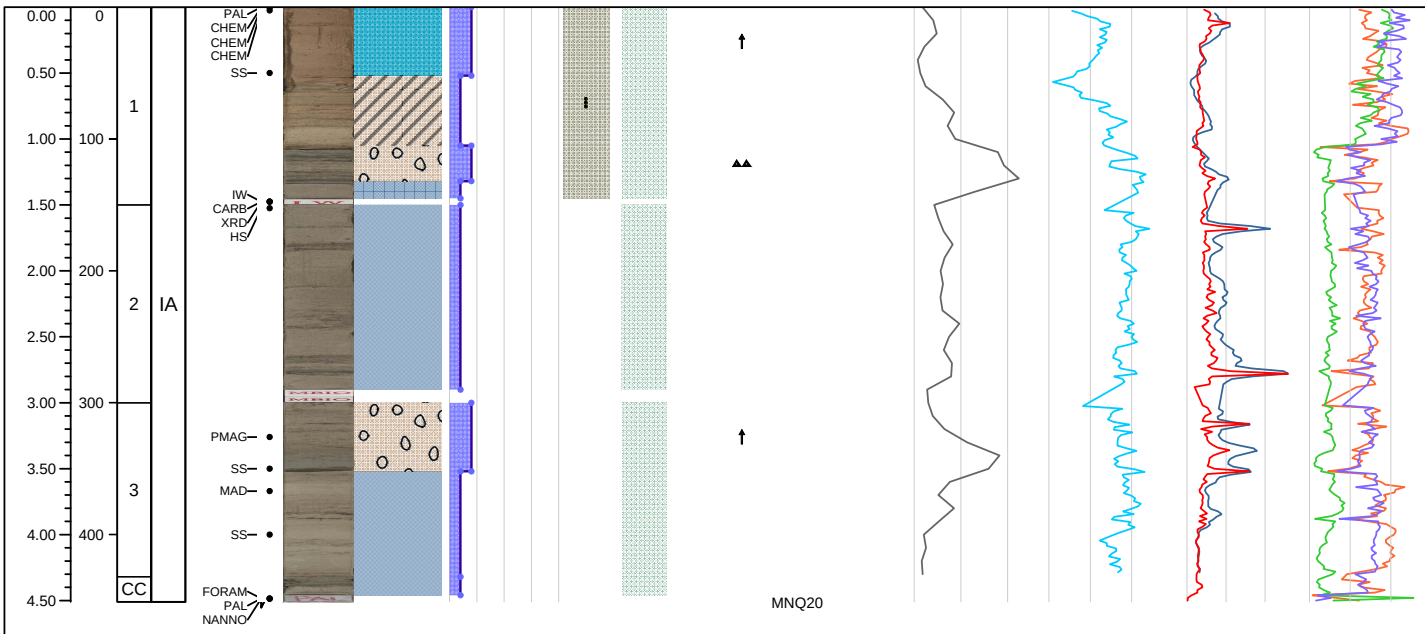
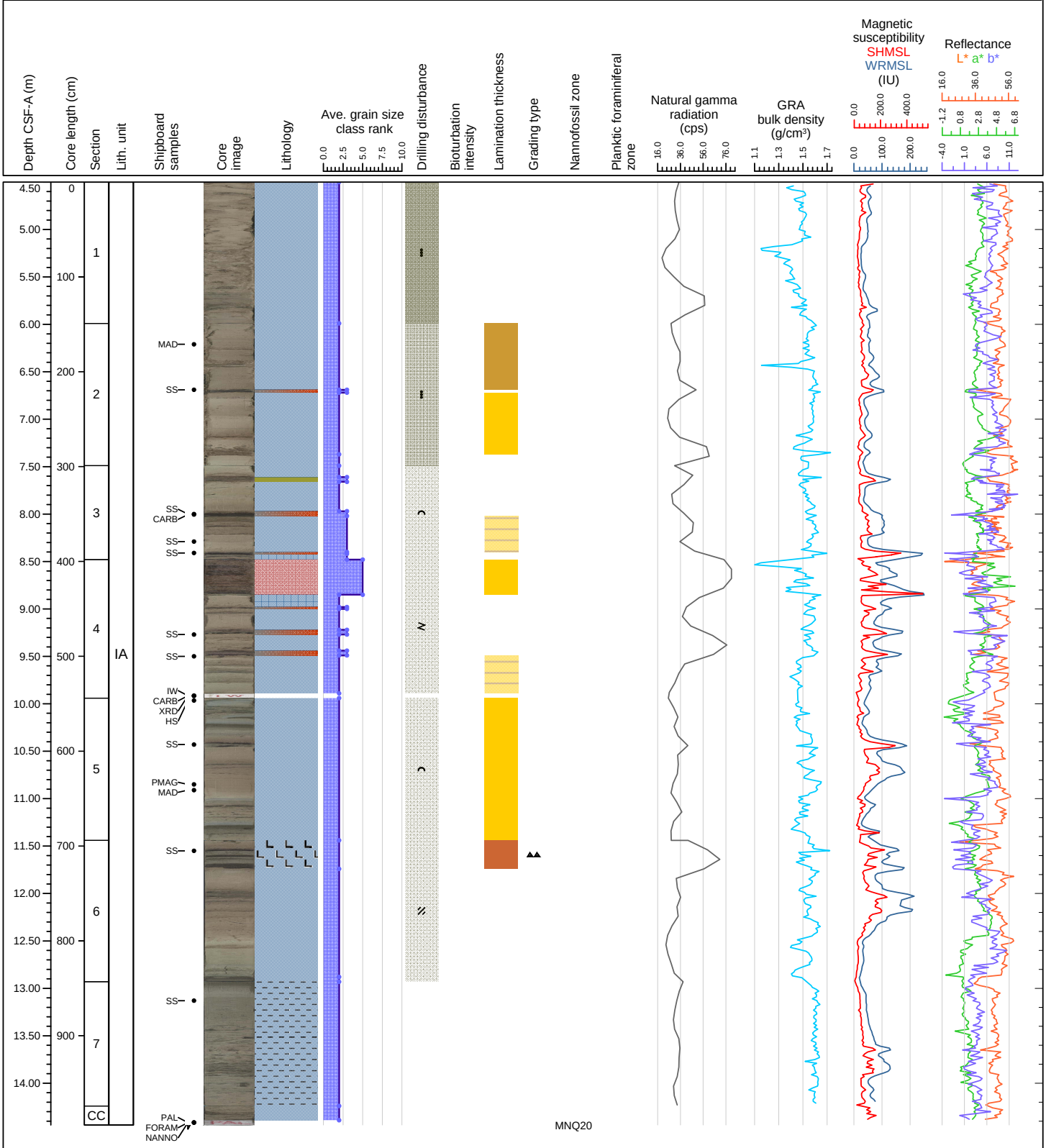
Hole 402-U1617A Core 1H, Interval 0.0-4.51 m (CSF-A)

Core is oxidized in the top 105 cm, with high presence of pteropods shells. Further downcore the sediments alternate turbiditic episodes with pelagic sedimentation. Tephra deposition is also common



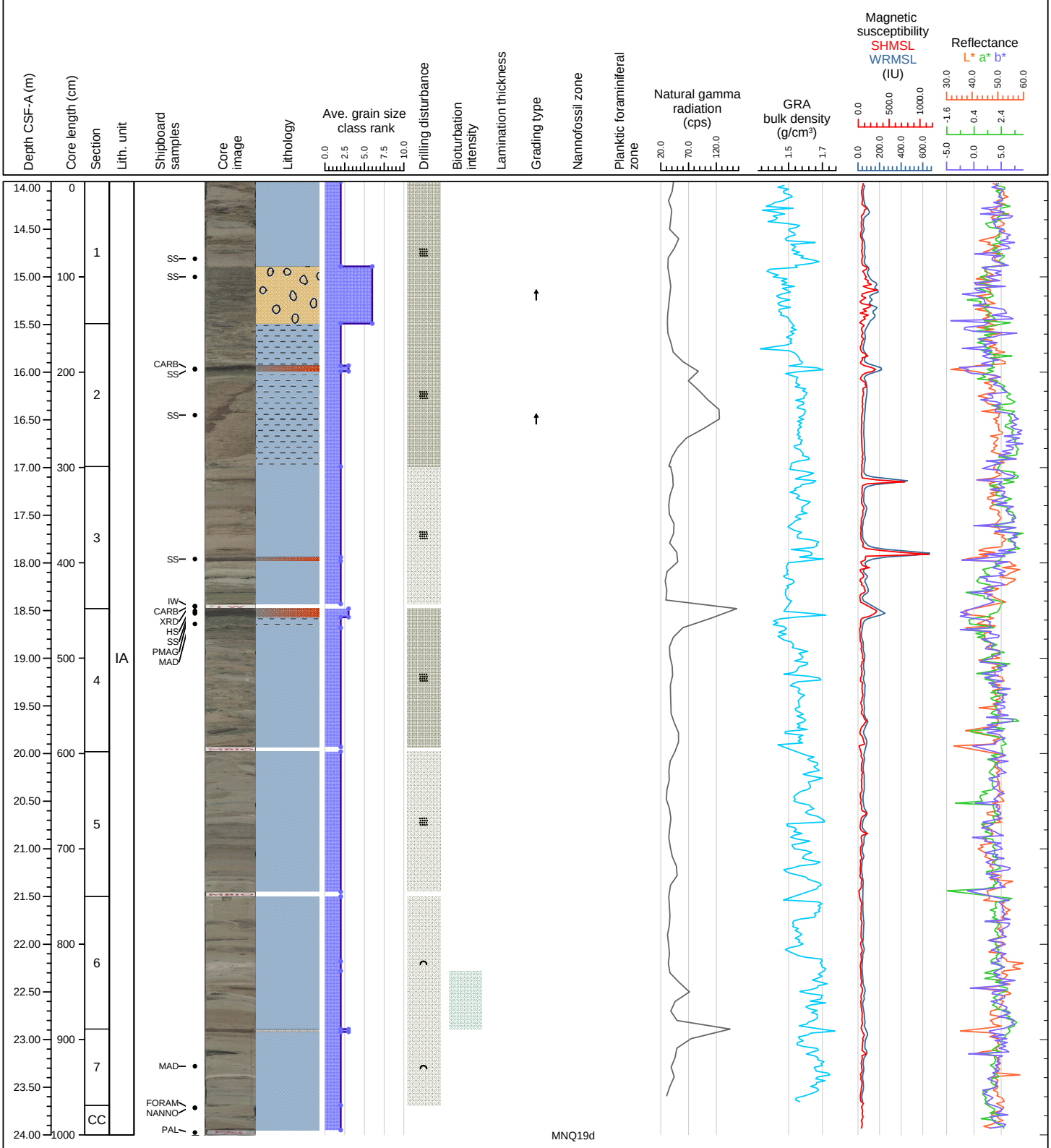
Hole 402-U1617A Core 2H, Interval 4.5-14.44 m (CSF-A)

Nannofossil ooze interrupted by sapropel and tephra layers. Soupy sediment due to drilling disturbance is present in the top two sections. Fall-in from drilling disturbance is present and found along the sides of the core.



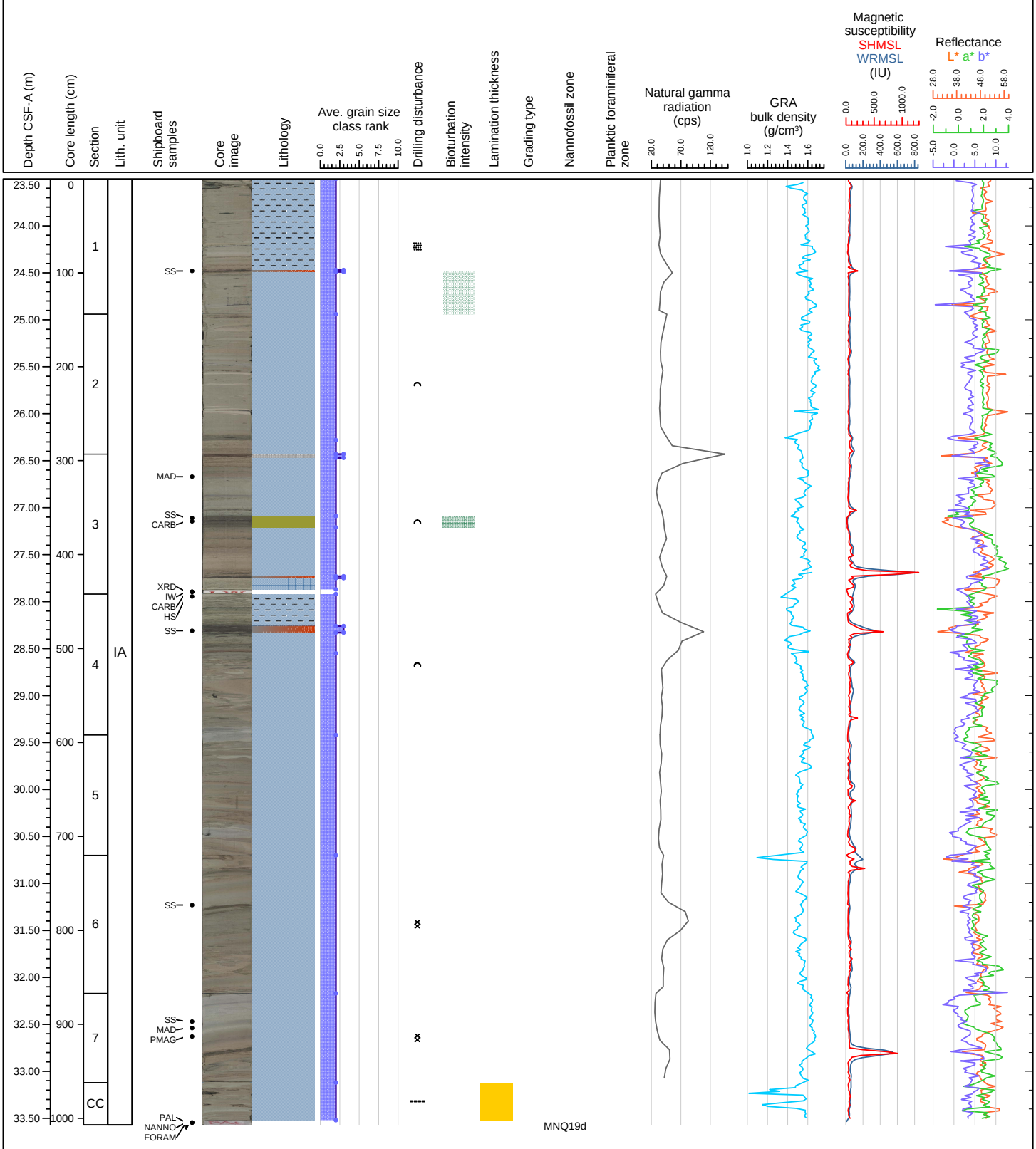
Hole 402-U1617A Core 3H, Interval 14.0-24.0 m (CSF-A)

Nannofossil ooze with layers of glauconite-rich material which have gradational boundaries. Sapropels also present. Much of the surface of the core has been pulverized during core cutting.



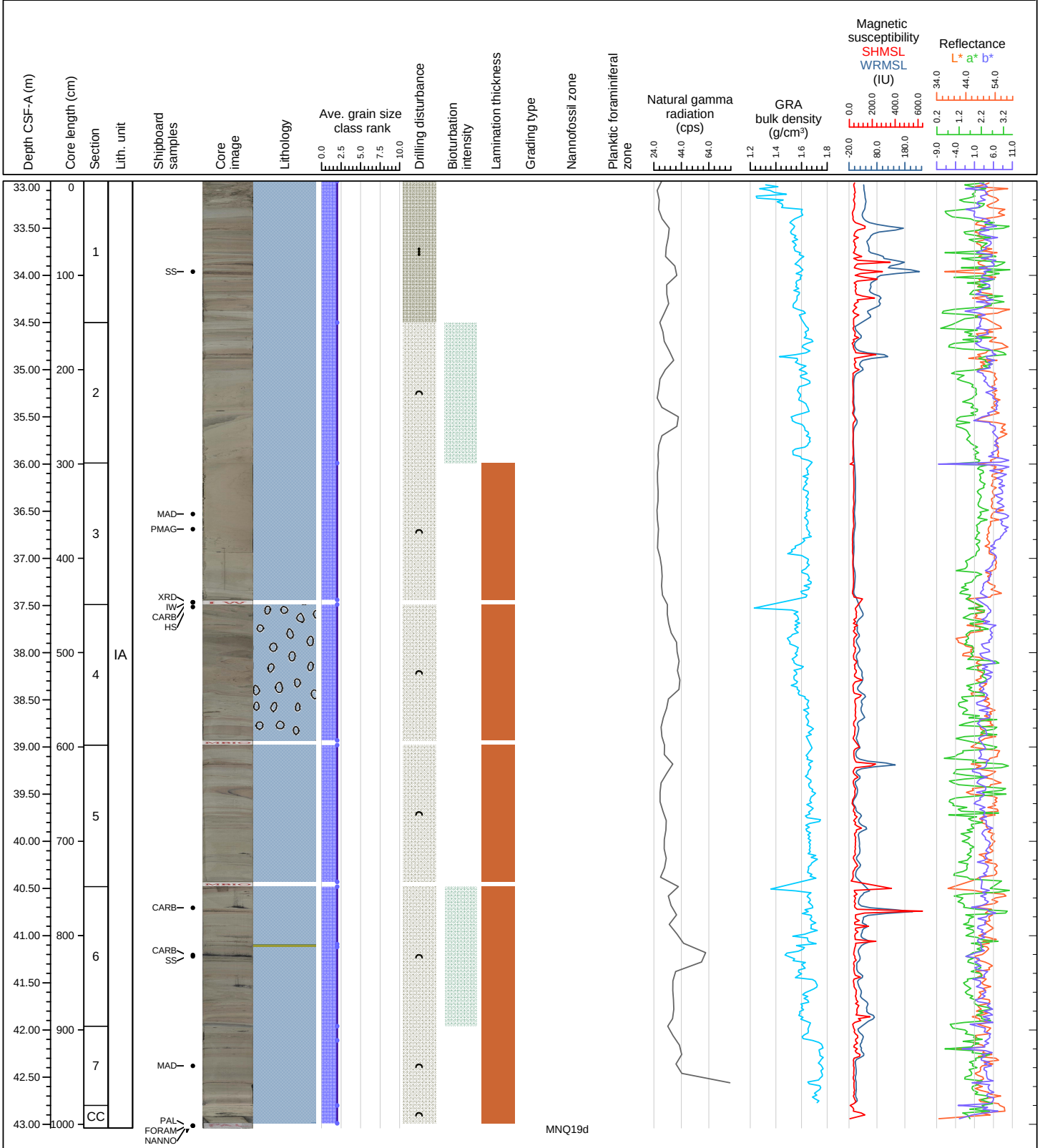
Hole 402-U1617A Core 4H, Interval 23.5-33.57 m (CSF-A)

Nannofossil ooze with layers of glauconite-rich material which have gradational boundaries. Sapropels and tephra layers also present. Much of the surface of the core was pulverized during core cutting. Up arching is also present.



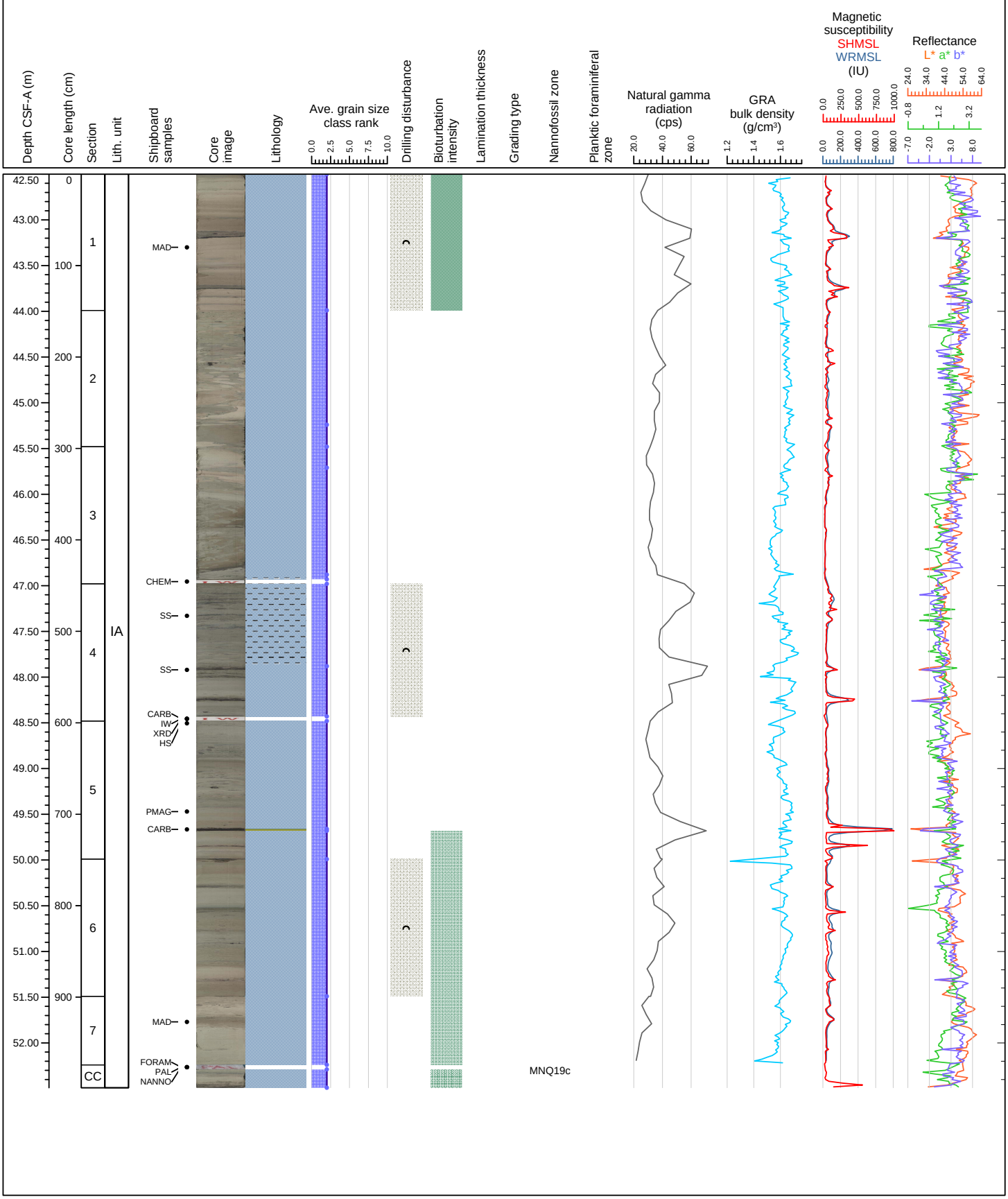
Hole 402-U1617A Core 5H, Interval 33.0-43.04 m (CSF-A)

Nannofossil ooze intercalated by sapropel and tephra layers. Almost all the core except for the last section show deformation structures, possibly related to a big slump



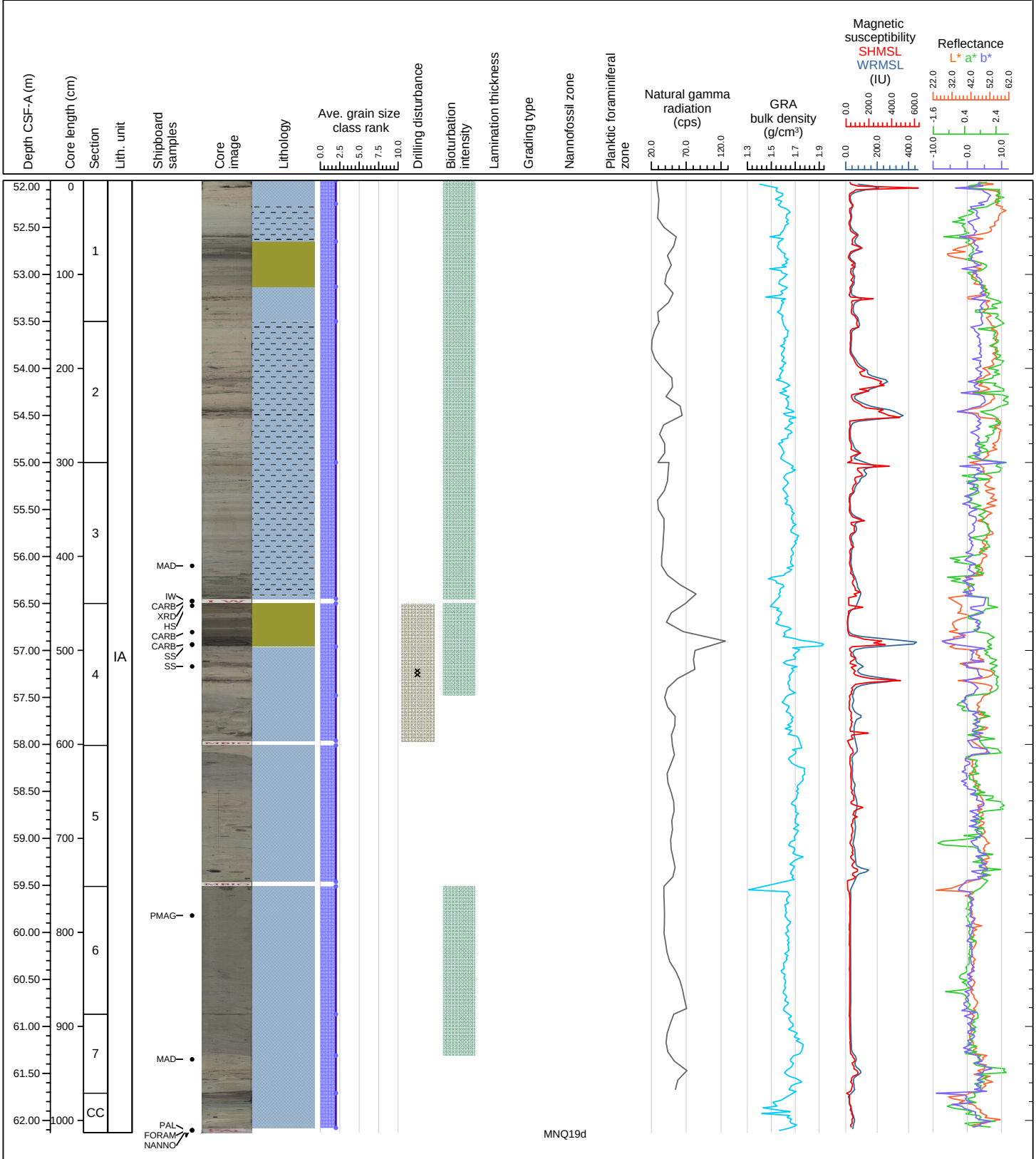
Hole 402-U1617A Core 6H, Interval 42.5-52.49 m (CSF-A)

Nannofossil ooze intercalated by sapropel and tephra layers. Glauconite is also present. Section 2 is entirely constituted by a debris flow, while section 3 contains a slump



