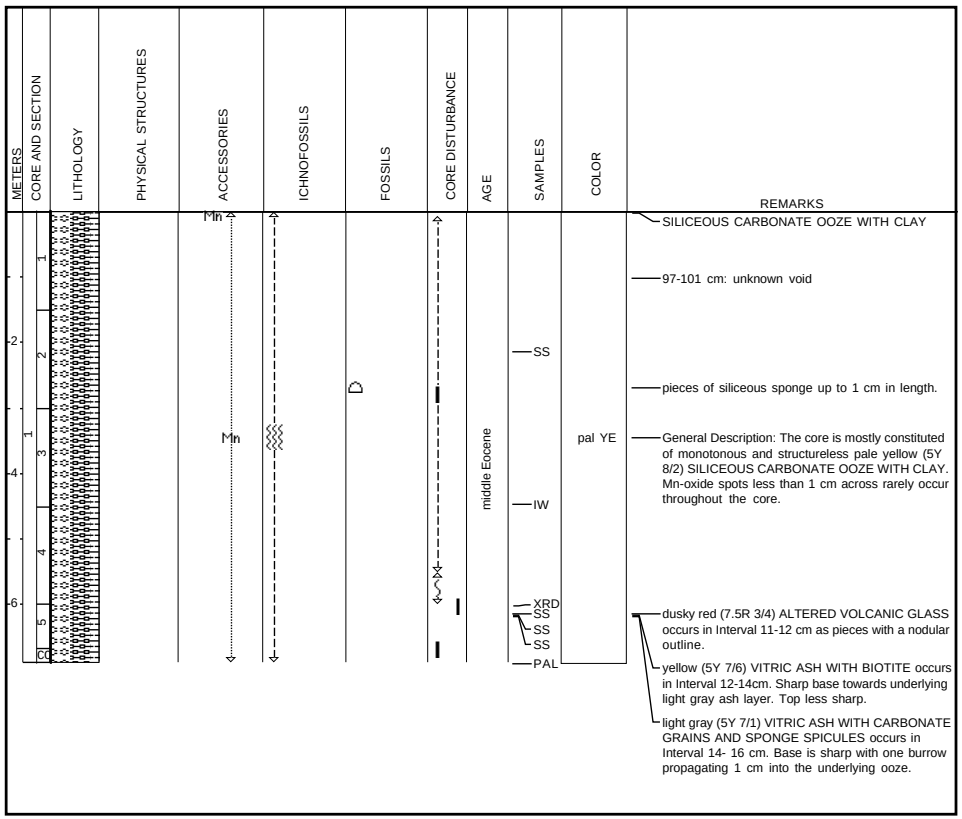
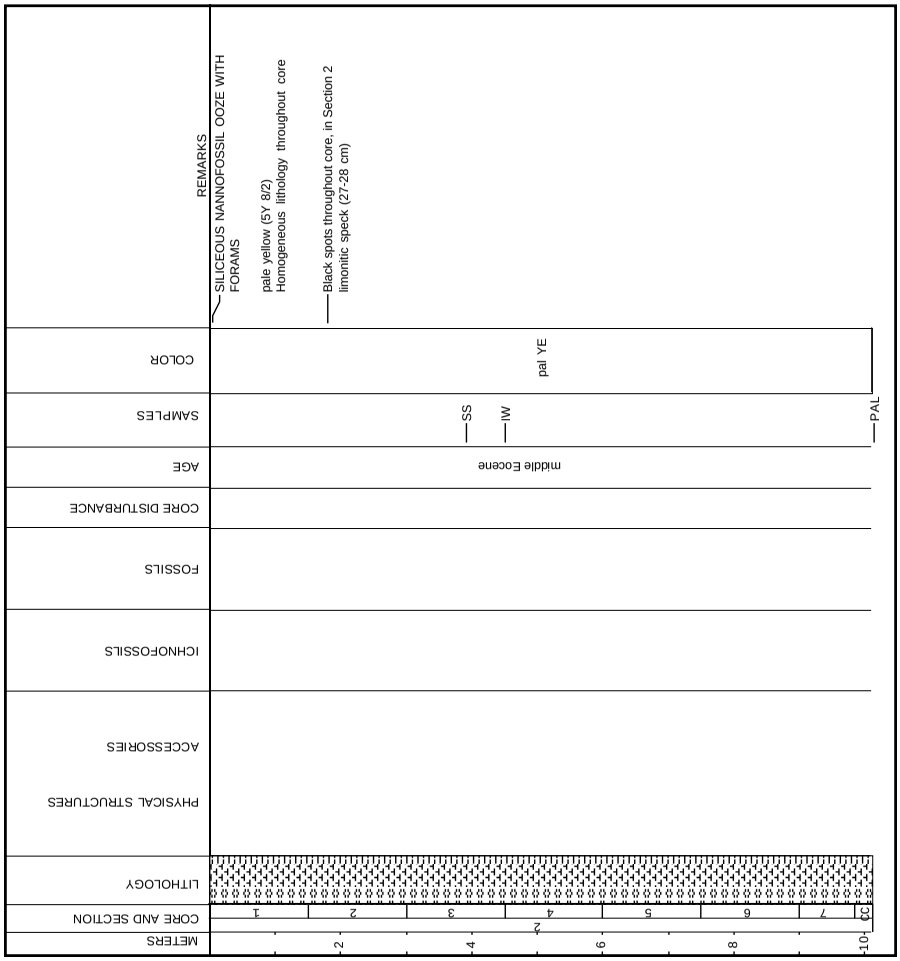
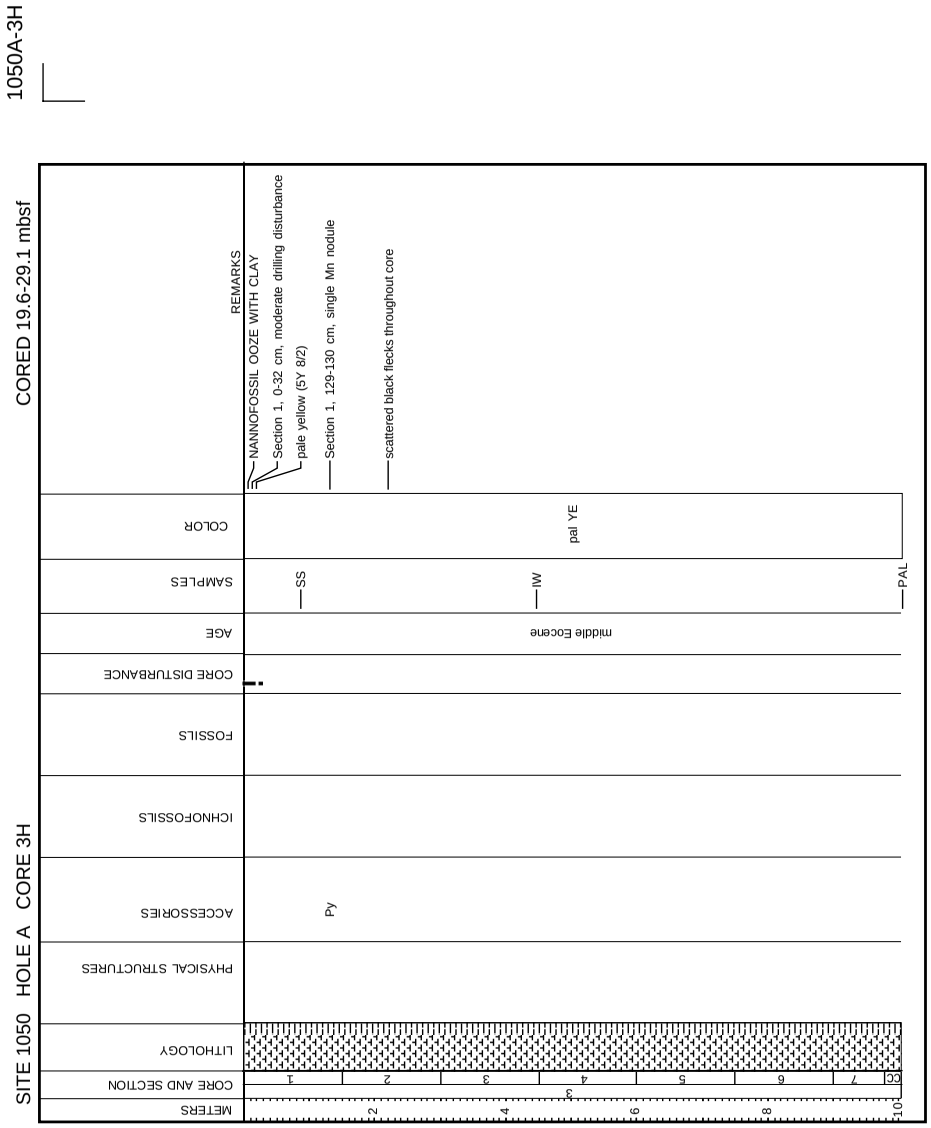
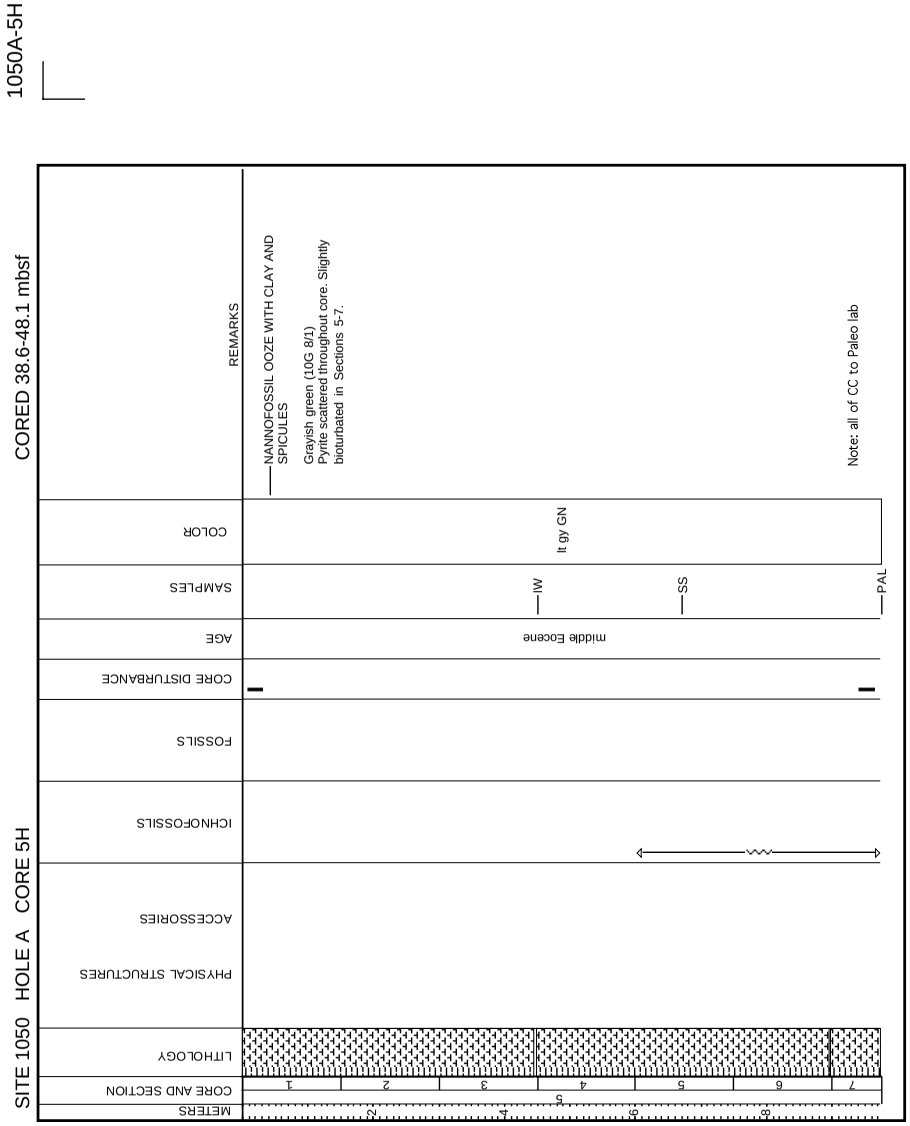
SITE 1050 HOLE A HOLE 1X CORED 0-10.1 mbsf




SITE 1050 HOLE A CORE 2H
CORED 10.10-19.60 mbsf
1050A-2H
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
SILICEOUS NANNOFOSSIL OOZE WITH FORAMS
pale yellow (5Y 8/2)
Homogeneous lithology throughout core
Black spots throughout core, in Section 2
limonitic speck (27-28 cm)
middle Eocene
SS
MI
PAL
pal YE
1
2
3
4
5
6
7
CC
2
4
6
8
10


1050A-3H
SITE 1050 HOLE A CORE 3H
CORED 19.6-29.1 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
Py
middle Eocene
SS
IW
PAL
pal YE
NANNOFOSSIL OOZE WITH CLAY
Section 1, 0-32 cm, moderate drilling disturbance
pale yellow (5Y 8/2)
Section 1, 129-130 cm, single Mn nodule
scattered black flecks throughout core

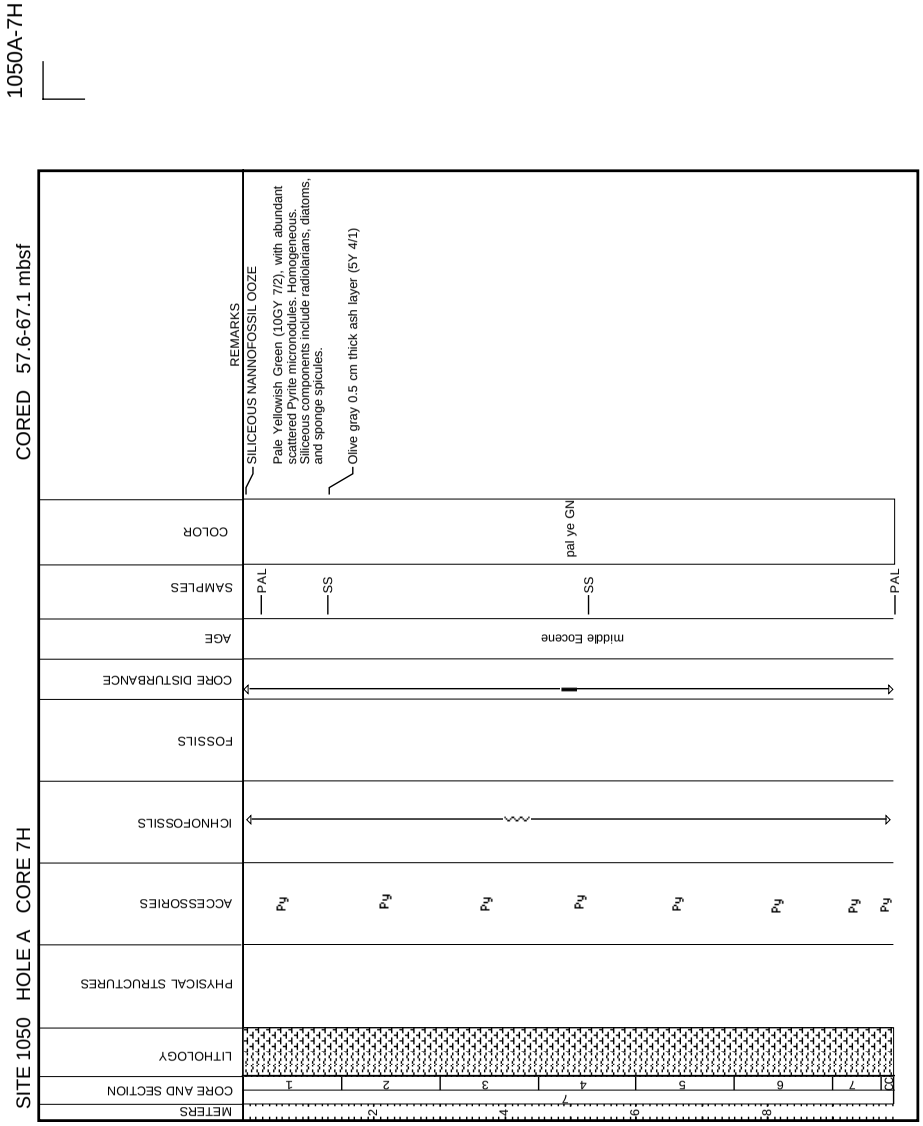
SITE 1050 HOLE A CORE 4H CORED 29.1-38.6 mbsf

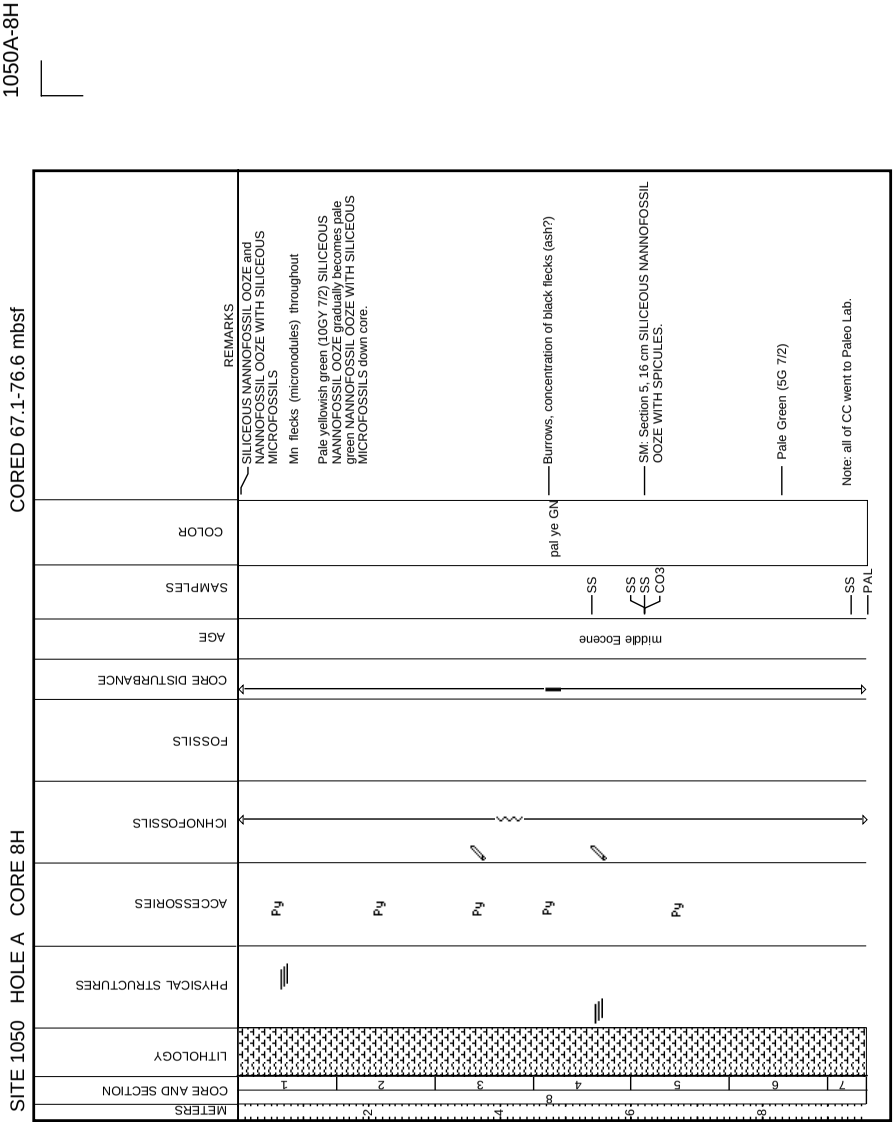

1050A-5H
SITE 1050 HOLE A CORE 5H
CORED 38.6-48.1 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
middle Eocene
IW
SS
PAL
lt gy GN
NANNOFOSSIL OOZE WITH CLAY AND SPICULES
Grayish green (10G 8/1)
Pyrite scattered throughout core. Slightly bioturbated in Sections 5-7.
Note: all of CC to Paleo lab

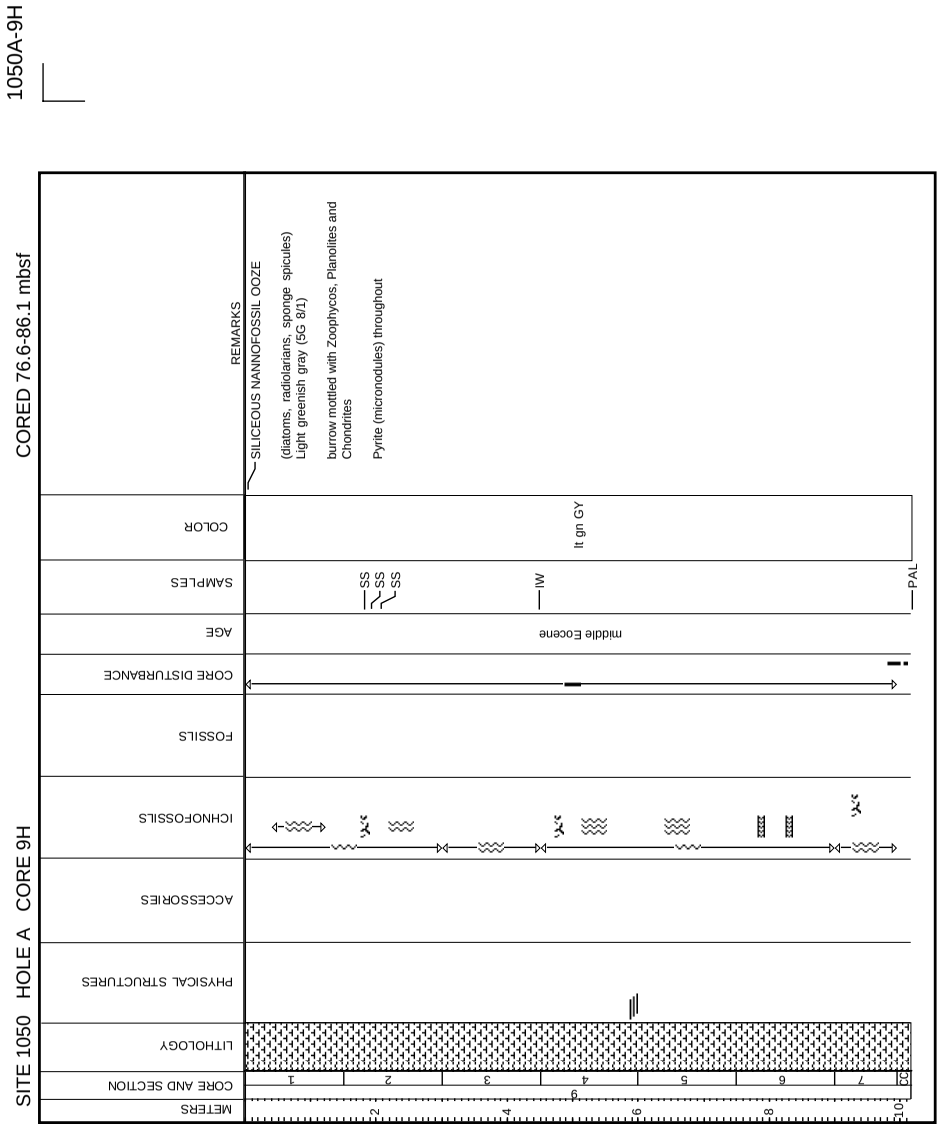
SITE 1050 HOLE A CORE 6H

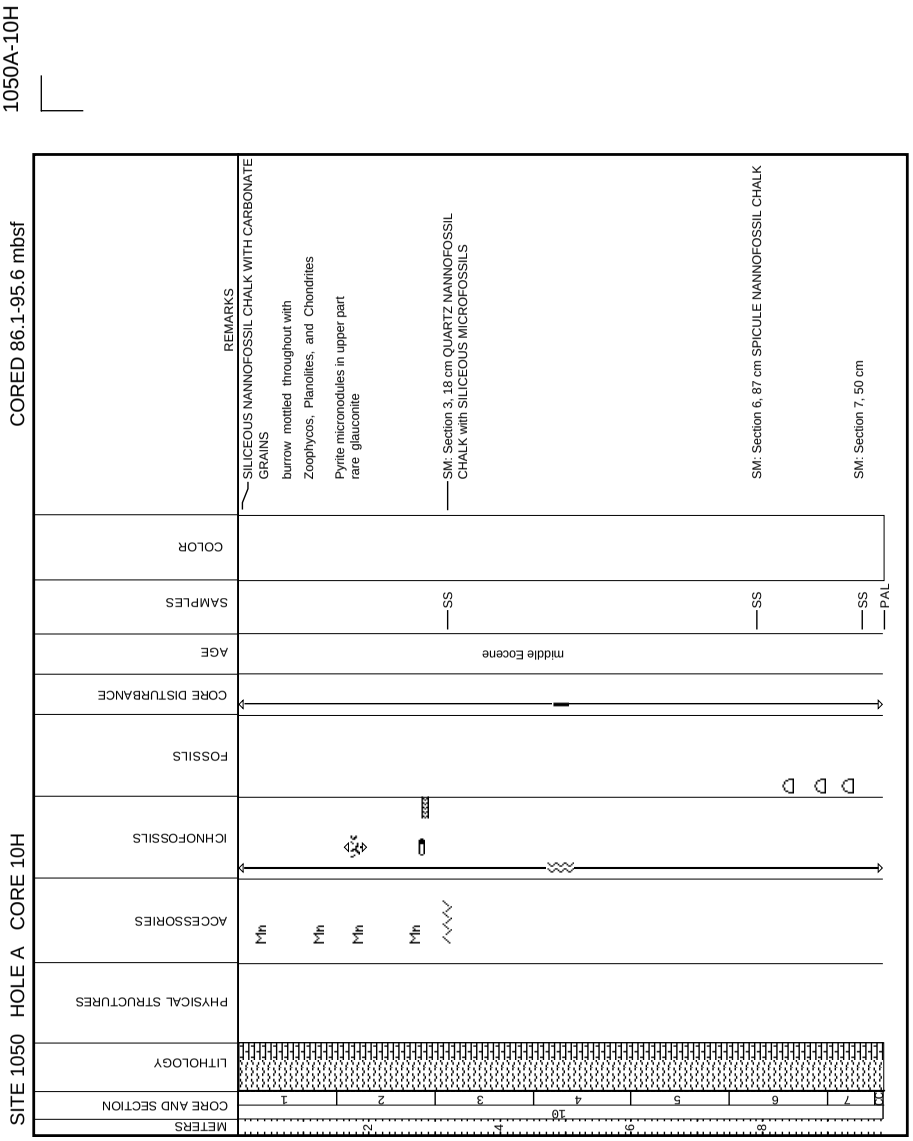
CORED 48.1-57.6 mbsf

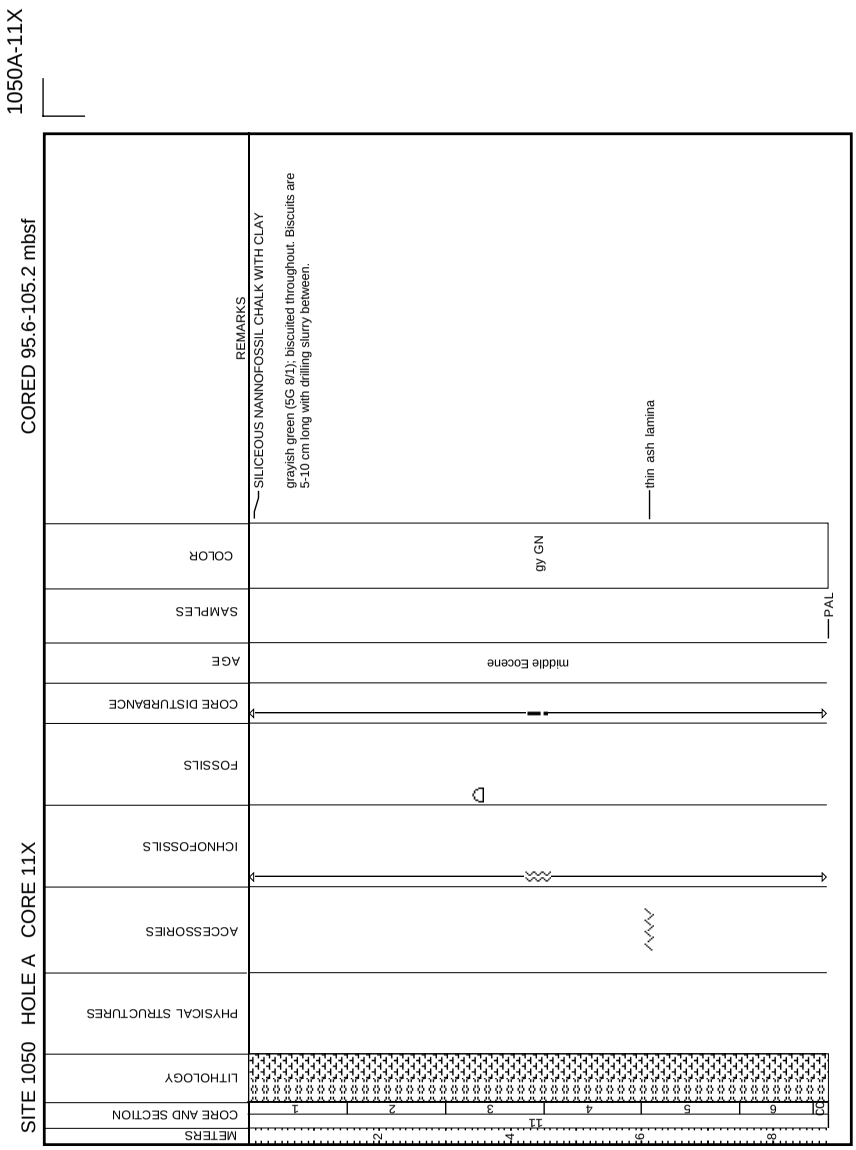
1050A-6H


1050A-7H
SITE 1050 HOLE A CORE 7H
CORED 57.6-67.1 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
middle Eocene
PAL
SS
SS
PAL
pal ye GN
SILICEOUS NANNOFOSSIL OOZE
Pale Yellowish Green (10GY 7/2), with abundant scattered Pyrite micronodules. Homogeneous. Siliceous components include radiolarians, diatoms, and sponge spicules.
Olive gray 0.5 cm thick ash layer (5Y 4/1)
Py
1
2
3
4
5
6
7
CC


