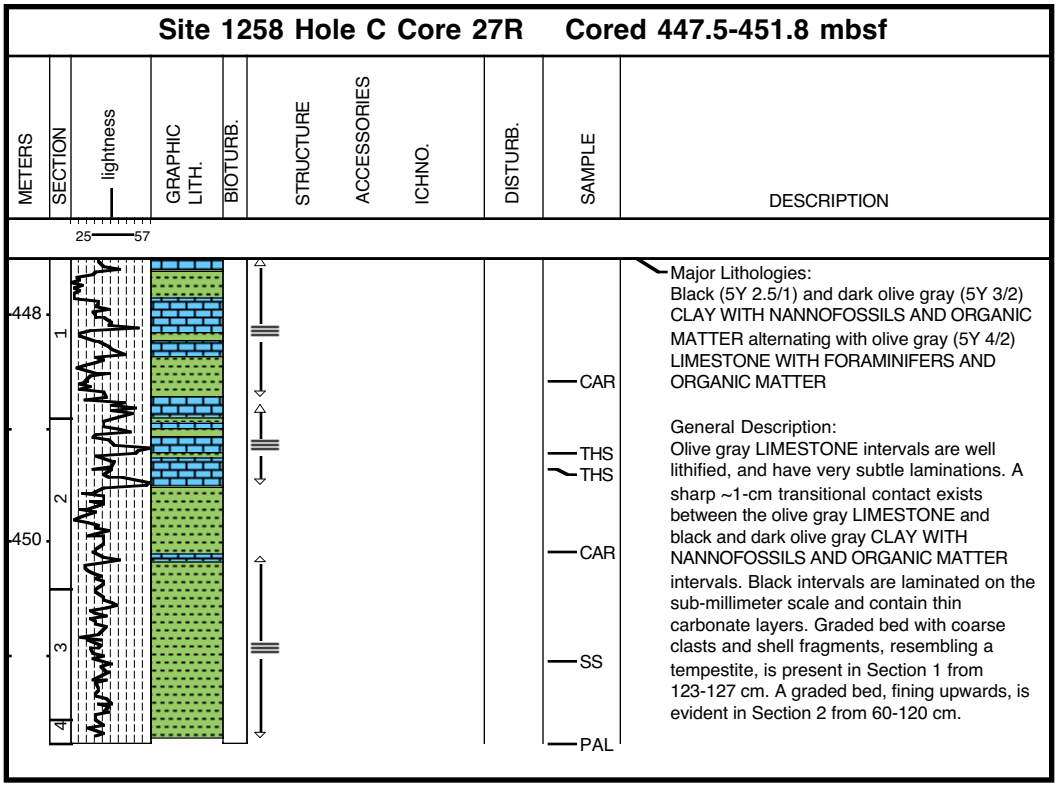
Core Photo


Site 1258 Hole C Core 25R Cored 437.9-442.5 mbsf
METERS
SECTION
lightness
24
47
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
440
442
1
2
3
4
SS
CAR
PAL
Major Lithologies:
Black (5Y 2.5/2) CLAY WITH ORGANIC MATTER AND NANNOFOSSILS alternating with olive gray (5Y 4/2) LIMESTONE WITH FORAMINIFERS AND ORGANIC MATTER
General Description:
Olive gray LIMESTONE intervals are well lithified, and have very subtle laminations. A sharp ~1-cm transitional contact exists between the olive gray and black. Black intervals are laminated on the sub-millimeter scale and contain thin carbonate layers. A pronounced bluish gray diagenetic carbonate layer, also identified in Cores 1258A-49R and 1258B-54R, is visible in Section 2 from 72-75 cm. A cemented calcite nodule, 5 cm in length is located at 94 cm in Section 2.

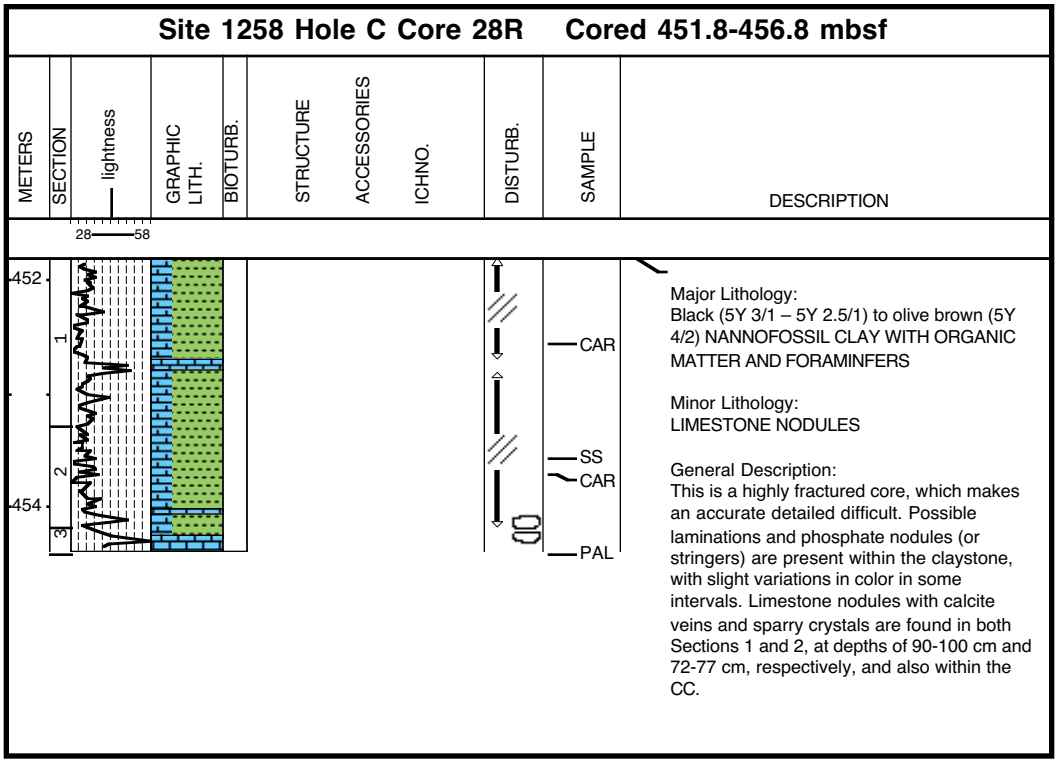
Core Photo


Site 1258 Hole C Core 26R Cored 442.5-447.5 mbsf
METERS
SECTION
lightness
21
47
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
444
1
2
3
4
CAR
SS
PAL
PAL
Major Lithologies:
Black (5Y 2.5/1) and dark olive gray (5Y 3/2) CLAY WITH NANNOFOSSILS alternating to olive gray (5Y 4/2) LIMESTONE WITH FORAMINIFERS AND ORGANIC MATTER
General Description:
Black and dark olive gray intervals are homogenous, well laminated and contain thin carbonate layers. A nodule located at Section 2, 130 cm had a distinct petroliferous odor. Olive gray LIMESTONE layers are well lithified, contain more detrital carbonate and have very subtle laminations. The layers also contained phosphorite clasts and calcite infilled fractures. Section 3 contains a gradational change from olive gray LIMESTONE to black dark olive gray CLAY WITH NANNOFOSSILS.
Phosphorite nodules

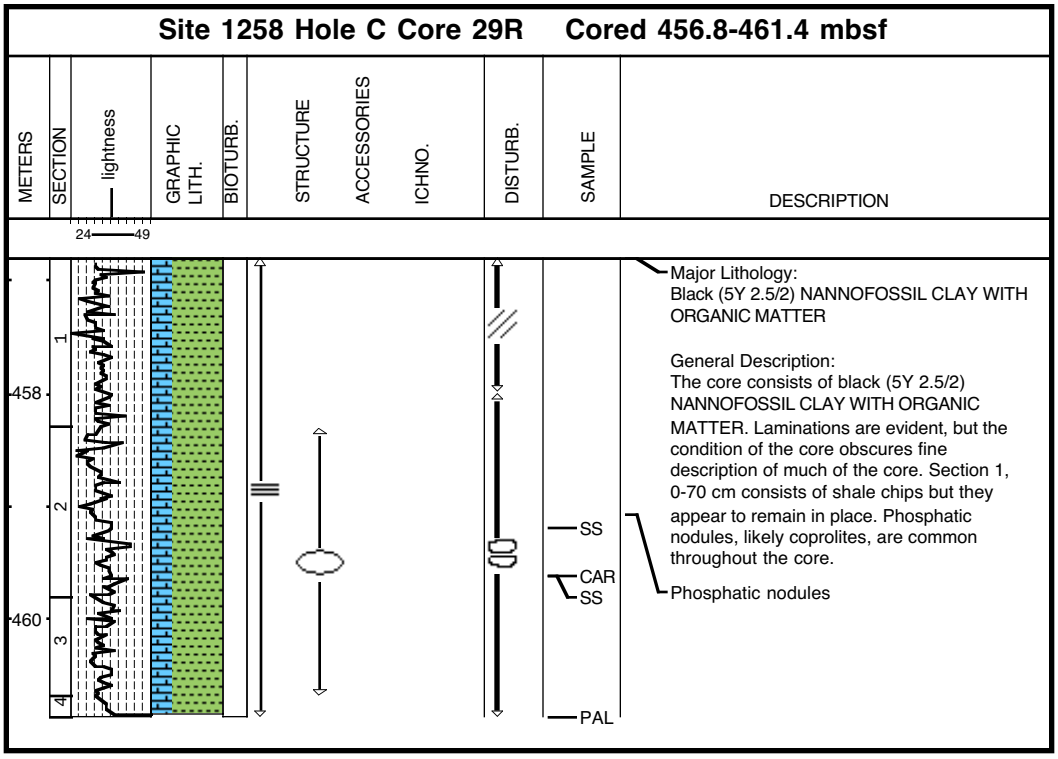
Core Photo


Site 1258 Hole C Core 27R Cored 447.5-451.8 mbsf
METERS
SECTION
lightness
25
57
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
448
450
1
2
3
4
CAR
THS
THS
CAR
SS
PAL
Major Lithologies:
Black (5Y 2.5/1) and dark olive gray (5Y 3/2) CLAY WITH NANNOFOSSILS AND ORGANIC MATTER alternating with olive gray (5Y 4/2) LIMESTONE WITH FORAMINIFERS AND ORGANIC MATTER
General Description:
Olive gray LIMESTONE intervals are well lithified, and have very subtle laminations. A sharp ~1-cm transitional contact exists between the olive gray LIMESTONE and black and dark olive gray CLAY WITH NANNOFOSSILS AND ORGANIC MATTER intervals. Black intervals are laminated on the sub-millimeter scale and contain thin carbonate layers. Graded bed with coarse clasts and shell fragments, resembling a tempestite, is present in Section 1 from 123-127 cm. A graded bed, fining upwards, is evident in Section 2 from 60-120 cm.

