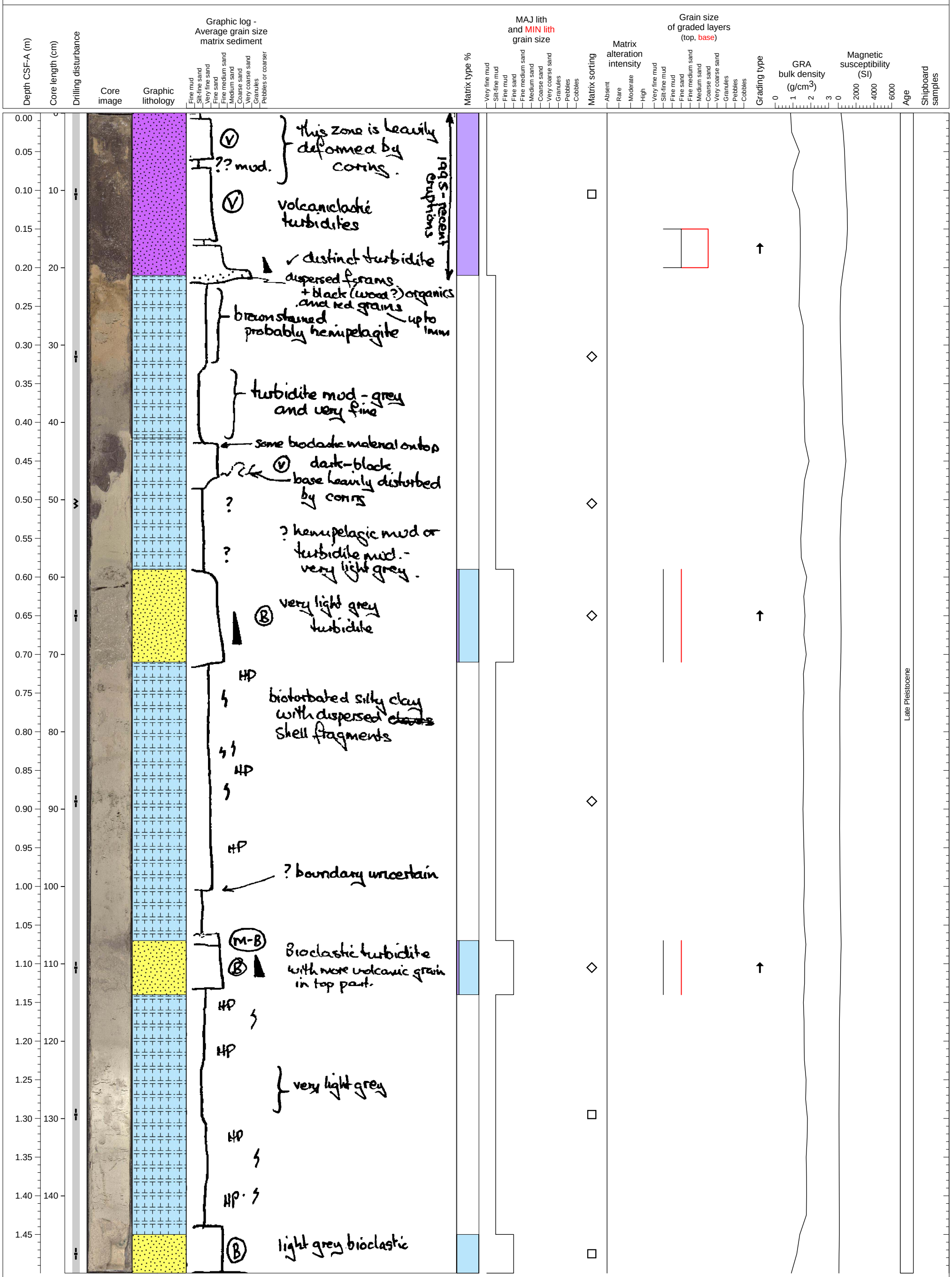
Hole 340-U1395B-1H Section 1, Top of Section: 0.0 CSF-A (m)

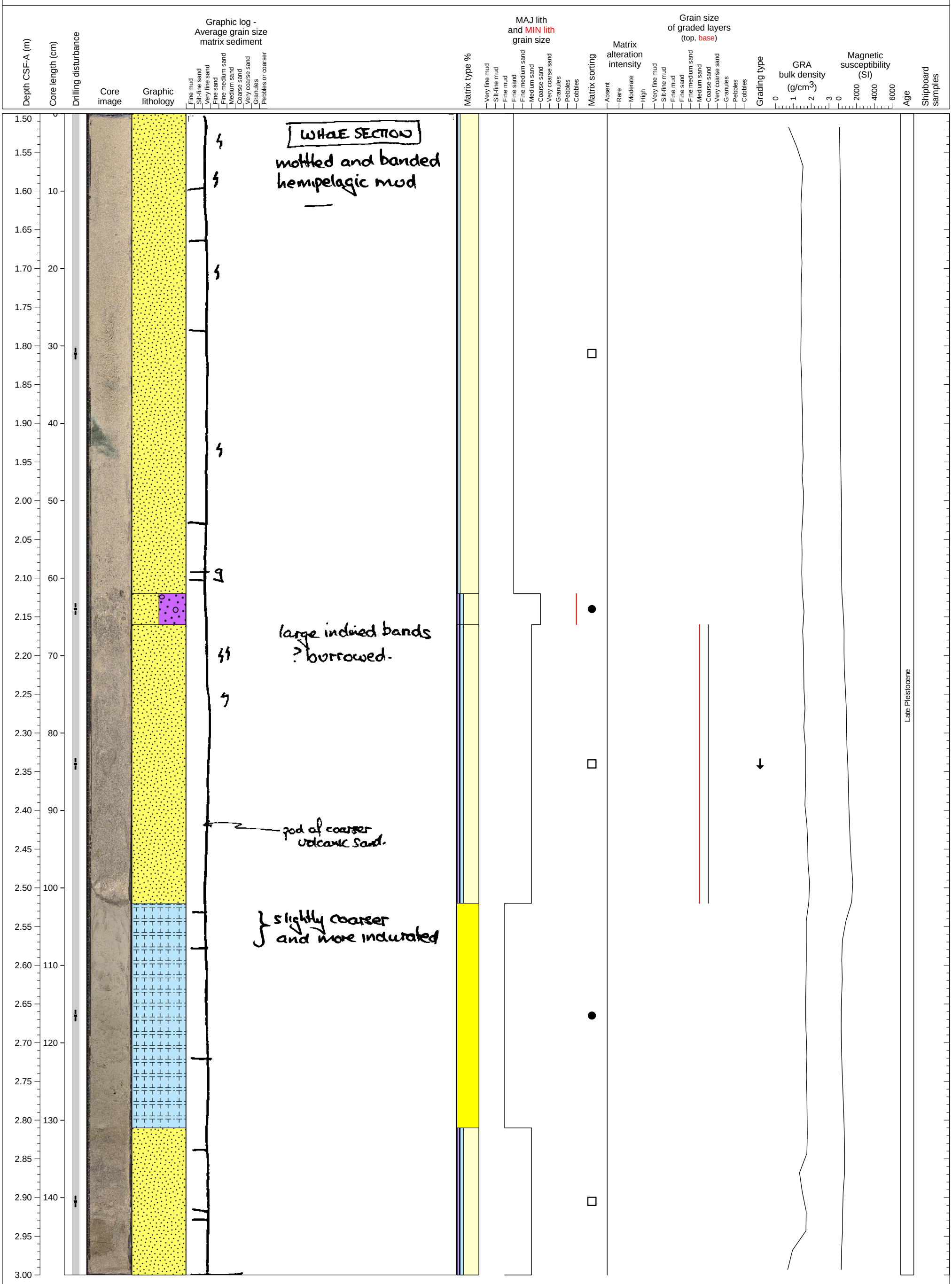
The uppermost 21 cm consist of very dark gray volcanic sand, which might have derived from recent eruptions. Other parts are mostly hemipelagic sediments, but light grey sand layers have volcanic materials up to 10 %.



Sample	Top [cm]	Bottom [cm]	Top Depth [m]	Bottom Depth [m]	Groundmass percentage [%]	Groundmass modal grain size [mm]	Groundmass comments	Volcanic grain [%]	Volcanic grain modal size [mm]	Biogenic grain [%]	Mineral grain [%]	Mineral grain modal size [mm]	Lithic grain [%]	Lithic grain modal size [mm]	Olivine present [%]	Olivine size MIN [mm]	Olivine shape	Olivine comment	Plagioclase present [%]	Plagioclase size MAX [mm]	Plagioclase shape	Plagioclase habit	Plagioclase comment	Clinopyroxene present [%]	Clinopyroxene size MAX [mm]	Clinopyroxene shape	Clinopyroxene habit	Clinopyroxene special features	Orthopyroxene present [%]	Orthopyroxene size MAX [mm]	Orthopyroxene shape	Orthopyroxene habit	Orthopyroxene comments	Amphibolite present [%]	Amphibolite size MAX [mm]	Amphibolite shape	Amphibolite habit	Amphibolite comments	Oxides present [%]	Oxides size MAX [mm]	Oxides shape	Oxides habit	Oxides comments	Quartz present [%]	Quartz size MAX [mm]	Quartz shape	Quartz habit	Comment
340-U1395B-14H-CC-W 8/10-TSB-TS#16	0	2	120.25	120.27																																												Pumice clast - too thin to properly log.

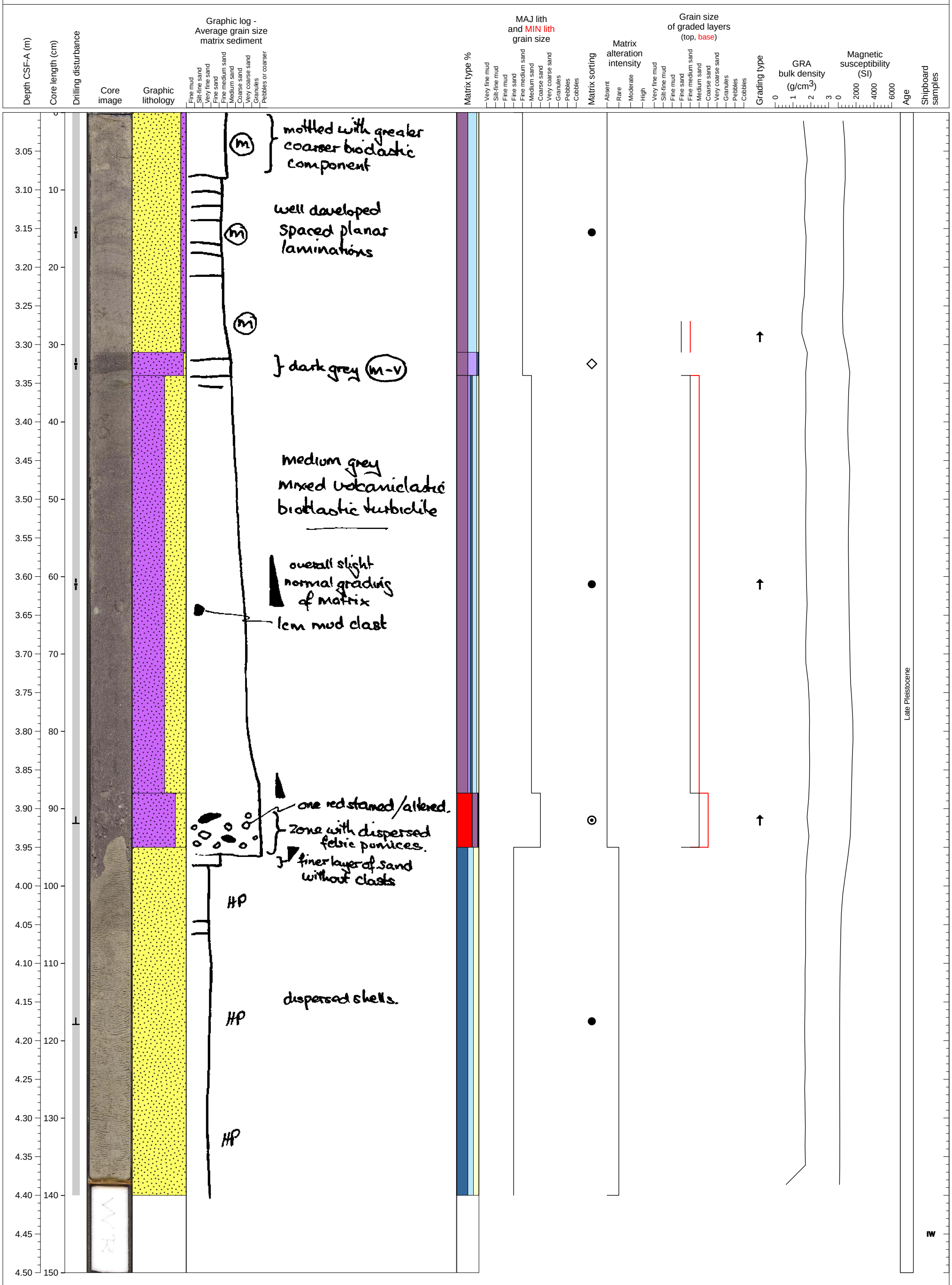
Hole 340-U1395B-1H Section 2, Top of Section: 1.5 CSF-A (m)

Two layers of Carcarious sands on carbonate ooze. The lower layer has weak reverse grading from medium sand to coarse sand with pebble sized grains consisting pumice and lava clasts.



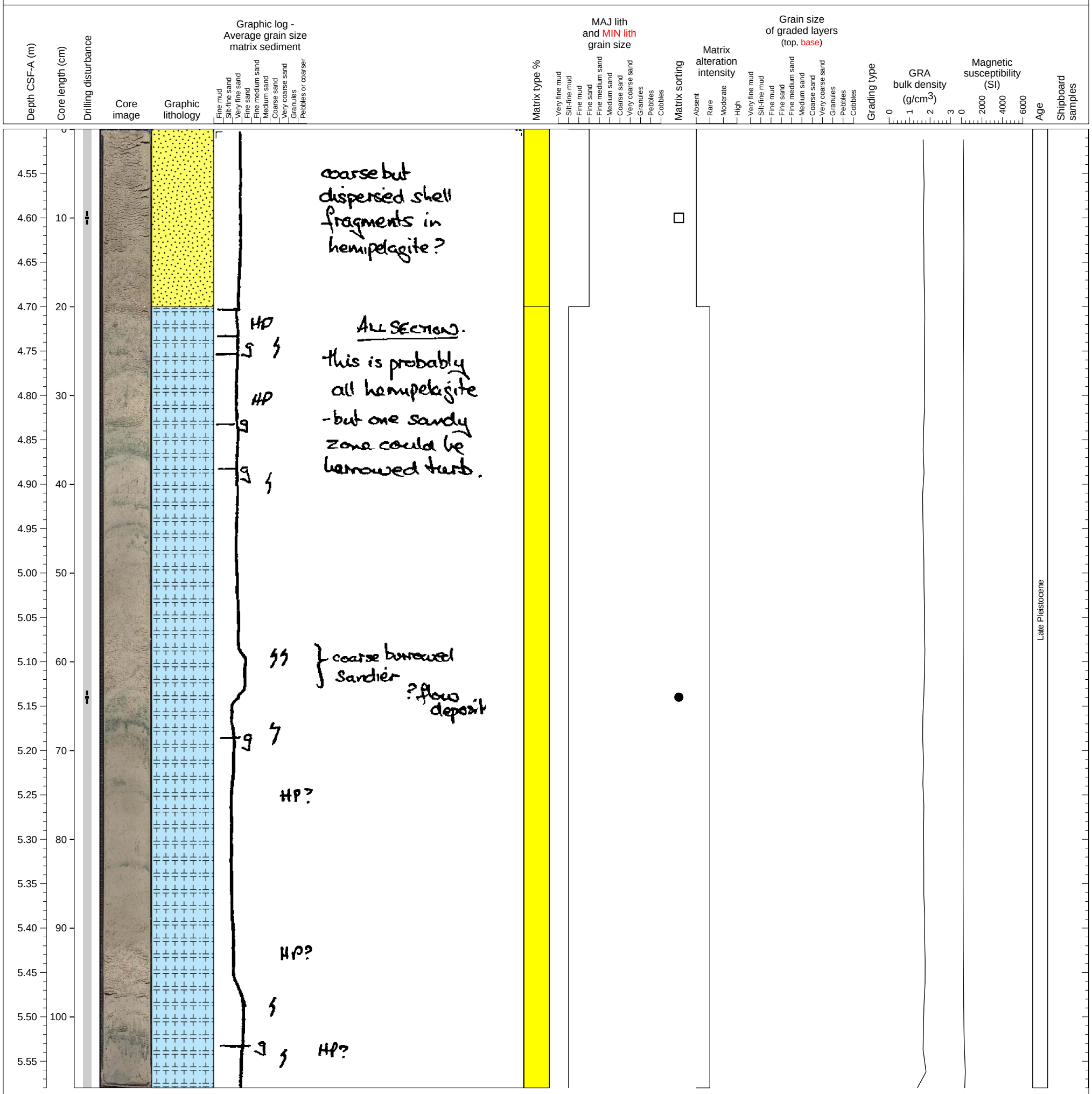
Hole 340-U1395B-1H Section 3, Top of Section: 3.0 CSF-A (m)

the upper part is laminated calcareous sand, the middle part is normal graded volcaniclastic turbidite, and the lower part is hemipelagic calcareous very fine sandy - silt (no volcanic component).



Hole 340-U1395B-1H Section 4, Top of Section: 4.5 CSF-A (m)

Fine grained calcereous sand overlying hemipelagic clay with significant bioturbation.

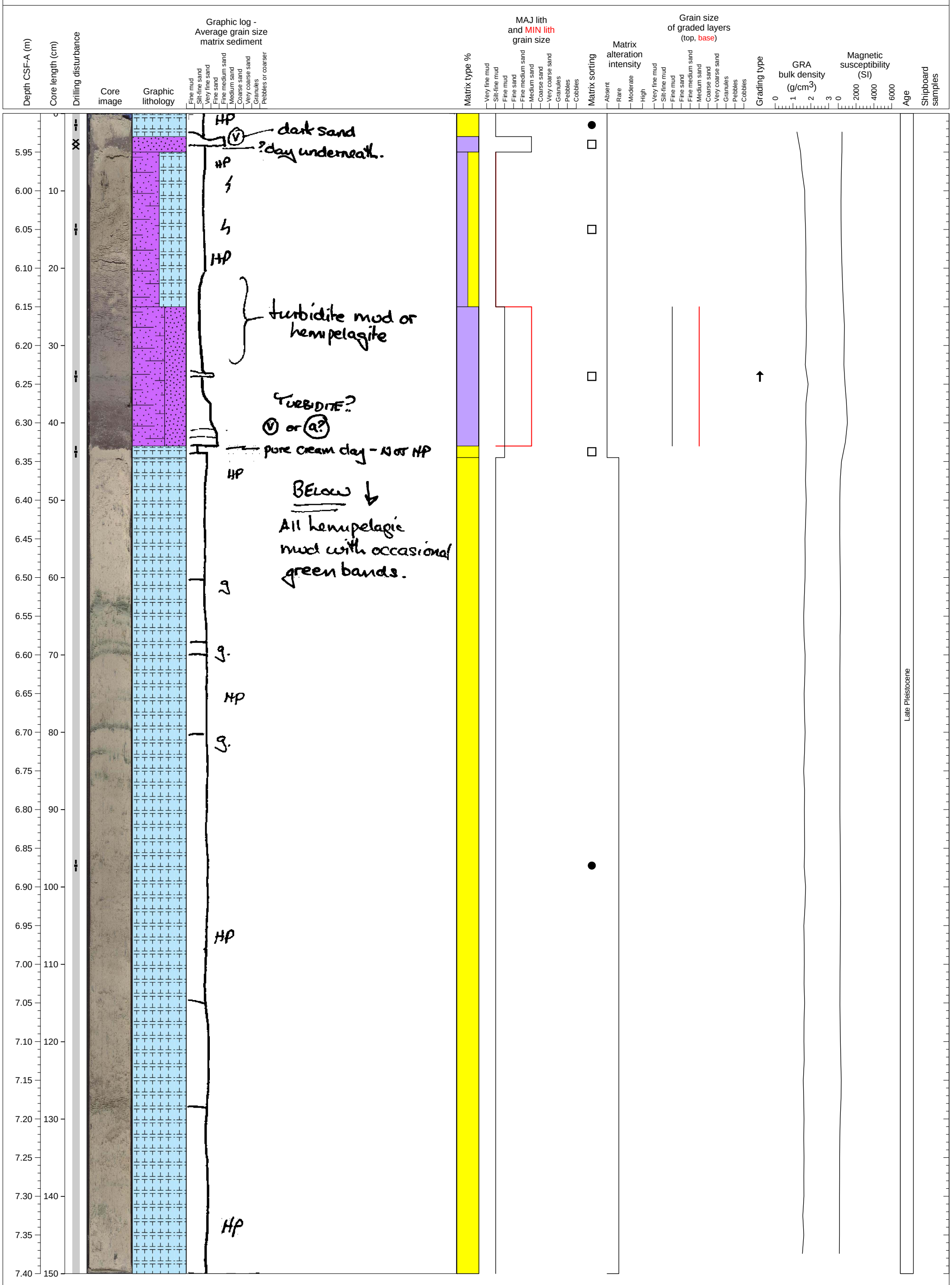


Hole 340-U1395B-1H Section CC, Top of Section: 5.58 CSF-A (m)

Layered volcaniclastic fining upward bed overlyingngg hemipelagic clay. PAL sample from lower section.

Hole 340-U1395B-2H Section 1, Top of Section: 5.9 CSF-A (m)

Hemipelagic clay interlayered with volcaniclastic unit fining upward from medium sand to mud.



Hole 340-U1395B-2H Section 2, Top of Section: 7.4 CSF-A (m)

Massive layer of hemipelagic clay with high bioturation.

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm^3)
Magnetic susceptibility (SI)
Age
Shipboard samples

7.45
7.50
7.55
7.60
7.65
7.70
7.75
7.80
7.85
7.90
7.95
8.00
8.05
8.10
8.15
8.20
8.25
8.30
8.35
8.40
8.45
8.50
8.55
8.60
8.65
8.70
8.75
8.80
8.85
8.90

10
20
30
40
50
60
70
80
90
100
110
120
130
140
150

WHOLE SECTION
mottled grey-green
hemipelagic mud

pod volcanicsand.

Late Pleistocene

Hole 340-U1395B-2H Section 3, Top of Section: 8.9 CSF-A (m)

Interlayered hemipelagic clay and calcereous fine sand. Lower clay unit is composed of finer mud. WR taken from base of section.

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm^3)
0
1
2
3
Magnetic susceptibility (SI)
0
2000
4000
6000
Age
Shipboard samples

8.95
9.00
9.05
9.10
9.15
9.20
9.25
9.30
9.35
9.40
9.45
9.50
9.55
9.60
9.65
9.70
9.75
9.80
9.85
9.90
9.95
10.00
10.05
10.10
10.15
10.20
10.25
10.30
10.35

10
20
30
40
50
60
70
80
90
100
110
120
130
140
150

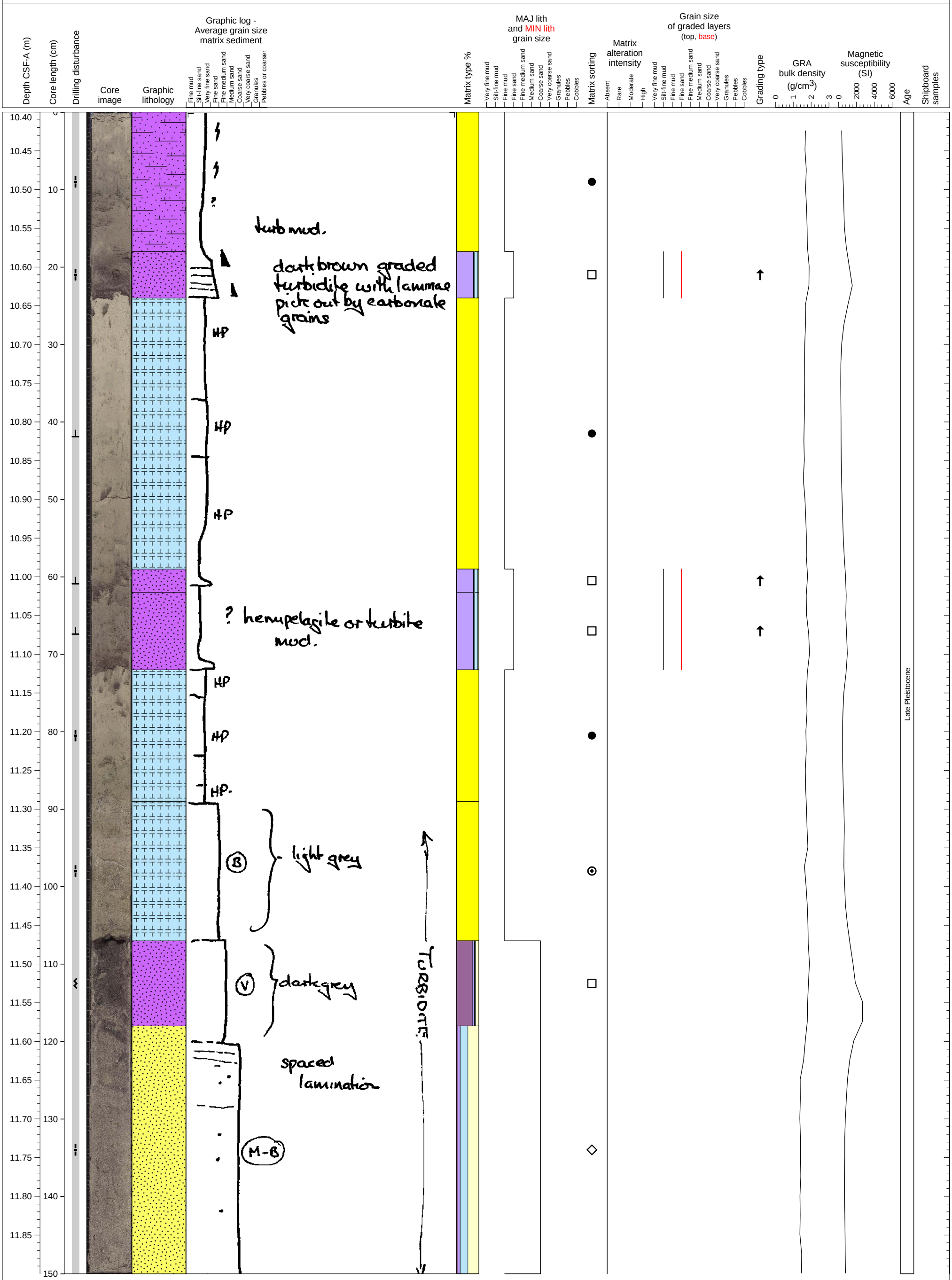
HP
top
HP
HP
HP
? all fine clay turbid
turbidite mud. light grey
B
turbidite.
B
lamination
B'
clay - turbo mud

Late Pleistocene

IW

Hole 340-U1395B-2H Section 4, Top of Section: 10.4 CSF-A (m)

The upper 107 cm is hemipelagic sediments interlayered at least three turbidite, and the lower part consists of the top of a thick turbidite that the major part appear in the next section.



Hole 340-U1395B-2H Section 5, Top of Section: 11.9 CSF-A (m)

volcaniclastic coarse sand (turbidite?)

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm^3)
0
1
2
3
Magnetic susceptibility (SI)
0
2000
4000
6000
Age
Shipboard samples

11.90 – 12.85 mbsf (0 – 95 cm)

dark massive homogeneous volcaniclastic coarse sand
- widely dispersed granules to 4mm - andesitic lava
WHOLE SECTION
- also rare shell fragments <1% some ~5mm and rod grains.

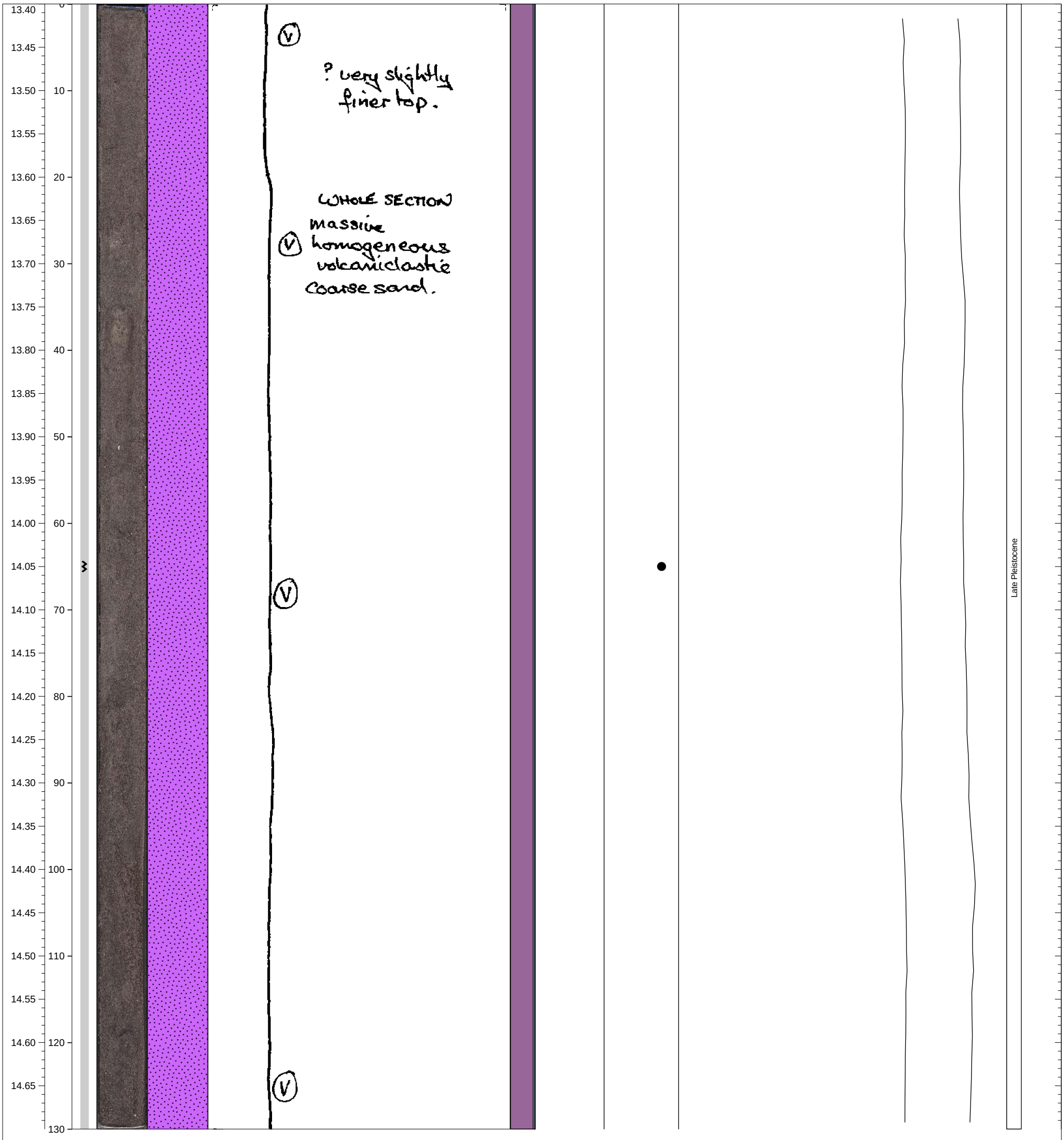
volcaniclastic turbidite

Late Pleistocene

12.85 – 13.35 mbsf (95 – 150 cm)

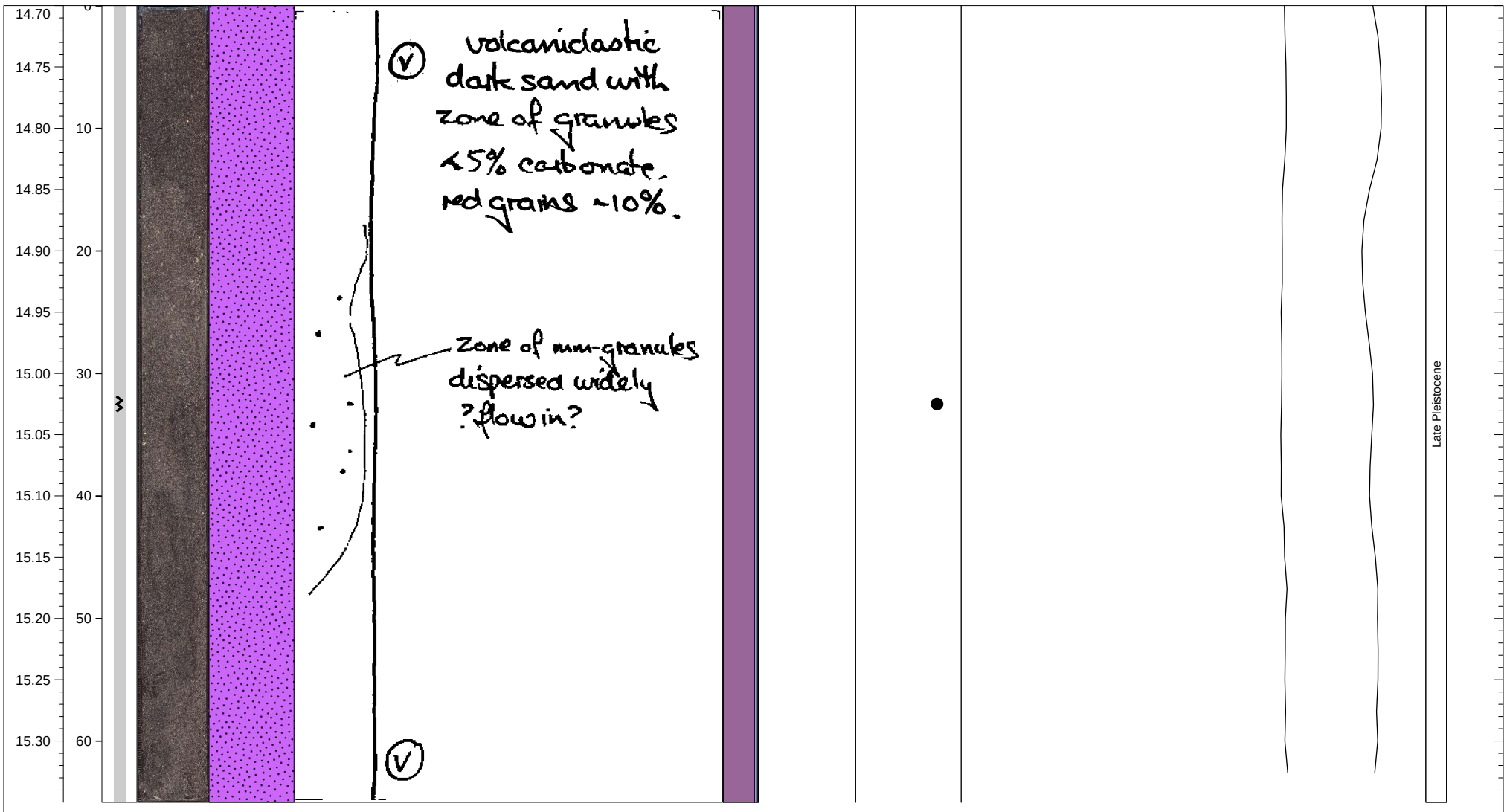
Hole 340-U1395B-2H Section 6, Top of Section: 13.4 CSF-A (m)

volcaniclastic coarse sand (part of turbidite?)



Hole 340-U1395B-2H Section 7, Top of Section: 14.7 CSF-A (m)

volcaniclastic coarse sand (part of turbidite?)

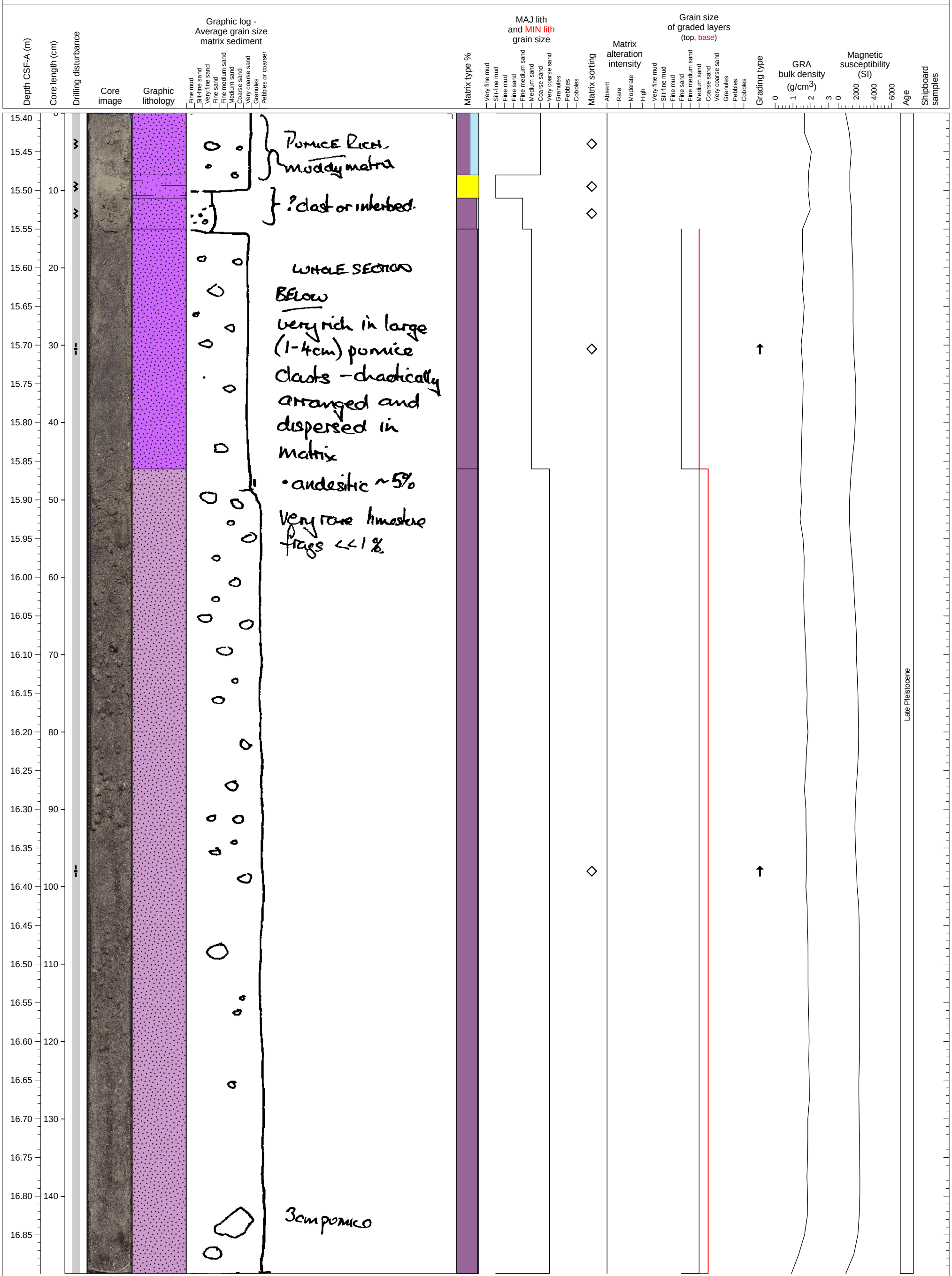


Hole 340-U1395B-2H Section CC, Top of Section: 15.35 CSF-A (m)

dark volcaniclastic sand

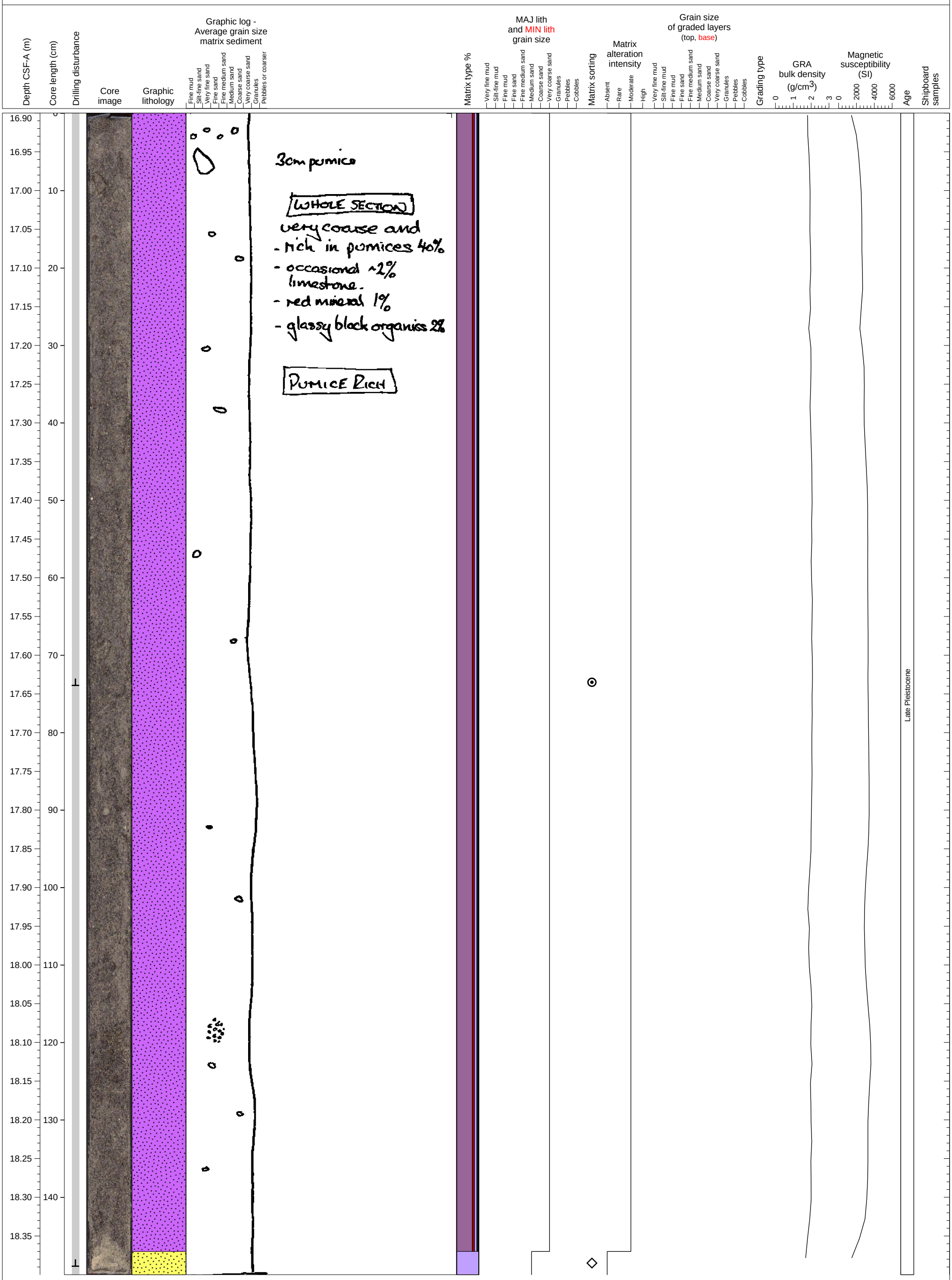
Hole 340-U1395B-3H Section 1, Top of Section: 15.4 CSF-A (m)

From 8cm to the bottom of this section is turbidite, which contains pebble size clast of fresh andesite, pumice and brown andesite, This turbidite continues to the lower section, thus the total thickness is about 3 m. Turbidite consists of mostly volcanic origin materials, but about 5 % of biogenic materials are contained.