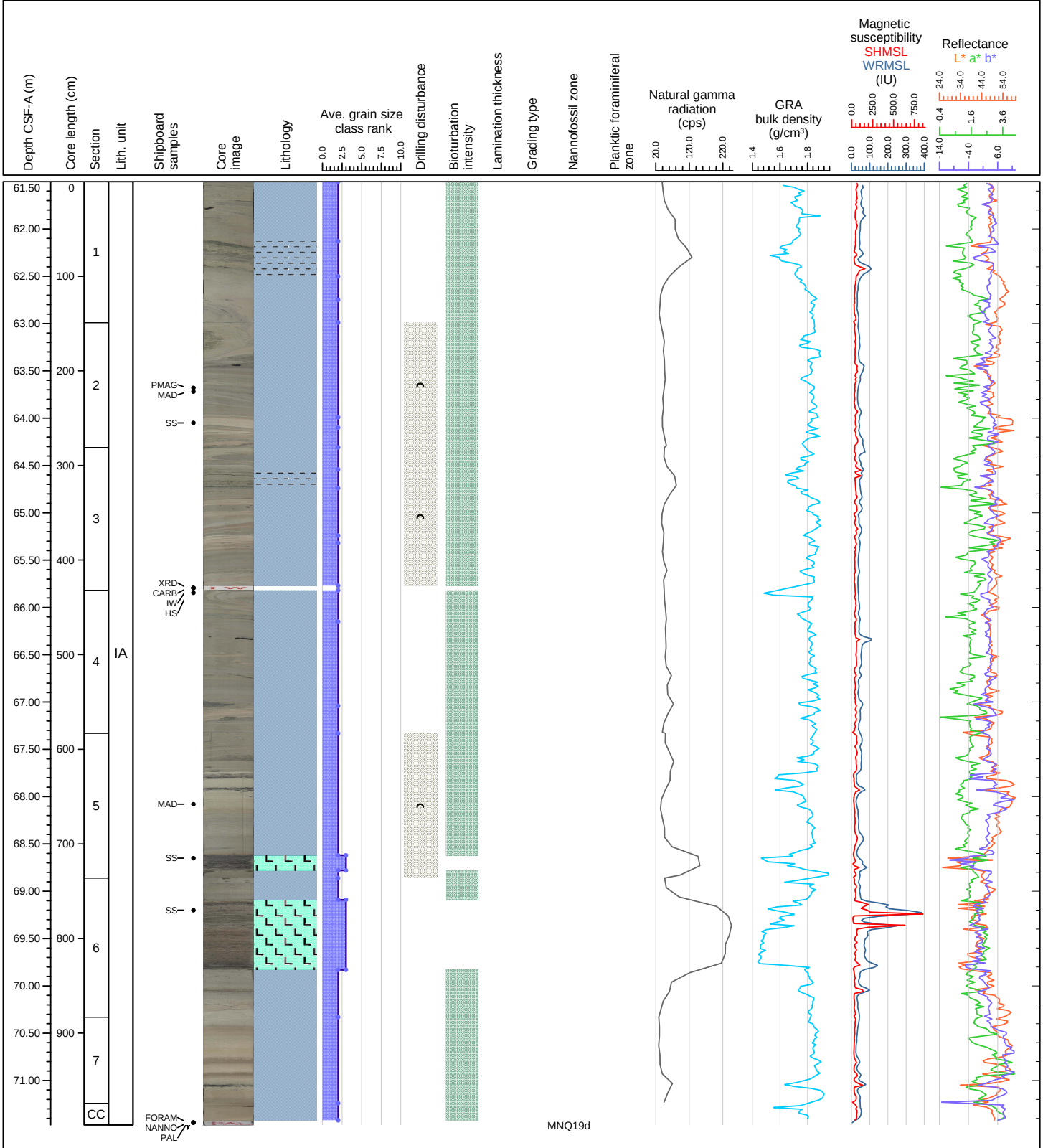
Hole 402-U1617A Core 7H, Interval 52.0-62.13 m (CSF-A)

Nannofossil ooze intercalated by sapropel and tephra layers. Glauconite is also present. Sections 5 and 7 are mostly constituted by a slump



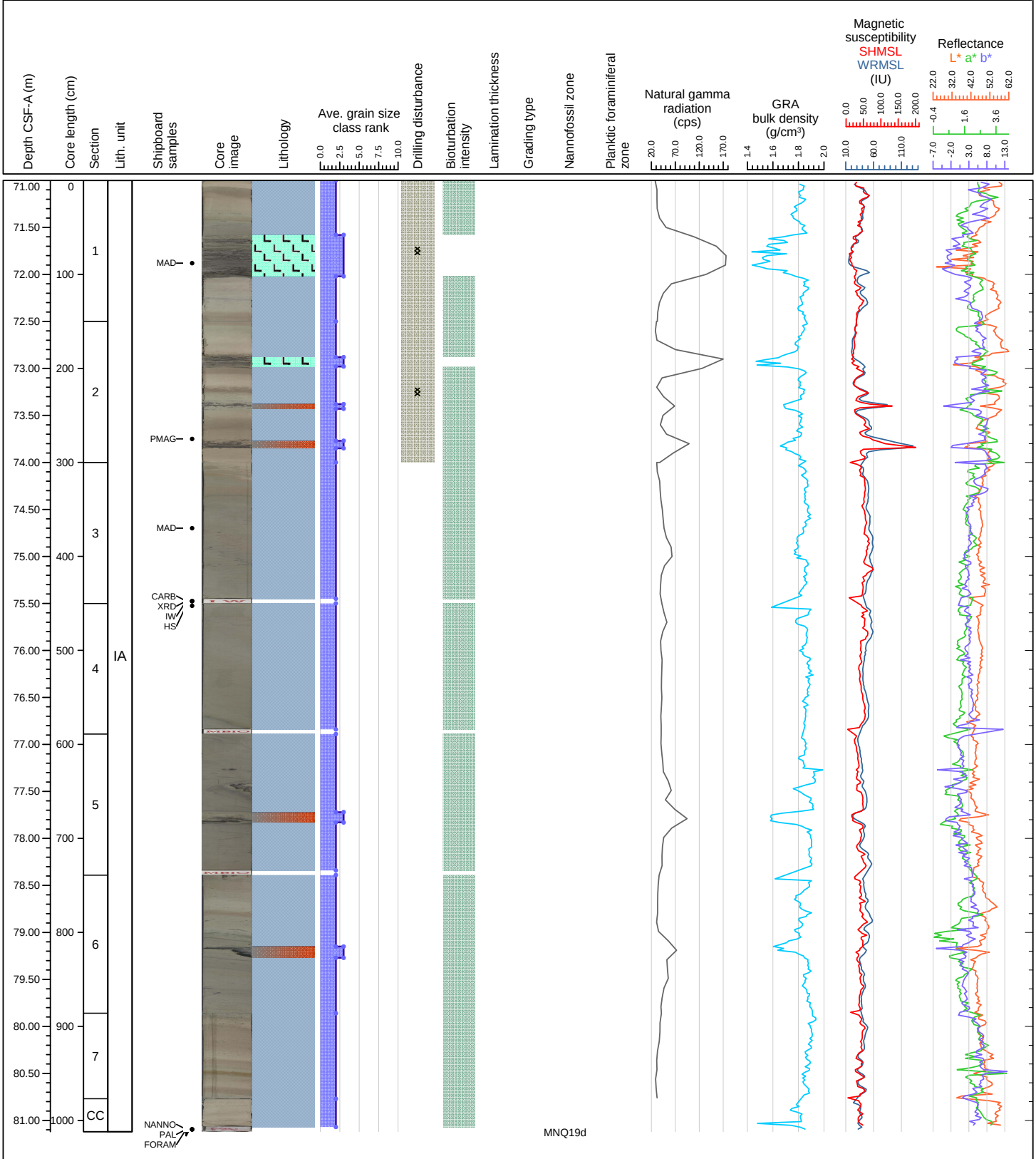
Hole 402-U1617A Core 8H, Interval 61.5-71.47 m (CSF-A)

Nannofossil ooze with highly deformed intervals. Presence of glauconite. Two thick, partially consolidated volcaniclastic silt layers in sections 5 and 6



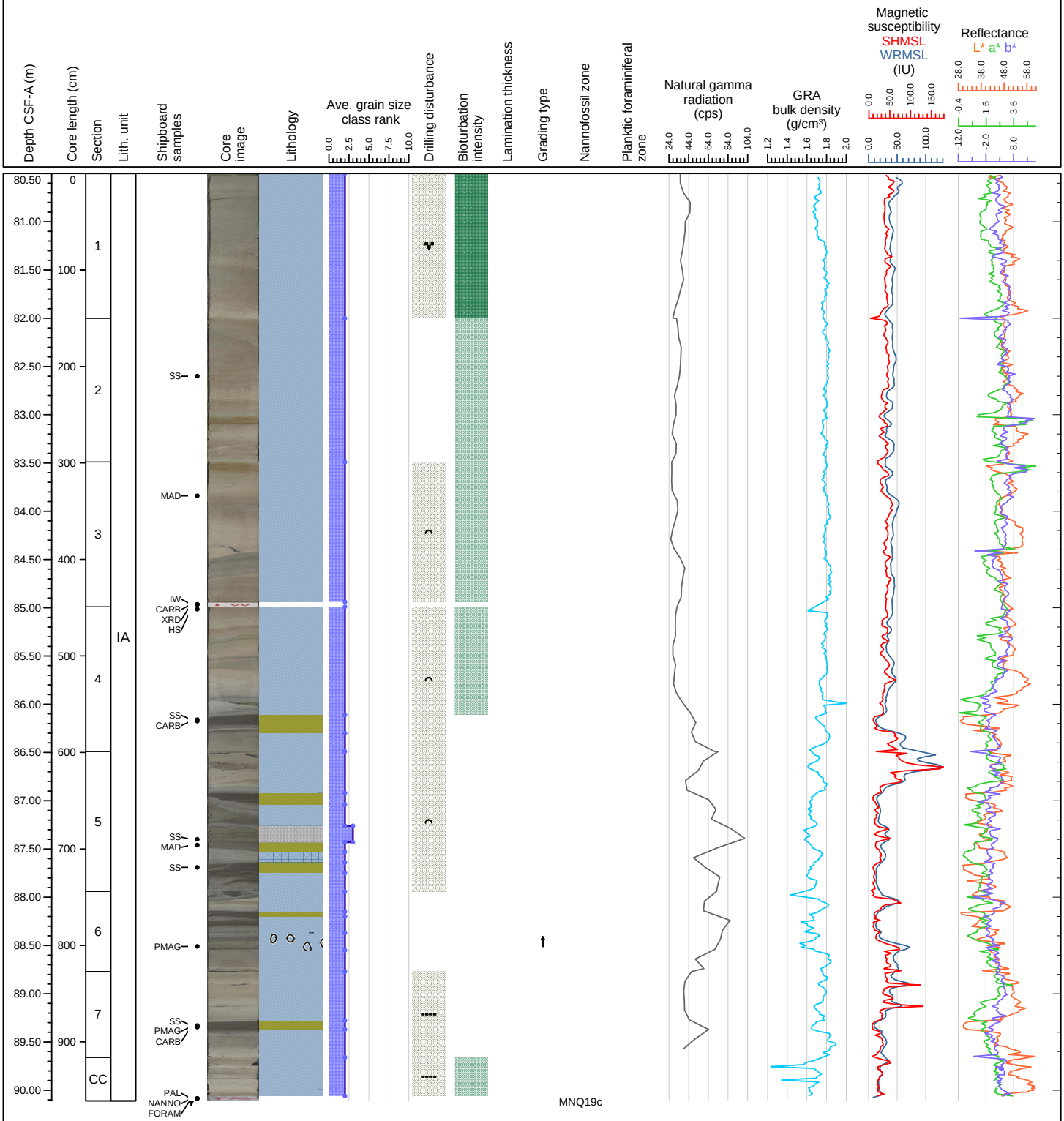
Hole 402-U1617A Core 9H, Interval 71.0-81.12 m (CSF-A)

Nannofossil ooze alternating with episodes of tephra deposition. Diagenetic alteration is present throughout



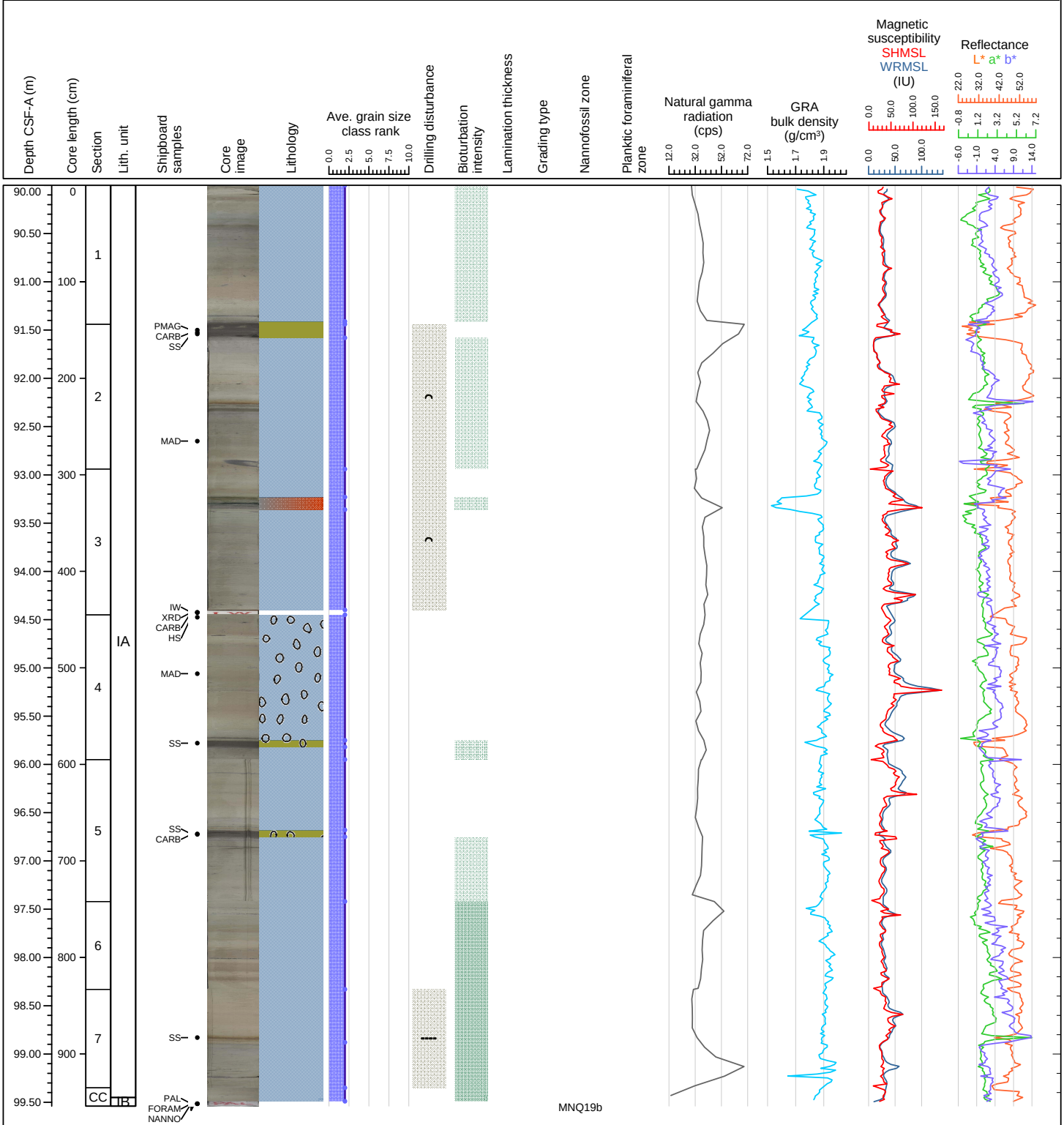
Hole 402-U1617A Core 10H, Interval 80.5-90.11 m (CSF-A)

Nannofossil ooze including mass transport deposits (MTDs), intercalated by sapropel layers. An ash layer and a foraminifer-rich nannofossil ooze are present in the lower section of the core.



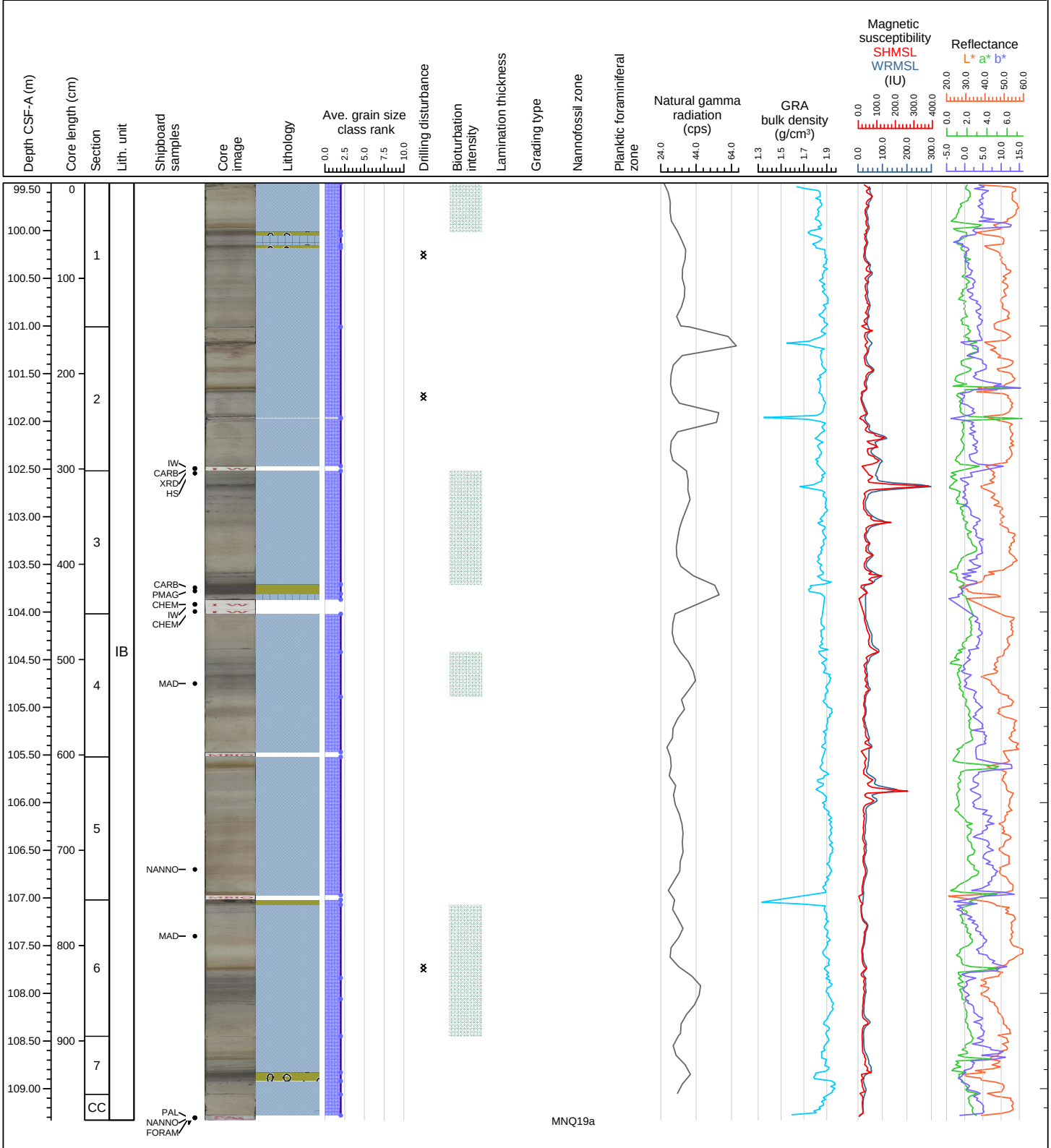
Hole 402-U1617A Core 11H, Interval 90.0-99.54 m (CSF-A)

Nannofossil ooze with some sections showing speckles of mud. Tephra and sapropel layers also present. Some sapropels are very rich in foraminifera. Drilling disturbance is limited to up-arching. Bioturbation present but low.



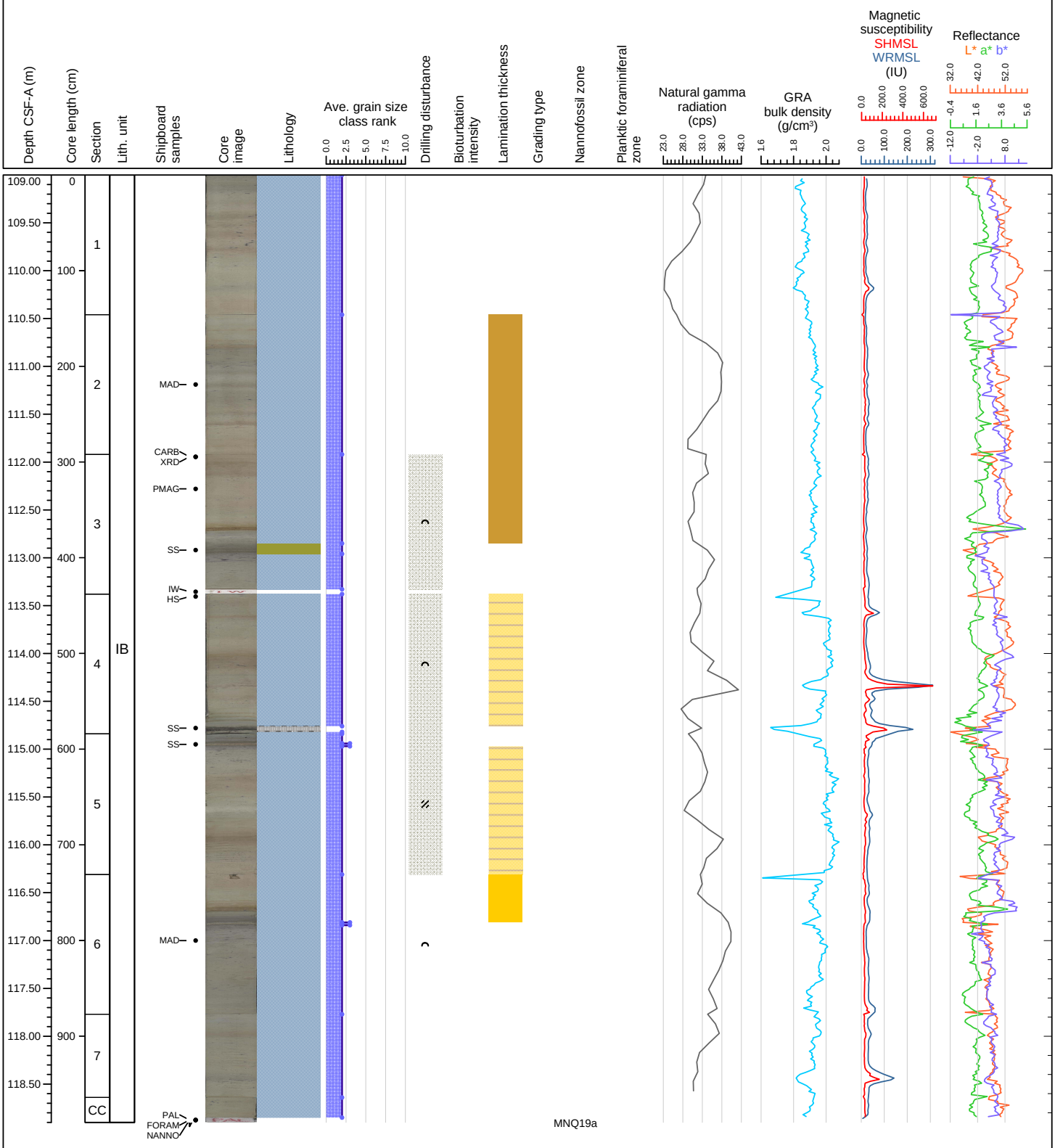
Hole 402-U1617A Core 12H, Interval 99.5-109.33 m (CSF-A)

Nannofossil ooze with sapropel layers, some sapropel layers are rich in foraminifera. Surface brecciated by core splitting.



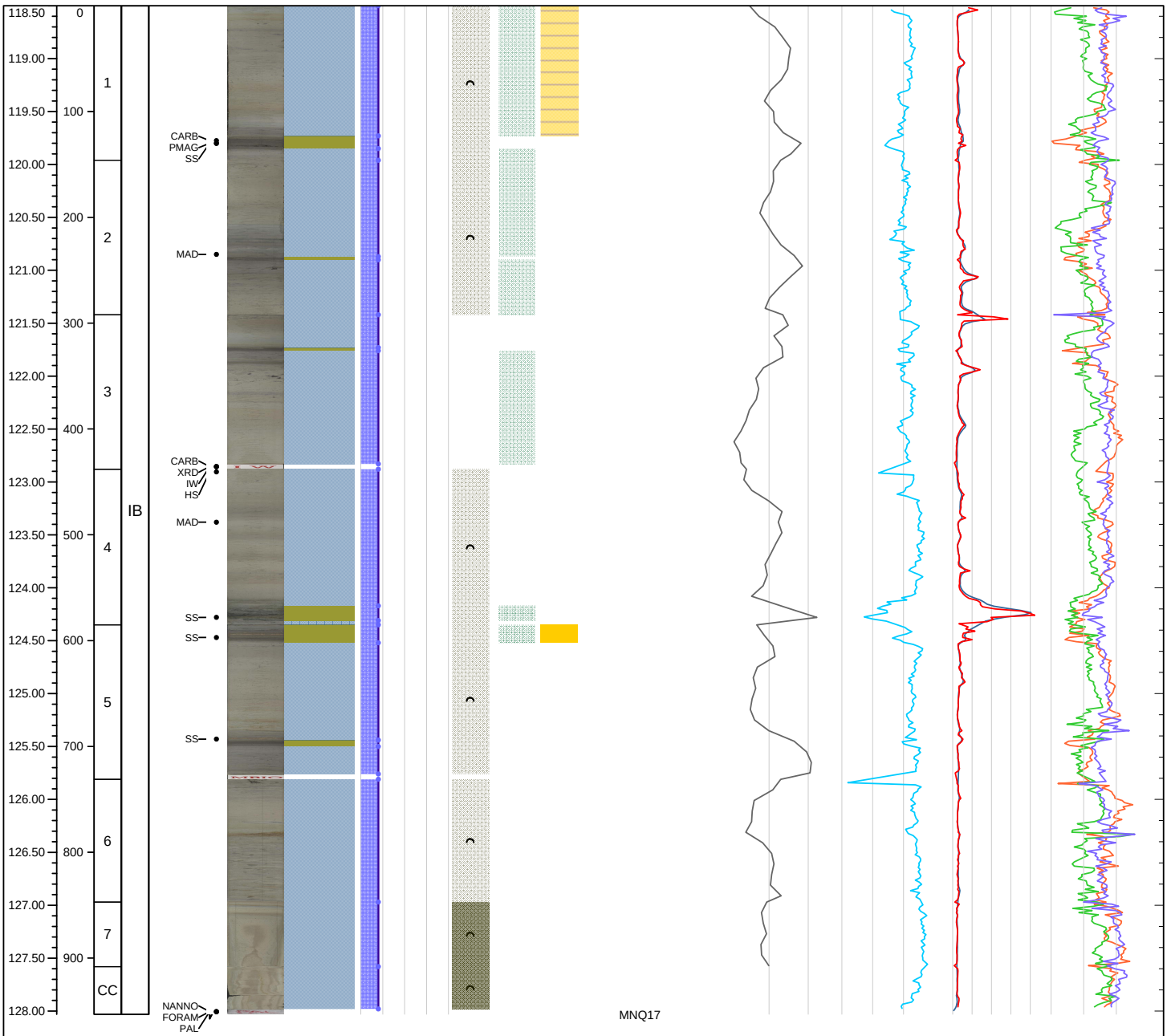
Hole 402-U1617A Core 13H, Interval 109.0-118.9 m (CSF-A)

Nannofossil ooze intercalated by layers of sapropel and glauconite-rich ash



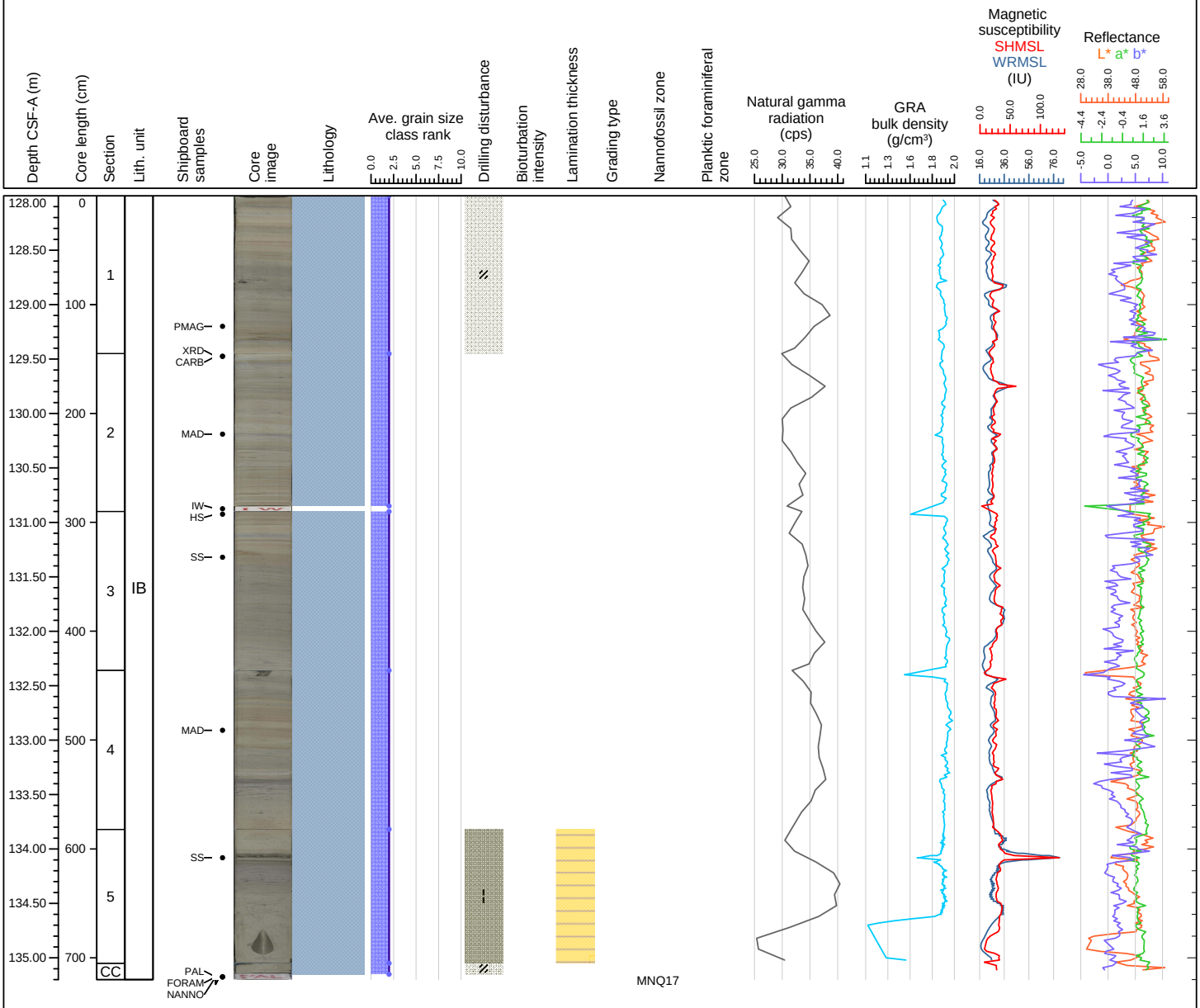
Hole 402-U1617A Core 14H, Interval 118.5-128.03 m (CSF-A)

Nannofossil ooze with sapropel. MTD at the base. Drilling disturbance caused extreme up-arching at base.



