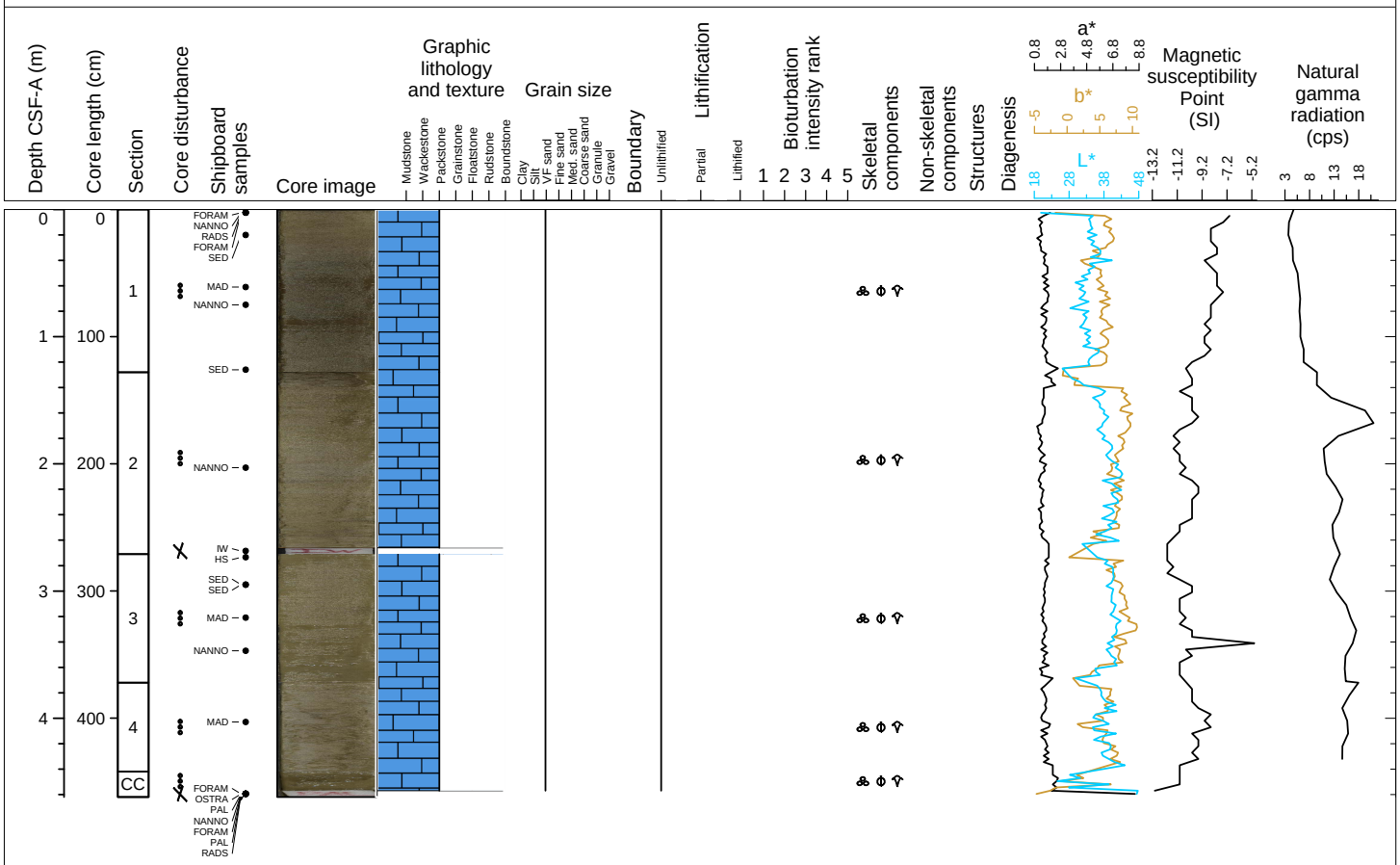
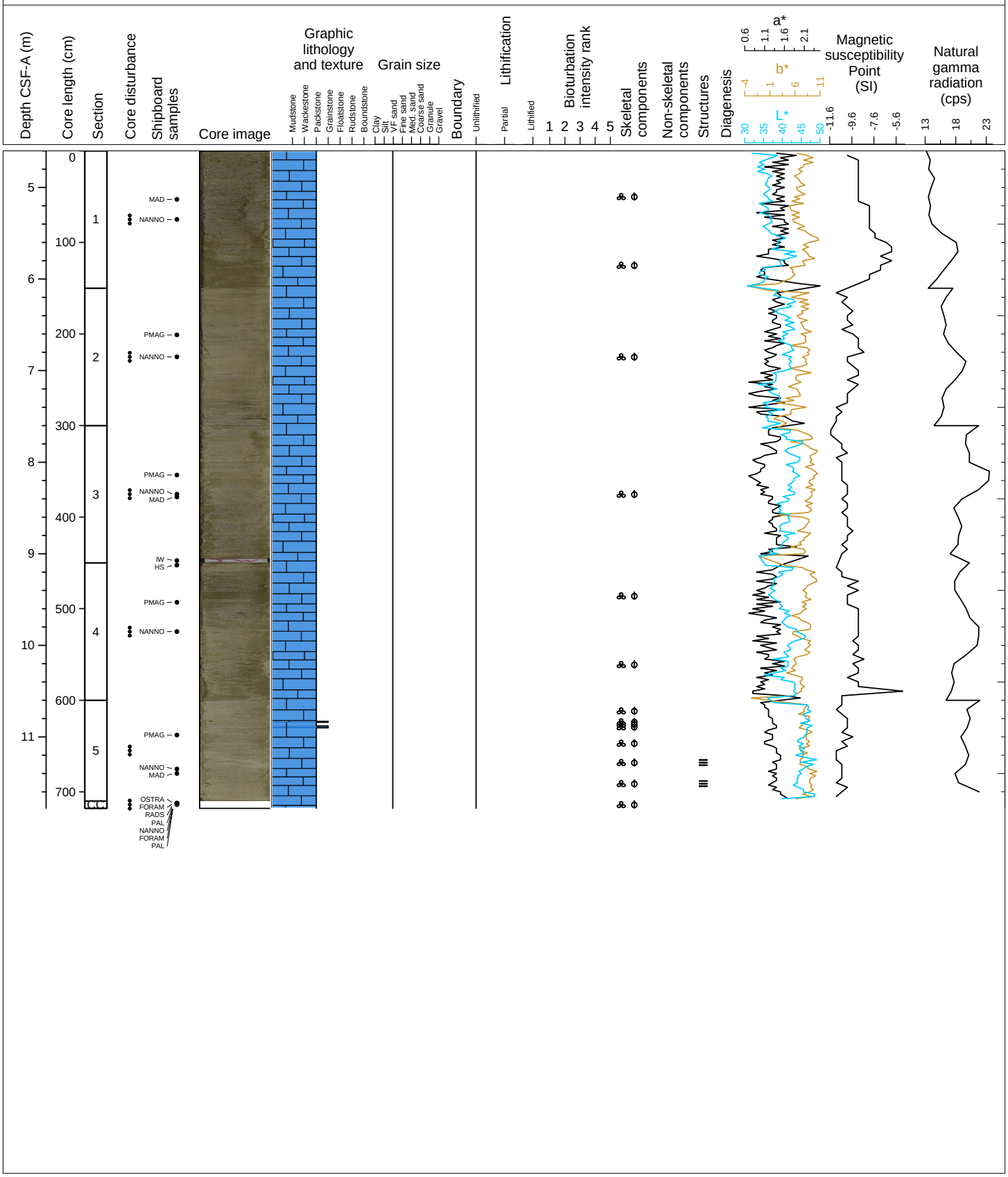
Hole 359-U1471A Core 1H, Interval 0.0-4.62 m (CSF-A)

Major lithology: Unlithified planktic foraminifera-rich PACKSTONE. Fine- to medium-grained, grayish brown. Planktic foraminifer are abundant. Benthic foraminifer, gastropods, and pteropods are common. Bioturbation is common to complete. Contacts are represented by gradational color change. Minor lithology: Remarks: None



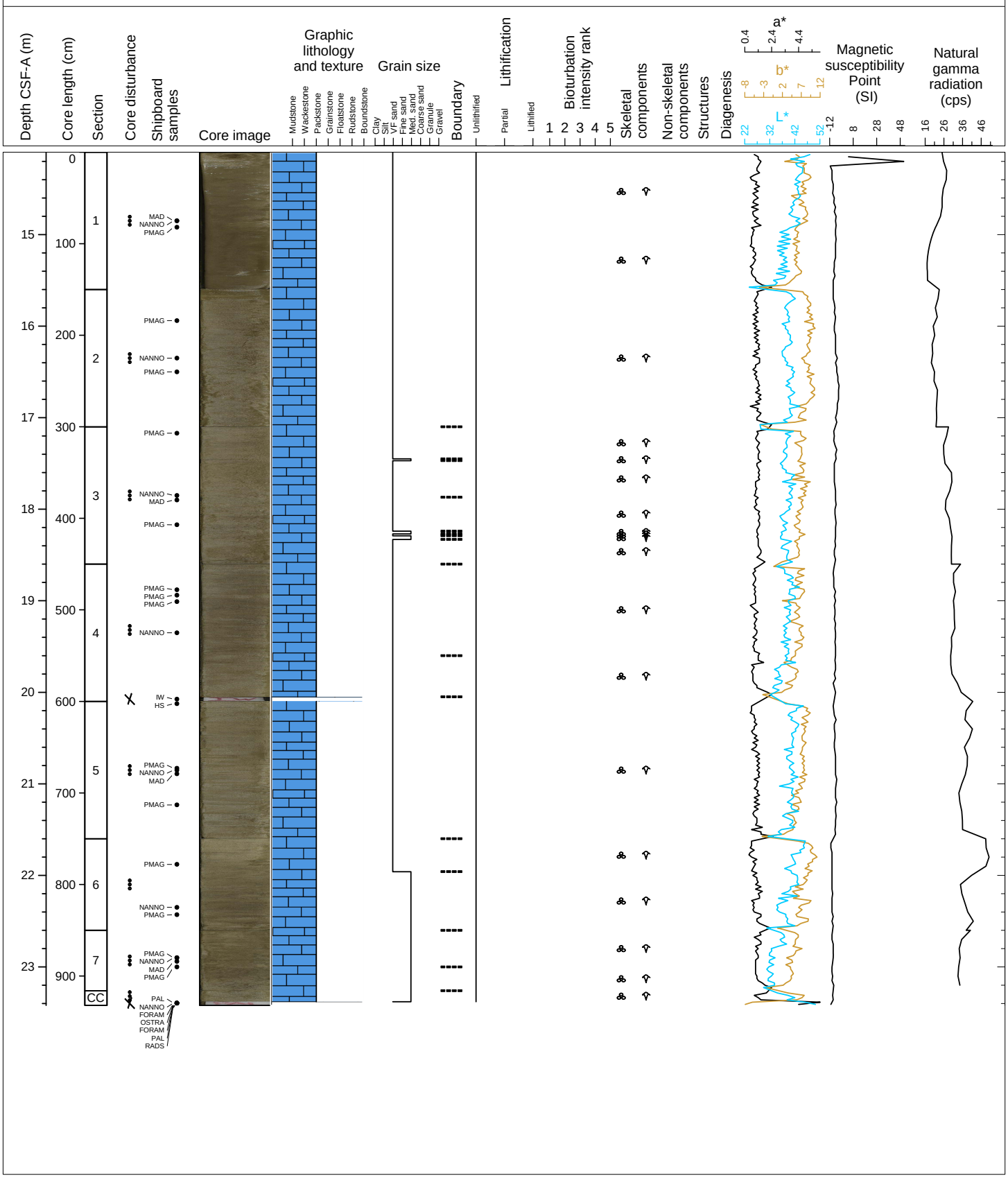
Hole 359-U1471A Core 2H, Interval 4.6-11.78 m (CSF-A)

Major lithology: Unlithified planktic foraminifera-rich PACKSTONE. Fine- to medium-grained, grayish brown. Planktic foraminifer are abundant. Benthic foraminifera, echinoid spines, mollusk fragments, otoliths and pteropods are common. Organic matter is present. Whole bivalves (articulated) and gastropods are rare. Black infill in some foraminifera. Bioturbation is common to complete. Contacts are represented by gradational color change. Minor lithology: GRAINSTONE in some burrows and as thin intervals (2H-5, 23-24 and 28-30 cm). Remarks: Poorly laminated from 2H-5, 64 cm to 109 cm.



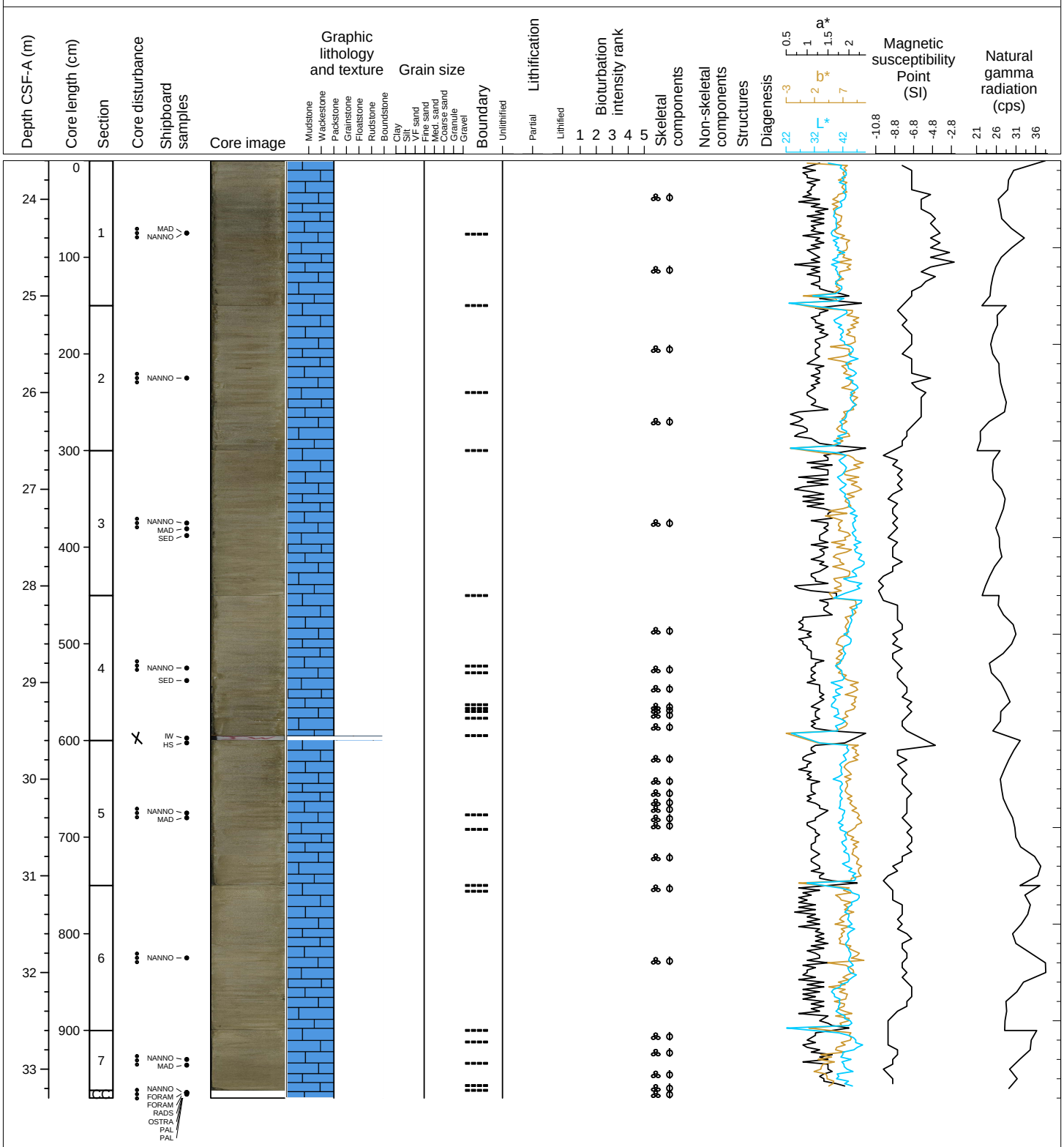
Hole 359-U1471A Core 3H, Interval 14.1-23.42 m (CSF-A)

Major lithology: Unlithified planktic foraminifera-rich mud-lean PACKSTONE. Fine- to medium-grained, grayish brown with interlayered medium-grained PACKSTONE (3H). Planktic foraminifer are abundant. Benthic foraminifera, mollusk fragments, bivalves, otoliths and pteropods are common. Echinoid spines, and organic matter is present. Black infill in some foraminifera. Well preserved lithoclasts. Bioturbation is common to complete. Contacts are represented by gradational color change. Minor lithology: Very thin interlayered GRAINSTONE (<1 cm) from 3H-5, 36 to 3H-6, 99 cm. GRAINSTONE also occurring as burrow infill. Remarks: None



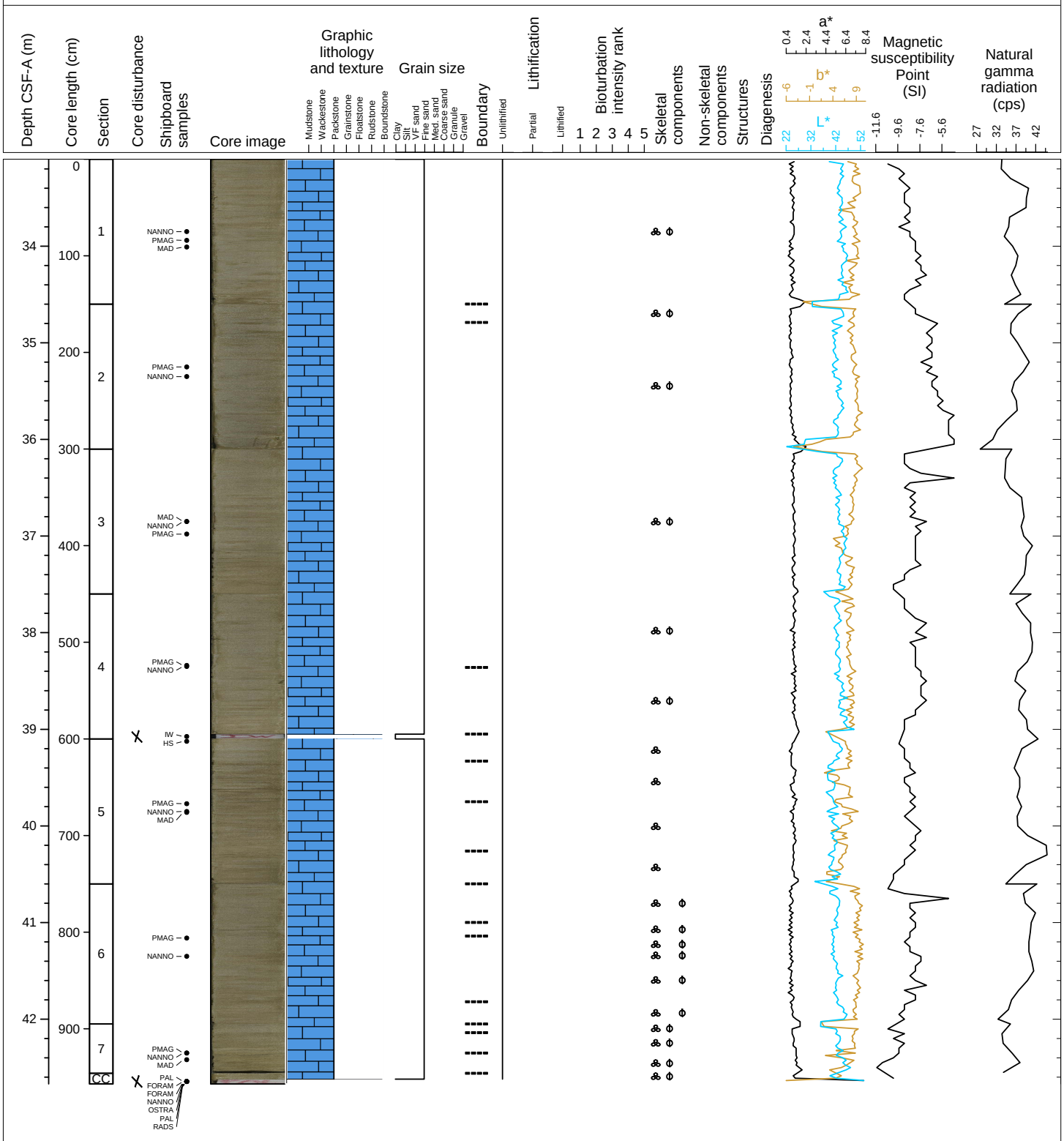
Hole 359-U1471A Core 4H, Interval 23.6-33.3 m (CSF-A)

Major lithology: Unlithified planktic foraminifera-rich mud-lean PACKSTONE. Fine-grained, light brownish gray and light gray to gray. Planktic foraminifera are abundant. Benthic foraminifera are common. Otoliths, echinoid fragments and bivalve and gastropod fragments, and organic fragments are present. Bioturbation is common to complete. Contacts are represented by gradational color change. Minor lithology: Unlithified fine-grained GRAINSTONE present in burrows. Remarks: Mottled due to bioturbation due to bioturbation.



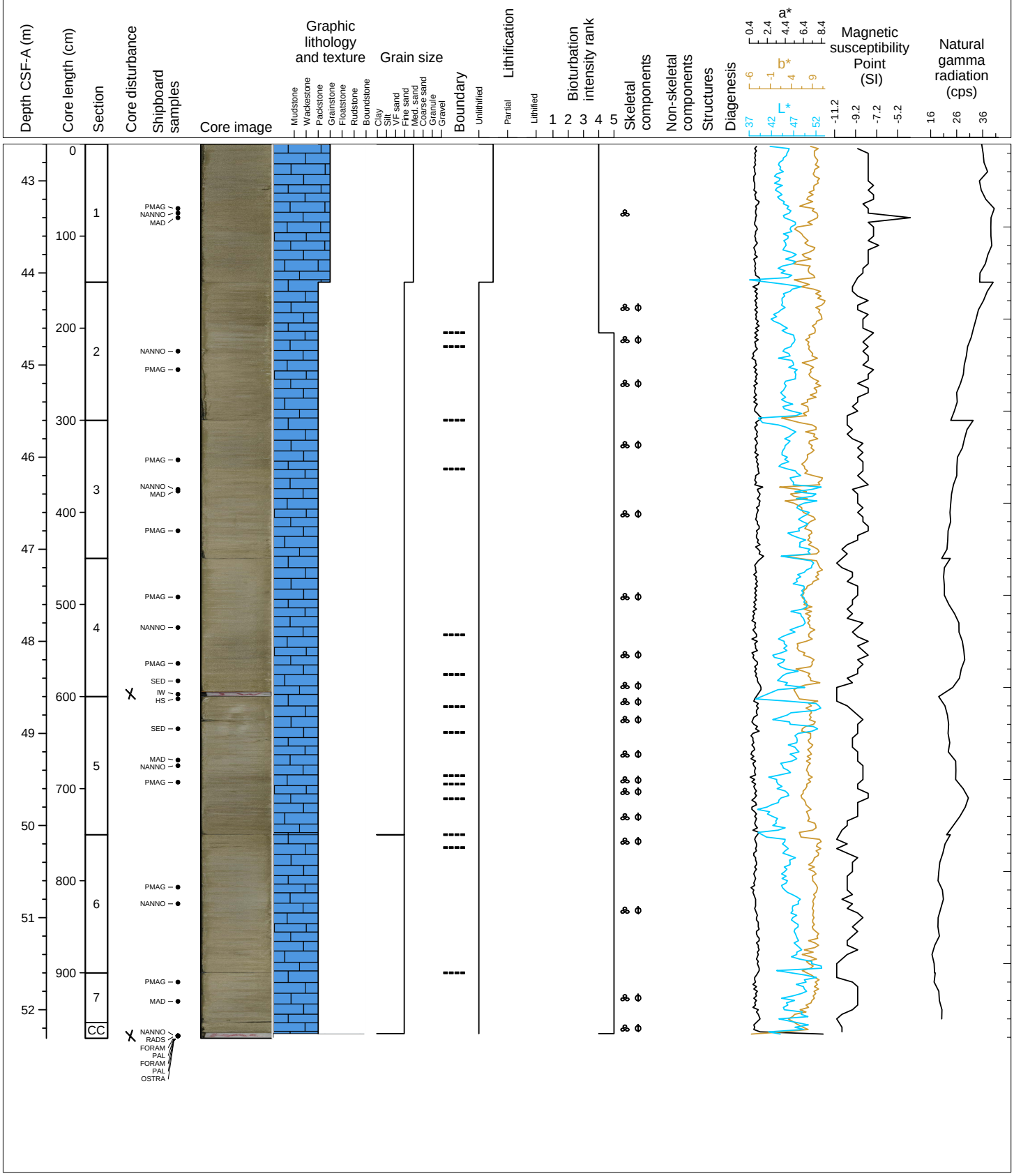
Hole 359-U1471A Core 5H, Interval 33.1-42.67 m (CSF-A)

Major lithology: Unlithified planktic foraminifera-rich PACKSTONE. Fine-grained, light brownish gray and light gray to gray. Planktic foraminifera are abundant. Benthic foraminifera, otoliths, organic material, gastropod and bivalve are rare to present. Contacts are represented by gradational color change. Bioturbation is complete. Minor lithology: Unlithified fine-grained GRAINSTONE present in burrows. Remarks: Mottled due to bioturbation due to bioturbation. Planktic foraminifer with back infill.



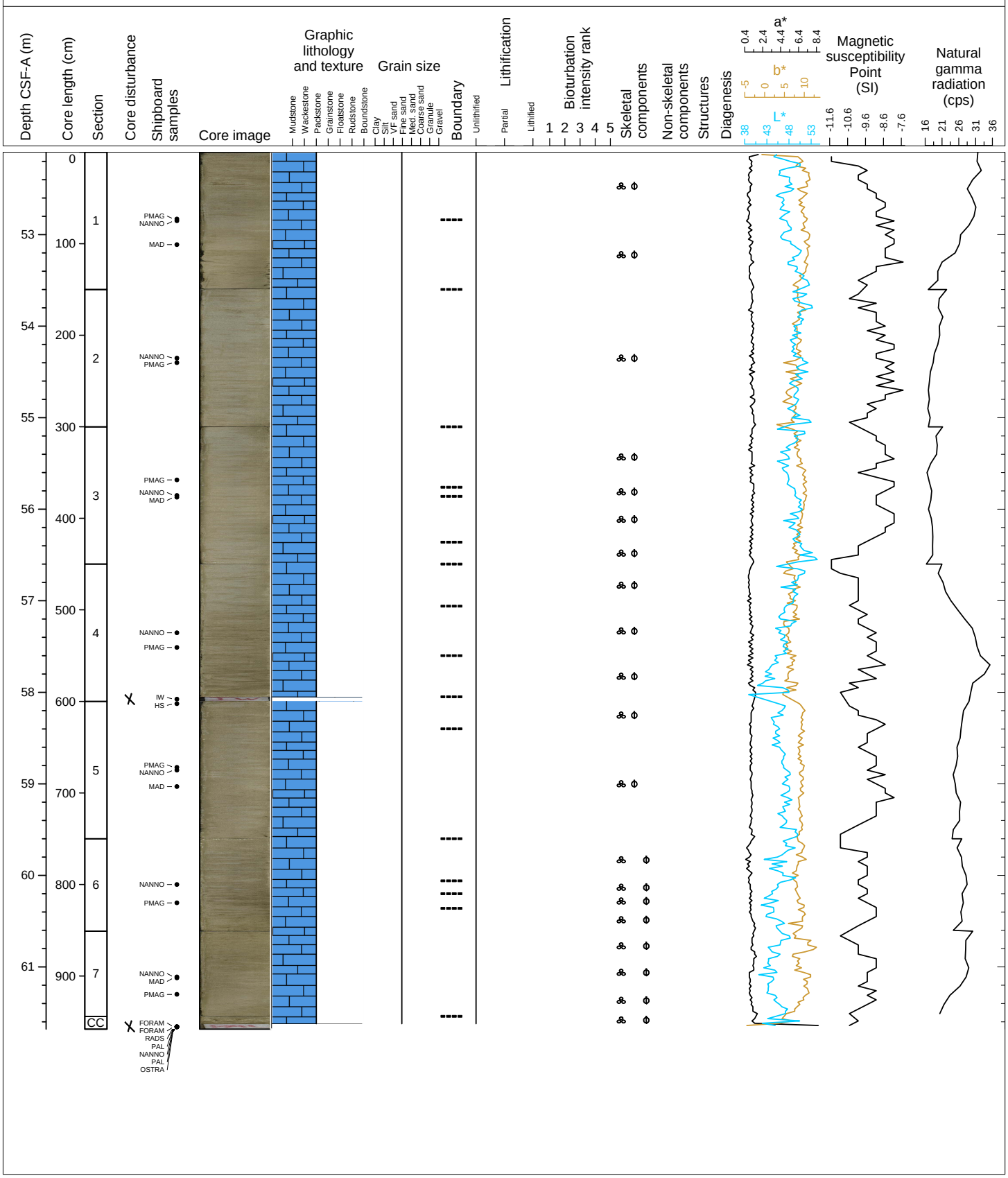
Hole 359-U1471A Core 6H, Interval 42.6-52.31 m (CSF-A)

Major lithology: Unlithified planktic foraminifera-rich PACKSTONE. Fine-grained, light brownish gray and light gray to gray. Planktic foraminifera are abundant. Mollusk fragments, echinoid fragments and benthic foraminifera are present. Aggregate grains are few. Bioturbation is complete and contacts are bioturbated and represent gradational color changes. Minor lithology: None. Remarks: None



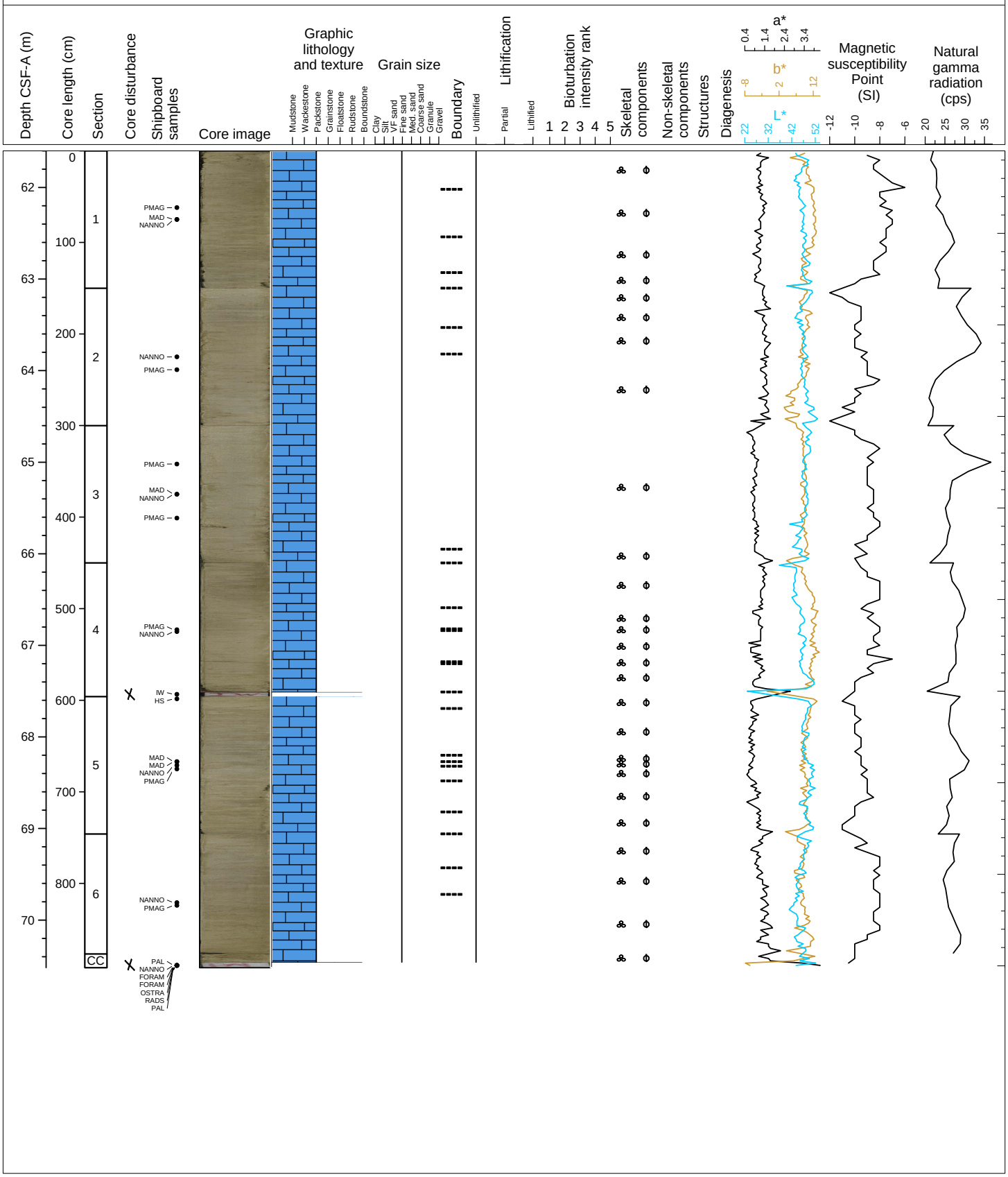
Hole 359-U1471A Core 7H, Interval 52.1-61.68 m (CSF-A)

Major lithology: Unlithified planktic foraminifera-rich PACKSTONE. Fine-grained, light brownish gray and light gray to gray. Planktic foraminifera are abundant and Mollusk fragments and aggregate grains are present. Echinoid spines, otoliths are few. Benthic foraminifera are rare. Bioturbation is complete and contacts are bioturbated and represent gradational color changes. Minor lithology: None Remarks: Cold water coral present at 7H-1, 36 cm. There is a decrease in the preservation to moderately-preserved from 7H-6, 60 cm down core.



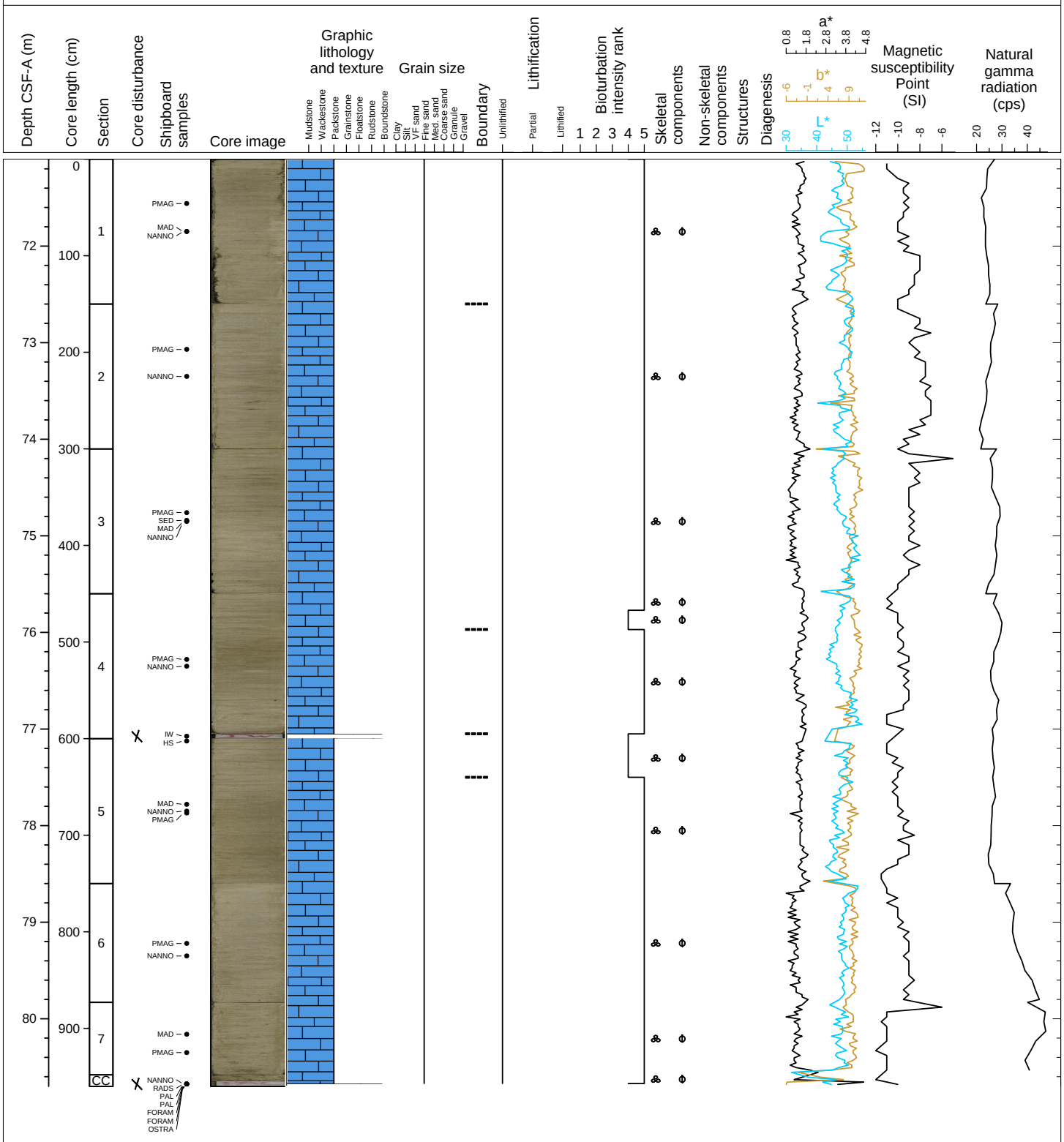
Hole 359-U1471A Core 8H, Interval 61.6-70.52 m (CSF-A)

Major lithology: Unlithified planktic foraminifera-rich PACKSTONE. Fine-grained, light brownish gray and light gray to gray. Planktic foraminifera are abundant and Mollusk fragments, otoliths and benthic foraminifera are few. Burrows commonly infilled with a coarser-grained sediment. Bioturbation is complete and contacts are bioturbated and represent gradational color changes. Mottled due to bioturbation. Minor lithology: None. Remarks: Two 2 cm thick dark interlayers with a common to abundant organic matter occur in 8H-4, 72 - 74 and 108 - 110 cm.



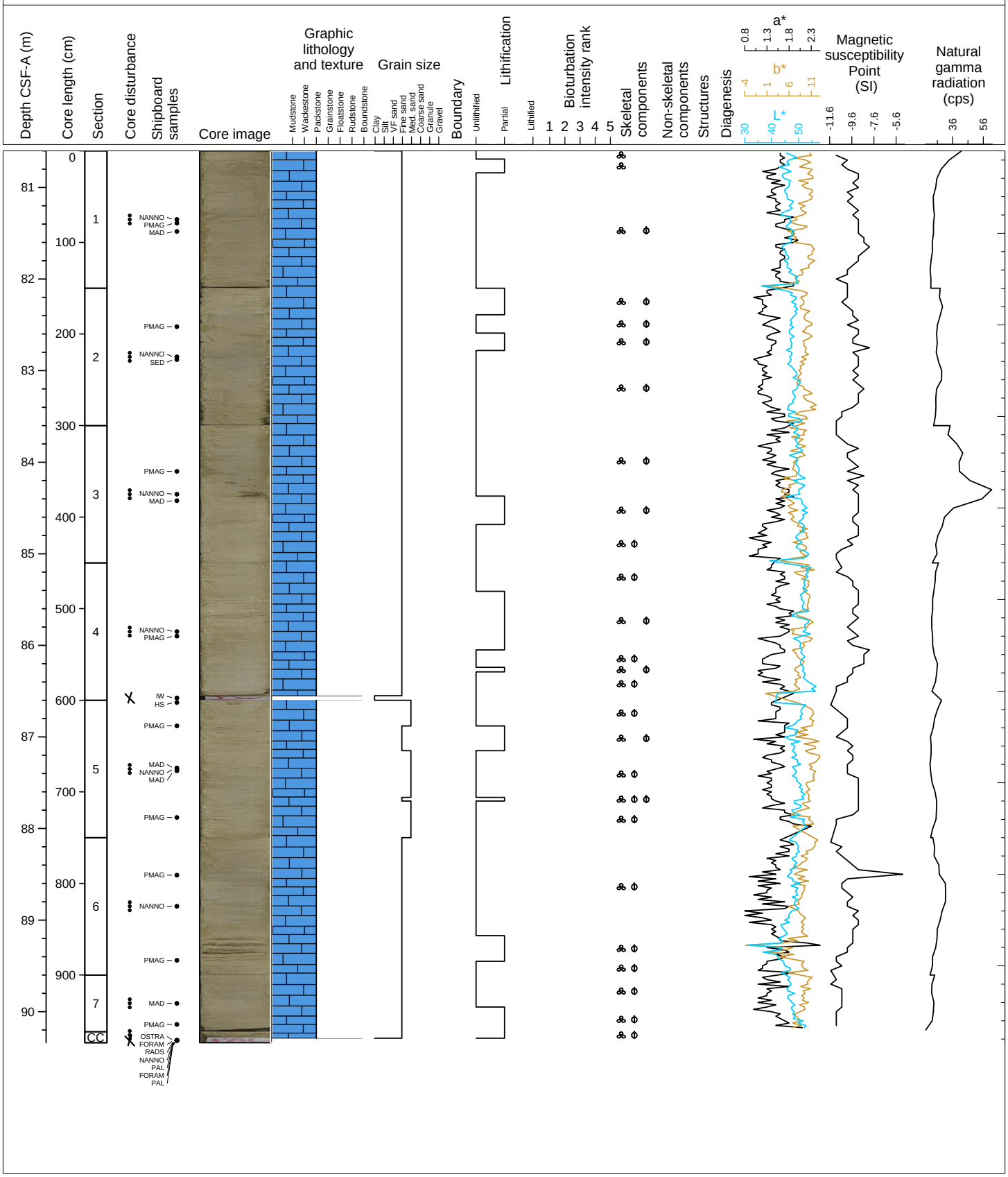
Hole 359-U1471A Core 9H, Interval 71.1-80.7 m (CSF-A)

Major lithology: Unlithified planktic foraminifera-rich PACKSTONE to WACKESTONE. Very fine- to fine-grained, light brown to grayish brown. Planktic foraminifera are abundant and mollusk fragments are common. Benthic foraminifera and otoliths, organic fragments and aggregate grains are present. Minor lithology: Burrows commonly infilled with either coarser-grained packstone or finer grained wackestone. Remarks: None.



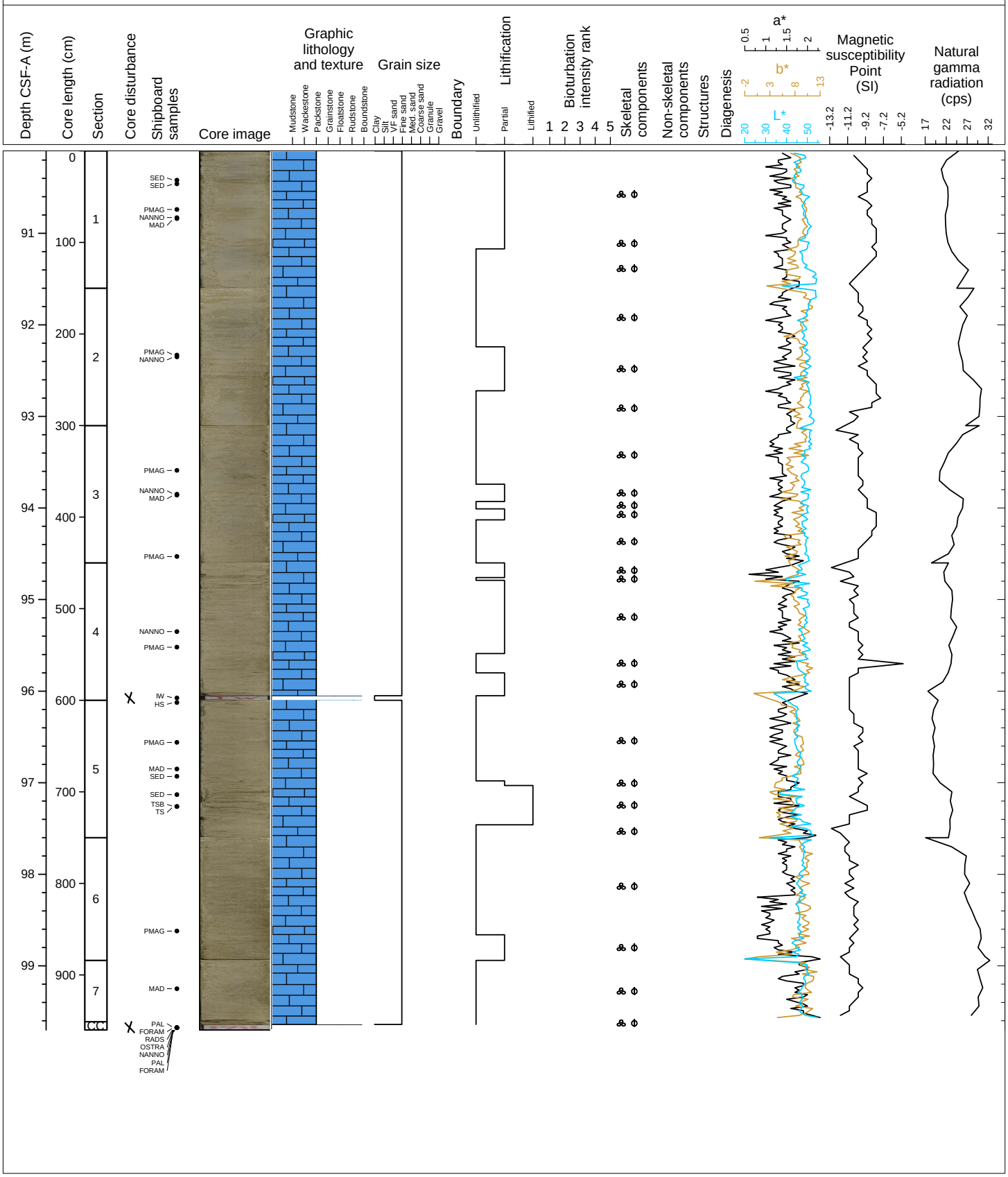
Hole 359-U1471A Core 10H, Interval 80.6-90.34 m (CSF-A)

Major lithology: Unlithified to partly lithified planktic foraminifera-rich PACKSTONE to WACKESTONE. Very fine- to fine-grained, light brown to grayish brown. Planktic foraminifera are abundant and mollusk fragments are common. Benthic foraminifera and otoliths, organic fragments and aggregate grains are present. Minor lithology: Burrows commonly infilled with either coarser-grained packstone or finer grained wackestone. Remarks: None. Remarks: induration to partly lithification starts. Clear burrows appear.



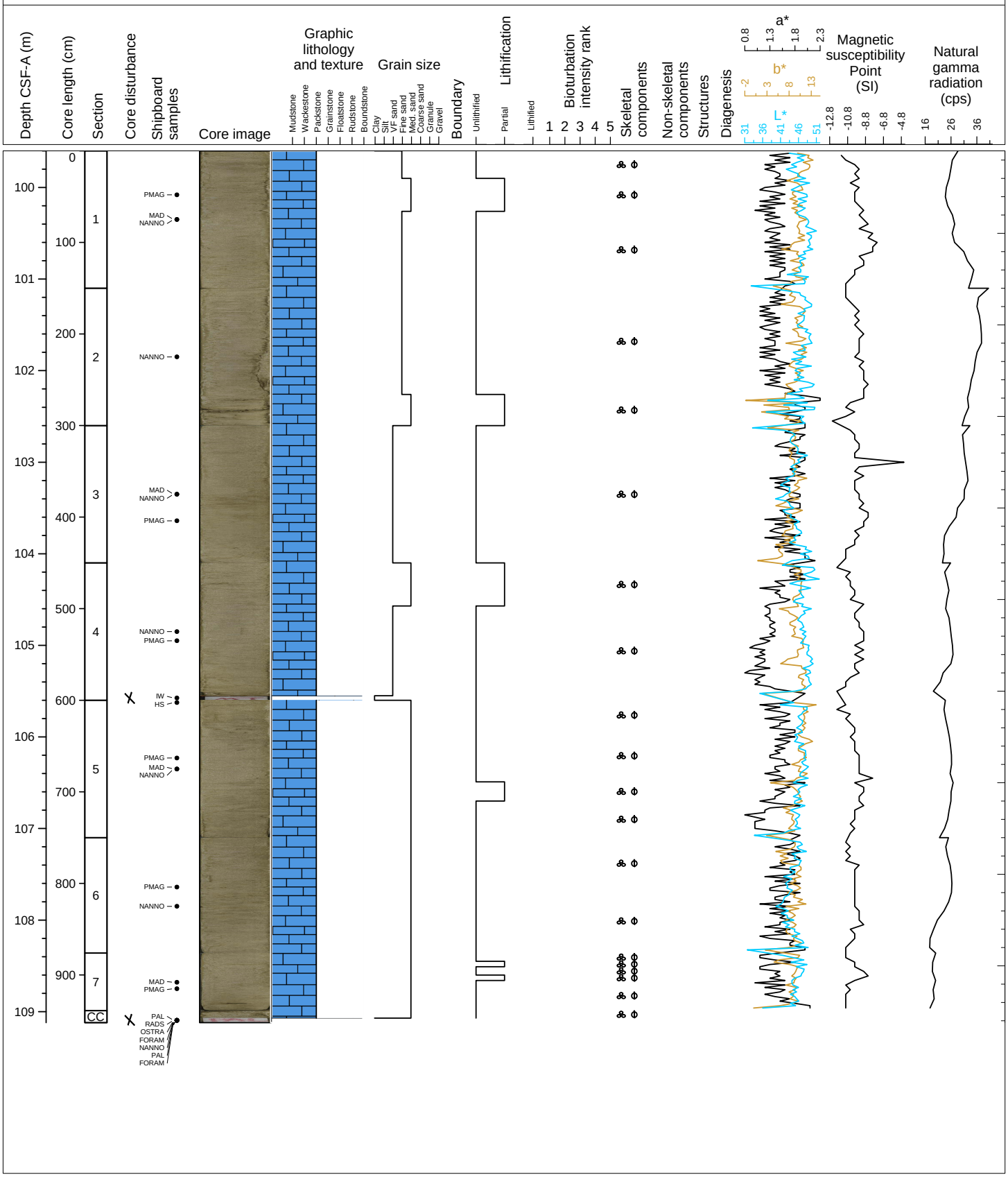
Hole 359-U1471A Core 11H, Interval 90.1-99.7 m (CSF-A)

Major lithology: Unlithified to partly lithified planktic foraminifera-rich PACKSTONE to WACKESTONE. Very fine- to fine-grained, light brown to grayish brown. Planktic foraminifera are abundant and mollusk fragments are common. Benthic foraminifera and otoliths, organic fragments and aggregate grains are present. Minor lithology: None. Remarks: none.



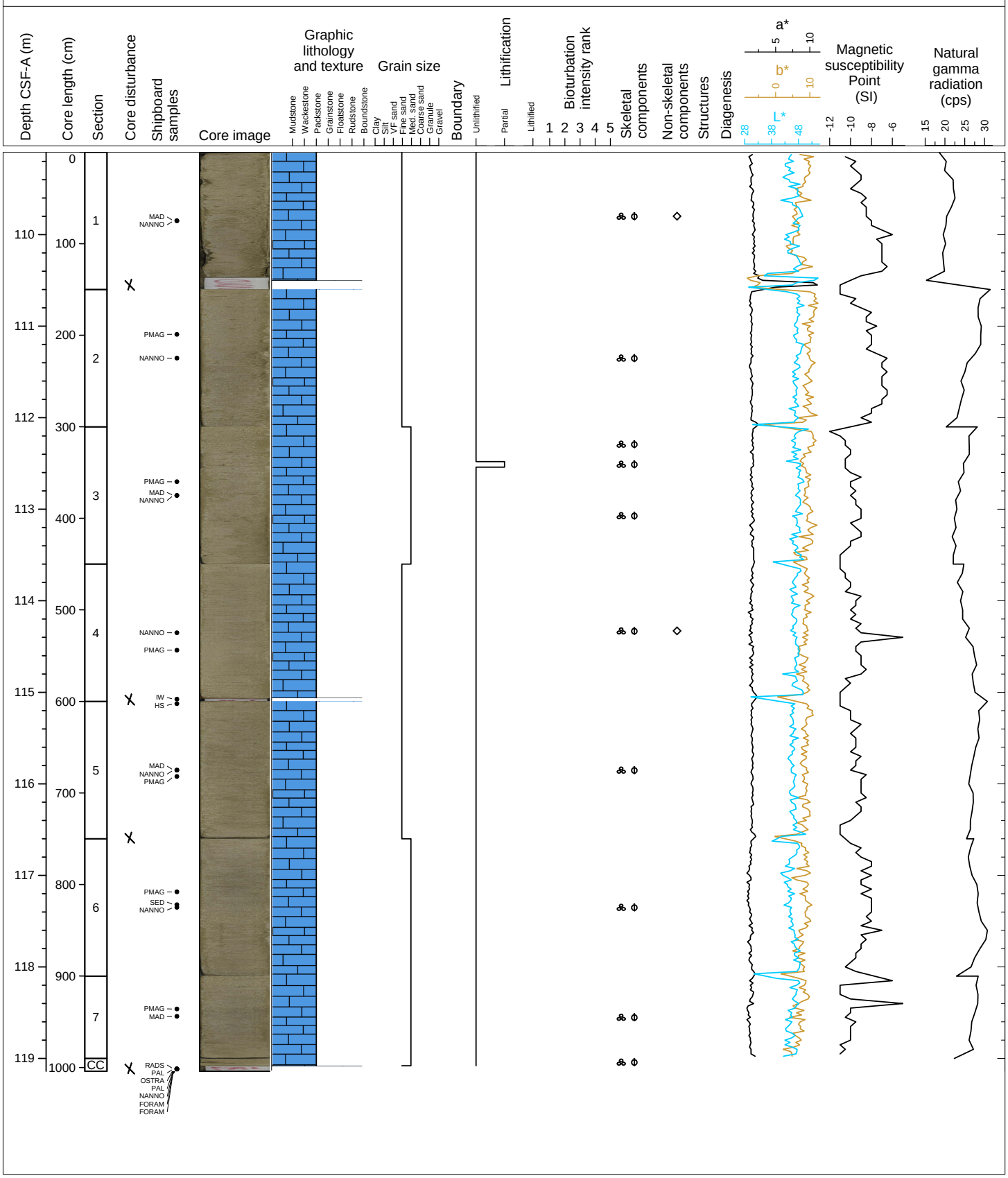
Hole 359-U1471A Core 12H, Interval 99.6-109.12 m (CSF-A)

Major lithology: Unlithified to partly lithified planktic foraminifera-rich PACKSTONE. Very fine- to fine-grained, light brown to grayish brown. Planktic foraminifera are abundant. Benthic foraminifera and otoliths, organic fragments are present. Minor lithology: none. Remarks: lithification increases.



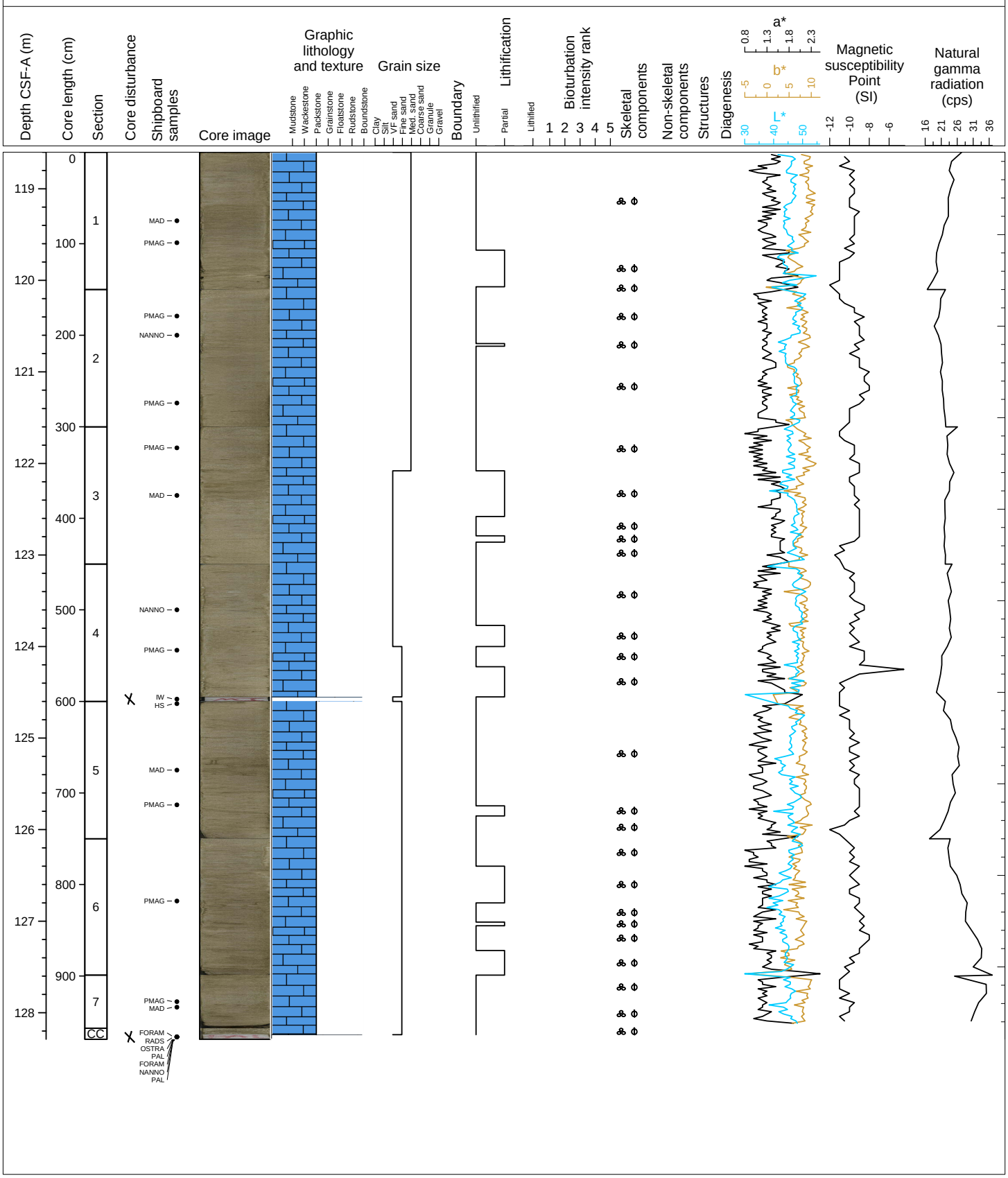
Hole 359-U1471A Core 13H, Interval 109.1-119.14 m (CSF-A)

Major lithology: Unlithified to partly lithified planktic foraminifera-rich PACKSTONE. Very fine- to fine-grained, light brown to grayish brown. Planktic foraminifera are abundant. Benthic foraminifera and otoliths, organic fragments and aggregate grains are present, occasionally slightly grain-size increases. Minor lithology: none. Remarks: lithification increases.



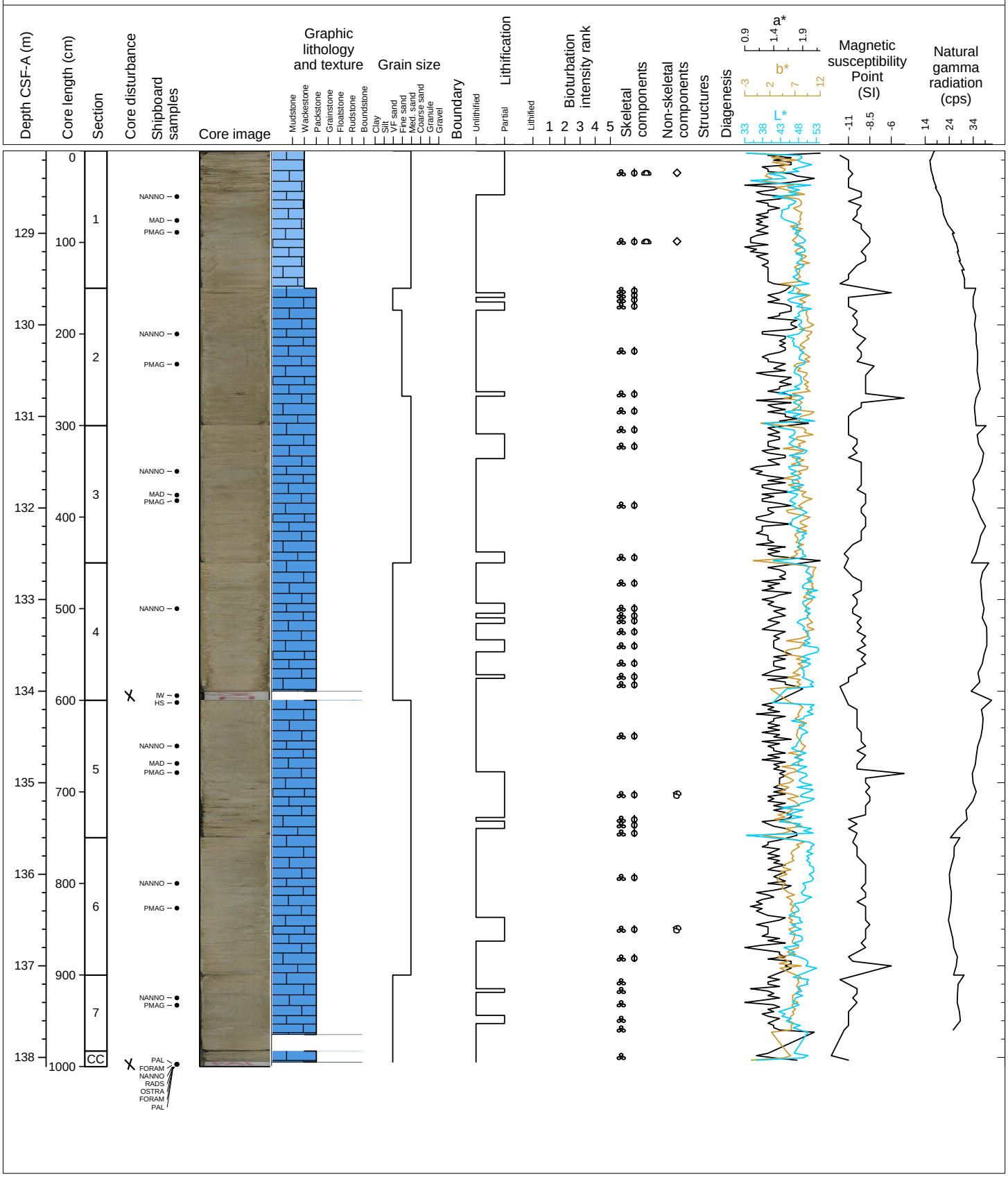
Hole 359-U1471A Core 14H, Interval 118.6-128.29 m (CSF-A)

Major lithology: Unlithified to partly lithified planktic foraminifera-rich PACKSTONE. Very fine- to fine-grained, light brown to grayish brown. Planktic foraminifera are abundant. Benthic foraminifera and otoliths, organic fragments and aggregate grains are present, occasionally slightly grain-size increases. Minor lithology: none. Remarks: Clear bioturbation is present, strong odor



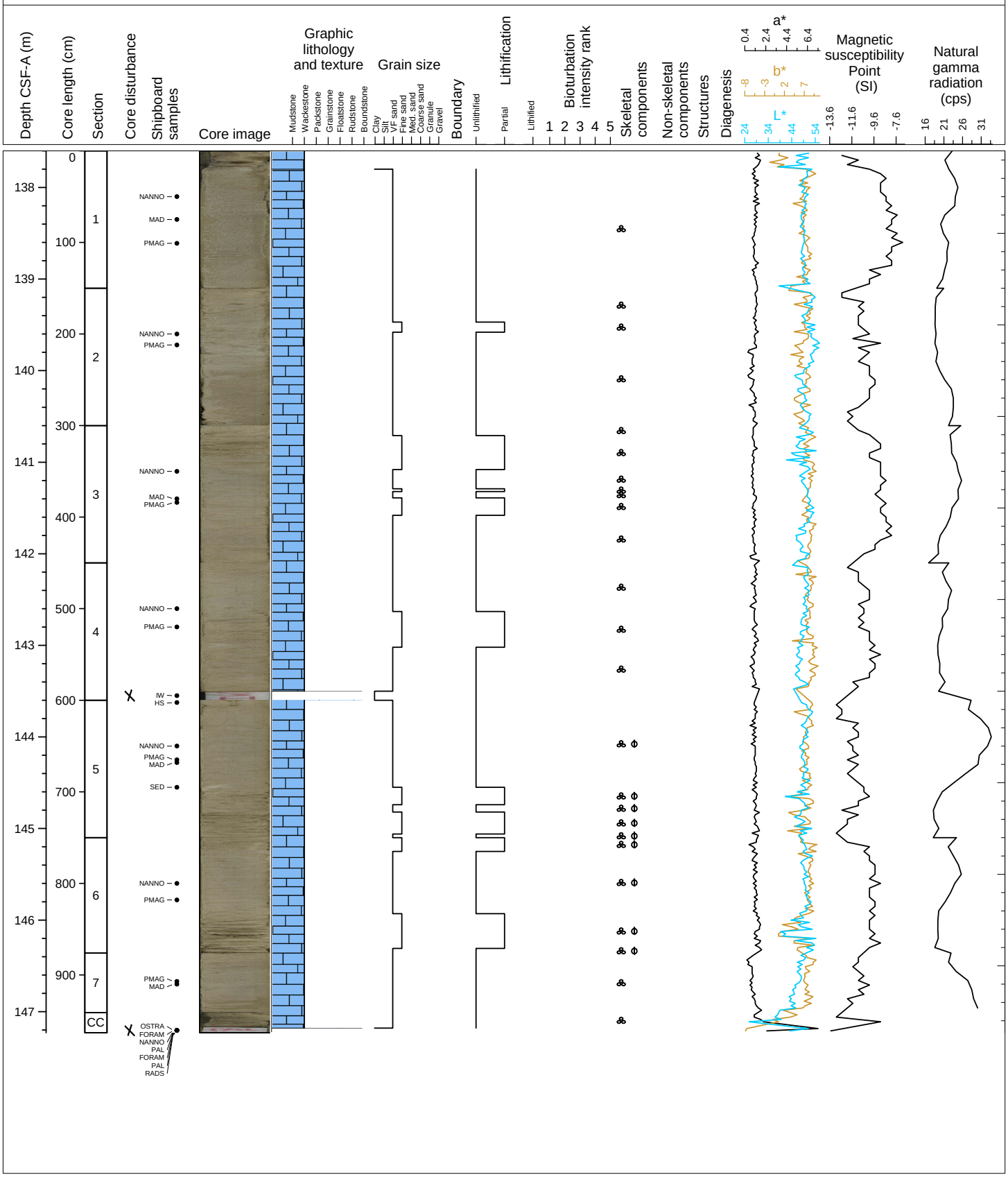
Hole 359-U1471A Core 15H, Interval 128.1-138.1 m (CSF-A)

Major lithology: Unlithified to partly lithified planktic foraminifera-rich WACKESTONE. Very fine- to fine-grained, light brown to grayish brown. Planktic foraminifera are abundant. Rare benthic foraminifera, organic fragments and aggregate grains are present. Minor lithology: none Remarks: Clear bioturbation is present, lithification increases.



