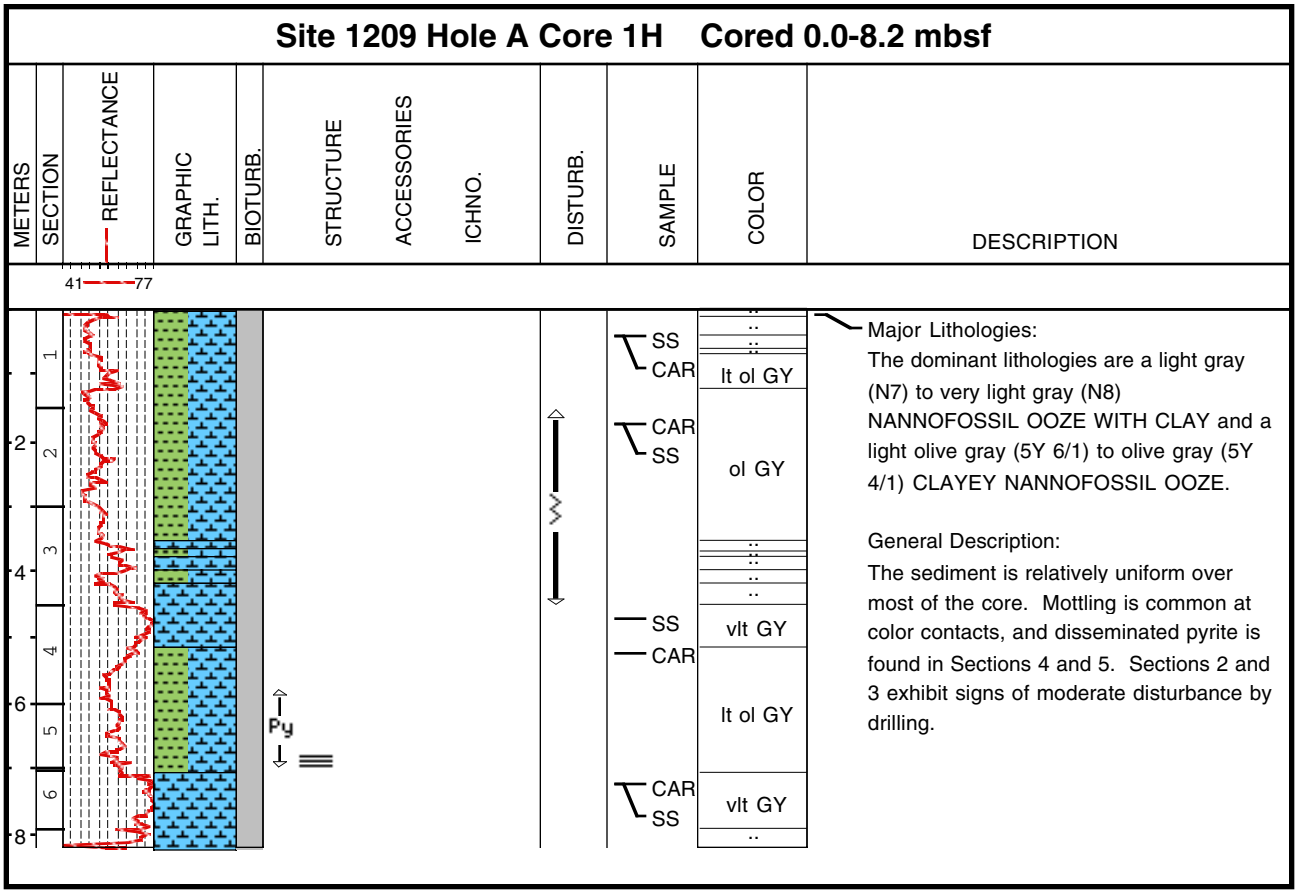
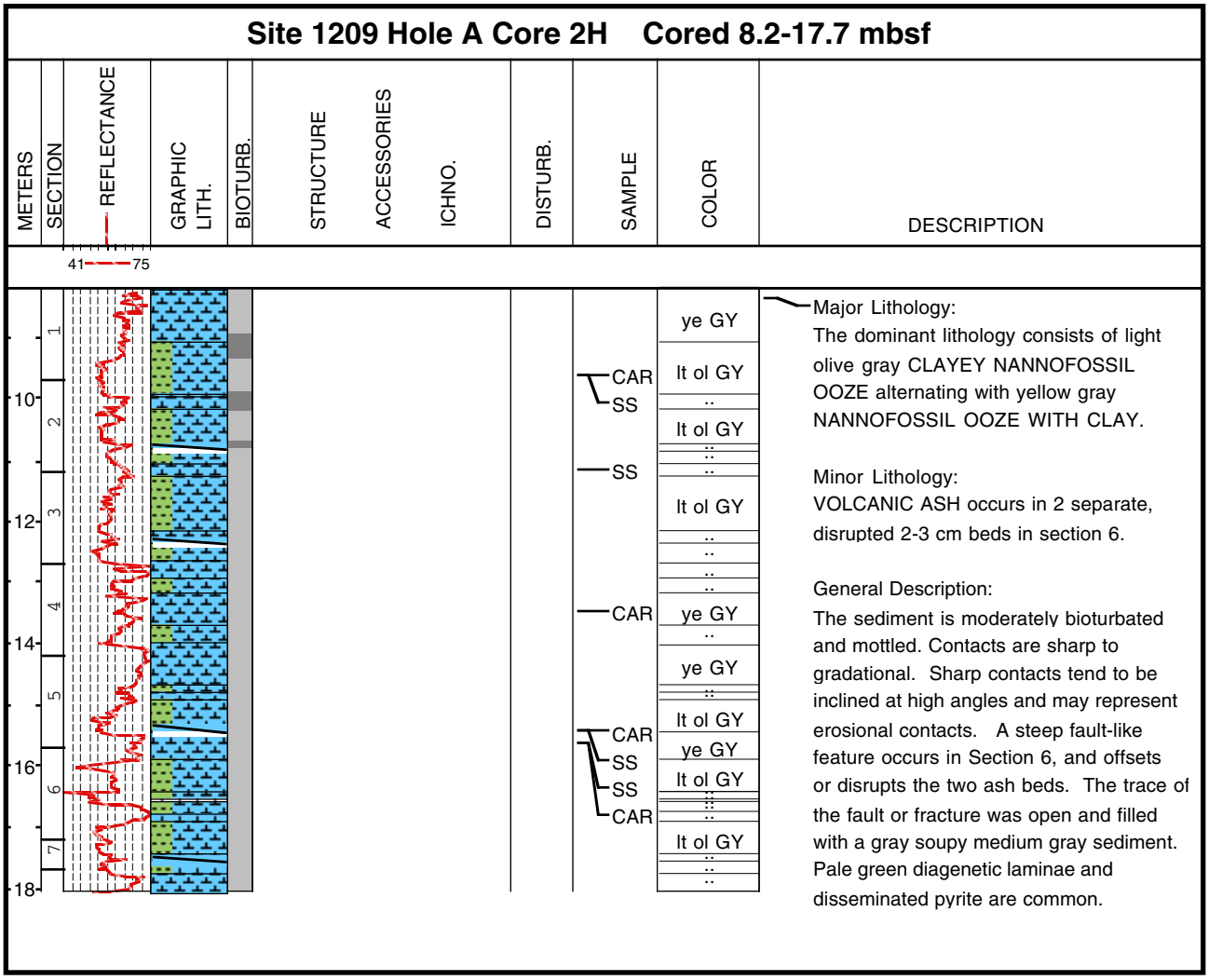
Core Photo

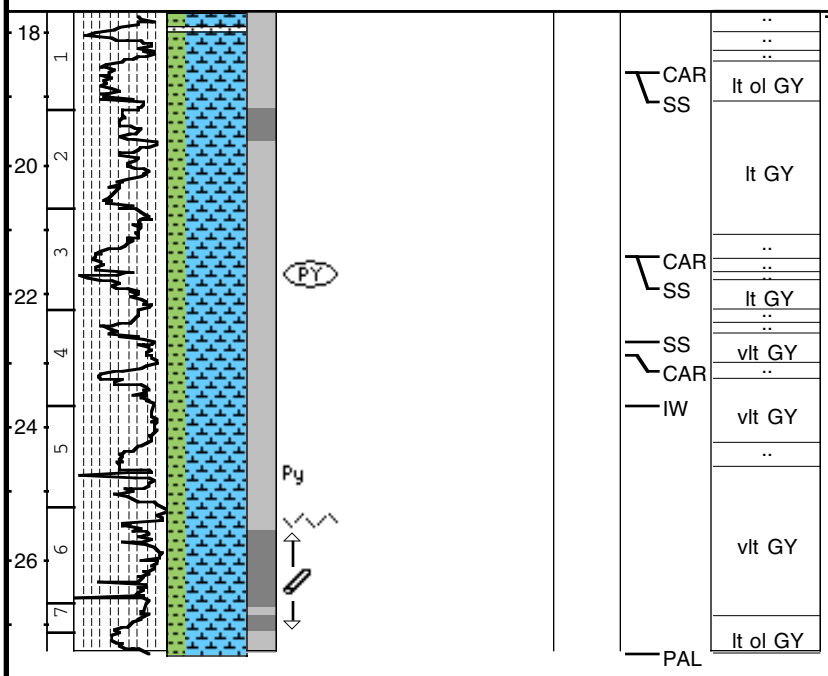

Site 1209 Hole A Core 1H Cored 0.0-8.2 mbsf
METERS
SECTION
REFLECTANCE
41
77
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
2
4
6
8
1
2
3
4
5
6
Py
SS
CAR
CAR
SS
SS
CAR
CAR
SS
lt ol GY
ol GY
vlt GY
lt ol GY
vlt GY
Major Lithologies:
The dominant lithologies are a light gray (N7) to very light gray (N8) NANNOFOSSIL OOZE WITH CLAY and a light olive gray (5Y 6/1) to olive gray (5Y 4/1) CLAYEY NANNOFOSSIL OOZE.
General Description:
The sediment is relatively uniform over most of the core. Mottling is common at color contacts, and disseminated pyrite is found in Sections 4 and 5. Sections 2 and 3 exhibit signs of moderate disturbance by drilling.

Core Photo


Site 1209 Hole A Core 2H Cored 8.2-17.7 mbsf
METERS
SECTION
REFLECTANCE
41
75
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
10
12
14
16
18
1
2
3
4
5
6
7
CAR
SS
SS
CAR
CAR
SS
SS
CAR
ye GY
lt ol GY
lt ol GY
lt ol GY
ye GY
ye GY
lt ol GY
ye GY
lt ol GY
lt ol GY
Major Lithology:
The dominant lithology consists of light olive gray CLAYEY NANNOFOSSIL OOZE alternating with yellow gray NANNOFOSSIL OOZE WITH CLAY.
Minor Lithology:
VOLCANIC ASH occurs in 2 separate, disrupted 2-3 cm beds in section 6.
General Description:
The sediment is moderately bioturbated and mottled. Contacts are sharp to gradational. Sharp contacts tend to be inclined at high angles and may represent erosional contacts. A steep fault-like feature occurs in Section 6, and offsets or disrupts the two ash beds. The trace of the fault or fracture was open and filled with a gray soupy medium gray sediment. Pale green diagenetic laminae and disseminated pyrite are common.

Core Photo

Site 1209 Hole A Core 3H Cored 17.7-27.2 mbsf



DESCRIPTION

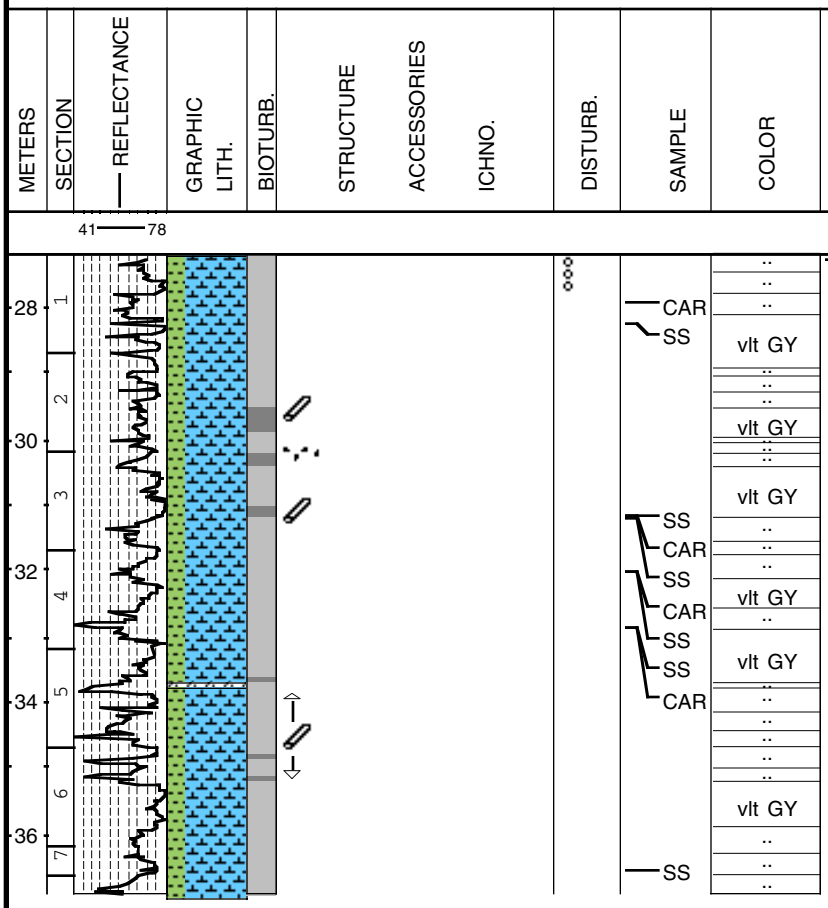
Major Lithology:
The lithology is dominated by alternating beds of very light gray (N8) NANNOFOSSIL OOZE WITH CLAY and light olive gray (5Y 6/1) CLAYEY NANNOFOSSIL OOZE.

Minor lithology:
VOLCANIC ASH layers are present in sections 1 and 6; The Section 1 layer is 5 cm thick. Three separate cenitmeter thick, truncated ash layers are observed in Section 6.

General Description:
The ooze is moderately bioturbated, with mottles observable only near color/lithologic contacts. Contacts are sharp to gradational. A sharp, inclined contact is observed in Section 1. There is a prominent large burrow and/or fracture cutting through Section 6, filled with a medium gray ooze. A similar burrow occurs in section 7, here filled with a pale yellowish brown ooze. The ash layers between 22 and 30 cm in Section 6 appear to be truncated.

Core Photo

Site 1209 Hole A Core 4H Cored 27.2-36.7 mbsf



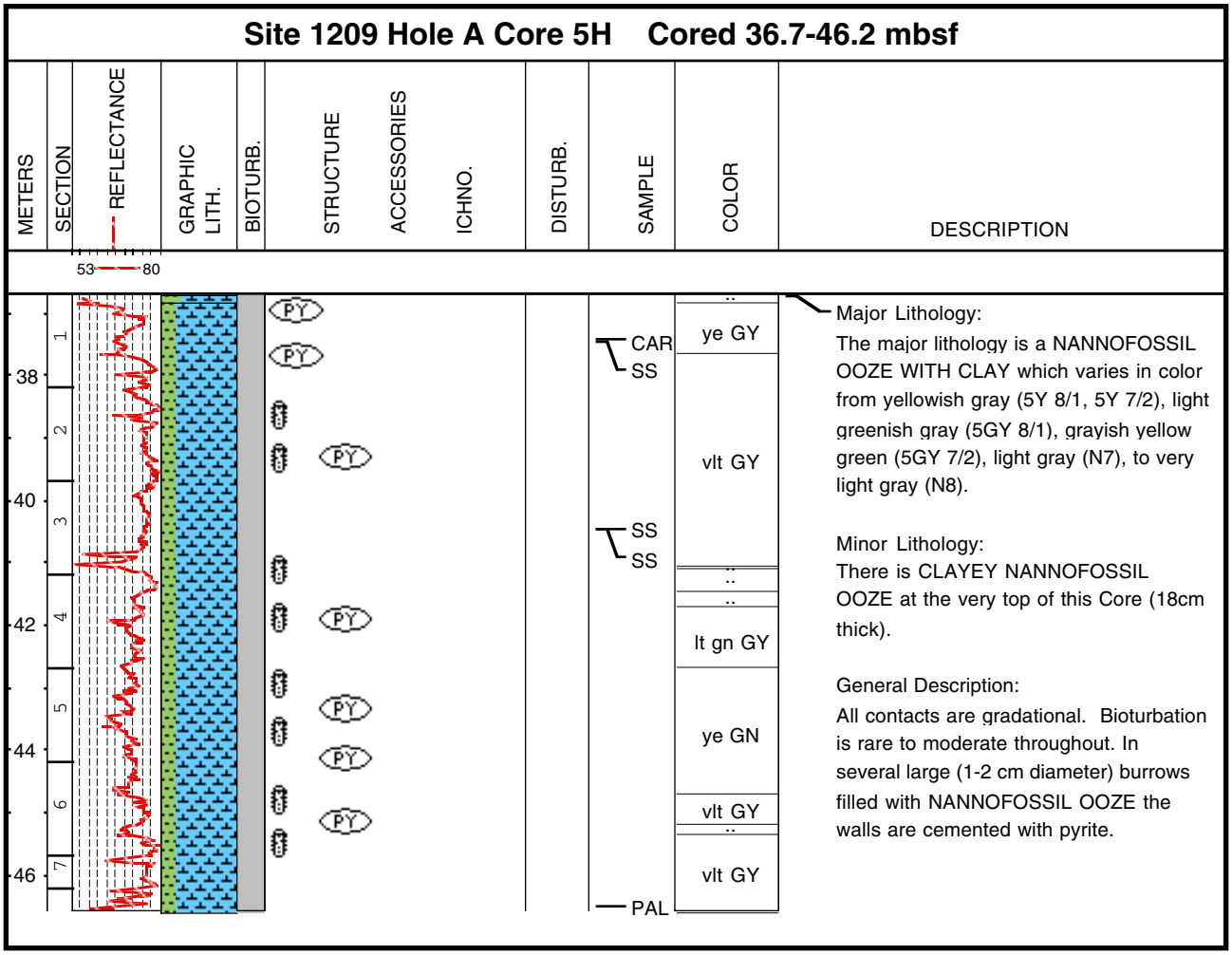
DESCRIPTION

Major Lithology:
The primary lithology consists of alternating beds of very light gray (N8) NANNOFOSSIL OOZE WITH CLAY to light olive gray (5Y 6/1) CLAYEY NANNOFOSSIL OOZE.

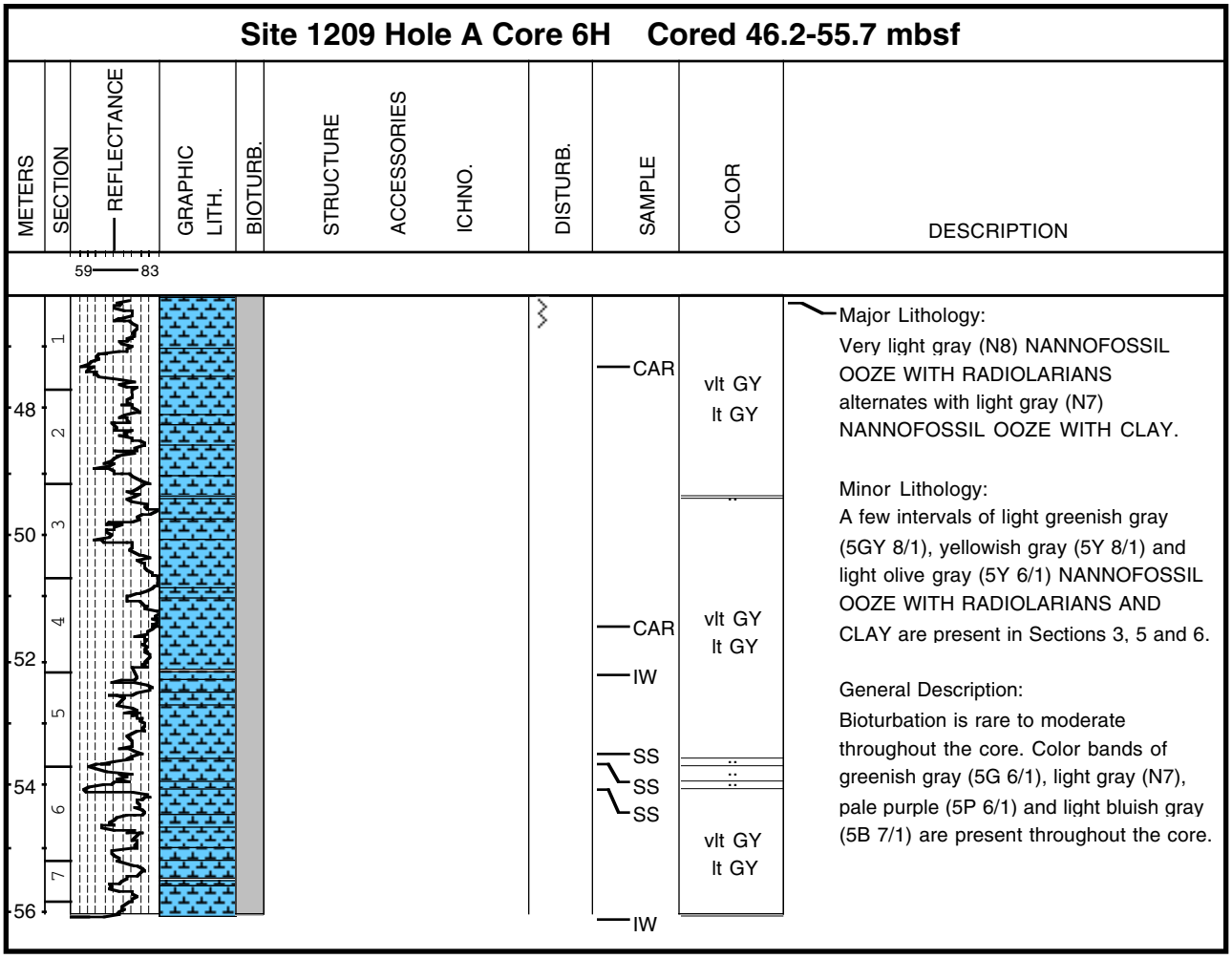
Minor Lithology:
A VOLCANIC ASH is present in Section 5; a PYRITIC NANNOFOSSIL OOZE fills the open burrows.

General Description:
All contacts are gradational except for a sharp contact at the base of the ash layer in Section 5. Bioturation is rare to moderate, and mottling indistinct throughout. Several large (1-5 cm wide) open burrows are filled with pyritic (up to 40%) nannofossil ooze that ranges from medium gray (N5) to pale olive (10Y 6/2) in color. Green laminae are present throughout, but are particularly prominent in Section 7 at 10 and 30 cm.

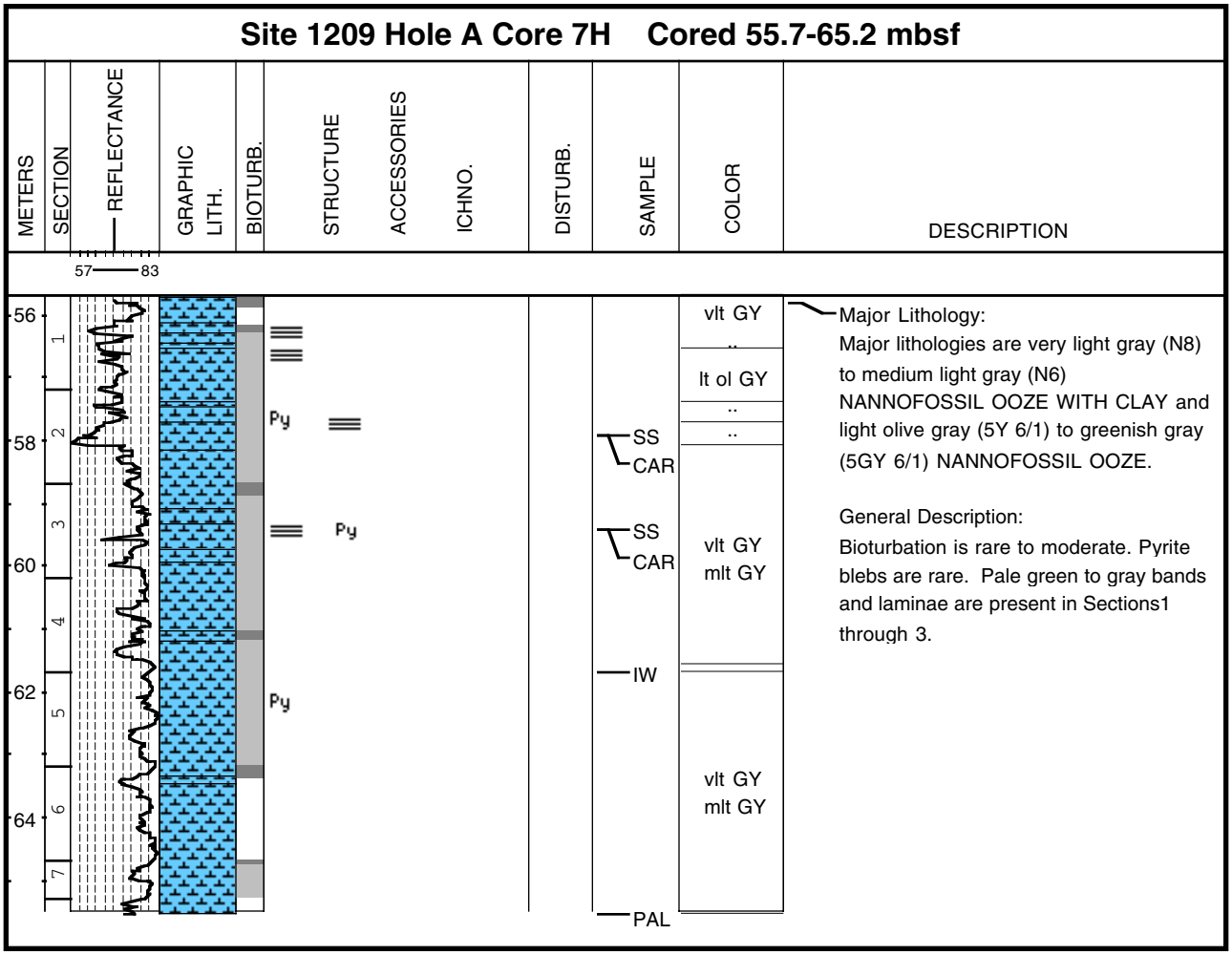
Core Photo


Site 1209 Hole A Core 5H Cored 36.7-46.2 mbsf
METERS
SECTION
REFLECTANCE
53
80
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
38
40
42
44
46
1
2
3
4
5
6
7
PY
CAR
SS
SS
SS
PAL
ye GY
vlt GY
lt gn GY
ye GN
vlt GY
vlt GY
Major Lithology:
The major lithology is a NANNOFOSSIL OOZE WITH CLAY which varies in color from yellowish gray (5Y 8/1, 5Y 7/2), light greenish gray (5GY 8/1), grayish yellow green (5GY 7/2), light gray (N7), to very light gray (N8).
Minor Lithology:
There is CLAYEY NANNOFOSSIL OOZE at the very top of this Core (18cm thick).
General Description:
All contacts are gradational. Bioturbation is rare to moderate throughout. In several large (1-2 cm diameter) burrows filled with NANNOFOSSIL OOZE the walls are cemented with pyrite.

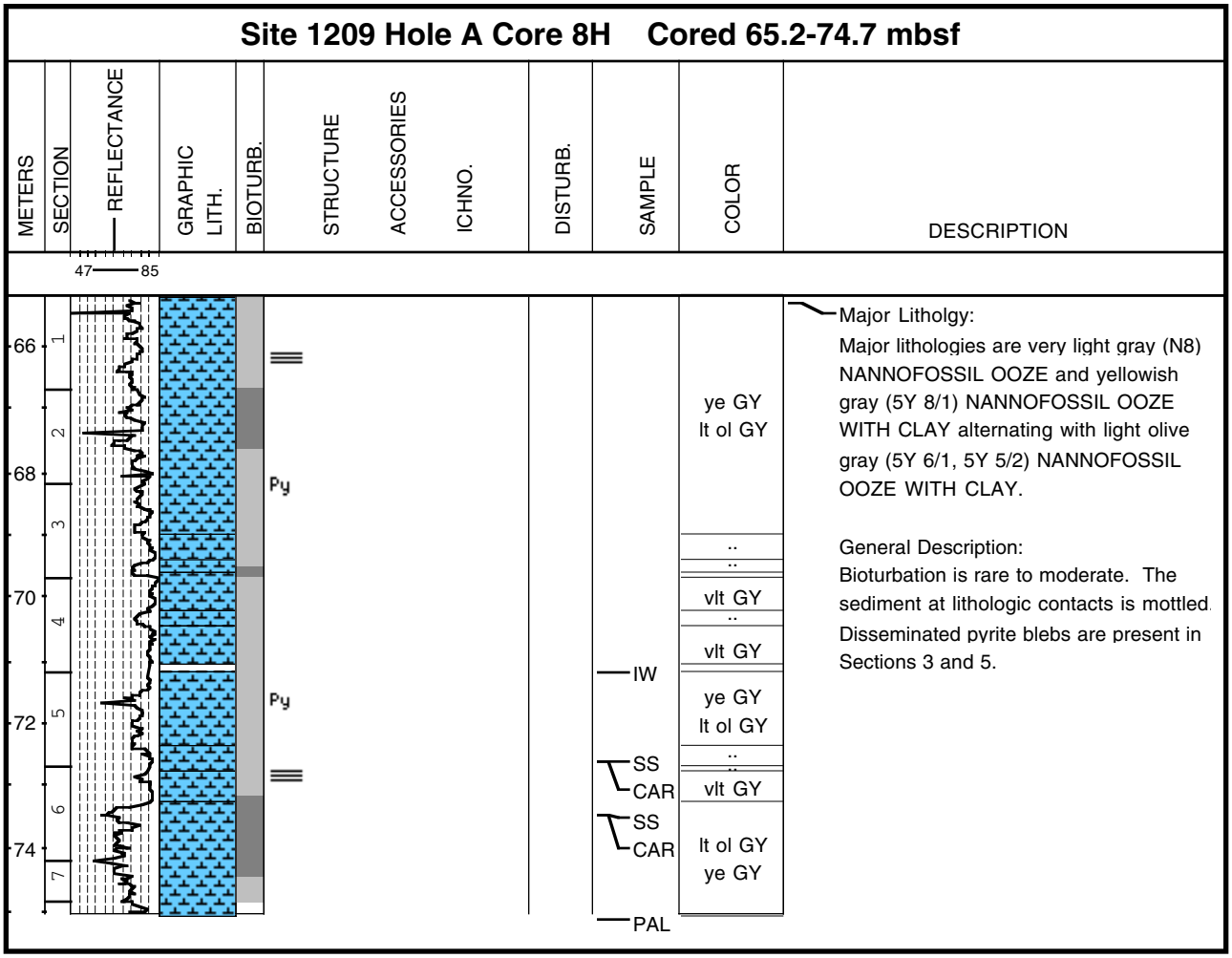
Core Photo


Site 1209 Hole A Core 6H Cored 46.2-55.7 mbsf
METERS
SECTION
REFLECTANCE
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
59
83
48
50
52
54
56
1
2
3
4
5
6
7
CAR
CAR
IW
SS
SS
SS
IW
vlt GY
lt GY
vlt GY
lt GY
vlt GY
lt GY
Major Lithology:
Very light gray (N8) NANNOFOSSIL OOZE WITH RADIOLARIANS alternates with light gray (N7) NANNOFOSSIL OOZE WITH CLAY.
Minor Lithology:
A few intervals of light greenish gray (5GY 8/1), yellowish gray (5Y 8/1) and light olive gray (5Y 6/1) NANNOFOSSIL OOZE WITH RADIOLARIANS AND CLAY are present in Sections 3, 5 and 6.
General Description:
Bioturbation is rare to moderate throughout the core. Color bands of greenish gray (5G 6/1), light gray (N7), pale purple (5P 6/1) and light bluish gray (5B 7/1) are present throughout the core.

Core Photo

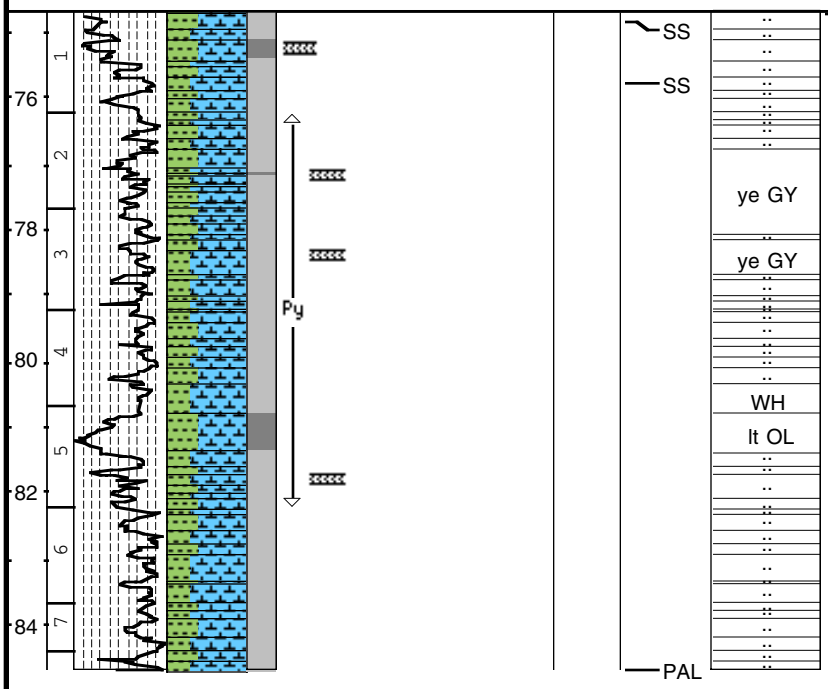

Site 1209 Hole A Core 7H Cored 55.7-65.2 mbsf
METERS
SECTION
REFLECTANCE
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
57
83
56
58
60
62
64
1
2
3
4
5
6
7
Py
Py
Py
SS
CAR
SS
CAR
IW
PAL
vlt GY
lt ol GY
vlt GY
mlt GY
vlt GY
mlt GY
Major Lithology:
Major lithologies are very light gray (N8) to medium light gray (N6) NANNOFOSSIL OOZE WITH CLAY and light olive gray (5Y 6/1) to greenish gray (5GY 6/1) NANNOFOSSIL OOZE.
General Description:
Bioturbation is rare to moderate. Pyrite blebs are rare. Pale green to gray bands and laminae are present in Sections1 through 3.

Core Photo


Site 1209 Hole A Core 8H Cored 65.2-74.7 mbsf
METERS
SECTION
REFLECTANCE
47
85
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
66
68
70
72
74
1
2
3
4
5
6
7
Py
Py
IW
SS
CAR
SS
CAR
PAL
ye GY
lt ol GY
vlt GY
vlt GY
ye GY
lt ol GY
vlt GY
lt ol GY
ye GY
Major Litholgy:
Major lithologies are very light gray (N8) NANNOFOSSIL OOZE and yellowish gray (5Y 8/1) NANNOFOSSIL OOZE WITH CLAY alternating with light olive gray (5Y 6/1, 5Y 5/2) NANNOFOSSIL OOZE WITH CLAY.
General Description:
Bioturbation is rare to moderate. The sediment at lithologic contacts is mottled.
Disseminated pyrite blebs are present in Sections 3 and 5.

Core Photo

Site 1209 Hole A Core 9H Cored 74.7-84.2 mbsf

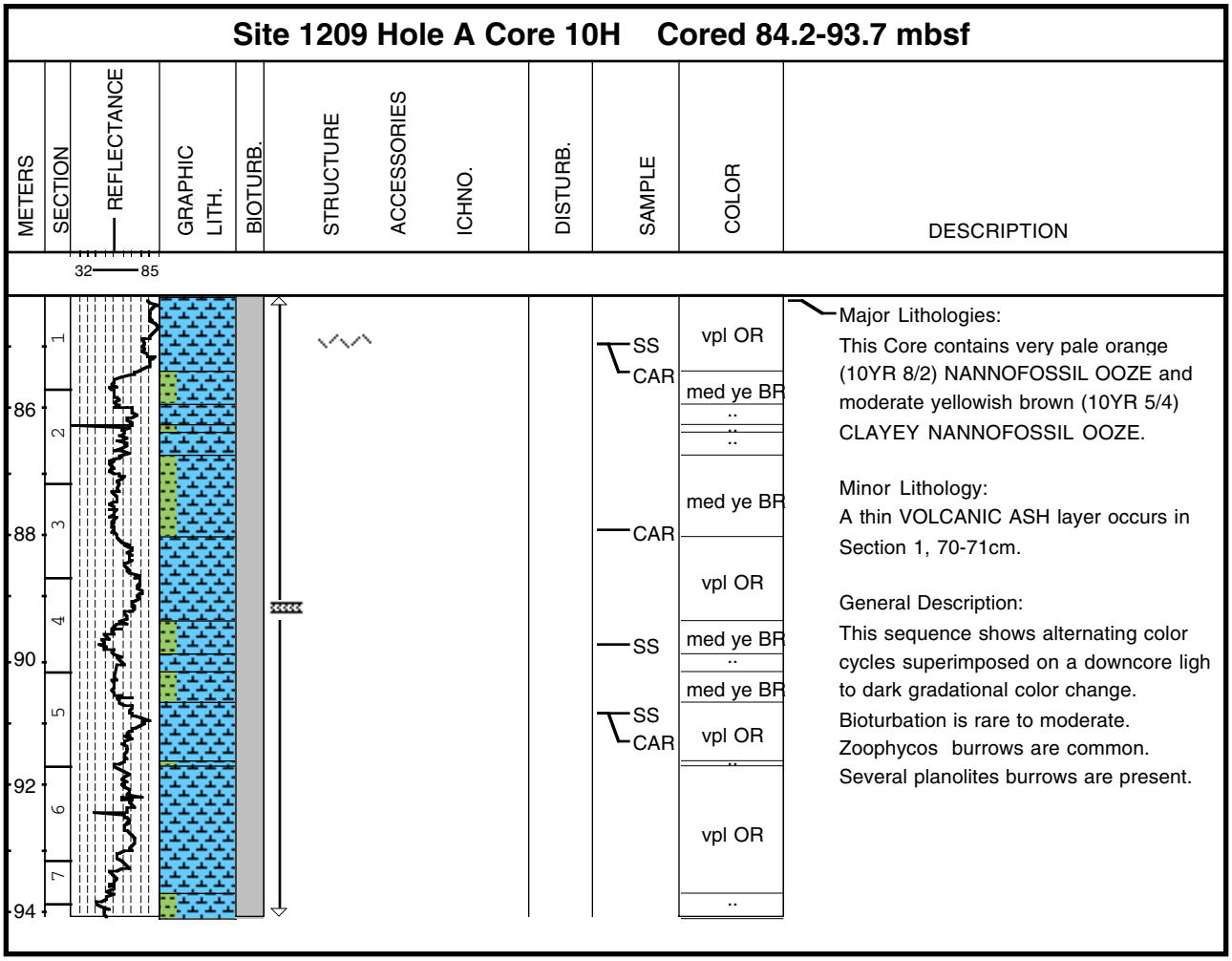


DESCRIPTION

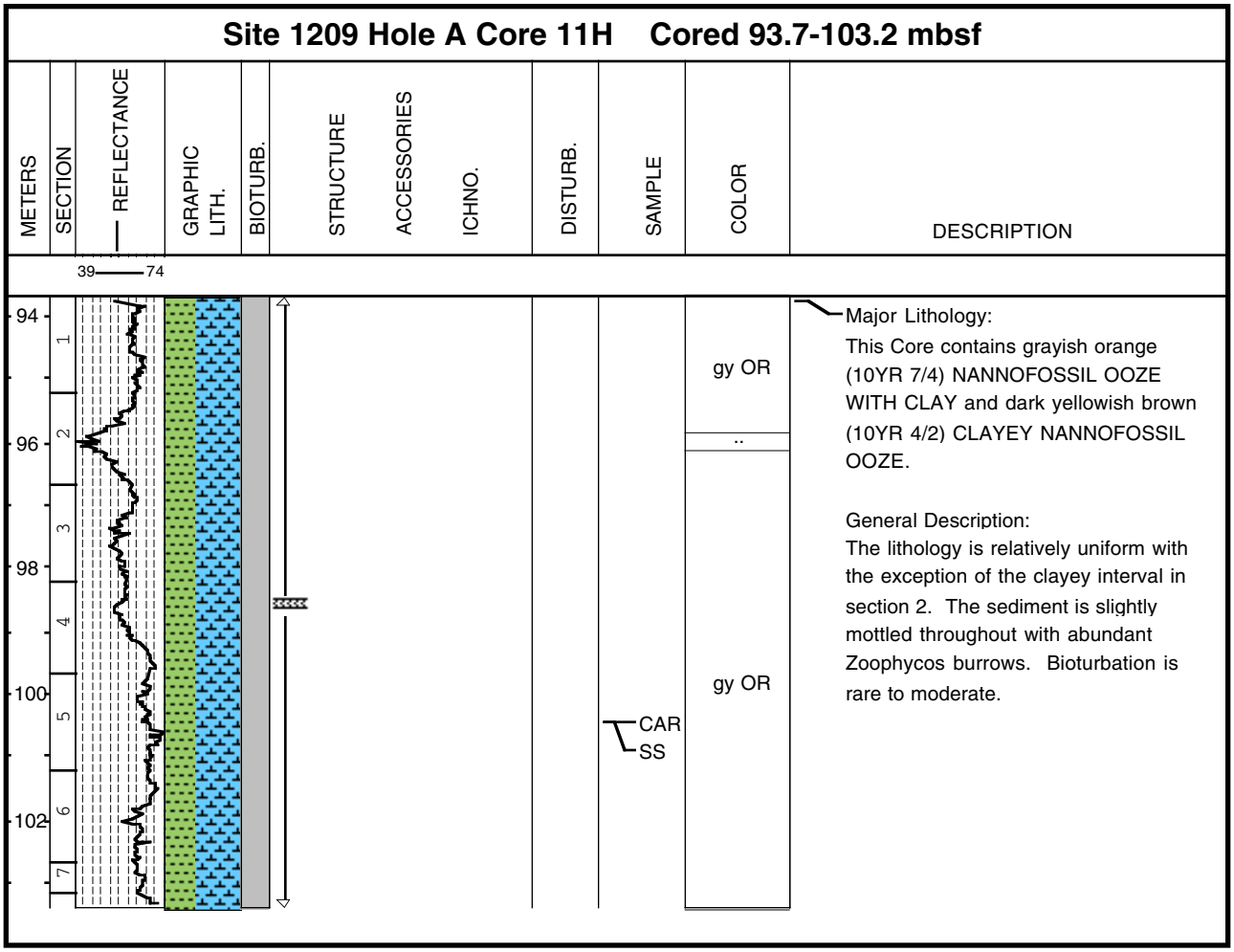
Major Lithology:
This Core consists of alternating layers of light NANNOFOSSIL OOZE WITH CLAY and dark CLAYEY NANNOFOSSIL OOZE. Light colors are white (N9) and yellowish gray (5Y 8/1). Dark colors are pale yellowish brown (10YR 6/2), yellowish gray (5Y 7/2), very pale orange (10YR 8/2), light olive gray (5Y 6/1) and light olive (5Y 5/2).