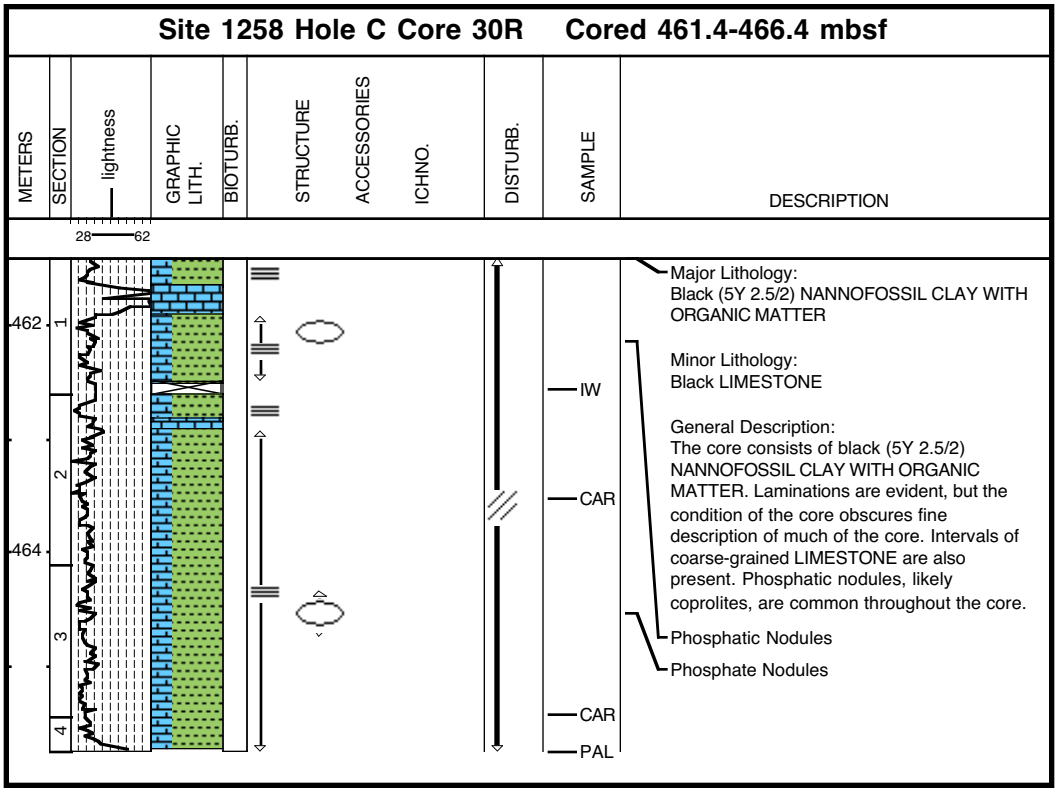
Core Photo


Site 1258 Hole C Core 28R Cored 451.8-456.8 mbsf
METERS
SECTION
lightness
28
58
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
452
454
1
2
3
CAR
SS
CAR
PAL
Major Lithology:
Black (5Y 3/1 – 5Y 2.5/1) to olive brown (5Y 4/2) NANNOFOSSIL CLAY WITH ORGANIC MATTER AND FORAMINFERS
Minor Lithology:
LIMESTONE NODULES
General Description:
This is a highly fractured core, which makes an accurate detailed difficult. Possible laminations and phosphate nodules (or stringers) are present within the claystone, with slight variations in color in some intervals. Limestone nodules with calcite veins and sparry crystals are found in both Sections 1 and 2, at depths of 90-100 cm and 72-77 cm, respectively, and also within the CC.

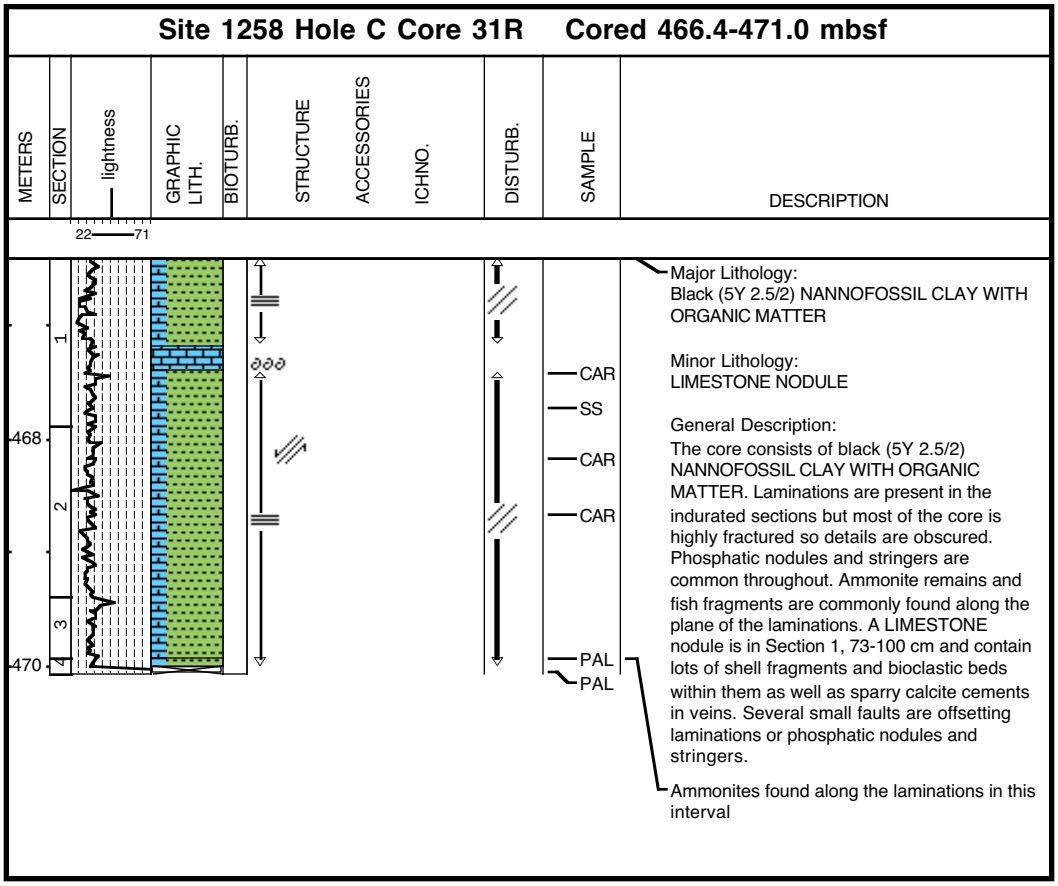
Core Photo


Site 1258 Hole C Core 29R Cored 456.8-461.4 mbsf
METERS
SECTION
lightness
24
49
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
458
460
1
2
3
4
SS
CAR
SS
PAL
Major Lithology:
Black (5Y 2.5/2) NANNOFOSSIL CLAY WITH ORGANIC MATTER
General Description:
The core consists of black (5Y 2.5/2) NANNOFOSSIL CLAY WITH ORGANIC MATTER. Laminations are evident, but the condition of the core obscures fine description of much of the core. Section 1, 0-70 cm consists of shale chips but they appear to remain in place. Phosphatic nodules, likely coprolites, are common throughout the core.
Phosphatic nodules

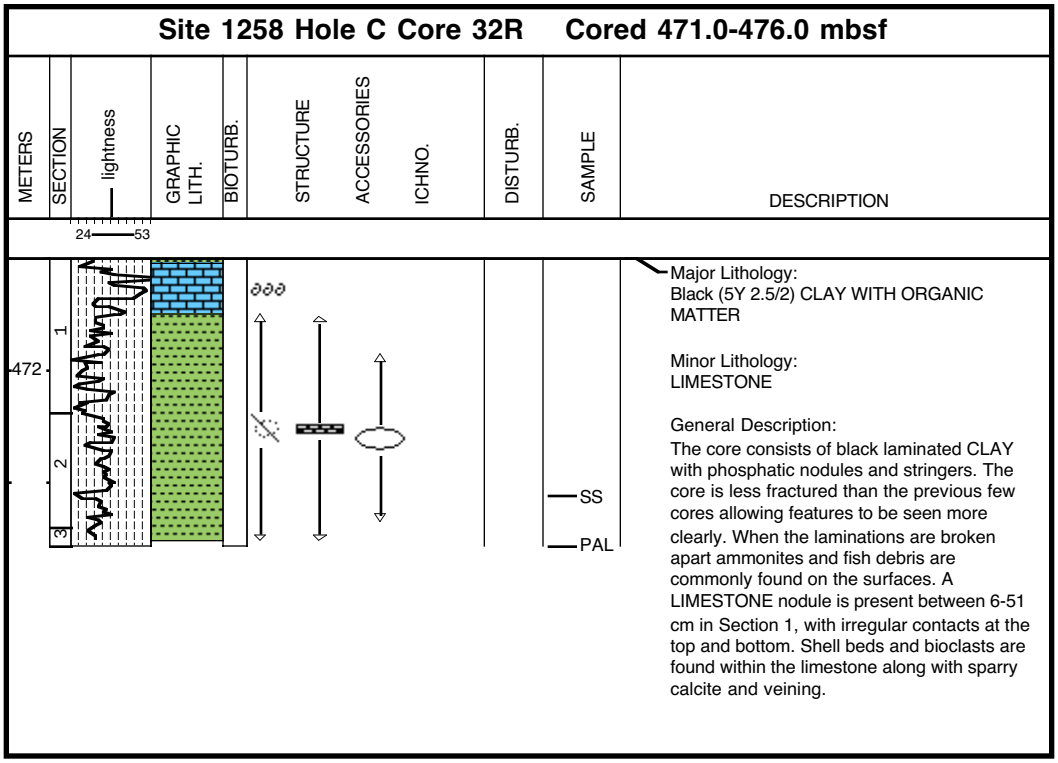
Core Photo


Site 1258 Hole C Core 30R Cored 461.4-466.4 mbsf
METERS
SECTION
lightness
28
62
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
462
464
1
2
3
4
IW
CAR
CAR
PAL
Major Lithology:
Black (5Y 2.5/2) NANNOFOSSIL CLAY WITH ORGANIC MATTER
Minor Lithology:
Black LIMESTONE
General Description:
The core consists of black (5Y 2.5/2) NANNOFOSSIL CLAY WITH ORGANIC MATTER. Laminations are evident, but the condition of the core obscures fine description of much of the core. Intervals of coarse-grained LIMESTONE are also present. Phosphatic nodules, likely coprolites, are common throughout the core.
Phosphatic Nodules
Phosphate Nodules

