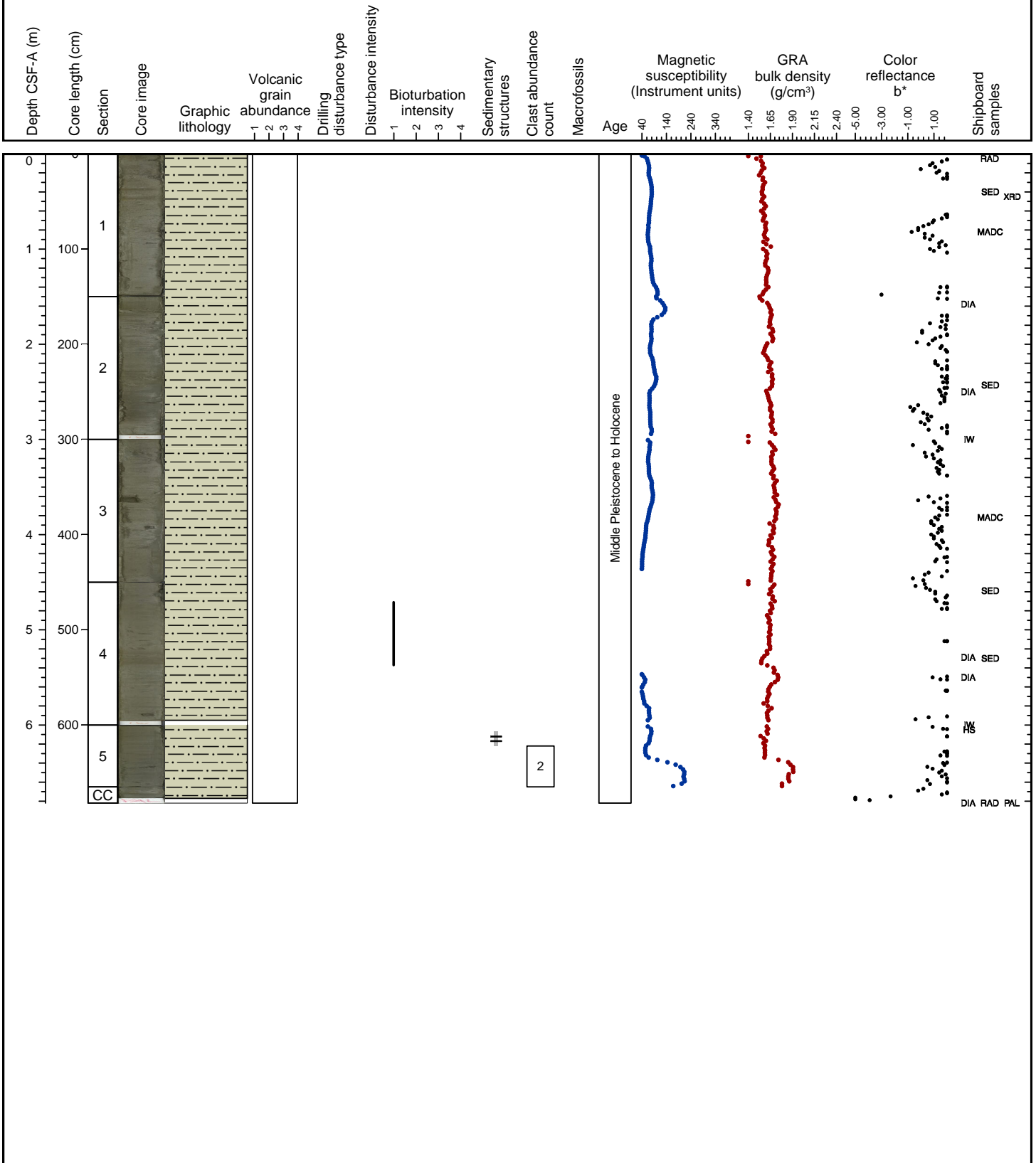


Hole 341-U1421A Core 1H, Interval 0.0-6.82 m (CSF-A)

MUD

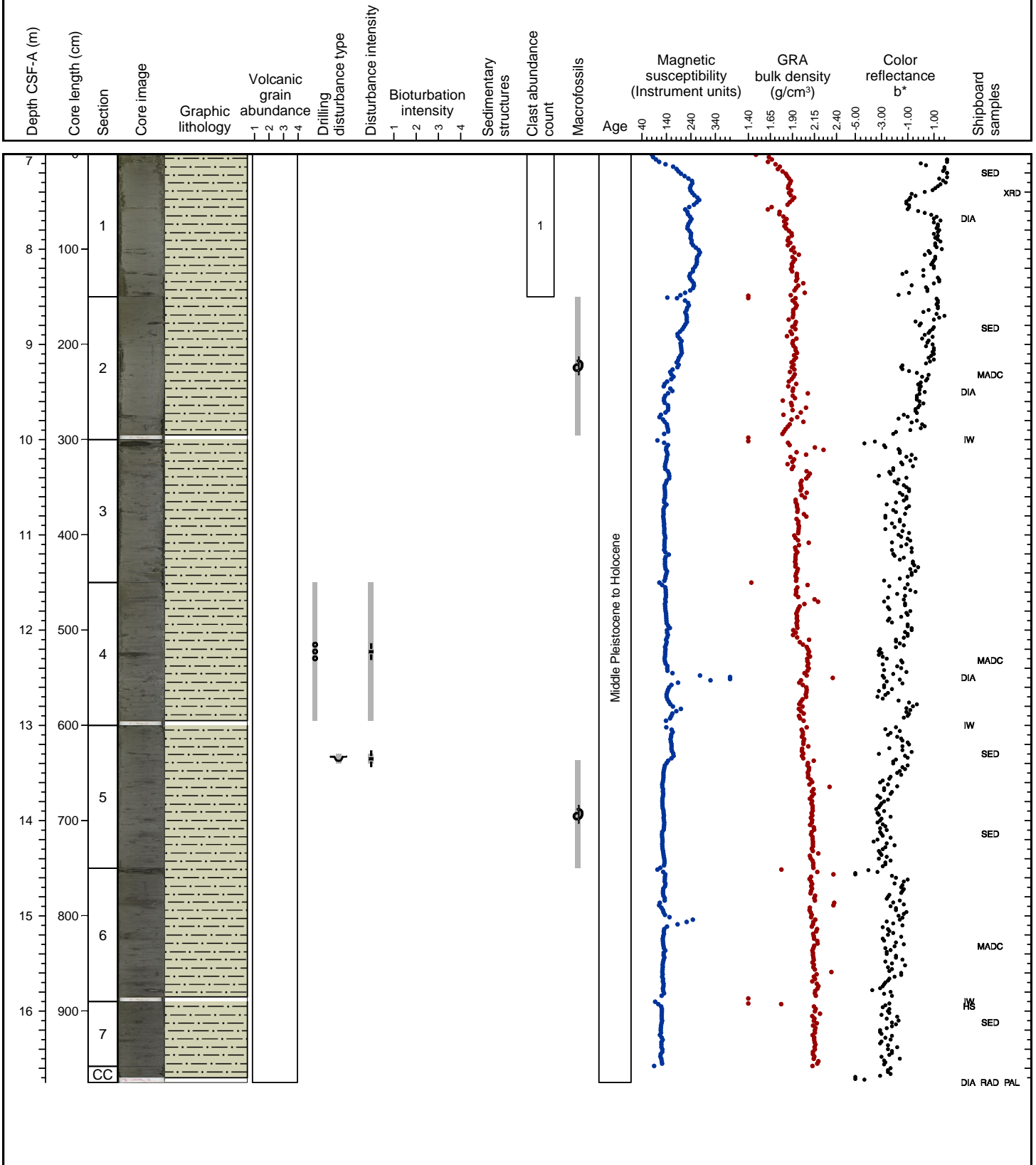
Dark greenish gray (10Y 4/1) diatom bearing mud is the major lithology. An interval of grayish green (10Y 4/2) diatom rich mud with foraminifera is present in Section 4, and the bottom contact is bioturbated. Mud with parallel olive-colored (5Y 5/3) laminae is present in Section 5. Granule sized limestones are present in Section 5. Black mottling is evident throughout the core. Magnetic susceptibility measurements fall below the lower axis in Section 4.

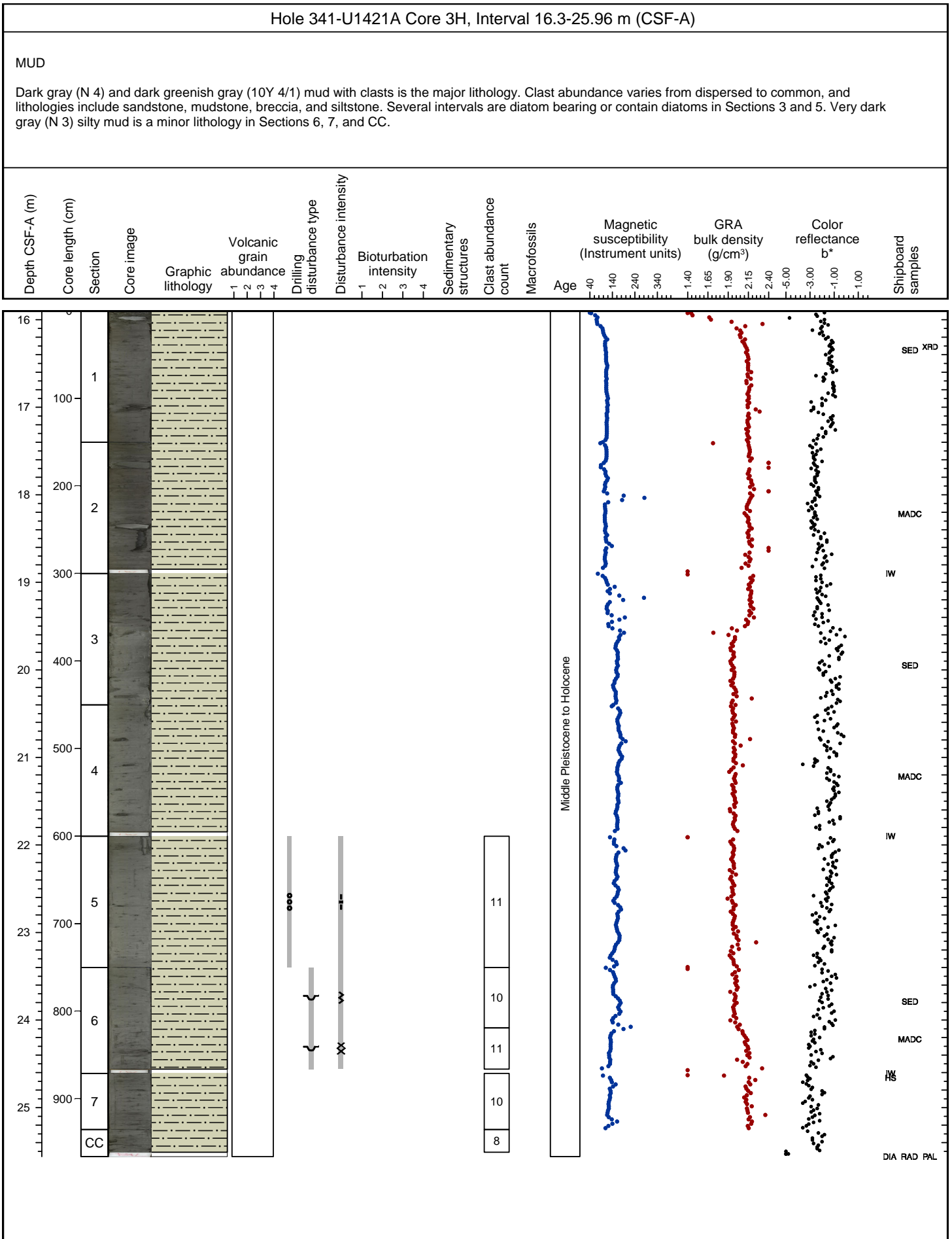


Hole 341-U1421A Core 2H, Interval 6.8-16.55 m (CSF-A)

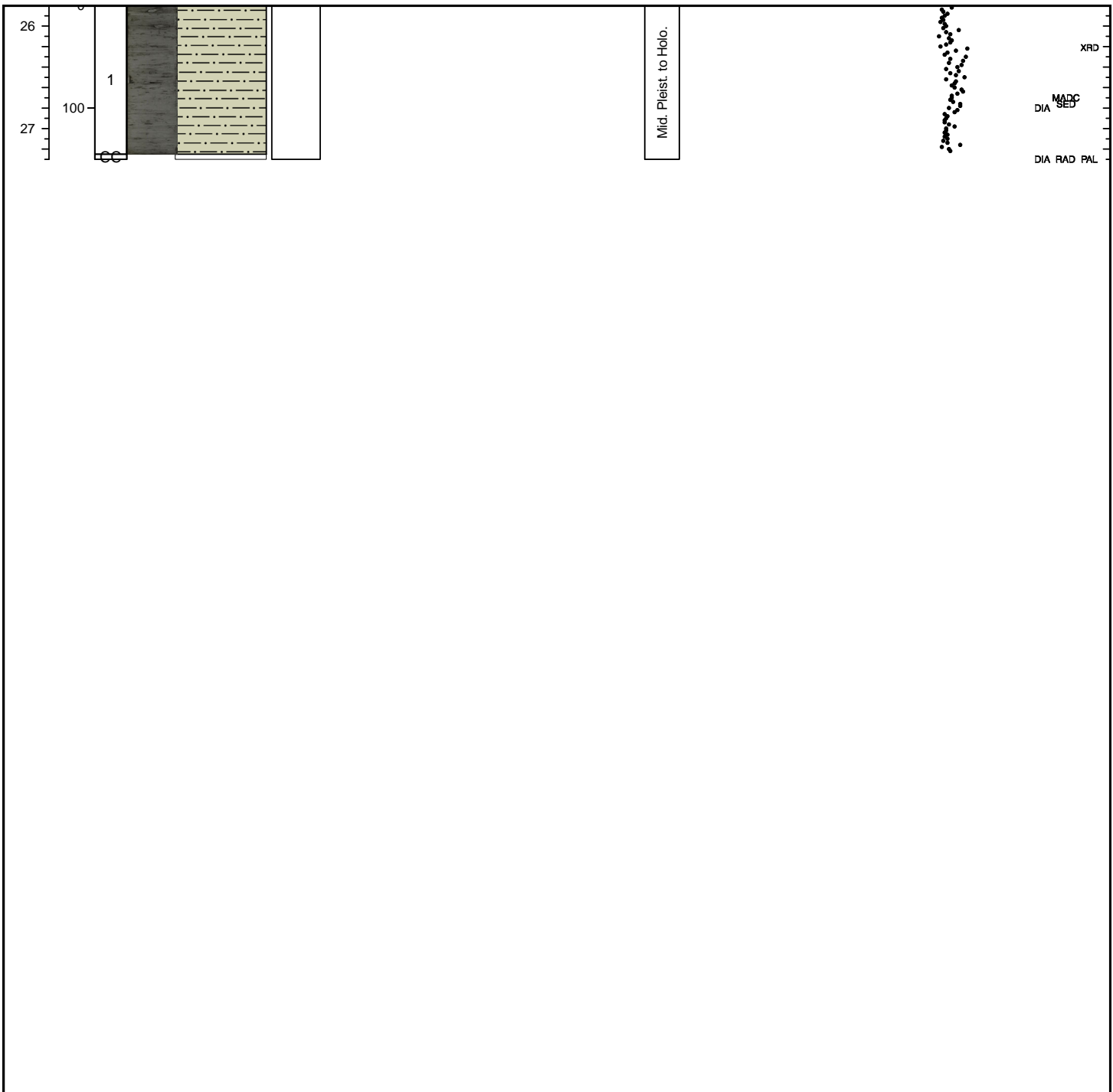
MUD

Very dark gray (N 3) silty mud with common clasts is the major lithology. Dark gray (N 4) mud with common clasts is also present in Sections 3, 4, and 5. Clasts are up to 3 cm diameter and lithologies include siltstone, sandstone, and argillite. Dark greenish gray (10Y 4/1) diatom bearing mud is present in Section 1. Shell fragments are present in Sections 2 and 5.





Hole 341-U1421A Core 4H, Interval 25.8-27.3 m (CSF-A)															
MUD															
Dark gray (N 4) silty mud with common clasts is the major lithology. Clast lithologies include sandstone and gneiss.															
Depth CSF-A (m)	Core length (cm)	Section	Core image	Graphic lithology	Volcanic grain abundance	Drilling disturbance type	Disturbance intensity	Bioturbation intensity	Sedimentary structures	Clast abundance count	Macrofossils	Magnetic susceptibility (Instrument units)	GRA bulk density (g/cm <sup>3</sup> )	Color reflectance b*	Shipboard samples
					1 2 3 4		1 2 3 4	1 2 3 4				Age 40 140 240 340	1.40 1.65 1.90 2.15 2.40	-5.00 -3.00 -1.00 1.00	

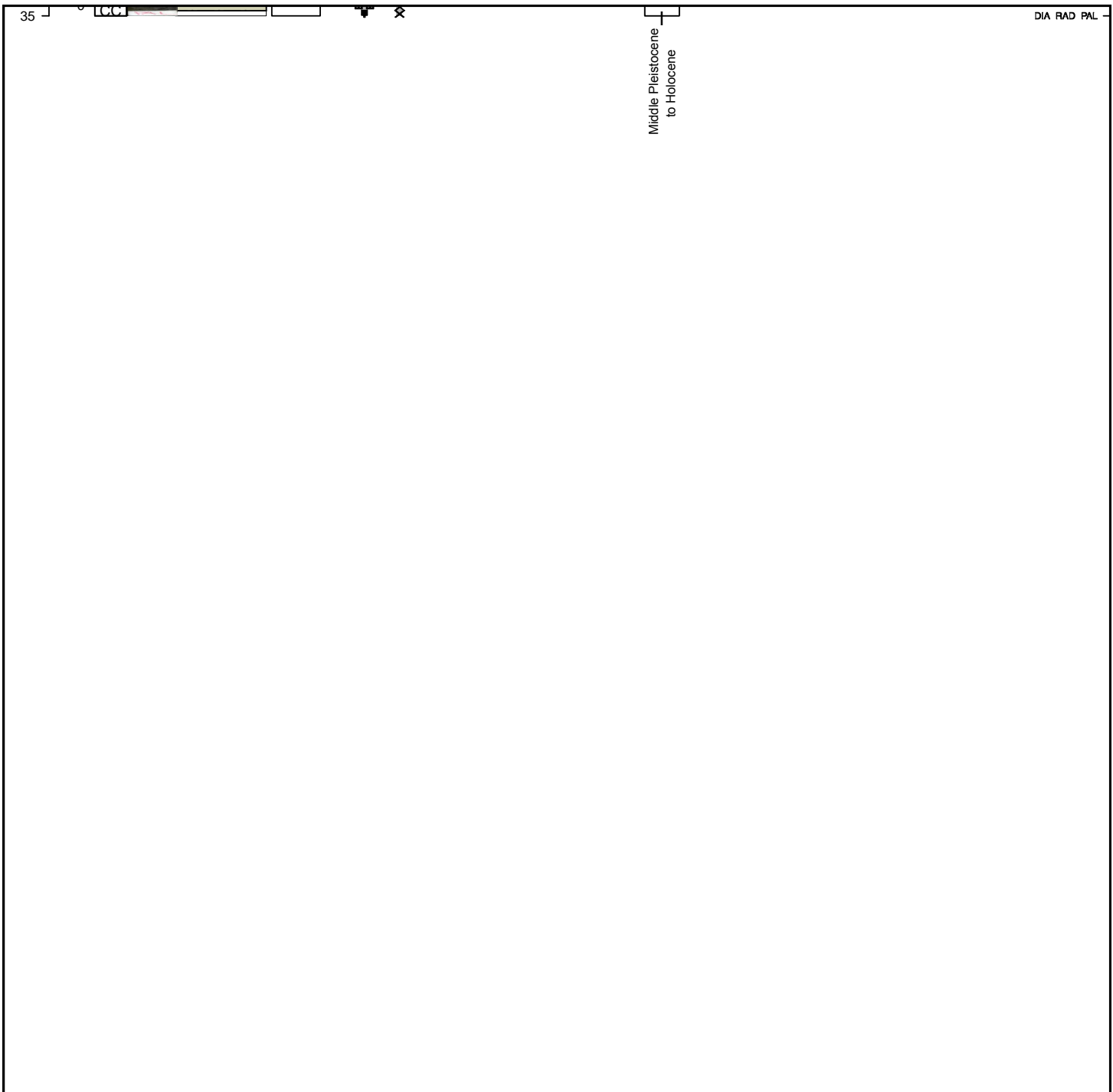


**Hole 341-U1421A Core 5H, Interval 35.3-35.4 m (CSF-A)**

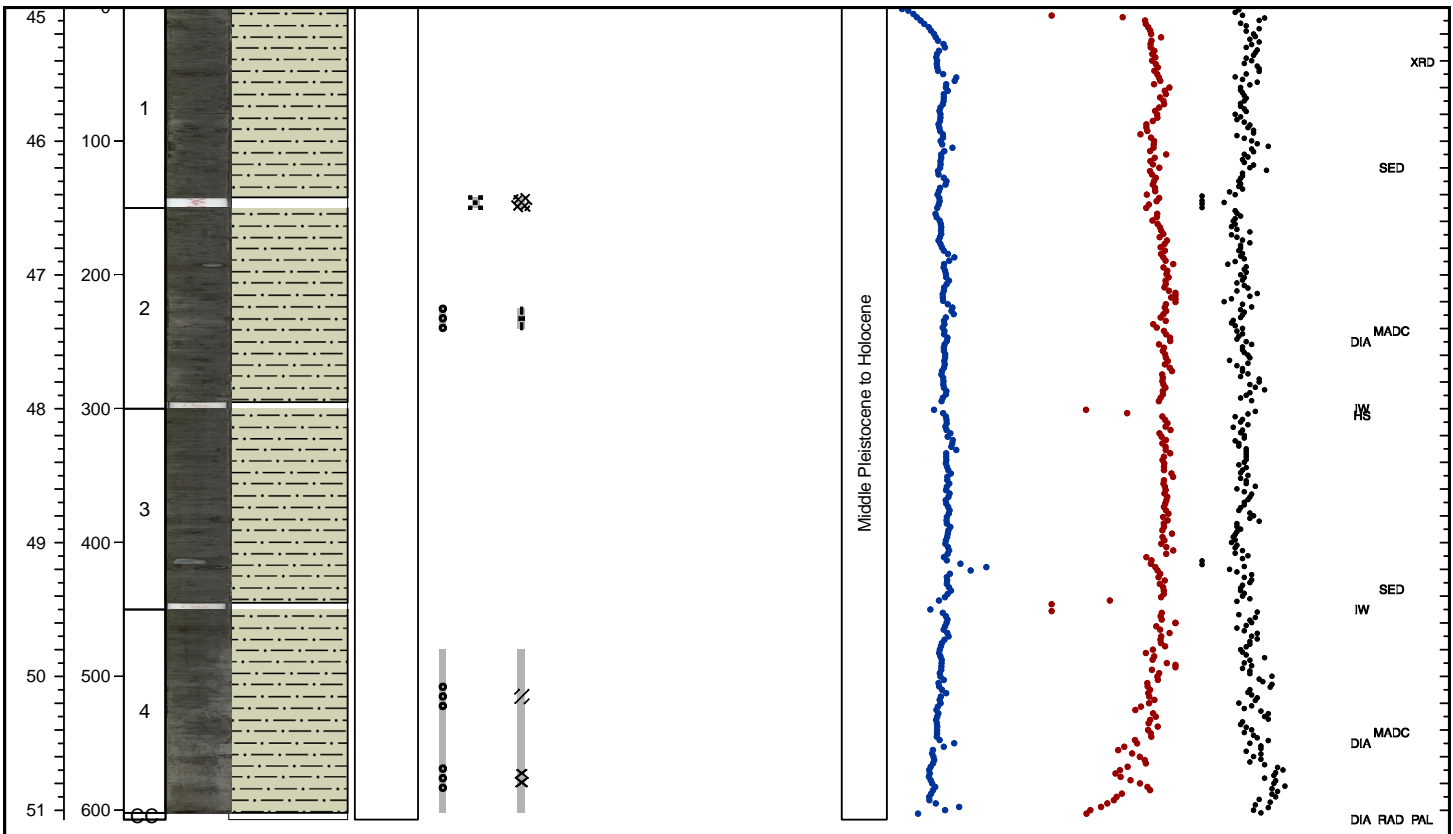
**MUD**

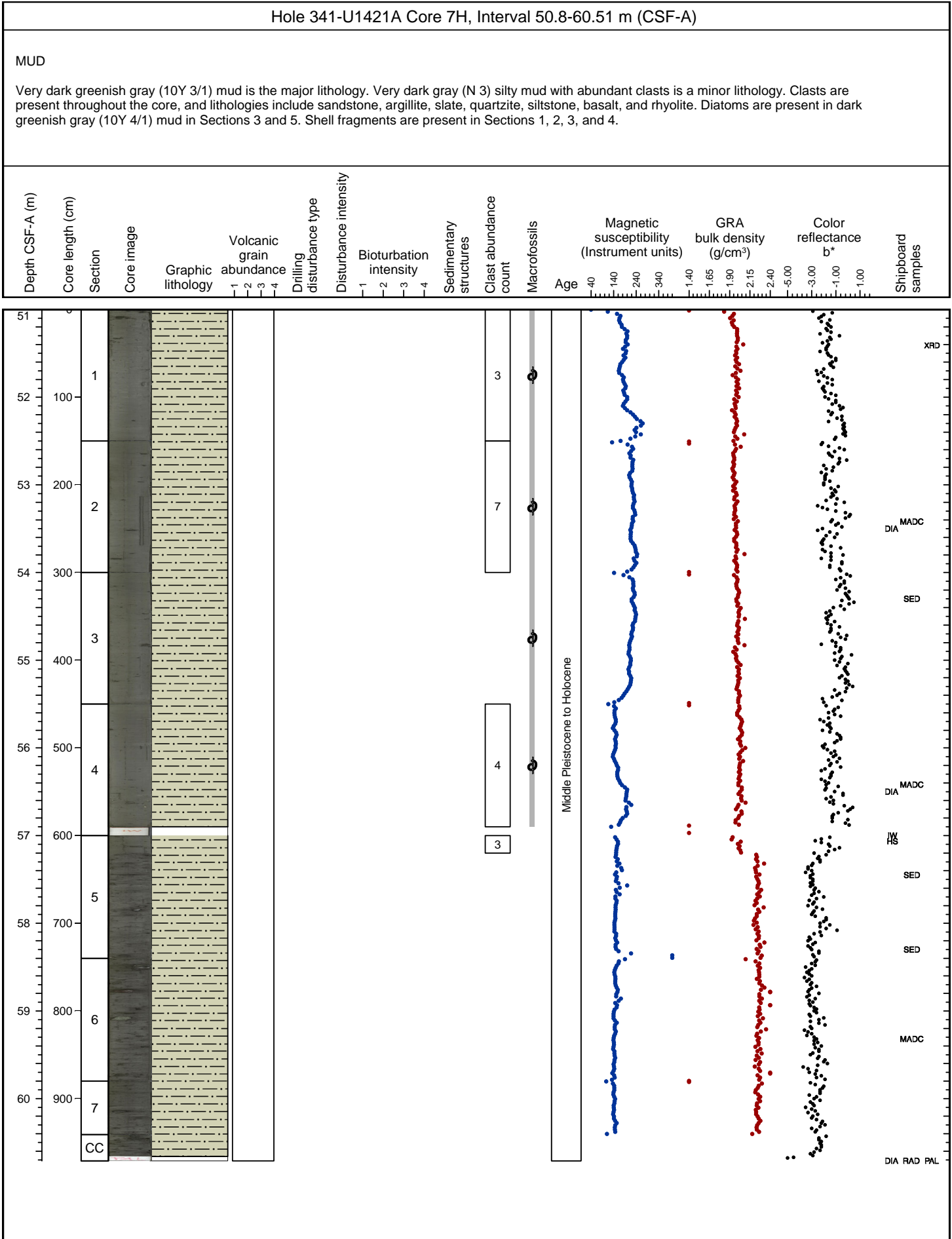
Dark gray (N 4) mud is the major lithology. Mousse-like core disturbance is high.

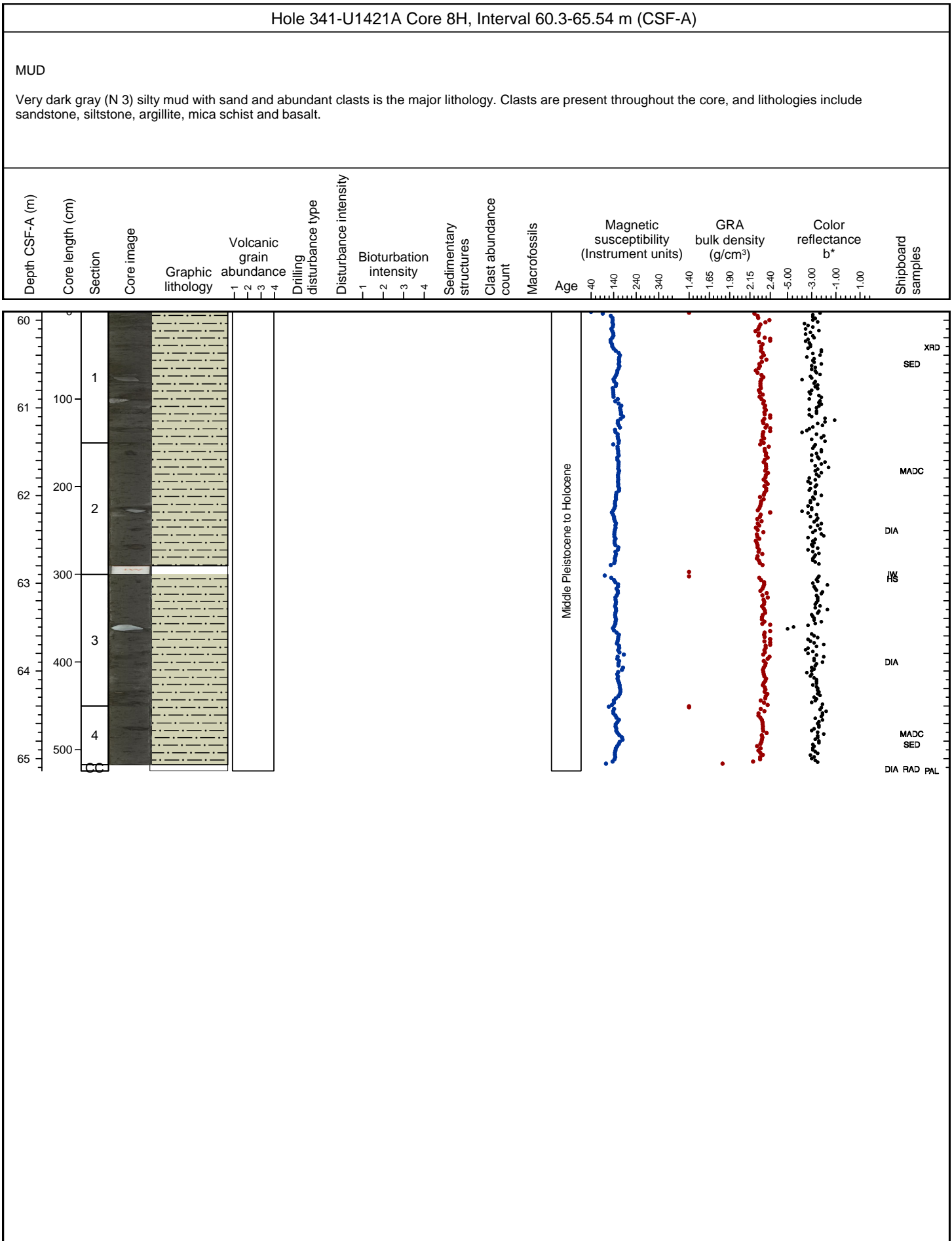
Depth CSF-A (m)	Core length (cm)	Section	Core image	Graphic lithology	Volcanic grain abundance	Drilling disturbance type	Disturbance intensity	Bioturbation intensity	Sedimentary structures	Clast abundance count	Macrofossils	Magnetic susceptibility (Instrument units)	GRA bulk density (g/cm <sup>3</sup> )	Color reflectance b*	Shipboard samples
					1 2 3 4		1 2 3 4	1 2 3 4				Age 40 140 240 340	1.40 1.65 1.90 2.15 2.40	-5.00 -3.00 -1.00 1.00	



Hole 341-U1421A Core 6H, Interval 44.8-50.87 m (CSF-A)															
MUD															
Very dark gray (N 3) silty mud with abundant clasts is the major lithology. Clast lithologies include sandstone, argillite, and mudstone. More clast lithologies are likely present, but obscured by core splitting with wire.															
Depth CSF-A (m)	Core length (cm)	Section	Core image	Graphic lithology	Volcanic grain abundance	Drilling disturbance type	Disturbance intensity	Bioturbation intensity	Sedimentary structures	Clast abundance count	Macrofossils	Magnetic susceptibility (Instrument units)	GRA bulk density (g/cm <sup>3</sup> )	Color reflectance b*	Shipboard samples
					1 2 3 4		1 2 3 4					Age 40 140 240 340	1.40 1.65 1.90 2.15 2.40	-5.00 -3.00 -1.00 1.00	





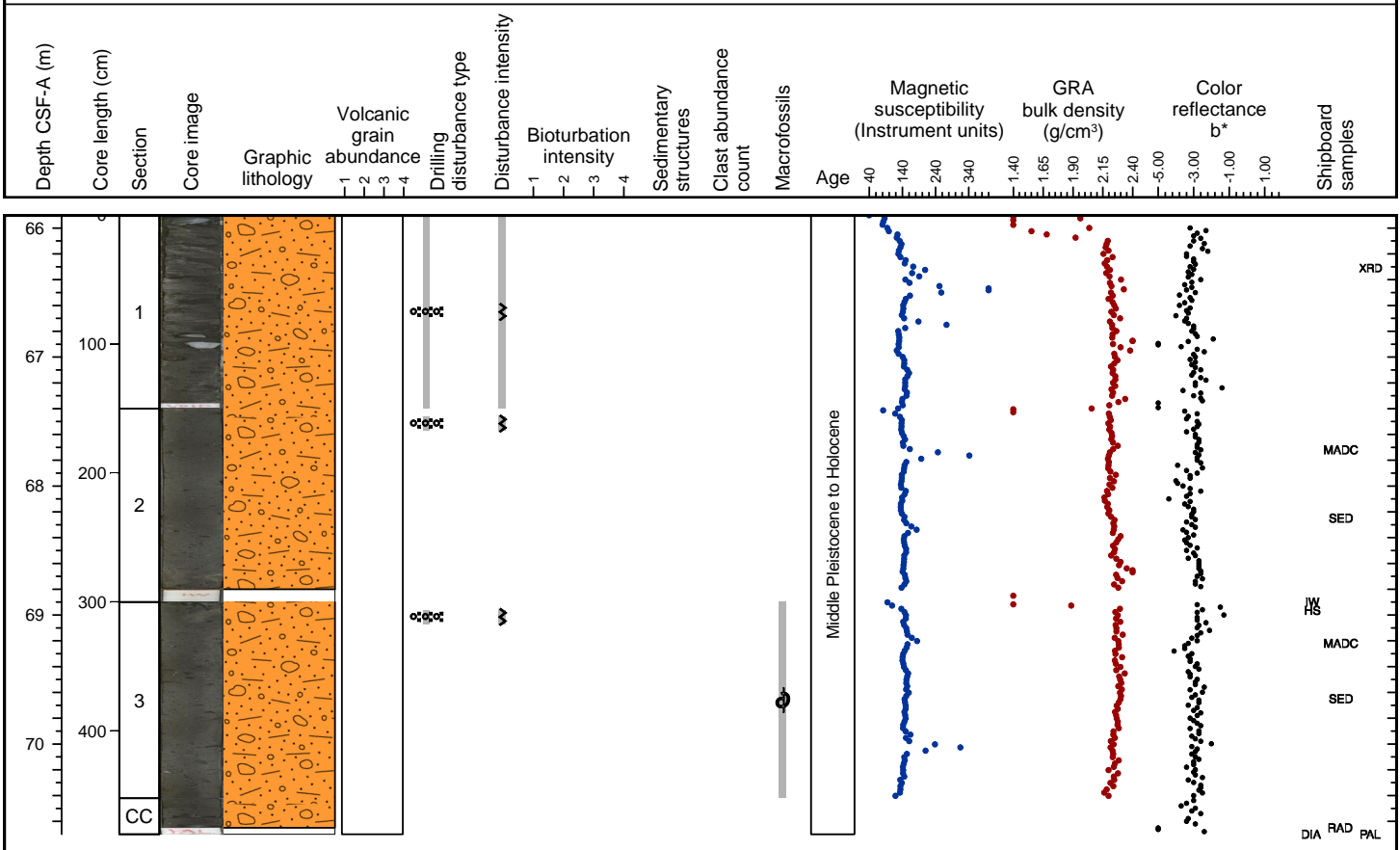


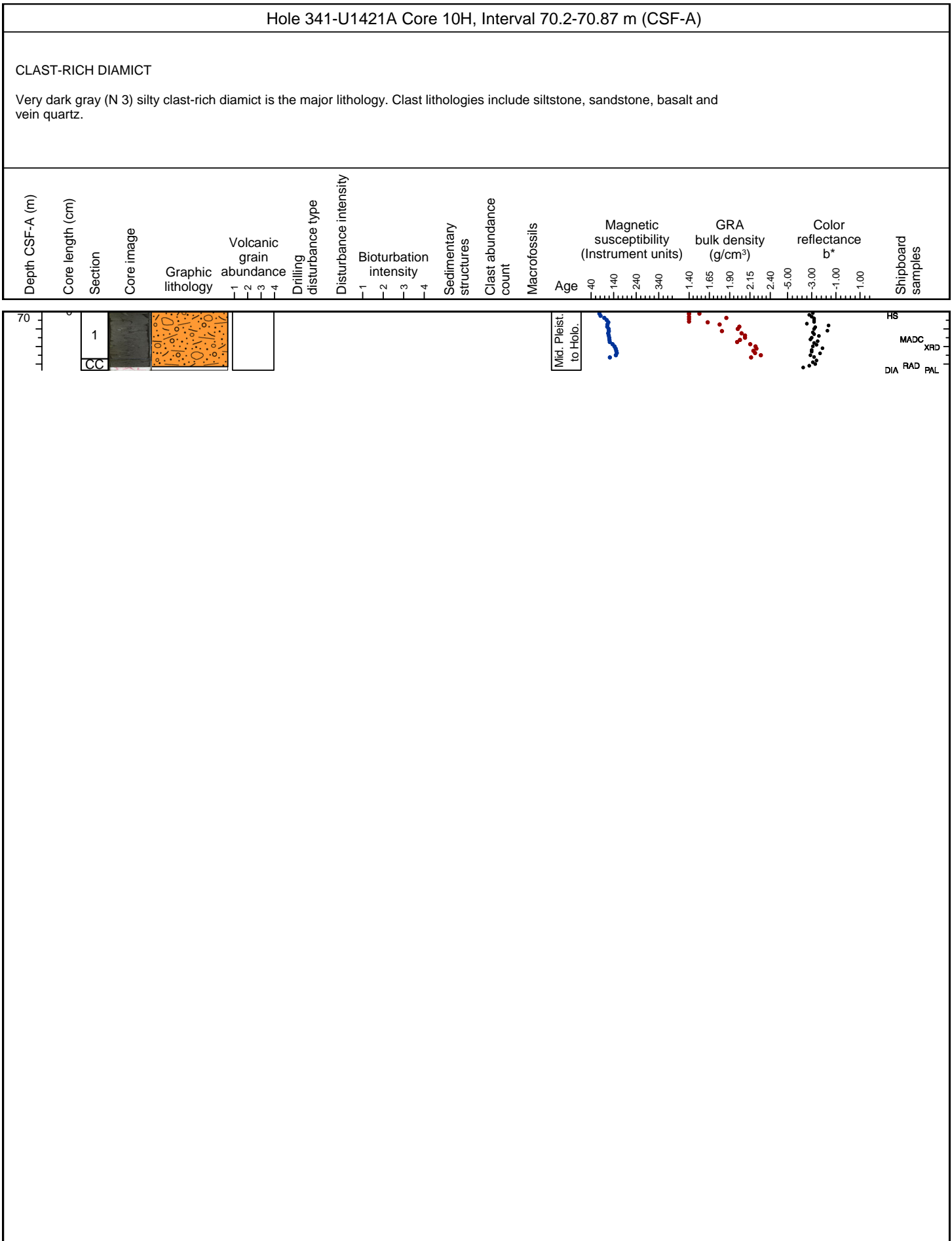


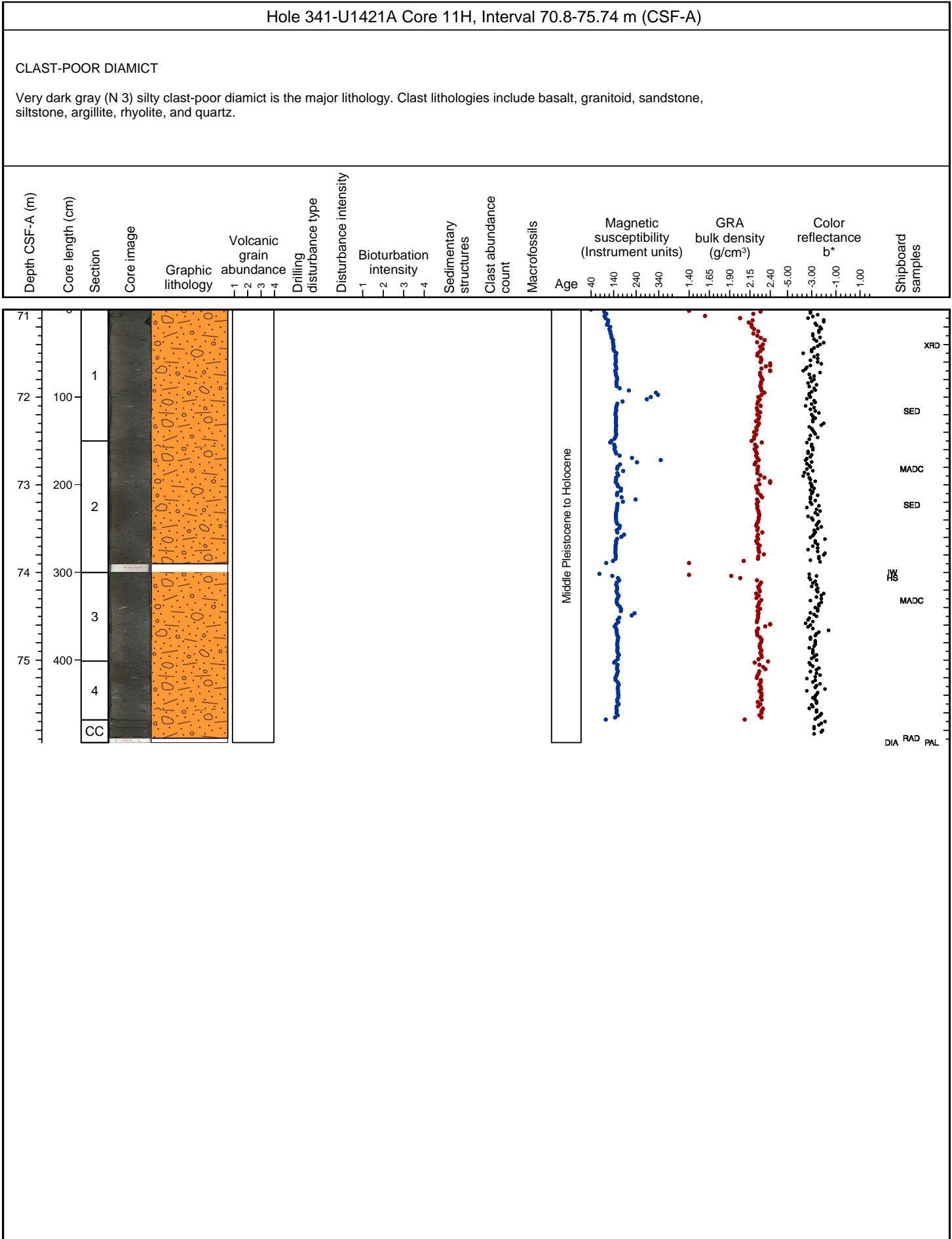
Hole 341-U1421A Core 9H, Interval 65.5-70.3 m (CSF-A)

CLAST-POOR DIAMICT

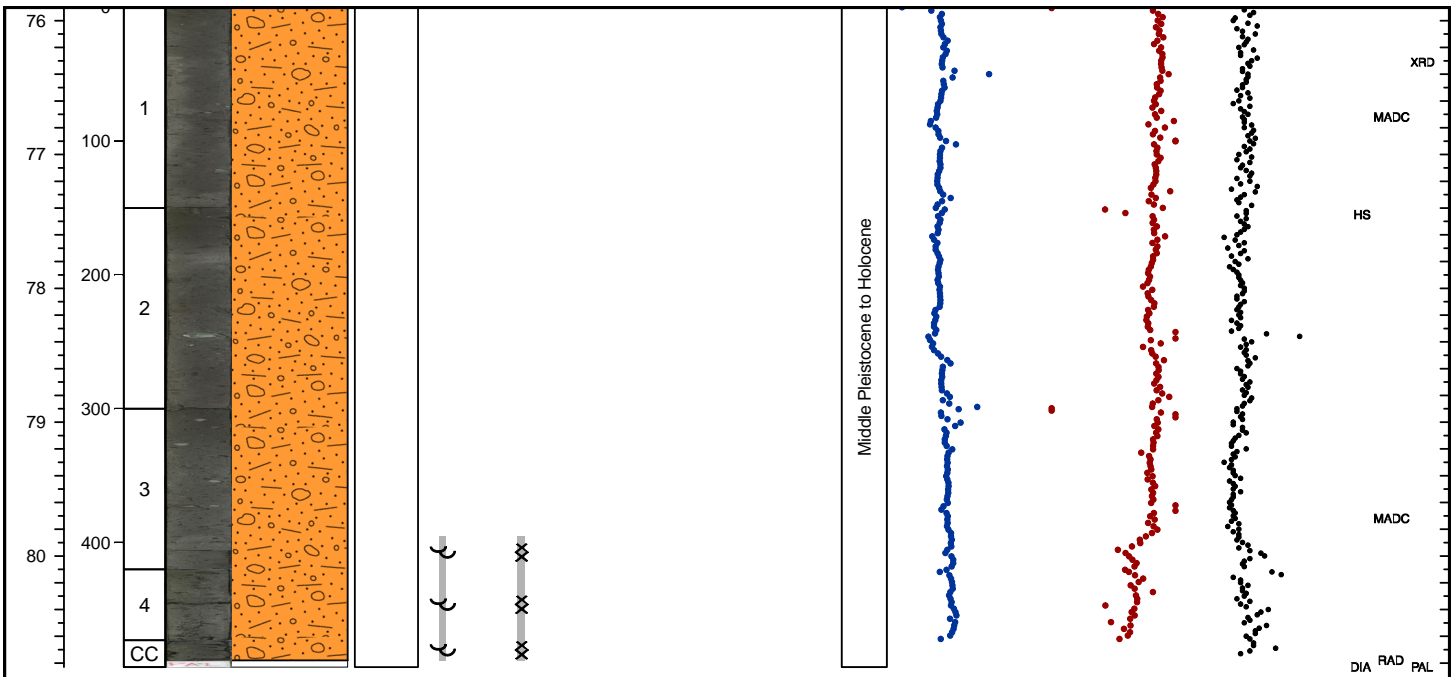
Very dark gray (N 3) silty clast-poor diamict is the major lithology. Clast lithologies include sandstone, mica schist, siltstone, basalt, chert, granite, metasandstone, and argillite. Section 1 was heavily disturbed during wire splitting. A shell fragment is present in Section 3.



