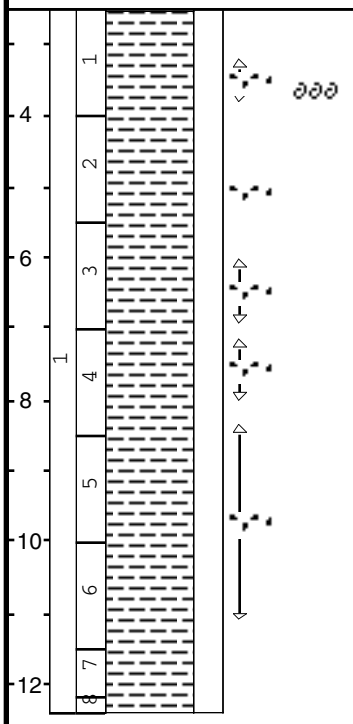
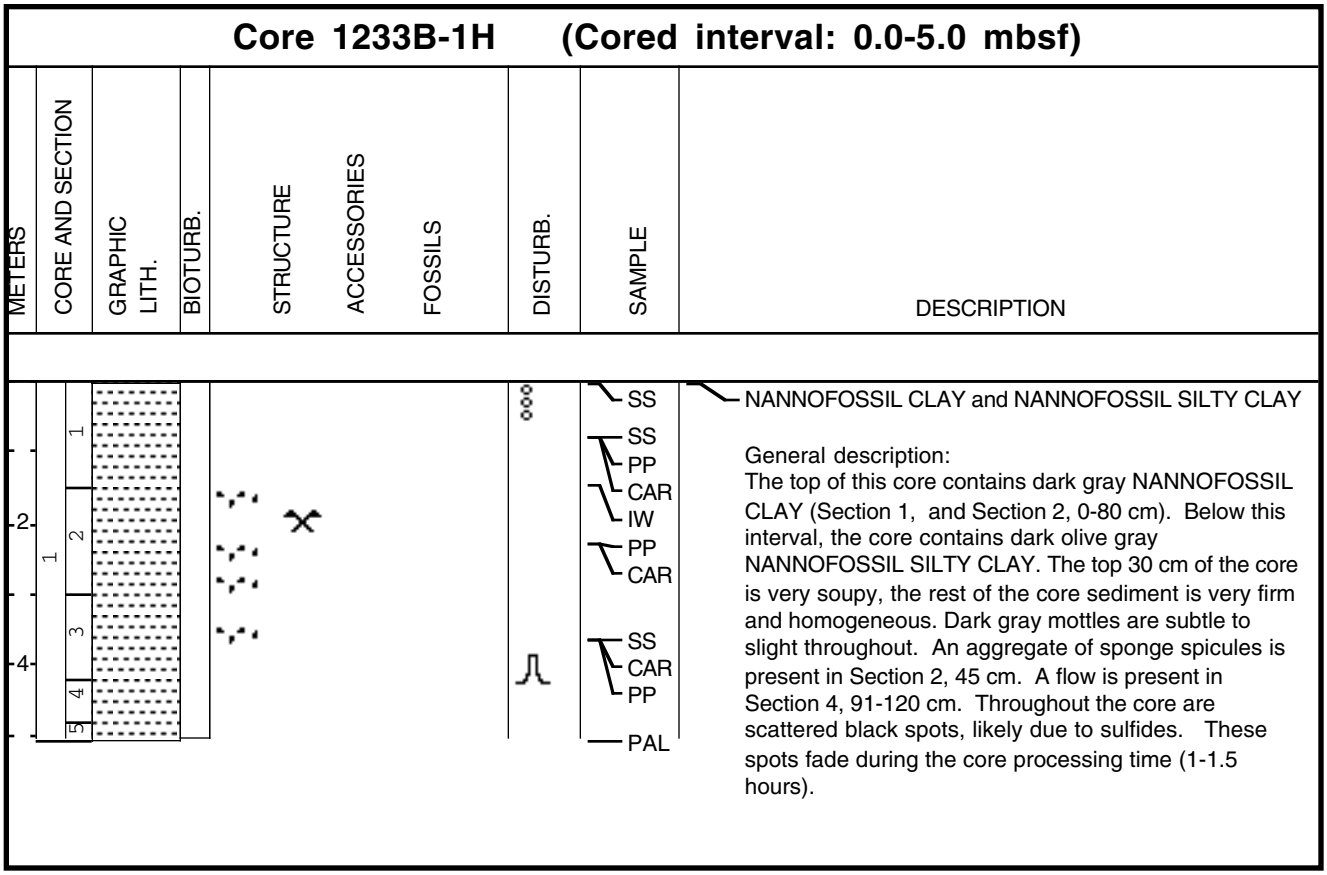
Core Photo

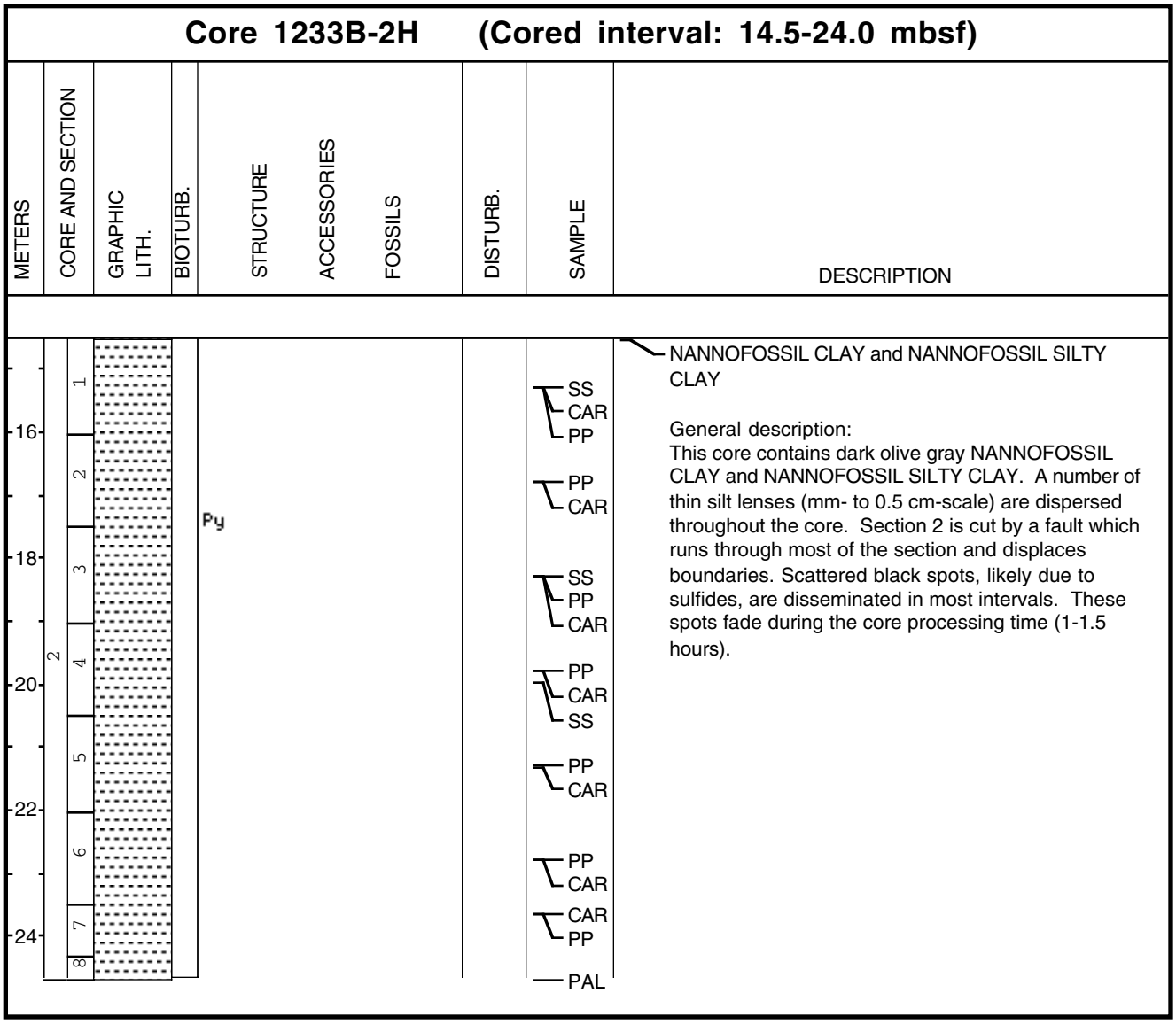
Core 1233A-1H (Cored interval: 2.5-12.0 mbsf)



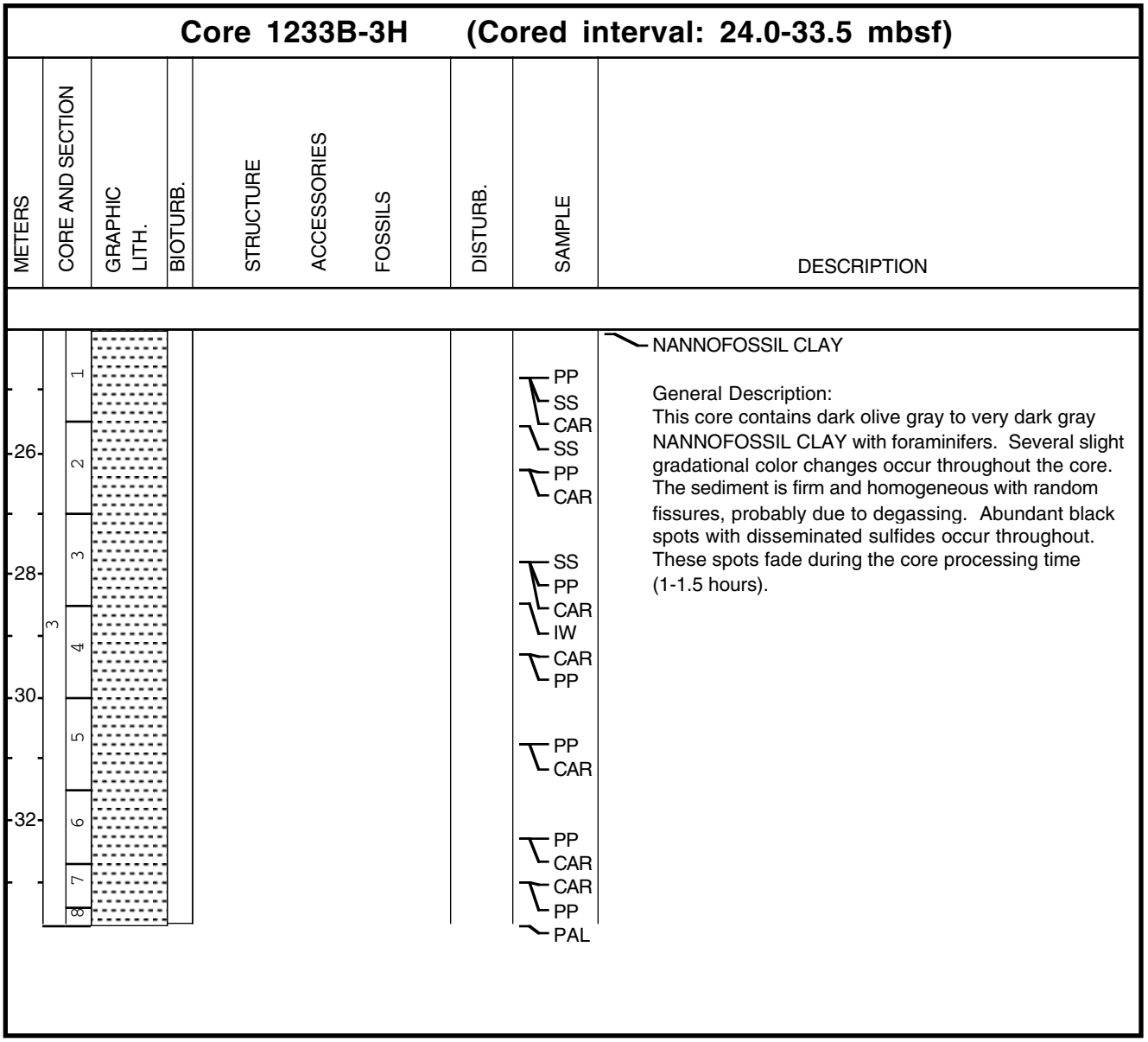
Core Photo


Core 1233B-1H (Cored interval: 0.0-5.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
2
4
1
2
3
4
5
SS
SS
PP
CAR
IW
PP
CAR
SS
CAR
PP
PAL
NANNOFOSSIL CLAY and NANNOFOSSIL SILTY CLAY
General description:
The top of this core contains dark gray NANNOFOSSIL CLAY (Section 1, and Section 2, 0-80 cm). Below this interval, the core contains dark olive gray NANNOFOSSIL SILTY CLAY. The top 30 cm of the core is very soupy, the rest of the core sediment is very firm and homogeneous. Dark gray mottles are subtle to slight throughout. An aggregate of sponge spicules is present in Section 2, 45 cm. A flow is present in Section 4, 91-120 cm. Throughout the core are scattered black spots, likely due to sulfides. These spots fade during the core processing time (1-1.5 hours).

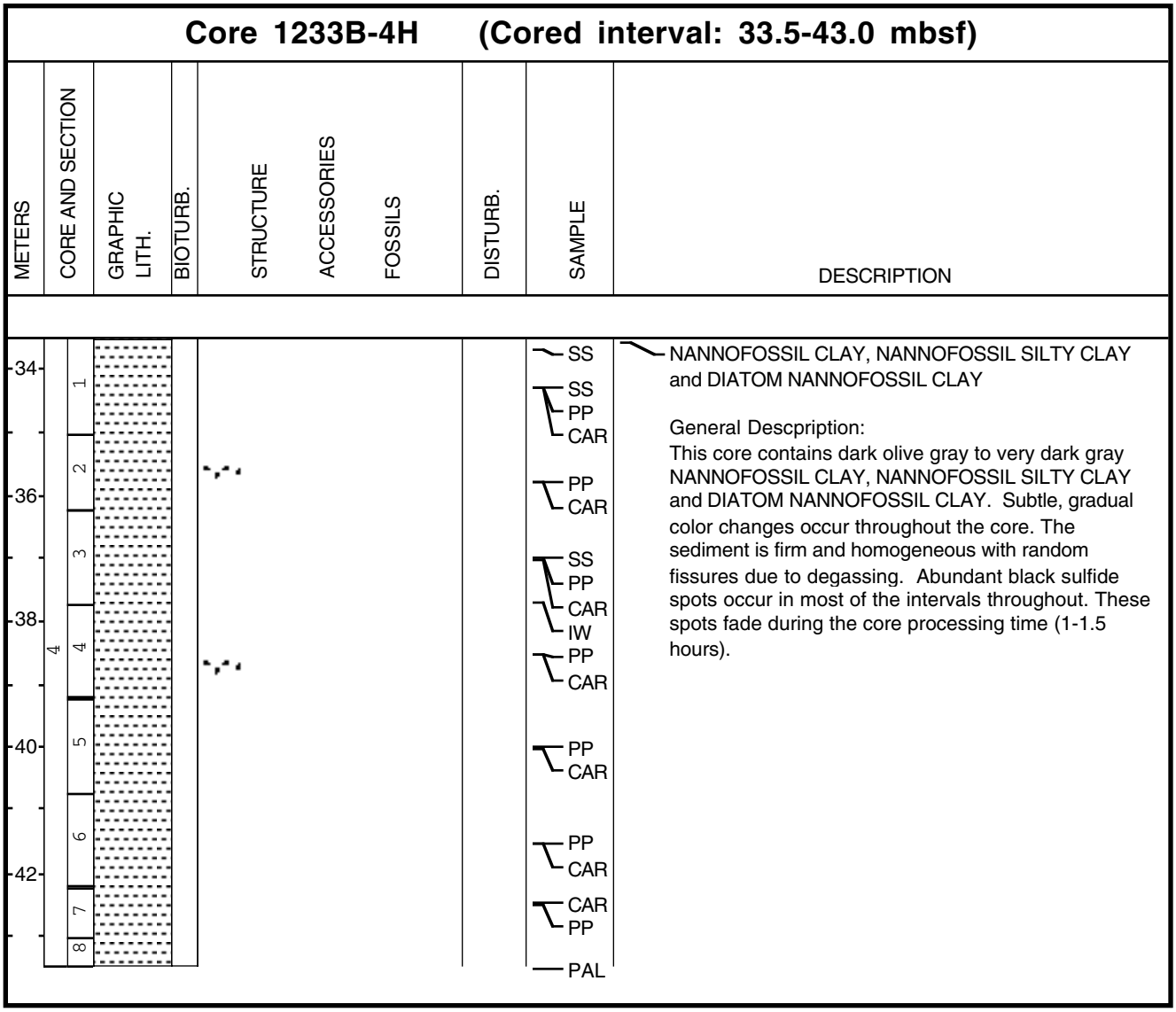
Core Photo


Core 1233B-2H (Cored interval: 14.5-24.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
16
18
20
22
24
2
1
2
3
4
5
6
7
8
Py
SS
CAR
PP
PP
CAR
SS
PP
CAR
PP
CAR
SS
PP
CAR
PP
CAR
CAR
PP
PAL
NANNOFOSSIL CLAY and NANNOFOSSIL SILTY CLAY
General description:
This core contains dark olive gray NANNOFOSSIL CLAY and NANNOFOSSIL SILTY CLAY. A number of thin silt lenses (mm- to 0.5 cm-scale) are dispersed throughout the core. Section 2 is cut by a fault which runs through most of the section and displaces boundaries. Scattered black spots, likely due to sulfides, are disseminated in most intervals. These spots fade during the core processing time (1-1.5 hours).

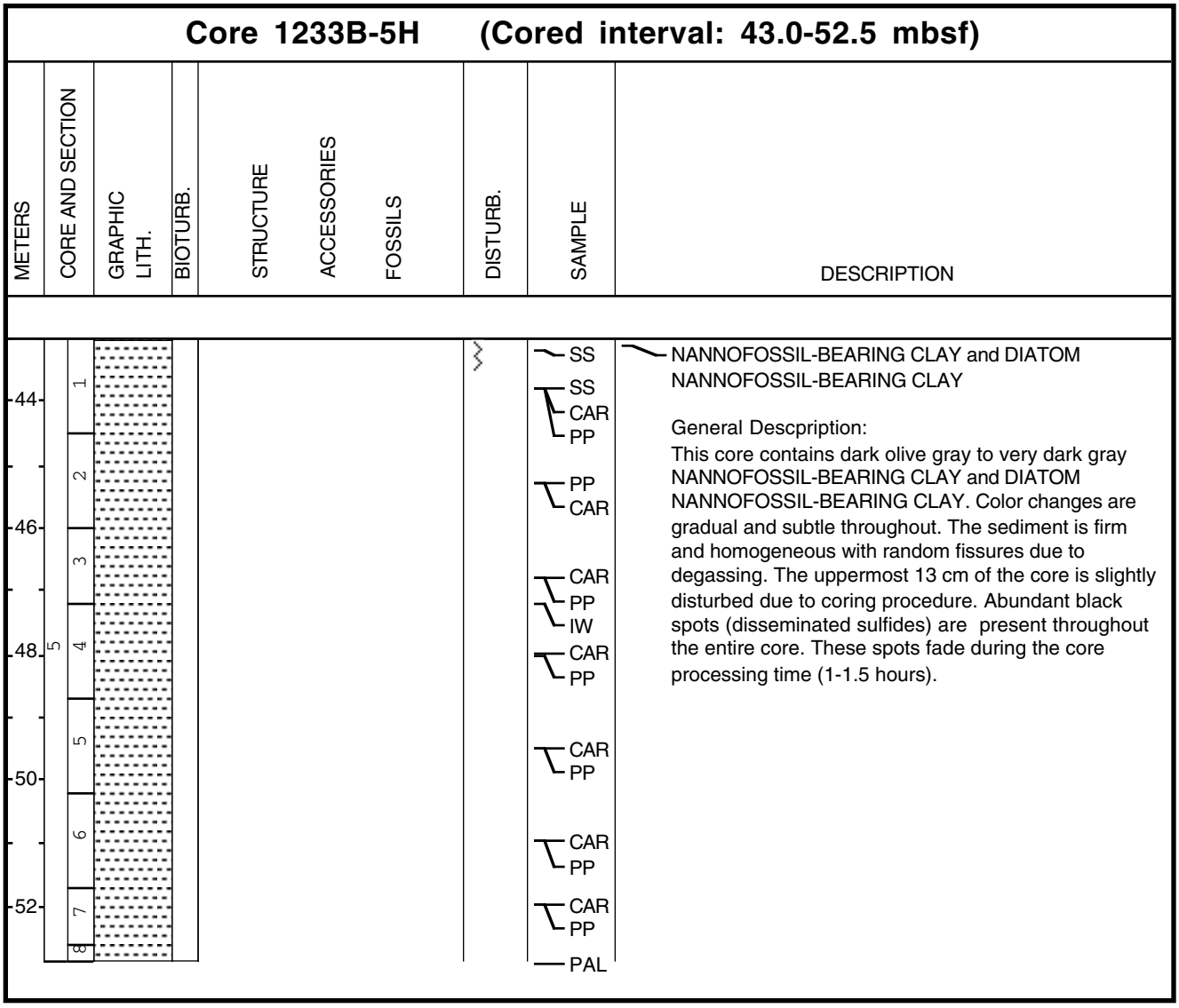
Core Photo


Core 1233B-3H (Cored interval: 24.0-33.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
26
28
30
32
3
1
2
3
4
5
6
7
8
PP
SS
CAR
SS
PP
CAR
SS
PP
CAR
IW
CAR
PP
PP
CAR
PP
CAR
CAR
PP
PAL
NANNOFOSSIL CLAY
General Description:
This core contains dark olive gray to very dark gray NANNOFOSSIL CLAY with foraminifers. Several slight gradational color changes occur throughout the core. The sediment is firm and homogeneous with random fissures, probably due to degassing. Abundant black spots with disseminated sulfides occur throughout. These spots fade during the core processing time (1-1.5 hours).