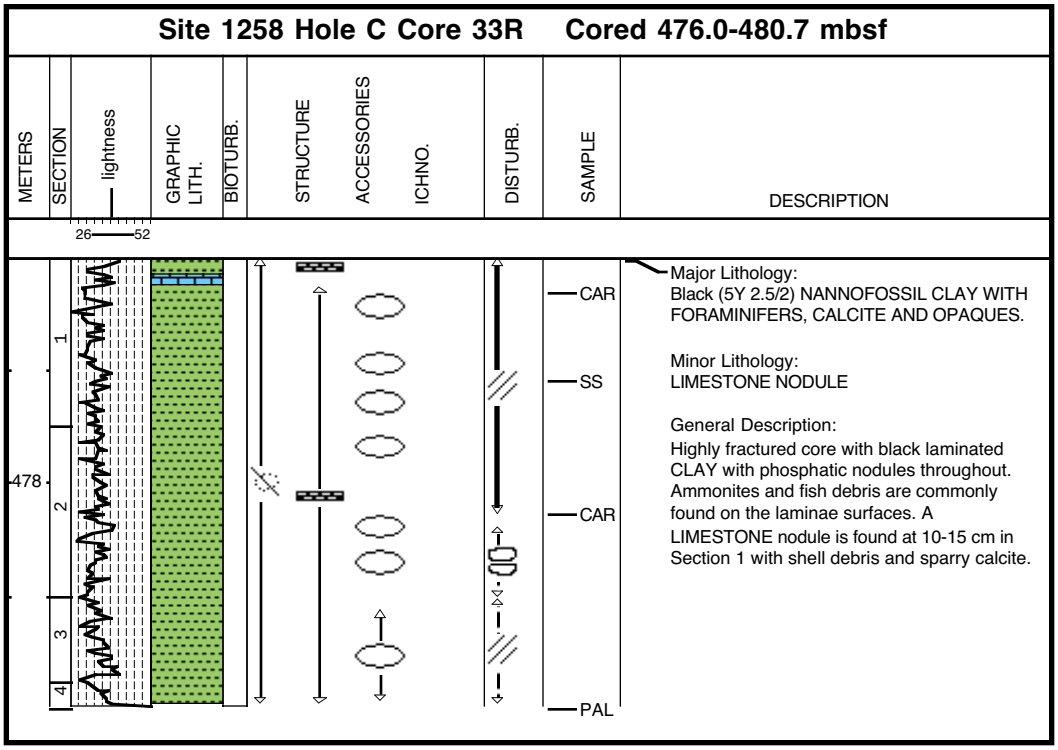
Core Photo


Site 1258 Hole C Core 31R Cored 466.4-471.0 mbsf
METERS
SECTION
lightness
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
22
71
468
470
1
2
3
4
CAR
SS
CAR
CAR
PAL
PAL
Major Lithology:
Black (5Y 2.5/2) NANNOFOSSIL CLAY WITH ORGANIC MATTER
Minor Lithology:
LIMESTONE NODULE
General Description:
The core consists of black (5Y 2.5/2) NANNOFOSSIL CLAY WITH ORGANIC MATTER. Laminations are present in the indurated sections but most of the core is highly fractured so details are obscured. Phosphatic nodules and stringers are common throughout. Ammonite remains and fish fragments are commonly found along the plane of the laminations. A LIMESTONE nodule is in Section 1, 73-100 cm and contain lots of shell fragments and bioclastic beds within them as well as sparry calcite cements in veins. Several small faults are offsetting laminations or phosphatic nodules and stringers.
Ammonites found along the laminations in this interval

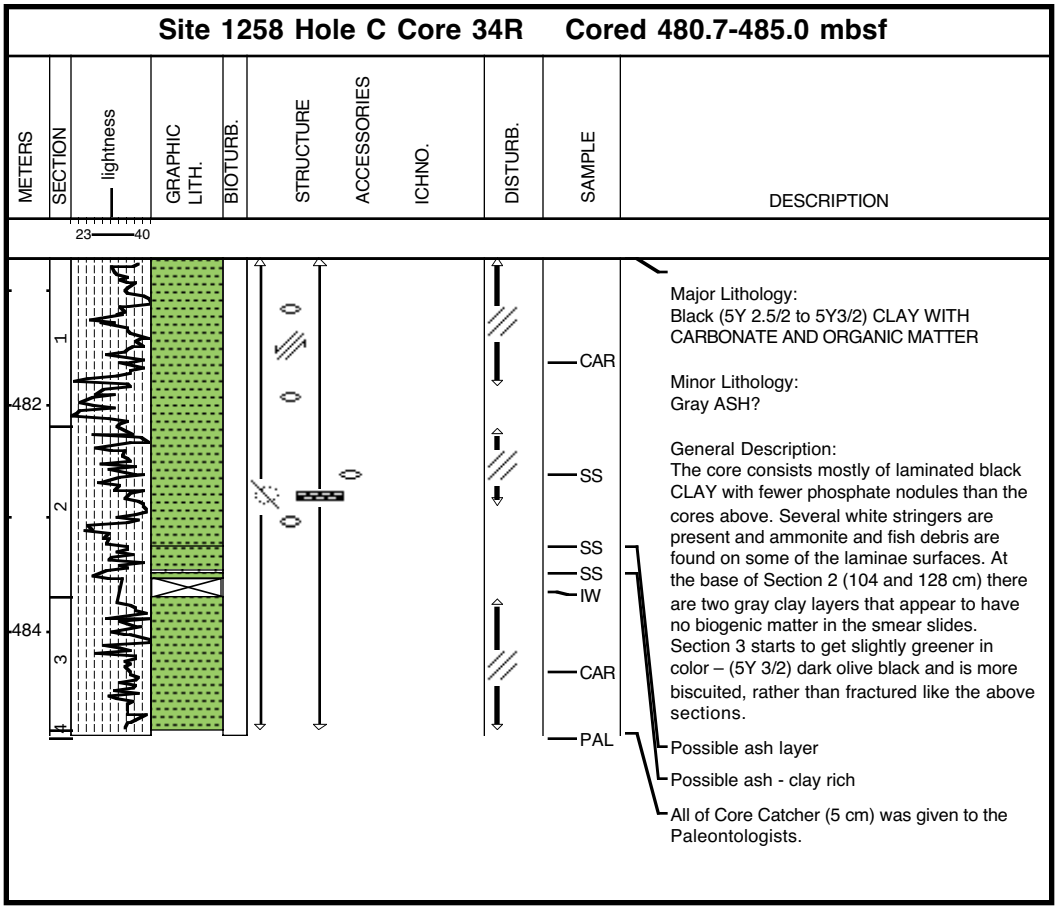
Core Photo


Site 1258 Hole C Core 32R Cored 471.0-476.0 mbsf
METERS
SECTION
lightness
24
53
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
472
1
2
3
SS
PAL
Major Lithology:
Black (5Y 2.5/2) CLAY WITH ORGANIC MATTER
Minor Lithology:
LIMESTONE
General Description:
The core consists of black laminated CLAY with phosphatic nodules and stringers. The core is less fractured than the previous few cores allowing features to be seen more clearly. When the laminations are broken apart ammonites and fish debris are commonly found on the surfaces. A LIMESTONE nodule is present between 6-51 cm in Section 1, with irregular contacts at the top and bottom. Shell beds and bioclasts are found within the limestone along with sparry calcite and veining.

Core Photo


Site 1258 Hole C Core 33R Cored 476.0-480.7 mbsf
METERS
SECTION
lightness
26
52
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
478
1
2
3
4
CAR
SS
CAR
PAL
Major Lithology:
Black (5Y 2.5/2) NANNOFOSSIL CLAY WITH FORAMINIFERS, CALCITE AND OPAQUES.
Minor Lithology:
LIMESTONE NODULE
General Description:
Highly fractured core with black laminated CLAY with phosphatic nodules throughout. Ammonites and fish debris are commonly found on the laminae surfaces. A LIMESTONE nodule is found at 10-15 cm in Section 1 with shell debris and sparry calcite.

Core Photo


Site 1258 Hole C Core 34R Cored 480.7-485.0 mbsf
METERS
SECTION
lightness
23
40
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
DESCRIPTION
482
484
1
2
3
CAR
SS
SS
SS
IW
CAR
PAL
Major Lithology:
Black (5Y 2.5/2 to 5Y3/2) CLAY WITH CARBONATE AND ORGANIC MATTER
Minor Lithology:
Gray ASH?
General Description:
The core consists mostly of laminated black CLAY with fewer phosphate nodules than the cores above. Several white stringers are present and ammonite and fish debris are found on some of the laminae surfaces. At the base of Section 2 (104 and 128 cm) there are two gray clay layers that appear to have no biogenic matter in the smear slides. Section 3 starts to get slightly greener in color – (5Y 3/2) dark olive black and is more biscuited, rather than fractured like the above sections.
Possible ash layer
Possible ash - clay rich
All of Core Catcher (5 cm) was given to the Paleontologists.