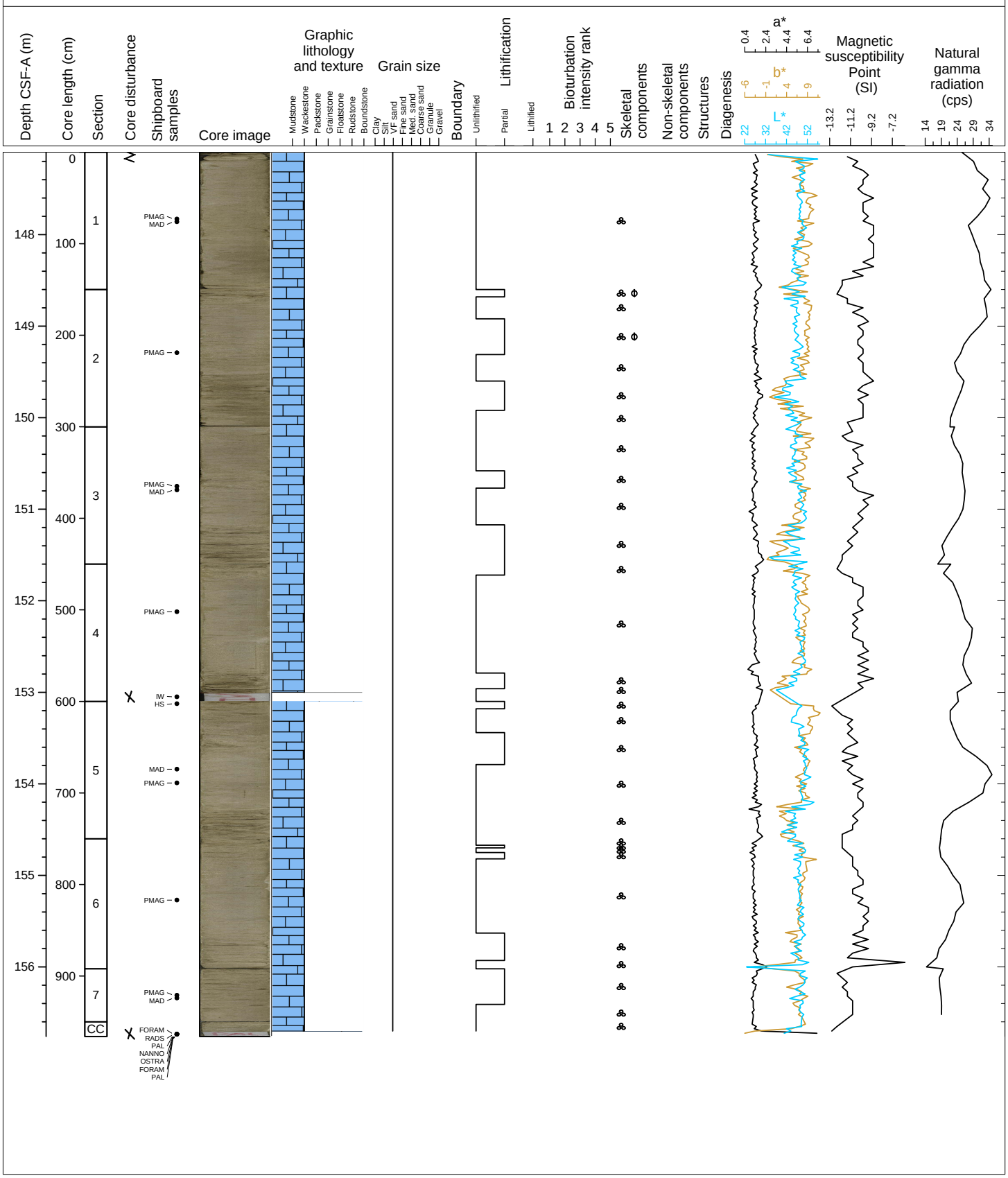
Hole 359-U1471A Core 16H, Interval 137.6-147.23 m (CSF-A)

Major lithology: Unlithified to partly lithified planktic foraminifera-rich WACKESTONE. Very fine- to fine-grained, light brown to grayish brown. Planktic foraminifera are abundant. Rare benthic foraminifera. Organic fragments are present. Minor lithology: none. Remarks: lithification increases.



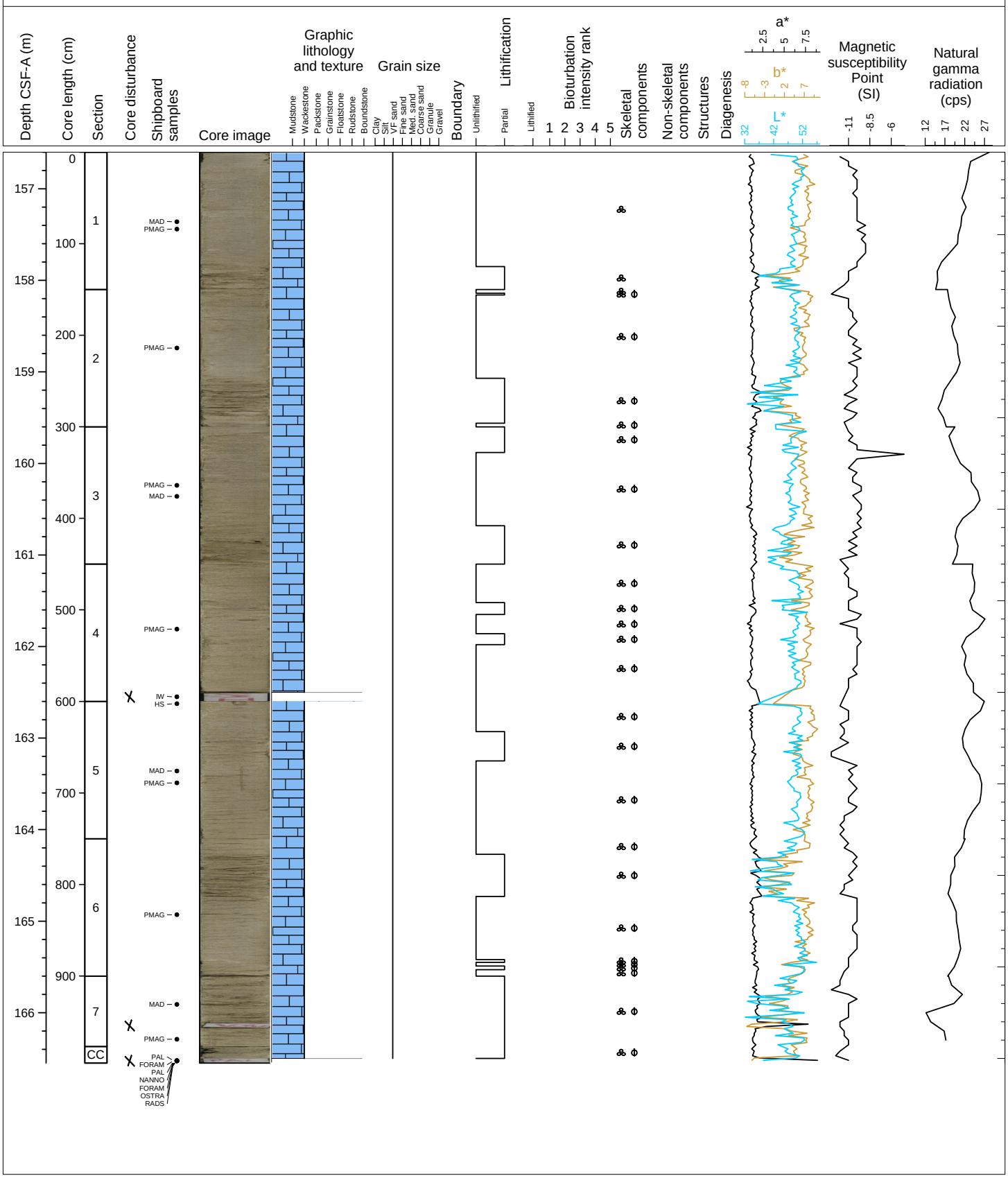
Hole 359-U1471A Core 17H, Interval 147.1-156.76 m (CSF-A)

Major lithology: Unlithified to partly lithified planktic foraminifera-rich WACKESTONE. Very fine- to fine-grained, light brown to grayish brown. Planktic foraminifera are abundant. Rare benthic foraminifera. Organic fragments present. Minor lithology: none. Remarks: lithification increases.



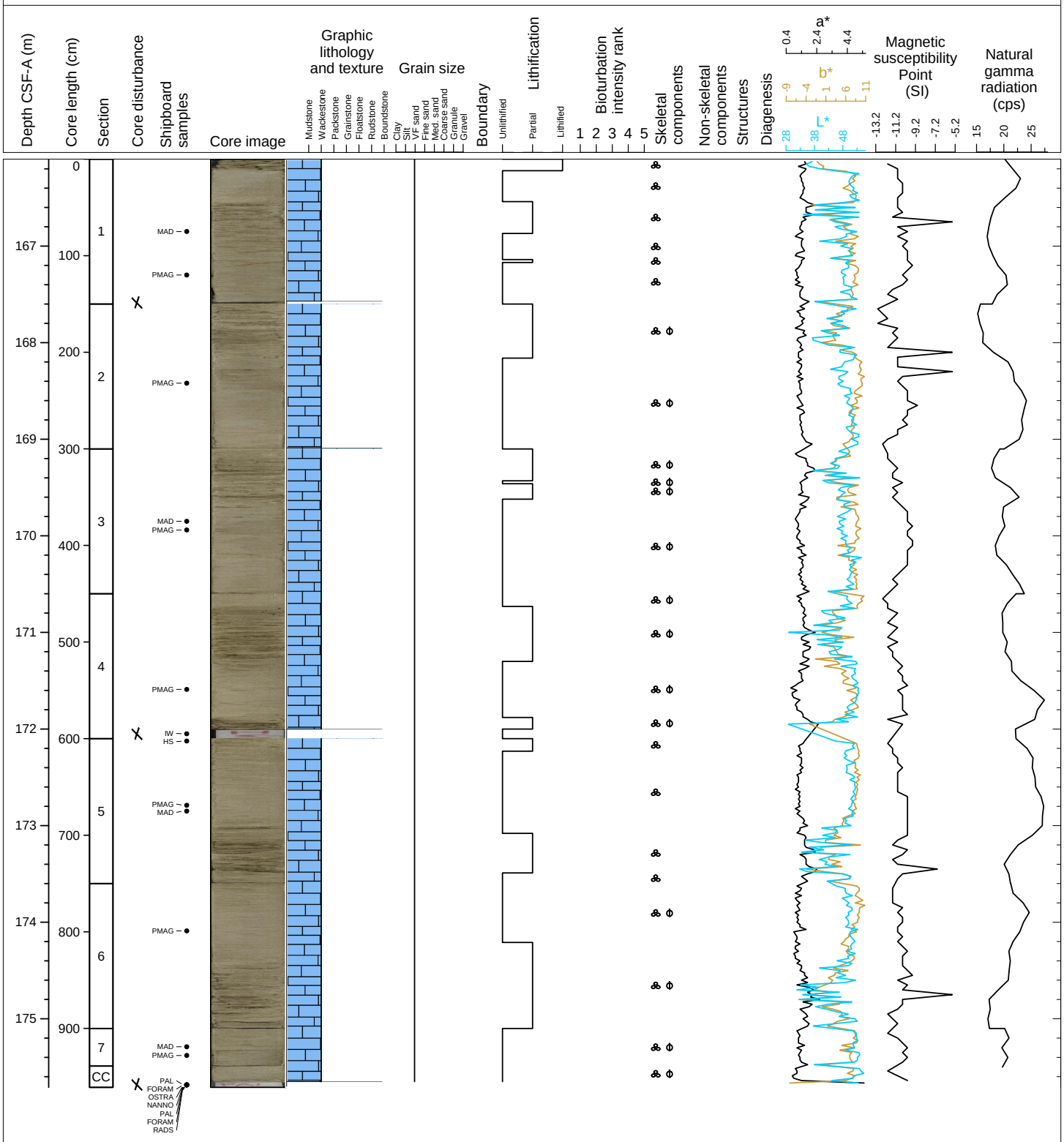
Hole 359-U1471A Core 18H, Interval 156.6-166.55 m (CSF-A)

Major lithology: Unlithified to partly lithified planktic foraminifera-rich WACKESTONE. Very fine- to fine-grained, light brown to grayish brown. Planktic foraminifera are abundant. Rare benthic foraminifera. Organic fragments present. Minor lithology: none. Remarks: lithification increases.



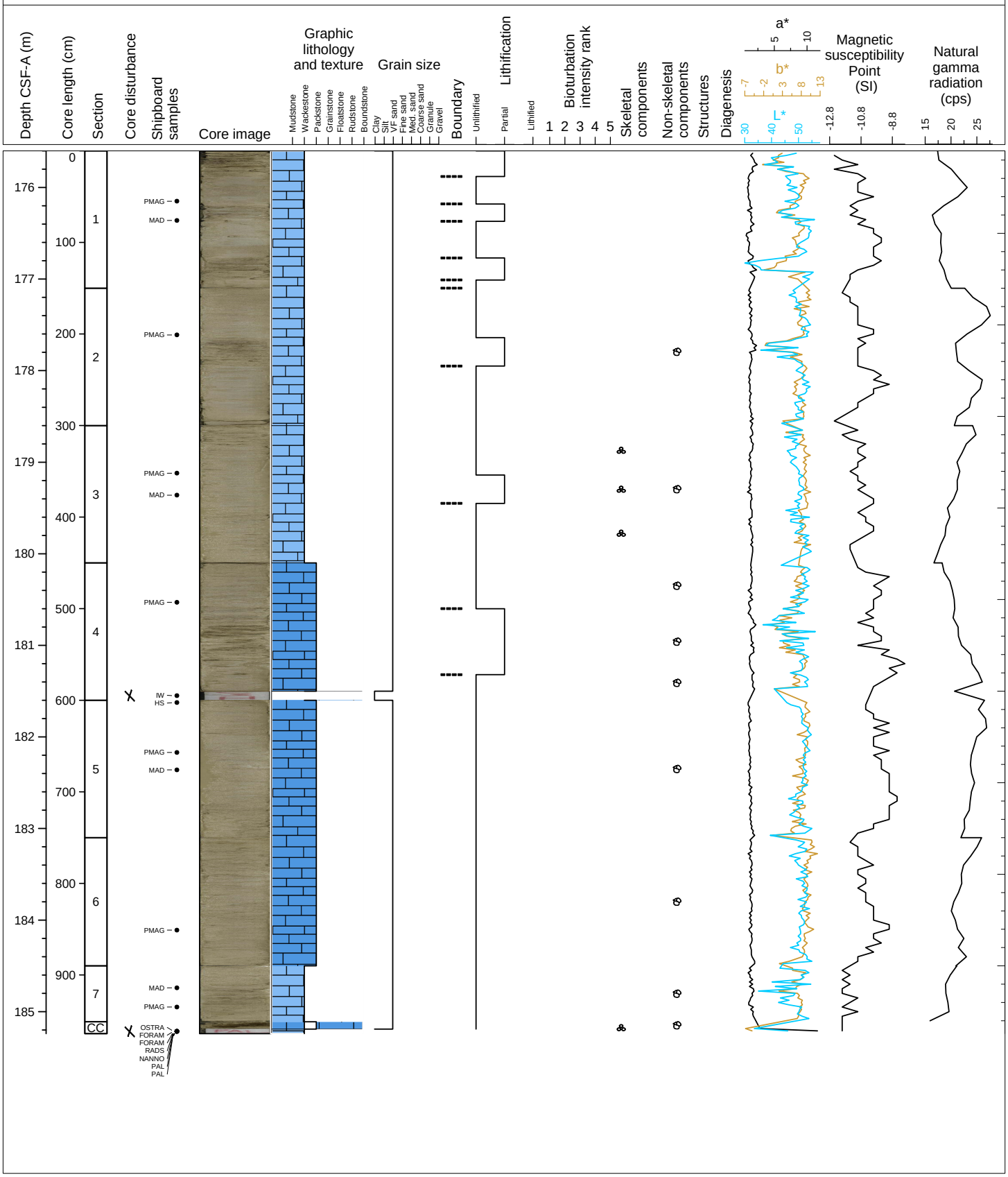
Hole 359-U1471A Core 19H, Interval 166.1-175.71 m (CSF-A)

Major lithology: Unlithified to partly lithified planktic foraminifera-rich WACKESTONE. Very fine- to fine-grained, light brown to grayish brown. Planktic foraminifera are abundant. Rare benthic foraminifera. Organic fragments present. Minor lithology: none. Remarks: lithification increases.



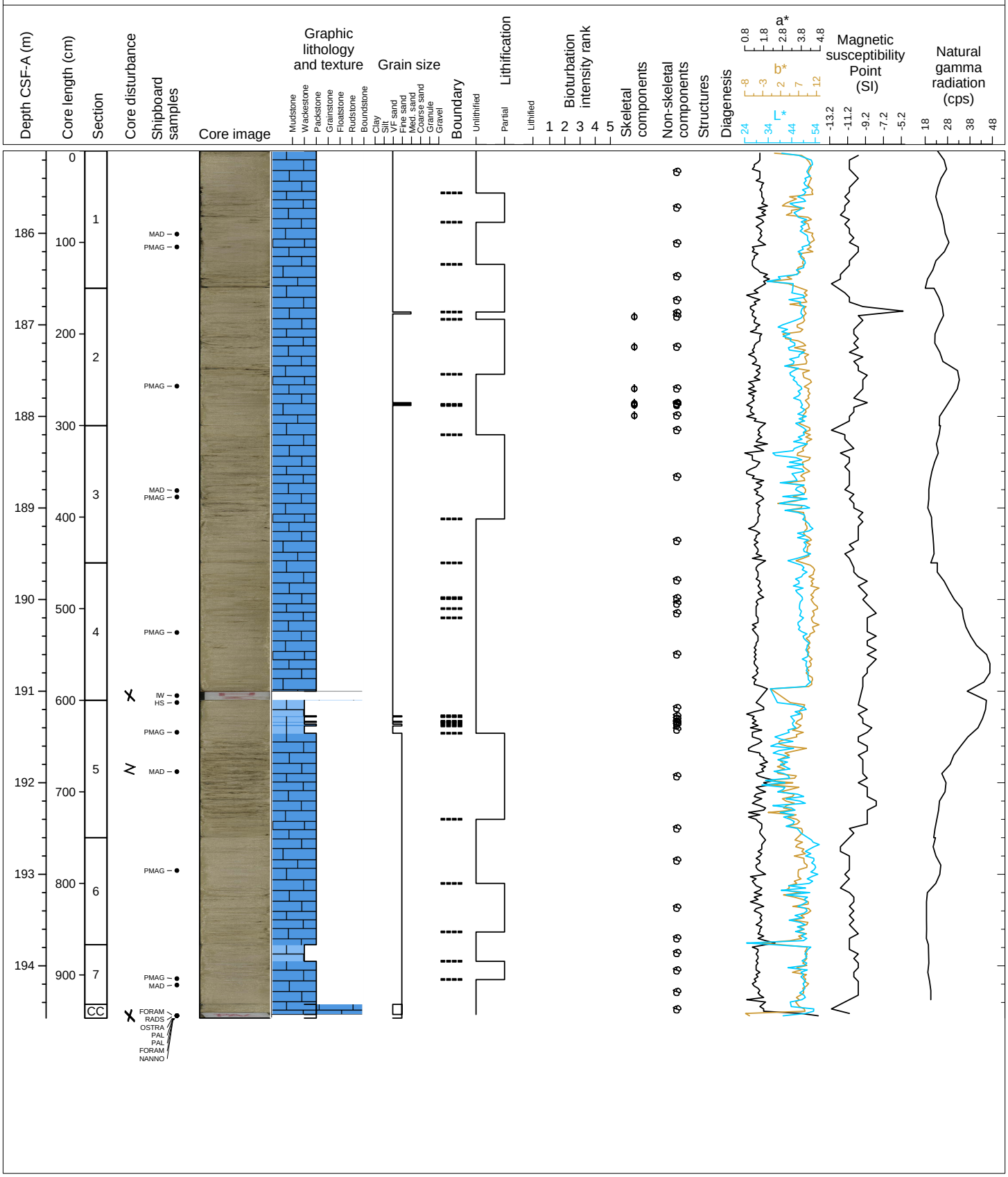
Hole 359-U1471A Core 20H, Interval 175.6-185.24 m (CSF-A)

Major lithology: Unlithified to partially lithified calcareous bioclast-rich PACKSTONE. Very fine- to fine-grained, light grayish brown to gray. Bioclasts are abundant and aggregate grains/intraclasts are present. Planktic foraminifera are rare and poorly preserved. Organic matter is present, commonly concentrated as burrow infill. Bioturbation is complete. Remarks: Interlayered thin (<) medium (10 cm - 30 cm) partially lithified PACKSTONE to WACKESTONE are common throughout the core. Minor lithology: none.



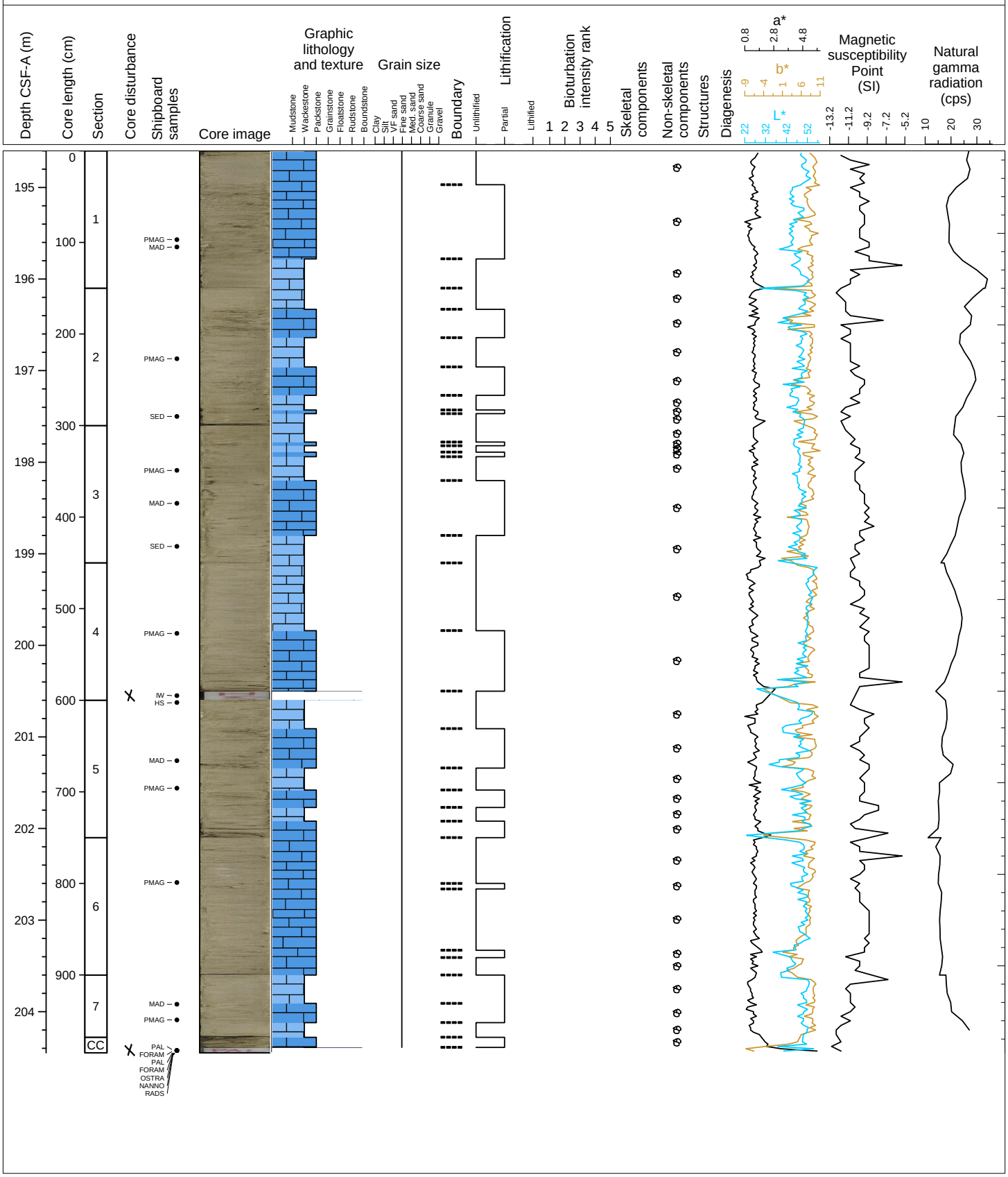
Hole 359-U1471A Core 21H, Interval 185.1-194.57 m (CSF-A)

Major lithology: Unlithified to partially lithified calcareous calcareous bioclast-rich PACKSTONE with interlayered unlithified calcareous bioclast-rich WACKESTONE in 21H-5, 00 - 17cm; 23-24 cm; 28-36 cm; and, 21H-7, 00 - 18 cm. Very fine- to fine-grained, light grayish brown to gray. Bioclasts and aggregate grains/intraclasts are abundant. Sieved faction shows that benthic foraminifera Amphistegina are rare and few Uvigerina. Bioturbation is complete. Contacts are gradation between unlithified and partially lithified sediment and gradational color change. Minor lithology: None. Remarks: None.



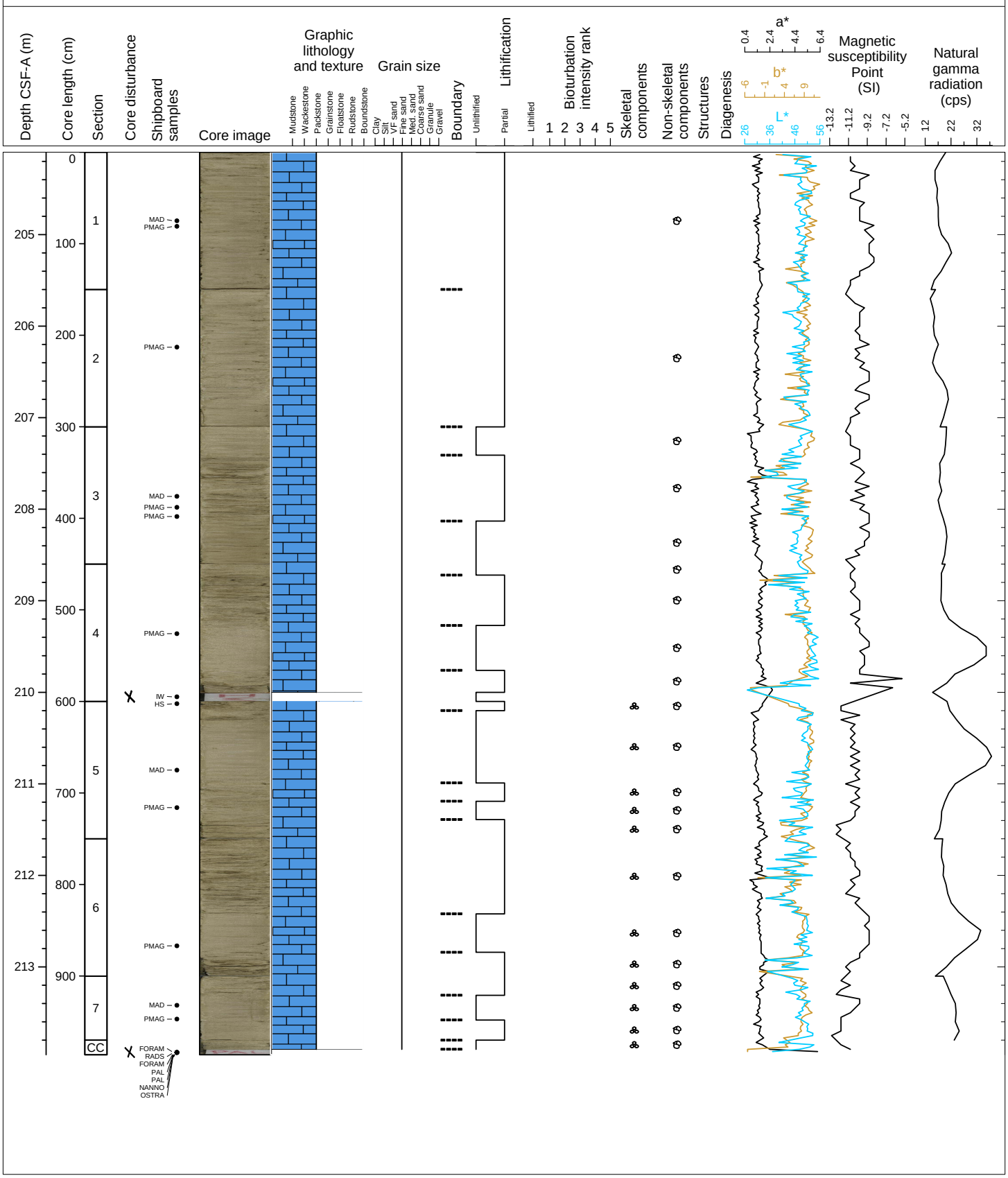
Hole 359-U1471A Core 22H, Interval 194.6-204.45 m (CSF-A)

Major lithology: Unlithified to partially lithified calcareous bioclast-rich PACKSTONE and interlayered unlithified calcareous bioclast-rich WACKESTONE. Very fine- to fine-grained, light grayish brown to gray. Bioclasts and aggregate grains/intraclasts are abundant. Bioturbation is complete with burrow commonly more lithified. Contacts are gradation between unlithified and partially lithified sediments. Minor lithology: None. Remarks: None.



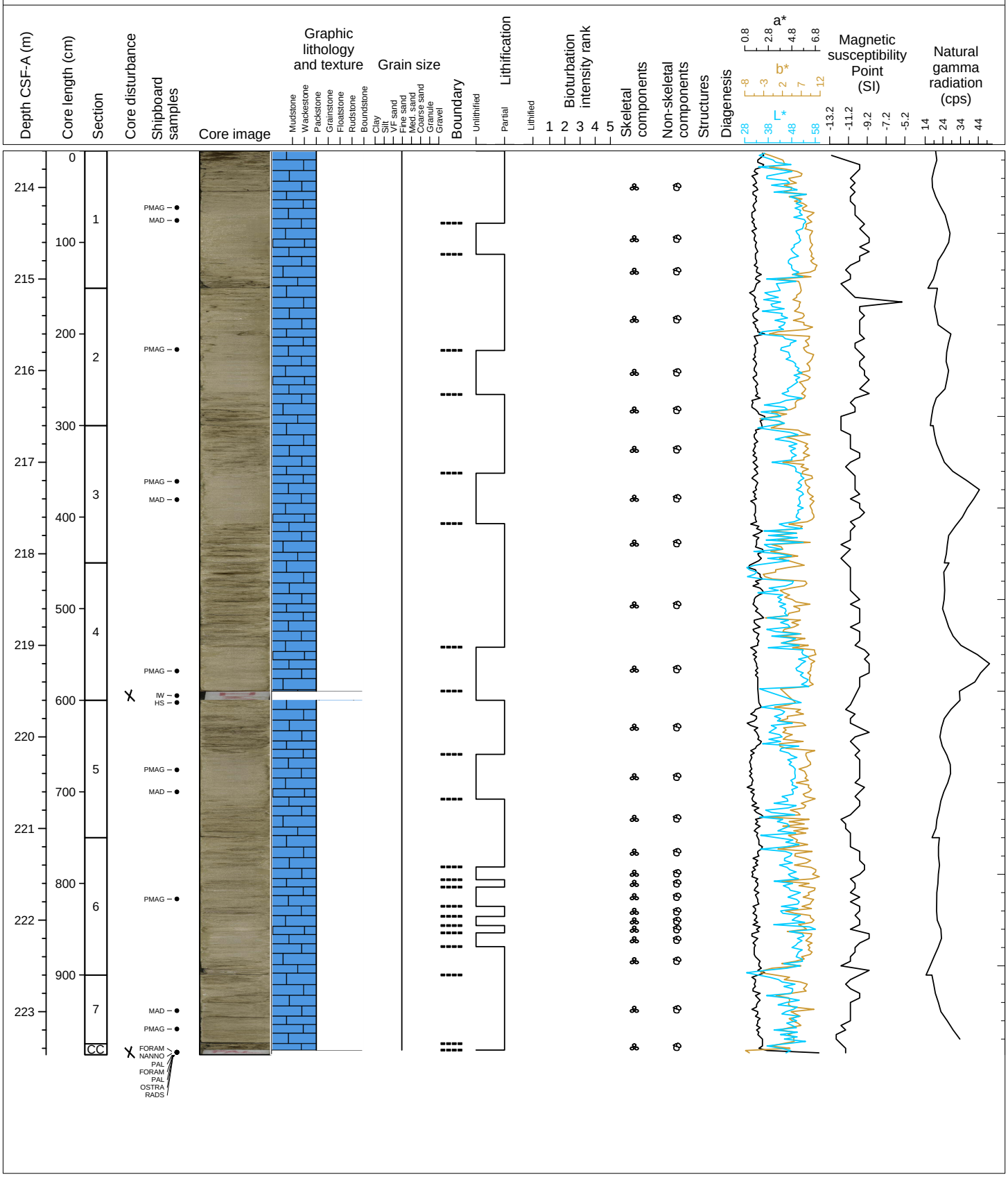
Hole 359-U1471A Core 23H, Interval 204.1-213.96 m (CSF-A)

Major lithology: Interlayered partially lithified and unlithified calcareous bioclast-rich PACKSTONE. Fine-grained, light brown. Bioclasts and aggregate grains/intraclasts are present. Benthic and planktic foraminifera, echinoid spines and fish remains are present. Bioturbation is complete with burrow commonly more lithified. Contacts are gradation between unlithified and partially lithified sediments. Minor lithology: None. Remarks: None.



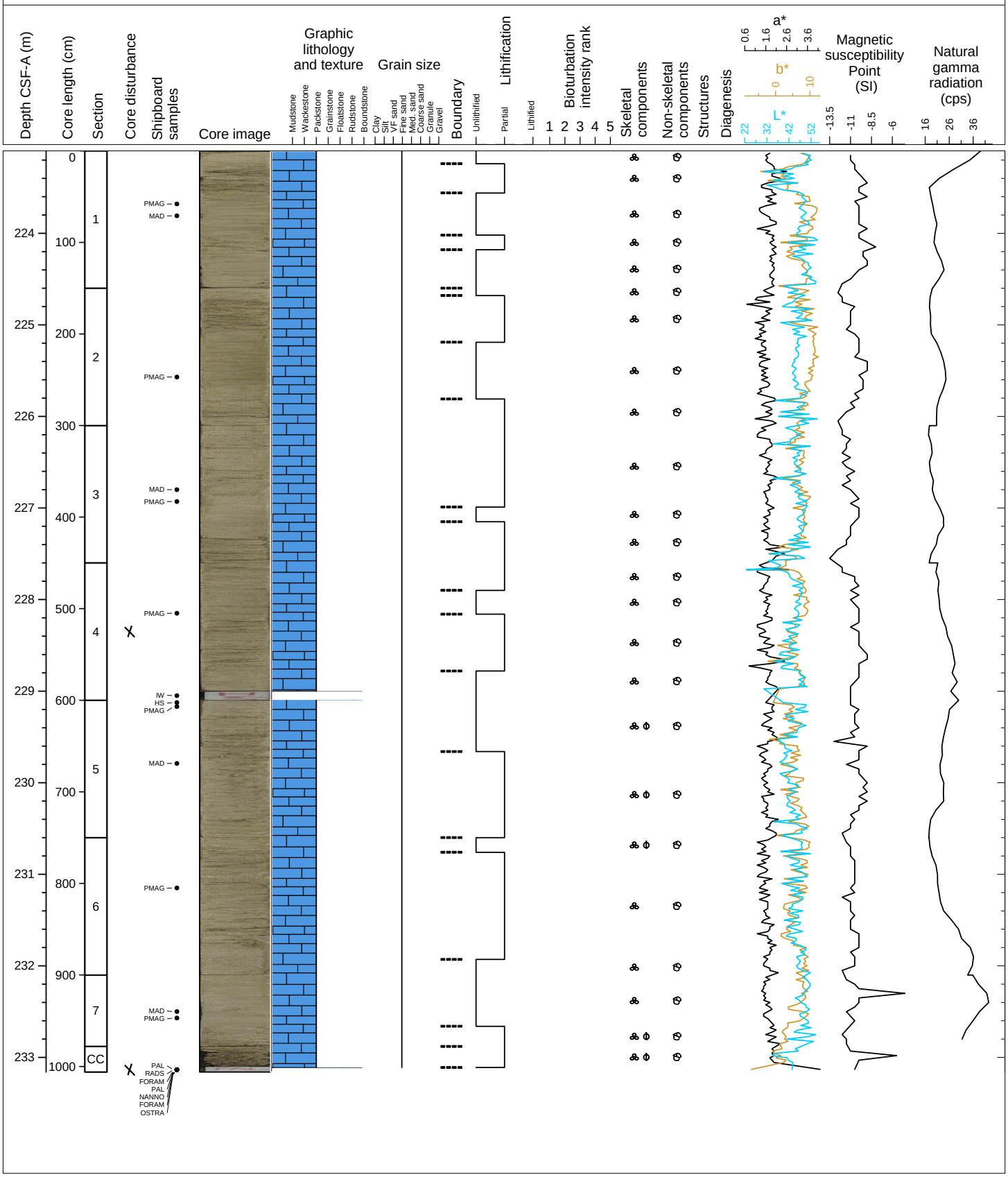
Hole 359-U1471A Core 24H, Interval 213.6-223.47 m (CSF-A)

Major lithology: Interlayered partially lithified and unlithified calcareous bioclast-rich PACKSTONE. Fine-grained, light brown. Bioclasts and aggregate grains/intraclasts are present. Planktic foraminifera and organic matter are present. Bioturbation is complete with burrow commonly more lithified. Contacts are gradation between unlithified and partially lithified sediments. Minor lithology: Wacke/packstone in the more unconsolidated intervals. None. Remarks: None.



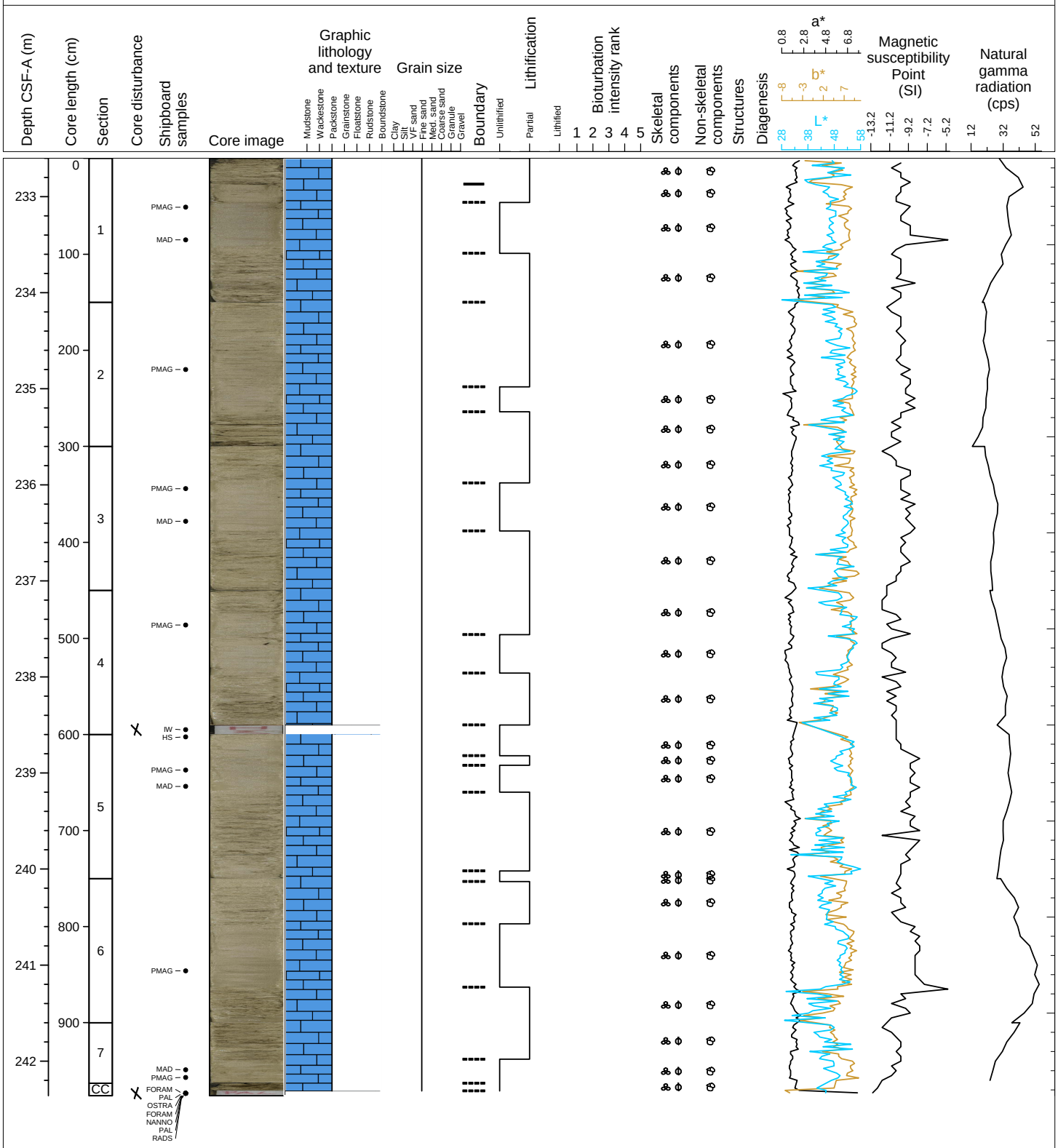
Hole 359-U1471A Core 25H, Interval 223.1-233.16 m (CSF-A)

Major lithology: Interlayered partially lithified and unlithified calcareous bioclast-rich PACKSTONE. Fine-grained, light brown. Bioclasts and aggregate grains/intraclasts are present. Planktic foraminifera and organic matter are present. Bioturbation is complete with burrow commonly more lithified. Contacts are gradation between unlithified and partially lithified sediments. Minor lithology: None. Remarks: None.



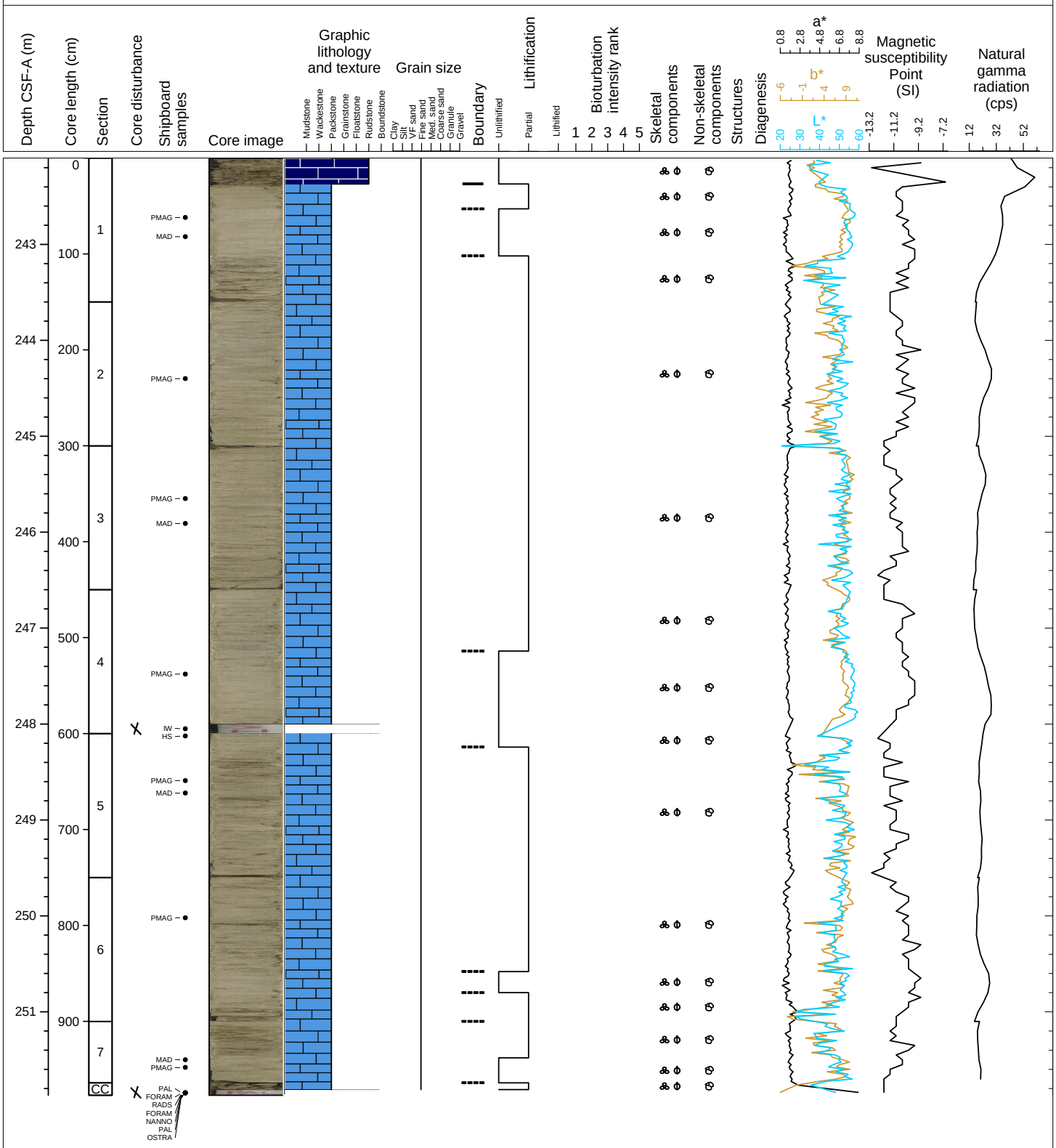
Hole 359-U1471A Core 26H, Interval 232.6-242.36 m (CSF-A)

Major lithology: Interlayered partially lithified and unlithified calcareous bioclast-rich PACKSTONE. Fine-grained, light brown. Bioclasts and aggregate grains/intraclasts are present. Planktic foraminifera are abundant and organic matter, echinoid spines and fish debris are present. Bioturbation is complete with burrow commonly more lithified. Contacts are gradation between unlithified and partially lithified sediments. Minor lithology: None. Remarks: Cave-in for the top 27 cm of the core.



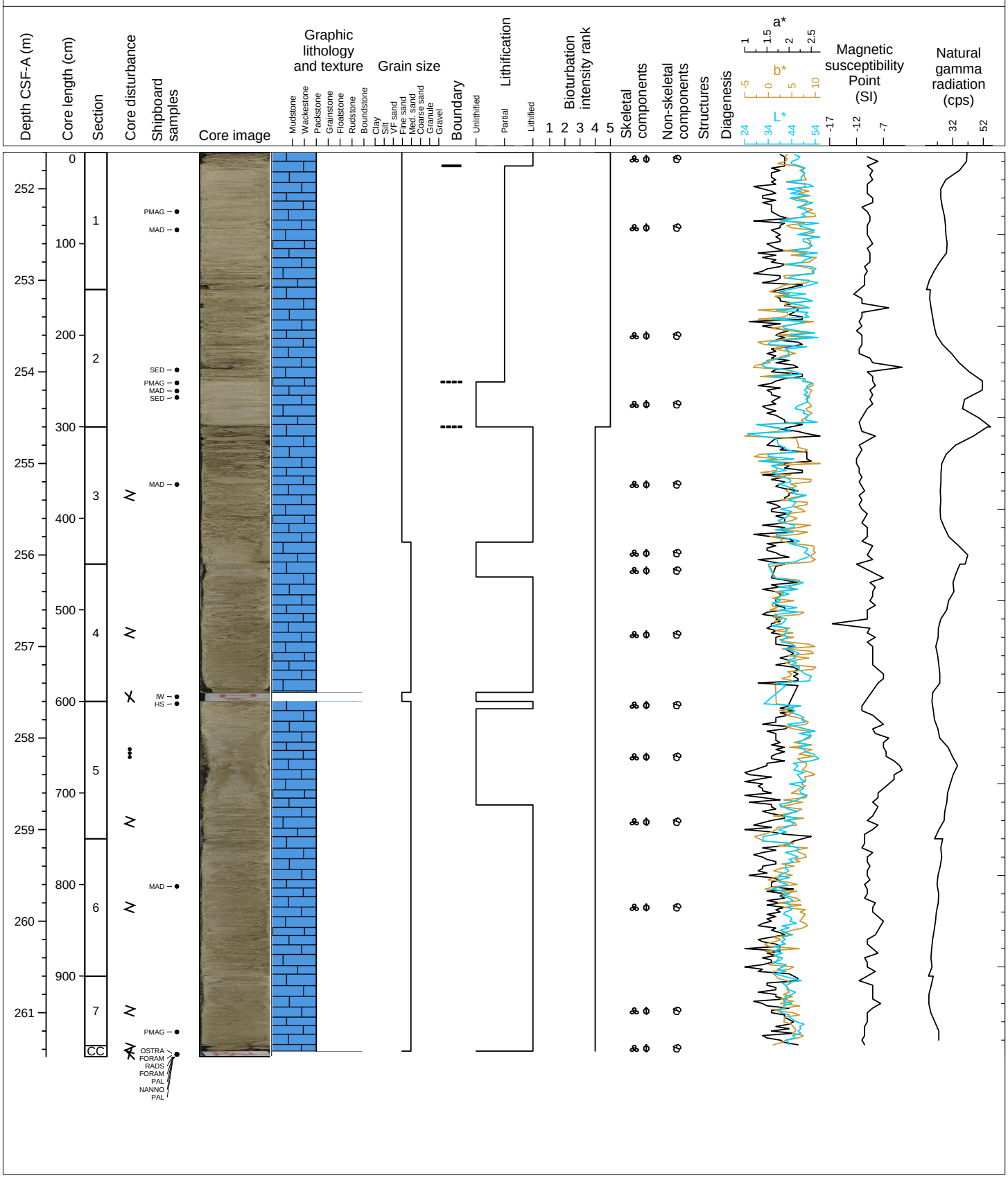
Hole 359-U1471A Core 27H, Interval 242.1-251.87 m (CSF-A)

Major lithology: Interlayered partially lithified and unlithified calcareous bioclast-rich PACKSTONE. Fine-grained, light brown. Bioclasts and aggregate grains/intraclasts are present. Planktic foraminifera are and aggregate grains are abundant and organic matter and echinoid spines are present. Bioturbation is complete. Contacts are gradation between unlithified and partially lithified sediments. Minor lithology: None. Remarks: Cave-in for the top 27 cm of the core.



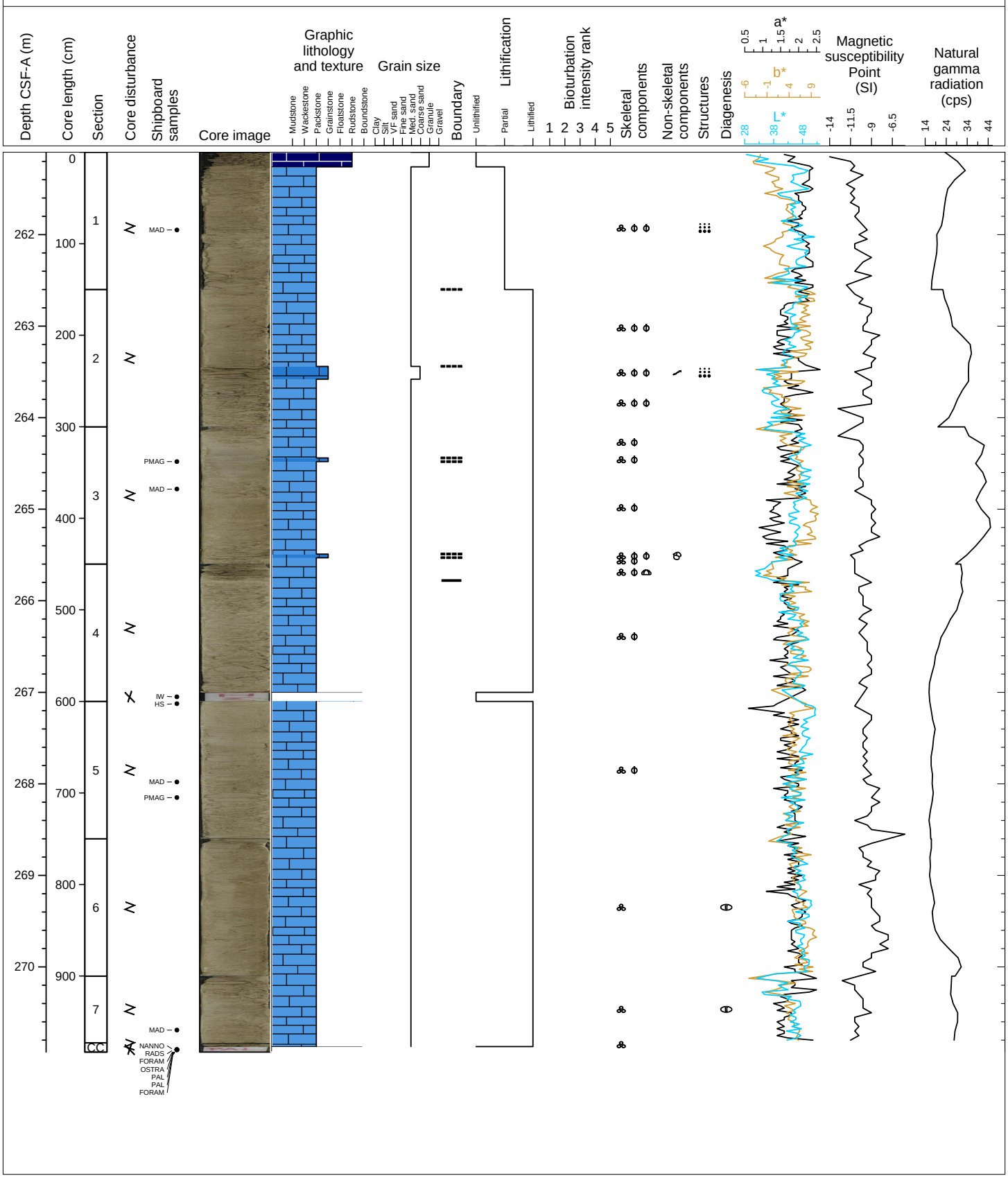
Hole 359-U1471A Core 28H, Interval 251.6-261.48 m (CSF-A)

Major lithology: Interlayered partially lithified and unlithified calcareous bioclast-rich PACKSTONE (28H-1 00 -2, 28H-2, 150 cm). Fine-grained, light brown. Bioclasts and aggregate grains/intraclasts are present. Planktic foraminifera are and aggregate grains are abundant and organic matter and echinoid spines are present. Bioturbation is complete. Contacts are gradation between unlithified and partially lithified sediments. Lithified medium- to fine- grained PACKSTONE (28H-3, 00 cm to base of core). Planktic foraminifera and bioclasts are abundant. Benthic foraminifera are few and increase down core to common to abundant (Amphistegina). Organic matter is common to abundant. Mollusk fragments and lithoclasts are present. Celestite present in some burrows. Moldic porosity. Minor lithology: None. Remarks: Lithified intervals are fractured and contacts between lithified and unlithified intervals is disturbed.



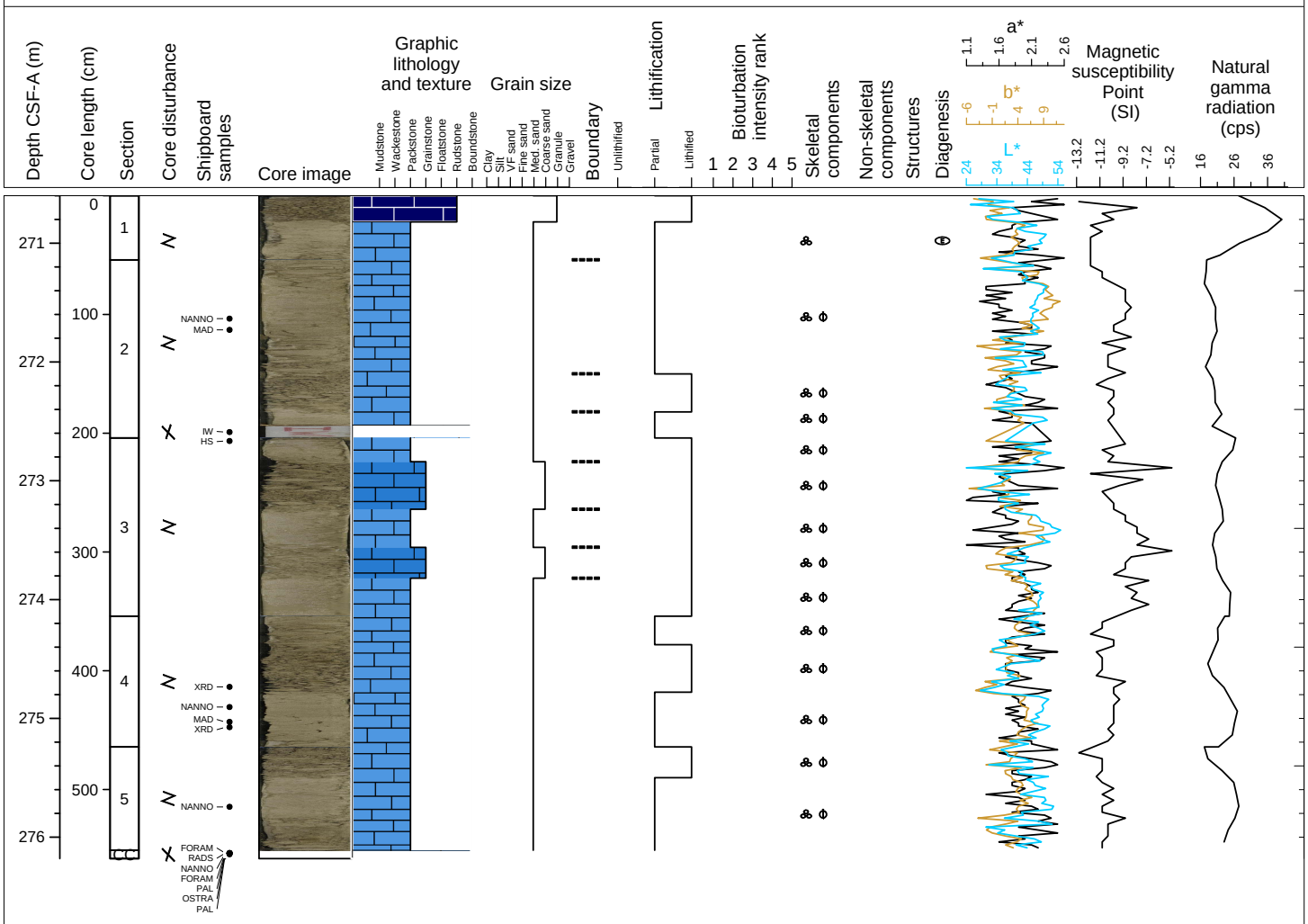
Hole 359-U1471A Core 29H, Interval 261.1-270.93 m (CSF-A)

Main lithology: Lithified planktic foraminifera-rich PACKSTONE. Medium-grained, light gray to light grayish brown. Planktic foraminifera are abundant, benthic foraminifera are, aggregate grains are present, echinoid spins are rare. Minor: None. Remarks: None.



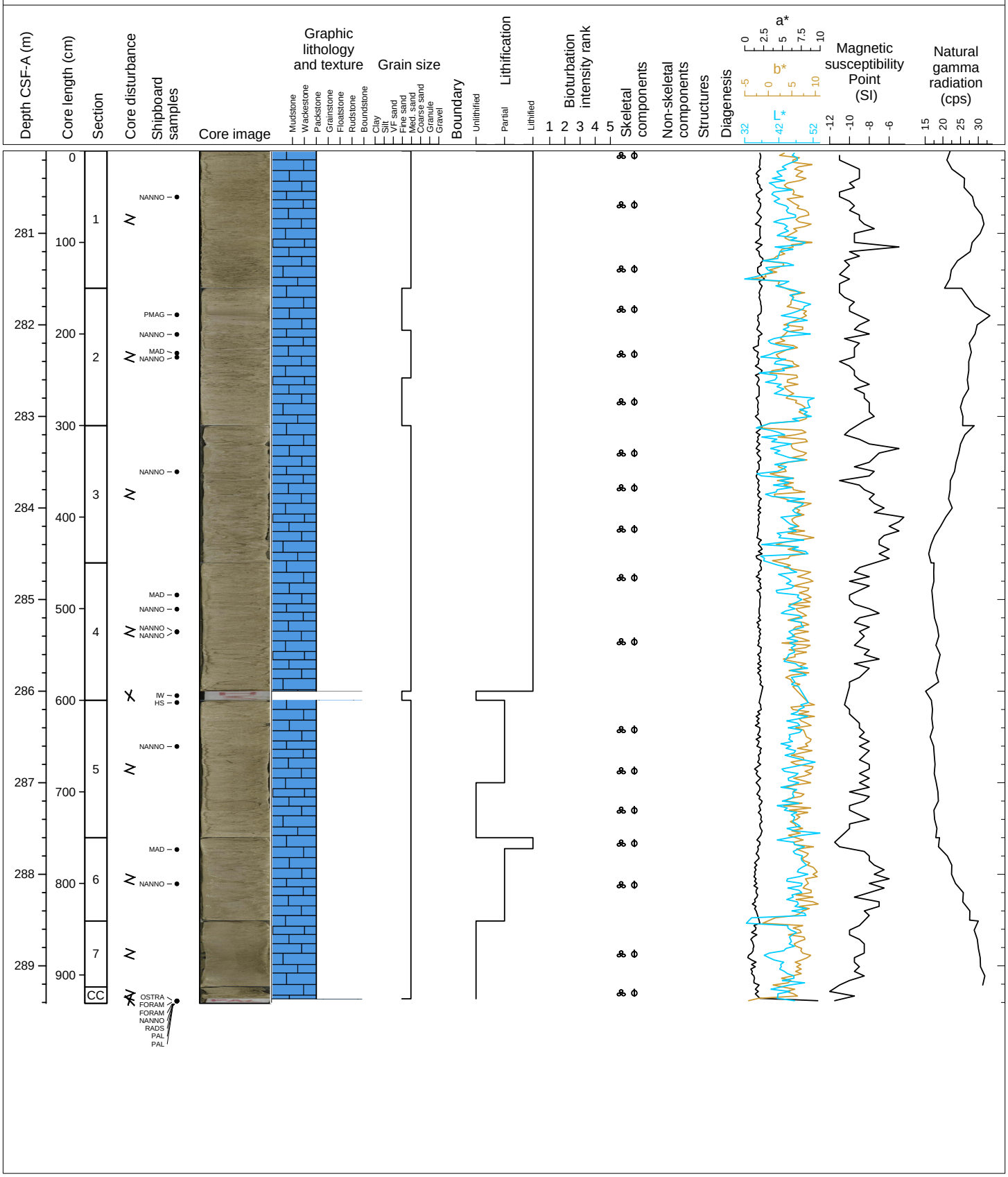
Hole 359-U1471A Core 30H, Interval 270.6-276.18 m (CSF-A)

Main lithology: Interlayered partially lithified and lithified planktic foraminifera-rich PACKSTONE. Medium-grained, light gray. Interlayered coarse-grained GRAINSTONE 30H-3A, 118 - 150. Planktic foraminifera are abundant. Minor: None. Remarks: None.



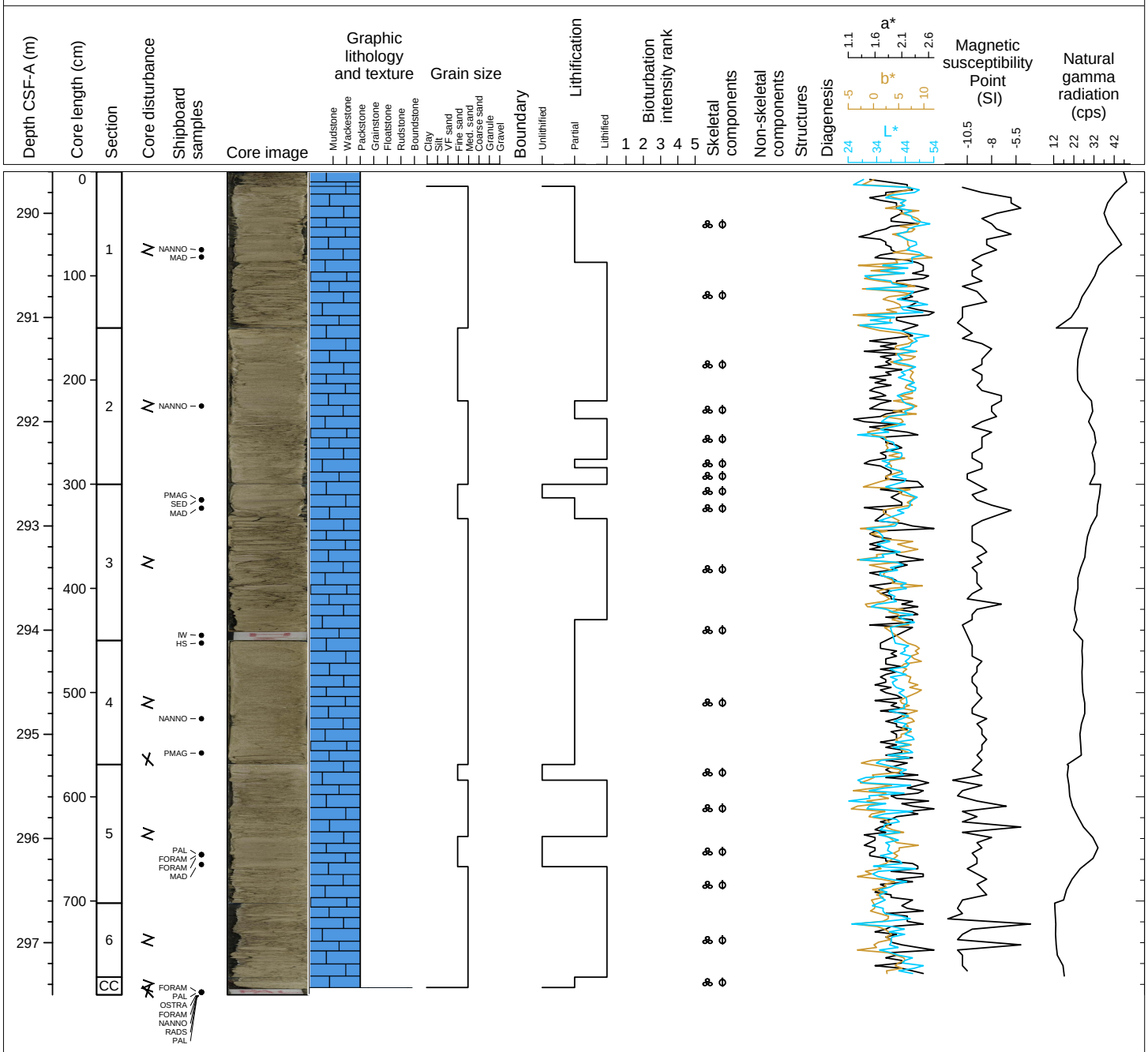
Hole 359-U1471A Core 31H, Interval 280.1-289.41 m (CSF-A)

Main lithology: Interlayered partially lithified and lithified planktic foraminifera-rich PACKSTONE. Fine- to medium-grained. Planktic foraminifera are abundant and celestite is present. Minor: None. Remarks: None.