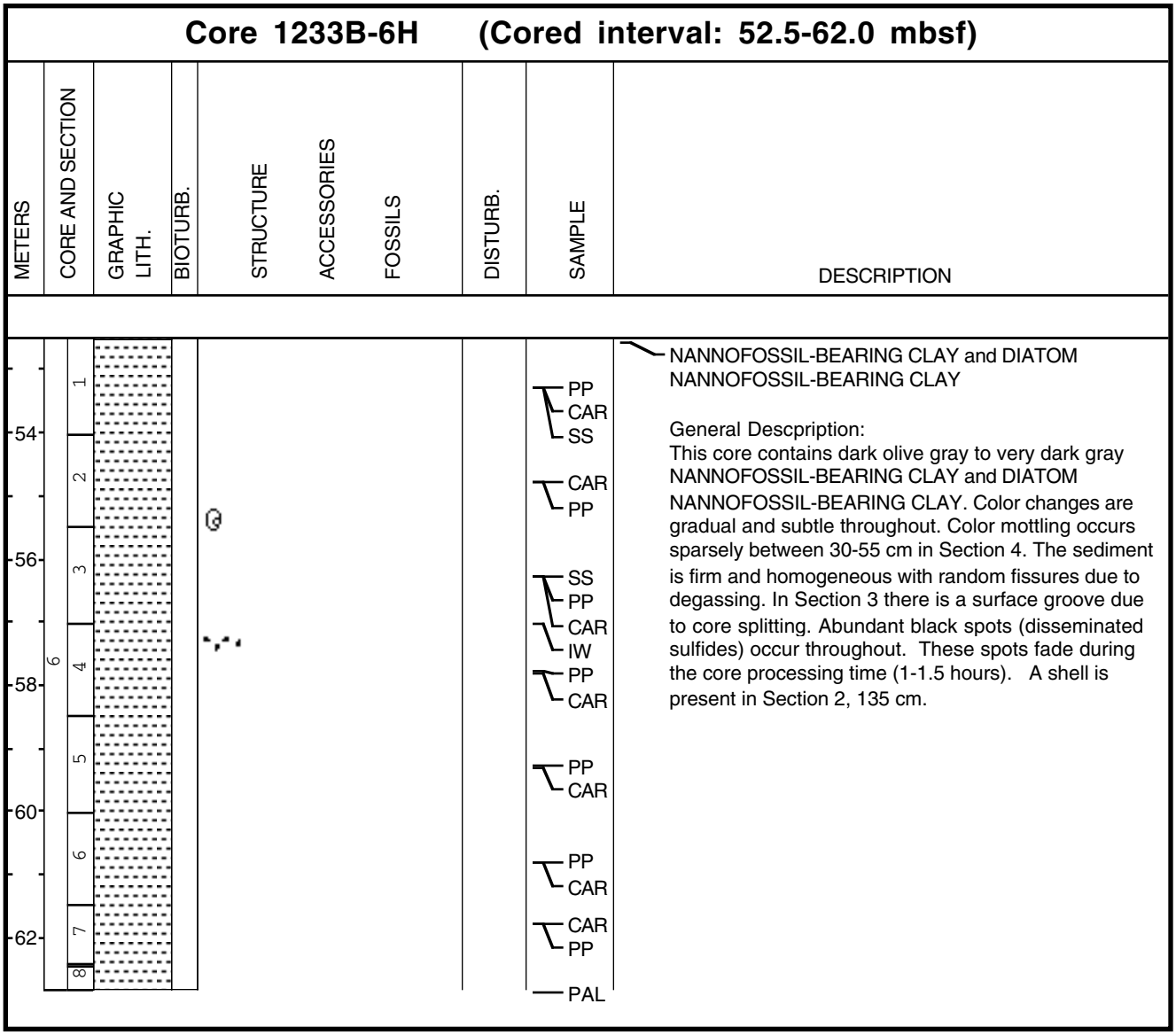
Core Photo


Core 1233B-4H (Cored interval: 33.5-43.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
34
36
38
40
42
4
1
2
3
4
5
6
7
8
SS
SS
PP
CAR
PP
CAR
SS
PP
CAR
IW
PP
CAR
PP
CAR
PP
CAR
CAR
PP
PAL
NANNOFOSSIL CLAY, NANNOFOSSIL SILTY CLAY and DIATOM NANNOFOSSIL CLAY
General Descpription:
This core contains dark olive gray to very dark gray NANNOFOSSIL CLAY, NANNOFOSSIL SILTY CLAY and DIATOM NANNOFOSSIL CLAY. Subtle, gradual color changes occur throughout the core. The sediment is firm and homogeneous with random fissures due to degassing. Abundant black sulfide spots occur in most of the intervals throughout. These spots fade during the core processing time (1-1.5 hours).

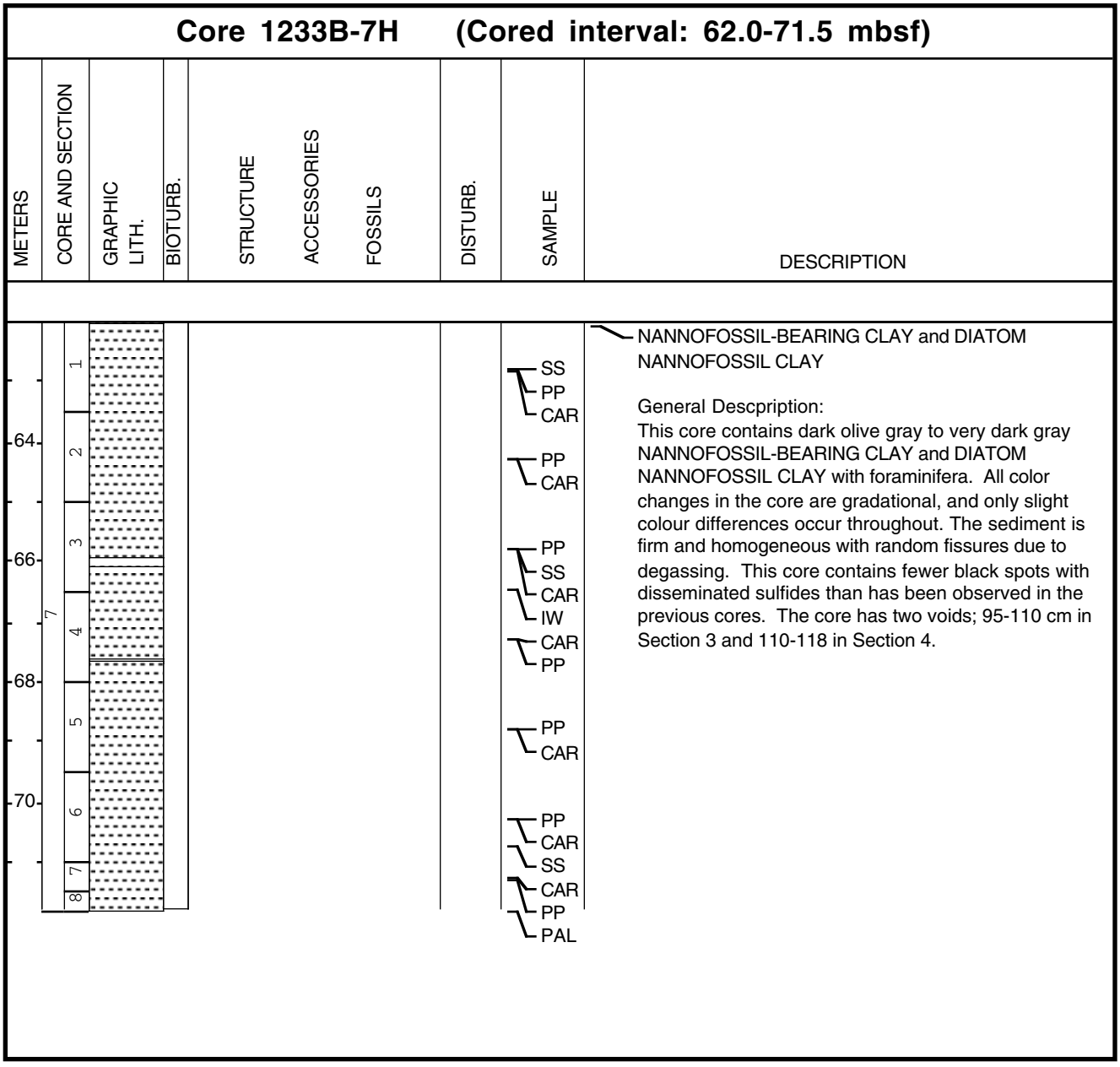
Core Photo


Core 1233B-5H (Cored interval: 43.0-52.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
44
46
48
50
52
5
1
2
3
4
5
6
7
8
SS
SS
CAR
PP
PP
CAR
CAR
PP
IW
CAR
PP
CAR
PP
CAR
PP
CAR
PP
PAL
NANNOFOSSIL-BEARING CLAY and DIATOM NANNOFOSSIL-BEARING CLAY
General Descpription:
This core contains dark olive gray to very dark gray NANNOFOSSIL-BEARING CLAY and DIATOM NANNOFOSSIL-BEARING CLAY. Color changes are gradual and subtle throughout. The sediment is firm and homogeneous with random fissures due to degassing. The uppermost 13 cm of the core is slightly disturbed due to coring procedure. Abundant black spots (disseminated sulfides) are present throughout the entire core. These spots fade during the core processing time (1-1.5 hours).

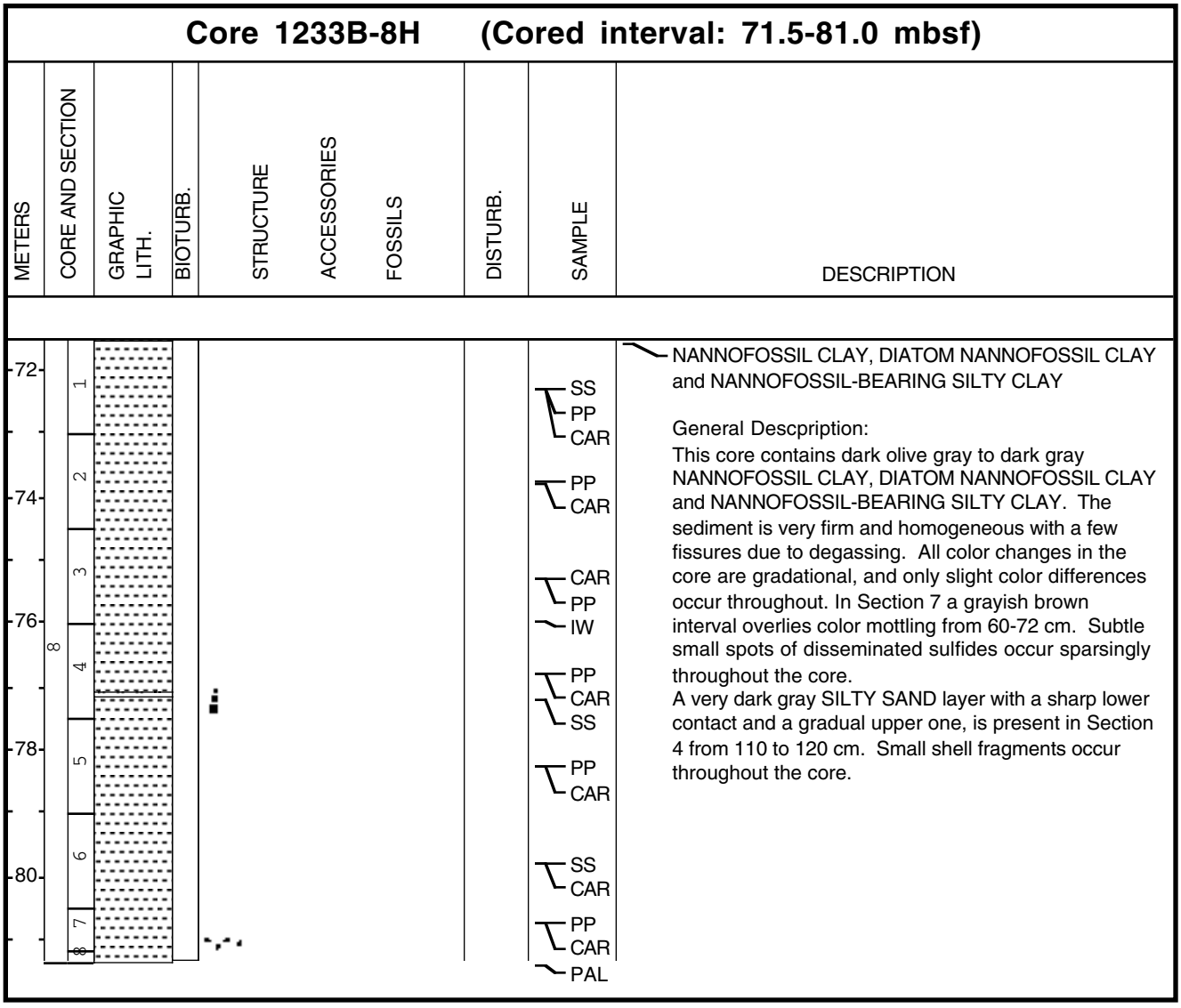
Core Photo


Core 1233B-6H (Cored interval: 52.5-62.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
54
56
58
60
62
6
1
2
3
4
5
6
7
8
PP
CAR
SS
CAR
PP
SS
PP
CAR
IW
PP
CAR
PP
CAR
PP
CAR
CAR
PP
PAL
NANNOFOSSIL-BEARING CLAY and DIATOM NANNOFOSSIL-BEARING CLAY
General Descpription:
This core contains dark olive gray to very dark gray NANNOFOSSIL-BEARING CLAY and DIATOM NANNOFOSSIL-BEARING CLAY. Color changes are gradual and subtle throughout. Color mottling occurs sparsely between 30-55 cm in Section 4. The sediment is firm and homogeneous with random fissures due to degassing. In Section 3 there is a surface groove due to core splitting. Abundant black spots (disseminated sulfides) occur throughout. These spots fade during the core processing time (1-1.5 hours). A shell is present in Section 2, 135 cm.

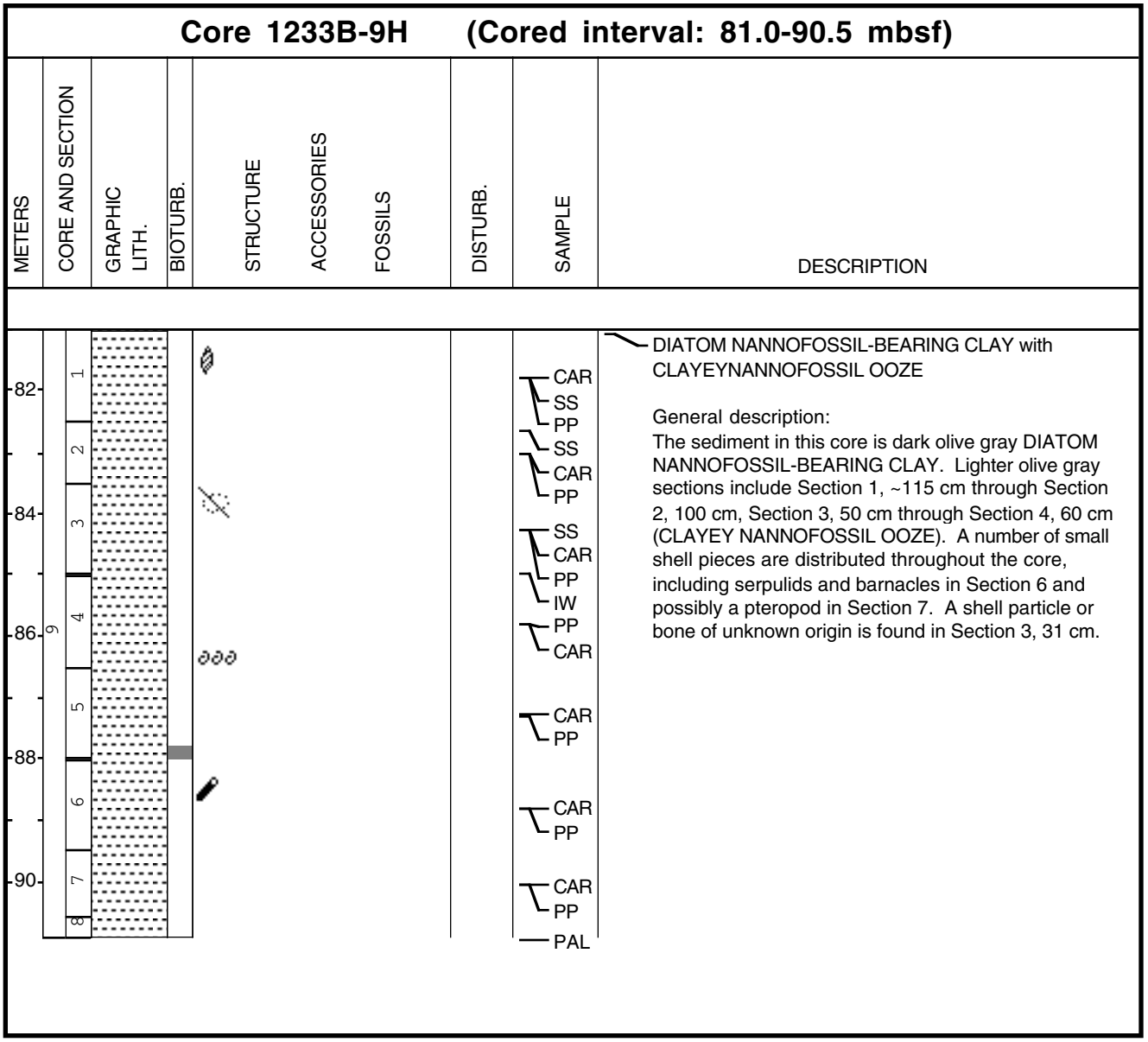
Core Photo


Core 1233B-7H (Cored interval: 62.0-71.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
64
66
68
70
7
1
2
3
4
5
6
7
8
SS
PP
CAR
PP
CAR
PP
SS
CAR
IW
CAR
PP
PP
CAR
PP
CAR
SS
CAR
PP
PAL
NANNOFOSSIL-BEARING CLAY and DIATOM NANNOFOSSIL CLAY
General Descpription:
This core contains dark olive gray to very dark gray NANNOFOSSIL-BEARING CLAY and DIATOM NANNOFOSSIL CLAY with foraminifera. All color changes in the core are gradational, and only slight colour differences occur throughout. The sediment is firm and homogeneous with random fissures due to degassing. This core contains fewer black spots with disseminated sulfides than has been observed in the previous cores. The core has two voids; 95-110 cm in Section 3 and 110-118 in Section 4.

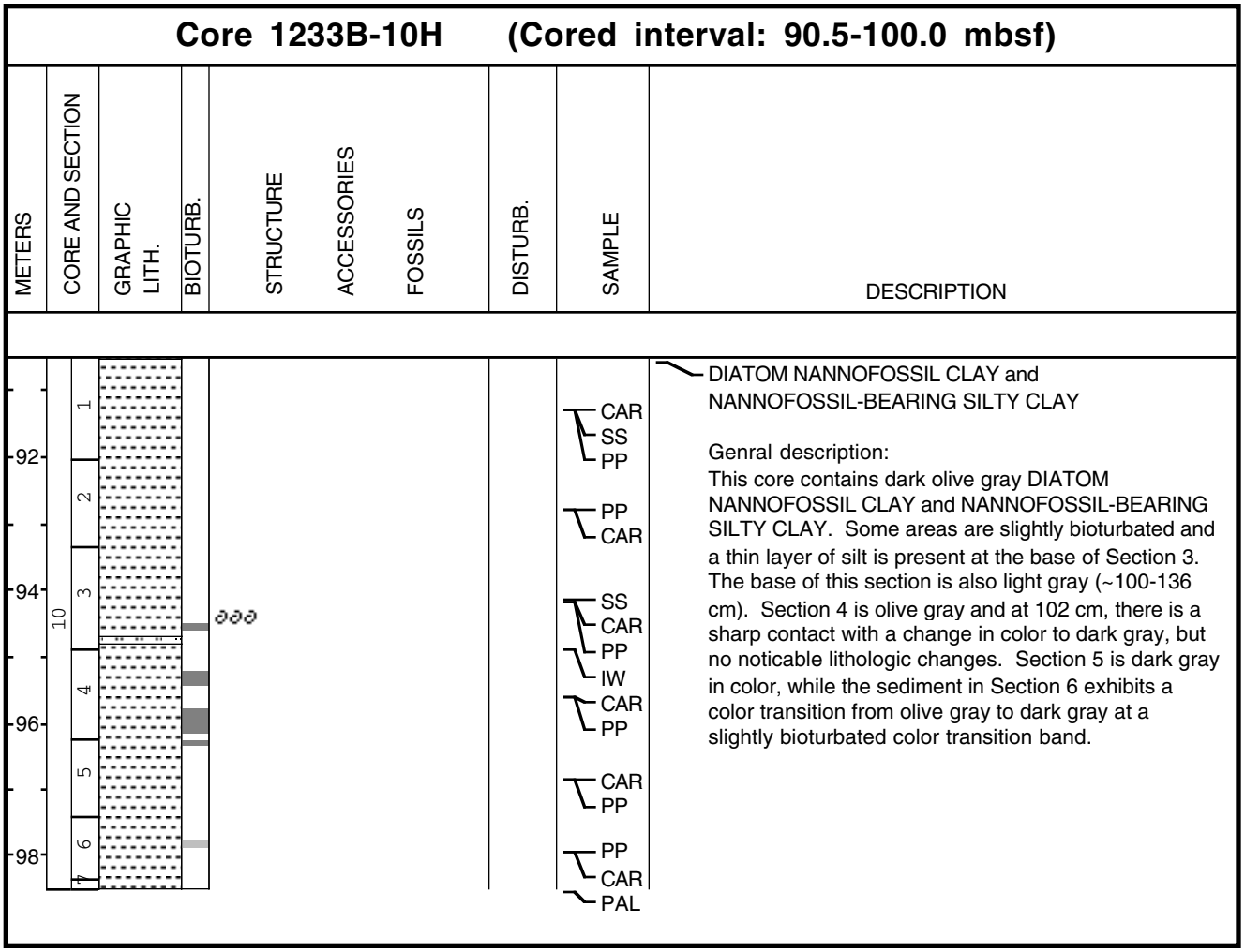
Core Photo


Core 1233B-8H (Cored interval: 71.5-81.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
72
74
76
78
80
8
1
2
3
4
5
6
7
SS
PP
CAR
PP
CAR
CAR
PP
IW
PP
CAR
SS
PP
CAR
SS
CAR
PP
CAR
PAL
NANNOFOSSIL CLAY, DIATOM NANNOFOSSIL CLAY and NANNOFOSSIL-BEARING SILTY CLAY
General Descpription:
This core contains dark olive gray to dark gray NANNOFOSSIL CLAY, DIATOM NANNOFOSSIL CLAY and NANNOFOSSIL-BEARING SILTY CLAY. The sediment is very firm and homogeneous with a few fissures due to degassing. All color changes in the core are gradational, and only slight color differences occur throughout. In Section 7 a grayish brown interval overlies color mottling from 60-72 cm. Subtle small spots of disseminated sulfides occur sparsingly throughout the core.
A very dark gray SILTY SAND layer with a sharp lower contact and a gradual upper one, is present in Section 4 from 110 to 120 cm. Small shell fragments occur throughout the core.