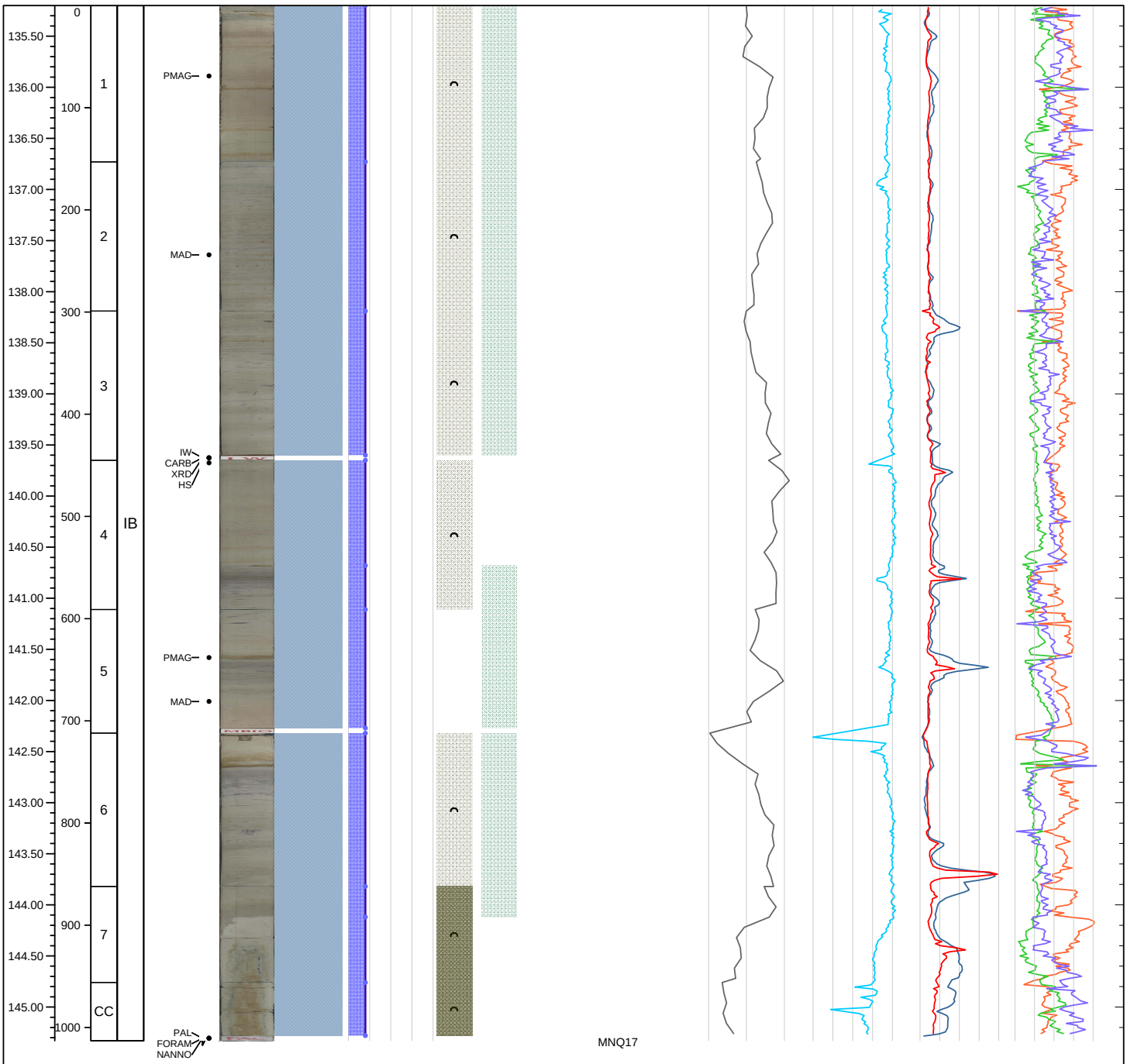
Hole 402-U1617A Core 15H, Interval 128.0-135.2 m (CSF-A)

Nannofossil ooze including MTD and characterized by a dark layer of organic material at the bottom



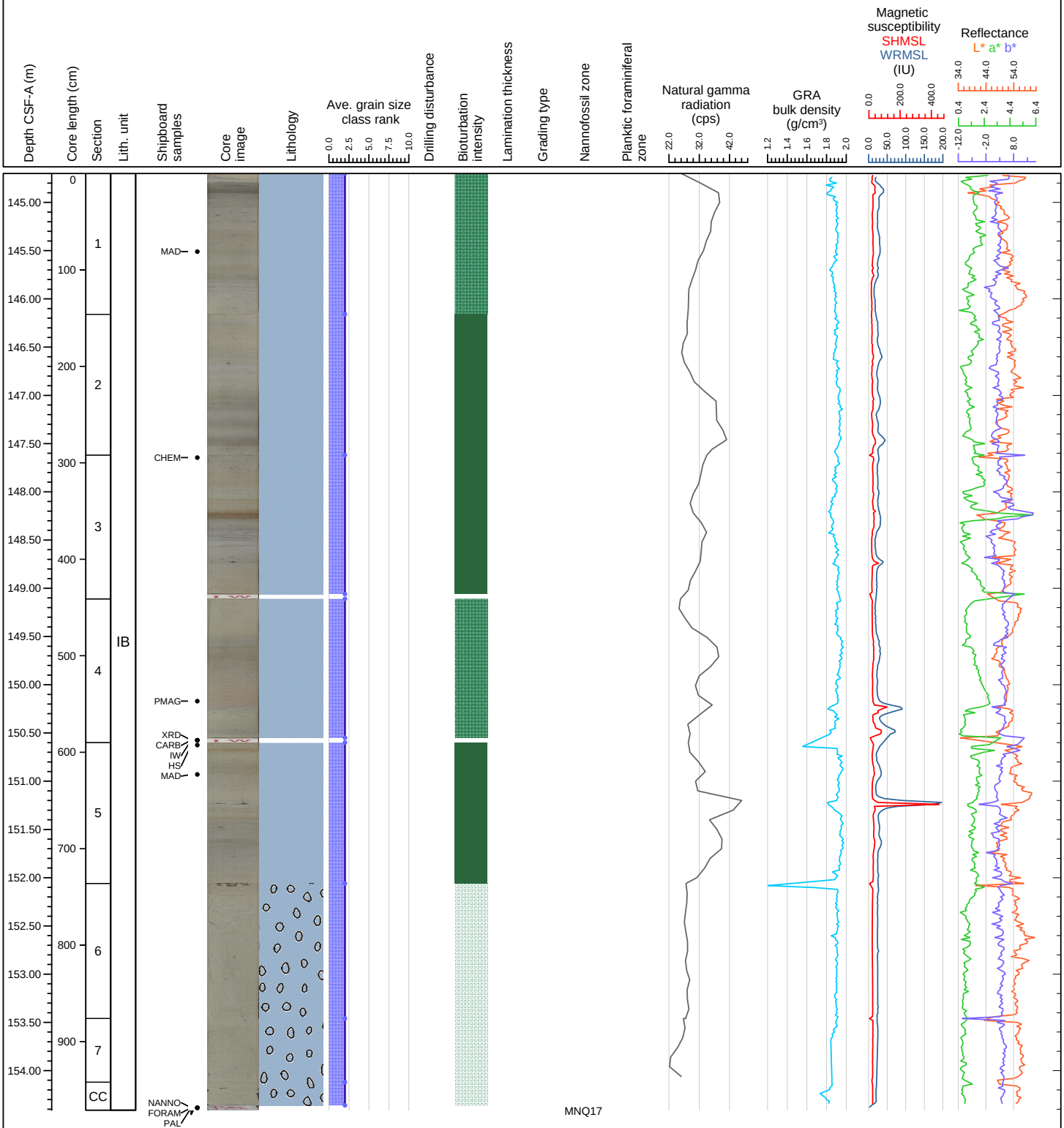
Hole 402-U1617A Core 16H, Interval 135.2-145.33 m (CSF-A)

Nannofossil ooze with some faint gray layers throughout. Bioturbation low but present. Some strong orange staining.



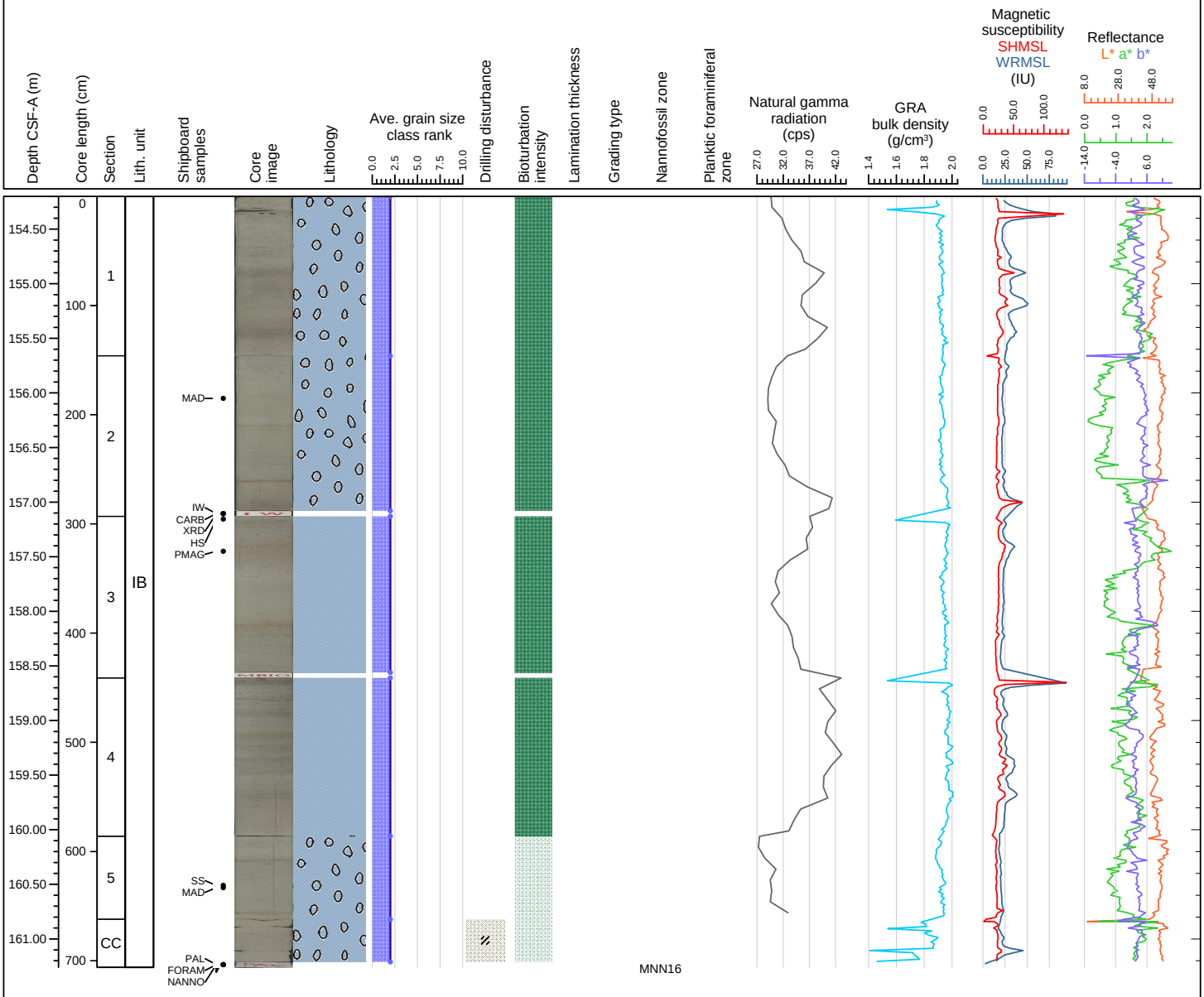
Hole 402-U1617A Core 17H, Interval 144.7-154.41 m (CSF-A)

Nannofossil ooze gradually transitioning to a higher forams content towards the end of the core. Bioturbation very pervasive, with both larger horizontal burrows and smaller pseudo-vertical ones. Occasional orange staining and pyrite are also present.



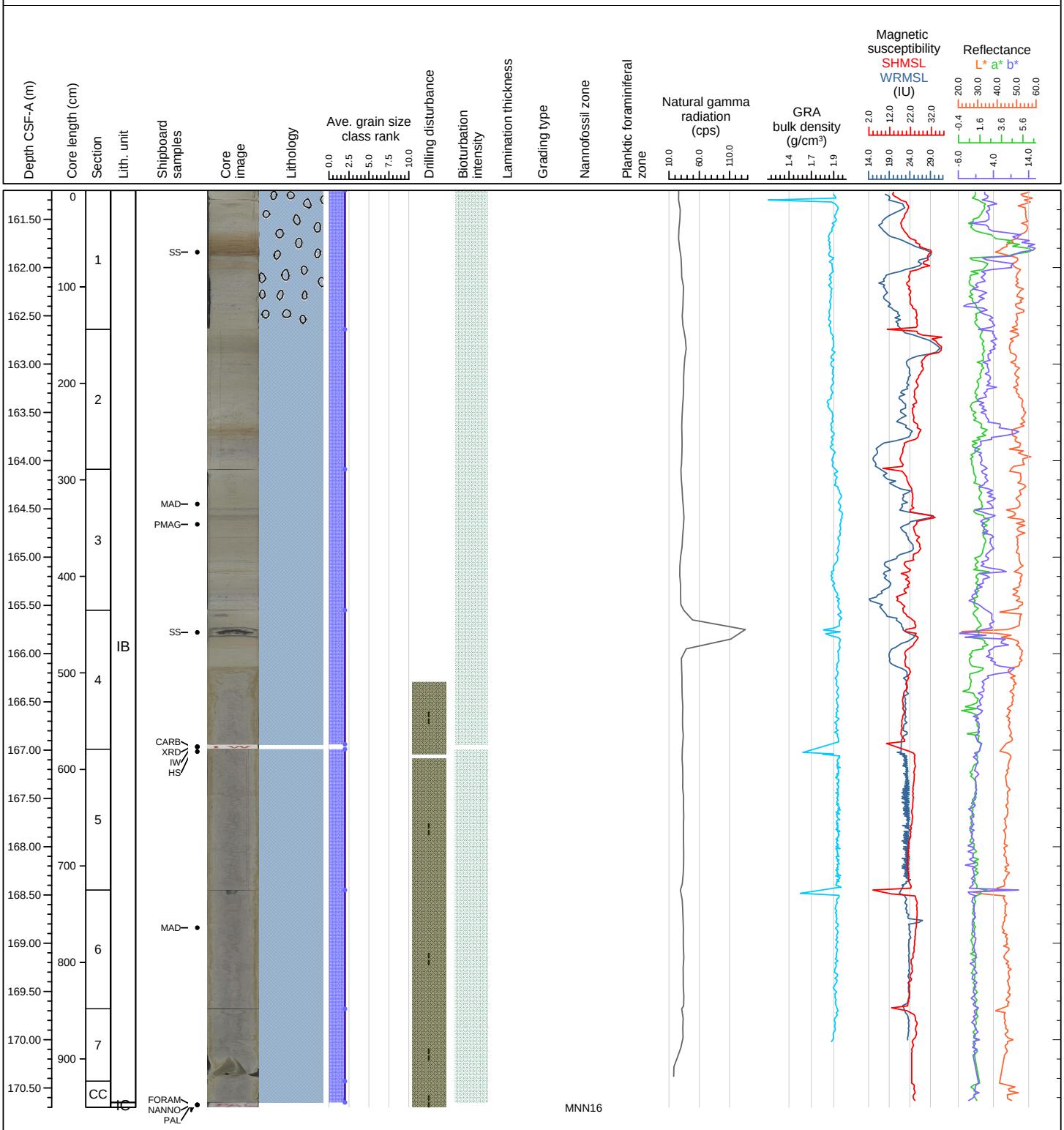
Hole 402-U1617A Core 18H, Interval 154.2-161.26 m (CSF-A)

Foraminifera-rich nannofossil ooze. Bioturbation very pervasive, with both larger horizontal burrows and smaller pseudo-vertical ones. Occasional orange staining present.



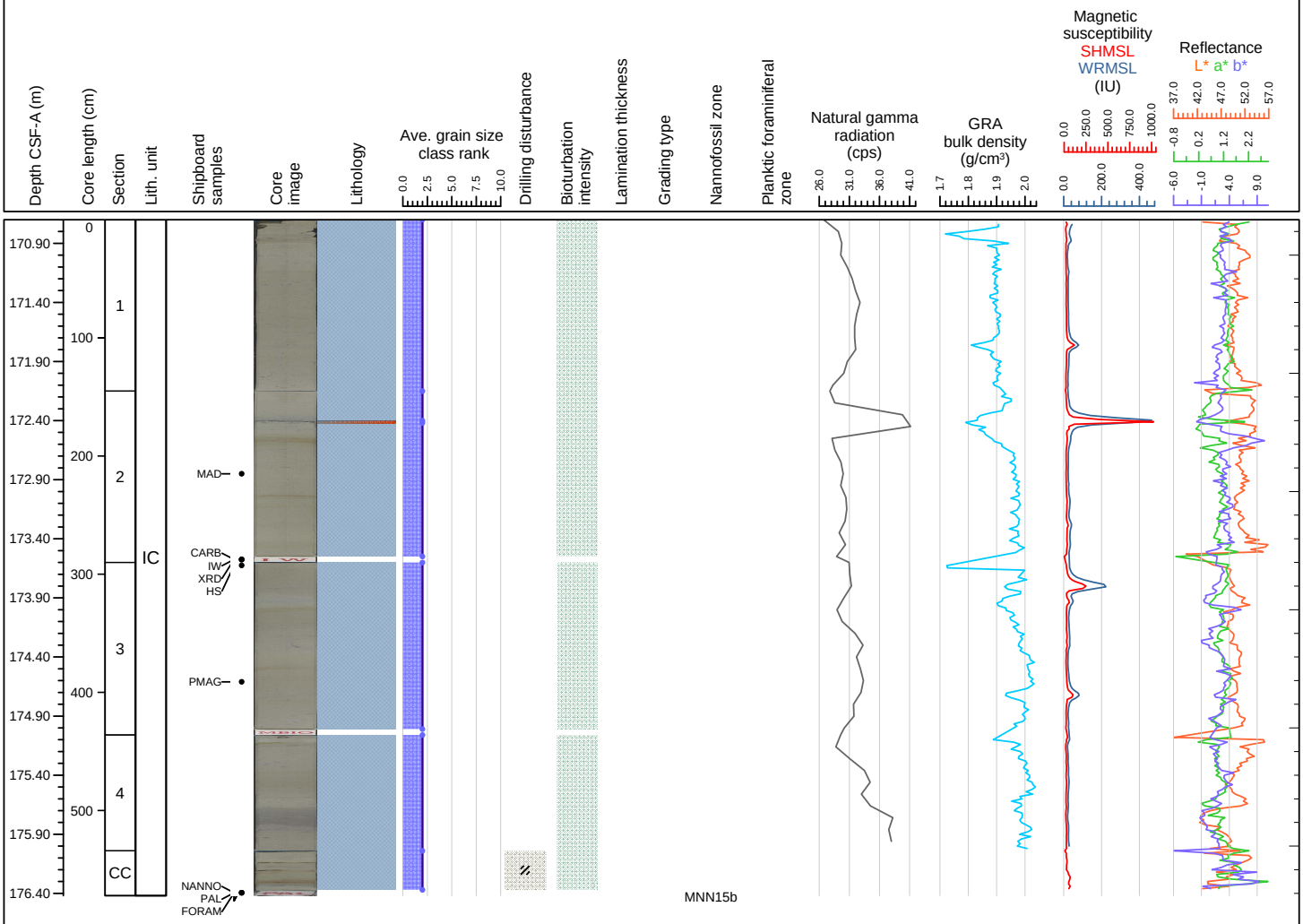
Hole 402-U1617A Core 19H, Interval 161.2-170.7 m (CSF-A)

Nannofossil ooze, heavy deformation in the bottom 4 sections



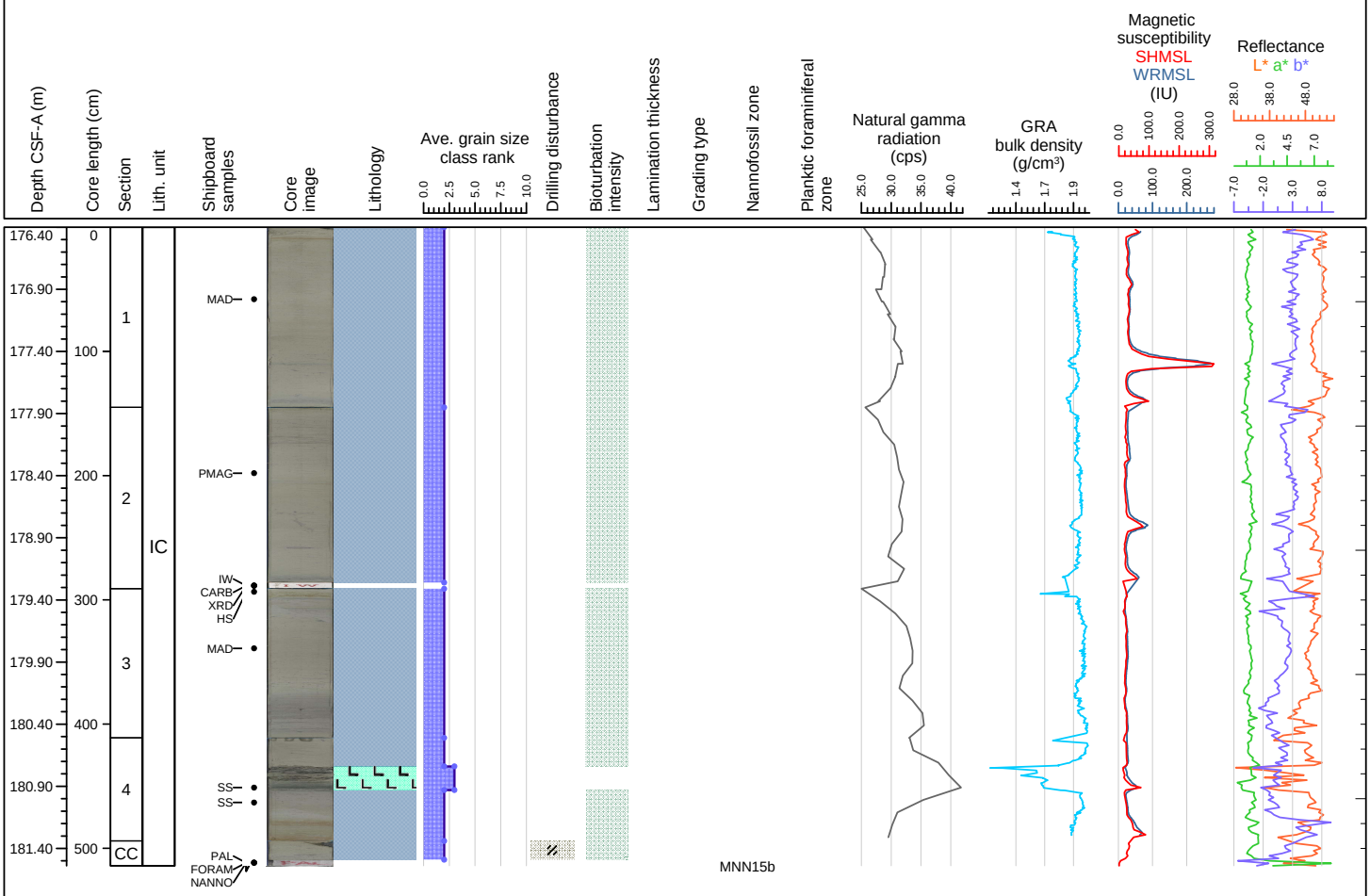
Hole 402-U1617A Core 20H, Interval 170.7-176.42 m (CSF-A)