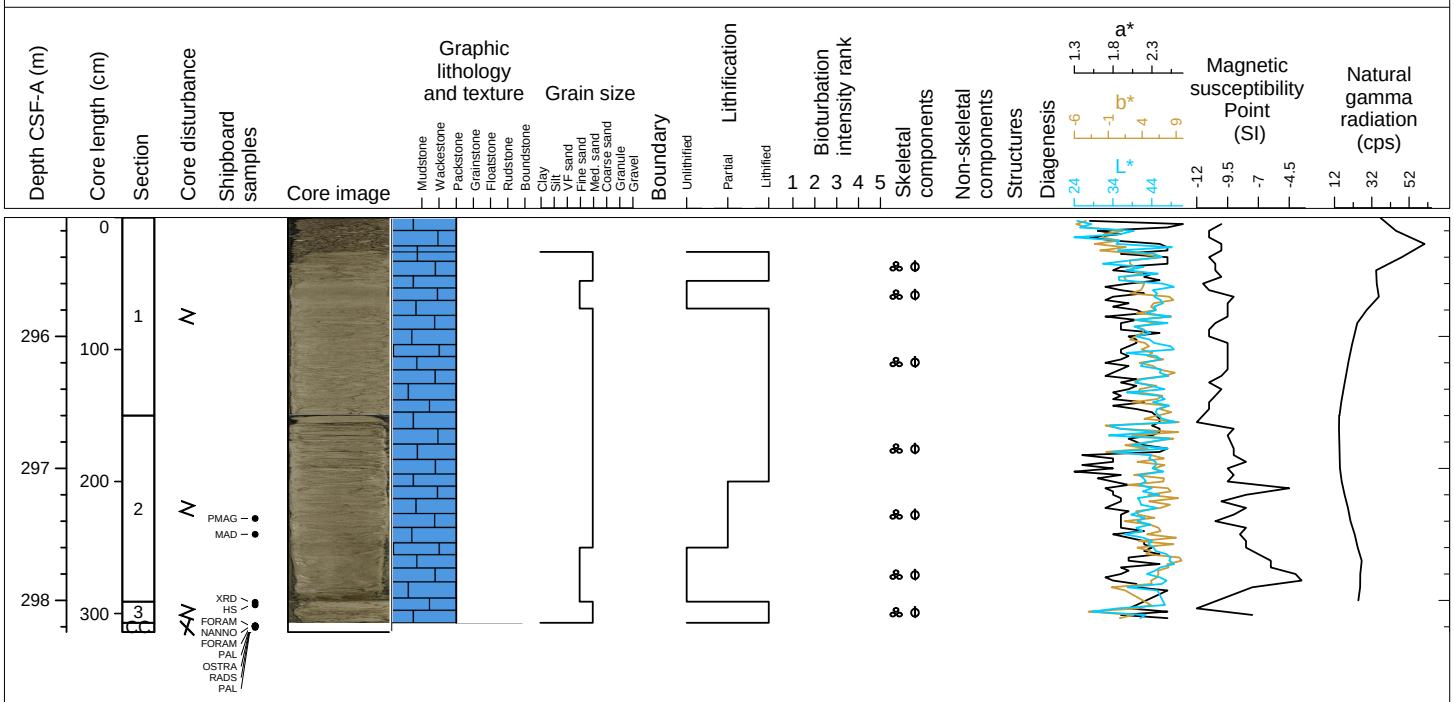
Hole 359-U1471A Core 32H, Interval 289.6-297.5 m (CSF-A)

Main lithology: Interlayered unlithified, partially lithified and lithified planktic foraminifera-rich PACKSTONE. Fine- to medium-grained. Planktic foraminifera are abundant. Minor: None. Remarks: None.



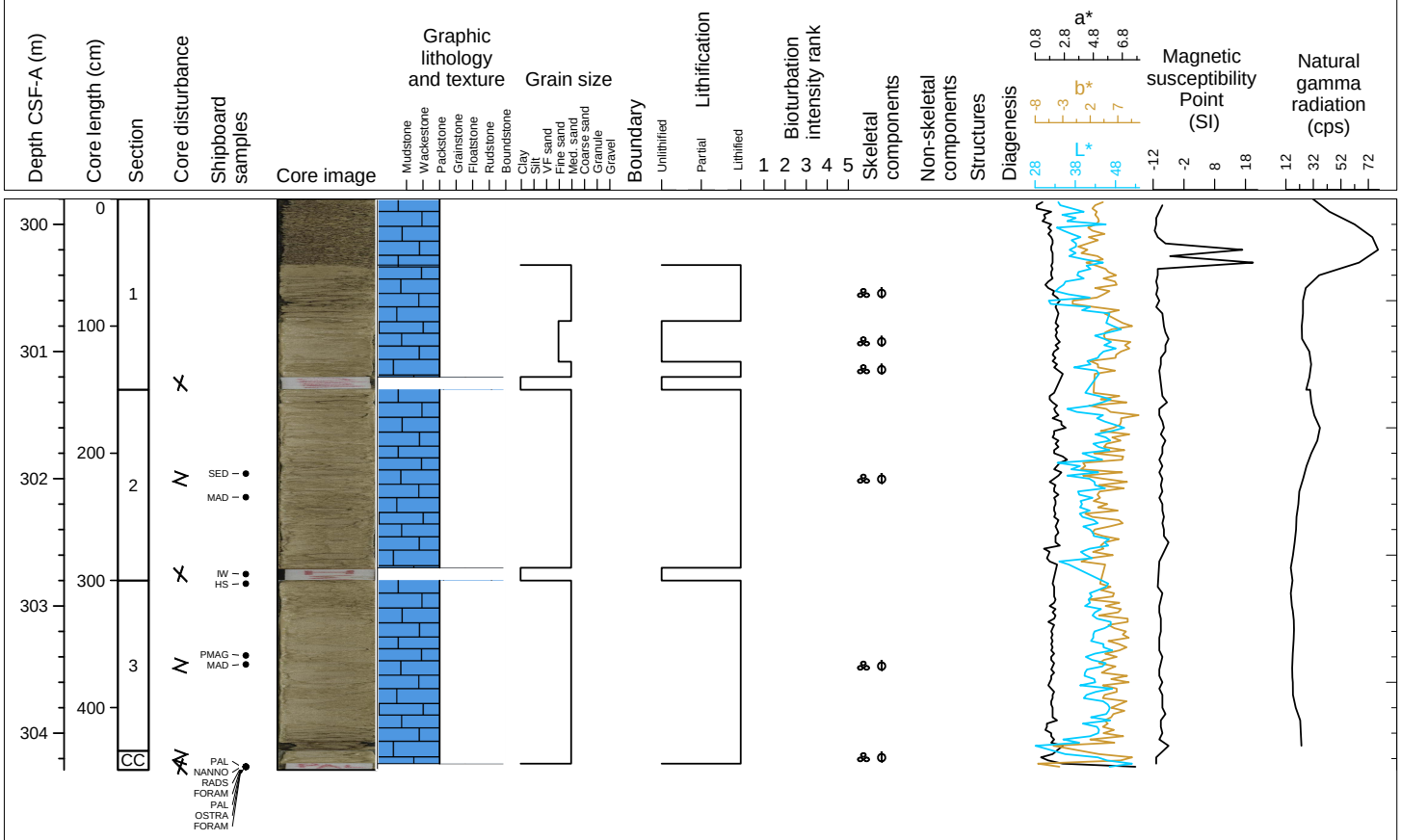
Hole 359-U1471A Core 33F, Interval 295.1-298.24 m (CSF-A)

Main lithology: Interlayered unlithified, partially lithified and lithified planktic foraminifera-rich PACKSTONE, light gray to light brownish gray. Fine- to medium-grained. Planktic foraminifera are abundant and benthic foraminifera are present. Minor: None. Remarks: None.



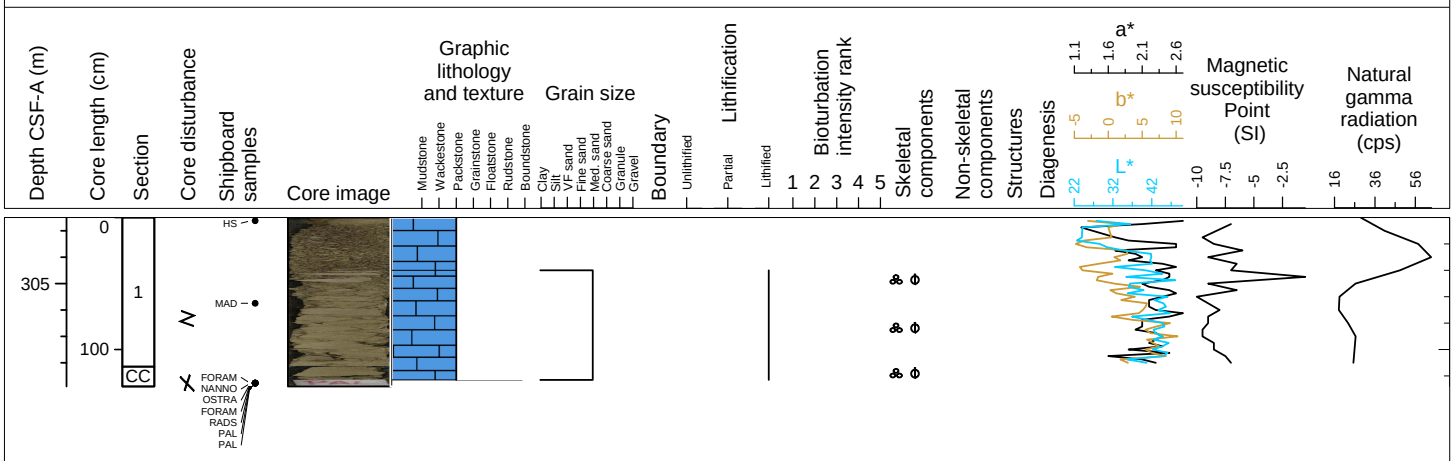
Hole 359-U1471A Core 34F, Interval 299.8-304.29 m (CSF-A)

Main lithology: Lithified and lithified planktic foraminifera-rich PACKSTONE. Fine- to medium-grained, light gray. Planktic foraminifera are abundant and benthic foraminifera are present. Minor: None. Remarks: None.



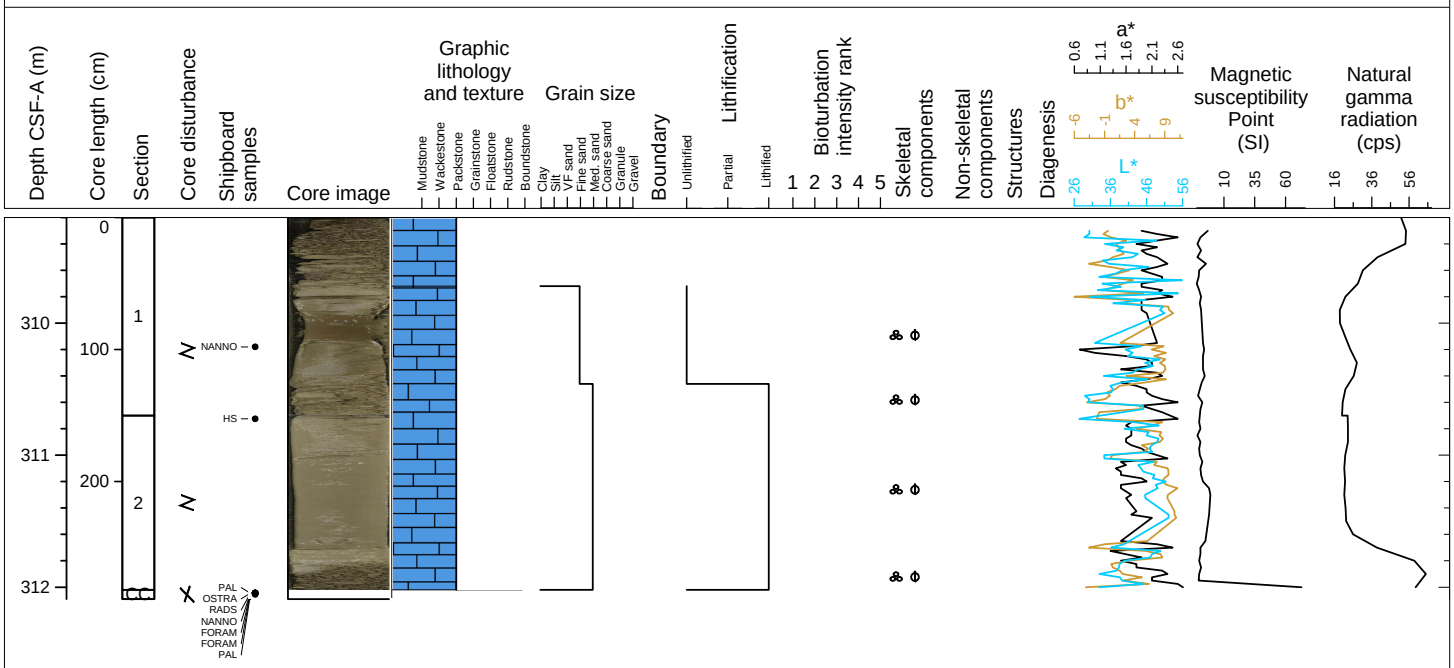
Hole 359-U1471A Core 35F, Interval 304.5-305.78 m (CSF-A)

Main lithology: Lithified and lithified planktic foraminifera-rich PACKSTONE. Fine- to medium-grained, light gray. Planktic foraminifera are abundant and planktic foraminifera are present. Minor: None. Remarks: None.



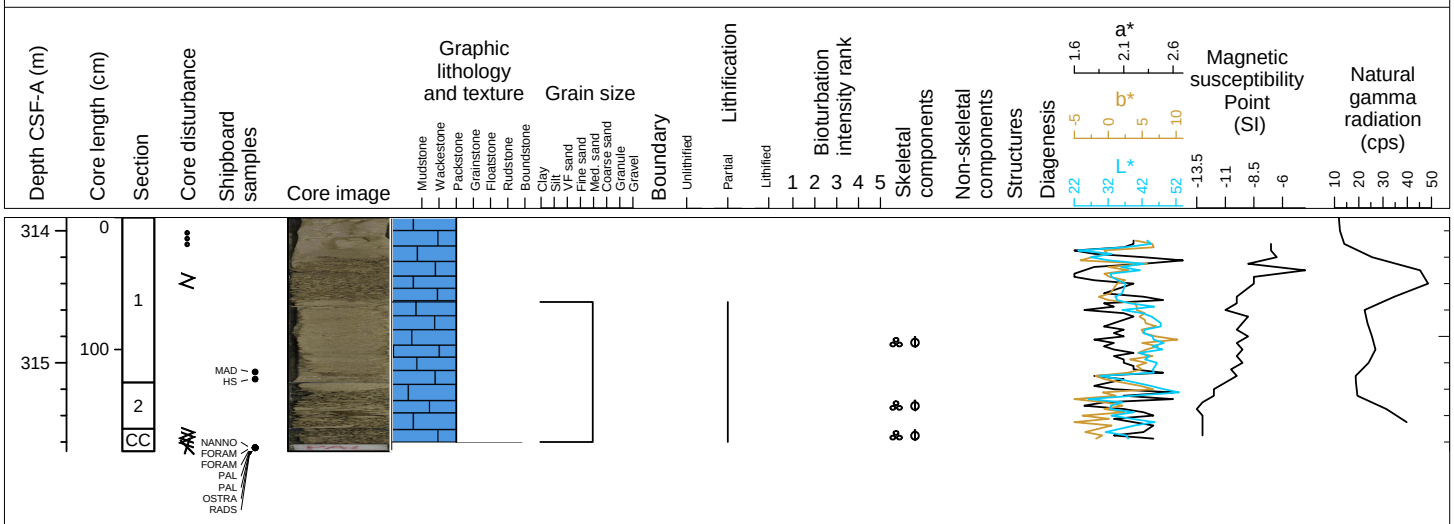
Hole 359-U1471A Core 36F, Interval 309.2-312.09 m (CSF-A)

Main lithology: Interlayered unlithified, partially lithified and lithified planktic foraminifera-rich PACKSTONE. Fine- to medium-grained, light gray. Planktic foraminifera are abundant are benthic foraminifera are present. Minor: None. Remarks: None.



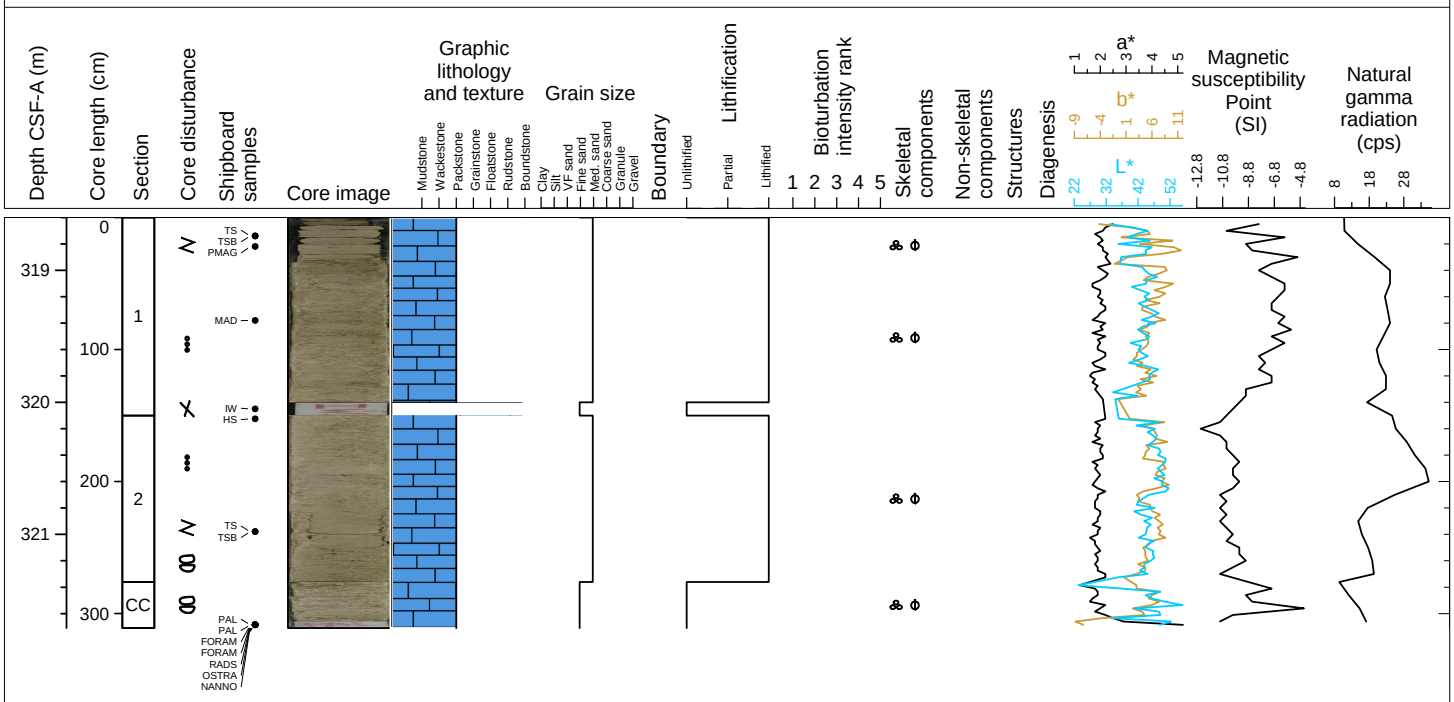
Hole 359-U1471A Core 37F, Interval 313.9-315.67 m (CSF-A)

Main lithology: Partially lithified planktic foraminifera-rich PACKSTONE. Medium-grained, light brownish gray. Planktic foraminifera are abundant and benthic foraminifera are present. Minor: None. Remarks: Strongly fragmented.



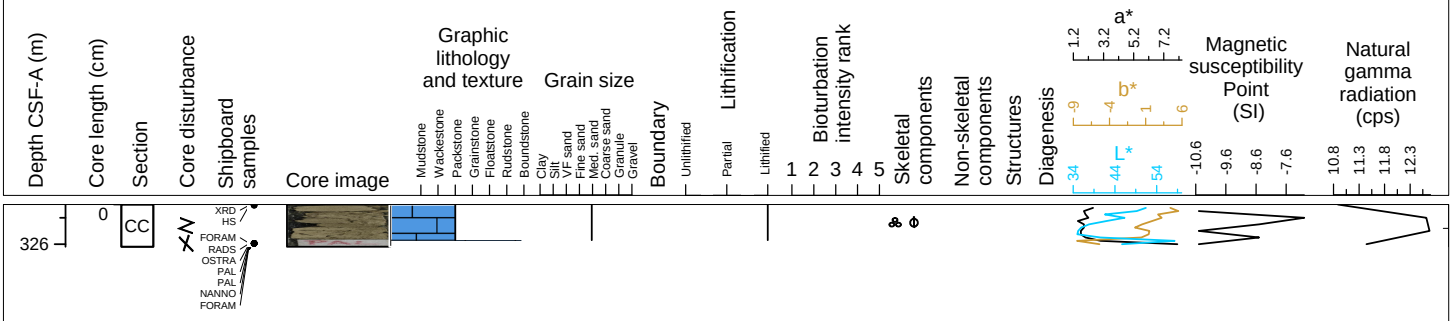
Hole 359-U1471A Core 38X, Interval 318.6-321.71 m (CSF-A)

Main lithology: Lithified planktic foraminifera-rich PACKSTONE. Medium-grained, light gray. Planktic foraminifera are abundant and benthic foraminifera are present. Minor: None. Remarks: Strongly fragmented.



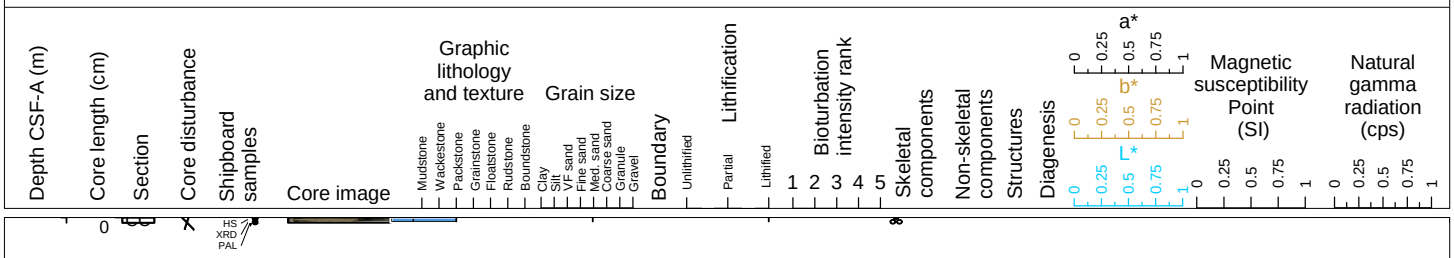
Hole 359-U1471A Core 39X, Interval 325.7-326.02 m (CSF-A)

Main lithology: Lithified planktic foraminifera-rich PACKSTONE. Medium-grained, light gray. Planktic foraminifera are abundant and benthic foraminifera are present. Minor: None. Remarks: None



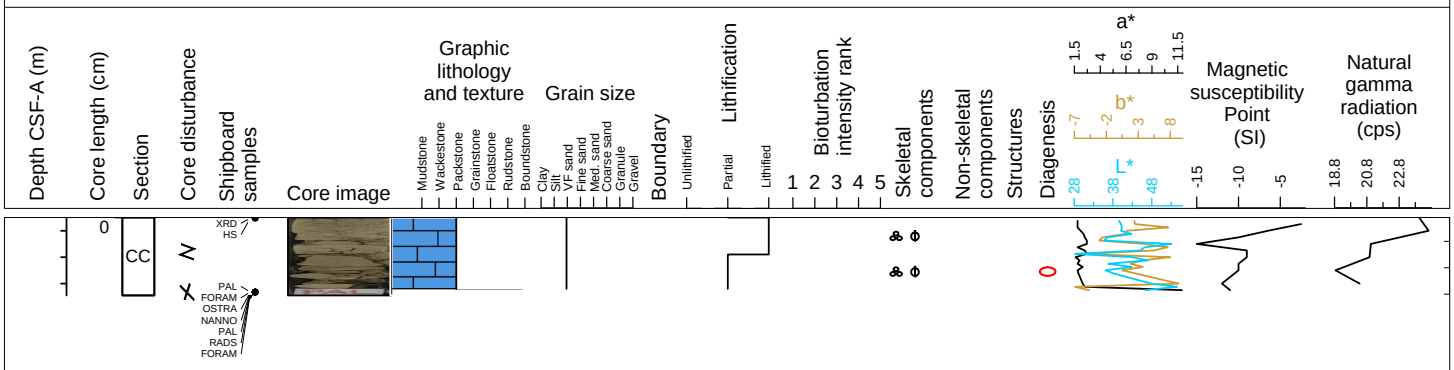
Hole 359-U1471A Core 40X, Interval 335.4-335.44 m (CSF-A)

Main lithology: Lithified planktic foraminifera-rich PACKSTONE. Medium-grained, pale yellow. Planktic foraminifera are abundant and benthic foraminifera are present. Minor: None. Remarks: None



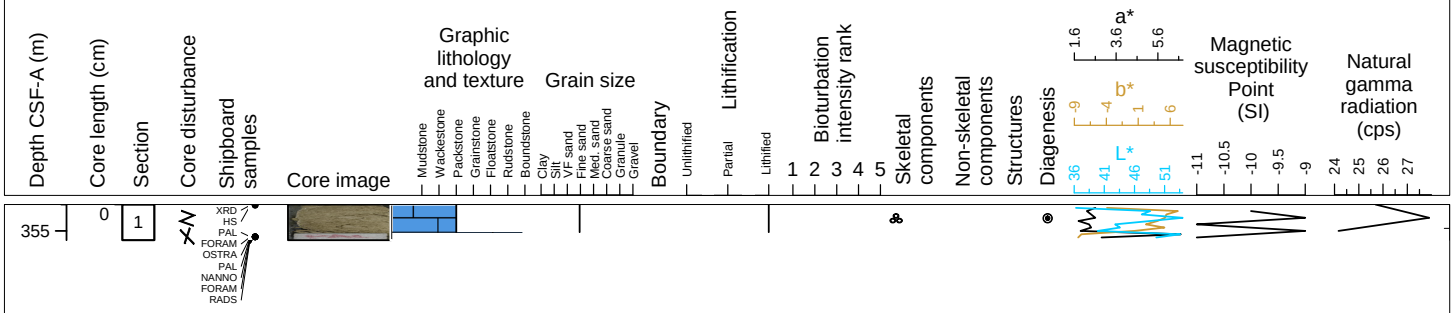
Hole 359-U1471A Core 41X, Interval 345.1-345.69 m (CSF-A)

Main lithology: Lithified and partially lithified planktic foraminifera-rich PACKSTONE. Fine-grained, pale yellow. Planktic foraminifera are abundant. Rare chert. Moldic porosity. Minor: None. Remarks: None.



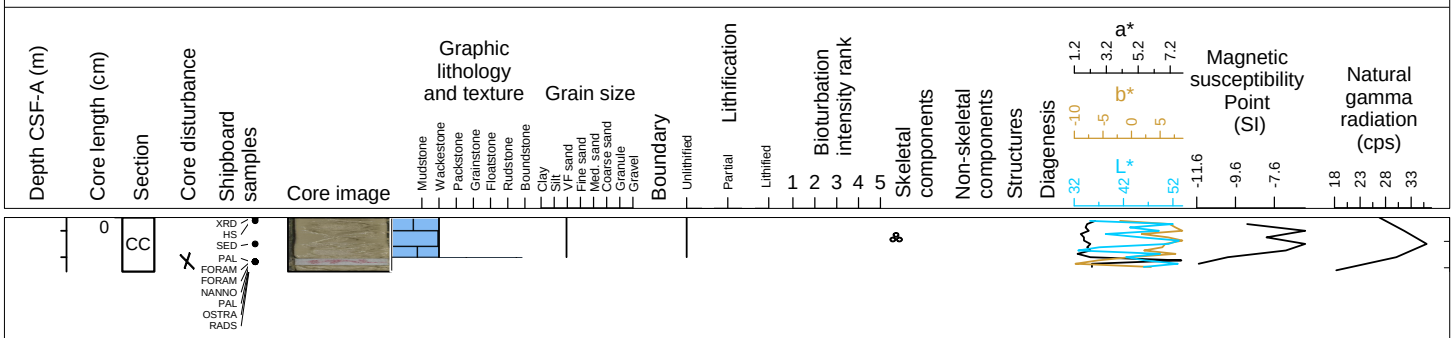
Hole 359-U1471A Core 42X, Interval 354.8-355.07 m (CSF-A)

Main lithology: Lithified planktic foraminifera-rich PACKSTONE. Fine-grained, light gray. Planktic foraminifera are abundant. Minor: None. Remarks: None.



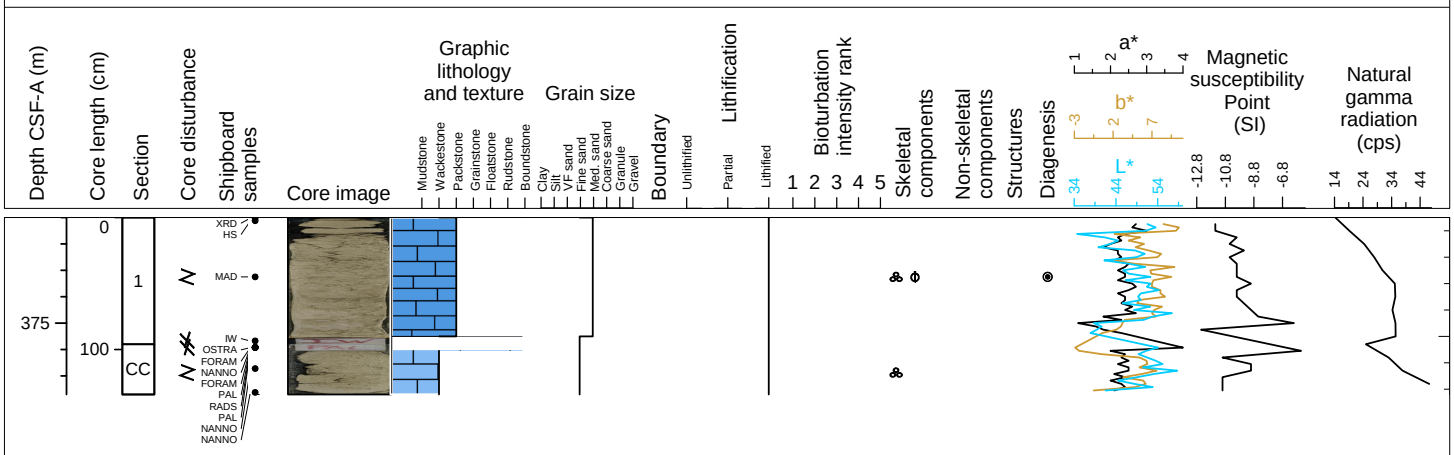
Hole 359-U1471A Core 43X, Interval 364.5-364.91 m (CSF-A)

Main lithology: Unlithified planktic foraminifera-rich PACKSTONE. Fine-grained, light gray. Planktic foraminifera are abundant and benthic foraminifera are rare.
Minor: None. Remarks: None.



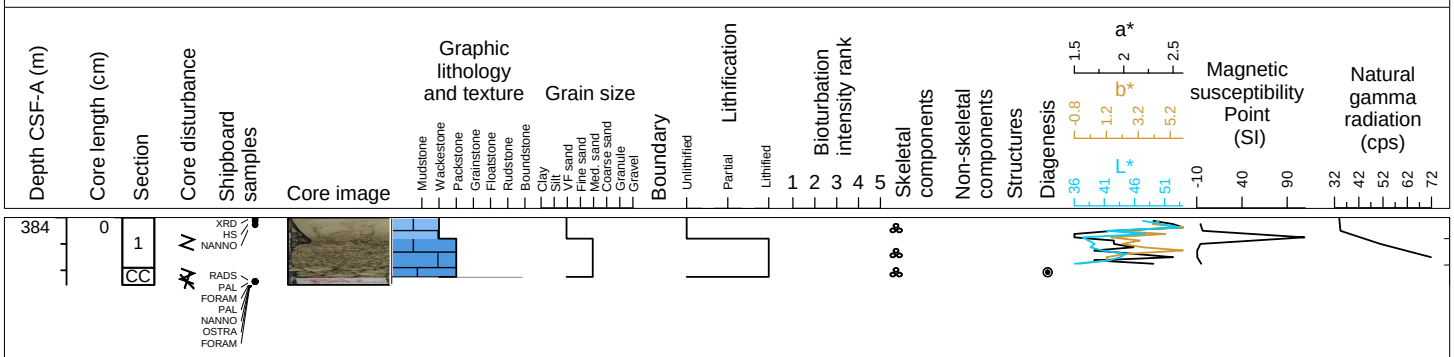
Hole 359-U1471A Core 44X, Interval 374.2-375.54 m (CSF-A)

Main lithology: Lithified planktic foraminifera-rich PACKSTONE. Fine- to medium-grained, pale yellow. Planktic foraminifera are abundant and benthic foraminifera are rare. Minor: None. Remarks: None.



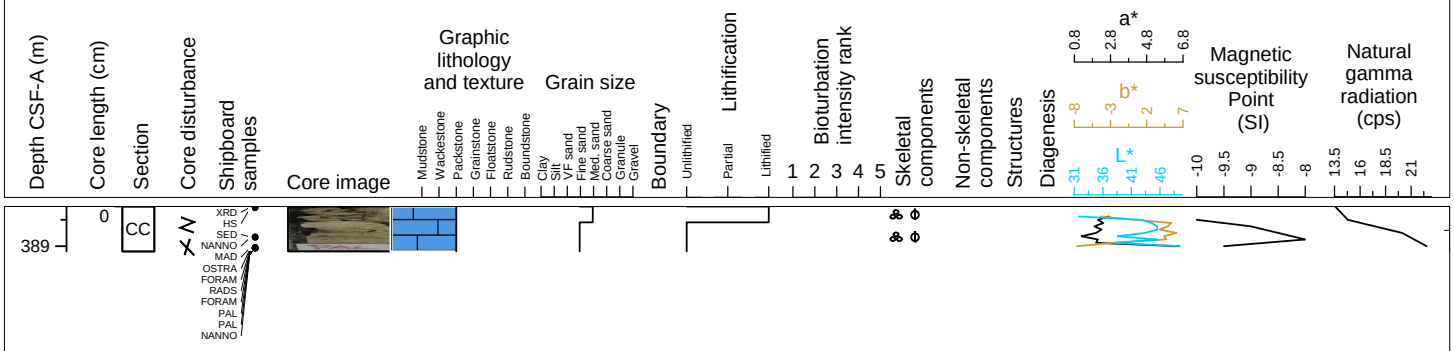
Hole 359-U1471A Core 45F, Interval 384.0-384.51 m (CSF-A)

Main lithology: Unlithified and lithified planktic foraminifera-rich PACKSTONE. Fine- to medium-grained, pale yellow. Planktic foraminifera are abundant and benthic foraminifera are rare. Moldic porosity. Minor: None. Remarks: Strongly fragmented.



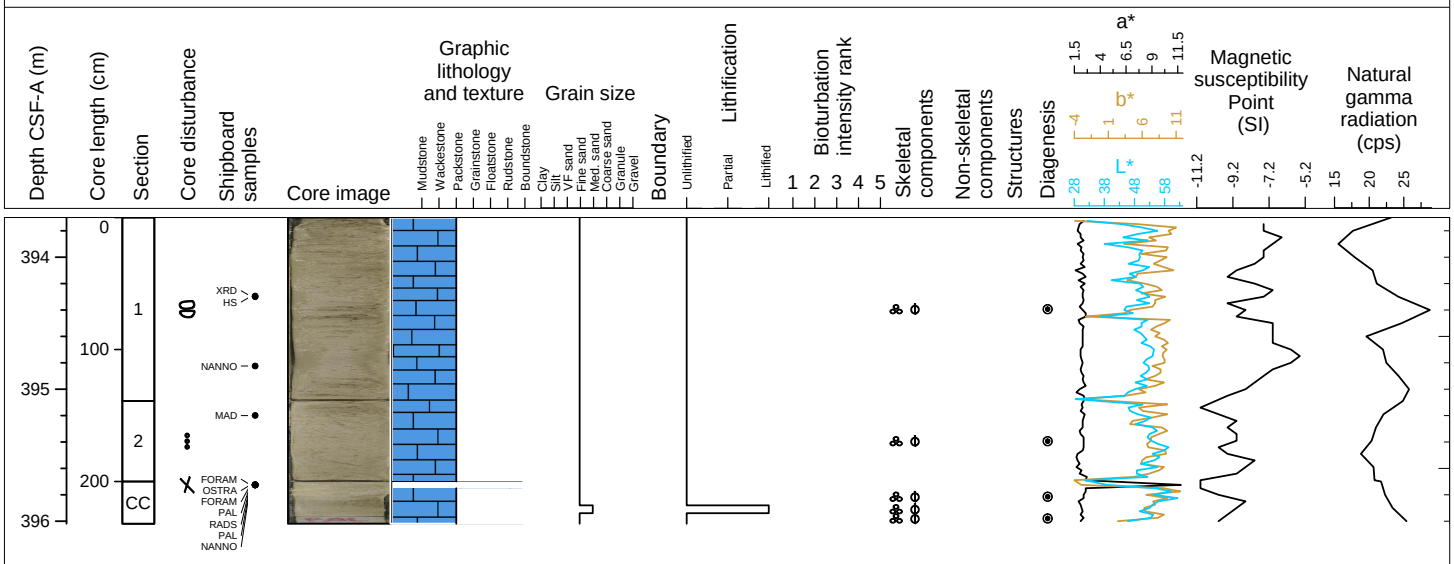
Hole 359-U1471A Core 46X, Interval 388.7-389.04 m (CSF-A)

Main lithology: Unlithified and lithified planktic foraminifera-rich PACKSTONE. Fine- to medium-grained, light gray. Planktic foraminifera are abundant and benthic foraminifera are present. Moldic porosity. Minor: None. Remarks: None.



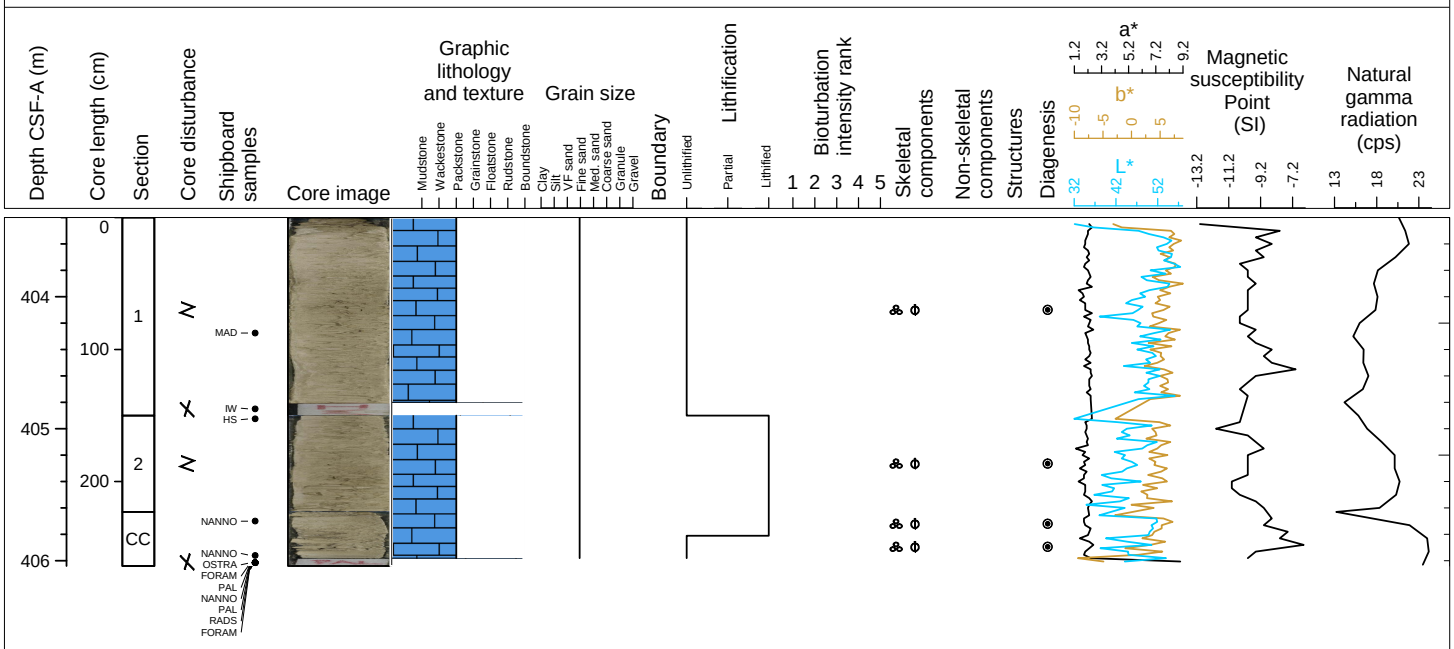
Hole 359-U1471A Core 47X, Interval 393.7-396.02 m (CSF-A)

Main lithology: Unlithified to lithified planktic foraminifera-rich PACKSTONE. Fine- to medium-grained, light gray. Planktic foraminifera are abundant and benthic foraminifera are present. Moldic porosity. Minor: None. Remarks: None.



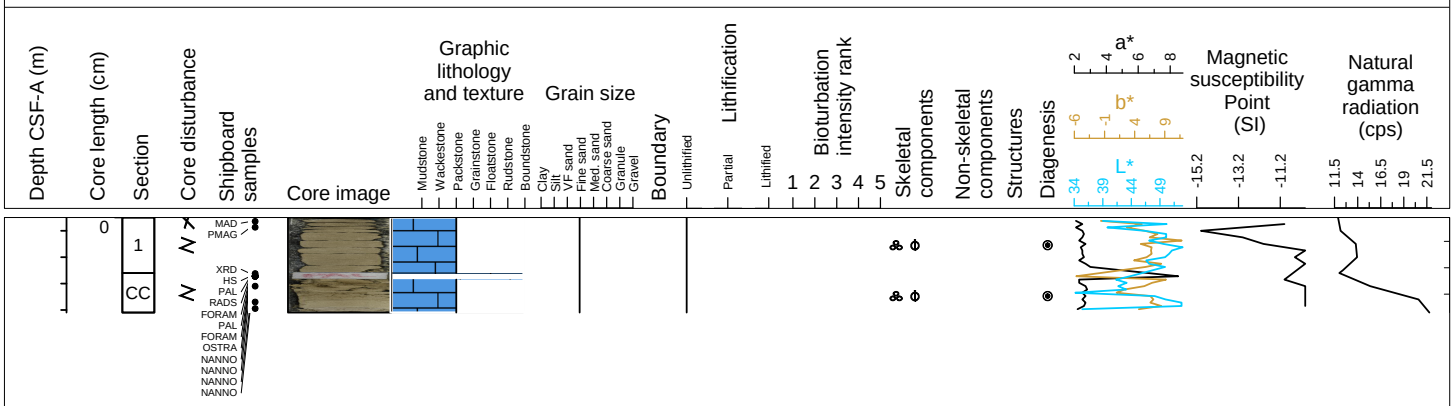
Hole 359-U1471A Core 48X, Interval 403.4-406.04 m (CSF-A)

Main lithology: Lithified planktic foraminifera-rich PACKSTONE. Medium-grained, pale yellow. Planktic foraminifera are abundant and benthic foraminifera are present. Moldic porosity. Minor: None. Remarks: Drilling cakes at the case of core catcher.



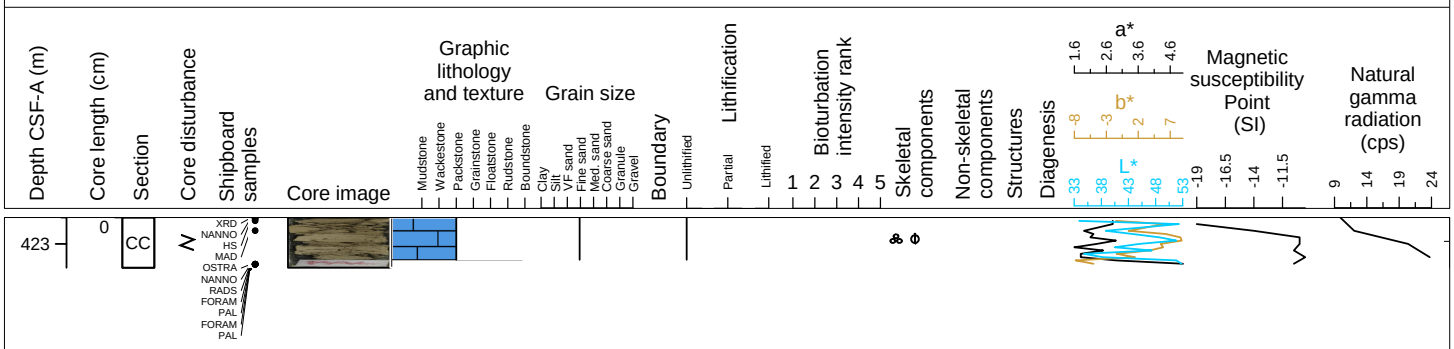
Hole 359-U1471A Core 49X, Interval 413.1-413.82 m (CSF-A)

Main lithology: Lithified planktic foraminifera-rich PACKSTONE. Medium-grained, light gray to light yellowish brown. Planktic foraminifera are abundant, bioclasts are common and benthic foraminifera are rare. Moldic porosity. Minor: None. Remarks: None.



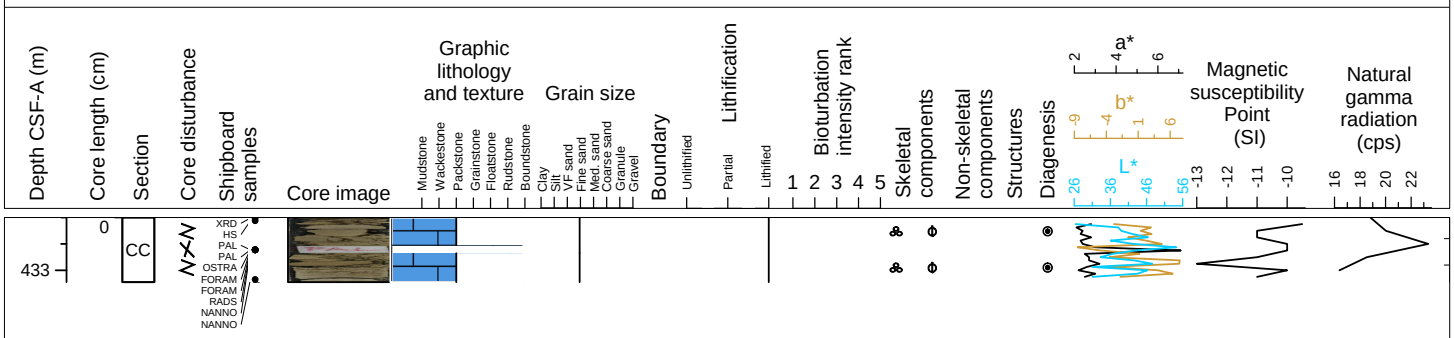
Hole 359-U1471A Core 50X, Interval 422.8-423.18 m (CSF-A)

Main lithology: Lithified planktic foraminifera-rich PACKSTONE. Medium-grained, light gray to light yellowish brown. Planktic foraminifera are abundant, bioclasts are common and benthic foraminifera are rare. Moldic porosity. Minor: None. Remarks: None.



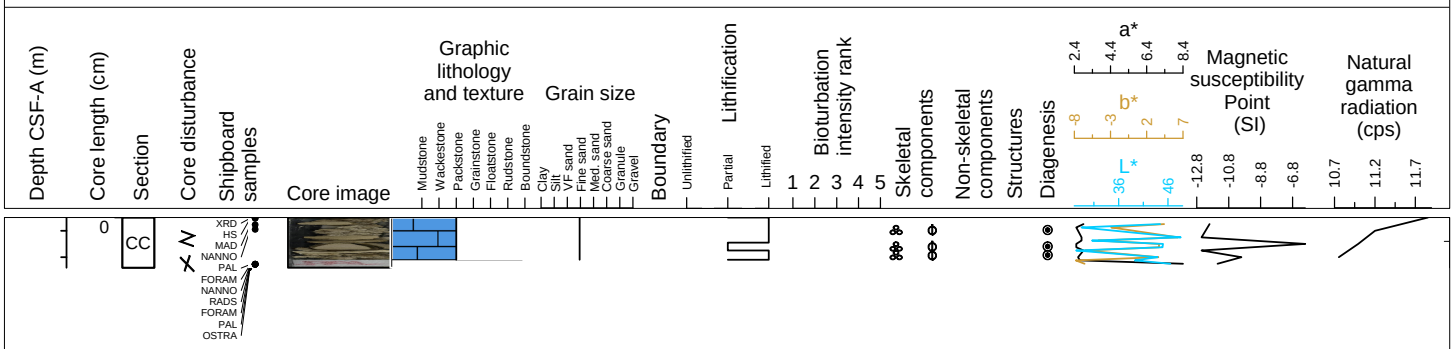
Hole 359-U1471A Core 51X, Interval 432.6-433.09 m (CSF-A)

Main lithology: Lithified planktic foraminifera-rich PACKSTONE. Medium-grained, light gray to light brownish gray. Planktic foraminifera are abundant, bioclasts and mollusk fragments are few. Benthic foraminifera are rare. Bioturbation is complete and often presented as darker mottle (2.5Y 7/2). Majority of components preserved as molds. Minor: None. Remarks: Disturbed core.



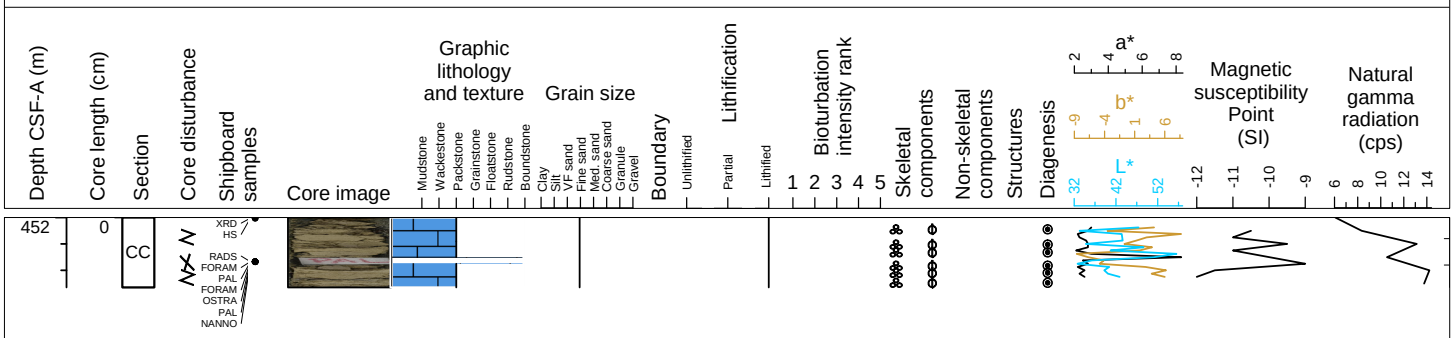
Hole 359-U1471A Core 52X, Interval 442.3-442.68 m (CSF-A)

Main lithology: Lithified planktic foraminifera-rich PACKSTONE. Medium-grained, light gray to light brownish gray. Planktic foraminifera are abundant, bioclasts and mollusk fragments are few. Benthic foraminifera are rare. Majority of components preserved as molds. Minor: Lithified fine-grained WACKESTONE.
Remarks: Core Catcher only, moderate to severe drilling disturbance.



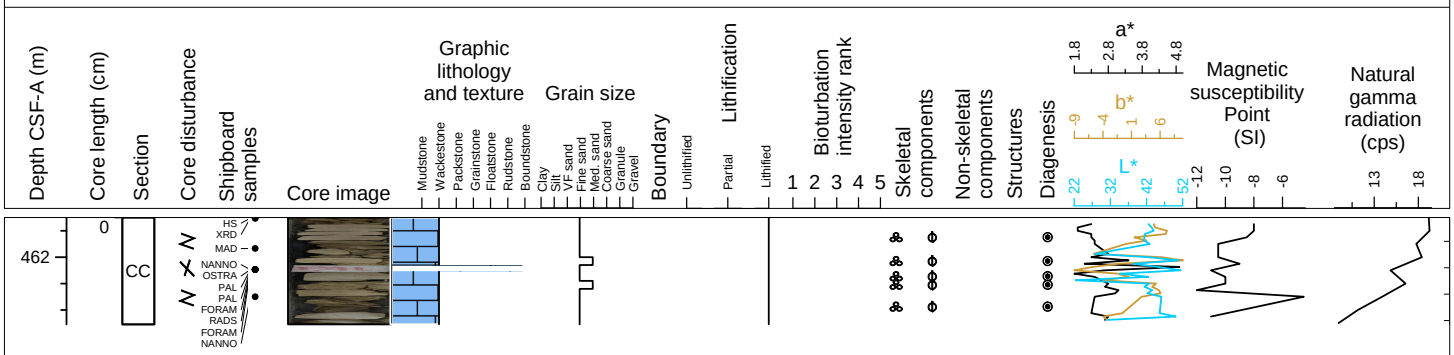
Hole 359-U1471A Core 53X, Interval 452.0-452.53 m (CSF-A)

Main lithology: Lithified planktic foraminifera-rich PACKSTONE. Medium-grained, gray to light brownish gray. Planktic foraminifera and bioclasts are abundant. Benthic foraminifera are rare. Majority of components preserved as molds. From 53X, 18 -23 cm abundant organic matter (poorly laminated). Bioturbation difficult to determine due to drilling disturbance. Minor: Lithified fine-grained WACKESTONE. Remarks: Core Catcher only, moderate to severe drilling disturbance.



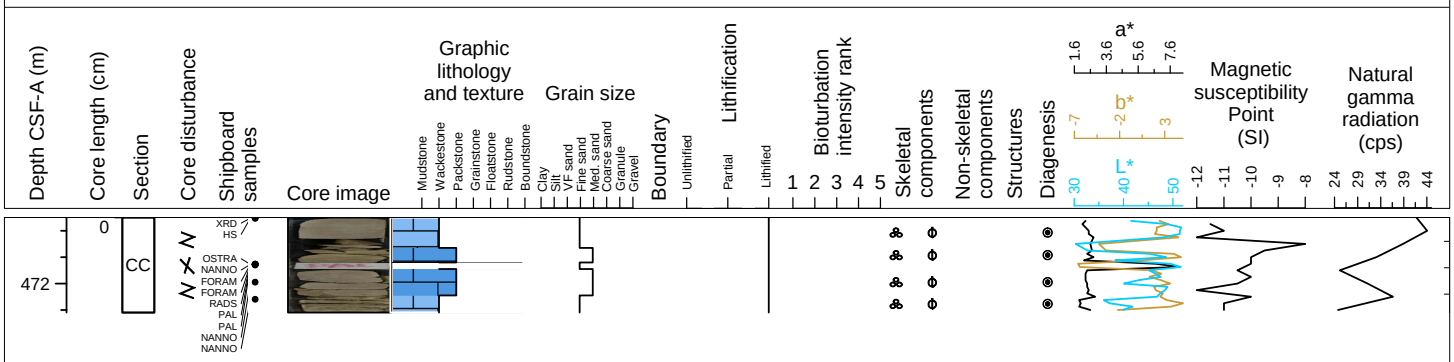
Hole 359-U1471A Core 54X, Interval 461.7-462.51 m (CSF-A)

Main lithology: Lithified planktic foraminifera-rich WACKESTONE. Fine to medium-grained, gray to light brownish gray. Planktic foraminifera and bioclasts are abundant. Benthic foraminifera are few. Majority of components preserved as molds. Bioturbation is complete. Minor: Lithified fine-grained PACKSTONE.
Remarks: Core Catcher only, moderate to severe drilling disturbance.



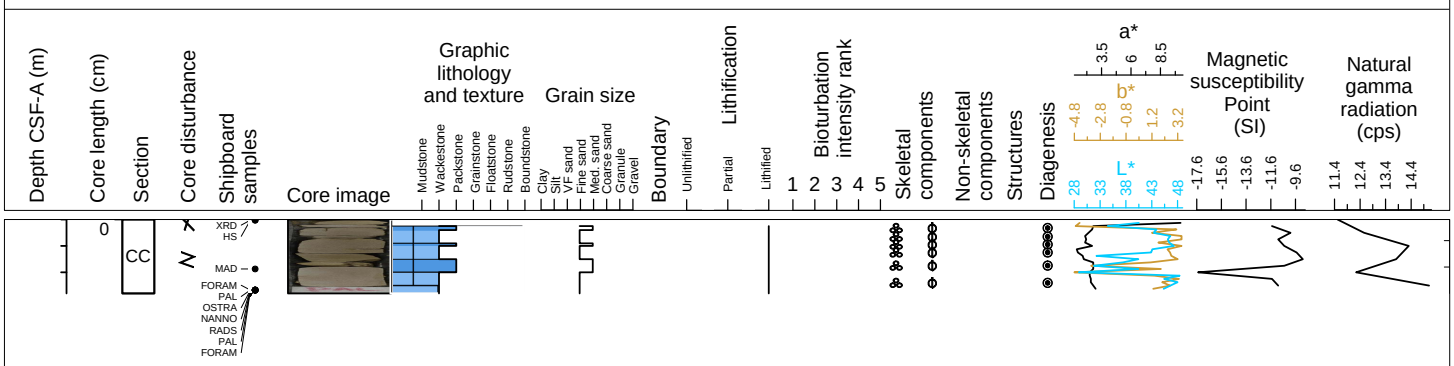
Hole 359-U1471A Core 55X, Interval 471.5-472.22 m (CSF-A)

Main lithology: Interlayered Lithified planktic foraminifera-rich PACKSTONE and WACKESTONE. Fine to medium-grained, gray to light brownish gray. Planktic foraminifera and bioclasts are abundant. Benthic foraminifera and mollusk fragments are few. Majority of components preserved as molds. Bioturbation is complete. Minor: None. Remarks: Core Catcher only, moderate to severe drilling disturbance.



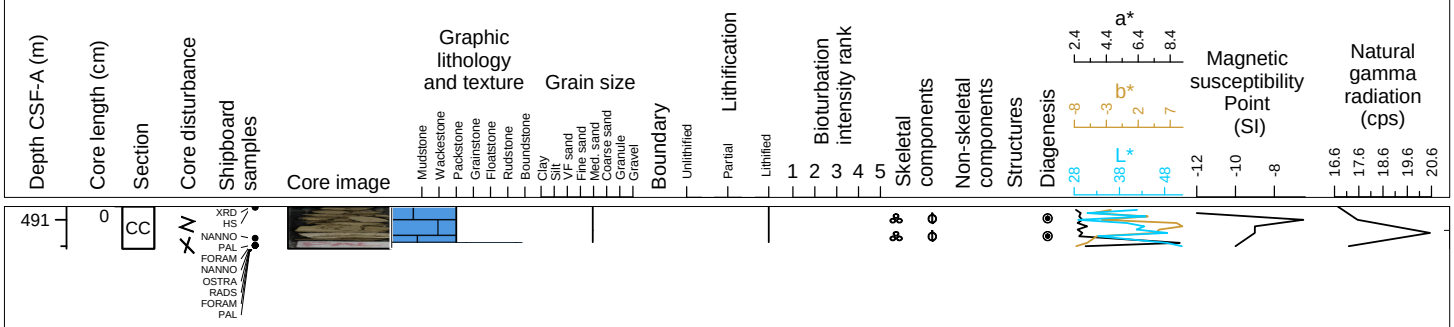
Hole 359-U1471A Core 56X, Interval 481.2-481.76 m (CSF-A)

Main lithology: Interlayered Lithified planktic foraminifera-rich PACKSTONE and WACKESTONE. Fine to medium-grained, gray to light brownish gray. Planktic foraminifera and bioclasts are abundant. Benthic foraminifera and mollusk fragments are few. Majority of components preserved as molds. Bioturbation is complete with celestite present in some burrows at 56X-CC, 26-28 cm. Minor: None Remarks: Core Catcher only, moderate to severe drilling disturbance.



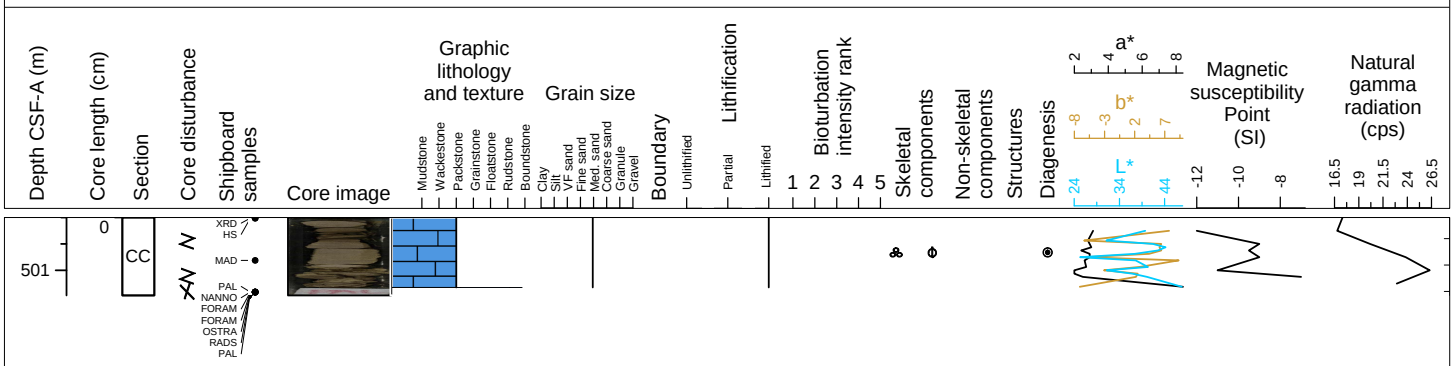
Hole 359-U1471A Core 57X, Interval 490.9-491.22 m (CSF-A)

Main lithology: Lithified planktic foraminifera-rich PACKSTONE. Fine to medium-grained, gray to light brownish gray. Planktic foraminifera and bioclasts are abundant. Benthic foraminifera and mollusk fragments are few. Majority of components preserved as molds. Bioturbation is complete. Minor: None Remarks: Core Catcher only, moderate to severe drilling disturbance.



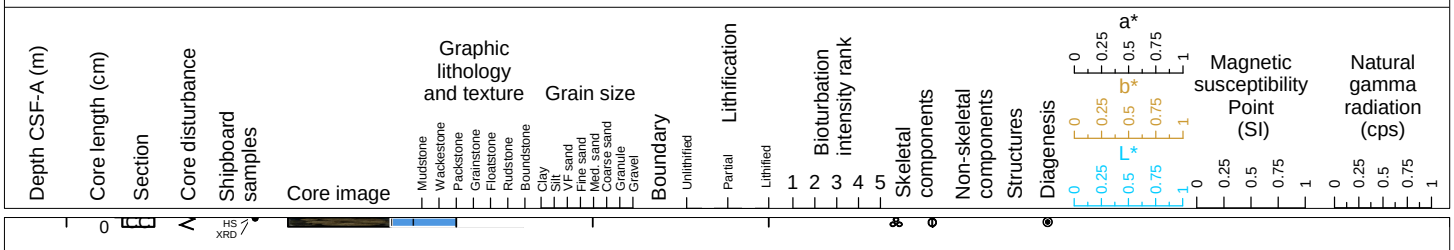
Hole 359-U1471A Core 58X, Interval 500.6-501.19 m (CSF-A)

Main lithology: Lithified planktic foraminifera-rich PACKSTONE. Fine to medium-grained, gray to light brownish gray. Planktic foraminifera are abundant. Benthic foraminifera are common, organic matter is present and mollusk fragments are few. Some of components preserved as molds. Bioturbation is complete and burrows infilled with coarser material. Minor: GRAINSTONE infill in burrows. Remarks: Core Catcher only, moderate to severe drilling disturbance.



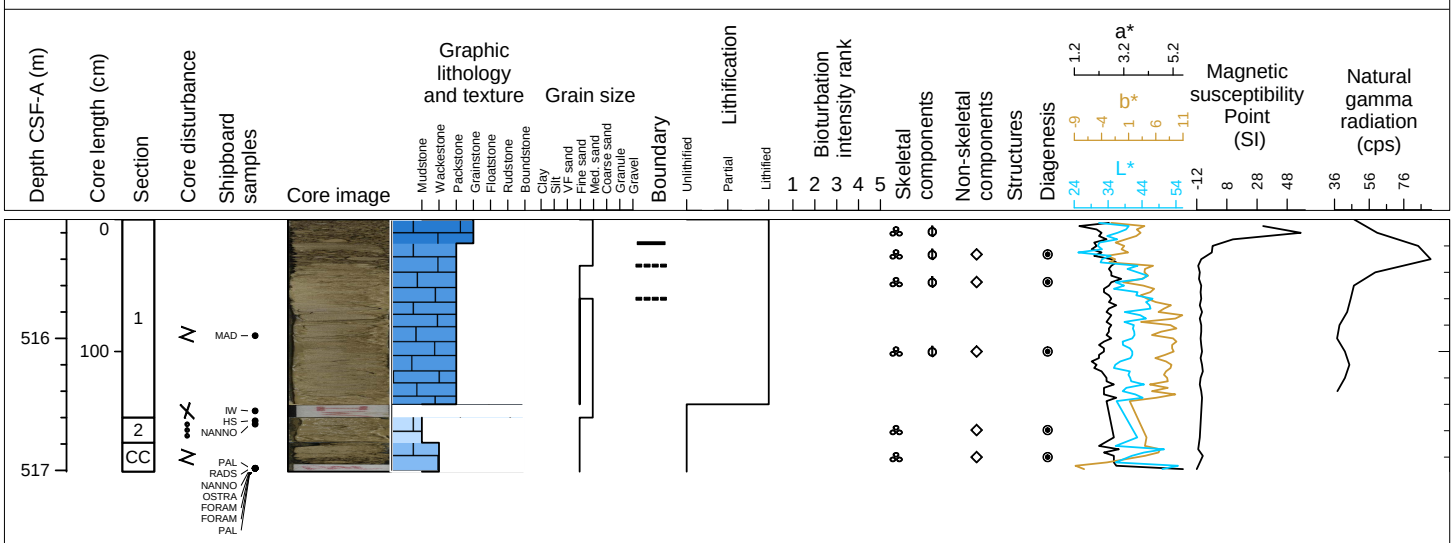
Hole 359-U1471A Core 59X, Interval 510.3-510.37 m (CSF-A)

Main lithology: Lithified planktic foraminifera-rich PACKSTONE. Medium- to coarse-grained, gray to dark gray. Planktic foraminifera are abundant. Benthic foraminifera are common, components preserved as molds. Minor: None. Remarks: Core Catcher only, moderate to severe drilling disturbance.



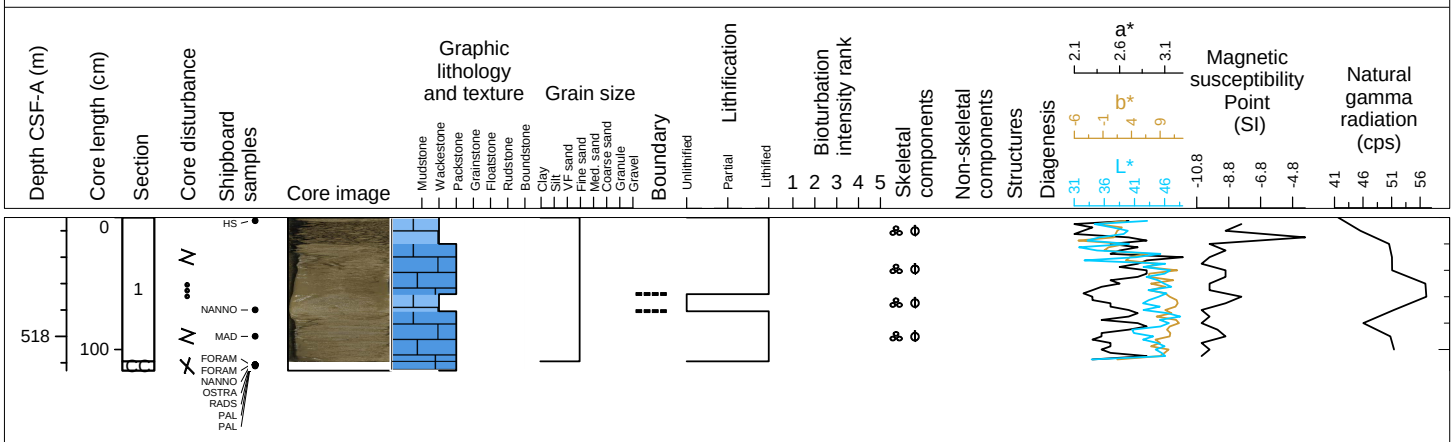
Hole 359-U1471A Core 60F, Interval 515.1-517.01 m (CSF-A)

Main lithology: Lithified planktic foraminifera-rich PACKSTONE. Fine- to medium-grained, grayish brown to light grayish brown. Planktic foraminifera are abundant, organic fragments and aggregate grains/intraclasts are present and benthic foraminifera are rare. Some components preserved as molds. Bioturbation is complete. Contacts are gradational and represent changes in color. Minor: None. Remarks: Lithified rubble cave-in for the top 25 cm, suck in for 60F2, 00 - 18 cm and CC.