Core Photo


Core 1233B-9H (Cored interval: 81.0-90.5 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
82
84
86
88
90
9
1
2
3
4
5
6
7
8
CAR
SS
PP
SS
CAR
PP
SS
CAR
PP
IW
PP
CAR
CAR
PP
CAR
PP
CAR
PP
PAL
DIATOM NANNOFOSSIL-BEARING CLAY with CLAYEYNANNOFOSSIL OOZE
General description:
The sediment in this core is dark olive gray DIATOM NANNOFOSSIL-BEARING CLAY. Lighter olive gray sections include Section 1, ~115 cm through Section 2, 100 cm, Section 3, 50 cm through Section 4, 60 cm (CLAYEY NANNOFOSSIL OOZE). A number of small shell pieces are distributed throughout the core, including serpulids and barnacles in Section 6 and possibly a pteropod in Section 7. A shell particle or bone of unknown origin is found in Section 3, 31 cm.

Core Photo

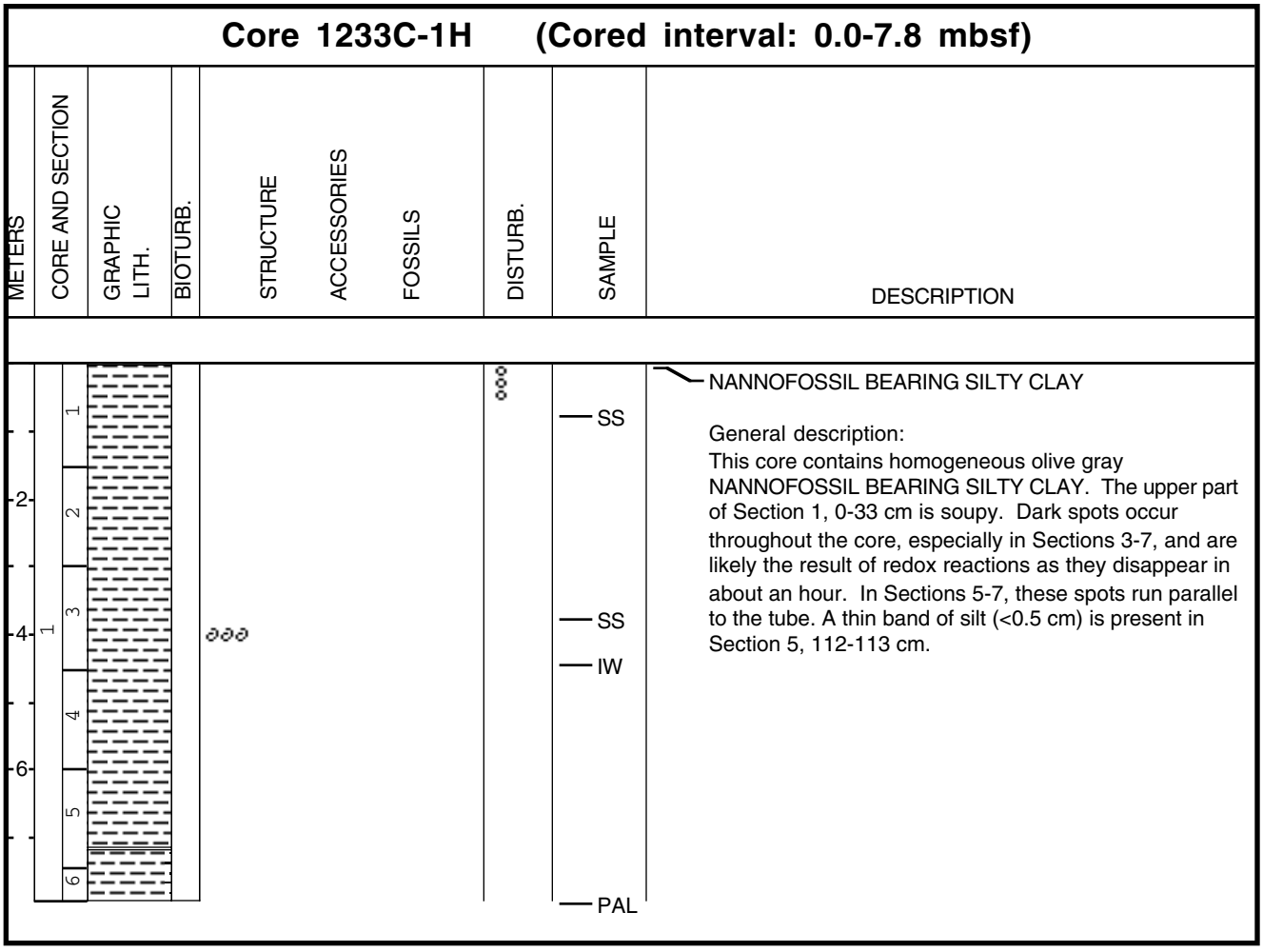

Core 1233B-10H (Cored interval: 90.5-100.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
92
94
96
98
10
1
2
3
4
5
6
CAR
SS
PP
PP
CAR
SS
CAR
PP
IW
CAR
PP
CAR
PP
PP
CAR
PAL
DIATOM NANNOFOSSIL CLAY and
NANNOFOSSIL-BEARING SILTY CLAY
Genral description:
This core contains dark olive gray DIATOM NANNOFOSSIL CLAY and NANNOFOSSIL-BEARING SILTY CLAY. Some areas are slightly bioturbated and a thin layer of silt is present at the base of Section 3. The base of this section is also light gray (~100-136 cm). Section 4 is olive gray and at 102 cm, there is a sharp contact with a change in color to dark gray, but no noticable lithologic changes. Section 5 is dark gray in color, while the sediment in Section 6 exhibits a color transition from olive gray to dark gray at a slightly bioturbated color transition band.

Core Photo

Core 1233B-11H (Cored interval: 100.0-109.5 mbsf)

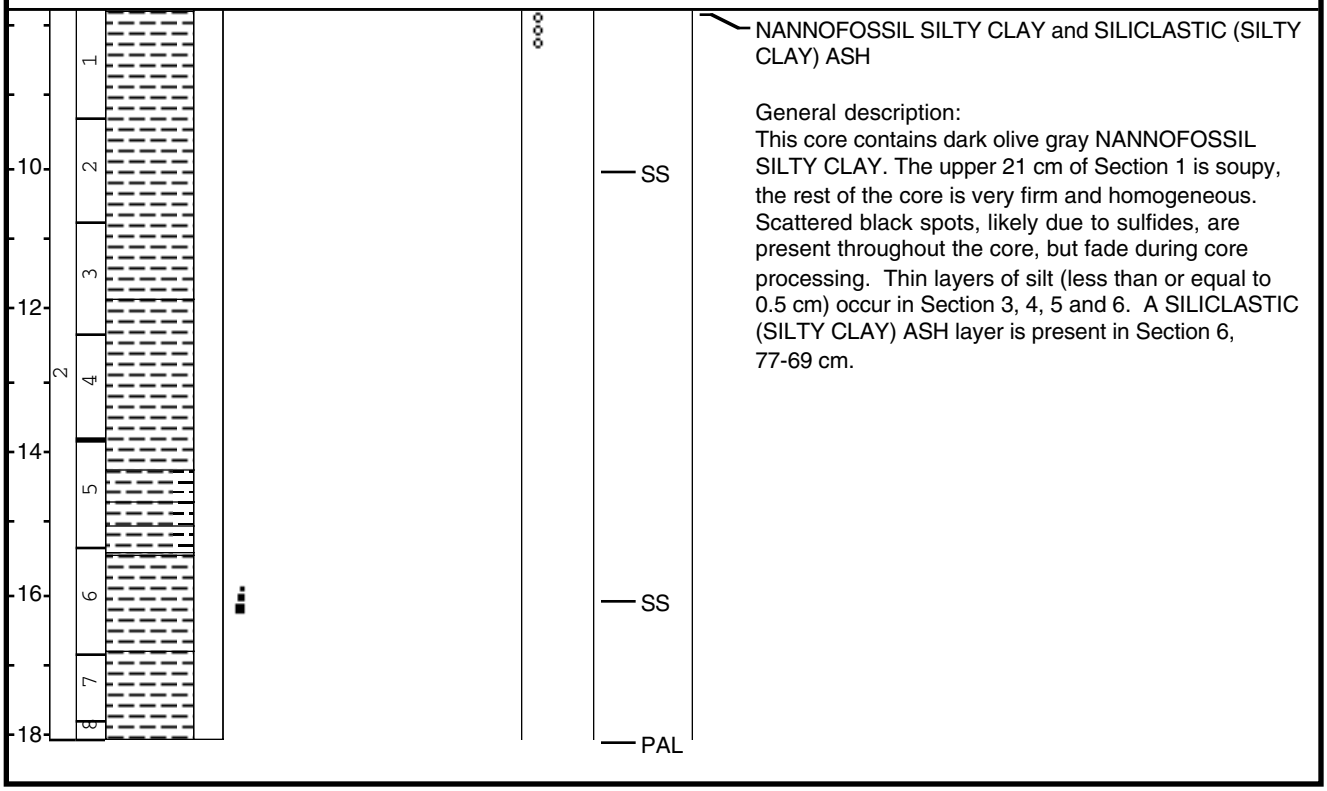
METERS	CORE AND SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
102 104 106 108	11: 1, 2, 3, 4, 5, 6, 7, 8							SS CAR SS PP PP CAR SS PP CAR IW PP CAR CAR PP CAR PP PAL	NANNOFOSSIL-BEARING SILTY CLAY and DIATOM-BEARING SILTY CLAY General description: This core contains olive gray NANNOFOSSIL-BEARING SILTY CLAY and DIATOM-BEARING SILTY CLAY. A thin discontinuous ash layer is present in Section 2, 51 cm. Several thin silt and silty sand layers occur in sections 2 and 5. Scattered black spots appear, most likely due to monosulfides, with decreasing intensity downcore. Shell fragments are present in a number of sections throughout the core. Voids are present in Section 3, 82.5-88 cm and in Section 5, 70-79 cm

Core Photo

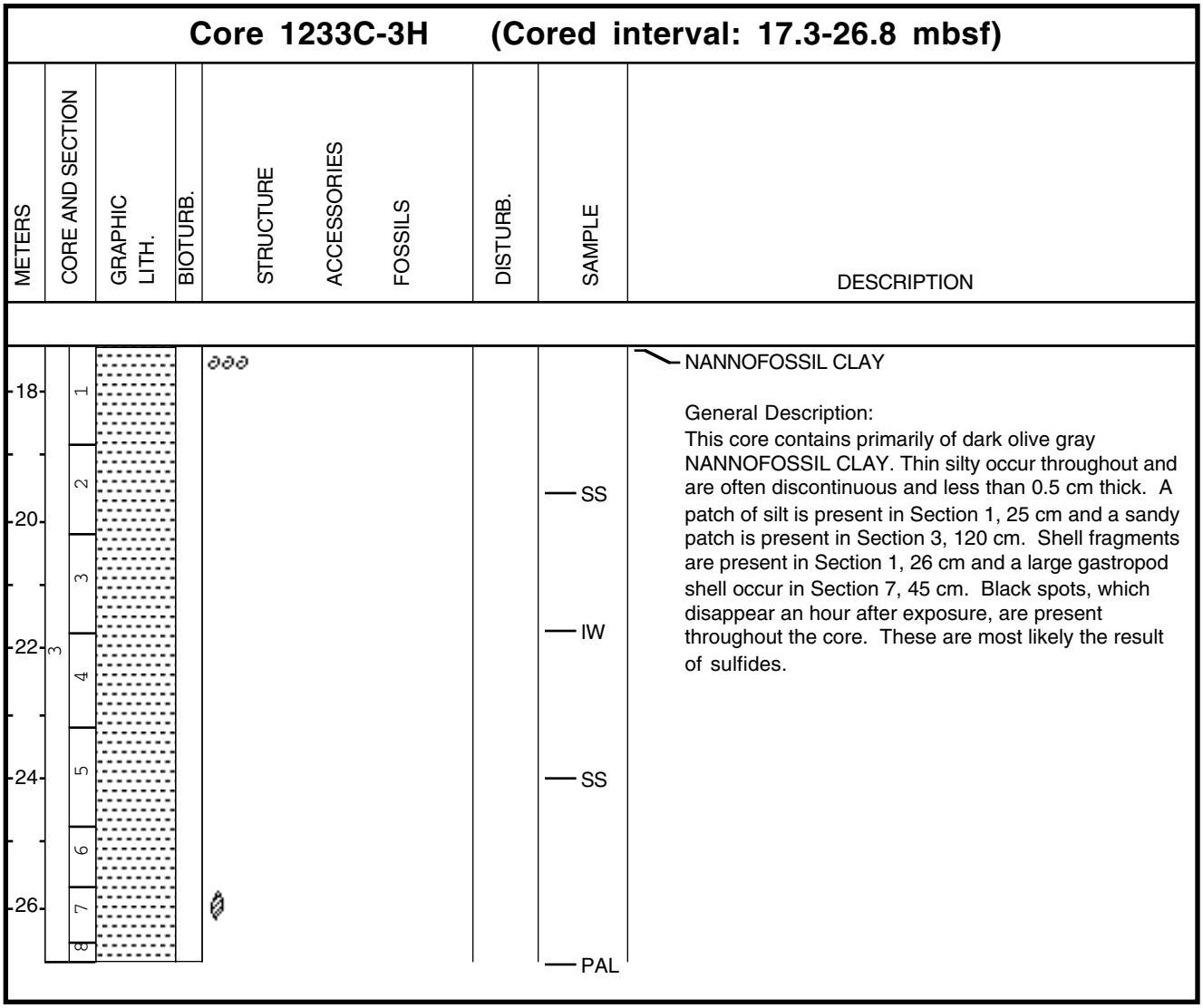

Core 1233C-1H (Cored interval: 0.0-7.8 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
2
4
6
1
2
3
4
5
6
SS
SS
IW
PAL
NANNOFOSSIL BEARING SILTY CLAY
General description:
This core contains homogeneous olive gray NANNOFOSSIL BEARING SILTY CLAY. The upper part of Section 1, 0-33 cm is soupy. Dark spots occur throughout the core, especially in Sections 3-7, and are likely the result of redox reactions as they disappear in about an hour. In Sections 5-7, these spots run parallel to the tube. A thin band of silt (<0.5 cm) is present in Section 5, 112-113 cm.

Core Photo

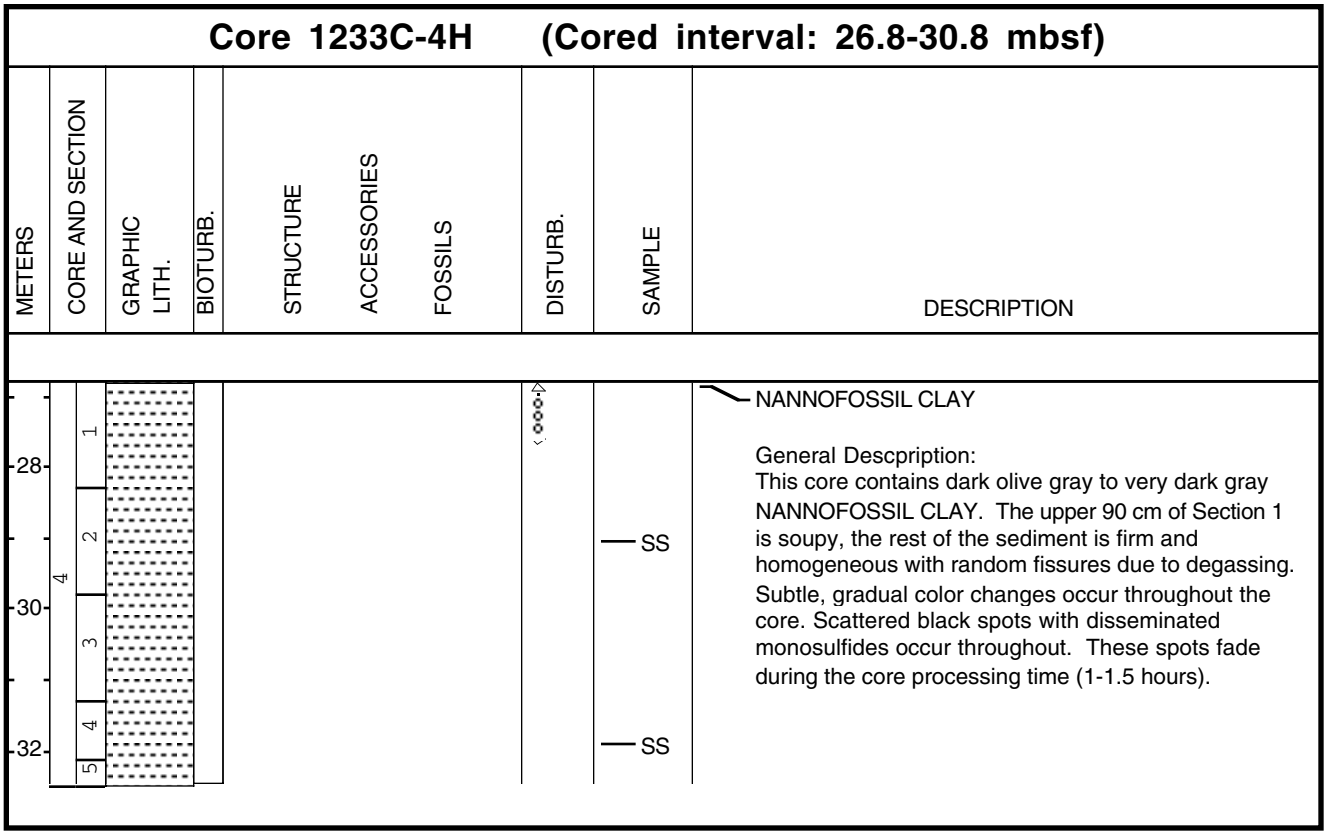
Core 1233C-2H (Cored interval: 7.8-17.3 mbsf)



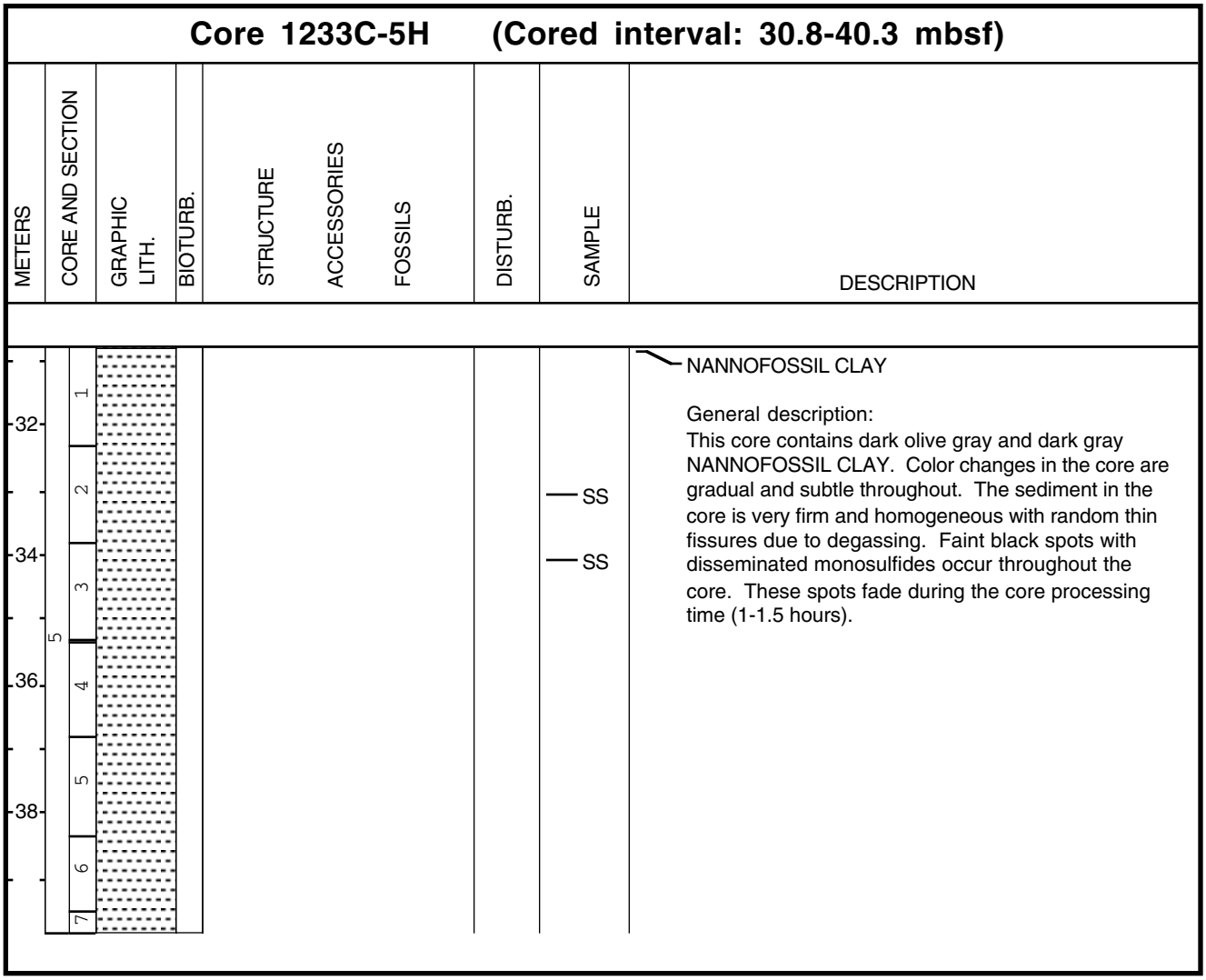
Core Photo


Core 1233C-3H (Cored interval: 17.3-26.8 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
18
20
22
24
26
3
1
2
3
4
5
6
7
8
SS
IW
SS
PAL
NANNOFOSSIL CLAY
General Description:
This core contains primarily of dark olive gray NANNOFOSSIL CLAY. Thin silty occur throughout and are often discontinuous and less than 0.5 cm thick. A patch of silt is present in Section 1, 25 cm and a sandy patch is present in Section 3, 120 cm. Shell fragments are present in Section 1, 26 cm and a large gastropod shell occur in Section 7, 45 cm. Black spots, which disappear an hour after exposure, are present throughout the core. These are most likely the result of sulfides.