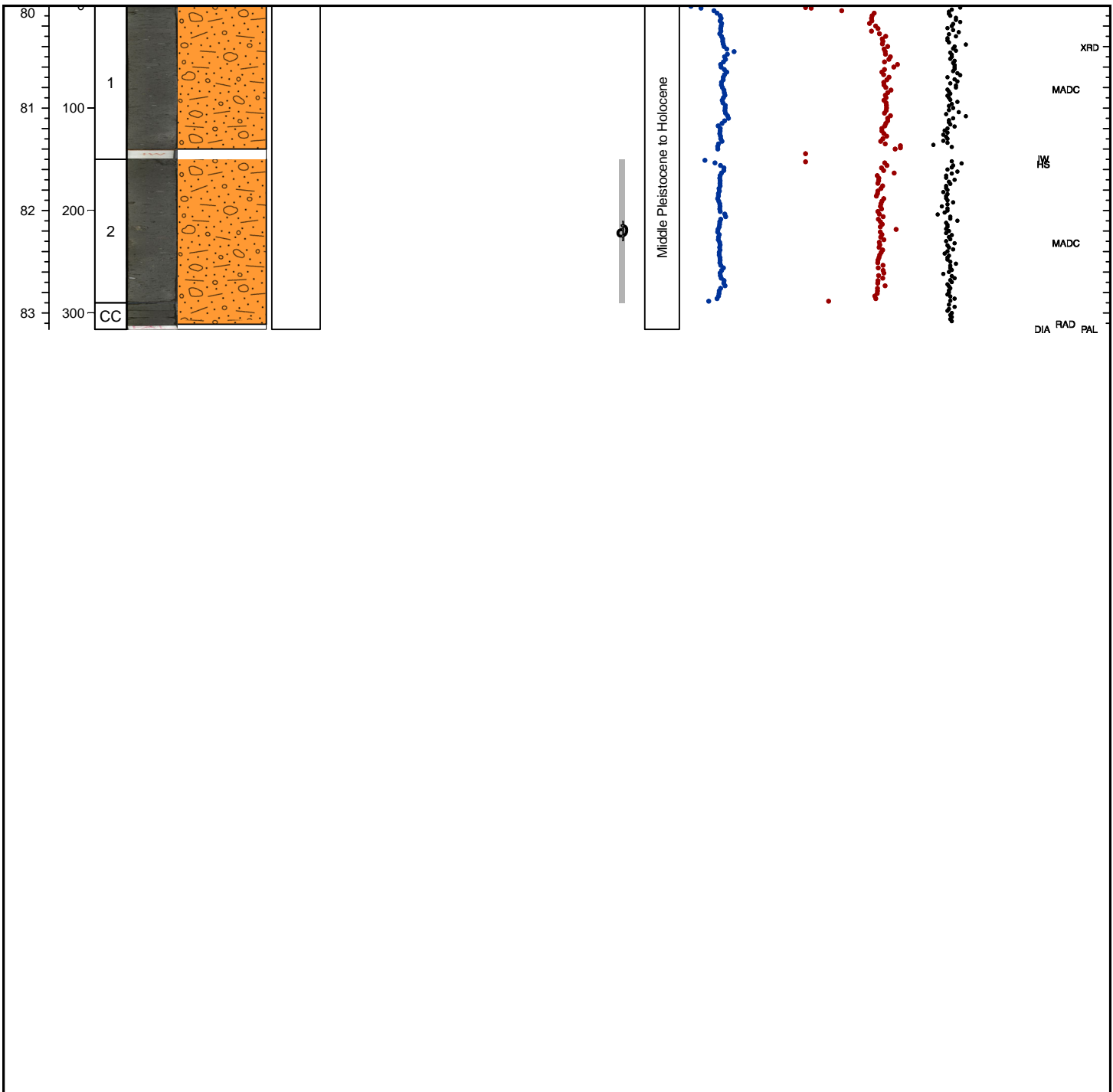


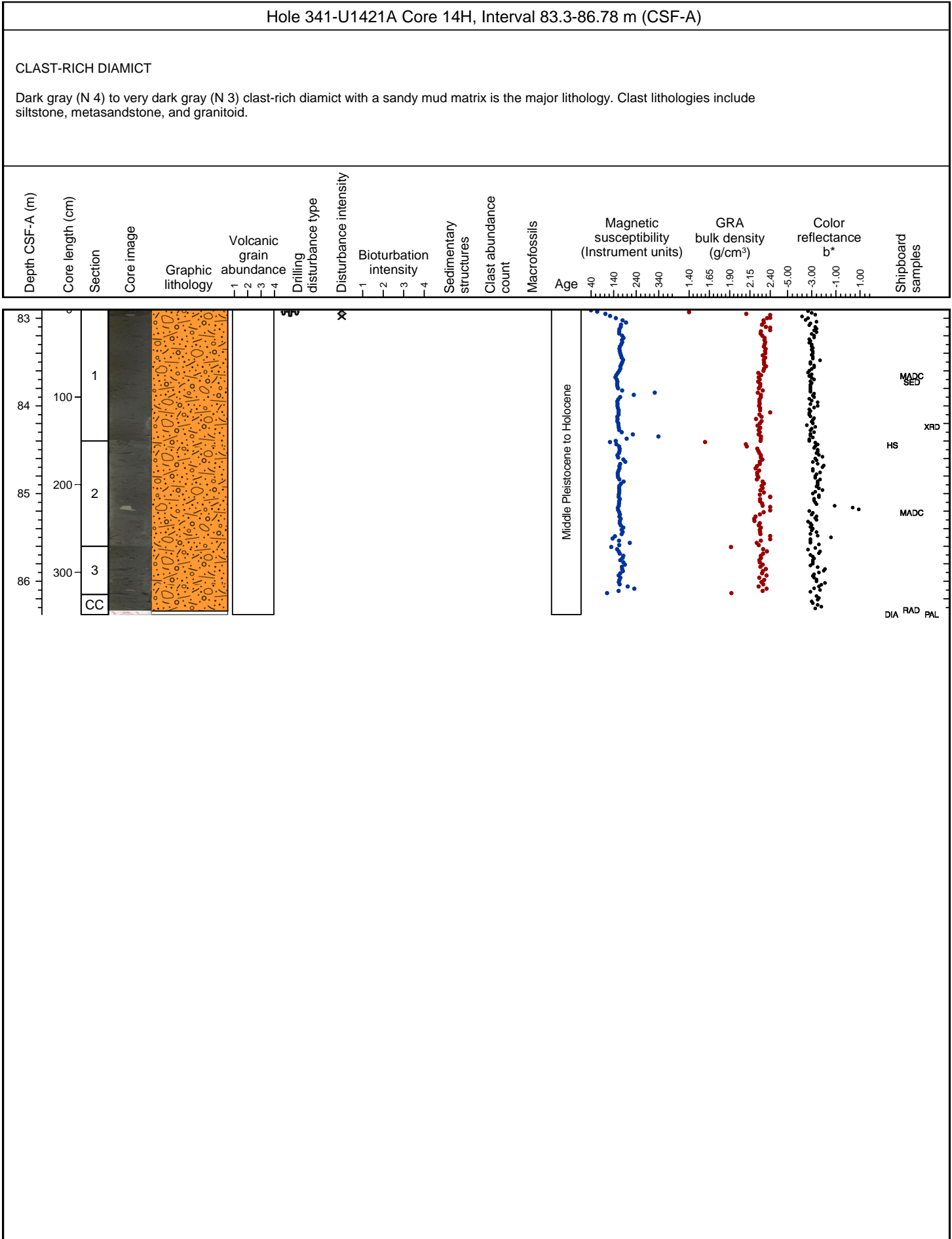


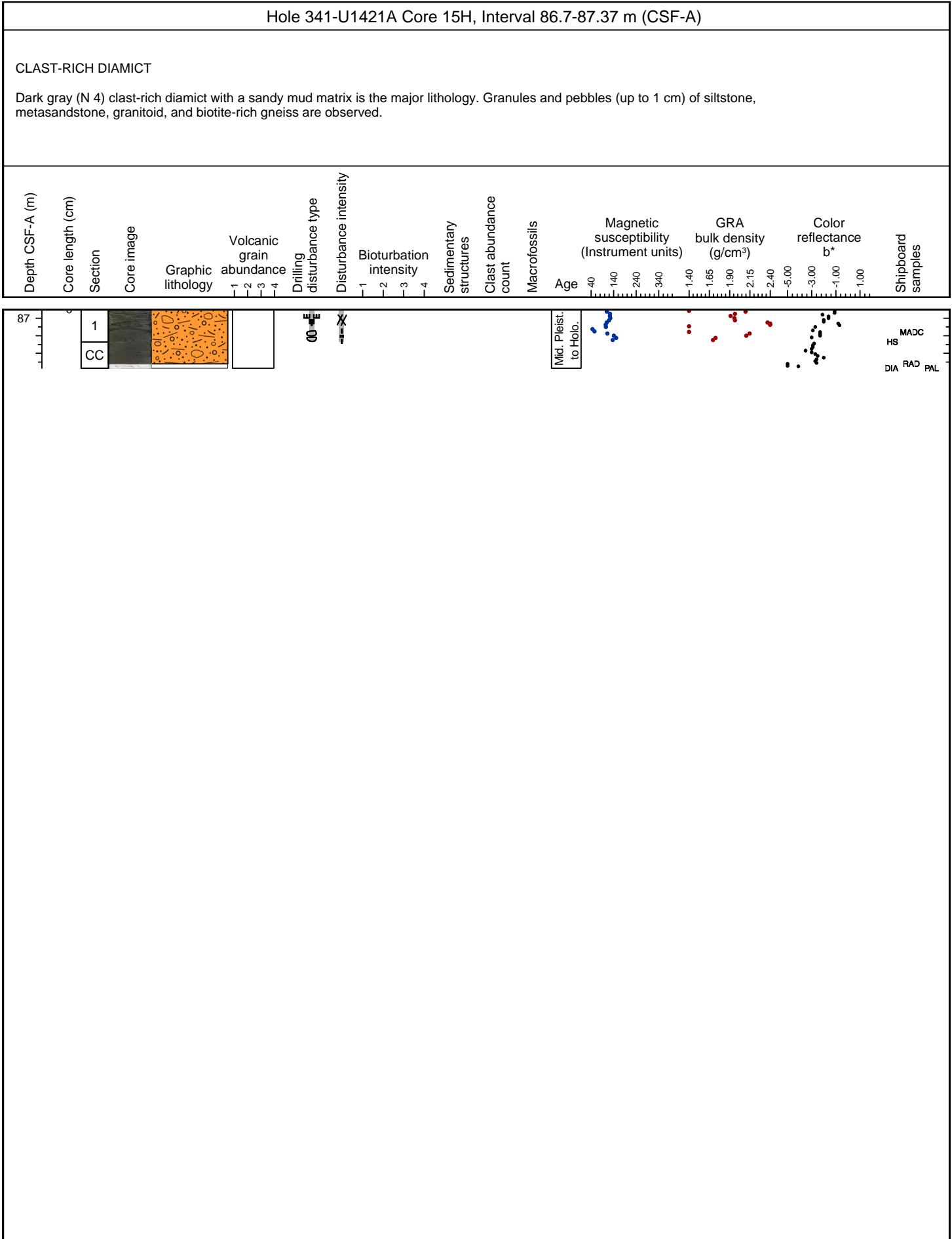
Hole 341-U1421A Core 12H, Interval 75.5-80.43 m (CSF-A)																						
CLAST-POOR DIAMICT																						
Very dark gray (N 3) silty clast-poor diamict is the major lithology. Clast lithologies include basalt, granite, sandstone, siltstone, argillite, mica schist and vein quartz. Suck-in is high at the bottom of Section 3, and in Sections 4 and CC.																						
Depth CSF-A (m)	Core length (cm)	Section	Core image	Graphic lithology	Volcanic grain abundance	Drilling disturbance type	Disturbance intensity	Bioturbation intensity	Sedimentary structures	Clast abundance count	Macrofossils	Magnetic susceptibility (Instrument units)	GRA bulk density (g/cm <sup>3</sup> )	Color reflectance b*	Shipboard samples							
					1			1				Age	1.40	1.65	1.90	2.15	2.40	-5.00	-3.00	-1.00	1.00	

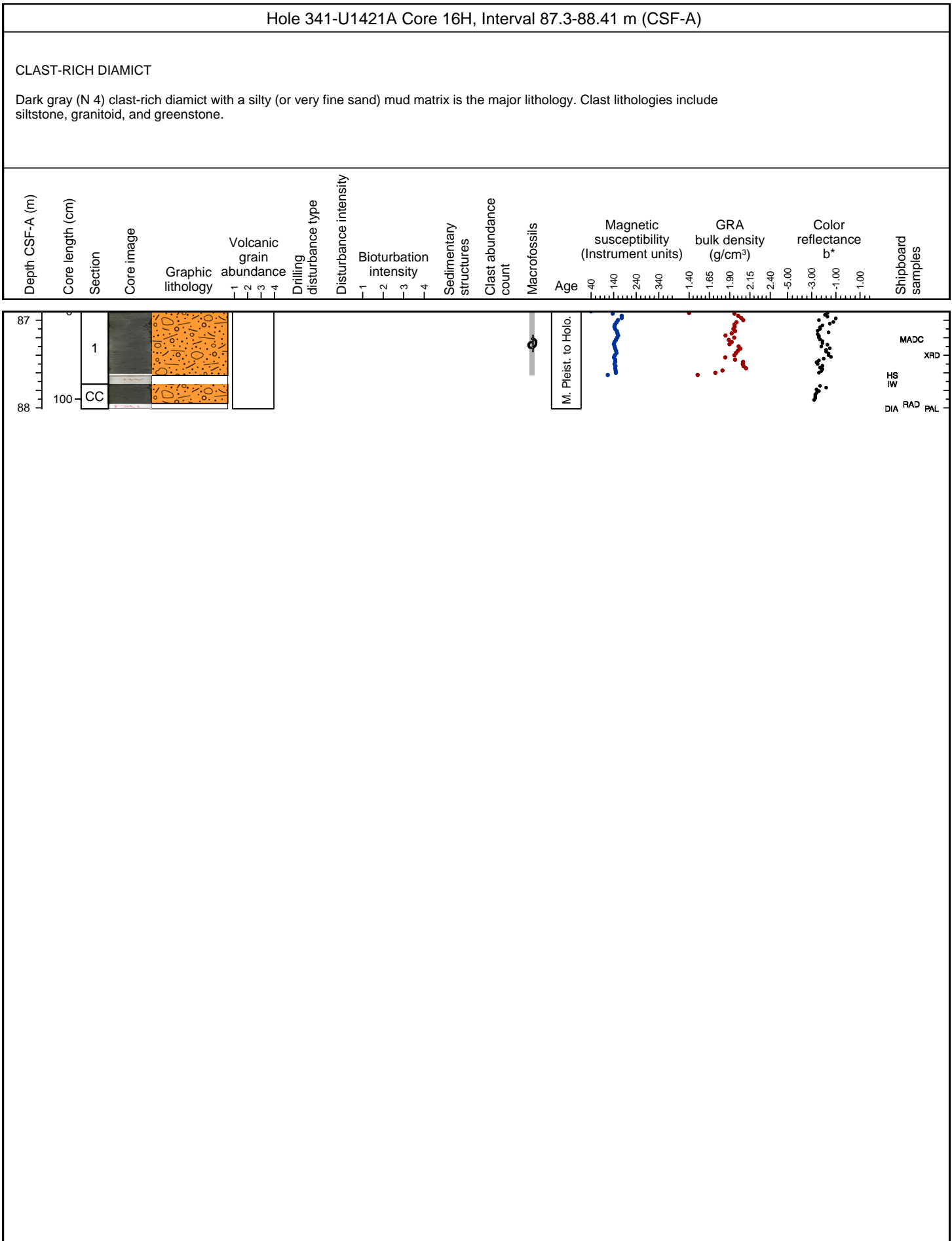


Hole 341-U1421A Core 13H, Interval 80.2-83.36 m (CSF-A)															
CLAST-POOR DIAMICT															
Very dark gray (N 3) silty clast-poor diamict is the major lithology. Clast lithologies include basalt, siltstone, sandstone, metasandstone, gneiss, argillite, and granitoid.															
Depth CSF-A (m)	Core length (cm)	Section	Core image	Graphic lithology	Volcanic grain abundance	Drilling disturbance type	Disturbance intensity	Bioturbation intensity	Sedimentary structures	Clast abundance count	Macrofossils	Magnetic susceptibility (Instrument units)	GRA bulk density (g/cm <sup>3</sup> )	Color reflectance b*	Shipboard samples
					1 2 3 4			1 2 3 4				Age 40 140 240 340	1.40 1.65 1.90 2.15 2.40	-5.00 -3.00 -1.00 1.00	







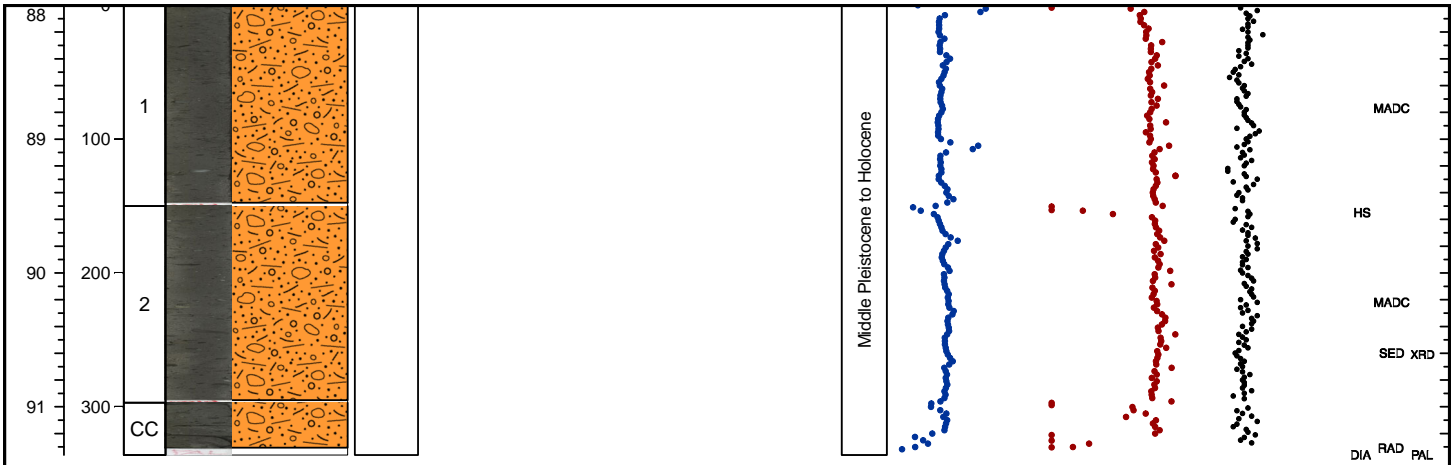
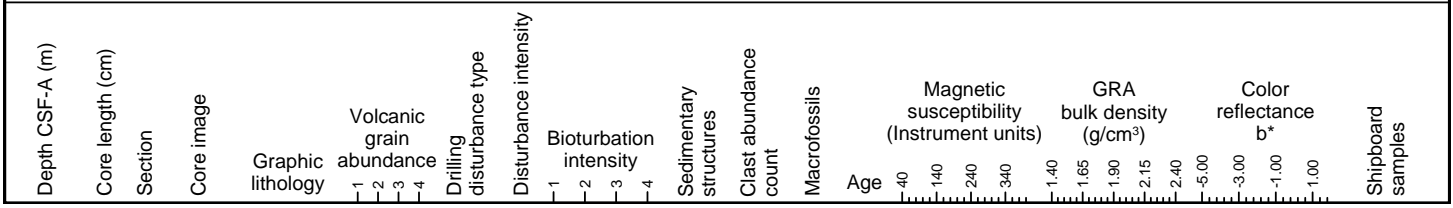




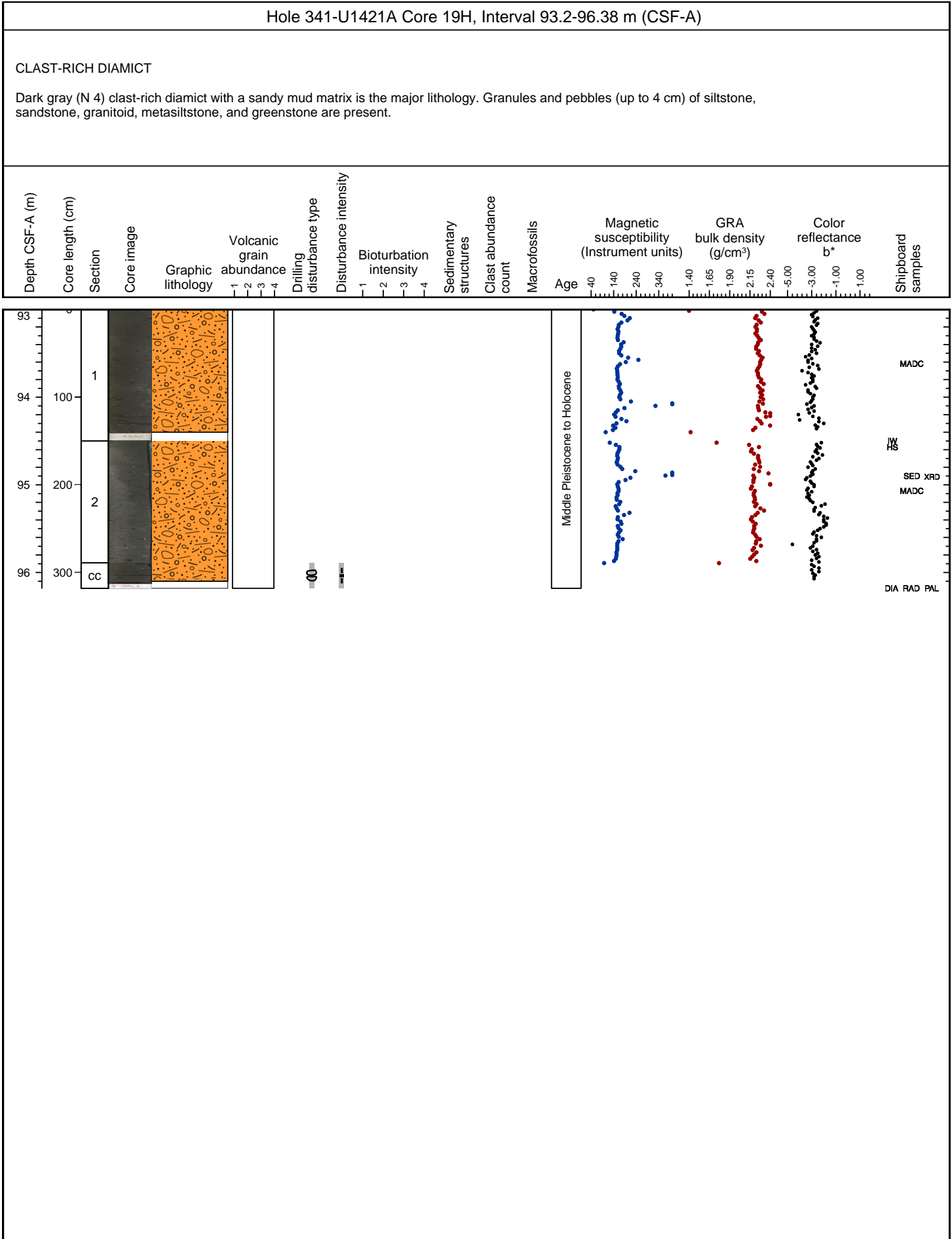
Hole 341-U1421A Core 17H, Interval 88.4-91.76 m (CSF-A)

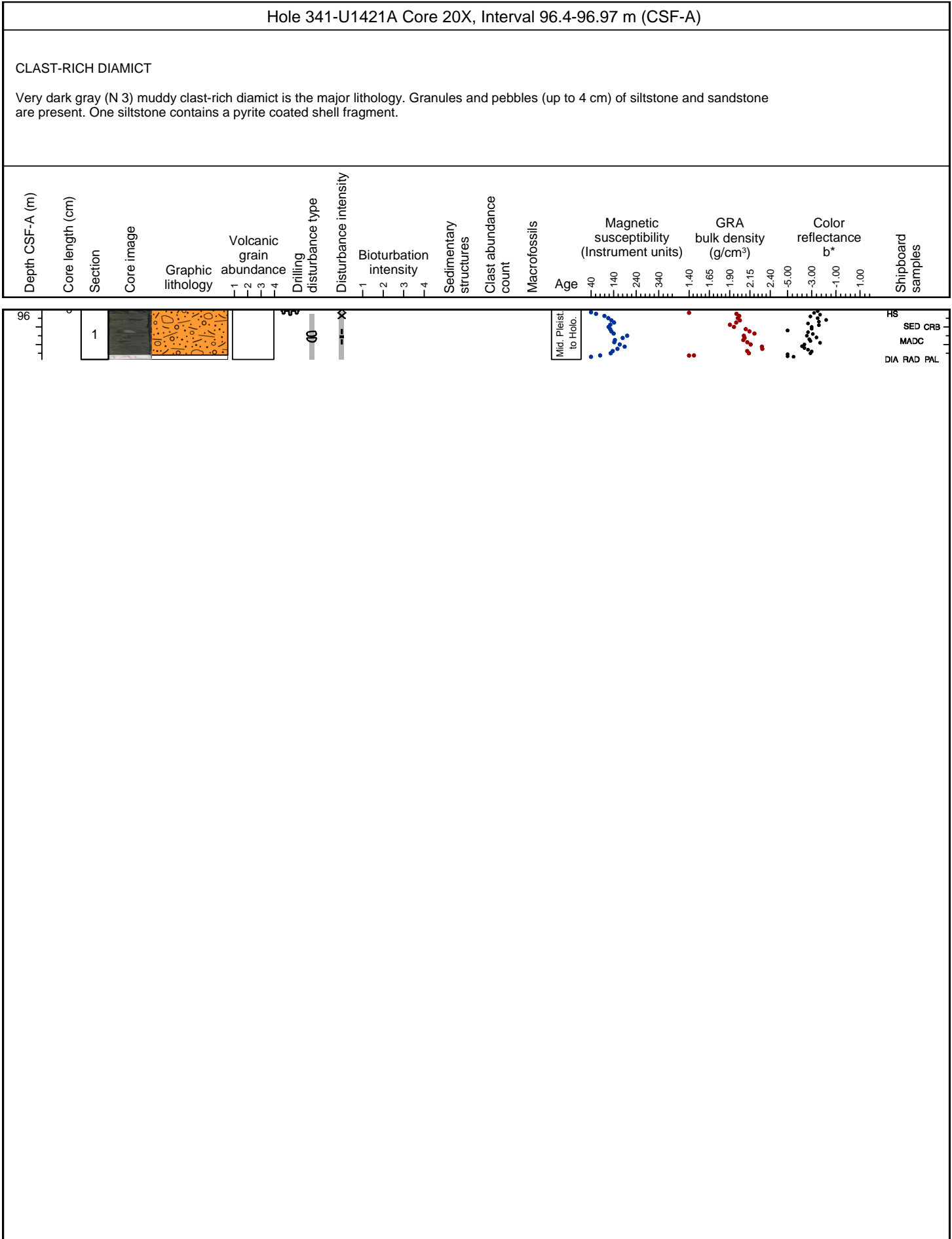
CLAST-RICH DIAMICT

Very dark gray (N 3) clast-poor diamict with a sandy mud matrix is the major lithology. Clast lithologies include basalt, siltstone, sandstone, metasandstone, gneiss, argillite, rhyolite, vein quartz and granitoid.



U1421A-18H TO PALEO

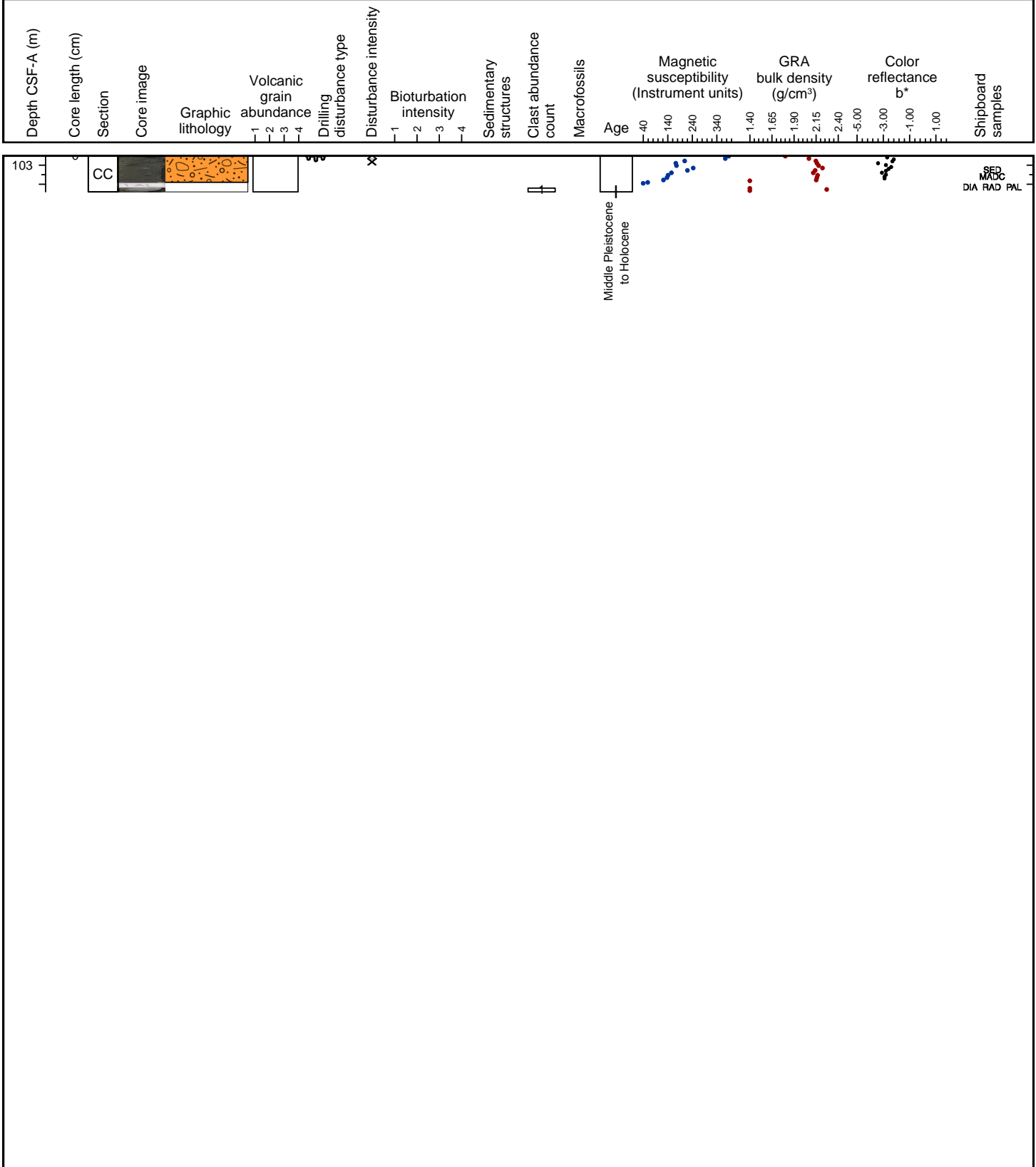




Hole 341-U1421A Core 21X, Interval 102.9-103.28 m (CSF-A)

CLAST-RICH DIAMICT, MINOR LITHOLOGY NOT RECOVERED

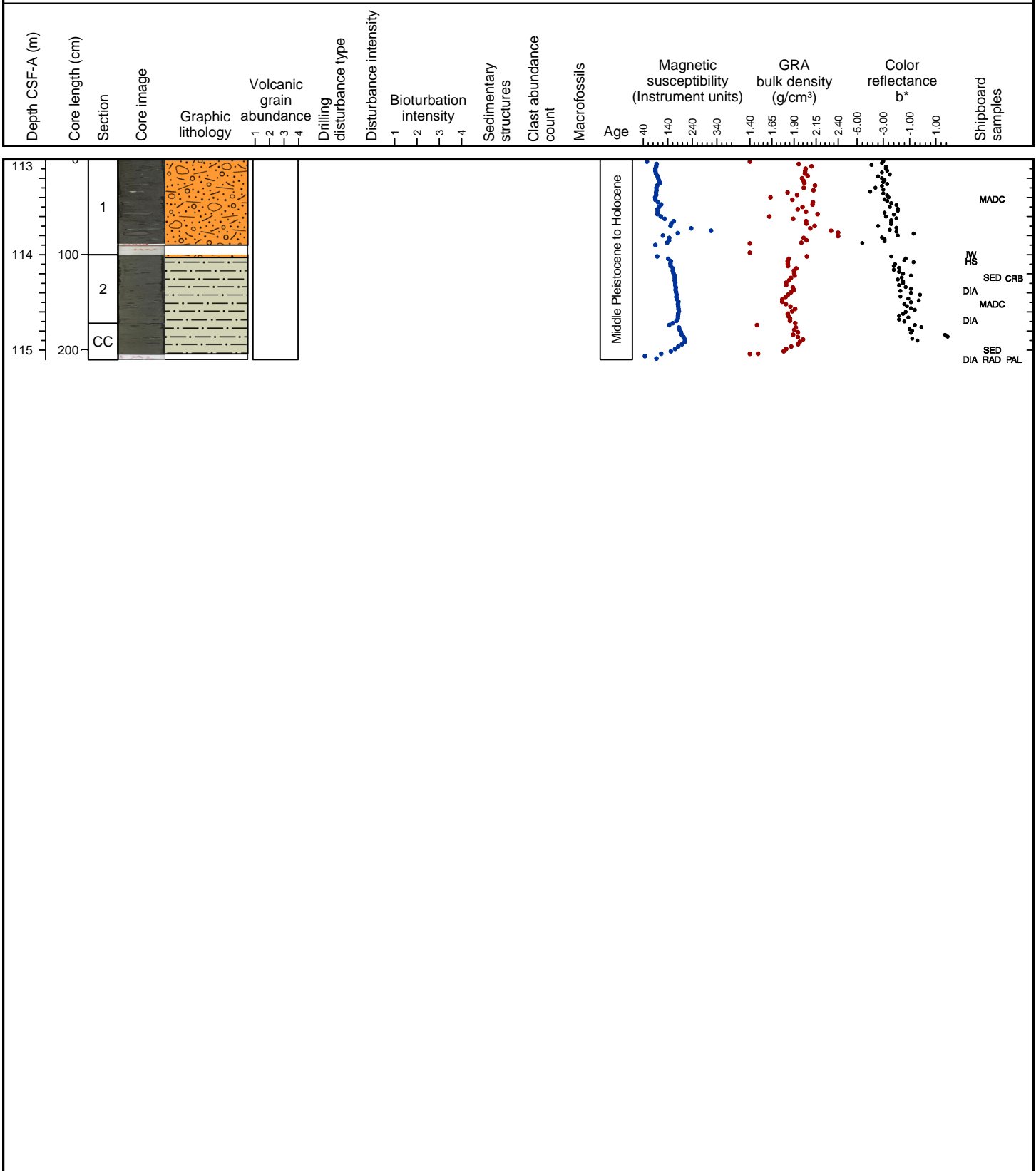
Very dark gray (N 3) clast-rich diamict with a muddy matrix is the major lithology. Clast lithologies include siltstone, greenstone, and granitoid. Primary lithology was not recovered below the PAL sample.



Hole 341-U1421A Core 22X, Interval 112.6-114.7 m (CSF-A)

CLAST-RICH DIAMICT, MUD

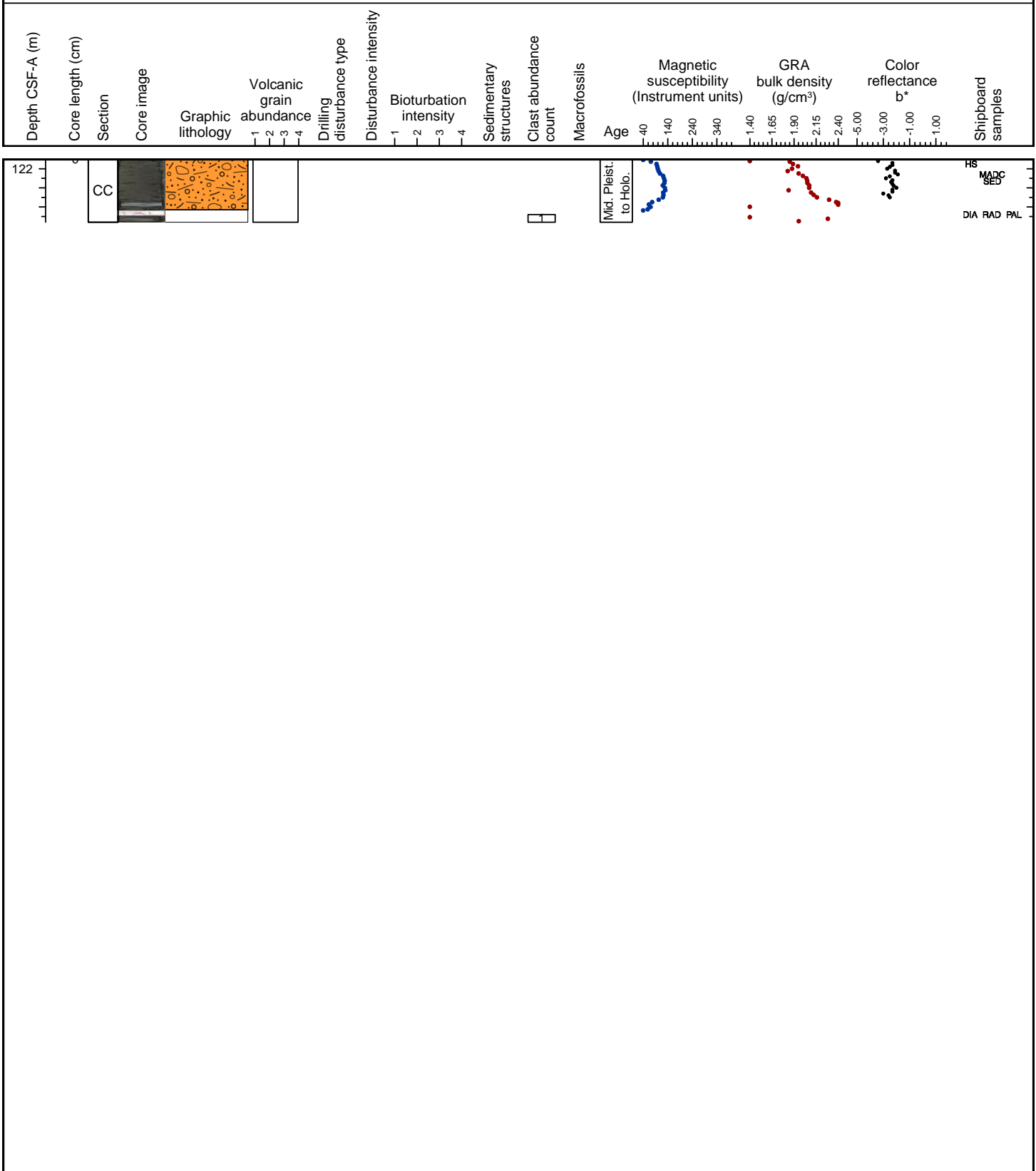
Dark gray (N 4), muddy clast-rich diamict is the major lithology. Granules and pebbles (up to 5 cm) of siltstone, metasiltstone, metasandstone, and granitoids are present. Dark greenish gray (10Y 4/1), clayey mud with biosilica and biosiliceous bearing mud are minor lithologies. Siltstone and granitoid pebbles and coarse lithic grains are abundant in these intervals.



Hole 341-U1421A Core 23X, Interval 122.3-122.96 m (CSF-A)

CLAST-RICH DIAMICT, MINOR LITHOLOGY NOT RECOVERED

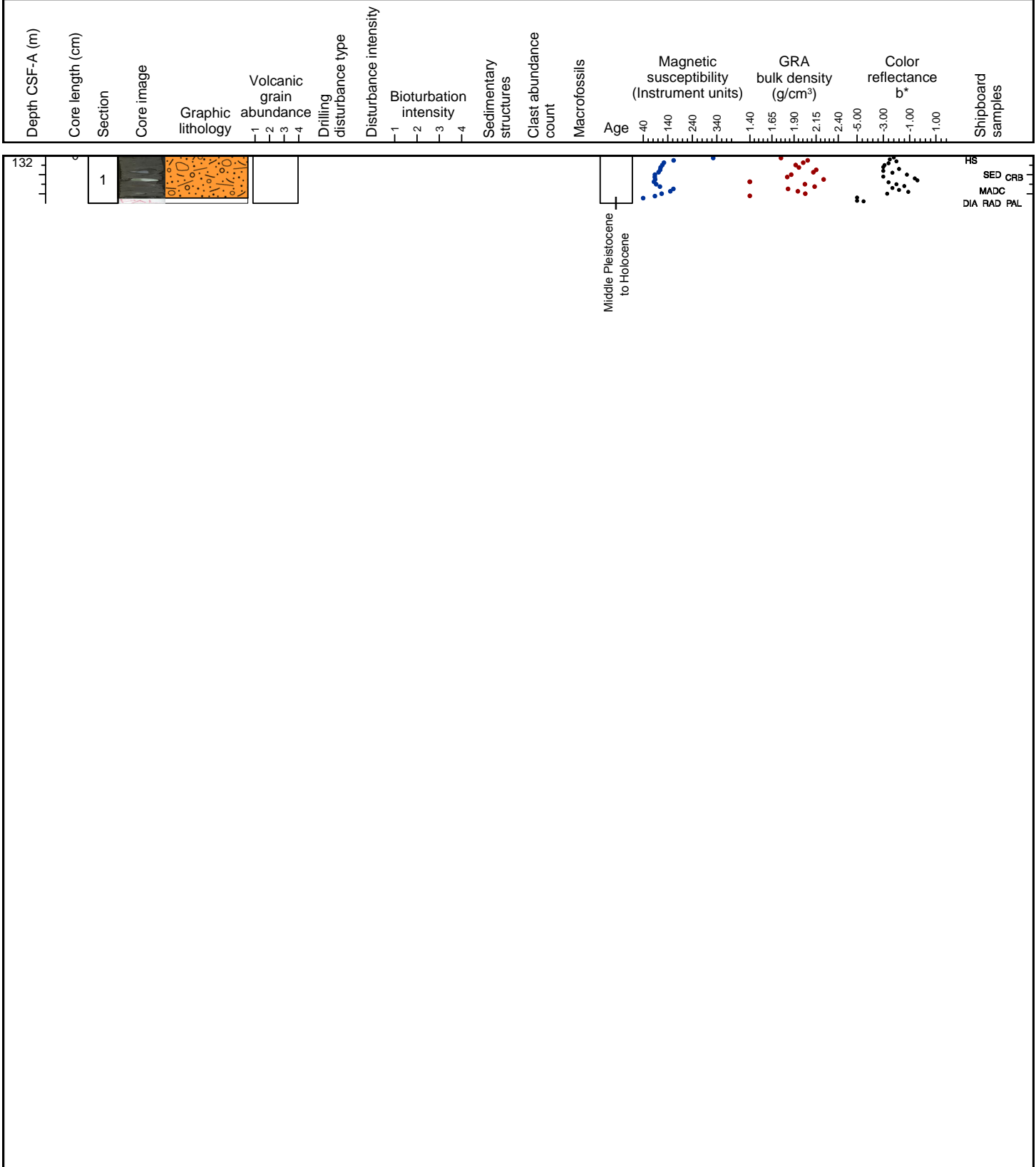
Dark gray (N 4) clast-rich diamict with a muddy matrix (with some sand) is the major lithology. Few granules and more pebbles (up to 2 cm) of siltstone and greenstone are observed. The core contains drilled clasts (up to 6 cm) of silt- or very fine sandstone. Primary lithology was not recovered below the PAL sample.



