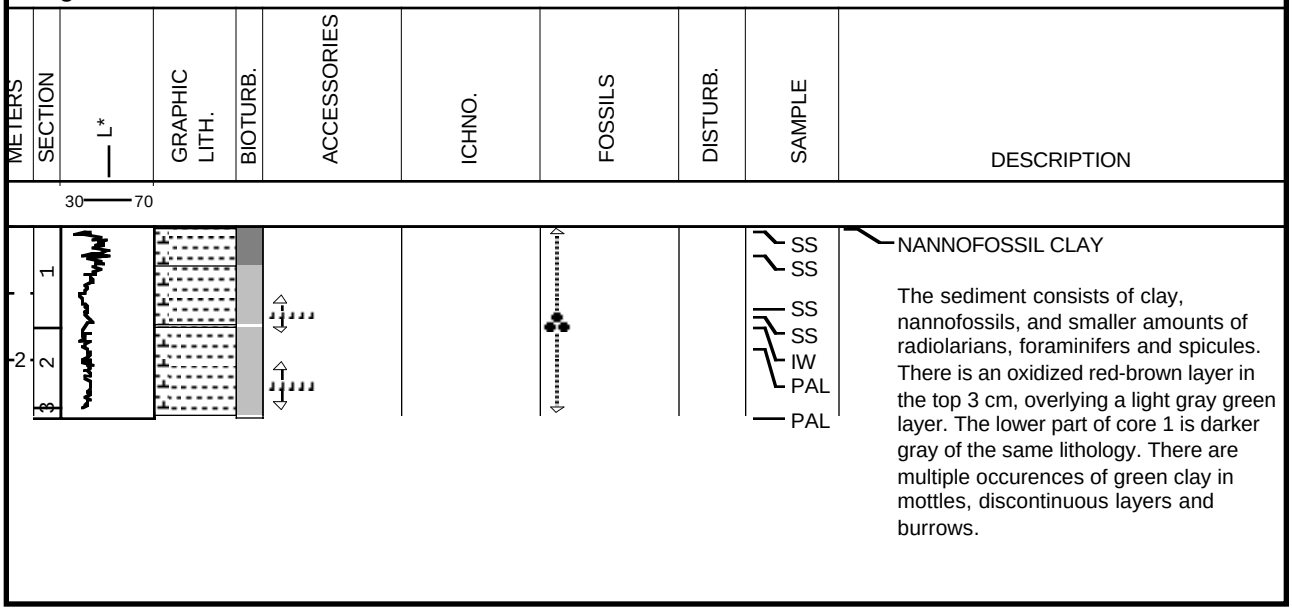
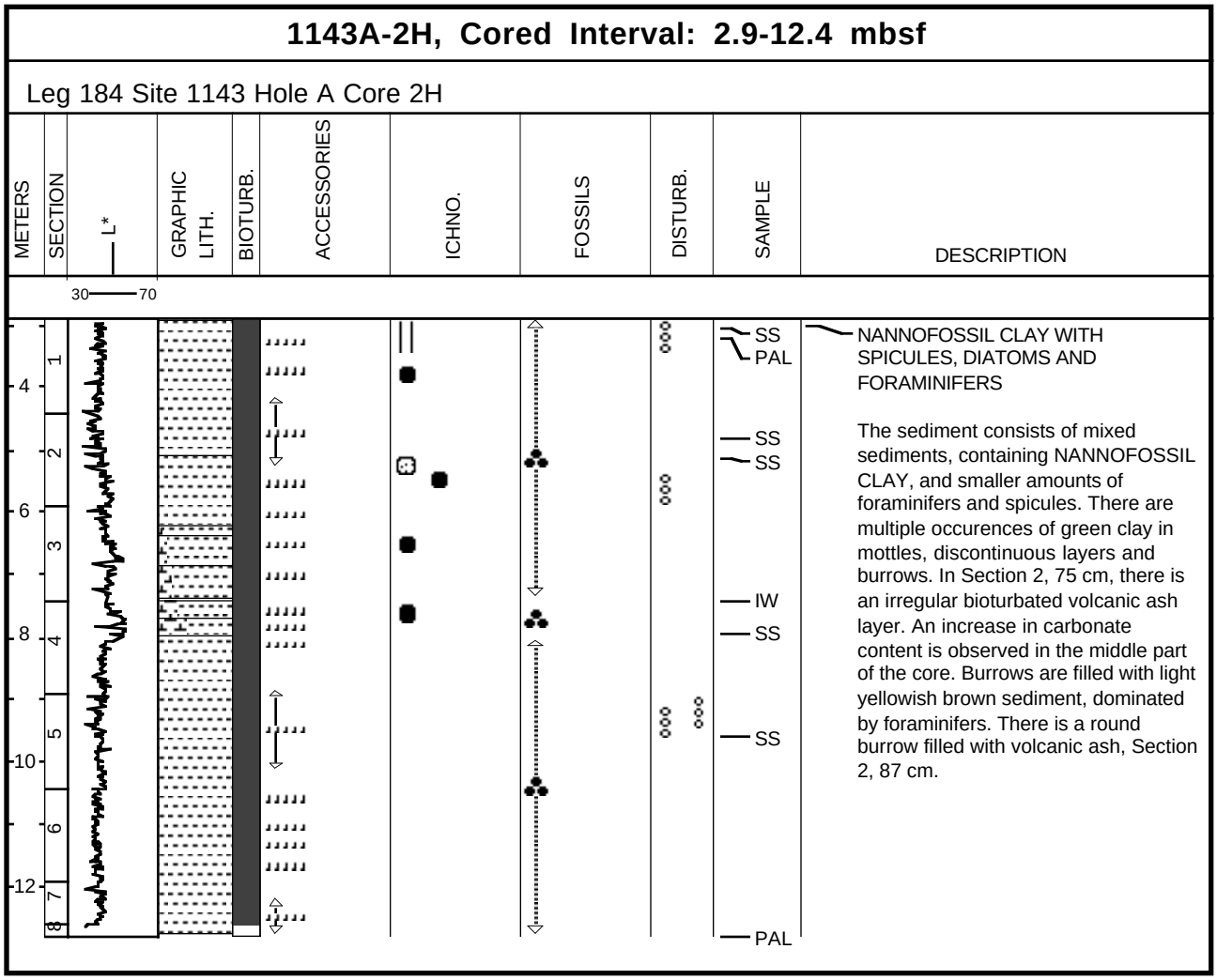
Core Photo

1143A-1H, Cored Interval: 0.0-2.9 mbsf

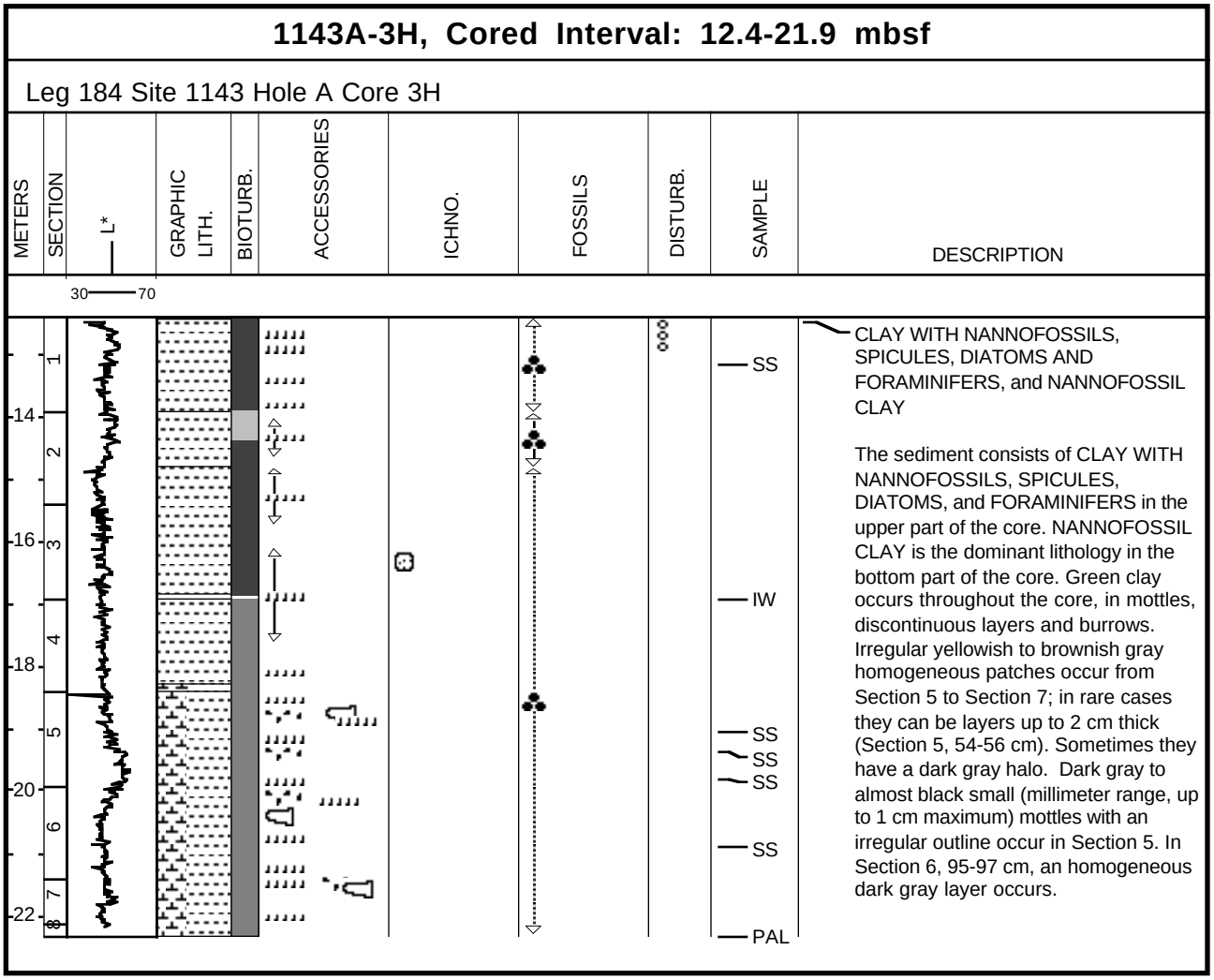
Leg 184 Site 1143 Hole A Core 1H



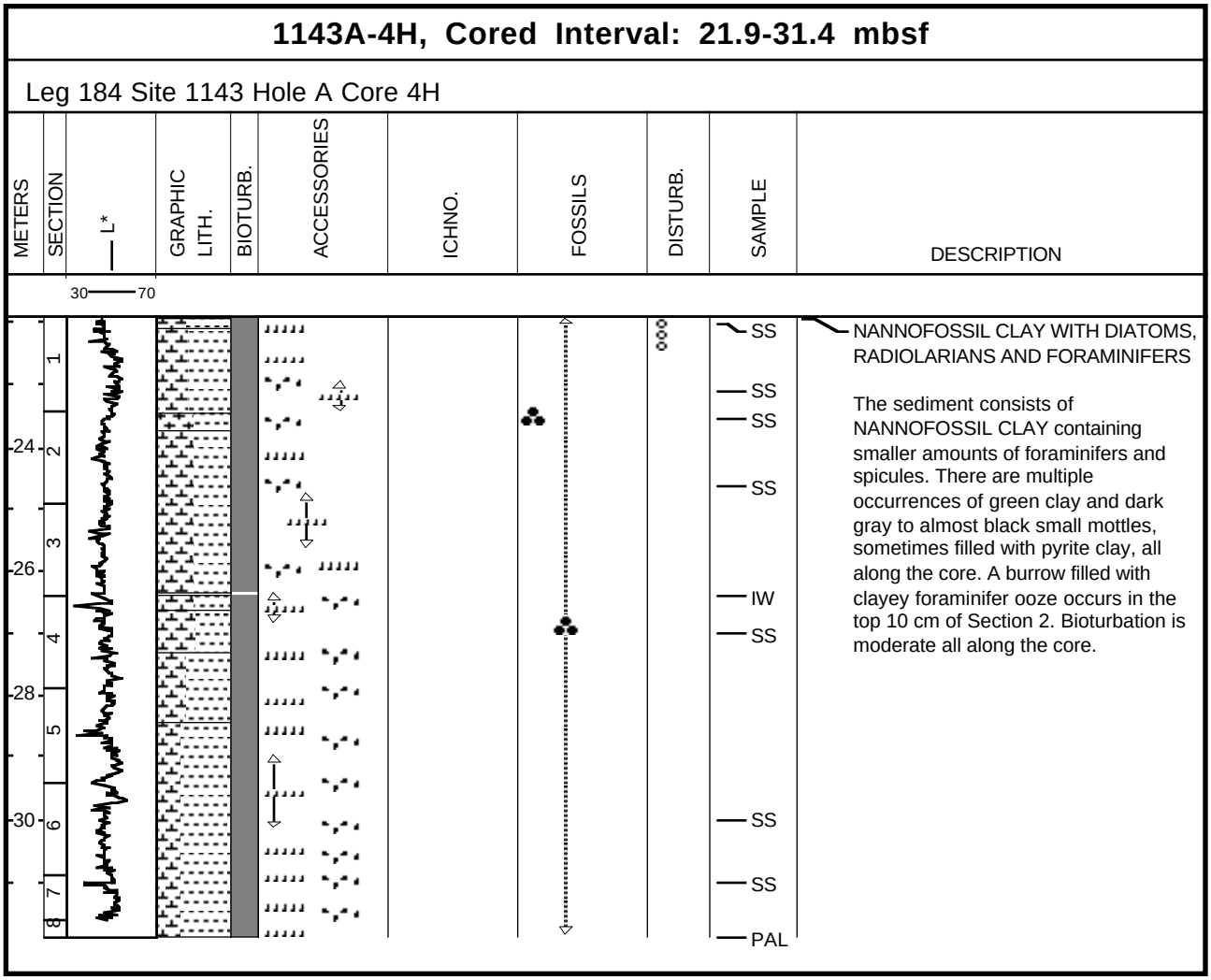
Core Photo


1143A-2H, Cored Interval: 2.9-12.4 mbsf
Leg 184 Site 1143 Hole A Core 2H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
4
6
8
10
12
1
2
3
4
5
6
7
SS
PAL
SS
SS
IW
SS
SS
PAL
NANNOFOSSIL CLAY WITH SPICULES, DIATOMS AND FORAMINIFERS
The sediment consists of mixed sediments, containing NANNOFOSSIL CLAY, and smaller amounts of foraminifers and spicules. There are multiple occurences of green clay in mottles, discontinuous layers and burrows. In Section 2, 75 cm, there is an irregular bioturbated volcanic ash layer. An increase in carbonate content is observed in the middle part of the core. Burrows are filled with light yellowish brown sediment, dominated by foraminifers. There is a round burrow filled with volcanic ash, Section 2, 87 cm.

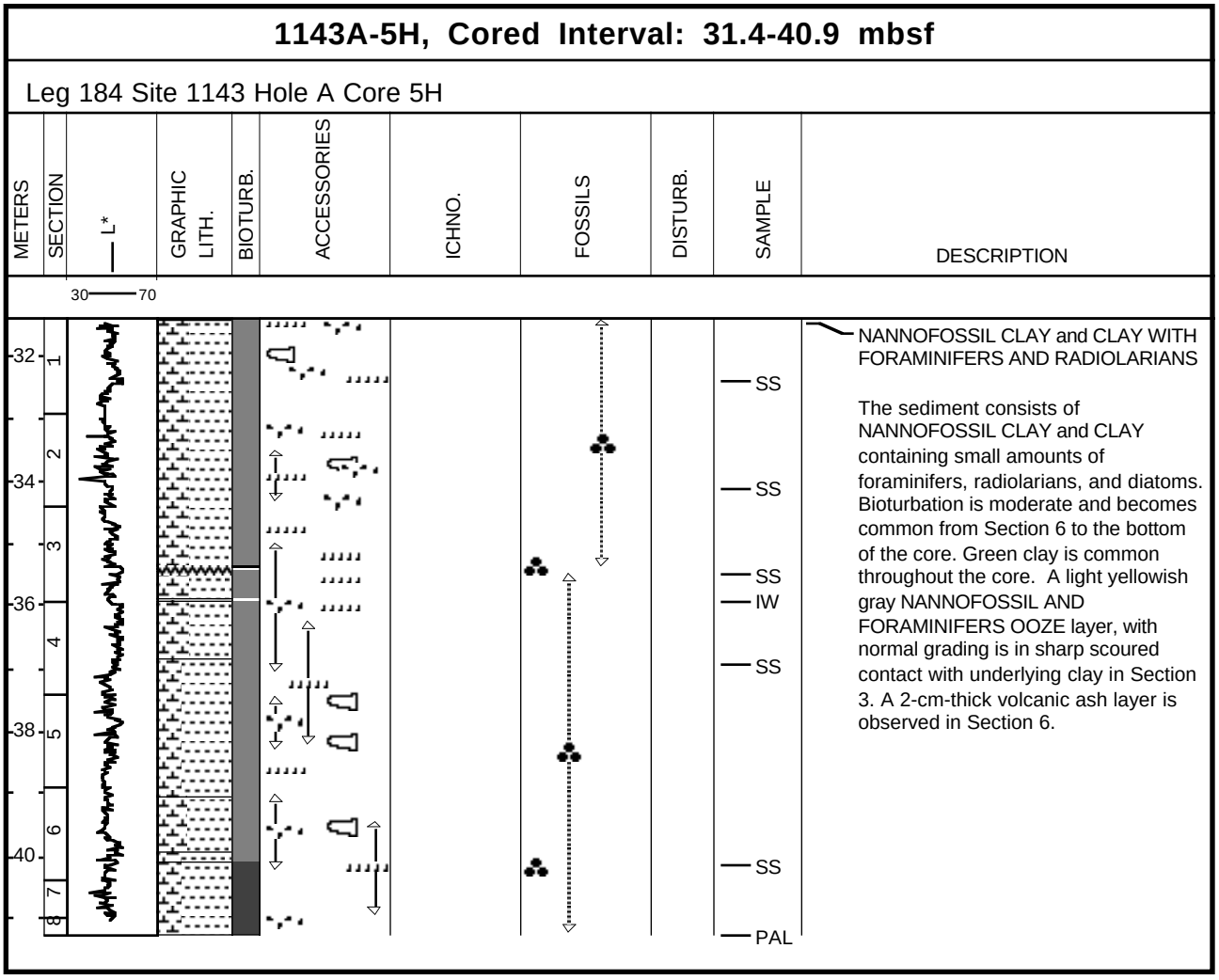
Core Photo


1143A-3H, Cored Interval: 12.4-21.9 mbsf
Leg 184 Site 1143 Hole A Core 3H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
14
16
18
20
22
1
2
3
4
5
6
7
8
SS
IW
SS
SS
SS
SS
PAL
CLAY WITH NANNOFOSSILS, SPICULES, DIATOMS AND FORAMINIFERS, and NANNOFOSSIL CLAY
The sediment consists of CLAY WITH NANNOFOSSILS, SPICULES, DIATOMS, and FORAMINIFERS in the upper part of the core. NANNOFOSSIL CLAY is the dominant lithology in the bottom part of the core. Green clay occurs throughout the core, in mottles, discontinuous layers and burrows. Irregular yellowish to brownish gray homogeneous patches occur from Section 5 to Section 7; in rare cases they can be layers up to 2 cm thick (Section 5, 54-56 cm). Sometimes they have a dark gray halo. Dark gray to almost black small (millimeter range, up to 1 cm maximum) mottles with an irregular outline occur in Section 5. In Section 6, 95-97 cm, an homogeneous dark gray layer occurs.

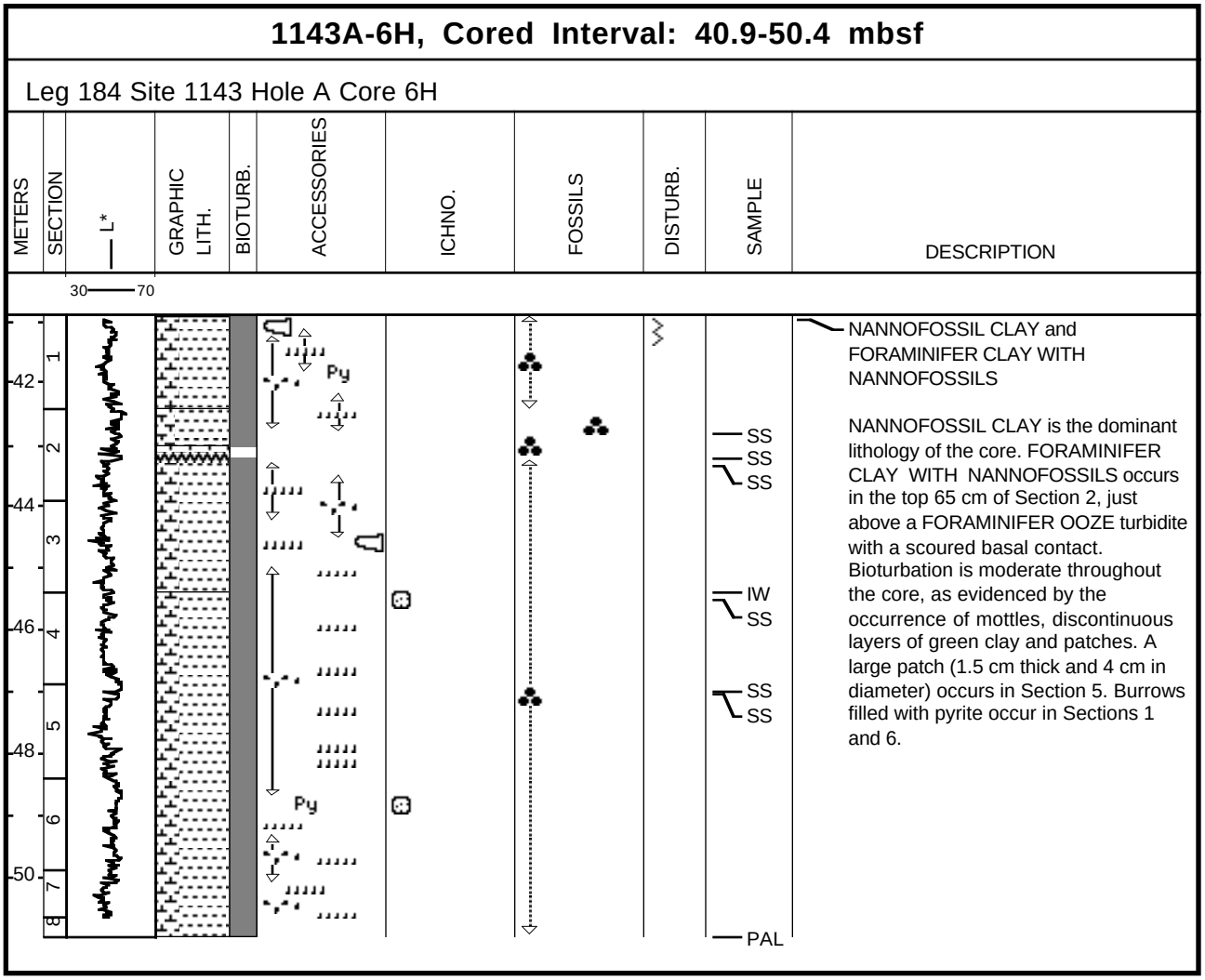
Core Photo


1143A-4H, Cored Interval: 21.9-31.4 mbsf
Leg 184 Site 1143 Hole A Core 4H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
24
26
28
30
1
2
3
4
5
6
7
SS
SS
SS
SS
IW
SS
SS
SS
PAL
NANNOFOSSIL CLAY WITH DIATOMS, RADIOLARIANS AND FORAMINIFERS
The sediment consists of NANNOFOSSIL CLAY containing smaller amounts of foraminifers and spicules. There are multiple occurrences of green clay and dark gray to almost black small mottles, sometimes filled with pyrite clay, all along the core. A burrow filled with clayey foraminifer ooze occurs in the top 10 cm of Section 2. Bioturbation is moderate all along the core.

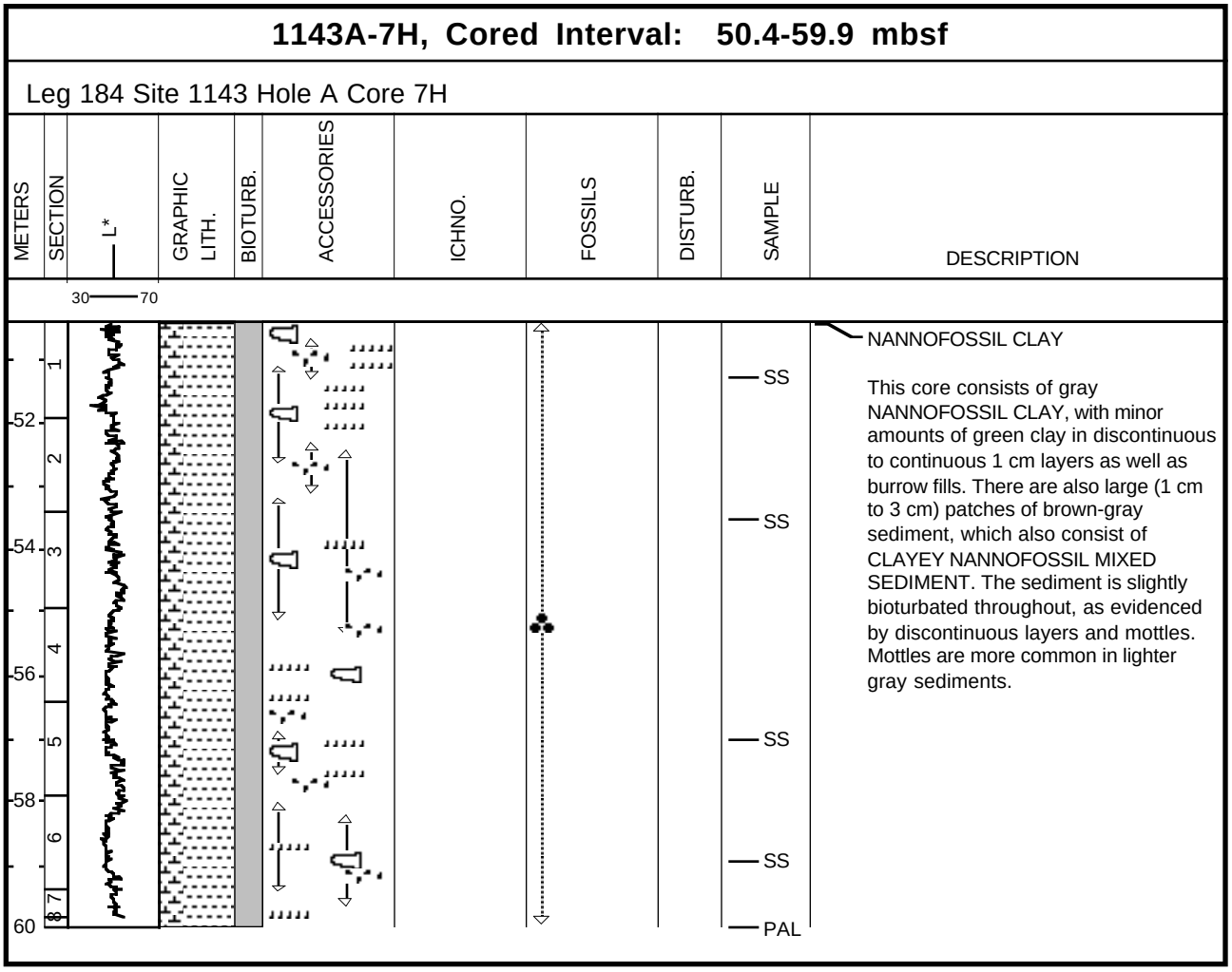
Core Photo


1143A-5H, Cored Interval: 31.4-40.9 mbsf
Leg 184 Site 1143 Hole A Core 5H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
32
34
36
38
40
1
2
3
4
5
6
7
CC
SS
SS
SS
IW
SS
SS
PAL
NANNOFOSSIL CLAY and CLAY WITH FORAMINIFERS AND RADIOLARIANS
The sediment consists of NANNOFOSSIL CLAY and CLAY containing small amounts of foraminifers, radiolarians, and diatoms. Bioturbation is moderate and becomes common from Section 6 to the bottom of the core. Green clay is common throughout the core. A light yellowish gray NANNOFOSSIL AND FORAMINIFERS OOZE layer, with normal grading is in sharp scoured contact with underlying clay in Section 3. A 2-cm-thick volcanic ash layer is observed in Section 6.

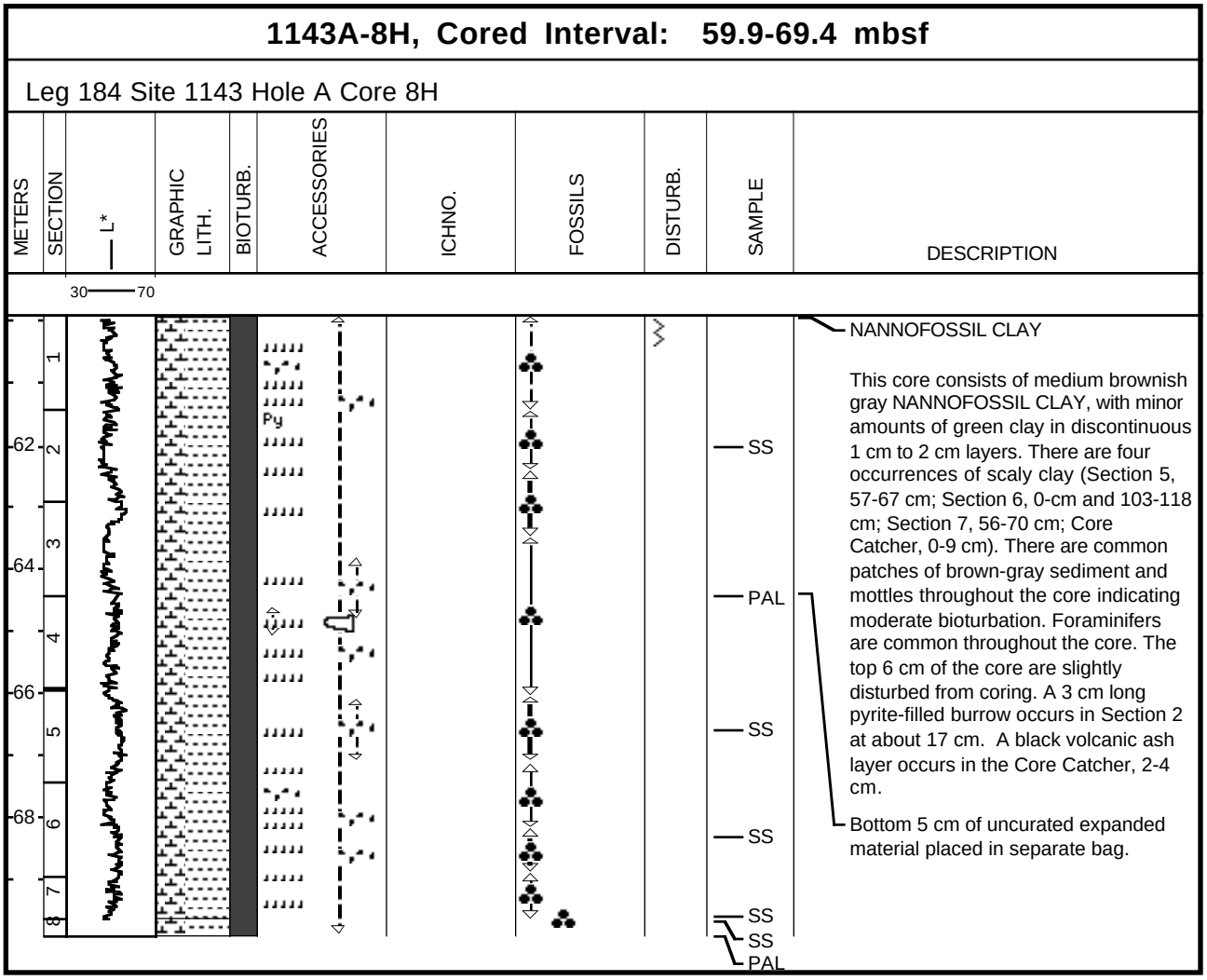
Core Photo


1143A-6H, Cored Interval: 40.9-50.4 mbsf
Leg 184 Site 1143 Hole A Core 6H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
42
44
46
48
50
1
2
3
4
5
6
7
Py
Py
SS
SS
SS
IW
SS
SS
SS
PAL
NANNOFOSSIL CLAY and FORAMINIFER CLAY WITH NANNOFOSSILS
NANNOFOSSIL CLAY is the dominant lithology of the core. FORAMINIFER CLAY WITH NANNOFOSSILS occurs in the top 65 cm of Section 2, just above a FORAMINIFER OOZE turbidite with a scoured basal contact. Bioturbation is moderate throughout the core, as evidenced by the occurrence of mottles, discontinuous layers of green clay and patches. A large patch (1.5 cm thick and 4 cm in diameter) occurs in Section 5. Burrows filled with pyrite occur in Sections 1 and 6.

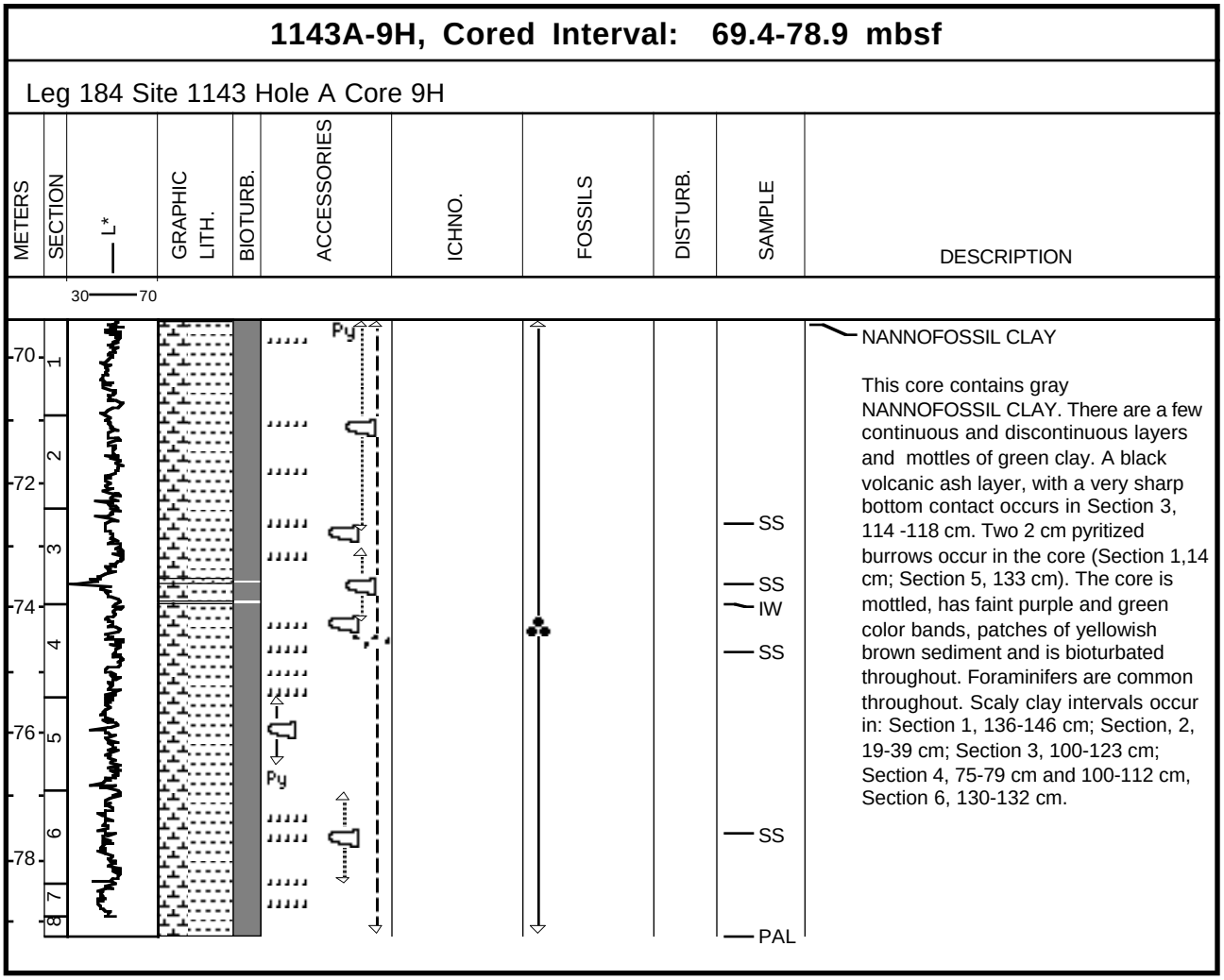
Core Photo


1143A-7H, Cored Interval: 50.4-59.9 mbsf
Leg 184 Site 1143 Hole A Core 7H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
52
54
56
58
60
1
2
3
4
5
6
7
SS
SS
SS
SS
PAL
NANNOFOSSIL CLAY
This core consists of gray NANNOFOSSIL CLAY, with minor amounts of green clay in discontinuous to continuous 1 cm layers as well as burrow fills. There are also large (1 cm to 3 cm) patches of brown-gray sediment, which also consist of CLAYEY NANNOFOSSIL MIXED SEDIMENT. The sediment is slightly bioturbated throughout, as evidenced by discontinuous layers and mottles. Mottles are more common in lighter gray sediments.

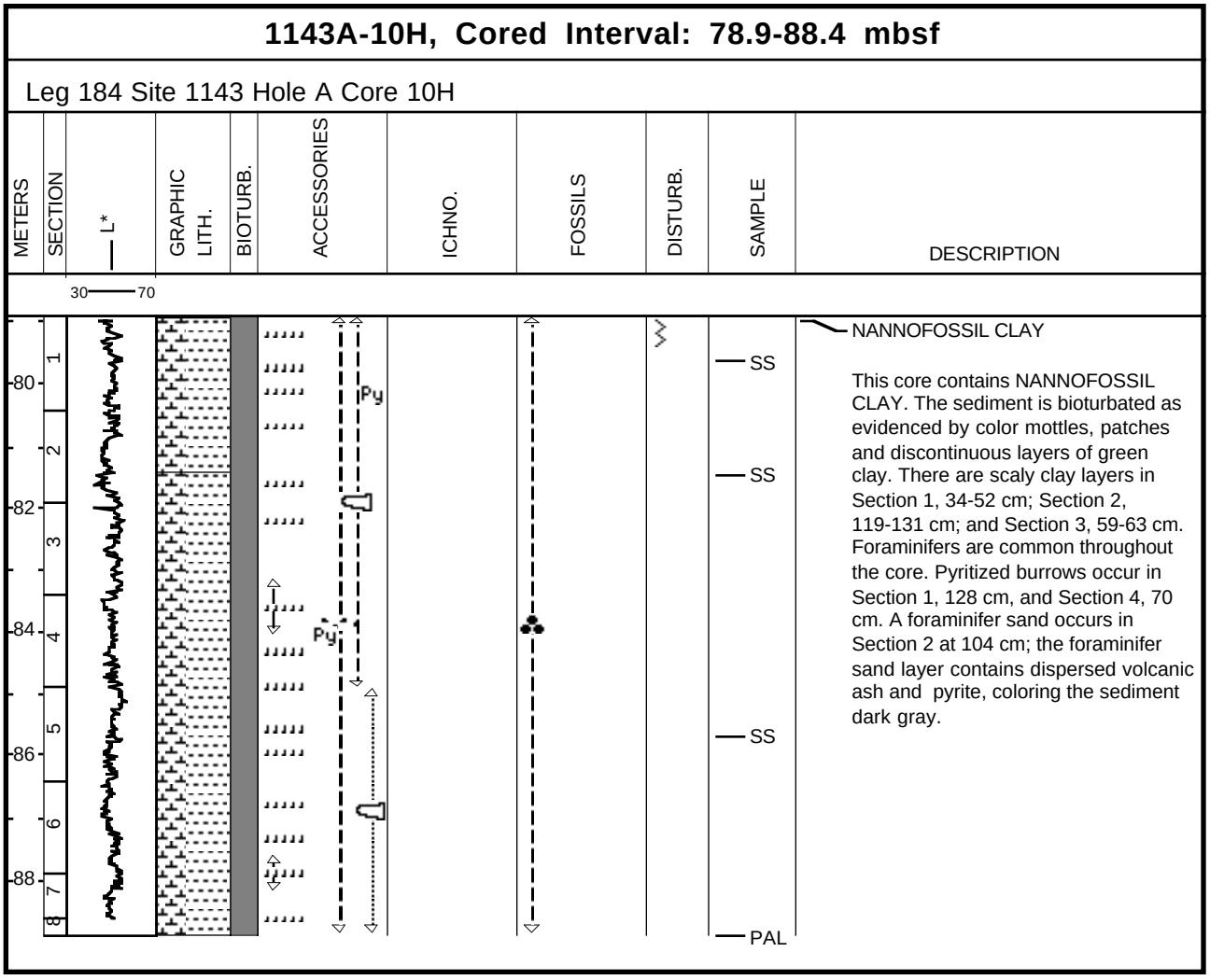
Core Photo


1143A-8H, Cored Interval: 59.9-69.4 mbsf
Leg 184 Site 1143 Hole A Core 8H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
62
64
66
68
1
2
3
4
5
6
7
Py
SS
PAL
SS
SS
SS
SS
PAL
NANNOFOSSIL CLAY
This core consists of medium brownish gray NANNOFOSSIL CLAY, with minor amounts of green clay in discontinuous 1 cm to 2 cm layers. There are four occurrences of scaly clay (Section 5, 57-67 cm; Section 6, 0-cm and 103-118 cm; Section 7, 56-70 cm; Core Catcher, 0-9 cm). There are common patches of brown-gray sediment and mottles throughout the core indicating moderate bioturbation. Foraminifers are common throughout the core. The top 6 cm of the core are slightly disturbed from coring. A 3 cm long pyrite-filled burrow occurs in Section 2 at about 17 cm. A black volcanic ash layer occurs in the Core Catcher, 2-4 cm.
Bottom 5 cm of uncurated expanded material placed in separate bag.

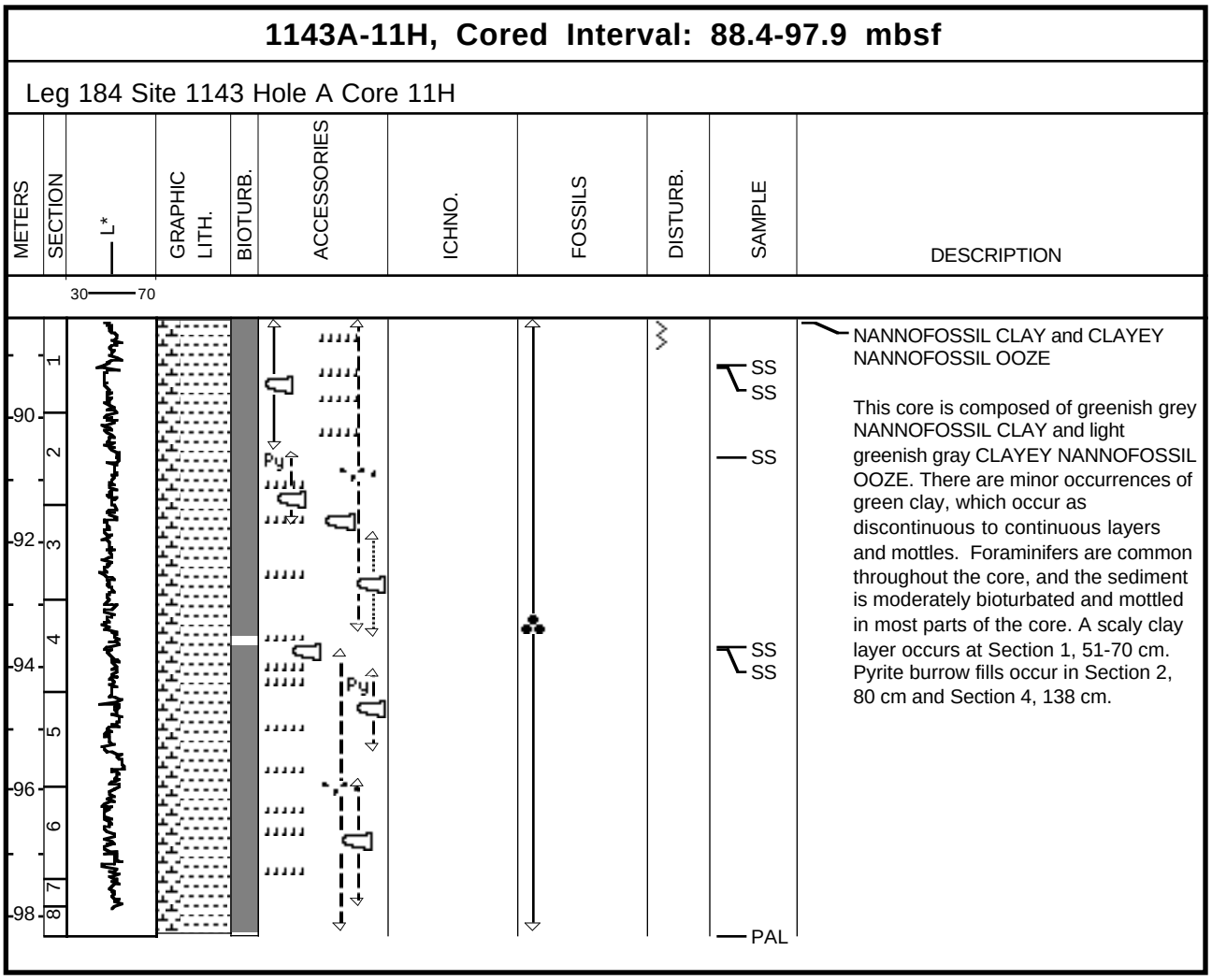
Core Photo


1143A-9H, Cored Interval: 69.4-78.9 mbsf
Leg 184 Site 1143 Hole A Core 9H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
70
72
74
76
78
1
2
3
4
5
6
7
Py
Py
SS
SS
IW
SS
SS
PAL
NANNOFOSSIL CLAY
This core contains gray NANNOFOSSIL CLAY. There are a few continuous and discontinuous layers and mottles of green clay. A black volcanic ash layer, with a very sharp bottom contact occurs in Section 3, 114 -118 cm. Two 2 cm pyritized burrows occur in the core (Section 1,14 cm; Section 5, 133 cm). The core is mottled, has faint purple and green color bands, patches of yellowish brown sediment and is bioturbated throughout. Foraminifers are common throughout. Scaly clay intervals occur in: Section 1, 136-146 cm; Section, 2, 19-39 cm; Section 3, 100-123 cm; Section 4, 75-79 cm and 100-112 cm, Section 6, 130-132 cm.

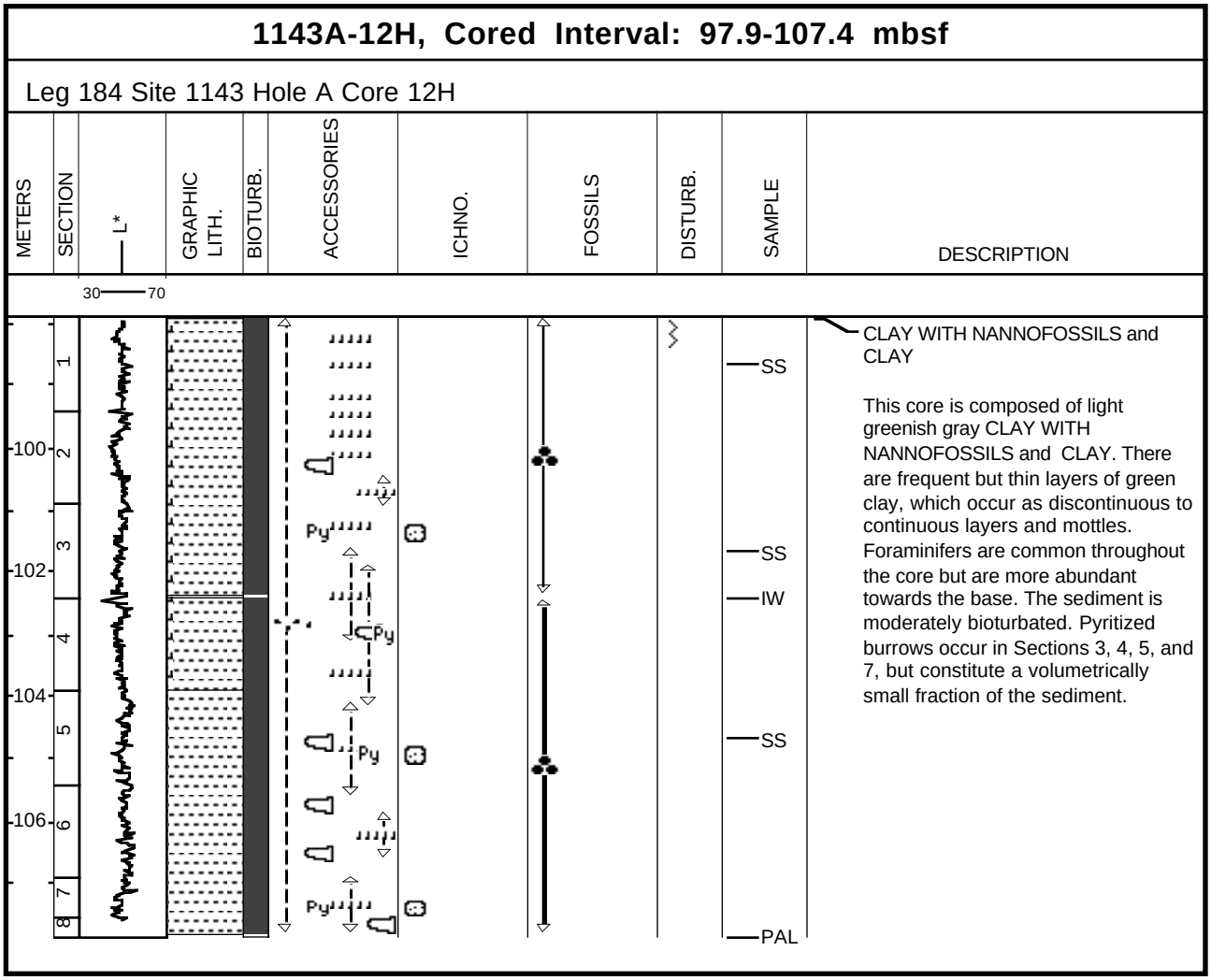
Core Photo


1143A-10H, Cored Interval: 78.9-88.4 mbsf
Leg 184 Site 1143 Hole A Core 10H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
80
82
84
86
88
1
2
3
4
5
6
7
Py
Py
SS
SS
SS
PAL
NANNOFOSSIL CLAY
This core contains NANNOFOSSIL CLAY. The sediment is bioturbated as evidenced by color mottles, patches and discontinuous layers of green clay. There are scaly clay layers in Section 1, 34-52 cm; Section 2, 119-131 cm; and Section 3, 59-63 cm. Foraminifers are common throughout the core. Pyritized burrows occur in Section 1, 128 cm, and Section 4, 70 cm. A foraminifer sand occurs in Section 2 at 104 cm; the foraminifer sand layer contains dispersed volcanic ash and pyrite, coloring the sediment dark gray.

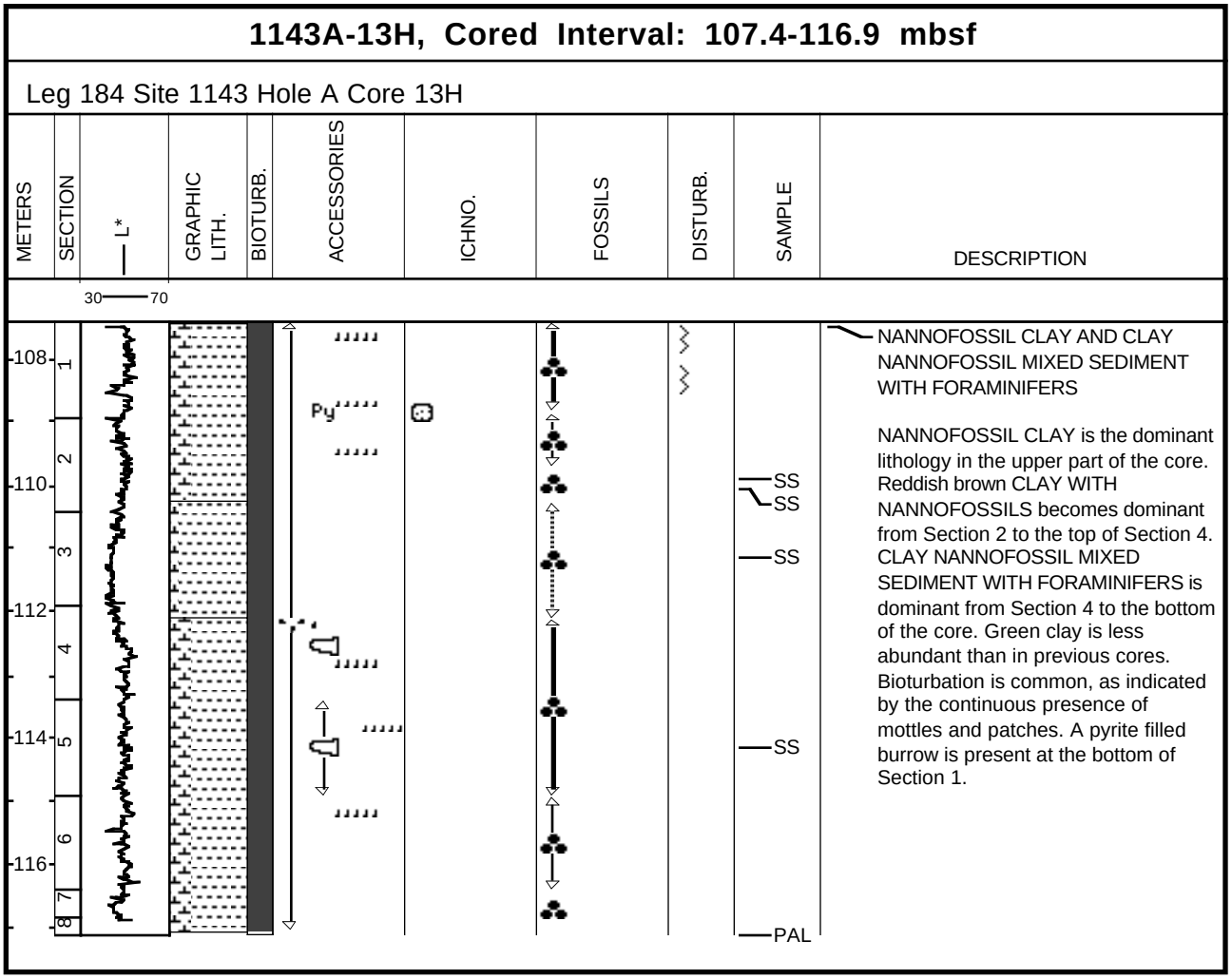
Core Photo


1143A-11H, Cored Interval: 88.4-97.9 mbsf
Leg 184 Site 1143 Hole A Core 11H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
90
92
94
96
98
1
2
3
4
5
6
7
8
Py
Py
SS
SS
SS
SS
SS
PAL
NANNOFOSSIL CLAY and CLAYEY NANNOFOSSIL OOZE
This core is composed of greenish grey NANNOFOSSIL CLAY and light greenish gray CLAYEY NANNOFOSSIL OOZE. There are minor occurrences of green clay, which occur as discontinuous to continuous layers and mottles. Foraminifers are common throughout the core, and the sediment is moderately bioturbated and mottled in most parts of the core. A scaly clay layer occurs at Section 1, 51-70 cm. Pyrite burrow fills occur in Section 2, 80 cm and Section 4, 138 cm.

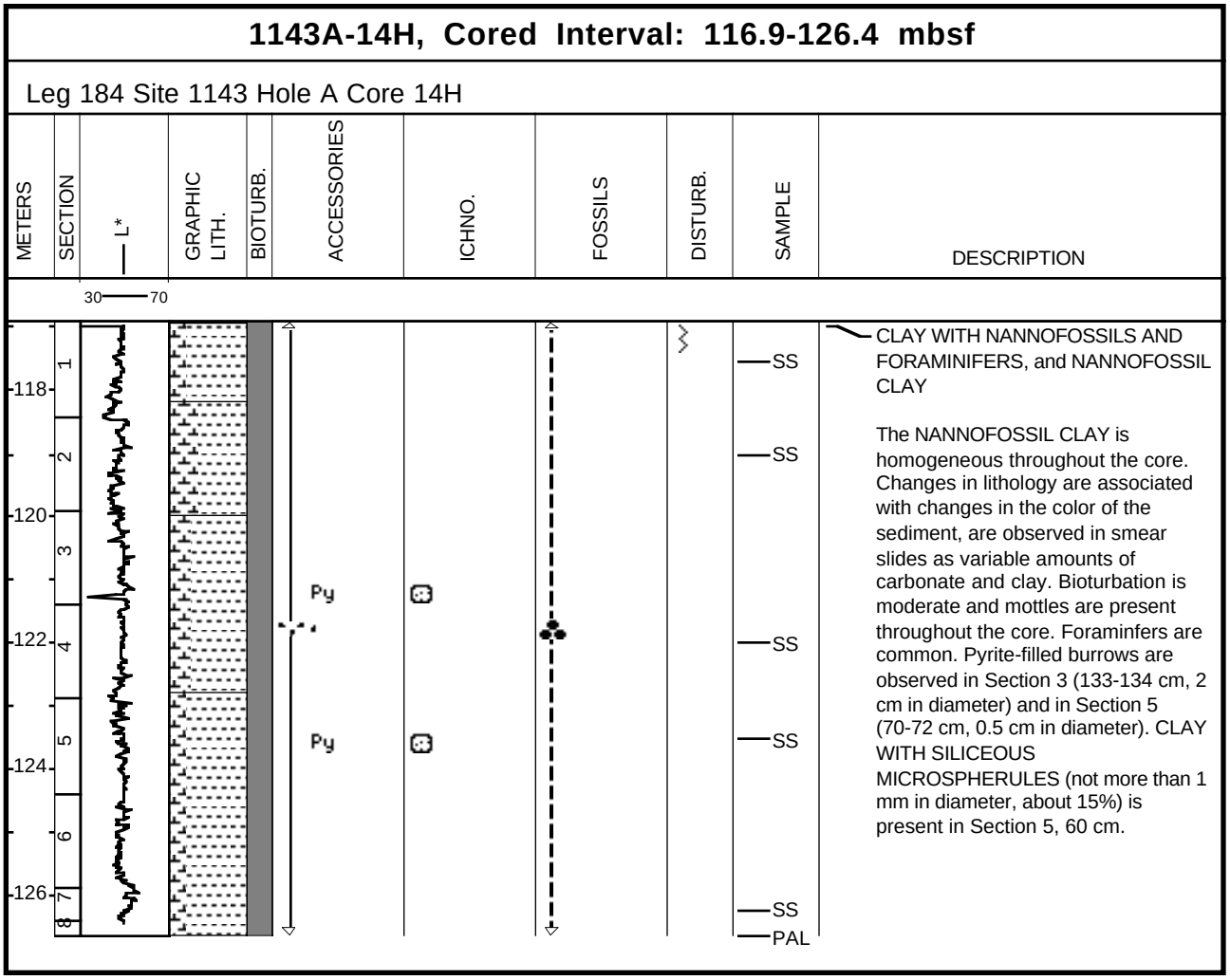
Core Photo


1143A-12H, Cored Interval: 97.9-107.4 mbsf
Leg 184 Site 1143 Hole A Core 12H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
100
102
104
106
1
2
3
4
5
6
7
8
Py
SS
SS
IW
SS
PAL
CLAY WITH NANNOFOSSILS and CLAY
This core is composed of light greenish gray CLAY WITH NANNOFOSSILS and CLAY. There are frequent but thin layers of green clay, which occur as discontinuous to continuous layers and mottles. Foraminifers are common throughout the core but are more abundant towards the base. The sediment is moderately bioturbated. Pyritized burrows occur in Sections 3, 4, 5, and 7, but constitute a volumetrically small fraction of the sediment.

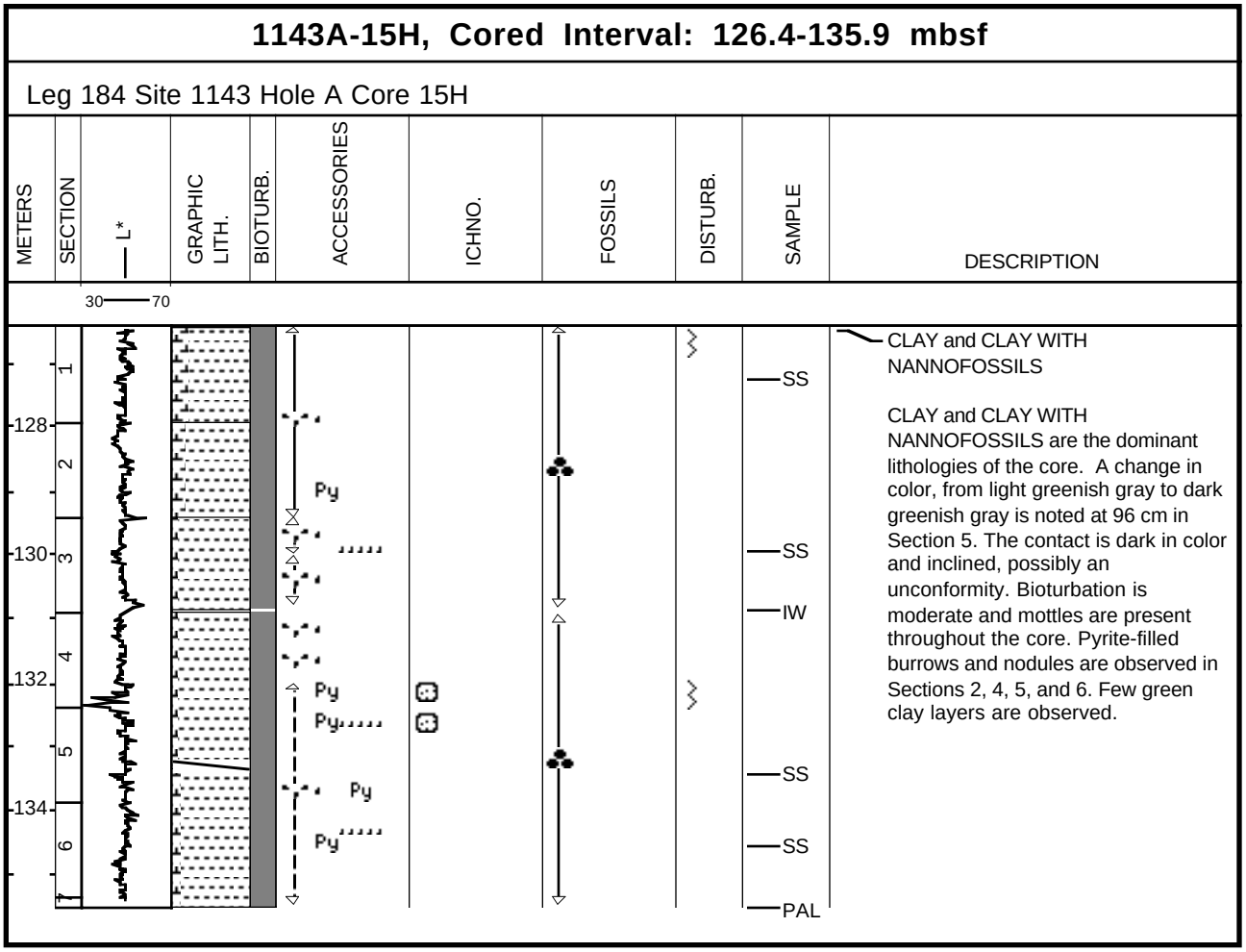
Core Photo


1143A-13H, Cored Interval: 107.4-116.9 mbsf
Leg 184 Site 1143 Hole A Core 13H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
108
110
112
114
116
1
2
3
4
5
6
7
Py
SS
SS
SS
SS
PAL
NANNOFOSSIL CLAY AND CLAY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS
NANNOFOSSIL CLAY is the dominant lithology in the upper part of the core. Reddish brown CLAY WITH NANNOFOSSILS becomes dominant from Section 2 to the top of Section 4. CLAY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS is dominant from Section 4 to the bottom of the core. Green clay is less abundant than in previous cores. Bioturbation is common, as indicated by the continuous presence of mottles and patches. A pyrite filled burrow is present at the bottom of Section 1.

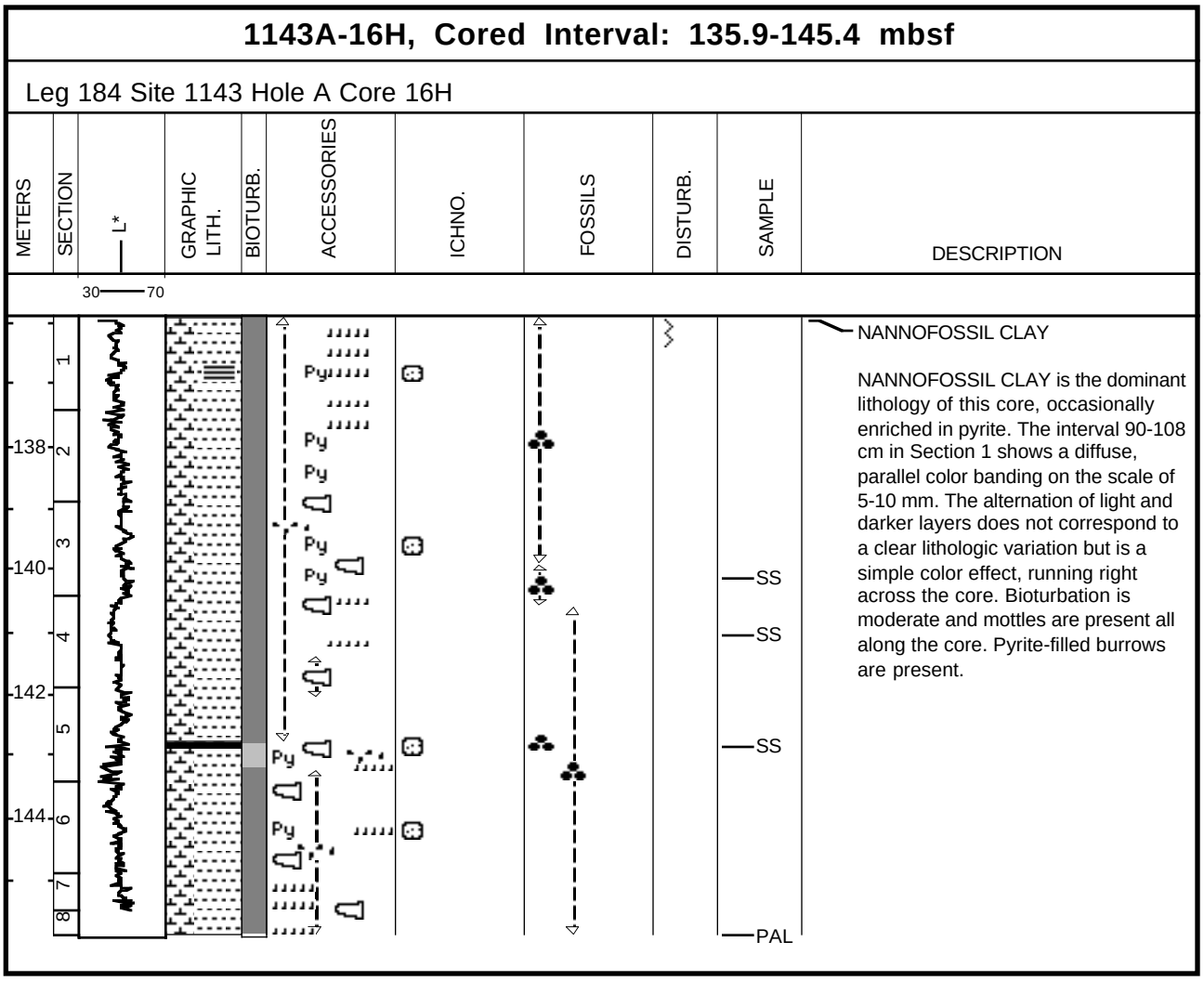
Core Photo


1143A-14H, Cored Interval: 116.9-126.4 mbsf
Leg 184 Site 1143 Hole A Core 14H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
118
120
122
124
126
1
2
3
4
5
6
7
Py
Py
SS
SS
SS
SS
SS
PAL
CLAY WITH NANNOFOSSILS AND FORAMINIFERS, and NANNOFOSSIL CLAY
The NANNOFOSSIL CLAY is homogeneous throughout the core. Changes in lithology are associated with changes in the color of the sediment, are observed in smear slides as variable amounts of carbonate and clay. Bioturbation is moderate and mottles are present throughout the core. Foraminfers are common. Pyrite-filled burrows are observed in Section 3 (133-134 cm, 2 cm in diameter) and in Section 5 (70-72 cm, 0.5 cm in diameter). CLAY WITH SILICEOUS MICROSPHERULES (not more than 1 mm in diameter, about 15%) is present in Section 5, 60 cm.

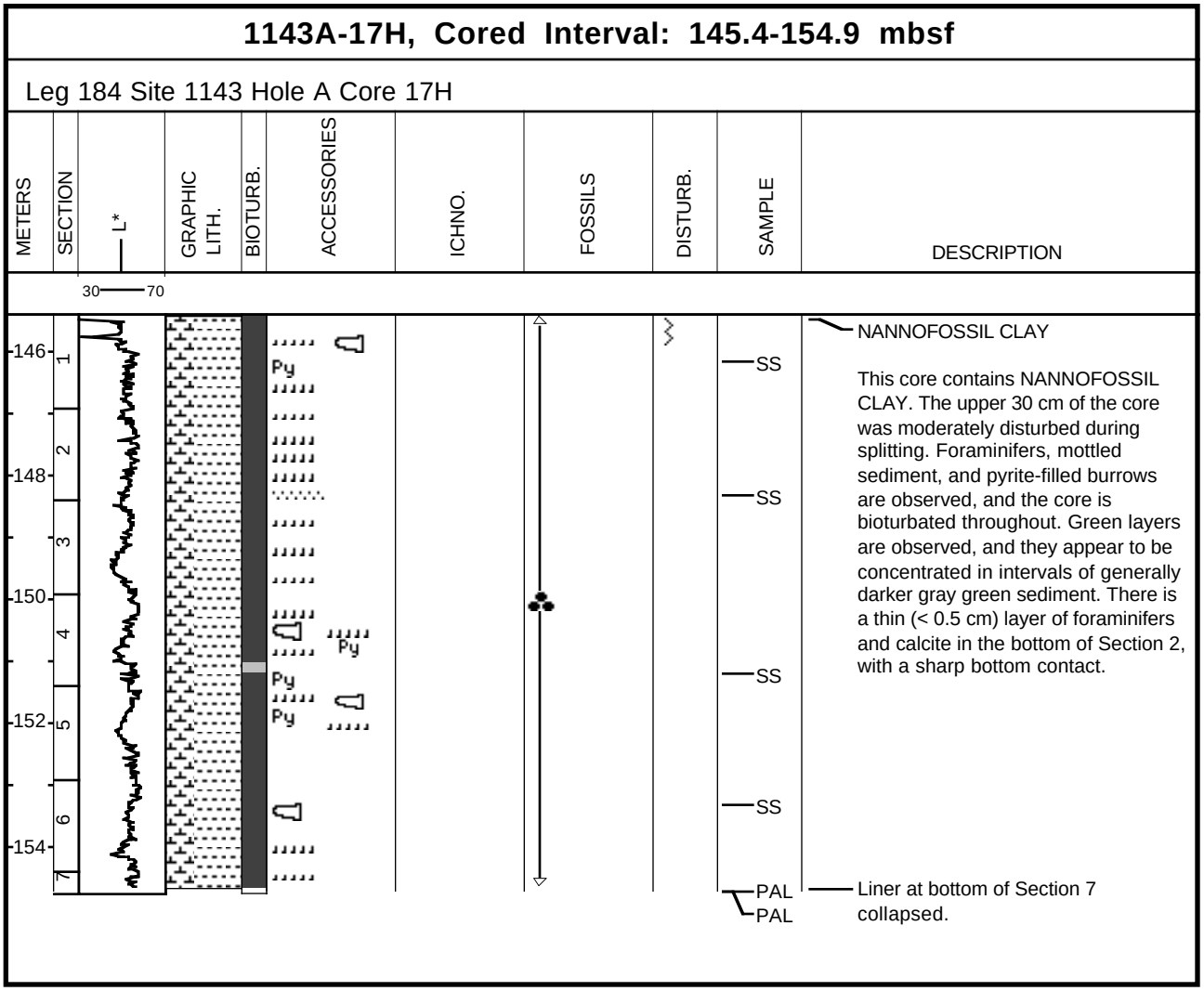
Core Photo


1143A-15H, Cored Interval: 126.4-135.9 mbsf
Leg 184 Site 1143 Hole A Core 15H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
128
130
132
134
1
2
3
4
5
6
7
Py
Py
Py
Py
Py
SS
SS
IW
SS
SS
PAL
CLAY and CLAY WITH NANNOFOSSILS
CLAY and CLAY WITH NANNOFOSSILS are the dominant lithologies of the core. A change in color, from light greenish gray to dark greenish gray is noted at 96 cm in Section 5. The contact is dark in color and inclined, possibly an unconformity. Bioturbation is moderate and mottles are present throughout the core. Pyrite-filled burrows and nodules are observed in Sections 2, 4, 5, and 6. Few green clay layers are observed.

