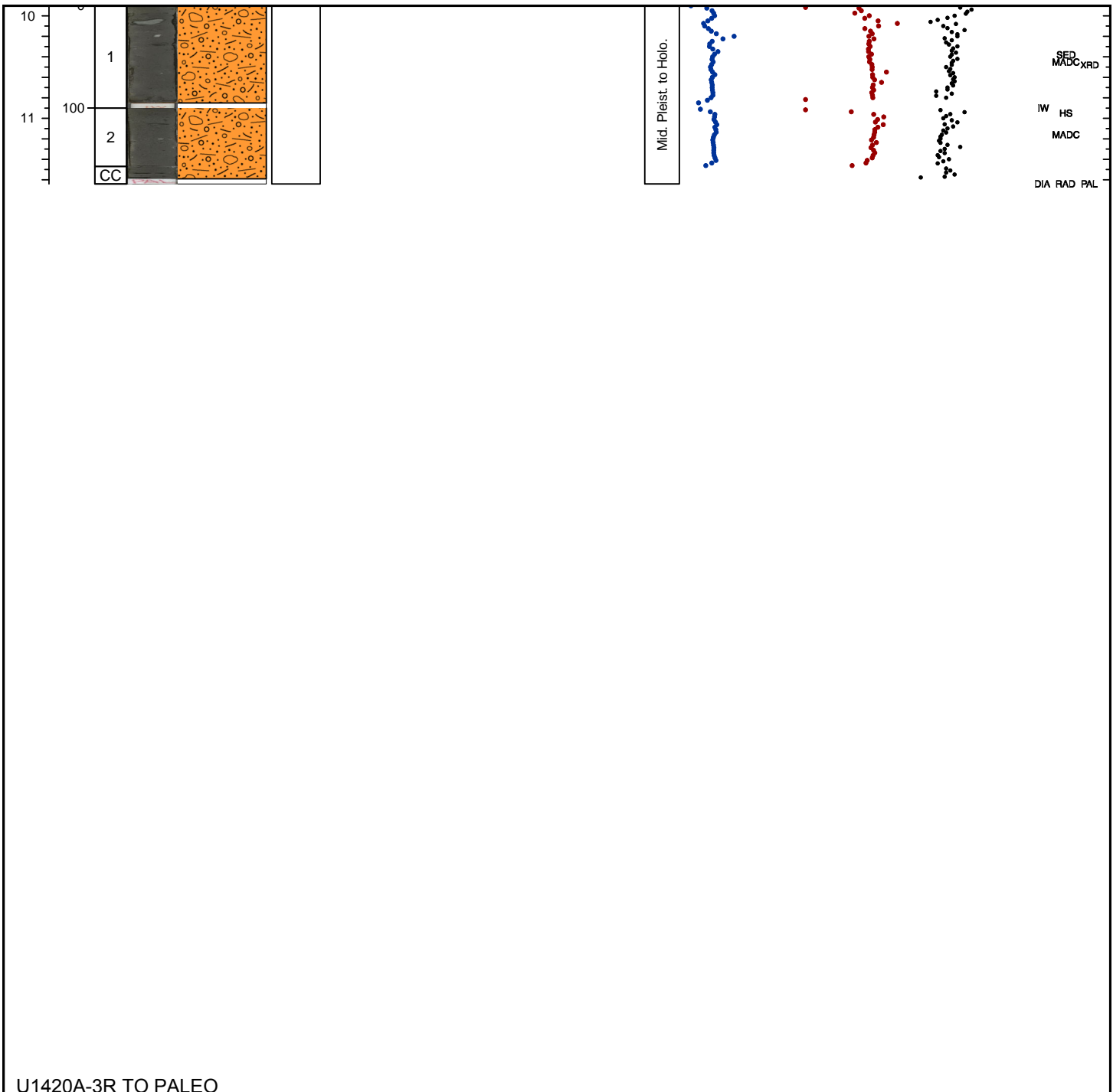
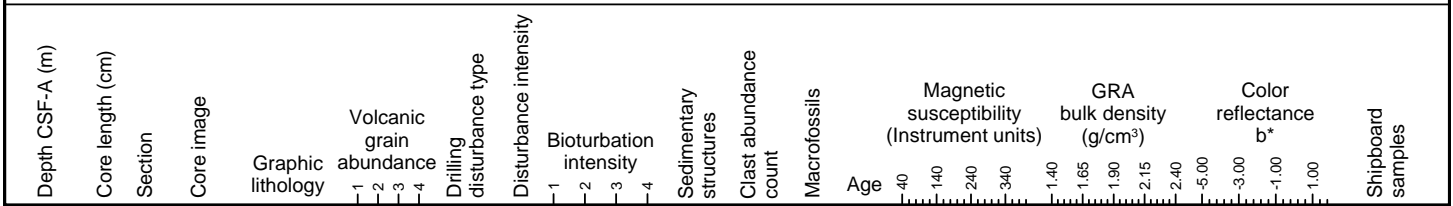


U1420A-1R NO RECOVERY

Hole 341-U1420A Core 2R, Interval 9.7-11.44 m (CSF-A)

CLAST-RICH DIAMICT

Very dark gray (N 3) muddy diamict is the major lithology. Clast lithologies include siltstone, basalt, granite and sandstone.

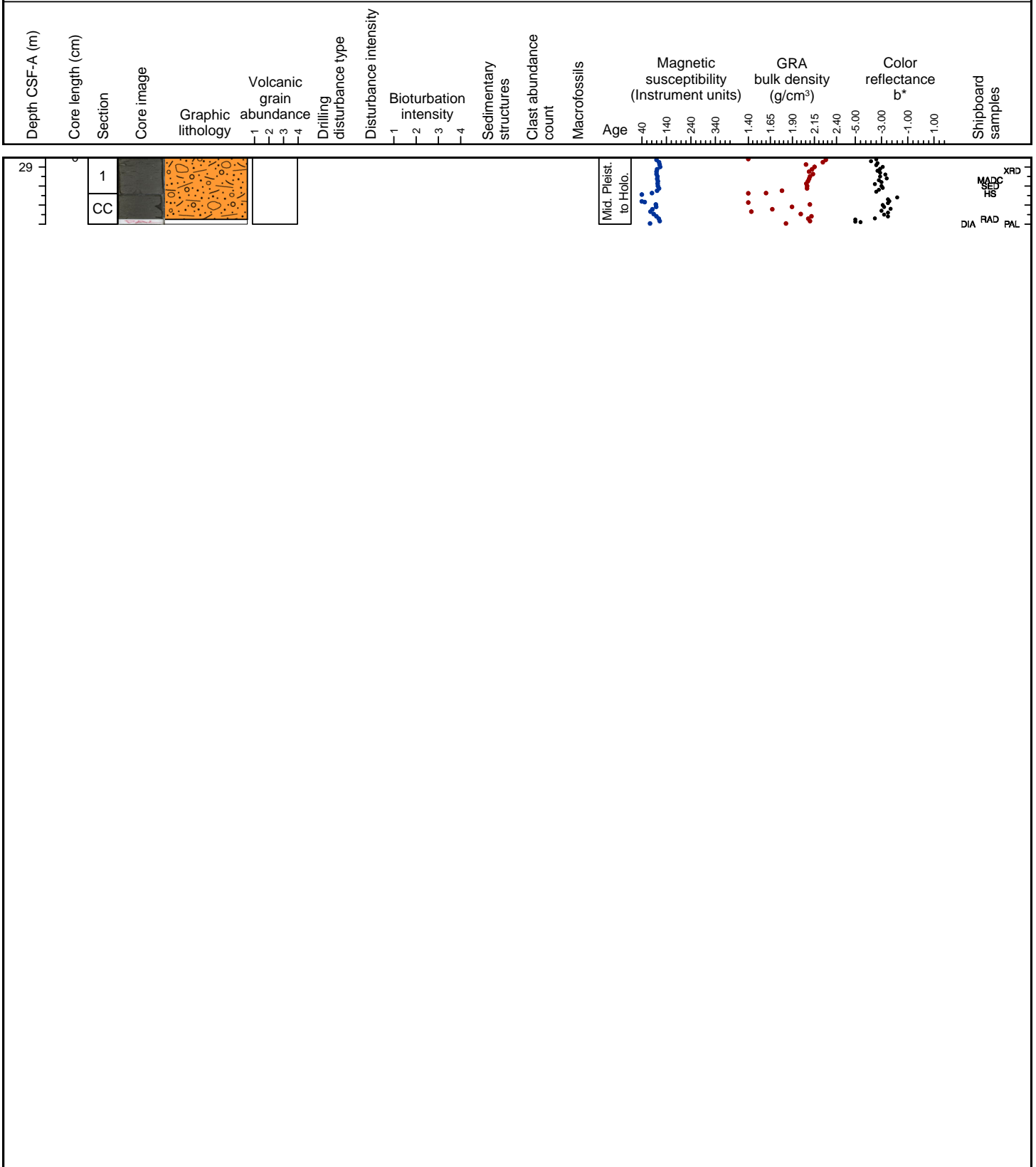


U1420A-3R TO PALEO

Hole 341-U1420A Core 4R, Interval 29.1-29.8 m (CSF-A)

CLAST-RICH DIAMICT

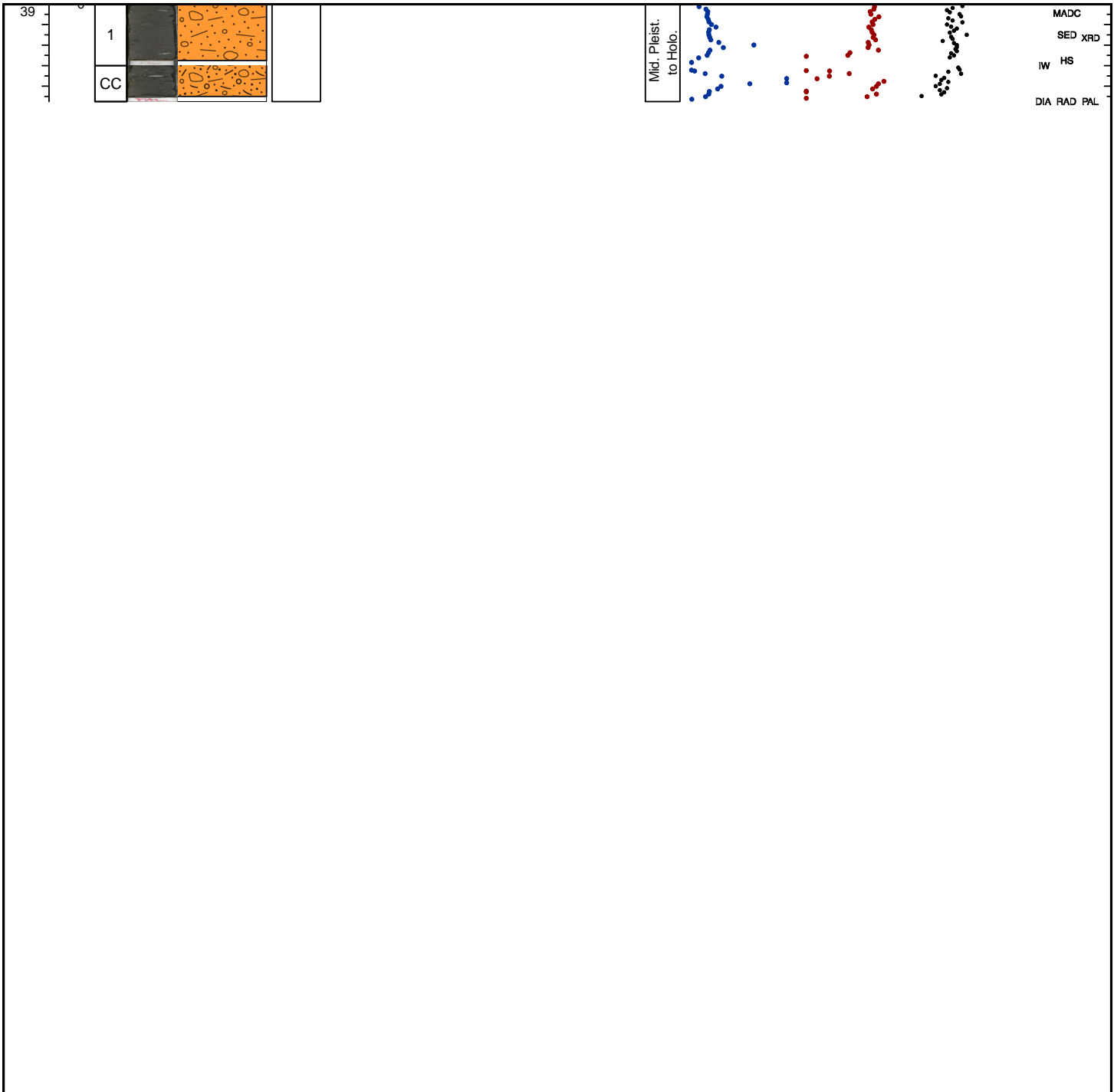
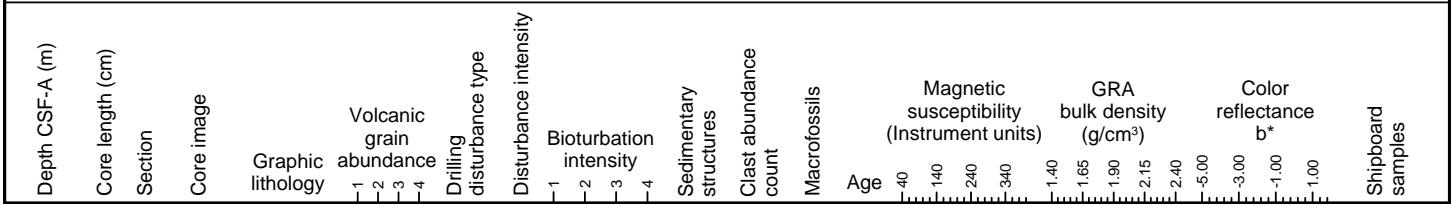
Very dark gray (N 3) muddy diamict is the major lithology. Mud contains foraminifers in some intervals. Clast lithologies include siltstone, basalt, granite and sandstone.



Hole 341-U1420A Core 5R, Interval 38.8-39.75 m (CSF-A)

CLAST-POOR DIAMICT, CLAST-RICH DIAMICT

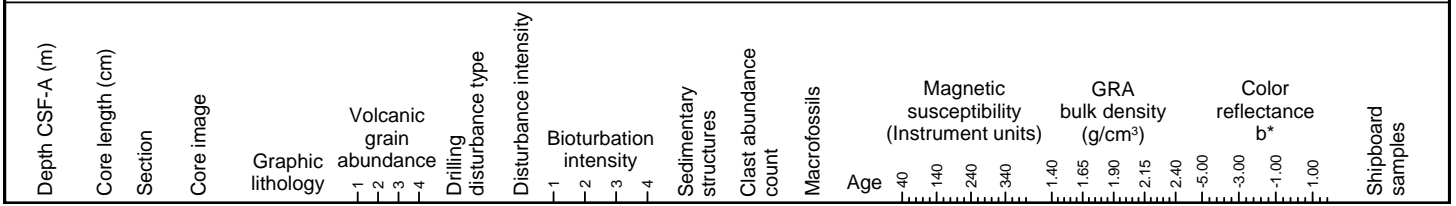
Very dark gray (N 3) silty clast-poor and clast-rich diamict are the major lithologies. Clasts include siltstone, sandstone, granitoid, and basalt.



Hole 341-U1420A Core 6R, Interval 48.5-48.67 m (CSF-A)

CLAST-RICH DIAMICT

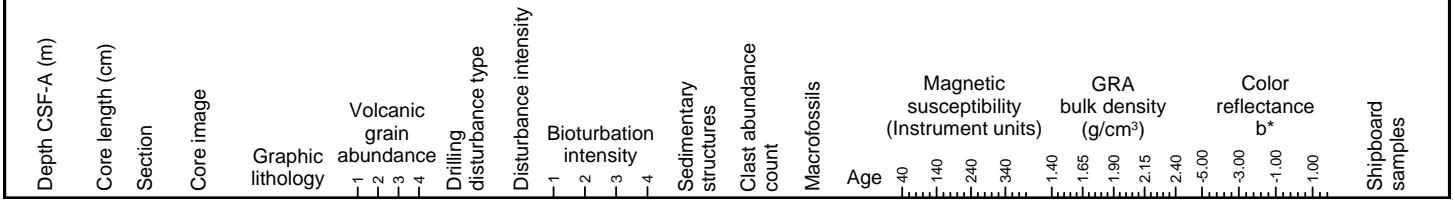
Very dark gray (N 3) muddy clast-rich diamict is the major lithology. Clasts include siltstone, sandstone, and metasiltstone.



Hole 341-U1420A Core 7R, Interval 58.2-58.27 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

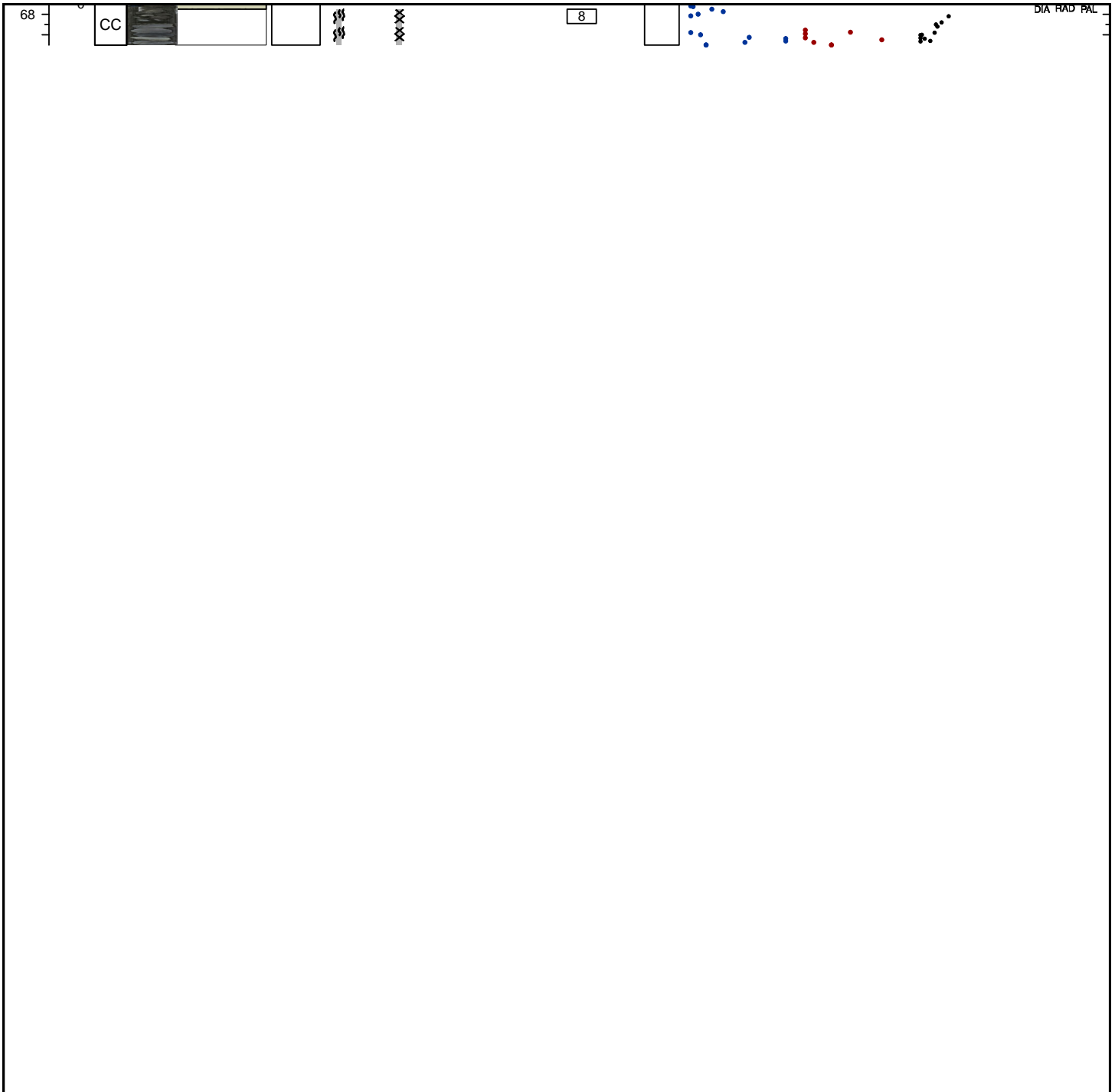
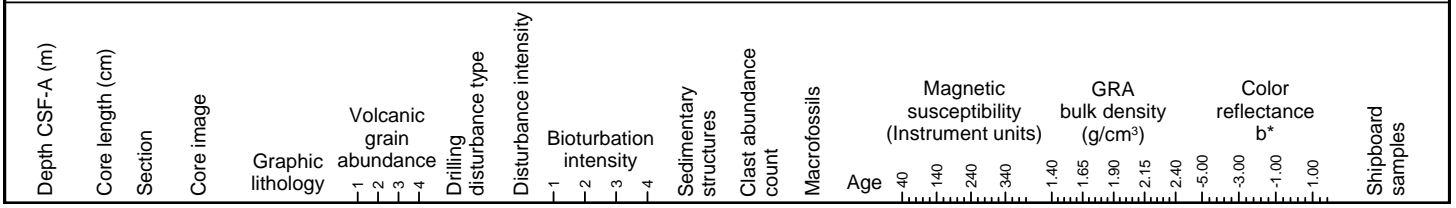
No major lithology. Matrix material not recovered. One 6 cm siltstone present.



Hole 341-U1420A Core 8R, Interval 67.9-68.3 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED, MUD

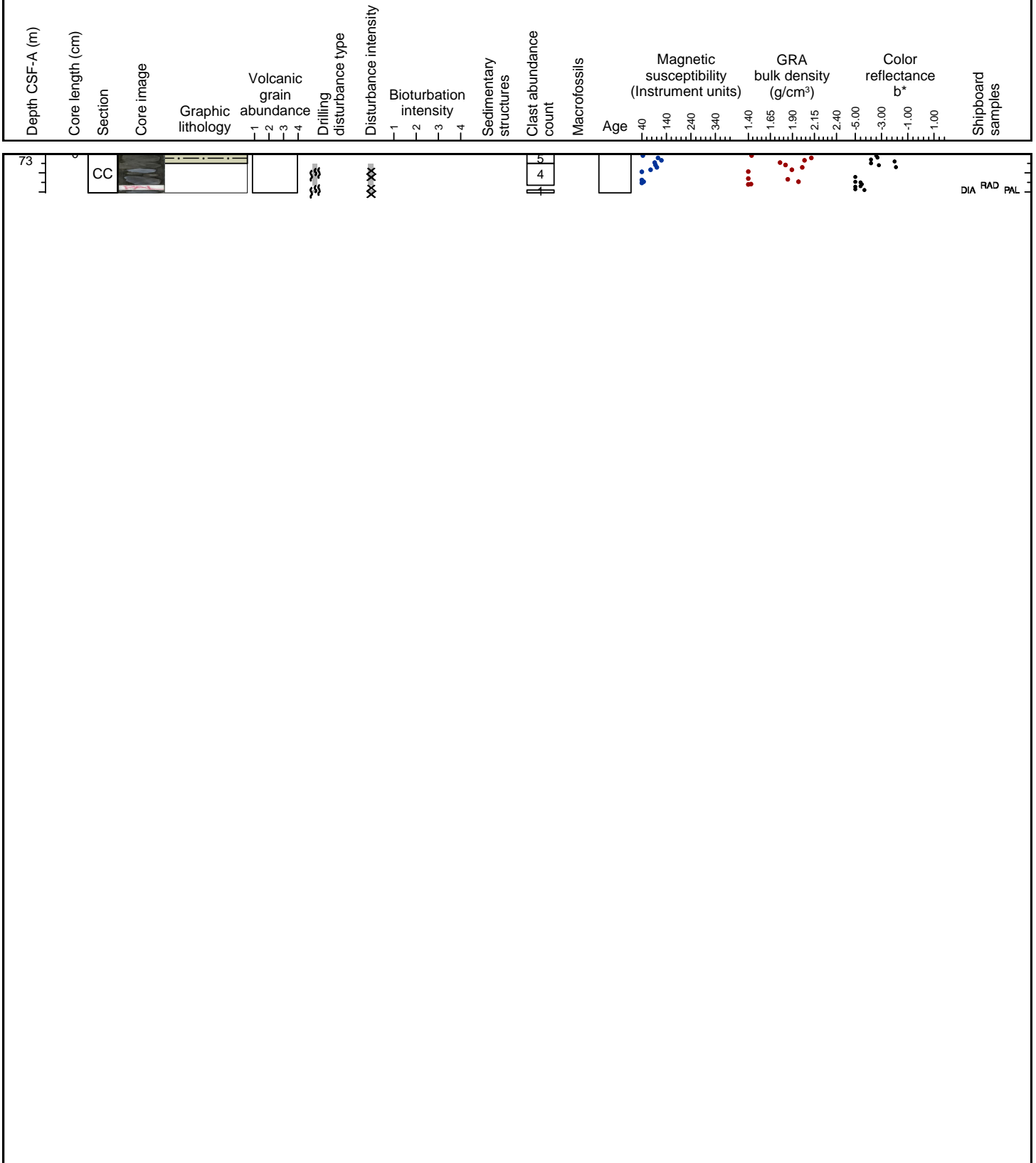
No major lithology recovered. Matrix material not recovered for Bins #2 and 3, only clasts. Clast lithologies include sandstone, slate, argillite, volcanic, and metasandstone. Mud is a minor lithology.

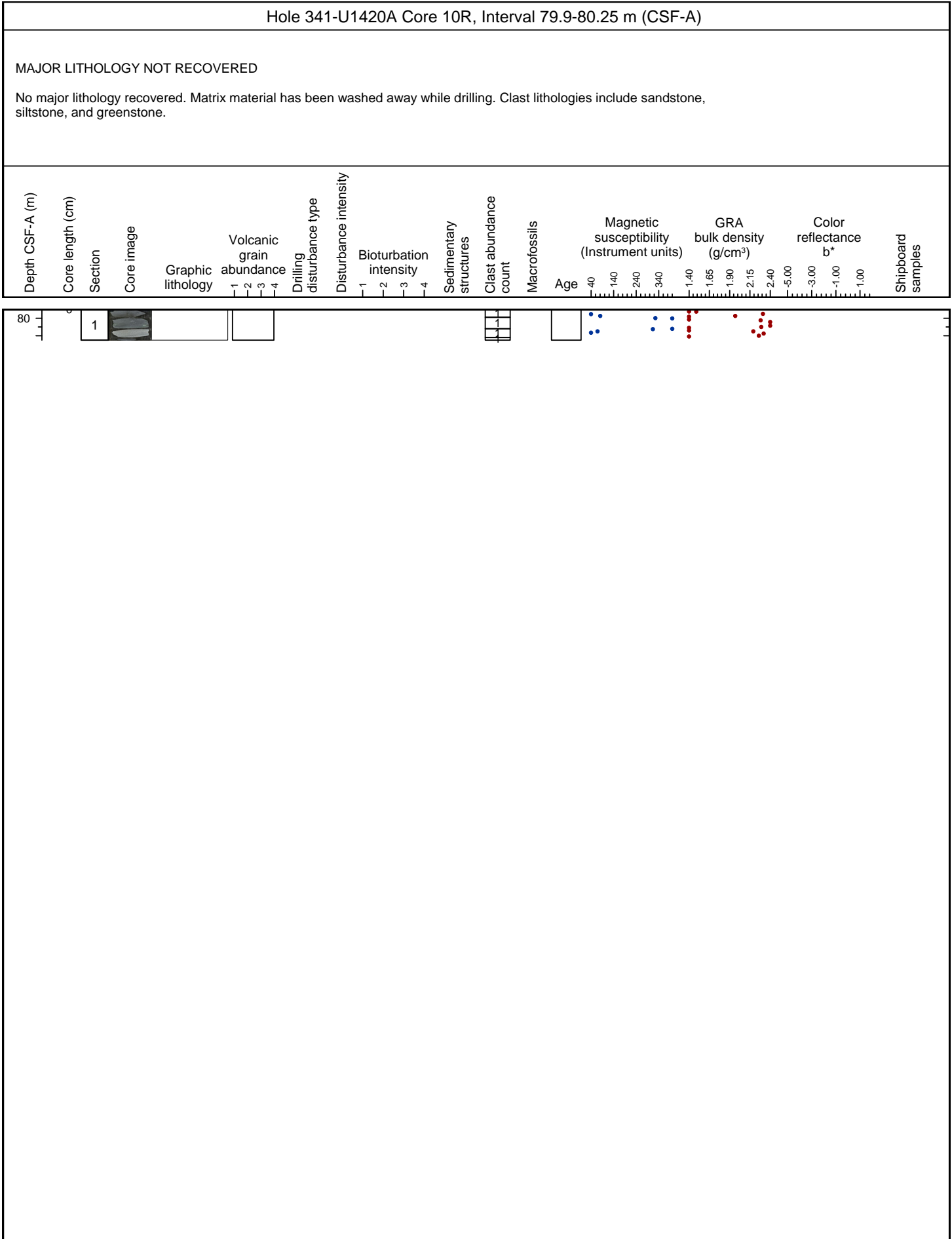


Hole 341-U1420A Core 9R, Interval 73.4-73.81 m (CSF-A)

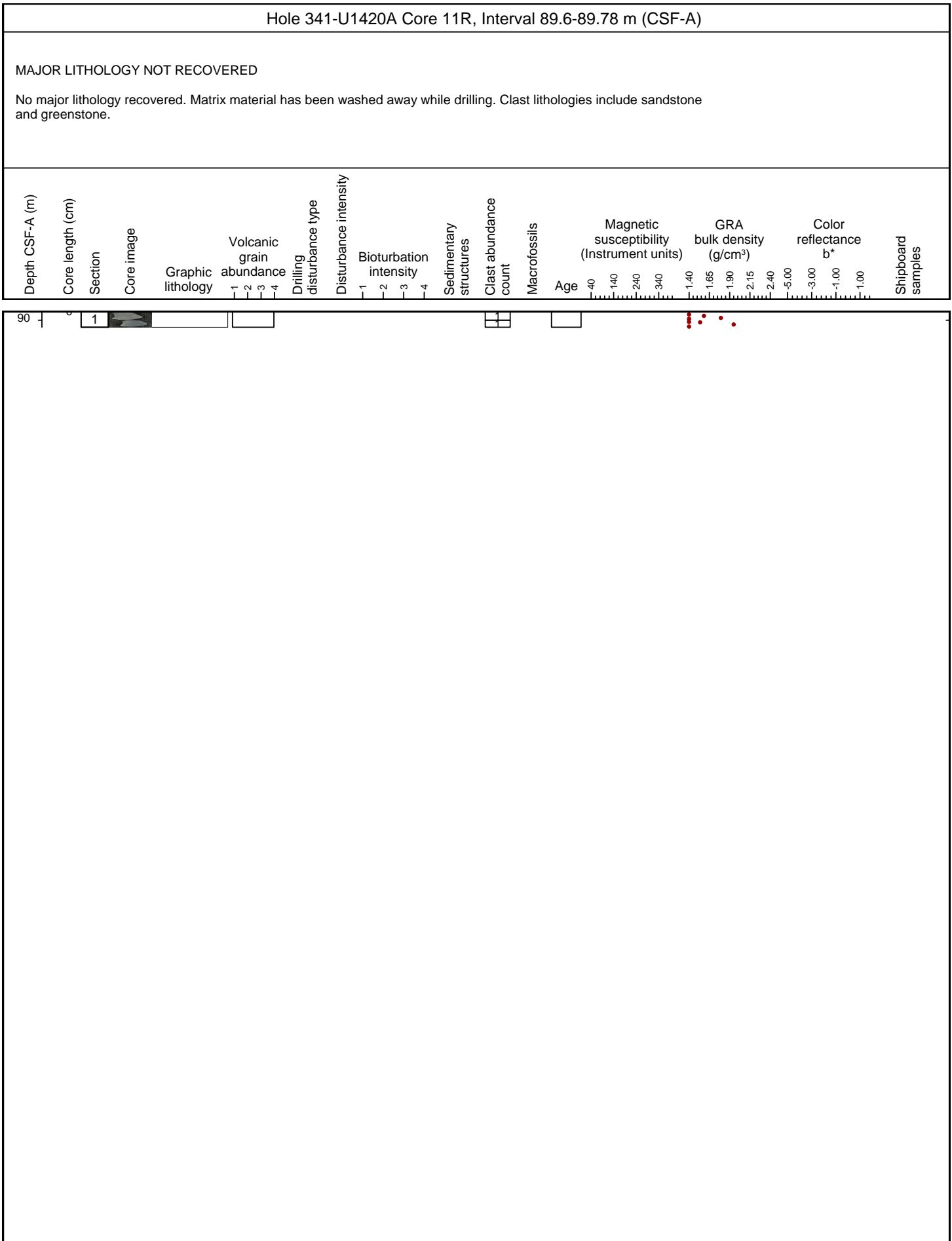
MAJOR LITHOLOGY NOT RECOVERED, MUD

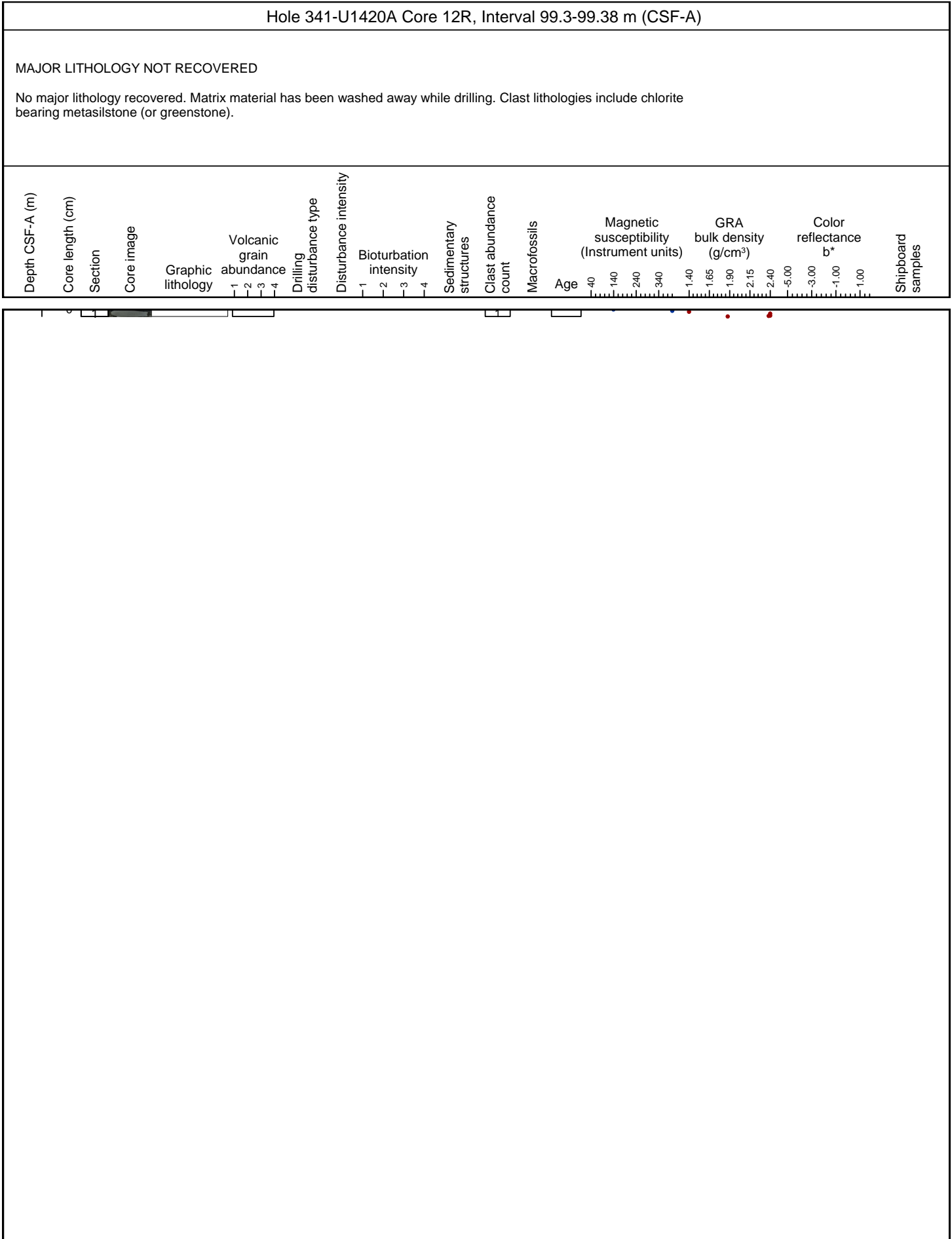
No major lithology recovered. Matrix material not recovered for most of the core, only clasts. Clast lithologies include sandstone, siltstone, argillite, volcanic, and metasiltstone. Mud with dispersed clasts is a minor lithology.







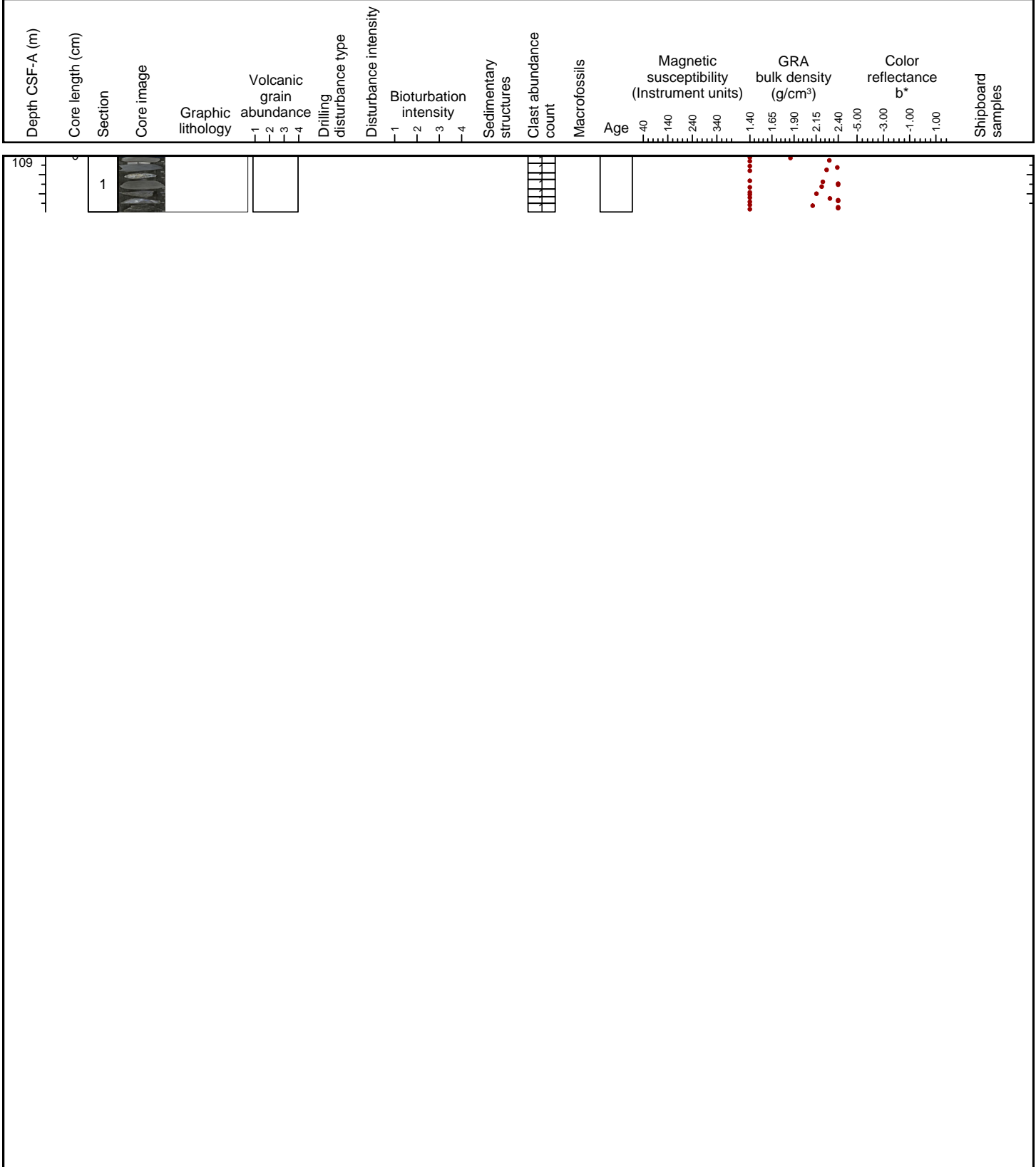




Hole 341-U1420A Core 13R, Interval 109.0-109.59 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

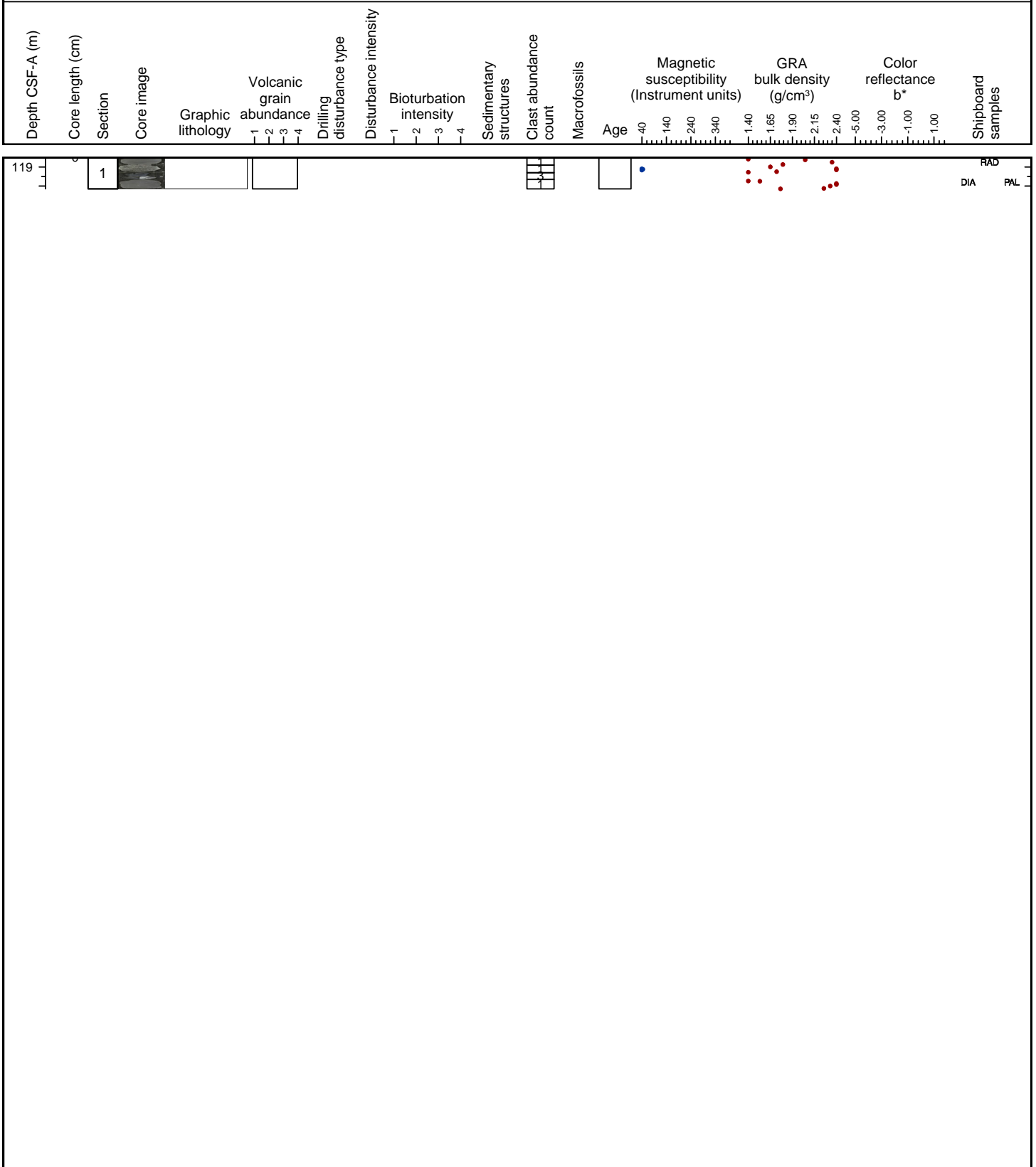
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include siltstone, sandstone, granite, and diorite.



Hole 341-U1420A Core 14R, Interval 118.7-119.03 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

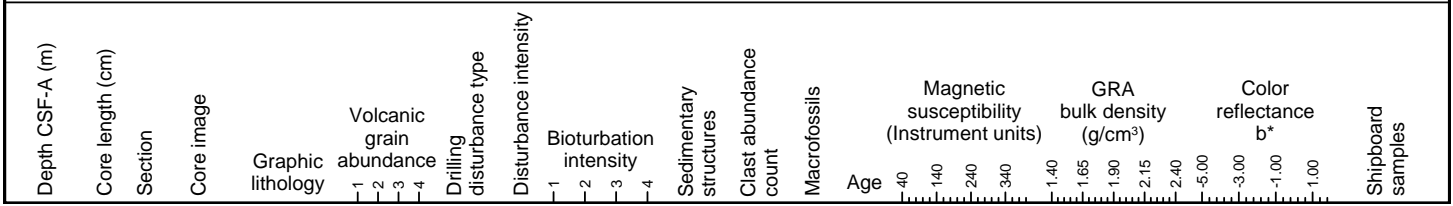
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include siltstone, diorite, and quartz.



Hole 341-U1420A Core 15R, Interval 128.4-128.46 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

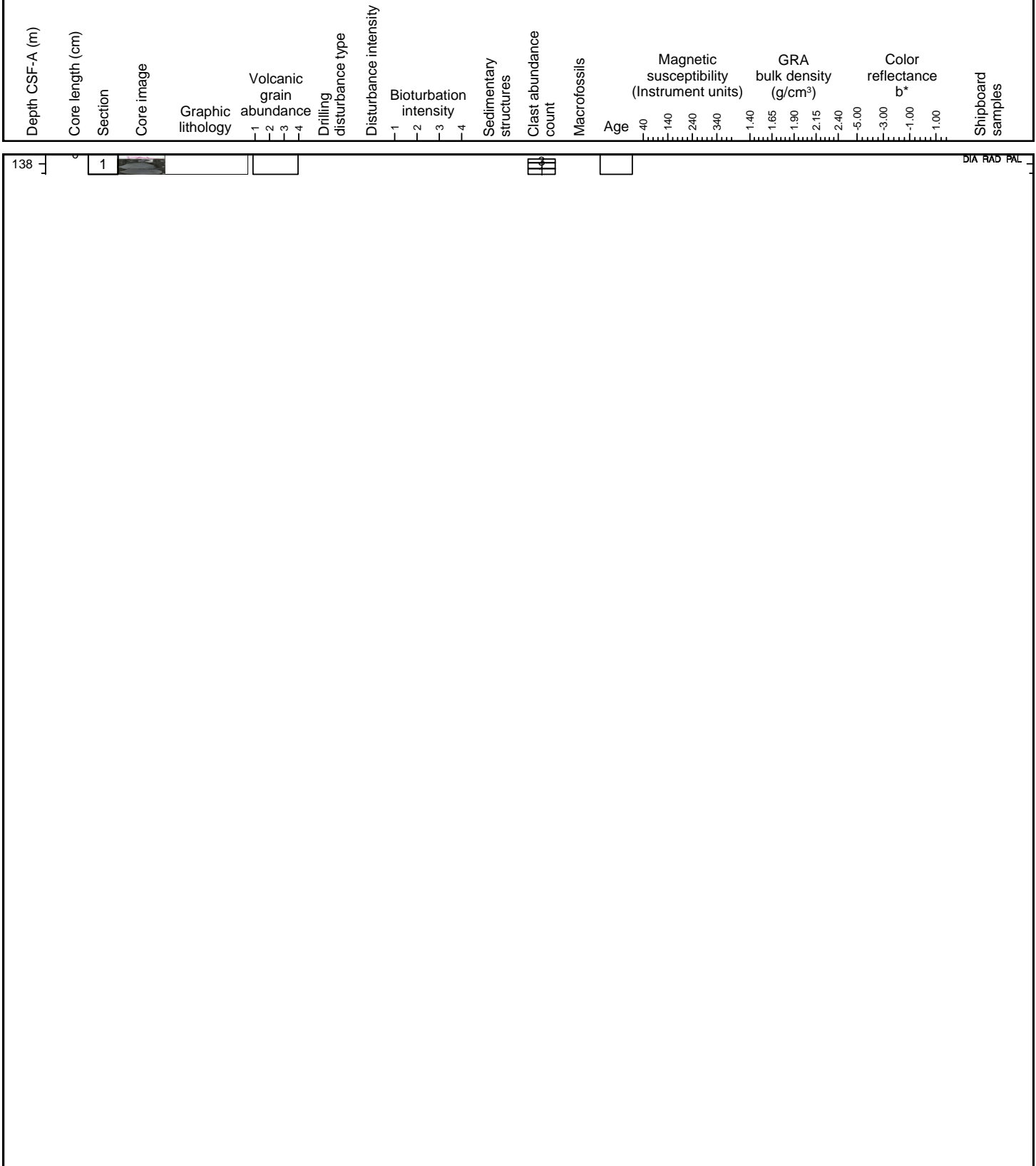
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include a green metamorphic rock and siltstone.