Hole 341-U1421A Core 24X, Interval 132.0-132.5 m (CSF-A)

CLAST-RICH DIAMICT

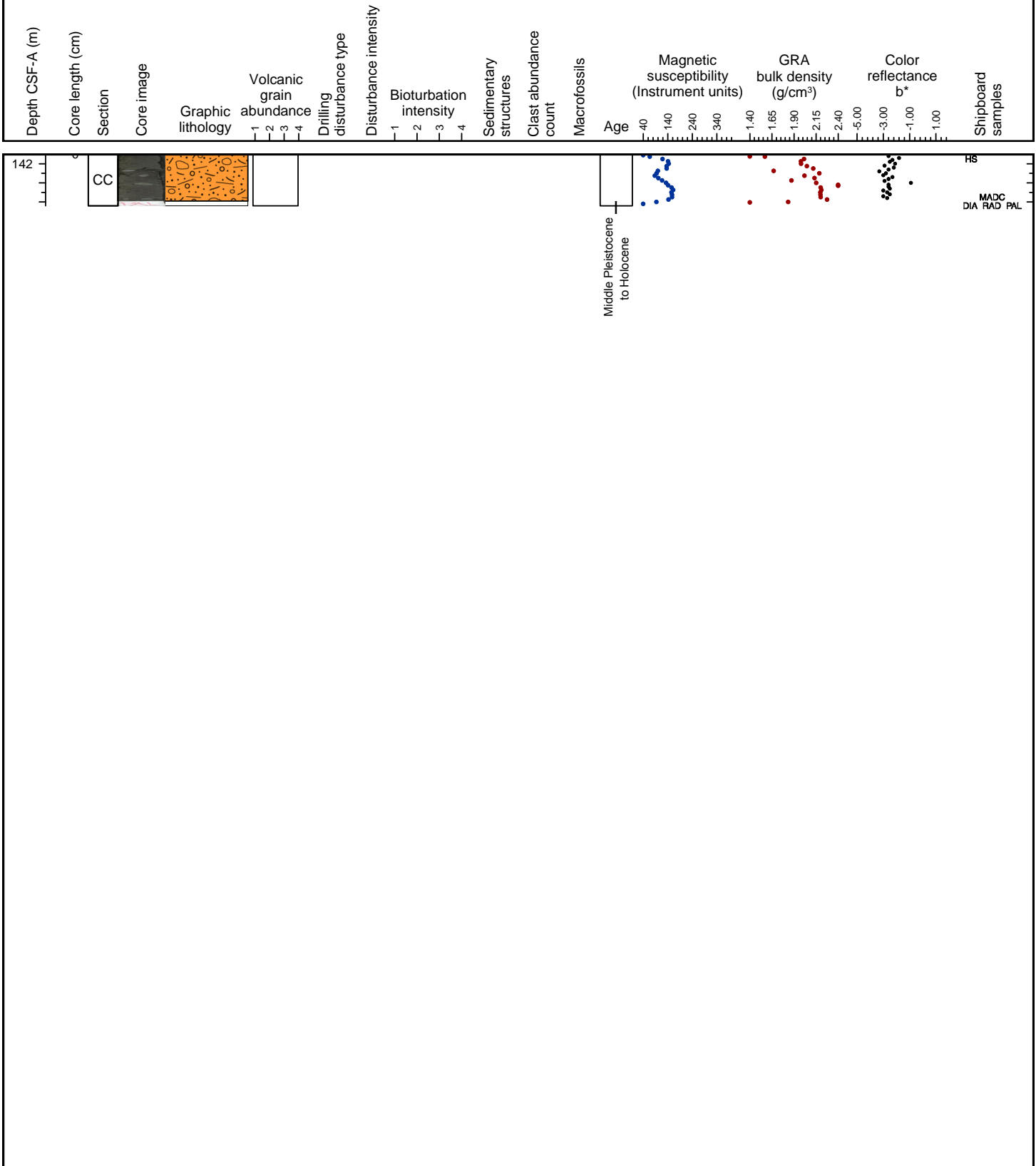
Very dark gray (N 3) clast-rich diamict with a muddy matrix is the major lithology. Granules and pebbles include basalt, siltstone, argillite, sandstone and metasiltstone.



Hole 341-U1421A Core 25X, Interval 141.7-142.24 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 include basalt, greenstone, sandstone, argillite, siltstone, mudstone, vein quartz.

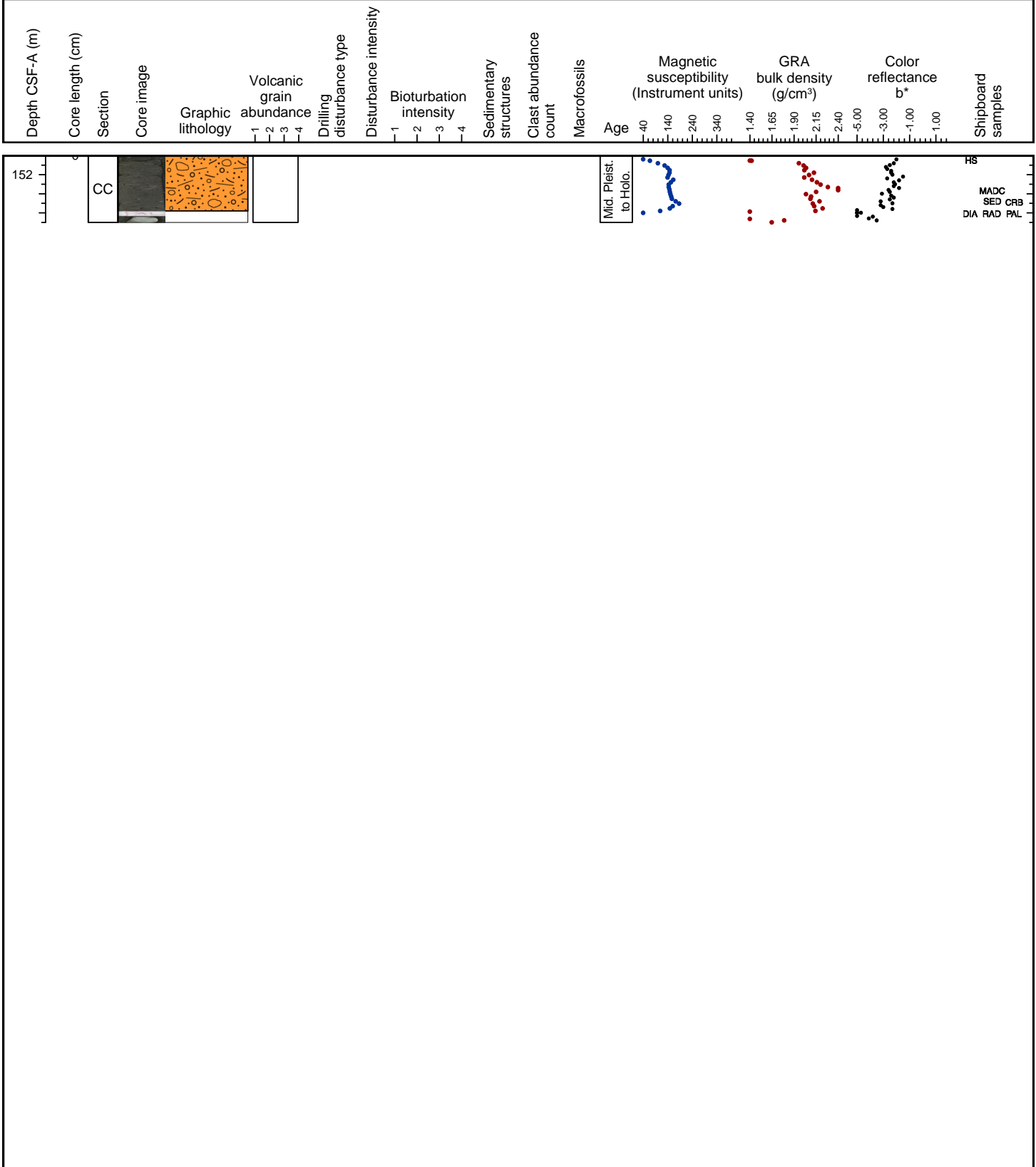




Hole 341-U1421A Core 26X, Interval 151.4-152.1 m (CSF-A)

CLAST-RICH DIAMICT, MINOR LITHOLOGY NOT RECOVERED

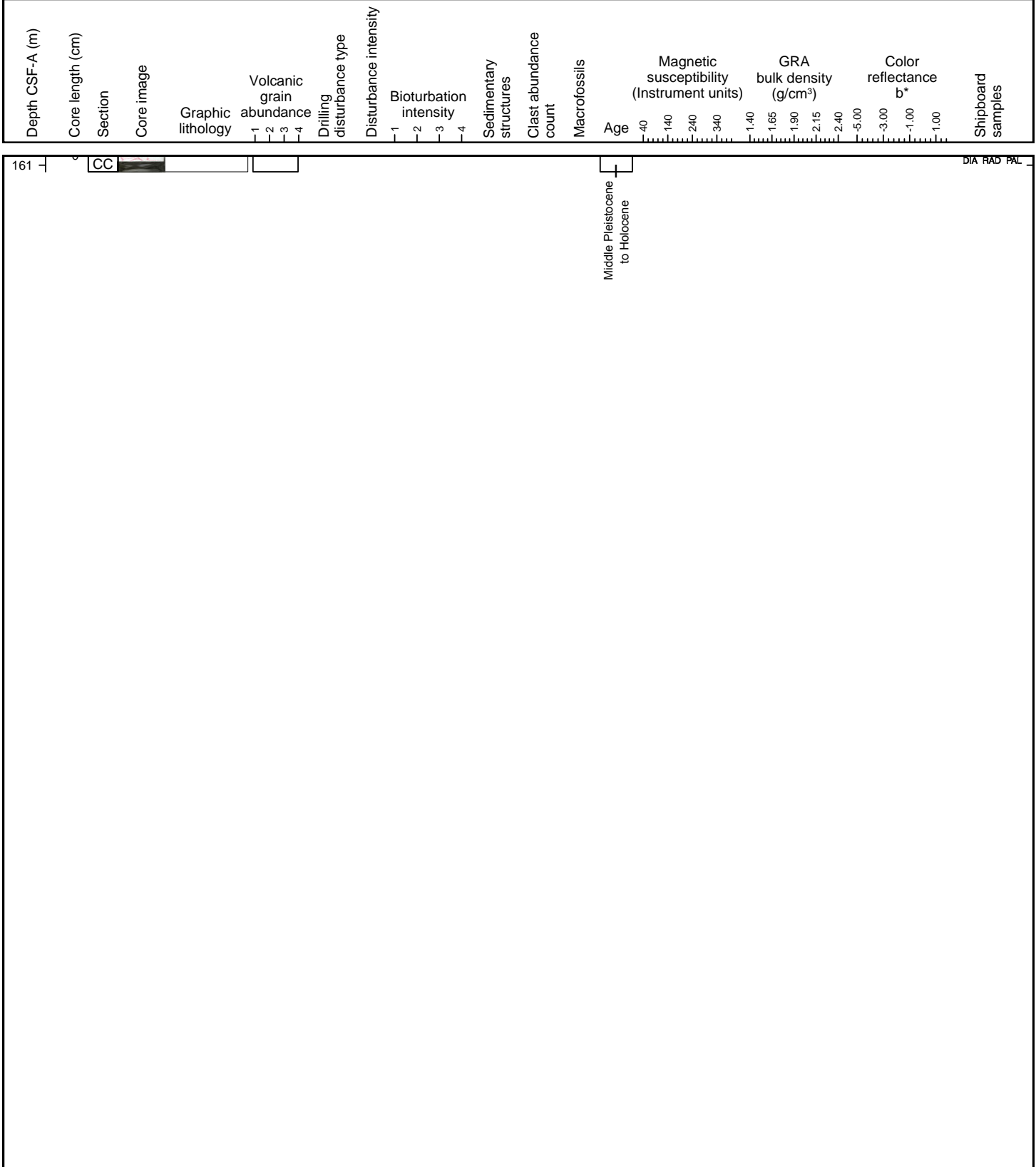
Very dark gray (N 3) clast-rich diamict with a sandy mud matrix is the major lithology. Granules and pebbles include basalt, siltstone, sandstone, argillite, vein quartz, metasandstone, rhyolite, greenstone. One washed pebble of metasediment is present at the bottom of the core.



Hole 341-U1421A Core 27X, Interval 161.1-161.27 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

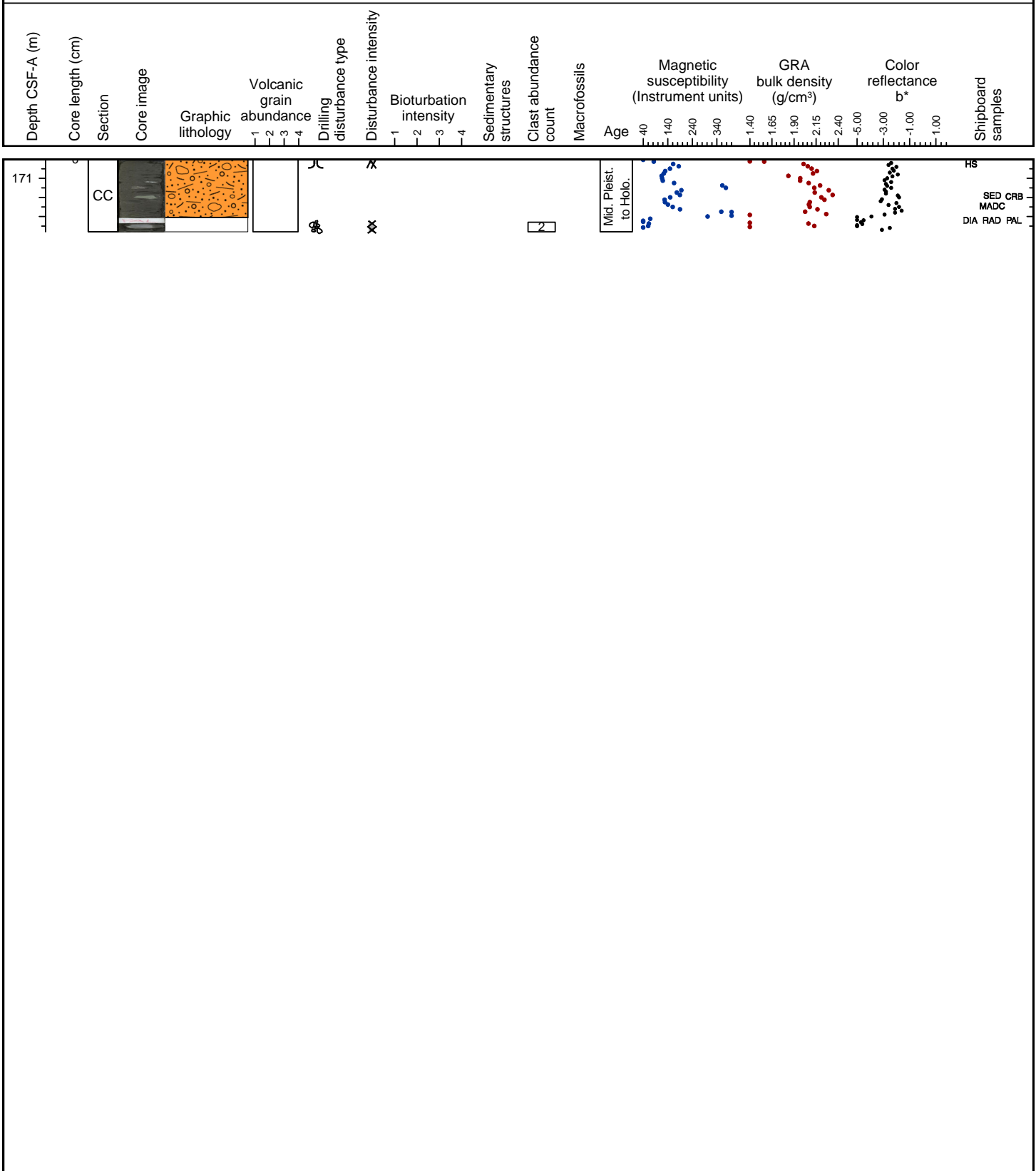
No major lithology was recovered, but two washed pebbles of metasiltstone and sandstone with attached muddy diamict are found.



Hole 341-U1421A Core 28X, Interval 170.8-171.56 m (CSF-A)

CLAST-RICH DIAMICT, MINOR LITHOLOGY NOT RECOVERED

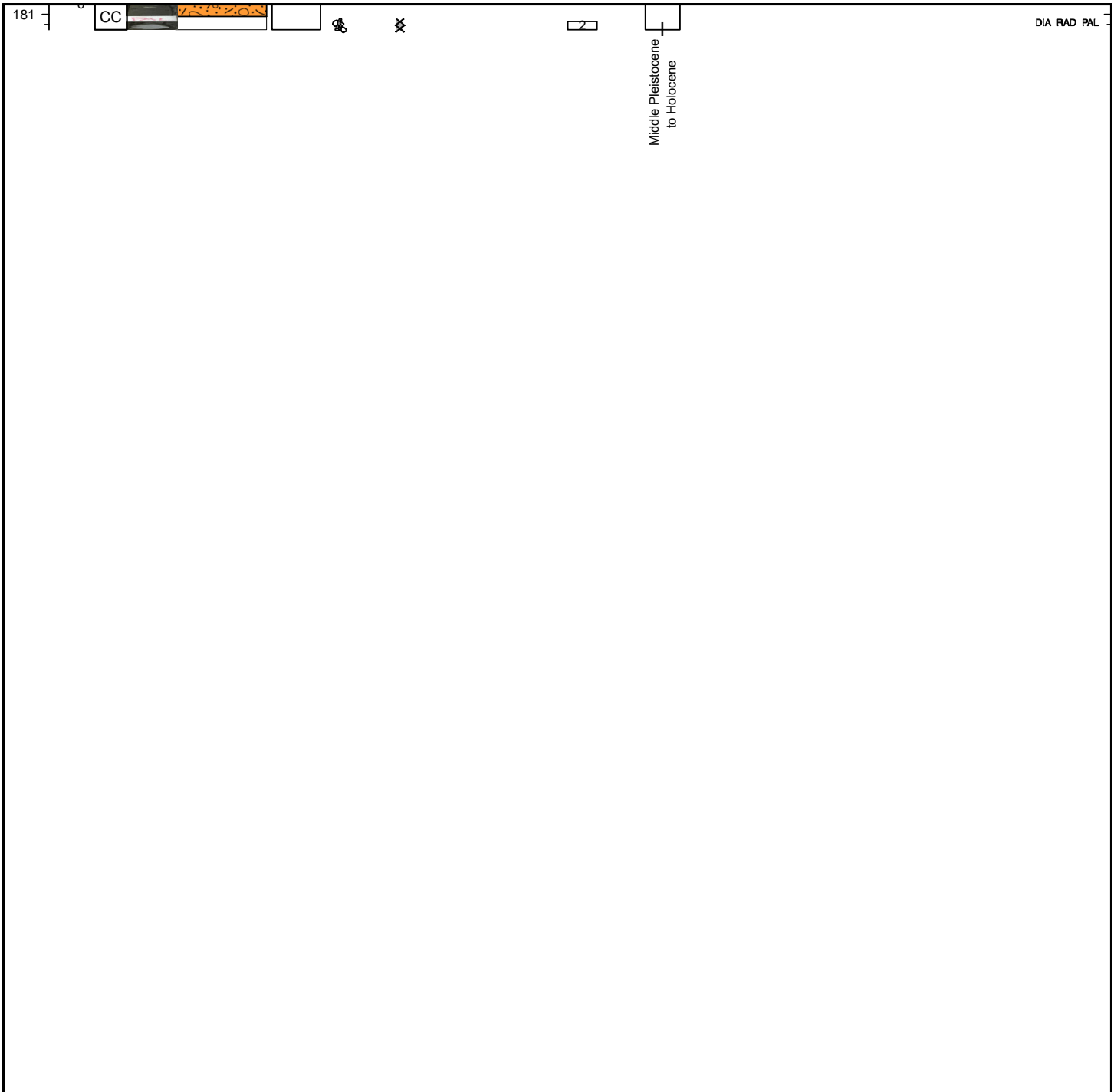
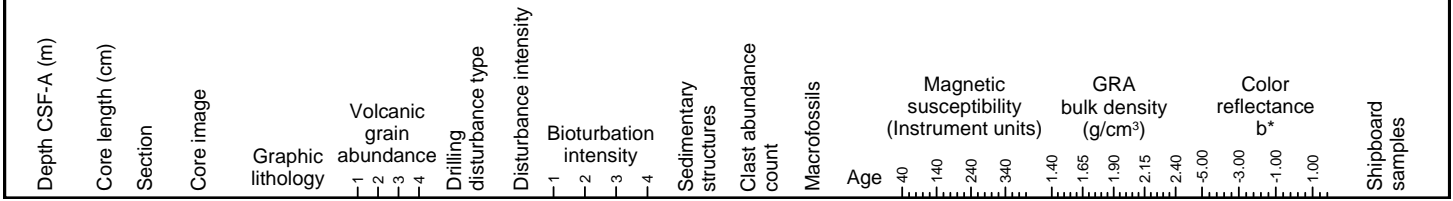
Very dark gray (N 3) clast-rich diamict with a muddy matrix is the major lithology. Clasts (up to 4 cm) are mainly subangular and clast lithologies include siltstone, greenstone, granitoid, and metasiltstone. Two washed pebbles of metasiltstone are present at the bottom of the core.



Hole 341-U1421A Core 29X, Interval 180.5-180.75 m (CSF-A)

CLAST-RICH DIAMICT, MINOR LITHOLOGY NOT RECOVERED

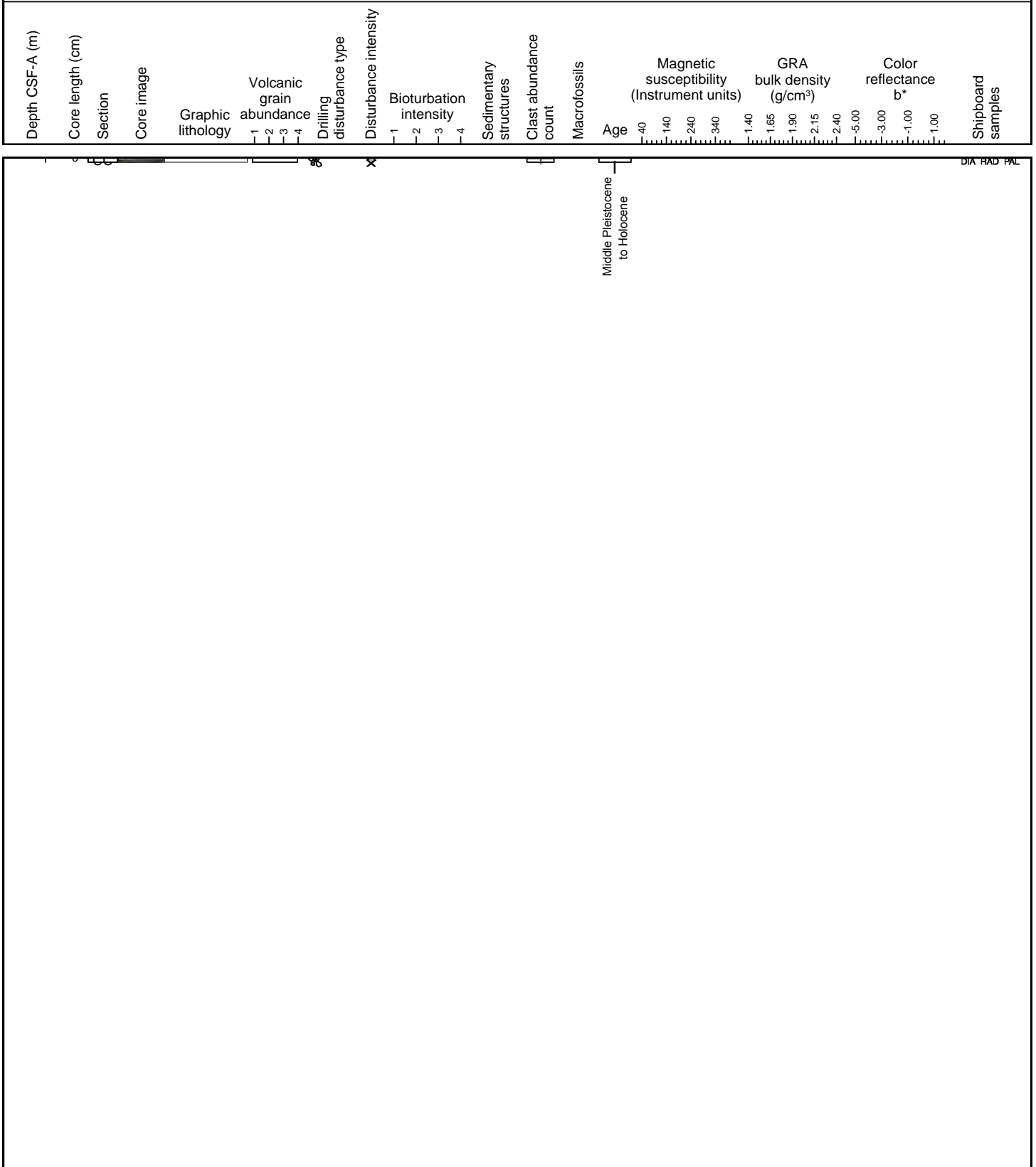
Dark gray (N 4), muddy clast-rich diamict is the major lithology. Clast lithologies include siltstone and some other metasediment. Two washed pebbles of metasandstone are found at the bottom of the core.



Hole 341-U1421A Core 30X, Interval 190.2-190.25 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED

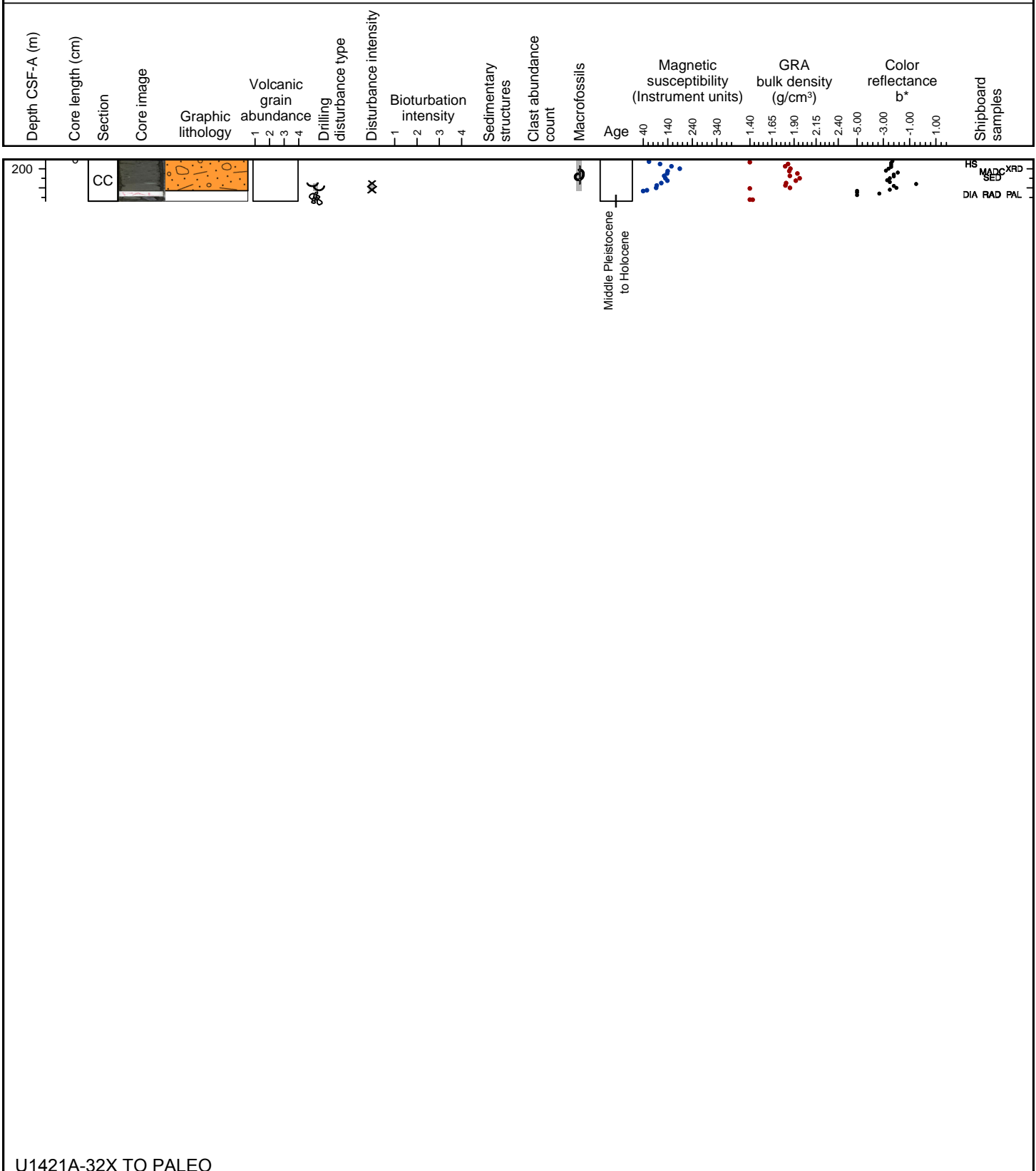
The matrix of the core has been washed away while drilling. This core contains a washed siltstone pebble.



Hole 341-U1421A Core 31X, Interval 199.9-200.34 m (CSF-A)

CLAST-POOR DIAMICT, MINOR LITHOLOGY NOT RECOVERED

Very dark gray (N 3) silty clast-poor diamict is the major lithology. Clast lithologies include siltstone, basalt, sandstone, vein quartz and argillite. Three washed pebbles of argillite and sandstone are found at the bottom of the core.

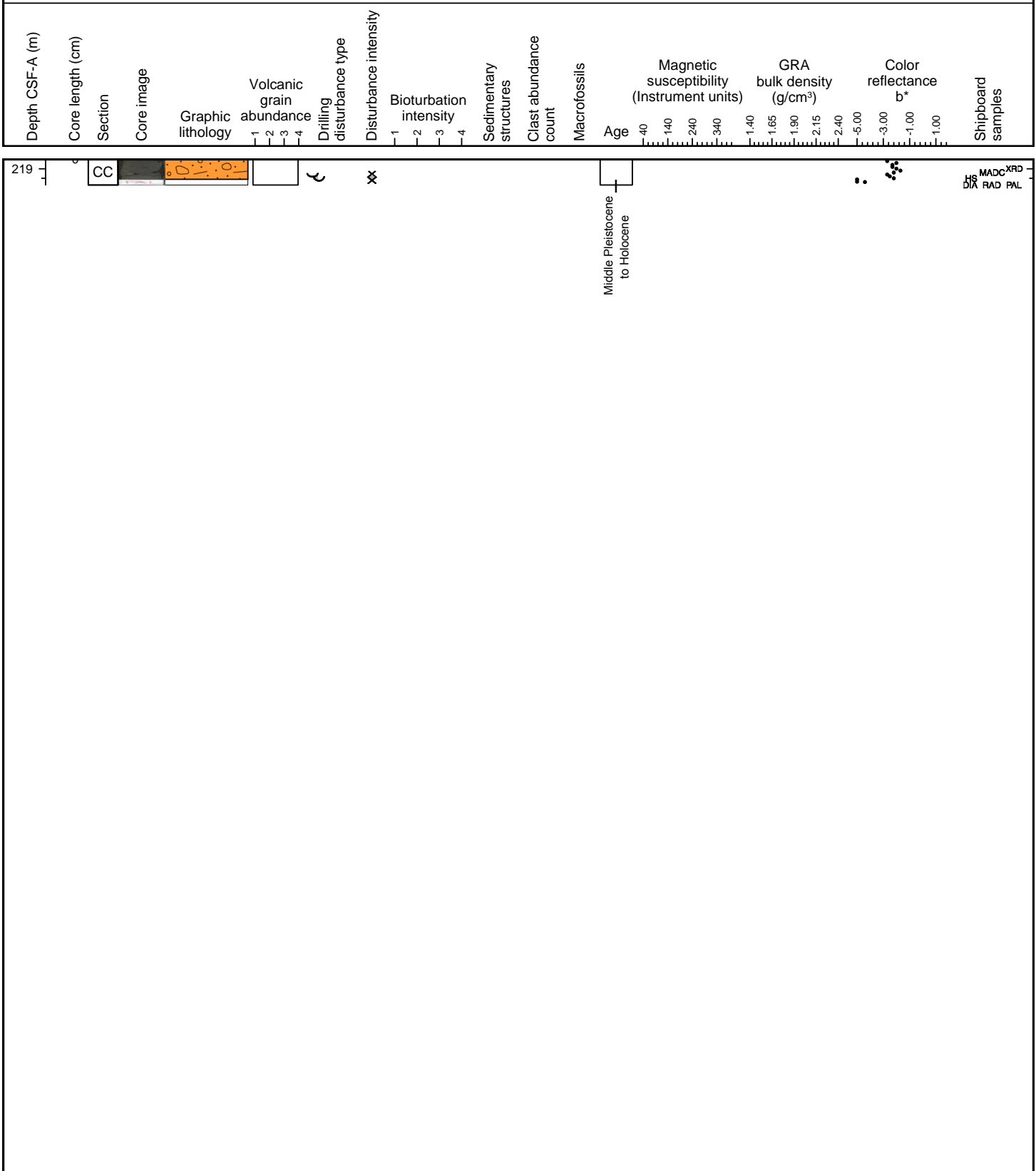


U1421A-32X TO PALEO

Hole 341-U1421A Core 33X, Interval 219.3-219.57 m (CSF-A)

CLAST-POOR DIAMICT

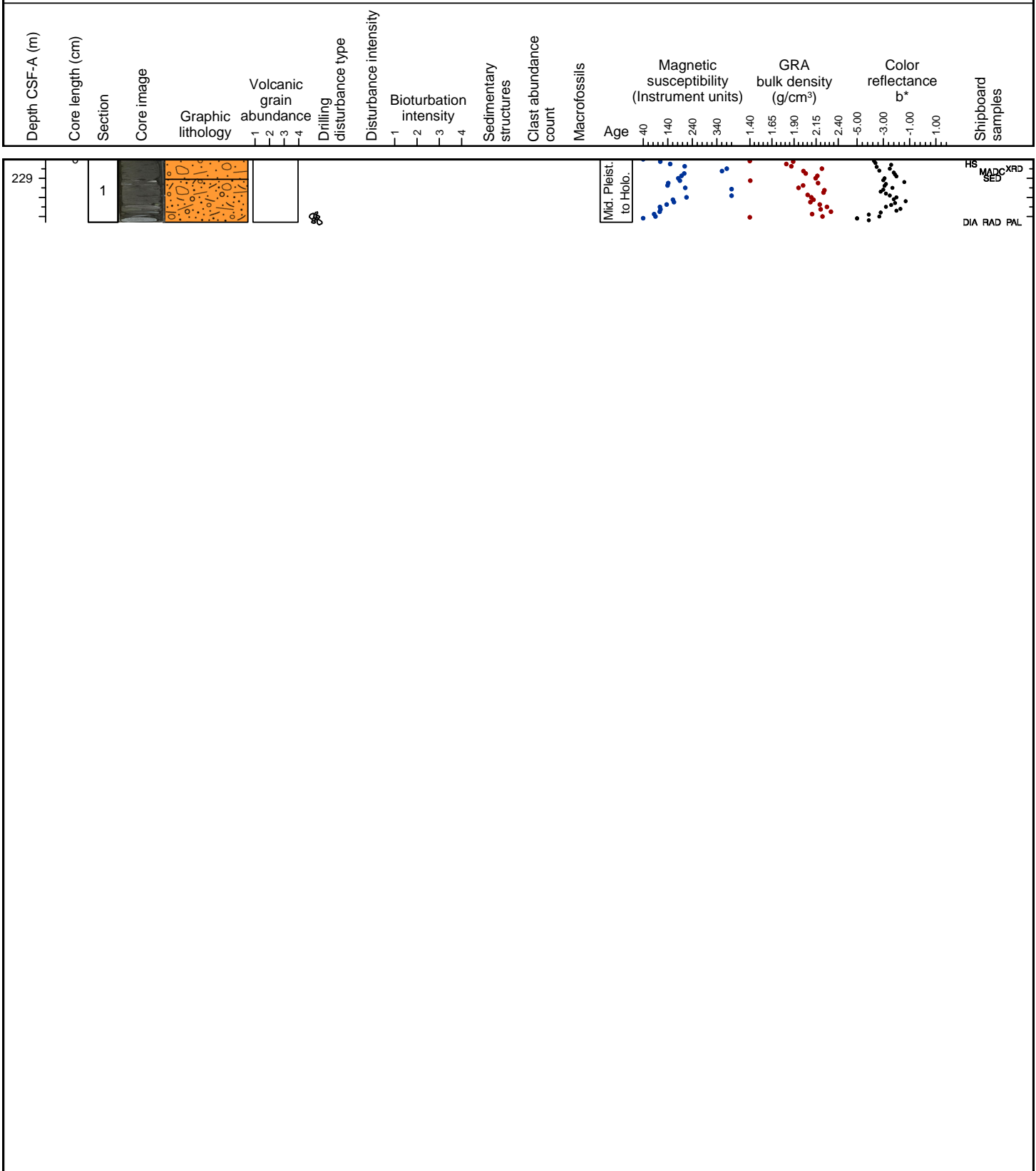
Very dark gray (N 3) silty clast-poor diamict is the major lithology. Clast lithologies include siltstone, sandstone and granite.



Hole 341-U1421A Core 34X, Interval 229.0-229.66 m (CSF-A)

CLAST-RICH DIAMICT, CLAST-POOR DIAMICT

Very dark gray (N 3) silty clast-rich diamict with sand is the major lithology. Clast lithologies include siltstone, basalt, rhyolite and granite. Very dark gray (N 3) silty clast-poor diamict with sand is the minor lithology. Clast lithologies include siltstone, sandstone, argillite, gneiss, basalt and granite.

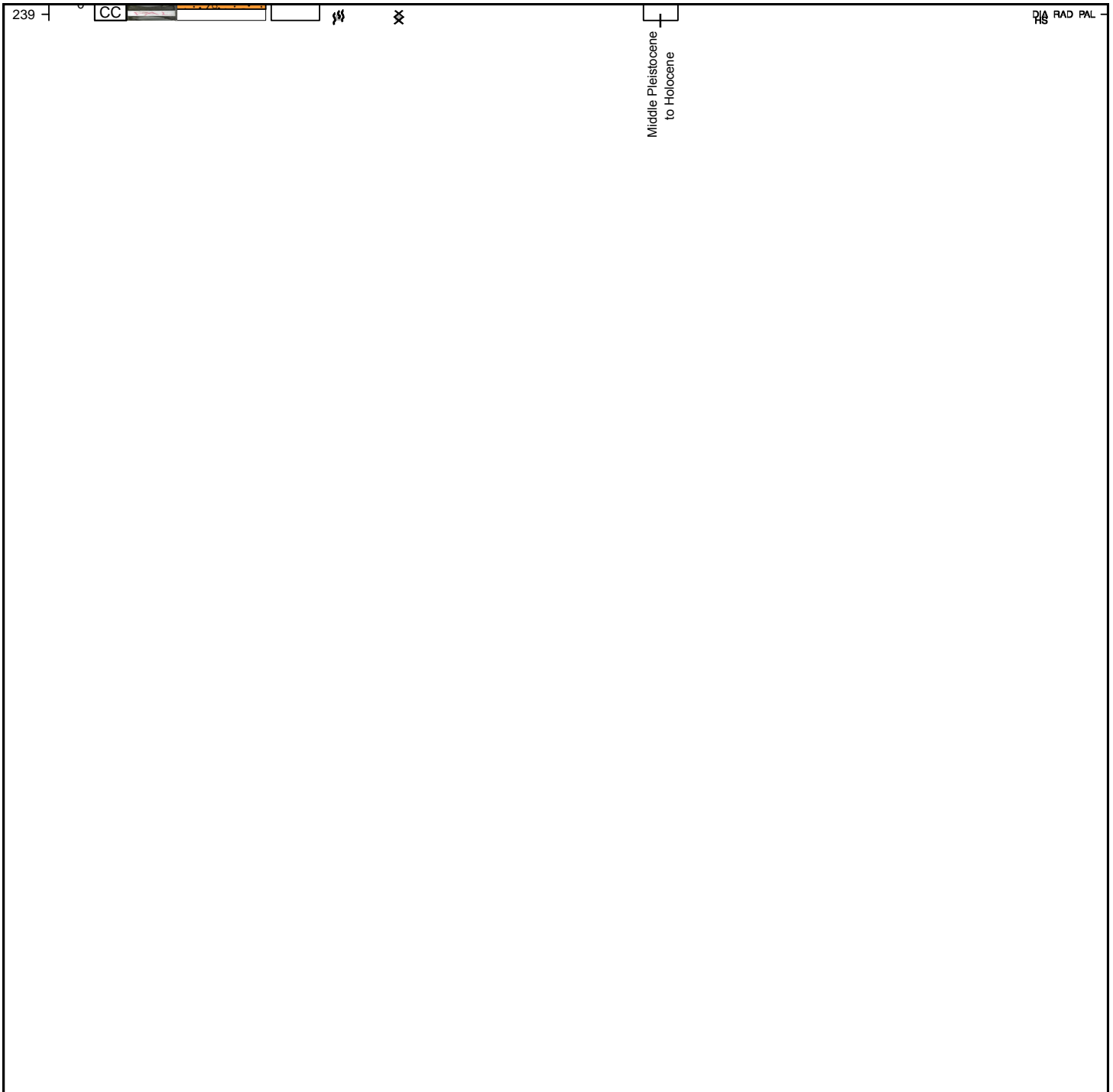
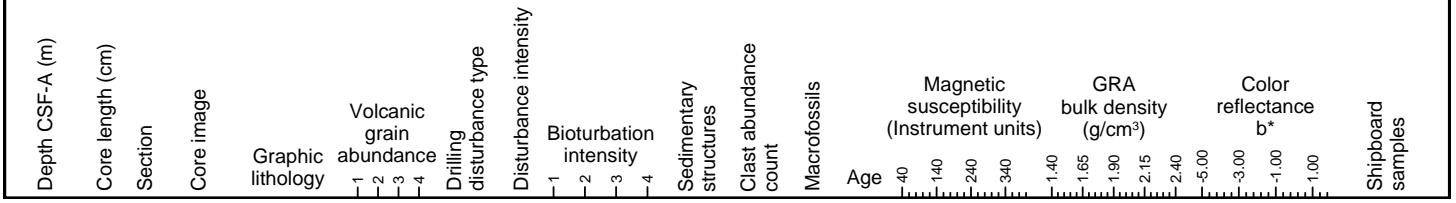




Hole 341-U1421A Core 35X, Interval 238.7-238.86 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED, CLAST-RICH DIAMICT

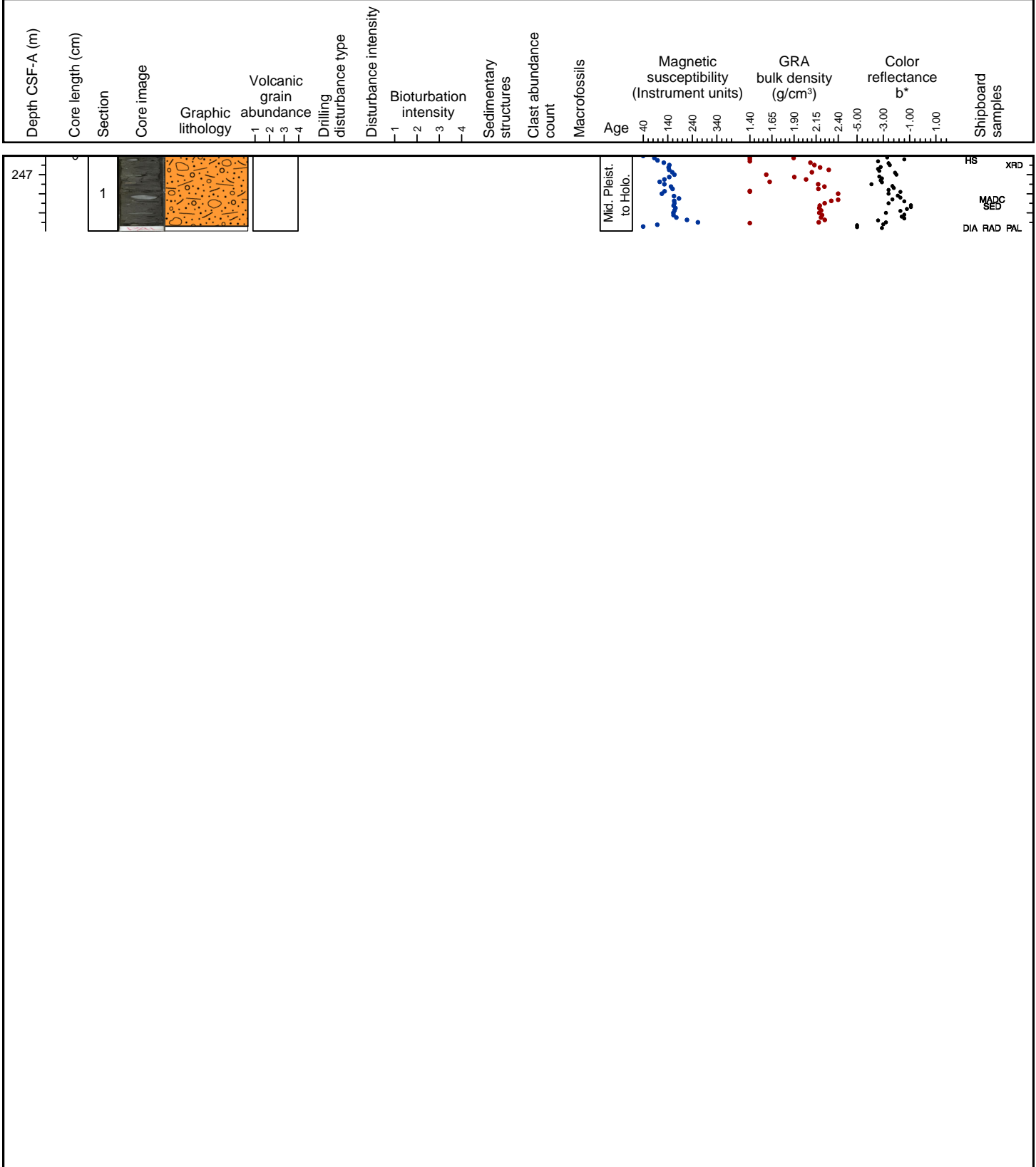
No major lithology recovered. Matrix material has been washed away while drilling. One sandstone clast remains. Very dark gray (N 3) silty clast-rich diamict is a minor lithology. Clast lithologies include sandstone, basalt, and siltstone.