Nannofossil ooze, presence of tephra in section 2



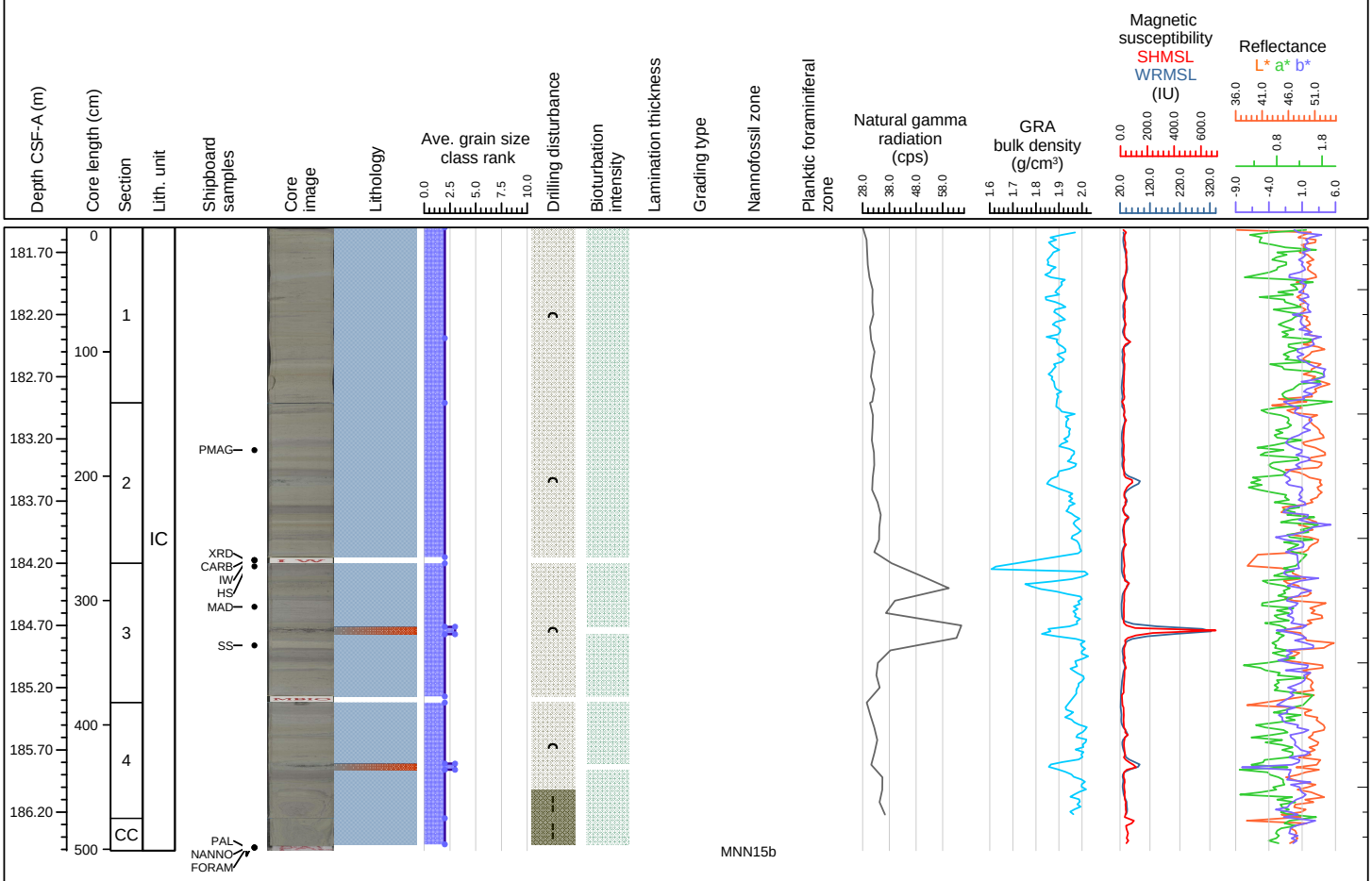
Hole 402-U1617A Core 21H, Interval 176.4-181.54 m (CSF-A)

Nannofossil ooze, presence of tephra in section 4



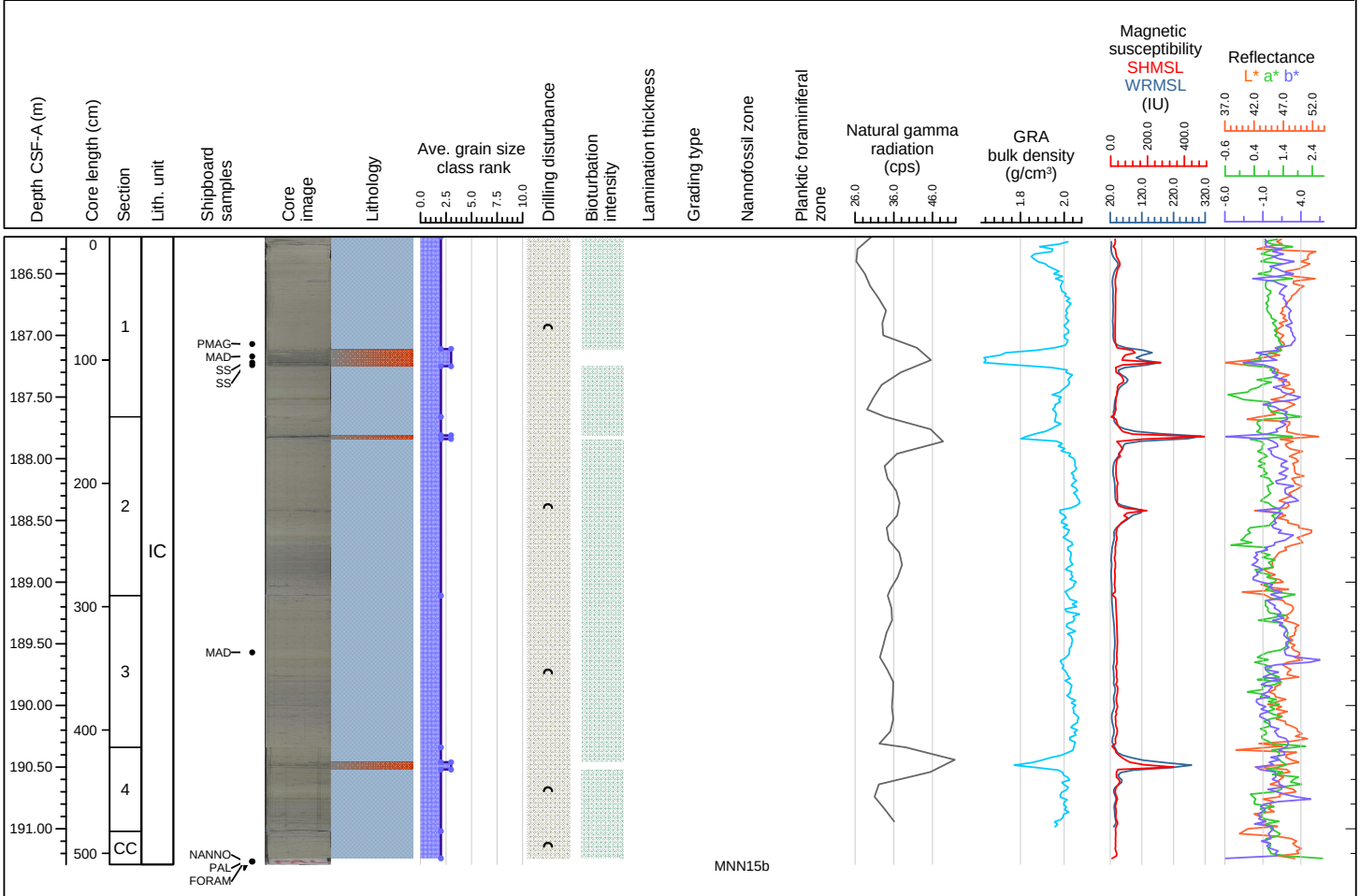
Hole 402-U1617A Core 22F, Interval 181.5-186.51 m (CSF-A)

Nannofossil ooze, possible slump bedding in section 1



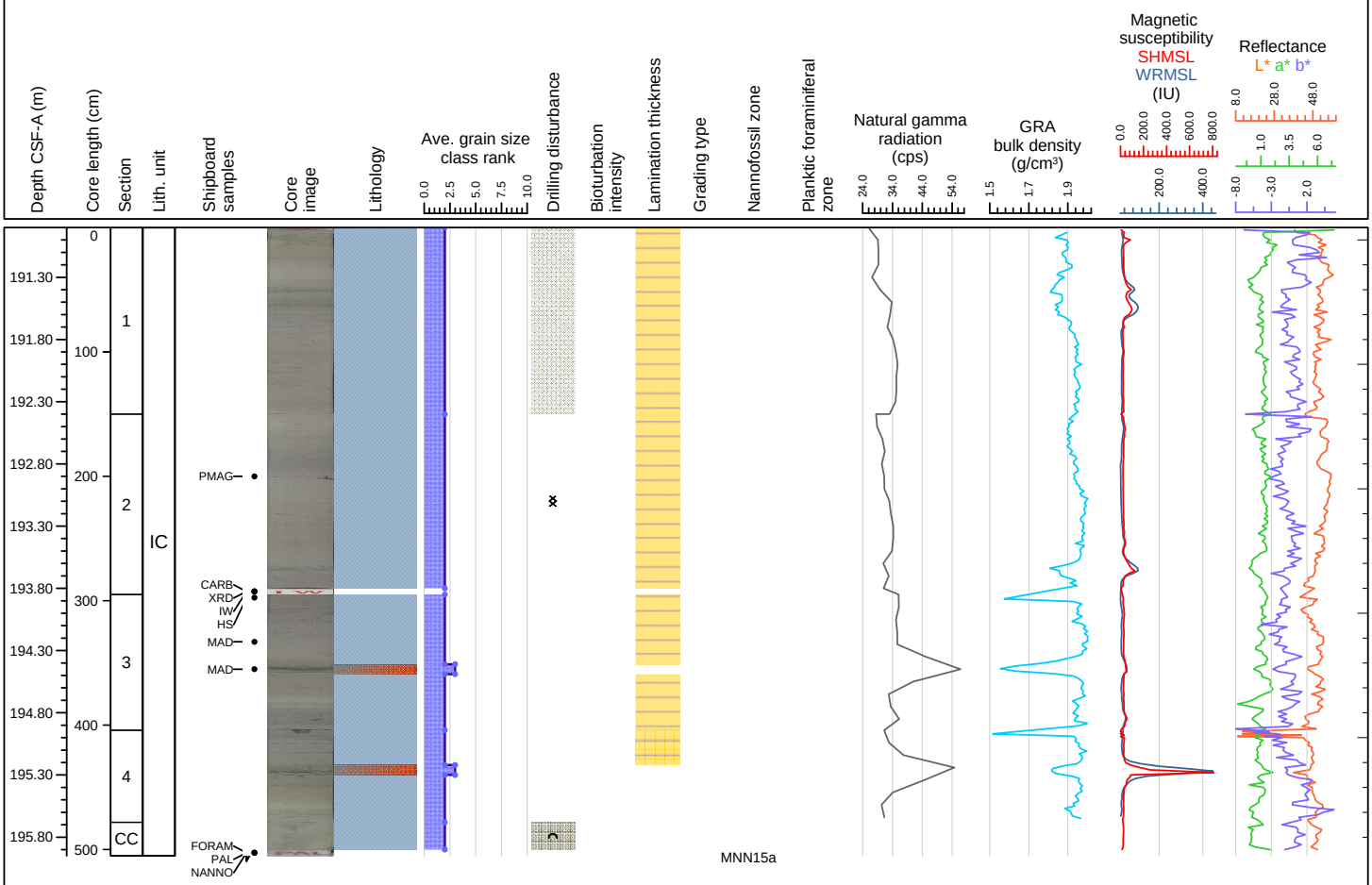
Hole 402-U1617A Core 23F, Interval 186.2-191.29 m (CSF-A)

Nannofossil ooze, several tephra layers which have undergone diagenetic alteration underlain by glauconite.



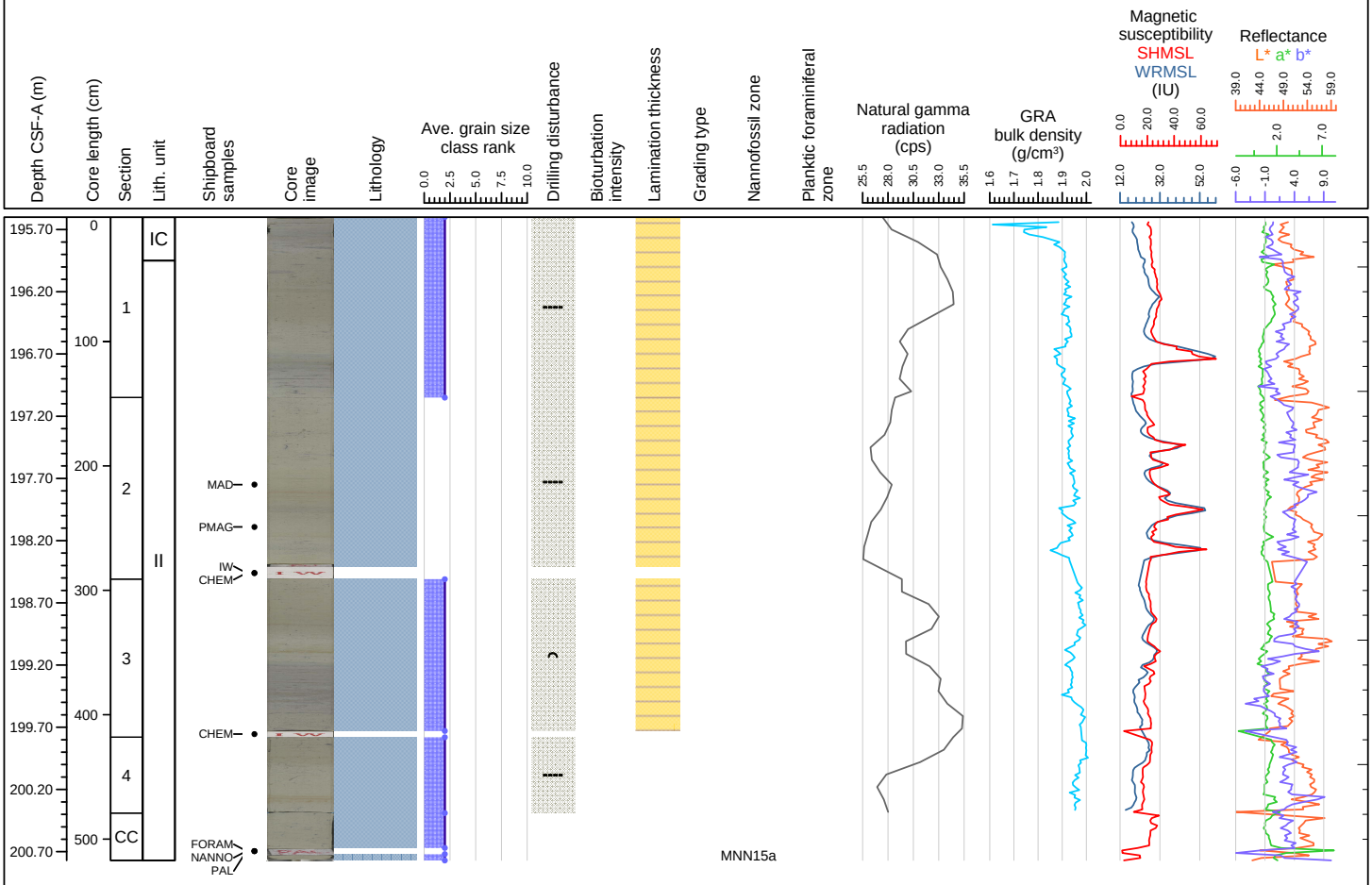
Hole 402-U1617A Core 24F, Interval 190.9-195.95 m (CSF-A)

Nannofossil ooze, intercalated by tephra layers bounded by glauconitic diagenetic structures in the lower part of the core.



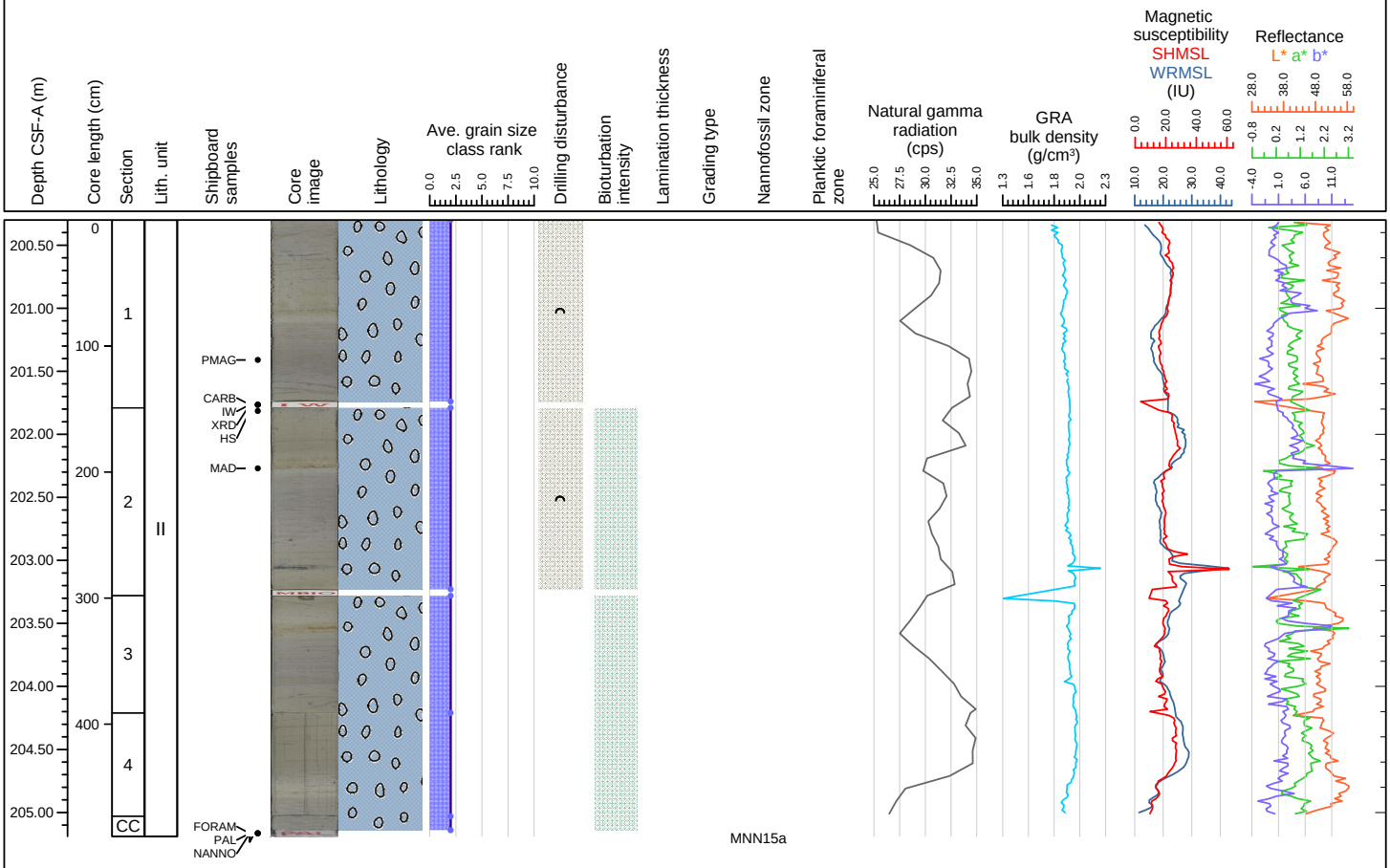
Hole 402-U1617A Core 25F, Interval 195.6-200.77 m (CSF-A)

Nannofossil ooze with brownish/greenish staining and dark gray laminations



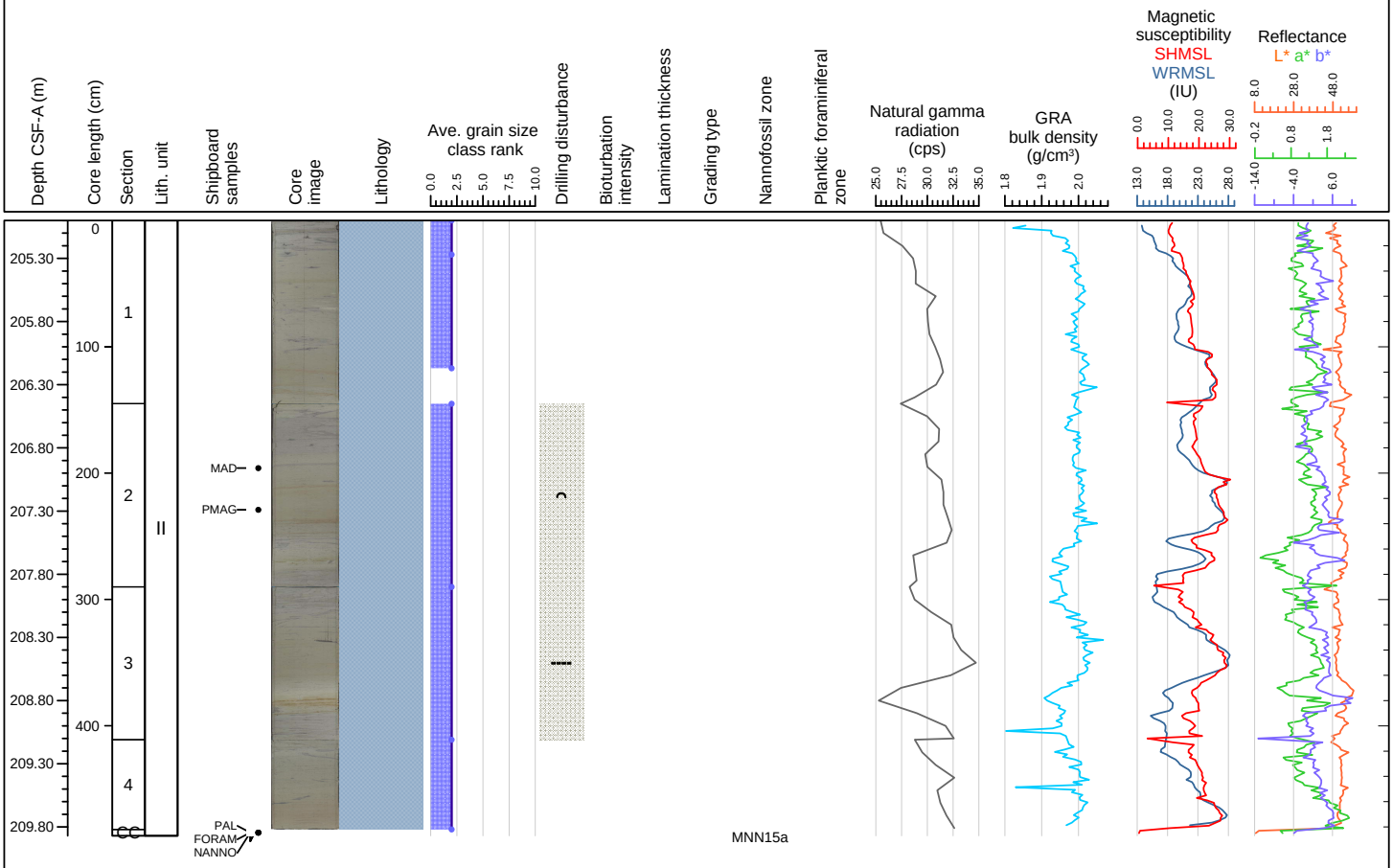
Hole 402-U1617A Core 26F, Interval 200.3-205.19 m (CSF-A)

Foraminifera-rich nannofossil ooze. Pyrite nodules present in section 2. Light bioturbation.



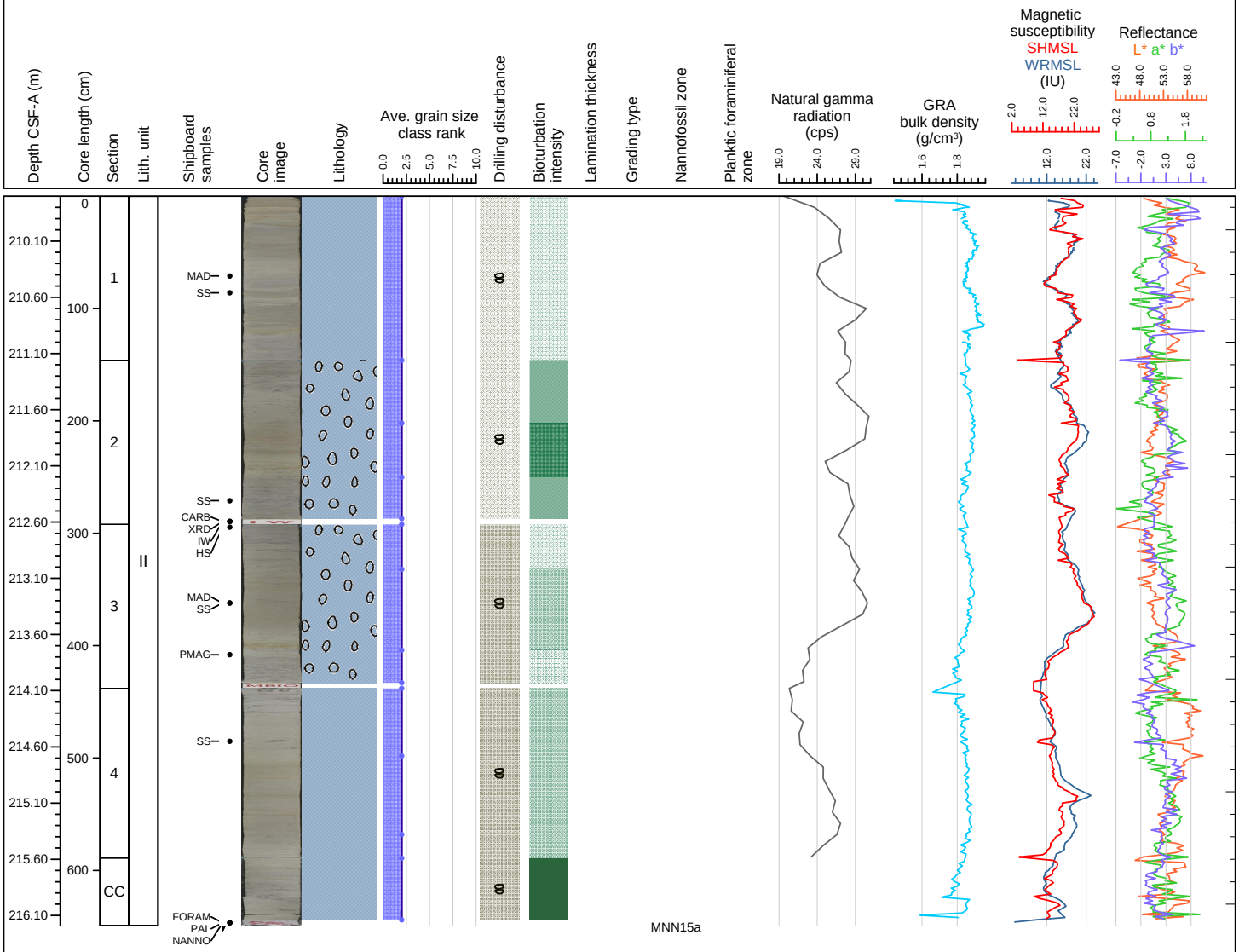
Hole 402-U1617A Core 27F, Interval 205.0-209.87 m (CSF-A)

Nannofossil ooze characterized by MTD throughout.



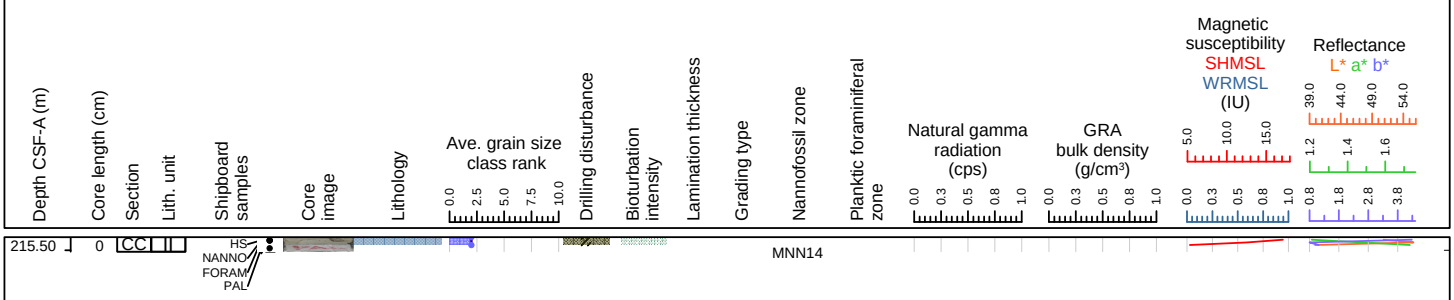
Hole 402-U1617A Core 28X, Interval 209.7-216.19 m (CSF-A)

Nannofossil ooze which transforms to foraminifera-rich nannofossil ooze after section 1. MTD and bioturbation throughout.



