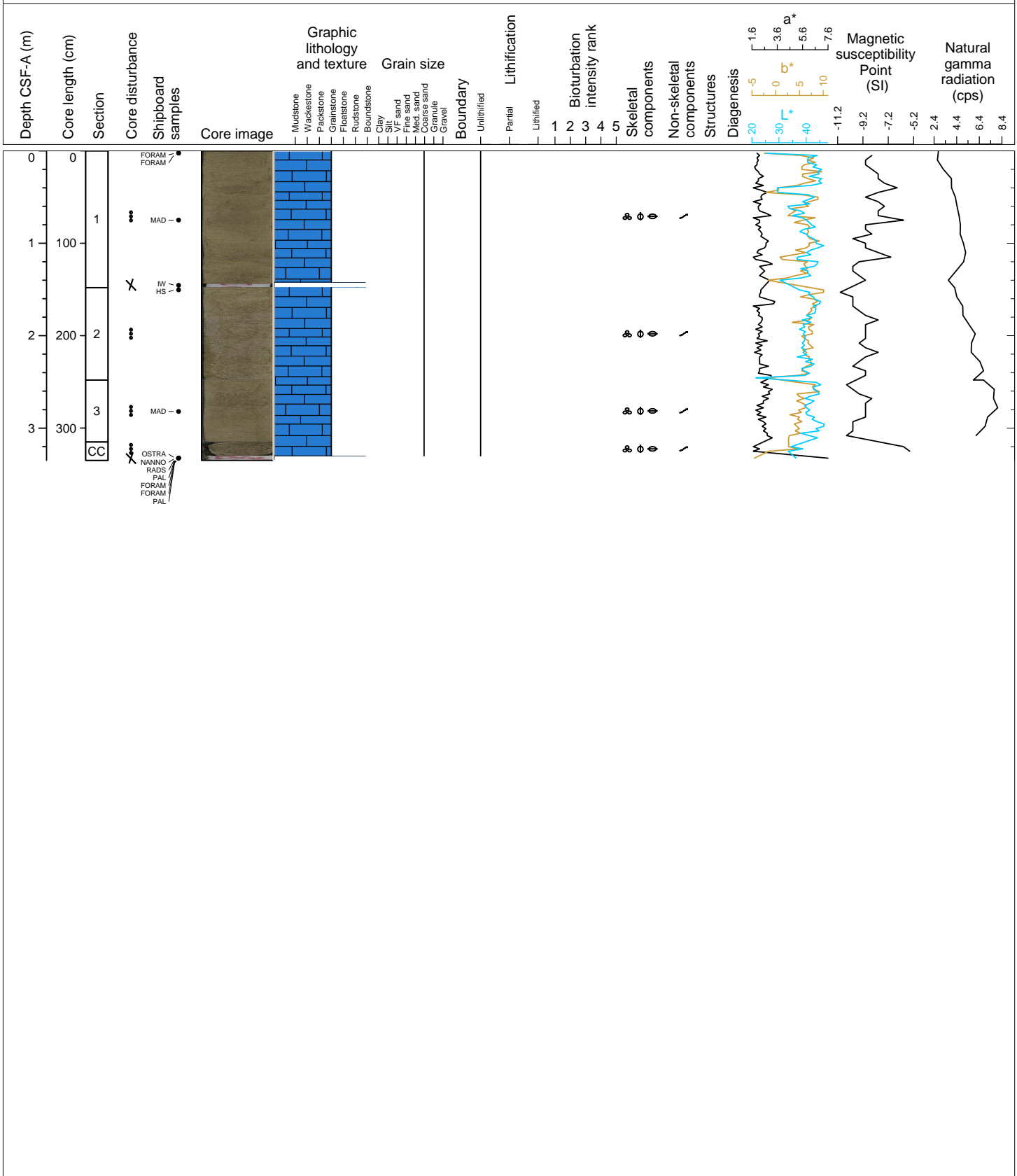


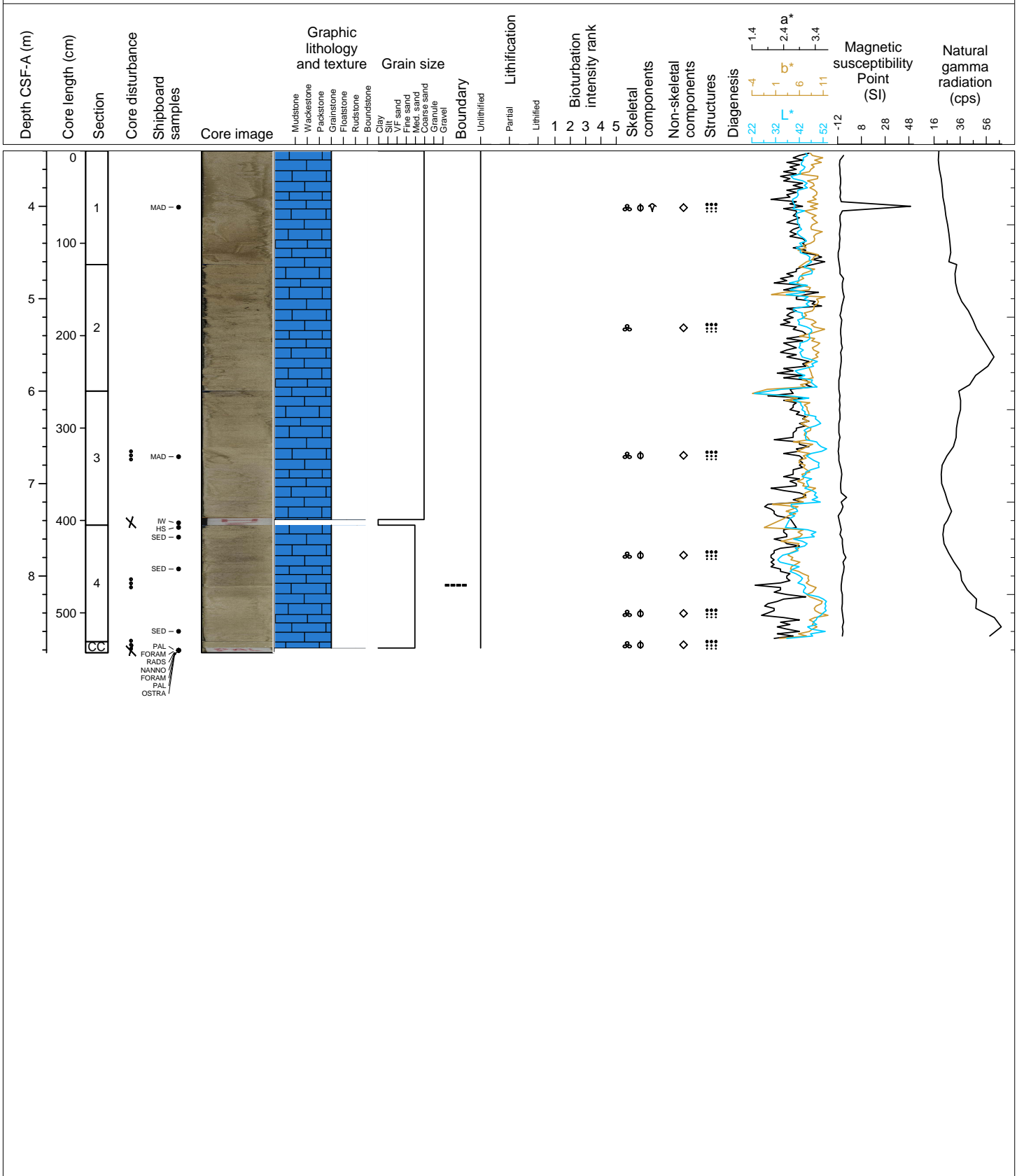
Hole 359-U1468A Core 1H, Interval 0.0-3.35 m (CSF-A)

Major lithology: Planktic foraminifera-rich GRAINSTONE. Coursed-grained, moderately sorted, light brownish gray. Planktic foraminifera are abundant. Benthic foraminifera, Halimeda plates, Pteropods, Otoliths, Echinoid fragments are common and organic matter is present. Fish teeth are rare and Sphaerogypsina globulus (pink) was recovered from the core catcher. Some bioclasts with a yellow stain indicating re-working. No fines or minor lithology were present. Minor lithology: None.



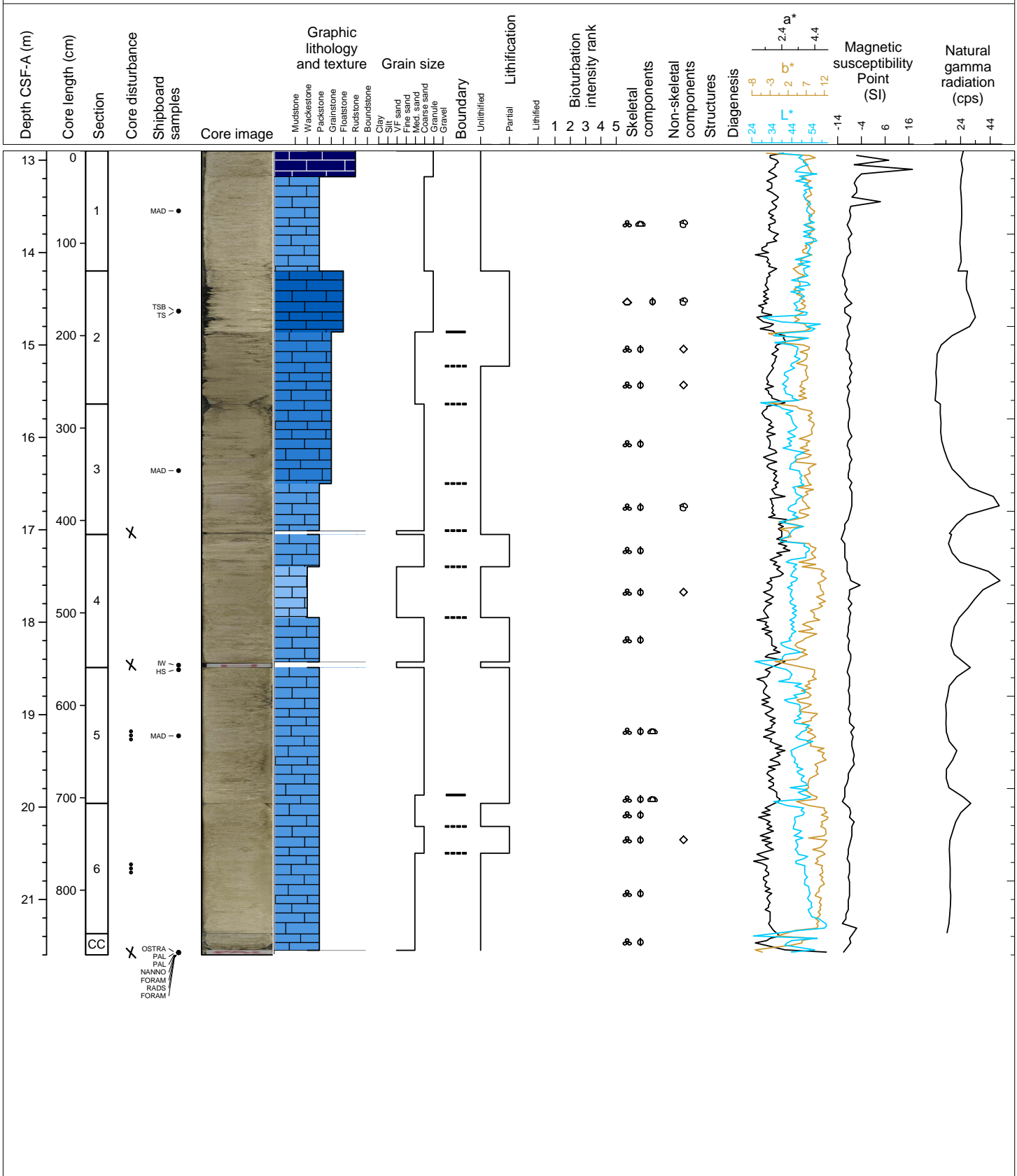
Hole 359-U1468A Core 2H, Interval 3.4-8.83 m (CSF-A)

Major lithology: Planktic foraminifera-rich GRAINSTONE. Planktic foraminifera-rich GRAINSTONE. Medium to coarse-grained, poorly-sorted. Planktic foraminifera and benthic foraminifera are abundant (Sphaerogypsina globulus). Pteropod and Halimeda are few with rare Bryozoa and echinoderm spines. Black grains and yellow stained grains are present. Minor lithology: Poorly washed gravel with minor mud component.



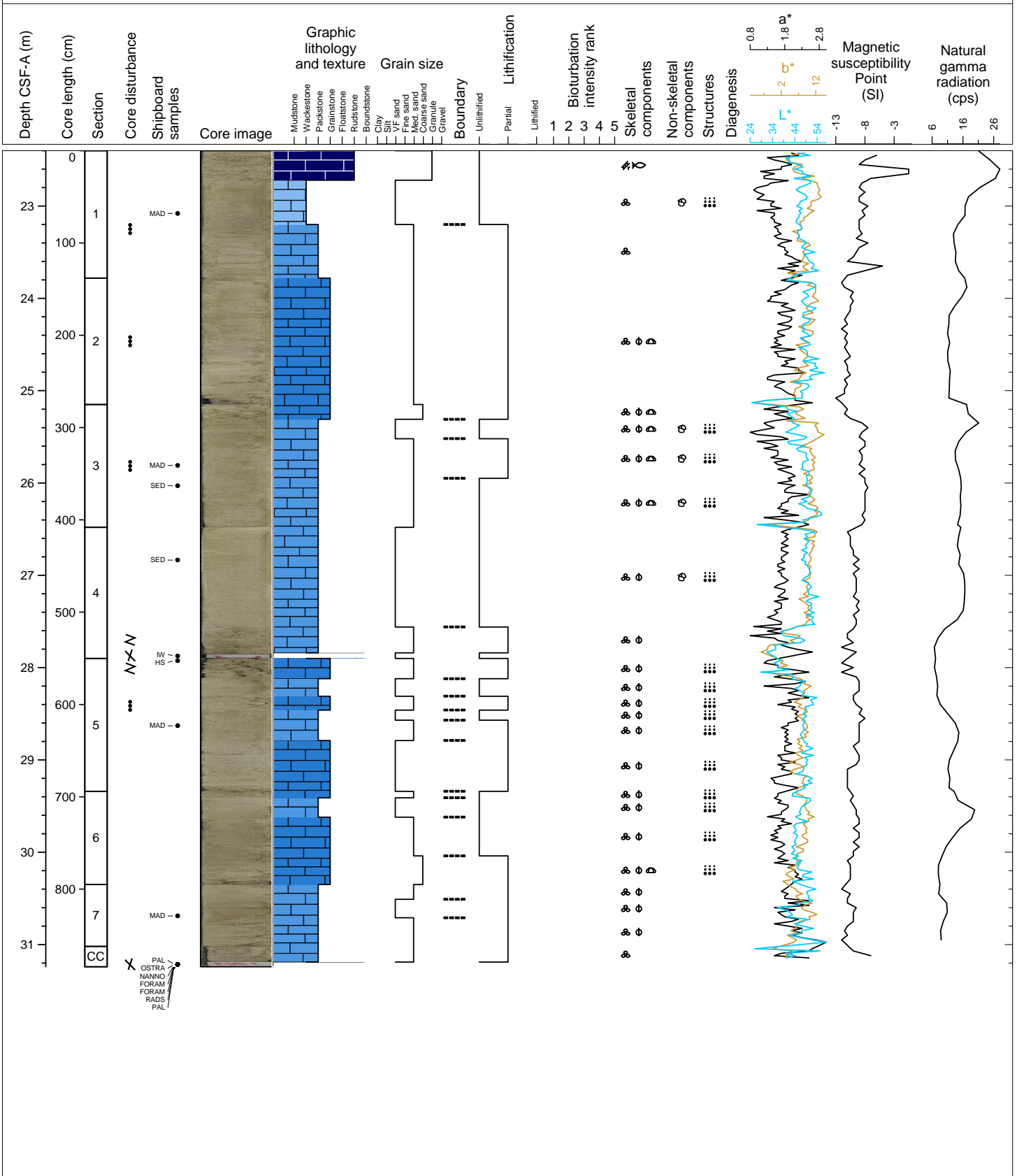
Hole 359-U1468A Core 3H, Interval 12.9-21.6 m (CSF-A)

Major lithology: Unlithified to partially lithified planktic foraminifera-rich PACKSTONE to GRAINSTONE (alternating), minor WACKESTONE. Moderately to very-well sorted, medium- to coarse-grained, one very-fine interval. Planktic foraminifera are abundant. Benthic foraminifera, shell fragments and echinoderm spines are rare. Black grains and yellow stained grains are present as well as cemented grains. Light gray to light brownish gray. Minor lithology: Partially lithified cemented clast-rich FLOATSTONE. Poorly-sorted, granule grained. Halimeda is abundant, common bioclastic grains, benthic (including encrusting) and planktic foraminifera. Corals are present. White. Remarks: Cave-in top 28cm, thin section at 359-U1468A-3H-2, 43cm.



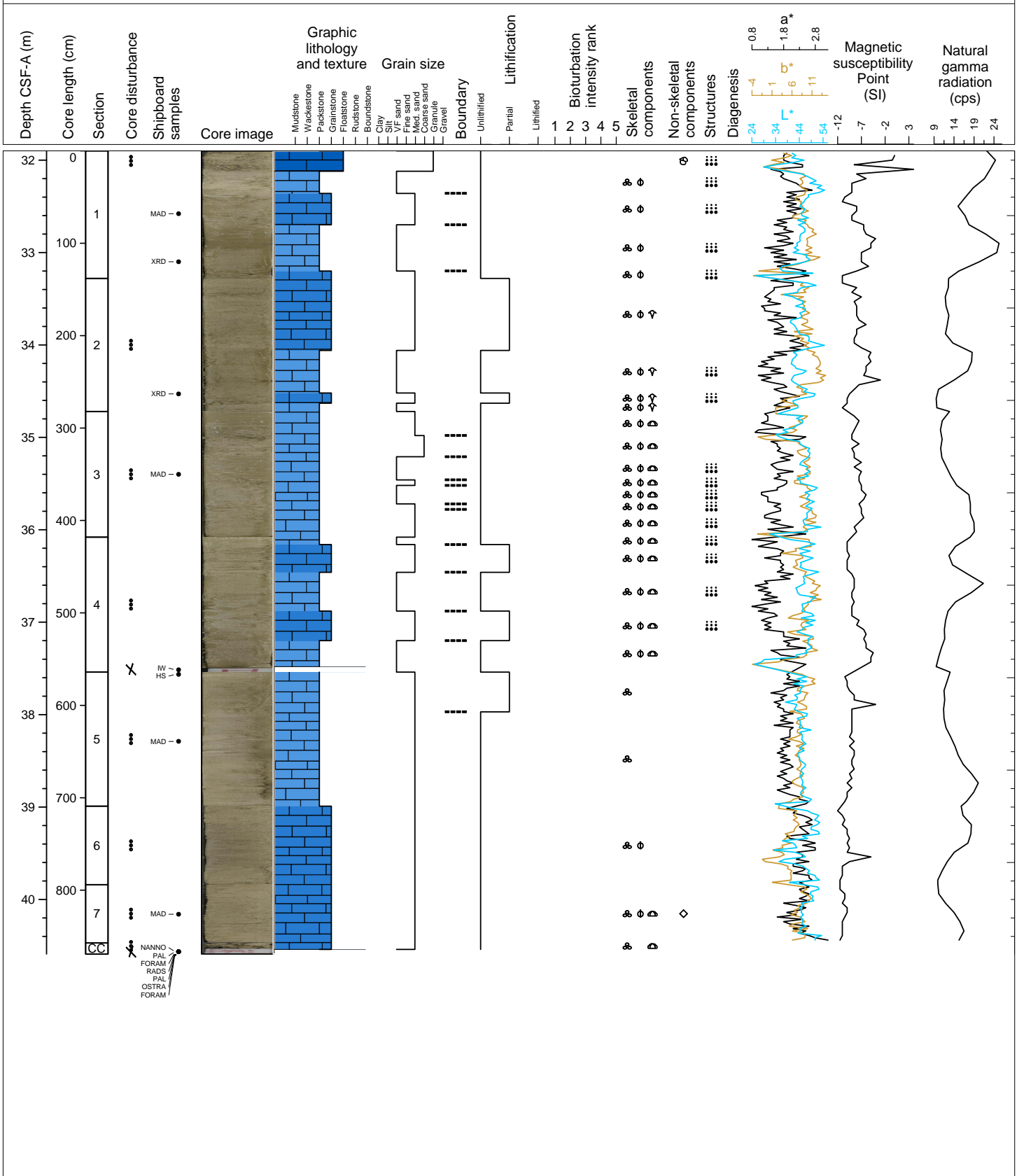
Hole 359-U1468A Core 4H, Interval 22.4-31.24 m (CSF-A)

Major lithology: Unlithified to partially lithified planktic foraminifera-rich PACKSTONE to GRAINSTONE (alternating), minor WACKESTONE. Medium layered with fine interlayers, 10-20 cm Fining-up layers. Poorly- to very well-sorted, alternating. Very fine- to coarse-grained, alternating. Planktic foraminifera are abundant. Otoliths are common to absent. Benthic foraminifera, shell fragments and echinoderm spines are rare. Black grains and yellow stained grains are present as well as cemented grains. Pale yellow to light brownish gray. Minor lithology: None. Remarks: Cave-in top 32cm, Smear slide at 359-U1468A-4H-4, 35cm. Fining-up successions sections 5 to 7 (28.12 to 31.19 mbsf).



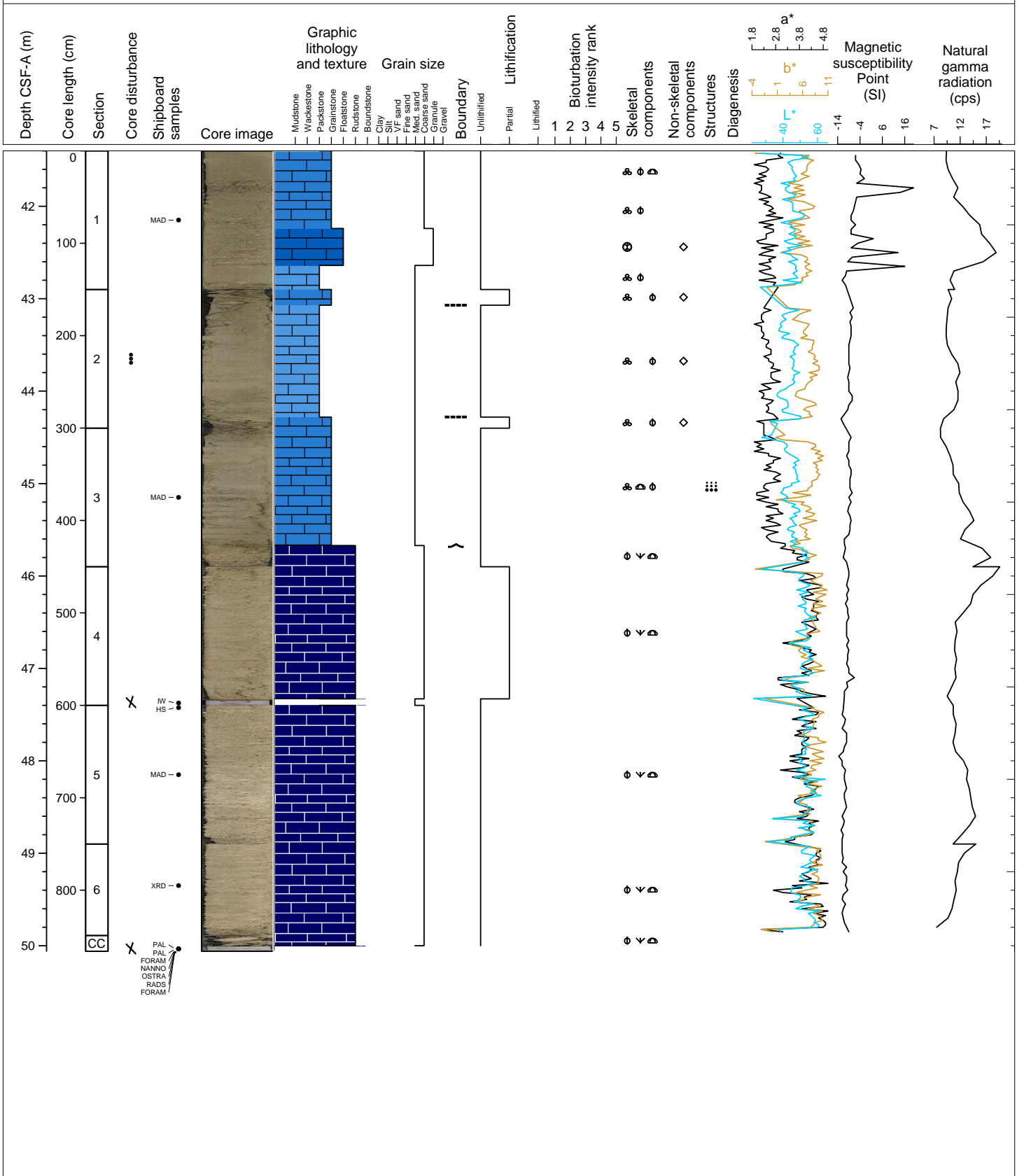
Hole 359-U1468A Core 5H, Interval 31.9-40.59 m (CSF-A)

Major lithology (to 37.20 mbsf): Unlithified to partially lithified planktic foraminifera-rich PACKSTONE to GRAINSTONE (alternating). Medium layered with fine interlayers, 10s to ~100 cm Fining-up layers. Poorly- to very well-sorted, alternating. Very fine- to coarse-grained, alternating. Planktic foraminifera are abundant, otoliths are common, and Echinodermata and benthic foraminifera are rare. White to light brownish gray. Minor lithology (37.20 to 40.59 mbsf): Unlithified to partially lithified planktic foraminifera-rich GRAINSTONE to PACKSTONE. Poorly- to very well-sorted, alternating. Medium-grained Planktic foraminifera are abundant, otoliths are common, benthic foraminifera are rare. Light gray to brownish gray. Remarks: Cave-in top 22cm, XRD samples at 359-U1468A-5H-1, 120cm and at 359-U1468A-5H-2, 125cm.



