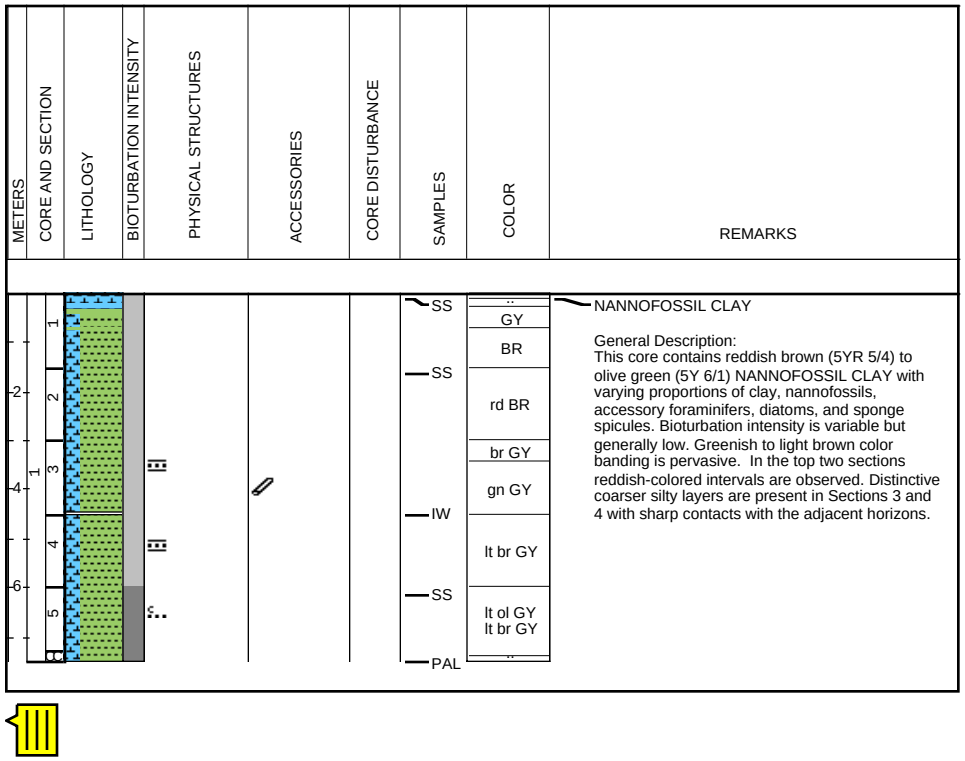
Site 1057 Hole A Core 1H

Cored 0.0-7.5 mbsf

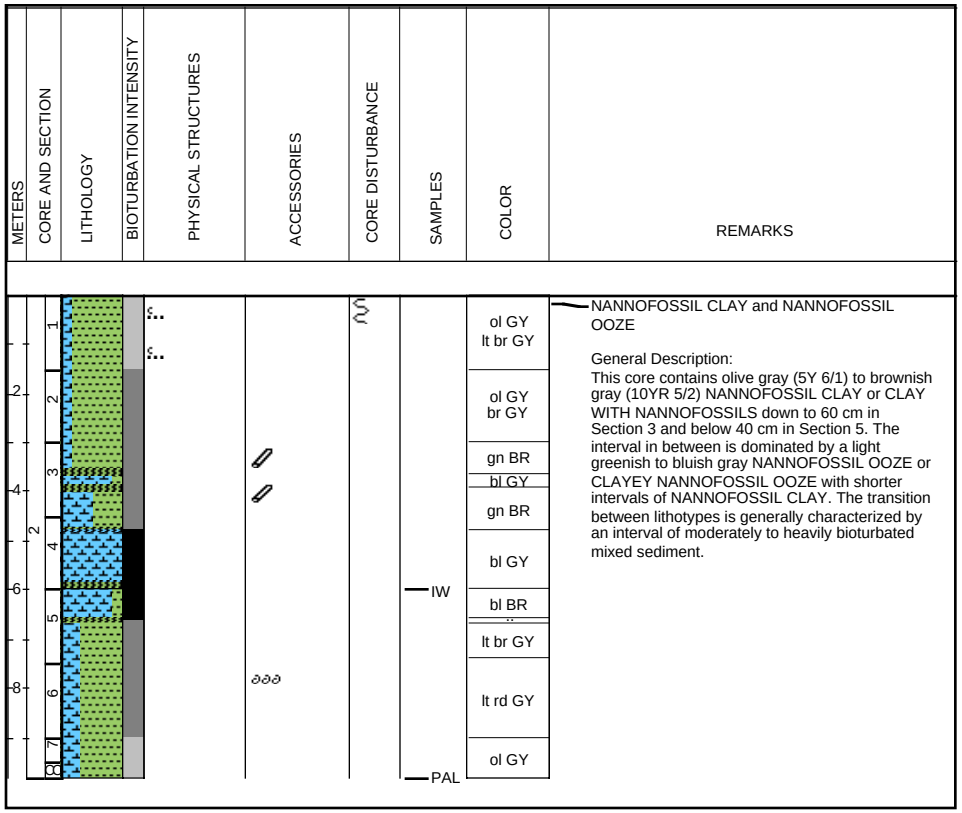


Prior Chapter Contents Next Chapter

Site 1057 Hole A Core 2H

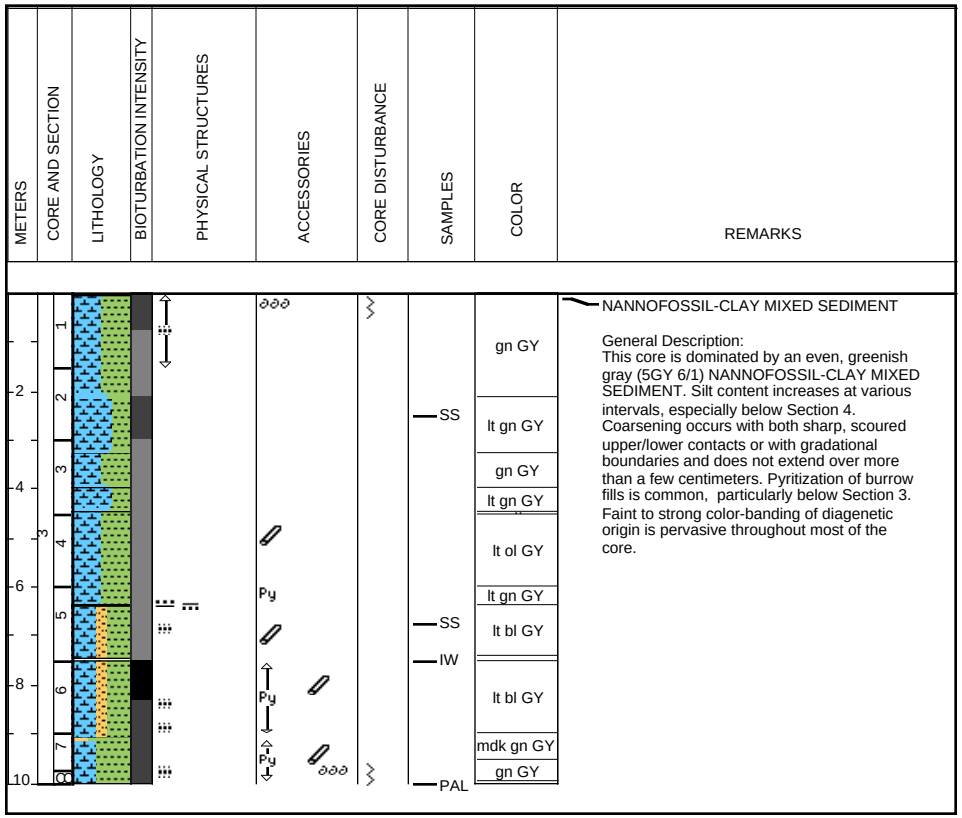
Cored 7.5-17.0 mbsf

1057A-2H



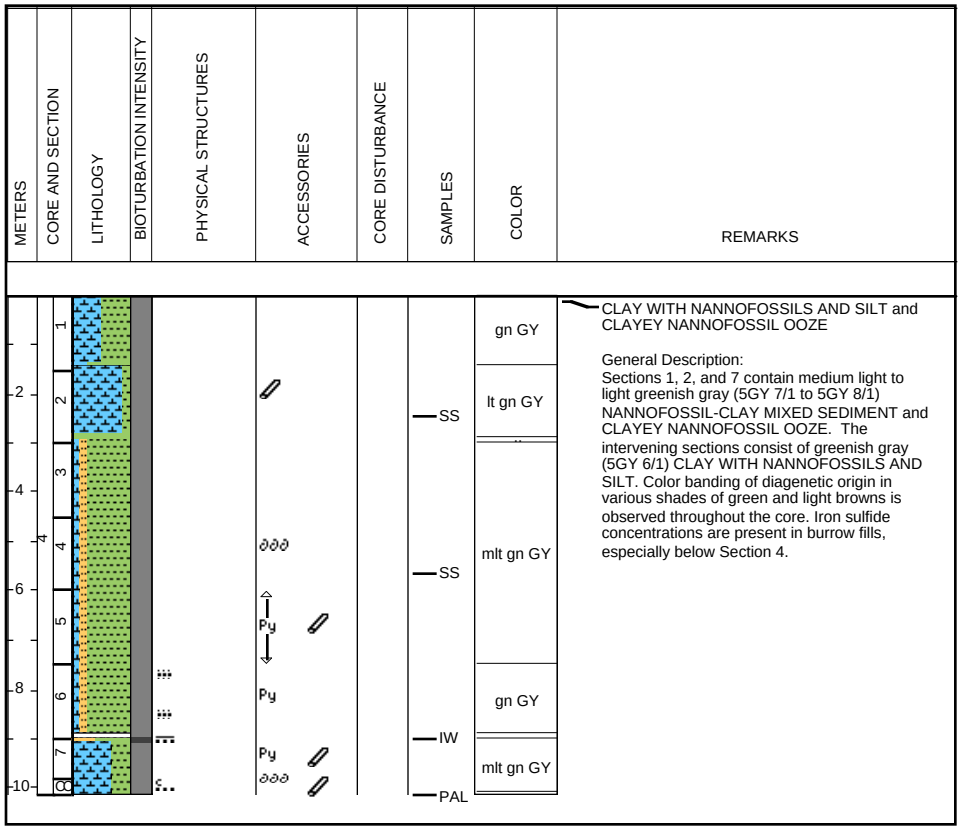
Site 1057 Hole A Core 3H

Cored 17.0-26.5 mbsf



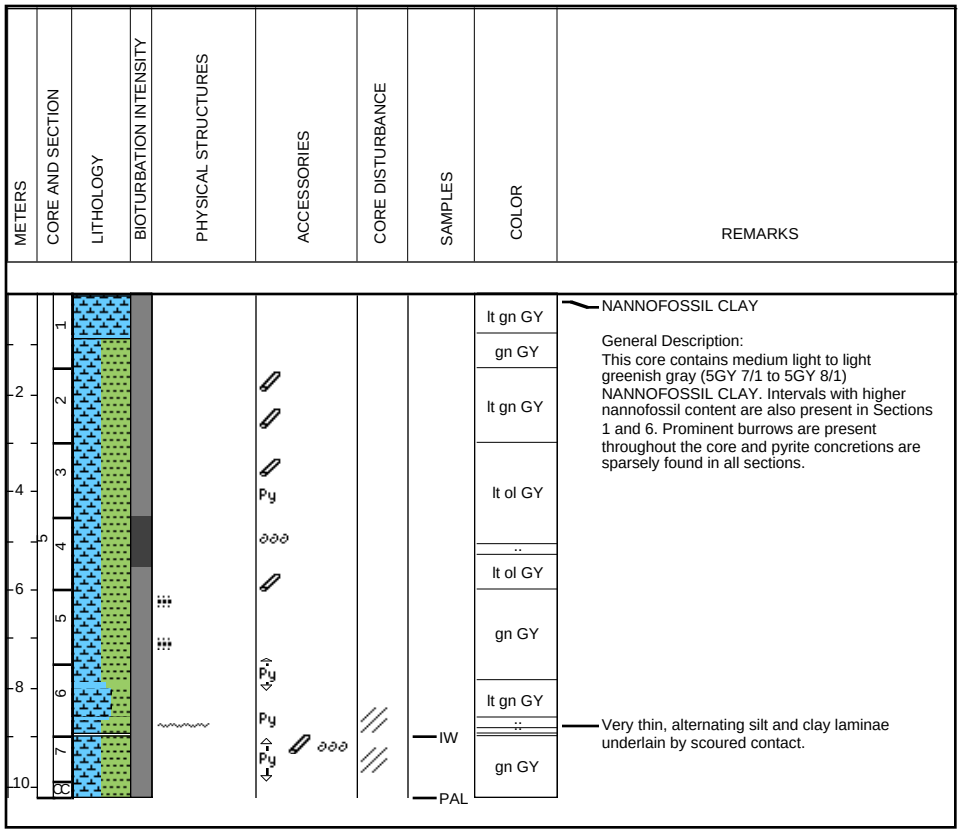
Site 1057 Hole A Core 4H — Cored 26.5-36.0 mbsf