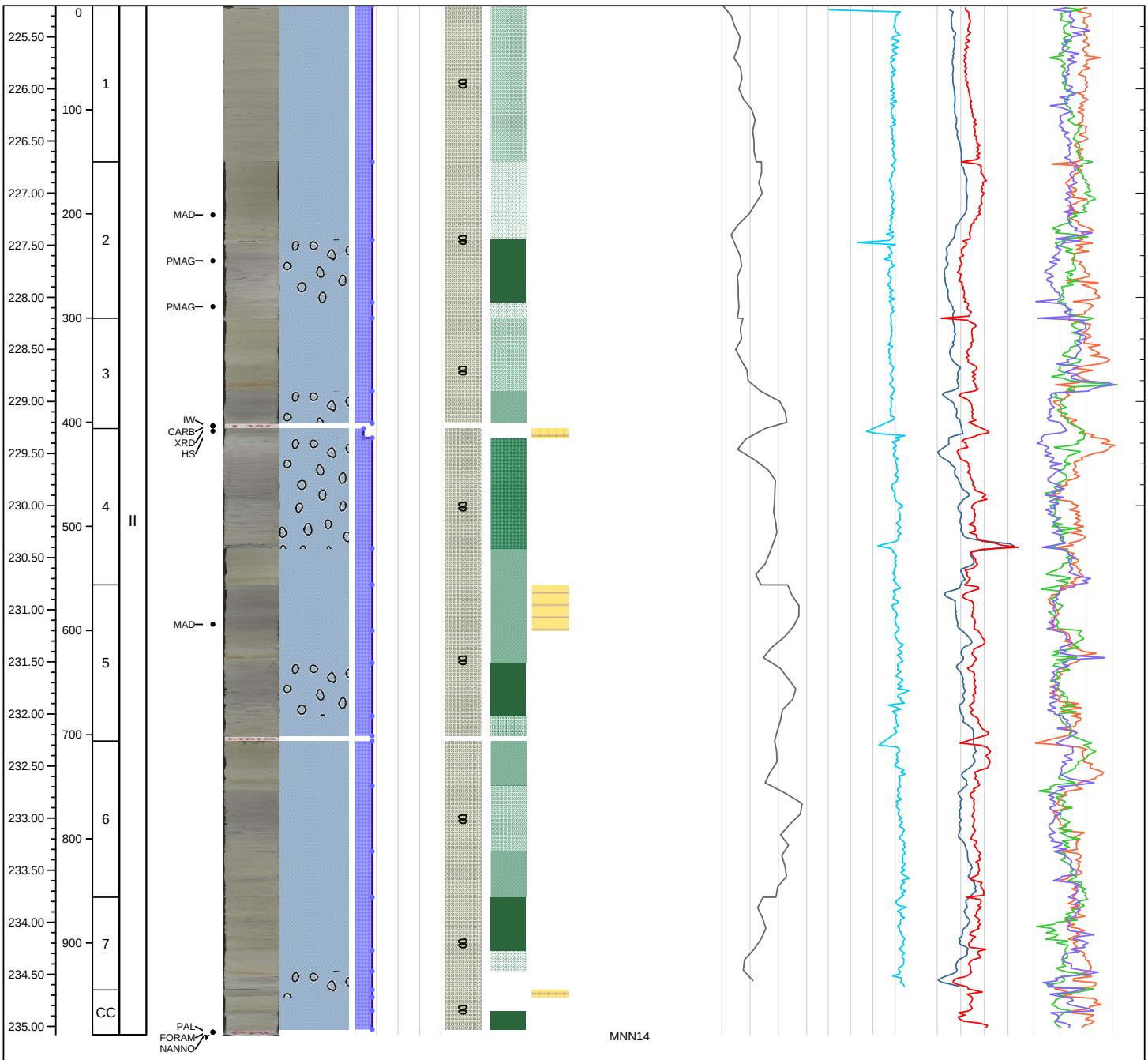
Hole 402-U1617A Core 29X, Interval 215.5-215.61 m (CSF-A)

Core catcher of nanofossil ooze



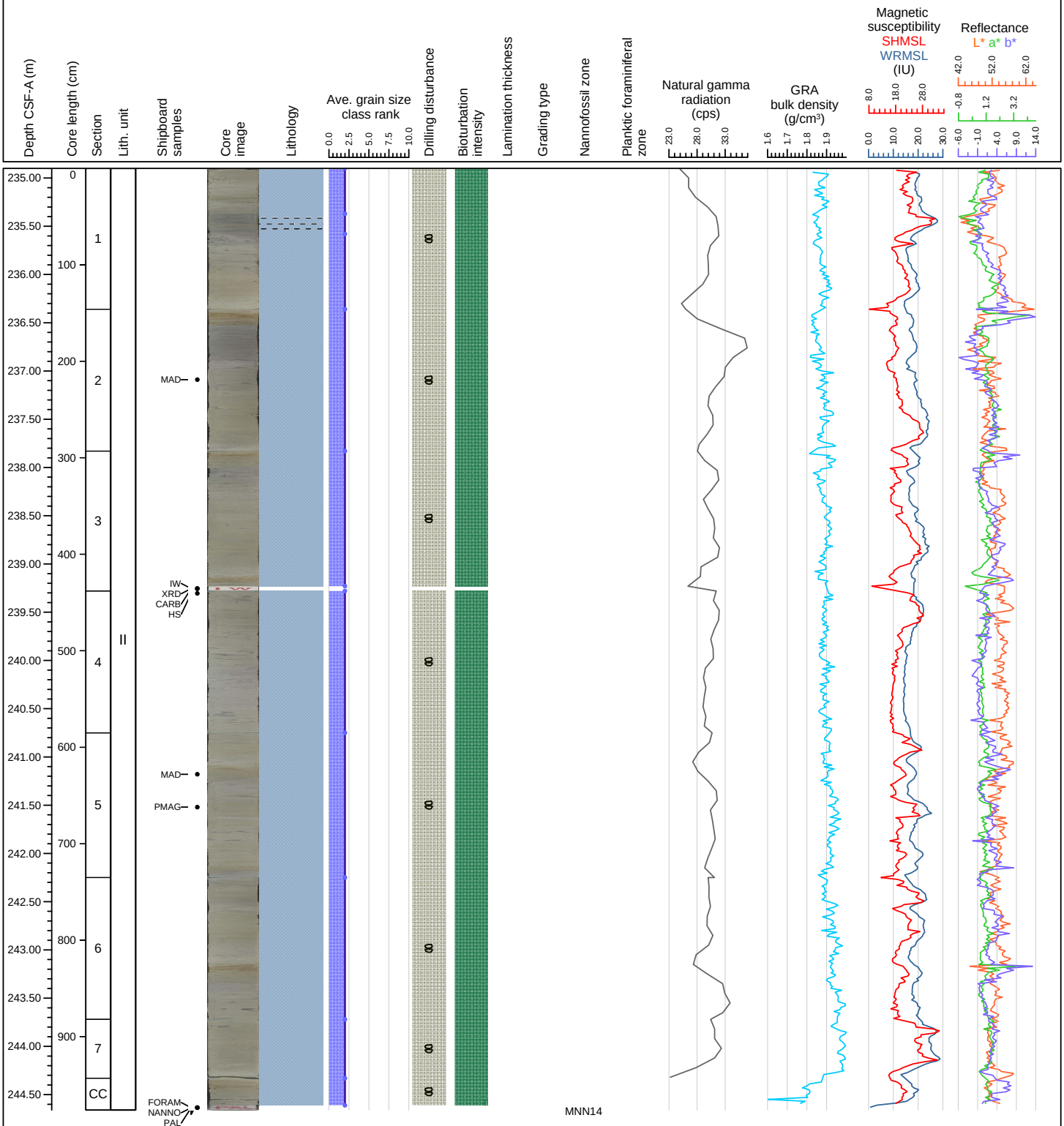
Hole 402-U1617A Core 30X, Interval 225.2-235.08 m (CSF-A)

Foraminifer-rich nannofossil ooze characterized by occasional pyrite clusters and nodules, and strongly disturbed by biscuiting



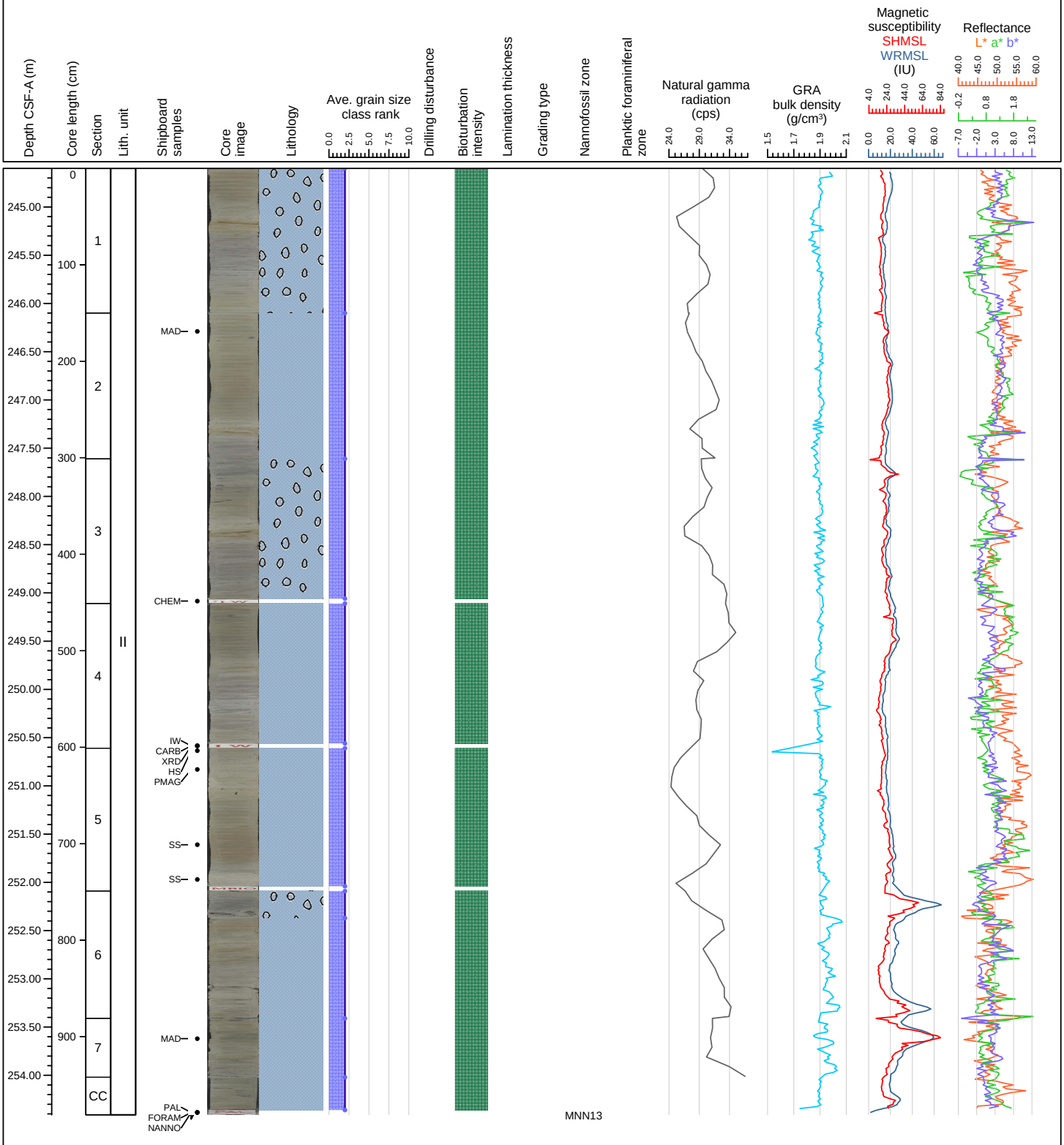
Hole 402-U1617A Core 31X, Interval 234.9-244.66 m (CSF-A)

Nannofossil ooze, locally foraminifera-rich characterized by occasional pyrite clusters and remineralization of burrows. Strong disturbance by biscuiting. Bioturbation is pervasive, both as chondrites, as well as (larger) zoophycos burrows



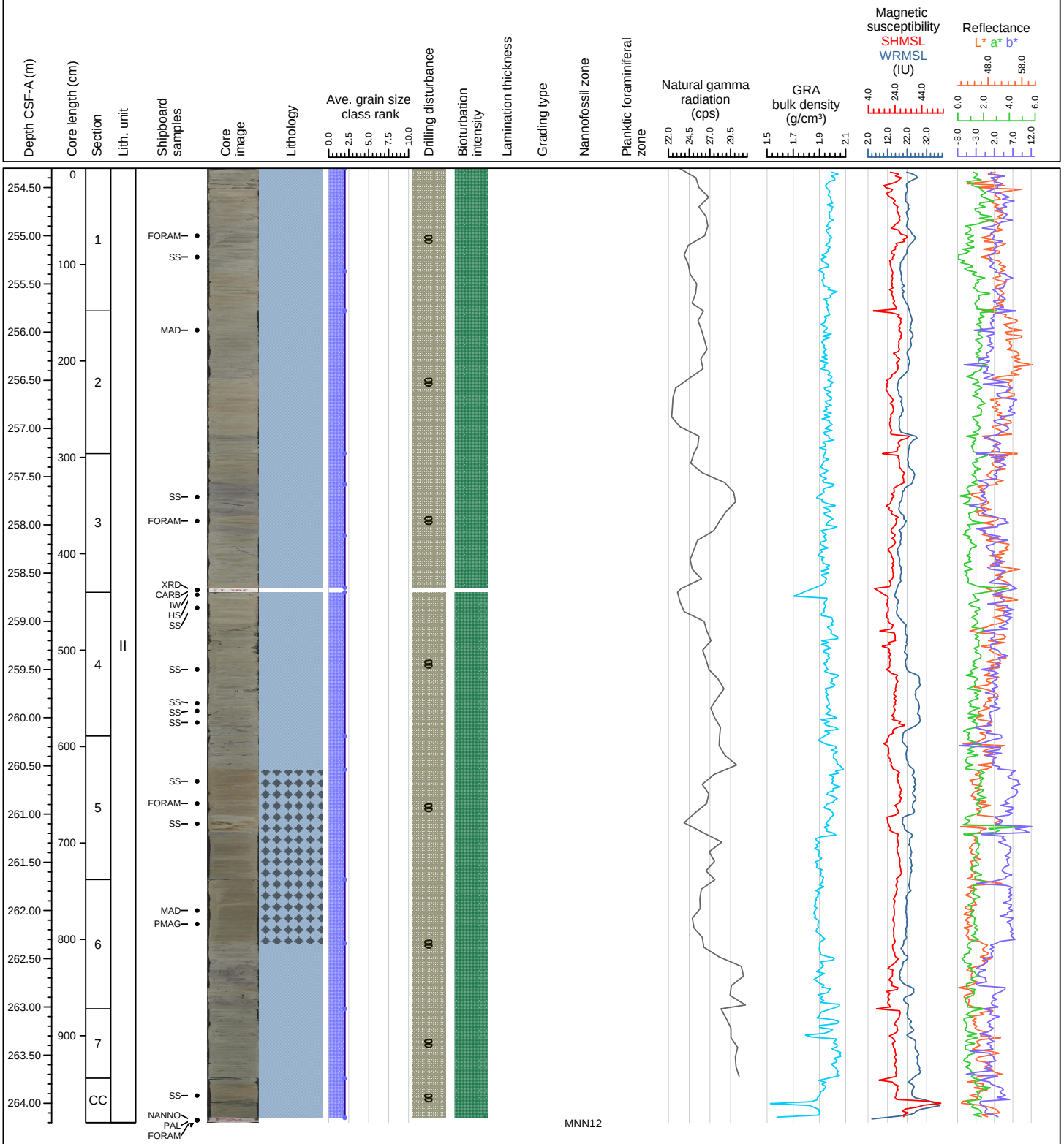
Hole 402-U1617A Core 32X, Interval 244.6-254.41 m (CSF-A)

Nannofossil ooze, locally foraminifera-rich characterized by occasional pyrite clusters and remineralization of burrows. Strong disturbance by biscuiting. Bioturbation is pervasive, both as chondrites, as well as (larger) zoophycos burrows



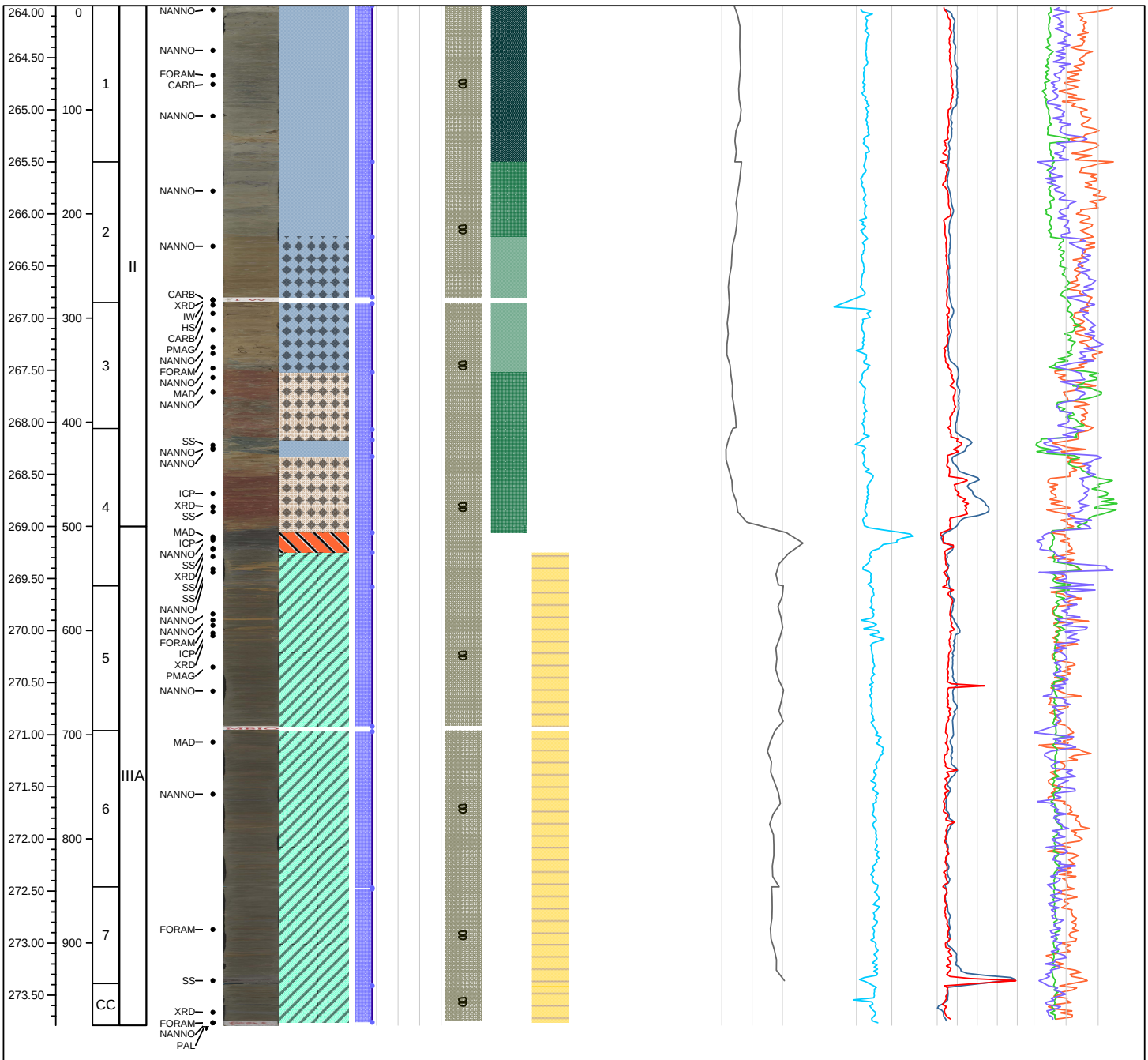
Hole 402-U1617A Core 33X, Interval 254.3-264.2 m (CSF-A)

Nannofossil ooze, locally foraminifera-rich characterized by occasional pyrite clusters. Strong disturbance by biscuiting. Bioturbation is pervasive, both as chondrites, as well as (larger) zoophycos burrows



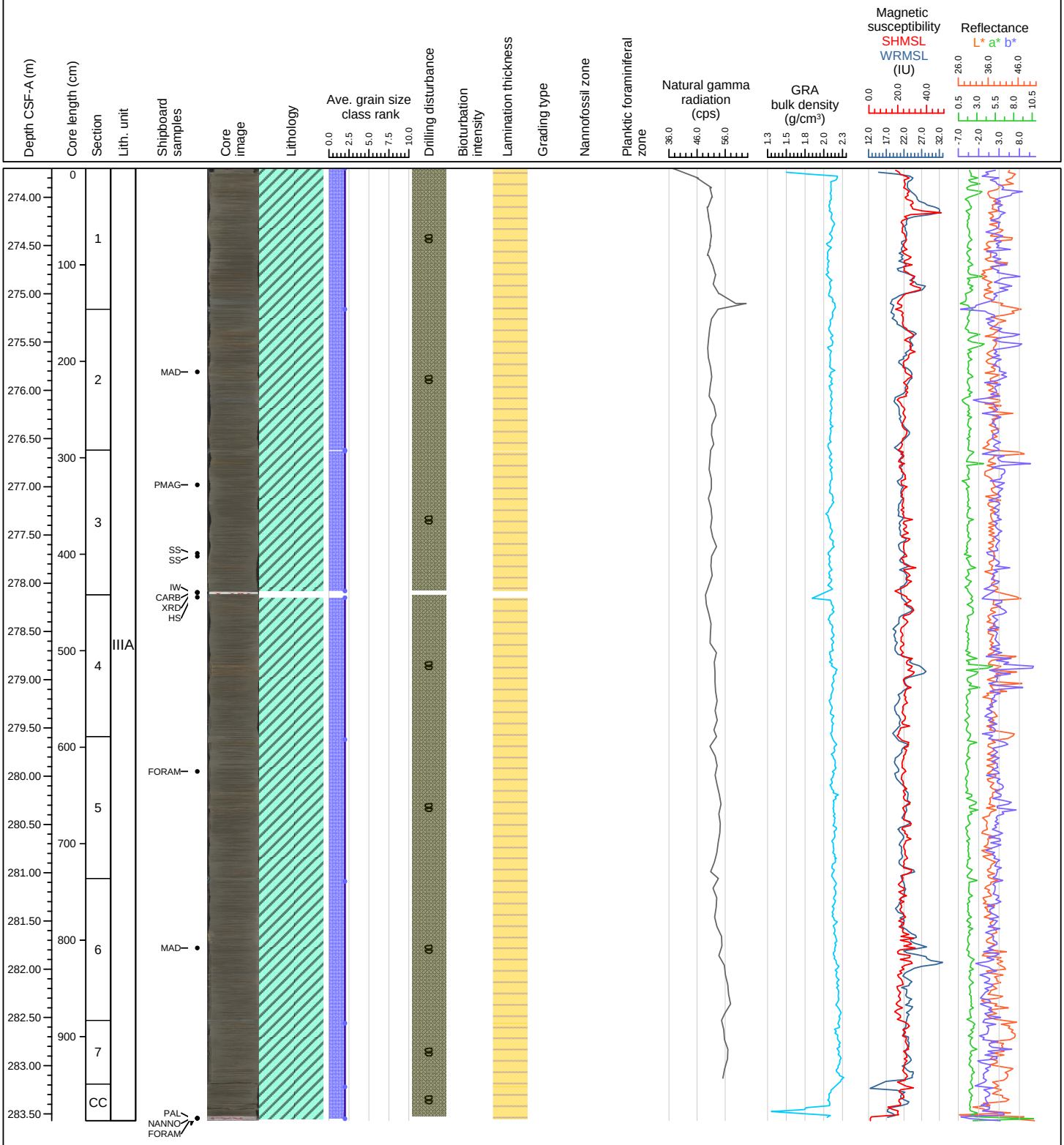
Hole 402-U1617A Core 34X, Interval 264.0-273.79 m (CSF-A)

This core represent the transition between pelagic deposition and the evaporitic facies, happening at 99 cm in section 4, with the first occurrence of gypsum precipitates. Reddish colors correspond to oxides rich sediments, presumably subaerially exposed. The evaporitic facies do not show bioturbation whereas the first 3 sections are intensely affected by it



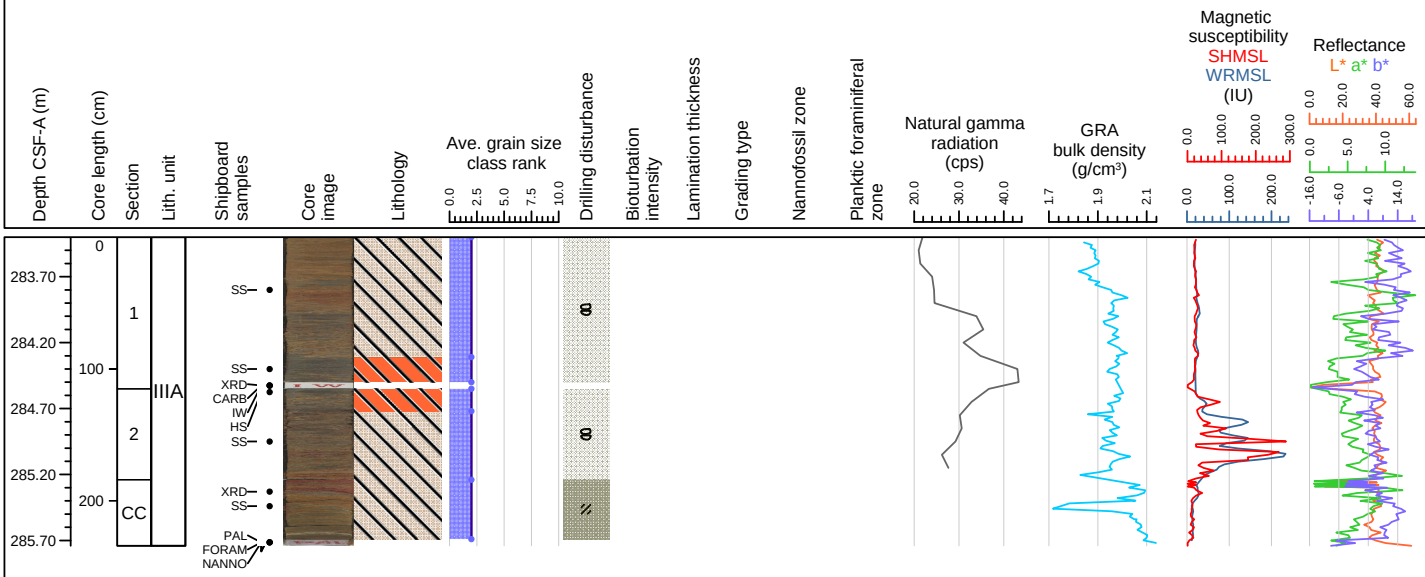
Hole 402-U1617A Core 35X, Interval 273.7-283.57 m (CSF-A)

Silt with sparse nannofossil, finely laminated, possibly indicative of a marine facies