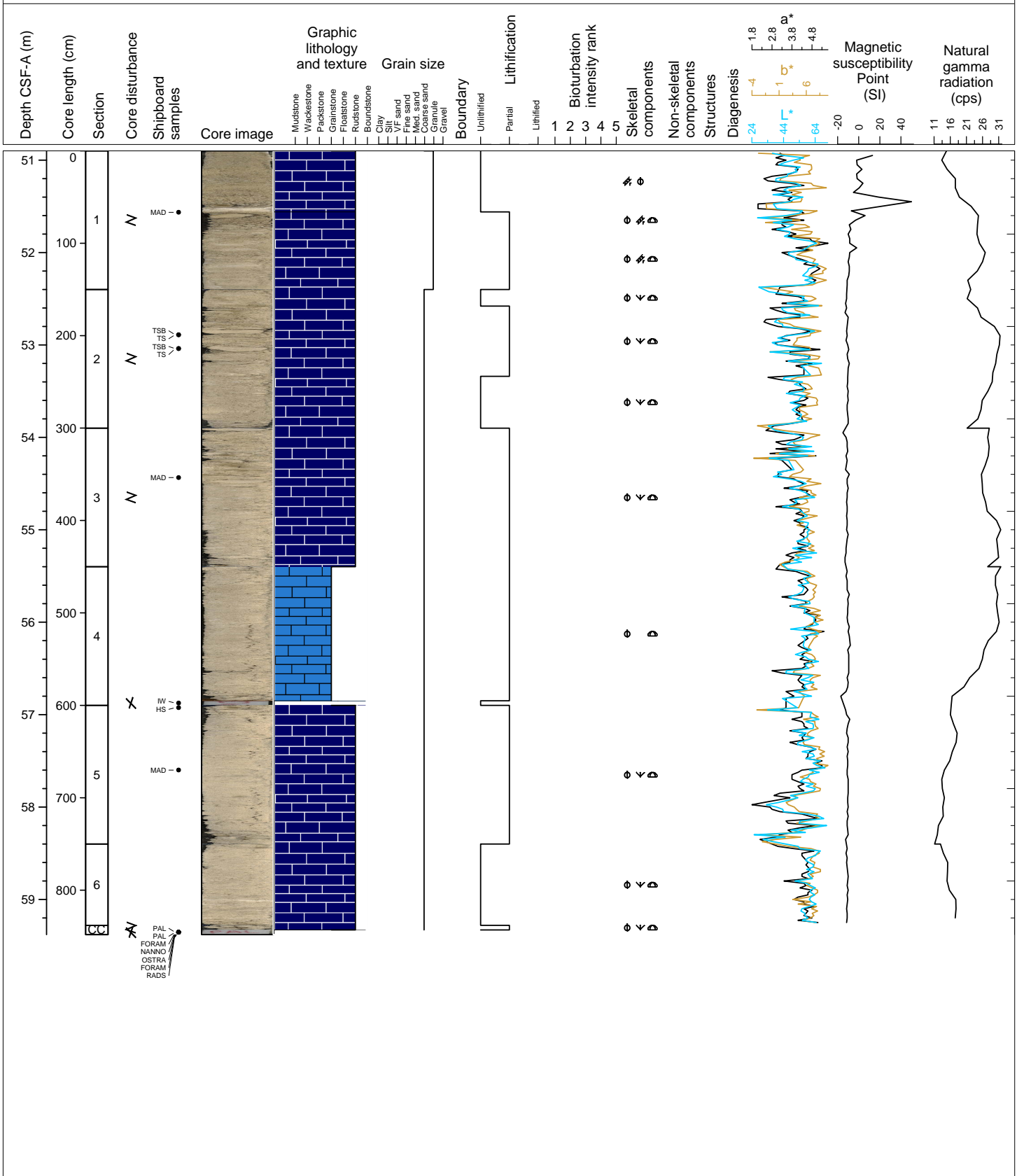
Hole 359-U1468A Core 6H, Interval 41.4-50.06 m (CSF-A)

Major lithology (45.67 to 50.00 mbsf): Unlithified to partially lithified large benthic foraminifera-rich RUDSTONE. Poorly-sorted. Coarse- to granule-grained. Large benthic foraminifera are abundant (identified: Sphaerogypsina globulus, Lepidocyclina and Amphistegina), common bryozoa and echinoderm spines, few red algae, bivalve are rare (occur in single horizon at 48.46 mbsf). Pale yellow to very pale brown. Minor lithology (41.40 to 45.67 mbsf): Unlithified to partially lithified planktic foraminifera-rich GRAINSTONE. Well- to very well-sorted. Medium-grained. Planktic foraminifera are abundant, otoliths are common, and few black grains; Echinodermata and benthic foraminifera are rare. Light gray. Remarks: Extensive cave-in and flow-in top 124cm, pseudo-layered. First occurrence of Miocene age large benthic foraminifera at 45.66 mbsf.



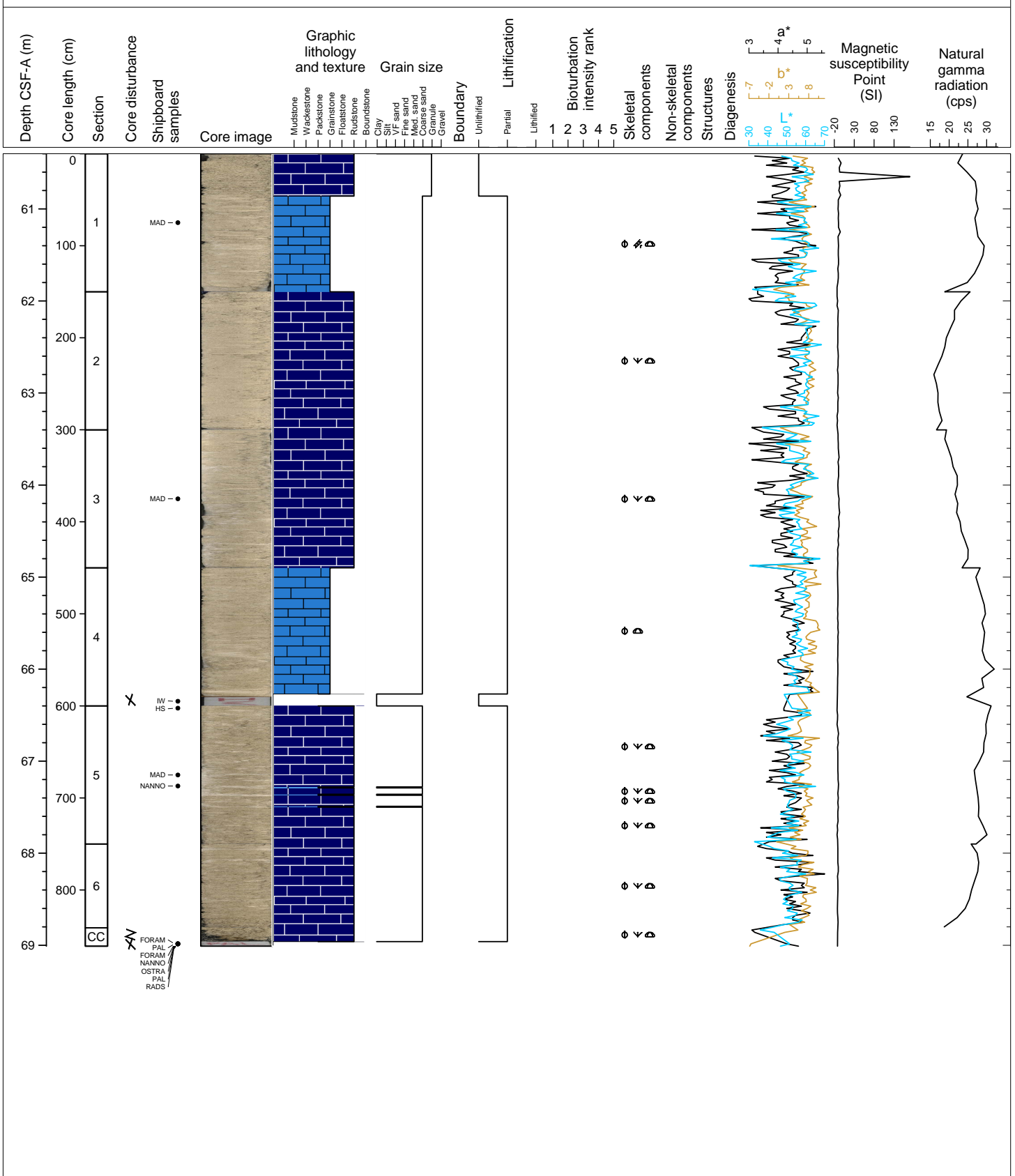
Hole 359-U1468A Core 7H, Interval 50.9-59.38 m (CSF-A)

Major lithology: Unlithified to partially lithified large benthic foraminifera-rich RUDSTONE to GRAINSTONE. Poorly-sorted. Coarse- to granule-grained. Large benthic foraminifera are abundant (identified: Sphaerogypsina globulus, Lepidocyclina and Amphistegina), common bryozoa and echinoderm spines, few shell fragments. Pale yellow to very pale brown. Minor lithology: Unlithified to partially lithified benthic foraminifera-rich PACKSTONE interlayers. Very fine- to fine-grained, well sorted. White. Distinctly separated from the RUDSTONE/GRAINSTONE. Remarks: Two thin sections, one at 359-U1468A-7H-2, 44-46cm; second at 359-U1468A-7H-2, 65-67cm.



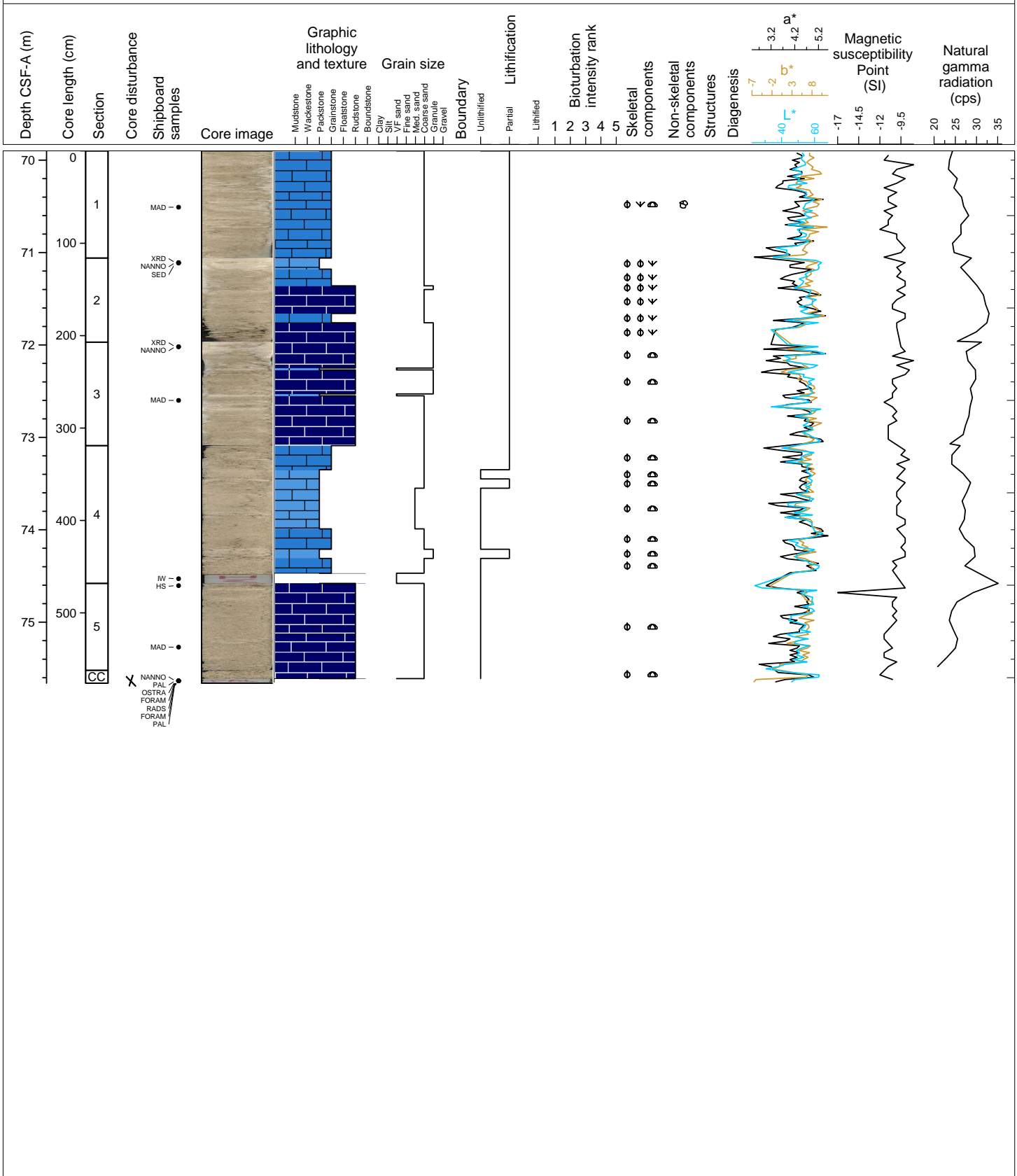
Hole 359-U1468A Core 8H, Interval 60.4-69.01 m (CSF-A)

Major lithology: Unlithified to partially lithified large benthic foraminifera-rich RUDSTONE to GRAINSTONE. Poorly-sorted. Coarse- to granule-grained. Large benthic foraminifera are abundant (identified: *Lepidocyclina* and *Amphistegina*, with *Sphaerogypsina globulus* present only in section 6, common bryozoa and echinoderm spines, few shell fragments, rare red algae. Pale yellow to very pale brown. Minor lithology: Unlithified to partially lithified benthic foraminifera-rich PACKSTONE interlayers. Very fine- to fine-grained, well sorted. Comprised primary of tunicate needles. White. Not consistently distinctly separated from the RUDSTONE/GRAINSTONE. Remarks: more abundant interlayers relative to core 7H.



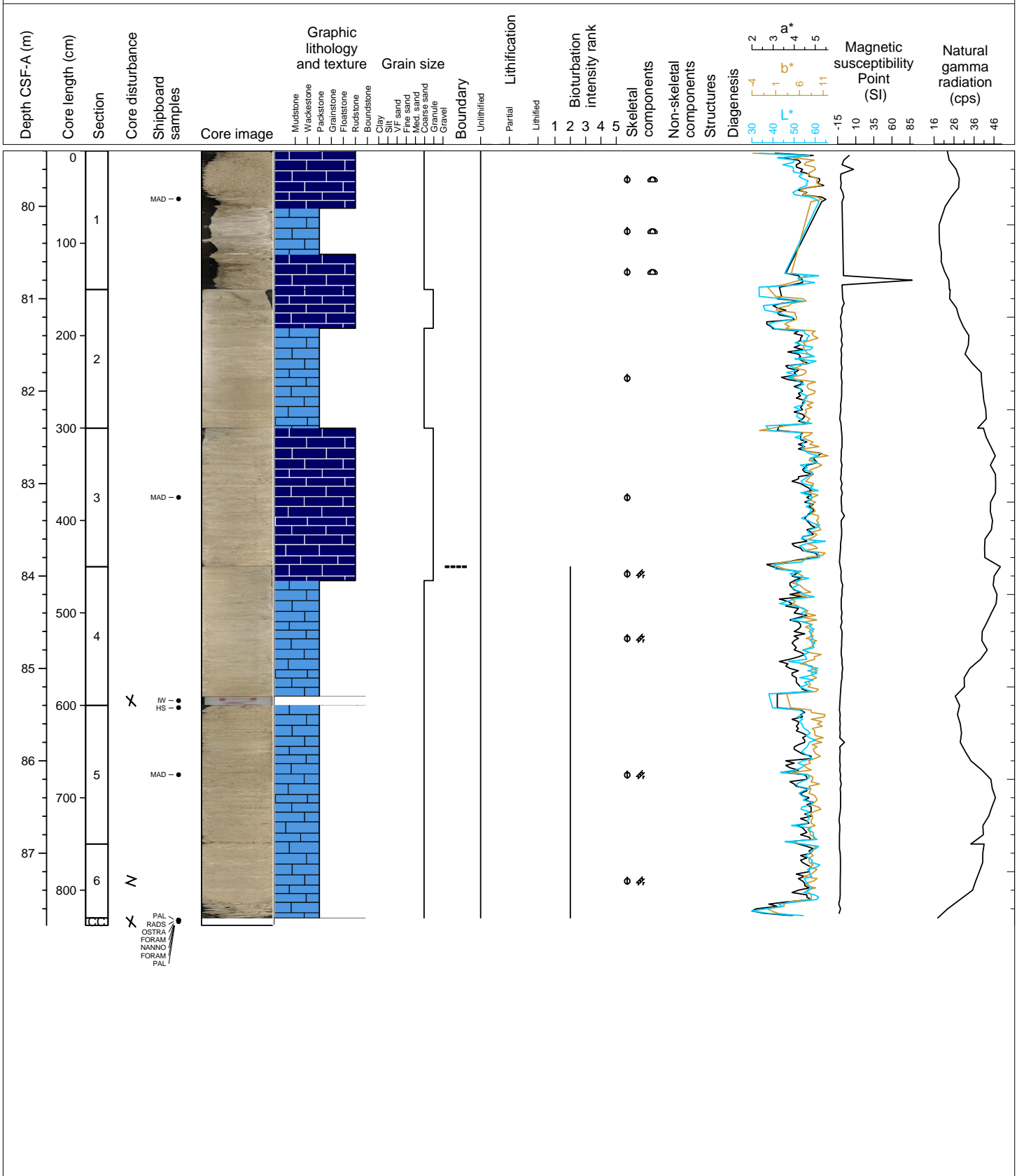
Hole 359-U1468A Core 9H, Interval 69.9-75.66 m (CSF-A)

Major lithology: Unlithified to partially lithified large benthic foraminifera-rich RUDSTONE to GRAINSTONE (if interlayers cannot be resolved, FLOATSTONE to PACKSTONE). Poorly-sorted. Coarse- to granule-grained. Large benthic foraminifera are abundant (identified: Sphaerogypsina globulus, Lepidocyclina and Amphistegina), common echinoderm spines, rare shell fragments and bryozoan. White to very pale brown. Minor lithology: Unlithified to partially lithified benthic foraminifera-rich PACKSTONE to MUDSTONE interlayers and as burrow infill associated with bioturbation. Very fine- to fine-grained, well sorted, white. Comprised primary of tunicate needles and minor dolomite rhombs (Smear slide). Remarks: Smear slide at 359-U1468A-9H-2, 09 cm (muddy interlayer). Possible planktic foraminifera 359-U1468A-9H-2, 00-12 cm (sent to paleontology).



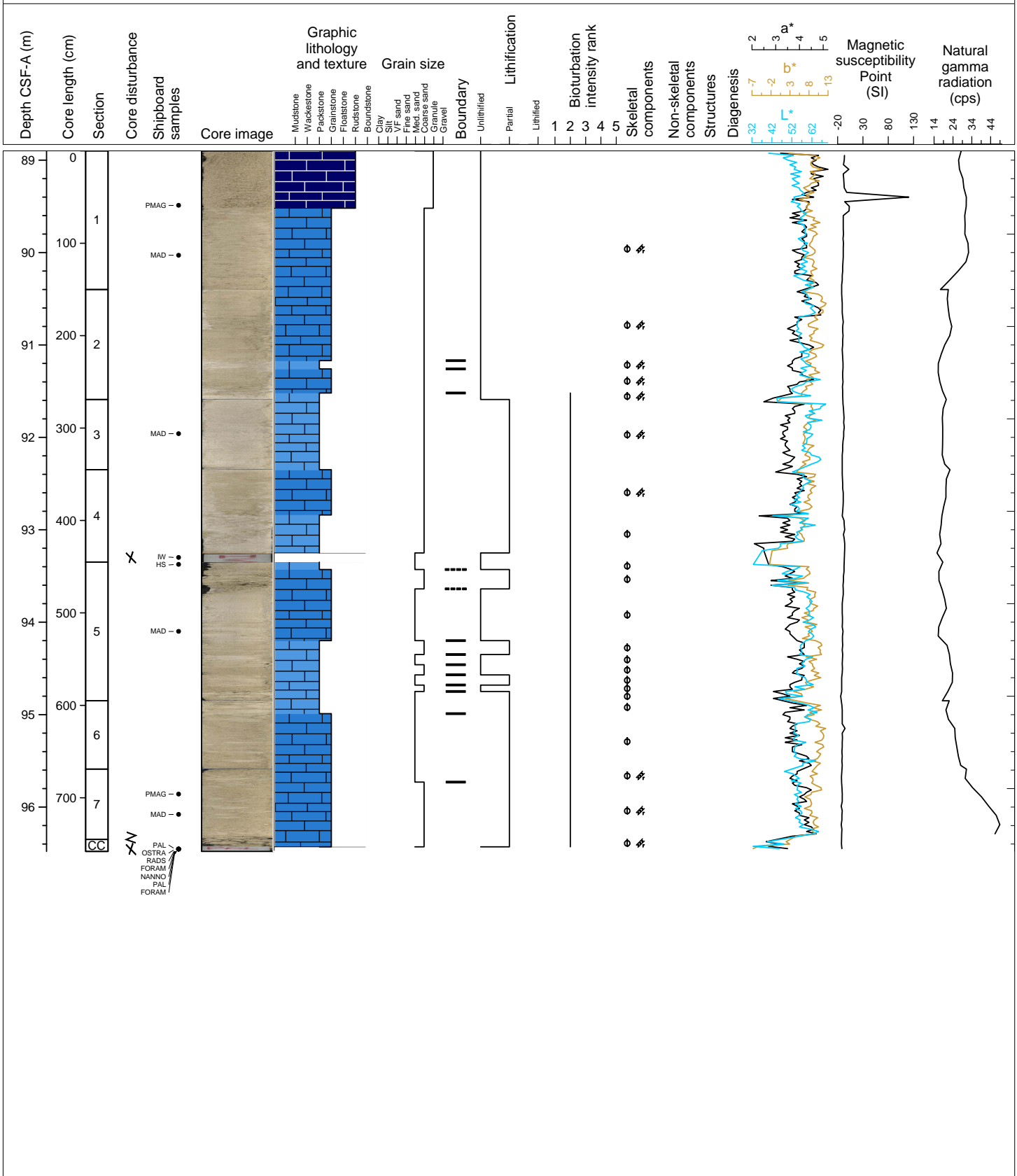
Hole 359-U1468A Core 10H, Interval 79.4-87.78 m (CSF-A)

Major lithology: Unlithified large benthic foraminifera-rich RUDSTONE to GRAINSTONE. Coarse- to granule-grained, poorly-sorted, white to very pale brown. Large benthic foraminifera are abundant (Sphaerogypsina globulus, Lepidocyclina and Amphistegina), common red algae and few echinoderm spines. Minor lithology: Unlithified medium-grained white PACKSTONE occurs as isolated burrow infill throughout the core. Abundant tunicates. Remarks: Bioturbation is slight and characterized by the PACKSTONE infill.