Hole 341-U1420A Core 16R, Interval 138.1-138.31 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

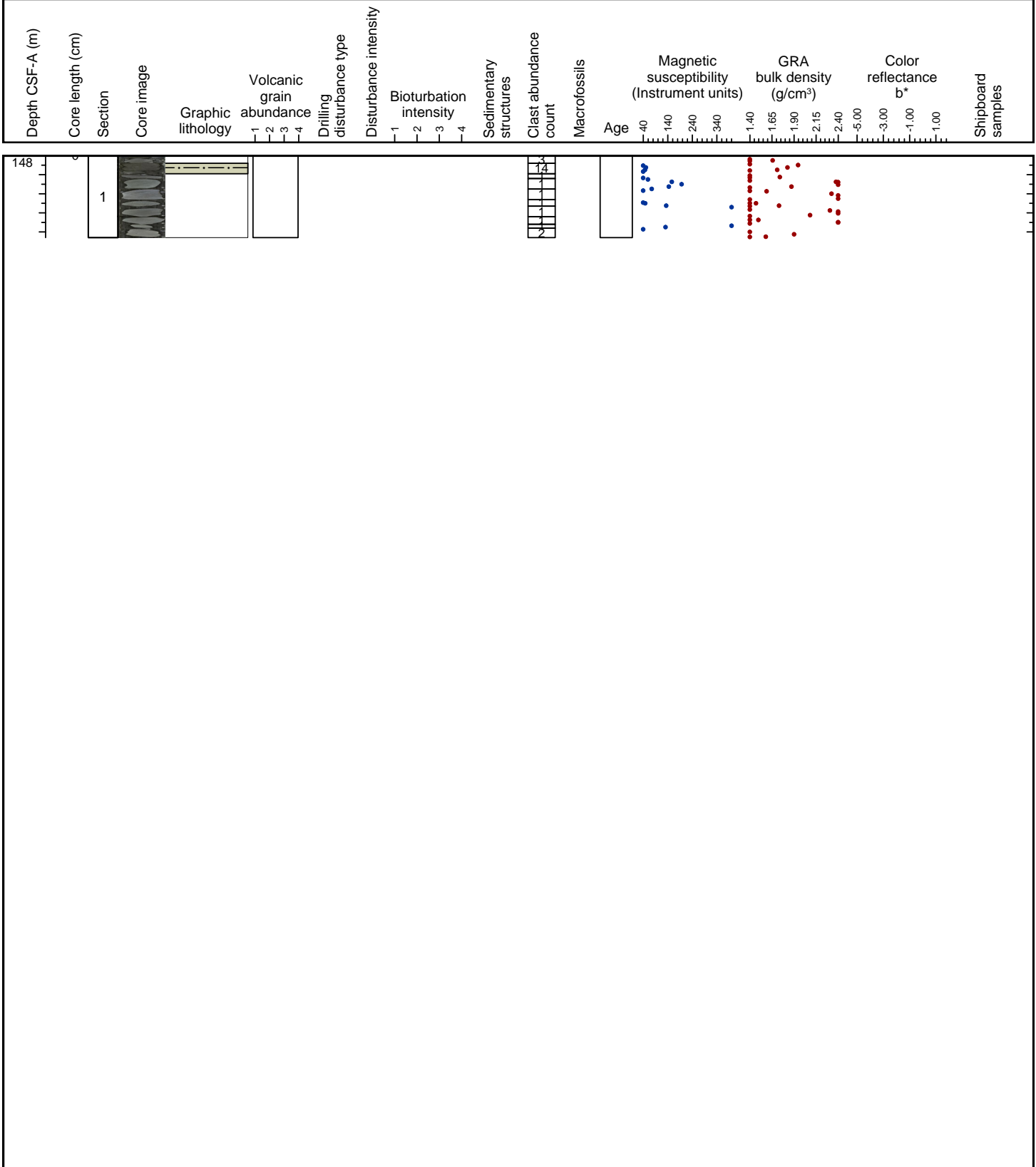
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include siltstone.



Hole 341-U1420A Core 17R, Interval 147.8-148.66 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED, MUD

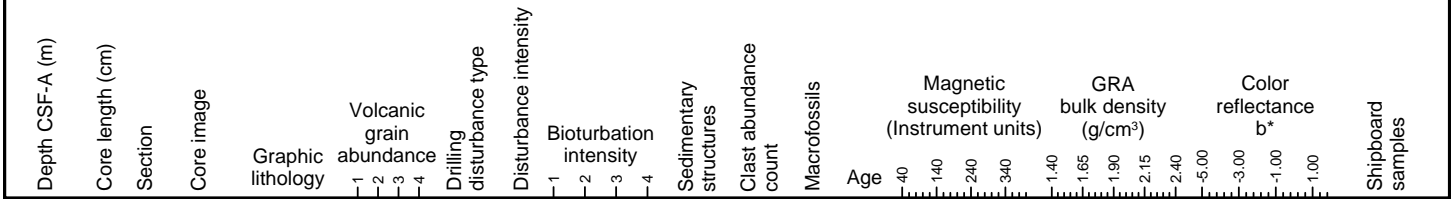
No major lithology recovered. Matrix has been washed away while drilling. Very dark gray (N 3) mud with abundant clasts is a minor lithology. Clast lithologies include siltstone, sandstone, volcaniclastic/igneous, and metasandstone.



Hole 341-U1420A Core 18R, Interval 157.5-157.73 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

No major lithology recovered. Matrix has been washed away while drilling. Clast lithologies include felsic magmatic, metasediment, and sandstone.

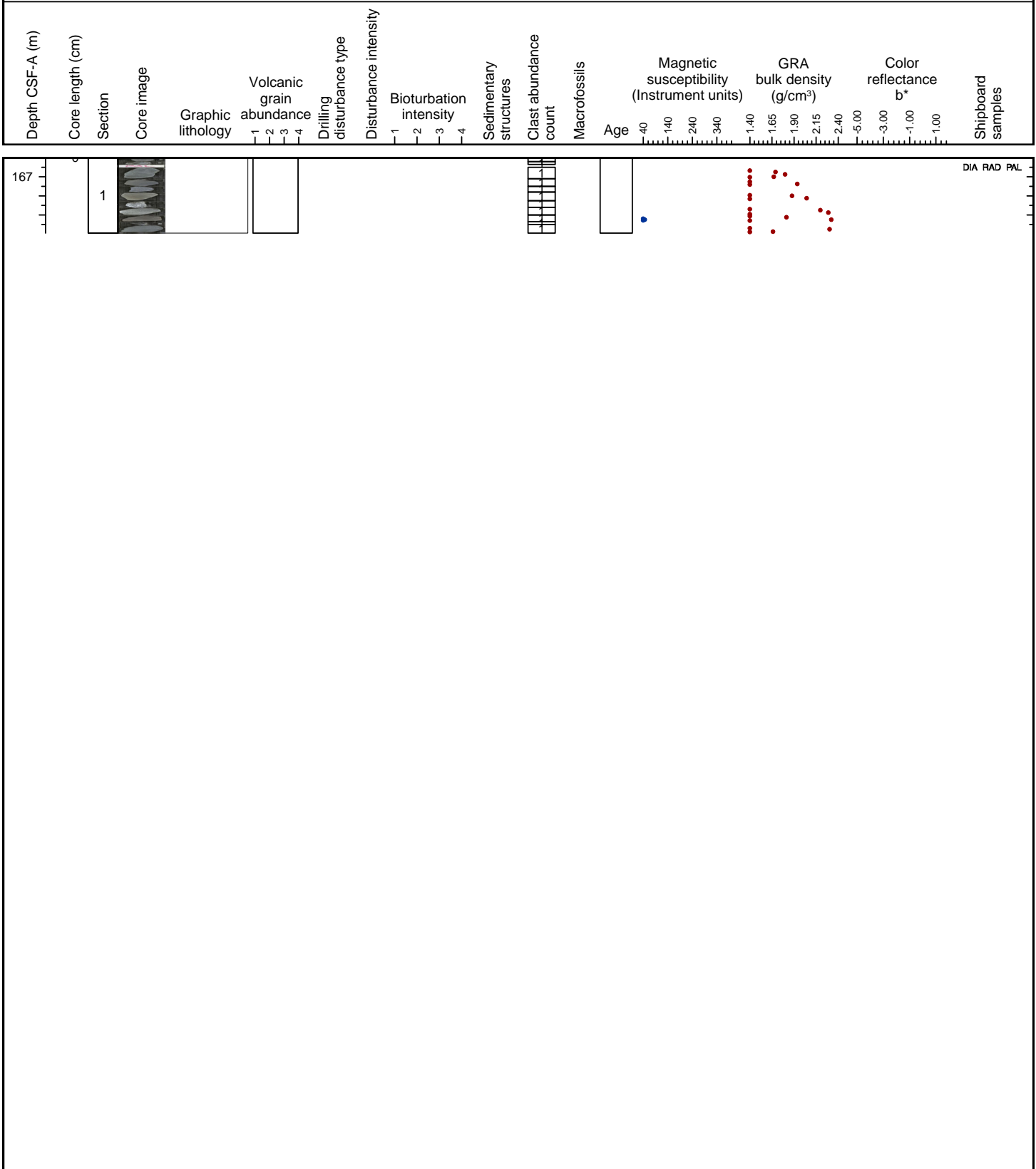




Hole 341-U1420A Core 19R, Interval 167.2-167.99 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

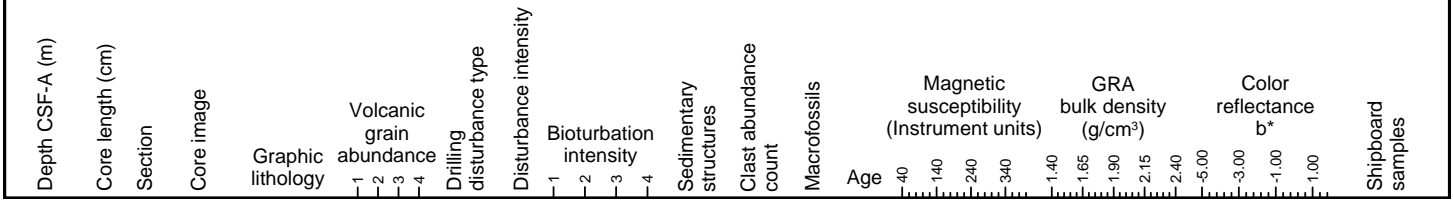
No major lithology recovered. Matrix has been washed away while drilling. Clast lithologies include siltstone, sandstone, dolomite, granite, and metasiltstone.



Hole 341-U1420A Core 20R, Interval 176.9-177.33 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED, MUD

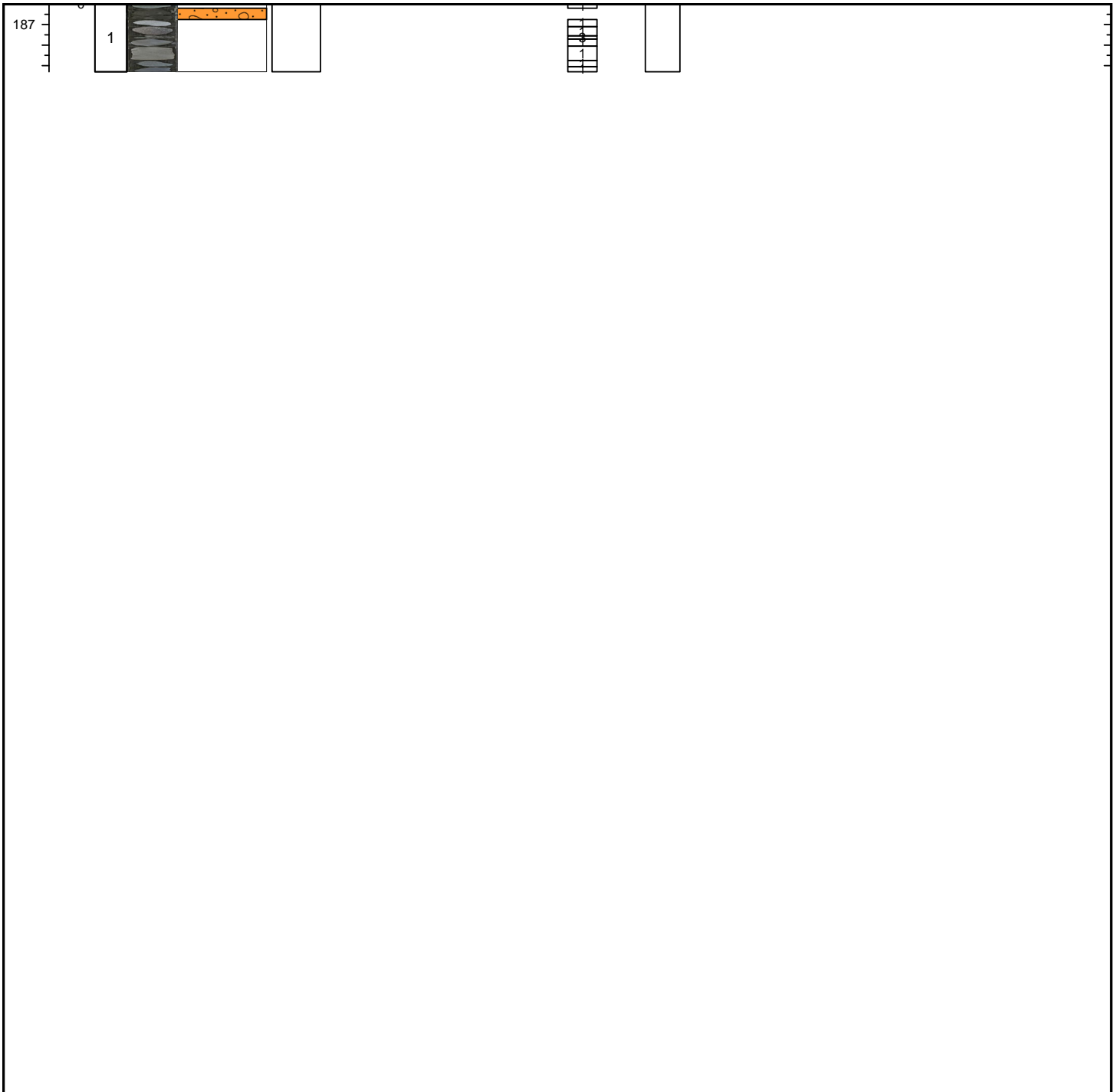
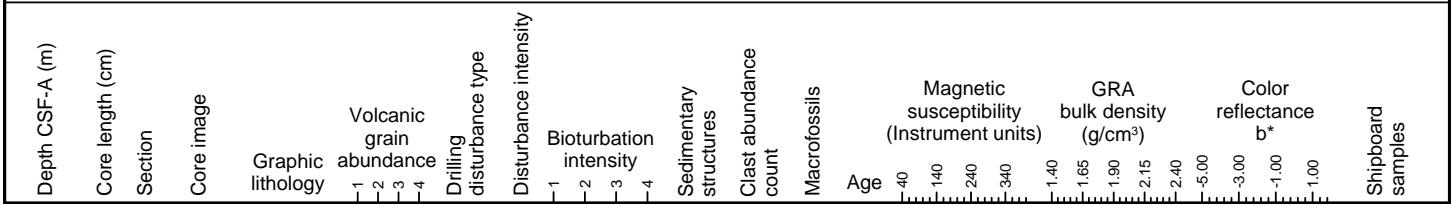
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include felsic volcanic breccia, argillite, rhyolite, sandstone and granite. Mud with dispersed clasts is a minor lithology.



Hole 341-U1420A Core 21R, Interval 186.6-187.26 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED, CLAST-POOR DIAMICT

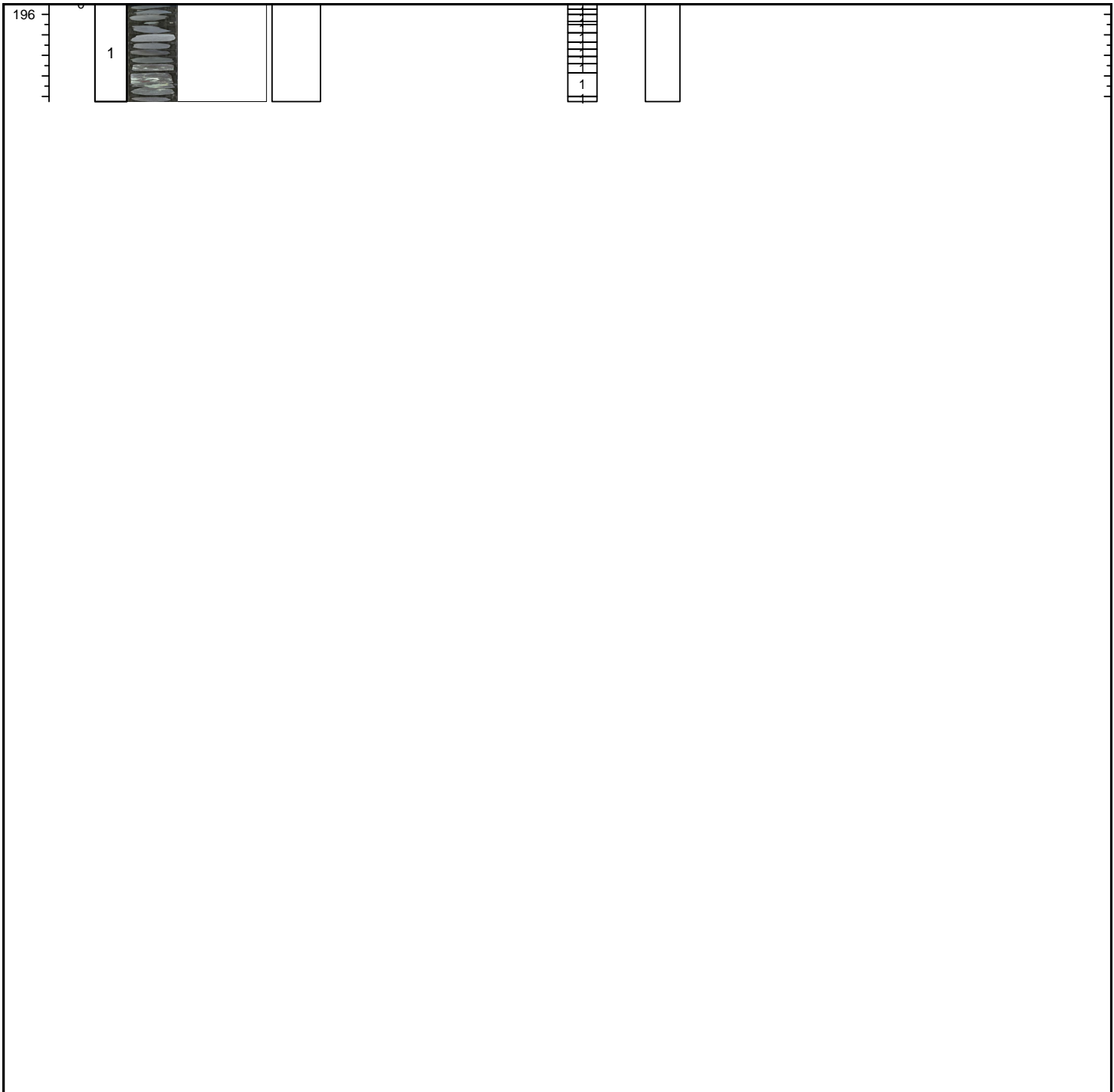
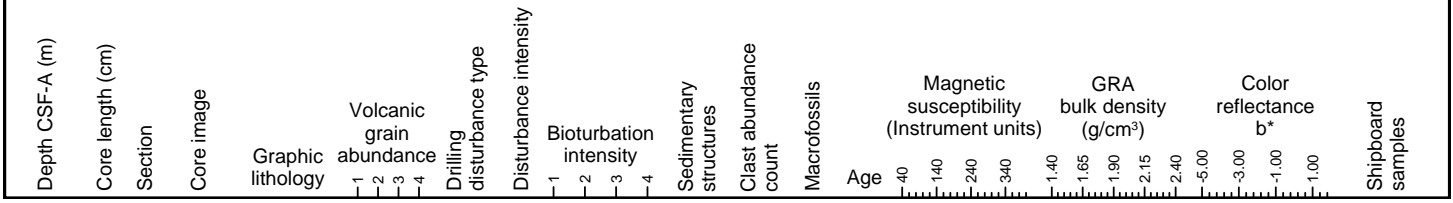
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include volcanic breccia, sandstone, rhyolite, argillite, sandstone, siltstone. Clast-poor sandy diamict is a minor lithology.



Hole 341-U1420A Core 22R, Interval 196.3-197.25 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

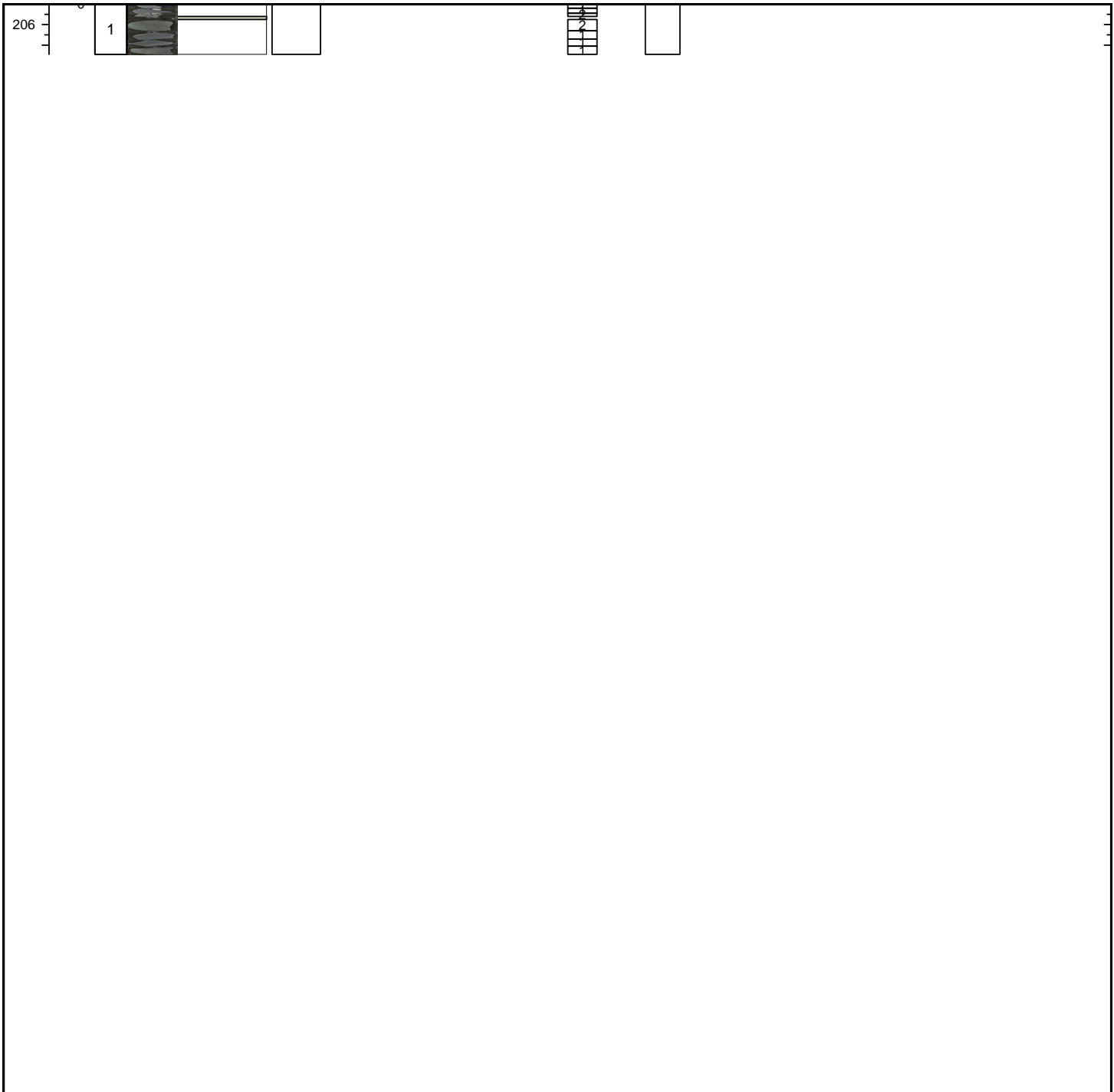
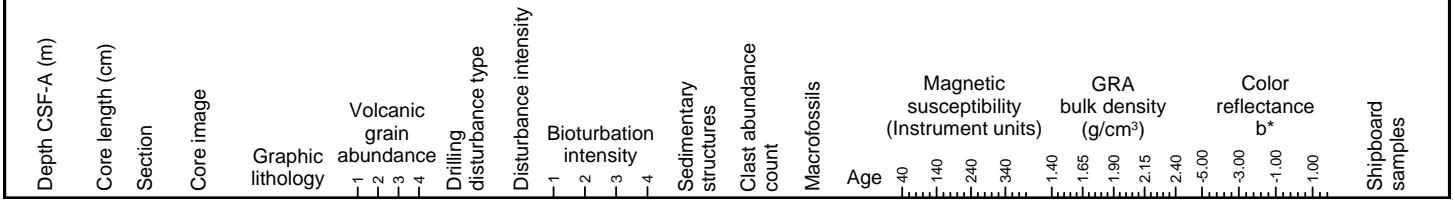
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include siltstone, rhyolite, sandstone, granite.



Hole 341-U1420A Core 23R, Interval 206.0-206.49 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED, MUD

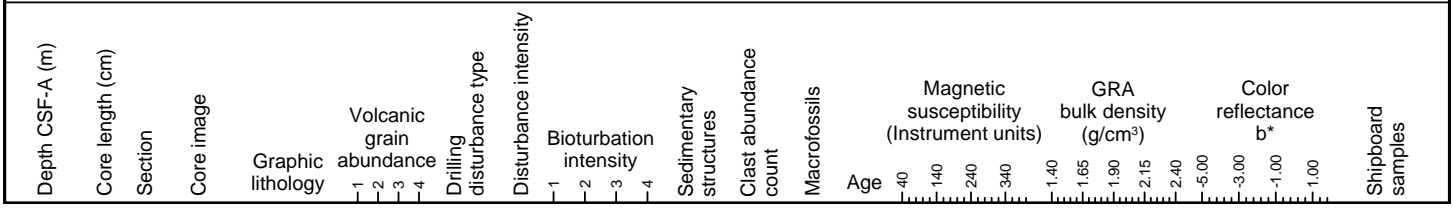
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include metasandstone (with fabric), sandstone, and siltstone. Very dark gray (N 3) sandy mud is a minor lithology.



Hole 341-U1420A Core 24R, Interval 215.7-216.08 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

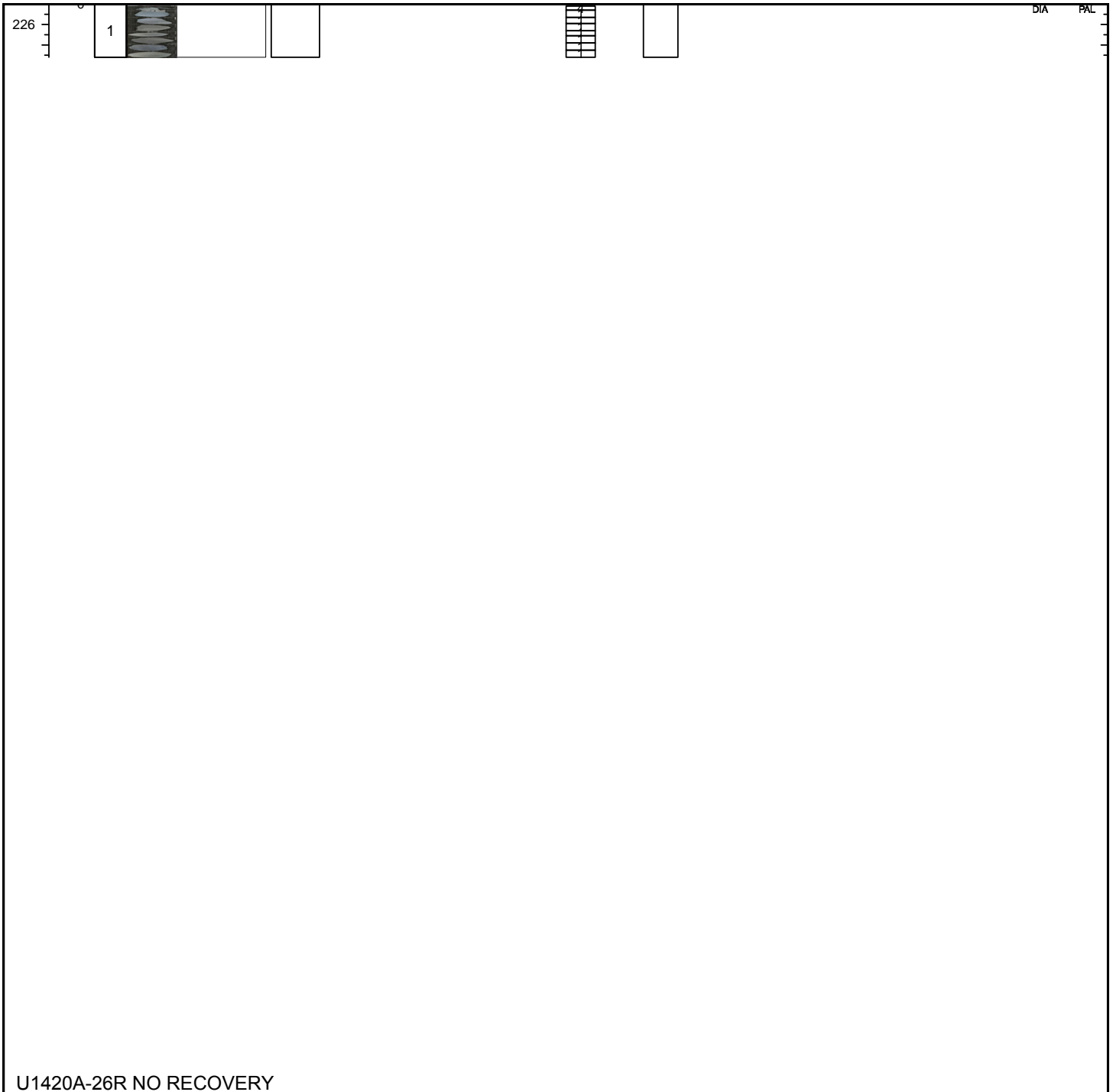
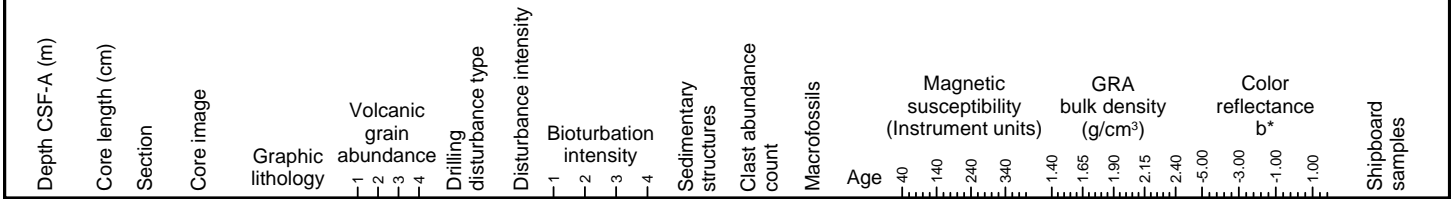
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include siltstone, sandstone and meta-sandstone.



Hole 341-U1420A Core 25R, Interval 225.4-225.92 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include argillite, sandstone, siltstone, and metasandstone.

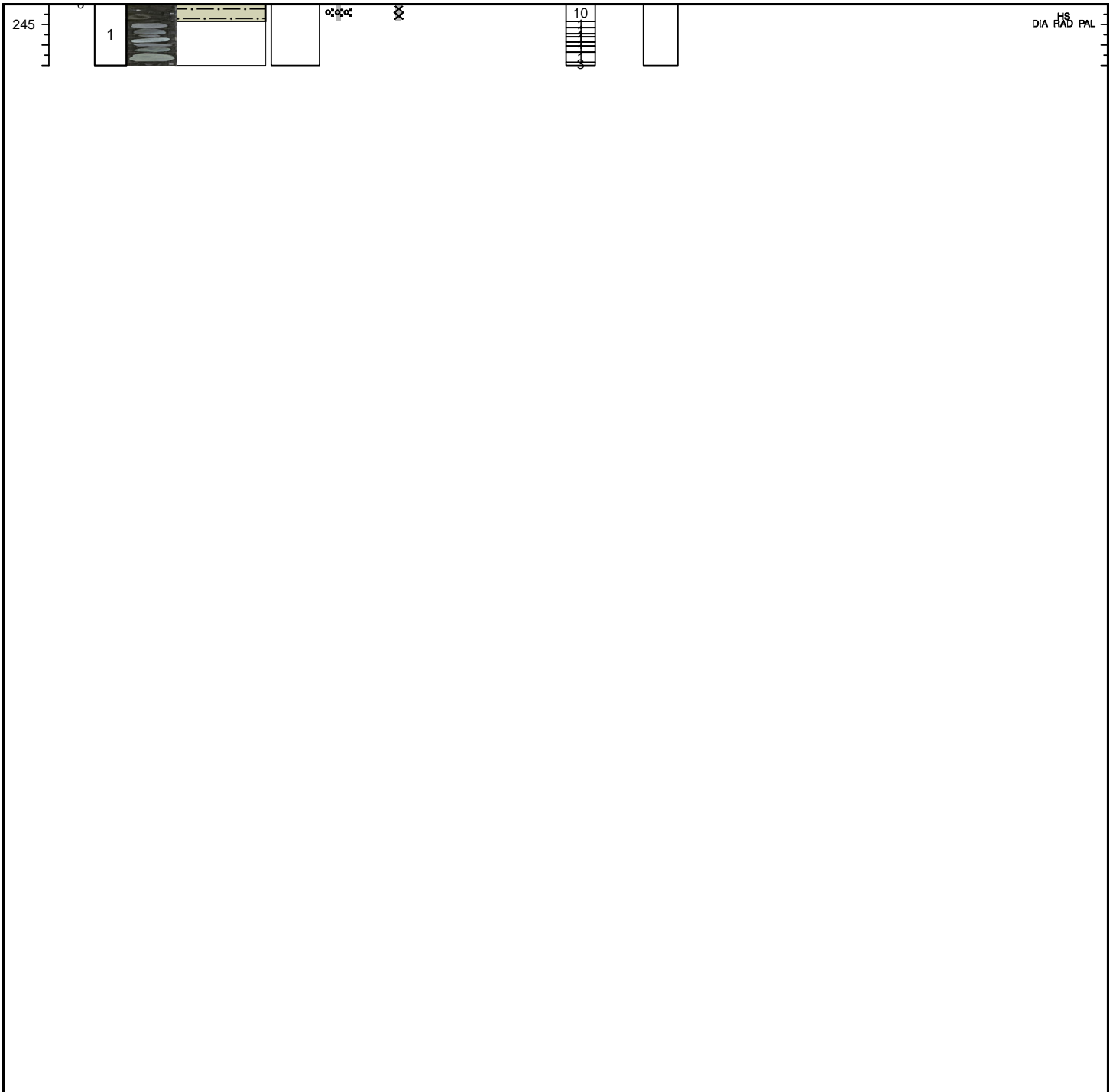
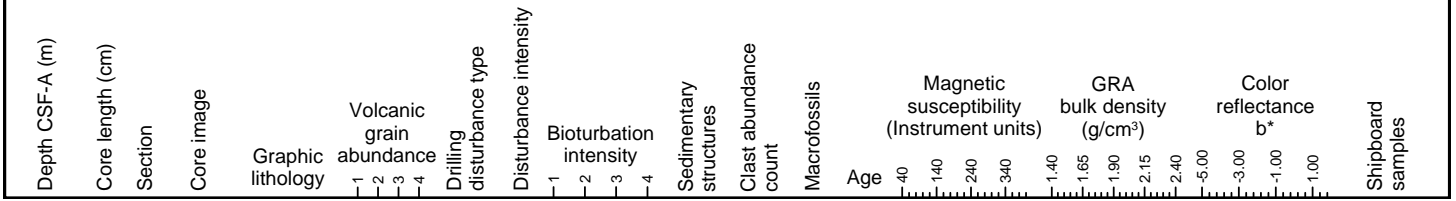


U1420A-26R NO RECOVERY

Hole 341-U1420A Core 27R, Interval 244.8-245.4 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED, MUD

No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include siltstone, sandstone, gabbro, and basalt. Very dark gray (N 3) mud with abundant clasts is a minor lithology.

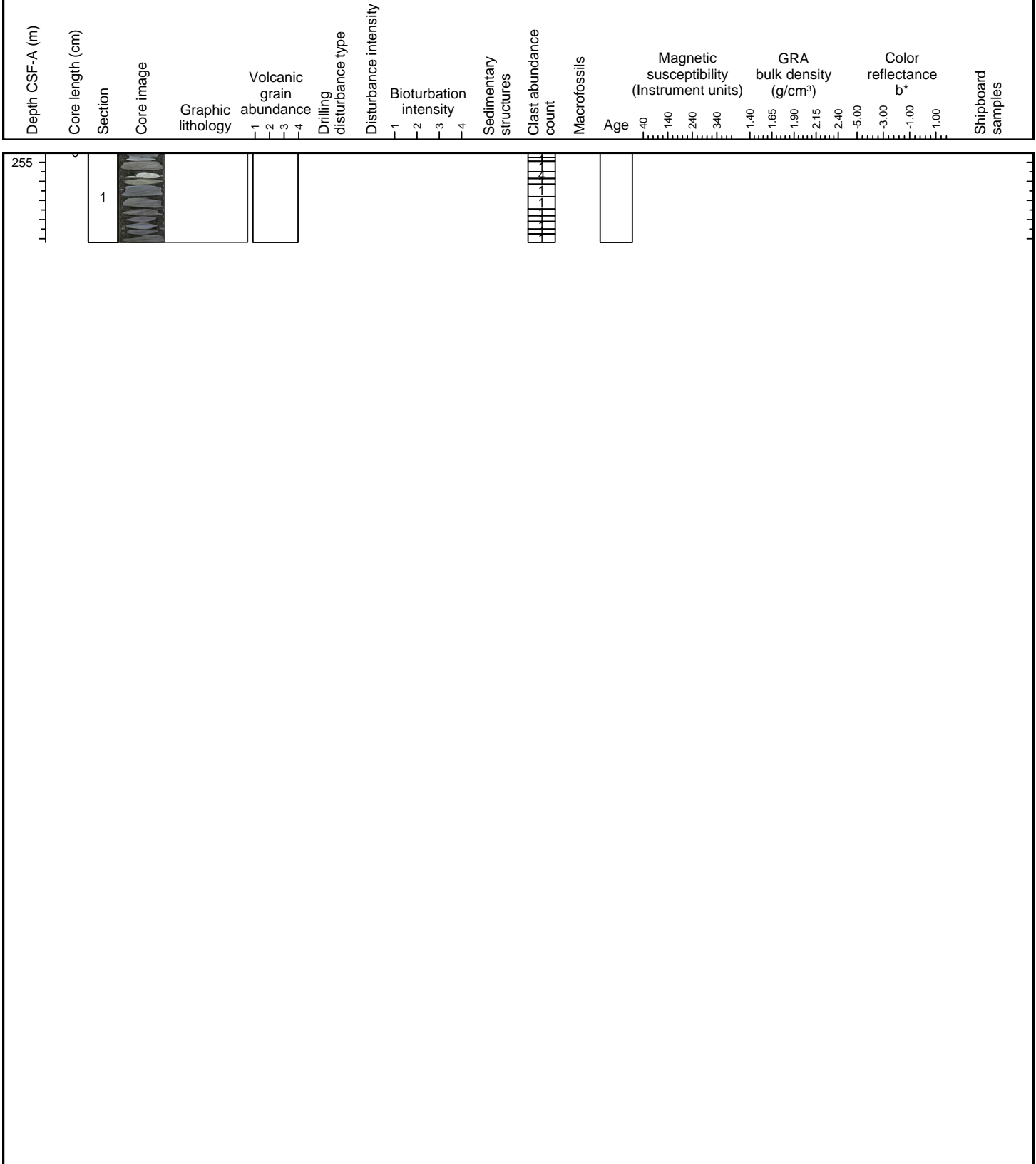




Hole 341-U1420A Core 28R, Interval 254.5-255.44 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

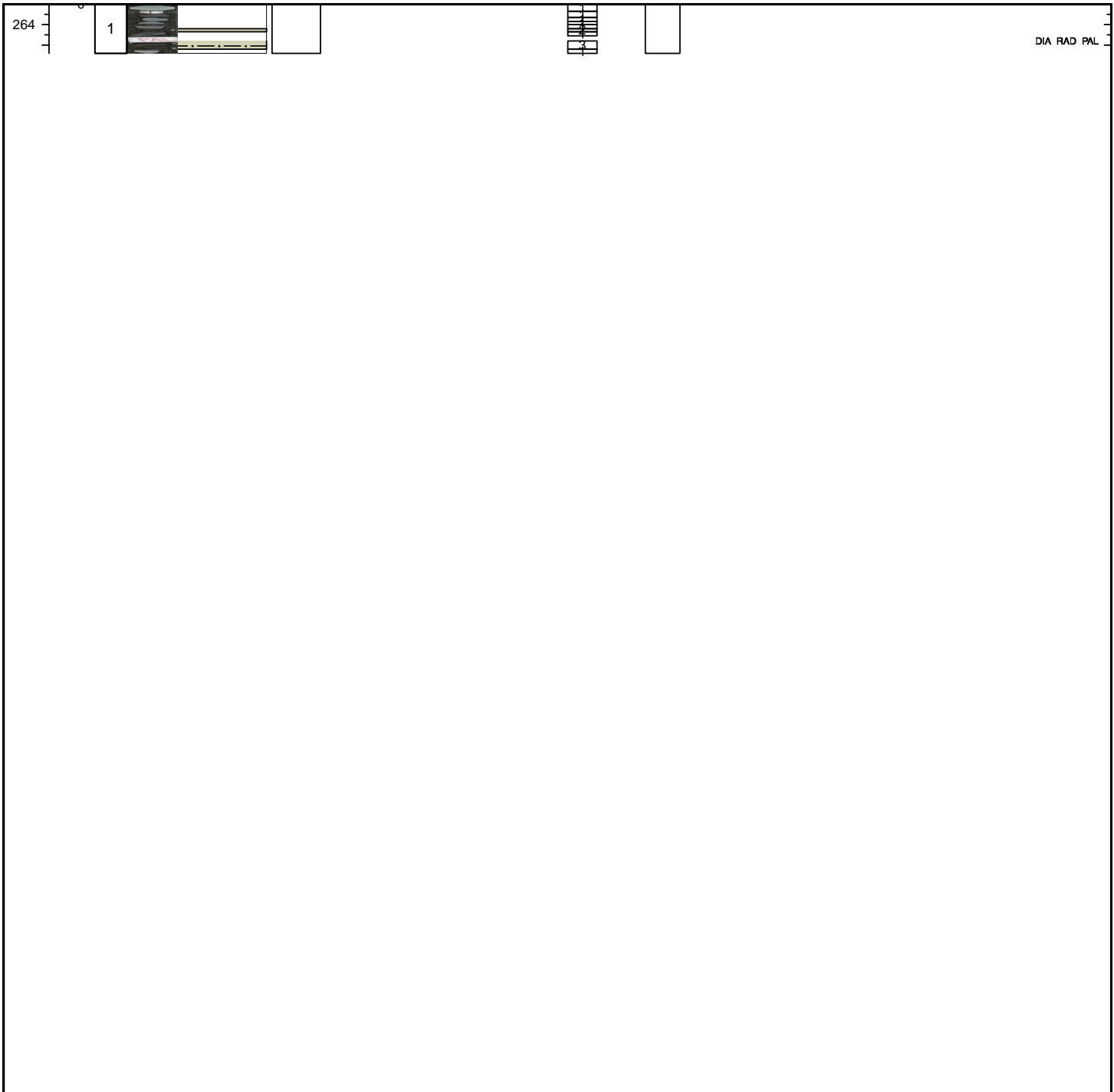
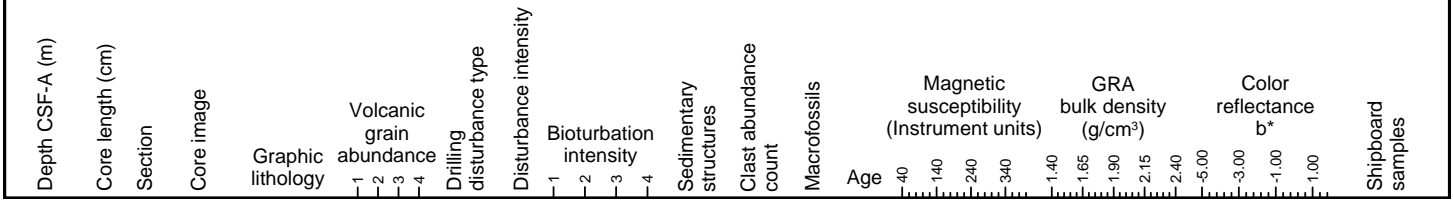
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include siltstone, sandstone, granite, rhyolite and basalt.



Hole 341-U1420A Core 29R, Interval 264.2-264.68 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED, MUD

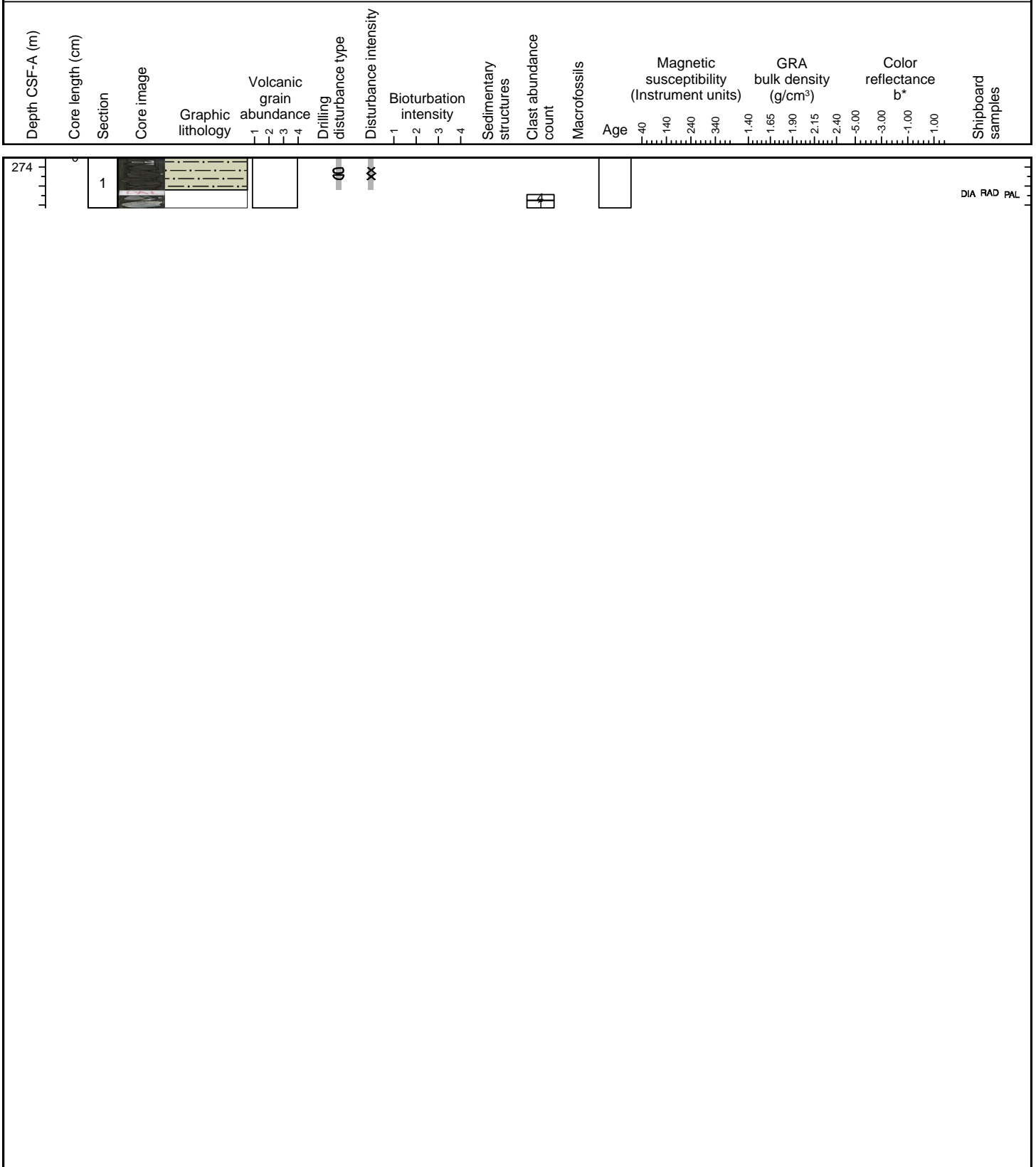
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include basalt, metasilstone, siltstone, gabbro, and sandstone. Very dark gray (N 3) mud is a minor lithology.