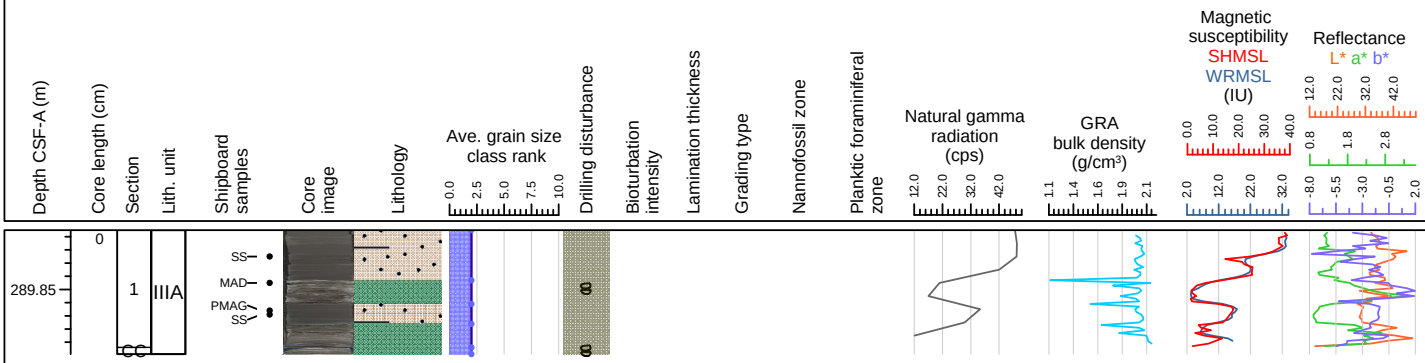
Hole 402-U1617A Core 36X, Interval 283.4-285.74 m (CSF-A)

Oxide-rich mud intercalated by gypsum-rich clay



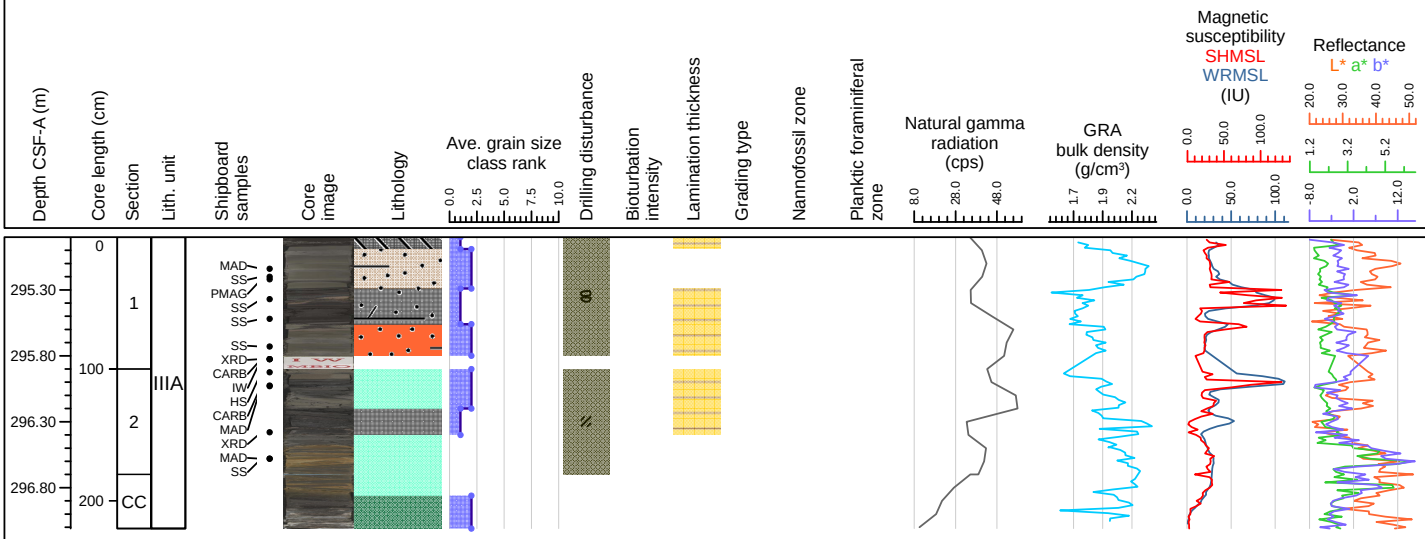
Hole 402-U1617A Core 37X, Interval 289.4-290.34 m (CSF-A)

Nannofossil ooze intercalated by gypsum intervals



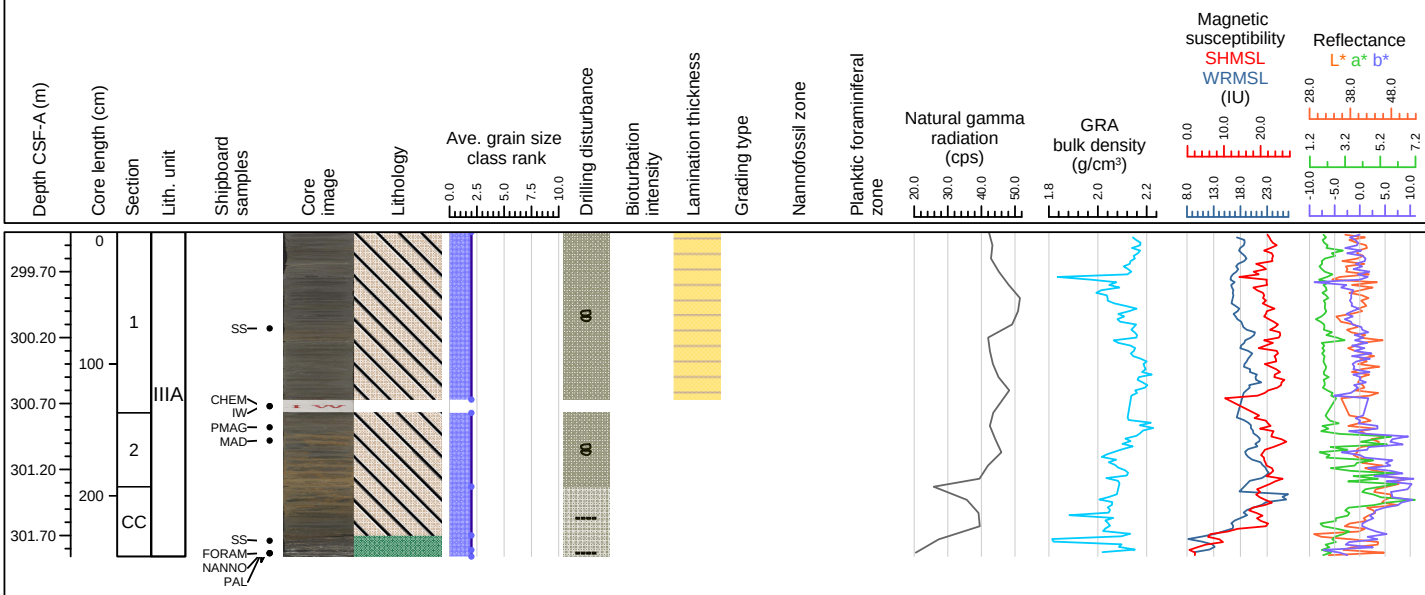
Hole 402-U1617A Core 38X, Interval 294.9-297.11 m (CSF-A)

Nannofossil ooze intercalated by black shale and a gypsum layer at the bottom of the core.



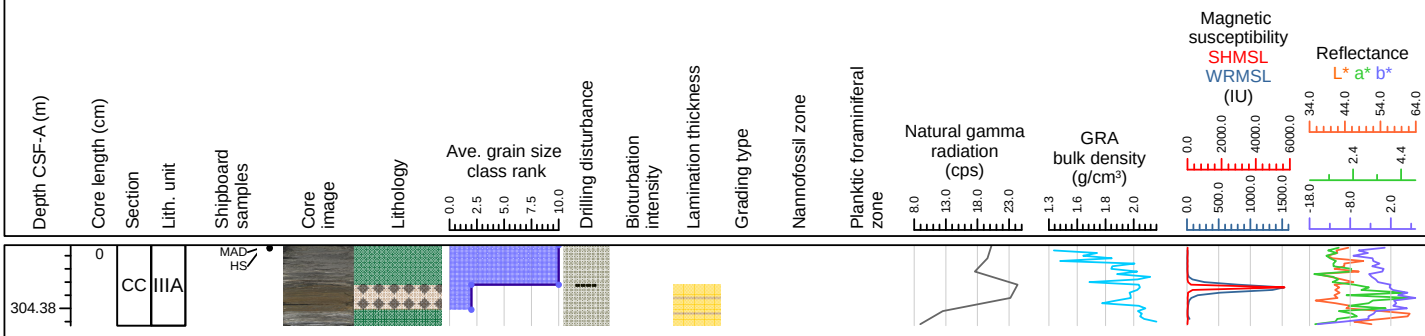
Hole 402-U1617A Core 39X, Interval 299.4-301.86 m (CSF-A)

Gypsum-rich mud at the top and gypsum with mud at the bottom.



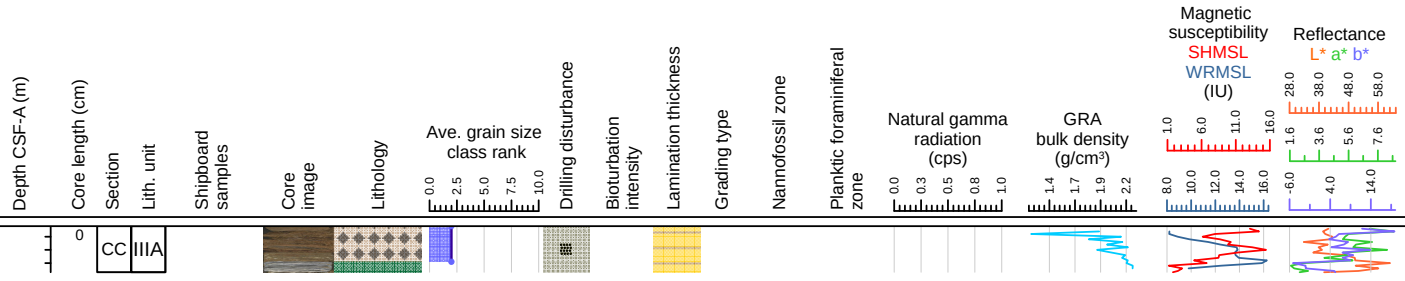
Hole 402-U1617A Core 40X, Interval 303.9-304.51 m (CSF-A)

Gypsum, sometimes with mud, intercalated with oxid-rich mud



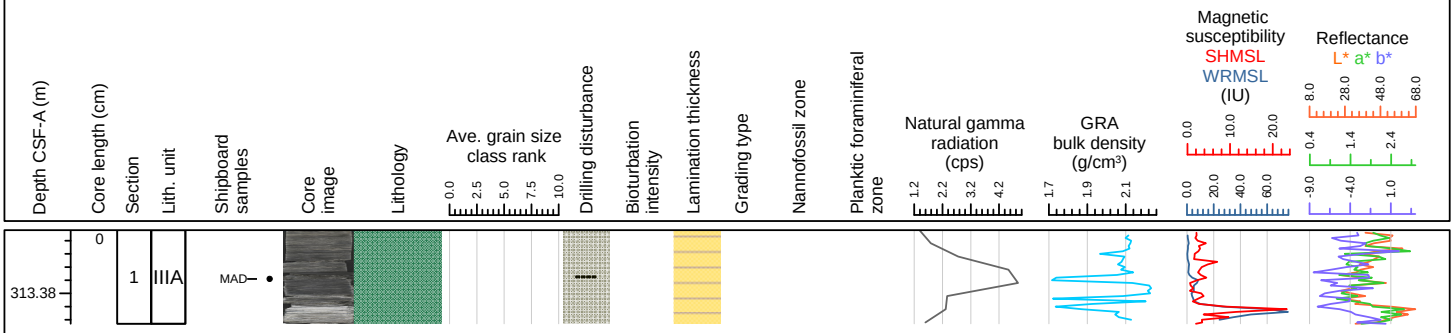
Hole 402-U1617A Core 41X, Interval 308.4-308.75 m (CSF-A)

Oxide-rich mud overlying gypsum



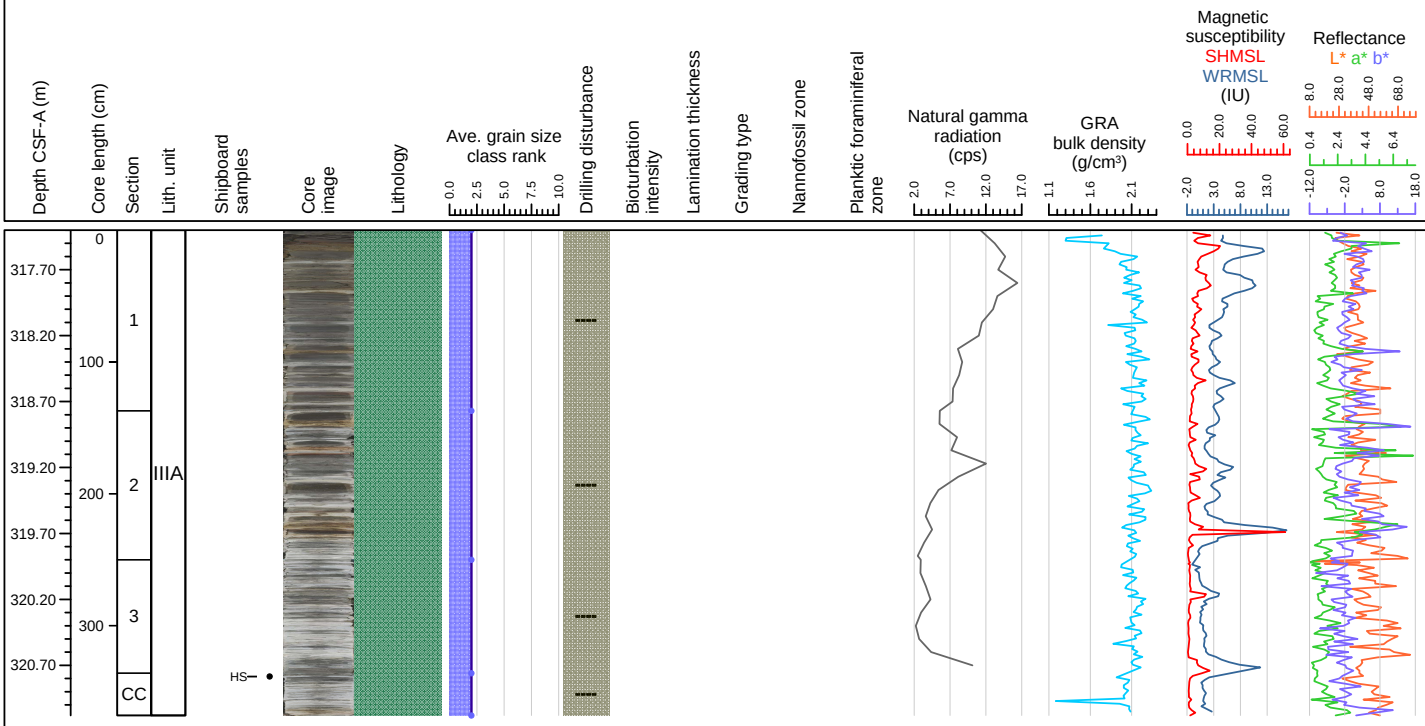
Hole 402-U1617A Core 42X, Interval 312.9-313.61 m (CSF-A)

Gypsum



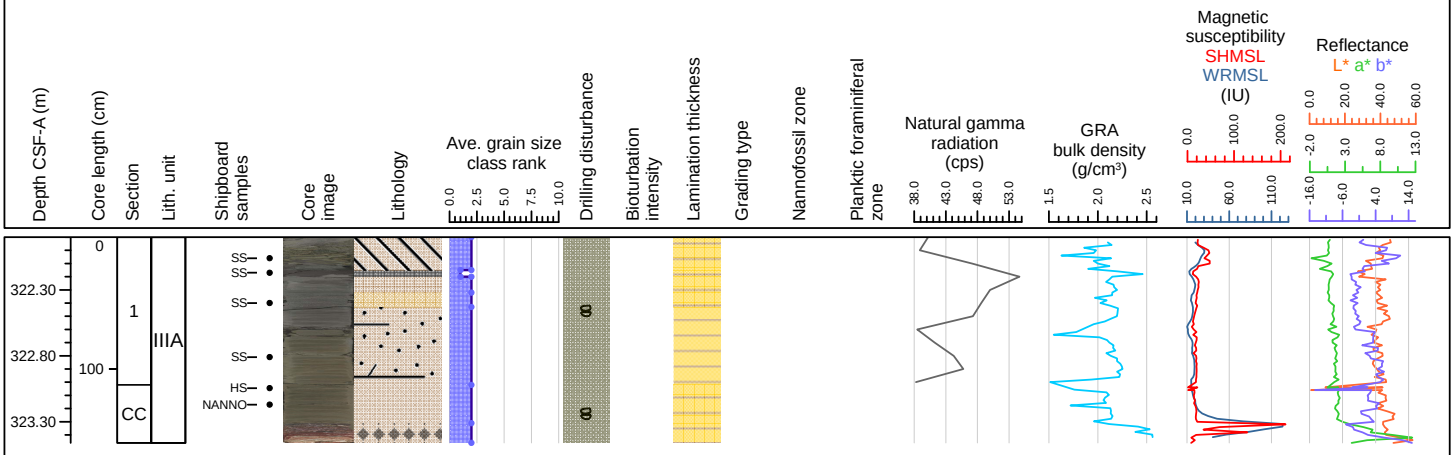
Hole 402-U1617A Core 43X, Interval 317.4-321.08 m (CSF-A)

Gypsum



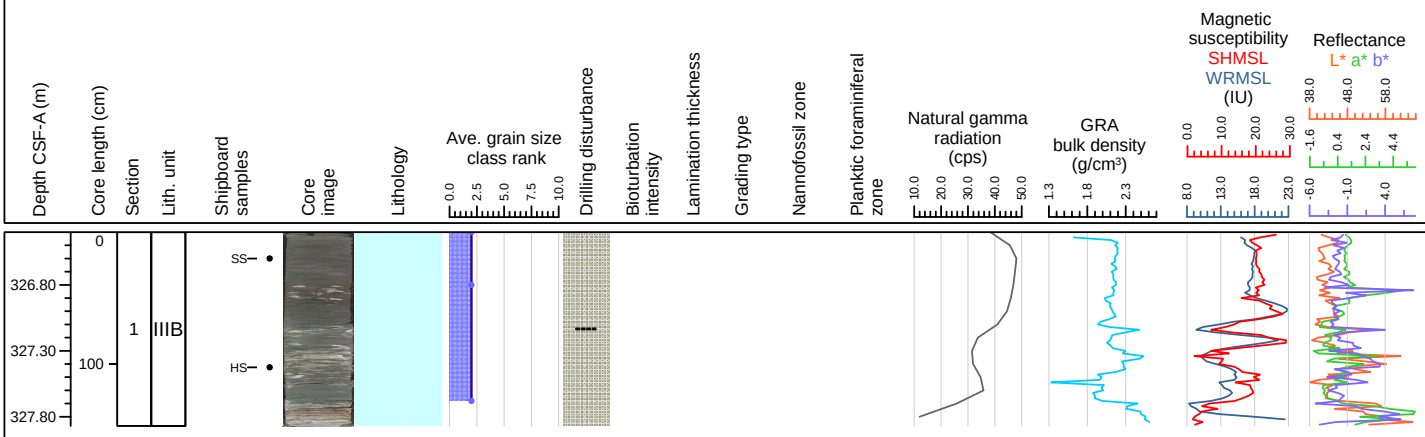
Hole 402-U1617A Core 44X, Interval 321.9-323.46 m (CSF-A)

Mud, oxid-rich at the bottom of the core catcher, intercalated with black shale and fine sand at the top of the core.



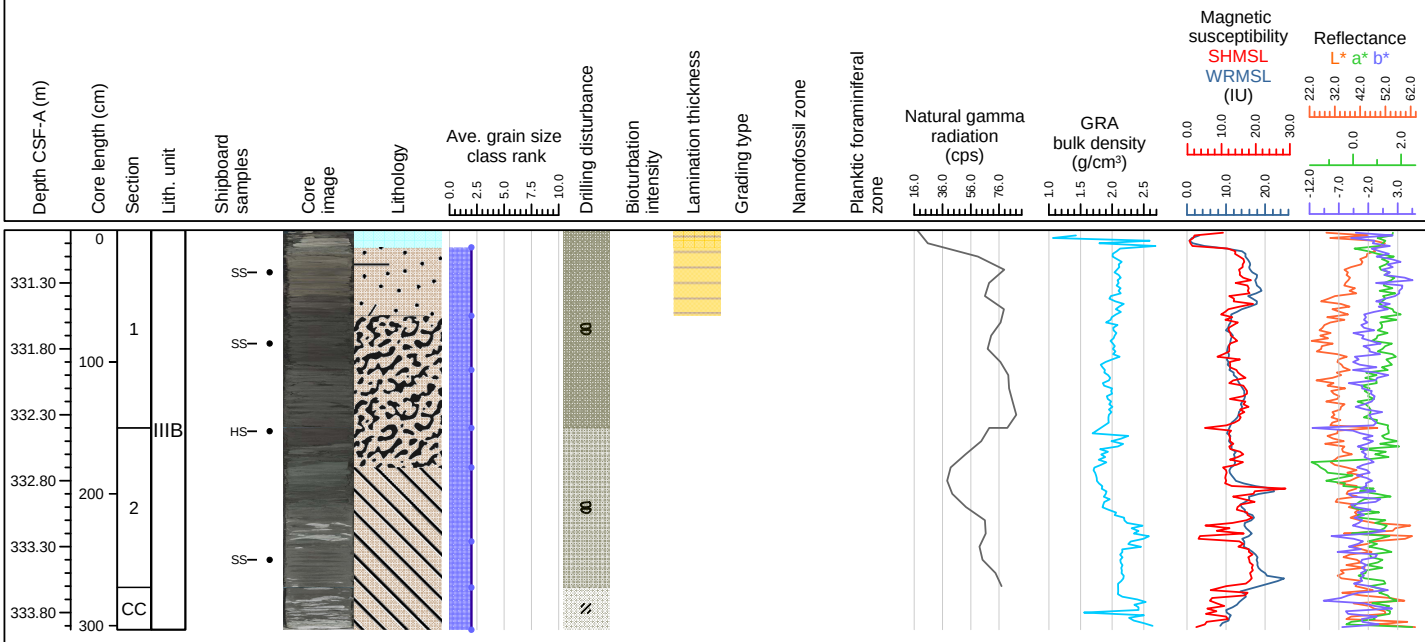
Hole 402-U1617A Core 45X, Interval 326.4-327.87 m (CSF-A)

Glauconite-rich mud with anhydrite clasts throughout followed by the deposition of a continuous layer of anhydrite mixed with some mud. Horizontal cracks are observed.



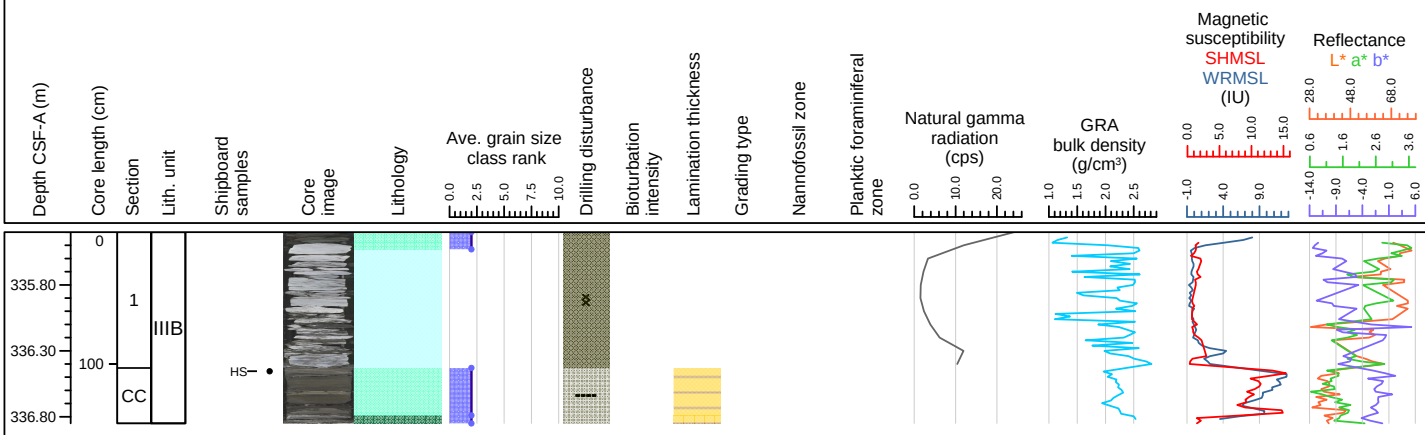
Hole 402-U1617A Core 46X, Interval 330.9-333.93 m (CSF-A)

Anhydrite is deposited at the top of the core quickly followed by organic-rich mud and glauconite-rich mud. Biscuiting is present throughout.



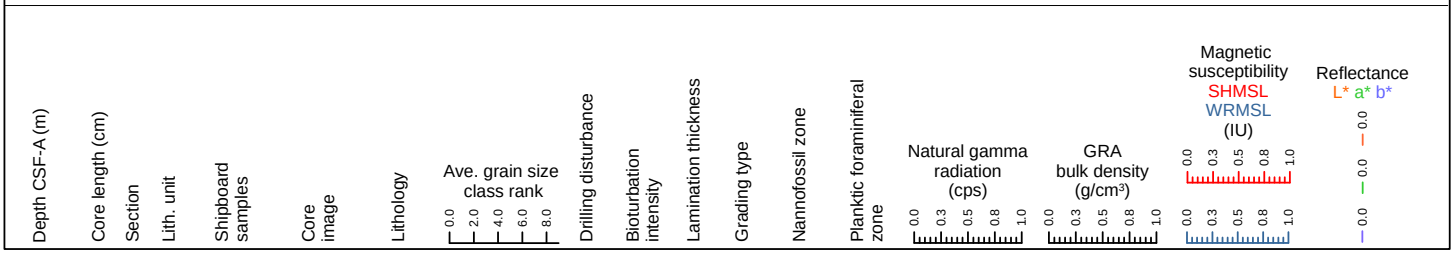
Hole 402-U1617A Core 47X, Interval 335.4-336.85 m (CSF-A)

Anhydrite deposits with glauconite rich mud in-between.