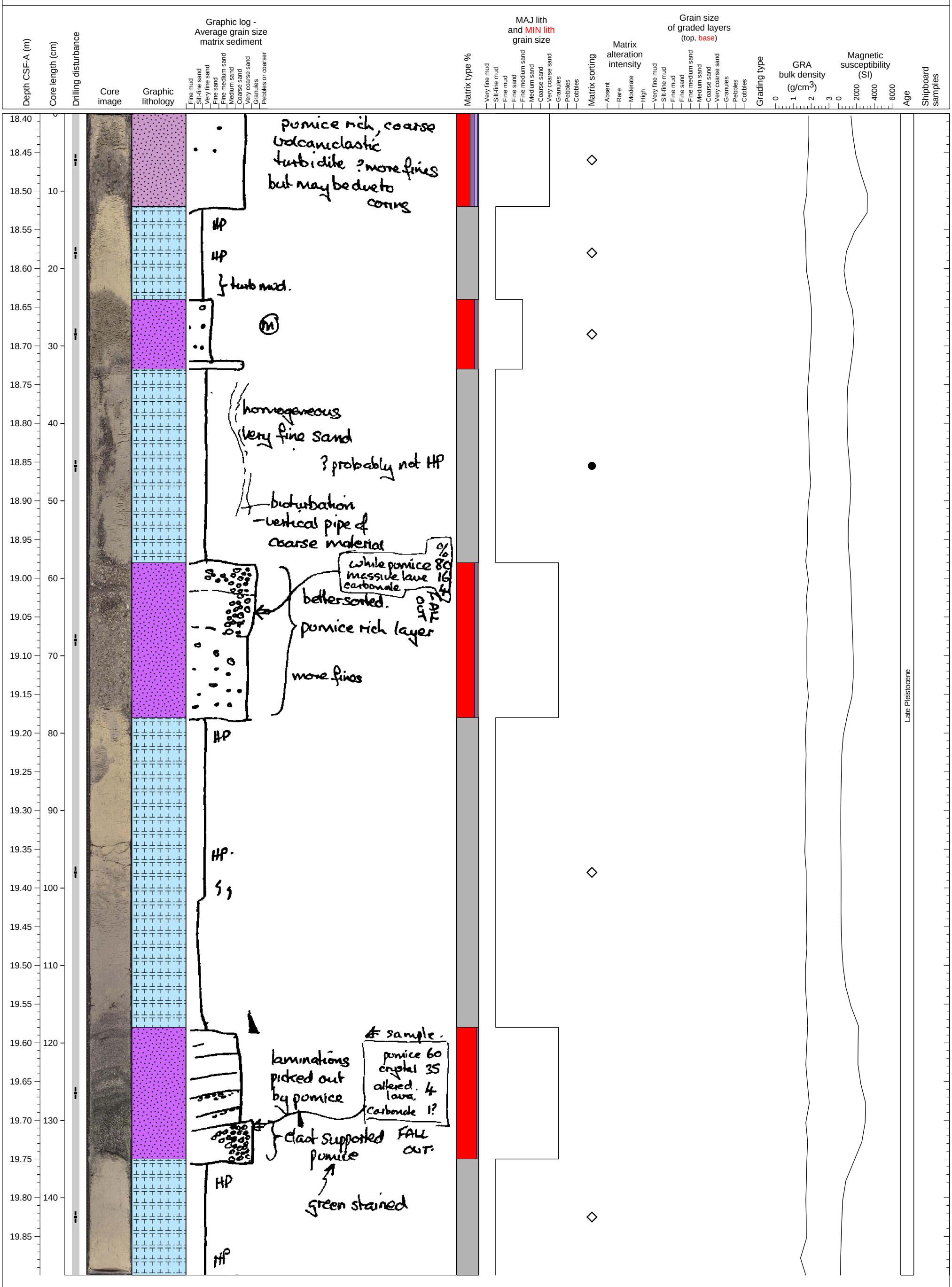
Hole 340-U1395B-3H Section 2, Top of Section: 16.9 CSF-A (m)

Thick very coarse sandy layer consists of various volcaniclastics. At the bottom is a thick volcaniclastic turbidite sequence.



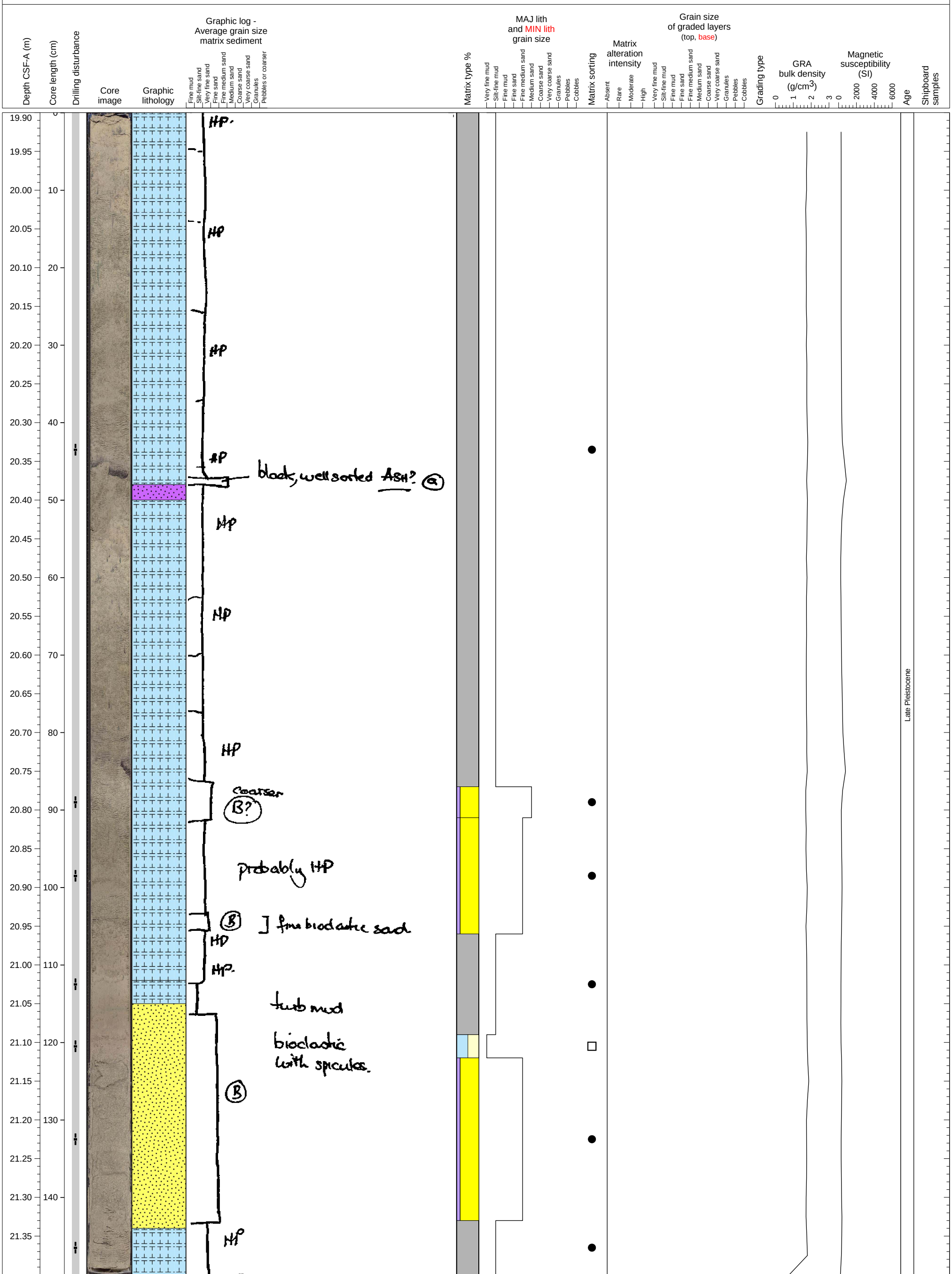
Hole 340-U1395B-3H Section 3, Top of Section: 18.4 CSF-A (m)

two pumice rich (fallout?) units, mixed volcanic-bioclastic turbidite and base of pumice rich unit, together with hemipelagic mud



Hole 340-U1395B-3H Section 4, Top of Section: 19.9 CSF-A (m)

Calcareous sand - hemipelagic ooze sequence showing normal grading. Ash layer at around 120 cm.



Hole 340-U1395B-3H Section 5, Top of Section: 21.4 CSF-A (m)

hemipelagic mud

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm3)
Magnetic susceptibility (SI)
Age
Shipboard samples

WHOLE SECTION
all hemipelagic mud
slightly coarser hemipelagite

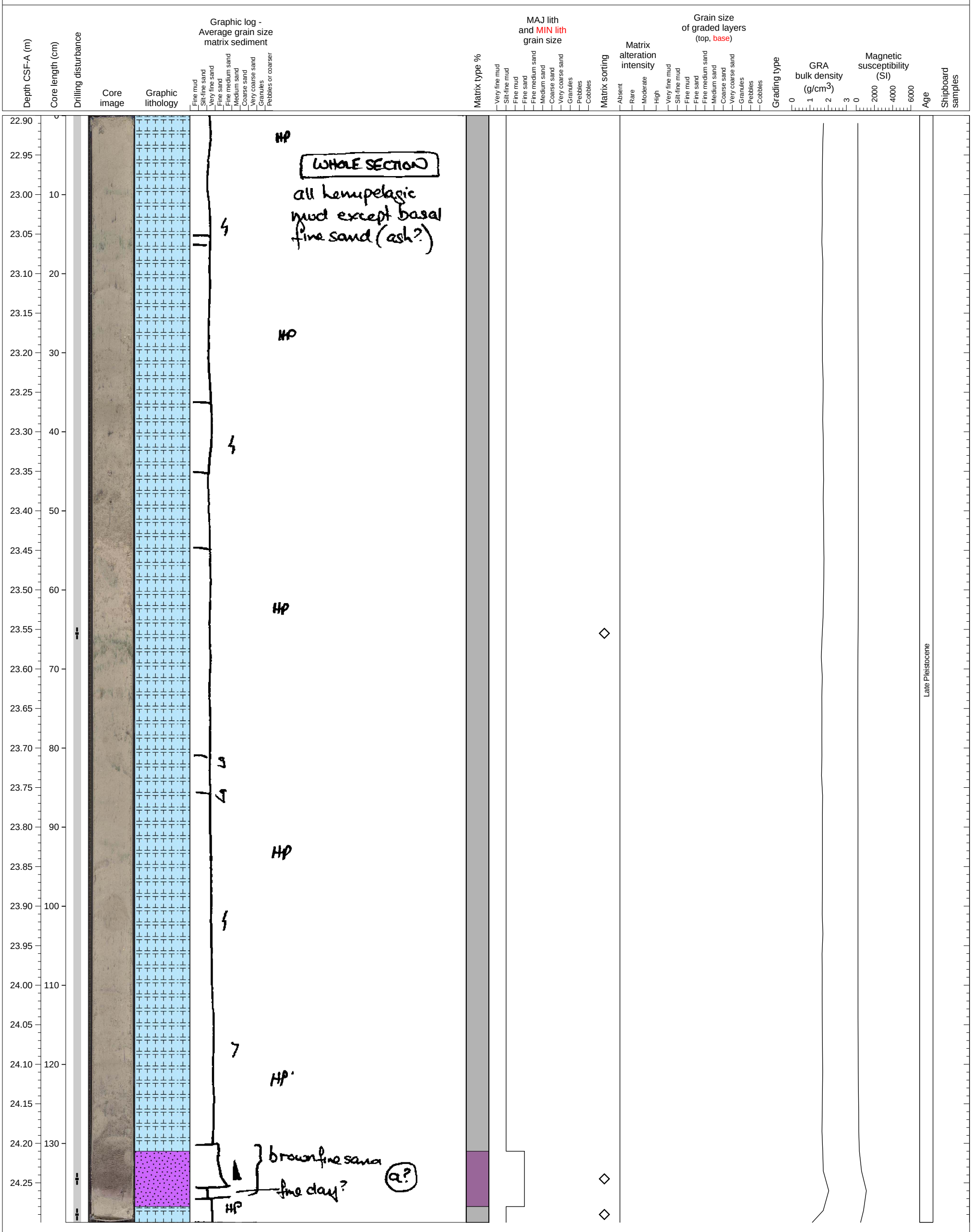
WR samples
WR samples

Late Pleistocene

IW
MBI

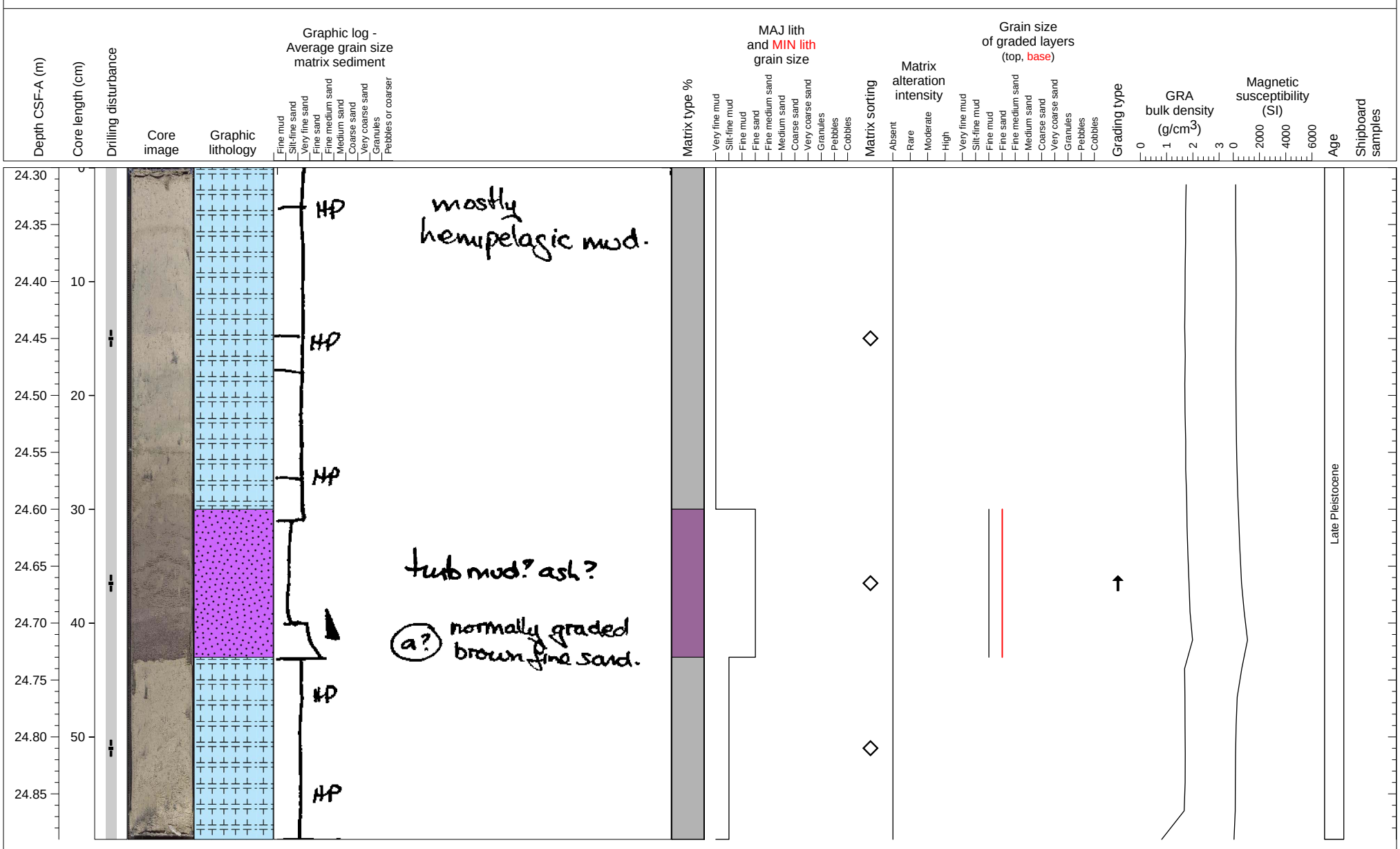
Hole 340-U1395B-3H Section 6, Top of Section: 22.9 CSF-A (m)

hemipelagic mud, with 6cm brown fine sand (ash?) near base, which has thin clay at base



Hole 340-U1395B-3H Section 7, Top of Section: 24.3 CSF-A (m)

hemipelagic mud, with one thin normally graded turbidite or ash layer

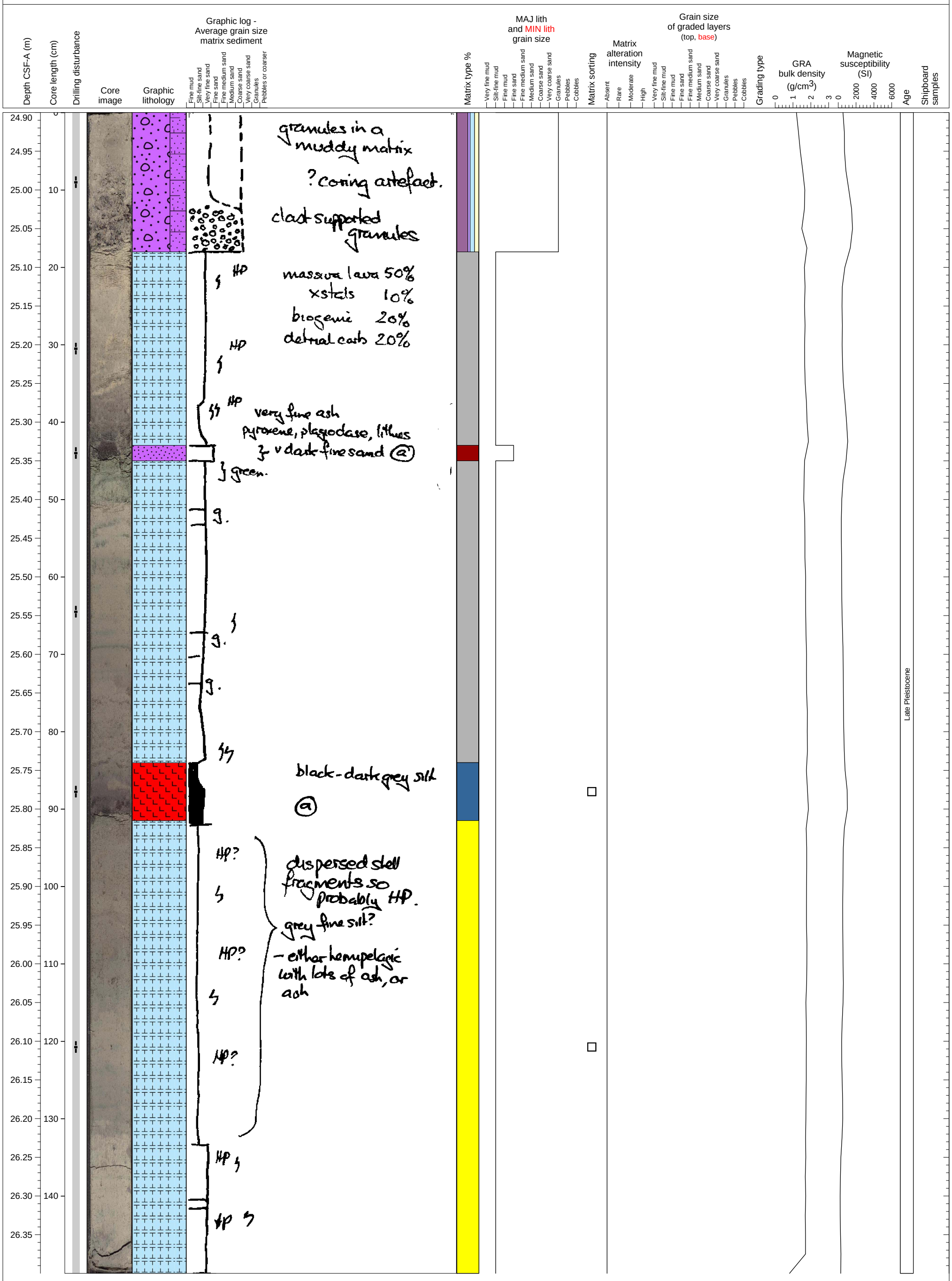


Hole 340-U1395B-3H Section CC, Top of Section: 24.89 CSF-A (m)

hemipelagic mud

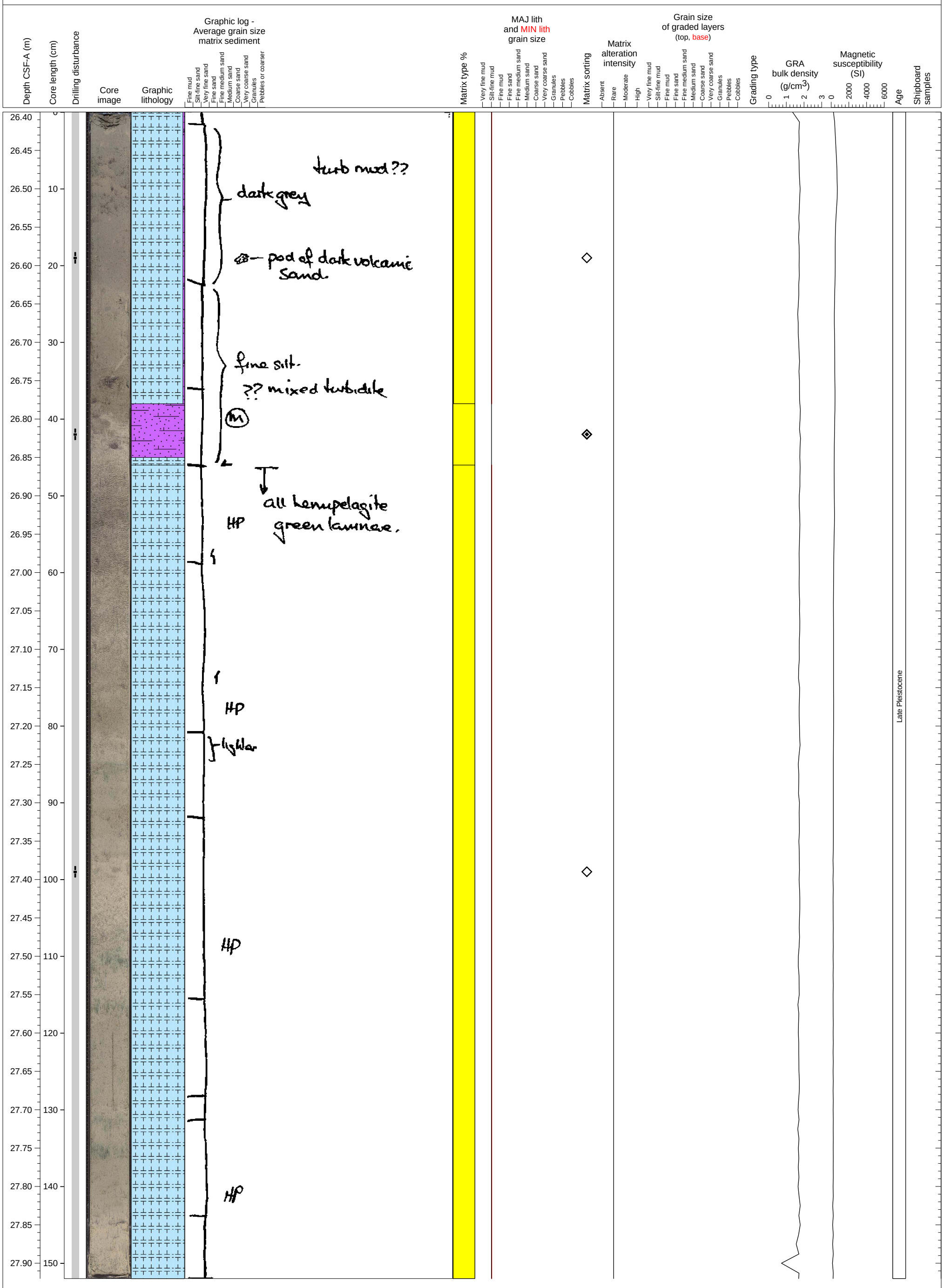
Hole 340-U1395B-4H Section 1, Top of Section: 24.9 CSF-A (m)

granules at top artefact of coring? Hemipelagic mud with one balck fine silt-mud (ash?)



Hole 340-U1395B-4H Section 2, Top of Section: 26.4 CSF-A (m)

Whole section is a thick hemipelagic ooze layer with slight bioturbation and disperse greenish layers.



Hole 340-U1395B-4H Section 3, Top of Section: 27.92 CSF-A (m)

hemipelagic mud

Depth CSF-A (m)

Core length (cm)

Drilling disturbance

Core image

Graphic lithology

Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser

Matrix type %

MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles

Matrix sorting

Matrix alteration intensity
Absent
Rare
Moderate
High

Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles

Grading type

GRA bulk density (g/cm^3)
0
1
2
3

Magnetic susceptibility (SI)
0
2000
4000
6000

Age

Shipboard samples

HP [WHOLE SECTION]
grey-green
hemipelagic mud
banded and some

HP

HP
Volc xstals 25%
Carbonate 75%

HP

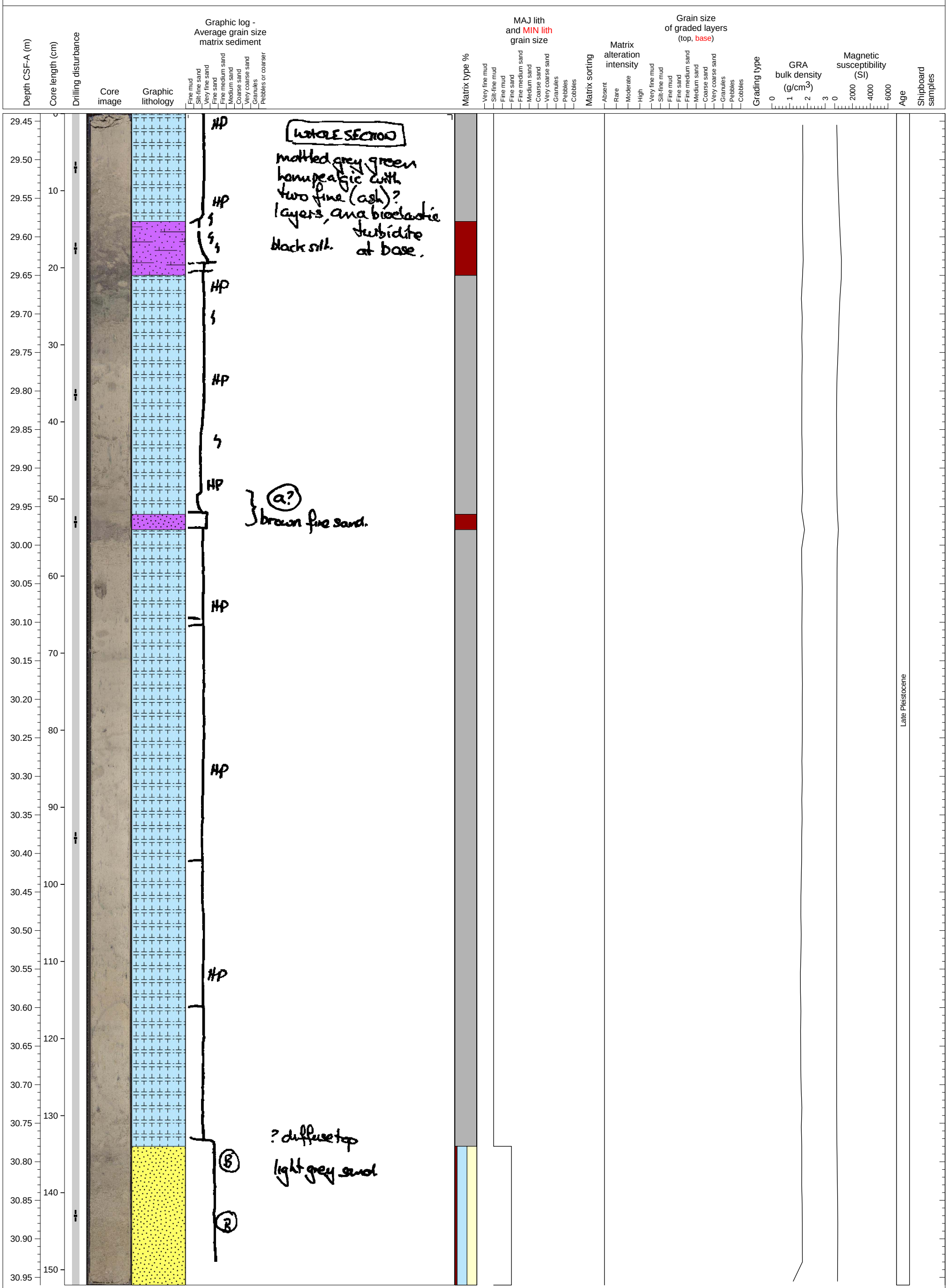
HP

Late Pleistocene

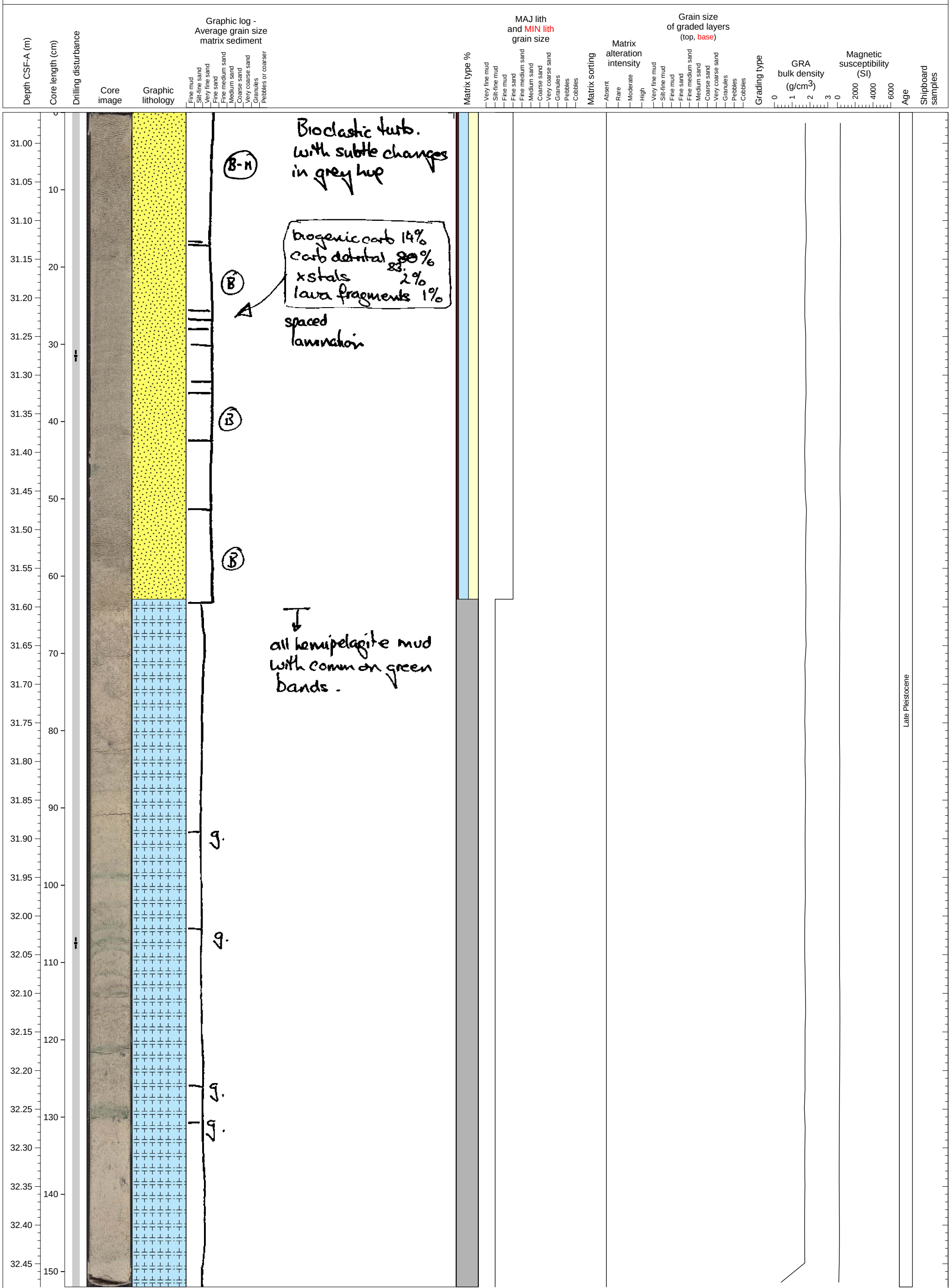
IW

Hole 340-U1395B-4H Section 4, Top of Section: 29.44 CSF-A (m)

hemipelagic mud, black silt at 15-20 cm, brown (ash?) layer at 53 cm, bioclastic rich turbidite sand at base.



upper part a bioclastic turbidite. Lower part hemipelagic mud.



Hole 340-U1395B-4H Section 6, Top of Section: 32.48 CSF-A (m)

hemipelagic mud

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm^3)
Magnetic susceptibility (SI)
Age
Shipboard samples

WHOLE SECTION
all hemipelagic mud with green laminae and dispersed shell frags

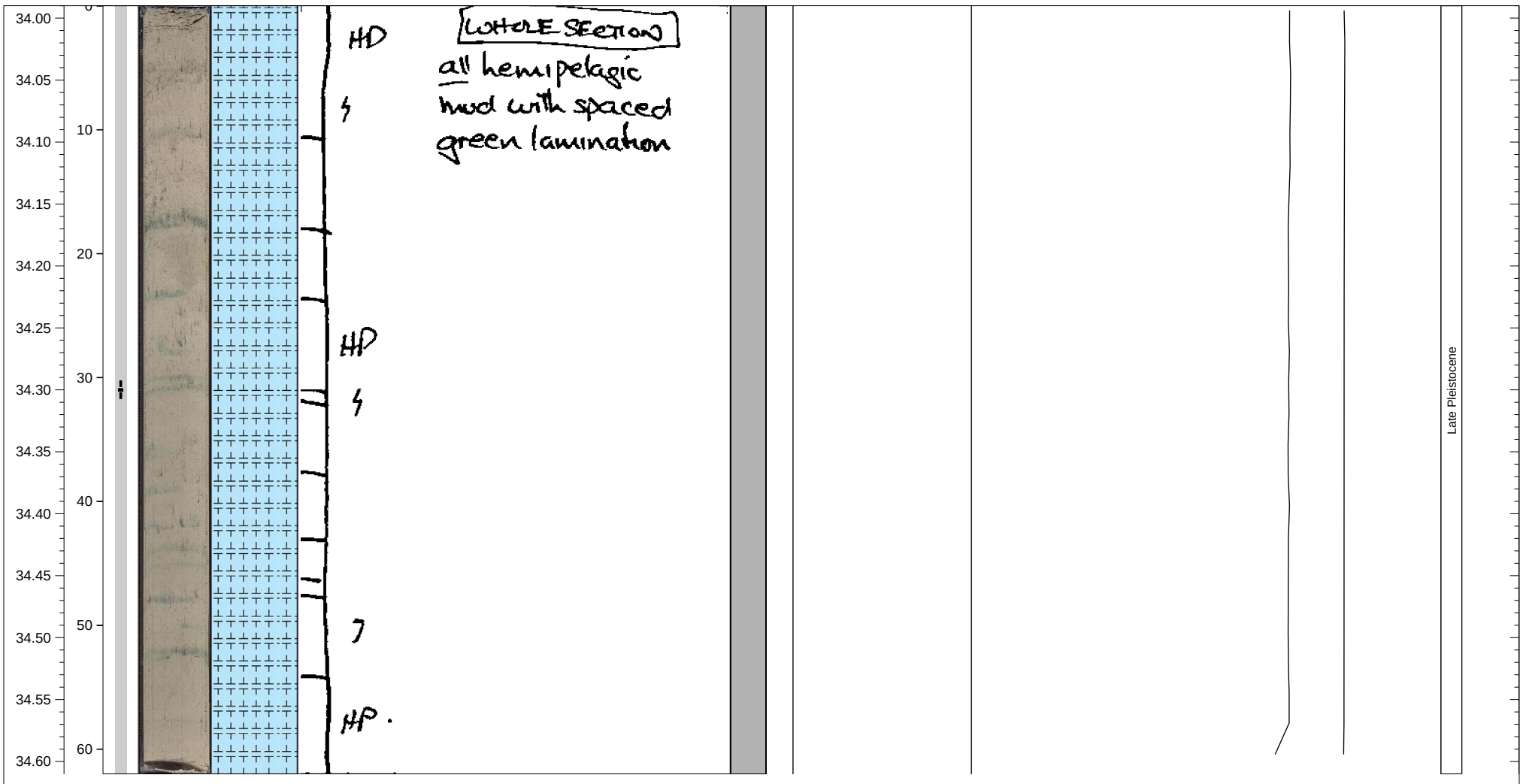
HP
g.
HP
g.
HP
g.
HP
g.
HP
g.

Late Pleistocene

IW

Hole 340-U1395B-4H Section 7, Top of Section: 33.99 CSF-A (m)

hemipelagic mud



Hole 340-U1395B-4H Section CC, Top of Section: 34.61 CSF-A (m)

Two dark clays (ashes?) within hemipelagic mud

Hole 340-U1395B-5H Section 1, Top of Section: 34.4 CSF-A (m)

Hemipelagic mud

Depth CSF-A (m)

Core length (cm)

Drilling disturbance

Core image

Graphic lithology

Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser

Matrix type %

MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles

Matrix sorting

Matrix alteration intensity
Absent
Rare
Moderate
High

Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles

Grading type

GRA bulk density (g/cm^3)
0
1
2
3

Magnetic susceptibility (SI)
0
2000
4000
6000

Age

Shipboard samples

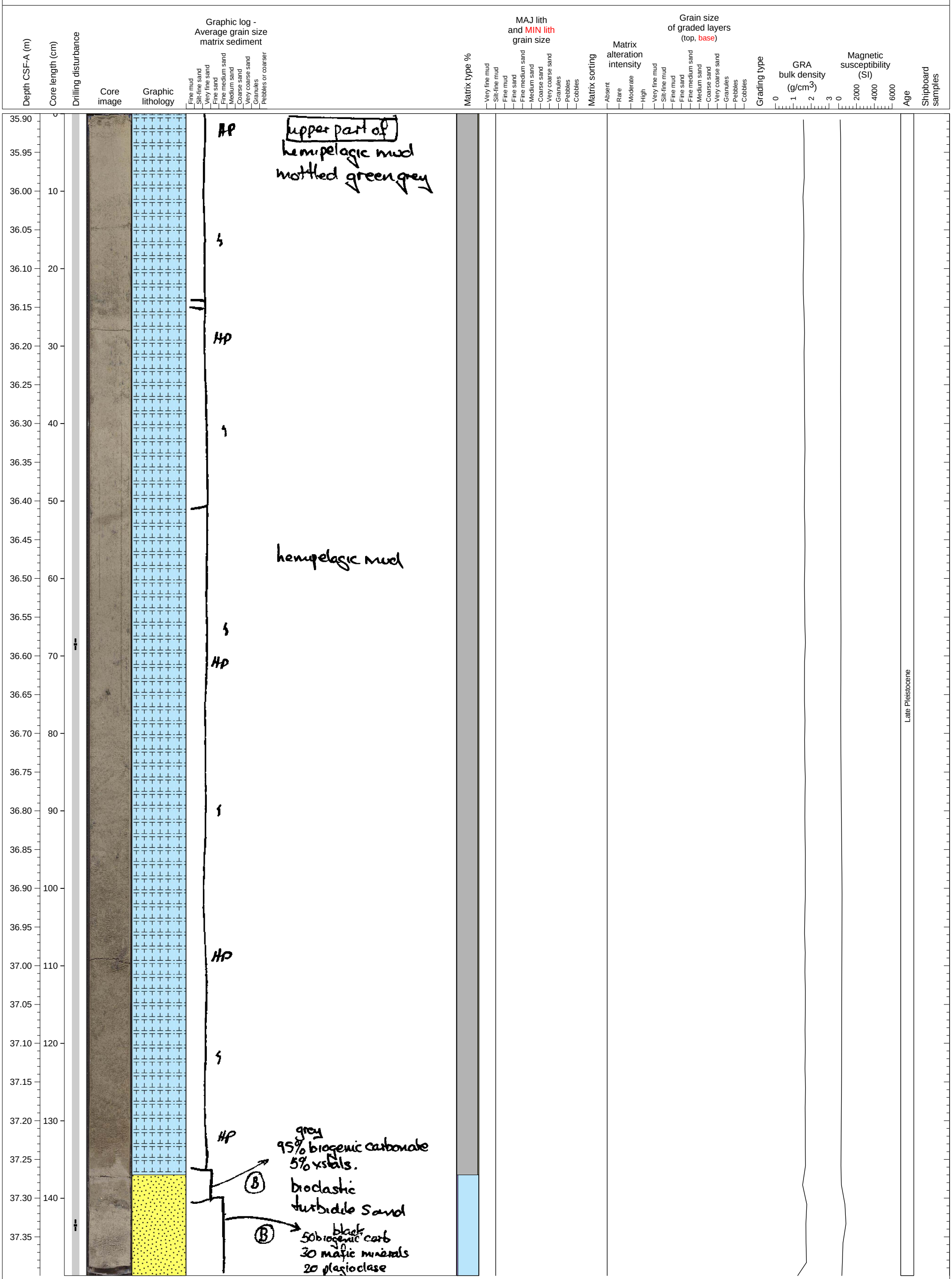
34.40 – 0
34.45
34.50 – 10
34.55
34.60 – 20
34.65
34.70 – 30
34.75
34.80 – 40
34.85
34.90 – 50
34.95
35.00 – 60
35.05
35.10 – 70
35.15
35.20 – 80
35.25
35.30 – 90
35.35
35.40 – 100
35.45
35.50 – 110
35.55
35.60 – 120
35.65
35.70 – 130
35.75
35.80 – 140
35.85

HP
large burrows
HP
WHOLE SECTION
green-grey hemipelagic mud. With large burrows and disseminated black mineral.
HP
HP
3 silkier
HP
HP
HP.