Hole 341-U1421A Core 36X, Interval 246.4-247.19 m (CSF-A)

CLAST-RICH DIAMICT

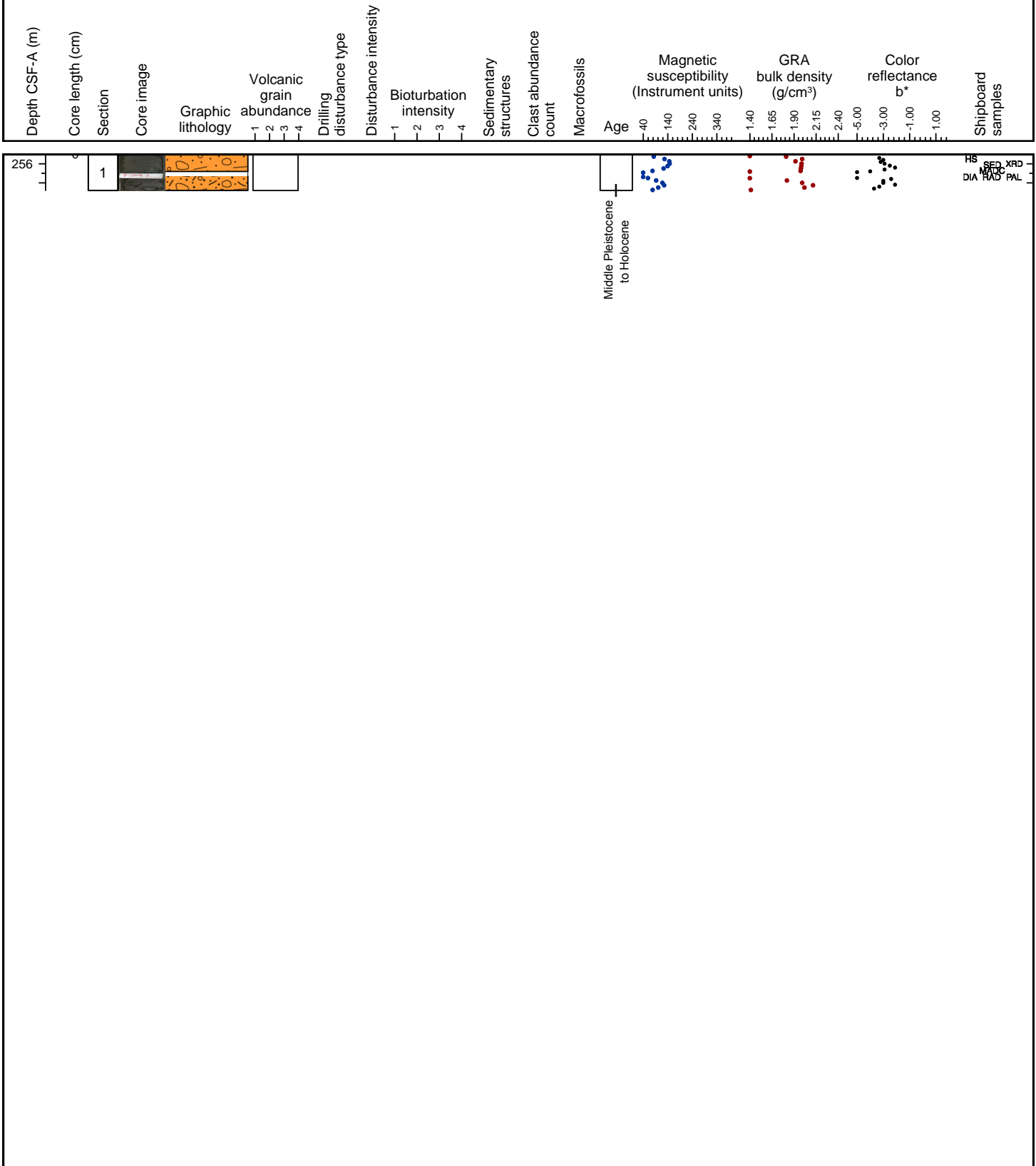
Very dark gray (N 3) silty clast-rich diamict is the major lithology. Clast lithologies include sandstone (up to cobble sized), greywacke, siltstone, gneiss, granitoid, basalt, quartz, argillite, and rhyolite.



Hole 341-U1421A Core 37X, Interval 256.1-256.48 m (CSF-A)

CLAST-POOR DIAMICT, CLAST-RICH DIAMICT

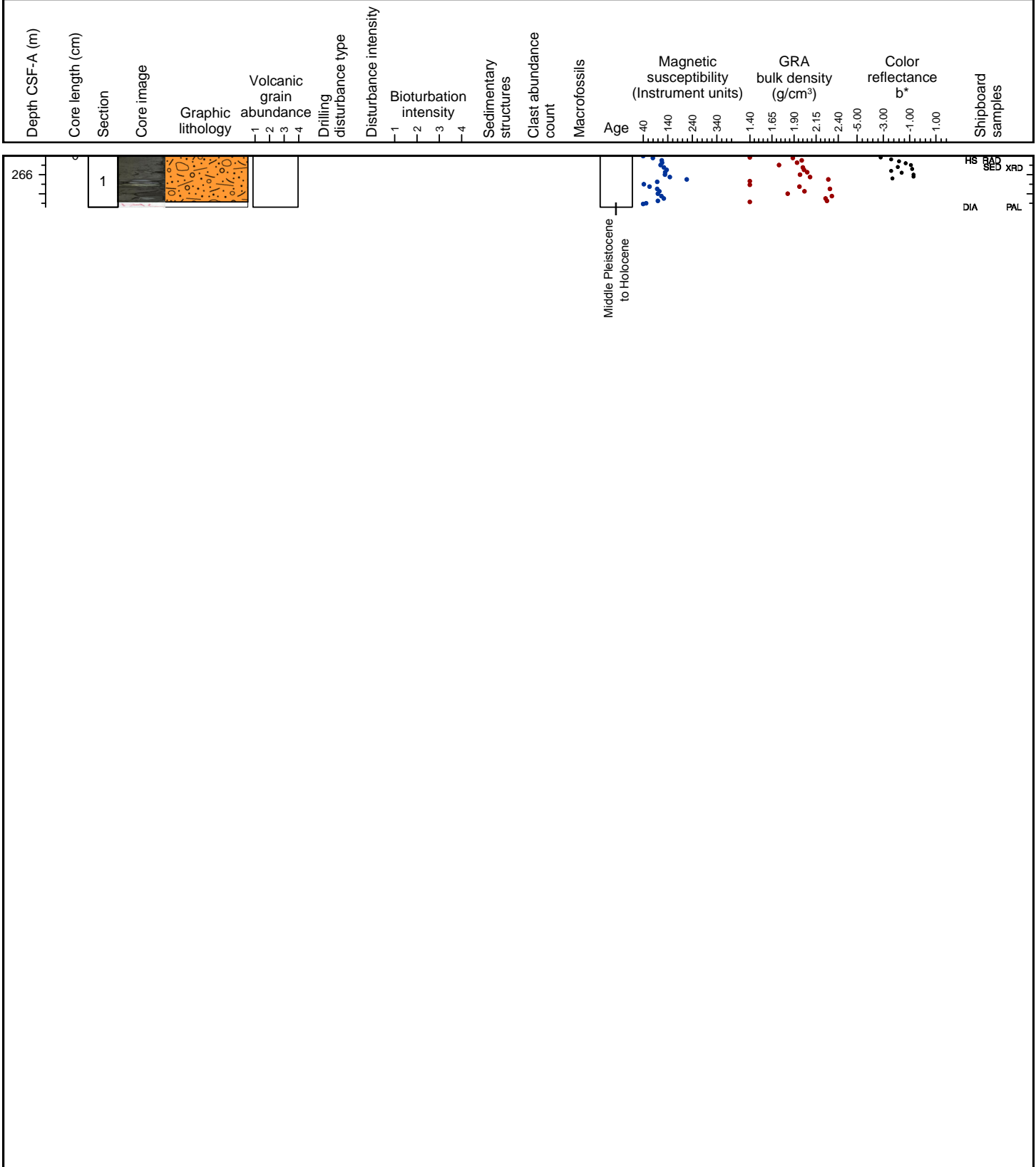
Very dark gray (N 3) silty clast-poor diamict is the major lithology. Very dark gray (N 3) silty clast-rich diamict is a minor lithology. Clast lithologies include greywacke, basalt, sandstone, siltstone, metasiltstone, and argillite.



Hole 341-U1421A Core 38X, Interval 265.8-266.34 m (CSF-A)

CLAST-RICH DIAMICT

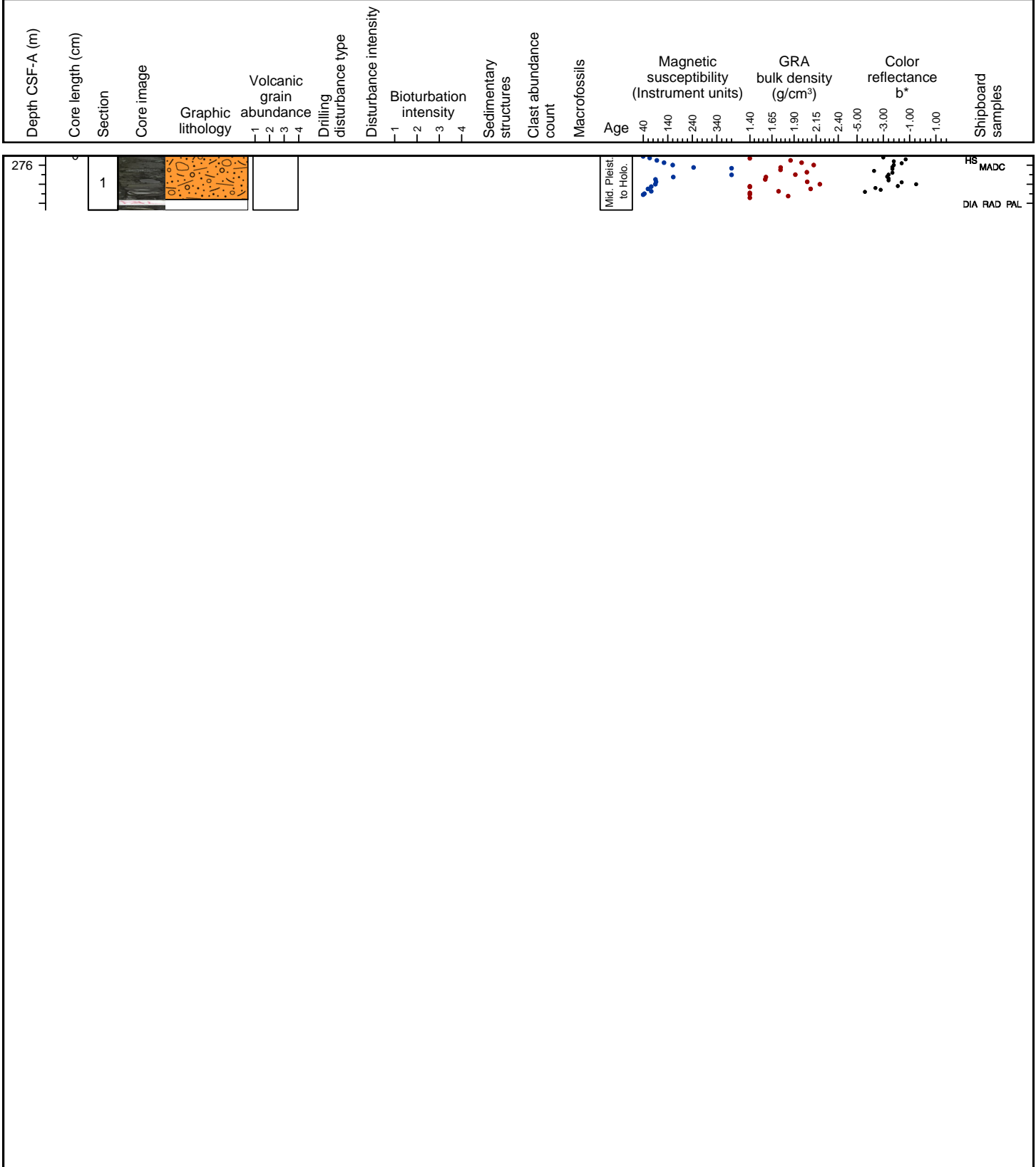
Very dark gray (N 3) clast-rich diamict with a sandy mud matrix is the major lithology. Clast lithologies include greenstone, sandstone, diorite, sandstone with quartz veins, metasediment, basalt, siltstone, granitoid and granite-sandstone contact. Three washed pebbles of sandstone, sandstone with quartz vein and granitoid are found at the bottom of the core.



Hole 341-U1421A Core 39X, Interval 275.5-276.07 m (CSF-A)

CLAST-RICH DIAMICT, MINOR LITHOLOGY NOT RECOVERED

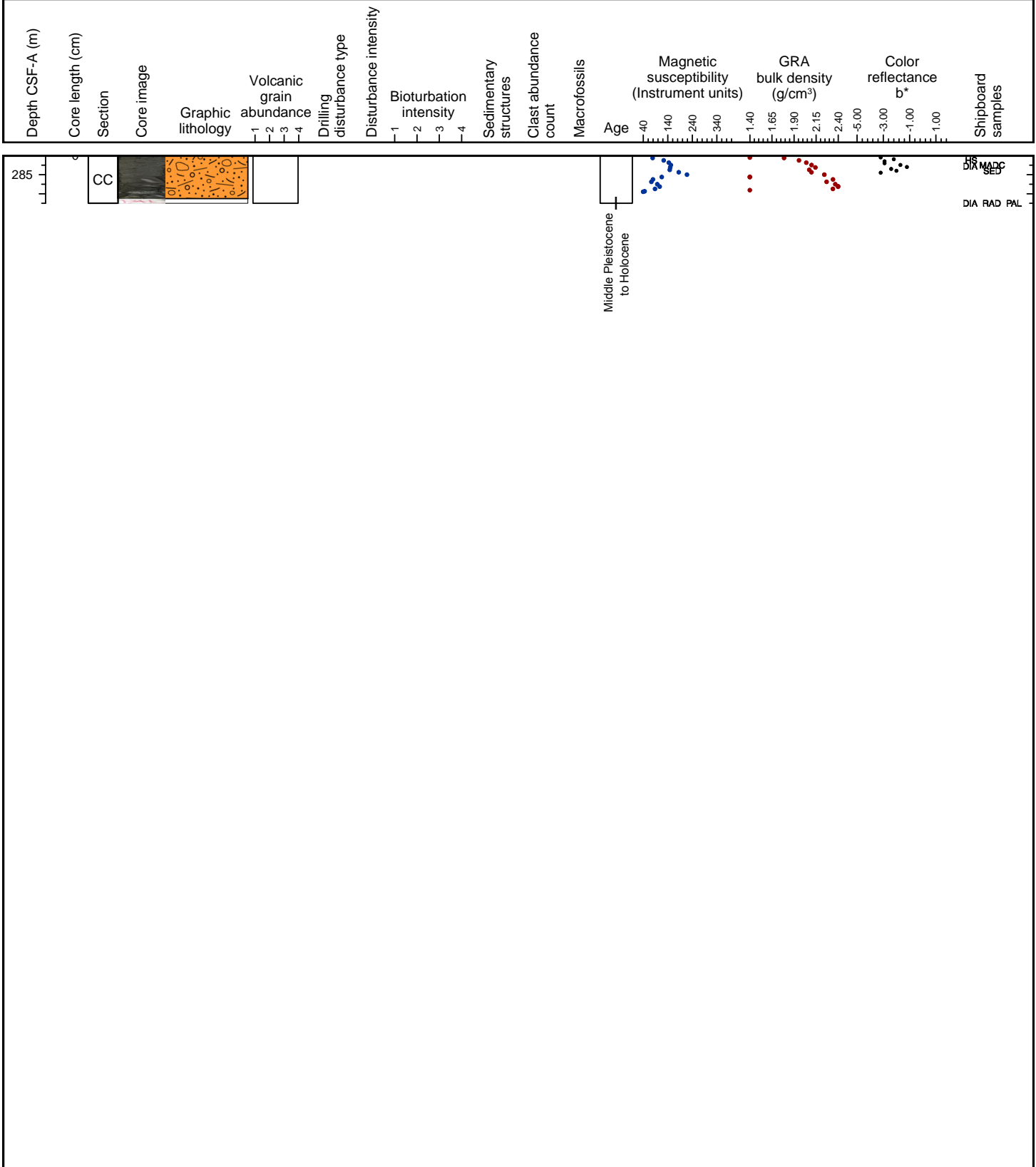
Very dark gray (N 3) clast-rich diamict with a sandy mud matrix is the major lithology. The minor lithology below the PAL sample was not recovered, and only clasts remain. Clast lithologies include vein quartz, basalt, sandstone, metasediment, rhyolite, siltstone, granitoid and argillite.



Hole 341-U1421A Core 40X, Interval 285.2-285.7 m (CSF-A)

CLAST-RICH DIAMICT

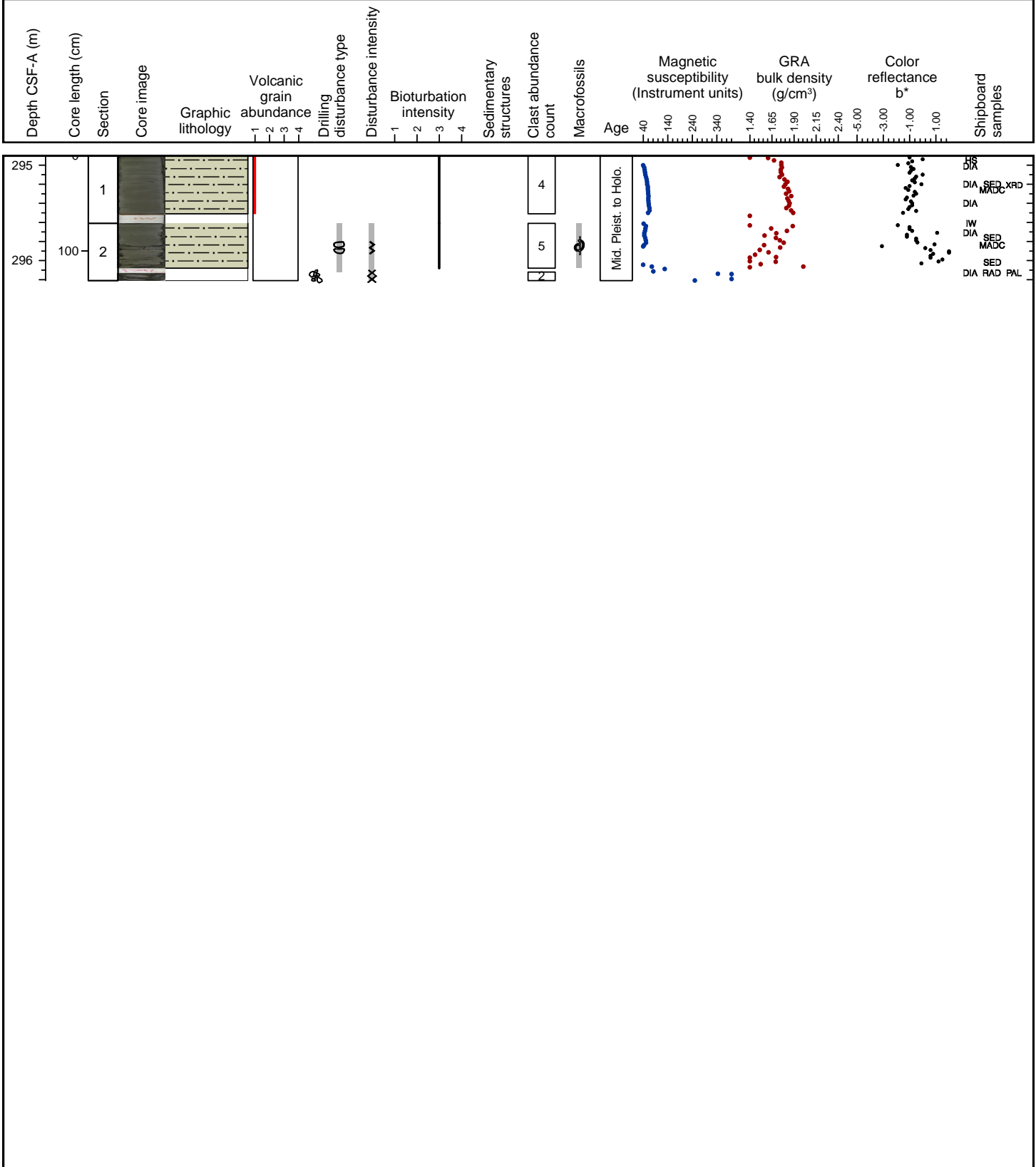
Very dark gray (N 3) clast-rich diamict with a sandy mud matrix is the major lithology. Clast lithologies include sandstone, basalt, argillite, metasediment, greenstone and a folded, mica-rich gneiss.



Hole 341-U1421A Core 41X, Interval 294.9-296.21 m (CSF-A)

MUD, MINOR LITHOLOGY NOT RECOVERED

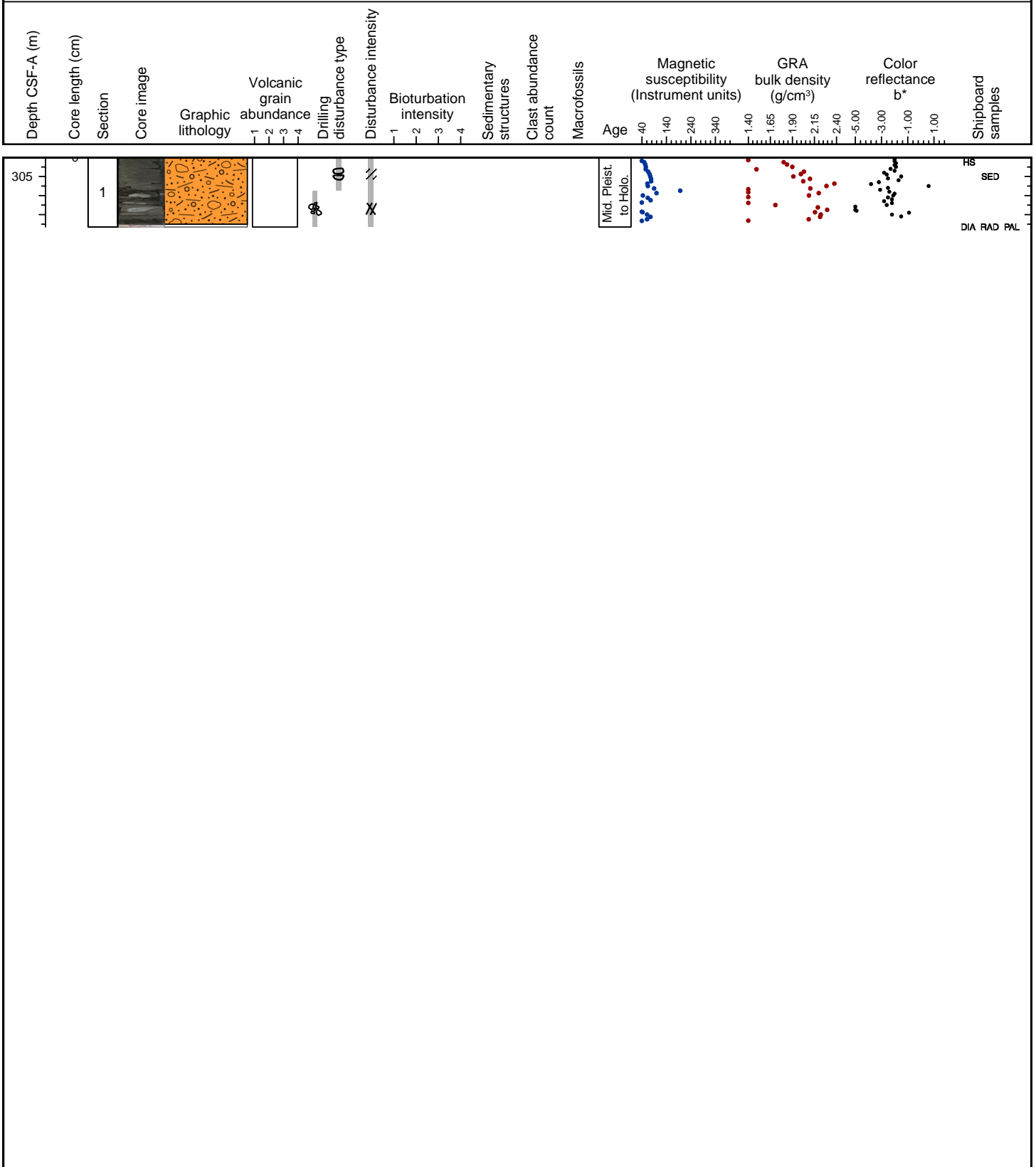
Dark greenish gray (10Y 4/1) diatom bearing, clayey mud with volcanic ash is the major lithology. Dark greenish gray (10Y 4/1) diatom rich, clayey mud is the minor lithology. Few dispersed lithic grains are observed. Shell fragments are present in Section 2. The core is highly bioturbated. The minor lithology below the PAL sample in Section 2 was not recovered, and only clasts (siltstone and sandstone) remain.



Hole 341-U1421A Core 42X, Interval 304.6-305.33 m (CSF-A)

CLAST-RICH DIAMICT

Very dark gray (N 3) clast-rich diamict with a sandy mud matrix is the major lithology. Clast lithologies include siltstone, metasandstone, granitoid, and greenstone.

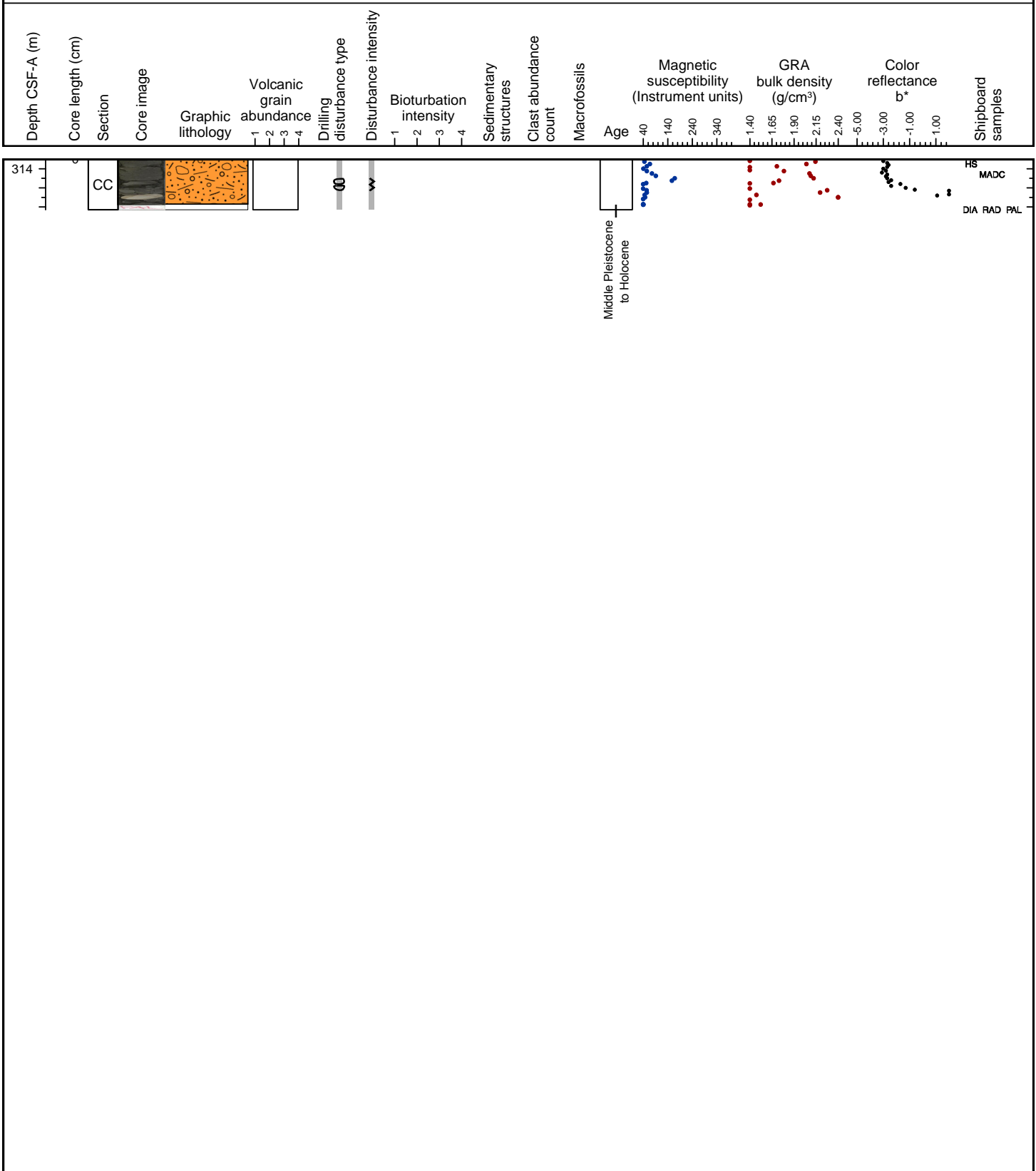




Hole 341-U1421A Core 43X, Interval 314.3-314.83 m (CSF-A)

CLAST-RICH DIAMICT

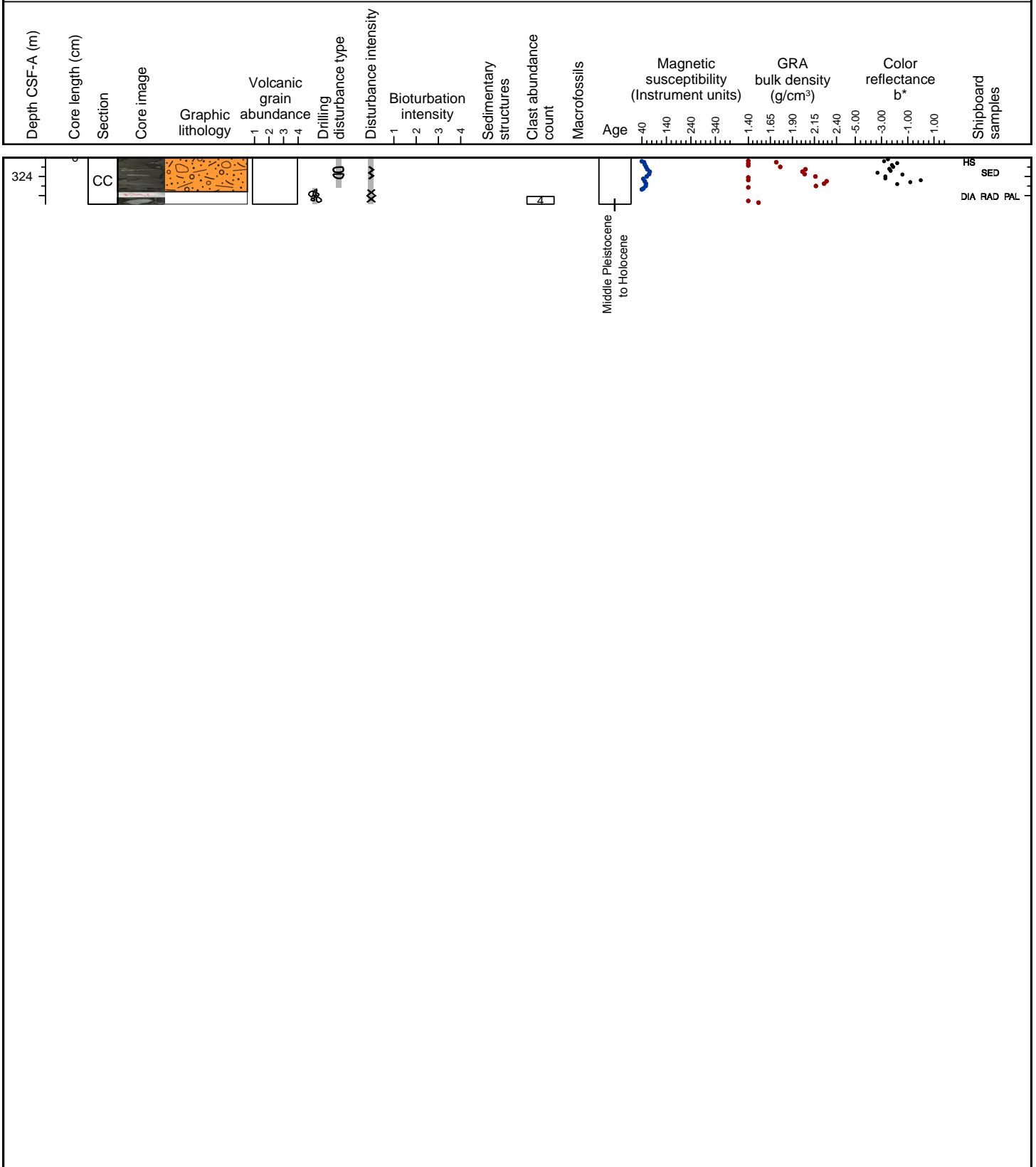
Very dark gray (N 3) clast-rich diamict with a sandy mud matrix is the major lithology. Granules and pebbles (up to 5 cm) of siltstone, granitoid, and sandstone are present.



Hole 341-U1421A Core 44X, Interval 324.0-324.49 m (CSF-A)

CLAST-RICH DIAMICT, MINOR LITHOLOGY NOT RECOVERED

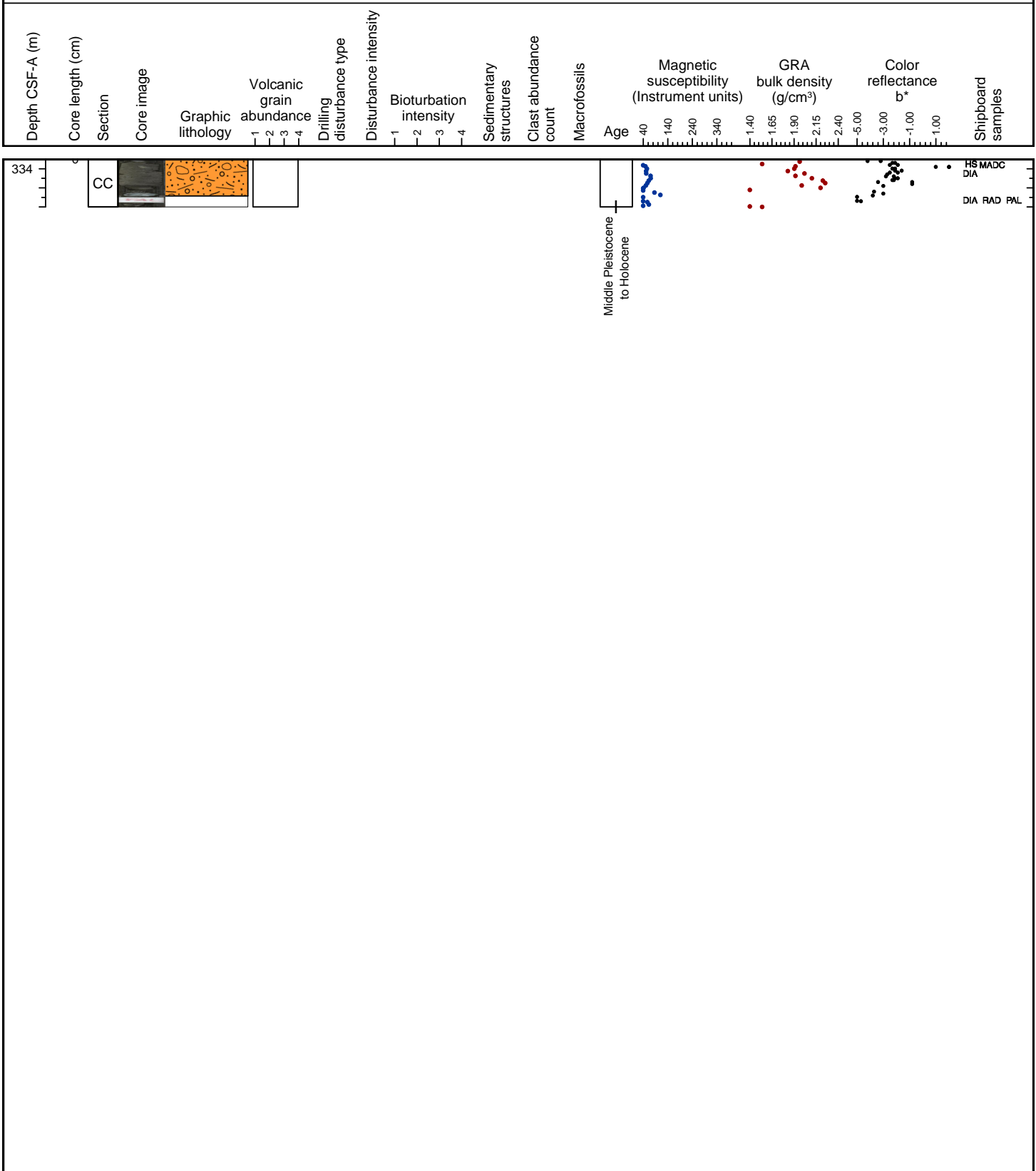
Very dark gray (N 3) clast-rich diamict with a sandy mud matrix is the major lithology. Granules and pebbles (up to 4 cm) of siltstone, sandstone, gneiss, and brecciated metasedimentary rocks are present. The lower part of the core contains washed gravel of metasandstone and siltstone. The minor lithology below the PAL sample was not recovered, and only clasts (siltstone and metasandstone) remain.



Hole 341-U1421A Core 45X, Interval 333.7-334.2 m (CSF-A)

CLAST-RICH DIAMICT, MINOR LITHOLOGY NOT RECOVERED

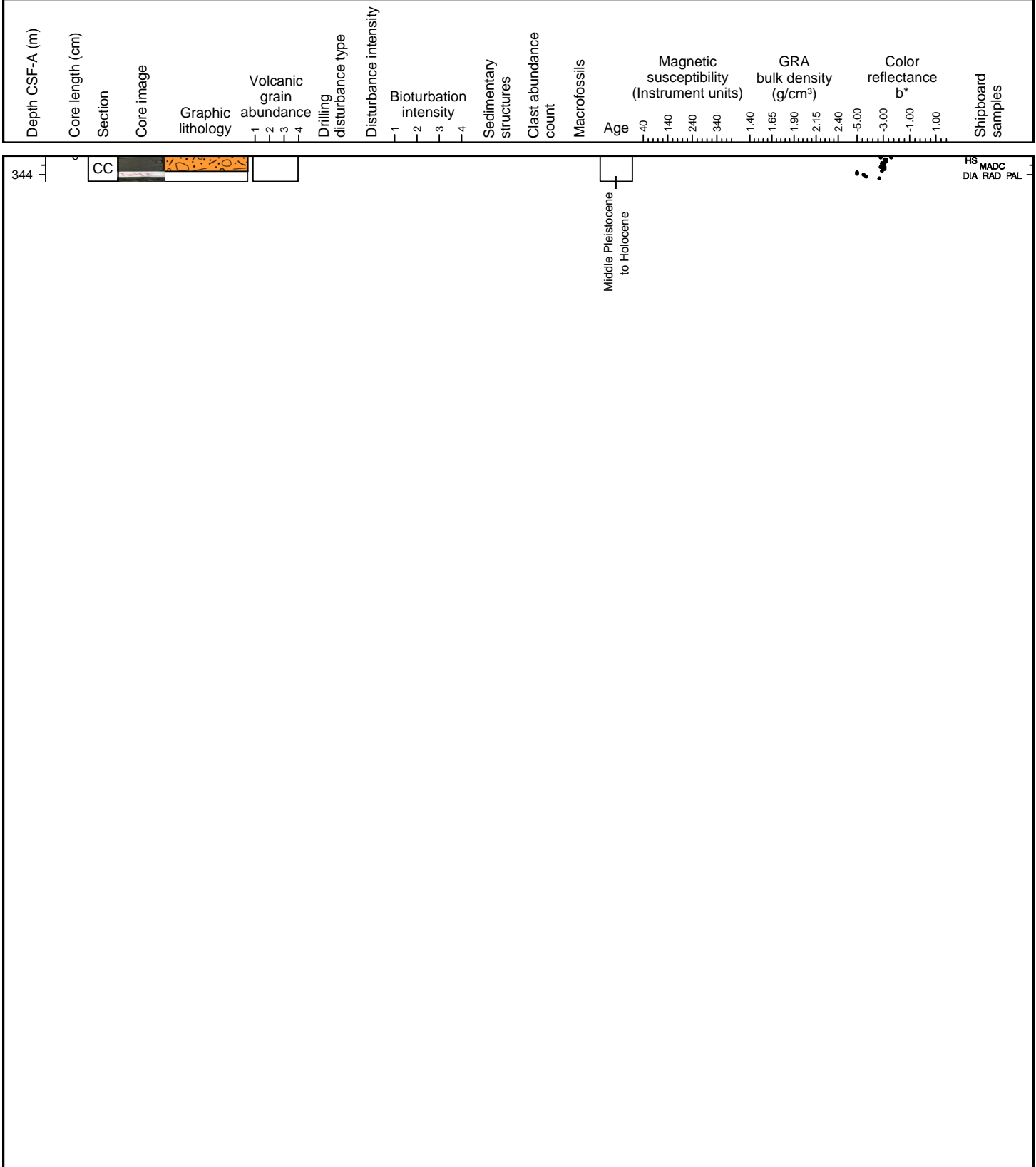
Dark gray (N 4) clast-rich diamict with muddy matrix is the major lithology. Granules and pebbles include sandstone, basalt, greenstone, diorite, metasediment, undefined metamorphic rock, siltstone and argillite. The lower part of the core contains washed gravel of basalt, granitoid and sandstone.