General Description:
Bioturbation is rare to moderate. Disseminated pyrite is present in Sections 2, 3, 4 and 5. Rare Zoophycos burrows are present in Sections 1, 2, 3 and 5.

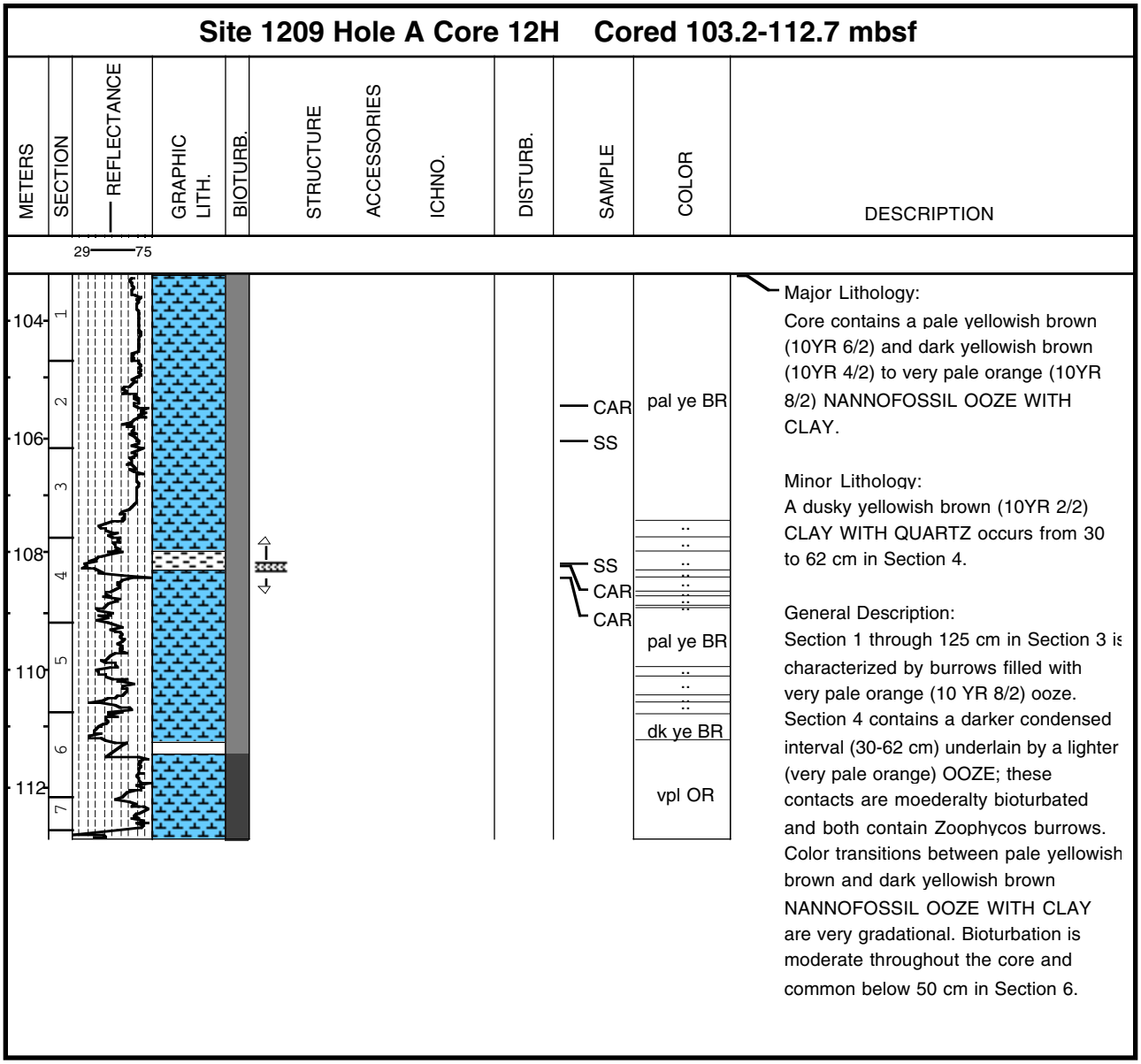
Core Photo


Site 1209 Hole A Core 10H Cored 84.2-93.7 mbsf
METERS
SECTION
REFLECTANCE
32
85
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
86
88
90
92
94
1
2
3
4
5
6
7
SS
CAR
SS
CAR
SS
CAR
vpl OR
med ye BR
med ye BR
vpl OR
med ye BR
med ye BR
vpl OR
vpl OR
Major Lithologies:
This Core contains very pale orange (10YR 8/2) NANNOFOSSIL OOZE and moderate yellowish brown (10YR 5/4) CLAYEY NANNOFOSSIL OOZE.
Minor Lithology:
A thin VOLCANIC ASH layer occurs in Section 1, 70-71cm.
General Description:
This sequence shows alternating color cycles superimposed on a downcore ligh to dark gradational color change.
Bioturbation is rare to moderate.
Zoophycos burrows are common.
Several planolites burrows are present.

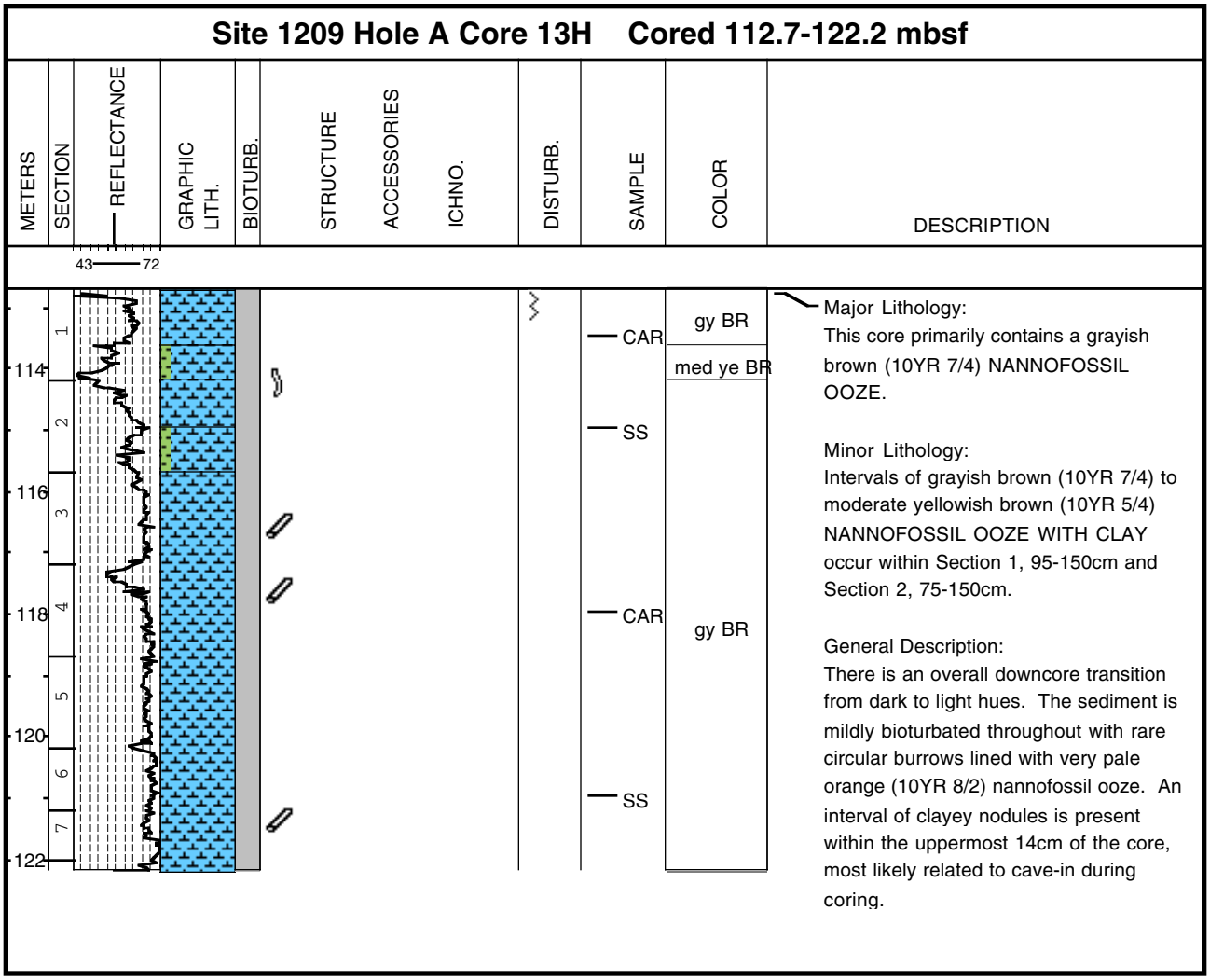
Core Photo


Site 1209 Hole A Core 11H Cored 93.7-103.2 mbsf
METERS
SECTION
REFLECTANCE
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
39
74
94
96
98
100
102
1
2
3
4
5
6
7
CAR
SS
gy OR
gy OR
Major Lithology:
This Core contains grayish orange (10YR 7/4) NANNOFOSSIL OOZE WITH CLAY and dark yellowish brown (10YR 4/2) CLAYEY NANNOFOSSIL OOZE.
General Description:
The lithology is relatively uniform with the exception of the clayey interval in section 2. The sediment is slightly mottled throughout with abundant Zoophycos burrows. Bioturbation is rare to moderate.

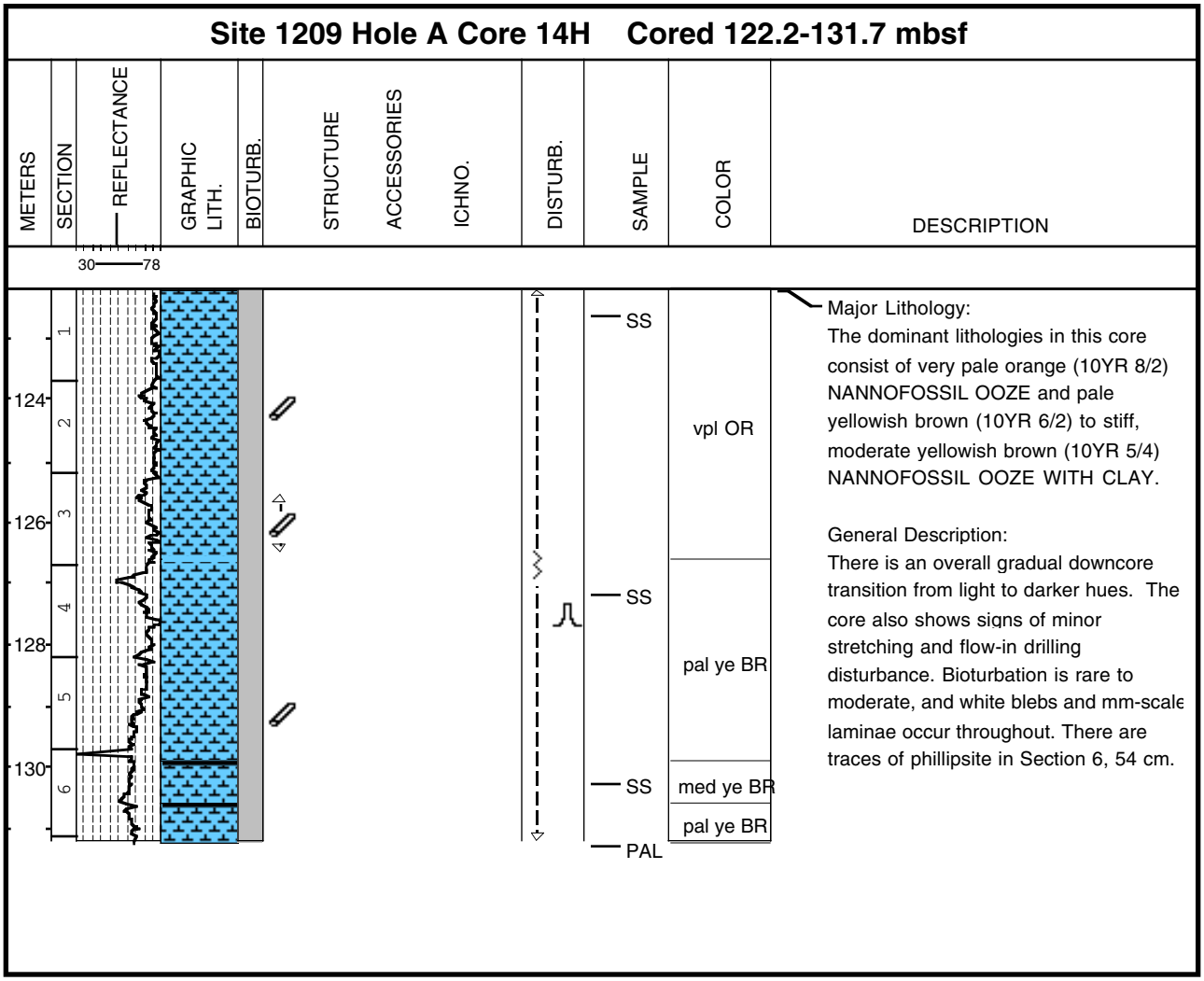
Core Photo


Site 1209 Hole A Core 12H Cored 103.2-112.7 mbsf
METERS
SECTION
REFLECTANCE
29
75
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
104
106
108
110
112
1
2
3
4
5
6
7
CAR
SS
SS
CAR
CAR
pal ye BR
pal ye BR
dk ye BR
vpl OR
Major Lithology:
Core contains a pale yellowish brown (10YR 6/2) and dark yellowish brown (10YR 4/2) to very pale orange (10YR 8/2) NANNOFOSSIL OOZE WITH CLAY.
Minor Lithology:
A dusky yellowish brown (10YR 2/2) CLAY WITH QUARTZ occurs from 30 to 62 cm in Section 4.
General Description:
Section 1 through 125 cm in Section 3 is characterized by burrows filled with very pale orange (10 YR 8/2) ooze. Section 4 contains a darker condensed interval (30-62 cm) underlain by a lighter (very pale orange) OOZE; these contacts are moederalty bioturbated and both contain Zoophycos burrows. Color transitions between pale yellowish brown and dark yellowish brown NANNOFOSSIL OOZE WITH CLAY are very gradational. Bioturbation is moderate throughout the core and common below 50 cm in Section 6.

Core Photo

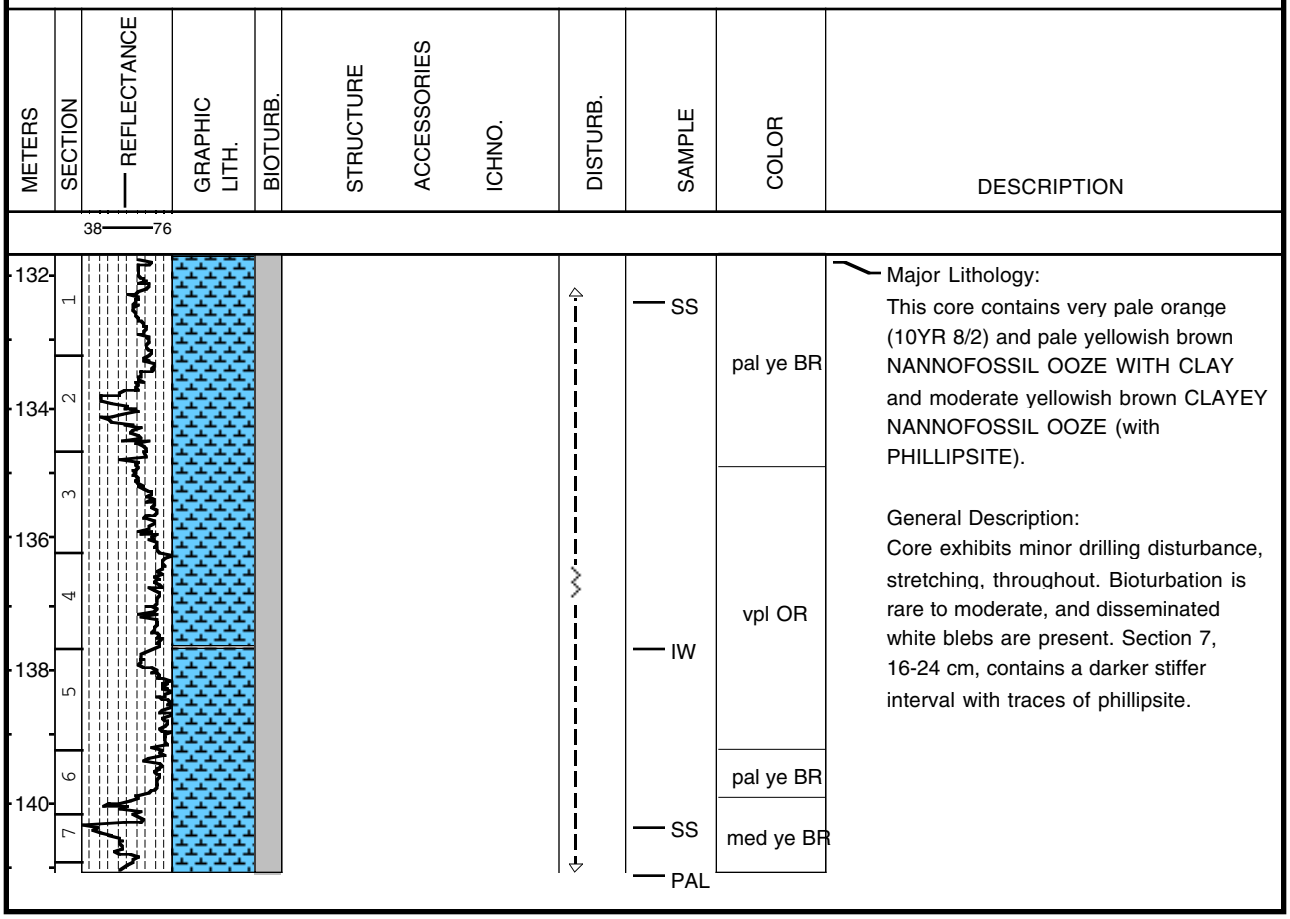

Site 1209 Hole A Core 13H Cored 112.7-122.2 mbsf
METERS
SECTION
REFLECTANCE
43
72
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
114
116
118
120
122
1
2
3
4
5
6
7
CAR
SS
CAR
SS
gy BR
med ye BR
gy BR
Major Lithology:
This core primarily contains a grayish brown (10YR 7/4) NANNOFOSSIL OOZE.
Minor Lithology:
Intervals of grayish brown (10YR 7/4) to moderate yellowish brown (10YR 5/4) NANNOFOSSIL OOZE WITH CLAY occur within Section 1, 95-150cm and Section 2, 75-150cm.
General Description:
There is an overall downcore transition from dark to light hues. The sediment is mildly bioturbated throughout with rare circular burrows lined with very pale orange (10YR 8/2) nannofossil ooze. An interval of clayey nodules is present within the uppermost 14cm of the core, most likely related to cave-in during coring.

Core Photo

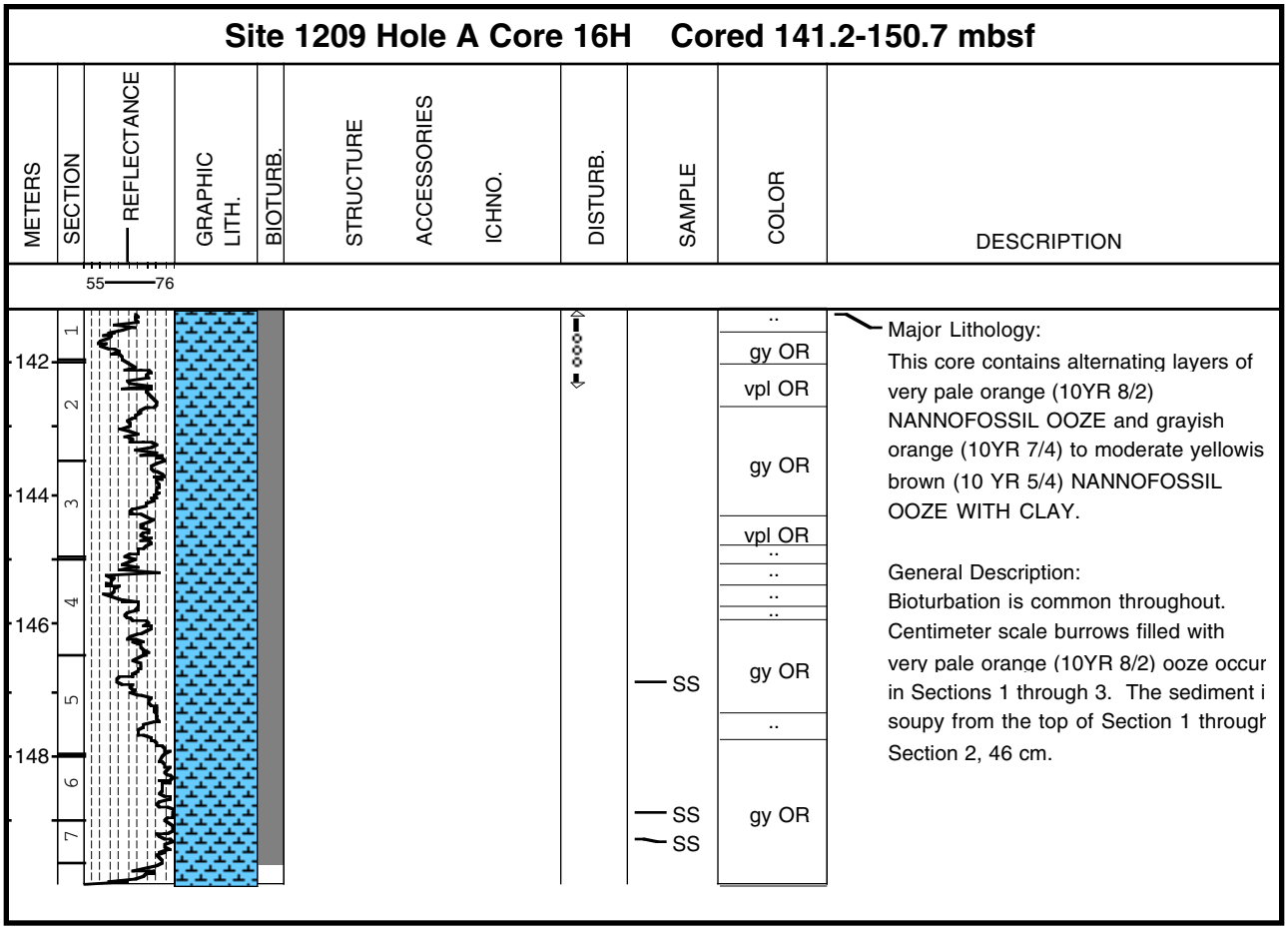

Site 1209 Hole A Core 14H Cored 122.2-131.7 mbsf
METERS
SECTION
REFLECTANCE
30
78
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
124
126
128
130
1
2
3
4
5
6
SS
SS
SS
PAL
vpl OR
pal ye BR
med ye BR
pal ye BR
Major Lithology:
The dominant lithologies in this core consist of very pale orange (10YR 8/2) NANNOFOSSIL OOZE and pale yellowish brown (10YR 6/2) to stiff, moderate yellowish brown (10YR 5/4) NANNOFOSSIL OOZE WITH CLAY.
General Description:
There is an overall gradual downcore transition from light to darker hues. The core also shows signs of minor stretching and flow-in drilling disturbance. Bioturbation is rare to moderate, and white blebs and mm-scale laminae occur throughout. There are traces of phillipsite in Section 6, 54 cm.

Core Photo

Site 1209 Hole A Core 15H Cored 131.7-141.2 mbsf

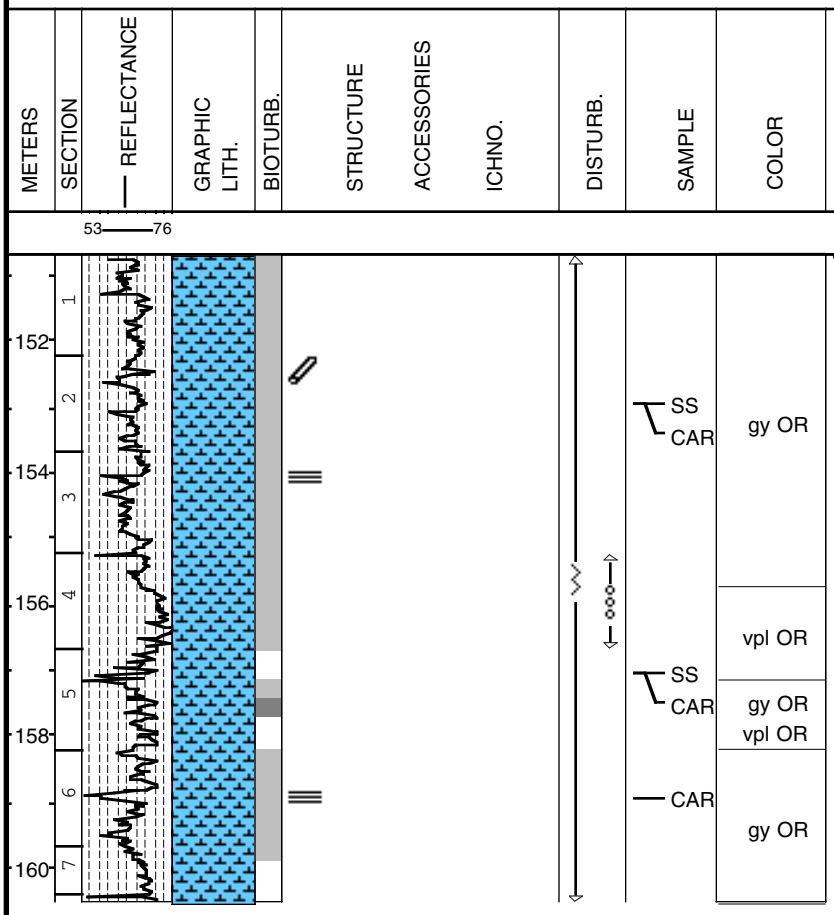


Core Photo


Site 1209 Hole A Core 16H Cored 141.2-150.7 mbsf
METERS
SECTION
REFLECTANCE
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
55
76
142
144
146
148
1
2
3
4
5
6
7
SS
SS
SS
..
gy OR
vpl OR
gy OR
vpl OR
..
..
..
..
gy OR
..
gy OR
Major Lithology:
This core contains alternating layers of very pale orange (10YR 8/2) NANNOFOSSIL OOZE and grayish orange (10YR 7/4) to moderate yellowis brown (10 YR 5/4) NANNOFOSSIL OOZE WITH CLAY.
General Description:
Bioturbation is common throughout. Centimeter scale burrows filled with very pale orange (10YR 8/2) ooze occur in Sections 1 through 3. The sediment i soupy from the top of Section 1 through Section 2, 46 cm.

Core Photo

Site 1209 Hole A Core 17H Cored 150.7-160.2 mbsf

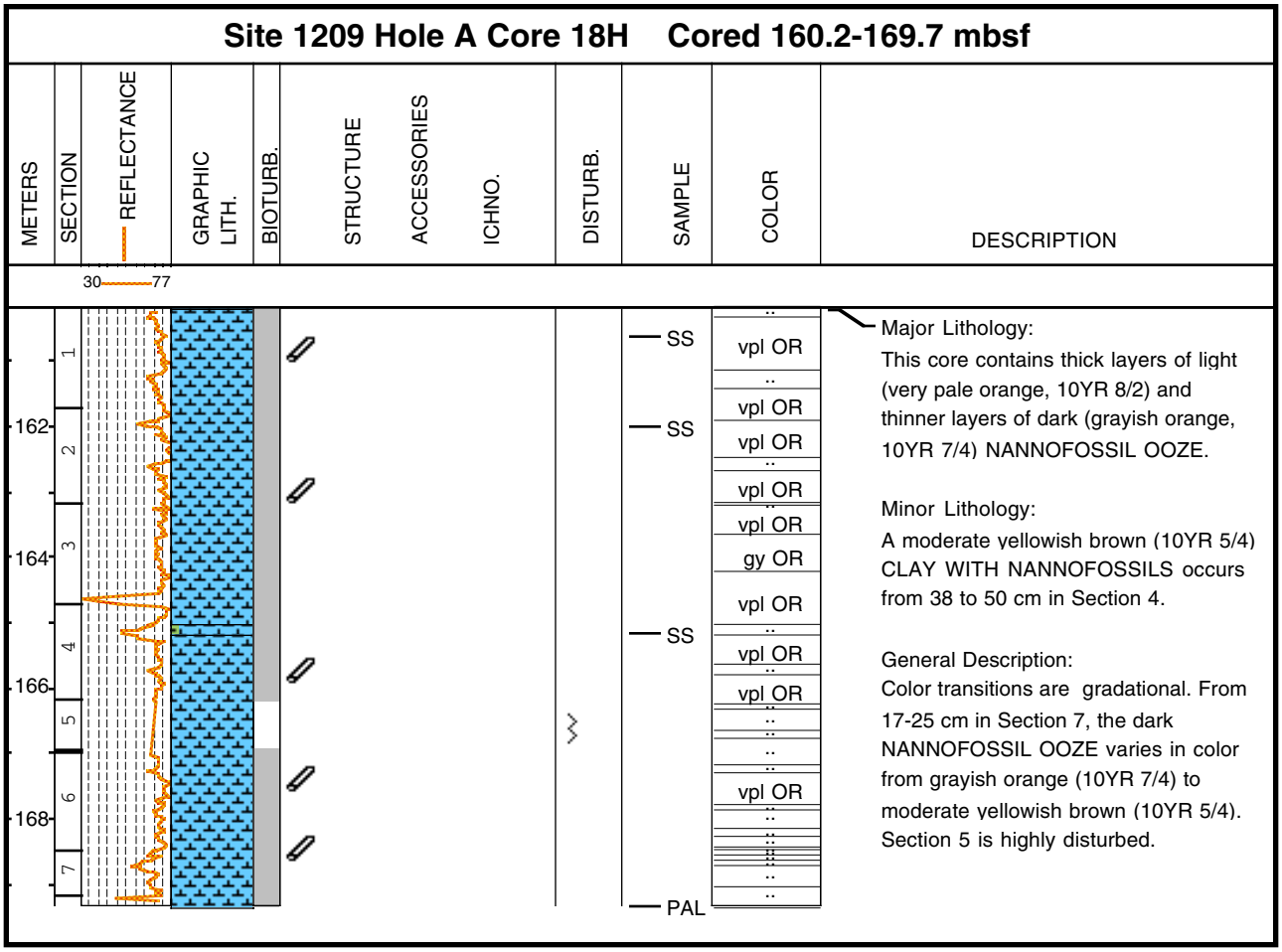


Major Lithology:
This core contains grayish orange (10YR 7/4) and very pale orange (10YR 8/2) NANNOFOSSIL OOZE WITH CLAY.

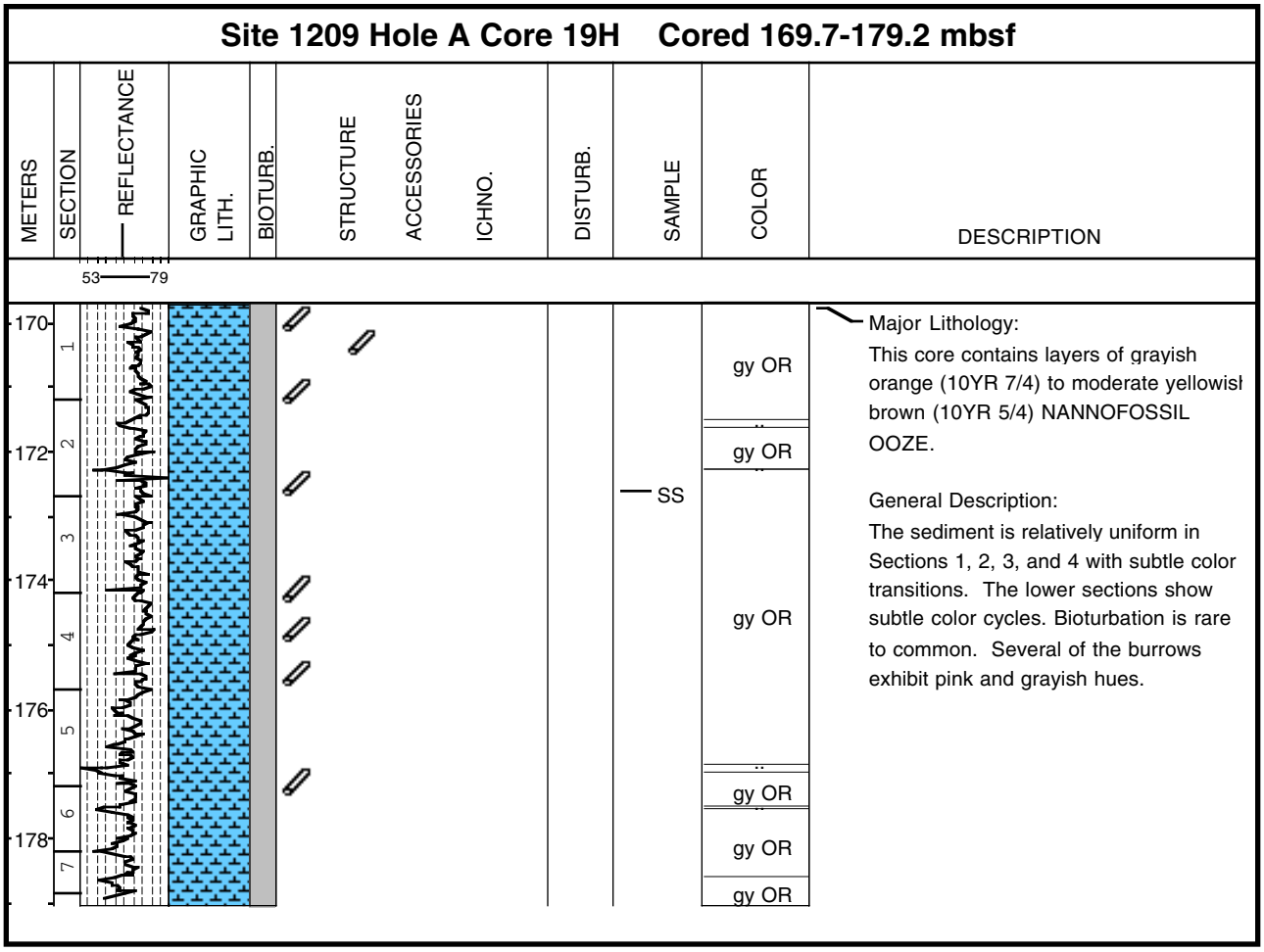
Minor Lithology:
In Sections 3, 34-35 cm, and 6, 70-80 cm, there are intervals with moderate yellowish brown NANNOFOSSIL OOZE WITH CLAY that are more stiff are present.

General Description:
Sediment is slightly disturbed by drilling (i.E., stretching and soupy). Bioturbation is mostly rare, but some moderately bioturbated intervals are present. Section 2, 22-34 cm, contains a U-shaped burrow. White blebs are scattered throughout this core. Intervals 29-35 cm and 40-46 cm in Section 5 are stiff and sticky.