1057A-4H



Site 1057 Hole A Core 5H

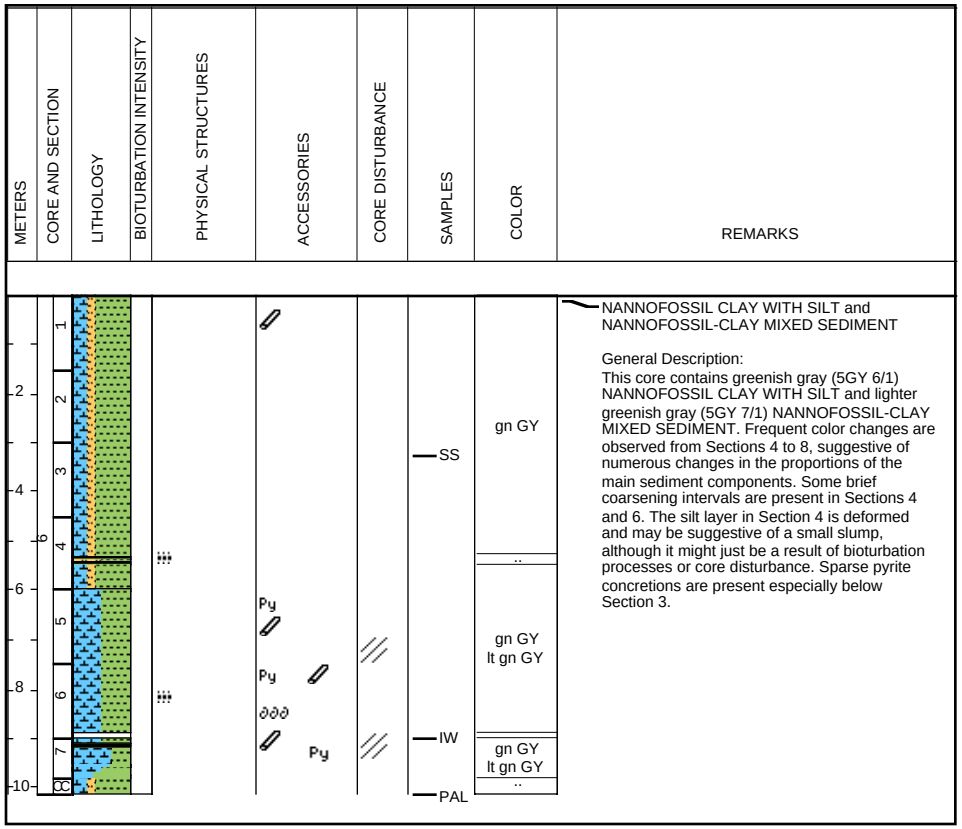
Cored 36.0-45.5 mbsf



Site 1057 Hole A Core 6H

Cored 45.5-55.0 mbsf

1057A-6H

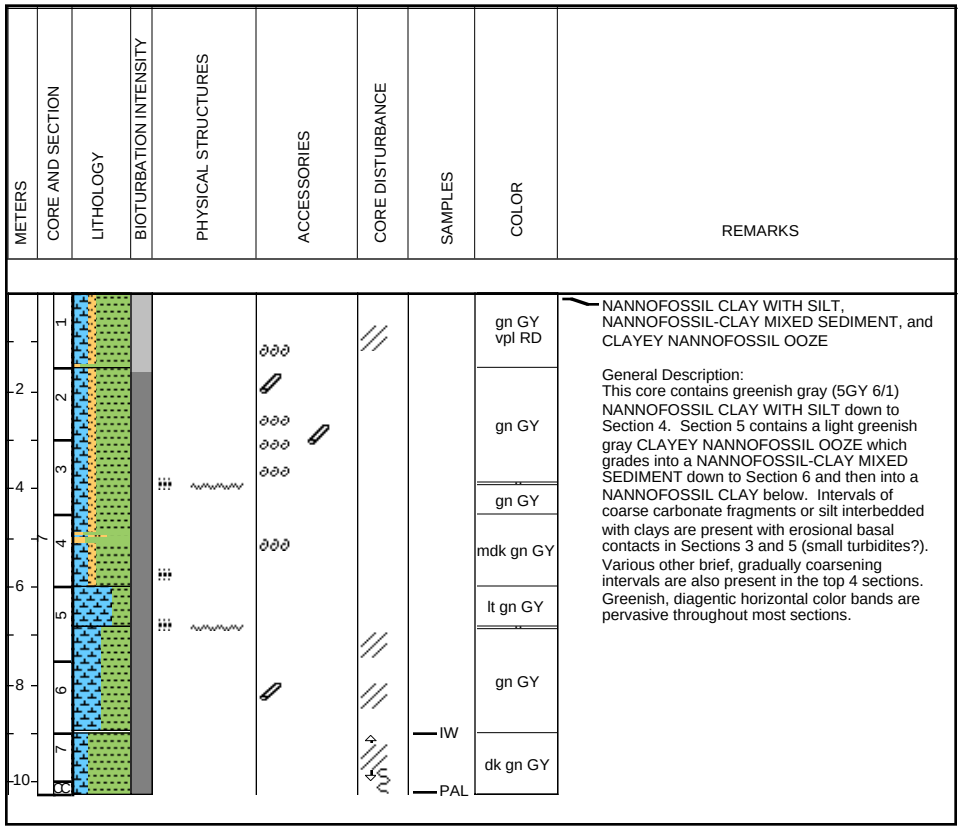


NANNOFOSSIL CLAY WITH SILT and NANNOFOSSIL-CLAY MIXED SEDIMENT

General Description:
This core contains greenish gray (5GY 6/1) NANNOFOSSIL CLAY WITH SILT and lighter greenish gray (5GY 7/1) NANNOFOSSIL-CLAY MIXED SEDIMENT. Frequent color changes are observed from Sections 4 to 8, suggestive of numerous changes in the proportions of the main sediment components. Some brief coarsening intervals are present in Sections 4 and 6. The silt layer in Section 4 is deformed and may be suggestive of a small slump, although it might just be a result of bioturbation processes or core disturbance. Sparse pyrite concretions are present especially below Section 3.

Site 1057 Hole A Core 7H

Cored 55.0-64.5 mbsf



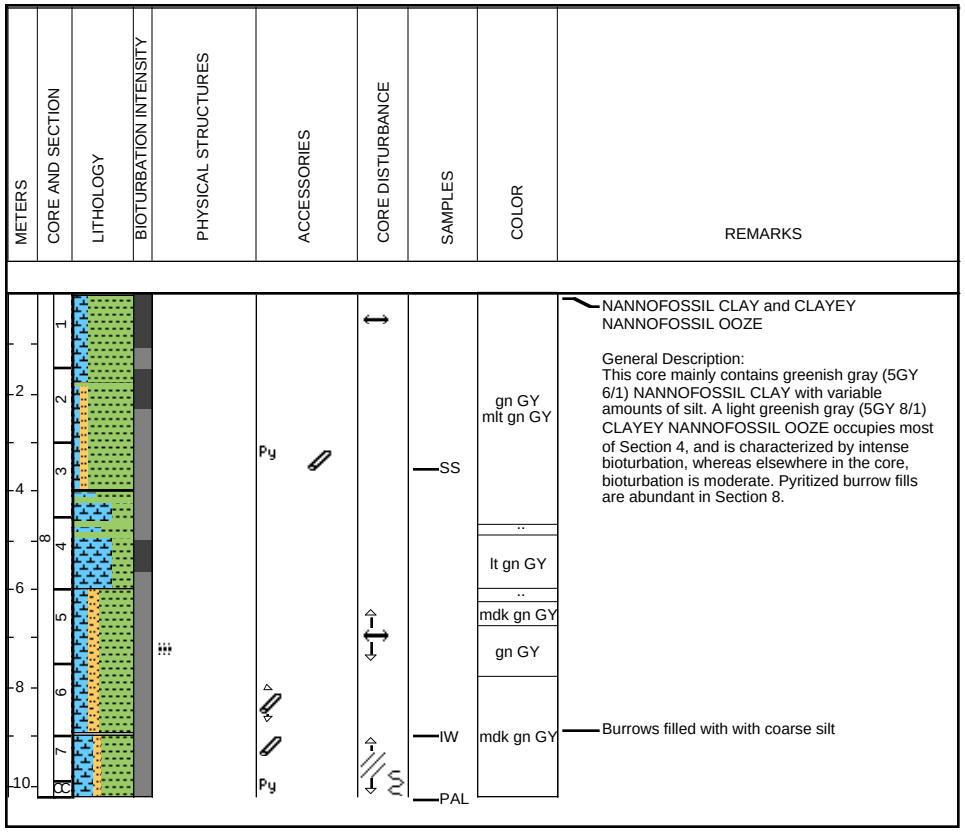
NANNOFOSSIL CLAY WITH SILT, NANNOFOSSIL-CLAY MIXED SEDIMENT, and CLAYEY NANNOFOSSIL OOZE

General Description:
This core contains greenish gray (5GY 6/1) NANNOFOSSIL CLAY WITH SILT down to Section 4. Section 5 contains a light greenish gray CLAYEY NANNOFOSSIL OOZE which grades into a NANNOFOSSIL-CLAY MIXED SEDIMENT down to Section 6 and then into a NANNOFOSSIL CLAY below. Intervals of coarse carbonate fragments or silt interbedded with clays are present with erosional basal contacts in Sections 3 and 5 (small turbidites?). Various other brief, gradually coarsening intervals are also present in the top 4 sections. Greenish, diagentic horizontal color bands are pervasive throughout most sections.