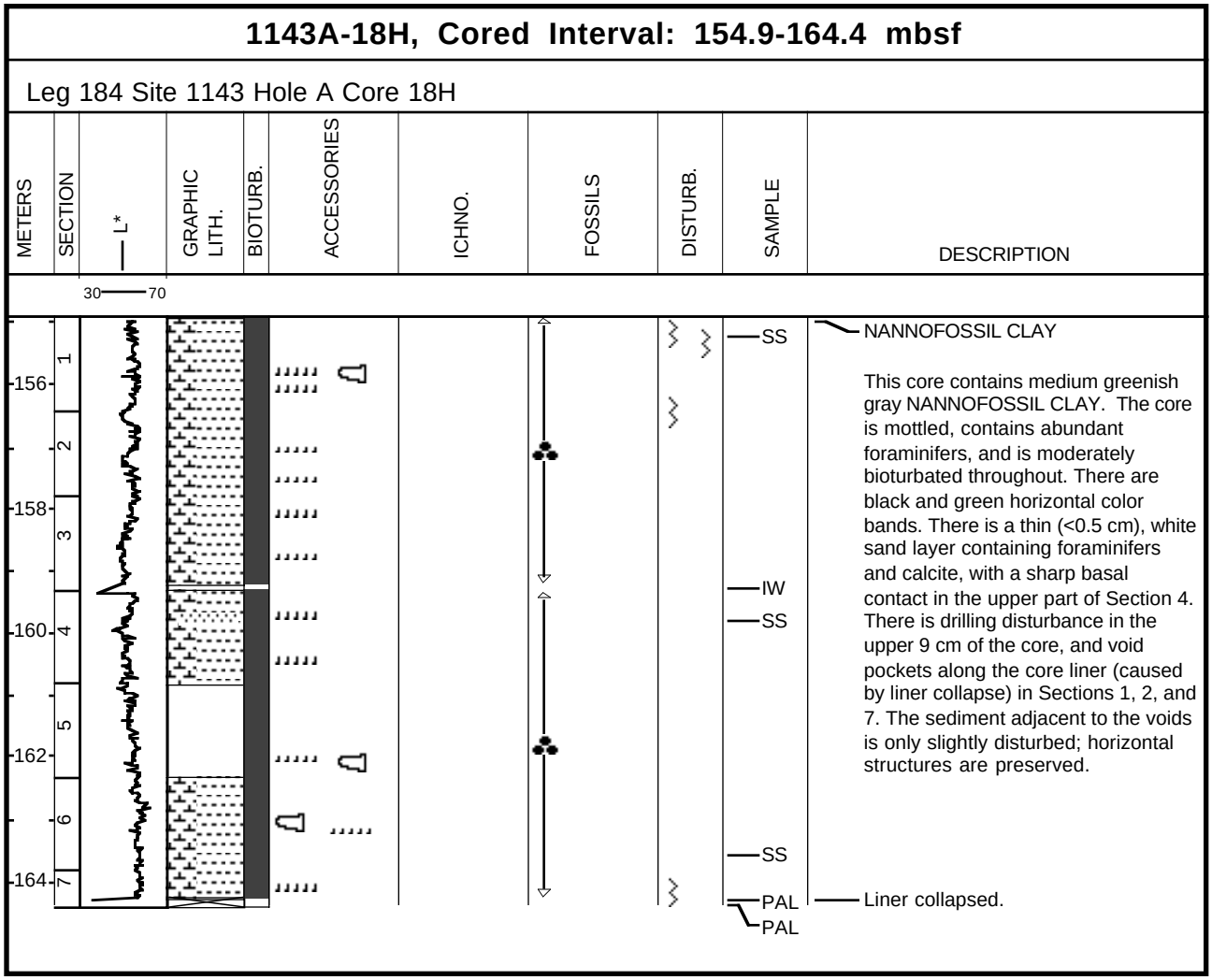
Core Photo


1143A-16H, Cored Interval: 135.9-145.4 mbsf
Leg 184 Site 1143 Hole A Core 16H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
138
140
142
144
1
2
3
4
5
6
7
8
Py
SS
SS
SS
PAL
NANNOFOSSIL CLAY
NANNOFOSSIL CLAY is the dominant lithology of this core, occasionally enriched in pyrite. The interval 90-108 cm in Section 1 shows a diffuse, parallel color banding on the scale of 5-10 mm. The alternation of light and darker layers does not correspond to a clear lithologic variation but is a simple color effect, running right across the core. Bioturbation is moderate and mottles are present all along the core. Pyrite-filled burrows are present.

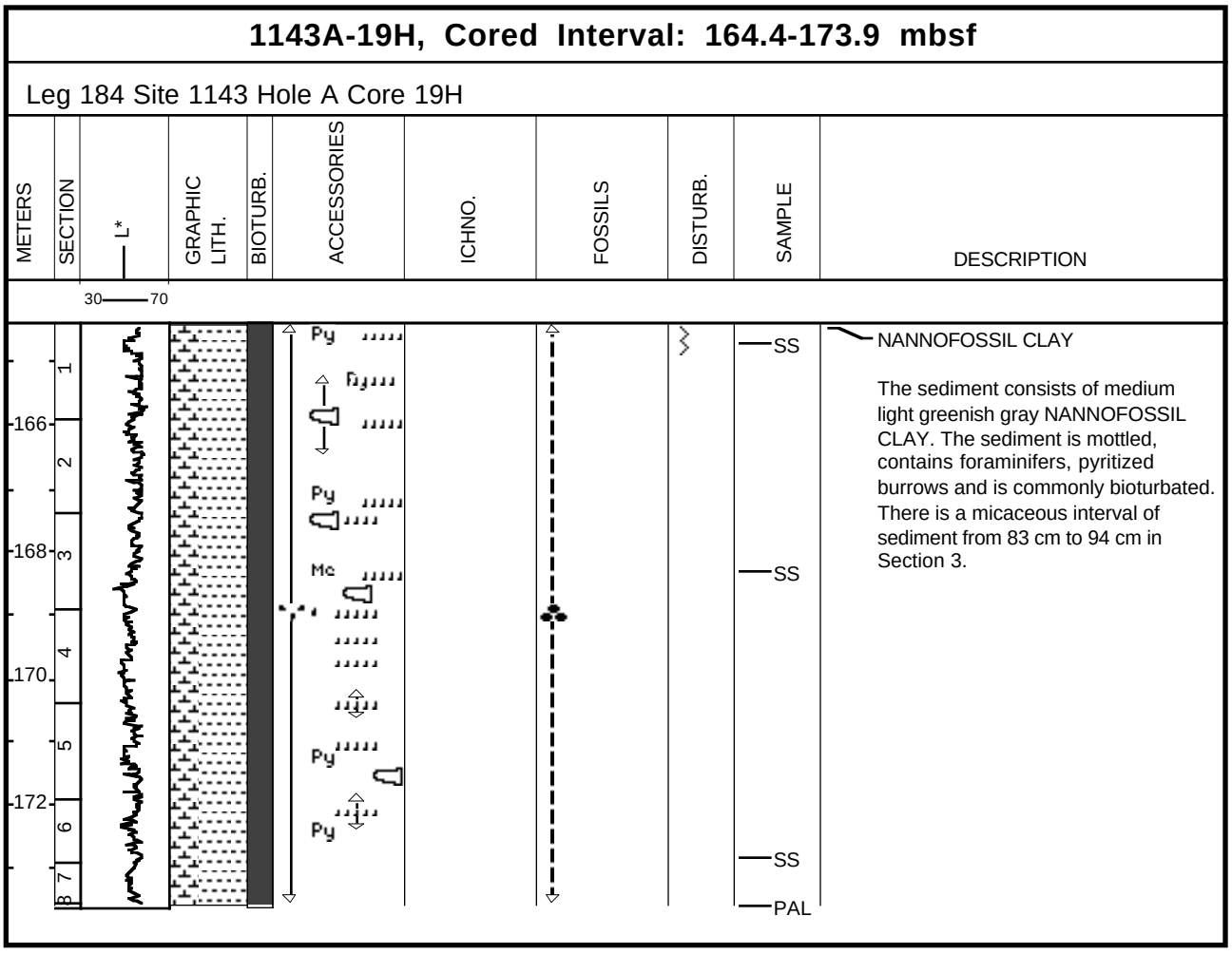
Core Photo


1143A-17H, Cored Interval: 145.4-154.9 mbsf
Leg 184 Site 1143 Hole A Core 17H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
146
148
150
152
154
1
2
3
4
5
6
7
Py
SS
PAL
PAL
NANNOFOSSIL CLAY
This core contains NANNOFOSSIL CLAY. The upper 30 cm of the core was moderately disturbed during splitting. Foraminifers, mottled sediment, and pyrite-filled burrows are observed, and the core is bioturbated throughout. Green layers are observed, and they appear to be concentrated in intervals of generally darker gray green sediment. There is a thin (< 0.5 cm) layer of foraminifers and calcite in the bottom of Section 2, with a sharp bottom contact.
Liner at bottom of Section 7 collapsed.

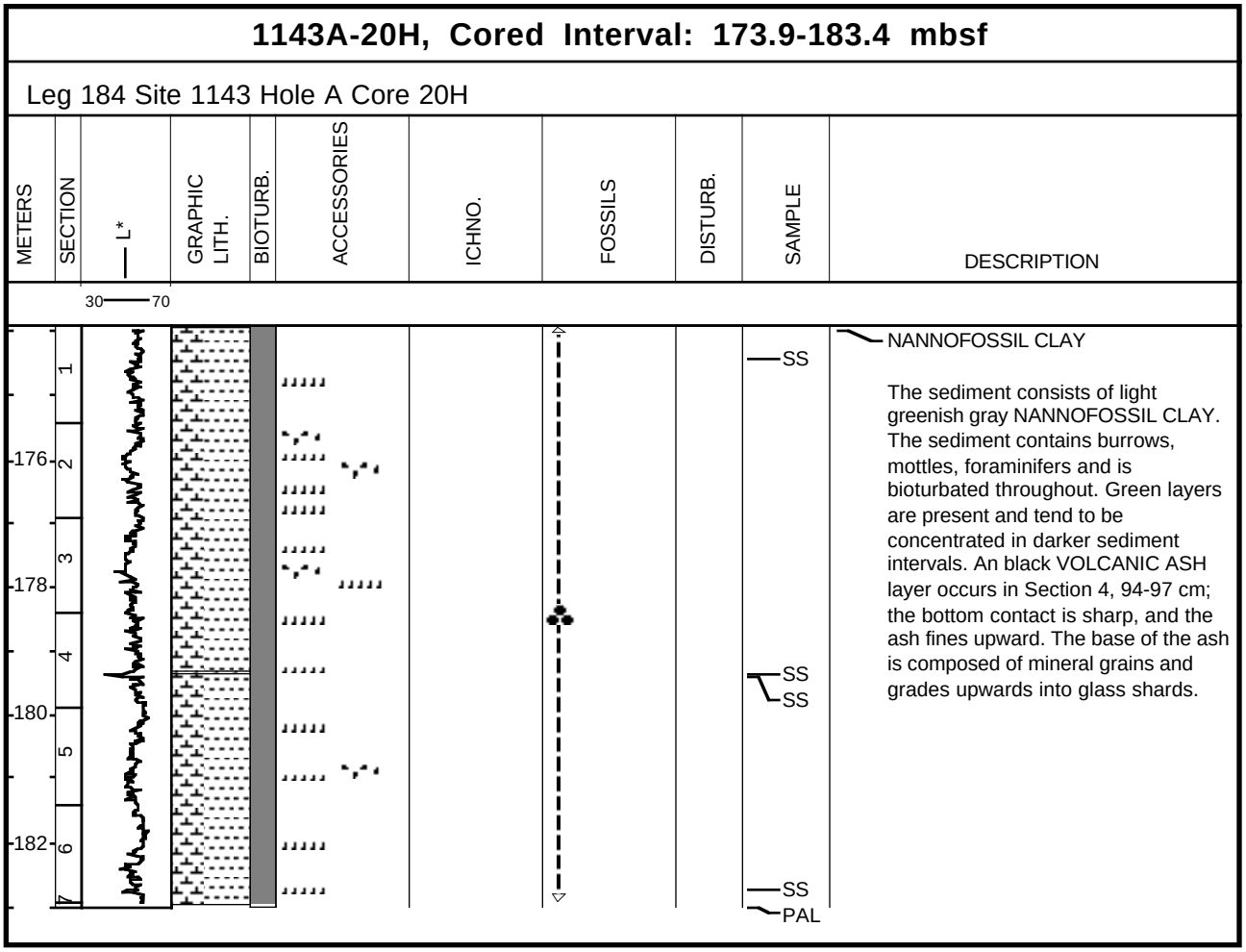
Core Photo


1143A-18H, Cored Interval: 154.9-164.4 mbsf
Leg 184 Site 1143 Hole A Core 18H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
156
158
160
162
164
1
2
3
4
5
6
7
SS
IW
SS
SS
PAL
PAL
NANNOFOSSIL CLAY
This core contains medium greenish gray NANNOFOSSIL CLAY. The core is mottled, contains abundant foraminifers, and is moderately bioturbated throughout. There are black and green horizontal color bands. There is a thin (<0.5 cm), white sand layer containing foraminifers and calcite, with a sharp basal contact in the upper part of Section 4. There is drilling disturbance in the upper 9 cm of the core, and void pockets along the core liner (caused by liner collapse) in Sections 1, 2, and 7. The sediment adjacent to the voids is only slightly disturbed; horizontal structures are preserved.
Liner collapsed.

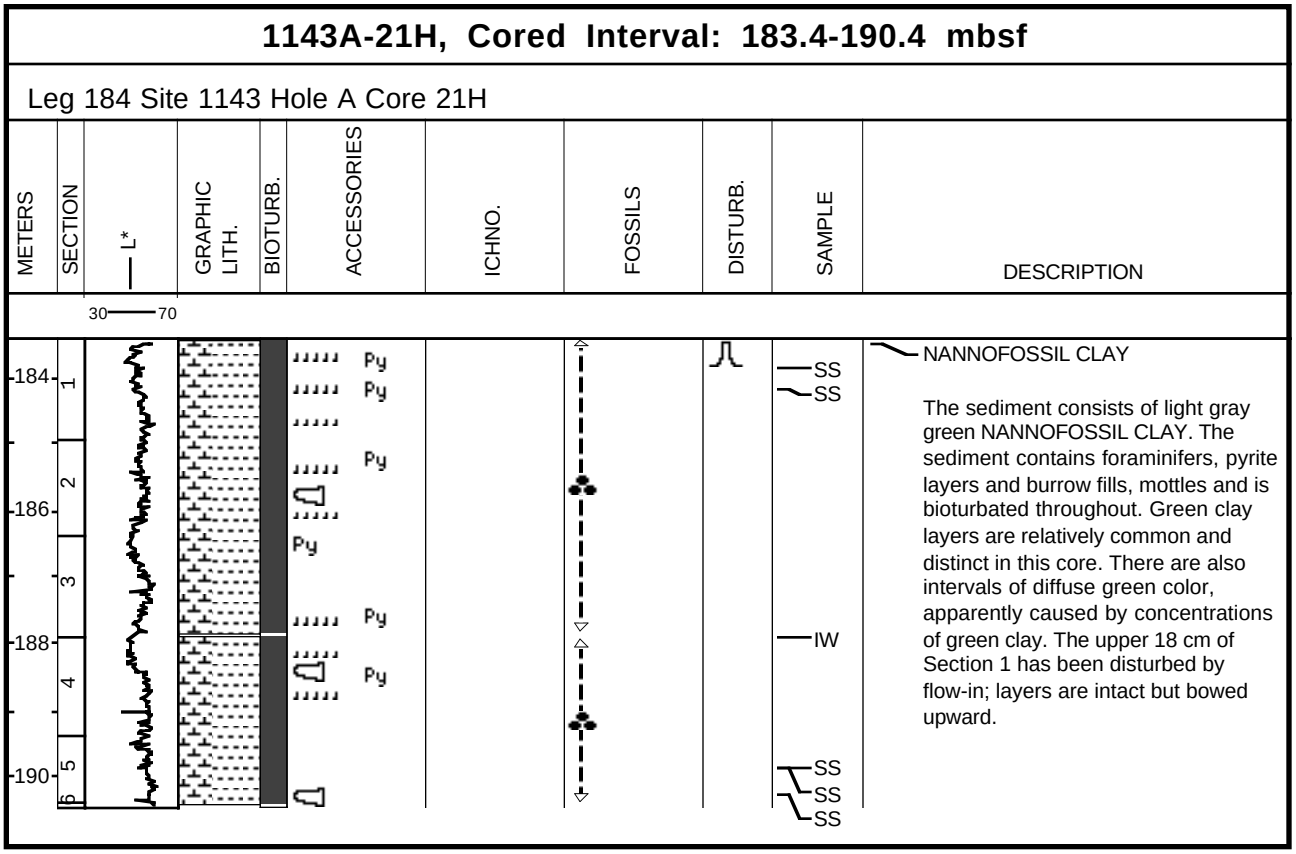
Core Photo


1143A-19H, Cored Interval: 164.4-173.9 mbsf
Leg 184 Site 1143 Hole A Core 19H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
166
168
170
172
1
2
3
4
5
6
7
CC
Py
Mc
SS
SS
SS
PAL
NANNOFOSSIL CLAY
The sediment consists of medium light greenish gray NANNOFOSSIL CLAY. The sediment is mottled, contains foraminifers, pyritized burrows and is commonly bioturbated. There is a micaceous interval of sediment from 83 cm to 94 cm in Section 3.

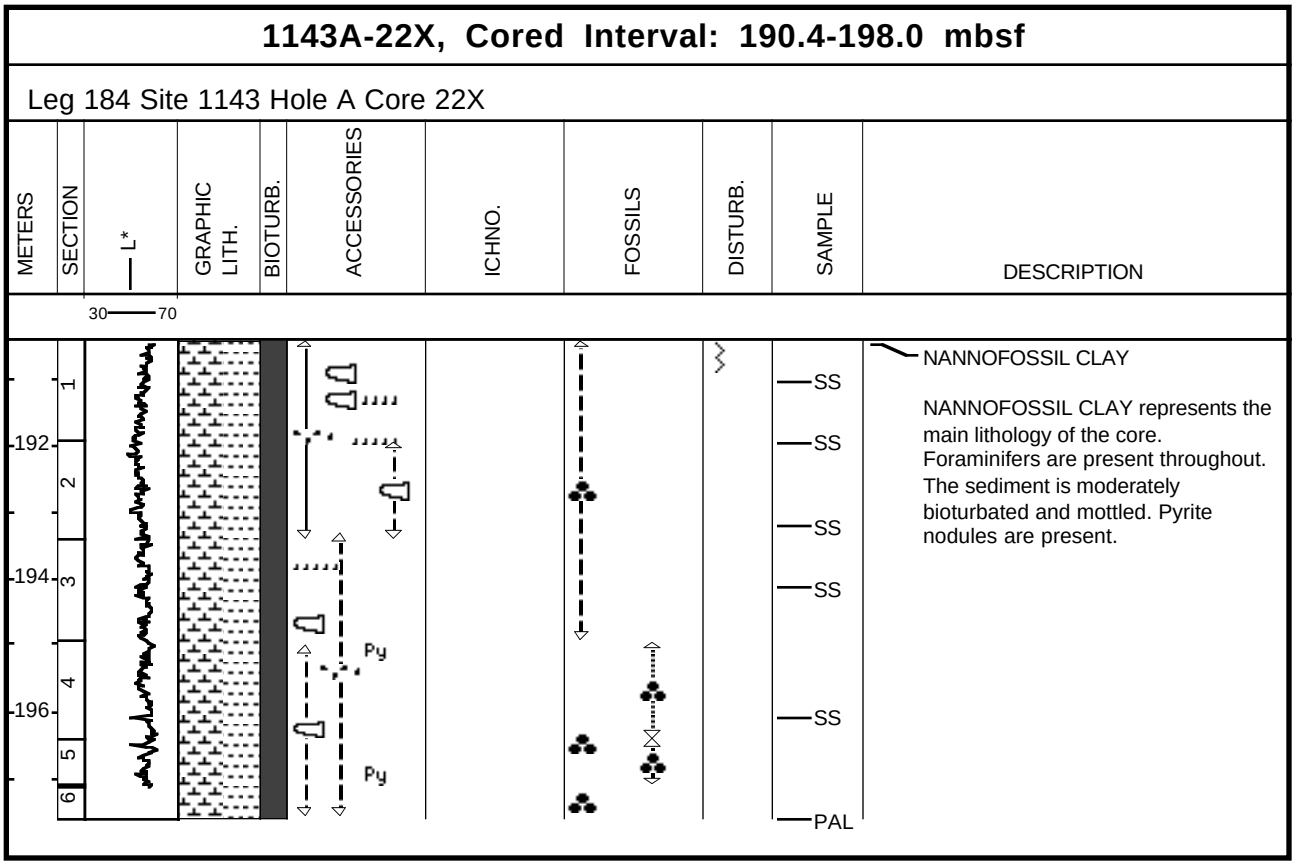
Core Photo


1143A-20H, Cored Interval: 173.9-183.4 mbsf
Leg 184 Site 1143 Hole A Core 20H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
176
178
180
182
1
2
3
4
5
6
7
SS
SS
SS
SS
PAL
NANNOFOSSIL CLAY
The sediment consists of light greenish gray NANNOFOSSIL CLAY. The sediment contains burrows, mottles, foraminifers and is bioturbated throughout. Green layers are present and tend to be concentrated in darker sediment intervals. An black VOLCANIC ASH layer occurs in Section 4, 94-97 cm; the bottom contact is sharp, and the ash fines upward. The base of the ash is composed of mineral grains and grades upwards into glass shards.

Core Photo


1143A-21H, Cored Interval: 183.4-190.4 mbsf
Leg 184 Site 1143 Hole A Core 21H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
184
186
188
190
1
2
3
4
5
6
Py
SS
IW
NANNOFOSSIL CLAY
The sediment consists of light gray green NANNOFOSSIL CLAY. The sediment contains foraminifers, pyrite layers and burrow fills, mottles and is bioturbated throughout. Green clay layers are relatively common and distinct in this core. There are also intervals of diffuse green color, apparently caused by concentrations of green clay. The upper 18 cm of Section 1 has been disturbed by flow-in; layers are intact but bowed upward.

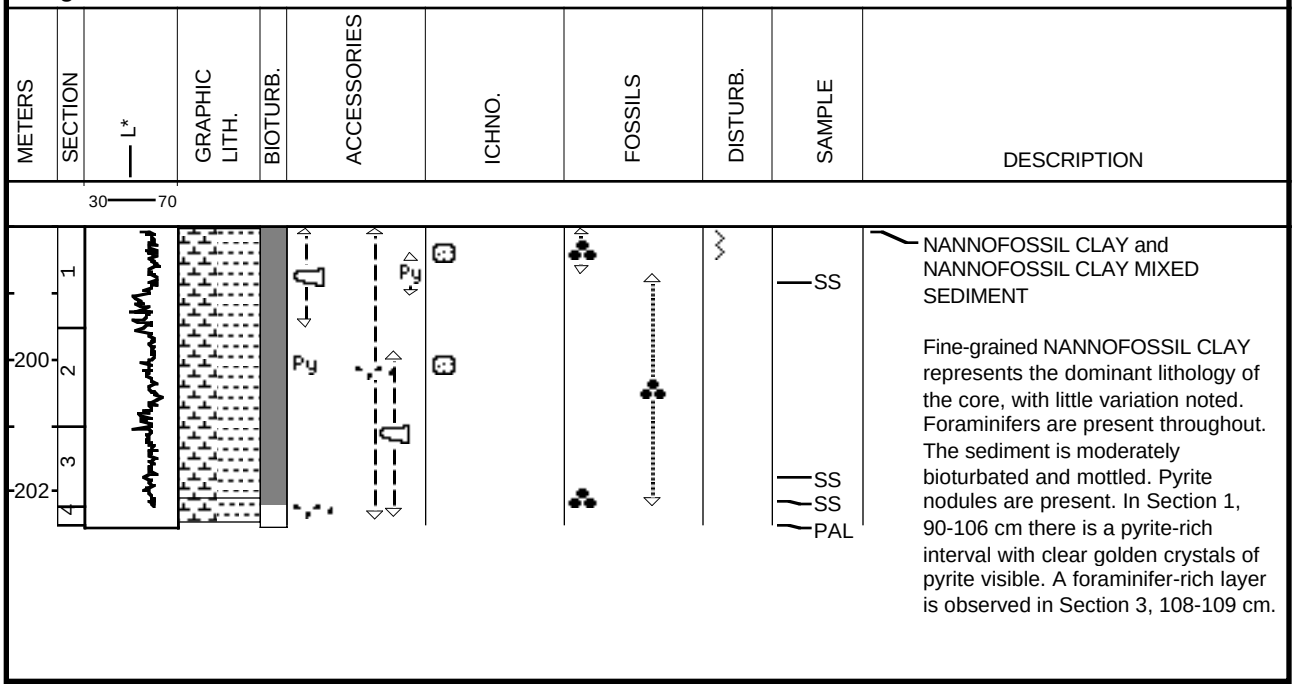
Core Photo


1143A-22X, Cored Interval: 190.4-198.0 mbsf
Leg 184 Site 1143 Hole A Core 22X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
192
194
196
1
2
3
4
5
6
Py
Py
SS
SS
SS
SS
SS
PAL
NANNOFOSSIL CLAY
NANNOFOSSIL CLAY represents the main lithology of the core. Foraminifers are present throughout. The sediment is moderately bioturbated and mottled. Pyrite nodules are present.

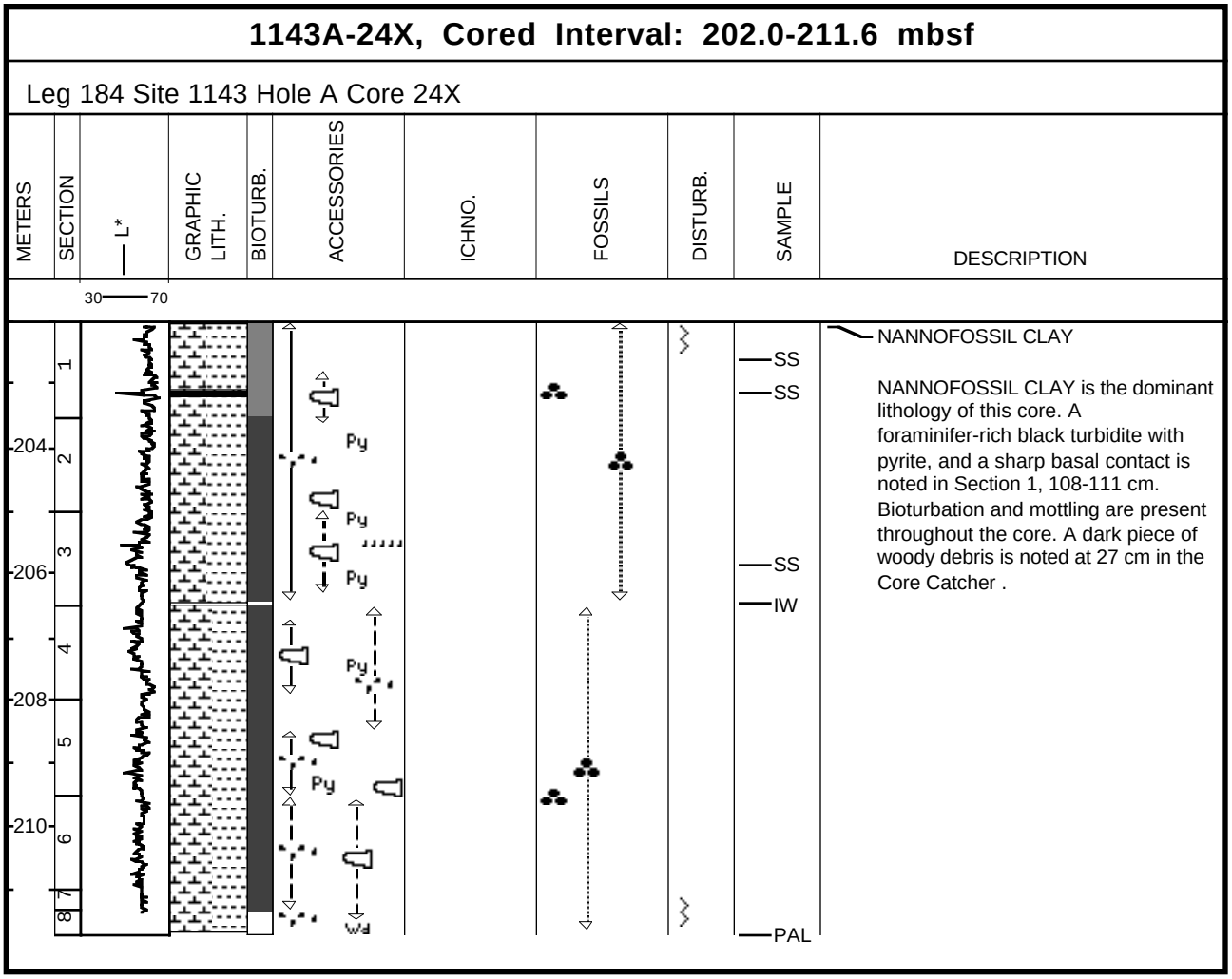
Core Photo

1143A-23X, Cored Interval: 198.0-202.0 mbsf

Leg 184 Site 1143 Hole A Core 23X



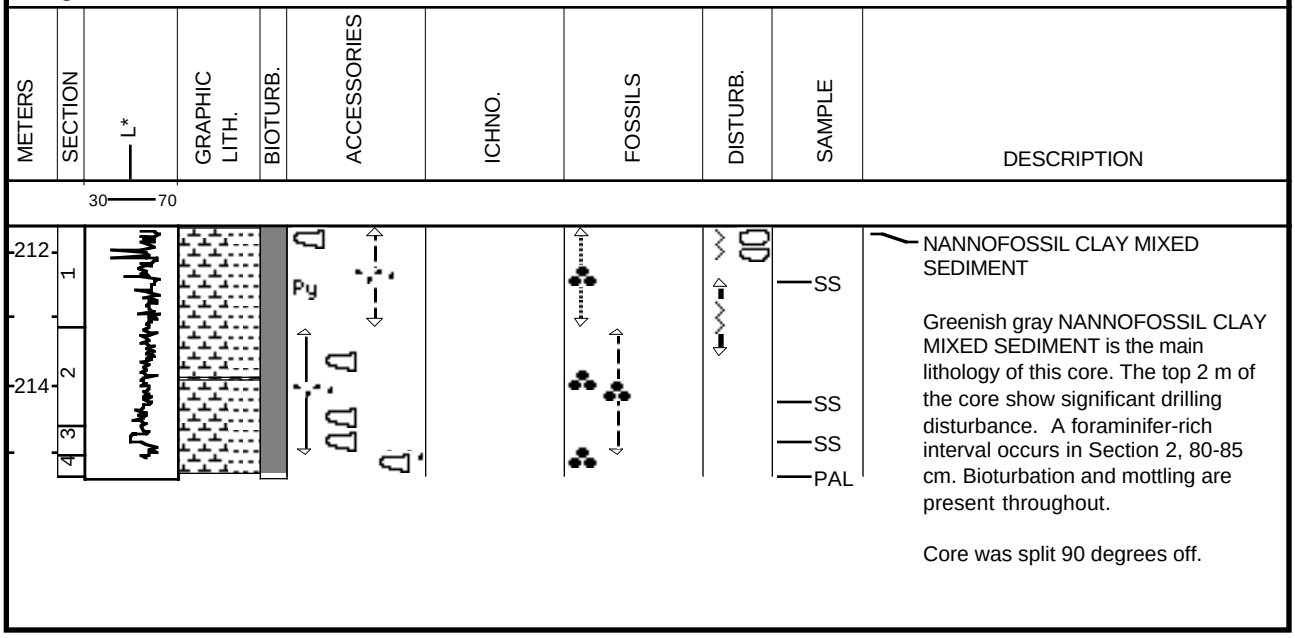
Core Photo


1143A-24X, Cored Interval: 202.0-211.6 mbsf
Leg 184 Site 1143 Hole A Core 24X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
204
206
208
210
1
2
3
4
5
6
7
8
Py
SS
SS
SS
IW
PAL
NANNOFOSSIL CLAY
NANNOFOSSIL CLAY is the dominant lithology of this core. A foraminifer-rich black turbidite with pyrite, and a sharp basal contact is noted in Section 1, 108-111 cm. Bioturbation and mottling are present throughout the core. A dark piece of woody debris is noted at 27 cm in the Core Catcher .

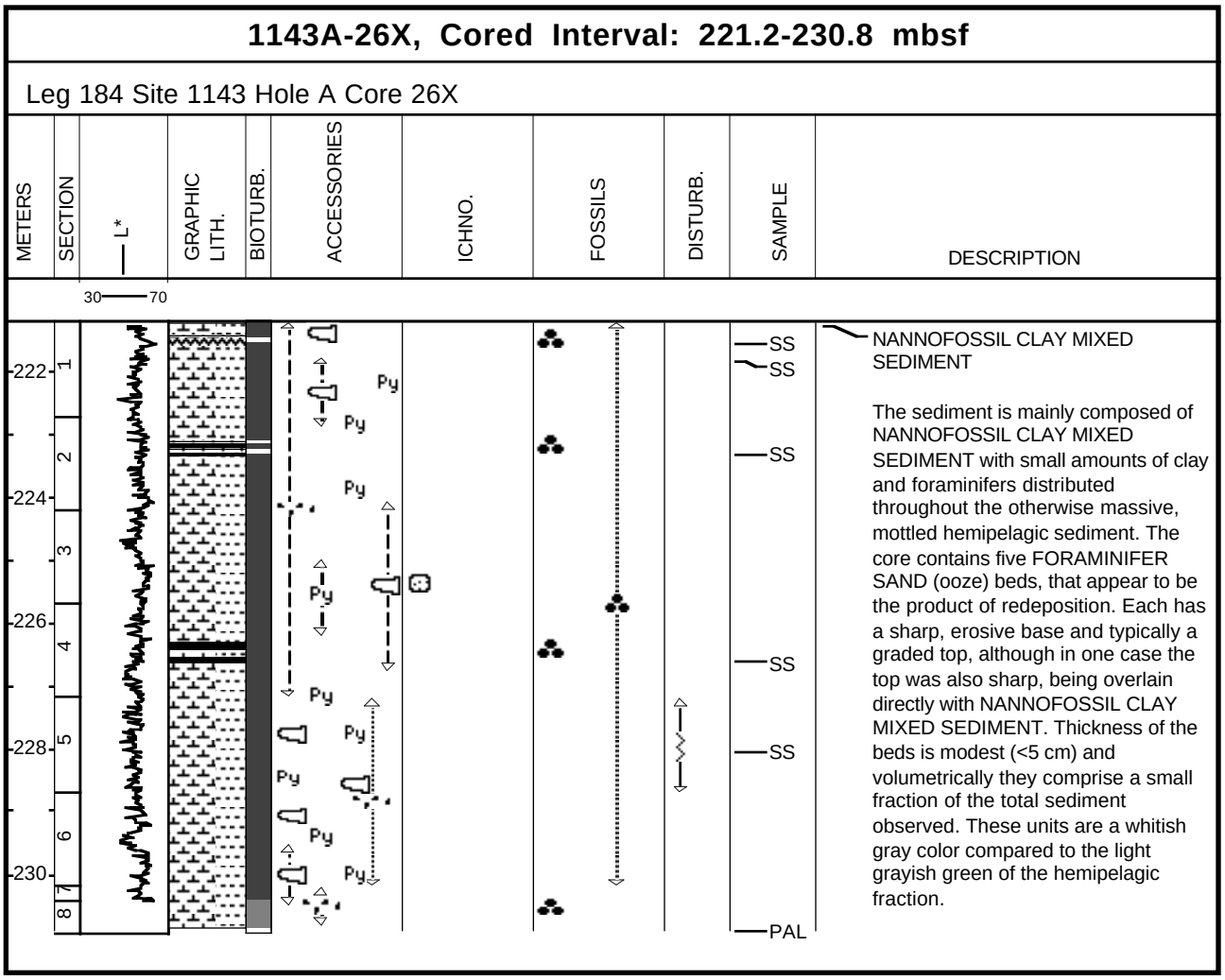
Core Photo

1143A-25X, Cored Interval: 211.6-221.2 mbsf

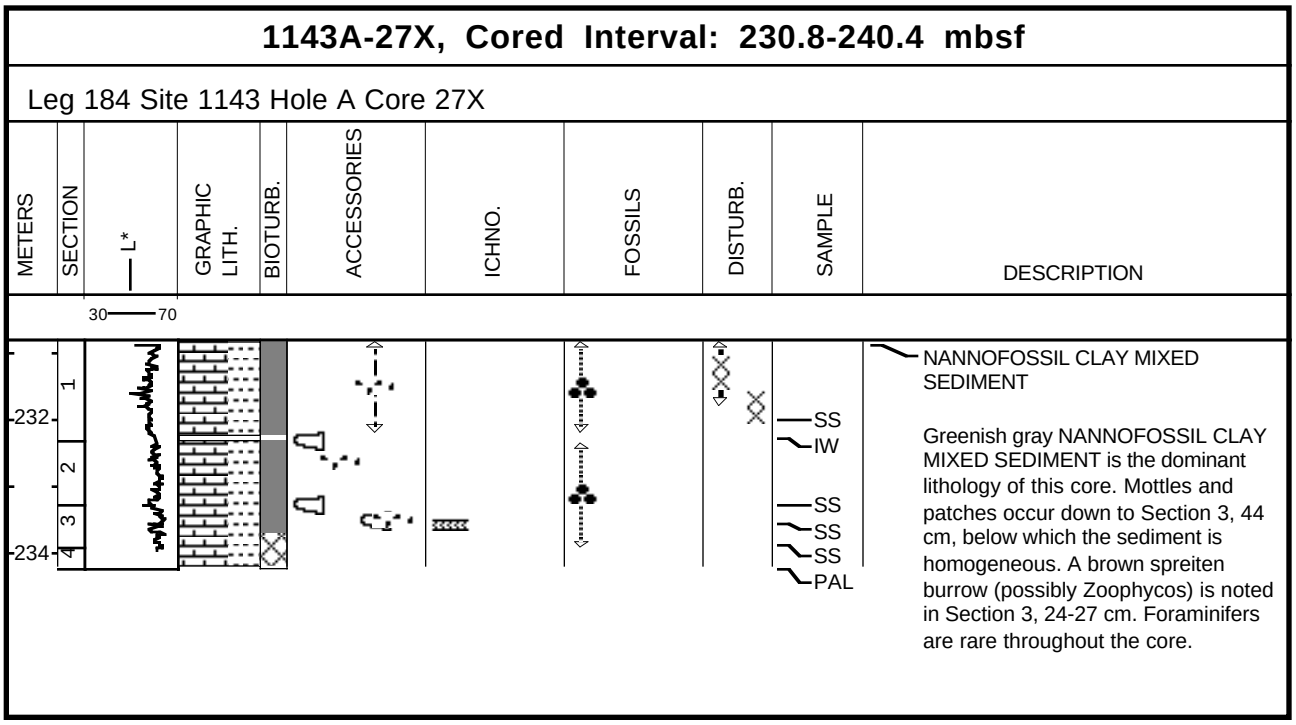
Leg 184 Site 1143 Hole A Core 25X



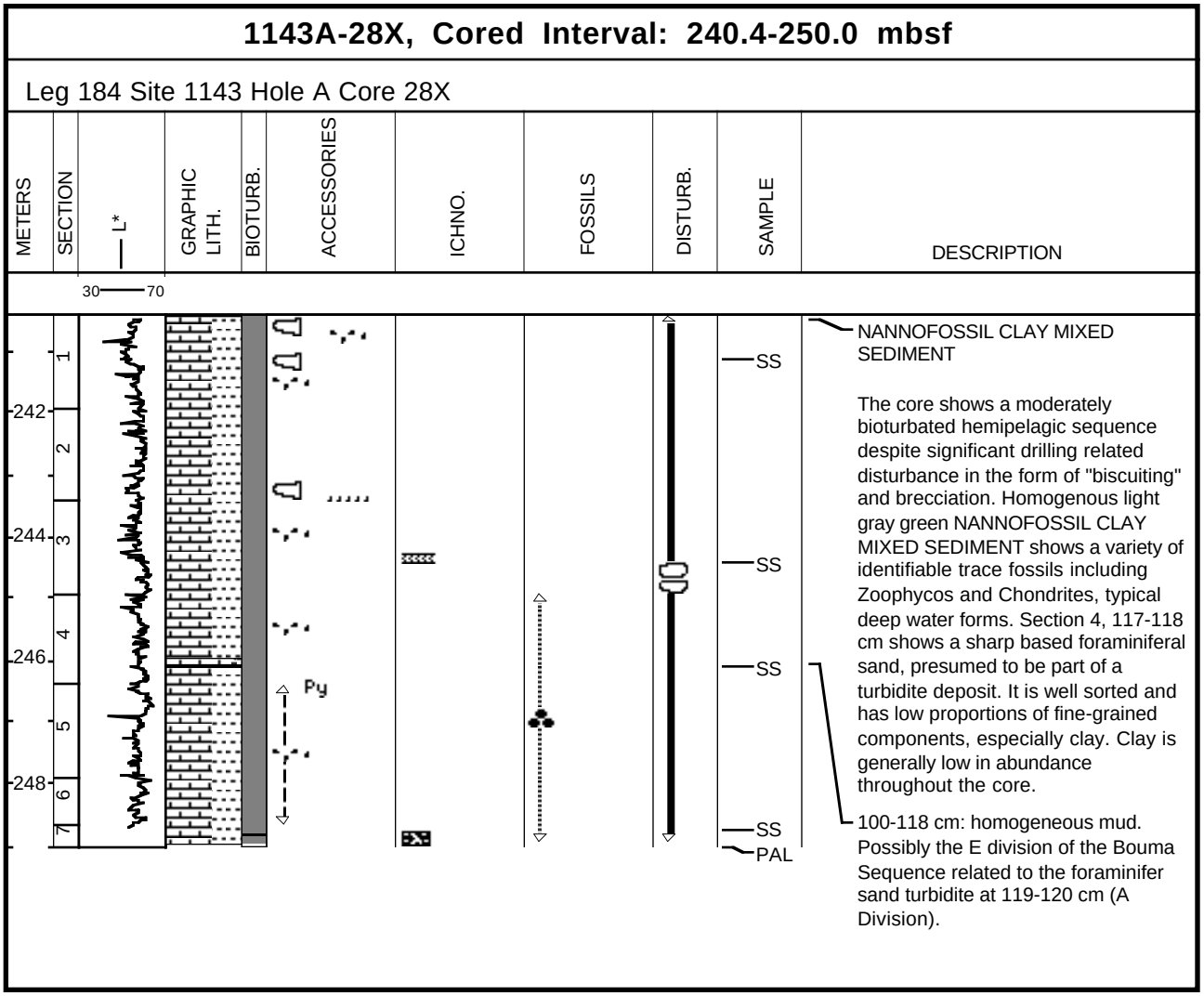
Core Photo


1143A-26X, Cored Interval: 221.2-230.8 mbsf
Leg 184 Site 1143 Hole A Core 26X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
222
224
226
228
230
1
2
3
4
5
6
7
8
Py
SS
SS
SS
SS
SS
PAL
NANNOFOSSIL CLAY MIXED SEDIMENT
The sediment is mainly composed of NANNOFOSSIL CLAY MIXED SEDIMENT with small amounts of clay and foraminifers distributed throughout the otherwise massive, mottled hemipelagic sediment. The core contains five FORAMINIFER SAND (ooze) beds, that appear to be the product of redeposition. Each has a sharp, erosive base and typically a graded top, although in one case the top was also sharp, being overlain directly with NANNOFOSSIL CLAY MIXED SEDIMENT. Thickness of the beds is modest (<5 cm) and volumetrically they comprise a small fraction of the total sediment observed. These units are a whitish gray color compared to the light grayish green of the hemipelagic fraction.

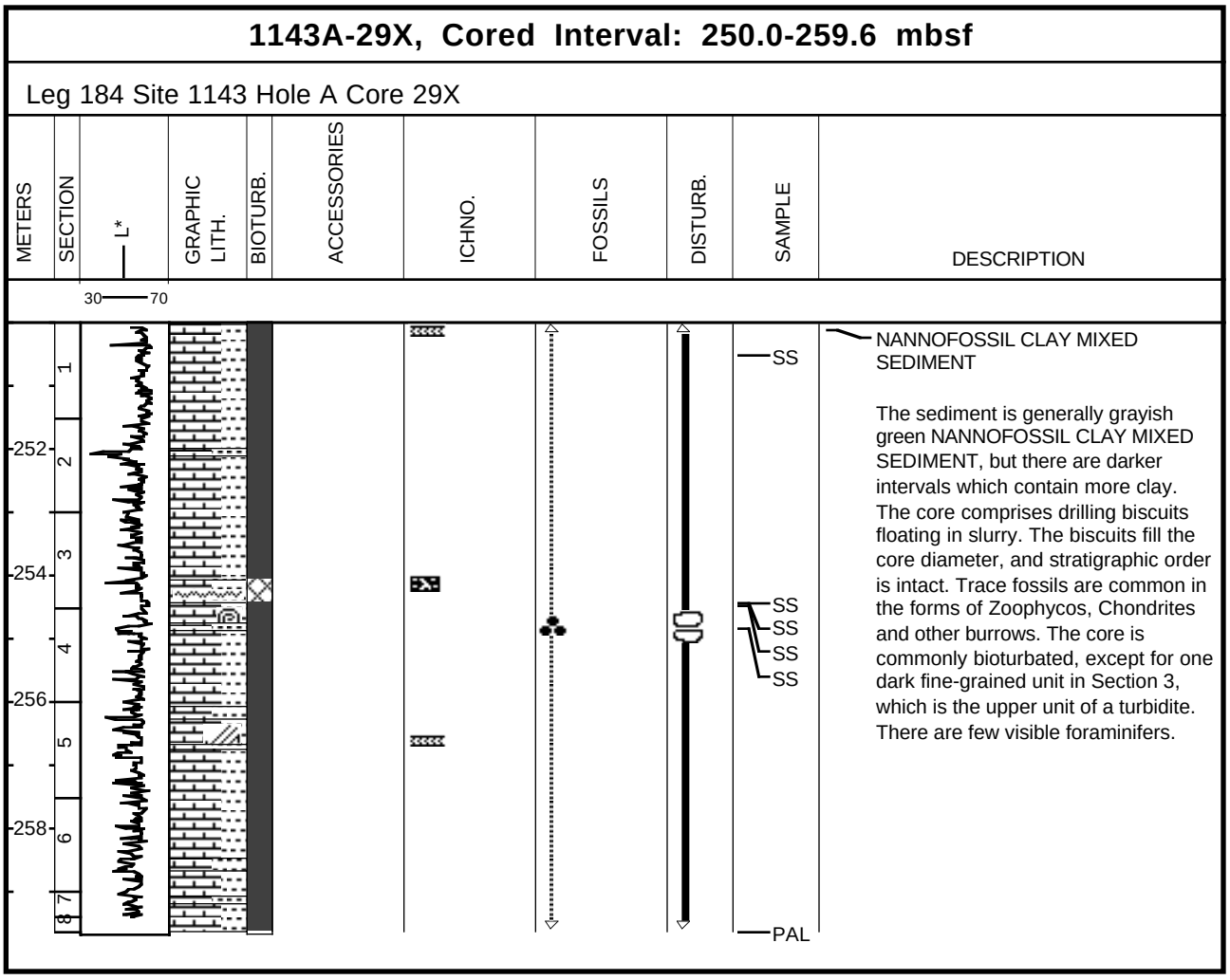
Core Photo


1143A-27X, Cored Interval: 230.8-240.4 mbsf
Leg 184 Site 1143 Hole A Core 27X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
232
234
1
2
3
4
SS
IW
SS
SS
SS
PAL
NANNOFOSSIL CLAY MIXED SEDIMENT
Greenish gray NANNOFOSSIL CLAY MIXED SEDIMENT is the dominant lithology of this core. Mottles and patches occur down to Section 3, 44 cm, below which the sediment is homogeneous. A brown spreiten burrow (possibly Zoophycos) is noted in Section 3, 24-27 cm. Foraminifers are rare throughout the core.

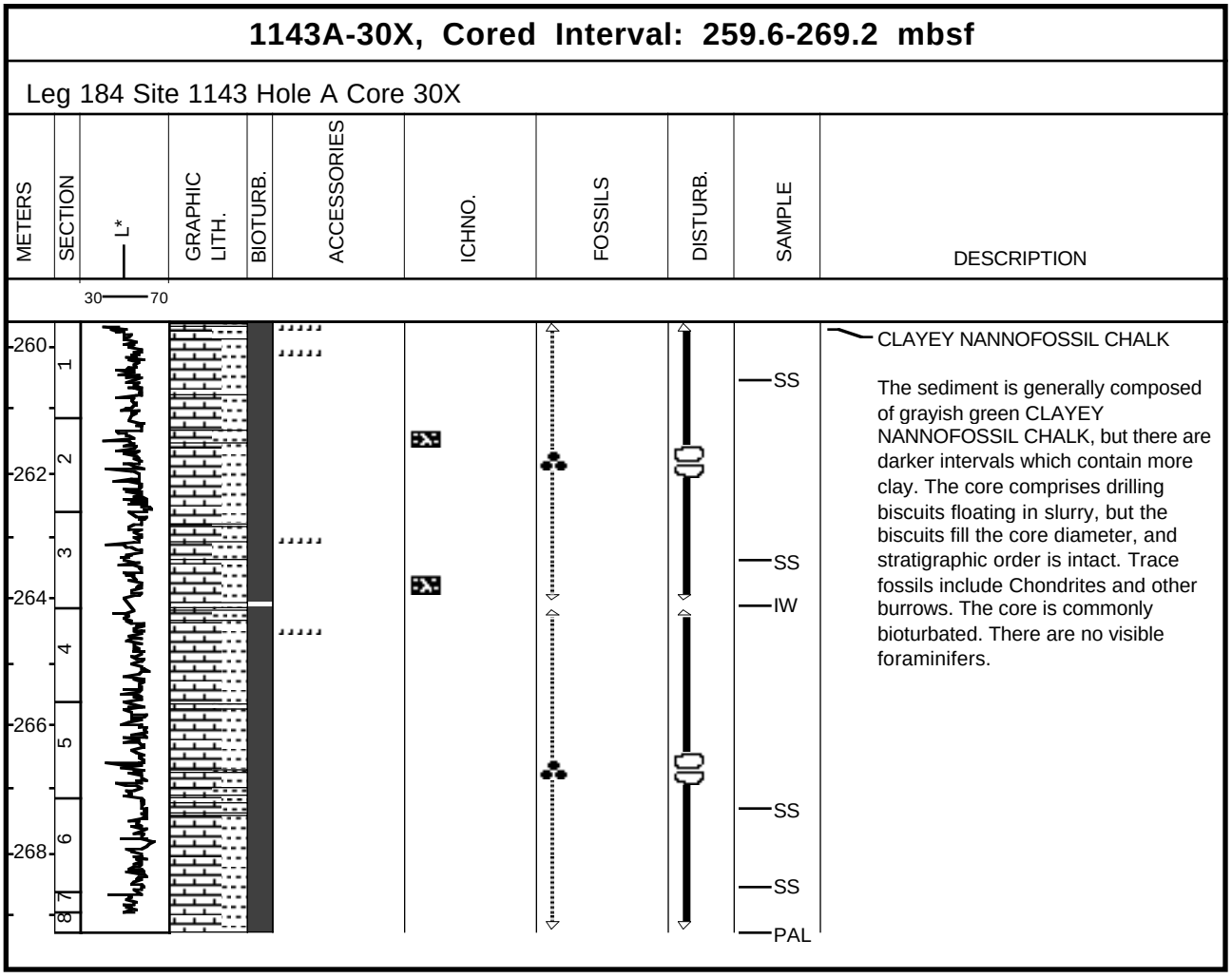
Core Photo


1143A-28X, Cored Interval: 240.4-250.0 mbsf
Leg 184 Site 1143 Hole A Core 28X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
242
244
246
248
1
2
3
4
5
6
7
Py
SS
SS
SS
SS
PAL
NANNOFOSSIL CLAY MIXED SEDIMENT
The core shows a moderately bioturbated hemipelagic sequence despite significant drilling related disturbance in the form of "biscuiting" and brecciation. Homogenous light gray green NANNOFOSSIL CLAY MIXED SEDIMENT shows a variety of identifiable trace fossils including Zoophycos and Chondrites, typical deep water forms. Section 4, 117-118 cm shows a sharp based foraminiferal sand, presumed to be part of a turbidite deposit. It is well sorted and has low proportions of fine-grained components, especially clay. Clay is generally low in abundance throughout the core.
100-118 cm: homogeneous mud. Possibly the E division of the Bouma Sequence related to the foraminifer sand turbidite at 119-120 cm (A Division).

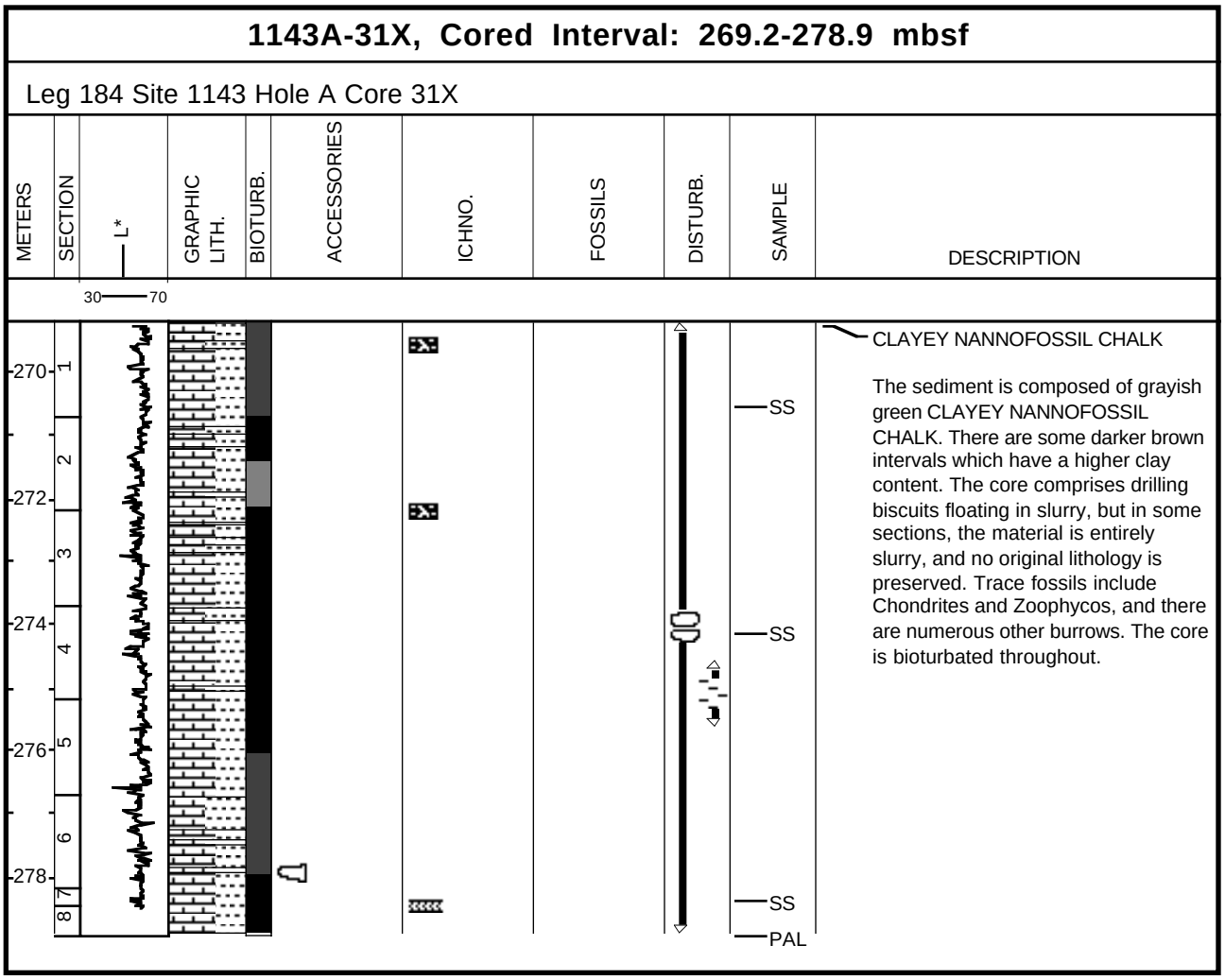
Core Photo


1143A-29X, Cored Interval: 250.0-259.6 mbsf
Leg 184 Site 1143 Hole A Core 29X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
252
254
256
258
1
2
3
4
5
6
7
CC
SS
SS
SS
SS
PAL
NANNOFOSSIL CLAY MIXED SEDIMENT
The sediment is generally grayish green NANNOFOSSIL CLAY MIXED SEDIMENT, but there are darker intervals which contain more clay. The core comprises drilling biscuits floating in slurry. The biscuits fill the core diameter, and stratigraphic order is intact. Trace fossils are common in the forms of Zoophycos, Chondrites and other burrows. The core is commonly bioturbated, except for one dark fine-grained unit in Section 3, which is the upper unit of a turbidite. There are few visible foraminifers.

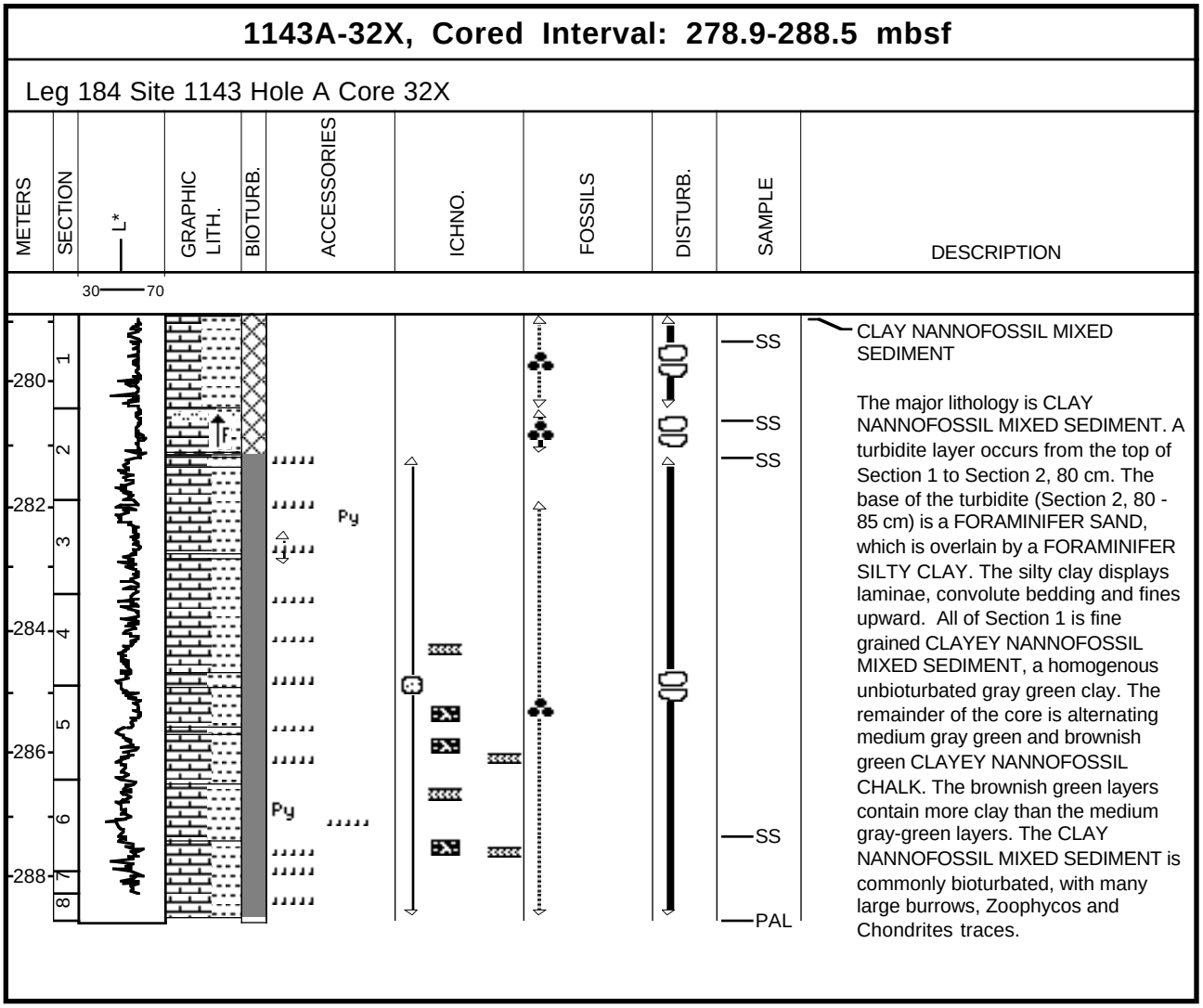
Core Photo


1143A-30X, Cored Interval: 259.6-269.2 mbsf
Leg 184 Site 1143 Hole A Core 30X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
260
262
264
266
268
1
2
3
4
5
6
7
8
SS
SS
IW
SS
SS
PAL
CLAYEY NANNOFOSSIL CHALK
The sediment is generally composed of grayish green CLAYEY NANNOFOSSIL CHALK, but there are darker intervals which contain more clay. The core comprises drilling biscuits floating in slurry, but the biscuits fill the core diameter, and stratigraphic order is intact. Trace fossils include Chondrites and other burrows. The core is commonly bioturbated. There are no visible foraminifers.

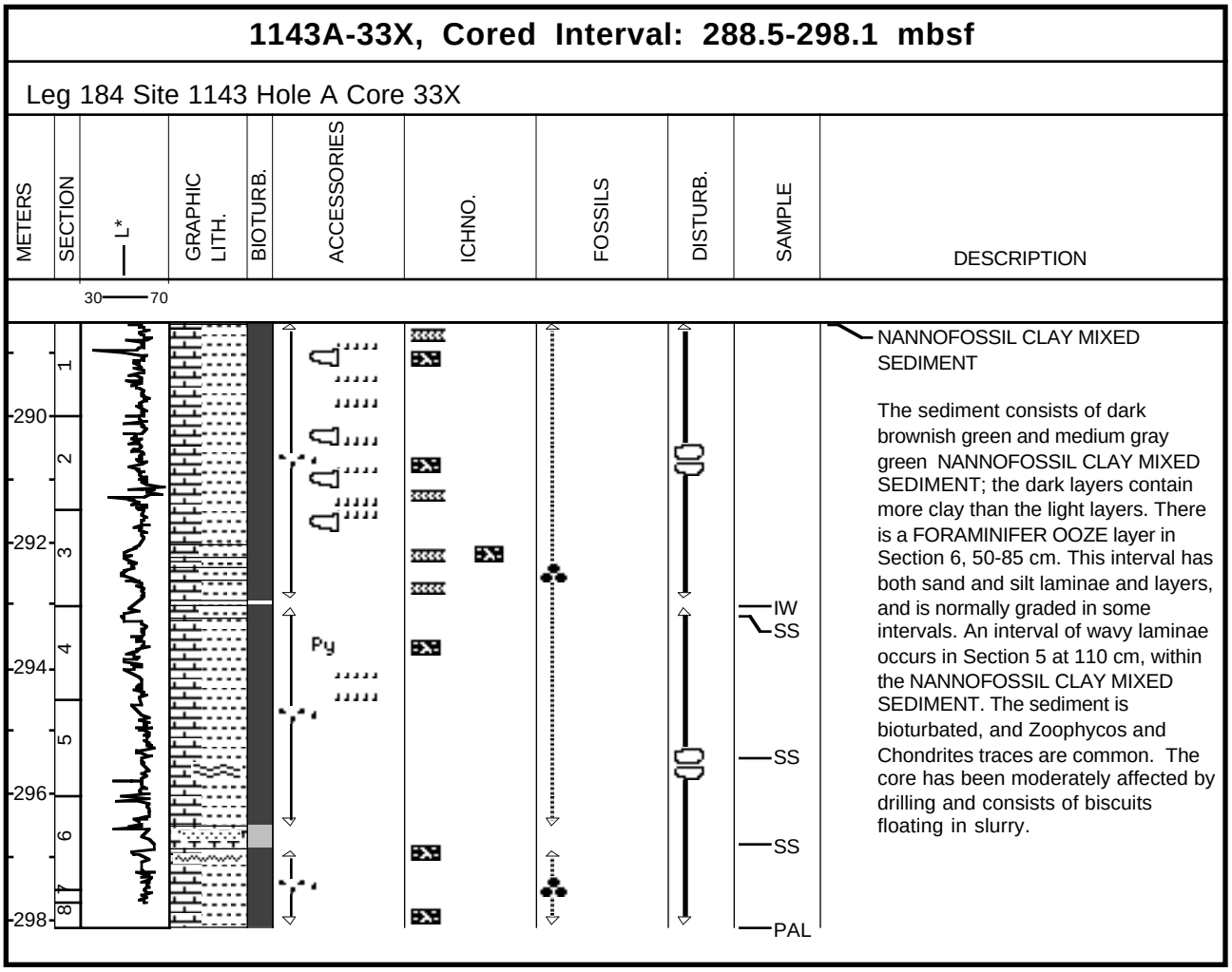
Core Photo


1143A-31X, Cored Interval: 269.2-278.9 mbsf
Leg 184 Site 1143 Hole A Core 31X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
270
272
274
276
278
1
2
3
4
5
6
7
8
SS
SS
SS
PAL
CLAYEY NANNOFOSSIL CHALK
The sediment is composed of grayish green CLAYEY NANNOFOSSIL CHALK. There are some darker brown intervals which have a higher clay content. The core comprises drilling biscuits floating in slurry, but in some sections, the material is entirely slurry, and no original lithology is preserved. Trace fossils include Chondrites and Zoophycos, and there are numerous other burrows. The core is bioturbated throughout.

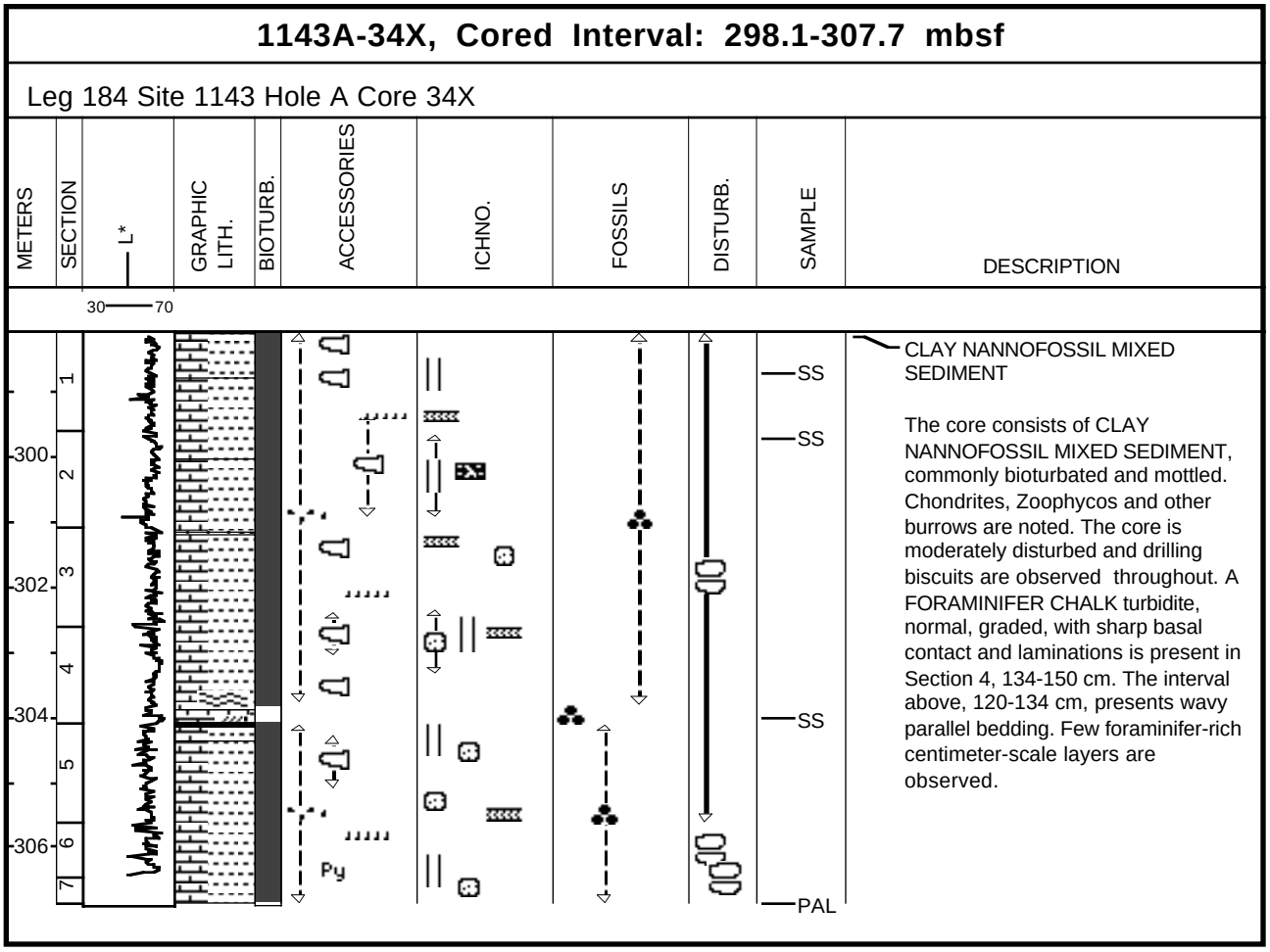
Core Photo


1143A-32X, Cored Interval: 278.9-288.5 mbsf
Leg 184 Site 1143 Hole A Core 32X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
280
282
284
286
288
1
2
3
4
5
6
7
8
F
Py
Py
SS
SS
SS
SS
PAL
CLAY NANNOFOSSIL MIXED SEDIMENT
The major lithology is CLAY NANNOFOSSIL MIXED SEDIMENT. A turbidite layer occurs from the top of Section 1 to Section 2, 80 cm. The base of the turbidite (Section 2, 80 - 85 cm) is a FORAMINIFER SAND, which is overlain by a FORAMINIFER SILTY CLAY. The silty clay displays laminae, convolute bedding and fines upward. All of Section 1 is fine grained CLAYEY NANNOFOSSIL MIXED SEDIMENT, a homogenous unbioturbated gray green clay. The remainder of the core is alternating medium gray green and brownish green CLAYEY NANNOFOSSIL CHALK. The brownish green layers contain more clay than the medium gray-green layers. The CLAY NANNOFOSSIL MIXED SEDIMENT is commonly bioturbated, with many large burrows, Zoophycos and Chondrites traces.