Late Pleistocene

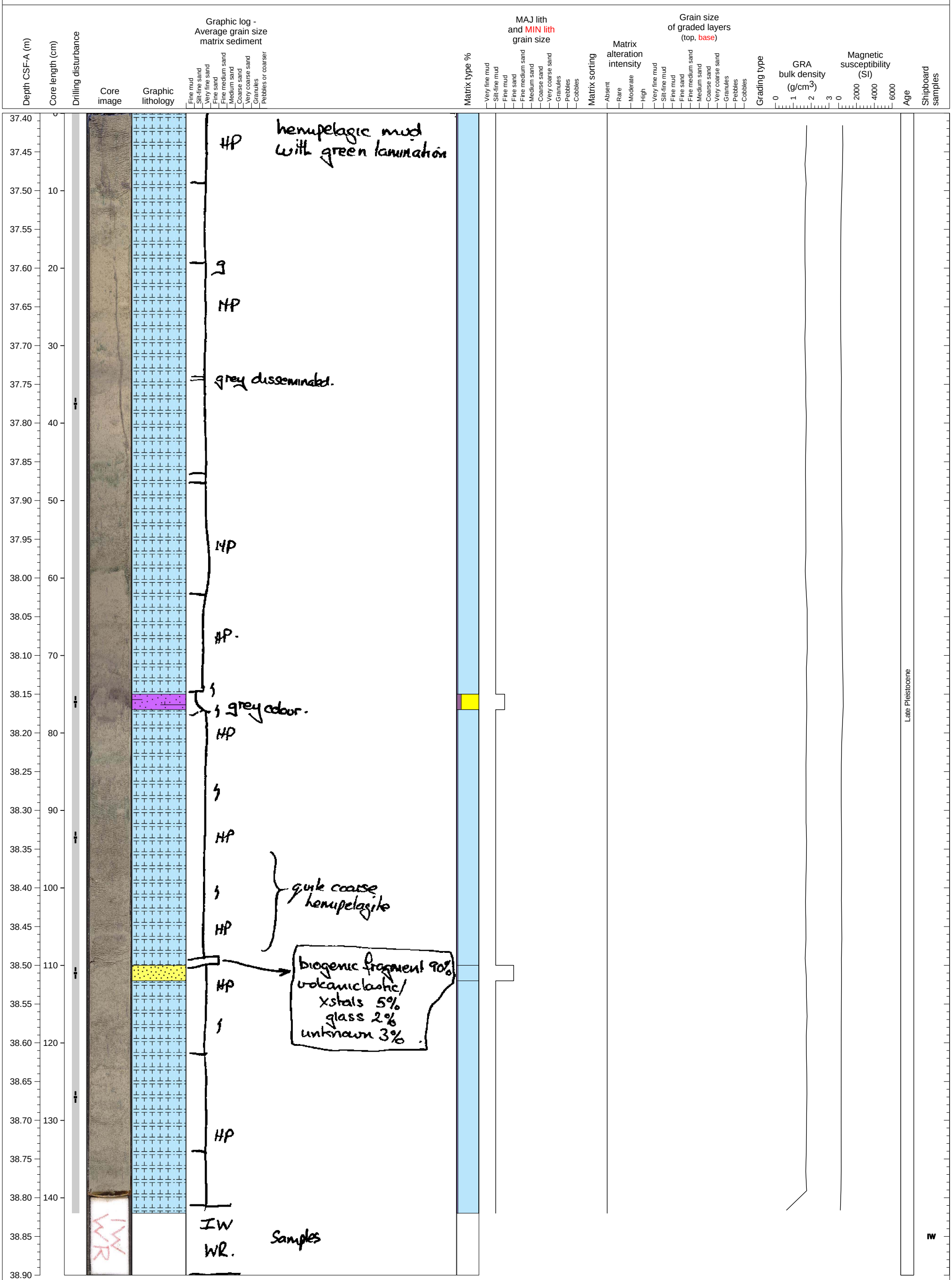
Hole 340-U1395B-5H Section 2, Top of Section: 35.9 CSF-A (m)

Hemipelagic mud, with bioclastic turbidite at very base



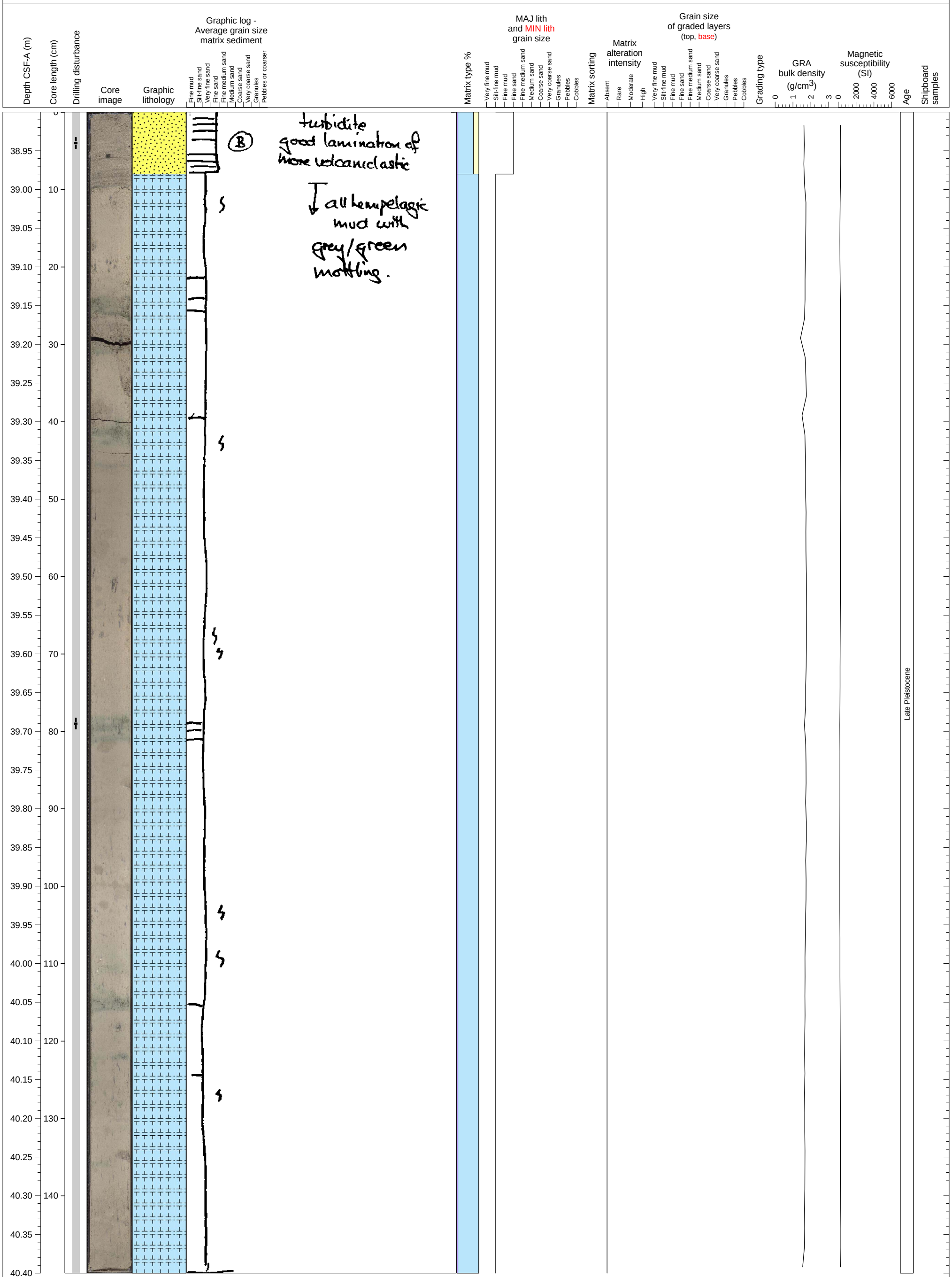
Hole 340-U1395B-5H Section 3, Top of Section: 37.4 CSF-A (m)

Hemipelagic mud with thin bioclastic dominated sand at 110 cm, and grey clay at 77 cm.



Hole 340-U1395B-5H Section 4, Top of Section: 38.9 CSF-A (m)

Hemipelagic mud, with bioclastic turbidite at top



Hole 340-U1395B-5H Section 5, Top of Section: 40.4 CSF-A (m)

Hemipelagic mud with dark clay (ash) at 90 cm, and thin mud turbdidite at 117 cm

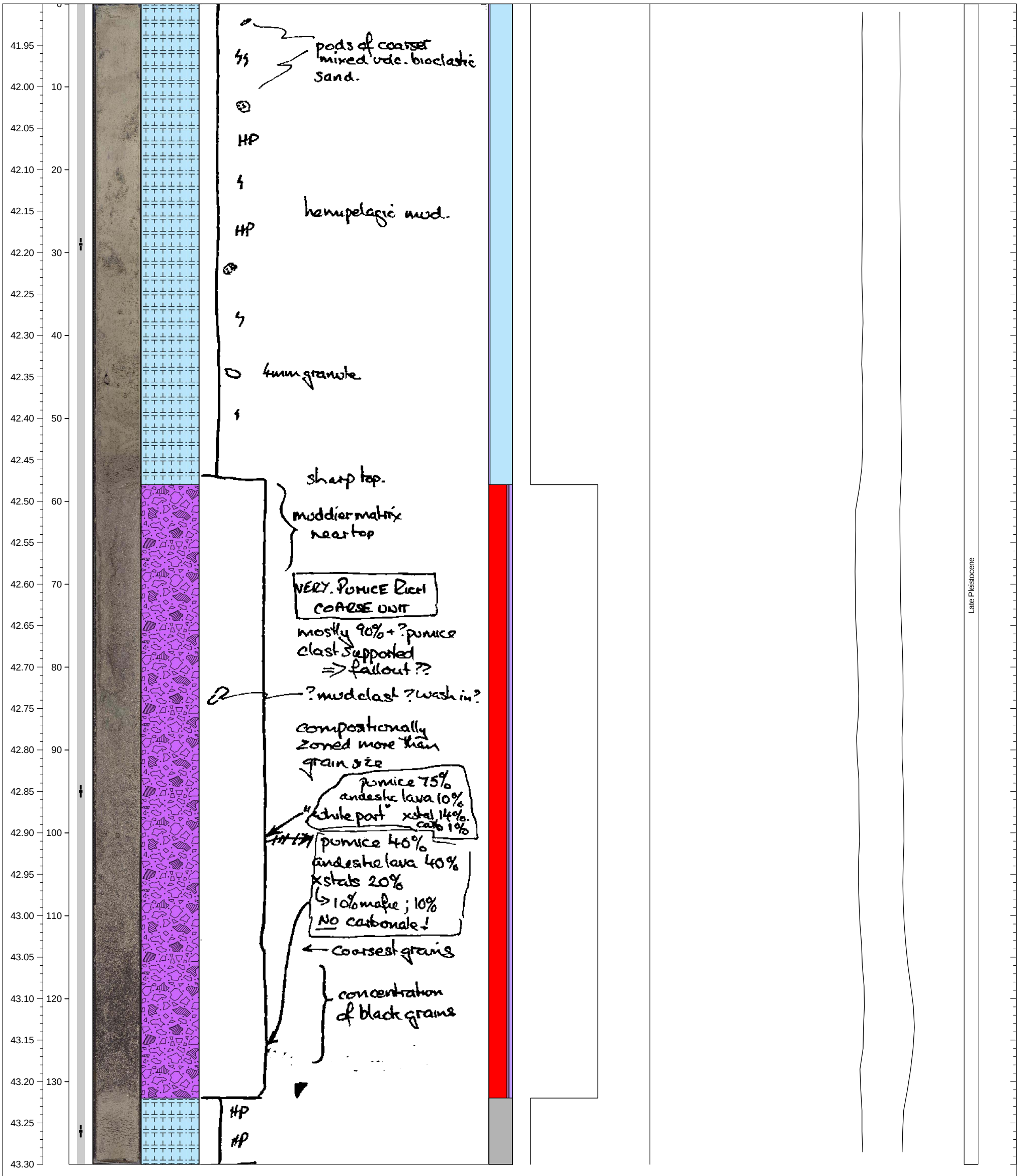
Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm3)
0
1
2
3
Magnetic susceptibility (SI)
0
2000
4000
6000
Age
Shipboard samples

ALL SECTION
hemipelagic mud with grey-green colour mottling
– some large burrows with menisci.
HP
1% mafic minerals.
98% too fine
dental carb 2%
biogenic 1%
brown dark fine silt
(9)
(m)
Late Pleistocene

Hole 340-U1395B-5H Section 6, Top of Section: 41.9 CSF-A (m)

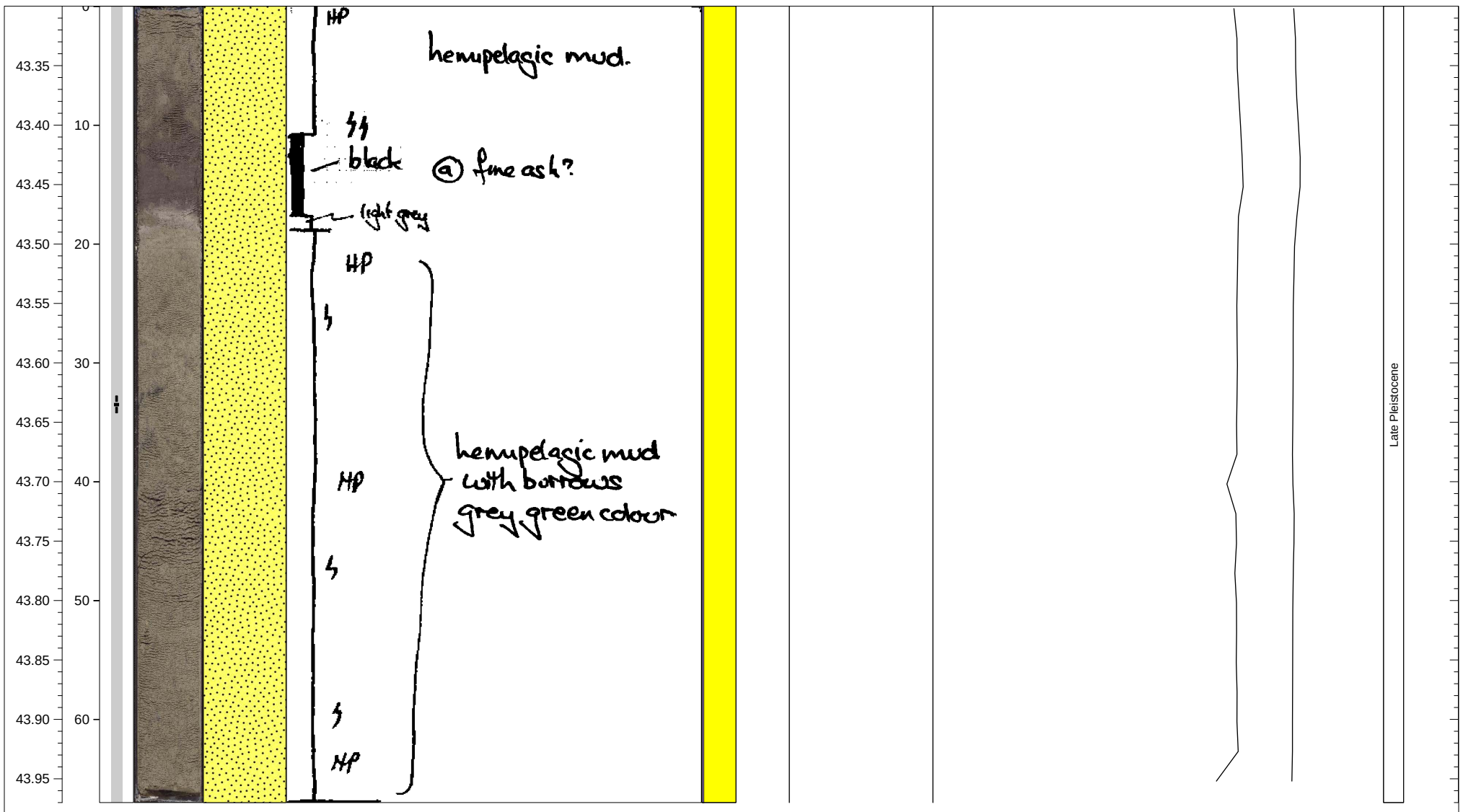
Upper part is hemipelagic mud. Lower part is pumice rich, very coarse unit. Hemipelagic mud at base.

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm^3)
Magnetic susceptibility (SI)
Age
Shipboard samples



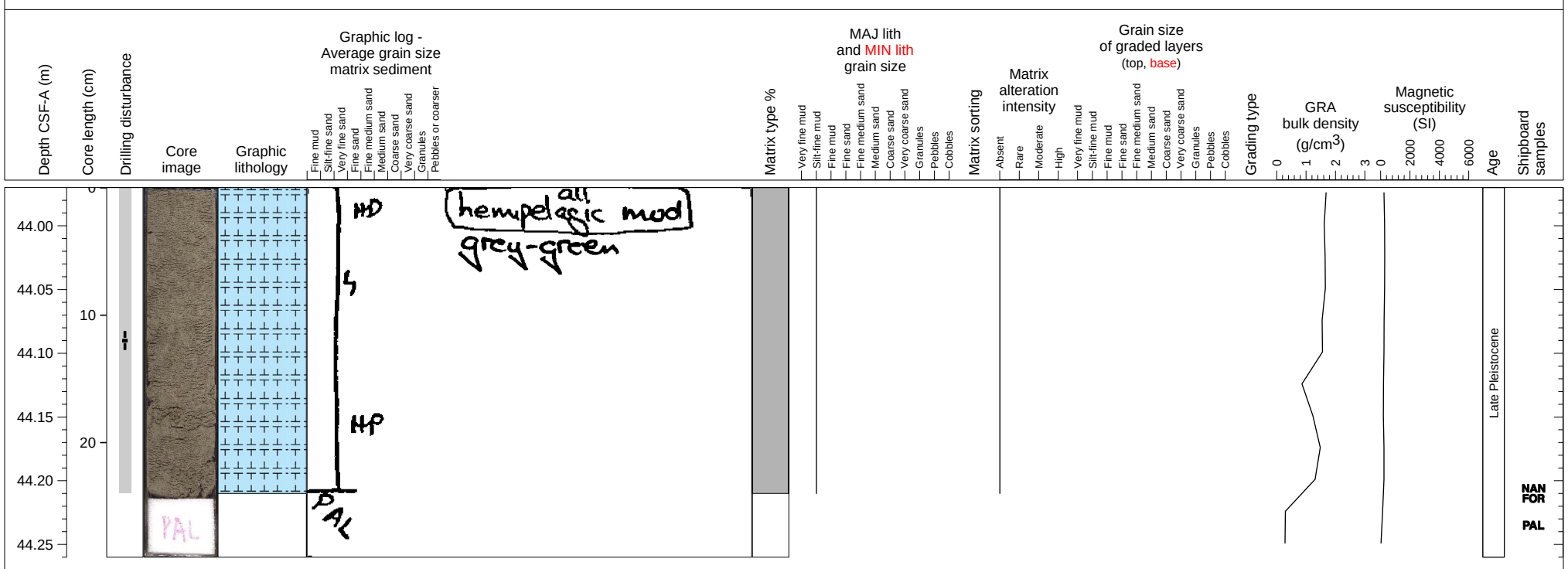
Hole 340-U1395B-5H Section 7, Top of Section: 43.3 CSF-A (m)

sandy hemipelagic sediment



Hole 340-U1395B-5H Section CC, Top of Section: 43.97 CSF-A (m)

Hemipelagic mud.



Hole 340-U1395B-6H Section 1, Top of Section: 43.9 CSF-A (m)

Hemipelagic mud, with bioclastic turbidites at 62 to 82 cm, and 111 cm to base

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm^3)
0
1
2
3
Magnetic susceptibility (SI)
0
2000
4000
6000
Age
Shipboard samples

43.95
44.00
44.05
44.10
44.15
44.20
44.25
44.30
44.35
44.40
44.45
44.50
44.55
44.60
44.65
44.70
44.75
44.80
44.85
44.90
44.95
45.00
45.05
45.10
45.15
45.20
45.25
45.30
45.35
45.40

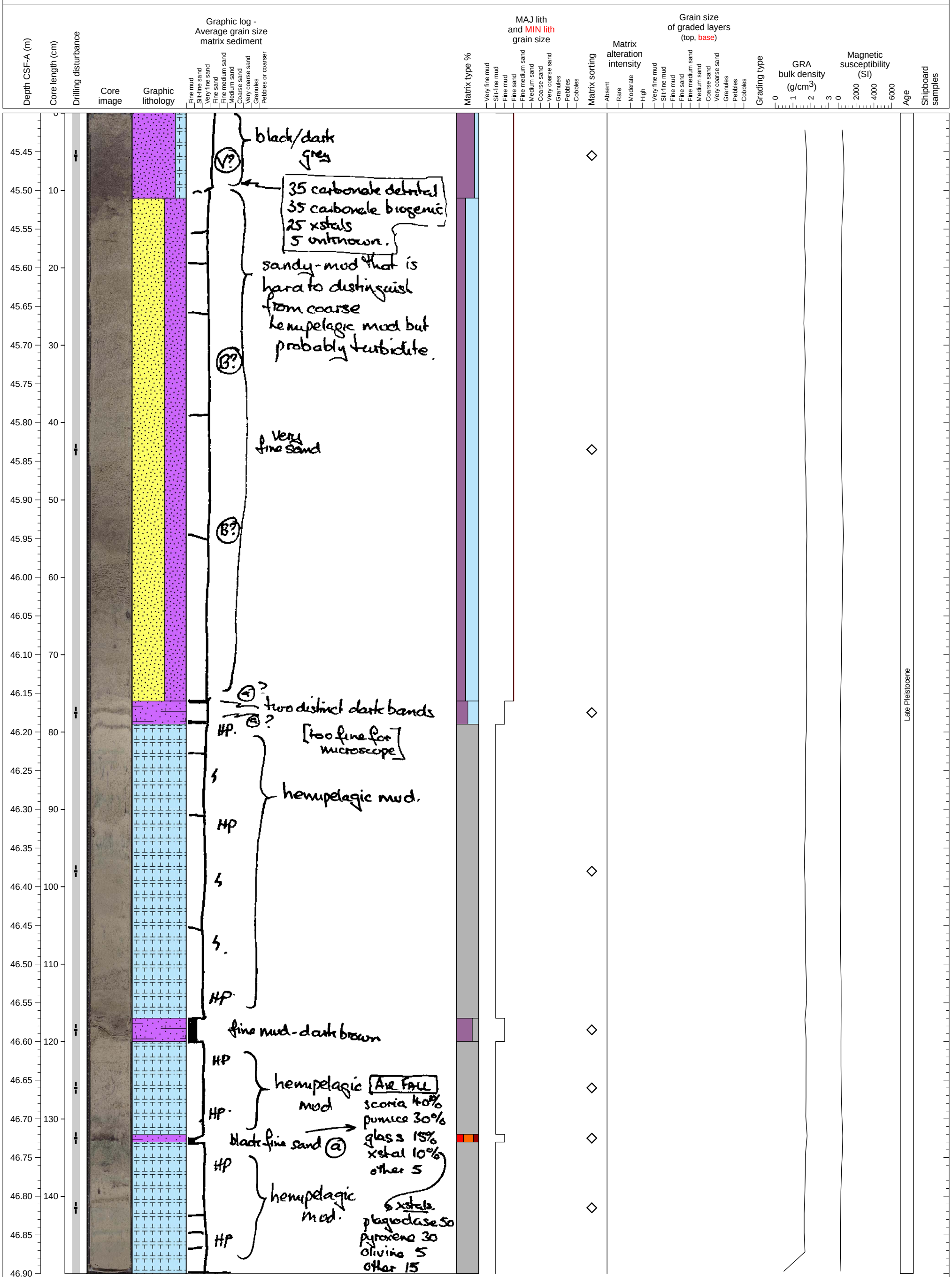
10
20
30
40
50
60
70
80
90
100
110
120
130
140

hemipelagic mud
burrows with black vdc. sand.
hemipelagic mud
6 1cm shell fragment.
hemipelagic mud
bioclastic turbidite
HP
orbiliths (fish earbone)
HP
HP
1cm
6
1cm-large shell.
M
biogenic 70% crystals 20% glass 10%
darker-grey
M-U
turbidite sand.
50 biogenic
black layer → 30 xtals
20 glass.
90% biogenic, 10% crystal
M
homogeneous
Medium grey sand

Late Pleistocene

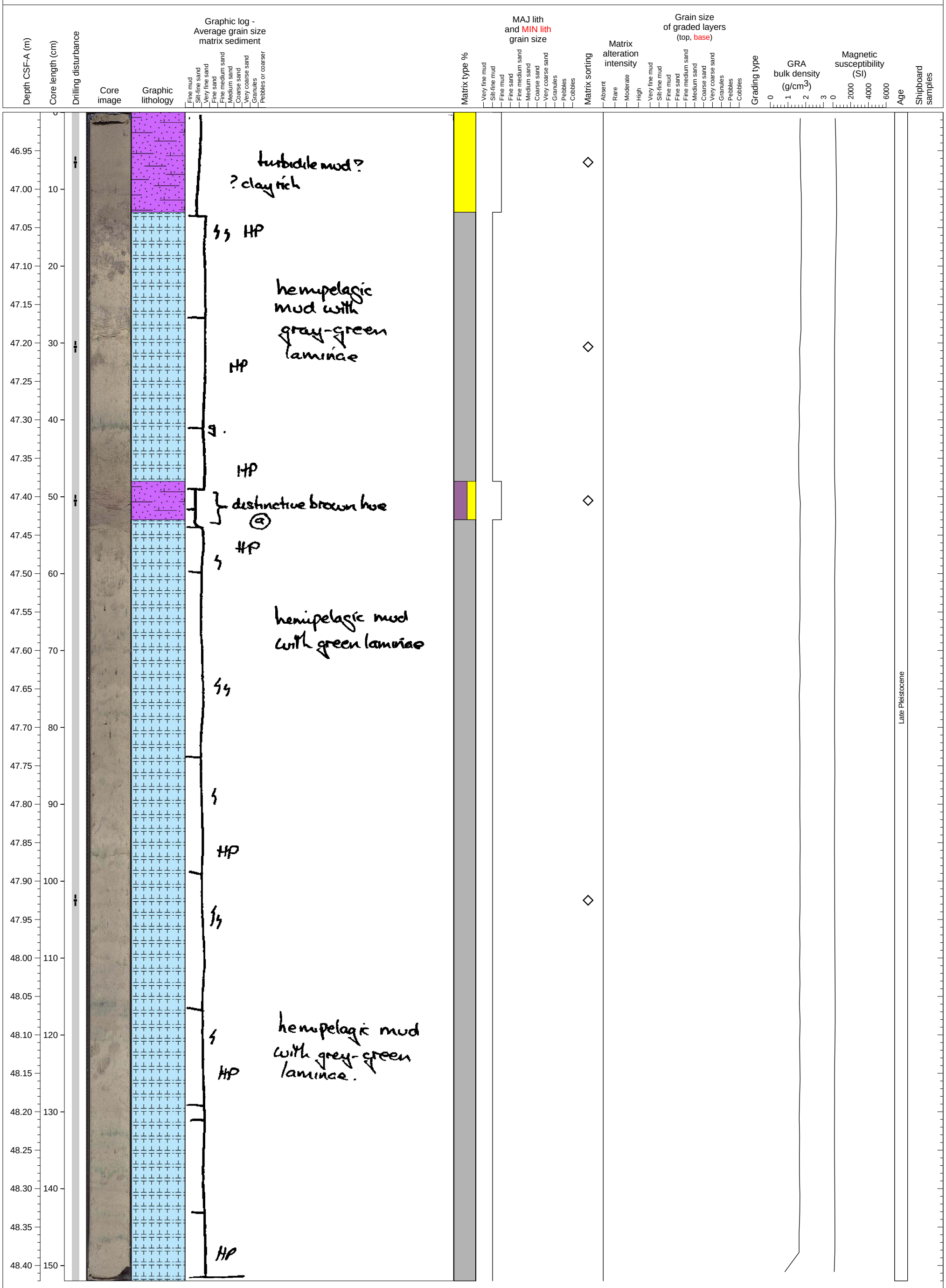
Hole 340-U1395B-6H Section 2, Top of Section: 45.4 CSF-A (m)

Mixed bioclastic-volcaniclastic sand in upper part. Coarse hemipelagic mud, with two black fine sands (ashes) in basal part.



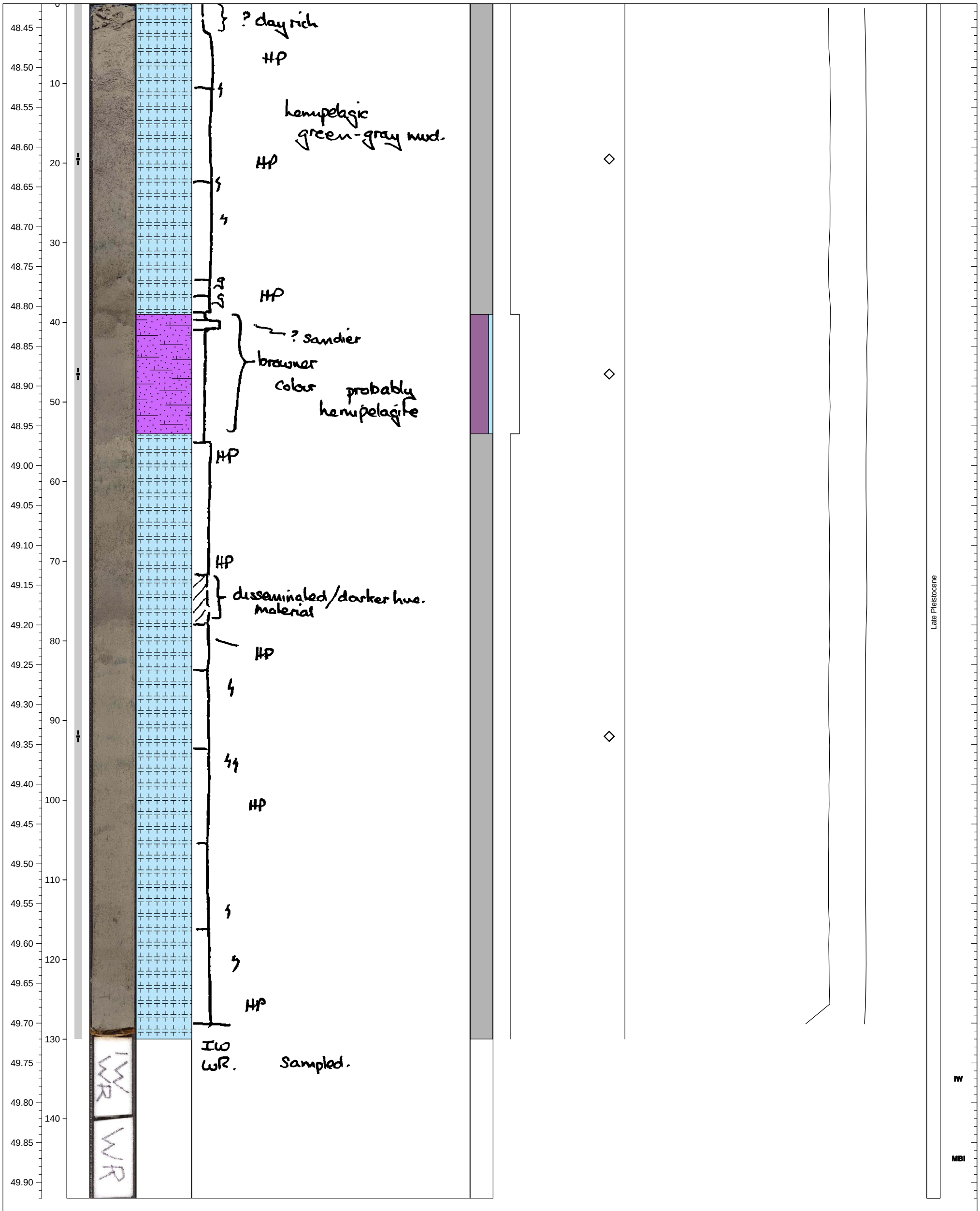
Hole 340-U1395B-6H Section 3, Top of Section: 46.9 CSF-A (m)

Hermipelagic mud with turbidite clay at top. Bown clay (ash?) at 49 to 53 cm.



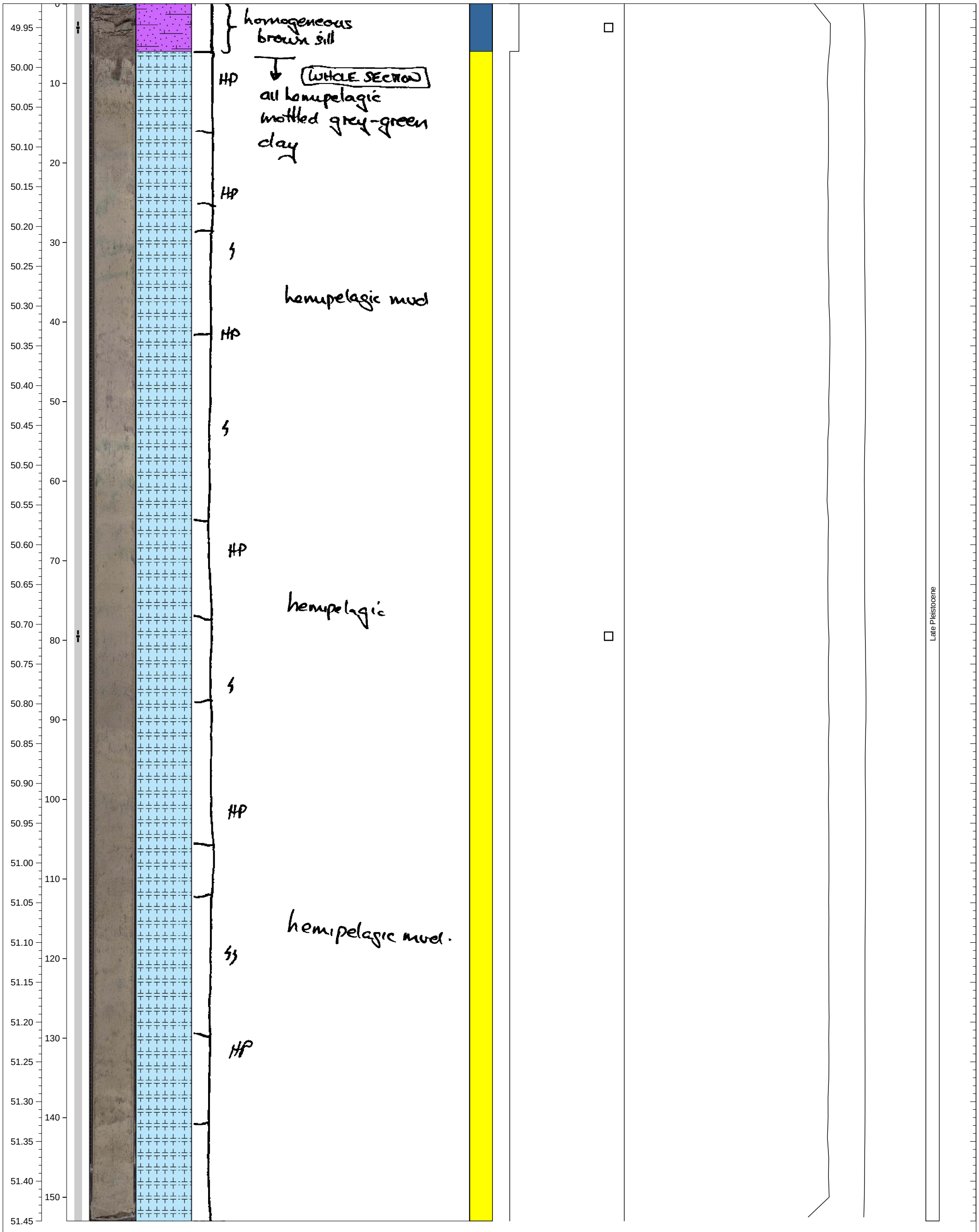
Hole 340-U1395B-6H Section 4, Top of Section: 48.42 CSF-A (m)

Hemipelagic mud.



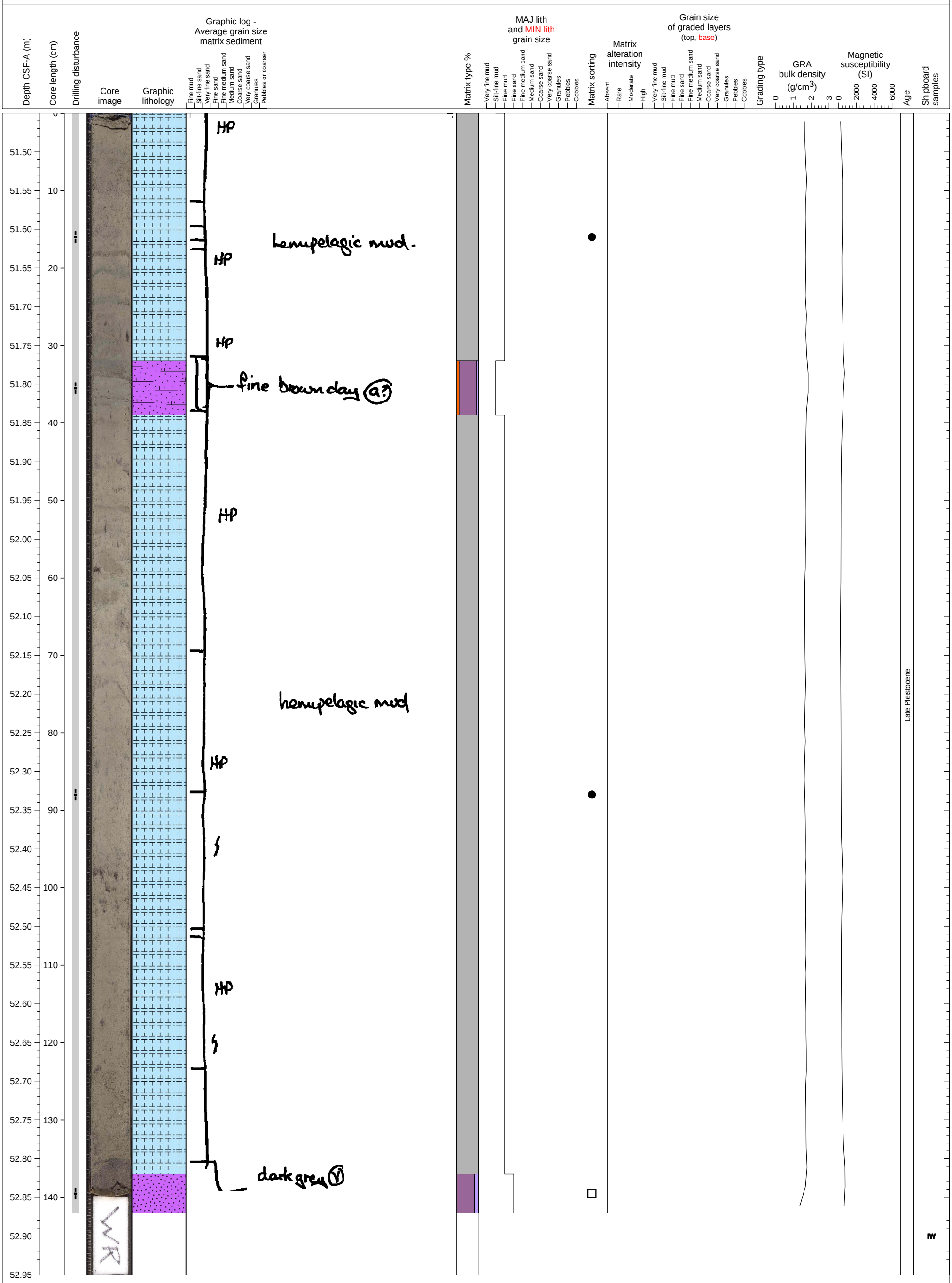
Hole 340-U1395B-6H Section 5, Top of Section: 49.92 CSF-A (m)

Hemipelagic mud, with fine brown clay (ash?) at top



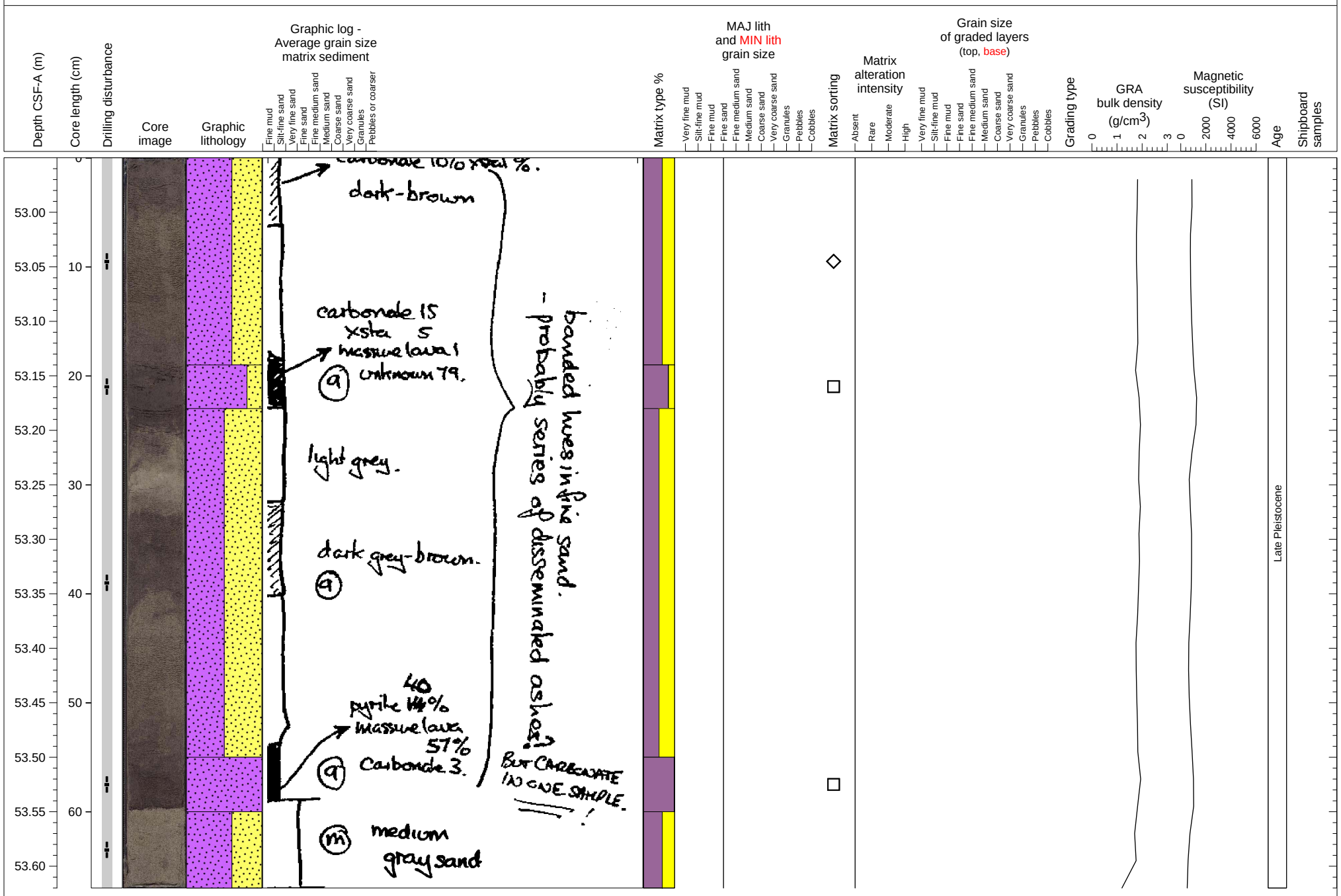
Hole 340-U1395B-6H Section 6, Top of Section: 51.45 CSF-A (m)

Hemipelagic mud, with fine brown clay (ash?) at 35cm.