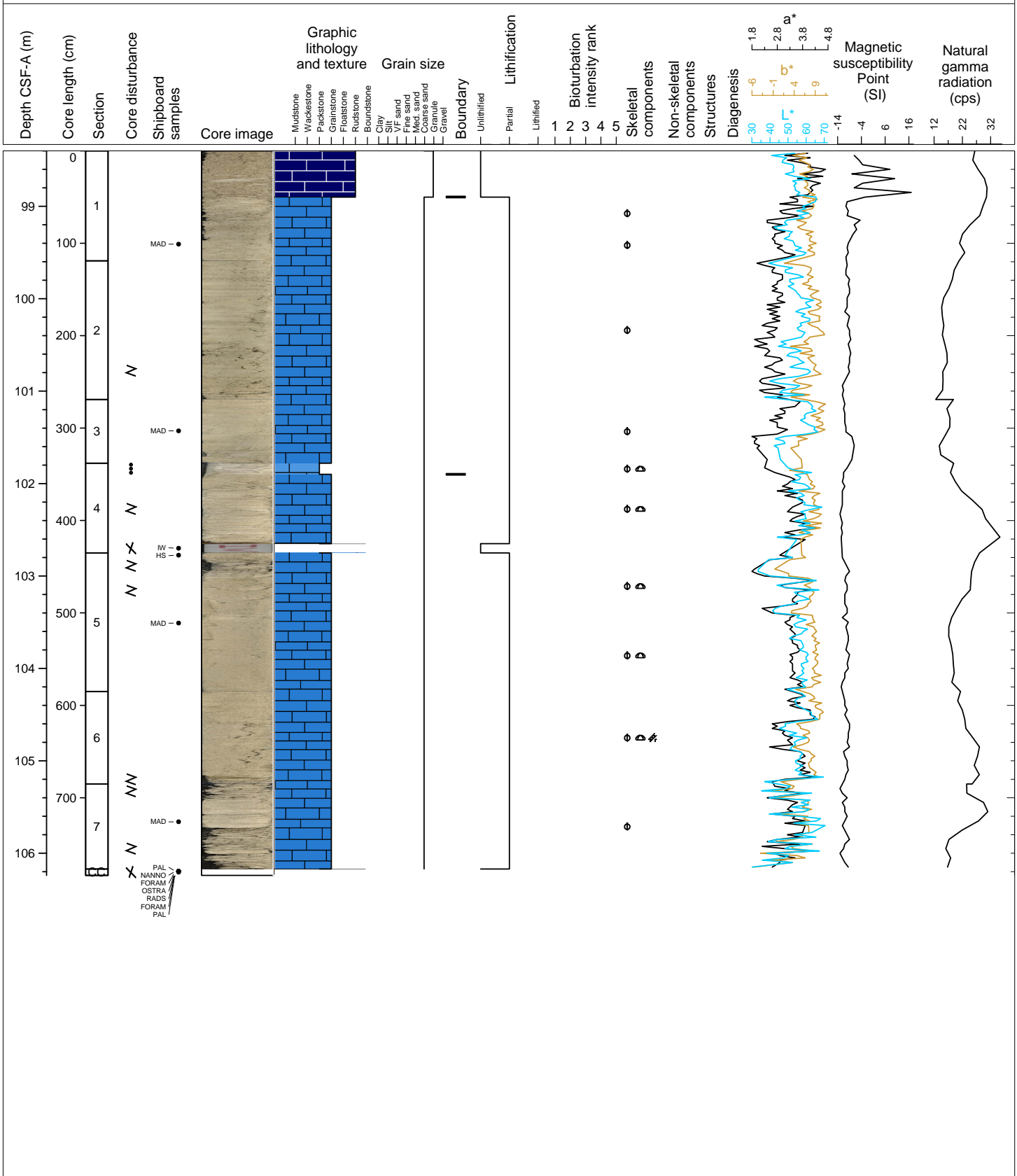
Hole 359-U1468A Core 11H, Interval 88.9-96.48 m (CSF-A)

Major lithology: Interlayered unlithified and partially lithified large benthic foraminifera-rich GRAINSTONE to PACKSTONE. Medium to coarse-grained, poorly-sorted, white to very pale brown. Large benthic foraminifera are abundant (Sphaerogypsina globulus, Lepidocyclina and Amphistegina), common red algae and few echinoderm spines. Towards the base of the core (11H-7A) Bryozoans and red algae are present, Echinoid spines are few. Minor lithology: Unlithified medium-grained white GRAINSTONE Remarks: The core is characterized by medium (10s cm) interlayered partially lithified medium-grained PACKSTONE, within the unlithified coarse-grained PACKSTONE to GRAINSTONE. Bioturbation also occurs lower in the core (11H-7A) and is slight and characterized by the PACKSTONE infill.



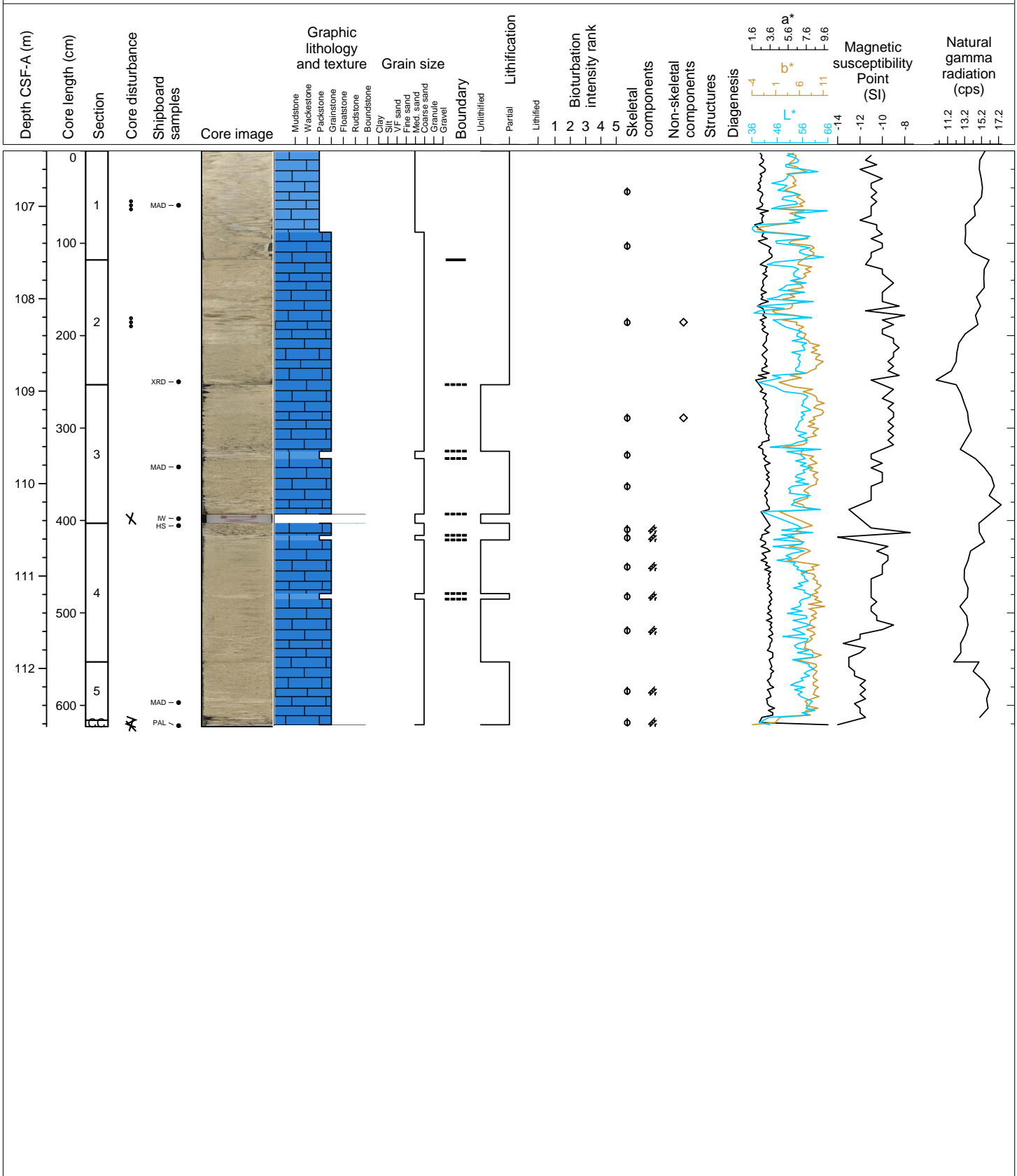
Hole 359-U1468A Core 12H, Interval 98.4-106.24 m (CSF-A)

Major lithology: Interlayered unlithified and partially lithified large benthic foraminifera-rich GRAINSTONE. Coarse-grained, poorly-sorted, white to very pale brown. Large benthic foraminifera are abundant (Sphaerogypsina globulus, Lepidocyclina and Amphistegina). Red algae and echinoderm spines are present. Minor lithology: Minor unlithified medium-grained PACKSTONE as very thin interlayers (1-2 cm). Remarks: The core is characterized by thin to very thin (< 5 cm) interlayered PACKSTONE. Strange thing photographed - See Anna



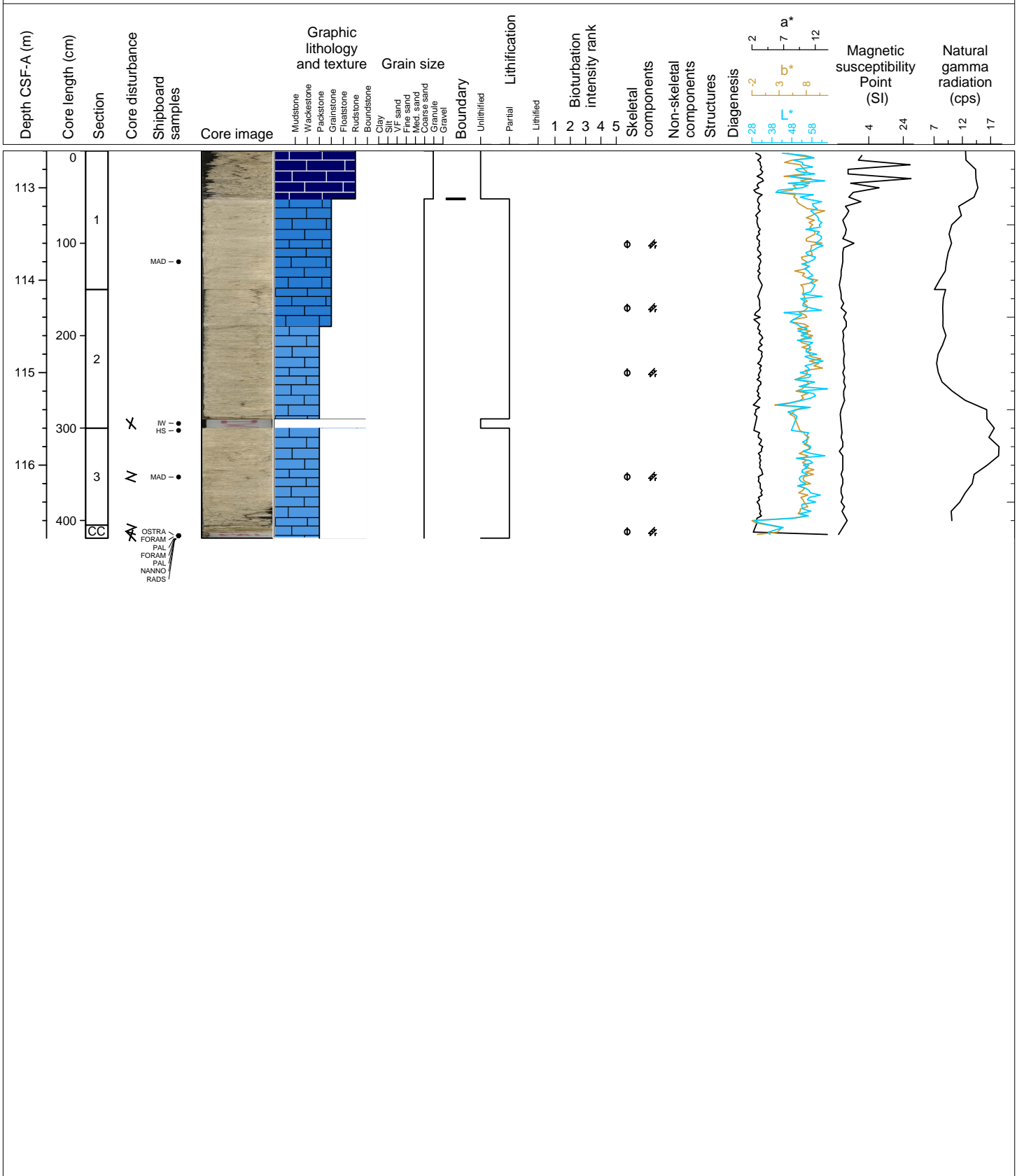
Hole 359-U1468A Core 13H, Interval 106.4-112.63 m (CSF-A)

Major lithology: Interlayered unlithified to partially lithified benthic foraminifera-rich GRAINSTONE with interlayered PACKSTONE (<2 cm) between H5 36 cm to 48 cm. Coarse-grained, poorly-sorted. Large benthic foraminifera are abundant (identified: Sphaerogypsina globulus, Lepidocyclina and Amphistegina). Bryozoan fragments, red algae and echinoderm spines are present, and few grain aggregates. Organic matter concentrated in burrows. Minor lithology: PACKSTONE (white calcareous mud matrix) and very thin interlayers in 13H-5. Remarks: Photo of brown/gray clast with encrusting red algae.



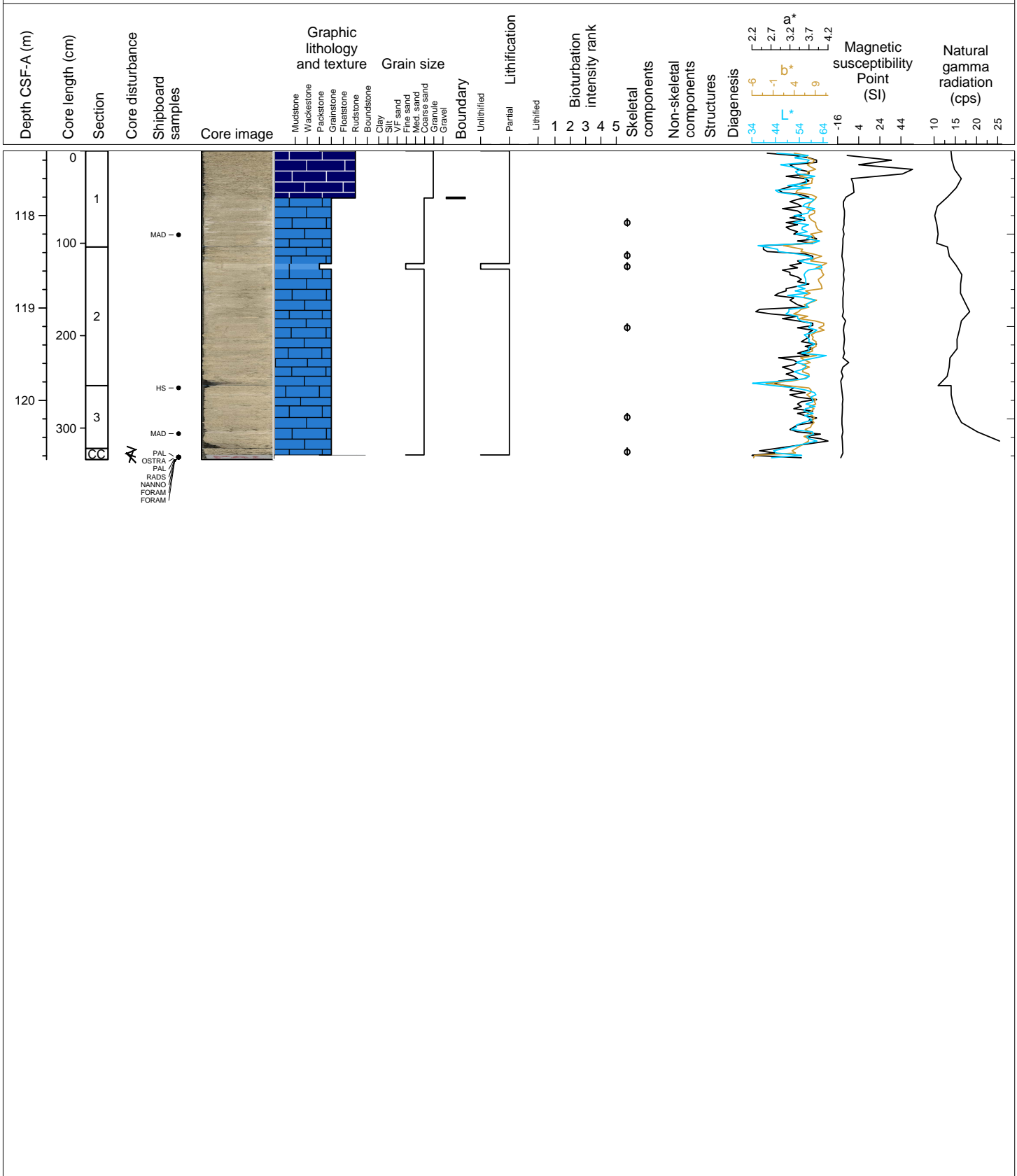
Hole 359-U1468A Core 14F, Interval 112.6-116.79 m (CSF-A)

Major lithology: Unlithified to partially lithified benthic foraminifera-rich GRAINSTONE. Coarse-grained, poorly-sorted. Large benthic foraminifera are abundant (identified: Sphaerogypsina globulus, Lepidocyclina and Amphistegina). Bryozoan fragments, red algae and echinoderm spines are present, and few grain aggregates. Organic matter concentrated in burrows. Minor lithology: PACKSTONE (white calcareous mud matrix). Remarks: N/A



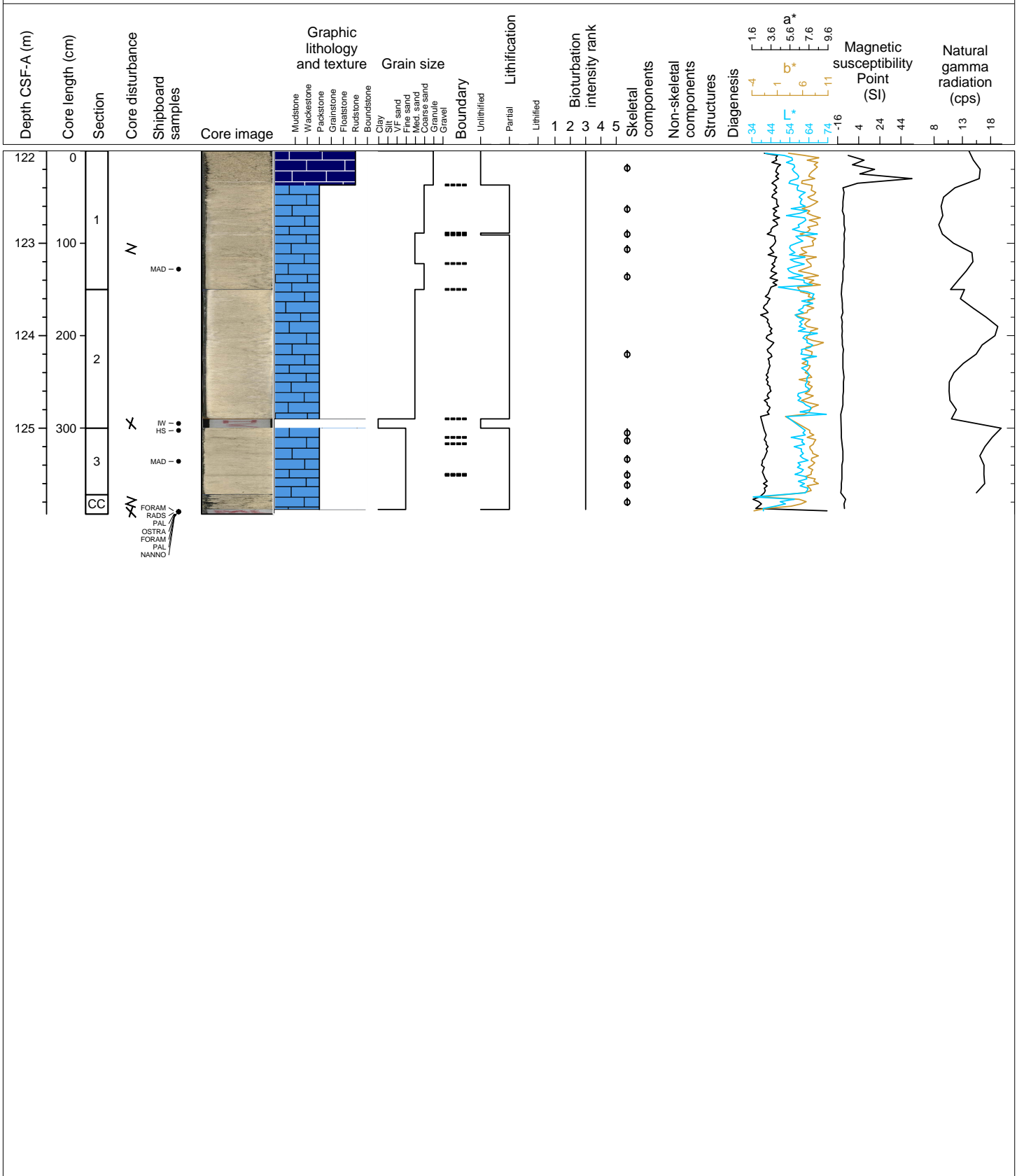
Hole 359-U1468A Core 15F, Interval 117.3-120.64 m (CSF-A)

Major lithology: Unlithified to partially lithified benthic foraminifera-rich GRAINSTONE with an interlayered PACKSTONE 15F-2, 18 cm to 24 cm. Coarse-grained, poorly-sorted. Large benthic foraminifera are abundant (identified: Sphaerogypsina globulus, Lepidocyclina and Amphistegina). Bryozoan fragments, red algae, shell fragments and echinoderm spines are present, and few grain aggregates. Organic matter concentrated in burrows. Minor lithology: PACKSTONE present as a white calcareous mud matrix and very thin (1 - 2 cm thick) interlayers. Remarks: N/A