1050A-8H
SITE 1050 HOLE A CORE 8H
CORED 67.1-76.6 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
SILICEOUS NANNOFOSSIL OOZE and NANNOFOSSIL OOZE WITH SILICEOUS MICROFOSSILS
Mn flecks (micronodules) throughout
Pale yellowish green (10GY 7/2) SILICEOUS NANNOFOSSIL OOZE gradually becomes pale green NANNOFOSSIL OOZE WITH SILICEOUS MICROFOSSILS down core.
Burrows, concentration of black flecks (ash?)
SM: Section 5, 16 cm SILICEOUS NANNOFOSSIL OOZE WITH SPICULES.
Pale Green (5G 7/2)
Note: all of CC went to Paleo Lab.
pal ye GN
middle Eocene
SS
SS
SS
CO3
SS
PAL
Py
1
2
3
4
5
6
7
0
2
4
6
8


1050A-9H
SITE 1050 HOLE A CORE 9H
CORED 76.6-86.1 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
SILICEOUS NANNOFOSSIL OOZE
(diatoms, radiolarians, sponge spicules)
Light greenish gray (5G 8/1)
burrow mottled with Zoophycos, Planolites and Chondrites
Pyrite (micronodules) throughout
middle Eocene
SS
SS
SS
IW
PAL
lt gn GY
1
2
3
4
5
6
7
CC

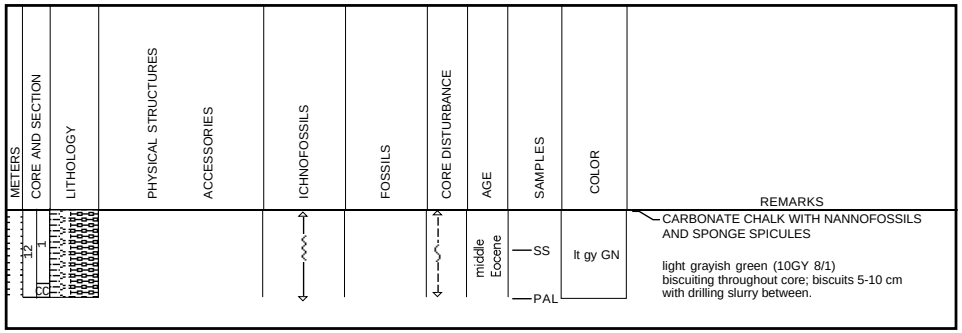

1050A-10H
CORED 86.1-95.6 mbsf
SITE 1050 HOLE A CORE 10H
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
SILICEOUS NANNOFOSSIL CHALK WITH CARBONATE GRAINS
burrow mottled throughout with Zoophycos, Planolites, and Chondrites
Pyrite micronodules in upper part
rare glauconite
SM: Section 3, 18 cm QUARTZ NANNOFOSSIL CHALK with SILICEOUS MICROFOSSILS
SM: Section 6, 87 cm SPICULE NANNOFOSSIL CHALK
SM: Section 7, 50 cm
middle Eocene
SS
SS
SS
PAL


1050A-11X
CORED 95.6-105.2 mbsf
SITE 1050 HOLE A CORE 11X
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
SILICEOUS NANNOFOSSIL CHALK WITH CLAY
grayish green (5G 8/1); biscuited throughout. Biscuits are 5-10 cm long with drilling slurry between.
thin ash lamina
gy GN
middle Eocene
PAL

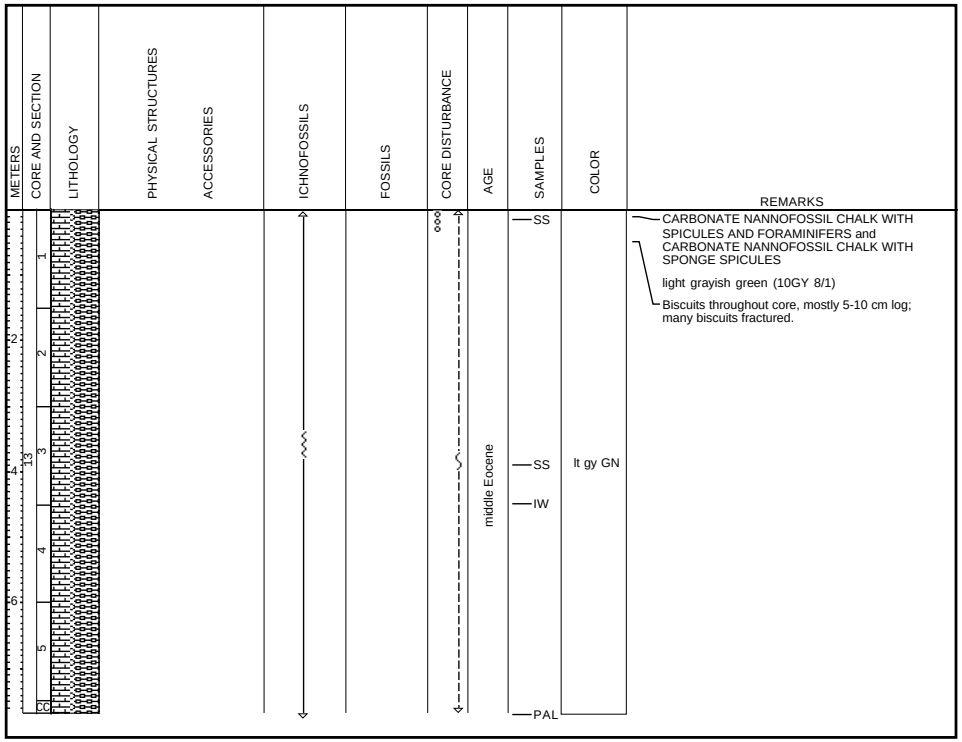
1050A-12X

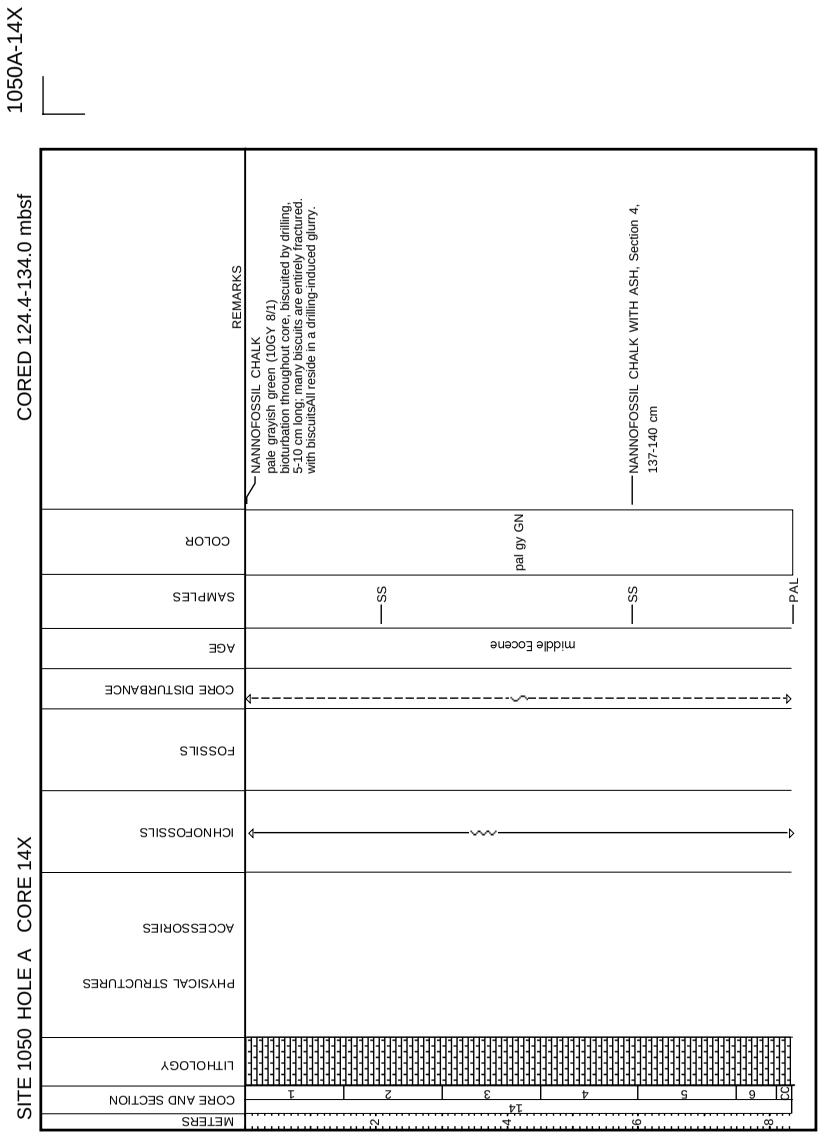
1050A-13X

SITE 1050 HOLE A CORE 12X CORED 105.2-114.8 mbsf



SITE 1050 HOLE A CORE 13X CORED 114.80-124.40 mbsf

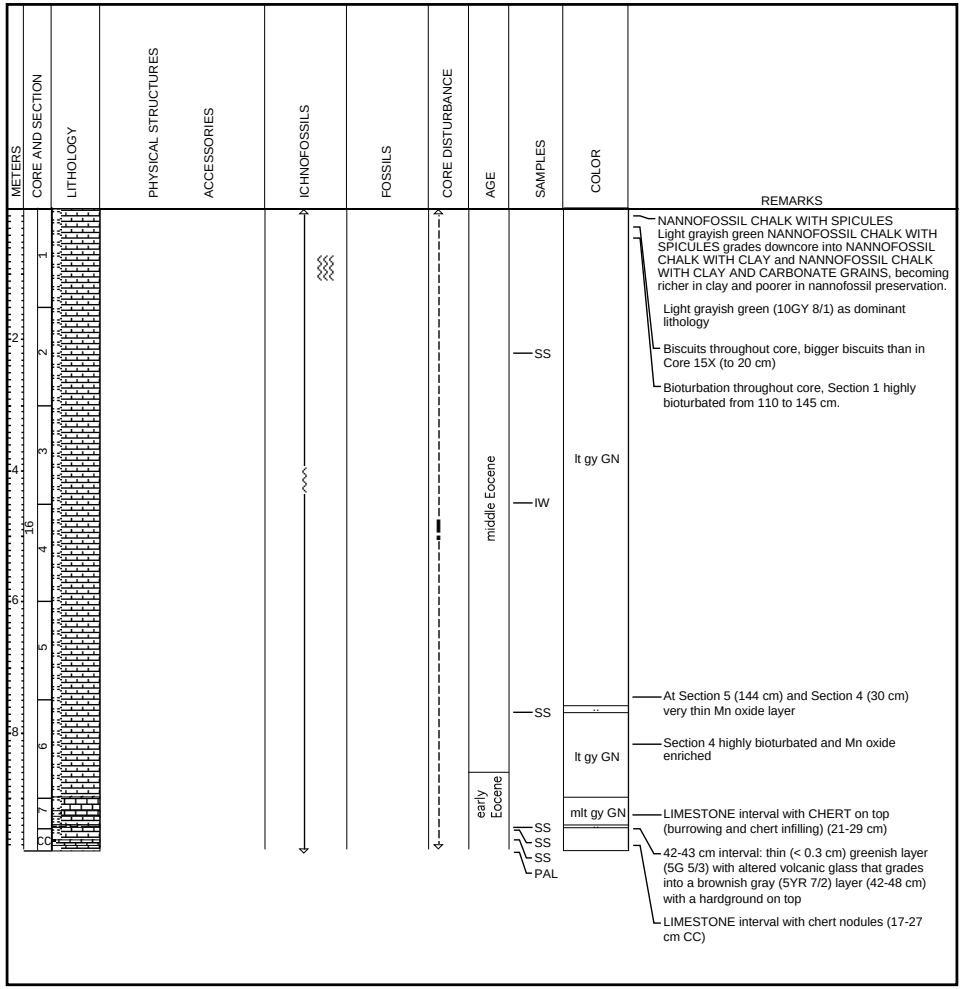



1050A-14X
SITE 1050 HOLE A CORE 14X
CORED 124.4-134.0 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
NANNOFOSSIL CHALK
pale grayish green (10GY 8/1)
bioturbation throughout core, biscuited by drilling,
5-10 cm long; many biscuits are entirely fractured,
with biscuitsAll reside in a drilling-induced slurry.
NANNOFOSSIL CHALK WITH ASH, Section 4,
137-140 cm
middle Eocene
pal gy GN
SS
SS
PAL
1
2
3
4
5
6
CC
14
2
4
6
8

SITE 1050 HOLE A CORE 15X CORED 134.0-143.6 mbsf

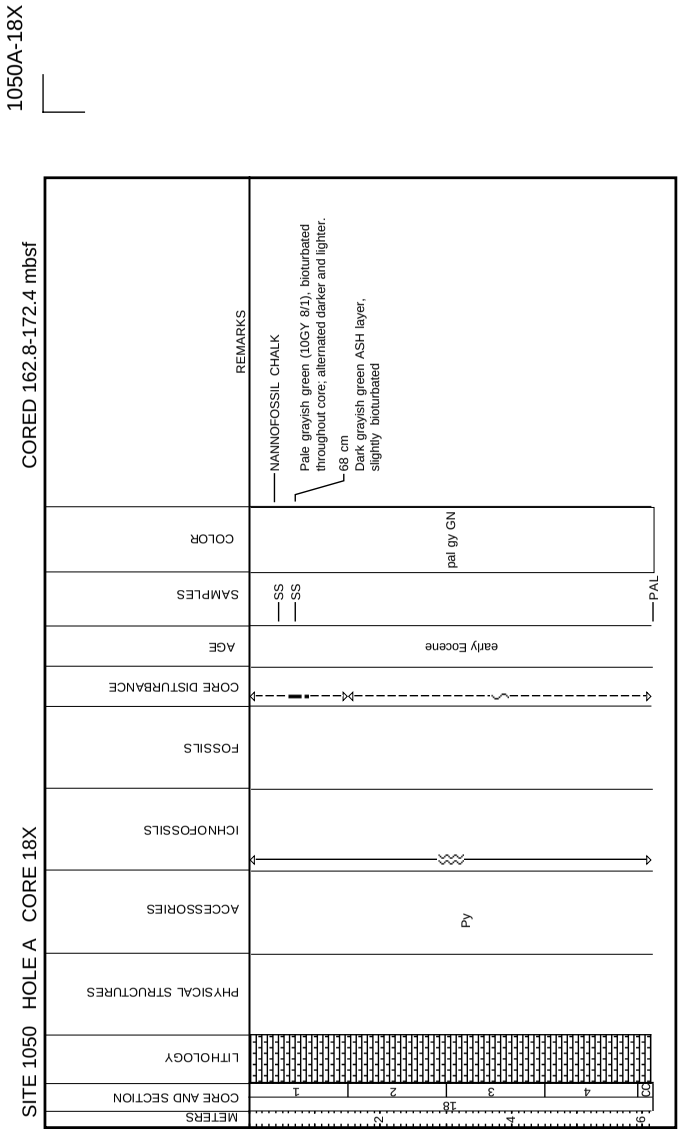
1050A-15X

SITE 1050 HOLE A CORE 16X CORED 143.60-153.20 mbsf

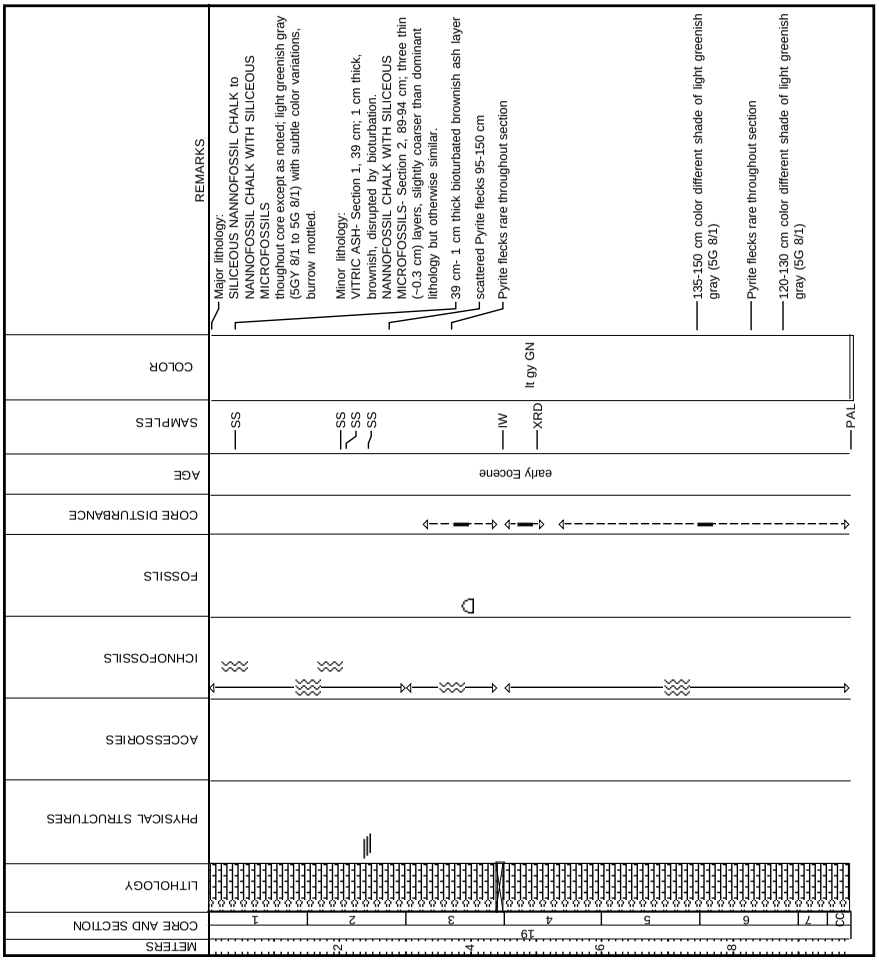


SITE 1050 HOLE A CORE 17X CORED 153.2-162.8 mbsf

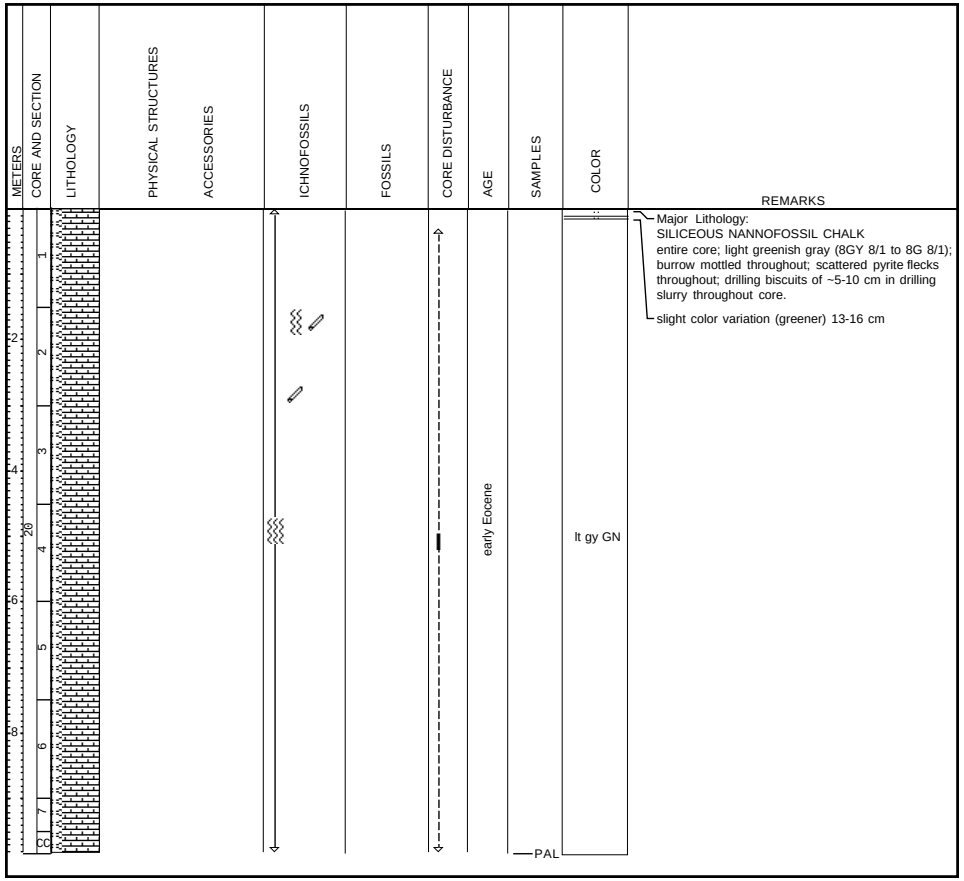
1050A-17X

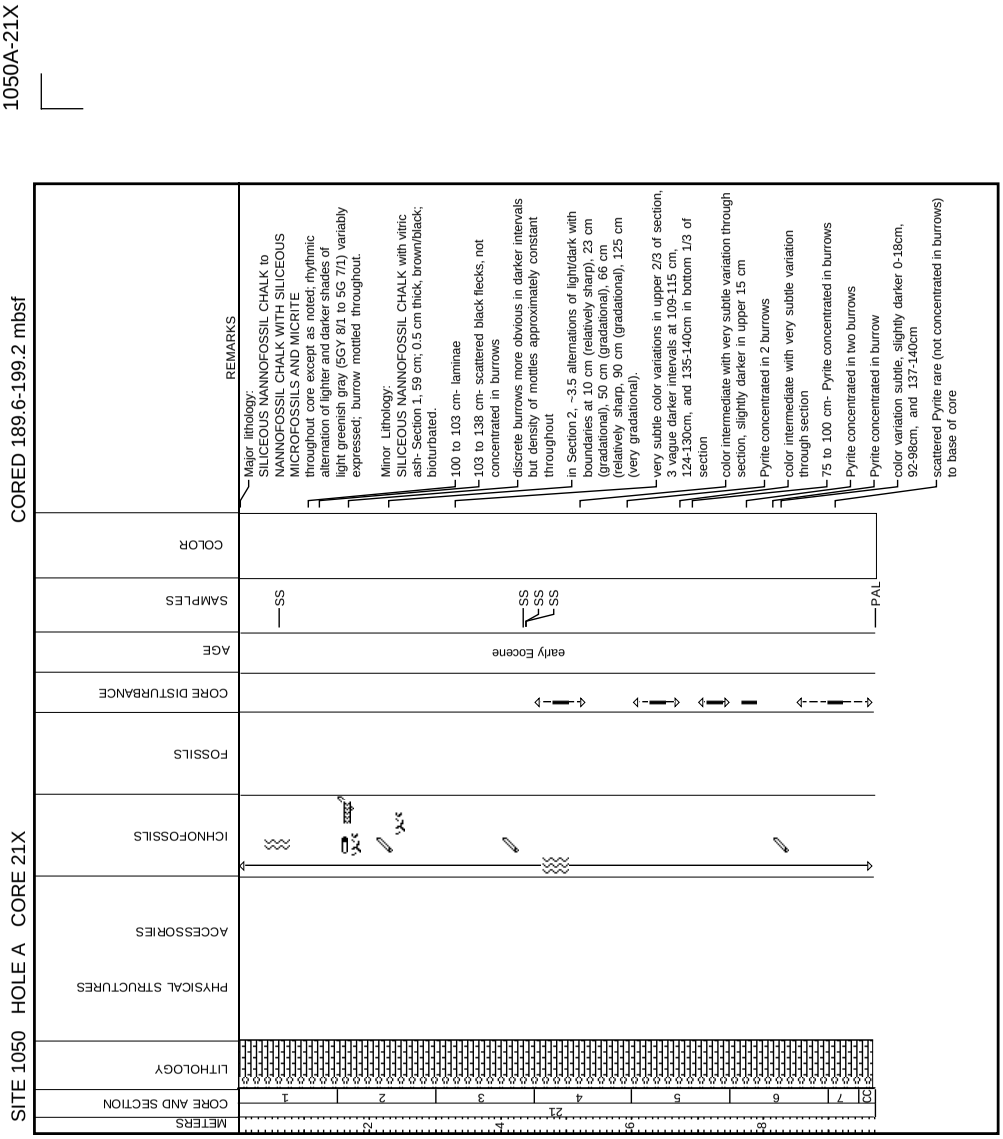

1050A-18X
SITE 1050 HOLE A CORE 18X
CORED 162.8-172.4 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
NANNOFOSSIL CHALK
Pale grayish green (10GY 8/1), bioturbated throughout core; alternated darker and lighter.
68 cm
Dark grayish green ASH layer, slightly bioturbated
pal gy GN
SS
SS
PAL
early Eocene
Py
1
2
3
4
CC
18
19

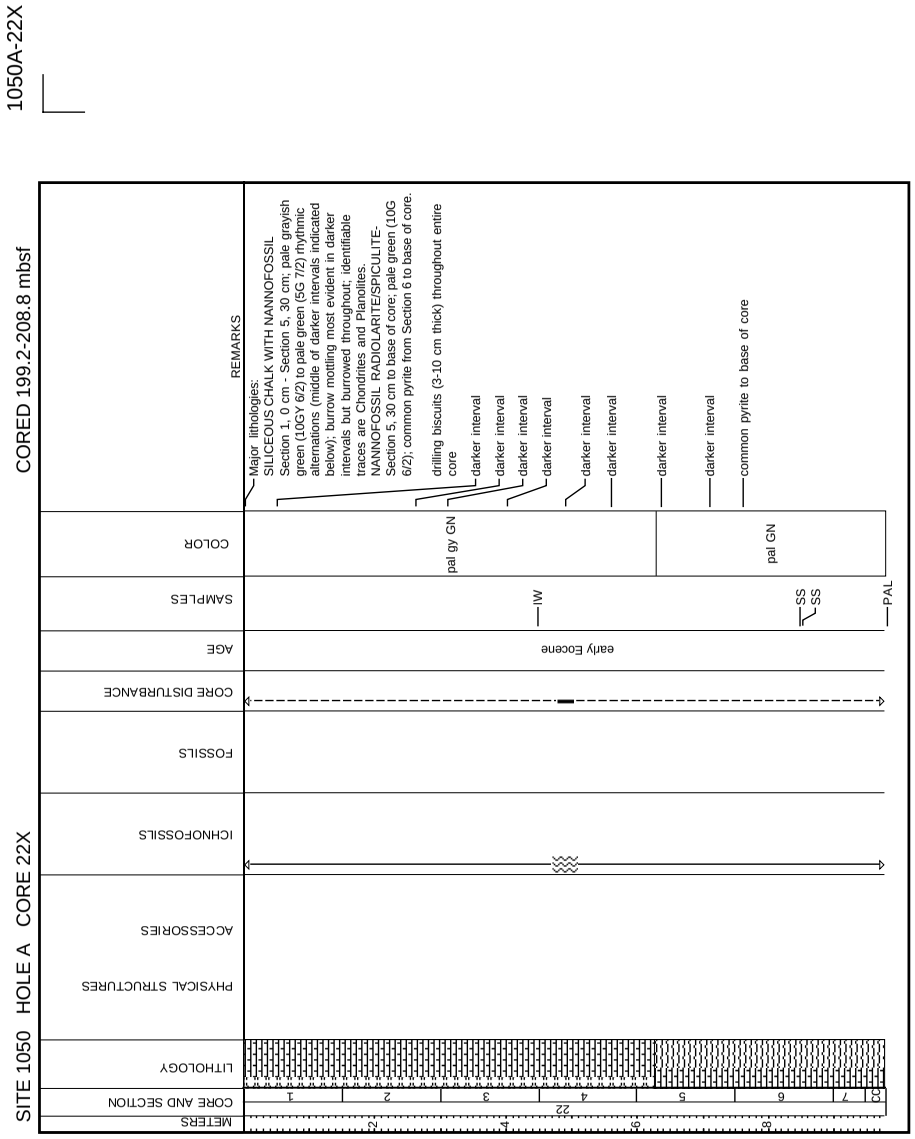
1050A-19X


SITE 1050 HOEL A CORE 19X
CORED 172.4-182.0 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
1
2
3
4
5
6
7
CC
19
SS
SS
SS
SS
IW
XRD
PAL
lt gy GN
early Eocene
Major lithology:
SILICEOUS NANNOFOSSIL CHALK to NANNOFOSSIL CHALK WITH SILICEOUS MICROFOSSILS
throughout core except as noted; light greenish gray (5GY 8/1 to 5G 8/1) with subtle color variations, burrow mottled.
Minor lithology:
VITRIC ASH- Section 1, 39 cm; 1 cm thick, brownish, disrupted by bioturbation.
NANNOFOSSIL CHALK WITH SILICEOUS MICROFOSSILS- Section 2, 89-94 cm; three thin (~0.3 cm) layers, slightly coarser than dominant lithology but otherwise similar.
39 cm- 1 cm thick bioturbated brownish ash layer
scattered Pyrite flecks 95-150 cm
Pyrite flecks rare throughout section
135-150 cm color different shade of light greenish gray (5G 8/1)
Pyrite flecks rare throughout section
120-130 cm color different shade of light greenish gray (5G 8/1)