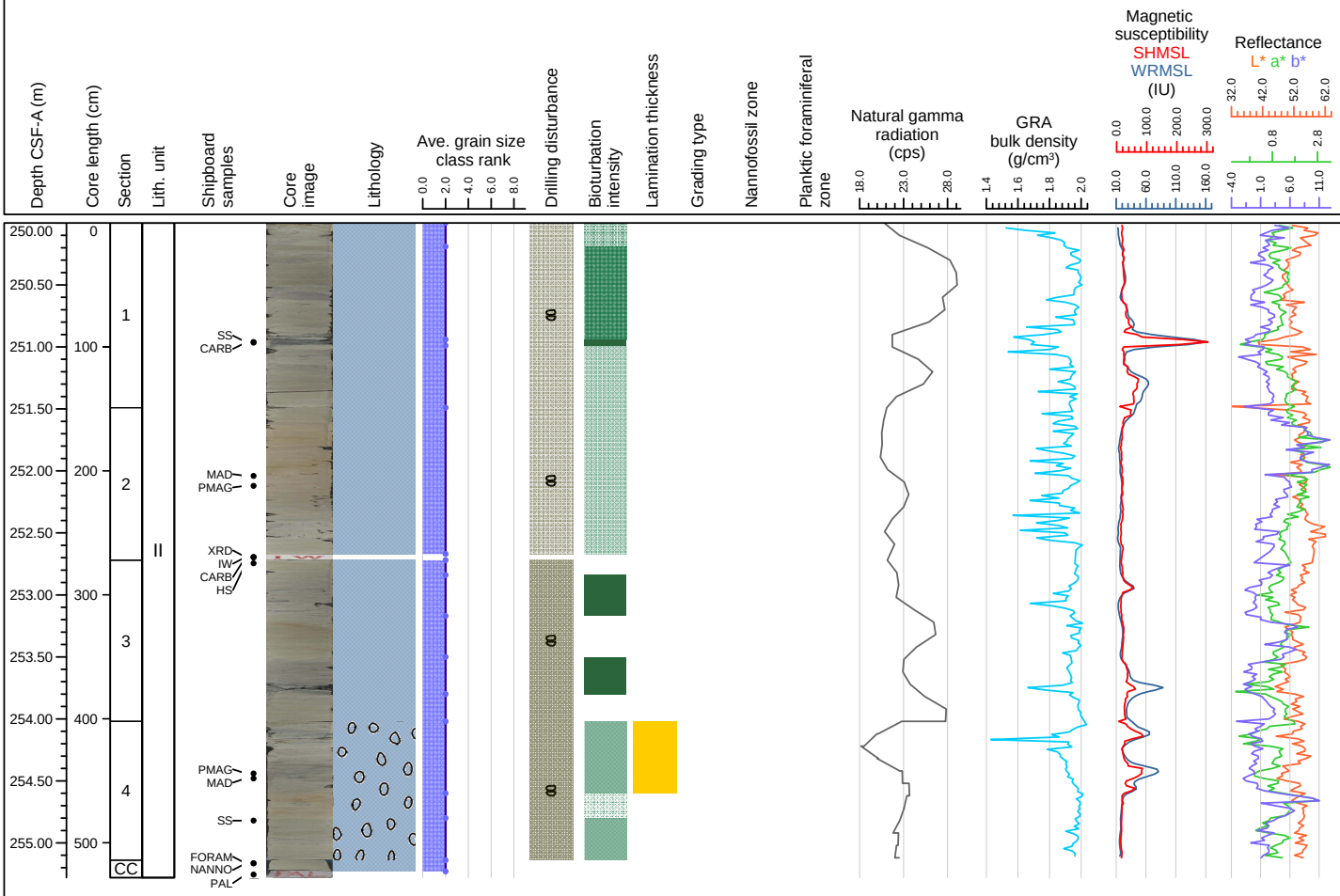
Hole 402-U1617B Core 11, Interval 0.0-0.0 m (CSF-A)

DRILLED INTERVAL 0 m-250 m



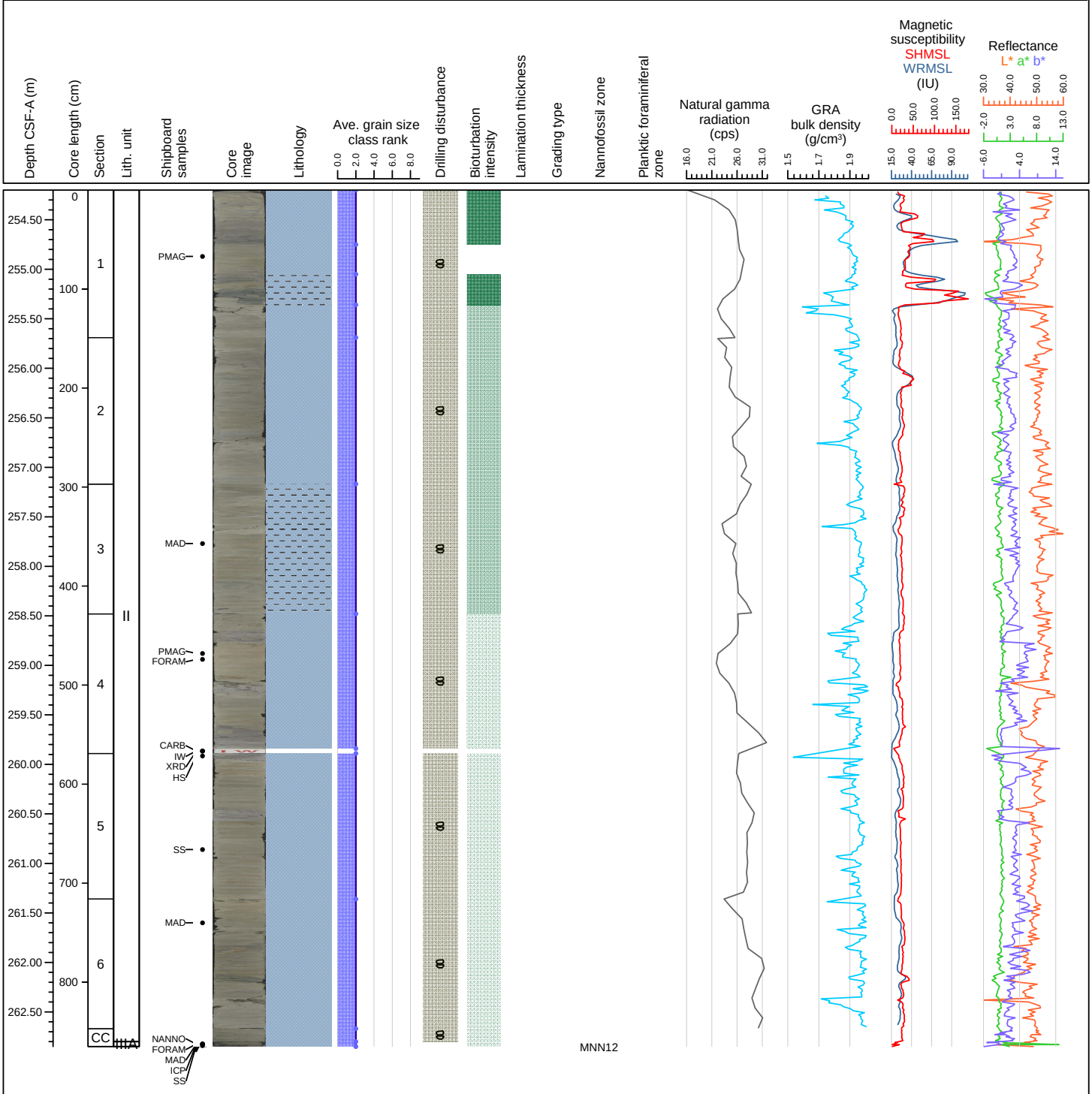
Hole 402-U1617B Core 2R, Interval 250.0-255.28 m (CSF-A)

Biscuited nannofossil ooze, sometimes with foraminifera



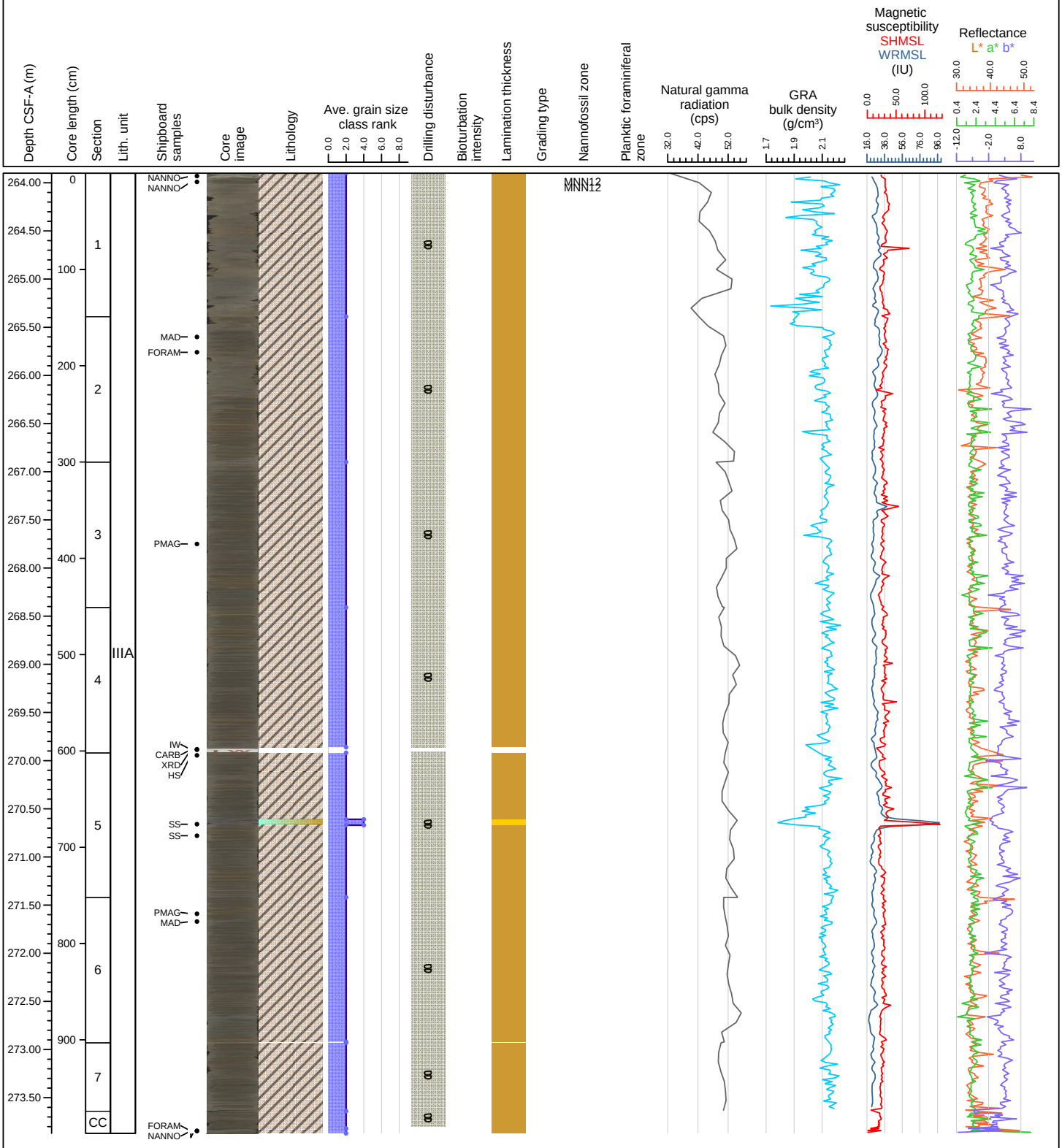
Hole 402-U1617B Core 3R, Interval 254.2-262.85 m (CSF-A)

Biscuited nannofossil ooze, sometimes glaucionite-rich



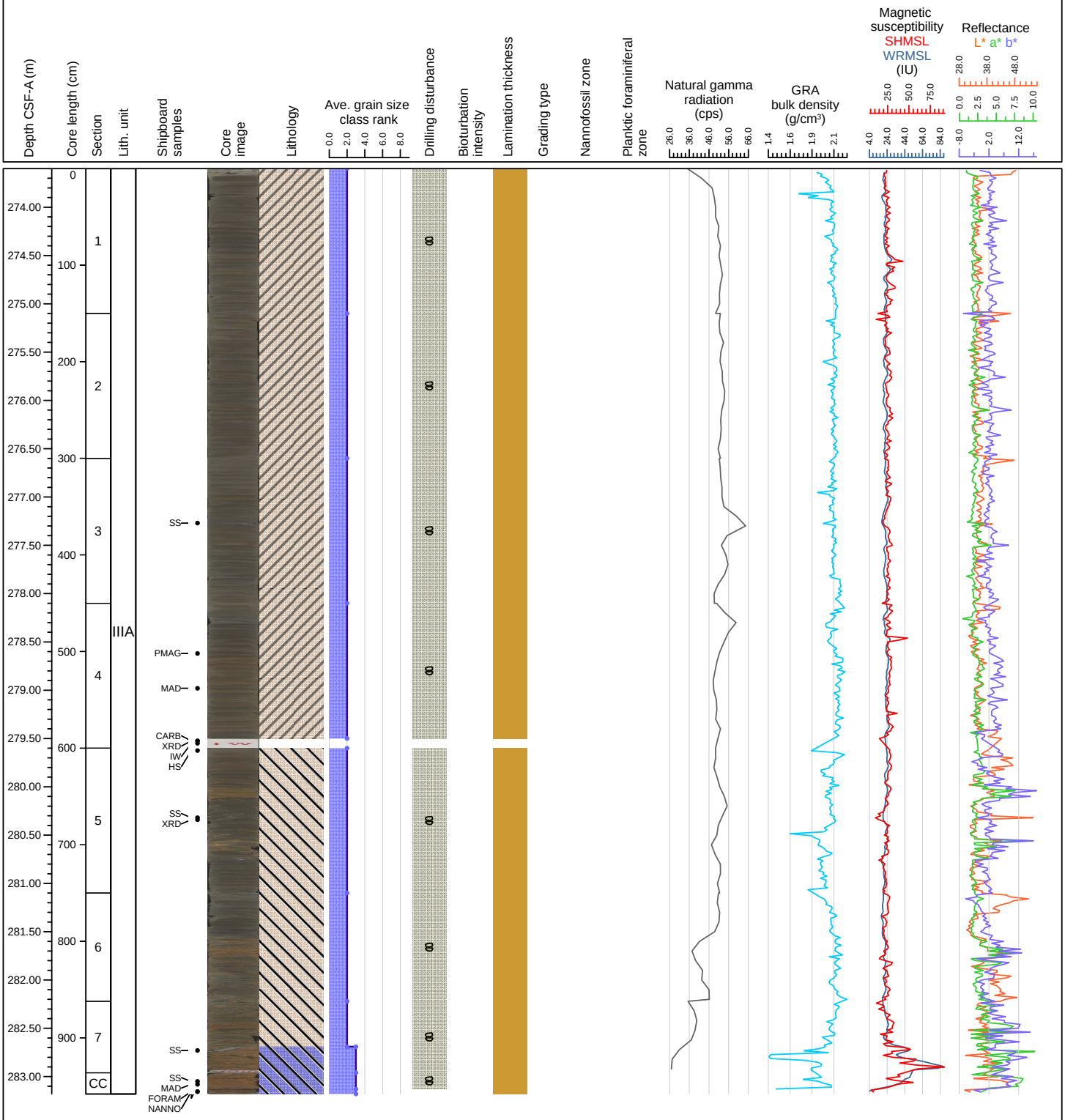
Hole 402-U1617B Core 4R, Interval 263.9-273.87 m (CSF-A)

Core represent a transition from a deep marine environment of the precedent core to a more shallow-water one, where the sedimentation is more laminar and alternates brownish with yellowish layers



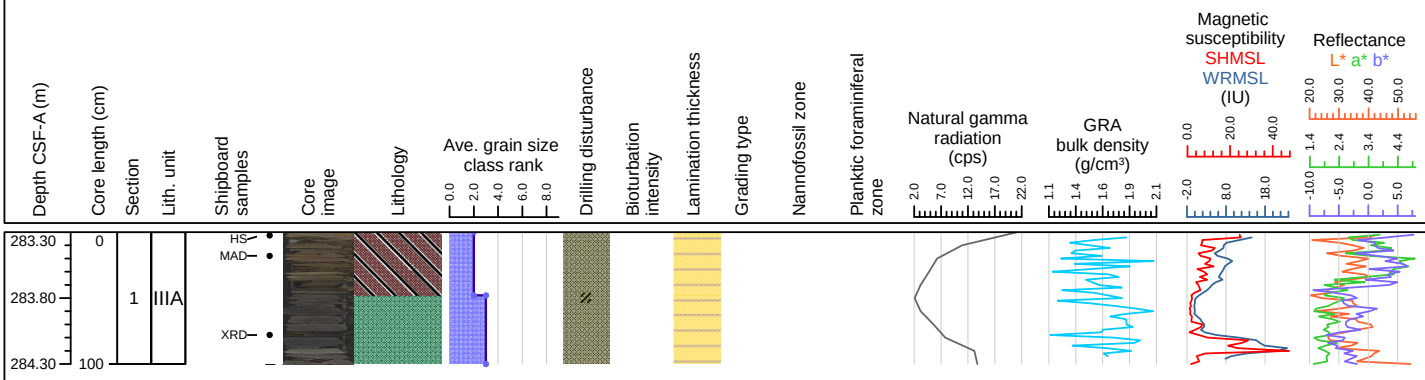
Hole 402-U1617B Core 5R, Interval 273.6-283.18 m (CSF-A)

First sections are same depositional environment of previous core with at least 2 millimetric detrital sand layers. First occurrence of gypsum in section 5 (mostly detrital or fibrous)



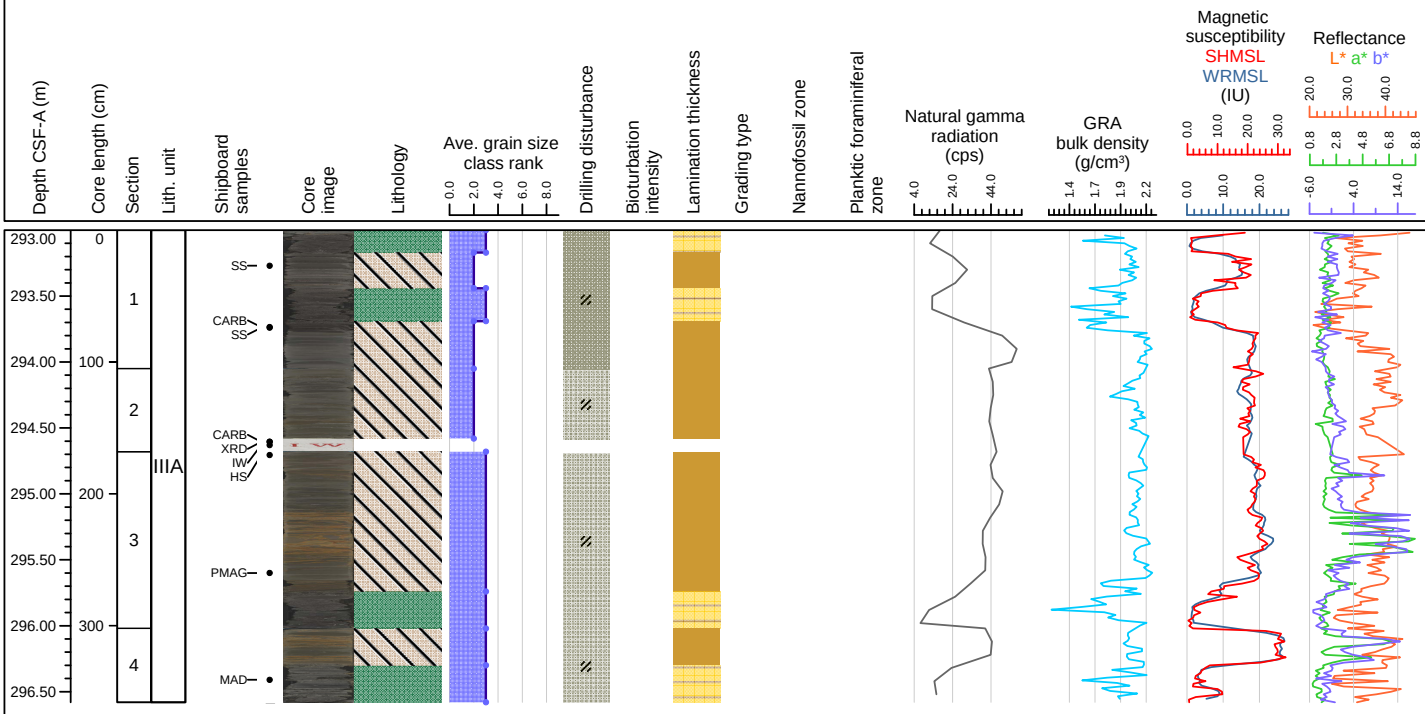
Hole 402-U1617B Core 6R, Interval 283.3-284.3 m (CSF-A)

Mudstone with mm gypsum crystals deposited along the laminations in the upper part of the section, followed by laminar gypsum with rosette crystals downcore



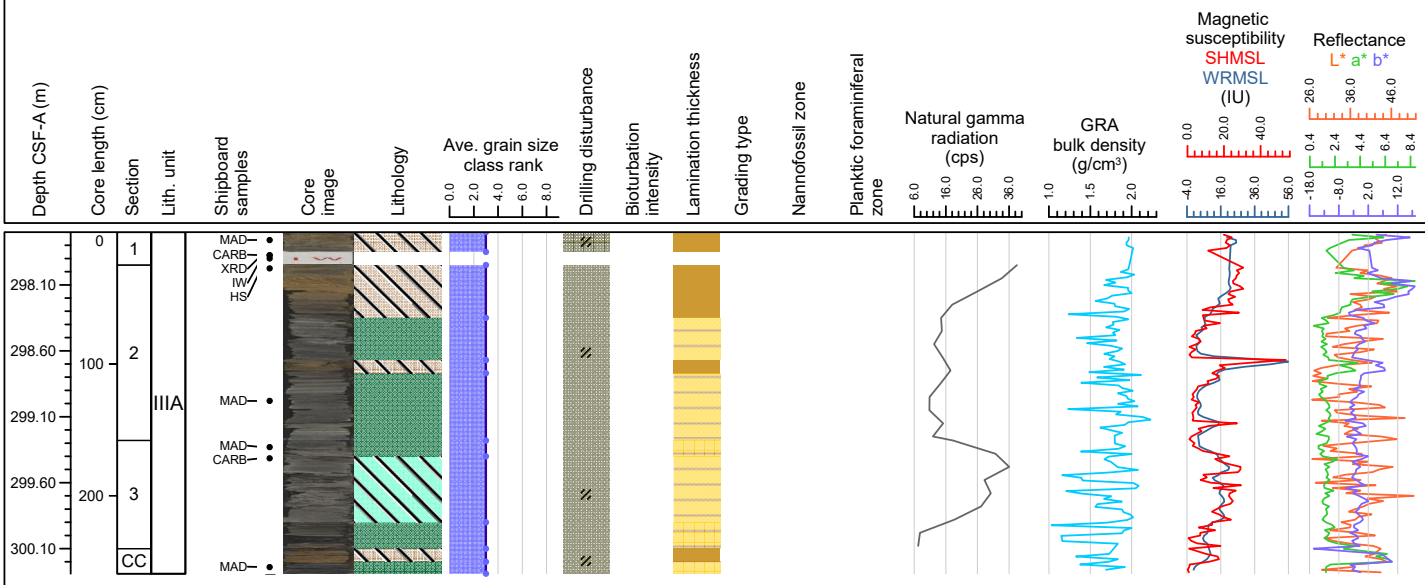
Hole 402-U1617B Core 7R, Interval 293.0-296.58 m (CSF-A)

Cyclic gypsum deposition alternated by finely laminated mudstone with abundant detrital gypsum



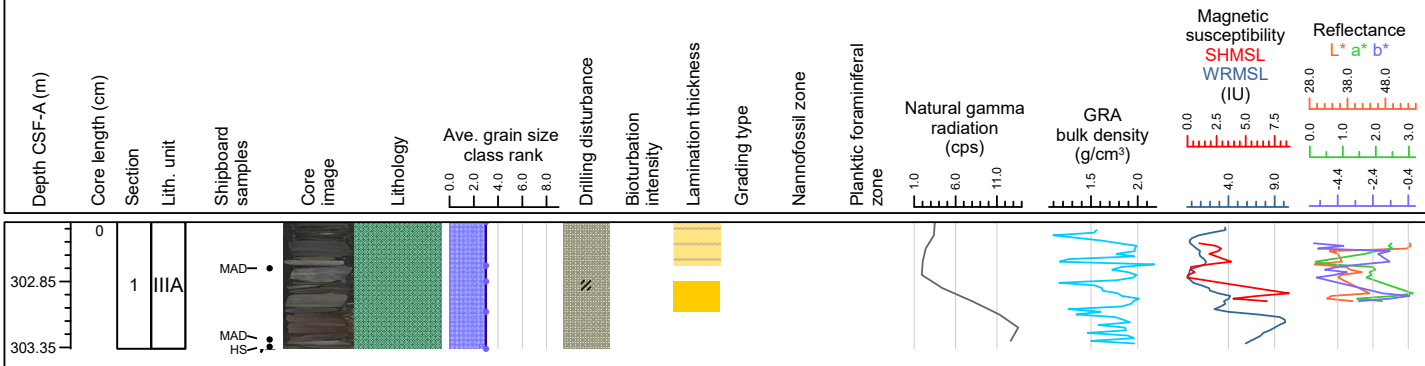
Hole 402-U1617B Core 8R, Interval 297.7-300.29 m (CSF-A)

Cyclic gypsum deposition alternated by finely laminated mudstone with abundant detrital gypsum



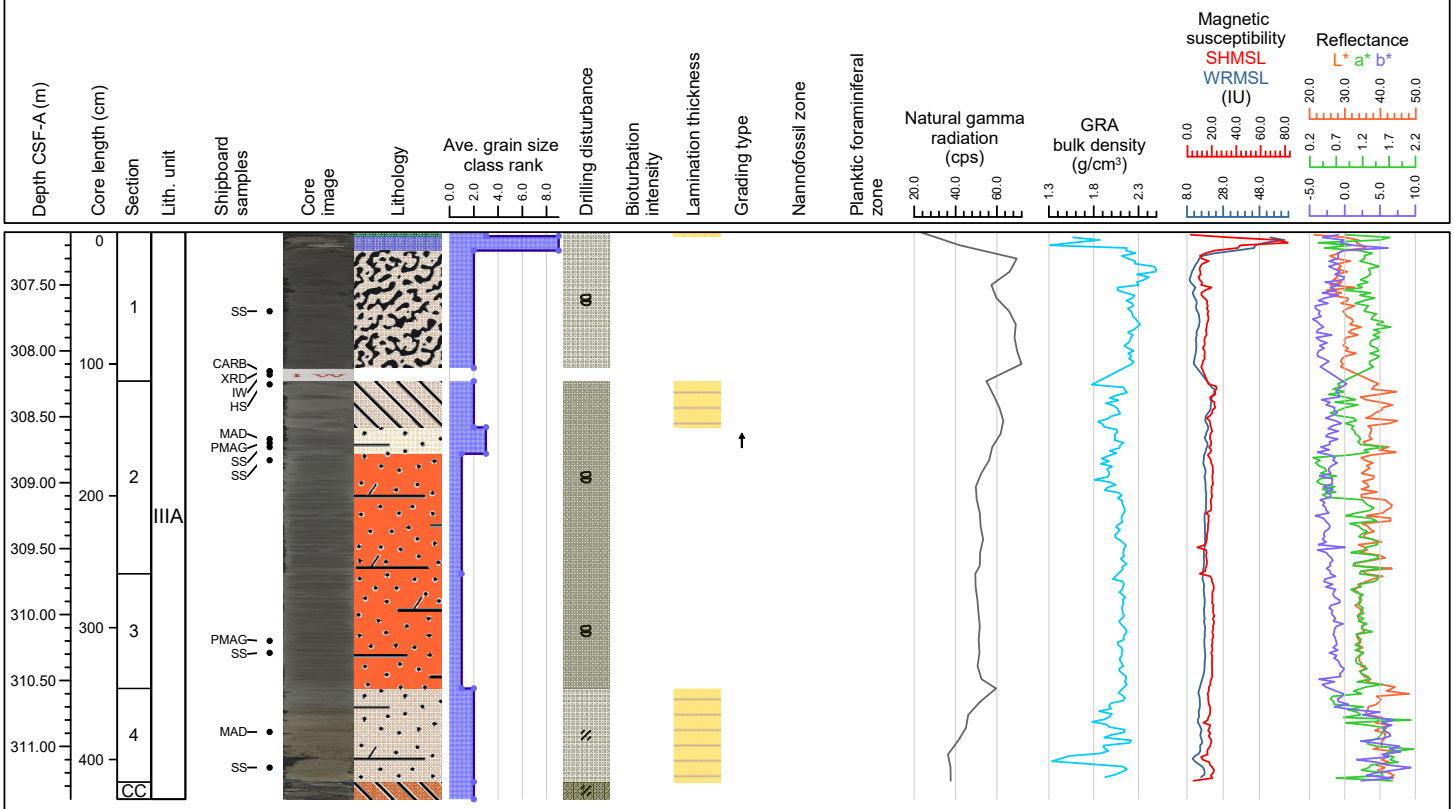
Hole 402-U1617B Core 9R, Interval 302.4-303.36 m (CSF-A)