Hole 341-U1421A Core 46X, Interval 343.4-343.67 m (CSF-A)

CLAST-RICH DIAMICT, MINOR LITHOLOGY NOT RECOVERED

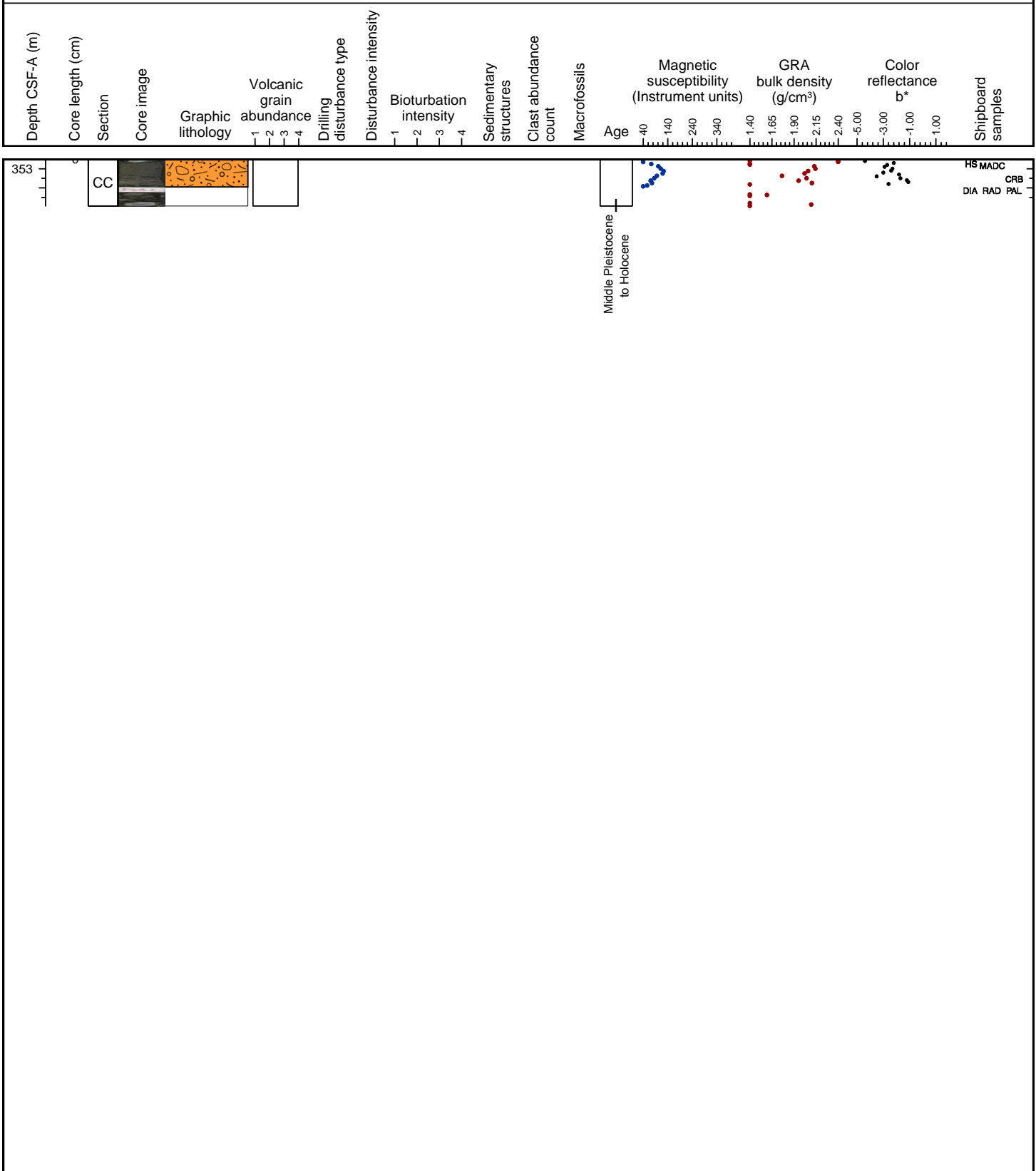
Dark gray (N 4) clast-rich diamict with sandy mud matrix is the major lithology. Granules and pebbles include greenstone and sandstone. The lower part of the core contains washed gravel of basalt and siltstone.



Hole 341-U1421A Core 47X, Interval 353.1-353.59 m (CSF-A)

CLAST-RICH DIAMICT, MINOR LITHOLOGY NOT RECOVERED

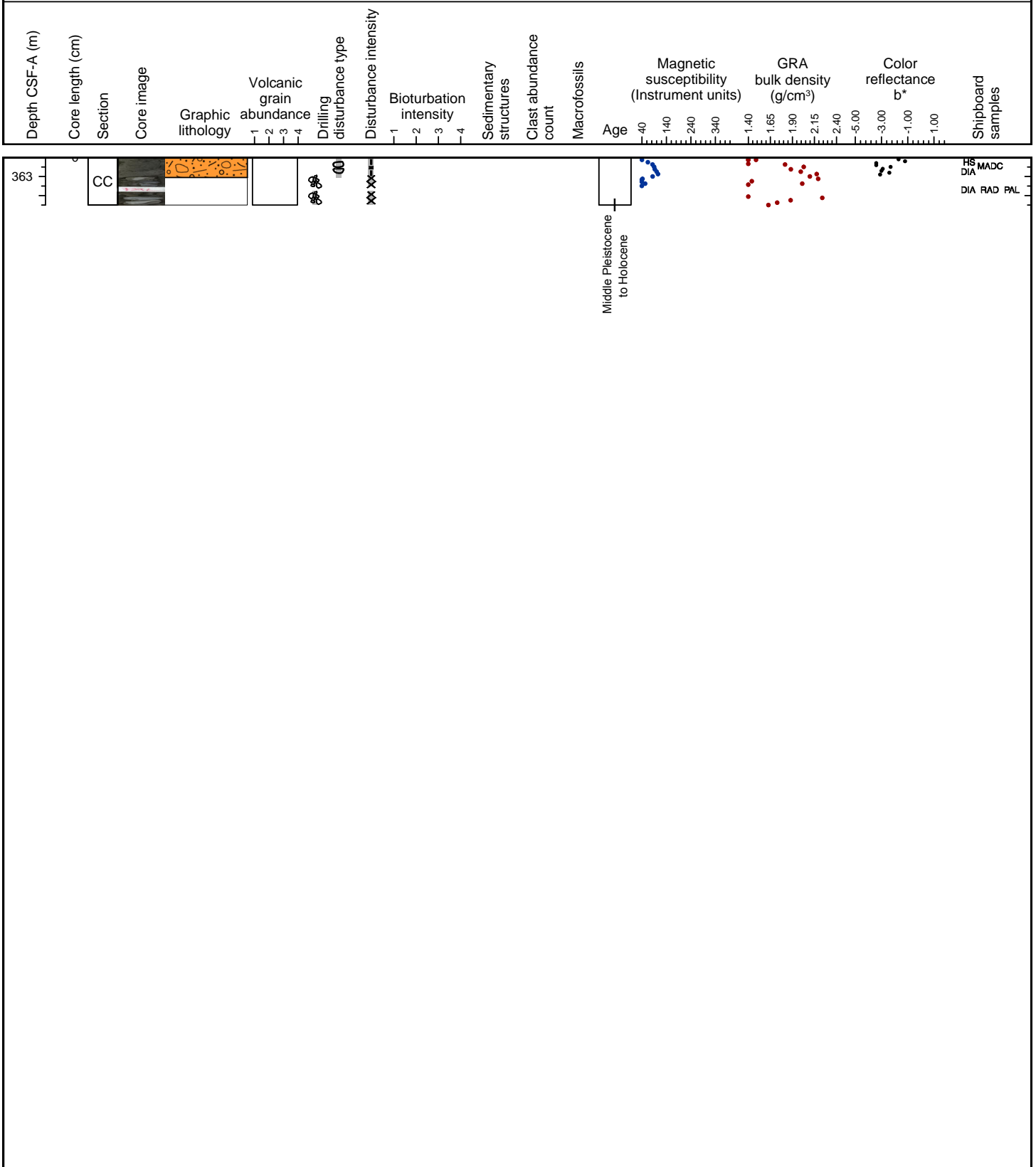
Dark gray (N 4) clast-rich diamict with sandy mud matrix is the major lithology. Granules and pebbles include metasediment, argillite, sandstone, basalt, siltstone. The lower part of the core contains washed gravel of sandstone, basalt, granitoid and metasediment.



Hole 341-U1421A Core 48X, Interval 362.8-363.3 m (CSF-A)

CLAST-RICH DIAMICT, MINOR LITHOLOGY NOT RECOVERED

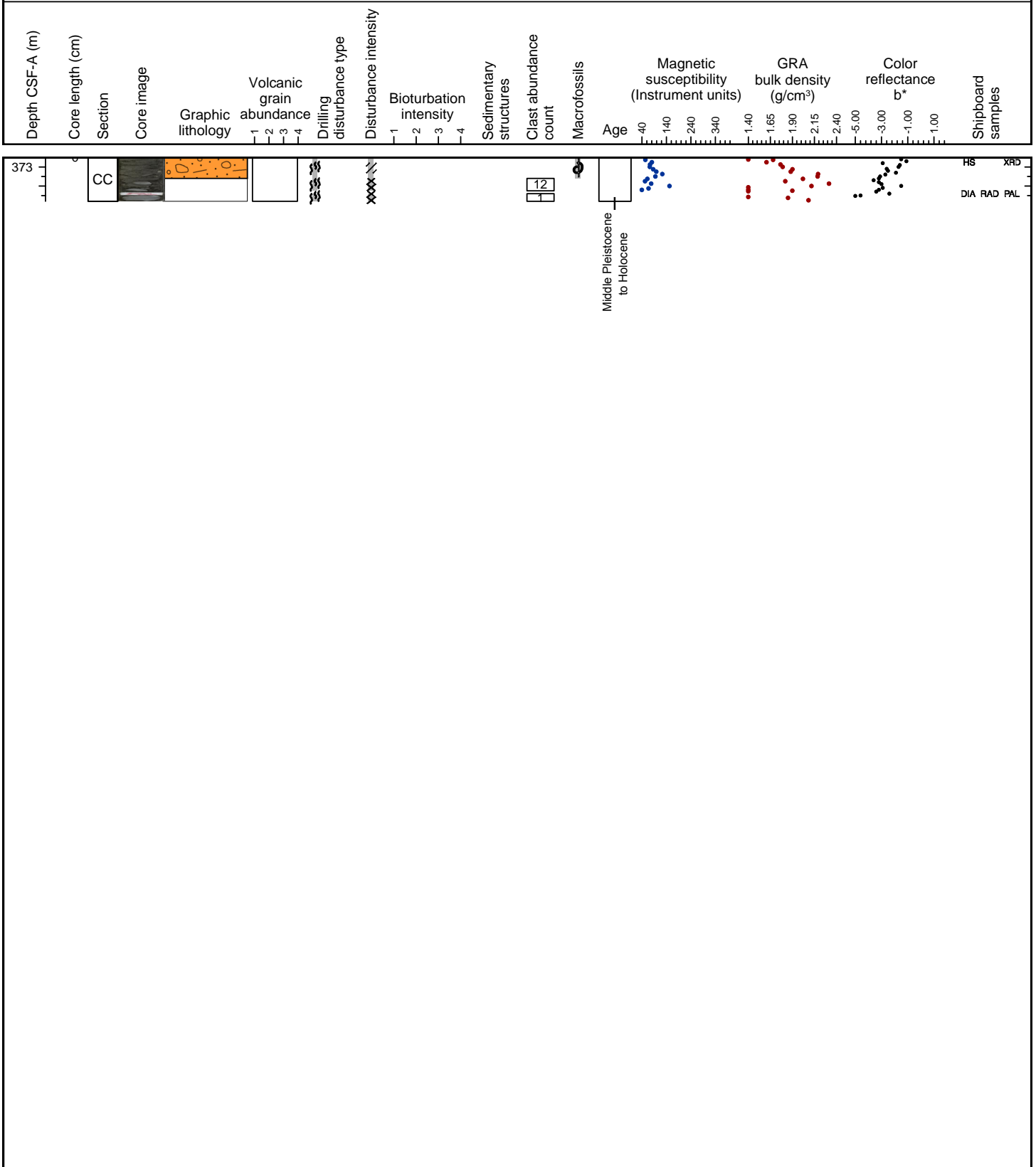
Dark gray (N 4) clast-rich diamict with sandy mud matrix is the major lithology. Granules and pebbles include sandstone and siltstone. The lower part of the core contains washed gravel of sandstone, siltstone and argillite.



Hole 341-U1421A Core 49X, Interval 372.5-372.96 m (CSF-A)

CLAST-POOR DIAMICT, MINOR LITHOLOGY NOT RECOVERED

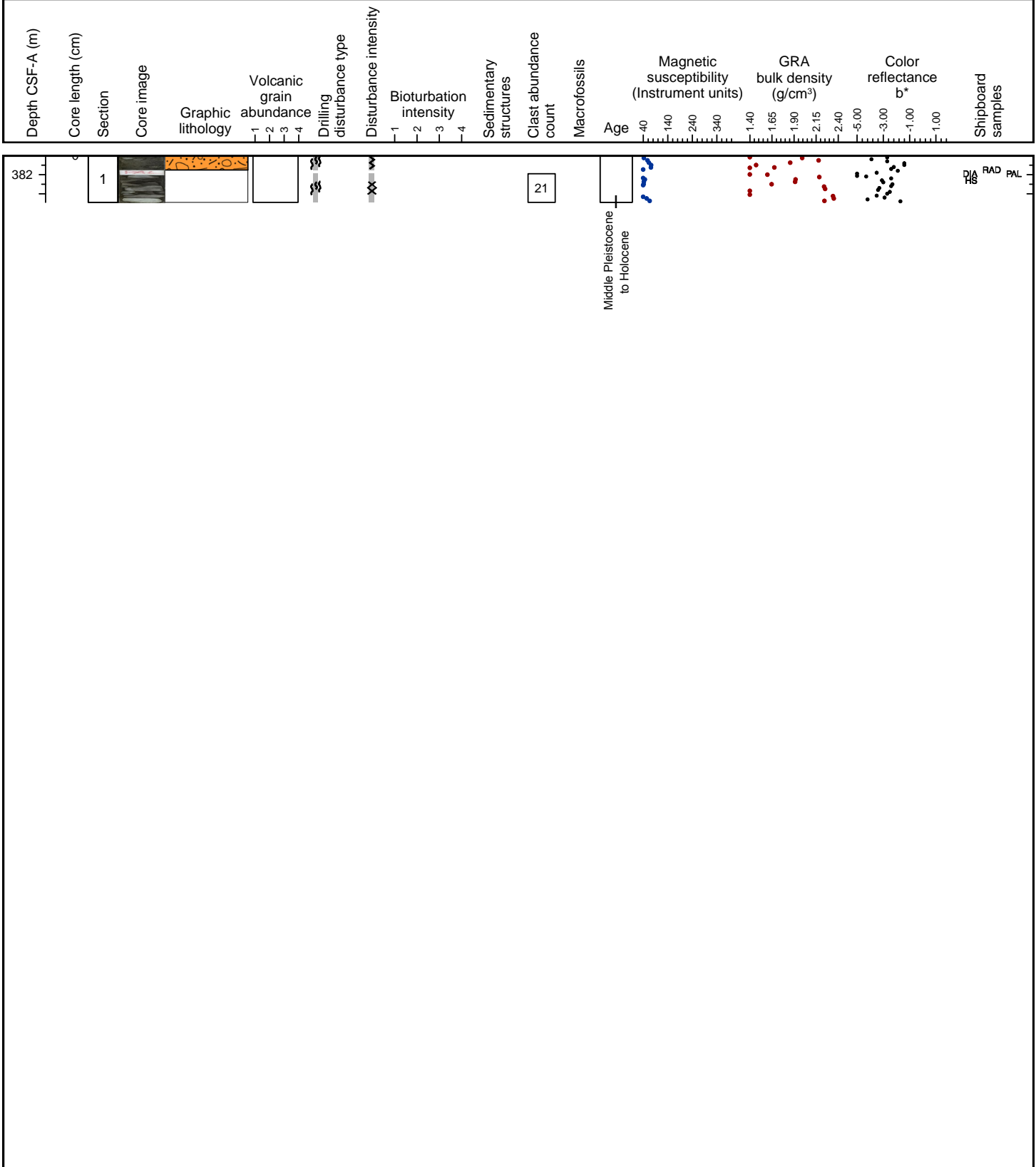
Very dark gray (N 3) silty clast-poor diamict is the major lithology. A minor lithology was not recovered due to wash during drilling, and clasts with a very small amount of mud remain. Clast lithologies include siltstone, basalt, sandstone, granitoid, and argillite. A large shell fragment is present in the CC.



Hole 341-U1421A Core 50X, Interval 382.2-382.69 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED, CLAST-RICH DIAMICT

The major lithology of the core has been washed away while drilling, leaving clasts and very little mud matrix. Very dark gray (N 3) silty clast-rich diamict is a minor lithology. Clast lithologies include sandstone, basalt, diorite, greywacke, and siltstone.

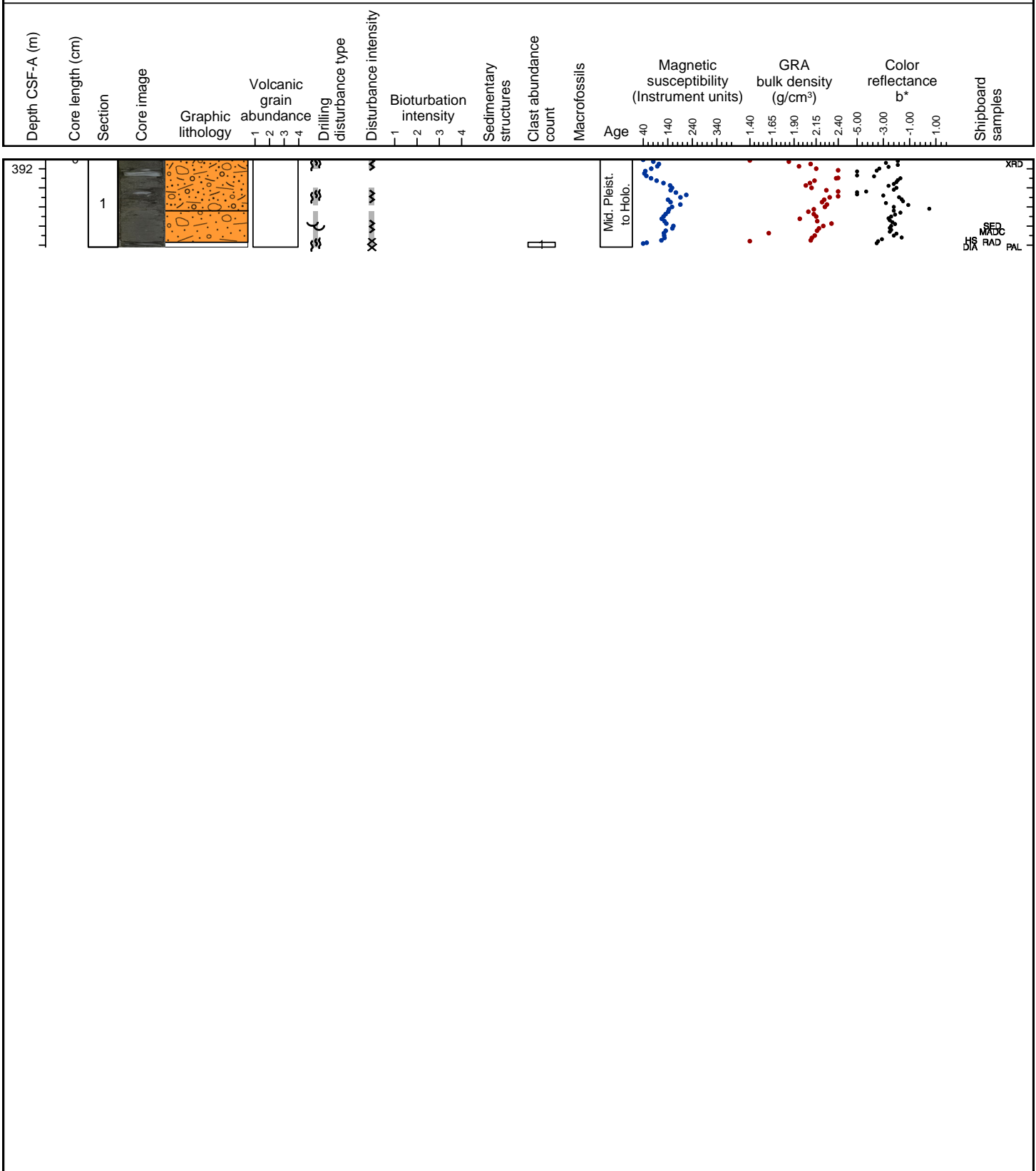




Hole 341-U1421A Core 51X, Interval 391.9-392.82 m (CSF-A)

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

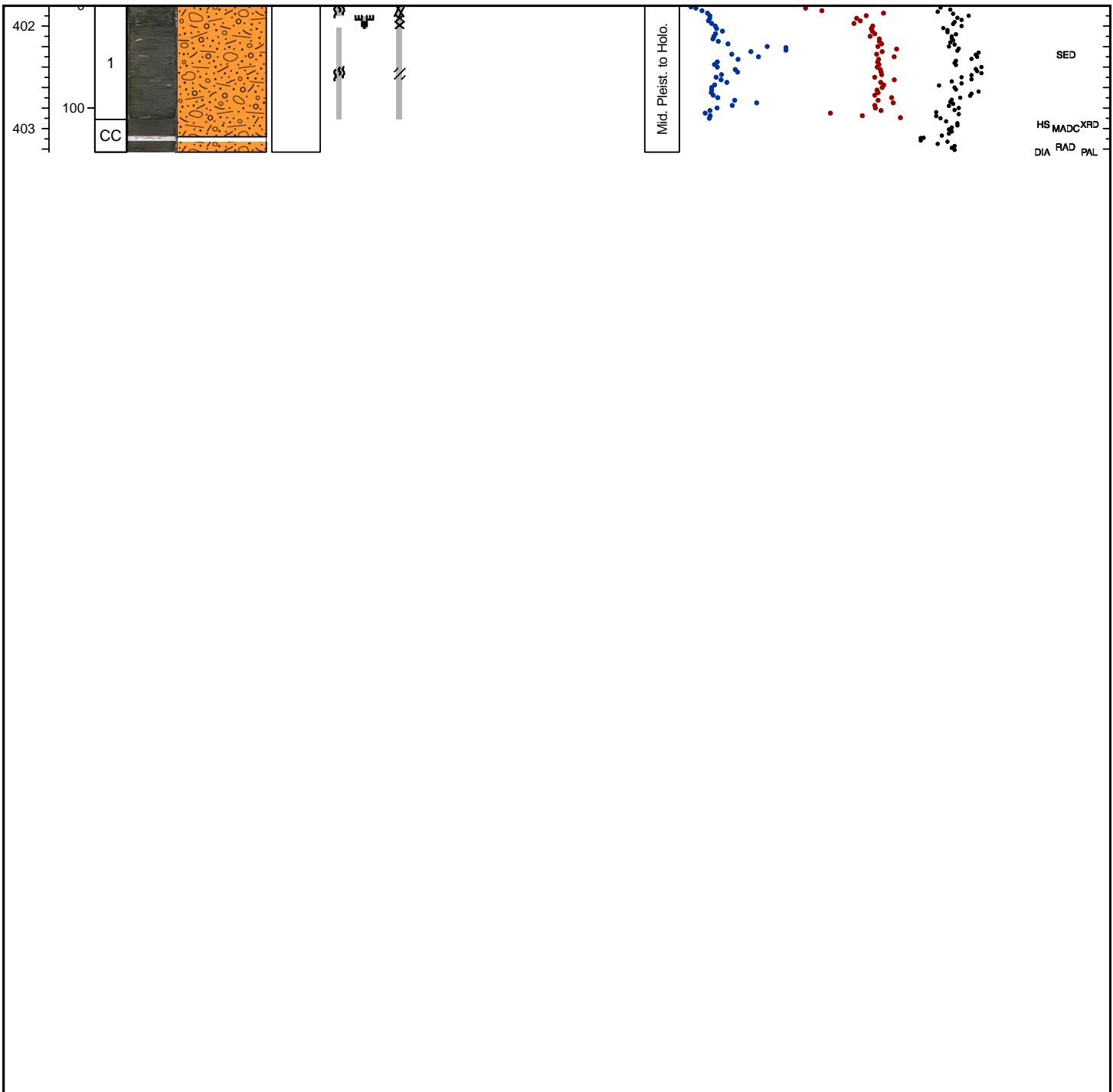
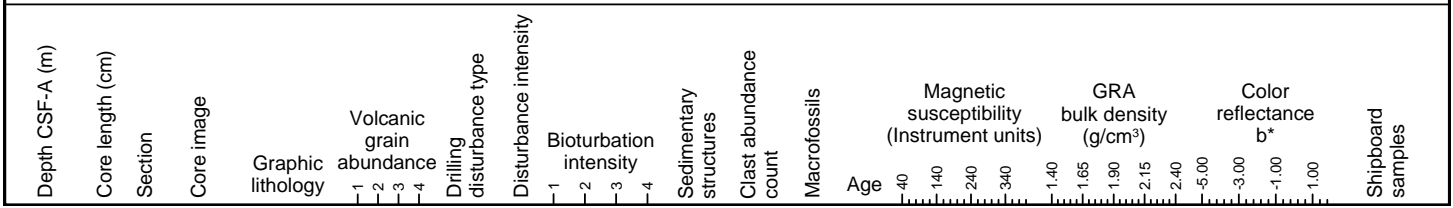
Very dark gray (N 3) silty clast-rich diamict is the major lithology. Very dark gray (N 3) silty clast-poor diamict is a minor lithology. Clast lithologies include sandstone, basalt, argillite, greywacke, siltstone, and rhyolite. Much of the core is disturbed moderately washed, and the lower half may have sunk in present. The bottom of the core contains only a washed sandstone pebble.



Hole 341-U1421A Core 52X, Interval 401.6-403.03 m (CSF-A)

CLAST-RICH DIAMICT

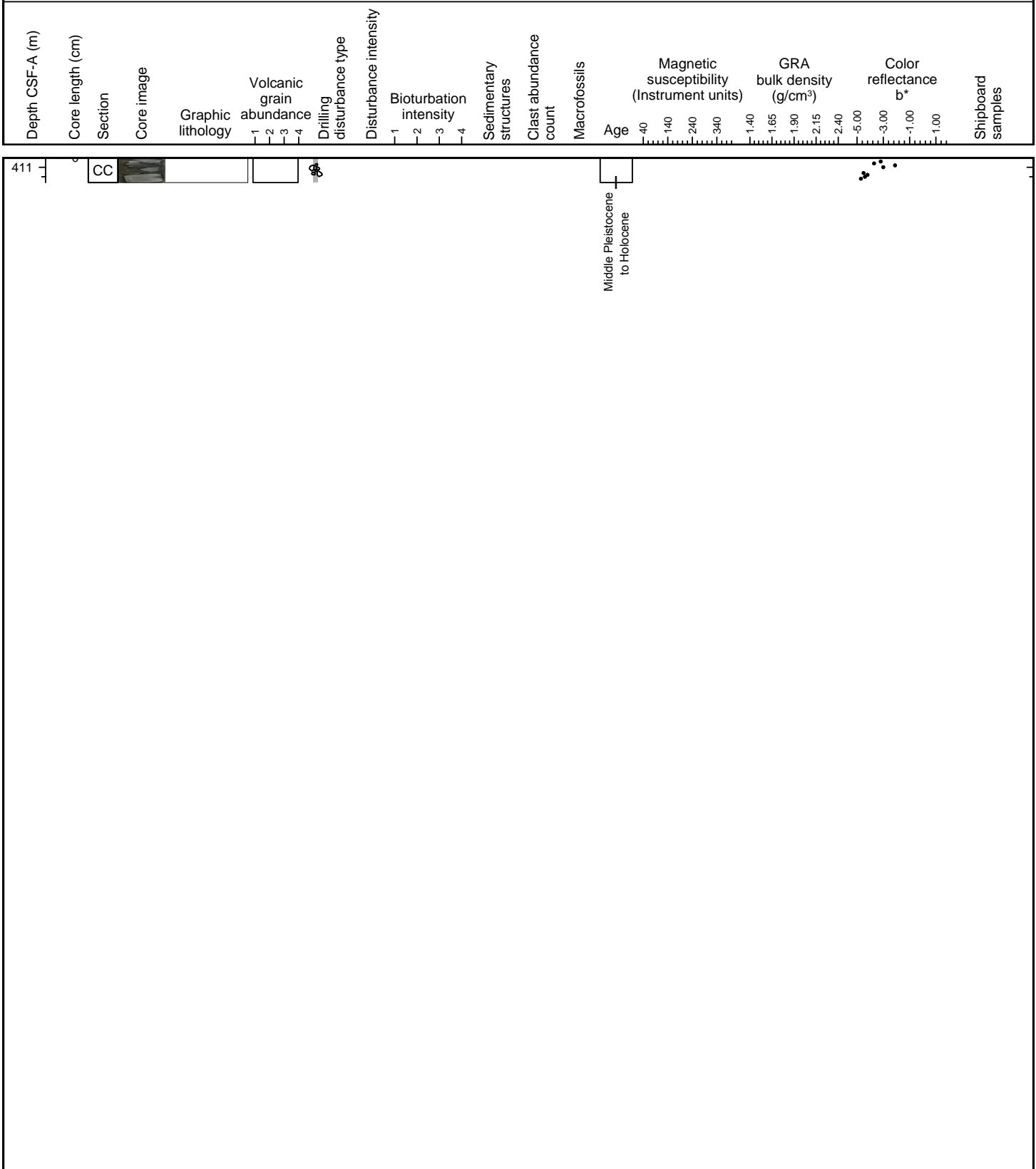
Very dark gray (N 3) silty clast-rich diamict with sand is the major lithology. Granules and pebbles include sandstone, siltstone, granite, basalt, rhyolite and argillite.



Hole 341-U1421A Core 53X, Interval 411.3-411.56 m (CSF-A)

NO MAJOR LITHOLOGY RECOVERED

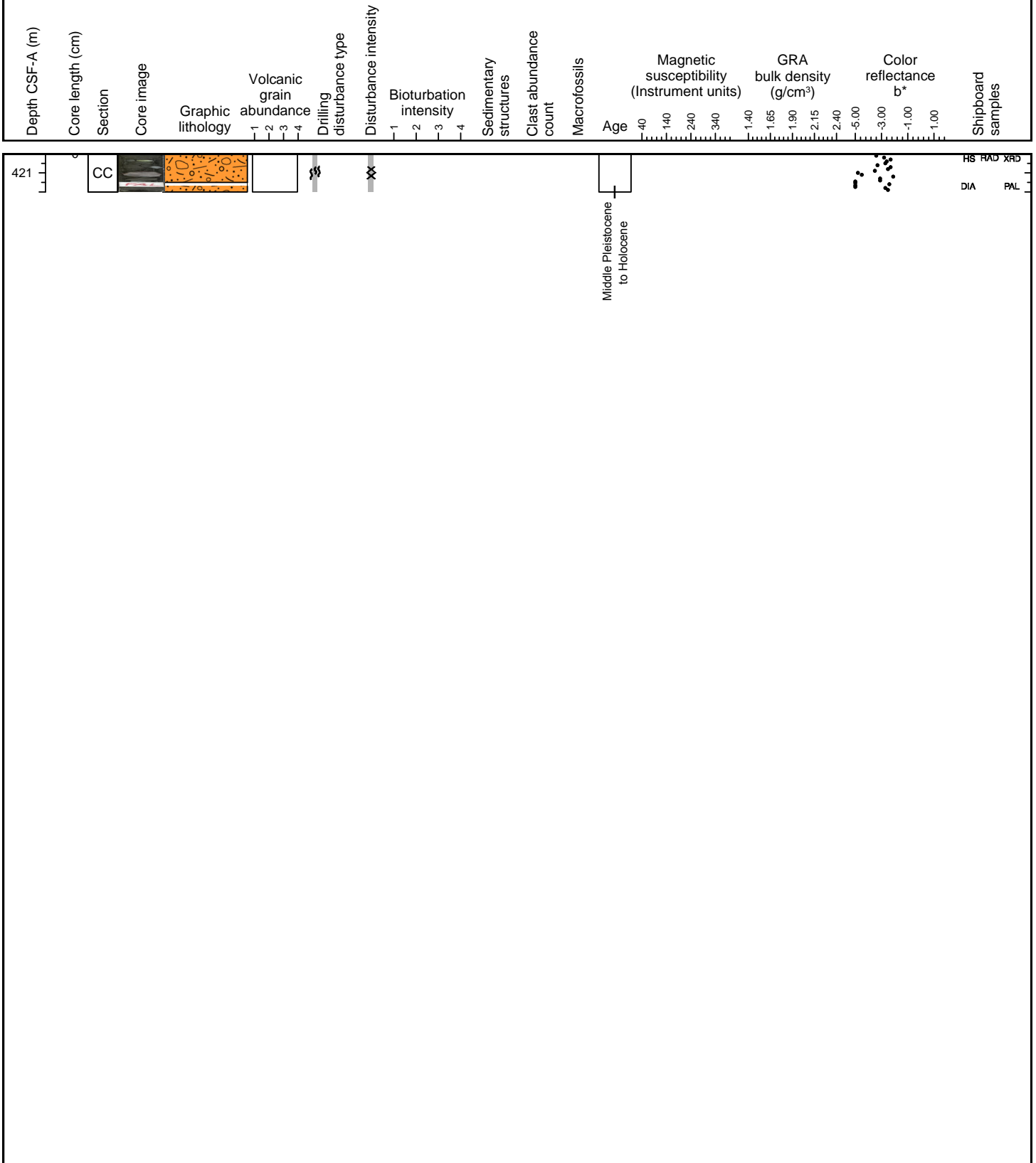
No major lithology was recovered. Washed gravel contains a little mud matrix and includes a drilled siltstone, and sandstone and argillite.



Hole 341-U1421A Core 54X, Interval 421.0-421.4 m (CSF-A)

CLAST-RICH DIAMICT

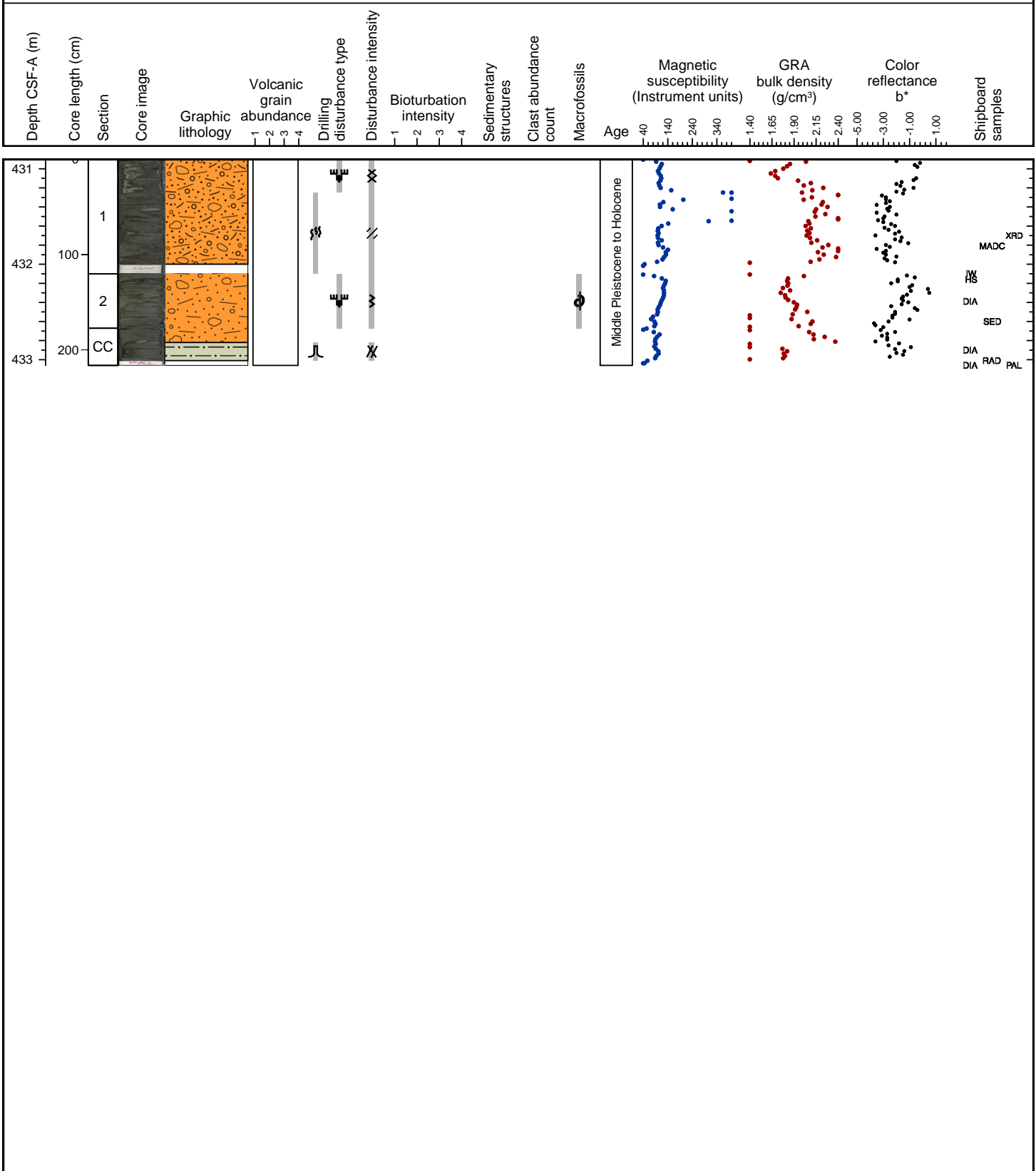
Very dark gray (N 3) silty clast-rich diamict is the major lithology. Granules and pebbles include sandstone, siltstone, basalt, rhyolite, metasandstone and argillite.



Hole 341-U1421A Core 55X, Interval 430.7-432.86 m (CSF-A)

CLAST-RICH DIAMICT, CLAST-POOR DIAMICT, MUD

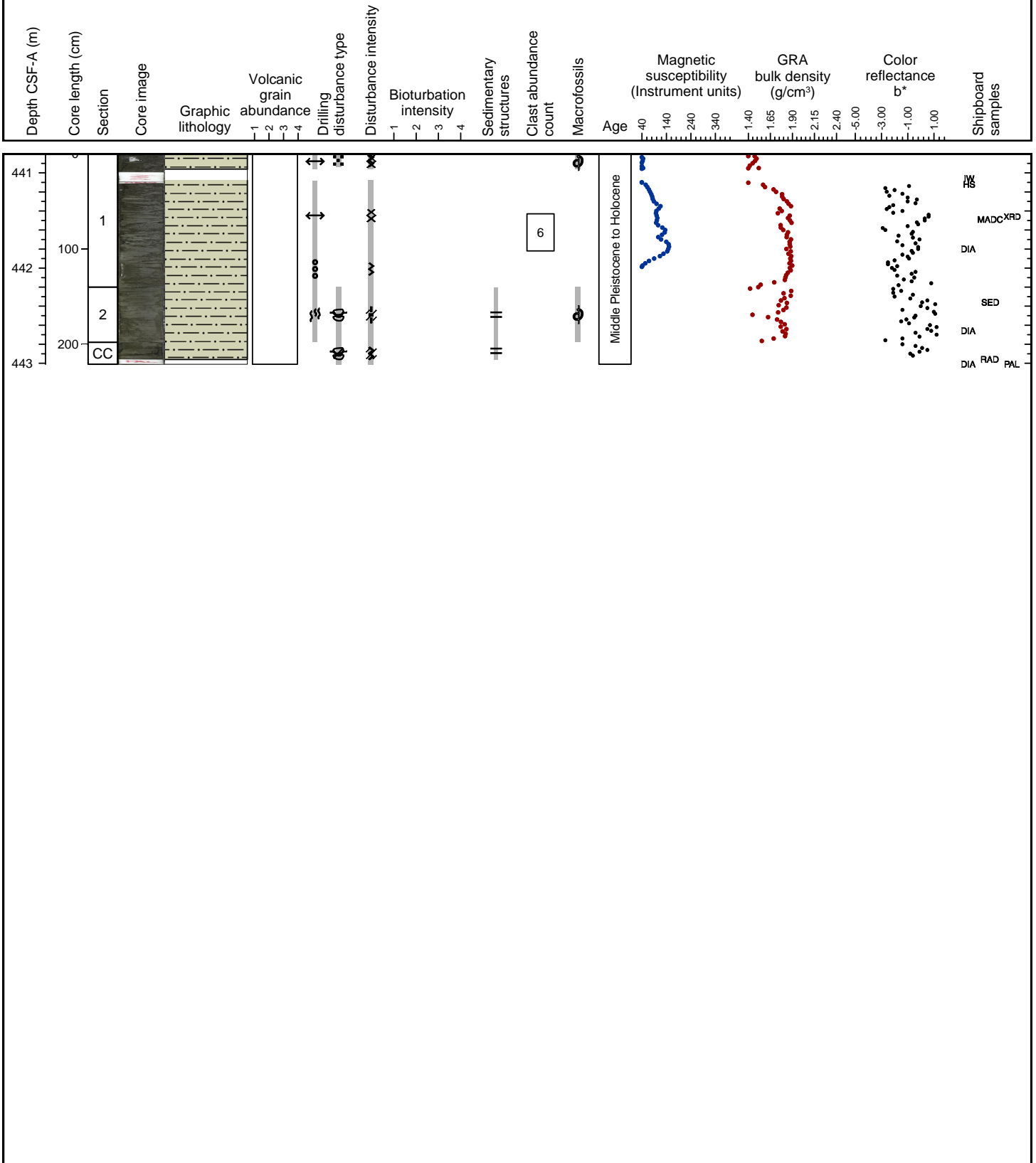
Very dark gray (N 3) silty clast-rich diamict is the major lithology. Clast lithologies include argillite, sandstone, basalt, granite and siltstone. Very dark gray (N 3) muddy clast-poor diamict and diatom bearing mud with dispersed clasts are the minor lithologies. Clast lithologies include siltstone, sandstone and basalt. Shell fragments are present in Section 2.



Hole 341-U1421A Core 56X, Interval 440.4-442.61 m (CSF-A)

MUD

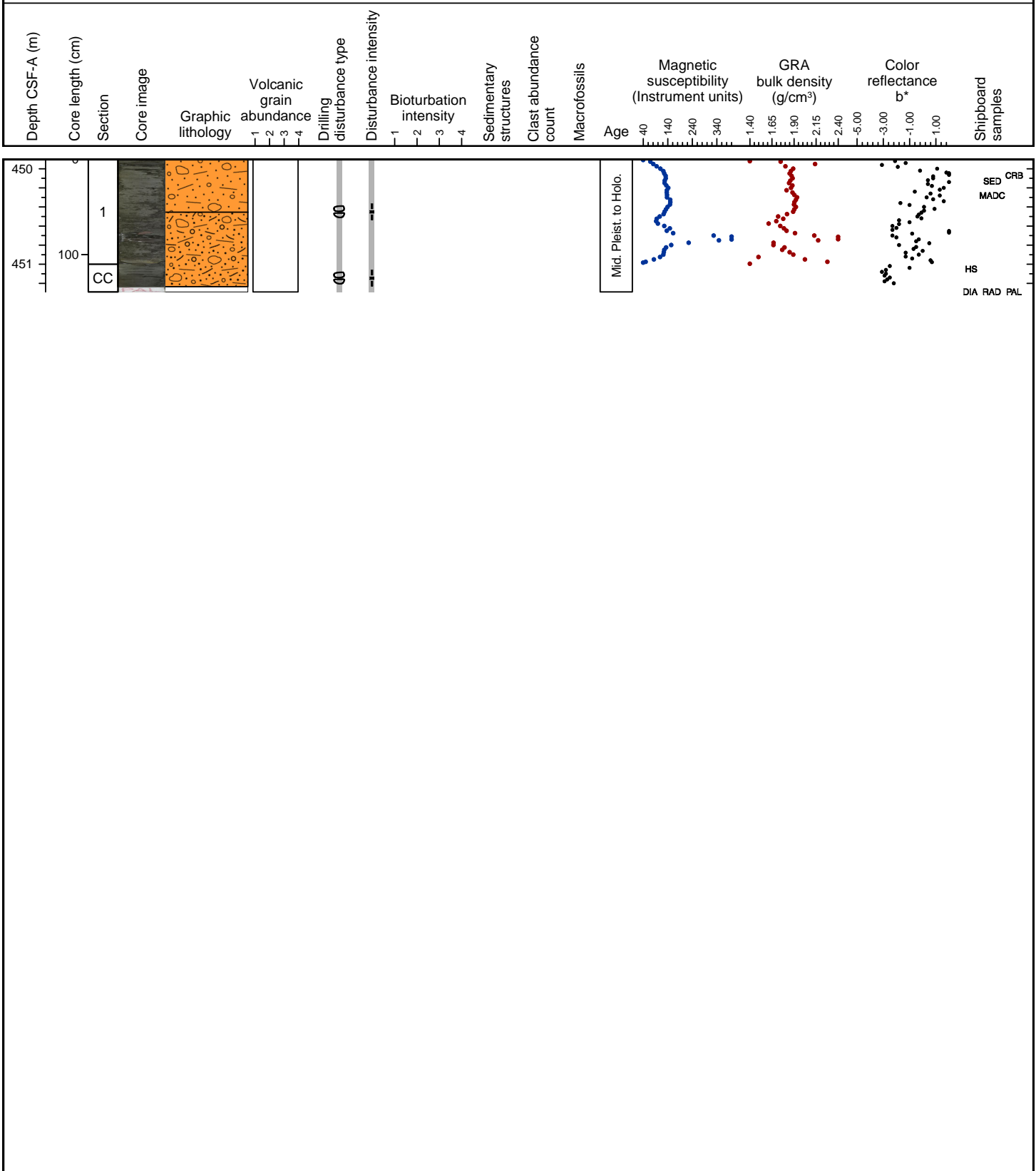
Dark gray (N 4) mud is the major lithology. This lithology is heavily disturbed by gas expansion. An interval of mud with dispersed clasts is present in Section 1. Clast lithologies include rhyolite, sandstone, and siltstone and all clasts are less than 5 mm. Dark greenish gray (10Y 4/1) diatom bearing mud is a minor lithology in Sections 1, 2, and CC. Parallel lamination is present (largely obscured by core disturbance) in some diatom bearing mud intervals in Sections 2 and CC. Shell fragments are present in Sections 1 and 2.