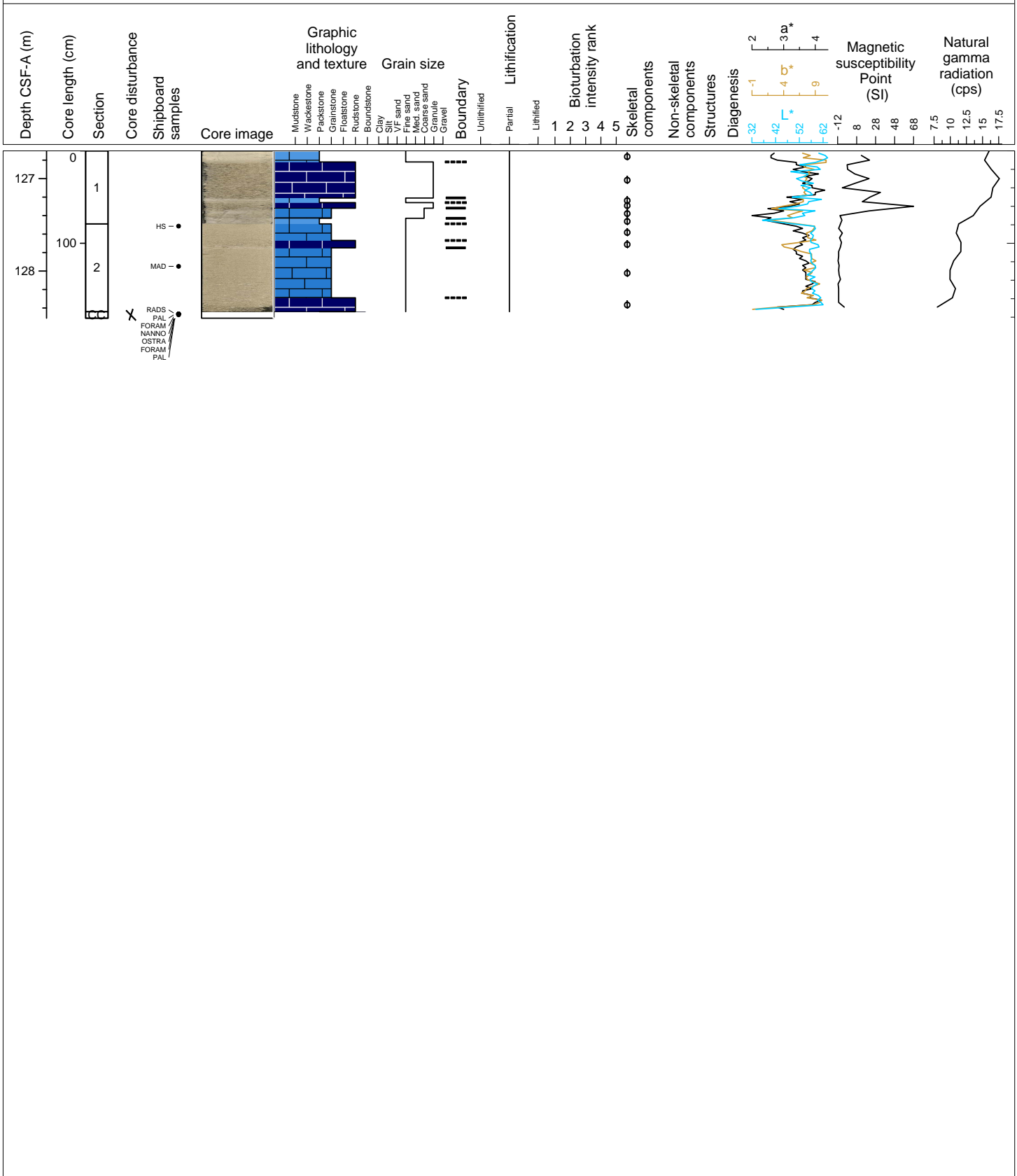
Hole 359-U1468A Core 16F, Interval 122.0-125.93 m (CSF-A)

Major lithology: Interlayered unlithified and partially lithified PACKSTONE to WACKESTONE. Gravel to medium-grained, poorly sorted, partially lithified with abundant benthic foraminifera (*Sphaerogypsina globulus*, *Amphistegina*). Bioclasts, echinoderm spines, lithoclasts and grain aggregates are present. Bryozoans are present (branching and encrusting). Burrows are present lower in the core with packstone to grainstone infill. Minor lithology: PACKSTONE present as a white calcareous mud matrix. Remarks: N/A



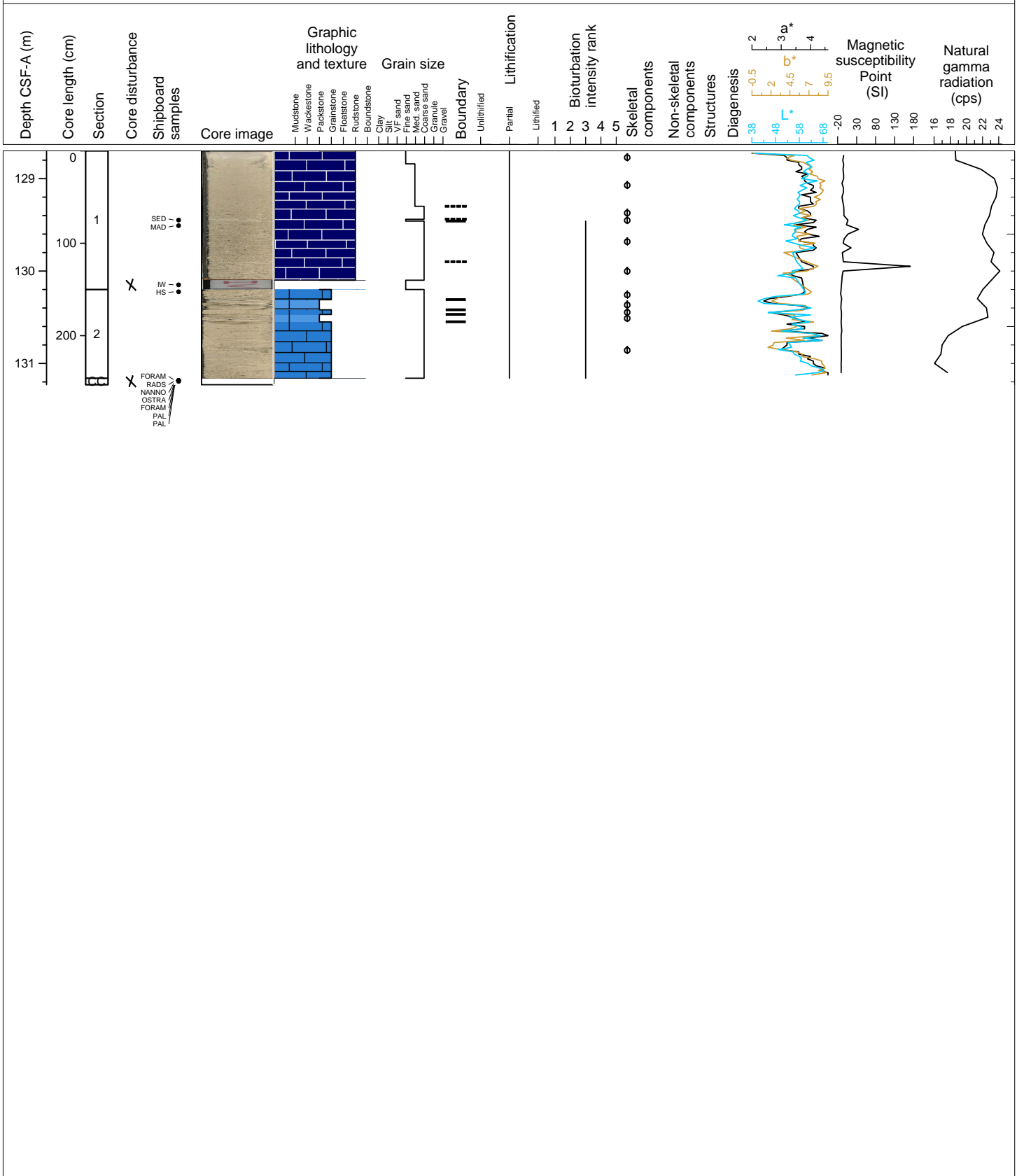
Hole 359-U1468A Core 17F, Interval 126.7-128.51 m (CSF-A)

Major lithology: Unlithified to partially lithified granular-grained RUDSTONE grading up-core to a coarse-grained unlithified GRAINSTONE and into the overlying fine-grained PACKSTONE. Abundant benthic foraminifera (*Sphaerogypsina globulus*, *Amphistegina*). Large bioclasts, echinoderm spines and fragments, lithoclasts and indurated grain aggregates are present. Bryozoans are present (branching and encrusting). Intermediate: GRAINSTONE within fining up-sequence. Minor lithology: PACKSTONE within fining up-sequence. Remarks: Five fining-up sequences with internal gradational contacts based on texture and grainsize, and sharp basal contacts. Close up photos from 17F-1A.



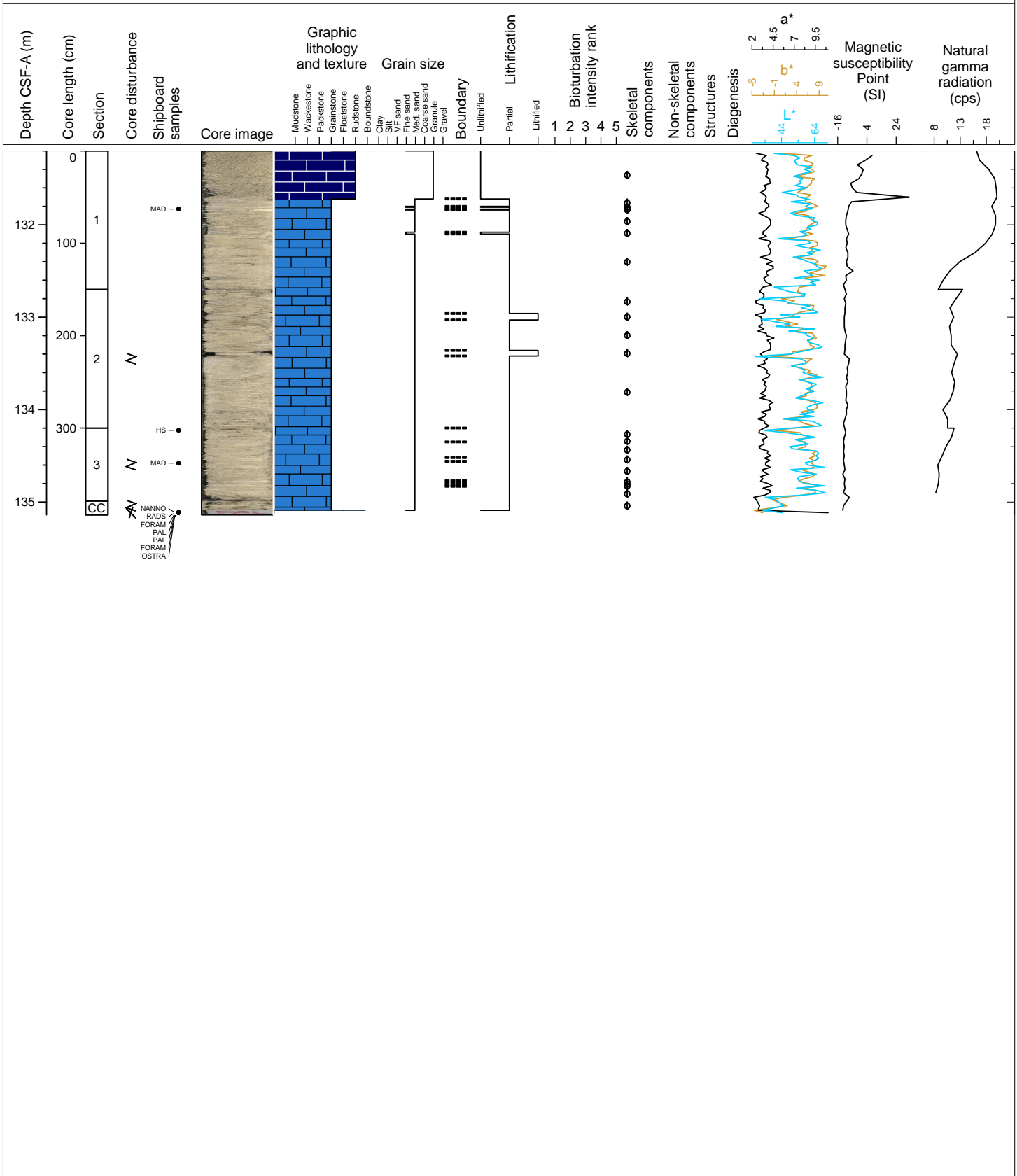
Hole 359-U1468A Core 18F, Interval 128.7-131.23 m (CSF-A)

Minor lithology: Unlithified to partially lithified medium-grained GRAINSTONE fining up core to fine-grained to PACKSTONE in the upper part of the core (18F-1). Abundant benthic foraminifera (*Sphaerogypsina globulus* and bioclasts). Within the fining-up sequence, benthic foraminifera and bioclasts decrease in size up-core. Gray to dark brown lithoclasts and echinoid spins are also common in the lower part of this interval (in the GRAINSTONE). The lower half of the core was characterized by partially lithified massive GRAINSTONE with thin bedded, well lithified GRAINSTONE at 18-2F, 11-22 cm and 27-35 cm. Minor lithology: PACKSTONE within fining up-sequence and as a mud matrix in the lower massive sequence. Remarks: The upper section of the core contains one fining-up sequences with internal gradational contacts based on texture and grainsize and sharp basal contacts.



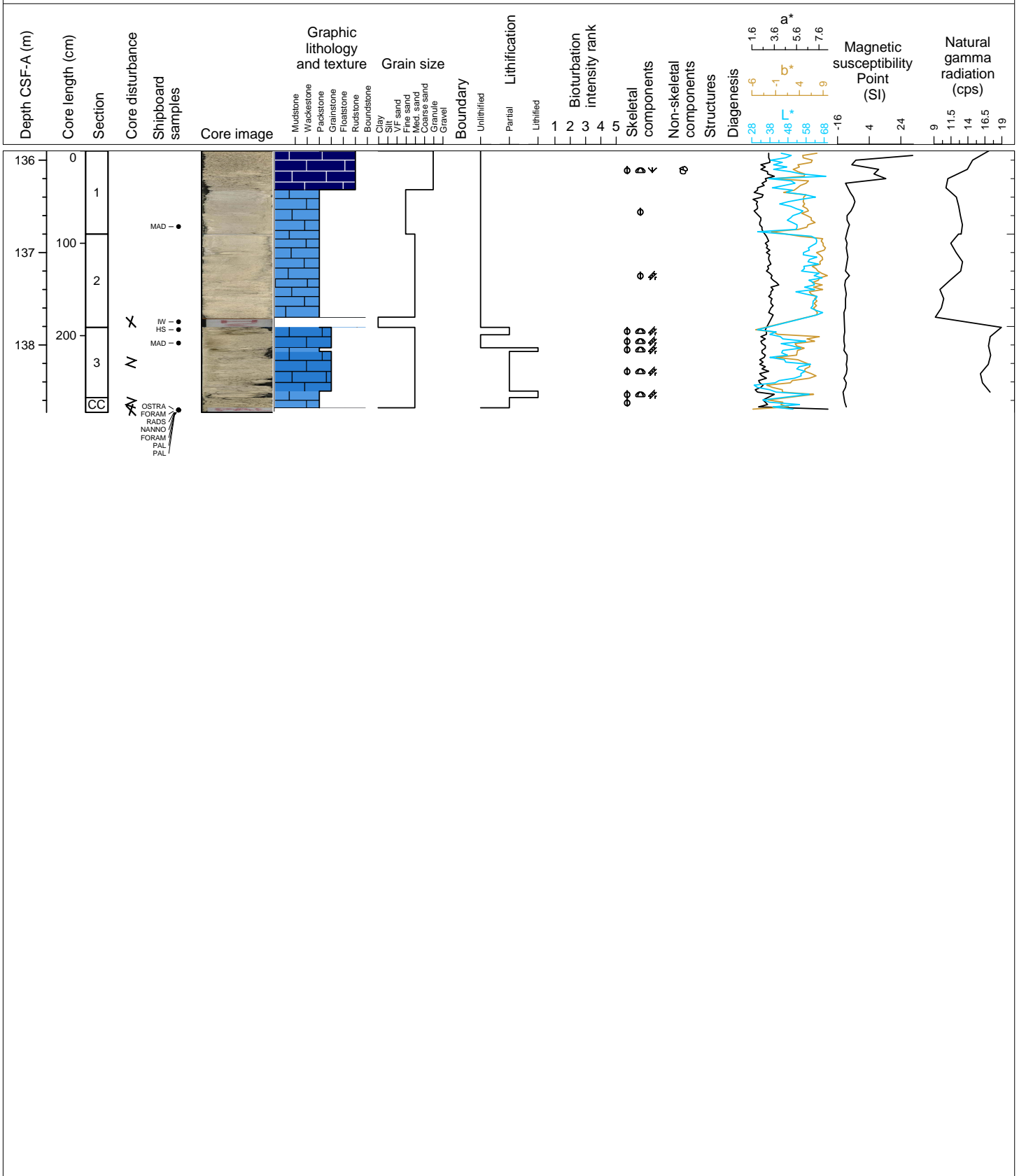
Hole 359-U1468A Core 19F, Interval 131.2-135.14 m (CSF-A)

Major lithology: Partially lithified GRAINSTONE. Coarse-grained, poorly sorted. Abundant large benthic foraminifera (*Sphaerogypsina globulus*, *Amphistegina*, *Lepidocyclina*) and bioclasts. Common red algae, mollusks fragments, echinoid fragments. Grain aggregates are common. Minor lithology: Fine-grained PACKSTONE (calcareous mud) with fine bioclasts. Remarks: Cave-in 00-52.



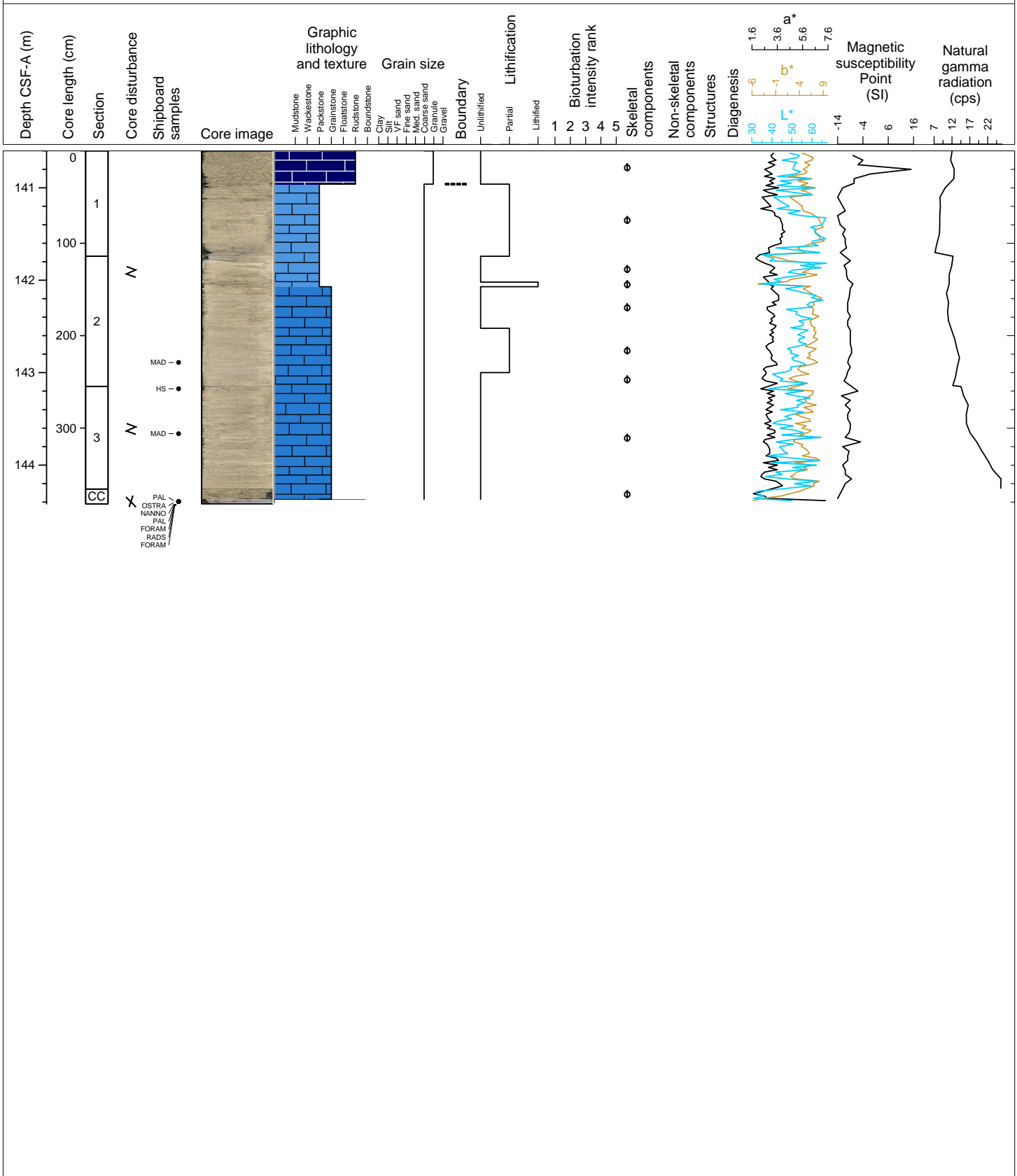
Hole 359-U1468A Core 20F, Interval 135.9-138.73 m (CSF-A)

Major lithology: Unlithified to lithified large benthic foraminifera-rich GRAINSTONE. Medium to coarse-grained, white to pale yellow. Abundant large benthic foraminifera (*Sphaerogypsina globulus*, *Amphistegina*) and bioclasts. Few red algae, shell fragments and echinoid fragments. Grain aggregates and unidentifiable bioclastic grains are common. Minor lithology: Partially lithified fine-grained foraminifera-rich PACKSTONE, fine bioclasts and abundant calcareous mud (Tunicate spicules). Remarks: Cave-in top 42cm.



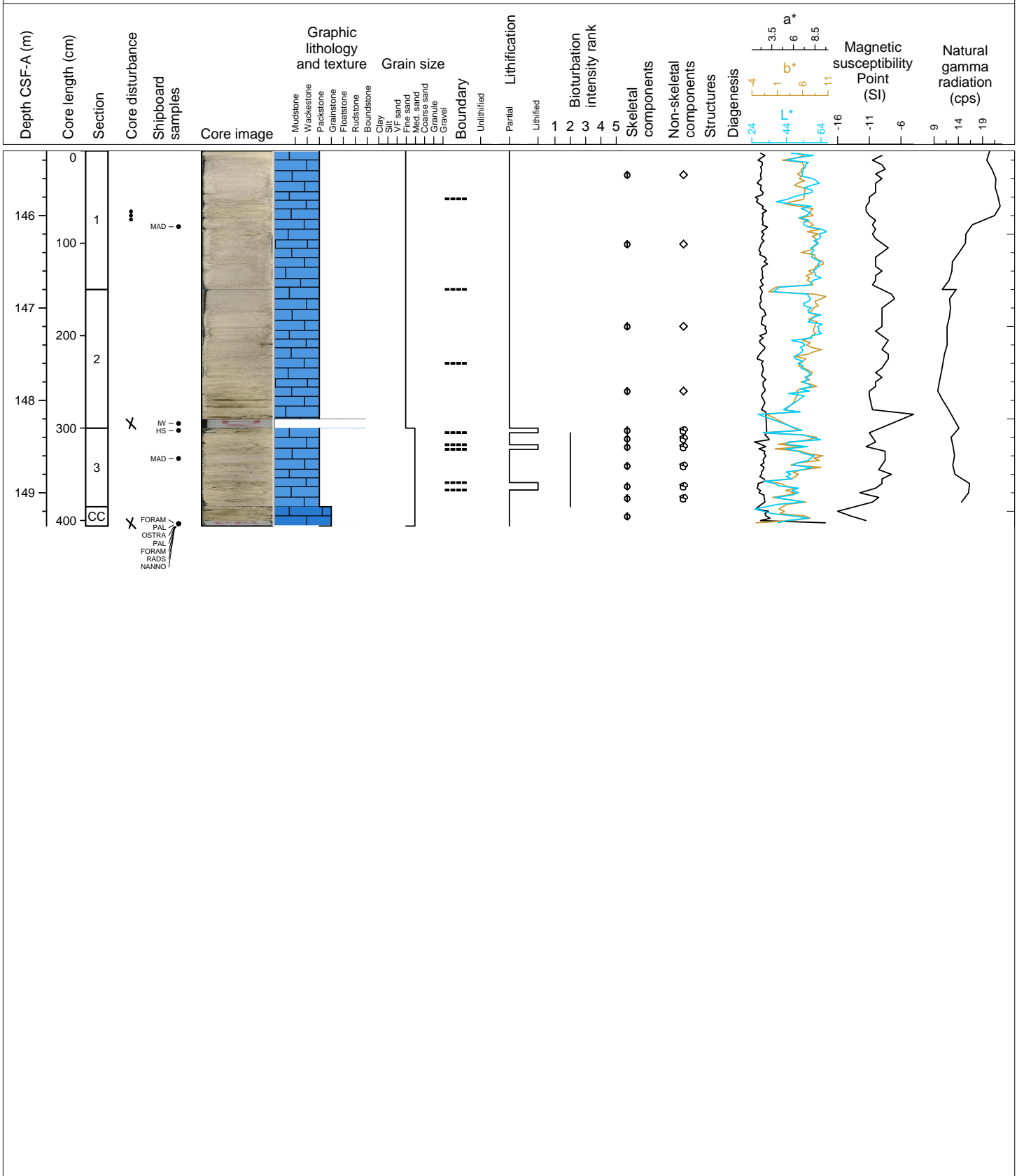
Hole 359-U1468A Core 21F, Interval 140.6-144.42 m (CSF-A)

Major lithology: Unlithified to lithified large benthic foraminifera-rich GRAINSTONE to PACKSTONE (Poorly washed GRAINSTONE). Coarse- to fine-grained, poorly-sorted, white to pale yellow. Abundant large benthic foraminifera (*Sphaerogypsina globulus*, *Amphistegina*) and bioclastic grains. Minor lithology: None noted. Remarks: N/A.