Hole 341-U1420A Core 30R, Interval 273.9-274.43 m (CSF-A)

MUD, MINOR LITHOLOGY NOT RECOVERED

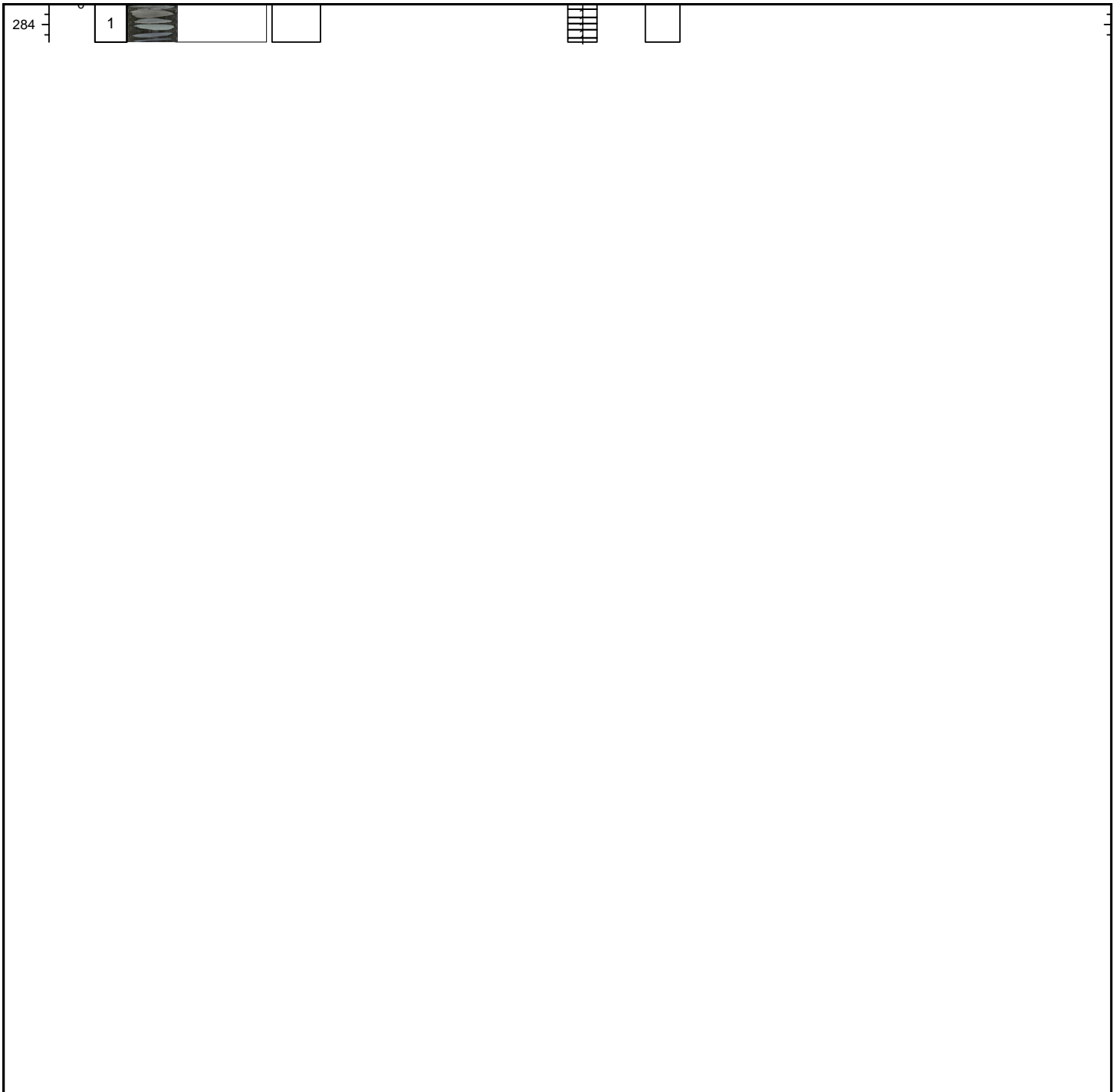
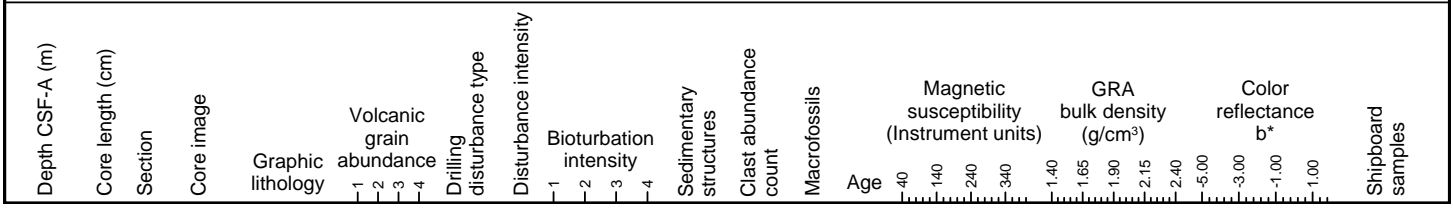
Very dark gray (N 3) mud with abundant clasts is the major lithology in the upper half of the core. No major lithology was recovered in the lower half of the core. Clasts lithologies include granitoid, quartz, siltstone, sandstone, and basalt.



Hole 341-U1420A Core 31R, Interval 283.6-283.97 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

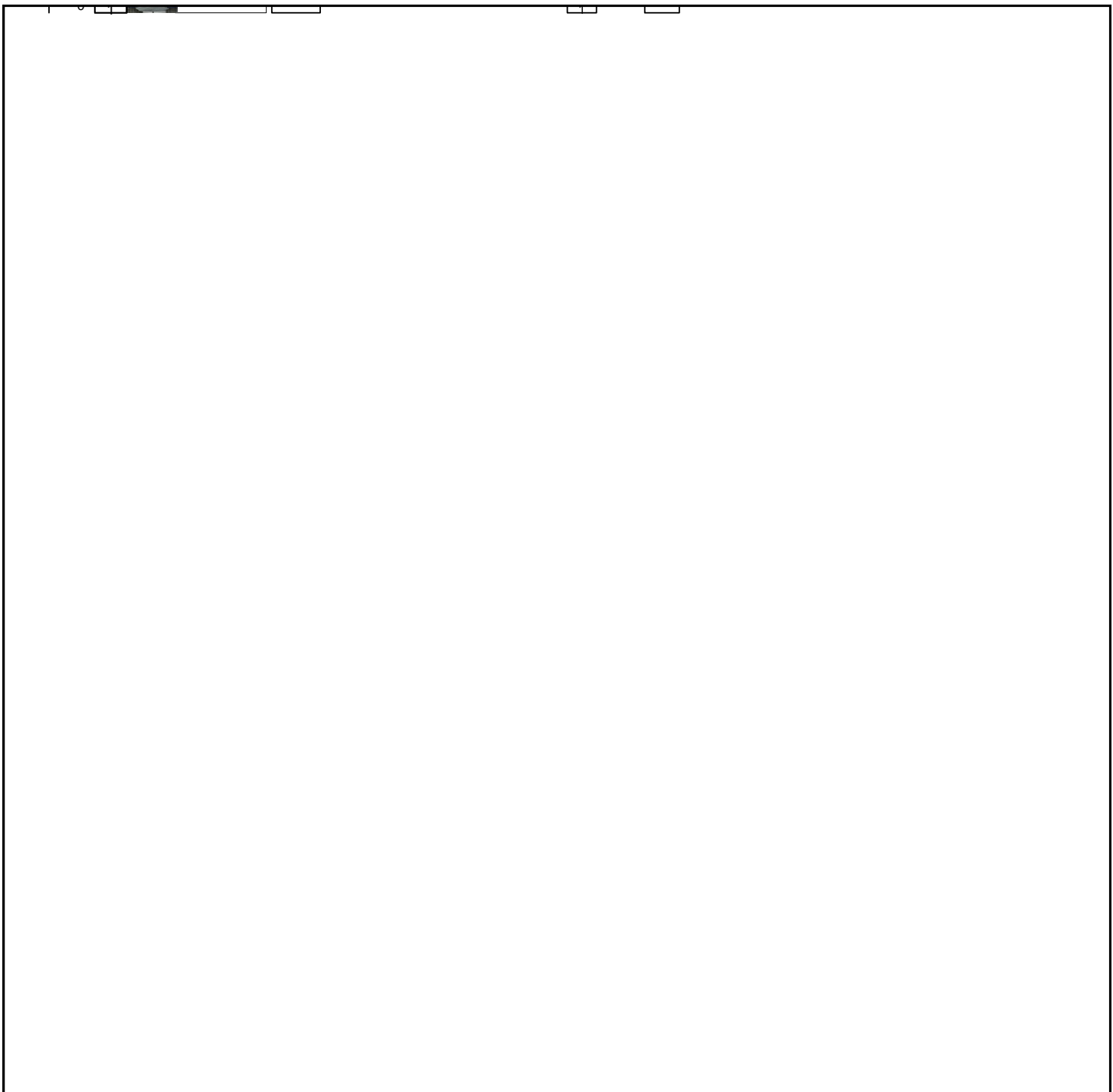
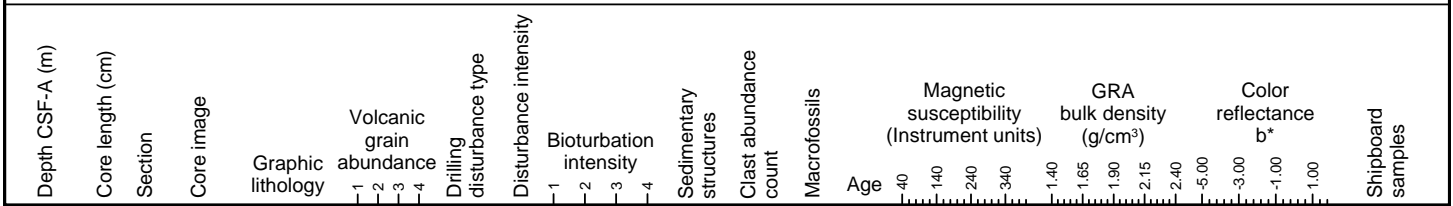
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include siltstone, sandstone, gneiss, granite and felsic volcanic breccia.



Hole 341-U1420A Core 32R, Interval 293.3-293.37 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

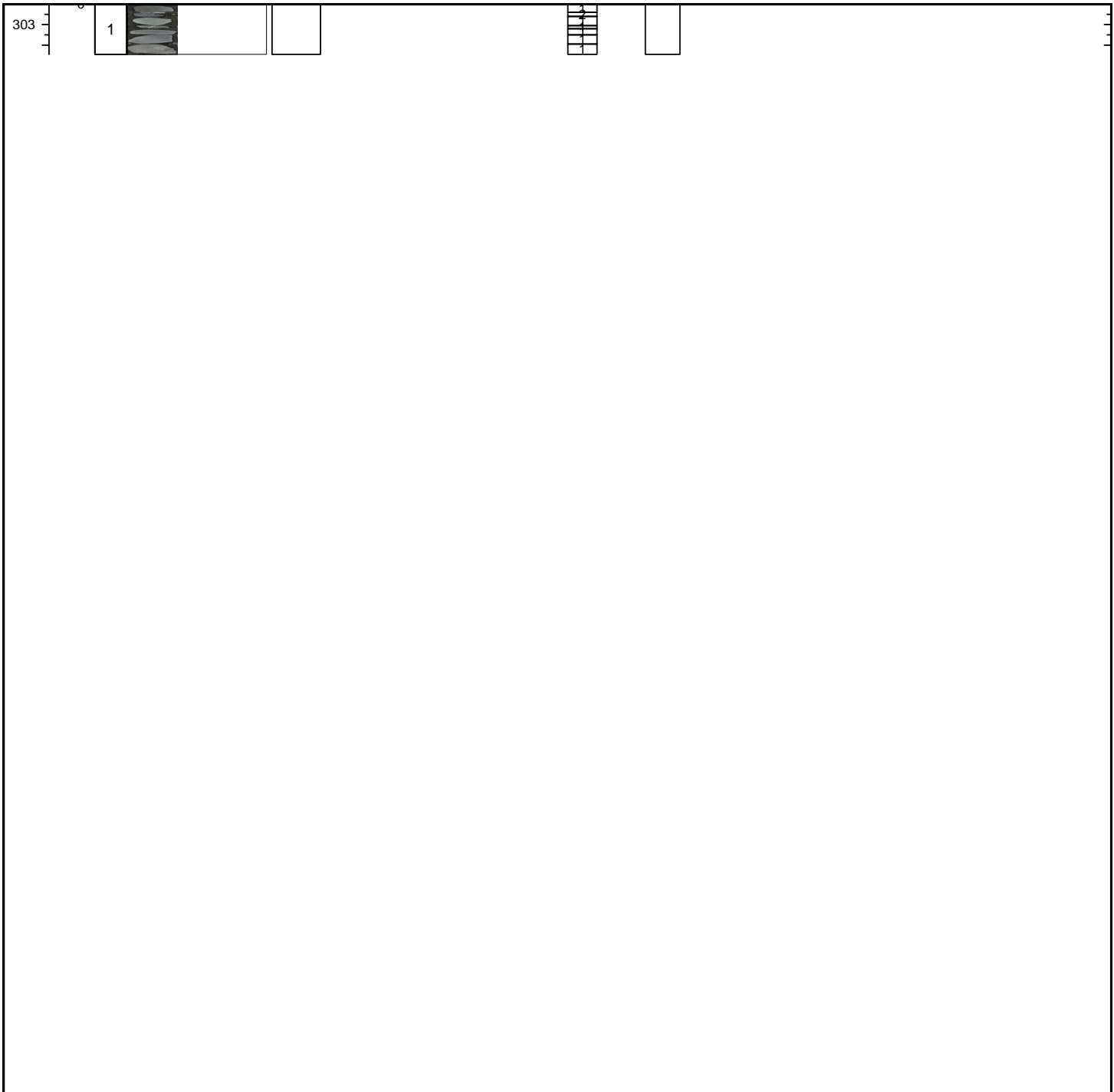
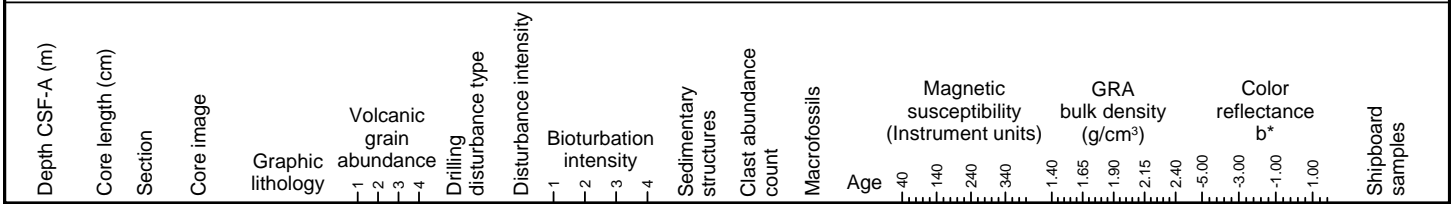
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithology is basalt.



Hole 341-U1420A Core 33R, Interval 303.0-303.49 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

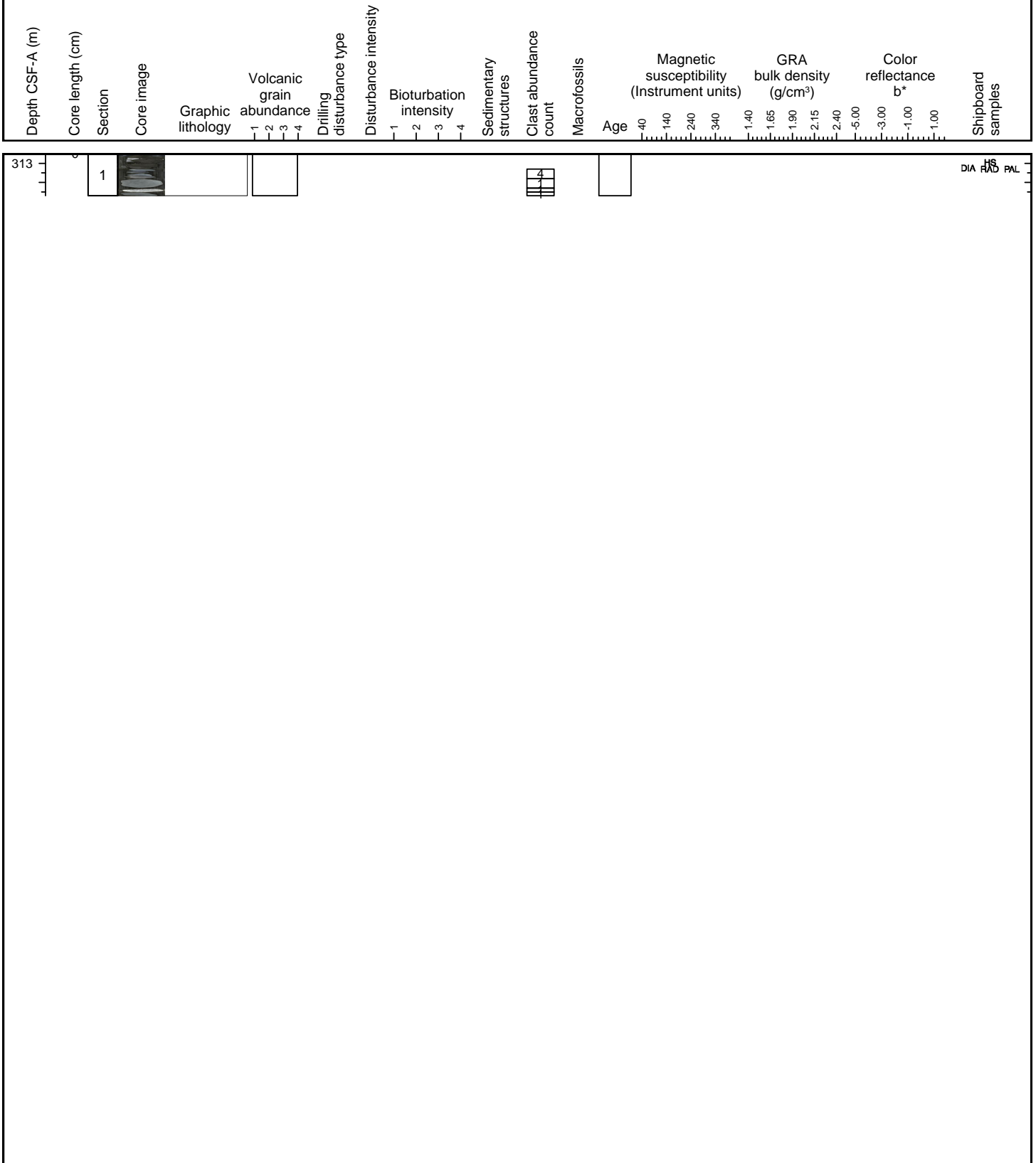
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include sandstone, greenstone, metasandstone, and gabbro.



Hole 341-U1420A Core 34R, Interval 312.7-313.14 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

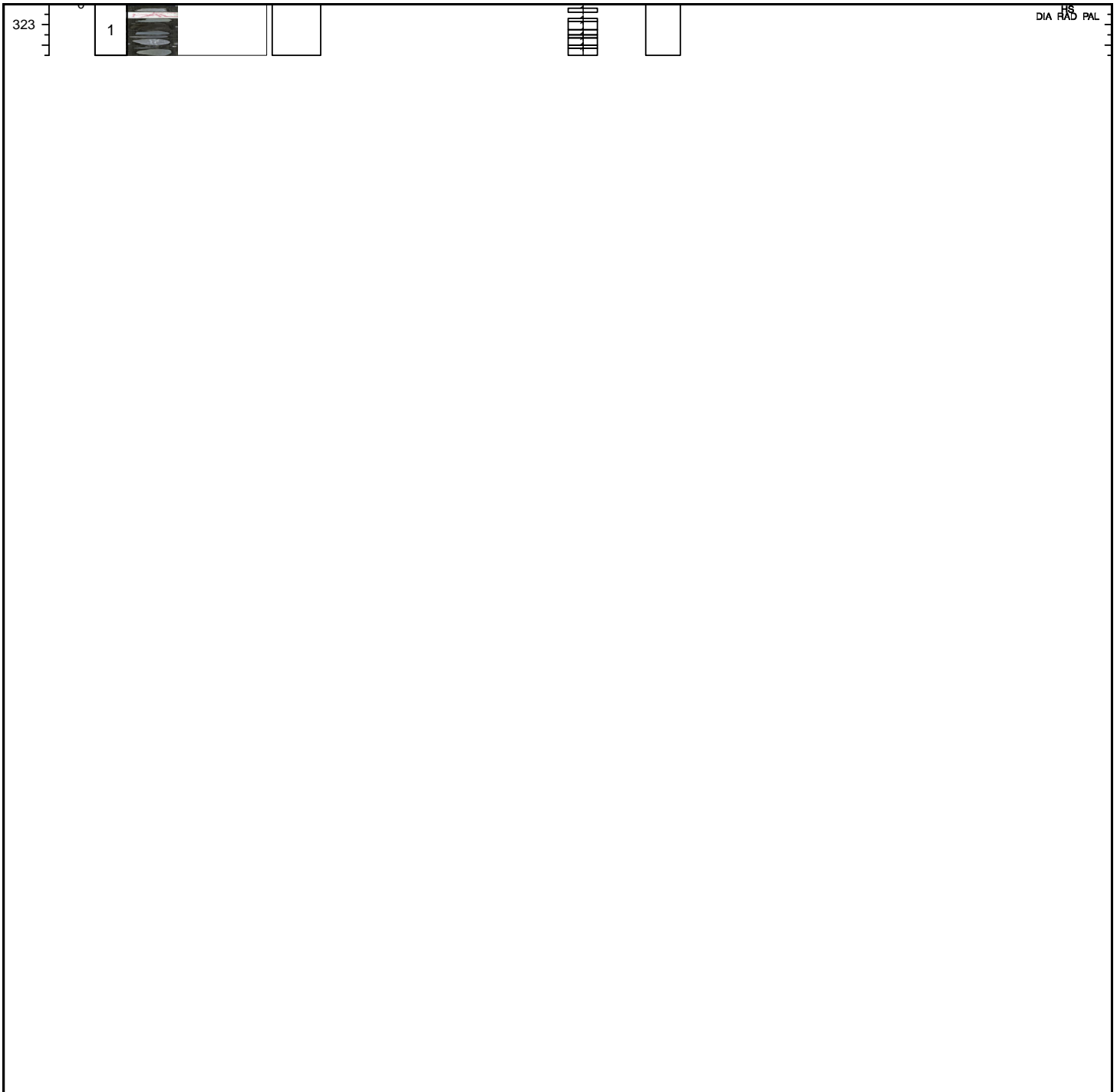
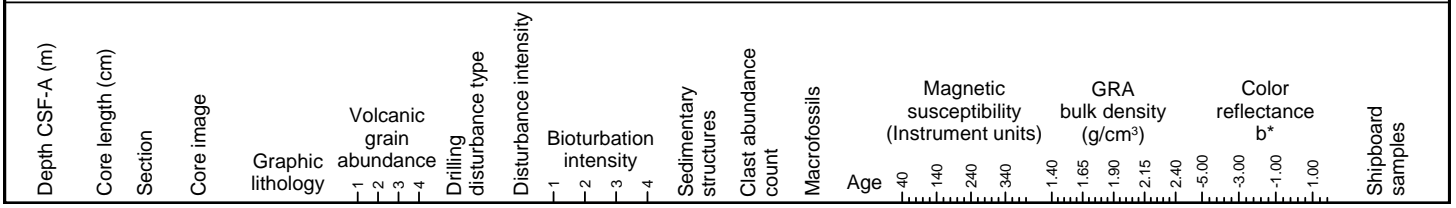
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include sandstone, metasilstone, and granite.



Hole 341-U1420A Core 35R, Interval 322.4-322.9 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include metasandstone, greenstone, and siltstone.

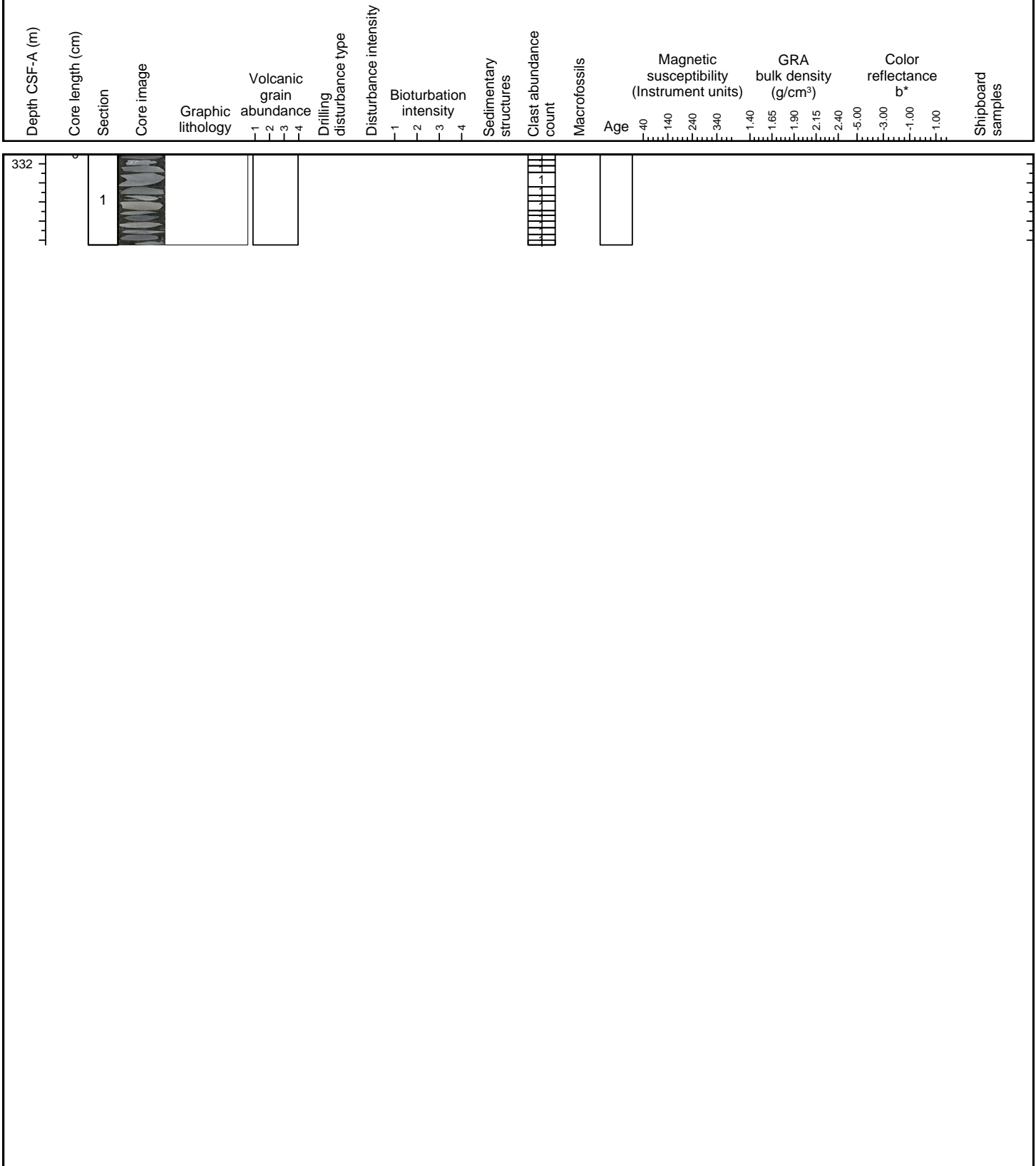




Hole 341-U1420A Core 36R, Interval 332.1-333.05 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

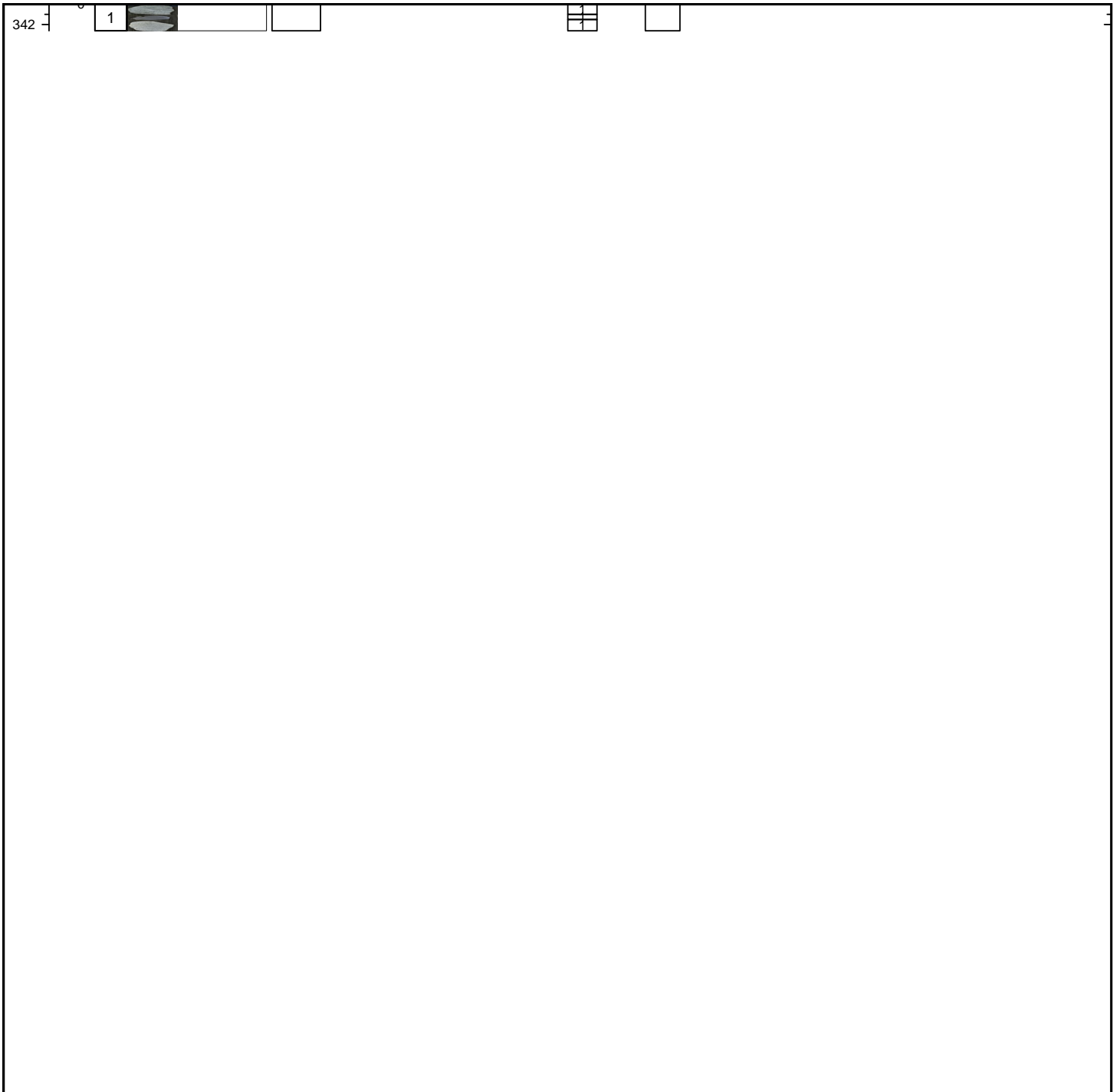
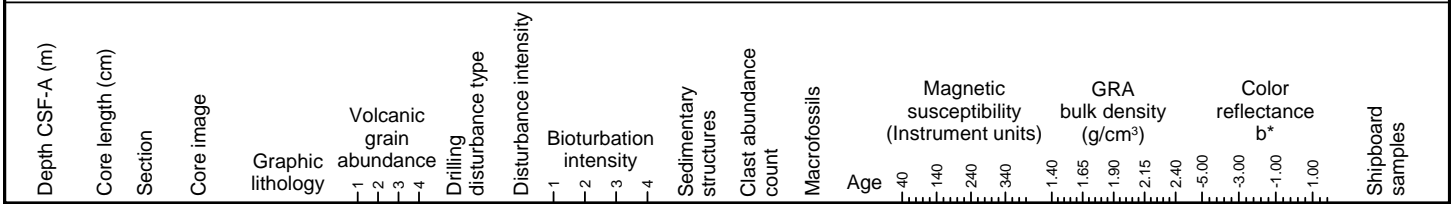
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include sandstone, metasandstone, greenstone, granite, rhyolite, gneiss, chert, siltstone, and metasiltstone.



Hole 341-U1420A Core 37R, Interval 341.8-342.06 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

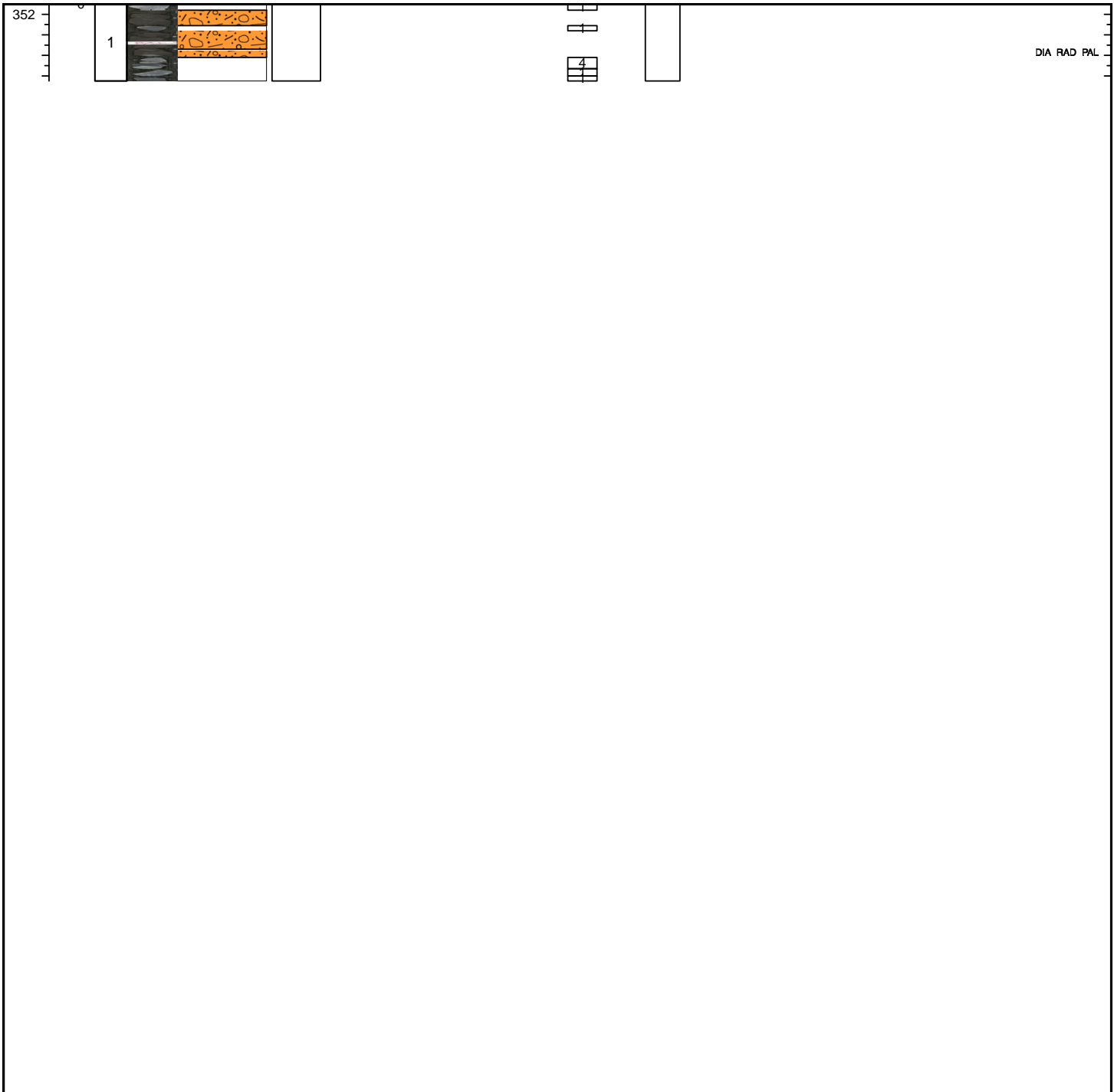
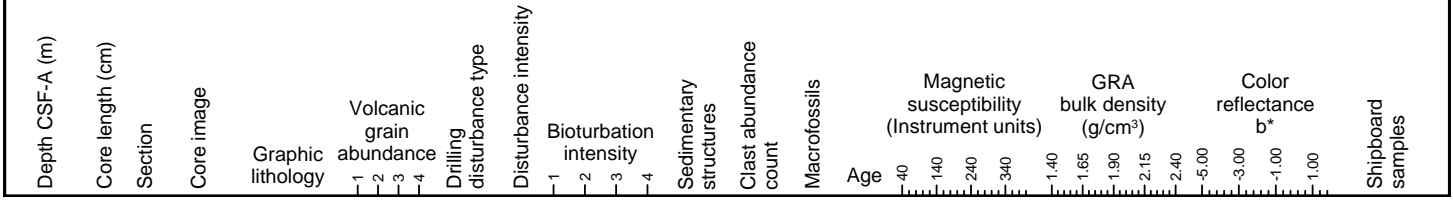
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include a metamorphic igneous rock, rhyolite, and granite.



Hole 341-U1420A Core 38R, Interval 351.5-352.25 m (CSF-A)

CLAST-RICH DIAMICT

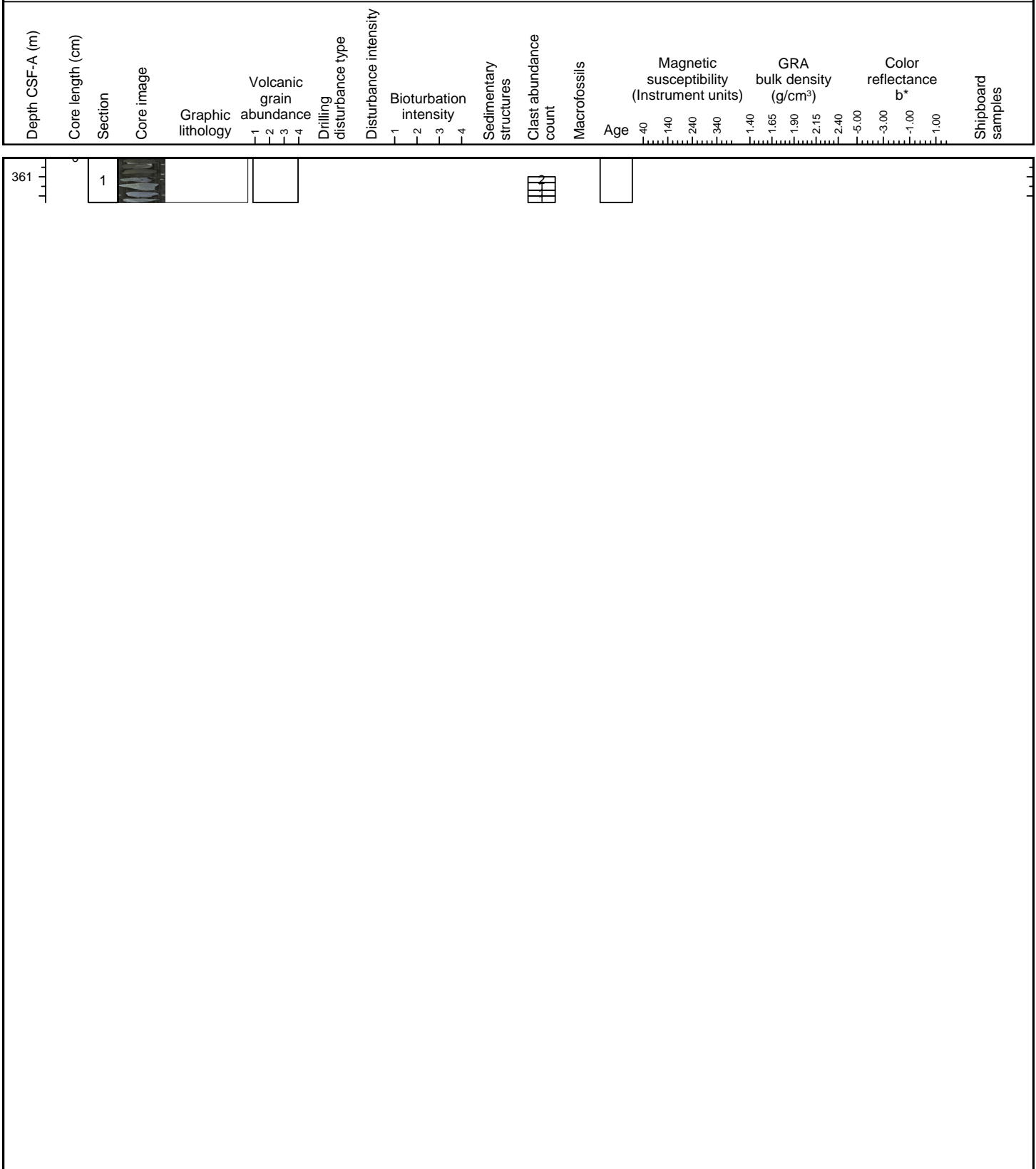
Very dark gray (N 3) clast rich-diamict with a sandy matrix is the major lithology. This core is heavily disturbed and most of the matrix material has been washed away while drilling. Clast lithologies include granite, rhyolite, greenstone, sandstone, metasandstone, siltstone.



Hole 341-U1420A Core 39R, Interval 361.2-361.67 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

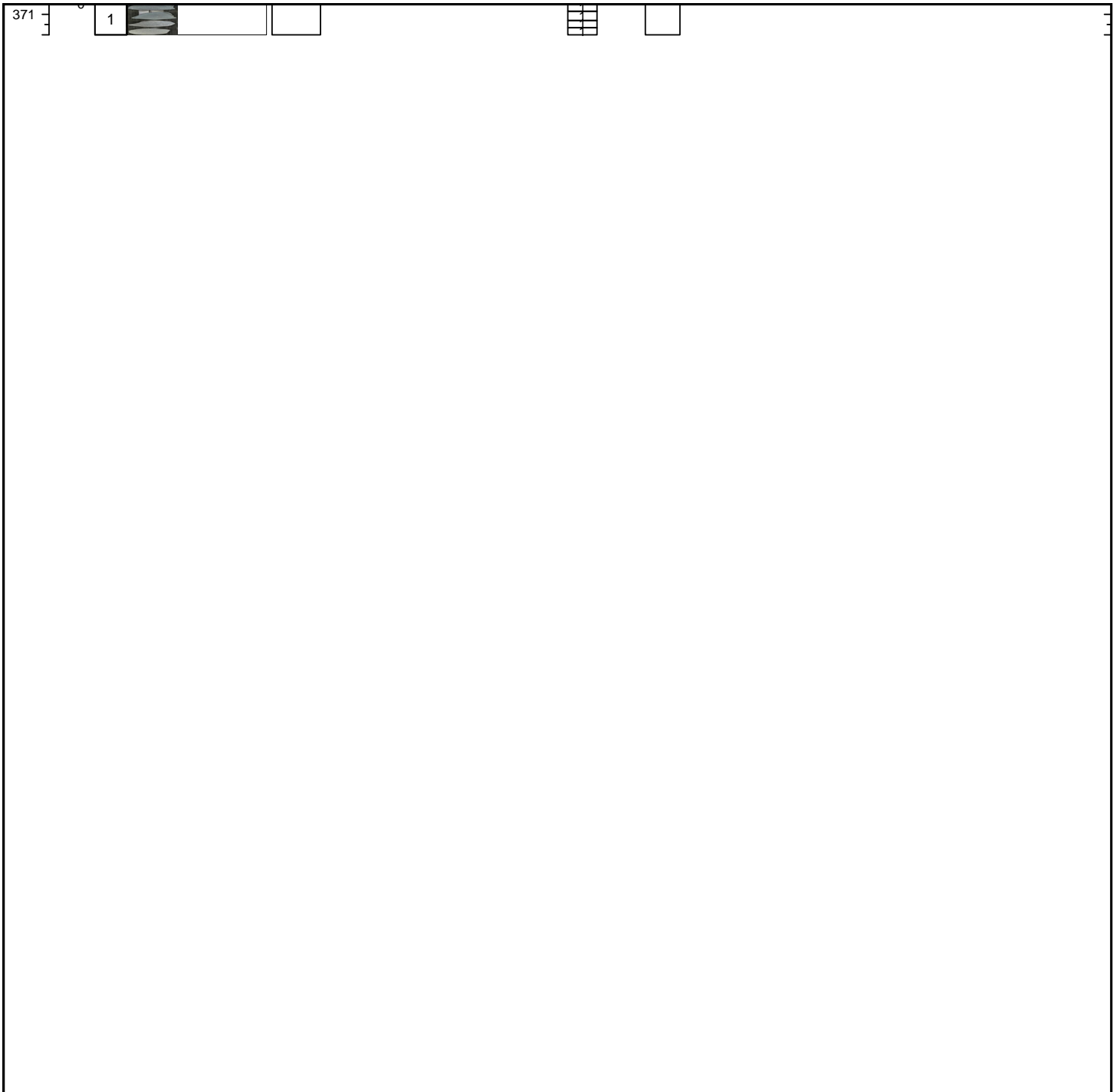
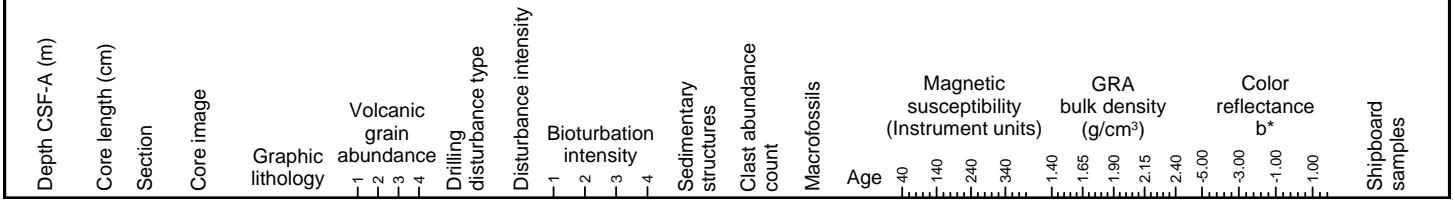
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include siltstone, metasandstone and greenstone.



Hole 341-U1420A Core 40R, Interval 370.9-371.2 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

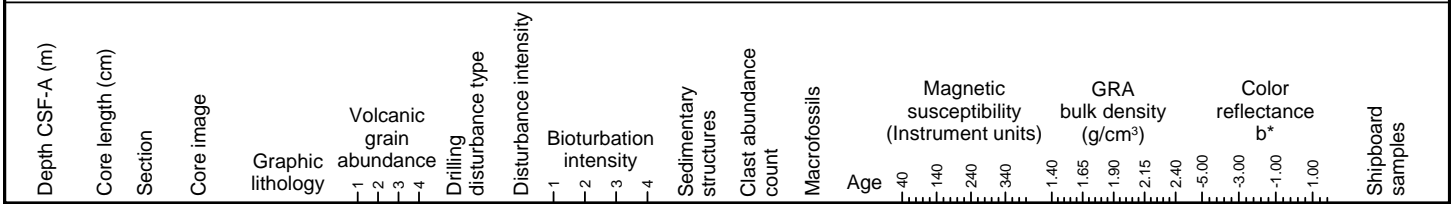
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include basalt, greenstone, granite, and sandstone.



Hole 341-U1420A Core 41R, Interval 380.6-380.89 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

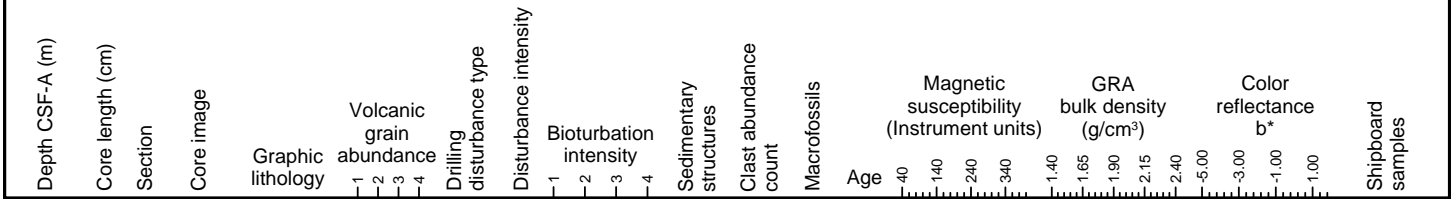
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include metasandstone, siltstone, sandstone, mudstone, and garnetiferous gneiss.



Hole 341-U1420A Core 42R, Interval 390.3-390.83 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED, MUD

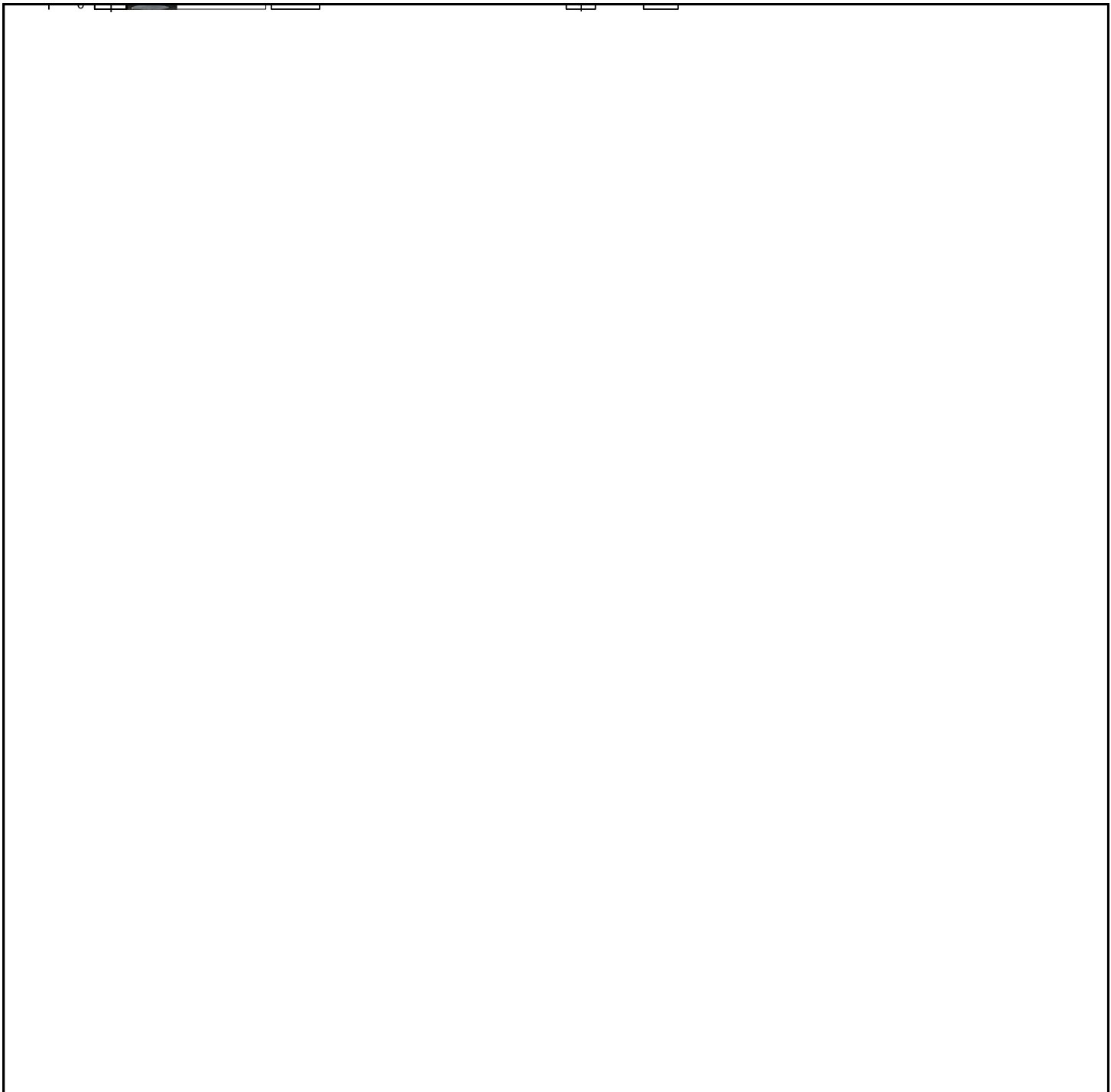
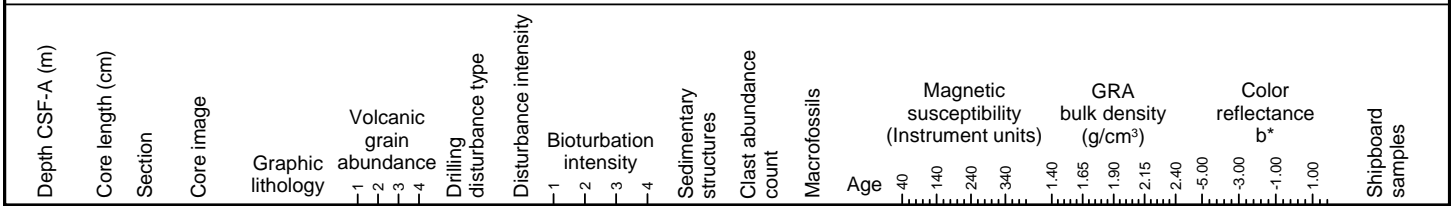
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include granitoid, sandstone, metasandstone, and siltstone. Very dark gray (N 3) mud with dispersed clasts is a minor lithology.