Sample						Mineral															Biogenic												Rock	
Cor	CT	Sct	Top	Depth	Lithology	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Dolomite (62)	Feldspar (71)	Glauconite (82)	Manganese Oxide (124)	Mica (118)	Opaques (140)	Pyrite (169)	Quartz (172)	Unspecified Minerals (218)	Zeolite (222)	Benthic foraminifers (236)	Calcispheres (29)	Coccolith (51)	Diatoms (58)	Discoaster (61)	Echinoid (65)	Fish Remains (74)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)	calcareous debris (161)	Organic Debris Organic Matter (142)	Comments
Hole A																																		
1	R	1	80	0.80	D		5														*	65		20				10					Nannofossil ooze with foraminifers
1	R	1	100	1.00	M				62								12											26					Foraminifer clay with quartz (silt)
1	R	4	92		D		5													3		80				*		12					Nannofossil ooze with foraminifers
2	R	1	90	6.00	D		10					*					*		2		1	65						22					Nannofossil ooze with foraminifers
2	R	2	78	7.38	D			10	10										1			64						15					Nannofossil ooze with foraminifers
2	R	4	90	10.50	D		10										*		1			54						20	15				Nannofossil chalk with foraminifers and radiolarians
3	R	1	70	14.90	D		20																5				48	15	12	*			Nannofossil chalk with foraminifers and radiolarians
3	R	5	70	20.90	D		20														3		5				32	20	20				Nannofossil chalk with radiolarians and foraminifers
4	R	1	70	24.50	D		25														3		*				47	10	15				Nannofossil chalk with foraminifers and radiolarians
4	R	5	30	30.10	D		15														3	52	3					15	11	1			Nannofossil chalk with foraminifers and radiolarians
5	R	1	130	34.50	D		18										*		15		*						49	15	3	*			Nannofossil chalk with foraminifer and zeolite
5	R	3	30	36.50	D		10		10										15		5						45	15					Nannofossil chalk with foraminifer and zeolite
5	R	4	21.5	37.92	M		15												15								55	15					Nannofossil chalk with foraminifer and zeolite
6	R	1	35	43.15	D			10	7							*	3		15		5					*	40	15			5		Nannofossil chalk with calcite, zeolite, and foraminifers
6	R	2	100	45.30	D				15								*		5								60	10		*	10		Nannofossil chalk with zeolite, foraminifers, and clay
6	R	4	8	47.38	D				10										2								40	15			33		Calcareous nannofossil chalk with clay and foraminifers
6	R	5	44	49.24	D				10										5								55	20			10		Nannofossil chalk with clay and foraminifers
6	R	6	8	50.38	D				10										10								60	15			5		Nannofossil chalk with clay, and foraminifer

Sample						Mineral														Biogenic												Rock	
Cor	CT	Sct	Top	Depth	Lithology	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Dolomite (62)	Feldspar (71)	Glauconite (82)	Manganese Oxide (124)	Mica (118)	Opaques (140)	Pyrite (169)	Quartz (172)	Unspecified Minerals (218)	Zeolite (222)	Benthic foraminifers (236)	Calcispheres (29)	Coccolith (51)	Diatoms (58)	Discoaster (61)	Echinoid (65)	Fish Remains (74)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)	calcareous debris (161)	Organic Debris Organic Matter (142)	Comments
Hole A (continued)																																	
6	R	7	29.5	52.10	D		10		19								3		15		3					*	35	15					Nannofossil chalk with calcite, zeolite, and foraminifer
7	R	1	33	52.83	D		20		17						2		1		10						*		20	30					Foraminifer chalk with clay, calcite, and nannofossil
7	R	2	28	53.98	D		10		25										5	*	10					*	30	20					Nannofossil chalk with calcite, calcisphere and foraminifer
7	R	3	102	56.22	D		10		15								2		10	*	3						35	25					Nannofossil chalk with calcite, zeolite and foraminifer
7	R	4	9	56.79	D		15		21							1			10		8					*	35	10					Nannofossil chalk with foraminifers, zeolite, and calcite
7	R	4	34.5	57.05	M		30												20		5						25	20					Calcareous chalk with zeolite, foraminifers, and nannofossils
7	R	4	38	57.08	M		8		22								2		3		2						40	20	3				Nannofossil chalk with calcite, foraminifer and clay
7	R	5	55	58.75	D		10		24										10		5					1	30	20					Nannofossil chalk with calcite, zeolite, and foraminifer
7	R	6	44	60.14	D				10								*		25								40	25					Foraminifer, zeolite, nannofossil chalk with clay
8	R	3	111	66.28	D				20										15								40	25					Foraminifer nannofossil chalk with zeolite and clay
8	R	5	32	68.49	D				15								*		10								60	15					Nannofossil chalk with zeolite, clay, and foraminifer
9	R	1	18	72.08	D				15										15								35	25			10		Nannofossil chalk with clay, zeolite, and foraminifers
9	R	1	67	72.57	D				15										10								50	20			5		Nannofossil chalk with zeolite, clay and foraminifer
9	R	4	77	77.17	D				20										5								50	15			10		Nannofossil chalk with carbonate, foraminifer and clay
9	R	6	61	80.01	M				20										25		5						25	15			10		Zeolitic nannofossil chalk with carbonate, foraminifer, and clay
10	R	2	54	83.64	D		10										1		10		3					*	50	26					Nannofossil chalk with calcite, zeolite, and foraminifer
10	R	6	10	89.20	D		15		10			1			*		1		15		3					*	45	10					Nannofossil chalk with foraminifers, calcite, and zeolite

Sample						Mineral														Biogenic												Rock	
Cor	CT	Sct	Top	Depth	Lithology	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Dolomite (62)	Feldspar (71)	Glauconite (82)	Manganese Oxide (124)	Mica (118)	Opaques (140)	Pyrite (169)	Quartz (172)	Unspecified Minerals (218)	Zeolite (222)	Benthic foraminifers (236)	Calcispheres (29)	Coccolith (51)	Diatoms (58)	Discoaster (61)	Echinoid (65)	Fish Remains (74)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)	calcareous debris (161)	Organic Debris Organic Matter (142)	Comments
Hole A (continued)																																	
10	R	6	66	89.76	D		10		12										15		8					*	30	25					Nannofossil chalk with calcite, zeolite, and foraminifer
11	R	2	60	93.40	D		10		4								1		10		5					*	45	25					Nannofossil chalk with zeolite, calcite and foraminifer
11	R	3	141	95.71	M		5		39								1		10		5					*	30	10					Nannofossil and clay chalk with zeolite and foraminifers
12	R	2	66	103.06	D		10		16										10		3						45	15			1		Nannofossil chalk with zeolite, calcite, and foraminifers
12	R	3	110.5	105.01	M		5		29							*	1				5						40	20					Nannofossil chalk with foraminifers and clay
13	R	6	100	119.00	D		10		30										10		*						35	15					Clay, nannofossil chalk with foraminifers
15	R	2	70	131.90	D		20		25										4				8				30	5	6	2			Clayey nannofossil chalk
15	R	2	138	132.58	M		10		14														25				35	8	8				Diatom nannofossil chalk
16	R	5	70	146.10	D		7		26										*				12				35	10	10				Nannofossil chalk with diatoms
17	R	5	50	155.55	D		15		30										5								38	9	3				Clayey Nannofossil chalk
18	R	2	50	160.70	D		10		15										10		*					*	60	5					Nannofossil chalk with calcite, zeolite, and clay
19	R	1	50	168.90	D		5		30								*		5		*						55	5					Clayey Nannofossil chalk
19	R	5	5	173.61	D			30											25								25	20					Clayey Nannofossil chalk with zeolite and foraminifers
19	R	5	90	174.46	M			*	98		2			*			*									*							Clay
19	R	5	106	174.62	M				75								2	1	20							*			2				Clay
19	R	5	118	174.74	D		10		10										10								70						Nannofossil chalk
19	R	5	123	174.79	D				92								2	1	5									*					Clay
19	R	6	84	175.90	D		10		30										5							*	35	20					Clayey nannofossil chalk with foraminifers
20	R	3	84	181.94	D		10		35										8								35	12					Clayey nannofossil chalk with foraminifers
21	R	1	77	188.47	D		5		29							1	1				1					*	50	10			3		Nannofossil chalk with foraminifers and clay
21	R	4	54	192.74	D		5		37										1								50	5			2		Clayey nannofossil chalk
21	R	4	144	193.64	M		5		26							3	1		3								50	10			2		Nannofossil and clay chalk with foraminifers
22	R	1	90	198.00	D		5		26																	1	55	10			3		Nannofossil chalk with foraminifers and clay
22	R	3	54	200.64	D		1		47							2			5		1						40	3			1		Clayey nannofossil chalk
22	R	4	144	203.04	D				27							2			5		1					*	50	10			5		Nannofossil chalk with foraminifer and clay