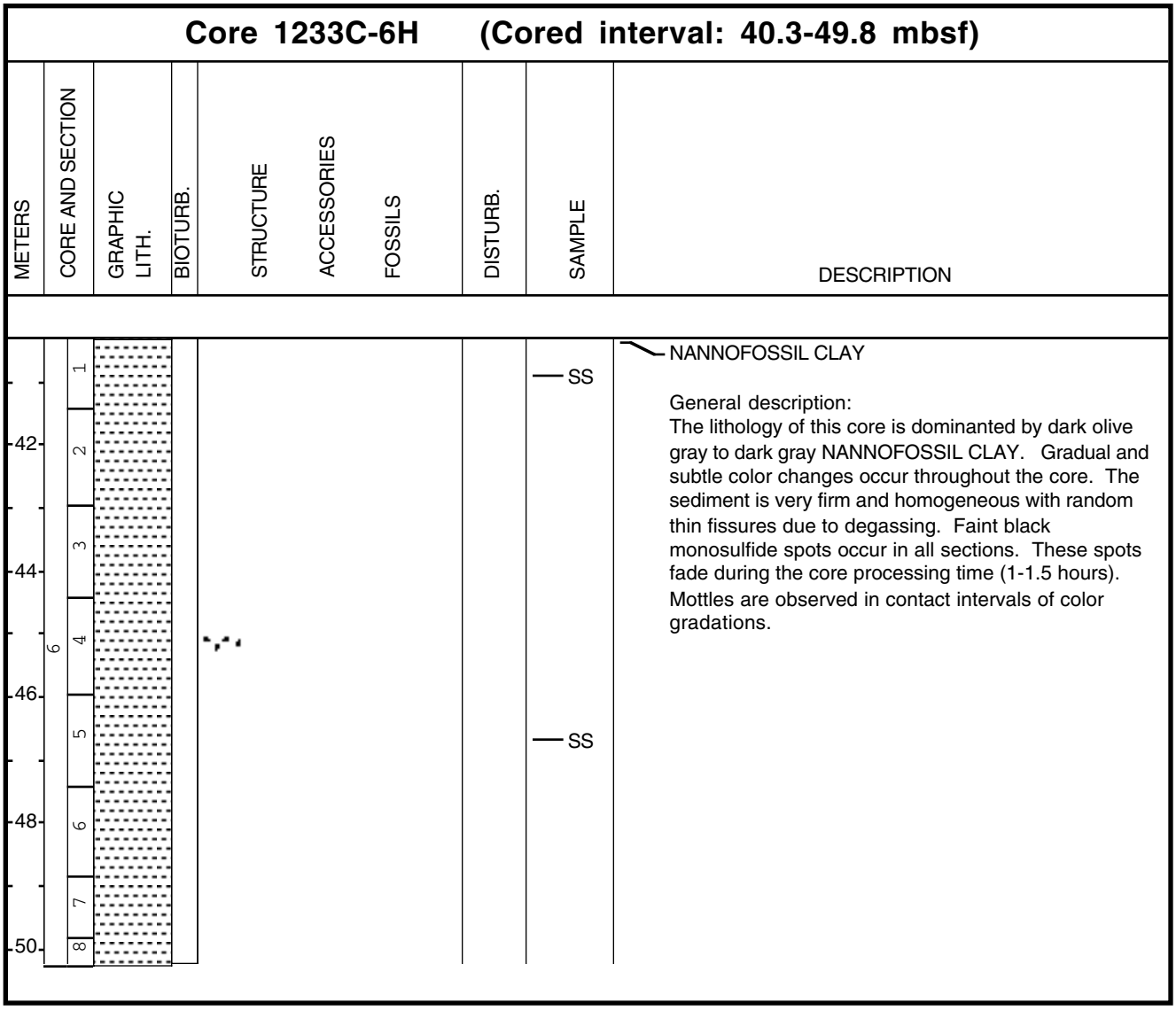
Core Photo


Core 1233C-4H (Cored interval: 26.8-30.8 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
28
30
32
4
1
2
3
4
5
SS
SS
NANNOFOSSIL CLAY
General Descpription:
This core contains dark olive gray to very dark gray NANNOFOSSIL CLAY. The upper 90 cm of Section 1 is soupy, the rest of the sediment is firm and homogeneous with random fissures due to degassing. Subtle, gradual color changes occur throughout the core. Scattered black spots with disseminated monosulfides occur throughout. These spots fade during the core processing time (1-1.5 hours).

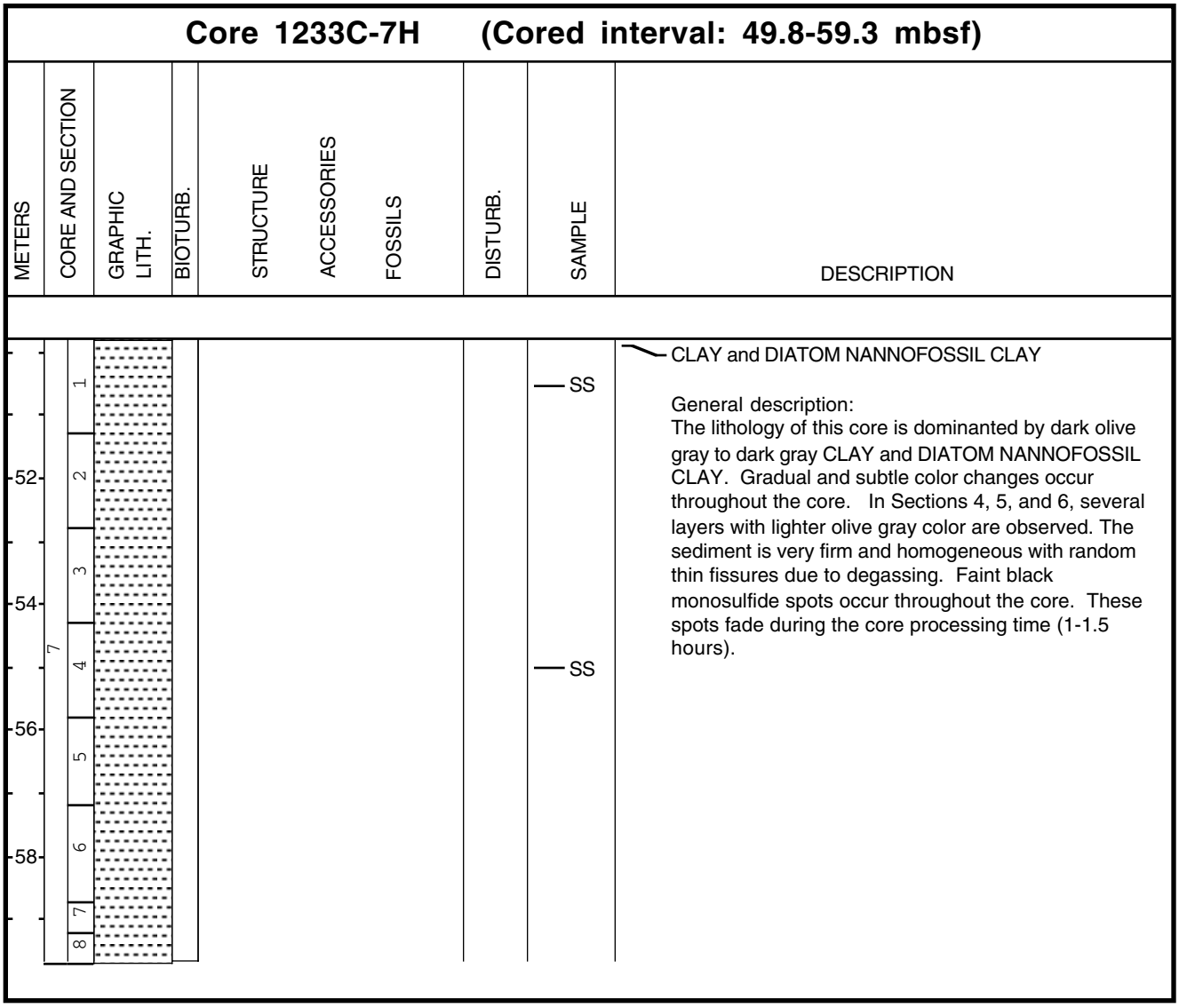
Core Photo


Core 1233C-5H (Cored interval: 30.8-40.3 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
32
34
36
38
5
1
2
3
4
5
6
7
SS
SS
NANNOFOSSIL CLAY
General description:
This core contains dark olive gray and dark gray NANNOFOSSIL CLAY. Color changes in the core are gradual and subtle throughout. The sediment in the core is very firm and homogeneous with random thin fissures due to degassing. Faint black spots with disseminated monosulfides occur throughout the core. These spots fade during the core processing time (1-1.5 hours).

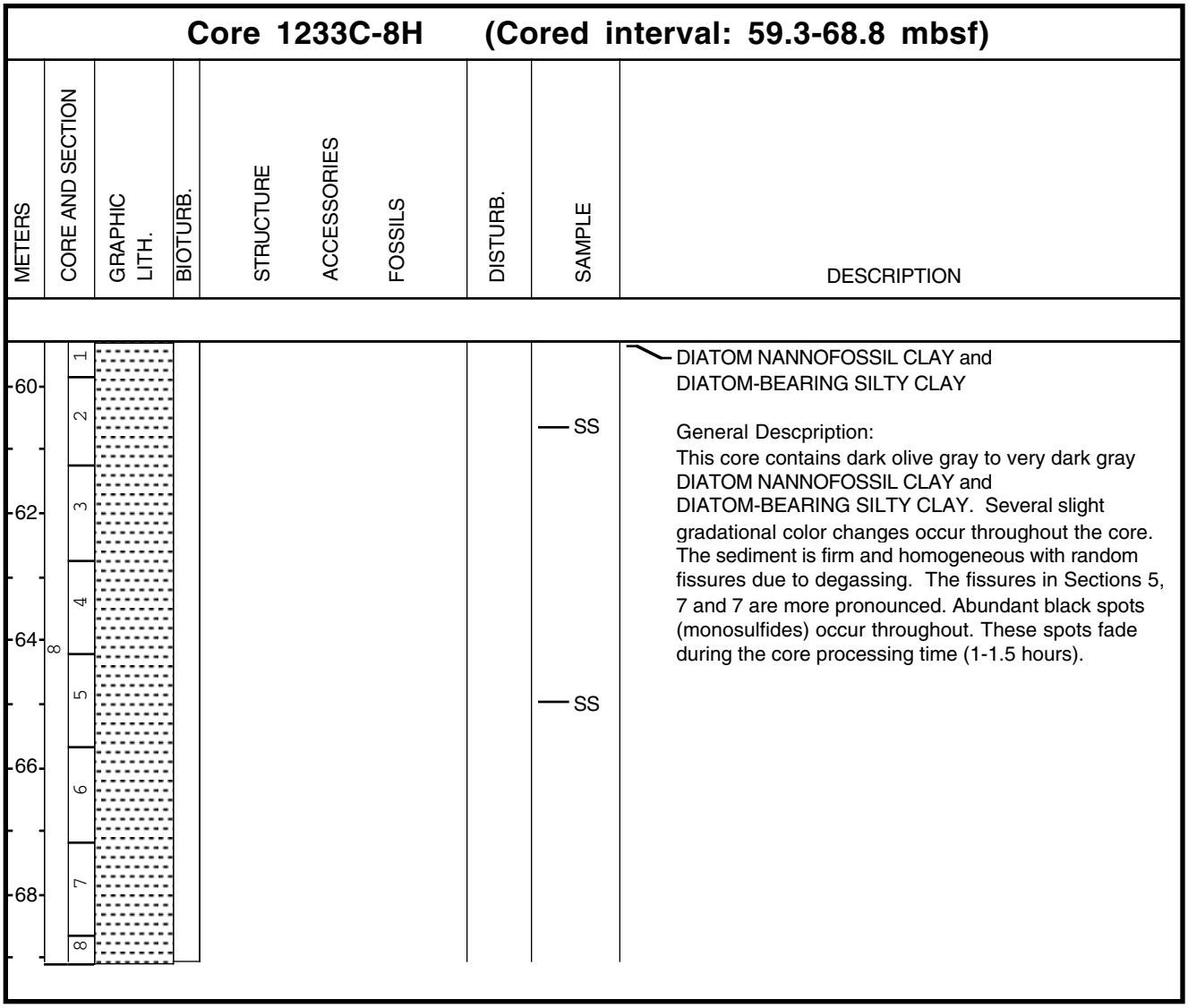
Core Photo


Core 1233C-6H (Cored interval: 40.3-49.8 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
42
44
46
48
50
6
1
2
3
4
5
6
7
8
SS
SS
NANNOFOSSIL CLAY
General description:
The lithology of this core is dominanted by dark olive gray to dark gray NANNOFOSSIL CLAY. Gradual and subtle color changes occur throughout the core. The sediment is very firm and homogeneous with random thin fissures due to degassing. Faint black monosulfide spots occur in all sections. These spots fade during the core processing time (1-1.5 hours). Mottles are observed in contact intervals of color gradations.

Core Photo


Core 1233C-7H (Cored interval: 49.8-59.3 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
52
54
56
58
7
1
2
3
4
5
6
7
8
SS
SS
CLAY and DIATOM NANNOFOSSIL CLAY
General description:
The lithology of this core is dominanted by dark olive gray to dark gray CLAY and DIATOM NANNOFOSSIL CLAY. Gradual and subtle color changes occur throughout the core. In Sections 4, 5, and 6, several layers with lighter olive gray color are observed. The sediment is very firm and homogeneous with random thin fissures due to degassing. Faint black monosulfide spots occur throughout the core. These spots fade during the core processing time (1-1.5 hours).

Core Photo


Core 1233C-8H (Cored interval: 59.3-68.8 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
60
62
64
66
68
8
1
2
3
4
5
6
7
8
SS
SS
DIATOM NANNOFOSSIL CLAY and
DIATOM-BEARING SILTY CLAY
General Descpription:
This core contains dark olive gray to very dark gray DIATOM NANNOFOSSIL CLAY and DIATOM-BEARING SILTY CLAY. Several slight gradational color changes occur throughout the core. The sediment is firm and homogeneous with random fissures due to degassing. The fissures in Sections 5, 7 and 7 are more pronounced. Abundant black spots (monosulfides) occur throughout. These spots fade during the core processing time (1-1.5 hours).

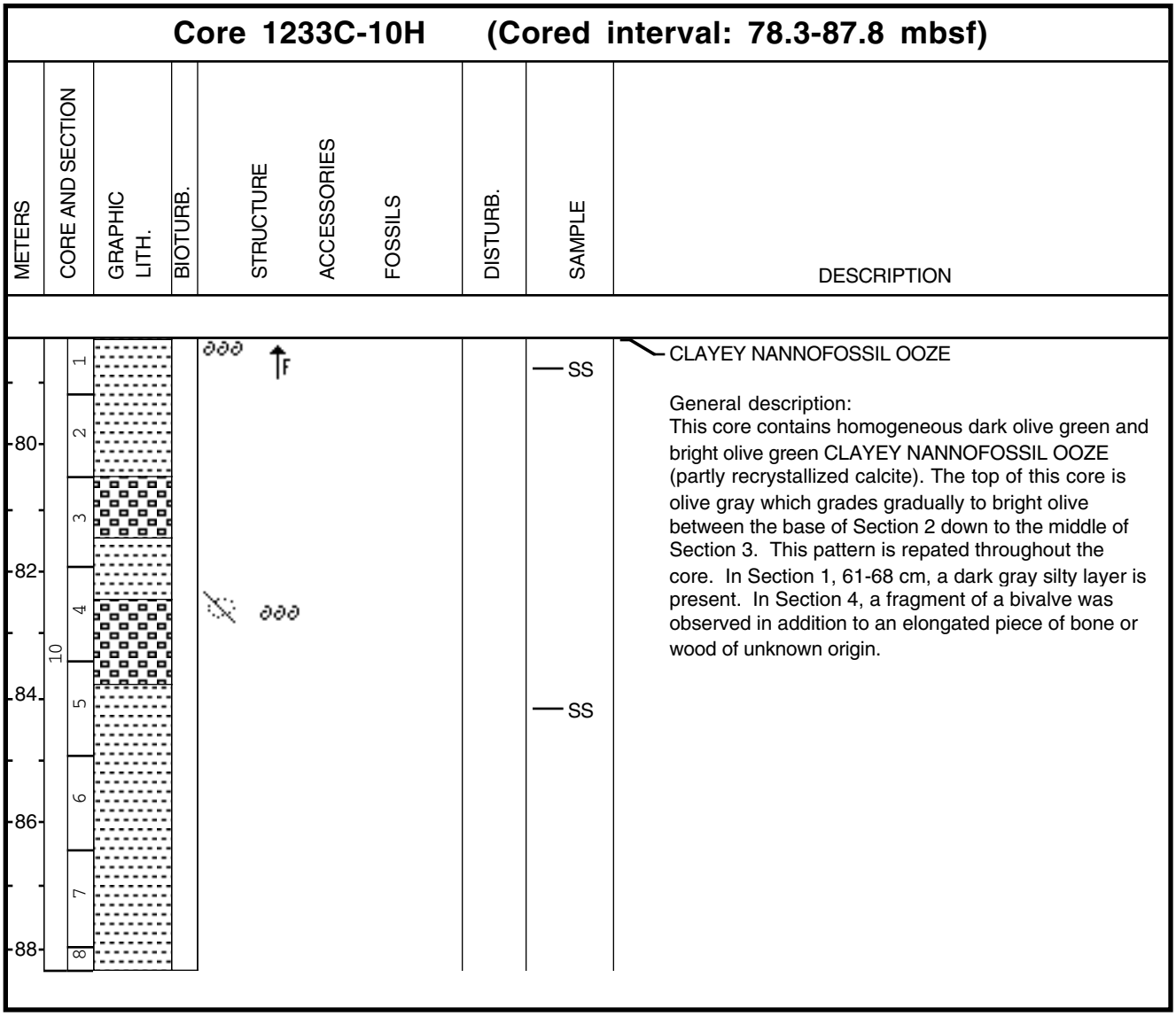
Core Photo

Core 1233C-9H (Cored interval: 68.8-78.3 mbsf)

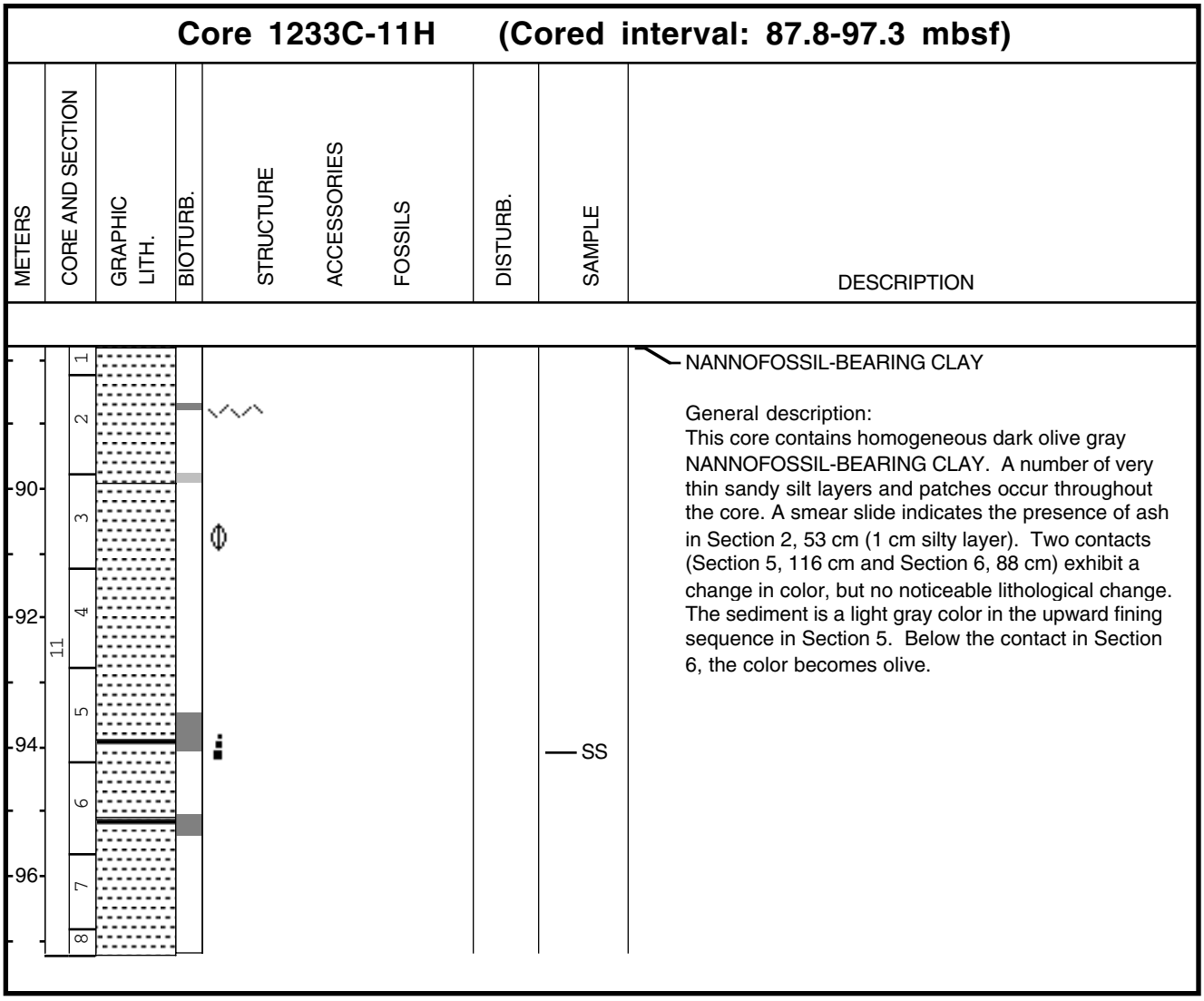
METERS	CORE AND SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
70 72 74 76 78	9 (1, 2, 3, 4, 5, 6, 7, 8)				Py				DIATOM NANNOFOSSIL CLAY General description: This core contains homogeneous dark olive gray DIATOM NANNOFOSSIL CLAY. A darker olive gray is present in Section 1, 45-65 cm. In Section 2, 41 cm a pyritized burrow case is present. An upward fining SILTY SAND layer with a disturbed base and a dark gray top is present in Section 5, 118-145 cm. Dark and light olive mottles are present in Section 6. Shell fragments are present in Section 1, 69 cm and Section 7, 55 cm.