Hole 341-U1420A Core 43R, Interval 400.0-400.05 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

No major lithology recovered. Matrix material has been washed away while drilling. Clast lithology includes siltstone.

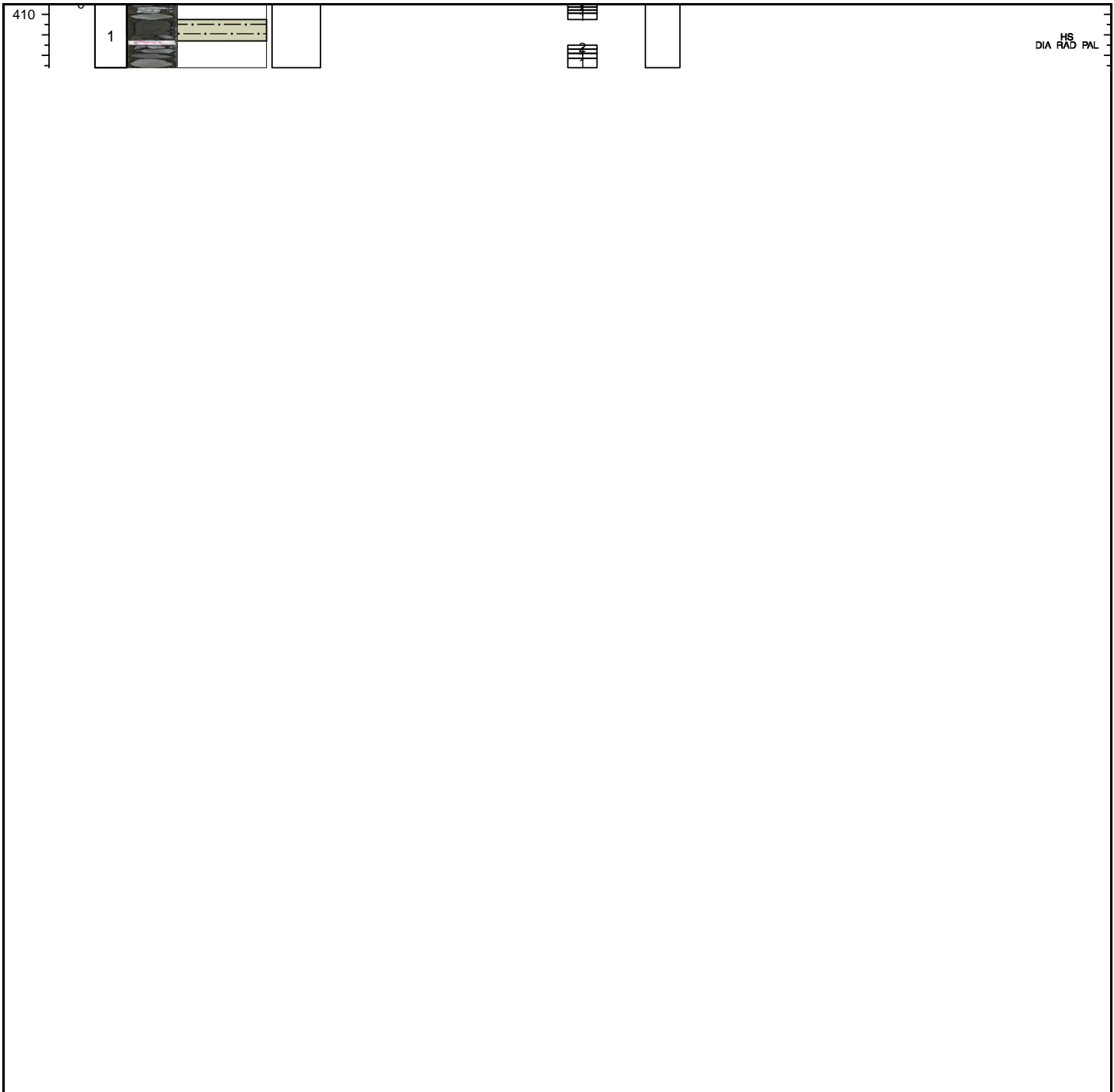
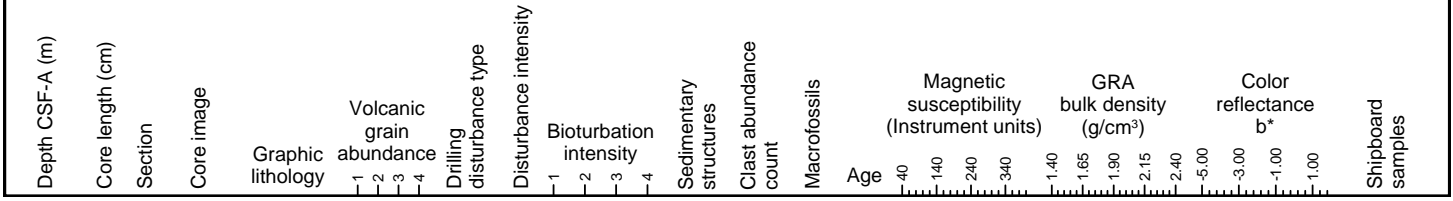




Hole 341-U1420A Core 44R, Interval 409.7-410.32 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED, MUD

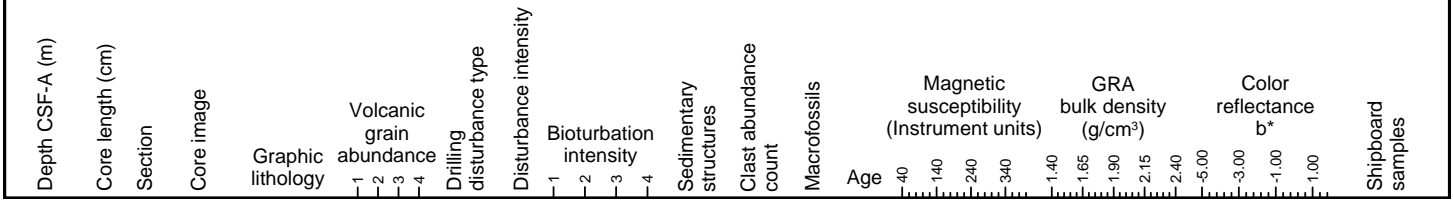
No major lithology recovered. Very dark gray (N 3) mud with common clasts is a minor lithology in bin 5. Matrix material has been washed away while drilling. Clast lithologies include siltstone, sandstone, granite and foliated granite.



Hole 341-U1420A Core 45R, Interval 419.4-419.89 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

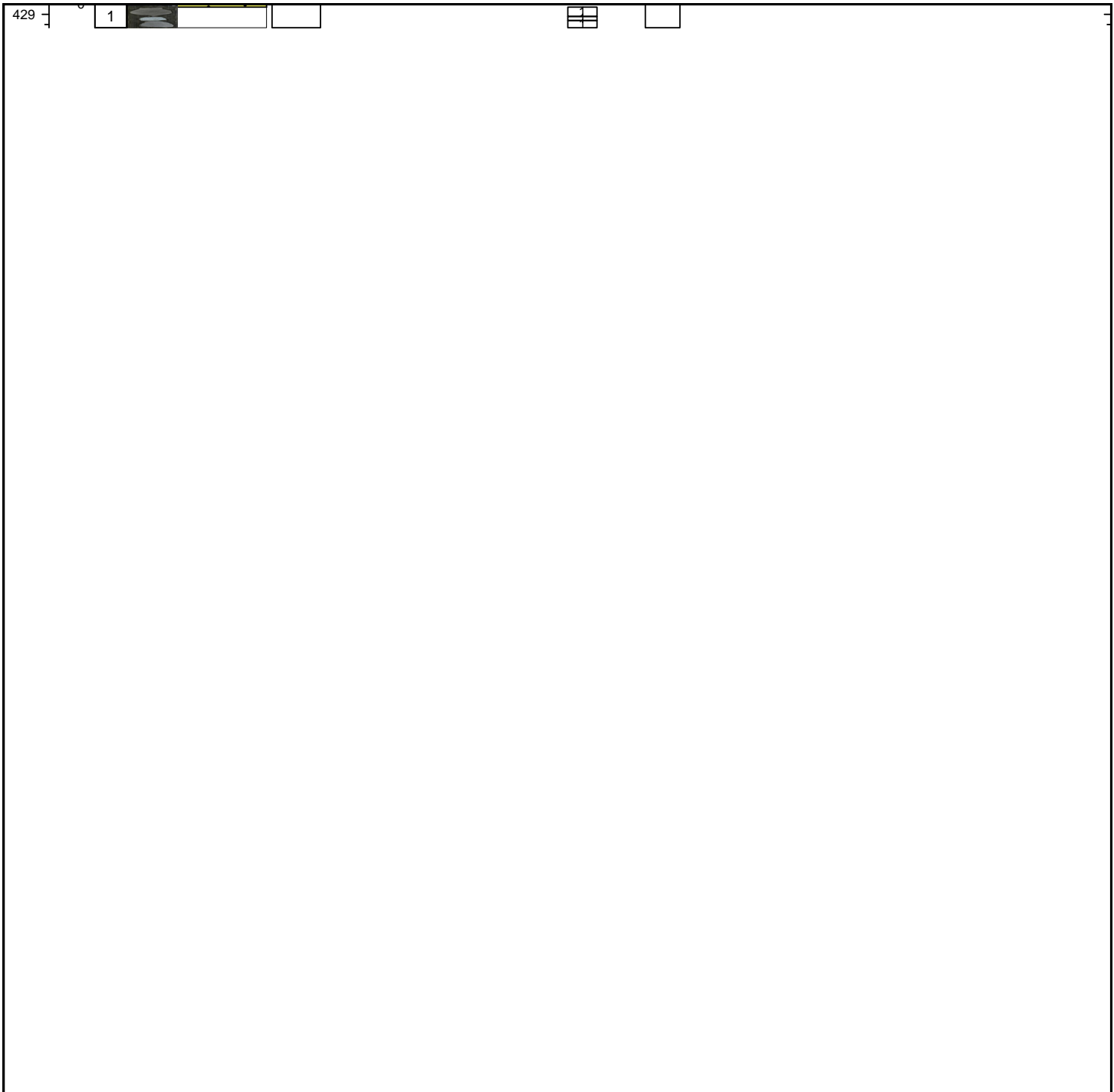
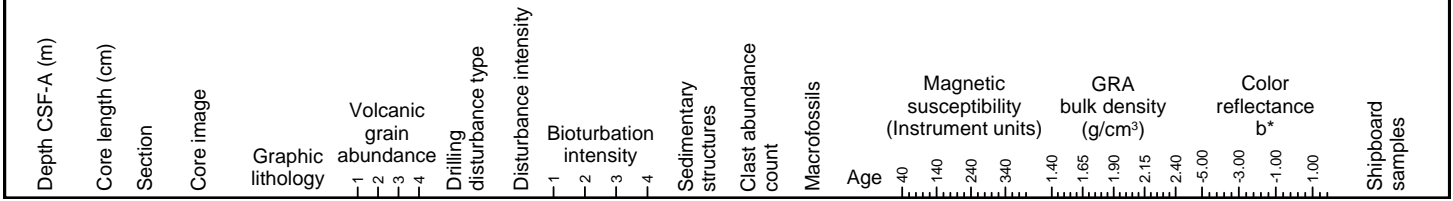
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include siltstone, sandstone, sandstone with biotite, rhyolite, biotite mica schist, greenstone and schist.



Hole 341-U1420A Core 46R, Interval 429.1-429.33 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED, SAND

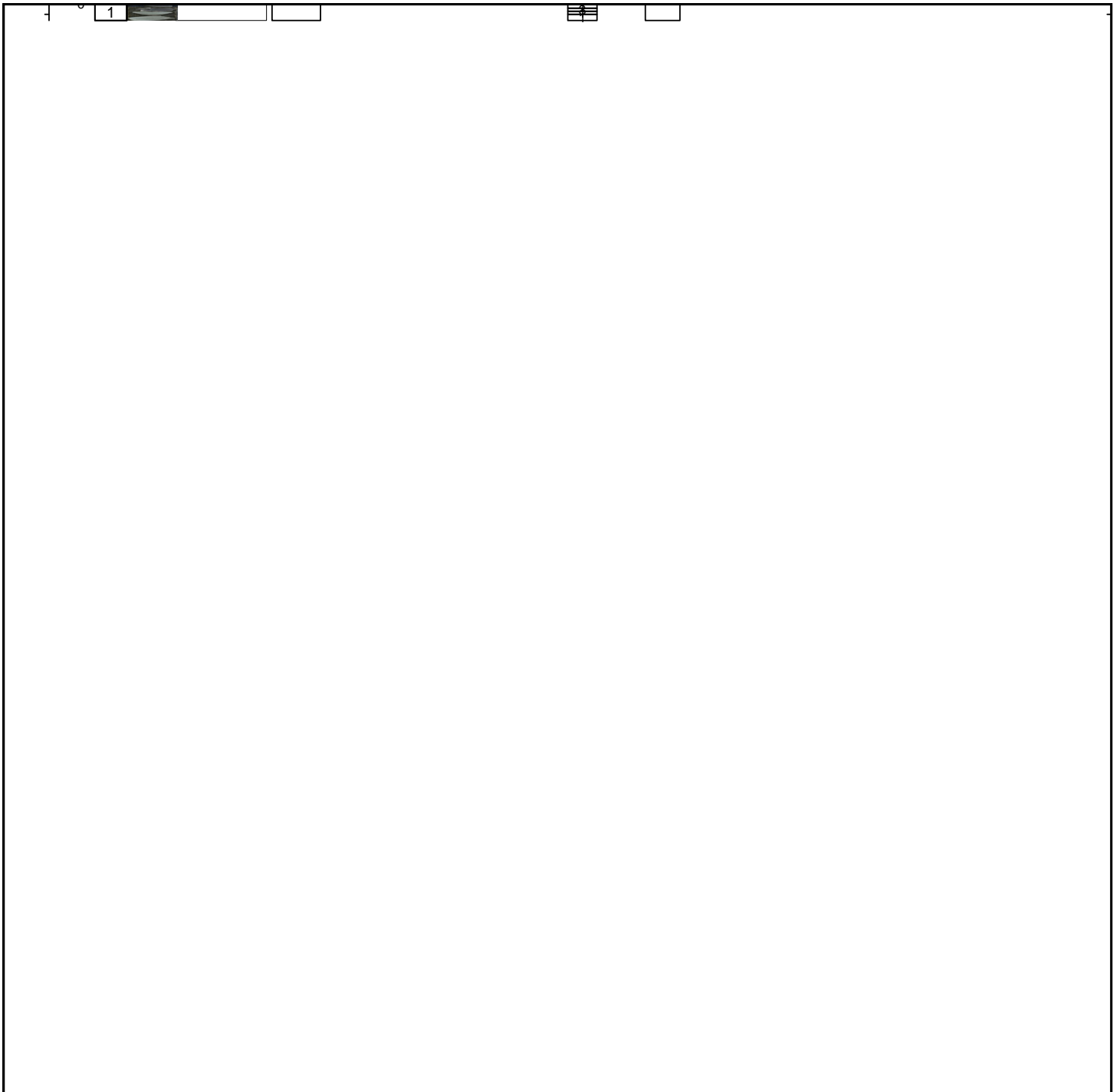
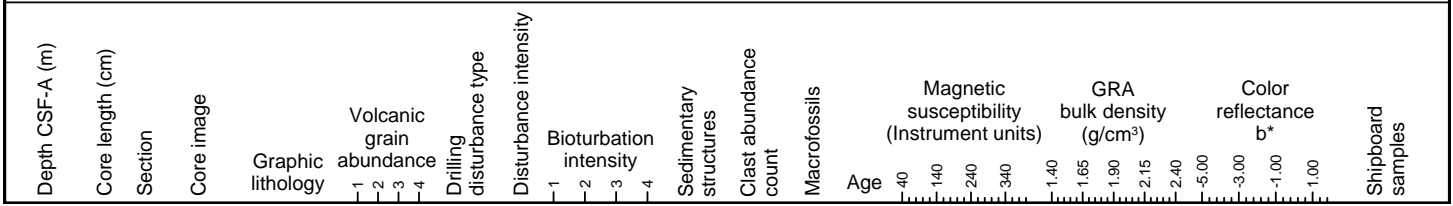
No major lithology recovered. Very dark gray (N 3) muddy sand is a minor lithology in bin 1. Matrix material has been washed away while drilling. Clast lithologies include sandstone, dacite and basalt.



Hole 341-U1420A Core 47R, Interval 438.8-438.96 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

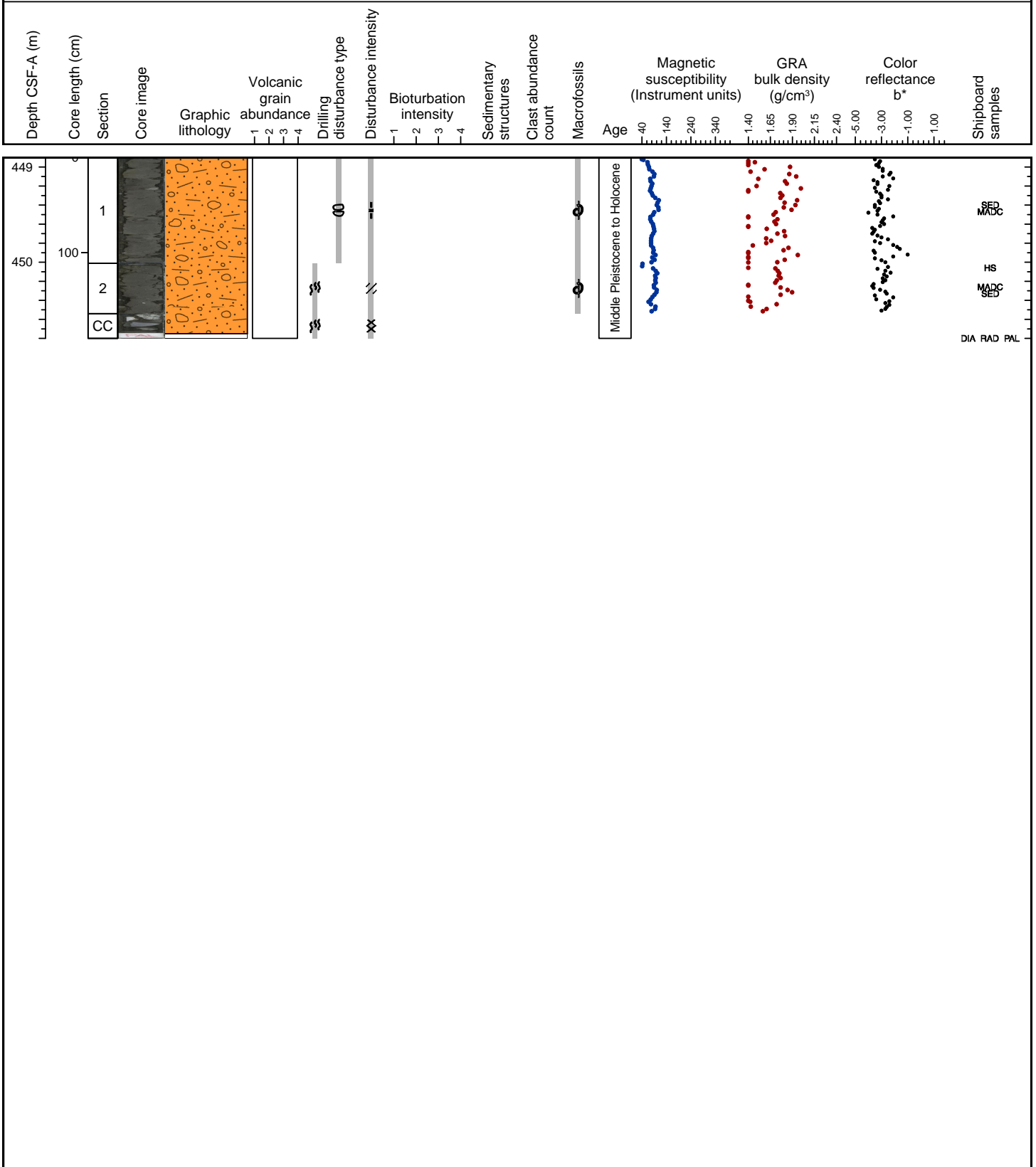
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include siltstone and green sandstone.



Hole 341-U1420A Core 48R, Interval 448.5-450.4 m (CSF-A)

CLAST-POOR DIAMICT

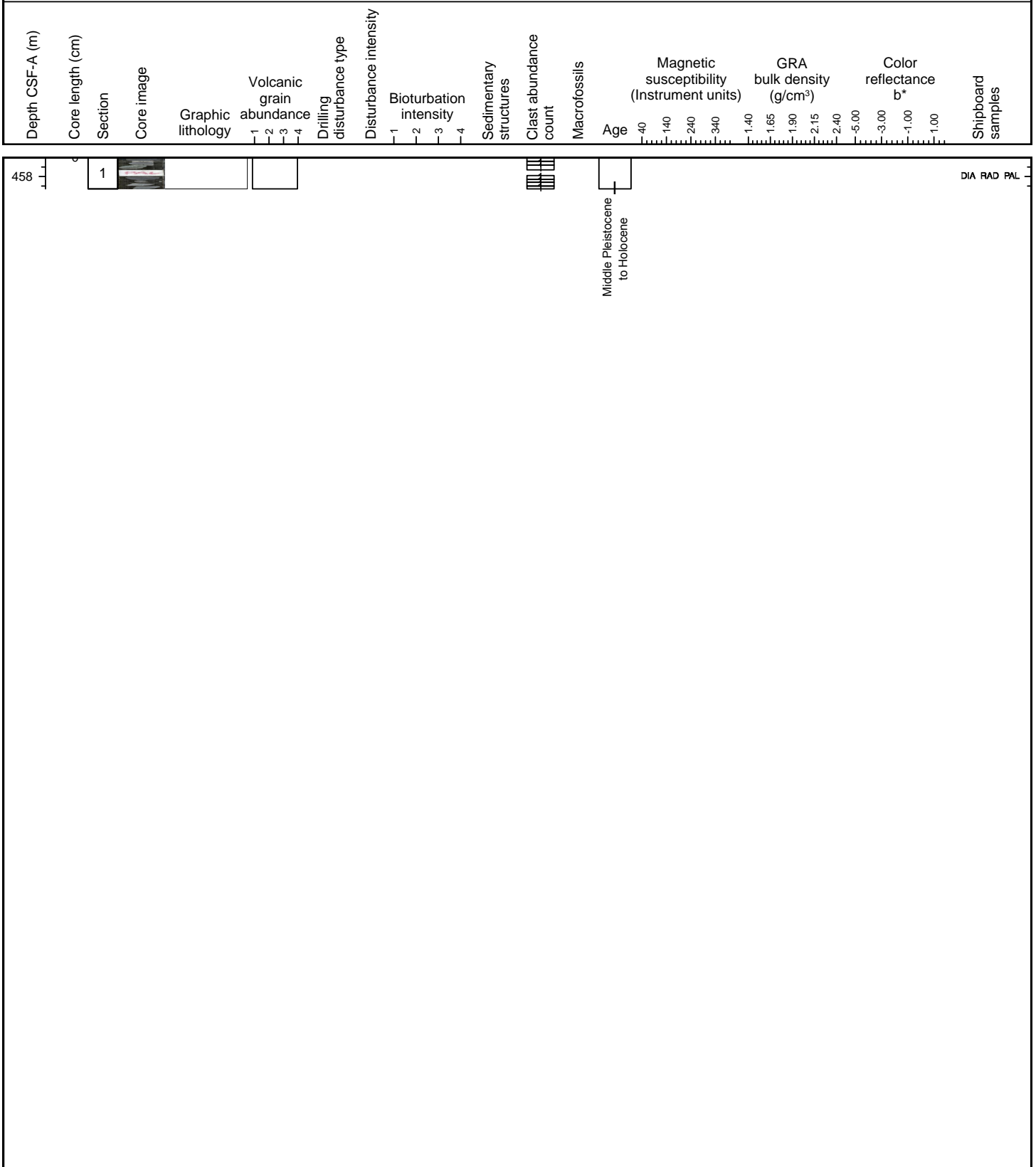
Very dark gray (N 3) sandy clast-poor diamict is the major lithology. Clast lithologies include siltstone, sandstone, quartz, granitoid, basalt, argillite, granite, and arkosic sandstone. Reflectance data not collected for CC due to damaged core material.



Hole 341-U1420A Core 49R, Interval 458.2-458.53 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

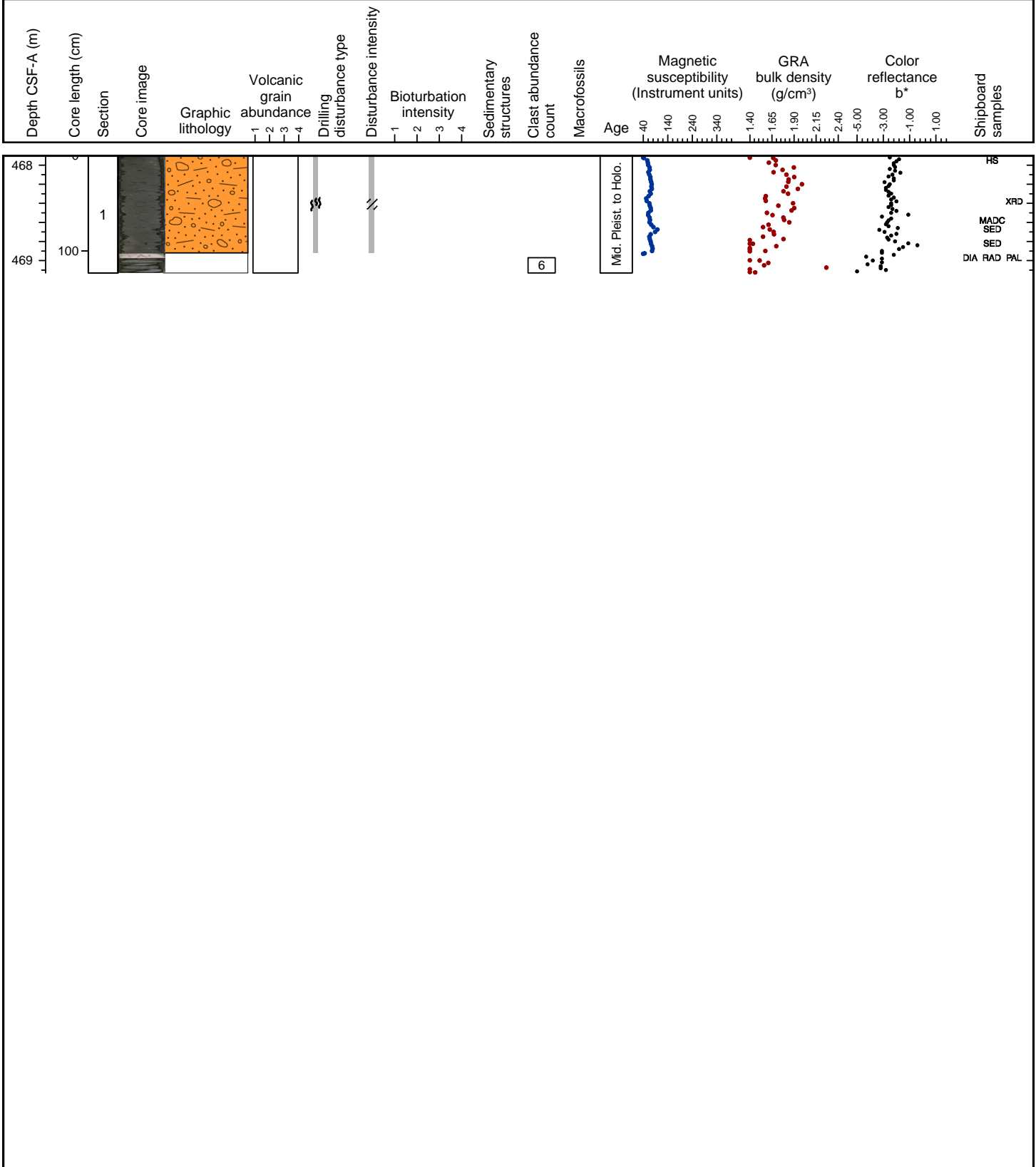
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include siltstone, sandstone and vesicular basalt.



Hole 341-U1420A Core 50R, Interval 467.9-469.13 m (CSF-A)

CLAST-POOR DIAMICT, MINOR LITHOLOGY NOT RECOVERED

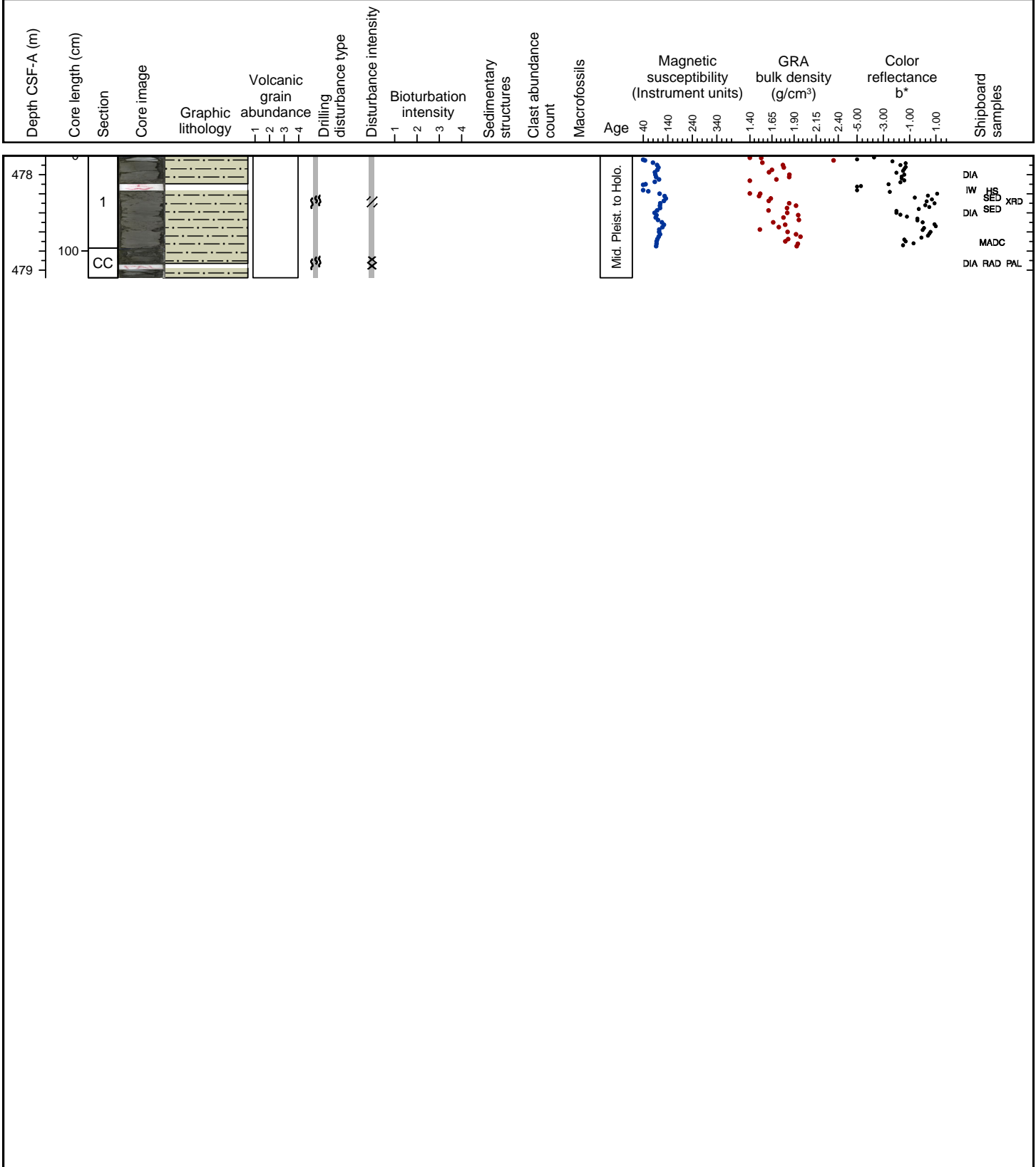
Very dark gray (N 3) sandy clast-poor diamict is the major lithology. No major lithology was recovered below the PAL sample. Clasts lithologies include siltstone, sandstone, conglomerate, basalt, mudstone, granitoid, and quartz.



Hole 341-U1420A Core 51R, Interval 477.6-478.88 m (CSF-A)

MUD, MINOR LITHOLOGY NOT RECOVERED

Very dark gray (N 3) silty mud with dispersed or common clasts is the major lithology. No major lithology was recovered below the PAL sample in Section CC. Clasts lithologies include sandstone, greywacke and granitoid.

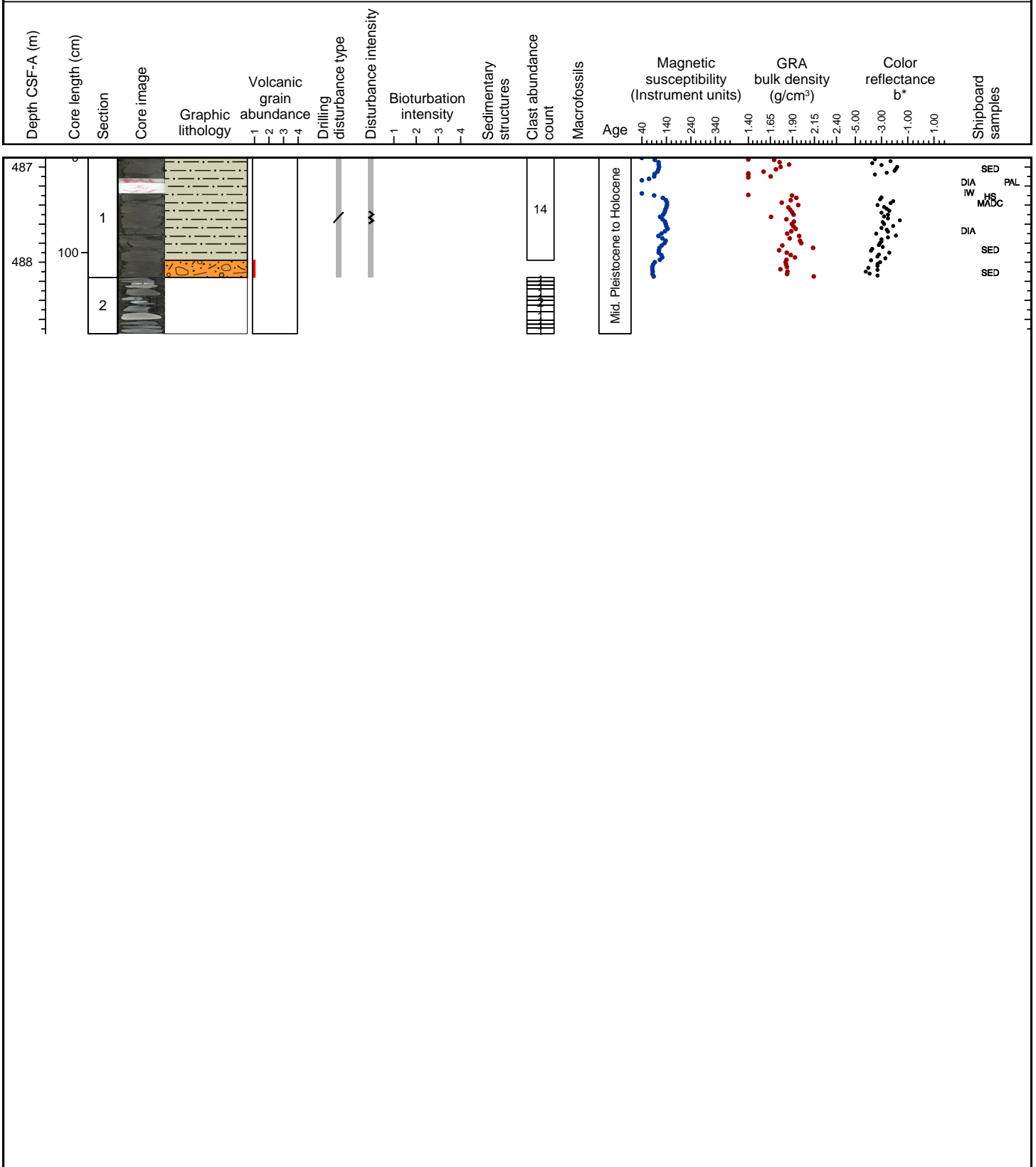




Hole 341-U1420A Core 52R, Interval 487.3-489.15 m (CSF-A)

MUD, CLAST-RICH DIAMICT

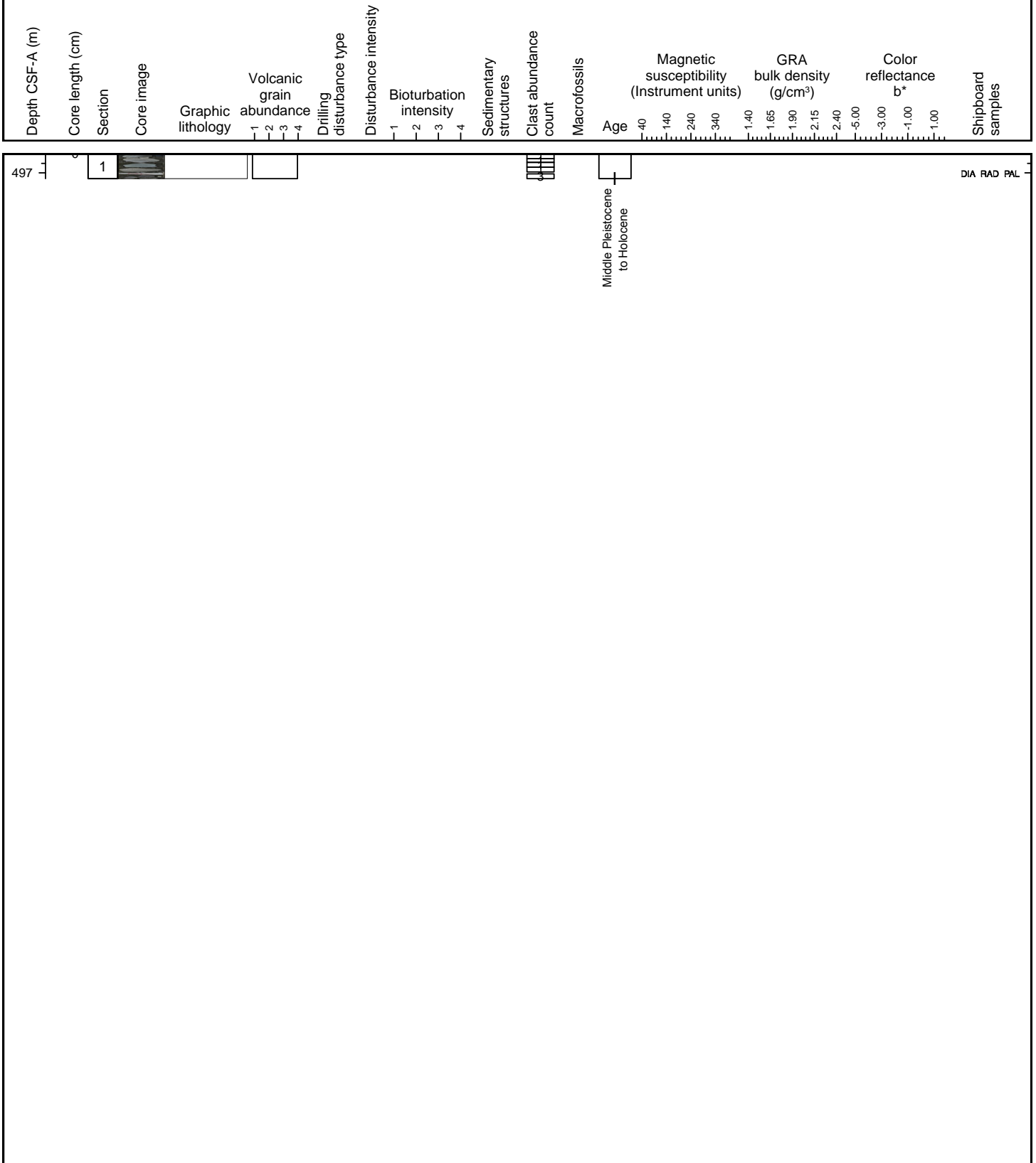
Dark gray (N 4) sandy mud with dispersed clasts is the major lithology. Very dark gray (N 3) clast-rich diamict with a sandy matrix that contains granules and pebbles (up to 0.8 cm) of silt-, and greenstone is the minor lithology. The diamict contains trace amounts of volcanic ash. In Section 2 the matrix has been washed away while drilling (no major lithology recovered). Clast lithologies include silt- and sandstone, granite, and metamorphic rocks.



Hole 341-U1420A Core 53R, Interval 497.0-497.26 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

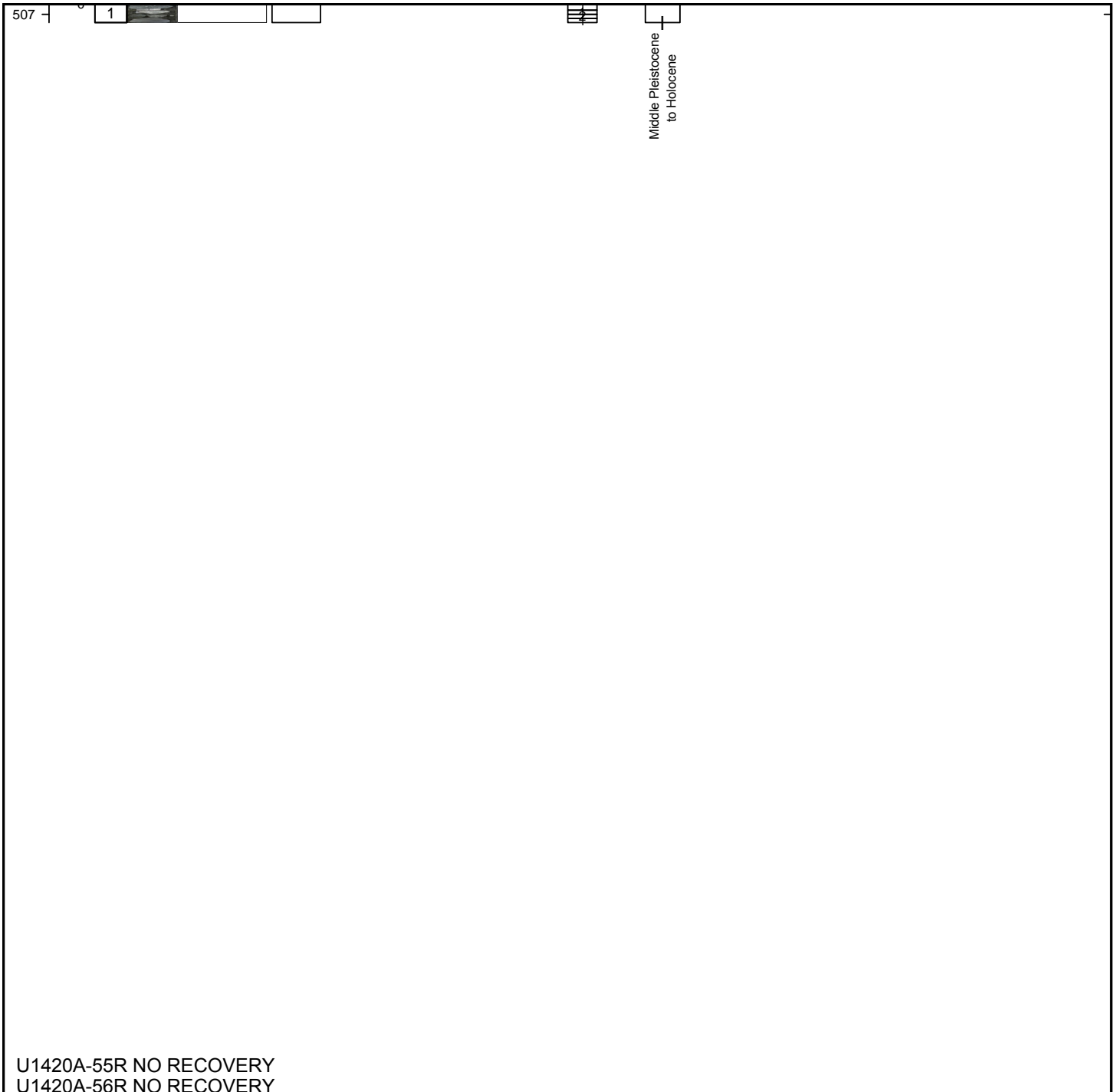
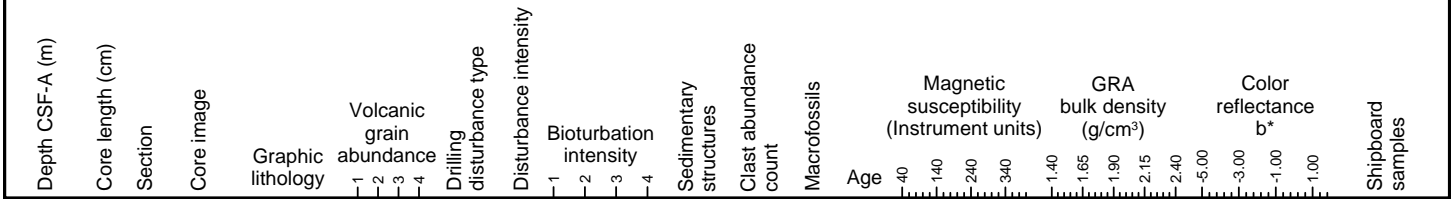
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include sandstone, greywacke, granite, and (laminated) siltstone.



Hole 341-U1420A Core 54R, Interval 506.7-506.88 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include vesicular basalt, granite, metasandstone, and siltstone.