Hole 341-U1421A Core 57X, Interval 450.1-451.49 m (CSF-A)

CLAST-RICH DIAMICT, CLAST-POOR DIAMICT

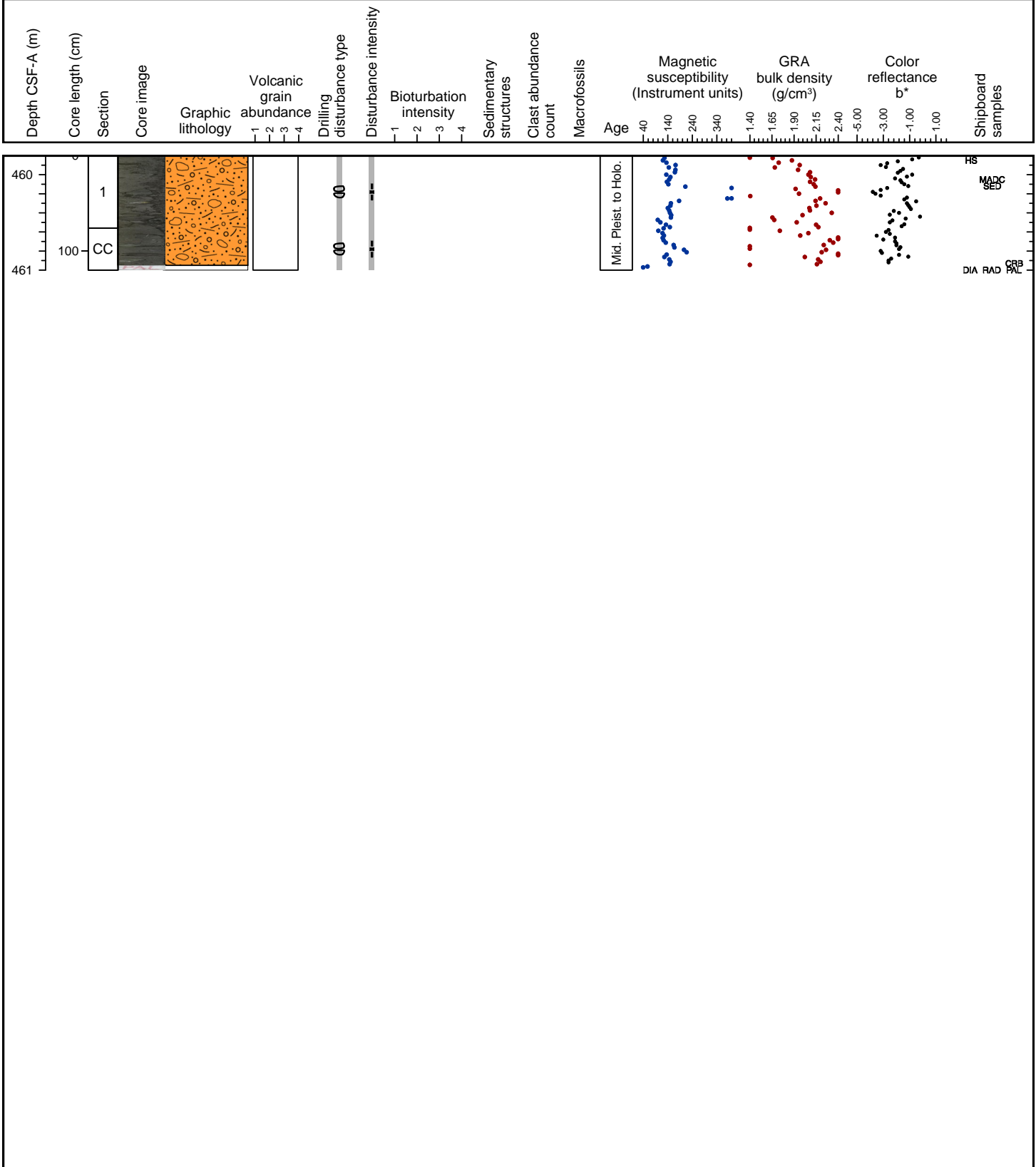
Dark gray (N 4) clast-rich diamict with a sandy mud matrix is the major lithology. Dark greenish gray (10Y 4/1) clast-poor diamict is the minor lithology. The muddy matrix of the clast-poor diamict contains some diatoms and sponge spicules. Clasts of granule and pebble sizes include basalt, sandstone, metasediment, granitoid, gneiss(?), diorite(?) and rhyolite.



Hole 341-U1421A Core 58X, Interval 459.8-461.0 m (CSF-A)

CLAST-RICH DIAMICT

Dark gray (N 4) clast-rich diamict with a sandy mud matrix is the major lithology. Clasts of granule and pebble sizes include basalt, sandstone, metasediment, argillite, quartz, siltstone, granitoid, rhyolite, mudstone with structures and vein quartz.

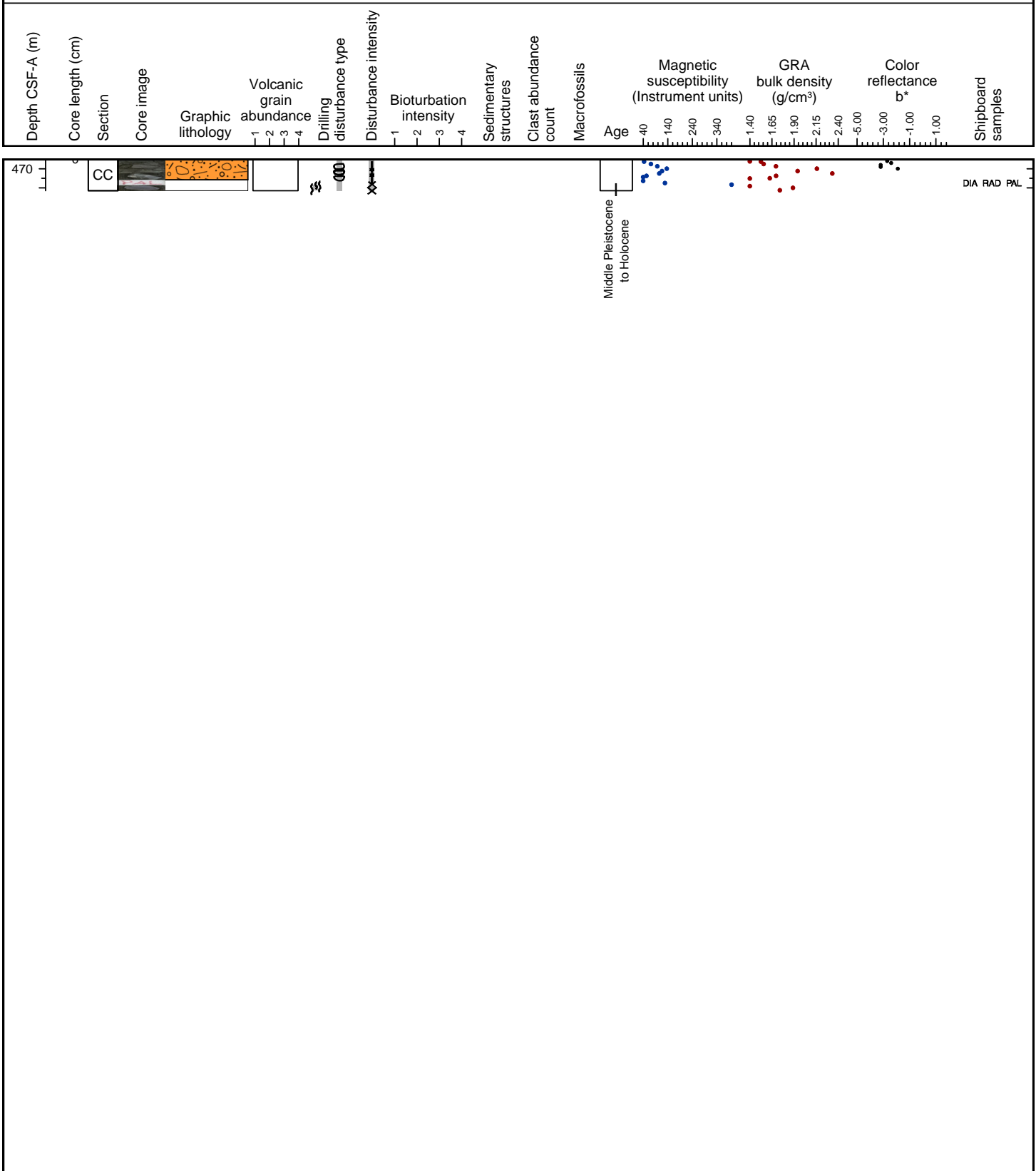




Hole 341-U1421A Core 59X, Interval 469.5-469.83 m (CSF-A)

CLAST-RICH DIAMICT, MINOR LITHOLOGY NOT RECOVERED

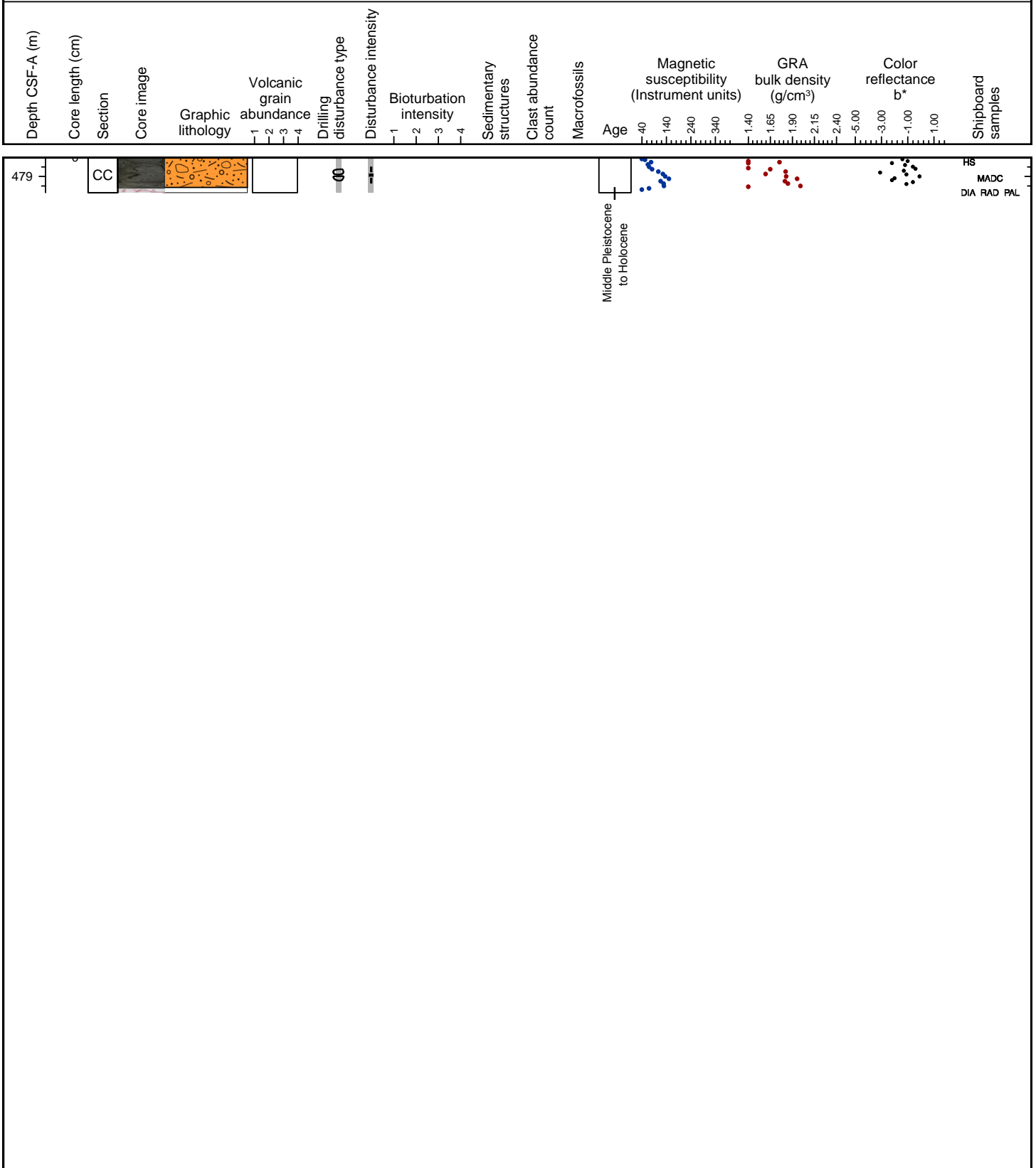
Dark gray (N 4) clast-rich diamict with a sandy mud matrix is the major lithology. Clasts of granule and pebble sizes include basalt, metasandstone, granitoid, sandstone, rhyolite and very fine sandstone with quartz vein. A minor lithology was not recovered due to wash during drilling. However, a rock of very-fine sandstone was found.



Hole 341-U1421A Core 60X, Interval 479.2-479.57 m (CSF-A)

CLAST-POOR DIAMICT

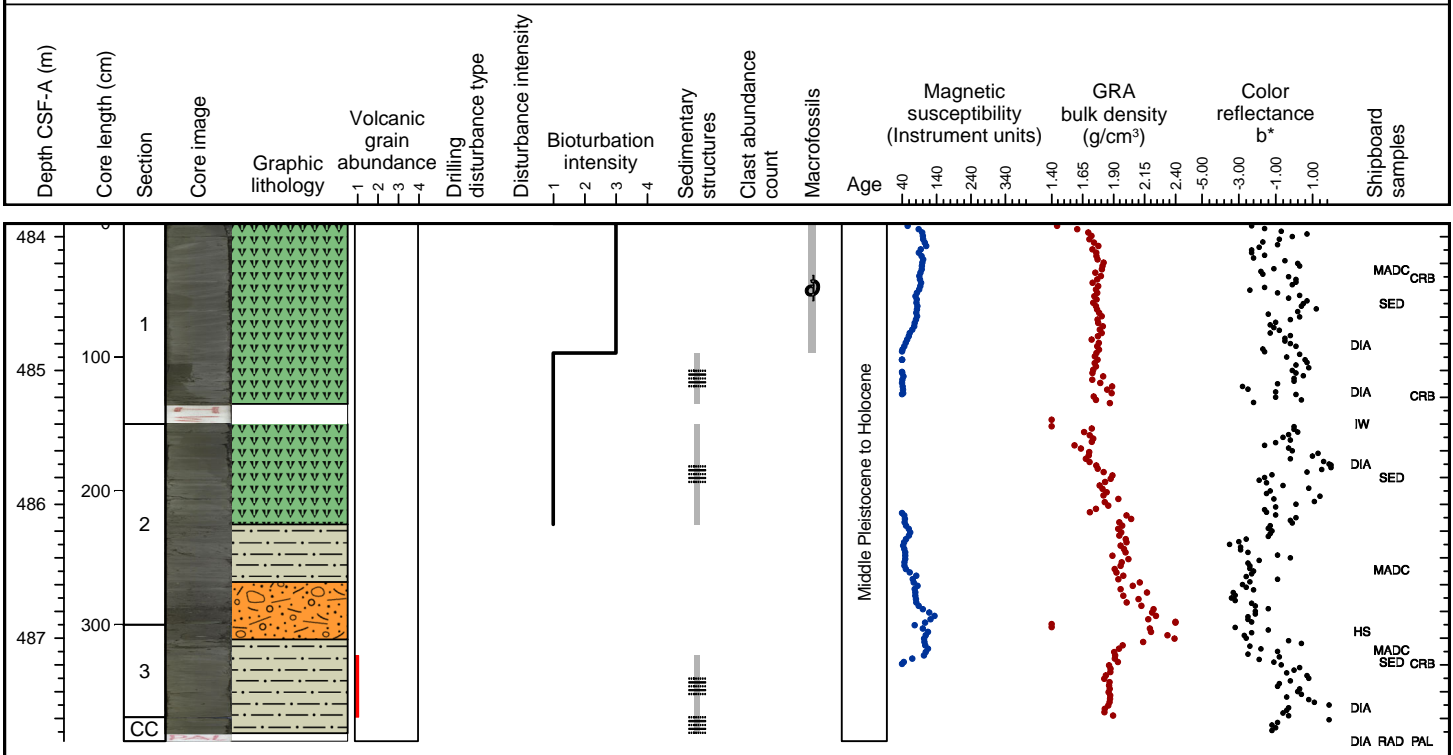
Dark gray (N 4) clast-poor diamict with a sandy mud matrix is the major lithology. Clasts of granule and pebble sizes include sandstone, basalt, granitoid, greenstone, rhyolite and vein quartz.



Hole 341-U1421A Core 61X, Interval 484.3-488.17 m (CSF-A)

DIATOM OOZE, MUD, CLAST-RICH DIAMICT

Dark greenish gray (10Y 4/1), partly color banded diatom ooze is the major lithology. Dark greenish gray (10Y 4/1), color banded diatom bearing mud, dark gray (N 4) to very dark gray (N 3) mud, and very dark gray (N 3) clast-rich diamict with a sandy mud matrix are minor lithologies. Laminations (mm-scale) are present in the lower part of Section 1 and in the diatom bearing mud. Trace amounts of ash occur in Section 3. The diamict in Section 2 is overlain by a mud with (slurry) flow structures. Bioturbation is slight to heavy in the diatom ooze intervals. Clast lithologies in the diamict include siltstone, sandstone and granitoid. Magnetic susceptibility measurements fall below the axis in Sections 1 and 2.

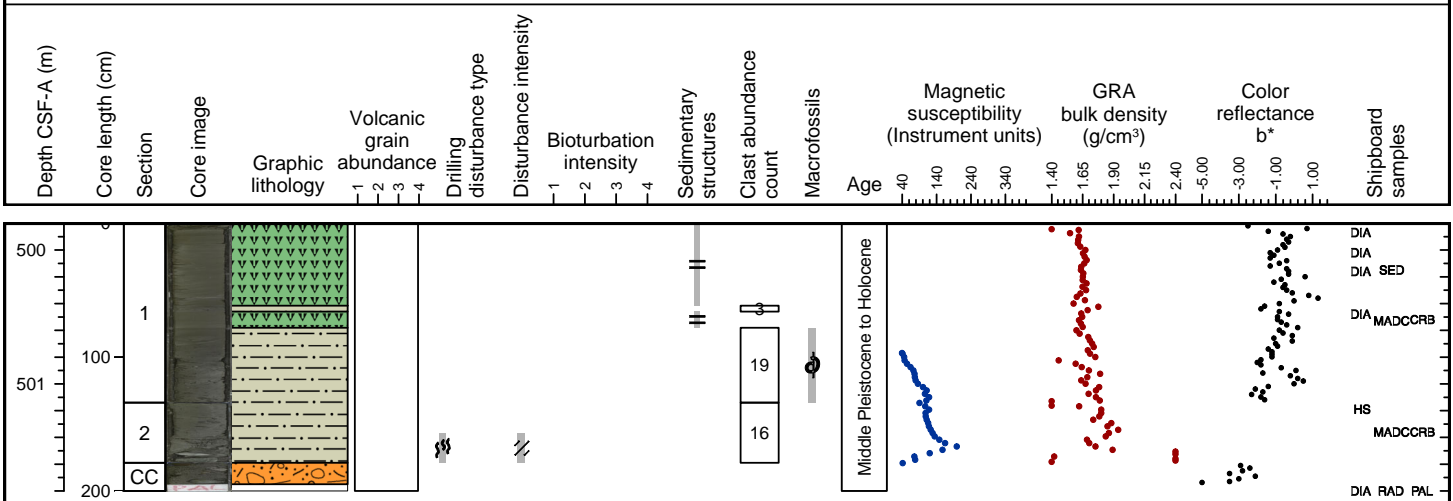




Hole 341-U1421A Core 63X, Interval 500.0-502.0 m (CSF-A)

DIATOM OOZE, MUD, CLAST-RICH DIAMICT

Dark greenish gray (10Y 4/1) finely laminated diatom ooze is the major lithology. Dark gray (N 4) mud with dispersed clasts (mainly granules of siltstone and granitoids) and very dark gray (N 3) clast-rich diamict are minor lithologies. Magnetic susceptibility measurements fall below the axis in Section 1.

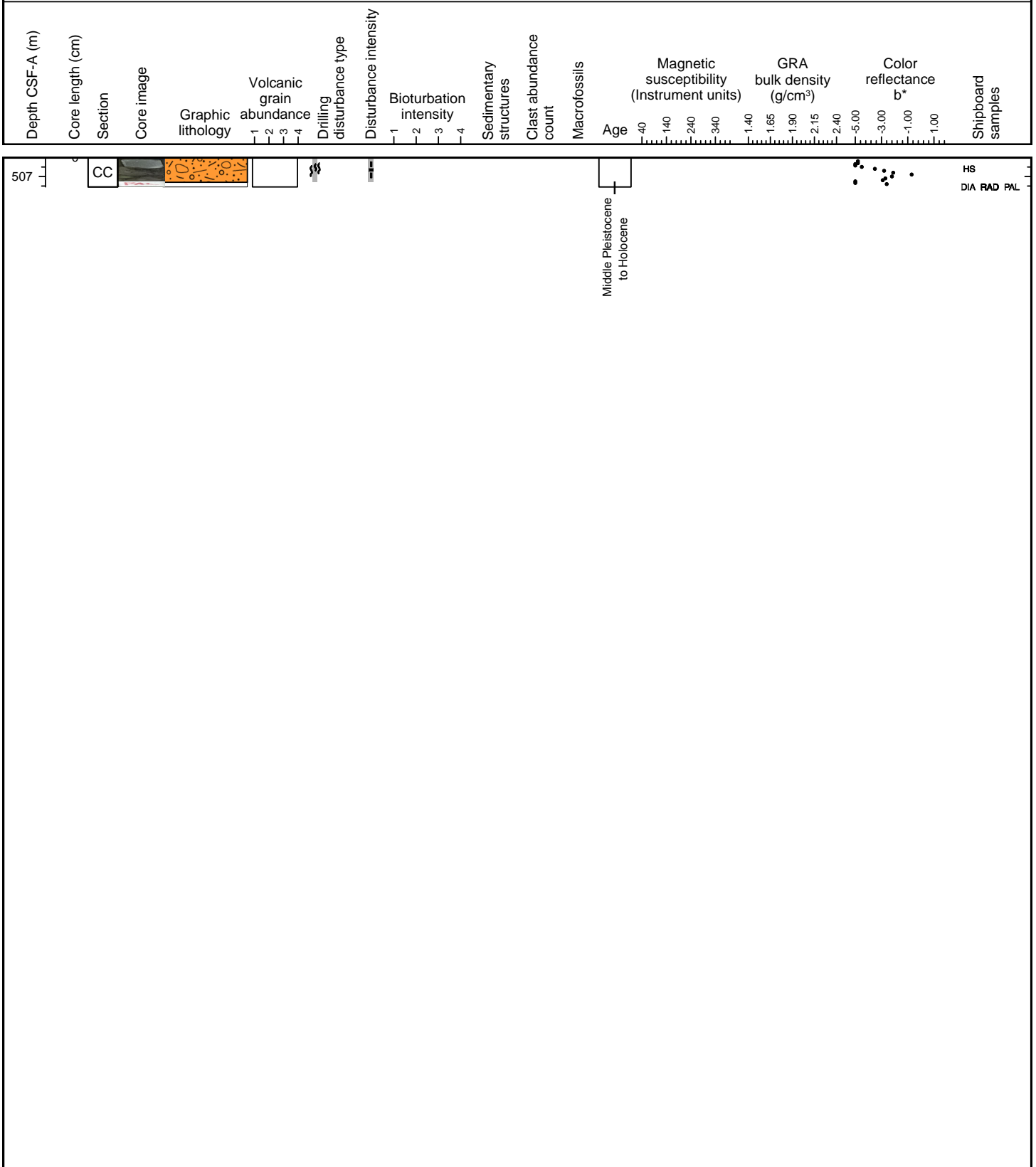


U1421A-64X NO RECOVERY

Hole 341-U1421A Core 65X, Interval 506.8-507.11 m (CSF-A)

CLAST-RICH DIAMICT

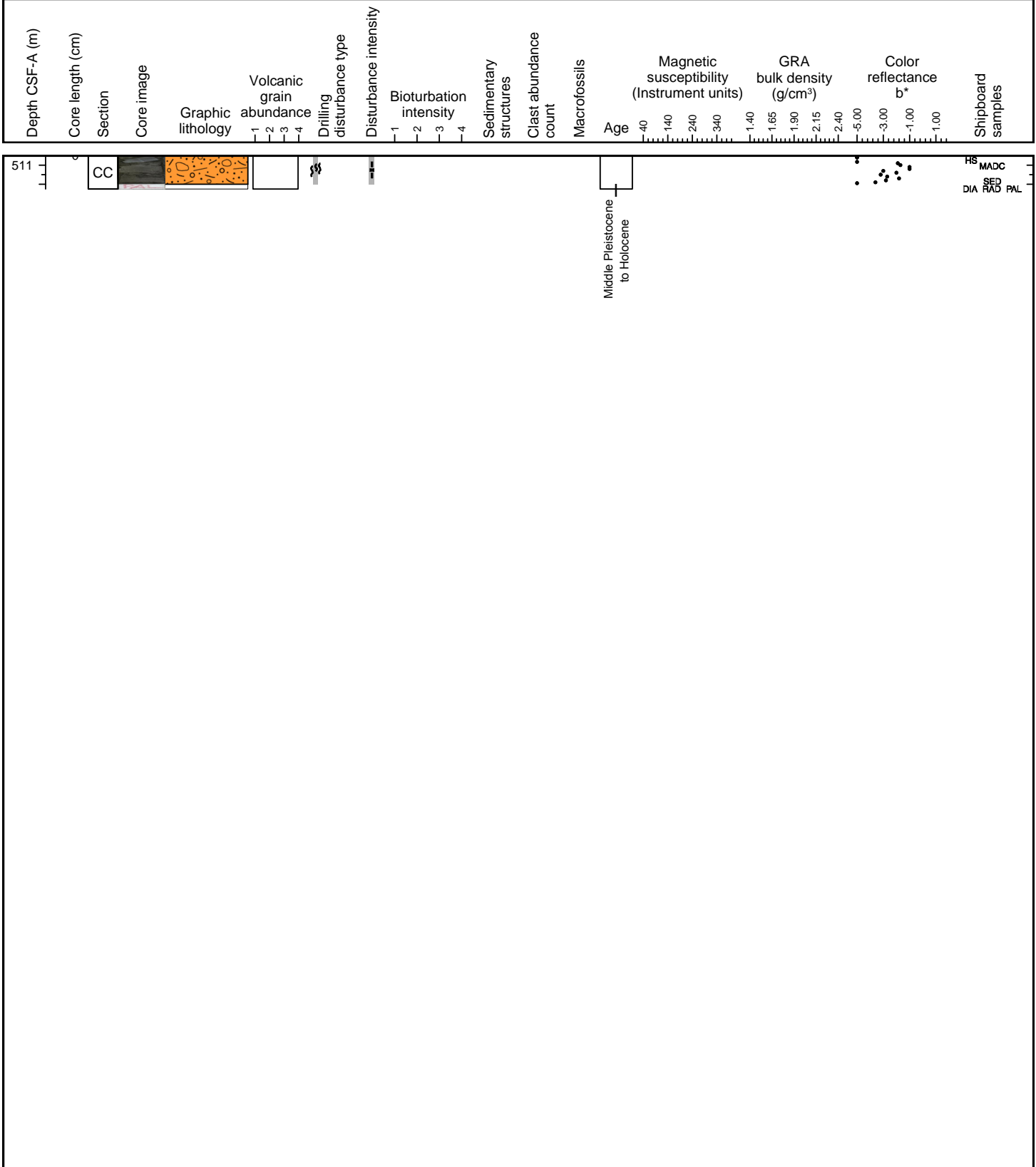
Very dark gray (N 3) silty clast-rich diamict is the major lithology. Clast lithologies include basalt (with a cored cobble at least 13 cm in diameter), sandstone, and siltstone.



Hole 341-U1421A Core 66X, Interval 510.7-511.05 m (CSF-A)

CLAST-RICH DIAMICT

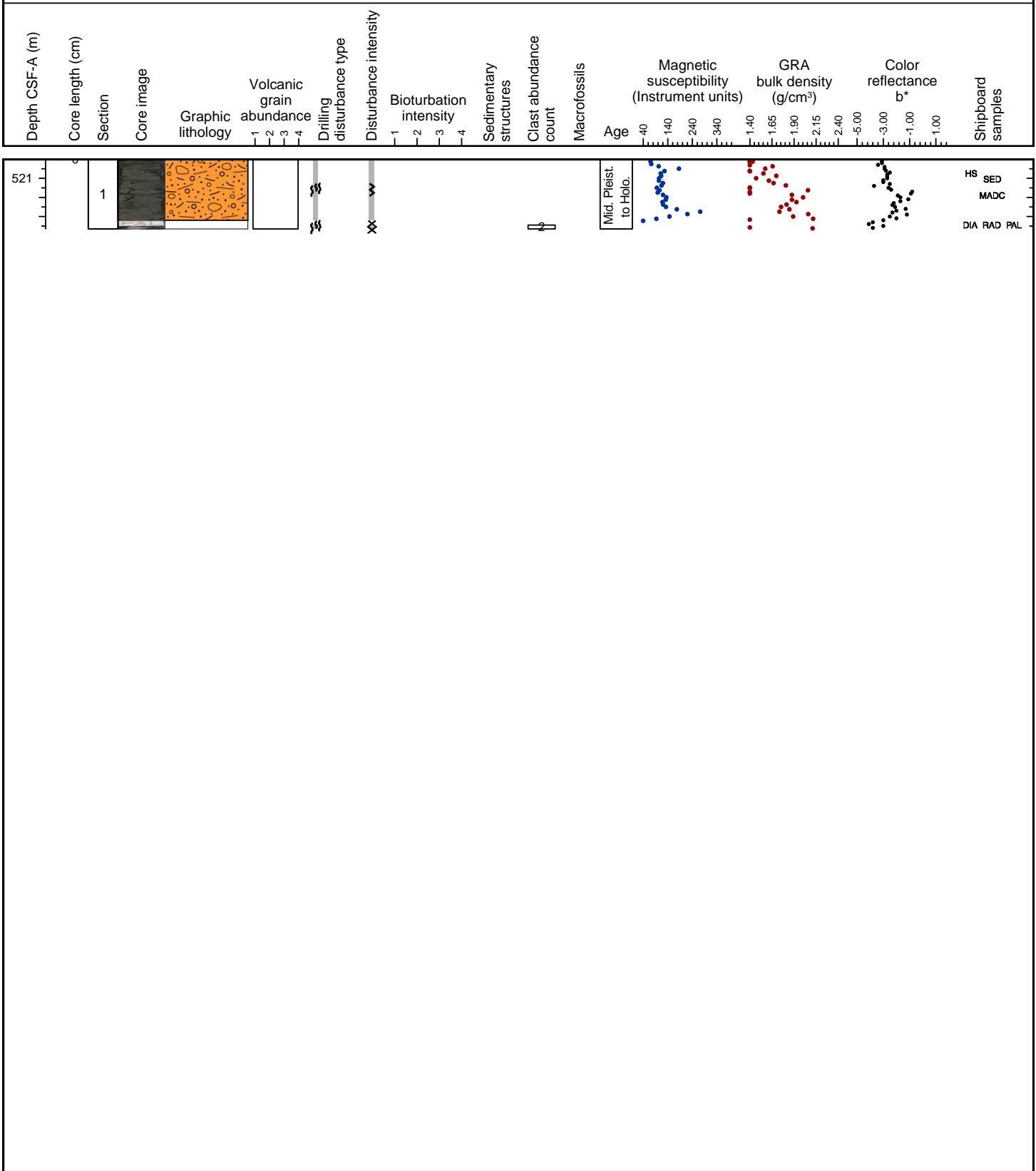
Very dark gray (N 3) silty clast-rich diamict is the major lithology. Clast lithologies include siltstone (with a 7 cm cobble), basalt, sandstone, and granitoid.



Hole 341-U1421A Core 67X, Interval 520.4-521.13 m (CSF-A)

CLAST-RICH DIAMICT, MINOR LITHOLOGY NOT RECOVERED

Very dark gray (N 3) silty clast-rich diamict is the major lithology. Clast lithologies include basalt, rhyolite, greywacke, siltstone, sandstone, argillite, quartz vein, and gneiss. The minor lithology below the PAL sample was washed away during drilling, however two sandstone pebbles remain.

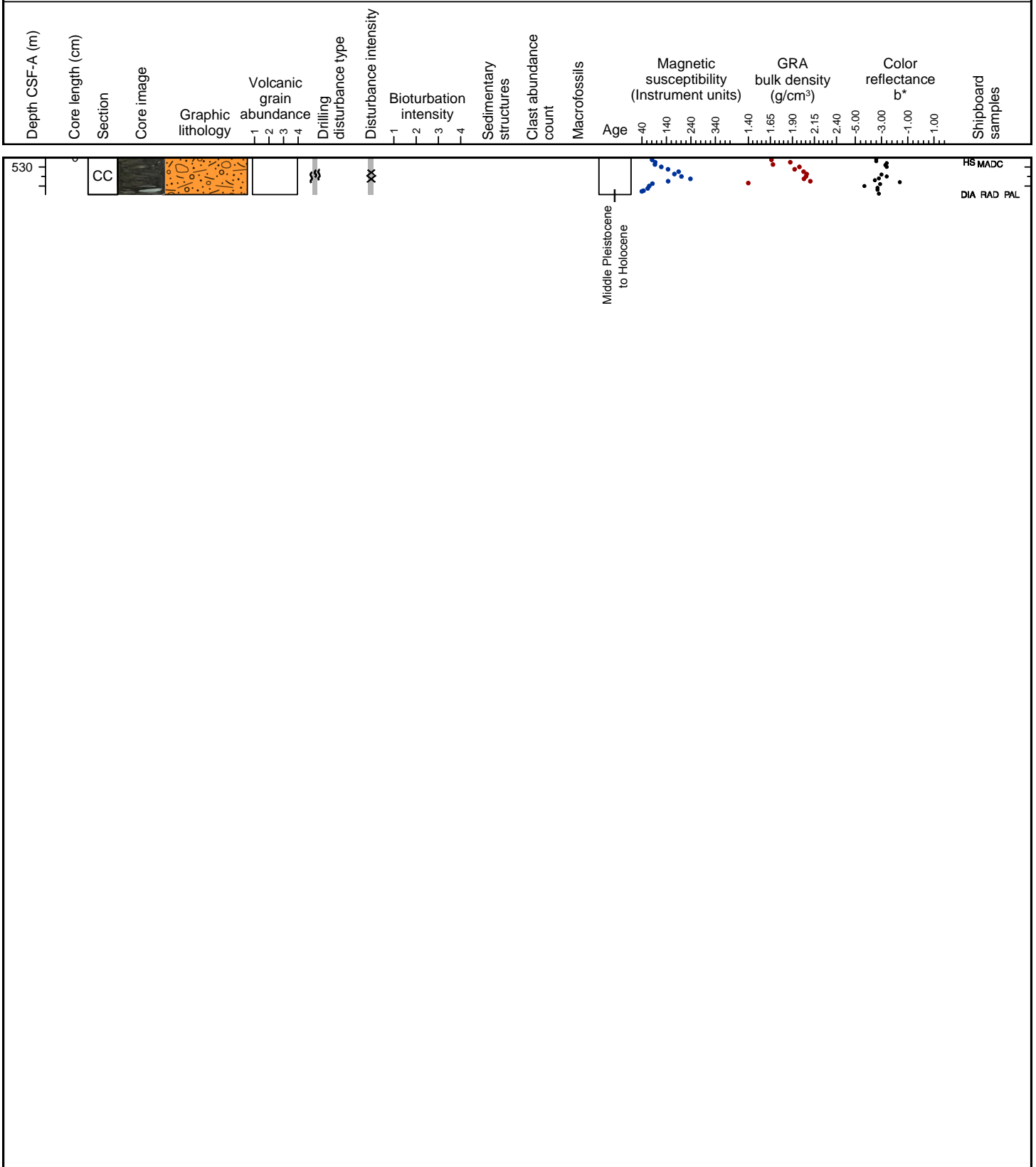




Hole 341-U1421A Core 68X, Interval 530.1-530.49 m (CSF-A)

CLAST-RICH DIAMICT

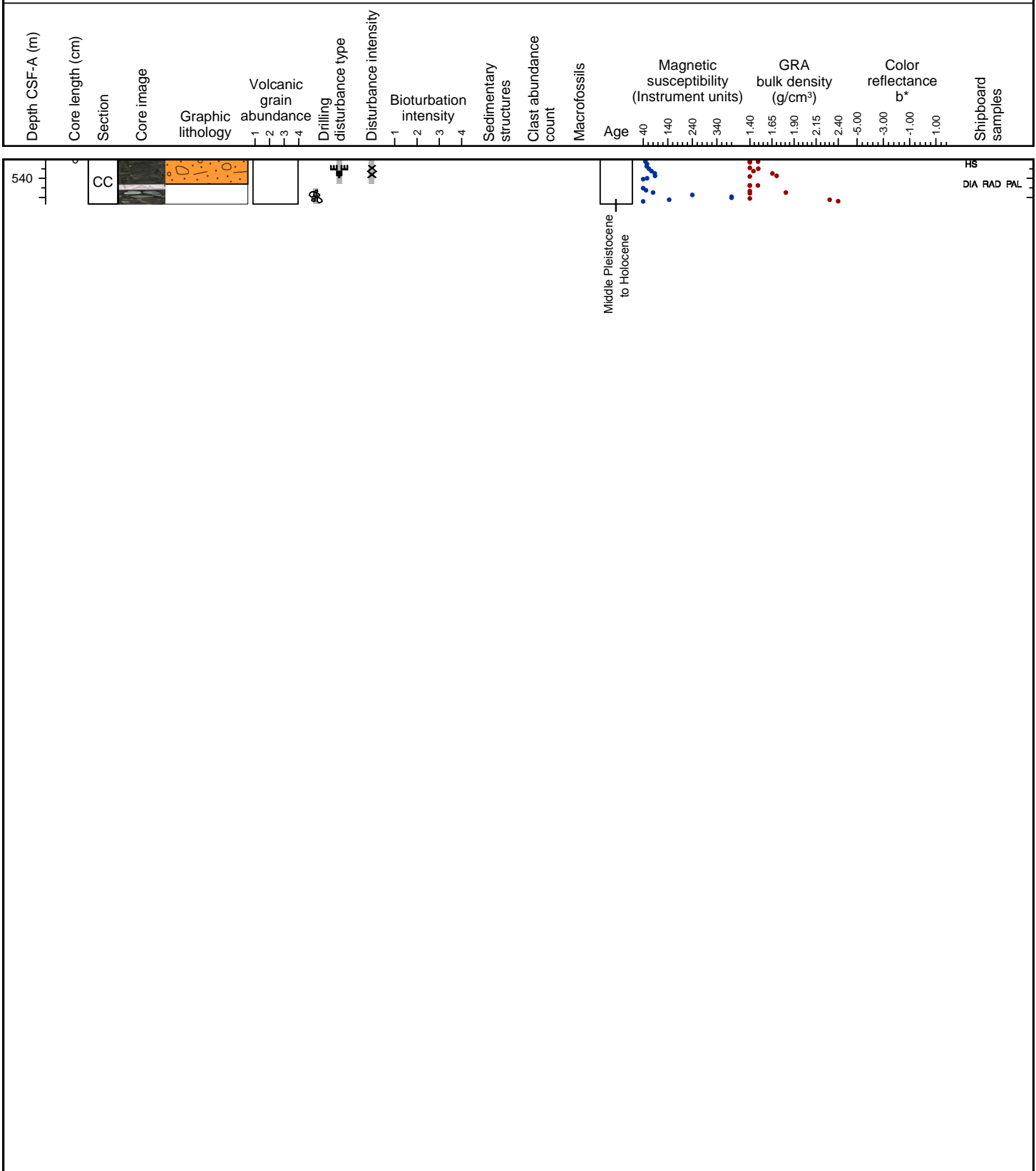
Very dark gray (N 3) silty clast-rich diamict is the major lithology. Clast lithologies include sandstone, basalt, argillite, greywacke and siltstone. The core has heavily washed drilling disturbance.



Hole 341-U1421A Core 69X, Interval 539.8-540.27 m (CSF-A)

CLAST-RICH DIAMICT, NO MINOR LITHOLOGY RECOVERED

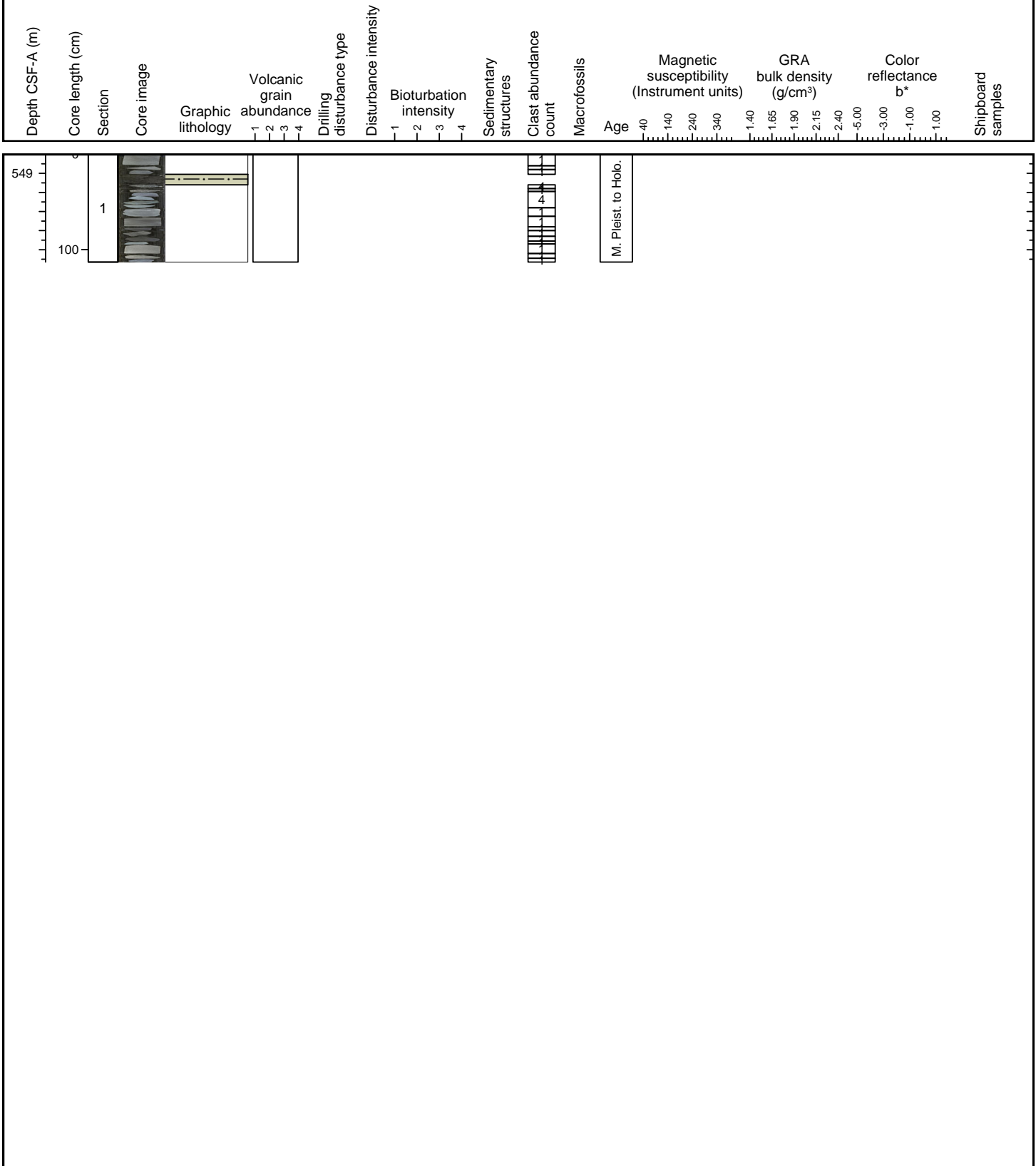
Very dark gray (N 3) silty clast-rich diamict is the major lithology. Clast lithologies include siltstone, vein quartz and basalt. Below the PAL sample no minor lithology was recovered. The lower part of the core contains washed gravel of gneiss, basalt and sandstone.