Sample						Mineral														Biogenic												Rock	
Cor	CT	Sct	Top	Depth	Lithology	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Dolomite (62)	Feldspar (71)	Glauconite (82)	Manganese Oxide (124)	Mica (118)	Opaques (140)	Pyrite (169)	Quartz (172)	Unspecified Minerals (218)	Zeolite (222)	Benthic foraminifers (236)	Calcispheres (29)	Coccolith (51)	Diatoms (58)	Discoaster (61)	Echinoid (65)	Fish Remains (74)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)	calcareous debris (161)	Organic Debris Organic Matter (142)	Comments
Hole A (continued)																																	
23	R	1	54	207.24	D				25								1		1								60	8			5		Clayey nannofossil chalk with foraminifers
23	R	3	86	210.56	D				42										3								50				5		Clayey nannofossil chalk
23	R	3	136	211.06	D				15										1								75	5			4		Nannofossil chalk
23	R	4	40	211.60	D				25								1										59	10			5		Clayey nannofossil chalk with foraminifers
24	R	5	49	222.79	D		5		20						2				1								62	10					Nannofossil chalk with foraminifers and clay
25	R	1	90	226.90	D				20										1								69	10					Nannofossil chalk with foraminifers and clay
25	R	5	95.5	232.96	M		25		10						10		1										54						Nannofossil chalk with clay opaque minerals, and calcite
25	R	6	123	234.73	D		20		5										1							*	59	15					Nannofossil chalk with foraminifers and calcite
26	R	1	36	235.96	D		5		23						1		1		8		5					*	45	7			5		Nannofossil chalk with clay
26	R	2	103	238.13	D		5		26							3			10		5						40	8			3		Nannofossil chalk with zeolite and clay
26	R	3	91	239.51	D		8		30										10		3					1	40	3			5		Nannofossil and clay, chalk with zeolite
26	R	6	60	243.10	D		5		57			1				1			8								20	5			3		Claystone with nannofossils
26	R	7	74	244.74	D		10		45										10								10	5			20		Calcareous claystone with zeolite
27	R	1	101	246.31	M		34									3	10										3	25			25		Calcareous foraminifer chalk with quartz
27	R	1	106	246.36	D		49									1	10											20			20		Calcareous chalk with quartz and foraminifers
27	R	3	87	249.17	D		23						10				1		3								3	40			20		Foraminifer and calcareous chalk with clay
27	R	4	6	249.86	D		38										2		10									30			20		Calcareous and foraminifer chalk with zeolite
27	R	4	144	251.24	D		32		20			*					10		8							*		30					Calcite and foraminifer chalk with quartz and clay
27	R	5	99	252.29	D		62									2	5		1									20			10		Calcareous chalk with foraminifers
28	R	2	26	256.66	D		5	2	36	*									2								40	15					Clayey nannofossil chalk with foraminifers
28	R	6	26	262.66	D			15	10								*		3								41	31					Foraminifer and nannofossil chalk
29	R	5	40	270.82	D		10		8										2								50	30					Foraminifer and nannofossil chalk
30	R	3	30	277.50	D		10		10										5							*	65	10					Nannofossil chalk
31	R	3	80	287.70	D			5	10						*				5								70	10					Nannofossil chalk
32	R	6	80	301.80	D		10		5								1										54	30					Foraminifer and nannofossil chalk

Sample						Mineral														Biogenic												Rock	
Cor	CT	Sct	Top	Depth	Lithology	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Dolomite (62)	Feldspar (71)	Glauconite (82)	Manganese Oxide (124)	Mica (118)	Opaques (140)	Pyrite (169)	Quartz (172)	Unspecified Minerals (218)	Zeolite (222)	Benthic foraminifers (236)	Calcispheres (29)	Coccolith (51)	Diatoms (58)	Discoaster (61)	Echinoid (65)	Fish Remains (74)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)	calcareous debris (161)	Organic Debris Organic Matter (142)	Comments
Hole A (continued)																																	
33	R	3	80	306.90	D		10		15	*							*		1								59	15					Nannofossil chalk with foraminifers and clay
34	R	1	80	313.60	D		15		10										10								50	15					Nannofossil chalk with foraminifers
35	R	3	103	326.43	D		30		42							3	5		2								5	5			8		Calcareous chalk with clay
35	R	5	105	329.45	D		50		14							5	8		5								5	10			3		Calcareous chalk with foraminifers
35	R	6	103	330.93	D			60	14				2			5	4		2							*	10	3					Calcareous chalk with nannofossils
36	R	1	124	333.24	D		60		12	5						3	2									1	10	2			5		Calcareous chalk with nannofossils and clay
36	R	3	97	335.97	M		40		44							2	1		3								10						Calcareous clayey chalk with nannofossils
36	R	4	90	337.40	D		5		69							5	8		3								10						Claystone with nannofossils
37	R	2	75	343.95	D		60		22							2	1										15						Limestone with nannofossils
37	R	3	47	345.17	D		40		36	2						10	1									1	10						Calcite and clayey chalk with nannofossils and pyrite
38	R	1	59	351.89	D		89									5			1								5						Limestone
39	R	3	108	364.21	D		30		8	10		*				5	3		1							1	40	2					Nannofossil limestone with dolomite
40	R	1	85	371.35	D		10		5	5			10			10	3		1							1	50	5					Nannofossil chalk with calcite, pyrite, and manganese oxide
40	R	3	144	374.94	D		10		12				25			5	5		2							1	40						Nannofossil chalk with calcite and manganese oxide
41	R	2	67	382.37	M		20		15	5			20				5		2							3	30						Nannofossil chalk with clay, calcite, and manganese oxide
41	R	4	61	385.16	D		15		23	5						15	1										40	1					Nannofossil chalk with calcite, pyrite and clay
42	R	1	85	390.65	D		15		10			7				15	5		15							5	8	20					Chalk with clay, zeolite, pyrite, and planktonic foraminifers
42	R	2	70	392.00	D		5		59							10			15							1						10	Claystone with organic debris, pyrite and zeolite
43	R	2	80	401.48	D	5	3		10						3		1		5								43	10				20	Nannofossil chalk with organic debris
43	R	4	72	403.71	M				25								*		15								41	4				15	Clayey nannofossil chalk with organic debris
45	R	2	98	420.96	D		2		10								*		10								53	5				20	Nannofossil chalk with organic debris

Sample						Mineral														Biogenic												Rock	
Cor	CT	Sct	Top	Depth	Lithology	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Dolomite (62)	Feldspar (71)	Glauconite (82)	Manganese Oxide (124)	Mica (118)	Opaques (140)	Pyrite (169)	Quartz (172)	Unspecified Minerals (218)	Zeolite (222)	Benthic foraminifers (236)	Calcispheres (29)	Coccolith (51)	Diatoms (58)	Discoaster (61)	Echinoid (65)	Fish Remains (74)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)	calcareous debris (161)	Organic Debris Organic Matter (142)	Comments
Hole A (continued)																																	
46	R	3	42	426.54	D	2		5	10								2		10							*	43	8				20	Nannofossil chalk with organic debris
48	R	2	70	434.99	D		3		10										3								69	5				10	Nannofossil chalk
49	R	3	80	441.64	D		5	3	10								1	1	*								50	10				20	Nannofossil chalk with organic debris
50	R	3	70	445.89	D			3	20	*						3	1		*								48	5				20	Nannofossil chalk with clay and organic debris
50	R	CC	3	446.25	D		3	3	50								*	1	1								26	1				15	Nannofossil clay with organic debris

Sample						Mineral															Biogenic													Rock	Other	
Core	CT	Sct	Top (cm)	Depth (mbsf)	Lithology	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Dolomite (62)	Feldspar (71)	Glauconite (82)	Manganese Oxide (124)	Mica (118)	Opaques (140)	Pyrite (169)	Quartz (172)	Unspecified Minerals (218)	Zeolite (222)	Benthic foraminifers (236)	Calcispheres (29)	Coccolith (51)	Diatoms (58)	Discoaster (61)	Echinoid (65)	Fish Remains (74)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	calcareous debris (161)	Organic Debris Organic Matter (142)	Other (145)	Comments
Hole B																																			
1	R	1	40	0.40	D		5																			75	20							Nannofossil ooze with foraminifers
1	R	4	40	4.90	D		10																			65	25							Foraminifer and Nannofossil ooze
1	R	4	130	5.80	D		10										*			2						68	20							Nannofossil chalk with foraminifers
2	R	1	50	14.60	D		20		6																	40	22	10			2			Nannofossil chalk with foraminifers
2	R	3	50	17.60	D		15																2			48	25	10						Foraminifer and Nannofossil chalk
3	R	2	50	25.10	D		20		6														12			30	20	12						Siliceous nannofossil chalk with foraminifers
3	R	5	50	29.60	D		20		6														12			30	20	12						Siliceous nannofossil chalk with foraminifers
4	R	1	130	33.40	D		5										*									42	5	48						Nannofossilchalkyradiolarite
4	R	5	40	38.50	D		15												15							47	22	1						Nannofossil chalk with foraminifers and zeolite
5	R	2	76	43.36	D			5									*		25		2					48	20							Zeolitic nannofossil chalk with foraminifers
5	R	4	60	46.20	D		10										*		20		1					49	20							Nannofossil chalk with foraminifer and zeolite
6	R	1	60	51.40	D		10												20						*	48	22							Nannofossil chalk with foraminifers and zeolite
6	R	4	60	55.90	D		15												15		1					54	15							Nannofossil chalk with Foraminifers and zeolite
7	R	2	126	63.26	D				26										2							40	30				2			Foraminifer and Nannofossil chalk with clay
7	R	3	62	64.12	D				8										2		5					40	40				5			Nannofossil and foraminifer chalk with clay
7	R	6	57	68.57	D				18								2		10							40	25				5			Nannofossil chalk with zeolite, clay, and foraminifers
8	R	4	35	74.95	D		10		15										10		10				*	30	25							Nannofossil chalk with calcite, zeolite, Calcisphere, clay, and foraminifers
9	R	3	60	83.30	D		10		15								2		10		5				*	40	15				3			Nannofossil chalk with calcite, zeolite, and foraminifers
9	R	6	125	88.45	M		10		15			*			2		5		30		5					20	10				3			Zeolitic chalk with calcite, foraminifers, clay, and nannofossils
10	R	1	110	90.40	D		10		15										10		5					40	15				5			Nannofossil chalk with calcite, zeolite, and foraminifers
10	R	3	45.5	92.76	M		5		5								5		10		10					30	30				5			Foraminifer and nannofossil chalk with zeolite and Calcisphere
11	R	3	77	102.77	D		5		21							1	1		15		2					30	20				5			Nannofossil chalk with zeolite, foraminifers, and clay
11	R	5	41	105.41	M		20		23								2		30		5				*		20							Zeolitic chalk with calcite, foraminifers, and clay
11	R	5	64	105.64	M		10		23							1	2		1		3				*	40	20							Nannofossil chalk with calcite, foraminifers, and clay
11	R	7	29	108.29	D		5		20										3		2					30	35				5			Nannofossil and foraminifer chalk with clay