Hole 340-U1395B-6H Section 7, Top of Section: 52.95 CSF-A (m)

Sequence of black and dark grey to medium grey fine sand and clay

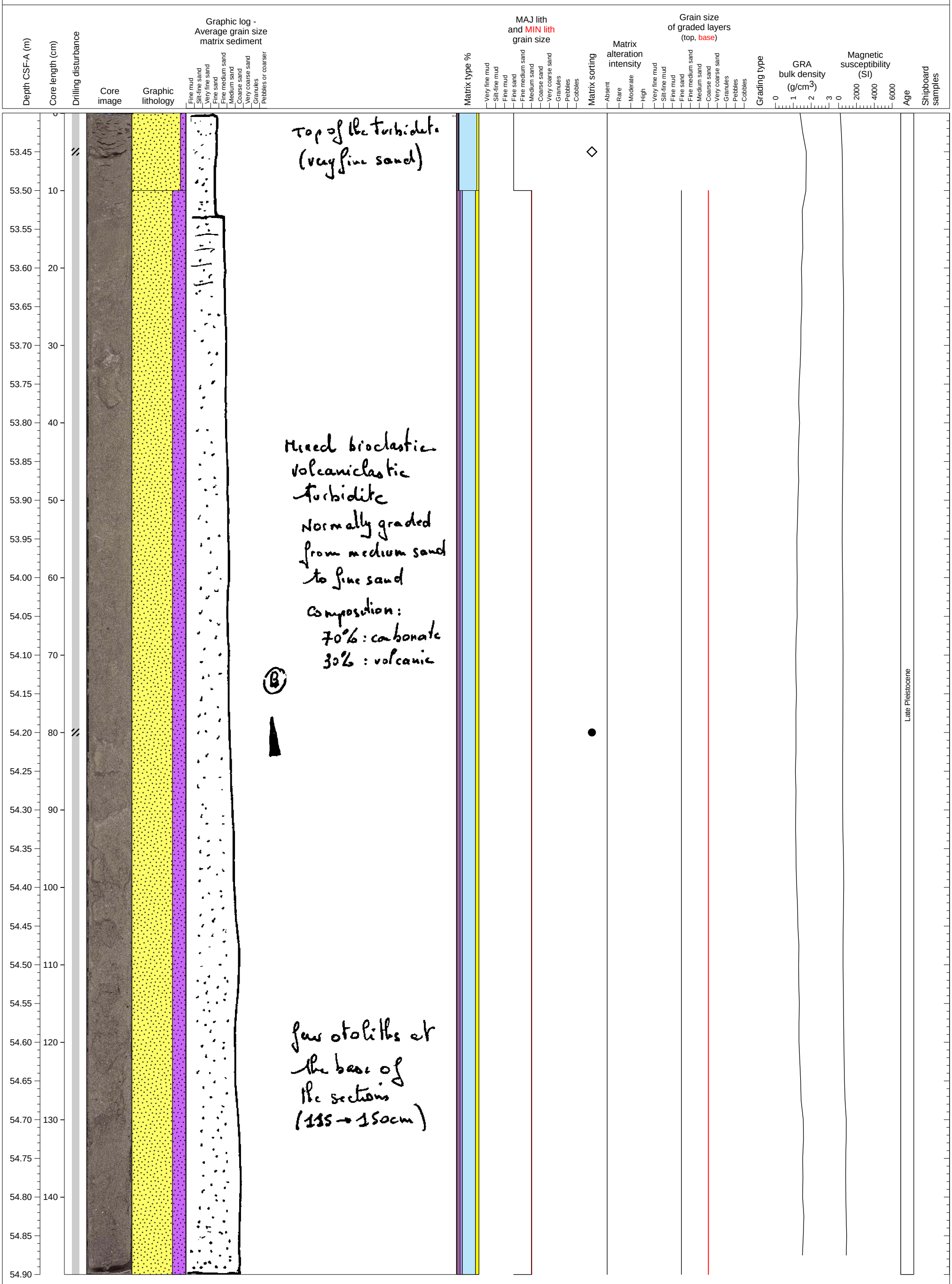


Hole 340-U1395B-6H Section CC, Top of Section: 53.62 CSF-A (m)

Volcaniclastic mud. PAL sample from base of section.

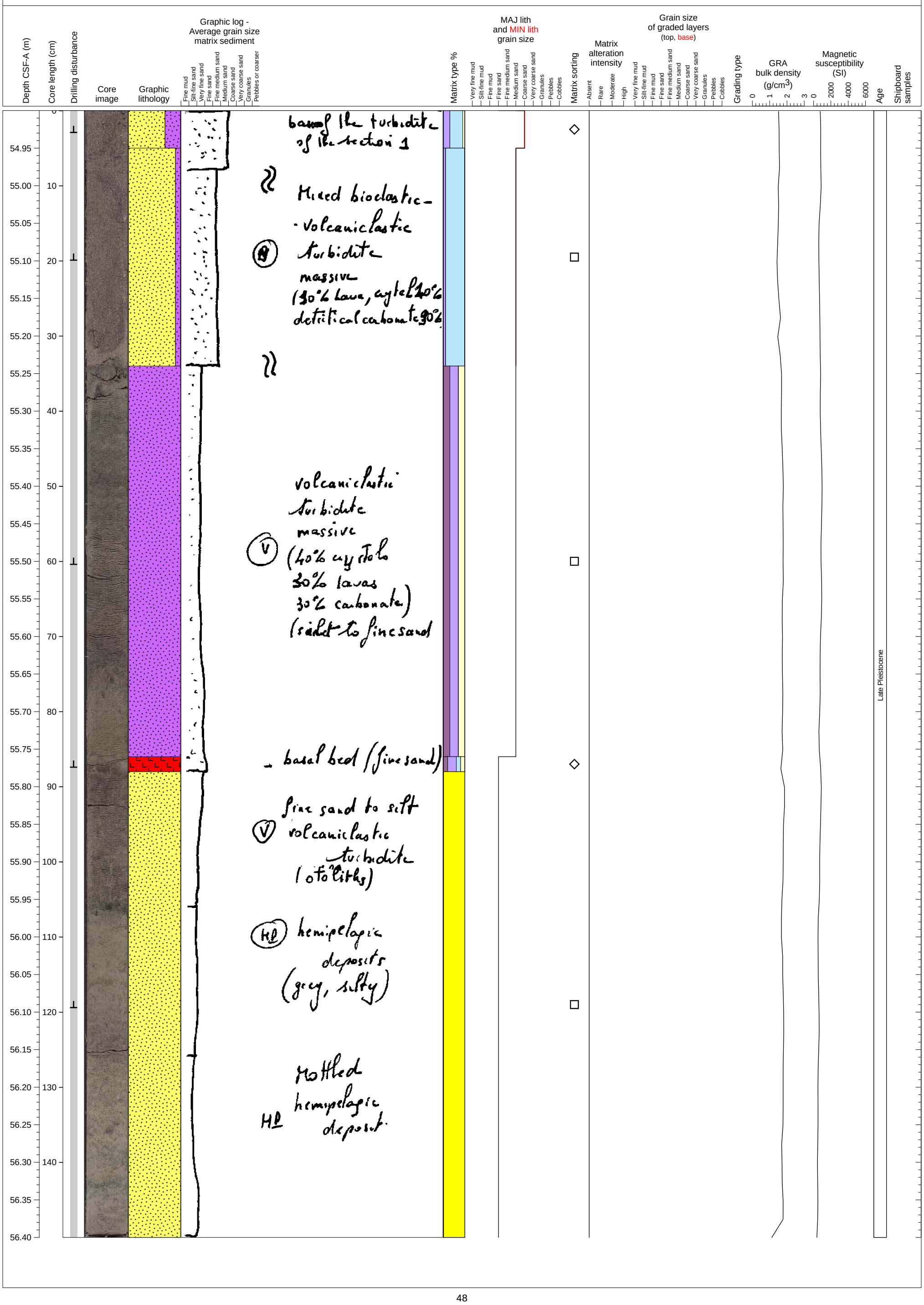
Hole 340-U1395B-7H Section 1, Top of Section: 53.4 CSF-A (m)

Normally graded mixture of bioclastic and volcaniclastic turbidite



Hole 340-U1395B-7H Section 2, Top of Section: 54.9 CSF-A (m)

Mixed bioclastic-volcaniclastic turbidite. Hemipelagite beneath.



Hole 340-U1395B-7H Section 3, Top of Section: 56.4 CSF-A (m)

Alternation of hemipelagic sediments and mixture of bioclastic and volcaniclastic sediments with thin tephra layer

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm^3)
0
1
2
3
Magnetic susceptibility (SI)
0
2000
4000
6000
Age
Shipboard samples

56.45
56.50
56.55
56.60
56.65
56.70
56.75
56.80
56.85
56.90
56.95
57.00
57.05
57.10
57.15
57.20
57.25
57.30
57.35
57.40
57.45
57.50
57.55
57.60
57.65
57.70
57.75
57.80
57.85
57.90
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150

Bioclastic sand

Hemipelagic deposit, grey to brown

HB

otoliths

Mottled hemipelagite

2

Light grey hemipelagic deposit

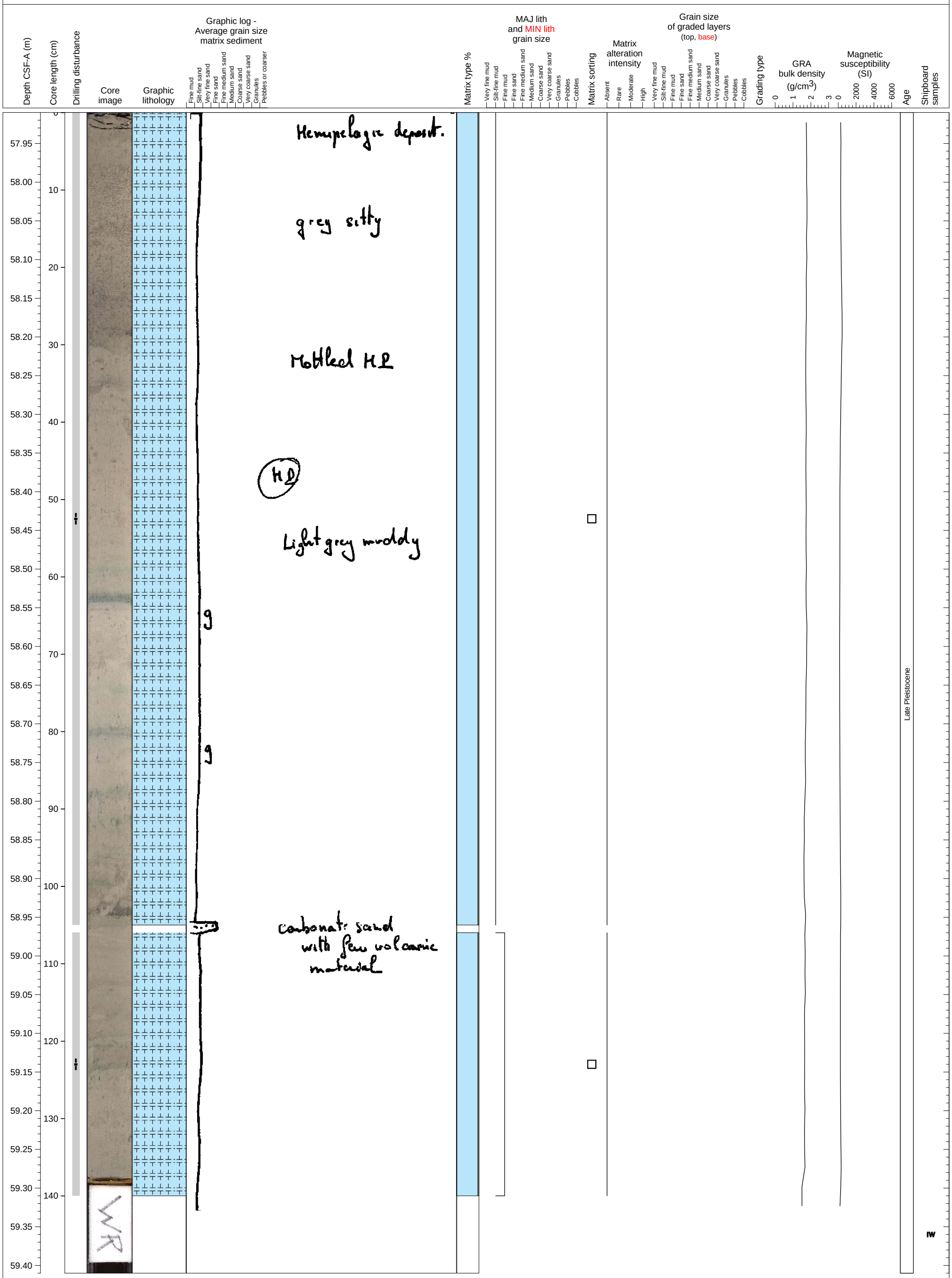
HB

Sandy layer mixed carbonate - volcaniclastic

Late Pleistocene

Hole 340-U1395B-7H Section 4, Top of Section: 57.91 CSF-A (m)

Thick carbonate muds with occasional greenish-grey streaks and a thin ash layer.



Hole 340-U1395B-7H Section 5, Top of Section: 59.41 CSF-A (m)

grey hemipelagic, mottled slightly biodisturbed

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm3)
Magnetic susceptibility (SI)
Age
Shipboard samples

59.45
59.50
59.55
59.60
59.65
59.70
59.75
59.80
59.85
59.90
59.95
60.00
60.05
60.10
60.15
60.20
60.25
60.30
60.35
60.40
60.45
60.50
60.55
60.60
60.65
60.70
60.75
60.80
60.85
60.90

10
20
30
40
50
60
70
80
90
100
110
120
130
140

Late Pleistocene

Dominantly grey silty Hemipelagic deposit

← brown zone

HL

← patch of dark m organic material

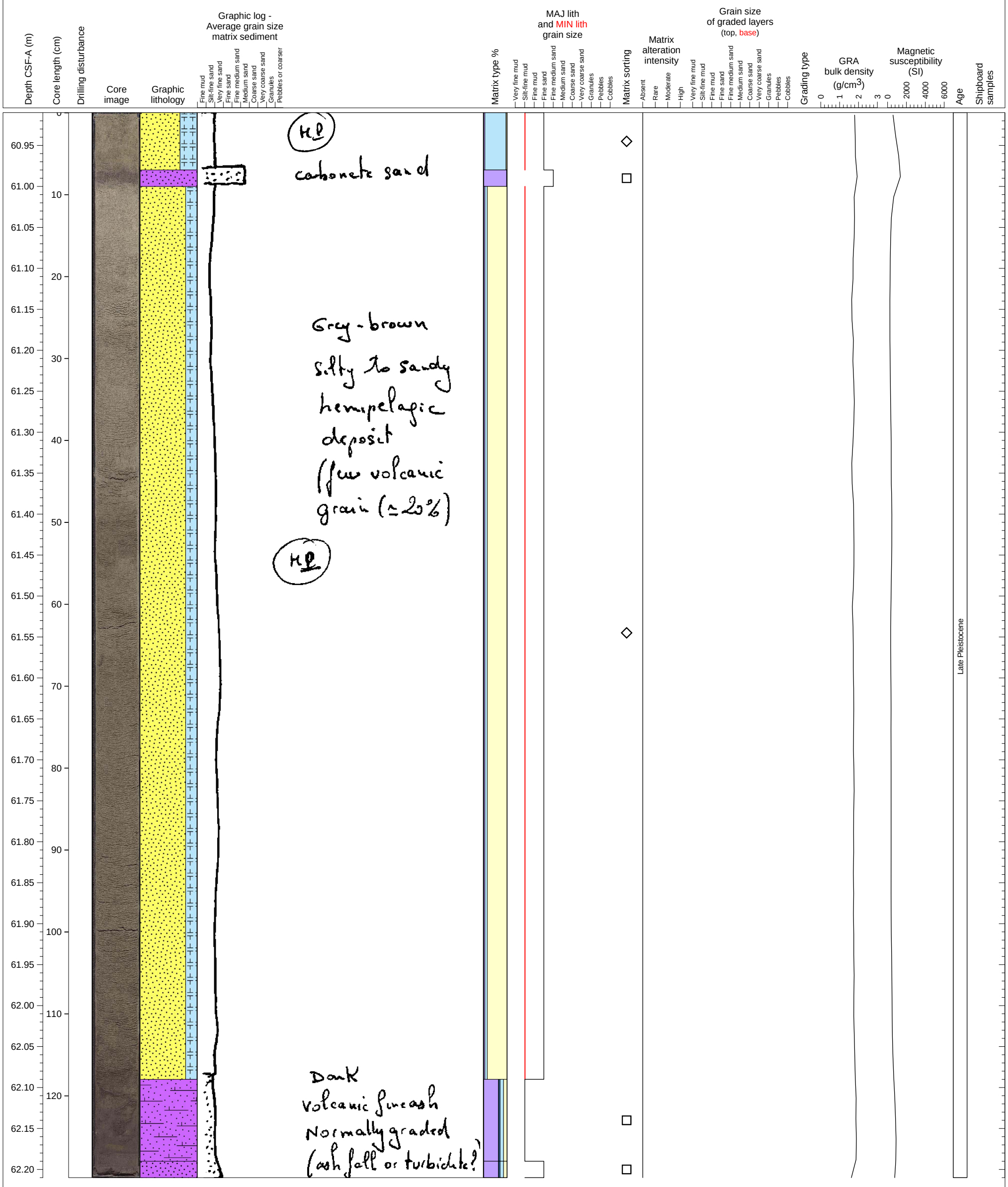
Mottled zone

← green zone

← green zone

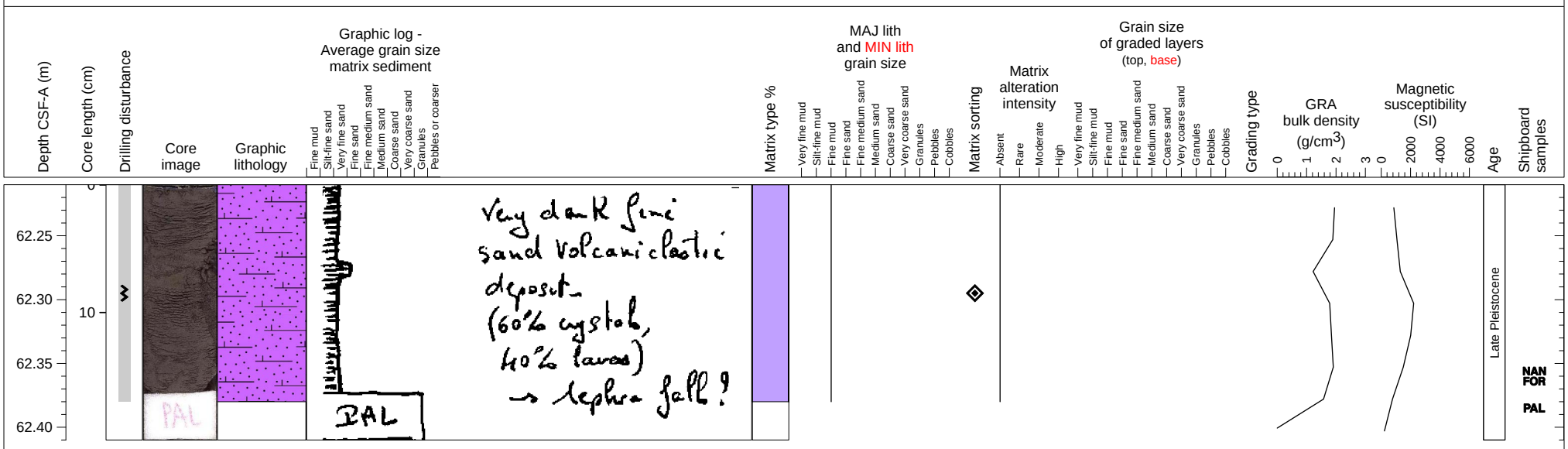
Hole 340-U1395B-7H Section 6, Top of Section: 60.91 CSF-A (m)

hemipelagic sediments with thin ash fall beds?



Hole 340-U1395B-7H Section CC, Top of Section: 62.21 CSF-A (m)

Volcaniclastic mud; sand lenses related to drilling disturbance. PAL sample from base of section.



Hole 340-U1395B-8H Section 1, Top of Section: 62.4 CSF-A (m)

mixed turbidites of bioclastic and volcaniclastic sediments, with thin volcanic ash layer

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm3)
0
1
2
3
Magnetic susceptibility (SI)
0
2000
4000
6000
Age
Shipboard samples

62.45 0
62.50 10
62.55 20
62.60 30
62.65 40
62.70 50
62.75 60
62.80 70
62.85 80
62.90 90
62.95 100
63.00 110
63.05 120
63.10 130
63.15 140
63.20
63.25
63.30
63.35
63.40
63.45
63.50
63.55
63.60
63.65
63.70
63.75
63.80
63.85
63.90

Mixed volcaniclastic carbonated turbidite

(M)

Mixed turbidite very fine sand (upper part of the lower one ?)

(M)

Mixed turbidite

(M)

dark silty volcanic ash -

P

Mixed bio-volcaniclastic turbidite with patch of volcanic sand.

(M)

P

Late Pleistocene

Hole 340-U1395B-8H Section 2, Top of Section: 63.9 CSF-A (m)

mixed turbidite within hemipelagic fines

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm3)
Magnetic susceptibility (SI)
Age
Shipboard samples

63.95 – 64.40 m

Mixed bioclastic volcaniclastic turbidite
- Massive
- Very fine sand
(M)
with patch of dark fine volcanic sand (p)

p
p
p

Dark grey Hemipelagic deposit

Mixed volcaniclastic bioclastic turbidite
(M)
very fine sand darker at the base

(M) Mixed turbidite

Late Pleistocene

Hole 340-U1395B-8H Section 3, Top of Section: 65.4 CSF-A (m)

Hemipelagic sediments with several thin volcaniclastic turbidies and a thin ash fall.

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm3)
Magnetic susceptibility (SI)
Age
Shipboard samples

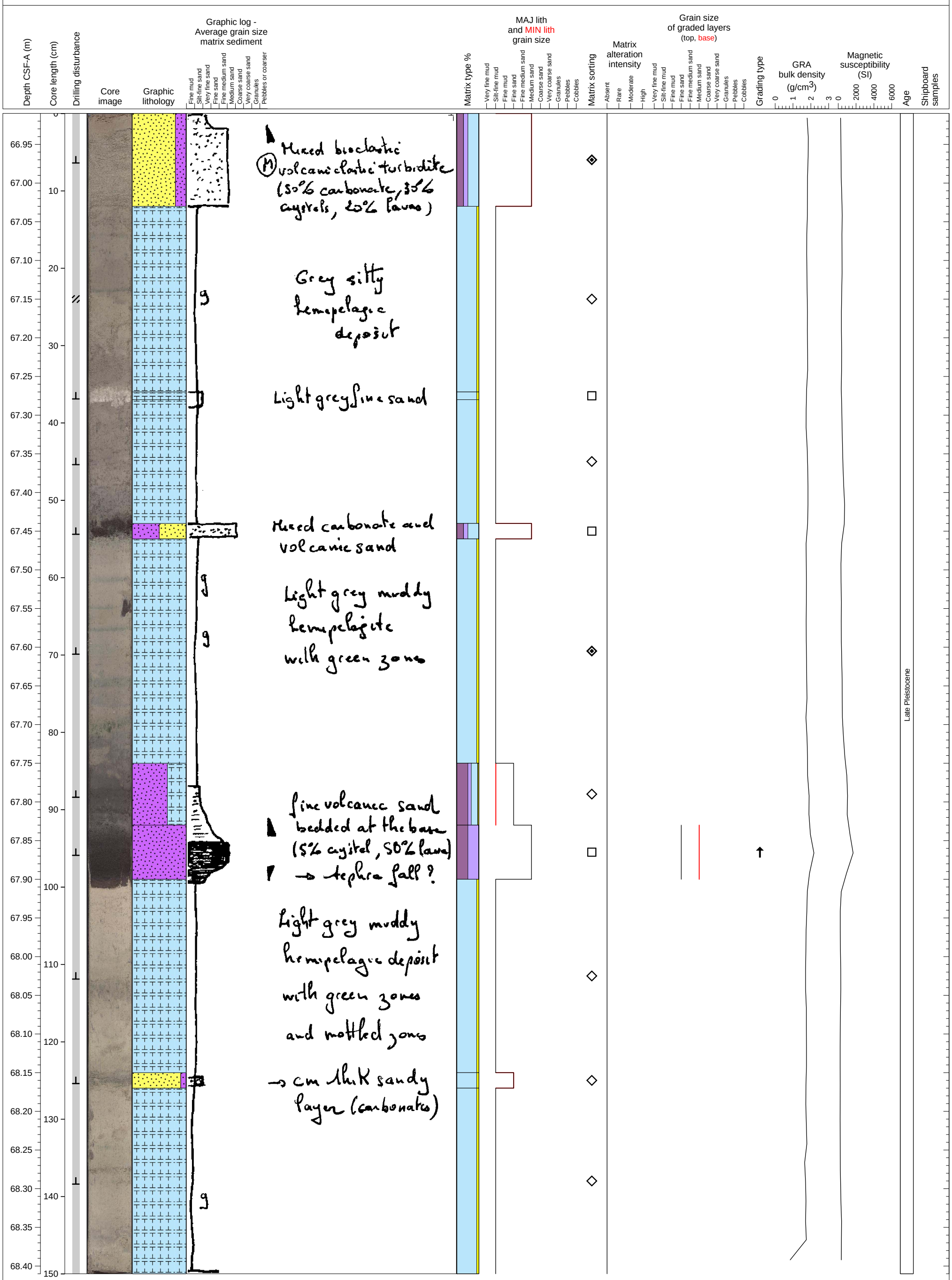
65.45 – 10
65.50 – 20
65.60 – 30
65.70 – 40
65.80 – 50
65.90 – 60
66.00 – 70
66.05 – 80
66.15 – 90
66.20 – 100
66.30 – 110
66.40 – 120
66.50 – 130
66.60 – 140
66.70 – 150
66.75

M Mixed turbidite
HP
Mixed volcaniclastic bioclastic turbidite massive
M
Grey mottled hemipelagic deposit with few green zones
HP
crystal-rich volcanic sand (90% crystals, 10% lavas) → ash fall ?
volcanic sand with few carbonate ash fall ?
grey silty hemipelagic deposit
volcanic fine sand (crystals: 90% - lavas 10% few cpx) - tephra falls
Mottled light grey hemipelagic

Late Pleistocene

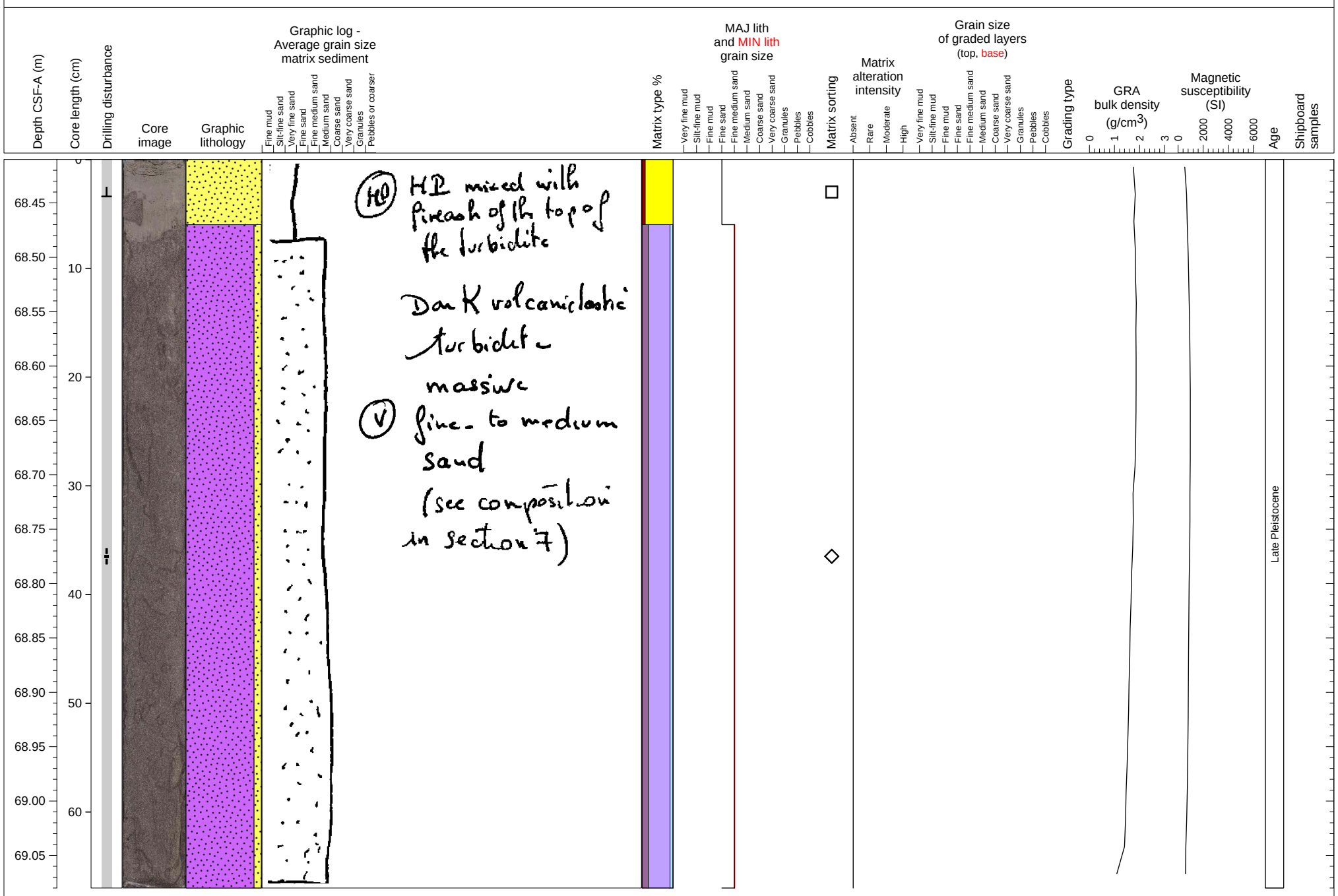
Hole 340-U1395B-8H Section 4, Top of Section: 66.91 CSF-A (m)

alternation of hemipelagic sediments and mixture of bioclastic and volcaniclastic sediments with intercalation of tephra layer



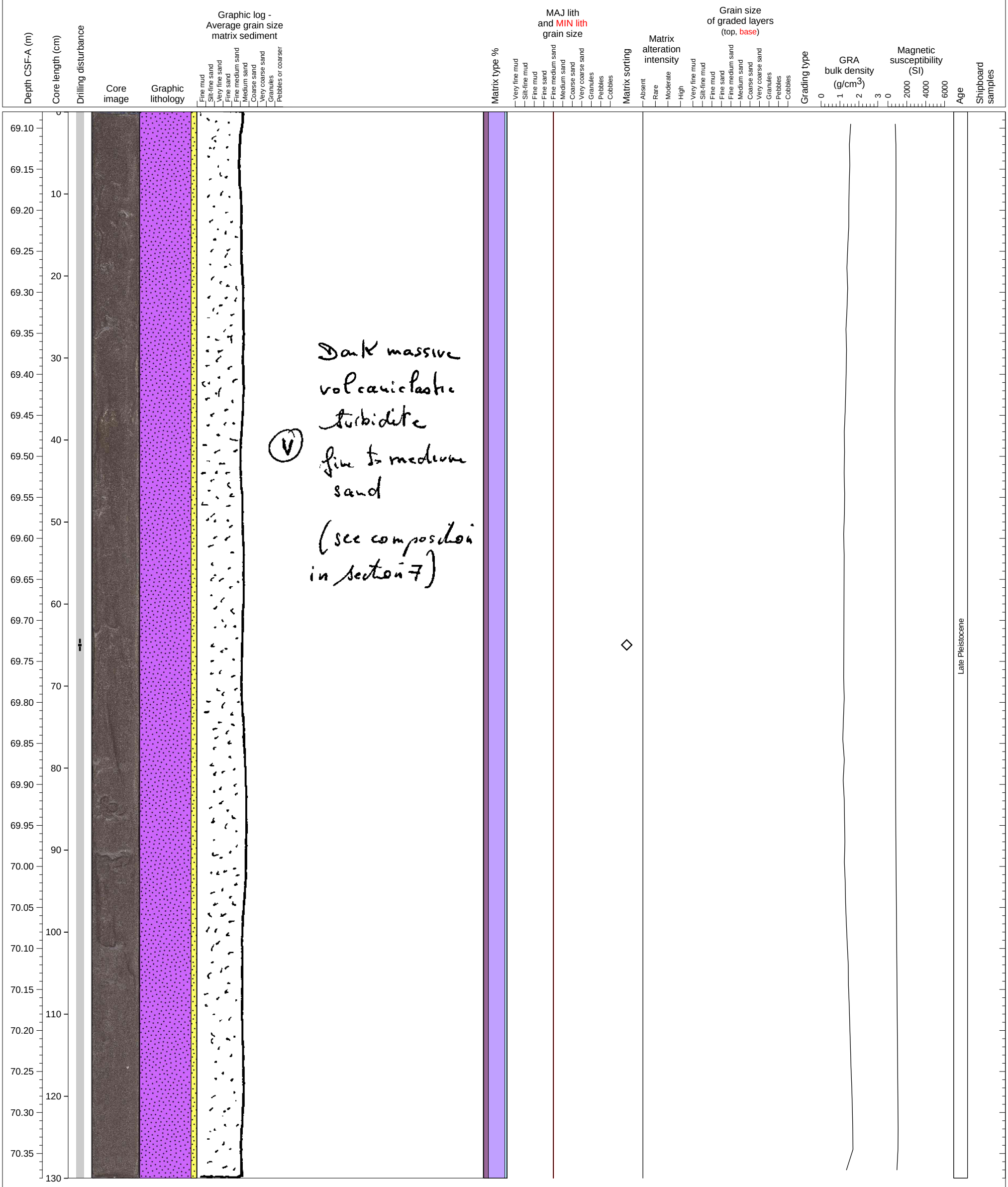
Hole 340-U1395B-8H Section 5, Top of Section: 68.41 CSF-A (m)

Thin hemipelagic sediment mixed with some ash from volcaniclastic turbidite below.



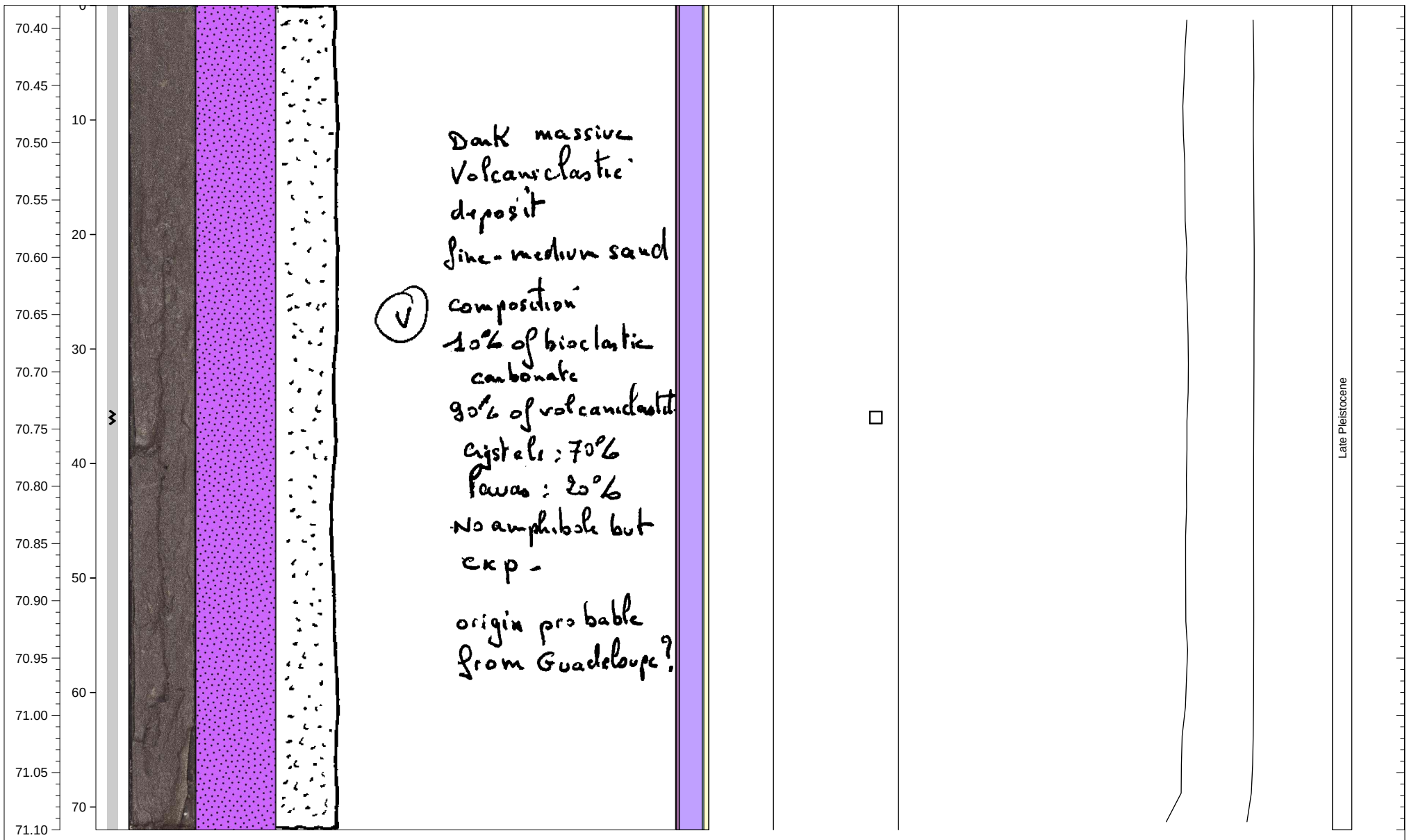
Hole 340-U1395B-8H Section 6, Top of Section: 69.08 CSF-A (m)

Thick volcaniclastic turbidite, contains green CPX and no amphibole.