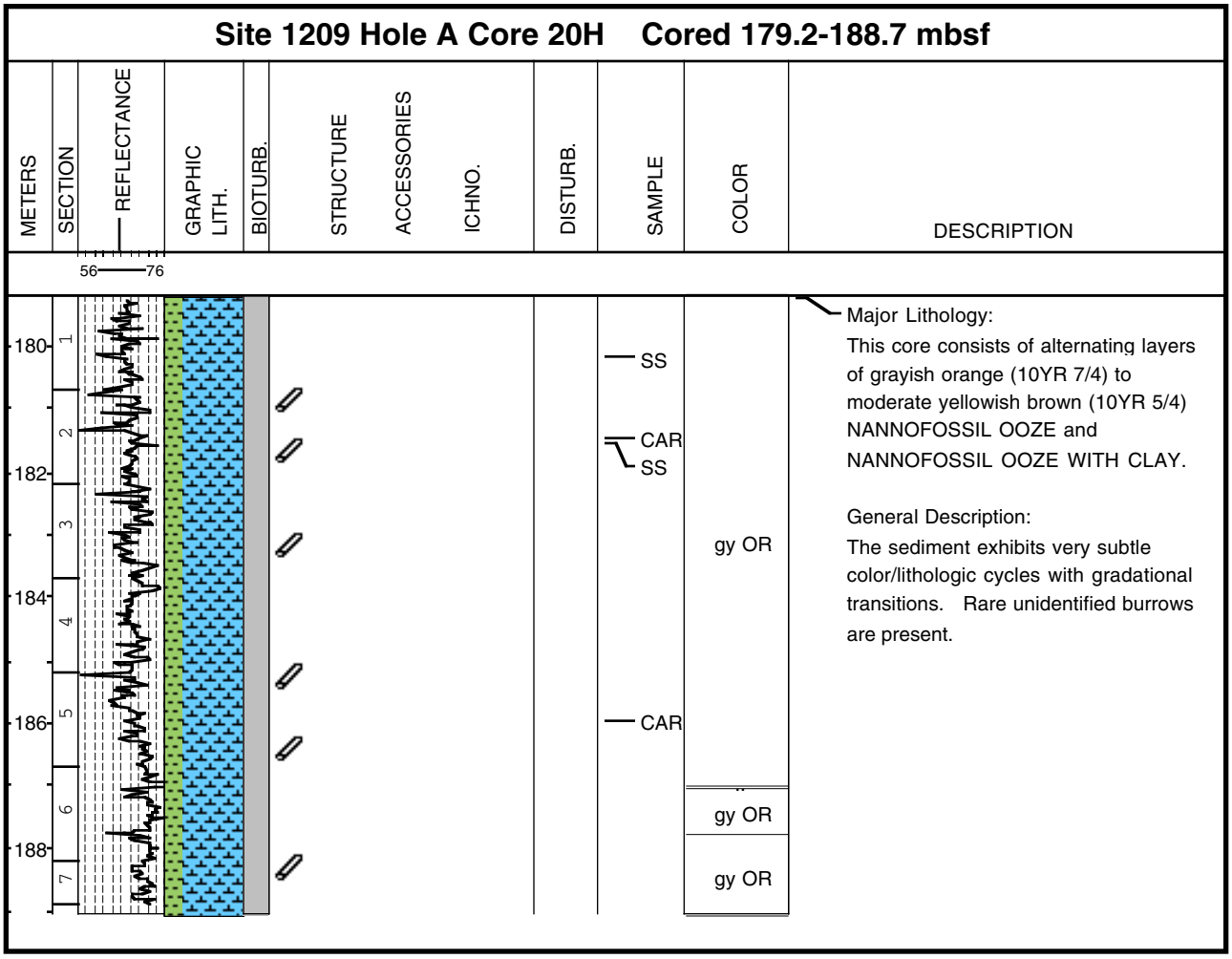
Core Photo


Site 1209 Hole A Core 18H Cored 160.2-169.7 mbsf
METERS
SECTION
REFLECTANCE
30
77
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
162
164
166
168
1
2
3
4
5
6
7
SS
SS
SS
PAL
vpl OR
vpl OR
vpl OR
vpl OR
vpl OR
gy OR
vpl OR
vpl OR
vpl OR
vpl OR
Major Lithology:
This core contains thick layers of light (very pale orange, 10YR 8/2) and thinner layers of dark (grayish orange, 10YR 7/4) NANNOFOSSIL OOZE.
Minor Lithology:
A moderate yellowish brown (10YR 5/4) CLAY WITH NANNOFOSSILS occurs from 38 to 50 cm in Section 4.
General Description:
Color transitions are gradational. From 17-25 cm in Section 7, the dark NANNOFOSSIL OOZE varies in color from grayish orange (10YR 7/4) to moderate yellowish brown (10YR 5/4). Section 5 is highly disturbed.

Core Photo

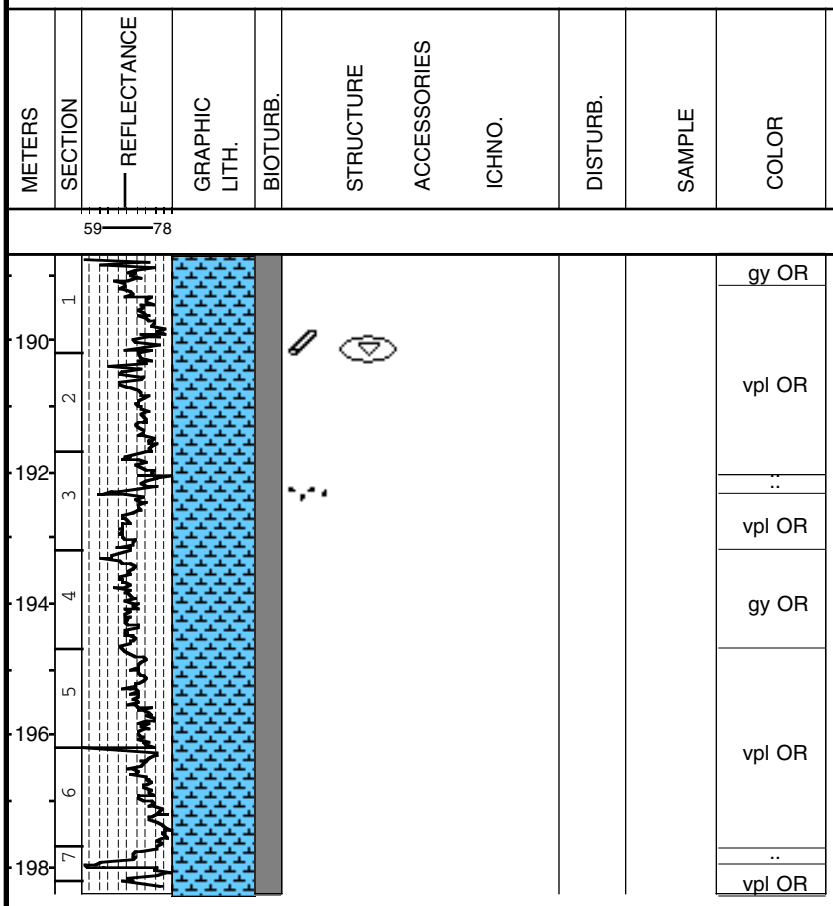

Site 1209 Hole A Core 19H Cored 169.7-179.2 mbsf
METERS
SECTION
REFLECTANCE
53
79
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
170
172
174
176
178
1
2
3
4
5
6
7
SS
gy OR
gy OR
gy OR
gy OR
gy OR
gy OR
Major Lithology:
This core contains layers of grayish orange (10YR 7/4) to moderate yellowish brown (10YR 5/4) NANNOFOSSIL OOZE.
General Description:
The sediment is relatively uniform in Sections 1, 2, 3, and 4 with subtle color transitions. The lower sections show subtle color cycles. Bioturbation is rare to common. Several of the burrows exhibit pink and grayish hues.

Core Photo


Site 1209 Hole A Core 20H Cored 179.2-188.7 mbsf
METERS
SECTION
REFLECTANCE
56
76
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
180
182
184
186
188
1
2
3
4
5
6
7
SS
CAR
SS
CAR
gy OR
gy OR
gy OR
Major Lithology:
This core consists of alternating layers of grayish orange (10YR 7/4) to moderate yellowish brown (10YR 5/4) NANNOFOSSIL OOZE and NANNOFOSSIL OOZE WITH CLAY.
General Description:
The sediment exhibits very subtle color/lithologic cycles with gradational transitions. Rare unidentified burrows are present.

Core Photo

Site 1209 Hole A Core 21H Cored 188.7-198.2 mbsf



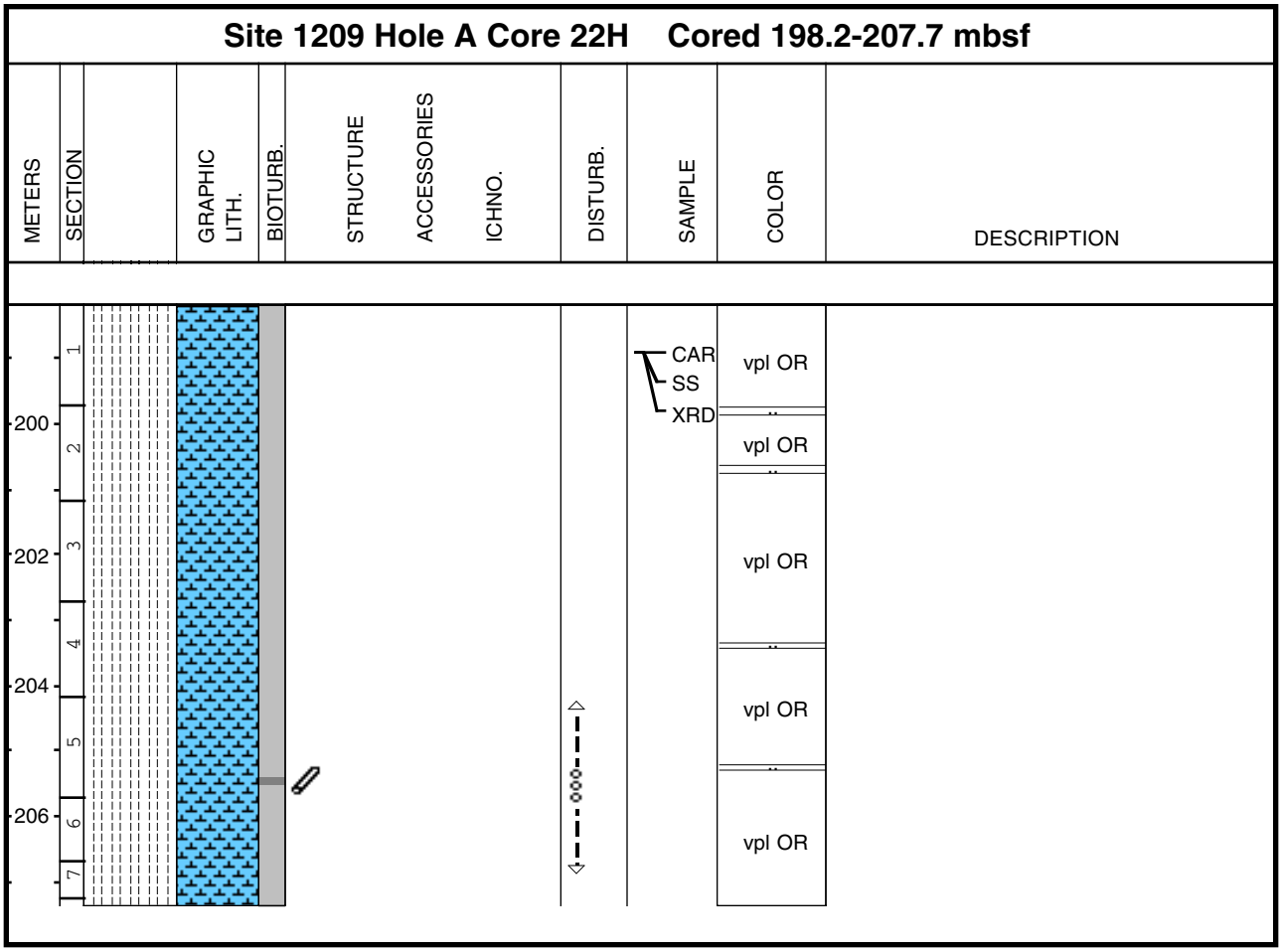
DESCRIPTION

Major Lithology:
This core consists mostly of very pale orange (10YR 8/2) NANNOFOSSIL OOZE.

Minor Litholgoy:
The minor lithology in this core is grayisl orange (10YR 7/4) NANNOFOSSIL OOZE.

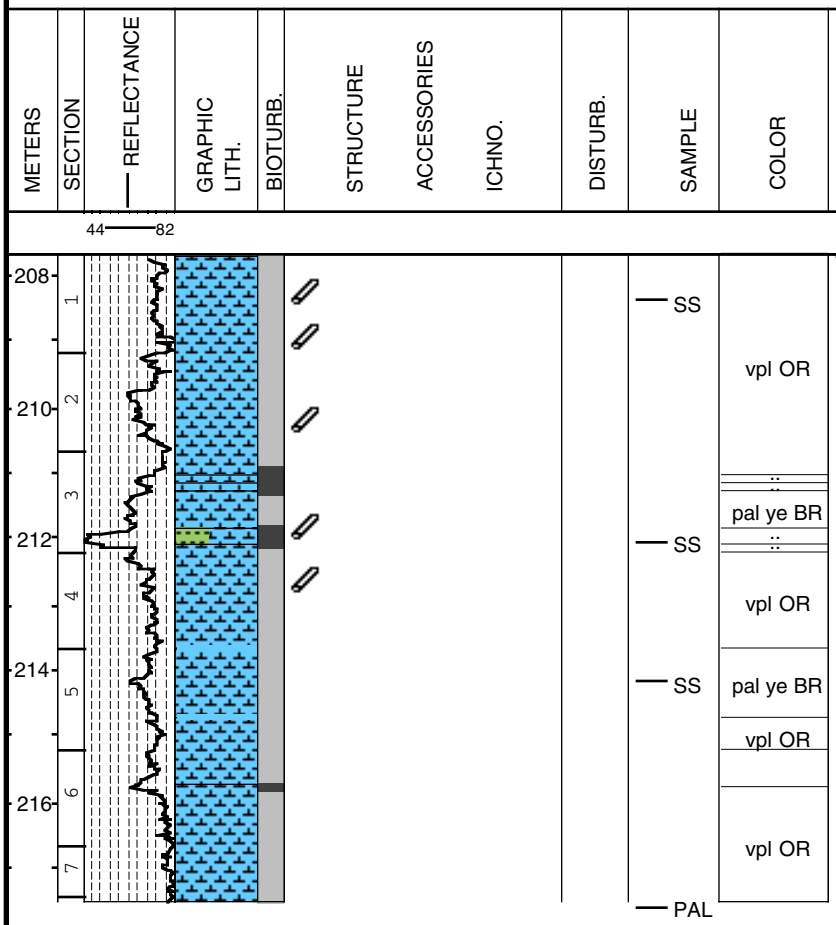
General Description:
The core shows a subtle downhole colo transition from light to dark back to light. The sediment is moderately burrowed throughout with slight mottling and a few white blebs and burrows with black halos. There is an obvious bioturbated color contact in Section 3, 57 to 63 cm. A 35 cm thick moderate yellowish brown (10YR 5/4) clay rich layer with a sharp basal contact occurs in Section 7, 30 cm. The upper contact is gradational.

Core Photo


Site 1209 Hole A Core 22H Cored 198.2-207.7 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
200
202
204
206
1
2
3
4
5
6
7
CAR
SS
XRD
vpl OR
vpl OR
vpl OR
vpl OR
vpl OR

Core Photo

Site 1209 Hole A Core 23H Cored 207.7-217.2 mbsf



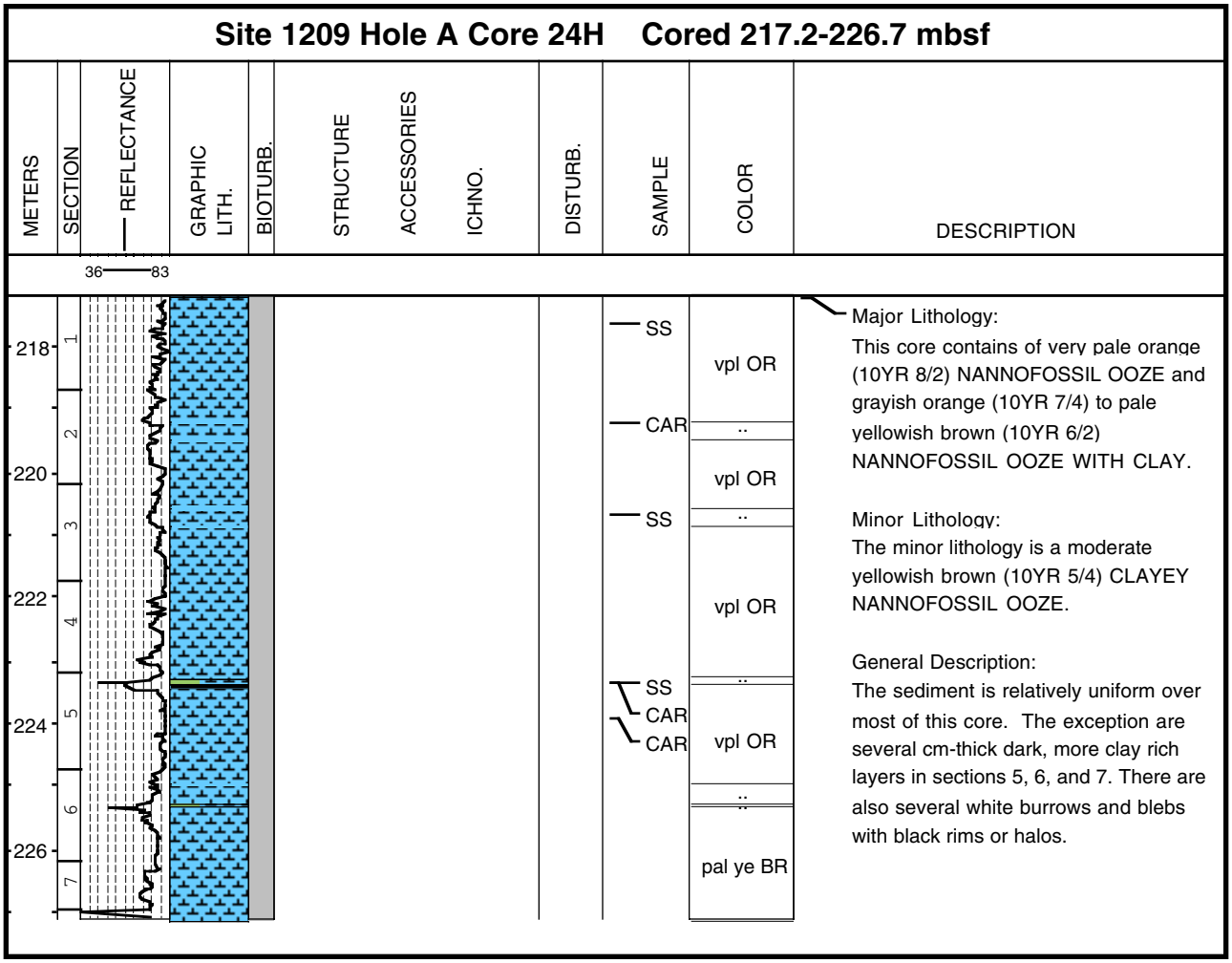
DESCRIPTION

Major Lithology:
This core contains thick layers of very pale orange (10YR 8/2) NANNOFOSSIL OOZE alternating with thinner layers of pale yellowish brown (10YR 6/2) NANNOFOSSIL OOZE WITH CLAY.

Minor Lithology:
There is a minor component of moderate yellowish brown (10YR 5/4) CLAYEY NANNOFOSSIL OOZE with traces of phillipsite which has been heavily bioturbated.

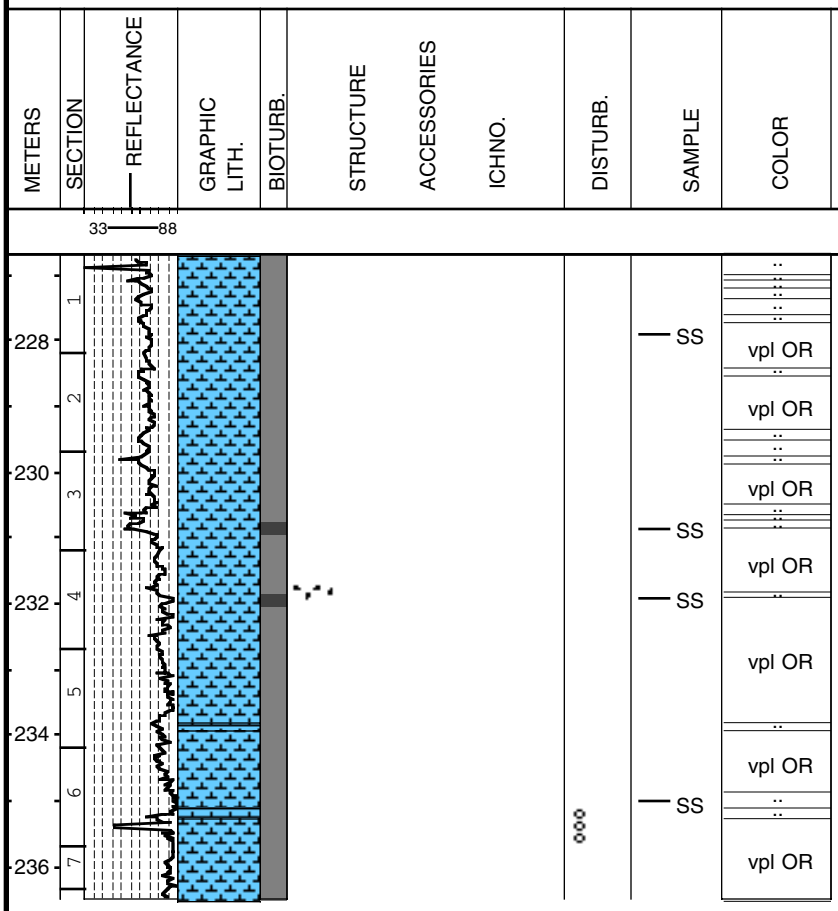
General Description:
The core has low frequency color cycles (approximately 1 per core) of very pale orange NANNOFOSSIL OOZE to a pale and moderate yellowish brown more clay rich component. There is a prominent darker, more clay rich bed in the base of section 3. Bioturbation is rare to common at lithological boundaries and color changes are somewhat gradational. There are white blebs throughout, symbolized as undefined burrows.

Core Photo


Site 1209 Hole A Core 24H Cored 217.2-226.7 mbsf
METERS
SECTION
REFLECTANCE
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
36
83
218
220
222
224
226
1
2
3
4
5
6
7
SS
CAR
SS
SS
CAR
CAR
vpl OR
vpl OR
vpl OR
vpl OR
pal ye BR
Major Lithology:
This core contains of very pale orange (10YR 8/2) NANNOFOSSIL OOZE and grayish orange (10YR 7/4) to pale yellowish brown (10YR 6/2) NANNOFOSSIL OOZE WITH CLAY.
Minor Lithology:
The minor lithology is a moderate yellowish brown (10YR 5/4) CLAYEY NANNOFOSSIL OOZE.
General Description:
The sediment is relatively uniform over most of this core. The exception are several cm-thick dark, more clay rich layers in sections 5, 6, and 7. There are also several white burrows and blebs with black rims or halos.

Core Photo

Site 1209 Hole A Core 25H Cored 226.7-236.2 mbsf

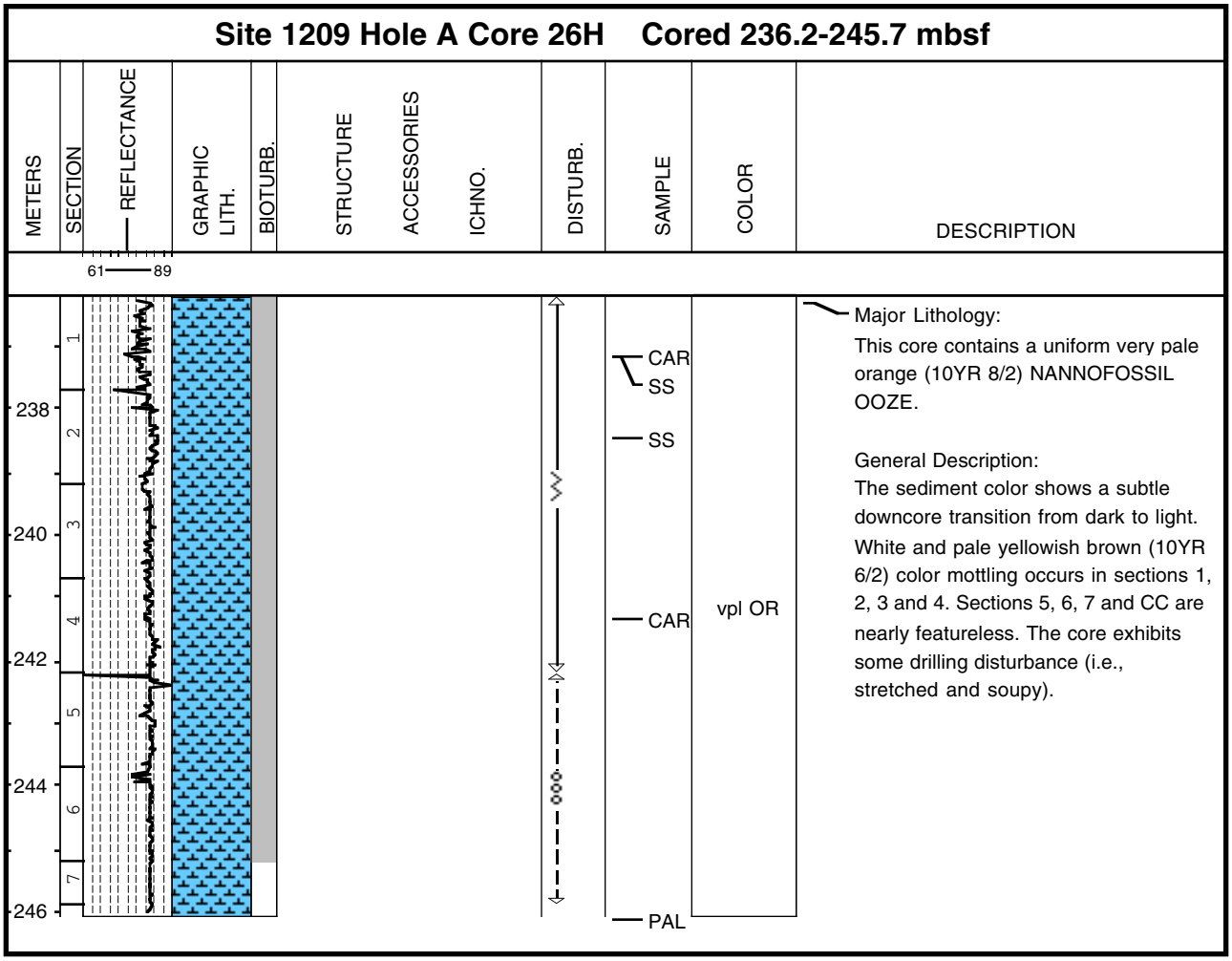


Major Lithology:
The core contains primarily very pale orange (10YR 8/2) NANNOFOSSIL OOZE.

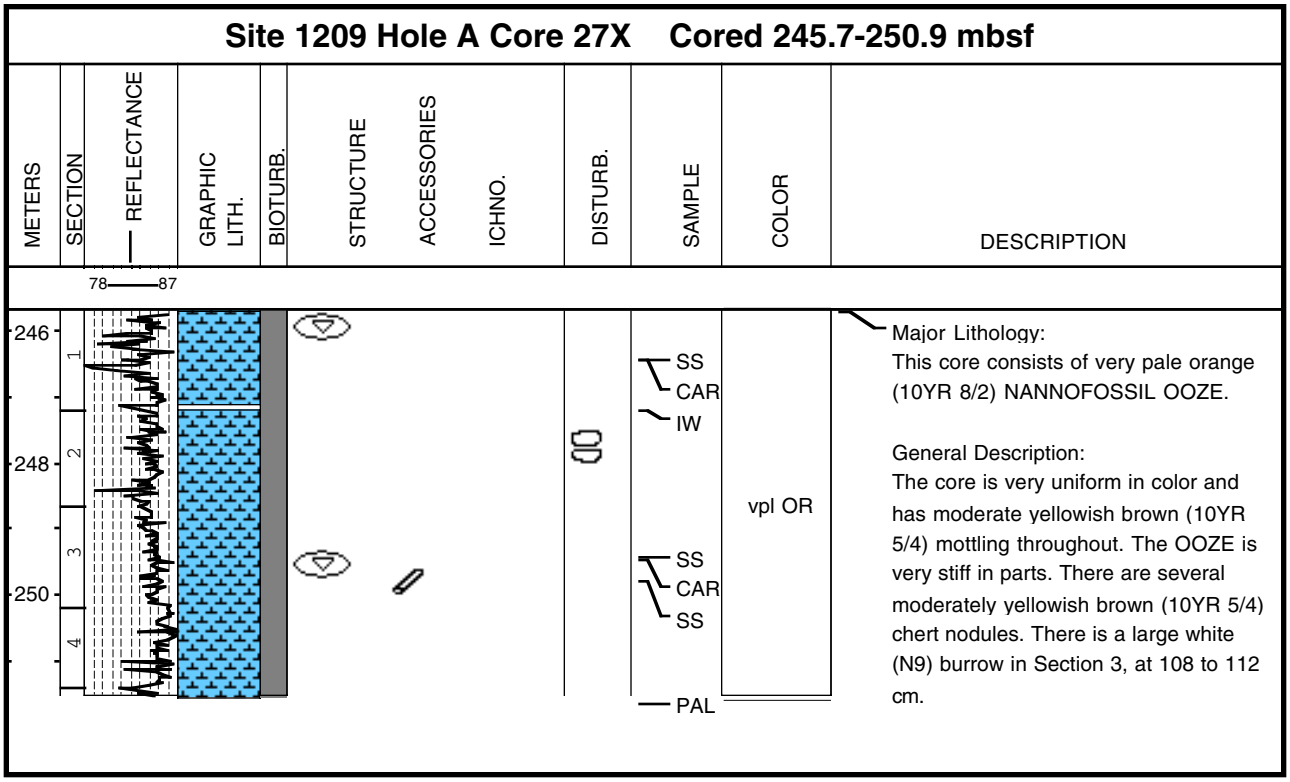
Minor Lithology:
The minor lithologies in the core are white (N9) NANNOFOSSIL OOZE WITH CLAY AND FORAMINIFERS and grayish orange (10YR 7/4) NANNOFOSSIL CHALK WITH FORAMINIFERS.

General Description:
The core consists of nannofossil ooze with chalk interbeds in Section 5, 112 to 128 cm and above the K/T boundary in Section 6, 92 to 112 cm. The sediment shows an overall downhole color transition from dark to lighter. The sediment is moderately to highly bioturbated throughout. Contacts of subtle color cycles are transitional. Dark specks in Section 6, 68 to 112 cm are pyrite-filled foraminifers.

Core Photo

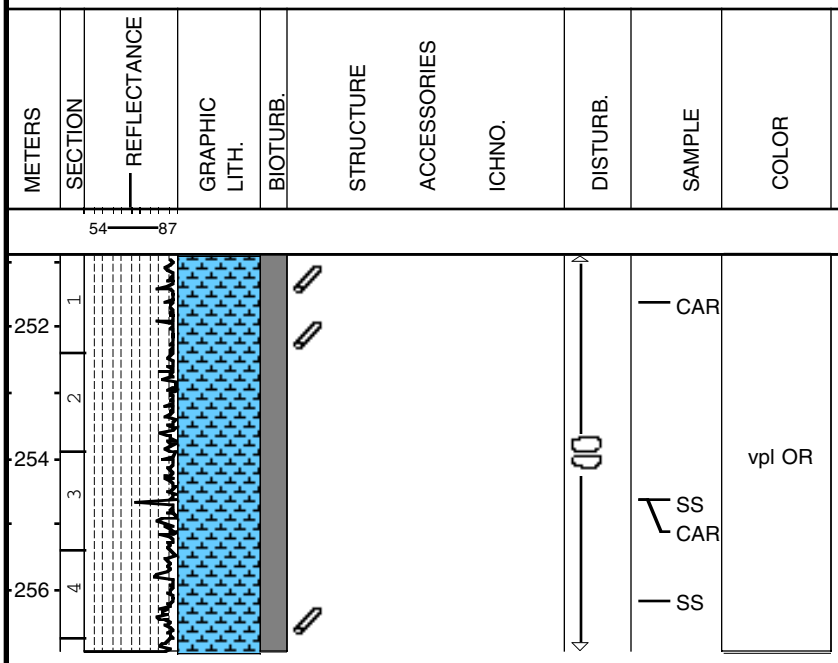

Site 1209 Hole A Core 26H Cored 236.2-245.7 mbsf
METERS
SECTION
REFLECTANCE
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
61
89
238
240
242
244
246
1
2
3
4
5
6
7
CAR
SS
SS
CAR
PAL
vpl OR
Major Lithology:
This core contains a uniform very pale orange (10YR 8/2) NANNOFOSSIL OOZE.
General Description:
The sediment color shows a subtle downcore transition from dark to light. White and pale yellowish brown (10YR 6/2) color mottling occurs in sections 1, 2, 3 and 4. Sections 5, 6, 7 and CC are nearly featureless. The core exhibits some drilling disturbance (i.e., stretched and soupy).

Core Photo


Site 1209 Hole A Core 27X Cored 245.7-250.9 mbsf
METERS
SECTION
REFLECTANCE
78
87
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
246
248
250
1
2
3
4
SS
CAR
IW
SS
CAR
SS
PAL
vpl OR
Major Lithology:
This core consists of very pale orange (10YR 8/2) NANNOFOSSIL OOZE.
General Description:
The core is very uniform in color and has moderate yellowish brown (10YR 5/4) mottling throughout. The OOZE is very stiff in parts. There are several moderately yellowish brown (10YR 5/4) chert nodules. There is a large white (N9) burrow in Section 3, at 108 to 112 cm.

Core Photo

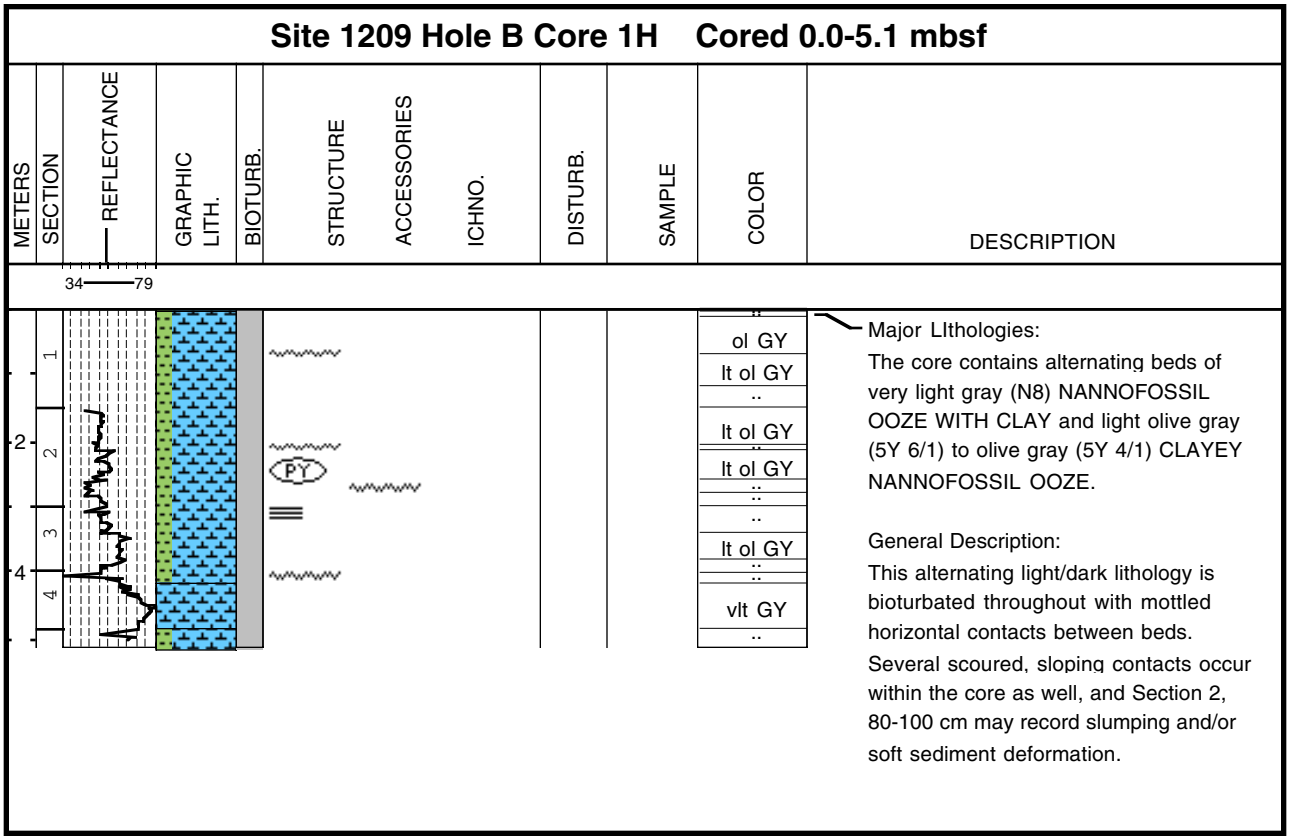
Site 1209 Hole A Core 28X Cored 250.9-259.6 mbsf



Major Lithology:
This core consists of stiff NANNOFOSSIL OOZE, which is very pale orange (10YR 9/2) with pale yellowish brown (10YR 6/2) mottles and indistinct bands, and a few mottles of white (N9) ooze.

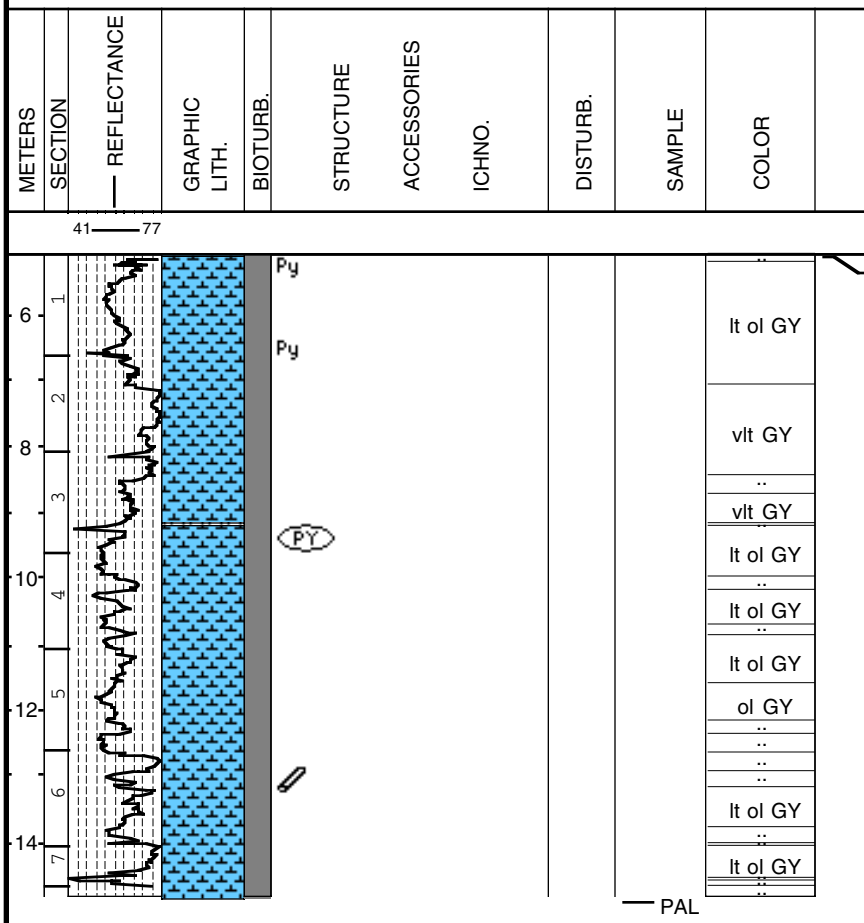
General Description:
The sediment is fairly homogeneous throughout with respect to consistency and color, although mottled in places. I is firming up nearly to chalk. There is mild core disturbance consisting of slight biscuiting due to XCB coring.

Core Photo


Site 1209 Hole B Core 1H Cored 0.0-5.1 mbsf
METERS
SECTION
REFLECTANCE
34
79
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
1
2
3
4
2
4
PY
ol GY
lt ol GY
lt ol GY
lt ol GY
lt ol GY
vlt GY
Major LIthologies:
The core contains alternating beds of very light gray (N8) NANNOFOSSIL OOZE WITH CLAY and light olive gray (5Y 6/1) to olive gray (5Y 4/1) CLAYEY NANNOFOSSIL OOZE.
General Description:
This alternating light/dark lithology is bioturbated throughout with mottled horizontal contacts between beds. Several scoured, sloping contacts occur within the core as well, and Section 2, 80-100 cm may record slumping and/or soft sediment deformation.