Core Photo

Core 1233C-10H (Cored interval: 78.3-87.8 mbsf)

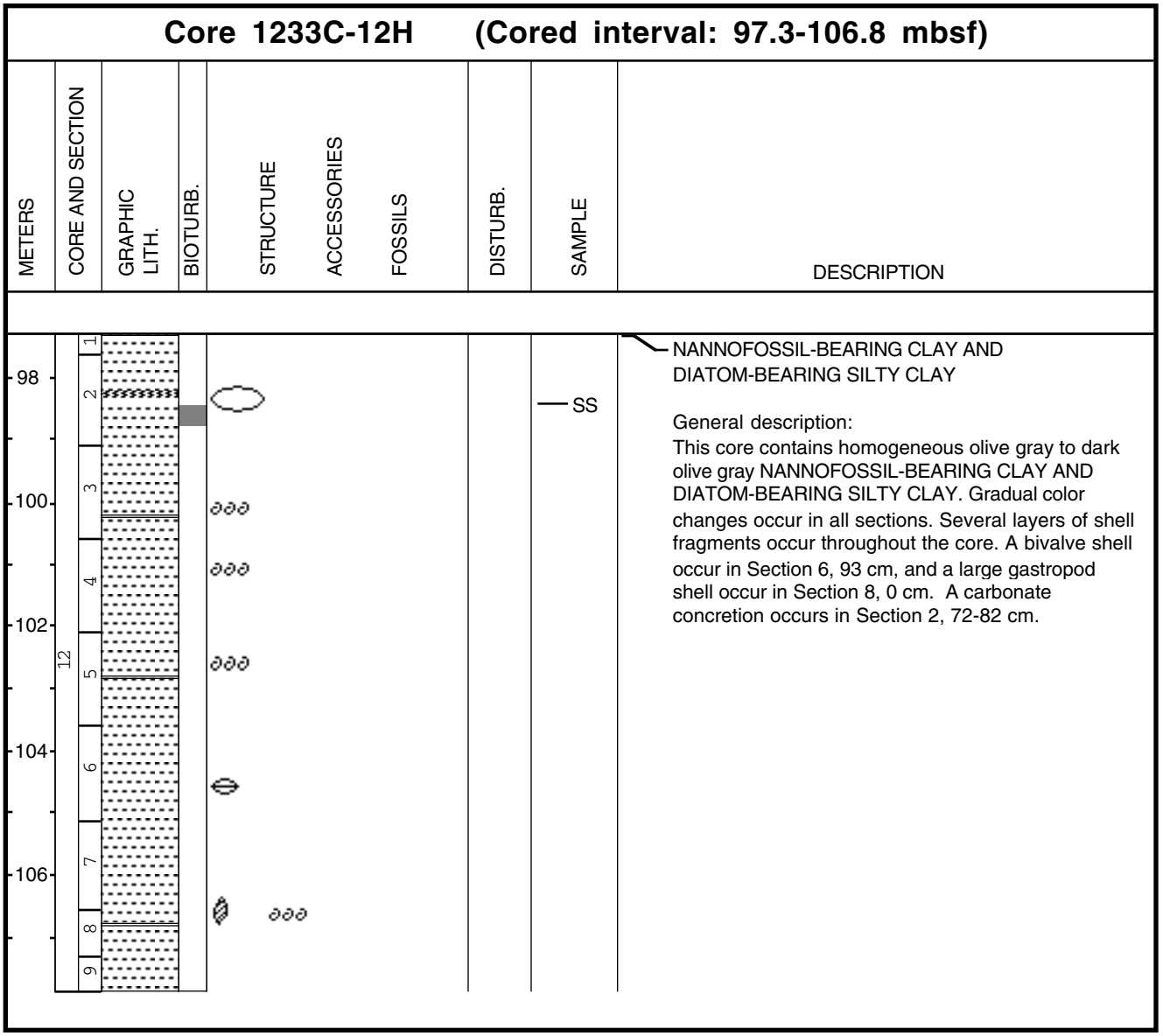


Core Photo

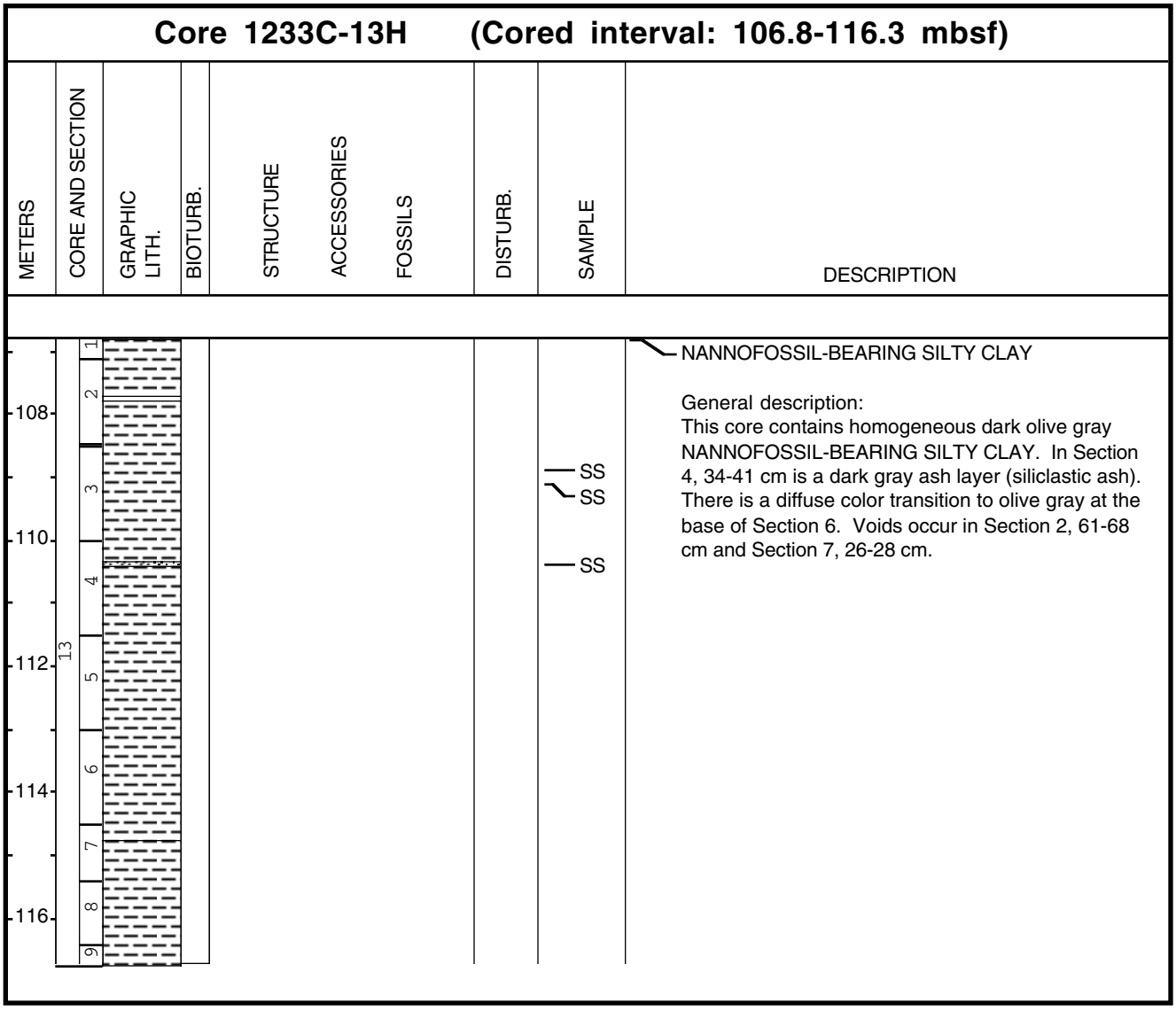

Core 1233C-11H (Cored interval: 87.8-97.3 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
90
92
94
96
11
1
2
3
4
5
6
7
8
SS
NANNOFOSSIL-BEARING CLAY
General description:
This core contains homogeneous dark olive gray NANNOFOSSIL-BEARING CLAY. A number of very thin sandy silt layers and patches occur throughout the core. A smear slide indicates the presence of ash in Section 2, 53 cm (1 cm silty layer). Two contacts (Section 5, 116 cm and Section 6, 88 cm) exhibit a change in color, but no noticeable lithological change. The sediment is a light gray color in the upward fining sequence in Section 5. Below the contact in Section 6, the color becomes olive.

Core Photo

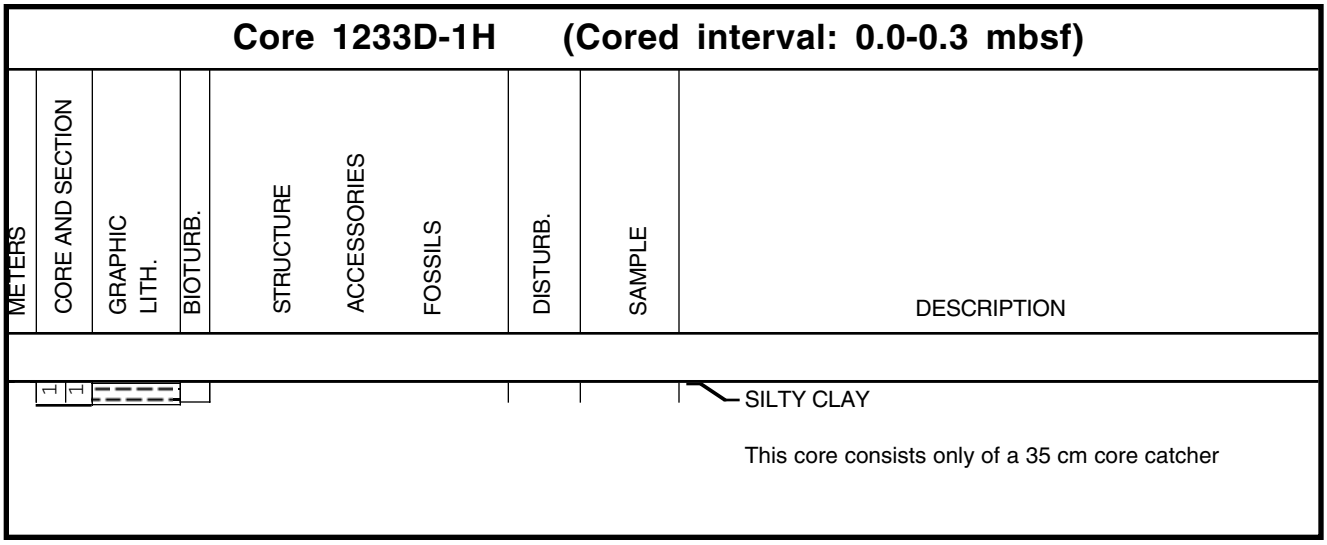
Core 1233C-12H (Cored interval: 97.3-106.8 mbsf)



Core Photo


Core 1233C-13H (Cored interval: 106.8-116.3 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
108
110
112
114
116
13
1
2
3
4
5
6
7
8
9
SS
SS
SS
NANNOFOSSIL-BEARING SILTY CLAY
General description:
This core contains homogeneous dark olive gray NANNOFOSSIL-BEARING SILTY CLAY. In Section 4, 34-41 cm is a dark gray ash layer (siliclastic ash). There is a diffuse color transition to olive gray at the base of Section 6. Voids occur in Section 2, 61-68 cm and Section 7, 26-28 cm.

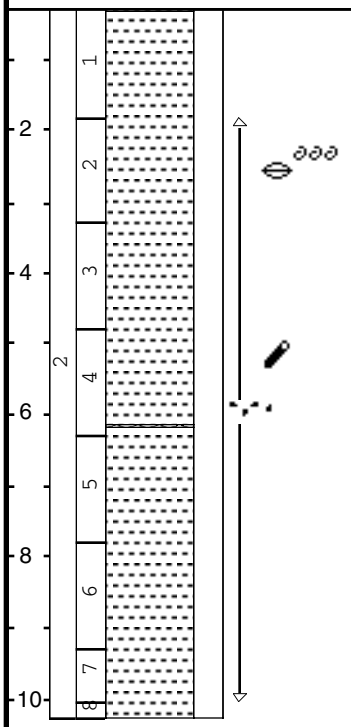
Core Photo


Core 1233D-1H (Cored interval: 0.0-0.3 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
1
1
SILTY CLAY
This core consists only of a 35 cm core catcher

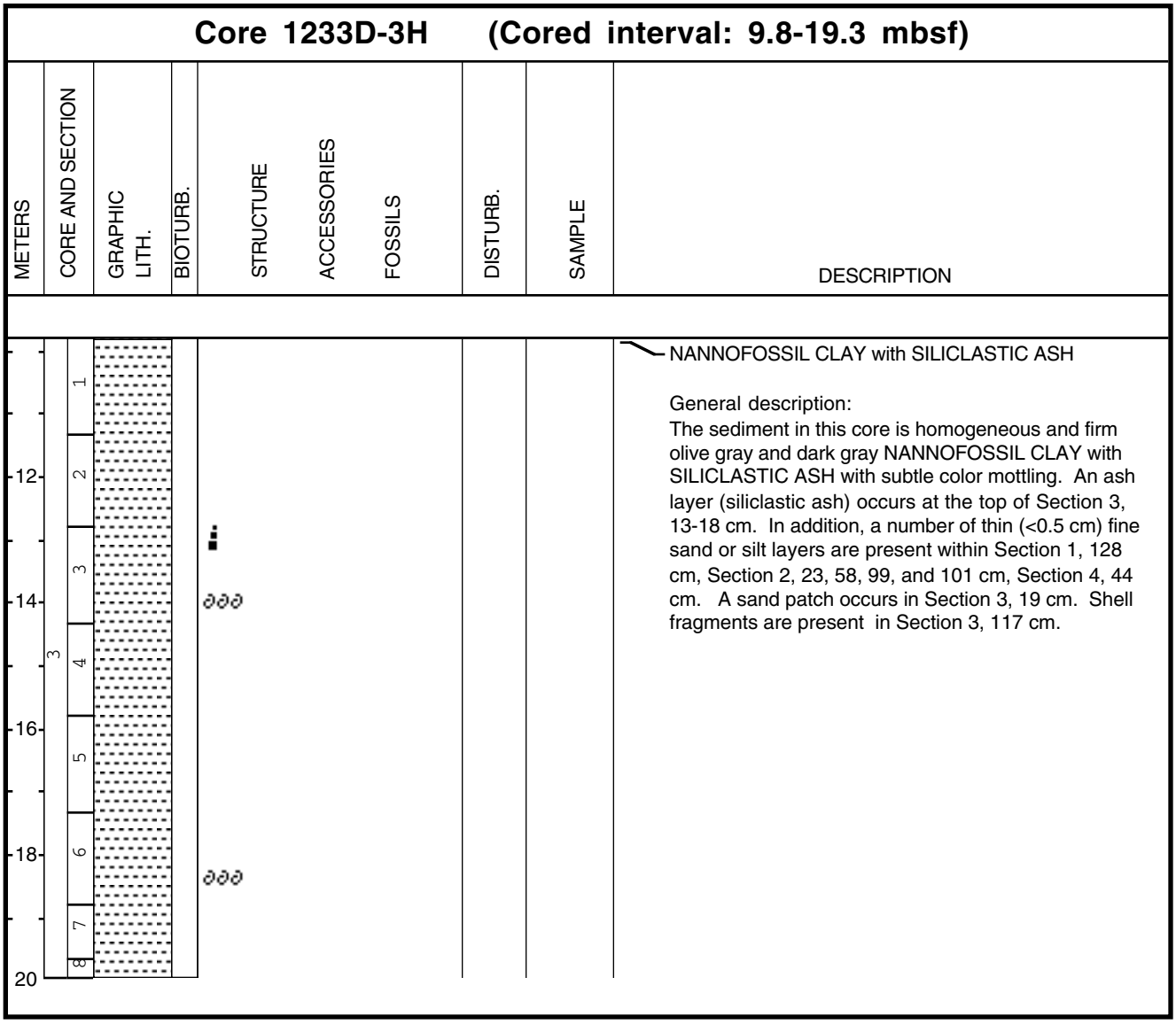
Core Photo

Core 1233D-2H (Cored interval: 0.3-9.8 mbsf)

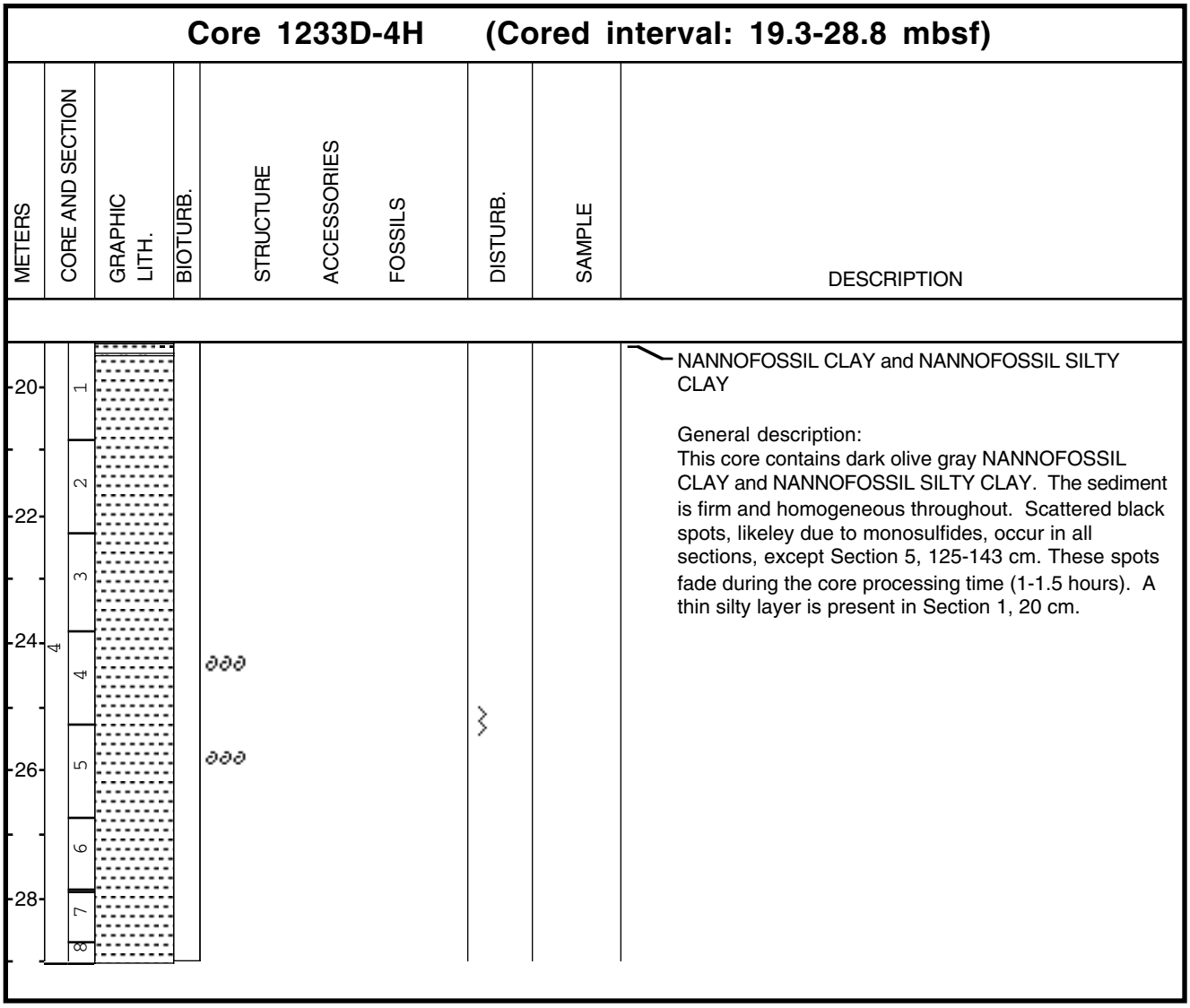
METERS	CORE AND SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
2 4 6 8 10	2 (1, 2, 3, 4, 5, 6, 7, 8)								NANNOFOSSIL-BEARING CLAY and NANNOFOSSIL CLAY General description: This core contains firm and homogeneous light olive gray NANNOFOSSIL-BEARING CLAY and NANNOFOSSIL CLAY. Color mottling between light olive gray and a dark olive gray occurs from Section 2 and downcore. A bivalve is present in Section 2, 72 cm. A 0.5 cm silt layer occur near the base of Section 4.