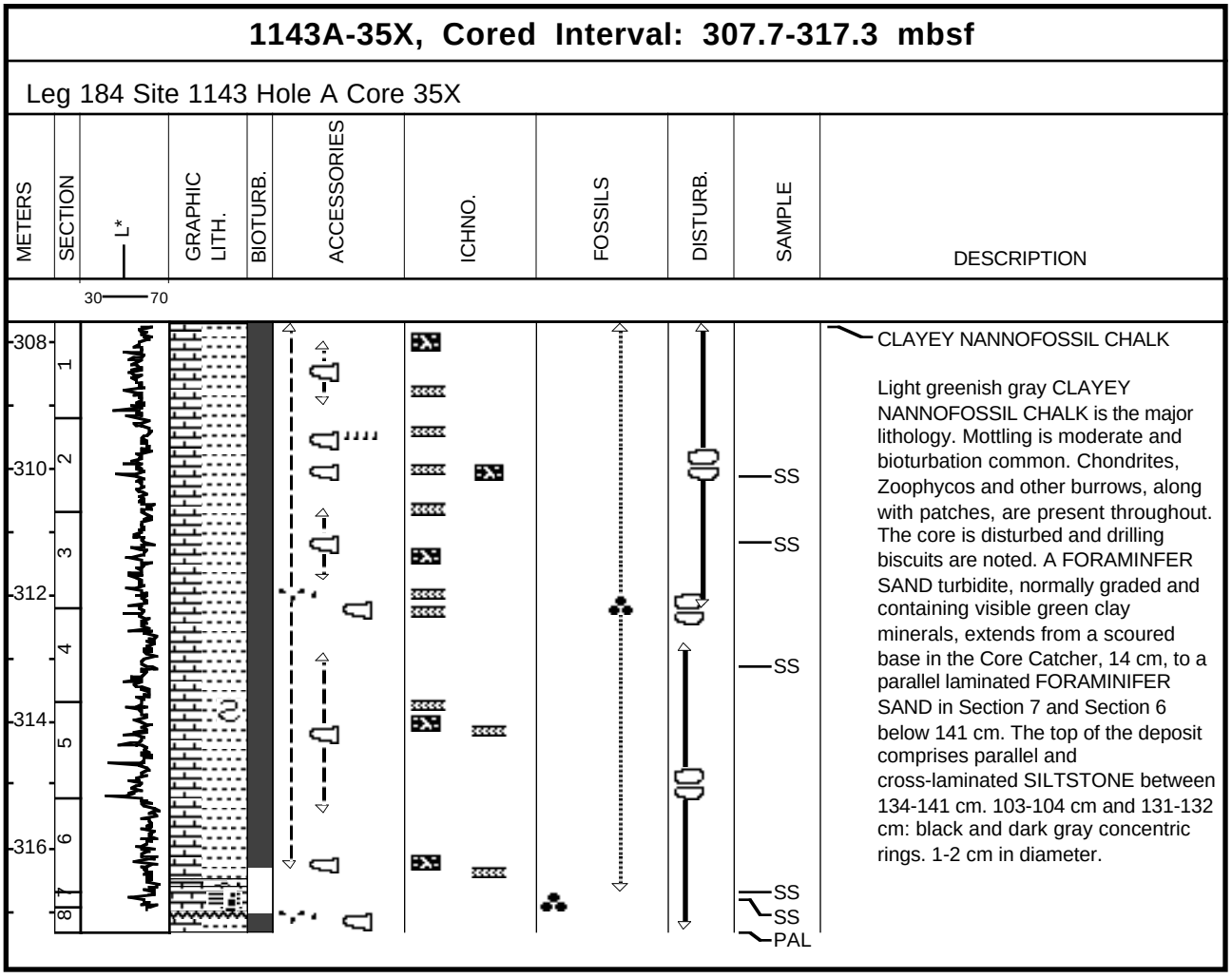
Core Photo


1143A-33X, Cored Interval: 288.5-298.1 mbsf
Leg 184 Site 1143 Hole A Core 33X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
290
292
294
296
298
1
2
3
4
5
6
7
8
Py
IW
SS
SS
SS
PAL
NANNOFOSSIL CLAY MIXED SEDIMENT
The sediment consists of dark brownish green and medium gray green NANNOFOSSIL CLAY MIXED SEDIMENT; the dark layers contain more clay than the light layers. There is a FORAMINIFER OOZE layer in Section 6, 50-85 cm. This interval has both sand and silt laminae and layers, and is normally graded in some intervals. An interval of wavy laminae occurs in Section 5 at 110 cm, within the NANNOFOSSIL CLAY MIXED SEDIMENT. The sediment is bioturbated, and Zoophycos and Chondrites traces are common. The core has been moderately affected by drilling and consists of biscuits floating in slurry.

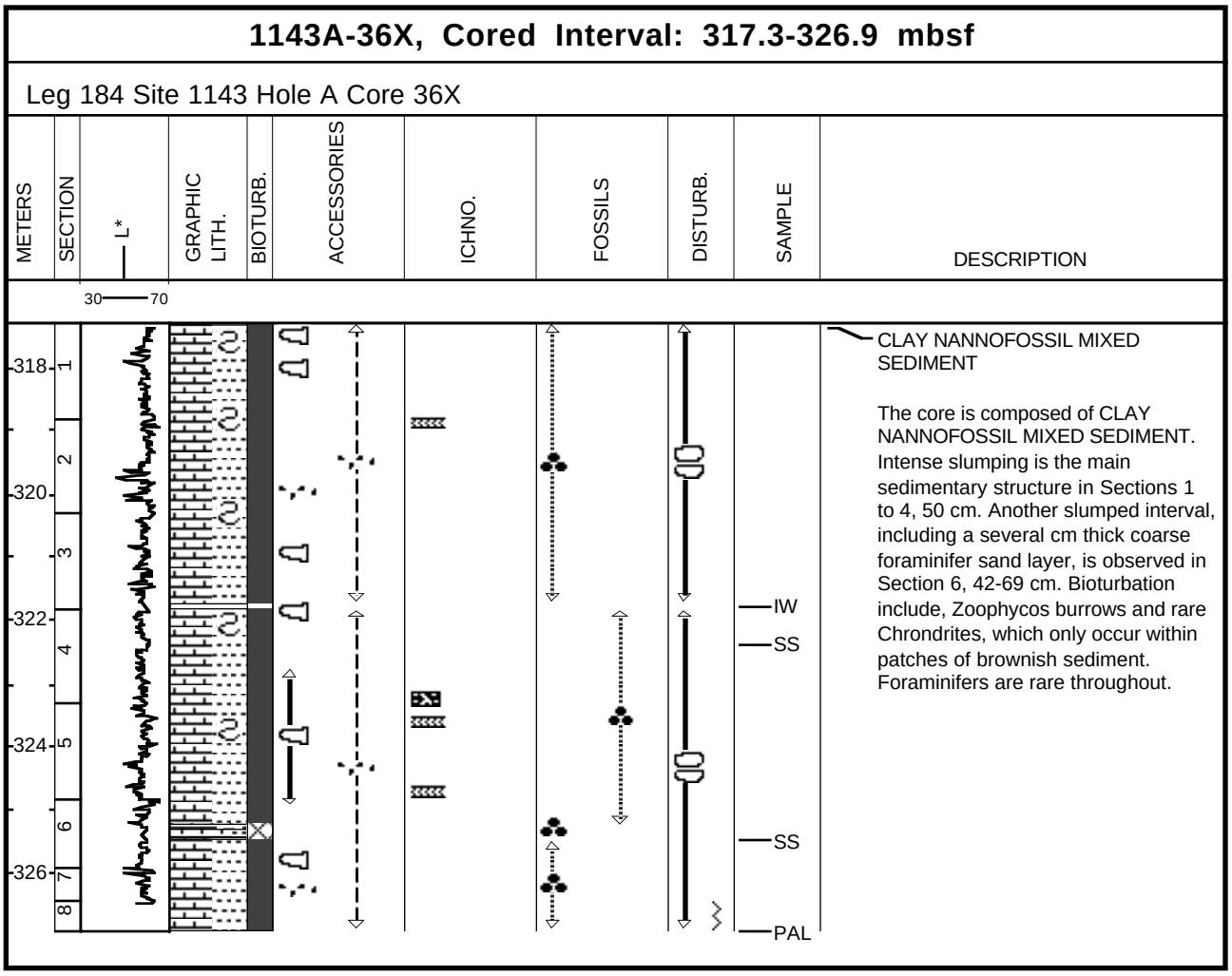
Core Photo


1143A-34X, Cored Interval: 298.1-307.7 mbsf
Leg 184 Site 1143 Hole A Core 34X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
300
302
304
306
1
2
3
4
5
6
7
Py
SS
SS
SS
PAL
CLAY NANNOFOSSIL MIXED SEDIMENT
The core consists of CLAY NANNOFOSSIL MIXED SEDIMENT, commonly bioturbated and mottled. Chondrites, Zoophycos and other burrows are noted. The core is moderately disturbed and drilling biscuits are observed throughout. A FORAMINIFER CHALK turbidite, normal, graded, with sharp basal contact and laminations is present in Section 4, 134-150 cm. The interval above, 120-134 cm, presents wavy parallel bedding. Few foraminifer-rich centimeter-scale layers are observed.

Core Photo


1143A-35X, Cored Interval: 307.7-317.3 mbsf
Leg 184 Site 1143 Hole A Core 35X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
308
310
312
314
316
1
2
3
4
5
6
7
8
SS
SS
SS
SS
SS
PAL
CLAYEY NANNOFOSSIL CHALK
Light greenish gray CLAYEY NANNOFOSSIL CHALK is the major lithology. Mottling is moderate and bioturbation common. Chondrites, Zoophycos and other burrows, along with patches, are present throughout. The core is disturbed and drilling biscuits are noted. A FORAMINFER SAND turbidite, normally graded and containing visible green clay minerals, extends from a scoured base in the Core Catcher, 14 cm, to a parallel laminated FORAMINIFER SAND in Section 7 and Section 6 below 141 cm. The top of the deposit comprises parallel and cross-laminated SILTSTONE between 134-141 cm. 103-104 cm and 131-132 cm: black and dark gray concentric rings. 1-2 cm in diameter.

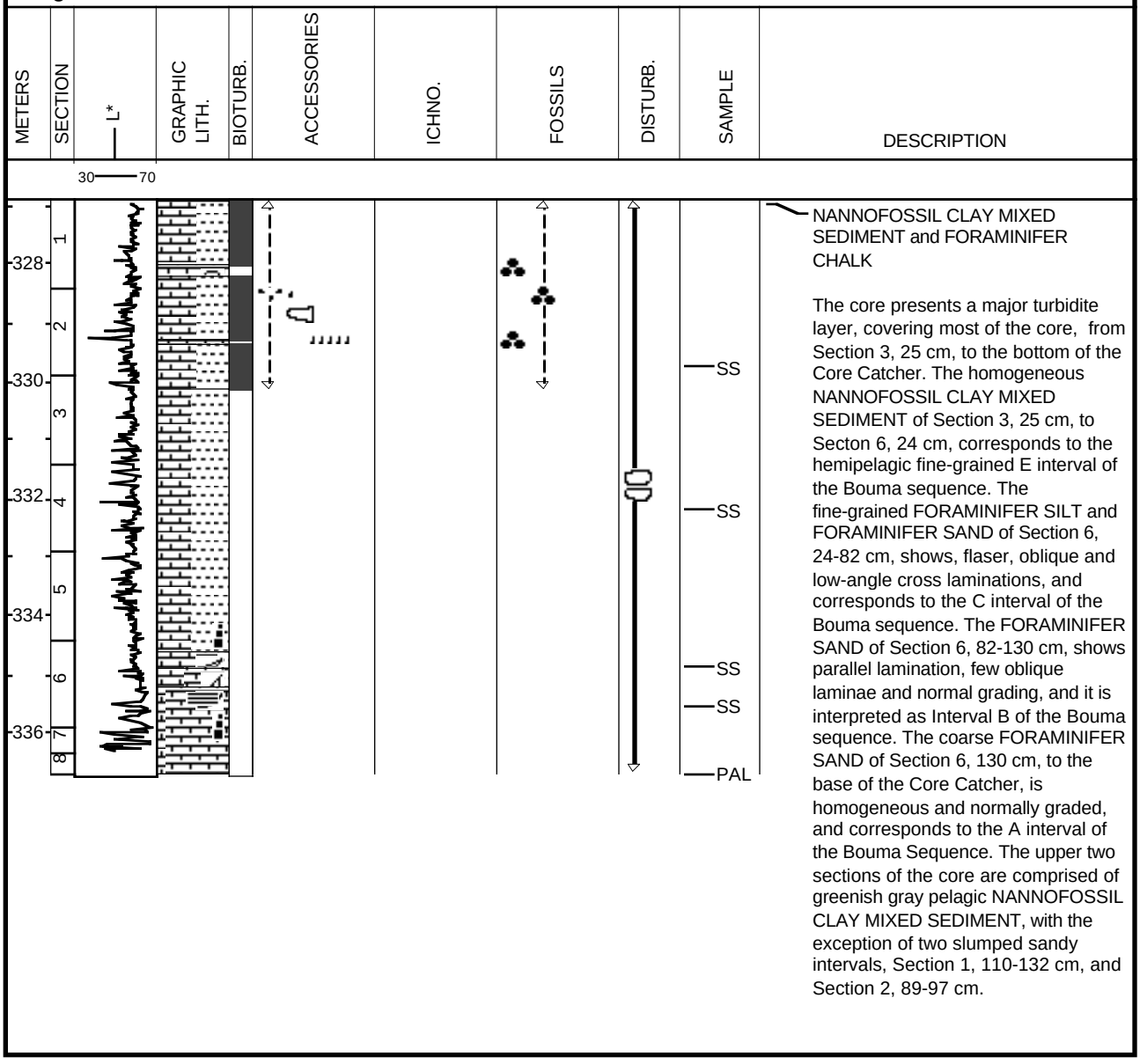
Core Photo


1143A-36X, Cored Interval: 317.3-326.9 mbsf
Leg 184 Site 1143 Hole A Core 36X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
318
320
322
324
326
1
2
3
4
5
6
7
8
IW
SS
SS
PAL
CLAY NANNOFOSSIL MIXED SEDIMENT
The core is composed of CLAY NANNOFOSSIL MIXED SEDIMENT. Intense slumping is the main sedimentary structure in Sections 1 to 4, 50 cm. Another slumped interval, including a several cm thick coarse foraminifer sand layer, is observed in Section 6, 42-69 cm. Bioturbation include, Zoophycos burrows and rare Chrondrites, which only occur within patches of brownish sediment. Foraminifers are rare throughout.

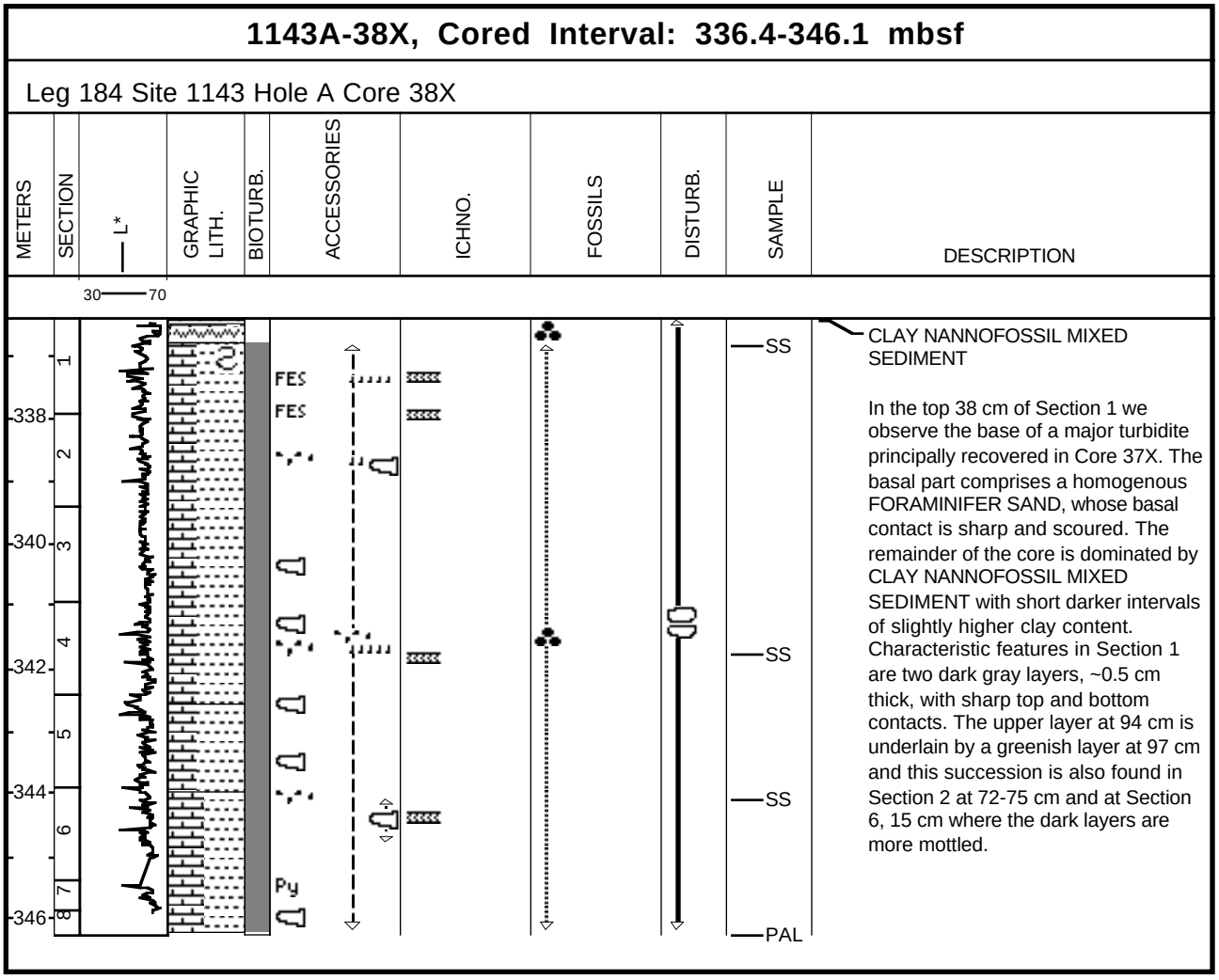
Core Photo

1143A-37X, Cored Interval: 326.9-336.4 mbsf

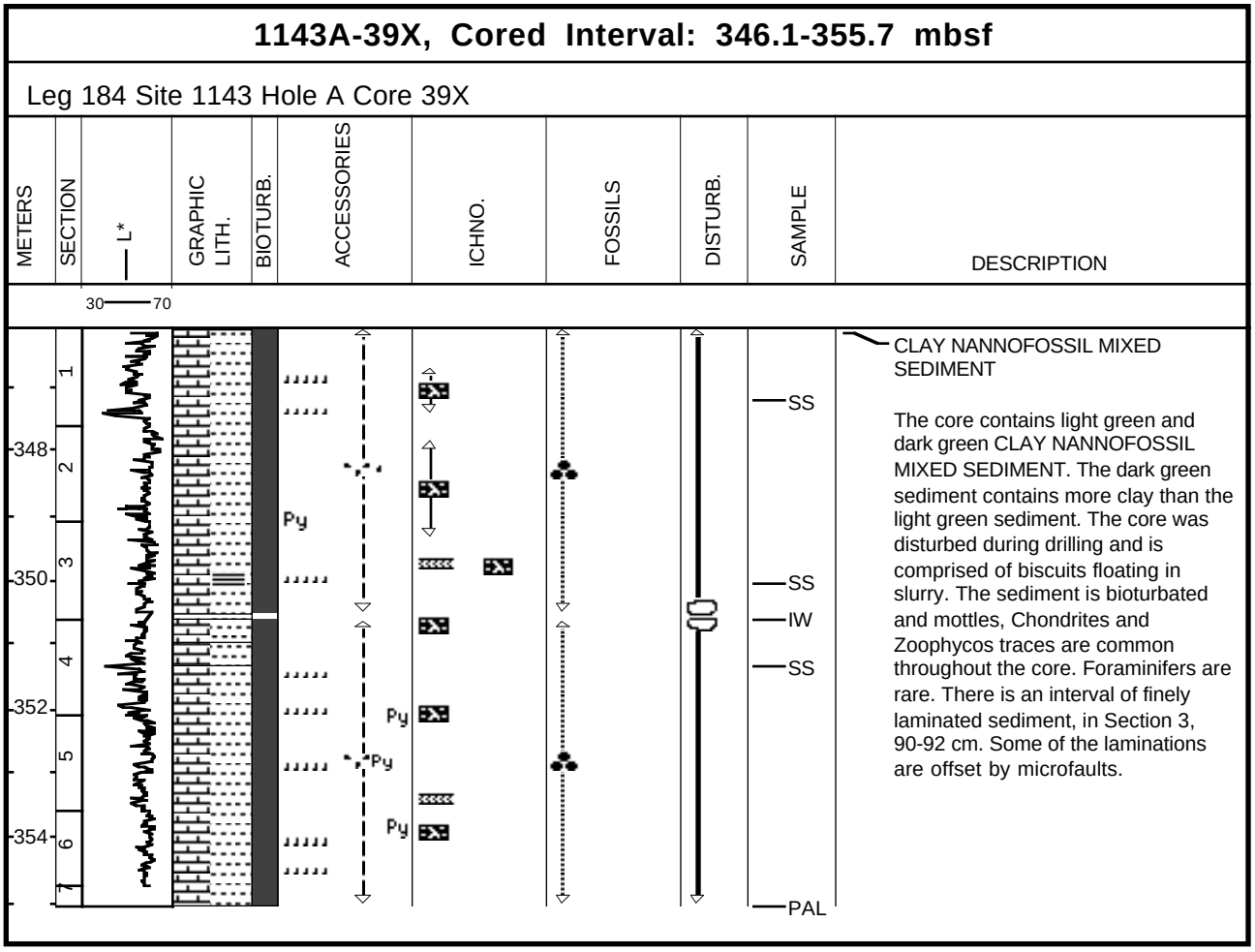
Leg 184 Site 1143 Hole A Core 37X



Core Photo


1143A-38X, Cored Interval: 336.4-346.1 mbsf
Leg 184 Site 1143 Hole A Core 38X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
338
340
342
344
346
1
2
3
4
5
6
7
FES
FES
Pg
SS
SS
SS
PAL
CLAY NANNOFOSSIL MIXED SEDIMENT
In the top 38 cm of Section 1 we observe the base of a major turbidite principally recovered in Core 37X. The basal part comprises a homogenous FORAMINIFER SAND, whose basal contact is sharp and scoured. The remainder of the core is dominated by CLAY NANNOFOSSIL MIXED SEDIMENT with short darker intervals of slightly higher clay content. Characteristic features in Section 1 are two dark gray layers, ~0.5 cm thick, with sharp top and bottom contacts. The upper layer at 94 cm is underlain by a greenish layer at 97 cm and this succession is also found in Section 2 at 72-75 cm and at Section 6, 15 cm where the dark layers are more mottled.

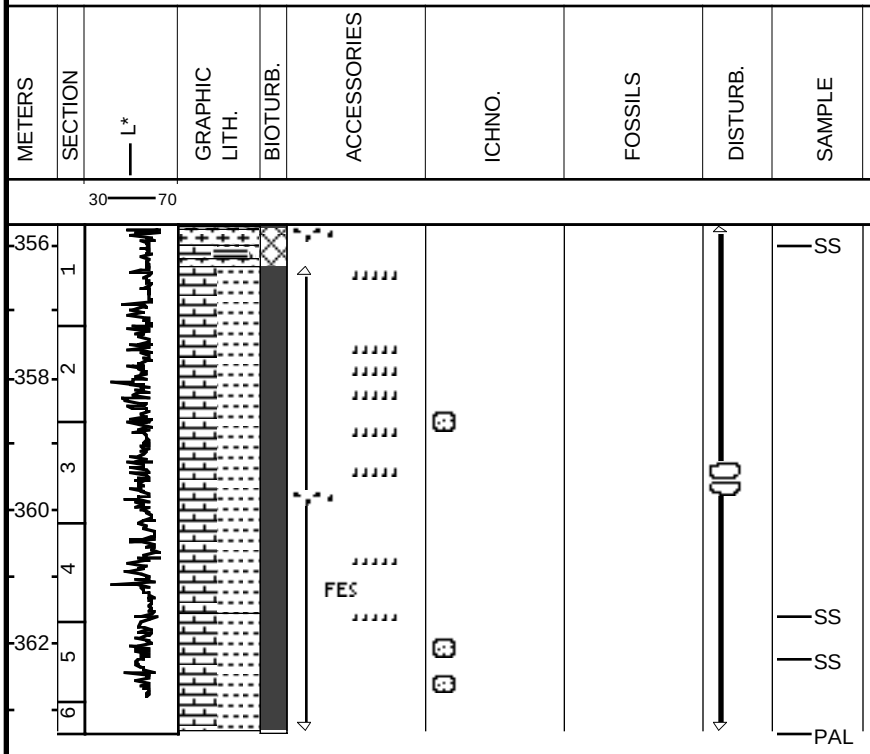
Core Photo


1143A-39X, Cored Interval: 346.1-355.7 mbsf
Leg 184 Site 1143 Hole A Core 39X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
348
350
352
354
1
2
3
4
5
6
7
Py
Py
Py
Py
SS
SS
IW
SS
PAL
CLAY NANNOFOSSIL MIXED SEDIMENT
The core contains light green and dark green CLAY NANNOFOSSIL MIXED SEDIMENT. The dark green sediment contains more clay than the light green sediment. The core was disturbed during drilling and is comprised of biscuits floating in slurry. The sediment is bioturbated and mottles, Chondrites and Zoophycos traces are common throughout the core. Foraminifers are rare. There is an interval of finely laminated sediment, in Section 3, 90-92 cm. Some of the laminations are offset by microfaults.

Core Photo

1143A-40X, Cored Interval: 355.7-364.9 mbsf

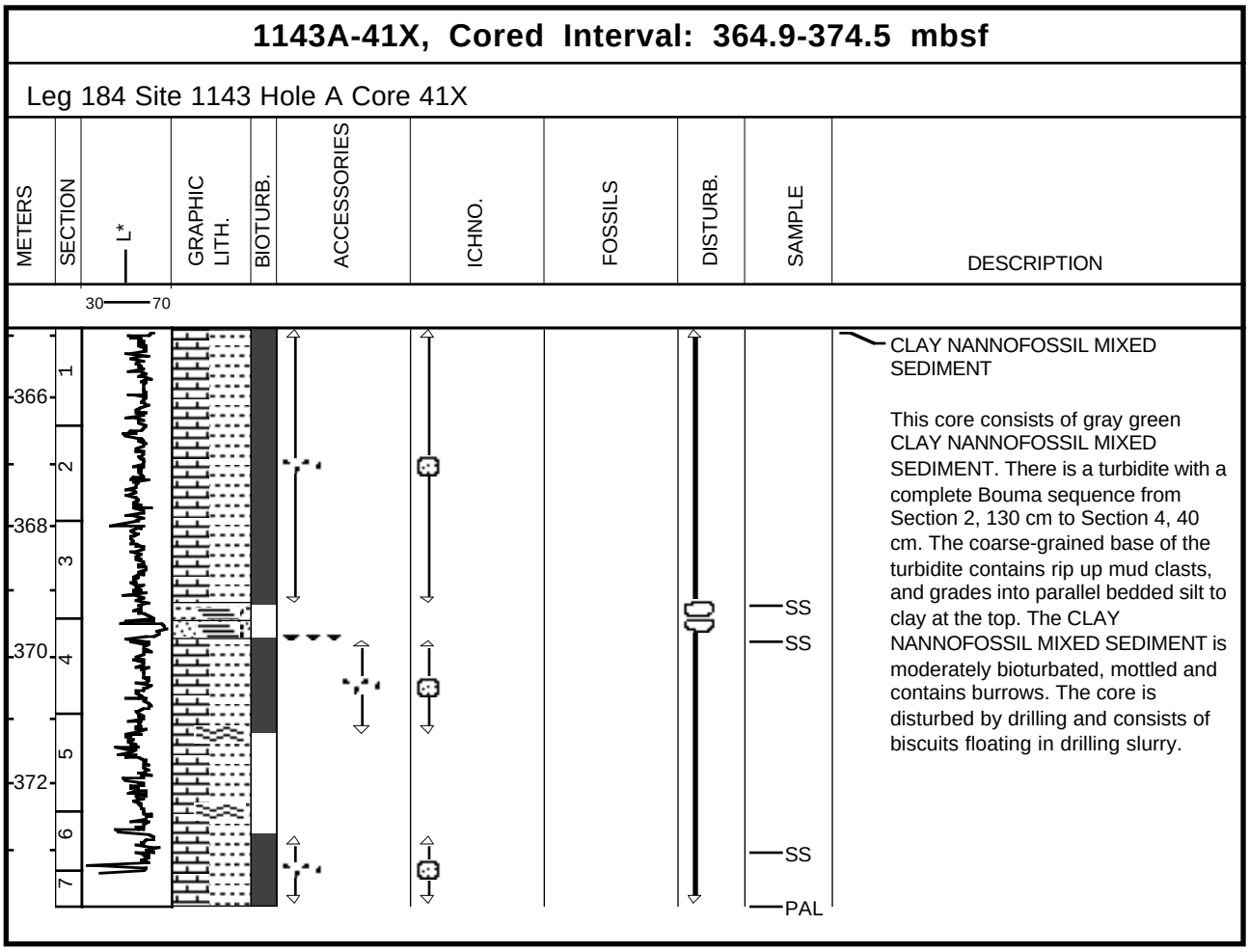
Leg 184 Site 1143 Hole A Core 40X



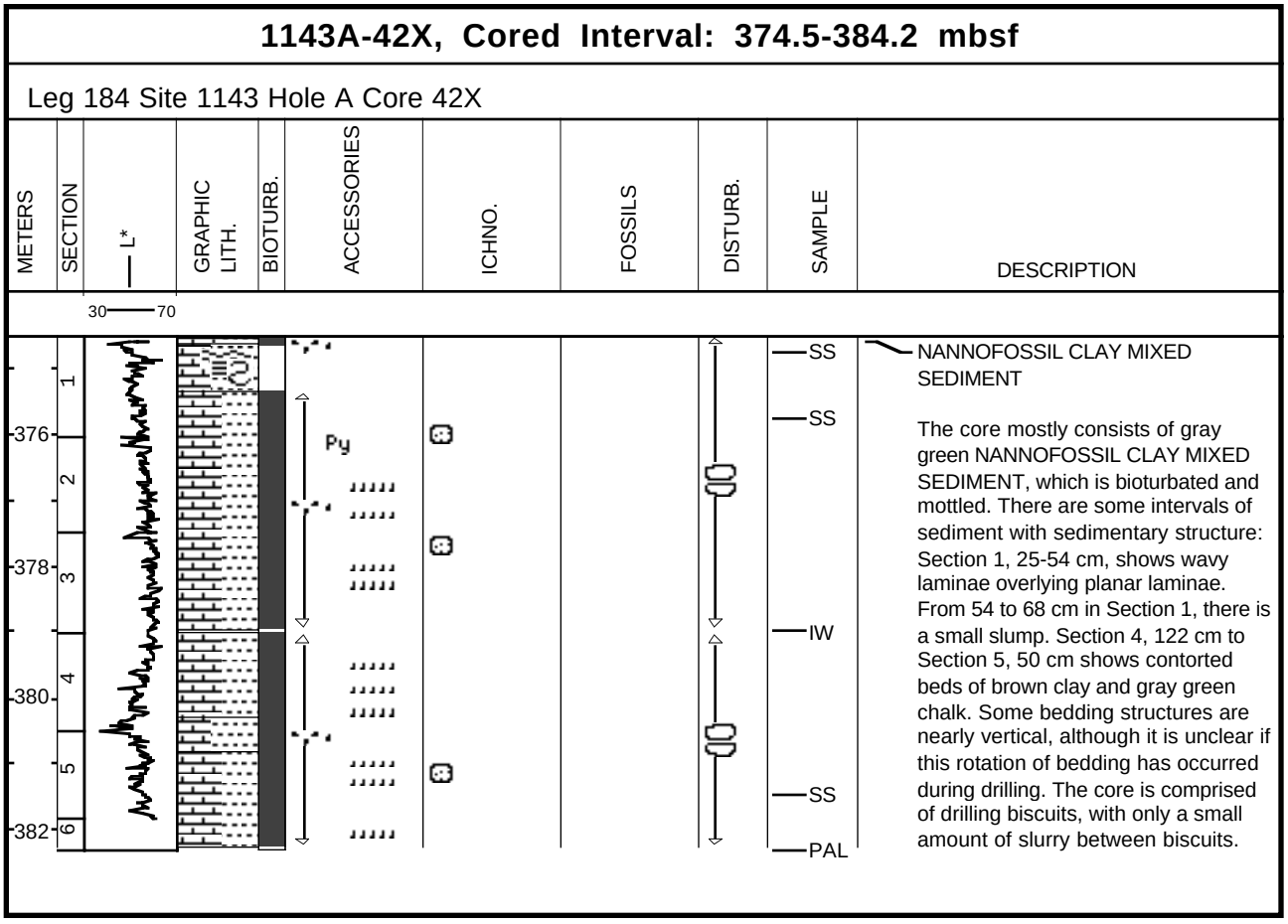
NANNOFOSSIL CLAY MIXED SEDIMENT

The core contains light gray green NANNOFOSSIL CLAY MIXED SEDIMENT and FORMINIFER SAND. There are forminifer sand layers in Section 1, 64-67 cm and 17-31 cm, with sharp bottom contacts. Between these two sand layers is clay with wavy to convolute lamination, which contains green mineral clasts. There is another thin sand layer in Section 4, 135-137 cm. Bioturbation is common in the mixed sediment, but absent in the sand and the laminated clay. Foraminifers are absent in the mixed sediment. The entire core is disturbed by drilling, and consists of biscuits floating in slurry.

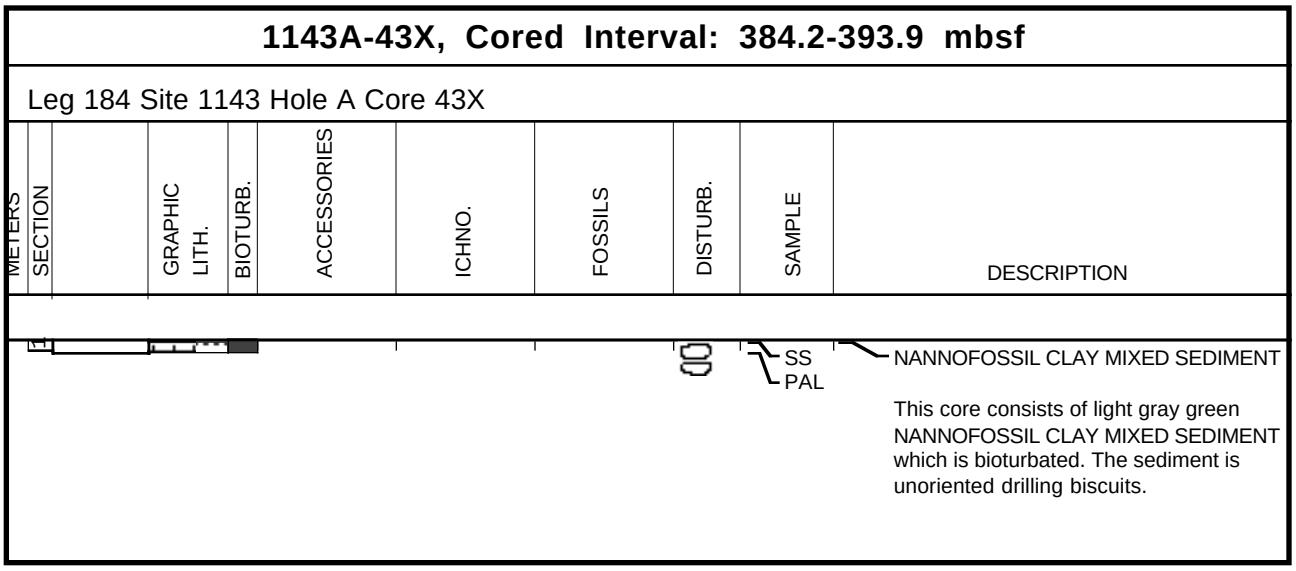
Core Photo


1143A-41X, Cored Interval: 364.9-374.5 mbsf
Leg 184 Site 1143 Hole A Core 41X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
366
368
370
372
1
2
3
4
5
6
7
SS
SS
SS
PAL
CLAY NANNOFOSSIL MIXED SEDIMENT
This core consists of gray green CLAY NANNOFOSSIL MIXED SEDIMENT. There is a turbidite with a complete Bouma sequence from Section 2, 130 cm to Section 4, 40 cm. The coarse-grained base of the turbidite contains rip up mud clasts, and grades into parallel bedded silt to clay at the top. The CLAY NANNOFOSSIL MIXED SEDIMENT is moderately bioturbated, mottled and contains burrows. The core is disturbed by drilling and consists of biscuits floating in drilling slurry.

Core Photo


1143A-42X, Cored Interval: 374.5-384.2 mbsf
Leg 184 Site 1143 Hole A Core 42X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
376
378
380
382
1
2
3
4
5
6
Py
SS
SS
IW
SS
PAL
NANNOFOSSIL CLAY MIXED SEDIMENT
The core mostly consists of gray green NANNOFOSSIL CLAY MIXED SEDIMENT, which is bioturbated and mottled. There are some intervals of sediment with sedimentary structure: Section 1, 25-54 cm, shows wavy laminae overlying planar laminae. From 54 to 68 cm in Section 1, there is a small slump. Section 4, 122 cm to Section 5, 50 cm shows contorted beds of brown clay and gray green chalk. Some bedding structures are nearly vertical, although it is unclear if this rotation of bedding has occurred during drilling. The core is comprised of drilling biscuits, with only a small amount of slurry between biscuits.

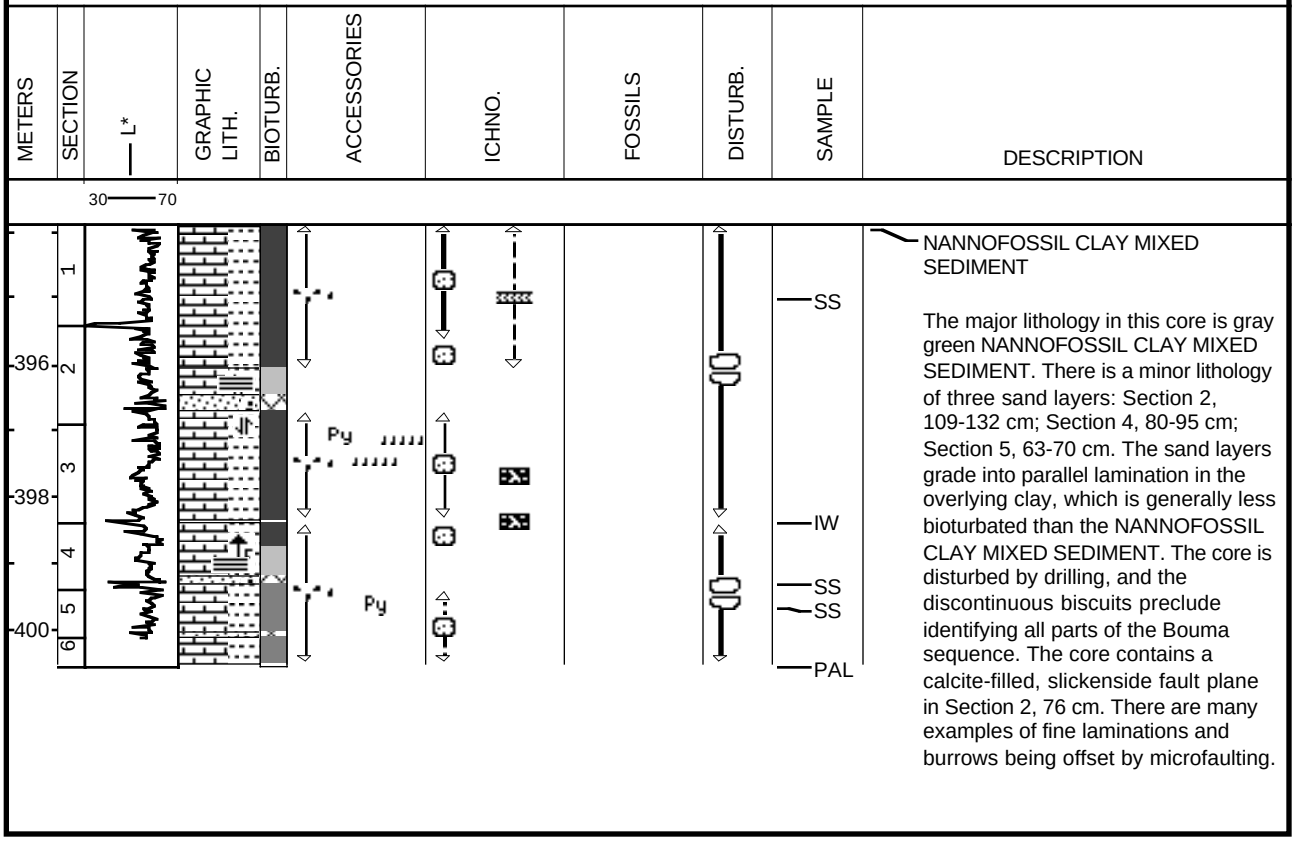
Core Photo


1143A-43X, Cored Interval: 384.2-393.9 mbsf
Leg 184 Site 1143 Hole A Core 43X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
SS
PAL
NANNOFOSSIL CLAY MIXED SEDIMENT
This core consists of light gray green NANNOFOSSIL CLAY MIXED SEDIMENT which is bioturbated. The sediment is unoriented drilling biscuits.

Core Photo

1143A-44X, Cored Interval: 393.9-400.0 mbsf

Leg 184 Site 1143 Hole A Core 44X

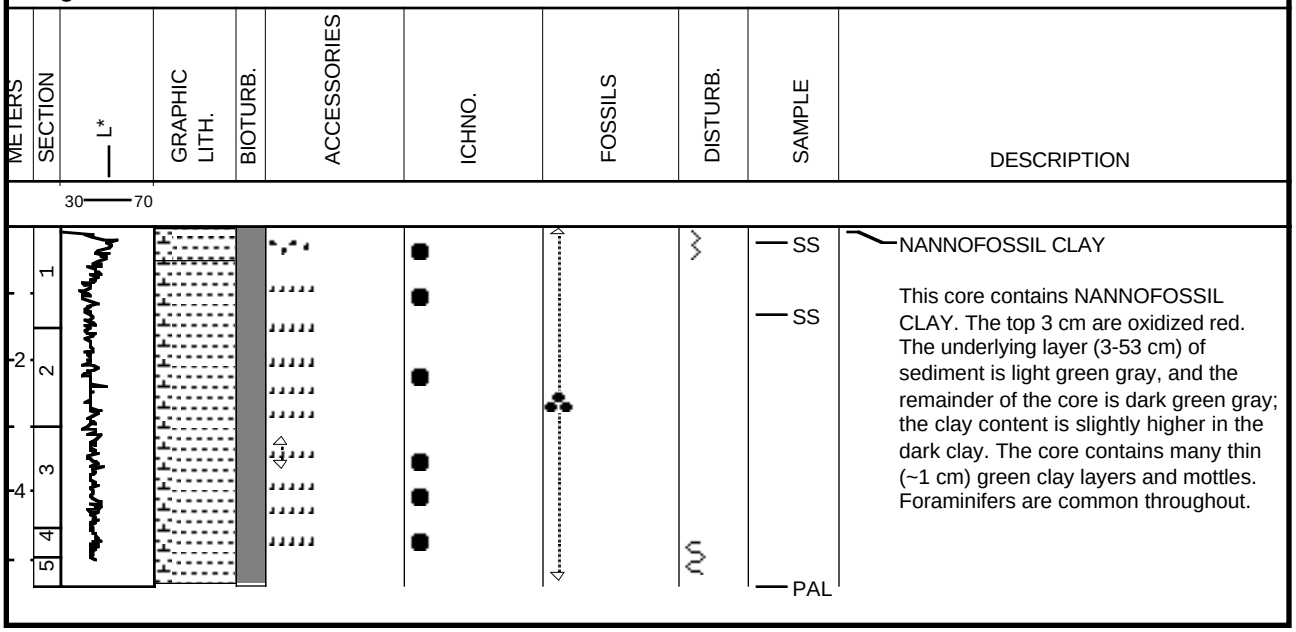


The major lithology in this core is gray green NANNOFOSSIL CLAY MIXED SEDIMENT. There is a minor lithology of three sand layers: Section 2, 109-132 cm; Section 4, 80-95 cm; Section 5, 63-70 cm. The sand layers grade into parallel lamination in the overlying clay, which is generally less bioturbated than the NANNOFOSSIL CLAY MIXED SEDIMENT. The core is disturbed by drilling, and the discontinuous biscuits preclude identifying all parts of the Bouma sequence. The core contains a calcite-filled, slickenside fault plane in Section 2, 76 cm. There are many examples of fine laminations and burrows being offset by microfaulting.

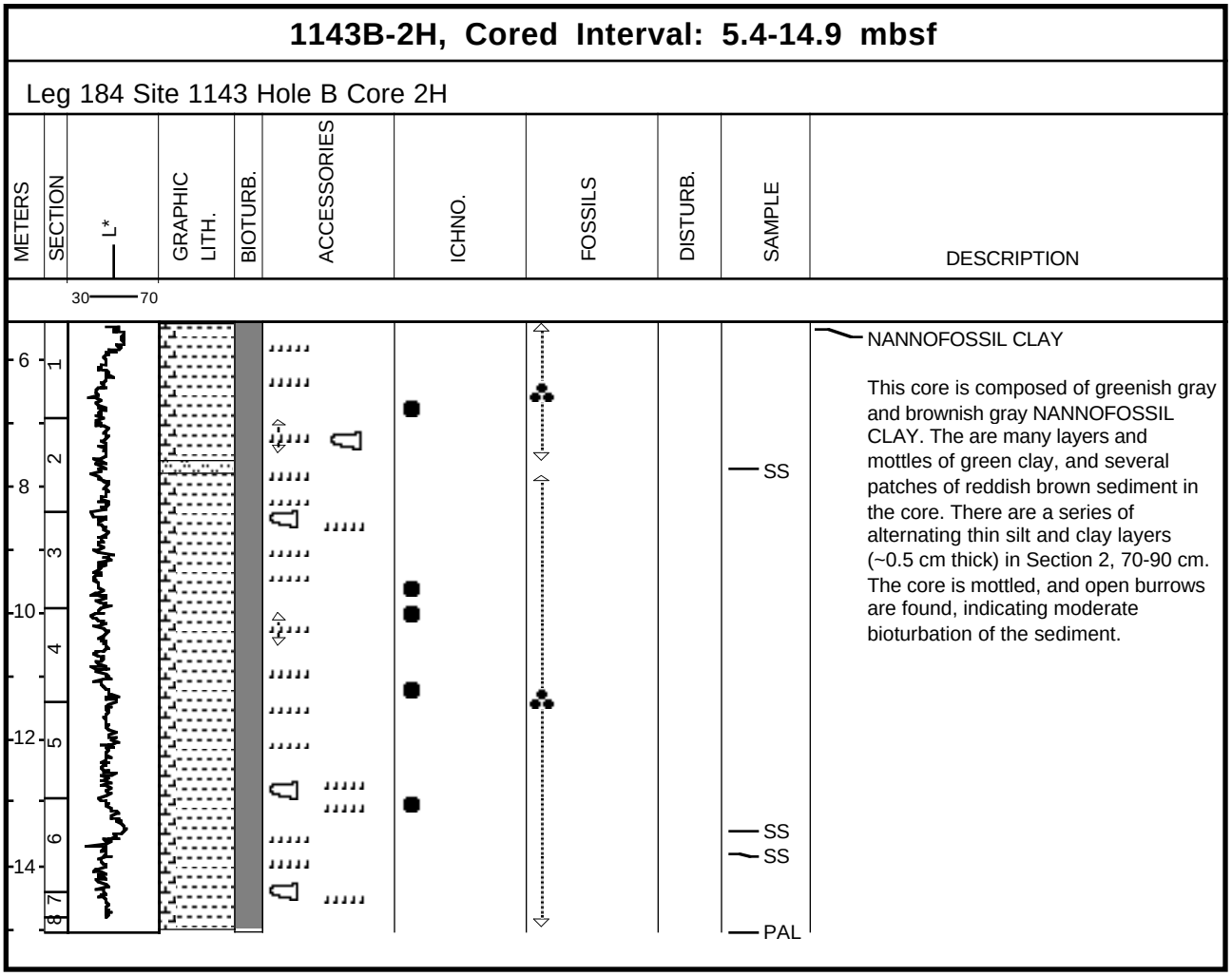
Core Photo

1143B-1H, Cored Interval: 0.0-5.4 mbsf

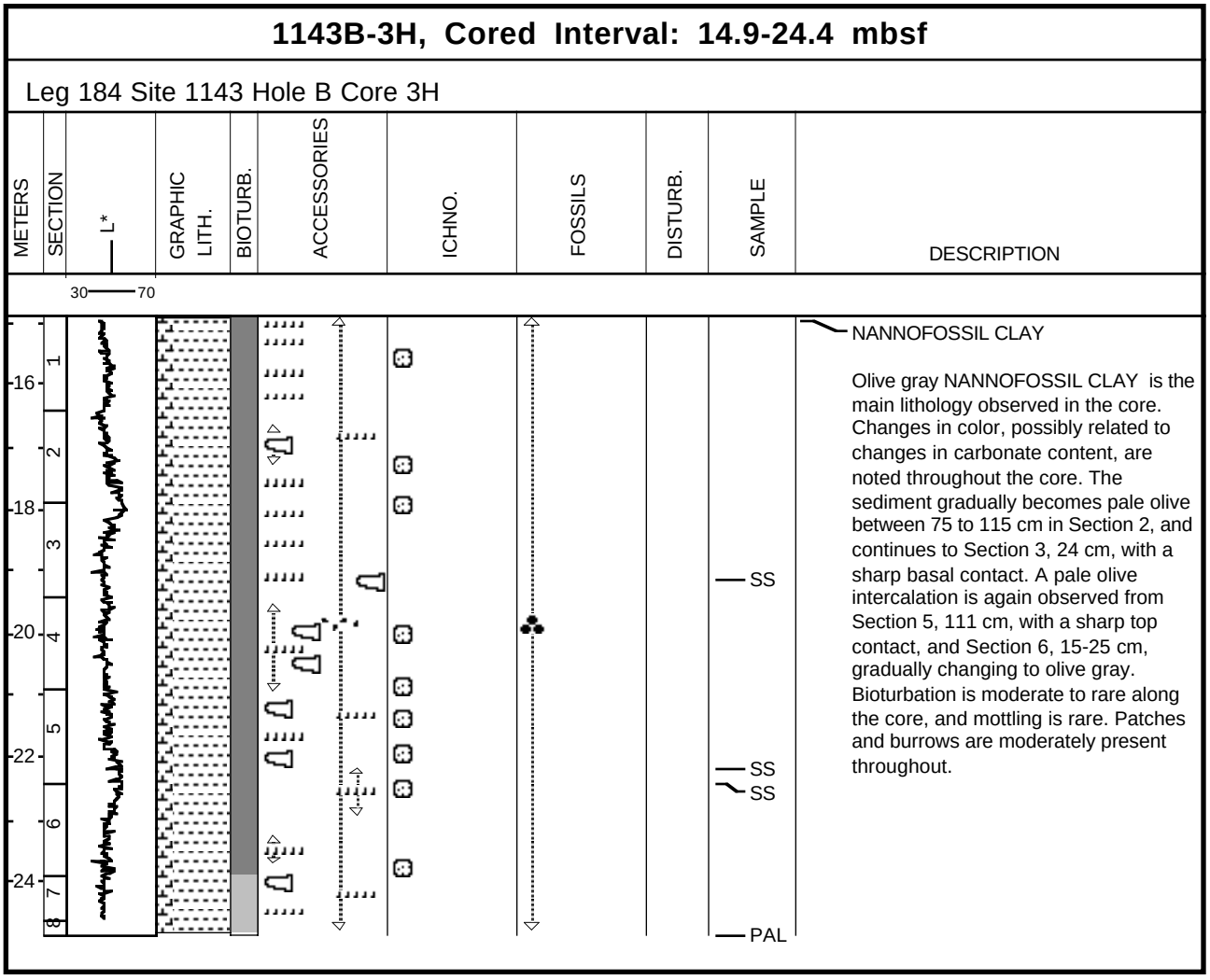
Leg 184 Site 1143 Hole B Core 1H



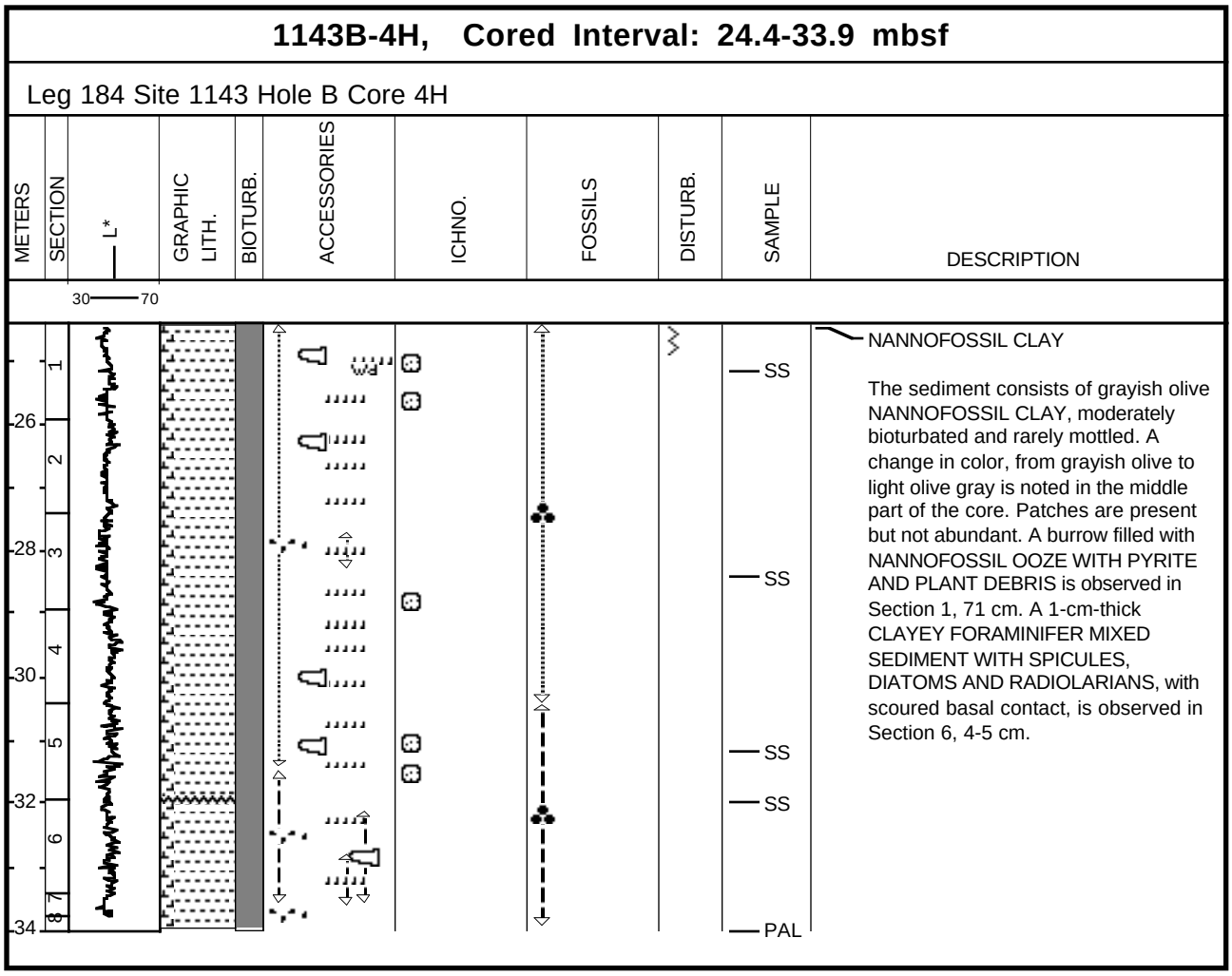
Core Photo


1143B-2H, Cored Interval: 5.4-14.9 mbsf
Leg 184 Site 1143 Hole B Core 2H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
6
8
10
12
14
1
2
3
4
5
6
7
SS
SS
SS
PAL
NANNOFOSSIL CLAY
This core is composed of greenish gray and brownish gray NANNOFOSSIL CLAY. The are many layers and mottles of green clay, and several patches of reddish brown sediment in the core. There are a series of alternating thin silt and clay layers (~0.5 cm thick) in Section 2, 70-90 cm. The core is mottled, and open burrows are found, indicating moderate bioturbation of the sediment.

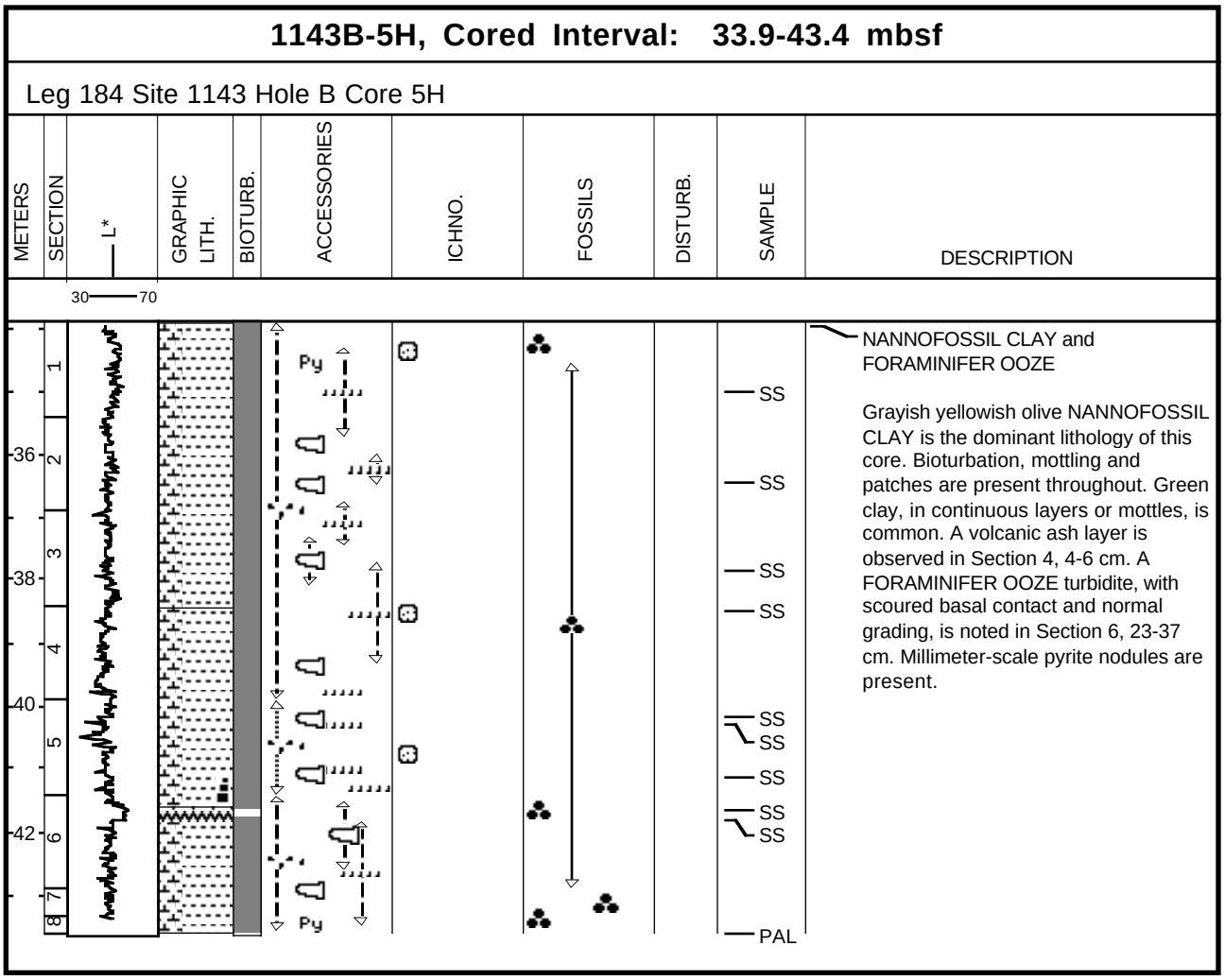
Core Photo


1143B-3H, Cored Interval: 14.9-24.4 mbsf
Leg 184 Site 1143 Hole B Core 3H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
16
18
20
22
24
1
2
3
4
5
6
7
SS
SS
SS
PAL
NANNOFOSSIL CLAY
Olive gray NANNOFOSSIL CLAY is the main lithology observed in the core. Changes in color, possibly related to changes in carbonate content, are noted throughout the core. The sediment gradually becomes pale olive between 75 to 115 cm in Section 2, and continues to Section 3, 24 cm, with a sharp basal contact. A pale olive intercalation is again observed from Section 5, 111 cm, with a sharp top contact, and Section 6, 15-25 cm, gradually changing to olive gray. Bioturbation is moderate to rare along the core, and mottling is rare. Patches and burrows are moderately present throughout.

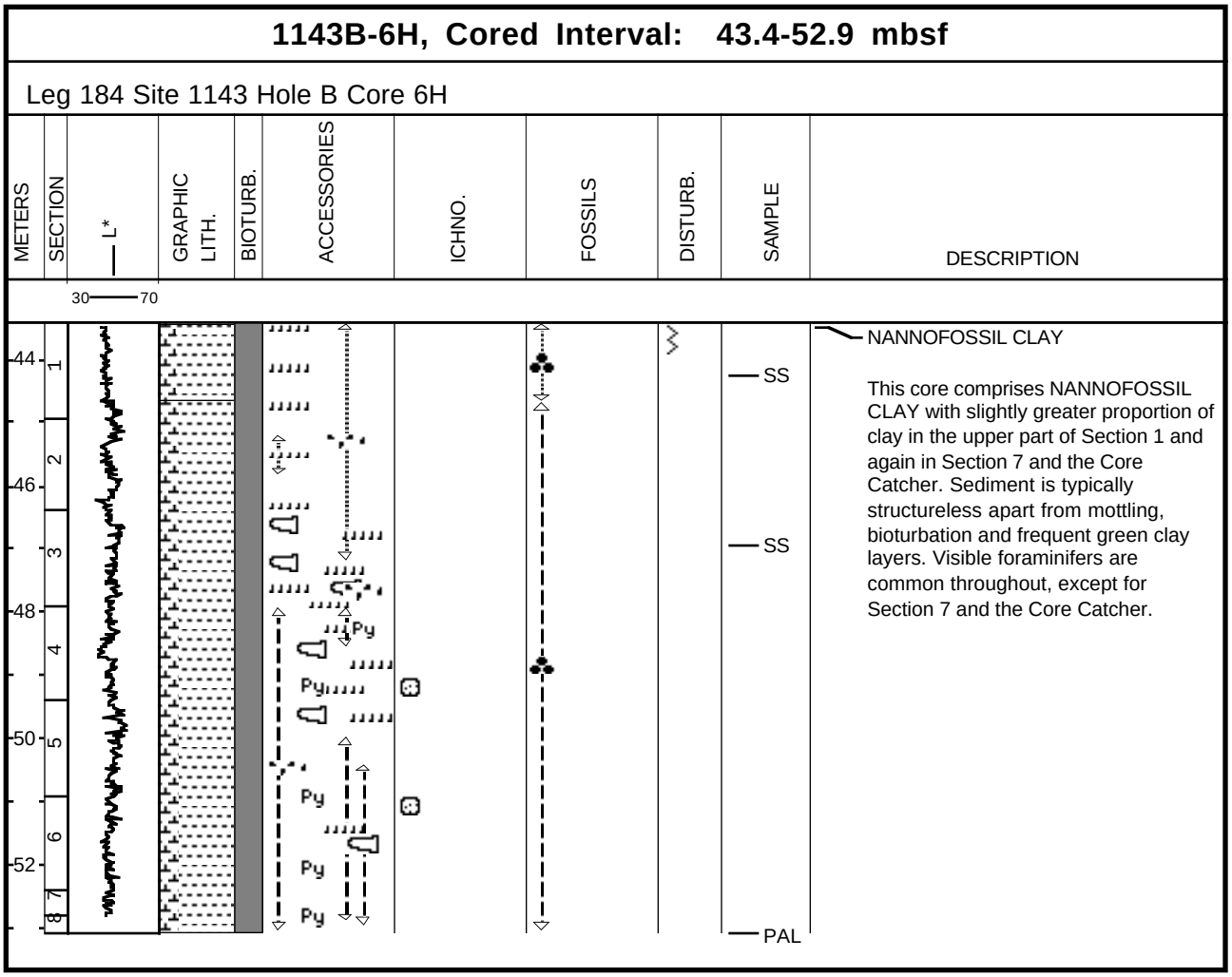
Core Photo


1143B-4H, Cored Interval: 24.4-33.9 mbsf
Leg 184 Site 1143 Hole B Core 4H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
26
28
30
32
34
1
2
3
4
5
6
7
8
SS
SS
SS
SS
PAL
NANNOFOSSIL CLAY
The sediment consists of grayish olive NANNOFOSSIL CLAY, moderately bioturbated and rarely mottled. A change in color, from grayish olive to light olive gray is noted in the middle part of the core. Patches are present but not abundant. A burrow filled with NANNOFOSSIL OOZE WITH PYRITE AND PLANT DEBRIS is observed in Section 1, 71 cm. A 1-cm-thick CLAYEY FORAMINIFER MIXED SEDIMENT WITH SPICULES, DIATOMS AND RADIOLARIANS, with scoured basal contact, is observed in Section 6, 4-5 cm.

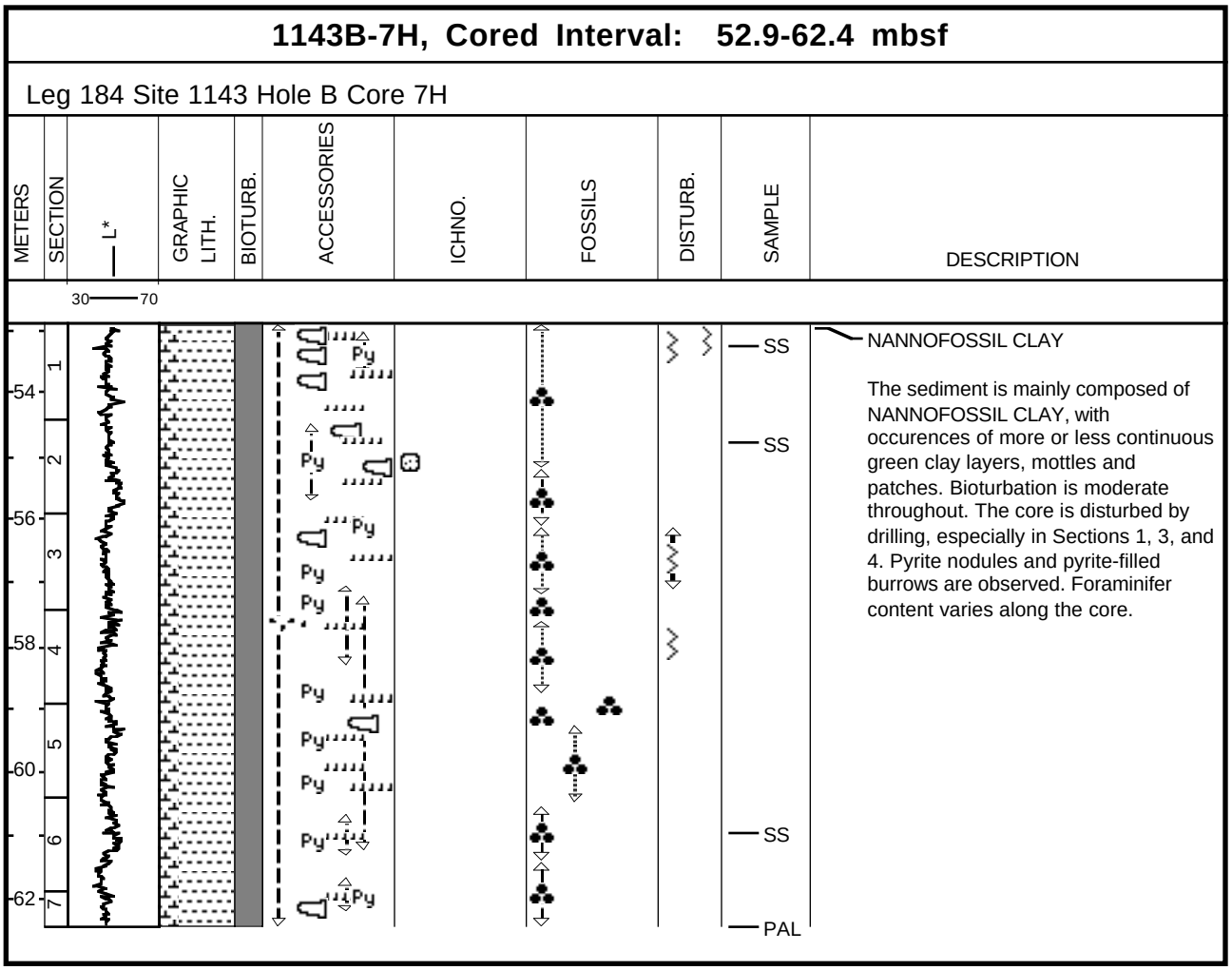
Core Photo


1143B-5H, Cored Interval: 33.9-43.4 mbsf
Leg 184 Site 1143 Hole B Core 5H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
36
38
40
42
1
2
3
4
5
6
7
8
Py
Py
SS
SS
SS
SS
SS
SS
SS
SS
PAL
NANNOFOSSIL CLAY and FORAMINIFER OOZE
Grayish yellowish olive NANNOFOSSIL CLAY is the dominant lithology of this core. Bioturbation, mottling and patches are present throughout. Green clay, in continuous layers or mottles, is common. A volcanic ash layer is observed in Section 4, 4-6 cm. A FORAMINIFER OOZE turbidite, with scoured basal contact and normal grading, is noted in Section 6, 23-37 cm. Millimeter-scale pyrite nodules are present.