Sample						Mineral															Biogenic													Rock	Other	
Core	CT	Sct	Top (cm)	Depth (mbsf)	Lithology	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Dolomite (62)	Feldspar (71)	Glauconite (82)	Manganese Oxide (124)	Mica (118)	Opaques (140)	Pyrite (169)	Quartz (172)	Unspecified Minerals (218)	Zeolite (222)	Benthic foraminifers (236)	Calcispheres (29)	Coccolith (51)	Diatoms (58)	Discoaster (61)	Echinoid (65)	Fish Remains (74)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	calcareous debris (161)	Organic Debris Organic Matter (142)	Other (145)	Comments
Hole B (continued)																																			
12	R	3	94	112.54	D		5		20	2									3		2						40	25				3			Nannofossil chalk with clay and foraminifer
13	R	3	83	122.03	D		10		15										15		5						20	30	5						Foraminifer chalk with calcite, zeolite, and nannofossils
13	R	5	76	124.96	D											2	2		10		5						46	25	5			5			Nannofossil chalk with zeolite and foraminifers
14	R	3	65	131.55	D		8		25										10		2						25	30	*						Clayey nannofossil foraminifer calk
14	R	5	65	134.55	D		10		15										5								55	15	*						Nannofossil chalk with foraminifer and clay
16	R	2	23	148.93	M		30		21																		5	25	9			10			Calcite chalk with carbonate debris, clay, and foraminifers
16	R	3	65	150.85	D		5		14								1				5						30	20	15			10			Nannofossil chalk with clay, radiolarians, and foraminifers
16	R	5	65	153.85	D				2												5		2				30	10	40	5	1	5			Nannofossil and radiolarian chalk with foraminifers
17	R	2	70	159.10	D				18							2											30	15	30	5					Nannofossil and radiolarian chalk with clay and foraminifers
17	R	4	70	161.90	D				3							2											35	15	40			5			Nannofossil and radiolarian chalk with foraminifers
18	R	1	60	167.10	D		4										2		2				*				40	20	30	2					Radiolarian and nannofossil chalk with foraminifers
18	R	4	60	171.60	D			5								1											30	20	40	2	*	2			Nannofossil and radiolarian chalk with foraminifers
19	R	2	30	177.90	D			10	45										10								20	10				5			Claystone(??) with carbonate, zeolite, foraminifers, and nannofossils
19	R	5	30	182.40	D		15		10								10		5		5						15	30				10			Foraminifer chalk with carbonate debris, clay, quartz, and calcite
20	R	1	30	186.00	D		5		12							10			2		10					1	35	20				5			Nannofossil chalk with pyrite, Calcisphere, clay, and foraminifers
20	R	4	110	191.30	D			15	17							5	8		5								20	25				5			Foraminifer chalk with carbonate and nannofossils
21	R	1	3	195.23	D				36								5		1		5					*	20	30				3			Foraminifer claystone with nannofossil
21	R	1	78	195.98	D				38							10	5		20		5						15	3	2			2			Claystone with pyrite, nannofossils, and zeolite
21	R	2	2	196.48	D				40							15										*	5		10					30	Claystone
21	R	2	25	196.71	D				50							10	2		2							3			3					30	Claystone
21	R	2	51	196.97	M				55							10			5							5	3		12					10	Claystone
21	R	2	53	196.99	M				74							10	5		10							1									Claystone
21	R	2	63	197.09	D			10	35							5			8								40					2			clay and Nannofossil chalk with carbonate
21	R	2	95	197.41	D		10		7							5	2		15		1						40	10				10			Nannofossil chalk with calcite, foraminifers, and zeolite
22	R	2	100	207.20	D		2									2	2										50	40	1			3			foraminifer and nannofossil chalk
23	R	4	80	219.70	D				4							10			5							1	50	20				10			Nannofossil chalk with pyrite, carbonate debris, and foraminifers

Sample						Mineral															Biogenic													Rock	Other	
Core	CT	Sct	Top (cm)	Depth (mbsf)	Lithology	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Dolomite (62)	Feldspar (71)	Glauconite (82)	Manganese Oxide (124)	Mica (118)	Opaques (140)	Pyrite (169)	Quartz (172)	Unspecified Minerals (218)	Zeolite (222)	Benthic foraminifers (236)	Calcispheres (29)	Coccolith (51)	Diatoms (58)	Discoaster (61)	Echinoid (65)	Fish Remains (74)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	calcareous debris (161)	Organic Debris Organic Matter (142)	Other (145)	Comments
Hole B (continued)																																			
24	R	3	50	227.60	D		5		14	5						3	2				5					1	50	15							Nannofossil chalk with clay and foraminifers
25	R	1	38	234.08	D		9		25										5		1						50	5	5						Nannofossil chalk with clay
25	R	5	25	239.95	D		8		50										5								25	2	10						Nannofossil claystone with radiolarians
25	R	5	76	240.46	D		40		41										2								2	15							Carbonate claystone with foraminifers
27	R	1	32	253.22	D		5		41							3	1		5								30	15							Nannofossil claystone with foraminifers
27	R	1	48.5	253.39	M			10	50						20				5								10	5							Claystone with carbonate, nannofossils, and opaque minerals
27	R	1	49.5	253.40	M			10	25						30		15		5								10	5							Opaque mineral sandstone with nannofossils, carbonate, quartz, and clay
27	R	1	54	253.44	M			40	2							8	10		10								10	20							Calcareous chalk with zeolite, quartz, nannofossils, and foraminifers
29	R	2	86	264.96	D		10												10								50	30							Foraminifer and nannofossil chalk with calcite and zeolite
30	R	1	60	272.80	D		5		5						*		1		7							*	67	15							Nannofossil chalk with foraminifers
30	R	3	60	275.80	D		5		10						*		*		10								63	12							Nannofossil chalk with zeolite and foraminifers
31	R	2	60	284.00	D		25		10	1																	45	18							Nannofossil chalk with foraminifers and calcite
31	R	4	60	287.00	D		10		10										3								47	30							Foraminifer and nannofossil chalk
32	R	4	60	296.60	D		10	8	5						*		1		1							*	50	25							Foraminifer and nannofossil chalk
32	R	7	60	301.10	D		17		5						1		1		2								44	30							Foraminifer and nannofossil chalk
33	R	1	60	301.70	D		20										1		3								56	20							Nannofossil chalk with foraminifers
33	R	3	60	304.70	D		20										*		5								65	10							Nannofossil chalk with foraminifers
34	R	1	73	311.53	D		13		15						1				5								46	20	*						Nannofossil chalk with foraminifers and clay
34	R	4	90	316.20	D		8		10								1		3								56	22							Nannofossil chalk with foraminifers
36	R	3	43	333.53	D			10	62	*																	25	3							Nannofossil clay
36	R	3	57	333.67	D		10		60								*		*								30								Nannofossil clay
38	R	1	77	350.07	D		10		50								1		*								36	2	1						Nannofossil clay
38	R	2	109	351.89	D			10	80								*										10	*							Calcareous clay (not really representative, too hard)
39	R	3	60	362.60	D			5	72								1		2									20							Clay with nannofossils
39	R	6	60	367.10	D		10		52										3								30	5							Nannofossil clay
40	R	1	60	369.20	D		5		40	1							1		3								39	8						3	Nannofossil clay
40	R	2	70	370.30	D		7		36						*				4								50		3						Clayey Nannofossil chalk
42	R	1	65	384.45	D	*	8		30	*	*				3				3								487	8							Clayey nannofossil chalk
42	R	3	50	387.10	D		5		40	*					*		1										50		3						Clayey nannofossil chalk
43	R	3	108	391.78	D		5			3						17	3		2								70								Nannofossil chalk with pyrite
44	R	1	33	393.83	D		5									10	10									2	73								Nannofossil chalk with quartz and pyrite
44	R	2	38	394.54	M	2						15					25									15	43								Nannofossil sandstone with glauconite, fish debris, and quartz

Sample						Mineral														Biogenic													Rock	Other	
Core	CT	Sct	Top (cm)	Depth (mbsf)	Lithology	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Dolomite (62)	Feldspar (71)	Glauconite (82)	Manganese Oxide (124)	Mica (118)	Opaques (140)	Pyrite (169)	Quartz (172)	Unspecified Minerals (218)	Zeolite (222)	Benthic foraminifers (236)	Calcispheres (29)	Coccolith (51)	Diatoms (58)	Discoaster (61)	Echinoid (65)	Fish Remains (74)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	calcareous debris (161)	Organic Debris Organic Matter (142)	Other (145)	Comments
Hole B (continued)																																			
44	R	3	87	396.20	M	15			55																							30		Carbonaceous clay with barite
44	R	4	44	397.15	D	1			53										5							1						40		Carbonaceous claystone
45	R	1	50	398.00	M	2		10	31										10							5	2					40		Carbonaceous claystone with calcite and zeolite
45	R	1	145		M	*		20	58										5							*	5	2				10		Calcareous claystone
45	R	4	32	401.08	D		5		48							3	2		20								10	5				5	5		Claystone with nannofossil and zeolite
45	R	4	38	401.14	M		5		53							10	3		15							4	10								Claystone with nannofossils, pyrite, and zeolite
46	R	2	25	403.99	M				55			1				10	2		20								2					10		Claystone with pyrite and zeolite
46	R	2	60	404.34	M	1	5		45							2	10		2								20	10				5		Claystone with quartz, foraminifers, and nannofossils
50	R	1	112	423.42	D				45		1					3	3		5							3	20	10				10		Claystone with foraminifer and nannofossils
51	R	1	76	427.06	M		5										20		5							20	20	20				10		Biogenic carbonate
52	R	2	50	433.51	D		10		35										2								33	10				10		Nannofossil clay
53	R	1	80	436.70	D		10		10	2							*										50				25	3		Nannofossil chalk with carbonate grains (calcareous chalky sand)
55	R	2	85	447.47	D		10		10								13										30	3			25	5	4	Calcareous nannofossil sand with quartz
55	R	3	12	447.81	D		10		46								5										21	5			10	3		Clay with nannofossils
56	R	1	40	451.60	D		10		10								10										38	15			10	5	2	Nannofossil chalk with carbonate and foraminifers
57	R	2	48	457.18	D		10		32						2	3											35				3	15		Clayey chalk with organic matter