Hole 341-U1421A Core 70X, Interval 549.2-550.33 m (CSF-A)

MAJOR LITHOLOGY NOT RECOVERED, MUD

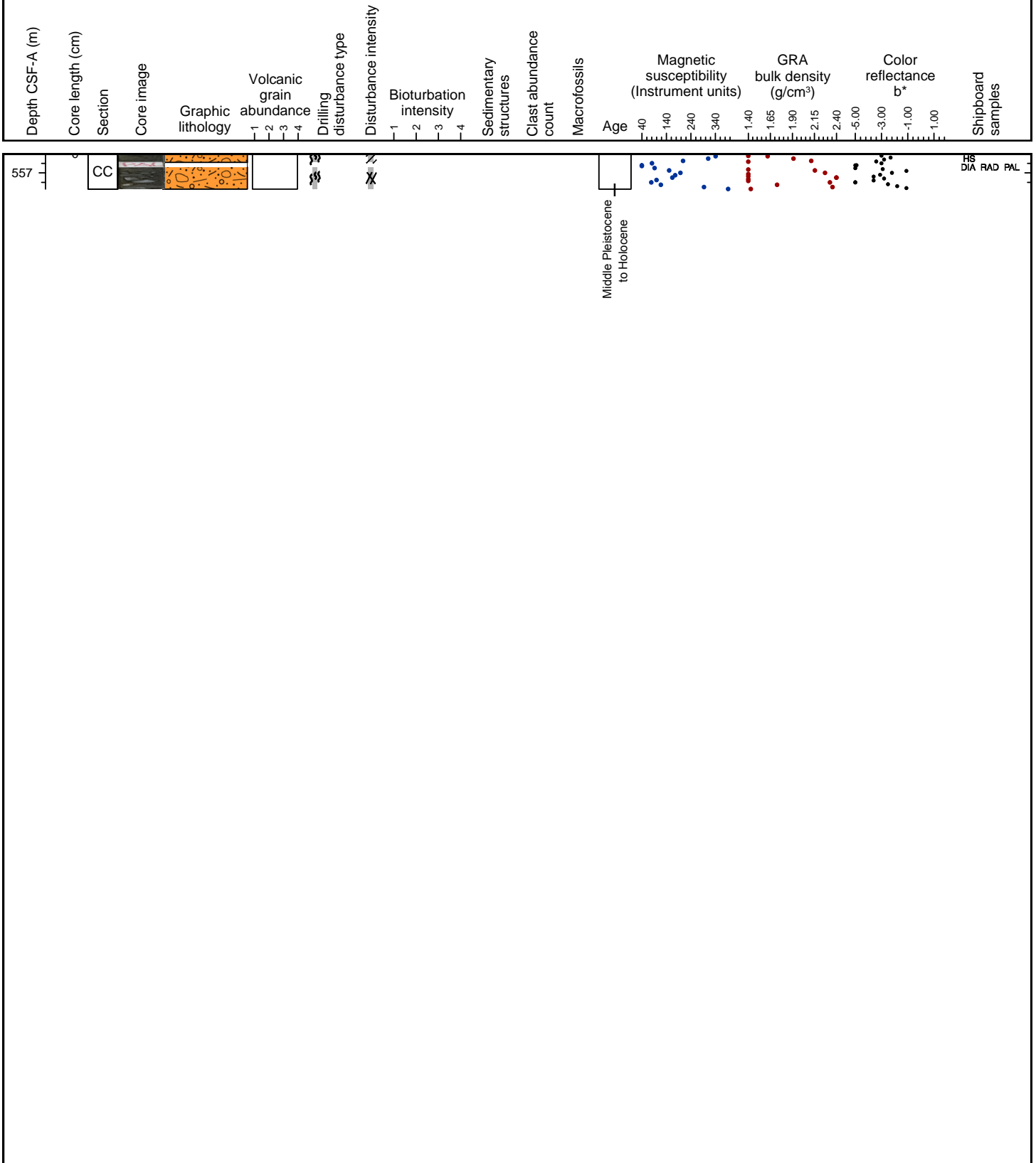
No major lithology recovered. Matrix material has been washed away while drilling. Clast lithologies include sandstone, siltstone, gabbro, rhyolite and basalt. Very dark gray (N 3) mud is the minor lithology.



Hole 341-U1421A Core 71X, Interval 557.2-557.57 m (CSF-A)

CLAST-RICH DIAMICT

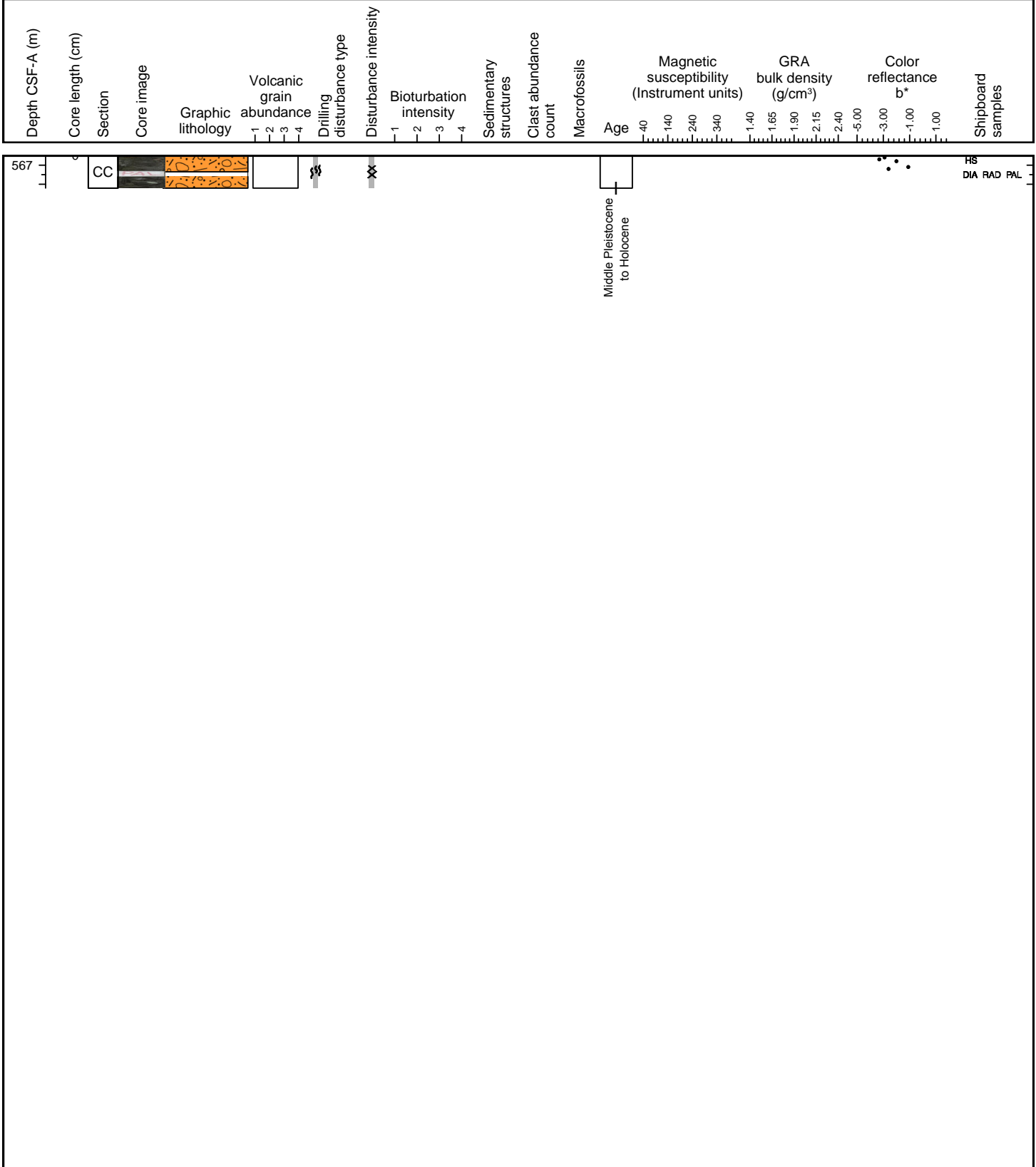
Very dark gray (N 3) silty clast-rich diamict is the major lithology. Clast lithologies include basalt, siltstone, rhyolite, sandstone, arkosic sandstone, and argillite.



Hole 341-U1421A Core 72X, Interval 566.9-567.24 m (CSF-A)

CLAST-RICH DIAMICT

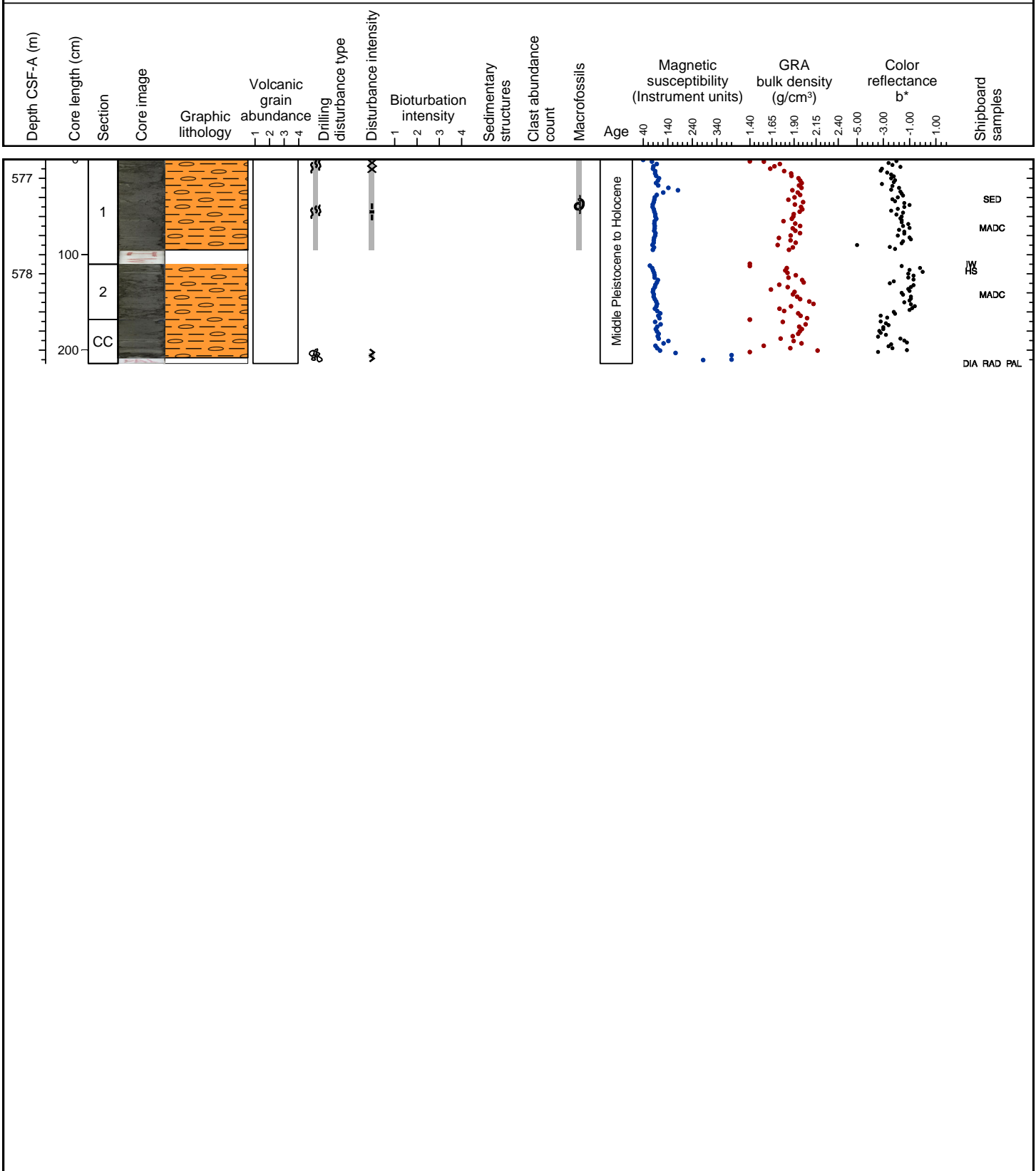
Dark gray (N 4) clast-rich diamict with granules and pebbles (up to 3 cm) of siltstone, greenstone, and rhyolite is the only lithology. This core is moderately to highly disturbed due to washing.



Hole 341-U1421A Core 73X, Interval 576.6-578.74 m (CSF-A)

INTERBEDDED MUD AND CLAST-POOR DIAMICT

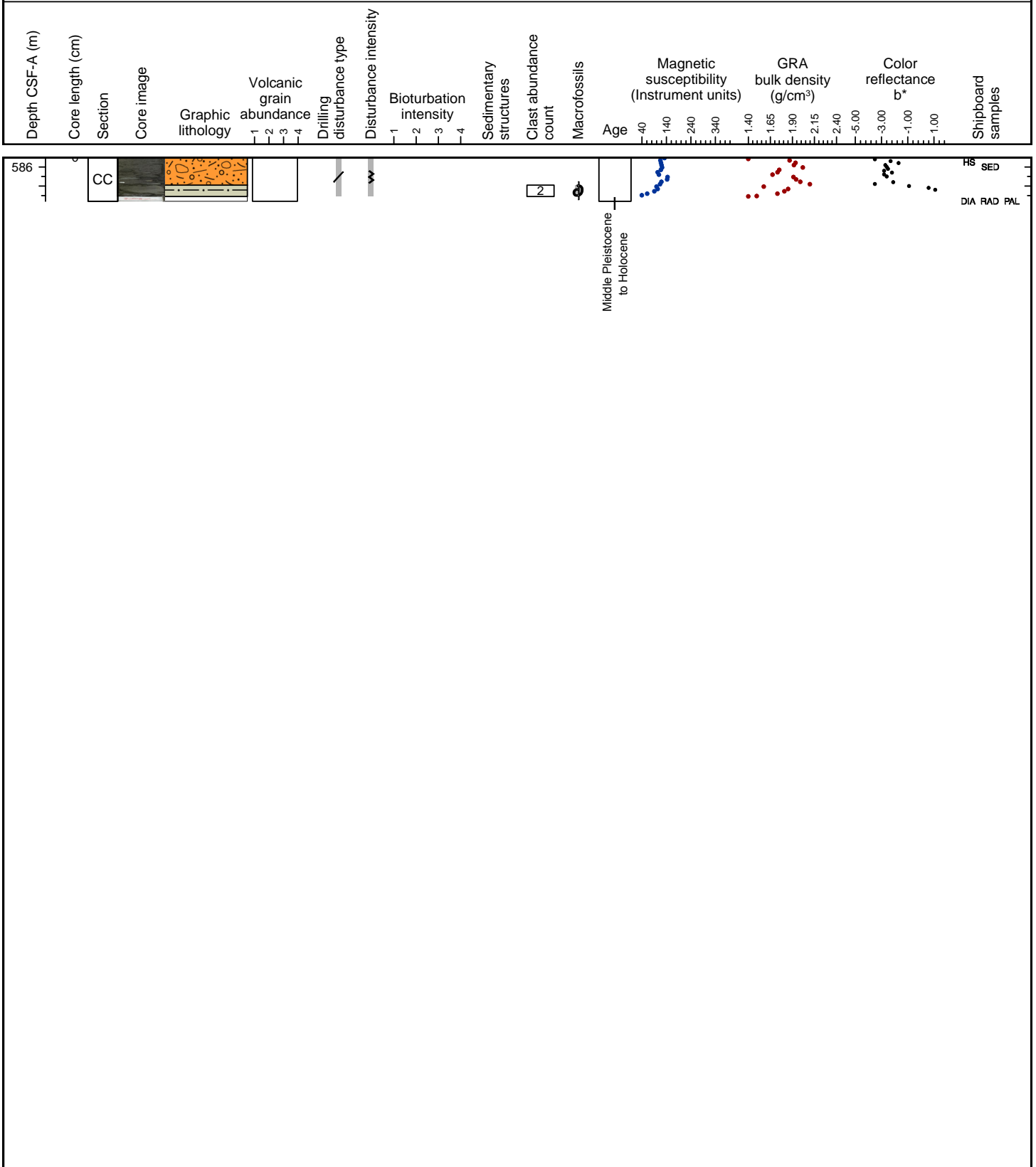
Dark gray (N 4) clast-poor diamict with a sandy mud matrix is interbedded with dark greenish gray (10Y 4/1) mud. The mud laminae and beds (up to 4 cm thick) are irregularly shaped. Granules and pebbles of siltstone, sandstone, greenstone, and granitoid are present.



Hole 341-U1421A Core 74X, Interval 586.3-586.76 m (CSF-A)

CLAST-RICH DIAMICT, MUD

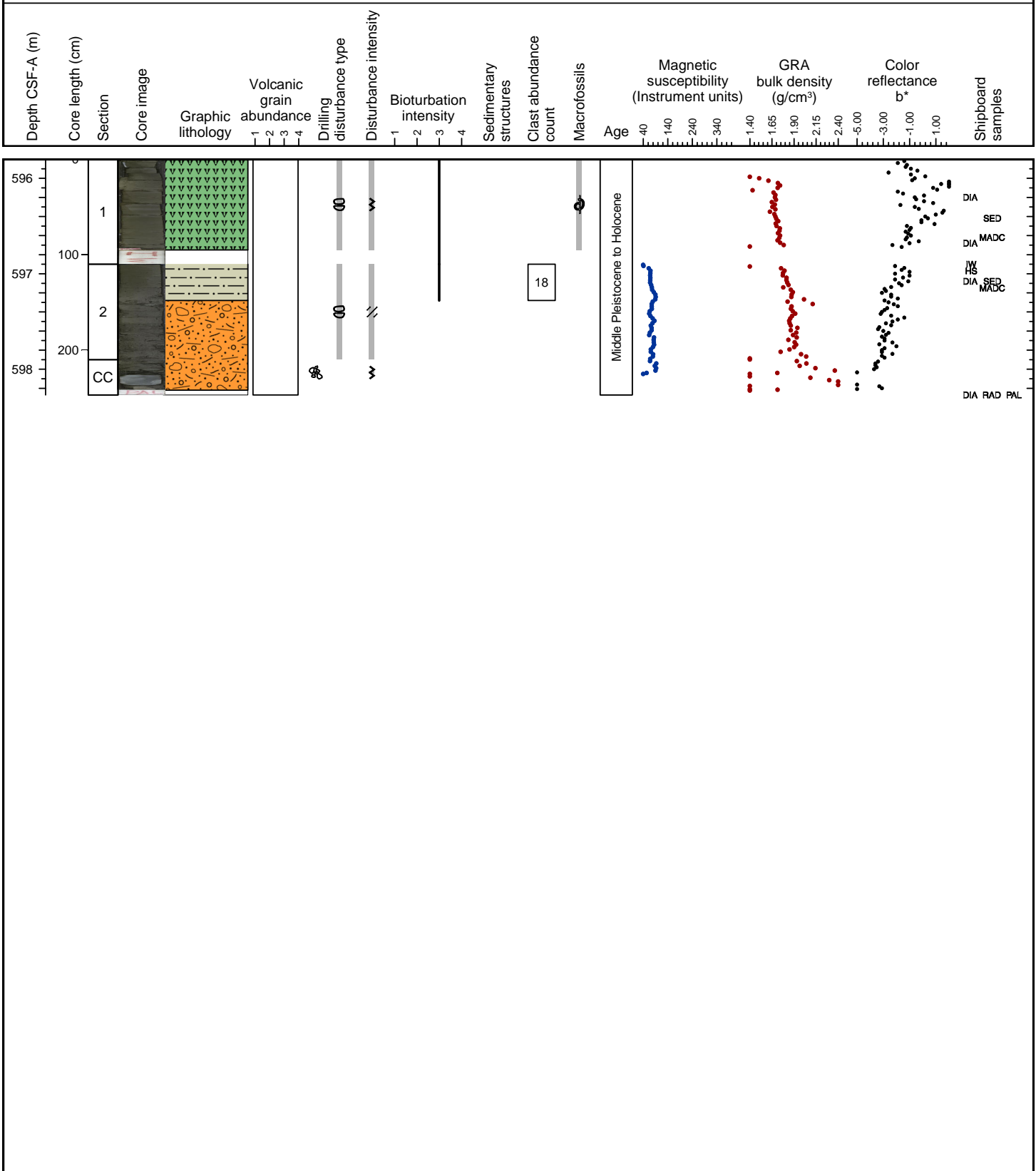
Dark gray (N 4) clast-rich diamict with granules and pebbles (up to 3 cm) of siltstone, greenstone, and rhyolite is the major lithology. Dark greenish gray (10Y 4/1) mud with dispersed clasts is the minor lithology. Shell fragments are present in the lower part of the core.



Hole 341-U1421A Core 75X, Interval 596.0-598.47 m (CSF-A)

CLAST-RICH DIAMICT, DIATOM OOZE, MUD

Dark gray (N 4) clast-rich diamict with granules and pebbles (up to 3 cm) of siltstone, sandstone, greenstone, and granitoid is the major lithology. Dark greenish gray (10Y 4/1), heavily bioturbated diatom ooze with shell fragments and very dark greenish gray (10Y 3/1) diatom bearing mud with dispersed clasts are minor lithologies. Dark greenish gray (10Y 4/1) finely laminated diatom ooze is the major lithology. Magnetic susceptibility measurements fall below the axis in Section 1.

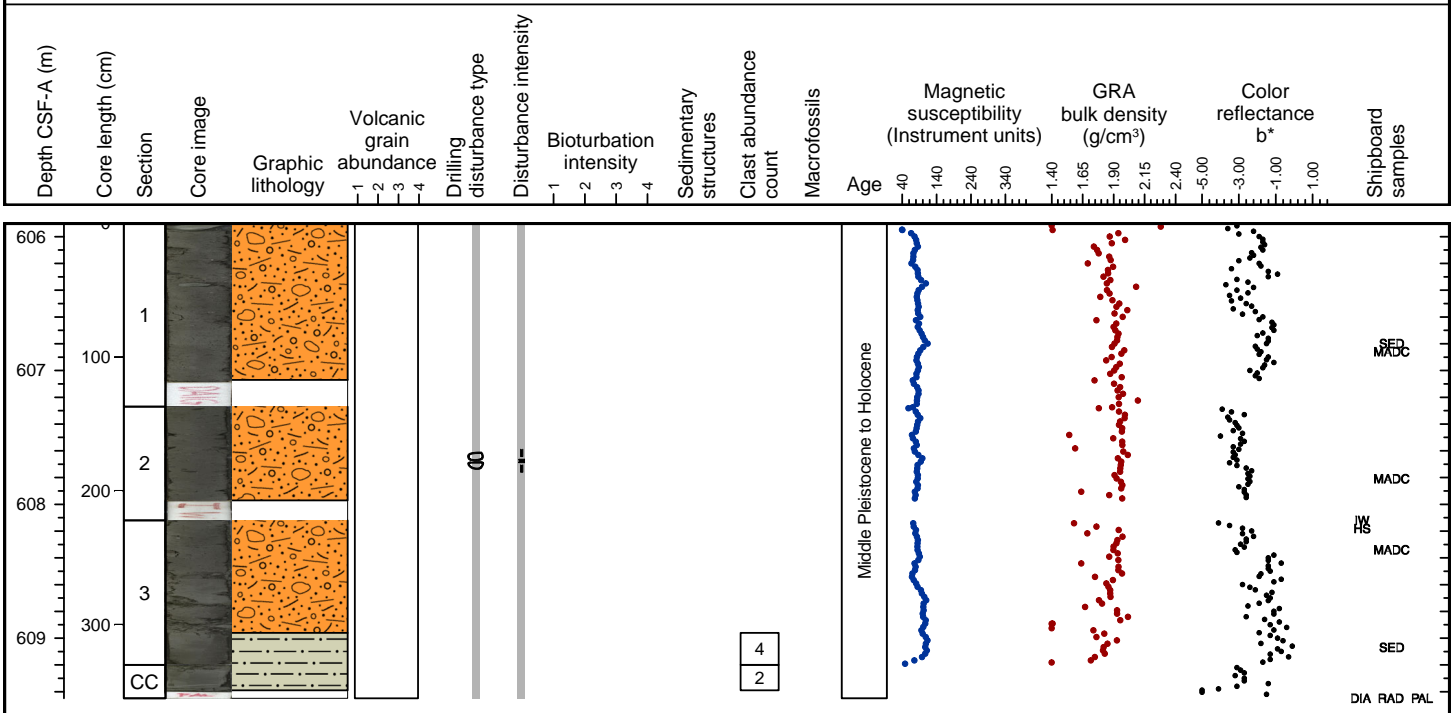




Hole 341-U1421A Core 76X, Interval 605.7-609.25 m (CSF-A)

CLAST-RICH DIAMICT, MUD

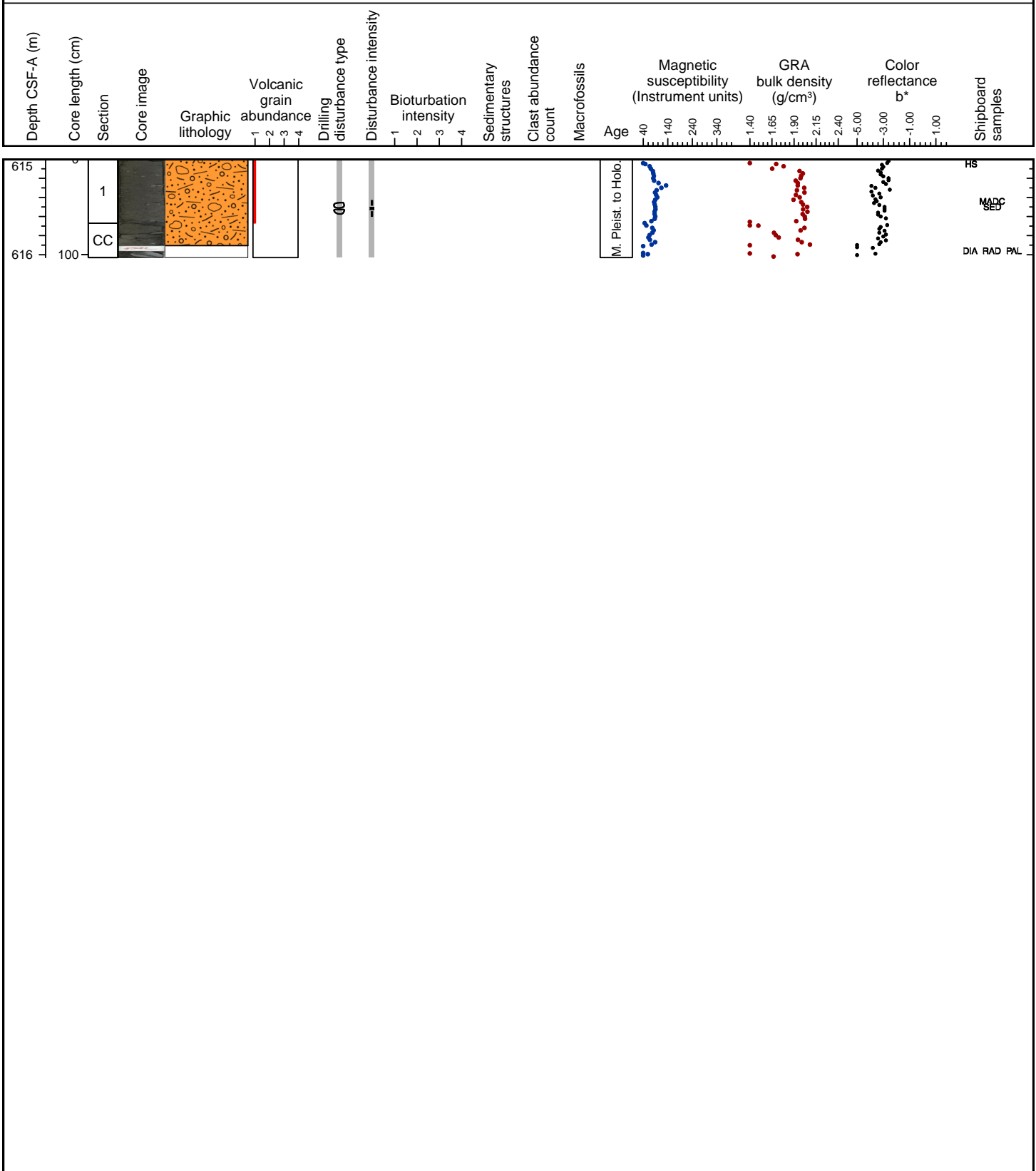
Very dark gray (N 3) clast-rich diamict with a sandy mud matrix is the major lithology. Clasts of granule and pebble size include sandstone, basalt, greenstone, granitoid, quartz, argillite and rhyolite(?). Dark gray (N 4) mud with dispersed clasts and diatoms is the minor lithology.



Hole 341-U1421A Core 77X, Interval 615.4-616.43 m (CSF-A)

CLAST-RICH DIAMICT, MINOR LITHOLOGY NOT RECOVERED

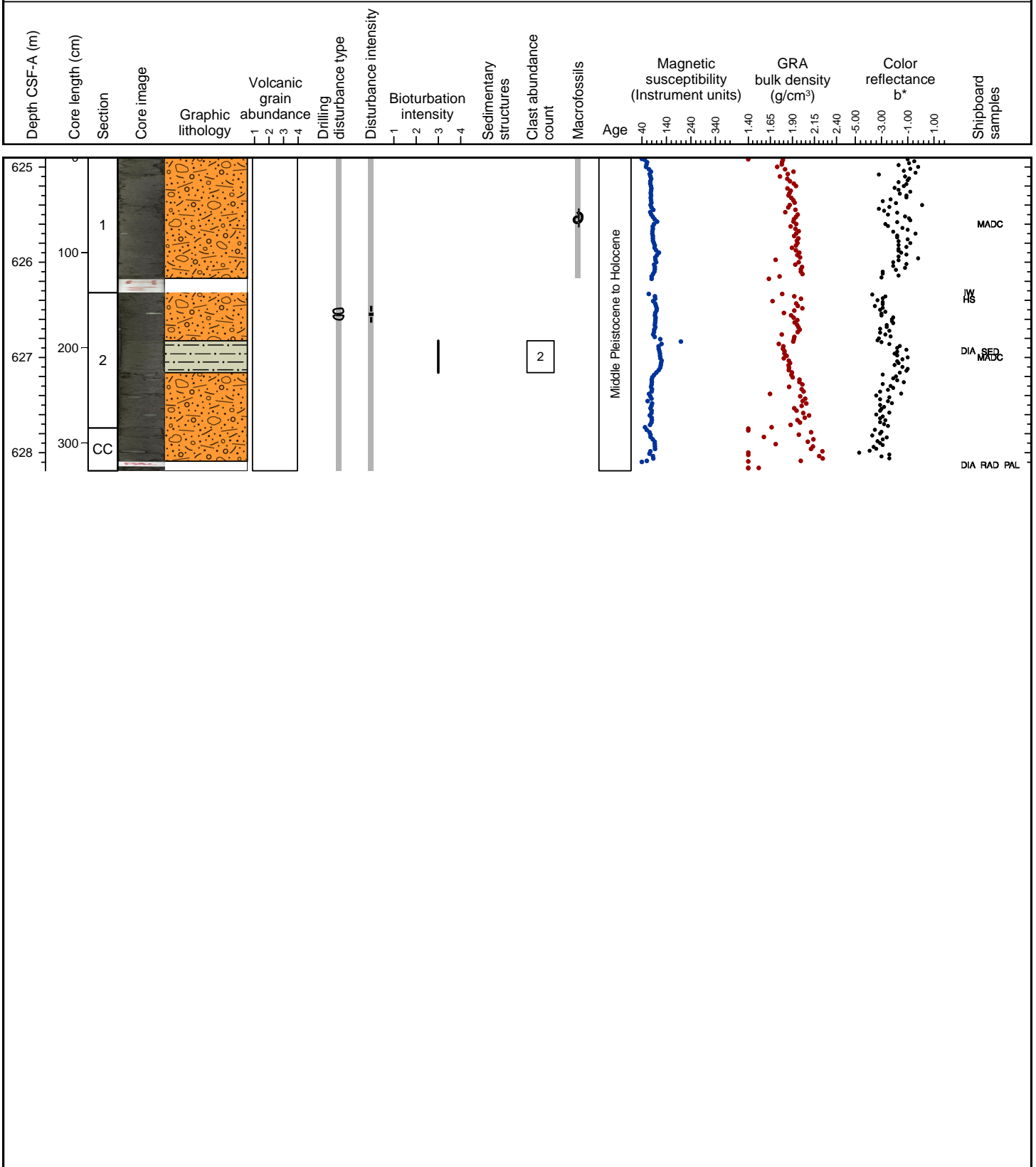
Very dark gray (N 3) clast-rich diamict with a sandy mud matrix is the major lithology. Clasts of granule and pebble size include sandstone, basalt, greenstone, vein quartz, metasediment and rhyolite(?). An aggregate of multiple carbonate tubes, as well as traces of volcanic ash are present in Section 1. A washed pebble of coarse sandstone was found in the core catcher.



Hole 341-U1421A Core 78X, Interval 625.1-628.39 m (CSF-A)

CLAST-RICH DIAMICT, MUD, MINOR LITHOLOGY NOT RECOVERED

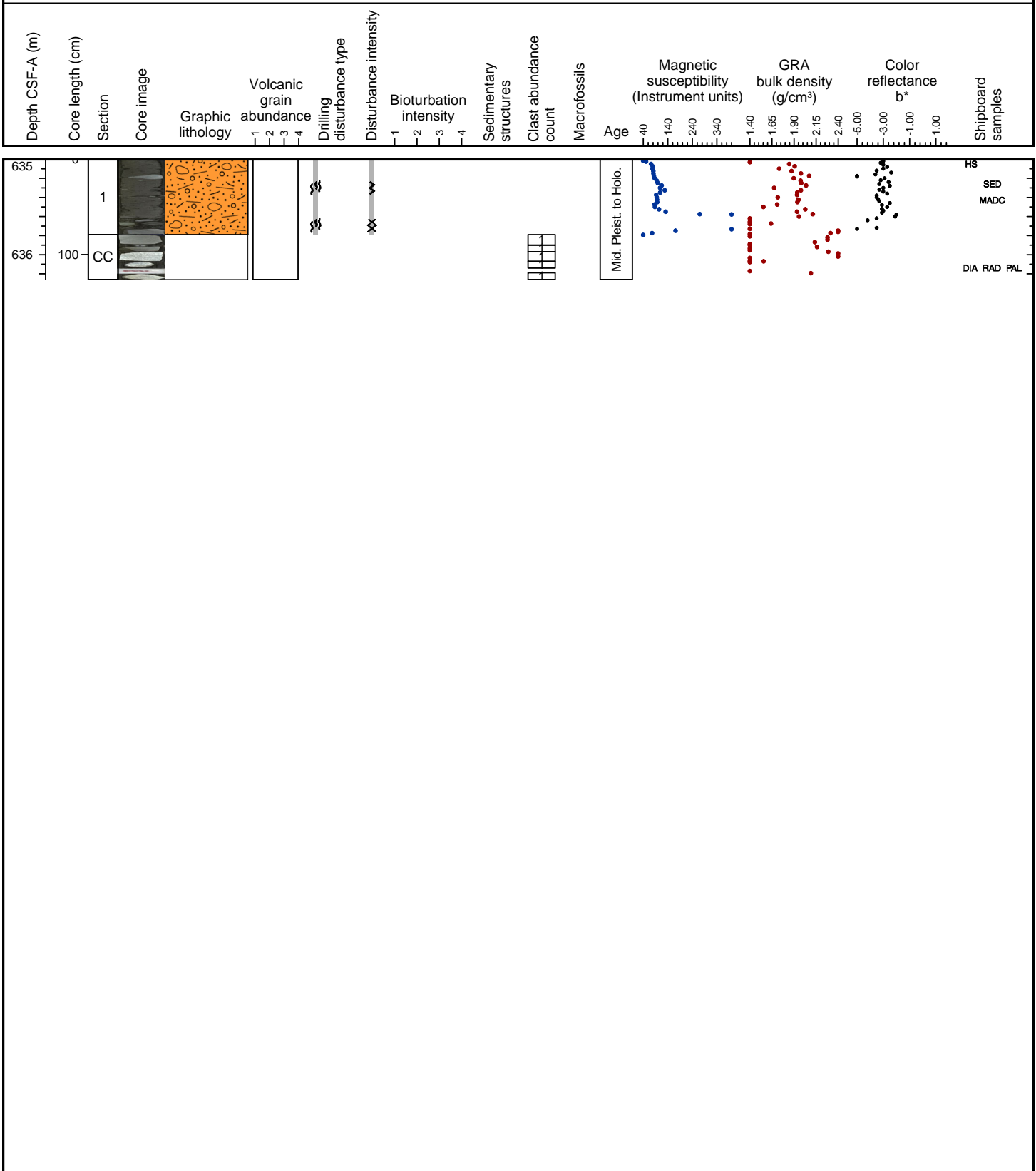
Very dark gray (N 3) clast-rich diamict with a sandy mud matrix is the major lithology. Clasts of granule and pebble size include siltstone, greenstone, sandstone, granitoid, vein quartz, argillite, metasandstone, basalt and siltstone with deformation. Very dark greenish gray (10Y 3/1) mud with diatoms and dispersed clasts is a minor lithology. Washed rocks of sandstone are found in the core catcher.



Hole 341-U1421A Core 79X, Interval 634.8-636.06 m (CSF-A)

CLAST-RICH DIAMICT, MINOR LITHOLOGY NOT RECOVERED

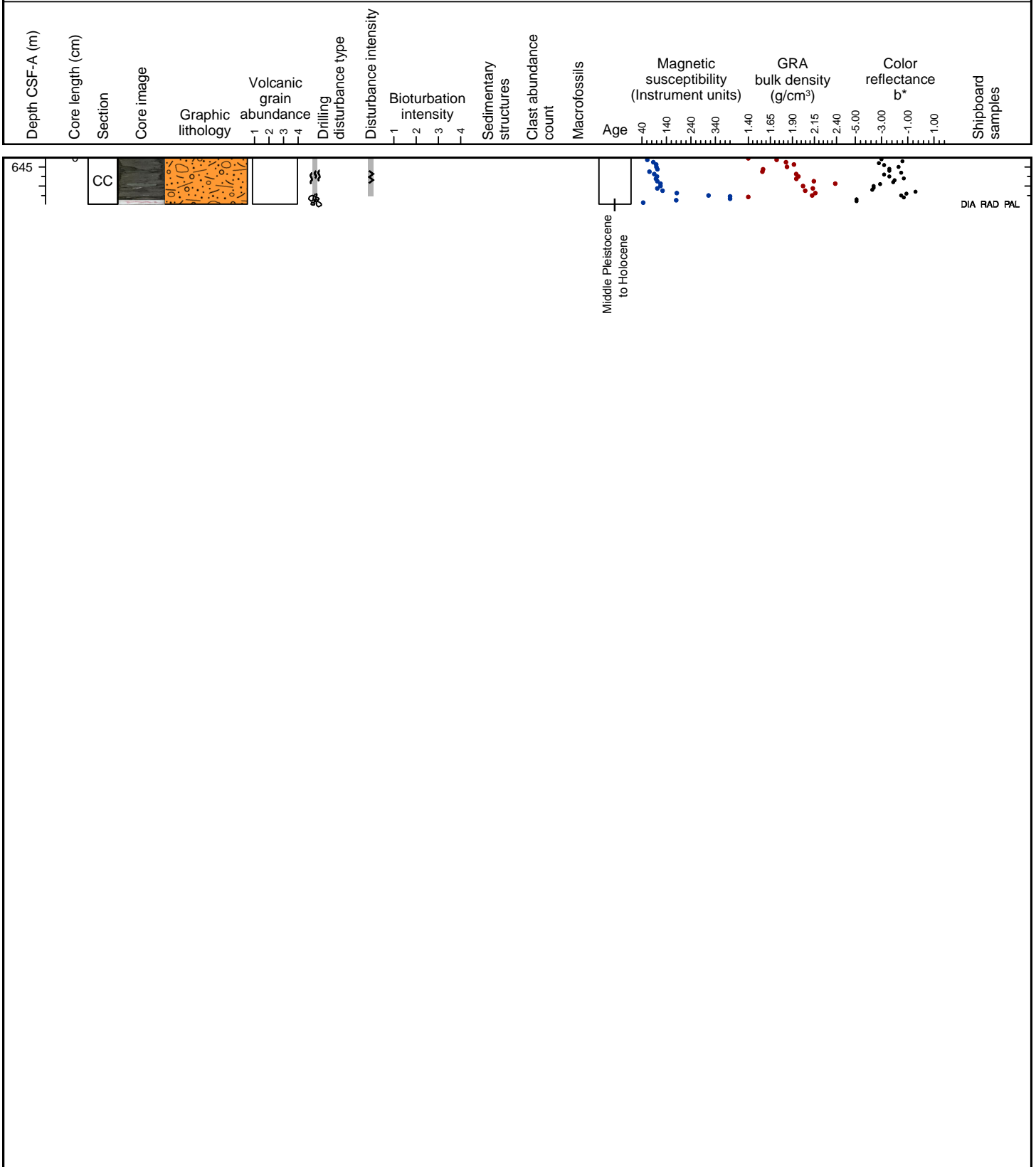
Very dark gray (N 3) clast-rich diamict with a silty mud matrix is the major lithology. Clasts of granule and pebble size include siltstone, basalt, sandstone, granitoid and argillite. In the core catcher the minor lithology was not recovered, and only clasts including sandstone, tonalite and granodiorite remain.



Hole 341-U1421A Core 80X, Interval 644.5-644.99 m (CSF-A)

CLAST-RICH DIAMICT

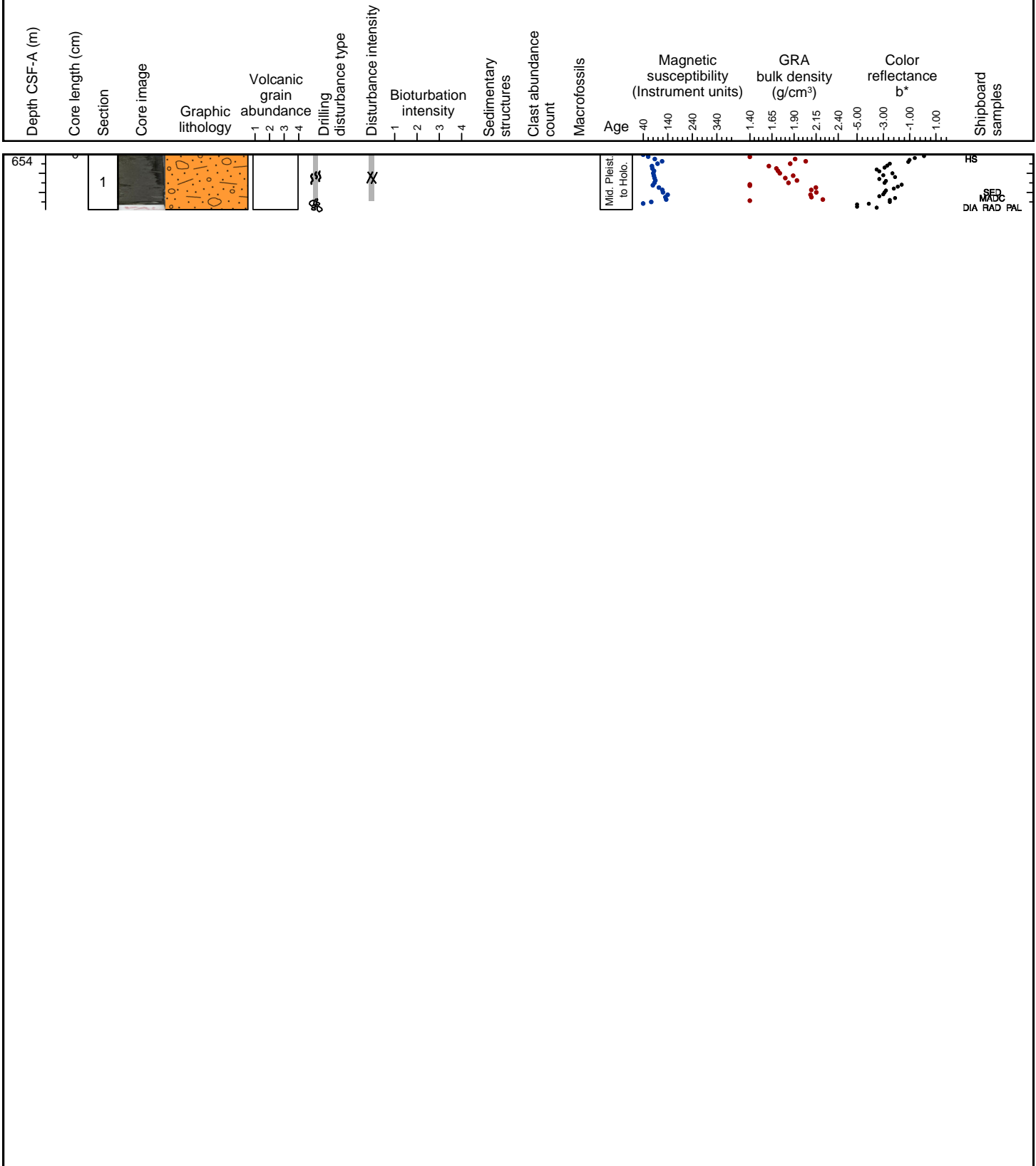
Very dark gray (N 3) clast-rich diamict with a silty mud matrix is the major lithology. Clasts of granule and pebble size include granitoid, basalt, greywacke and siltstone.