Core Photo

Site 1209 Hole B Core 2H Cored 5.1-14.6 mbsf



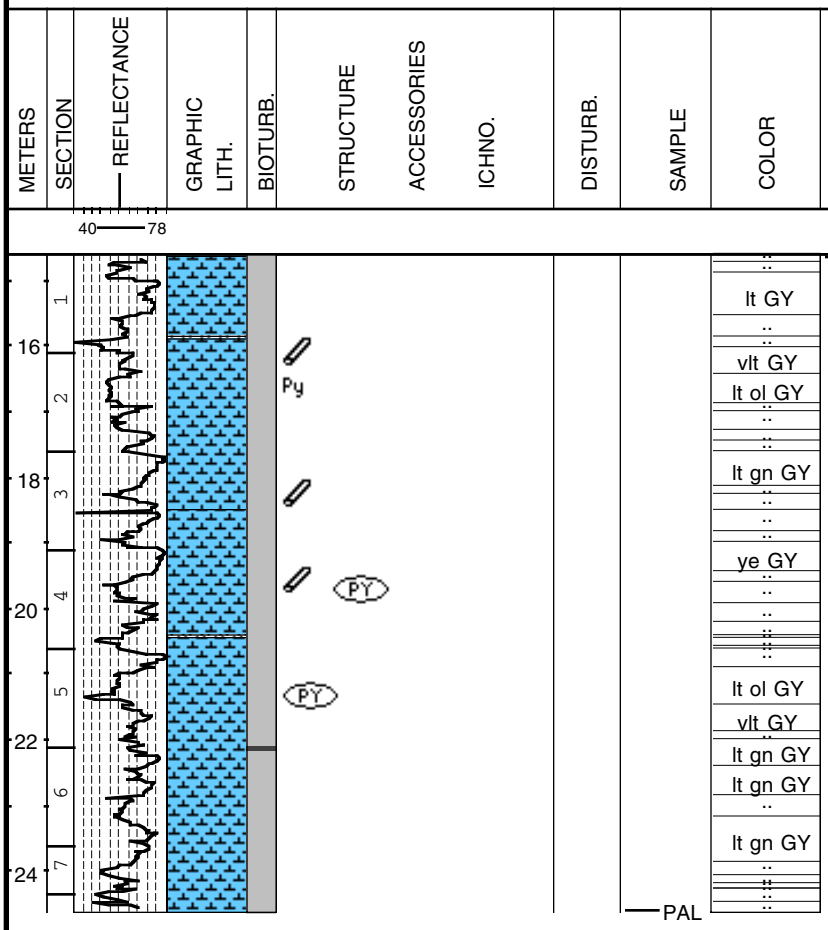
Major Lithology:
This core contains very light gray (N8), light olive gray (5Y 6/1) CLAYEY NANNOFOSSIL OOZE, to olive gray (5Y 4/1) NANNOFOSSIL OOZE WITH CLAY.

Minor Lithology:
An olive gray (5Y 4/1) VOLCANIC ASH is located in Section 3 (110-114 cm). Rare open burrows are filled with a PYRITIC NANNOFOSSIL OOZE.

General Description:
The core exhibits prominent decimeter-scale light/dark cycles. The sediment is moderately burrowed with very gradational color changes. Some color contacts are visibly burrowed. Flecks of pyrite and pyrite nodules are rare. Open burrows filled with pyritic ooze are observed in Section 6. Pale green laminae and bands occur in some intervals.
A PUMICE clast (~4 cm) is observed in Section 7.

Core Photo

Site 1209 Hole B Core 3H Cored 14.6-24.1 mbsf



DESCRIPTION

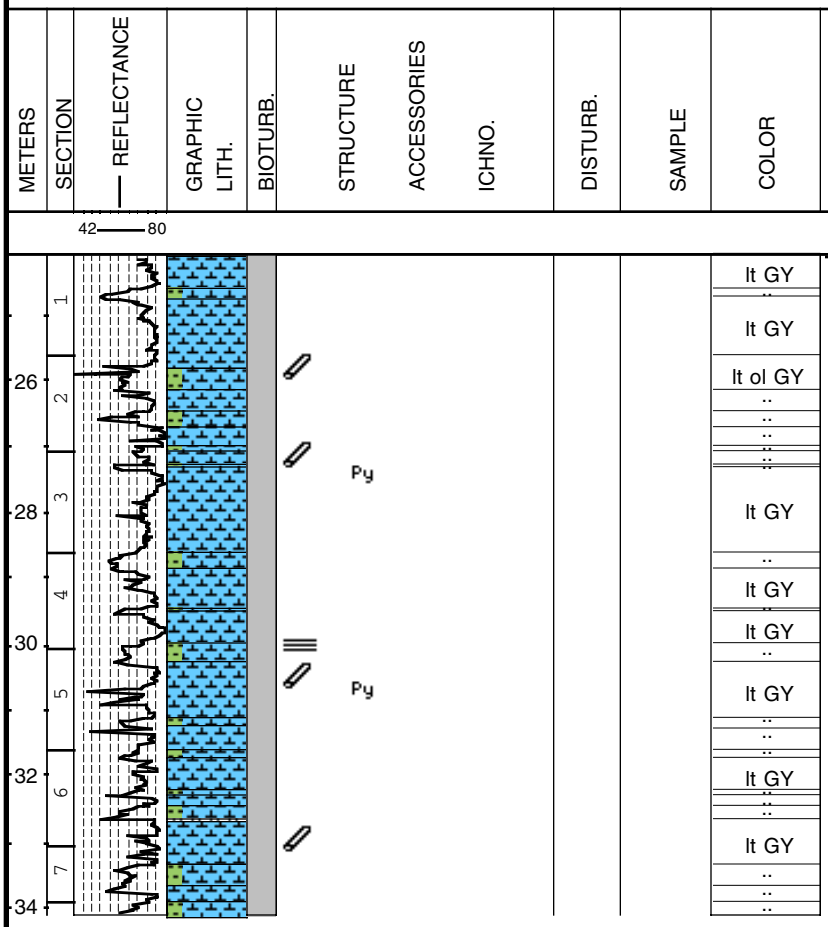
Major Lithology:
The dominant lithologies are a very light gray (N8), light gray (N7), light olive gray (5Y 6/1, 5Y 5/2) NANNOFOSSIL OOZE WITH CLAY, and light greenish gray (5GY 8/1) to yellowish gray (5Y 8/1) CLAYEY NANNOFOSSIL OOZE.

Minor Lithology:
Four VOLCANIC ASH layers are present in this Core; thickest of these (6 cm) is located in Section 4, 130-136 cm; 3 centimeter thick VOLCANIC ASH layer is located in Section 1, 128-131 centimeter; and two thin (< 5 mm) VOLCANIC ASH layers observed in Section 3 and 4.

General Description:
This core contains an alternating light-dark lithology that is moderately bioturbated with very gradational color changes between beds. Large foraminifers are observed in some burrows. Some burrows are filled with pyritic ooze. Greenish gray and grayish blue bands are present in Section 1 and Section 6.

Core Photo

Site 1209 Hole B Core 4H Cored 24.1-33.6 mbsf



DESCRIPTION

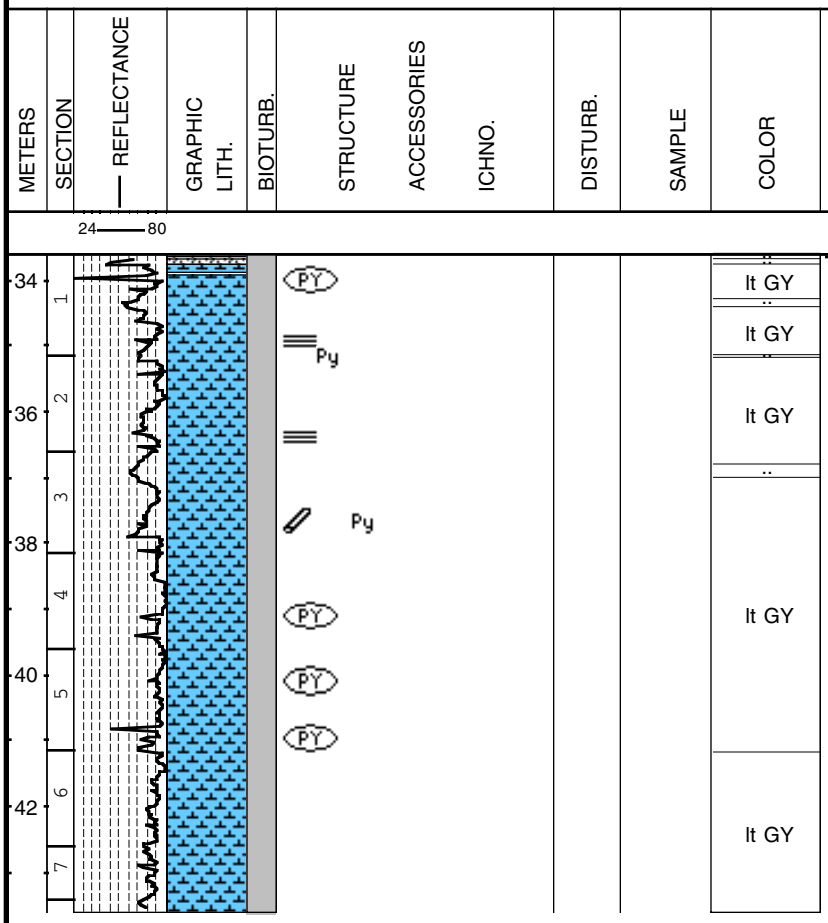
Major Lithologies:
The dominant lithologies are light gray (N7) NANNOFOSSIL OOZE WITH CLAY and light olive gray (5Y 6/1) CLAYEY NANNOFOSSIL OOZE.

Minor Lithology:
Medium dark gray (N4) VOLCANIC ASH occurs throughout the core as discrete layers (e.g., Section 6, 108 cm) or as burrow fill.

General Description:
The core consists of irregularly alternating light gray and light olive gray NANNOFOSSIL OOZE WITH CLAY and CLAYEY NANNOFOSSIL OOZE. The sediment is mottled throughout with several large burrows (>10 cm), filled with VOLCANIC ASH or pyritic ooze. Many of the contacts are scoured or deformed. Faint green and black laminae occur throughout the core.

Core Photo

Site 1209 Hole B Core 5H Cored 33.6-43.1 mbsf



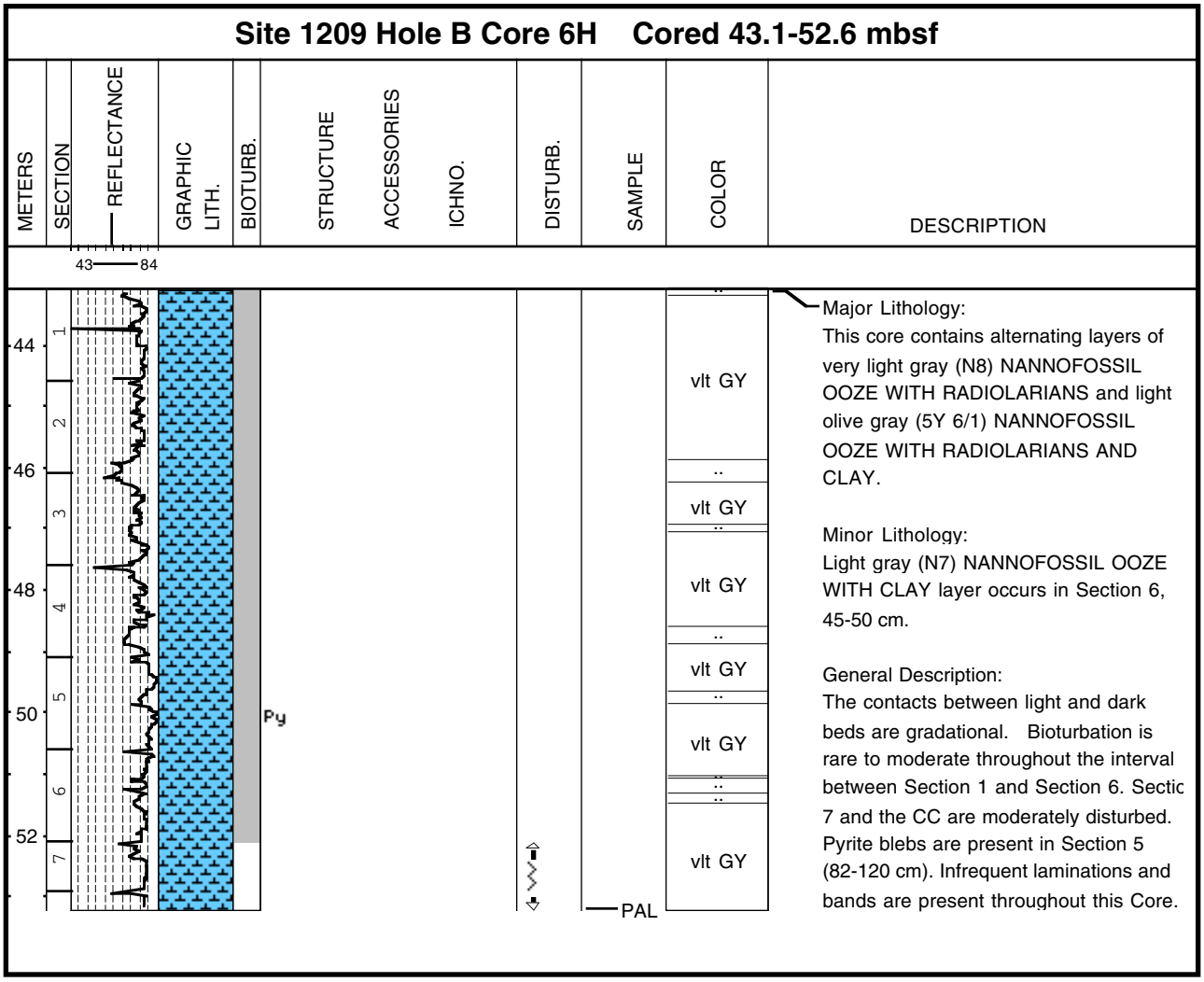
DESCRIPTION

Major Lithology:
The core consists of light gray (N7) to light olive gray (5Y 6/1) NANNOFOSSIL OOZE WITH CLAY.

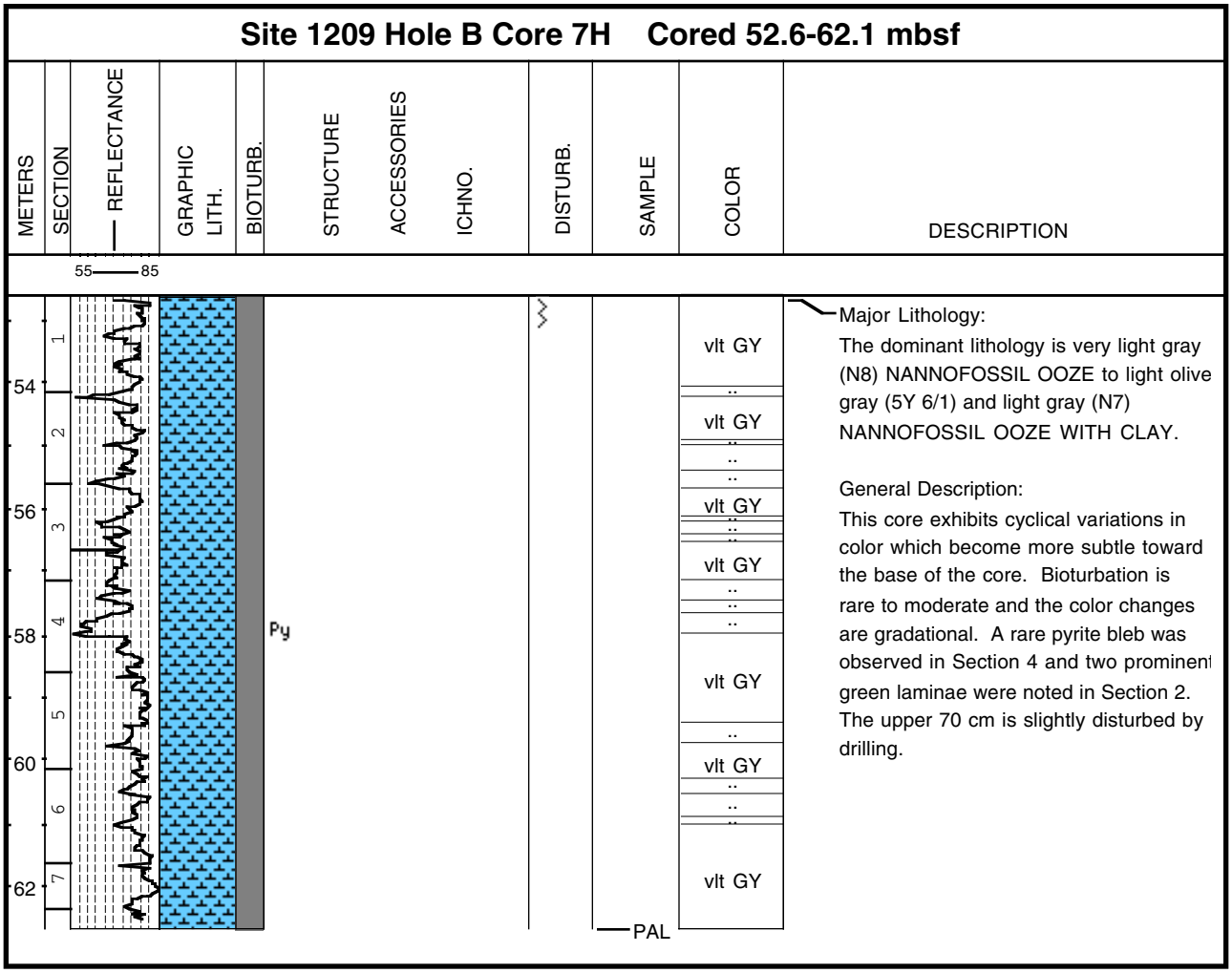
Minor Lithology:
Olive gray (5Y 4/1) VOLCANIC ASH occurs in Section 1, 7-13 cm.

General Description:
This sediment exhibits alternating light and dark beds which are mottled throughout with occasional yellowish gray (5Y 8/1) filled burrows. Rare pyrite-filled, cm-scale burrows occur in the core as well. Disseminated pyrite and pyrite concretions are found throughout, as well as faint to pronounced green laminae.

Core Photo

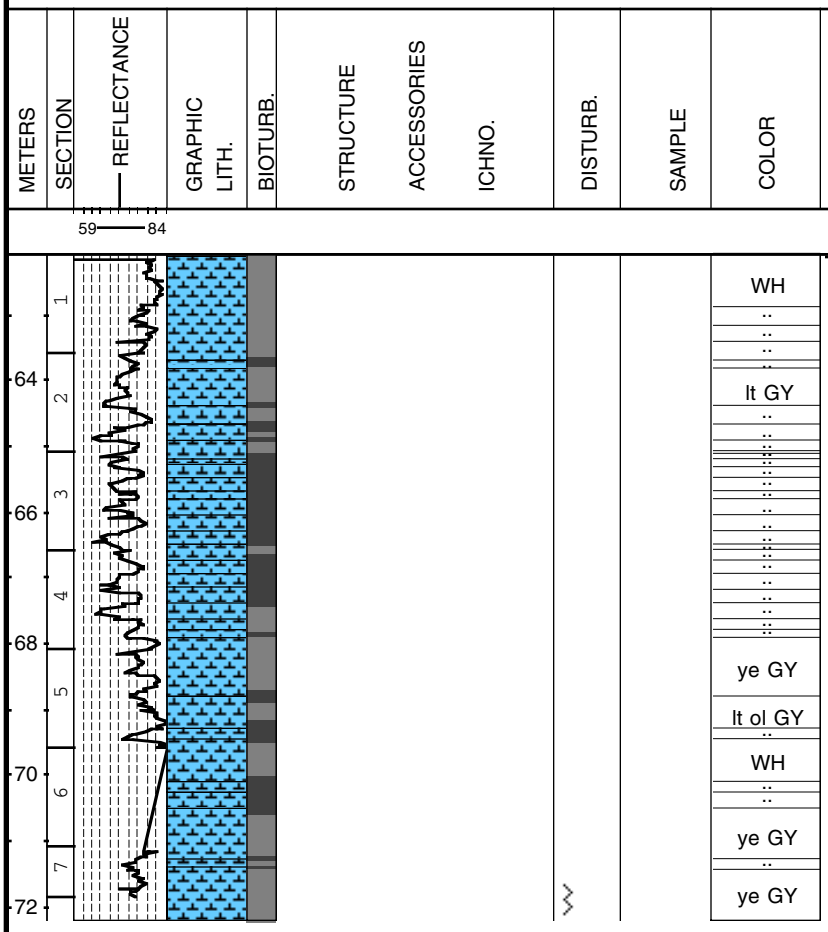

Site 1209 Hole B Core 6H Cored 43.1-52.6 mbsf
METERS
SECTION
REFLECTANCE
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
43
84
44
46
48
50
52
1
2
3
4
5
6
7
Py
PAL
vlt GY
vlt GY
vlt GY
vlt GY
vlt GY
vlt GY
Major Lithology:
This core contains alternating layers of very light gray (N8) NANNOFOSSIL OOZE WITH RADIOLARIANS and light olive gray (5Y 6/1) NANNOFOSSIL OOZE WITH RADIOLARIANS AND CLAY.
Minor Lithology:
Light gray (N7) NANNOFOSSIL OOZE WITH CLAY layer occurs in Section 6, 45-50 cm.
General Description:
The contacts between light and dark beds are gradational. Bioturbation is rare to moderate throughout the interval between Section 1 and Section 6. Sectic 7 and the CC are moderately disturbed. Pyrite blebs are present in Section 5 (82-120 cm). Infrequent laminations and bands are present throughout this Core.

Core Photo


Site 1209 Hole B Core 7H Cored 52.6-62.1 mbsf
METERS
SECTION
REFLECTANCE
55
85
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
54
56
58
60
62
1
2
3
4
5
6
7
Py
PAL
vlt GY
vlt GY
vlt GY
vlt GY
vlt GY
vlt GY
vlt GY
Major Lithology:
The dominant lithology is very light gray (N8) NANNOFOSSIL OOZE to light olive gray (5Y 6/1) and light gray (N7) NANNOFOSSIL OOZE WITH CLAY.
General Description:
This core exhibits cyclical variations in color which become more subtle toward the base of the core. Bioturbation is rare to moderate and the color changes are gradational. A rare pyrite bleb was observed in Section 4 and two prominent green laminae were noted in Section 2. The upper 70 cm is slightly disturbed by drilling.

Core Photo

Site 1209 Hole B Core 8H Cored 62.1-71.6 mbsf

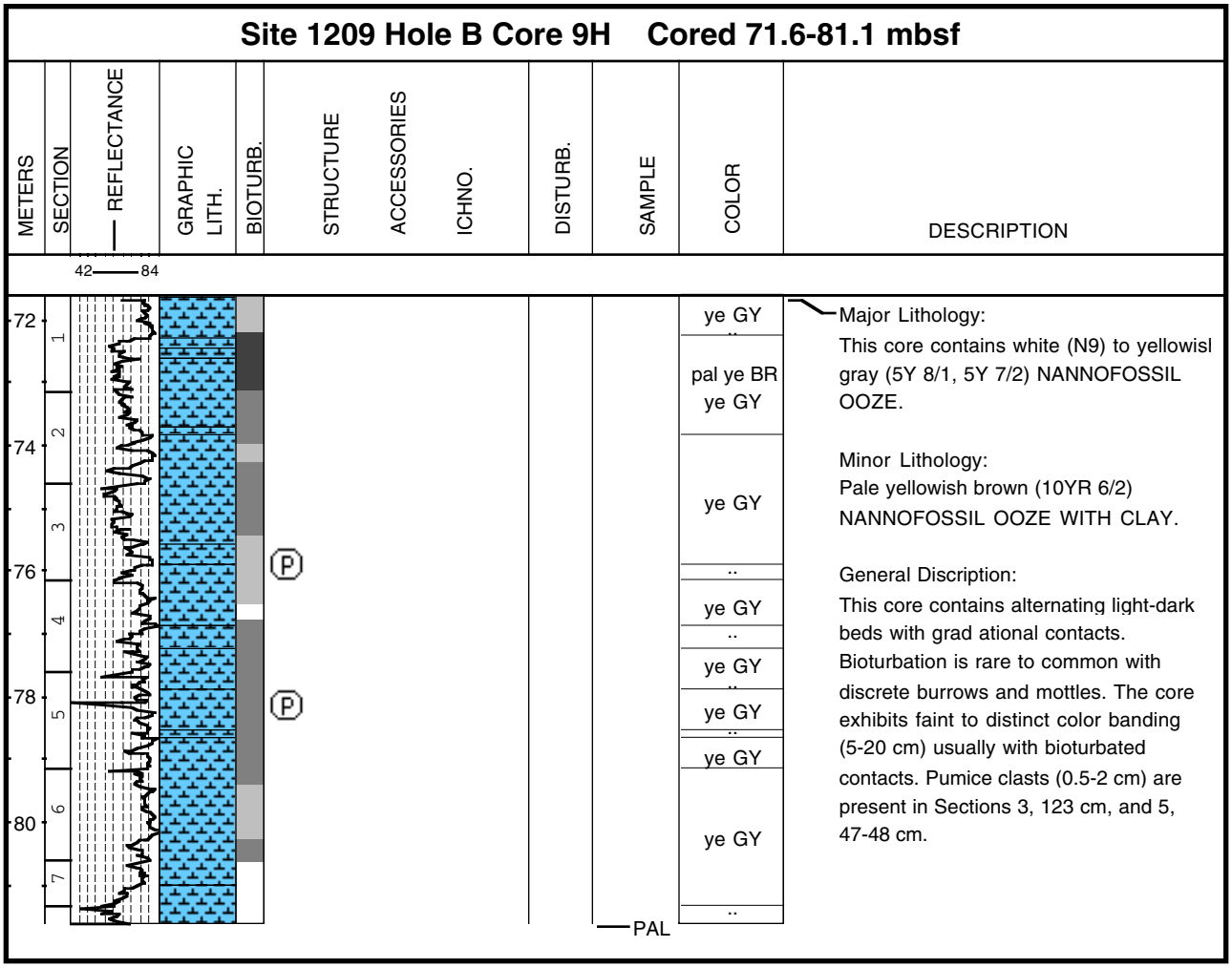


DESCRIPTION

Major Lithology:
The core consists predominantly of white (N9), very light gray (N8) and yellowish gray (5Y 8/1) NANNOFOSSIL OOZE with thin interbeds of light gray (N7) and light olive gray (5Y 6/1) NANNOFOSSIL OOZE WITH CLAY.

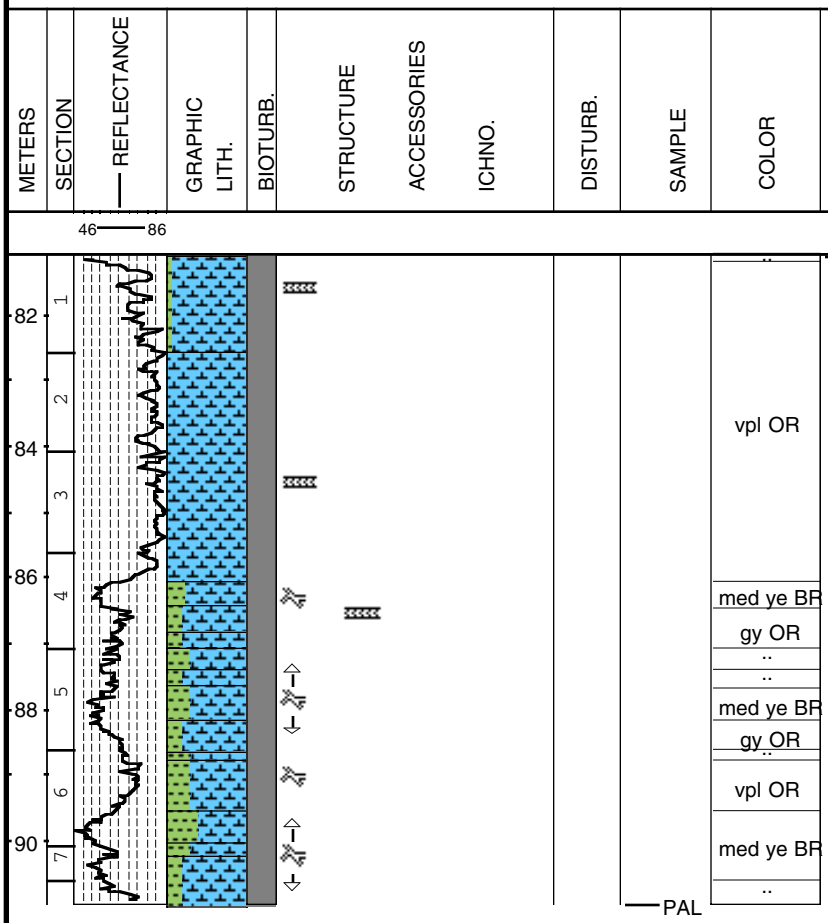
General Description:
The core is rhythmically bedded with cycles of NANNOFOSSIL OOZE and NANNOFOSSIL OOZE WITH CLAY at a frequency of 3 cycles per section. Color changes between lithologies are gentle and commonly bioturbated. There are rare pyrite blebs in the core.

Core Photo


Site 1209 Hole B Core 9H Cored 71.6-81.1 mbsf
METERS
SECTION
REFLECTANCE
42
84
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
72
74
76
78
80
1
2
3
4
5
6
7
P
P
PAL
ye GY
pal ye BR
ye GY
ye GY
ye GY
ye GY
ye GY
ye GY
ye GY
Major Lithology:
This core contains white (N9) to yellowisl gray (5Y 8/1, 5Y 7/2) NANNOFOSSIL OOZE.
Minor Lithology:
Pale yellowish brown (10YR 6/2) NANNOFOSSIL OOZE WITH CLAY.
General Discription:
This core contains alternating light-dark beds with grad ational contacts. Bioturbation is rare to common with discrete burrows and mottles. The core exhibits faint to distinct color banding (5-20 cm) usually with bioturbated contacts. Pumice clasts (0.5-2 cm) are present in Sections 3, 123 cm, and 5, 47-48 cm.

Core Photo

Site 1209 Hole B Core 10H Cored 81.1-90.6 mbsf



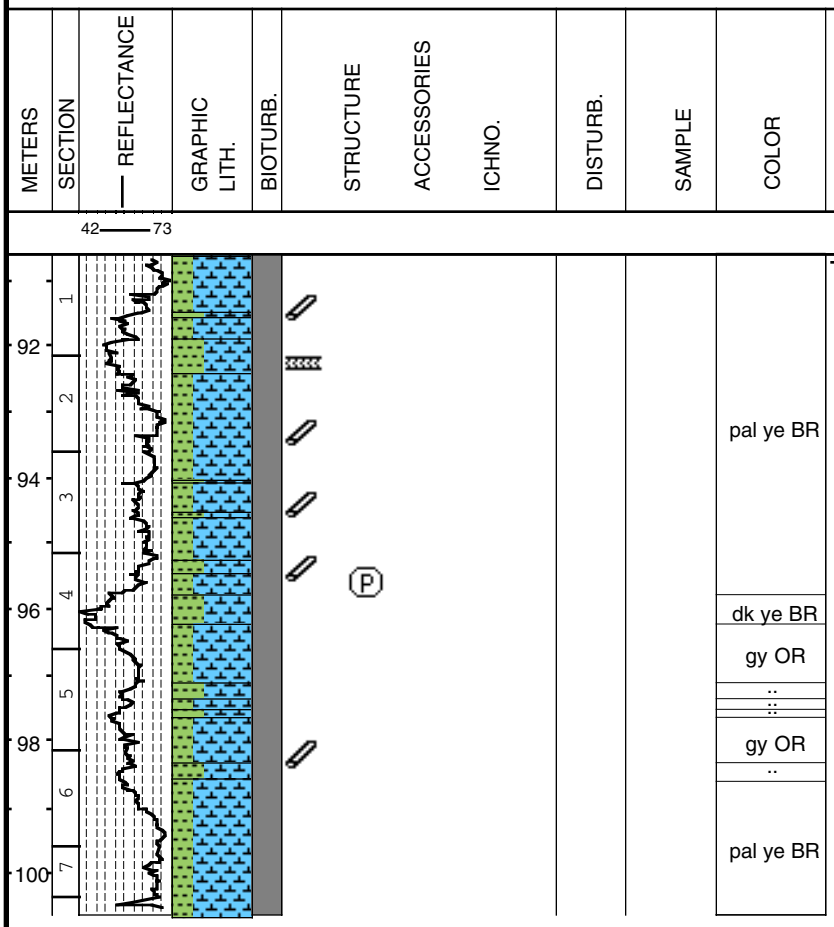
DESCRIPTION

Major lithology:
The core consists of alternating light/dark beds of NANNOFOSSIL OOZE, NANNOFOSSIL OOZE WITH CLAY, and CLAYEY NANNOFOSSIL OOZE.

General comments:
This core shows an abrupt downhole transition from light to darker hues. Cycles of NANNOFOSSIL OOZE are very pale in Sections 1, 2 and 4 in various shades of pale greenish yellow (10Y 8/2). The cycles become more pronounced in Sections 4 through CC where they consist of alternating grayish orange (10 YR 7/4) NANNOFOSSIL OOZE WITH CLAY and moderate yellowish brown (10YR 5/4) CLAYEY NANNOFOSSIL OOZE (10YR 5/4). Lithologic boundaries are gradational to bioturbated. Distinct trace fossils change from Zoophycos (Sections 1, 3 and 4) to zoned circular burrows starting at 69 cm in Section 4. These burrows are lined with very pale orange (10 YR 8/2) NANNOFOSSIL OOZE.

Core Photo

Site 1209 Hole B Core 11H Cored 90.6-100.1 mbsf



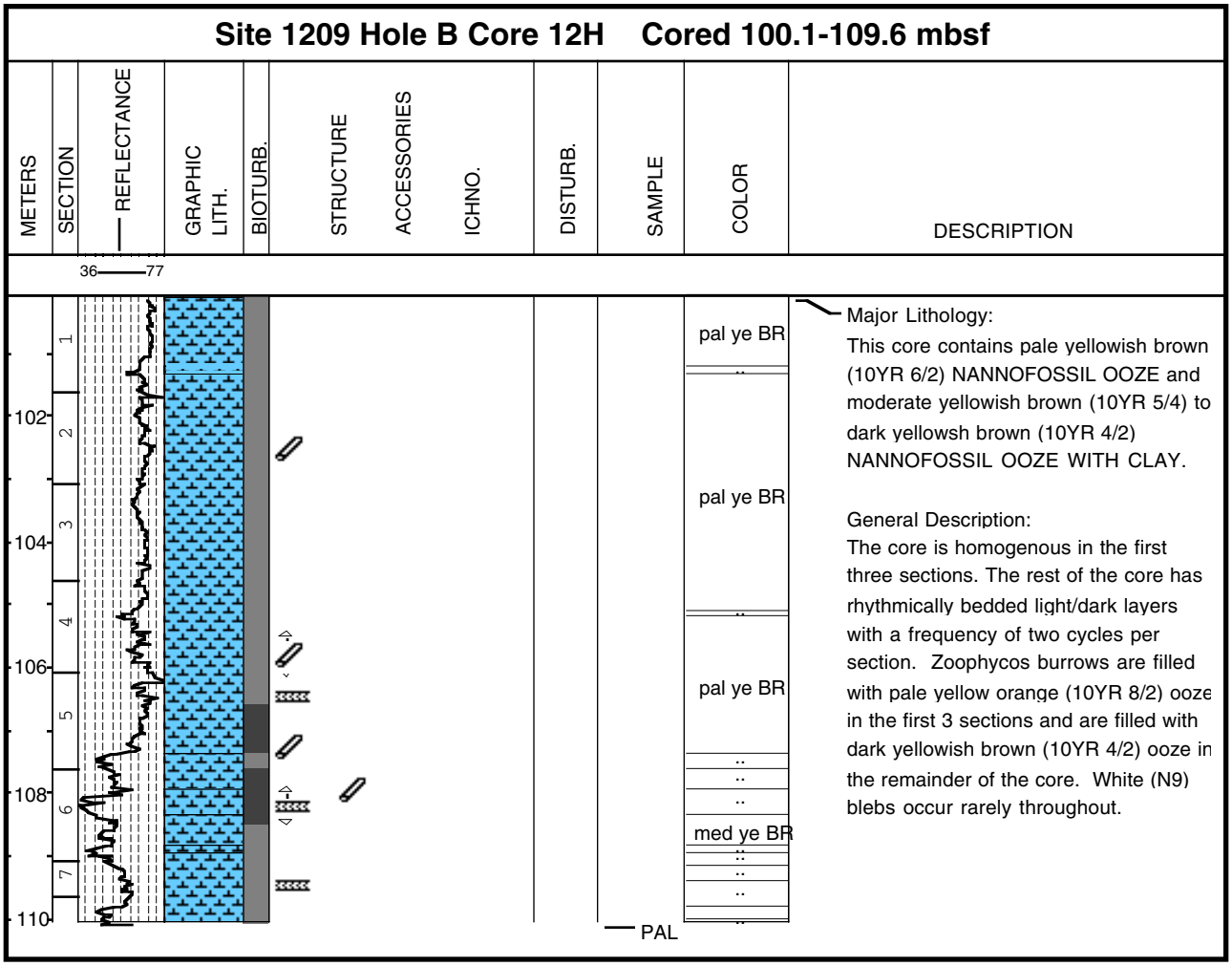
DESCRIPTION

Major Lithology:
This core contains alternating beds of stiff, dark yellowish brown to moderate yellowish brown CLAYEY NANNOFOSSIL OOZE and pale yellowish brown NANNOFOSSIL OOZE with CLAY.

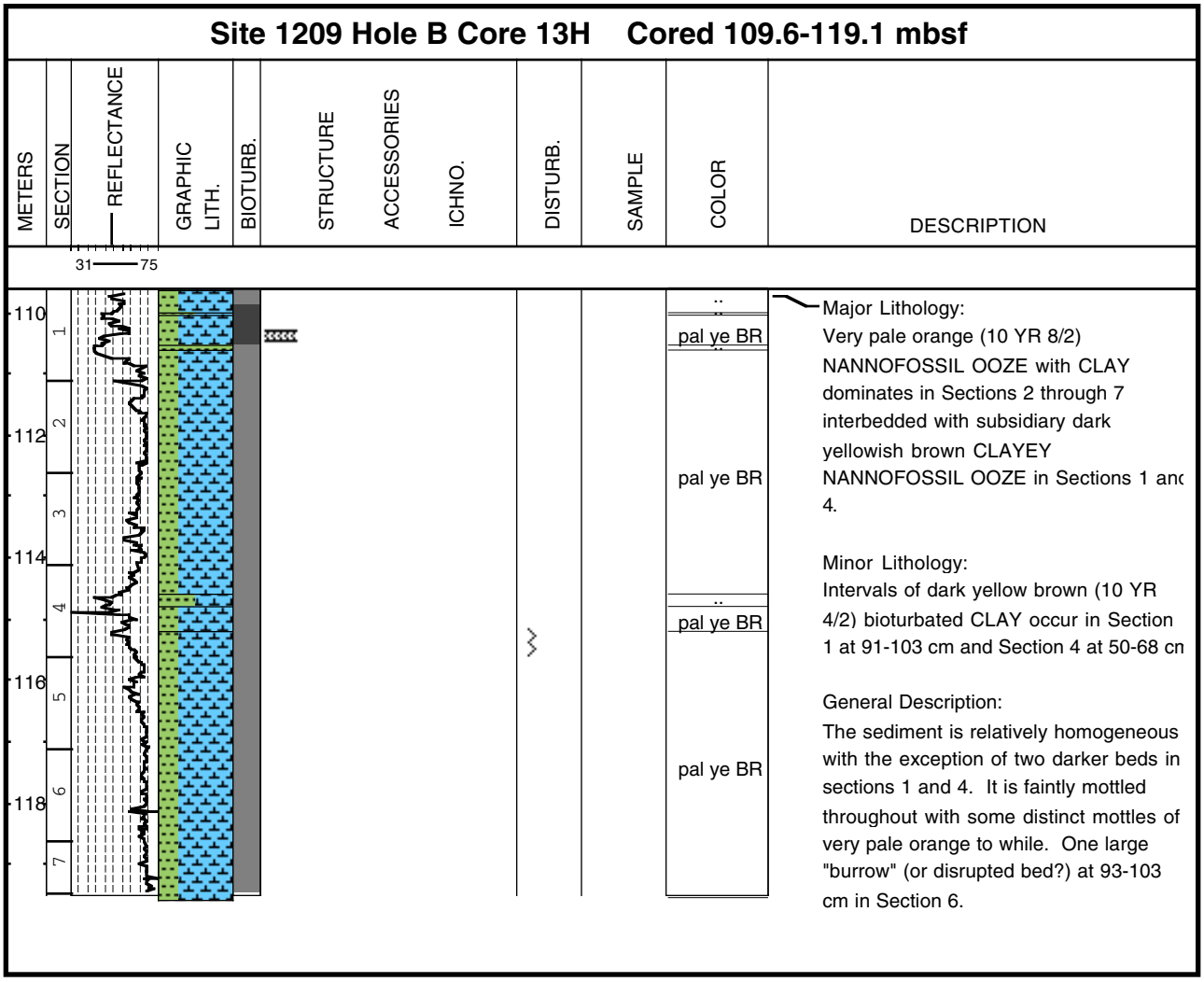
Minor Lithology:
Burrow linings and mottles of (10YR 8/2) very pale orange NANNOFOSSIL OOZE. Burrow diameters range to 3 cm and resemble Thallasinoides, but no branching or vertical traces were observed. There are several intervals of Zoophycos-like traces, but no backfill structures are apparent.