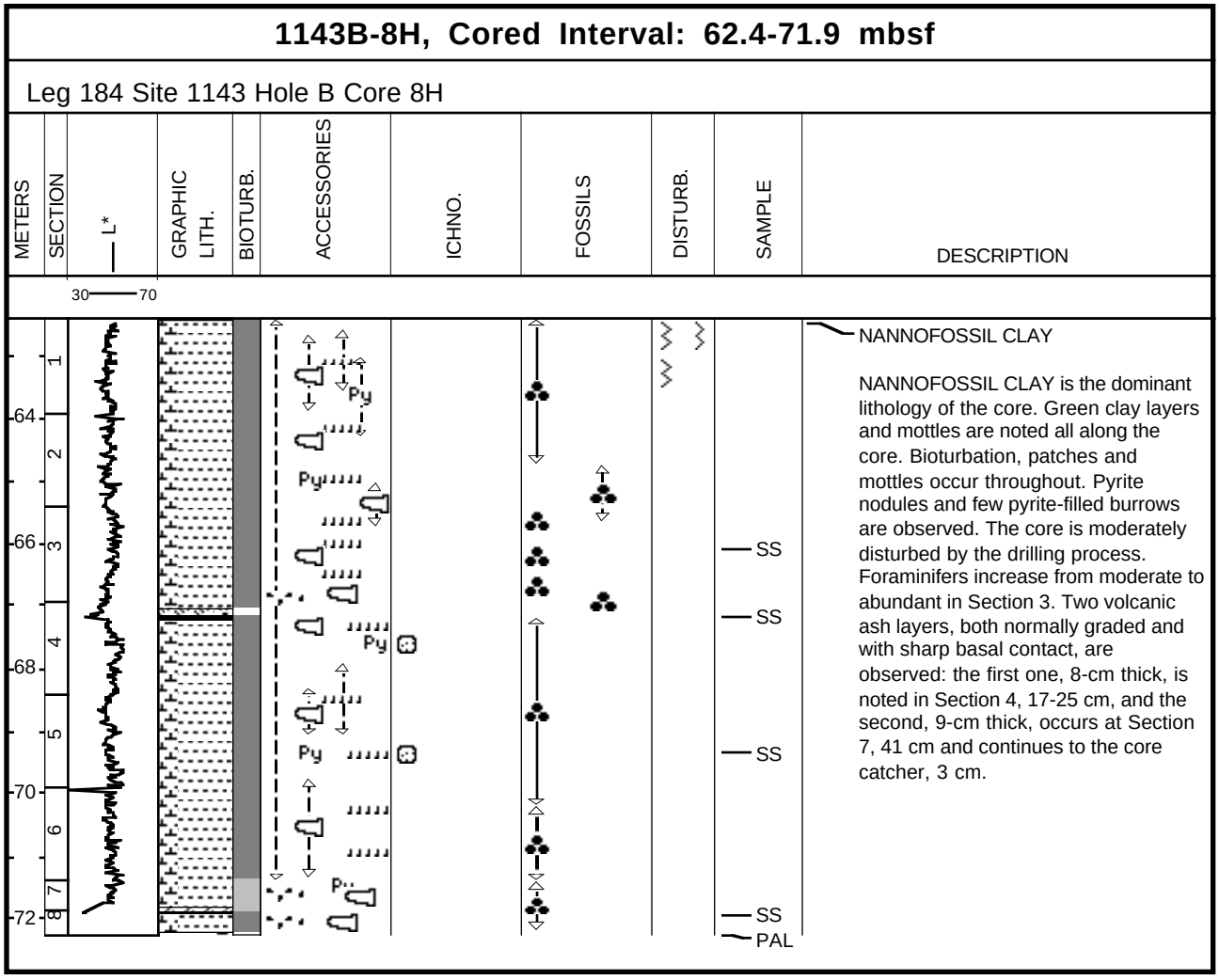
Core Photo


1143B-6H, Cored Interval: 43.4-52.9 mbsf
Leg 184 Site 1143 Hole B Core 6H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
44
46
48
50
52
1
2
3
4
5
6
7
Py
SS
SS
PAL
NANNOFOSSIL CLAY
This core comprises NANNOFOSSIL CLAY with slightly greater proportion of clay in the upper part of Section 1 and again in Section 7 and the Core Catcher. Sediment is typically structureless apart from mottling, bioturbation and frequent green clay layers. Visible foraminifers are common throughout, except for Section 7 and the Core Catcher.

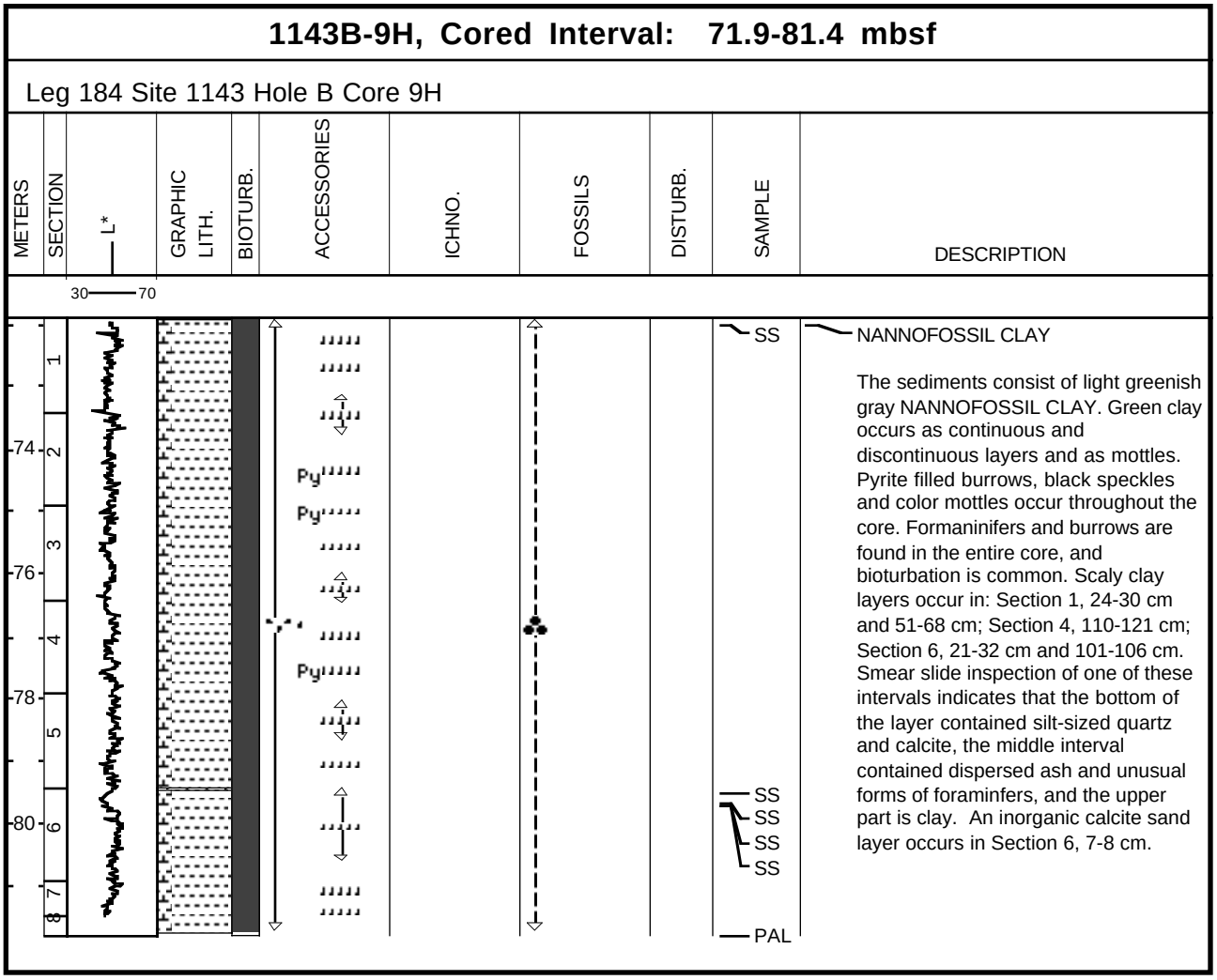
Core Photo


1143B-7H, Cored Interval: 52.9-62.4 mbsf
Leg 184 Site 1143 Hole B Core 7H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
54
56
58
60
62
1
2
3
4
5
6
7
Py
SS
SS
SS
PAL
NANNOFOSSIL CLAY
The sediment is mainly composed of NANNOFOSSIL CLAY, with occurences of more or less continuous green clay layers, mottles and patches. Bioturbation is moderate throughout. The core is disturbed by drilling, especially in Sections 1, 3, and 4. Pyrite nodules and pyrite-filled burrows are observed. Foraminifer content varies along the core.

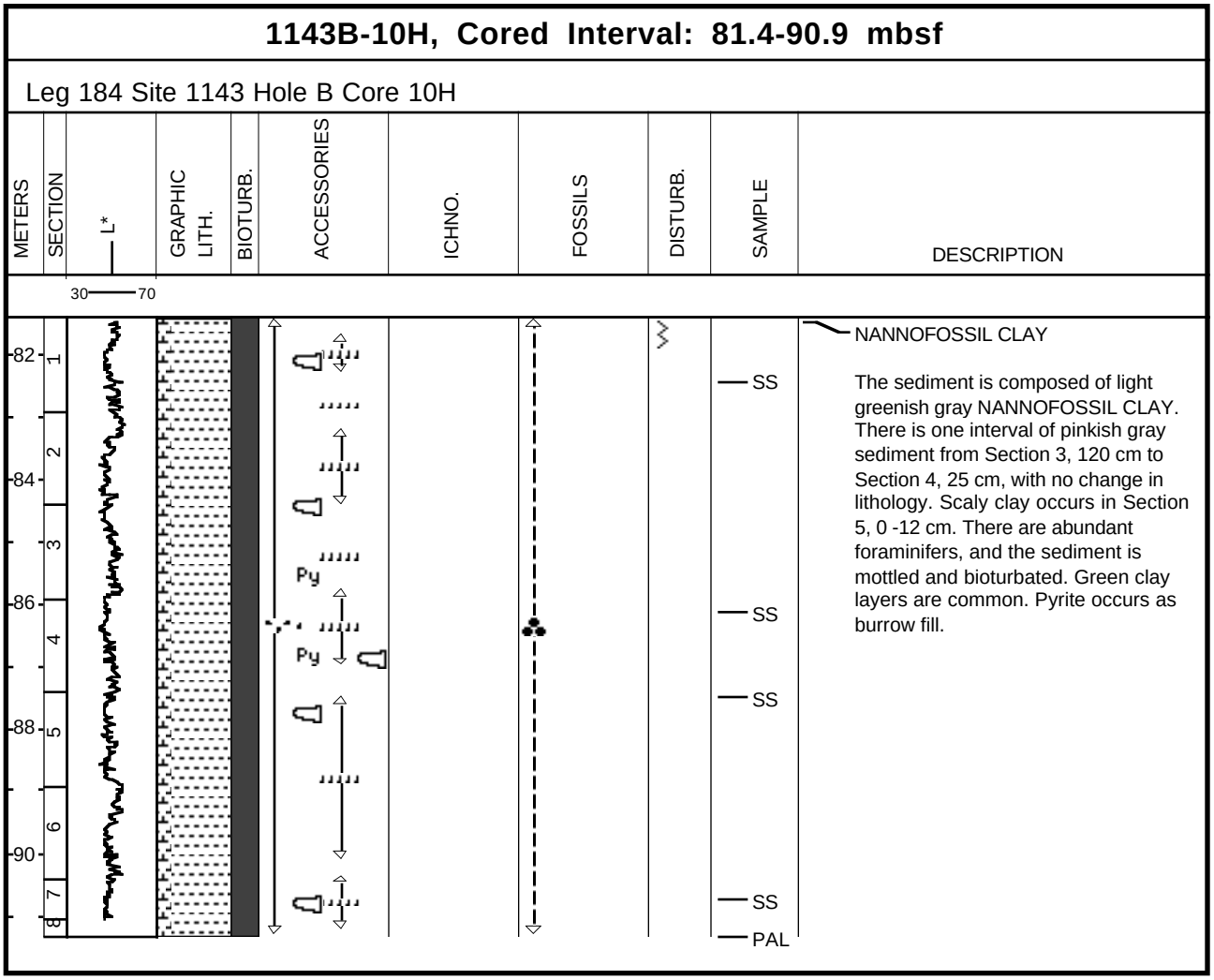
Core Photo


1143B-8H, Cored Interval: 62.4-71.9 mbsf
Leg 184 Site 1143 Hole B Core 8H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
64
66
68
70
72
1
2
3
4
5
6
7
8
Py
SS
SS
SS
SS
PAL
NANNOFOSSIL CLAY
NANNOFOSSIL CLAY is the dominant lithology of the core. Green clay layers and mottles are noted all along the core. Bioturbation, patches and mottles occur throughout. Pyrite nodules and few pyrite-filled burrows are observed. The core is moderately disturbed by the drilling process. Foraminifers increase from moderate to abundant in Section 3. Two volcanic ash layers, both normally graded and with sharp basal contact, are observed: the first one, 8-cm thick, is noted in Section 4, 17-25 cm, and the second, 9-cm thick, occurs at Section 7, 41 cm and continues to the core catcher, 3 cm.

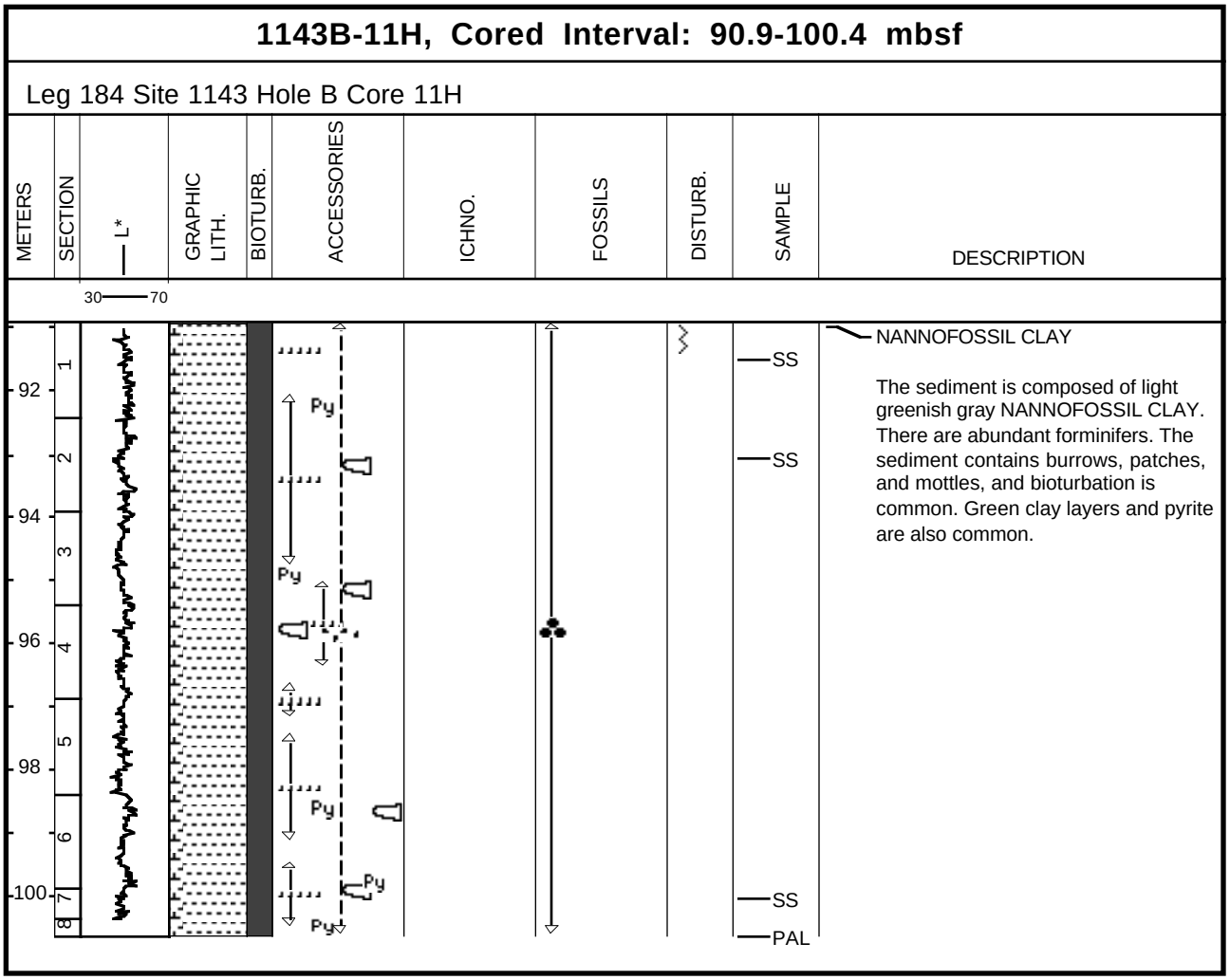
Core Photo


1143B-9H, Cored Interval: 71.9-81.4 mbsf
Leg 184 Site 1143 Hole B Core 9H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
74
76
78
80
1
2
3
4
5
6
7
Py
Py
Py
SS
SS
SS
SS
SS
PAL
NANNOFOSSIL CLAY
The sediments consist of light greenish gray NANNOFOSSIL CLAY. Green clay occurs as continuous and discontinuous layers and as mottles. Pyrite filled burrows, black speckles and color mottles occur throughout the core. Formaninifers and burrows are found in the entire core, and bioturbation is common. Scaly clay layers occur in: Section 1, 24-30 cm and 51-68 cm; Section 4, 110-121 cm; Section 6, 21-32 cm and 101-106 cm. Smear slide inspection of one of these intervals indicates that the bottom of the layer contained silt-sized quartz and calcite, the middle interval contained dispersed ash and unusual forms of foraminfers, and the upper part is clay. An inorganic calcite sand layer occurs in Section 6, 7-8 cm.

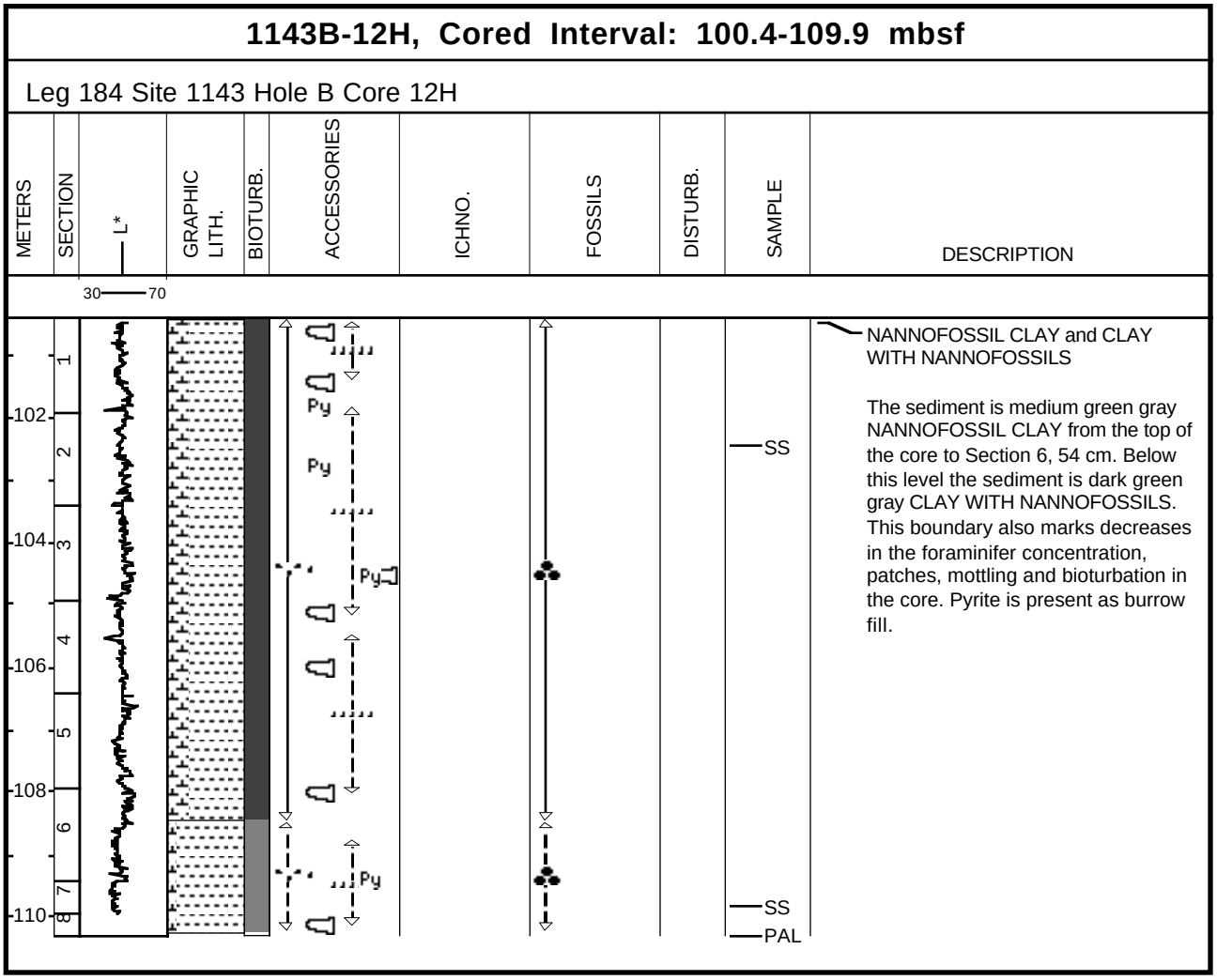
Core Photo


1143B-10H, Cored Interval: 81.4-90.9 mbsf
Leg 184 Site 1143 Hole B Core 10H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
82
84
86
88
90
1
2
3
4
5
6
7
Py
Py
SS
SS
SS
SS
PAL
NANNOFOSSIL CLAY
The sediment is composed of light greenish gray NANNOFOSSIL CLAY. There is one interval of pinkish gray sediment from Section 3, 120 cm to Section 4, 25 cm, with no change in lithology. Scaly clay occurs in Section 5, 0 -12 cm. There are abundant foraminifers, and the sediment is mottled and bioturbated. Green clay layers are common. Pyrite occurs as burrow fill.

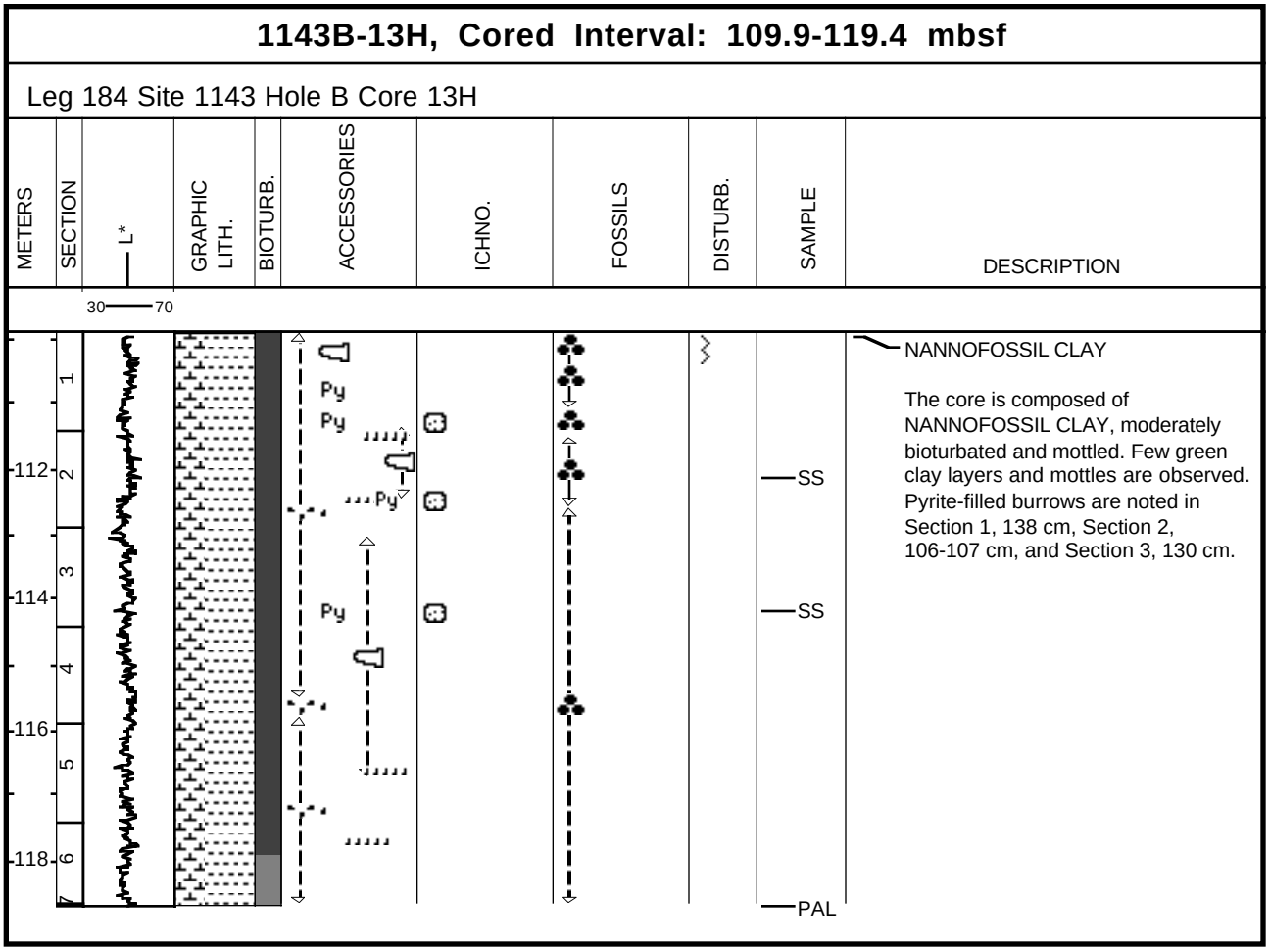
Core Photo


1143B-11H, Cored Interval: 90.9-100.4 mbsf
Leg 184 Site 1143 Hole B Core 11H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
92
94
96
98
100
1
2
3
4
5
6
7
8
Py
SS
SS
SS
PAL
NANNOFOSSIL CLAY
The sediment is composed of light greenish gray NANNOFOSSIL CLAY. There are abundant forminifers. The sediment contains burrows, patches, and mottles, and bioturbation is common. Green clay layers and pyrite are also common.

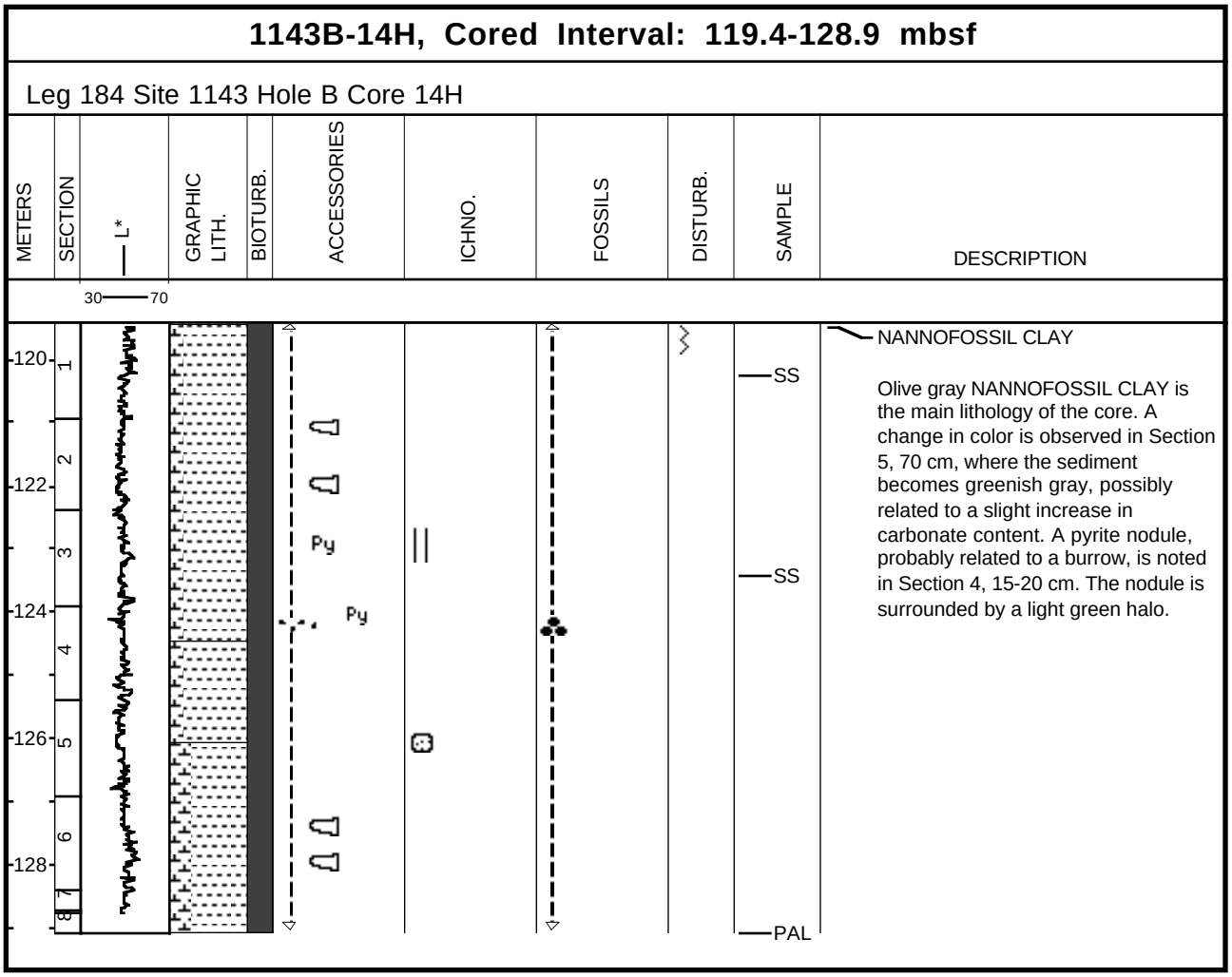
Core Photo


1143B-12H, Cored Interval: 100.4-109.9 mbsf
Leg 184 Site 1143 Hole B Core 12H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
102
104
106
108
110
1
2
3
4
5
6
7
Py
SS
SS
PAL
NANNOFOSSIL CLAY and CLAY WITH NANNOFOSSILS
The sediment is medium green gray NANNOFOSSIL CLAY from the top of the core to Section 6, 54 cm. Below this level the sediment is dark green gray CLAY WITH NANNOFOSSILS. This boundary also marks decreases in the foraminifer concentration, patches, mottling and bioturbation in the core. Pyrite is present as burrow fill.

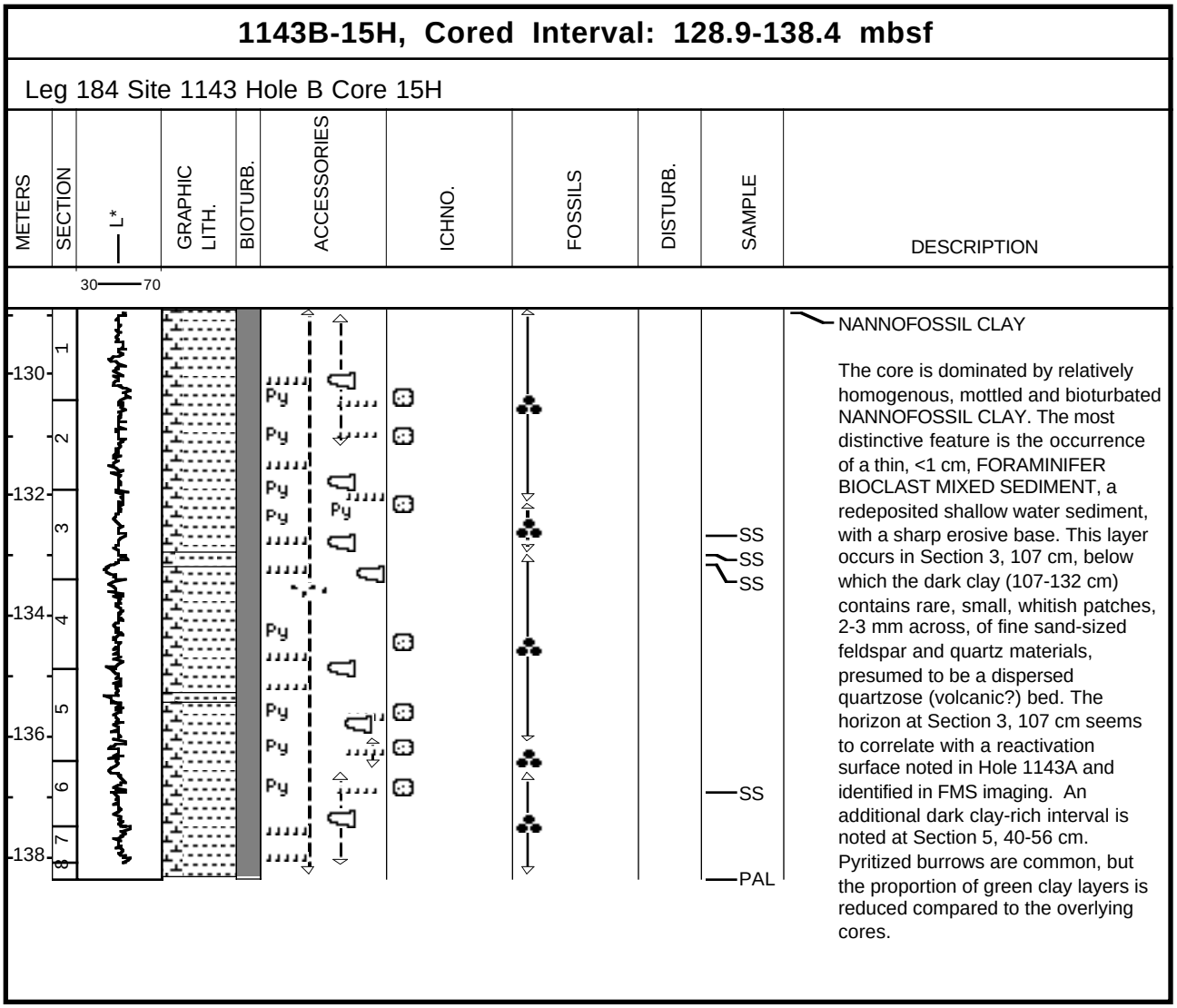
Core Photo


1143B-13H, Cored Interval: 109.9-119.4 mbsf
Leg 184 Site 1143 Hole B Core 13H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
112
114
116
118
1
2
3
4
5
6
Py
Py
Py
Py
SS
SS
PAL
NANNOFOSSIL CLAY
The core is composed of NANNOFOSSIL CLAY, moderately bioturbated and mottled. Few green clay layers and mottles are observed. Pyrite-filled burrows are noted in Section 1, 138 cm, Section 2, 106-107 cm, and Section 3, 130 cm.

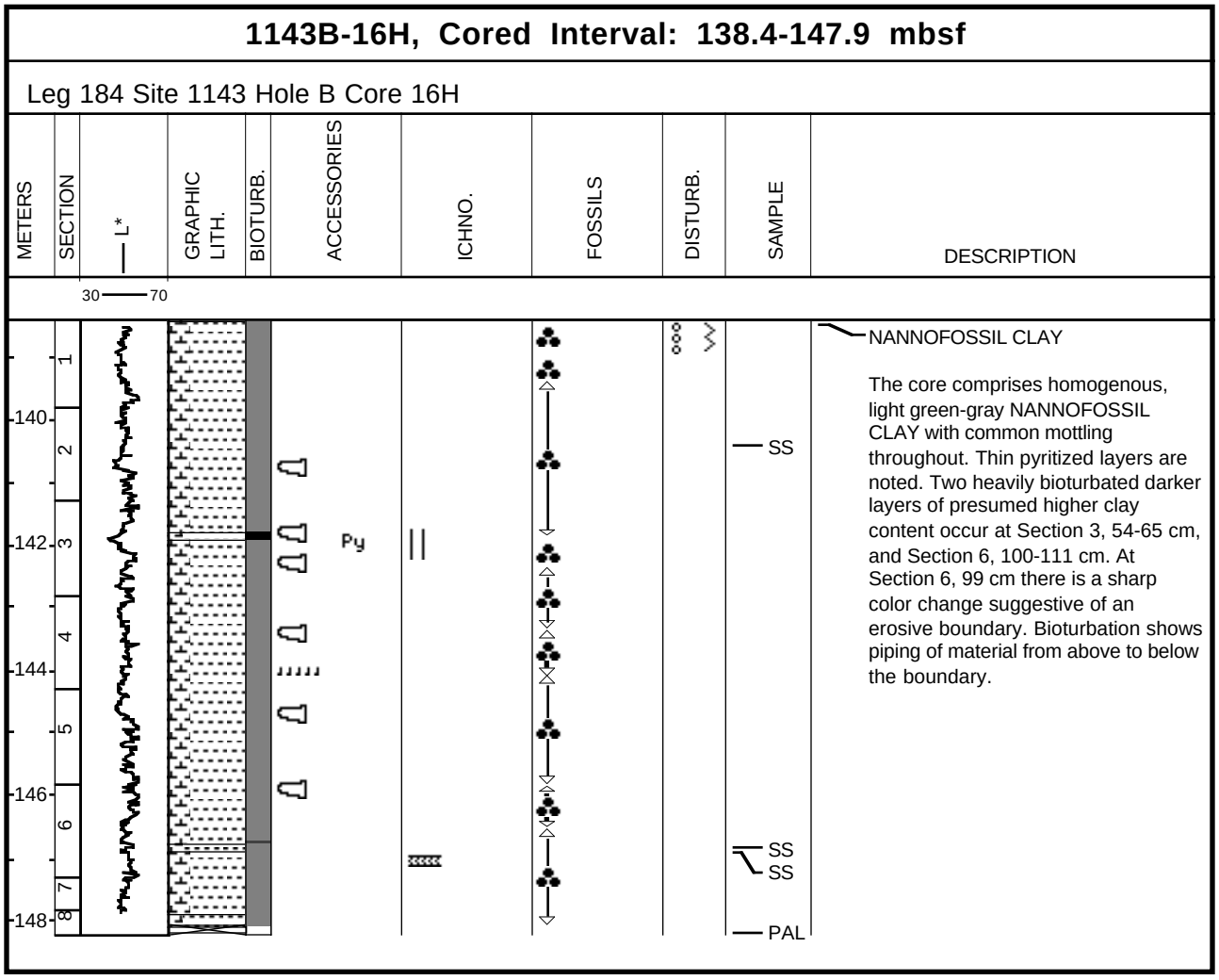
Core Photo


1143B-14H, Cored Interval: 119.4-128.9 mbsf
Leg 184 Site 1143 Hole B Core 14H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
120
122
124
126
128
1
2
3
4
5
6
7
Py
Py
SS
SS
PAL
NANNOFOSSIL CLAY
Olive gray NANNOFOSSIL CLAY is the main lithology of the core. A change in color is observed in Section 5, 70 cm, where the sediment becomes greenish gray, possibly related to a slight increase in carbonate content. A pyrite nodule, probably related to a burrow, is noted in Section 4, 15-20 cm. The nodule is surrounded by a light green halo.

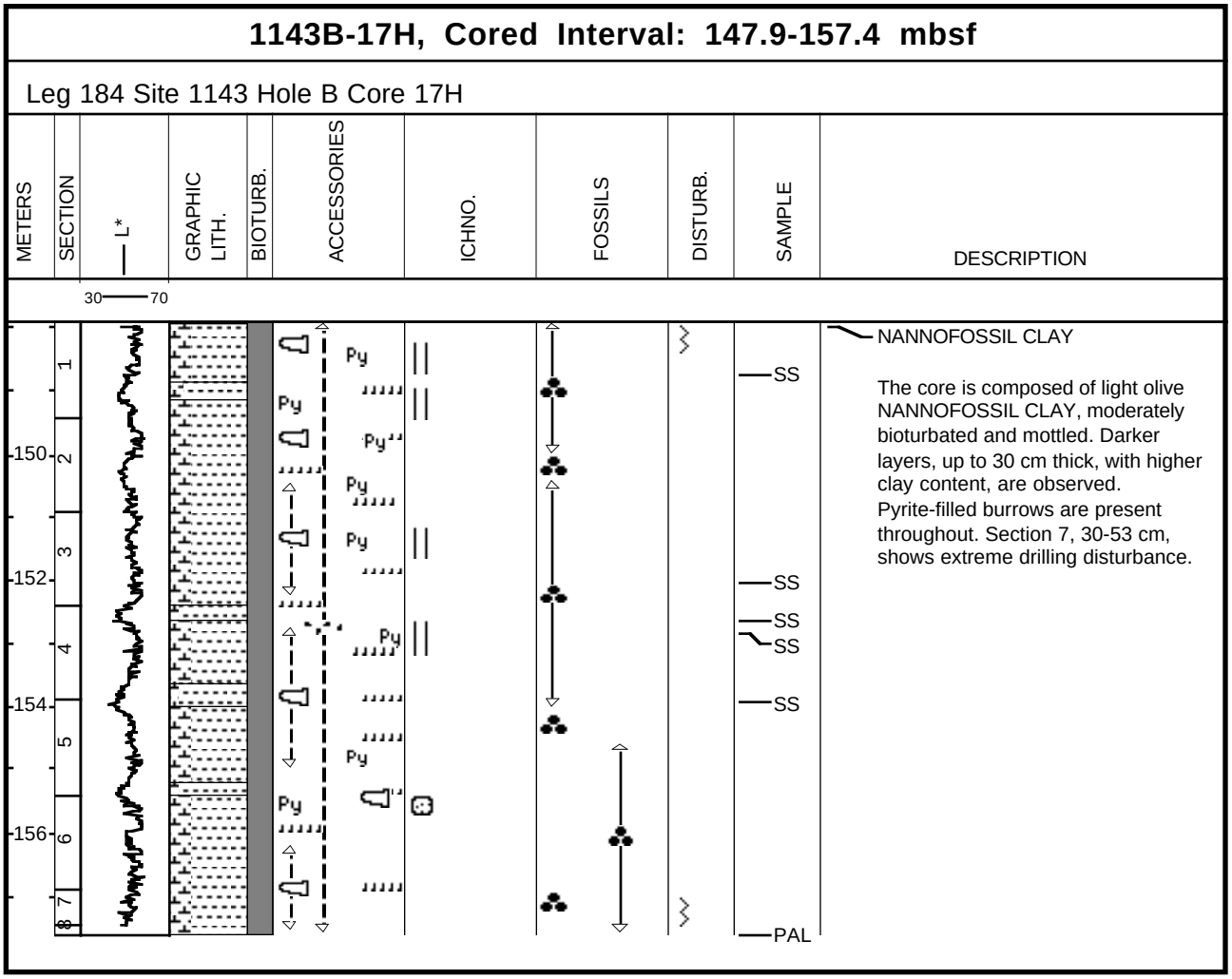
Core Photo


1143B-15H, Cored Interval: 128.9-138.4 mbsf
Leg 184 Site 1143 Hole B Core 15H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
130
132
134
136
138
1
2
3
4
5
6
7
Py
SS
SS
SS
SS
PAL
NANNOFOSSIL CLAY
The core is dominated by relatively homogenous, mottled and bioturbated NANNOFOSSIL CLAY. The most distinctive feature is the occurrence of a thin, <1 cm, FORAMINIFER BIOCLAST MIXED SEDIMENT, a redeposited shallow water sediment, with a sharp erosive base. This layer occurs in Section 3, 107 cm, below which the dark clay (107-132 cm) contains rare, small, whitish patches, 2-3 mm across, of fine sand-sized feldspar and quartz materials, presumed to be a dispersed quartzose (volcanic?) bed. The horizon at Section 3, 107 cm seems to correlate with a reactivation surface noted in Hole 1143A and identified in FMS imaging. An additional dark clay-rich interval is noted at Section 5, 40-56 cm. Pyritized burrows are common, but the proportion of green clay layers is reduced compared to the overlying cores.

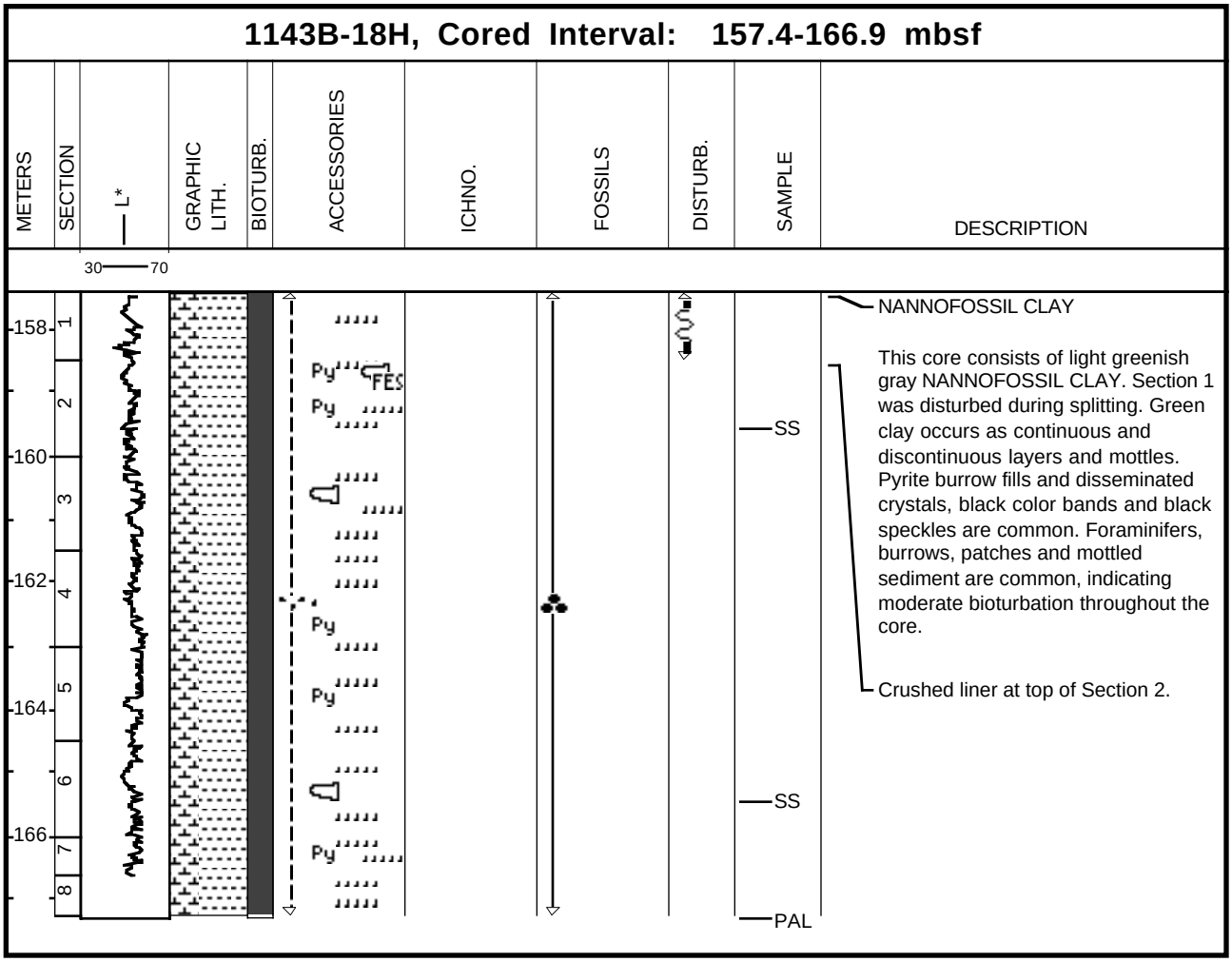
Core Photo


1143B-16H, Cored Interval: 138.4-147.9 mbsf
Leg 184 Site 1143 Hole B Core 16H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
140
142
144
146
148
1
2
3
4
5
6
7
8
Py
SS
SS
SS
PAL
NANNOFOSSIL CLAY
The core comprises homogenous, light green-gray NANNOFOSSIL CLAY with common mottling throughout. Thin pyritized layers are noted. Two heavily bioturbated darker layers of presumed higher clay content occur at Section 3, 54-65 cm, and Section 6, 100-111 cm. At Section 6, 99 cm there is a sharp color change suggestive of an erosive boundary. Bioturbation shows piping of material from above to below the boundary.

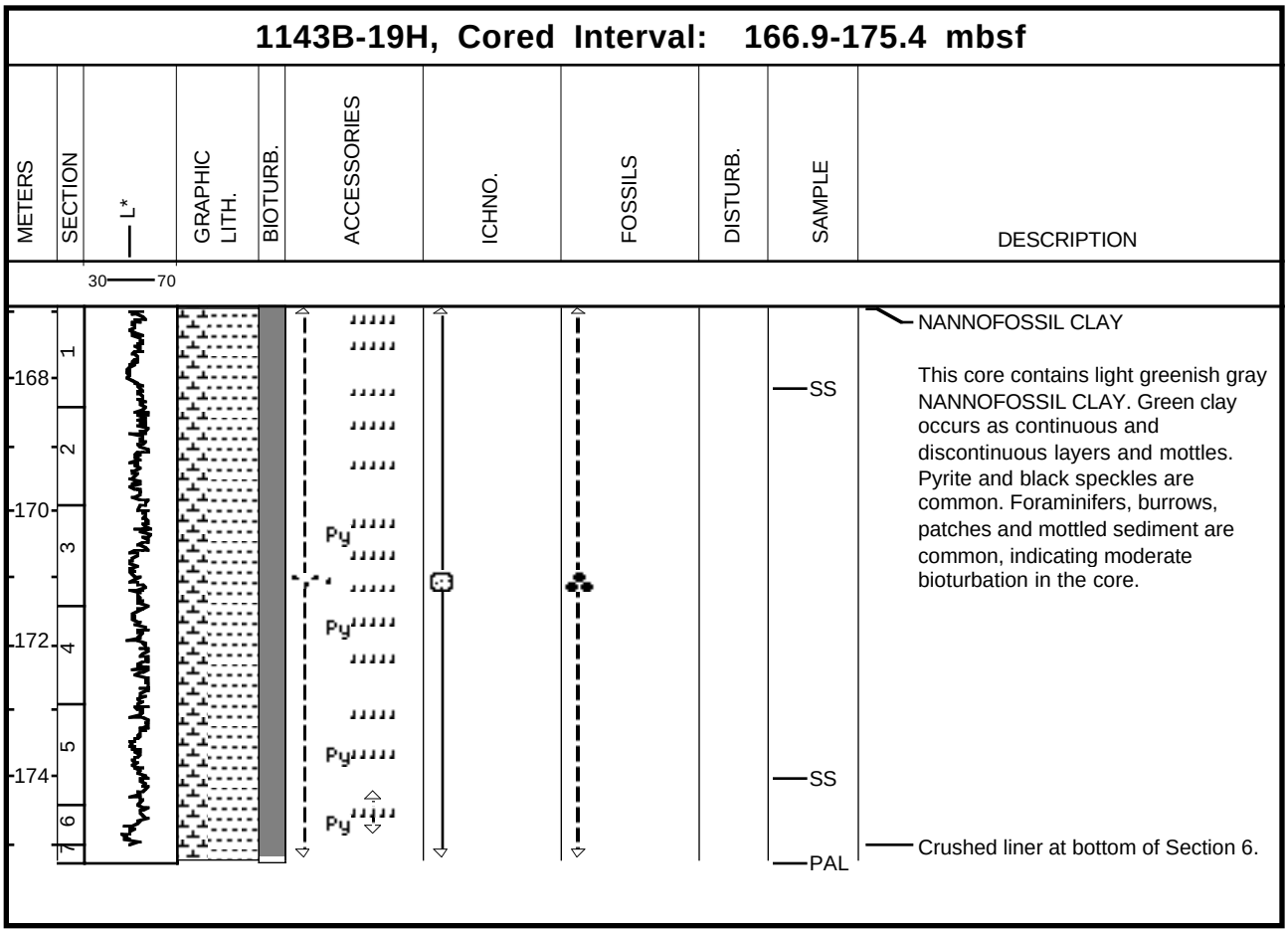
Core Photo


1143B-17H, Cored Interval: 147.9-157.4 mbsf
Leg 184 Site 1143 Hole B Core 17H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
150
152
154
156
1
2
3
4
5
6
7
Py
SS
PAL
NANNOFOSSIL CLAY
The core is composed of light olive NANNOFOSSIL CLAY, moderately bioturbated and mottled. Darker layers, up to 30 cm thick, with higher clay content, are observed. Pyrite-filled burrows are present throughout. Section 7, 30-53 cm, shows extreme drilling disturbance.

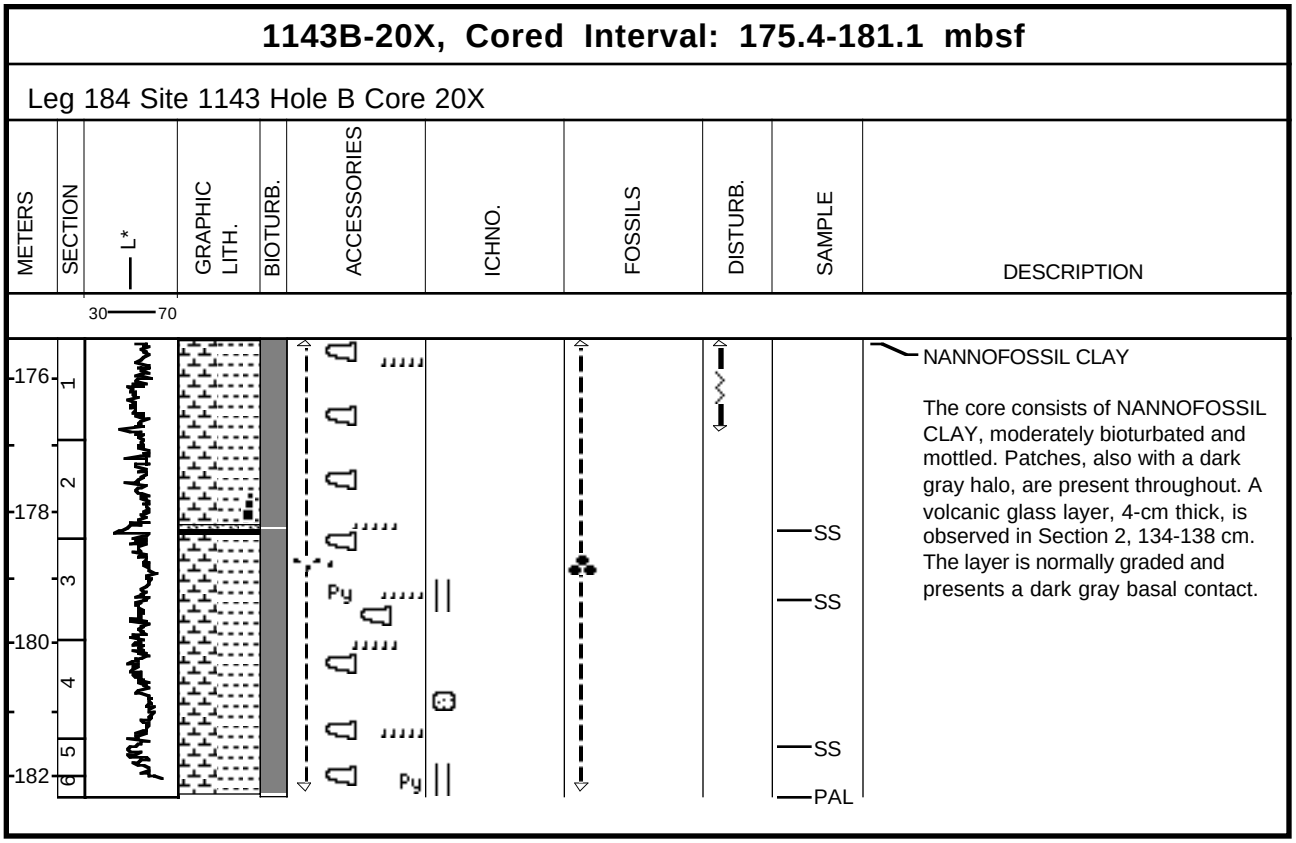
Core Photo


1143B-18H, Cored Interval: 157.4-166.9 mbsf
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
158
160
162
164
166
1
2
3
4
5
6
7
8
Py
FES
SS
SS
PAL
NANNOFOSSIL CLAY
This core consists of light greenish gray NANNOFOSSIL CLAY. Section 1 was disturbed during splitting. Green clay occurs as continuous and discontinuous layers and mottles. Pyrite burrow fills and disseminated crystals, black color bands and black speckles are common. Foraminifers, burrows, patches and mottled sediment are common, indicating moderate bioturbation throughout the core.
Crushed liner at top of Section 2.

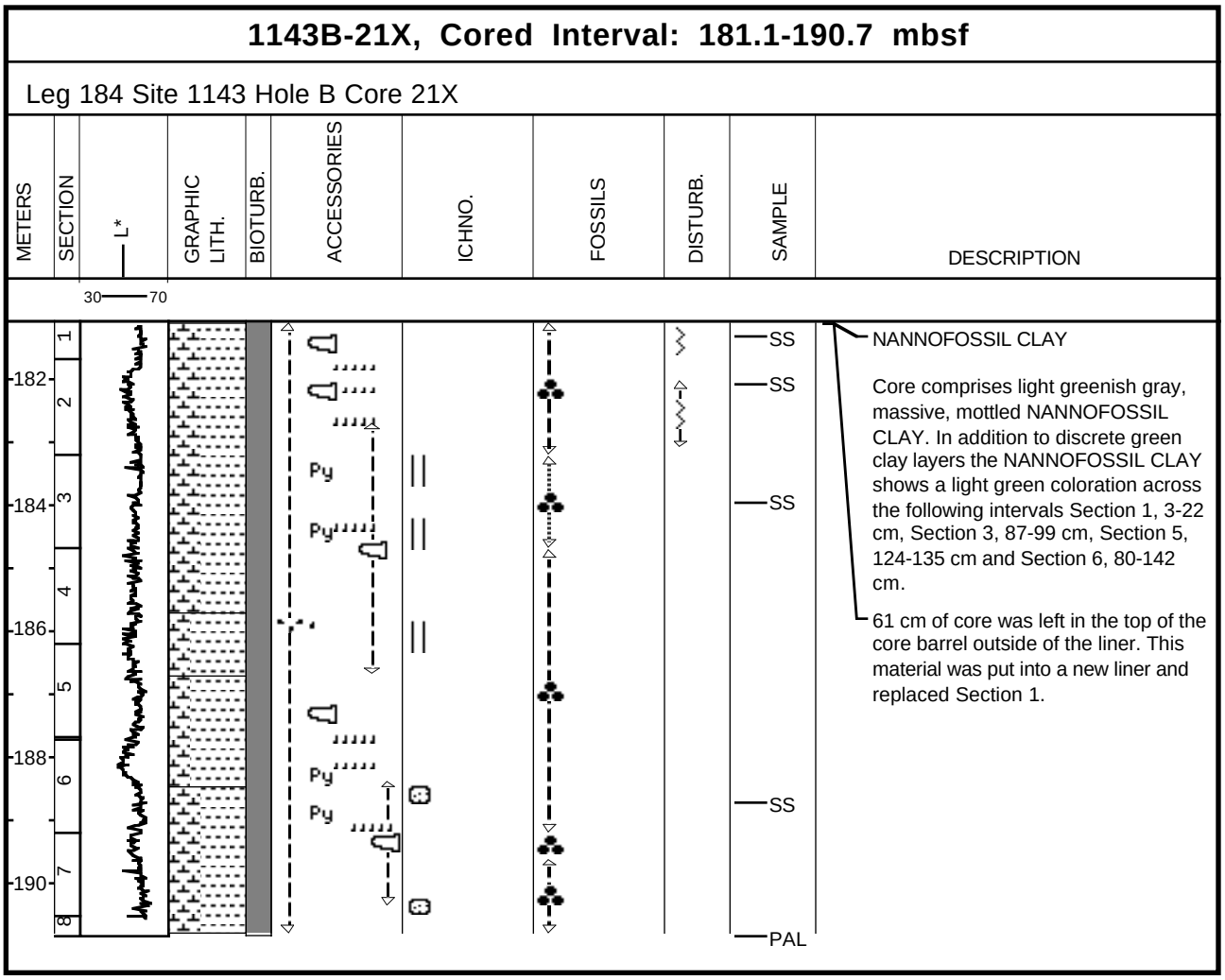
Core Photo


1143B-19H, Cored Interval: 166.9-175.4 mbsf
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
168
170
172
174
1
2
3
4
5
6
7
Py
SS
SS
PAL
NANNOFOSSIL CLAY
This core contains light greenish gray NANNOFOSSIL CLAY. Green clay occurs as continuous and discontinuous layers and mottles. Pyrite and black speckles are common. Foraminifers, burrows, patches and mottled sediment are common, indicating moderate bioturbation in the core.
Crushed liner at bottom of Section 6.

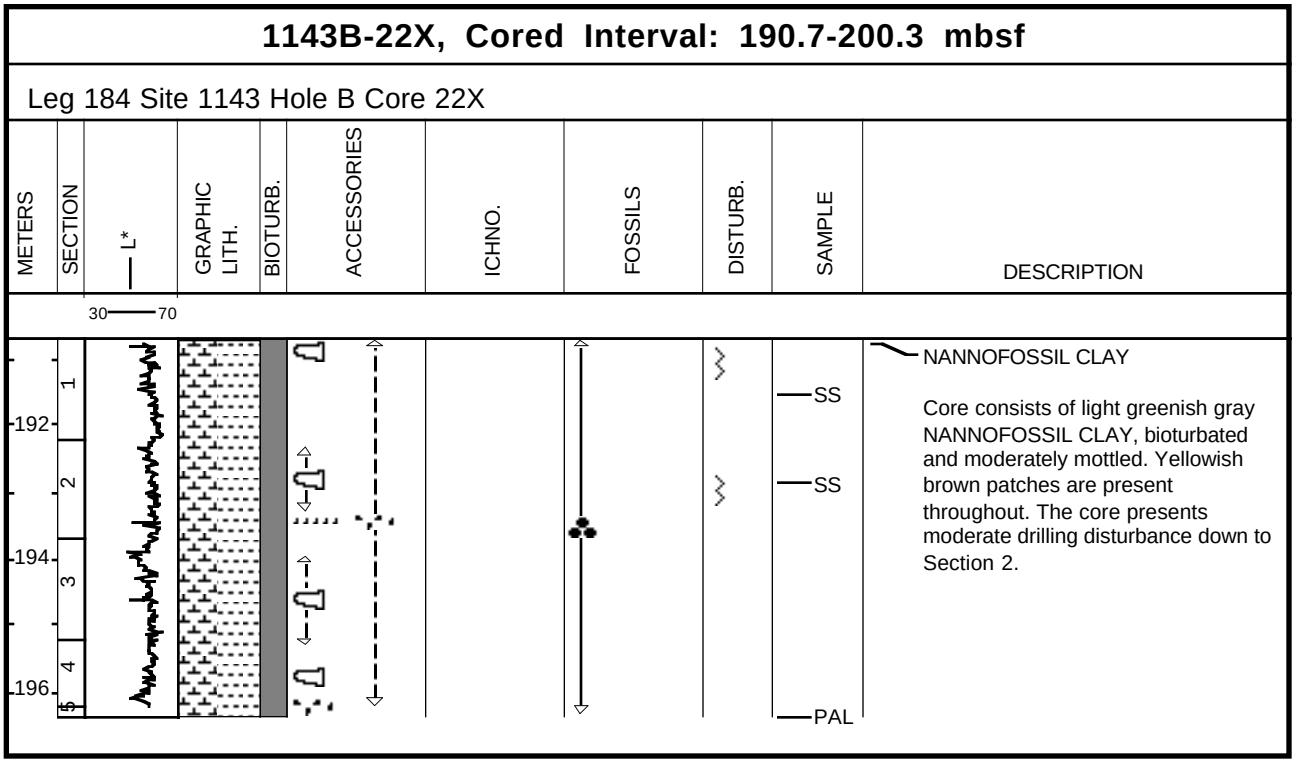
Core Photo


1143B-20X, Cored Interval: 175.4-181.1 mbsf
Leg 184 Site 1143 Hole B Core 20X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
176
178
180
182
1
2
3
4
5
6
Py
Py
SS
SS
SS
PAL
NANNOFOSSIL CLAY
The core consists of NANNOFOSSIL CLAY, moderately bioturbated and mottled. Patches, also with a dark gray halo, are present throughout. A volcanic glass layer, 4-cm thick, is observed in Section 2, 134-138 cm. The layer is normally graded and presents a dark gray basal contact.

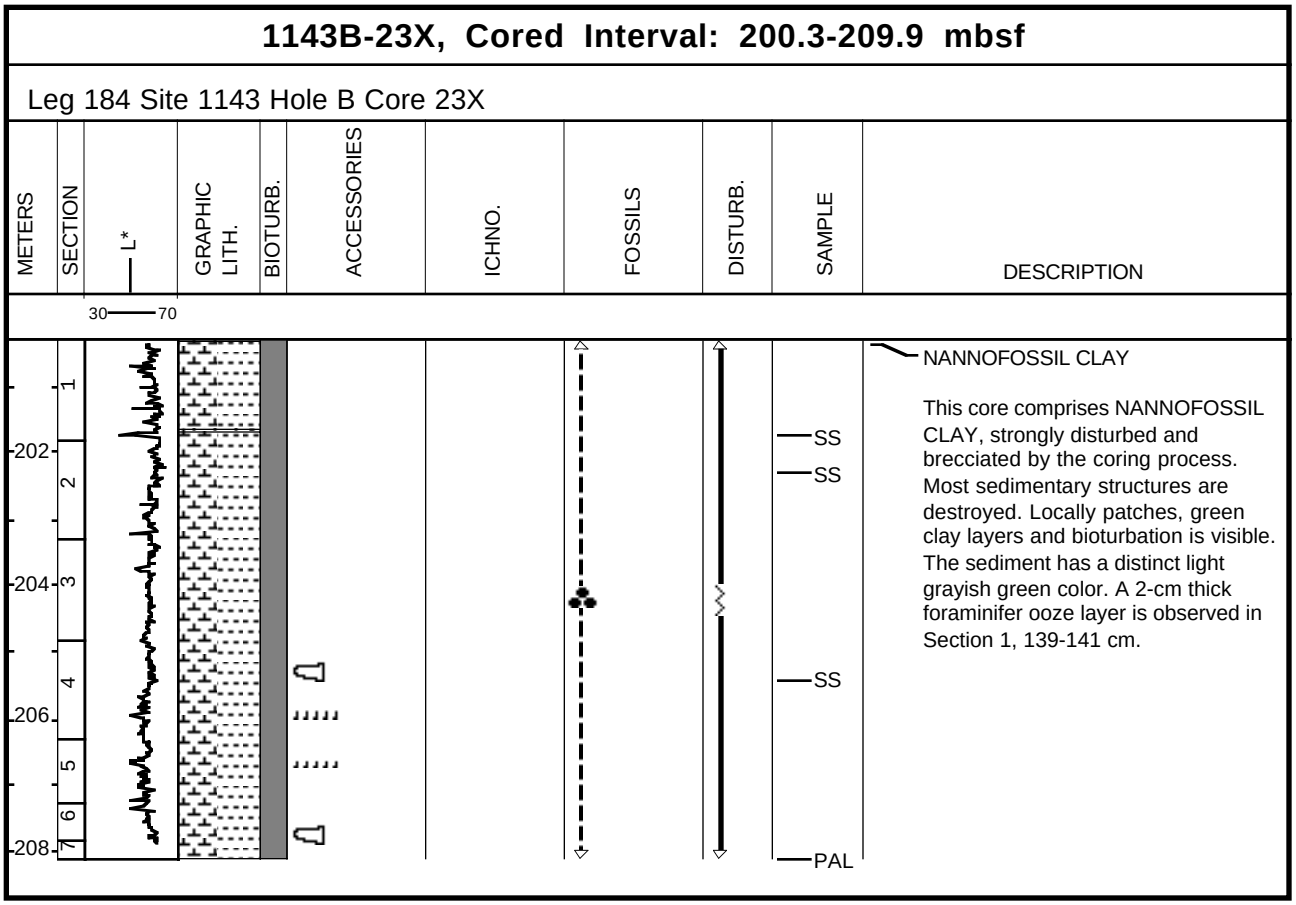
Core Photo


1143B-21X, Cored Interval: 181.1-190.7 mbsf
Leg 184 Site 1143 Hole B Core 21X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
182
184
186
188
190
1
2
3
4
5
6
7
8
Py
Py
Py
SS
SS
SS
SS
PAL
NANNOFOSSIL CLAY
Core comprises light greenish gray, massive, mottled NANNOFOSSIL CLAY. In addition to discrete green clay layers the NANNOFOSSIL CLAY shows a light green coloration across the following intervals Section 1, 3-22 cm, Section 3, 87-99 cm, Section 5, 124-135 cm and Section 6, 80-142 cm.
61 cm of core was left in the top of the core barrel outside of the liner. This material was put into a new liner and replaced Section 1.

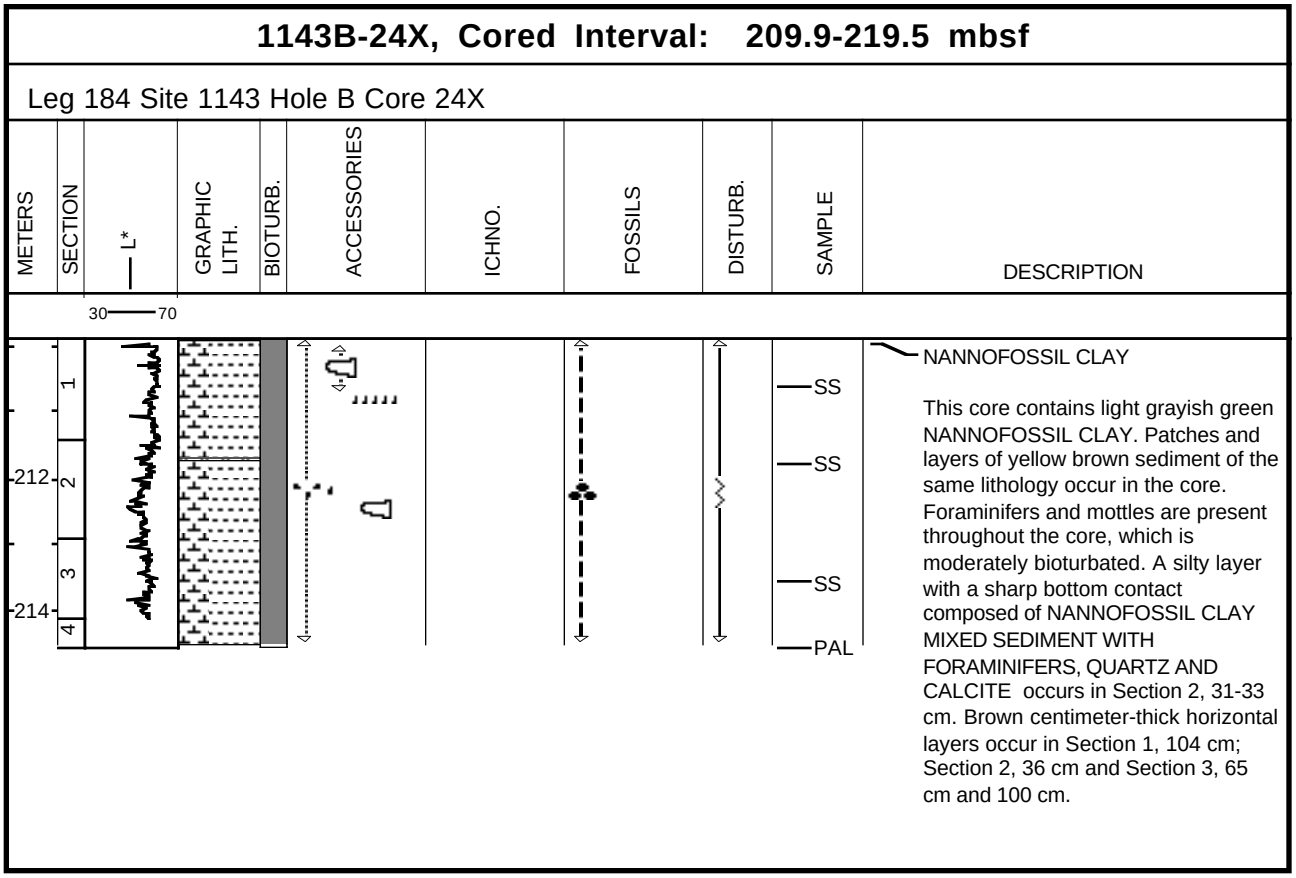
Core Photo


1143B-22X, Cored Interval: 190.7-200.3 mbsf
Leg 184 Site 1143 Hole B Core 22X
METERS
SECTION
L*
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
30
70
192
194
196
1
2
3
4
5
SS
SS
PAL
NANNOFOSSIL CLAY
Core consists of light greenish gray NANNOFOSSIL CLAY, bioturbated and moderately mottled. Yellowish brown patches are present throughout. The core presents moderate drilling disturbance down to Section 2.