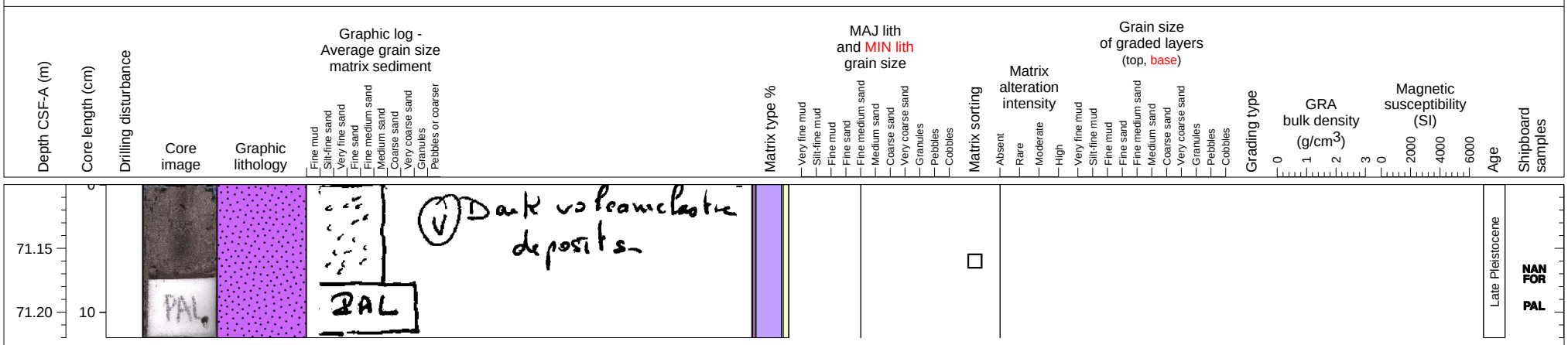
Hole 340-U1395B-8H Section 7, Top of Section: 70.38 CSF-A (m)

massive, volcaniclastic turbidite



Hole 340-U1395B-8H Section CC, Top of Section: 71.1 CSF-A (m)

massive volcaniclastic turbidite



Hole 340-U1395B-9H Section 1, Top of Section: 71.2 CSF-A (m)

hemipelagite

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm^3)
Magnetic susceptibility (SI)
Age
Shipboard samples

71.25 – 10
71.30 – 10
71.35 – 20
71.40 – 20
71.45 – 30
71.50 – 30
71.55 – 40
71.60 – 40
71.65 – 50
71.70 – 50
71.75 – 60
71.80 – 60
71.85 – 70
71.90 – 70
71.95 – 80
72.00 – 80
72.05 – 90
72.10 – 90
72.15 – 100
72.20 – 100
72.25 – 110
72.30 – 110
72.35 – 120
72.40 – 120
72.45 – 130
72.50 – 130
72.55 – 140
72.60 – 140
72.65 – 150
72.70 – 150

grey silty to muddy hemipelagic sediments with green zones

mixed volcanic (70%) and carbonate (30%) sand

grey to light grey muddy hemipelagic sediments

A lot of green zones

→ darker zone

g
g
g
g
g
g
g

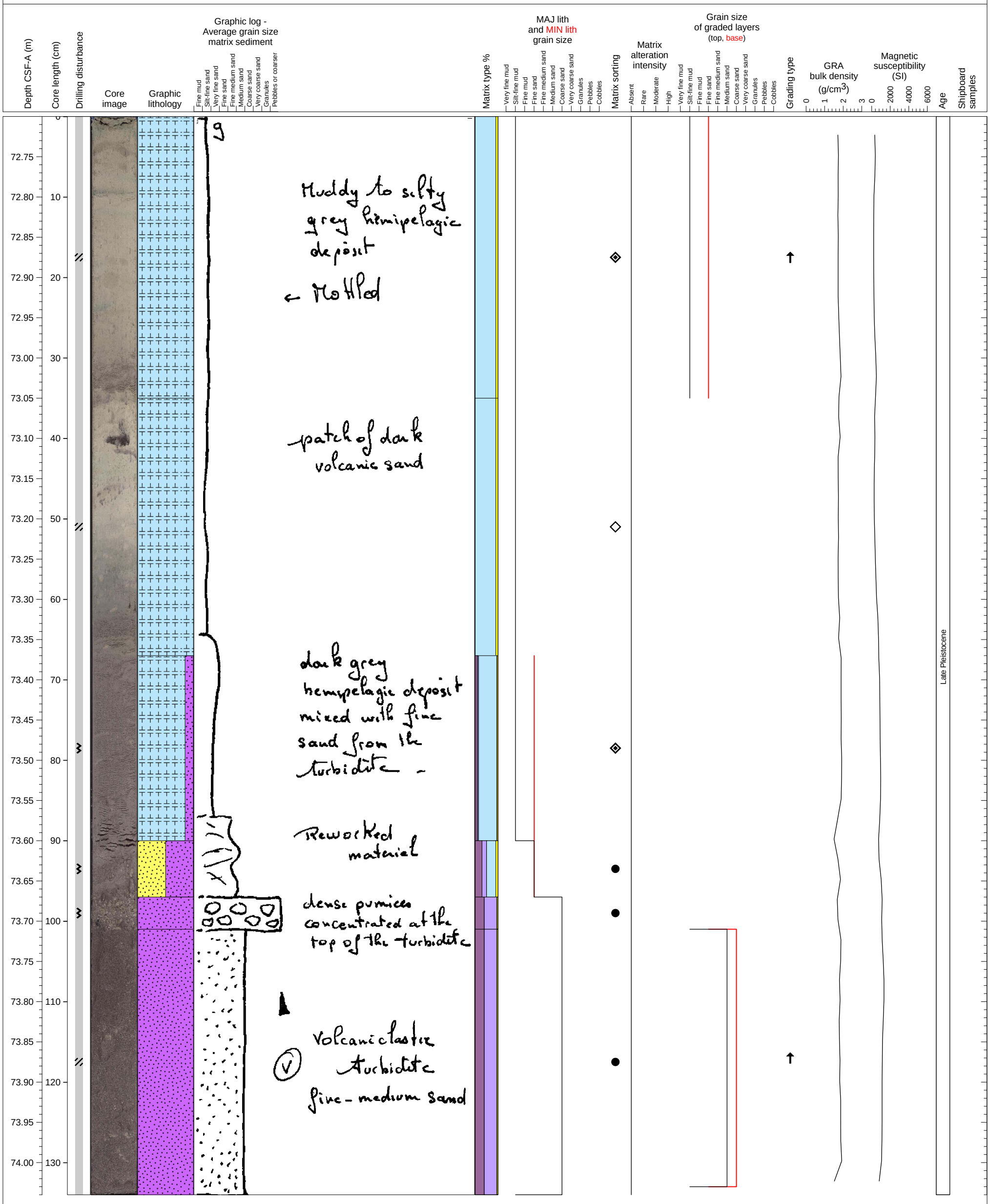
Late Pleistocene

PMG

IW

Hole 340-U1395B-9H Section 2, Top of Section: 72.7 CSF-A (m)

bottom part of hemipelagic sediments underlain by volcaniclastic turbidite



Hole 340-U1395B-9H Section 3, Top of Section: 74.04 CSF-A (m)

Volcaniclastic turbidite with 10% bioclasts

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm3)
Magnetic susceptibility (SI)
Age
Shipboard samples

Volcaniclastic turbidite normally graded from medium-sand at the base to fine-medium sand at the top

(V)

(Composition in section 7)

The grading appears only in this part of the turbidite

Late Pleistocene

Hole 340-U1395B-9H Section 4, Top of Section: 75.4 CSF-A (m)

dark grey massive volcaniclastic turbidite

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud | Silt-fine sand | Very fine sand | Fine sand | Fine medium sand | Medium sand | Coarse sand | Very coarse sand | Granules | Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud | Silt-fine mud | Fine mud | Fine sand | Fine medium sand | Medium sand | Coarse sand | Very coarse sand | Granules | Pebbles | Cobbles
Matrix sorting
Matrix alteration intensity
Absent | Rare | Moderate | High
Grain size of graded layers (top, base)
Very fine mud | Silt-fine mud | Fine mud | Fine sand | Fine medium sand | Medium sand | Coarse sand | Very coarse sand | Granules | Pebbles | Cobbles
Grading type
GRA bulk density (g/cm^3)
0 | 1 | 2 | 3
Magnetic susceptibility (SI)
0 | 2000 | 4000 | 6000
Age
Shipboard samples

75.45 | 10
75.50
75.55
75.60 | 20
75.65
75.70 | 30
75.75
75.80 | 40
75.85
75.90 | 50
75.95
76.00 | 60
76.05
76.10 | 70
76.15
76.20 | 80
76.25
76.30 | 90
76.35
76.40 | 100
76.45
76.50 | 110
76.55

Dark volcaniclastic turbidite

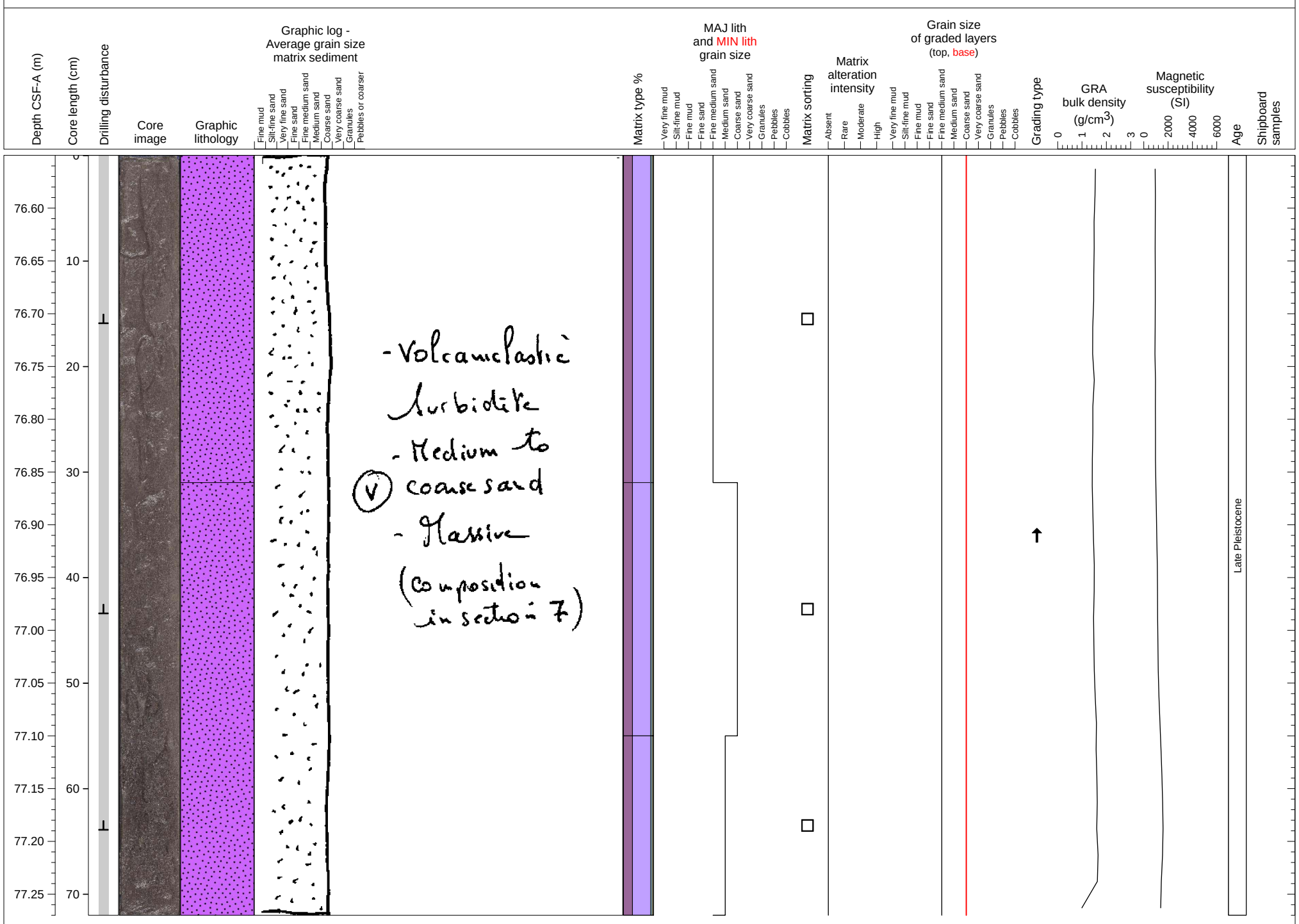
Medium-sand

(composition in section 7)

Late Pleistocene

Hole 340-U1395B-9H Section 5, Top of Section: 76.55 CSF-A (m)

dark grey massive volcaniclastic turbidite



Hole 340-U1395B-9H Section 6, Top of Section: 77.27 CSF-A (m)

Volcaniclastic turbidite with 10% bioclasts

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm^3)
Magnetic susceptibility (SI)
Age
Shipboard samples

77.30
77.35
77.40
77.45
77.50
77.55
77.60
77.65
77.70
77.75
77.80
77.85
77.90
77.95
78.00
78.05
78.10
78.15
78.20
78.25
78.30
78.35
78.40
78.45
78.50
78.55
78.60
78.65

0
10
20
30
40
50
60
70
80
90
100
110
120
130
140

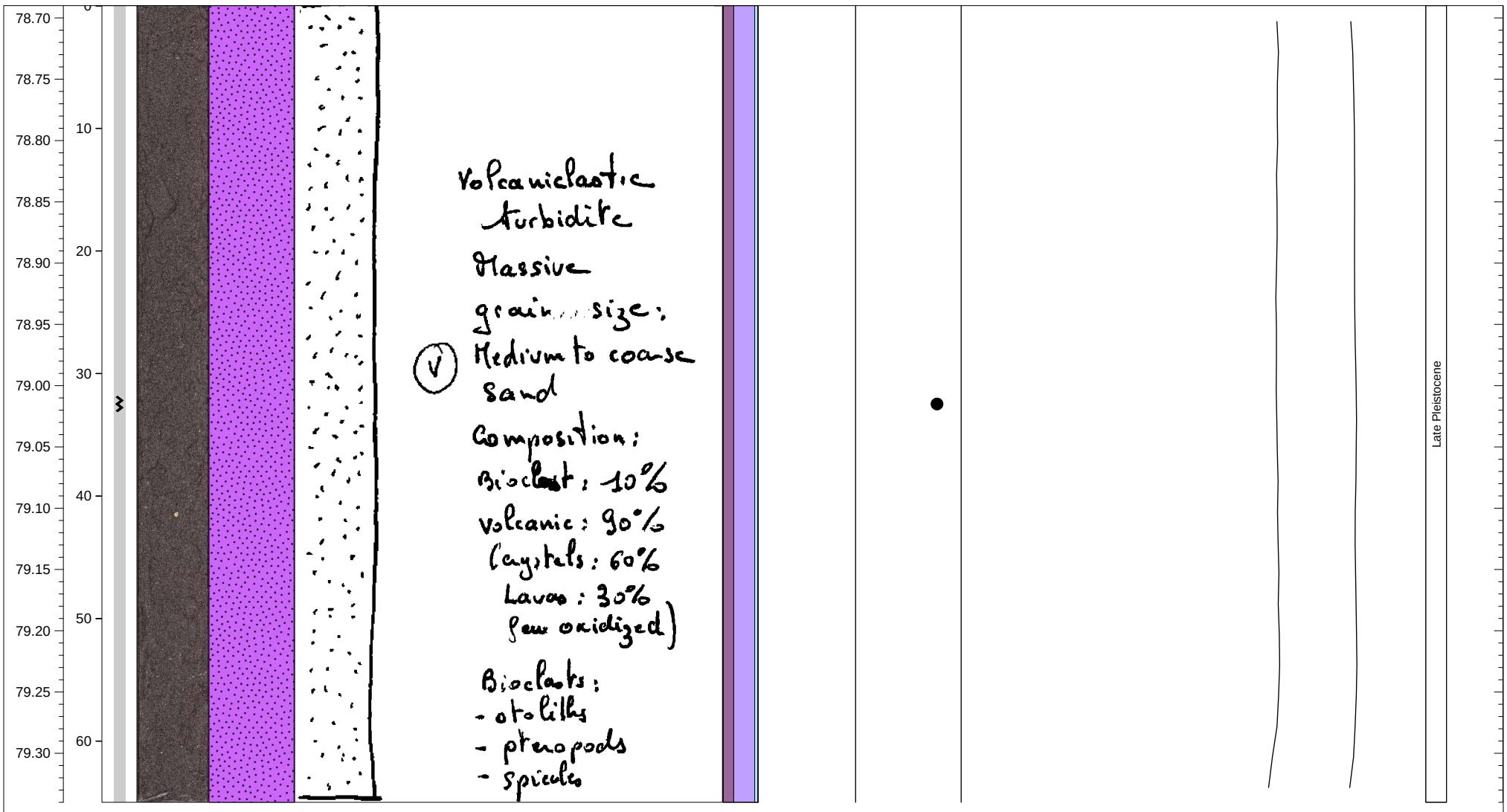
- Volcaniclastic turbidite
- Medium to coarse-sand
- Massive (composition in section 7)

V

Late Pleistocene

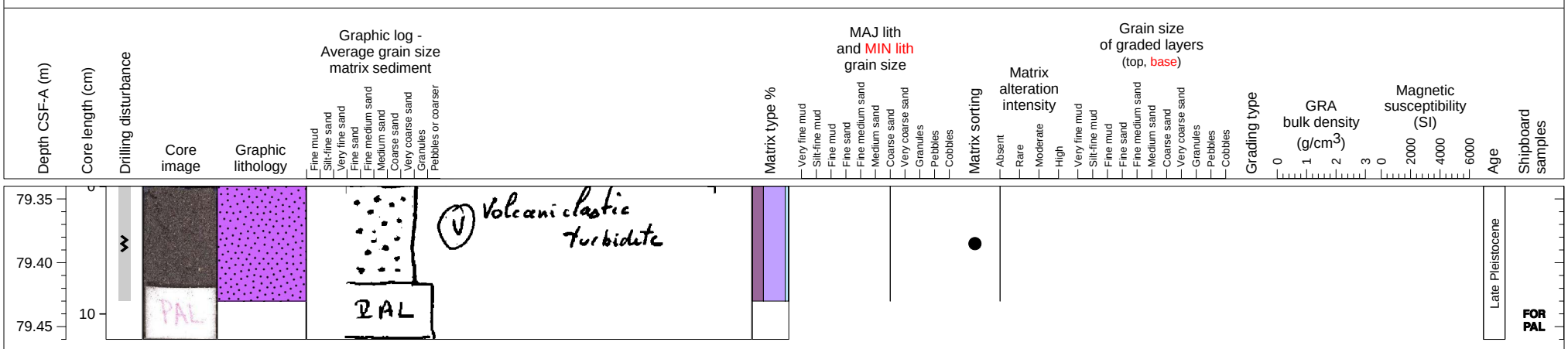
Hole 340-U1395B-9H Section 7, Top of Section: 78.69 CSF-A (m)

massive volcanic turbidite



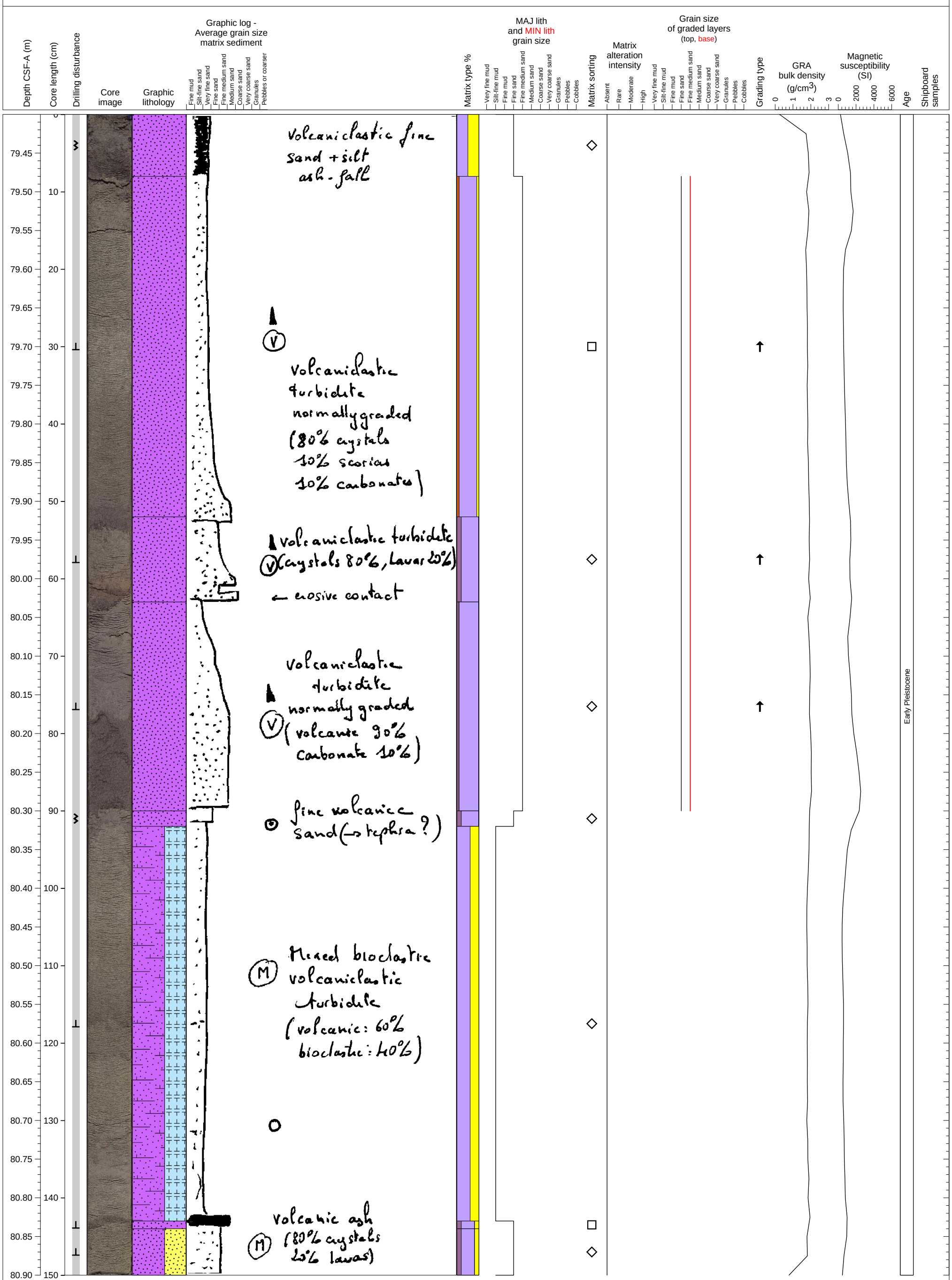
Hole 340-U1395B-9H Section CC, Top of Section: 79.34 CSF-A (m)

volcaniclastic sand in core catcher



Hole 340-U1395B-10H Section 1, Top of Section: 79.4 CSF-A (m)

Series of stacked volcaniclastic turbidites with thin ash layers.



Hole 340-U1395B-10H Section 2, Top of Section: 80.9 CSF-A (m)

hemipelagic fines with 1 ashfall? layer

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm3)
0
1
2
3
Magnetic susceptibility (SI)
0
2000
4000
6000
Age
Shipboard samples

80.95
81.00
81.05
81.10
81.15
81.20
81.25
81.30
81.35
81.40
81.45
81.50
81.55
81.60
81.65
81.70
81.75
81.80
81.85
81.90
81.95
82.00
82.05
82.10
82.15
82.20
82.25
82.30
82.35
82.40

0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150

(M) Mixed turbidite

Silt → fine sand hemipelagic Sediment dark-grey

Muddy - silty grey to green hemipelagic deposit

g
g

← patch of dark sand

volcanic sand (80% crystals 10% lavas)

Muddy-silty light grey to green hemipelagic deposit

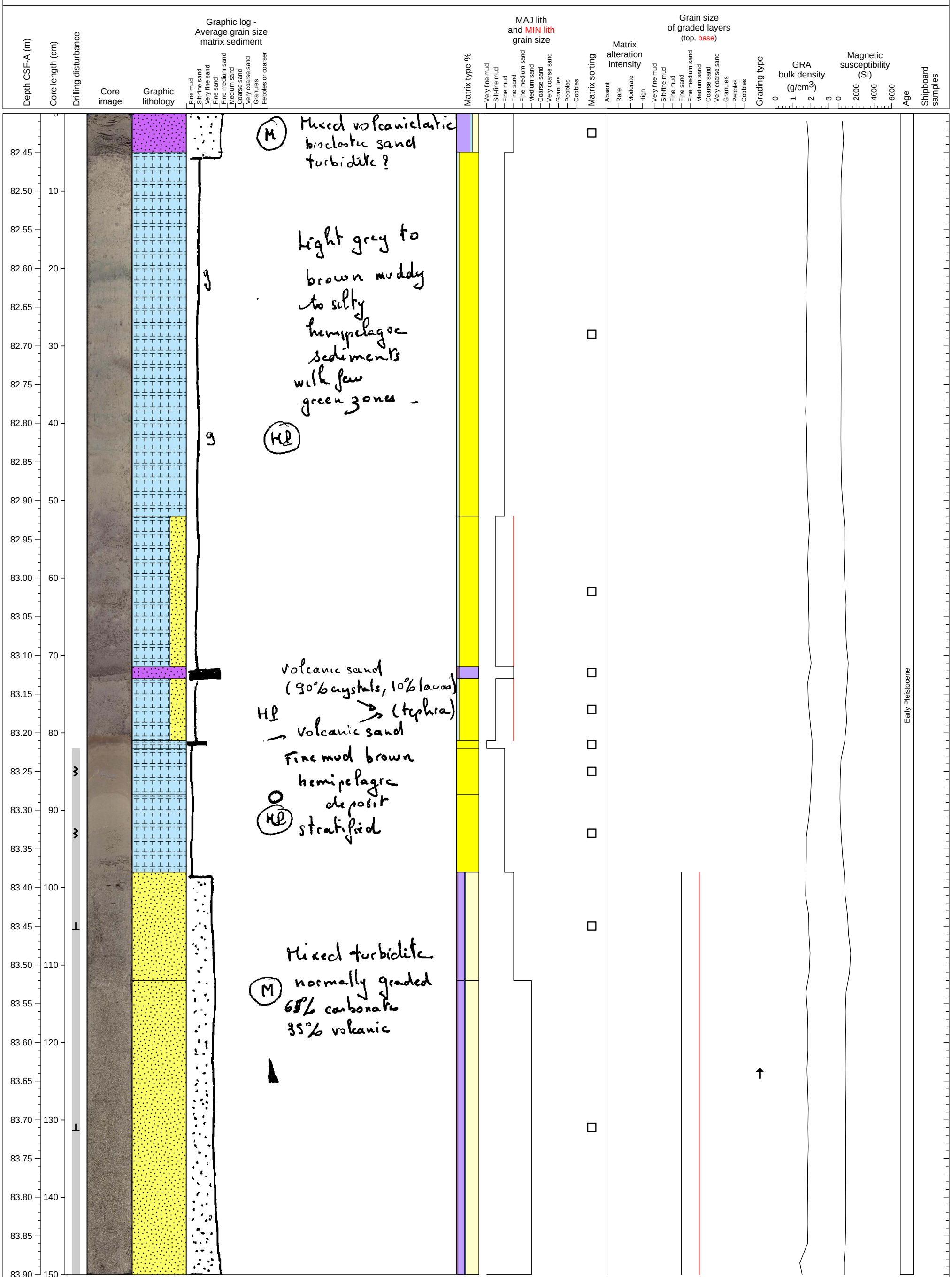
g

Early Pleistocene

IW

Hole 340-U1395B-10H Section 3, Top of Section: 82.4 CSF-A (m)

hemipelagite with ~50 cm thick mixed turbidite at the bottom of the section



Hole 340-U1395B-10H Section 4, Top of Section: 83.9 CSF-A (m)

mottled hemipelagic sediments intercalated with volcanic ash layers

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud | Silt-fine sand | Very fine sand | Fine sand | Fine medium sand | Medium sand | Coarse sand | Very coarse sand | Granules | Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud | Silt-fine mud | Fine mud | Fine sand | Fine medium sand | Medium sand | Coarse sand | Very coarse sand | Granules | Pebbles | Cobbles
Matrix sorting
Matrix alteration intensity
Absent | Rare | Moderate | High
Grain size of graded layers (top, base)
Very fine mud | Silt-fine mud | Fine mud | Fine sand | Fine medium sand | Medium sand | Coarse sand | Very coarse sand | Granules | Pebbles | Cobbles
Grading type
GRA bulk density (g/cm^3)
0 | 1 | 2 | 3
Magnetic susceptibility (SI)
0 | 2000 | 4000 | 6000
Age
Shipboard samples

83.95 – 84.00 – 84.05 – 84.10 – 84.15 – 84.20 – 84.25 – 84.30 – 84.35 – 84.40 – 84.45 – 84.50 – 84.55 – 84.60 – 84.65 – 84.70 – 84.75 – 84.80 – 84.85 – 84.90 – 84.95 – 85.00 – 85.05 – 85.10 – 85.15 – 85.20 – 85.25 – 85.30 – 85.35 – 85.40

10 – 20 – 30 – 40 – 50 – 60 – 70 – 80 – 90 – 100 – 110 – 120 – 130 – 140 – 150

Mixed turbidite

Brown fine-sandy volcanic layer (→ tephra)

Hemipelagite

fine sand volcanic layer (→ tephra)

→ tephra

grey to brown muddy HP

HP

Mottled grey to brown HP

Light grey muddy HP

fine and coarse sand volcanic layers (→ tephra fallout)

(60% crystals, 40% lavas)

Mottled silty grey hemipelagic sediments

HP

Early Pleistocene

Hole 340-U1395B-10H Section 5, Top of Section: 85.41 CSF-A (m)

Predominantly hemipelagic sediments with two thin ash layers.

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm^3)
0
1
2
3
Magnetic susceptibility (SI)
0
2000
4000
6000
Age
Shipboard samples

85.45
85.50
85.55
85.60
85.65
85.70
85.75
85.80
85.85
85.90
85.95
86.00
86.05
86.10
86.15
86.20
86.25
86.30
86.35
86.40
86.45
86.50
86.55
86.60
86.65
86.70
86.75
86.80
86.85
86.90

10
20
30
40
50
60
70
80
90
100
110
120
130
140
150

Grey to brown hemipelagic deposit

Abundant patches of dark sand rich in organic matter

crystal-rich volcanic layer (90% cristal, 10% lava) → tephra-fallout
Normally graded

Light grey to top to mottled grey-brown hempelagic deposit

Mixed volcaniclastic-bioclastic sand

Mottled grey to brown hemipelagic sediment

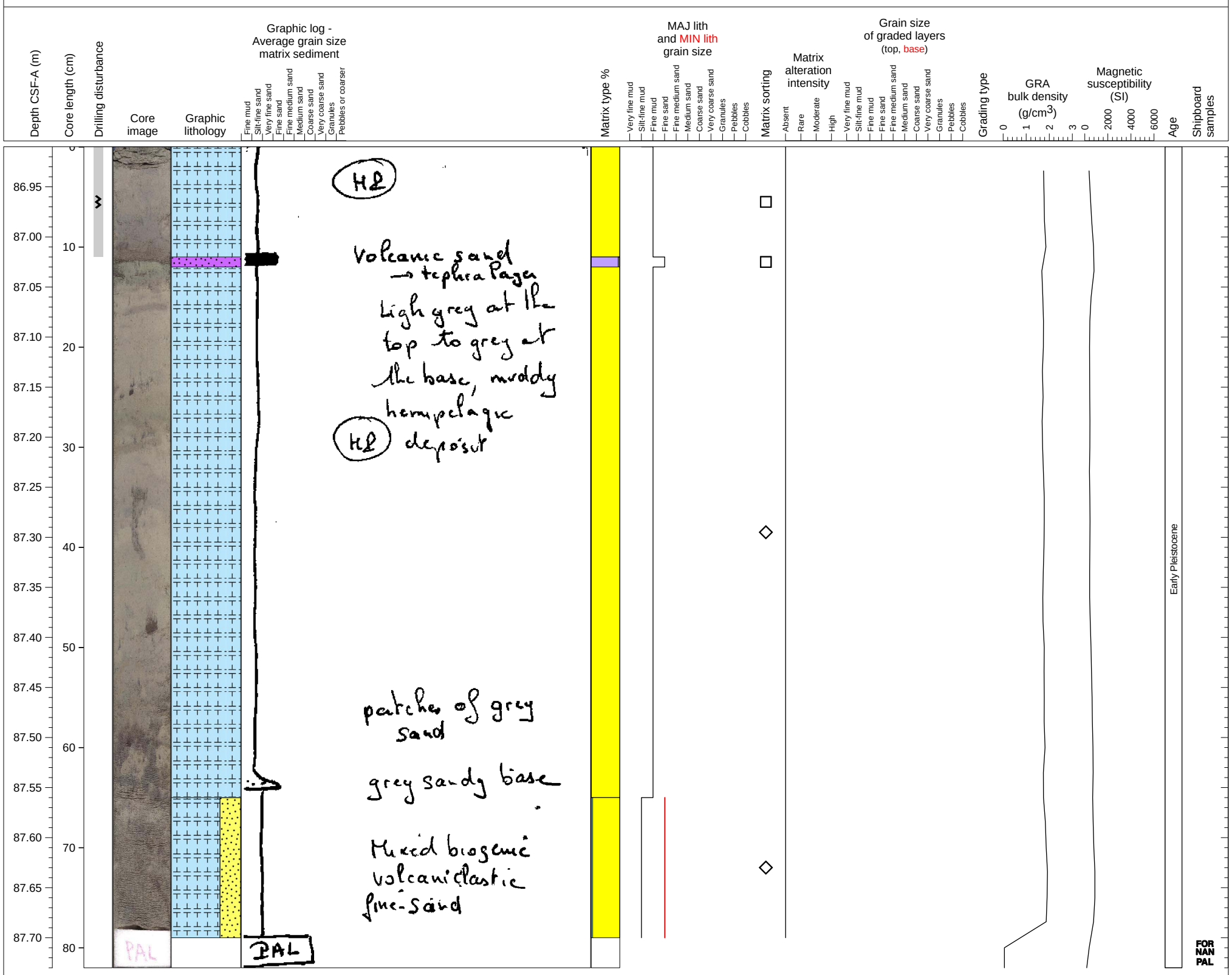
Early Pleistocene

PMG

IW

Hole 340-U1395B-10H Section 6, Top of Section: 86.91 CSF-A (m)

hemipelagite with one thin ashfall? layer intercalation



Hole 340-U1395B-11H Section 1, Top of Section: 87.7 CSF-A (m)

mottled hemipelagic sediments intercalated with volcanic ash layers

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm^3)
0
1
2
3
Magnetic susceptibility (SI)
0
2000
4000
6000
Age
Shipboard samples

87.75
87.80
87.85
87.90
87.95
88.00
88.05
88.10
88.15
88.20
88.25
88.30
88.35
88.40
88.45
88.50
88.55
88.60
88.65
88.70
88.75
88.80
88.85
88.90
88.95
89.00
89.05
89.10
89.15
89.20

10
20
30
40
50
60
70
80
90
100
110
120
130
140
150

light grey to green silty hemipelagic deposit
HP

Volcanic sand (90% crystals + lavas) (10% carbonates)

light grey muddy to silty HP

volcaniclastic layer Normally graded (crystals 95%, lavas 5%) (→ tephra ?)

light grey muddy hemipelagic deposit
HP

tephra layer

Volcanic sand (90% crystals 10% lava, 10% carbonate)
green to grey silty hemipelagic
HP

Early Pleistocene

Hole 340-U1395B-11H Section 2, Top of Section: 89.2 CSF-A (m)

hemipelagic sediment intercalated with several volcanic ash layers

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm^3)
0
1
2
3
Magnetic susceptibility (SI)
0
2000
4000
6000
Age
Shipboard samples

89.25 – 0
89.30 – 10
89.35
89.40 – 20
89.45
89.50 – 30
89.55
89.60 – 40
89.65
89.70 – 50
89.75
89.80 – 60
89.85
89.90 – 70
89.95
90.00 – 80
90.05
90.10 – 90
90.15
90.20 – 100
90.25
90.30 – 110
90.35
90.40 – 120
90.45
90.50 – 130
90.55
90.60 – 140
90.65
90.70 – 150

Grey to brown silty hemipelagic sediments
volcanic sand (→ tephra)
HP
Dark grey hemipelagite
Volcanic sand (tephra)
Grey silty hemipelagite
HP
volcanic sand normally graded → tephra (40% crystals)
Mottled light grey to grey muddy hemipelagic sediment
HP
HP
volcanic sand → tephra (60% crystals 40% lavas)

Early Pleistocene
PMG

Hole 340-U1395B-11H Section 3, Top of Section: 90.7 CSF-A (m)

hemipelagic fine sediments with several intercalations of ashfall? layers

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm3)
0
1
2
3
Magnetic susceptibility (SI)
0
2000
4000
6000
Age
Shipboard samples

90.75
90.80
90.85
90.90
90.95
91.00
91.05
91.10
91.15
91.20
91.25
91.30
91.35
91.40
91.45
91.50
91.55
91.60
91.65
91.70
91.75
91.80
91.85
91.90
91.95
92.00
92.05
92.10
92.15
92.20

0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150

Mottled grey (HP) silty hemipelagic sediment

Volcanic sand (80% crystals 10% lavas 10% carbonate) → tephra

HP

highly disturbed (by drilling)

volcanic sand (70% crystals 20% lavas 10% carbonate)

HP

Light grey HP

Volcanic sand crystal rich (90%)

HP

bedded volcanic sand crystal rich (90%)

Normally graded → tephra

HP

Smoothly bedded volcanic ash normally graded → Tephra

HP

Grey Hemipelagite

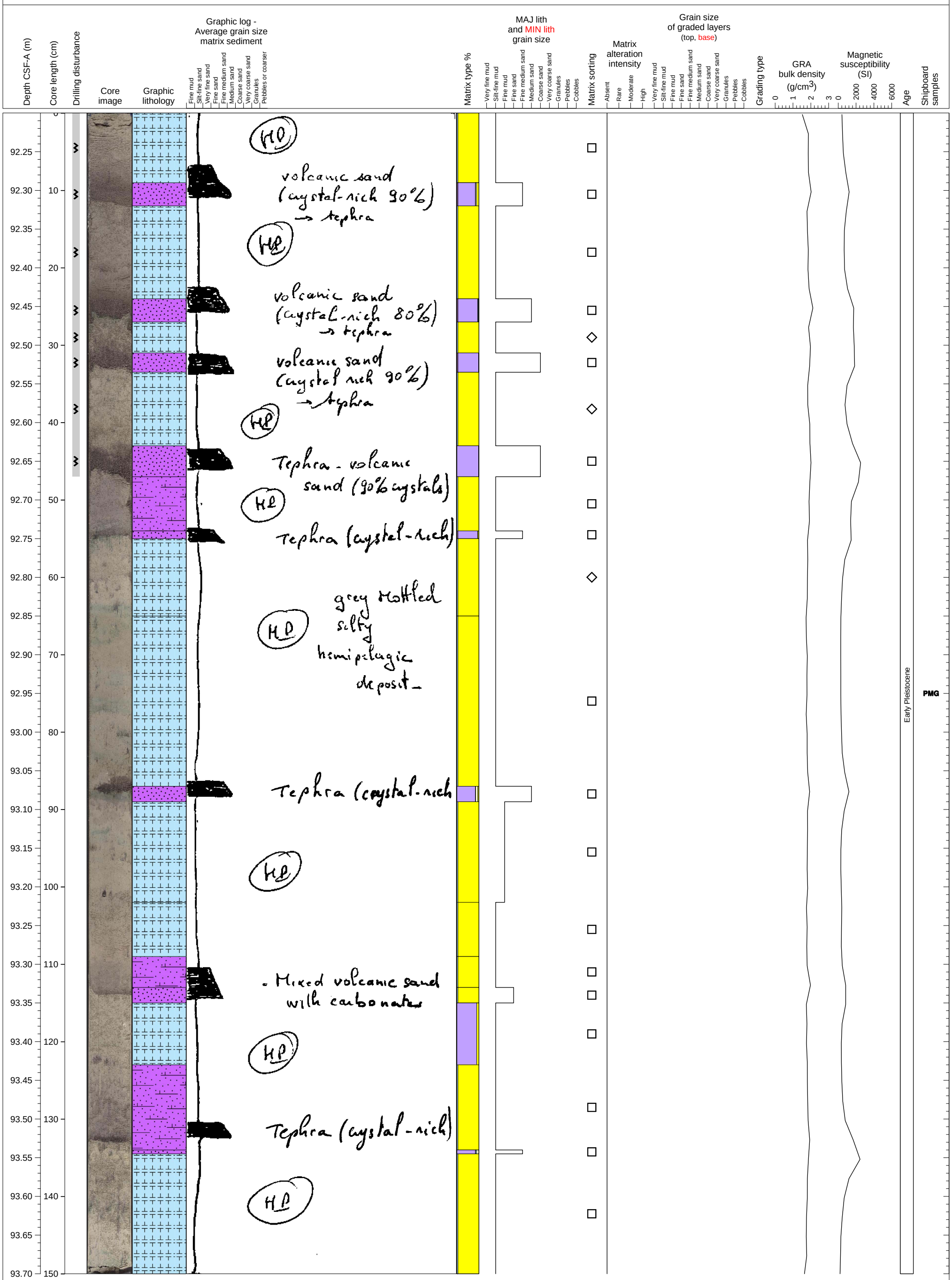
WR

Early Pleistocene

IW

Hole 340-U1395B-11H Section 4, Top of Section: 92.2 CSF-A (m)

hemipelagic sediments intercalated with 8 thin layers of ashfall or volcaniclastic sand



Hole 340-U1395B-11H Section 5, Top of Section: 93.7 CSF-A (m)

hemipelagic sediments with 70 cm thick mixed turbidite in the middle of the section

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm^3)
0
1
2
3
Magnetic susceptibility (SI)
0
2000
4000
6000
Age
Shipboard samples

93.75
93.80
93.85
93.90
93.95
94.00
94.05
94.10
94.15
94.20
94.25
94.30
94.35
94.40
94.45
94.50
94.55
94.60
94.65
94.70
94.75
94.80
94.85
94.90
94.95
95.00
95.05
95.10
95.15
95.20

10
20
30
40
50
60
70
80
90
100
110
120
130
140
150

light grey silty hemipelagic deposit few zones of green color

Mixed bioclastic Volcaniclastic turbidite fine - grained normally graded (60% volcanic 40% bioclastic)

silty to fine - sandy light-grey hemipelagic sediment

Early Pleistocene

Hole 340-U1395B-11H Section 6, Top of Section: 95.2 CSF-A (m)

Hemipelagic sediment overlying a sequence of tephras and a thick volcaniclastic, pumice-rich turbidite.

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm3)
Magnetic susceptibility (SI)
Age
Shipboard samples

95.25 10
95.30
95.35
95.40 20
95.45
95.50 30
95.55
95.60 40
95.65
95.70 50
95.75
95.80 60
95.85
95.90 70
95.95
96.00 80
96.05
96.10 90
96.15
96.20 100
96.25
96.30 110
96.35
96.40 120
96.45
96.50 130
96.55
96.60 140

Grey silty hemipelagic deposit

very fine sand volcaniclastite → tephra layer stratified

Mixed bioclastic volcaniclastic sand

highly disturbed

volcaniclastic turbidite with a medium to coarse sand matrix (crystal rich 90%)

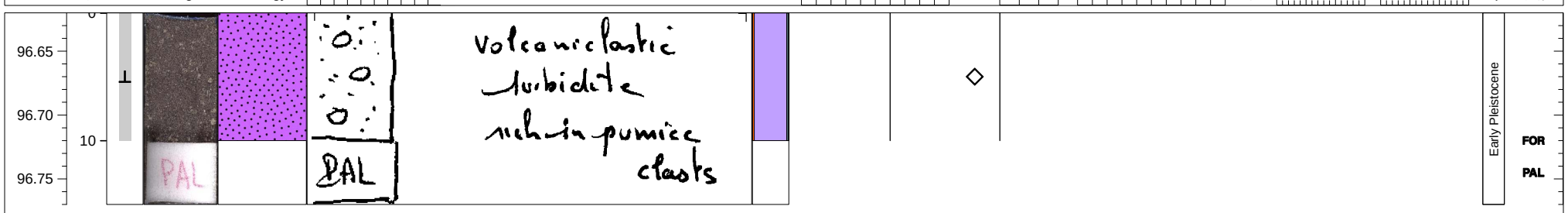
Abundant pumice white clast (with cpx and no hornblende)

PMG

Early Pleistocene

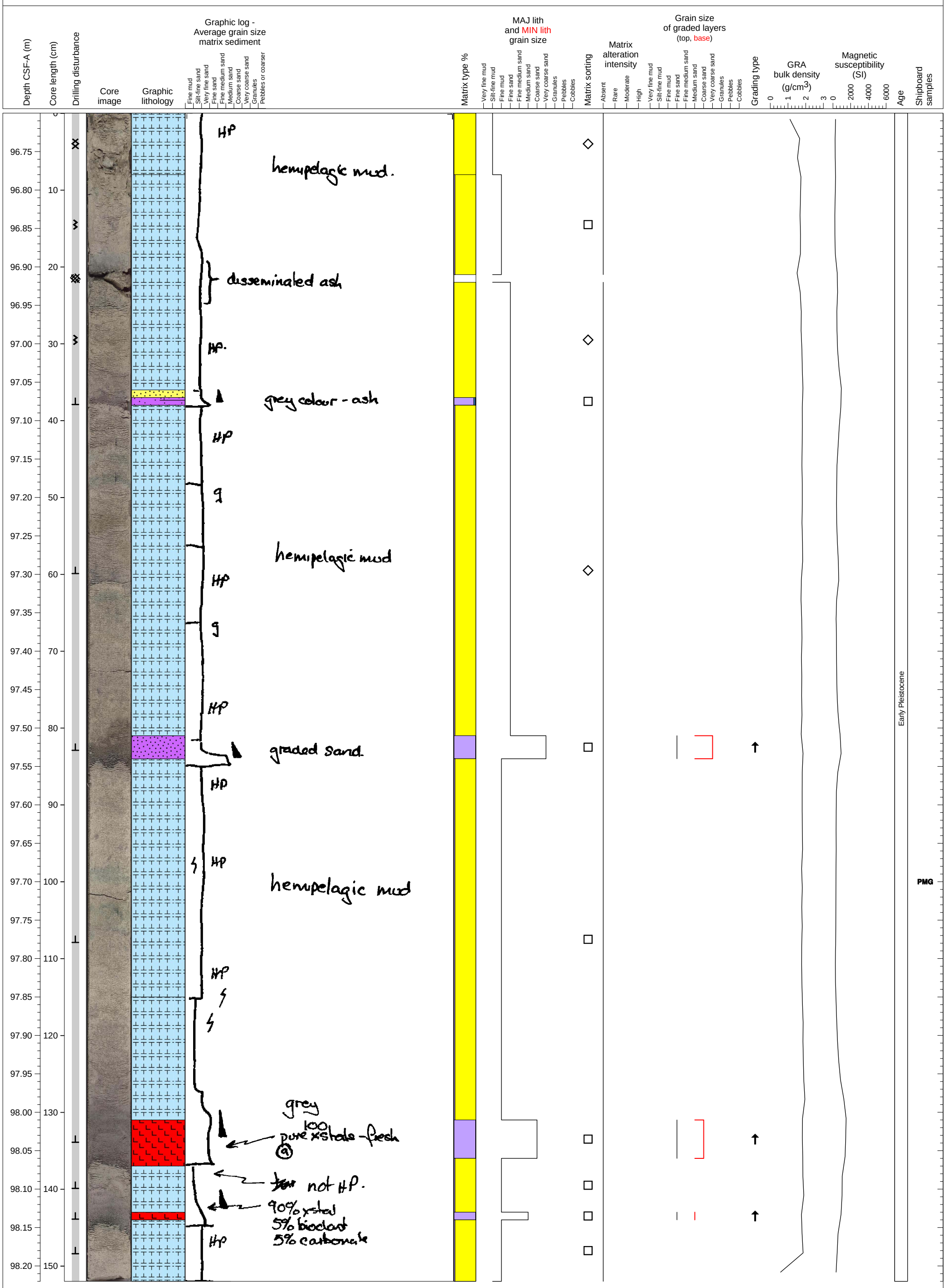
Hole 340-U1395B-11H Section CC, Top of Section: 96.62 CSF-A (m)

Volcaniclastic turbidite with small pumice clasts up to 10 mm.