Sample						Mineral												Biogenic								Rock	Other	
Core	CT	Sct	Top (cm)	Depth (mbsf)	Lithology	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Dolomite (62)	Feldspar (71)	Glauconite (82)	Opaques (140)	Pyrite (169)	Quartz (172)	Zeolite (222)	Calcispheres (29)	Diatoms (58)	Fish Remains (74)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)	calcareous debris (161)	Organic Debris Organic Matter (142)	Other (45)	Comments
Hole C																												
1	R	1	60	120.60	D				16			1		1	1	3	5			40	30	*		3			Foraminifers and nannofossil chalk with clay
1	R	7	60	129.60	D				20						1	5	3		*	40	25	1		5			Nannofossil chalk with clay and foraminifers
2	R	1	60	130.00	D				20			*				5	10			40	20			5			Nannofossil chalk with clay and foraminifers
2	R	2	65	131.55	M				49						3	3	5			35	5						Nannofossil claystone
2	R	2	100	131.90	M				29						1	5	10		*	40		5				10	Nannofossil chalk with Calcisphere, Lepisphere, and clay
2	R	7	60	139.00	D				30						2	2				40	15	10	1				Clay and nannofossil chalk with radiolarian and foraminifers
3	R	1	50	139.50	D				2							5	5			50	5	30		3			Radiolarian and nannofossil chalk
3	R	3	76	142.76	D															45	15	35	5				Radiolarian and nannofossil chalk with foraminifers
3	R	4	60	144.10	M															47	10	40		3			Radiolarian and nannofossil chalk with foraminifers
4	R	1	50	149.10	D															50	5	40	5				Radiolarian and nannofossil chalk
4	R	6	60	156.70	D												3		*	29	20	40	5	3			Nannofossil and radiolarian chalk with foraminifers
5	R	2	80	160.50	D					3		*						*	*	37	15	40	5				Nannofossil and radiolarian chalk with foraminifers
5	R	3	54.5	161.75	M		5								1					34	10	50					Nannofossil and radiolarian chalk with foraminifers
6	R	1	45	168.35	D			5						1			1			40	10	35	5	3			Radiolarian and nannofossil chalk with foraminifers
7	R	1	146	178.96	M		5		33					1		2	1			40	15			3			Clay and nannofossil chalk with foraminifers
7	R	5	77.5	184.28	M		10		27						3	2	2		1	35	15			5			Clay and nannofossil chalk with calcite and foraminifers
8	R	5	8	193.28	D		5		27					3	5	2	3		*	45	10						Nannofossil chalk with foraminifers and clay
8	R	6	74	195.44	D				60					15	8				2	15							Claystone with pyrite and nannofossils
8	R	7	60	196.80	D		5		15						10					50	20						Nannofossil chalk with quartz, clay, and foraminifers
9	R	3	84	200.34	D			5	13					2	10					50	20						Nannofossil chalk with quartz, clay, and foraminifers
9	R	5	78	203.28	M		10		27					3	5					45	10						Nannofossil chalk with foraminifers, calcite, and clay
12	R	3	13	258.03	D				35					2		3			2	55	3						Nannofossil and clayey chalk
12	R	4	47	259.87	D		3		28					2	2	5				55	5						Nannofossil chalk with clay
12	R	7	81	263.94	M		25			1					2	2				55	10			5			Nannofossil limestone with foraminifers and calcite
12	R	7	100	264.13	M				61						3				1	20	15						Claystone 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)	Dolomite (62)	Feldspar (71)	Glauconite (82)	Opaques (140)	Pyrite (169)	Quartz (172)	Zeolite (222)	Calcispheres (29)	Diatoms (58)	Fish Remains (74)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)	calcareous debris (161)	Organic Debris Organic Matter (142)	Other (45)	Comments
Hole C (continued)																											
12	R	7	140	264.53	D			3	10							2				60	25						Nannofossil chalk with clay and foraminifers
14	R	3	80	388.50	D				34	3				5						55	3						Clay and nannofossil chalk
15	R	1	28	390.08	D		5		27	1					1					60	3					3	Nannofossil chalk with clay
15	R	3	130	394.07	D		15	8	10						1	7				39	10				10		Nannofossil chalk with foraminifers
16	R	2	58	396.48	D		5	3	35						1	8				28	10				10		Nannofossil clay
17	R	1	94	400.34	M		*		65				35		*					*							Clay with opaque minerals
17	R	CC	12	402.69	D				30							8				15	25				22		Clay with foraminifers and organic matter
18	R	1	125	405.35	D		5		30				2		*	8				35	5				15		Clayey nannofossil chalk with organic matter
19	R	1	90	410.00	D		8		35							5				25	12				15		Nannofossil clay with organic matter and foraminifers
22	R	1	90	424.20	D		17		20	*					2	5				28	25				3		Foraminifers and Nannofossil chalk with clay
22	R	3	90	426.36	D		76								*	2					20				2		Calcareous sand with foraminifers
23	R	1	75	429.05	D		6		29				1			1				45	8				10		Clayey nannofossil chalk
24	R	1	65	433.55	D		8		40				1		1	*				35	5				10		Nannofossil clay
25	R	1	95	438.85	D		5		55											15	5				20		Clay with organic matter and nannofossils
26	R	1	56	443.06	D		10		60						*					20	10						Clay with nannofossils
27	R	3	61	451.02	D		5		67						1					15					12		Clay with nannofossils and organic matter
28	R	2	25	453.55	D				75				5		3	2				3	2				10		Claystone with organic matter
29	R	2	86	459.16	M				58		1			15	8				3	5					10		Claystone with organic matter and pyrite
29	R	2	130	459.60	D	5			40					10	10				10	5	10				10		Claystone with quartz, foraminifer, and organic matter
31	R	1	131	467.71	M	5	5	5	50				15		5				2	3	5				5		Clay with opaque minerals
32	R	2	72	468.62	D		5		44	2					10	2			5	2	10	10			10		Clay with quartz, foraminifers, and radiolarians
33	R	1	108	477.08	M		10		26				15		5	1			5	20	10	3			5		Nannofossil claystone with foraminifers, calcite and opaque minerals
34	R	2	38	482.58	D			5	81					*	1				*	3		*			10		Claystone with carbonate and organic carbon
34	R	2	104	483.24	M				96				*		2	2											Claystone (altered ash?)
34	R	2	128	483.48	M				88				2		10												Clay with quartz (altered ash?)

Sample								Mineral															Biogenic												Rock									
Core	CT	Sct	Top (cm)	Bot (cm)	Depth (mbsf)	Thin Section Number	Lithology	Barite	Calcite	Inorganic Calcite	Clay	Dolomite	Feldspar	Glauconite	Phosphorite	Opaque Minerals	Chalcedony	Quartz	Zeolite	Bioclast	Ebridians	Diatoms	Fish Remains	Nannofossils	Foraminifers	Planktonic Foraminifers	Benthic Foraminifers	Shell Fragments	Sponge Spicules	Radiolarians	Siliceous Matrix	Fecal Pellet	Micrite	Sparite	Organic Debris/Organic Matter	Other		Lithology	Comments
Hole A																																											
3	R	4	60	65	19.30	29																			15				*	26			59				100	Radiolarian chalk with foraminifers (Radiolarian/ foraminifer wackestone to packstone)	Thin section is of very poor quality.
5	R	1	70	72	33.90	30	D				5															35							60				100	Foraminifer wackestone)	Thin section is very poor quality. Foraminifers are quite often empty or partly empty. Micrite is as matrix.
28	R	1	29	32	255.19	32	D																			30							70				100	Foraminifer wackestone / packstone	Micrite matrix. Areal coverage of foraminifers.
28	R	3	56	59	258.46	33	D																1			19	*						80				100	Foraminifer wackestone	Sharp decrease in foraminifer content in burrows.
29	R	2	98	100	267.08	34	D				20															40	*						40			*	100	Foraminifer wackestone	Foraminifers are filled with micrite, clayey micrite and rarely with sparite (blocky calcite). Trace of Echinoid fragments
33	R	3	29	31	306.39	35	D									1										49	*						50				100	Foraminifer wackestone to packstone	Thin section came off glass slide. Micrite matrix. Foraminifers are filled with blocky calcite (clear crystals), empty (due to TS preparation), or filled with micrite. In upper part of TS, foraminifers generally filled with siliceous material (cryptocrystalline quartz+clay).
38	R	C C	0	5	357.01	31	D				30					*		*	5											15			50				100	Zeolitic wackestone with radiolarians	Radiolarians are replaced by zeolite. One big agglutinate foraminifer made of quartz silt.
42	R	1	88	89	390.68	37	M				25			11		2							11			21							25		5		100	Foraminifer wackestone with glauconite and phosphorite	Fish remains include phosphate. Background micrite.
42	R	2	43	44	391.73	38	D				35												10			10							35		10		100	Wackestone with phosphorite (black shale with phosphorite)	Laminated (clayey chalk with phosphate). Foraminifers are concentrated in certain intervals. Clay and micrite as matrix. Fish remains are with phosphatic nodules.