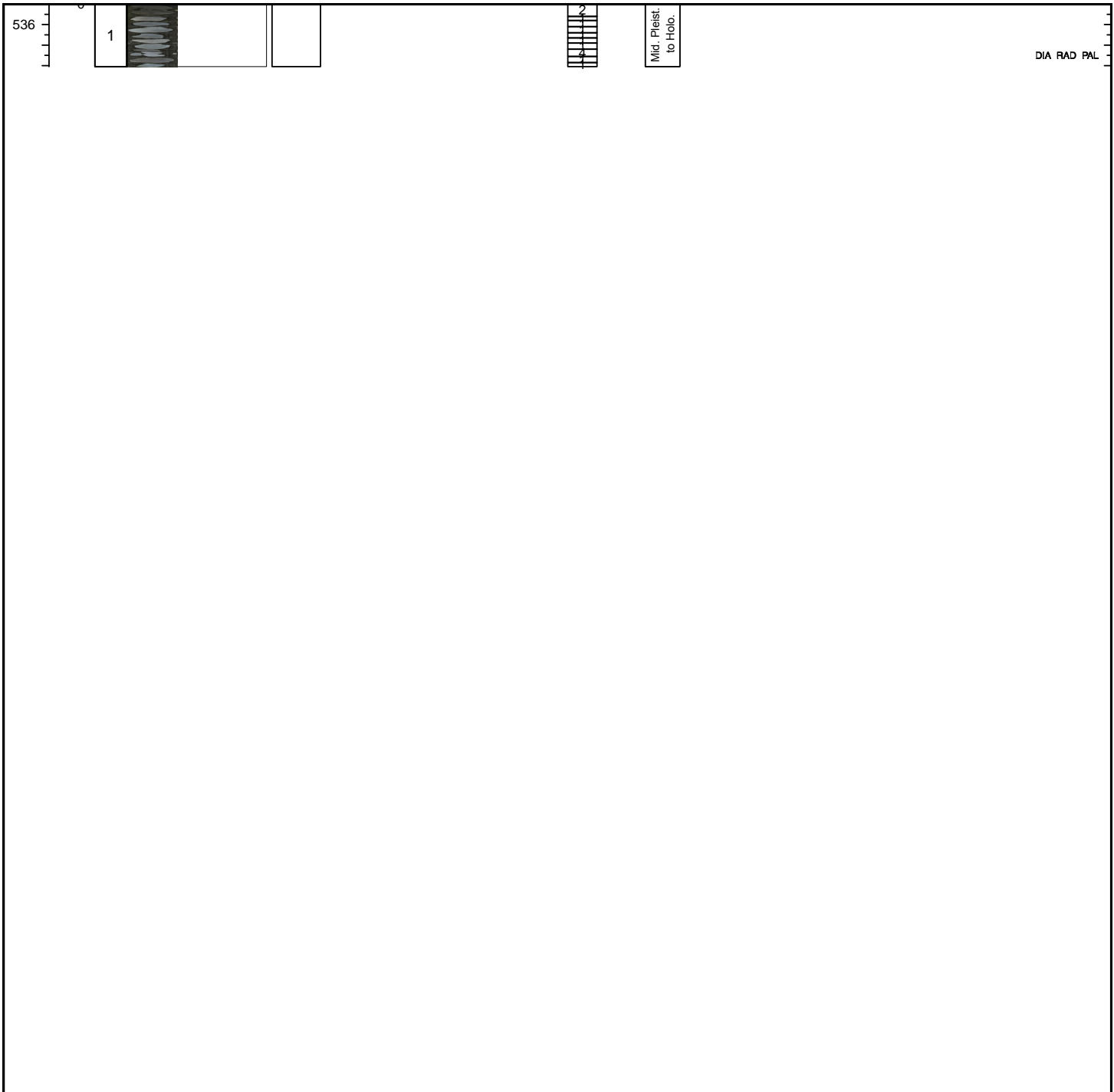
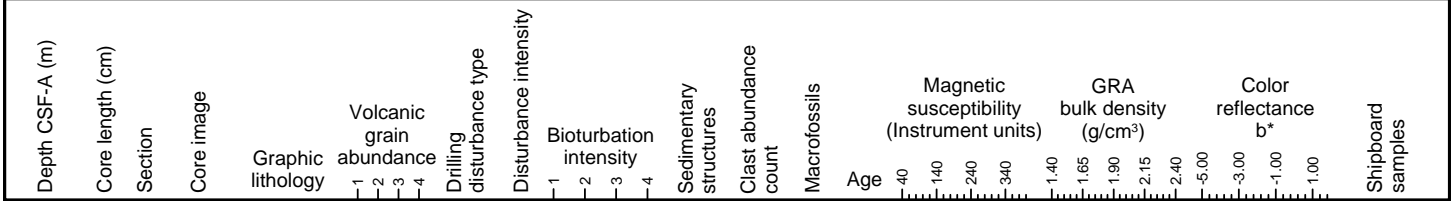


U1420A-55R NO RECOVERY  
 U1420A-56R NO RECOVERY

Hole 341-U1420A Core 57R, Interval 535.8-536.41 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

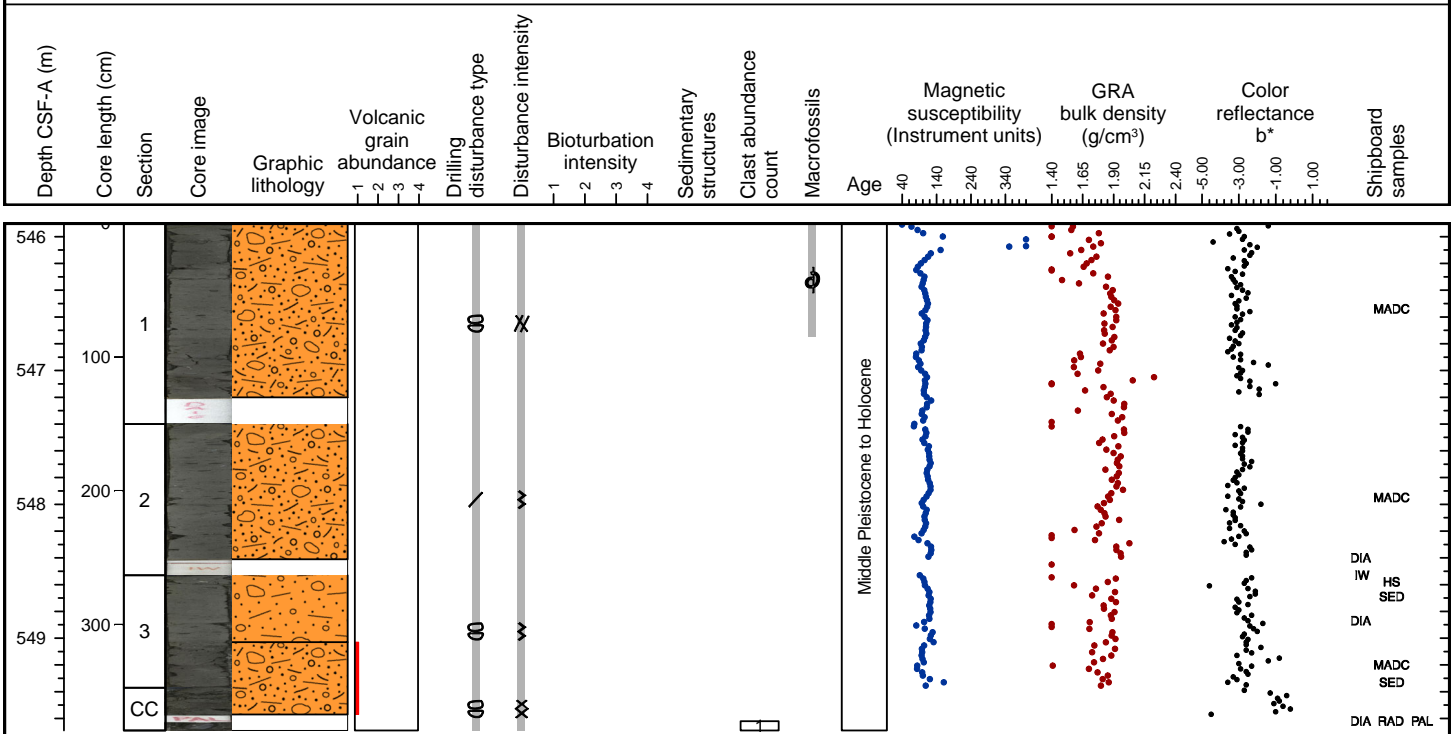
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include metasandstone, siltstone, metasiltstone, and greenstone.



Hole 341-U1420A Core 58R, Interval 545.5-549.29 m (CSF-A)

CLAST-RICH DIAMICT, CLAST-POOR DIAMICT

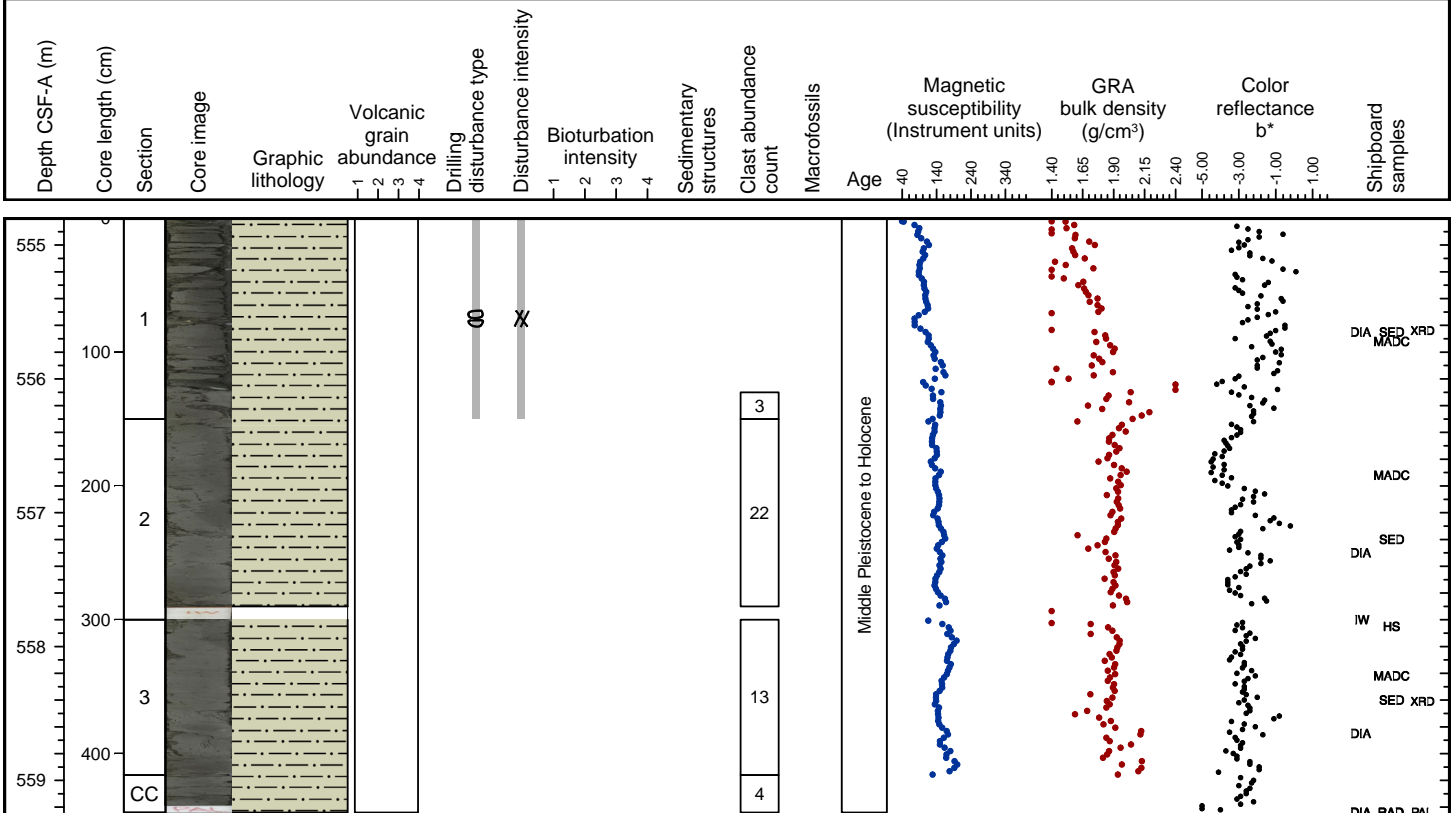
Dark gray (N 4) to very dark gray (N 3) often sandy clast-rich diamict is the major lithology. Clasts include mainly granules and pebbles (up to 3 cm) of granitoids, siltstone, sandstone, and greenstone. Dark gray (N 4) clayey clast-poor diamict is the minor lithology. Shell fragments are observed in Sections 1 and 2.



Hole 341-U1420A Core 59R, Interval 555.2-559.64 m (CSF-A)

MUD

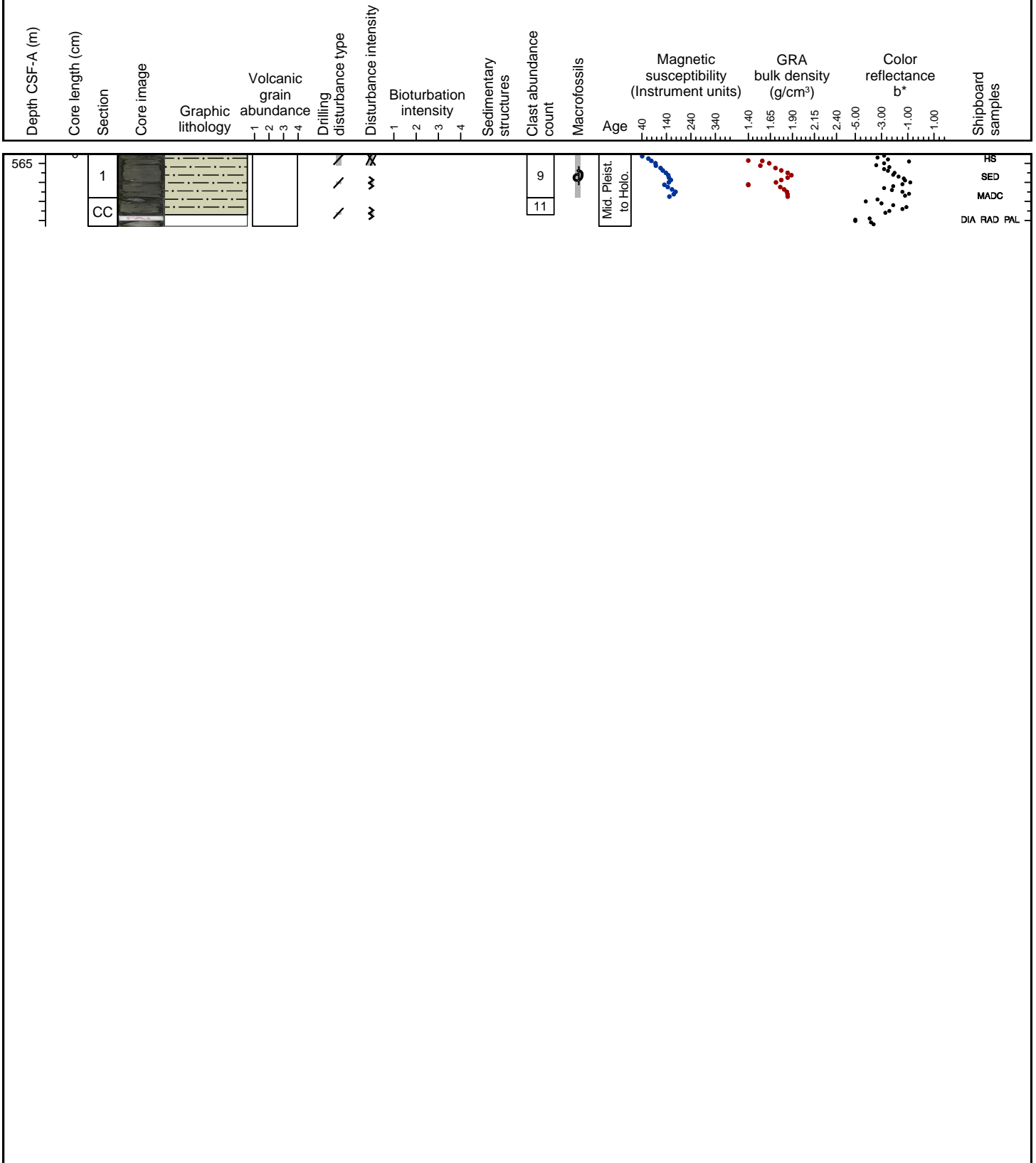
Dark greenish gray (10Y 4/1) mud with dispersed clasts is the major lithology. Dark greenish gray (10Y 4/1) mud with common clasts is the minor lithology. Clasts include siltstone, metasediment, granitoids, dioritic components, greenstone and quartz. Few shell fragments, diatoms, sponge spicules, sand pods and volcanic ash occur very rarely.



Hole 341-U1420A Core 60R, Interval 564.9-565.66 m (CSF-A)

MUD, MINOR LITHOLOGY NOT RECOVERED

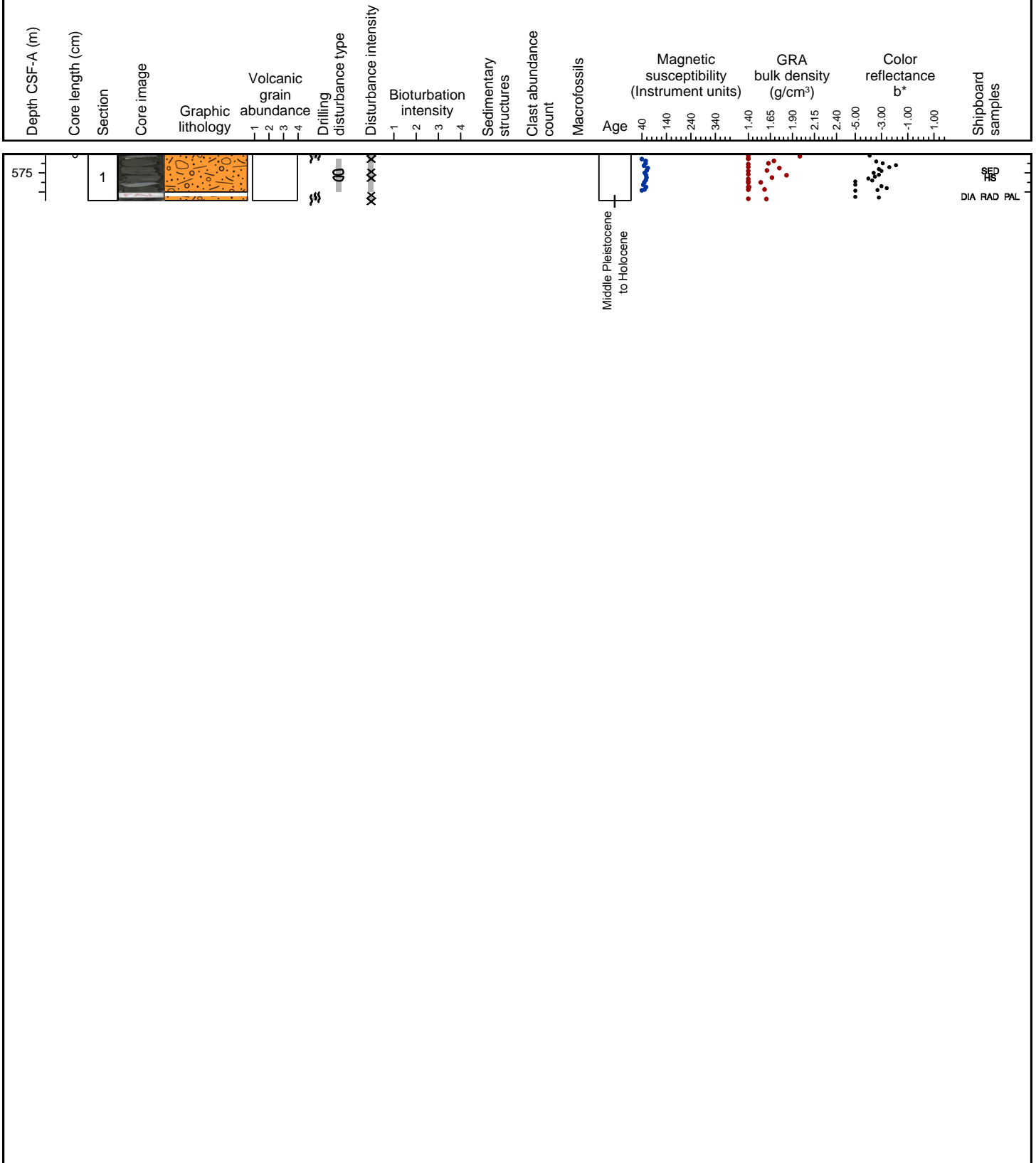
Dark gray (N 4) silty mud with dispersed clasts is the major lithology. Clasts include sandstone, siltstone, mudstone, quartz, and granitoid. A shell fragment is present in Section 1. Primary lithology was not recovered below the PAL sample in CC.



Hole 341-U1420A Core 61R, Interval 574.6-575.09 m (CSF-A)

CLAST-RICH DIAMICT

Very dark gray (N 3) clast-rich diamict is the major lithology. Diamict matrix contains silt. Clasts include sandstone, siltstone, granite, vein quartz, rhyolite and basalt.

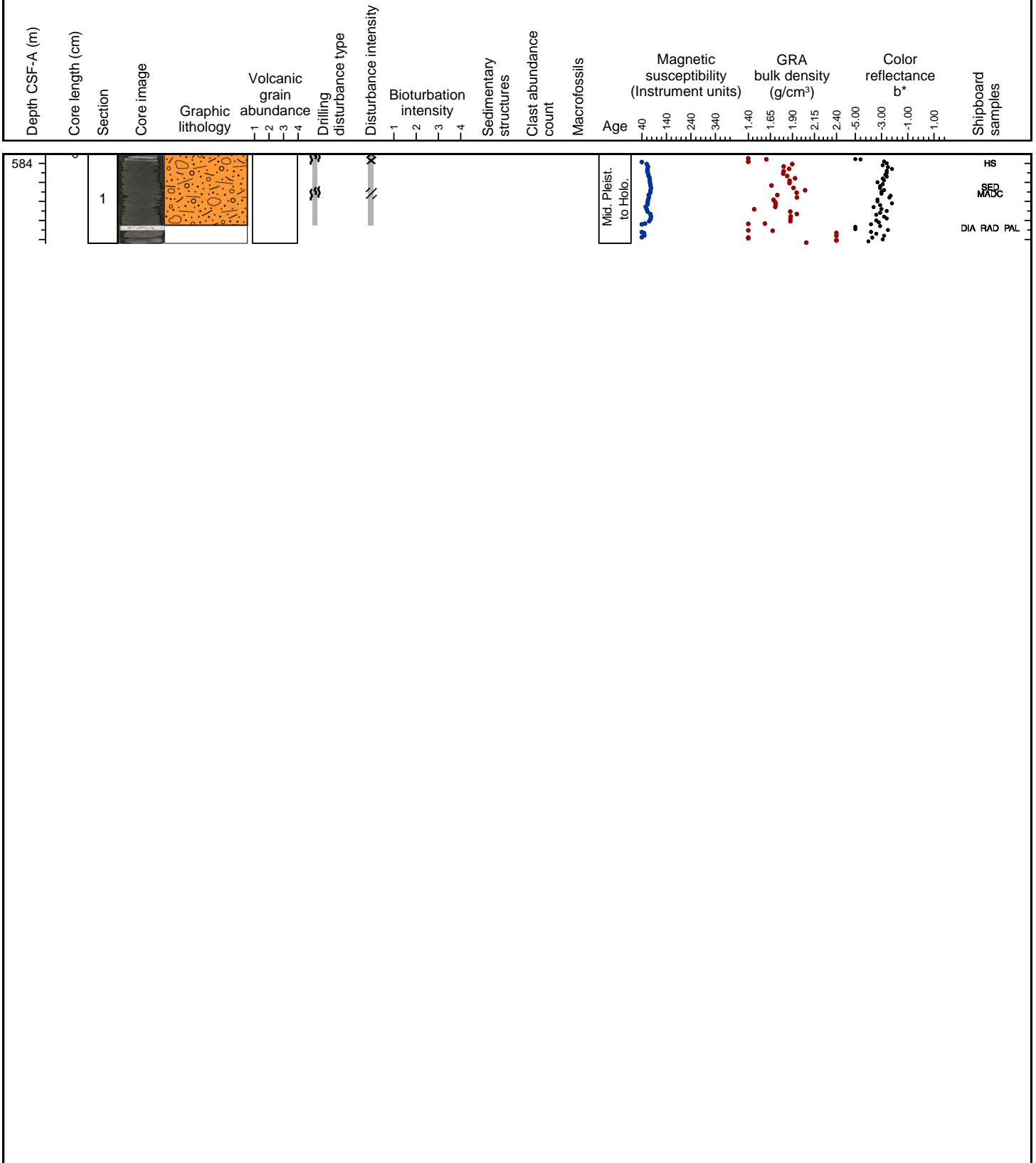




Hole 341-U1420A Core 62R, Interval 584.3-585.24 m (CSF-A)

CLAST-RICH DIAMICT

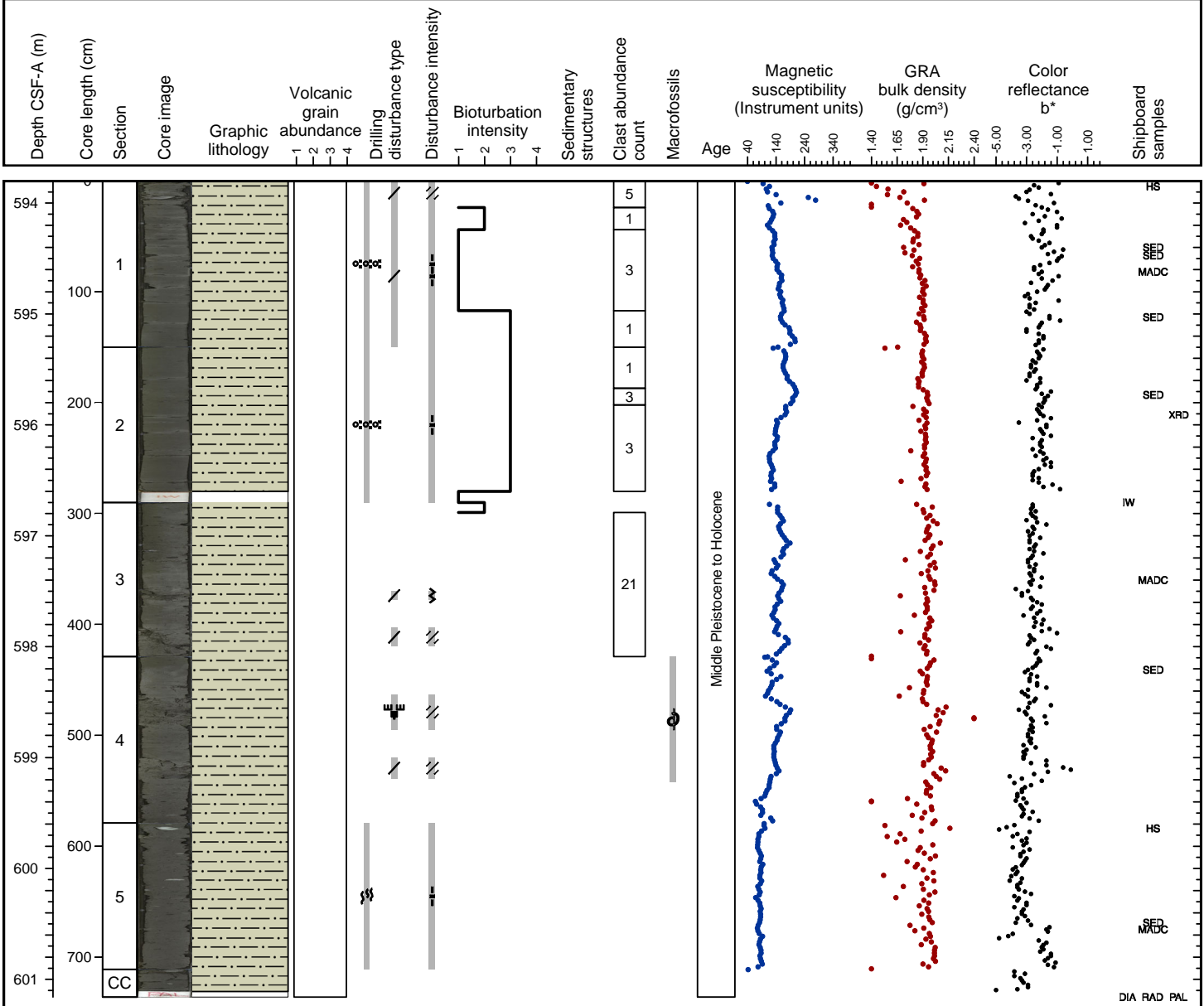
Very dark gray (N 3) clast-rich diamict is the major lithology. Diamict matrix contains sand. Clasts include sandstone, siltstone, mudstone, vein quartz and basalt. Primary lithology was not recovered below the PAL sample in Section 1.



Hole 341-U1420A Core 63R, Interval 594.0-601.36 m (CSF-A)

MUD

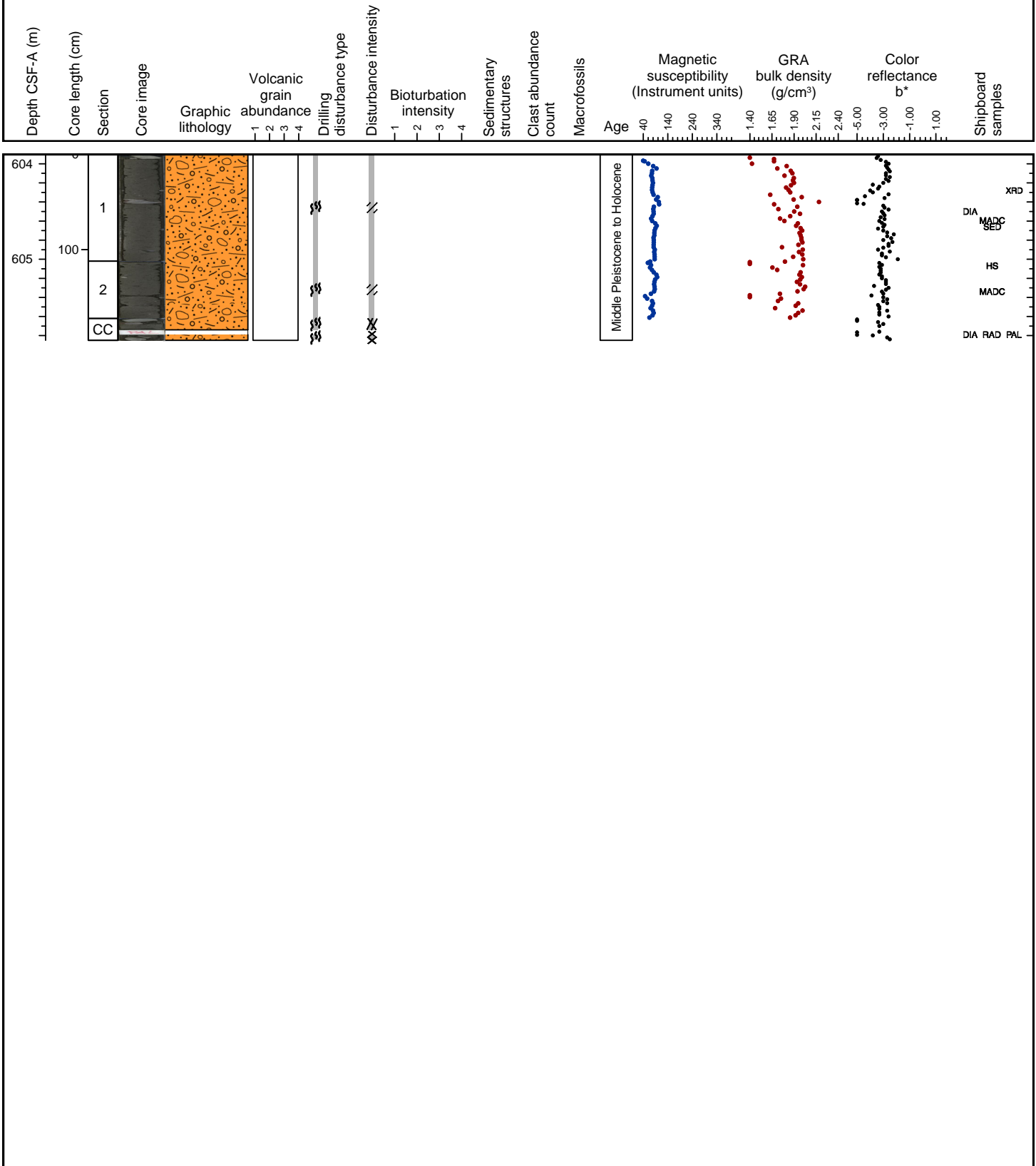
Dark greenish gray (5G 4/1, 10Y 4/1) mud is the major lithology. Dark gray (N 4) mud with silt is a minor lithology in Section 1, and very dark gray (N 3), sometimes silty, mud with common or dispersed clasts is present in Sections 4, 5, and CC. Clasts include siltstone, sandstone, mudstone, basalt, granite, and quartzite. Foraminifers and diatoms are present in Section 2. Shell fragments are present in Section 4.



Hole 341-U1420A Core 64R, Interval 603.7-605.65 m (CSF-A)

CLAST-RICH DIAMICT

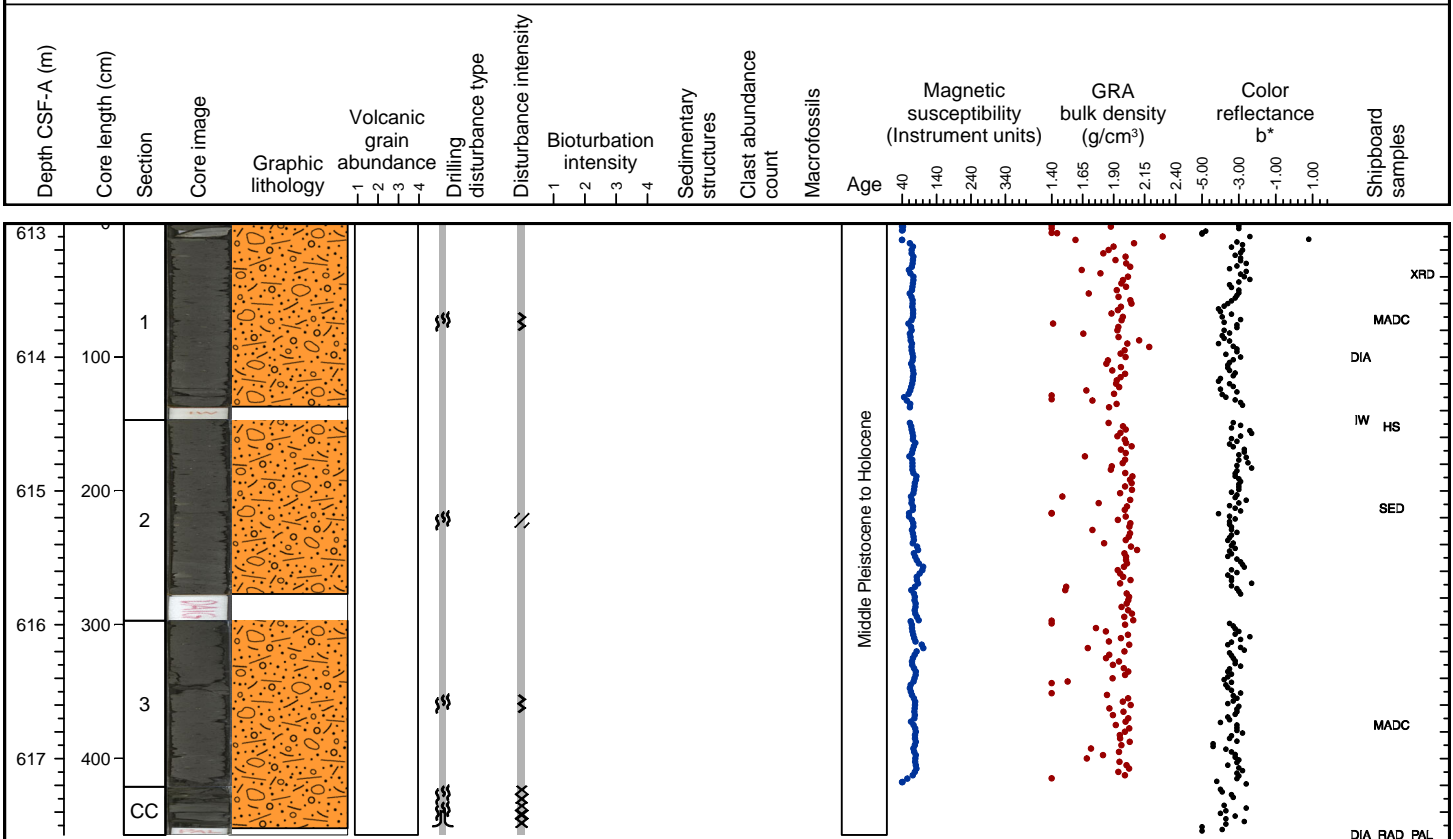
Very dark gray (N 3) clast-rich diamict is the major lithology. Diamict matrix contains silt. Clasts include sandstone, siltstone, granite, gneiss, vein quartz, rhyolite and basalt.



Hole 341-U1420A Core 65R, Interval 613.4-617.97 m (CSF-A)

CLAST-RICH DIAMICT

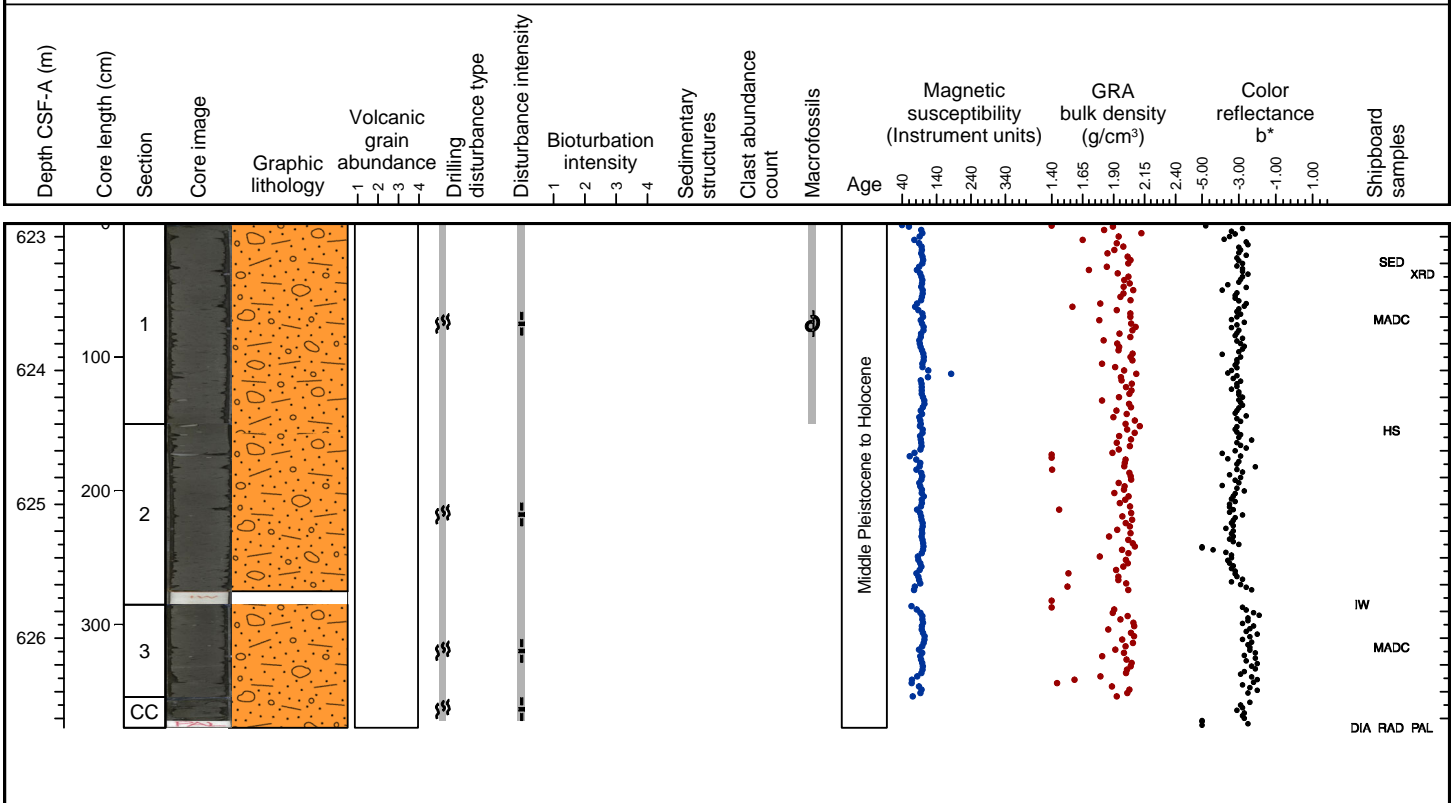
Very dark gray (N 3) clast-rich diamict is the major lithology. Diamict matrix contains silt. Clasts include sandstone, siltstone, granite, greywacke, vein quartz and basalt.



Hole 341-U1420A Core 66R, Interval 623.1-626.87 m (CSF-A)

CLAST-POOR DIAMICT

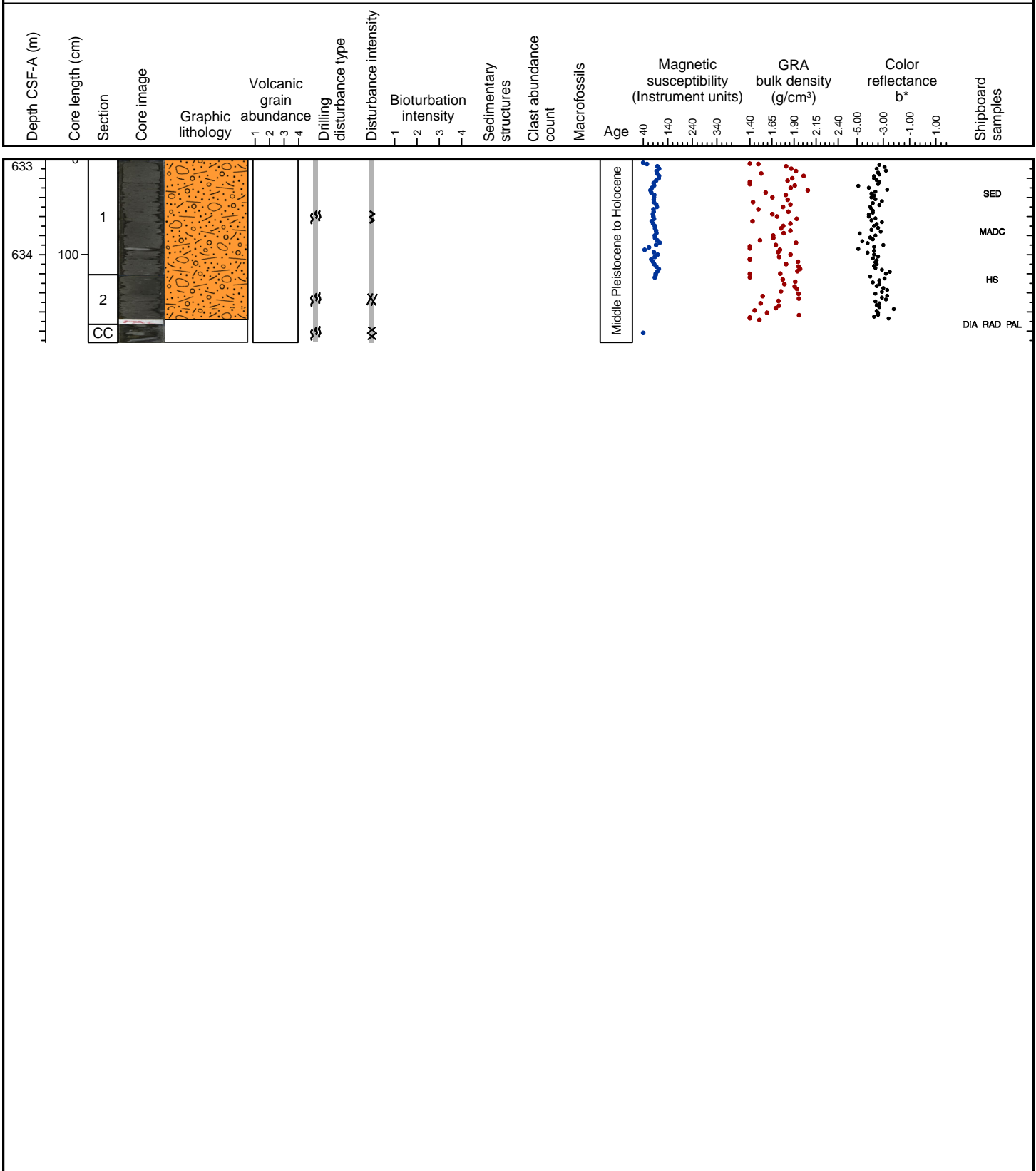
Very dark gray (N 3) silty clast-poor diamict is the major lithology. Clast lithologies include sandstone, siltstone, granitoid, quartz, and basalt. Shell fragments are present in Section 1.

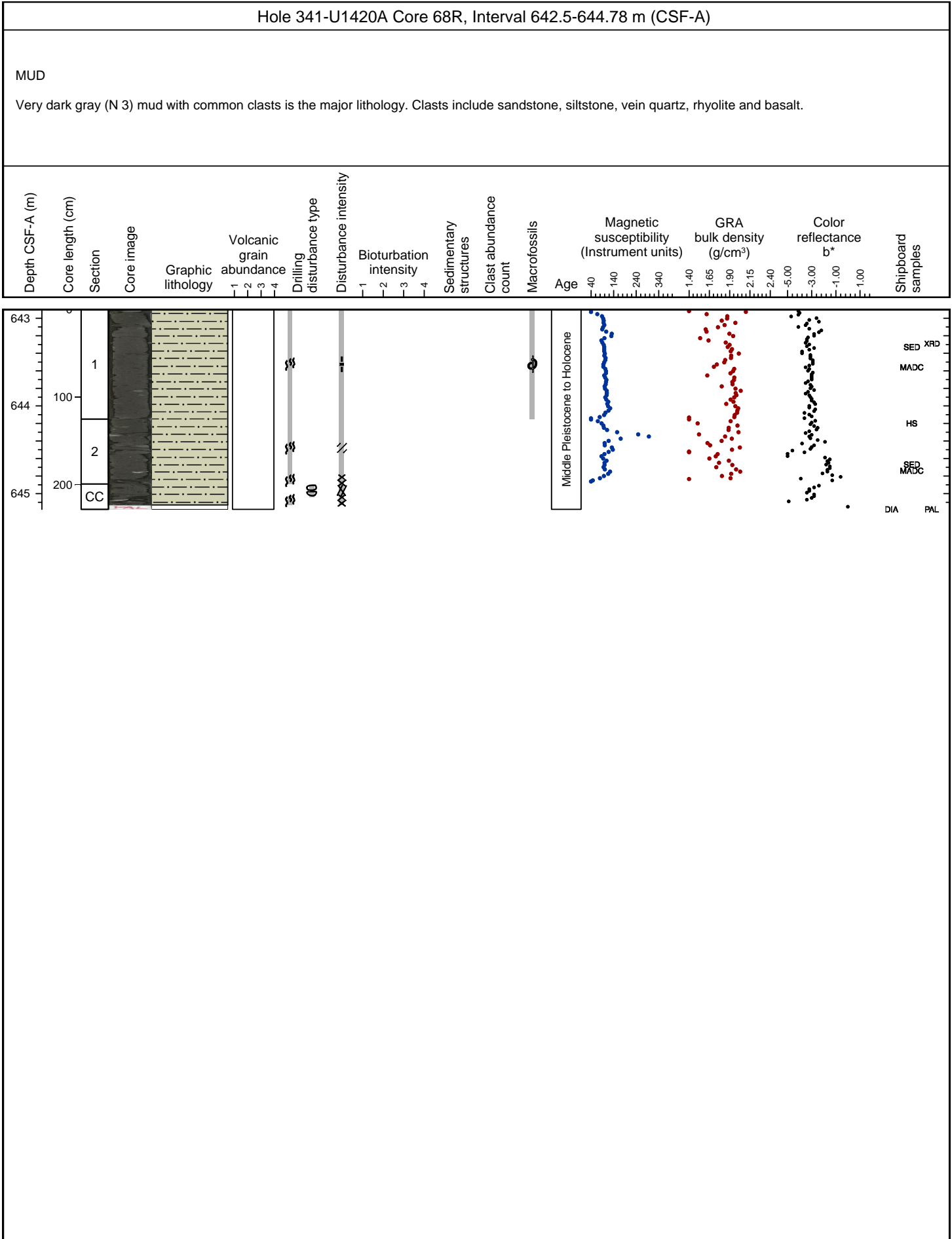


Hole 341-U1420A Core 67R, Interval 632.8-634.72 m (CSF-A)

CLAST-RICH DIAMICT, MINOR LITHOLOGY NOT RECOVERED

Very dark gray (N 3) clast-rich diamict is the major lithology. Diamict matrix contains silt. Clasts include sandstone, siltstone, granite, vein quartz, and basalt. Minor lithology was not recovered in Section CC. Magnetic susceptibility data not collected for Section 2.

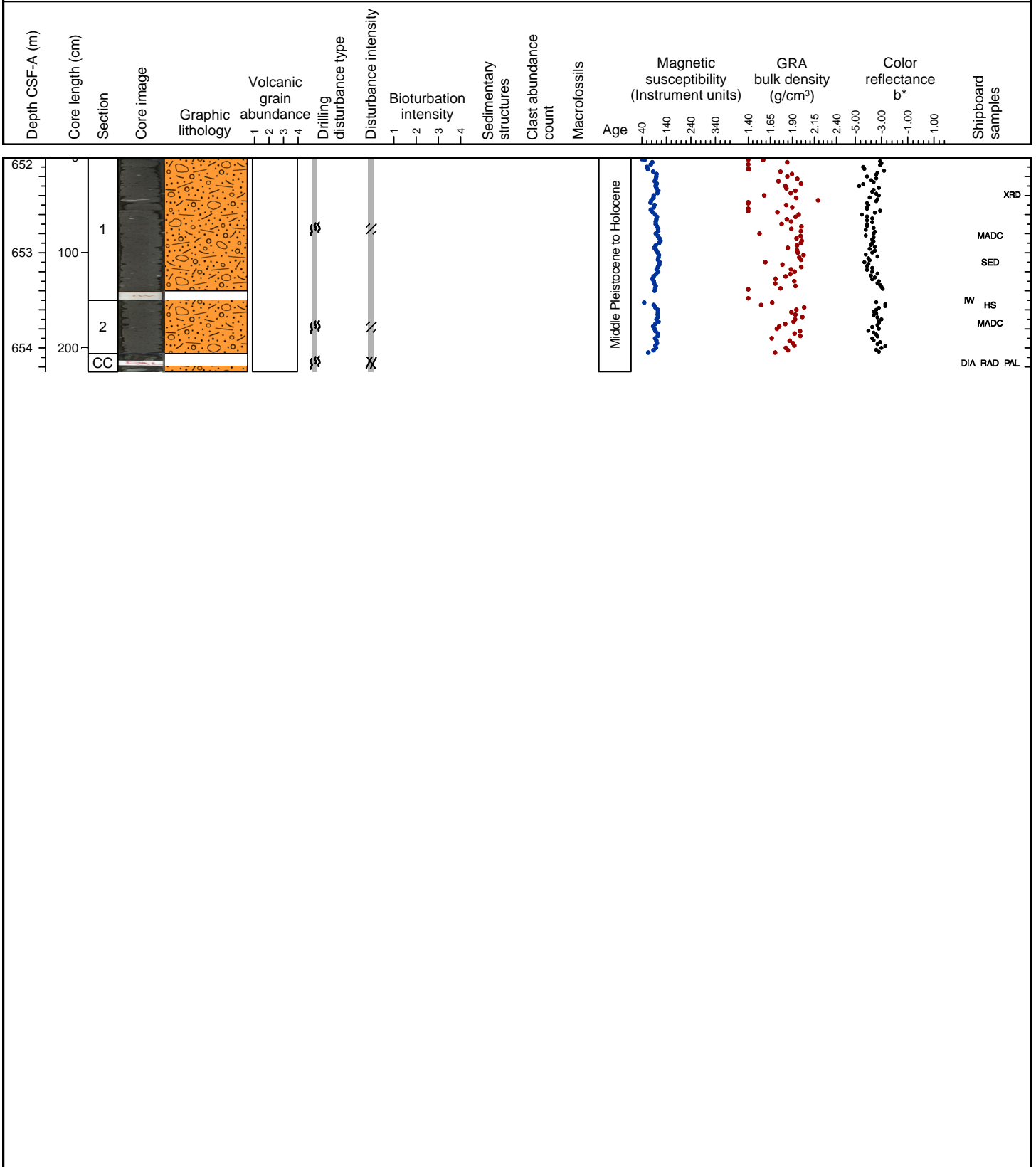




Hole 341-U1420A Core 69R, Interval 652.2-654.45 m (CSF-A)

CLAST-RICH DIAMICT

Very dark gray (N 3) clast-rich diamict is the major lithology. The matrix is composed of sandy mud. Clasts of granule and pebble size include greenstone, sandstone, granitoids, vein quartz, basalt(?), siltstone, rhyolite and gneiss. Shell fragments are present in Section 1.