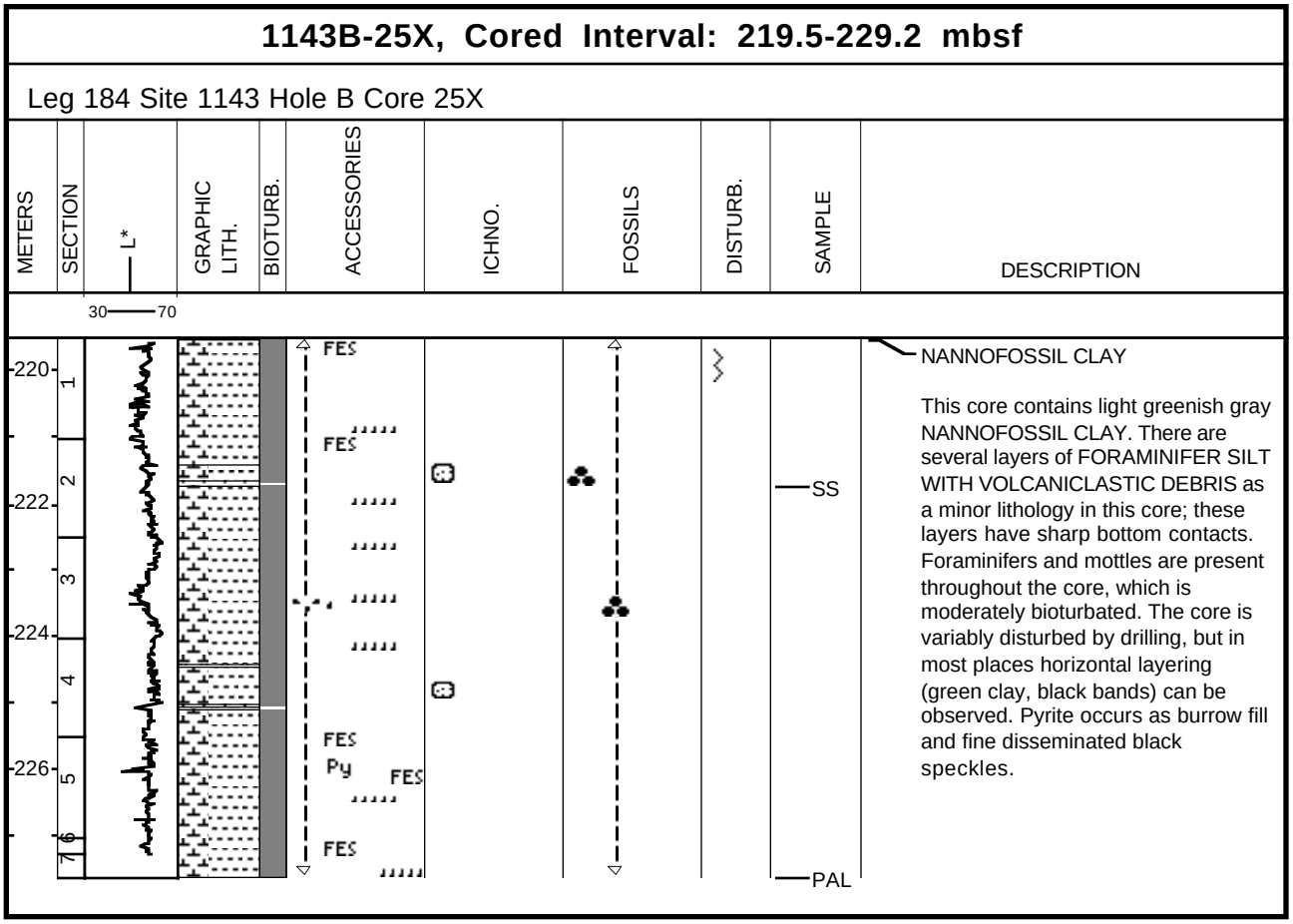
Core Photo


1143B-23X, Cored Interval: 200.3-209.9 mbsf
Leg 184 Site 1143 Hole B Core 23X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
202
204
206
208
1
2
3
4
5
6
7
SS
SS
SS
PAL
NANNOFOSSIL CLAY
This core comprises NANNOFOSSIL CLAY, strongly disturbed and brecciated by the coring process. Most sedimentary structures are destroyed. Locally patches, green clay layers and bioturbation is visible. The sediment has a distinct light grayish green color. A 2-cm thick foraminifer ooze layer is observed in Section 1, 139-141 cm.

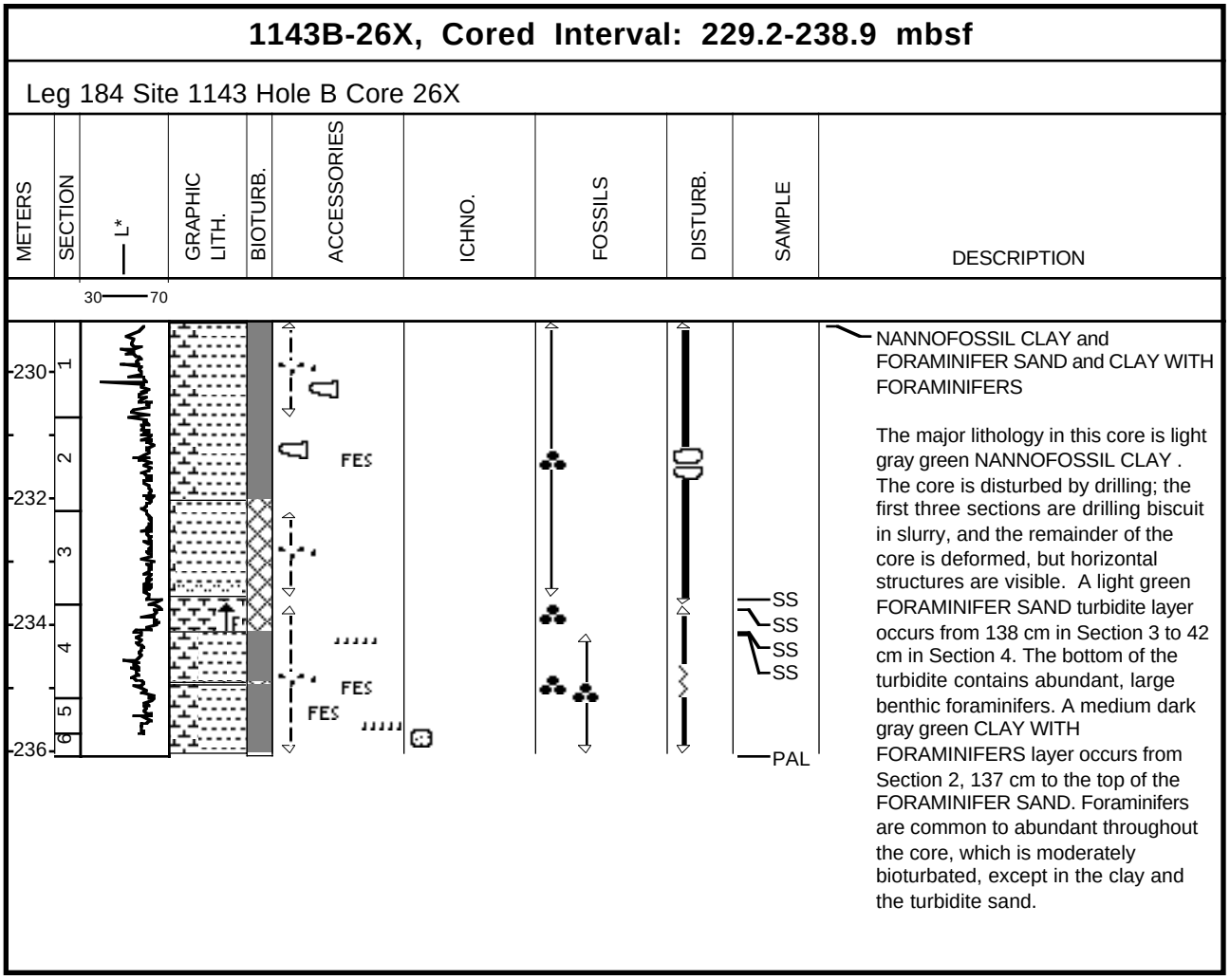
Core Photo


1143B-24X, Cored Interval: 209.9-219.5 mbsf
Leg 184 Site 1143 Hole B Core 24X
METERS
SECTION
L*
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
30
70
212
214
1
2
3
4
SS
SS
SS
PAL
NANNOFOSSIL CLAY
This core contains light grayish green NANNOFOSSIL CLAY. Patches and layers of yellow brown sediment of the same lithology occur in the core. Foraminifers and mottles are present throughout the core, which is moderately bioturbated. A silty layer with a sharp bottom contact composed of NANNOFOSSIL CLAY MIXED SEDIMENT WITH FORAMINIFERS, QUARTZ AND CALCITE occurs in Section 2, 31-33 cm. Brown centimeter-thick horizontal layers occur in Section 1, 104 cm; Section 2, 36 cm and Section 3, 65 cm and 100 cm.

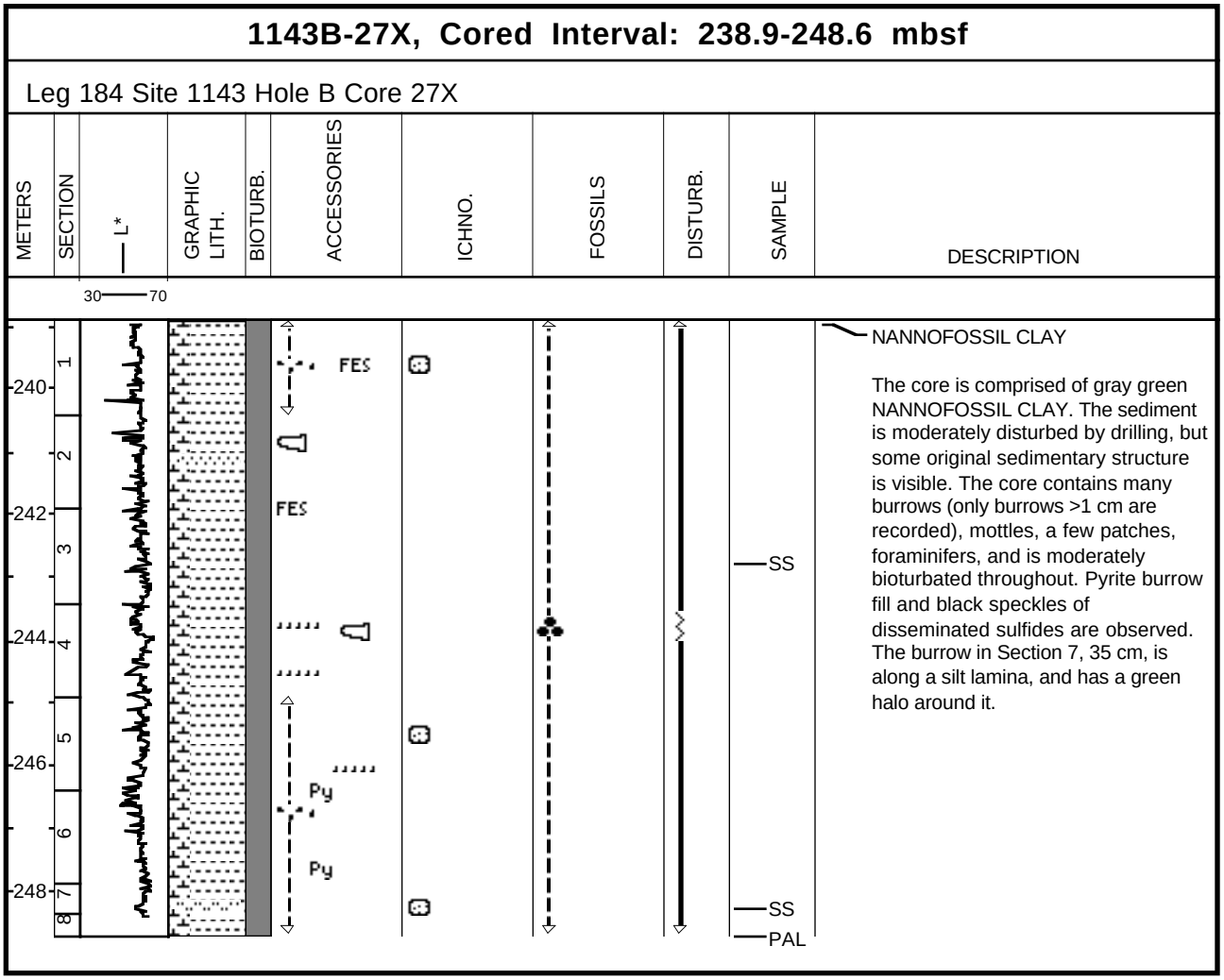
Core Photo


1143B-25X, Cored Interval: 219.5-229.2 mbsf
Leg 184 Site 1143 Hole B Core 25X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
220
222
224
226
1
2
3
4
5
6
7
FES
FES
FES
Py
FES
FES
SS
PAL
NANNOFOSSIL CLAY
This core contains light greenish gray NANNOFOSSIL CLAY. There are several layers of FORAMINIFER SILT WITH VOLCANICLASTIC DEBRIS as a minor lithology in this core; these layers have sharp bottom contacts. Foraminifers and mottles are present throughout the core, which is moderately bioturbated. The core is variably disturbed by drilling, but in most places horizontal layering (green clay, black bands) can be observed. Pyrite occurs as burrow fill and fine disseminated black speckles.

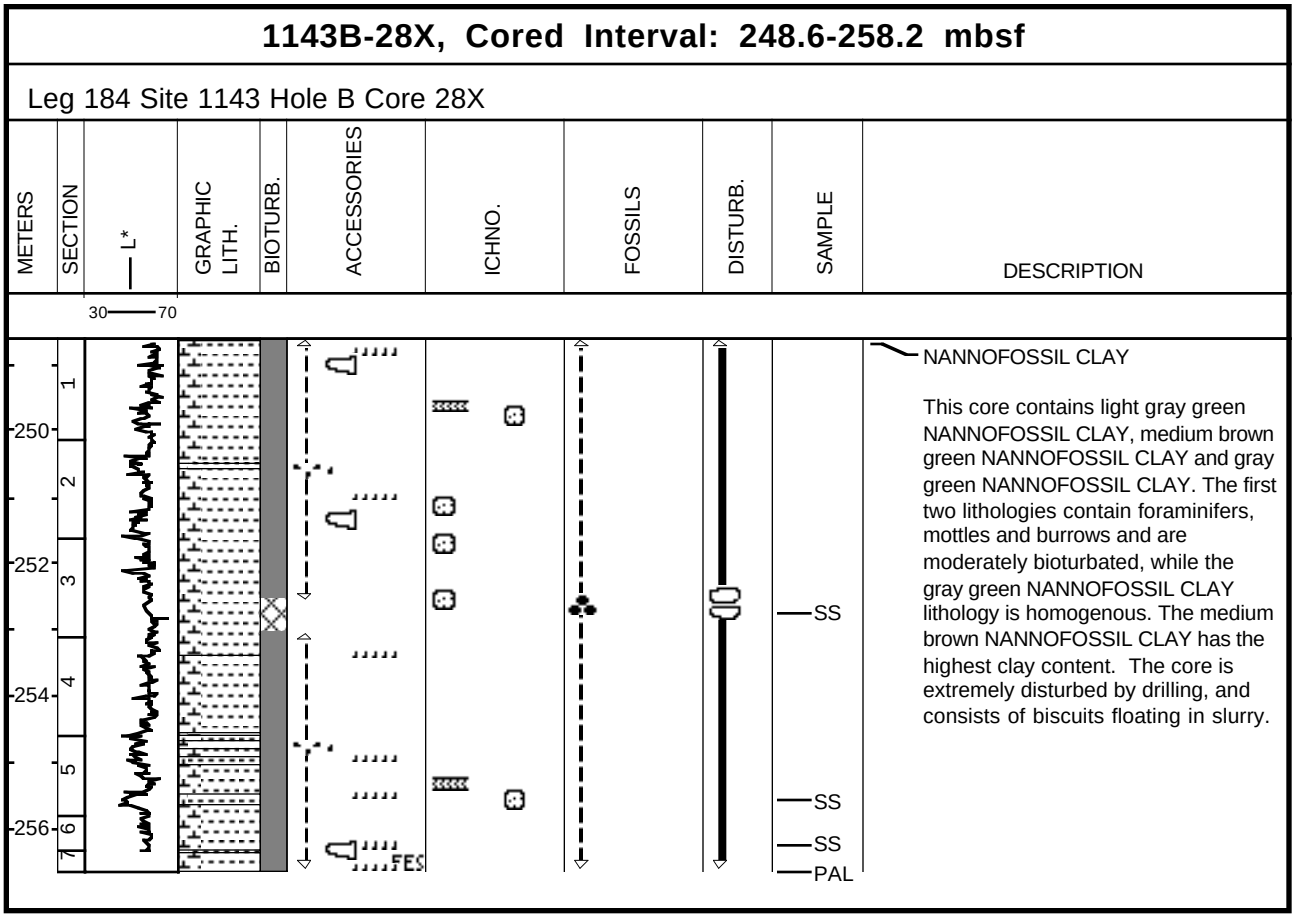
Core Photo


1143B-26X, Cored Interval: 229.2-238.9 mbsf
Leg 184 Site 1143 Hole B Core 26X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
230
232
234
236
1
2
3
4
5
6
FES
FES
FES
SS
SS
SS
SS
PAL
NANNOFOSSIL CLAY and FORAMINIFER SAND and CLAY WITH FORAMINIFERS
The major lithology in this core is light gray green NANNOFOSSIL CLAY . The core is disturbed by drilling; the first three sections are drilling biscuit in slurry, and the remainder of the core is deformed, but horizontal structures are visible. A light green FORAMINIFER SAND turbidite layer occurs from 138 cm in Section 3 to 42 cm in Section 4. The bottom of the turbidite contains abundant, large benthic foraminifers. A medium dark gray green CLAY WITH FORAMINIFERS layer occurs from Section 2, 137 cm to the top of the FORAMINIFER SAND. Foraminifers are common to abundant throughout the core, which is moderately bioturbated, except in the clay and the turbidite sand.

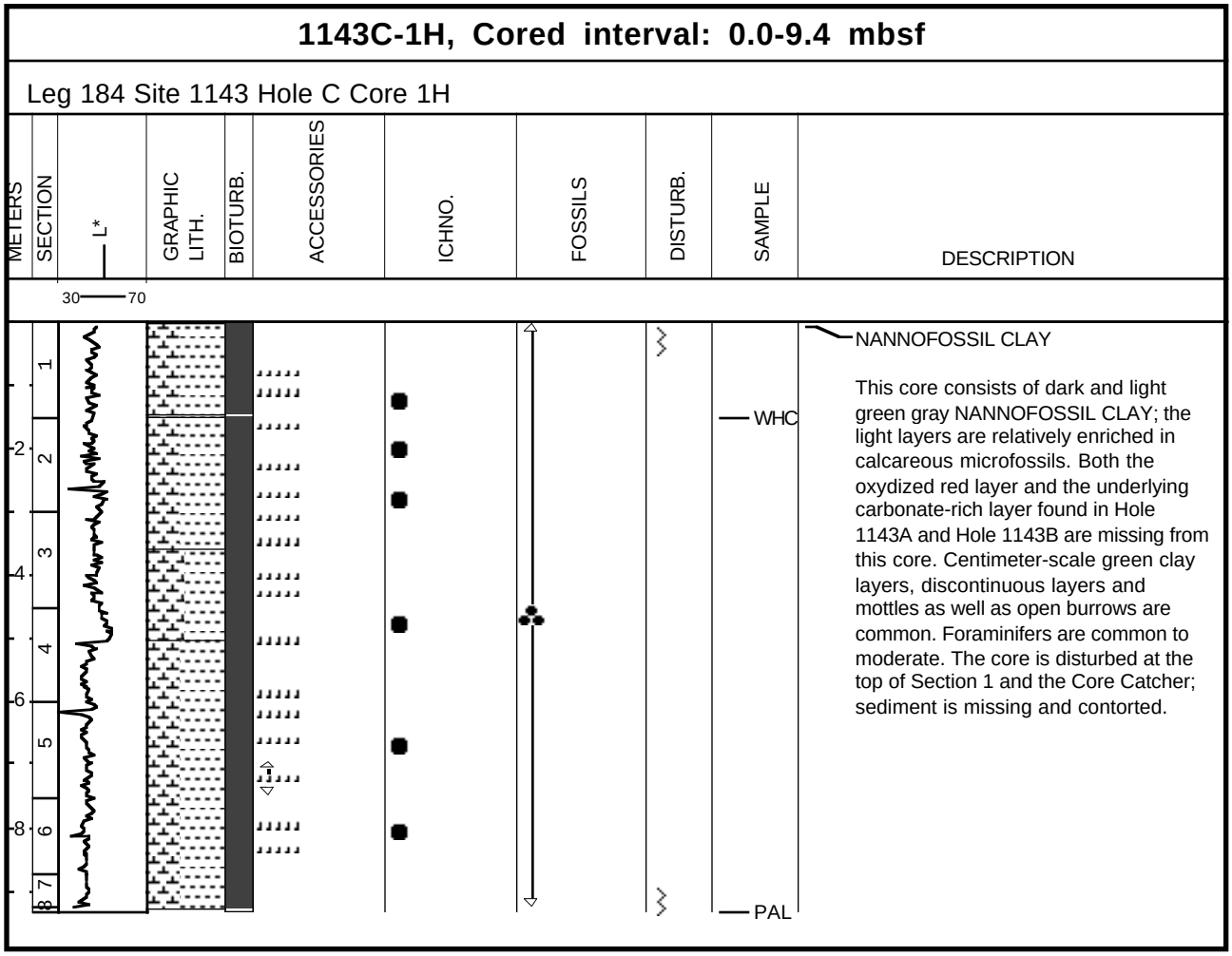
Core Photo


1143B-27X, Cored Interval: 238.9-248.6 mbsf
Leg 184 Site 1143 Hole B Core 27X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
240
242
244
246
248
1
2
3
4
5
6
7
8
FES
FES
Py
Py
SS
SS
PAL
NANNOFOSSIL CLAY
The core is comprised of gray green NANNOFOSSIL CLAY. The sediment is moderately disturbed by drilling, but some original sedimentary structure is visible. The core contains many burrows (only burrows >1 cm are recorded), mottles, a few patches, foraminifers, and is moderately bioturbated throughout. Pyrite burrow fill and black speckles of disseminated sulfides are observed. The burrow in Section 7, 35 cm, is along a silt lamina, and has a green halo around it.

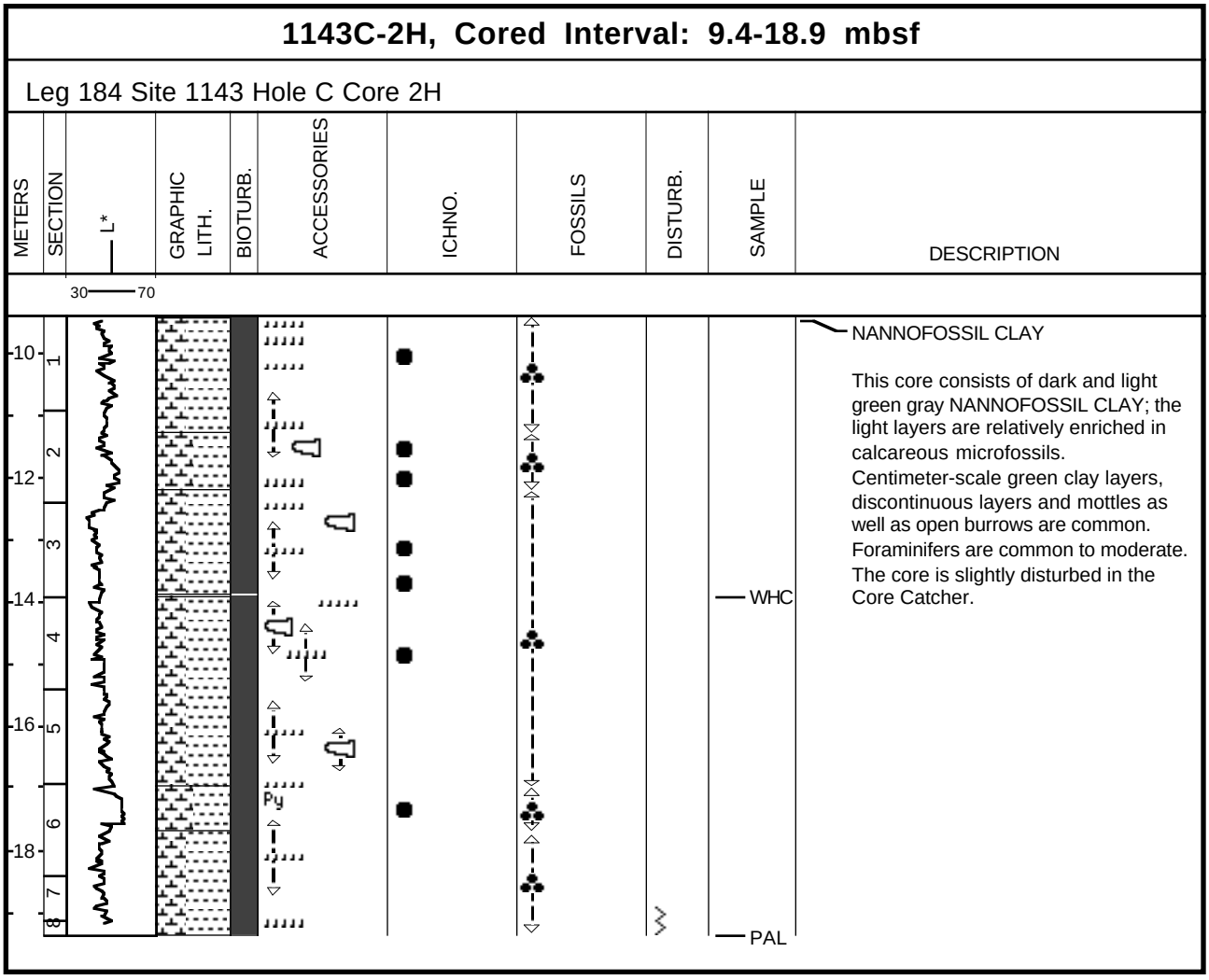
Core Photo


1143B-28X, Cored Interval: 248.6-258.2 mbsf
Leg 184 Site 1143 Hole B Core 28X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
250
252
254
256
1
2
3
4
5
6
7
FES
SS
SS
SS
PAL
NANNOFOSSIL CLAY
This core contains light gray green NANNOFOSSIL CLAY, medium brown green NANNOFOSSIL CLAY and gray green NANNOFOSSIL CLAY. The first two lithologies contain foraminifers, mottles and burrows and are moderately bioturbated, while the gray green NANNOFOSSIL CLAY lithology is homogenous. The medium brown NANNOFOSSIL CLAY has the highest clay content. The core is extremely disturbed by drilling, and consists of biscuits floating in slurry.

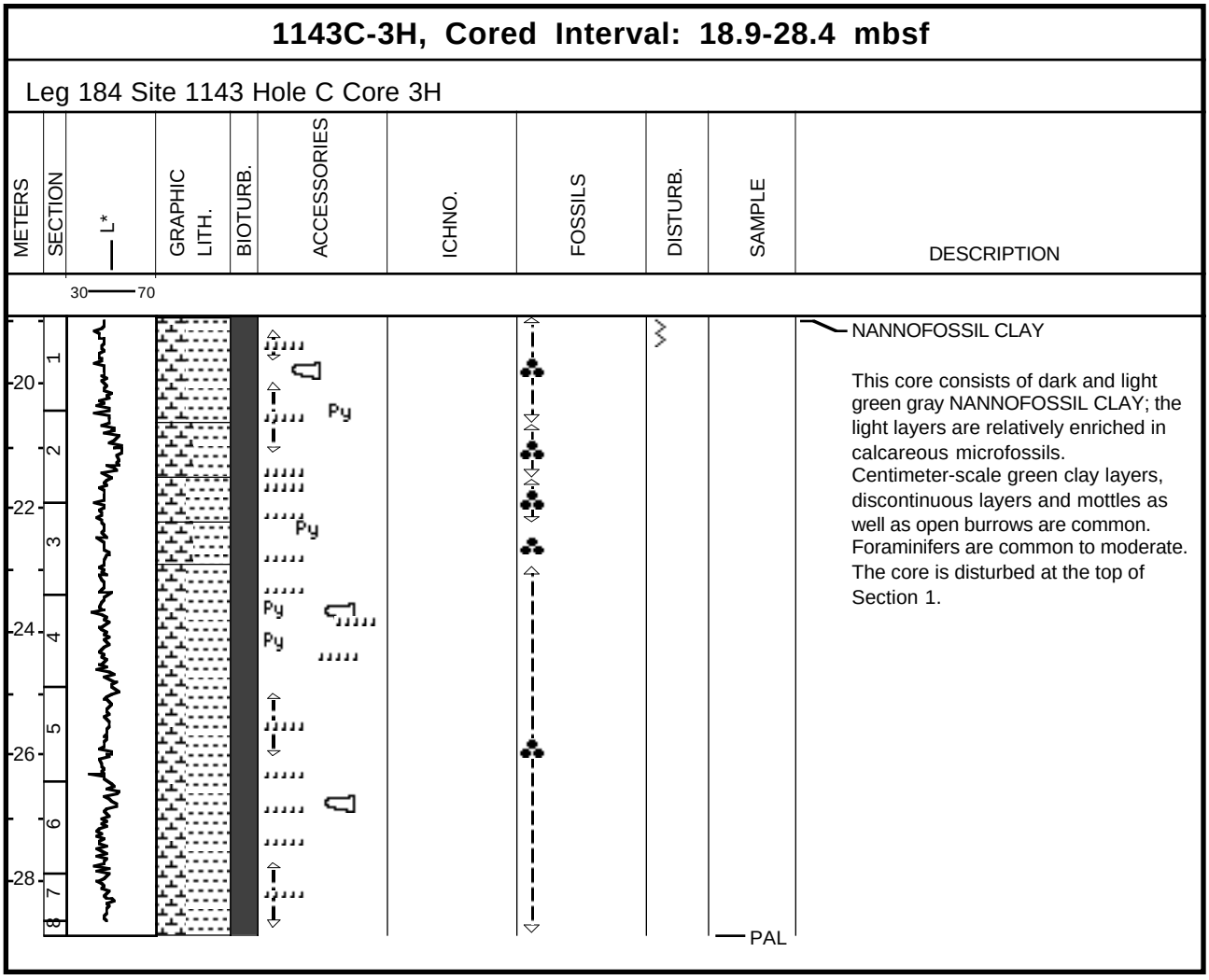
Core Photo


1143C-1H, Cored interval: 0.0-9.4 mbsf
Leg 184 Site 1143 Hole C Core 1H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
1
2
3
4
5
6
7
-2
-4
-6
-8
WHC
PAL
NANNOFOSSIL CLAY
This core consists of dark and light green gray NANNOFOSSIL CLAY; the light layers are relatively enriched in calcareous microfossils. Both the oxydized red layer and the underlying carbonate-rich layer found in Hole 1143A and Hole 1143B are missing from this core. Centimeter-scale green clay layers, discontinuous layers and mottles as well as open burrows are common. Foraminifers are common to moderate. The core is disturbed at the top of Section 1 and the Core Catcher; sediment is missing and contorted.

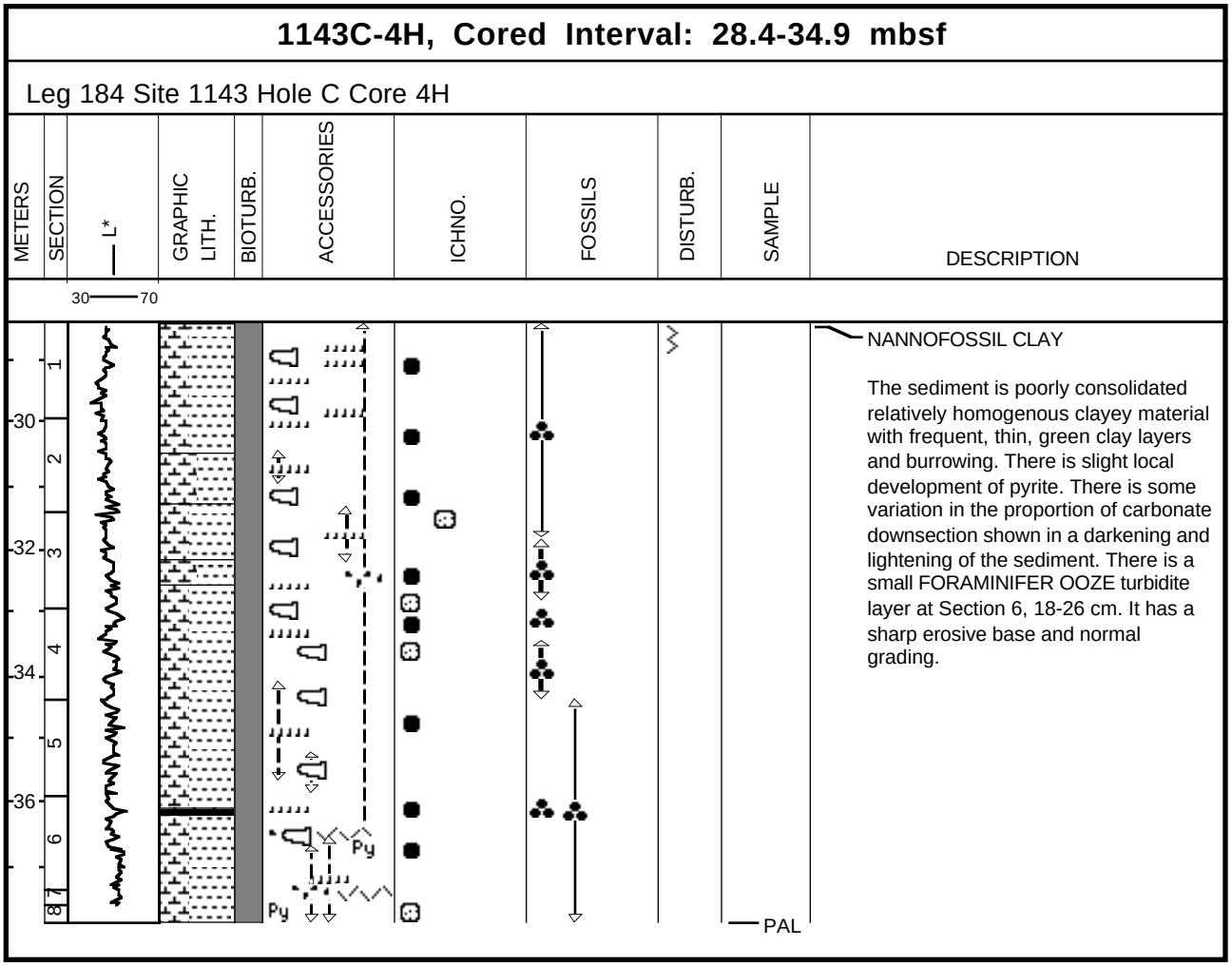
Core Photo


1143C-2H, Cored Interval: 9.4-18.9 mbsf
Leg 184 Site 1143 Hole C Core 2H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
10
12
14
16
18
1
2
3
4
5
6
7
Py
WHC
PAL
NANNOFOSSIL CLAY
This core consists of dark and light green gray NANNOFOSSIL CLAY; the light layers are relatively enriched in calcareous microfossils. Centimeter-scale green clay layers, discontinuous layers and mottles as well as open burrows are common. Foraminifers are common to moderate. The core is slightly disturbed in the Core Catcher.

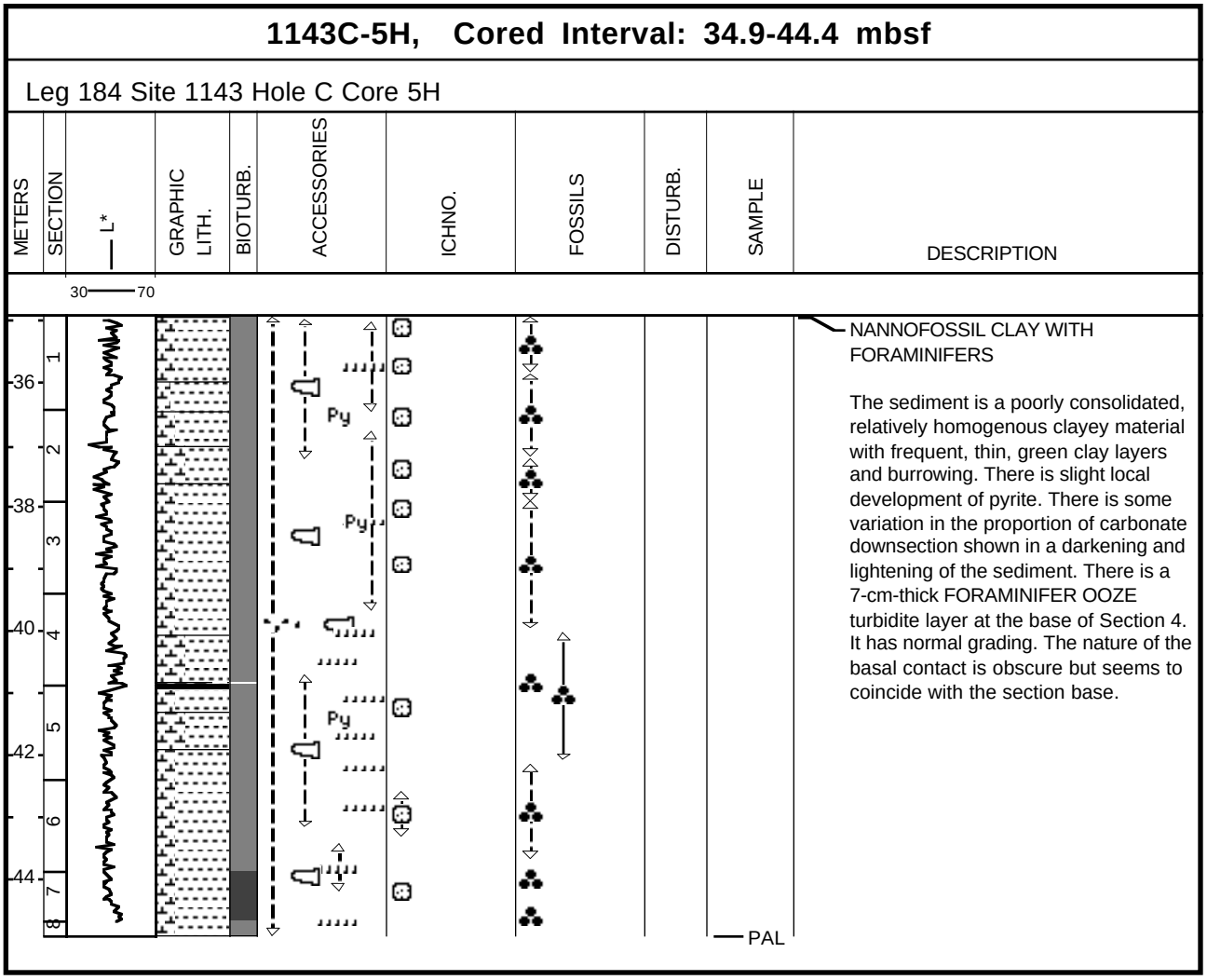
Core Photo


1143C-3H, Cored Interval: 18.9-28.4 mbsf
Leg 184 Site 1143 Hole C Core 3H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
20
22
24
26
28
1
2
3
4
5
6
7
Py
PAL
NANNOFOSSIL CLAY
This core consists of dark and light green gray NANNOFOSSIL CLAY; the light layers are relatively enriched in calcareous microfossils. Centimeter-scale green clay layers, discontinuous layers and mottles as well as open burrows are common. Foraminifers are common to moderate. The core is disturbed at the top of Section 1.

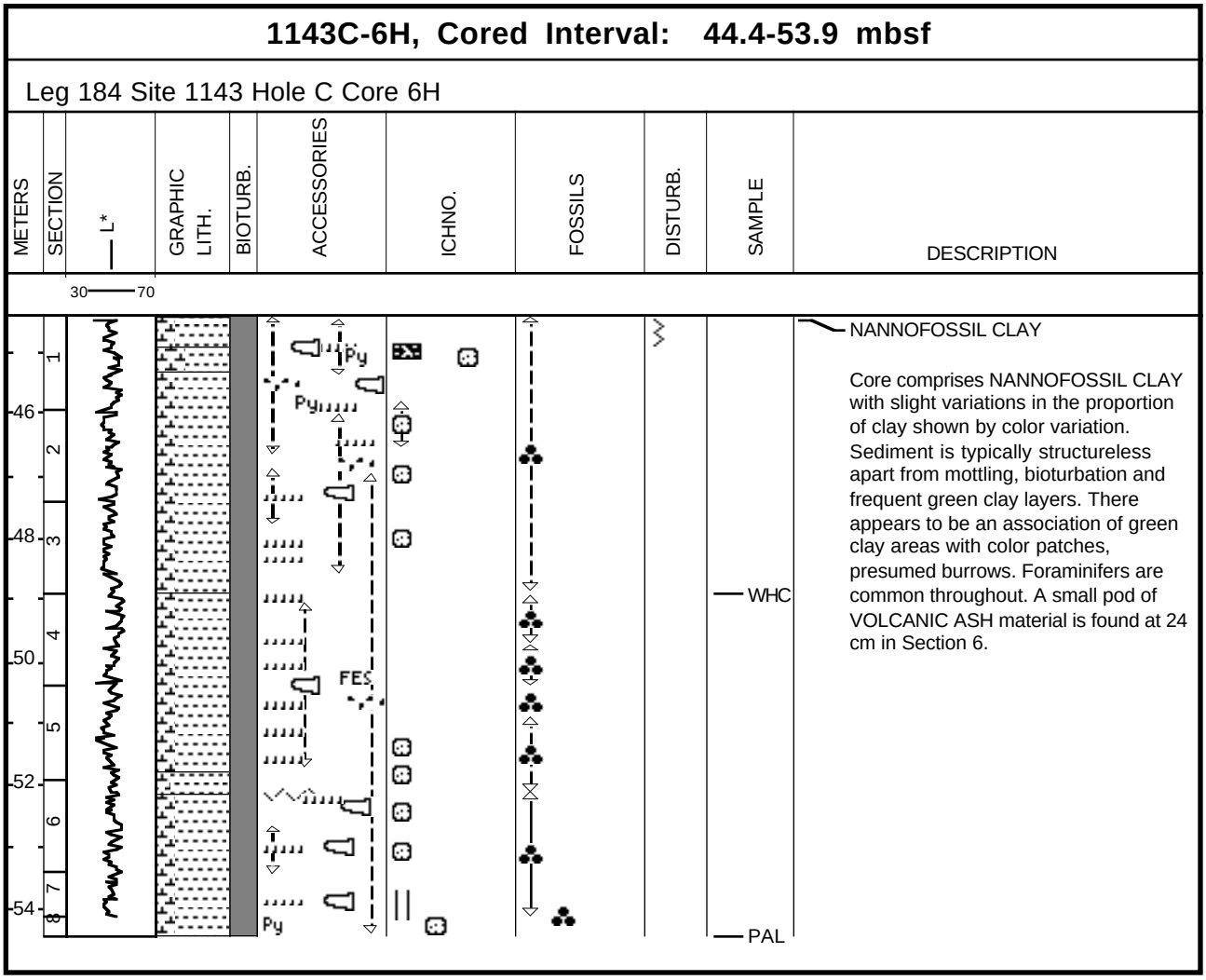
Core Photo


1143C-4H, Cored Interval: 28.4-34.9 mbsf
Leg 184 Site 1143 Hole C Core 4H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
30
32
34
36
1
2
3
4
5
6
7
Py
Py
PAL
NANNOFOSSIL CLAY
The sediment is poorly consolidated relatively homogenous clayey material with frequent, thin, green clay layers and burrowing. There is slight local development of pyrite. There is some variation in the proportion of carbonate downsection shown in a darkening and lightening of the sediment. There is a small FORAMINIFER OOZE turbidite layer at Section 6, 18-26 cm. It has a sharp erosive base and normal grading.

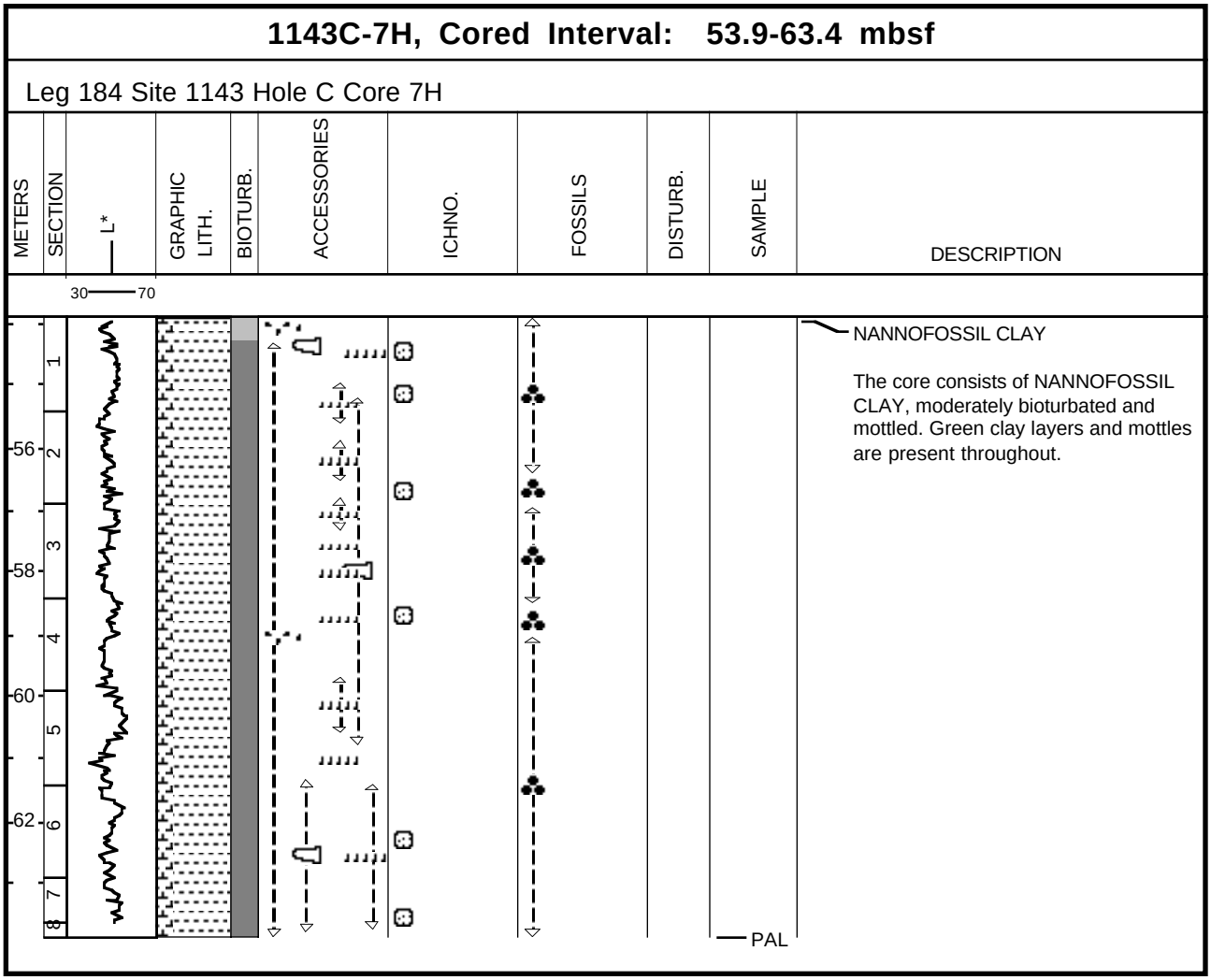
Core Photo


1143C-5H, Cored Interval: 34.9-44.4 mbsf
Leg 184 Site 1143 Hole C Core 5H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
36
38
40
42
44
1
2
3
4
5
6
7
Py
Py
Py
PAL
NANNOFOSSIL CLAY WITH FORAMINIFERS
The sediment is a poorly consolidated, relatively homogenous clayey material with frequent, thin, green clay layers and burrowing. There is slight local development of pyrite. There is some variation in the proportion of carbonate downsection shown in a darkening and lightening of the sediment. There is a 7-cm-thick FORAMINIFER OOZE turbidite layer at the base of Section 4. It has normal grading. The nature of the basal contact is obscure but seems to coincide with the section base.

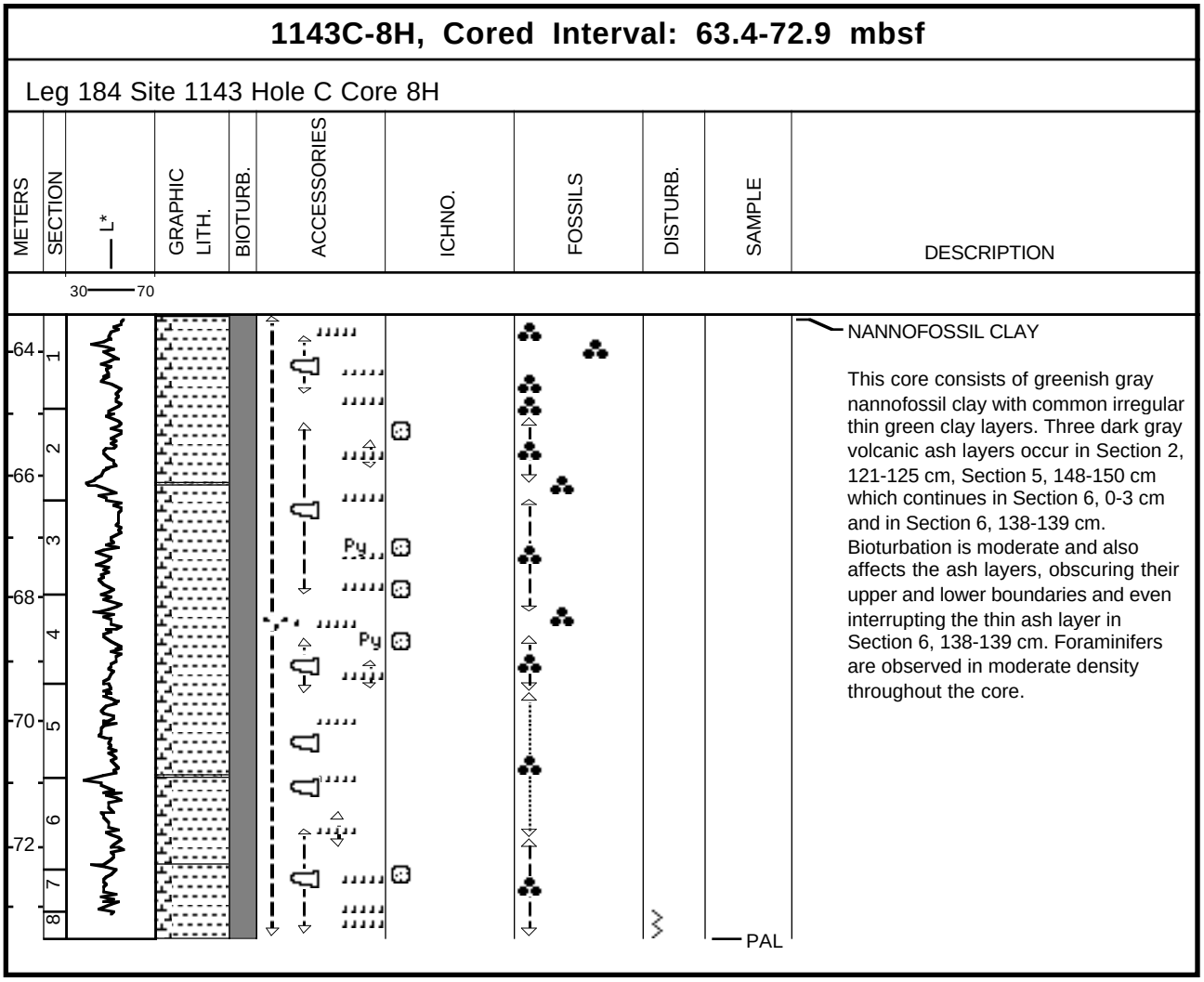
Core Photo


1143C-6H, Cored Interval: 44.4-53.9 mbsf
Leg 184 Site 1143 Hole C Core 6H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
46
48
50
52
54
1
2
3
4
5
6
7
Py
Py
Py
FES
WHC
PAL
NANNOFOSSIL CLAY
Core comprises NANNOFOSSIL CLAY with slight variations in the proportion of clay shown by color variation. Sediment is typically structureless apart from mottling, bioturbation and frequent green clay layers. There appears to be an association of green clay areas with color patches, presumed burrows. Foraminifers are common throughout. A small pod of VOLCANIC ASH material is found at 24 cm in Section 6.

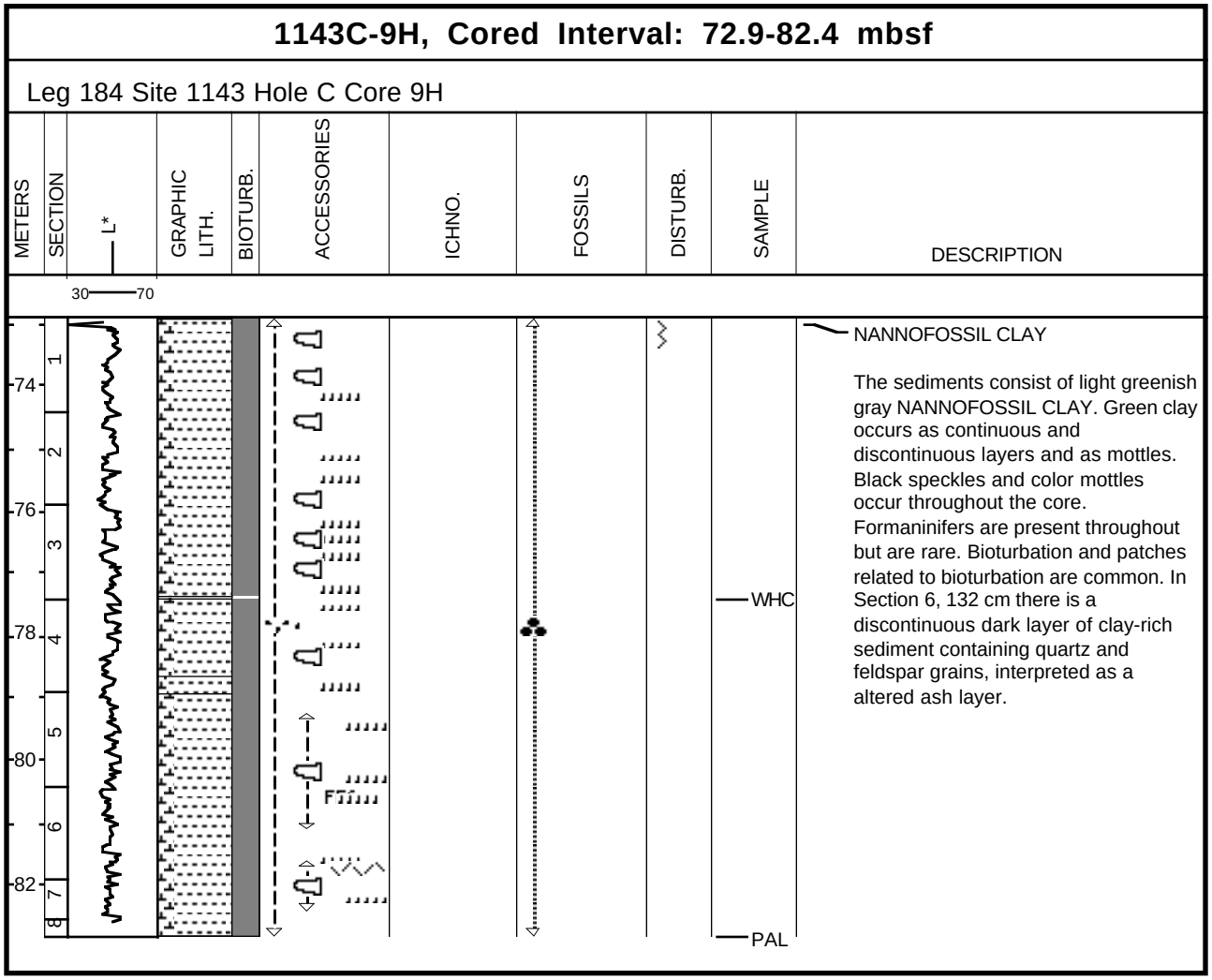
Core Photo


1143C-7H, Cored Interval: 53.9-63.4 mbsf
Leg 184 Site 1143 Hole C Core 7H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
56
58
60
62
1
2
3
4
5
6
7
PAL
NANNOFOSSIL CLAY
The core consists of NANNOFOSSIL CLAY, moderately bioturbated and mottled. Green clay layers and mottles are present throughout.

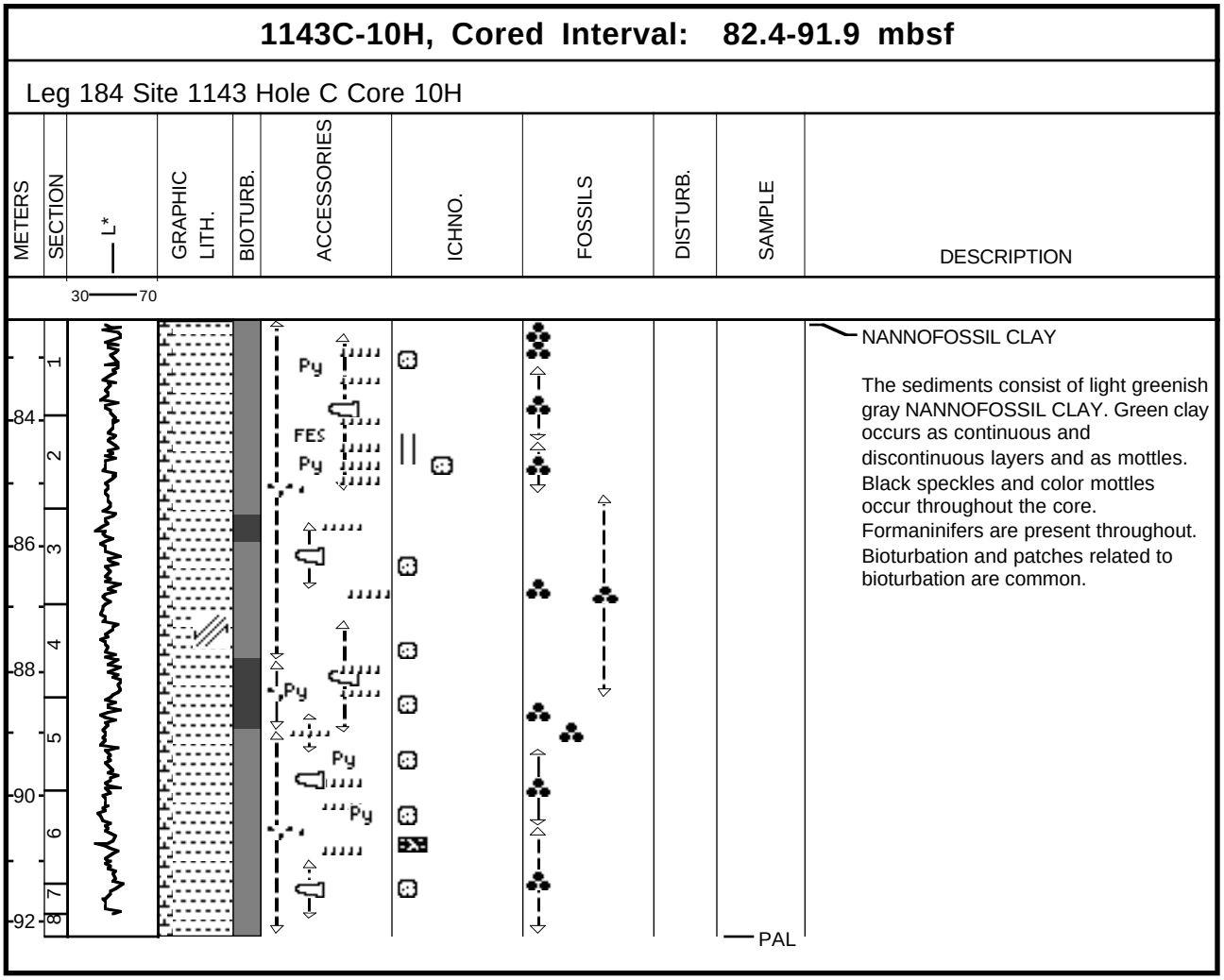
Core Photo


1143C-8H, Cored Interval: 63.4-72.9 mbsf
Leg 184 Site 1143 Hole C Core 8H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
64
66
68
70
72
1
2
3
4
5
6
7
8
Py
Py
PAL
NANNOFOSSIL CLAY
This core consists of greenish gray nannofossil clay with common irregular thin green clay layers. Three dark gray volcanic ash layers occur in Section 2, 121-125 cm, Section 5, 148-150 cm which continues in Section 6, 0-3 cm and in Section 6, 138-139 cm. Bioturbation is moderate and also affects the ash layers, obscuring their upper and lower boundaries and even interrupting the thin ash layer in Section 6, 138-139 cm. Foraminifers are observed in moderate density throughout the core.

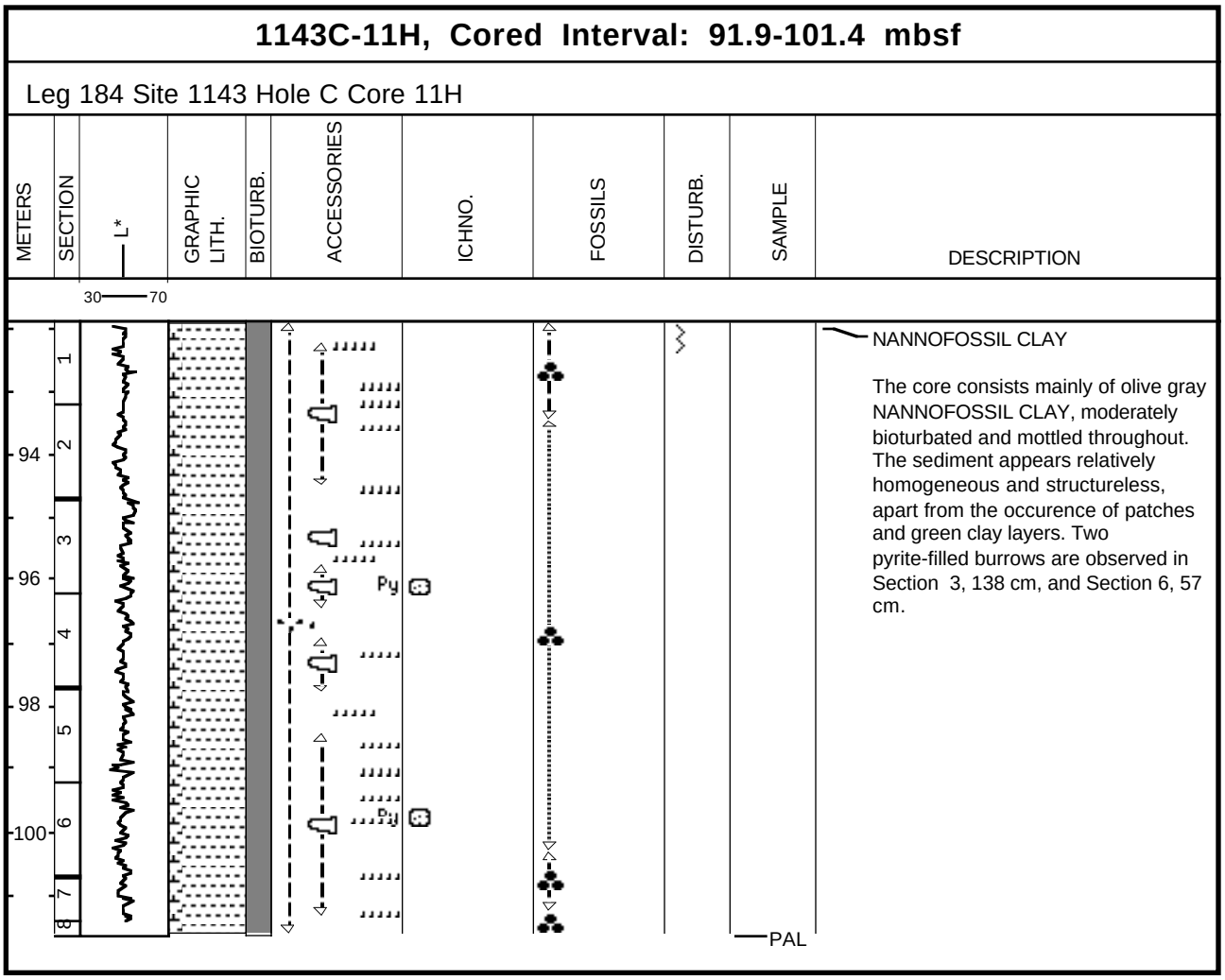
Core Photo


1143C-9H, Cored Interval: 72.9-82.4 mbsf
Leg 184 Site 1143 Hole C Core 9H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
74
76
78
80
82
1
2
3
4
5
6
7
CC
FT
WHC
PAL
NANNOFOSSIL CLAY
The sediments consist of light greenish gray NANNOFOSSIL CLAY. Green clay occurs as continuous and discontinuous layers and as mottles. Black speckles and color mottles occur throughout the core. Formaninifers are present throughout but are rare. Bioturbation and patches related to bioturbation are common. In Section 6, 132 cm there is a discontinuous dark layer of clay-rich sediment containing quartz and feldspar grains, interpreted as a altered ash layer.

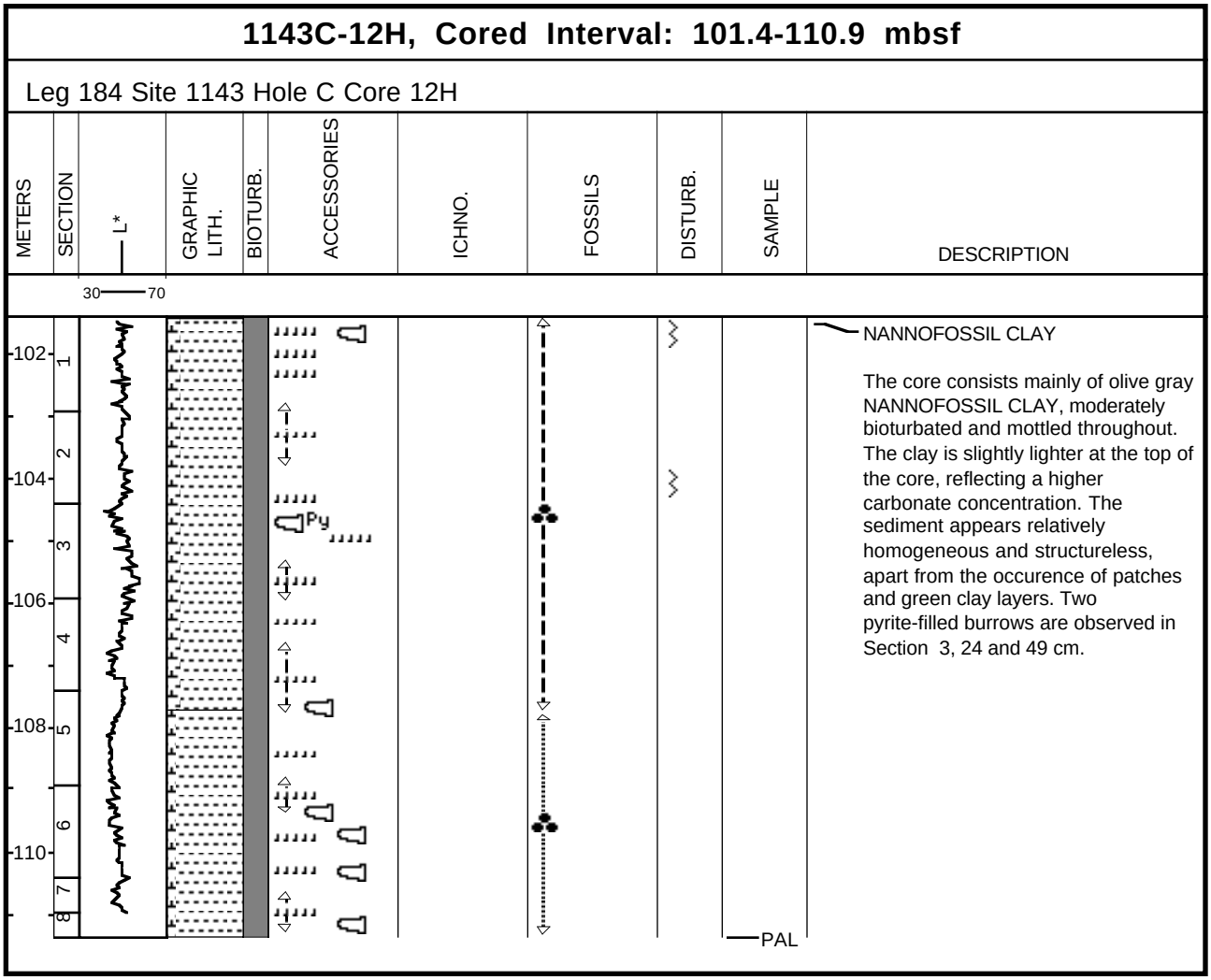
Core Photo


1143C-10H, Cored Interval: 82.4-91.9 mbsf
Leg 184 Site 1143 Hole C Core 10H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
84
86
88
90
92
1
2
3
4
5
6
7
Py
FES
Py
Py
Py
Py
NANNOFOSSIL CLAY
The sediments consist of light greenish gray NANNOFOSSIL CLAY. Green clay occurs as continuous and discontinuous layers and as mottles. Black speckles and color mottles occur throughout the core. Formaninifers are present throughout. Bioturbation and patches related to bioturbation are common.
PAL

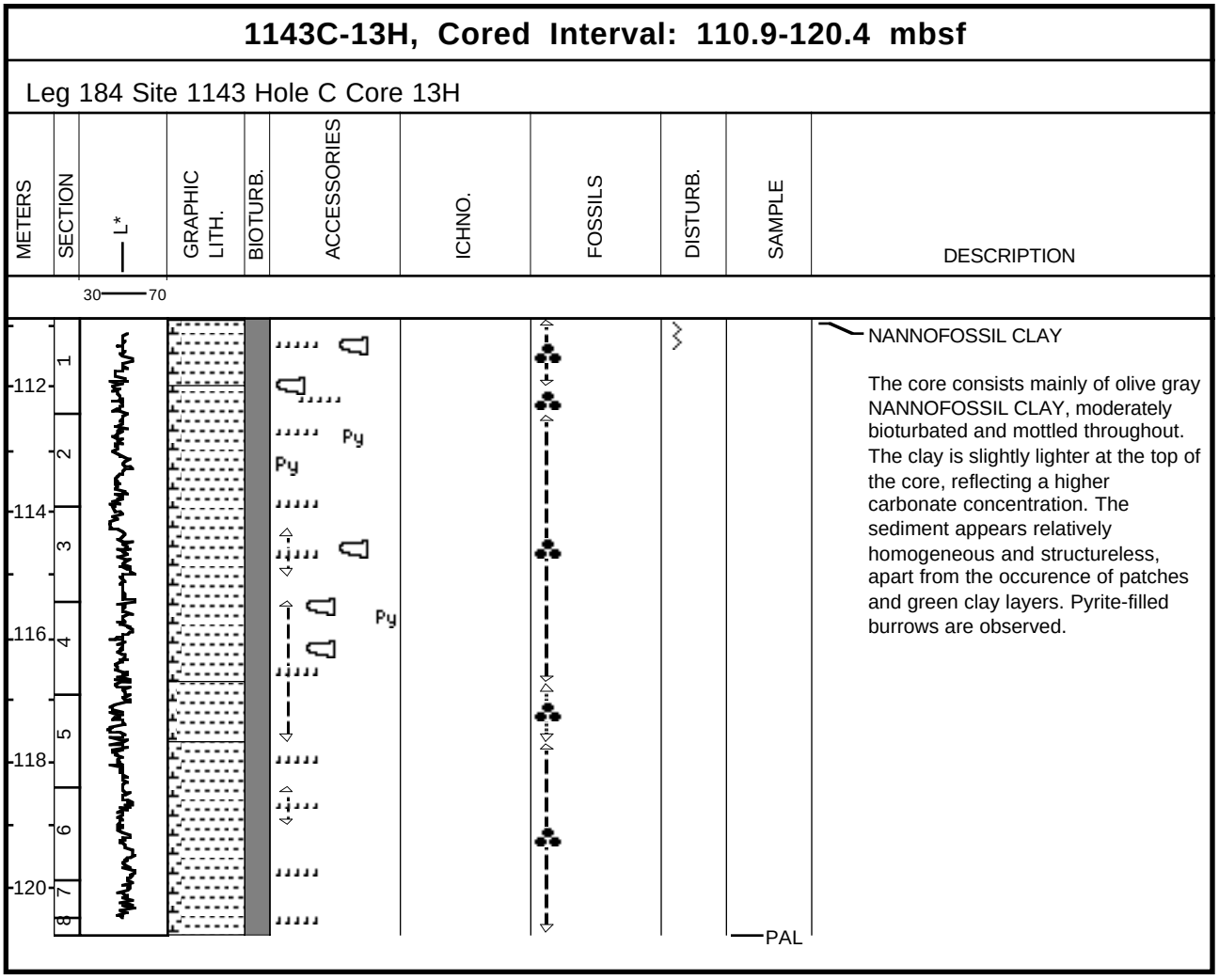
Core Photo


1143C-11H, Cored Interval: 91.9-101.4 mbsf
Leg 184 Site 1143 Hole C Core 11H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
94
96
98
100
1
2
3
4
5
6
7
Py
Py
PAL
NANNOFOSSIL CLAY
The core consists mainly of olive gray NANNOFOSSIL CLAY, moderately bioturbated and mottled throughout. The sediment appears relatively homogeneous and structureless, apart from the occurence of patches and green clay layers. Two pyrite-filled burrows are observed in Section 3, 138 cm, and Section 6, 57 cm.