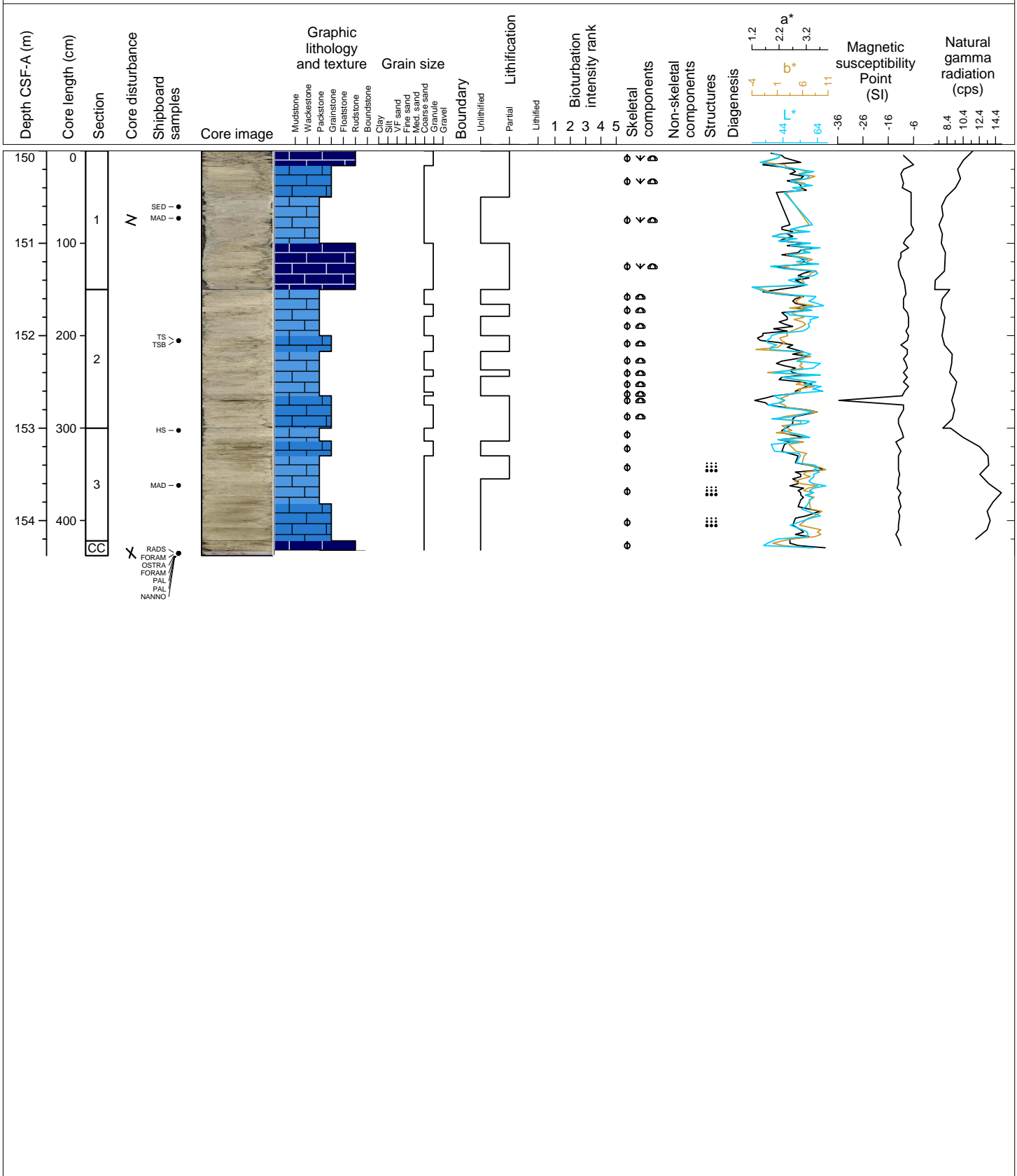
Hole 359-U1468A Core 22F, Interval 145.3-149.36 m (CSF-A)

Major lithology: Unlithified to lithified large benthic foraminifera-rich GRAINSTONE to PACKSTONE (poorly washed GRAINSTONE). Coarse- to fine-grained, poorly-sorted, white to pale yellow. Abundant large benthic foraminifera (*Lepidocyclina* and *Amphistegina*), bioclastic grains and grain aggregates. Minor lithology: PACKSTONE interlayer, very fine to clay-grain size rich. Remarks: N/A



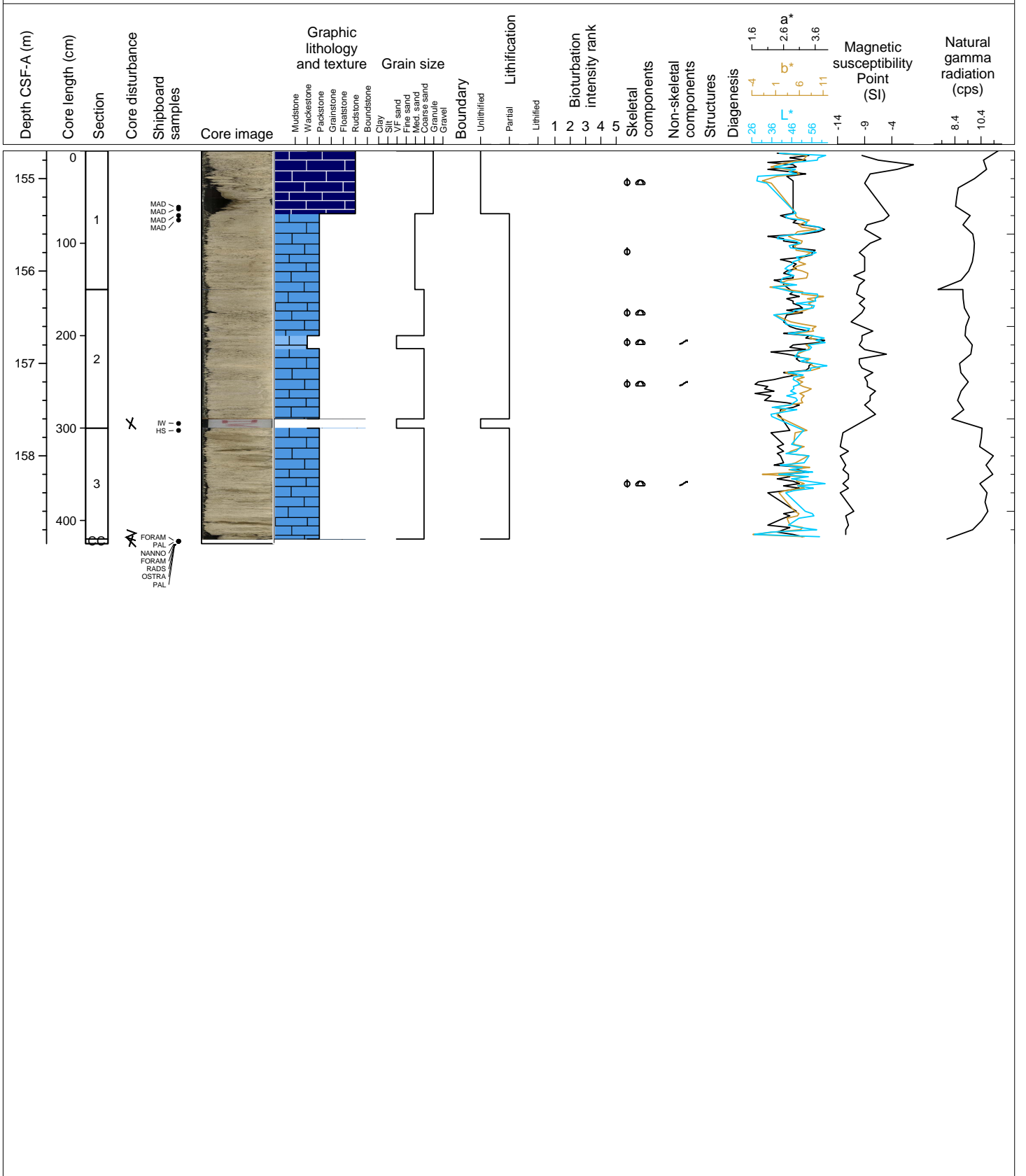
Hole 359-U1468A Core 23F, Interval 150.0-154.38 m (CSF-A)

Major lithology: Unlithified to partially lithified large benthic foraminifera-rich PACKSTONE to GRAINSTONE. Coarse to granule-grained, poorly-sorted, white to pale yellow. Abundant large benthic foraminifera (*Lepidocyclina* and *Amphistegina*) and bioclastic grains, common echinoid spines, few bryozoan. Minor lithology: Unlithified large benthic foraminifera-rich RUDSTONE. Remarks: Smear slide at 359-U1468A-23F-1, 60 cm (aragonite needles, fragmented foraminifera)



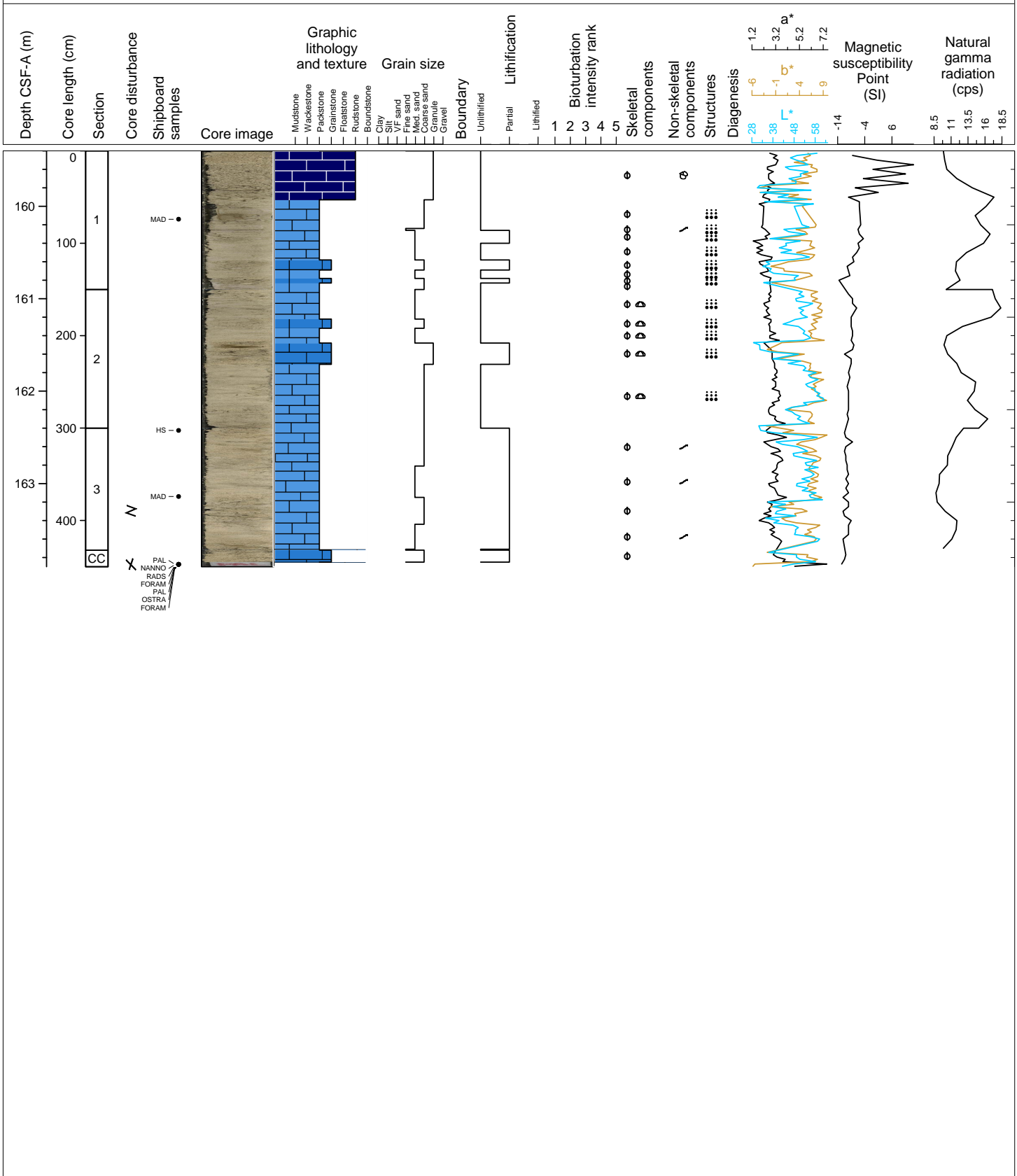
Hole 359-U1468A Core 24F, Interval 154.7-158.95 m (CSF-A)

Major lithology: Partially lithified large benthic foraminifera-rich PACKSTONE. Medium- to coarse-grained, poorly sorted, pale yellow to light gray. Abundant large benthic foraminifera (*Sphaerogypsina globulus*, *Lepidocyclina* and *Amphistegina*). Common echinoid spines, few shell fragments. Minor lithology: Partially lithified large benthic foraminifera-rich WACKESTONE. Very fine-grained, pale yellow with slight black mottle (organic matter). Remarks: Cave in top 68 cm. CC all to PAL.



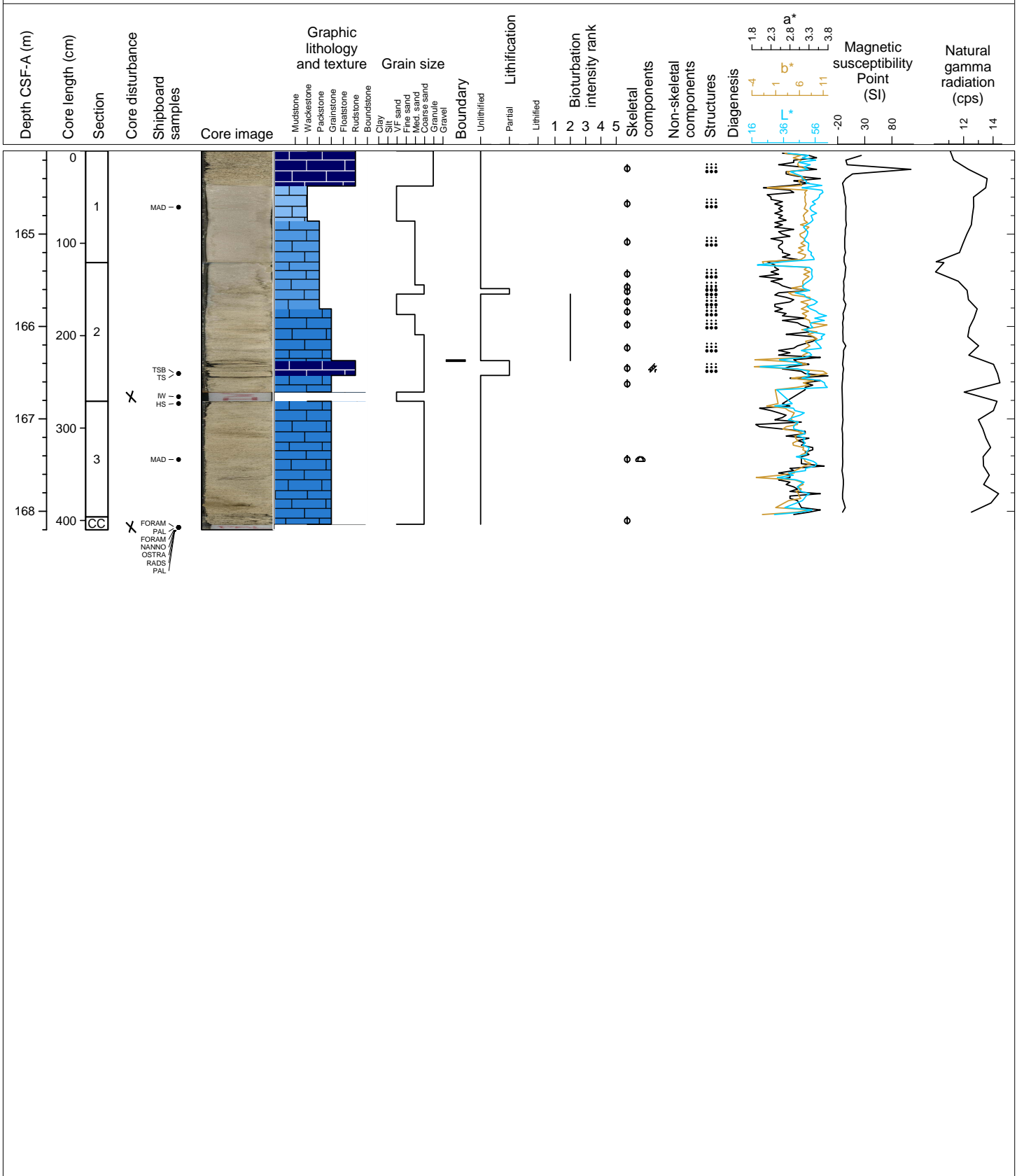
Hole 359-U1468A Core 25F, Interval 159.4-163.9 m (CSF-A)

Major lithology: Unlithified to lithified large benthic foraminifera-rich GRAINSTONE to PACKSTONE (poorly washed GRAINSTONE). Fining-up successions from granule- to fine-grained, pale yellow to light gray. Abundant large benthic foraminifera (*Sphaerogypsina globulus*, *Lepidocyclina* and *Amphistegina*). Common echinoid spines and bioclastic grains. Sharp basal contacts and gradational internal contacts in the fining-up succession. Minor lithology: Unlithified to partially lithified organic-rich, large benthic foraminifera-rich PACKSTONE interlayers. Organic matter is present as particles and/or ground mass. Remarks: Cave in top 53cm.



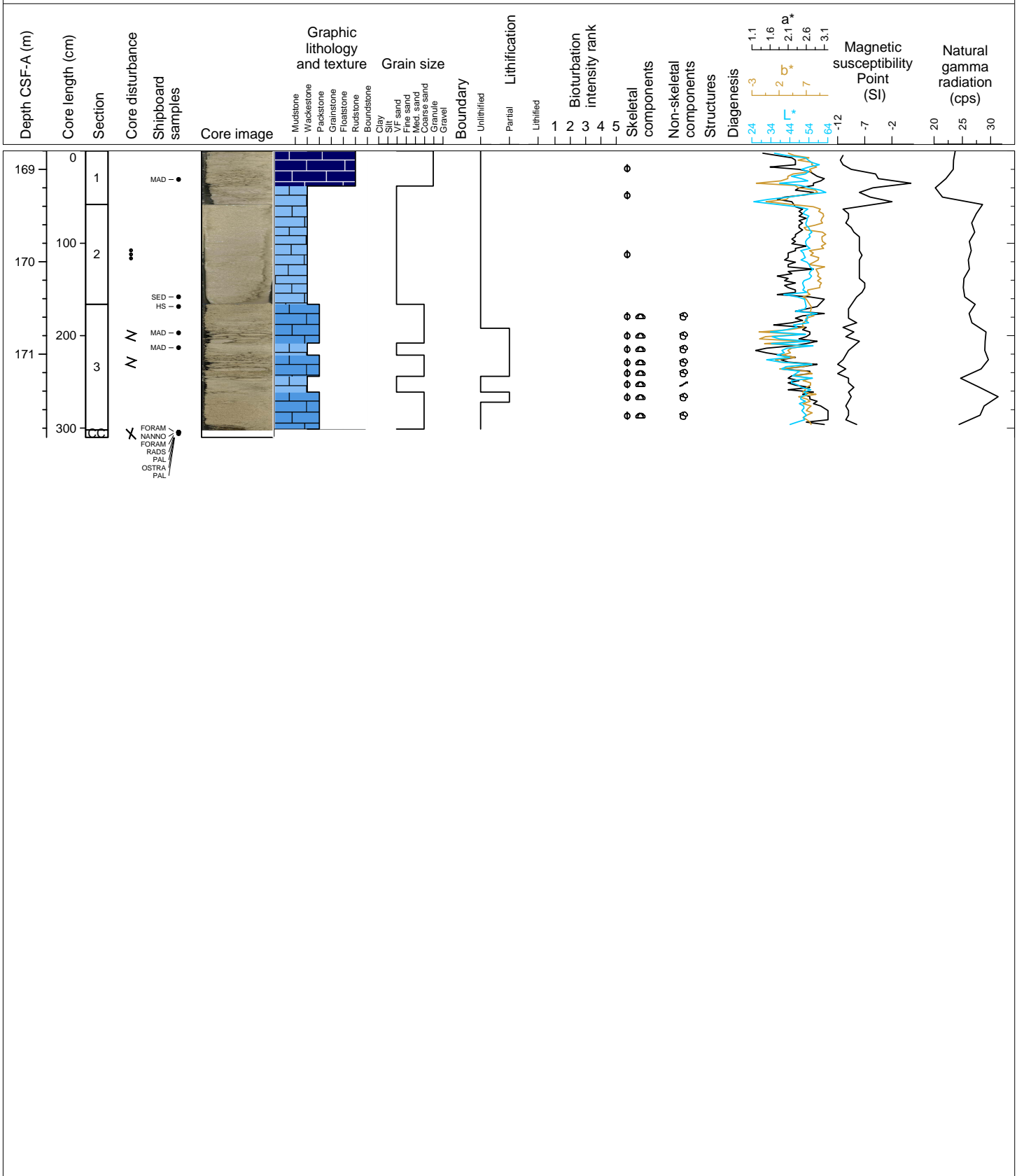
Hole 359-U1468A Core 26F, Interval 164.1-168.2 m (CSF-A)

Major lithology: Unlithified to partially lithified large benthic foraminifera-rich PACKSTONE (WACKESTONE-PACKSTONE) to GRAINSTONE. Fining-up successions. Granule- to fine-grained, pale yellow. Abundant large benthic foraminifera (*Sphaerogypsina globulus*, *Lepidocyclina* and *Amphistegina*). Common echinoid spines and bioclastic grains. Sharp basal contacts and gradational internal contacts in the fining-up succession. Minor lithology: Partially lithified large benthic foraminifera-rich RUDSTONE. Remarks: Cave in top 38 cm. Thin section at 359-U1468A-26F-2, 120 cm. Large benthic foraminifera and noticeably smaller.