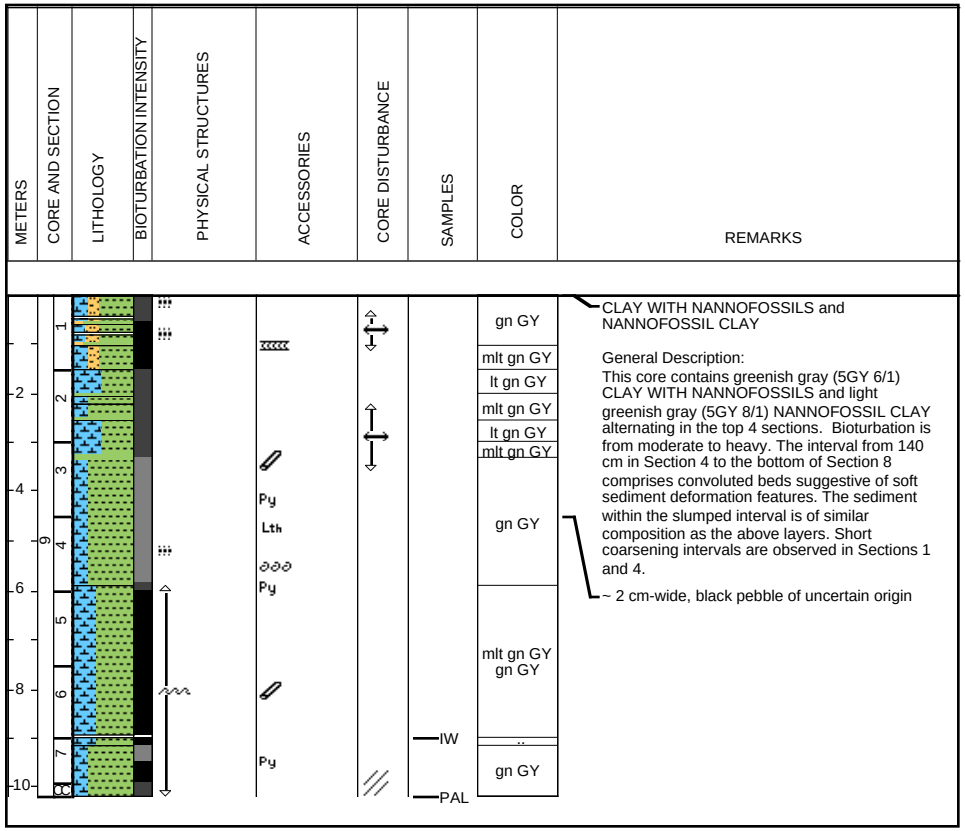
Site 1057 Hole A Core 8H

Cored 64.5-74.0 mbsf

1057A-8H



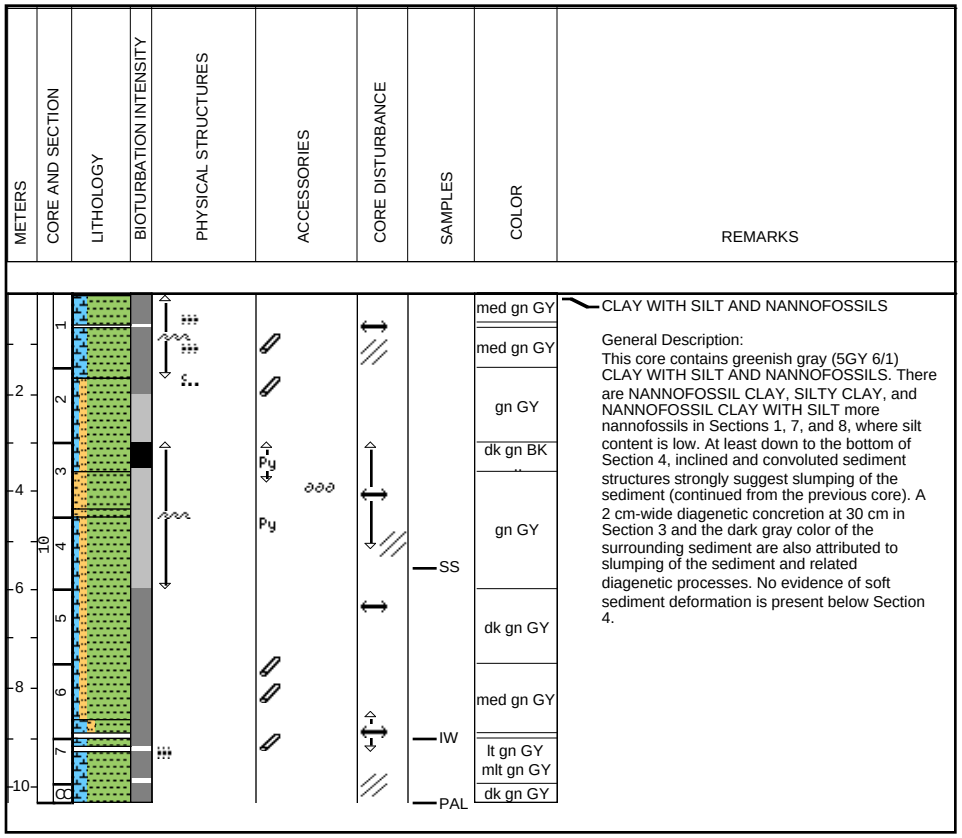
Site 1057 Hole A Core 9H — Cored 74.0-83.5 mbsf



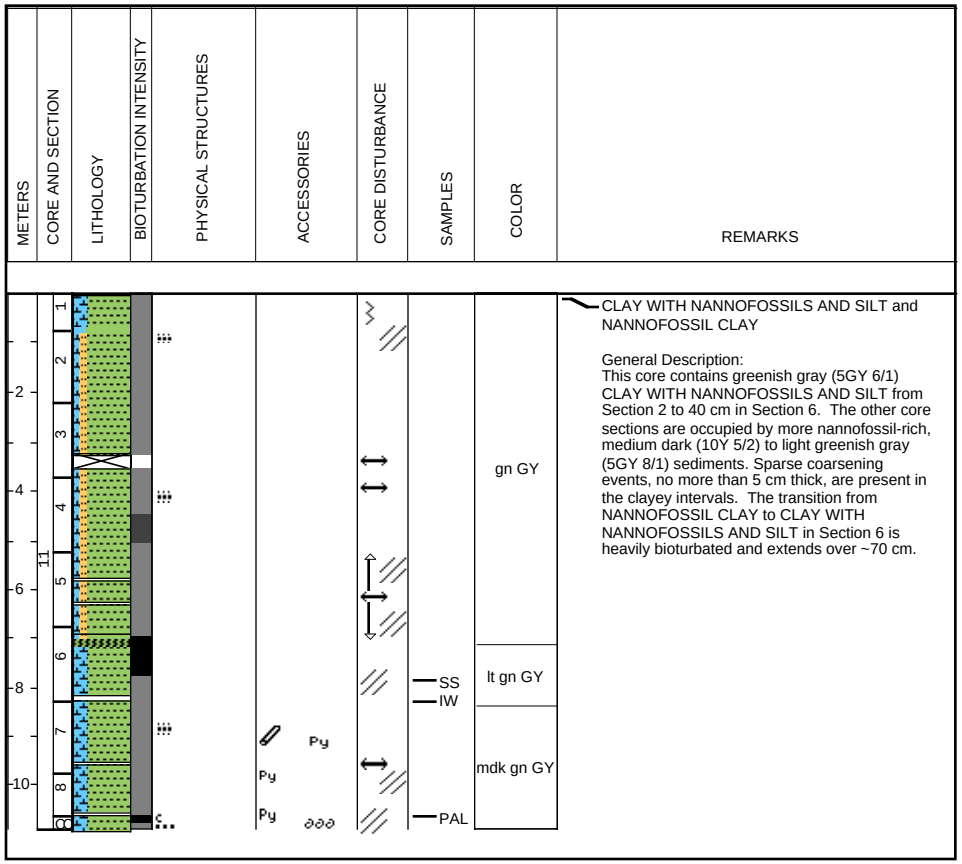
Site 1057 Hole A Core 10H

Cored 83.5-93.0 mbsf

1057A-10H



Site 1057 Hole A Core 11H — Cored 93.0-102.5 mbsf



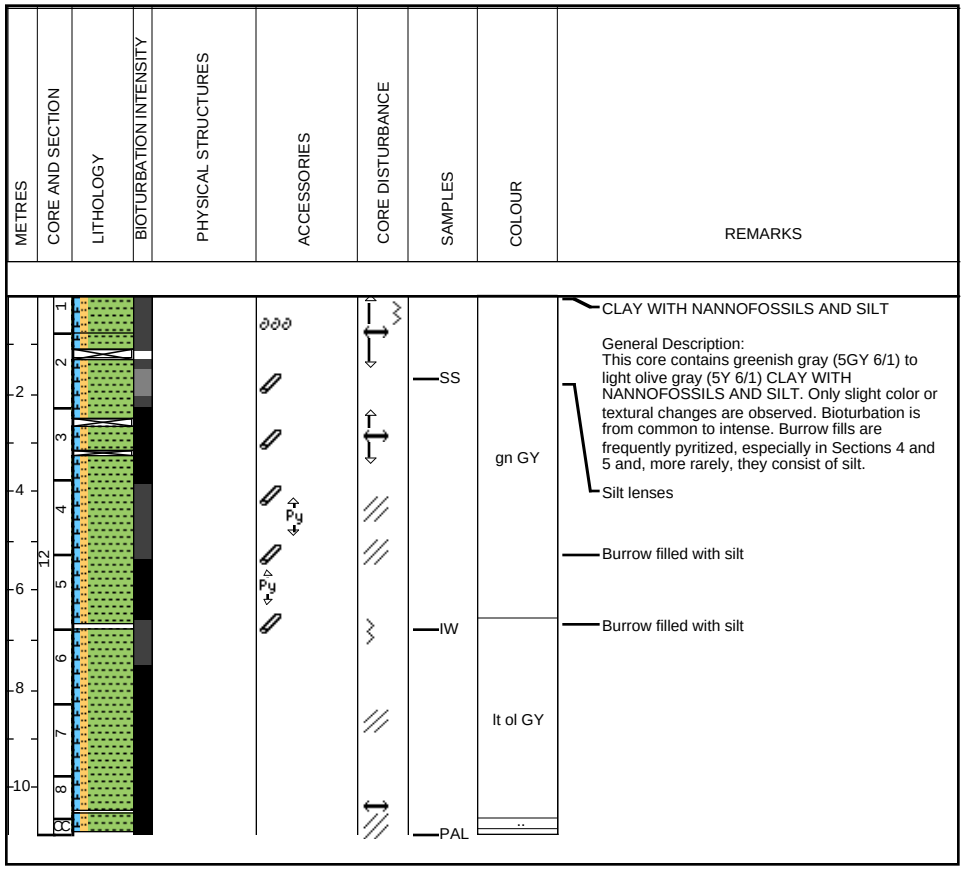
CLAY WITH NANNOFOSSILS AND SILT and NANNOFOSSIL CLAY

General Description:
This core contains greenish gray (5GY 6/1) CLAY WITH NANNOFOSSILS AND SILT from Section 2 to 40 cm in Section 6. The other core sections are occupied by more nannofossil-rich, medium dark (10Y 5/2) to light greenish gray (5GY 8/1) sediments. Sparse coarsening events, no more than 5 cm thick, are present in the clayey intervals. The transition from NANNOFOSSIL CLAY to CLAY WITH NANNOFOSSILS AND SILT in Section 6 is heavily bioturbated and extends over ~70 cm.