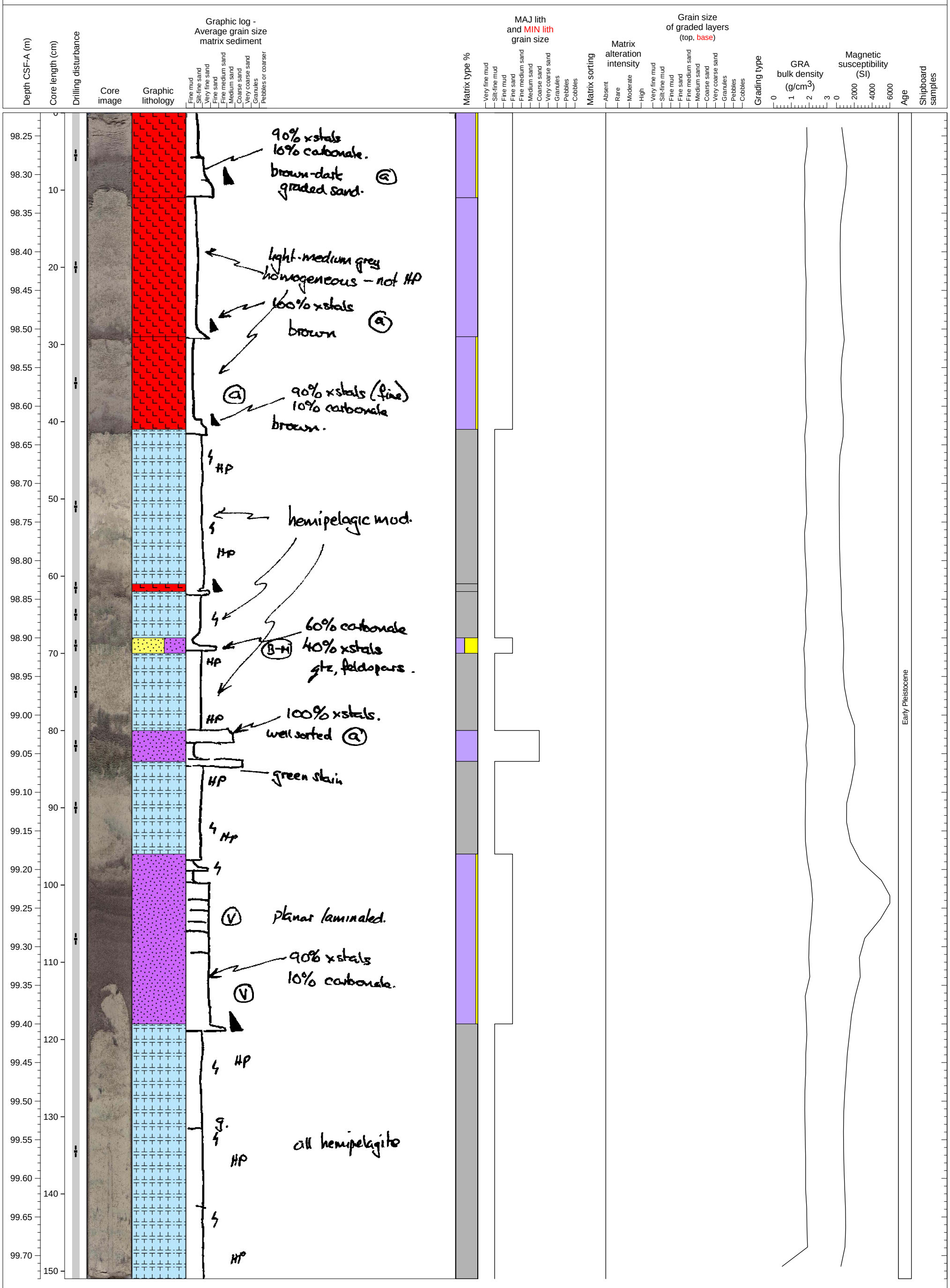
Hole 340-U1395B-12H Section 1, Top of Section: 96.7 CSF-A (m)

Hemipelagic sediments with several thint o medium thick tephra layers.



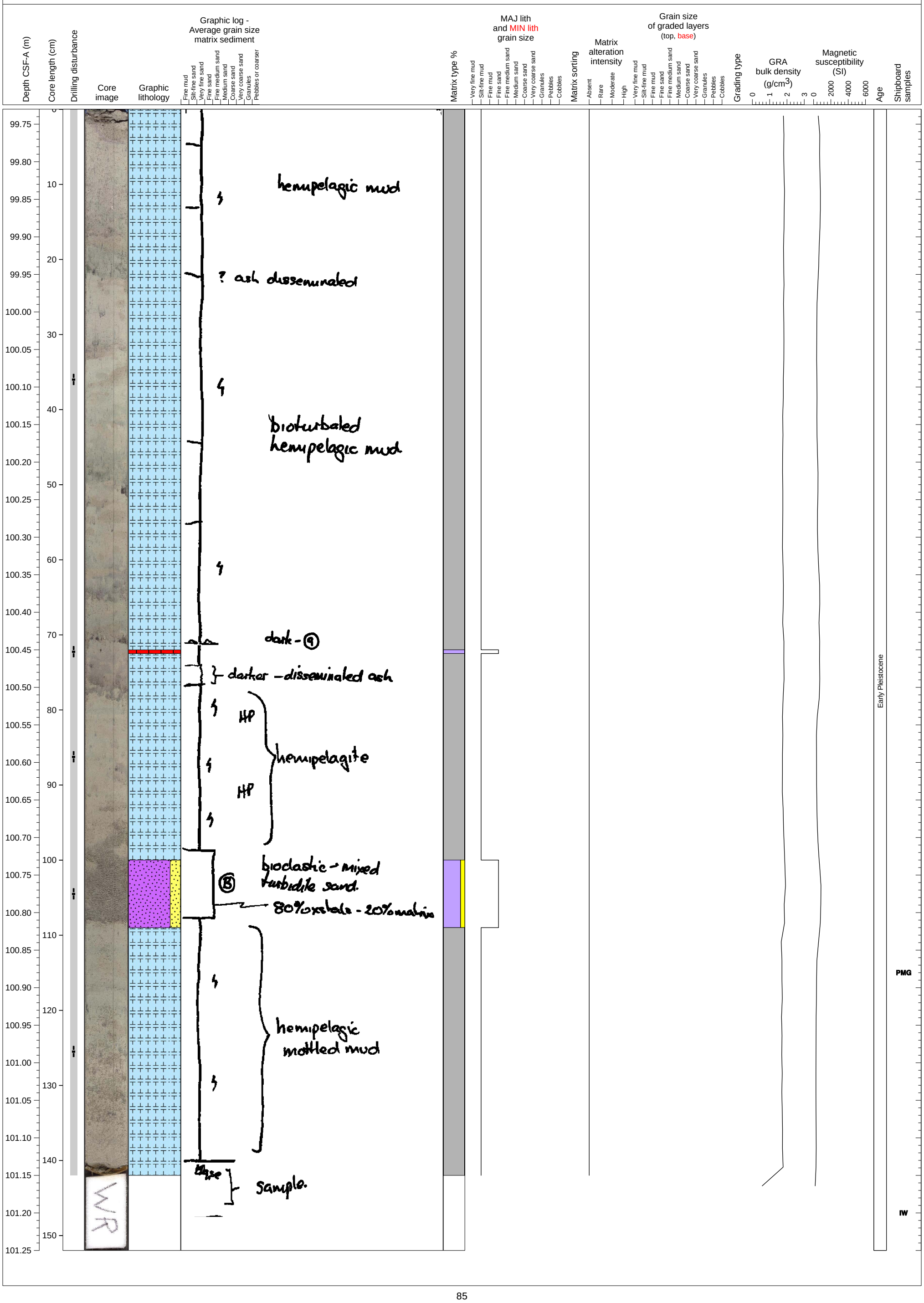
Hole 340-U1395B-12H Section 2, Top of Section: 98.22 CSF-A (m)

hemipelagic sediments intercalated with several ashfall? layers



Hole 340-U1395B-12H Section 3, Top of Section: 99.73 CSF-A (m)

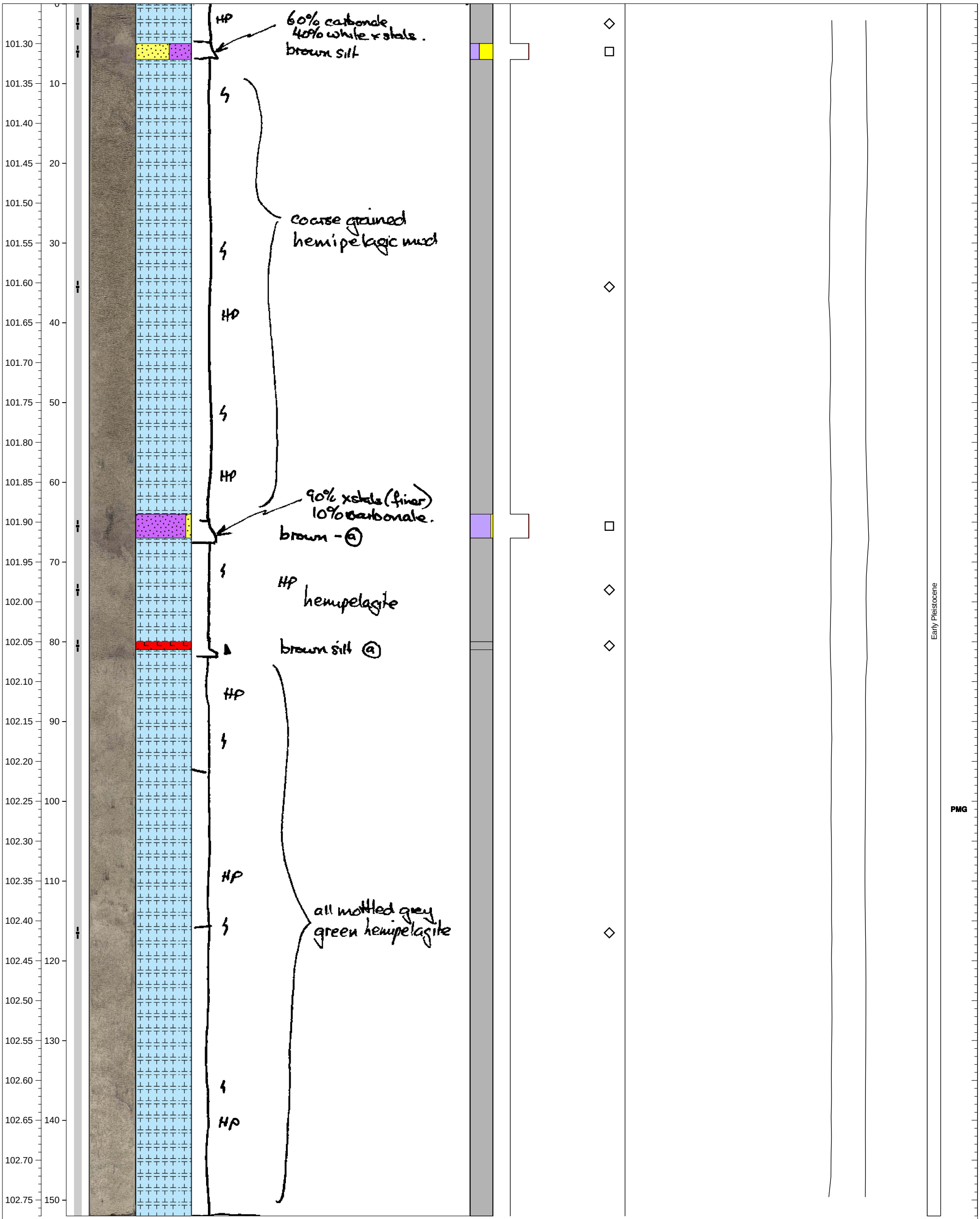
hemipelagic sediments with intercalations of ashfall? layers



Hole 340-U1395B-12H Section 4, Top of Section: 101.25 CSF-A (m)

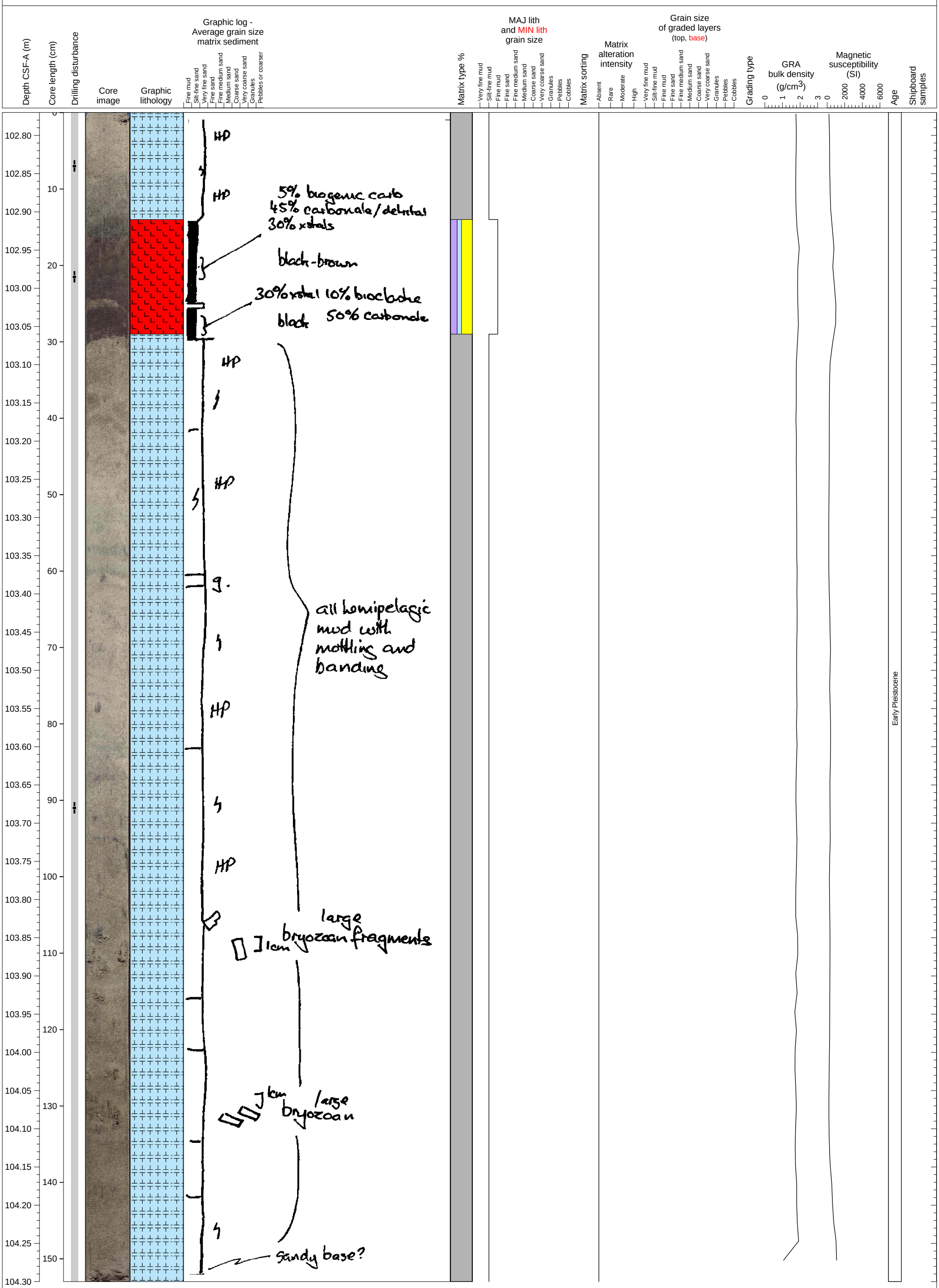
hemipelagic sediments with intercalations of ashfall? layers

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud | Silt-fine sand | Very fine sand | Fine sand | Fine medium sand | Medium sand | Coarse sand | Very coarse sand | Granules | Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud | Silt-fine mud | Fine mud | Fine sand | Fine medium sand | Medium sand | Coarse sand | Very coarse sand | Granules | Pebbles | Cobbles
Matrix sorting
Matrix alteration intensity
Absent | Rare | Moderate | High
Grain size of graded layers (top, base)
Very fine mud | Silt-fine mud | Fine mud | Fine sand | Fine medium sand | Medium sand | Coarse sand | Very coarse sand | Granules | Pebbles | Cobbles
Grading type
GRA bulk density (g/cm^3)
0 | 1 | 2 | 3
Magnetic susceptibility (SI)
0 | 2000 | 4000 | 6000
Age
Shipboard samples



Hole 340-U1395B-12H Section 5, Top of Section: 102.77 CSF-A (m)

hemipelagic sediments with intercalation of 1 ashfall? layer



Hole 340-U1395B-12H Section 6, Top of Section: 104.3 CSF-A (m)

hemipelagic sediments

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm3)
Magnetic susceptibility (SI)
Age
Shipboard samples

104.35 – 10
104.40
104.45 – 20
104.50
104.55 – 30
104.60
104.65 – 40
104.70
104.75 – 50
104.80
104.85 – 60
104.90
104.95 – 70
105.00
105.05 – 80
105.10
105.15 – 90
105.20
105.25 – 100
105.30
105.35 – 110
105.40
105.45 – 120
105.50
105.55 – 130
105.60
105.65 – 140
105.70
105.75 – 150
105.80

well sorted mixed bioclastic-volcanic sands.

homogeneous silt probably not MP.

medium to dark grey sand

mud. clast - or burrow

mottled green-grey hemipelagic mud

Note all laminations inclined with respect to core barrel. ⇒ deformed and tilted ?

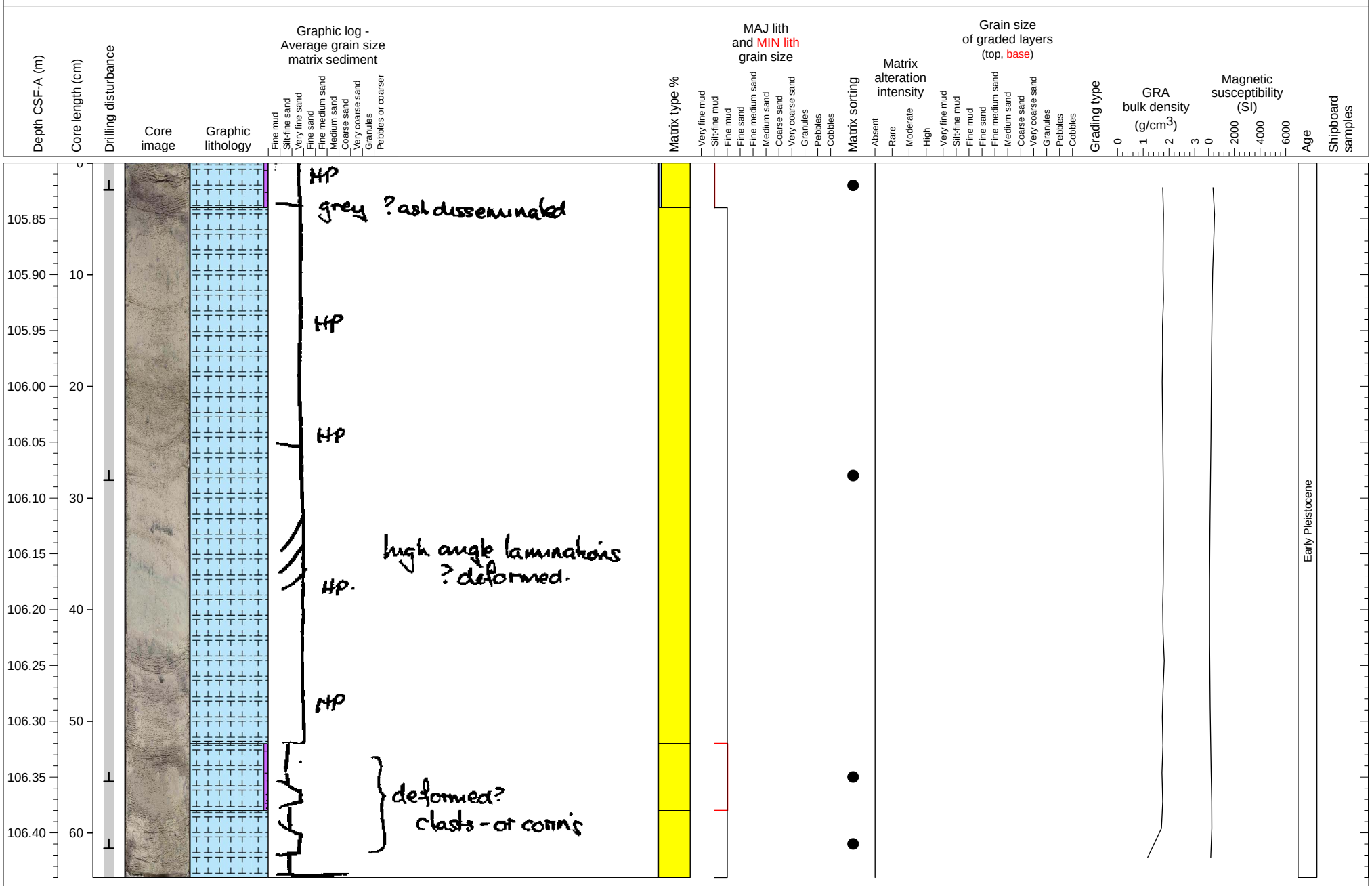
Early Pleistocene

PMG

IW

Hole 340-U1395B-12H Section 7, Top of Section: 105.8 CSF-A (m)

Basically hemipelagic sediments. Top unit contains a few abundant volcaniclastic material.



Hole 340-U1395B-12H Section CC, Top of Section: 106.44 CSF-A (m)

Hemipelagic clay. PAL sample from section base.

Hole 340-U1395B-13H Section 1, Top of Section: 106.2 CSF-A (m)

Layering hemipelagic sediments interlayered a potential tephra layer. Lower 1 m is deformed, which is continuous from below section.

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm^3)
0
1
2
3
Magnetic susceptibility (SI)
0
2000
4000
6000
Age
Shipboard samples

106.25 106.30 106.35 106.40 106.45 106.50 106.55 106.60 106.65 106.70 106.75 106.80 106.85 106.90 106.95 107.00 107.05 107.10 107.15 107.20 107.25 107.30 107.35 107.40 107.45 107.50 107.55 107.60 107.65 107.70

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

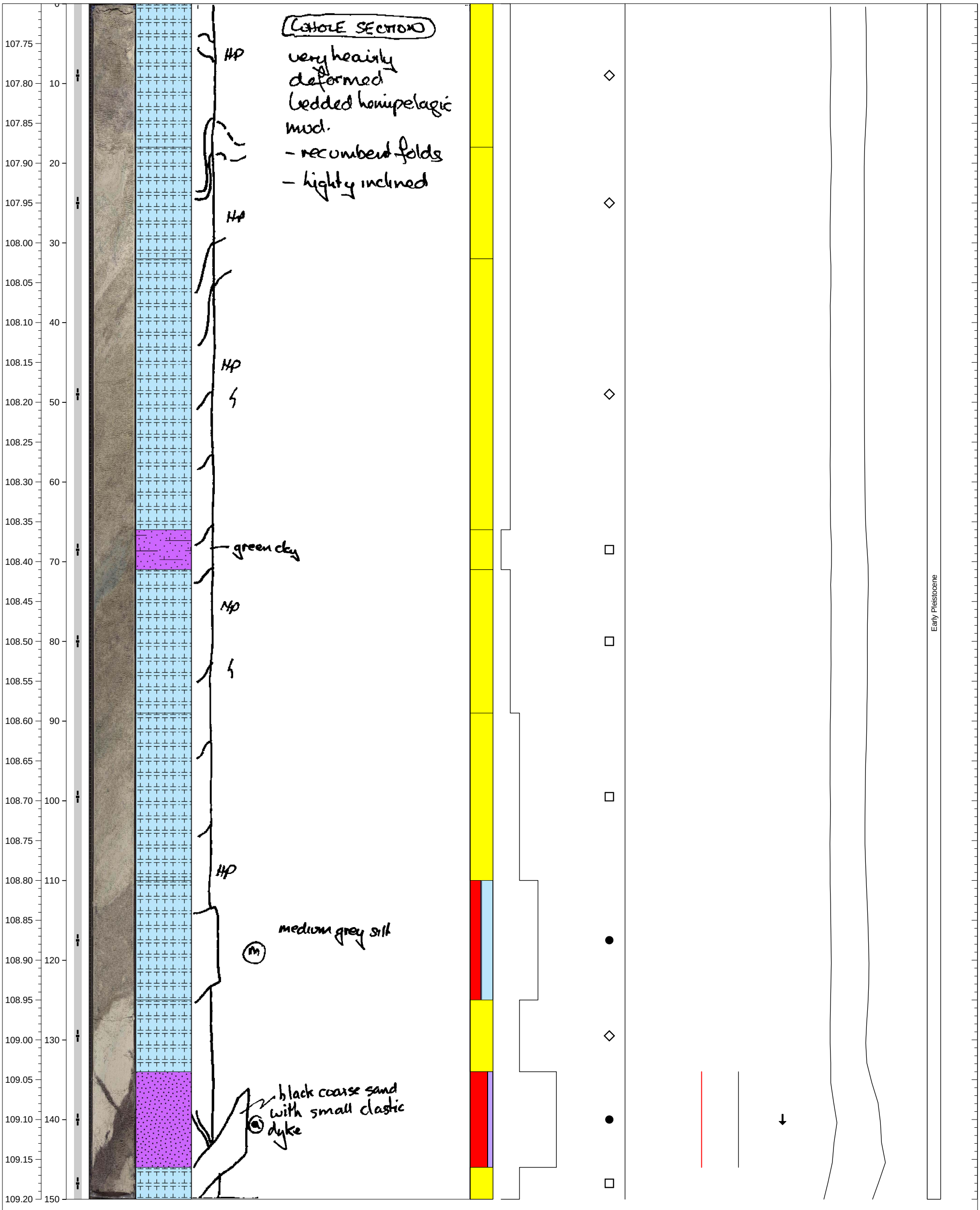
HP?
HP?
HP?
HP?
grey ~ 9?
hemipelagic mud with grey zones that may be disseminated ash ?
← flat lying sharp top
contorted and deformed bedding
black sand.
10% massive lave
85%
clay clast

PMG
Early Pleistocene

Hole 340-U1395B-13H Section 2, Top of Section: 107.7 CSF-A (m)

*** Math Text Error ***

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm3)
Magnetic susceptibility (SI)
Age
Shipboard samples



Hole 340-U1395B-13H Section 3, Top of Section: 109.2 CSF-A (m)

Hemipelagic clay with varying volcaniclastic input. Small deformed volcaniclastic mud layer. Clastic dikes present throughout.

Depth CSF-A (m)

Core length (cm)

Drilling disturbance

Core image

Graphic lithology

Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser

Matrix type %

MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles

Matrix sorting

Matrix alteration intensity
Absent
Rare
Moderate
High

Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles

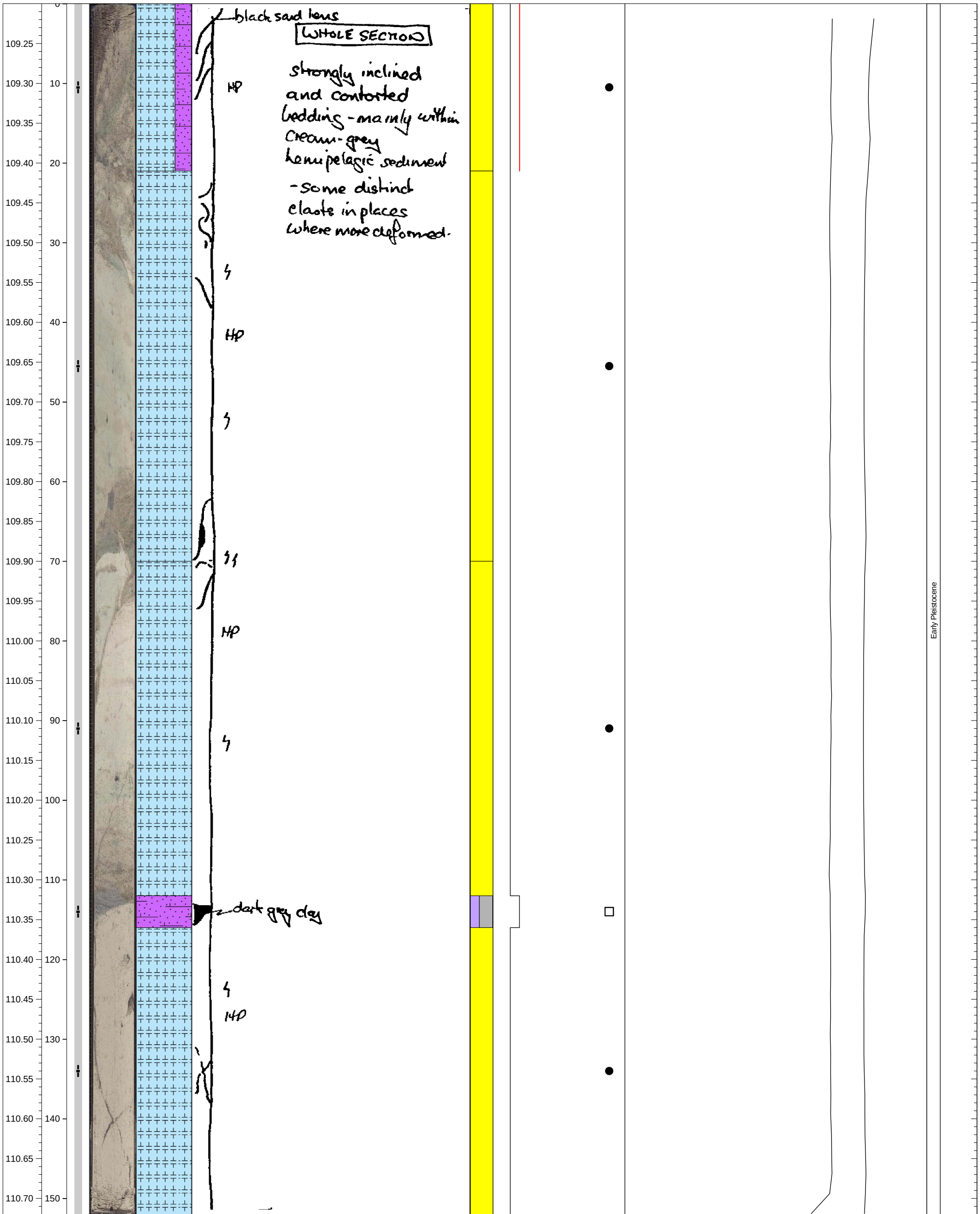
Grading type

GRA bulk density (g/cm^3)
0
1
2
3

Magnetic susceptibility (SI)
0
2000
4000
6000

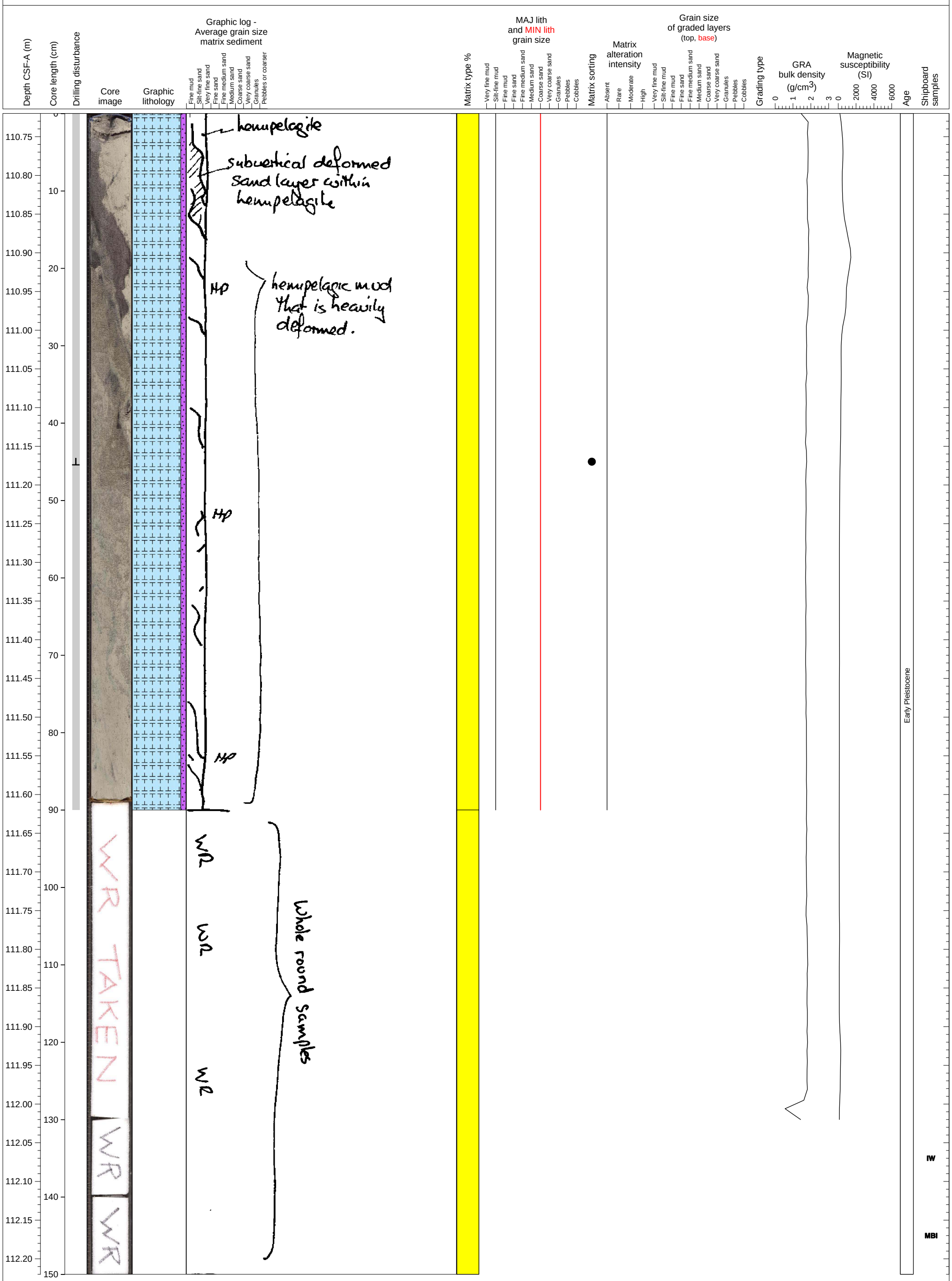
Age

Shipboard samples



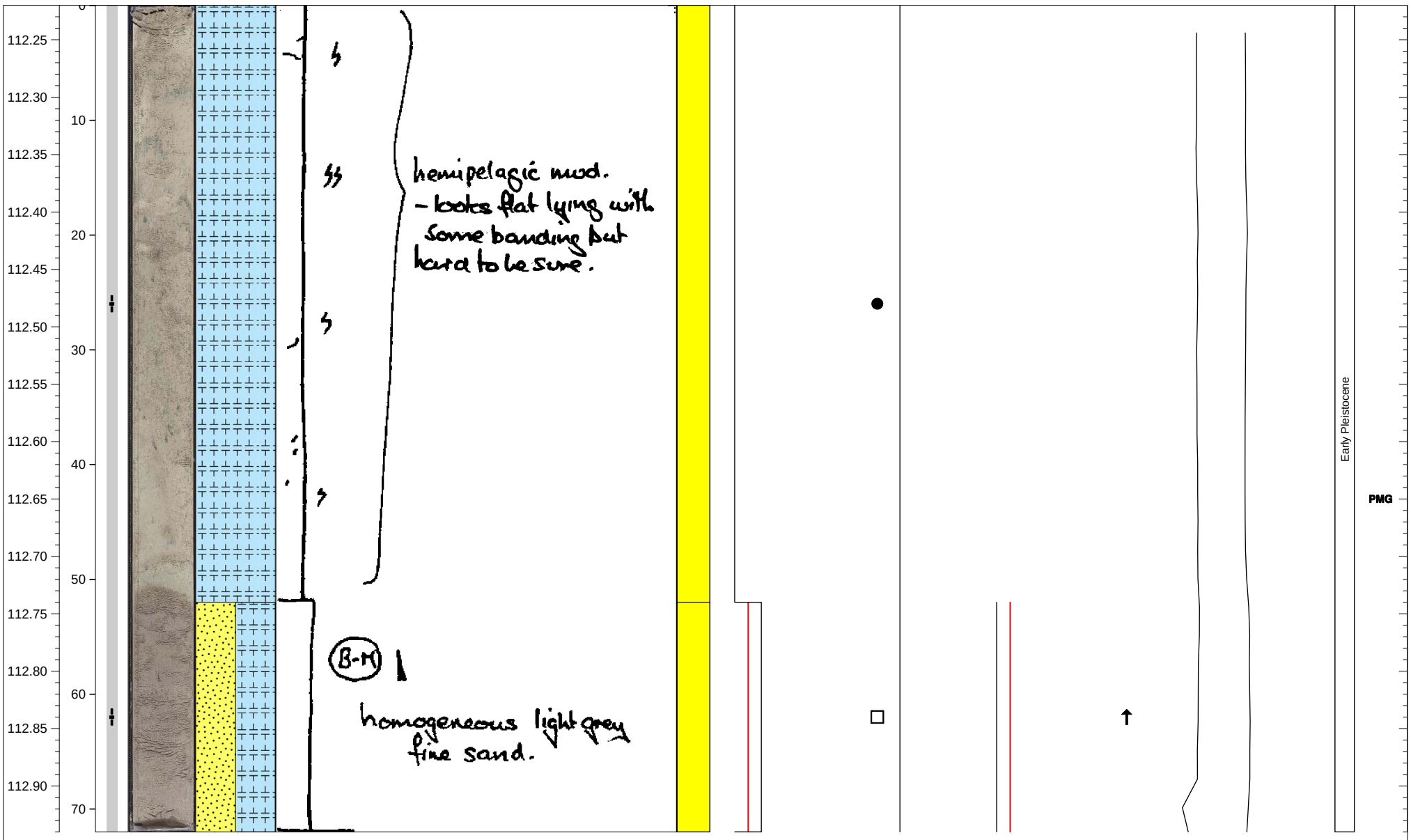
Hole 340-U1395B-13H Section 4, Top of Section: 110.72 CSF-A (m)

Hemipelagic clay with coarse volcaniclastic sand introduced through clastic dikes that are present throughout core. WR taken from section base.



Hole 340-U1395B-13H Section 5, Top of Section: 112.22 CSF-A (m)

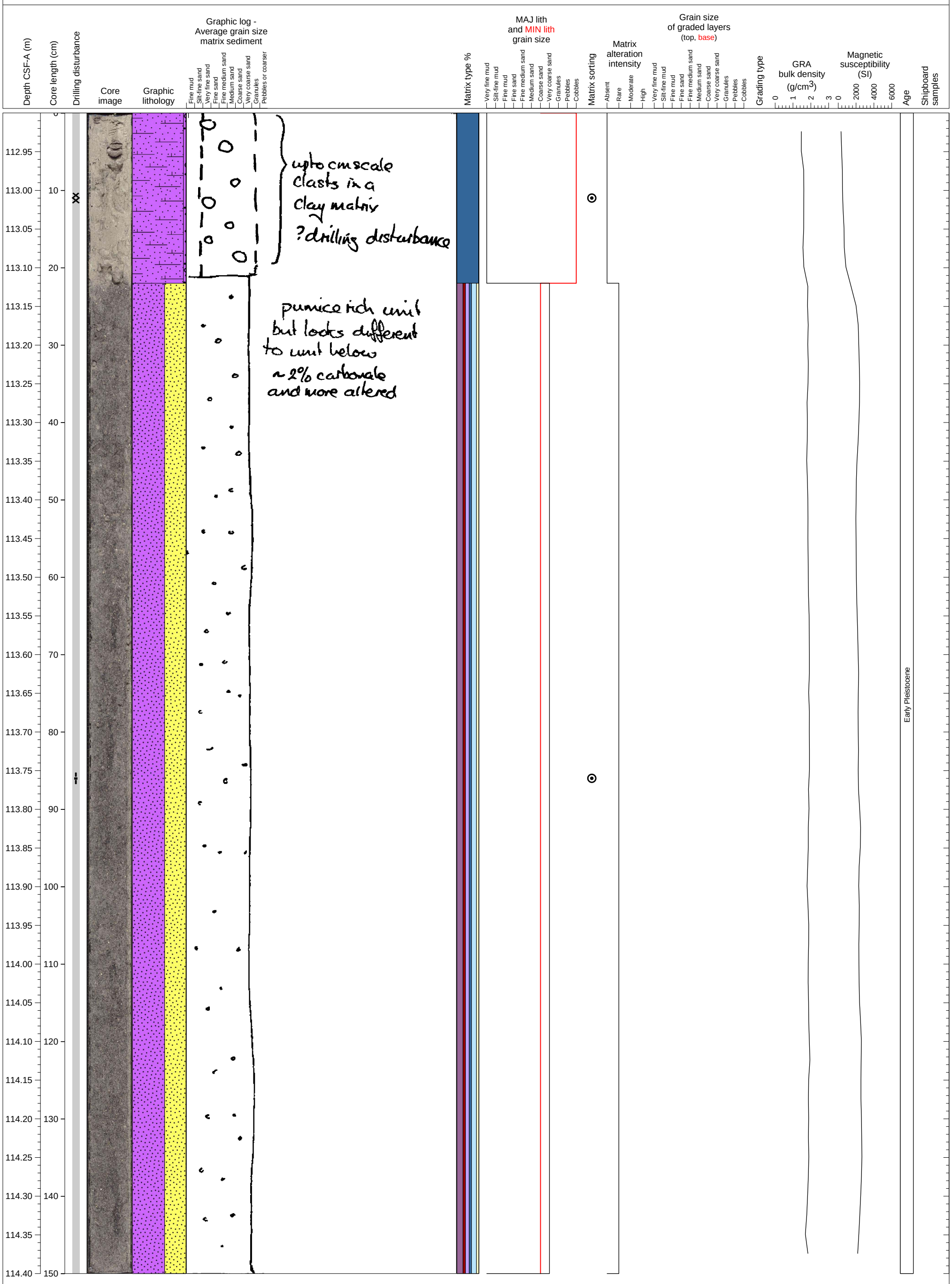
Hemipelagic clay overlying fining upward calcareous sequence.