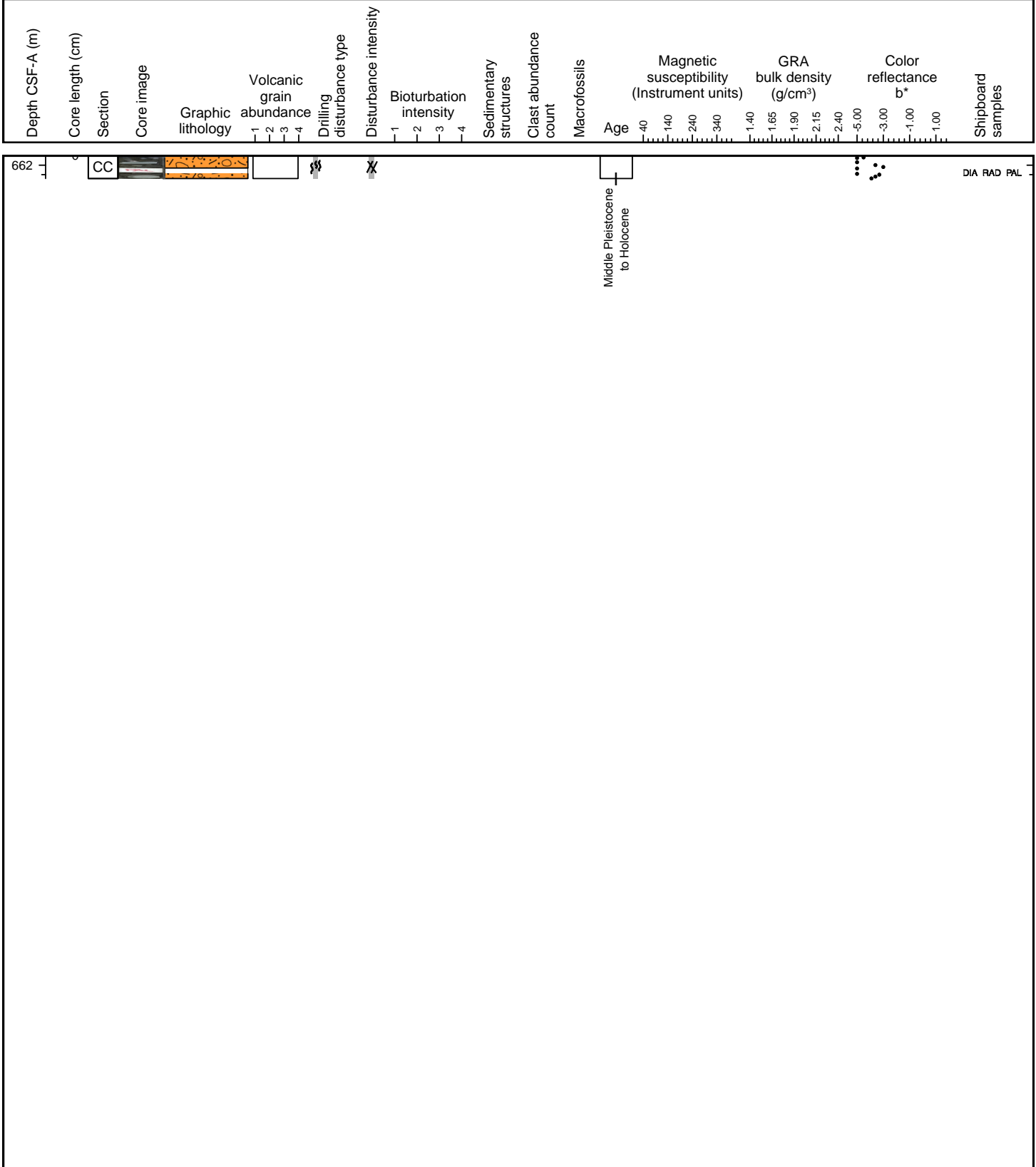




Hole 341-U1420A Core 70R, Interval 661.9-662.14 m (CSF-A)

CLAST-RICH DIAMICT

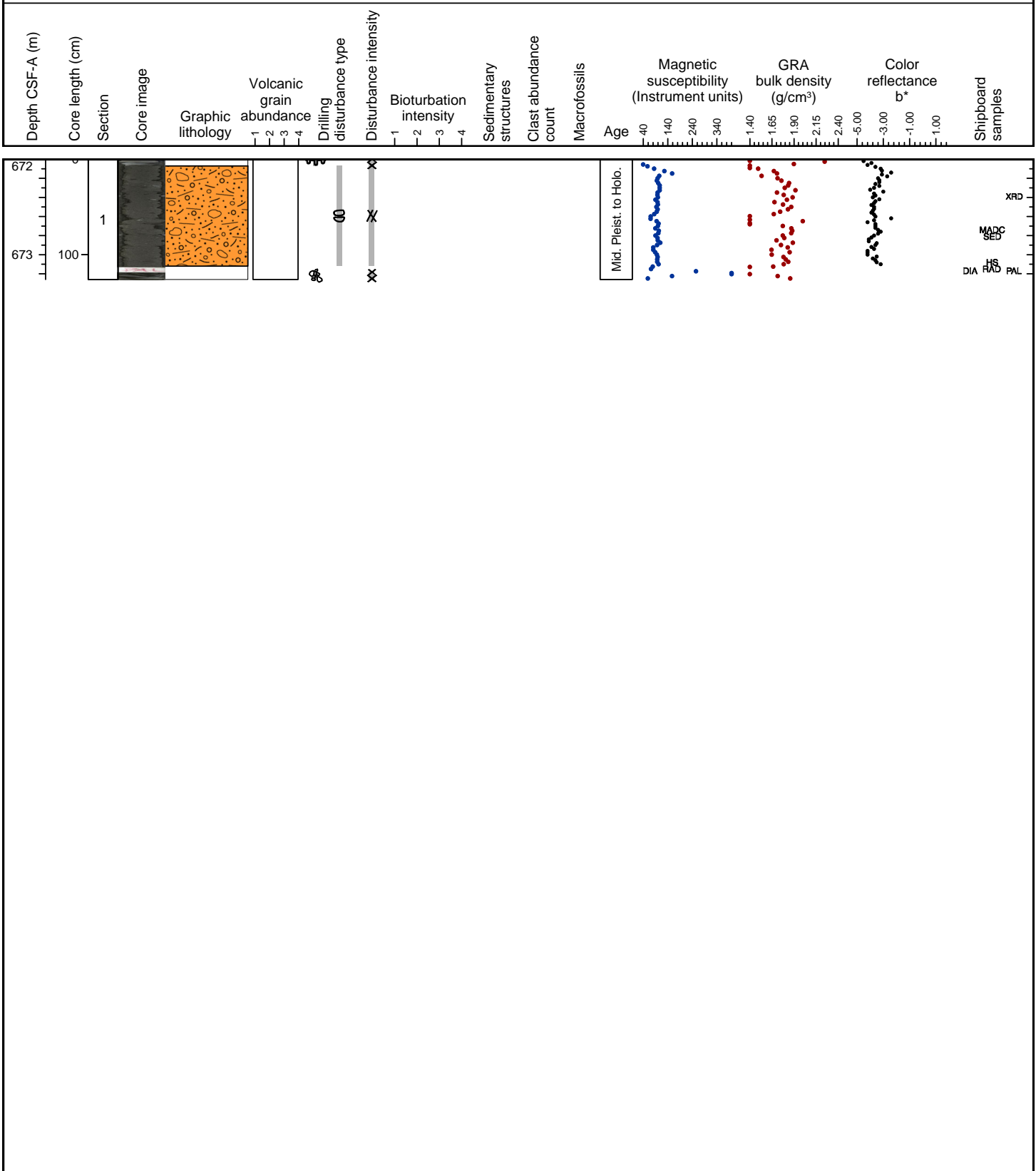
Very dark gray (N 3) sandy clast-rich diamict is the major lithology. Lithologies of granules and pebbles (up to 2 cm) include siltstone, sandstone, metasilstone. Part of the matrix has been washed away while drilling.



Hole 341-U1420A Core 71R, Interval 671.6-672.86 m (CSF-A)

CLAST-RICH DIAMICT

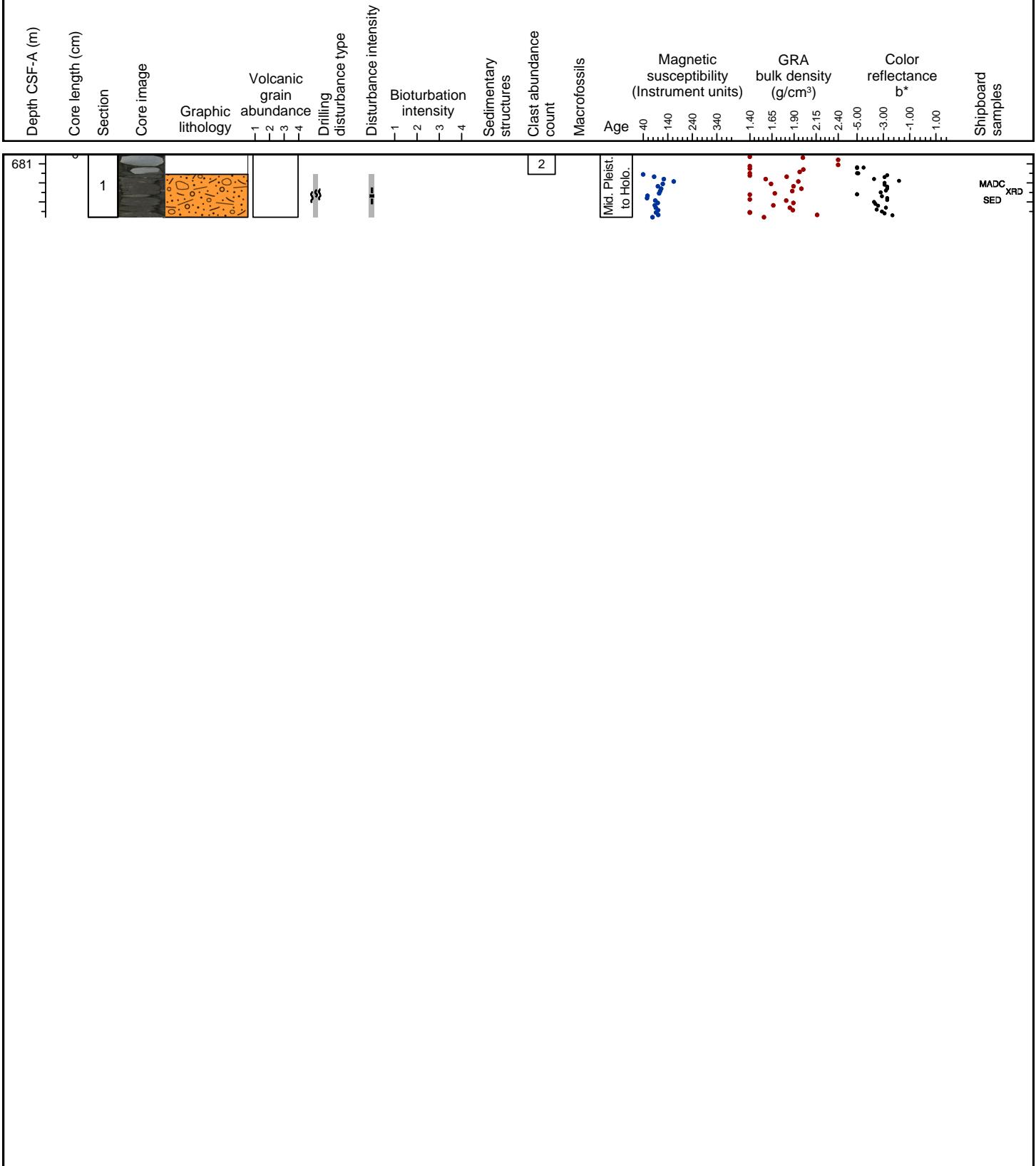
Very dark gray (N 3) sandy clast-rich diamict is the major lithology. Clast lithologies include siltstone, sandstone, greenstone, granitoids, metasiltstone. Part of the matrix has been washed away while drilling.



Hole 341-U1420A Core 72R, Interval 681.3-681.96 m (CSF-A)

CLAST-RICH DIAMICT, MINOR LITHOLOGY NOT RECOVERED

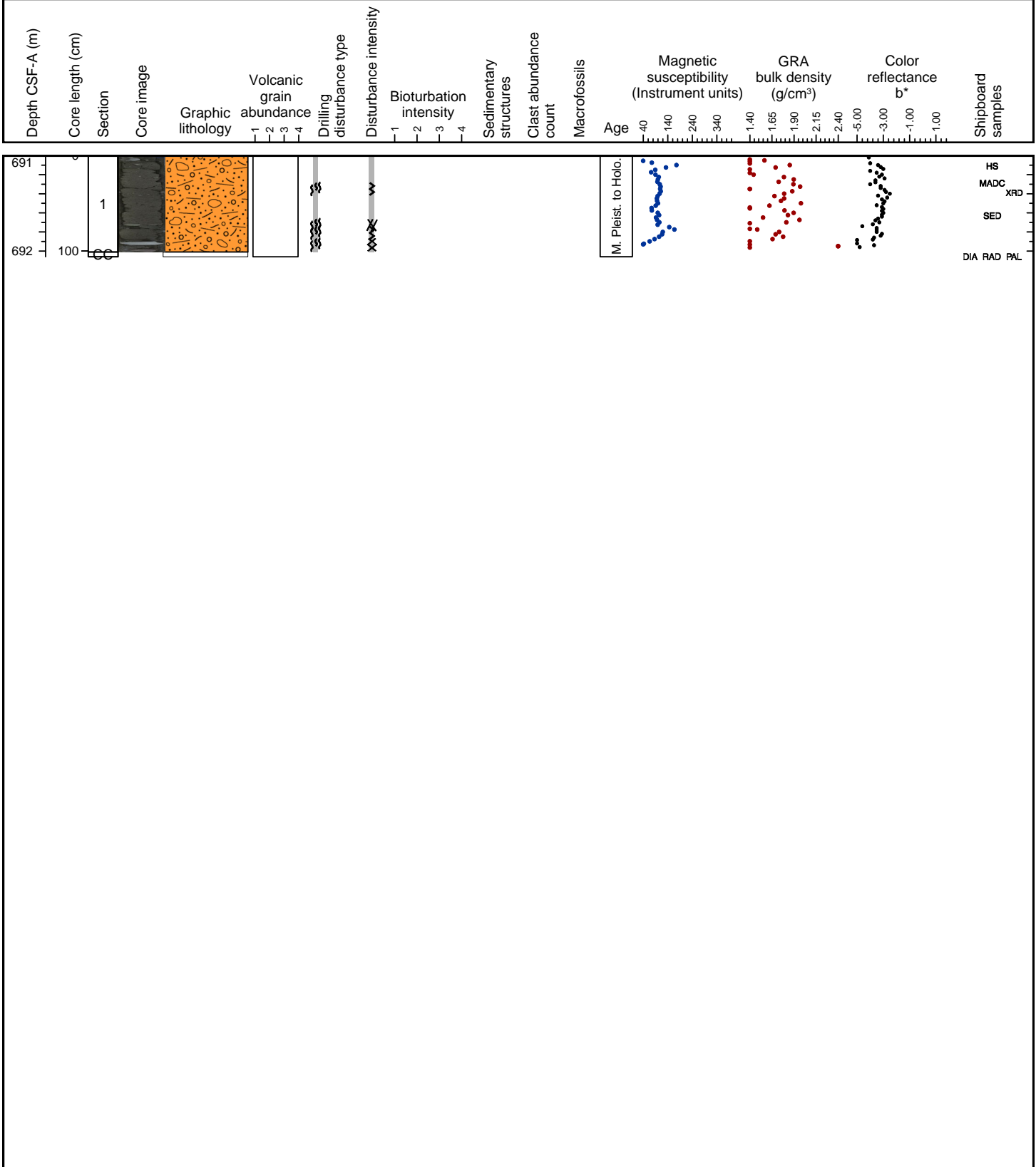
Very dark gray (N 3) silty clast-rich diamict is the major lithology. Clasts lithologies include volcanics (vesicular basalt), sandstone, siltstone, granite, and quartz. The minor lithology was not recovered in the upper portion of Section 1, but two sandstone cobbles were present.



Hole 341-U1420A Core 73R, Interval 691.0-692.06 m (CSF-A)

CLAST-RICH DIAMICT

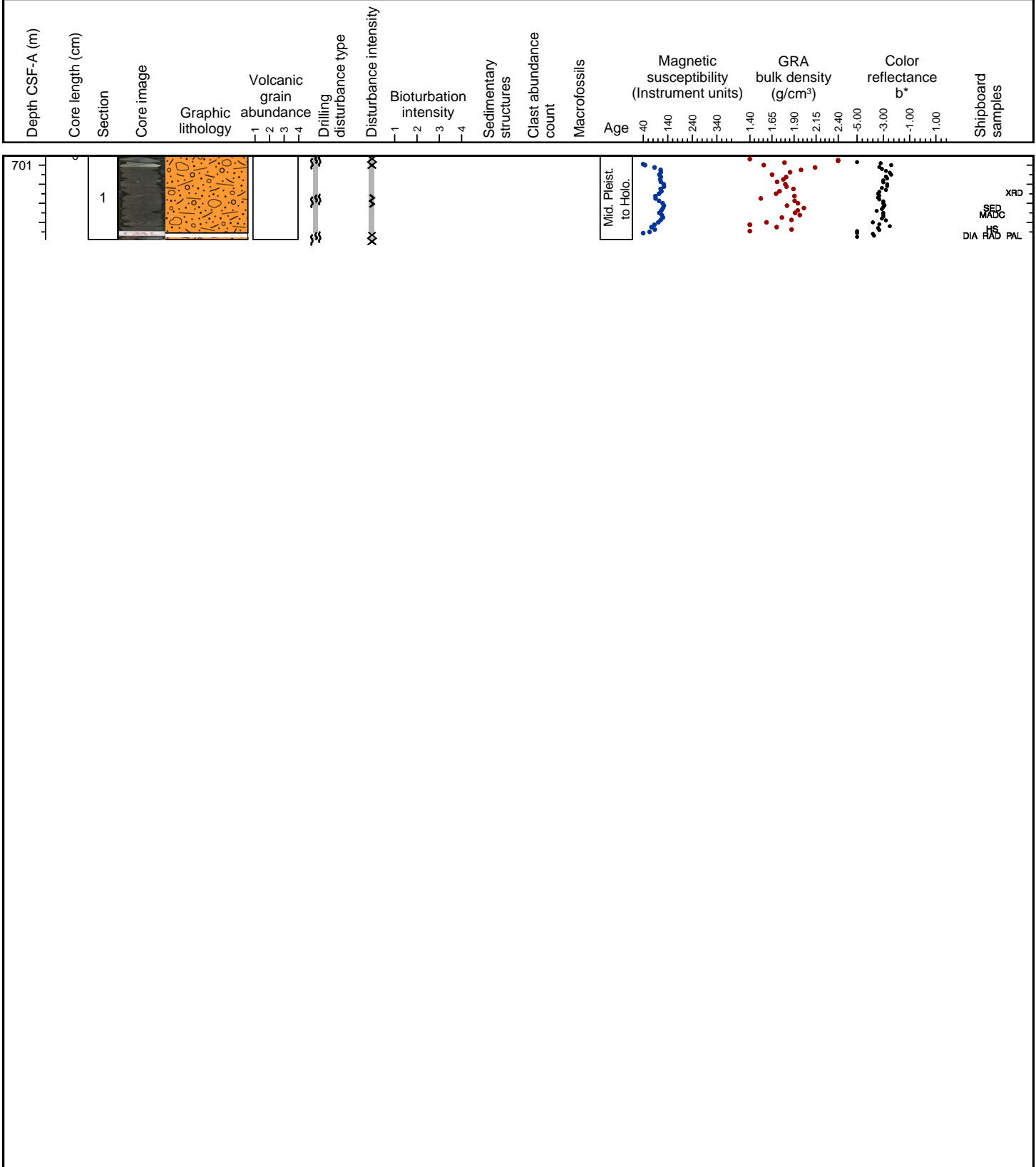
Very dark gray (N 3) clast-rich diamict is the major lithology. The matrix is composed of sandy mud. Clasts of granule and pebble size include basalt, sandstone, argillite, vein quartz, basalt, siltstone and rhyolite.



Hole 341-U1420A Core 74R, Interval 700.7-701.58 m (CSF-A)

CLAST-RICH DIAMICT

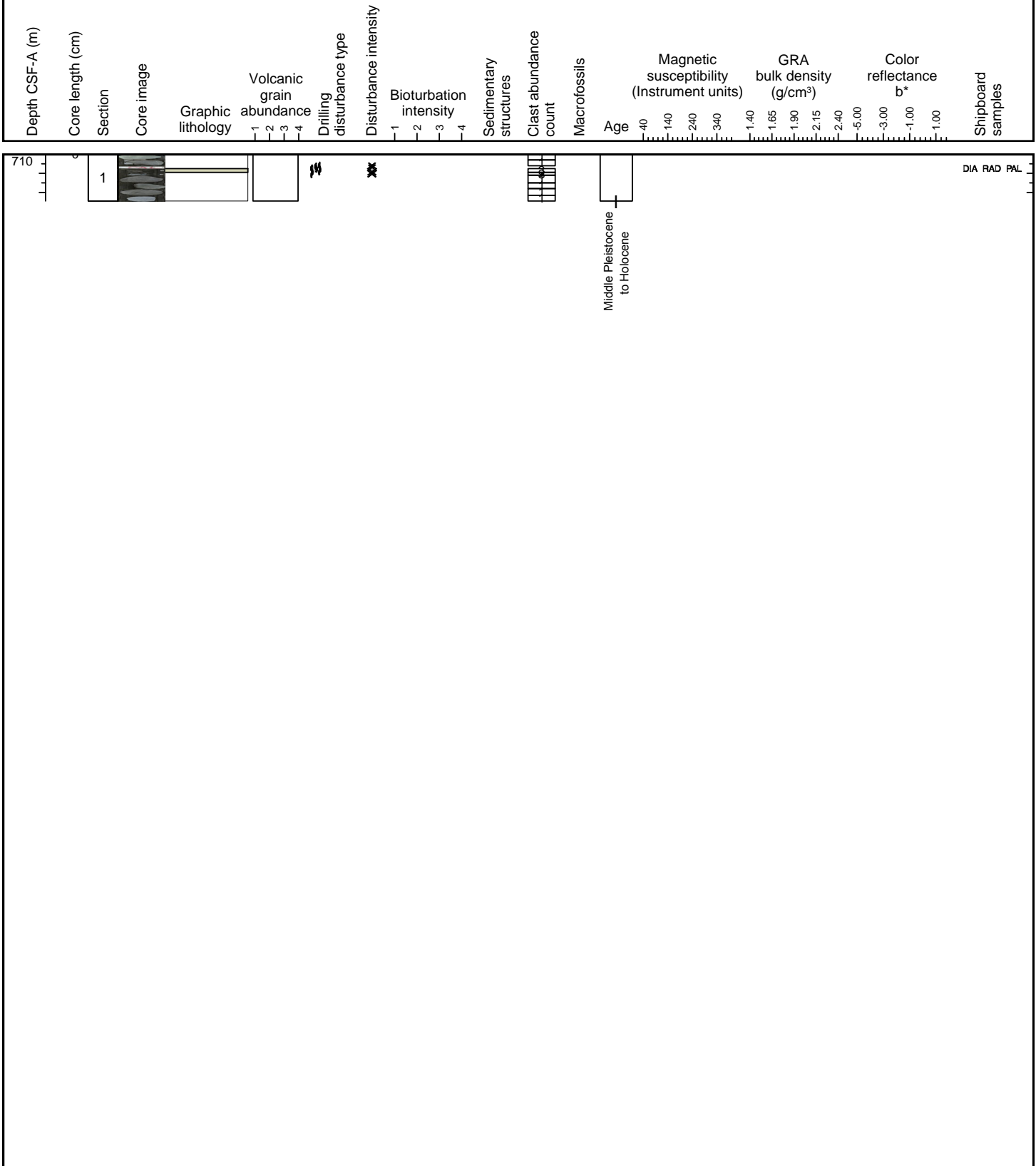
Very dark gray (N 3) clast-rich diamict is the major lithology. The matrix is composed of sandy mud. Clasts of granule and pebble size include basalt, sandstone, vein quartz, basalt, siltstone, granite and rhyolite.



Hole 341-U1420A Core 75R, Interval 710.4-710.89 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED, MUD

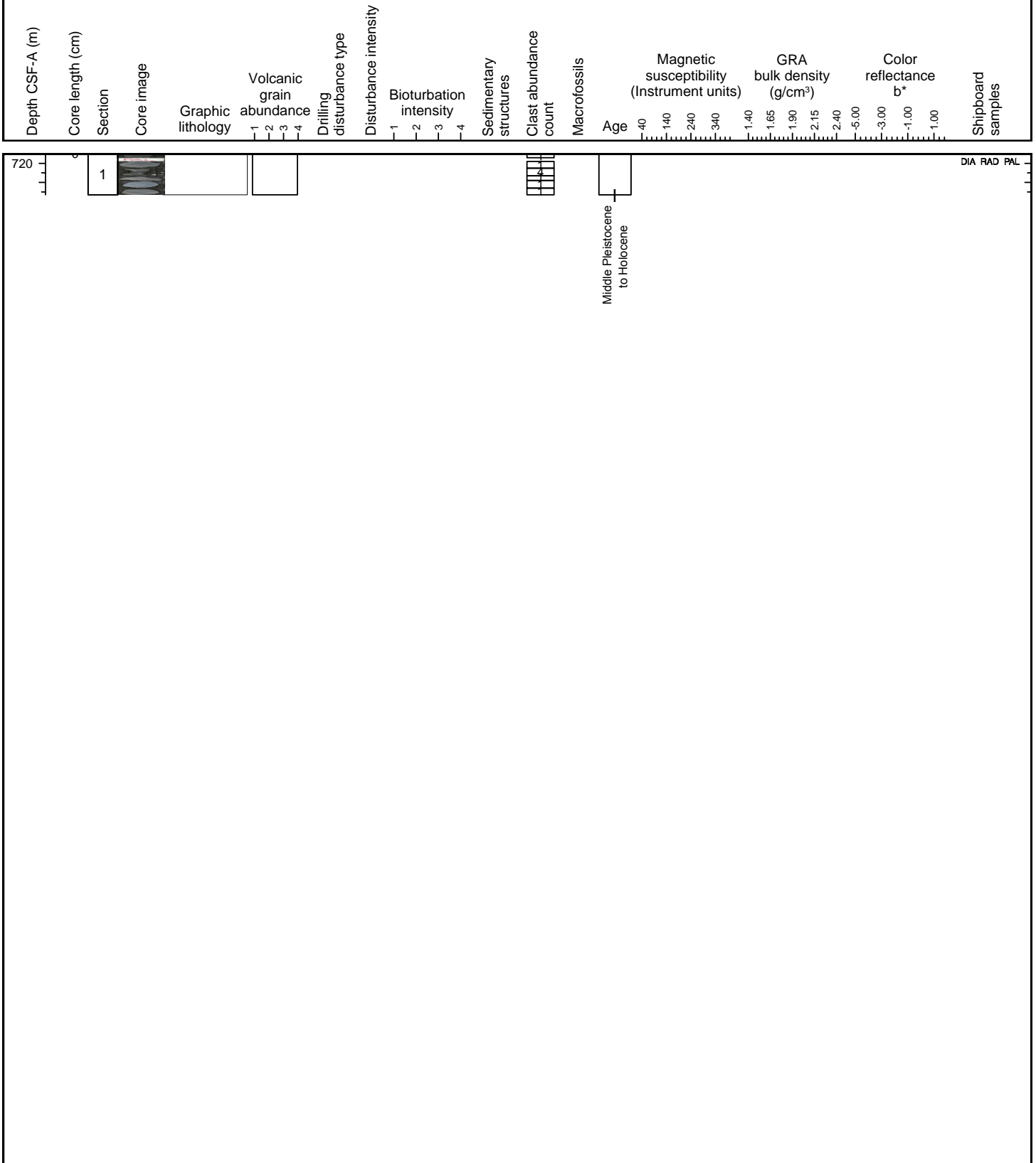
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include basalt, greywacke, siltstone, and granite. Very dark gray (N 3) mud is a minor lithology, but is heavily washed by drilling disturbance.



Hole 341-U1420A Core 76R, Interval 720.1-720.53 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

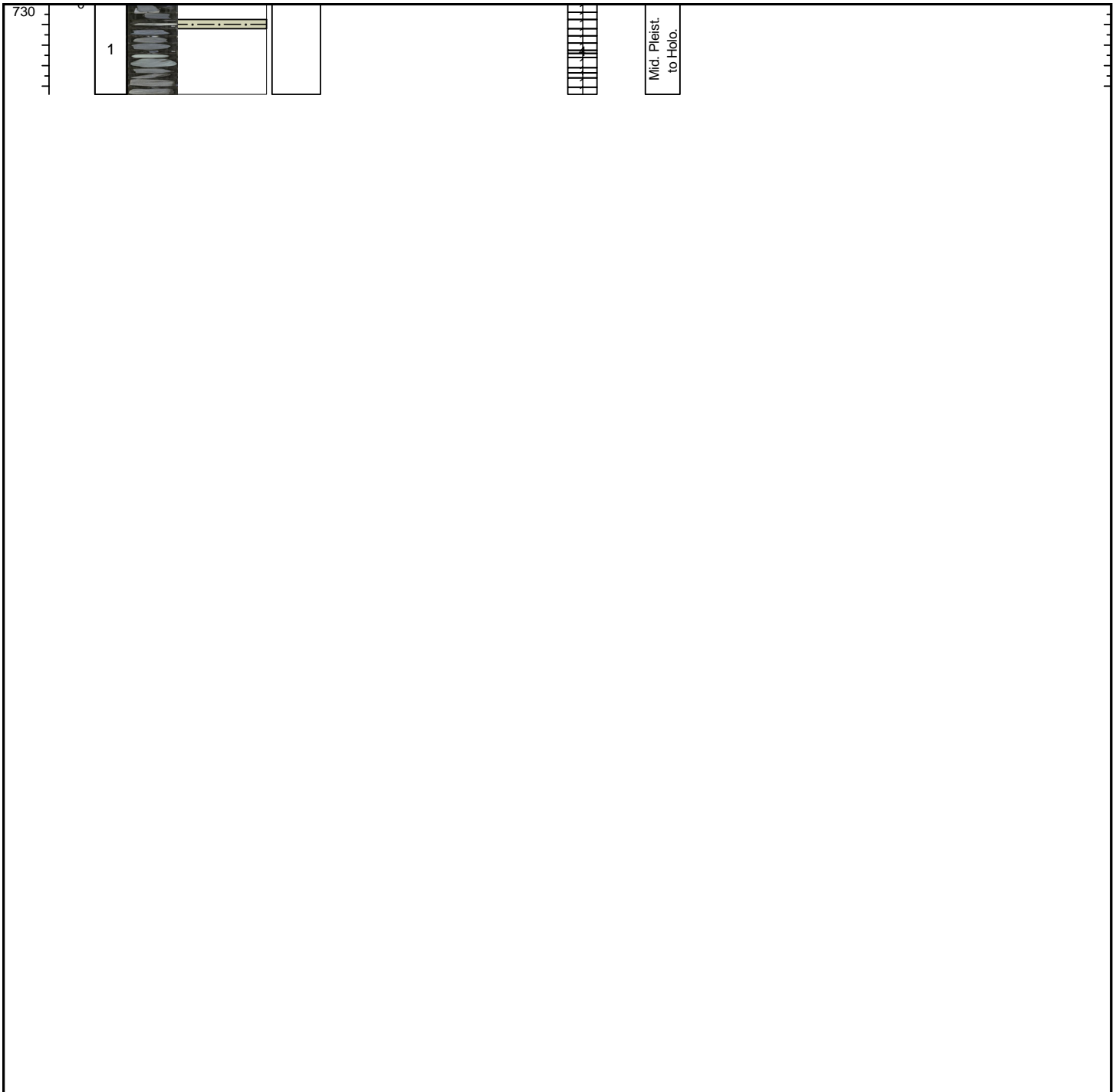
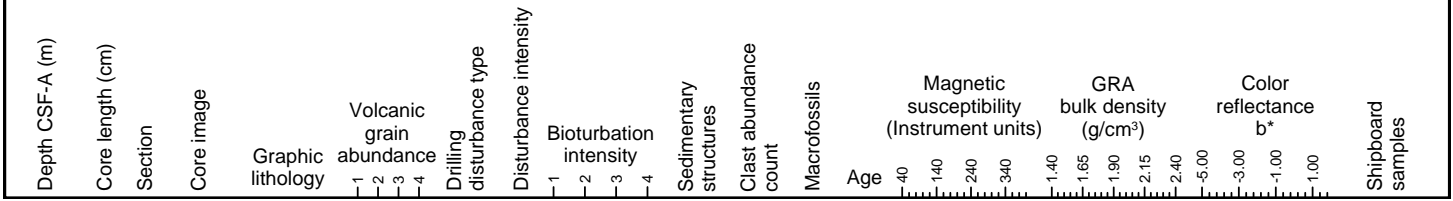
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include siltstone, greywacke, sandstone, basalt, and metasiltstone.



Hole 341-U1420A Core 77R, Interval 729.8-730.68 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED, MUD

No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include basalt, granite, metasandstone, and siltstone. Mud with a lonestone is a minor lithology in bin 3.

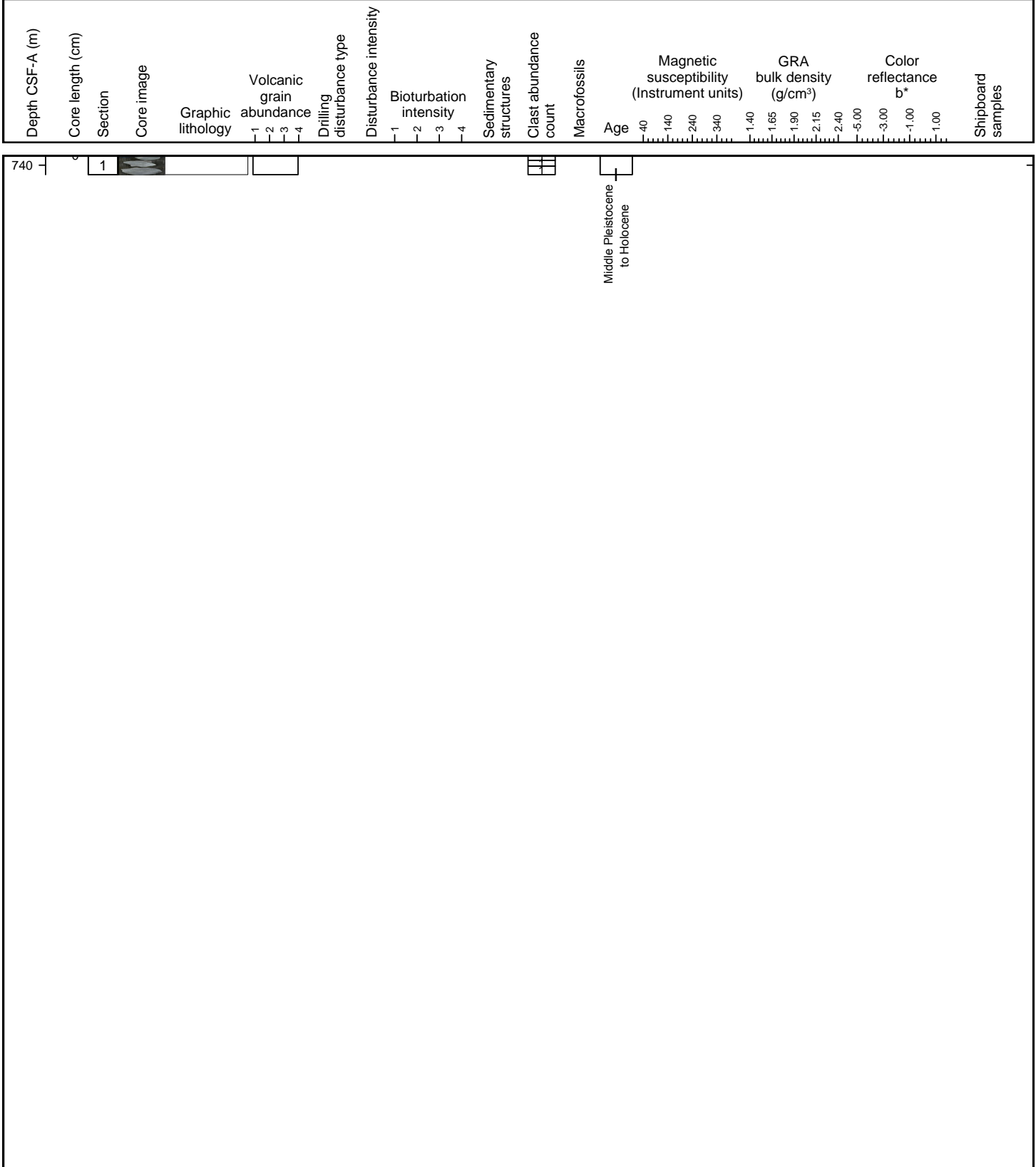




Hole 341-U1420A Core 78R, Interval 739.5-739.7 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

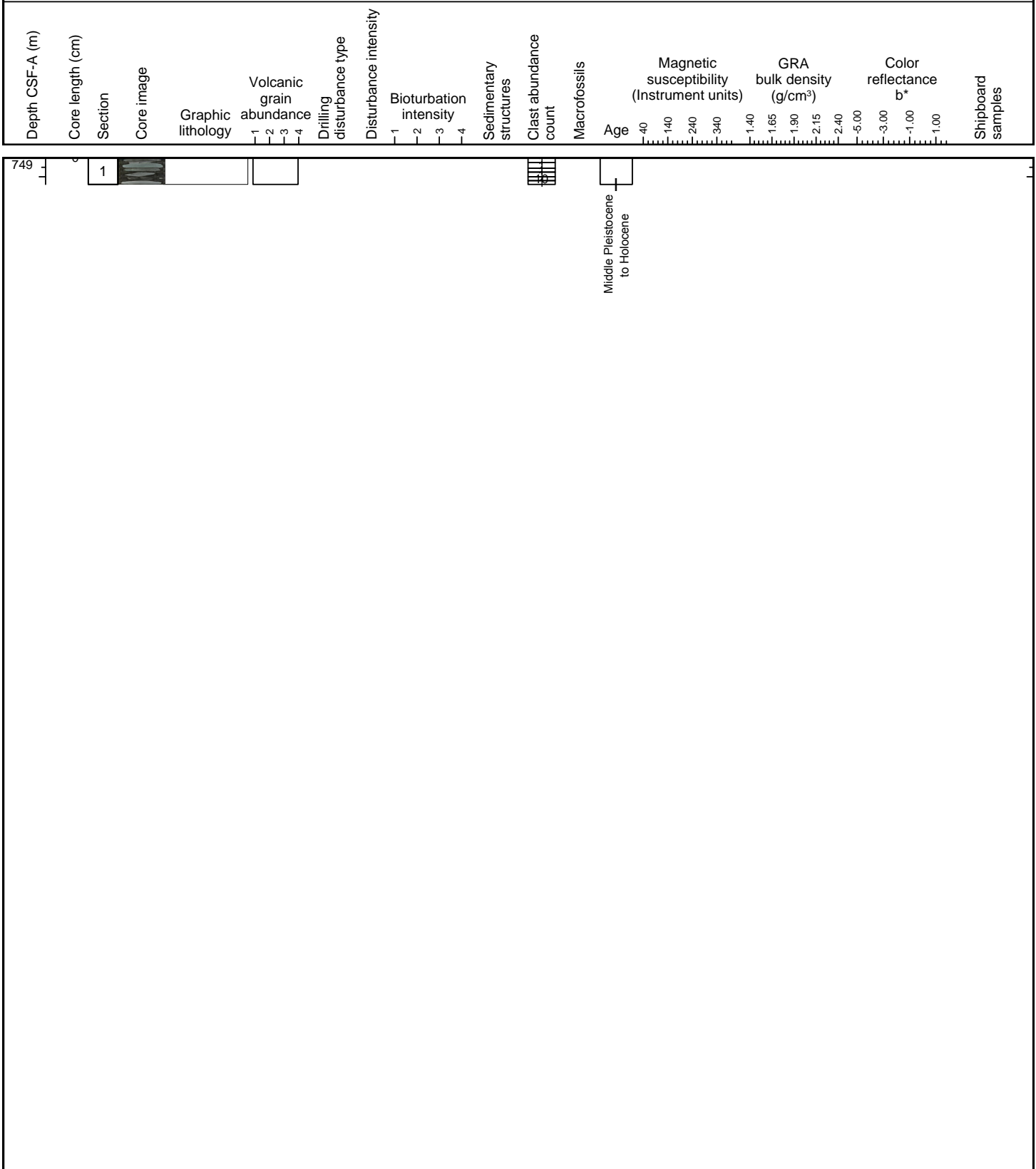
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include sandstone, granite and siltstone.



Hole 341-U1420A Core 79R, Interval 749.2-749.48 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

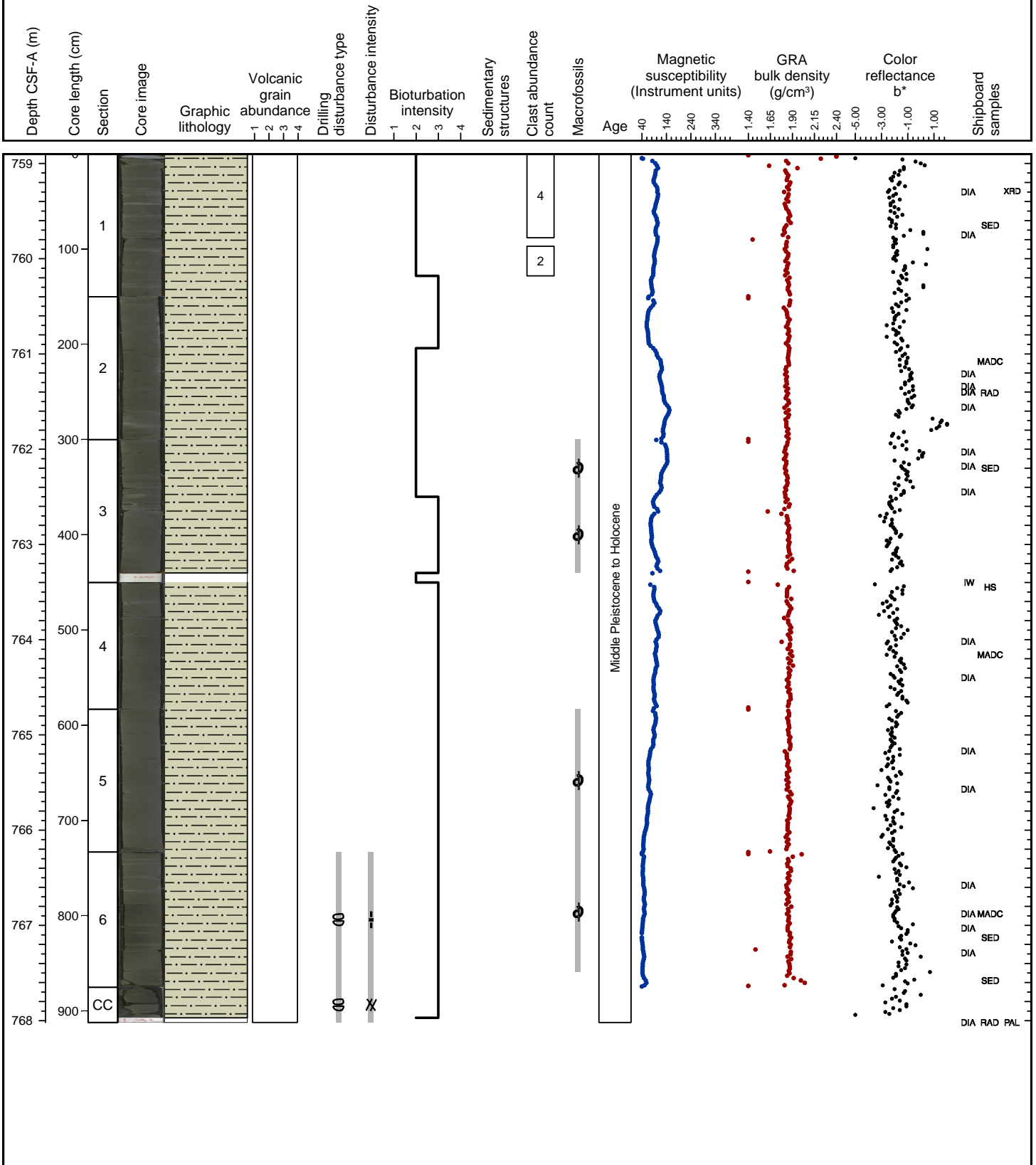
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include basalt, diorite, sandstone and siltstone.



Hole 341-U1420A Core 80R, Interval 758.9-768.02 m (CSF-A)

MUD

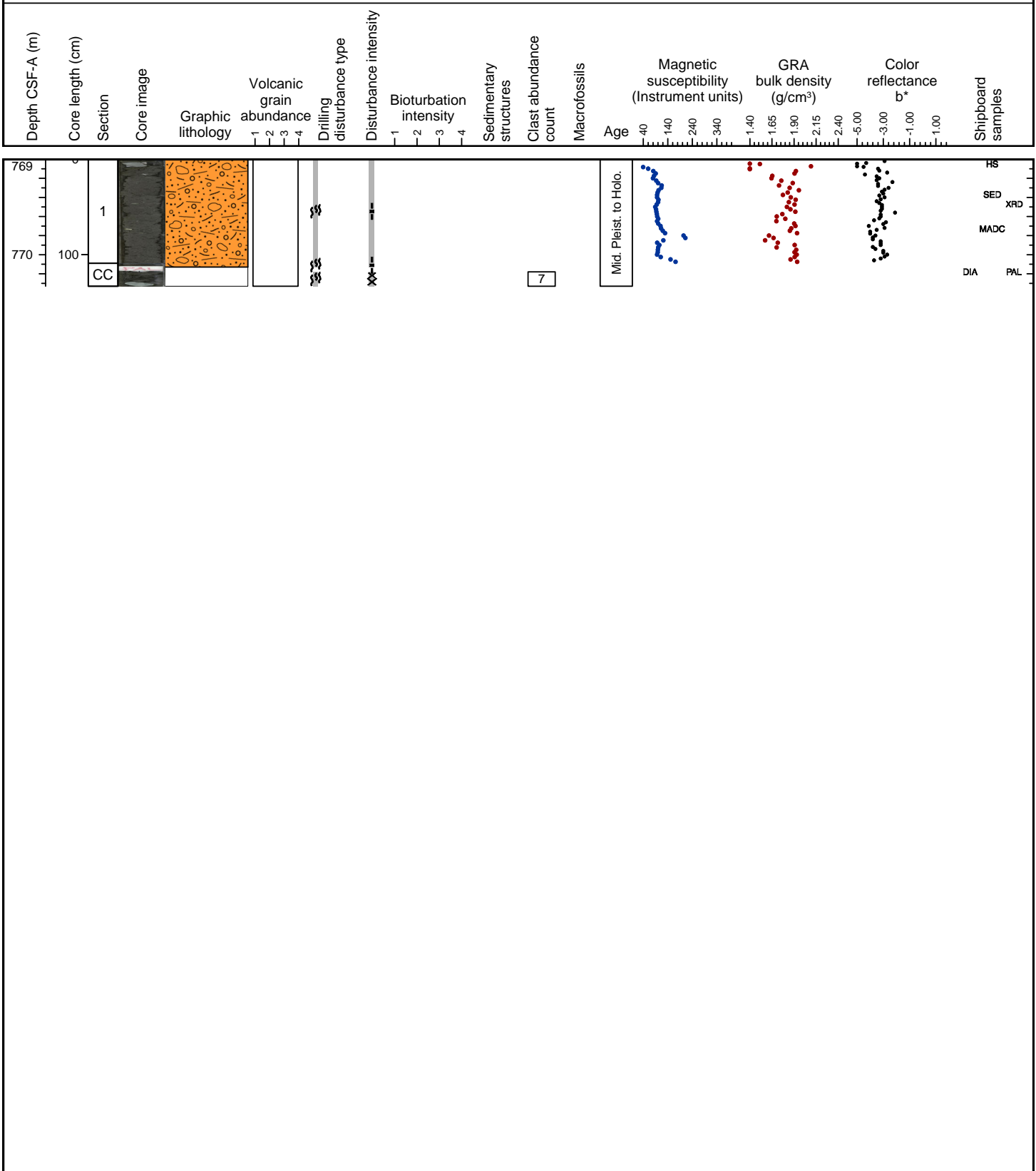
Dark greenish gray (5GY 4/1, 10Y 4/1) silty mud is the major lithology. Silty mud with dispersed clasts is present in Sections 6 and CC. Clasts are present in Sections 1, 6, and CC and include volcanic, sandstone, and siltstone. Bioturbation is moderate to heavy throughout the core. Shell fragments are present in Sections 3 and 5.