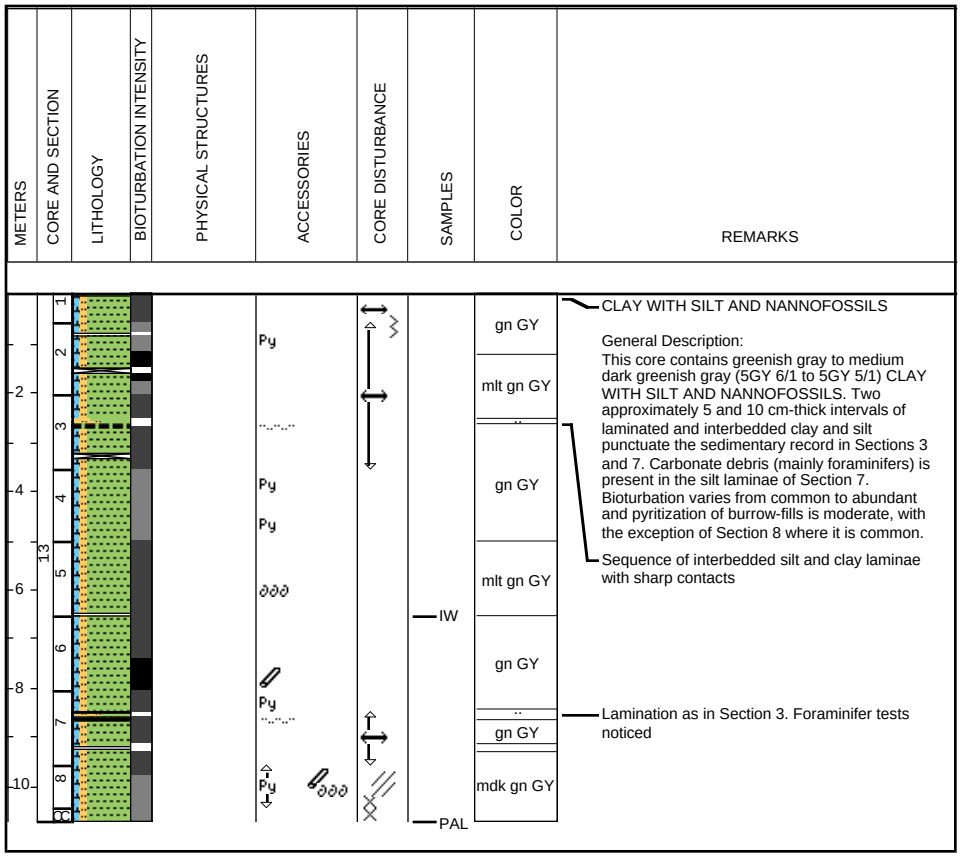
Site 1057 Hole A Core 12H

Cored 102.5-112.0 mbsf

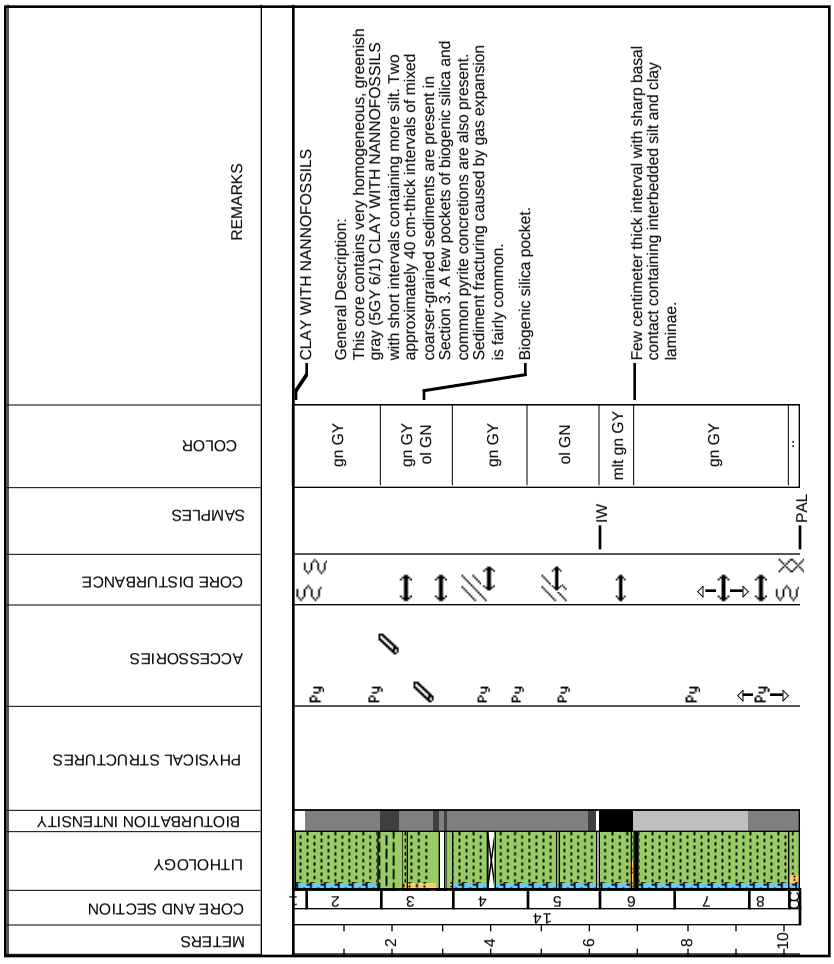
1057A-12H



Site 1057 Hole A Core 13H — Cored 112.0-121.5 mbsf

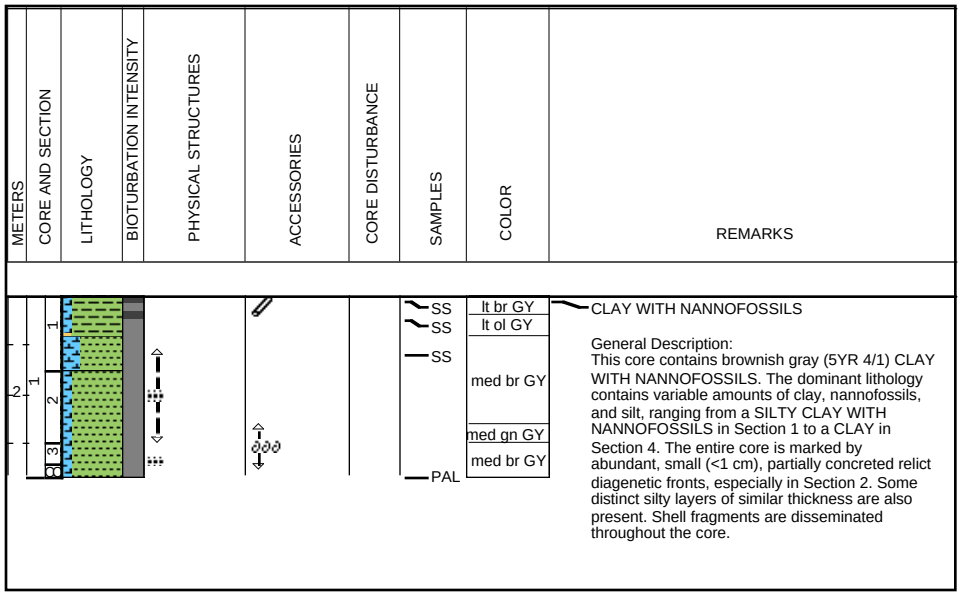


1057A-14H


Site 1057 Hole A Core 14H
Cored 121.5-131.0 mbsf
METERS
CORE AND SECTION
LITHOLOGY
BIOTURBATION INTENSITY
PHYSICAL STRUCTURES
ACCESSORIES
CORE DISTURBANCE
SAMPLES
COLOR
REMARKS
CLAY WITH NANNOFOSSILS
General Description:
This core contains very homogeneous, greenish gray (5GY 6/1) CLAY WITH NANNOFOSSILS with short intervals containing more silt. Two approximately 40 cm-thick intervals of mixed coarser-grained sediments are present in Section 3. A few pockets of biogenic silica and common pyrite concretions are also present. Sediment fracturing caused by gas expansion is fairly common.
Biogenic silica pocket.
Few centimeter thick interval with sharp basal contact containing interbedded silt and clay laminae.
gn GY
gn GY ol GN
gn GY
ol GN
mlt gn GY
gn GY
IW
PAL
Py
14
2
3
4
5
6
7
8
CC
2
4
6
8
10

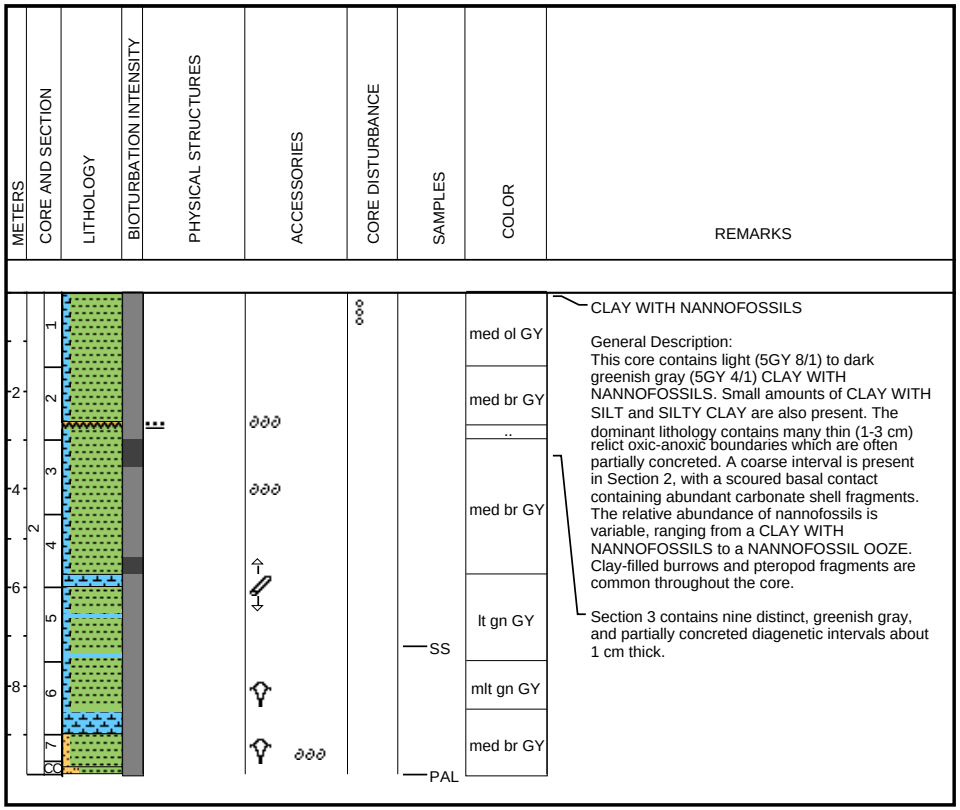
Site 1057 Hole B Core 1H

Cored 0.0-3.7 mbsf



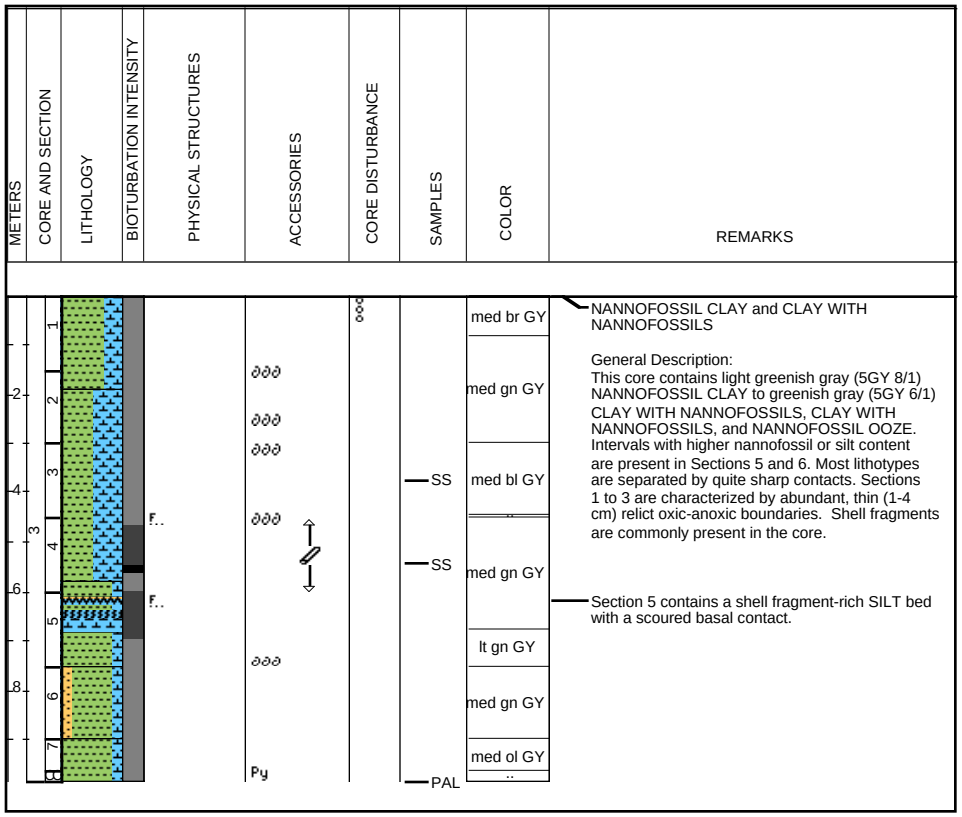
Site 1057 Hole B Core 2H — Cored 3.7-13.2 mbsf