SITE 1050 HOLE A CORE 20X CORED 182.0-189.6 mbsf



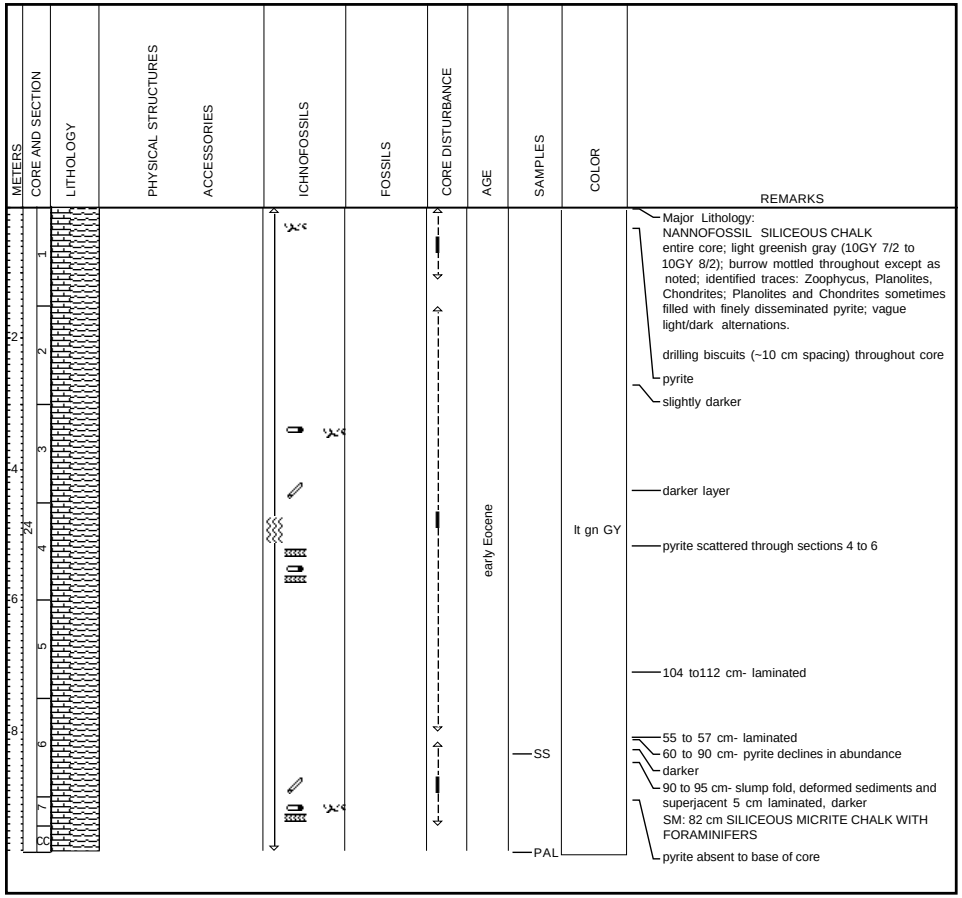

1050A-21X
SITE 1050 HOLE A CORE 21X
CORED 189.6-199.2 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
early Eocene
SS
PAL
Major lithology:
SILICEOUS NANNOFOSSIL CHALK to NANNOFOSSIL CHALK WITH SILICEOUS MICROFOSSILS AND MICRITE
throughout core except as noted; rhythmic alternation of lighter and darker shades of light greenish gray (5GY 8/1 to 5G 7/1) variably expressed; burrow mottled throughout.
Minor Lithology:
SILICEOUS NANNOFOSSIL CHALK with vitric ash- Section 1, 59 cm; 0.5 cm thick, brown/black; bioturbated.
100 to 103 cm- laminae
103 to 138 cm- scattered black flecks, not concentrated in burrows
discrete burrows more obvious in darker intervals but density of mottles approximately constant throughout
in Section 2, ~3.5 alternations of light/dark with boundaries at 10 cm (relatively sharp), 23 cm (gradational), 50 cm (gradational), 66 cm (relatively sharp), 90 cm (gradational), 125 cm (very gradational).
very subtle color variations in upper 2/3 of section, 3 vague darker intervals at 109-115 cm, 124-130cm, and 135-140cm in bottom 1/3 of section
color intermediate with very subtle variation through section, slightly darker in upper 15 cm
Pyrite concentrated in 2 burrows
color intermediate with very subtle variation through section
75 to 100 cm- Pyrite concentrated in burrows
Pyrite concentrated in two burrows
Pyrite concentrated in burrow
color variation subtle, slighty darker 0-18cm, 92-98cm, and 137-140cm
scattered Pyrite rare (not concentrated in burrows) to base of core


1050A-22X
SITE 1050 HOLE A CORE 22X
CORED 199.2-208.8 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
Major lithologies:
SILICEOUS CHALK WITH NANNOFOSSIL
Section 1, 0 cm - Section 5, 30 cm: pale grayish green (10GY 6/2) to pale green (5G 7/2) rhythmic alternations (middle of darker intervals indicated below); burrow mottling most evident in darker intervals but burrowed throughout; identifiable traces are Chondrites and Planolites.
NANNOFOSSIL RADIOLARITE/SPICULITE-
Section 5, 30 cm to base of core; pale green (10G 6/2); common pyrite from Section 6 to base of core.
drilling biscuits (3-10 cm thick) throughout entire core
darker interval
darker interval
darker interval
darker interval
darker interval
darker interval
darker interval
darker interval
common pyrite to base of core
pal gy GN
pal GN
early Eocene
IW
SS
SS
PAL
1
2
3
4
5
6
7
CC
22
0
2
4
6
8

SITE 1050 HOLE A CORE 23X CORED 208.8-218.4 mbsf

1050A-23X

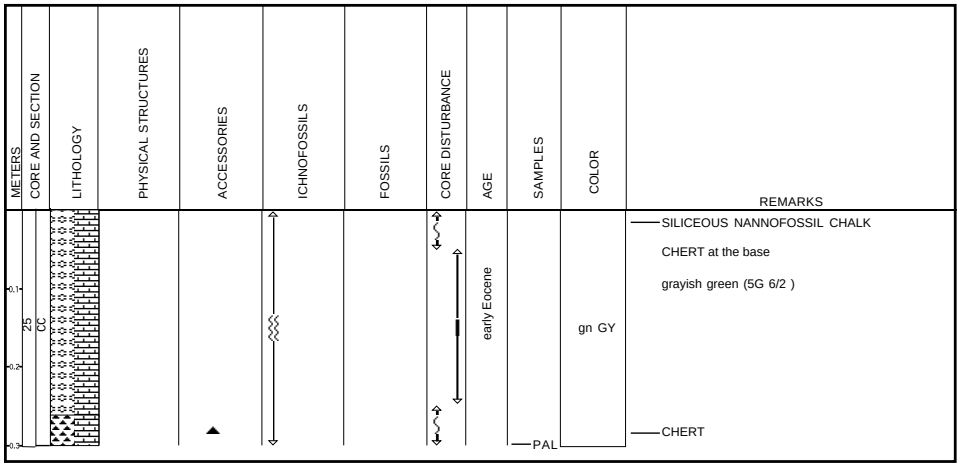
SITE 1050 HOLE A CORE 24X — CORED 218.4-228.0 mbsf



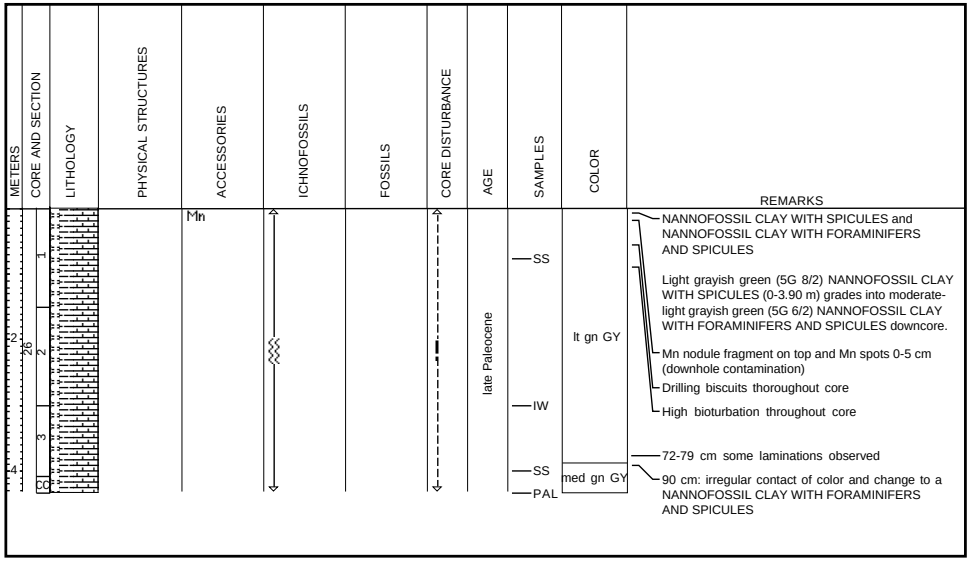
1050A-25X

1050A-26X

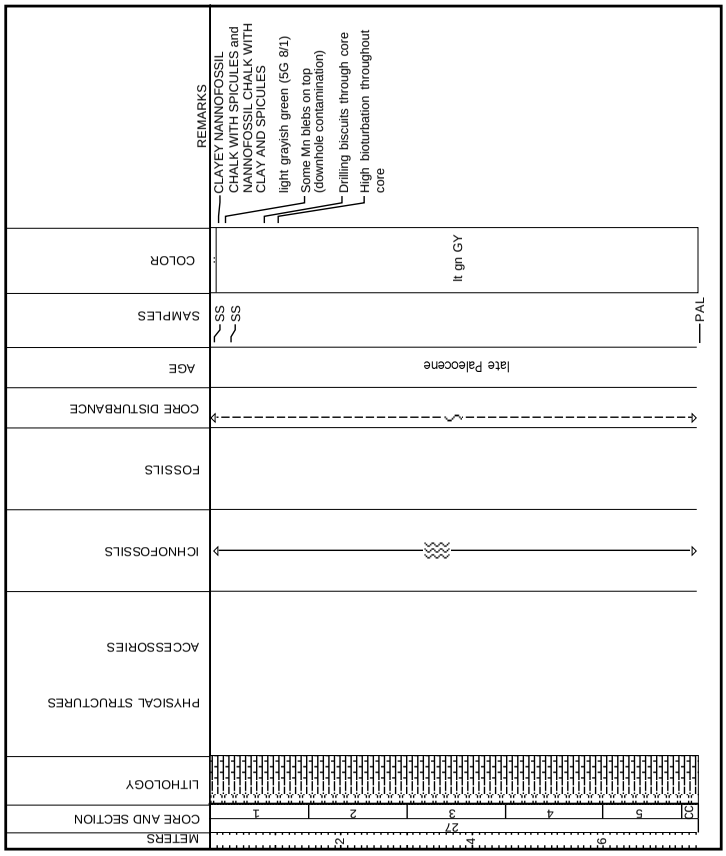
SITE 1050 HOLE A CORE 25X CORED 228.0-237.7 mbsf



SITE 1050 HOLE A CORE 26X CORED 237.7-241.7 mbsf



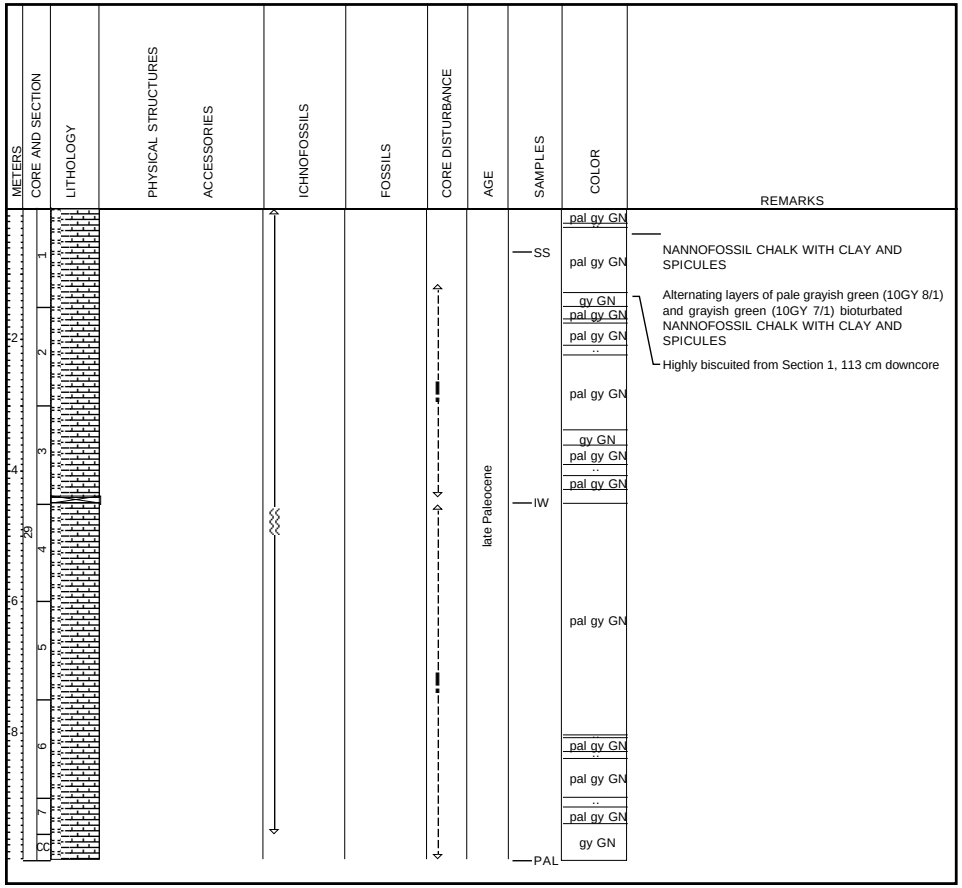
1050A-27X


SITE 1050 HOLE A CORE 27X
CORED 241.7-247.3 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
CLAYEY NANNOFOSSIL CHALK WITH SPICULES and NANNOFOSSIL CHALK WITH CLAY AND SPICULES
light grayish green (5G 8/1)
Some Mn blebs on top (downhole contamination)
Drilling biscuits through core
High bioturbation throughout core
lt gn GY
late Paleocene
SS
SS
PAL
1
2
3
4
5
CC

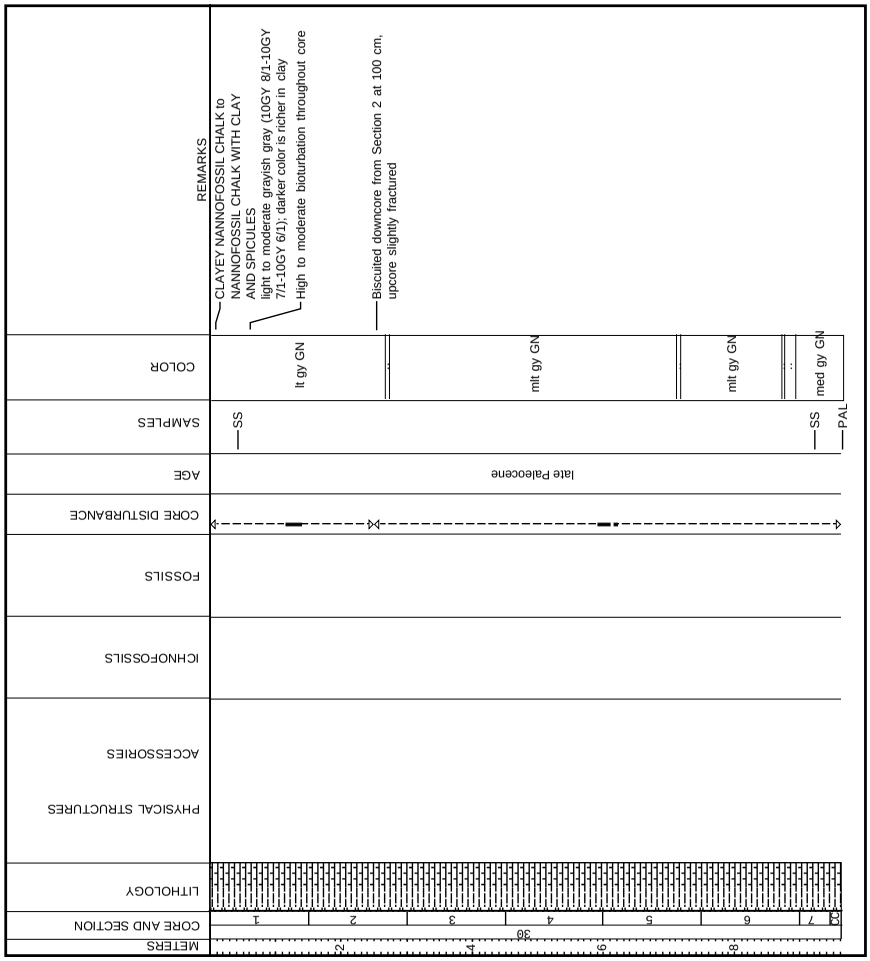
SITE 1050 HOLE A CORE 28X CORED 247.3-256.9 mbsf

1050A-28X

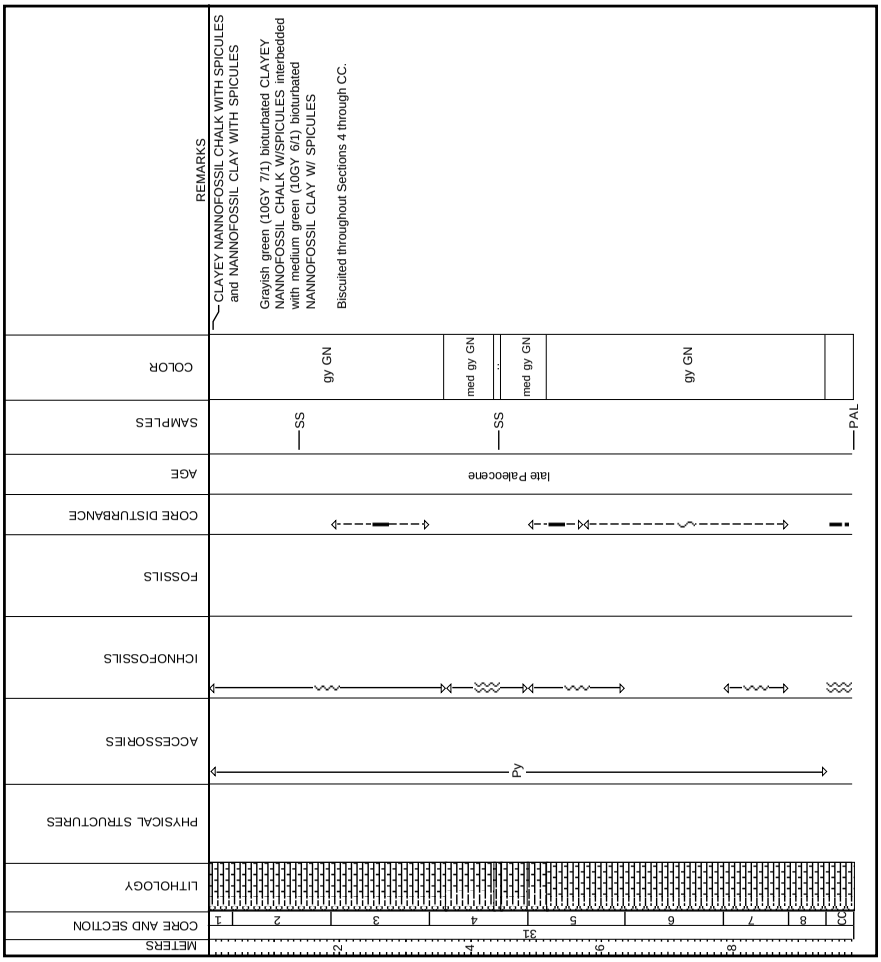
SITE 1050 HOLE A CORE 29X CORED 256.9-266.5 mbsf



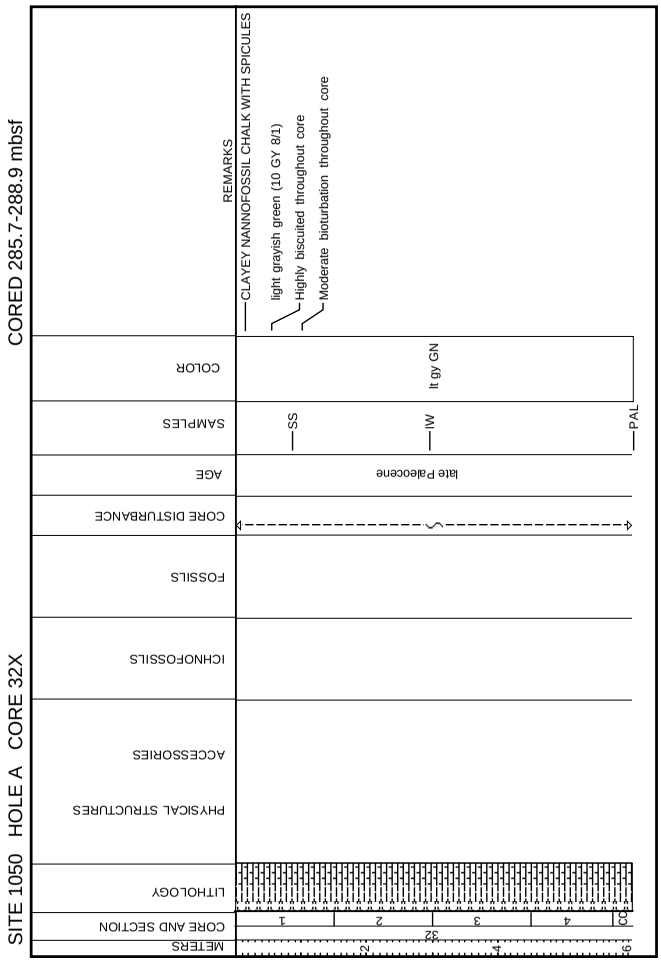
1050A-30X

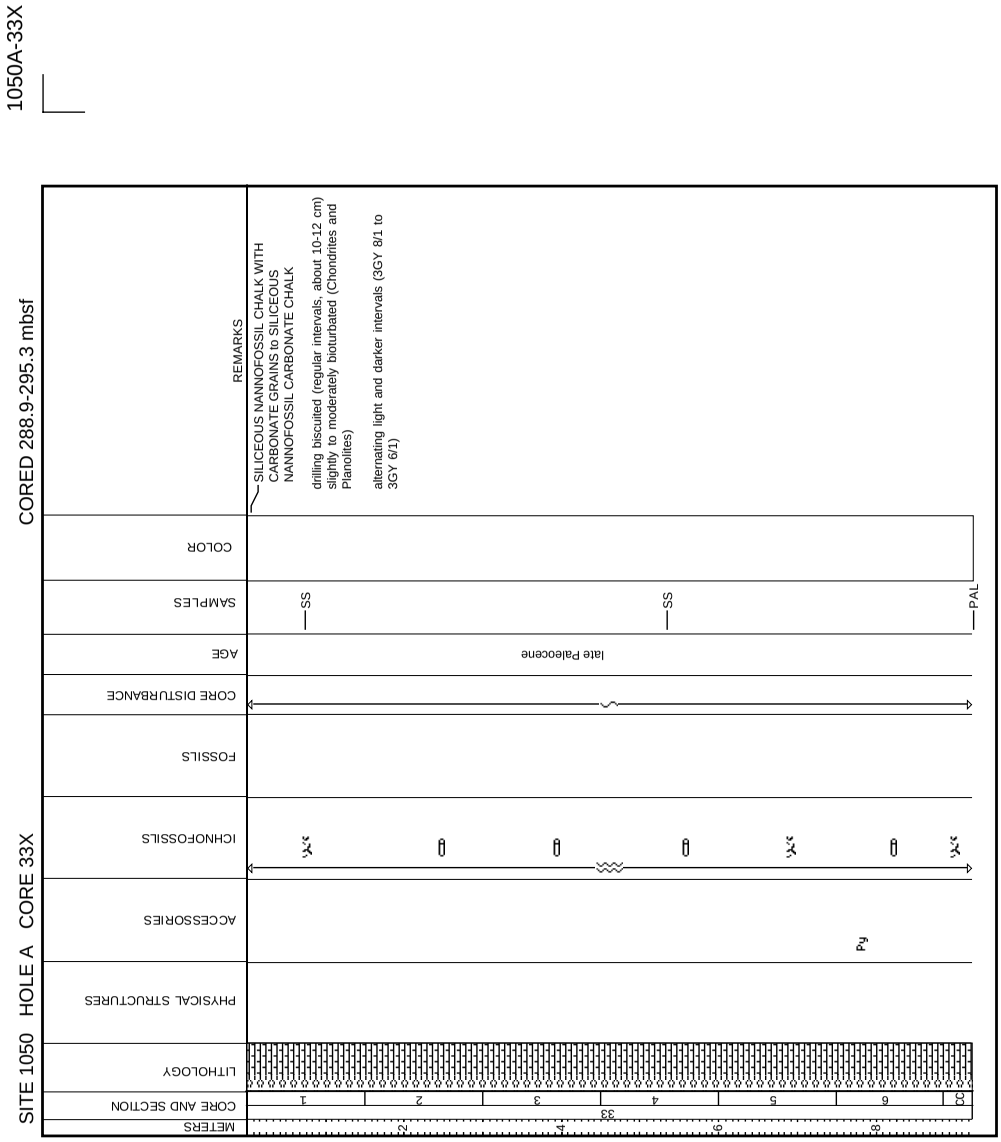

SITE 1050 HOLE A CORE 30X
CORED 266.5-276.1 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
late Paleocene
SS
SS
PAL
lt gy GN
mlt gy GN
mlt gy GN
med gy GN
CLAYEY NANNOFOSSIL CHALK to NANNOFOSSIL CHALK WITH CLAY AND SPICULES
light to moderate grayish gray (10GY 8/1-10GY 7/1-10GY 6/1); darker color is richer in clay
High to moderate bioturbation throughout core
Biscuited downcore from Section 2 at 100 cm, upcore slightly fractured

1050A-31X

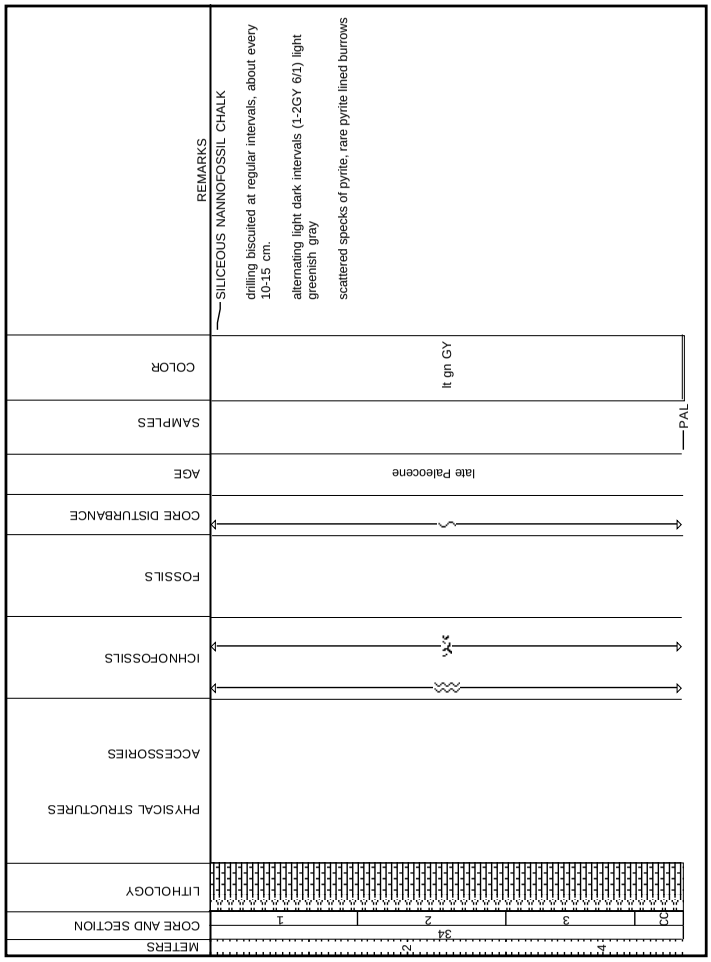

SITE 1050 HOLE A CORE 31X
CORED 276.1-285.7 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
CLAYEY NANNOFOSSIL CHALK WITH SPICULES and NANNOFOSSIL CLAY WITH SPICULES
Grayish green (10GY 7/1) bioturbated CLAYEY NANNOFOSSIL CHALK W/SPICULES interbedded with medium green (10GY 6/1) bioturbated NANNOFOSSIL CLAY W/ SPICULES
Biscuited throughout Sections 4 through CC.
gy GN
med gy GN
med gy GN
gy GN
late Paleocene
SS
SS
PAL
Py
31
CC