Core Photo


Core 1233D-3H (Cored interval: 9.8-19.3 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
12
14
16
18
20
3
1
2
3
4
5
6
7
8
NANNOFOSSIL CLAY with SILICLASTIC ASH
General description:
The sediment in this core is homogeneous and firm olive gray and dark gray NANNOFOSSIL CLAY with SILICLASTIC ASH with subtle color mottling. An ash layer (siliclastic ash) occurs at the top of Section 3, 13-18 cm. In addition, a number of thin (<0.5 cm) fine sand or silt layers are present within Section 1, 128 cm, Section 2, 23, 58, 99, and 101 cm, Section 4, 44 cm. A sand patch occurs in Section 3, 19 cm. Shell fragments are present in Section 3, 117 cm.

Core Photo

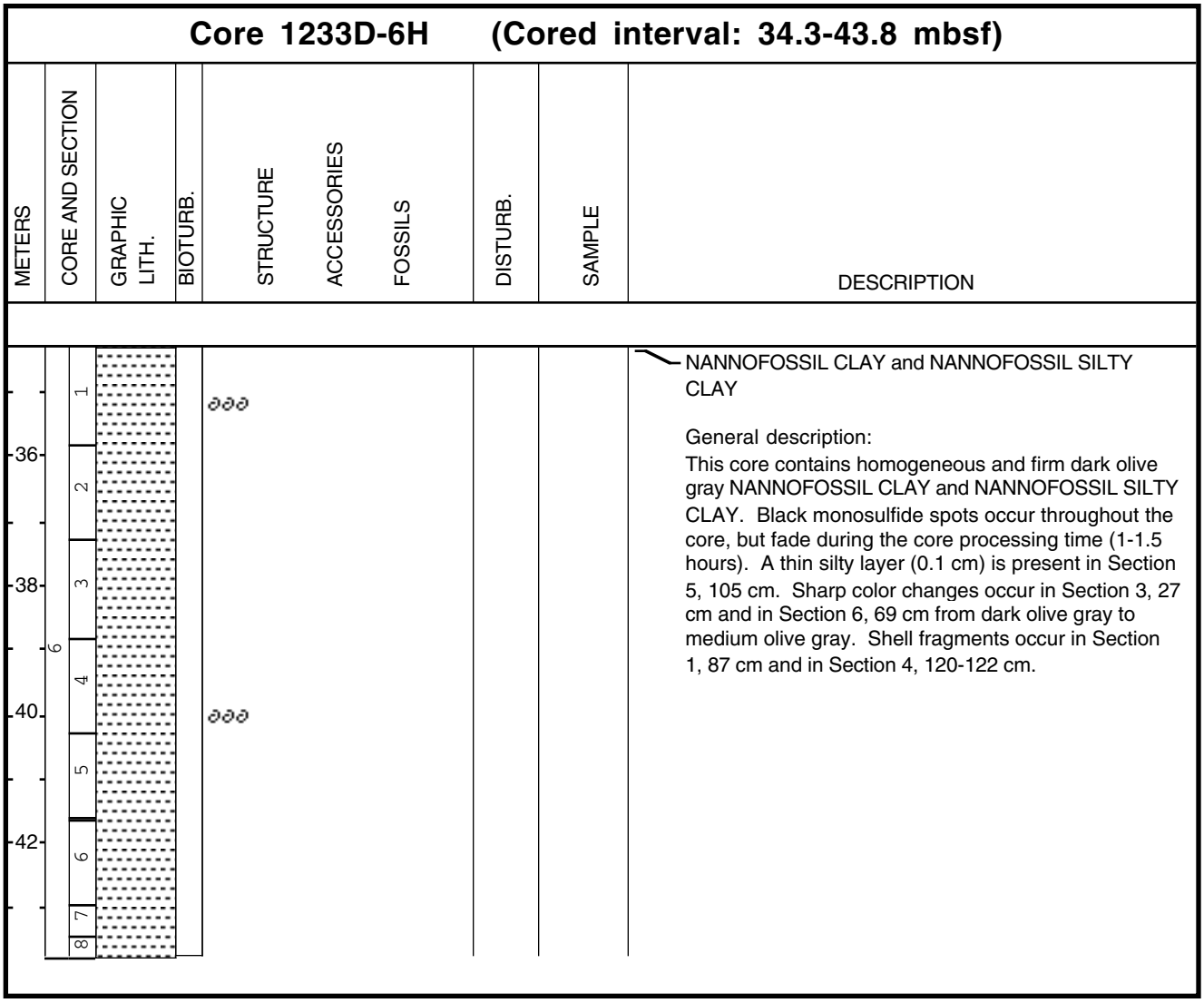

Core 1233D-4H (Cored interval: 19.3-28.8 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
20
22
24
26
28
4
1
2
3
4
5
6
7
8
NANNOFOSSIL CLAY and NANNOFOSSIL SILTY CLAY
General description:
This core contains dark olive gray NANNOFOSSIL CLAY and NANNOFOSSIL SILTY CLAY. The sediment is firm and homogeneous throughout. Scattered black spots, likeley due to monosulfides, occur in all sections, except Section 5, 125-143 cm. These spots fade during the core processing time (1-1.5 hours). A thin silty layer is present in Section 1, 20 cm.

Core Photo

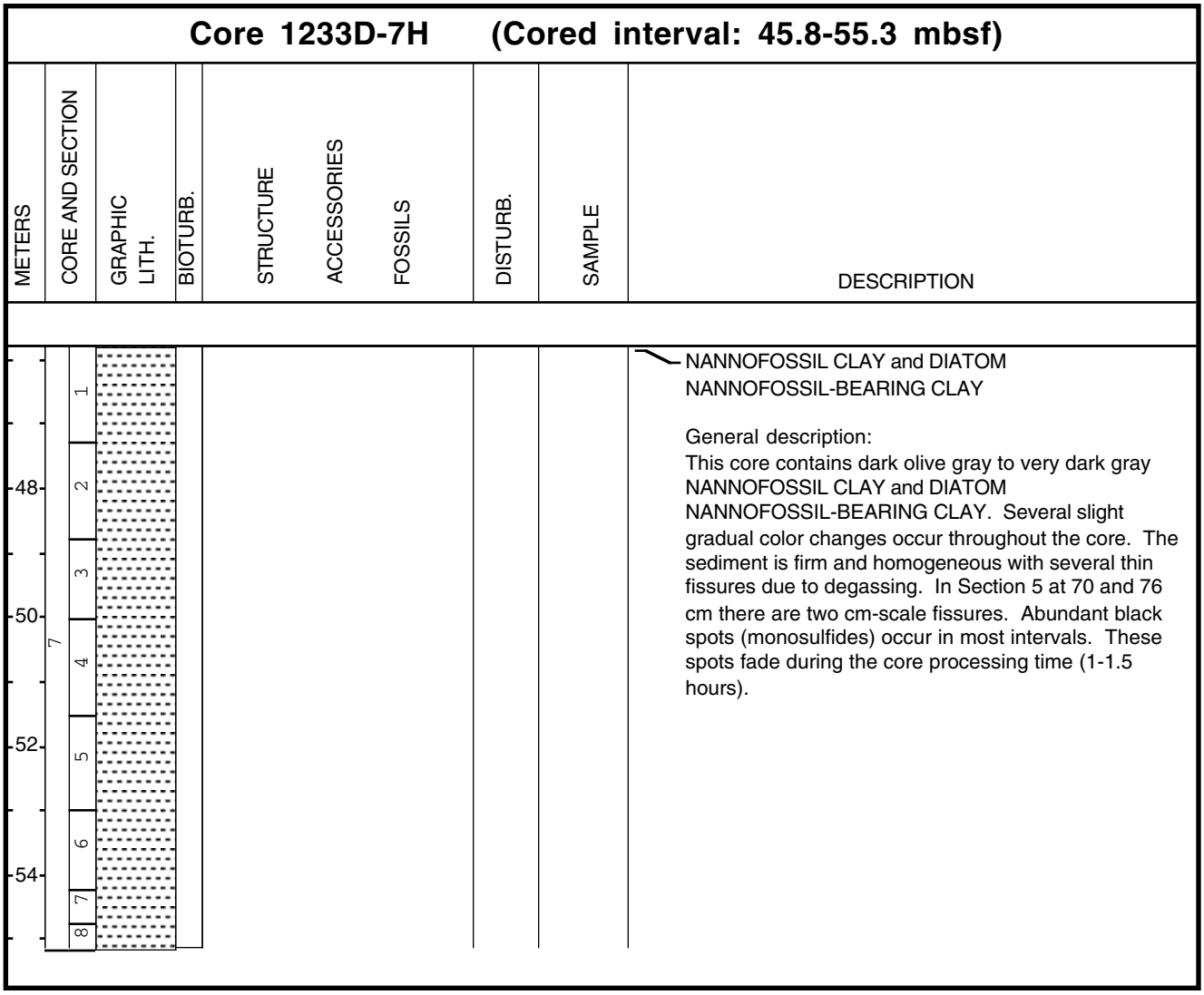
Core 1233D-5H (Cored interval: 28.8-34.3 mbsf)

METERS	CORE AND SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
30 32 34 36	5: 1, 2, 3, 4, 5, 6, 7								NANNOFOSSIL CLAY and NANNOFOSSIL SILTY CLAY General description: This core contains dark olive gray NANNOFOSSIL CLAY and NANNOFOSSIL SILTY CLAY. Section 1 and Section 2 down 19 cm are soupy, the rest of the core is firm and homogeneous. Scattered black monosulfide spots occur throughout. Intervals containing shell fragments are present in Section 2, 44 cm and Section 3, 45 and 120 cm.

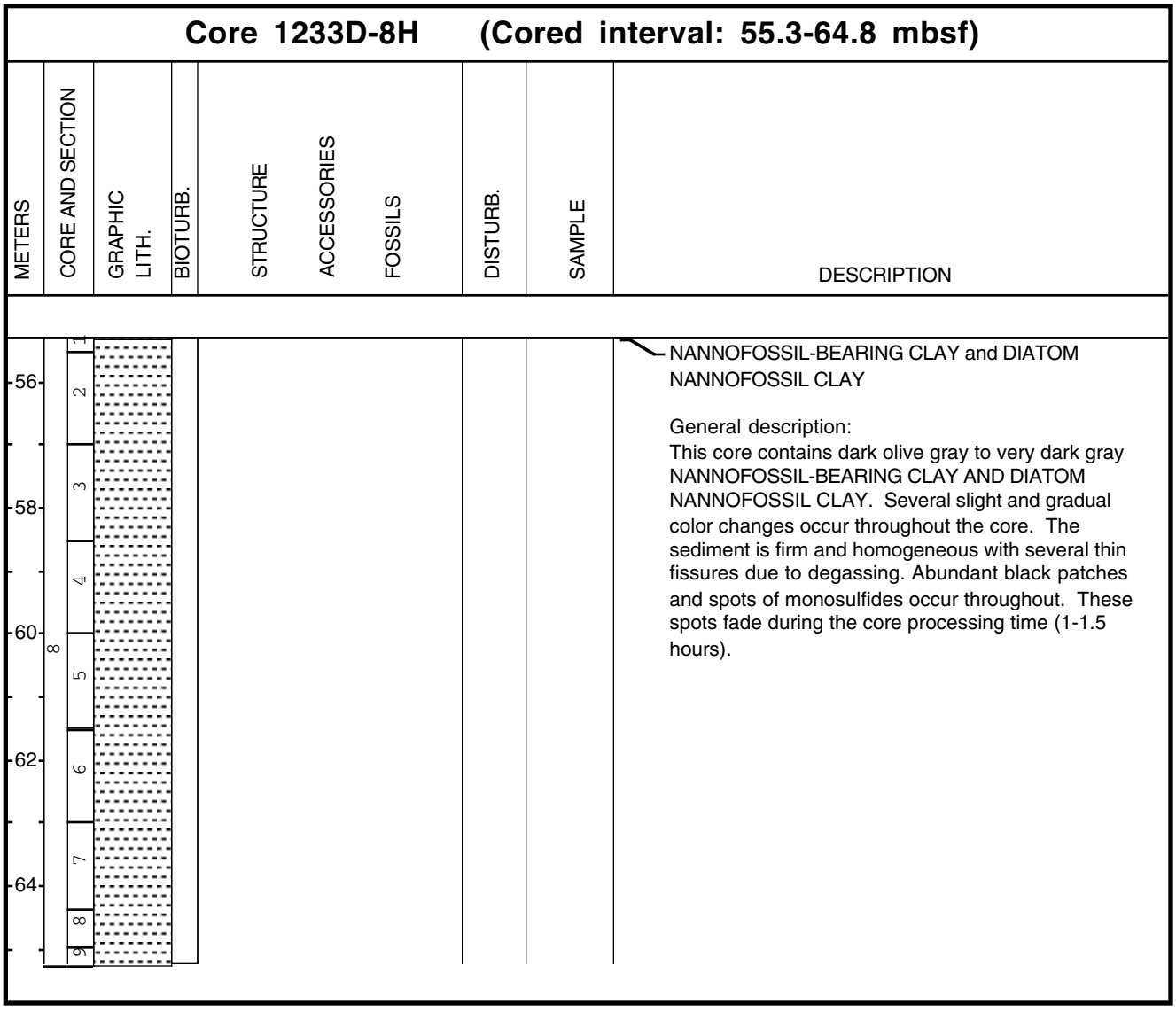
Core Photo


Core 1233D-6H (Cored interval: 34.3-43.8 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
36
38
40
42
6
1
2
3
4
5
6
7
8
NANNOFOSSIL CLAY and NANNOFOSSIL SILTY CLAY
General description:
This core contains homogeneous and firm dark olive gray NANNOFOSSIL CLAY and NANNOFOSSIL SILTY CLAY. Black monosulfide spots occur throughout the core, but fade during the core processing time (1-1.5 hours). A thin silty layer (0.1 cm) is present in Section 5, 105 cm. Sharp color changes occur in Section 3, 27 cm and in Section 6, 69 cm from dark olive gray to medium olive gray. Shell fragments occur in Section 1, 87 cm and in Section 4, 120-122 cm.

Core Photo


Core 1233D-7H (Cored interval: 45.8-55.3 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
48
50
52
54
7
1
2
3
4
5
6
7
8
NANNOFOSSIL CLAY and DIATOM NANNOFOSSIL-BEARING CLAY
General description:
This core contains dark olive gray to very dark gray NANNOFOSSIL CLAY and DIATOM NANNOFOSSIL-BEARING CLAY. Several slight gradual color changes occur throughout the core. The sediment is firm and homogeneous with several thin fissures due to degassing. In Section 5 at 70 and 76 cm there are two cm-scale fissures. Abundant black spots (monosulfides) occur in most intervals. These spots fade during the core processing time (1-1.5 hours).

Core Photo

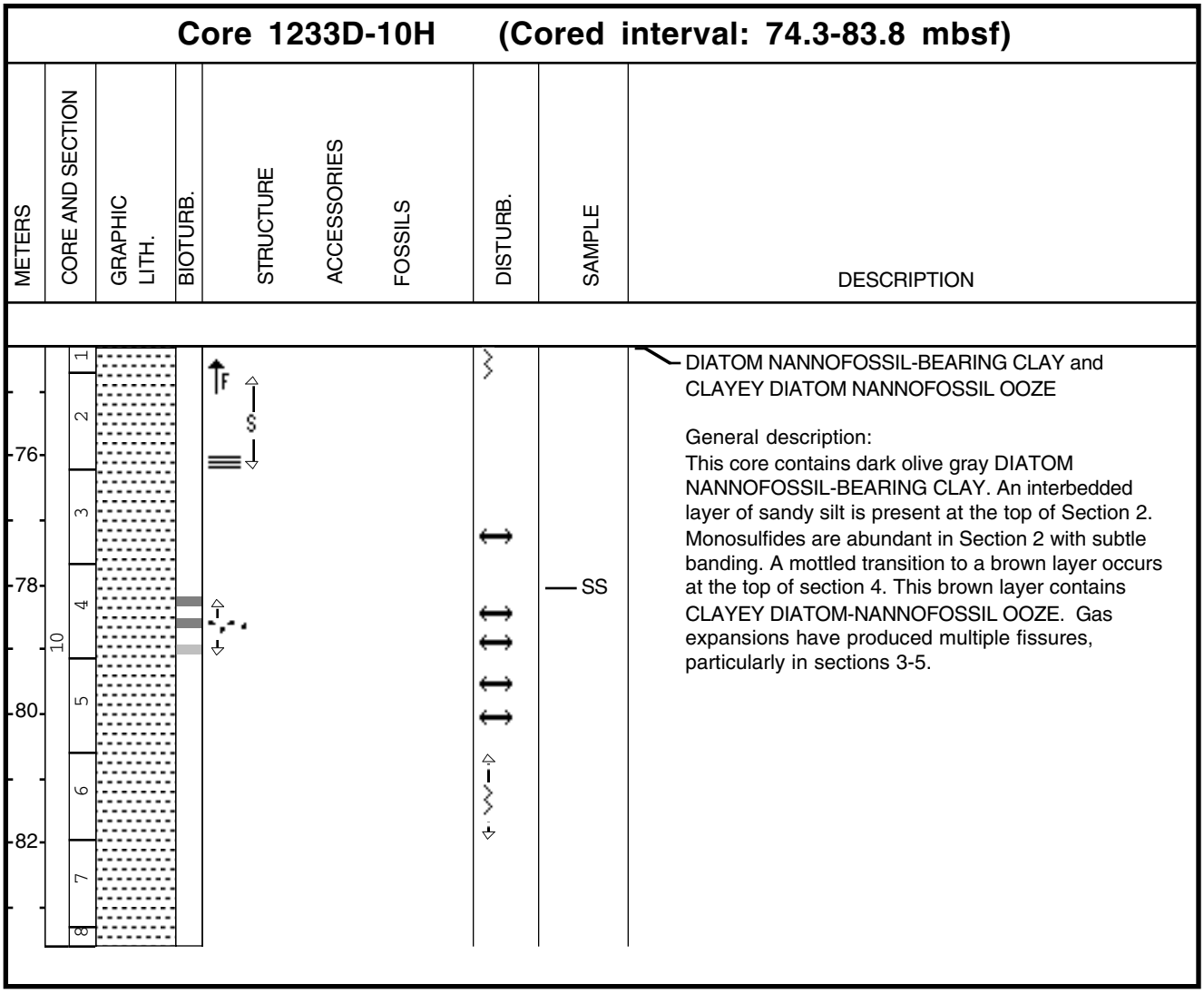

Core 1233D-8H (Cored interval: 55.3-64.8 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
56
58
60
62
64
8
1
2
3
4
5
6
7
8
9
NANNOFOSSIL-BEARING CLAY and DIATOM NANNOFOSSIL CLAY
General description:
This core contains dark olive gray to very dark gray NANNOFOSSIL-BEARING CLAY AND DIATOM NANNOFOSSIL CLAY. Several slight and gradual color changes occur throughout the core. The sediment is firm and homogeneous with several thin fissures due to degassing. Abundant black patches and spots of monosulfides occur throughout. These spots fade during the core processing time (1-1.5 hours).

Core Photo

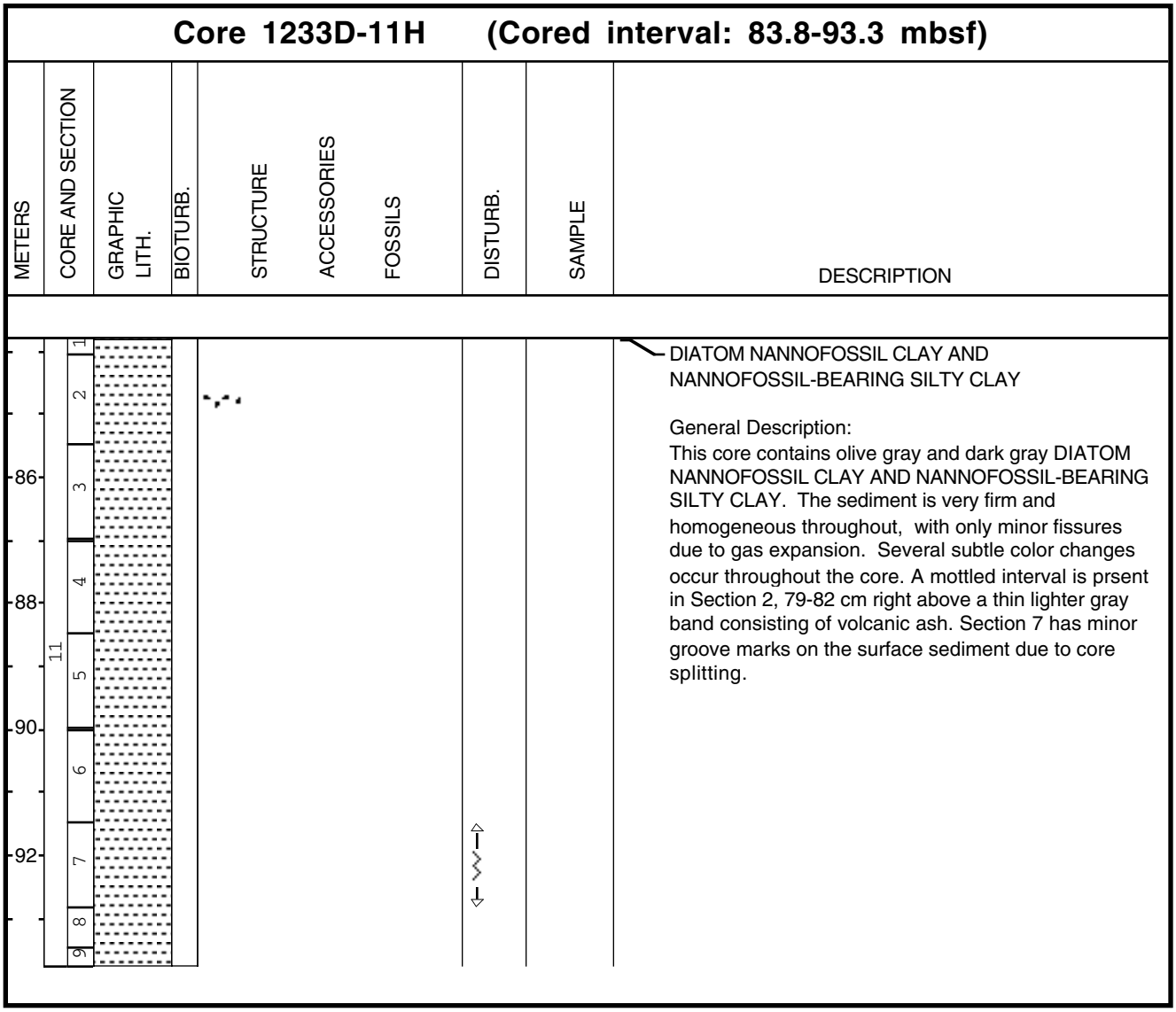
Core 1233D-9H (Cored interval: 64.8-74.3 mbsf)

METERS	CORE AND SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
66 68 70 72	9 1 2 3 4 5 6 7 8 9								NANNOFOSSIL CLAY, DIATOM NANNOFOSSIL CLAY AND NANNOFOSSIL-BEARING SILTY CLAY General description: This core contains olive gray to gray NANNOFOSSIL CLAY, DIATOM NANNOFOSSIL CLAY AND NANNOFOSSIL-BEARING SILTY CLAY. Subtle, gradual color changes occur throughout the core, with light gray color banding in Section 5, 35-60 cm and Section 6, 68-86 cm. The sediment is very firm and homogeneous, but gas expansion has produced multiple thin fissures in every section. A few black spots of monosulfides occur in most intervals.