1057B-2H

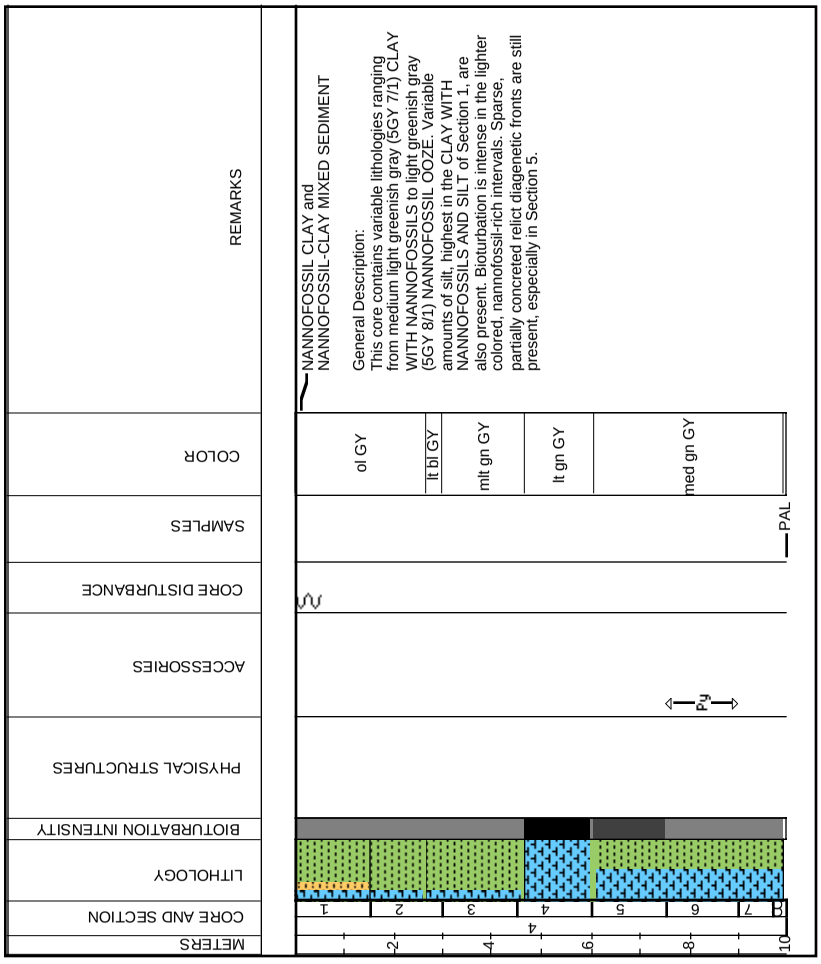


Site 1057 Hole B Core 3H

Cored 13.2-22.7 mbsf

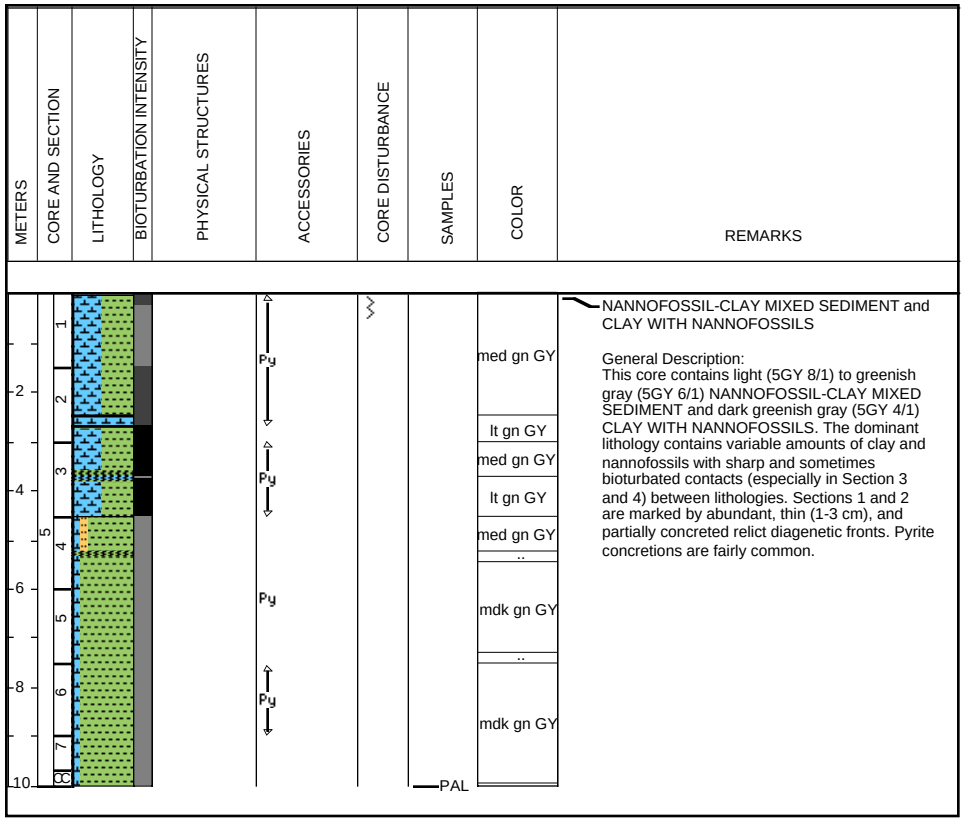


1057B-4H


Site 1057 Hole B Core 4H
Cored 22.7-32.2 mbsf
METERS
CORE AND SECTION
LITHOLOGY
BIOTURBATION INTENSITY
PHYSICAL STRUCTURES
ACCESSORIES
CORE DISTURBANCE
SAMPLES
COLOR
REMARKS
NANNOFOSSIL CLAY and
NANNOFOSSIL-CLAY MIXED SEDIMENT
General Description:
This core contains variable lithologies ranging from medium light greenish gray (5GY 7/1) CLAY WITH NANNOFOSSILS to light greenish gray (5GY 8/1) NANNOFOSSIL OOZE. Variable amounts of silt, highest in the CLAY WITH NANNOFOSSILS AND SILT of Section 1, are also present. Bioturbation is intense in the lighter colored, nannofossil-rich intervals. Sparse, partially concreted relict diagenetic fronts are still present, especially in Section 5.
ol GY
lt bl GY
mlt gn GY
lt gn GY
med gn GY
PAL
Py
1
2
3
4
5
6
7
CC
2
4
6
8
10

Site 1057 Hole B Core 5H

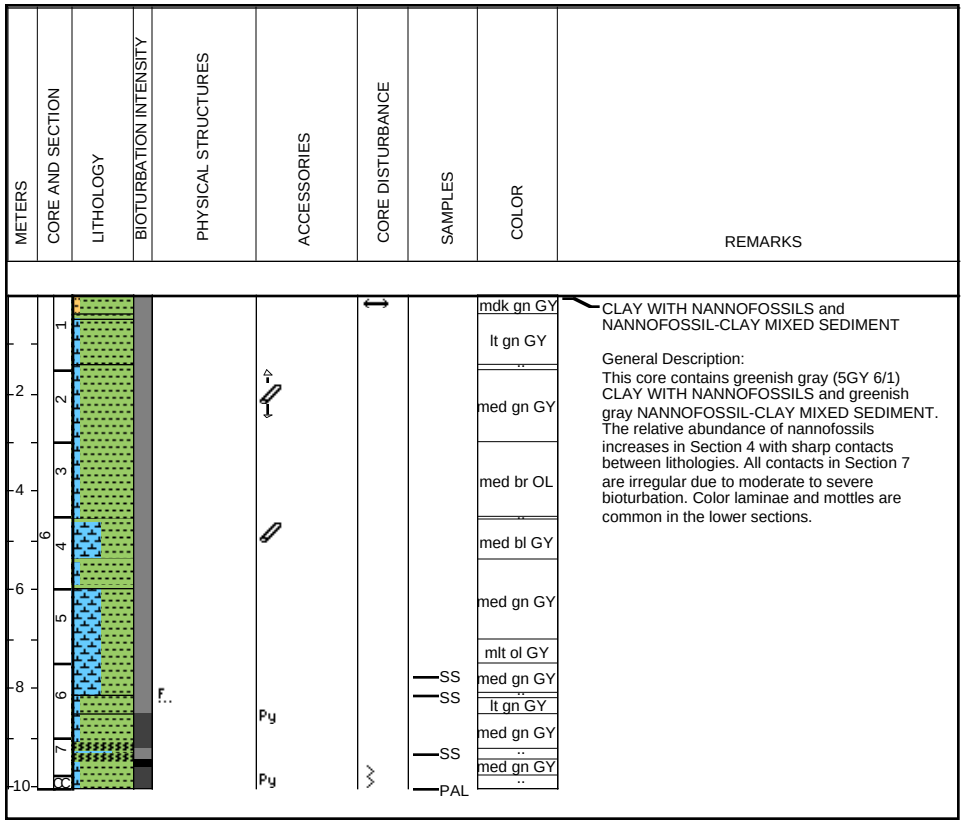
Cored 32.2-41.7 mbsf



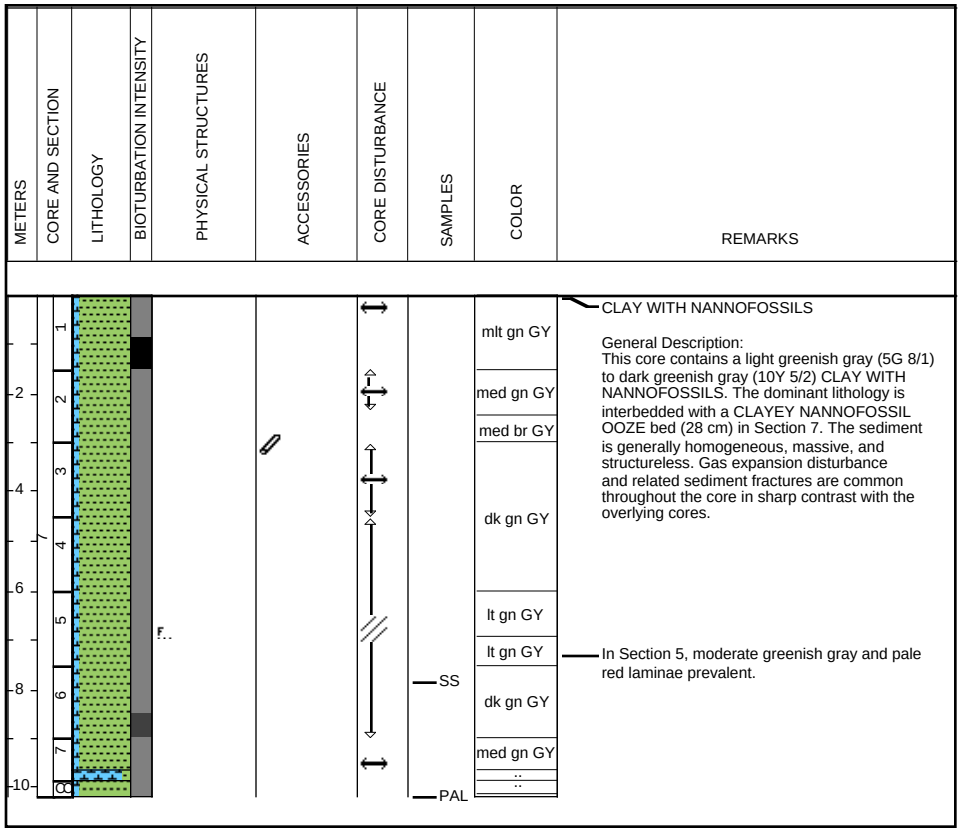
Site 1057 Hole B Core 6H

Cored 41.7-51.2 mbsf

1057B-6H



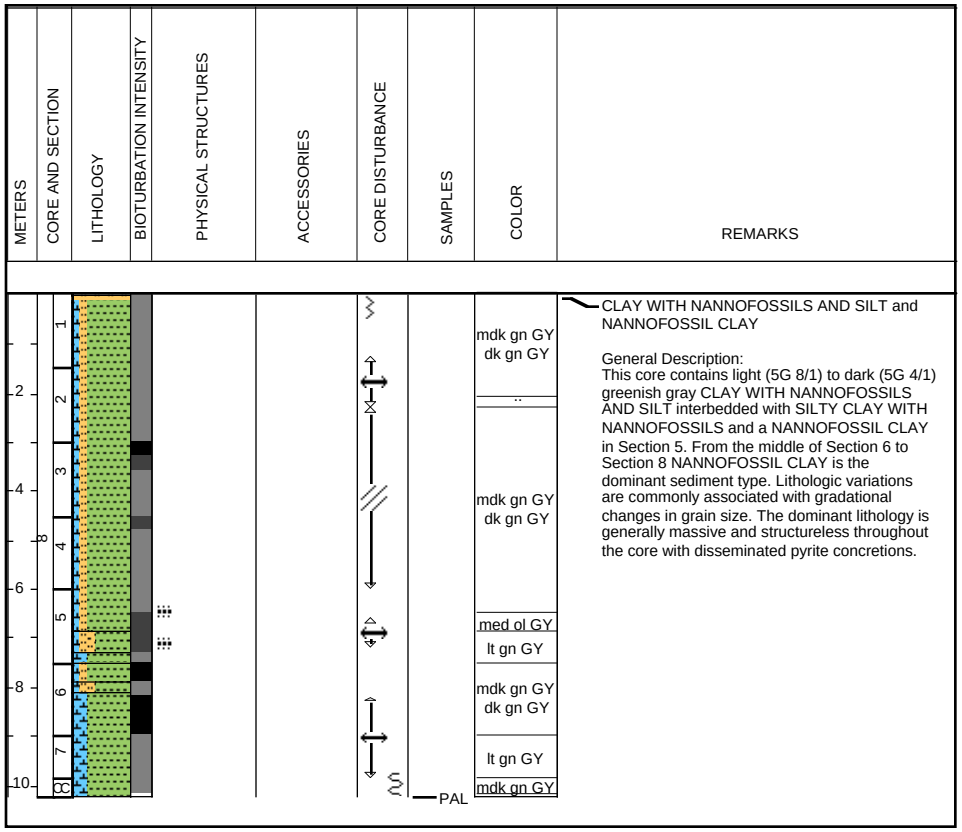
Site 1057 Hole B Core 7H **Cored 51.2-60.7 mbsf**