Cracked gypsum , sometimes finely laminated



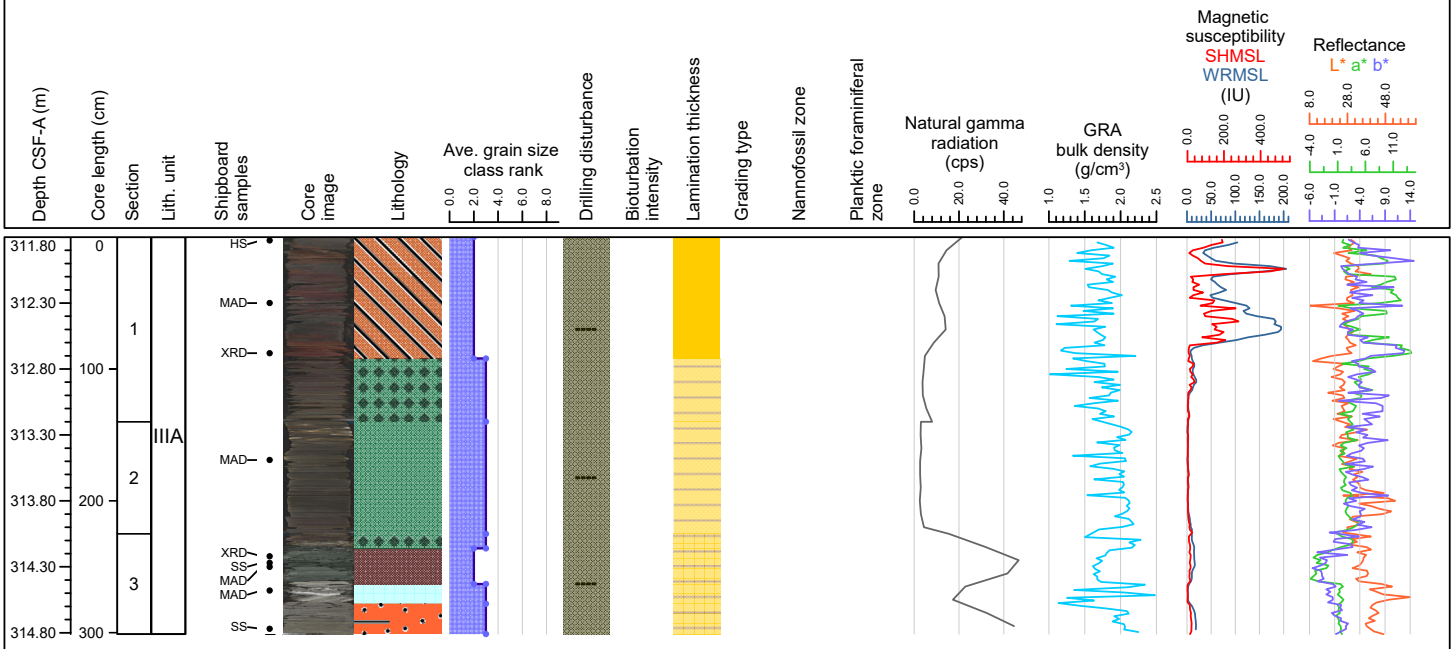
Hole 402-U1617B Core 10R, Interval 307.1-311.4 m (CSF-A)

Cyclic gypsum deposition alternated by muddy unconsolidated breccia, organic-rich mud, clay and gypsum-rich matrix supported polymictic conglomerate



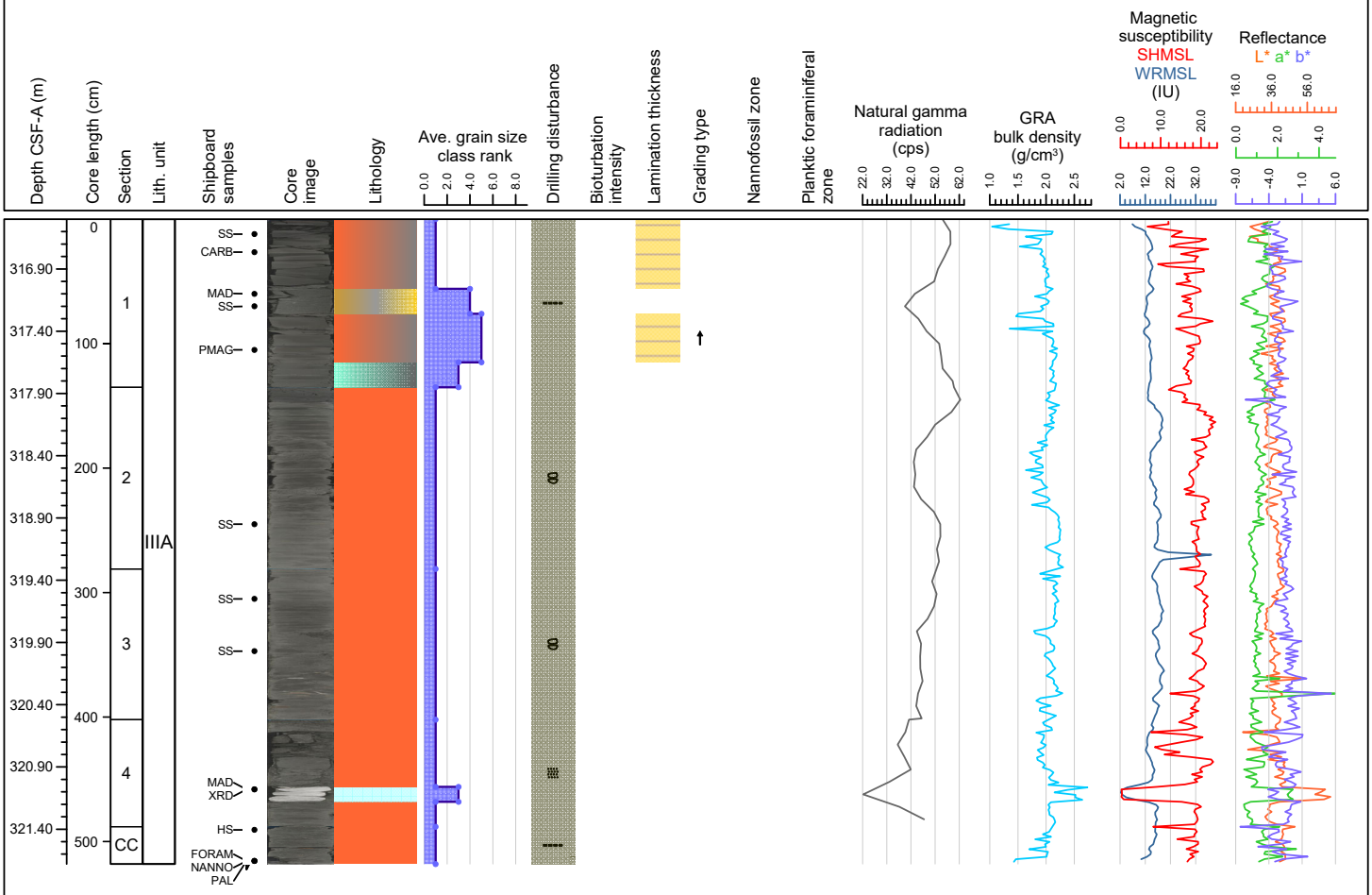
Hole 402-U1617B Core 11R, Interval 311.8-314.81 m (CSF-A)

Oxide-rich matrix supported, polymictic gypsum, oxide-rich gypsum and gypsum characterize the upper and central section of the core, whereas mudstone, anhydrite and dolomite form the bottom part.



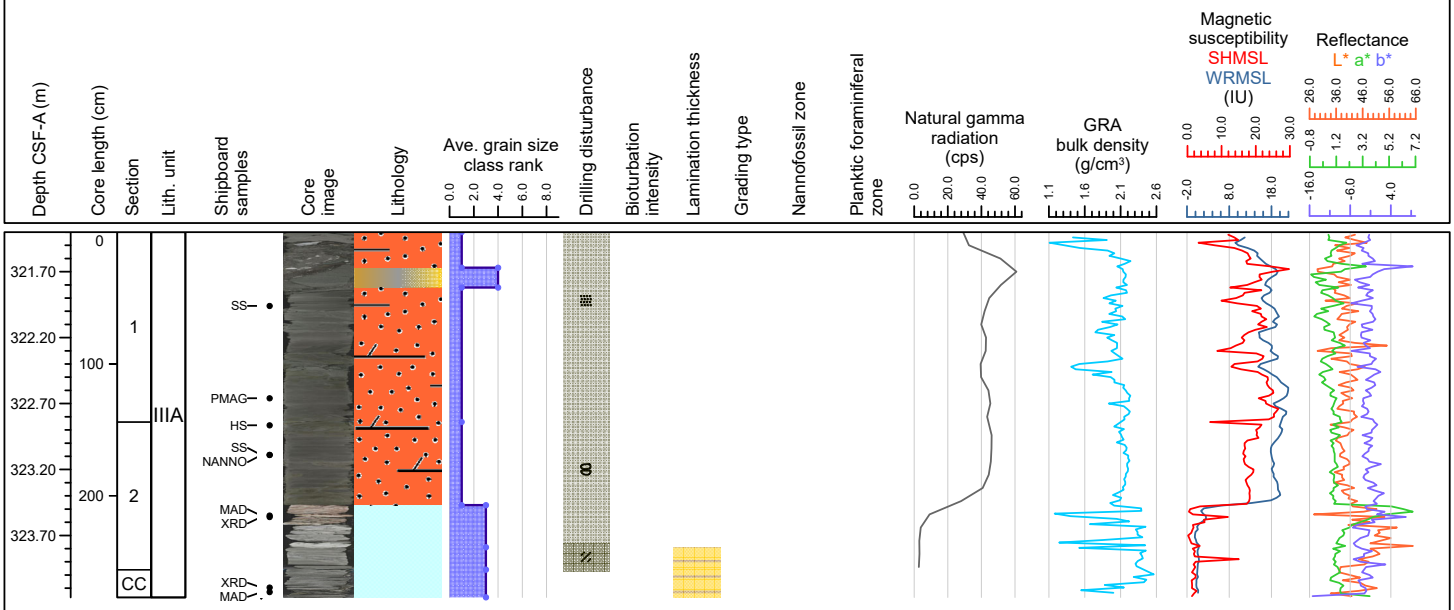
Hole 402-U1617B Core 12R, Interval 316.5-321.68 m (CSF-A)

Claystone and sandstone alternate at the beginning of this core, transitioning to clay, with presence of anhydrite at the bottom



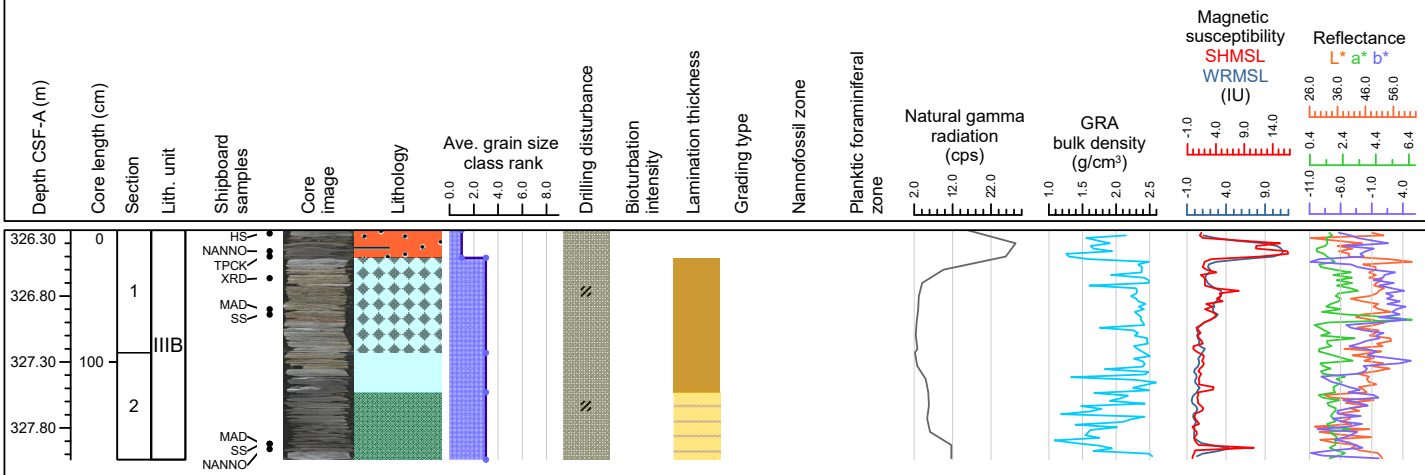
Hole 402-U1617B Core 13R, Interval 321.4-324.17 m (CSF-A)

Clay and sand alternate at the beginning of this core, transitioning to anhydrite and gypsum at the bottom. Anhydrite possibly contains dolomite. Several deformation structures are present



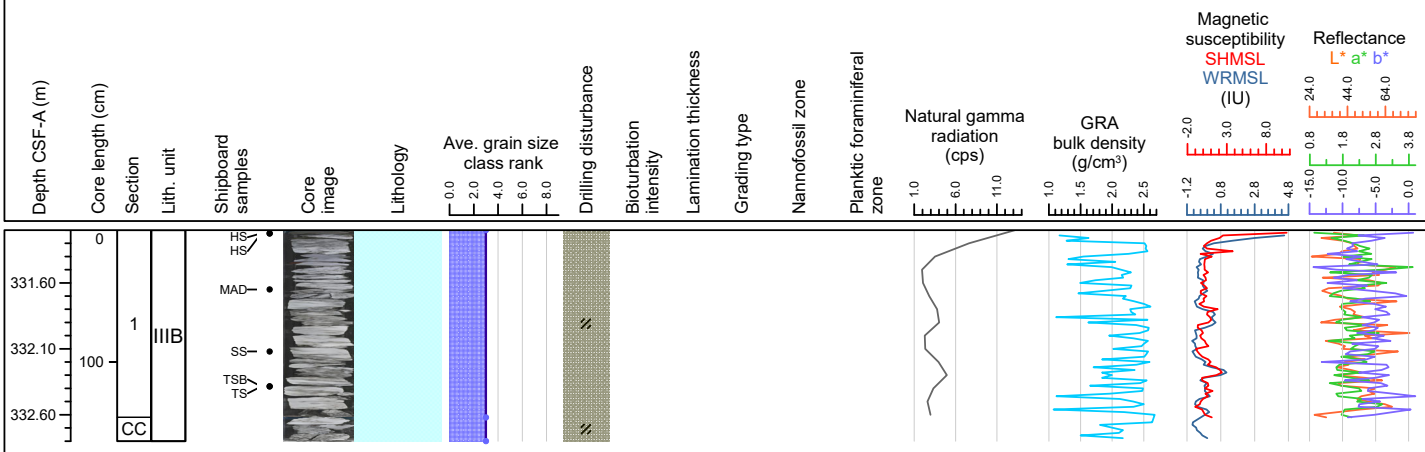
Hole 402-U1617B Core 14R, Interval 326.3-328.04 m (CSF-A)

Alternance of mostly anhydrite and gypsum, with lots of pressure-solution structures



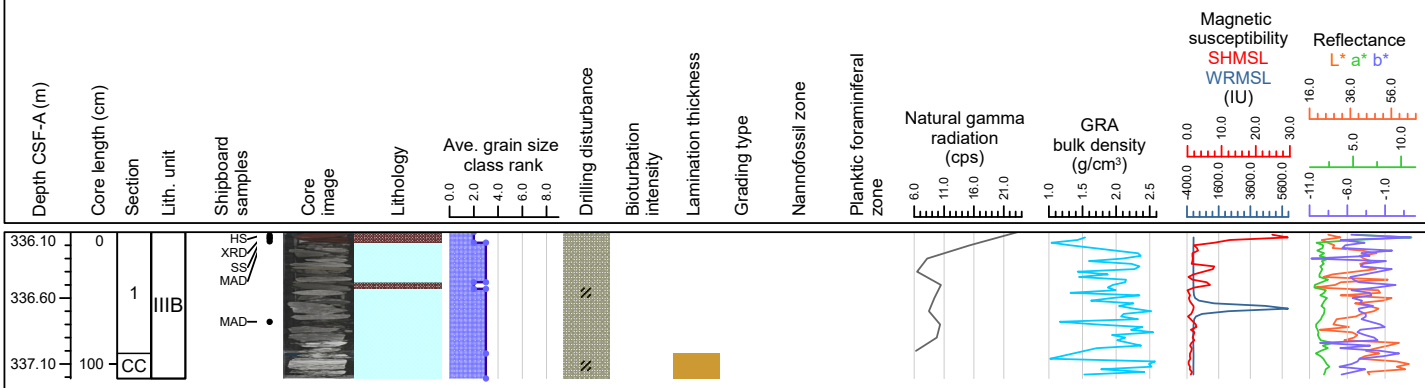
Hole 402-U1617B Core 15R, Interval 331.2-332.8 m (CSF-A)

Core composed of mostly chicken-wire anhydrite and gypsum



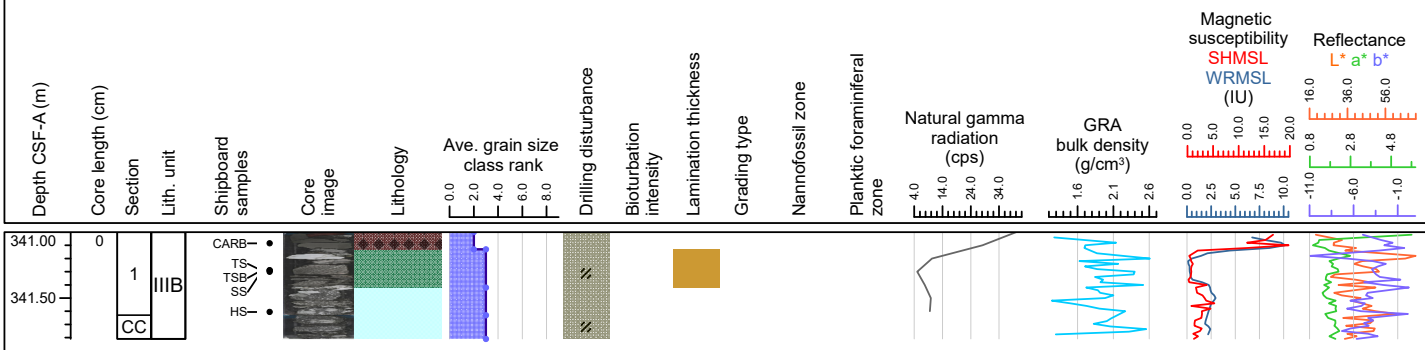
Hole 402-U1617B Core 16R, Interval 336.1-337.21 m (CSF-A)

Core composed of mostly chicken-wire anhydrite and gypsum with mudstone clasts



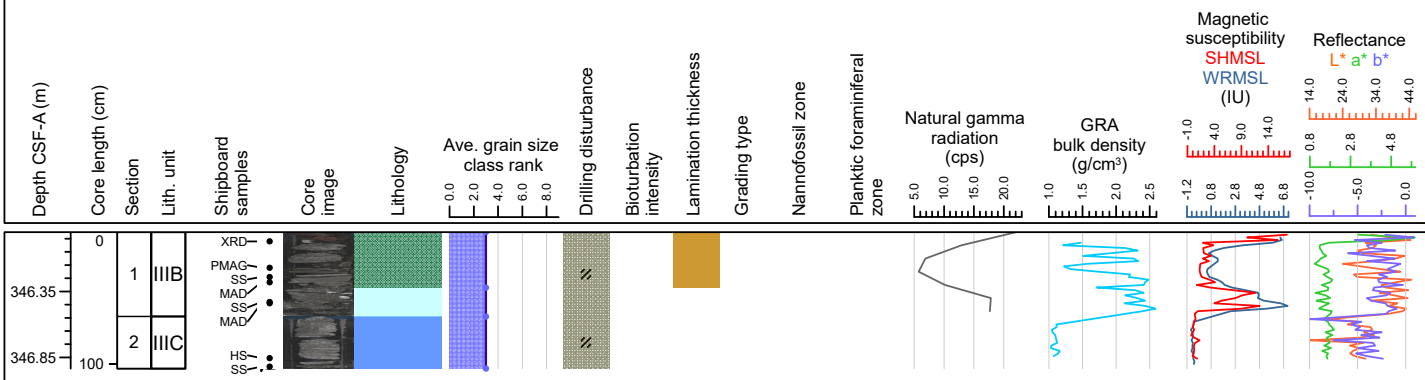
Hole 402-U1617B Core 17R, Interval 341.0-341.81 m (CSF-A)

Core composed of mostly chicken-wire anhydrite and finely laminated gypsum, with a brecciated aspect



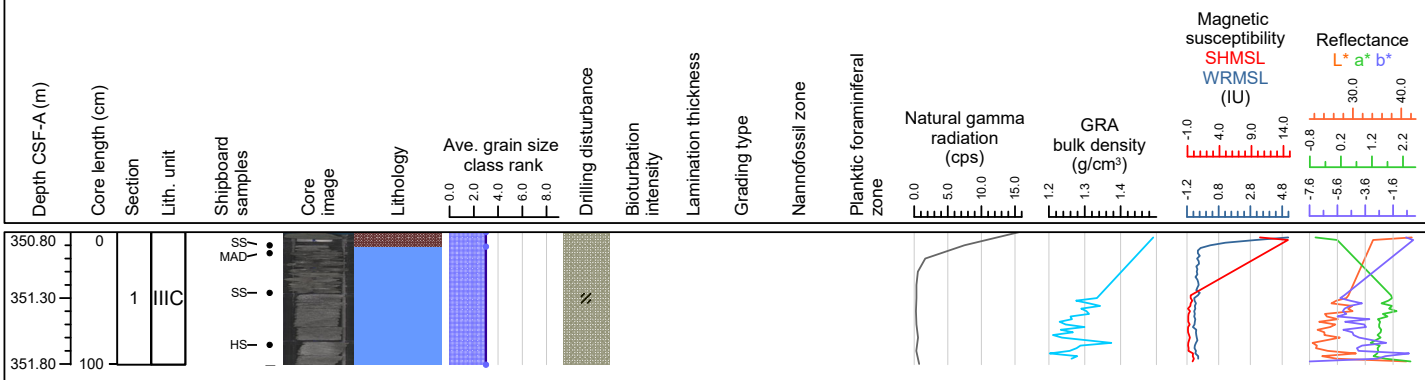
Hole 402-U1617B Core 18R, Interval 345.9-346.935 m (CSF-A)

The upper part of the core is characterized by gypsum with mud, the central part by anhydrite with mud and the bottom by halite.



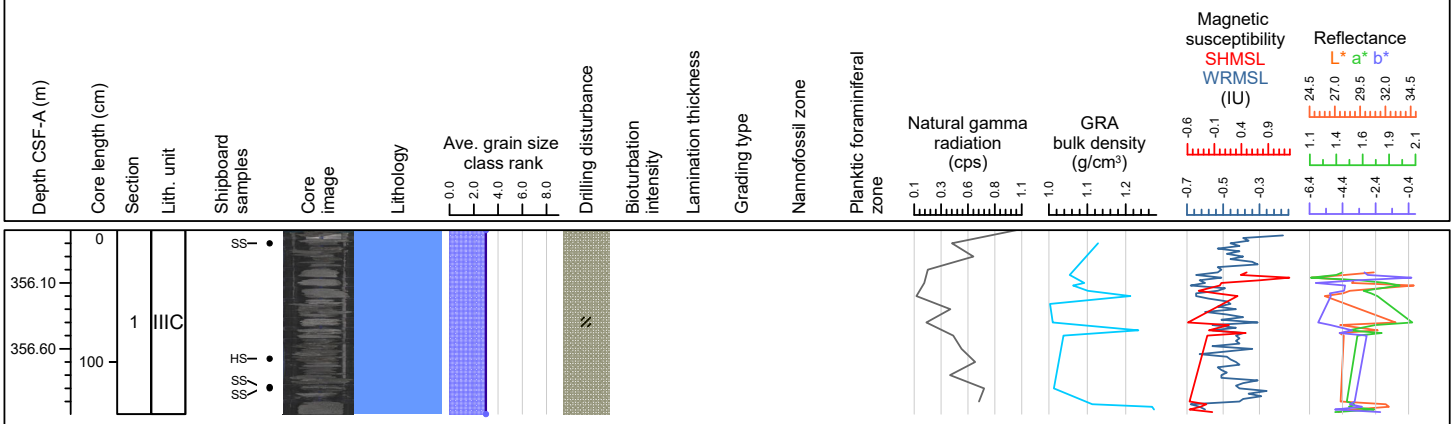
Hole 402-U1617B Core 19R, Interval 350.8-351.805 m (CSF-A)

The core is characterized by an upper layer of mudstone overlaying the predominant halite.



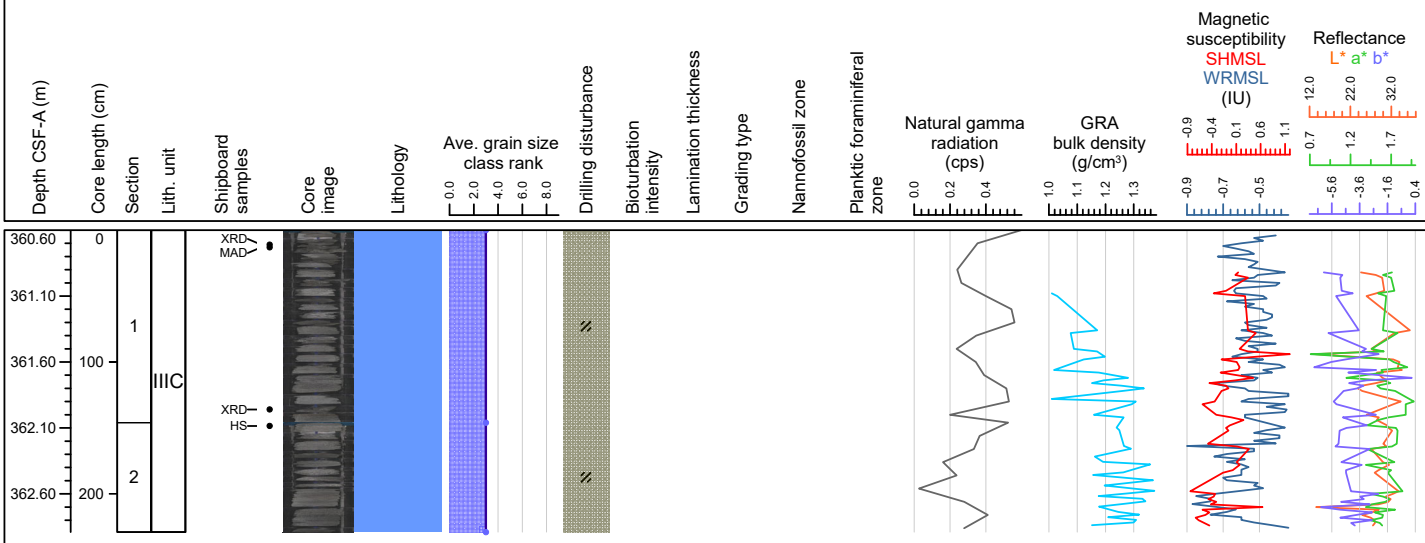
Hole 402-U1617B Core 20R, Interval 355.7-357.095 m (CSF-A)

The whole core is formed by halite affected by cracks



Hole 402-U1617B Core 21R, Interval 360.6-362.89 m (CSF-A)

The whole core is formed by halite affected by cracks



Hole 402-U1617B Core 22R, Interval 365.5-367.48 m (CSF-A)

The upper part of the core is formed by halite, progressively followed downhole by an interval of gypsum and black shale.