Hole 341-U1421A Core 81X, Interval 654.2-654.78 m (CSF-A)

CLAST-POOR DIAMICT

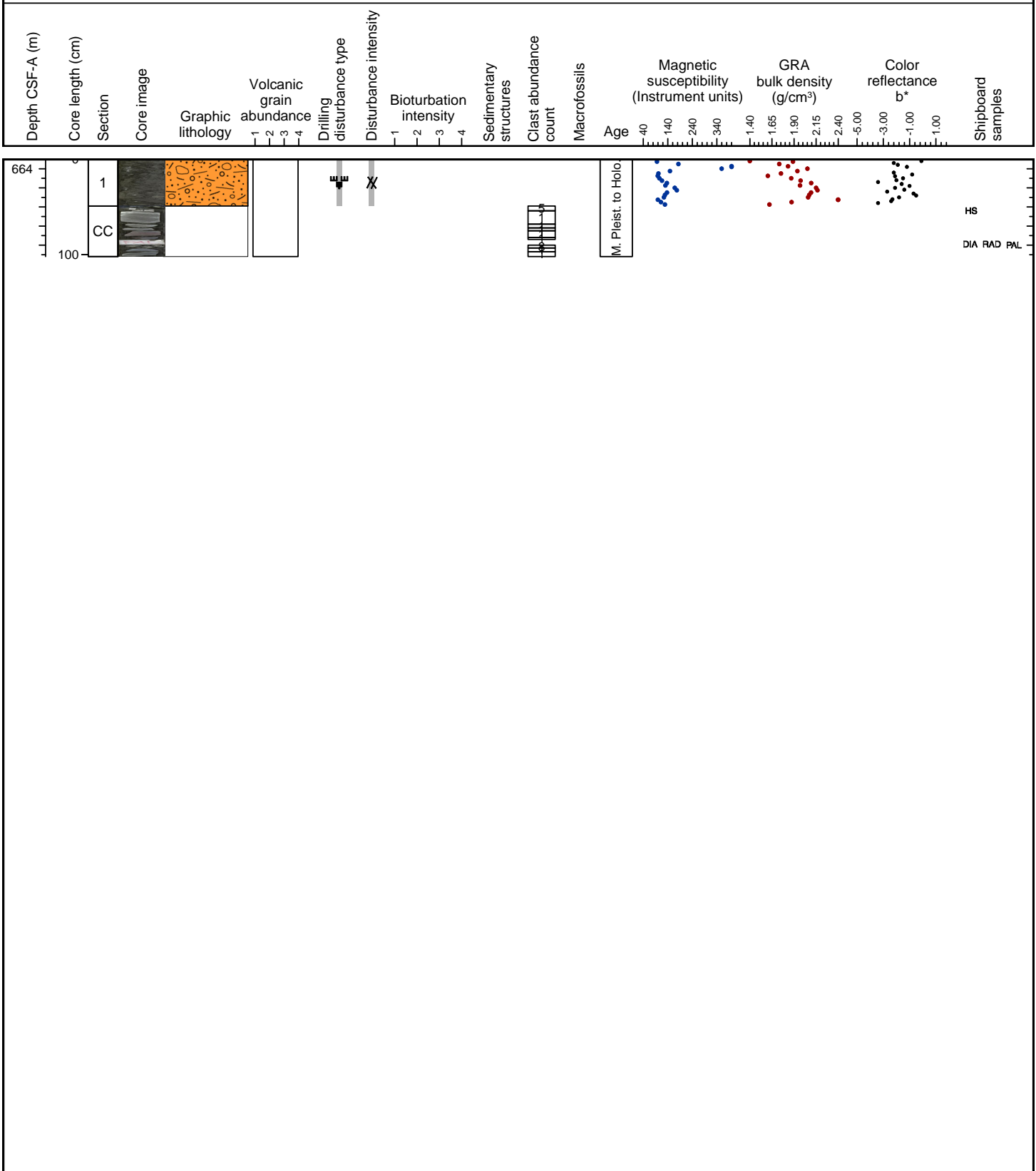
Very dark gray (N 3) clast-poor diamict with a silty mud matrix is the major lithology. Clasts of granule and pebble size include basalt, greywacke, sandstone and siltstone.



Hole 341-U1421A Core 82X, Interval 663.9-664.92 m (CSF-A)

CLAST-RICH DIAMICT, MINOR LITHOLOGY NOT RECOVERED

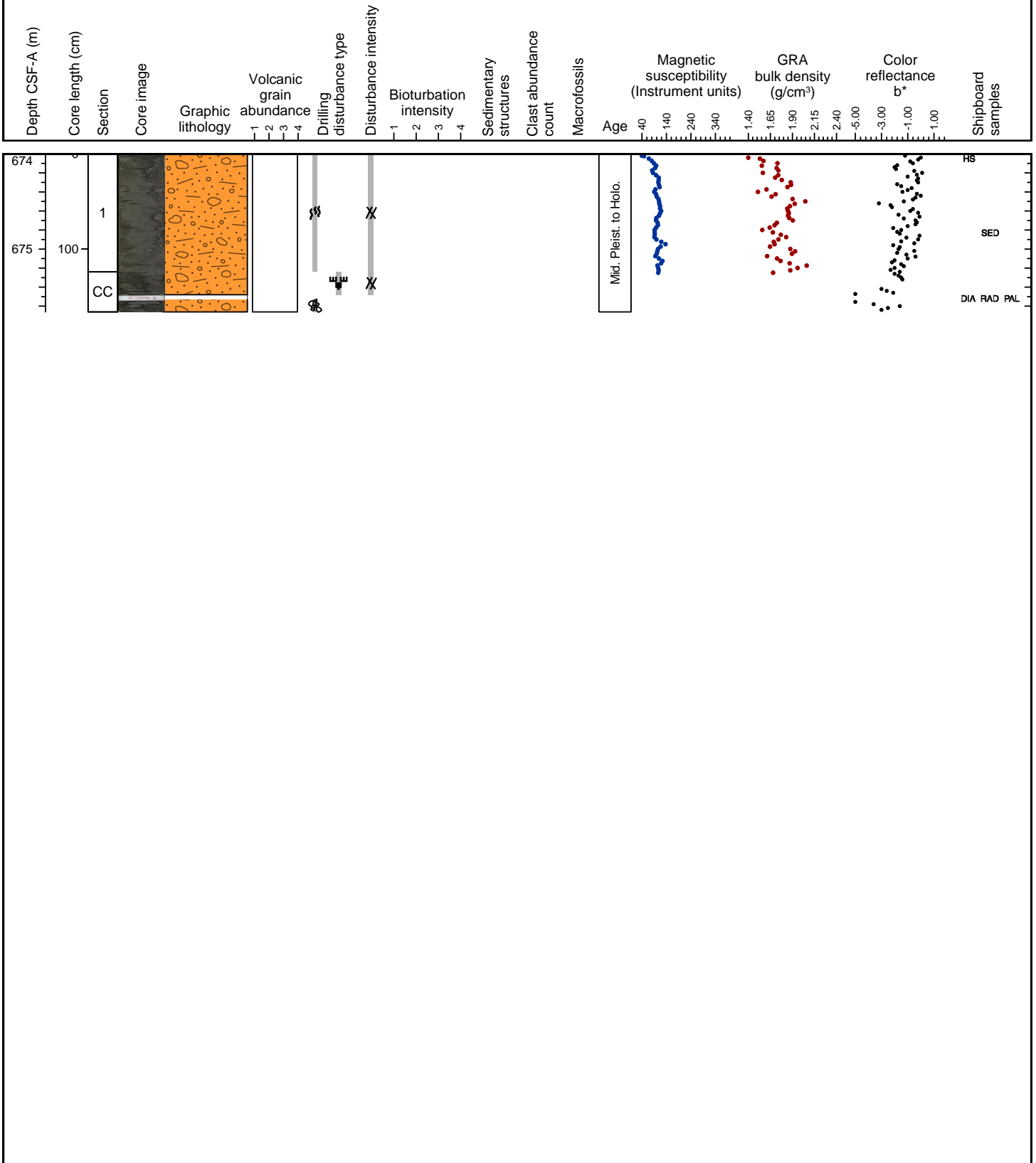
Very dark gray (N 3) clast-rich diamict with a silty mud matrix with sand is the major lithology. Clasts of granule and pebble size include siltstone, basalt, sandstone, granite and vein quartz. In the core catcher the minor lithology was not recovered, and only clasts including sandstone, rhyolite and metasiltstone remain.



Hole 341-U1421A Core 83X, Interval 673.6-675.26 m (CSF-A)

CLAST-POOR DIAMICT

Very dark gray (N 3) clast-poor diamict with a silty mud matrix is the major lithology. Clasts of granule and pebble size include sandstone, basalt, argillite and siltstone.

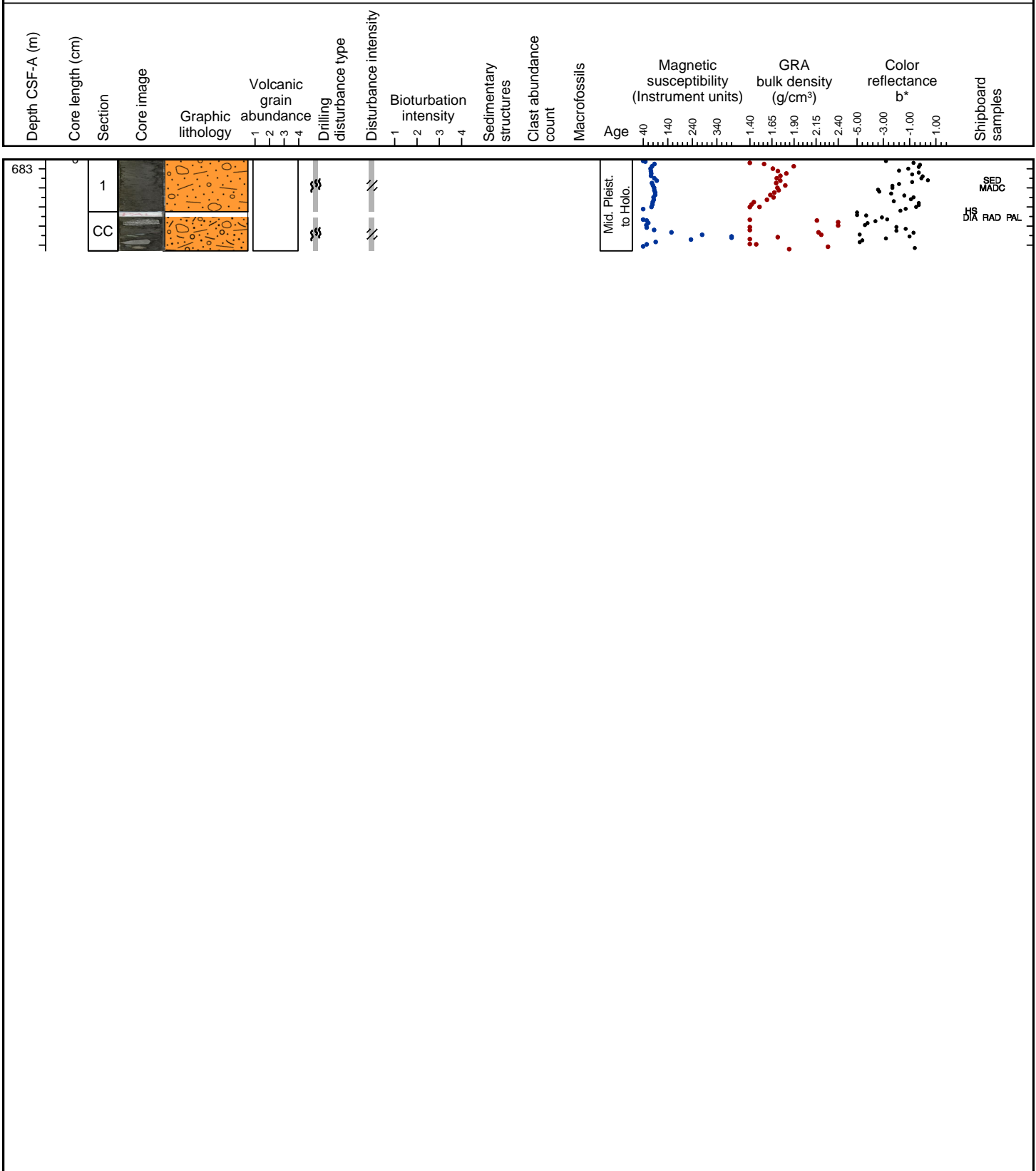




Hole 341-U1421A Core 84X, Interval 683.3-684.26 m (CSF-A)

CLAST-POOR DIAMICT, CLAST-RICH DIAMICT

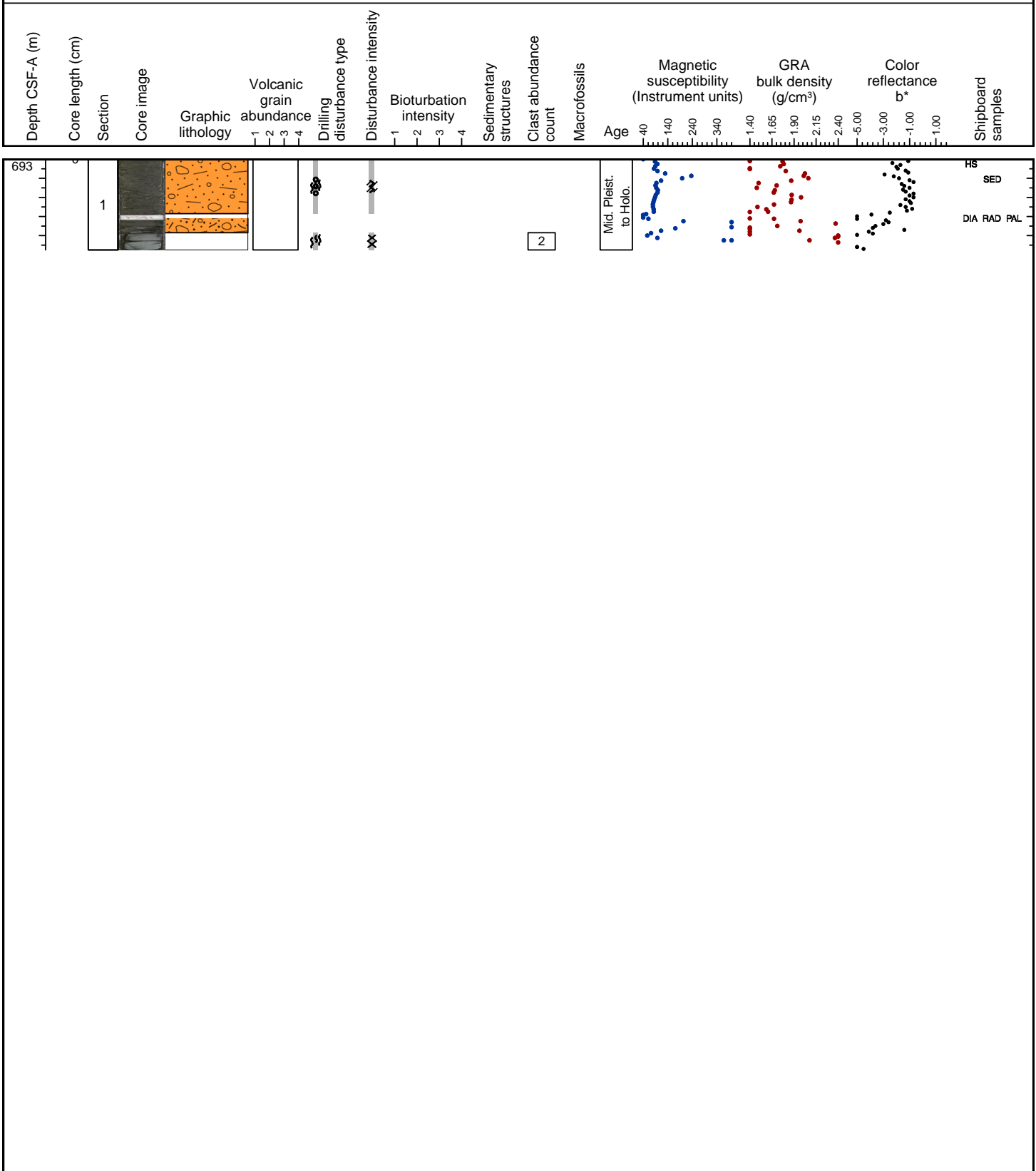
Very dark gray (N 3) silty clast-poor diamict is the major lithology. Silty clast-rich diamict is the minor lithology, and includes at least one drilled cobble sized clast. Clast lithologies include granitoid, basalt, siltstone, rhyolite, sandstone, schist, metavolcanic, argillite, and limestone.



Hole 341-U1421A Core 85X, Interval 693.0-693.95 m (CSF-A)

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

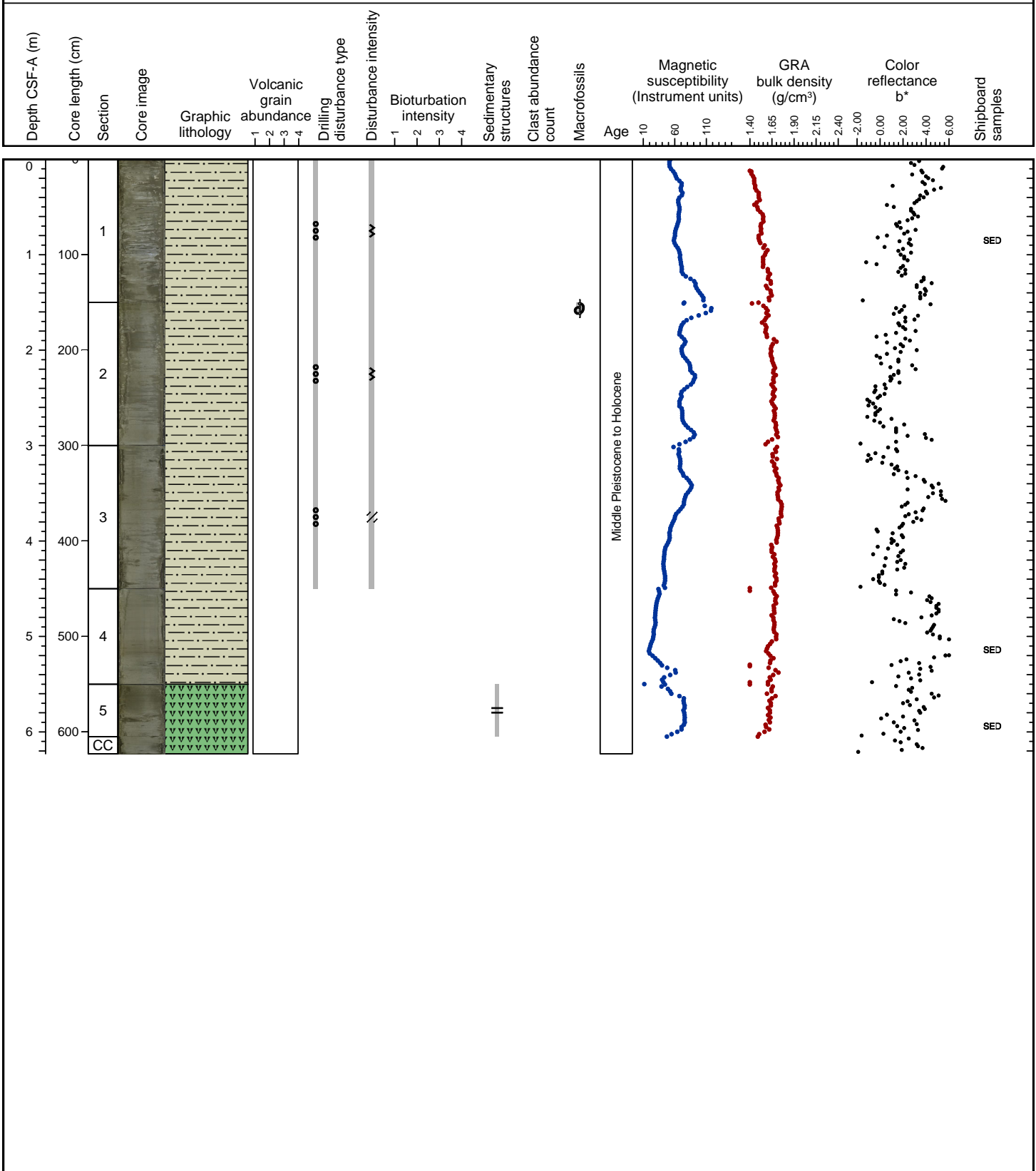
Very dark gray (N 3) silty clast-poor diamict is the major lithology. Silty clast-rich diamict is the minor lithology. Clast lithologies include siltstone, sandstone, basalt, and metavolcanic. No minor lithology was recovered in the bottom of the core due to the wash away of matrix material during drilling. Two drilled cobbles (sandstone, metasiltstone) remain.



Hole 341-U1421B Core 1H, Interval 0.0-6.23 m (CSF-A)

MUD, DIATOM OOZE

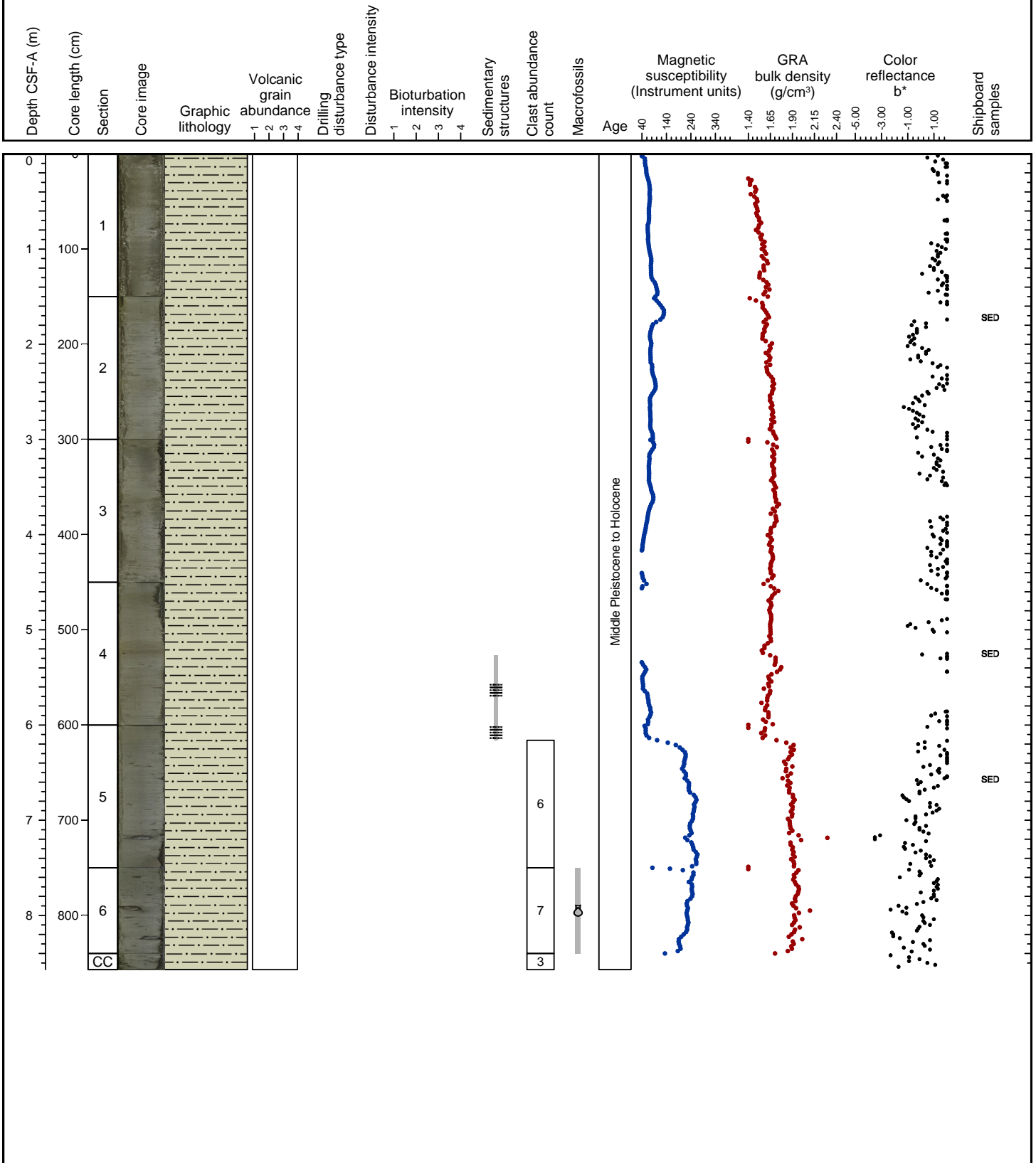
Dark greenish gray (10Y 4/1) and greenish gray (10Y 5/1) diatom rich mud is the major lithology. Dark gray (N 4) mud is a minor lithology in Sections 2 and 3. Greenish gray (10Y 5/1) diatom ooze is a minor lithology in Sections 5 and CC, and very dark greenish gray (10Y 3/2) diatom rich mud with foraminifera is present in Section 4. Shell fragments are present in Section 2. Lonestones are absent. Intervals of black mottling are present throughout the core. Soupy drilling disturbance is moderate in Sections 1, 2, and 3.



Hole 341-U1421C Core 1H, Interval 0.0-8.57 m (CSF-A)

MUD

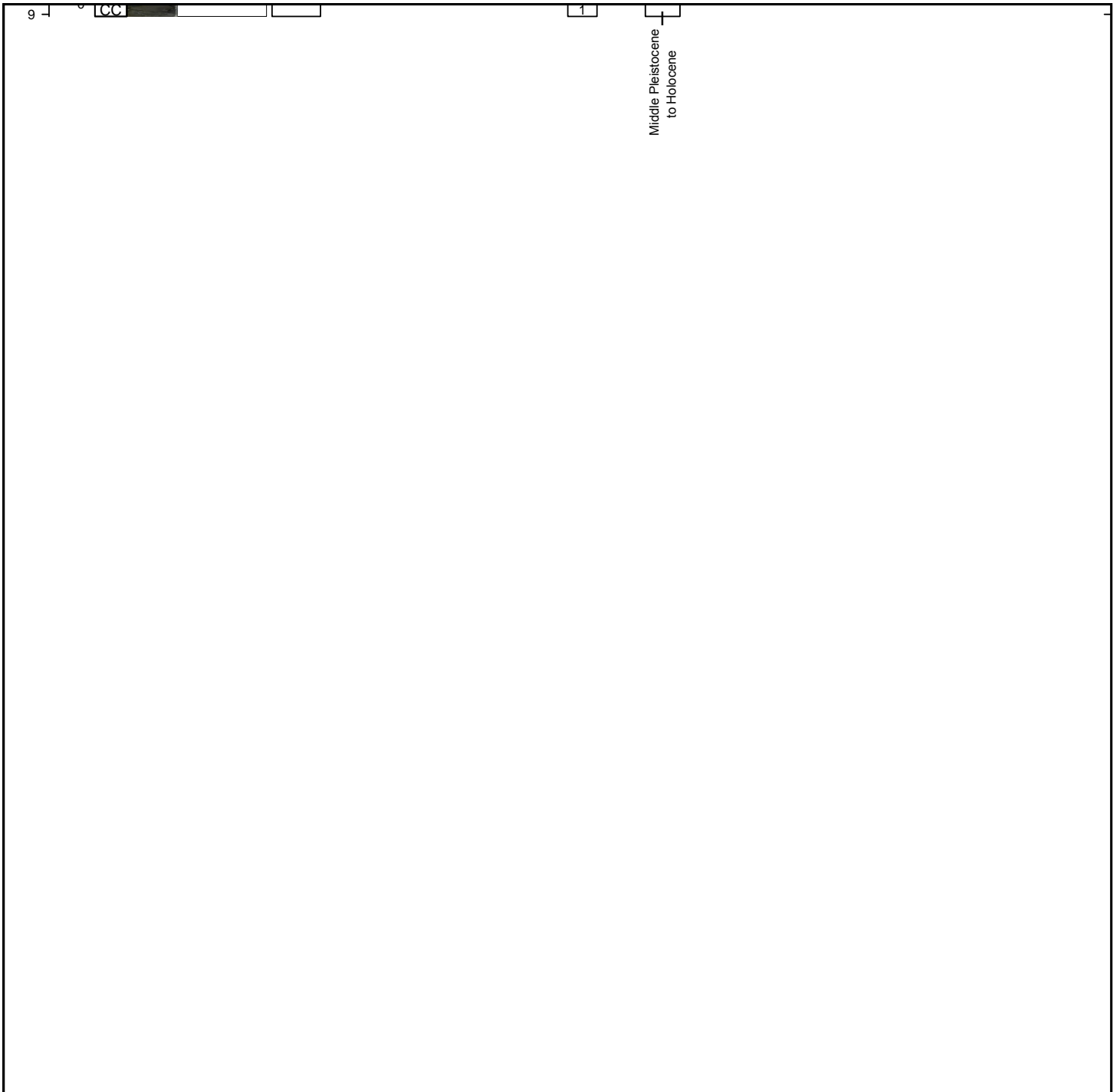
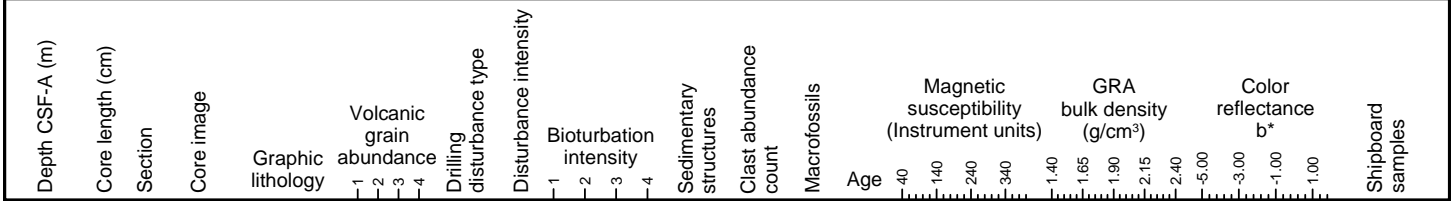
Dark greenish gray (10Y 4/1) to very dark grayish green (10Y 3/2) and greenish gray (10Y 5/1) diatom bearing to diatom rich mud is the major lithology. Diatom rich mud contains foraminifera in Section 4. Dark gray (N 4) mud is a minor lithology in Sections 5, 6 and CC. A 5 mm bivalve shell is present in Section 6. Lonestones occur in Sections 5 and 6. Some magnetic susceptibility, GRA bulk density, and color reflectance data are not plotted due to axis constraints.

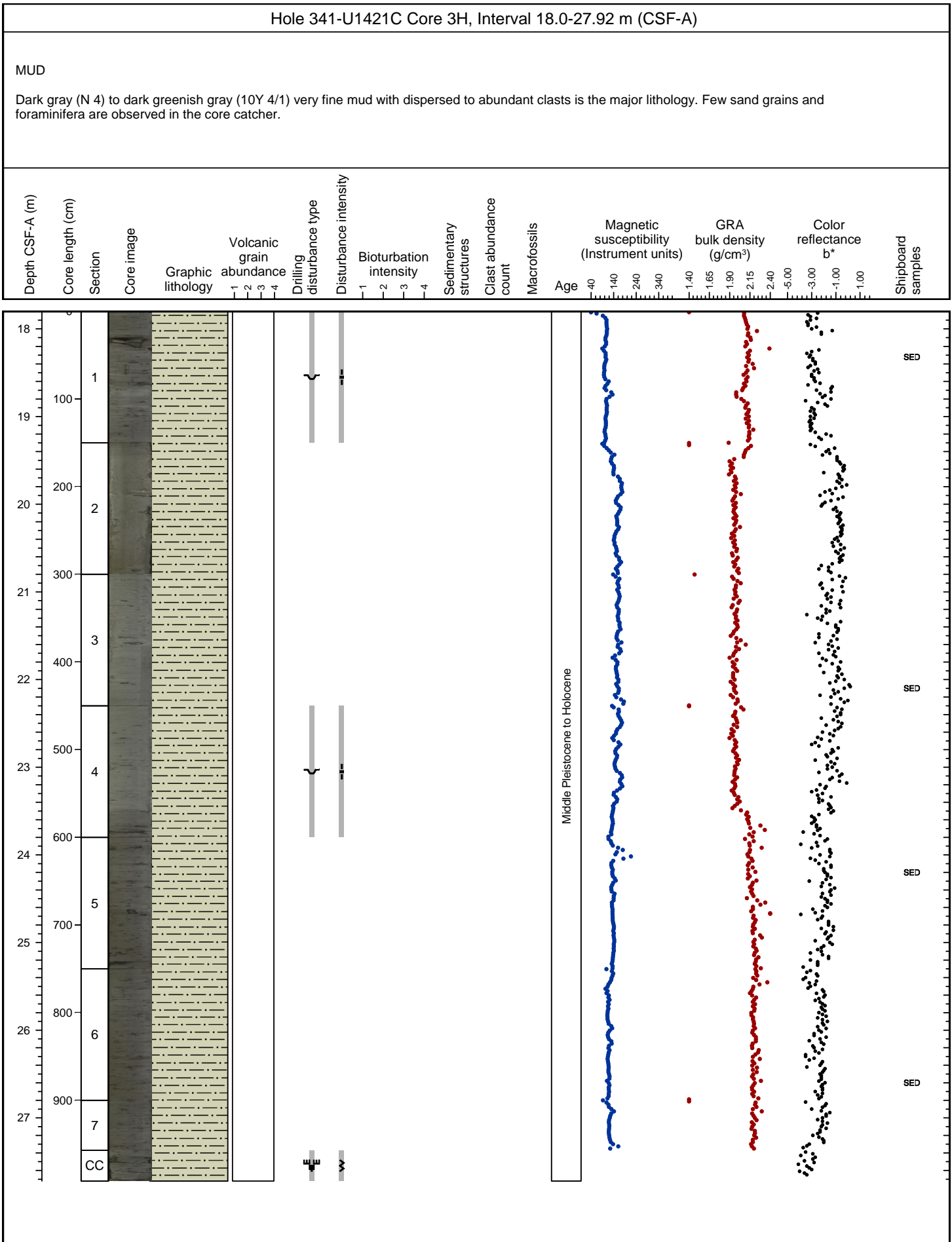


Hole 341-U1421C Core 2H, Interval 8.5-8.62 m (CSF-A)

NO MAJOR LITHOLOGY RECOVERED

No major lithology was recovered. One argillite cobble (8 cm) and very little mud matrix with granules remains.



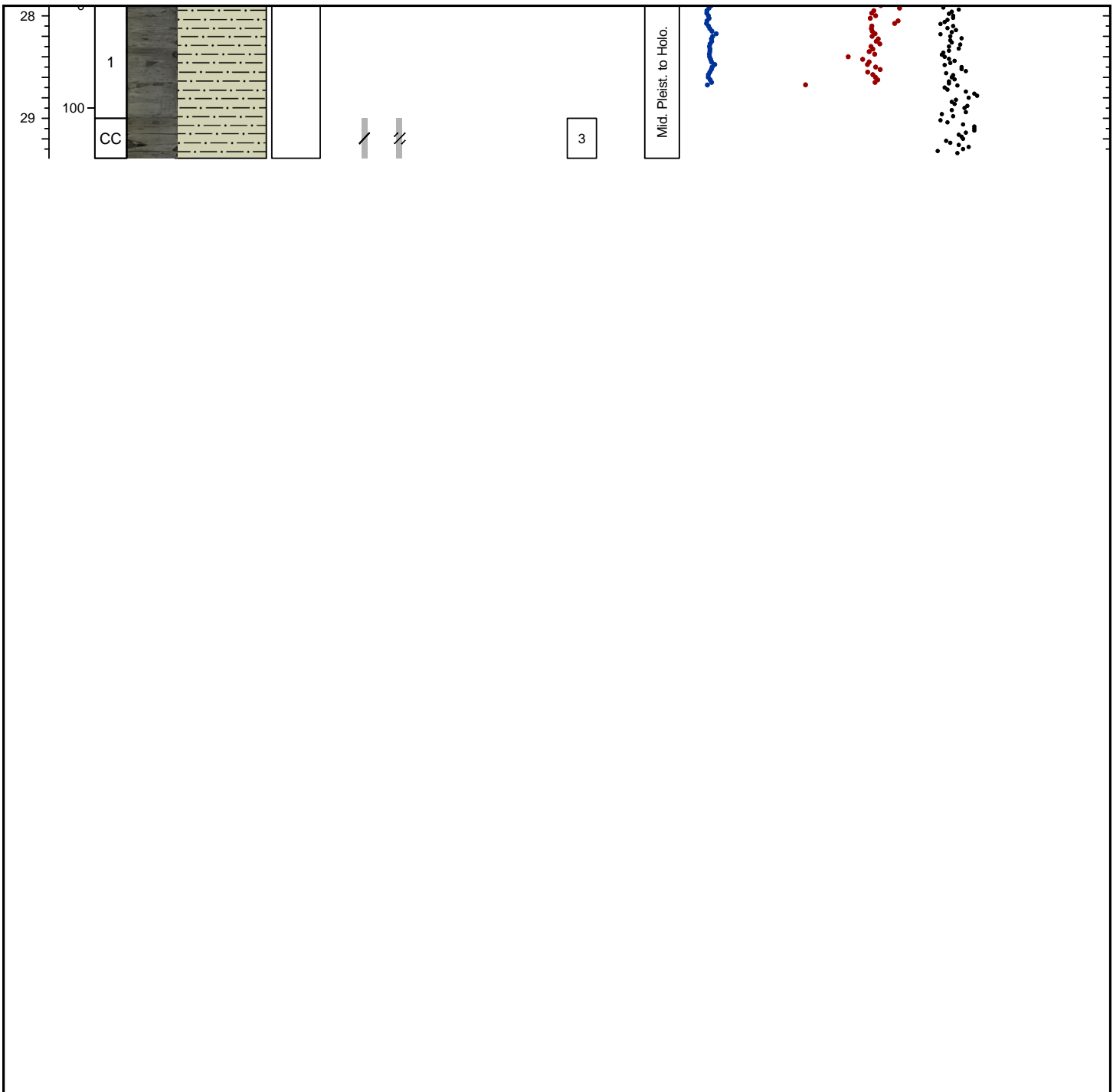


**Hole 341-U1421C Core 4H, Interval 27.5-28.99 m (CSF-A)**

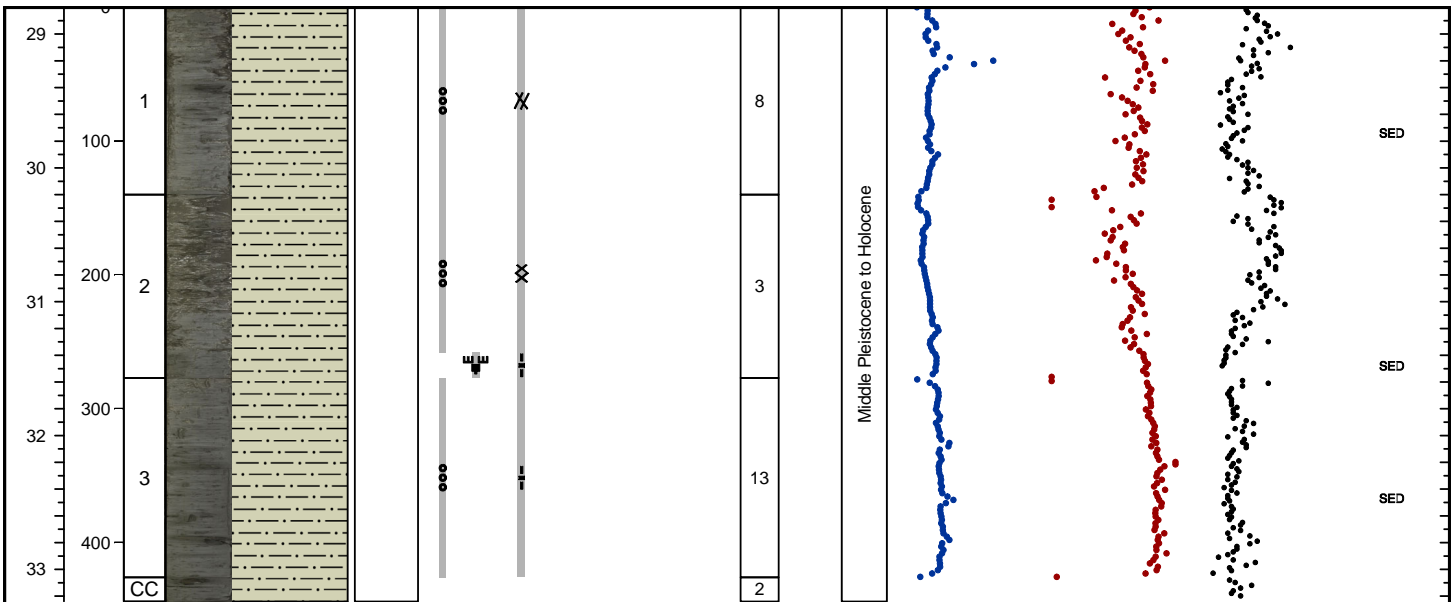
**MUD**

Dark gray (N 4) to dark greenish gray (10Y 4/1) mud with common clasts is the major lithology. The dark greenish gray (10Y 4/1) mud contains more clay and less pebbles. Magnetic susceptibility and GRA bulk density data not collected for the bottom of Section 1 and CC.

Depth CSF-A (m)	Core length (cm)	Section	Core image	Graphic lithology	Volcanic grain abundance	Drilling disturbance type	Disturbance intensity	Bioturbation intensity	Sedimentary structures	Clast abundance count	Macrofossils	Age	Magnetic susceptibility (Instrument units)	GRA bulk density (g/cm <sup>3</sup> )	Color reflectance b*	Shipboard samples
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Hole 341-U1421C Core 5H, Interval 29.0-33.44 m (CSF-A)															
MUD															
Dark gray (N 4) mud with dispersed clasts is the major lithology. The core is moderately to highly disturbed.															
Depth CSF-A (m)	Core length (cm)	Section	Core image	Graphic lithology	Volcanic grain abundance	Drilling disturbance type	Disturbance intensity	Bioturbation intensity	Sedimentary structures	Clast abundance count	Macrofossils	Magnetic susceptibility (Instrument units)	GRA bulk density (g/cm <sup>3</sup> )	Color reflectance b*	Shipboard samples
					1 2 3 4			1 2 3 4				Age 40 140 240 340	1.40 1.65 1.90 2.15 2.40	-5.00 -3.00 -1.00 1.00	





Hole 341-U1421C Core 6H, Interval 33.7-38.22 m (CSF-A)																						
MUD																						
Very dark gray (N 3) clayey mud with common to abundant clasts is the major lithology. Clast lithologies include siltstone, gneiss, and sandstone.																						
Depth CSF-A (m)	Core length (cm)	Section	Core image	Graphic lithology	Volcanic grain abundance	Drilling disturbance type	Disturbance intensity	Bioturbation intensity	Sedimentary structures	Clast abundance count	Macrofossils	Magnetic susceptibility (Instrument units)	GRA bulk density (g/cm <sup>3</sup> )	Color reflectance b*	Shipboard samples							
					1			1				Age	1.40	1.65	1.90	2.15	2.40	-5.00	-3.00	-1.00	1.00	