Site 1057 Hole B Core 8H

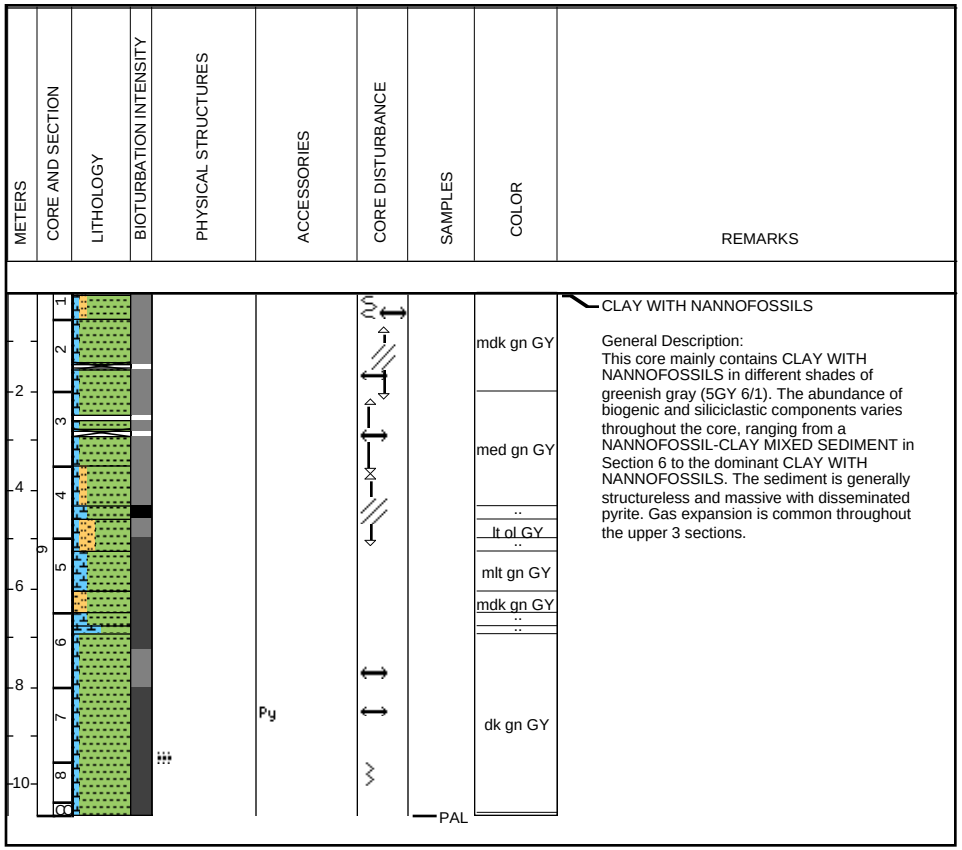
Cored 60.7-70.2 mbsf

1057B-8H



Site 1057 Hole B Core 9H

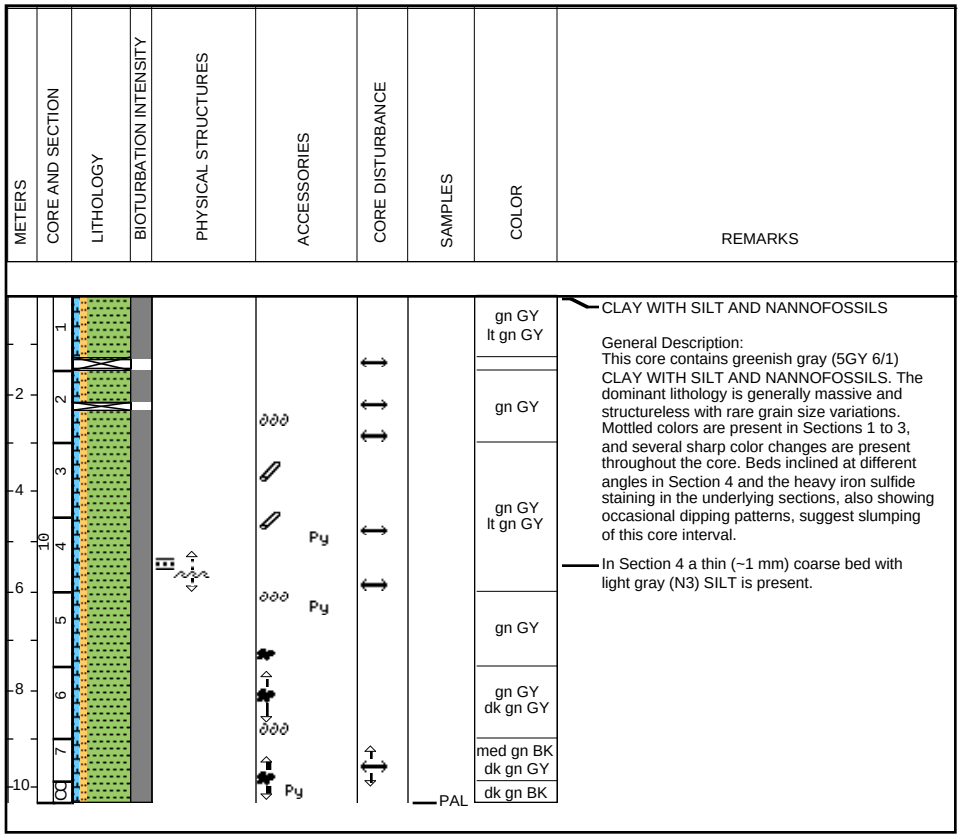
Cored 70.2-79.7 mbsf



Site 1057 Hole B Core 10H

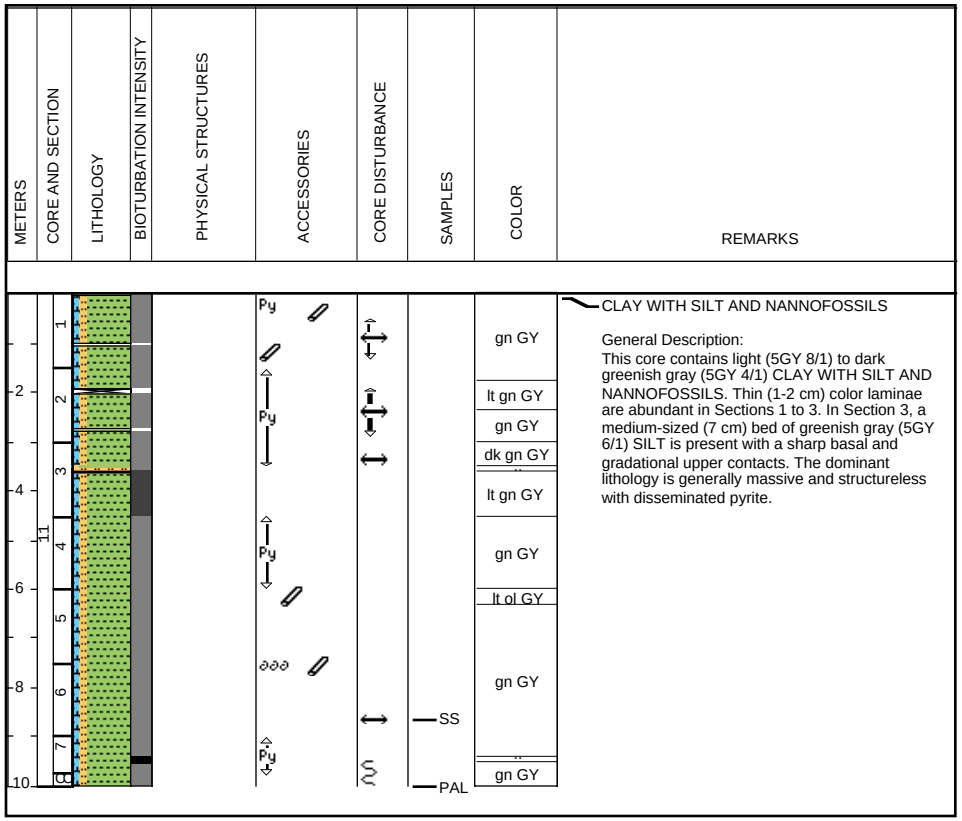
Cored 79.7-89.2 mbsf

1057B-10H



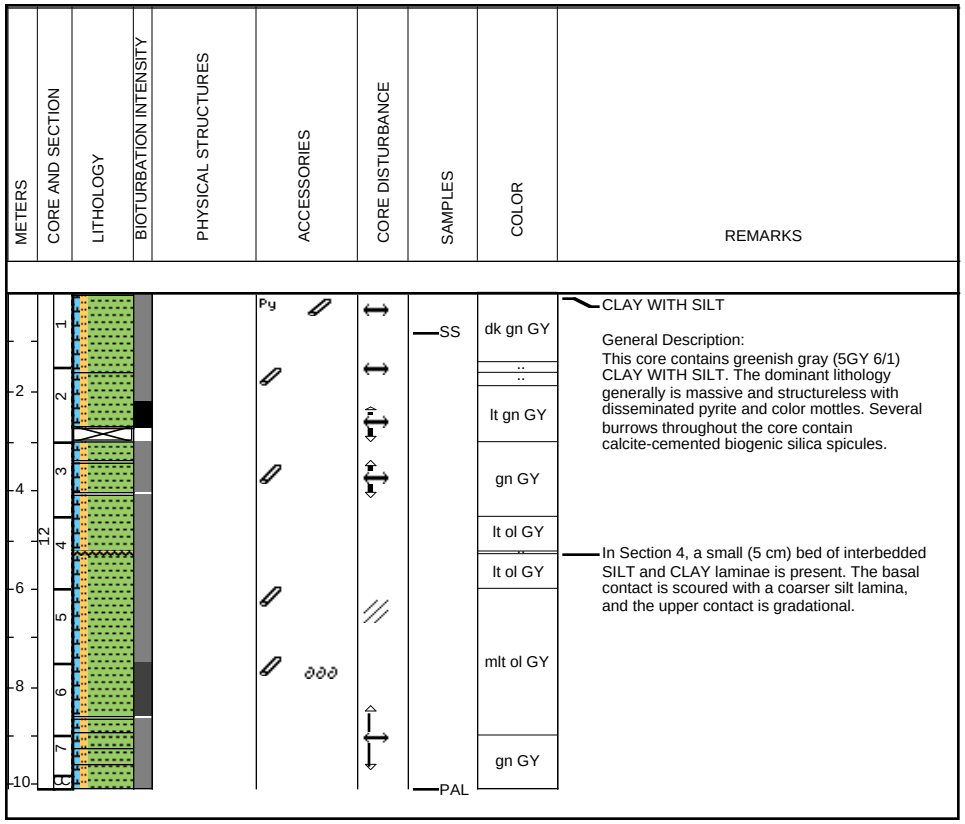
Site 1057 Hole B Core 11H

Cored 89.2-98.7 mbsf

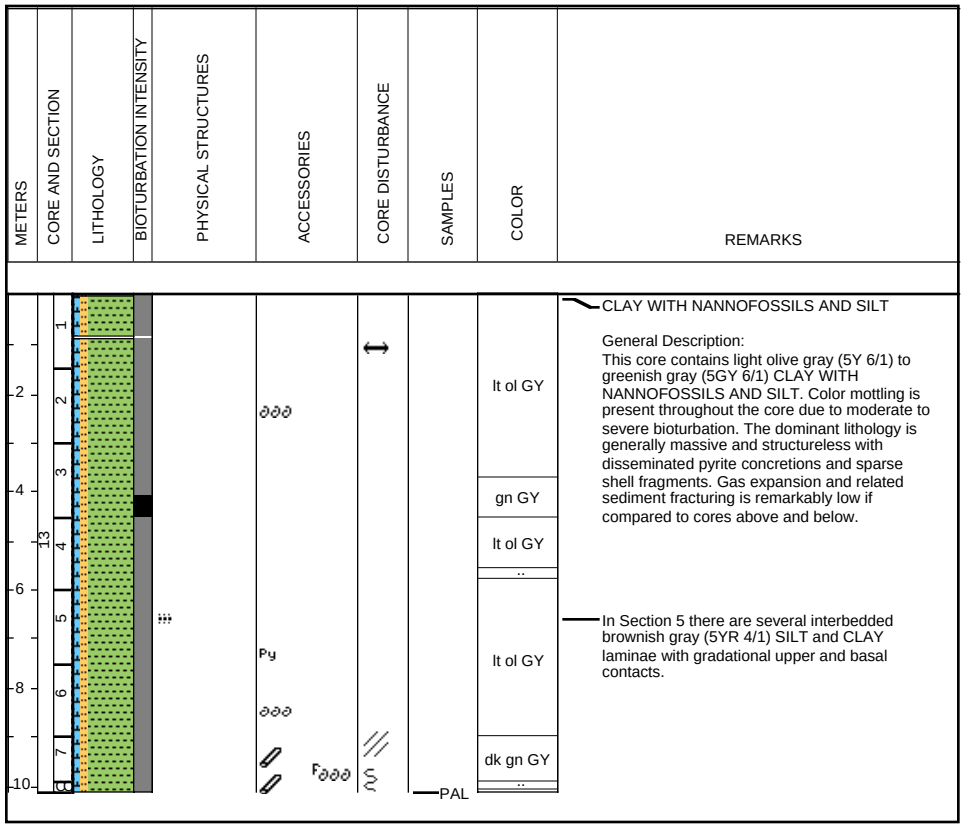


Site 1057 Hole B Core 12H — Cored 98.7-108.2 mbsf

1057B-12H



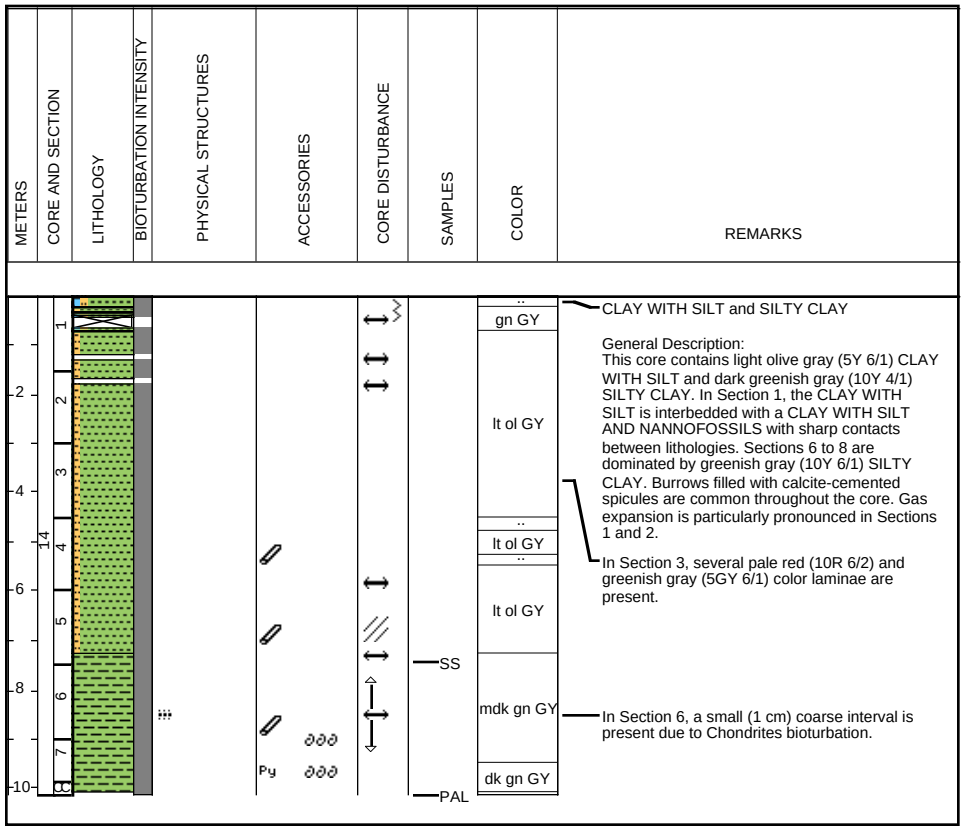
Site 1057 Hole B Core 13H **Cored 108.2-117.7 mbsf**