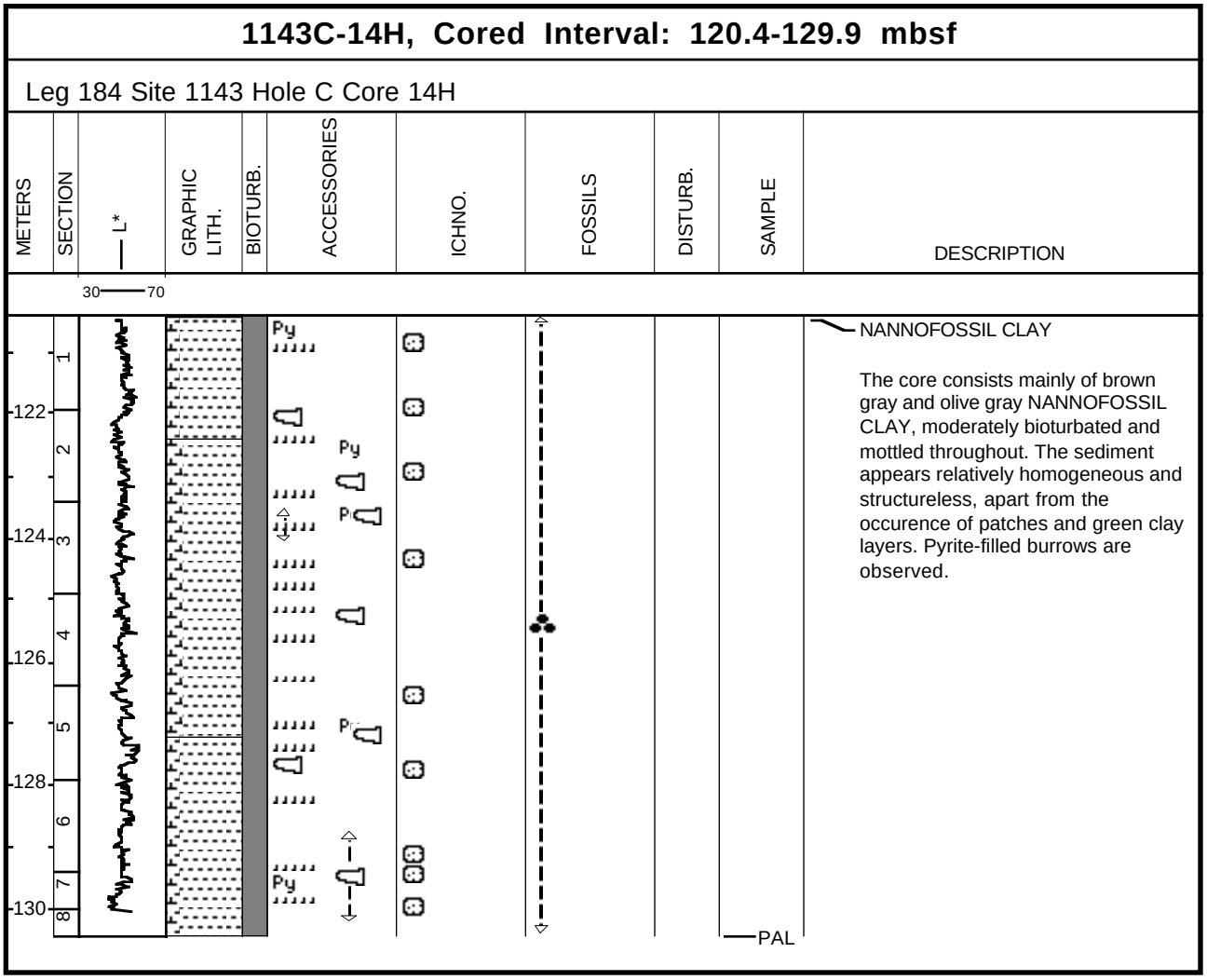
Core Photo


1143C-12H, Cored Interval: 101.4-110.9 mbsf
Leg 184 Site 1143 Hole C Core 12H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
102
104
106
108
110
1
2
3
4
5
6
7
8
Py
PAL
NANNOFOSSIL CLAY
The core consists mainly of olive gray NANNOFOSSIL CLAY, moderately bioturbated and mottled throughout. The clay is slightly lighter at the top of the core, reflecting a higher carbonate concentration. The sediment appears relatively homogeneous and structureless, apart from the occurence of patches and green clay layers. Two pyrite-filled burrows are observed in Section 3, 24 and 49 cm.

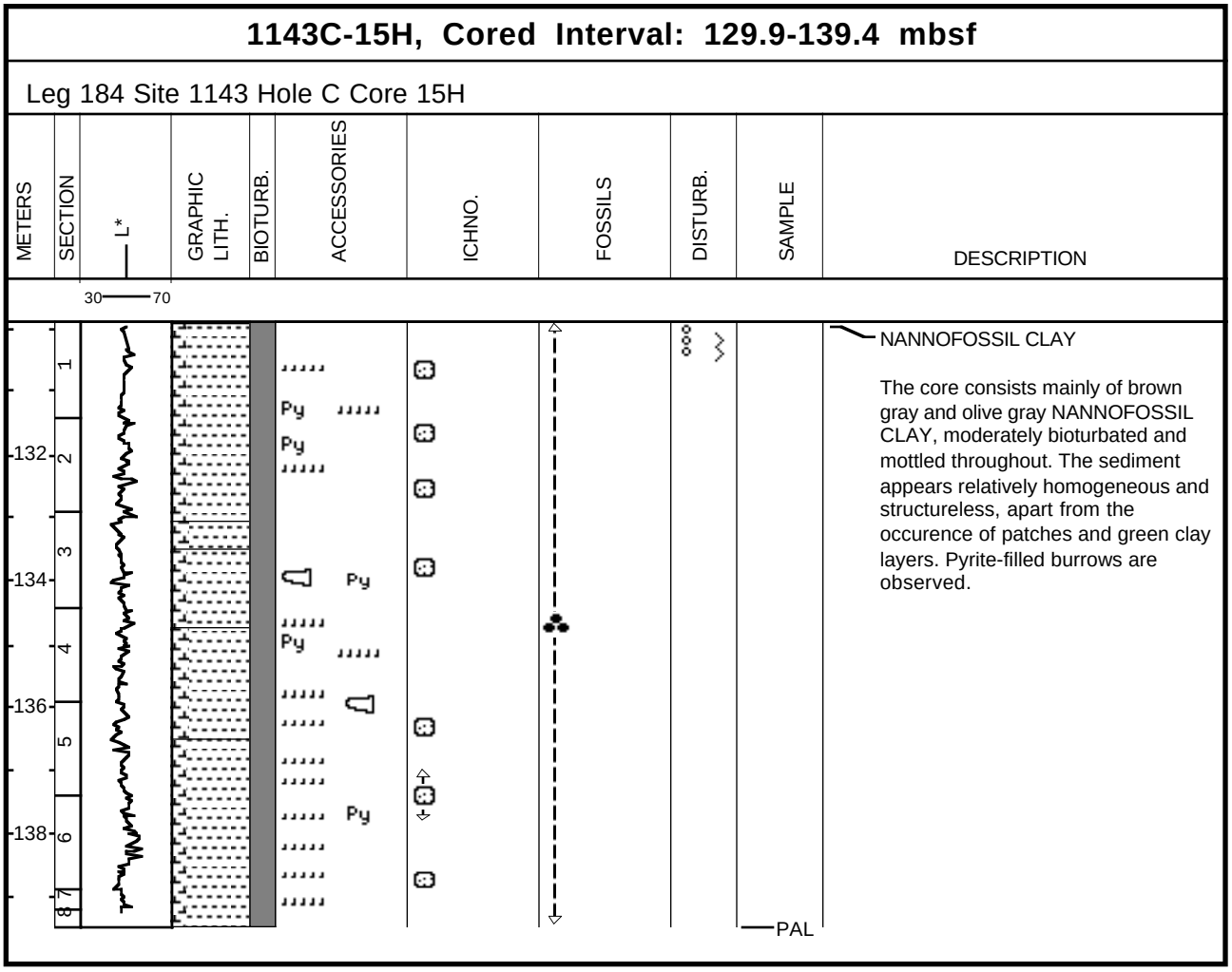
Core Photo


1143C-13H, Cored Interval: 110.9-120.4 mbsf
Leg 184 Site 1143 Hole C Core 13H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
112
114
116
118
120
1
2
3
4
5
6
7
Py
Py
Py
PAL
NANNOFOSSIL CLAY
The core consists mainly of olive gray NANNOFOSSIL CLAY, moderately bioturbated and mottled throughout. The clay is slightly lighter at the top of the core, reflecting a higher carbonate concentration. The sediment appears relatively homogeneous and structureless, apart from the occurence of patches and green clay layers. Pyrite-filled burrows are observed.

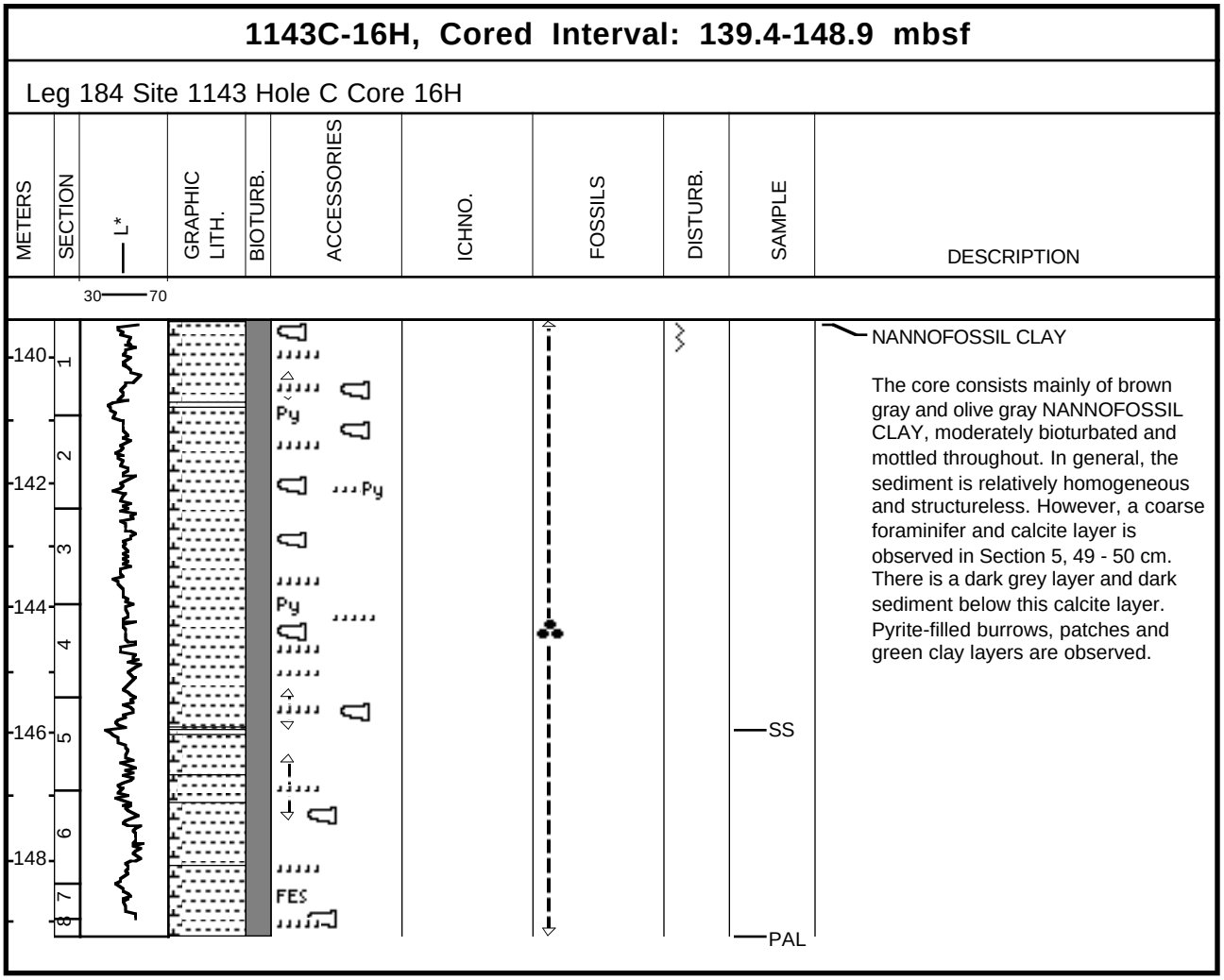
Core Photo


1143C-14H, Cored Interval: 120.4-129.9 mbsf
Leg 184 Site 1143 Hole C Core 14H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
122
124
126
128
130
1
2
3
4
5
6
7
8
Py
PAL
NANNOFOSSIL CLAY
The core consists mainly of brown gray and olive gray NANNOFOSSIL CLAY, moderately bioturbated and mottled throughout. The sediment appears relatively homogeneous and structureless, apart from the occurence of patches and green clay layers. Pyrite-filled burrows are observed.

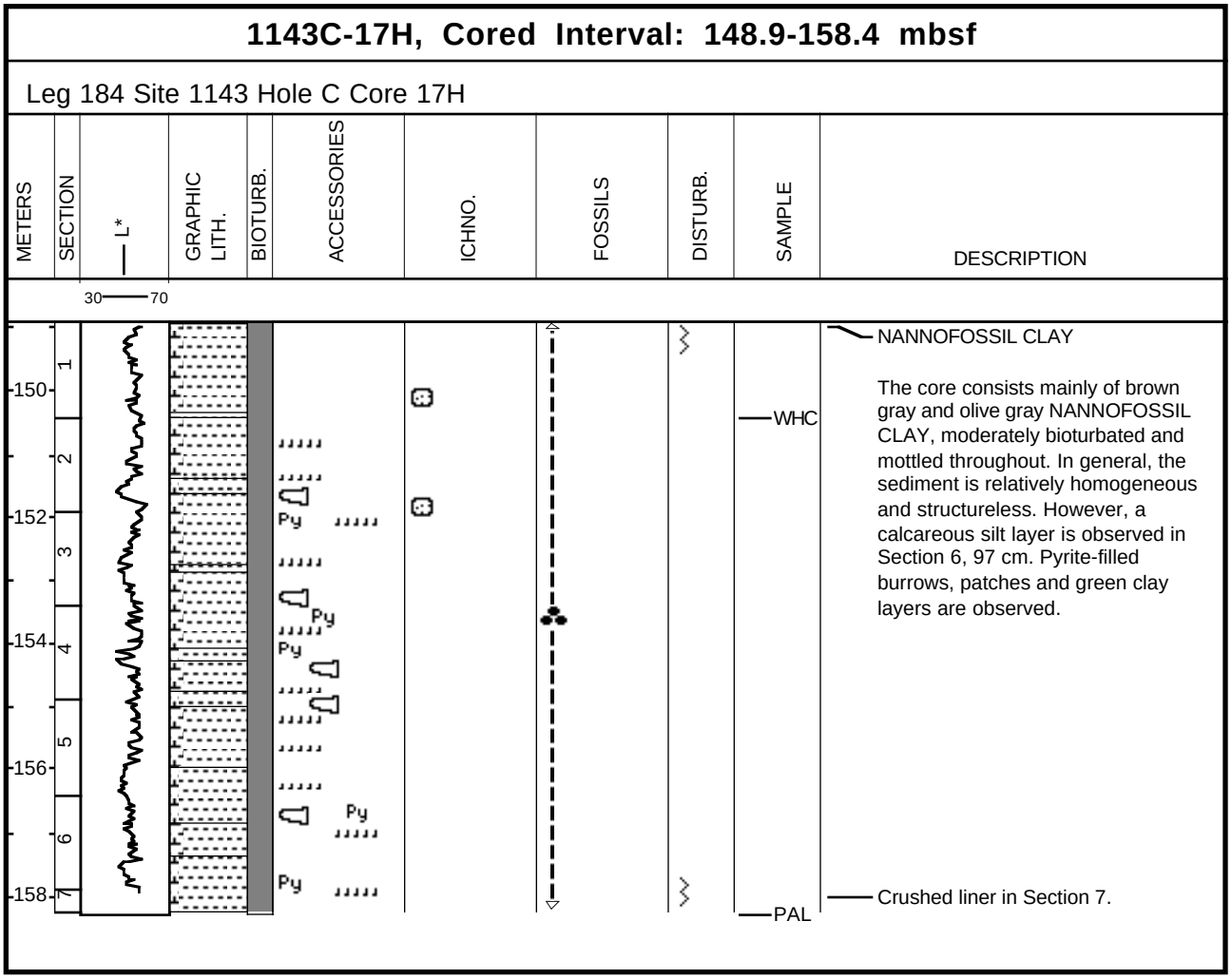
Core Photo


1143C-15H, Cored Interval: 129.9-139.4 mbsf
Leg 184 Site 1143 Hole C Core 15H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
132
134
136
138
1
2
3
4
5
6
7
Py
Py
Py
Py
PAL
NANNOFOSSIL CLAY
The core consists mainly of brown gray and olive gray NANNOFOSSIL CLAY, moderately bioturbated and mottled throughout. The sediment appears relatively homogeneous and structureless, apart from the occurence of patches and green clay layers. Pyrite-filled burrows are observed.

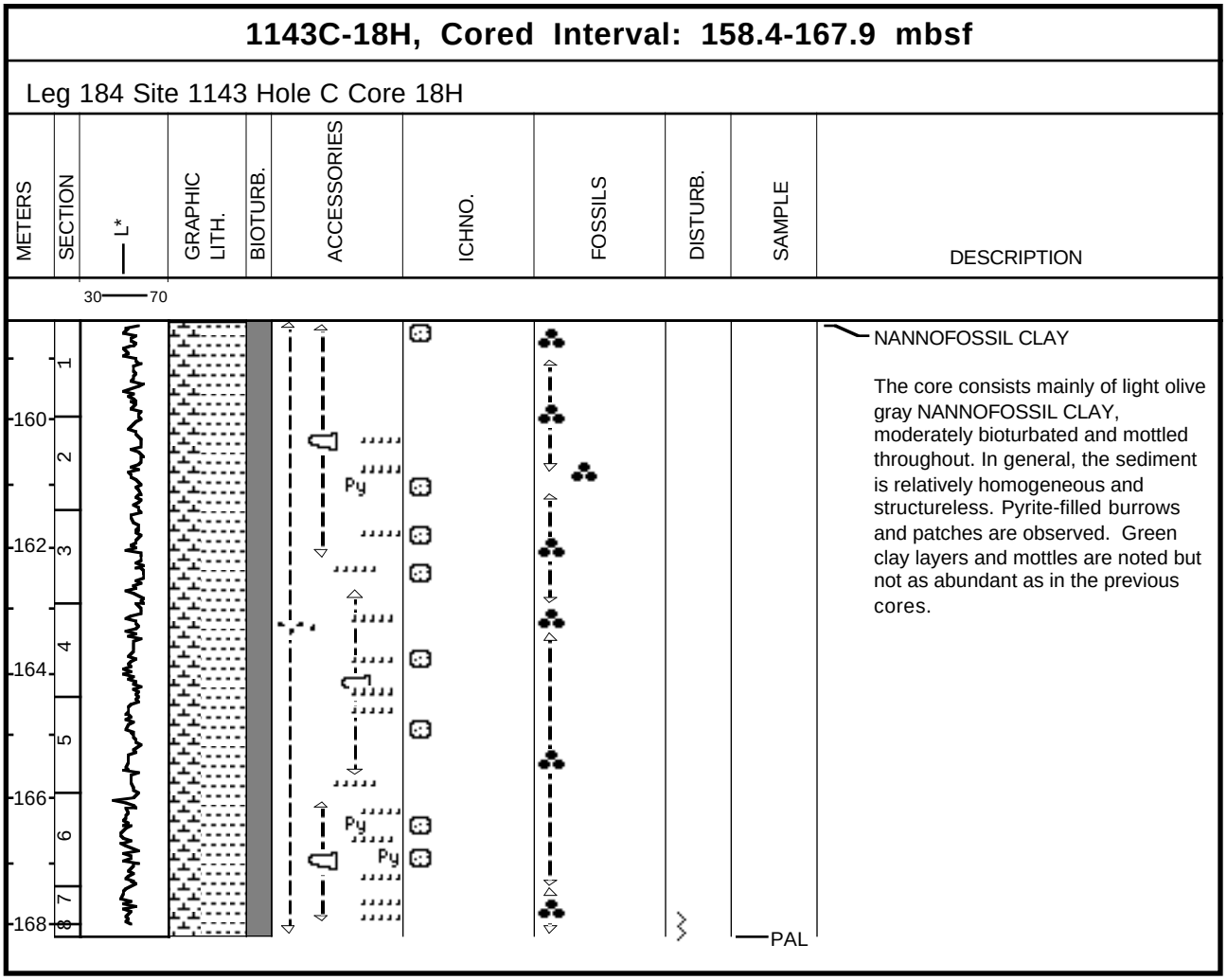
Core Photo


1143C-16H, Cored Interval: 139.4-148.9 mbsf
Leg 184 Site 1143 Hole C Core 16H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
140
142
144
146
148
1
2
3
4
5
6
7
Py
Py
Py
FES
SS
PAL
NANNOFOSSIL CLAY
The core consists mainly of brown gray and olive gray NANNOFOSSIL CLAY, moderately bioturbated and mottled throughout. In general, the sediment is relatively homogeneous and structureless. However, a coarse foraminifer and calcite layer is observed in Section 5, 49 - 50 cm. There is a dark grey layer and dark sediment below this calcite layer. Pyrite-filled burrows, patches and green clay layers are observed.

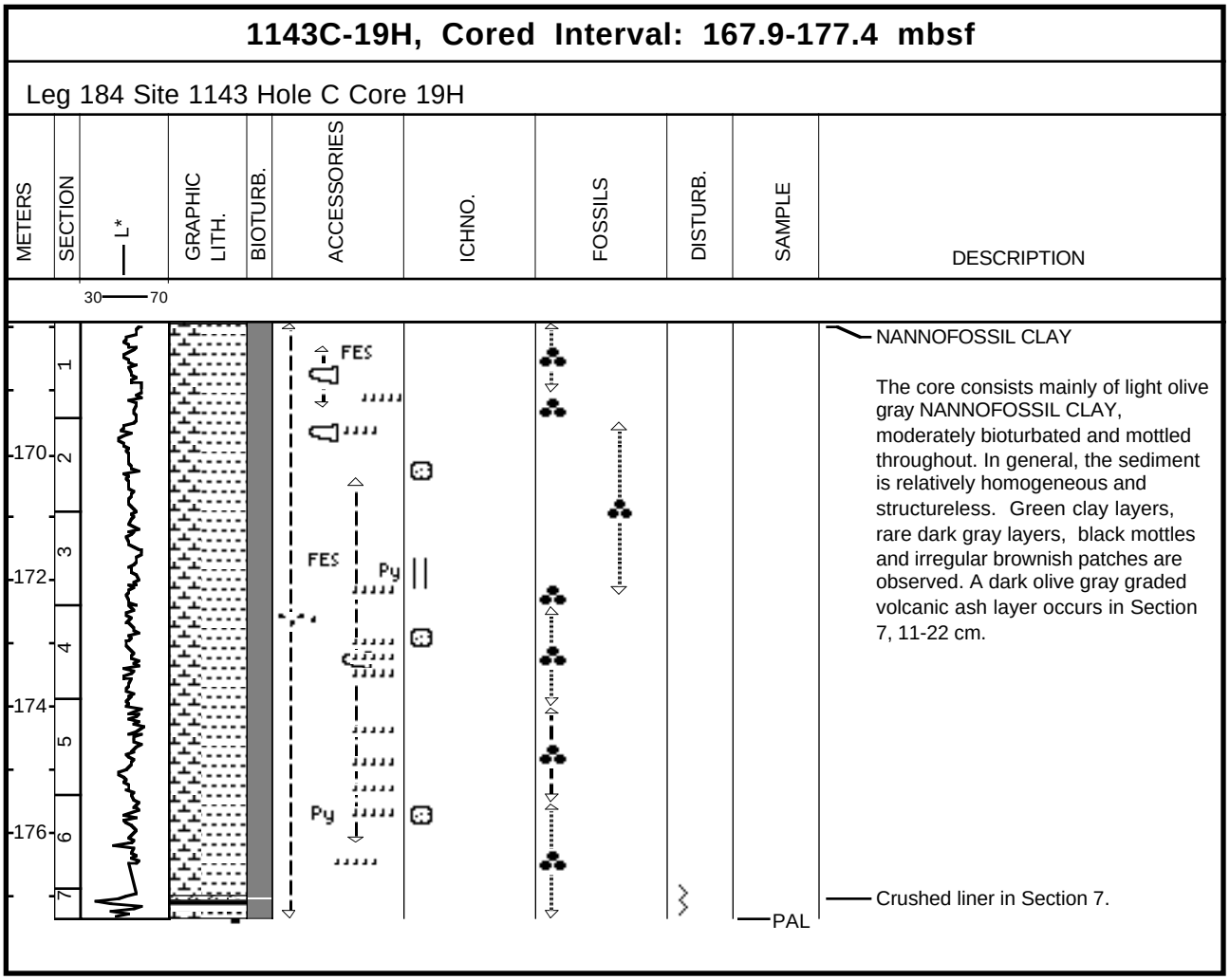
Core Photo


1143C-17H, Cored Interval: 148.9-158.4 mbsf
Leg 184 Site 1143 Hole C Core 17H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
150
152
154
156
158
1
2
3
4
5
6
7
Py
WHC
PAL
NANNOFOSSIL CLAY
The core consists mainly of brown gray and olive gray NANNOFOSSIL CLAY, moderately bioturbated and mottled throughout. In general, the sediment is relatively homogeneous and structureless. However, a calcareous silt layer is observed in Section 6, 97 cm. Pyrite-filled burrows, patches and green clay layers are observed.
Crushed liner in Section 7.

Core Photo


1143C-18H, Cored Interval: 158.4-167.9 mbsf
Leg 184 Site 1143 Hole C Core 18H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
160
162
164
166
168
1
2
3
4
5
6
7
Py
Py
Py
PAL
NANNOFOSSIL CLAY
The core consists mainly of light olive gray NANNOFOSSIL CLAY, moderately bioturbated and mottled throughout. In general, the sediment is relatively homogeneous and structureless. Pyrite-filled burrows and patches are observed. Green clay layers and mottles are noted but not as abundant as in the previous cores.

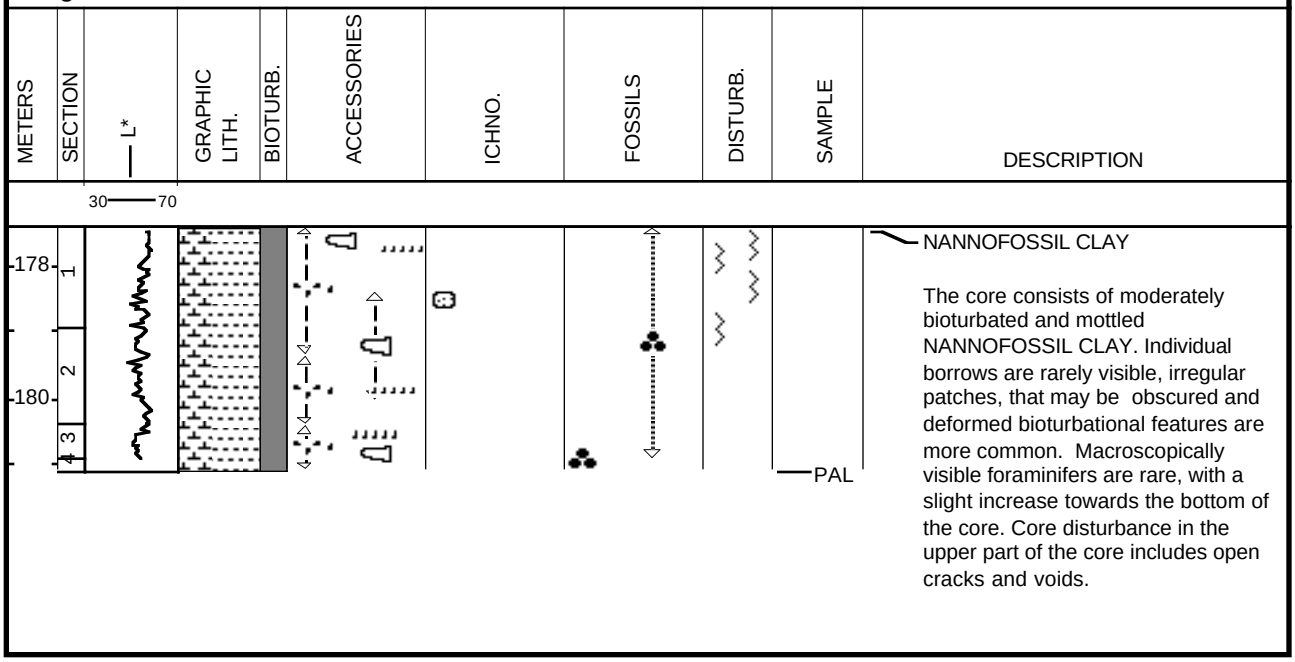
Core Photo


1143C-19H, Cored Interval: 167.9-177.4 mbsf
Leg 184 Site 1143 Hole C Core 19H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
170
172
174
176
1
2
3
4
5
6
7
FES
FES
Py
Py
PAL
NANNOFOSSIL CLAY
The core consists mainly of light olive gray NANNOFOSSIL CLAY, moderately bioturbated and mottled throughout. In general, the sediment is relatively homogeneous and structureless. Green clay layers, rare dark gray layers, black mottles and irregular brownish patches are observed. A dark olive gray graded volcanic ash layer occurs in Section 7, 11-22 cm.
Crushed liner in Section 7.

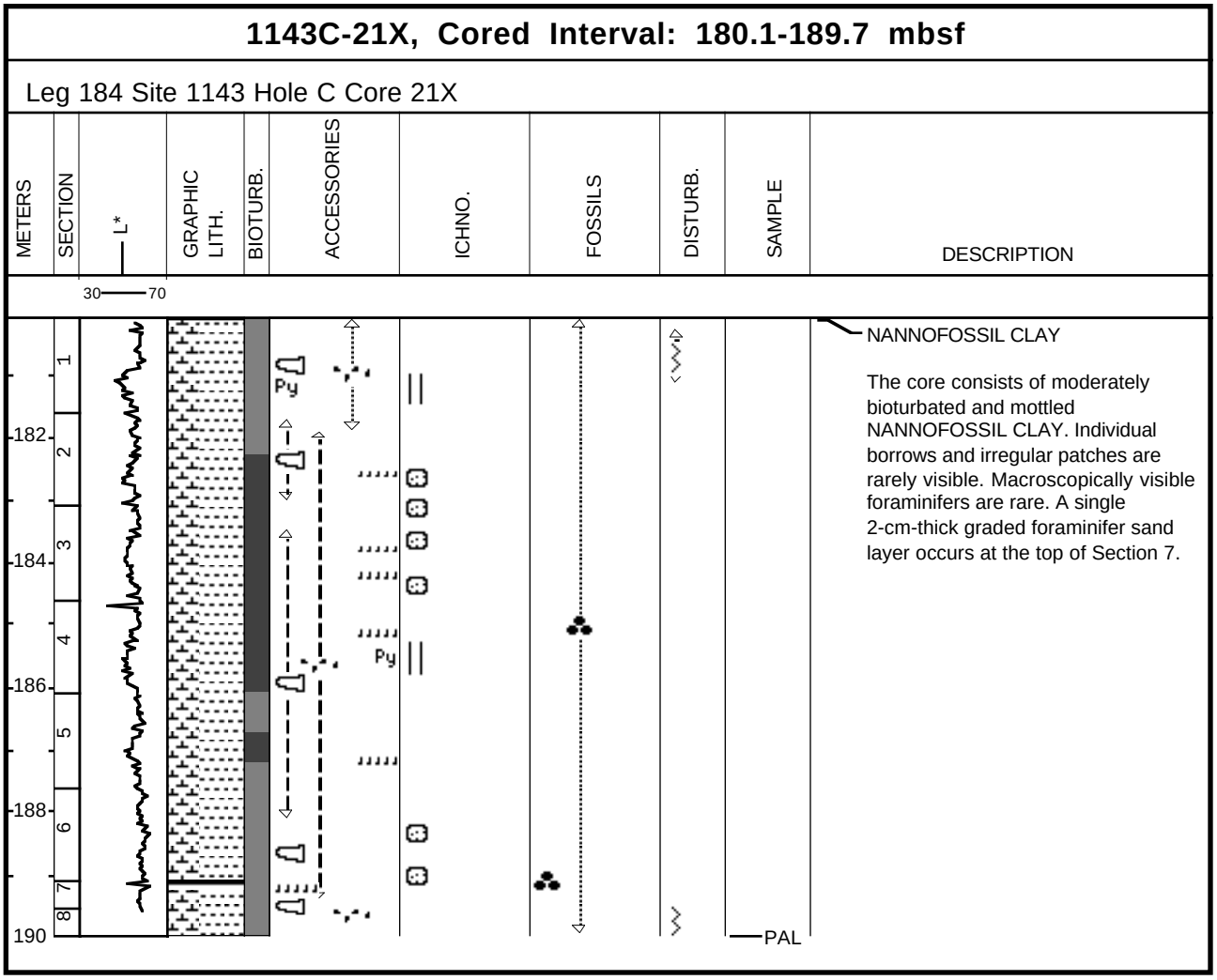
Core Photo

1143C-20X, Cored Interval: 177.4-180.1 mbsf

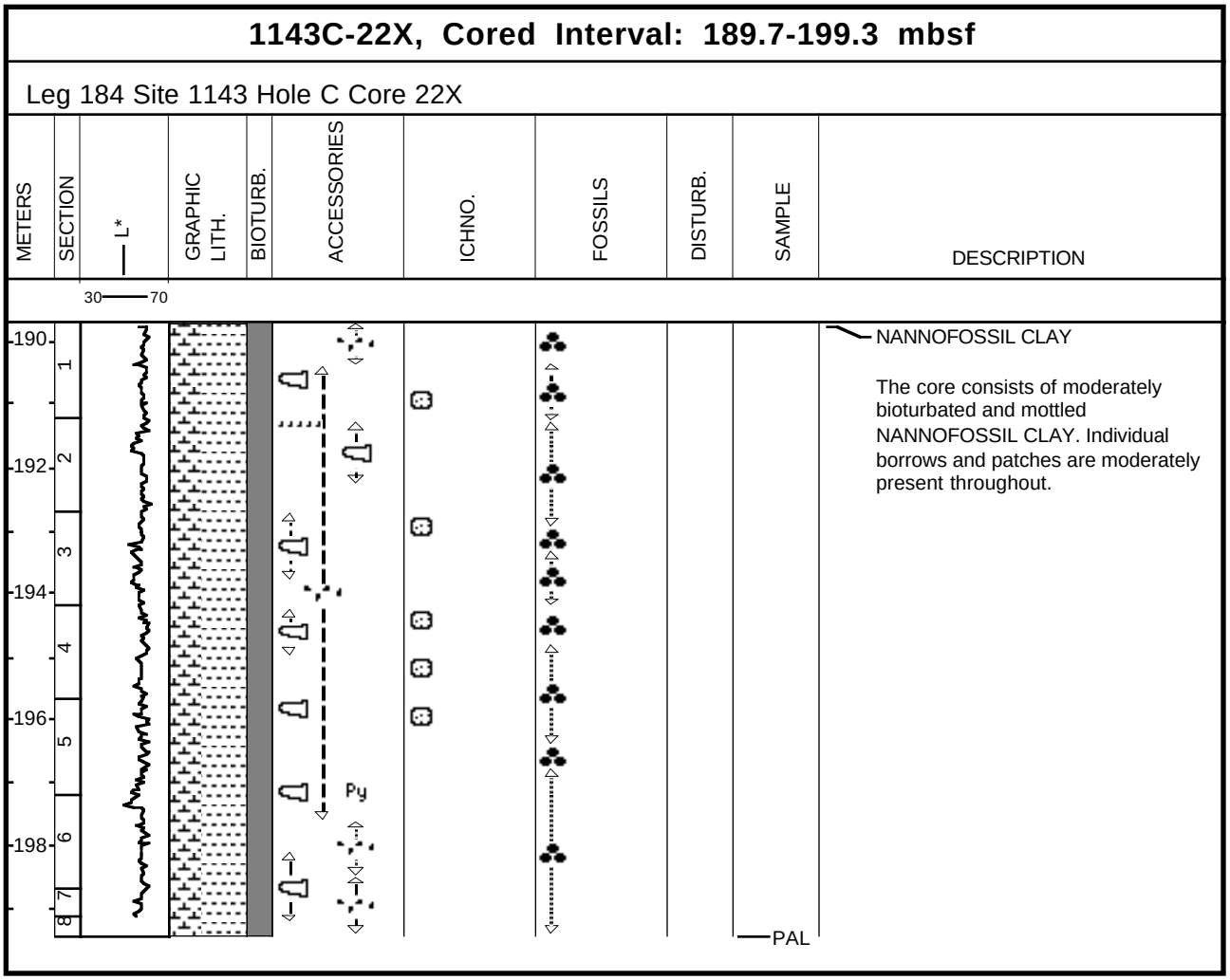
Leg 184 Site 1143 Hole C Core 20X



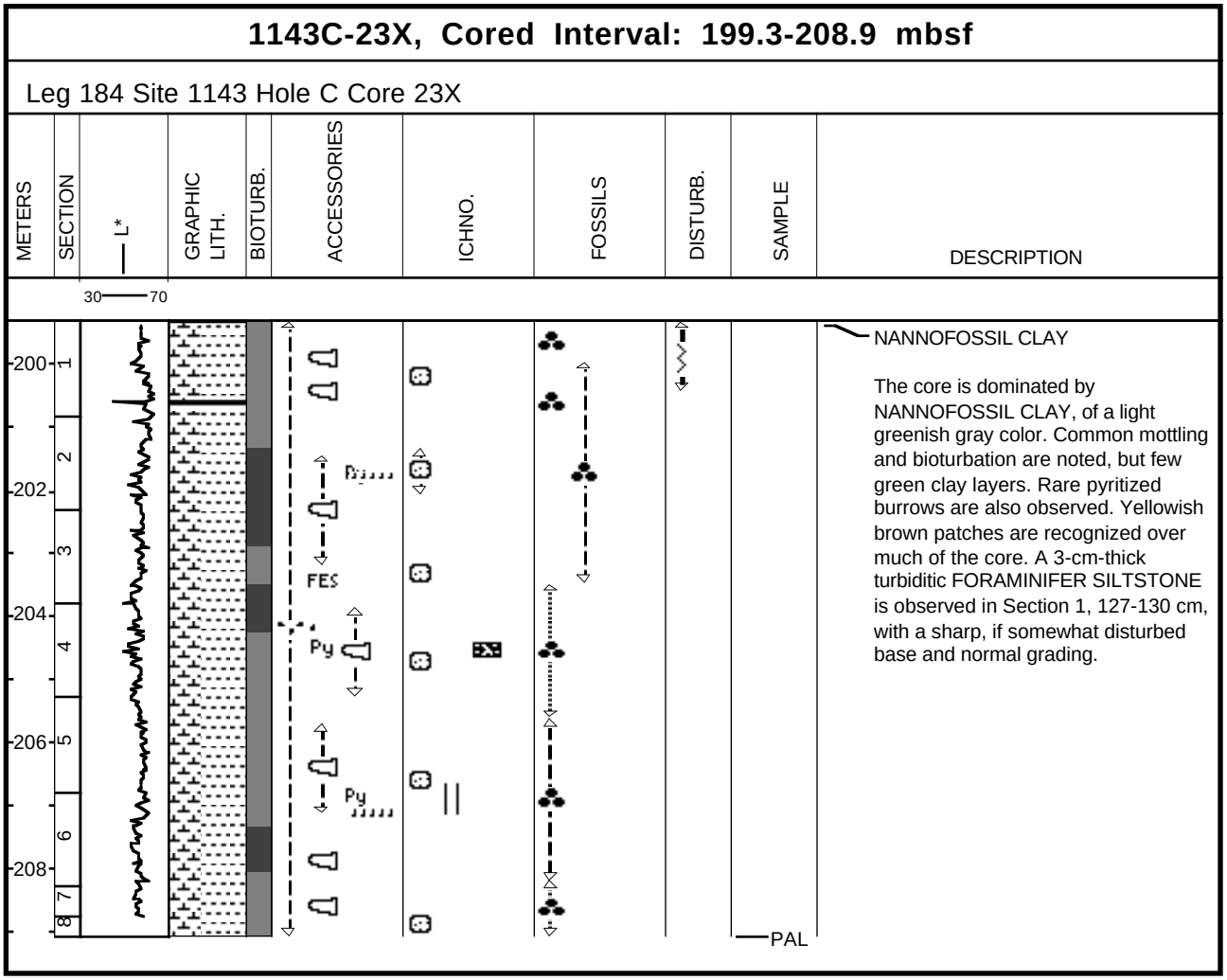
Core Photo


1143C-21X, Cored Interval: 180.1-189.7 mbsf
Leg 184 Site 1143 Hole C Core 21X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
182
184
186
188
190
1
2
3
4
5
6
7
8
Py
Py
PAL
NANNOFOSSIL CLAY
The core consists of moderately bioturbated and mottled NANNOFOSSIL CLAY. Individual borrows and irregular patches are rarely visible. Macroscopically visible foraminifers are rare. A single 2-cm-thick graded foraminifer sand layer occurs at the top of Section 7.

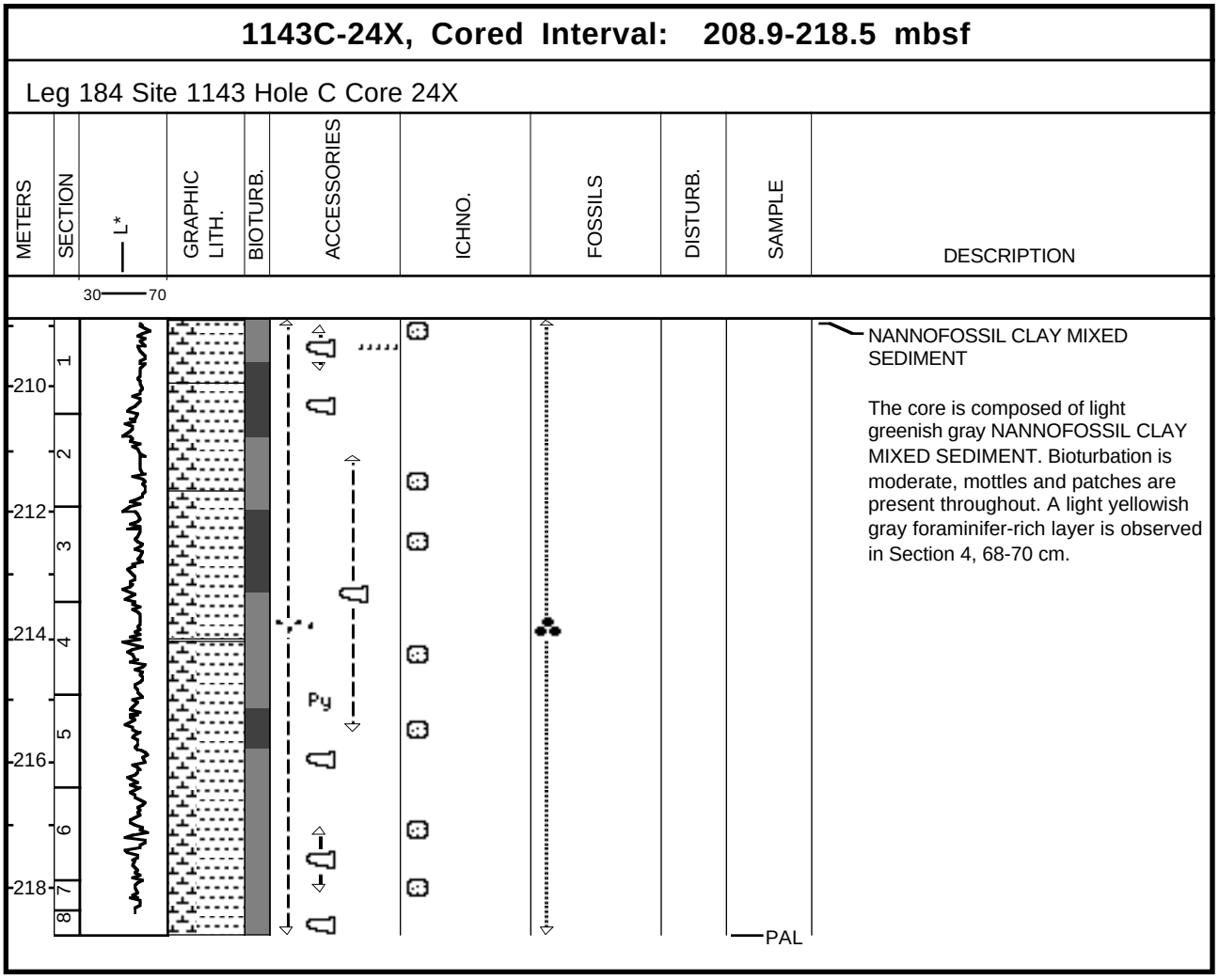
Core Photo


1143C-22X, Cored Interval: 189.7-199.3 mbsf
Leg 184 Site 1143 Hole C Core 22X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
190
192
194
196
198
1
2
3
4
5
6
7
Py
PAL
NANNOFOSSIL CLAY
The core consists of moderately bioturbated and mottled NANNOFOSSIL CLAY. Individual borrows and patches are moderately present throughout.

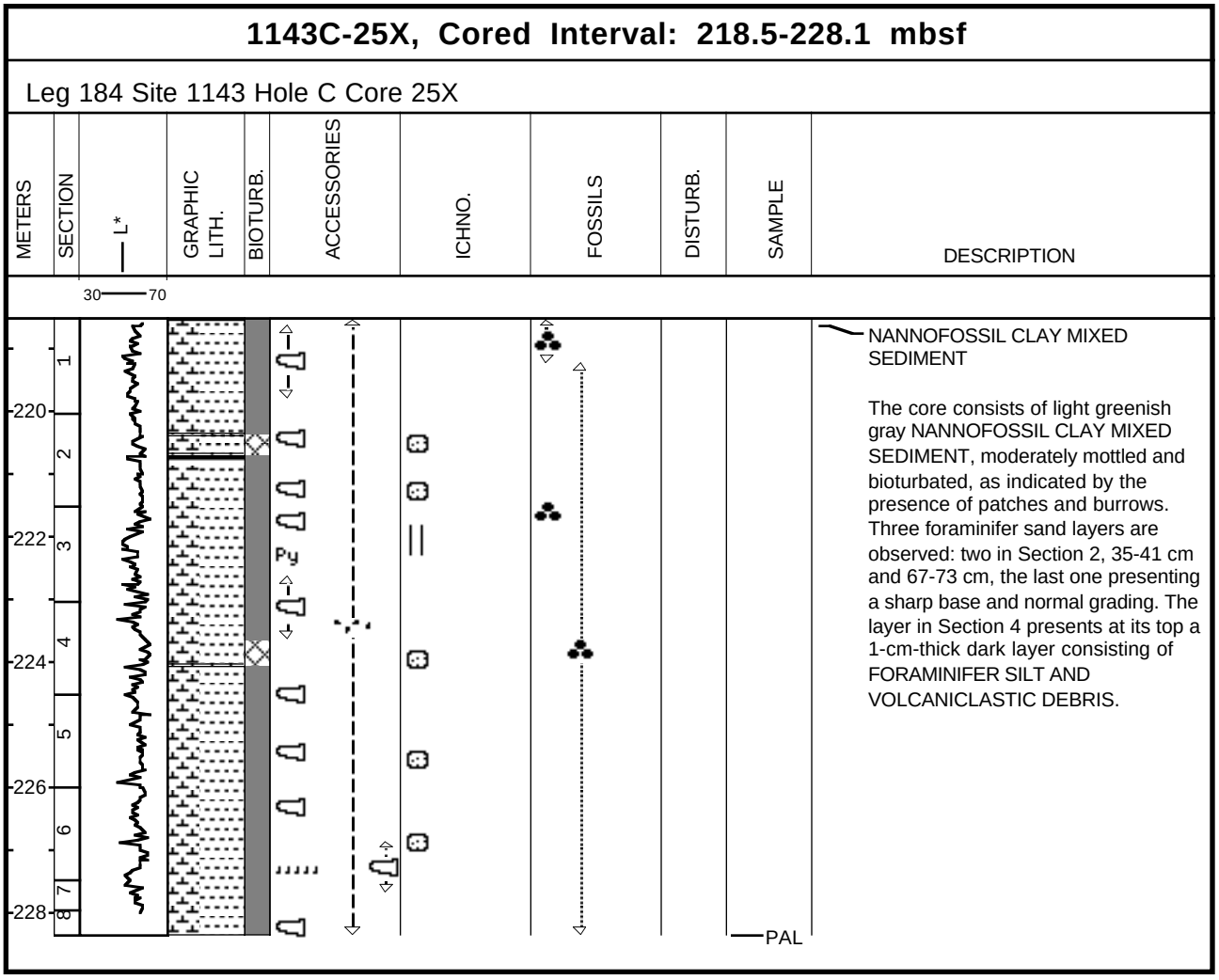
Core Photo


1143C-23X, Cored Interval: 199.3-208.9 mbsf
Leg 184 Site 1143 Hole C Core 23X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
200
202
204
206
208
1
2
3
4
5
6
7
8
FES
Py
Py
PAL
NANNOFOSSIL CLAY
The core is dominated by NANNOFOSSIL CLAY, of a light greenish gray color. Common mottling and bioturbation are noted, but few green clay layers. Rare pyritized burrows are also observed. Yellowish brown patches are recognized over much of the core. A 3-cm-thick turbiditic FORAMINIFER SILTSTONE is observed in Section 1, 127-130 cm, with a sharp, if somewhat disturbed base and normal grading.

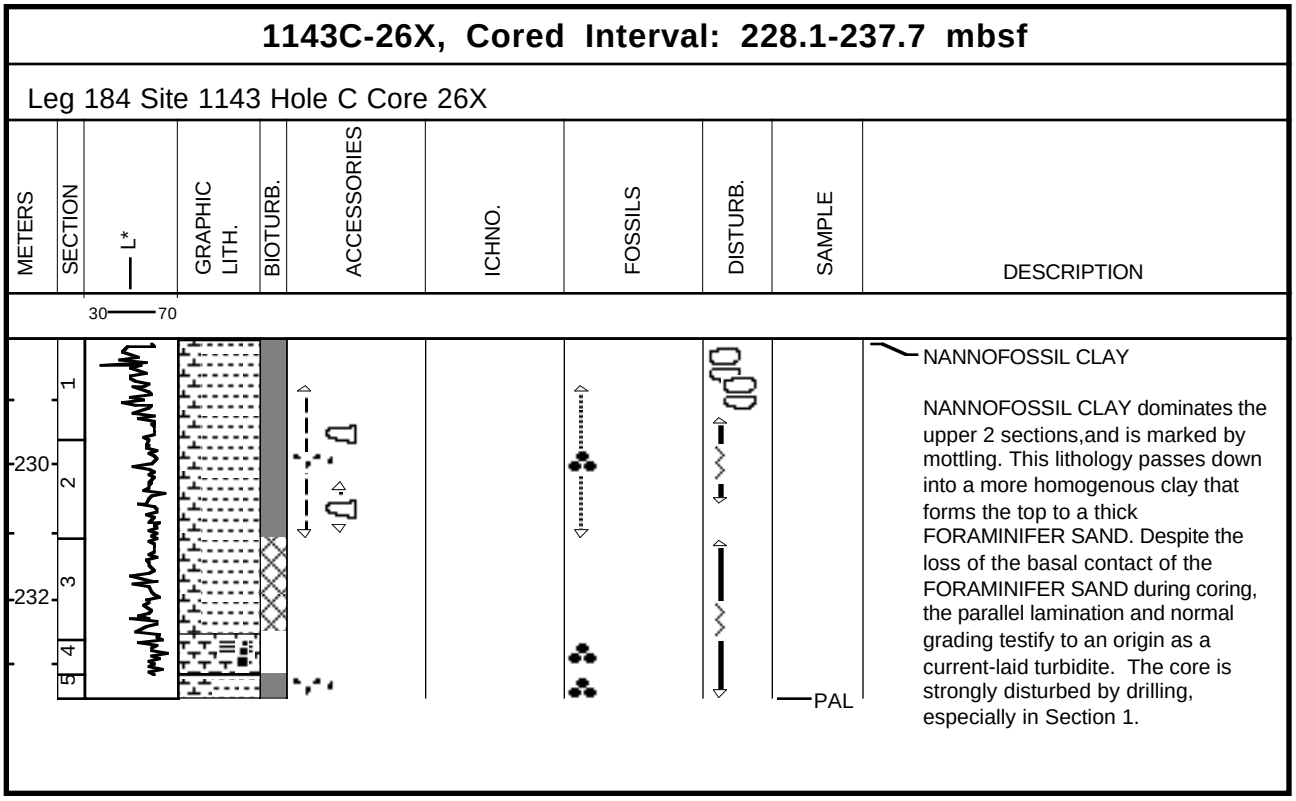
Core Photo


1143C-24X, Cored Interval: 208.9-218.5 mbsf
Leg 184 Site 1143 Hole C Core 24X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
210
212
214
216
218
1
2
3
4
5
6
7
8
Py
PAL
NANNOFOSSIL CLAY MIXED SEDIMENT
The core is composed of light greenish gray NANNOFOSSIL CLAY MIXED SEDIMENT. Bioturbation is moderate, mottles and patches are present throughout. A light yellowish gray foraminifer-rich layer is observed in Section 4, 68-70 cm.

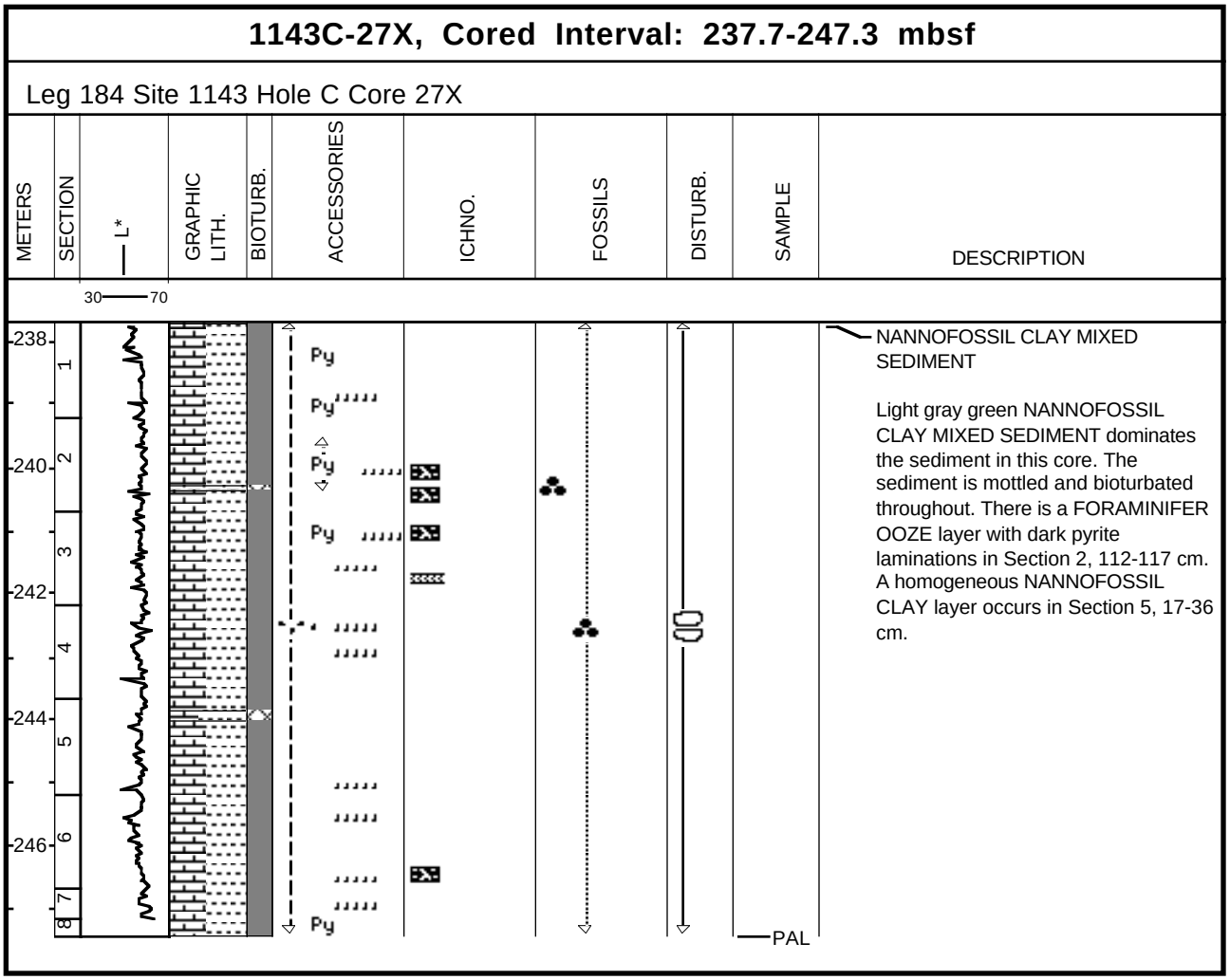
Core Photo


1143C-25X, Cored Interval: 218.5-228.1 mbsf
Leg 184 Site 1143 Hole C Core 25X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
220
222
224
226
228
1
2
3
4
5
6
7
CC
PAL
NANNOFOSSIL CLAY MIXED SEDIMENT
The core consists of light greenish gray NANNOFOSSIL CLAY MIXED SEDIMENT, moderately mottled and bioturbated, as indicated by the presence of patches and burrows. Three foraminifer sand layers are observed: two in Section 2, 35-41 cm and 67-73 cm, the last one presenting a sharp base and normal grading. The layer in Section 4 presents at its top a 1-cm-thick dark layer consisting of FORAMINIFER SILT AND VOLCANICLASTIC DEBRIS.

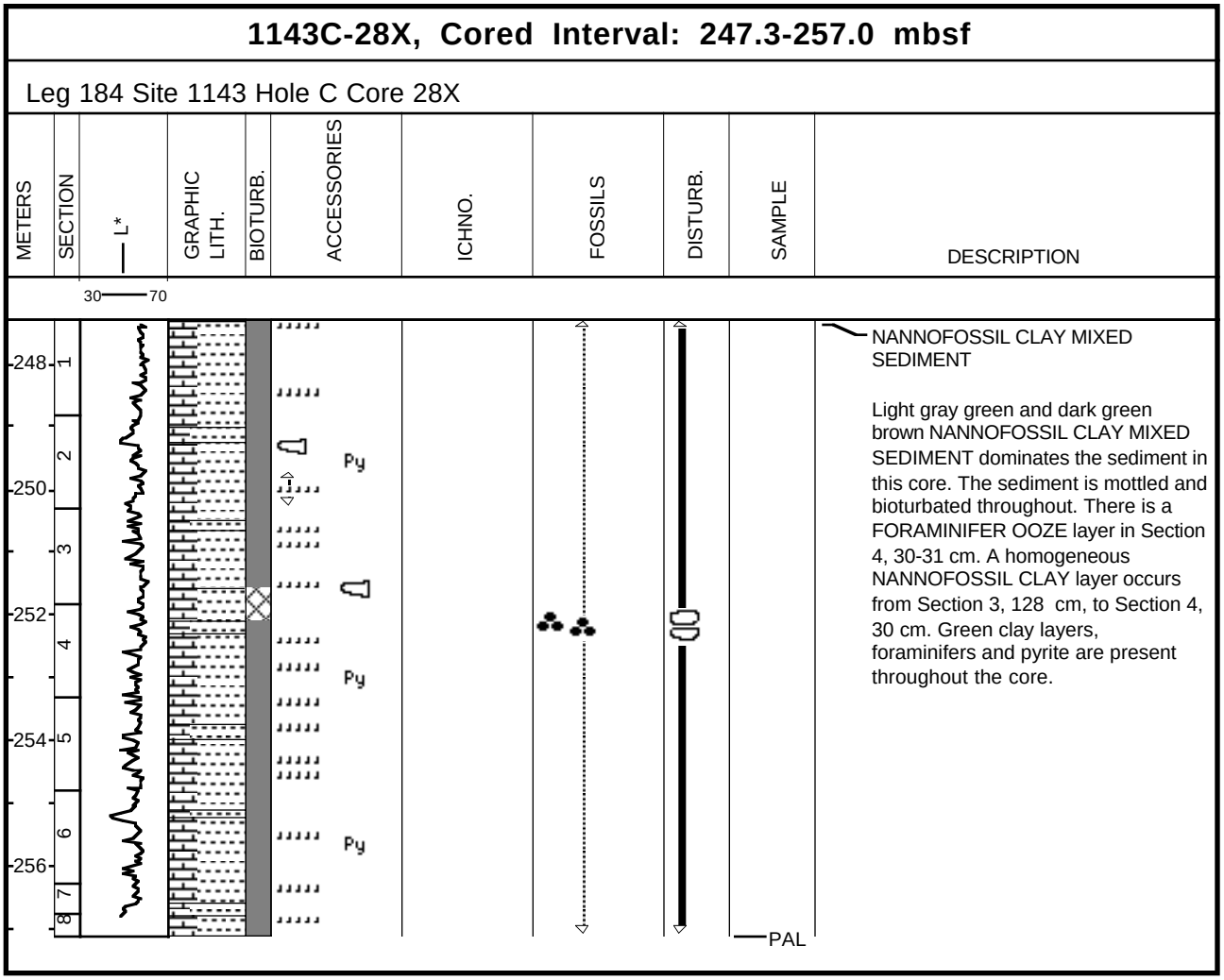
Core Photo


1143C-26X, Cored Interval: 228.1-237.7 mbsf
Leg 184 Site 1143 Hole C Core 26X
METERS
SECTION
L*
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
30
70
230
232
1
2
3
4
5
PAL
NANNOFOSSIL CLAY
NANNOFOSSIL CLAY dominates the upper 2 sections,and is marked by mottling. This lithology passes down into a more homogenous clay that forms the top to a thick FORAMINIFER SAND. Despite the loss of the basal contact of the FORAMINIFER SAND during coring, the parallel lamination and normal grading testify to an origin as a current-laid turbidite. The core is strongly disturbed by drilling, especially in Section 1.

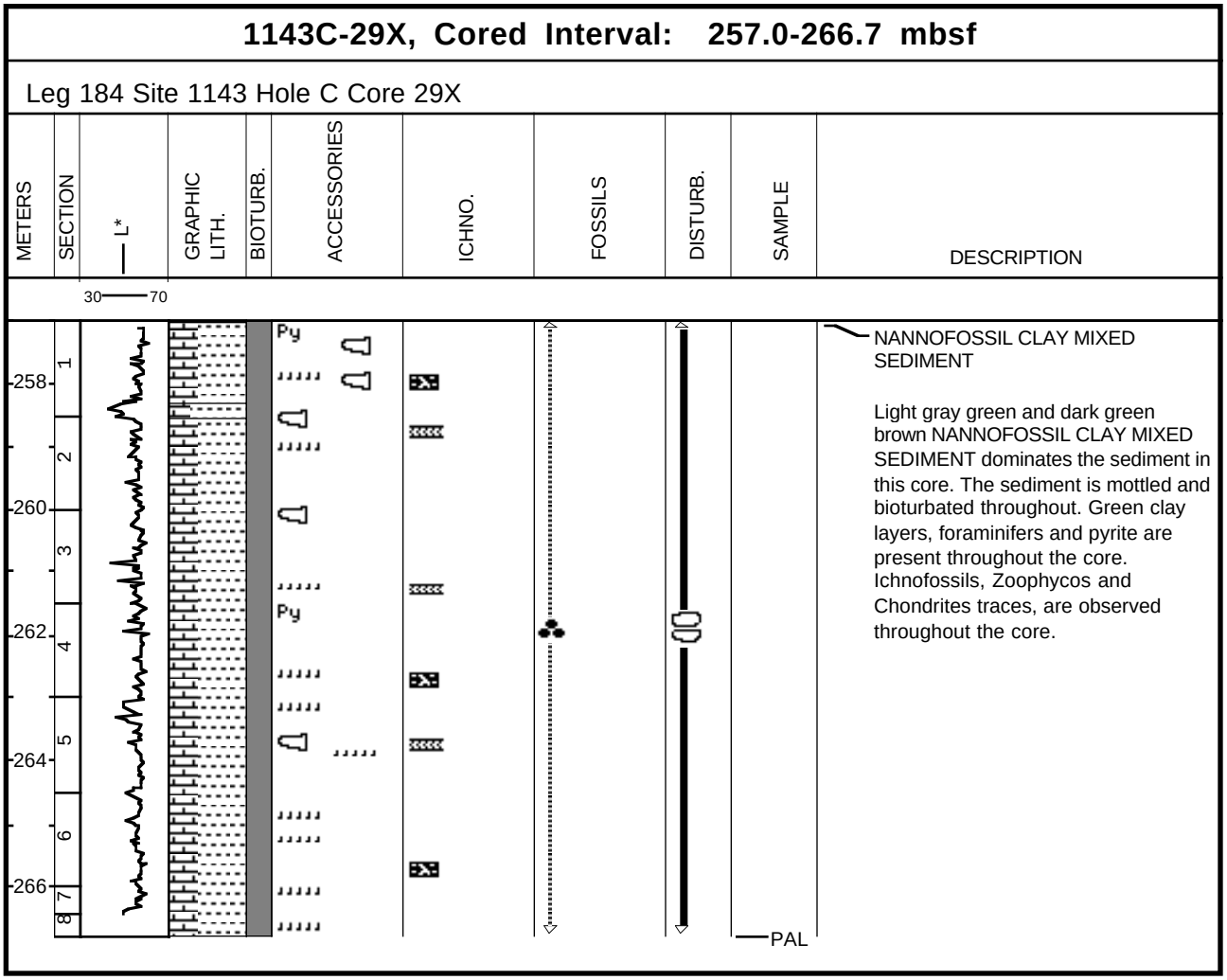
Core Photo


1143C-27X, Cored Interval: 237.7-247.3 mbsf
Leg 184 Site 1143 Hole C Core 27X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
238
240
242
244
246
1
2
3
4
5
6
7
8
Py
PAL
NANNOFOSSIL CLAY MIXED SEDIMENT
Light gray green NANNOFOSSIL CLAY MIXED SEDIMENT dominates the sediment in this core. The sediment is mottled and bioturbated throughout. There is a FORAMINIFER OOZE layer with dark pyrite laminations in Section 2, 112-117 cm. A homogeneous NANNOFOSSIL CLAY layer occurs in Section 5, 17-36 cm.

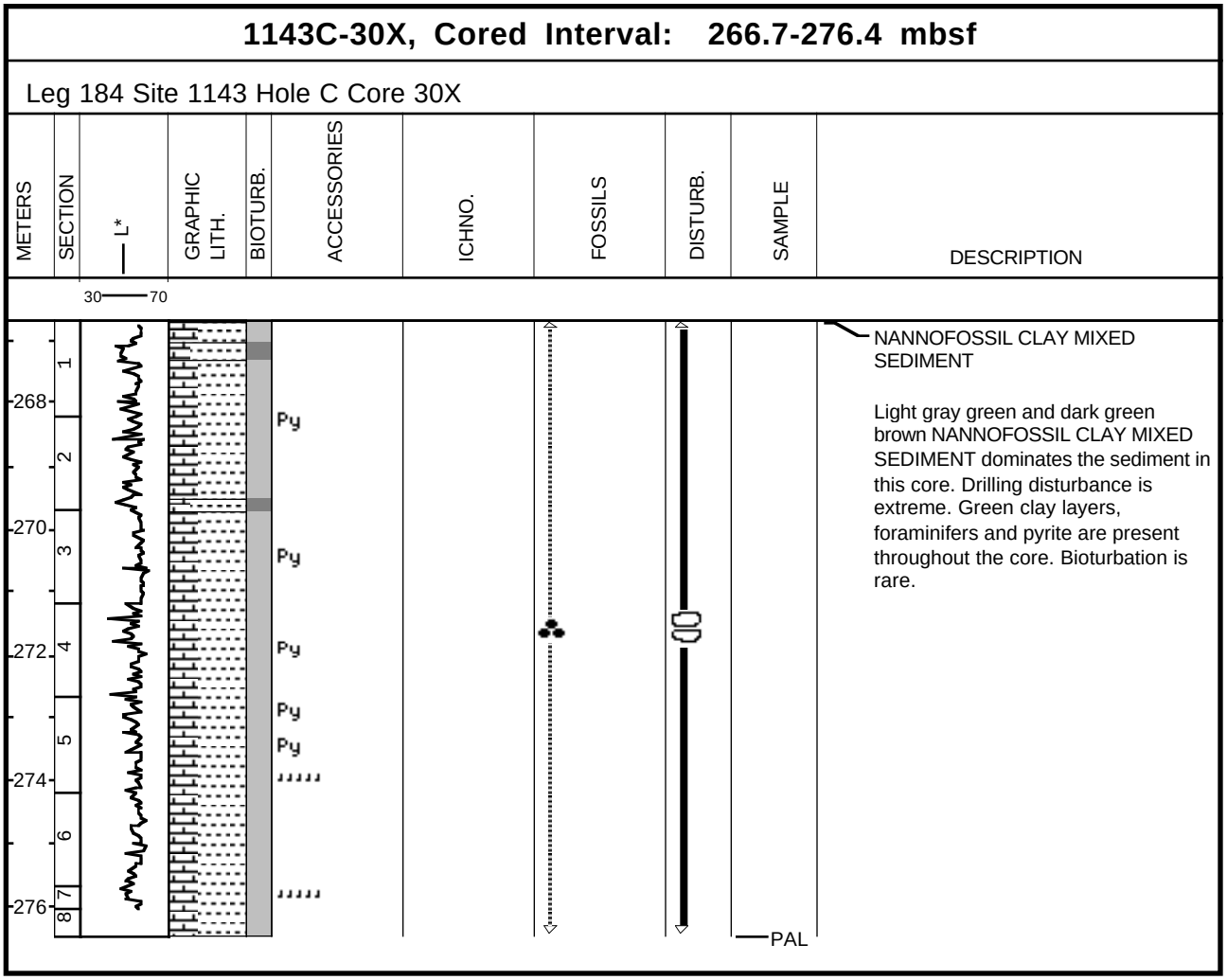
Core Photo


1143C-28X, Cored Interval: 247.3-257.0 mbsf
Leg 184 Site 1143 Hole C Core 28X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
248
250
252
254
256
1
2
3
4
5
6
7
Py
Py
Py
PAL
NANNOFOSSIL CLAY MIXED SEDIMENT
Light gray green and dark green brown NANNOFOSSIL CLAY MIXED SEDIMENT dominates the sediment in this core. The sediment is mottled and bioturbated throughout. There is a FORAMINIFER OOZE layer in Section 4, 30-31 cm. A homogeneous NANNOFOSSIL CLAY layer occurs from Section 3, 128 cm, to Section 4, 30 cm. Green clay layers, foraminifers and pyrite are present throughout the core.