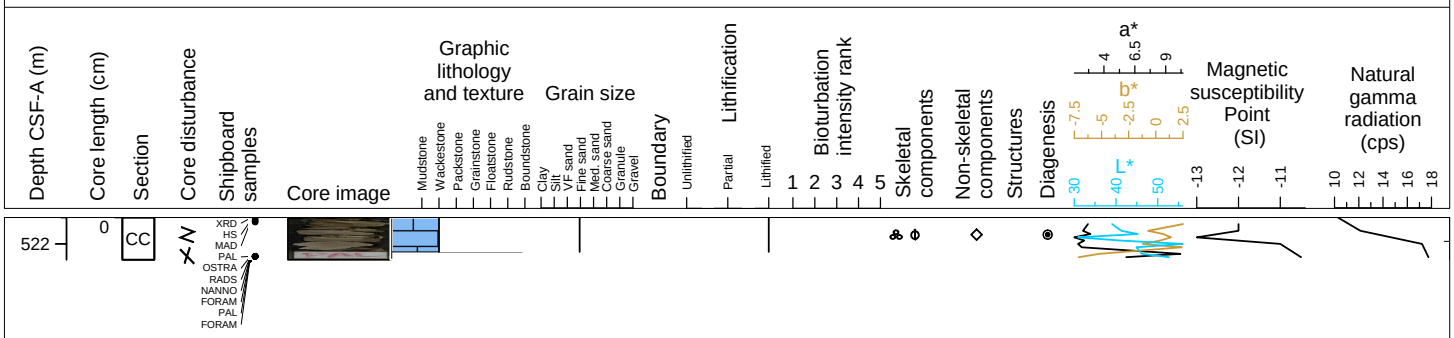
Hole 359-U1471A Core 61F, Interval 517.1-518.26 m (CSF-A)

Main lithology: Lithified planktic foraminifera-rich PACKSTONE. Fine-grained. Planktic foraminifera are abundant and benthic foraminifera and mollusk fragments are few. Bioturbation is complete. Minor: Unlithified WACKESTONE (drilling disturbance). Remarks: Lithified rubble cave-in for the top 25 cm.



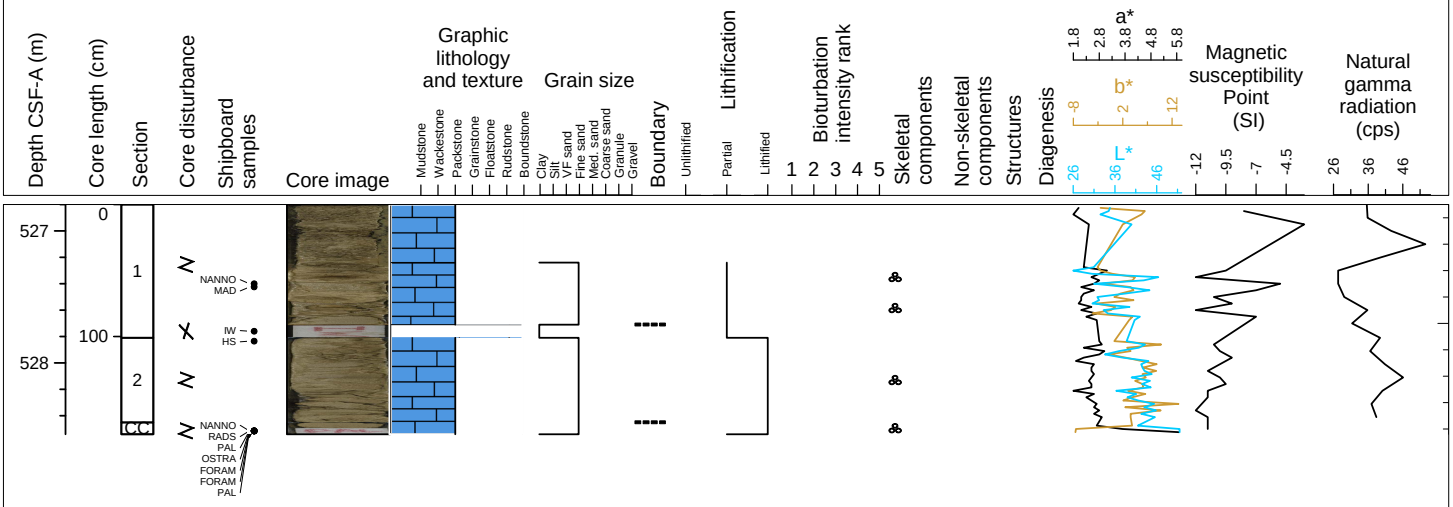
Hole 359-U1471A Core 62X, Interval 521.8-522.12 m (CSF-A)

Main lithology: Lithified to partially lithified planktic foraminifera-rich WACKESTONE. Very-fine-grained, light brownish gray to brownish gray. Planktic foraminifera are abundant and benthic foraminifera and bioclasts are few. Some components preserved as molds. Bioturbation is complete. Minor: None.
Remarks: Core Catcher only, moderate to severe drilling disturbance.



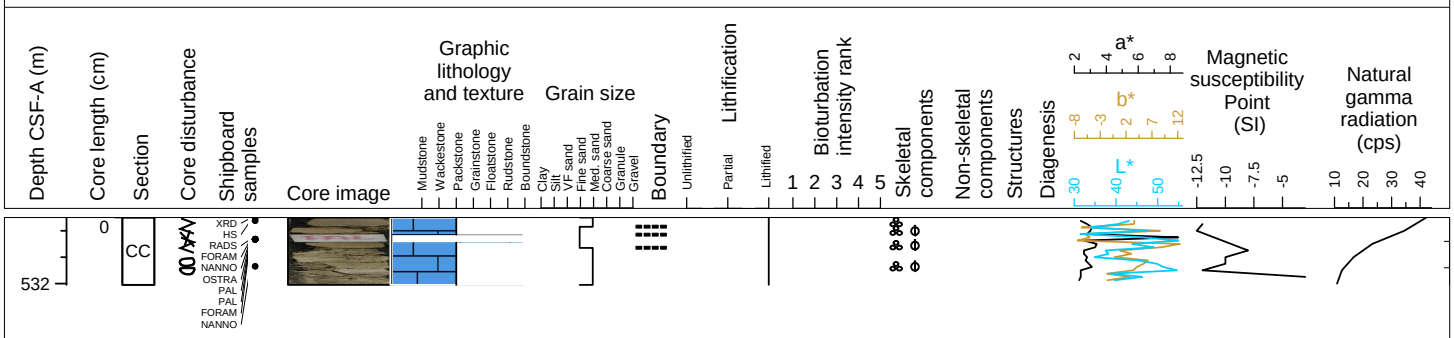
Hole 359-U1471A Core 63F, Interval 526.8-528.54 m (CSF-A)

Main lithology: Lithified to partially lithified planktic foraminifera-rich PACKSTONE. Fine-grained, light brownish gray to brownish gray. Planktic foraminifera are abundant and benthic foraminifera are few. Some components preserved as molds. Bioturbation is difficult to determine due to drilling disturbance. Minor: None.
Remarks: Moderate to severe drilling disturbance.



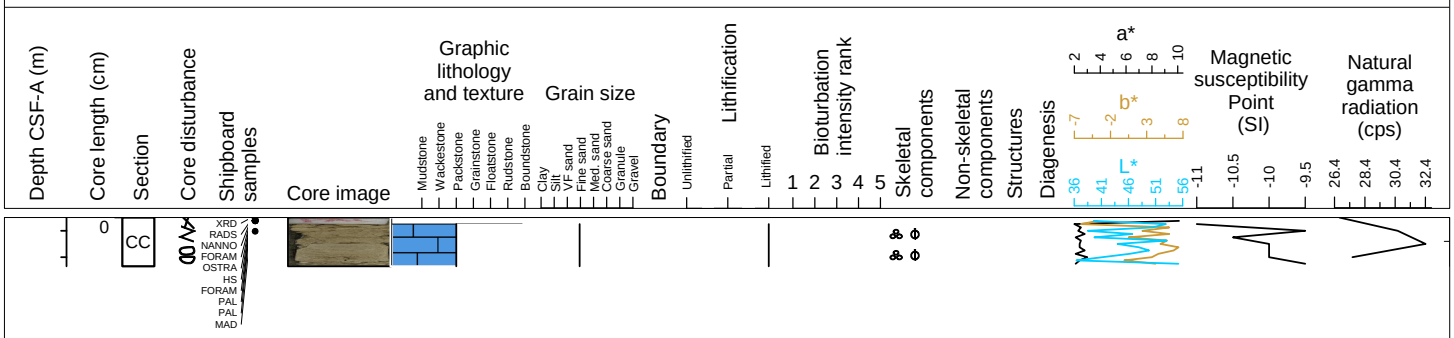
Hole 359-U1471A Core 64X, Interval 531.5-532.01 m (CSF-A)

Main lithology: Lithified to partially lithified planktic foraminifera-rich PACKSTONE. Fine- to medium-grained, light brownish gray to brownish gray. Planktic foraminifera are abundant and benthic foraminifera are few. Some components preserved as molds. Bioturbation is difficult to determine due to drilling disturbance. Minor: None. Remarks: Core Catcher only, moderate to severe drilling disturbance.



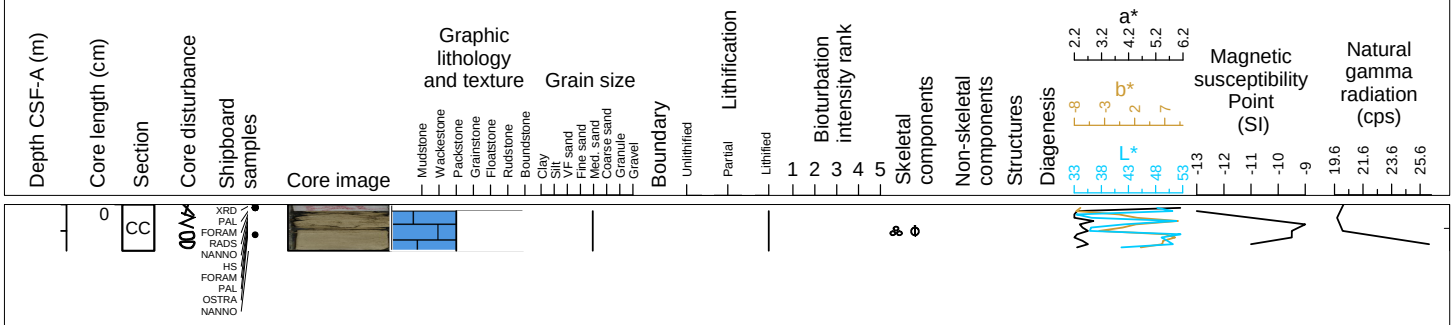
Hole 359-U1471A Core 65X, Interval 539.5-539.87 m (CSF-A)

Main lithology: Lithified to partially lithified planktic foraminifera-rich PACKSTONE. Fine- to medium-grained, light brownish gray to brownish gray. Planktic foraminifera are abundant and benthic foraminifera are few. Some components preserved as molds. Bioturbation is difficult to determine due to drilling disturbance. Minor: None. Remarks: Core Catcher only, moderate to severe drilling disturbance.



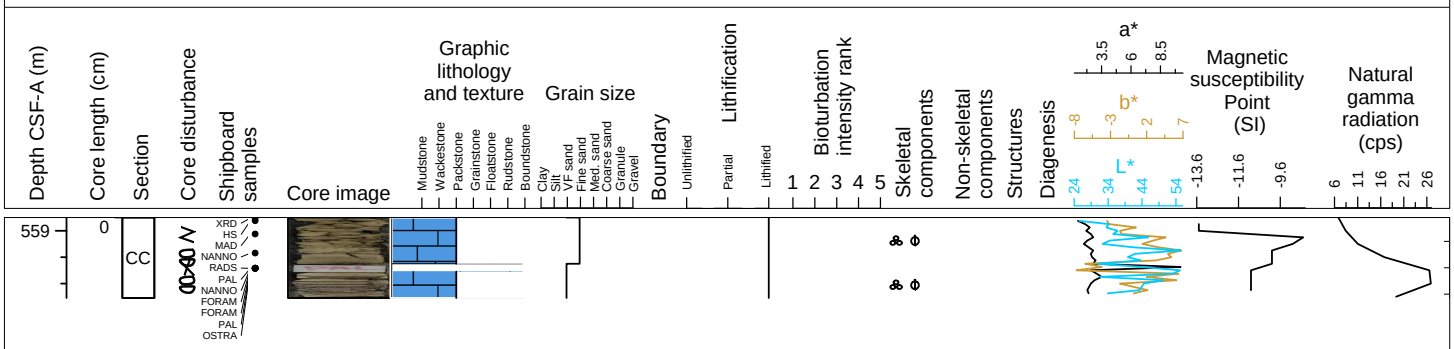
Hole 359-U1471A Core 66X, Interval 549.2-549.55 m (CSF-A)

Main lithology: Lithified planktic foraminifera-rich mud-lean PACKSTONE. Medium-grained light brownish gray. Planktic foraminifera are abundant and benthic foraminifera few. Minor: None. Remarks: Core Catcher only, moderate to severe drilling disturbance.



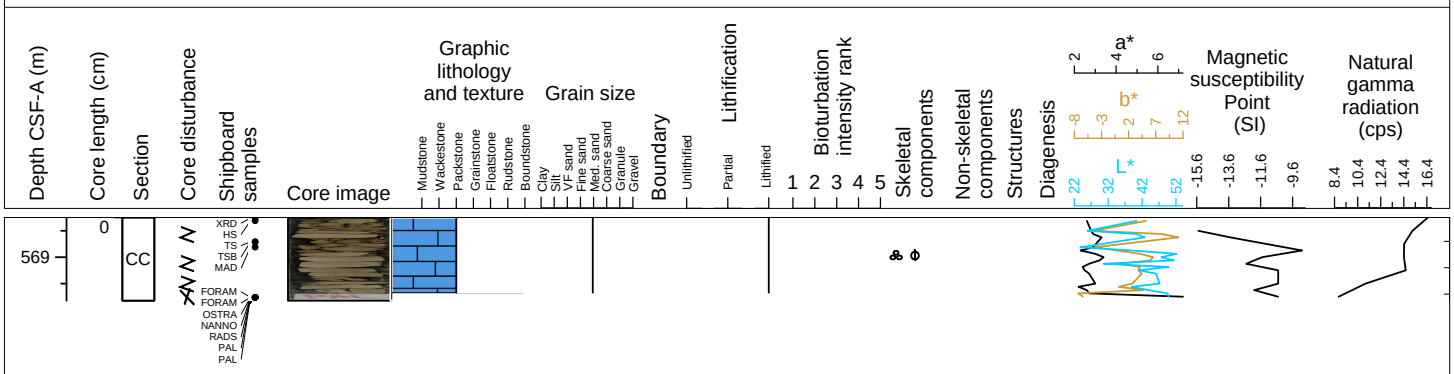
Hole 359-U1471A Core 67X, Interval 558.9-559.51 m (CSF-A)

Main lithology: Lithified planktic foraminifera-rich mud-lean PACKSTONE. Fine- to medium-grained light brownish gray. Planktic foraminifera are abundant and benthic foraminifera few. Minor: None. Remarks: Core Catcher only, moderate to severe drilling disturbance.



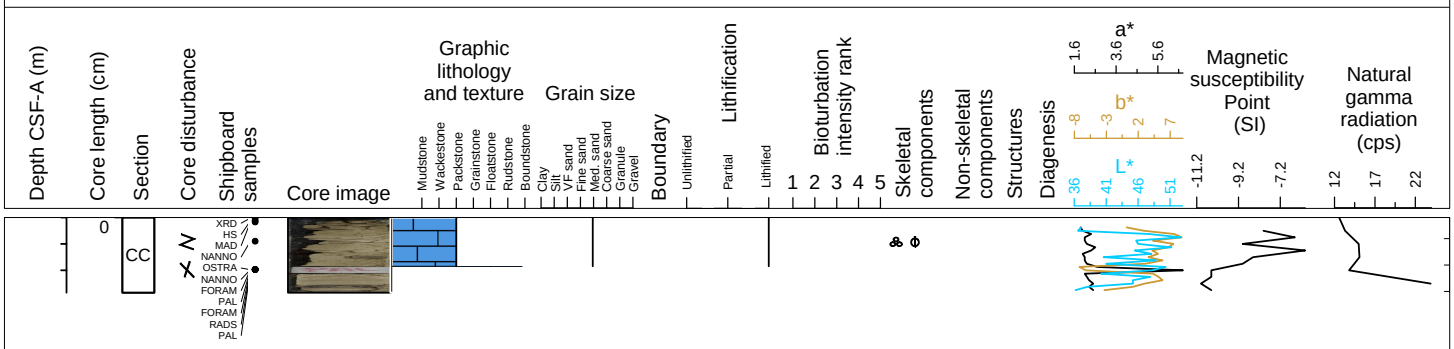
Hole 359-U1471A Core 68X, Interval 568.7-569.33 m (CSF-A)

Main lithology: Lithified planktic foraminifera-rich mud-lean PACKSTONE. Medium-grained light brownish gray. Planktic foraminifera are abundant and benthic foraminifera few. Minor: None. Remarks: Core Catcher only, moderate to severe drilling disturbance.



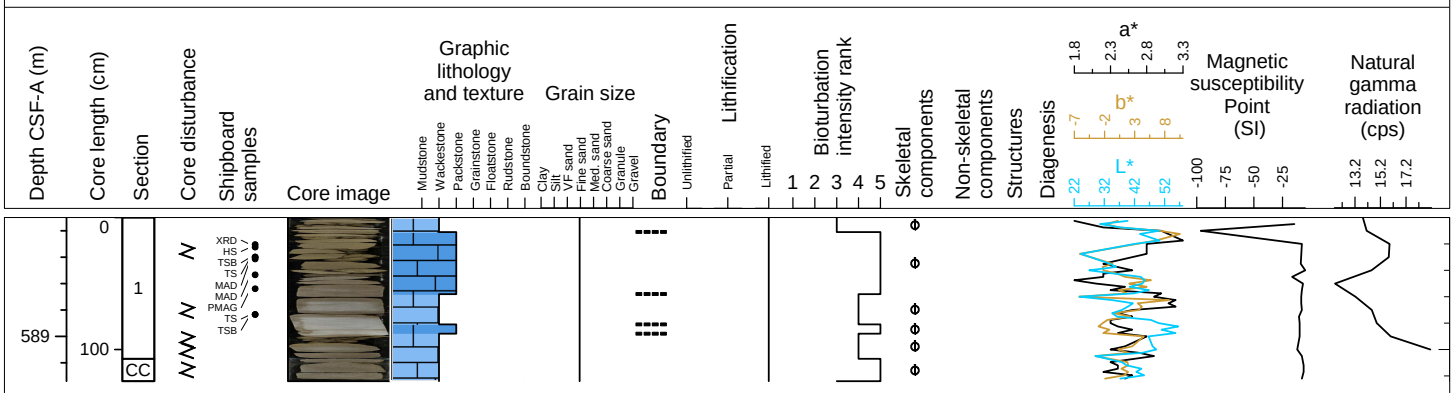
Hole 359-U1471A Core 69X, Interval 578.4-578.97 m (CSF-A)

Main lithology: Lithified planktic foraminifera-rich mud-lean PACKSTONE. Medium-grained light brownish gray. Planktic foraminifera are abundant and benthic foraminifera few. Minor: None. Remarks: Core Catcher only, severe drilling disturbance.



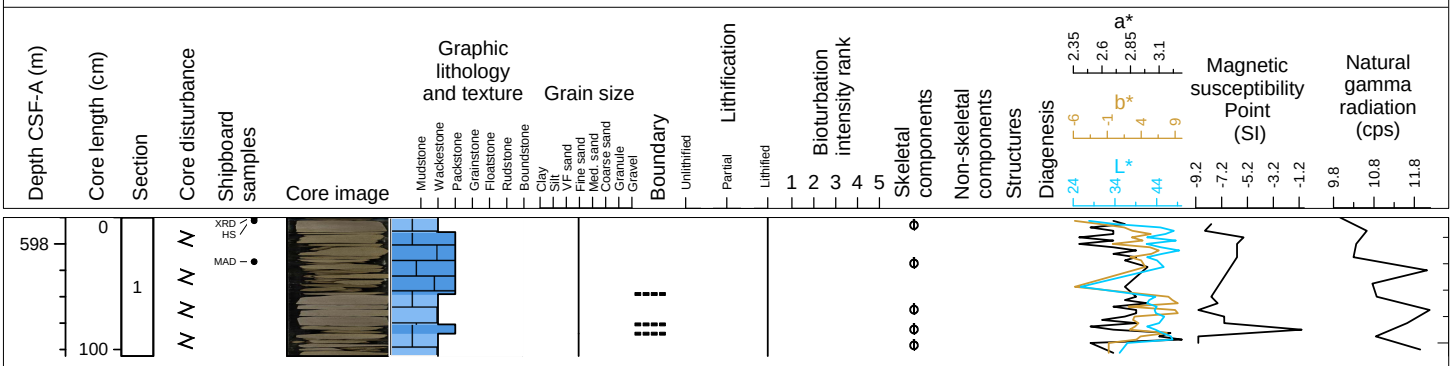
Hole 359-U1471A Core 70X, Interval 588.1-589.34 m (CSF-A)

Main lithology: Lithified PACKSTONE and WACKESTONE. Fine-grained, dark gray to dark grayish brown. Bioclasts and are abundant and planktic foraminifera are common. Abundant organic matter concentrated in burrows. Bioturbation is complete. Intraparticle porosity Remarks: Thin sections collected from 70X-1, 28 cm and 75 cm.



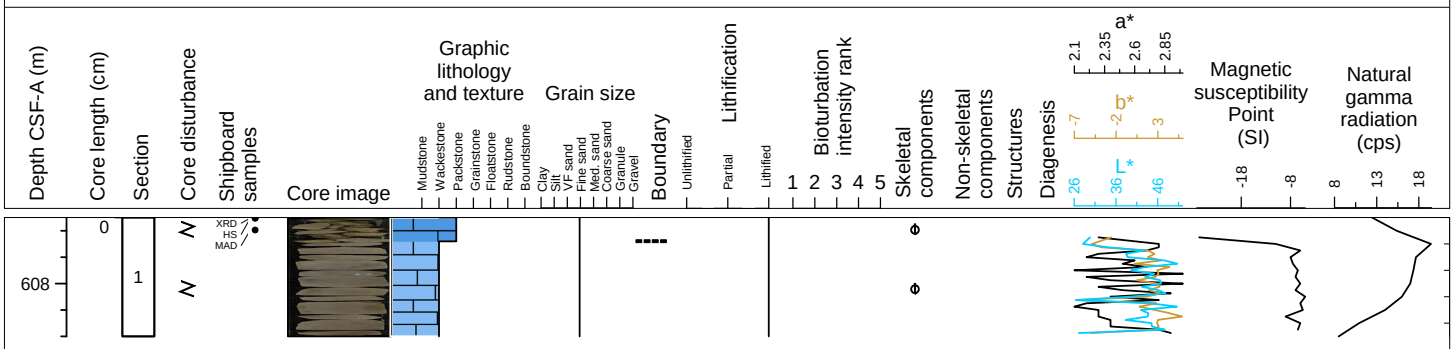
Hole 359-U1471A Core 71X, Interval 597.8-598.85 m (CSF-A)

Main lithology: Lithified interlayered WACKESTONE and PACKSTONE. Fine-grained, dark gray to dark grayish brown. Bioclasts and are abundant and planktic foraminifera are common. Abundant organic matter concentrated in burrows. Bioturbation is complete. Intraparticle porosity with calcite cement inside larger pores. Contacts are gradational color changes and bioturbated. Remarks: None



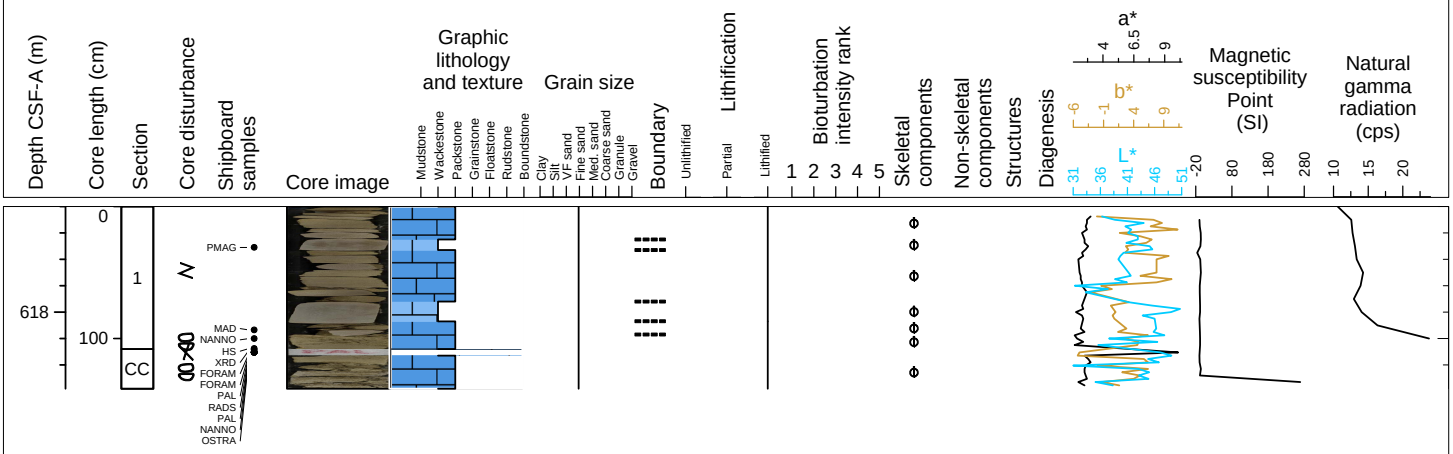
Hole 359-U1471A Core 72X, Interval 607.5-608.4 m (CSF-A)

Main lithology: Lithified interlayered WACKESTONE and PACKSTONE. Fine-grained, dark gray to dark grayish brown. Bioclasts and are abundant and planktic foraminifera are common. Abundant organic matter concentrated in burrows. Bioturbation is complete. Intraparticle porosity with calcite cement inside larger pores. Contacts are gradational color changes and bioturbated. Remarks: None



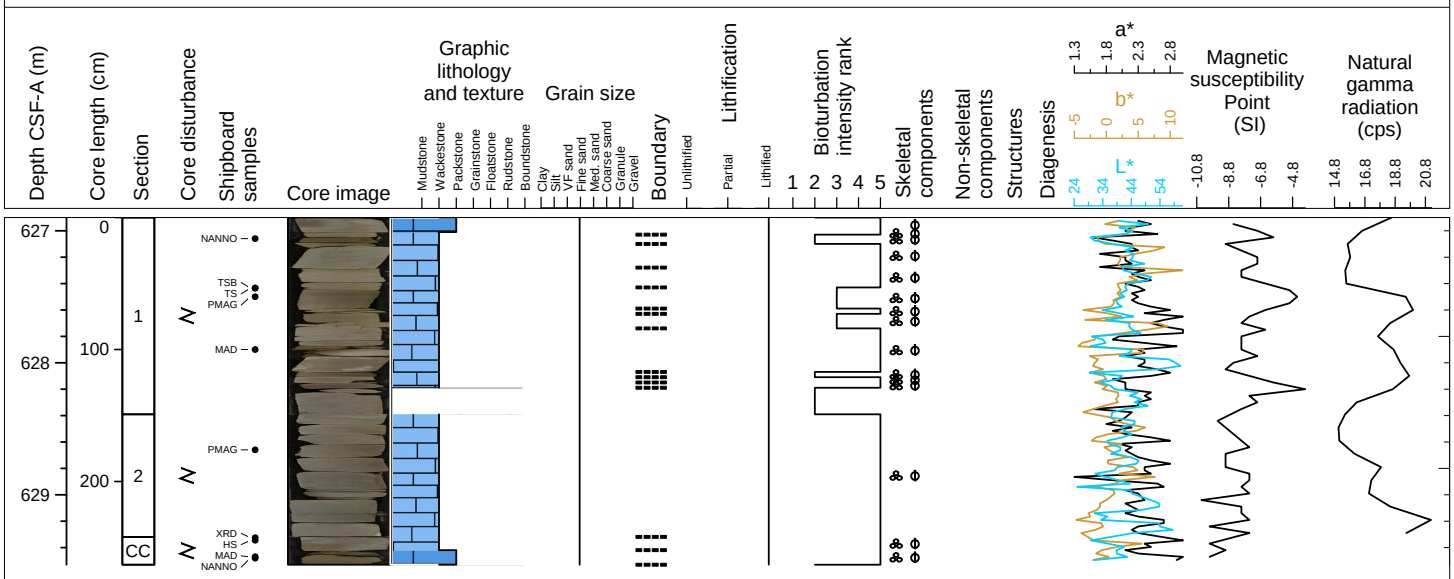
Hole 359-U1471A Core 73X, Interval 617.2-618.58 m (CSF-A)

Main lithology: Lithified interlayered WACKESTONE and PACKSTONE. Fine-grained, dark gray. Bioclasts and are abundant and planktic foraminifera are common. Abundant organic matter concentrated in burrows. Bioturbation is complete. Intraparticle porosity with calcite cement inside larger pores. Contacts are gradational color changes and bioturbated. Remarks: None



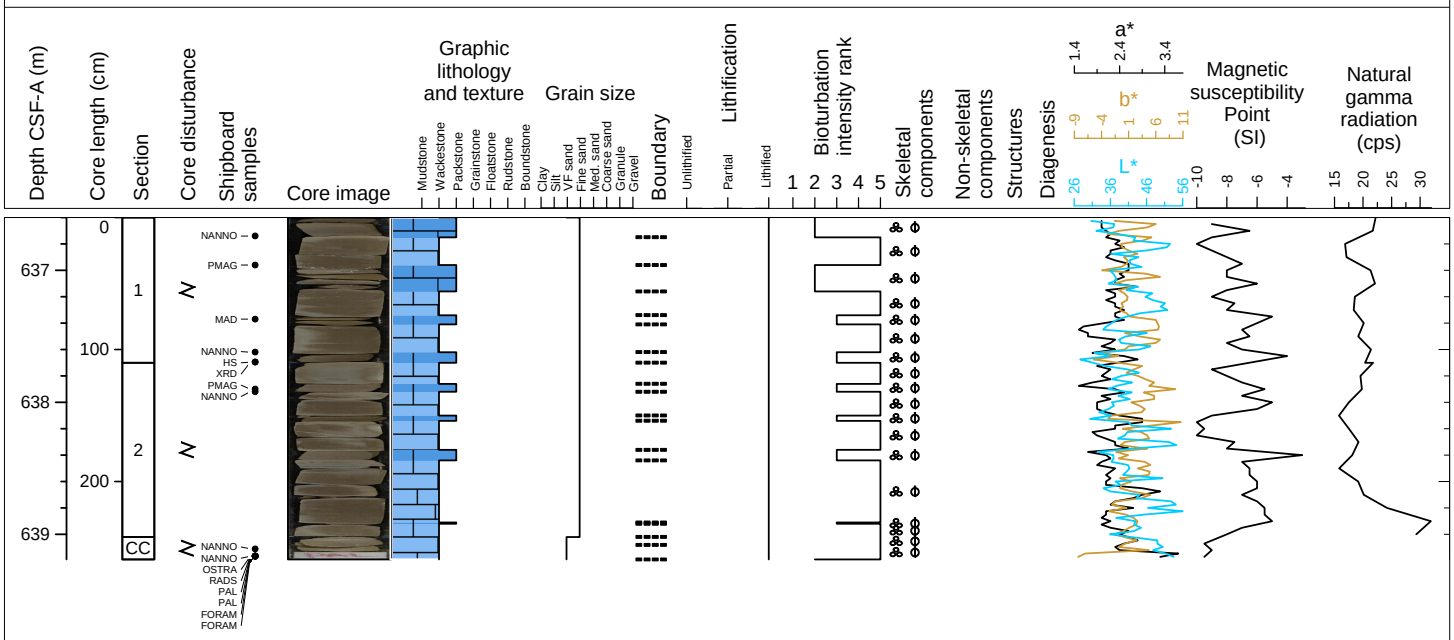
Hole 359-U1471A Core 74X, Interval 626.9-629.53 m (CSF-A)

Main lithology: Lithified interlayered WACKESTONE and PACKSTONE. Fine-grained, dark gray. Planktic foraminifera are abundant and few to rare benthic foraminifera. Bioturbation is complete to moderate. Intraparticle porosity with calcite cement inside larger pores. Contacts are gradational color changes and bioturbated. Remarks: few fractures completely filled by celestine



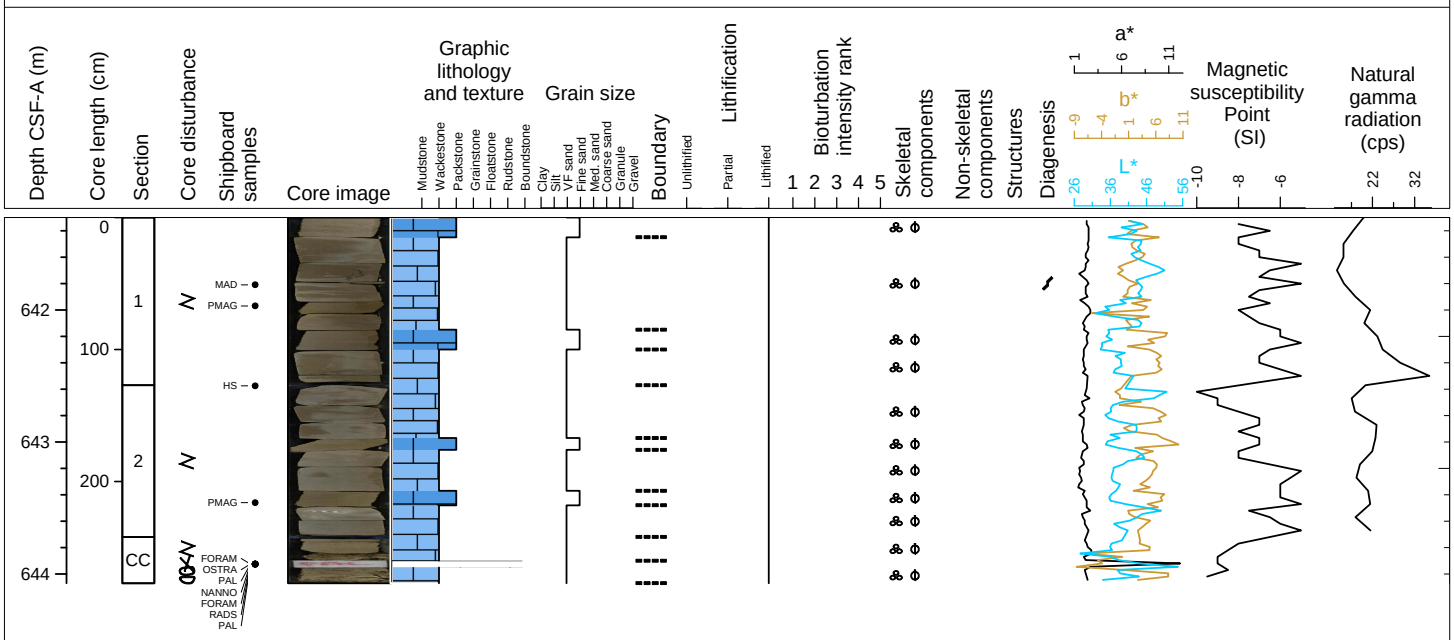
Hole 359-U1471A Core 75X, Interval 636.6-639.19 m (CSF-A)

Main lithology: Lithified interlayered WACKESTONE and PACKSTONE. Fine-grained, dark gray. Planktic foraminifera are abundant and few to rare benthic foraminifera. Bioturbation is complete to moderate and facies shows slightly laminated. Intraparticle porosity with calcite cement inside larger pores. Contacts are gradational color changes and bioturbated. Remarks: few fractures



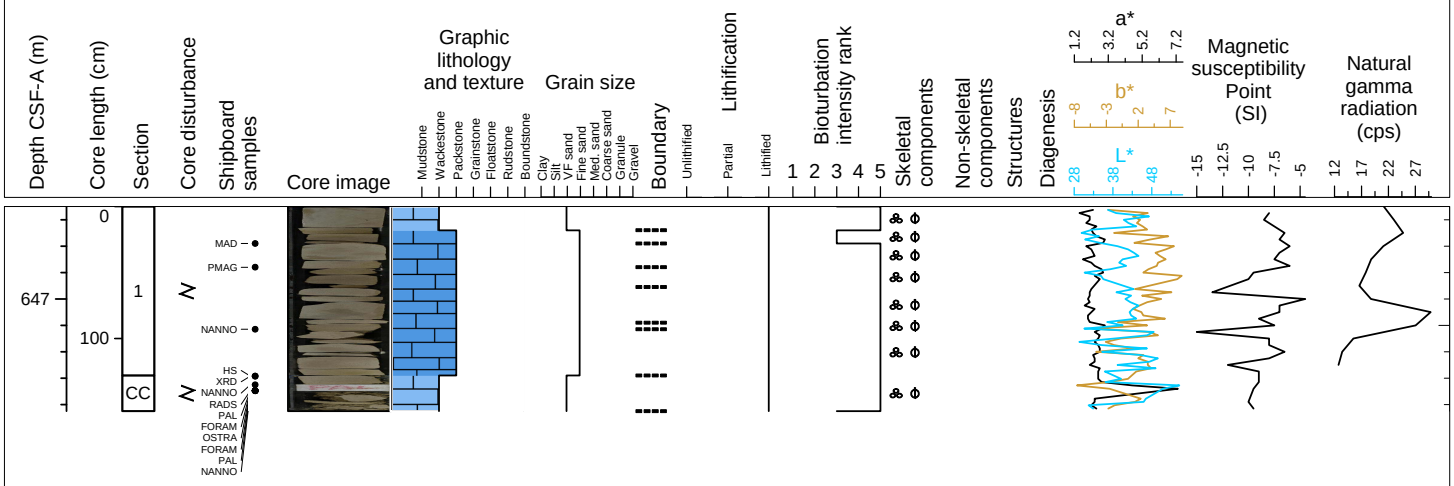
Hole 359-U1471A Core 76X, Interval 641.3-644.07 m (CSF-A)

Main lithology: Lithified interlayered WACKESTONE and PACKSTONE. Fine-grained, dark gray. Planktic foraminifera are abundant and few to rare benthic foraminifera. Bioturbation is complete to moderate and facies shows lamination. Contacts are gradational color changes and bioturbated. Remarks: few fractures



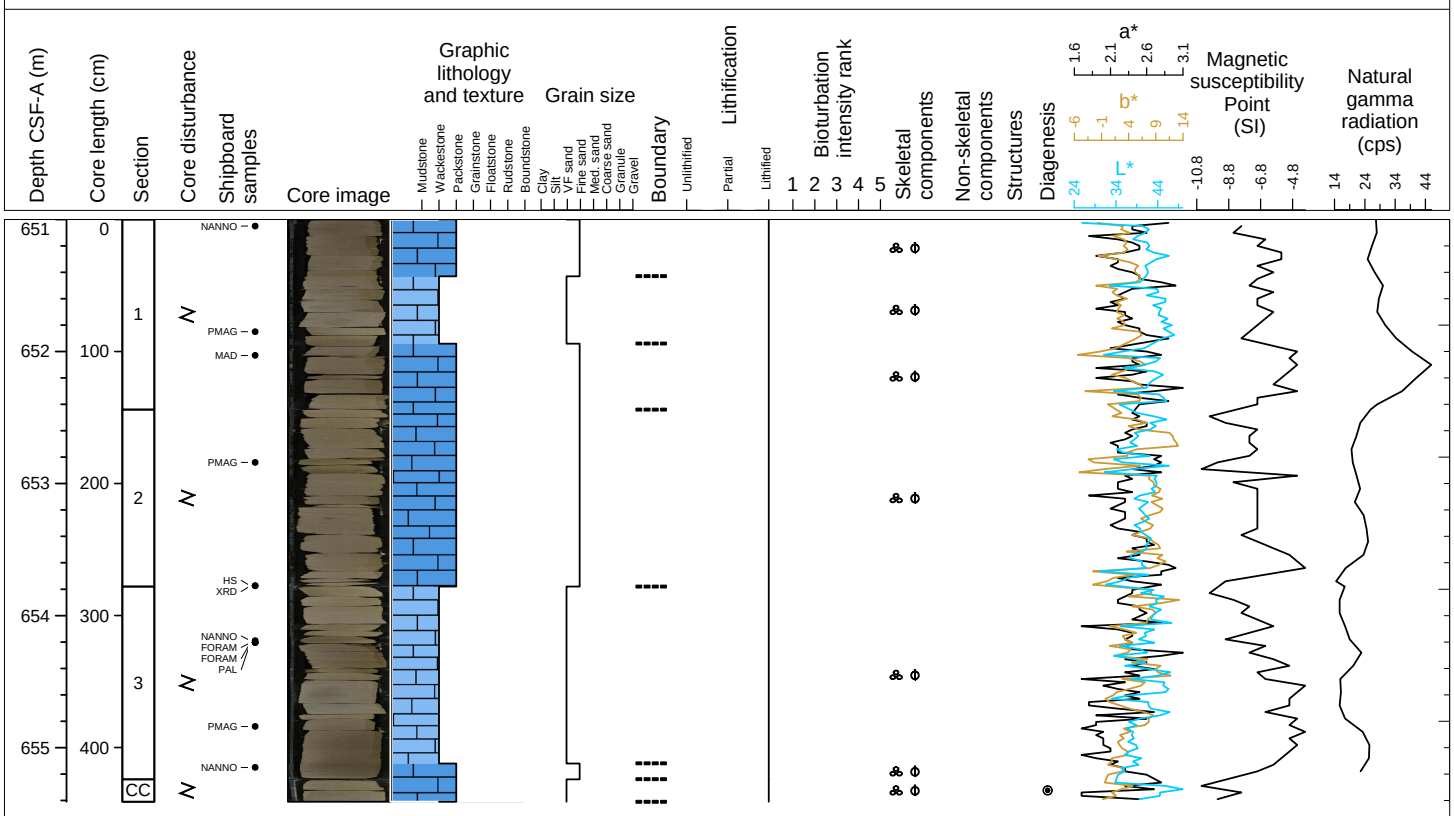
Hole 359-U1471A Core 77X, Interval 646.3-647.85 m (CSF-A)

Main lithology: Lithified interlayered WACKESTONE and PACKSTONE. Fine-grained, dark gray to light yellowish brown. Planktic foraminifera are abundant and few to rare benthic foraminifera. Bioturbation is complete to moderate and facies shows lamination. Contacts are gradational color changes and bioturbated.
Remarks: few fractures



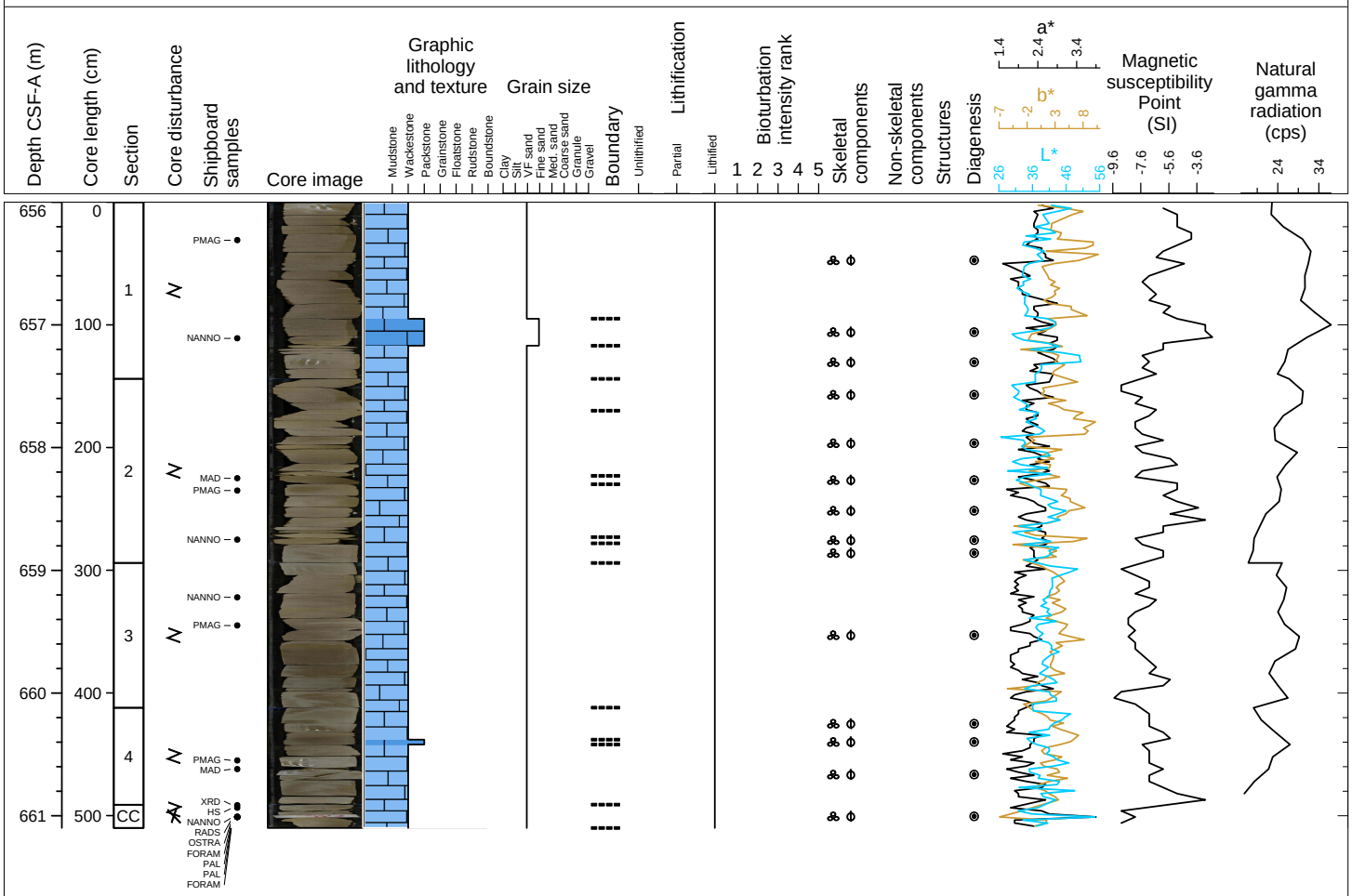
Hole 359-U1471A Core 78X, Interval 651.0-655.41 m (CSF-A)

Main lithology: Lithified interlayered WACKESTONE and PACKSTONE. Fine-grained, dark gray to light yellowish brown. Planktic foraminifera are abundant and few to rare benthic foraminifera. Bioturbation is complete to moderate and facies shows lamination. Contacts are gradational color changes and bioturbated.
Remarks: Clear ichnospecies: Thalassinoides and Chondrites, also, Planolites and Zoophycos



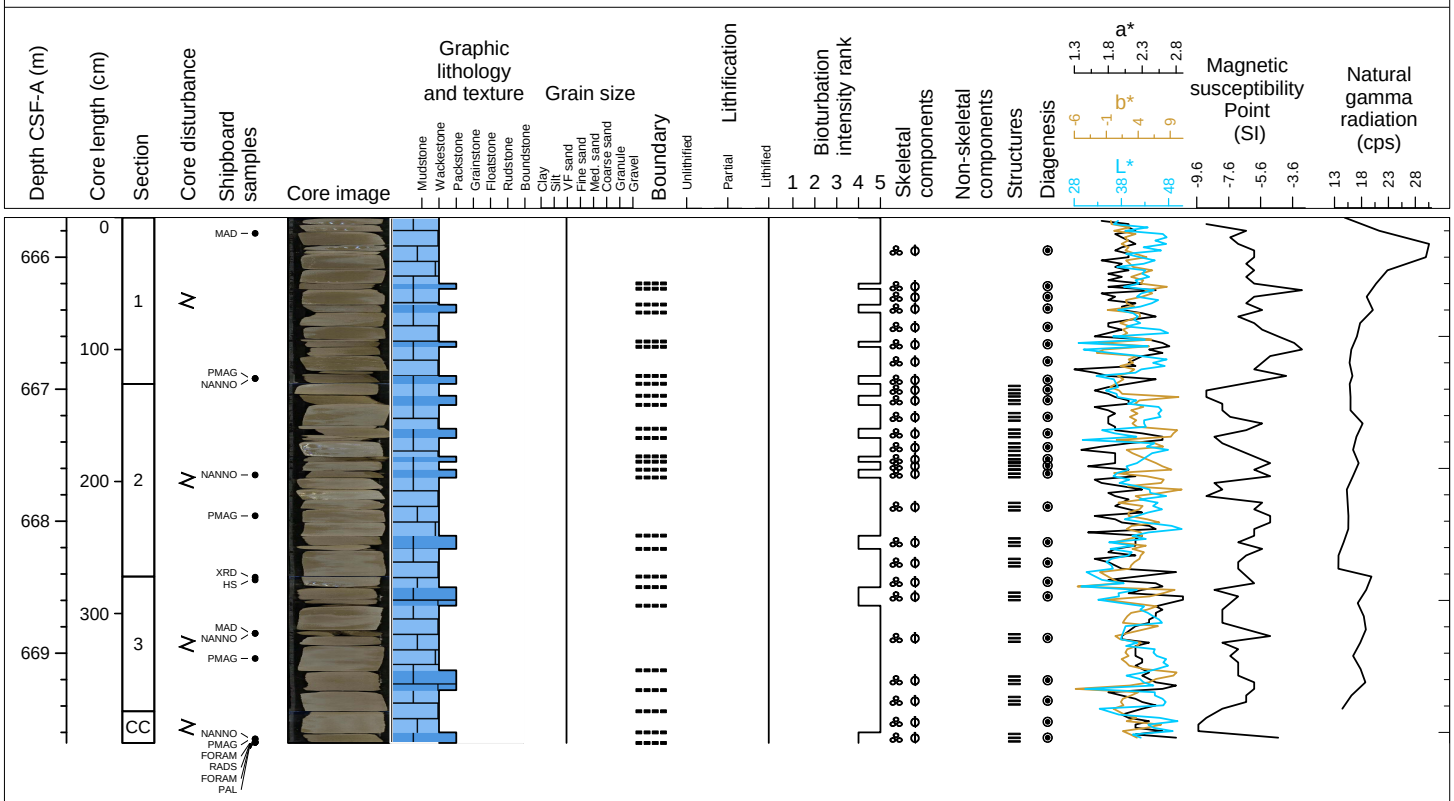
Hole 359-U1471A Core 79X, Interval 656.0-661.1 m (CSF-A)

Main lithology: Lithified interlayered WACKESTONE and PACKSTONE. Fine-grained, light gray, grayish brown to light brownish gray. Planktic foraminifera are abundant and few to rare benthic foraminifera. Bioturbation is complete to moderate and facies shows lamination. Contacts are gradational color changes and bioturbated.Remarks: Clear ichnospecies: Thalassinoides and Chondrites, also, Planolites and Zoophycos.



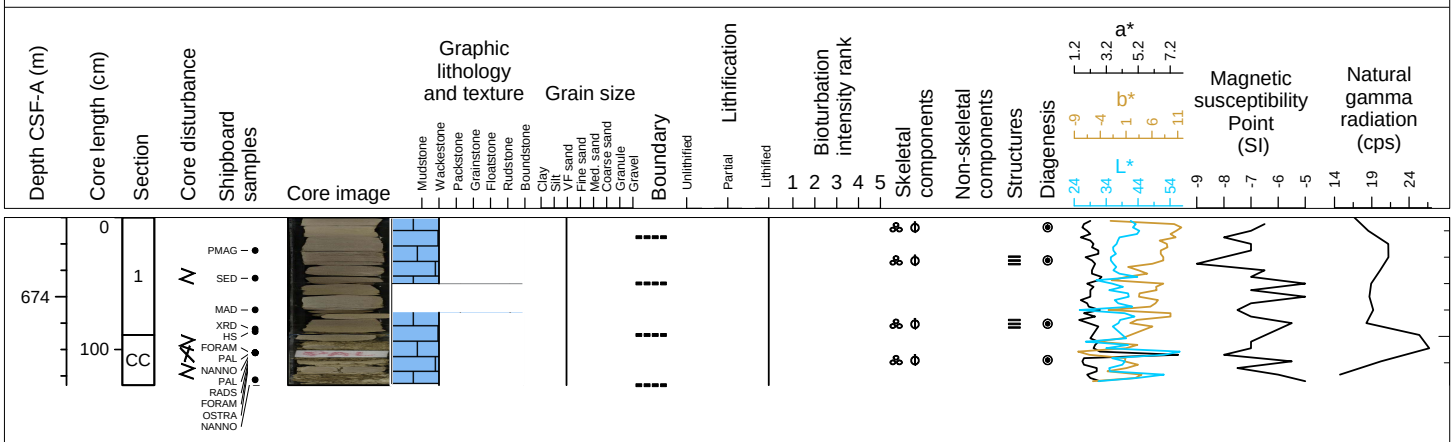
Hole 359-U1471A Core 80X, Interval 665.7-669.68 m (CSF-A)

Main lithology: Lithified interlayered WACKESTONE and PACKSTONE. Fine-grained, light gray, grayish brown to light brownish gray. Planktic foraminifera are abundant and few to rare benthic foraminifera. Bioturbation is complete to moderate and facies shows lamination. Contacts are gradational color changes and bioturbated. Remarks: The core shows alternation between cemented and compacted horizons.



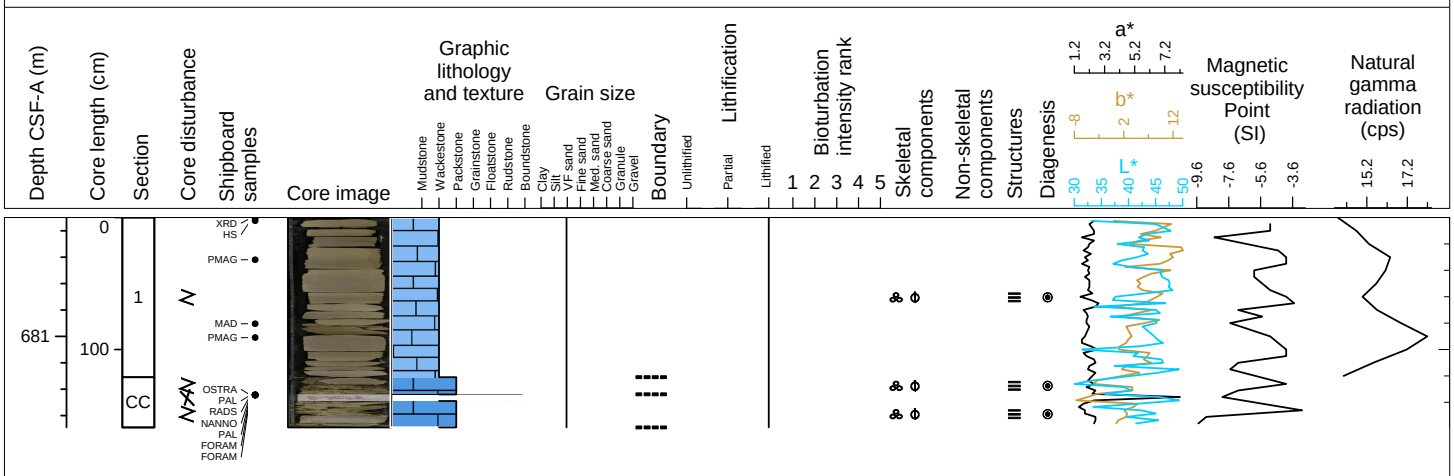
Hole 359-U1471A Core 81X, Interval 673.4-674.67 m (CSF-A)

Main lithology: Lithified interlayered WACKESTONE and PACKSTONE. Fine-grained, light gray, grayish brown to light brownish gray. Planktic foraminifera are abundant and few to rare benthic foraminifera. Bioturbation is complete to moderate and facies shows lamination. Contacts are gradational color changes and bioturbated. Remarks: The core shows alternation between cemented and compacted horizons.



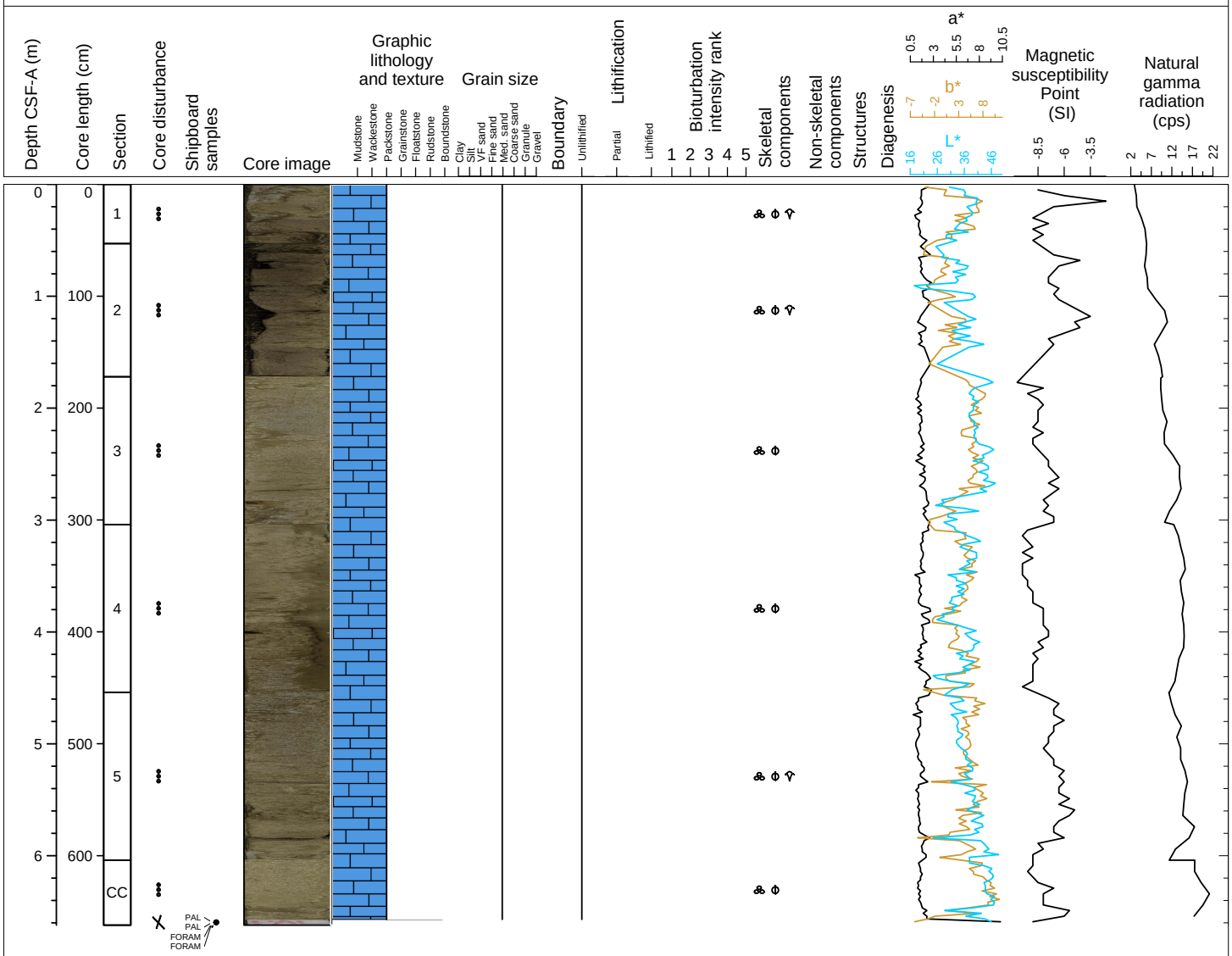
Hole 359-U1471A Core 82X, Interval 680.1-681.69 m (CSF-A)

Main lithology: Lithified PACKSTONE. Fine-grained, light gray, grayish brown to light brownish gray. Planktic foraminifera are abundant and few to rare benthic foraminifera. Bioturbation is moderate and is commonly associated with poor laminated intervals. Contacts are gradational color changes and bioturbated.
Remarks: The core shows alternation between cemented and compacted horizons.



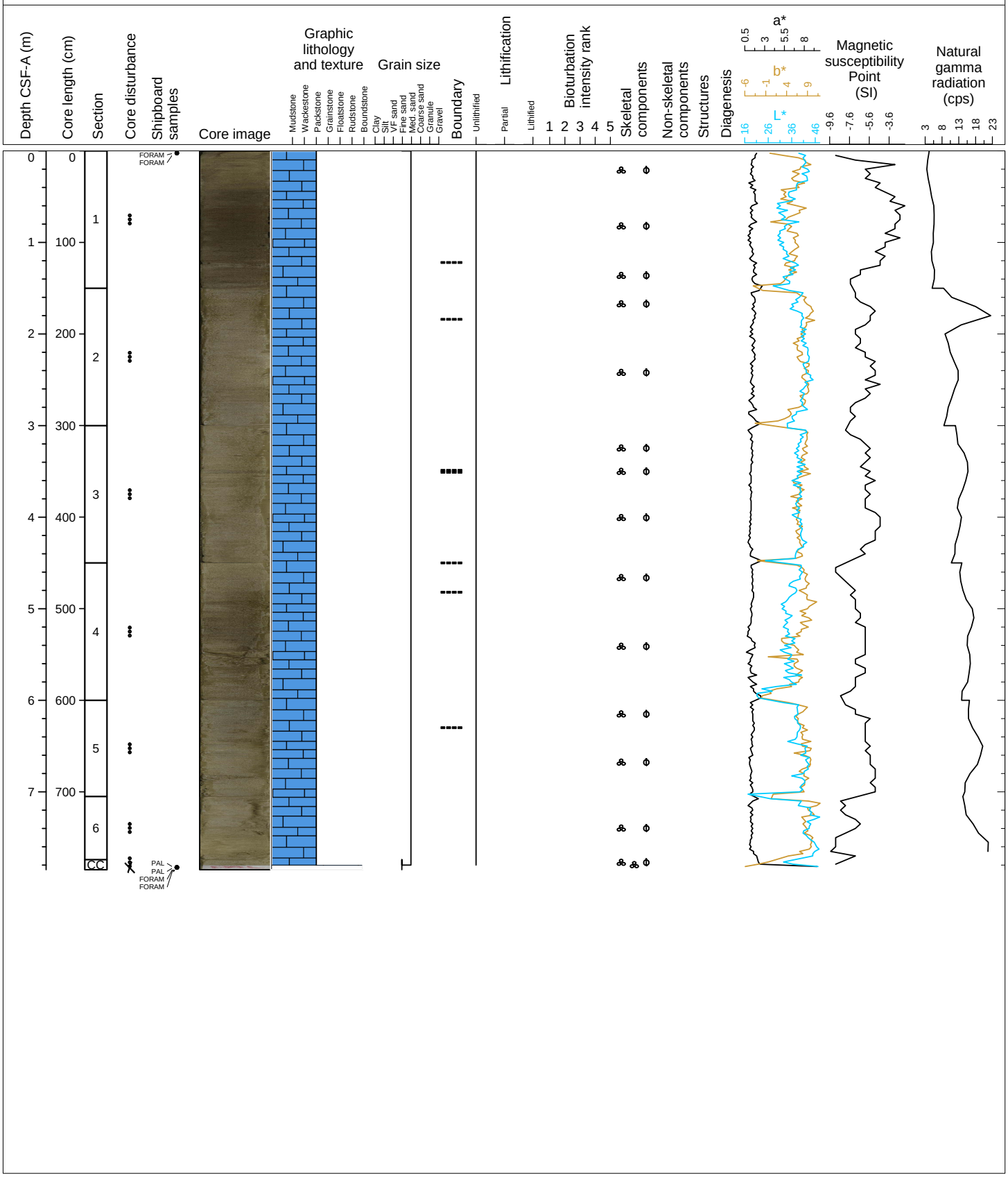
Hole 359-U1471B Core 1H, Interval 0.0-6.62 m (CSF-A)

Major lithology: Unlithified planktic foraminifera-rich PACKSTONE. Fine- to medium-grained, grayish brown. Planktic foraminifer are abundant. Benthic foraminifer, gastropods, and pteropods are common. Bioturbation is common to complete. Contacts are represented by gradational color change. Minor lithology: Remarks: None



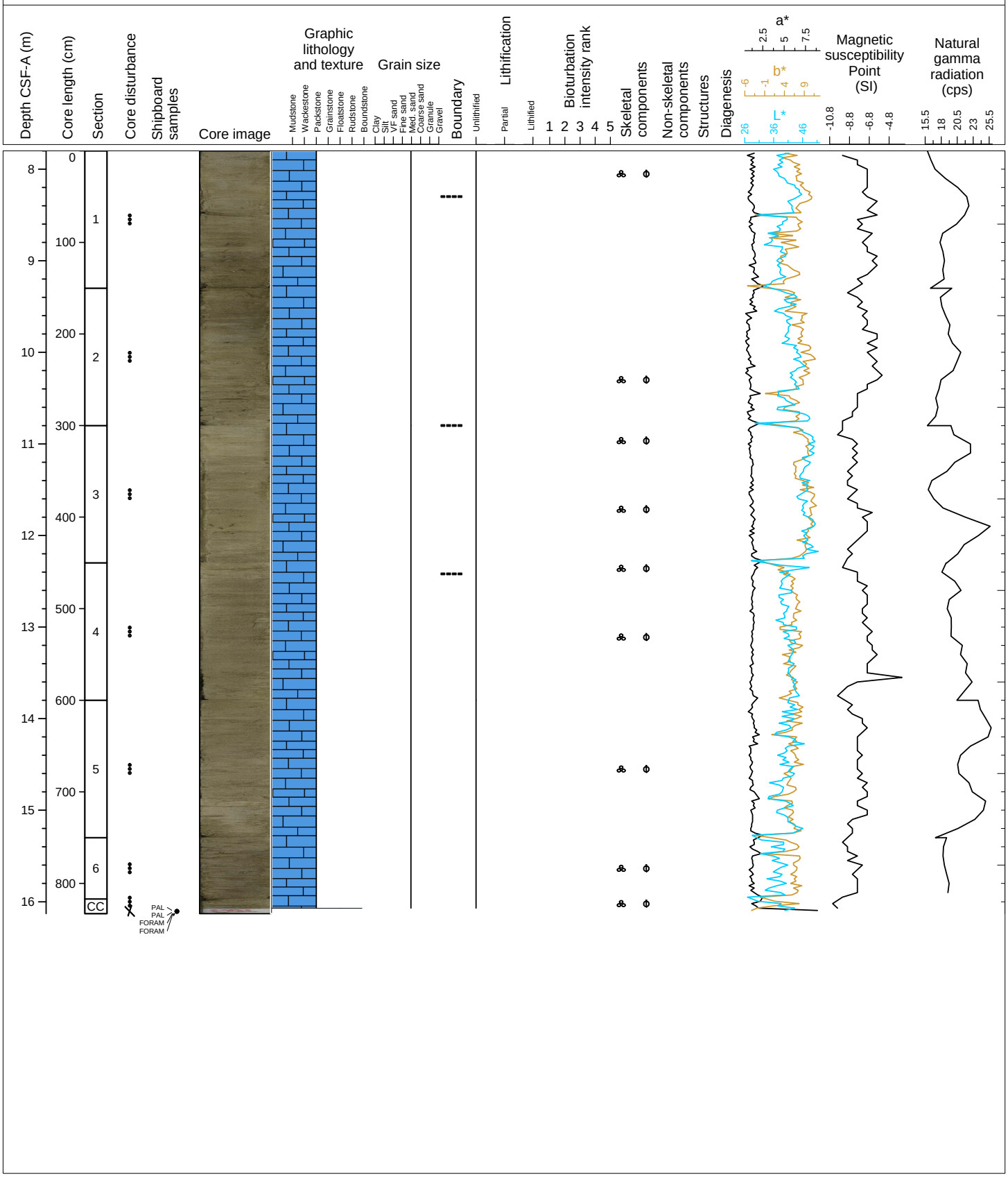
Hole 359-U1471C Core 1H, Interval 0.0-7.85 m (CSF-A)

Major lithology: Unlithified planktic foraminifera-rich mud-lean PACKSTONE. Medium-grained, light gray to grayish brown and dark grayish brown. Planktic foraminifer are abundant. Bioclasts, benthic foraminifer, gastropods, pteropods, and echinoderm spines are present. Agglutinate foraminifera are rare. Some grains are yellow/brown stained. Organic matter is common and often as infill in foraminifera. Contacts are gradational and represent by changes in color. Minor lithology: None. Remarks: Totally disturbed - soupy.