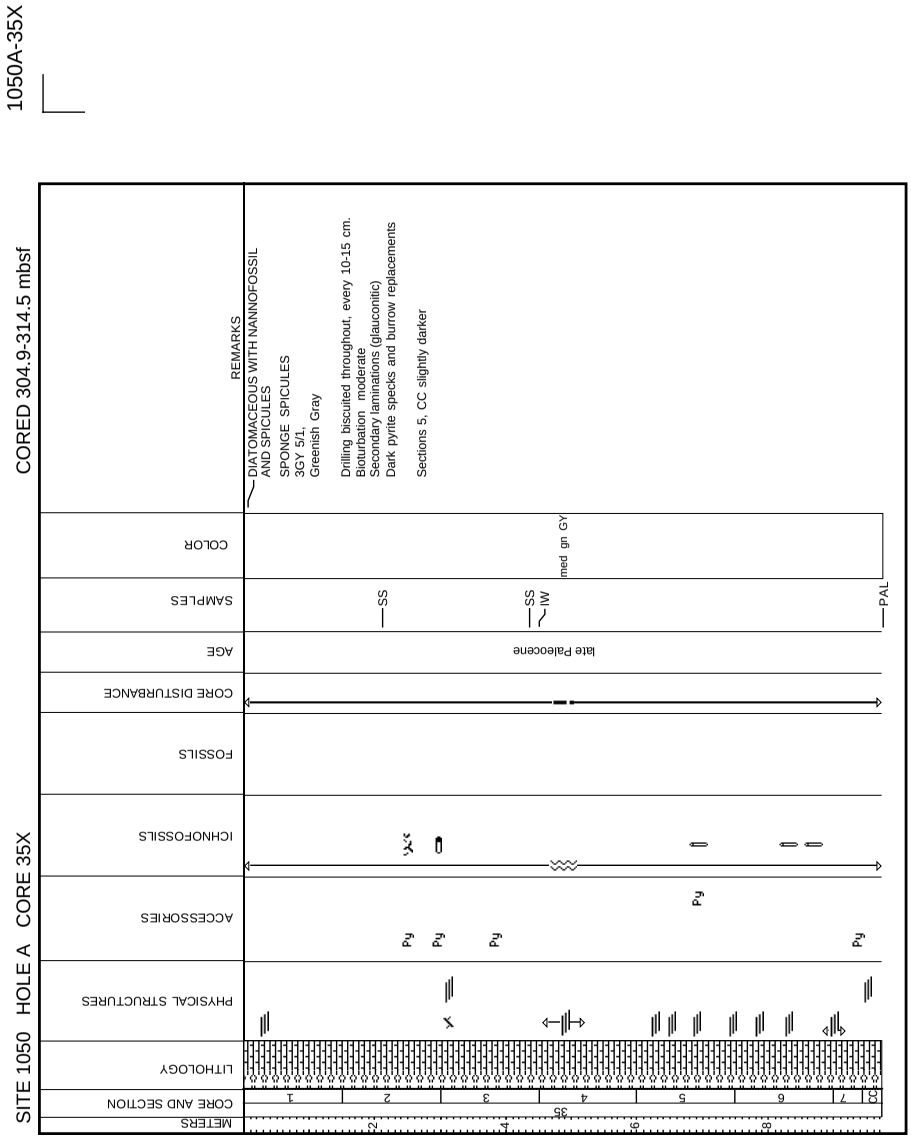
1050A-32X


SITE 1050 HOLE A CORE 32X
CORED 285.7-288.9 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
CLAYEY NANNOFOSSIL CHALK WITH SPICULES
light grayish green (10 GY 8/1)
Highly biscuited throughout core
Moderate bioturbation throughout core
SS
IW
PAL
lt gy GN
late Paleocene
1
2
32
3
4
CC

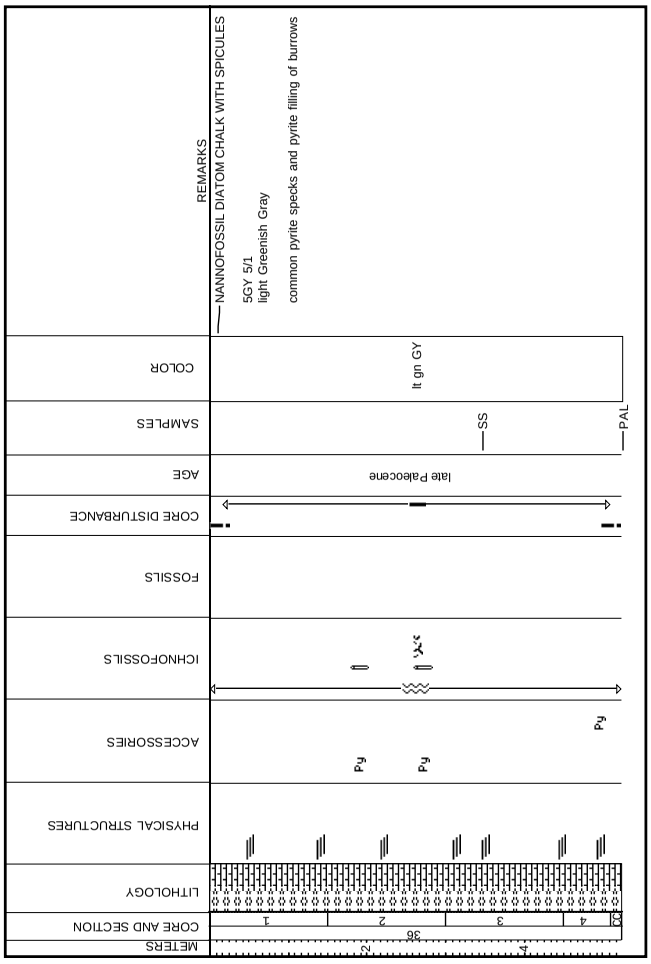

1050A-33X
CORED 288.9-295.3 mbsf
SITE 1050 HOLE A CORE 33X
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
SILICEOUS NANNOFOSSIL CHALK WITH CARBONATE GRAINS to SILICEOUS NANNOFOSSIL CARBONATE CHALK
drilling biscuited (regular intervals, about 10-12 cm) slightly to moderately bioturbated (Chondrites and Planolites)
alternating light and darker intervals (3GY 8/1 to 3GY 6/1)
late Paleocene
SS
SS
PAL
Py
1
2
3
4
5
6
CC
33

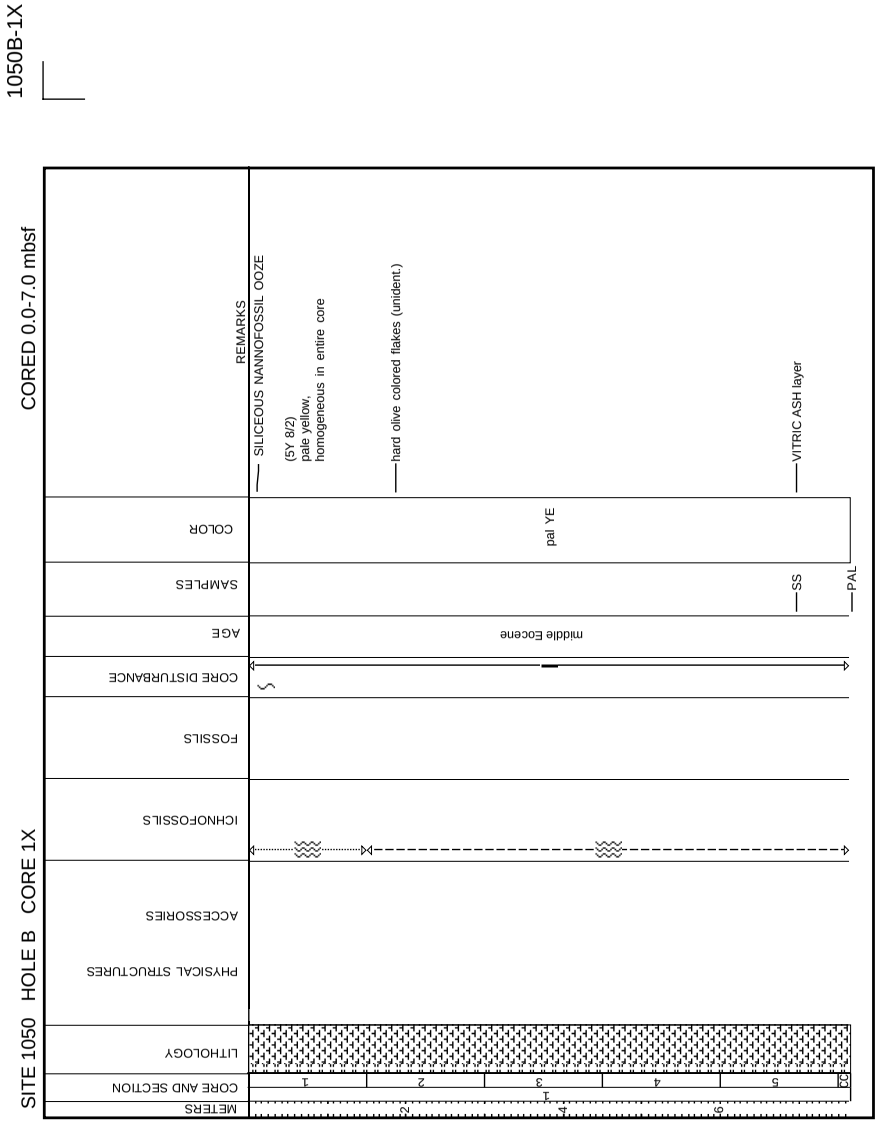
1050A-34X

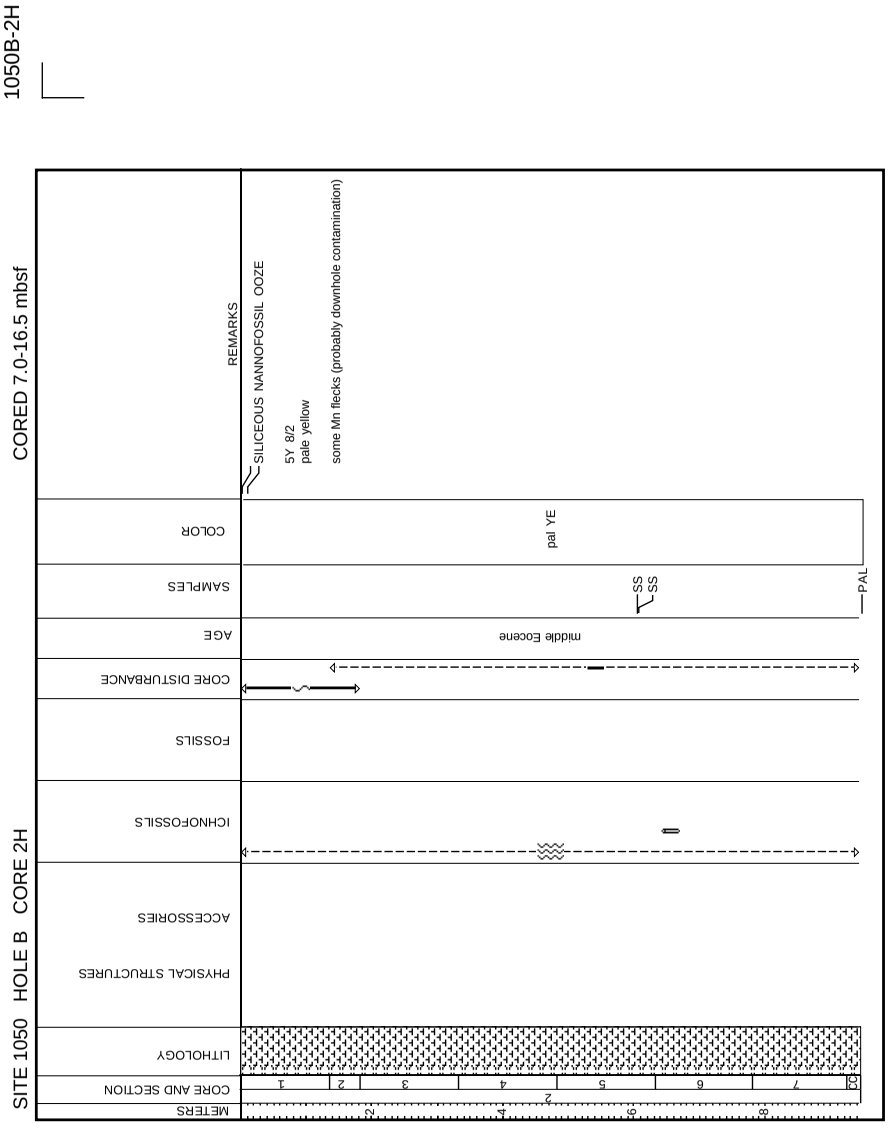

SITE 1050 HOLE A CORE 34X
CORED 295.3-304.9 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
SILICEOUS NANNOFOSSIL CHALK
drilling biscuited at regular intervals, about every 10-15 cm.
alternating light dark intervals (1-2GY 6/1) light greenish gray
scattered specks of pyrite, rare pyrite lined burrows
lt gn GY
late Paleocene
PAL
1
2
3
4
CC

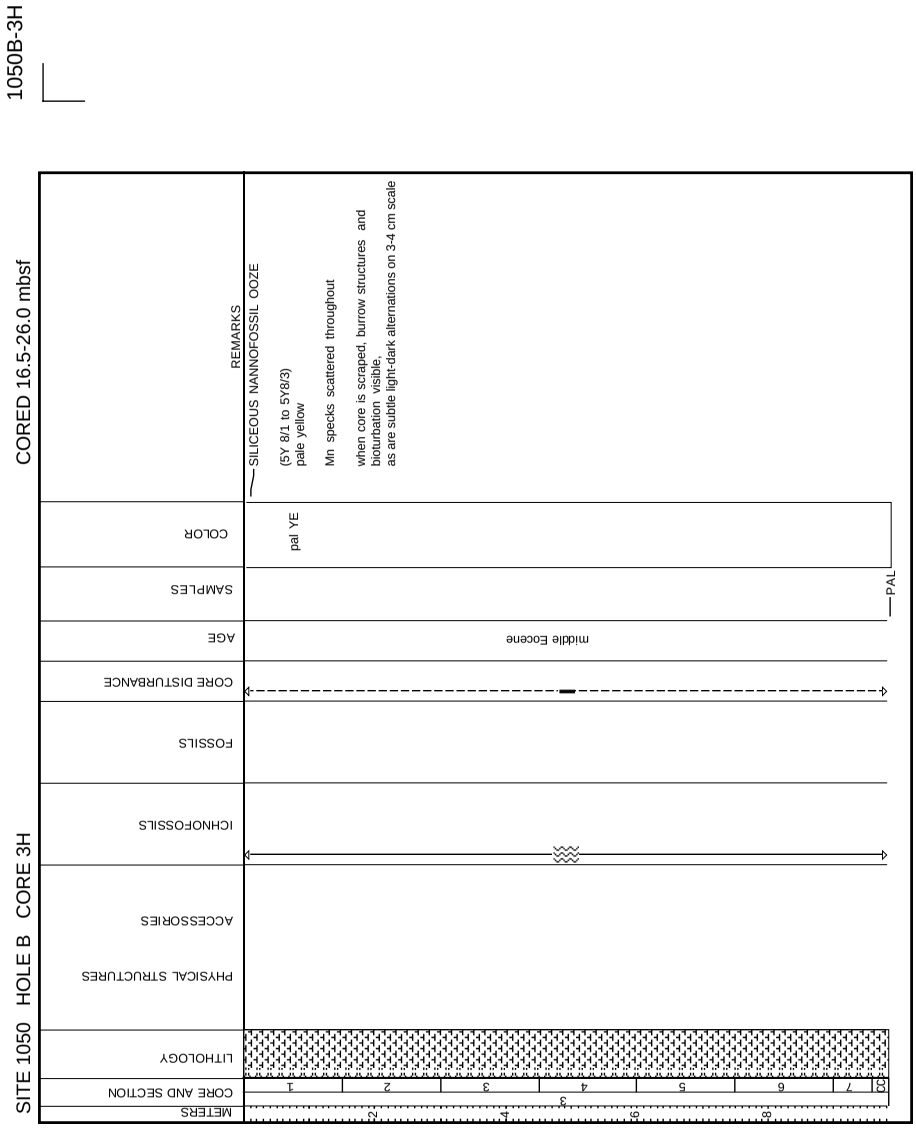

1050A-35X
SITE 1050 HOLE A CORE 35X
CORED 304.9-314.5 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
DIATOMACEOUS WITH NANNOFOSSIL AND SPICULES
SPONGE SPICULES
3GY 5/1,
Greenish Gray
Drilling biscuited throughout, every 10-15 cm.
Bioturbation moderate
Secondary laminations (glauconitic)
Dark pyrite specks and burrow replacements
Sections 5, CC slightly darker
late Paleocene
SS
SS
IW
PAL
med gn GY
Py
Py
Py
Py
Py
1
2
3
4
5
6
7
CC

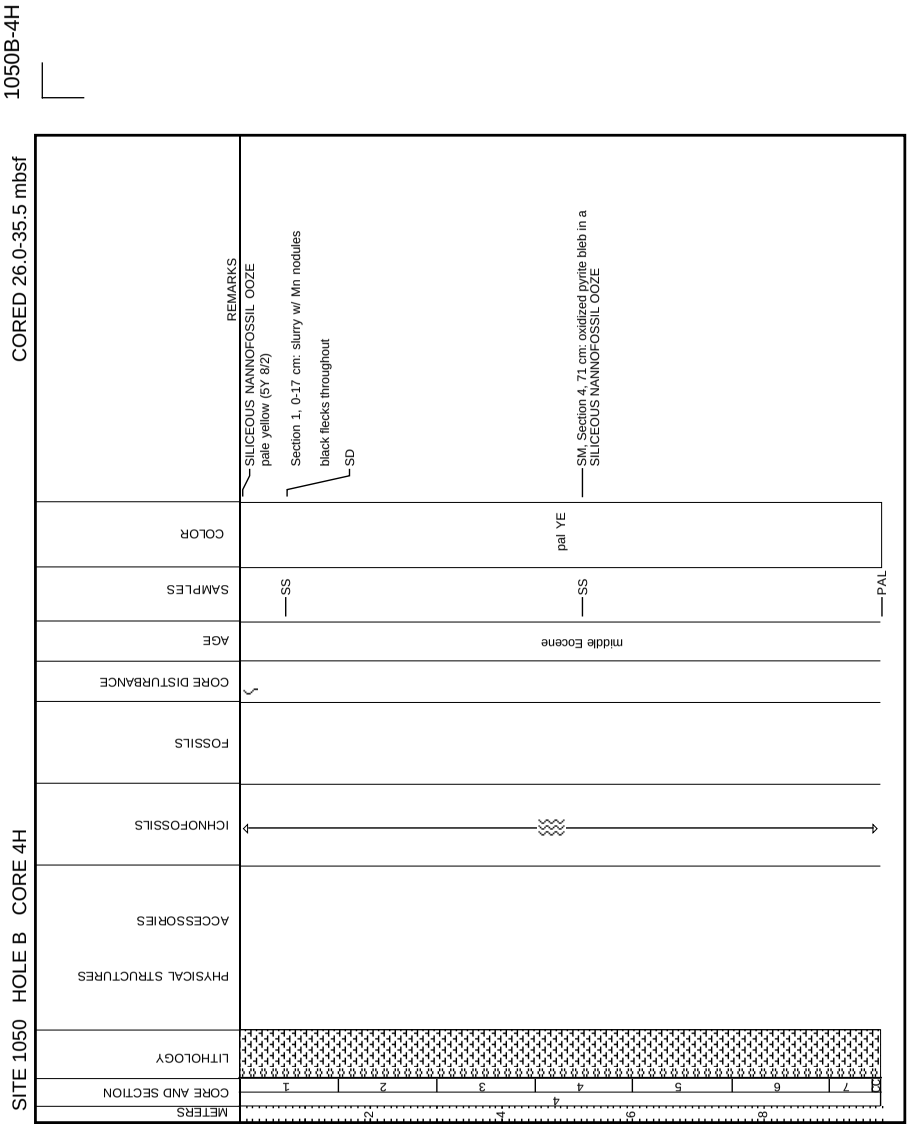
1050A-36X

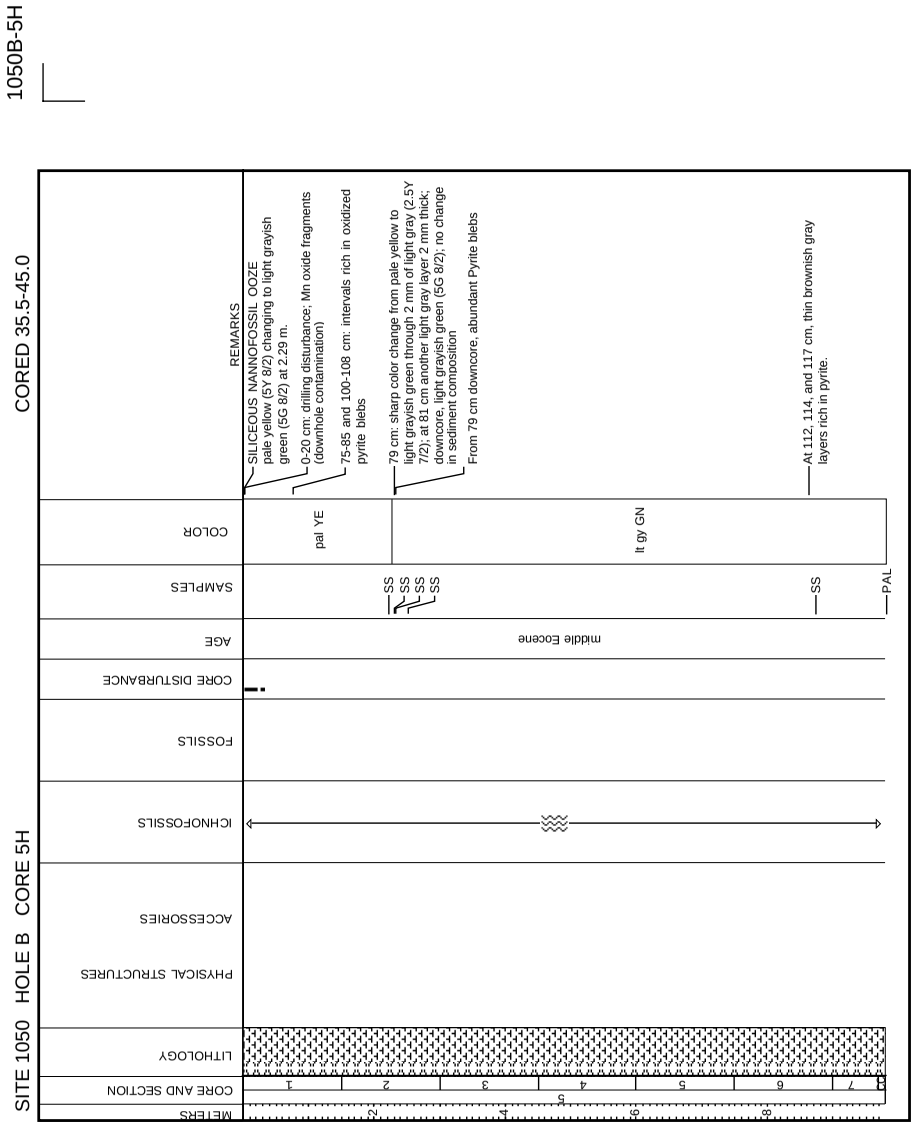

SITE 1050 HOLE A CORE 36X
CORED 314.5-319.9 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
NANNOFOSSIL DIATOM CHALK WITH SPICULES
5GY 5/1
light Greenish Gray
common pyrite specks and pyrite filling of burrows
lt gn GY
late Paleocene
SS
PAL
Py
Py
Py
36
1
2
3
4
CC


1050B-1X
SITE 1050 HOLE B CORE 1X
CORED 0.0-7.0 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
SILICEOUS NANNOFOSSIL OOZE
(5Y 8/2)
pale yellow,
homogeneous in entire core
hard olive colored flakes (unident.)
VITRIC ASH layer
middle Eocene
SS
PAL
pal YE
1
2
3
4
5
CC

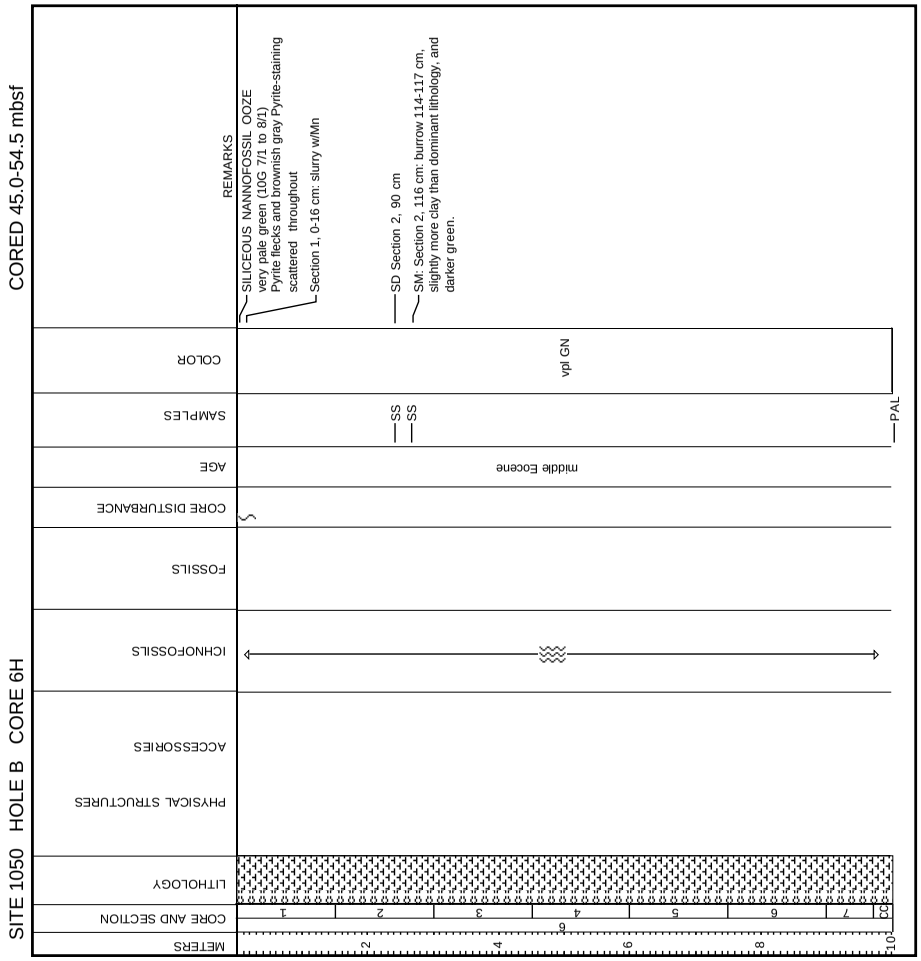

1050B-2H
SITE 1050 HOLE B CORE 2H
CORED 7.0-16.5 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
SILICEOUS NANNOFOSSIL OOZE
5Y 8/2
pale yellow
some Mn flecks (probably downhole contamination)
pal YE
middle Eocene
SS
SS
PAL
1
2
3
4
5
6
7
CC
0
2
4
6
8