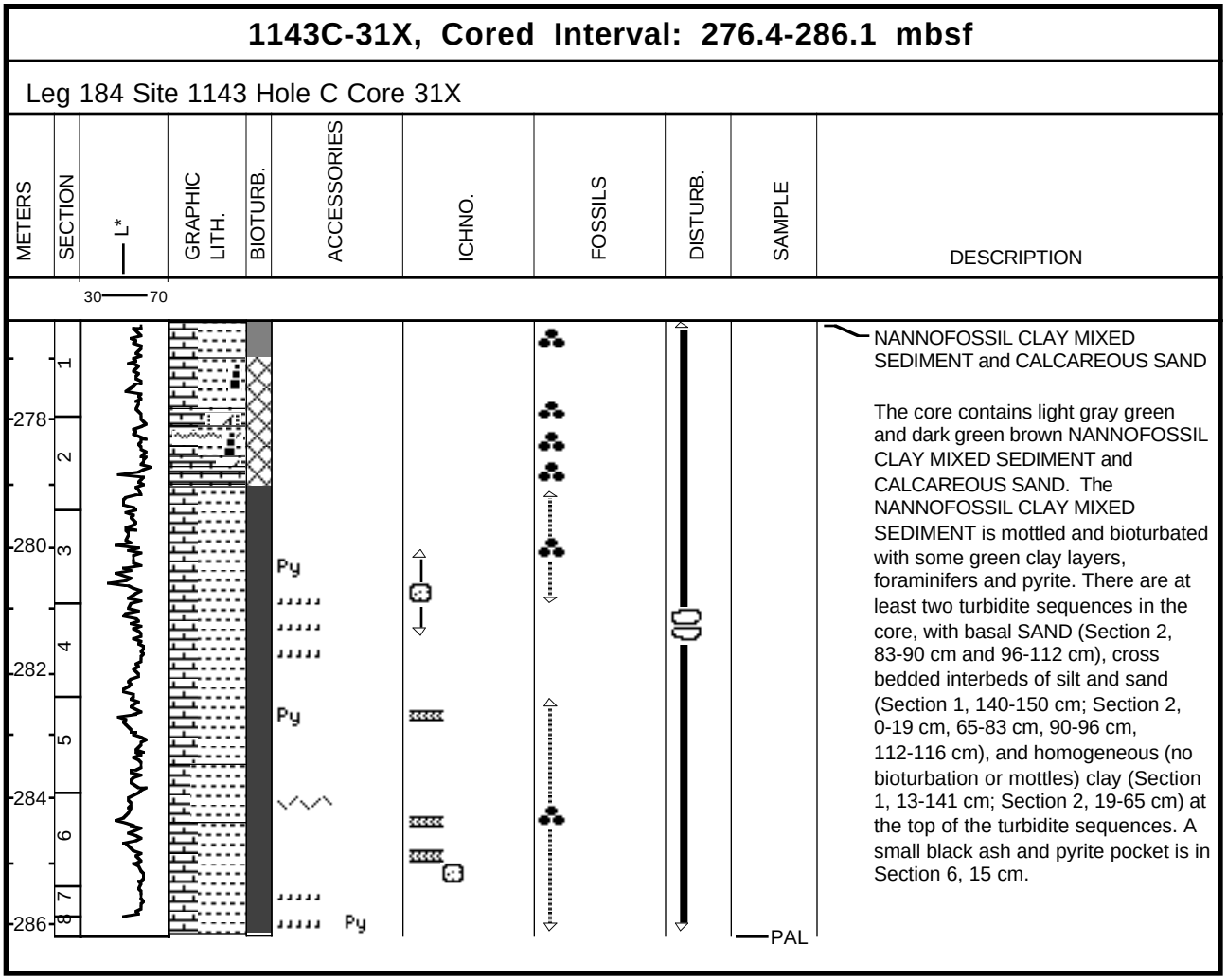
Core Photo


1143C-29X, Cored Interval: 257.0-266.7 mbsf
Leg 184 Site 1143 Hole C Core 29X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
258
260
262
264
266
1
2
3
4
5
6
7
Py
Py
PAL
NANNOFOSSIL CLAY MIXED SEDIMENT
Light gray green and dark green brown NANNOFOSSIL CLAY MIXED SEDIMENT dominates the sediment in this core. The sediment is mottled and bioturbated throughout. Green clay layers, foraminifers and pyrite are present throughout the core. Ichnofossils, Zoophycos and Chondrites traces, are observed throughout the core.

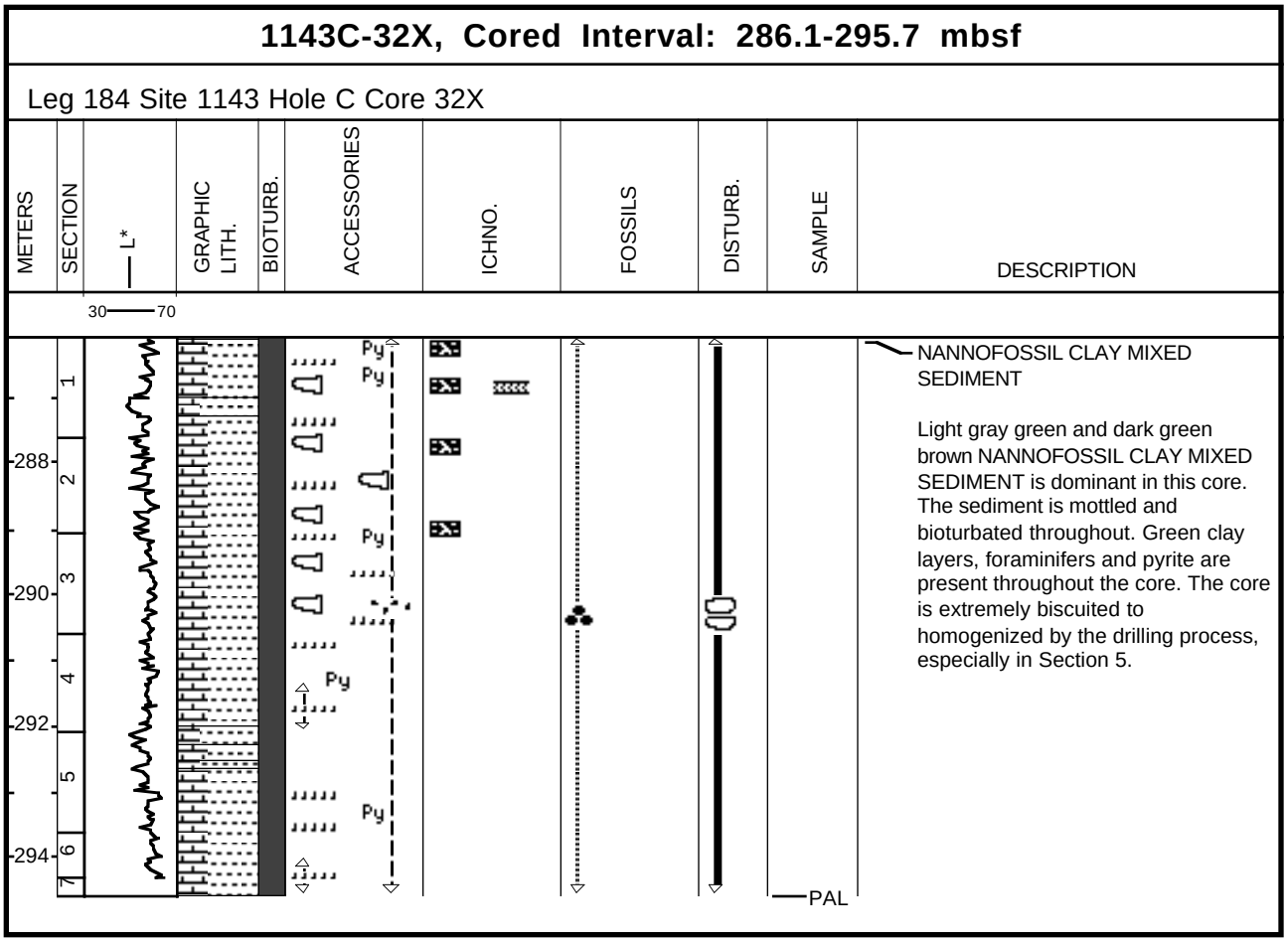
Core Photo


1143C-30X, Cored Interval: 266.7-276.4 mbsf
Leg 184 Site 1143 Hole C Core 30X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
268
270
272
274
276
1
2
3
4
5
6
7
8
Py
Py
Py
Py
Py
PAL
NANNOFOSSIL CLAY MIXED SEDIMENT
Light gray green and dark green brown NANNOFOSSIL CLAY MIXED SEDIMENT dominates the sediment in this core. Drilling disturbance is extreme. Green clay layers, foraminifers and pyrite are present throughout the core. Bioturbation is rare.

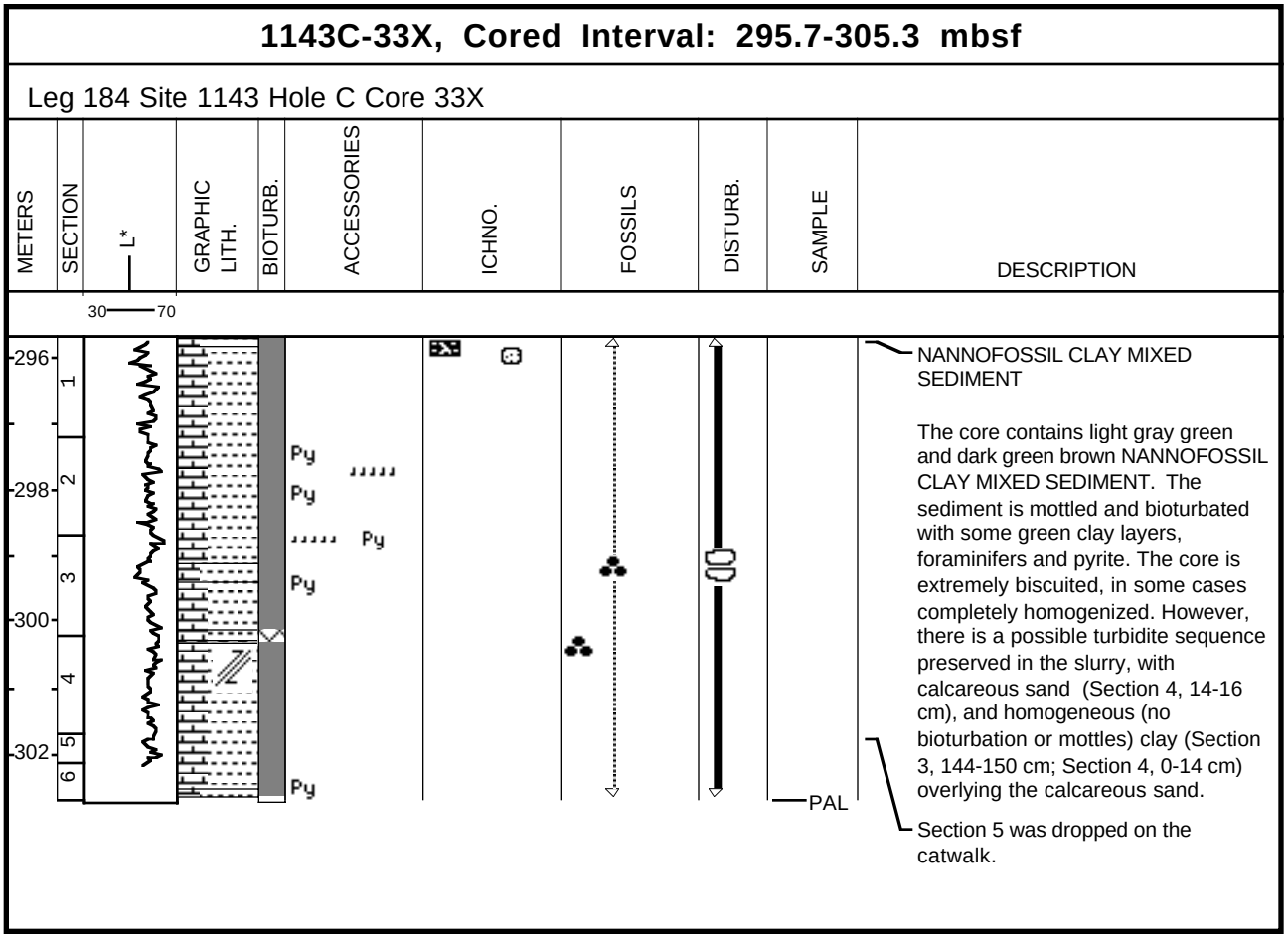
Core Photo


1143C-31X, Cored Interval: 276.4-286.1 mbsf
Leg 184 Site 1143 Hole C Core 31X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
278
280
282
284
286
1
2
3
4
5
6
7
Py
Py
Py
PAL
NANNOFOSSIL CLAY MIXED SEDIMENT and CALCAREOUS SAND
The core contains light gray green and dark green brown NANNOFOSSIL CLAY MIXED SEDIMENT and CALCAREOUS SAND. The NANNOFOSSIL CLAY MIXED SEDIMENT is mottled and bioturbated with some green clay layers, foraminifers and pyrite. There are at least two turbidite sequences in the core, with basal SAND (Section 2, 83-90 cm and 96-112 cm), cross bedded interbeds of silt and sand (Section 1, 140-150 cm; Section 2, 0-19 cm, 65-83 cm, 90-96 cm, 112-116 cm), and homogeneous (no bioturbation or mottles) clay (Section 1, 13-141 cm; Section 2, 19-65 cm) at the top of the turbidite sequences. A small black ash and pyrite pocket is in Section 6, 15 cm.

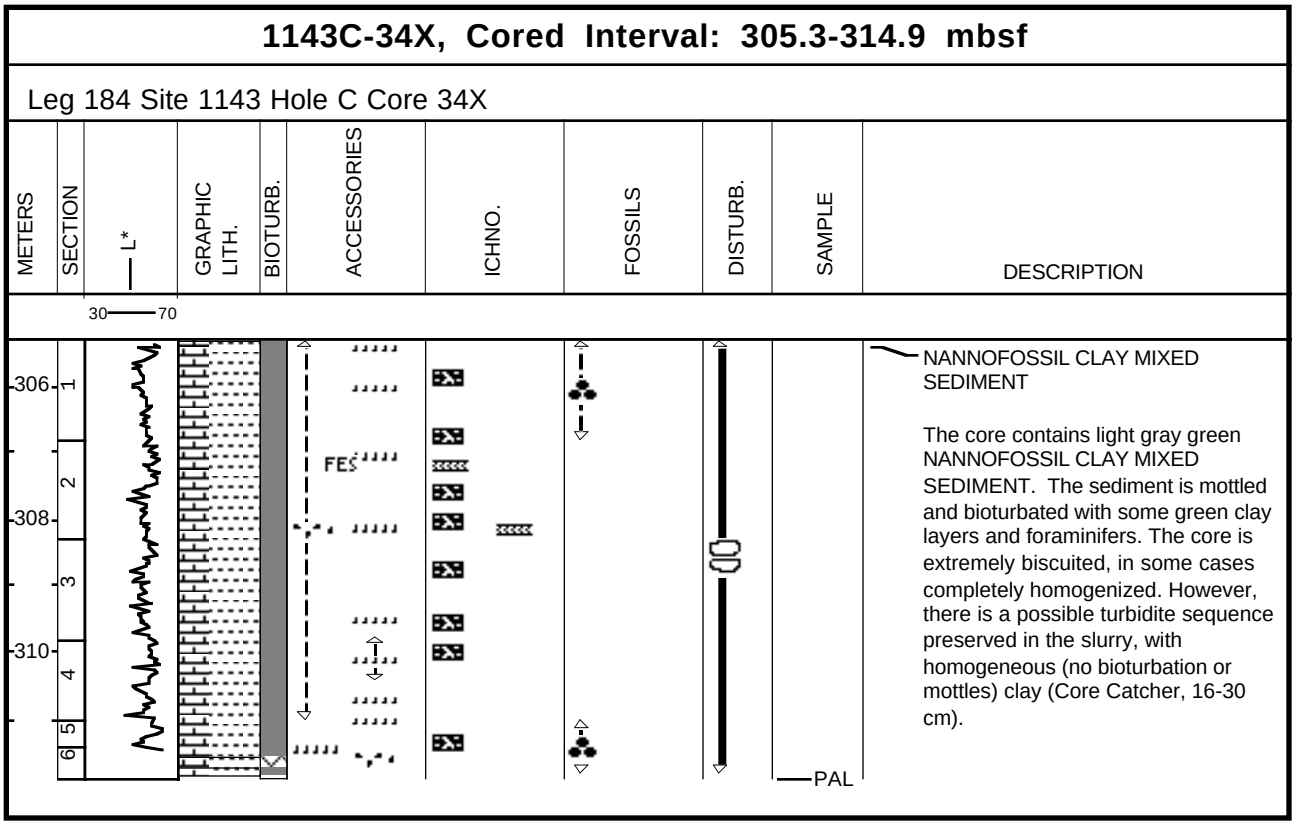
Core Photo


1143C-32X, Cored Interval: 286.1-295.7 mbsf
Leg 184 Site 1143 Hole C Core 32X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
288
290
292
294
1
2
3
4
5
6
7
Py
PAL
NANNOFOSSIL CLAY MIXED SEDIMENT
Light gray green and dark green brown NANNOFOSSIL CLAY MIXED SEDIMENT is dominant in this core. The sediment is mottled and bioturbated throughout. Green clay layers, foraminifers and pyrite are present throughout the core. The core is extremely biscuited to homogenized by the drilling process, especially in Section 5.

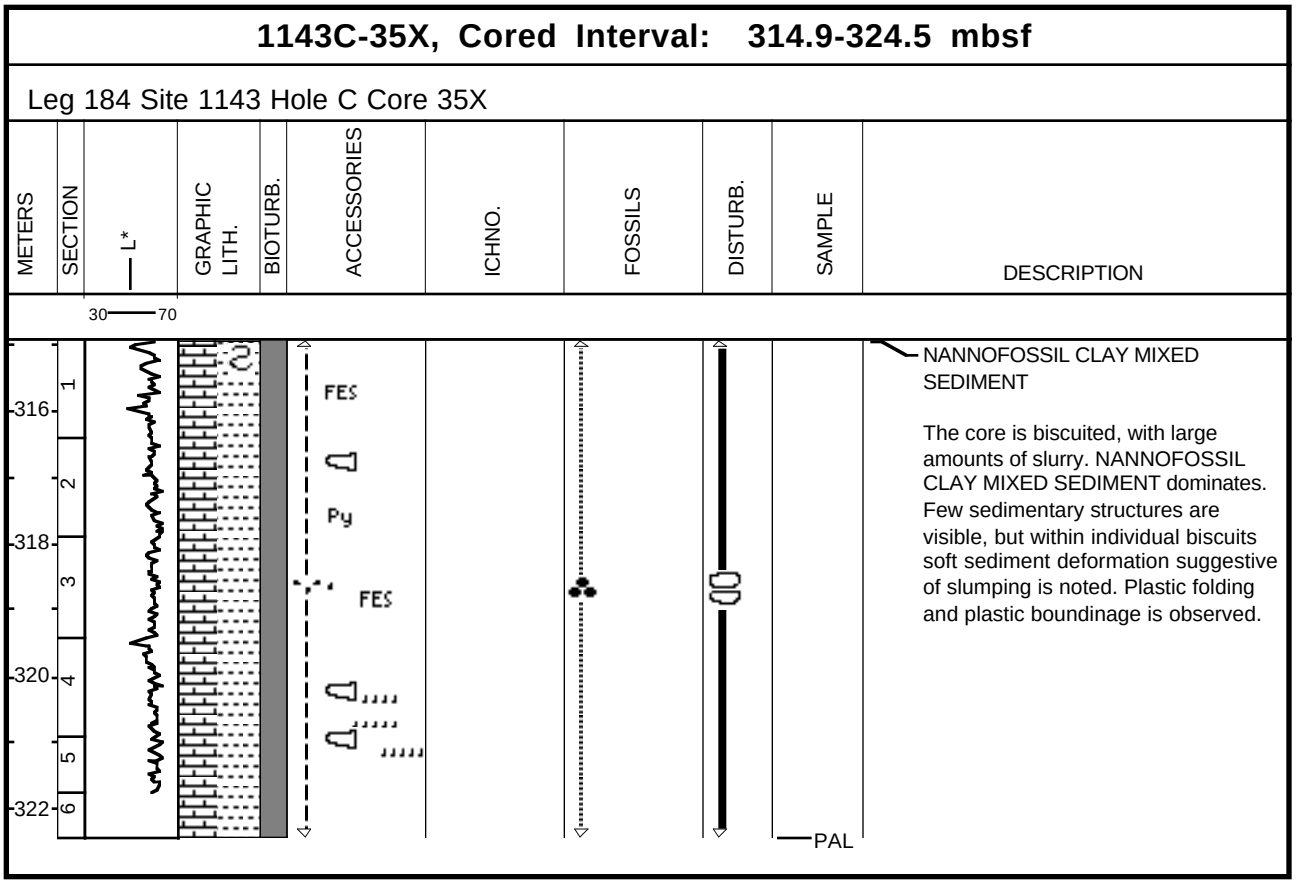
Core Photo


1143C-33X, Cored Interval: 295.7-305.3 mbsf
Leg 184 Site 1143 Hole C Core 33X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
296
298
300
302
1
2
3
4
5
6
Py
Py
Py
Py
Py
PAL
NANNOFOSSIL CLAY MIXED SEDIMENT
The core contains light gray green and dark green brown NANNOFOSSIL CLAY MIXED SEDIMENT. The sediment is mottled and bioturbated with some green clay layers, foraminifers and pyrite. The core is extremely biscuited, in some cases completely homogenized. However, there is a possible turbidite sequence preserved in the slurry, with calcareous sand (Section 4, 14-16 cm), and homogeneous (no bioturbation or mottles) clay (Section 3, 144-150 cm; Section 4, 0-14 cm) overlying the calcareous sand.
Section 5 was dropped on the catwalk.

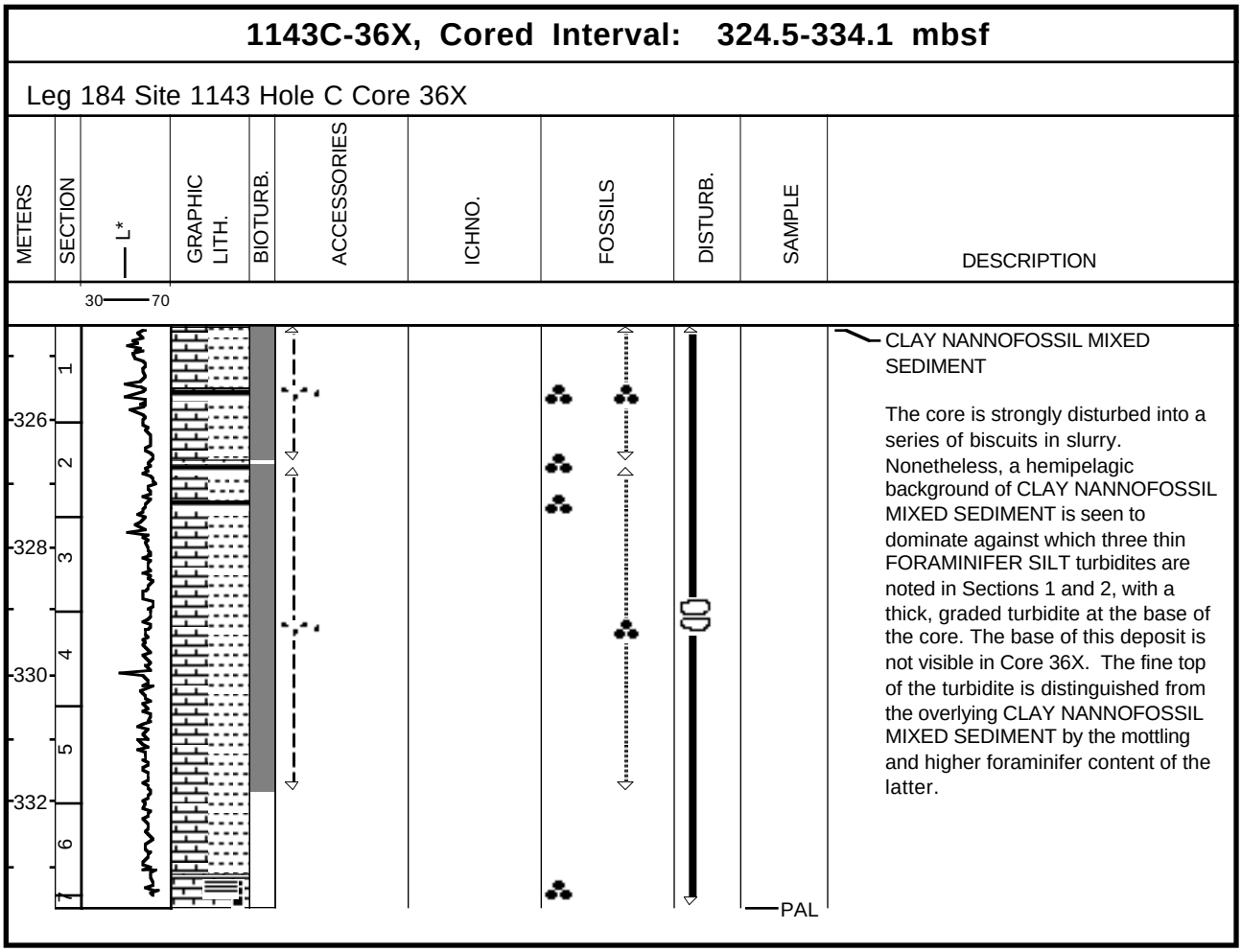
Core Photo


1143C-34X, Cored Interval: 305.3-314.9 mbsf
Leg 184 Site 1143 Hole C Core 34X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
306
308
310
1
2
3
4
5
6
FES
PAL
NANNOFOSSIL CLAY MIXED SEDIMENT
The core contains light gray green NANNOFOSSIL CLAY MIXED SEDIMENT. The sediment is mottled and bioturbated with some green clay layers and foraminifers. The core is extremely biscuited, in some cases completely homogenized. However, there is a possible turbidite sequence preserved in the slurry, with homogeneous (no bioturbation or mottles) clay (Core Catcher, 16-30 cm).

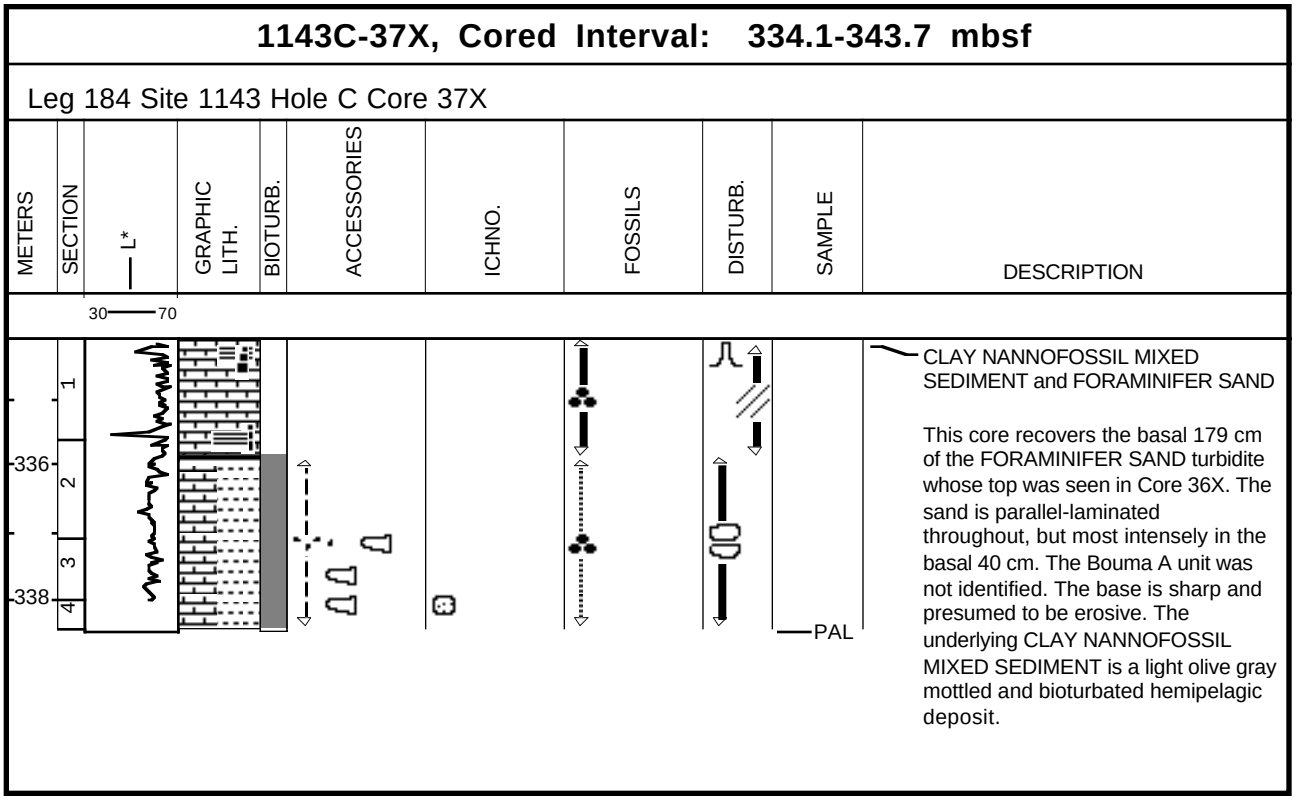
Core Photo


1143C-35X, Cored Interval: 314.9-324.5 mbsf
Leg 184 Site 1143 Hole C Core 35X
METERS
SECTION
L*
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
30
70
316
318
320
322
1
2
3
4
5
6
FES
Py
FES
PAL
NANNOFOSSIL CLAY MIXED SEDIMENT
The core is biscuited, with large amounts of slurry. NANNOFOSSIL CLAY MIXED SEDIMENT dominates. Few sedimentary structures are visible, but within individual biscuits soft sediment deformation suggestive of slumping is noted. Plastic folding and plastic boundinage is observed.

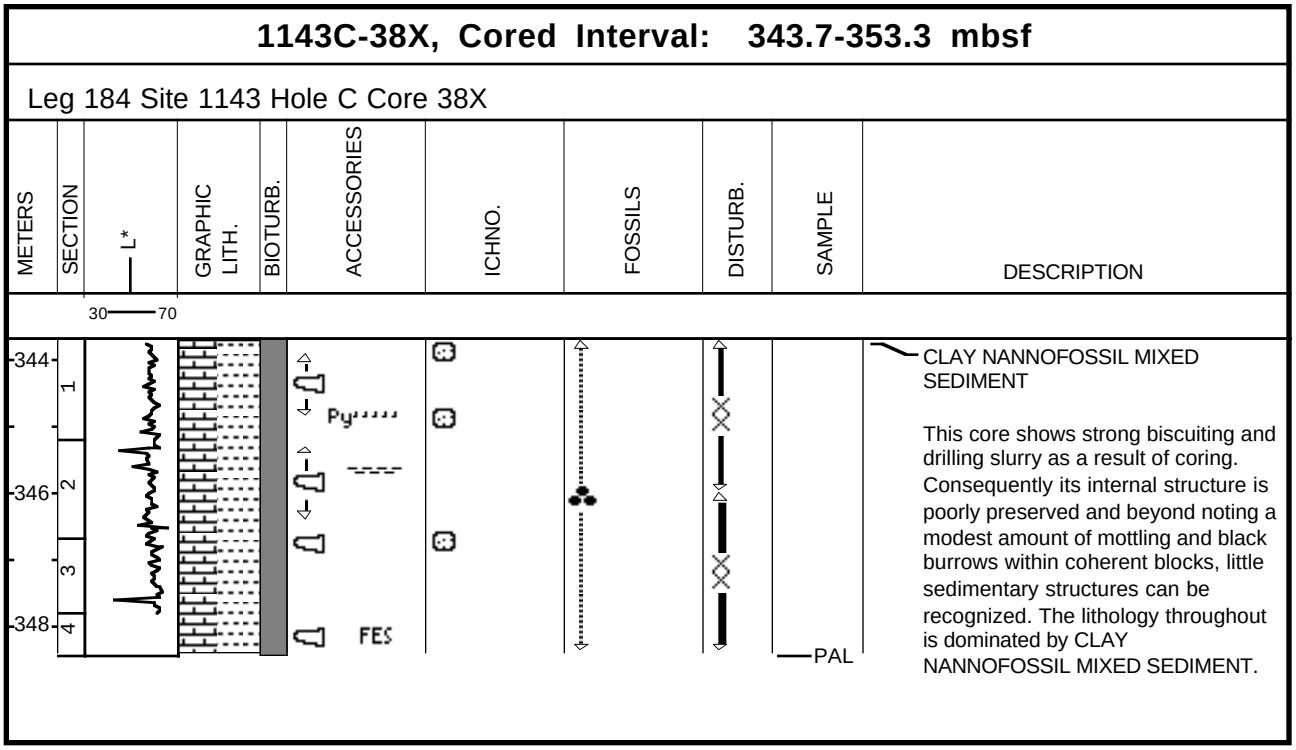
Core Photo


1143C-36X, Cored Interval: 324.5-334.1 mbsf
Leg 184 Site 1143 Hole C Core 36X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
326
328
330
332
1
2
3
4
5
6
PAL
CLAY NANNOFOSSIL MIXED SEDIMENT
The core is strongly disturbed into a series of biscuits in slurry. Nonetheless, a hemipelagic background of CLAY NANNOFOSSIL MIXED SEDIMENT is seen to dominate against which three thin FORAMINIFER SILT turbidites are noted in Sections 1 and 2, with a thick, graded turbidite at the base of the core. The base of this deposit is not visible in Core 36X. The fine top of the turbidite is distinguished from the overlying CLAY NANNOFOSSIL MIXED SEDIMENT by the mottling and higher foraminifer content of the latter.

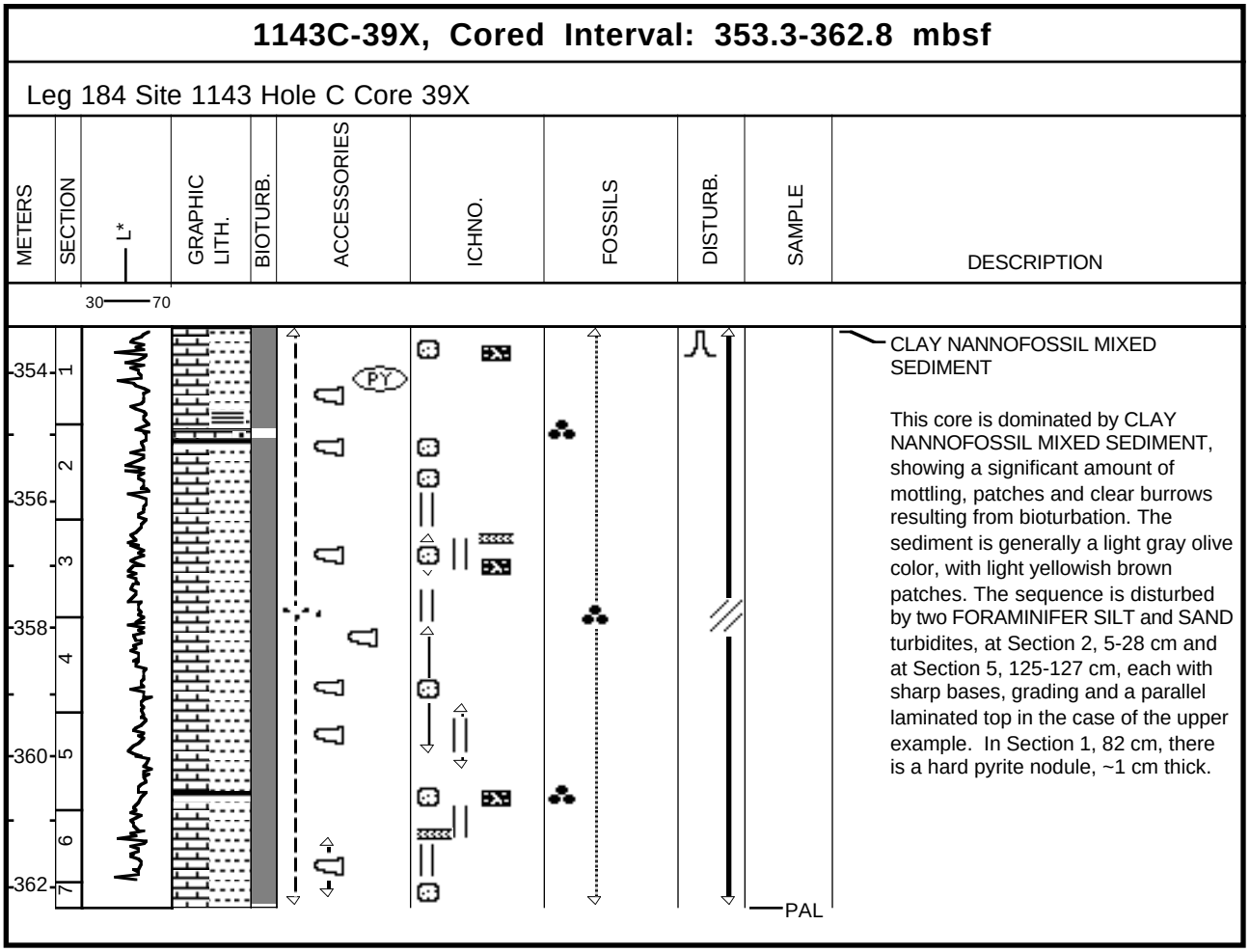
Core Photo


1143C-37X, Cored Interval: 334.1-343.7 mbsf
Leg 184 Site 1143 Hole C Core 37X
METERS
SECTION
L*
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
30
70
336
338
1
2
3
4
PAL
CLAY NANNOFOSSIL MIXED SEDIMENT and FORAMINIFER SAND
This core recovers the basal 179 cm of the FORAMINIFER SAND turbidite whose top was seen in Core 36X. The sand is parallel-laminated throughout, but most intensely in the basal 40 cm. The Bouma A unit was not identified. The base is sharp and presumed to be erosive. The underlying CLAY NANNOFOSSIL MIXED SEDIMENT is a light olive gray mottled and bioturbated hemipelagic deposit.

Core Photo


1143C-38X, Cored Interval: 343.7-353.3 mbsf
Leg 184 Site 1143 Hole C Core 38X
METERS
SECTION
L*
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
30
70
344
346
348
1
2
3
4
Py
FES
PAL
CLAY NANNOFOSSIL MIXED SEDIMENT
This core shows strong biscuiting and drilling slurry as a result of coring. Consequently its internal structure is poorly preserved and beyond noting a modest amount of mottling and black burrows within coherent blocks, little sedimentary structures can be recognized. The lithology throughout is dominated by CLAY NANNOFOSSIL MIXED SEDIMENT.

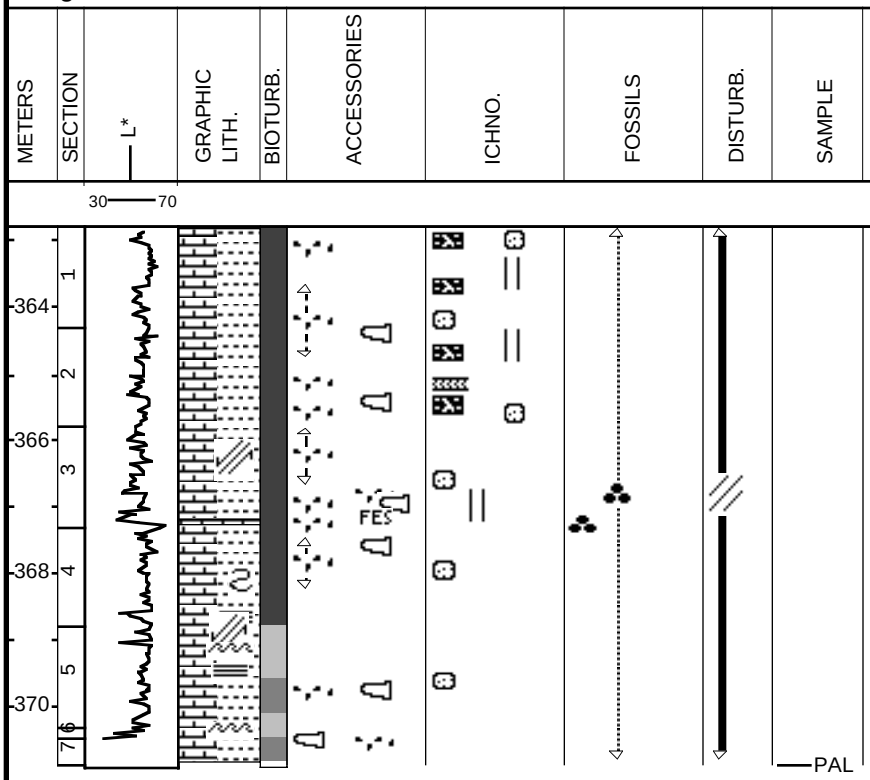
Core Photo


1143C-39X, Cored Interval: 353.3-362.8 mbsf
Leg 184 Site 1143 Hole C Core 39X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
354
356
358
360
362
1
2
3
4
5
6
7
PY
PAL
CLAY NANNOFOSSIL MIXED SEDIMENT
This core is dominated by CLAY NANNOFOSSIL MIXED SEDIMENT, showing a significant amount of mottling, patches and clear burrows resulting from bioturbation. The sediment is generally a light gray olive color, with light yellowish brown patches. The sequence is disturbed by two FORAMINIFER SILT and SAND turbidites, at Section 2, 5-28 cm and at Section 5, 125-127 cm, each with sharp bases, grading and a parallel laminated top in the case of the upper example. In Section 1, 82 cm, there is a hard pyrite nodule, ~1 cm thick.

Core Photo

1143C-40X, Cored Interval: 362.8-372.4 mbsf

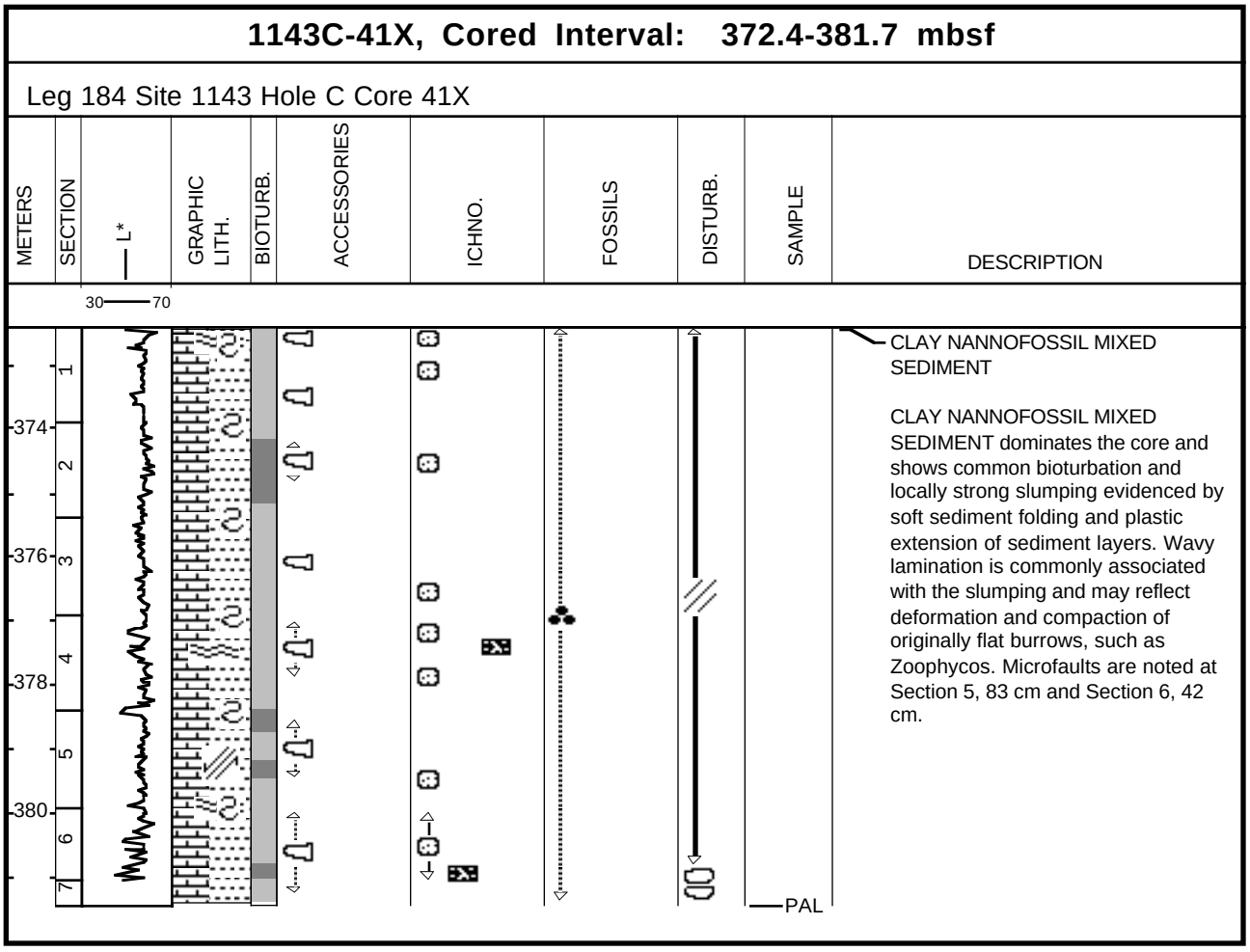
Leg 184 Site 1143 Hole C Core 40X



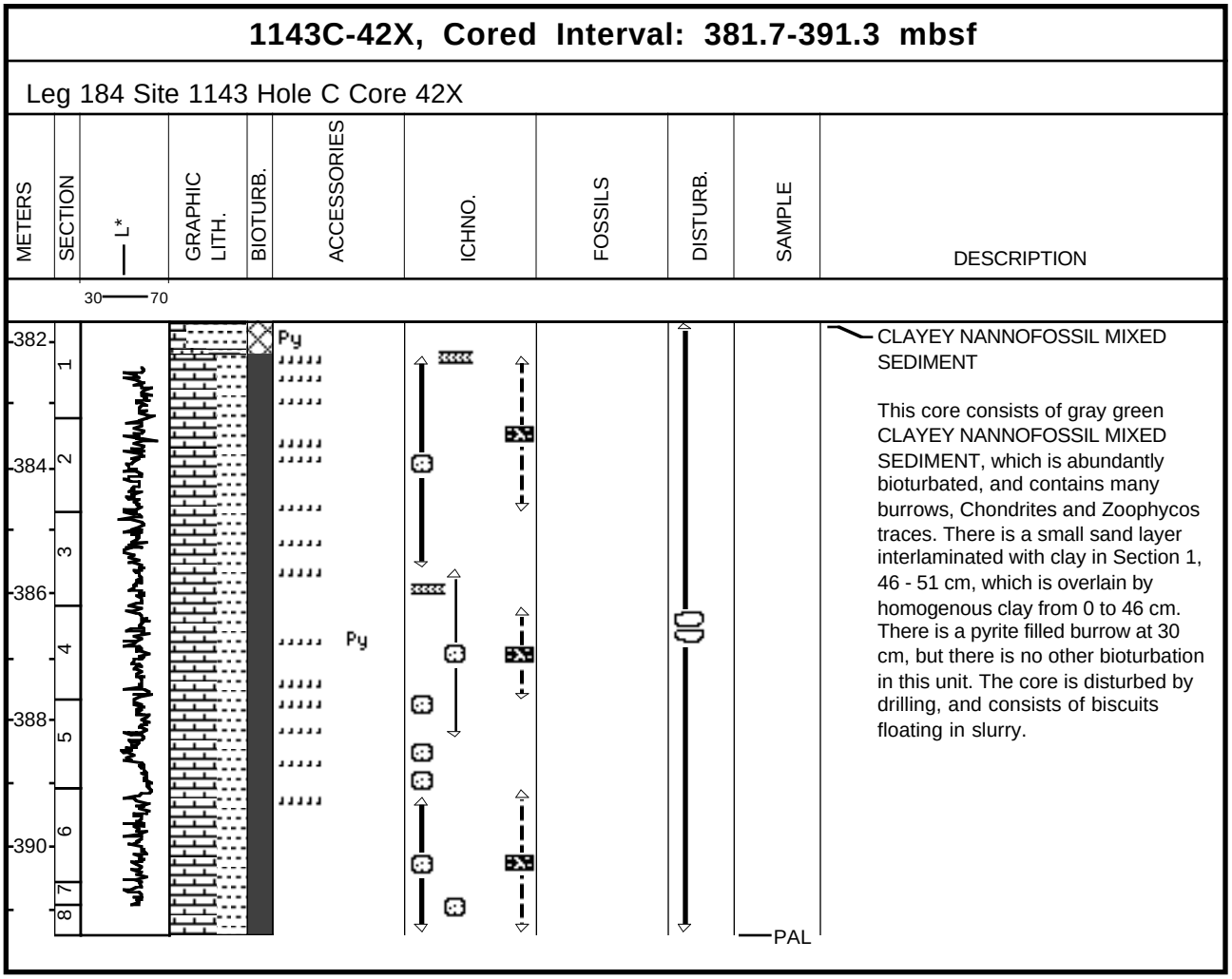
CLAY NANNOFOSSIL MIXED SEDIMENT

Core 40X is dominated by CLAY NANNOFOSSIL MIXED SEDIMENT, which in the upper half, above Section 4, 70 cm is marked by common bioturbation and mottling. Below this level the sediment appears to be laminated and is frequently seen to have suffered soft sediment deformation in the form of plastic folding and the extension of sediment beds, along bedding planes. Sections 6 and Core Catcher have higher levels of drilling disturbance and no features are discernable. A single FORAMINIFER SAND turbidite is noted at Section 3, 143-148 cm. Brittle faulting is seen to cut the section, with slickensides developed on sharply defined fault surfaces. A mild sinistral sense of motion accompanies the dominant dip-slip motion. No mineralization of the fault zones is noted. Faults are noted at Section 3, 46-50 cm, 88-94 cm, 114-119 cm and in Section 5, 5-10 cm.

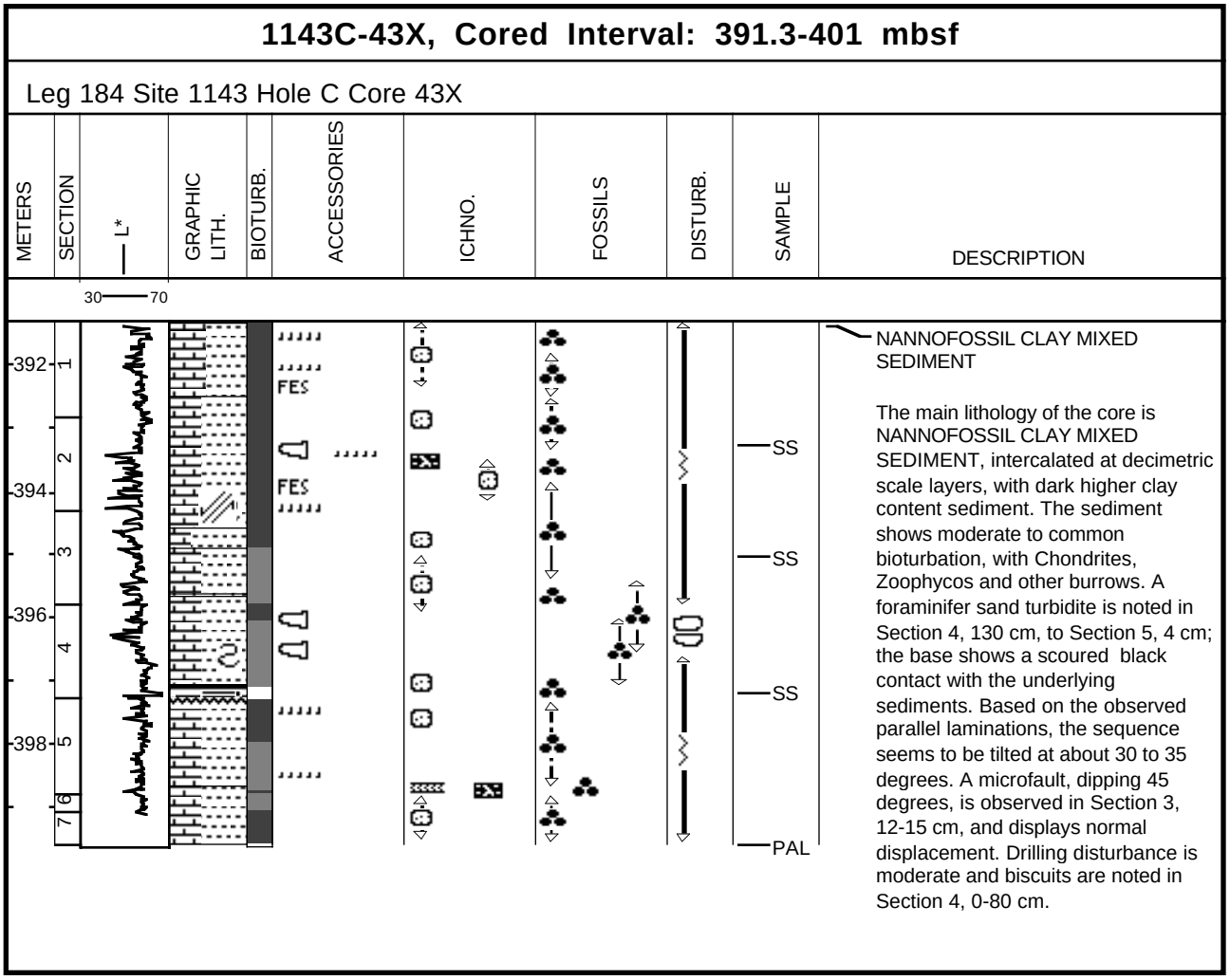
Core Photo


1143C-41X, Cored Interval: 372.4-381.7 mbsf
Leg 184 Site 1143 Hole C Core 41X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
374
376
378
380
1
2
3
4
5
6
7
PAL
CLAY NANNOFOSSIL MIXED SEDIMENT
CLAY NANNOFOSSIL MIXED SEDIMENT dominates the core and shows common bioturbation and locally strong slumping evidenced by soft sediment folding and plastic extension of sediment layers. Wavy lamination is commonly associated with the slumping and may reflect deformation and compaction of originally flat burrows, such as Zoophycos. Microfaults are noted at Section 5, 83 cm and Section 6, 42 cm.

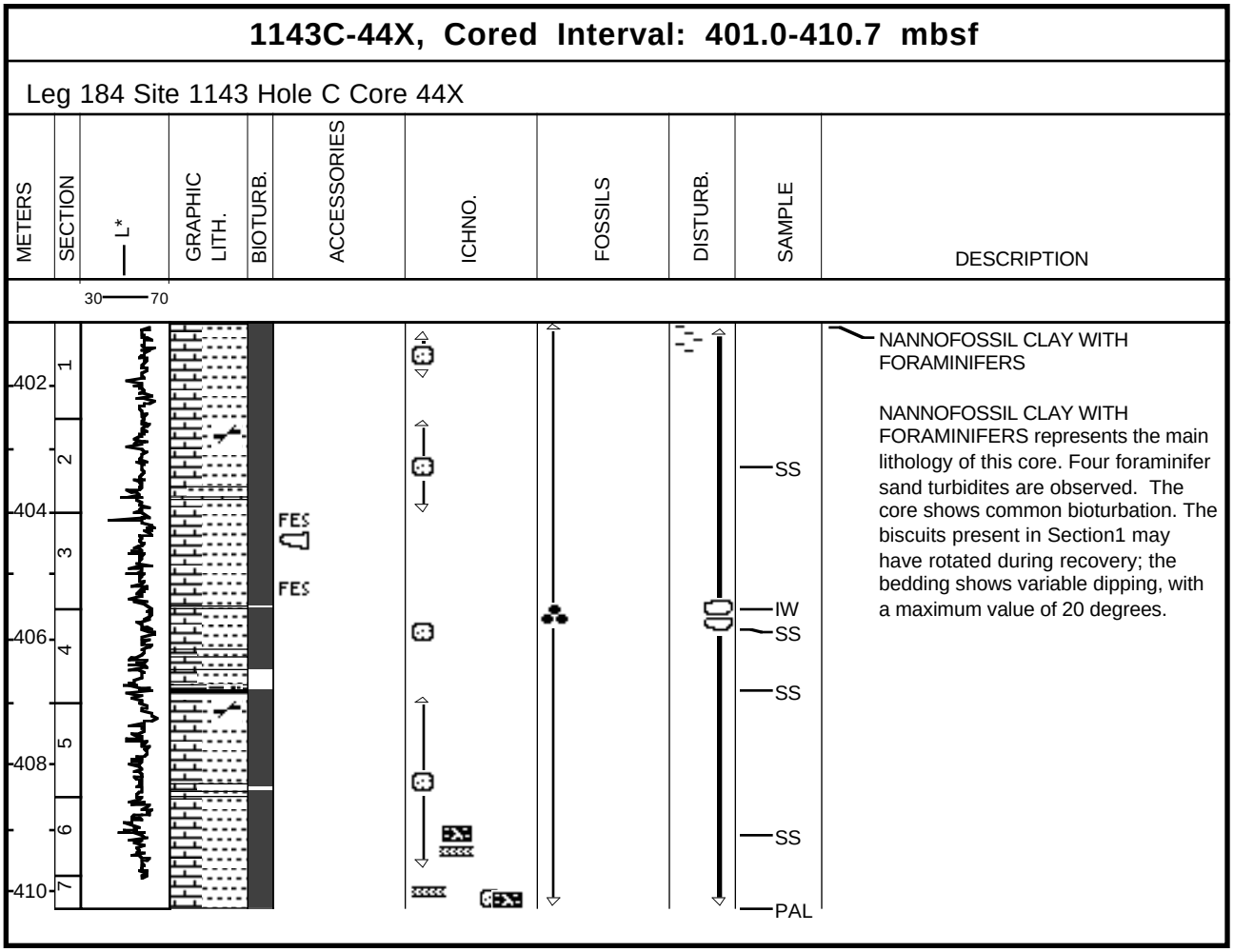
Core Photo


1143C-42X, Cored Interval: 381.7-391.3 mbsf
Leg 184 Site 1143 Hole C Core 42X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
382
384
386
388
390
1
2
3
4
5
6
7
8
Py
Py
PAL
CLAYEY NANNOFOSSIL MIXED SEDIMENT
This core consists of gray green CLAYEY NANNOFOSSIL MIXED SEDIMENT, which is abundantly bioturbated, and contains many burrows, Chondrites and Zoophycos traces. There is a small sand layer interlaminated with clay in Section 1, 46 - 51 cm, which is overlain by homogenous clay from 0 to 46 cm. There is a pyrite filled burrow at 30 cm, but there is no other bioturbation in this unit. The core is disturbed by drilling, and consists of biscuits floating in slurry.

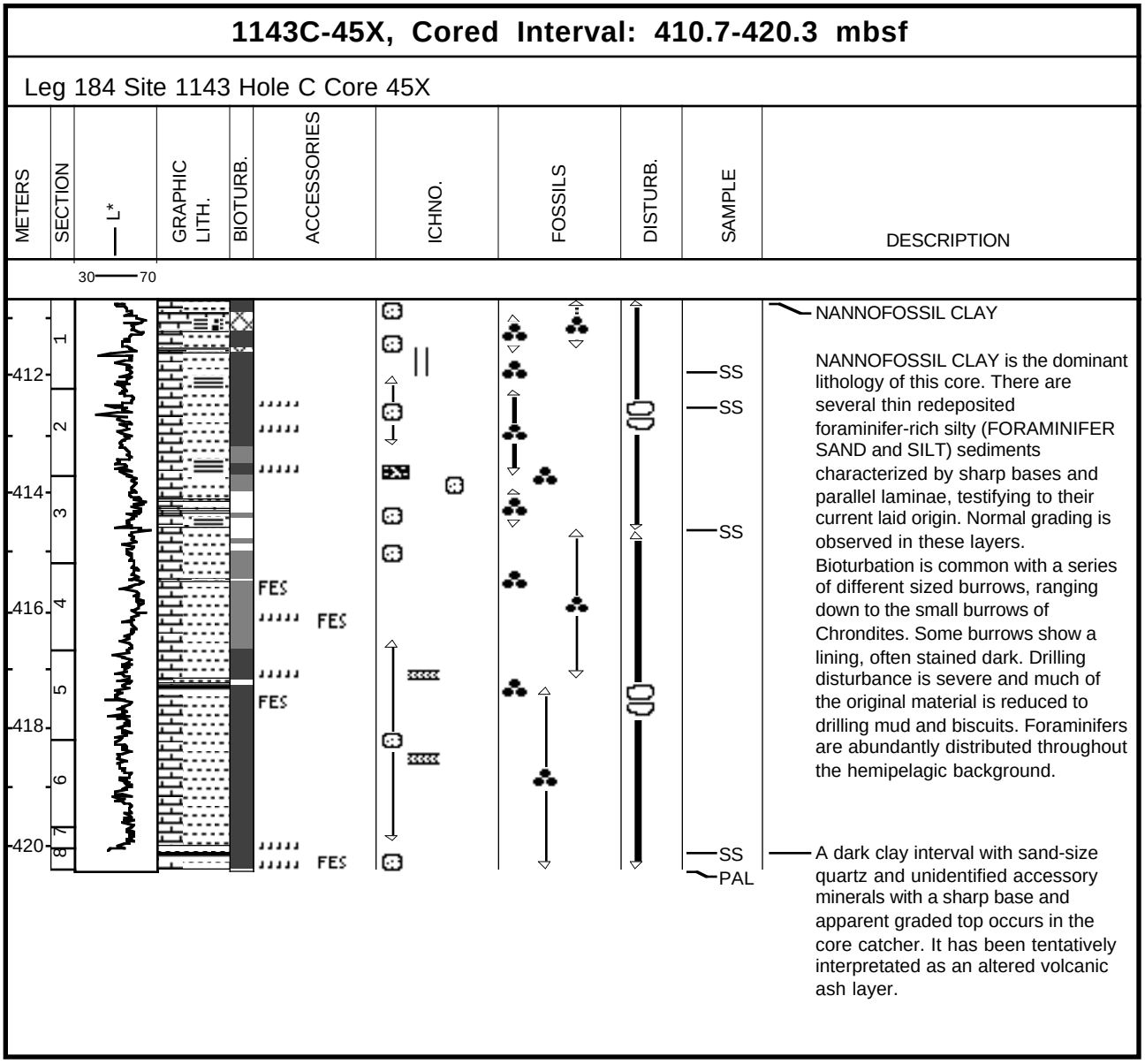
Core Photo


1143C-43X, Cored Interval: 391.3-401 mbsf
Leg 184 Site 1143 Hole C Core 43X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
392
394
396
398
1
2
3
4
5
6
7
FES
FES
SS
SS
SS
PAL
NANNOFOSSIL CLAY MIXED SEDIMENT
The main lithology of the core is NANNOFOSSIL CLAY MIXED SEDIMENT, intercalated at decimetric scale layers, with dark higher clay content sediment. The sediment shows moderate to common bioturbation, with Chondrites, Zoophycos and other burrows. A foraminifer sand turbidite is noted in Section 4, 130 cm, to Section 5, 4 cm; the base shows a scoured black contact with the underlying sediments. Based on the observed parallel laminations, the sequence seems to be tilted at about 30 to 35 degrees. A microfault, dipping 45 degrees, is observed in Section 3, 12-15 cm, and displays normal displacement. Drilling disturbance is moderate and biscuits are noted in Section 4, 0-80 cm.

Core Photo


1143C-44X, Cored Interval: 401.0-410.7 mbsf
Leg 184 Site 1143 Hole C Core 44X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
402
404
406
408
410
1
2
3
4
5
6
7
FES
FES
SS
IW
SS
SS
SS
PAL
NANNOFOSSIL CLAY WITH FORAMINIFERS
NANNOFOSSIL CLAY WITH FORAMINIFERS represents the main lithology of this core. Four foraminifer sand turbidites are observed. The core shows common bioturbation. The biscuits present in Section1 may have rotated during recovery; the bedding shows variable dipping, with a maximum value of 20 degrees.

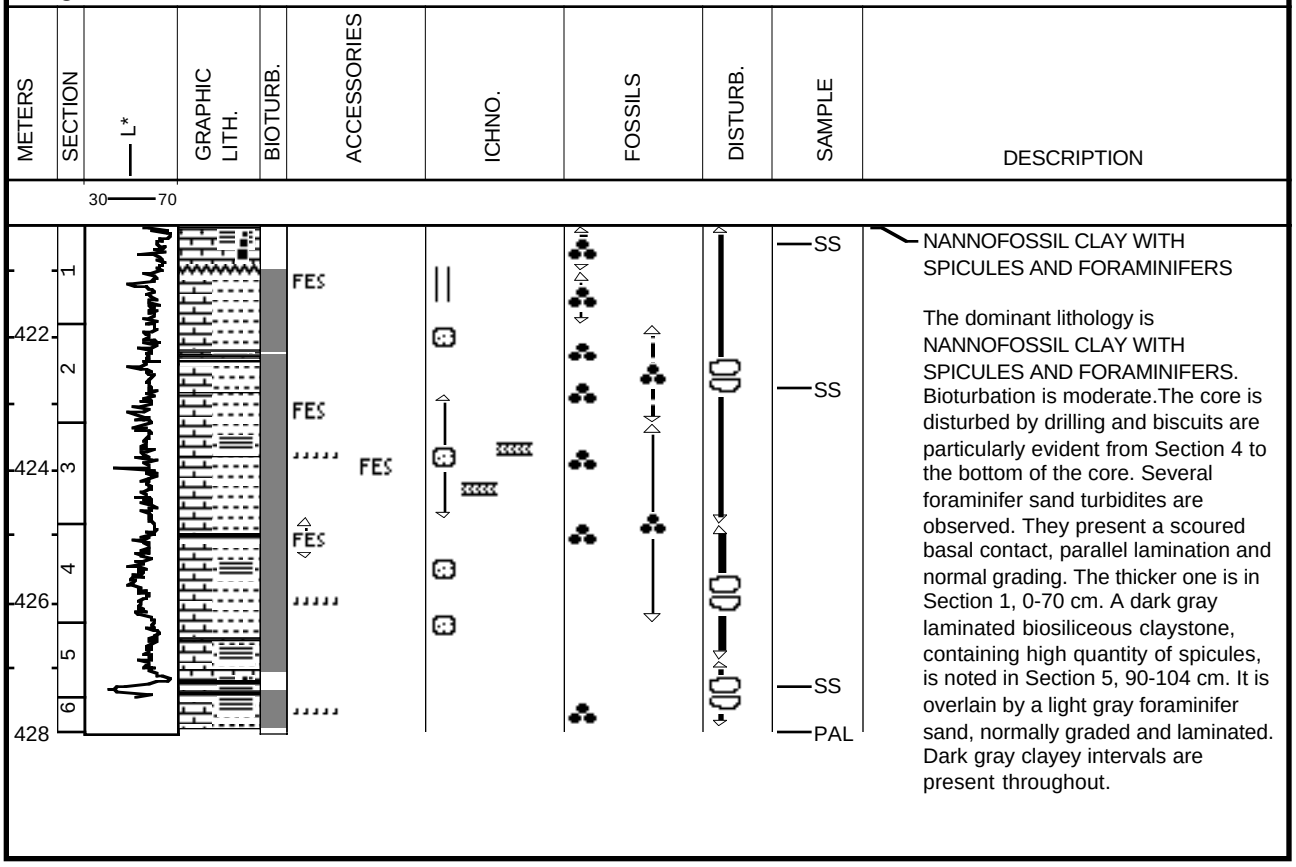
Core Photo


1143C-45X, Cored Interval: 410.7-420.3 mbsf
Leg 184 Site 1143 Hole C Core 45X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
412
414
416
418
420
1
2
3
4
5
6
7
FES
FES
FES
FES
SS
SS
SS
SS
PAL
NANNOFOSSIL CLAY
NANNOFOSSIL CLAY is the dominant lithology of this core. There are several thin redeposited foraminifer-rich silty (FORAMINIFER SAND and SILT) sediments characterized by sharp bases and parallel laminae, testifying to their current laid origin. Normal grading is observed in these layers. Bioturbation is common with a series of different sized burrows, ranging down to the small burrows of Chrondites. Some burrows show a lining, often stained dark. Drilling disturbance is severe and much of the original material is reduced to drilling mud and biscuits. Foraminifers are abundantly distributed throughout the hemipelagic background.
A dark clay interval with sand-size quartz and unidentified accessory minerals with a sharp base and apparent graded top occurs in the core catcher. It has been tentatively interpretated as an altered volcanic ash layer.