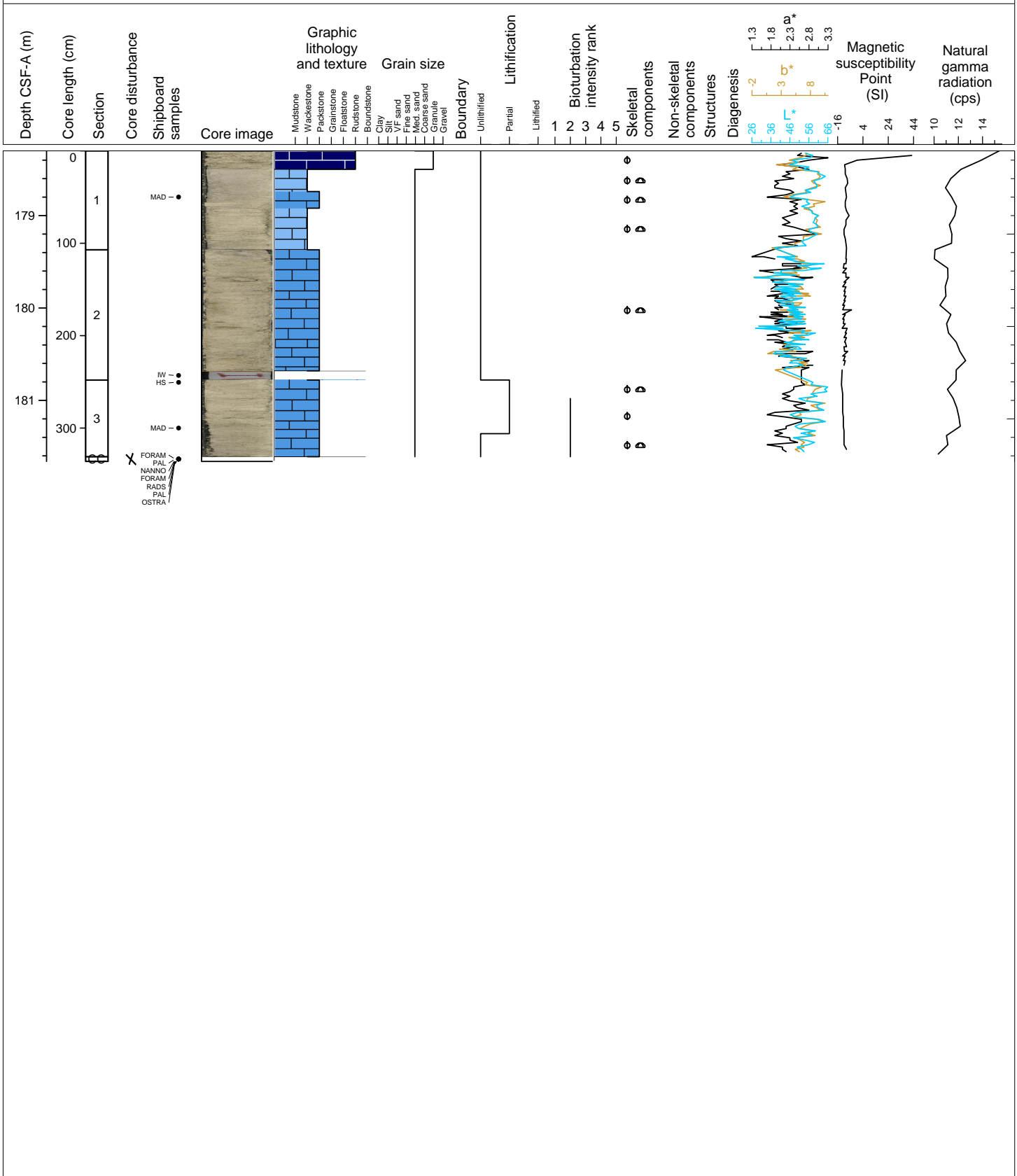
Hole 359-U1468A Core 27H, Interval 168.8-171.9 m (CSF-A)

Major lithology (alternating with minor lithology in section 3): Unlithified to partially lithified large benthic foraminifera-rich WACKESTONE. Granule- to fine-grained, pale yellow. Abundant large benthic foraminifera (*Sphaerogypsina globulus* and *Amphistegina*). Common echinoid spines and bioclastic grains. Minor lithology (alternating with major lithology in section 3): Unlithified to partially lithified large benthic foraminifera-rich PACKSTONE. Abundant large benthic foraminifera (*Sphaerogypsina globulus* and *Amphistegina*). Common echinoid spines and bioclastic grains. Remarks: Smear slide at 359-U1468A-23F-1, 100 cm with abundant benthic foraminifera and aragonite needles).



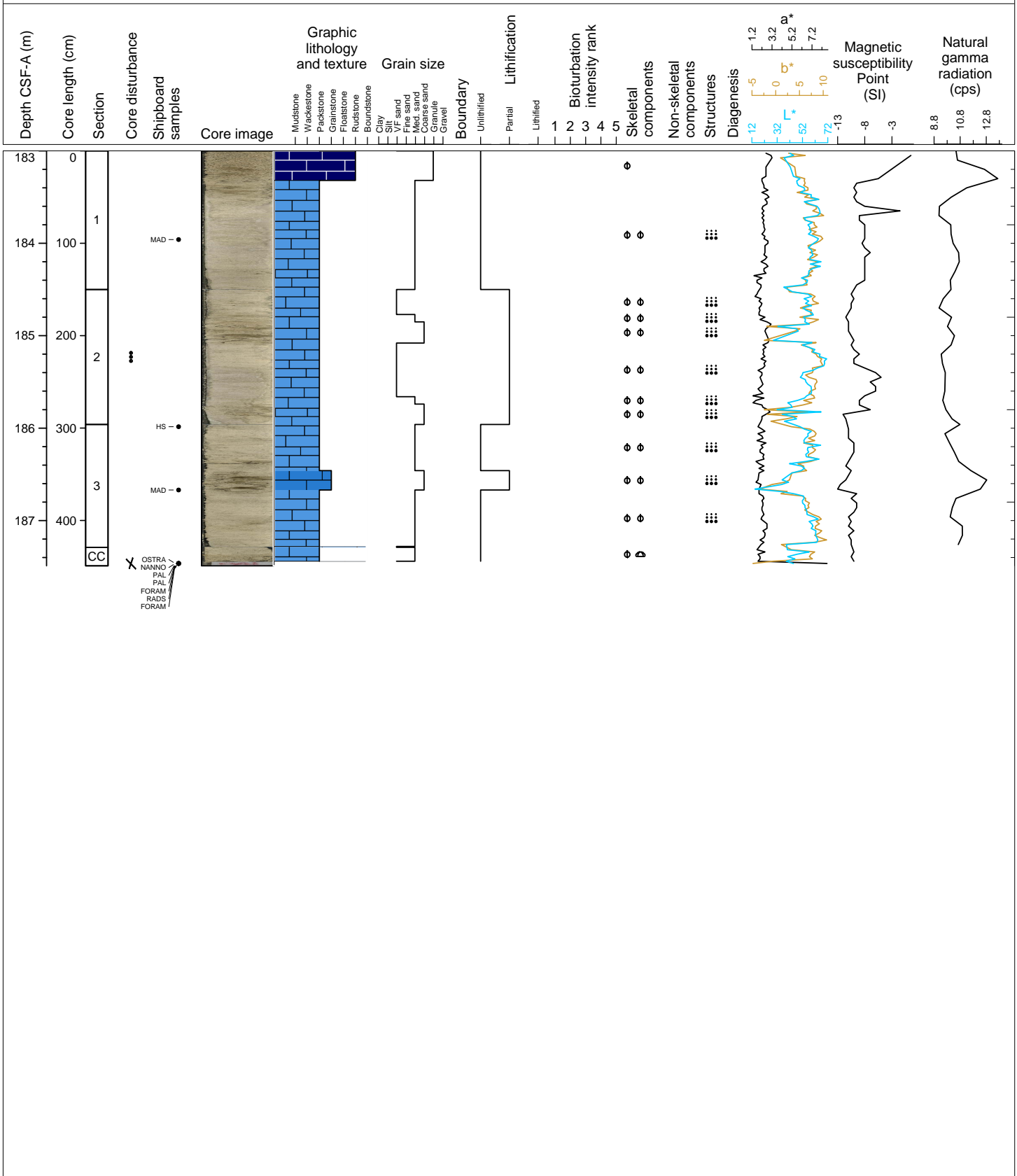
Hole 359-U1468A Core 28F, Interval 178.3-181.66 m (CSF-A)

Major lithology: Unlithified to partially lithified large benthic foraminifera-rich WACKESTONE to PACKSTONE. Medium-grained, poorly-sorted, pale yellow. Abundant diminutive large benthic foraminifera (*Lepidocyclus* and *Amphistegina*). Common echinoid spines and bioclastic grains. Minor lithology: None.
 Remarks: Cave in top 20 cm. CC all to PAL.



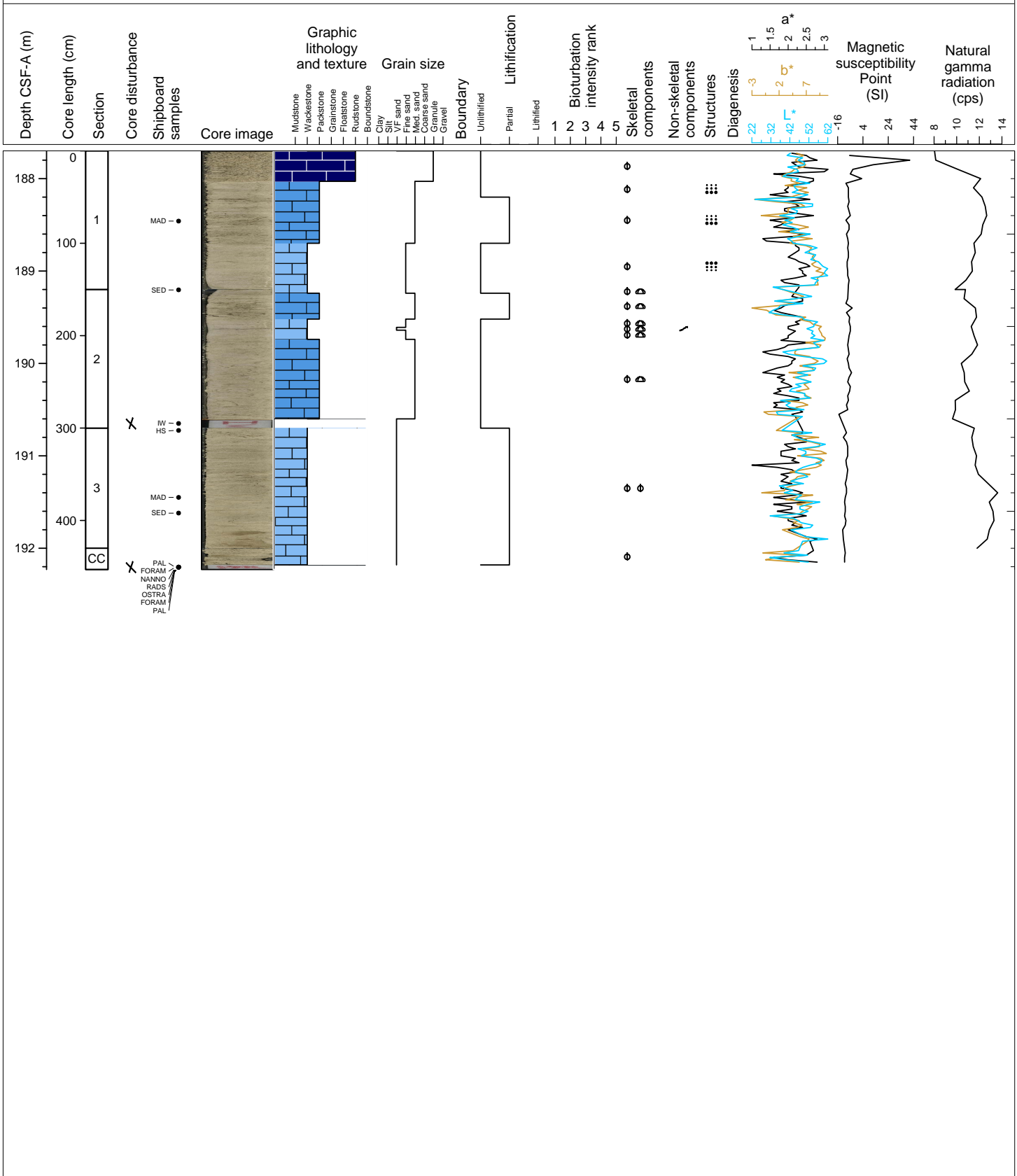
Hole 359-U1468A Core 29F, Interval 183.0-187.49 m (CSF-A)

Major lithology: Unlithified to partially lithified large benthic foraminifera-rich PACKSTONE. Fining-up successions. Coarse- to very fine- grained, pale yellow to white. Abundant large benthic foraminifera (*Lepidocyclus* and *Amphistegina*), at times diminutive. Common echinoid spines and bioclastic grains. Minor lithology: None. Remarks: Cave in top 32 cm.



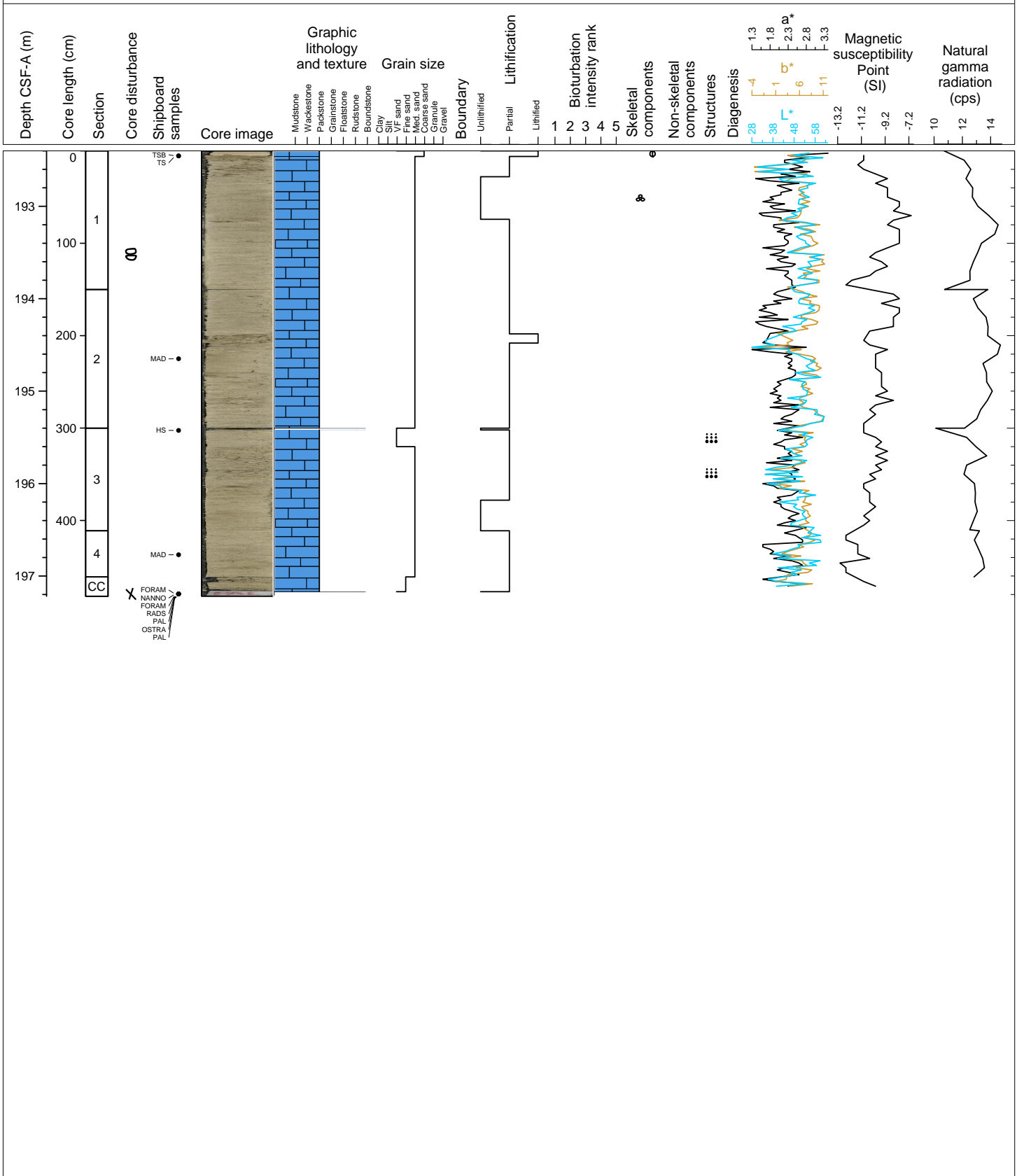
Hole 359-U1468A Core 30F, Interval 187.7-192.23 m (CSF-A)

Major lithology: Unlithified to partially lithified large benthic foraminifera-rich PACKSTONE to WACKESTONE. Fining-up and symmetrical (188.03 to 1189.52 mbsf) successions. Very fine- to medium-grained, gray to white. Abundant large benthic foraminifera (*Lepidocyclina* and *Amphistegina*), at times diminutive. Common echinoid spines and bioclastic grains, organic rich interlayers. Minor lithology: None. Remarks: Cave in top 33 cm. Smear slide at 359-U1468A-30F-3, 91cm showing aragonite needles, benthic foraminifera and bioclasts).



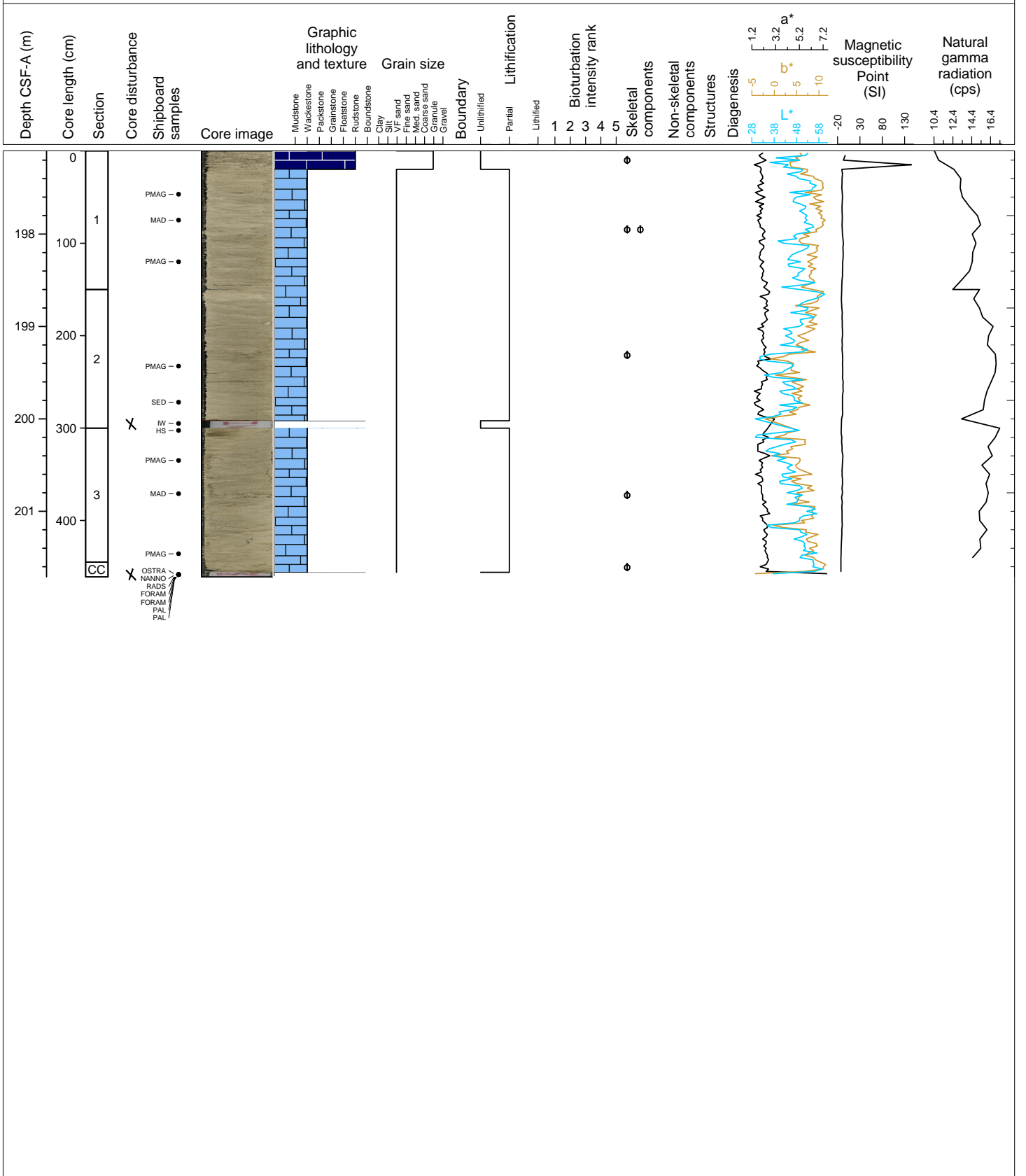
Hole 359-U1468A Core 31F, Interval 192.4-197.22 m (CSF-A)

Major lithology: Partially lithified to lithified calcareous bioclast-rich PACKSTONE. Very fine- to medium-grained, pale yellow. Abundant bioclastic grains, planktic foraminifera are present. Minor lithology (section 1, 00-06 cm): Lithified large benthic foraminifera-rich PACKSTONE. Coarse-grained, pale yellow. Abundant large benthic foraminifera. Remarks: Thin section at 359-U1468A-32F-2, 06 cm. Last occurrence of large benthic foraminifera (top 6 cm of 31F-1).



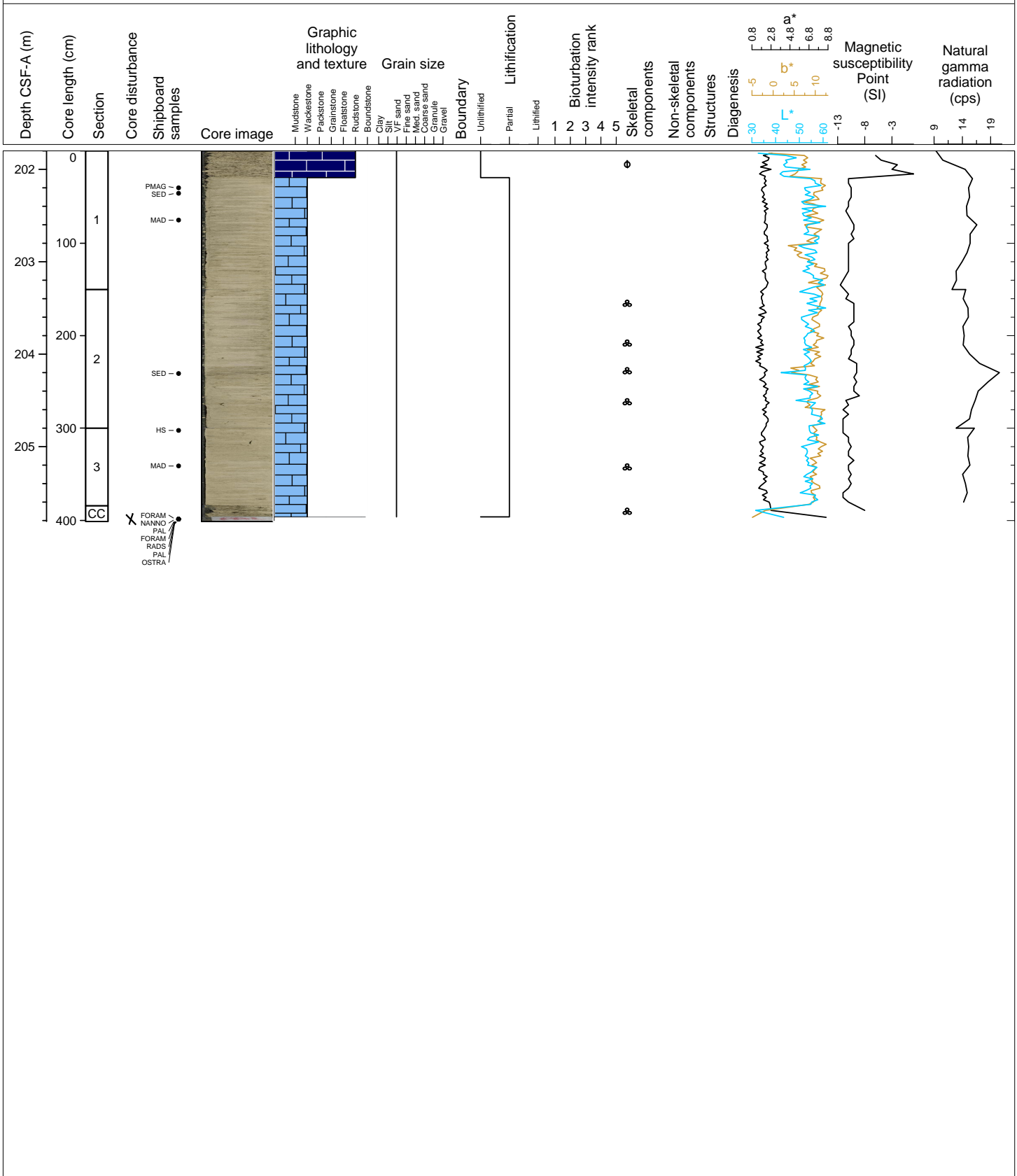
Hole 359-U1468A Core 32F, Interval 197.1-201.71 m (CSF-A)

Major lithology: Partially lithified calcareous bioclast-rich WACKESTONE. Very fine-grained, light brownish gray to light gray. Abundant large benthic foraminifera (*Lepidocyclus*) in the top portion of the core. Minor lithology: Very fine-grained WACKESTONE with aragonite needles, dolomite crystals and coccoliths.
 Remarks: Cave in top 20 cm.