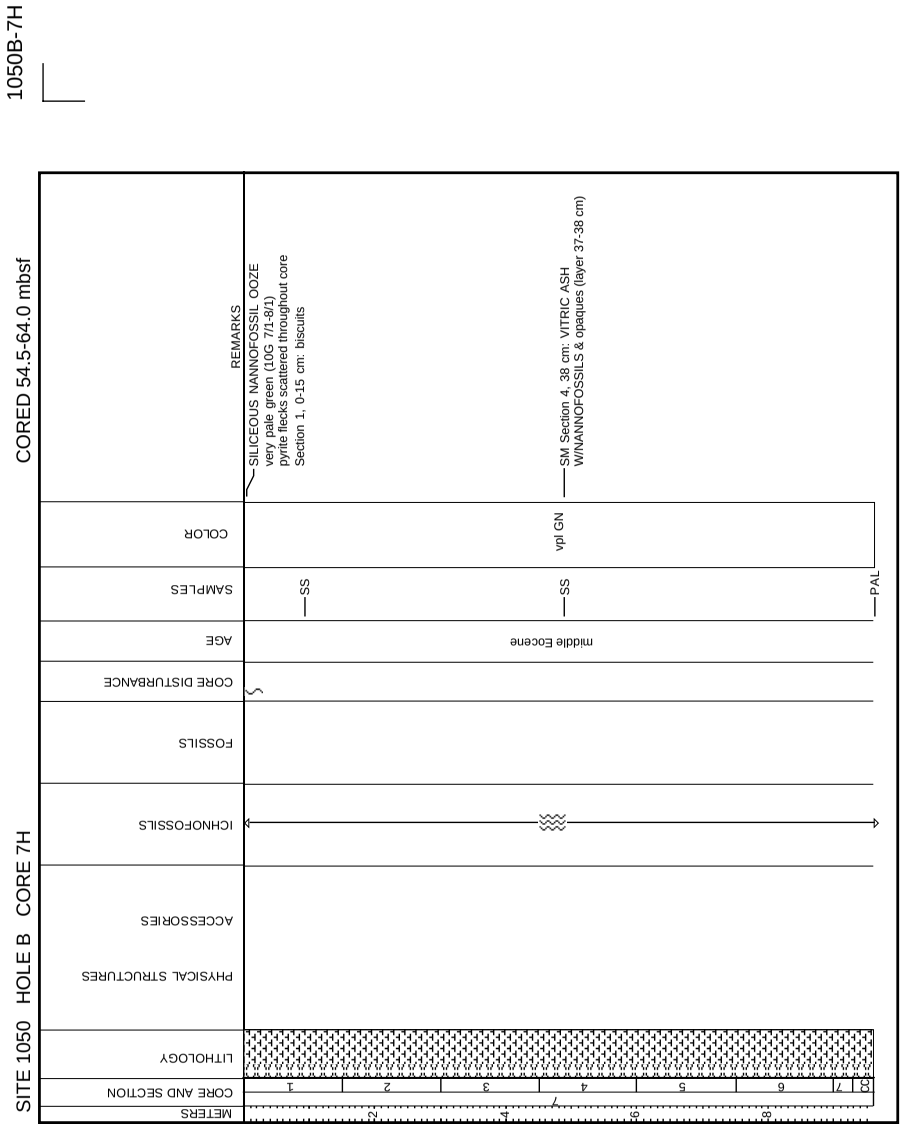

1050B-3H
SITE 1050 HOLE B CORE 3H
CORED 16.5-26.0 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
middle Eocene
PAL
SILICEOUS NANNOFOSSIL OOZE
(5Y 8/1 to 5Y8/3)
pale yellow
pal YE
Mn specks scattered throughout
when core is scraped, burrow structures and
bioturbation visible,
as are subtle light-dark alternations on 3-4 cm scale


1050B-4H
CORED 26.0-35.5 mbsf
SITE 1050 HOLE B CORE 4H
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
SILICEOUS NANNOFOSSIL OOZE
pale yellow (5Y 8/2)
Section 1, 0-17 cm: slurry w/ Mn nodules
black flecks throughout
SD
SM, Section 4, 71 cm: oxidized pyrite bleb in a
SILICEOUS NANNOFOSSIL OOZE
middle Eocene
SS
SS
PAL
pal YE
1
2
3
4
5
6
7
CC

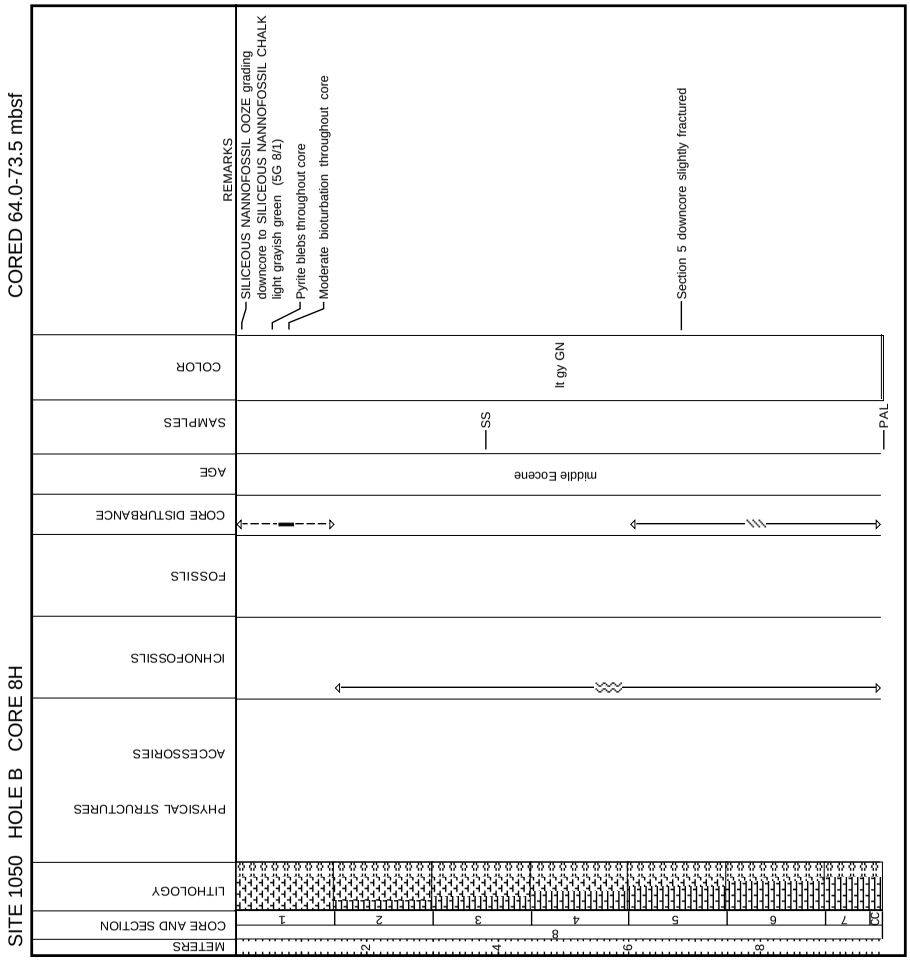

1050B-5H
SITE 1050 HOLE B CORE 5H
CORED 35.5-45.0
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
middle Eocene
pal YE
lt gy GN
SS
SS
SS
SS
SS
PAL
SILICEOUS NANNOFOSSIL OOZE
pale yellow (5Y 8/2) changing to light grayish green (5G 8/2) at 2.29 m.
0-20 cm: drilling disturbance; Mn oxide fragments (downhole contamination)
75-85 and 100-108 cm: intervals rich in oxidized pyrite blebs
79 cm: sharp color change from pale yellow to light grayish green through 2 mm of light gray (2.5Y 7/2); at 81 cm another light gray layer 2 mm thick; downcore, light grayish green (5G 8/2); no change in sediment composition
From 79 cm downcore, abundant Pyrite blebs
At 112, 114, and 117 cm, thin brownish gray layers rich in pyrite.

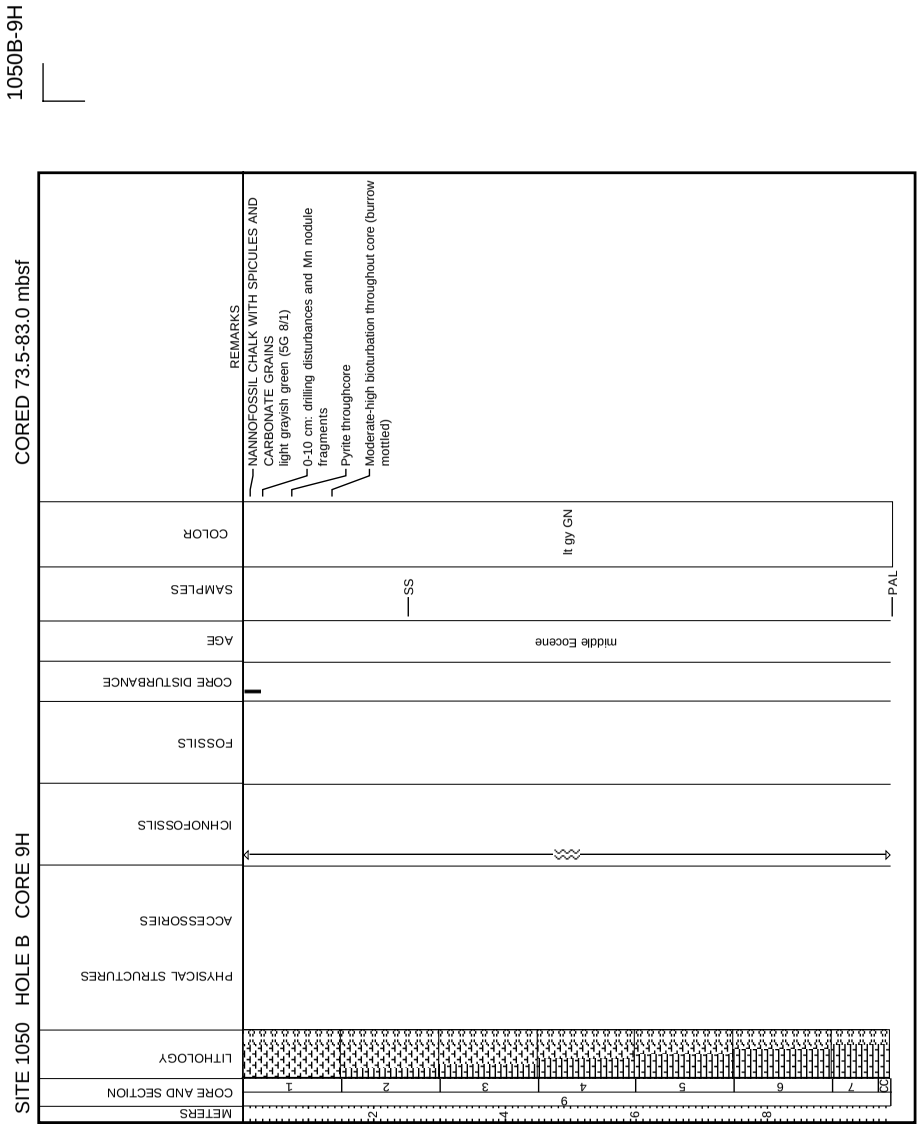
1050B-6H


SITE 1050 HOLE B CORE 6H
CORED 45.0-54.5 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
middle Eocene
SS
SS
PAL
vpl GN
SILICEOUS NANNOFOSSIL OOZE
very pale green (10G 7/1 to 8/1)
Pyrite flecks and brownish gray Pyrite-staining
scattered throughout
Section 1, 0-16 cm: slurry w/Mn
SD Section 2, 90 cm
SM: Section 2, 116 cm: burrow 114-117 cm,
slightly more clay than dominant lithology; and
darker green.

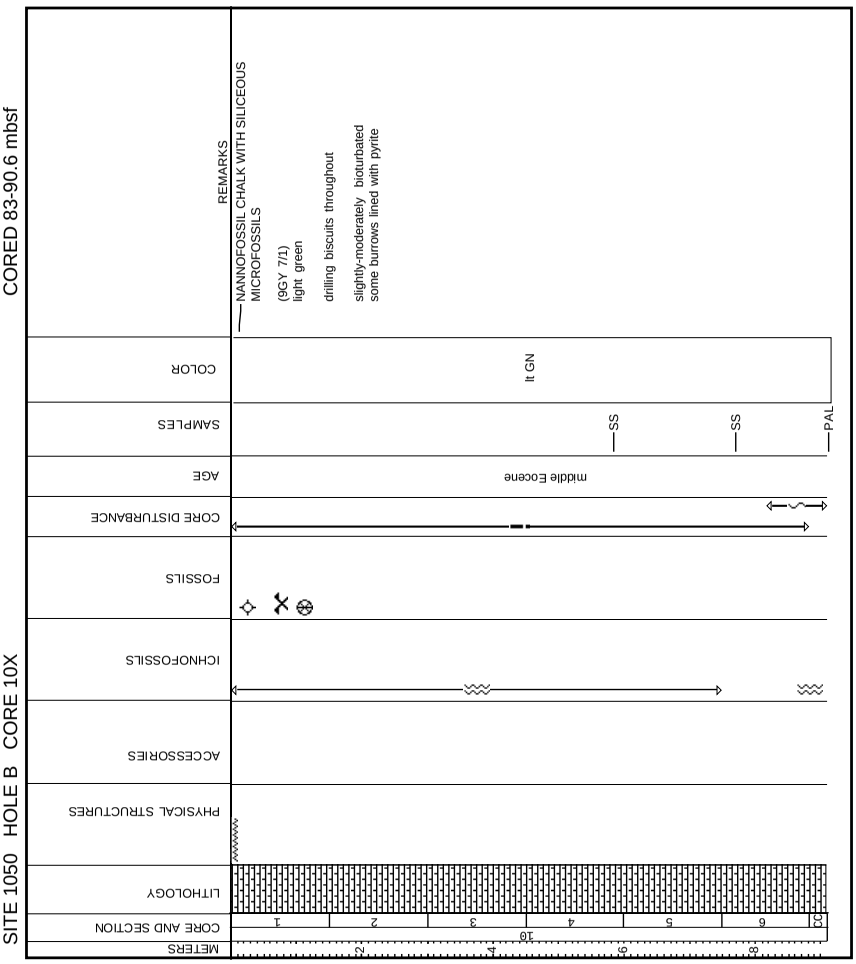

1050B-7H
SITE 1050 HOLE B CORE 7H
CORED 54.5-64.0 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
middle Eocene
SS
SS
PAL
vpl GN
SILICEOUS NANNOFOSSIL OOZE
very pale green (10G 7/1-8/1)
pyrite flecks scattered throughout core
Section 1, 0-15 cm: biscuits
SM Section 4, 38 cm: VITRIC ASH
W/NANNOFOSSILS & opaques (layer 37-38 cm)

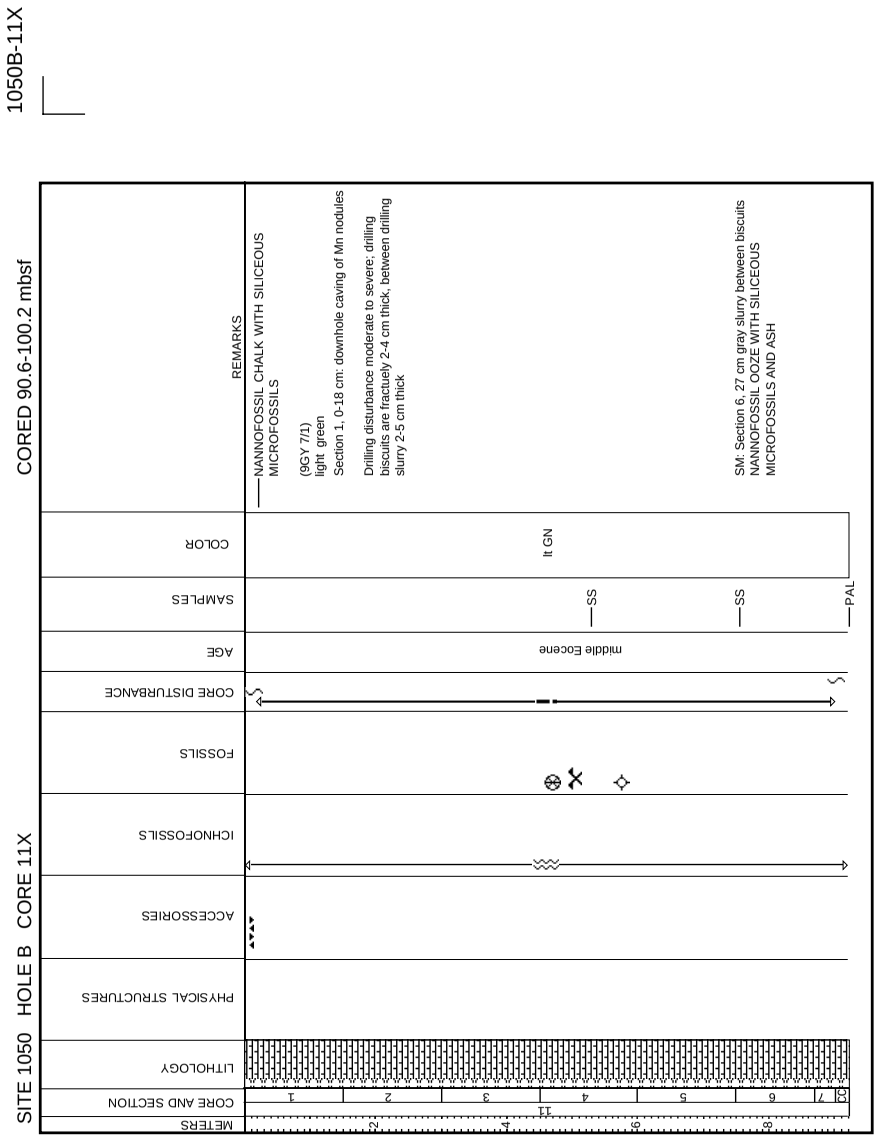
1050B-8H


SITE 1050 HOLE B CORE 8H
CORED 64.0-73.5 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
middle Eocene
SS
PAL
lt gy GN
SILICEOUS NANNOFOSSIL OOZE grading downcore to SILICEOUS NANNOFOSSIL CHALK light grayish green (5G 8/1)
Pyrite blebs throughout core
Moderate bioturbation throughout core
Section 5 downcore slightly fractured

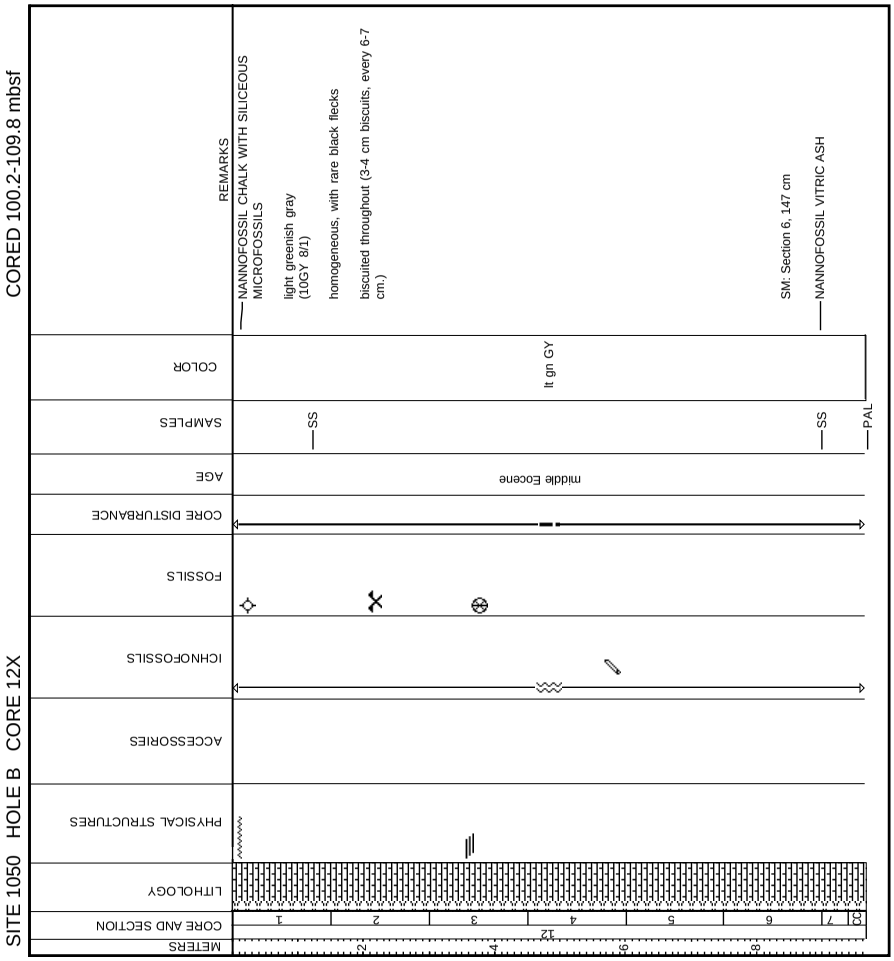

1050B-9H
SITE 1050 HOLE B CORE 9H
CORED 73.5-83.0 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
middle Eocene
SS
PAL
lt gy GN
NANNOFOSSIL CHALK WITH SPICULES AND CARBONATE GRAINS
light grayish green (5G 8/1)
0-10 cm: drilling disturbances and Mn nodule fragments
Pyrite throughcore
Moderate-high bioturbation throughout core (burrow mottled)

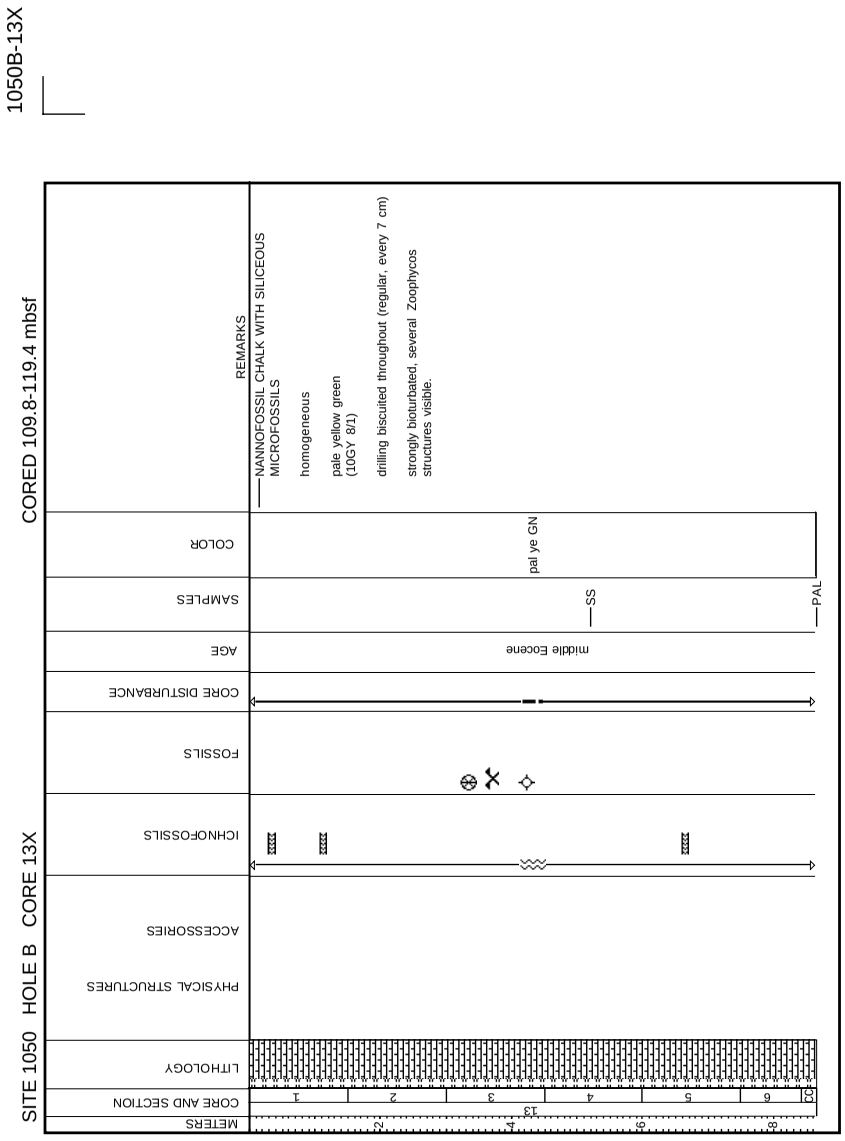
1050B-10X

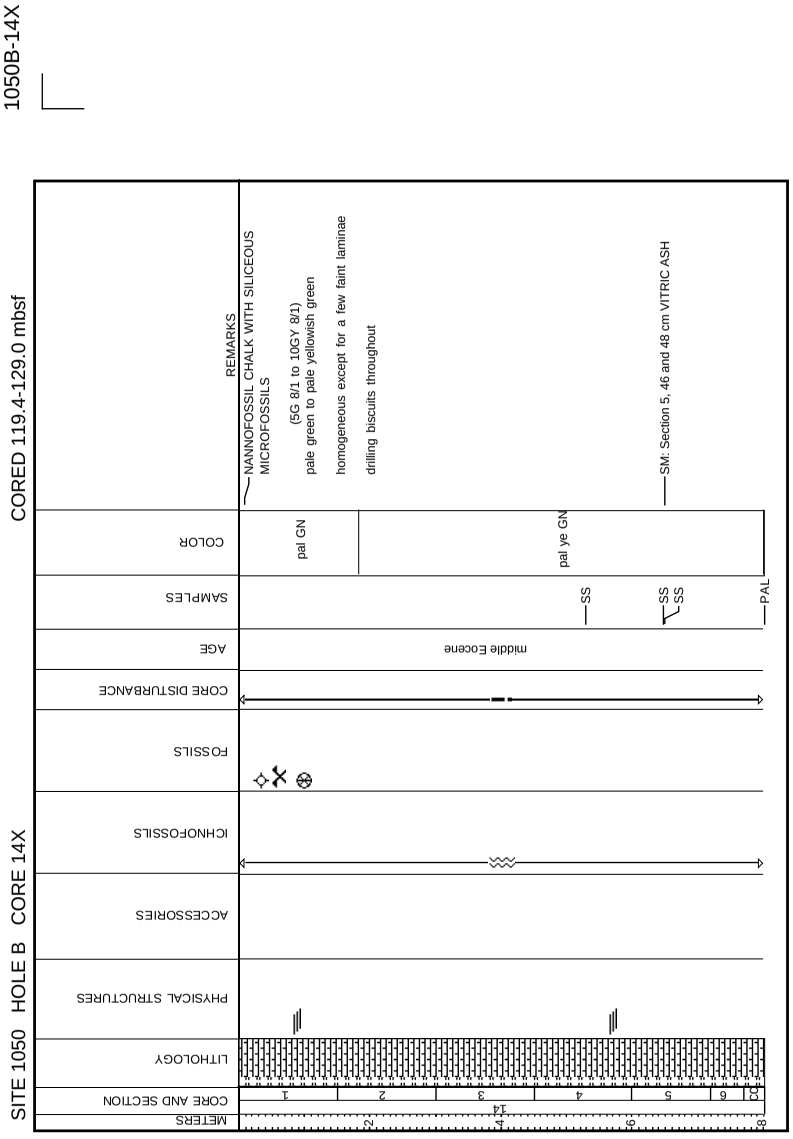

SITE 1050 HOLE B CORE 10X
CORED 83-90.6 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
1
2
3
4
5
6
CC
10
2
4
6
8
middle Eocene
SS
SS
PAL
lt GN
NANNOFOSSIL CHALK WITH SILICEOUS MICROFOSSILS
(9GY 7/1) light green
drilling biscuits throughout
slightly-moderately bioturbated some burrows lined with pyrite


1050B-11X
SITE 1050 HOLE B CORE 11X
CORED 90.6-100.2 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
middle Eocene
SS
SS
PAL
lt GN
NANNOFOSSIL CHALK WITH SILICEOUS MICROFOSSILS
(9GY 7/1) light green
Section 1, 0-18 cm: downhole caving of Mn nodules
Drilling disturbance moderate to severe; drilling biscuits are fractuely 2-4 cm thick, between drilling slurry 2-5 cm thick
SM: Section 6, 27 cm gray slurry between biscuits
NANNOFOSSIL OOZE WITH SILICEOUS MICROFOSSILS AND ASH

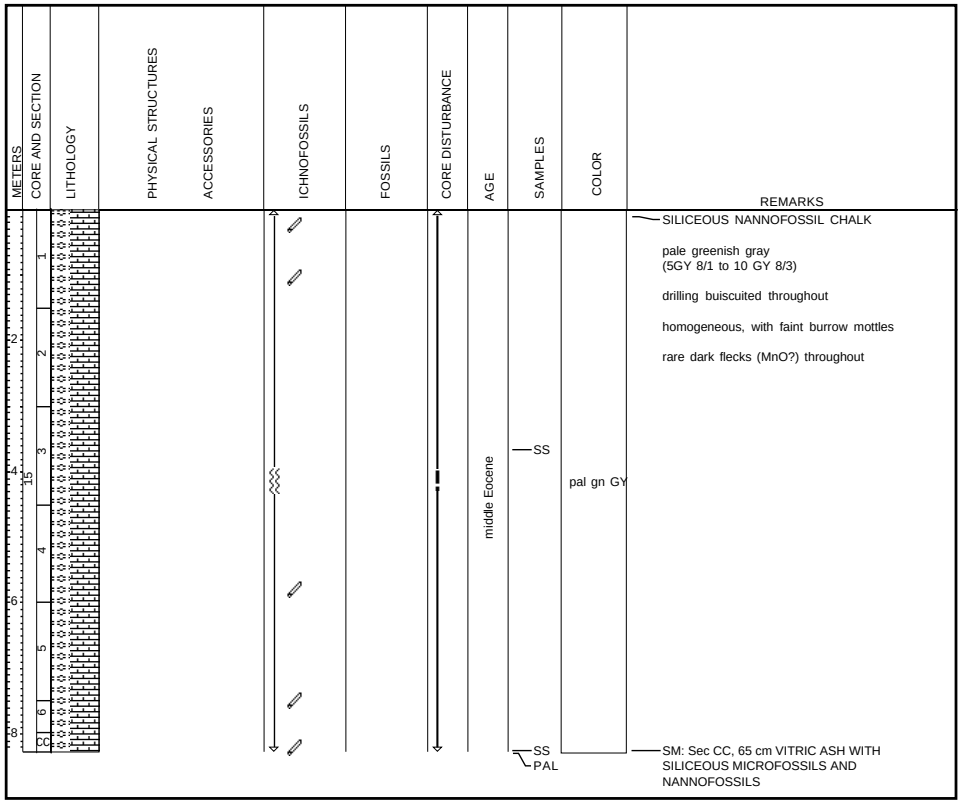
1050B-12X


SITE 1050 HOLE B CORE 12X
CORED 100.2-109.8 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
middle Eocene
lt gn GY
SS
SS
PAL
NANNOFOSSIL CHALK WITH SILICEOUS MICROFOSSILS
light greenish gray (10GY 8/1)
homogeneous, with rare black flecks
biscuited throughout (3-4 cm biscuits, every 6-7 cm.)
SM: Section 6, 147 cm
NANNOFOSSIL VITRIC ASH