General Description:
Contacts are very gradational, with color transitions taking place over 10 to 20 cm, and are moderately burrowed. In Sections 1-3, color cycles are subtle variations of dark and light in one hue. A dark clayey interval occurs in section 4.

Core Photo

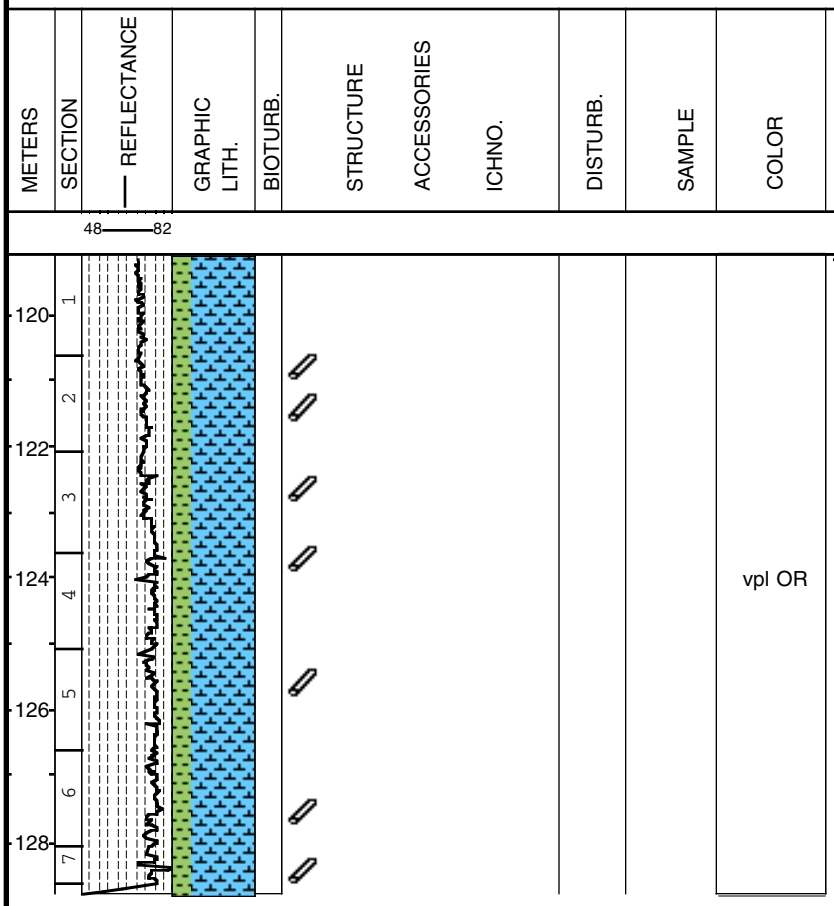

Site 1209 Hole B Core 12H Cored 100.1-109.6 mbsf
METERS
SECTION
REFLECTANCE
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
36
77
102
104
106
108
110
1
2
3
4
5
6
7
pal ye BR
pal ye BR
pal ye BR
med ye BR
PAL
Major Lithology:
This core contains pale yellowish brown (10YR 6/2) NANNOFOSSIL OOZE and moderate yellowish brown (10YR 5/4) to dark yellowsh brown (10YR 4/2) NANNOFOSSIL OOZE WITH CLAY.
General Description:
The core is homogenous in the first three sections. The rest of the core has rhythmically bedded light/dark layers with a frequency of two cycles per section. Zoophycos burrows are filled with pale yellow orange (10YR 8/2) ooze in the first 3 sections and are filled with dark yellowish brown (10YR 4/2) ooze in the remainder of the core. White (N9) blebs occur rarely throughout.

Core Photo


Site 1209 Hole B Core 13H Cored 109.6-119.1 mbsf
METERS
SECTION
REFLECTANCE
31
75
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
110
112
114
116
118
1
2
3
4
5
6
7
pal ye BR
pal ye BR
pal ye BR
pal ye BR
Major Lithology:
Very pale orange (10 YR 8/2) NANNOFOSSIL OOZE with CLAY dominates in Sections 2 through 7 interbedded with subsidiary dark yellowish brown CLAYEY NANNOFOSSIL OOZE in Sections 1 anc 4.
Minor Lithology:
Intervals of dark yellow brown (10 YR 4/2) bioturbated CLAY occur in Section 1 at 91-103 cm and Section 4 at 50-68 cn
General Description:
The sediment is relatively homogeneous with the exception of two darker beds in sections 1 and 4. It is faintly mottled throughout with some distinct mottles of very pale orange to while. One large "burrow" (or disrupted bed?) at 93-103 cm in Section 6.

Core Photo

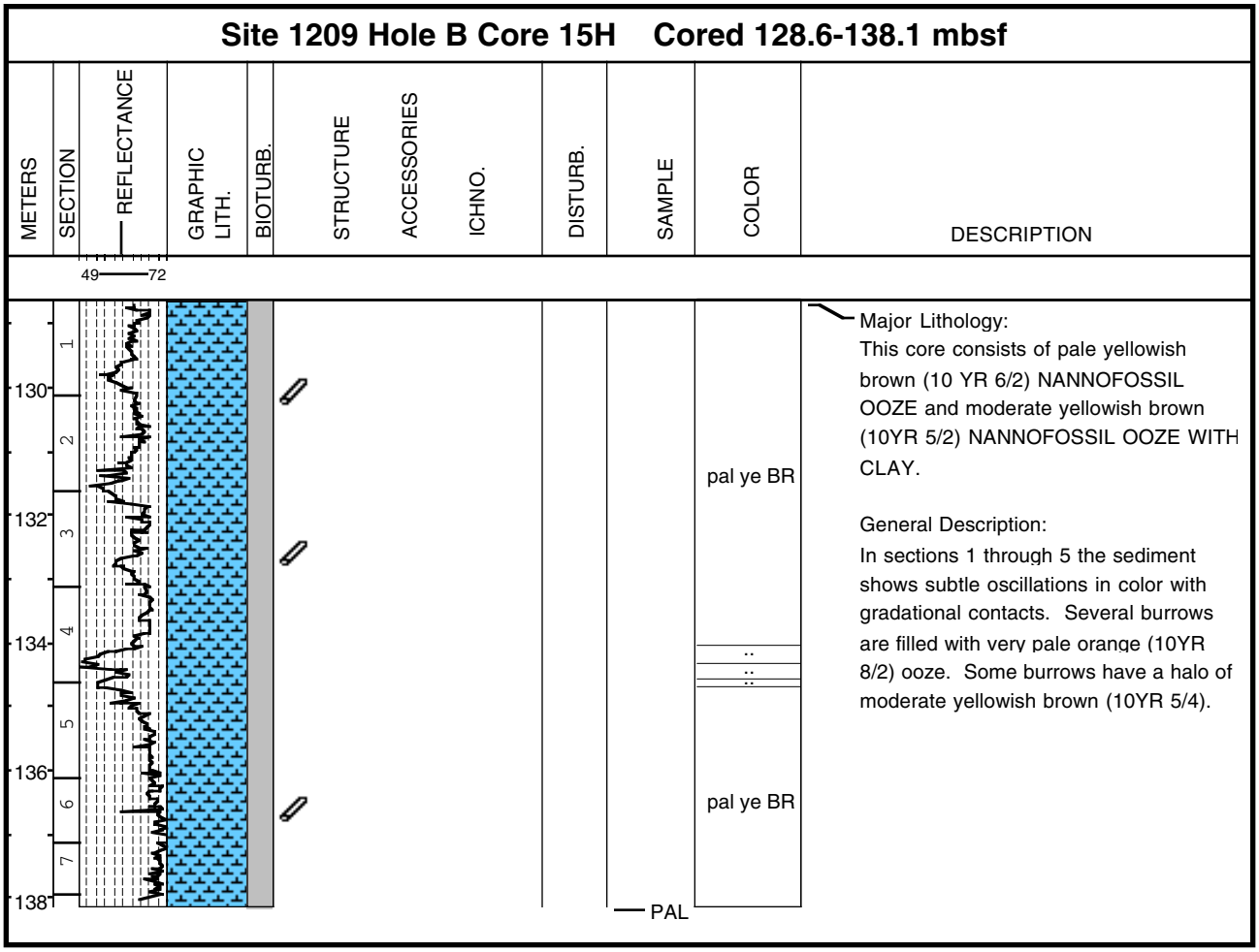
Site 1209 Hole B Core 14H Cored 119.1-128.6 mbsf



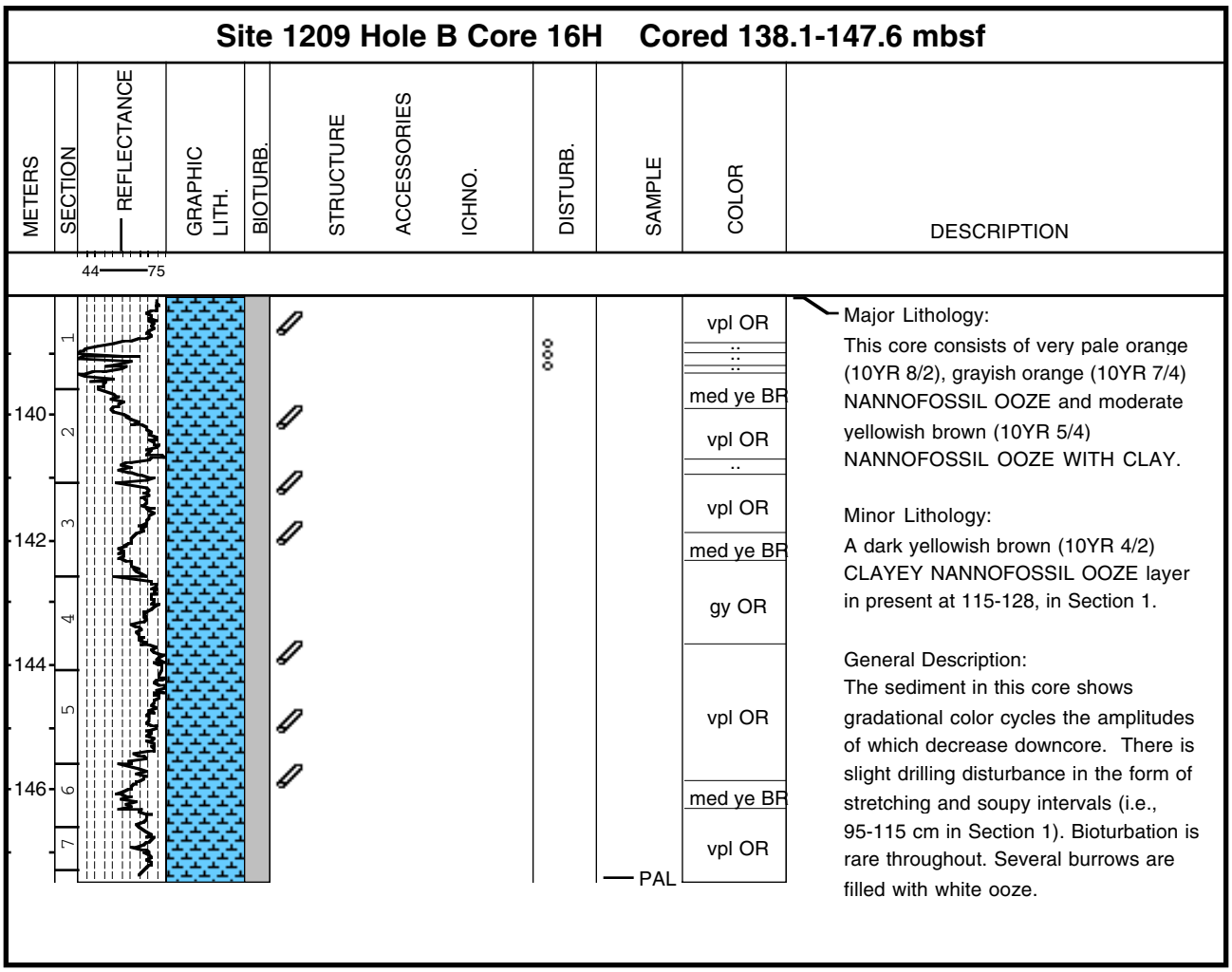
Major Lithology:
This contains a very pale orange (10YR 8/2) NANNOFOSSIL OOZE WITH CLAY.

General Description:
The core shows a subtle downhole trend toward lighter hues. The sediment is homogeneous with rare burrows filled with grayish pink (5R 8/2) to white (N9) ooze.

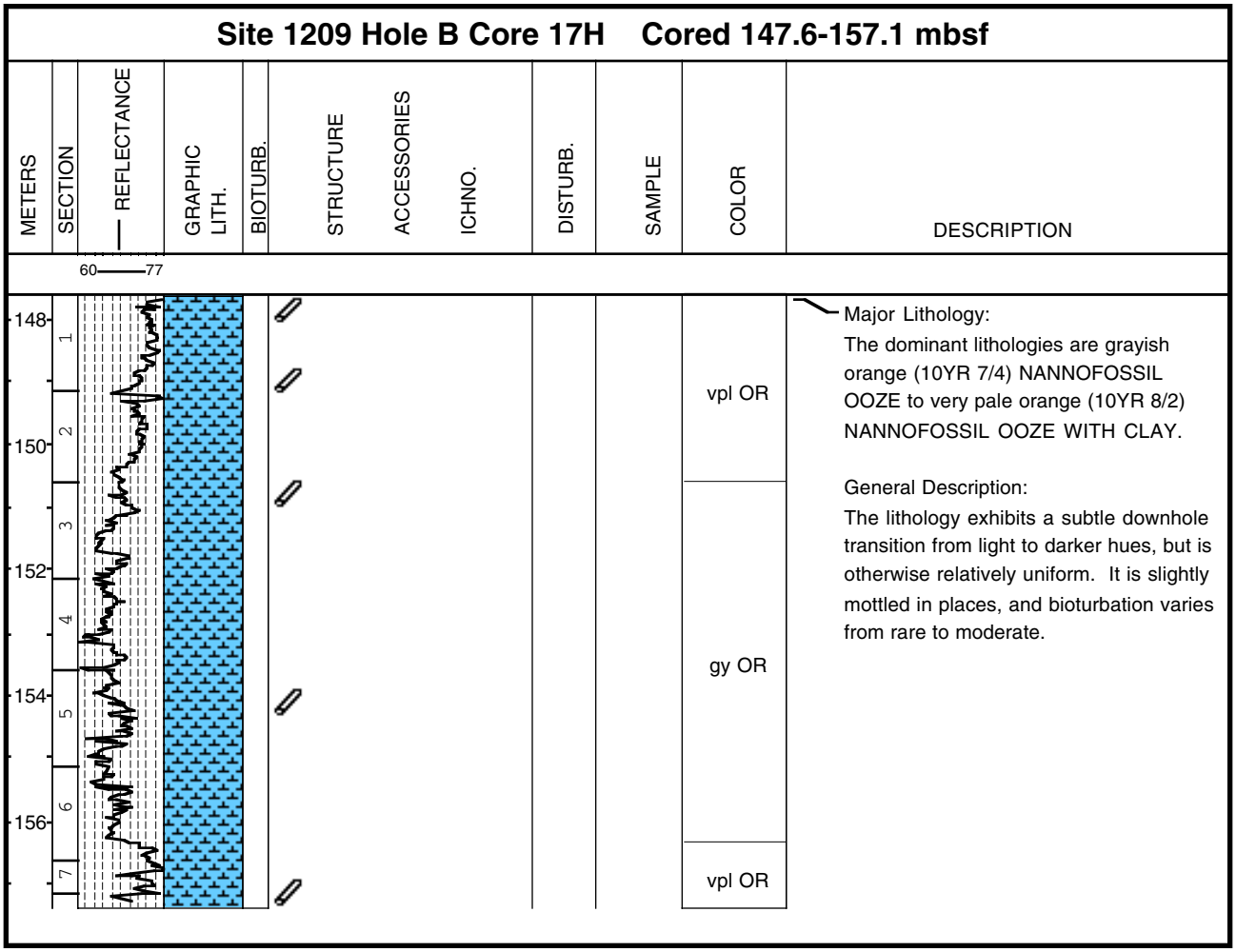
Core Photo


Site 1209 Hole B Core 15H Cored 128.6-138.1 mbsf
METERS
SECTION
REFLECTANCE
49
72
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
130
132
134
136
138
1
2
3
4
5
6
7
pal ye BR
pal ye BR
PAL
Major Lithology:
This core consists of pale yellowish brown (10 YR 6/2) NANNOFOSSIL OOZE and moderate yellowish brown (10YR 5/2) NANNOFOSSIL OOZE WITH CLAY.
General Description:
In sections 1 through 5 the sediment shows subtle oscillations in color with gradational contacts. Several burrows are filled with very pale orange (10YR 8/2) ooze. Some burrows have a halo of moderate yellowish brown (10YR 5/4).

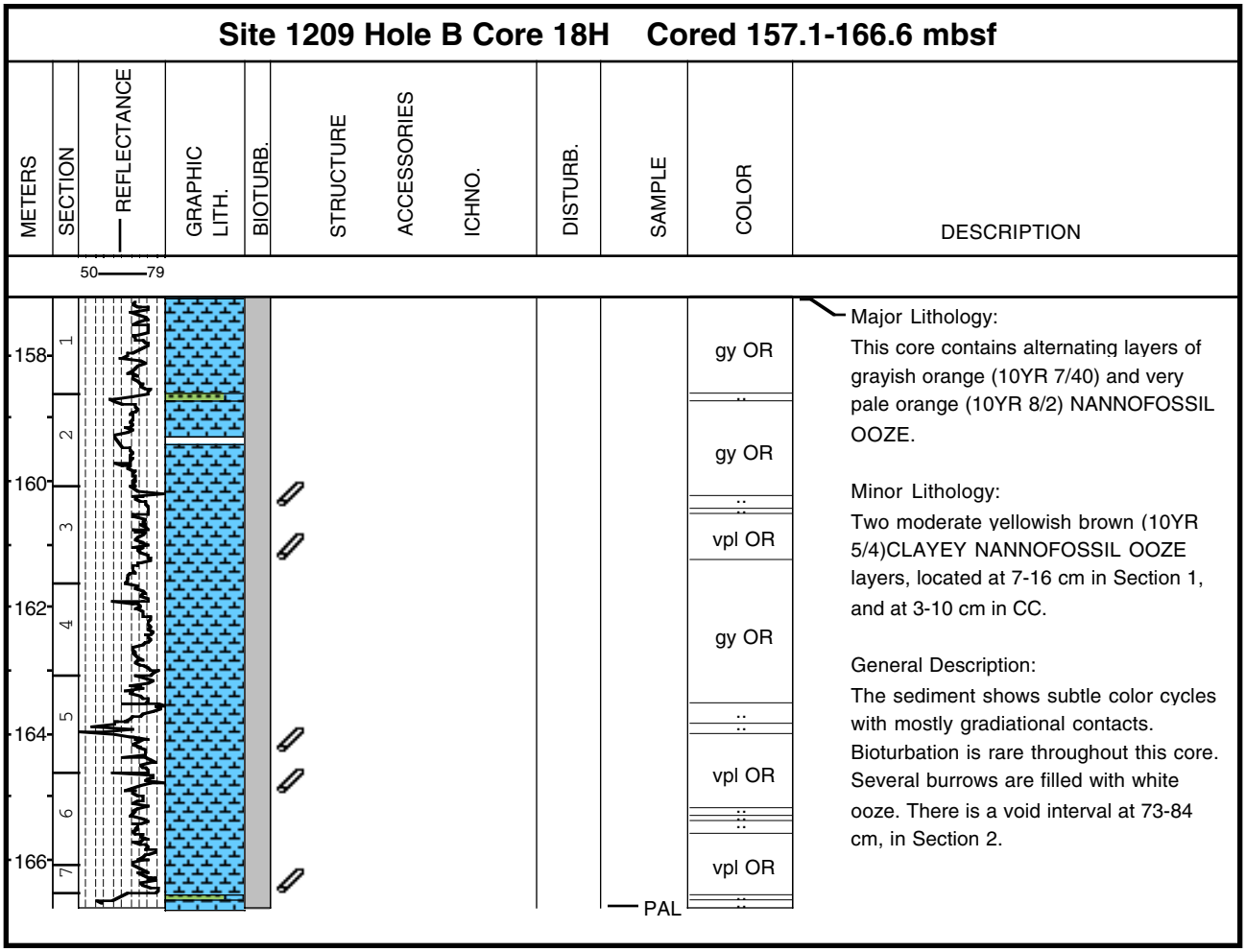
Core Photo


Site 1209 Hole B Core 16H Cored 138.1-147.6 mbsf
METERS
SECTION
REFLECTANCE
44
75
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
140
142
144
146
1
2
3
4
5
6
7
vpl OR
med ye BR
vpl OR
vpl OR
med ye BR
gy OR
vpl OR
med ye BR
vpl OR
PAL
Major Lithology:
This core consists of very pale orange (10YR 8/2), grayish orange (10YR 7/4) NANNOFOSSIL OOZE and moderate yellowish brown (10YR 5/4) NANNOFOSSIL OOZE WITH CLAY.
Minor Lithology:
A dark yellowish brown (10YR 4/2) CLAYEY NANNOFOSSIL OOZE layer in present at 115-128, in Section 1.
General Description:
The sediment in this core shows gradational color cycles the amplitudes of which decrease downcore. There is slight drilling disturbance in the form of stretching and soupy intervals (i.e., 95-115 cm in Section 1). Bioturbation is rare throughout. Several burrows are filled with white ooze.

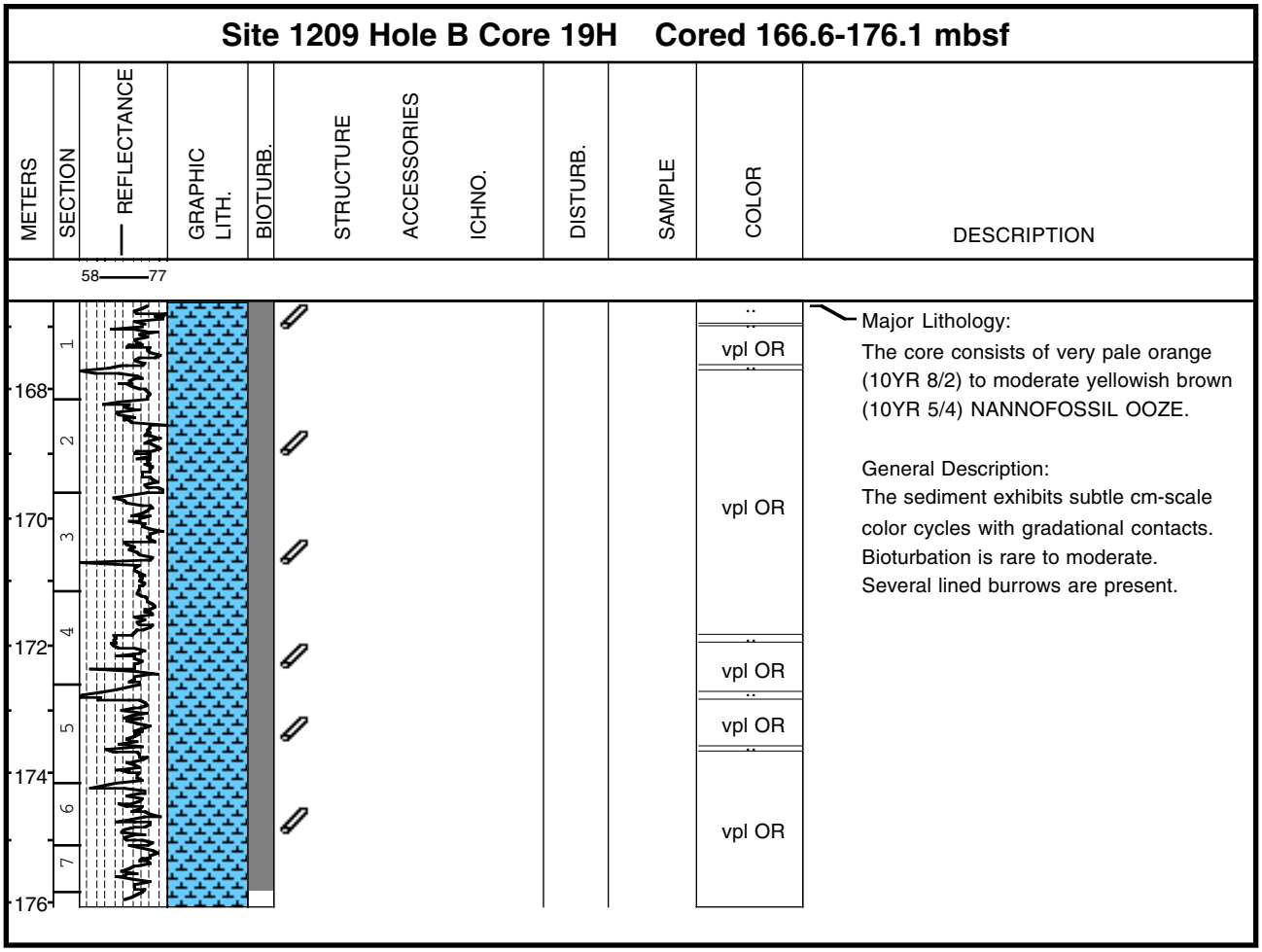
Core Photo


Site 1209 Hole B Core 17H Cored 147.6-157.1 mbsf
METERS
SECTION
REFLECTANCE
60
77
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
148
150
152
154
156
1
2
3
4
5
6
7
vpl OR
gy OR
vpl OR
Major Lithology:
The dominant lithologies are grayish orange (10YR 7/4) NANNOFOSSIL OOZE to very pale orange (10YR 8/2) NANNOFOSSIL OOZE WITH CLAY.
General Description:
The lithology exhibits a subtle downhole transition from light to darker hues, but is otherwise relatively uniform. It is slightly mottled in places, and bioturbation varies from rare to moderate.

Core Photo

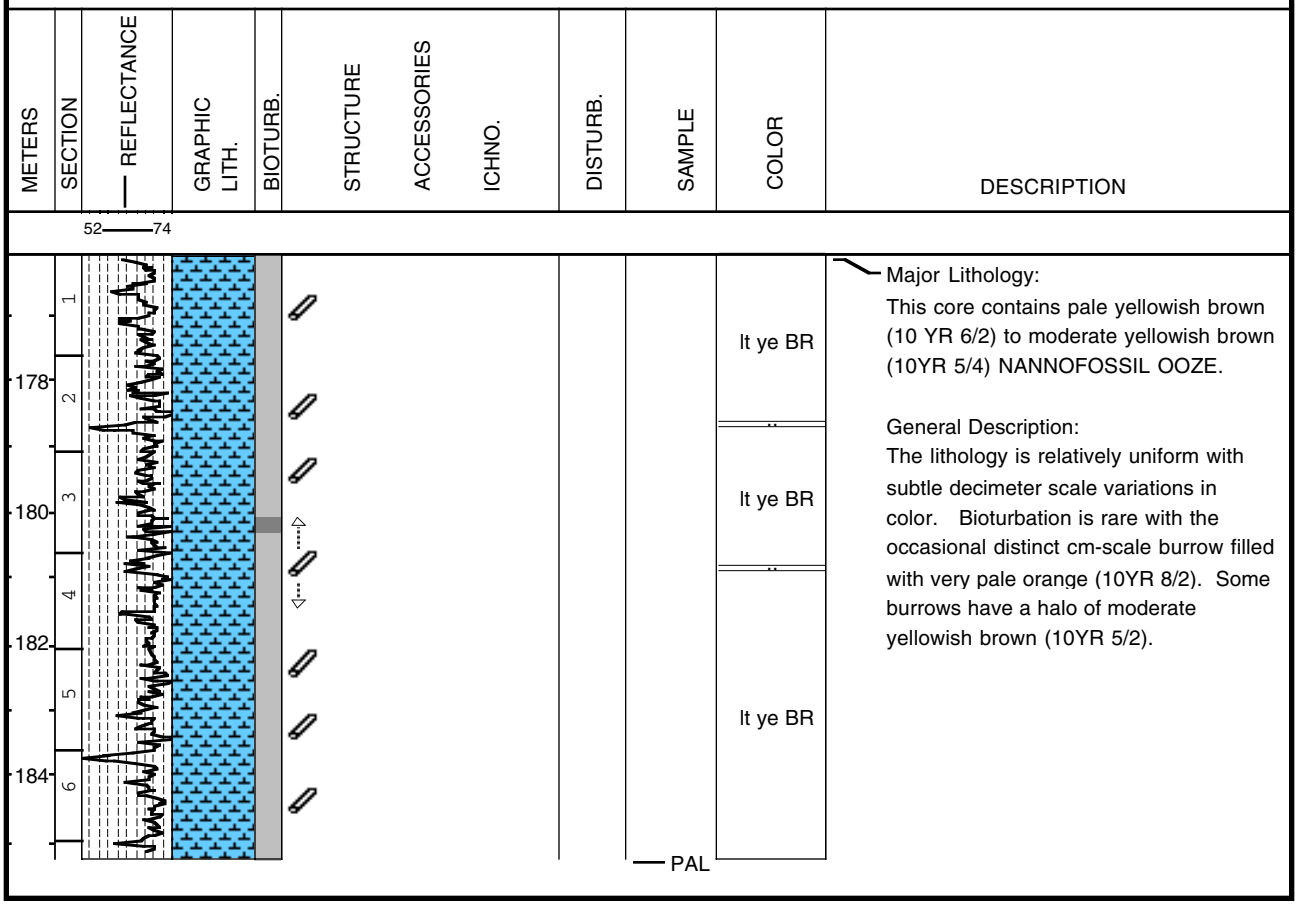

Site 1209 Hole B Core 18H Cored 157.1-166.6 mbsf
METERS
SECTION
REFLECTANCE
50
79
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
158
160
162
164
166
1
2
3
4
5
6
7
gy OR
gy OR
vpl OR
gy OR
vpl OR
vpl OR
PAL
Major Lithology:
This core contains alternating layers of grayish orange (10YR 7/40) and very pale orange (10YR 8/2) NANNOFOSSIL OOZE.
Minor Lithology:
Two moderate yellowish brown (10YR 5/4)CLAYEY NANNOFOSSIL OOZE layers, located at 7-16 cm in Section 1, and at 3-10 cm in CC.
General Description:
The sediment shows subtle color cycles with mostly gradiational contacts. Bioturbation is rare throughout this core. Several burrows are filled with white ooze. There is a void interval at 73-84 cm, in Section 2.

Core Photo


Site 1209 Hole B Core 19H Cored 166.6-176.1 mbsf
METERS
SECTION
REFLECTANCE
58
77
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
168
170
172
174
176
1
2
3
4
5
6
7
vpl OR
vpl OR
vpl OR
vpl OR
vpl OR
Major Lithology:
The core consists of very pale orange (10YR 8/2) to moderate yellowish brown (10YR 5/4) NANNOFOSSIL OOZE.
General Description:
The sediment exhibits subtle cm-scale color cycles with gradational contacts. Bioturbation is rare to moderate. Several lined burrows are present.

Core Photo

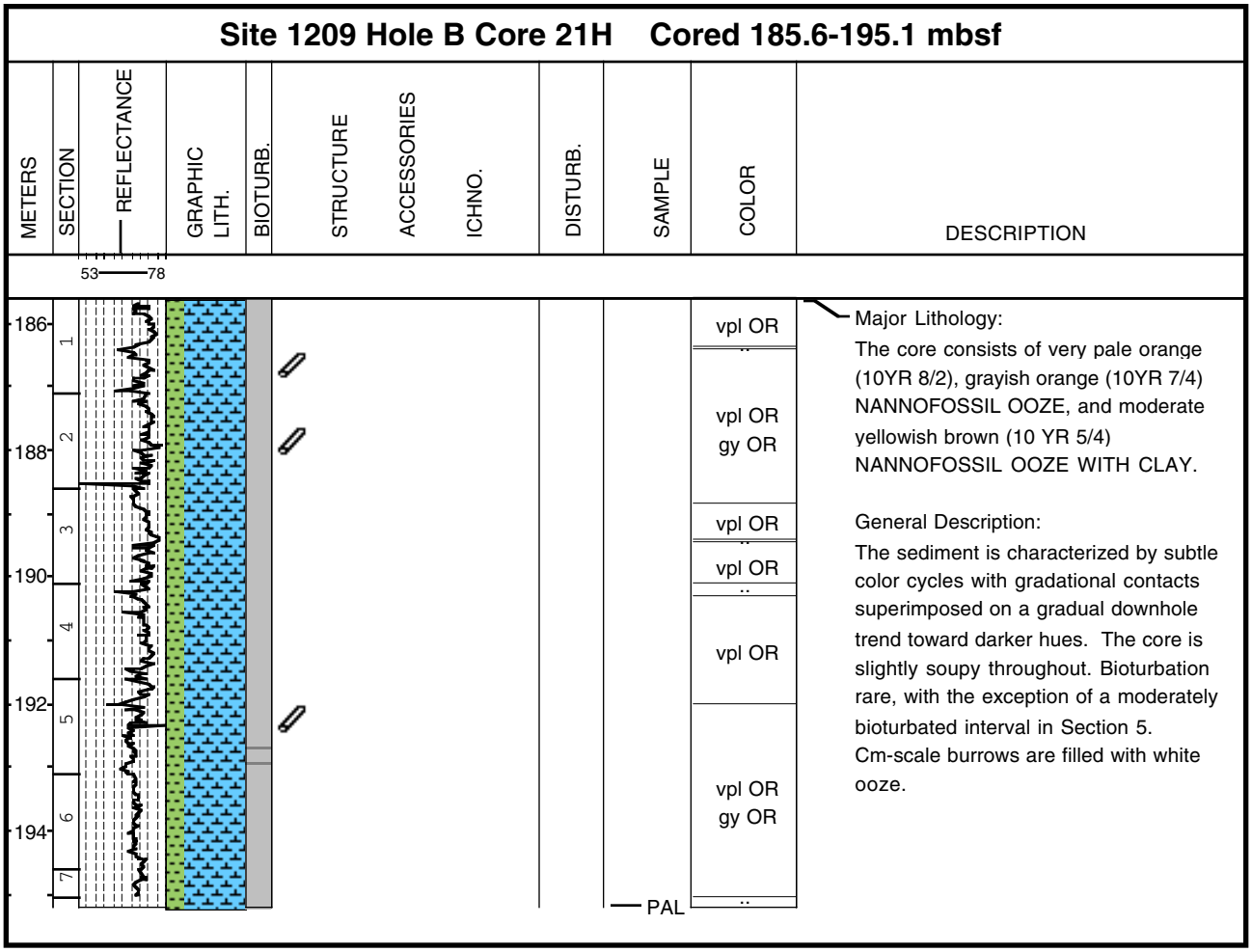
Site 1209 Hole B Core 20H Cored 176.1-185.6 mbsf



Major Lithology:
This core contains pale yellowish brown (10 YR 6/2) to moderate yellowish brown (10YR 5/4) NANNOFOSSIL OOZE.

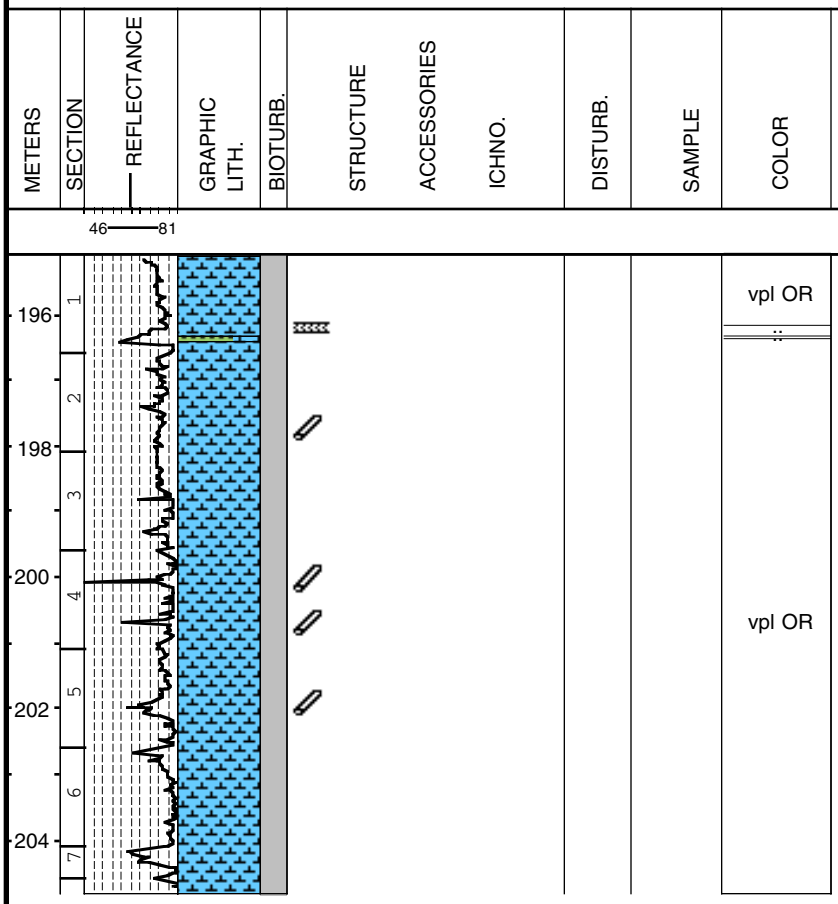
General Description:
The lithology is relatively uniform with subtle decimeter scale variations in color. Bioturbation is rare with the occasional distinct cm-scale burrow filled with very pale orange (10YR 8/2). Some burrows have a halo of moderate yellowish brown (10YR 5/2).

Core Photo


Site 1209 Hole B Core 21H Cored 185.6-195.1 mbsf
METERS
SECTION
REFLECTANCE
53
78
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
186
188
190
192
194
1
2
3
4
5
6
7
PAL
vpl OR
vpl OR
gy OR
vpl OR
vpl OR
vpl OR
vpl OR
gy OR
Major Lithology:
The core consists of very pale orange (10YR 8/2), grayish orange (10YR 7/4) NANNOFOSSIL OOZE, and moderate yellowish brown (10 YR 5/4) NANNOFOSSIL OOZE WITH CLAY.
General Description:
The sediment is characterized by subtle color cycles with gradational contacts superimposed on a gradual downhole trend toward darker hues. The core is slightly soupy throughout. Bioturbation rare, with the exception of a moderately bioturbated interval in Section 5. Cm-scale burrows are filled with white ooze.