Hole 341-U1420A Core 81R, Interval 768.6-769.93 m (CSF-A)

CLAST-RICH DIAMICT, MINOR LITHOLOGY NOT RECOVERED

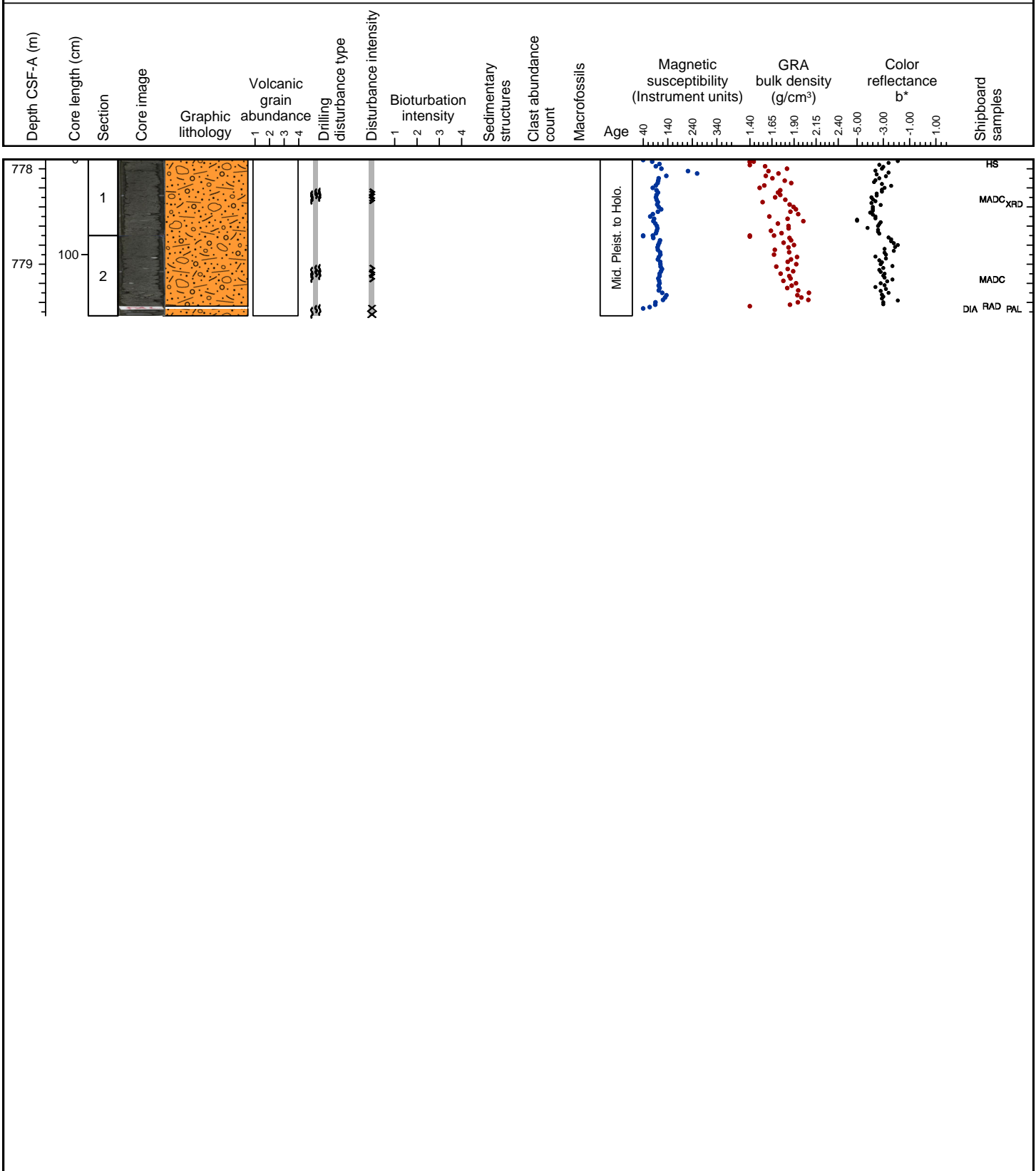
Very dark gray (N 3) silty clast-rich diamict is the major lithology. Clasts lithologies include basalt, sandstone, siltstone, argillite, granite, and quartz. Minor lithology not recovered in the lower interval of Section CC due to matrix material being washed away while drilling.



Hole 341-U1420A Core 82R, Interval 778.3-779.94 m (CSF-A)

CLAST-RICH DIAMICT, MINOR LITHOLOGY NOT RECOVERED

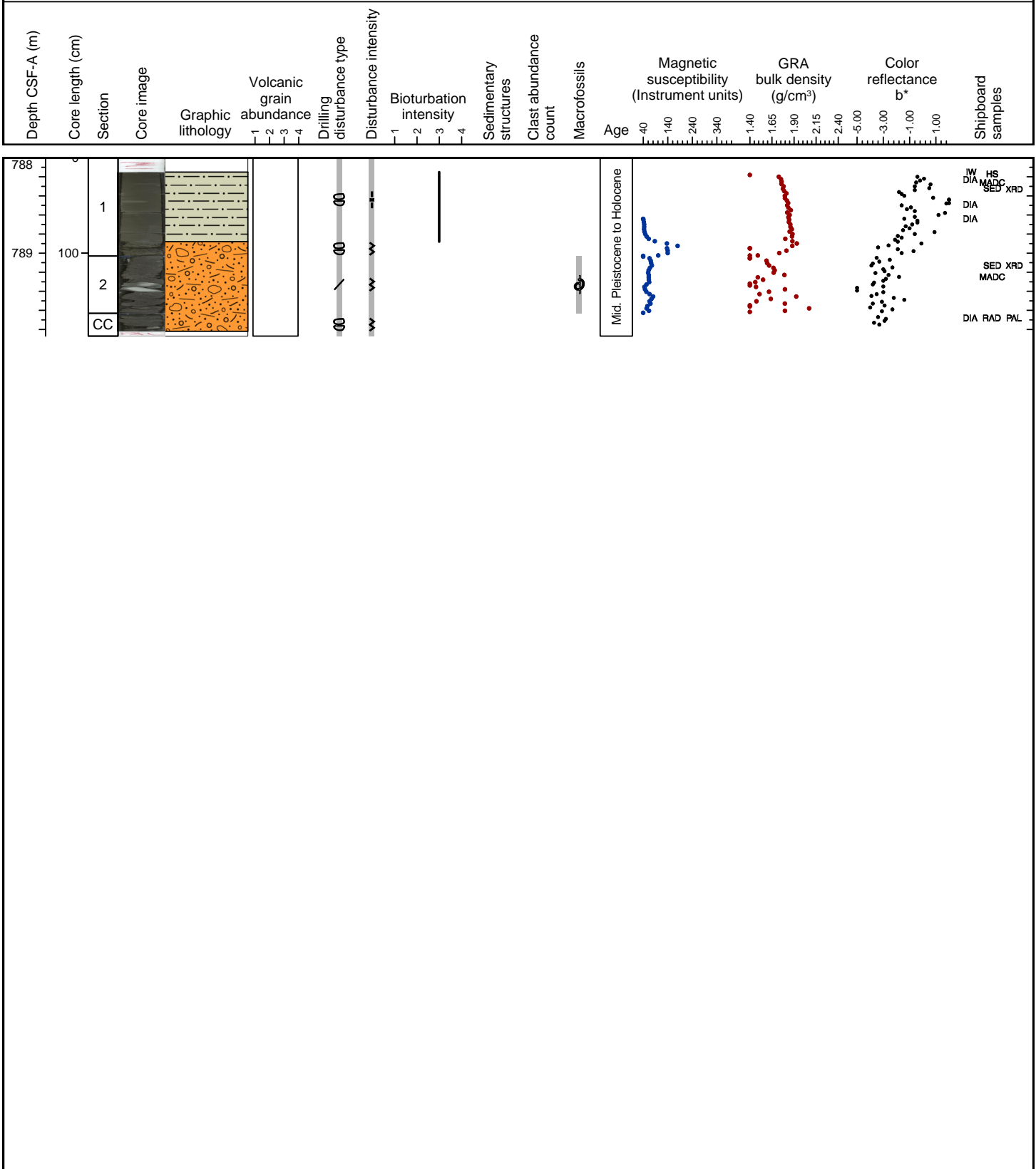
Very dark gray (N 3) muddy clast-rich diamict with sand is the major lithology. Clasts lithologies include basalt, veined quartz, sandstone, granite, siltstone, rhyolite, and argillite. Minor lithology not recovered in the lower interval of Section 1 due to matrix material being washed away while drilling.



Hole 341-U1420A Core 83R, Interval 788.0-789.87 m (CSF-A)

MUD, CLAST-RICH DIAMICT

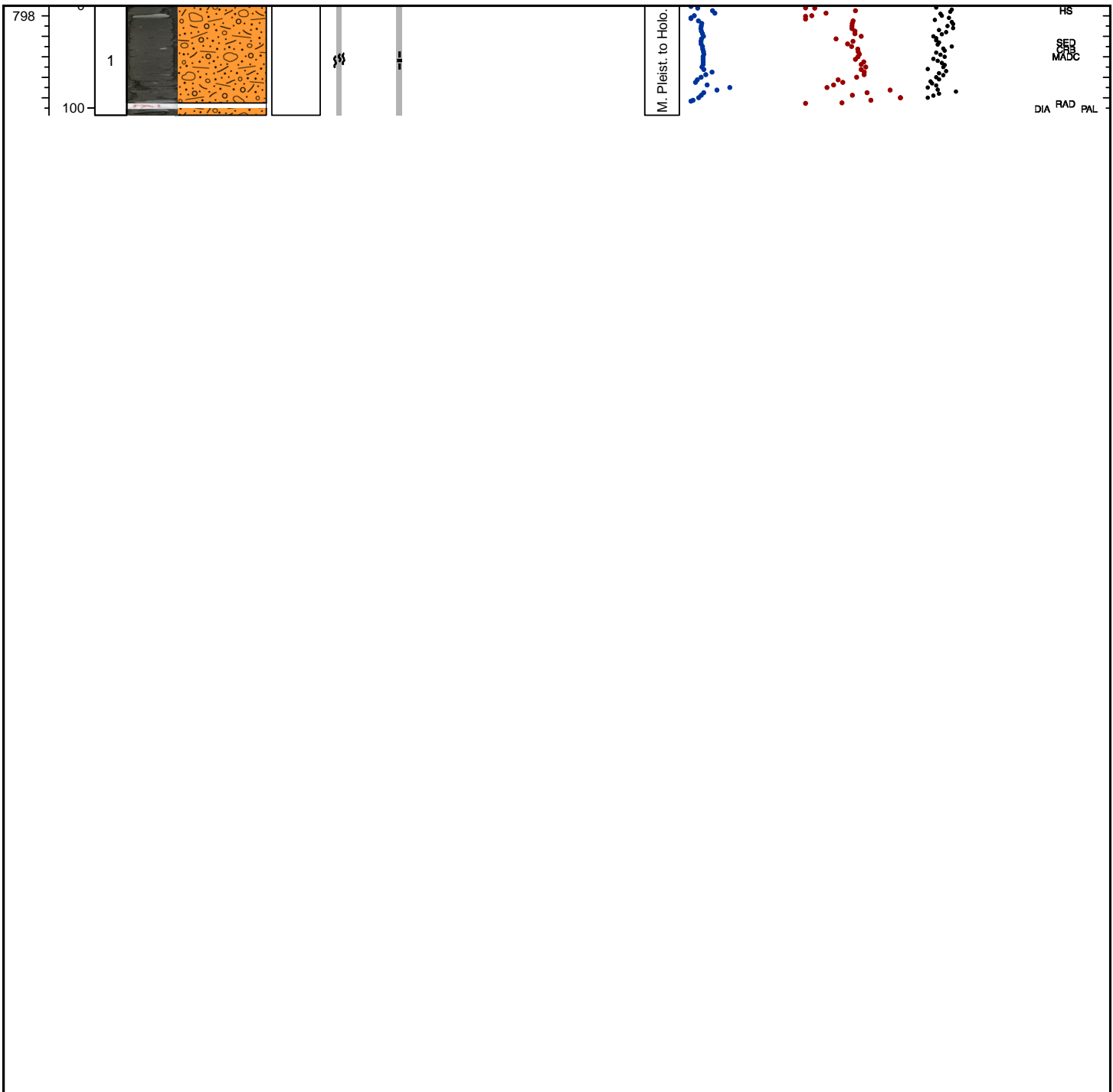
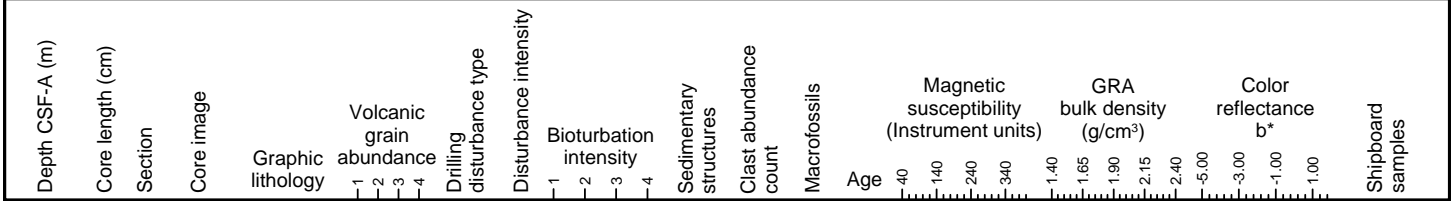
Dark greenish gray (10Y 3/1 to 10Y 4/1) mud that contains trace amounts of sponge spicules and fragments of diatoms is the major lithology. A very gradational transition from clast-free mud towards silty/sandy mud and into clast-rich diamict is observed in Section 1. Very dark gray (N 3) muddy clast-rich diamict with some more sandy intervals and shell fragments is observed in Section 2 and the CC. Clast lithologies include siltstone, greenstone, and granite. Magnetic susceptibility is out of range in Section 1.



Hole 341-U1420A Core 84R, Interval 797.7-798.77 m (CSF-A)

CLAST-RICH DIAMICT

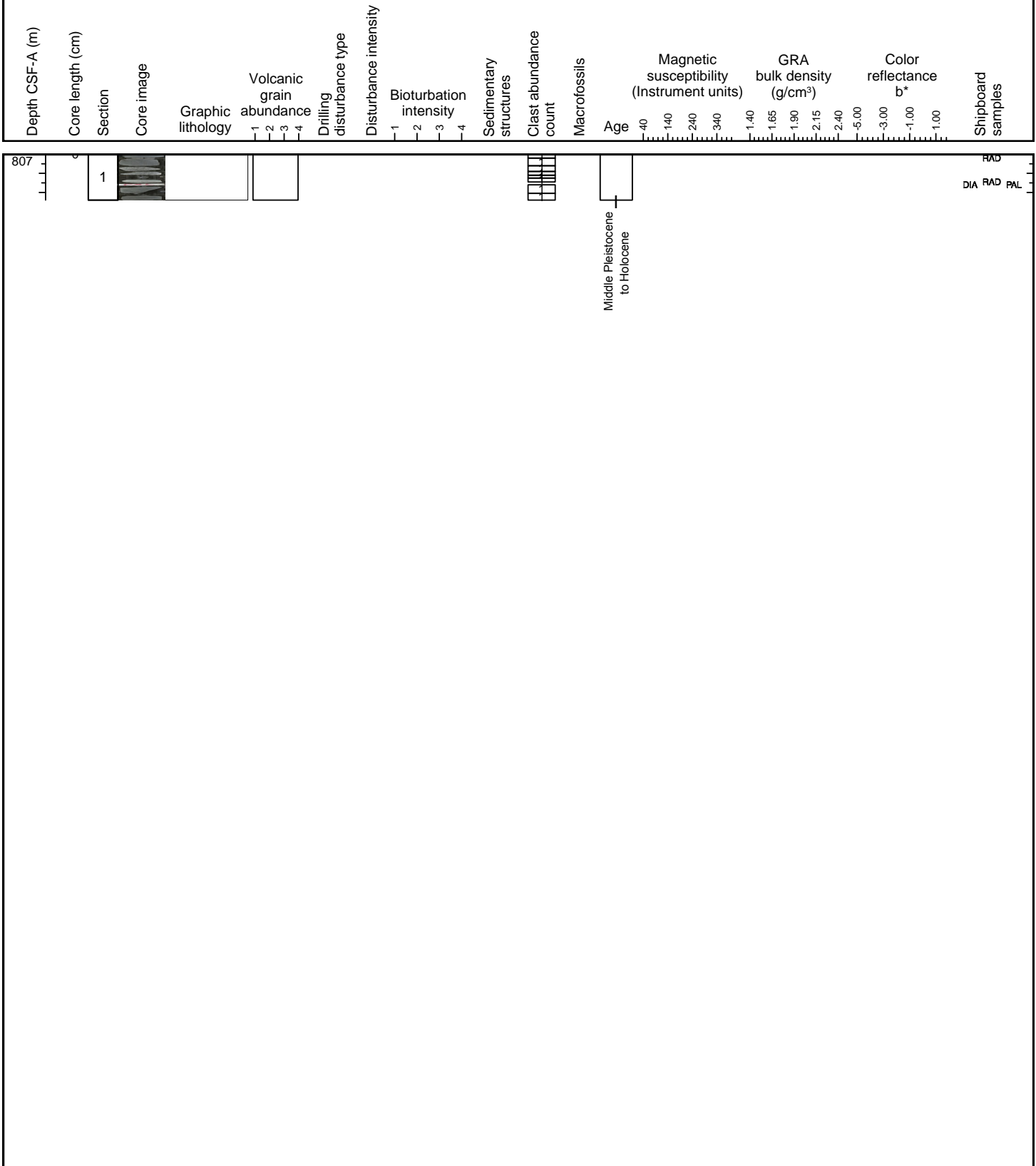
Very dark gray (N 3) clast-rich diamict with sandy-mud matrix is the major lithology. Lithologies of granules and pebbles including well-cemented to slightly metamorphosed sandstone, sandstone, greenstone, shale (partly with pyrite), metasediment with quartz veins, vein quartz, siltstone/very-fine sandstone, partly weathered grano-dioritic pebble, green & fine-grained volcanic clast, basalt(?).



Hole 341-U1420A Core 85R, Interval 807.4-807.88 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include metagraywacke, sandstone, granite (or diorite?), greenstone, and siltstone.

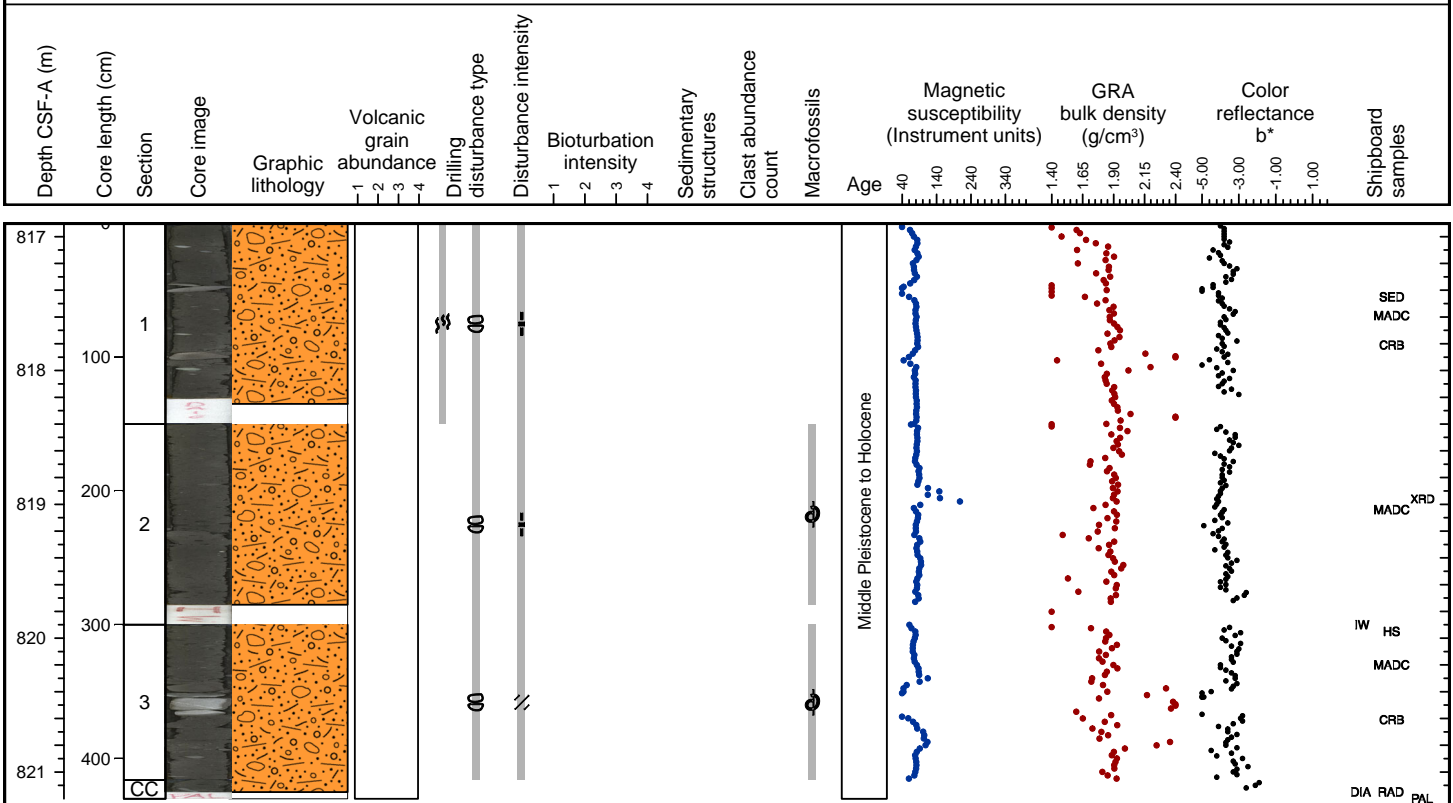




Hole 341-U1420A Core 86R, Interval 817.1-821.4 m (CSF-A)

CLAST-RICH DIAMICT

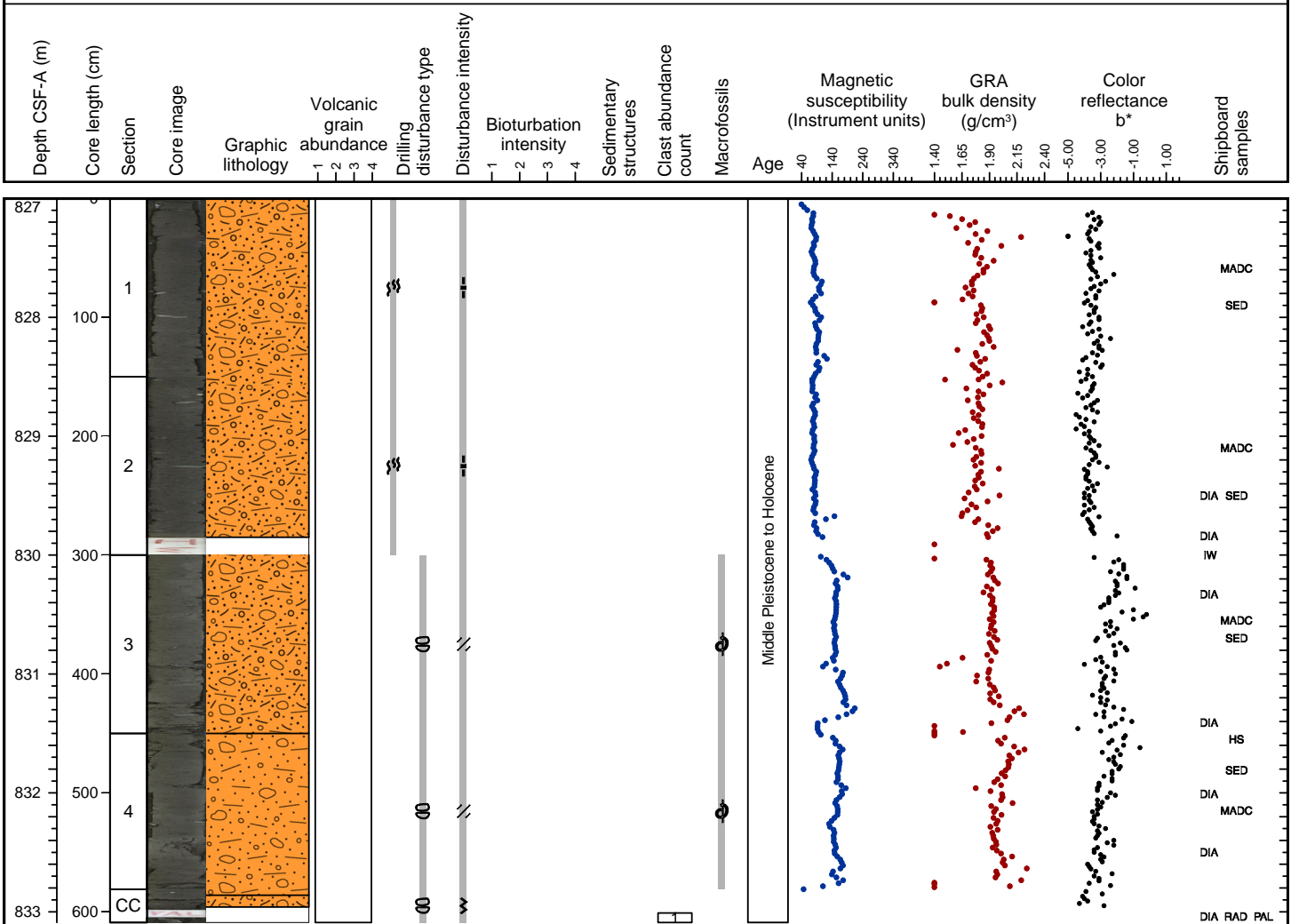
Very dark gray (N 3) massive clast-rich diamict with a sandy-mud matrix is the major lithology. Lithologies of granules, pebbles and cobbles include siltstone, sandstone, granitoids, greenstone, quartz-mica schist and metasiltstone. Shell fragments are present.



Hole 341-U1420A Core 87R, Interval 826.8-832.89 m (CSF-A)

CLAST-RICH DIAMICT, CLAST-POOR DIAMICT

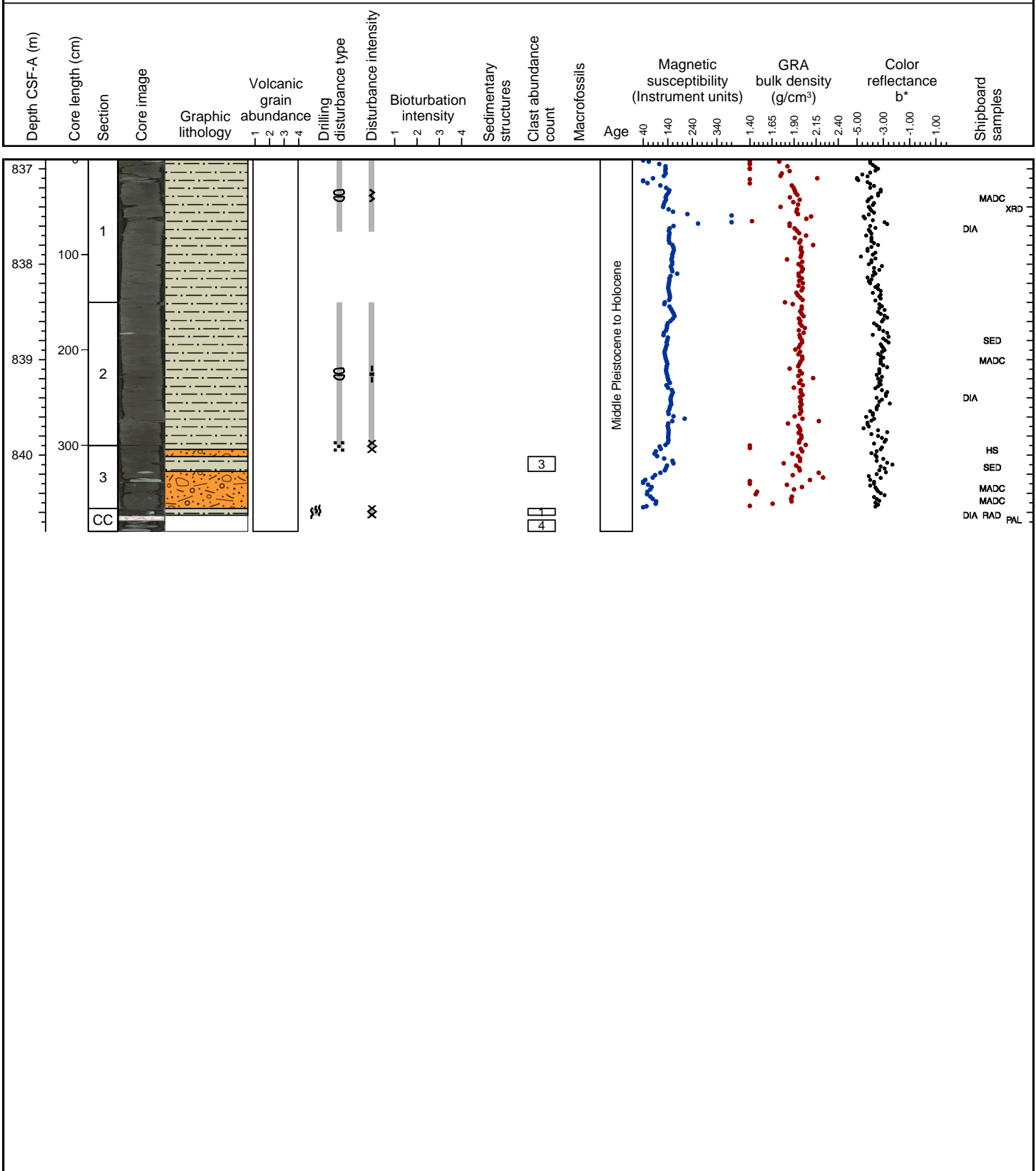
Dark gray (N 4) to very dark gray (N 3) clast-rich diamict with a sandy mud matrix that contains foraminifers is the major lithology. A sharp color boundary from very dark gray (N 3) to dark greenish gray (10Y 4/1), silty clast-rich diamict is observed at the bottom of Section 2. Dark greenish gray (10Y 4/1) to dark gray (N 4) clast-poor diamict with dispersed shell fragments is a minor lithology. Granules and pebbles of silt-, sand- and greenstone, and granitoids are present.



Hole 341-U1420A Core 88R, Interval 836.5-840.4 m (CSF-A)

MUD, CLAST-RICH DIAMICT, MINOR LITHOLOGY NOT RECOVERED

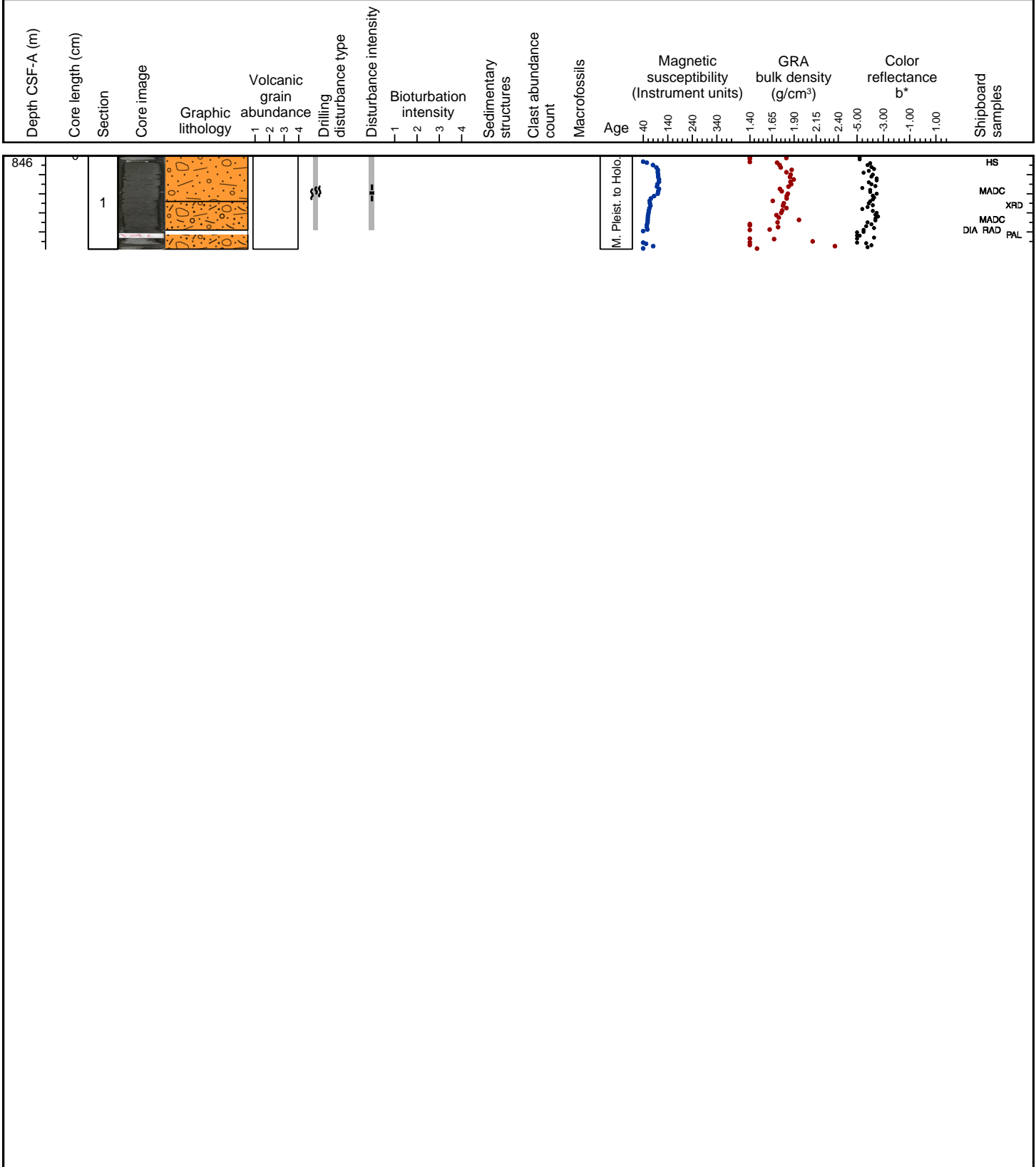
Very dark gray (N 3) and dark gray (N 4) silty mud with dispersed clasts is the major lithology. Clast-rich diamict is a minor lithology in Section 3. Clast lithologies include sandstone, siltstone, basalt, vein quartz, argillite, granite, and gneiss. Thin intervals of mud without clasts greater than 2 mm are present in Sections 3 and CC. In the core catcher a minor lithology was not recovered below the PAL sample due to matrix material being washed away while drilling.



Hole 341-U1420A Core 89R, Interval 846.2-847.18 m (CSF-A)

CLAST-POOR DIAMICT, CLAST-RICH DIAMICT

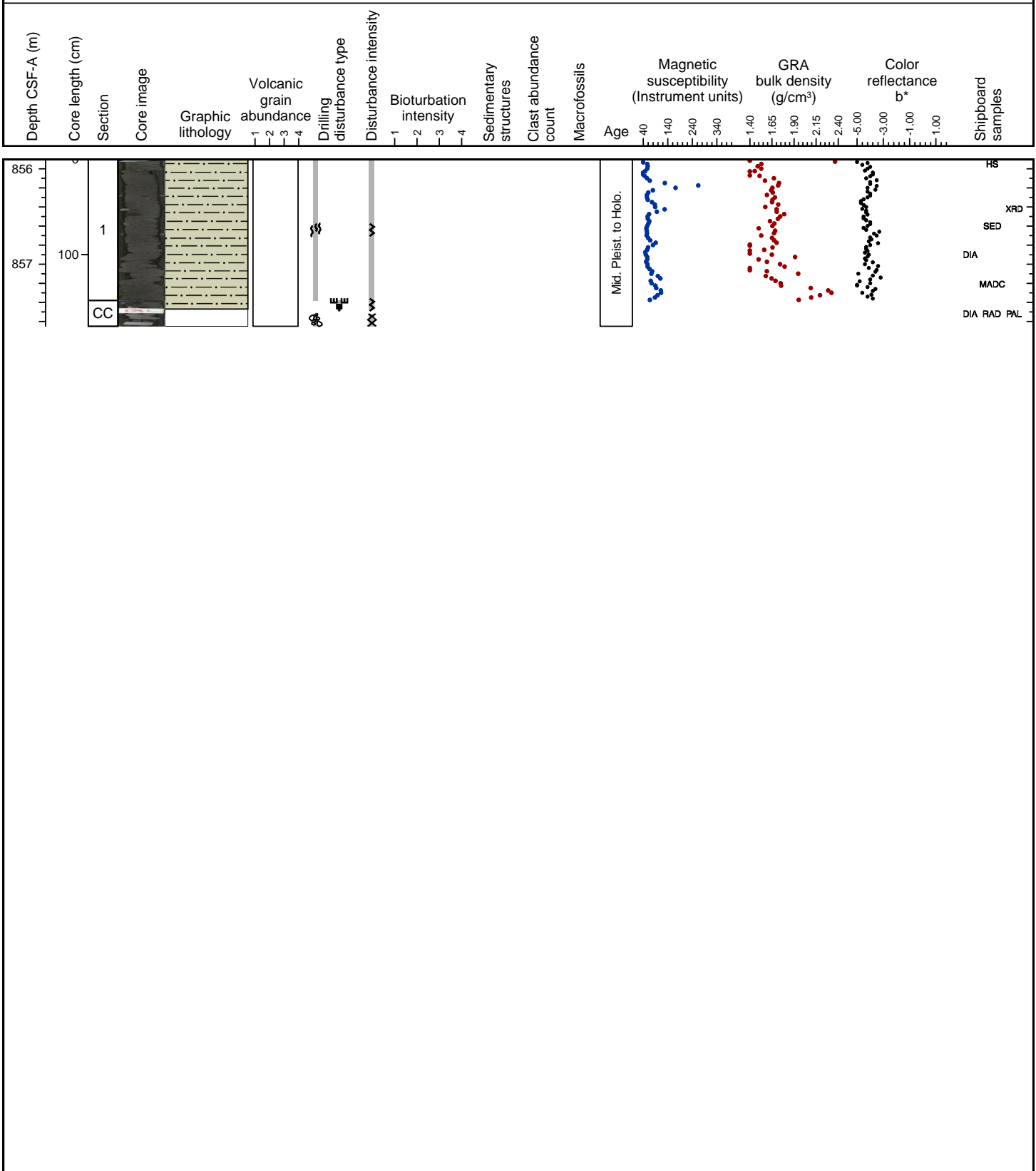
Dark gray (N 4) clast-poor diamict is the major lithology. Very dark gray (N 3) clast-poor diamict is a minor lithology. Clast lithologies include sandstone, granite, basalt (some vesicular), siltstone, and quartz.



Hole 341-U1420A Core 90R, Interval 855.9-857.65 m (CSF-A)

MUD, MINOR LITHOLOGY NOT RECOVERED

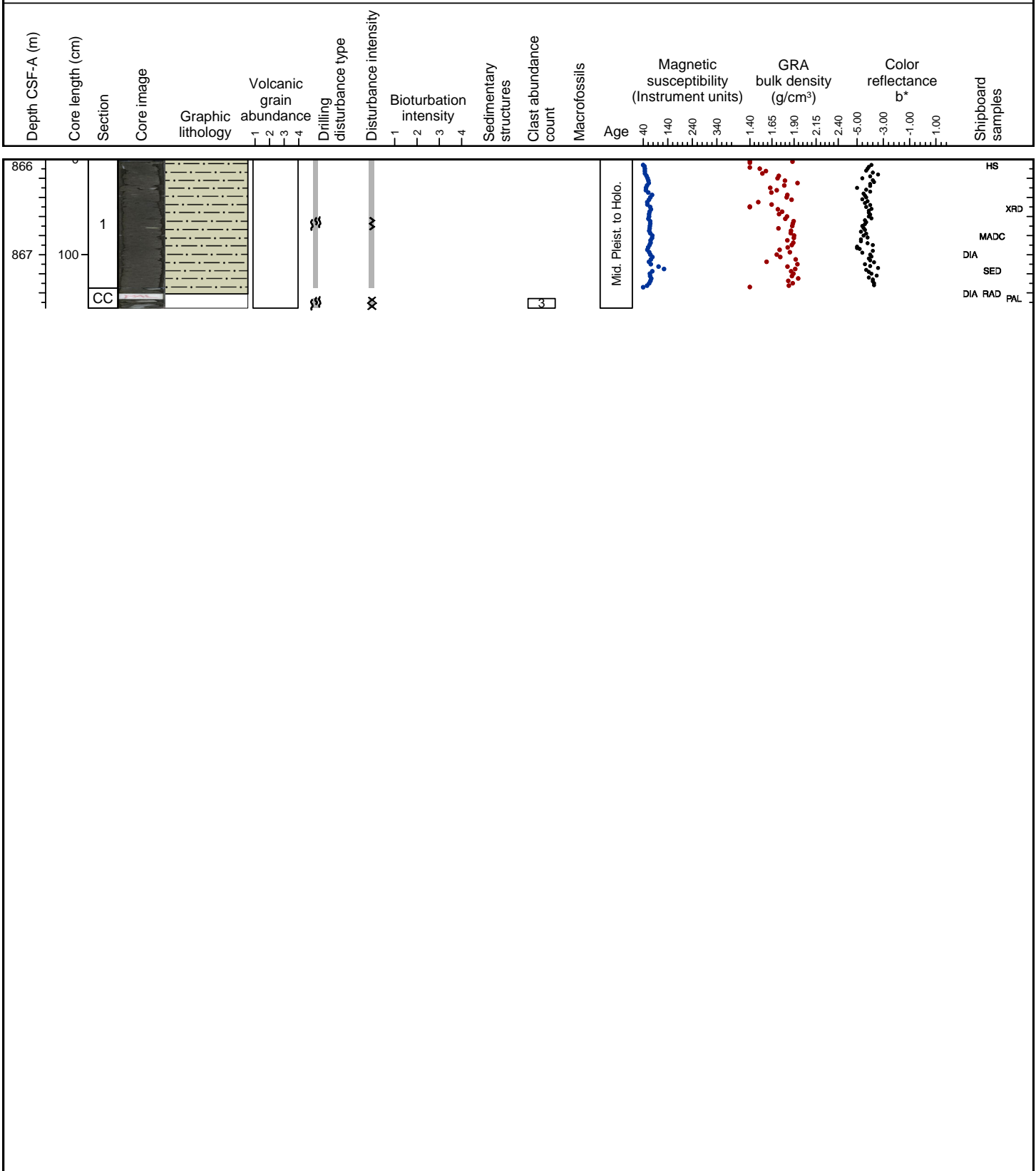
Very dark gray (N 3) silty mud with abundant clasts is the major lithology. The minor lithology was not recovered in the lower interval of Section CC due to matrix material being washed away while drilling. Clast lithologies include siltstone, sandstone, basalt, rhyolite argillite and granite. Drilling disturbance in Section 1 is moderate, with the edges of the core at the liner washed away.



Hole 341-U1420A Core 91R, Interval 865.6-867.16 m (CSF-A)

MUD, MINOR LITHOLOGY NOT RECOVERED

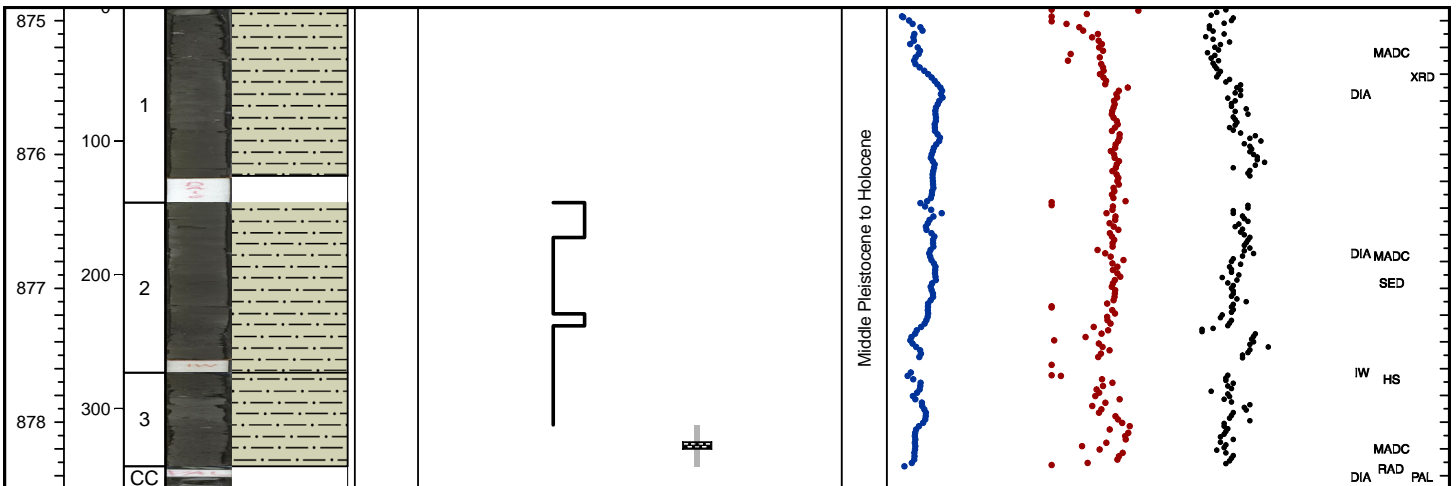
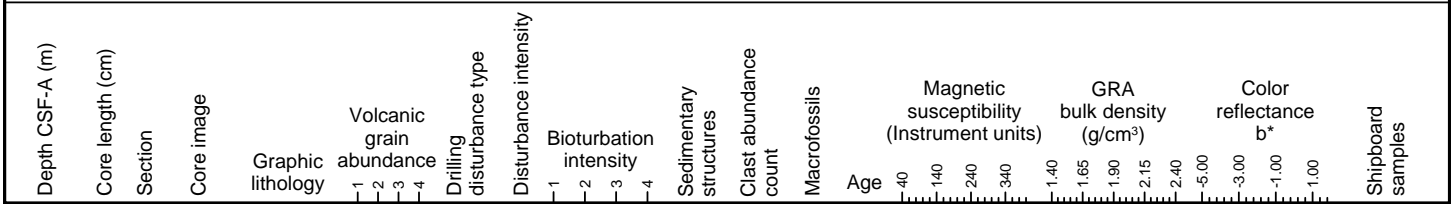
Very dark gray (N 3) silty mud with abundant clasts is the major lithology. The minor lithology was not recovered in the lower interval of Section CC due to matrix material being washed away while drilling. Clast lithologies include siltstone, sandstone, metaigneous, basalt, granite, and argillite. Drilling disturbance in Section 1 is moderate, with the edges of the core at the liner washed away.



Hole 341-U1420A Core 92R, Interval 875.3-878.9 m (CSF-A)

MUD, MINOR LITHOLOGY NOT RECOVERED

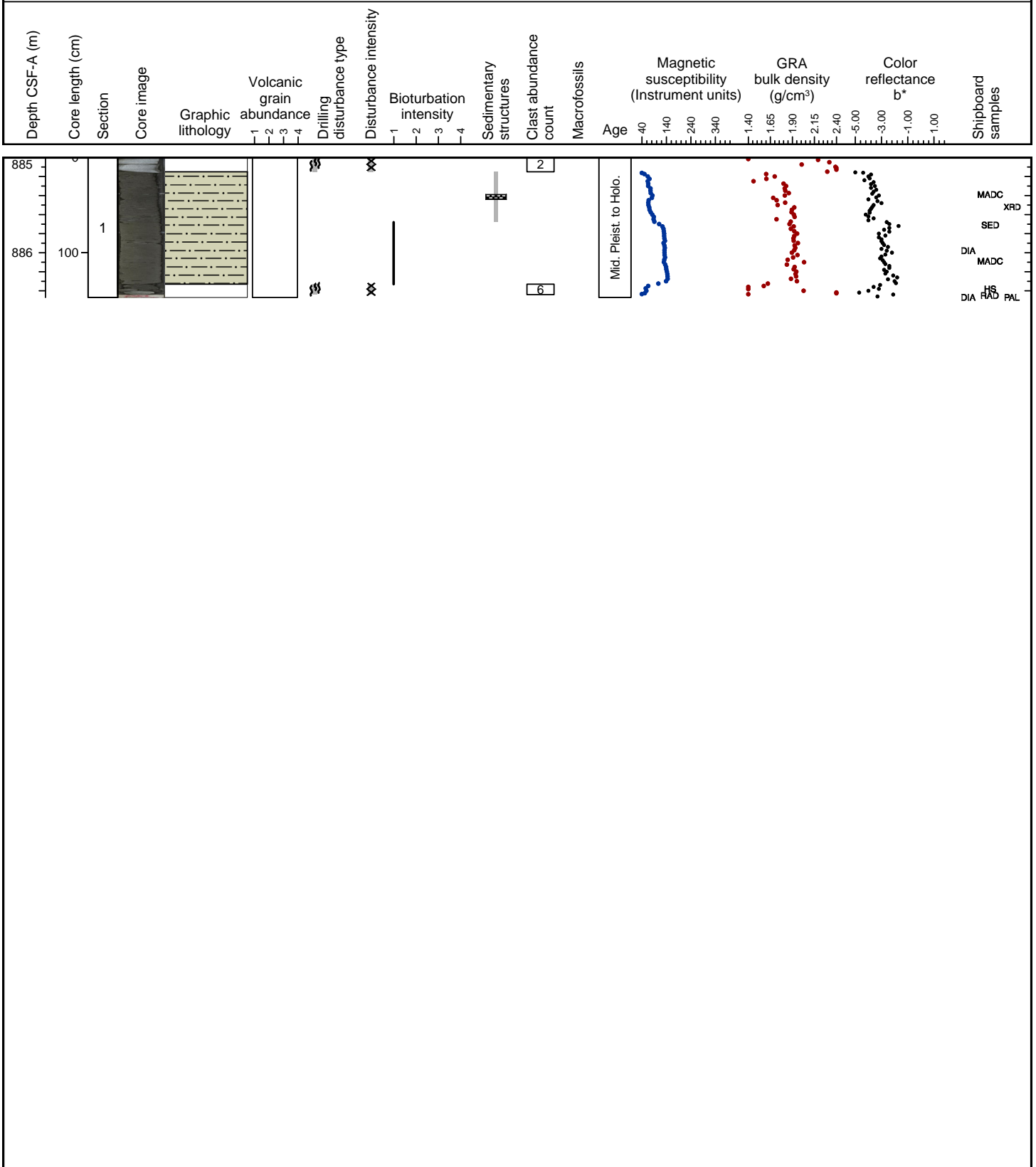
Very dark gray (N 3) to dark gray (N 4) silty mud with dispersed clasts is the major lithology. Slight to moderate bioturbation is present. Very dark gray (N 3) silty mud with abundant clasts is the minor lithology. Clasts in the minor lithology may have a preferred horizontal orientation. Upper contacts may be disturbed by bioturbation. The minor lithology was not recovered in Section CC due to matrix material being washed away while drilling. Clasts include rhyolite, granite sandstone, siltstone, basalt, argillite and gneiss.



Hole 341-U1420A Core 93R, Interval 885.0-886.47 m (CSF-A)

MUD, MINOR LITHOLOGY NOT RECOVERED

Dark gray (N 4) silty mud with common clasts is the major lithology. Clasts are often preferentially horizontally oriented. Very dark gray (N 3) silty mud with abundant clasts is a minor lithology, and slight bioturbation is present. The contact between these intervals is erosive. Clasts lithologies include sandstone, siltstone, basalt, granite, quartz, mudstone, argillite, and diorite. The minor lithology was not recovered at the top and bottom of Section 1 due to matrix material being washed away while drilling.