1050B-13X
SITE 1050 HOLE B CORE 13X
CORED 109.8-119.4 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
NANNOFOSSIL CHALK WITH SILICEOUS MICROFOSSILS
homogeneous
pale yellow green (10GY 8/1)
drilling biscuited throughout (regular, every 7 cm)
strongly bioturbated, several Zoophycos structures visible.
middle Eocene
SS
PAL
pal ye GN
1
2
3
4
5
6
CC
T3


1050B-14X
SITE 1050 HOLE B CORE 14X
CORED 119.4-129.0 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
middle Eocene
SS
SS
SS
PAL
pal GN
pal ye GN
NANNOFOSSIL CHALK WITH SILICEOUS MICROFOSSILS
(5G 8/1 to 10GY 8/1)
pale green to pale yellowish green
homogeneous except for a few faint laminae
drilling biscuits throughout
SM: Section 5, 46 and 48 cm VITRIC ASH

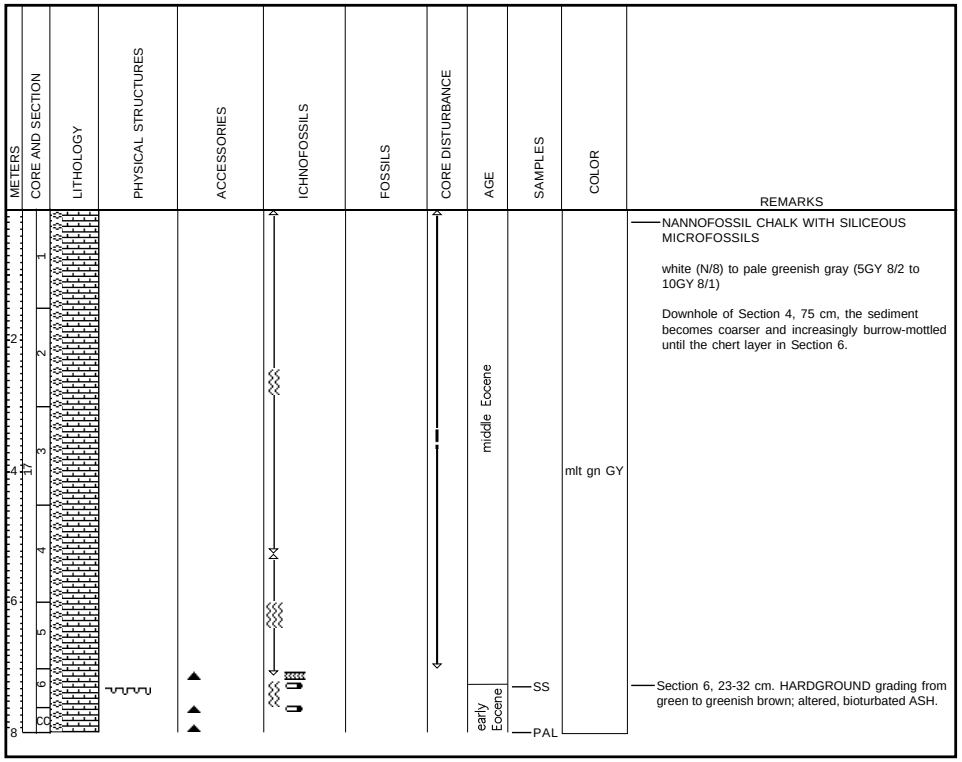
SITE 1050 HOLE B CORE 15X CORED 129.0-138.6 mbsf



SITE 1050 HOLE B CORE 16X CORED 138.6-148.2 mbsf

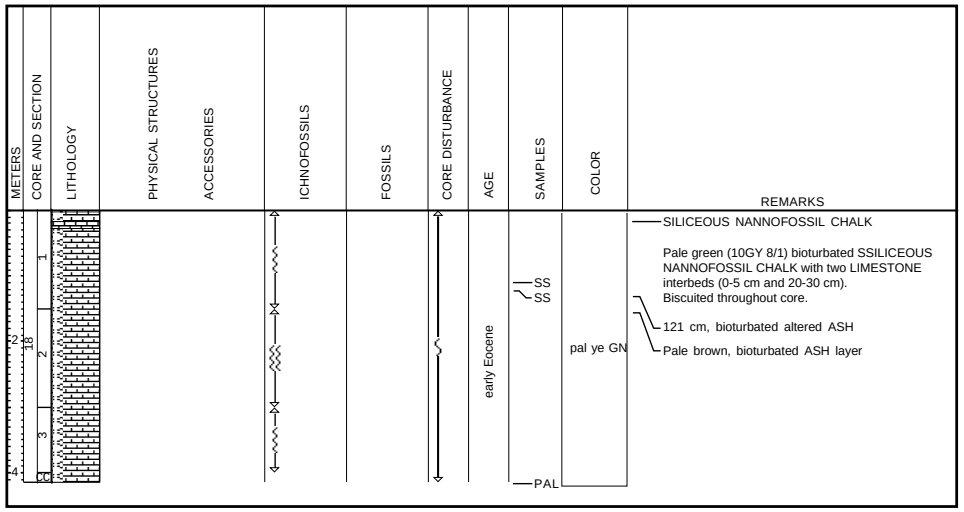
1050B-16X

SITE 1050 HOLE B CORE 17X CORED 148.2-154.7 mbsf



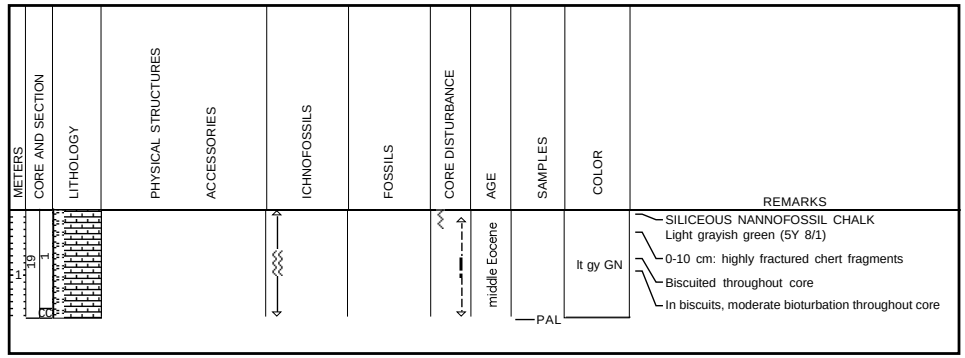
SITE 1050 HOLE B CORE 18X CORED 154.7-157.8 mbsf

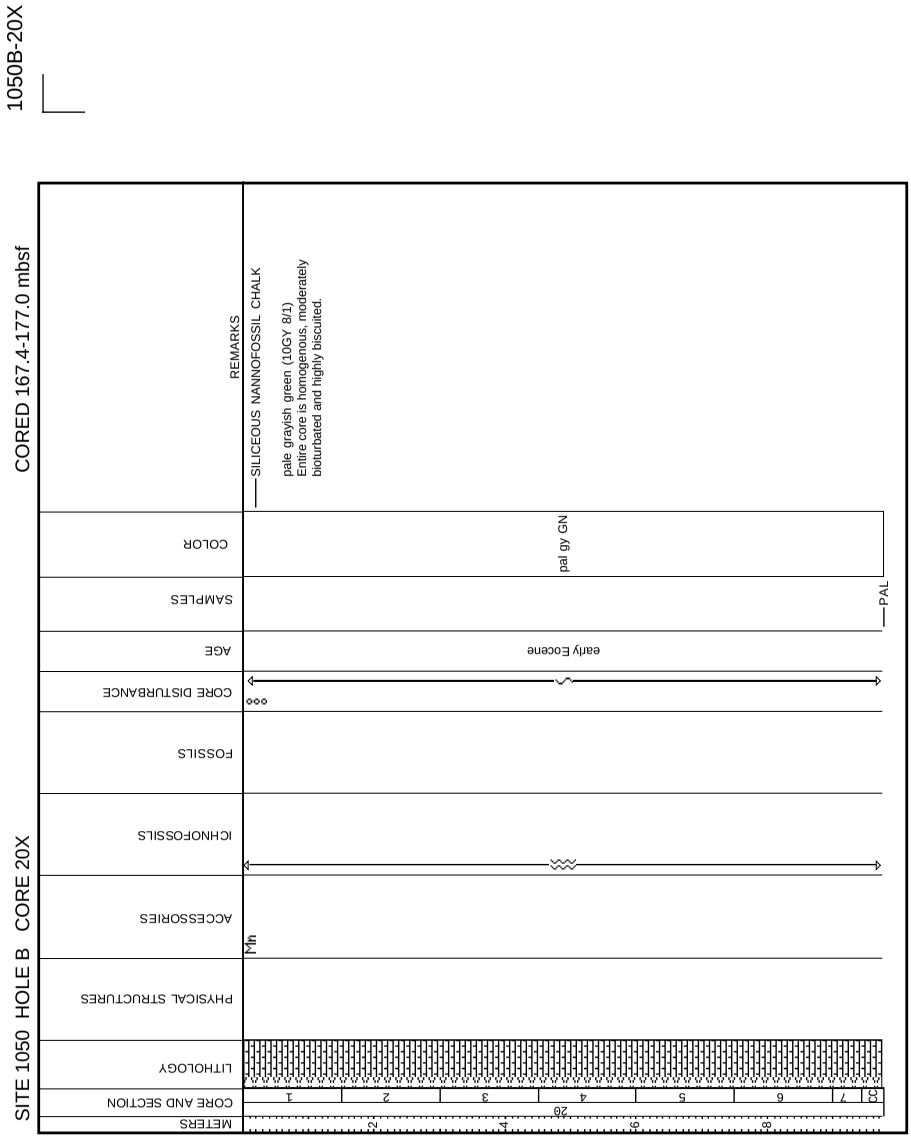
1050B-18X



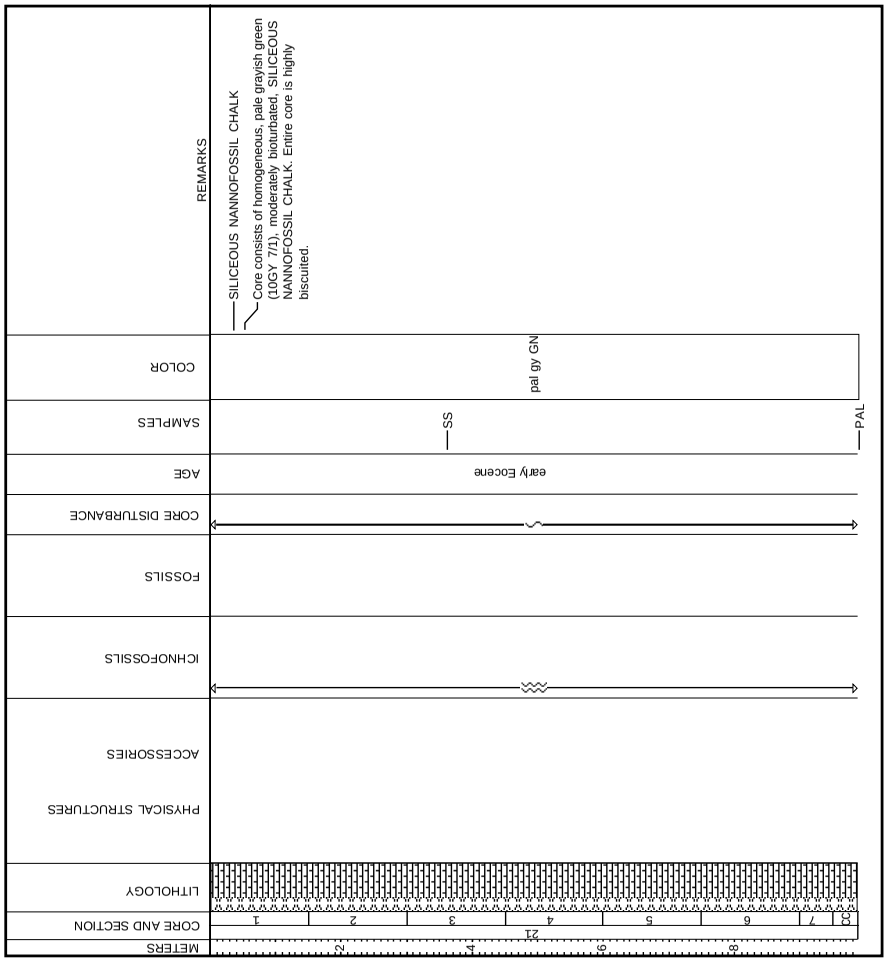
SITE 1050 HOLE B CORE 19X CORED 157.8-167.4 mbsf

1050B-19X



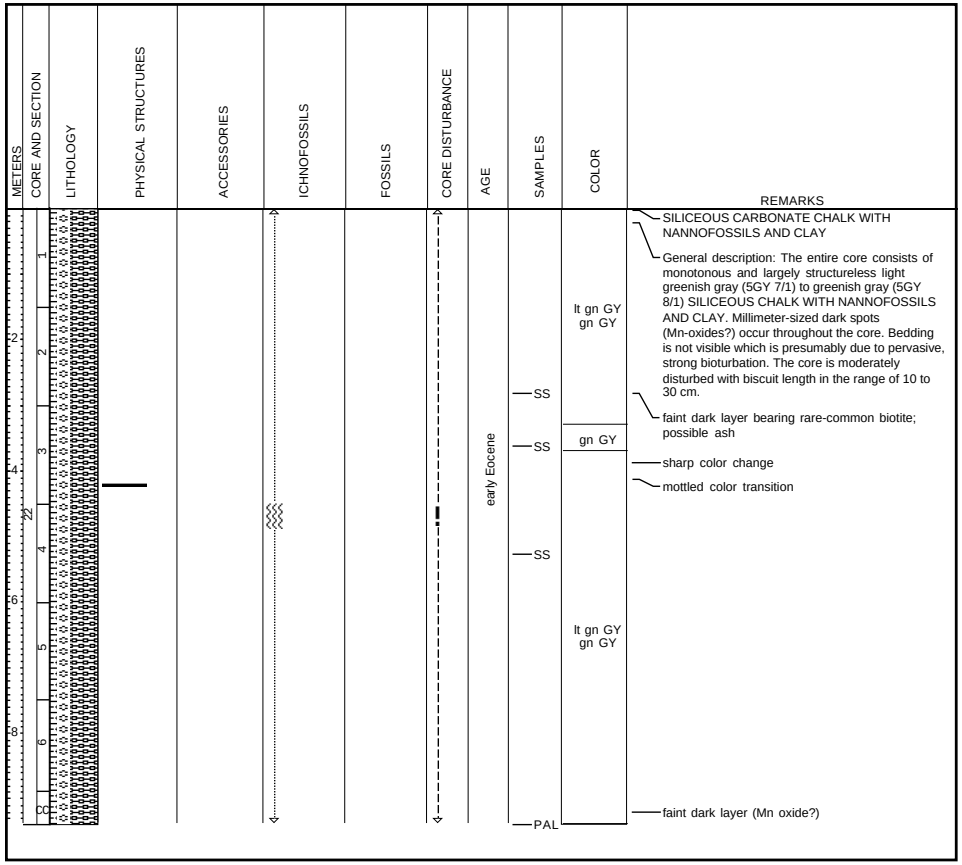

1050B-20X
SITE 1050 HOLE B CORE 20X
CORED 167.4-177.0 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
SILICEOUS NANNOFOSSIL CHALK
pale grayish green (10GY 8/1)
Entire core is homogenous, moderately bioturbated and highly biscuited.
pal gy GN
early Eocene
PAL
Mn
1
2
3
4
5
6
7
CC
20

1050B-21X


SITE 1050 HOLE B CORE 21X
CORED 177.0-186.6 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
SILICEOUS NANNOFOSSIL CHALK
Core consists of homogeneous, pale grayish green (10GY 7/1), moderately bioturbated. SILICEOUS NANNOFOSSIL CHALK. Entire core is highly biscuited.
pal gy GN
SS
PAL
early Eocene
1
2
3
4
21
5
6
7
CC

SITE 1050 HOLE B CORE 22X CORED 186.6-196.2 mbsf

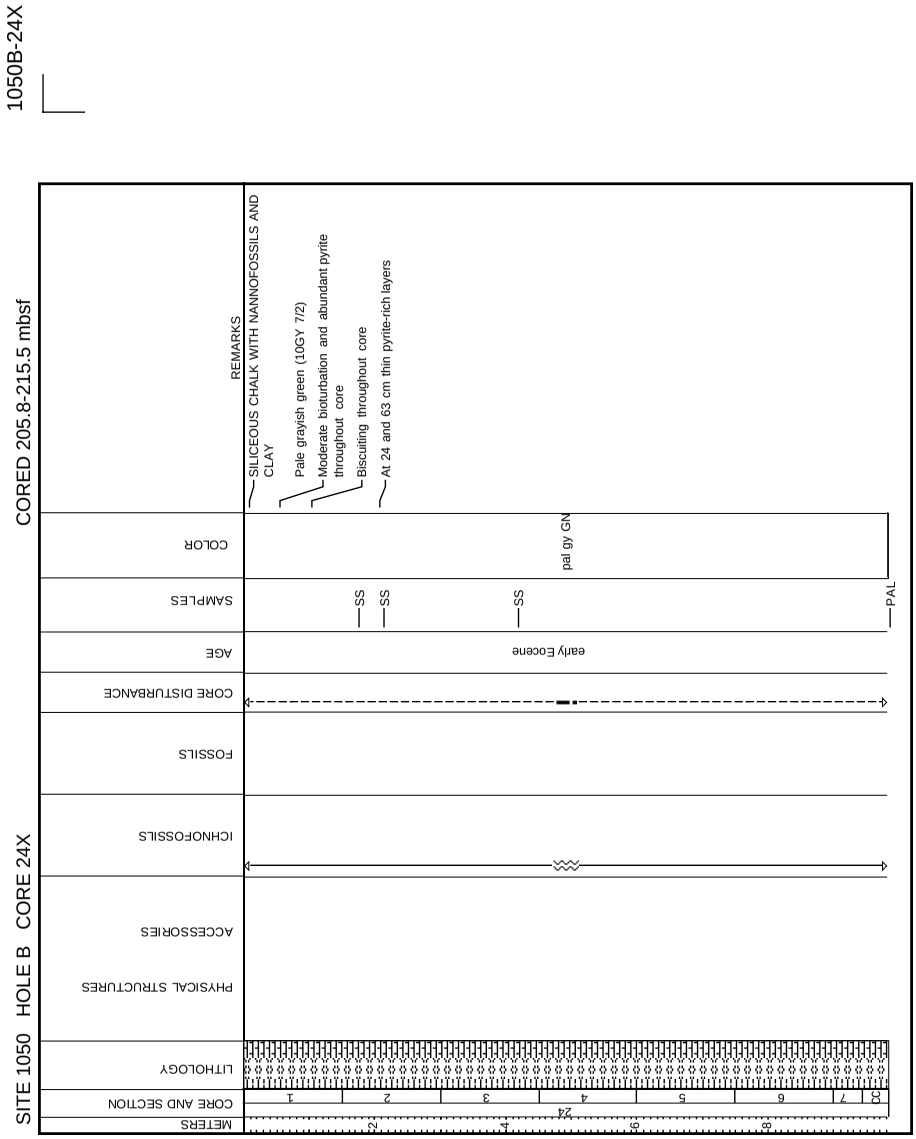
1050B-22X

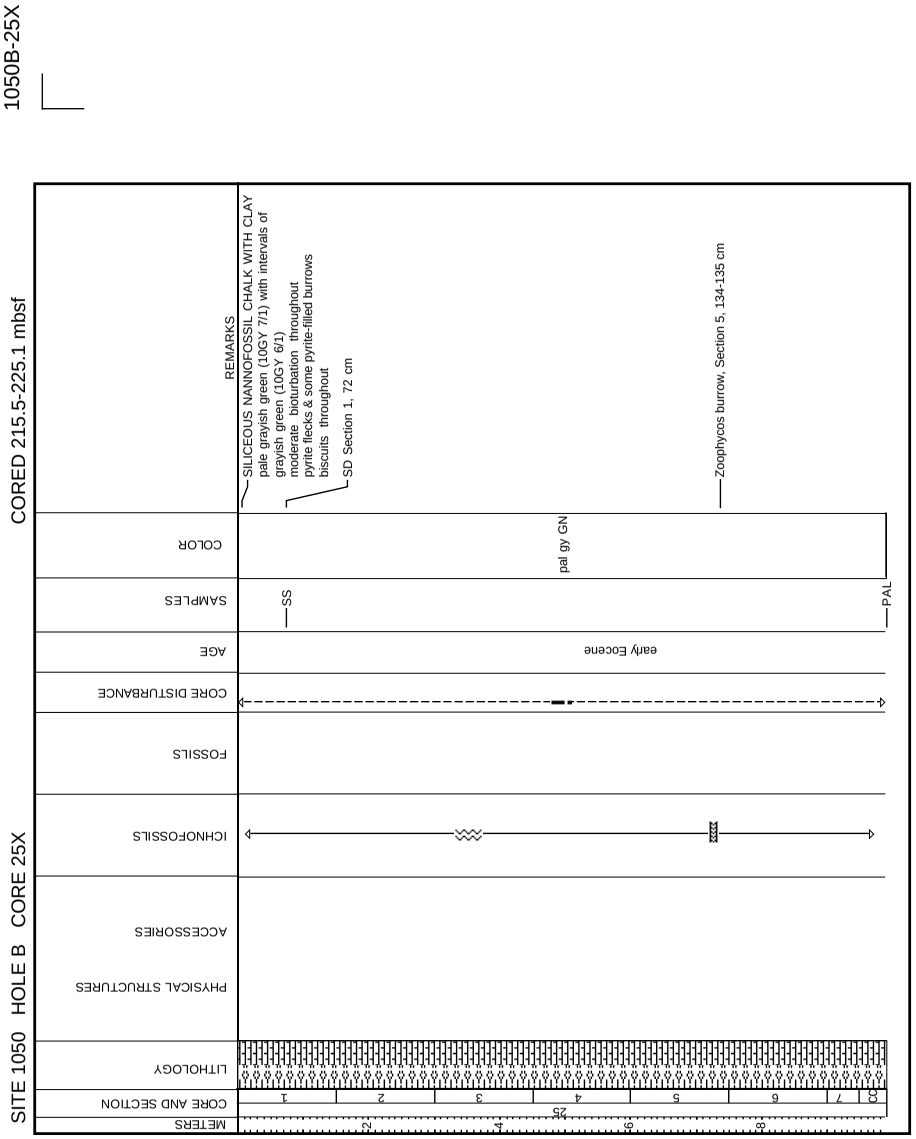


SITE 1050 HOLE B CORE 23X

CORED 196.2-205.8 mbsf

1050B-23X

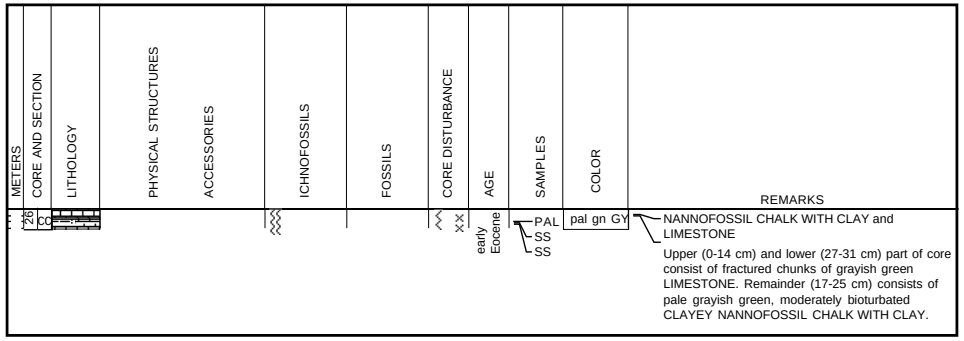

1050B-24X
SITE 1050 HOLE B CORE 24X
CORED 205.8-215.5 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
SILICEOUS CHALK WITH NANNOFOSSILS AND CLAY
Pale grayish green (10GY 7/2)
Moderate bioturbation and abundant pyrite throughout core
Biscuiting throughout core
At 24 and 63 cm thin pyrite-rich layers
pal gy GN
early Eocene
SS
SS
SS
PAL


1050B-25X
SITE 1050 HOLE B CORE 25X
CORED 215.5-225.1 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
SILICEOUS NANNOFOSSIL CHALK WITH CLAY
pale grayish green (10GY 7/1) with intervals of
grayish green (10GY 6/1)
moderate bioturbation throughout
pyrite flecks & some pyrite-filled burrows
biscuits throughout
SD Section 1, 72 cm
Zoophycos burrow, Section 5, 134-135 cm
SS
PAL
pal gy GN
early Eocene
1
2
3
4
5
6
7
CC
25