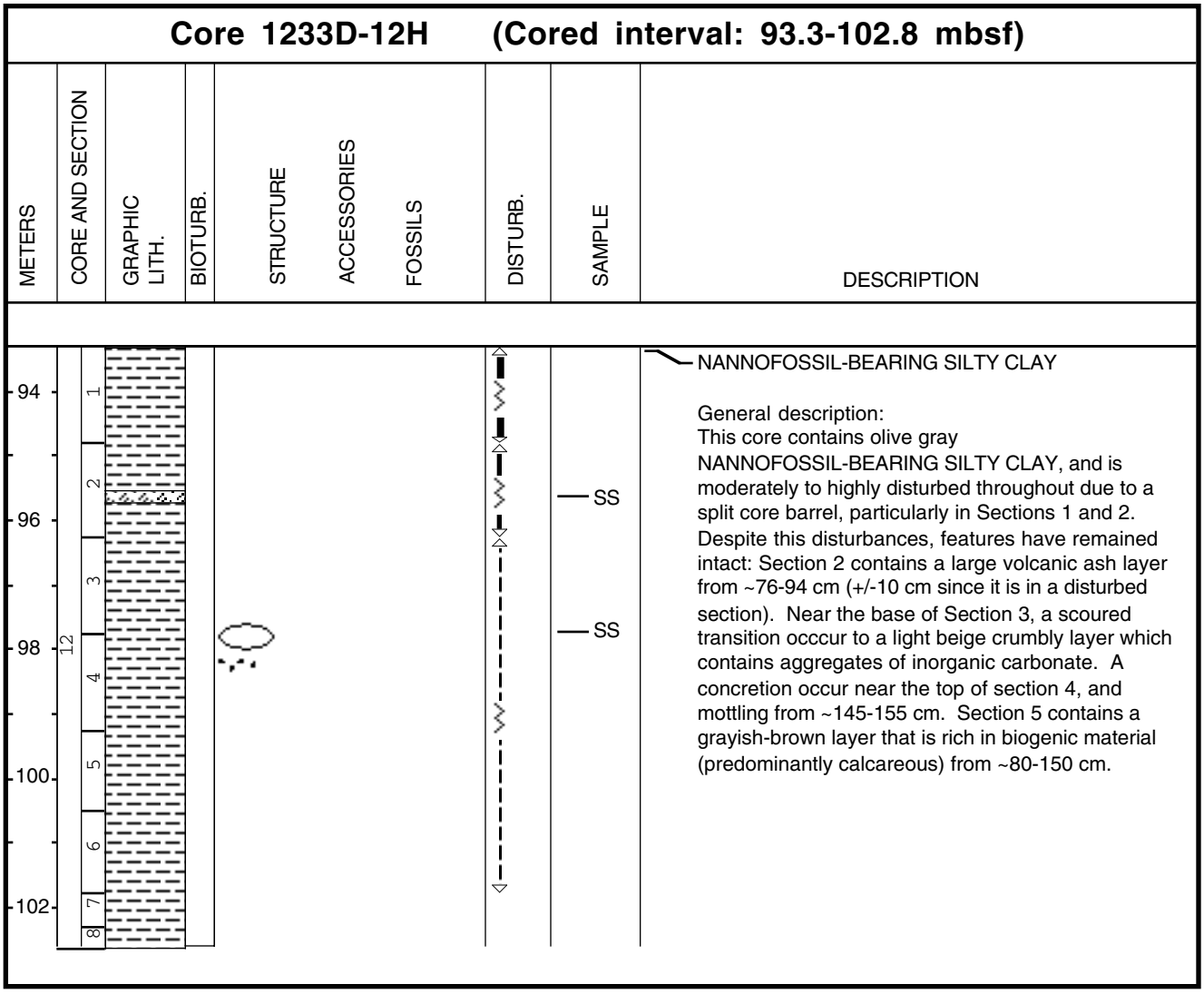
Core Photo


Core 1233D-10H (Cored interval: 74.3-83.8 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
76
78
80
82
10
1
2
3
4
5
6
7
8
F
S
SS
DIATOM NANNOFOSSIL-BEARING CLAY and CLAYEY DIATOM NANNOFOSSIL OOZE
General description:
This core contains dark olive gray DIATOM NANNOFOSSIL-BEARING CLAY. An interbedded layer of sandy silt is present at the top of Section 2. Monosulfides are abundant in Section 2 with subtle banding. A mottled transition to a brown layer occurs at the top of section 4. This brown layer contains CLAYEY DIATOM-NANNOFOSSIL OOZE. Gas expansions have produced multiple fissures, particularly in sections 3-5.

Core Photo

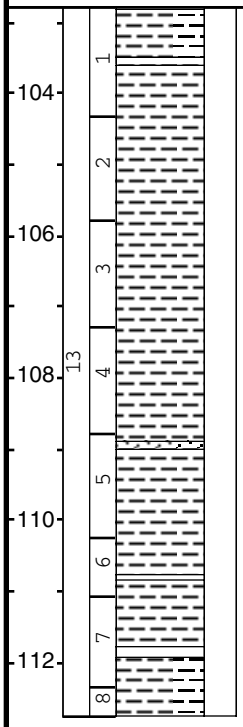

Core 1233D-11H (Cored interval: 83.8-93.3 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
86
88
90
92
11
1
2
3
4
5
6
7
8
9
DIATOM NANNOFOSSIL CLAY AND
NANNOFOSSIL-BEARING SILTY CLAY
General Description:
This core contains olive gray and dark gray DIATOM NANNOFOSSIL CLAY AND NANNOFOSSIL-BEARING SILTY CLAY. The sediment is very firm and homogeneous throughout, with only minor fissures due to gas expansion. Several subtle color changes occur throughout the core. A mottled interval is prsent in Section 2, 79-82 cm right above a thin lighter gray band consisting of volcanic ash. Section 7 has minor groove marks on the surface sediment due to core splitting.

Core Photo


Core 1233D-12H (Cored interval: 93.3-102.8 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
94
96
98
100
102
12
1
2
3
4
5
6
7
8
SS
SS
NANNOFOSSIL-BEARING SILTY CLAY
General description:
This core contains olive gray NANNOFOSSIL-BEARING SILTY CLAY, and is moderately to highly disturbed throughout due to a split core barrel, particularly in Sections 1 and 2. Despite this disturbances, features have remained intact: Section 2 contains a large volcanic ash layer from ~76-94 cm (+/-10 cm since it is in a disturbed section). Near the base of Section 3, a scoured transition occcur to a light beige crumbly layer which contains aggregates of inorganic carbonate. A concretion occur near the top of section 4, and mottling from ~145-155 cm. Section 5 contains a grayish-brown layer that is rich in biogenic material (predominantly calcareous) from ~80-150 cm.

Core Photo

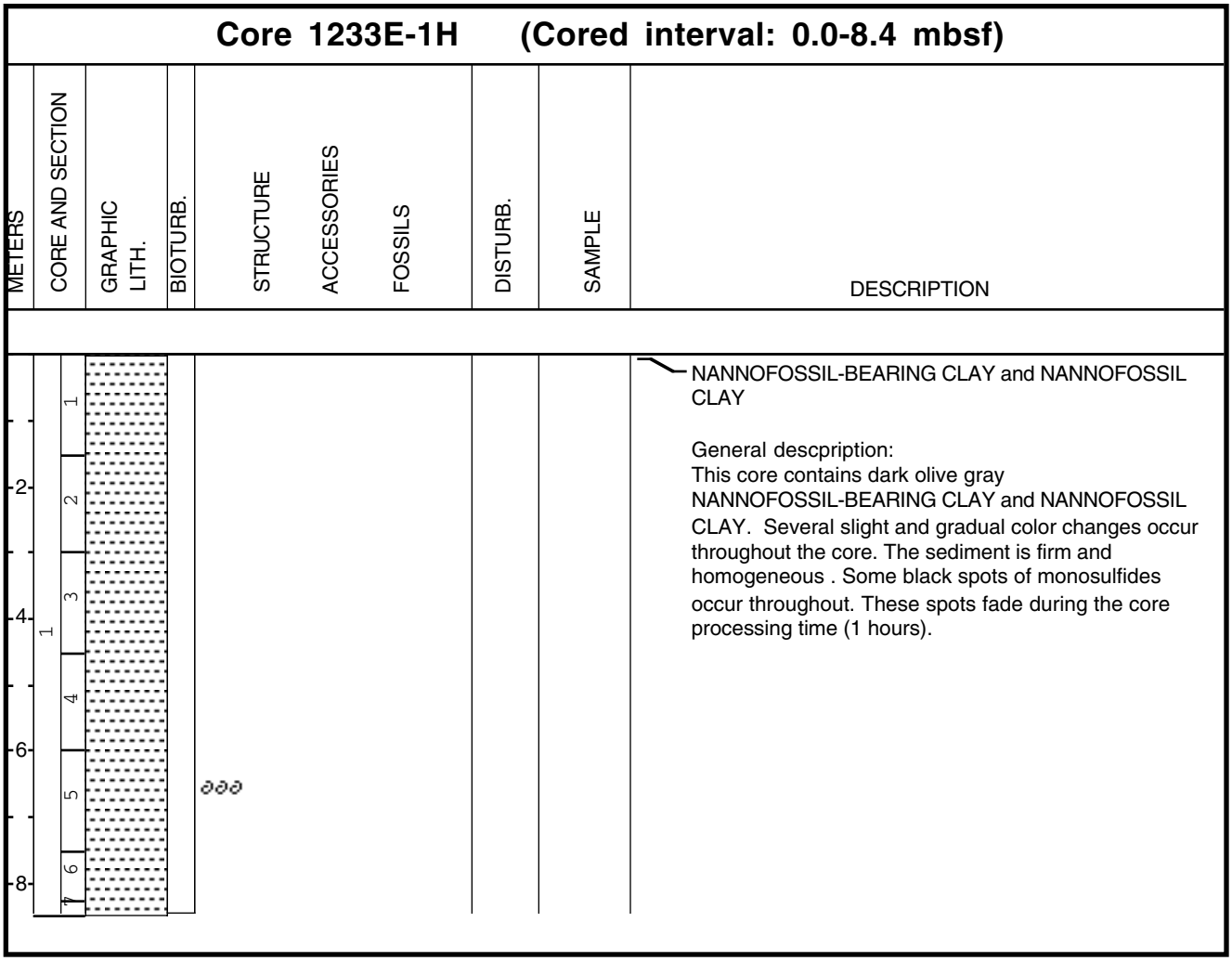
Core 1233D-13H (Cored interval: 102.8-112.3 mbsf)



NANNOFOSSIL-BEARING SILTY CLAY

General description:
This core contains olive gray and dark gray NANNOFOSSIL-BEARING SILTY CLAY. The sediment is very firm and homogeneous throughout, with only minor fissures due to gas expansion. Several subtle color changes occur throughout the core. In Section 5, 13-20 cm a light gray layer of volcanic ash is present. Void intervals occur in Section 2, 75-79 cm, Section 6, 55-60 cm and Section 7, 68-85 cm.

Core Photo

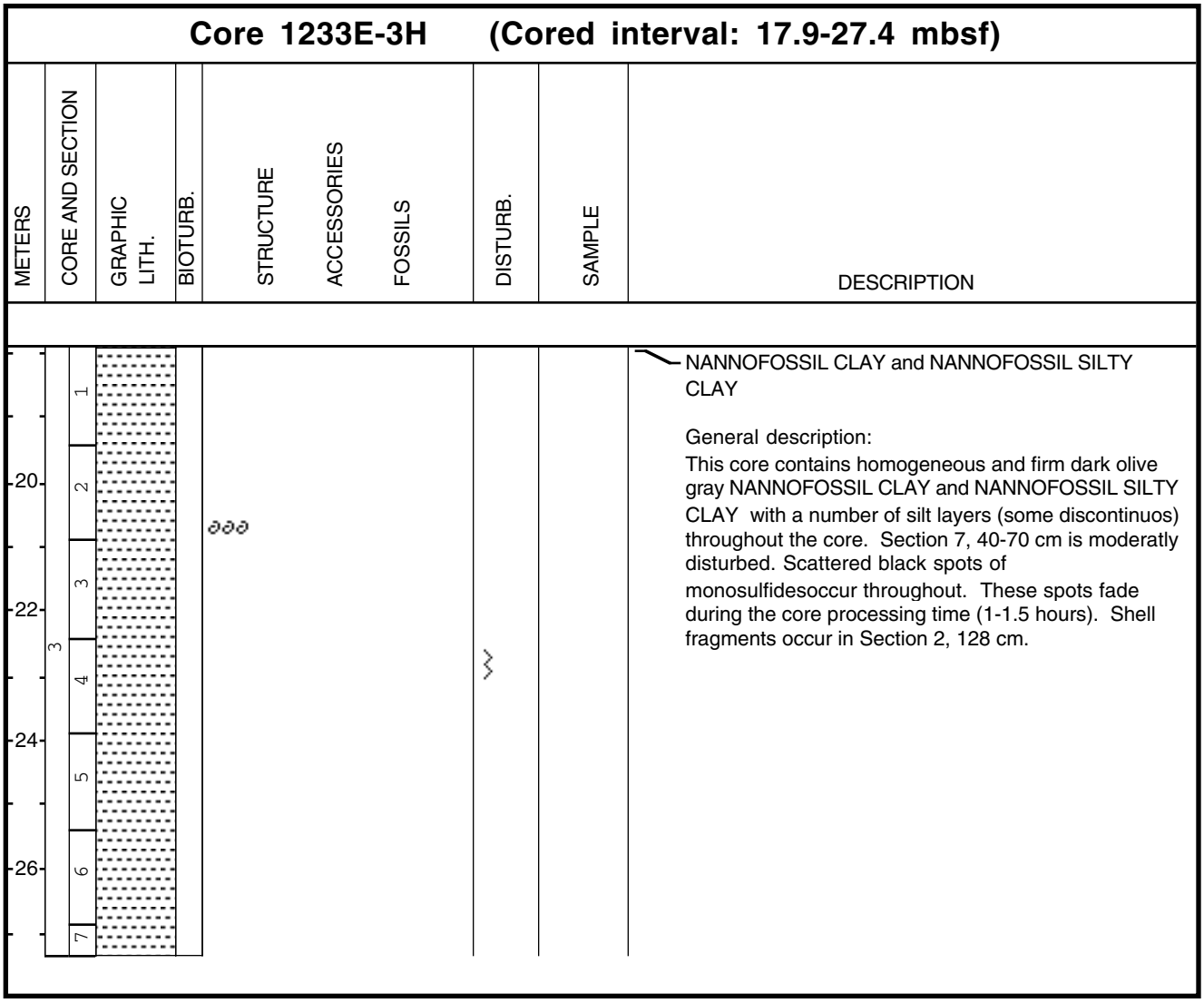

Core 1233E-1H (Cored interval: 0.0-8.4 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
NANNOFOSSIL-BEARING CLAY and NANNOFOSSIL CLAY
General descpription:
This core contains dark olive gray NANNOFOSSIL-BEARING CLAY and NANNOFOSSIL CLAY. Several slight and gradual color changes occur throughout the core. The sediment is firm and homogeneous . Some black spots of monosulfides occur throughout. These spots fade during the core processing time (1 hours).

Core Photo

Core 1233E-2H (Cored interval: 8.4-17.9 mbsf)

METERS	CORE AND SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
10 12 14 16 18	2 (1-8)								NANNOFOSSIL CLAY with SILICLASTIC ASH General description: This core contains homogeneous and firm dark olive gray NANNOFOSSIL CLAY with a few thin (<0.5 cm) silt layers dispersed throughout. A color change from dark olive gray to olive gray occurs at the base of Section 4. A volcanic ash layer is present in Section 4, 140-143 cm. Scattered black spots of monosulfides occur throughout. Shell fragments occur in Section 2, 51 cm.

Core Photo

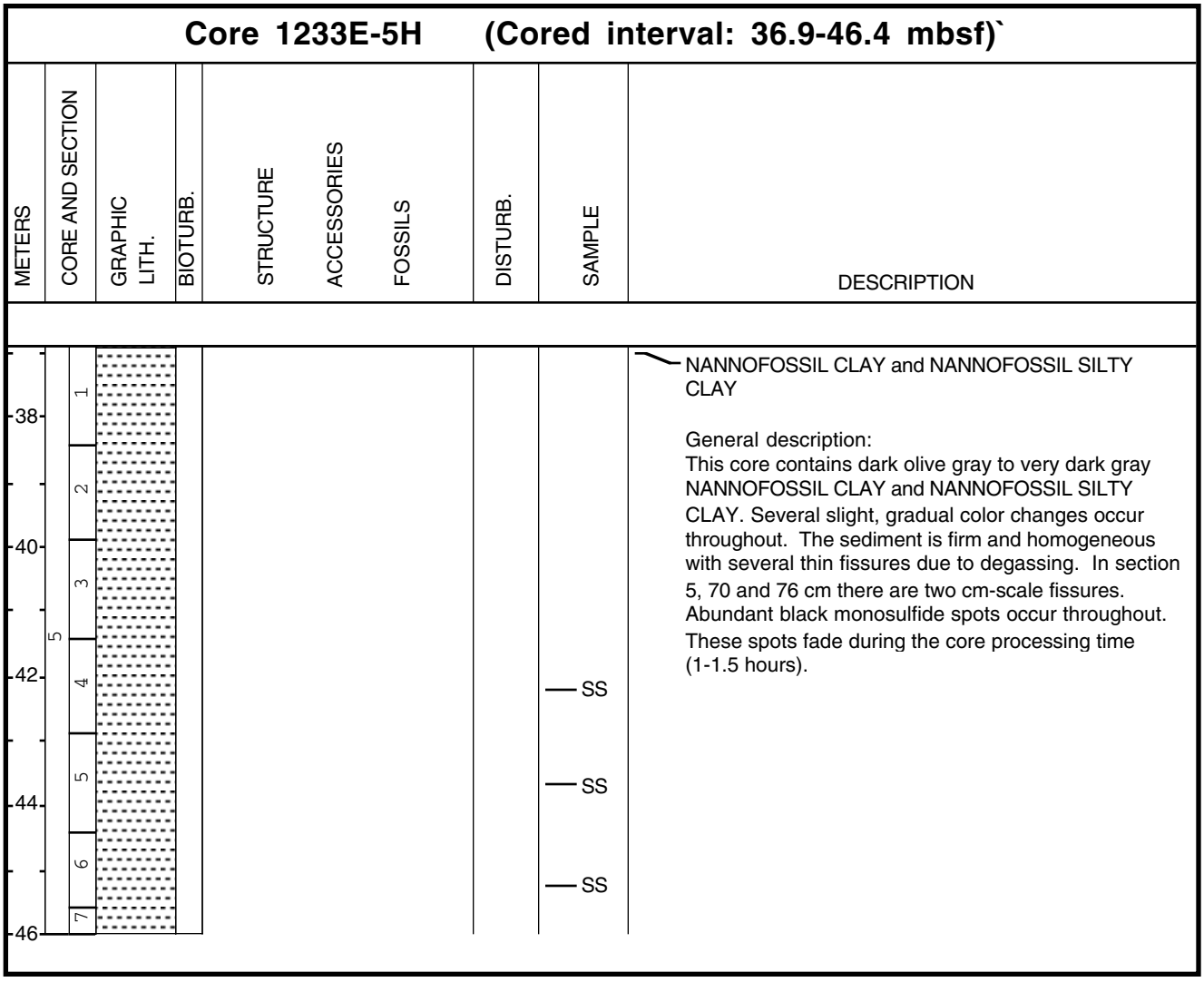

Core 1233E-3H (Cored interval: 17.9-27.4 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
20
22
24
26
3
1
2
3
4
5
6
7
NANNOFOSSIL CLAY and NANNOFOSSIL SILTY CLAY
General description:
This core contains homogeneous and firm dark olive gray NANNOFOSSIL CLAY and NANNOFOSSIL SILTY CLAY with a number of silt layers (some discontinuos) throughout the core. Section 7, 40-70 cm is moderatly disturbed. Scattered black spots of monosulfidesoccur throughout. These spots fade during the core processing time (1-1.5 hours). Shell fragments occur in Section 2, 128 cm.