Site 1057 Hole B Core 14H

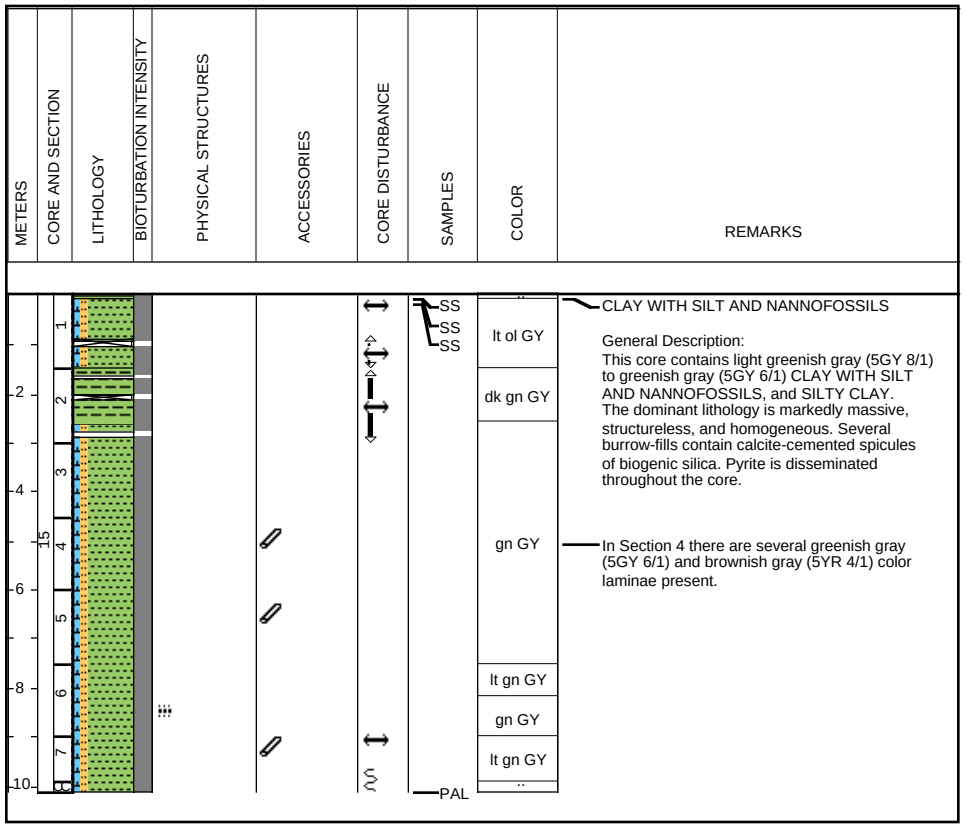
Cored 117.7-127.2 mbsf

1057B-14H



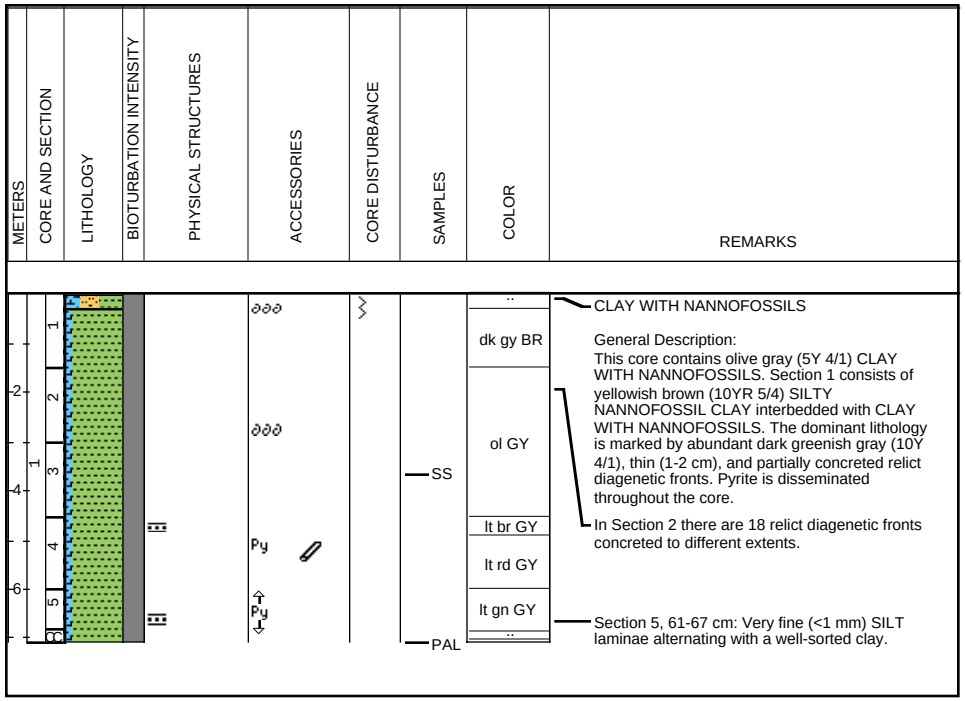
Site 1057 Hole B Core 15H

Cored 127.2-136.7 mbsf



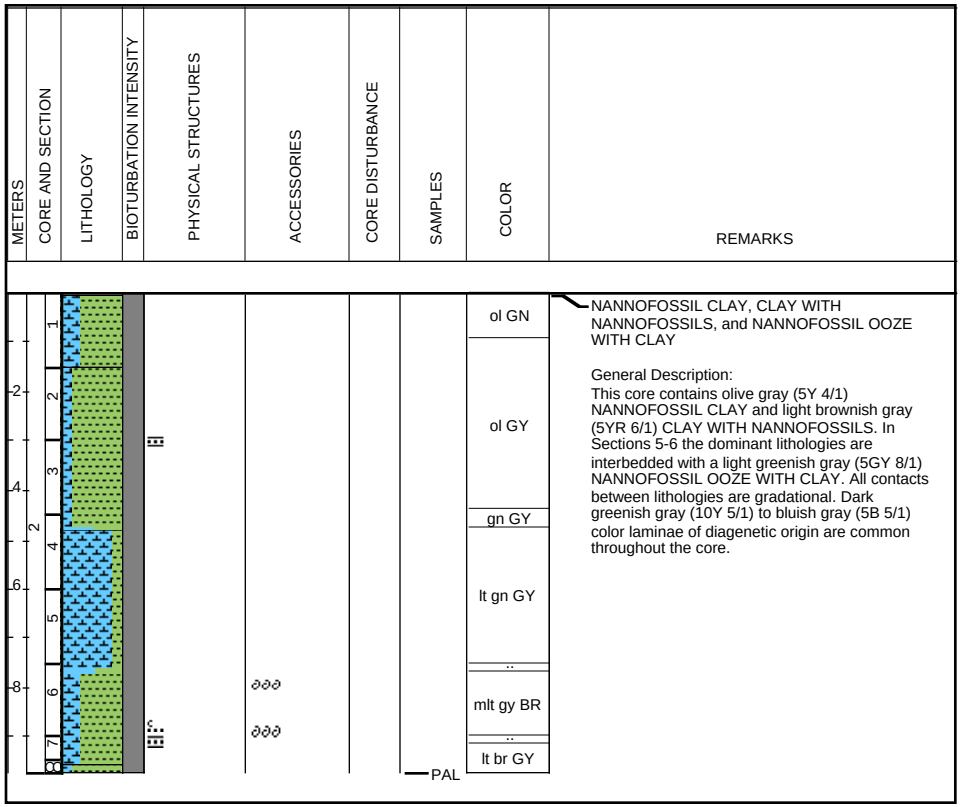
Site 1057 Hole C Core 1H

Cored 0.0-7.0 mbsf



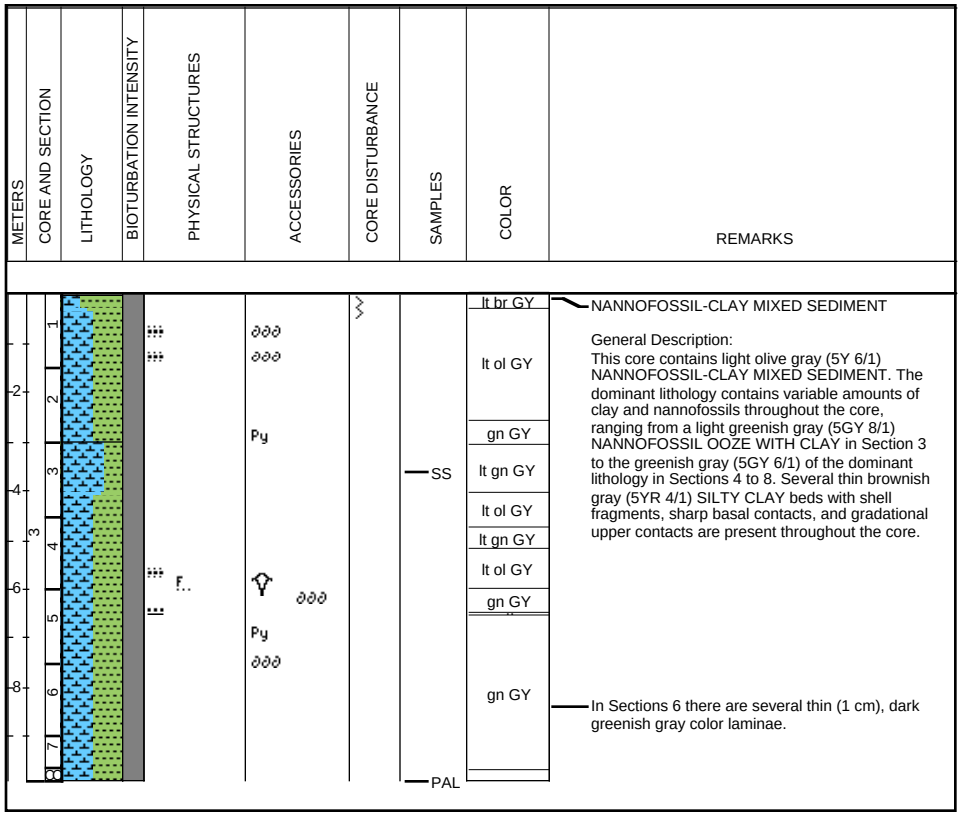
Site 1057 Hole C Core 2H

Cored 7.0-16.5 mbsf

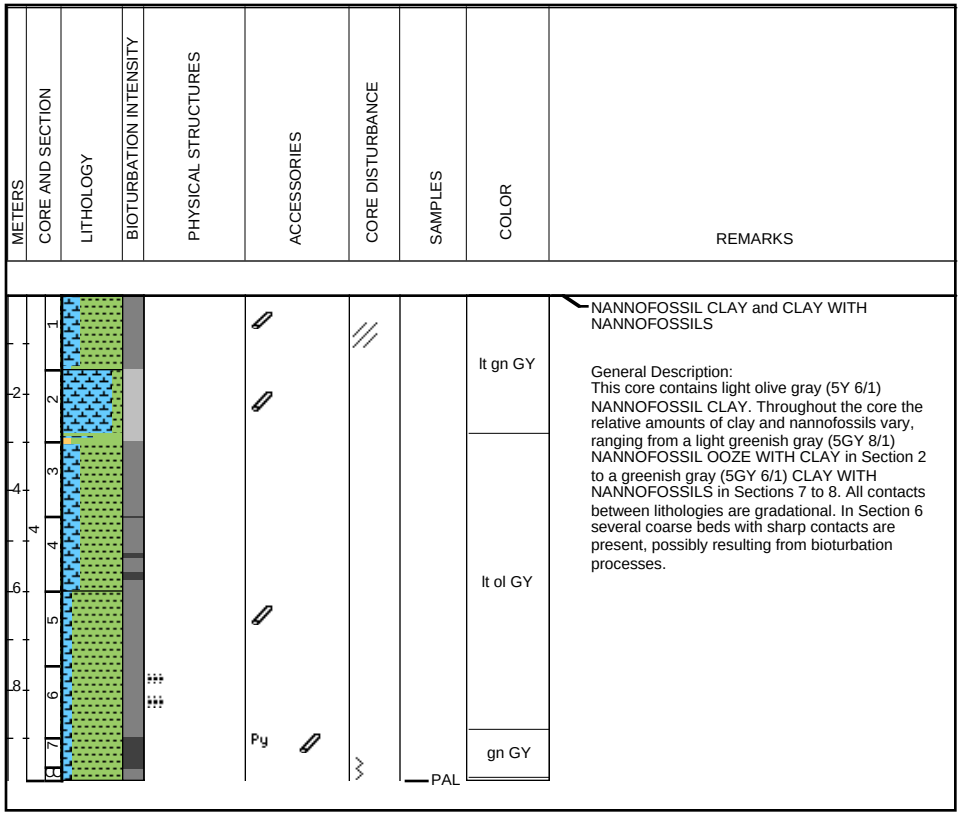