Sample								Mineral														Biogenic										Rock									
Core	CT	Sct	Top (cm)	Bot (cm)	Depth (mbsf)	Thin Section Number	Lithology	Barite	Calcite	Inorganic Calcite	Clay	Dolomite	Feldspar	Glauconite	Phosphorite	Opaque Minerals	Chalcedony	Quartz	Zeolite	Bioclast	Ebridians	Diatoms	Fish Remains	Nannofossils	Foraminifers	Planktonic Foraminifers	Benthic Foraminifers	Shell Fragments	Sponge Spicules	Radiolarians	Siliceous Matrix	Fecal Pellet	Micrite	Sparite	Organic Debris/Organic Matter	Other		Lithology	Comments
Hole A (continued)																																								
42	R	2	70	71	392.00	39	D				36					1							11			5							28		19		100	Wackestone with organic matter	Calcareous claystone with fish remains and organic matter. 25% of micrite is matrix; 3% is fecal pellets. Fish remains include phosphate.
43	R	1	111	115	400.51	40	D				15					2										15							16	50	2		100	Foraminifer wackestone	Flasered-thinly bedded appearance. Microspar matrix. Micrite patches (fecal pellets?)
43	R	3	27	30	402.21	41	D				20					1							*			32							27	15	5		100	Foraminifer wackestone alternating with packstone	No obvious size-sorting in this thin section. Micrite and clay matrix.
43	R	3	51	54	402.45	36	D				50					2							3			5							20		20		100	Calcareous claystone with organic matter	Typical black shale. Organic matter is mainly granular.
46	R	2	19	20	424.85	42	M																15			55								30			100	Foraminifer packstone with abundant fish debris	Chunky sparite and blocky calcite--very small granules but not opaque. Fish remains are well preserved.
48	R	2	92	95	435.21	43	M		45		20					2							3			5							20		5		100	Clayey chalk with diagenetic calcite	Black shale in the process of being replaced by diagenetic calcite. Cone-in-cone structure.
49	R	1	25	29	438.15	44	D		77		10					5									3							5				100	Crystalline limestone (with layers of coarse-grained diagenetic calcite)	Diagenetic layers show initial stages of the formation of a cone-in-cone structure.
49	R	3	97	100	441.81	45	D				10					3		1					7			10		5					31	30	3		100	Foraminifer wackestone	Lower part: Foraminifer wackestone with microsparitic matrix. Upper part: Foraminifer wackestone with micritic matrix. 21% micrite matrix. 30% microsparite.10% micrite in fecal pellets.
49	R	3	127	130	442.11	46	D				25					4		2					13			25							31				100	Foraminifer wackestone with fish debris	Opaque minerals are up to 10% in some areas. 15% micritic fecal pellets and 16% micrite matrix.
50	R	1	123	126	443.73	47	DM		60		10					2							20			5		1							2		100	Diagenetic calcite with fish debris	Clay and organic matter form original black shale. Fish remains contain one large phosphate nodule.
50	R	2	22	25	443.98	48	M		50		10			2		5							25			5		3									100	Diagenetic calcite concretion with fish debris and phosphorite	

Sample								Mineral												Biogenic													Rock									
Core	CT	Sct	Top (cm)	Bot (cm)	Depth (mbsf)	Thin Section Number	Lithology	Barite	Calcite	Inorganic Calcite	Clay	Dolomite	Feldspar	Glauconite	Phosphorite	Opaque Minerals	Chalcedony	Quartz	Zeolite	Bioclast	Ebridians	Diatoms	Fish Remains	Nannofossils	Foraminifers	Planktonic Foraminifers	Benthic Foraminifers	Shell Fragments	Sponge Spicules	Radiolarians	Siliceous Matrix	Fecal Pellet	Micrite	Sparite	Organic Debris/Organic Matter	Other		Lithology	Comments
Hole A (continued)																																								
50	R	3	97	100	446.16	49	D		3							5							1		*					11				80			100	Chalk with calcite replaced radiolarians	Radiolarians are replaced by sparite. Microspar matrix. Calcite is coarse vein calcite.
Hole B																																								
13	R	3	116	118	122.36	(50)		See comments																															Sample returned. Not made into thin section.	
38	R	2	123	126	352.03	51					5					2		1	5				1		1					15			70		*		100	Chalk with radiolarians	Zeolites are not in radiolarians. Micrite matrix contains unquantified amount of opal CT.
39	R	4	45	47	363.95	52	D									6					1				3			*		15			75				100	Chalk with radiolarians / Radiolarian wackestone	Radiolarians are oriented parallel bedding-partly disturbed by bioturbation. Foraminifers are more abundant in burrows; mainly fragments with blocky calcite filling. Micrite matrix may contain opal.
44	R	2	8	11	394.24	53	D							1		4		1					1		3					8			62	20			100	Chalk	Chalk is slightly siliceous. Micrite might contain opal CT. Microsparite in burrows.
44	R	2	32	36	394.48	54	D		10		33	12				10		2		1			7			*	*			*	5		20				100	Calcareous claystone with glauconite (bioturbated)	Fish remains include phosphate. Calcite is coarse-grained. Micrite is in matrix.
44	R	2	50	53	394.66	55	D				40			11		5		2		*			5		15						5		16		1		100	Calcareous claystone with glauconite and foraminifers (bioturbated)	Patchy-wavy appearance. Silica in matrix. Fish remains include phosphate. Foraminifers are unevenly distributed. Bioclasts are shell fragments.
44	R	2	63	66	394.79	56	D	1	2		37			1				2		1			3		15						5		25		8		100	Calcareous claystone with foraminifers	Foraminifer black shale with huge burrow Foraminifers are filled with blocky calcite or clay. Micrite in matrix. Coarser-grained diagenetic calcite. Quartz in burrow.
44	R	3	35	39	395.68	57	D				40			8		5			3	1			10			16							17				100	Calcareous claystone with foraminifers	Bioclasts are shell fragments (Inoceramus?). Micrite is in matrix.

Sample								Mineral														Biogenic										Rock											
Core	CT	Sct	Top (cm)	Bot (cm)	Depth (mbsf)	Thin Section Number	Lithology	Barite	Calcite	Inorganic Calcite	Clay	Dolomite	Feldspar	Glauconite	Phosphorite	Opaque Minerals	Chalcedony	Quartz	Zeolite	Bioclast	Ebridians	Diatoms	Fish Remains	Nannofossils	Foraminifers	Planktonic Foraminifers	Benthic Foraminifers	Shell Fragments	Sponge Spicules	Radiolarians	Siliceous Matrix	Fecal Pellet	Micrite	Sparite	Organic Debris/Organic Matter	Other		Lithology	Comments
Hole B (continued)																																									
45	R	3	108	111	400.43	58	D				15					7			10				1		15								45	14	3		100	Chalk with foraminifers and clay	Micrite matrix. Microsparite (recrystallization).
45	R	4	114	117	401.90	59	D				42					10			10				3			*							10		25		100	Organic matter claystone	Micrite in background.
46	R	2	103	106	404.77	60	D				28					5			3				7			11				8			30		8		100	Clayey chalk with foraminifers	Silicification concentrated in certain layers. Opaque minerals are spherical. Micrite in matrix. Fish remains include phosphate.
51	R	2	109	112	428.81	61	M		83		7					1							5			3		1									100	Diagenetic calcite / Calcite concretion	Diagenetic calcite. Fish remains in one layer.
53	R	1	23	28	436.13	62	M				24					3				*			25			15							25		8		100	Alternating calcareous claystone and phosphorite sand	Spectacular thin section. Fish remains include phosphate. 15% micrite in matrix, 10% micrite in flattened pellets.
54	R	1	8	11	441.58	63	M		89		8												*			*							3				100	Diagenetic calcite concretionary layer	Coarse-grained diagenetic calcite.
54	R	1	42	45	441.92	64	D				20												3			5							17	54	1		100	Limestone with clay	Microspar to sparite. 10% micrite in clusters, 7% micrite in pellets.
54	R	1	66	69	442.16	65	D				15					1							1			7		7						68	1		100	Limestone with clay / Wackestone	Laminated foraminifer sand. Bioclasts are bivalve debris including Inoceramus. Foraminifers are fragments.
54	R	1	77	80	442.27	66	D				15					2				20			*			8							30	25			100	Limestone with bioclasts / Wackestone	Micrite peloids. Microspar matrix. Bioclasts are bivalves and juvenile ammonites.
55	R	1	12	15	445.62	67					20							*					4			8		8						57	3		100	Wackestone with foraminifers and calcareous shell fragments	Microsparite is recrystallized matrix. Clay includes dark material (oxides) incorporated. Foraminifers are filled with blocky calcite. Shells include oysters and neomorphic shells.
55	R	2	84	86	447.46	68	D		50		20					2							9			4							13		2		100	Calcareous claystone / Diagenetic calcite	Black shale replaced by diagenetic calcite (cone-in-cone structure). Foraminifers are filled with blocky calcite.

Sample								Mineral														Biogenic												Rock								
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Hole B (continued)																																										
56	R	2	30	32	452.57	69	M				30									20			8			17							21	2	2		100	Bioclastic wackestone to packstone	Very poor thin section. Bioclasts are shell fragments. Sparite around shells. 10% micritic fecal pellets, 11% micrite in matrix.
56	R	3	59	61	453.70	70	M				5	*				4		*					15			1		25					5	45			100	Bioclastic limestone / Bivalve shell wacke	Fish remains include phosphate. Micrite is original matrix.
57	R	1	63	67	455.83	71			86		*			2	2	10		*							*											100	Limestone (diagenetic)	
Hole C																																										
15	R	3	93	97	393.70	72	D				20		*	1		3		1	20				1			1	*	2					50			1	100	Micrite with zeolite (radiolarians) and clay	CHALKY PART. Chalk/ black shale transition. Other material is opaque minerals with interesting outline— pseudomorphs after rhodochrosite?
15	R	3	93	97	393.70	72	D				38			3		4	5			1			2			7					9		23		7	1	100	Calcareous claystone	BLACK SHALE. Chalk/ black shale transition.
15	R	3	123	126	394.00	73	D				10					2										10							65	10	3		100	Micrite with foraminifers (foraminifer wackestone)	Peloidal(?) micrite. Granular organic debris.
27	R	2	29	32	449.20	74	M			98																										2	100	Limestone (diagenetic)	Calcite is very well crystallized patch work of different crystal sizes. Ghosts of original beef structure. Other 2% is unknown remains of original mud.
27	R	2	45	48	449.36	75				67						11							10			5		5							2		100	Limestone with pyrite	Opaque mineral is probably pyrite. Calcite is sparite.