Core Photo

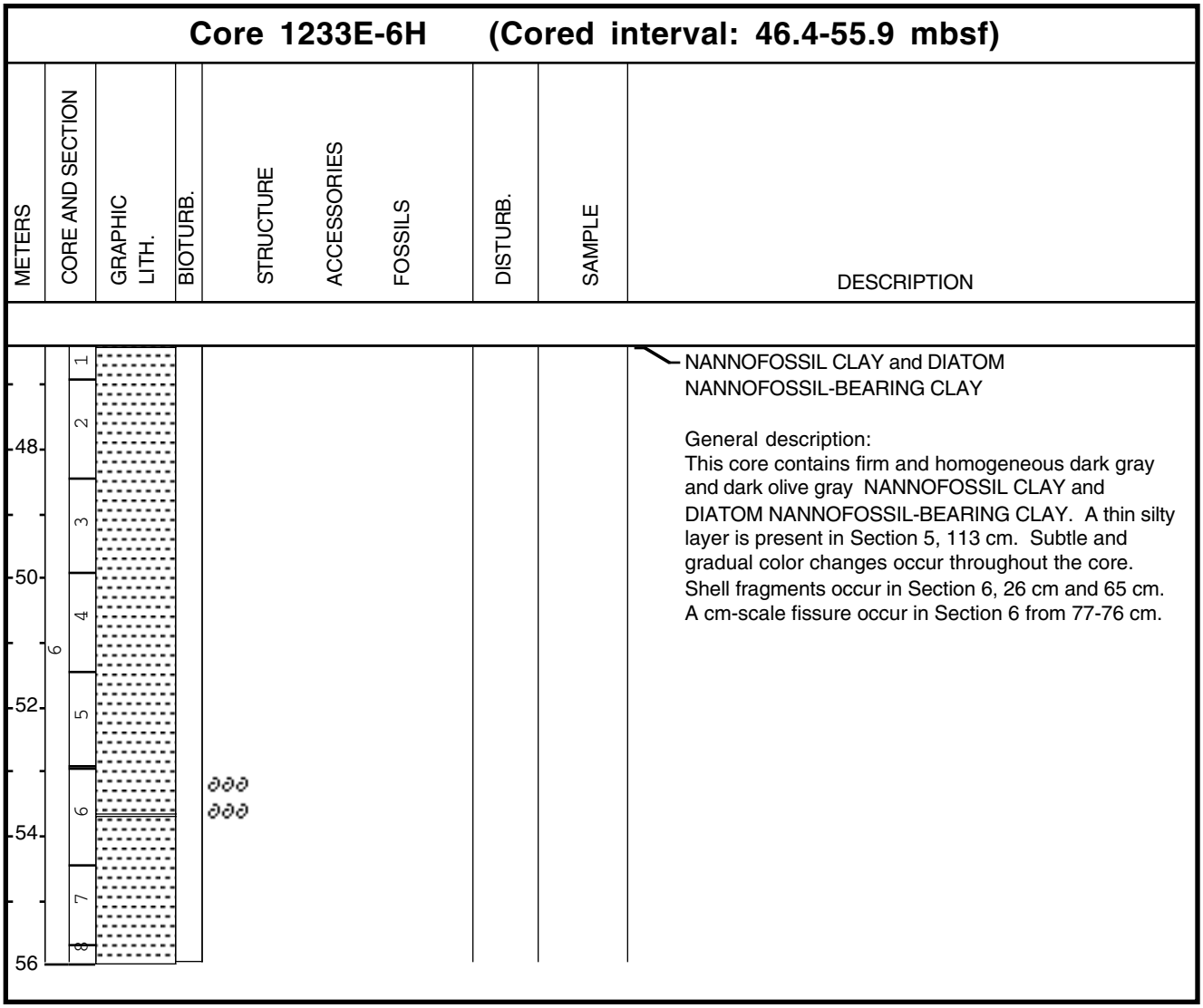
Core 1233E-4H (Cored interval: 27.4-36.9 mbsf)

METERS	CORE AND SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
28 30 32 34	4 (1, 2, 3, 4, 5, 6, 7)								NANNOFOSSIL CLAY and NANNOFOSSIL SILTY CLAY General description: This core contains homogeneous and firm dark olive gray NANNOFOSSIL CLAY and NANNOFOSSIL SILTY CLAY with a few thin (<0.5 cm) discontinuous silt layers throughout. A few black spots of monosulfides occur downcore.

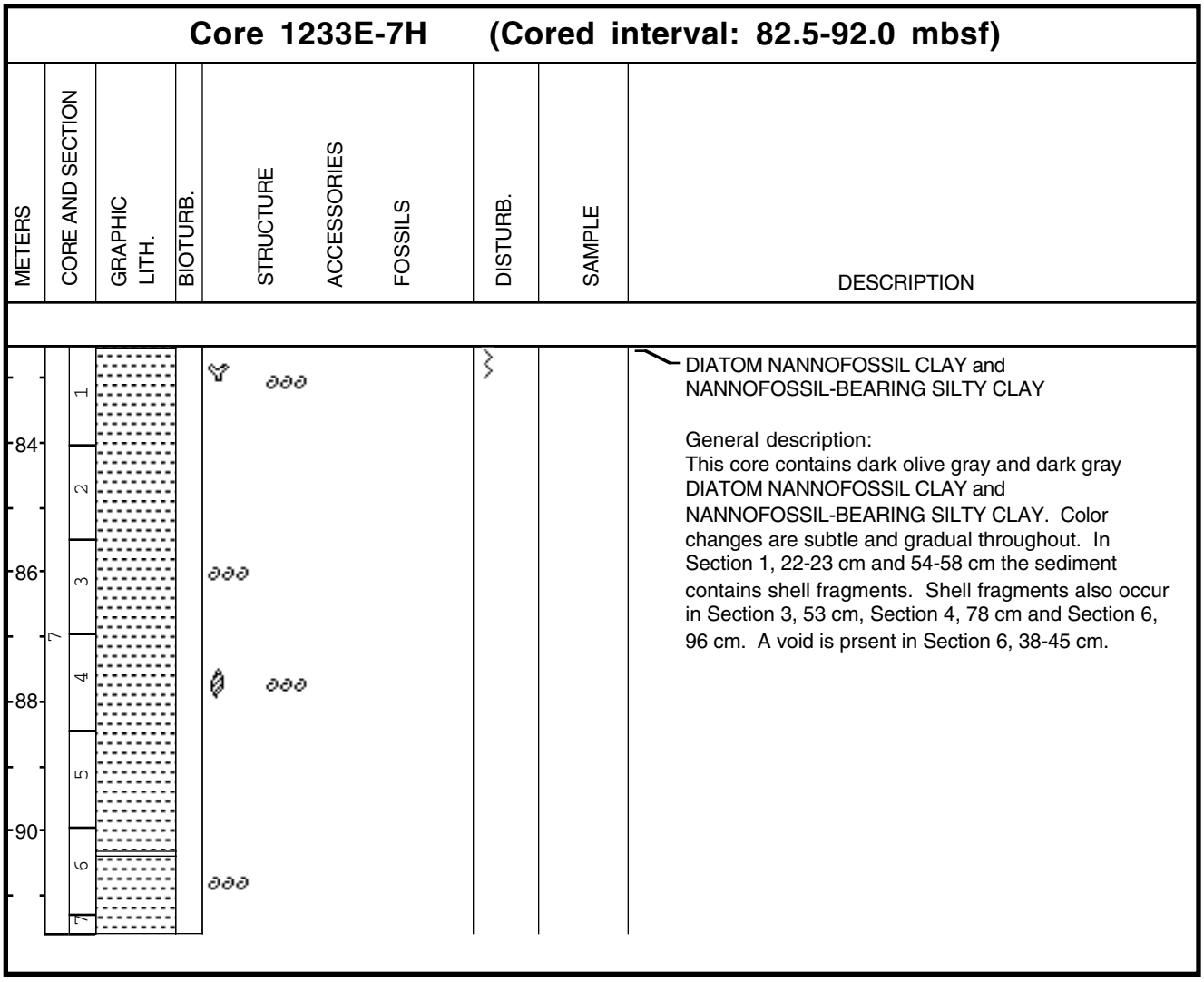
Core Photo


Core 1233E-5H (Cored interval: 36.9-46.4 mbsf)`
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
38
40
42
44
46
5
1
2
3
4
5
6
7
SS
SS
SS
NANNOFOSSIL CLAY and NANNOFOSSIL SILTY CLAY
General description:
This core contains dark olive gray to very dark gray NANNOFOSSIL CLAY and NANNOFOSSIL SILTY CLAY. Several slight, gradual color changes occur throughout. The sediment is firm and homogeneous with several thin fissures due to degassing. In section 5, 70 and 76 cm there are two cm-scale fissures. Abundant black monosulfide spots occur throughout. These spots fade during the core processing time (1-1.5 hours).

Core Photo

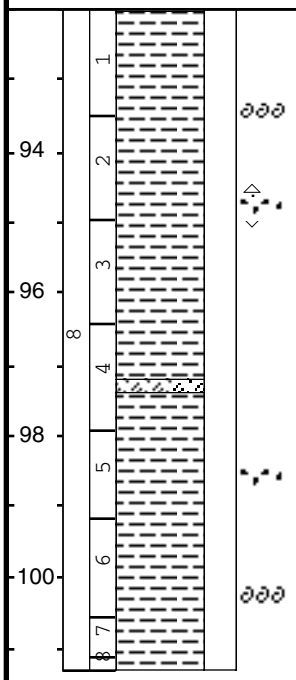

Core 1233E-6H (Cored interval: 46.4-55.9 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
48
50
52
54
56
6
1
2
3
4
5
6
7
8
NANNOFOSSIL CLAY and DIATOM NANNOFOSSIL-BEARING CLAY
General description:
This core contains firm and homogeneous dark gray and dark olive gray NANNOFOSSIL CLAY and DIATOM NANNOFOSSIL-BEARING CLAY. A thin silty layer is present in Section 5, 113 cm. Subtle and gradual color changes occur throughout the core. Shell fragments occur in Section 6, 26 cm and 65 cm. A cm-scale fissure occur in Section 6 from 77-76 cm.

Core Photo


Core 1233E-7H (Cored interval: 82.5-92.0 mbsf)
METERS
CORE AND SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
84
86
88
90
7
1
2
3
4
5
6
7
DIATOM NANNOFOSSIL CLAY and
NANNOFOSSIL-BEARING SILTY CLAY
General description:
This core contains dark olive gray and dark gray DIATOM NANNOFOSSIL CLAY and NANNOFOSSIL-BEARING SILTY CLAY. Color changes are subtle and gradual throughout. In Section 1, 22-23 cm and 54-58 cm the sediment contains shell fragments. Shell fragments also occur in Section 3, 53 cm, Section 4, 78 cm and Section 6, 96 cm. A void is prsent in Section 6, 38-45 cm.

Core Photo

Core 1233E-8H (Cored interval: 92.0-101.5 mbsf)



NANNOFOSSIL-BEARING SILTY CLAY

General description:
This core contains olive gray and brown gray NANNOFOSSIL-BEARING SILTY CLAY. The sediment is very firm and homogeneous throughout. A light gray volcanic ash layer is present in Section 5, 43-84 cm with a sharp base. Mottled colour transitions between olive gray and brown gray intervals occur throughout.

Sample					Texture				Mineral																										Biogenic							Rock		
Core	Type	Section	Top (cm)	Depth (mbsf)	Lithology	Sand (%)	Silt (%)	Clay (%)	Amphibole (8)	Clay Mineral (47)	Clinopyroxene (49)	Dolomite (62)	Epidote (67)	Feldspar (71)	Garnet (79)	Glauconite (82)	Heavy Minerals (89)	Inorganic Calcite (97)	Mica (118)	Opaques (140)	Orthopyroxene (143)	Palagonite (148)	Phillipsite (155)	Pyrite (169)	Quartz (172)	Rutile (178)	Titanite (210)	Volcanic Glass (81)	Zircon (223)	Diatoms (58)	Foraminifers (78)	Nannofossils (132)	Pollen (162)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	Micrite (119)	Volcanic Fragments (220)	Comments
Hole B																																										
1	H	1	0.5	0.01	D	0	25	75	R	51	R			8					R	2	R	R		2	3			R		8	5	17		2	2	R			
1	H	1	75	0.75	D	3	14	83	R	43			R	4		R			R	4	R	1			4	R		1		7	1	30		R	3	R	1		
1	H	3	75	3.76	D	0	25	75	R	48	R			8					R	1	R	R		1	5			R		5	5	24		1	1	R			
2	H	1	75	15.25	D	0	14	86	R	47	R			5					R	R		R		2	3			R		2	8	31		2	2				
2	H	3	75	18.27	D	3	24	73	R	44	R			7					R	1	R	R		3	4			R		3	4	29		1	1	R			
2	H	4	92.5	19.96	M	0	33	67		41	R			10					R	2	R	R		2	4			R		R	10	31		R	R				from “silty” layer
3	H	1	74	24.74	M	0	9	91	R	56				2					R	R		R	R	R	2			R		2	2	37		R	R				contains abundant rosettes of ? phillipsite
3	H	2	4	25.55	M	0	19	81	R	51	R			5					R	2	R			12	3			R		R	2	25		R	R				from “bleck” spot
3	H	3	74	27.75	D	0	9	91	R	60	R			2					R	2	R	R	R	R	2			R		2	2	30		R	R				rare ? phillipsite
4	H	1	14.5	33.65	M	0	25	75	R	54	R			9					R	R	R	R		2	4			R		2	2	27		R	R	R			
4	H	1	75	34.25	D	1	23	76	1	62	R			3					1		R			4	3			R		3	3	19	2		1				
4	H	3	75	37	D	0	15	85	R	61	R			8					R	R	R			R	1			R		11	3	15		1	R				
5	H	1	75	43.75	D	0	11	89	R	78	R			6					R	R				R	2			R		4	R	10		R	R				
5	H	3	75	46.77	D	0	9	91	R	79	R			5					R	R	R			2	2			3		2	R	8		R	R				
6	H	1	75	53.25	D	0	9	91	R	74	R			3					R	R	R		R	R	1					R	R	22		R	R				rare ? phillipsite
6	H	3	75	56.26	D	0	17	83	R	76	2			R					R		2			5	2			2		3	2	5	3		2				
7	H	1	75	62.75	D	0	9	91	R	81	R			3					R	R		R		2	2			R		3	R	8		2	R				
7	H	3	75	65.76	D	0	11	89	R	69	R			5					R	R				2	2			R		5	R	18		R					
7	H	6	120	70.72	D	0	19	81	R	51	R			7			R		R	R		R		2	3			R		8	R	25		3	R	R			
8	H	1	75	72.25	D	0	14	86	R	55				5					R	R	R			R	2			2		5	R	28		2	R				
8	H	3	75	75.26	D	0	20	80	R	63	R			8					R	R	R	R		R	3			R		6	2	16		2	R				
8	H	4	120	77.02	M	42	50	8	5		5	5	5	25					R	15	R	10		10	15	R	R	5		R	R	R	R	R	R	R			
8	H	7	40	80.72	D	0	27	73	R	63	R		R	11	R				2	2		R			6			2		5	R	8		2	R				
9	H	1	75	81.75	D	2	10	87	1	59			R	10						1	1	1		3	3	R	R	R		10	R	7	R	R	1	R			
9	H	2	20	82.71	D	0	11	89	1	36				3					R	1	R	1		3	1	R		R		10	1	36			3		1		
9	H	3	75	84.26	D	0	11	89	R	69				9		R			R	2	2	2		2	2	R	R	R	R	5	2	5		R	2	R	R		
10	H	1	75	91.25	D	5	26	69	3	53	R			13					R	1	R	1		4	9	R	R	R		4	1	9	R		R		R		
10	H	3	75	94.14	D	0	23	77	R	47				16							1	R	R	2	1			2		16	R	12			5	R	R		
11	H	1	10	100.1	D	0	20	80	R	42	R			4						2	R	2		2	2	R		R		15	6	21		R	R	4	R		
11	H	1	75	100.75	D	5	24	71	3	45	R			15	R					2	R	4		4	7	R	R	R		10	R	7		R	2	R			
11	H	3	75	103.52	D	2	23	75	1	56	R			17		R				1	R	1		3	2	R	R	R	R	11	1	6		R	R	R	1		
Hole C																																										
1	H	1	75	0.75	D	2	33	65	R	64	2		R	2					R		2			2	2			2		4	R	15	2		2				
1	H	3	75	3.77	D	0	33	67	2	60	2		2	R					R		2			10	2			R		R	4	14	2	R	R	R			
2	H	6	76	16.15	M	20	30	50	R		2			12				R			2			12	12			60		R		R	R	R	R	R			ash-rhyolitic -explosive eruption
3	H	2	75	19.56	D	0	27	73	4	56	1			1					R		1			1	3					R	1	28	R	1	R	R			
3	H	5	75	23.96	D	0	38	62	7	53	1			1							1			7	1					1		26		R	1	R			
4	H	2	75	29.06	D	0	20	80	4	61				R				R							2					R		30	2	R	2				
4	H	4	74	32.05	D	0	20	80	7	57	R			R				R	R		R			1	1					1	R	29	1	R	1	R			
5	H	2	75	33.06	D	0	27	73	4	58	R			1					R		R			1	1					1	R	29	1	R	1	R			
5	H	3	24	34.06	D	0	33	67	4	58	1			1					R		R			R	1					1	R	29	1	R	1	R			
6	H	2	75	42.19	D	1	30	69	R	50				10					R	3				R	3					5		25		1	3	R			
6	H	5	75	46.7	D	0	27	73	4	56	R			1					1		R			R	1			4		1	R	28	1	R	1	R			
7	H	1	74	50.54	D	0	23	77	4	40	R			8					R	4	R				4			R		3	4	20			R		4		

Sample					Texture				Mineral																								Biogenic							Rock		
Core	Type	Section	Top (cm)	Depth (mbsf)	Lithology	Sand (%)	Silt (%)	Clay (%)	Amphibole (8)	Clay Mineral (47)	Clinopyroxene (49)	Dolomite (62)	Epidote (67)	Feldspar (71)	Garnet (79)	Glauconite (82)	Heavy Minerals (89)	Inorganic Calcite (97)	Mica (118)	Opaques (140)	Orthopyroxene (143)	Palagonite (148)	Phillipsite (155)	Pyrite (169)	Quartz (172)	Rutile (178)	Titanite (210)	Volcanic Glass (81)	Zircon (223)	Diatoms (58)	Foraminifers (78)	Nannofossils (132)	Pollen (162)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Silicoflagellates (189)	Micrite (119)	Volcanic Fragments (220)	Comments
Hole C (continued)																																								
7	H	3	74	53.54	D	0	19	81	R	67			R	11					R	2	R	2		2	4	R	R	2		4	R	2			2		R		
8	H	2	75	60.61	D	0	50	50	3	39	R		R	25						3	R	R		5	8	R				8	3	3	R		3		R		
8	H	5	75	64.98	M	0	6	94	R	65	R		R	4					R	1	R	R		3	1	R	R	R		9	R	13		R	4	R	R		
9	H	1	60	69.4	D	0	11	89	R	58	R		R	5	R				R	R		R		2	2	R		R		7	5	11			5		2		
9	H	5	145	75.44	M	74	26	0	6		R			63					R	9	R	6			16	R													
10	H	1	79	79.09	D	0	12	88	0	35	R			2					R		R			4	R	R		R		4	2	53			2				
10	H	5	75	84.18	D	0	9	91		25	R			12				3	R	R	R	R		R	5	R		R		2	2	50			2	R	R		rich in microcrystalline calcite (clay-size)
11	H	2	51	88.77	M	70	30	0	R					4					4	4				4	4			77		R		R					R		feldspar=andesine -acid volcanism
11	H	5	129.5	94.07	M	53	37	10	8		R			40					R	4		4		8	20					12					4				feldspar=labradorite
12	H	2	75	98.4	M	0	3	97	R					2				89				R			R			4		2					2				taken from carbonate concretion
13	H	4	37	110.4	M	0	100	0	R		R			5					R		R	R		2	2			90									R		feldspar=labradorite
13	H	4	41	110.44	M	58	42	0	R		R			12					R	25	R	1			R			62											feldspar=labradorite
Hole D																																								
10	H	4	30	78.01	D	0	23	77	5	55	1			1				2							1					1	1	27	2	1	1	R			
12	H	2	80	95.64	M	71	29	0	2					2											2			94											thick ash layer
12	H	3	140	97.69	M	0	15	85						R				100							R														fine grained carbonate- aggregates of carbona
13	H	5	15	108.94	M	71	29	0					3	3											3			91											ash layer
Hole E																																								
5	H	4	75	42.15	D	0	27	73	5	30	R			3				1			1			3	1					1	1	51		R	1	R			
5	H	5	75	43.65	D	0	27	73	6	36	R			4				R			R			2	1					1	1	48		R	1	R			
5	H	6	75	45.16	D	0	27	73	6	36	1			2							R			4	1					1	1	48							
8	H	1	75	92.75	D	0	9	91	3	77	R		R	5	R				3	R	R	R		3	R			3		3	R	3		R	3	R			
8	H	2	75	94.25	D	0	20	80	2	60	R			14	R	R			R	2	R	R		R	4	R		2		10	2	2		R	2	R	R		
8	H	3	75	95.71	D	0	6	94	R	83	R			5					R		R	R		3	2	R		2		2		2				2			
8	H	4	75	97.18	M	10	29	61	2	70				15		R	R			1								10		R		1		R	R				sand-sized glass shards
8	H	4	90	97.33	M	0	100	0						R					R		R				R			100											
8	H	5	75	98.7	D	1	31	68	4	65				20			R			5				R	1					R		1		R	R				
8	H	6	75	99.95	D	0	27	73	R	59	R		R	15					R	3	R	R		1	4	R	R	3		1		10				3	R		
8	H	7	40	100.98	D	0	30	70	2	65				20		R	R		R	2					R					3	R	8		R		1			