Core Photo

1143C-46X, Cored Interval: 420.3-429.9 mbsf

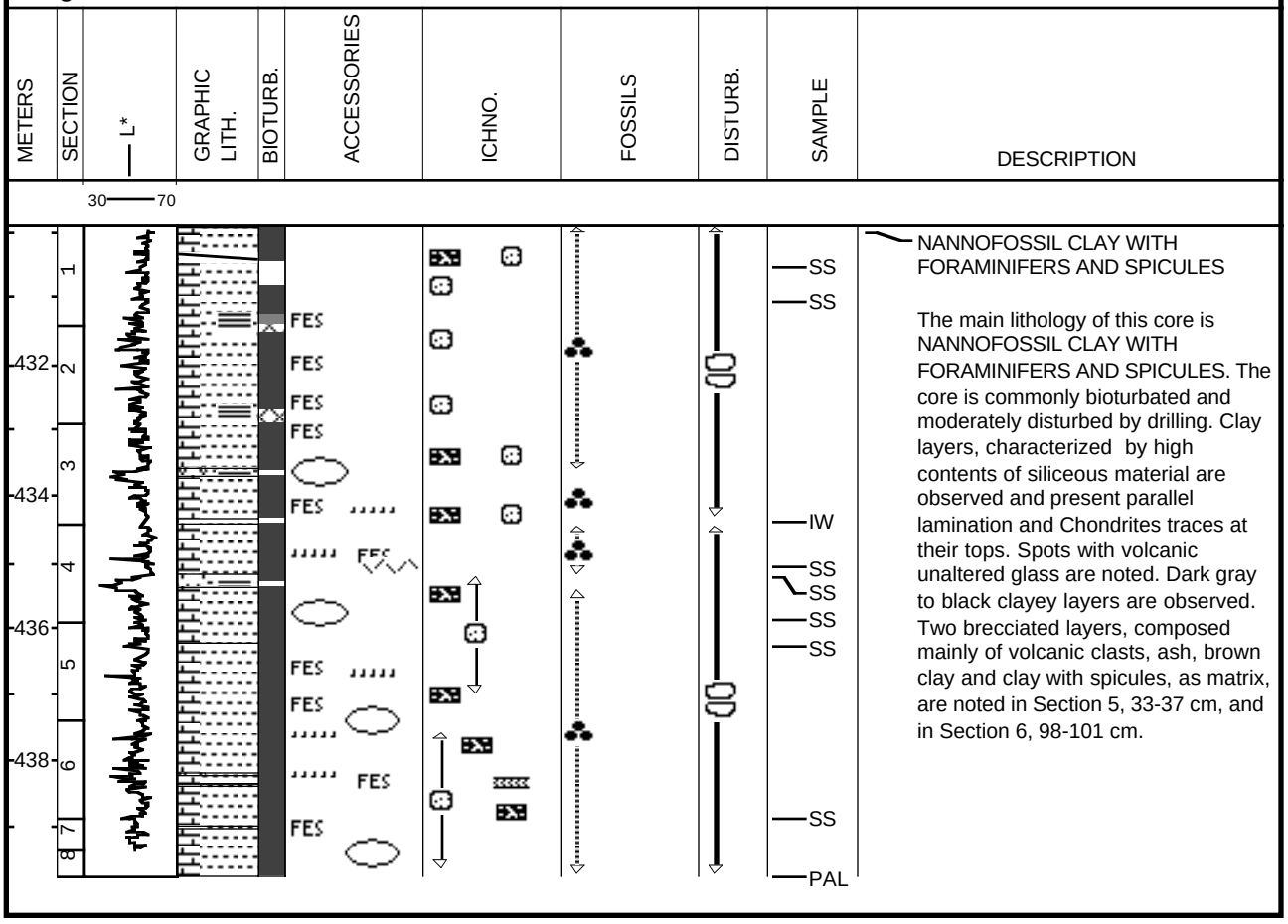
Leg 184 Site 1143 Hole C Core 46X



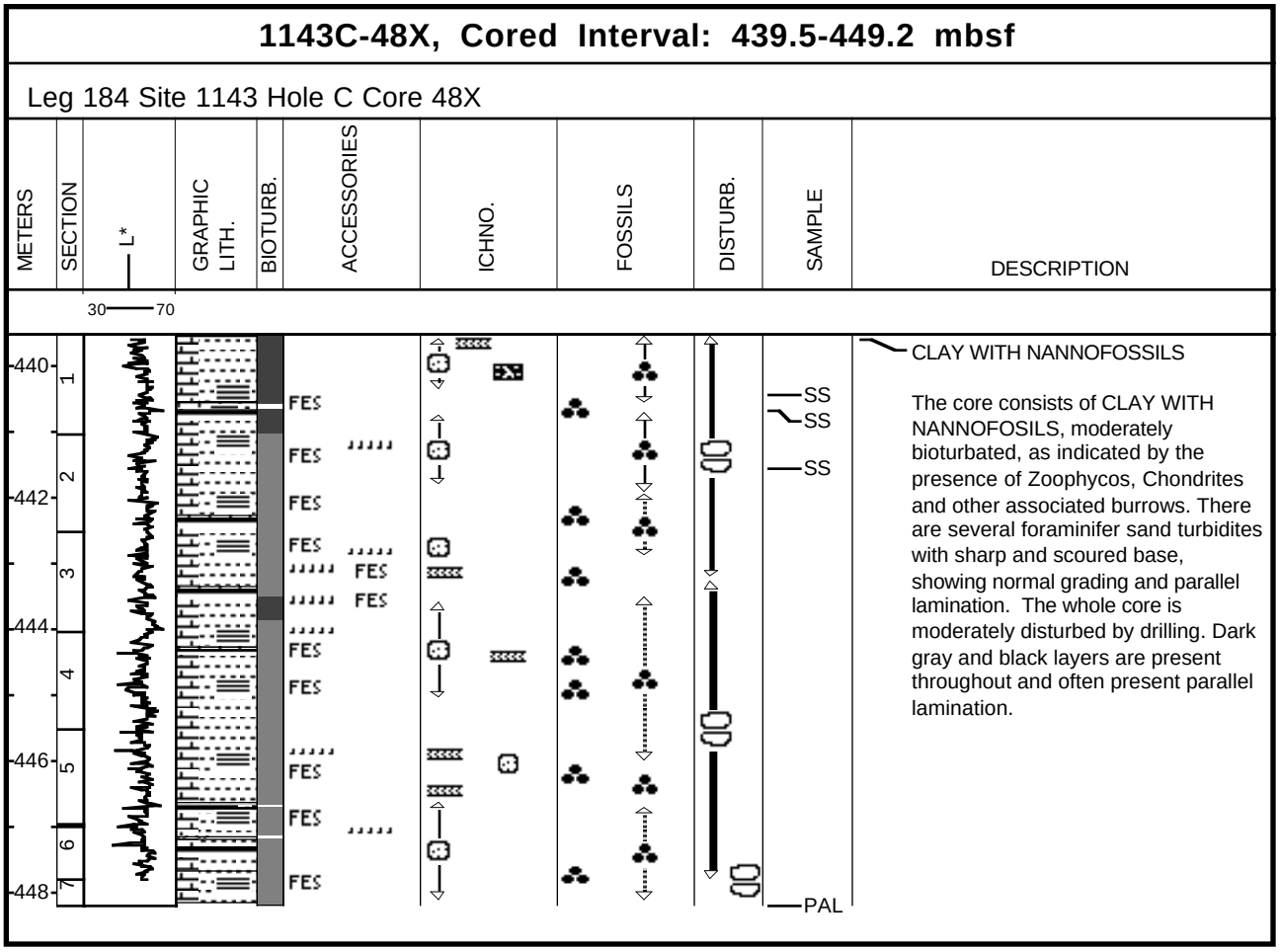
Core Photo

1143C-47X, Cored Interval: 429.9-439.5 mbsf

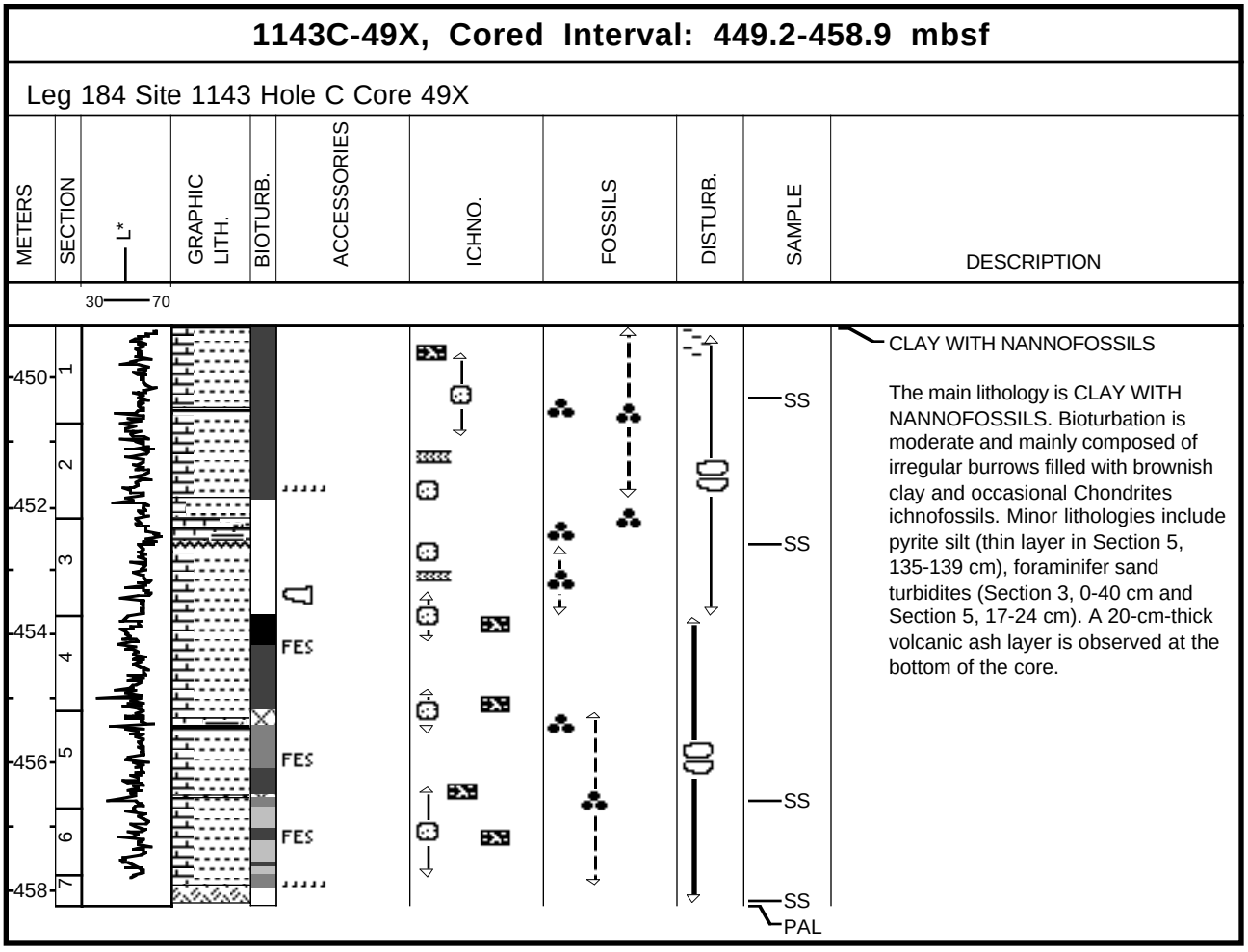
Leg 184 Site 1143 Hole C Core 47X



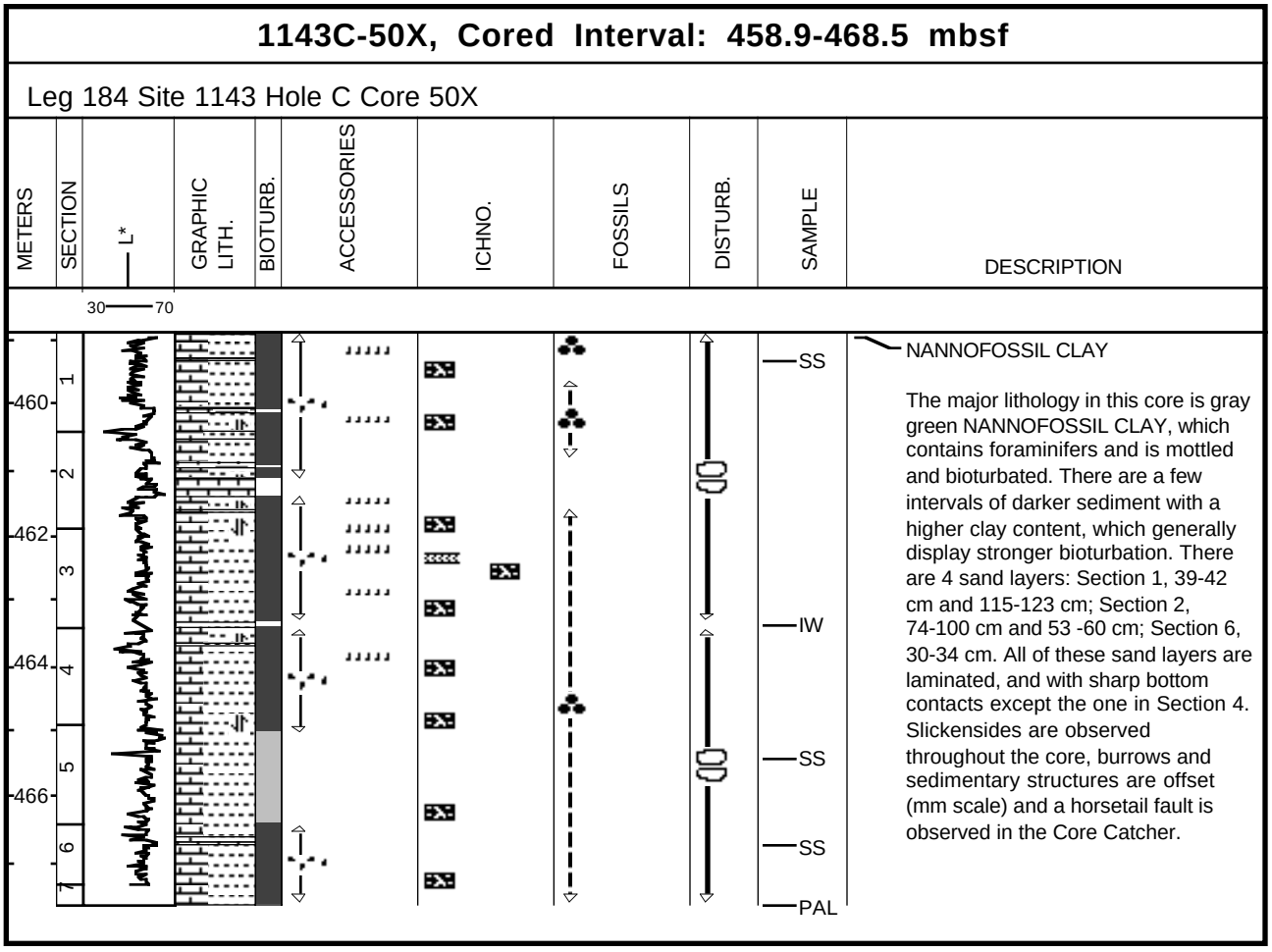
Core Photo


1143C-48X, Cored Interval: 439.5-449.2 mbsf
Leg 184 Site 1143 Hole C Core 48X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
440
442
444
446
448
1
2
3
4
5
6
7
FES
SS
SS
SS
PAL
CLAY WITH NANNOFOSSILS
The core consists of CLAY WITH NANNOFOSILS, moderately bioturbated, as indicated by the presence of Zoophycos, Chondrites and other associated burrows. There are several foraminifer sand turbidites with sharp and scoured base, showing normal grading and parallel lamination. The whole core is moderately disturbed by drilling. Dark gray and black layers are present throughout and often present parallel lamination.

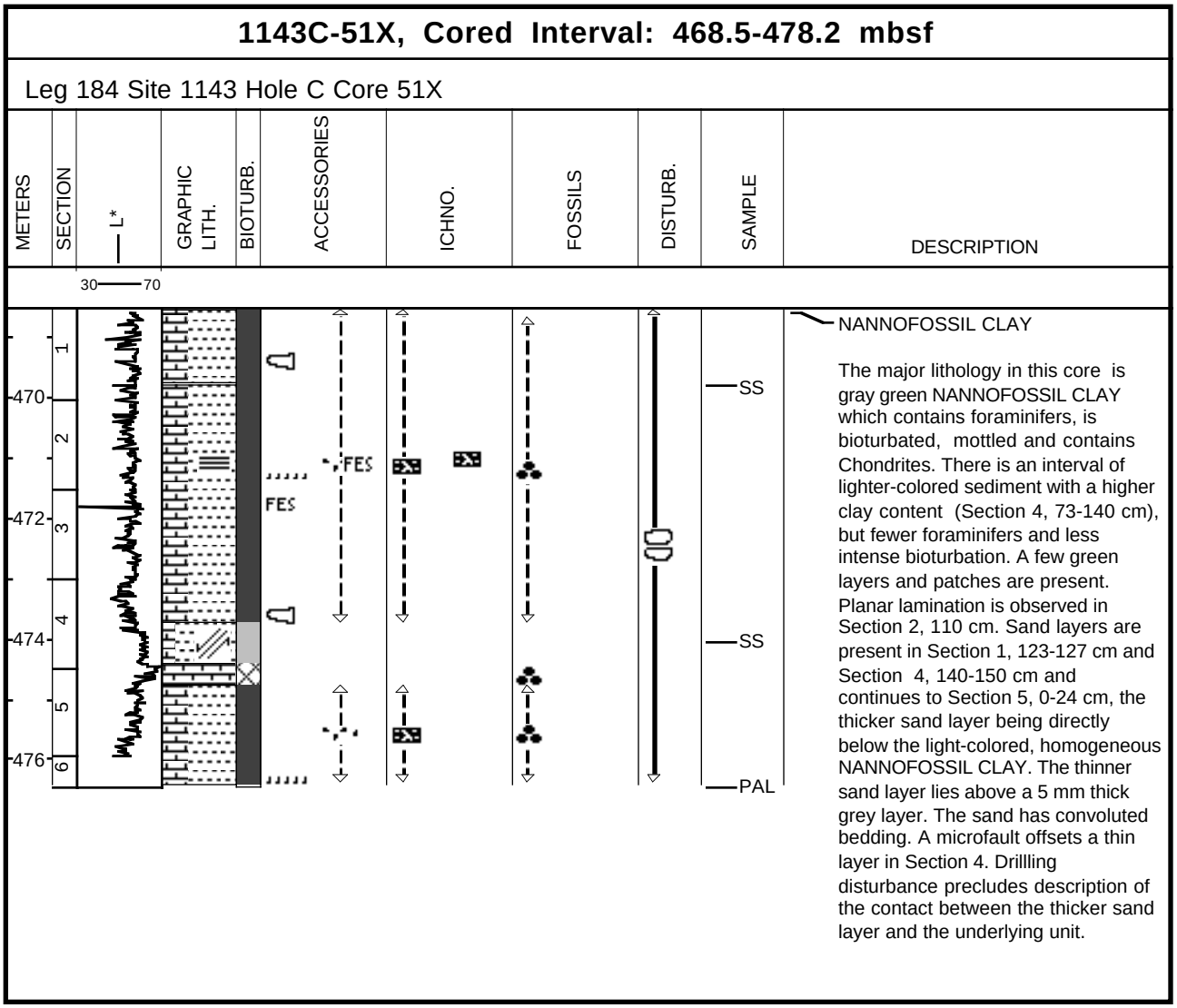
Core Photo


1143C-49X, Cored Interval: 449.2-458.9 mbsf
Leg 184 Site 1143 Hole C Core 49X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
450
452
454
456
458
1
2
3
4
5
6
7
FES
FES
FES
SS
SS
SS
SS
PAL
CLAY WITH NANNOFOSSILS
The main lithology is CLAY WITH NANNOFOSSILS. Bioturbation is moderate and mainly composed of irregular burrows filled with brownish clay and occasional Chondrites ichnofossils. Minor lithologies include pyrite silt (thin layer in Section 5, 135-139 cm), foraminifer sand turbidites (Section 3, 0-40 cm and Section 5, 17-24 cm). A 20-cm-thick volcanic ash layer is observed at the bottom of the core.

Core Photo


1143C-50X, Cored Interval: 458.9-468.5 mbsf
Leg 184 Site 1143 Hole C Core 50X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
460
462
464
466
1
2
3
4
5
6
7
SS
IW
SS
SS
PAL
NANNOFOSSIL CLAY
The major lithology in this core is gray green NANNOFOSSIL CLAY, which contains foraminifers and is mottled and bioturbated. There are a few intervals of darker sediment with a higher clay content, which generally display stronger bioturbation. There are 4 sand layers: Section 1, 39-42 cm and 115-123 cm; Section 2, 74-100 cm and 53 -60 cm; Section 6, 30-34 cm. All of these sand layers are laminated, and with sharp bottom contacts except the one in Section 4. Slickensides are observed throughout the core, burrows and sedimentary structures are offset (mm scale) and a horsetail fault is observed in the Core Catcher.

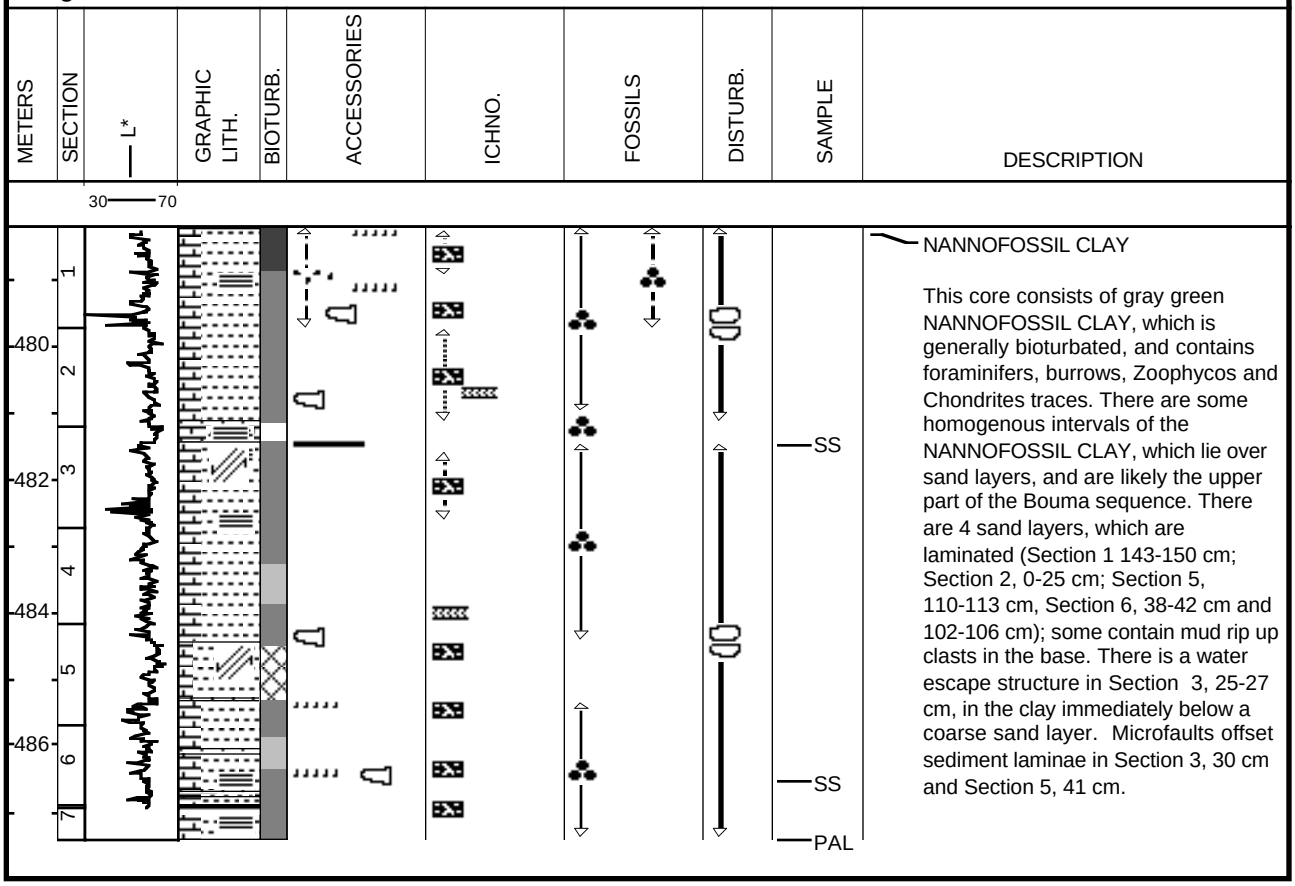
Core Photo


1143C-51X, Cored Interval: 468.5-478.2 mbsf
Leg 184 Site 1143 Hole C Core 51X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
470
472
474
476
1
2
3
4
5
6
FES
FES
SS
SS
PAL
NANNOFOSSIL CLAY
The major lithology in this core is gray green NANNOFOSSIL CLAY which contains foraminifers, is bioturbated, mottled and contains Chondrites. There is an interval of lighter-colored sediment with a higher clay content (Section 4, 73-140 cm), but fewer foraminifers and less intense bioturbation. A few green layers and patches are present. Planar lamination is observed in Section 2, 110 cm. Sand layers are present in Section 1, 123-127 cm and Section 4, 140-150 cm and continues to Section 5, 0-24 cm, the thicker sand layer being directly below the light-colored, homogeneous NANNOFOSSIL CLAY. The thinner sand layer lies above a 5 mm thick grey layer. The sand has convoluted bedding. A microfault offsets a thin layer in Section 4. Drillling disturbance precludes description of the contact between the thicker sand layer and the underlying unit.

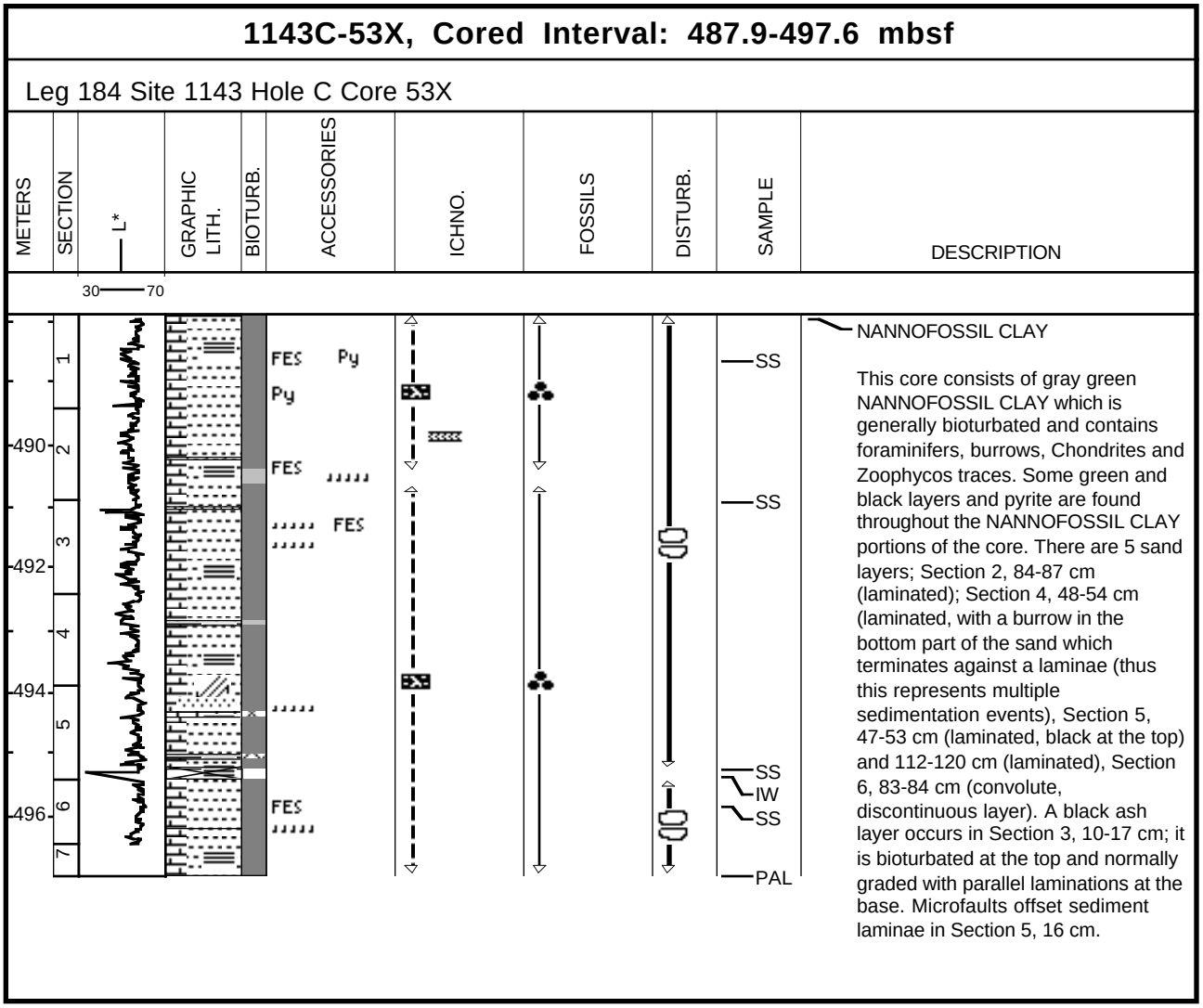
Core Photo

1143C-52X, Cored Interval: 478.2-487.9 mbsf

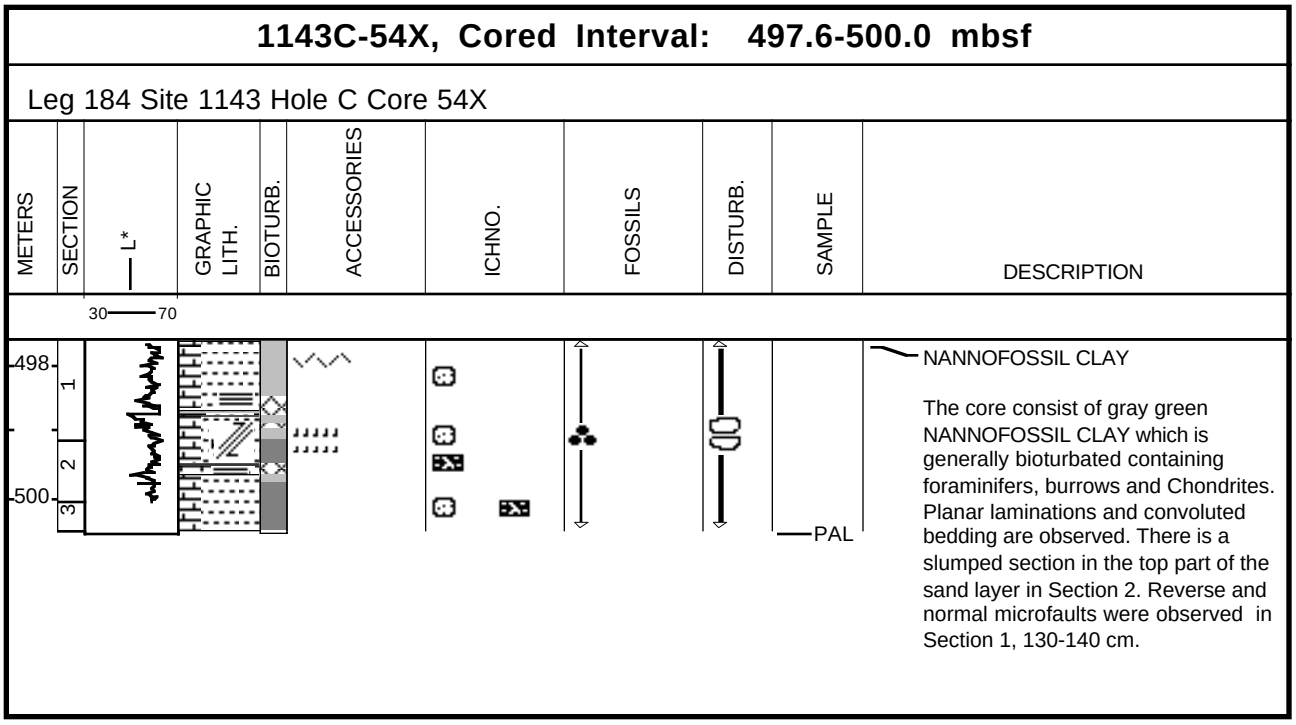
Leg 184 Site 1143 Hole C Core 52X



Core Photo


1143C-53X, Cored Interval: 487.9-497.6 mbsf
Leg 184 Site 1143 Hole C Core 53X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
490
492
494
496
1
2
3
4
5
6
7
FES
Py
Py
FES
FES
FES
SS
SS
SS
IW
SS
PAL
NANNOFOSSIL CLAY
This core consists of gray green NANNOFOSSIL CLAY which is generally bioturbated and contains foraminifers, burrows, Chondrites and Zoophycos traces. Some green and black layers and pyrite are found throughout the NANNOFOSSIL CLAY portions of the core. There are 5 sand layers; Section 2, 84-87 cm (laminated); Section 4, 48-54 cm (laminated, with a burrow in the bottom part of the sand which terminates against a laminae (thus this represents multiple sedimentation events), Section 5, 47-53 cm (laminated, black at the top) and 112-120 cm (laminated), Section 6, 83-84 cm (convolute, discontinuous layer). A black ash layer occurs in Section 3, 10-17 cm; it is bioturbated at the top and normally graded with parallel laminations at the base. Microfaults offset sediment laminae in Section 5, 16 cm.

Core Photo


1143C-54X, Cored Interval: 497.6-500.0 mbsf
Leg 184 Site 1143 Hole C Core 54X
METERS
SECTION
L*
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
30
70
498
500
1
2
3
PAL
NANNOFOSSIL CLAY
The core consist of gray green NANNOFOSSIL CLAY which is generally bioturbated containing foraminifers, burrows and Chondrites. Planar laminations and convoluted bedding are observed. There is a slumped section in the top part of the sand layer in Section 2. Reverse and normal microfaults were observed in Section 1, 130-140 cm.

Sample						Texture			Mineral																				Biogenic														Rock						
Core	Type	Section	Interval Top (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Accessory Minerals (1)	Amphibole (8)	Biotite (22)	Calcite (30)	Chlorite (45)	Clay (47)	Dolomite (62)	Fe Oxide (68)	Feldspar (71)	Glauconite (82)	Manganese (111)	Mica (118)	Muscovite (131)	Opaques (140)	Organic Calcite (141)	Pyrite (169)	Pyroxene (171)	Quartz (172)	Volcanic Glass (81)	Zeolite (222)	Algae (5)	Diatoms (58)	Dinoflagellate (59)	Echinoid (65)	Fish Remains (74)	Foraminifers (78)	Nannofossils (132)	Ostracod (144)	Plant Debris (161)	Pteropod (166)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	Sponge Spicules (199)	Bioclasts (21)	Carbonate Grains (32)	Igneous Rock Fragments (94)	Rock Fragment (177)	Shell Debris (183)	Other (145)	Comments
184-1143A-																																																	
1	H	1	3	0.03	D			100						45																1				2	45				4			3							Clay nannofossil mixed sediment
1	H	1	40	0.40	D	2	3	95						5			1									4								2	85				2		1								Nannofossil ooze
1	H	1	120	1.20	D	10	20	70						35				10		1				1		1								1	50				1										Clayey nannofossil ooze with glauconite
1	H	1	133	1.33	M	20	40	40										85																	15														Glauconite clay with nannofossils
2	H	1	14	3.04	D	2	5	93						40										3		2				1				2	49				1			2							Nannofossil clay mixed sediment
2	H	2	37	4.77	D	2	1	97						94			1							1		1									1				2										Clay
2	H	2	73	5.13	M	5	80	15																	2	3	95																						Volcanic ash
2	H	4	50	7.90	D	15	20	65						35																				15	40							10							clay nannofossil mixed sediment with forams
2	H	5	69	9.59	D	2	10	88						51						2				1		5				1				1	38							1							Nannofossil clay
3	H	1	70	13.10	D		15	85						81																2				5	10							2							Clay with nannofossils
3	H	5	64	19.04	M	2	10	88						73												3	1	1						2	15				3			2							Clay with nannofossils (Burrow fill)
3	H	5	93	19.33	M	3	5	92						40			1	5	3							1									50														Nannofossil clay mixed sediment-Burrow fill?
3	H	5	138	19.78	D	5	5	90						21			1							1		1								1	72				2			1							Nannofossil ooze with clay
3	H	6	96	20.86	D	5	3	92						2			1							2		1				2				2	88				2										Nannofossil ooze
4	H	1	10	22.00	D	2	3	95				2		20										2						1					68				5			2							Nannofossil ooze with clay
4	H	1	118	23.08	D	2	3	95				1		5										1						2					89				2										Nannofossil ooze
4	H	2	12	23.52	D	30	20	50				1		3			1							2		1				1				29	55				5			2							Foraminifer nannofossil ooze
4	H	4	60	27.00	D	2	3	95				2		5										1											90							2							Nannofossil ooze
4	H	6	58	29.98	M		10	90						84												1								3	10							2							Clay with nannofossils
4	H	7	12	31.02	D	7	5	88				1		30										49											20														Pyrite mud with clay and nannofossils
5	H	1	100	32.40	D	10	20	70						68																2				15	3				10			1					1		Clay with forams + radiolaria
5	H	2	120	34.10	D	3	5	92				2		2																1				1	93							1							Nannofossil ooze
5	H	3	105	35.45	M	65	25	10				5		10										3										67	15														Foram sand with nannos and clay
5	H	4	100	36.90	D	5	4	91				2		1																1				4	91							1							Nannofossil ooze
5	H	6	122	40.12	M	35	60	5						1												5	94																						Volcanic ash
6	H	2	42	42.82	D	30	20	50						42										1			1			5				30	20							1							Foraminifer clay with nannofossils
6	H	2	79	43.19	M	80	15	5				3		2																				92	1							2							Foraminifer sand
6	H	2	95	43.35	D	3	5	92						7										1						1					84		1					1					5		Nannofossil ooze
6	H	4	9	45.49	M	80	20																				15			1				64								20							Foraminifer sand with spicules and glass
6	H	5	7	46.97	D	3	8	89				2		9			1									1				1				3	80		1					1					1		Nannofossil ooze
6	H	5	8	46.98	D	3	5	92						3																				5	90							2							Nannofossil ooze
7	H	1	86	51.26	D	8	2	90						37						1														10	50							2							Clay-nanno mixed sediment
7	H	3	11	53.51	M	2	15	83						33												2								5	60														
7	H	5	58	56.98	M	1	40	59						22						1		35				5	1							5	30							1							
7	H	6	99	58.89	D		10	90						30												10								2	58														

Sample						Texture			Mineral																				Biogenic														Rock						
Core	Type	Section	Interval Top (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Accessory Minerals (1)	Amphibole (8)	Biotite (22)	Calcite (30)	Chlorite (45)	Clay (47)	Dolomite (62)	Fe Oxide (68)	Feldspar (71)	Glauconite (82)	Manganese (111)	Mica (118)	Muscovite (131)	Opaques (140)	Organic Calcite (141)	Pyrite (169)	Pyroxene (171)	Quartz (172)	Volcanic Glass (81)	Zeolite (222)	Algae (5)	Diatoms (58)	Dinoflagellate (59)	Echinoid (65)	Fish Remains (74)	Foraminifers (78)	Nannofossils (132)	Ostracod (144)	Plant Debris (161)	Pteropod (166)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	Sponge Spicules (199)	Bioclasts (21)	Carbonate Grains (32)	Igneous Rock Fragments (94)	Rock Fragment (177)	Shell Debris (183)	Other (145)	Comments
8	H	1	59	60.49	D		20	80				1		31												5	1							5	55		1					1							Clayish ooze
8	H	5	61	66.56	M		40	60						37			5									10								5	40							3							Nanno silty clay
8	H	6	85	68.30	D		20	80				2		30						1						5							1	5	55							1							Clayish ooze
8	H	7	62	69.57	M		51	49						20			2			2		2				5	31							1	35							2							Mixed volcanic and ooze silt
8	H	CC	3	69.68	M		90	10	2					5			7			2		2			2	2	75							1	1							1							Volcanic silt
9	H	3	22	72.62	M	5	35	60						10				40				10				3	4							1	30				1			1							Glauconitic ooze clay
9	H	3	118	73.58	M	20	60	20	5	2				11			5			5		5				4	62								1														Volcanic ash silt
9	H	4	76	74.66	M		20	80						54						1						5	5							5	30														Nannofossil clay
9	H	6	66	77.56	D		20	80						50								4				3	3							5	35														Nannofossil clay mixed sediment
10	H	1	72	79.62	D	2	30	68						40						2						3								5	50														Clayish ooze
10	H	2	104	81.44	M	30	50	20						10			5			5				10		10	5							40	10			5											Foraminifer and nannofossil silt
10	H	5	74	85.64	D	2	40	58	1					55												1								5	35			2				1							Nannofossil-clay mixed sediment
11	H	1	75	89.15	M	1	19	80						75				4		2				3		5	1							5	5														Clay
11	H	1	78	89.18	D	2	28	70						30						1				2		5	2							10	50														Clayey nannofossil ooze
11	H	2	70	90.60	D	1	20	79		1				33										1		1								4	60														Clayey nannofossil ooze
11	H	4	77.5	93.68	M	0	20	80						75				5				10													10														Clay
11	H	4	80	93.70	D	0	20	80						65												2	1							2	30														Nannofossil clay
12	H	1	75	98.65	D		2	98						84																				1	10												5		Clay with nannofossils
12	H	3	75	101.65	D	1	4	95						79																1				2	15							3							Clay with nannofossils
12	H	5	75	104.65	D	2	3	95						90																2				3	5														Clay
13	H	2	98	109.88	M	15	10	75						55										1										19	25														Nannofossil clay with foraminifers
13	H	2	110	110.00	D	20	40	40						65																				25	5							5							Foraminiferal clay
13	H	3	71	111.11	D		5	95						85										1										3	10												1		Clay with nannofossils
13	H	5	70	114.10	D	10	10	80						43																			1	15	40												1		Clay nannofossil mixed sediment with forams
14	H	1	60	117.50	D	2	10	88						63													1			3			1	10	20							1					1		Clay with nannofossils and foraminfers
14	H	2	60	119.00	D	1	10	89				5		20			1									1				1				1	70												1		Nannofossil ooze with clay
14	H	4	60	122.00	D	5	10	85				3		60										1			1							7	28														Nannofossil clay
14	H	5	60	123.50	D		15	85						83																				1	1													15	Clay with microtektite ?
14	H	7	30	126.20	D	5	8	87				5		7			1							1		1								1	79												5		Nannofossil ooze
15	H	1	82	127.22	D		10	90						75										8						3				4	10														Clay with nannofosils and pyrite
15	H	3	50	129.90	M		2	98						95									3												2														Clay
15	H	5	100	133.40	D		5	95				1		30										1										3	65														Clayey nannofossil ooze
15	H	6	66	134.53	M	15	25	60				15		10										3										5	50												17		Clayey nannofossil ooze with shell debris
16	H	3	119	140.09	D	5	15	80				3		10			1			1				5		1				1				1	72												5		Nannofossil ooze with clay
16	H	4	60	141.00	D	2	15	83				10		10			1							10		1				1					65												2		Nannofossil ooze with clay pyrite & calcite
16	H	5	91	142.81	D	10	20	70						5										10						3				2	60				1					4			15		Nannofossil ooze with pyrite and shell debris
17	H	1	75	146.15	D		20	80				1		35						1						1	2							3	55	1						1							Clayey nannofossil ooze

Sample						Texture			Mineral																				Biogenic														Rock						
Core	Type	Section	Interval Top (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Accessory Minerals (1)	Amphibole (8)	Biotite (22)	Calcite (30)	Chlorite (45)	Clay (47)	Dolomite (62)	Fe Oxide (68)	Feldspar (71)	Glauconite (82)	Manganese (111)	Mica (118)	Muscovite (131)	Opaques (140)	Organic Calcite (141)	Pyrite (169)	Pyroxene (171)	Quartz (172)	Volcanic Glass (81)	Zeolite (222)	Algae (5)	Diatoms (58)	Dinoflagellate (59)	Echinoid (65)	Fish Remains (74)	Foraminifers (78)	Nannofossils (132)	Ostracod (144)	Plant Debris (161)	Pteropod (166)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	Sponge Spicules (199)	Bioclasts (21)	Carbonate Grains (32)	Igneous Rock Fragments (94)	Rock Fragment (177)	Shell Debris (183)	Other (145)	Comments
17	H	4	130	151.20	M		20	80				2		13				5								1	1							1	75							2							Clayey nannofossil ooze
17	H	6	40	153.30	D		20	80				1		16												2								2	78												1		Clayey nannofossil ooze
18	H	1	30	155.20	D	1	20	79				4	2	10				2				4				2	1							2	72							1							Clayey nannofossil ooze
18	H	6	120	163.53	D		15	85				2	2	16						2							2							3	73														Clayey nannofossil ooze
19	H	1	30	164.70	D		20	80						28			1					1												2	65							1					2		Clayey nannofossil ooze
19	H	3	91	168.31	M	5	30	65					3	29			7			3		1				1								5	50							1							Clayey nannofossil ooze
19	H	6	90	172.80	D	1	20	79				1		27						1						1								2	68														Clayey nannofossil ooze
20	H	1	50	174.40	D	1	20	79						29						1														3	61							1							Clayey Nannofossil Ooze
20	H	4	94	179.34	M	10	60	30	1		1		5	20			5					10					40								18														Volcanic Ash
20	H	4	96	179.36	M	10	70	20	3	2	6		5	35			20				2	2				4	6								15														Volcanic Silt
20	H	6	127	182.69	D	4	16	80			1	1		19			1										1							2	75														Clayey Nannofossil Ooze
21	H	1	42	183.82	D	1	15	84						20		2					1					1								1	75														Clayey Nannofossil Ooze
21	H	1	74	184.14	M	0	10	90			1			16												1								1	80													1	Clayey Nannofossil Ooze
21	H	5	41	189.81	M	2	30	68	1		5		2	20								7				2	2							1	60														Clayey Nannofossil Ooze
21	H	5	44	189.84	M	0	10	90						28													2							2	67							1							Clayey Nannofossil Ooze
21	H	5	83	190.23	D	0	12	88						13		1				2						1	1							2	80														Nannofossil Ooze with Clay
22	X	1	60	191.00	D	1	10	89				5		8																1				1	80												5		Nannofossil Ooze
22	X	2	1	191.91	M		15	85						10									1	2										5	82														Nannofossil Ooze with Clay
22	X	2	130	193.20	M	1	8	91						35									2	1			1			1			1	5	53							1							Clayey Nannofossil Ooze
22	X	3	70	194.10	D	5	10	85				5		9			1			1				1		1				1				1	75												5		Nannofossil Ooze
22	X	4	116	196.06	M	2	10	88				5		8			1			1						1				1				1	79				1								2		Nannofossil Ooze
23	X	1	83	198.83	D	2	6	92						25									2			1								5	67														Clayey Nannofossil Ooze
23	X	3	74	201.74	D	2	8	90				3		10																				7	80														Nannofossil Ooze with Clay
23	X	3	108	202.08	M	80	10	10				10		5																				80	5														Foraminifer Ooze with Organic Debris & Clay
24	X	1	55	202.55	D		2	98				2		8																					90														Nannofossil Ooze
24	X	1	110	203.10	M	35	20	45				5		15				1						1		1				1				35	30												11		Foram/nanno mixed sand with clay and shell de
24	X	3	80	205.80	D		3	97						10										1			1						1	1	86														Nannofossil Ooze with Clay
25	X	1	80	212.40	D		8	92						5									3											8	82												2		Nannofossil Ooze
25	X	2	110	214.20	D	2	10	88						8									5	1						1					80												5		Nannofossil Ooze
25	X	3	20	214.80	D	1	10	89					5	9			1									1									81												3		Nannofossil Ooze
26	X	1	33	221.53	M	50	35	15				5		3						1				1										40	10												40		Framo/debris mixed sand with nannofossils
26	X	1	60	221.80	D	15	10	75			1	5		5			1							1		1				1				1	70												2	12	Nanno ooze
26	X	2	59	223.29	M	40	20	40				7		7										1										35	20												30		Foram/nanno mixed sand with shell debris and
26	X	4	89	226.59	M	60	30	10				1		2												1							1	90	5														Framo ooze
26	X	5	80	228.00	D	1	5	94						15																1				3	79							2							Nannofossil ooze with clay
27	X	1	117	231.97	D		5	95						5													1							2	90							2							Nannofossil chalk
27	X	2	95	233.25	M	20	15	65						5													1			1				35	55							2						1	Foram nannofossil chalk
27	X	3	26	233.56	M	5	7	88				5		8																2				1	75							1					5	3	Nannofossil chalk
27	X	3	57	233.87	D	1	10	89				5		13			1									1				1				1	75							2					1		Nannofossil chalk
28	X	1	70	241.10	D	2	5	93						15										1								1	1	3	68				1			10							Nannofossil Chalk with Clay & Spicules
28	X	3	99	244.39	D	2	5	93						2			1						2											5	90														Nannofossil Chalk

Sample						Texture			Mineral																				Biogenic														Rock							
Core	Type	Section	Interval Top (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Accessory Minerals (1)	Amphibole (8)	Biotite (22)	Calcite (30)	Chlorite (45)	Clay (47)	Dolomite (62)	Fe Oxide (68)	Feldspar (71)	Glauconite (82)	Manganese (111)	Mica (118)	Muscovite (131)	Opaques (140)	Organic Calcite (141)	Pyrite (169)	Pyroxene (171)	Quartz (172)	Volcanic Glass (81)	Zeolite (222)	Algae (5)	Diatoms (58)	Dinoflagellate (59)	Echinoid (65)	Fish Remains (74)	Foraminifers (78)	Nannofossils (132)	Ostracod (144)	Plant Debris (161)	Pteropod (166)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	Sponge Spicules (199)	Bioclasts (21)	Carbonate Grains (32)	Igneous Rock Fragments (94)	Rock Fragment (177)	Shell Debris (183)	Other (145)		Comments
28	X	4	118	246.08	M	25	55	20						2																			1	82	15															Foraminifer Chalk & Nannofossils
28	X	CC	3	248.69	D	2	3	95						2										3										2	91							2								Nannofossil Chalk
29	X	1	50	250.50	D	1	19	80						9													1							3	85							2								Nannofossil chalk
29	X	3	142	254.42	M	5	20	75	1				3	20			2			3				2		1	4							7	50				1			5					1			Clayey nannofossil chalk
29	X	3	144	254.44	M	5	15	80						17						3		1				2	2							8	65							2								Clayey nannofossil chalk
29	X	4	30	254.80	D	1	24	75						24						2		1					2							1	64				1			5								Clayey nannofossil chalk
30	X	1	88	260.48	D	0	10	90						18			2					5				1	3						1	2	62				1			3					2			Clayey nannofossil chalk
30	X	3	74	263.34	M	1	19	80					1	23			2	2		2		5				1	5							2	53				1			2					1			Clayey nannofossil chalk with volcanic debris
30	X	6	14	267.24	M	10	50	40				1		17			2			2				10		5	3							15	28				2			2		10		3				Clayey foram. and nannofossil chalk + pyrite
30	X	6	140	268.50	D	1	10	89				1		24												3	1						1	2	60							2					6			Clayey nannofossil chalk
31	X	1	130	270.50	D	1	20	79						16			3							2		3	4							5	62				1			2					2			Clayey nannofossil chalk
31	X	4	40	274.10	M		20	80					5	11			5	10				1		5		10	5					1		2	43							1					1			Clayey glauconitic nannofossil chalk
31	X	7	16	278.36	D		15	85						18								1				4	2							1	70							1					3			Clayey nannofossil chalk
32	X	1	40	279.30	D	0	10	90				3		41												3	1							1	50							1								Clayey nannofossil ooze
32	X	2	20	280.60	M	15	20	65				5		29						5				10		10	1						1	25	10							2	2							Foraminiferal silty clay
32	X	2	77	281.17	M	15	30	55				5		32						5				1		15								30	10							2								*0002
32	X	6	90	287.30	D	1	9	90				3		60												3	1							1	30							2								Nannofossil clay
33	X	4	14	293.14	M	0	5	95				5	1	46												5	2							5	31				1			4								Nannofossil clay
33	X	5	88	295.38	D	0	2	98				3		65												1								3	25							3								Nannofossil clay
33	X	6	75	296.75	M	10	15	75				5	1	37	1					1				5		2	2							28	7				1			10								Foraminiferal clay
34	X	1	60	298.70	D	1	7	92				2		40	1															1				1	50							3					2			Clay and Nannofossil mixed sediment
34	X	3	9	301.19	M	5	7	88				1		70												1			1	1				2	19							3					2			Clay with Nannofossils
34	X	4	140	304.00	M	50	40	10				2		5	1																			40	5							3					44			Foraminifer Chalk
35	X	2	88	310.08	M	15	25	60						43												1							1	30	15							10								Foraminifer Clay with Nannofossil and Spicule
35	X	3	47	311.17	M	60	30	10				2		5										1		1							1	65	10							15								Foraminifer Chalk with Spicules and Nannos
35	X	4	91	313.11	D	0	10	90				2		48										1		1								5	40							3								Nannofossil Clay
35	X	6	147	316.67	M	60	40											71																2	25							2								Glaunconite with Nannofossils
35	X	7	10	316.80	M	75	20	5				2														2							1	84	5							1					5			Foraminifer Chalk (Sand)
36	X	4	56	322.36	D	3	7	90				1		60																				1	32							4					2			Nannofossil Clay
36	X	6	66	325.46	M	50	30	20				1		10																1				30	8							2					48			Foraminifer Chalk (Sand)
37	X	2	131	329.71	D	3	5	92						44			1									1				1				5	45							3								Nannofossil Clay Mixed Sediment
37	X	4	76	332.16	D	0	5	95						54										1										2	40							3								Nannofossil Clay
37	X	6	44	334.84	D	0	80	20				2		15																				77	5							1								Foraminifer Chalk with Clay
37	X	6	110	335.50	D	30	65	5				5														1								84	3							2					5			Foraminifer Chalk (Silt)
38	X	1	38	336.78	M	65	25	10																										85	10					5										Foraminifer Chalk (Sand)
38	X	4	82	341.72	D	3	12	85						45																				5	45					5										Nannofossil clay (chalk)
38	X	6	17	344.07	M	2	6	92	1					49																				5	40					5										Nannofossil clay (chalk)
39	X	1	110	347.20	D	2	10	88					2	34								1				1	1							4	52				1			4								Clayey chalk
39	X	3	92	350.02	M	0	10	90				3		35		3						3					1							2	48				1			4								Clayey chalk

Sample						Texture			Mineral																							Biogenic																Rock								
Core	Type	Section	Interval Top (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Accessory Minerals (1)	Amphibole (8)	Biotite (22)	Calcite (30)	Chlorite (45)	Clay (47)	Dolomite (62)	Fe Oxide (68)	Feldspar (71)	Glauconite (82)	Manganese (111)	Mica (118)	Muscovite (131)	Opaques (140)	Organic Calcite (141)	Pyrite (169)	Pyroxene (171)	Quartz (172)	Volcanic Glass (81)	Zeolite (222)	Algae (5)	Diatoms (58)	Dinoflagellate (59)	Echinoid (65)	Fish Remains (74)	Foraminifers (78)	Nannofossils (132)	Ostracod (144)	Plant Debris (161)	Pteropod (166)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	Sponge Spicules (199)	Bioclasts (21)	Carbonate Grains (32)	Igneous Rock Fragments (94)	Rock Fragment (177)	Shell Debris (183)	Other (145)	Comments
39	X	4	71	351.31	M	1	10	89				4		44								2		1		2	1						1	2	36				1			6							Nannofossil clay
40	X	1	30	356.00	M	10	20	70				2		43												2	1						15	35							2							Nannofossil silty clay
40	X	4	136	361.56	M	25	35	40				4		40												2	2						30	20							2							Foraminifers and nannofossil silty clay
40	X	5	53	362.23	D	0	5	95				1		36												1	1						2	54				1			4							Clayey ooze (chalk)
41	X	3	132	369.22	M	0	15	85				5		42												2	5				1		5	35							5							Nannofossil clay
41	X	4	36	369.76	M	40	30	30				10		28										2		2							40	15						1	2							Foraminifera clayey sand
41	X	6	64	373.04	D	0	5	95				1		35																		1	5	50				1		1	5	1						Clayey nannofossil Ooze
42	X	1	20	374.70	M	0	5	95						40													1			1			4	49				1	4									Clayey nannofossil ooze (chalk)
42	X	1	120	375.70	D	0	5	95				1		40																			4	53						1	1							Clayey nannofossil ooze (chalk)
42	X	5	90	381.40	D	0	5	95				2						35															5	52				1			5							Clayey nannofossil ooze (chalk)
43	X	CC	8	384.28	D	0	5	95				3		40																			4	47				2			4							Clayey nannofossil ooze (chalk)
44	X	1	110	395.00	D	0	5	95				2		35																			5	52				1		1	4							Clayey nannofossil ooze (chalk)
44	X	4	91	399.31	M	0	35	65				30		32	1											2	1						5	26							3							Nannofossil and calcite silty clay
44	X	5	24	399.64	M	2	20	78				5		31										10			1						7	39							2	5						Clayey nannofossil ooze (chalk)
184-1143B-																																																		
1	H	1	20	0.20	D	15	25	60						40								1				10	2			2			10	25				5			5							Nannofossil clay
1	H	3	130	4.30	D	1	25	74						55						1						5	1			1			3	30				3			1							Nannofossil clay
2	H	2	80	7.70	M	5	75	20		1			3	10			5			3		1				64	1						1	10				1										Quartz Silt
2	H	6	50	13.40	D	0	10	90						51						2						10				1			5	22				5			4							Nannofossil clay
2	H	6	85	13.75	M	10	80	10						10			5									79							1	5														
3	H	3	118	19.08	D	3	15	82						48													1			2		1	3	35				5			5							Nannofossil Clay
3	H	5	122	22.12	M	2	6	92						85												5							2								8							Clay
3	H	5	148	22.38	D	2	8	90						42																			8	40				2			5					3		Clay/nanno mixed sediment
4	H	1	71	25.11	M	5	7	88				2		30			1			1				10		1				1				49		5												Clayey Nannofossil ooze with pyrite
4	H	3	27	27.67	D	1	5	94	1			2		27			2									2				2			1	60												3		Clayey nannofossil ooze
4	H	3	100	28.40	D	2	7	91				2		25			1									1				2			2	64												3		Clayey Nannofossil Ooze
4	H	5	75	31.15	D	2	7	91						40																3		1	5	49							2							Clayey Nannofossil Ooze
5	H	1	110	35.00	D	10	5	85				2		63										1						3			15	15							1							Clay with Foraminfers and Nannofossils
5	H	2	102	36.42	M	1	7	92				3		32			1							1		1				1				60								1							Clayey Nannofossil Ooze
5	H	3	90	37.80	M	3	12	85				2		30													1			5	1		1	5	52							3							Clayey Nannofossil Ooze
5	H	4	5	38.45	M	20	80				1										1					98																								Volcanic Ash
5	H	5	24	40.14	M	50	45	5				1					1									1							90														7		Foraminifer Ooze
5	H	5	37	40.27	M	80	15	5				1														1							90														8		Foraminifer Ooze
5	H	5	120	41.10	D	5	8	87				1		52													1			2		1	10	30							3							Nannofossil Clay with Foraminifers
5	H	6	24	41.64	M	50	45	5				1					1									1							90														7		Foraminifer Ooze
5	H	6	37	41.77	M	80	15	5				1														1							90														8		Foraminifer Ooze

Sample						Texture			Mineral																				Biogenic														Rock						
Core	Type	Section	Interval Top (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Accessory Minerals (1)	Amphibole (8)	Biotite (22)	Calcite (30)	Chlorite (45)	Clay (47)	Dolomite (62)	Fe Oxide (68)	Feldspar (71)	Glauconite (82)	Manganese (111)	Mica (118)	Muscovite (131)	Opaques (140)	Organic Calcite (141)	Pyrite (169)	Pyroxene (171)	Quartz (172)	Volcanic Glass (81)	Zeolite (222)	Algae (5)	Diatoms (58)	Dinoflagellate (59)	Echinoid (65)	Fish Remains (74)	Foraminifers (78)	Nannofossils (132)	Ostracod (144)	Plant Debris (161)	Pteropod (166)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	Sponge Spicules (199)	Bioclasts (21)	Carbonate Grains (32)	Igneous Rock Fragments (94)	Rock Fragment (177)	Shell Debris (183)	Other (145)	Comments
6	H	1	80	44.20	D	0	7	93				2		61										1										3	30							2					1		Nannofossil clay
6	H	3	50	46.90	D	3	5	92				5		59										1		5									30														Nannofossil clay
7	H	1	34	53.24	M	0	2	98						80												2								2	10							1	5						Clay with Nannofossils
7	H	2	37	54.77	D	0	5	95				5		59			1									2								3	30														Nannofossil Clay
7	H	6	55	60.95	M	10	10	80						56										1		1								15	25							2							Nannofossil Clay with Foraminifers
8	H	3	63	66.03	M	2	5	93				3		54																				10	30							3							Nanno Clay with Forams
8	H	4	24	67.14	M	5	90	5						10		2										7	78								3														Nannofossil Clay
8	H	5	90	69.30	D	2	5	93						62												2									30							1	5						Volcanic Glass
8	H	CC	1	71.88	M	5	90	5						5												2	88							5															Volcanic Glass
9	H	1	9	71.99	D	0	20	80				3		62								1				4	2							2	26														Nannofossil clay
9	H	6	7	79.47	M	20	70	10				46		10			5			3						10	5							20	1														Calcite and foraminifera silt
9	H	6	23	79.63	M	0	10	90				10		62						2						10	2							2	10							2							Clay
9	H	6	27	79.67	M	3	15	82				10		60						1						1	20							1	5							2							Volcaniclastic clay
9	H	6	31	79.71	M	0	15	85				10	2	60			2			5		1				10	5								5														Calcite and qurtzy clay
10	H	1	100	82.40	D	0	20	80				2		62			4			2						5								4	21														Nannofossil clay
10	H	4	20	86.10	D	0	15	85				2	2	53												2	3							2	36														Nannofossil clay
10	H	5	7	87.47	M	0	30	70				10		50			5			2		10				10								2	5							5			1				Clay
10	H	7	30	90.70	D	1	30	69				10	1	52						2						10	5							4	15							1							Nannofossil clay
11	H	1	55	91.45	D	0	10	90				5		59								2				10	2							2	20														Nannofossil clay
11	H	2	67	93.07	M	0	20	80				2	4	25				60		1						2							1		2							2	1						Glauconitic clay
11	H	7	14	100.04	D	0	15	85				2		62				2						5		3	2							3	20							1							Nannofossil clay
12	H	2	50	102.40	D	0	10	90				2	1	62						1						2	1						1	3	26							1							Nannofossil clay
12	H	7	40	109.80	D	0	30	70				2		73						2		2				5								3	13														Clay with nannofossils
13	H	2	70	112.10	D	2	7	91				2		54										1		1							1	5	35							1							Nannofossil Clay
13	H	3	122	114.12	M	0	6	94				3		58													1			1			1	2	33							1							Nannofossil Clay
14	H	1	80	120.20	D	0	4	96				2		60			1							1		1	1							1	32							1							Nannofossil Clay
14	H	3	99	123.39	M	3	3	94				3		62										1		2							1	3	28														Nannofossil Clay
15	H	3	73	132.63	D	0	2	98				5		58										3		1								2	29							2							Nannofossil Clay
15	H	3	107	132.97	M	20	50	30						20										2		1							2	35	10								30						Foraminifer/bioclast mixed sediment with clay
15	H	3	138	133.28	M	10	80	10						10			5									80								1	4														Quartz Silt
15	H	6	52	136.92	D	2	3	95				5		50										3										5	37														Nannofossil Clay
16	H	2	57	140.37	D	0	2	98				2		70																				3	25														Nannofossil Clay
16	H	6	100	146.80	M	0	15	85	5			5		40										2		8								15	25														Nannofossil Clay
16	H	6	106	146.86	D	0	5	95				3		70										5		4							3		15														Clay with Nannofossils
17	H	1	80	148.70	D	2	5	93				2		53												1				1				1	40												2		Clay and nannofossils mixed sedment
17	H	3	110	152.00	D	2	10	88				3		53												1			2					1	35												5		Nannofossil Clay
17	H	4	20	152.60	D	1	6	93				3		86												1									9												1		Clay
17	H	4	39	152.79	D	3	6	91				3		46															2	2				2	41												4		Clay Nannofossil Mixed Sediment
17	H	5	1	153.91	D	0	5	95	1			2		90												1			1						5														Clay
18	H	2	100	159.50	D	0	20	80				5		17												5								2	70							1							
18	H	6	90	165.40	D	0	10	90				2		18												3	1							1	75														Clayey nannofossil ooze
19	H	1	120	168.10	M	0	15	85				4	1	25												2							1	2	65														Clayey nannofossil ooze
19	H	5	110	174.00	M	0	15	85				2	1	29						1						1								1	65														Clayey nannofossil ooze

Sample						Texture			Mineral																				Biogenic														Rock						
Core	Type	Section	Interval Top (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Accessory Minerals (1)	Amphibole (8)	Biotite (22)	Calcite (30)	Chlorite (45)	Clay (47)	Dolomite (62)	Fe Oxide (68)	Feldspar (71)	Glauconite (82)	Manganese (111)	Mica (118)	Muscovite (131)	Opaques (140)	Organic Calcite (141)	Pyrite (169)	Pyroxene (171)	Quartz (172)	Volcanic Glass (81)	Zeolite (222)	Algae (5)	Diatoms (58)	Dinoflagellate (59)	Echinoid (65)	Fish Remains (74)	Foraminifers (78)	Nannofossils (132)	Ostracod (144)	Plant Debris (161)	Pteropod (166)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	Sponge Spicules (199)	Bioclasts (21)	Carbonate Grains (32)	Igneous Rock Fragments (94)	Rock Fragment (177)	Shell Debris (183)	Other (145)	Comments
20	X	2	136	178.26	M	60	20	20	1		19			10			2									18	50																						Volcanic Ash
20	X	3	90	179.30	D	2	5	93				1		33															1	1				1	60												3		Clayey Nannofossil ooze
20	X	5	10	181.50	D	1	5	94				2		35															1	1					60												1		Clayey Nannofossil Ooze
21	X	1	20	181.30	D	2	8	90				1		33																1				2	60												3		Nannofossil Ooze with Clay
21	X	3	34	183.55	D	1	1	98						50																				2	48														Nannofossil and clay mixed sediment
21	X	3	70	183.91	D	2	5	93				2		84															1	1					10												2		Clay with Nannofossils
21	X	6	100	188.71	D	0	5	95				2		24							1								1	1					70												1		Nannofossil Ooze with Clay
22	X	1	80	191.50	M	1	6	93				2		60															1	1					34												2		Nannofossil Clay
22	X	2	66	192.86	D	3	6	91				1		33															1	1				1	60												3		Clayey Nannofossil ooze
23	X	1	140	201.70	M	15	65	20	1					15																			1	40	20								23						Foraminifer Ooze with bioclasts and nannos
23	X	2	49	202.29	D	5	15	80						40												1								14	40								5						Clay Nannofossil Mixed Sediment with Forams
23	X	4	57	205.37	M	5	15	80						60										1									1	15	15								8						
24	X	1	66	210.56	D	0	10	90				5		35												2								3	54							1							
24	X	2	33	211.73	M	5	25	70				10		35						5						10	2							15	23														Nannofossil and foraminifera clay
24	X	3	65	213.55	M	3	17	80				5		32						1						2				1				10	48							1							Clayey ooze
25	X	2	72	221.72	M	30	50	20	4					6						5				4		1	5							60	10							1	3		1				Foram silt with volcaniclastic debris
26	X	3	136	233.56	M	2	50	48	2			5		30						2						2	15							4	37							2	1						Nannofossil and volcanic clay
26	X	4	6	233.76	M	5	65	30				5		35								2				15	5							10	20							3	5						Clay and quartz nannofossil silt
26	X	4	40	234.10	M	5	60	35				5		24			5					5		2		20	2							10	25								2						Clay and quartz nannofossil silt
26	X	4	42	234.12	M	5	70	25				15		20			5			2				4		20	5							7	20							2							Quartz clay and nannofossil silt
27	X	3	85	242.75	D	1	19	80						35										2		2	1							5	52							3							Clayey nannofossil ooze
27	X	7	35	248.25	M	3	35	62	2			5		26						1				1		15	3						1	5	39							2							Clayey nannofossil ooze with quartz
28	X	3	111	252.71	M	0	5	95				4		40										1		2	2							2	45							2	2						Clayey nannofossil ooze
28	X	5	93	255.53	M	0	10	90				3		51												2	2							2	35							3	2						Nannofossil clay
28	X	6	37	256.17	D	0	10	90	2			5		42												3	1							5	40							2							Nannofossil clay
184-1143C-																																																	
16	H	5	49	145.89	M	20	50	30				50		7						2				5		1								30	5														
43	X	2	44	393.24	D	3	5	92				1		50												1				1				1	42							2					2		Clay Nannofossil Mixed Sediment
43	X	3	70	395.00	D	3	7	90				2		50	1															1				1	38				1			4					2		Clay Nannofossil Mixed Sediment
43	X	4	137	397.17	M	15	60	25				10														1							1	68	20														Foraminifer Chalk with Nannos & Calcite
44	X	2	76	403.26	D	10	15	75				3		60																				20	12				1			3			1				Clay with Foraminifers & Nannofossils
44	X	4	130	406.80	M	30	10	60				2		40												1								10	25							2					20		Nannofossil Caly with Forams and shell debris

Sample						Texture			Mineral																				Biogenic														Rock						
Core	Type	Section	Interval Top (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Accessory Minerals (1)	Amphibole (8)	Biotite (22)	Calcite (30)	Chlorite (45)	Clay (47)	Dolomite (62)	Fe Oxide (68)	Feldspar (71)	Glauconite (82)	Manganese (111)	Mica (118)	Muscovite (131)	Opaques (140)	Organic Calcite (141)	Pyrite (169)	Pyroxene (171)	Quartz (172)	Volcanic Glass (81)	Zeolite (222)	Algae (5)	Diatoms (58)	Dinoflagellate (59)	Echinoid (65)	Fish Remains (74)	Foraminifers (78)	Nannofossils (132)	Ostracod (144)	Plant Debris (161)	Pteropod (166)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	Sponge Spicules (199)	Bioclasts (21)	Carbonate Grains (32)	Igneous Rock Fragments (94)	Rock Fragment (177)	Shell Debris (183)	Other (145)	Comments
44	X	6	57	409.07	M	30	20	50				5		36																				33	15							1					10		Foraminifer Clay Mixed Sediment with Nannos
45	X	1	120	411.90	D	1	10	89				3		60												2			1						22								2				10		Nannofossil Clay
45	X	2	29	412.49	M	2	10	88				2		70												2			2	1				1	10								2				10		Nannofossil Clay
45	X	3	90	414.60	D	3	8	89				2		68												2			2						19							2					5		Nannofossil Clay
45	X	CC	9	420.14	M	6	4	90	1					90			4									5																							Claystone (Volcanic ash origin)
46	X	1	25	420.55	M	90	5	5																										90	5							5							Foraminifer Sand
46	X	2	94	422.74	D		20	80						45																				10	20				5			20							Clay with Nannofossils forams and spicules
46	X	5	92	427.22	M		30	70						53																2									5			40							Biosiliceous Claystones
47	X	1	60	430.50	D	1	5	94				2		71												1								1	18				2			5							Clay with Nannofossils
47	X	4	67	435.07	M	100																					100																						Volcanic Glass (Large clast)
47	X	4	81	435.21	M	2	8	90				1		70										1		1									20							5					2		Clay with Nannofossils
47	X	4	143	435.83	M	2	8	90				1		72												2			1	1				1	15				2			3					2		Clay with Nannofossils
47	X	5	36	436.26	M	100																					100																						Volcanic Glass
48	X	1	90	440.40	D	1	9	90				2		74												2			1	4				1	10							4					2		Clay with Nannofossils
48	X	1	113	440.63	M	80	10	10						7										4						1				79								1					8		Foraminifer Chalk
48	X	2	53	441.53	M		20	80				1		60												2									32							3					2		Nannofossil Clay (Lamina dark layer)
49	X	1	110	450.30	D	5	50	45				2		40																					50							5					3		Nannofossil Clay mixed Sediment
49	X	3	36	452.56	M	70	15	15						5																				10	10							5	70						Bioclast Sand
49	X	5	130	456.50	M	15	65	20	2			10		10										60		3									10							5							Sulfide Silt
49	X	CC	34	458.11	M	70	20	10	6					4			4									7	70								5								4						Volcanic Glass
50	X	1	40	459.30	M	40	30	30						25								2		3			2							50	10							8							Foraminifera and clayey silty sand
50	X	5	50	465.40	D	0	10	90				1		53	1							2					2							3	32				1			5							Nannofossil clay
50	X	6	33	466.73	M	5	30	65	3			5		50													2							15	20							5							Nannofossil and foraminifera silty clay
51	X	1	127	469.77	M	15	60	25				10		40								1		2			4			1				20	10				1		1	5	5						Foraminifers clayey silt
51	X	4	100	474.00	M	0	10	90				5		40	2							1					4			1				10	30				1			4	2						Nannofossil clay
52	X	3	25	481.45	M	10	20	70				10		45	1							2		2			2							5	30							3							Nannofossil silty clay
52	X	6	82	486.52	D	0	15	85				3		55	1												1							2	35				1			2							Nannofossil clay
53	X	1	70	488.60	M	15	20	65	5			15		30								5		15										15	10							5							Silty clay with foraminifers calcite & pyrit
53	X	3	15	491.05	M	60	30	10	10													20					70																						Opaque and volcaniclastic silty sand
53	X	5	134	495.24	M	60	30	10	2			2					36					50					10																						Volcaniclastic sand
53	X	6	44	495.84	M	10	50	40	2				10	28								5		20			10							2	20							3							Nannofossil & pyrite clayey silt