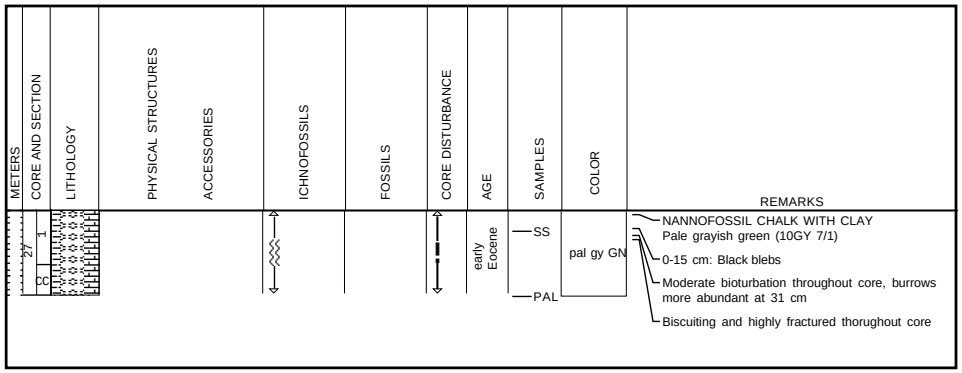
1050B-26X

1050B-27X

SITE 1050 HOLE B CORE 26X CORED 225.1-230.4 mbsf



SITE 1050 HOLE B CORE 27X CORED 230.4-240.0 mbsf

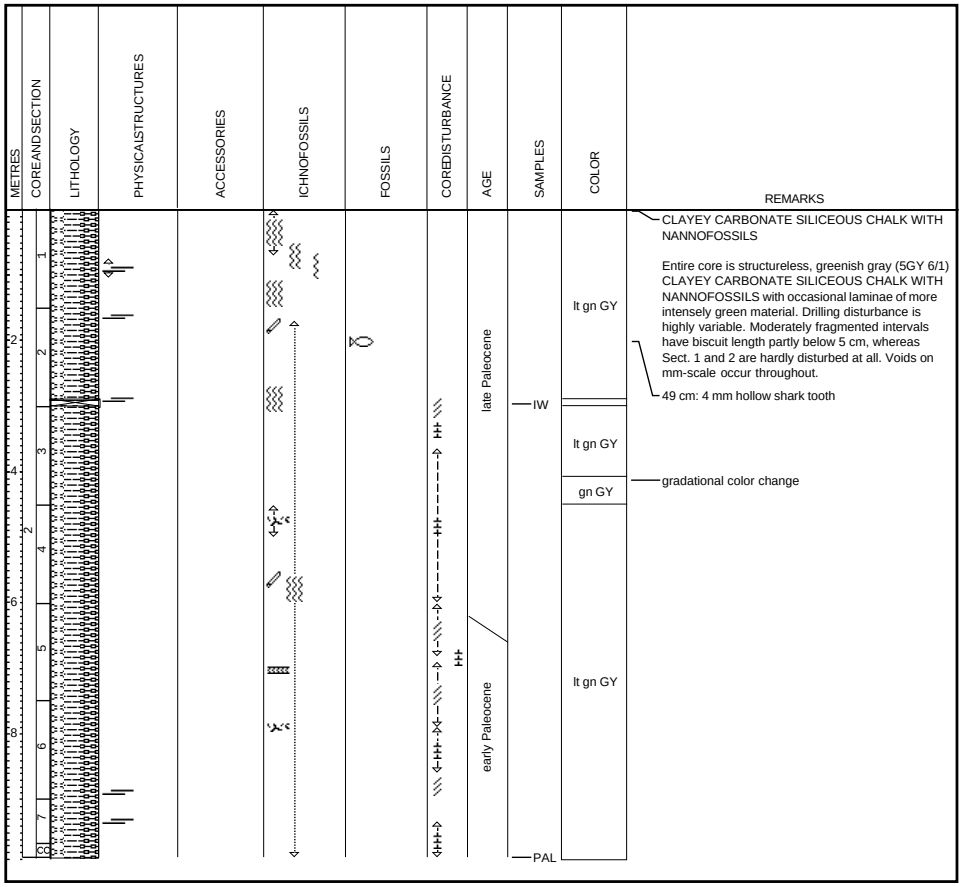


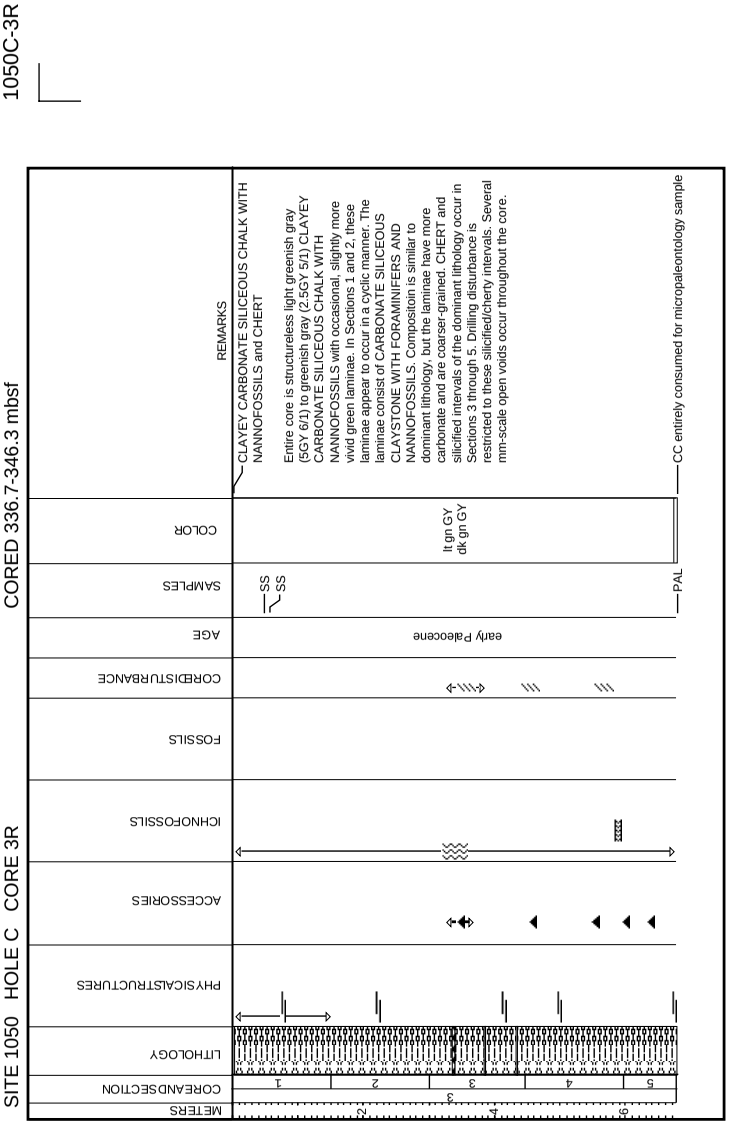
1050C-1R NO RECOVERY

1050C-2R

SITE 1050 HOLE C CORE 2R

CORED 327.1-336.7 mbsf

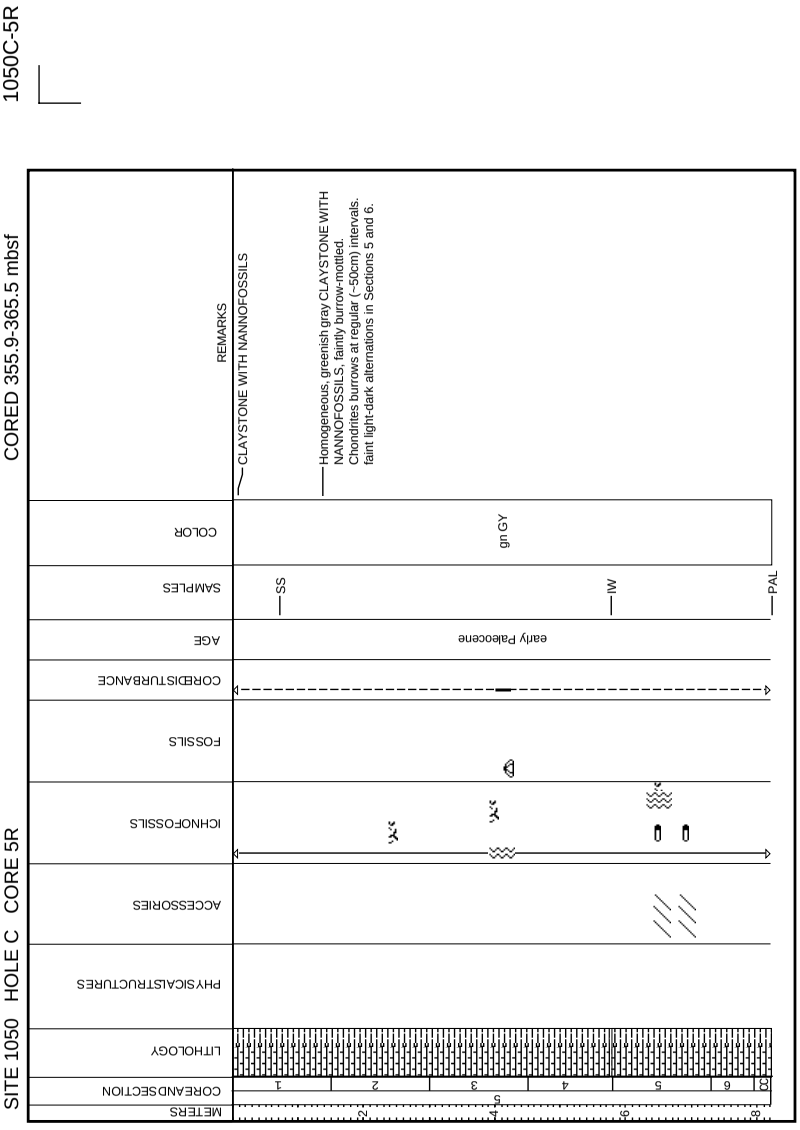



SITE 1050 HOLE C CORE 3R
CORED 336.7-346.3 mbsf
1050C-3R
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
CLAYEY CARBONATE SILICEOUS CHALK WITH NANNOFOSSILS and CHERT
Entire core is structureless light greenish gray (5GY 6/1) to greenish gray (2.5GY 5/1) CLAYEY CARBONATE SILICEOUS CHALK WITH NANNOFOSSILS with occasional, slighty more vivid green laminae. In Sections 1 and 2, these laminae appear to occur in a cyclic manner. The laminae consist of CARBONATE SILICEOUS CLAYSTONE WITH FORAMINIFERS AND NANNOFOSSILS. Compositoin is similar to dominant lithology, but the laminae have more carbonate and are coarser-grained. CHERT and silicified intervals of the dominant lithology occur in Sections 3 through 5. Drilling disturbance is restricted to these silicified/cherty intervals. Several mm-scale open voids occur throughout the core.
CC entirely consumed for micropaleontology sample
SS
SS
PAL
lt gn GY
dk gn GY
early Paleocene
1
2
3
4
5
CC

SITE 1050 HOLE C CORE 4R

CORED 346.3-355.9 mbsf

1050C-4R

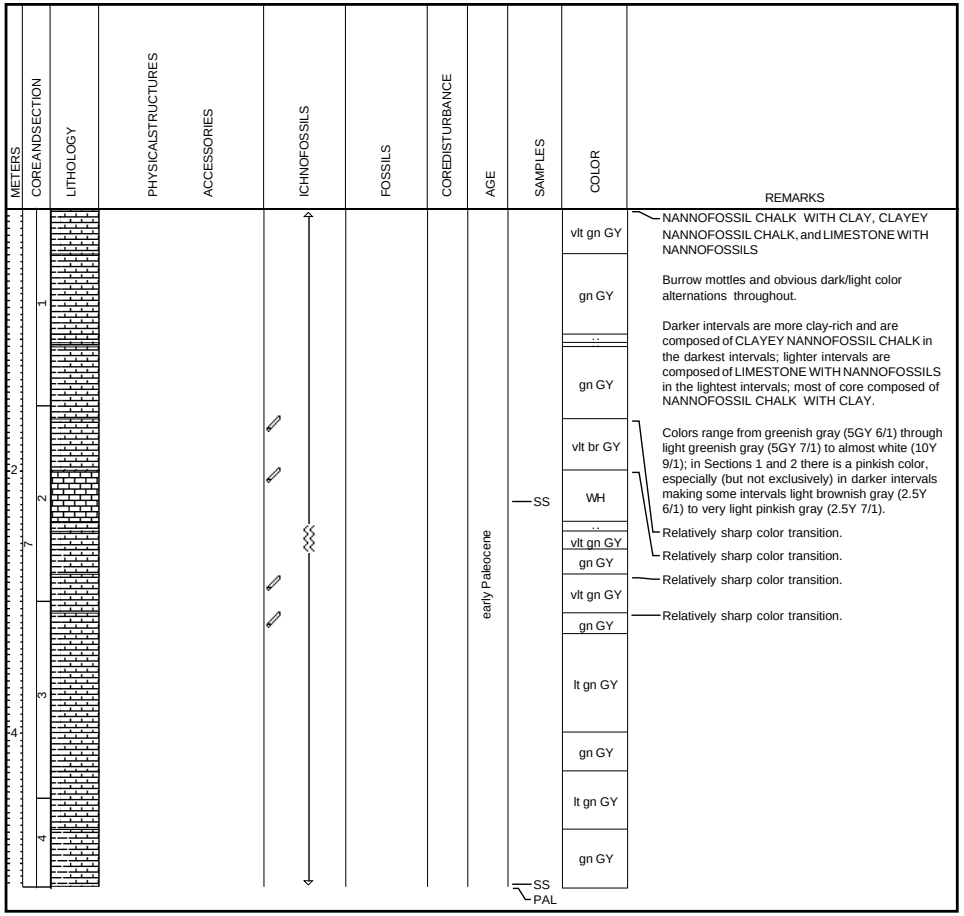

1050C-5R
SITE 1050 HOLE C CORE 5R
CORED 355.9-365.5 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
CLAYSTONE WITH NANNOFOSSILS
Homogeneous, greenish gray CLAYSTONE WITH NANNOFOSSILS; faintly burrow-mottled. Chondrites burrows at regular (~50cm) intervals. faint light-dark alternations in Sections 5 and 6.
gn GY
early Paleocene
SS
IW
PAL
1
2
3
4
5
6
CC

SITE 1050 HOLE C CORE 6R

CORED 365.5-375.2 mbsf

1050C-6R

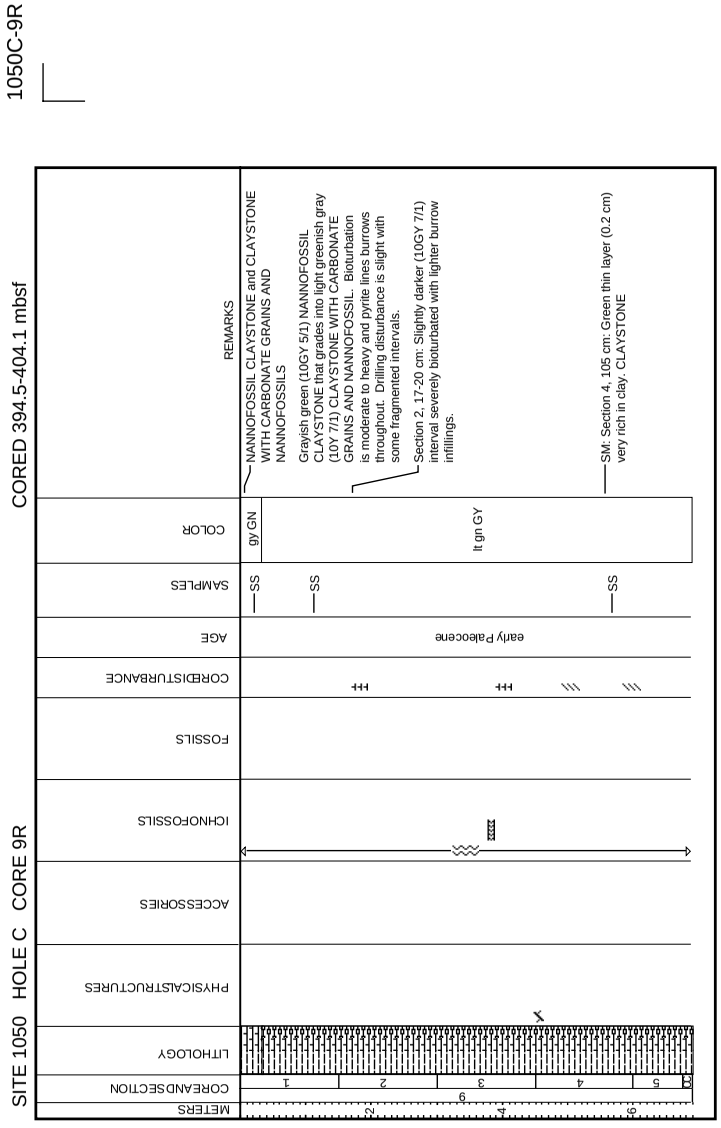
SITE 1050 HOLE C CORE 7R CORED 375.2-384.9 mbsf



SITE 1050 HOLE C CORE 8R

CORED 384.9-394.5 mbsf

1050C-8R


1050C-9R
SITE 1050 HOLE C CORE 9R CORED 394.5-404.1 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
gy GN
lt gn GY
early Paleocene
SS
NANNOFOSSIL CLAYSTONE and CLAYSTONE WITH CARBONATE GRAINS AND NANNOFOSSILS
Grayish green (10GY 5/1) NANNOFOSSIL CLAYSTONE that grades into light greenish gray (10Y 7/1) CLAYSTONE WITH CARBONATE GRAINS AND NANNOFOSSIL. Bioturbation is moderate to heavy and pyrite lines burrows throughout. Drilling disturbance is slight with some fragmented intervals.
Section 2, 17-20 cm: Slightly darker (10GY 7/1) interval severely bioturbated with lighter burrow infillings.
SM: Section 4, 105 cm: Green thin layer (0.2 cm) very rich in clay, CLAYSTONE

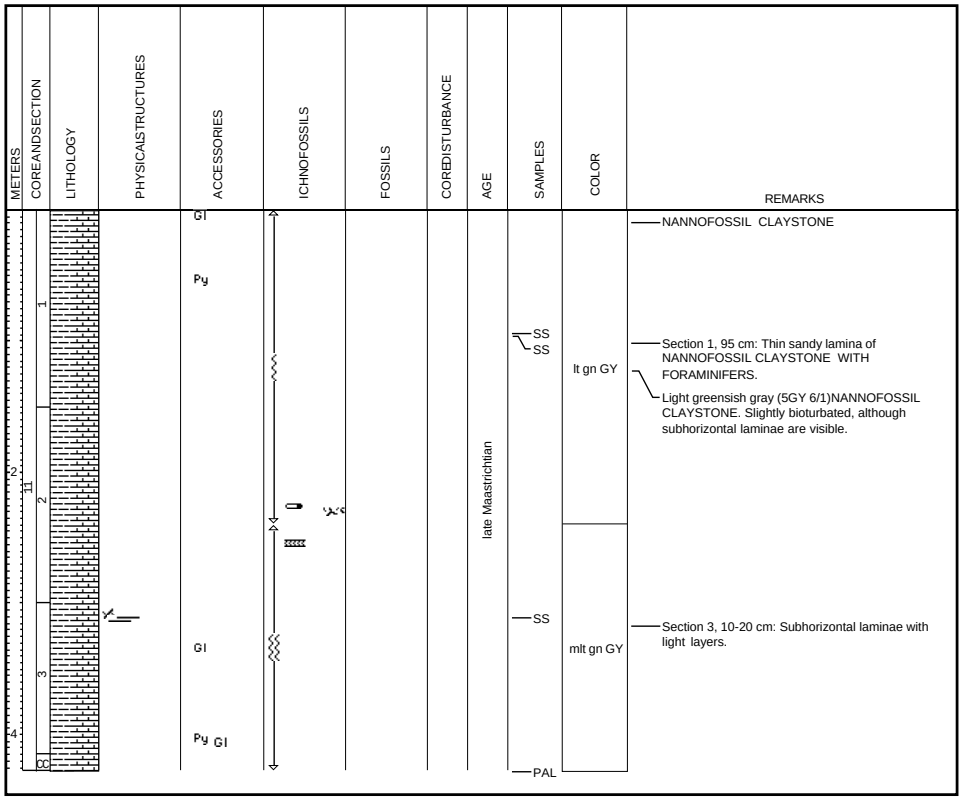
SITE 1050 HOLE C CORE 10R

CORED 404.1-408.7 mbsf

1050C-10R

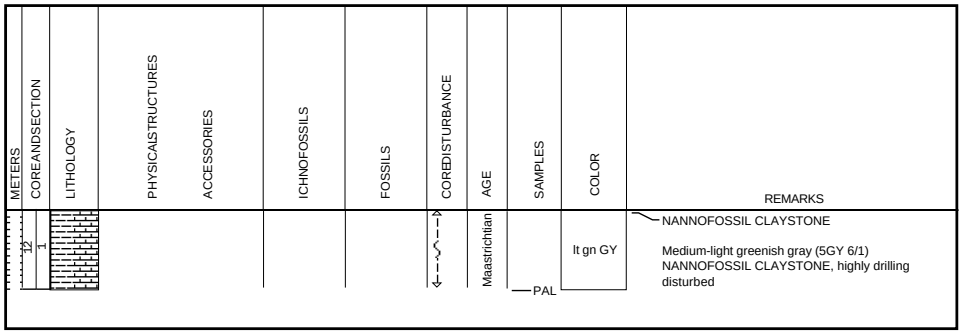
SITE 1050 HOLE C CORE 11R — CORED 408.7-413.7 mbsf

1050C-11R



SITE 1050 HOLE C CORE 12R — CORED 413.7-423.3 mbsf

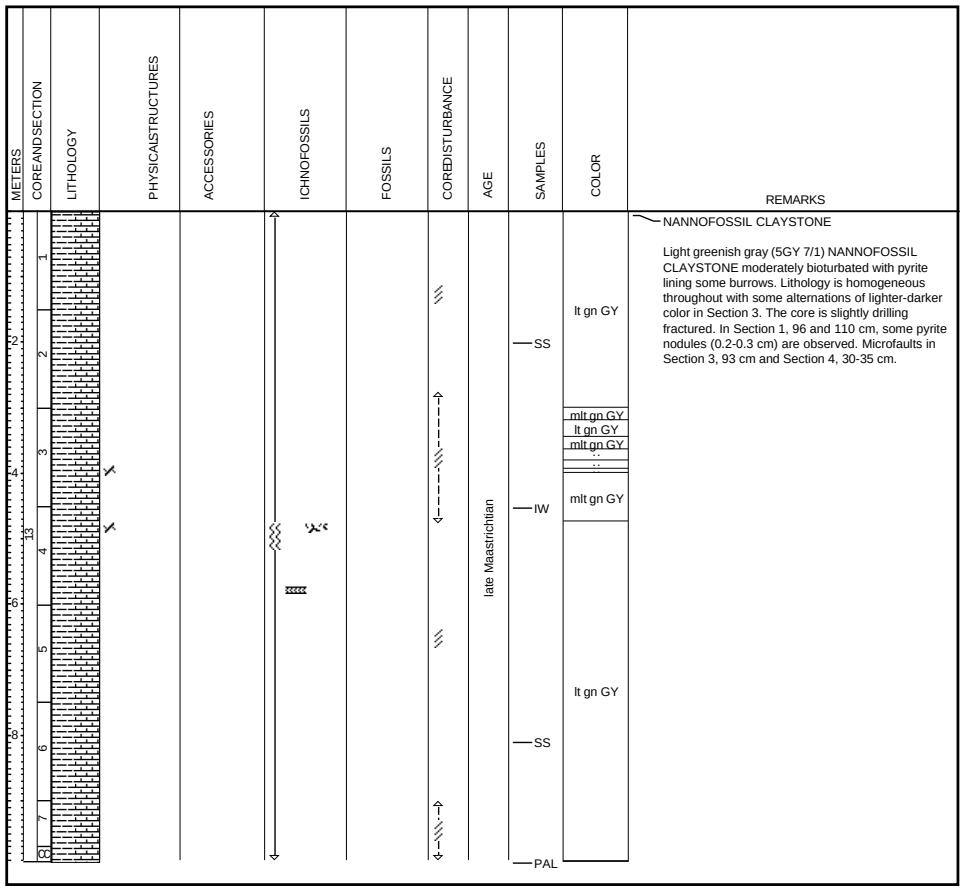
1050C-12R



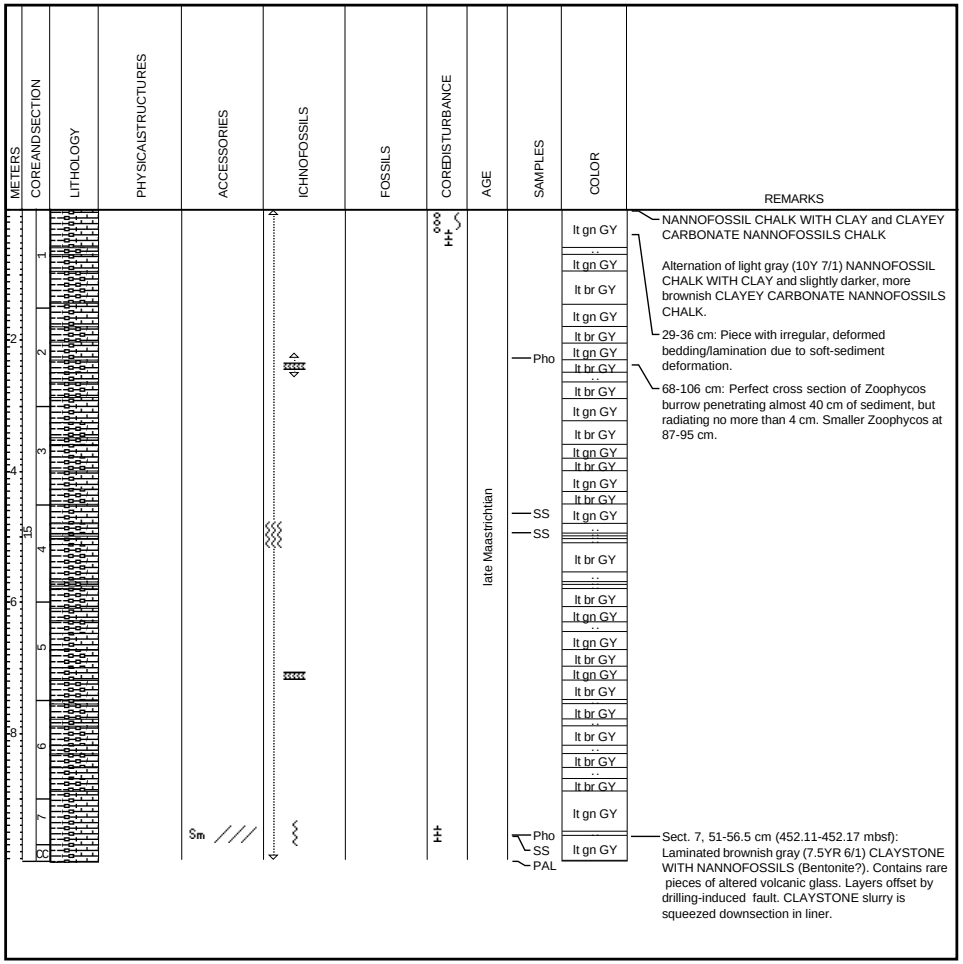
SITE 1050 HOLE C CORE 13R

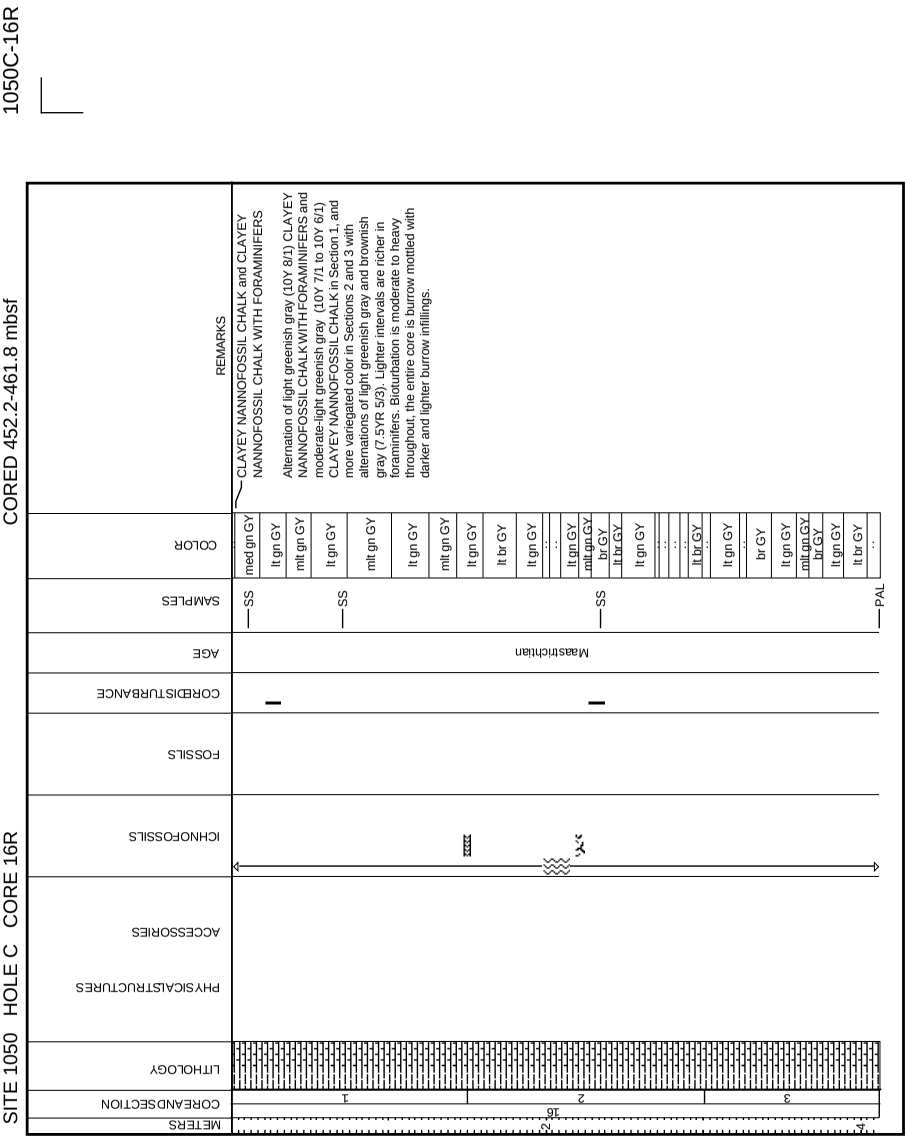
CORED 423.3-433.0 mbsf

1050C-13R



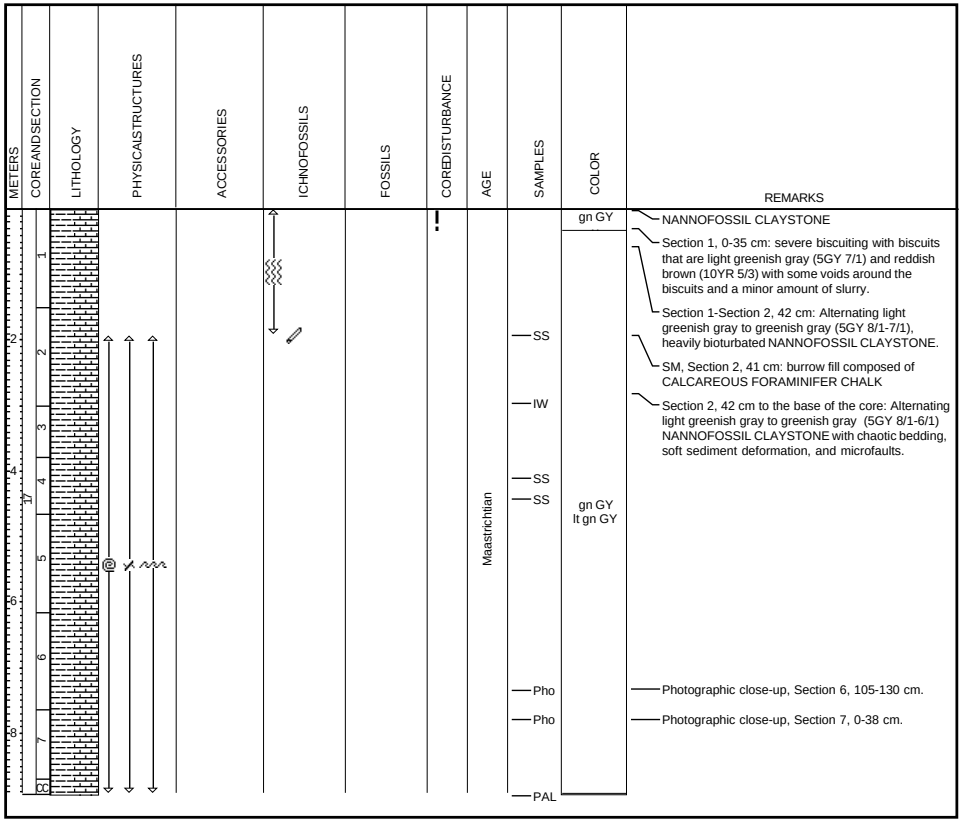
1050C-14R NO RECOVERY


METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
late Maastrichtian
Pho
SS
SS
Pho
SS
PAL
lt gn GY
lt br GY
NANNOFOSSIL CHALK WITH CLAY and CLAYEY CARBONATE NANNOFOSSILS CHALK
Alternation of light gray (10Y 7/1) NANNOFOSSIL CHALK WITH CLAY and slightly darker, more brownish CLAYEY CARBONATE NANNOFOSSILS CHALK.
29-36 cm: Piece with irregular, deformed bedding/lamination due to soft-sediment deformation.
68-106 cm: Perfect cross section of Zoophycos burrow penetrating almost 40 cm of sediment, but radiating no more than 4 cm. Smaller Zoophycos at 87-95 cm.
Sect. 7, 51-56.5 cm (452.11-452.17 mbsf): Laminated brownish gray (7.5YR 6/1) CLAYSTONE WITH NANNOFOSSILS (Bentonite?). Contains rare pieces of altered volcanic glass. Layers offset by drilling-induced fault. CLAYSTONE slurry is squeezed downsection in liner.