Site 1057 Hole C Core 3H — Cored 16.5-26.0 mbsf

1057C-3H

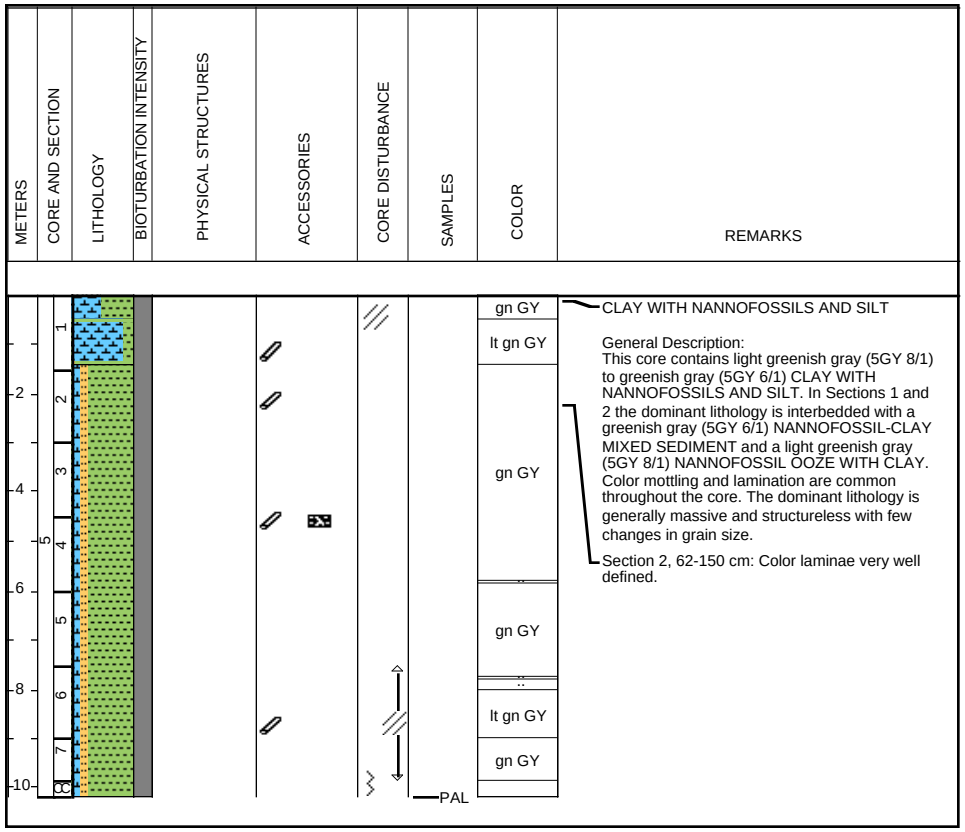


Site 1057 Hole C Core 4H — Cored 26.0-35.5 mbsf



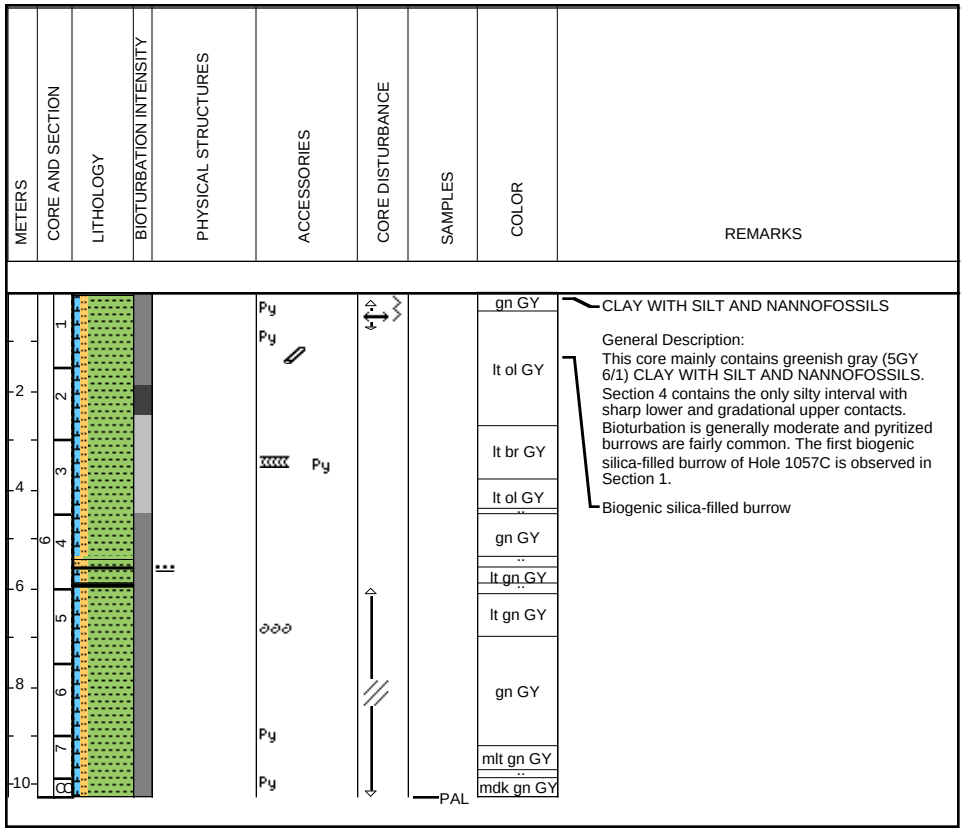
Site 1057 Hole C Core 5H

Cored 35.5-45.0 mbsf

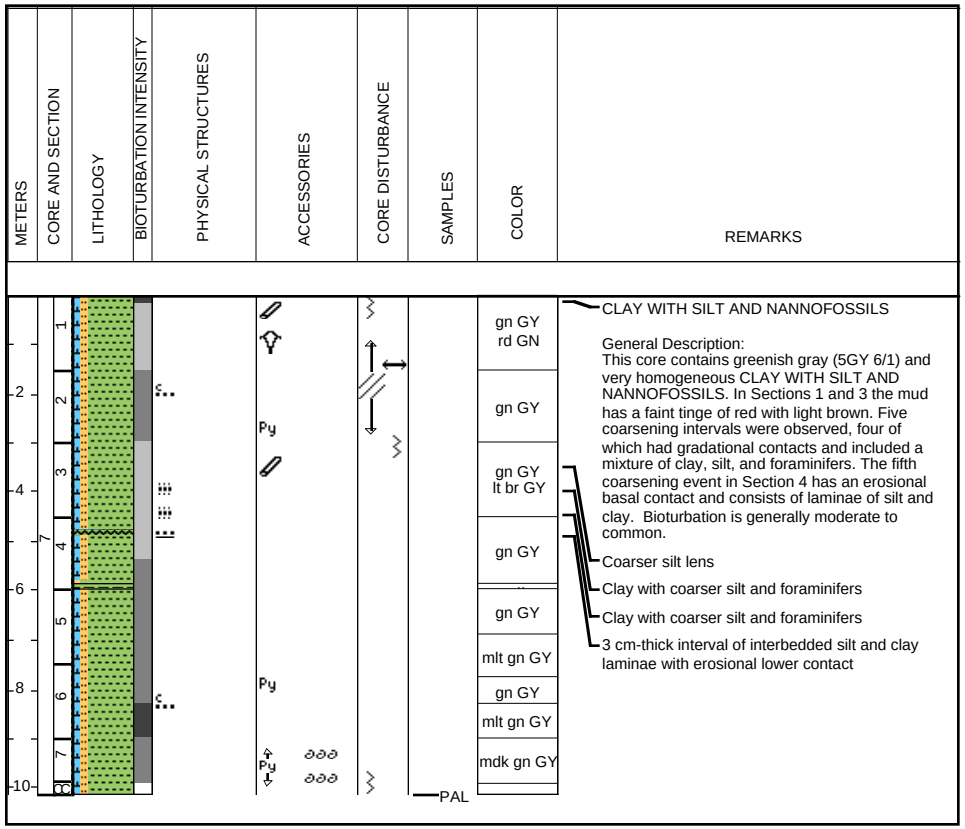


Site 1057 Hole C Core 6H

Cored 45.0-54.5 mbsf



Site 1057 Hole C Core 7H — Cored 54.5-64.0 mbsf



Site 1057 Hole C Core 8H **Cored 64.0-73.5 mbsf**