Core Photo

Site 1209 Hole B Core 22H Cored 195.1-204.6 mbsf

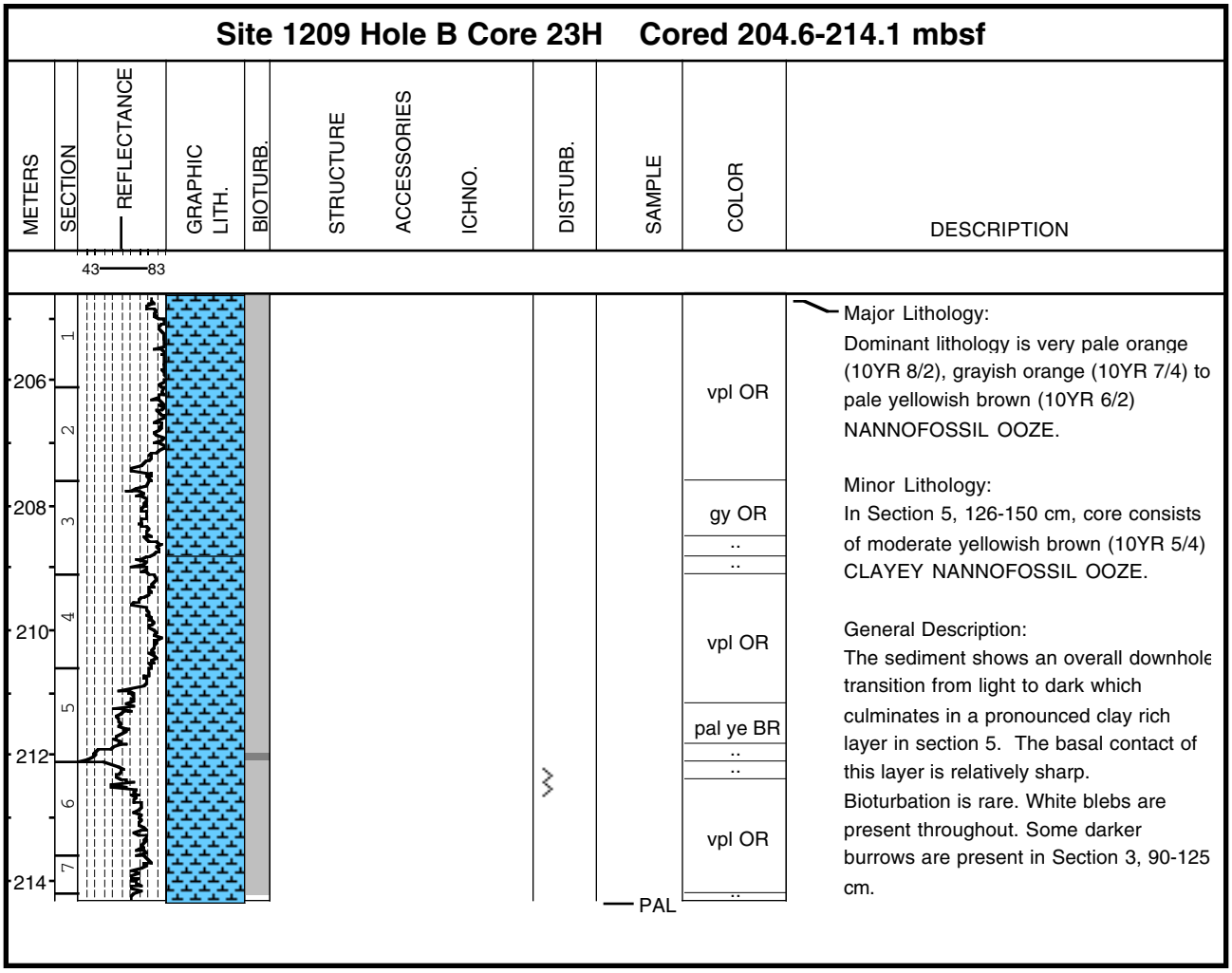


Major Lithology:
The core consists primarily of very pale orange (10YR 8/2) NANNOFOSSIL OOZE.

Minor Lithology:
Moderate yellowish brown (10YR 5/4) CLAY WITH NANNOFOSSILS occurs in Section 1, 128-132 cm.

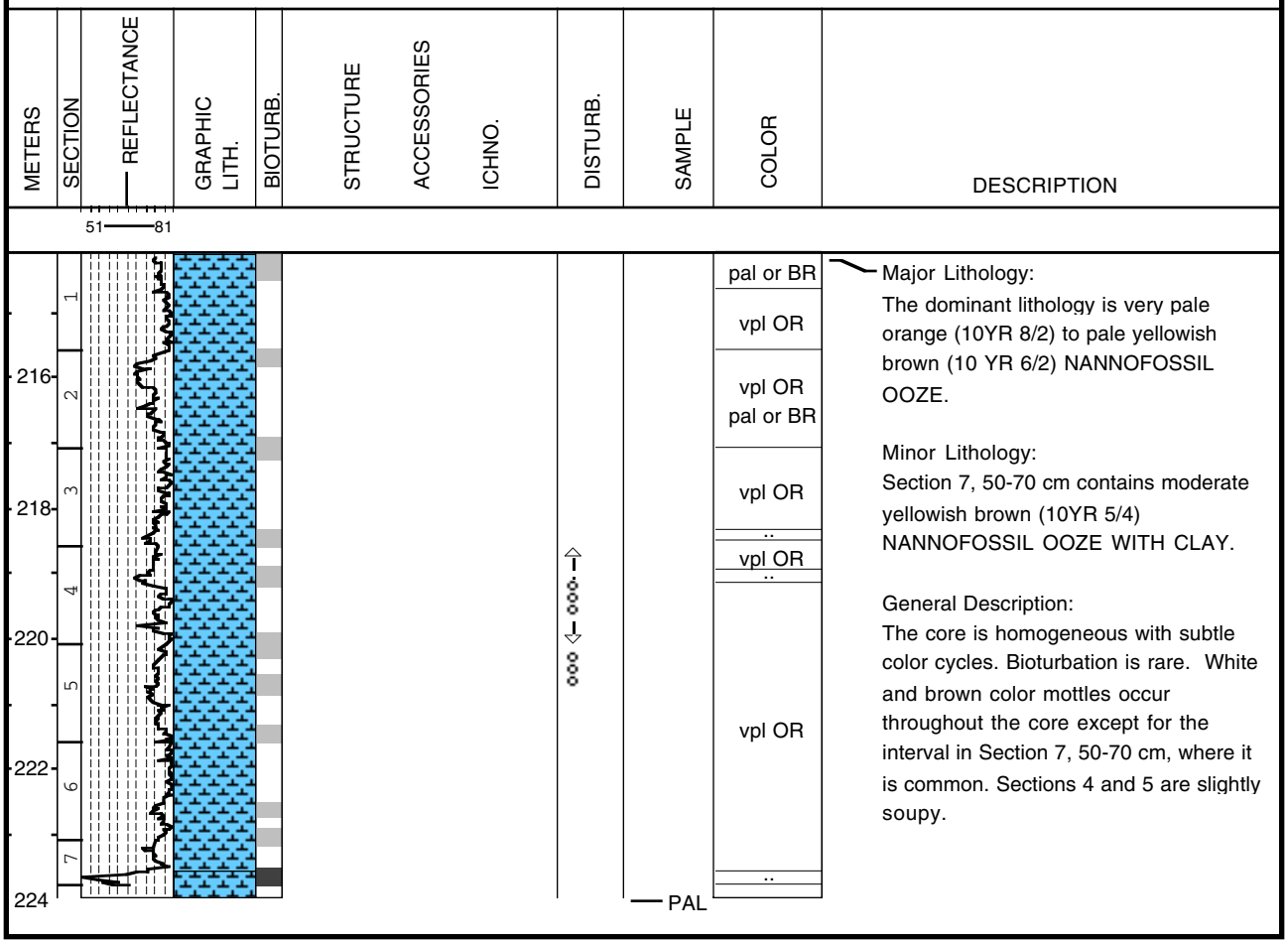
General Description:
The sediment is mostly homogeneous with discrete mottling and lined burrows throughout. Section 1 contains a sharp, yet slightly mottled contact at 132 cm between the underlying NANNOFOSSIL OOZE and CLAY WITH NANNOFOSSILS above. From the base of the contact, the color grades back to very pale orange. Zoophycos burrows are visible from 110-128 cm.

Core Photo


Site 1209 Hole B Core 23H Cored 204.6-214.1 mbsf
METERS
SECTION
REFLECTANCE
43
83
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
206
208
210
212
214
1
2
3
4
5
6
7
vpl OR
gy OR
vpl OR
pal ye BR
vpl OR
PAL
Major Lithology:
Dominant lithology is very pale orange (10YR 8/2), grayish orange (10YR 7/4) to pale yellowish brown (10YR 6/2) NANNOFOSSIL OOZE.
Minor Lithology:
In Section 5, 126-150 cm, core consists of moderate yellowish brown (10YR 5/4) CLAYEY NANNOFOSSIL OOZE.
General Description:
The sediment shows an overall downhole transition from light to dark which culminates in a pronounced clay rich layer in section 5. The basal contact of this layer is relatively sharp. Bioturbation is rare. White blebs are present throughout. Some darker burrows are present in Section 3, 90-125 cm.

Core Photo

Site 1209 Hole B Core 24H Cored 214.1-223.6 mbsf

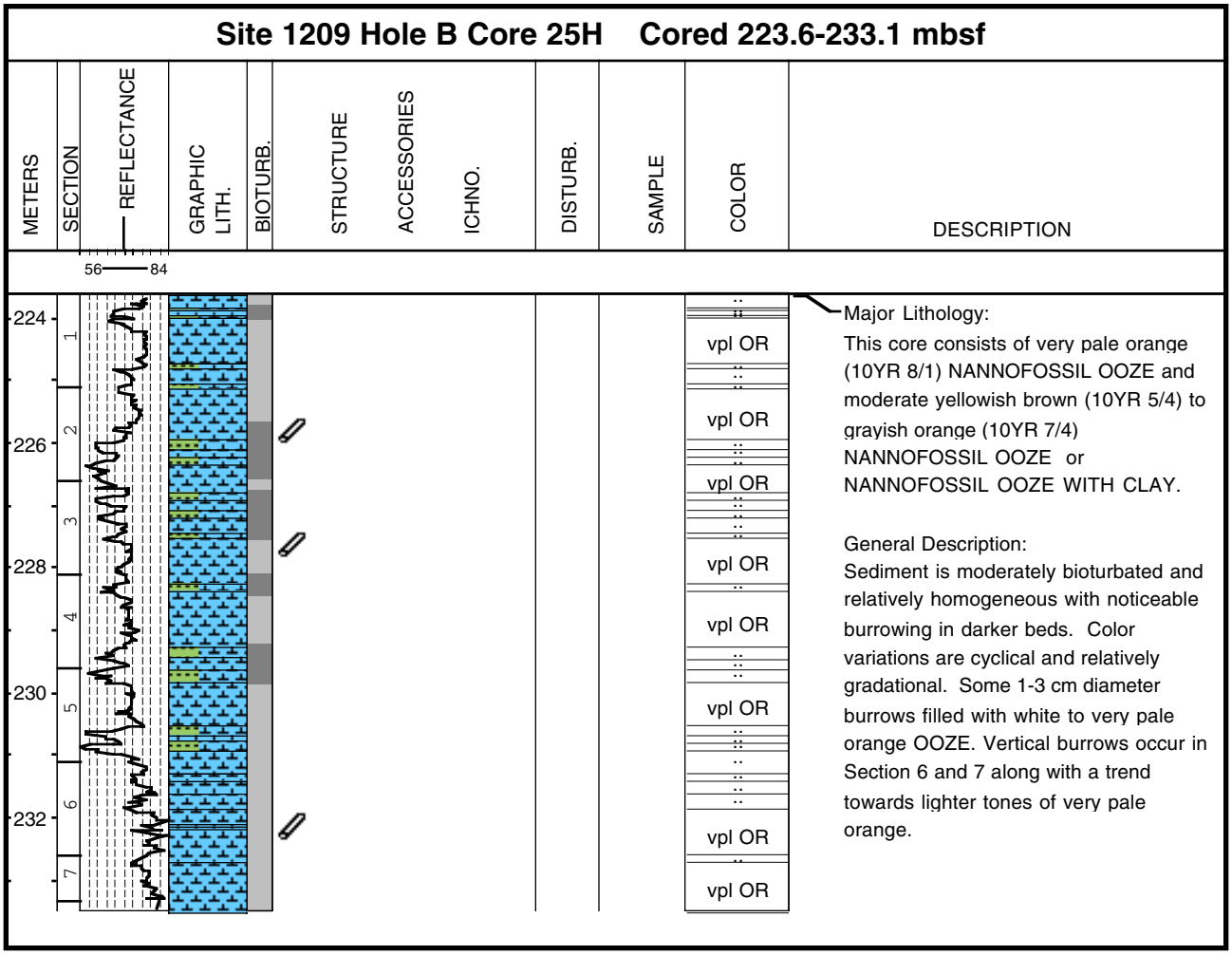


Major Lithology:
The dominant lithology is very pale orange (10YR 8/2) to pale yellowish brown (10 YR 6/2) NANNOFOSSIL OOZE.

Minor Lithology:
Section 7, 50-70 cm contains moderate yellowish brown (10YR 5/4) NANNOFOSSIL OOZE WITH CLAY.

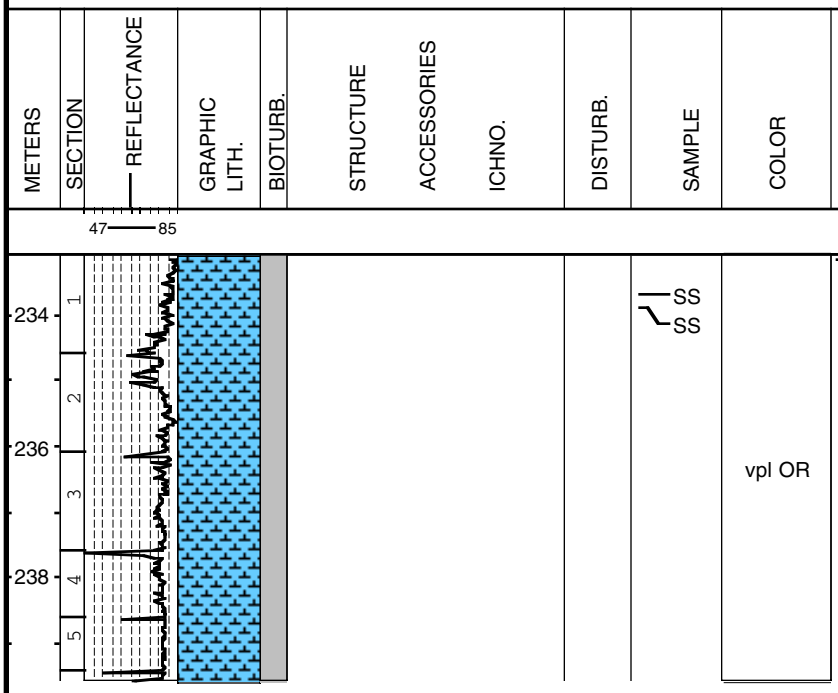
General Description:
The core is homogeneous with subtle color cycles. Bioturbation is rare. White and brown color mottles occur throughout the core except for the interval in Section 7, 50-70 cm, where it is common. Sections 4 and 5 are slightly soupy.

Core Photo


Site 1209 Hole B Core 25H Cored 223.6-233.1 mbsf
METERS
SECTION
REFLECTANCE
56
84
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
224
226
228
230
232
1
2
3
4
5
6
7
vpl OR
vpl OR
vpl OR
vpl OR
vpl OR
vpl OR
vpl OR
vpl OR
Major Lithology:
This core consists of very pale orange (10YR 8/1) NANNOFOSSIL OOZE and moderate yellowish brown (10YR 5/4) to grayish orange (10YR 7/4) NANNOFOSSIL OOZE or NANNOFOSSIL OOZE WITH CLAY.
General Description:
Sediment is moderately bioturbated and relatively homogeneous with noticeable burrowing in darker beds. Color variations are cyclical and relatively gradational. Some 1-3 cm diameter burrows filled with white to very pale orange OOZE. Vertical burrows occur in Section 6 and 7 along with a trend towards lighter tones of very pale orange.

Core Photo

Site 1209 Hole B Core 26H Cored 233.1-242.6 mbsf



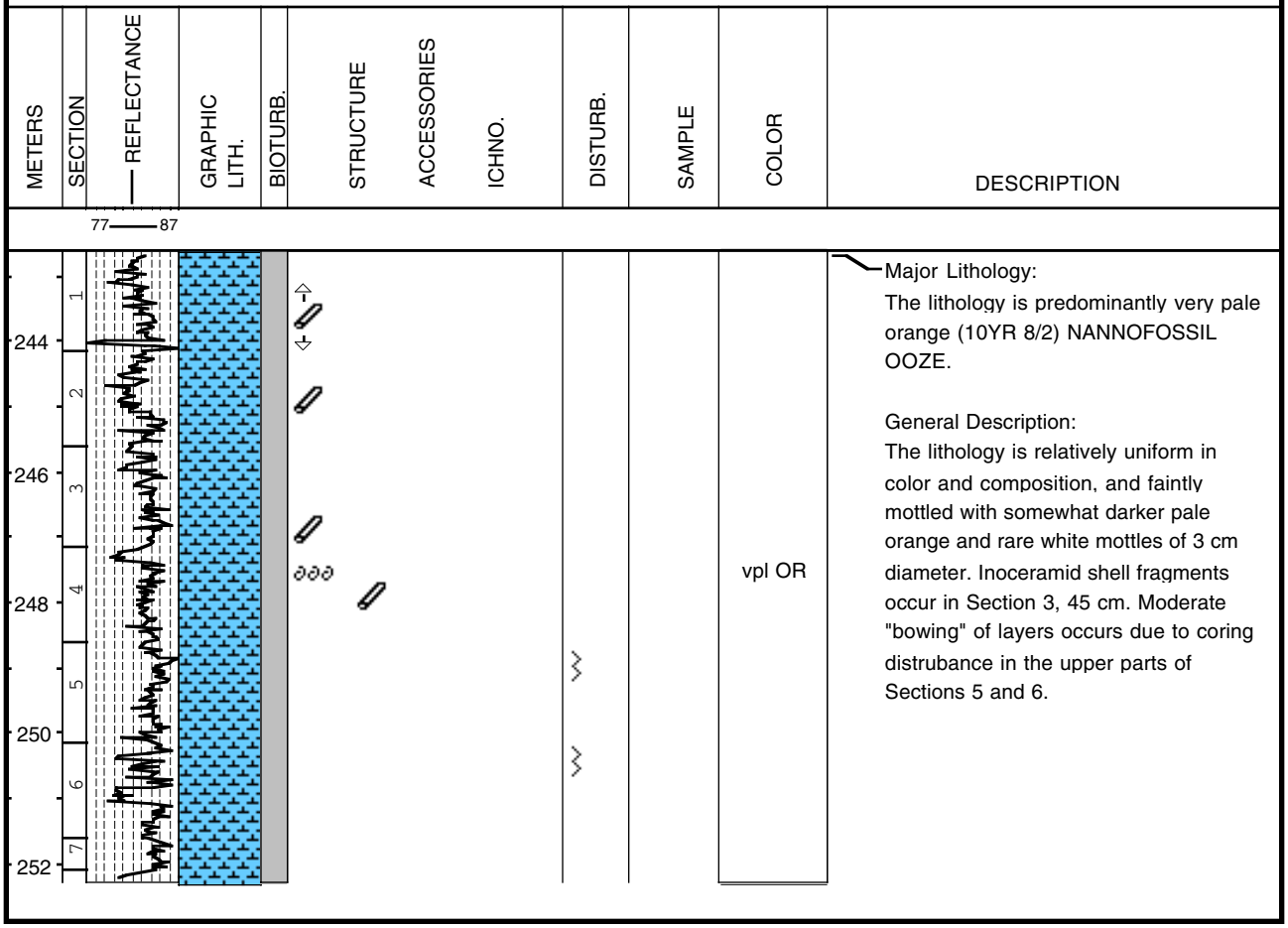
Major Lithology:
The dominant lithology is very pale orange (10YR 8/2) NANNOFOSSIL OOZE.

Minor Lithology:
Some burrows are filled with white (N9) NANNOFOSSIL OOZE.

General Description:
The sediment is relatively uniform in color with few visible burrows or structures. From the top of Section 3 to the base of the core the sediment is noticeably soupy and featureless.

Core Photo

Site 1209 Hole B Core 27H Cored 242.6-252.1 mbsf

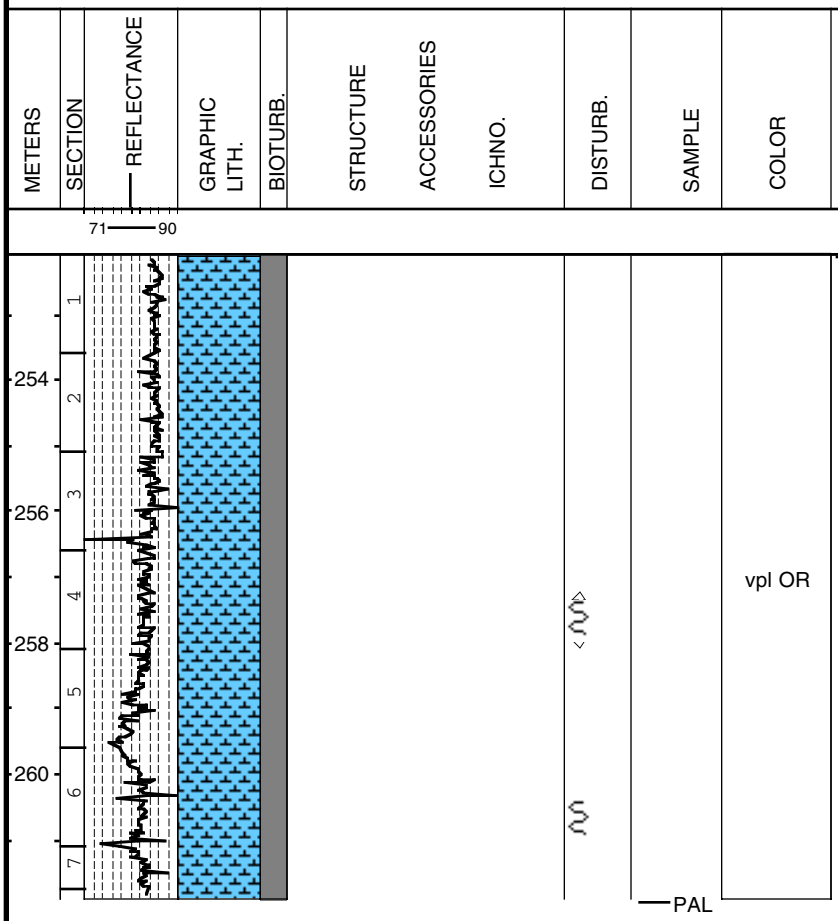


Major Lithology:
The lithology is predominantly very pale orange (10YR 8/2) NANNOFOSSIL OOZE.

General Description:
The lithology is relatively uniform in color and composition, and faintly mottled with somewhat darker pale orange and rare white mottles of 3 cm diameter. Inoceramid shell fragments occur in Section 3, 45 cm. Moderate "bowing" of layers occurs due to coring distrubance in the upper parts of Sections 5 and 6.

Core Photo

Site 1209 Hole B Core 28H Cored 252.1-261.6 mbsf

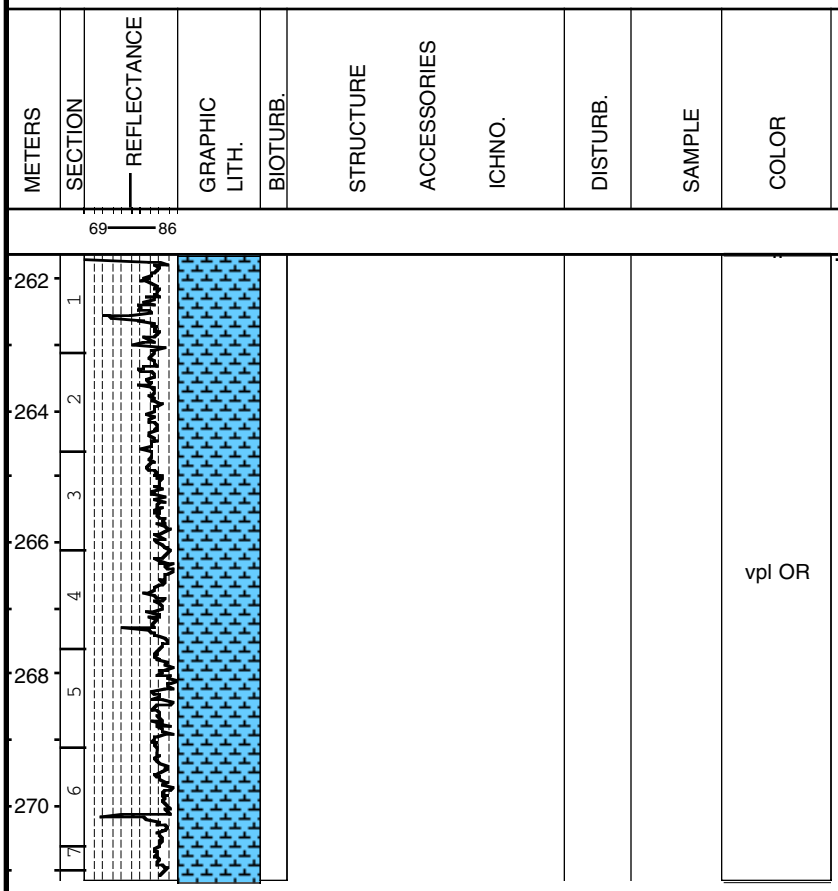


Major Lithology:
Core consists of very pale orange (10YR 8/2) NANNOFOSSIL OOZE.

General Comments:
Sediment is relatively uniform with respect to color and composition with the exception of a subtle darkening toward the bottom of the core. Slightly darker hues of very pale orange (10YR 8/2) define burrow mottling and thin (<1 cm) laminae that are likely horizontal burrows (Zoophycos?). Where curved and tilted they define the drilling deformation. Isolated white (N9) oval- to irregular-shaped patches of OOZE are present in Sections 1, 3, 5, 6, and 7. These range up to 5 cm in diameter and are locally zoned with darker interiors.

Core Photo

Site 1209 Hole B Core 29H Cored 261.6-271.1 mbsf

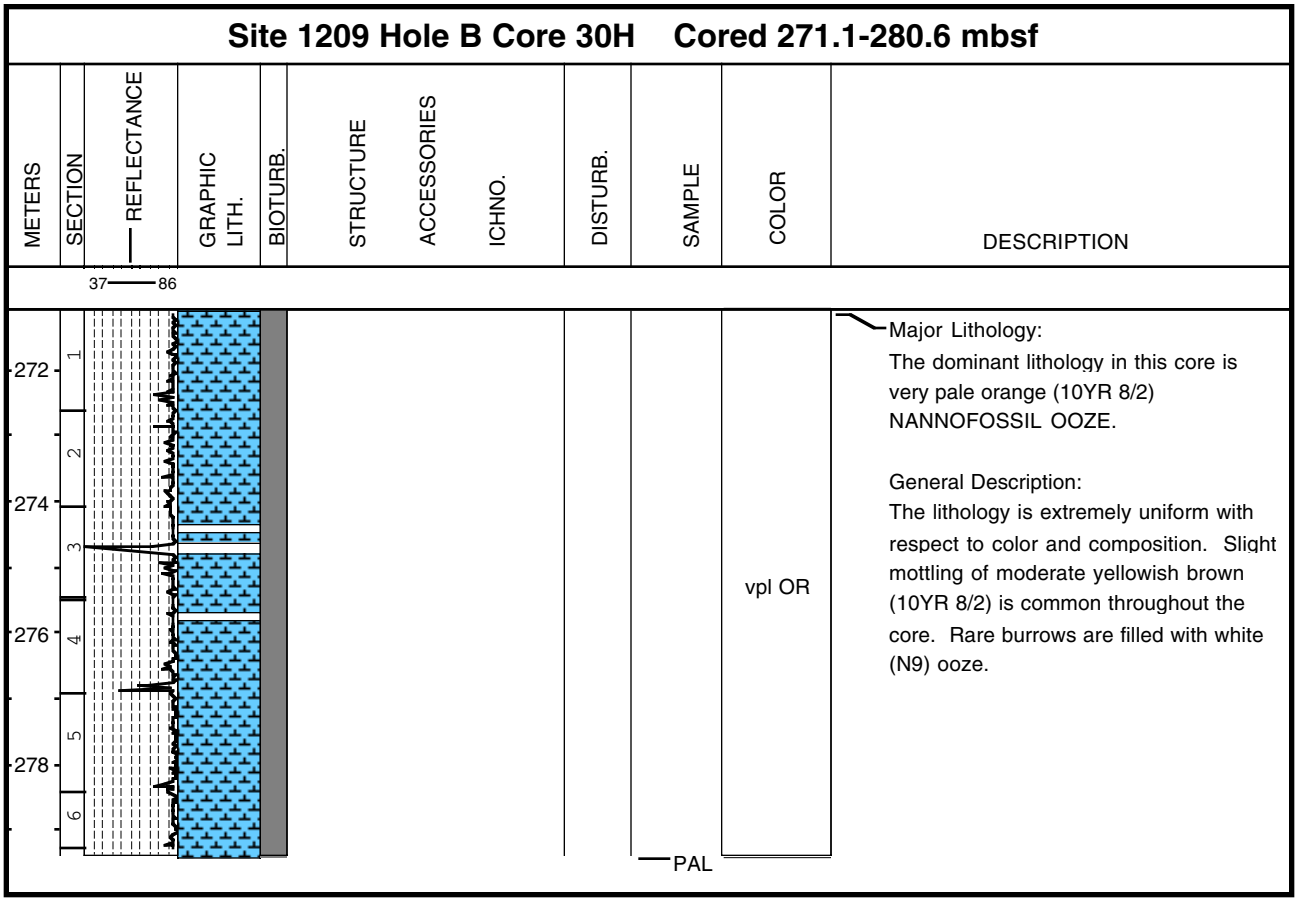


Major Lithology:
The core consists of very pale orange (10YR 8/2) NANNOFOSSIL OOZE.

Minor Lithology:
A thin grayish brown (5YR 3/2) layer of CHERT fragments occurs at the top of Section 1.

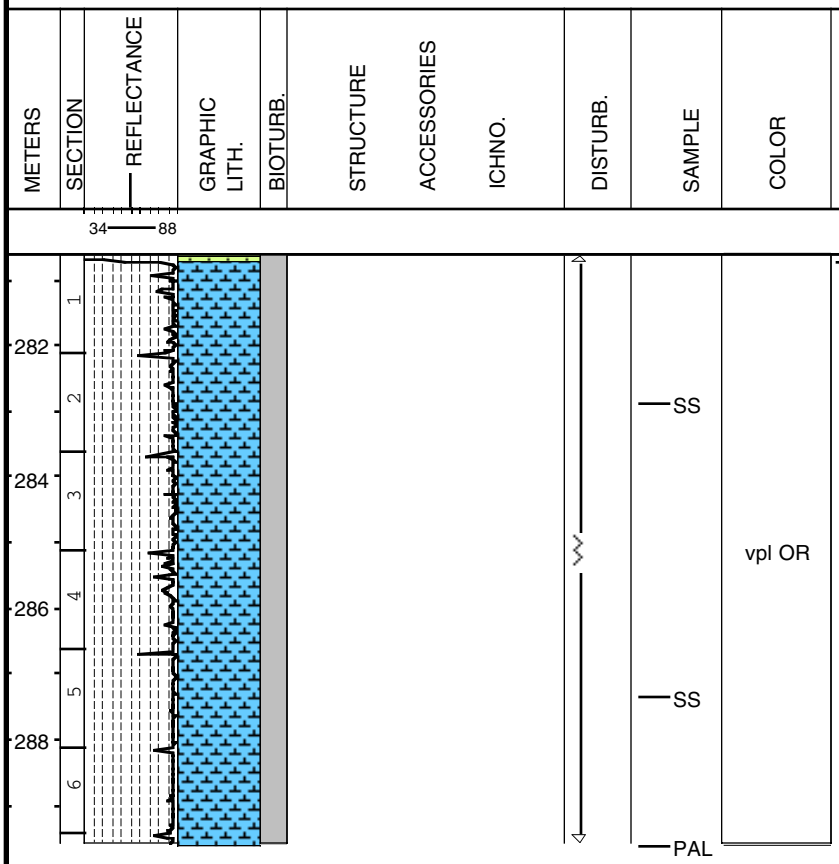
General Description:
The sediment is nearly homogeneous throughout, with rare whitish mottling.

Core Photo


Site 1209 Hole B Core 30H Cored 271.1-280.6 mbsf
METERS
SECTION
REFLECTANCE
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
37
86
272
274
276
278
1
2
3
4
5
6
vpl OR
PAL
Major Lithology:
The dominant lithology in this core is very pale orange (10YR 8/2) NANNOFOSSIL OOZE.
General Description:
The lithology is extremely uniform with respect to color and composition. Slight mottling of moderate yellowish brown (10YR 8/2) is common throughout the core. Rare burrows are filled with white (N9) ooze.

Core Photo

Site 1209 Hole B Core 31H Cored 280.6-290.1 mbsf



DESCRIPTION

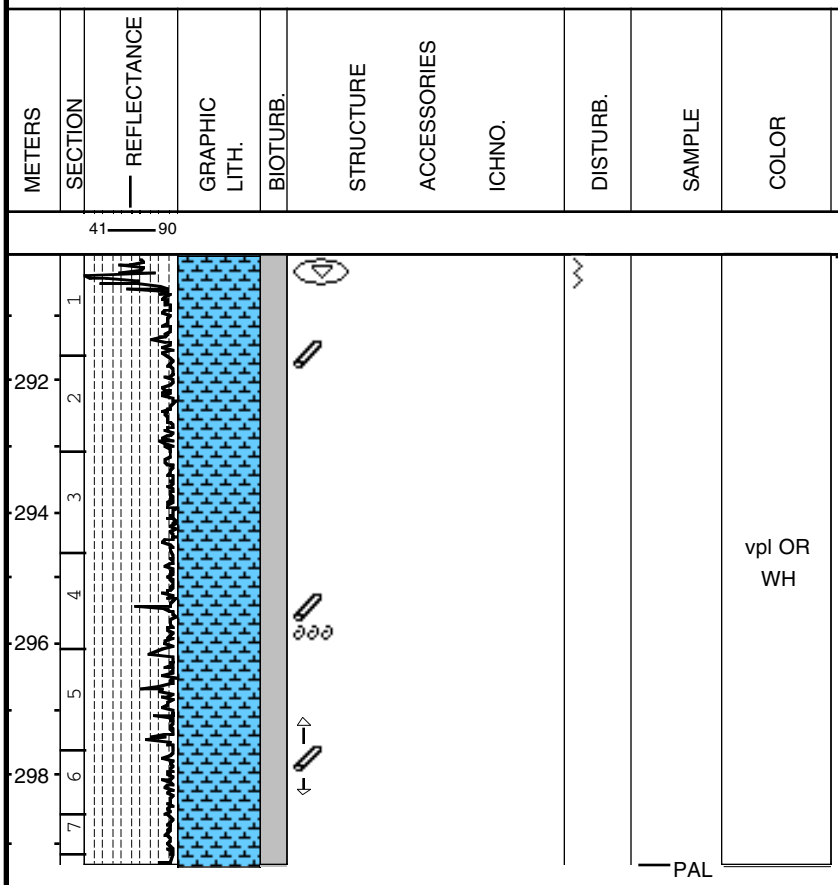
Major Lithology:
The core consists of very pale orange (10YR 8/2) and firm NANNOFOSSIL OOZE.

Minor Lithology:
Top 10 cm in Section 1 contains moderat reddish brown (10YR 5/4) CHERT rubble.

General Description:
The lithology is extremely uniform with respect to both color and composition. Bioturbation is rare throughout and consists of pale yellowish brown (10YR 7/2) mottles and occasional very light gray (N8) burrow fillings. Inoceramid shell fragments are present in Sections 1, 50-51 cm, and 4, 39-40 cm. The sediment is quite firm (almost chalk) in Sections 1-4 and soft ooze in Sections 5-6.

Core Photo

Site 1209 Hole B Core 32H Cored 290.1-297.6 mbsf

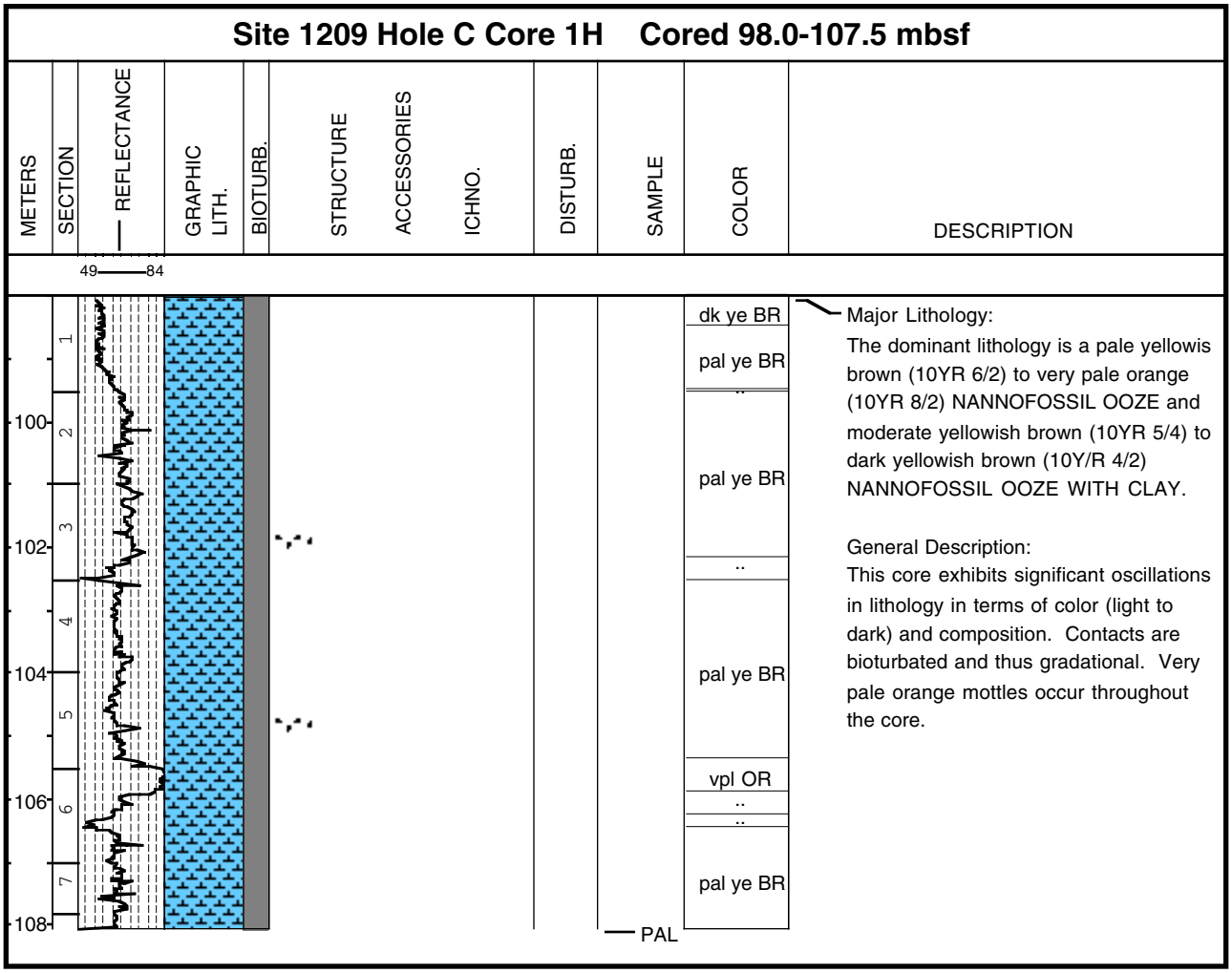


Major Lithology:
This core consists of vary pale orange (10YR 8/2) to white (N9) NANNOFOSSIL OOZE.

Minor Lithology:
Moderate yellowish brown (10YR 5/4) and dusky brown (5YR 2/2) CHERT fragments are localized at the top of the core.