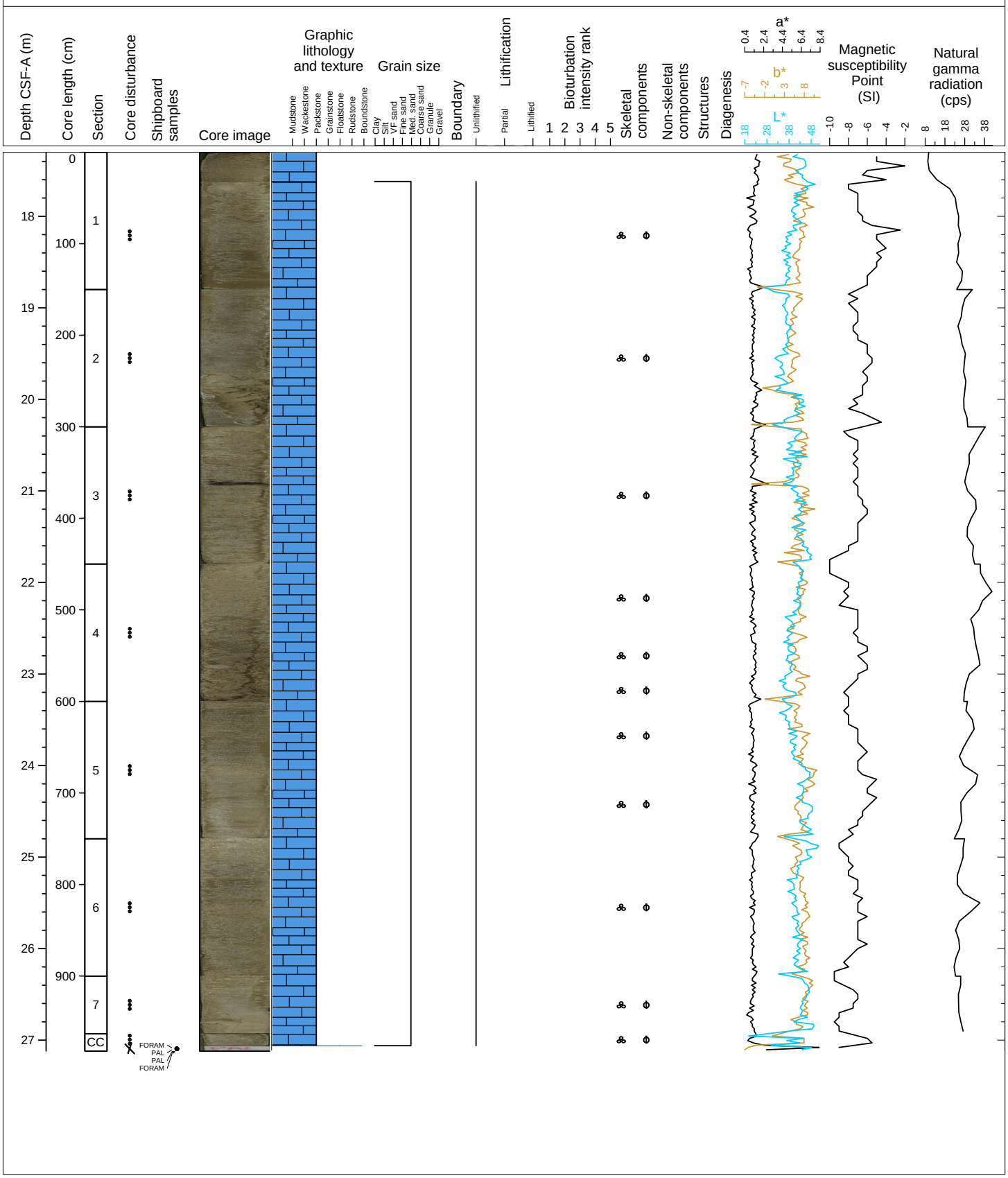
Hole 359-U1471C Core 2H, Interval 7.8-16.13 m (CSF-A)

Major lithology: Unlithified planktic foraminifera-rich mud-lean PACKSTONE. Medium-grained, light gray to grayish brown and dark grayish brown. Planktic foraminifer are abundant. Benthic foraminifer bioclasts, pteropods, and echinoderm spines are present to common. Bivalve, gastropods and otoliths are few. Some grains are yellow/brown stained. Organic matter is common and often as infill in foraminifera. Contacts are gradational and represent by changes in color. Minor lithology: None. Remarks:



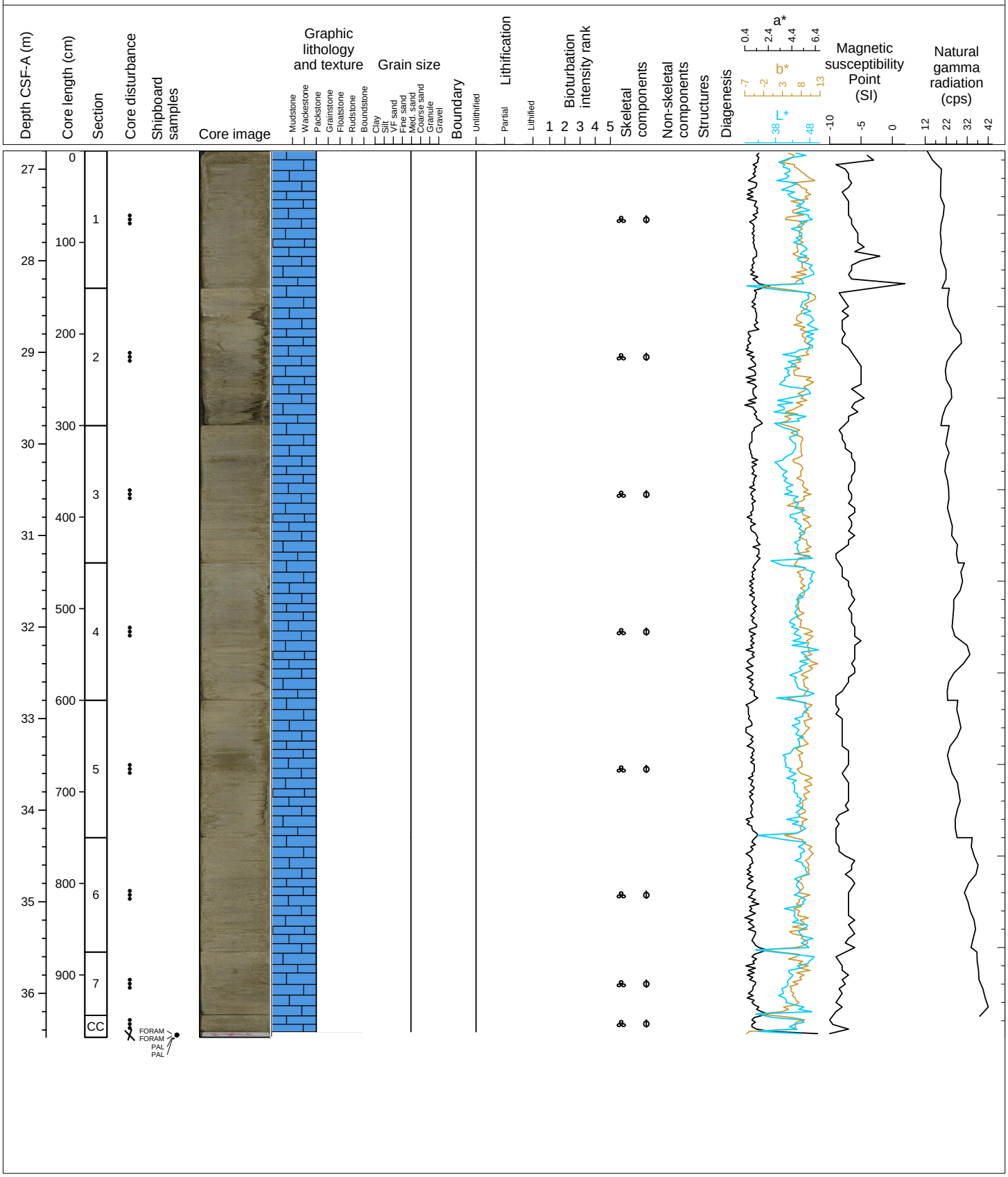
Hole 359-U1471C Core 3H, Interval 17.3-27.12 m (CSF-A)

Major lithology: Unlithified planktic foraminifera-rich PACKSTONE. Medium-grained, light gray to grayish brown and dark grayish brown. Planktic foraminifera are abundant. Benthic foraminifera, bioclasts, pteropods, and echinoderm spines are present to common. Bivalve, gastropods and otoliths are few. Some grains are yellow/brown stained. Organic matter is common and often as infill in foraminifera. Contacts are gradational and represent by changes in color. Minor lithology: None. Remarks:



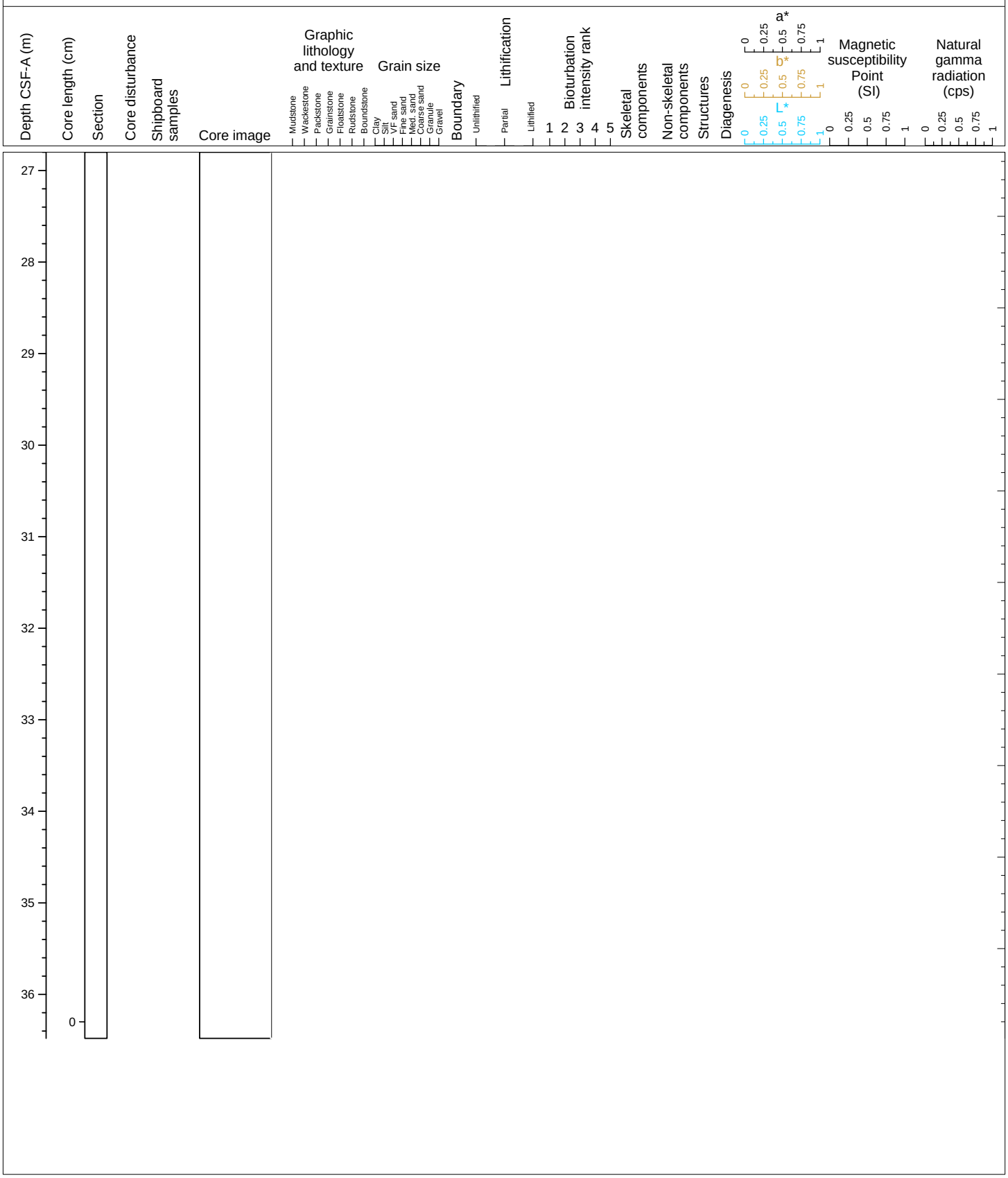
Hole 359-U1471C Core 4H, Interval 26.8-36.48 m (CSF-A)

Major lithology: Unlithified planktic foraminifera-rich mud-lean PACKSTONE. Medium-grained, light gray to grayish brown and dark grayish brown. Planktic foraminifer are abundant. Benthic foraminifer, bioclasts, pteropods, and echinoderm spines are present to common. Bivalve, gastropods and otoliths are few. Some grains are yellow/brown stained. Organic matter is common and often as infill in foraminifera. Contacts are gradational and represent by changes in color.
Minor lithology: None. Remarks:



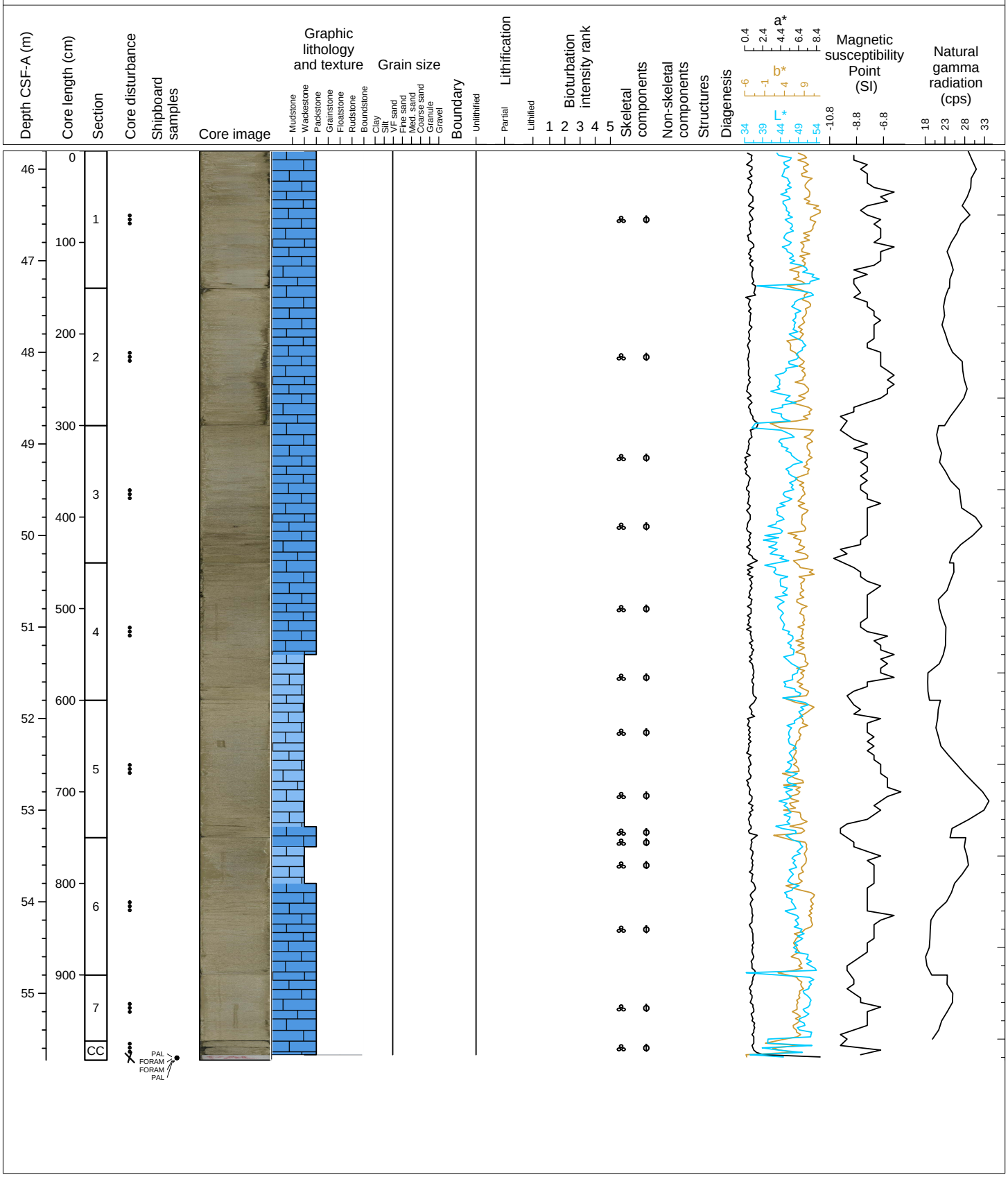
Hole 359-U1471C Core 5H, Interval 36.3-36.3 m (CSF-A)

NO RECOVERY



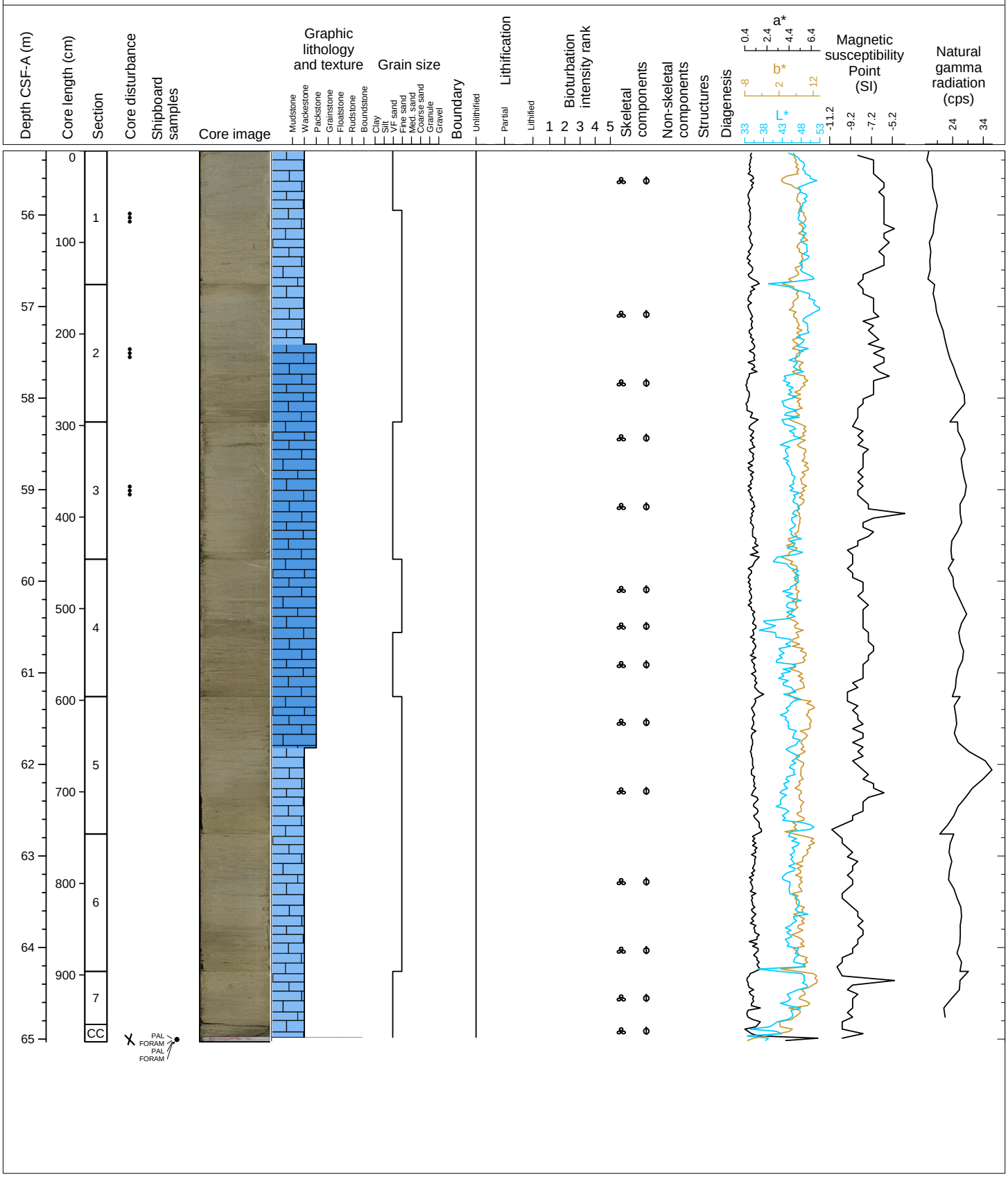
Hole 359-U1471C Core 6H, Interval 45.8-55.73 m (CSF-A)

Major lithology: Unlithified planktic foraminifera-rich mud-lean PACKSTONE. Medium-grained, light gray to grayish brown and dark grayish brown. Planktic foraminifer are abundant. Benthic foraminifer, bioclasts and echinoderm spines are present to common. Otoliths are few. Contacts are gradational and represent by changes in color.



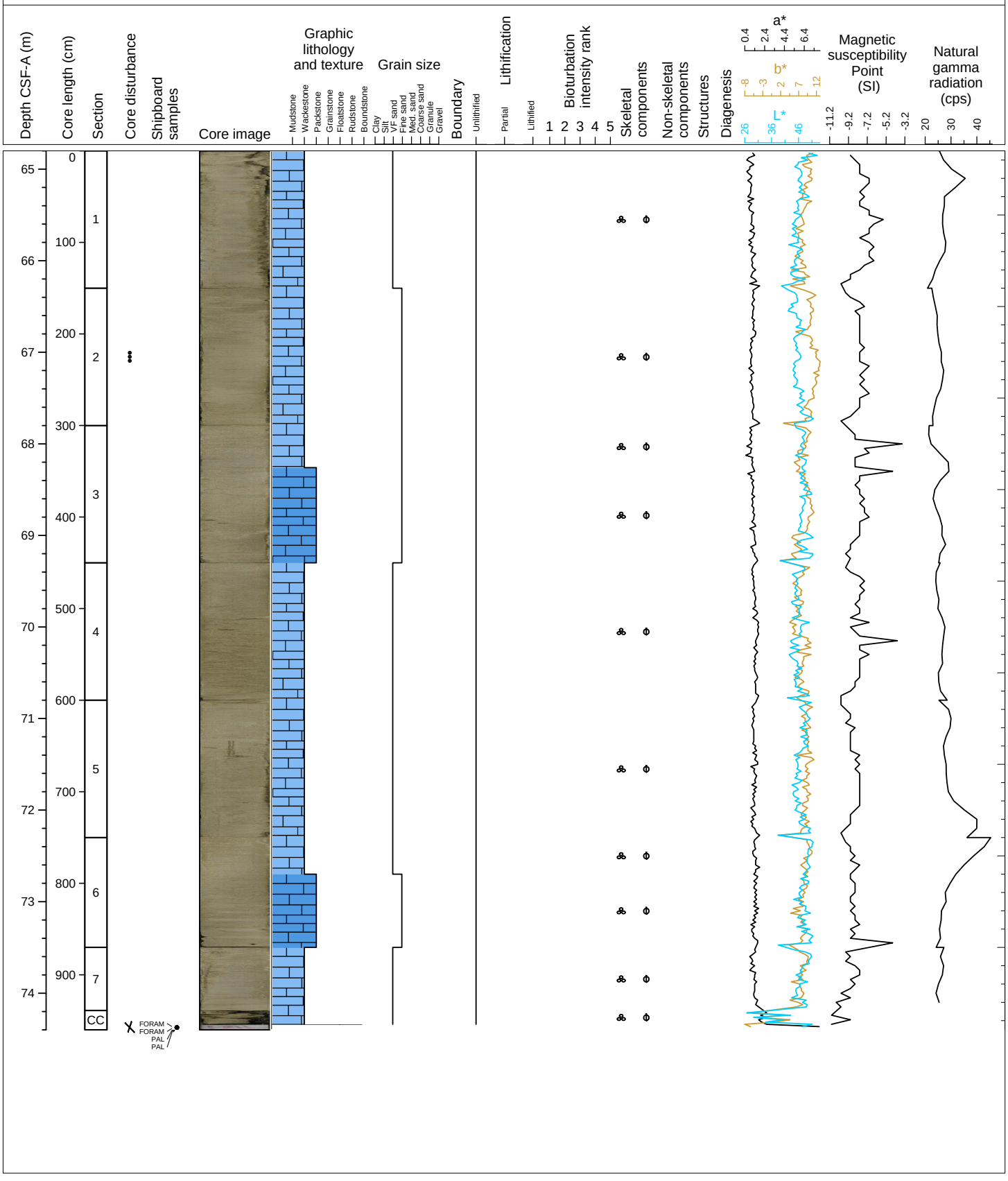
Hole 359-U1471C Core 7H, Interval 55.3-65.03 m (CSF-A)

Major lithology: Unlithified planktic foraminifera-rich mud-lean PACKSTONE to WACKESTONE. Medium- to fine-grained, light gray to grayish brown and dark grayish brown. Planktic foraminifer are abundant. Otoliths are few. Benthic foraminifer, bioclasts, and echinoderm spines are present to common. Contacts are gradational and represent by changes in color. Minor lithology: None. Remarks: Mottling



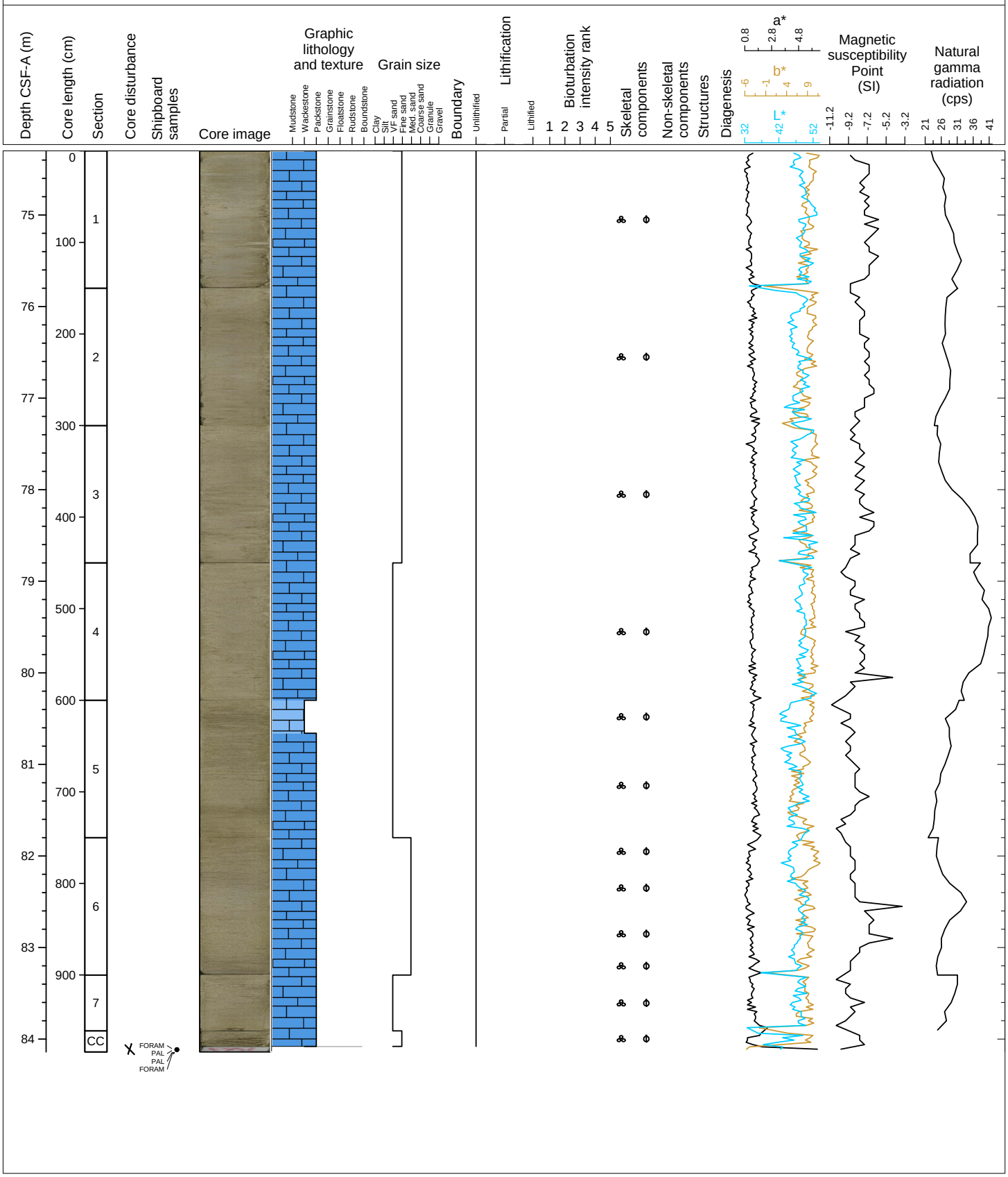
Hole 359-U1471C Core 8H, Interval 64.8-74.4 m (CSF-A)

Major lithology: Unlithified planktic foraminifera-rich mud-lean PACKSTONE to WACKESTONE. Medium- to fine-grained, light gray to light brownish gray. Planktic foraminifer are abundant. Black grains are few. Benthic foraminifer bioclasts, and echinoderm spines are present to common. Contacts are gradational and represent by changes in color. Minor lithology: None. Remarks: None.



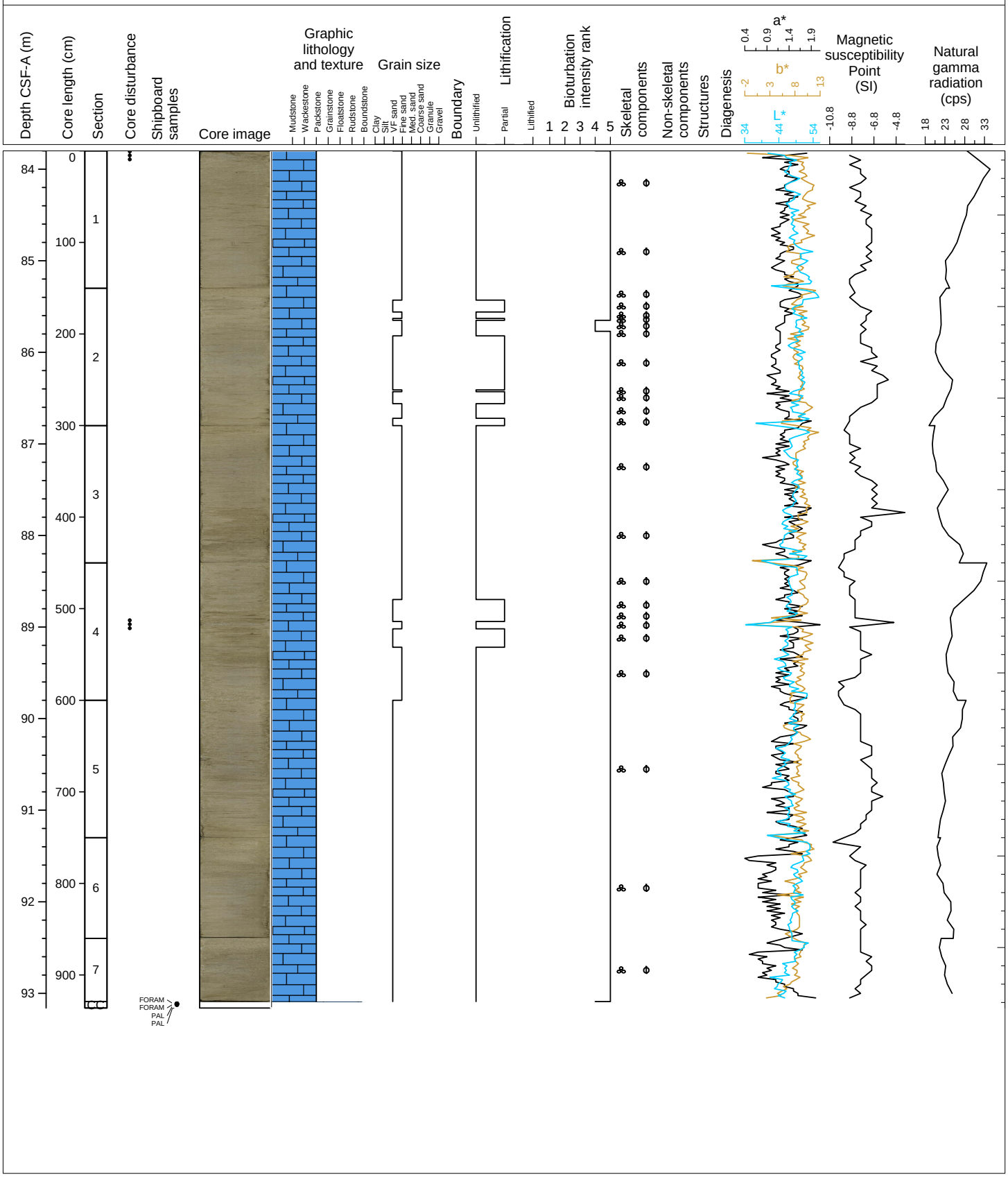
Hole 359-U1471C Core 9H, Interval 74.3-84.14 m (CSF-A)

Major lithology: Unlithified planktic foraminifera-rich mud-lean PACKSTONE to WACKESTONE. Medium- to fine-grained, light gray to light brownish gray. Planktic foraminifer are abundant. Black grains are few. Benthic foraminifer bioclasts, and echinoderm spines are present to common. Contacts are gradational and represent by changes in color. Minor lithology: None. Remarks: Well preserved ichnospecies: Planolites and Thalassinoides identified.



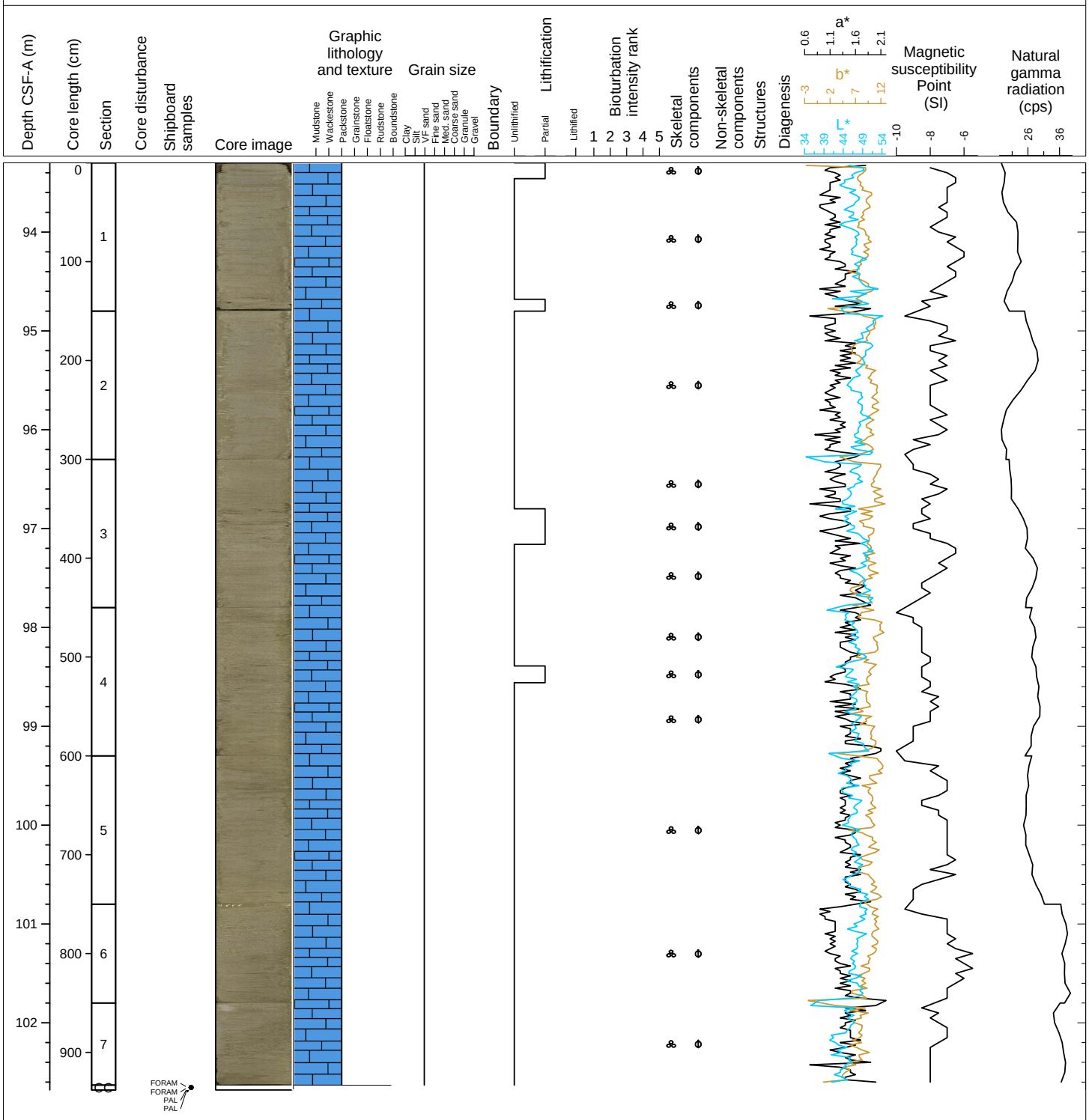
Hole 359-U1471C Core 10H, Interval 83.8-93.16 m (CSF-A)

Major lithology: Unlithified to partly lithified planktic foraminifera-rich PACKSTONE. Medium- to fine-grained, light gray to light brownish gray. Planktic foraminifer are abundant. Black grains are few. Benthic foraminifer and bioclasts are present. Contacts are gradational and represent by changes in color. Minor lithology: None. Remarks: Lithification increases down core. First core with partly lithified intervals.



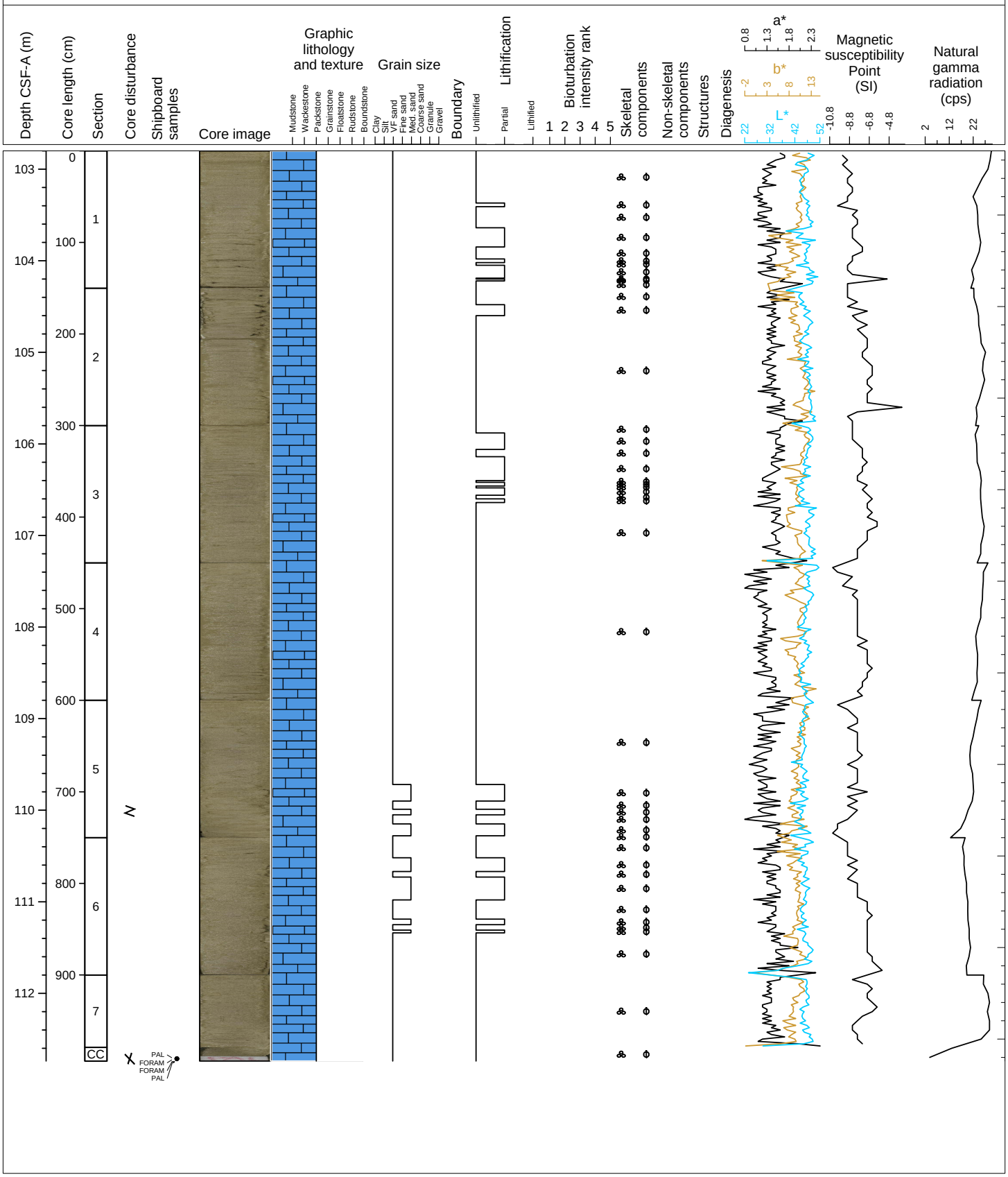
Hole 359-U1471C Core 11H, Interval 93.3-102.68 m (CSF-A)

Major lithology: Unlithified to partly lithified planktic foraminifera-rich PACKSTONE. Medium- to fine-grained, light gray to light brownish gray. Planktic foraminifer are abundant. Black grains are few. Benthic foraminifer and bioclasts are present. Contacts are gradational and represent by changes in color. Minor lithology: None. Remarks: None



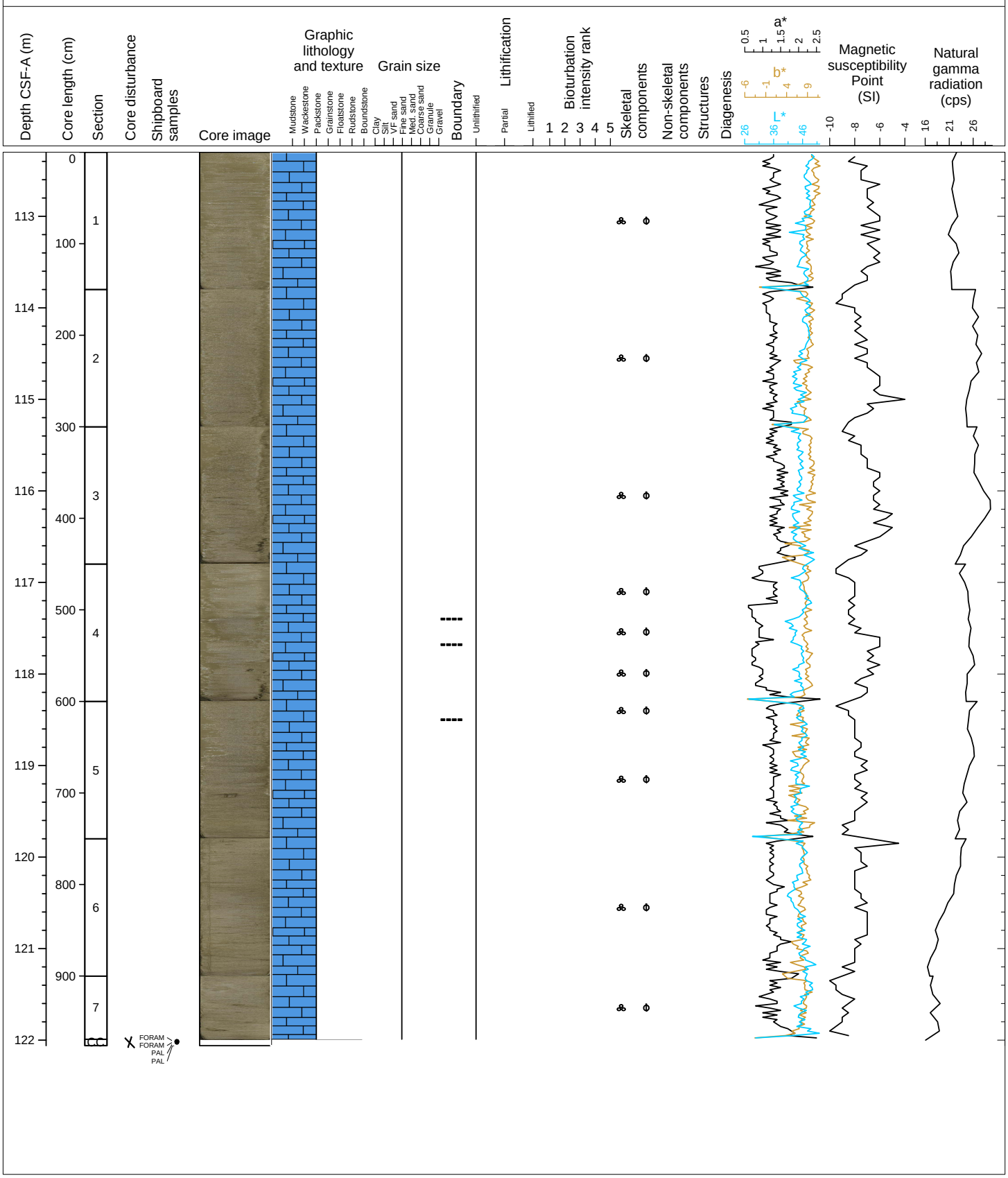
Hole 359-U1471C Core 12H, Interval 102.8-112.74 m (CSF-A)

Major lithology: Unlithified to partly lithified planktic foraminifera-rich PACKSTONE. Medium- to fine-grained, light gray to light brownish gray. Planktic foraminifer are abundant. Black grains are few. Benthic foraminifer and bioclasts are present. Contacts are gradational and represent by changes in color. Minor lithology: None. Remarks: None.



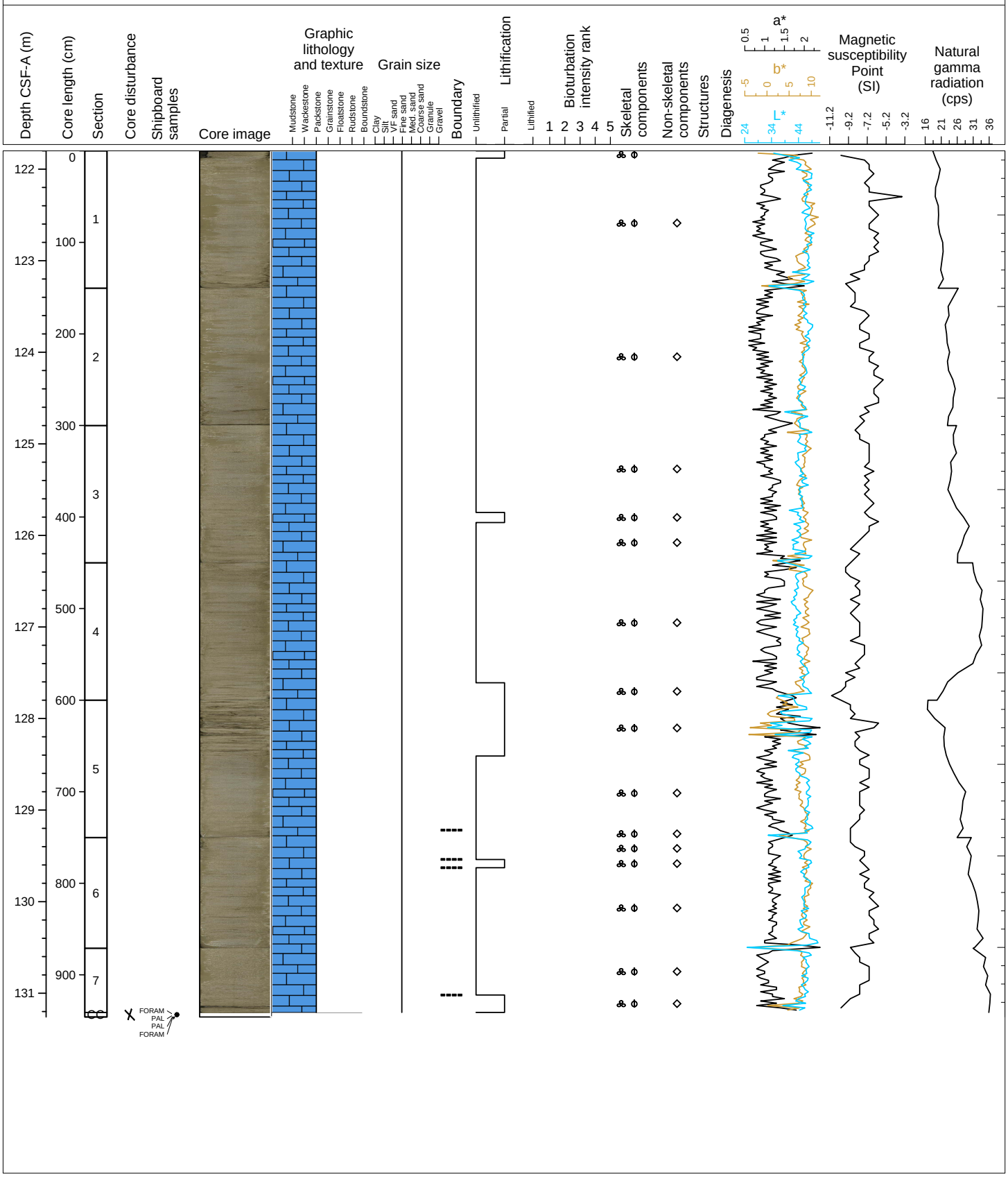
Hole 359-U1471C Core 13H, Interval 112.3-122.06 m (CSF-A)

Major lithology: Unlithified planktic foraminifera-rich PACKSTONE. Fine- to medium-grained light gray to light brownish gray. Planktic foraminifer are abundant and benthic foraminifera are common. Organic matter is present. Mollusk fragments are rare. Bioturbation is complete. Contacts are gradational and represent by changes in color. Minor lithology: None. Remarks: Mottled due to bioturbation.



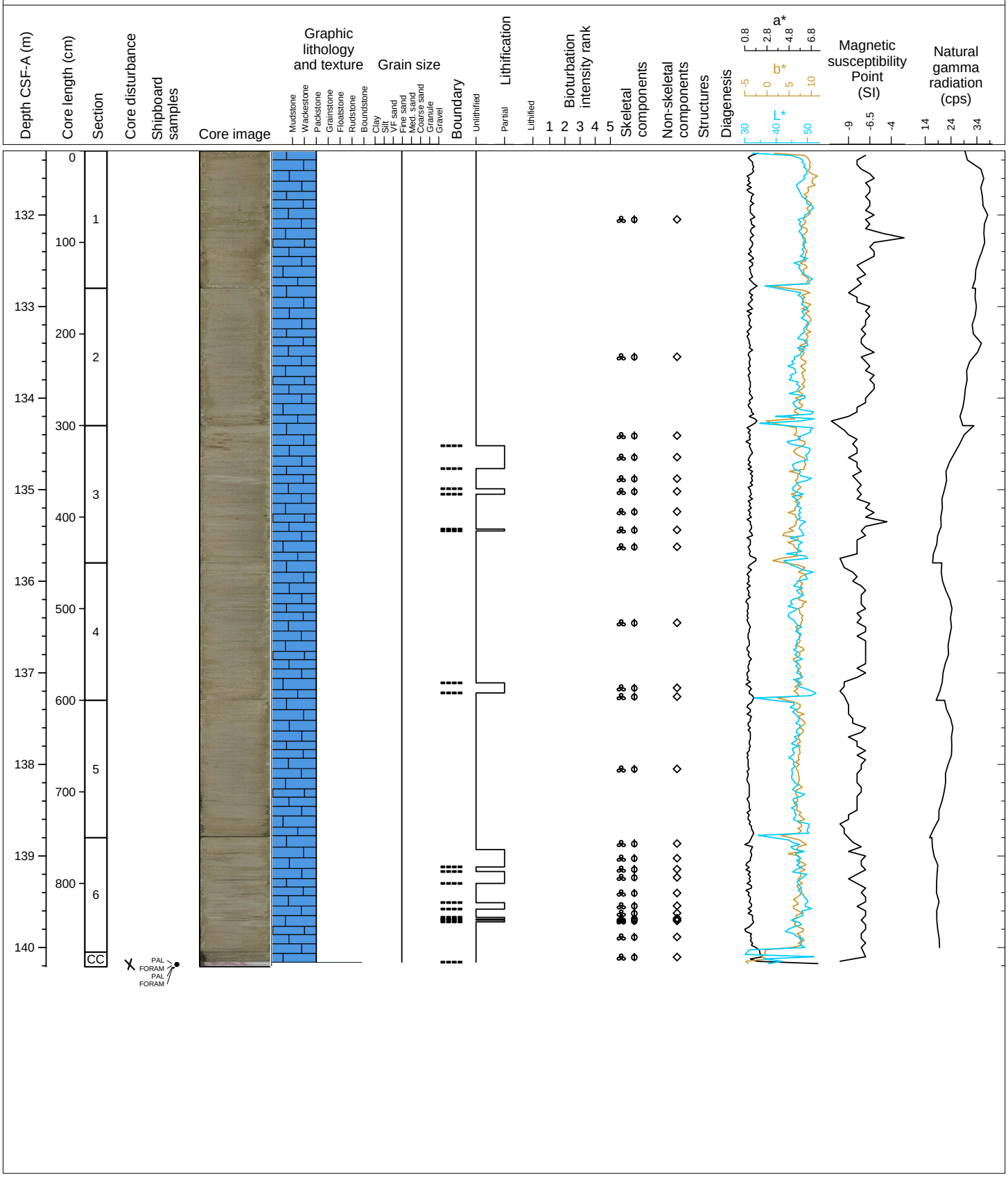
Hole 359-U1471C Core 14H, Interval 121.8-131.26 m (CSF-A)

Major lithology: Unlithified planktic foraminifera-rich PACKSTONE with thin (<10 cm) to thick (30 cm) interlayered partly lithified PACKSTONE intervals. Fine-grained, light gray to light brownish gray. Planktic foraminifer are abundant and benthic foraminifera, bioclasts and organic matter are common. Aggregate grains/intraclasts are present to common and up to 5 mm. Contacts are gradational and represent by changes in color and degrees of lithification. Minor lithology: None. Remarks: Mottled due to bioturbation.



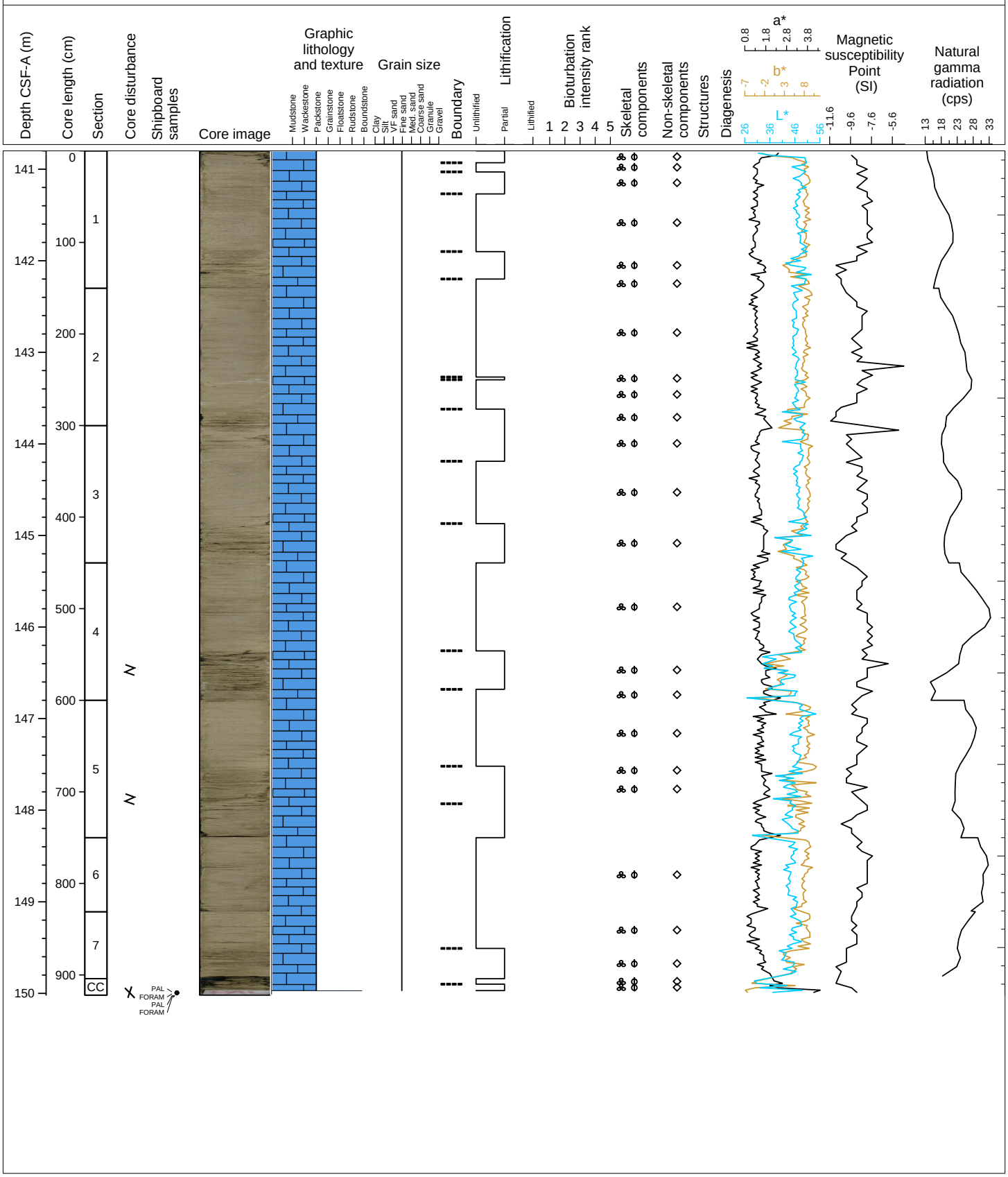
Hole 359-U1471C Core 15H, Interval 131.3-140.21 m (CSF-A)

Major lithology: Unlithified planktic foraminifera-rich PACKSTONE with thin (<10 cm) to thick (30 cm) interlayered partly lithified PACKSTONE intervals. Fine-grained, light brownish gray. Planktic foraminifer are abundant and benthic foraminifera, bioclasts and organic matter are common. Echinoid spines, sponge spicules, fish remains are and yellow/brown stained lithoclasts are few. Aggregate grains/intraclasts are present to common. Contacts are gradational and represent by changes in degrees of lithification. Minor lithology: None. Remarks: Mottled due to bioturbation.



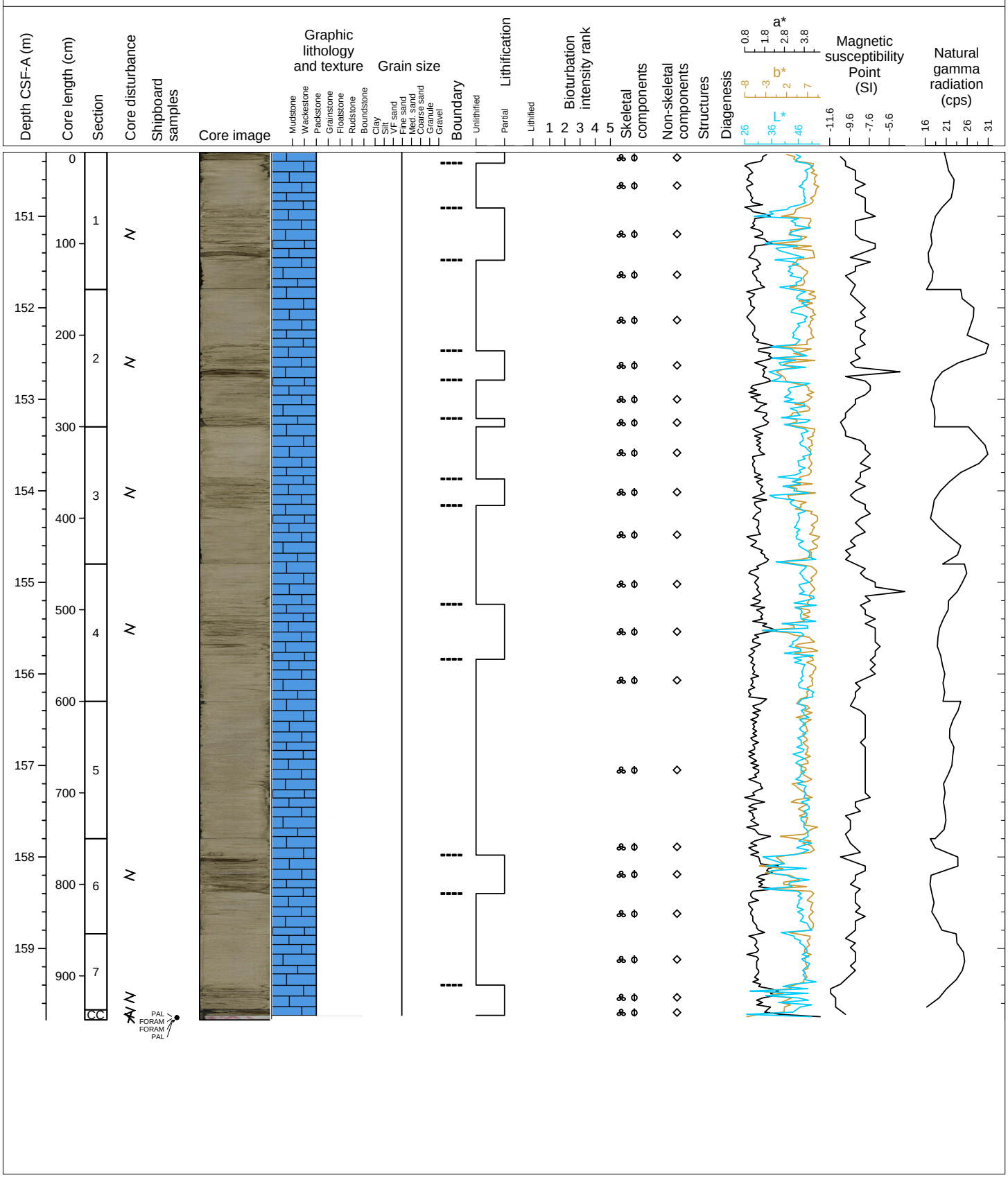
Hole 359-U1471C Core 16H, Interval 140.8-150.02 m (CSF-A)

Major lithology: Unlithified planktic foraminifera-rich PACKSTONE with thin (<10 cm) to thick (30 cm) interlayered partly lithified PACKSTONE intervals. Fine-grained, light brownish gray. Planktic foraminifer are abundant and benthic foraminifera, bioclasts and organic matter are common. Mollusk fragments are present. Aggregate grains/intraclasts are present to common. Bioturbation is complete with burros often lithified. Contacts are gradational and represent by changes in degrees of lithification. Minor lithology: None. Remarks: Mottled due to bioturbation and burrows more lithified.



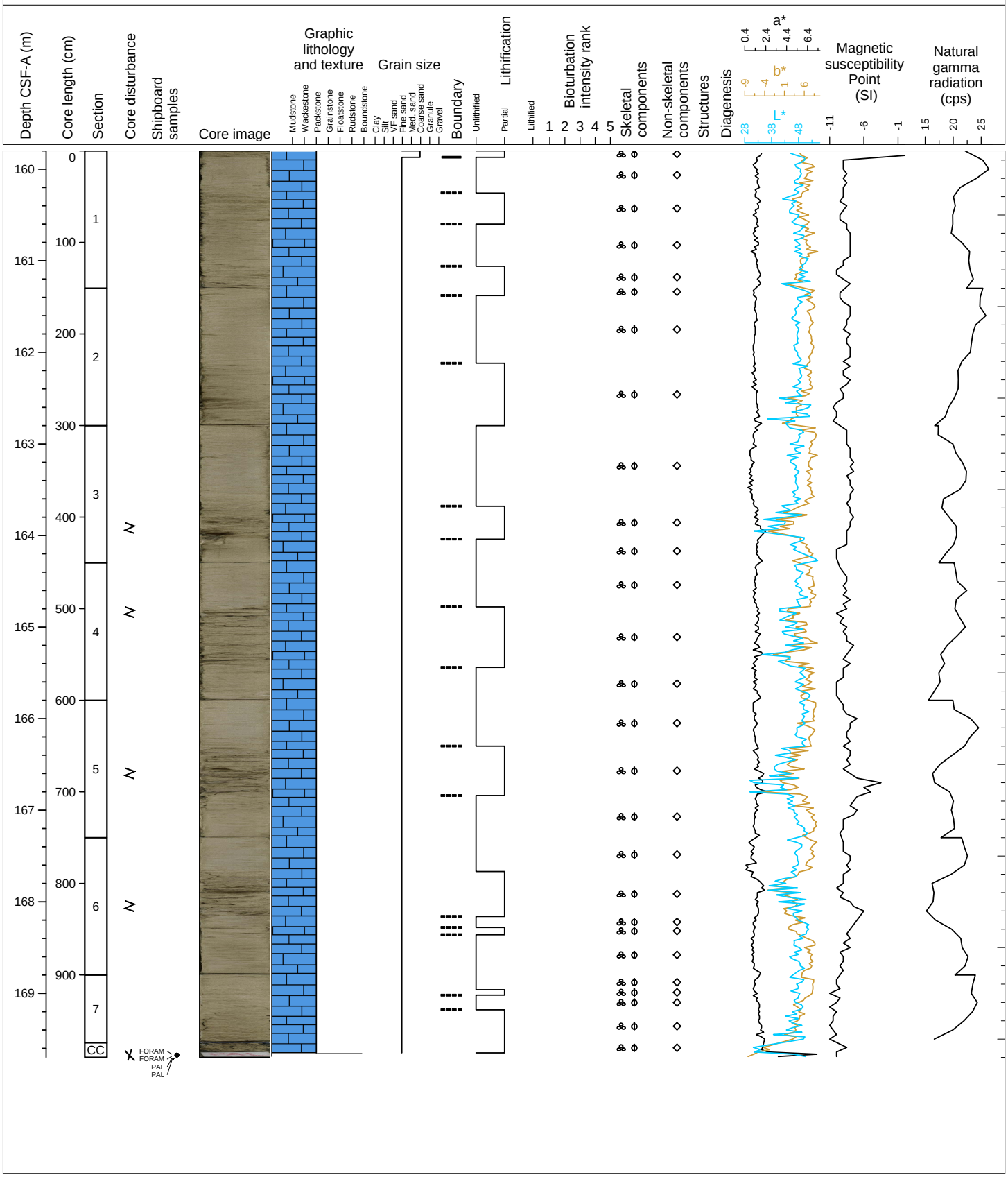
Hole 359-U1471C Core 17H, Interval 150.3-159.78 m (CSF-A)

Major lithology: Unlithified planktic foraminifera-rich PACKSTONE with thin (<10 cm) to thick (30 cm) interlayered partly lithified PACKSTONE intervals. Fine- to very fine-grained, light brownish gray. Planktic foraminifer are abundant and benthic foraminifera, bioclasts and organic matter are present. Aggregate grains/intraclasts are present to common and rare otoliths. Bioturbation is complete. Contacts are gradational and represent by changes in degrees of lithification. Minor lithology: None. Remarks: Mottled due to bioturbation and burrows more lithified.