SITE 1050 HOLE C CORE 16R
CORED 452.2-461.8 mbsf
1050C-16R
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
Maastrichtian
SS
PAL
med gn GY
lt gn GY
mlt gn GY
lt br GY
br GY
mlt gn GY
CLAYEY NANNOFOSSIL CHALK and CLAYEY NANNOFOSSIL CHALK WITH FORAMINIFERS
Alternation of light greenish gray (10Y 8/1) CLAYEY NANNOFOSSIL CHALK WITH FORAMINIFERS and moderate-light greenish gray (10Y 7/1 to 10Y 6/1) CLAYEY NANNOFOSSIL CHALK in Section 1, and more variegated color in Sections 2 and 3 with alternations of light greenish gray and brownish gray (7.5YR 5/3). Lighter intervals are richer in foraminifers. Bioturbation is moderate to heavy throughout, the entire core is burrow mottled with darker and lighter burrow infillings.

SITE 1050 HOLE C CORE 17R CORED 461.8-471.4 mbsf

1050C-17R



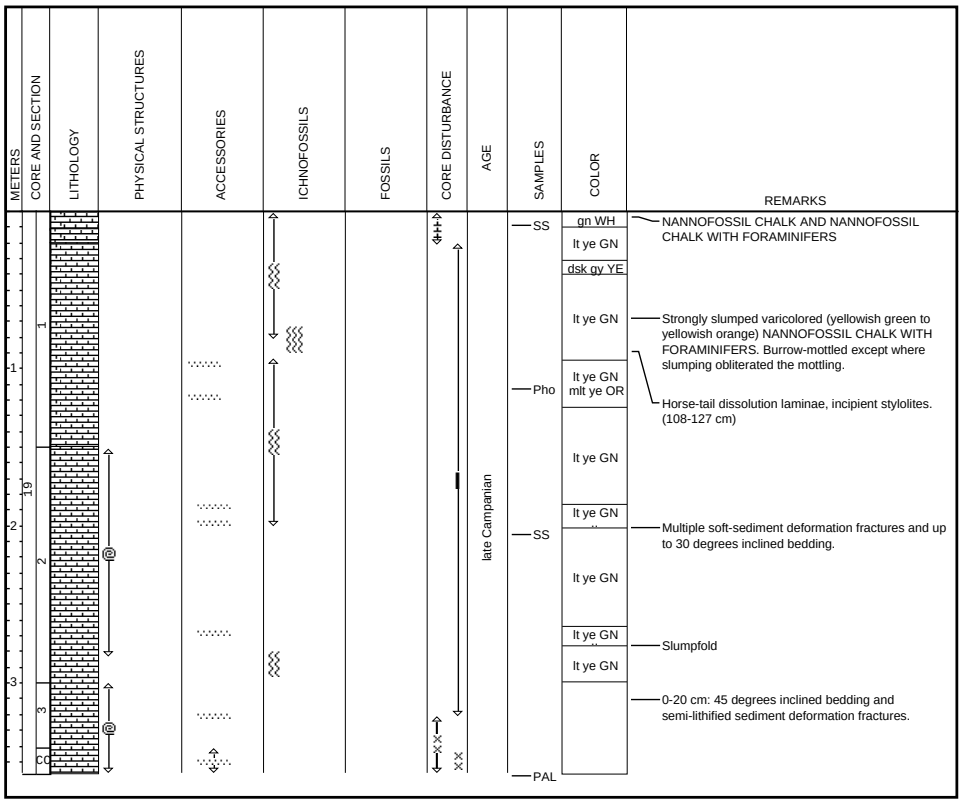
SITE 1050 HOLE C CORE 18R CORED 471.4-481.0 mbsf

1050C-18R

SITE 1050 HOLE C CORE 19R

CORED 481.0-490.6 mbsf

1050C-19R



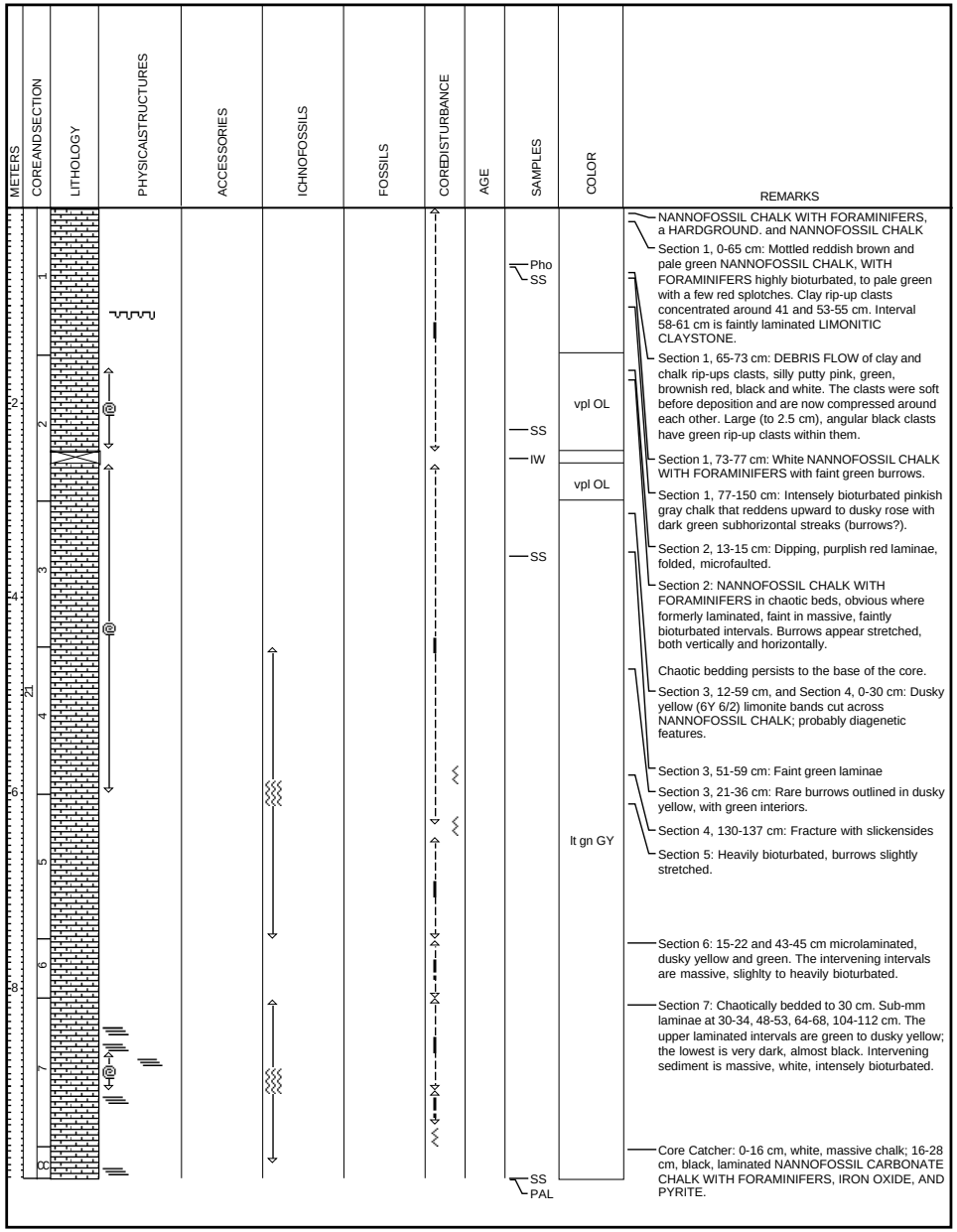
SITE1050 HOLE C CORE 20R

CORED 490.6-500.2 mbsf

1050C-20R

SITE 1050 HOLE C CORE 21R CORED 500.2-509.8 mbsf

1050C-21R

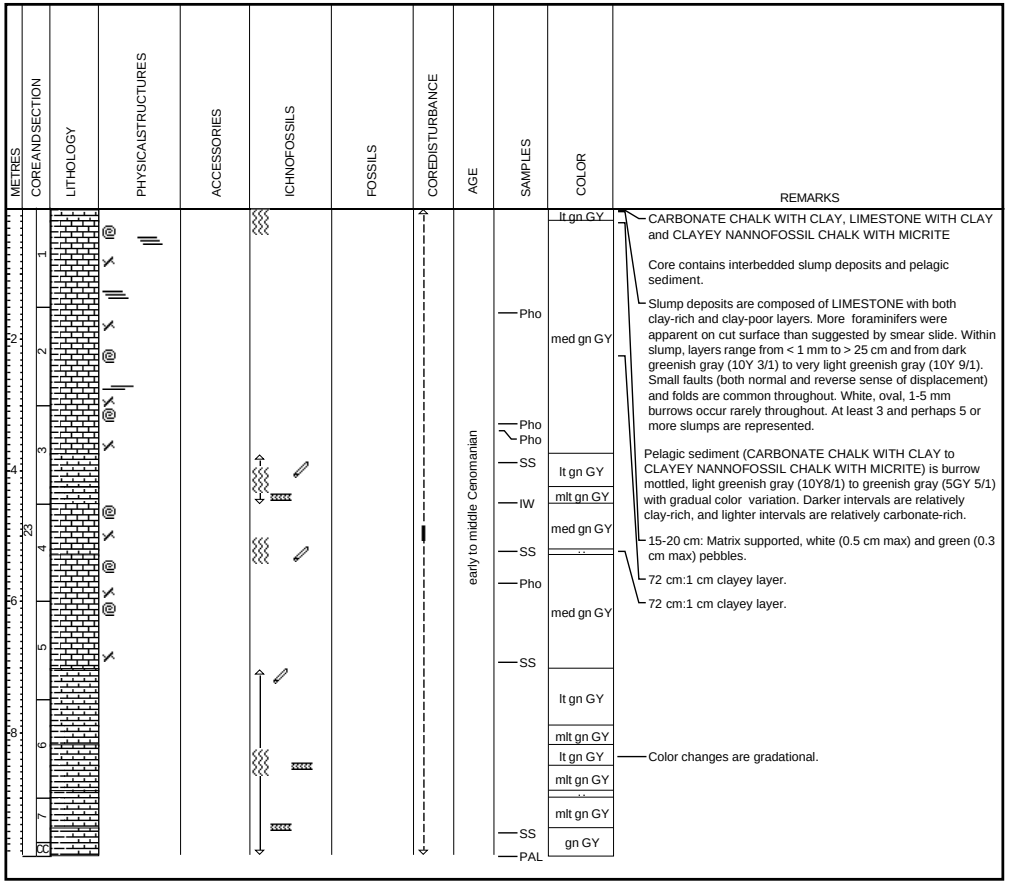


SITE 1050 HOLE C CORE 22R

CORED 509.8-519.4 mbsf

1050C-22R

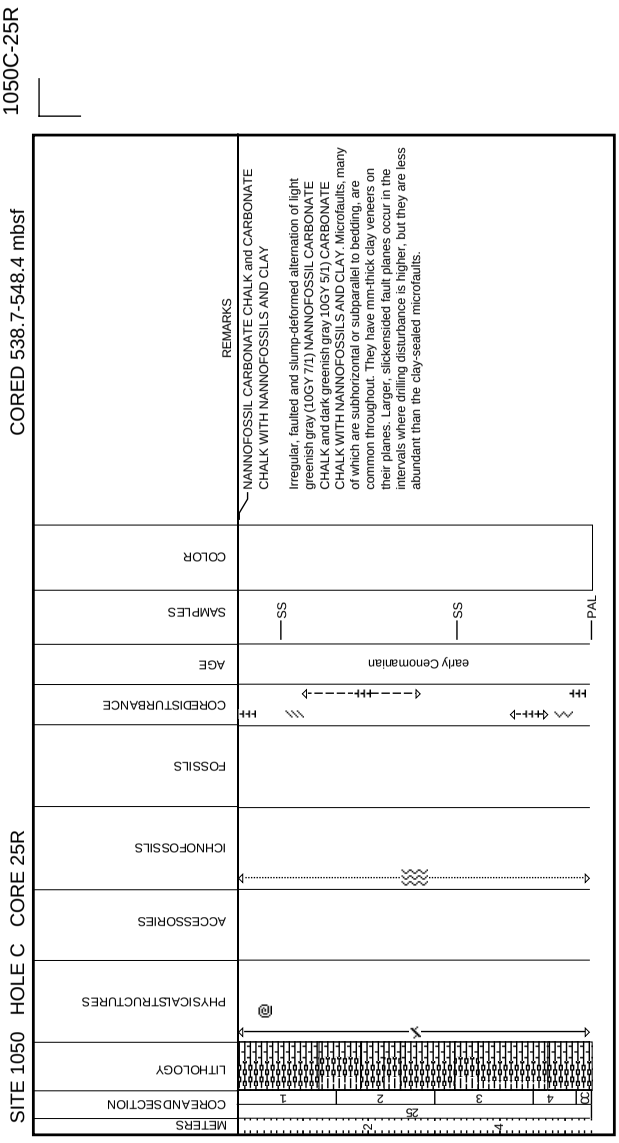
SITE 1050 HOLE C CORE 23R — CORED 519.4-529.1 mbsf



SITE 1050 HOLE C CORE 24R

CORED 529.1-538.7 mbsf

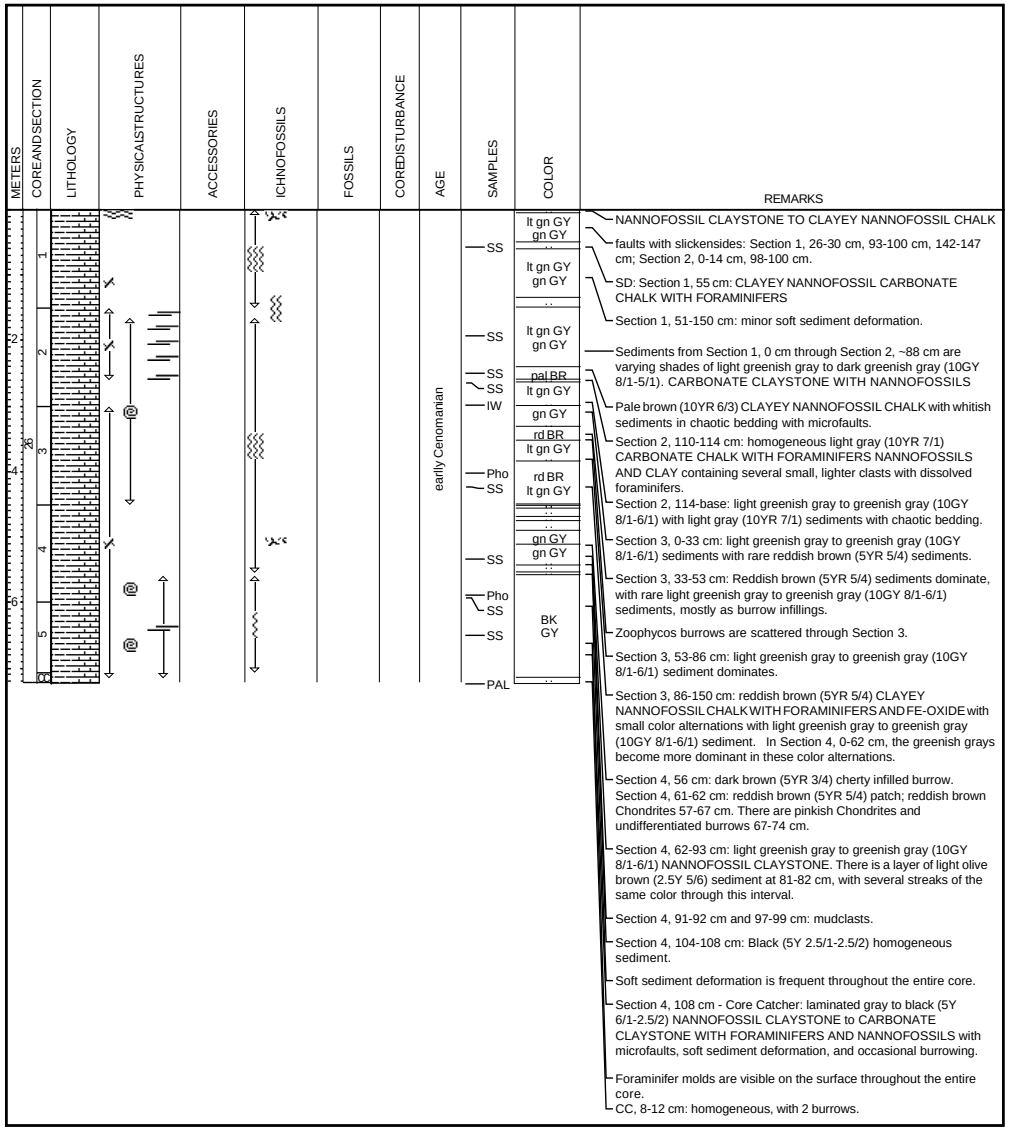
1050C-24R


SITE 1050 HOLE C CORE 25R CORED 538.7-548.4 mbsf 1050C-25R
METERS
CORE/SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
NANNOFOSSIL CARBONATE CHALK and CARBONATE CHALK WITH NANNOFOSSILS AND CLAY
Irregular, faulted and slump-deformed alternation of light greenish gray (10GY 7/1) NANNOFOSSIL CARBONATE CHALK and dark greenish gray (10GY 5/1) CARBONATE CHALK WITH NANNOFOSSILS AND CLAY. Microfaults, many of which are subhorizontal or subparallel to bedding, are common throughout. They have mm-thick clay veneers on their planes. Larger, slickensided fault planes occur in the intervals where drilling disturbance is higher, but they are less abundant than the clay-sealed microfaults.
early Cenomanian
SS
SS
PAL
1
2
3
4
CC

SITE 1050 HOLE C CORE 26R

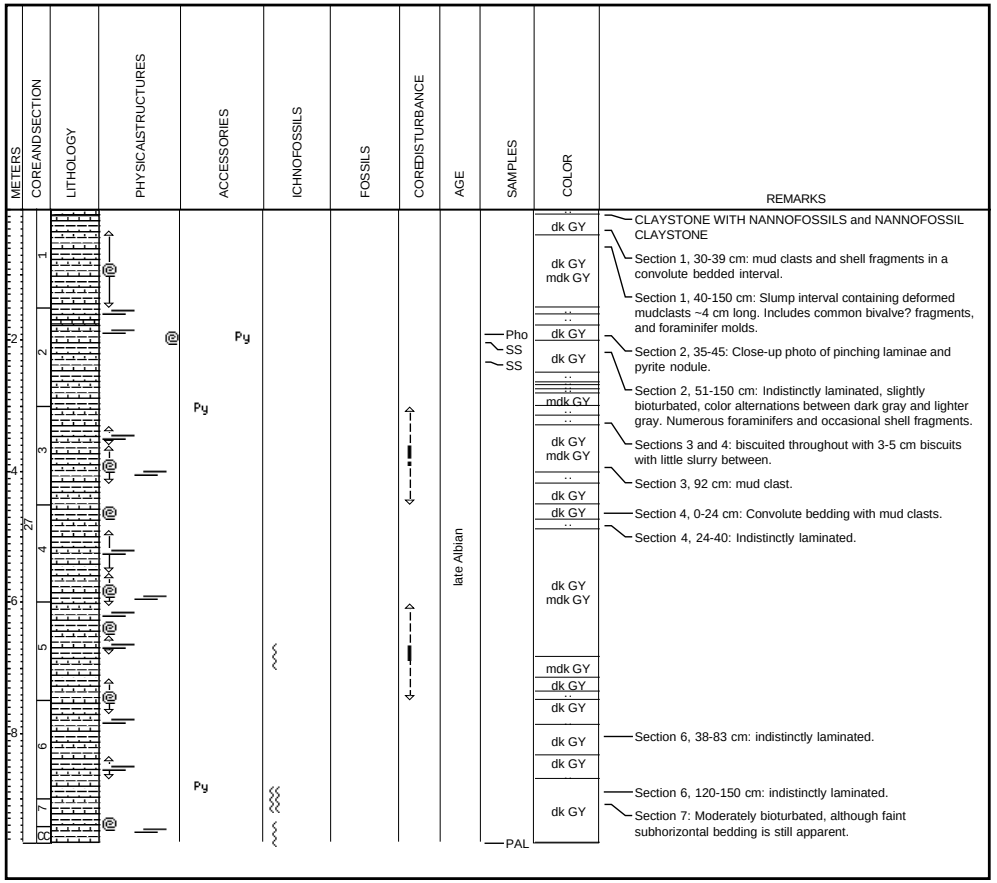
CORED 548.4-558.0 mbsf

1050C-26R



SITE 1050 HOLE C CORE 27R CORED 558.0-567.6 mbsf

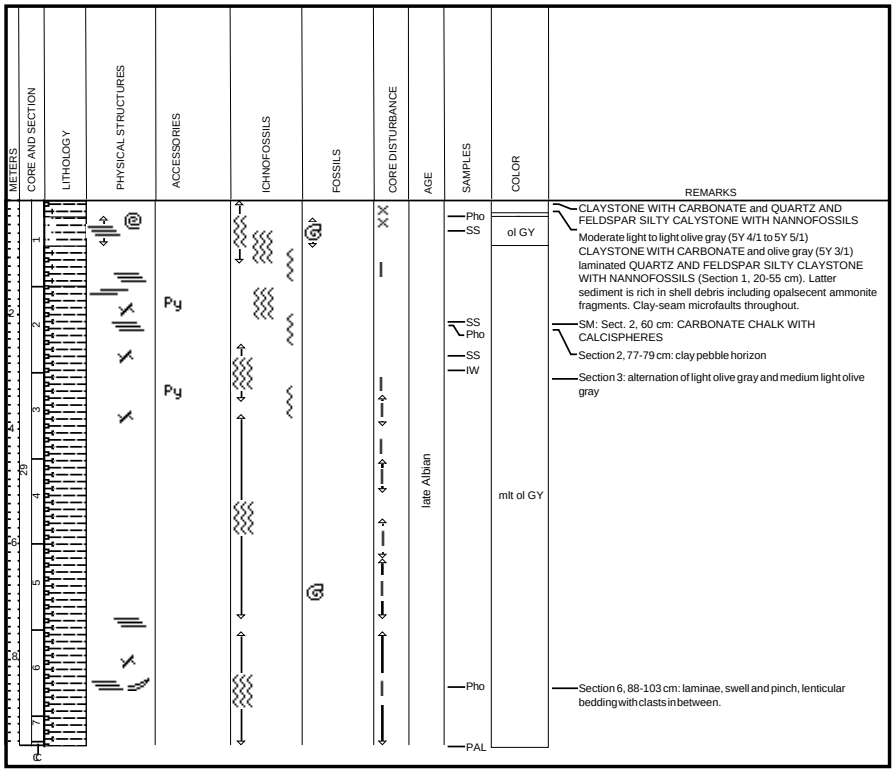
1050C-27R



SITE 1050 HOLE C CORE 28R CORED 567.6-577.2 mbsf

1050C-28R

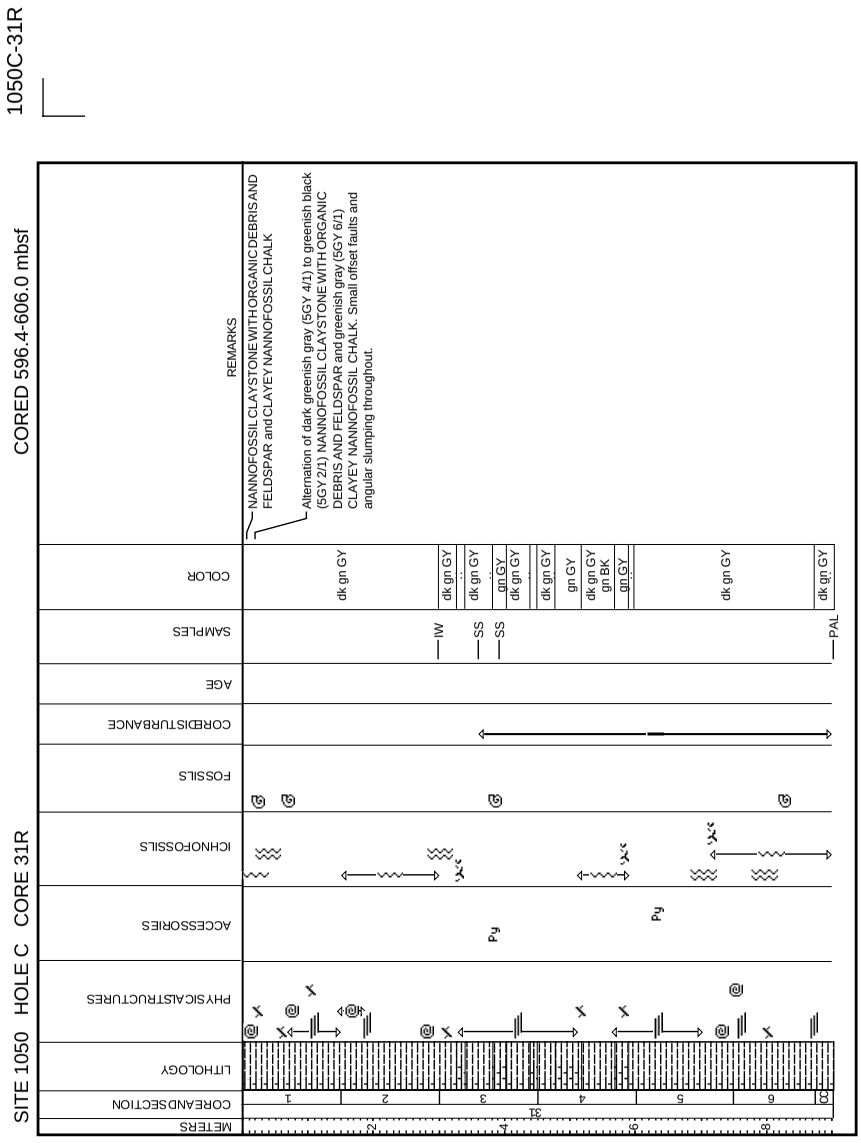
SITE 1050 HOLE C CORE 29R CORED 577.2-586.8 mbsf



SITE 1050 HOLE C CORE 30R

CORED 586.8-596.4 mbsf

1050C-30R


SITE 1050 HOLE C CORE 31R
CORED 596.4-606.0 mbsf
1050C-31R
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
NANNOFOSSIL CLAYSTONE WITH ORGANIC DEBRIS AND FELDSPAR and CLAYEY NANNOFOSSIL CHALK
Alternation of dark greenish gray (5GY 4/1) to greenish black (5GY 2/1) NANNOFOSSIL CLAYSTONE WITH ORGANIC DEBRIS AND FELDSPAR and greenish gray (5GY 6/1) CLAYEY NANNOFOSSIL CHALK. Small offset faults and angular slumping throughout.
dk gn GY
IW
SS
PAL
gn GY
dk gn BK
Py
CC