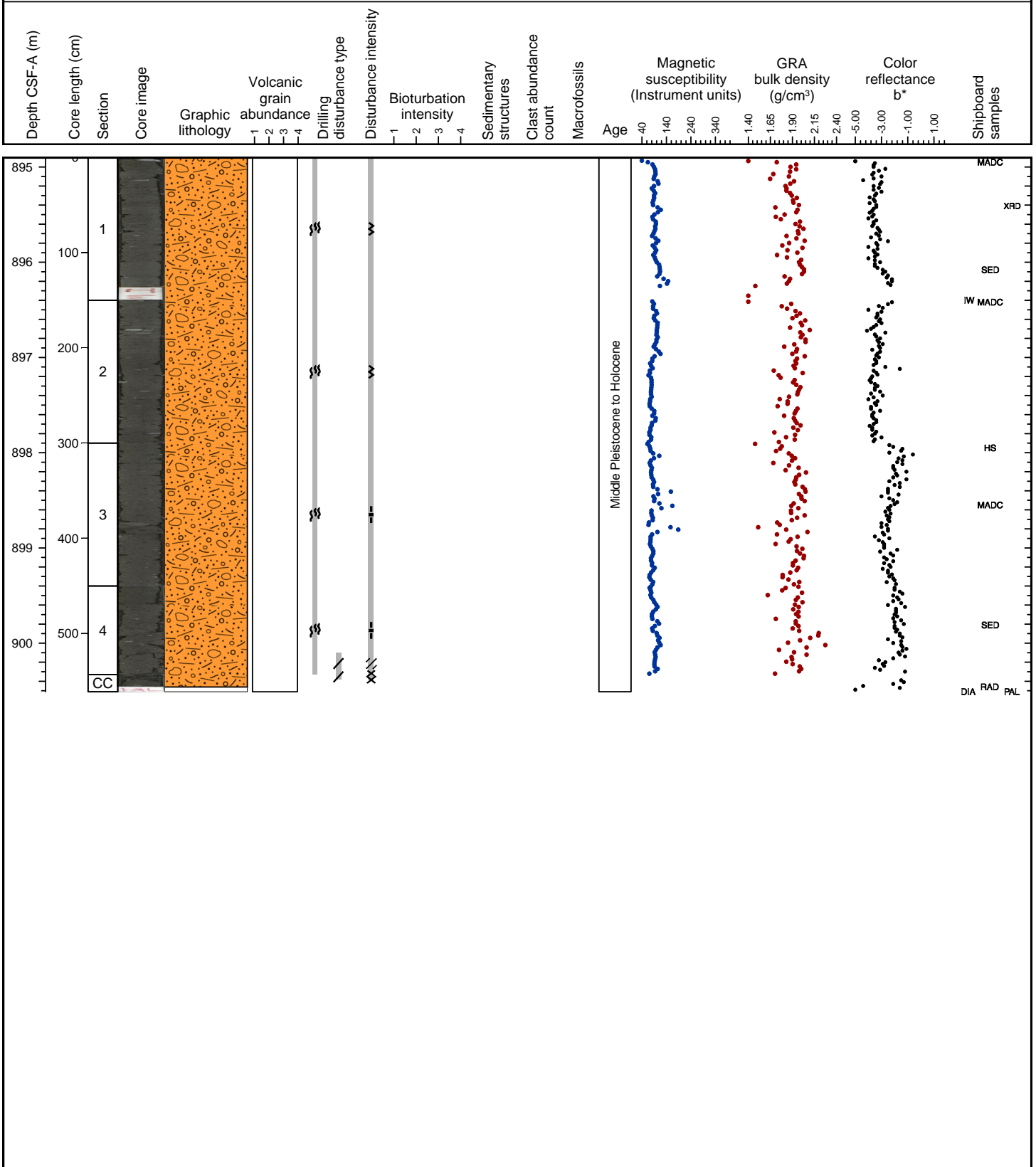




Hole 341-U1420A Core 94R, Interval 894.7-900.31 m (CSF-A)

CLAST-RICH DIAMICT

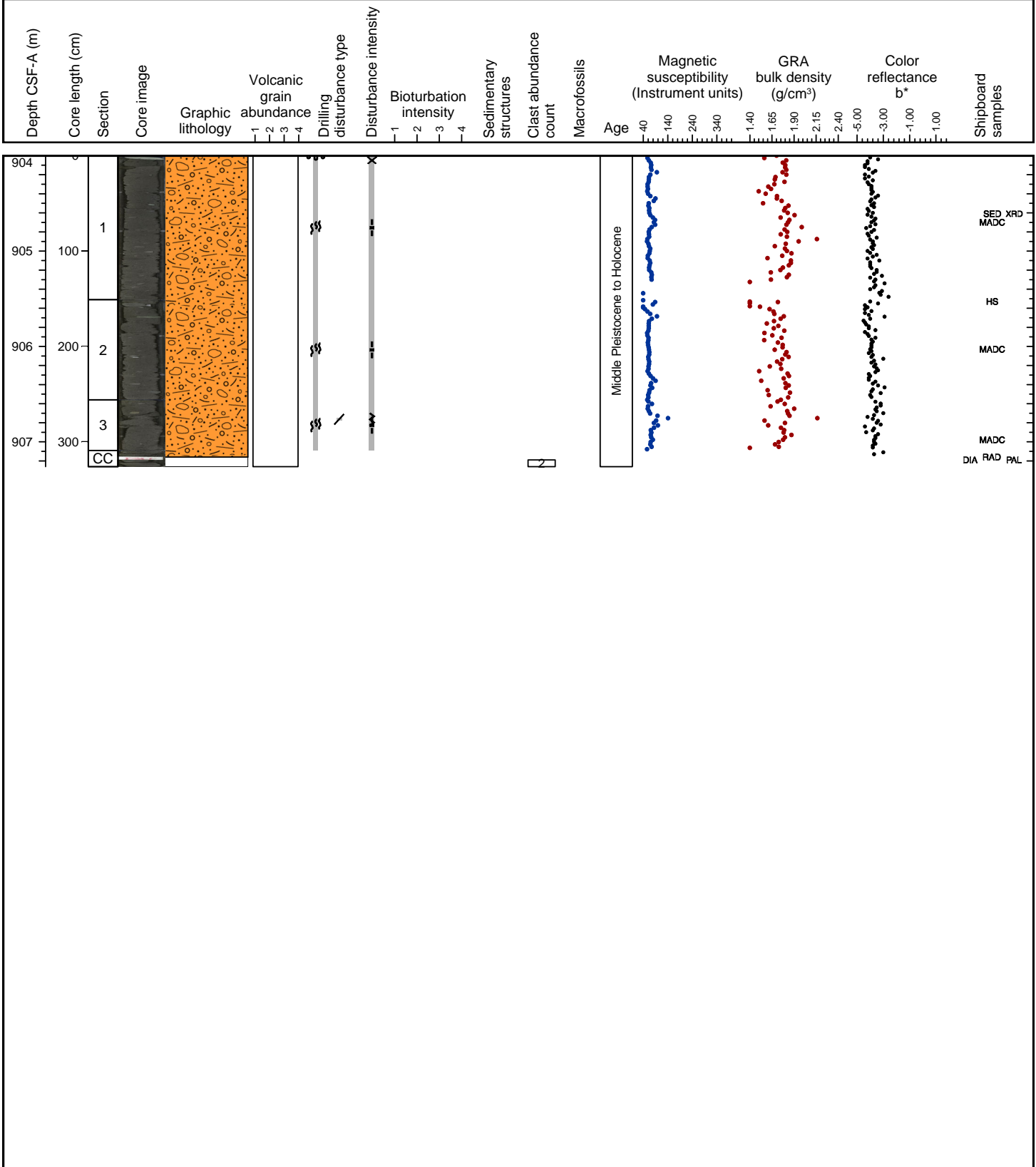
Very dark gray (N 3) muddy clast-rich diamict is the major lithology. Clast lithologies include basalt, sandstone, rhyolite, siltstone (some red), granite, vein quartz, greywacke, and diorite. Some very thin mud intervals have few clasts, and clasts are generally less than 2 cm. Drilling has disturbed the edge of the cores (washed), removing some matrix material.



Hole 341-U1420A Core 95R, Interval 904.4-907.66 m (CSF-A)

CLAST-RICH DIAMICT

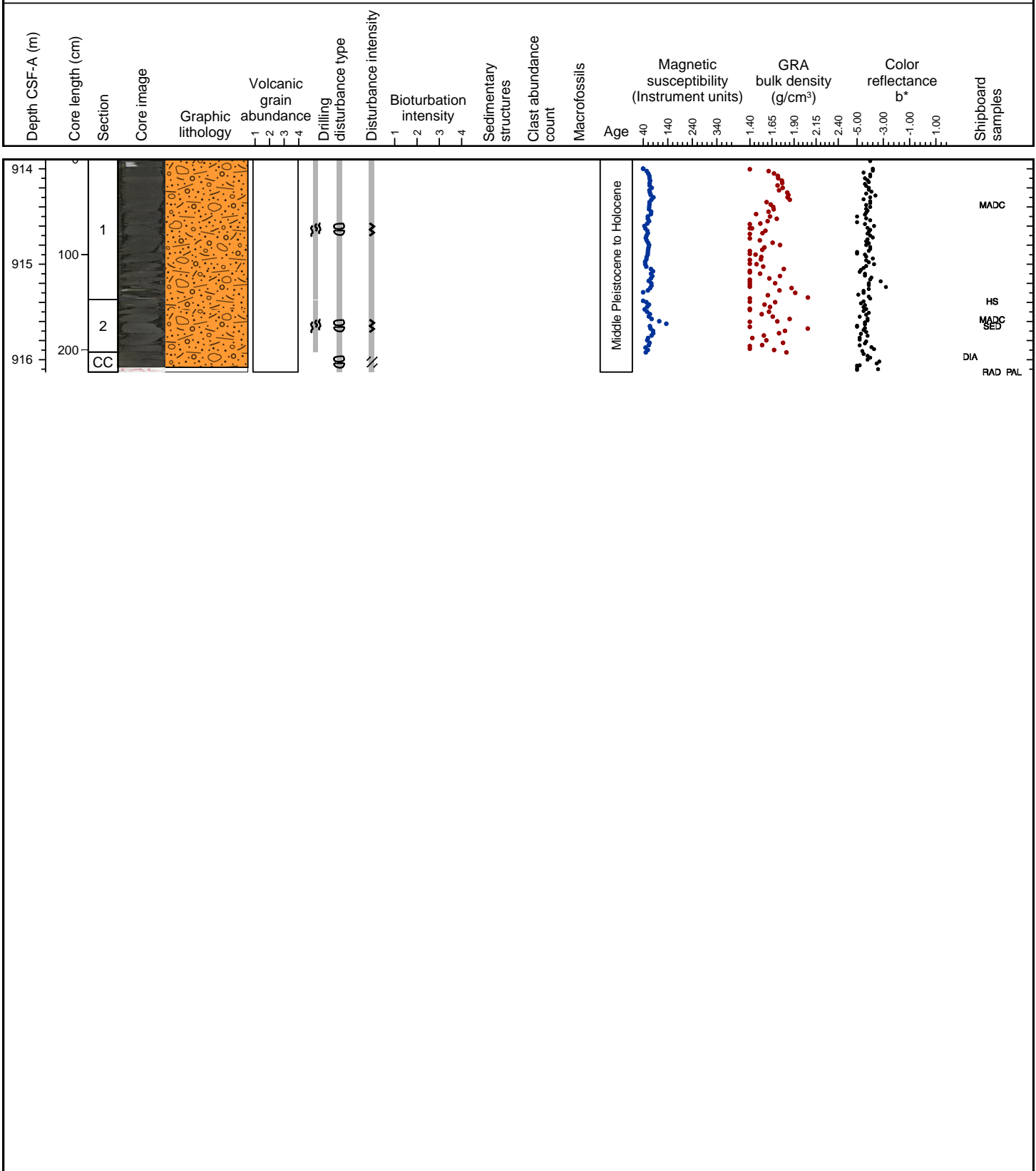
Very dark gray (N 3) clast-rich diamict with a sandy mud matrix is the major lithology. Granules and pebbles (up to 4 cm) of siltstone, sandstone, granitoids and greenstone are observed.



Hole 341-U1420A Core 96R, Interval 914.1-916.33 m (CSF-A)

CLAST-RICH DIAMICT

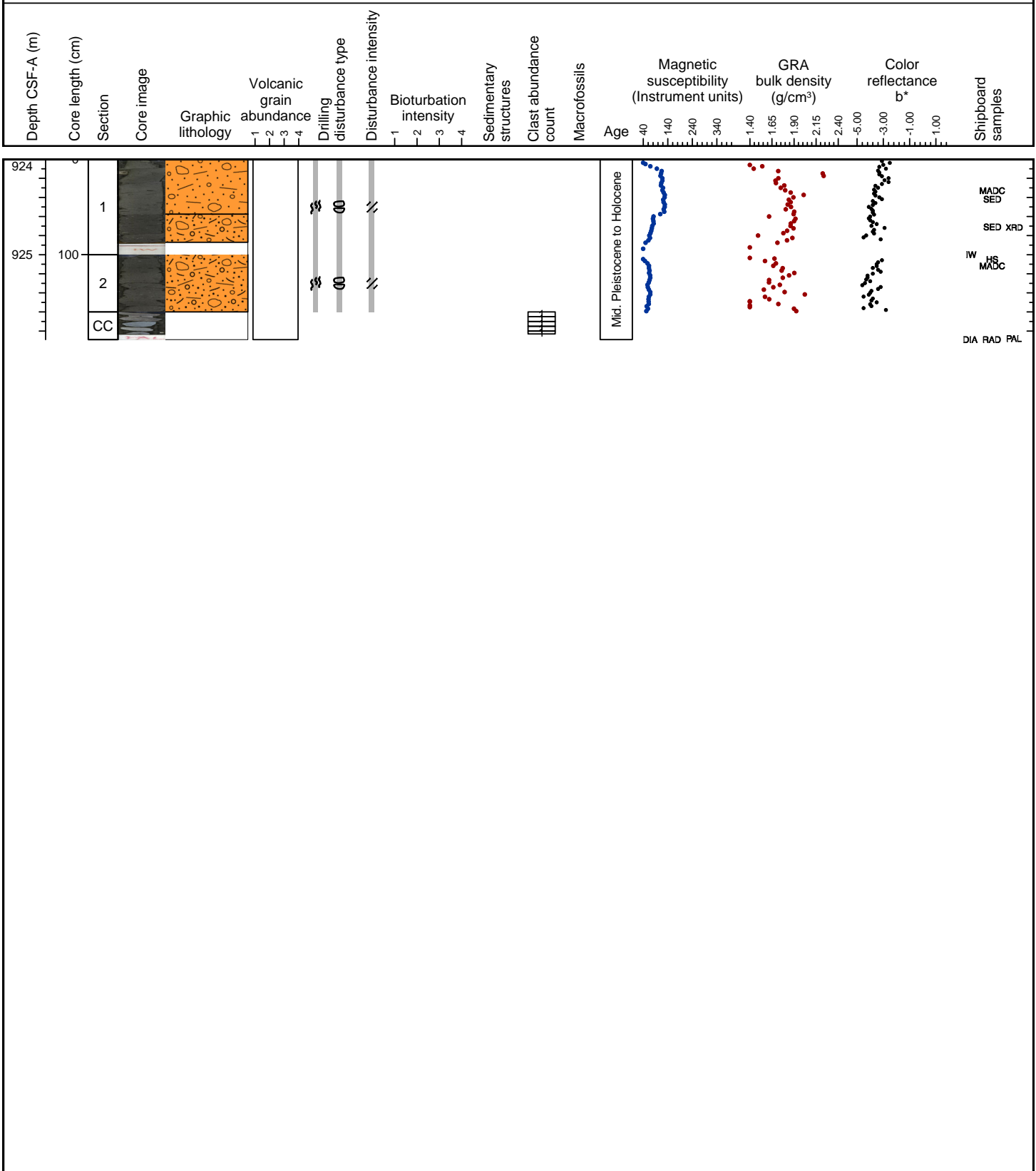
Very dark gray (N 3) clast-rich diamict with sandy mud matrix is the major lithology. Clasts of granule and pebble size include siltstone, sandstone, argillite, basalt, green metasediment(?).



Hole 341-U1420A Core 97R, Interval 923.8-925.69 m (CSF-A)

CLAST-RICH DIAMICT, CLAST-POOR DIAMICT, MINOR LITHOLOGY NOT RECOVERED

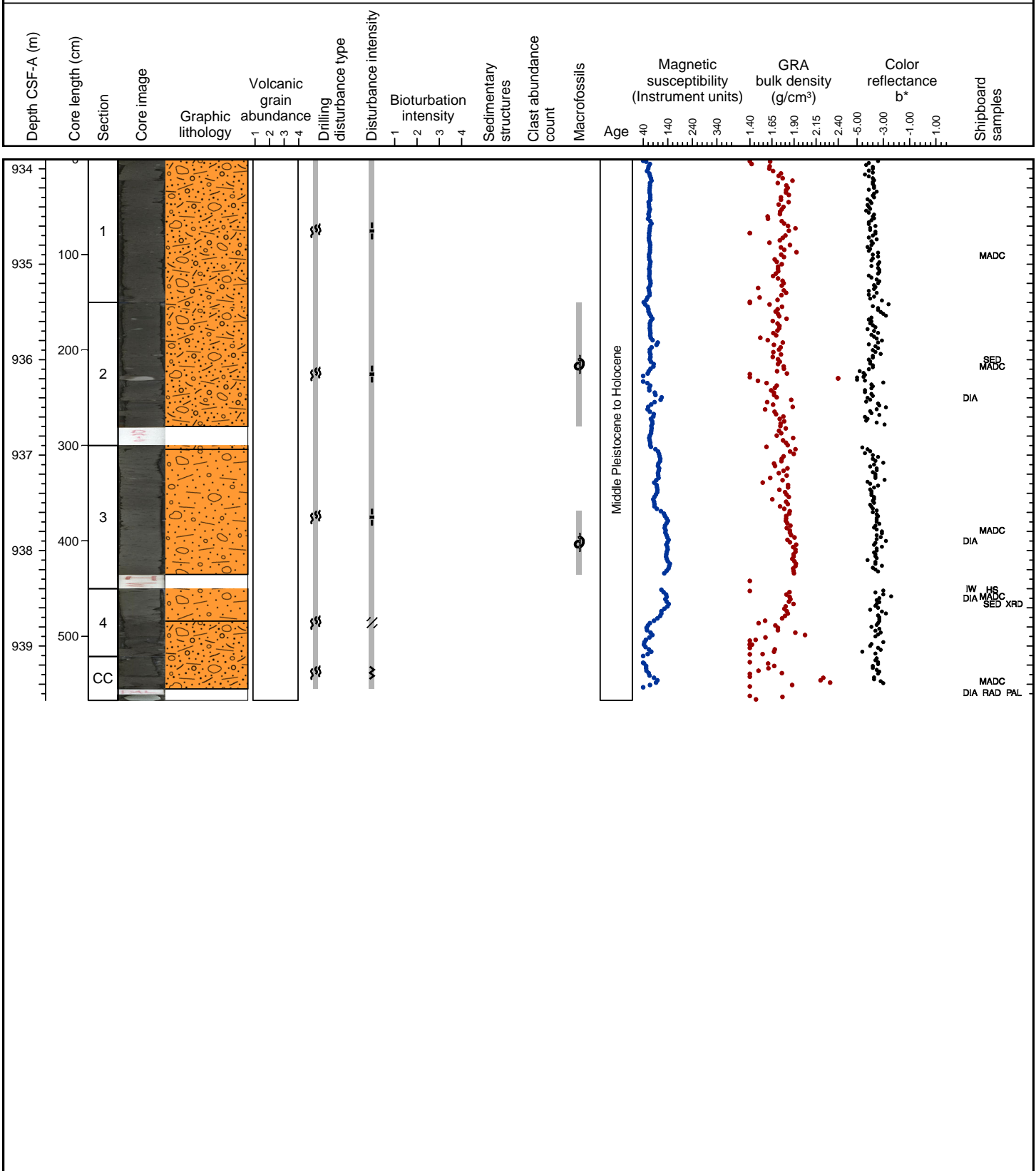
Very dark gray (N 3) clast-rich diamict with sandy mud matrix is the major lithology. Dark gray (N 4) clast poor diamict is a minor lithology. An additional minor lithology was washed away during drilling, but pebble clasts were recovered. Clasts include siltstone, greenstone, fine-grained conglomerate(?), argillite, vein quartz, basalt, metasandstone and volcanic breccia with Cu-bearing quartz vein.



Hole 341-U1420A Core 98R, Interval 933.5-939.17 m (CSF-A)

CLAST-RICH DIAMICT, CLAST-POOR DIAMICT

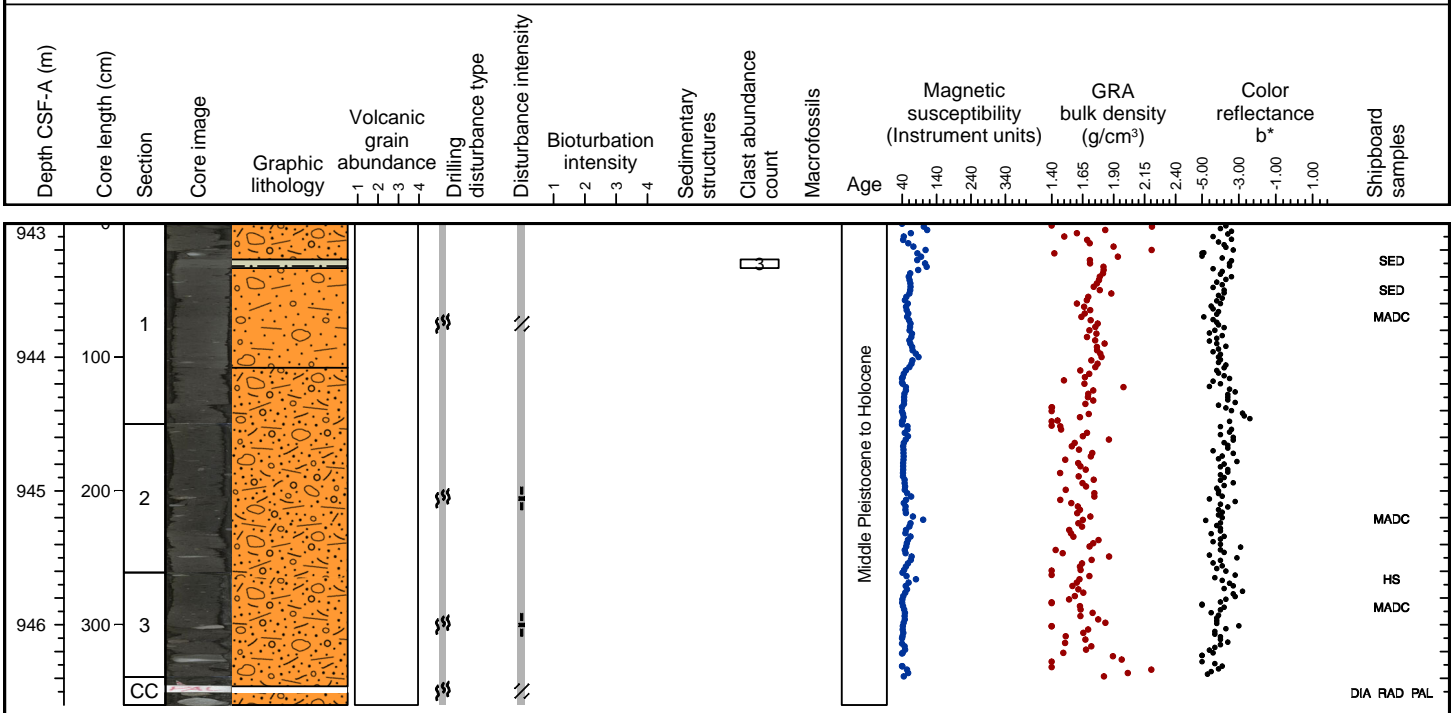
Very dark gray (N 3) clast-rich diamict with a sandy mud matrix that contains many opaque minerals is the major lithology. Minor lithology is dark gray (N 4) clast-poor diamict with a very fine (clayey) mud matrix with abundant hornblende. Clast lithologies include siltstone, sandstone, metasandstone, greenstone, and granitoid. Transitions from clast-rich to clast-poor diamict intervals are observed in Sections 3 and 4.



Hole 341-U1420A Core 99R, Interval 943.2-946.8 m (CSF-A)

CLAST-RICH DIAMICT, CLAST-POOR DIAMICT, MUD

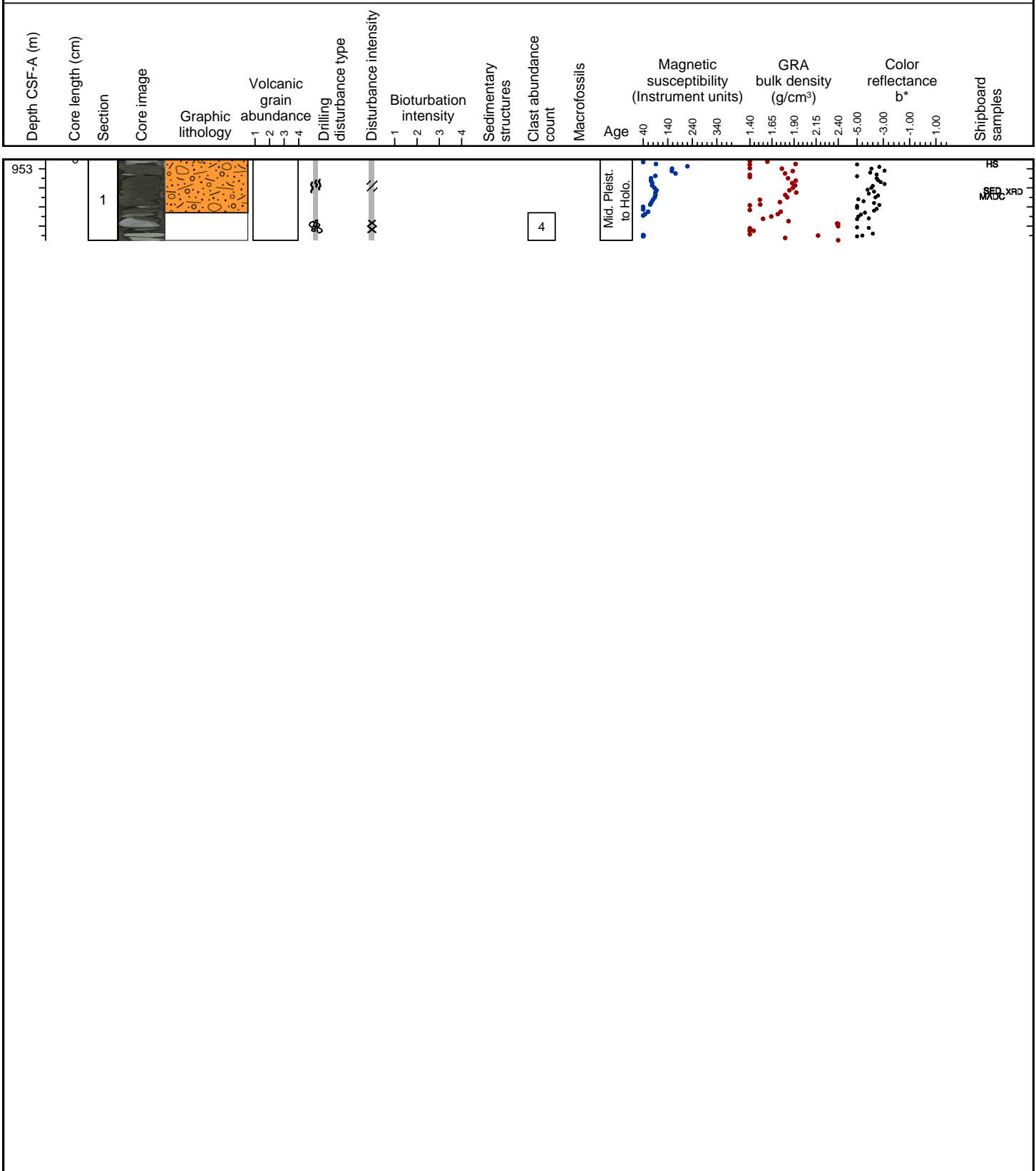
Very dark gray (N 3) clast-rich diamict with sandy mud matrix is the major lithology. Dark gray (N 4) clast-poor diamict with more muddy intervals, as well as dark gray (5Y 4/1) mud with dispersed clasts are minor lithologies. Clasts of granule and pebble size include siltstone, metasandstone, basalt, granite, sandstone, greenstone, argillite, vein quartz, mica-rich gneiss and volcanic breccia with feldspar(?). A shell fragment was found in Section 3.

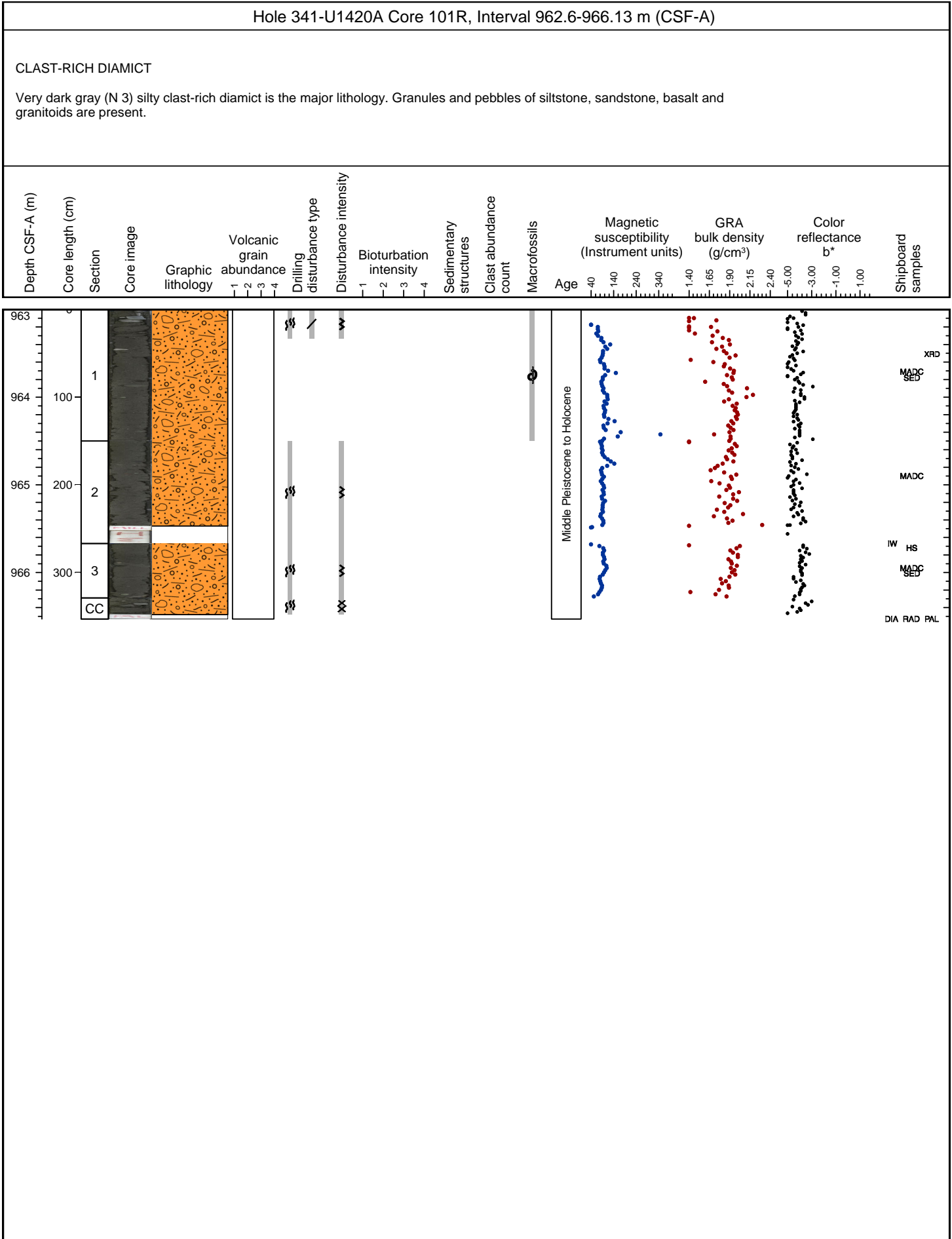


Hole 341-U1420A Core 100R, Interval 952.9-953.75 m (CSF-A)

CLAST-RICH DIAMICT, MINOR LITHOLOGY NOT RECOVERED

Very dark gray (N 3) clast-rich diamict with a sandy mud matrix that contains opaque minerals is the major lithology. Granules and pebbles (up to 1 cm) of siltstone, greenstone and granitoid are present. The lower part of the core is highly disturbed and contains washed cobbles of siltstone and metasandstone.



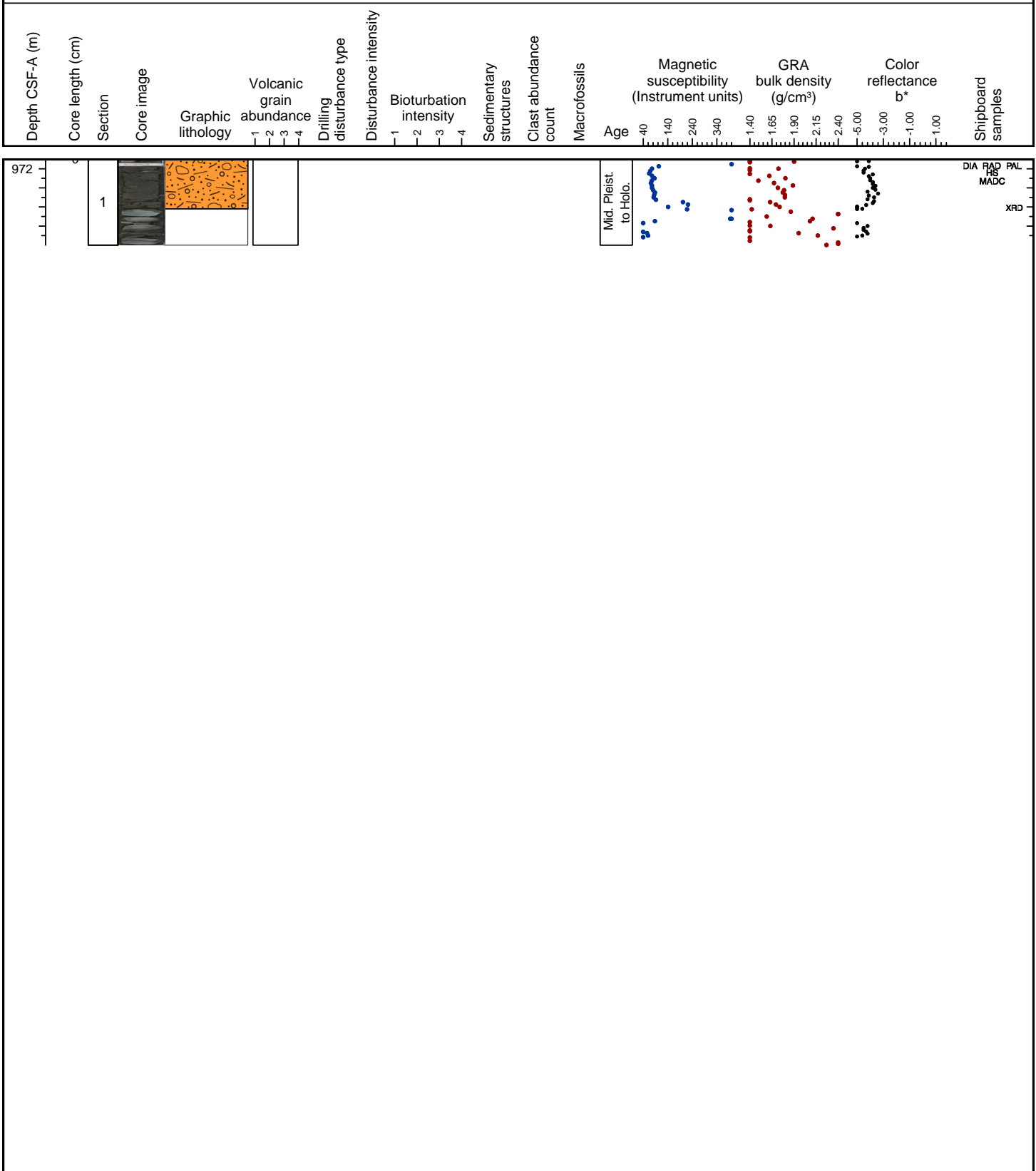




Hole 341-U1420A Core 102R, Interval 972.3-973.2 m (CSF-A)

CLAST-RICH DIAMICT

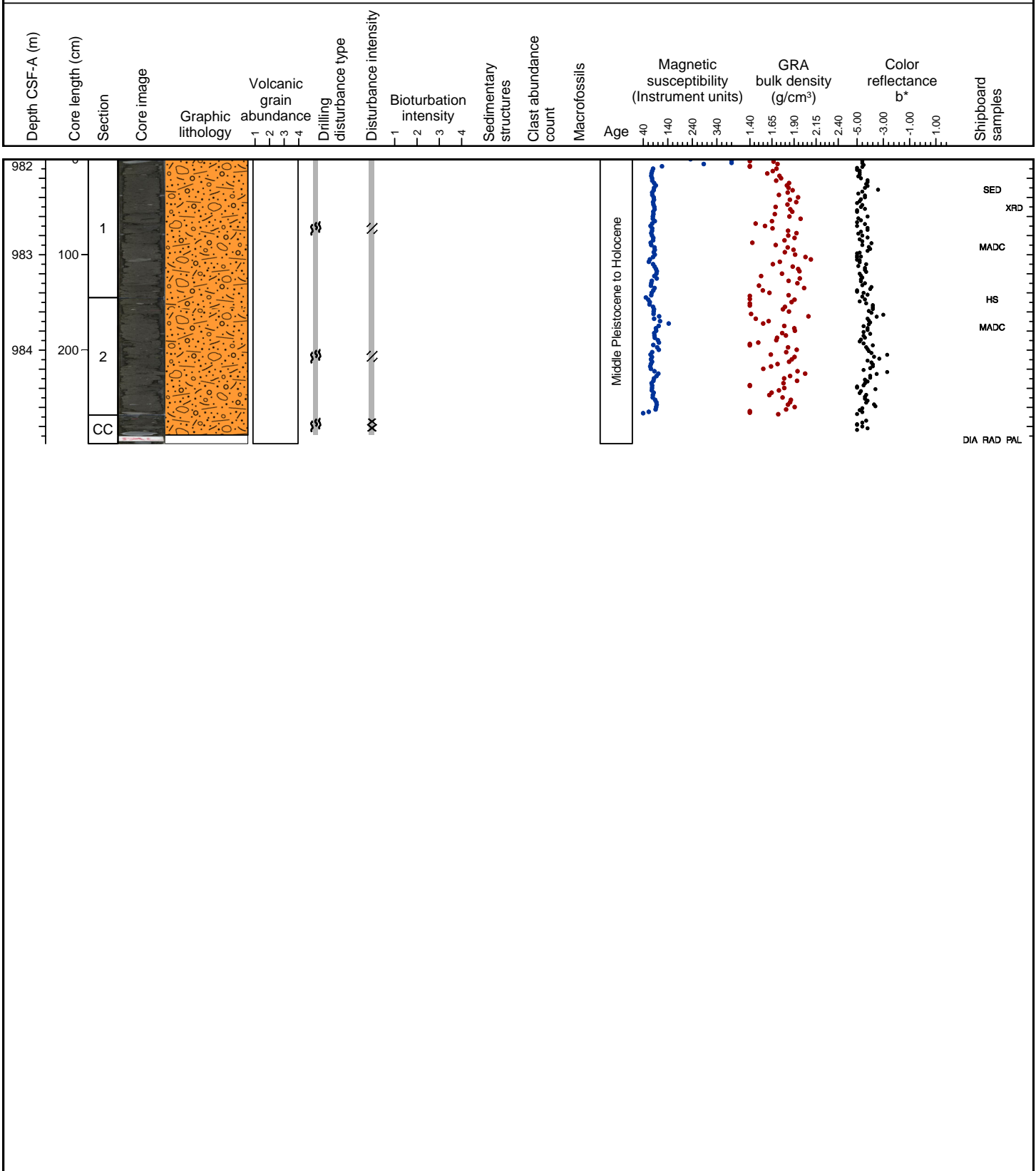
Very dark gray (N 3) muddy clast-rich diamict is the major lithology. Granules and pebbles of siltstone, sandstone, basalt and granitoids are present. The lower part of the core is highly disturbed due to matrix material being washed away while drilling. It contains washed cobbles of sandstone, siltstone and basalt.



Hole 341-U1420A Core 103R, Interval 982.0-984.98 m (CSF-A)

CLAST-RICH DIAMICT, MINOR LITHOLOGY NOT RECOVERED

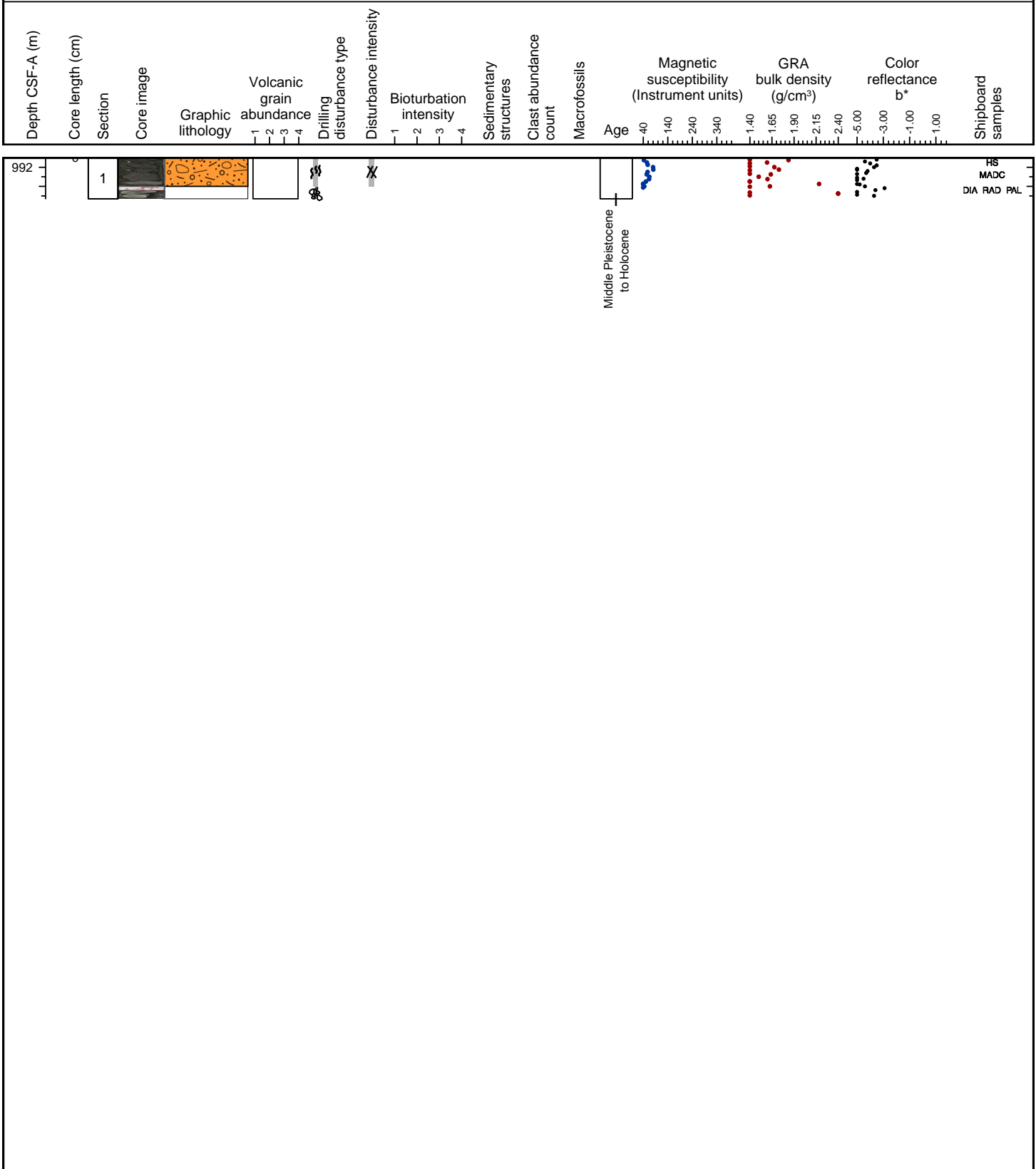
Very dark gray (N 3) silty clast-rich diamicct is the major lithology. Granules and pebbles of sandstone, siltstone, metasandstone, metasiltstone, quartz, granite, rhyolite, argillite, and basalt are present. Below the PAL sample in Section CC the matrix material was washed away while drilling and one sandstone pebble remains.



Hole 341-U1420A Core 104R, Interval 991.7-992.13 m (CSF-A)

CLAST-RICH DIAMICT

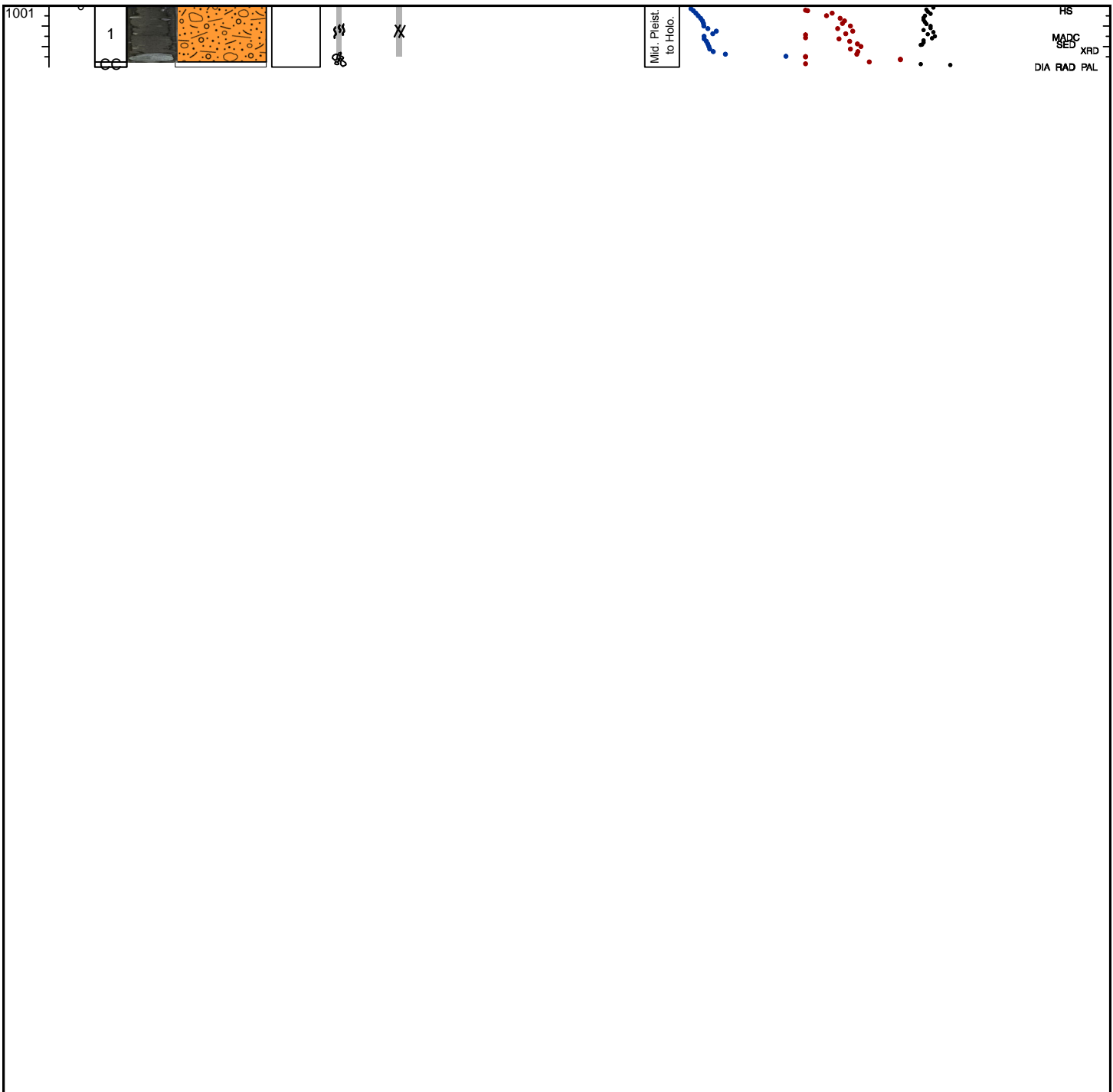
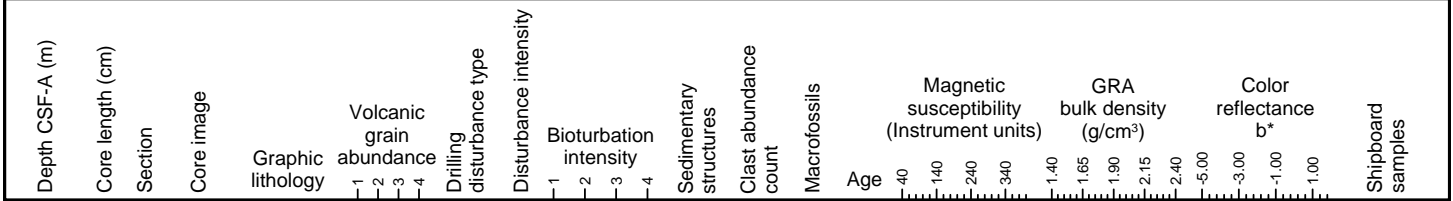
Very dark gray (N 3) clast-rich diamict is the major lithology. Granules and pebbles of siltstone, sandstone, basalt and granite are present. Below the PAL sample the matrix material was washed away while drilling. This interval contains washed pebbles of sandstone and basalt.



Hole 341-U1420A Core 105R, Interval 1001.4-1002.0 m (CSF-A)

CLAST-RICH DIAMICT, MINOR LITHOLOGY NOT RECOVERED

Very dark gray (N 3) silty clast-rich diamict is the major lithology. Granules and pebbles of siltstone, sandstone, basalt and granite are present. In the lower part of Section 1 the matrix material was washed away while drilling. This interval contains washed pebbles of siltstone and basalt.



Hole 341-U1420A Core 106R, Interval 1011.1-1014.58 m (CSF-A)

CLAST-RICH DIAMICT

Very dark gray (N 3) silty clast-rich diamict is the major lithology. In Section 3 an interval with preferred bedding parallel clast orientation occurs. Granules and pebbles of siltstone, sandstone, basalt, argillite and granite are present.