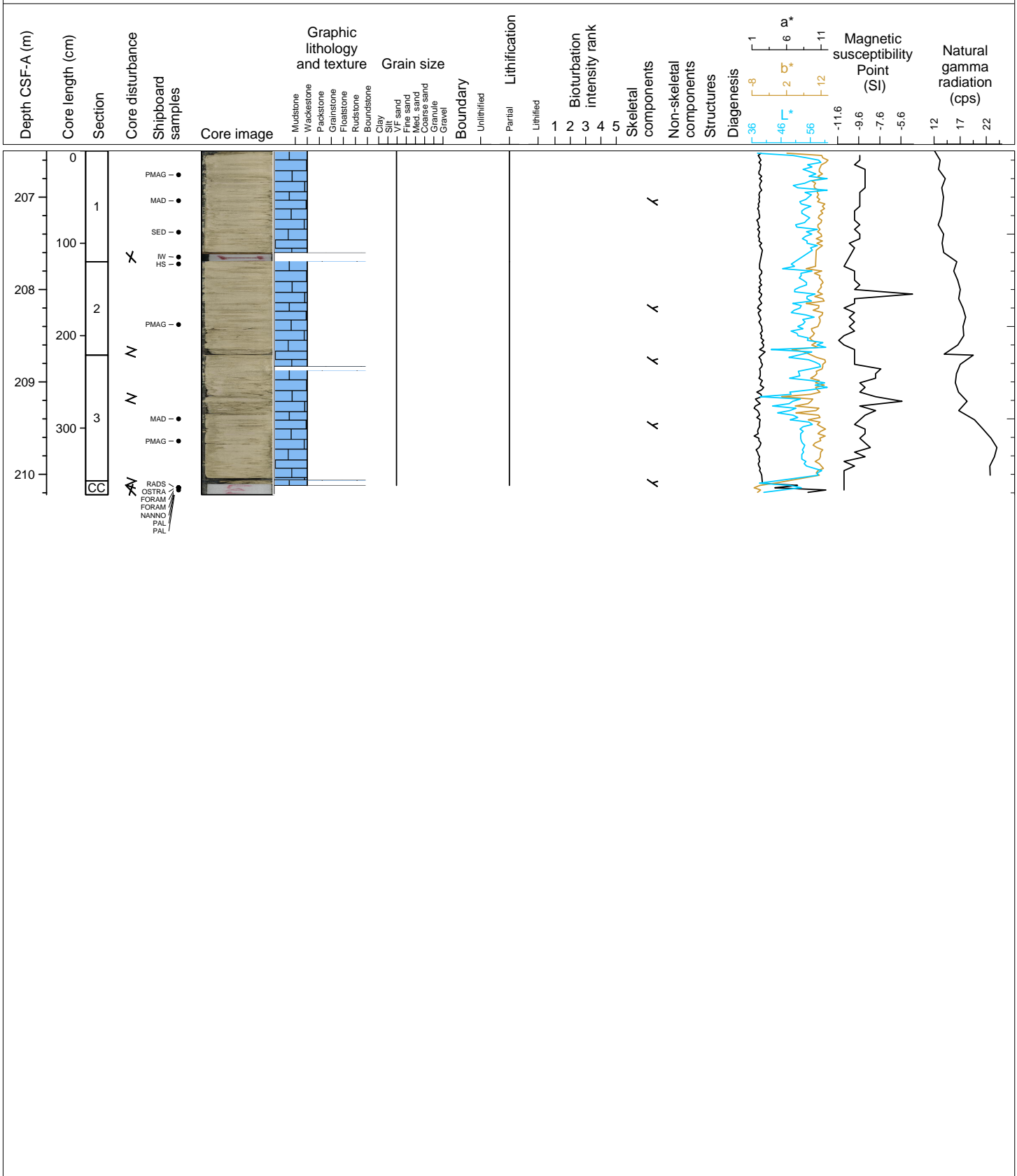
Hole 359-U1468A Core 33F, Interval 201.8-205.81 m (CSF-A)

Major lithology: Unlithified to partially lithified calcareous bioclast-rich WACKESTONE. Very fine- to fine-grained, light gray. Planktic and benthic foraminifera abundant. Minor lithology: Very fine-grained fraction contained dolomite, aragonite needles. Remarks: Cave in top 28cm. Core contained organic-rich black layers and streaks. Alternating cm-thick lithified-unlithified layers (related to cementing) in some sections of the core. Smear slide at 359-U1468A-33F-2, 91cm (sponge spicules). Minor: None. Remarks: N/A



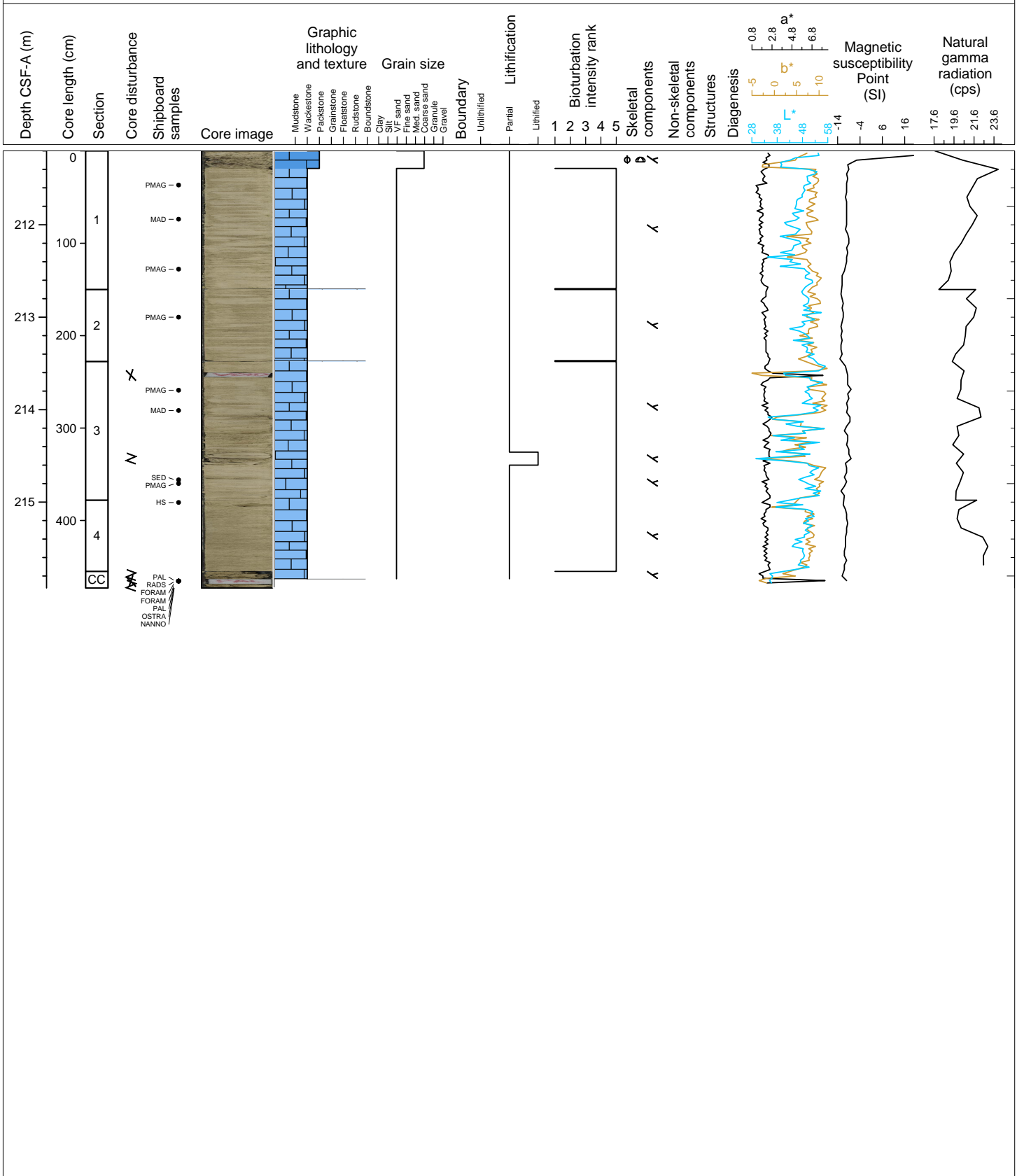
Hole 359-U1468A Core 34F, Interval 206.5-210.22 m (CSF-A)

Major lithology: Partially lithified calcareous bioclast-rich WACKESTONE. Very fine- to medium-grained, light gray. Fragmented bioclasts are common and sponge spicules present. Minor lithology: None. Remarks: Smear slide taken at 359-U1468A-34F-1, 88 cm.



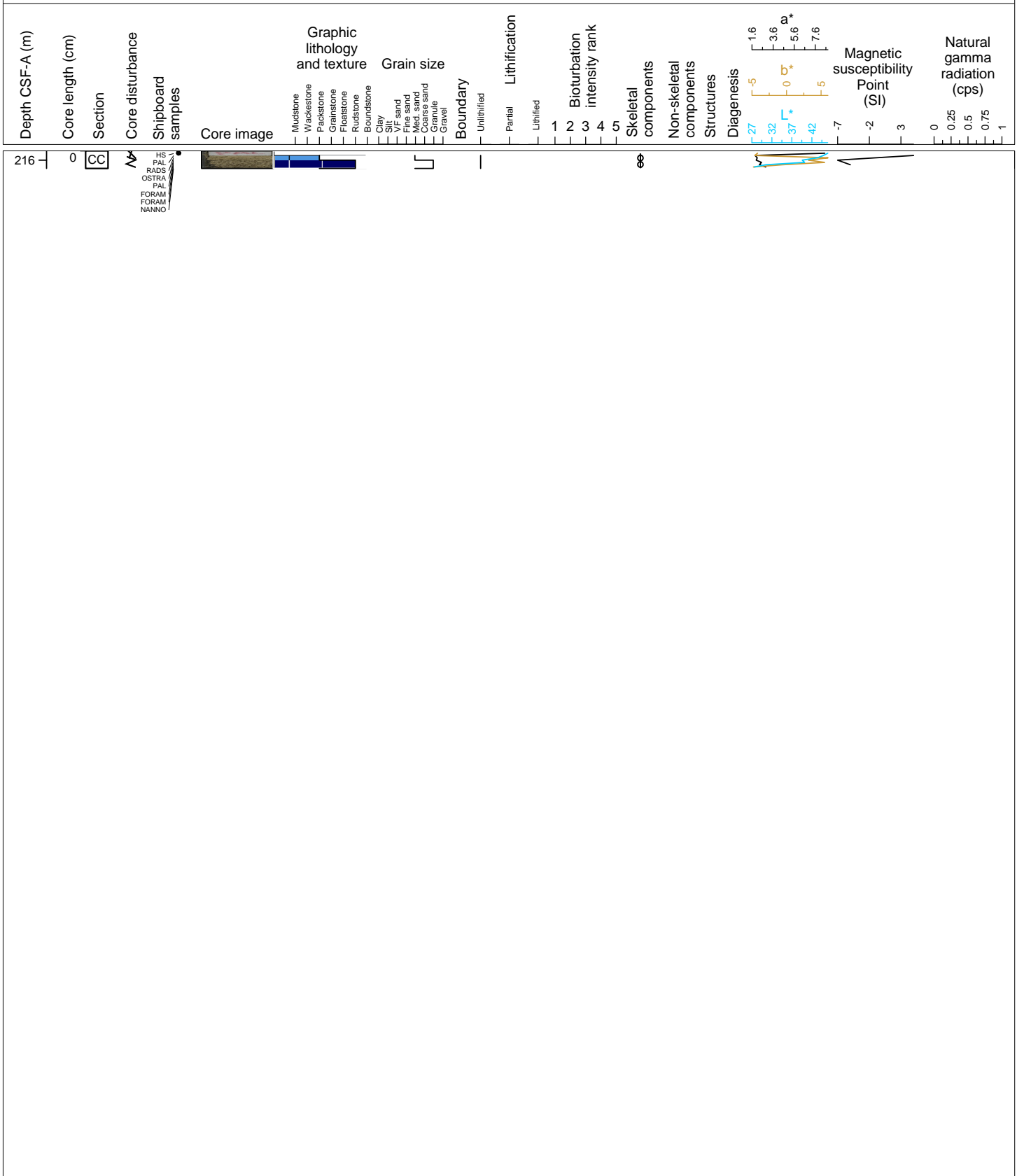
Hole 359-U1468A Core 35F, Interval 211.2-215.93 m (CSF-A)

Major lithology: Partially lithified calcareous bioclast-rich WACKESTONE. Very fine-grained, light gray. Fragmented bioclasts are common and sponge spicules present. Bioturbation is common to complete often present as mottles organic matter infill. Minor lithology: None. Remarks: Cave in top 19 cm. Smear slide at 359-U1468A-35F-3-A, 128cm (planktic foraminifera).



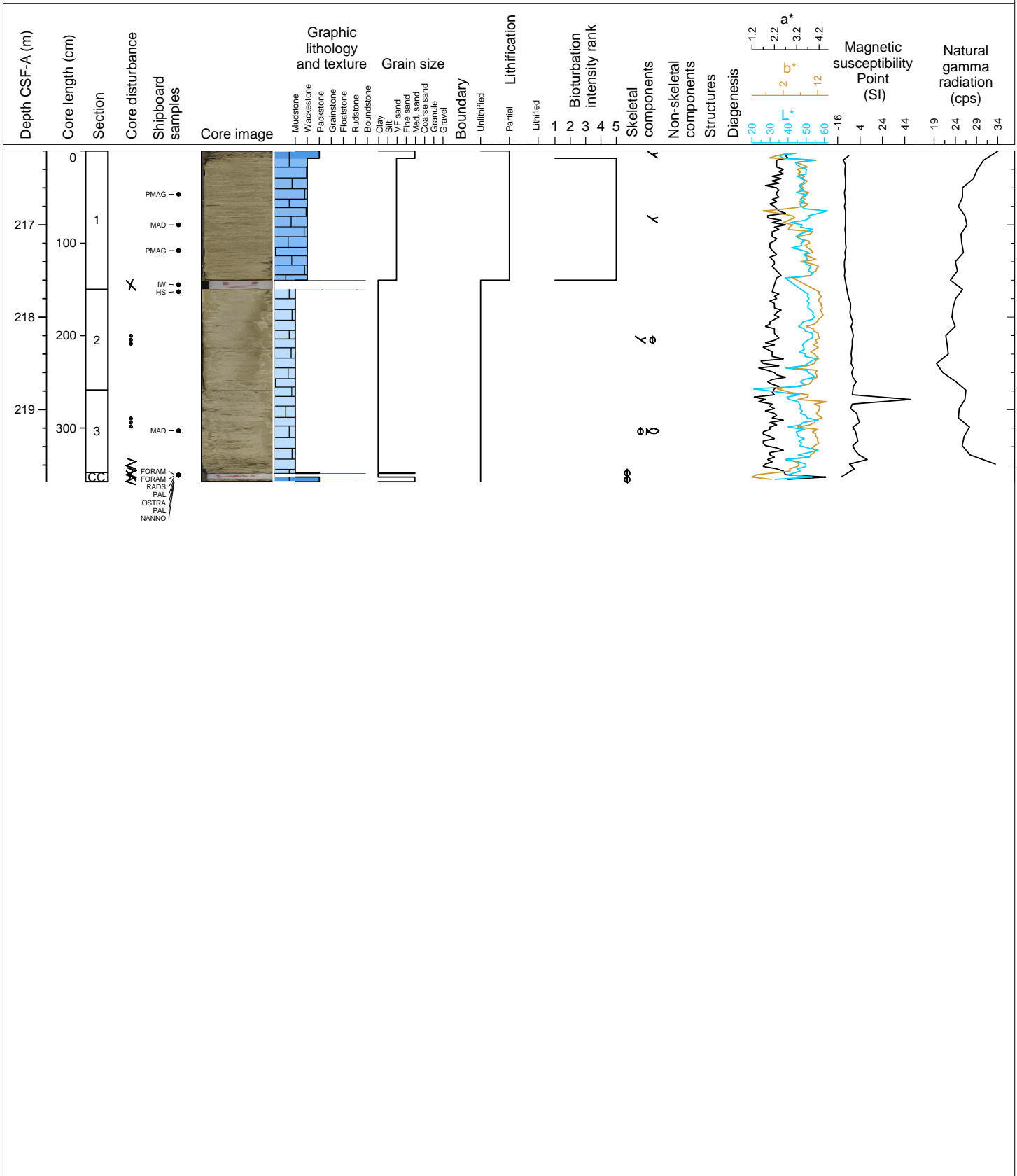
Hole 359-U1468A Core 36F, Interval 215.9-216.09 m (CSF-A)

Major lithology: Unlithified calcareous bioclast-rich PACKSTONE to RUDSTONE. Medium-grained to granules, light brownish gray. Benthic foraminifera are present. Minor lithology: None. Remarks: Core catch only. RUDSTONE disturbed.



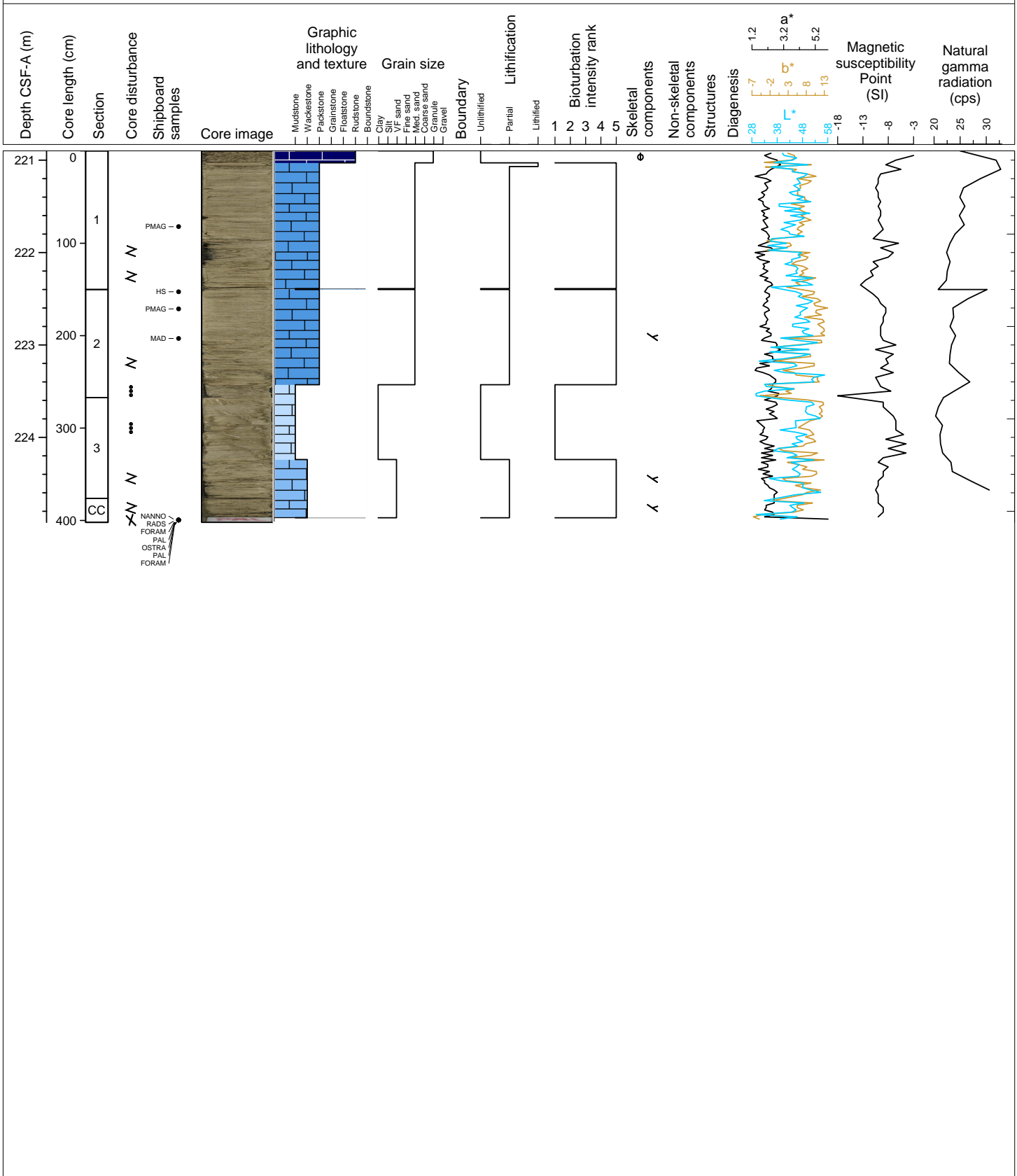
Hole 359-U1468A Core 37F, Interval 216.2-219.78 m (CSF-A)

Major lithology: Partially lithified calcareous bioclast-rich PACKSTONE to silt and clay sized MUDSTONE. Light gray, medium- to fine-grained PACKSTONE with interlayered yellow clay-rich MUDSTONE. Calcareous bioclasts abundant. Benthic foraminifera, fish debris, chert are present. Minor lithology: None. Remarks: Bottom portion of the core is soft, muddy, and soupy and likely a suck-in disturbance feature.