U1395B-13H-CC ALL TO PALEO

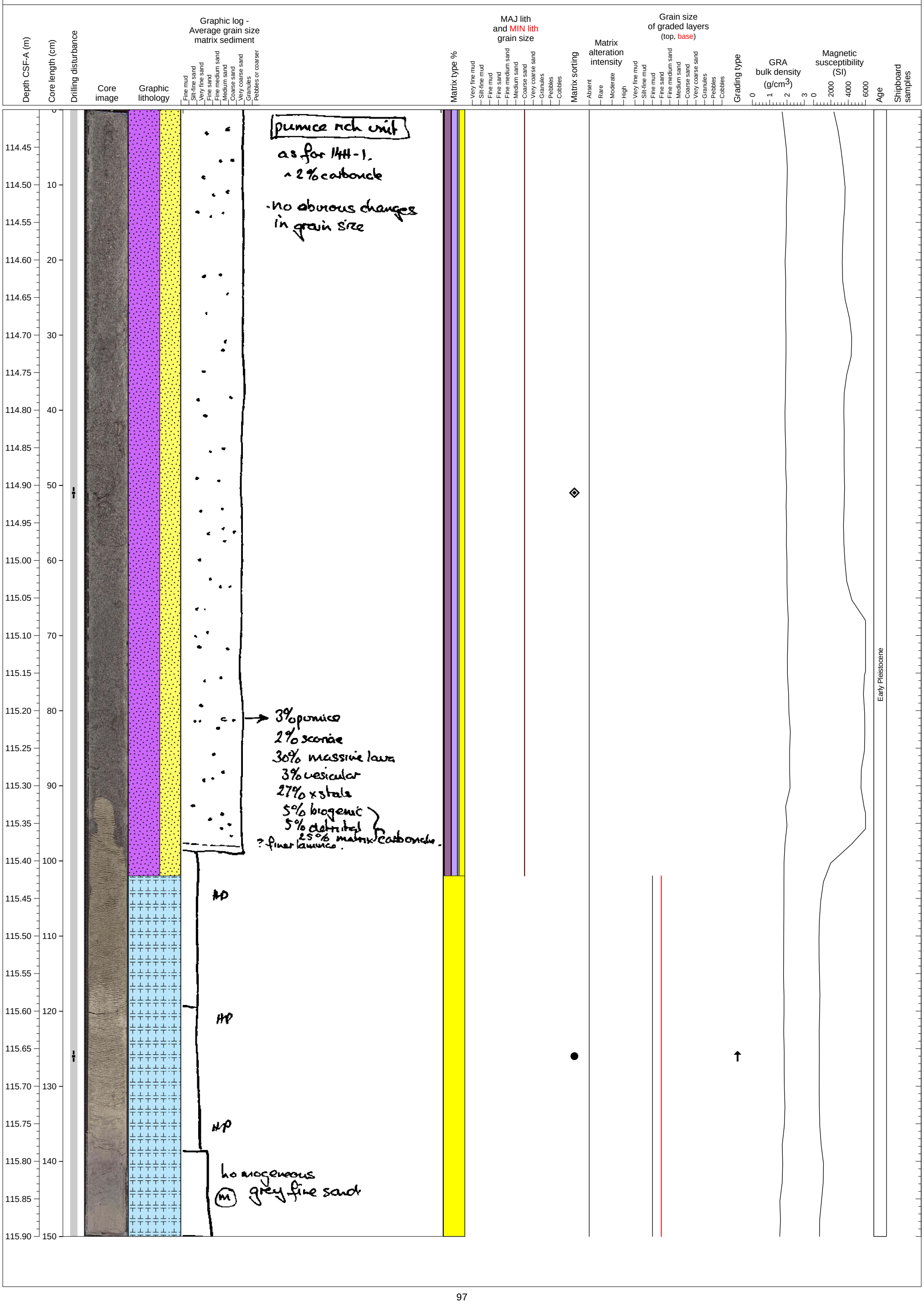
Hole 340-U1395B-14H Section 1, Top of Section: 112.9 CSF-A (m)

A thick volcaniclastic turbidite sequence (1.3m) overlain by hemipelagic fines



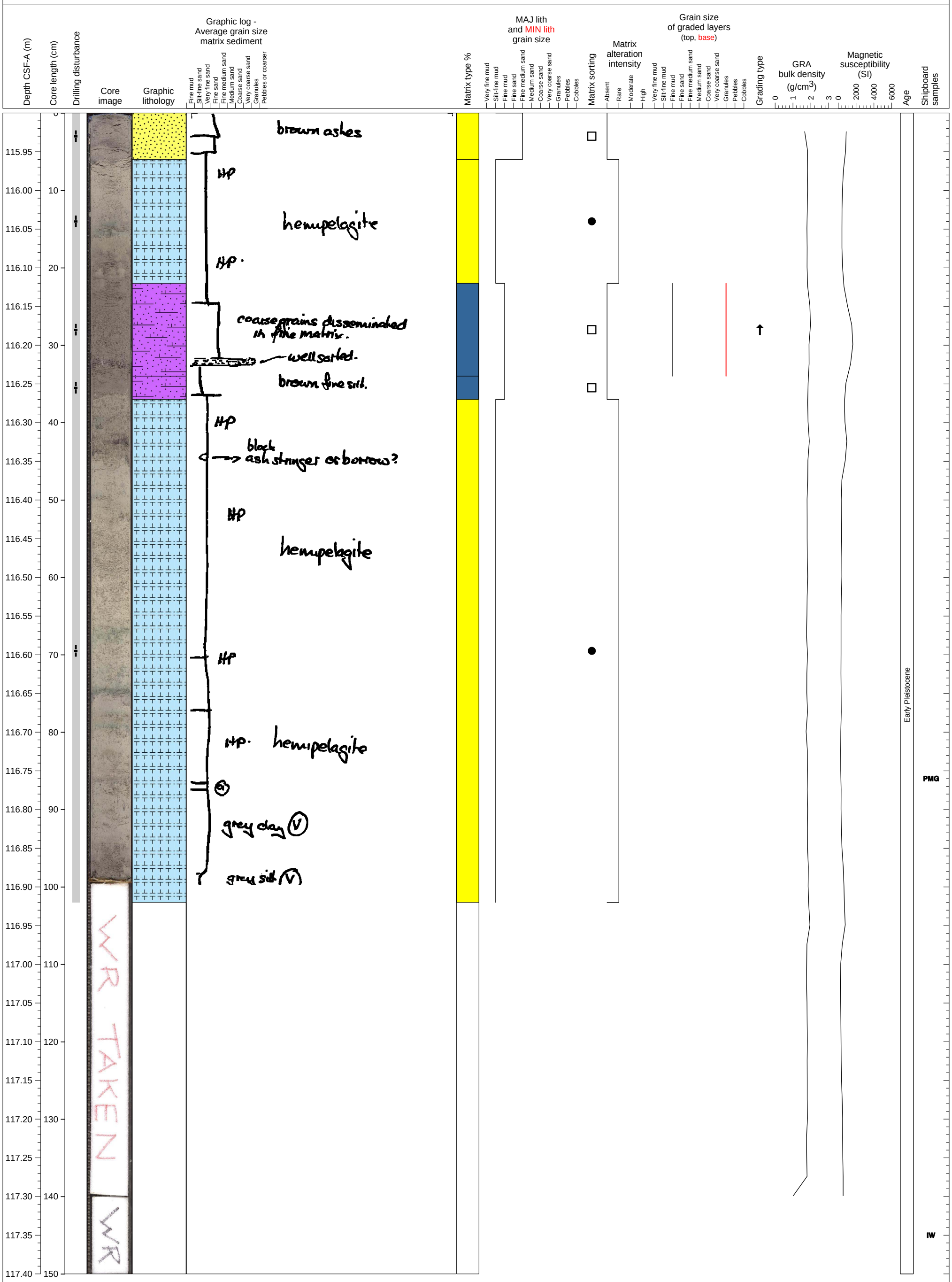
Hole 340-U1395B-14H Section 2, Top of Section: 114.4 CSF-A (m)

Coarse volcaniclastic/bioclastic sand overlying fining upward hemipelagic clay.



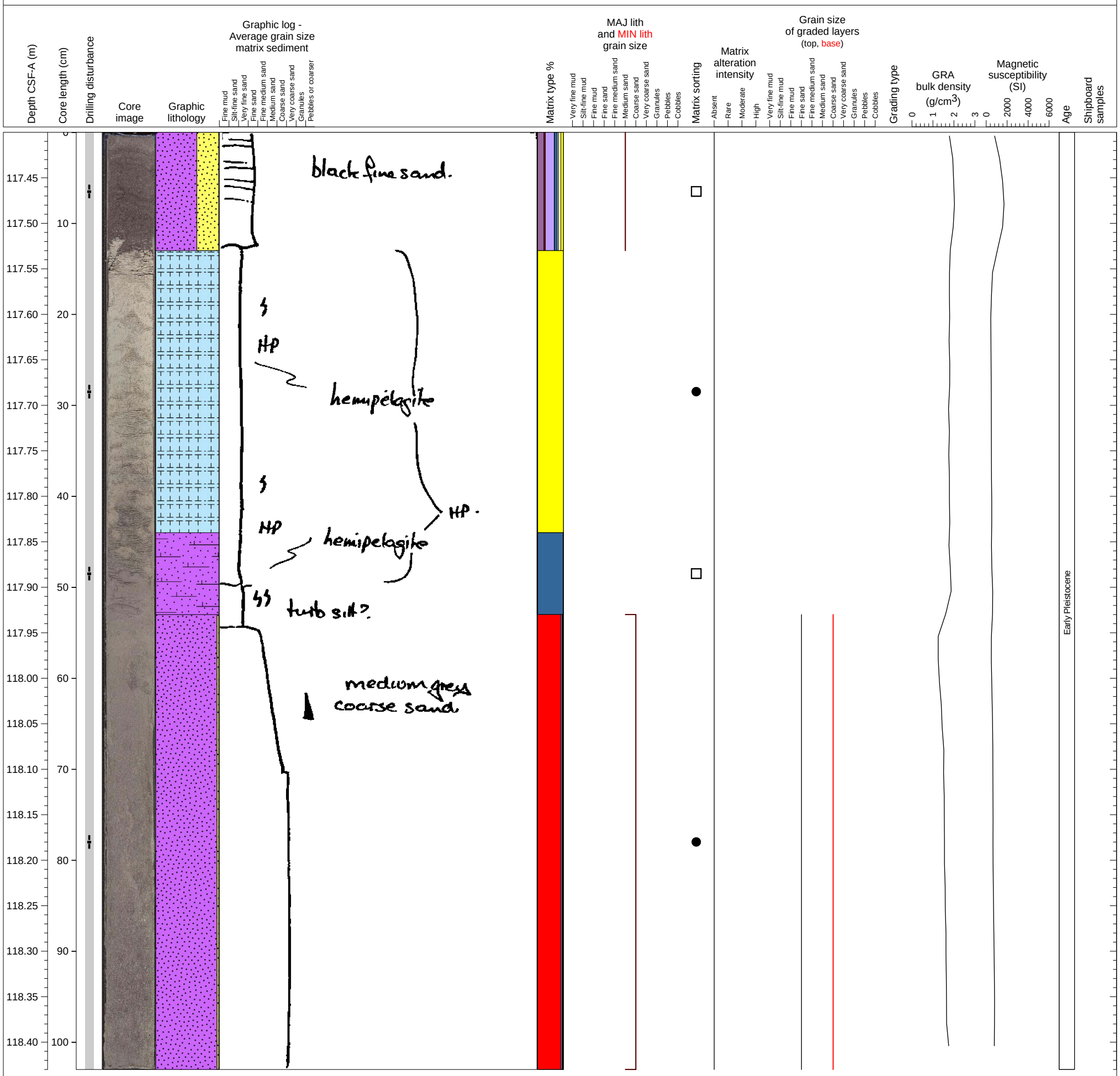
Hole 340-U1395B-14H Section 3, Top of Section: 115.9 CSF-A (m)

Hemipelagic clay interlayered with volcaniclastic unit fining upwards from granulaes to mud. WR taken from section base.



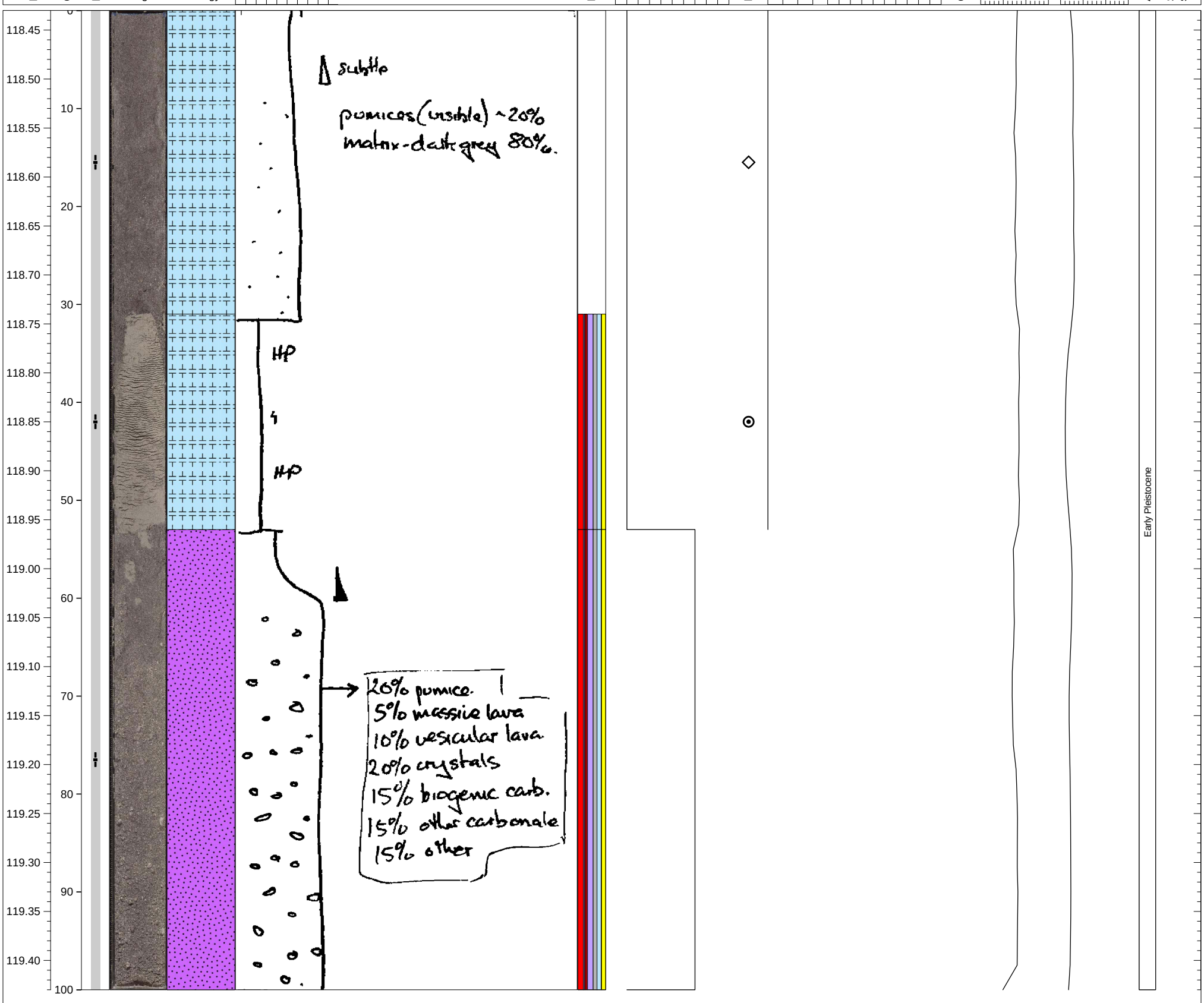
Hole 340-U1395B-14H Section 4, Top of Section: 117.4 CSF-A (m)

Upper part is sandy volcaniclastic turbidite, continuing from the previous section, and the lower part is pumice-rich turbidite with normal grading.



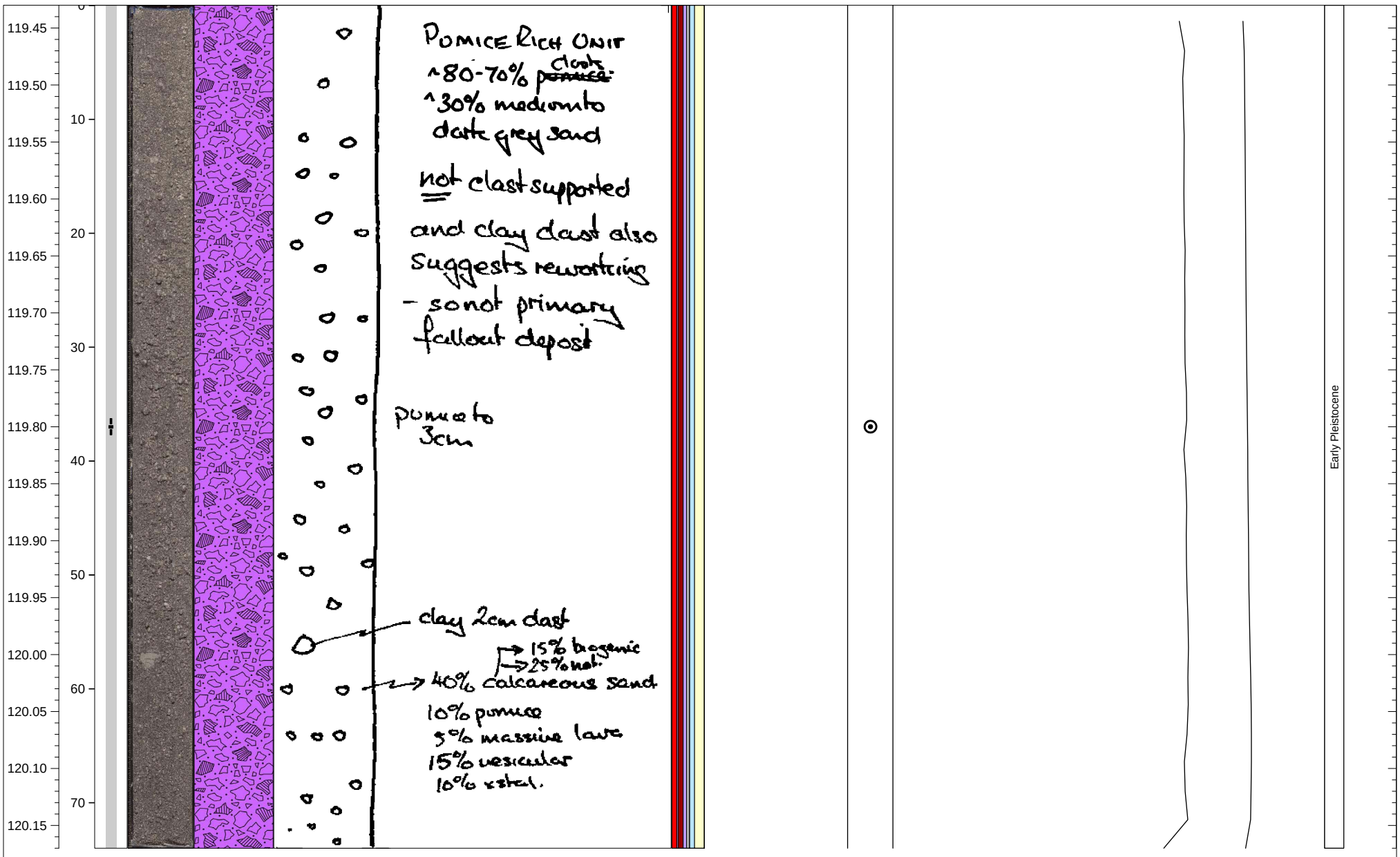
Hole 340-U1395B-14H Section 5, Top of Section: 118.43 CSF-A (m)

volcaniclastic turbidite within hemipelagite



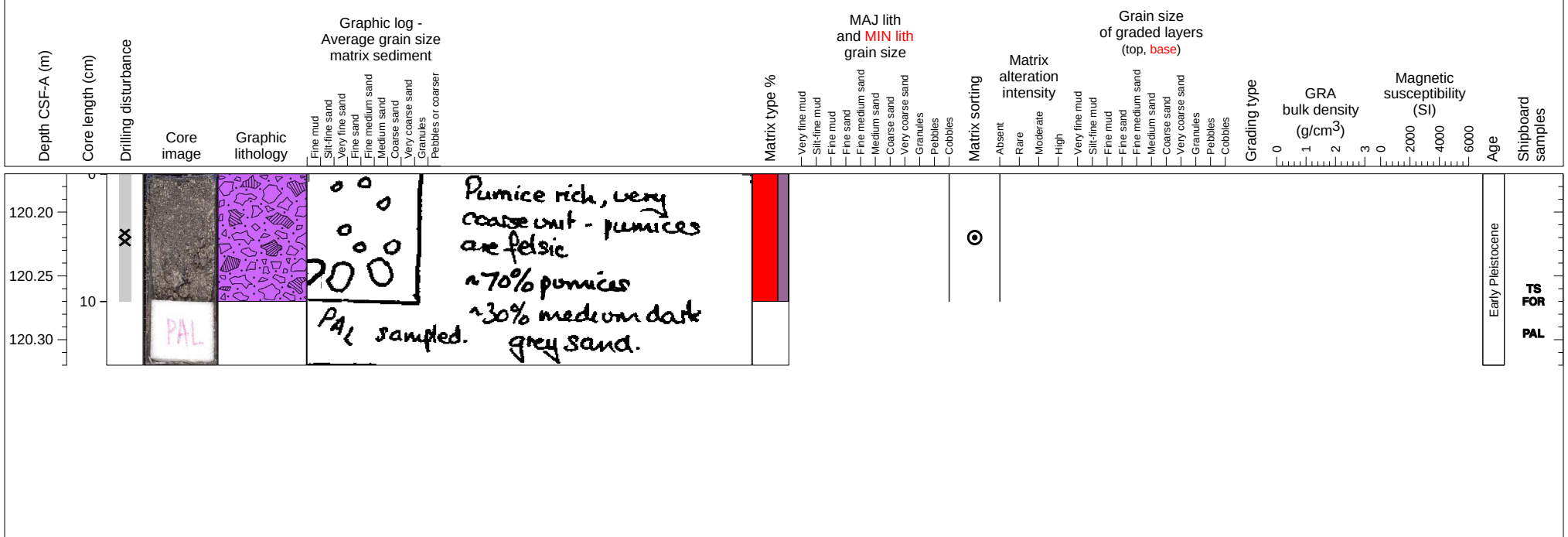
Hole 340-U1395B-14H Section 6, Top of Section: 119.43 CSF-A (m)

part of coarse-grained volcaniclastic turbidite



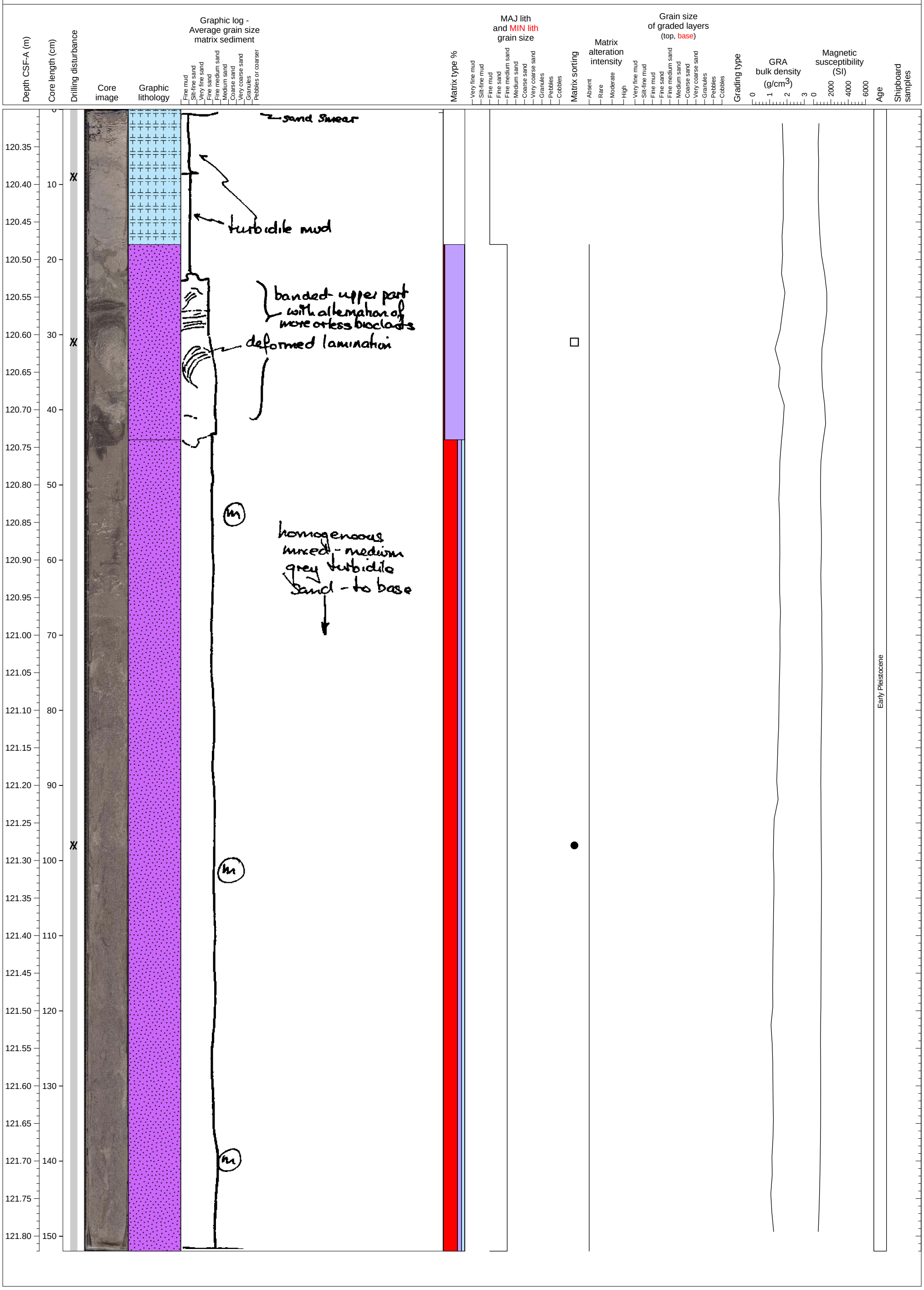
Hole 340-U1395B-14H Section CC, Top of Section: 120.17 CSF-A (m)

volcaniclastic breccia in core catcher



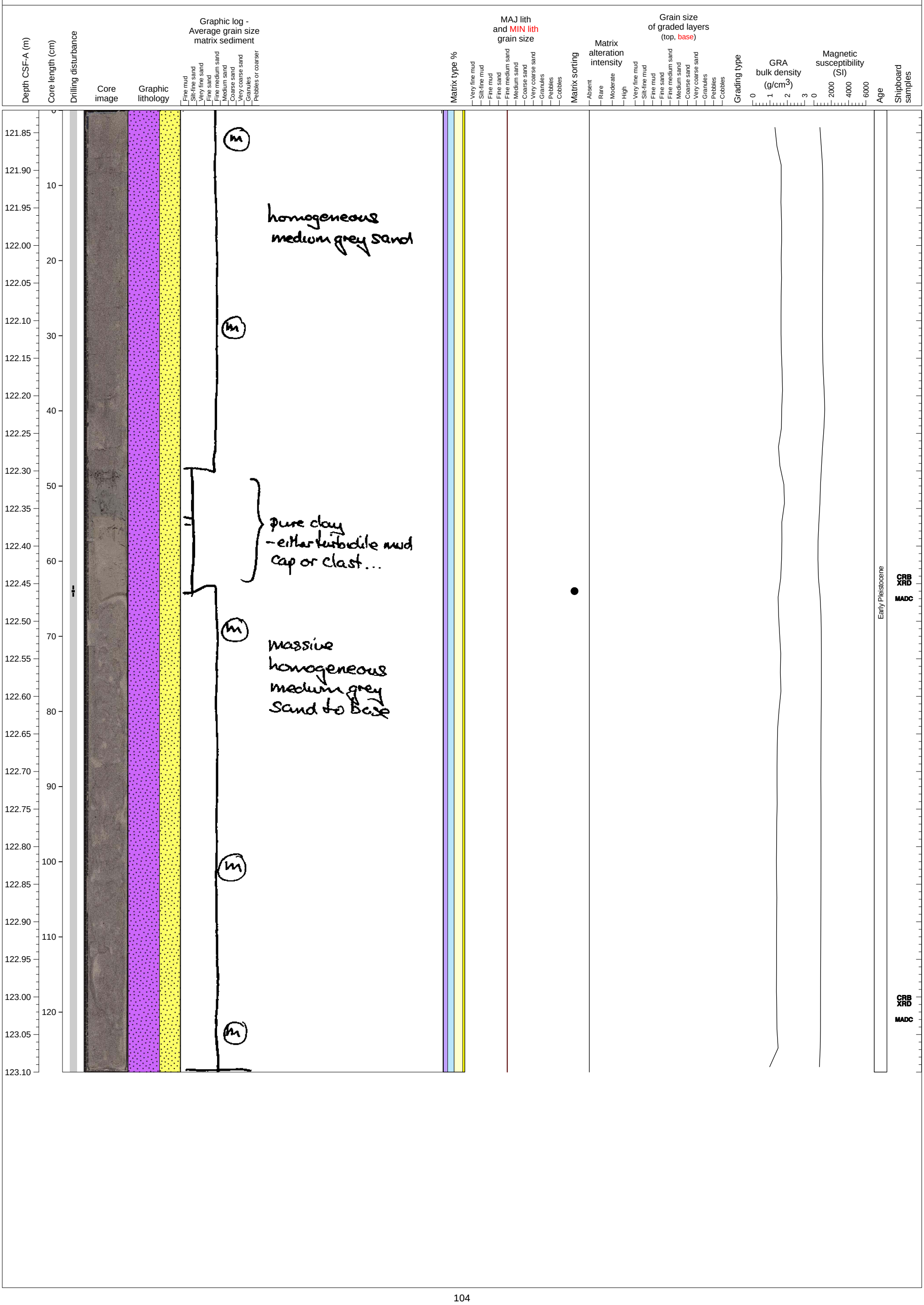
Hole 340-U1395B-15H Section 1, Top of Section: 120.3 CSF-A (m)

This section has a well sorted volcanic sand which is deemed as a fallout tephra layer from 18 cm to 44 cm. Most part are also volcanic sand but about 15 % biogenic materials are contained.



Hole 340-U1395B-15H Section 2, Top of Section: 121.82 CSF-A (m)

Massive volcaniclastic/bioclastic sand unit with 2 large mud clasts.



Hole 340-U1395B-15H Section 3, Top of Section: 123.1 CSF-A (m)

mixture of calcareous and volcaniclastic sand through whole section.

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm^3)
Magnetic susceptibility (SI)
Age
Shipboard samples

WHOLE SECTION

homogeneous, massive, medium grey mixed volcaniclastic-bioclastic sandy turbidite.

↓

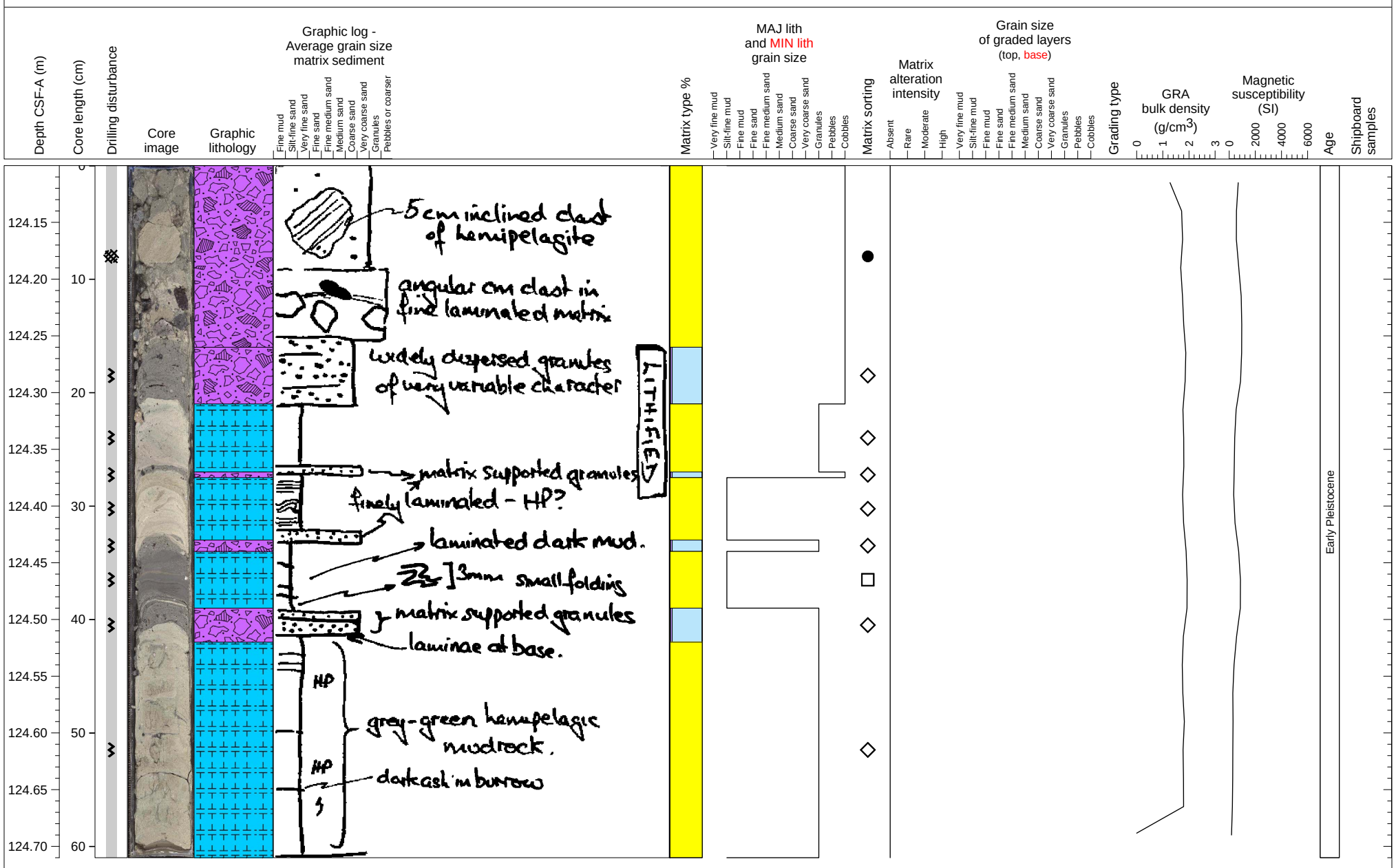
Same to base

Early Pleistocene

U1395B-15H-CC ALL TO PALEO

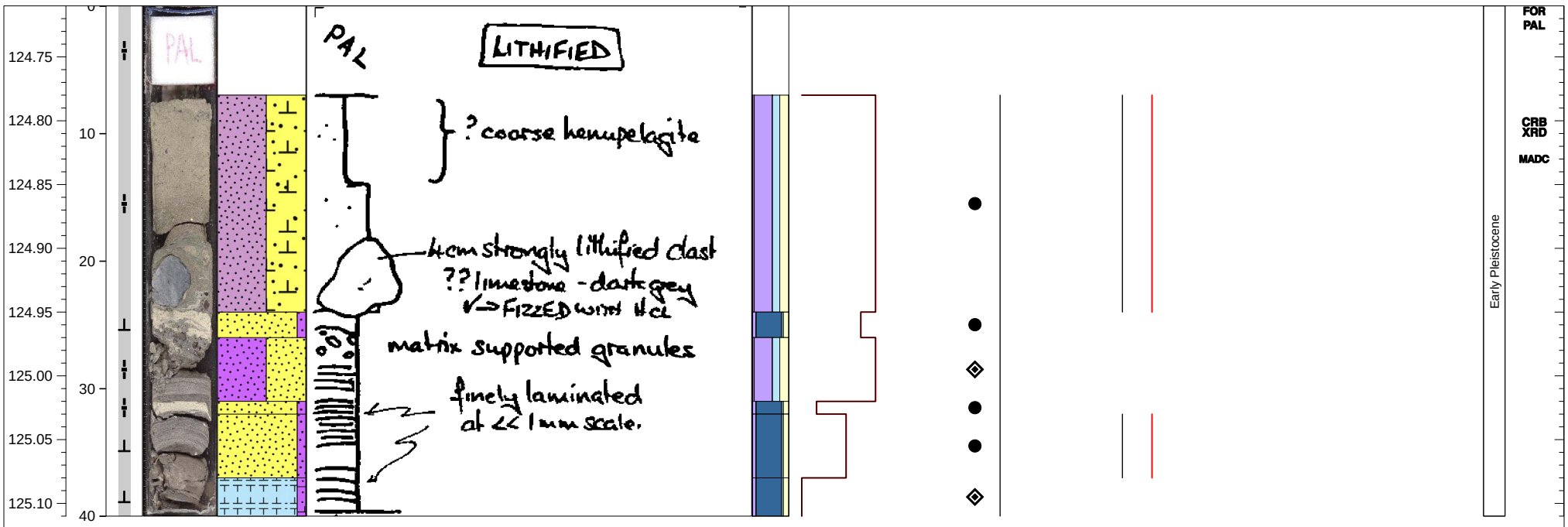
Hole 340-U1395B-16X Section 1, Top of Section: 124.1 CSF-A (m)

This section contains four volcanic breccia layers containing granule-pebble clasts of gray color and the top of the section is destroyed volcanic breccia containing pebble size andesite.



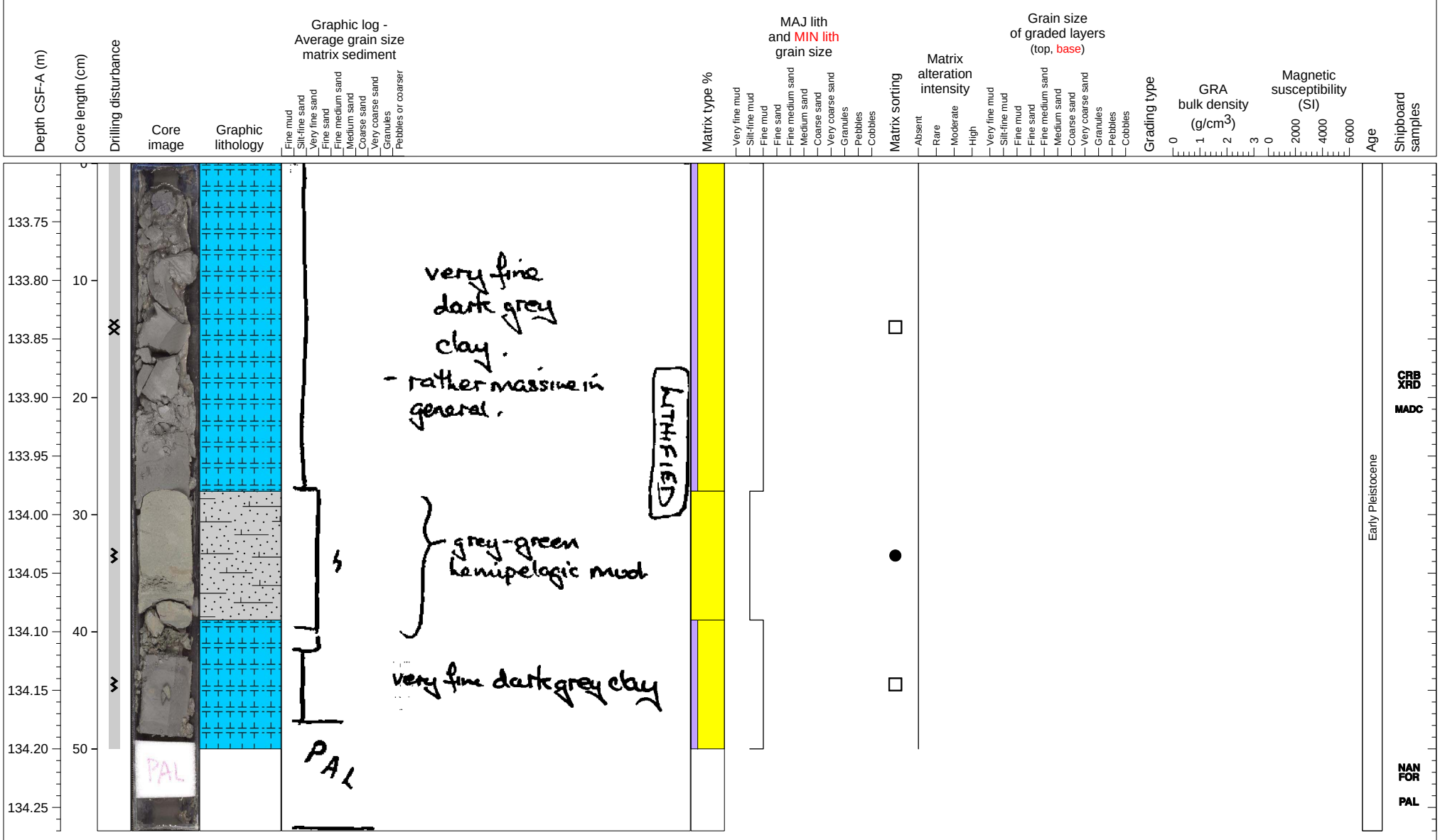
Hole 340-U1395B-16X Section CC, Top of Section: 124.71 CSF-A (m)

3 normal graded units with pebble size clasts, and 12 thin parellel laminations.



Hole 340-U1395B-17X Section CC, Top of Section: 133.7 CSF-A (m)

Weakly lithified lime mudstone interlayered with more strongly lithified mudstone. PAL sample from base of section.