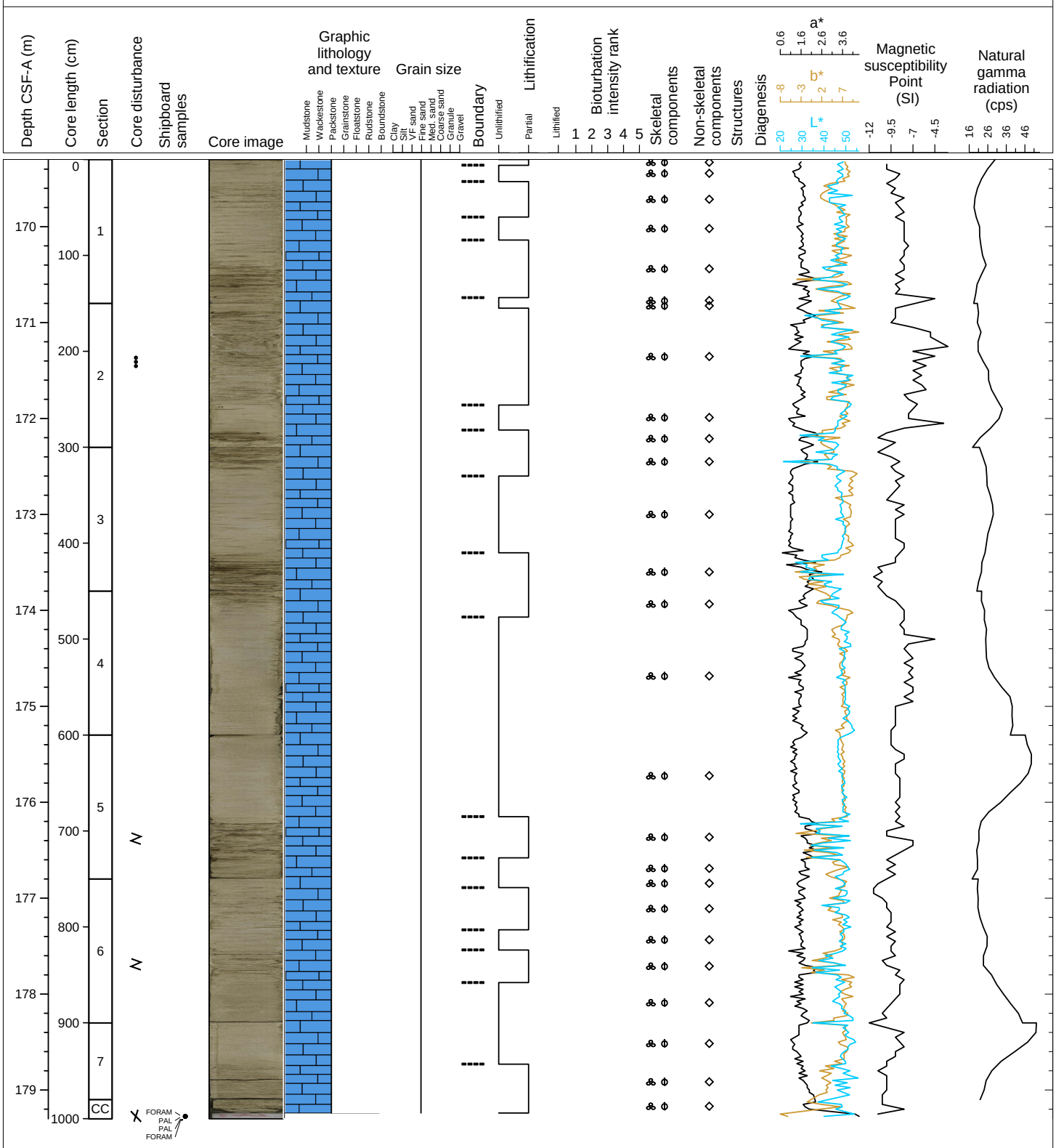
Hole 359-U1471C Core 18H, Interval 159.8-169.7 m (CSF-A)

Major lithology: Unlithified planktic foraminifera-rich PACKSTONE with thin (<10 cm) to thick (30 cm) interlayered partly lithified PACKSTONE intervals. Fine- to very fine-grained, light brownish gray. Planktic foraminifer are abundant and benthic foraminifera, bioclasts and organic matter are present. Aggregate grains/intraclasts are present to common and rare otoliths. Bioturbation is complete. Contacts are gradational and represent by changes in degrees of lithification. Minor lithology: None. Remarks: Mottled due to bioturbation and burrows more lithified.



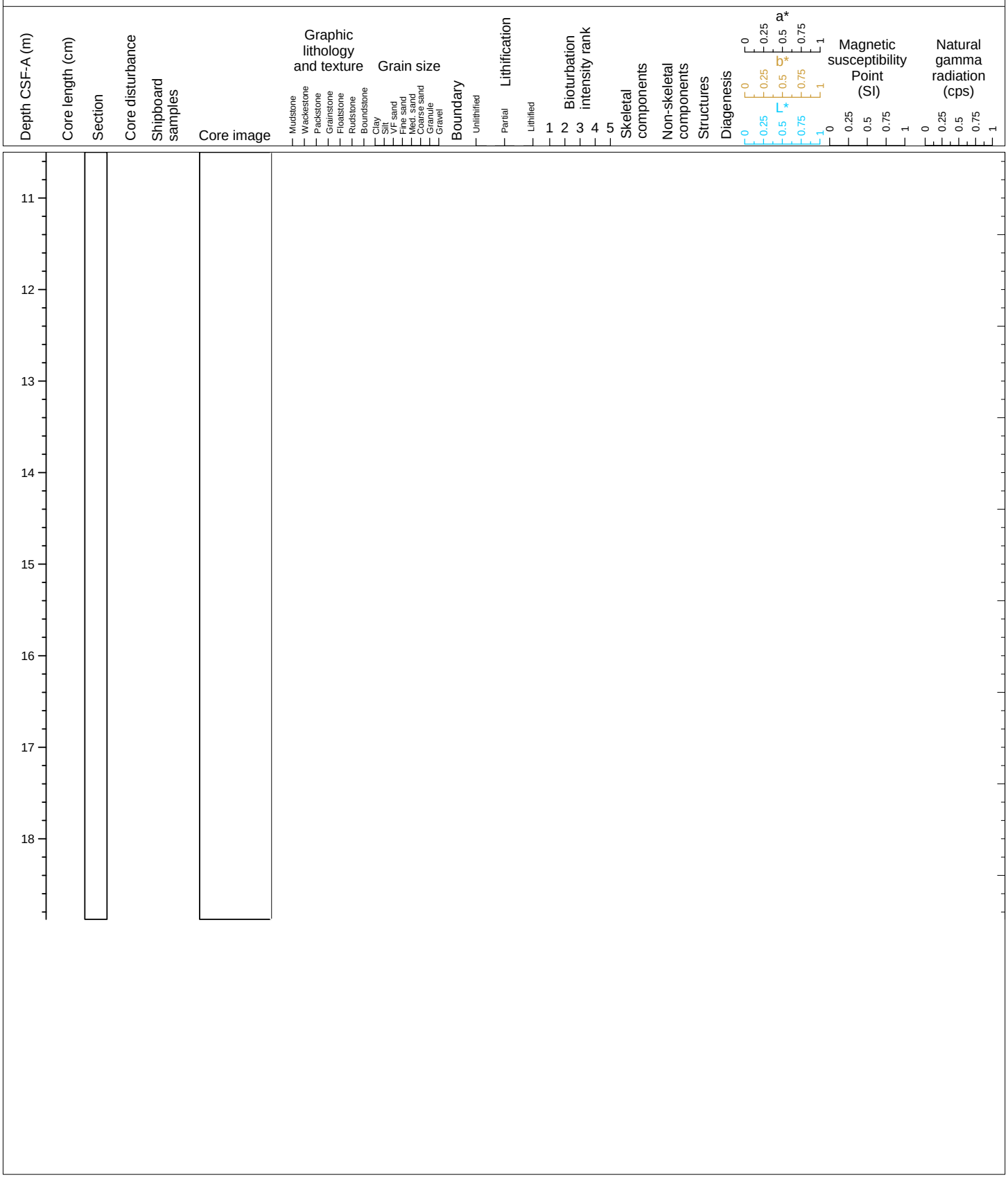
Hole 359-U1471C Core 19H, Interval 169.3-179.3 m (CSF-A)

Major lithology: Unlithified planktic foraminifera-rich PACKSTONE with thin (<10 cm) to thick (30 cm) interlayered partly lithified PACKSTONE intervals. Fine- to very fine-grained, light brownish gray. Planktic foraminifer are abundant and benthic foraminifera, bioclasts and organic matter are present. Aggregate grains/intraclasts are present to common and rare otoliths. Bioturbation is complete. Contacts are gradational and represent by changes in degrees of lithification. Minor lithology: None. Remarks: Mottled due to bioturbation and burrows more lithified.



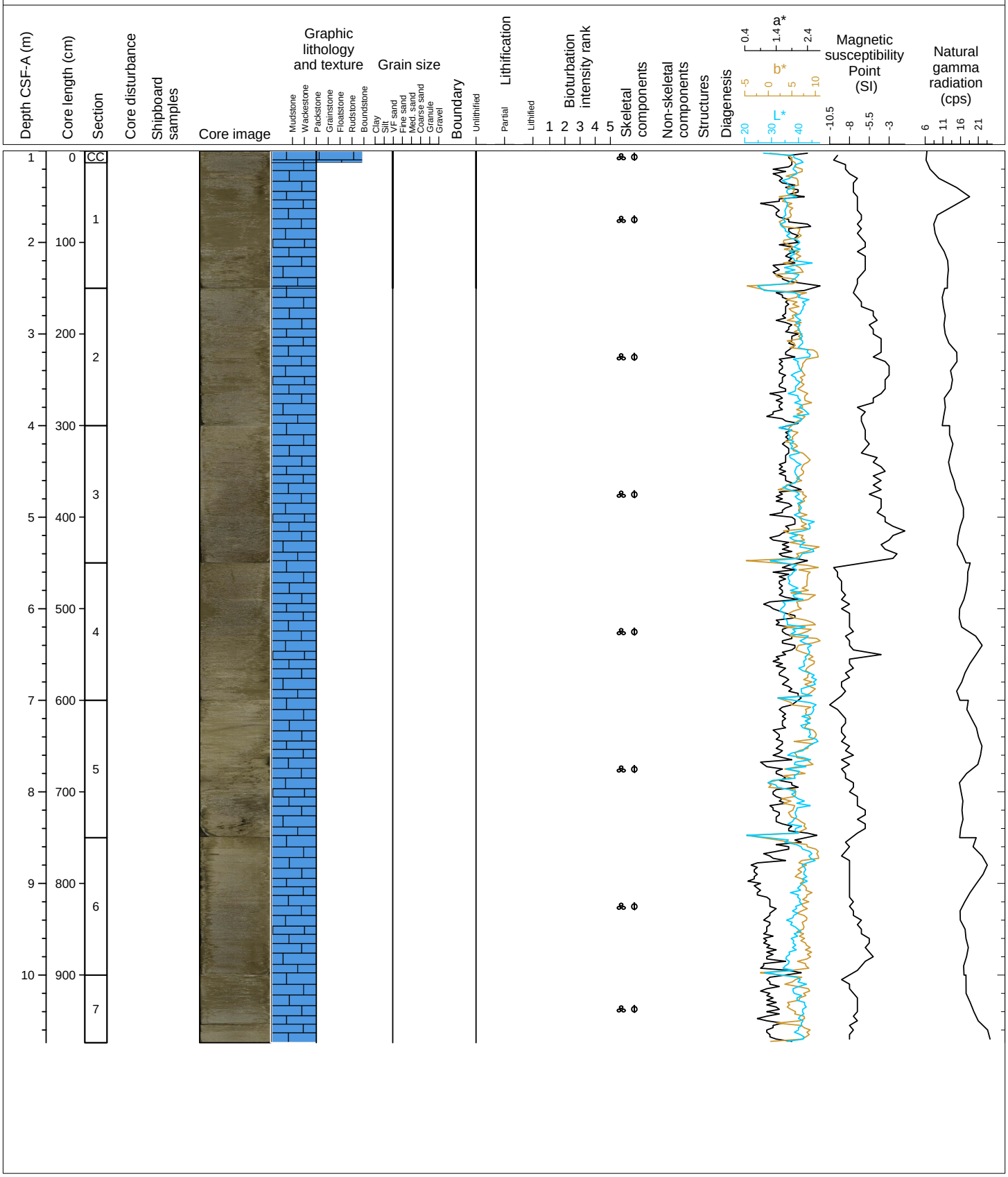
Hole 359-U1471D Core 11, Interval 0.0-0.0 m (CSF-A)

DRILLED INTERVAL



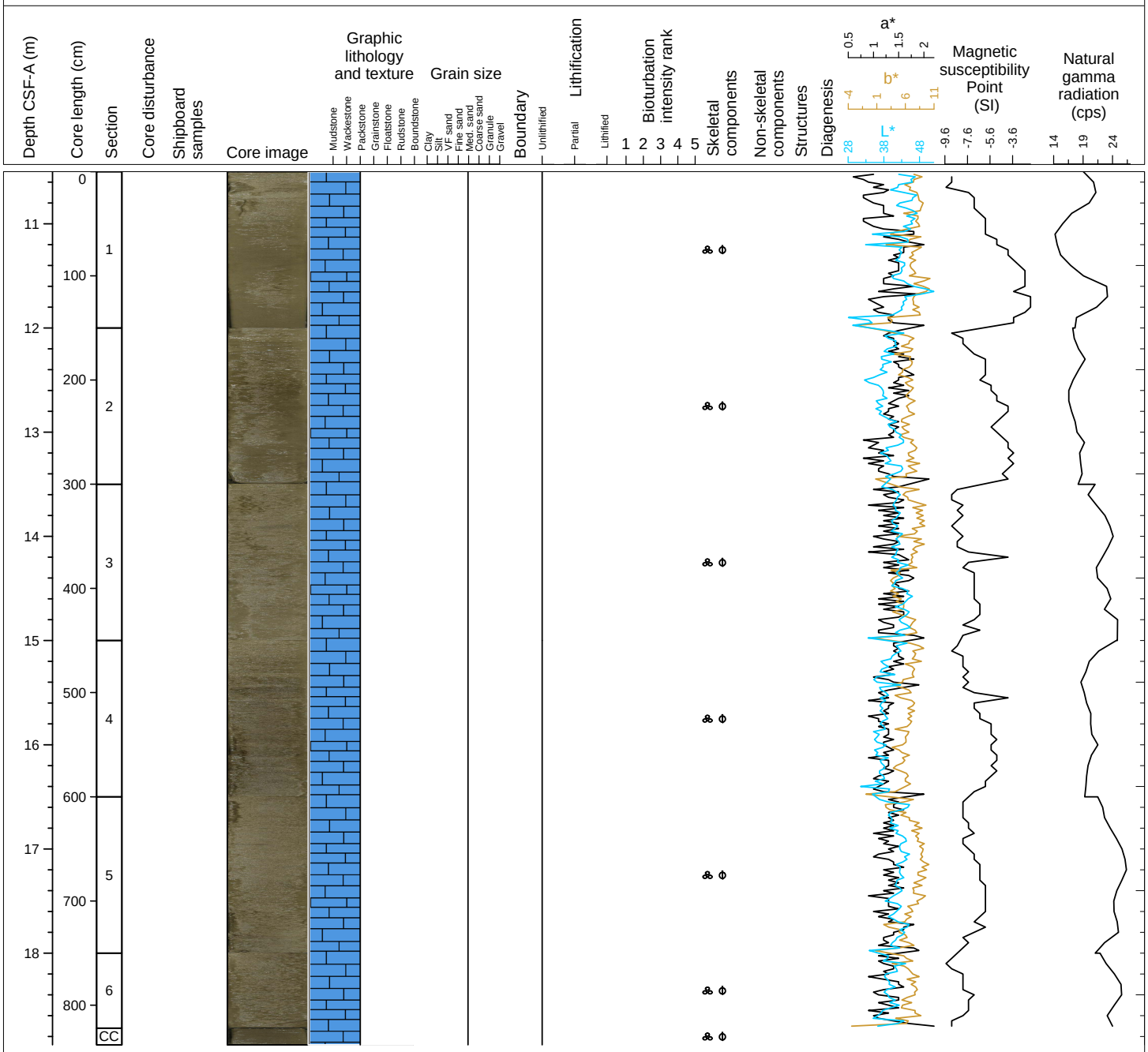
Hole 359-U1471D Core 2H, Interval 1.0-10.74 m (CSF-A)

Major lithology: Planktic foraminifera-rich PACKSTONE Fine-grained, light brownish gray. Planktic foraminifera are abundant. Benthic foraminifera, occasionally otoliths are presents. Contacts are gradational and represent by changes in color. Minor lithology: None. Remarks: mottling is present.



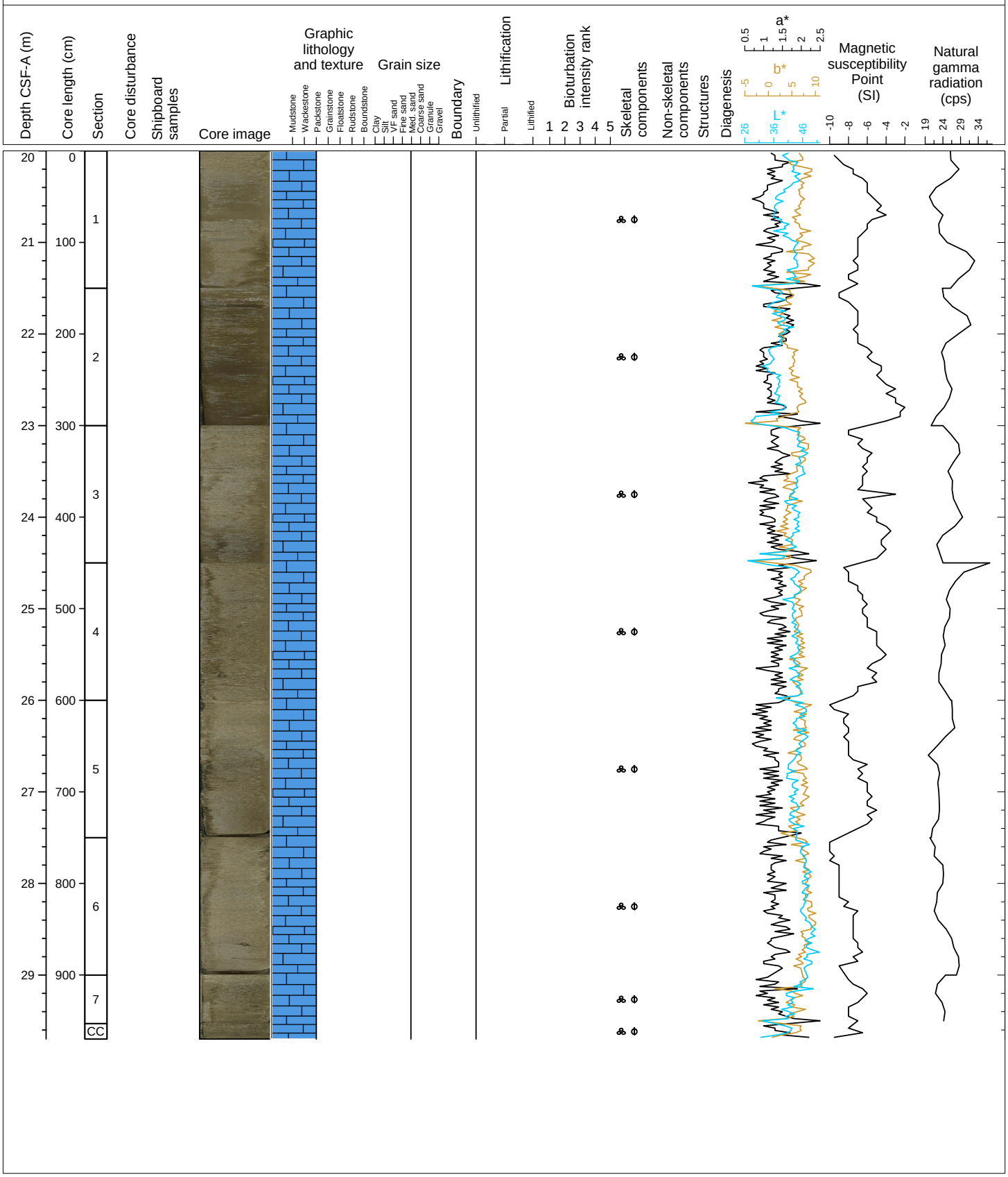
Hole 359-U1471D Core 3H, Interval 10.5-18.88 m (CSF-A)

Major lithology: Planktic foraminifera-rich PACKSTONE Fine-grained, light brownish gray. Planktic foraminifera are abundant. Benthic foraminifera, occasionally otoliths are presents. Contacts are gradational and represent by changes in color. Minor lithology: None. Remarks: mottling is present.



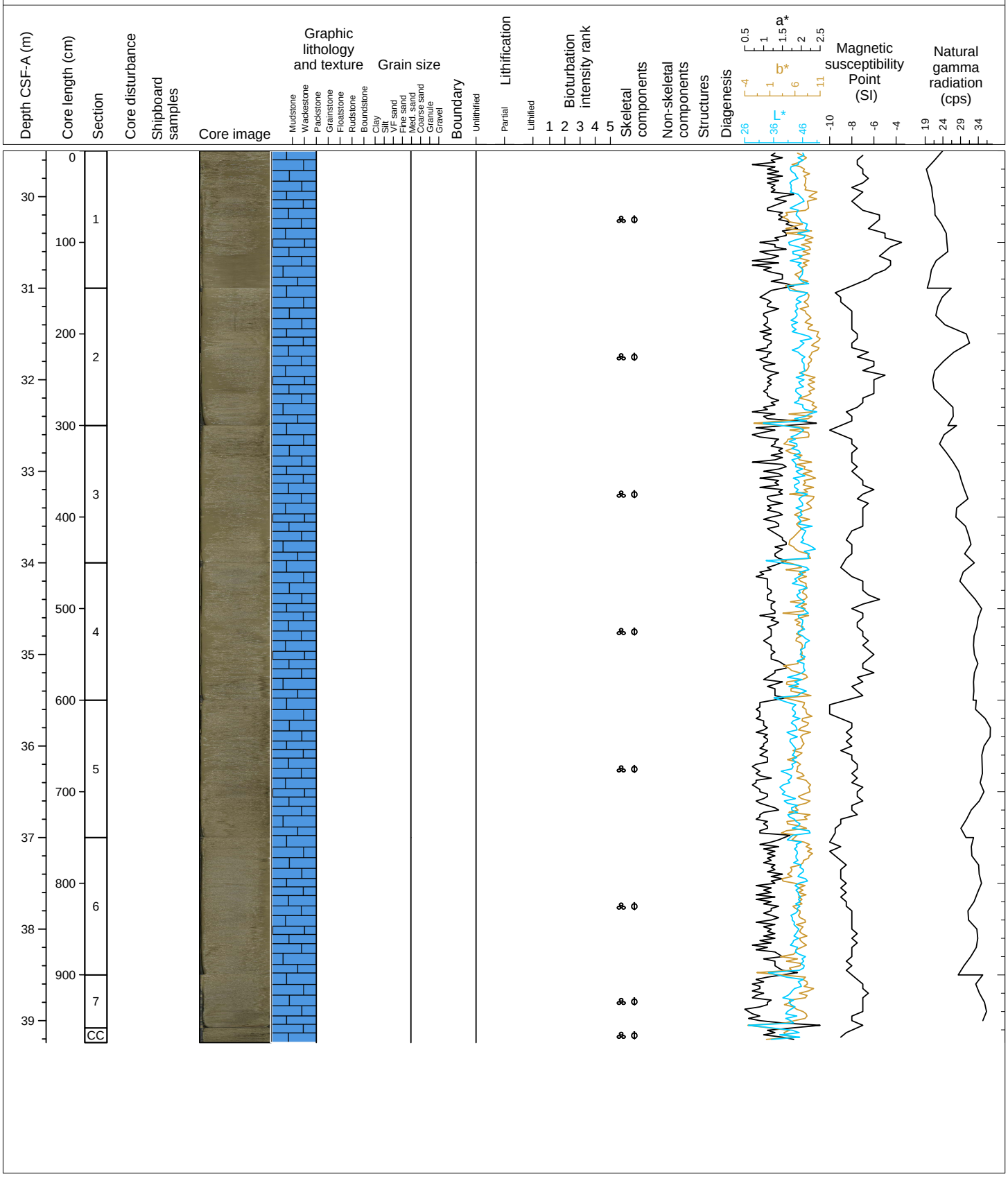
Hole 359-U1471D Core 4H, Interval 20.0-29.7 m (CSF-A)

Major lithology: Planktic foraminifera-rich PACKSTONE medium-grained, light brownish gray. Planktic foraminifera are abundant. Benthic foraminifera, occasionally pteropods are presents. Contacts are gradational and represent by changes in color. Minor lithology: None. Remarks: mottling is present.



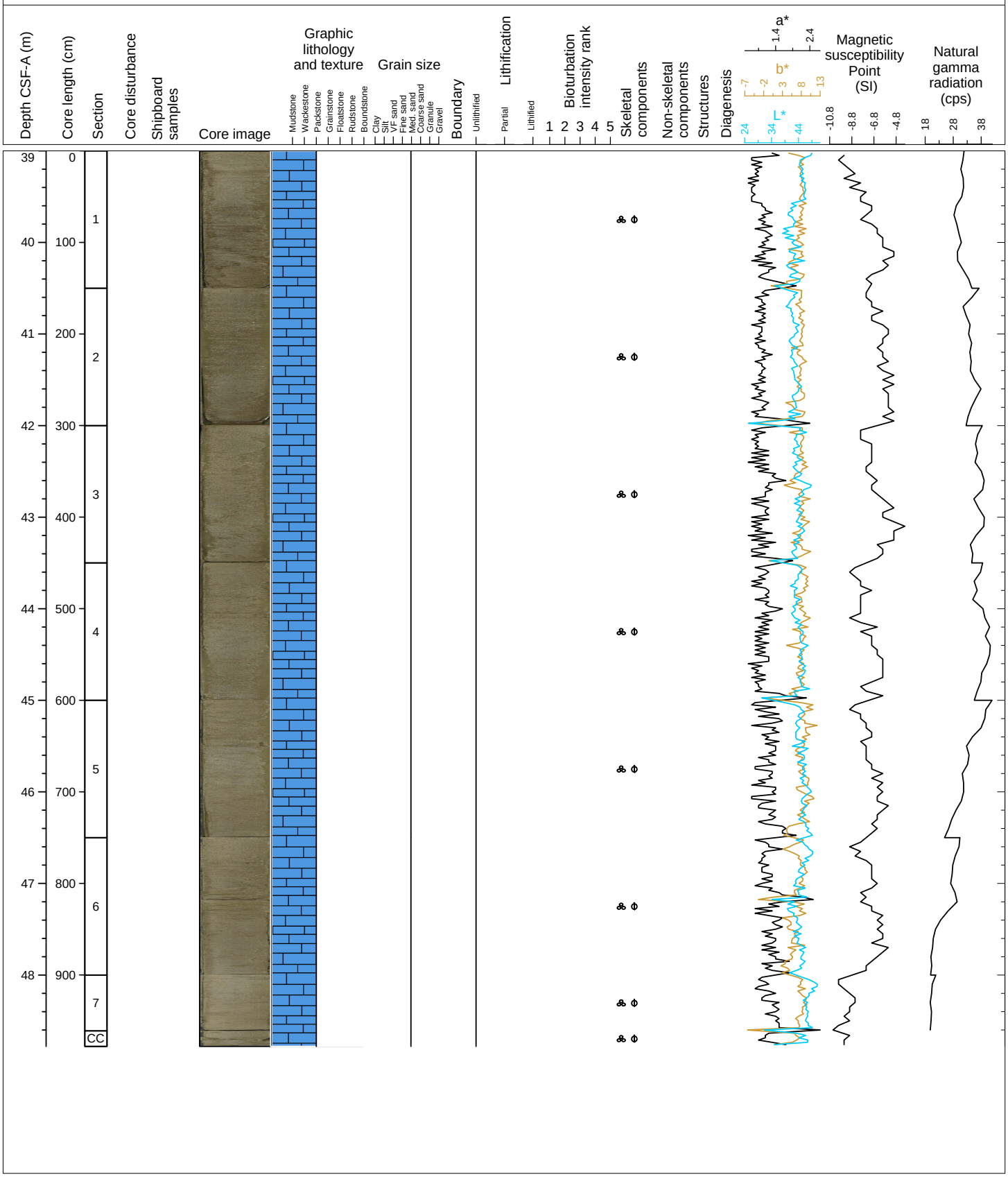
Hole 359-U1471D Core 5H, Interval 29.5-39.24 m (CSF-A)

Major lithology: Planktic foraminifera-rich PACKSTONE medium -grained, light brownish gray. Planktic foraminifera are abundant. Benthic foraminifera, occasionally pteropods are presents. Contacts are gradational and represent by changes in color. Minor lithology: None. Remarks: None



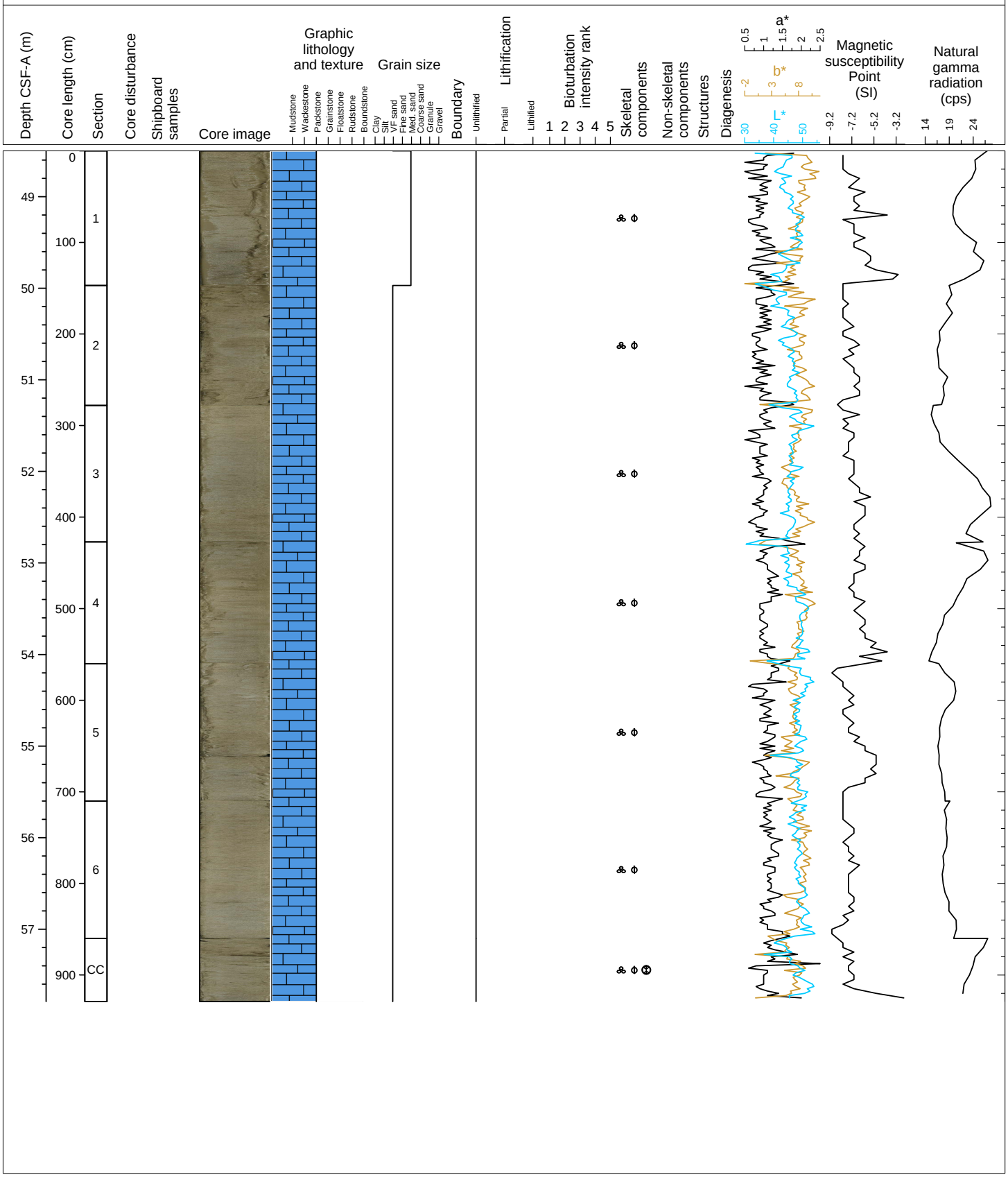
Hole 359-U1471D Core 6H, Interval 39.0-48.78 m (CSF-A)

Major lithology: Planktic foraminifera-rich PACKSTONE medium-grained, light brownish gray. Planktic foraminifera are abundant. Benthic foraminifera, occasionally otoliths are presents. Contacts are gradational and represent by changes in color. Minor lithology: None. Remarks: Mottling



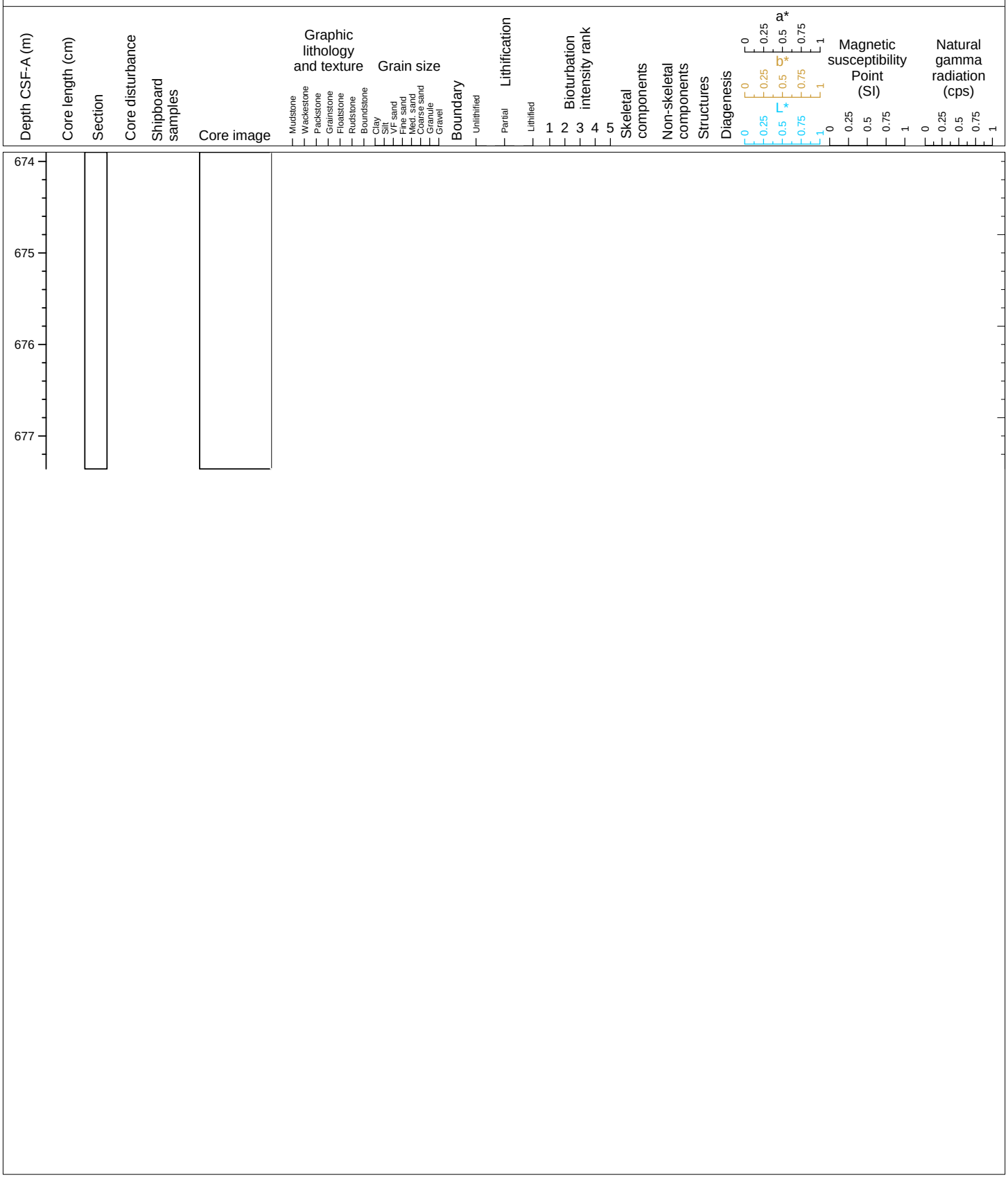
Hole 359-U1471D Core 7H, Interval 48.5-57.79 m (CSF-A)

Major lithology: Planktic foraminifera-rich PACKSTONE Fine-grained, light brownish gray. Planktic foraminifera are abundant. Benthic foraminifera, occasionally otoliths are presents. Contacts are gradational and represent by changes in color. Minor lithology: None. Remarks: Cold-water coral.



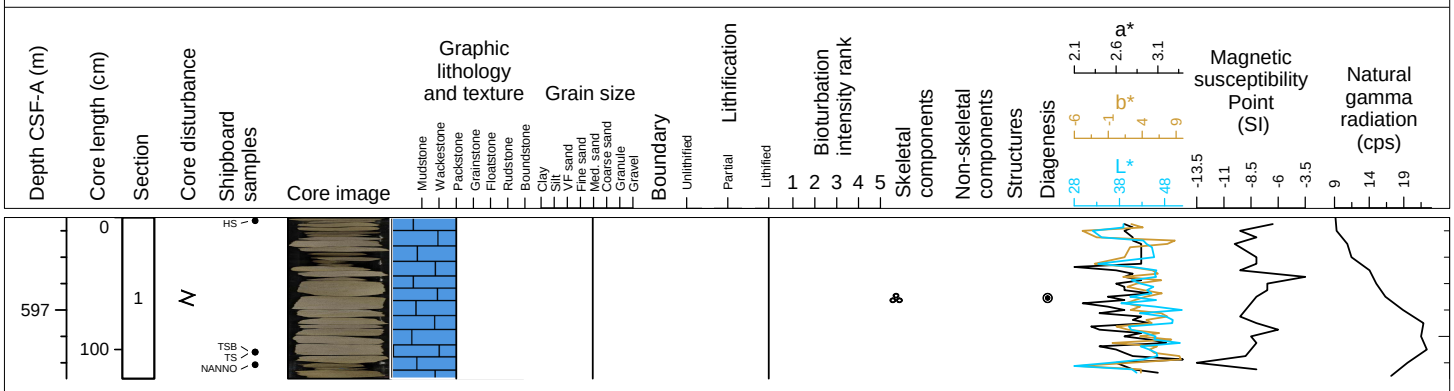
Hole 359-U1471E Core 11, Interval 0.0-0.0 m (CSF-A)

DRILLED INTERVAL



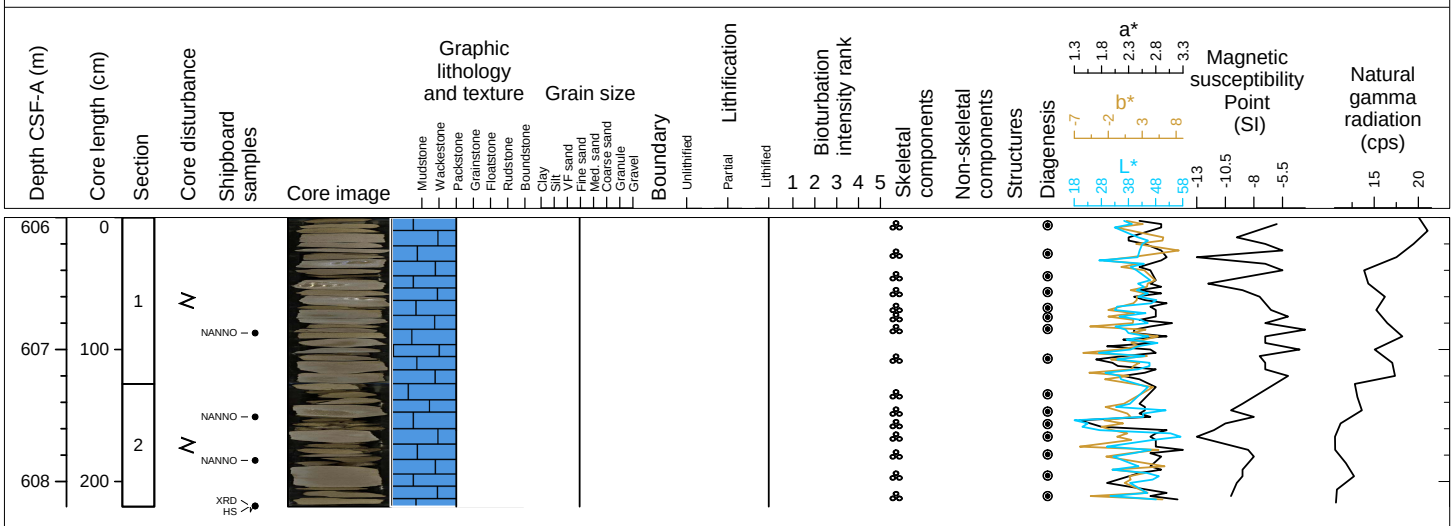
Hole 359-U1471E Core 2R, Interval 596.3-597.52 m (CSF-A)

Major lithology: Planktic foraminifera-rich PACKSTONE Fine-grained, light brownish gray. Planktic foraminifera are abundant. Benthic foraminifera, occasionally otoliths are presents. Contacts are gradational and represent by changes in color. Minor lithology: None. Remarks: mottling is present.



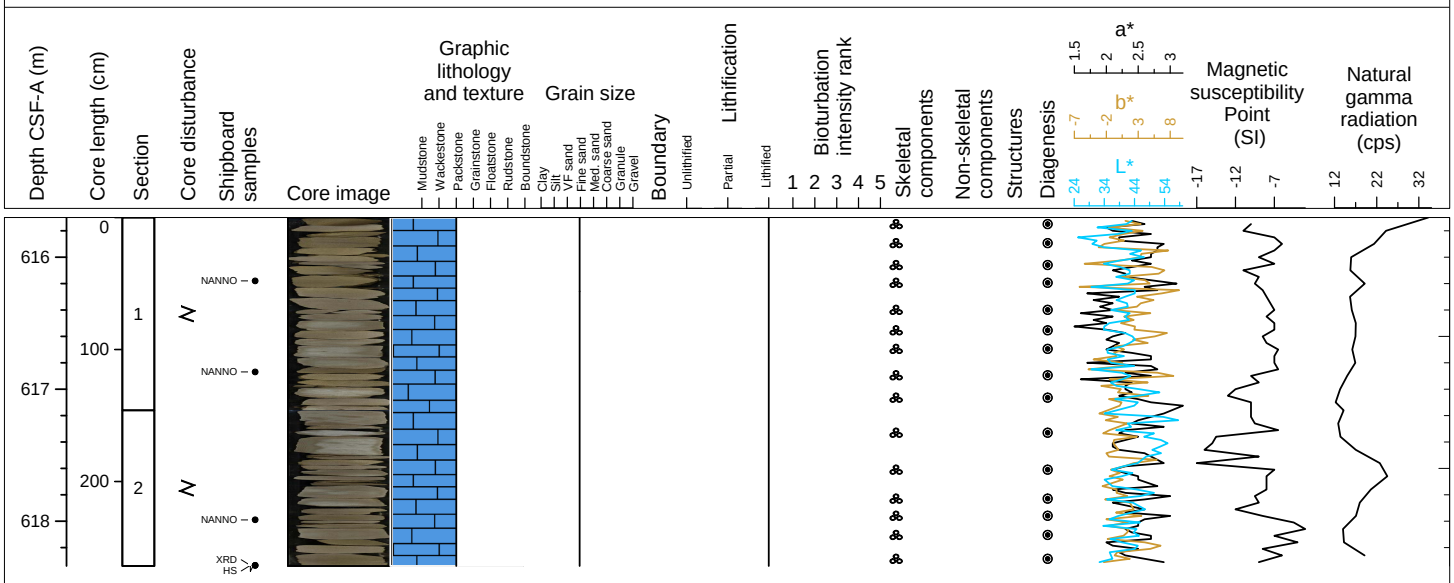
Hole 359-U1471E Core 3R, Interval 606.0-608.19 m (CSF-A)

Major lithology: Planktic foraminifera-rich PACKSTONE medium-grained, light brownish gray. Planktic foraminifera are abundant. Benthic foraminifera, occasionally pteropods are presents. Contacts are gradational and represent by changes in color. Minor lithology: None. Remarks: mottling is present.



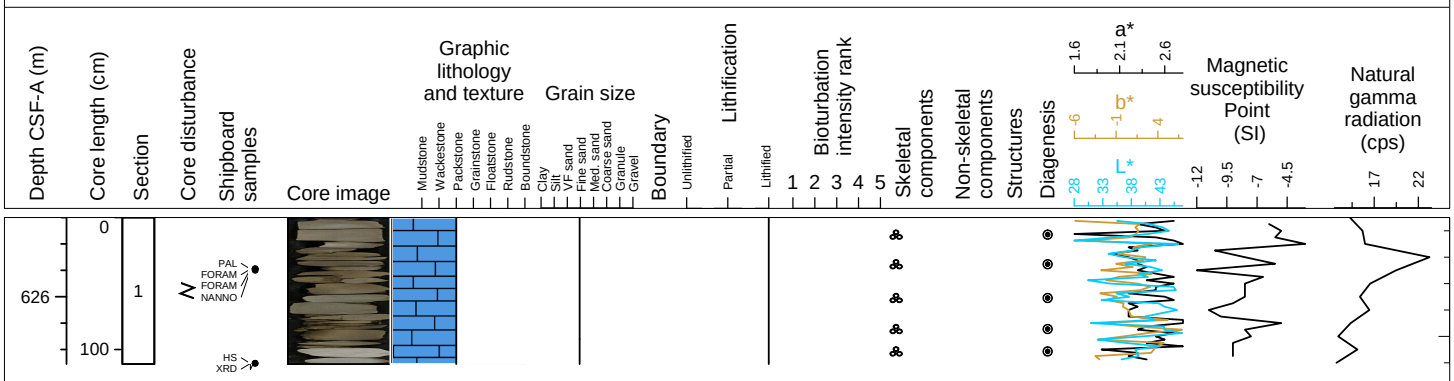
Hole 359-U1471E Core 4R, Interval 615.7-618.34 m (CSF-A)

Major lithology: Planktic foraminifera-rich PACKSTONE medium -grained, light brownish gray. Planktic foraminifera are abundant. Benthic foraminifera, occasionally pteropods are presents. Contacts are gradational and represent by changes in color. Minor lithology: None. Remarks: None



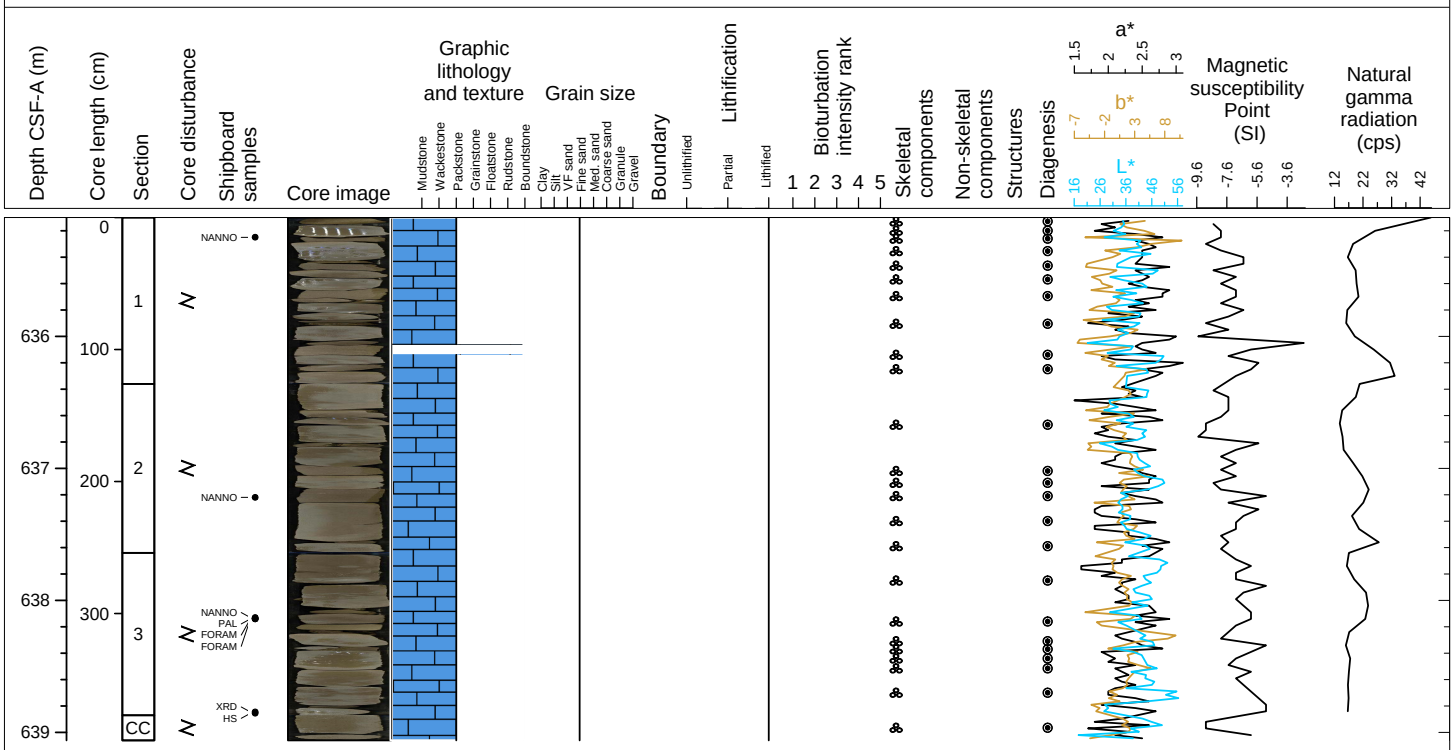
Hole 359-U1471E Core 5R, Interval 625.4-626.51 m (CSF-A)

Major lithology: Planktic foraminifera-rich PACKSTONE medium-grained, light brownish gray. Planktic foraminifera are abundant. Benthic foraminifera, occasionally otoliths are presents. Contacts are gradational and represent by changes in color. Minor lithology: None. Remarks: Mottling



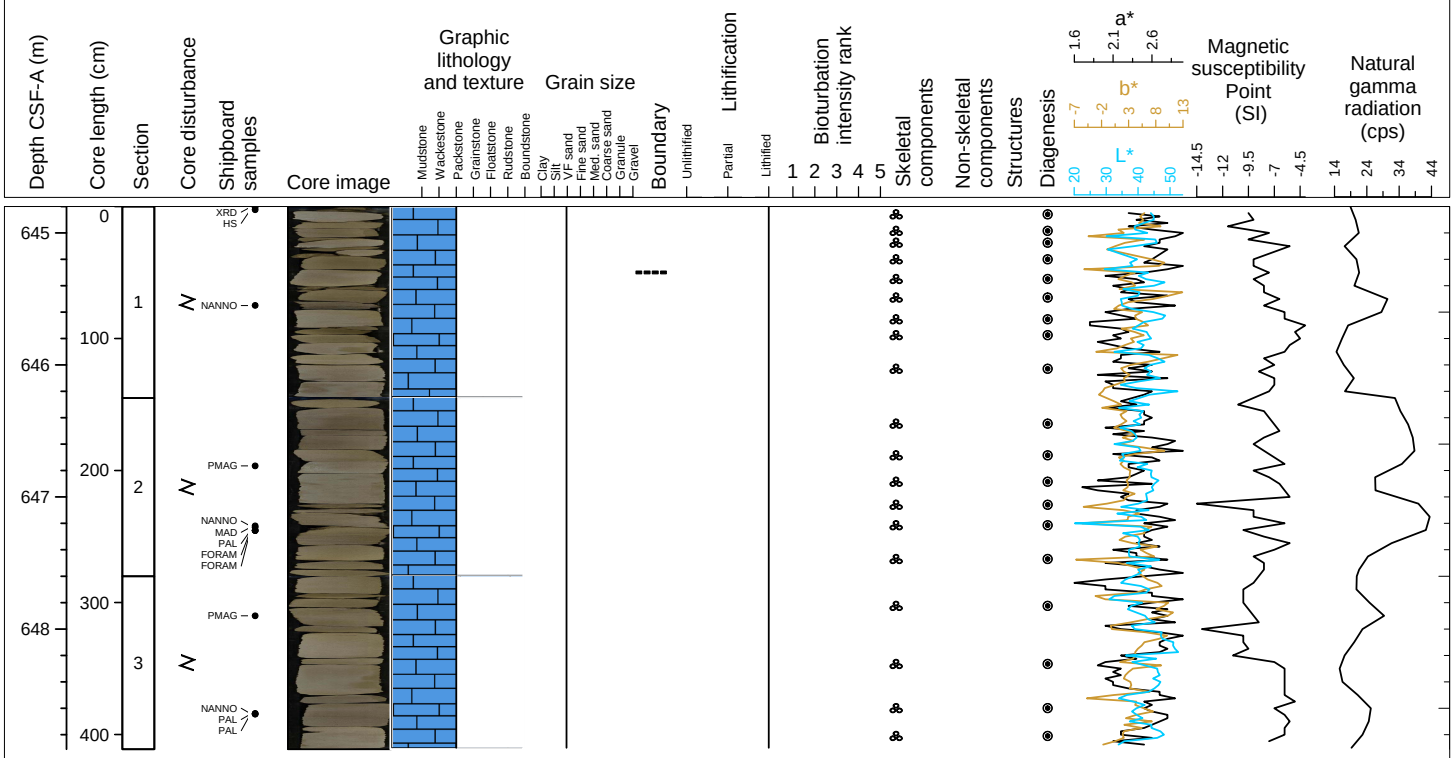
Hole 359-U1471E Core 6R, Interval 635.1-639.06 m (CSF-A)

Major lithology: Planktic foraminifera-rich PACKSTONE Fine-grained, light brownish gray. Planktic foraminifera are abundant. Benthic foraminifera, occasionally otoliths are presents. Contacts are gradational and represent by changes in color. Minor lithology: None. Remarks: Cold-water coral.



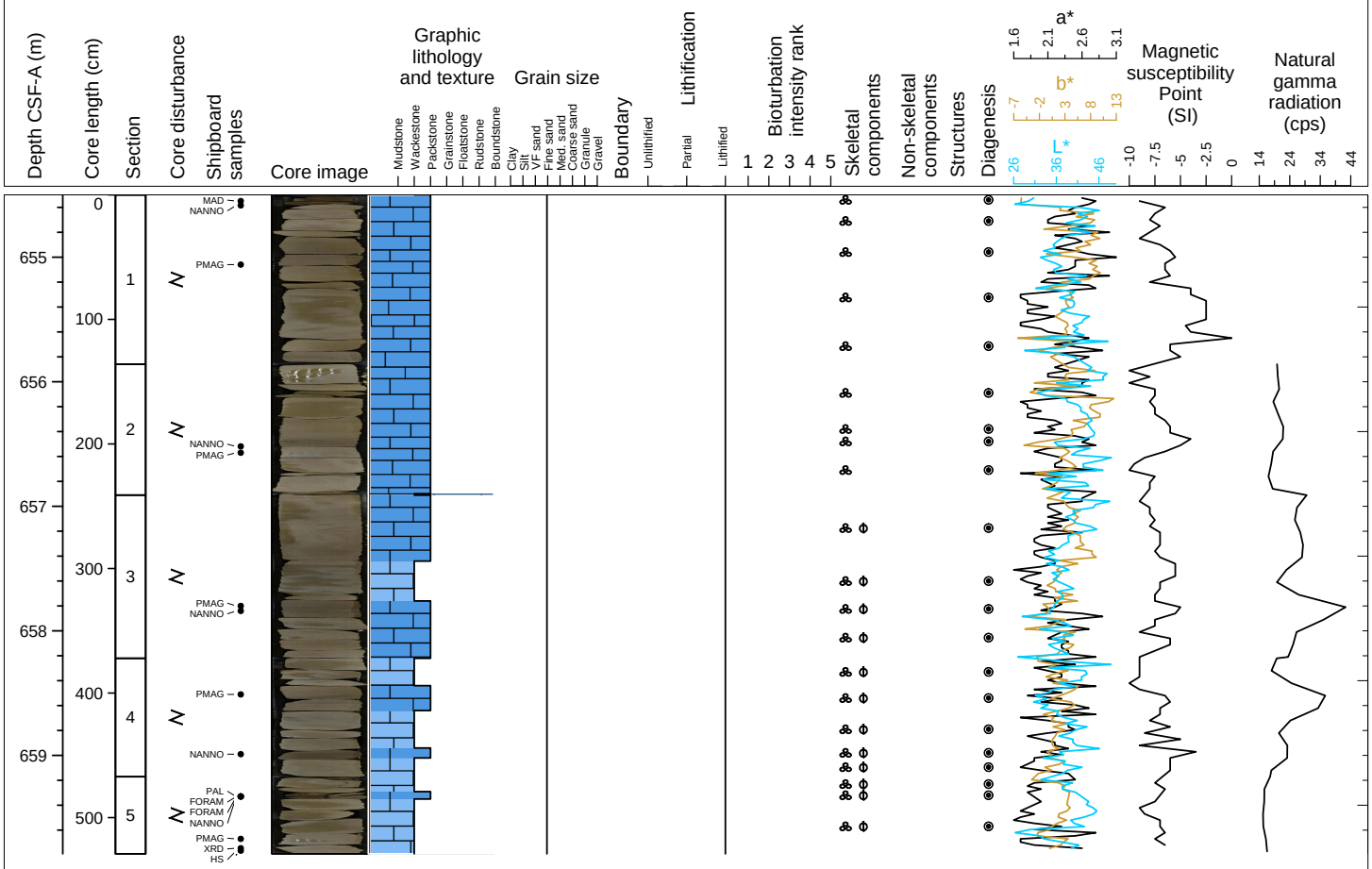
Hole 359-U1471E Core 7R, Interval 644.8-648.91 m (CSF-A)

Major lithology: Planktic foraminifera-rich interlayered PACKSTONE and WACKESTONE. Very fine-grained, planktic foraminifera are abundant and benthic foraminifera are presents. Interlayered intervals are commonly thin (1-10 cm) to medium (10-30 cm). Components often present as molds. Bioturbation is complete with burrows commonly infilled with coarser-grained packstone. PACKSTONE intervals are poorly to moderately laminated, are grayish brown to dark grayish brown (2.5Y 5/2 to 2.5Y 4/2). Common organic matter, celestine fragments and compacted foraminifera and burrows defining the laminations. WACKESTONE intervals are massive, more cemented than the packstone, light brownish gray (2.5Y 6/2). Organic matter is present but less than packstone intervals. Components show no compaction and random celestine fragments and nodules are present. Contacts are gradational and represent by changes in color and texture. Minor lithology: None. Remarks: Fractures are present within the wackestone intervals and infilled with celestine.



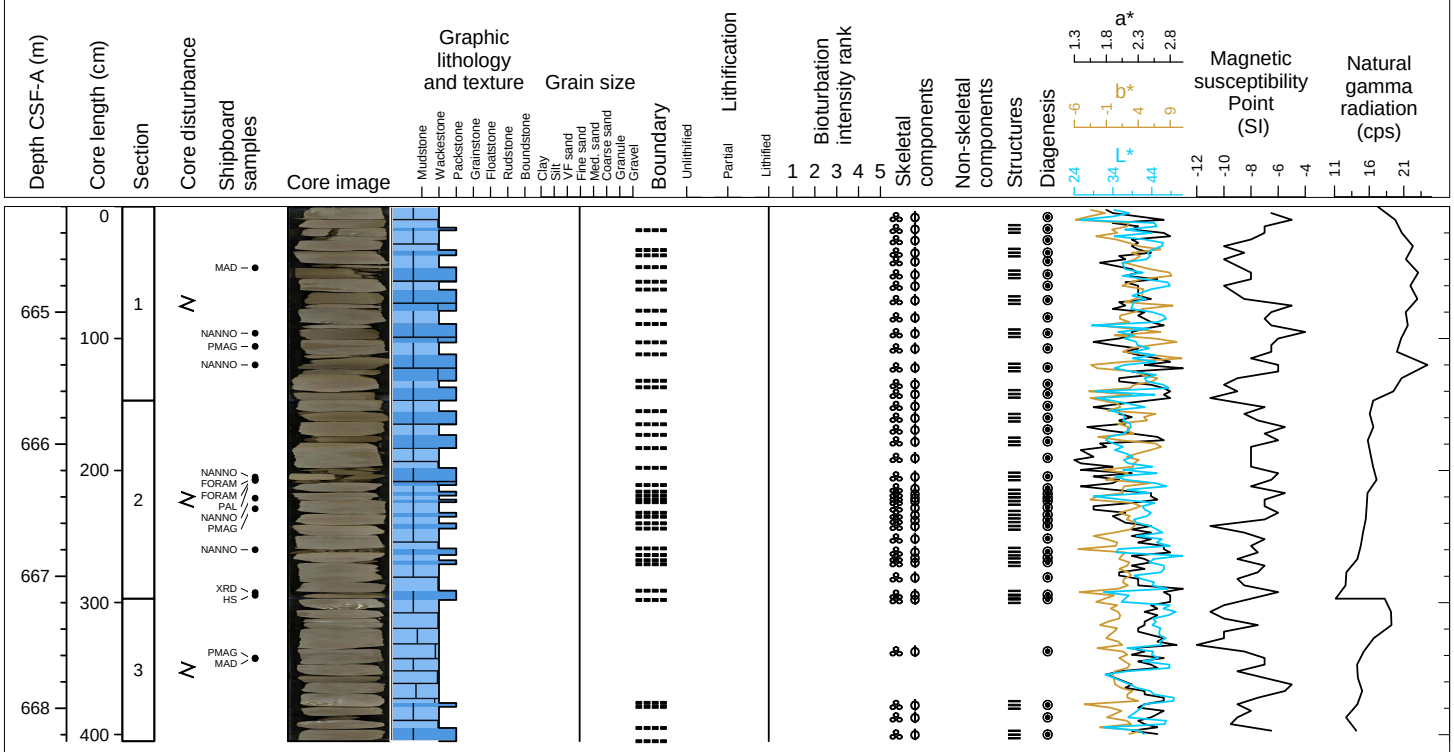
Hole 359-U1471E Core 8R, Interval 654.5-659.79 m (CSF-A)

Major lithology: Planktic foraminifera-rich interlayered PACKSTONE and WACKESTONE. Very fine-grained, planktic foraminifera are abundant and benthic foraminifera are presents. Interlayered intervals are commonly thin (1-10 cm) to medium (10-30 cm). Components often present as molds. Bioturbation is complete with burrows commonly infilled with coarser-grained packstone. PACKSTONE intervals are poorly to moderately laminated, are grayish brown to dark grayish brown (2.5Y 5/2 to 2.5Y 4/2). Common organic matter, celestine fragments and compacted foraminifera and burrows defining the laminations. WACKESTONE intervals are massive, more cemented than the packstone, light brownish (2.5Y 6/2). Organic matter is present but less than packstone intervals. Components show no compaction and random celestine fragments and nodules are present. Contacts are gradational and represent by changes in color and texture. Minor lithology: None. Remarks: None.



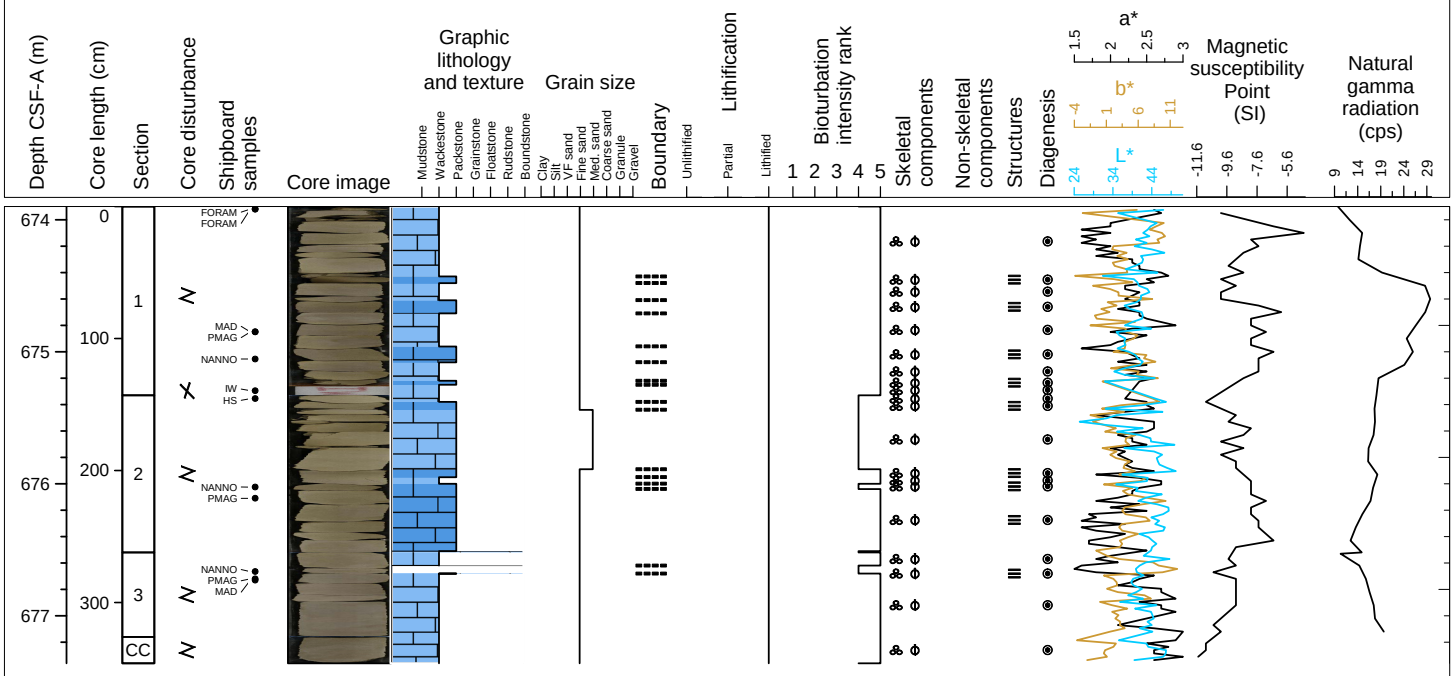
Hole 359-U1471E Core 9R, Interval 664.2-668.25 m (CSF-A)

Major lithology: Planktic foraminifera-rich interlayered PACKSTONE and WACKESTONE. Very fine-grained, planktic foraminifera are abundant and benthic foraminifera are presents. Interlayered intervals are commonly thin (1-10 cm) to medium (10-30 cm). Components often present as molds. Bioturbation is complete with burrows commonly infilled with coarser-grained packstone. PACKSTONE intervals are poorly to moderately laminated, are grayish brown to dark grayish brown (2.5Y 5/2 to 2.5Y 4/2). Common organic matter, celestine fragments and compacted foraminifera and burrows defining the laminations. WACKESTONE intervals are massive, more cemented than the packstone, light brownish gray (2.5Y 6/2). Organic matter is present but less than packstone intervals. Components show no compaction and random celestine fragments and nodules are present. Contacts are gradational and represent by changes in color and texture. Minor lithology: None. Remarks: None.