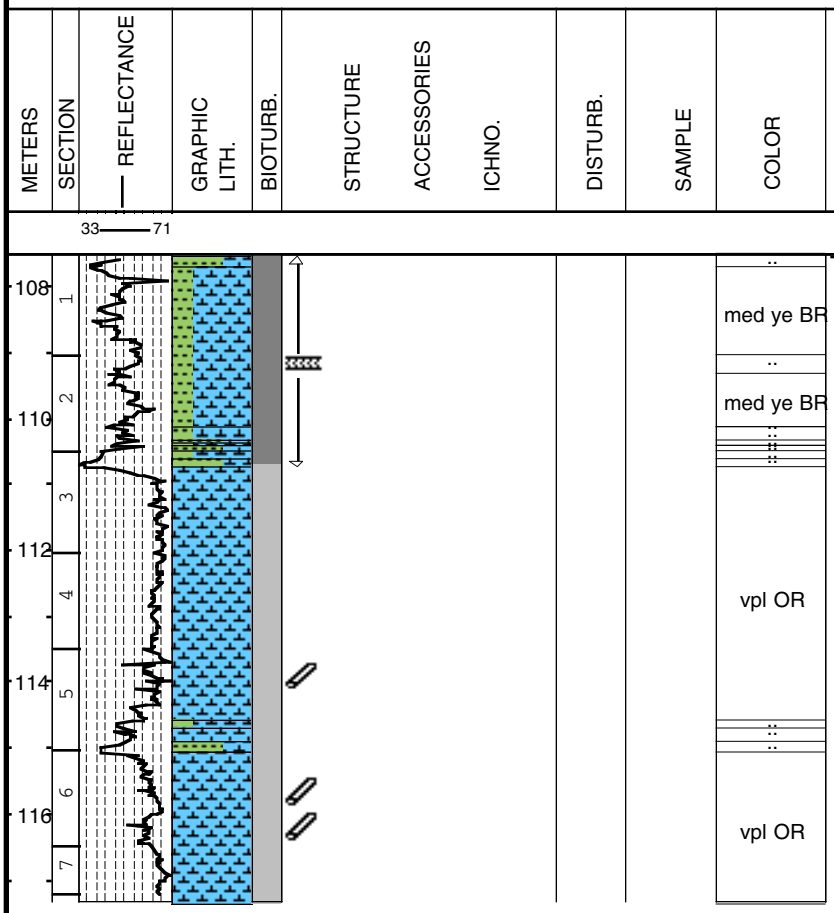
General Description:
The lithology is very uniform. A disburbed interval between the top and 55 cm in Section 1 contains mostly chert fragments (5mm - 5 cm in diameter). Shell fragments (Inoceramids) are observed at 80 cm in Section 4. Bioturbation is rare throughout this core, and burrows filled with white ooze are also rare.

Core Photo


Site 1209 Hole C Core 1H Cored 98.0-107.5 mbsf
METERS
SECTION
REFLECTANCE
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
49
84
100
102
104
106
108
1
2
3
4
5
6
7
dk ye BR
pal ye BR
pal ye BR
pal ye BR
vpl OR
pal ye BR
PAL
Major Lithology:
The dominant lithology is a pale yellowis brown (10YR 6/2) to very pale orange (10YR 8/2) NANNOFOSSIL OOZE and moderate yellowish brown (10YR 5/4) to dark yellowish brown (10Y/R 4/2) NANNOFOSSIL OOZE WITH CLAY.
General Description:
This core exhibits significant oscillations in lithology in terms of color (light to dark) and composition. Contacts are bioturbated and thus gradational. Very pale orange mottles occur throughout the core.

Core Photo

Site 1209 Hole C Core 2H Cored 107.5-117.0 mbsf



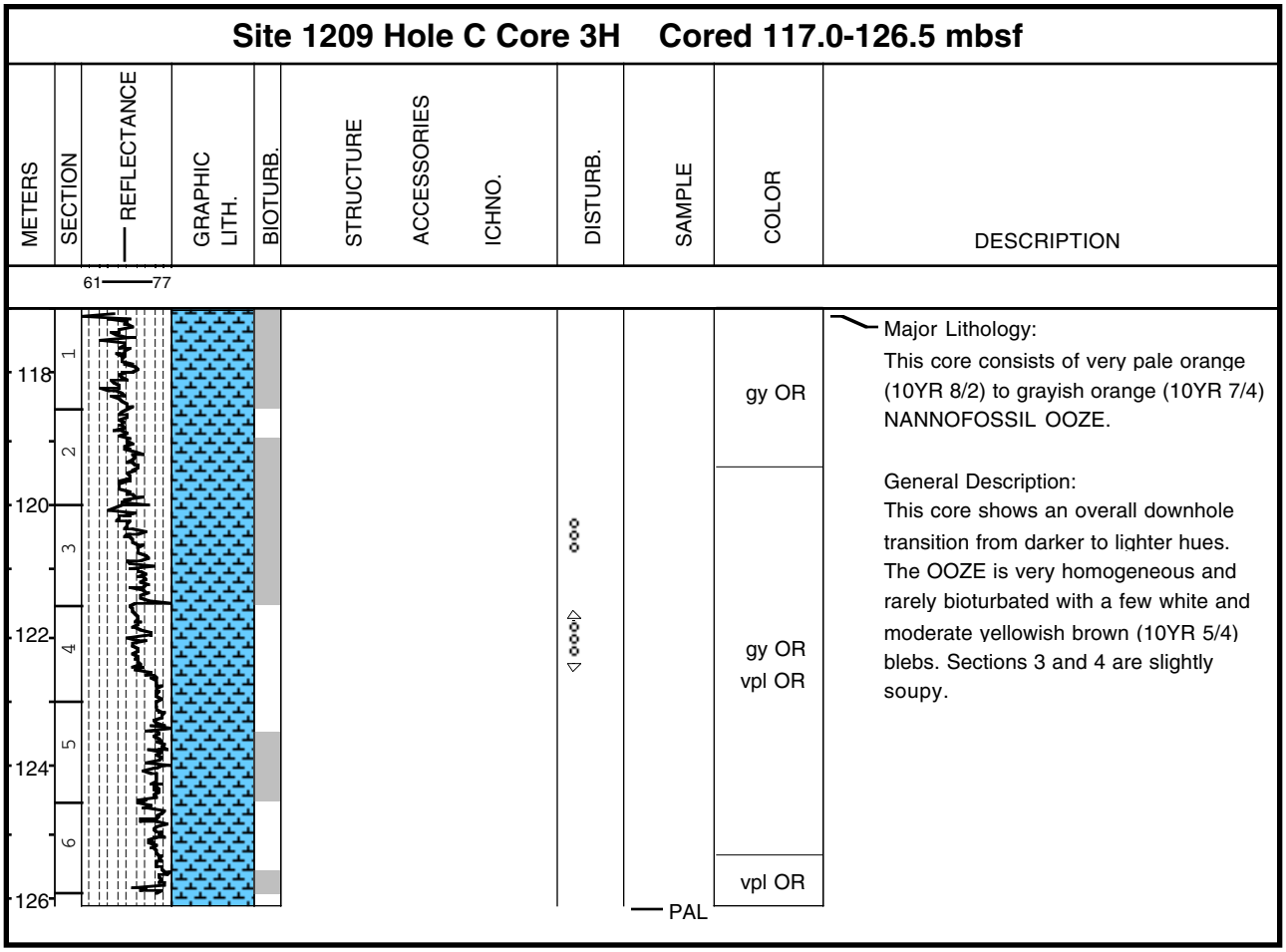
DESCRIPTION

Major Lithologies:
The core primarily consists of very pale orange (10YR 8/2) NANNOFOSSIL OOZE and moderate yellowish brown (10YR 5/4) CLAYEY NANNOFOSSIL OOZE.

Minor Lithology:
Dark yellowish brown (10YR 4/2) CLAY WITH NANNOFOSSILS occurs in several cm-thick intervals and as mottling throughout the core.

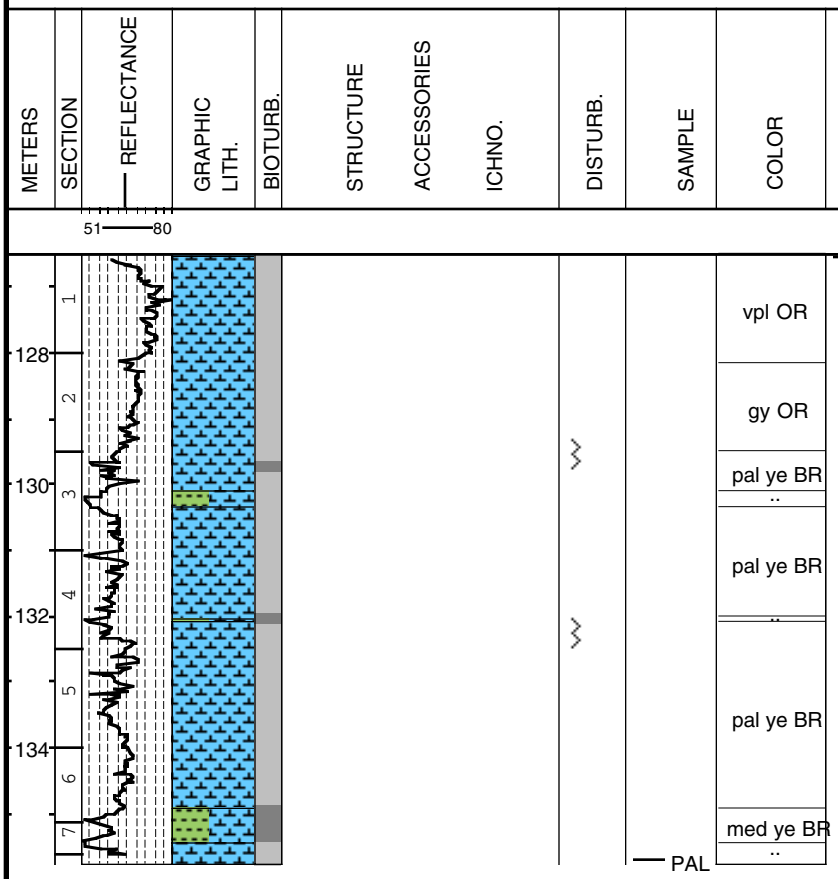
General Description:
This core is characterized by a major shift in lithology in terms of color, composition, and texture. Sections 1 through 3, 23 cm contain irregular oscillations of lighter CLAYEY NANNOFOSSIL OOZE and darker CLAY WITH NANNOFOSSILS, and is moderately bioturbated with Zoophycos. Below section 3, 23 cm the sediment is softer and is dominated by nearly homogeneous NANNOFOSSIL OOZE, with discrete lined burrows.

Core Photo


Site 1209 Hole C Core 3H Cored 117.0-126.5 mbsf
METERS
SECTION
REFLECTANCE
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
61
77
118
120
122
124
126
1
2
3
4
5
6
gy OR
gy OR
vpl OR
vpl OR
PAL
Major Lithology:
This core consists of very pale orange (10YR 8/2) to grayish orange (10YR 7/4) NANNOFOSSIL OOZE.
General Description:
This core shows an overall downhole transition from darker to lighter hues. The OOZE is very homogeneous and rarely bioturbated with a few white and moderate yellowish brown (10YR 5/4) blebs. Sections 3 and 4 are slightly soupy.

Core Photo

Site 1209 Hole C Core 4H Cored 126.5-136.0 mbsf

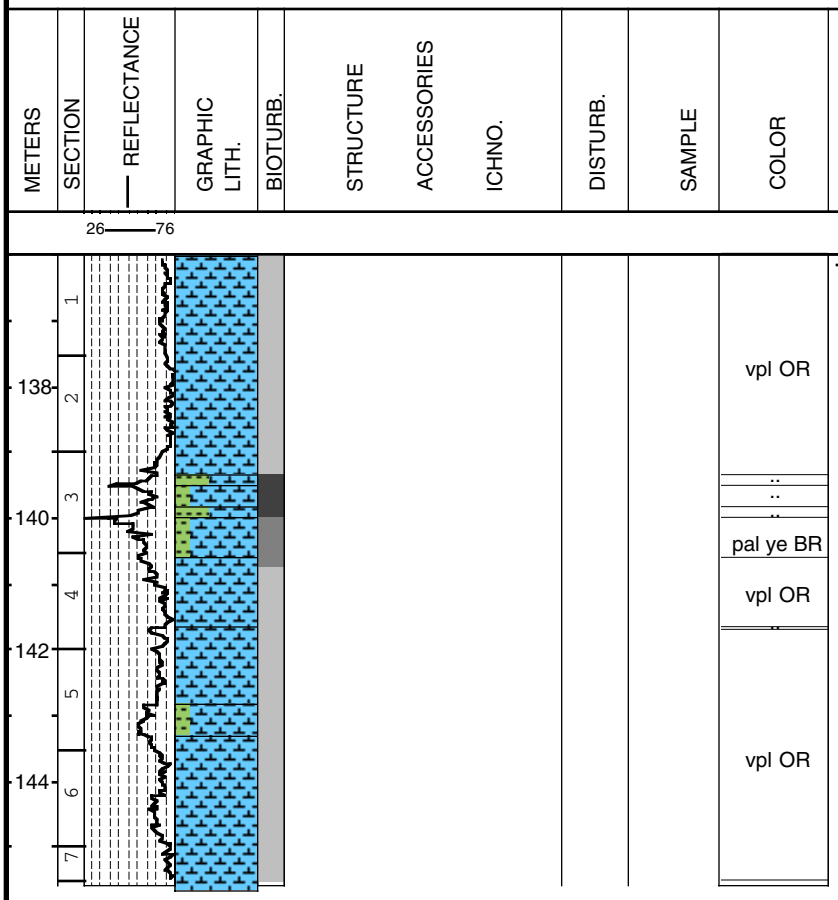


Major Lithology:
This core contains very pale orange (10YR 8/2) and grayish orange NANNOFOSSIL OOZE, pale yelllowish brown (10YR 6/2) NANNOFOSSIIL OOZE WITH CLAY and moderate yellowish brown (10YR 5/4) CLAYEY NANNOFOSSIL OOZE.

General Comments:
The sediment exhibits cyclical oscillations in color superimposed on an overall downhole transition from lighter to darker hues. Contacts between darker intervals and lighter intervals are bioturbated to gradational. Burrow mottling is present throughout the core. Drilling disturbance was not uniform. but concentrated in a few intervals. Darker intervals were stiff, dry and cut less smoothly.

Core Photo

Site 1209 Hole C Core 5H Cored 136.0-145.5 mbsf



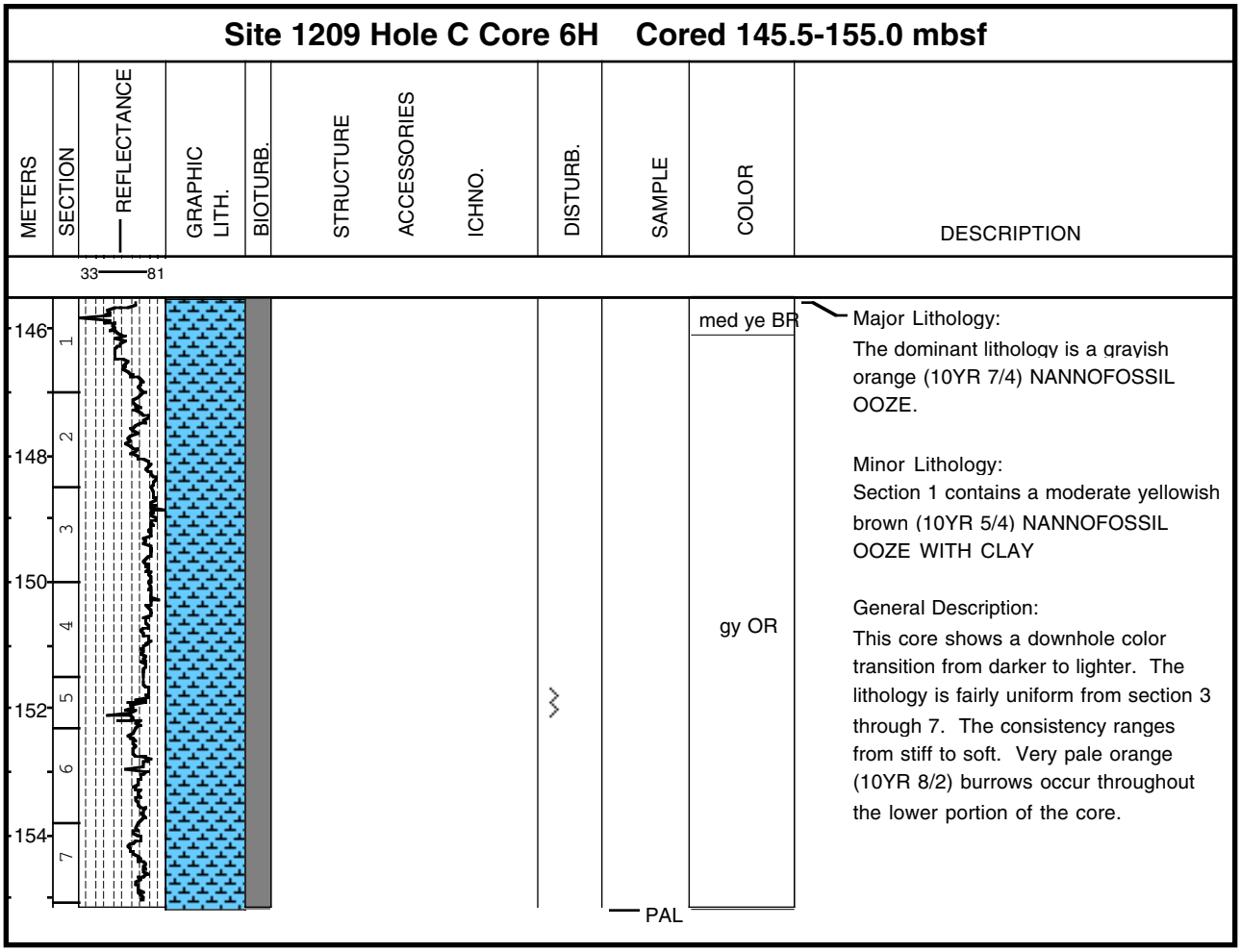
DESCRIPTION

Major Lithology:
The dominant lithology is a very pale orange (10YR 8/2) NANNOFOSSIL OOZE

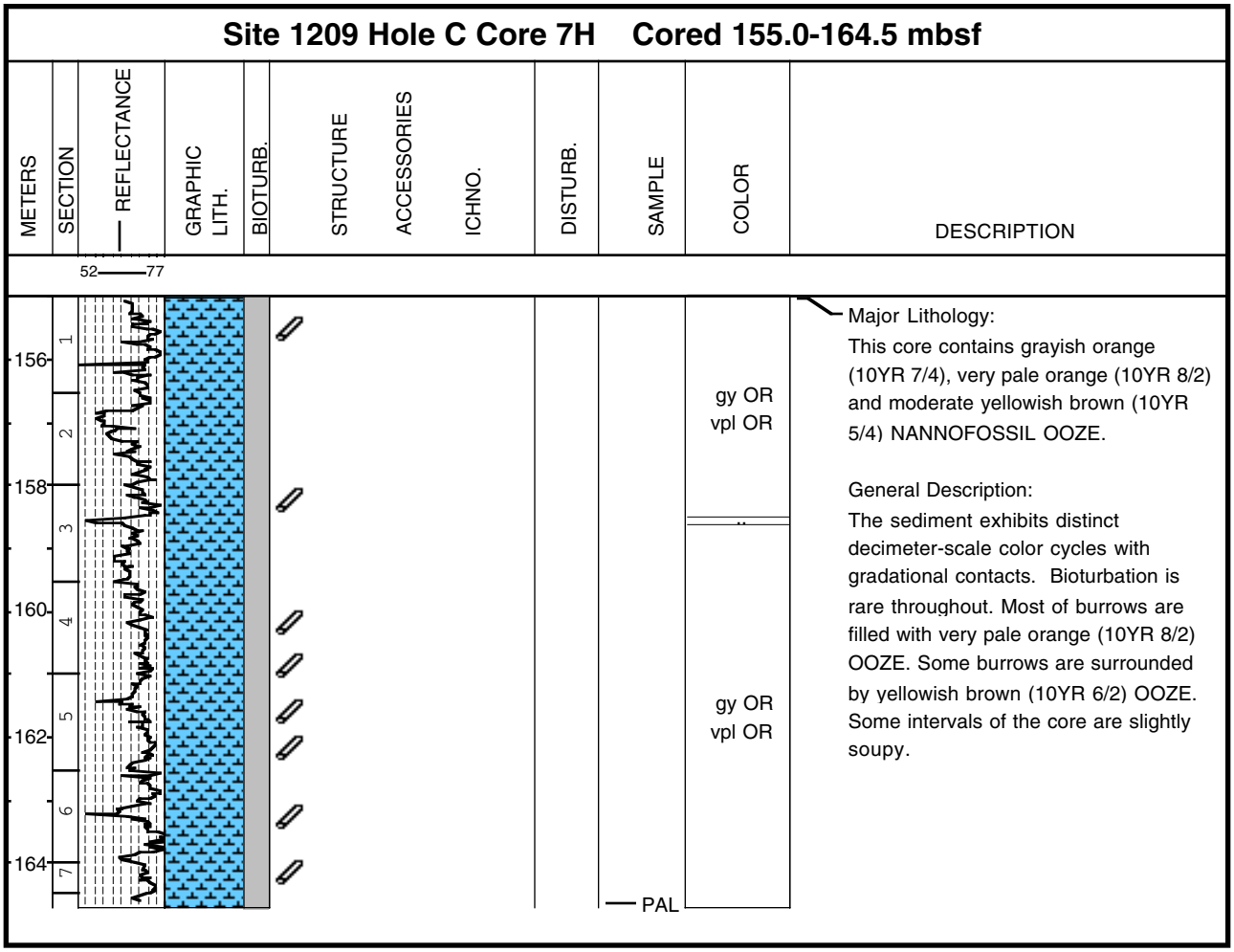
Minor Lithology:
Moderate to dark yellowish brown (10YR 5/4 to 4/2) NANNOFOSSIL OOZE with CLAY and CLAYEY NANNOFOSSIL OOZE

General Description:
The upper portion of the core is relatively uniform. From section 3 down, there are color cycles of light to somewhat darker intervals with gradational contacts. Rare, large, indistinct burrows or mottles (to 2 cm diameter) of white to very pale orange do occur throughout.

Core Photo

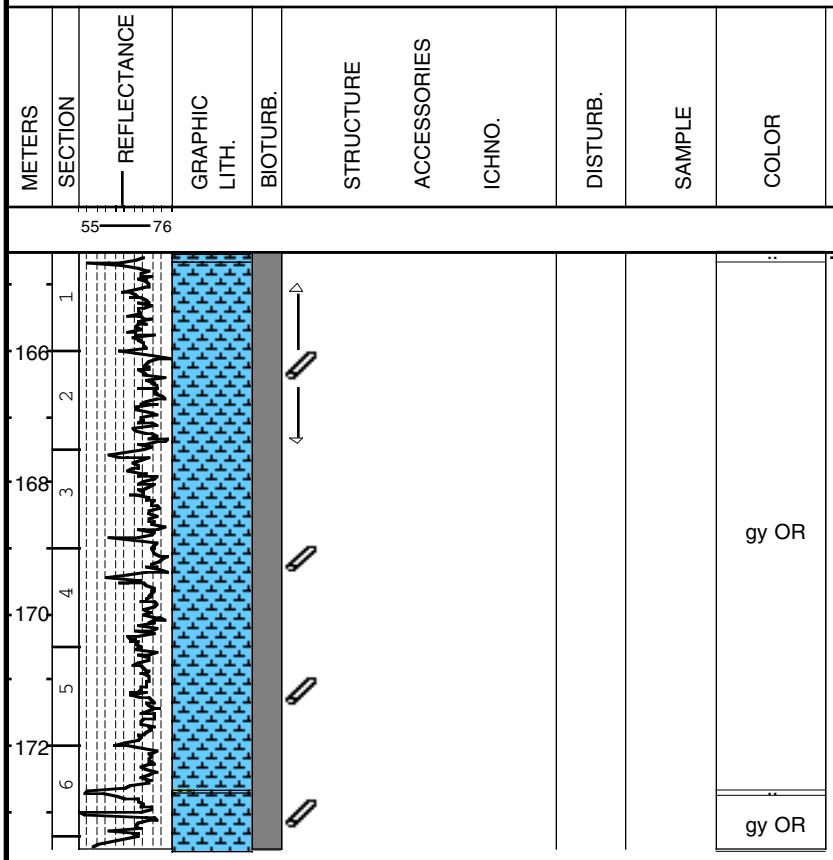

Site 1209 Hole C Core 6H Cored 145.5-155.0 mbsf
METERS
SECTION
REFLECTANCE
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
33
81
146
148
150
152
154
1
2
3
4
5
6
7
med ye BR
gy OR
PAL
Major Lithology:
The dominant lithology is a grayish orange (10YR 7/4) NANNOFOSSIL OOZE.
Minor Lithology:
Section 1 contains a moderate yellowish brown (10YR 5/4) NANNOFOSSIL OOZE WITH CLAY
General Description:
This core shows a downhole color transition from darker to lighter. The lithology is fairly uniform from section 3 through 7. The consistency ranges from stiff to soft. Very pale orange (10YR 8/2) burrows occur throughout the lower portion of the core.

Core Photo


Site 1209 Hole C Core 7H Cored 155.0-164.5 mbsf
METERS
SECTION
REFLECTANCE
52
77
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
156
158
160
162
164
1
2
3
4
5
6
7
gy OR
vpl OR
gy OR
vpl OR
PAL
Major Lithology:
This core contains grayish orange (10YR 7/4), very pale orange (10YR 8/2) and moderate yellowish brown (10YR 5/4) NANNOFOSSIL OOZE.
General Description:
The sediment exhibits distinct decimeter-scale color cycles with gradational contacts. Bioturbation is rare throughout. Most of burrows are filled with very pale orange (10YR 8/2) OOZE. Some burrows are surrounded by yellowish brown (10YR 6/2) OOZE. Some intervals of the core are slightly soupy.

Core Photo

Site 1209 Hole C Core 8H Cored 164.5-174.0 mbsf



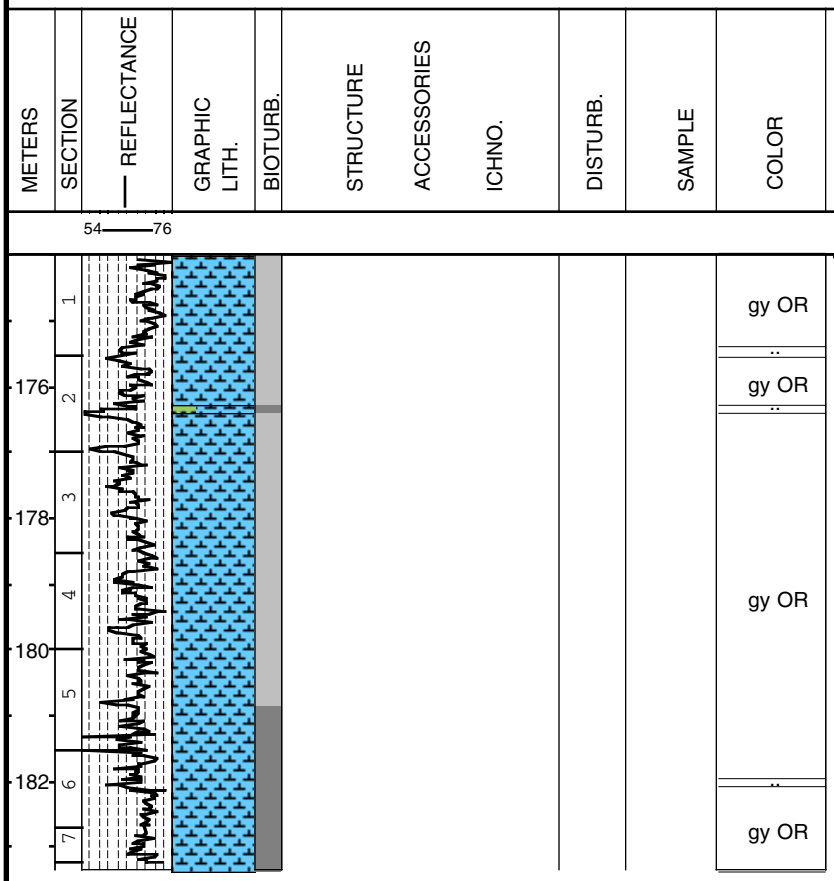
Major Lithology:
This core contains primarily grayish orange (10YR 7/4) NANNOFOSSIL OOZE.

Minor Lithology:
Thin beds of moderate yellowish brown (10YR 5/4) NANNOFOSSIL OOZE WITH CLAY occurs in Section 1, 13-16 cm and Section 6, 68-74 cm.

General Description:
The sediment is relatively uniform in color and composition. Bioturbation is rare to moderate.

Core Photo

Site 1209 Hole C Core 9H Cored 174.0-183.5 mbsf



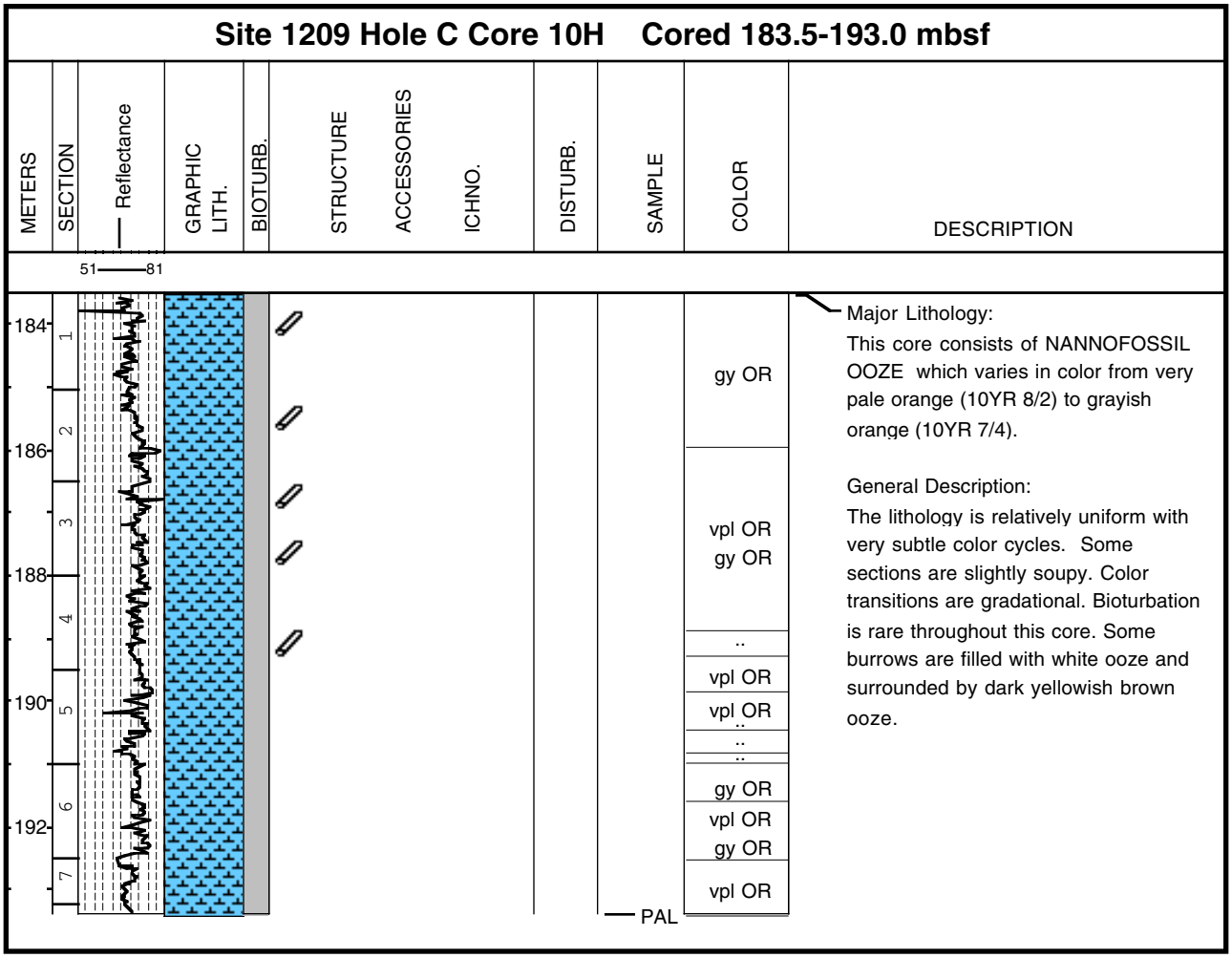
DESCRIPTION

Major Lithology:
The dominant lithology is a grayish orange (10YR 7/4) NANNOFOSSIL OOZE.

Minor Lithology:
Moderate yellowish brown (10YR 5/4) CLAYEY NANNOFOSSIL OOZE occurs in Section 2, 80-94 cm.

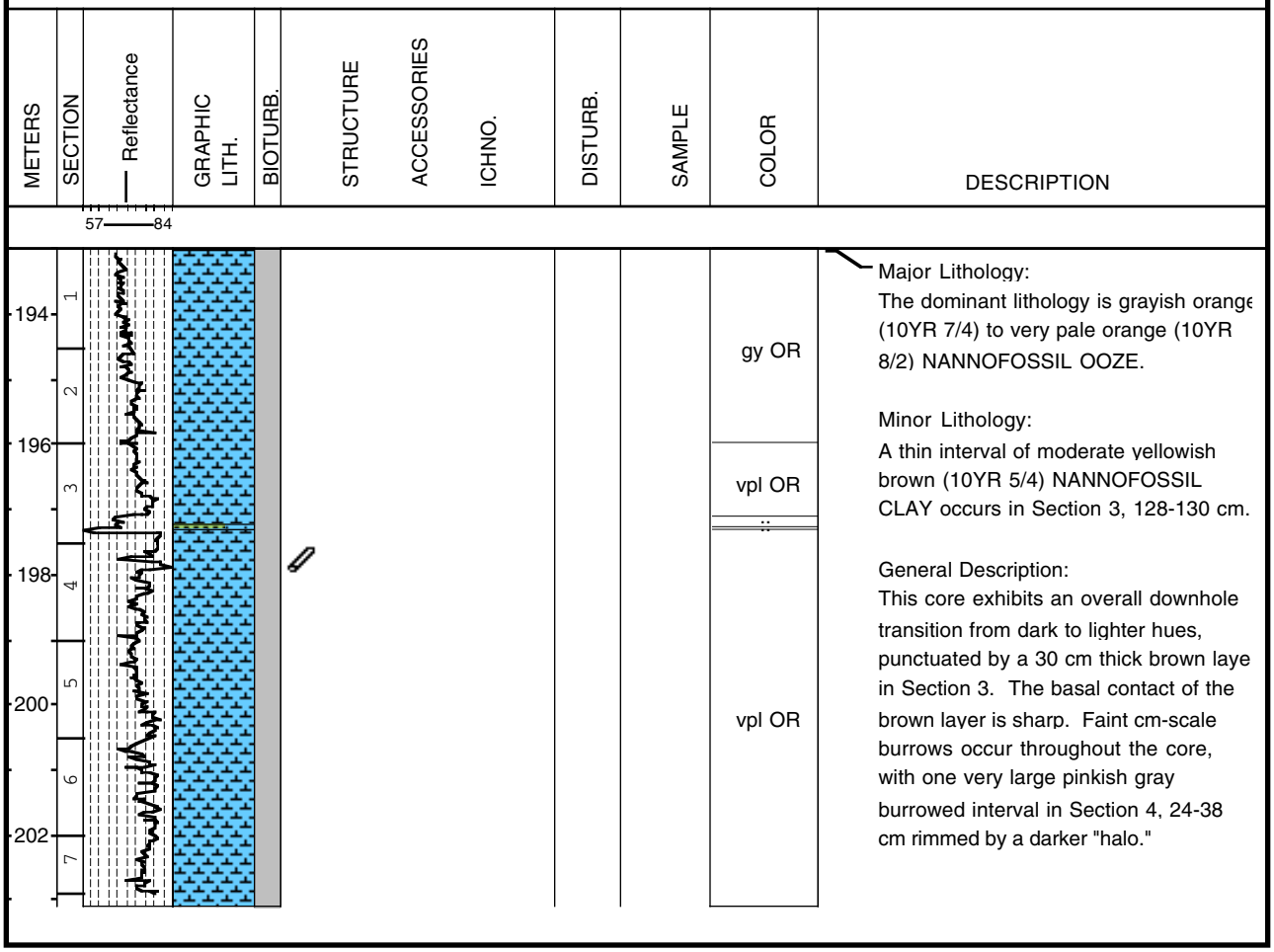
General Description:
The sediment exhibits very subtle decimeter scale color cycles. Faint to obvious mottles (1-4 cm diameter) of white or very pale orange OOZE associated with dark yellowish brown "halos" occur throughout, but are most prevalent in Sections 5 and 6. These are probably burrows, but are indistinct in this soft OOZE.

Core Photo


Site 1209 Hole C Core 10H Cored 183.5-193.0 mbsf
METERS
SECTION
Reflectance
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
51
81
184
186
188
190
192
1
2
3
4
5
6
7
gy OR
vpl OR
gy OR
vpl OR
vpl OR
gy OR
vpl OR
gy OR
vpl OR
PAL
Major Lithology:
This core consists of NANNOFOSSIL OOZE which varies in color from very pale orange (10YR 8/2) to grayish orange (10YR 7/4).
General Description:
The lithology is relatively uniform with very subtle color cycles. Some sections are slightly soupy. Color transitions are gradational. Bioturbation is rare throughout this core. Some burrows are filled with white ooze and surrounded by dark yellowish brown ooze.

Core Photo

Site 1209 Hole C Core 11H Cored 193.0-202.5 mbsf



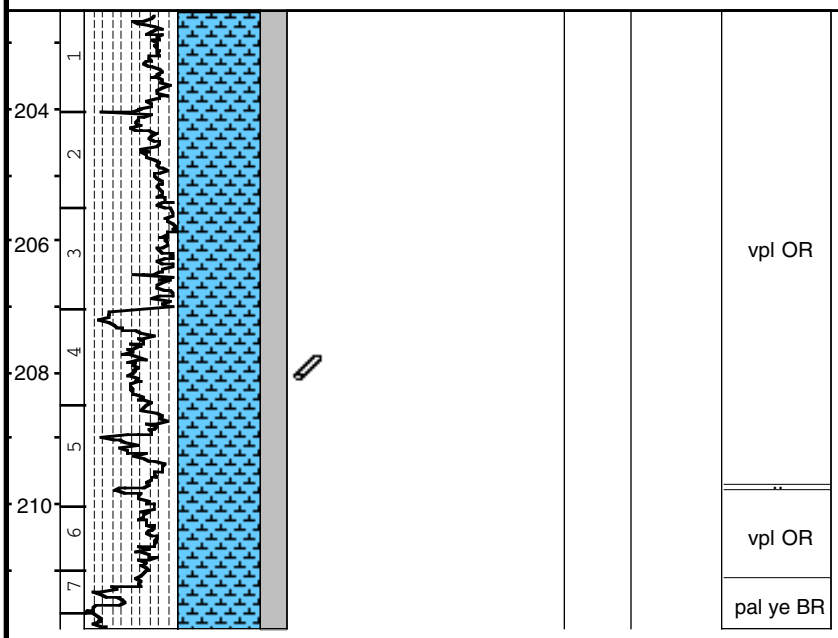
Major Lithology:
The dominant lithology is grayish orange (10YR 7/4) to very pale orange (10YR 8/2) NANNOFOSSIL OOZE.

Minor Lithology:
A thin interval of moderate yellowish brown (10YR 5/4) NANNOFOSSIL CLAY occurs in Section 3, 128-130 cm.

General Description:
This core exhibits an overall downhole transition from dark to lighter hues, punctuated by a 30 cm thick brown laye in Section 3. The basal contact of the brown layer is sharp. Faint cm-scale burrows occur throughout the core, with one very large pinkish gray burrowed interval in Section 4, 24-38 cm rimmed by a darker "halo."