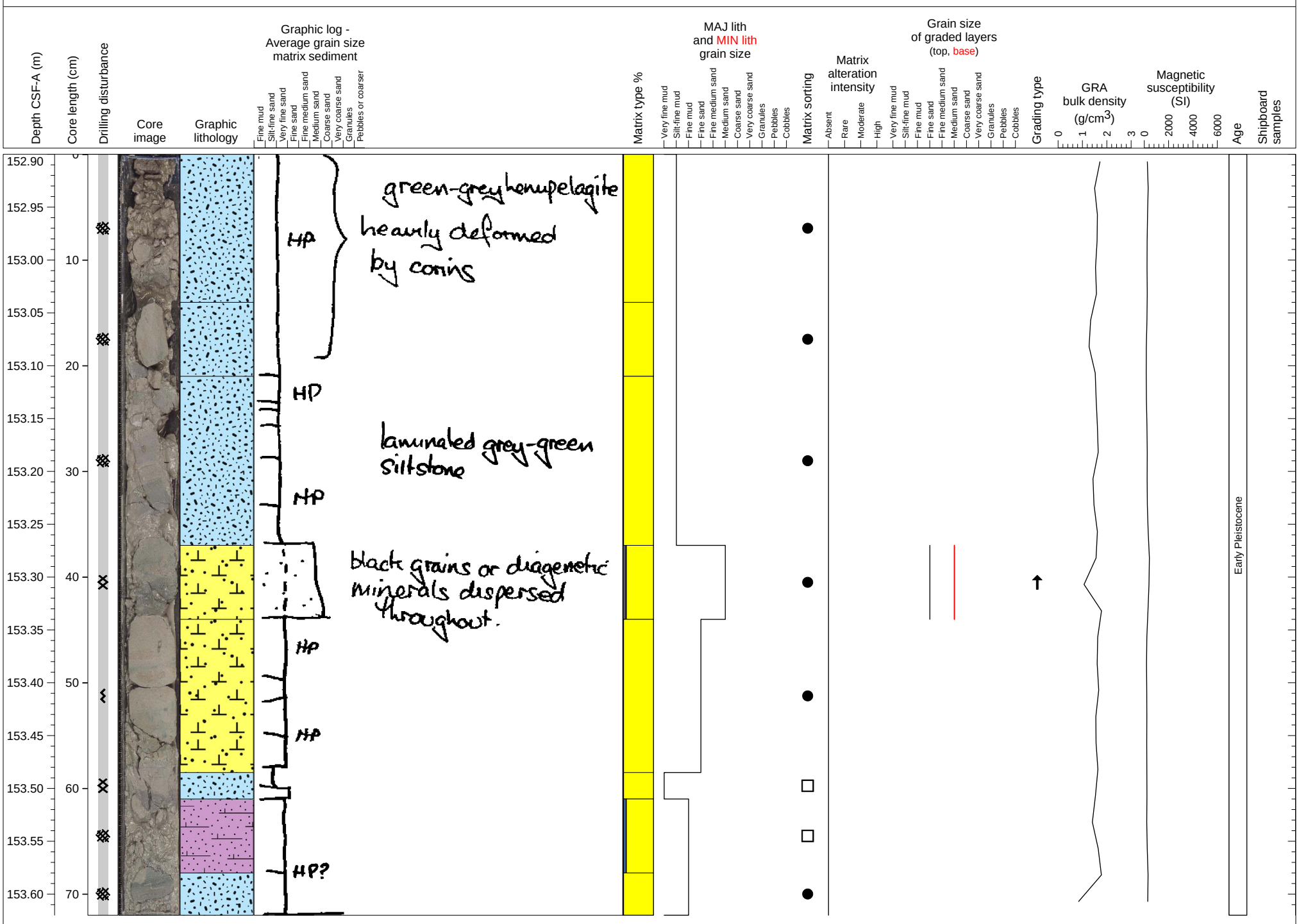


Hole 340-U1395B-18X Section CC, Top of Section: 143.3 CSF-A (m)

volcaniclastic sandstone in core cather

Hole 340-U1395B-19X Section 1, Top of Section: 152.9 CSF-A (m)

This section is highly destroyed by drilling disturbance, and basically composed of calcareous sand-silt-mud stone. In the lower part very fine mud stone are recognized.

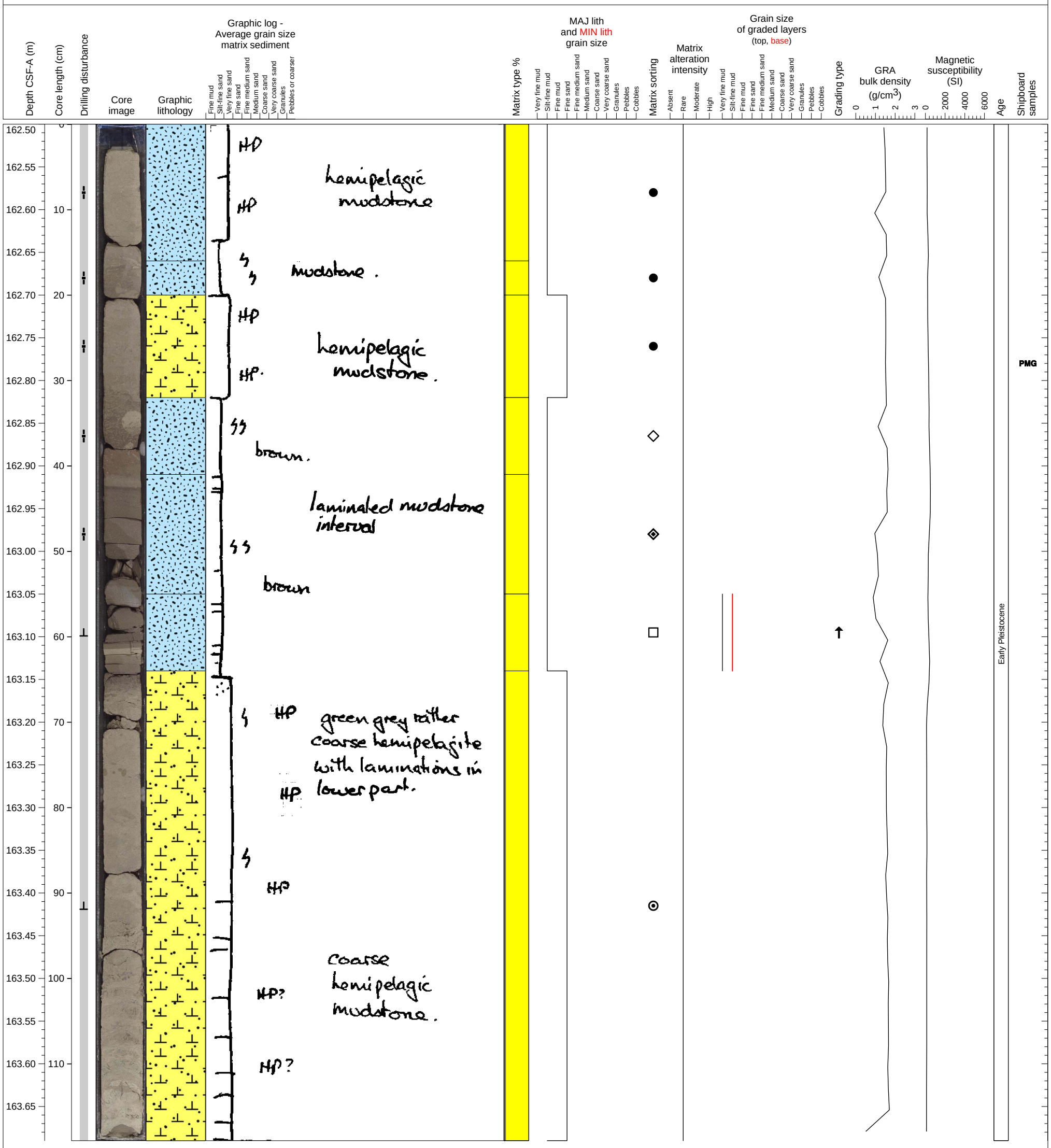


Hole 340-U1395B-19X Section CC, Top of Section: 153.62 CSF-A (m)

Consolidated hemipelagic layer on volcaniclastic silt stone with normal grading and cross-lamination

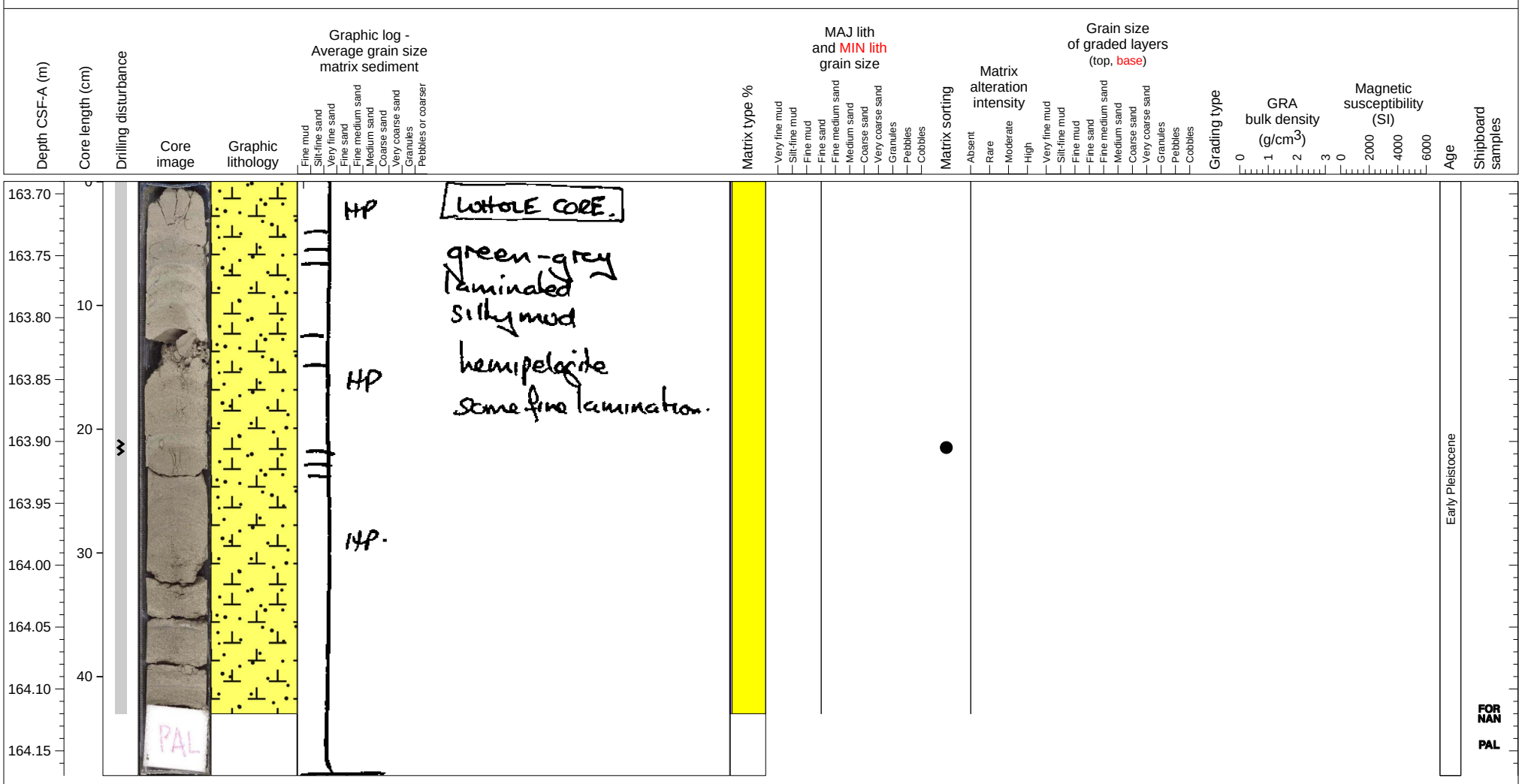
Hole 340-U1395B-20X Section 1, Top of Section: 162.5 CSF-A (m)

Alternation of commonly to strongly bioturbated calcareous sand-silt stone and very well sorted parellel thin layers (ash fall origin ?).



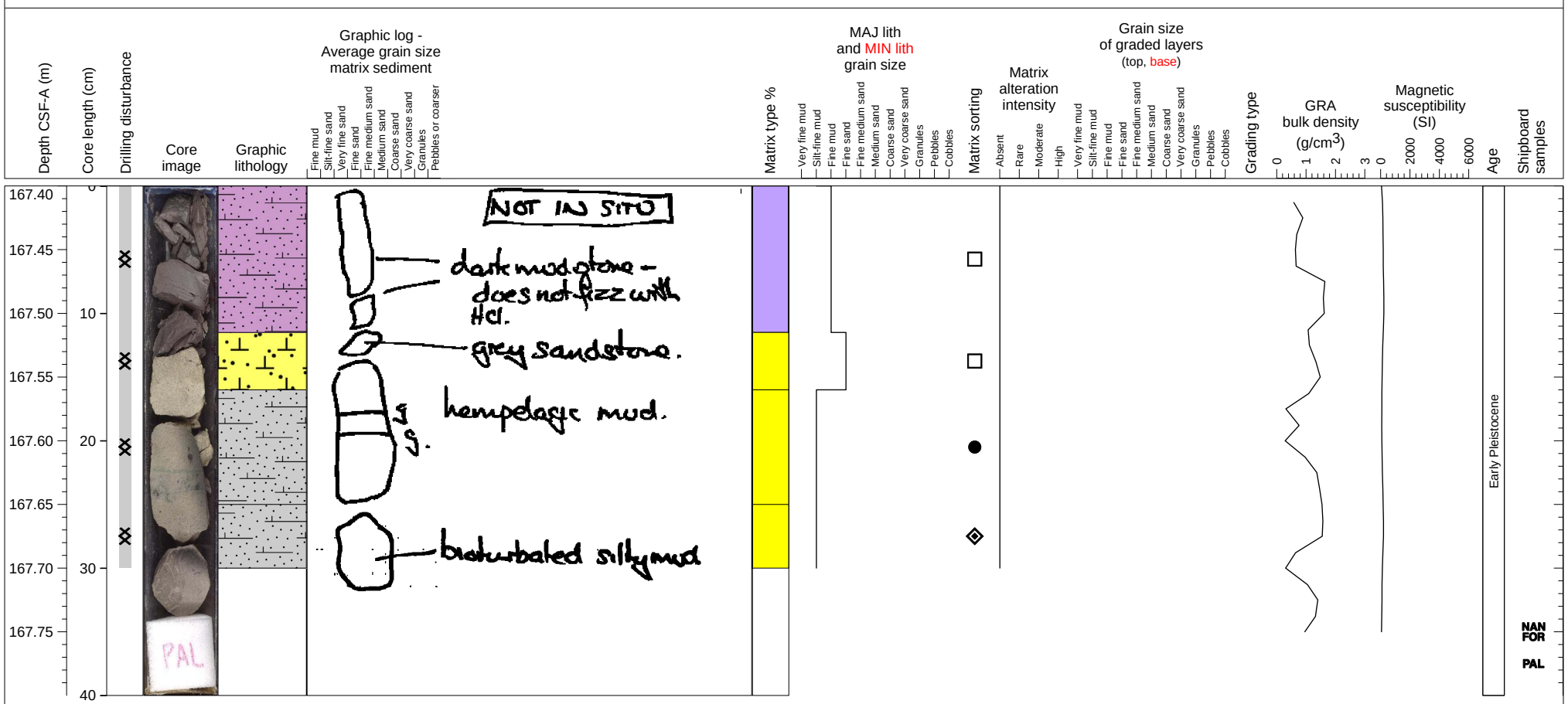
Hole 340-U1395B-20X Section CC, Top of Section: 163.69 CSF-A (m)

Block of calcereous sandstone with some calcereous mudstone laminations at the base. PAL sample taken from bottom of section.



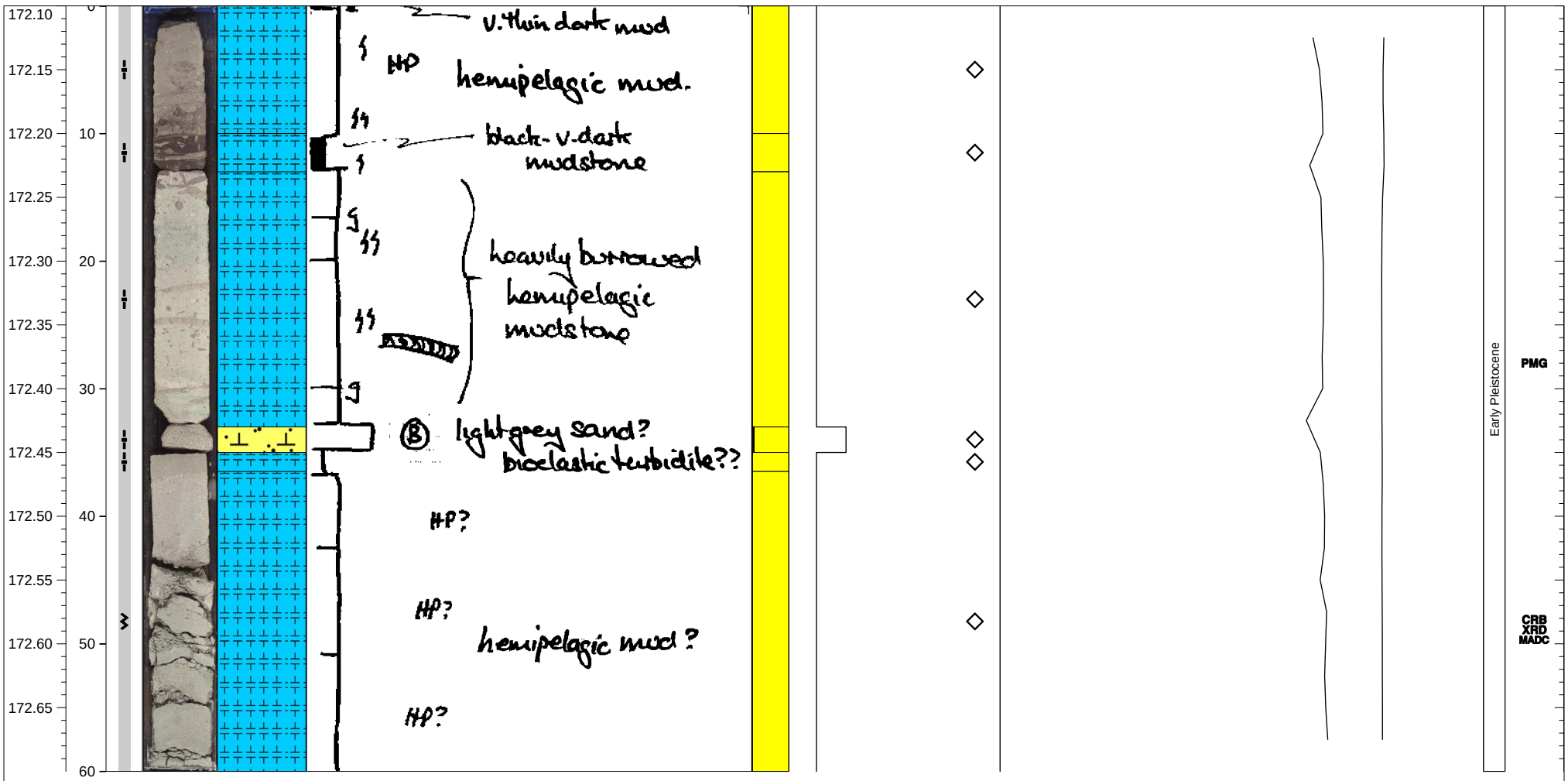
Hole 340-U1395B-21X Section 1, Top of Section: 167.4 CSF-A (m)

Fine grained volcaniclastic mudstone overlying large pebbles of heavily bioturbated mudstone and calcereous sandstone. PAL sample from base of section.



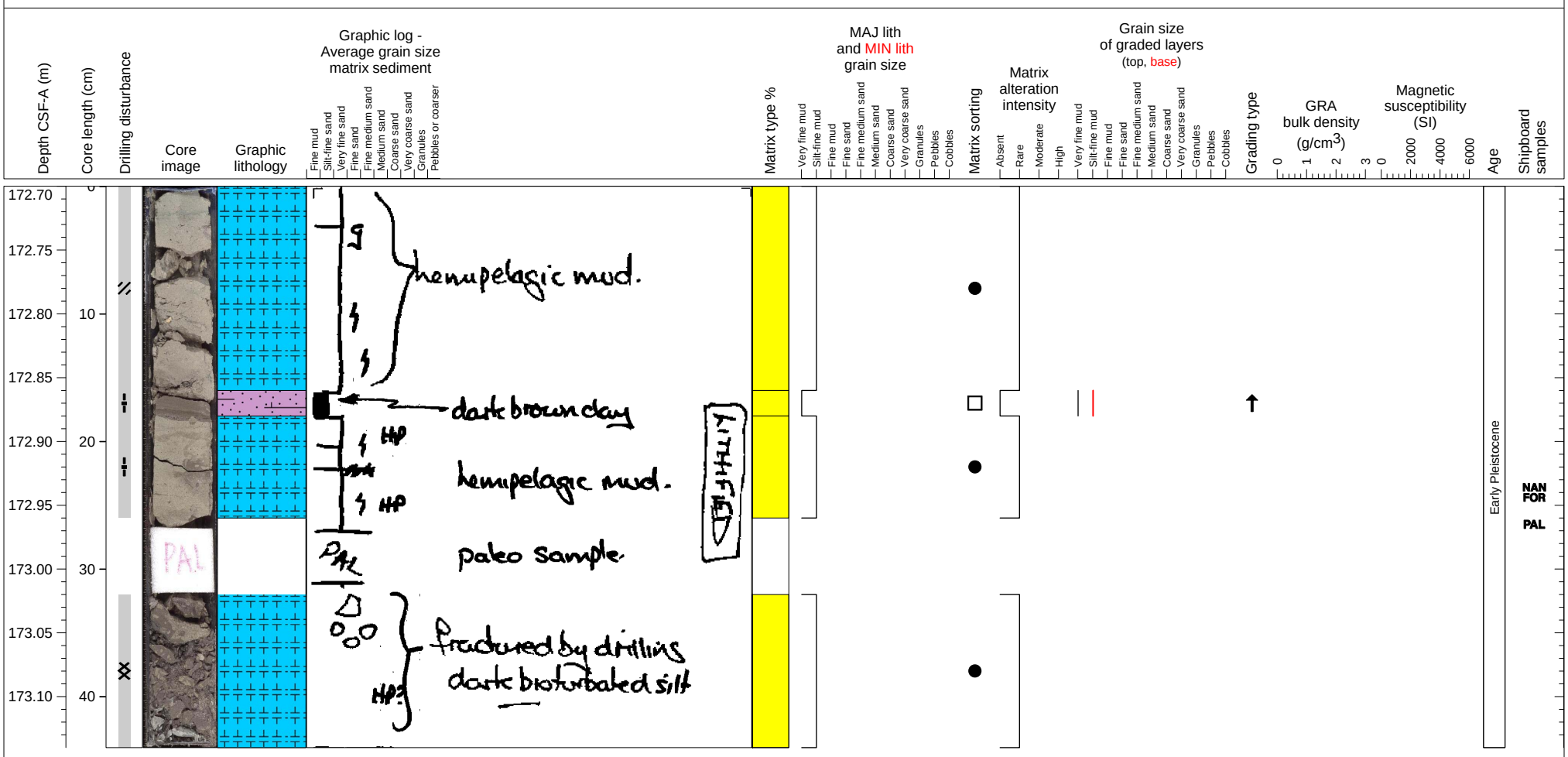
Hole 340-U1395B-22X Section 1, Top of Section: 172.1 CSF-A (m)

Calcareous mudstone with intercalation of sandstone. Pervasive bioturbation. Volcaniclastic layer absent. Large foraminifera are observed (Globigerinoides sacculifer).



Hole 340-U1395B-22X Section CC, Top of Section: 172.7 CSF-A (m)

Strongly bioturbated lime mud stone interbed thin (2 cm) volcanic mud stone (ash fall ?).

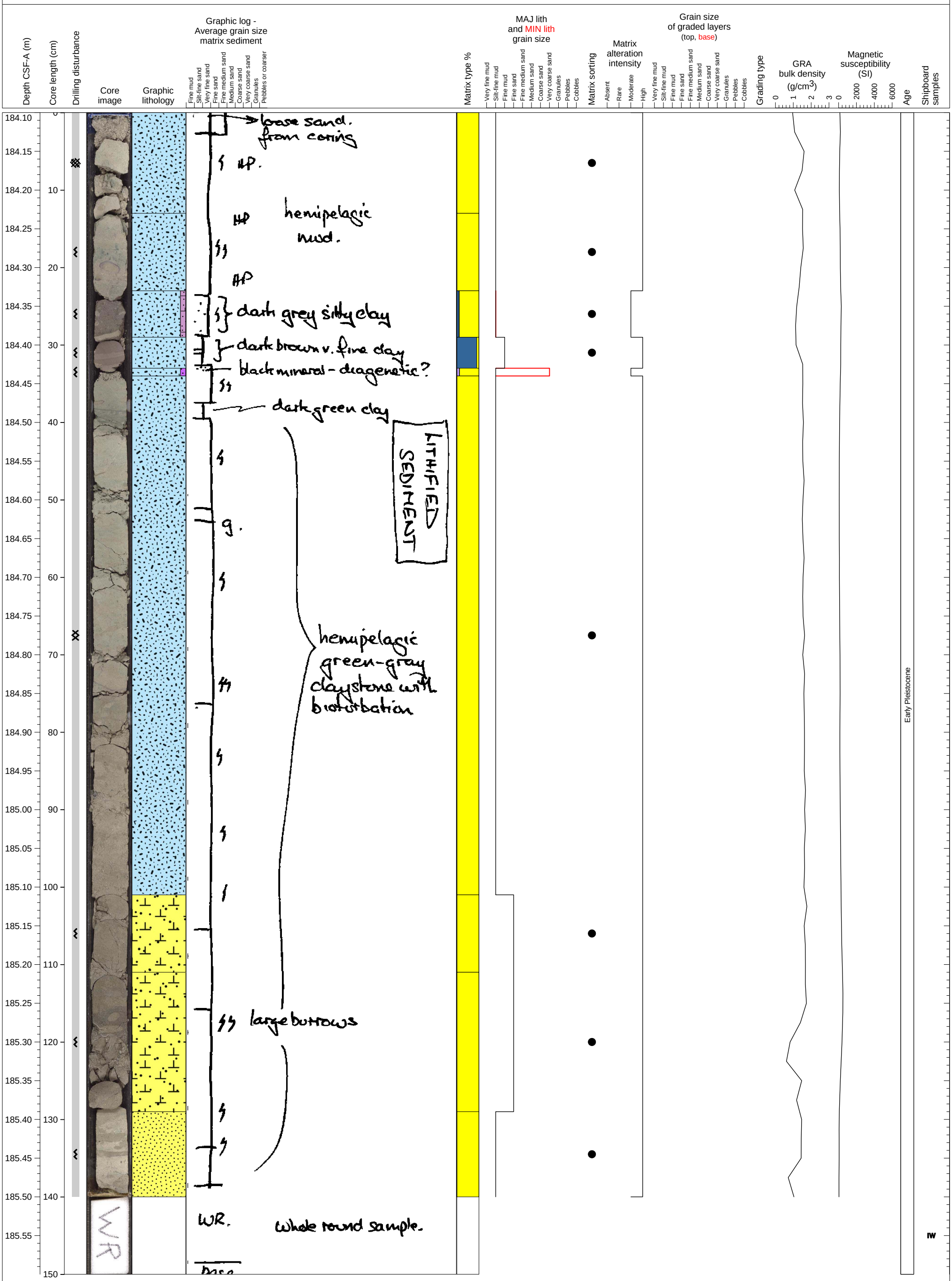


Hole 340-U1395B-23X Section CC, Top of Section: 177.1 CSF-A (m)

Calcareous breccia with carbonate mud matrix. Biogenic, pumice, scoriaceous, and massive igneous clasts are present. PAL sample from middle of section.

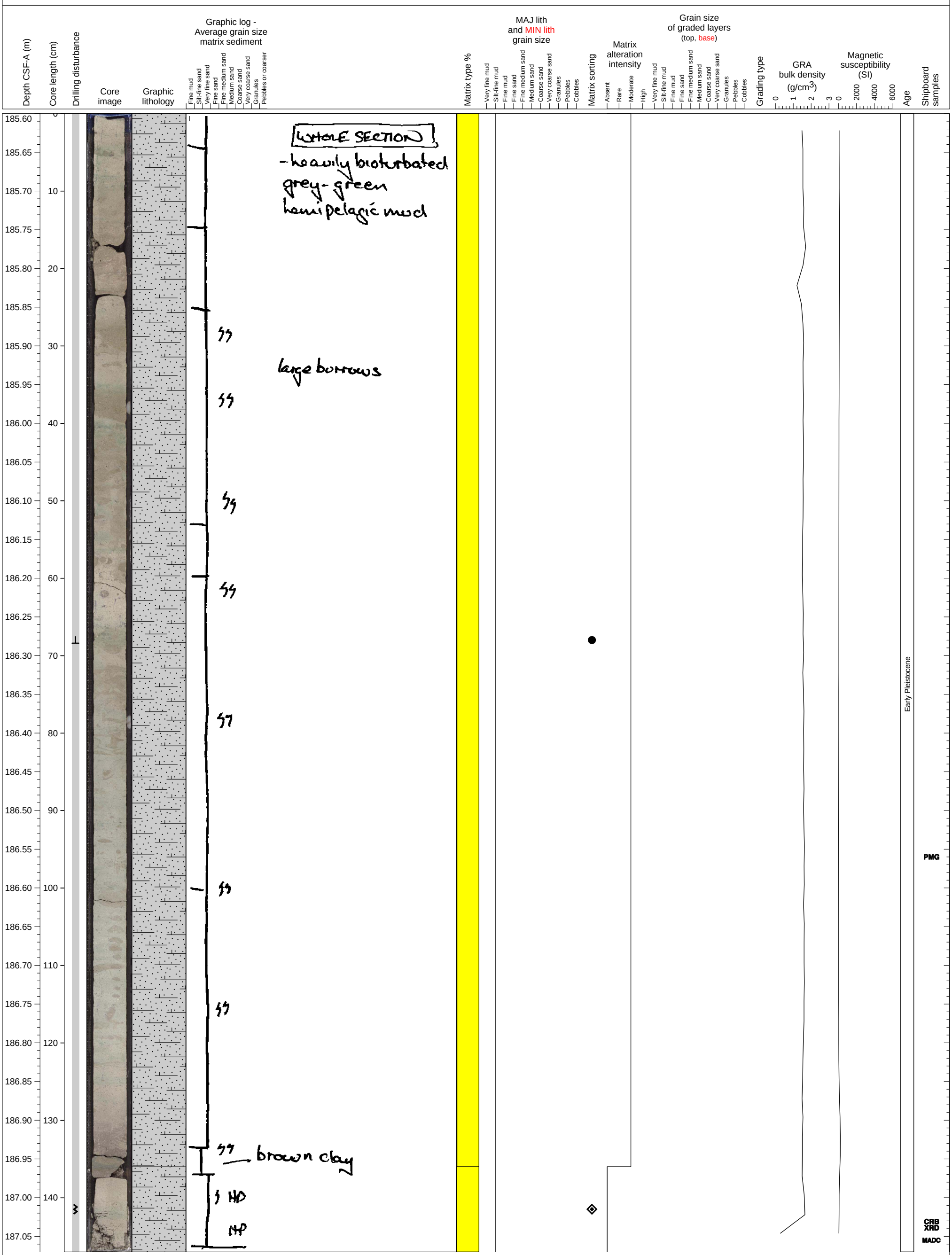
Hole 340-U1395B-24X Section 1, Top of Section: 184.1 CSF-A (m)

Calcareous mud and sand stone. At 29-34 cm, a thin reddish colored silty mud stone and 1-cm-cyrstal-rich layer are interlayered.



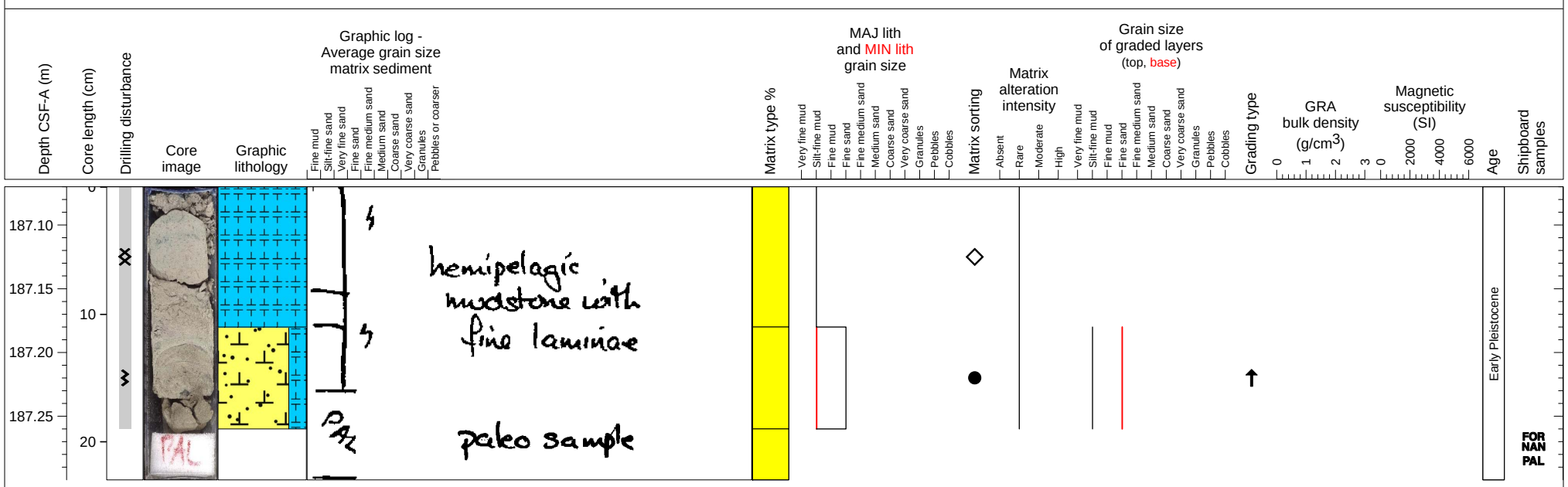
Hole 340-U1395B-24X Section 2, Top of Section: 185.6 CSF-A (m)

Completely bioturbated mudstone overlying a mudstone with less bioturbation.



Hole 340-U1395B-24X Section CC, Top of Section: 187.07 CSF-A (m)

Consolidated lime mud stone with graded 3 thin lamination layers.



Hole 340-U1395B-25X Section 1, Top of Section: 193.7 CSF-A (m)

2 greenish gray strongly bioturbated hemipelagic mud stone layer interbeds a pale gray pure lime mud stone.

Depth CSF-A (m)
Core length (cm)
Drilling disturbance
Core image
Graphic lithology
Graphic log - Average grain size matrix sediment
Fine mud
Silt-fine sand
Very fine sand
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles or coarser
Matrix type %
MAJ lith and MIN lith grain size
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Matrix sorting
Matrix alteration intensity
Absent
Rare
Moderate
High
Grain size of graded layers (top, base)
Very fine mud
Silt-fine mud
Fine mud
Fine sand
Fine medium sand
Medium sand
Coarse sand
Very coarse sand
Granules
Pebbles
Cobbles
Grading type
GRA bulk density (g/cm^3)
Magnetic susceptibility (SI)
Age
Shipboard samples

193.70 – 0
193.75
193.80 – 10
193.85
193.90 – 20
193.95
194.00 – 30
194.05
194.10 – 40
194.15
194.20 – 50
194.25
194.30 – 60
194.35
194.40 – 70
194.45
194.50 – 80
194.55
194.60 – 90
194.65
194.70 – 100
194.75
194.80 – 110
194.85
194.90 – 120
194.95
195.00 – 130
195.05
195.10 – 140
195.15
150

HP
sandier
HP
HP
grey-green mottled and bioturbated (heavily) hemipelagic mud
HP
HP
HP
v. fine mudstone calcareous fizzes with HCl.
heavily bioturbated hemipelagic mud.
WR
sampled.

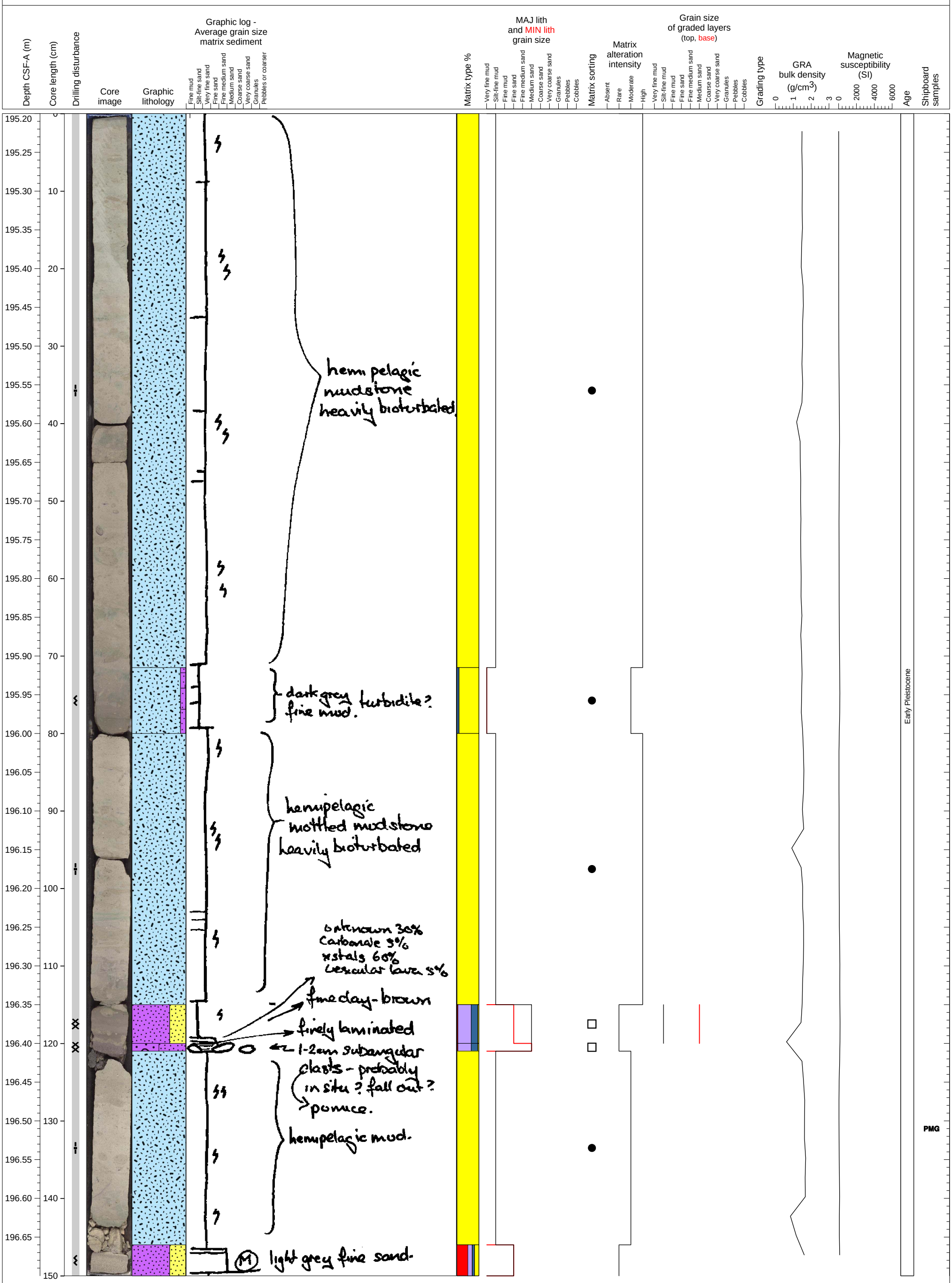
CRB
XRD
MADC

Early Pleistocene

IW

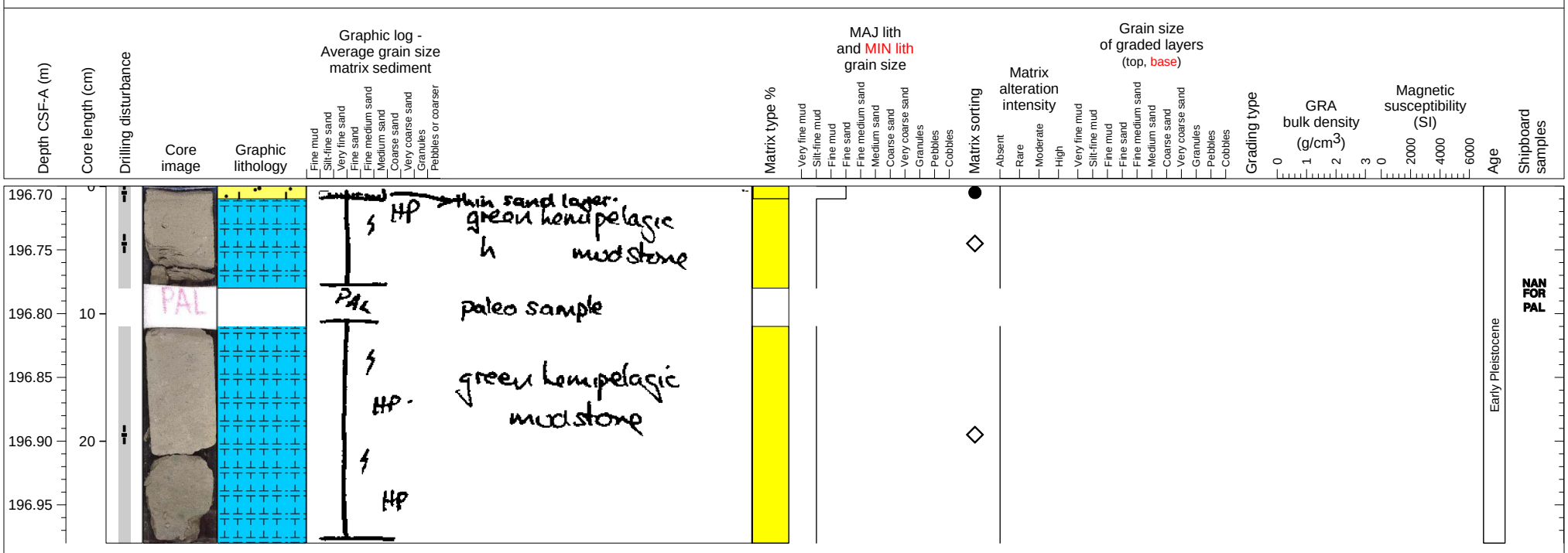
Hole 340-U1395B-25X Section 2, Top of Section: 195.2 CSF-A (m)

Slightly consolidated hemipelagic sediments. At 120 cm, tephra (crystal-rich and pebble-sized pumice) is embedded, and at the bottom there is a weakly stratified pumice-rich sand.



Hole 340-U1395B-25X Section CC, Top of Section: 196.7 CSF-A (m)

Semiconsolidated calcareous sandstone and mudstone with bioturbation. There are no recognizable structure in the mudstone. Sandstone shows weak lamination.



Thin section

Sample	Top [cm]	Bottom [cm]	Top Depth [m]	Bottom Depth [m]	Groundmass percentage [%]	Groundmass modal grain size [mm]	Groundmass comments	Volcanic grain [%]	Volcanic grain modal size [mm]	Biogenic grain [%]	Mineral grain [%]	Mineral grain modal size [mm]	Lithic grain [%]	Lithic grain modal size [mm]	Olivine present [%]	Olivine size MIN [mm]	Olivine shape	Olivine comment	Plagioclase present [%]	Plagioclase size MAX [mm]	Plagioclase shape	Plagioclase habit	Plagioclase comment	Clinopyroxene present [%]	Clinopyroxene size MAX [mm]	Clinopyroxene shape	Clinopyroxene habit	Clinopyroxene special features	Orthopyroxene present [%]	Orthopyroxene size MAX [mm]	Orthopyroxene shape	Orthopyroxene habit	Orthopyroxene comments	Amphibolite present [%]	Amphibolite size MAX [mm]	Amphibolite shape	Amphibolite habit	Amphibolite comments	Oxides present [%]	Oxides size MAX [mm]	Oxides shape	Oxides habit	Oxides comments	Quartz present [%]	Quartz size MAX [mm]	Quartz shape	Quartz habit	Comment
340-U1395B-14H-CC-W 8/10-TSB-TS#16	0	2	120.25	120.27																																												Pumice clast - too thin to properly log.