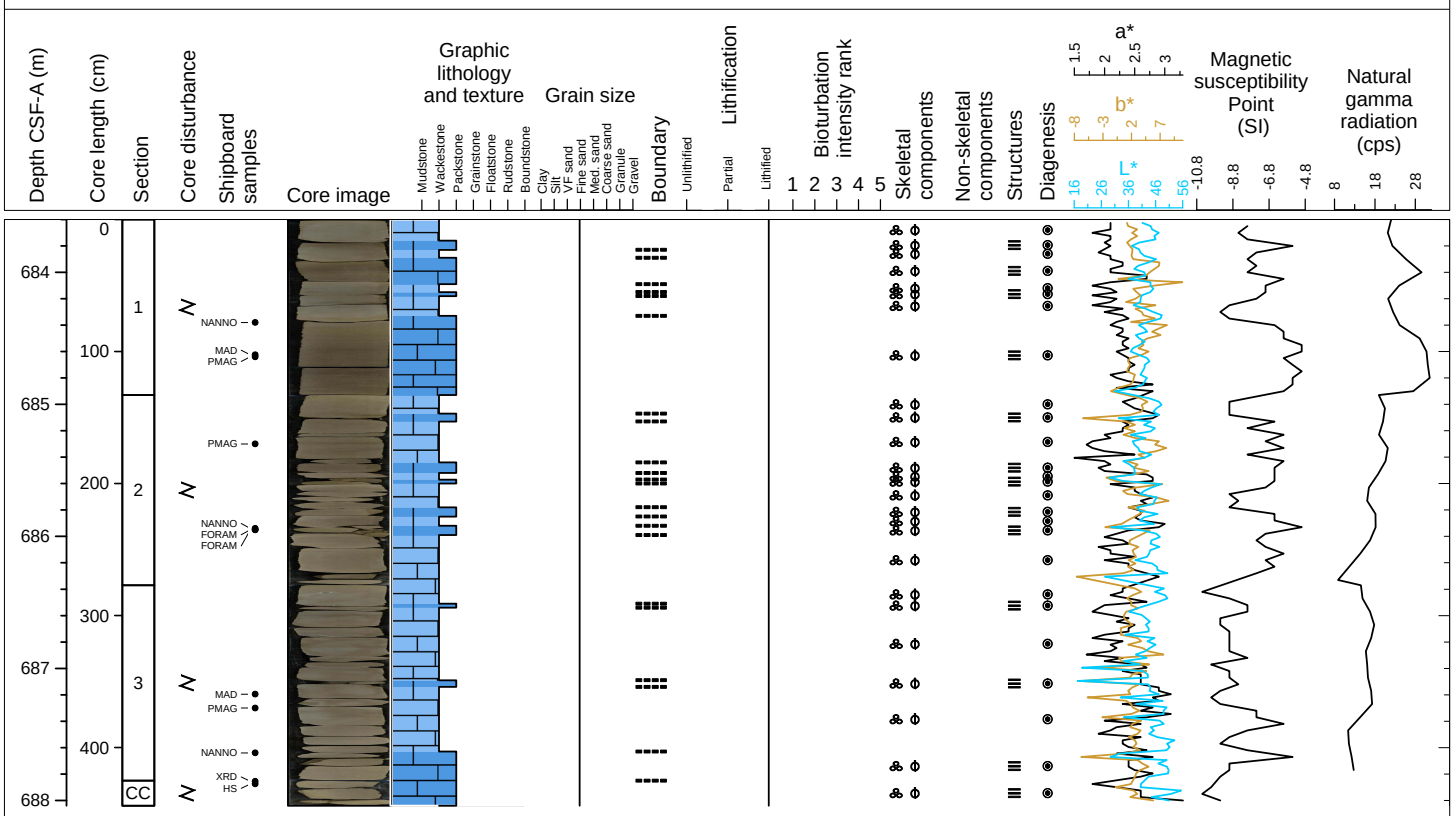
Hole 359-U1471E Core 10R, Interval 673.9-677.36 m (CSF-A)

Major lithology: Planktic foraminifera-rich interlayered PACKSTONE and WACKESTONE. Very fine-grained, planktic foraminifera are abundant and benthic foraminifera are presents. Interlayered intervals are commonly thin (1-10 cm) to medium (10-30 cm). Components often present as molds. Bioturbation is complete with burrows commonly infilled with coarser-grained packstone. PACKSTONE intervals are poorly to moderately laminated, are grayish brown to dark grayish brown (2.5Y 5/2 to 2.5Y 4/2). Common organic matter, celestine fragments and compacted foraminifera and burrows defining the laminations. WACKESTONE intervals are massive, more cemented than the packstone, light brownish gray (2.5Y 6/2). Organic matter is present but less than packstone intervals. Components show no compaction and random celestine fragments and nodules are present. Contacts are gradational and represent by changes in color and texture. Minor lithology: None. Remarks: Fractures are present with celestine infill (10H-2A, 28 - 32 cm and 62 - 66 cm).



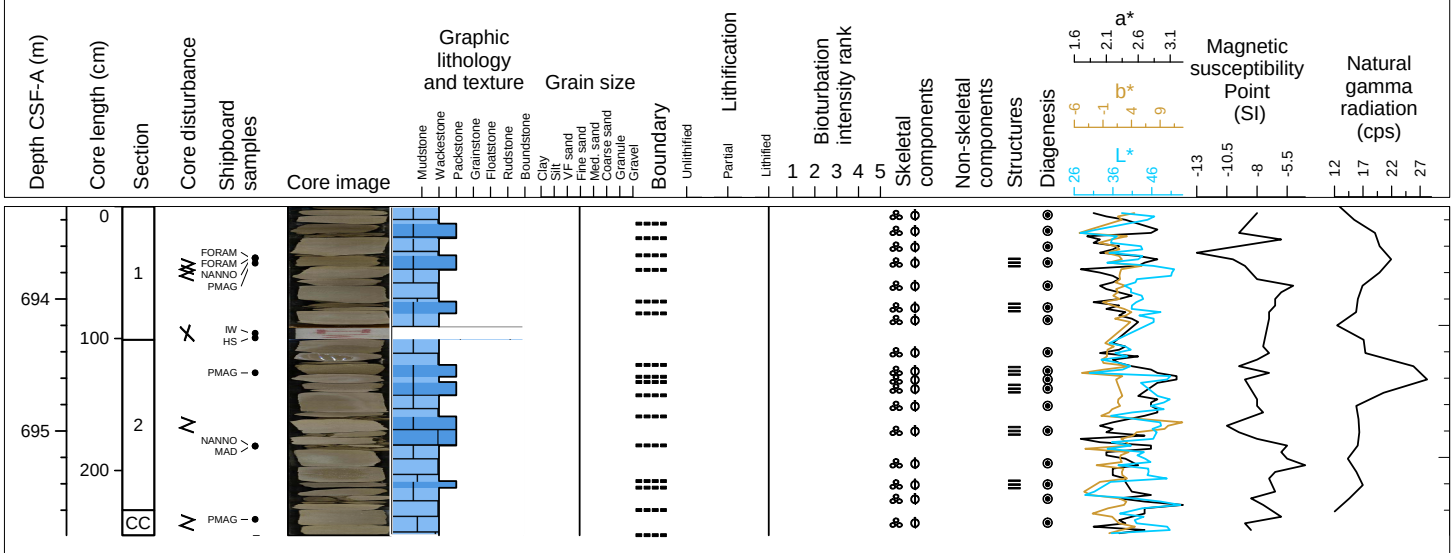
Hole 359-U1471E Core 11R, Interval 683.6-688.04 m (CSF-A)

Major lithology: Planktic foraminifera-rich interlayered PACKSTONE and WACKESTONE. Very fine-grained, planktic foraminifera are abundant and benthic foraminifera are presents. Interlayered intervals are commonly thin (1-10 cm) to medium (10-30 cm). Components often present as molds. Bioturbation is complete with burrows commonly infilled with coarser-grained packstone. PACKSTONE intervals are poorly to moderately laminated, are grayish brown to dark grayish brown (2.5Y 5/2 to 2.5Y 4/2). Common organic matter, celestine fragments and compacted foraminifera and burrows (horsetail structures) defining the laminations. WACKESTONE intervals are massive, more cemented than the packstone, light brownish gray (2.5Y 6/2). Organic matter is present but less than packstone intervals. Components show no compaction and random celestine fragments and nodules are present. Contacts are gradational and represent by changes in color and texture. Minor lithology: None. Remarks: Fractures are present with celestine infill (11R-2A, 20-51 cm). Convolute bedding 11R-2A, 32 - 46 cm.



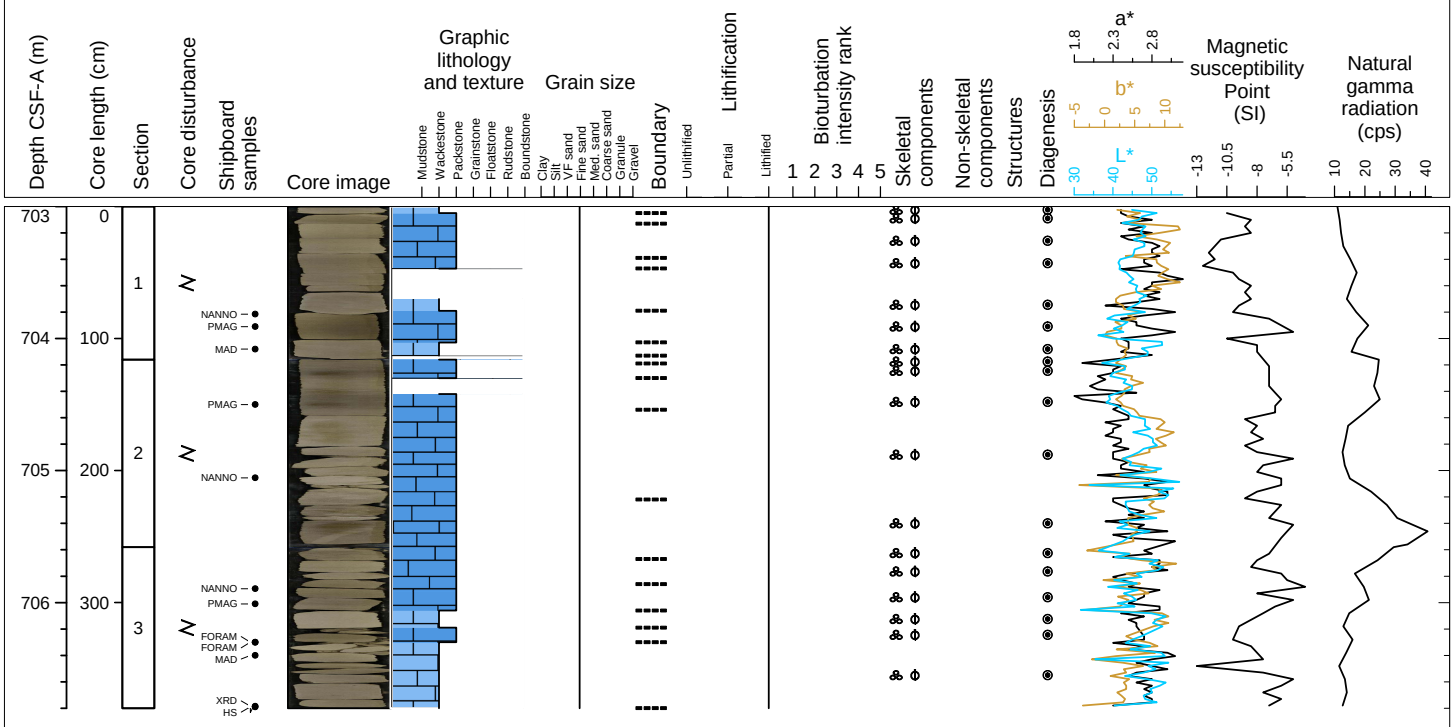
Hole 359-U1471E Core 12R, Interval 693.3-695.79 m (CSF-A)

Major lithology: Planktic foraminifera-rich interlayered PACKSTONE and WACKESTONE. Very fine-grained, planktic foraminifera are abundant and benthic foraminifera are presents. Interlayered intervals are commonly thin (1-10 cm) to medium (10-30 cm). Components often present as molds. Bioturbation is complete with burrows commonly infilled with coarser-grained packstone. PACKSTONE intervals are poorly to moderately laminated, are grayish brown to dark grayish brown (2.5Y 5/2 to 2.5Y 4/2). Common organic matter, celestine fragments and compacted foraminifera and burrows (horsetail structures) defining the laminations. WACKESTONE intervals are massive, more cemented than the packstone, light brownish gray (2.5Y 6/2). Organic matter is present but less than packstone intervals. Components show no compaction and random celestine fragments and nodules are present. Contacts are gradational and represent by changes in color and texture. Minor lithology: None. Remarks: Convolute bedding 12R-1A, 14 - 21 cm.



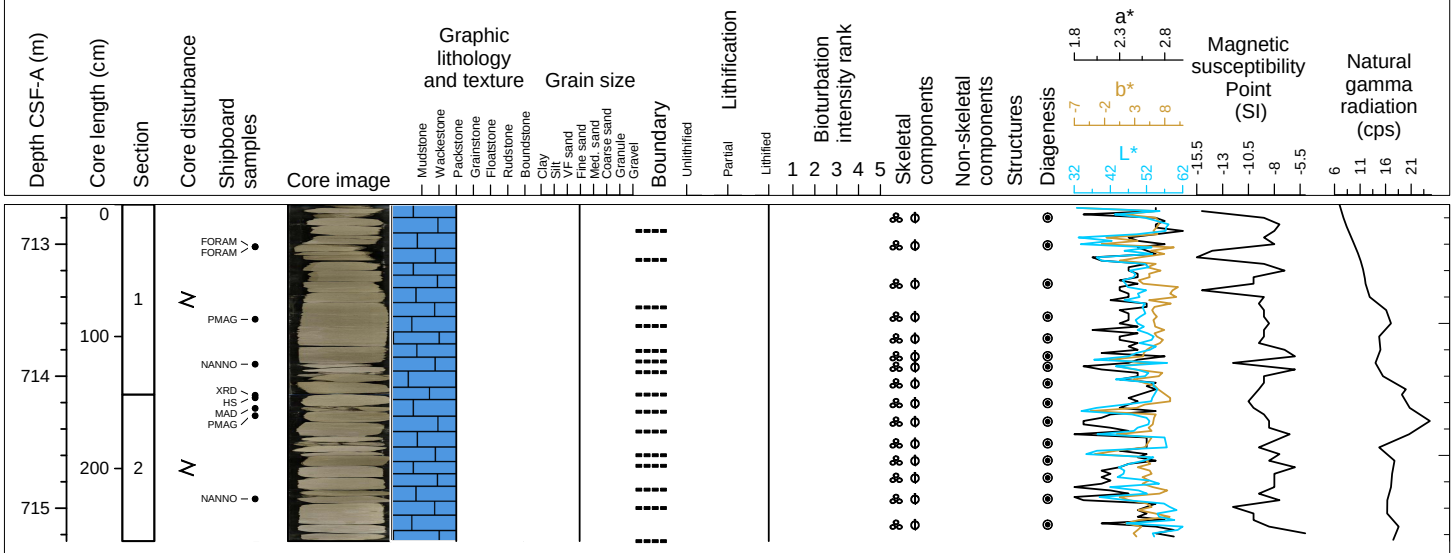
Hole 359-U1471E Core 13R, Interval 703.0-706.8 m (CSF-A)

Major lithology: Planktic foraminifera-rich PACKSTONE with thin (1-10 cm) to medium (10-30 cm) interlayered and WACKESTONE. Very fine-grained, light gray to grayish brown. P planktic foraminifera are abundant and benthic foraminifera are rare. Components often present as molds. Bioturbation is complete. Common organic matter, celestine fragments and in molds. Contacts are gradational and represent by changes in color and texture. Minor lithology: None. Remarks: Wackestone decreasing down hole.



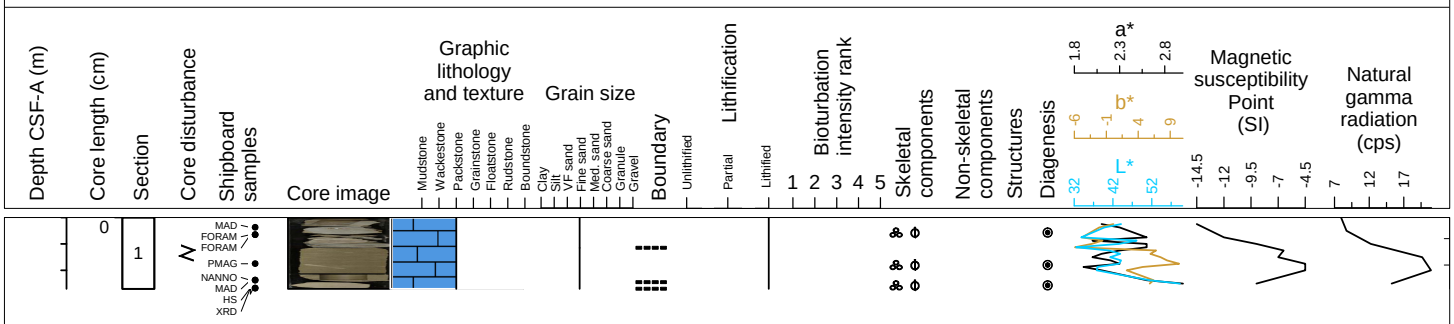
Hole 359-U1471E Core 14R, Interval 712.7-715.25 m (CSF-A)

Major lithology: Planktic foraminifera-rich PACKSTONE. Fine- to medium-grained, planktic foraminifera are abundant and benthic foraminifera are rare. Components often present as molds. Common organic matter, celestine fragments and in molds. Bioturbation is complete with Thalassinoides, Zoophycos and Planolites present. Contacts are gradational and represent by changes in color. Minor lithology: None. Remarks: Ichnofossils are well preserved.



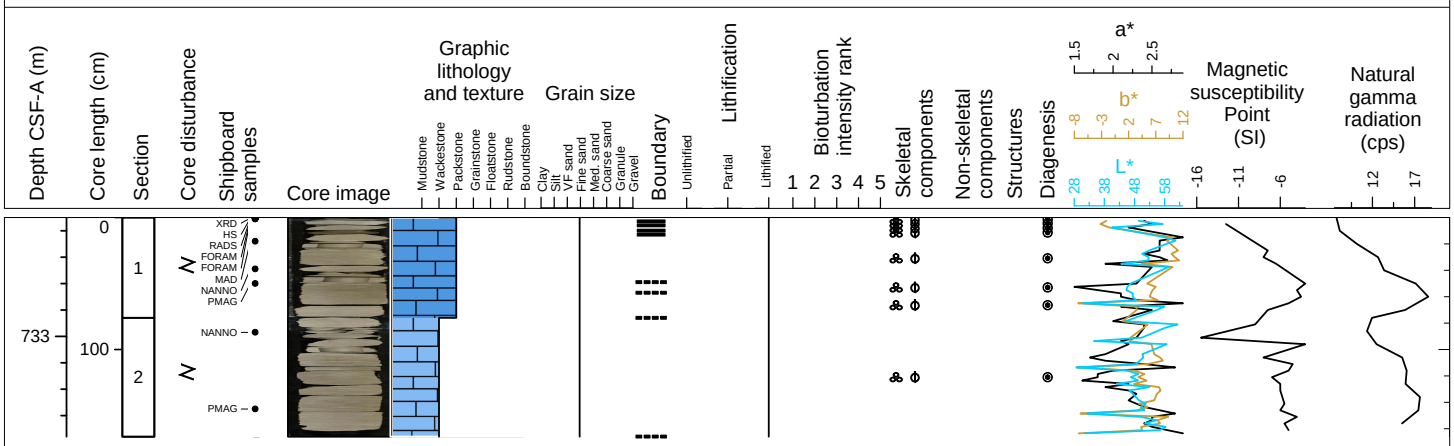
Hole 359-U1471E Core 15R, Interval 722.4-722.94 m (CSF-A)

Major lithology: Planktic foraminifera-rich PACKSTONE. Fine- to medium-grained, light gray to grayish brown. Planktic foraminifera are abundant and benthic foraminifera are rare. Components often present as molds. Common organic matter, celestine fragments and in molds. Bioturbation is complete Minor lithology: None. Remarks: Top 23 cm is silicified.



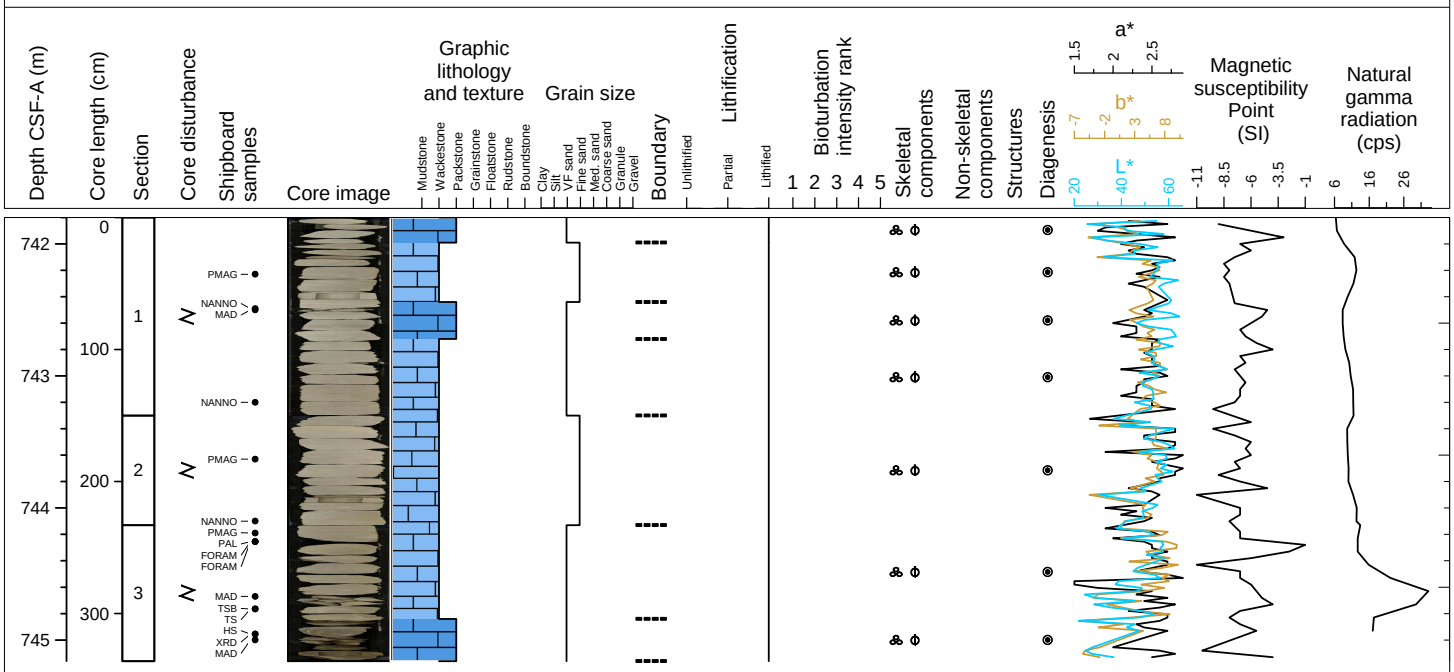
Hole 359-U1471E Core 16R, Interval 732.1-733.76 m (CSF-A)

Major lithology: Planktic foraminifera-rich WACKESTONE. Fine- to medium-grained, light gray to grayish brown. Planktic foraminifera are abundant and benthic foraminifera are rare. Components often present as molds. Celestine is present filling molds. Bioturbation is complete with Planolites, Palaeophycus, Thalassinoides, Chondrites, Phycosiphon, Teichichnus. Minor lithology: Lithified planktic foraminifera-rich PACKSTONE. Very fine-grained, planktic foraminifera are abundant and benthic foraminifera are rare. Components often present as molds.



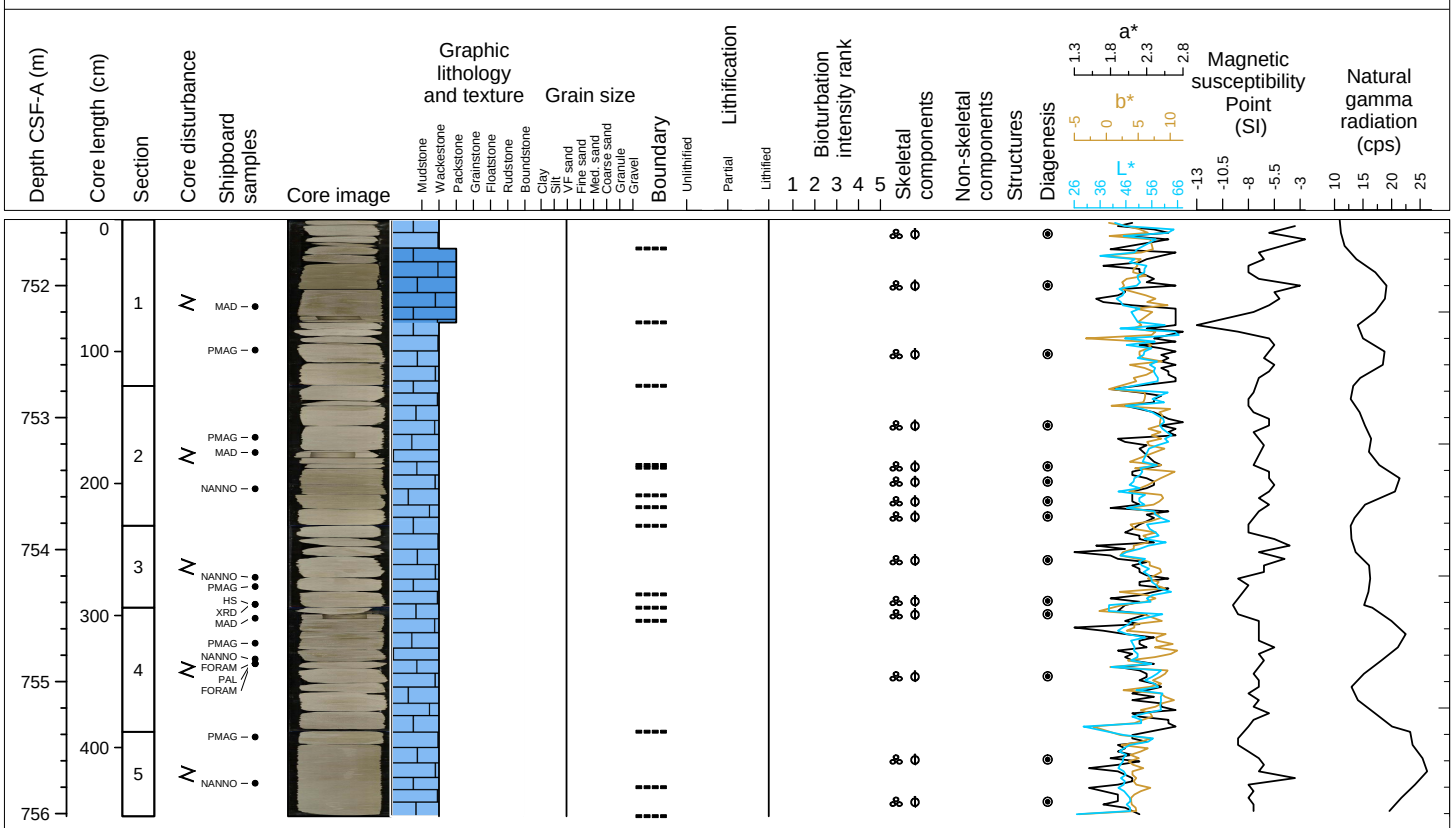
Hole 359-U1471E Core 17R, Interval 741.8-745.16 m (CSF-A)

Major lithology: Planktic foraminifera-rich WACKESTONE. Fine- to medium-grained, light gray to grayish brown. Planktic foraminifera are abundant and benthic foraminifera are rare. Components often present as molds. Celestine is present filling molds. Bioturbation is complete with Planolites, Palaeophycus, Thalassinoides, Chondrites, Phycosiphon, Teichichnus. Minor lithology: none Remarks: Large BF Heterostegina sp.



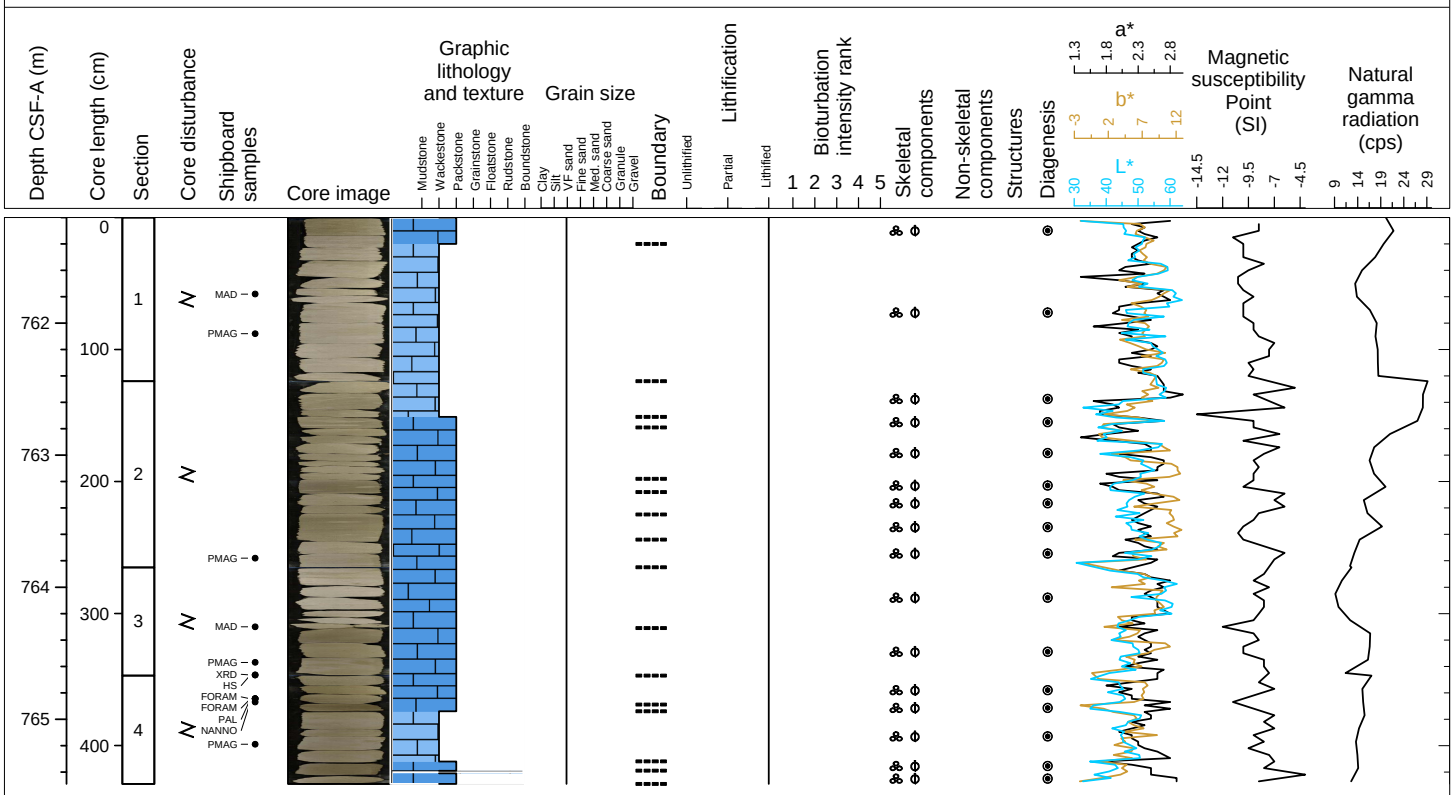
Hole 359-U1471E Core 18R, Interval 751.5-756.02 m (CSF-A)

Major lithology: Planktic foraminifera-rich PACKSTONE. Fine- to medium-grained, light gray to grayish brown. Planktic foraminifera are abundant and benthic foraminifera are rare. Components often present as molds. Celestine is present filling molds. Bioturbation is complete with Planolites, Palaeophycus, Thalassinoides, Chondrites, Phycosiphon, Teichichnus. Minor lithology: None



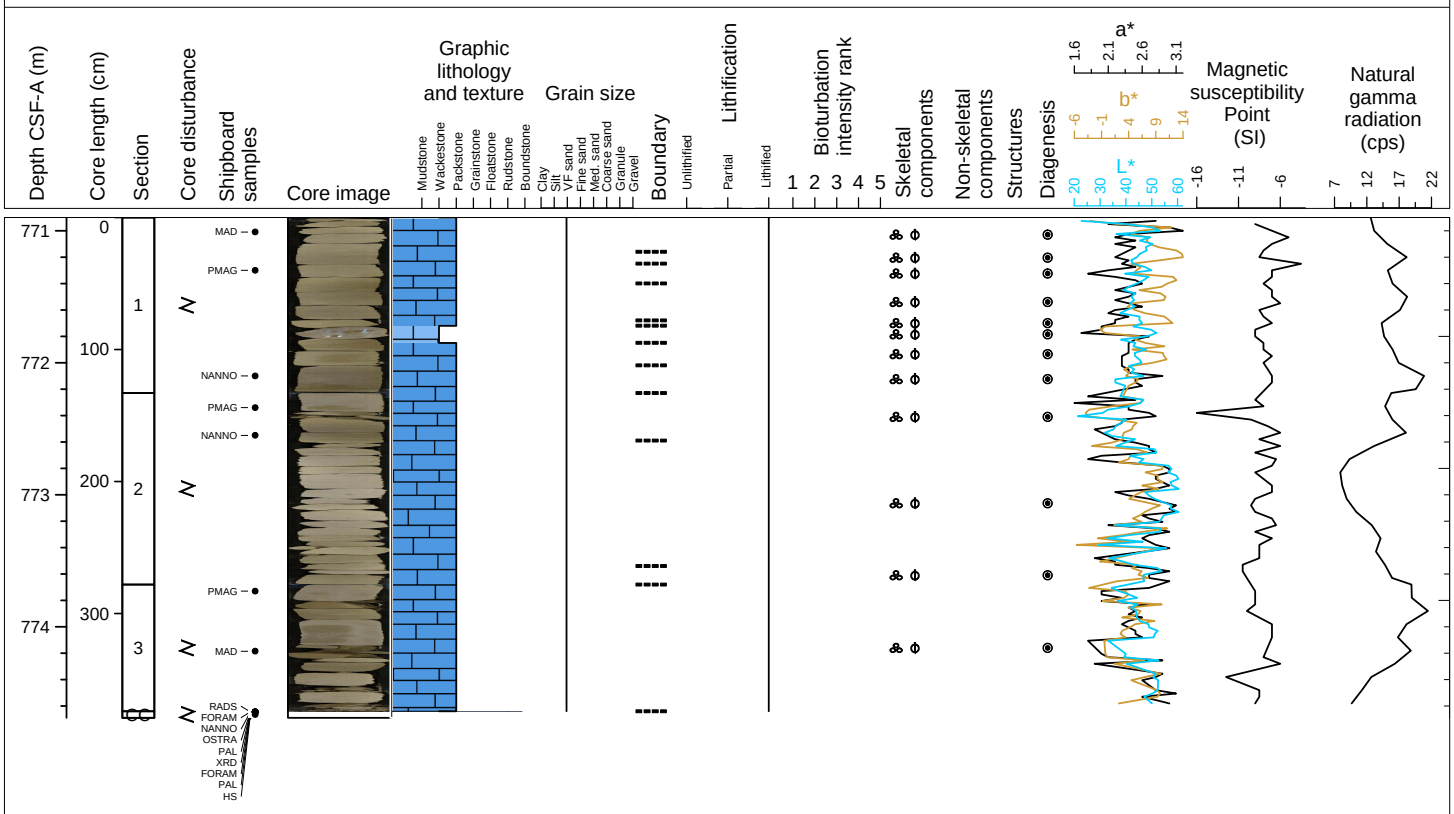
Hole 359-U1471E Core 19R, Interval 761.2-765.49 m (CSF-A)

Major lithology: Planktic foraminifera-rich PACKSTONE. Fine- to medium-grained, light gray to grayish brown. Planktic foraminifera are abundant and benthic foraminifera are rare. Components often present as molds. Celestine is present filling molds. Bioturbation is complete with Planolites, Palaeophycus, Thalassinoides, Chondrites, Phycosiphon, Teichichnus Zoophycos. Minor lithology: WACKESTONE. Fine- to medium-grained, light gray to grayish brown. Planktic foraminifera are abundant and benthic foraminifera are rare. Components often present as molds. Celestine is present filling molds.



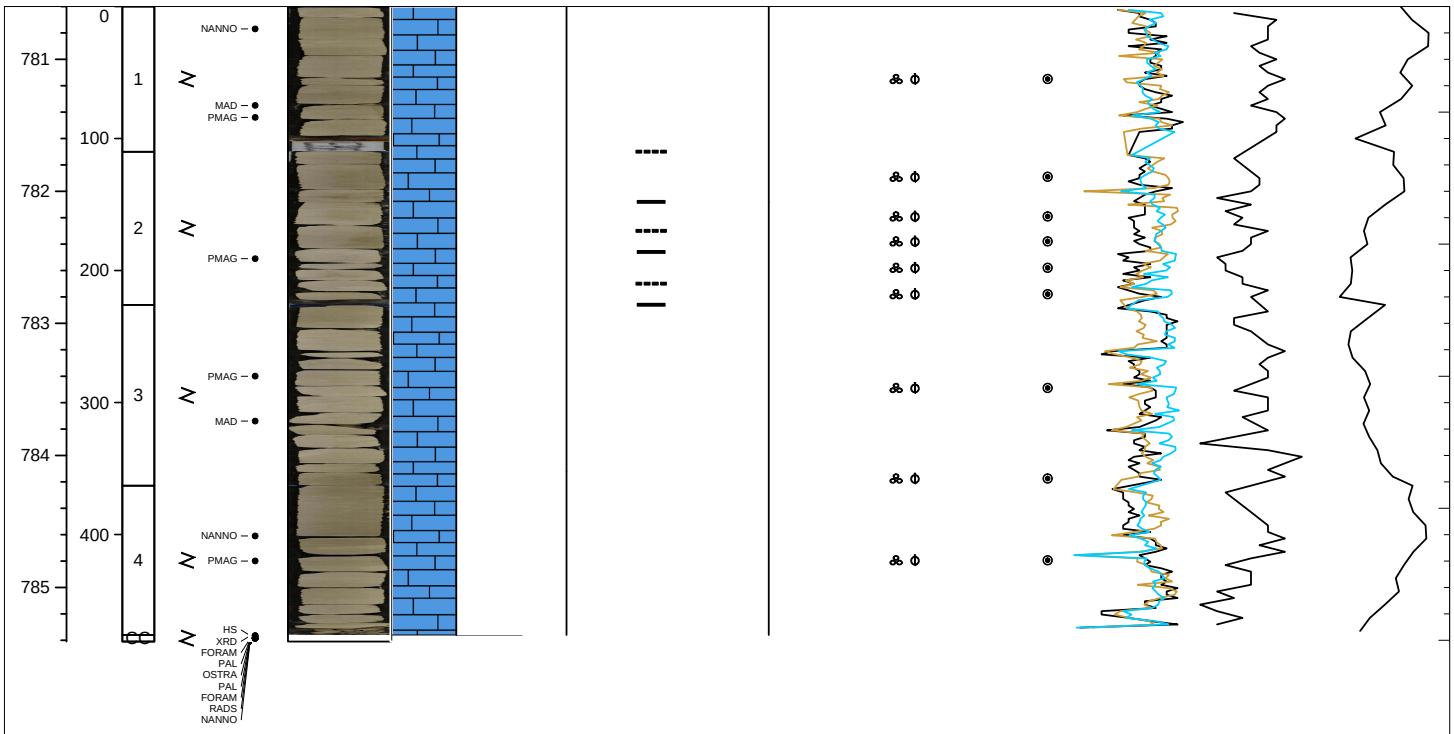
Hole 359-U1471E Core 20R, Interval 770.9-774.69 m (CSF-A)

Major lithology: Planktic foraminifera-rich PACKSTONE. Fine- to medium-grained, light gray to grayish brown. Planktic foraminifera are abundant and benthic foraminifera are rare. Components often present as molds. Celestine is present filling molds. Bioturbation is complete with Planolites, Palaeophycus, Thalassinoides, Chondrites, Phycosiphon, Teichichnus Zoophycos. Minor lithology: WACKESTONE. Fine- to medium-grained, light gray to grayish brown. Planktic foraminifera are abundant and benthic foraminifera are rare. Components often present as molds.



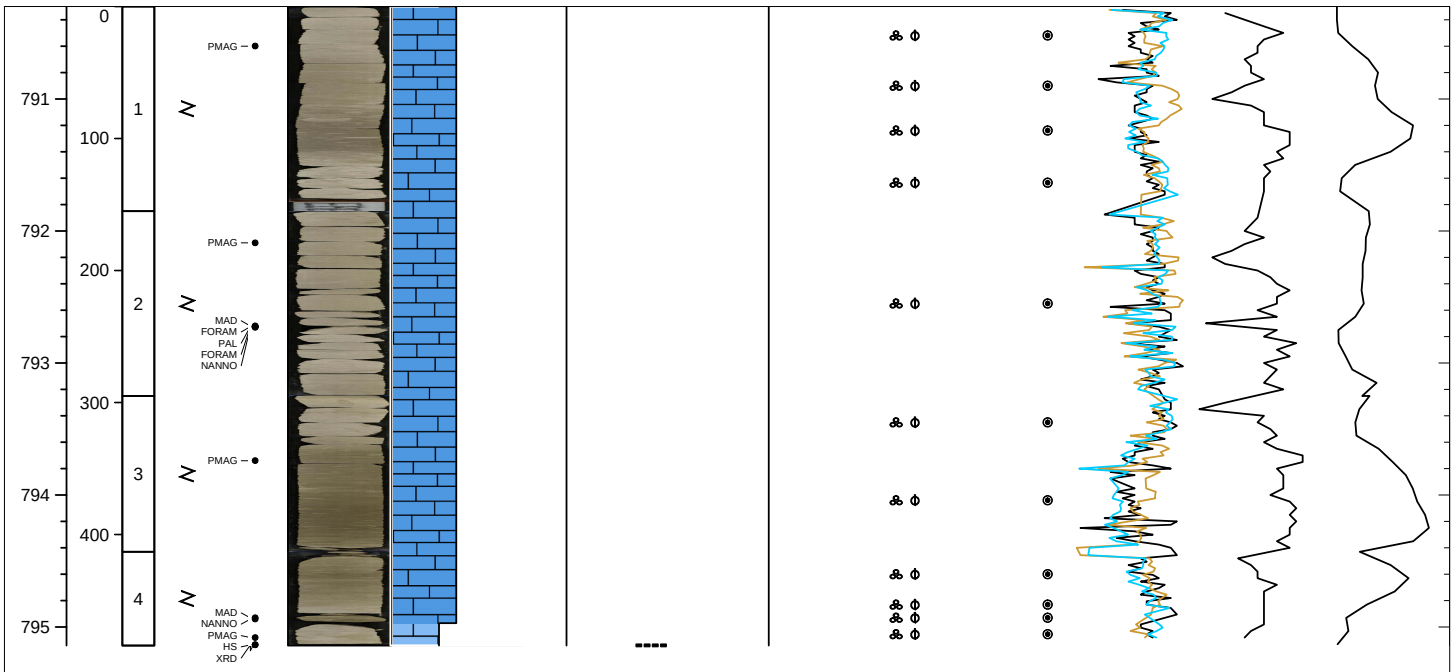
Hole 359-U1471E Core 21R, Interval 780.6-785.41 m (CSF-A)

Major lithology: Planktic foraminifera-rich PACKSTONE. Fine- to medium-grained, light gray to grayish brown. Planktic foraminifera are abundant and benthic foraminifera are rare. Components often present as molds. Bioturbation is complete with Planolites, Palaeophycus, Thalassinoides, Chondrites, Phycosiphon, Teichichnus. Minor lithology: None



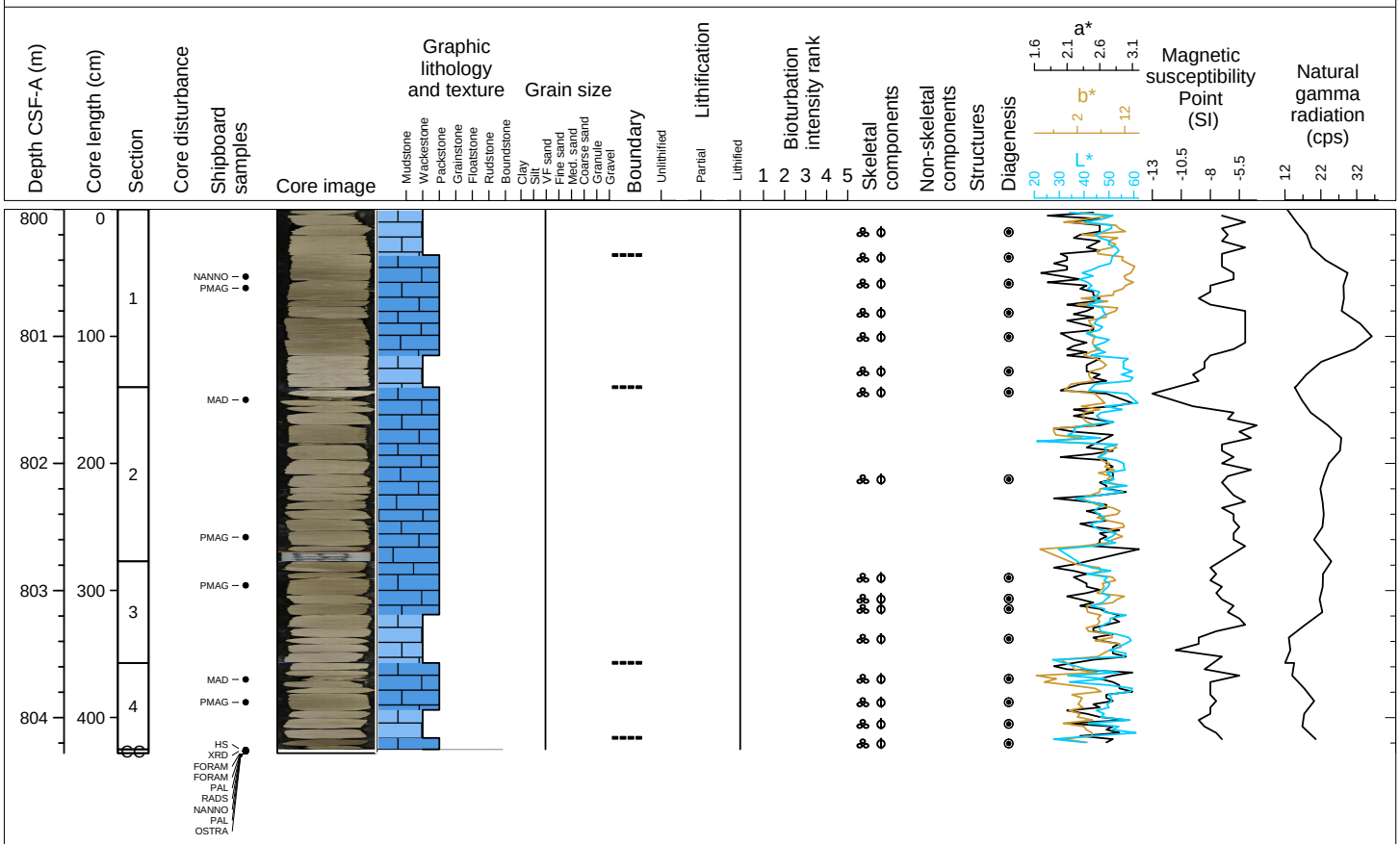
Hole 359-U1471E Core 22R, Interval 790.3-795.14 m (CSF-A)

Major lithology: Planktic foraminifera-rich PACKSTONE. Fine- to medium-grained, light gray to grayish brown. Planktic foraminifera are abundant and benthic foraminifera are rare. Components often present as molds. Bioturbation is complete with Planolites, Palaeophycus, Thalassinoides, Chondrites, Phycosiphon, Teichichnus. Minor lithology: None



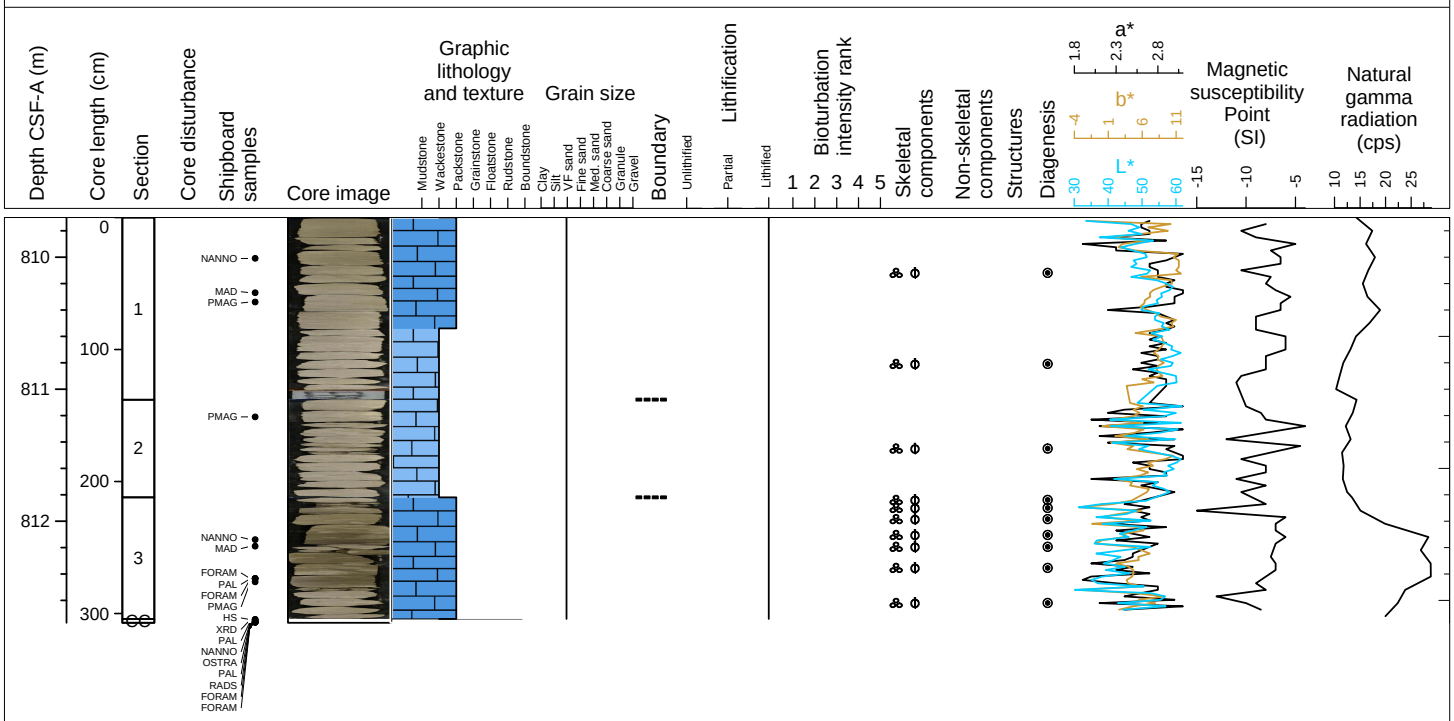
Hole 359-U1471E Core 23R, Interval 800.0-804.28 m (CSF-A)

Major lithology: Planktic foraminifera-rich PACKSTONE. Fine- to medium-grained, light gray to grayish brown. Planktic foraminifera are abundant and benthic foraminifera are rare. Components often present as molds. Bioturbation is complete with Planolites, Palaeophycus, Thalassinoides, Chondrites, Phycosiphon, Teichichnus and Zoophycos. Minor lithology: WACKESTONE. Fine- to medium-grained, light gray to grayish brown. Planktic foraminifera are abundant and benthic foraminifera are rare. Components often present as molds



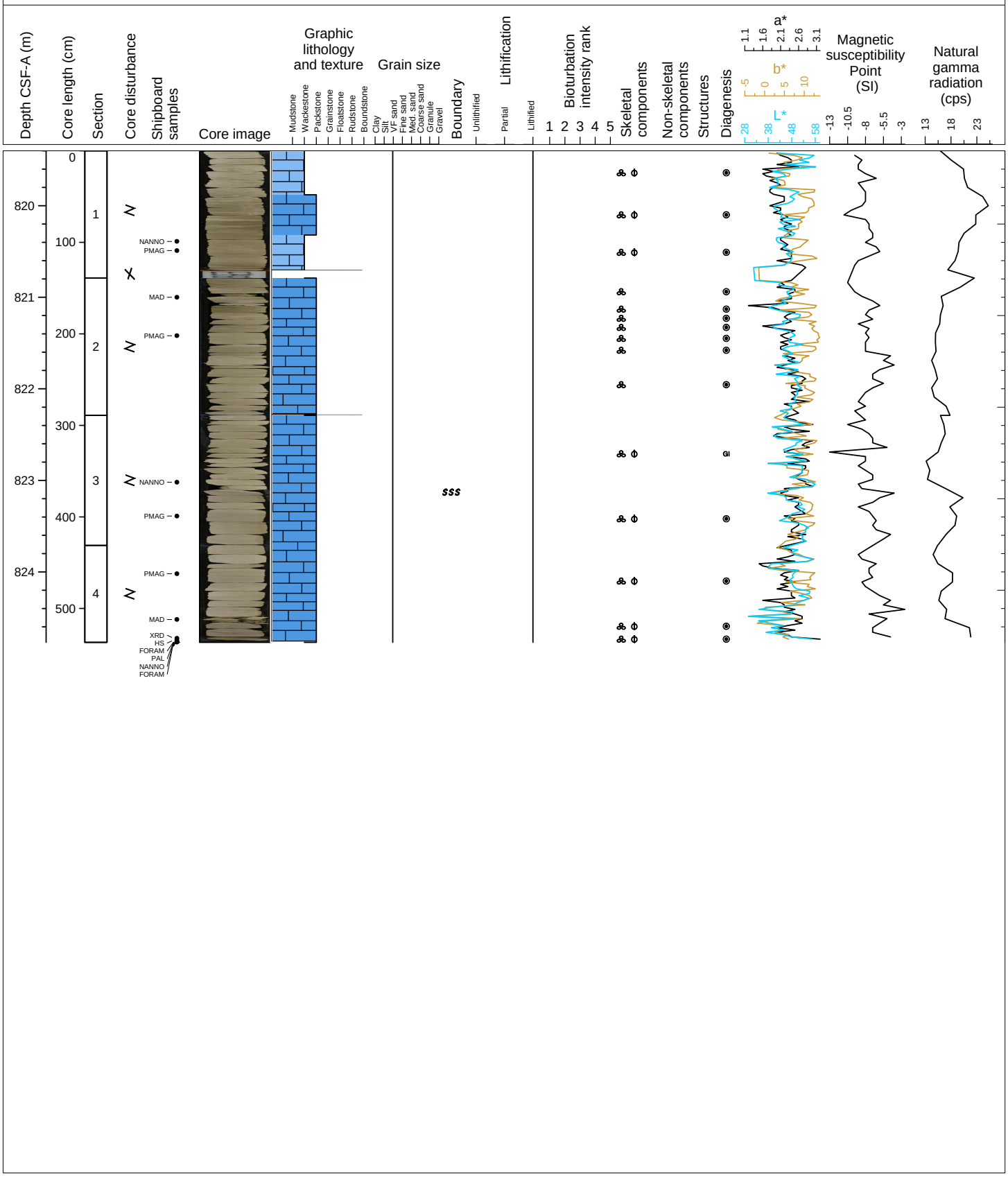
Hole 359-U1471E Core 24R, Interval 809.7-812.77 m (CSF-A)

Major lithology: Planktic foraminifera-rich PACKSTONE. Fine- to medium-grained, light gray to grayish brown. Planktic foraminifera are abundant and benthic foraminifera are rare. Components often present as molds. Bioturbation is complete with Planolites, Palaeophycus, Thalassinoides, Chondrites, Phycosiphon, Teichichnus Zoophycos. Minor lithology: WACKESTONE. Fine- to medium-grained, light gray to grayish brown. Planktic foraminifera are abundant and benthic foraminifera are rare. Components often present as molds.



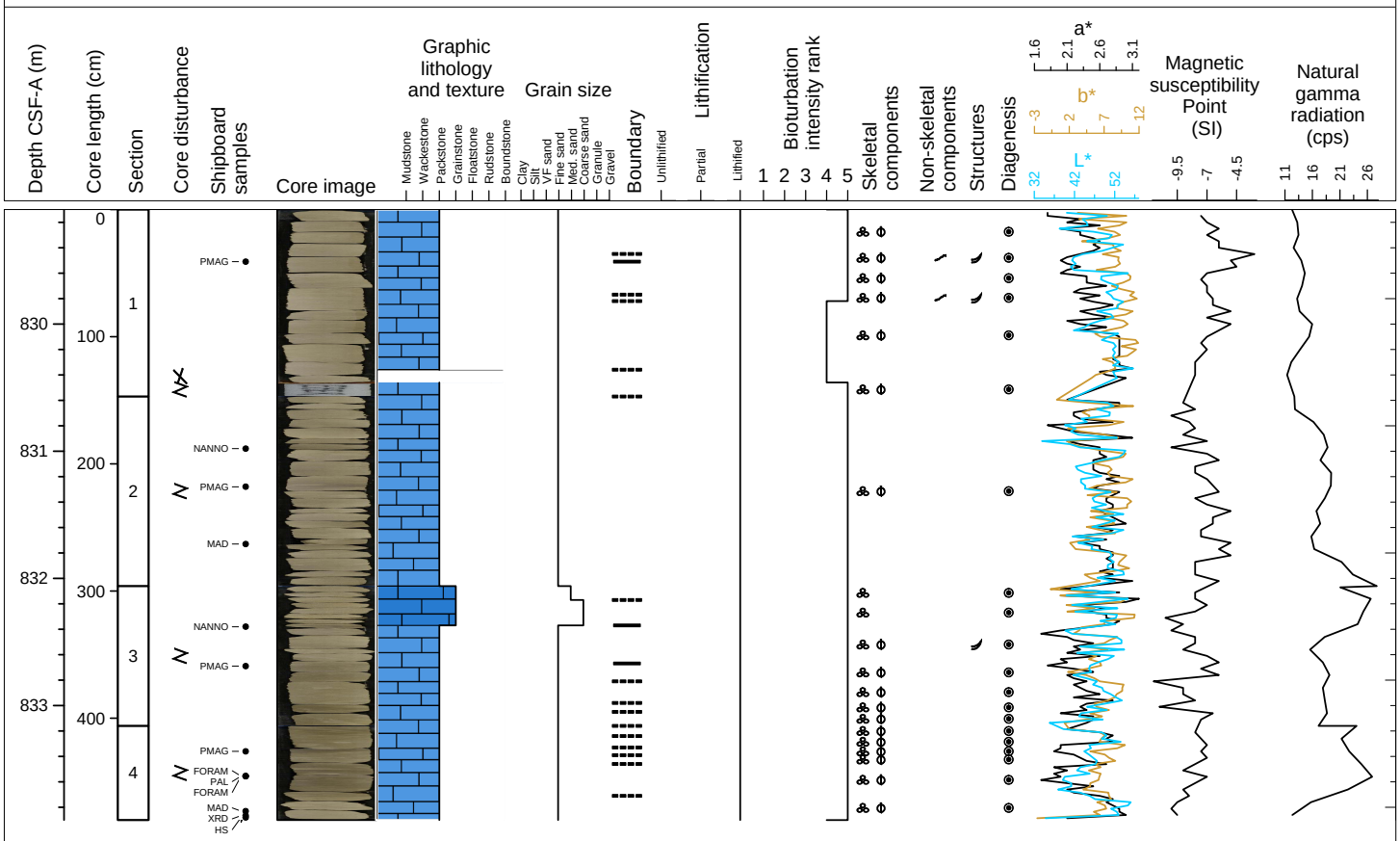
Hole 359-U1471E Core 25R, Interval 819.4-824.77 m (CSF-A)

Major lithology: Planktic foraminifera-rich PACKSTONE. Fine- to medium-grained, light gray to grayish brown. Planktic foraminifera are abundant and benthic foraminifera are rare. Components often present as molds. Bioturbation is complete with Planolites, Palaeophycus, Thalassinoides, Chondrites, Phycosiphon, Teichichnus and Zoophycos. Minor lithology: WACKESTONE. Fine- to medium-grained, light gray to grayish brown. Planktic foraminifera are abundant and benthic foraminifera are rare. Components often present as molds



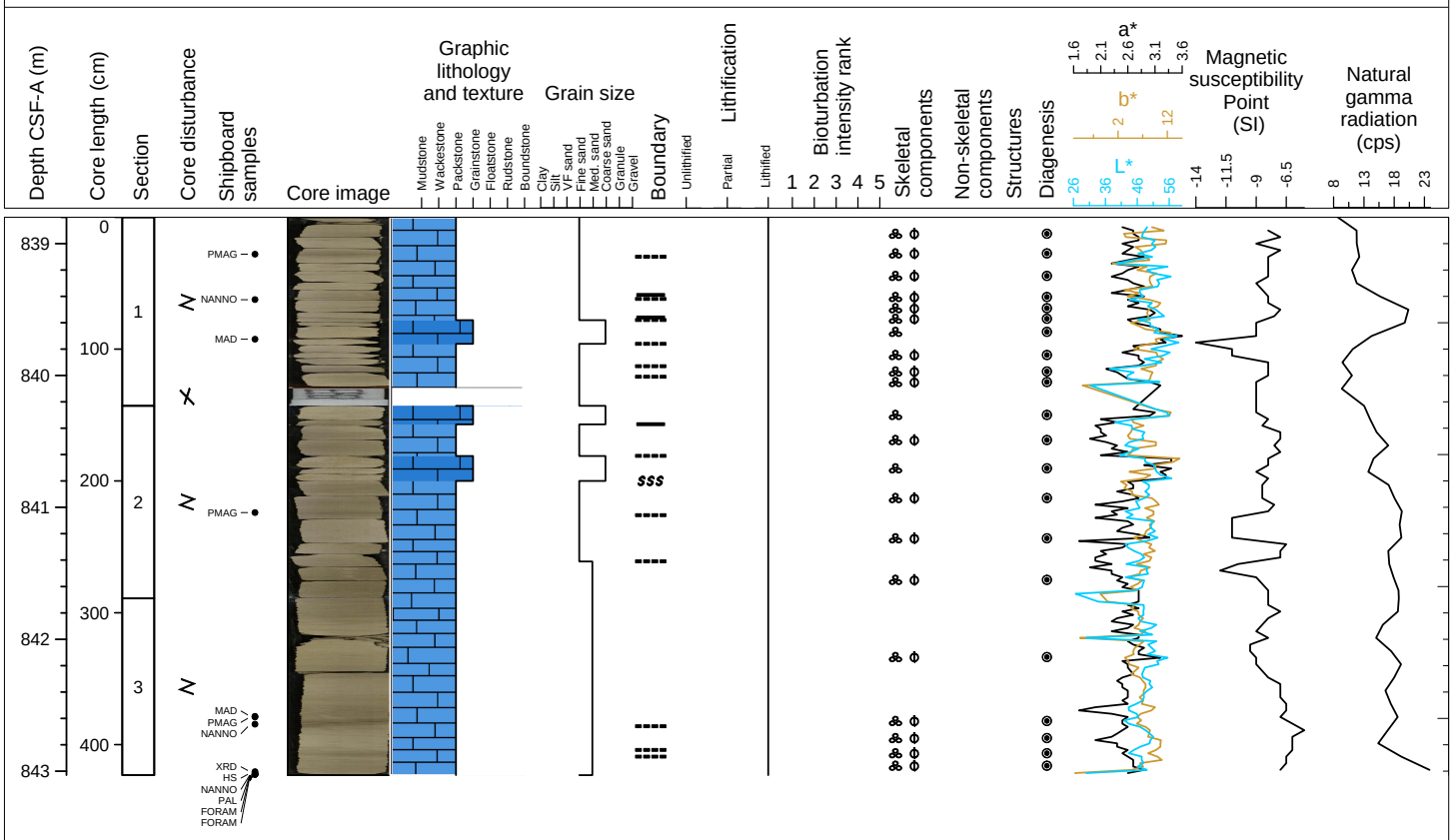
Hole 359-U1471E Core 26R, Interval 829.1-833.9 m (CSF-A)

Main lithology: Planktic foraminifera-rich PACKSTONE. Fine-grained, light gray to grayish brown. Planktic foraminifera are abundant and benthic foraminifera are rare. Components often present as molds which are commonly infilled with silica. Organic matter is present. Bioturbation is complete. Coarse-grained GRAINSTONE occurs as burrow infills with Planolites, Thalassinoides, Chondrites and Zoophycos. present. Minor 1: Bioclastic coarse-grained GRAINSTONE (27R-1, 78 - 96 cm), bioturbated with PACKSTONE infill within burrows. Large burrowing community (with Planolites and Thalassinoides). Minor 2: Darker intervals of PACKSTONE (27R-1-A, 25 - 30; 76-76 cm) are organic rich with lenticular bedding and/or bioturbated laminations with smaller burrowing communities (Palaeophycus and Chondrites). Remark: Convoluted bedding 27R-3-A, 89 - 97 cm.



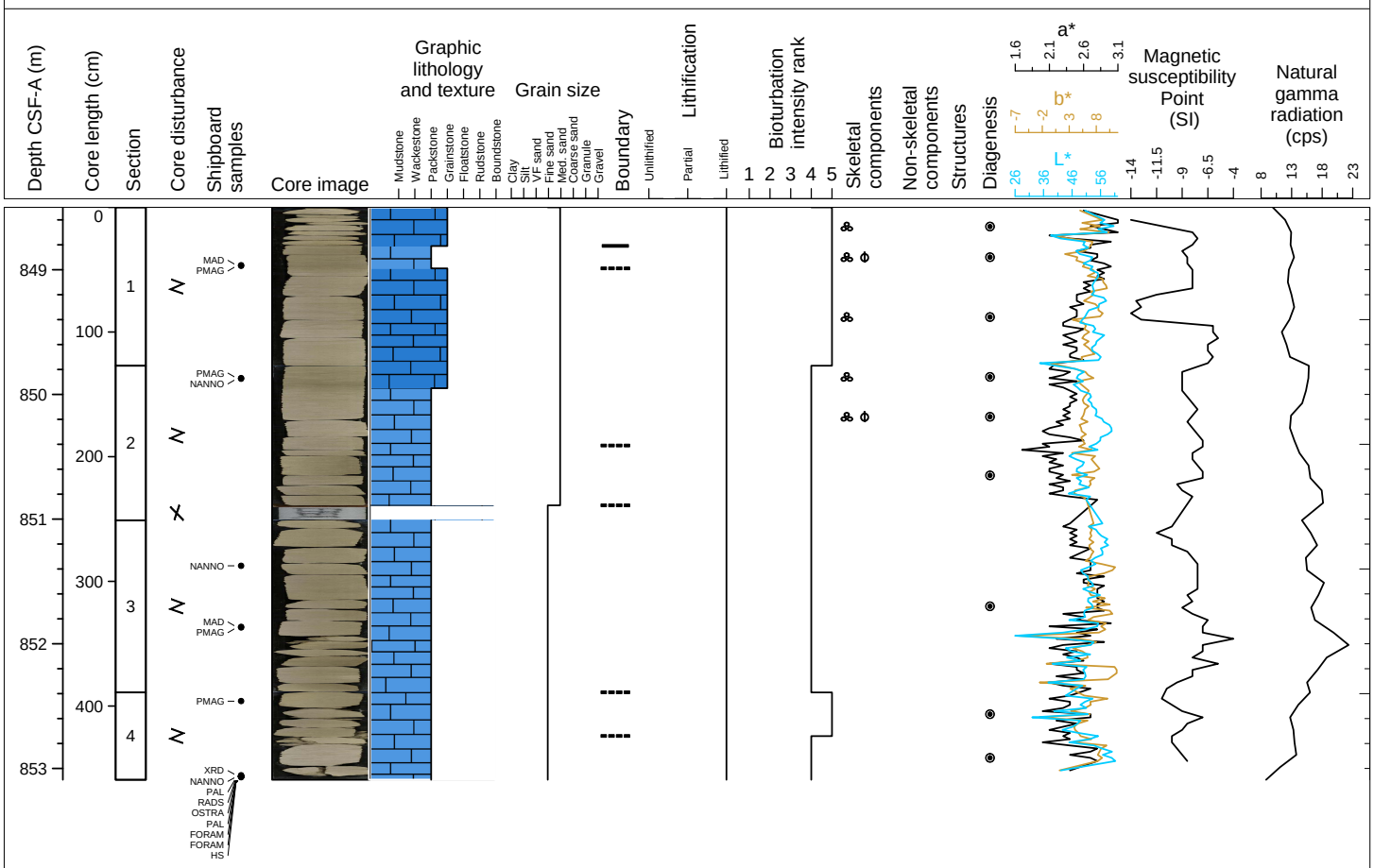
Hole 359-U1471E Core 27R, Interval 838.8-843.03 m (CSF-A)

Main lithology: Planktic foraminifera-rich PACKSTONE. Fine-grained, light gray to grayish brown. Planktic foraminifera are abundant and benthic foraminifera are rare. Abundant bioclasts and shell fragments are common. Components often present as molds which are commonly infilled with silica. Organic matter is present. Bioturbation is complete. Coarse-grained GRAINSTONE occurs as burrow infills with Planolites, Thalassinoides, Chondrites and Zoophycos. present. Minor 1: Bioclastic coarse-grained GRAINSTONE (27R-1, 78 - 96 cm), Bioturbated is complete with PACKSTONE infill within burrows. Large burrowing community (with Planolites and Thalassinoides). Minor 2: Darker intervals of PACKSTONE (27R-1-A, 25 - 30; 76-76 cm) are organic rich with lenticular bedding and/or bioturbated laminations with smaller burrowing communities (Palaeophycus and Chondrites). Remark: Inter-particle porosity



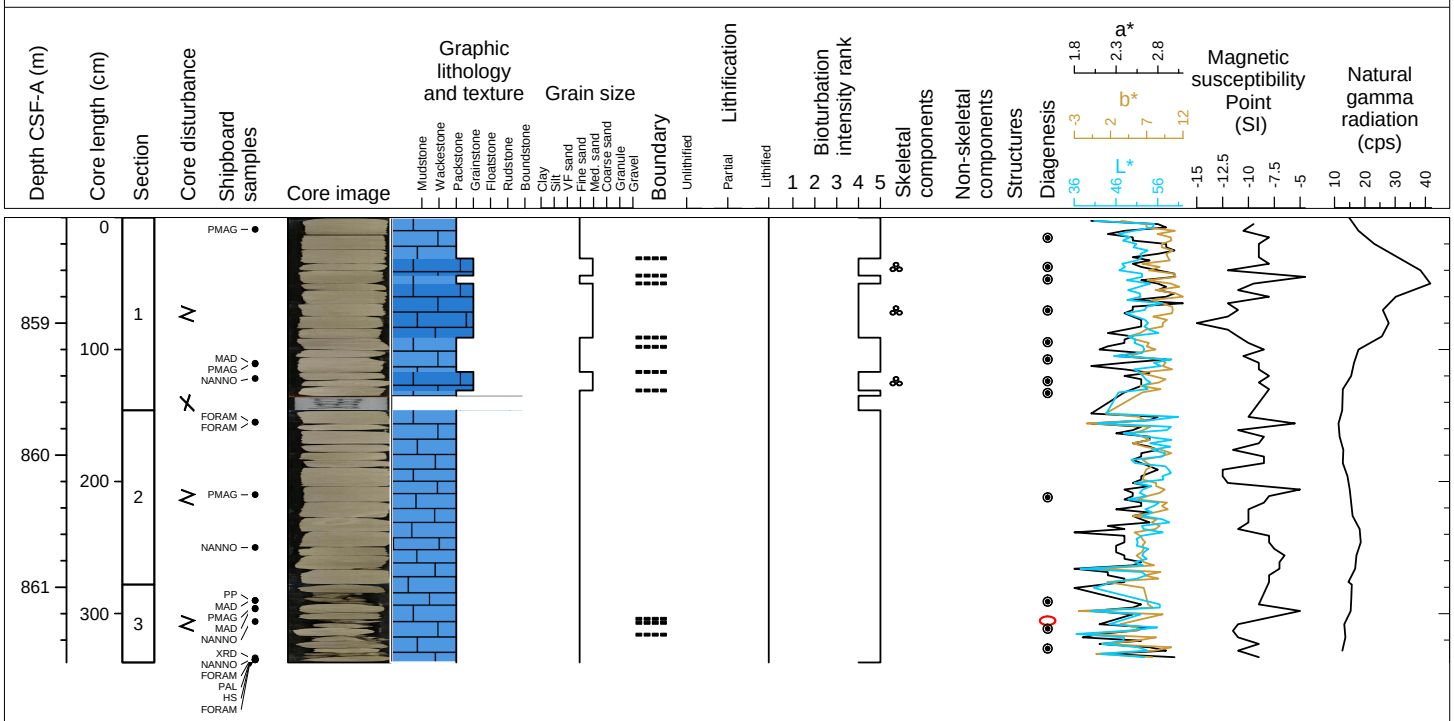
Hole 359-U1471E Core 28R, Interval 848.5-853.09 m (CSF-A)

Main lithology: Planktic foraminifera-rich PACKSTONE. Fine-grained, light gray to grayish brown. Planktic foraminifera are abundant and benthic foraminifera are rare. Abundant bioclasts and shell fragments are common. Components often present as molds which are commonly infilled with silica. Organic matter is present. Bioturbation is complete. Coarse-grained GRAINSTONE occurs as burrow infills with Planolites, Thalassinoides, Chondrites and Zoophycos are present. Minor: Bioclastic coarse-grained GRAINSTONE (28R-1, 49 to 28R-2, 18 cm), Bioturbated is complete with PACKSTONE infill within burrows. Large burrowing community (with Planolites and Thalassinoides). Remark: Inter-particle porosity.