Core Photo

Site 1209 Hole C Core 12H Cored 202.5-212.0 mbsf



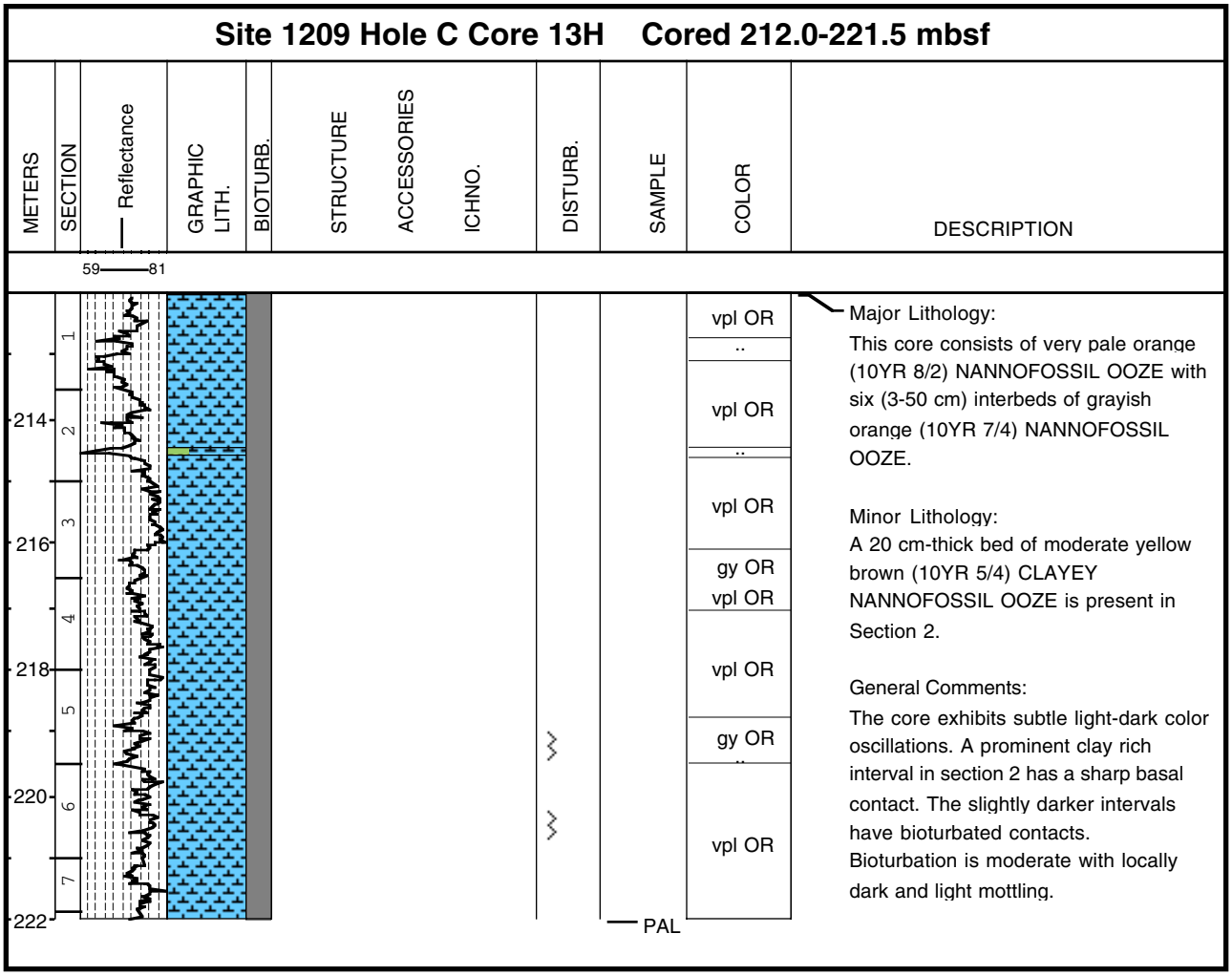
DESCRIPTION

Major Lithology:
The core consists of very pale orange (10YR 8/2) to grayish orange (10YR 7/4 NANNOFOSSIL OOZE.

Minor Lithology:
Section 7 contains a pale yellowish brown (10YR 6/2) CLAYEY NANNOFOSSIL OOZE.

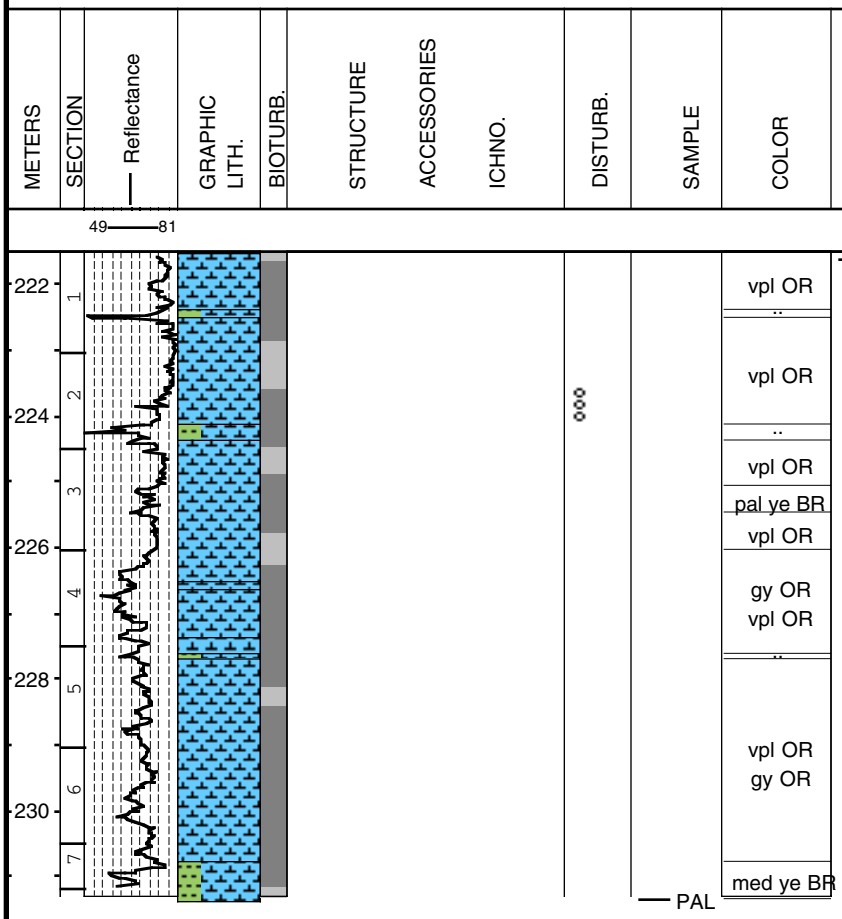
General Description:
This core exhibits a distinct downhole shift in color toward darker hues. There are also subtle oscillations in color with gradational contacts. Rare faint mottling occurs throughout.

Core Photo


Site 1209 Hole C Core 13H Cored 212.0-221.5 mbsf
METERS
SECTION
Reflectance
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
59
81
214
216
218
220
222
1
2
3
4
5
6
7
vpl OR
vpl OR
vpl OR
gy OR
vpl OR
vpl OR
gy OR
vpl OR
PAL
Major Lithology:
This core consists of very pale orange (10YR 8/2) NANNOFOSSIL OOZE with six (3-50 cm) interbeds of grayish orange (10YR 7/4) NANNOFOSSIL OOZE.
Minor Lithology:
A 20 cm-thick bed of moderate yellow brown (10YR 5/4) CLAYEY NANNOFOSSIL OOZE is present in Section 2.
General Comments:
The core exhibits subtle light-dark color oscillations. A prominent clay rich interval in section 2 has a sharp basal contact. The slightly darker intervals have bioturbated contacts. Bioturbation is moderate with locally dark and light mottling.

Core Photo

Site 1209 Hole C Core 14H Cored 221.5-231.0 mbsf



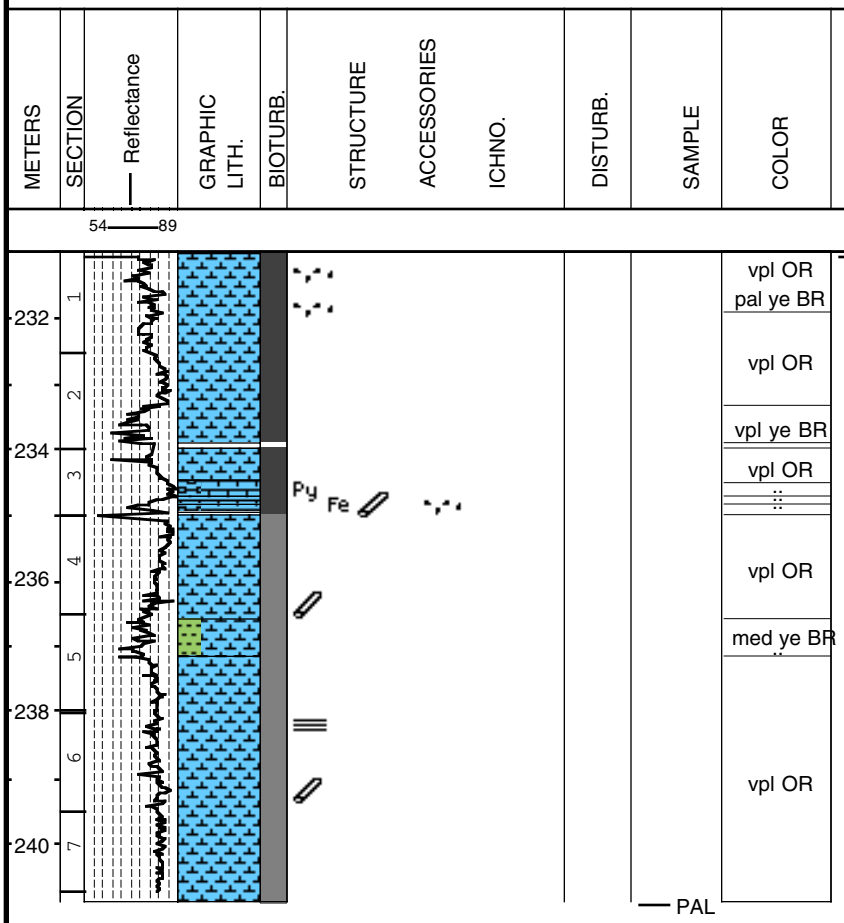
Major Lithology:
The dominant lithologies are very pale orange (10YR 8/2) to grayish orange (10YR 7/4) and pale yellowish brown (10YR 6/2) NANNOFOSSIL OOZE.

Minor Lithology:
A moderate yellowish brown (10YR 5/4) CLAYEY NANNOFOSSIL OOZE is present in Sections 1 (88-103 cm),2 (112-136 cm), 5 (10-20 cm), 7 (from 30 c and CC.

General Description:
The core shows a downhole transition from very pale orange (with darker color bands) NANNOFOSSIL OOZE in the upper three sections, to grayish orange NANNOFOSSIL OOZE to moderate yellowish brown CLAYEY NANNOFOSSIL OOZE below. Bioturbation is rare to moderate with some zoned burrows and white to brow mottles scattered throughout the core.

Core Photo

Site 1209 Hole C Core 15H Cored 231.0-240.5 mbsf

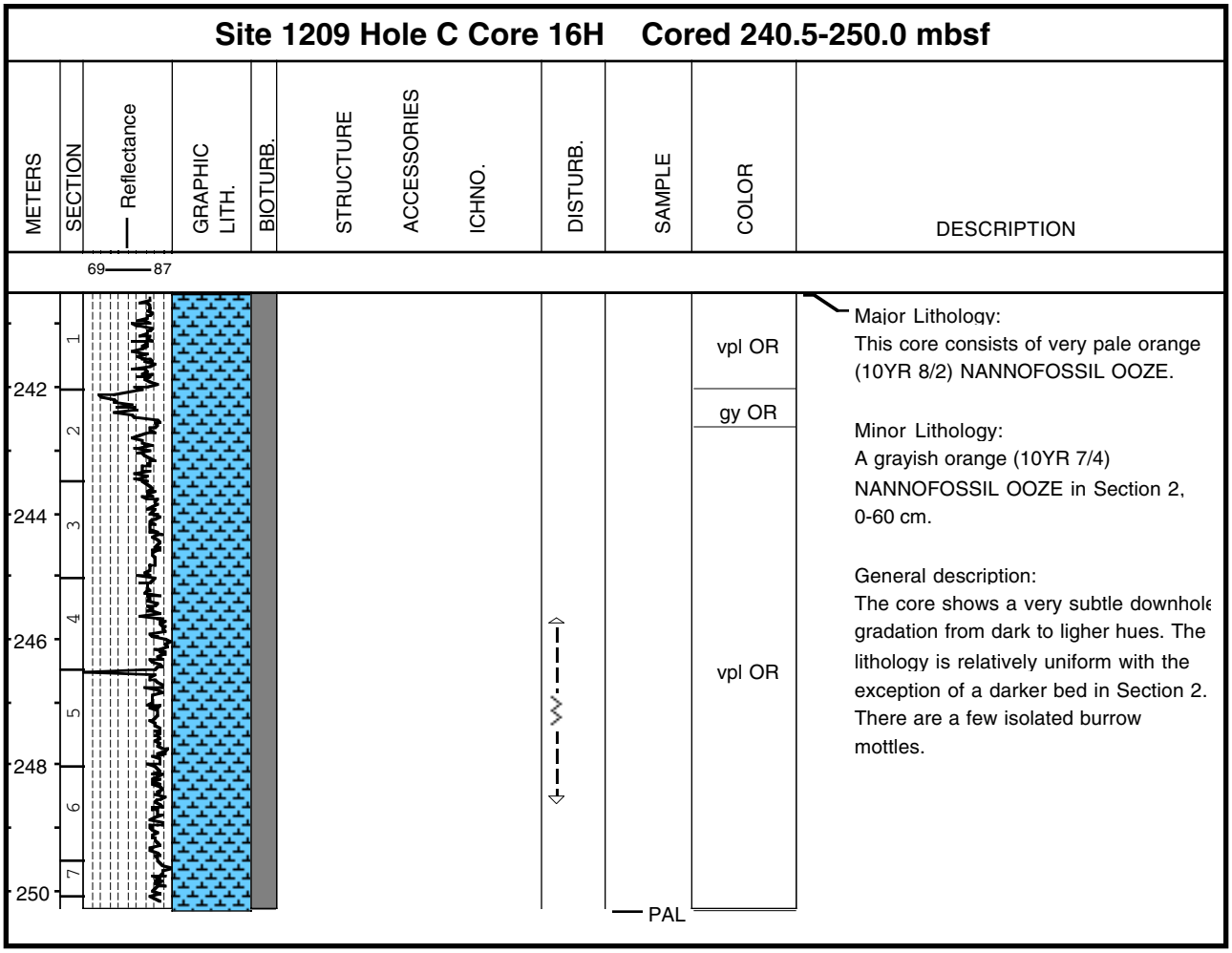


Major Lithology:
This core contains very pale orange (10YR 8/2) NANNOFOSSIL OOZE.

Minor Lithology:
In Section 3, 50 cm, the lithology consists of white (N9) FORAMINIFERAL CHALK and very pale yellowish brown (10YR 7/2) CALCISPHERE FORAMINIFERAL CHALK.

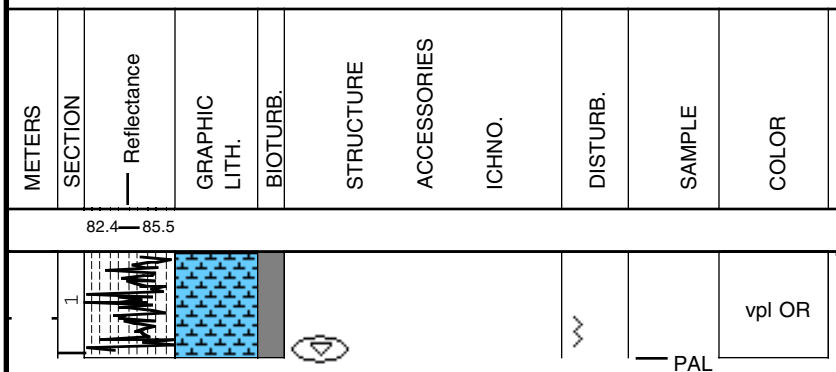
General Description:
The lithology is a relatively uniform, moderately bioturbated NANNOFOSSIL OOZE with one distinct horizon. Section 3, 50-71.5 cm, consists of FORAMINIFERAL CHALK with disseminated pyrite in lower part followed by CALCISPHERE FORAMINIFERAL CHALK with pyrite grains and foraminifers as burrow filling (at 71.5-85.5 cm). This is followed by FORAMINIFERAL CHALK (85.5-94 cm) with iron oxides and burrows that penetrate the contact to the overlying lithology.

Core Photo


Site 1209 Hole C Core 16H Cored 240.5-250.0 mbsf
METERS
SECTION
Reflectance
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
69
87
242
244
246
248
250
1
2
3
4
5
6
7
vpl OR
gy OR
vpl OR
PAL
Major Lithology:
This core consists of very pale orange (10YR 8/2) NANNOFOSSIL OOZE.
Minor Lithology:
A grayish orange (10YR 7/4) NANNOFOSSIL OOZE in Section 2, 0-60 cm.
General description:
The core shows a very subtle downhole gradation from dark to ligher hues. The lithology is relatively uniform with the exception of a darker bed in Section 2. There are a few isolated burrow mottles.

Core Photo

Site 1209 Hole C Core 17H Cored 250.0-251.5 mbsf

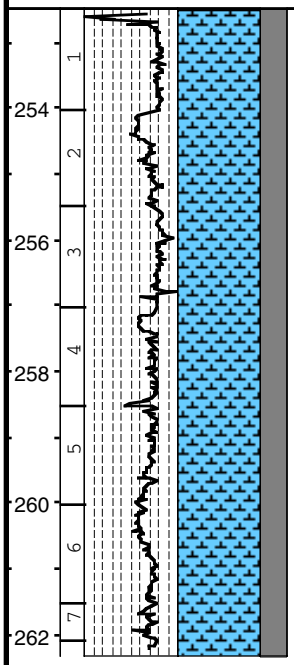


Major Lithology:
The core consists of homogeneous very pale orange (10YR 8/2) NANNOFOSSIL OOZE with slight burrow mottling.

Minor Lithology:
The working half of the core contains a fragment (5 cm) dark yellowish brown (10YR 4/2) with a very pale orange (10YR 4/2) chalky rim.

Core Photo

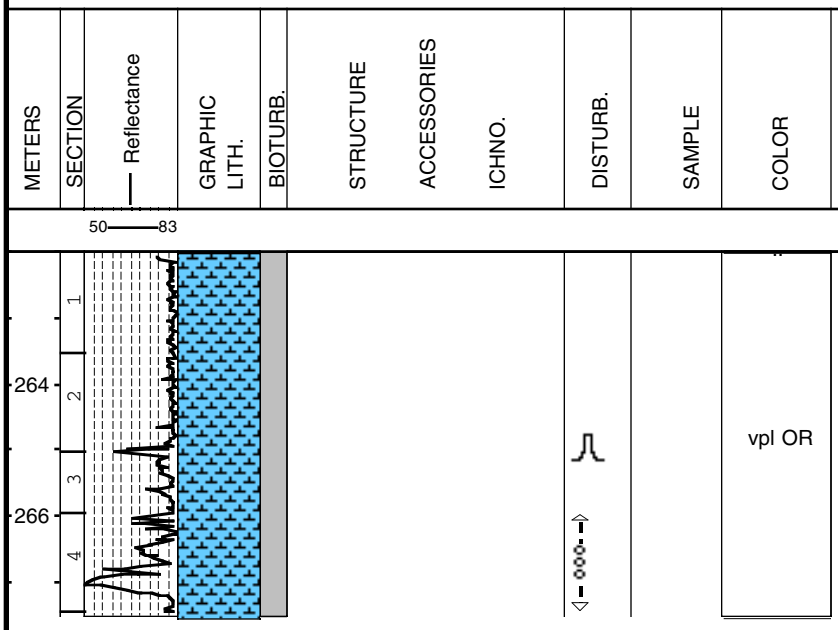
Site 1209 Hole C Core 18H Cored 252.5-262.0 mbsf



STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
					vpl OR	Major Lithology: The dominant lithology is very pale orange (10YR 8/2) NANNOFOSSIL OOZE. Minor Lithology: Dark yellowish brown (10YR 4/2) brecciated fragments of CHERT occur in the upper 18 cm of Section 1. General Description: The sediment is very uniform. Rare white (N9) large mottles are scattered throughout. Common darker bands may represent burrows.

Core Photo

Site 1209 Hole C Core 19H Cored 262.0-264.9 mbsf



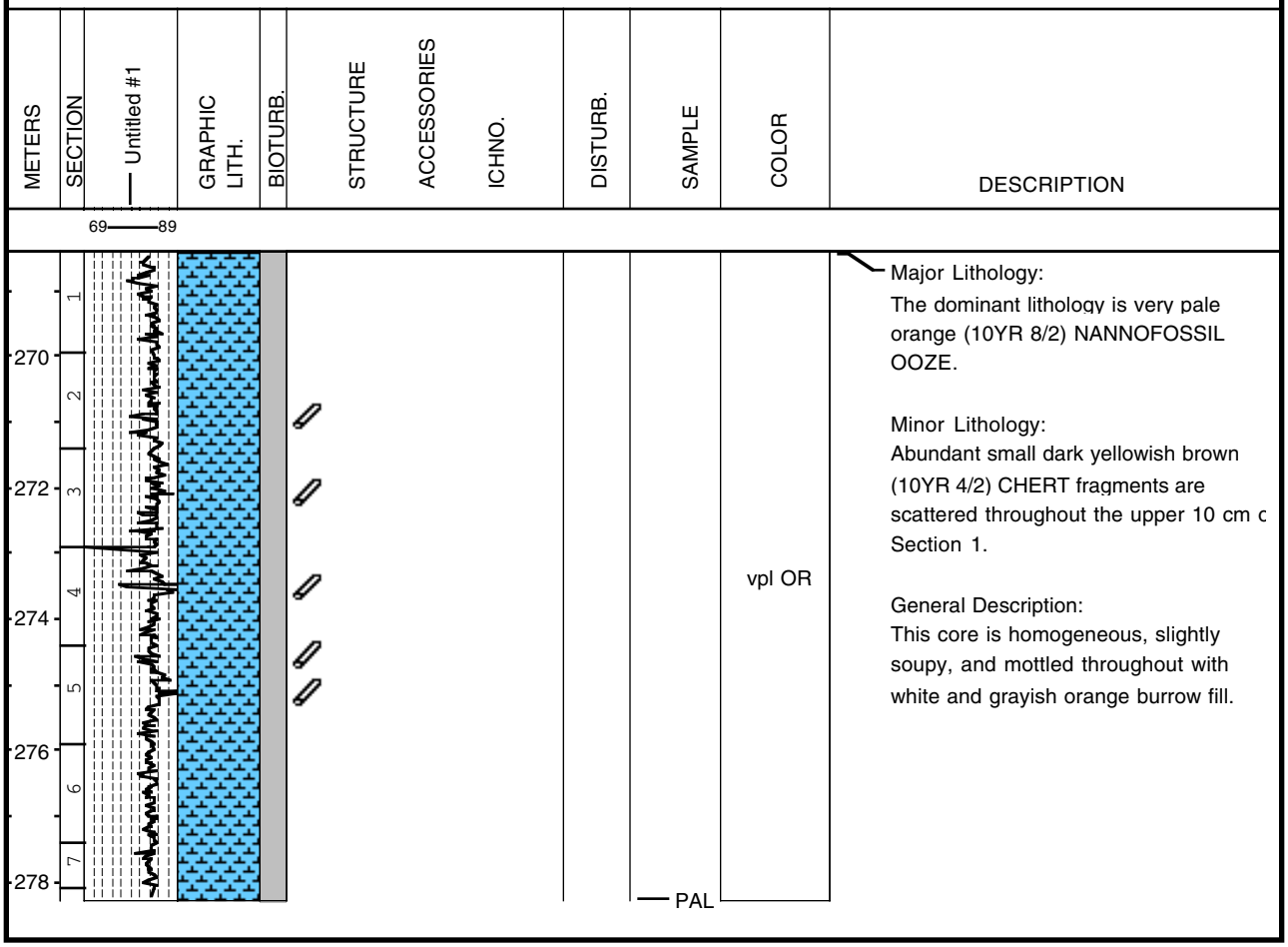
Major Lithology:
The core consists of very pale orange (10YR 8/2) NANNOFOSSIL OOZE, which is mottled throughout with white and grayish orange burrow fill.

Minor Lithology:
Dusky yellowish brown CHERT occurs in Section 1, 2-4 cm.

General Description:
Section 2, 141-152 cm is marred by flow-in, and all of Section 4 is soupy.

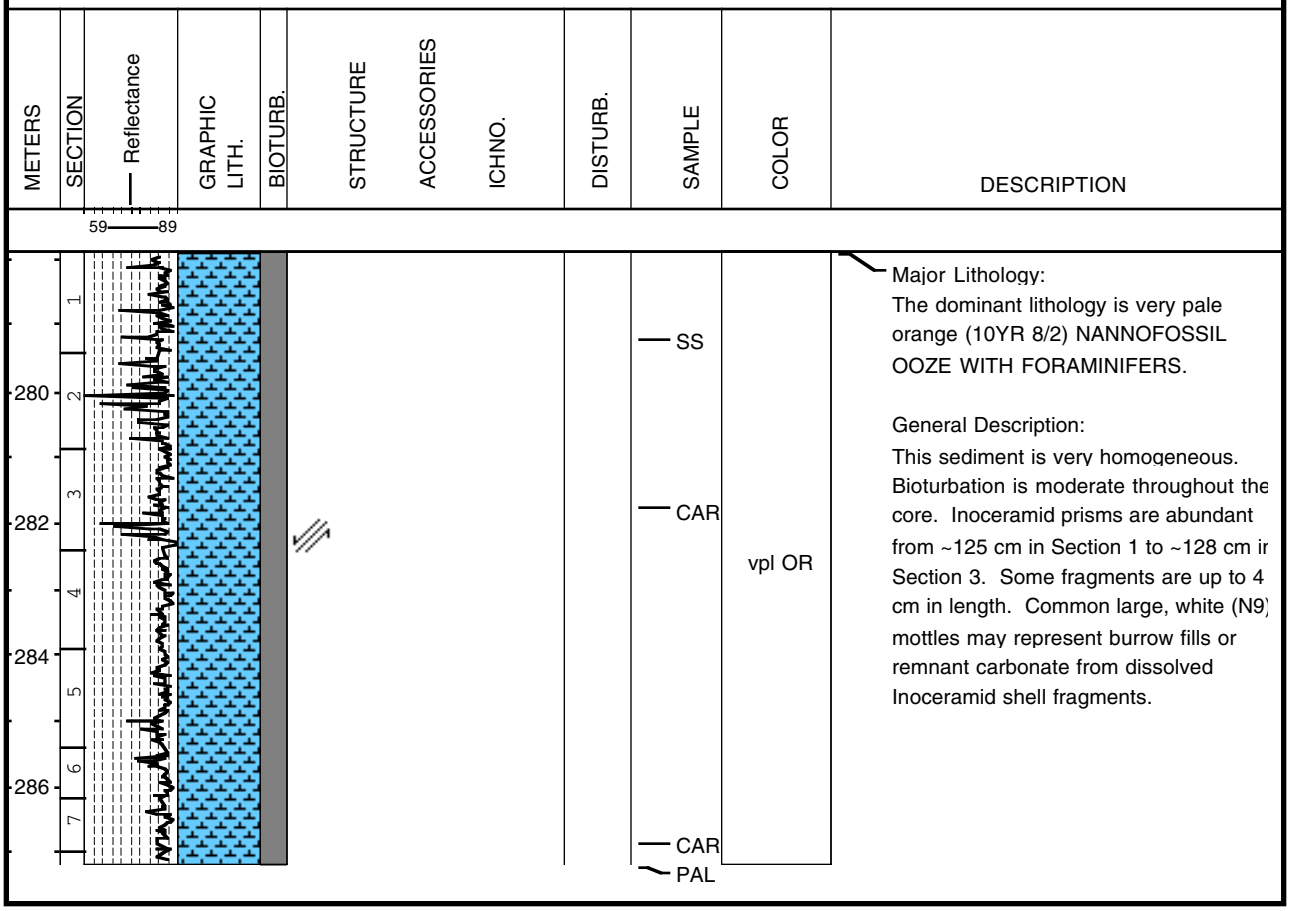
Core Photo

Site 1209 Hole C Core 20H Cored 268.4-277.9 mbsf



Core Photo

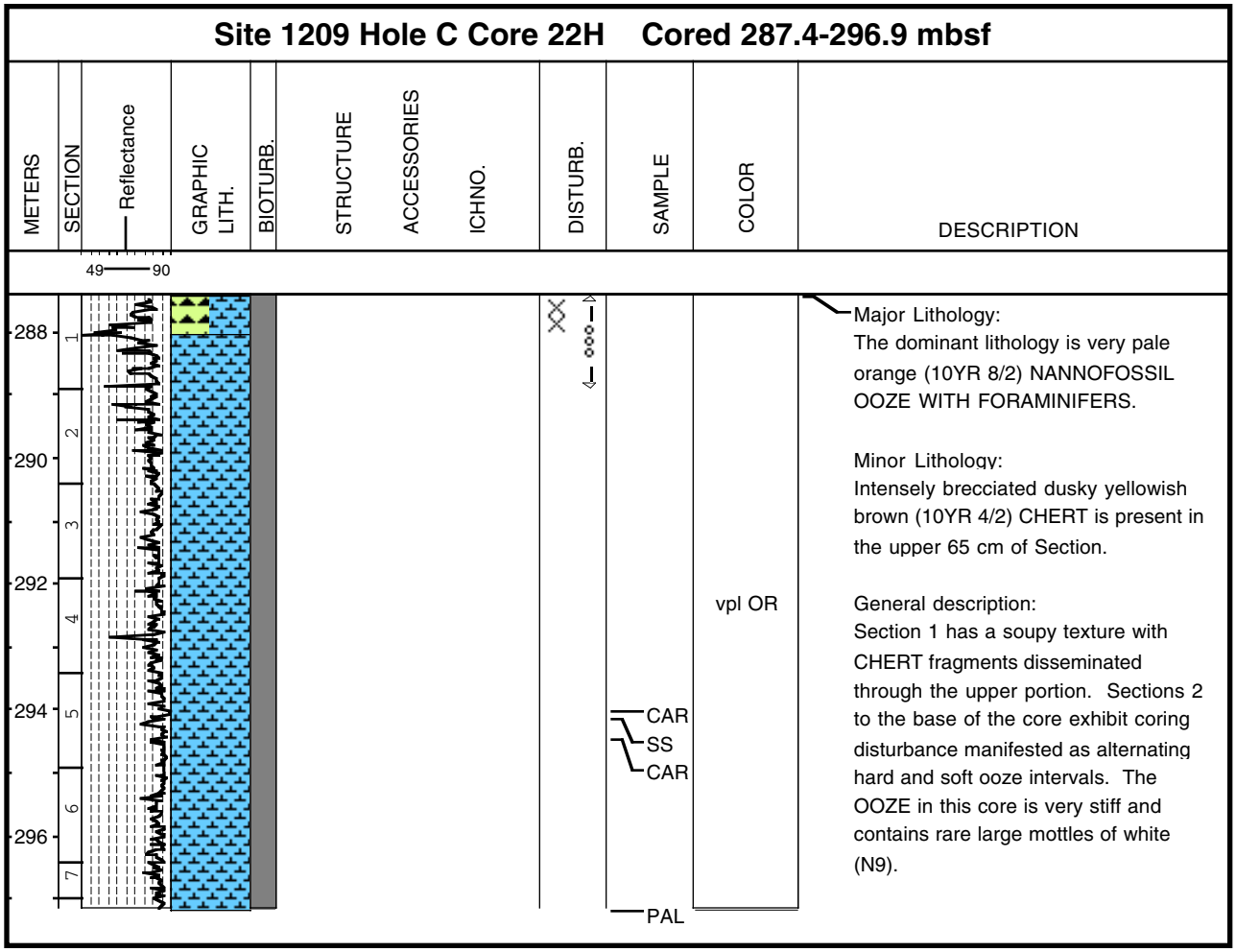
Site 1209 Hole C Core 21H Cored 277.9-287.4 mbsf



Major Lithology:
The dominant lithology is very pale orange (10YR 8/2) NANNOFOSSIL OOZE WITH FORAMINIFERS.

General Description:
This sediment is very homogeneous. Bioturbation is moderate throughout the core. Inoceramid prisms are abundant from ~125 cm in Section 1 to ~128 cm in Section 3. Some fragments are up to 4 cm in length. Common large, white (N9) mottles may represent burrow fills or remnant carbonate from dissolved Inoceramid shell fragments.

Core Photo



1209C-23X NO RECOVERY

Smear Slides

Sample						Size			Mineral																Biogenic																													Rock				
Core	Core Type	Section	Top (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Apatite	Barite	Calcite	Carbonate	Chalcedony	Chert	Clay Mineral	Detrital Carbonate	Dolomite	Fe Oxide	Feldspar	Glauconite	Inorganic Calcite	Mica	Muscovite	Opaques	Organic Calcite	Oxides	Phillipsite	Plagioclase	Pyrite	Quartz	Volcanic Glass	Zeolite	Calcispheres	Diatoms	Dinoflagellate	Fish Remains	Foraminifers	Mollusk	Nannofossils	Pollen	Radiolarians	Silicoflagellates	Sponge Spicules	Bioclasts	Organic Debris	Cement	Fecal Pellet	Organic Debris	Organic Matter	Rock Fragment
Hole A																																																								
1	H	1	38	0.38	D										30				1											2	5			1			8		52		1	*	*										
1	H	2	21	1.71	D										40				1											3	6			*			9		40		1	*	*										
1	H	4	21	4.71	D										12															*	2			1			4		80		1	*	*										
1	H	6	21	7.21	D										12															2	4			1			4		76		1	*	*										
2	H	1	139	9.59	D										21												*							2			5		70		2											
2	H	2	142	11.12	D										13						*						2										5		80													
2	H	5	119	15.39	D										34						1						1				*						3		60		1	*										
2	H	5	138	15.58	D										13						1																5		80		1	*										
3	H	1	87	18.57	D										12						*									*							7		80		1											
3	H	3	72	21.42	D										10																1	1		1			10		75		2											
3	H	4	46	22.66	D										13																						6		80		1	*										
3	H	6	67	25.87	D										12						*										*						7		80		1	*										
4	H	1	103	28.23	M										3				*		1				1				40								1		53		1	*										
4	H	3	94	31.14	M										1				*		2				8						4			*			1		79		5		*									
4	H	3	96	31.16	D										3										2						*			1			7		84		2	1										
4	H	4	116	32.86	D										1				*						1						6			*			3		85		4											
4	H	7	30	36.5	M										25										5												*		70													
5	H	1	73	37.43	D										11									1						1	*			3			4		75		2	2	1									
5	H	3	73	40.43	D										16									*						*	*			8			3		65		4	2	2									
6	H	5	126	53.46	D										8																						8		67		12	4	1									
6	H	5	139	53.59	D										12																						5		58		20		5									
6	H	6	33	54.03	D										12																						5		78		5											
7	H	2	71	57.91	D							3			15														*	*	*			7			5		64		3	1	2									
7	H	3	71	59.41	D							2			9														*	*	*			3			3		80		1	1	1									
8	H	5	137	72.57	D										6																			*			3		91													
8	H	6	74	73.44	D										22									*						1	1			1			4		70		1											
9	H	1	13	74.83	D										37						1									1		*					1		60		*											
9	H	1	107	75.77	D										27																						2		70		1											
10	H	1	75	84.95	D										20				1		1				4						2								70		2	*										
10	H	4	100	89.7	D										20						2				3						1								74		*											
10	H	5	60	90.8	D										5						1				1												7		86													
11	H	5	70	100.4	D										64				3		1				2												*		30													
12	H	2	130	106	D										19						1			*			*										5		75													
12	H	4	45	108.15	D										76			1	*		3			5						10									5													
12	H	4	90	108.6	D										22			*									3										*		75													
12	H	6	130	112	D										19			*			*						*			*							1		80													
13	H	2	75	114.95	D										10															*							5		85													
13	H	6	75	120.95	D										7									*													3		90													
14	H	1	43	122.63	D										9														*	*							3		88													
14	H	4	43	127.13	D										9														1								2		88													
14	H	6	54	130.24	D										17			*						*													3		80													
15	H	1	70	132.4	D										12			*						1						*							5		82													
15	H	7	19	140.39	M										30			2									4										4		60													
16	H	5	36	146.85	D										5																	*					8		87													
16	H	6	83	148.82	D										3																						15		82													
16	H	7	24	149.23	D										3																	*					12		85													
17	H	2	72	152.92	D										14						2																1		83													
17	H	5	32	157.02	D										18						3																1		78													

Smear Slides																																																			
Sample						Size			Mineral															Biogenic																								Rock				
Core	Core Type	Section	Top (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Apatite	Barite	Calcite	Carbonate	Chalcedony	Chert	Clay Mineral	Detrital Carbonate	Dolomite	Fe Oxide	Feldspar	Glauconite	Inorganic Calcite	Mica	Muscovite	Opaques	Organic Calcite	Oxides	Phillipsite	Plagioclase	Pyrite	Quartz	Volcanic Glass	Zeolite	Calcispheres	Diatoms	Dinoflagellate	Fish Remains	Foraminifers	Mollusk	Nannofossils	Pollen	Radiolarians	Silicoflagellates	Sponge Spicules	Bioclasts	Organic Debris	Cement	Fecal Pellet	Organic Debris	Organic Matter	Rock Fragment
Hole A (Continued)																																																			
17	H	6	73	158.93	M										16						3																3		78											
18	H	2	25	161.95	M							52																									3		40											
18	H	4	43	165.13	M										75			1				*																	25											
19	H	2	140	172.6	D							2			5																						1		92											
20	H	1	96	180.16	D										25																								75	*										
20	H	2	83	181.53	D										25																						*		75	*										
21	H	1	72	189.42	D										8			*			5			1													6		80											
21	H	3	60	192.3	D													*			5			*	8												7		80											
21	H	7	25	197.95	M										5			*			15			*													5		75											
21	H	7	26	197.96	M										5			10			5			*													5		75											
21	H	7	31	198.01	D										5			*			5			*													5		85											
22	H	1	67	198.87	D										5						20																		75											
22	H	6	72	206.42	D										5						3																2		90											
23	H	1	68	208.38	D			8																*						*							9		91											
23	H	3	135	212.05	M										40			*			2			2						*							4		52											
23	H	5	45	214.15	D										12			*																			7		80											
24	H	1	45	217.65	D							3			9																						1		86											
24	H	3	47	220.67	D							4			12																						*		84											
24	H	5	12	223.32	M							5			35			4												3							*		52											
25	H	1	116	227.86	D										3						2			*					1	*							2		92											
25	H	3	112	230.82	M										10									5													5		80											
25	H	4	68	231.88	D										10									5													7		78											
25	H	6	109	235.29	M										3									2	6												12		77											
25	H	6	80	235	D										10									2													10		78											
26	H	1	90	237.1	D							3			8																						*		89											
27	X	1	71	246.41	D										5																						*		95											
27	X	3	71	249.41	D							5			8																						1		86											
27	X	3	109	249.79	M										1						5																3		91											
28	X	3	71	254.61	D										3																						10		87											
28	X	4	71	256.11	D										9																						10		80				1							
Hole B																																																			
26	H	1	57	233.67	M										5						5																		90											
26	H	1	79	233.89	D										15						10																*		75											
31	H	2	72	282.82	D							2			3																						2		93											
31	H	5	72	287.32	D							2			2																						*		96											
Hole C																																																			
20	H	1	100	269.4	D							5												*													5		90											
21	H	1	128	279.18	D										*				*						2												15		83											
22	H	5	70	294.1	D																*				2												2		96											