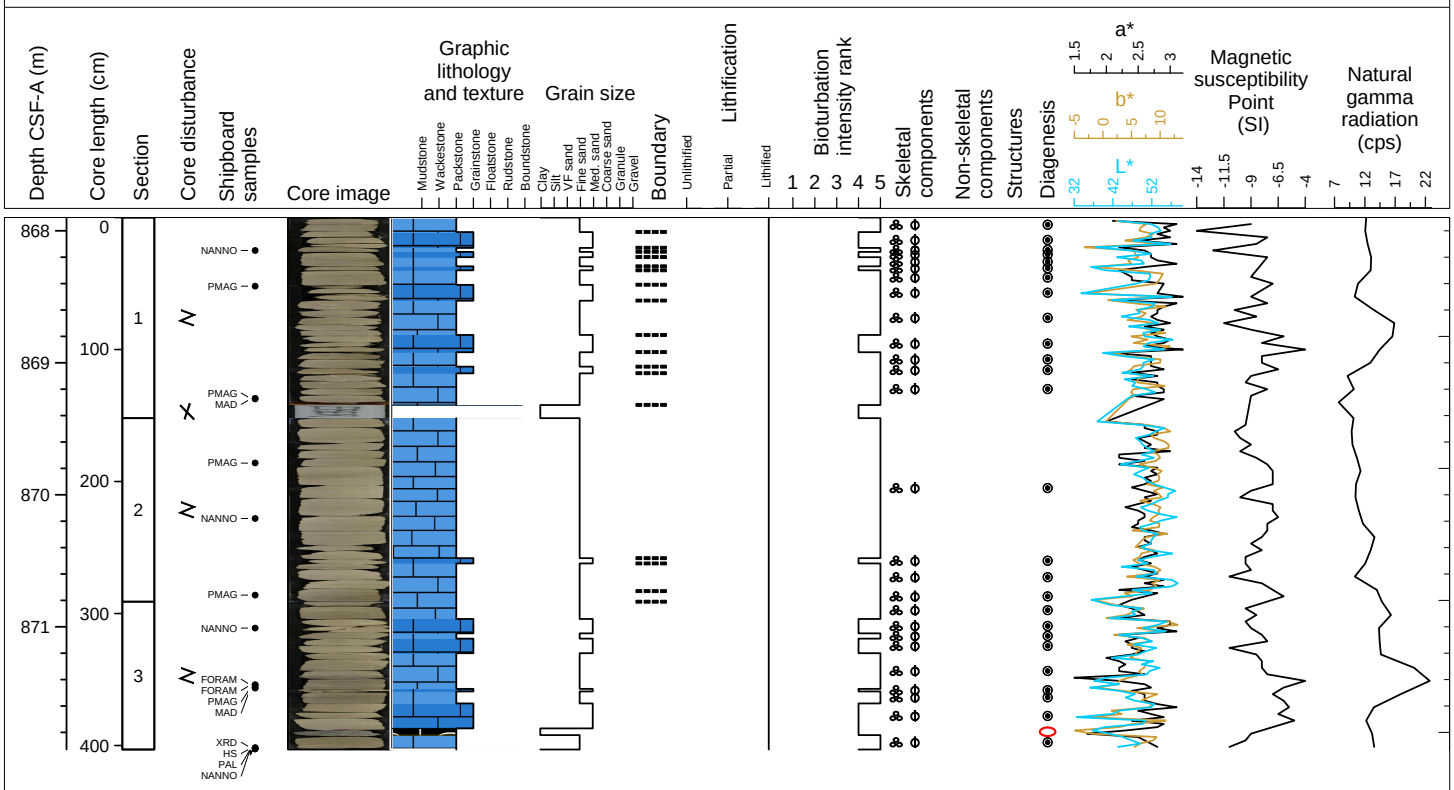
Hole 359-U1471E Core 29R, Interval 858.2-861.57 m (CSF-A)

Main lithology: Planktic foraminifera-rich PACKSTONE. Fine-grained, light gray to grayish brown. Planktic foraminifera are abundant and benthic foraminifera are rare. Abundant bioclasts and shell fragments are common. Components often present as molds which are commonly infilled with silica. Organic matter is present. Bioturbation is complete. Coarse-grained GRAINSTONE occurs as burrow infills with Planolites, Thalassinoides, Chondrites and Zoophycos are present. Minor: Interlayered bioclastic coarse-grained GRAINSTONE (29R-1, 31 - 44 cm, 50 - 91 cm and 117 - 131 cm). Shell fragments and bioclasts are abundant. Bioturbated is complete with PACKSTONE infill within burrows. Large burrowing community (with Planolites and Thalassinoides). Remark: Inter-particle porosity. Large chert nodule in silicified sediment at 29R-3-A, 26 - 29 cm



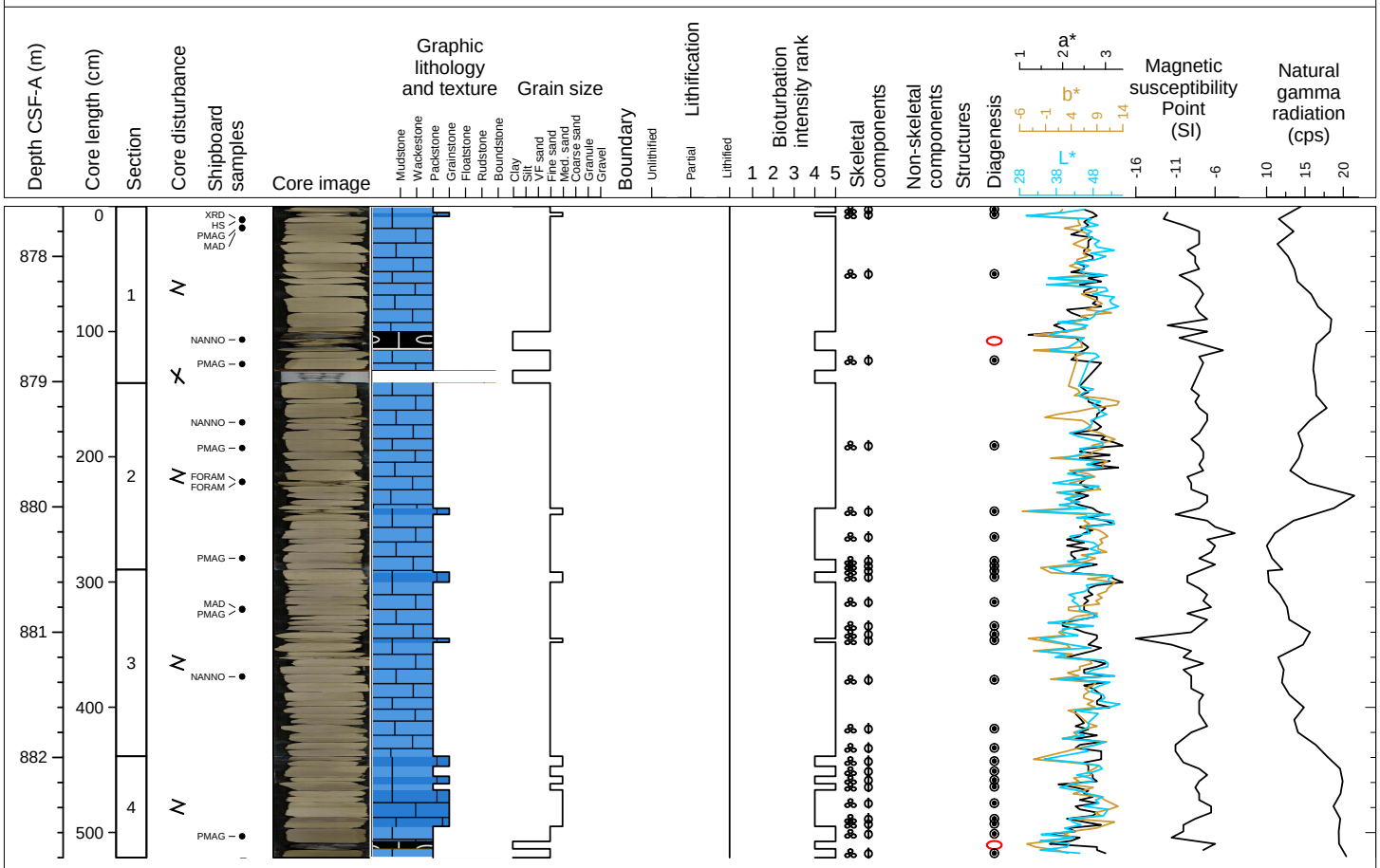
Hole 359-U1471E Core 30R, Interval 867.9-871.93 m (CSF-A)

Main lithology: Planktic foraminifera-rich PACKSTONE with thin to medium interlayered GRAINSTONE. Fine-grained, light gray to grayish brown. Planktic foraminifera are abundant and benthic foraminifera are rare. Abundant bioclasts and shell fragments are common. Components often present as molds which are commonly infilled with silica. Organic matter is present. Bioturbation is complete. Coarse-grained GRAINSTONE occurs as burrow infills with Planolites, Thalassinoides, Chondrites and Zoophycos are present. Minor: Interlayered bioclastic coarse-grained GRAINSTONE. Bioclasts are abundant. Glauconite is present. Bioturbated is complete with PACKSTONE infill within burrows. Remark: Inter-particle porosity. Large chert nodule in silicified sediment at 30R-3-A, 96 - 101 cm



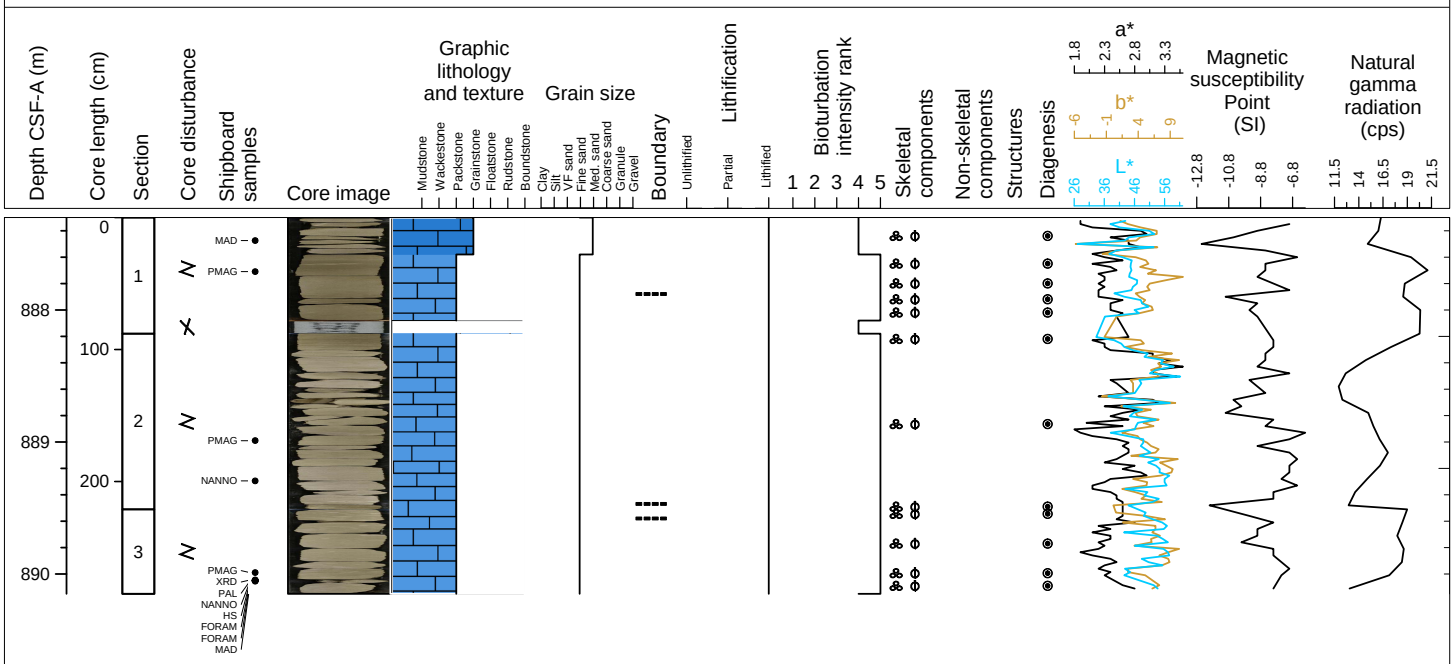
Hole 359-U1471E Core 31R, Interval 877.6-882.8 m (CSF-A)

Main lithology: Planktic foraminifera-rich PACKSTONE with thin to medium interlayered GRAINSTONE. Fine-grained, light gray to gray and grayish brown. Planktic foraminifera are abundant and benthic foraminifera are rare. Components often present as molds. Organic matter is more abundant in darker intervals. Bioturbation is complete. Coarse-grained GRAINSTONE occurs as burrow infills with Planolites, Thalassinoides, Chondrites and Zoophycos are present. Minor: Interlayered coarse-grained GRAINSTONE. Bioturbated is complete with PACKSTONE infill within burrows. Remark: Inter-particle porosity. Texture burrows at 31R-4-A, 39 - 40 cm. Large chert nodule in silicified sediment at 31R-3-4, 68 - 74 cm.



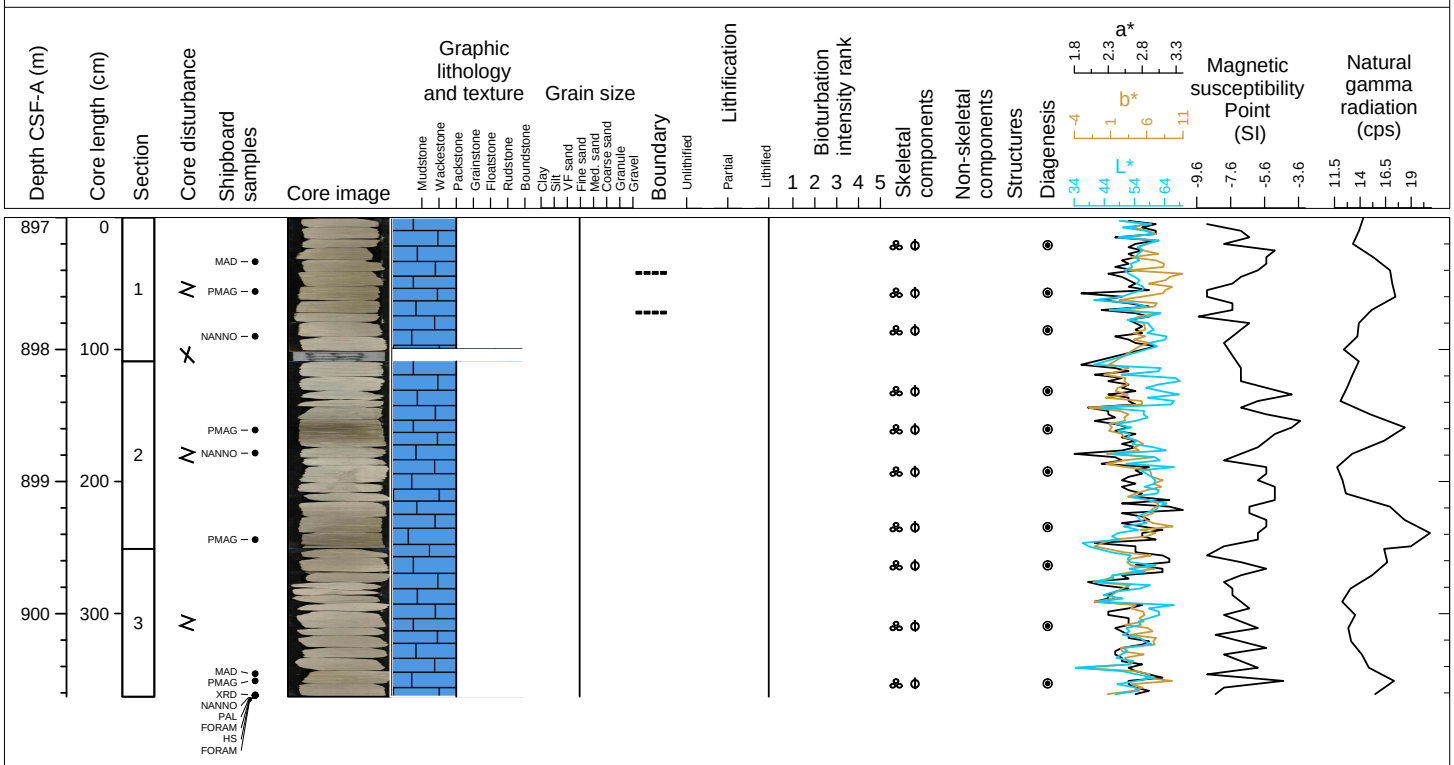
Hole 359-U1471E Core 32R, Interval 887.3-890.15 m (CSF-A)

Main lithology: Planktic foraminifera-rich PACKSTONE. Fine-grained, light gray to gray and grayish brown. Planktic foraminifera are abundant and benthic foraminifera are rare. Components often present as molds. Organic matter is more abundant in darker intervals. Bioturbation is complete with common Planolites, Thalassinoides, Chondrites and Zoophycos. Contacts when observed are gradation and bioturbated and represent changes in color. Minor: Interlayered coarse-grained GRAINSTONE interlayer (32R-1A, 00 - 28 cm). Inter-particle porosity throughout.



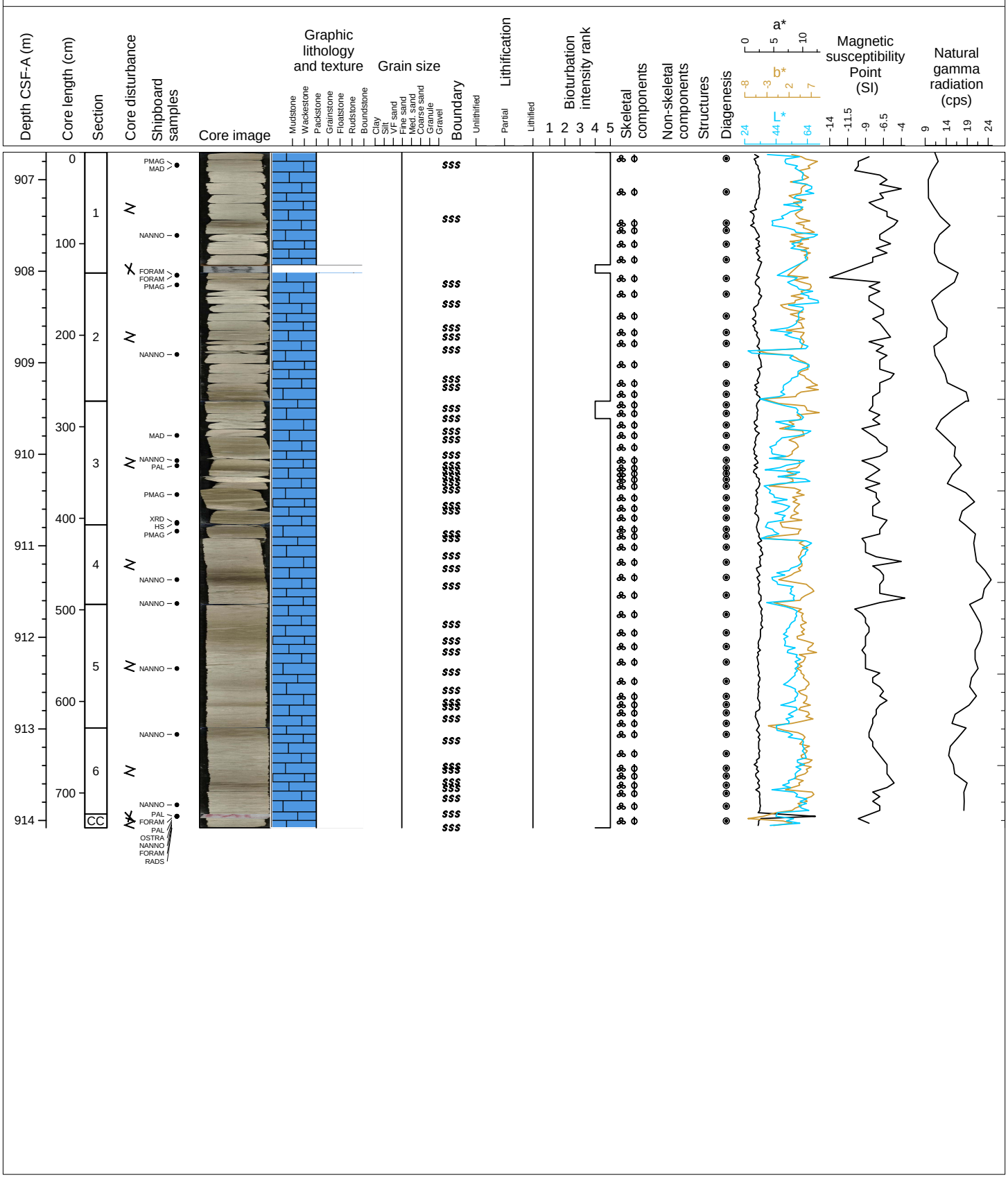
Hole 359-U1471E Core 33R, Interval 897.0-900.63 m (CSF-A)

Main lithology: Planktic foraminifera-rich PACKSTONE. Fine-grained, white and light gray to gray and grayish brown. Planktic foraminifera are abundant, shell fragments are present and benthic foraminifera are rare. Components often present as molds. Organic matter is more abundant in darker intervals. Bioturbation is common to complete with common Planolites, Thalassinoides, Chondrites and Zoophycos. Grainstone infill and glauconite present in some burrows. Contacts when observed are gradation and bioturbated and represent changes in color. Minor: Interlayered coarse-grained GRAINSTONE interlayer (32R-1A, 00 - 28 cm). Inter-particle porosity throughout.



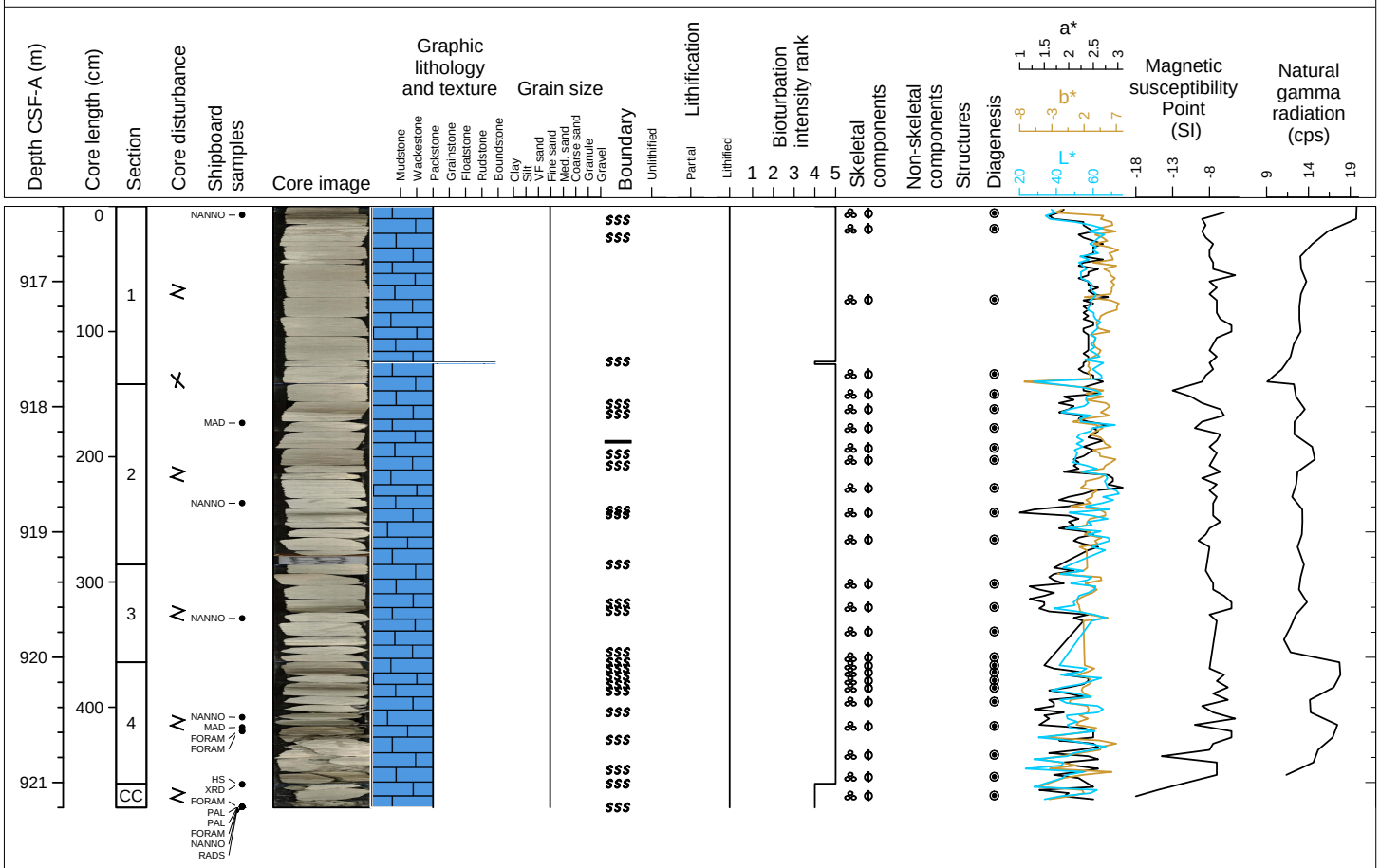
Hole 359-U1471E Core 34R, Interval 906.7-914.08 m (CSF-A)

Main lithology: Planktic foraminifera-rich PACKSTONE. Fine-grained. Lighter colored (white and light gray) and interlayered to darker colored (grayish brown and dark grayish brown) intervals. Planktic foraminifera are abundant and benthic foraminifera are few. Bioturbation is complete with common Planolites, Thalassinoides, Chondrites and Zoophycos. Phycosiphon and Palaeophycus are present. Multiple generations of burrowing, often with a coarser-grained infill and pyrite and/or glauconite. Darker intervals contain more organic matter and burrows are compacted. Contacts are gradational and bioturbated and represent changes in color. Minor: Lithology: None. Remarks: Pyrite infill in moldic pores are present, inter-particle porosity is abundant.



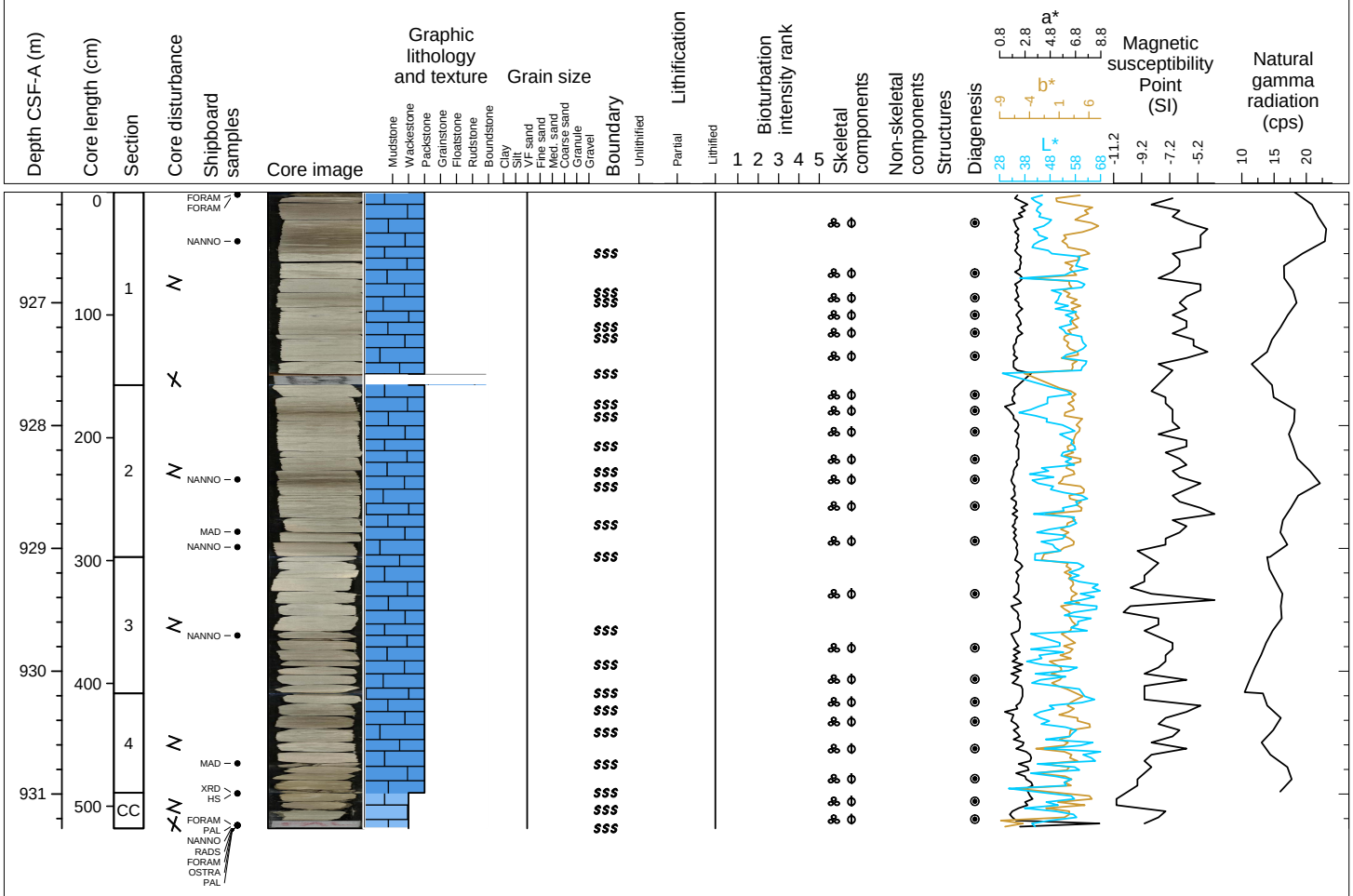
Hole 359-U1471E Core 35R, Interval 916.4-921.2 m (CSF-A)

Main lithology: Planktic foraminifera-rich PACKSTONE. Fine-grained. Lighter colored (white and light gray) and interlayered to darker colored (grayish brown and dark grayish brown) intervals. Planktic foraminifera are abundant and benthic foraminifera are few. Apatite is rare (as fish remains). Bioturbation is complete with common Planolites, Thalassinoides, Chondrites and Zoophycos. Phycosiphon and Palaeophycus are present. Multiple generations of burrowing, often with a coarser-grained infill and pyrite and/or glauconite. Darker intervals contain more organic matter and burrows are compacted. Contacts are gradational and bioturbated and represent changes in color. Minor: Lithology: None. Remarks: Pyrite infill in moldic pores are present, inter-particle porosity is abundant. Convolute bedding in 35R-2, 18 - 26 cm and 101 - 104 cm; 35R-3, 31 - 37 cm.



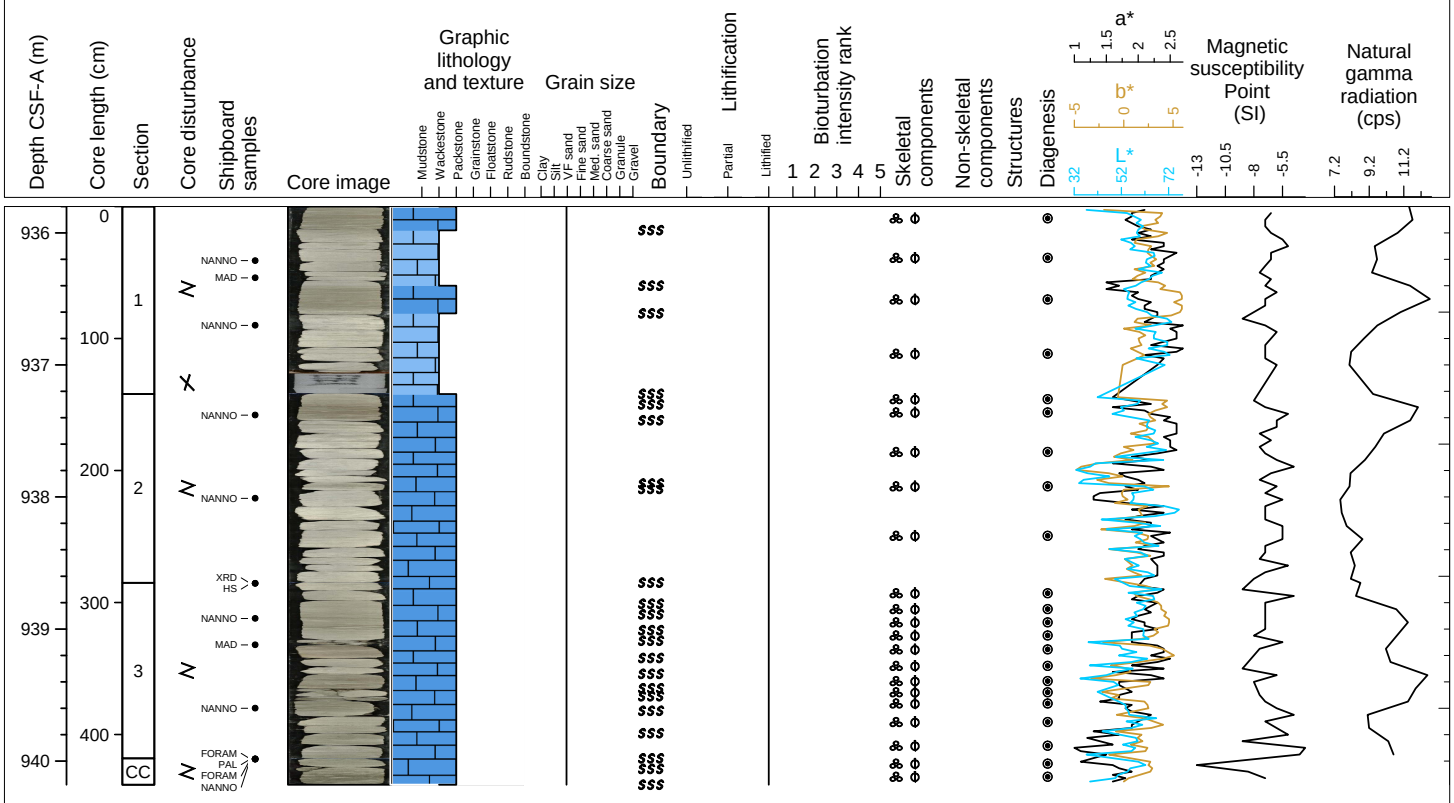
Hole 359-U1471E Core 36R, Interval 926.1-931.28 m (CSF-A)

Main lithology: Planktic foraminifera-rich PACKSTONE. Fine-grained. Lighter colored (white and light gray) and interlayered with darker colored (grayish brown and dark grayish brown) intervals. Planktic foraminifera are abundant and benthic foraminifera are few. Bioturbation is complete with common Planolites, Thalassinoides, Chondrites and Zoophycos. Phycosiphon and Palaeophycus are present. Multiple generations of burrowing, often with a coarser-grained infill and common pyrite and/or glauconite. Abundant dissolution seems in compacted intervals with darker colors. Darker intervals contain more organic matter and burrows are compacted. Contacts are gradational and bioturbated and represent changes in color. Minor: Lithology: None. Remarks: Pyrite. Few intervals laminated.



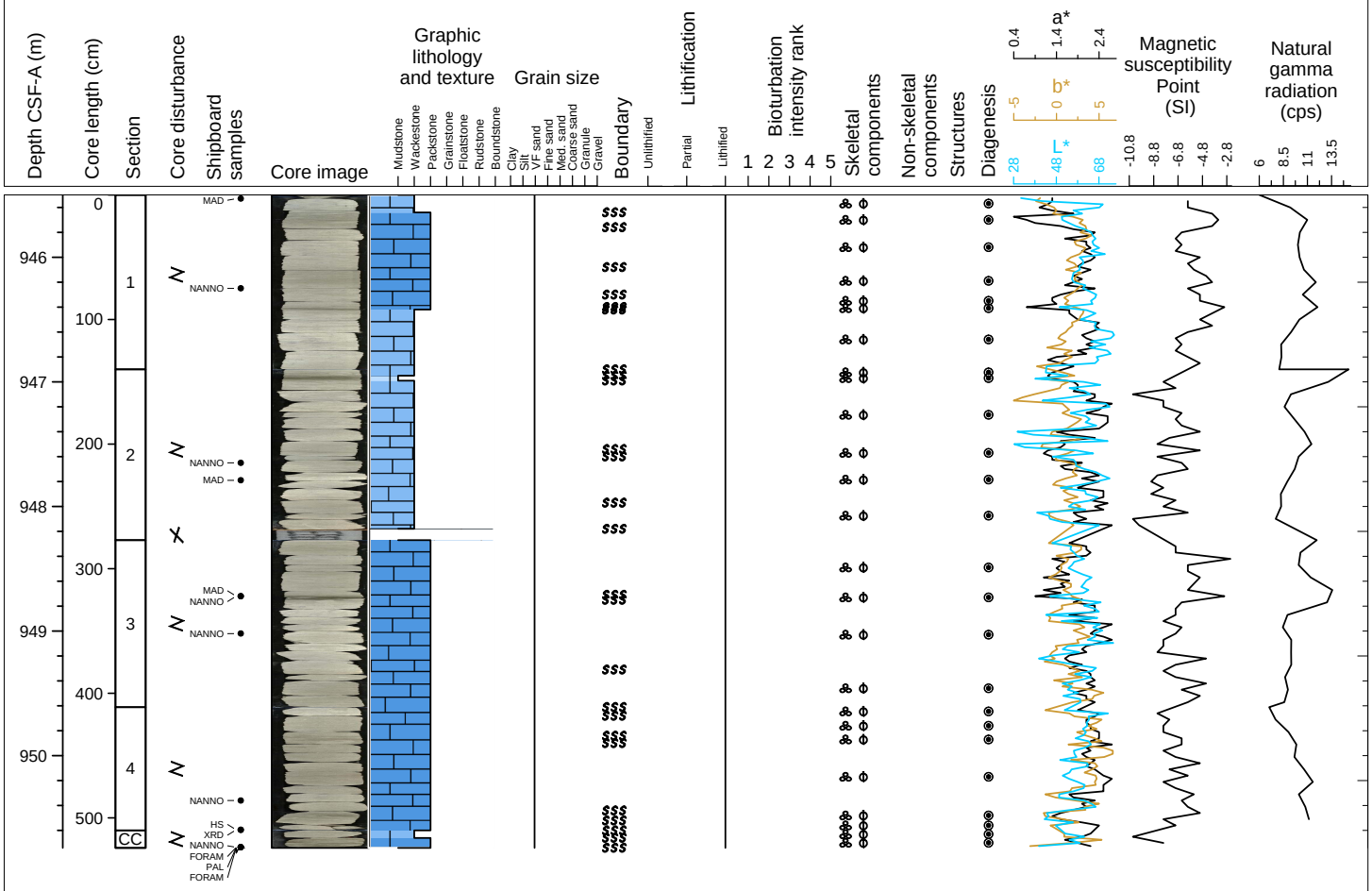
Hole 359-U1471E Core 37R, Interval 935.8-940.18 m (CSF-A)

Main lithology: Planktic foraminifera-rich PACKSTONE. Fine-grained. Lighter colored (white and light gray) and interlayered with darker colored (grayish brown and dark grayish brown) intervals. Planktic foraminifera are abundant and benthic foraminifera are few. Bioturbation is complete with common Planolites, Thalassinoides, Chondrites and Zoophycos. Phycosiphon and Palaeophycus are present. Multiple generations of burrowing, often with a coarser-grained infill and common pyrite and/or glauconite. Abundant dissolution seems in compacted intervals with darker colors. Darker intervals contain more organic matter and burrows are compacted. Contacts are gradational and bioturbated and represent changes in color. Minor: Lithology: Planktic foraminifera-rich WACKESTONE. Very fine- to fine-grained. Remarks: Few intervals laminated.



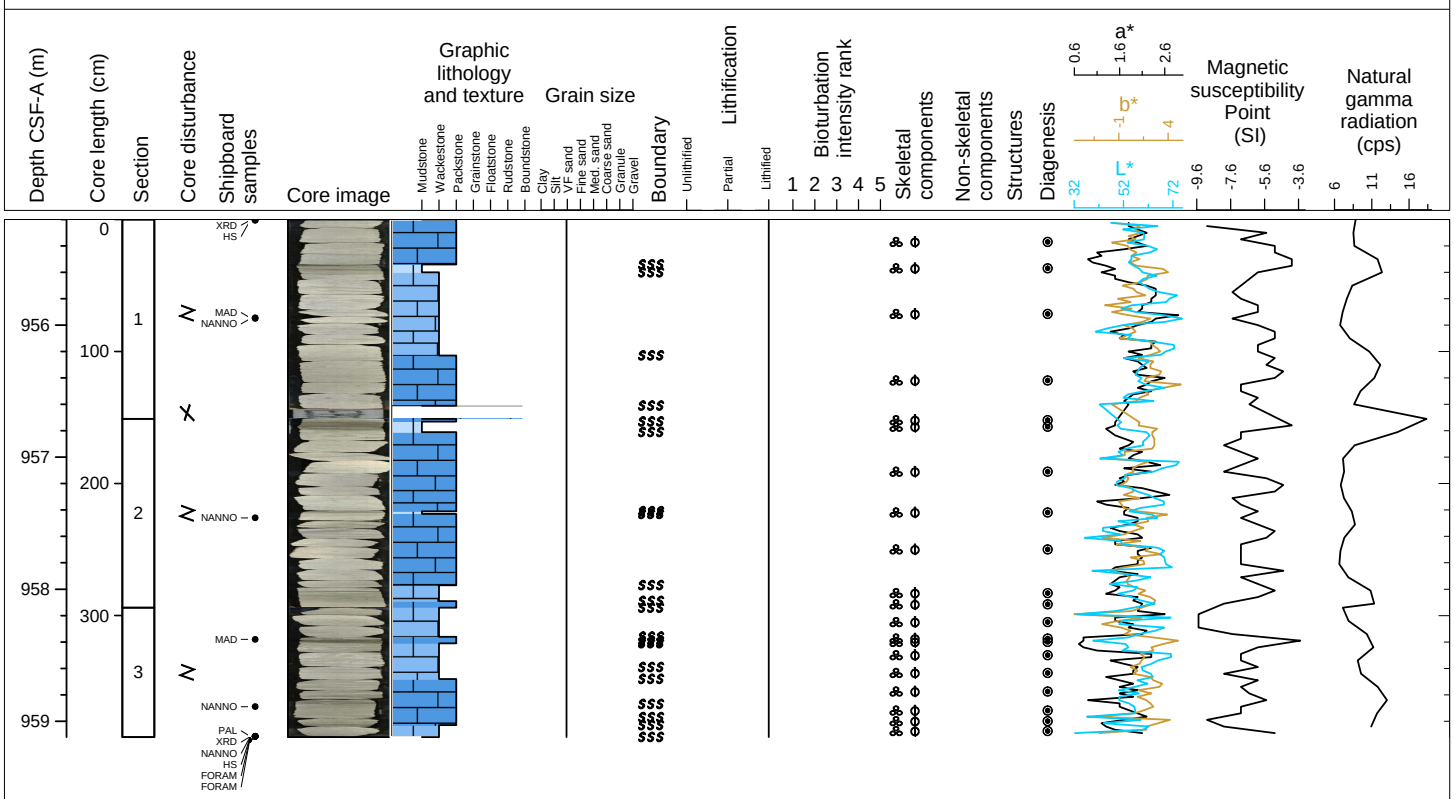
Hole 359-U1471E Core 38R, Interval 945.5-950.74 m (CSF-A)

Main lithology: Planktic foraminifera-rich PACKSTONE. Fine-grained. Lighter colored (white and light gray) and interlayered with darker colored (grayish brown and dark grayish brown) intervals. Planktic foraminifera are abundant and benthic foraminifera are few. Bioturbation is complete with common Planolites, Thalassinoides, Chondrites and Zoophycos. Phycosiphon, Palaeophycus, Scolicia are present. Multiple generations of burrowing, often with a coarser-grained infill and common pyrite and/or glauconite. Abundant dissolution seems in compacted intervals with darker colors. Darker intervals contain more organic matter and burrows are compacted. Contacts are gradational and bioturbated and represent changes in color. Minor: Lithology: WACKESTONE and MUDSTONE. Very fine- to fine-grained. Remarks: Few intervals laminated with different ichnofossils assemblage.



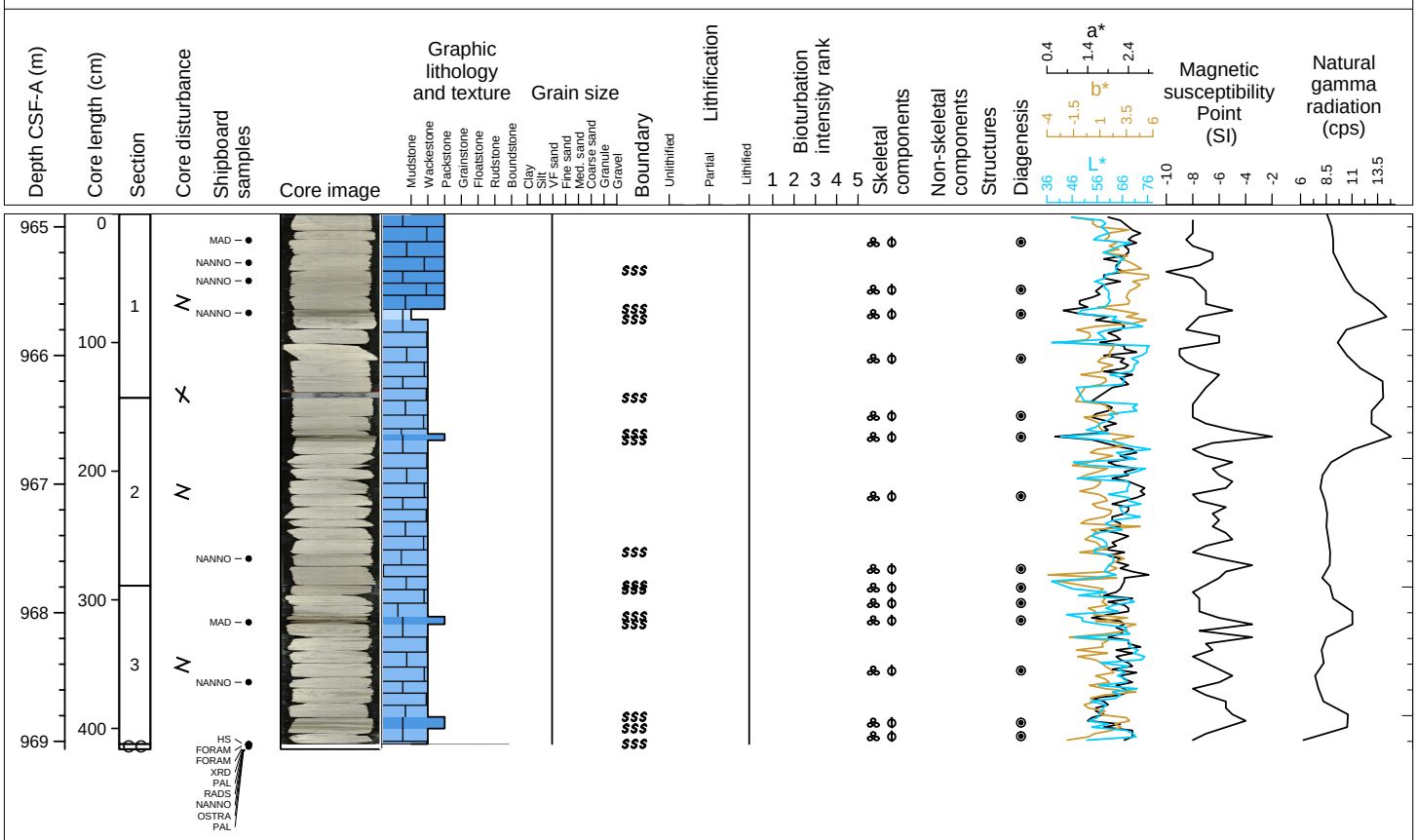
Hole 359-U1471E Core 39R, Interval 955.2-959.12 m (CSF-A)

Main lithology: Planktic foraminifera-rich WACKESTONE. Fine-grained. Lighter colored (white and light gray) and interlayered with darker colored (grayish brown and dark grayish brown) intervals. Planktic foraminifera are abundant and benthic foraminifera are few. Bioturbation is complete with common Planolites, Thalassinoides, Chondrites and Zoophycos. Phycosiphon, Palaeophycus, Scolicia and Rosselia are present. Multiple generations of burrowing, often with a coarser-grained infill and common pyrite and/or glauconite. Abundant dissolution seems in compacted intervals with darker colors. Darker intervals contain more organic matter and burrows are compacted. Contacts are gradational and bioturbated and represent changes in color. Minor: Lithology: PACKSTONE and MUDSTONE, very fine- to fine-grained. Remarks: Few intervals laminated with different ichnofossils assemblage.



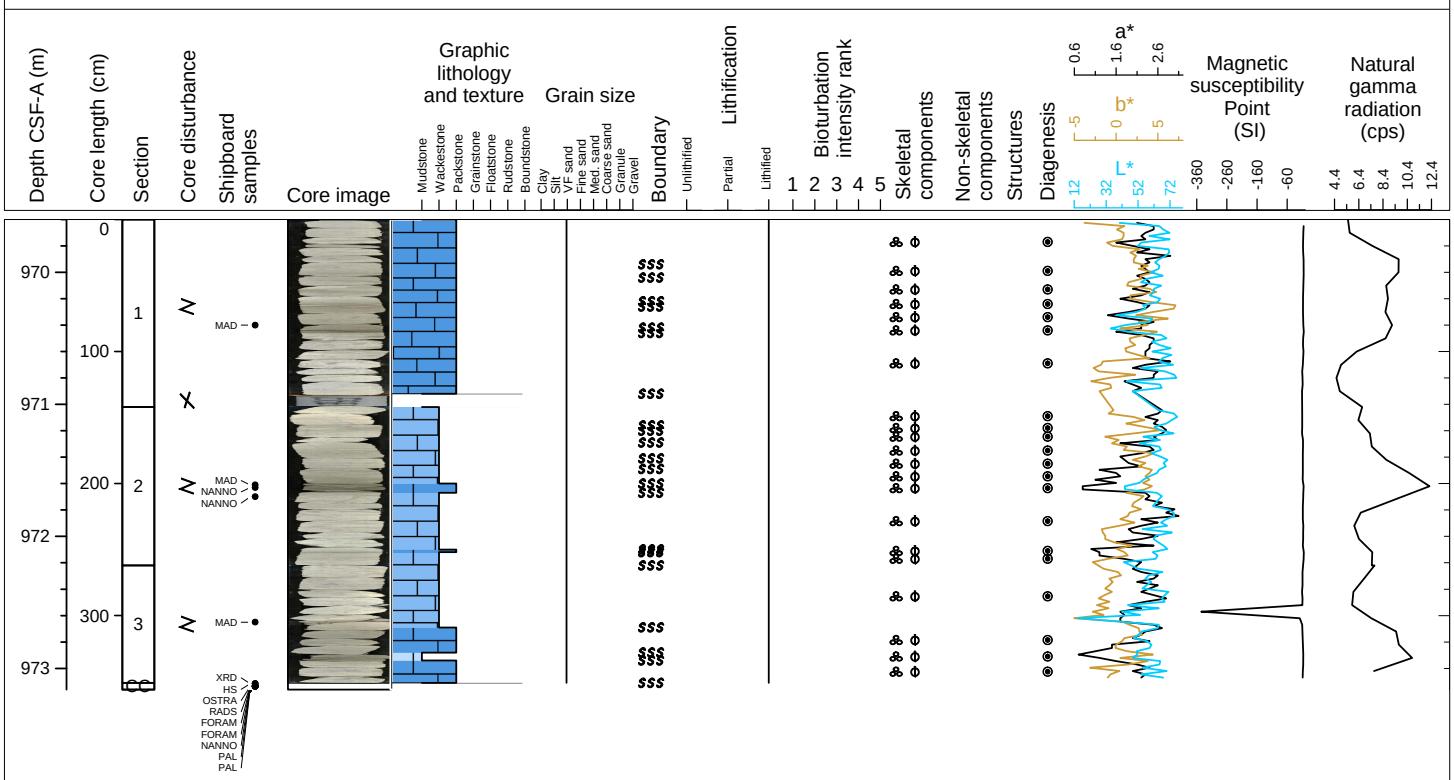
Hole 359-U1471E Core 40R, Interval 964.9-969.06 m (CSF-A)

Main lithology: Planktic foraminifera-rich WACKESTONE. Fine-grained. Lighter colored (white and light gray) and interlayered with darker colored (grayish brown and dark grayish brown) intervals. Planktic foraminifera are abundant and benthic foraminifera are few. Bioturbation is complete with common Planolites, Thalassinoides, Chondrites and Zoophycos. Phycosiphon, Trichichnus and Rosselia are present. Multiple generations of burrowing, often with a coarser-grained infill and common pyrite and/or glauconite. Abundant dissolution seems in compacted intervals with darker colors. Darker intervals contain more organic matter and burrows are compacted. Contacts are gradational and bioturbated and represent changes in color. Minor: Lithology: PACKSTONE and MUDSTONE, very fine- to fine-grained. Remarks: None



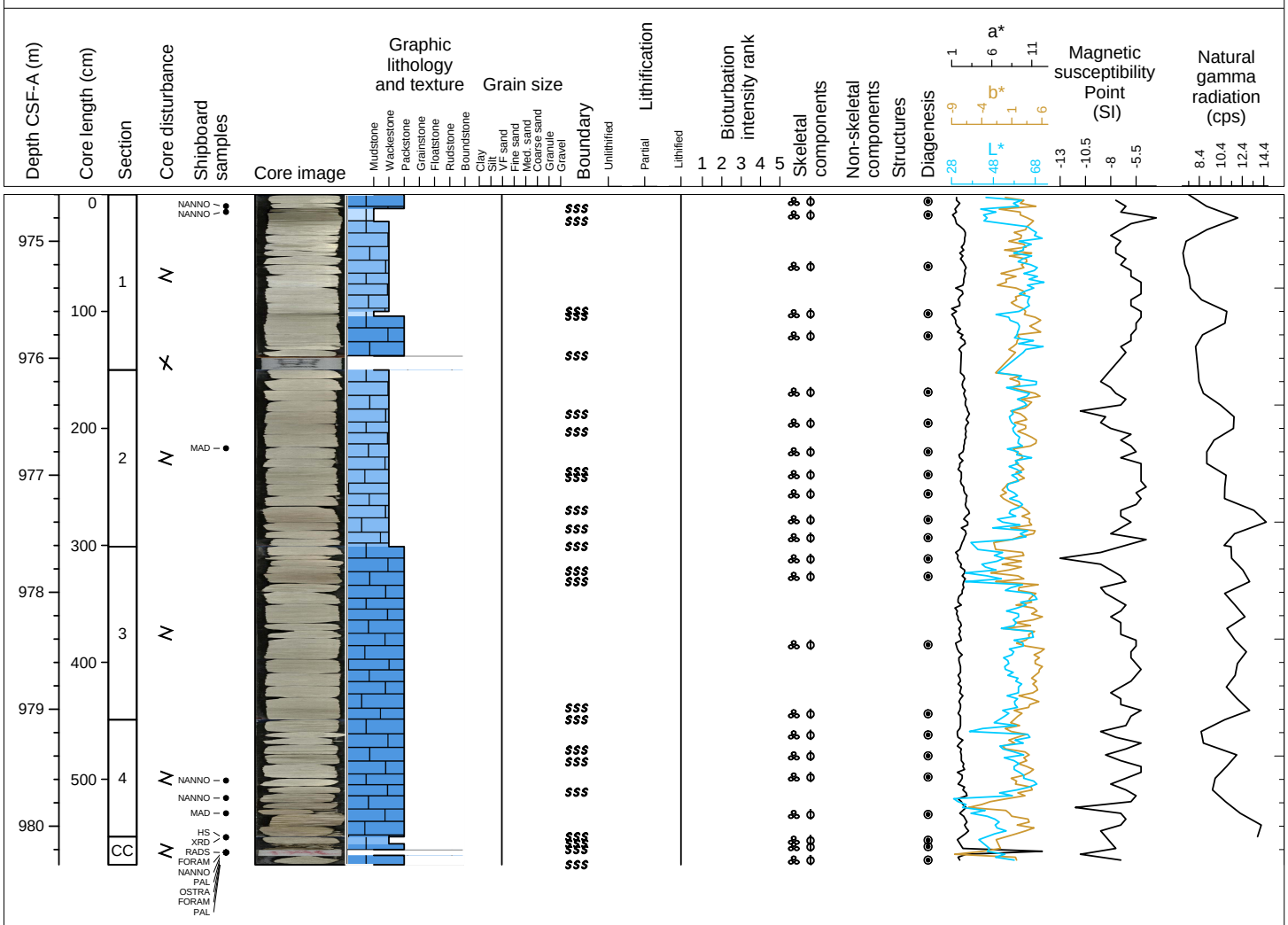
Hole 359-U1471E Core 41R, Interval 969.6-973.16 m (CSF-A)

Main lithology: Planktic foraminifera-rich WACKESTONE. Fine-grained. Lighter colored (white and light gray) and interlayered with darker colored (grayish brown and dark grayish brown) intervals. Planktic foraminifera are abundant and benthic foraminifera are few. Bioturbation is complete with common Planolites, Thalassinoides, Chondrites and Zoophycos. Phycosiphon, and Trichichnus are present. Multiple generations of burrowing, often with a coarser-grained infill and common pyrite and/or glauconite. Abundant dissolution seems in compacted intervals with darker colors. Darker intervals contain more organic matter and burrows are compacted. Contacts are gradational and bioturbated and represent changes in color. Minor: Lithology: PACKSTONE and MUDSTONE, very fine- to fine-grained. Remarks: None



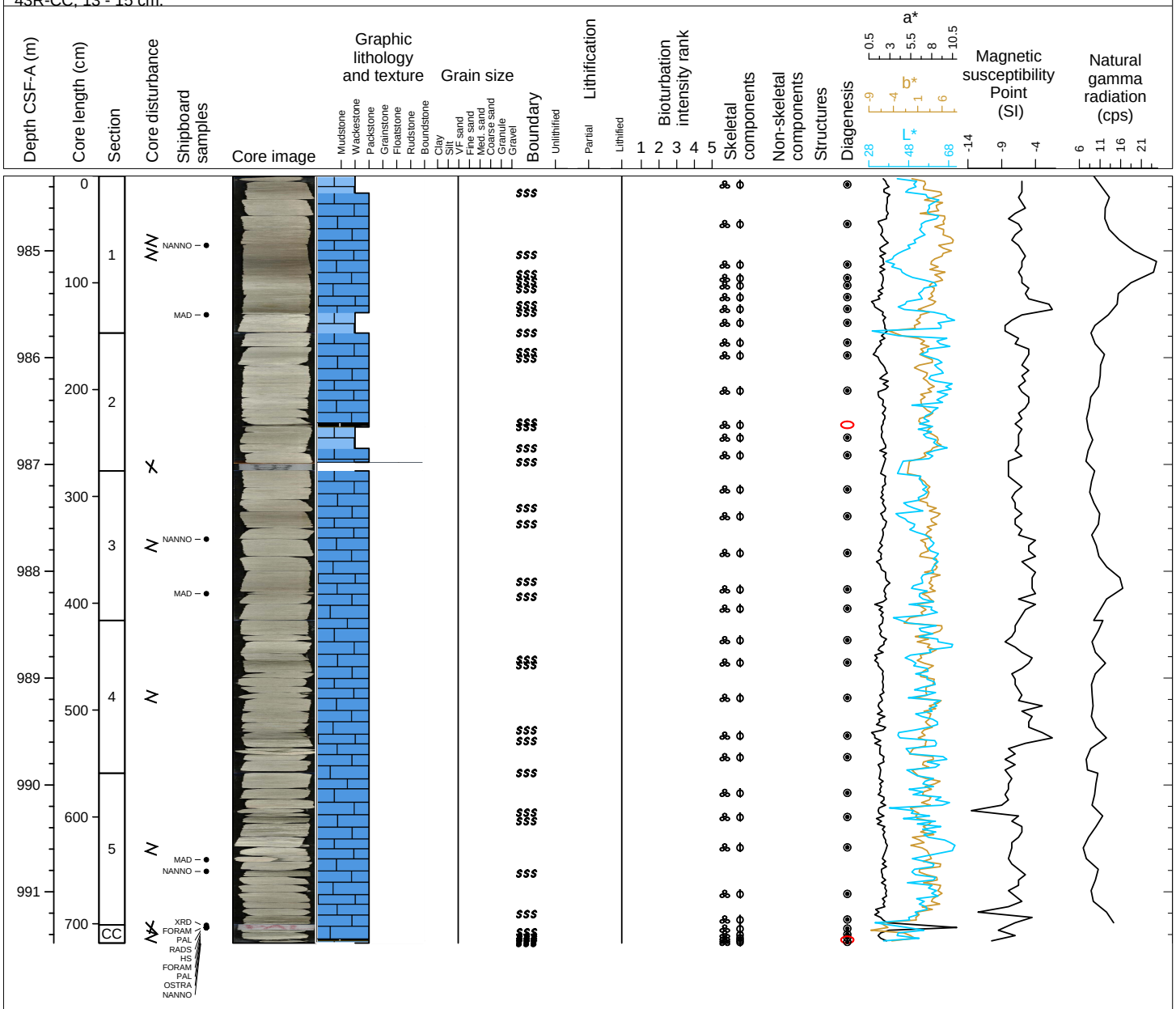
Hole 359-U1471E Core 42R, Interval 974.6-980.33 m (CSF-A)

Main lithology: Planktic foraminifera-rich WACKESTONE. Fine-grained, lighter colored (white and light gray) and interlayered with darker colored (grayish brown and dark grayish brown) intervals. Planktic foraminifera are abundant and benthic foraminifera are few. Bioturbation is complete with common Planolites, Chondrites, Zoophycos, and Phycosiphon are present. Multiple generations of burrowing, often with a coarser-grained infill and common pyrite and/or glauconite. Darker intervals contain more organic matter and burrows are compacted. Contacts are gradational and bioturbated and represent changes in color. Minor: Lithology: PACKSTONE and MUDSTONE, very fine- to fine-grained. Remarks: Abundant dissolution seems in compacted intervals with darker colors.



Hole 359-U1471E Core 43R, Interval 984.3-991.48 m (CSF-A)

Main lithology: Planktic foraminifera-rich WACKESTONE. Fine-grained, lighter colored (white) and interlayered with darker colored (grayish brown) intervals. Darker intervals show a high degree of compaction. Planktic foraminifera are abundant and benthic foraminifera are few. Bioturbation is complete with common Planolites, Chondrites, Zoophycos, and Phycosiphon are present. Multiple generations of burrowing, with common pyrite and/or glauconite infill giving a slight bluish and greenish mottle. Darker intervals contain more organic matter and burrows are compacted and dominated by Phycosiphon. Contacts are gradational and bioturbated and represent changes in color. Minor: Lithology: Burrows often with a coarser-grained PACKSTONE infill in lighter intervals and fine-grained WACKESTONE in darker intervals. Remarks: Abundant horsetail structures and common small dissolution seams in compacted darker intervals. Chert layer at 43R-CC, 13 - 15 cm.



Hole 359-U1471E Core 44R, Interval 994.0-999.95 m (CSF-A)

Major lithology: Lithified foraminifera-rich PACKSTONE to WACKESTONE. Very fine- to fine- grained, white to light gray. Abundant planktic foraminifera and bioclasts. Abundant moldic porosity. Bioturbation is common with many burrows with pyrite and glauconite alteration rims. Large burrowing communities dominate with common Planolites, Thalassinoides and Zoophycos Chondrites. Pyrite grains are common. Minor lithology: Interlayered WACKESTONE (<10 cm thick). Very fine- to fine-grained dark intervals (grayish brown to dark gray). Poorly laminated and compacted with flattened burrows, horsetail structures and abundant dissolution features. Bioturbation is common and characterized by small burrowing communities dominated by Phycosiphon. Remarks: none