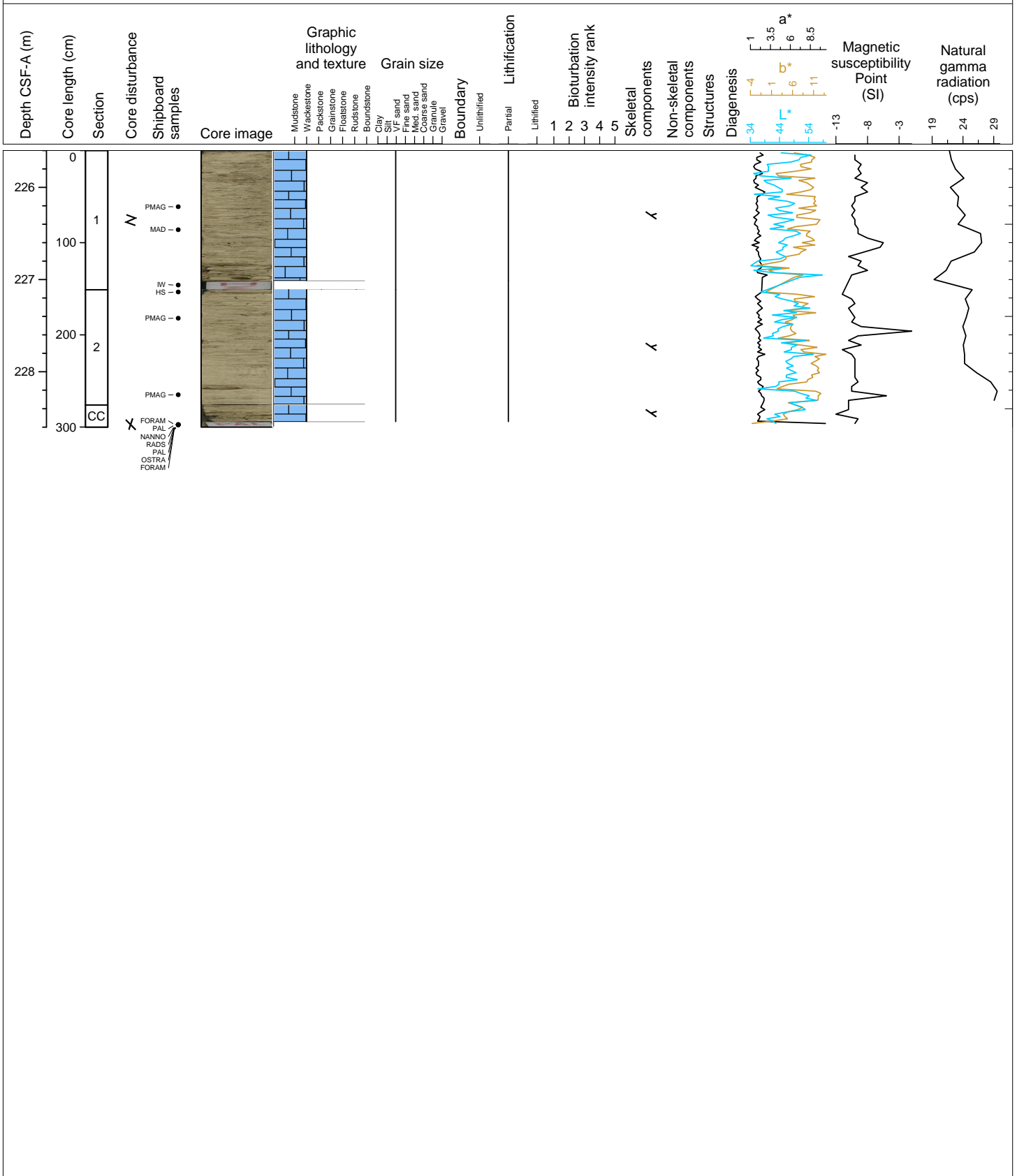
Hole 359-U1468A Core 38F, Interval 220.9-224.92 m (CSF-A)

Major lithology: Lithified to partially lithified calcareous PACKSTONE (locally WACKESTONE). Very fine- to medium-grained, pale yellow. Abundant bioclasts. Bioturbated is common to complete and burrows have dark infills of organic matter. Fine fraction has planktic foraminifera and sponge spicules. Minor lithology: Partially lithified calcareous WACKESTONE. Very fine-grained. Remarks: N/A



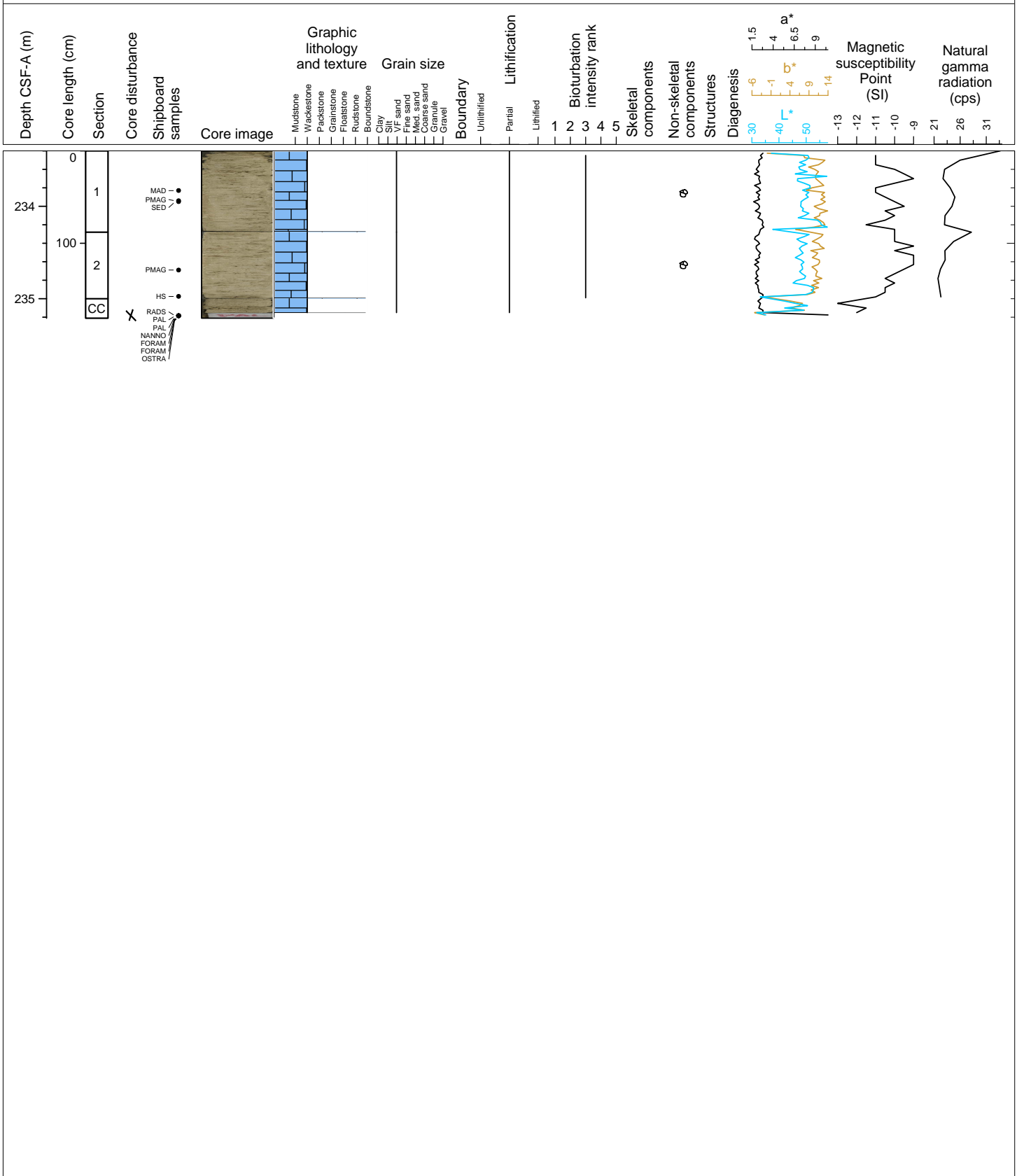
Hole 359-U1468A Core 39X, Interval 225.6-228.6 m (CSF-A)

Major lithology: Partially lithified calcareous WACKESTONE. Very fine-grained. Bioturbation is slight with burrows occasionally infilled with organic matter. Minor lithology: None. Remarks: None



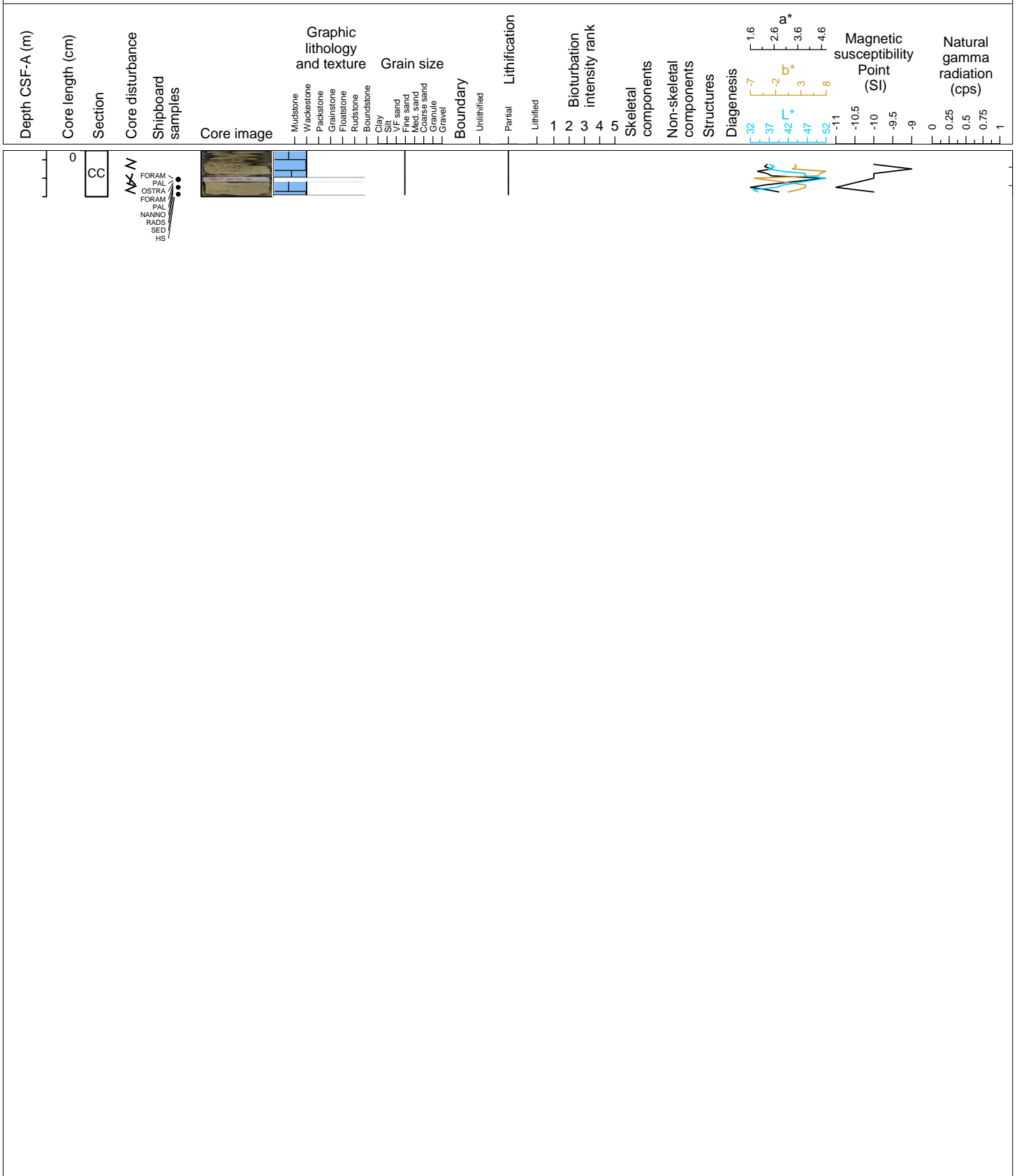
Hole 359-U1468A Core 40X, Interval 233.4-235.21 m (CSF-A)

Major lithology: Partially lithified calcareous bioclast-rich WACKESTONE. Very fine- to medium-grained, light gray. Abundant grain aggregates/lithoclasts. Bioturbation is common and burrows commonly lithified with few chert within the infill. Minor lithology: None. Remarks: Smear slide at 55cm in 359-U1468A-40X-1-A. Top 5cm of the core with lithoclasts is cave-in.



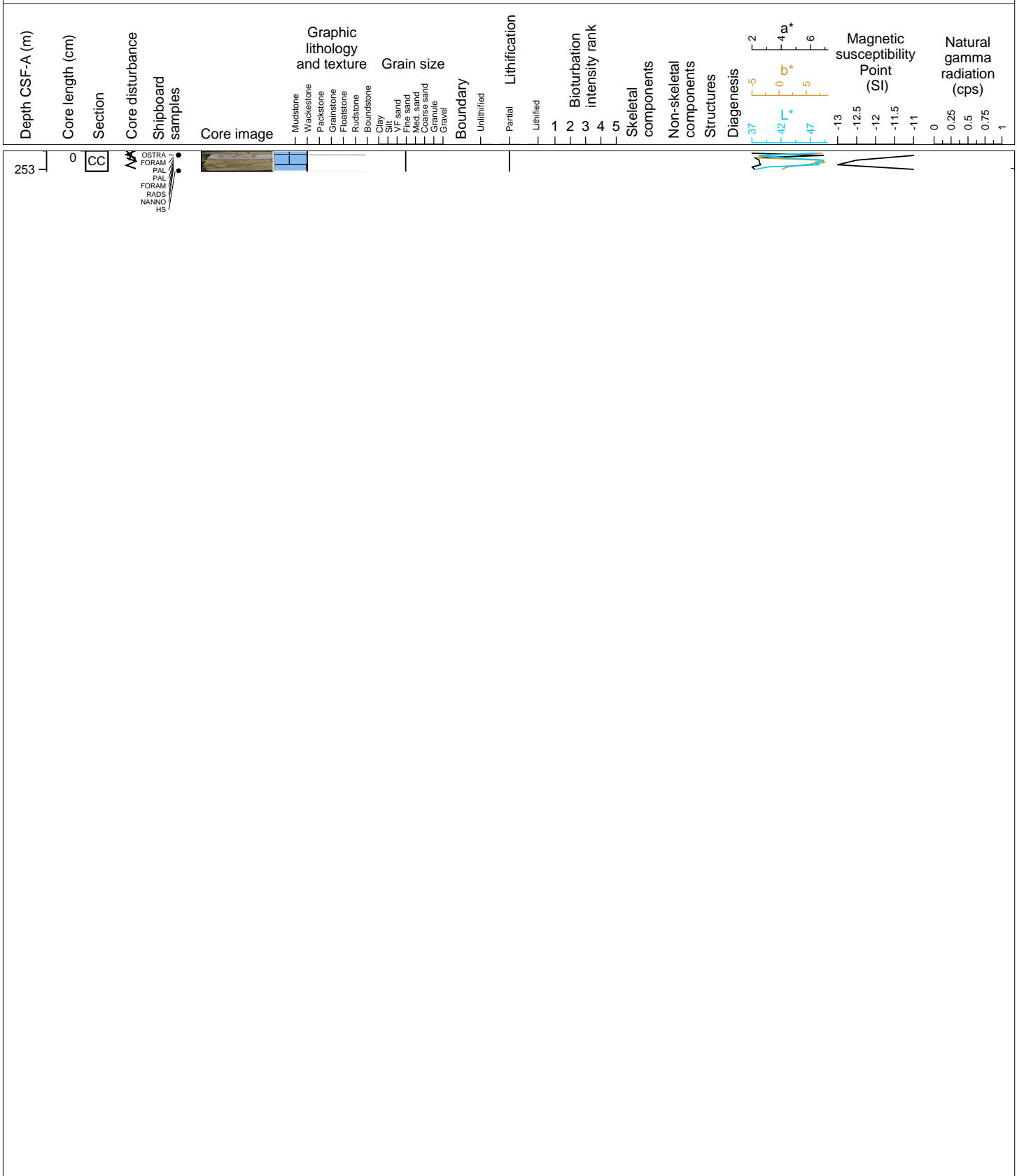
Hole 359-U1468A Core 41X, Interval 243.1-243.6 m (CSF-A)

Major lithology: Partially lithified calcareous WACKESTONE. Very fine- to fine-grained, light gray. Bioclasts are abundant. Minor lithology: None. Remarks: Core catch only. Cave-in for the top 17 cm. Smear slide at 40 cm in 359-U1468A-41X-CC-A.



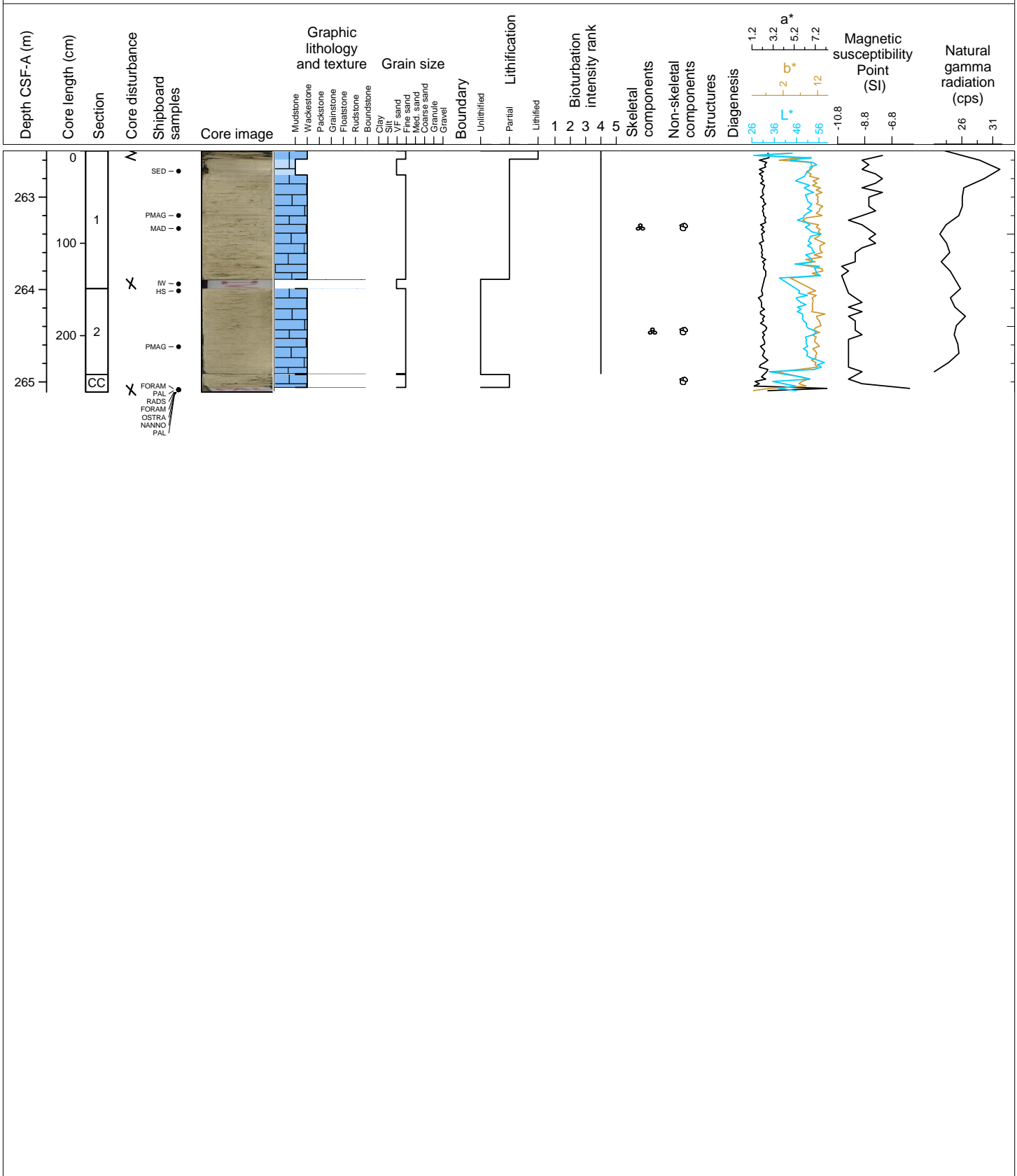
Hole 359-U1468A Core 42X, Interval 252.8-253.02 m (CSF-A)

Major lithology: Partially lithified calcareous WACKESTONE. Fine-grained, light gray. Bioclasts are abundant. Lithoclasts and chert nodules are present. Minor lithology: None. Remarks: Core catch only.



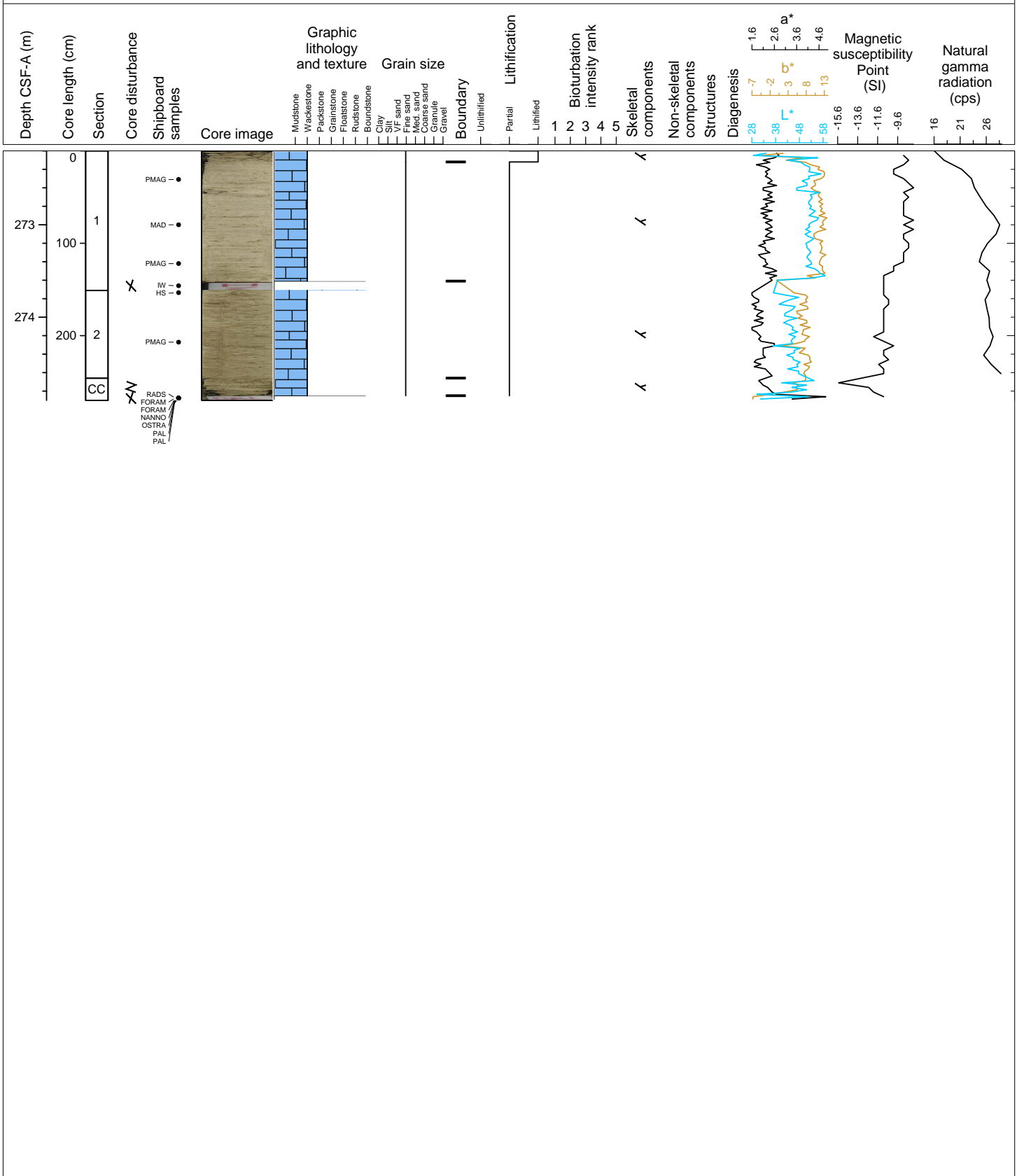
Hole 359-U1468A Core 43X, Interval 262.5-265.11 m (CSF-A)

Major lithology: Partially lithified calcareous WACKESTONE. Fine-grained, light gray. Bioclasts are abundant. Lithoclasts and chert nodules are present. Minor lithology: None. Remarks: N/A



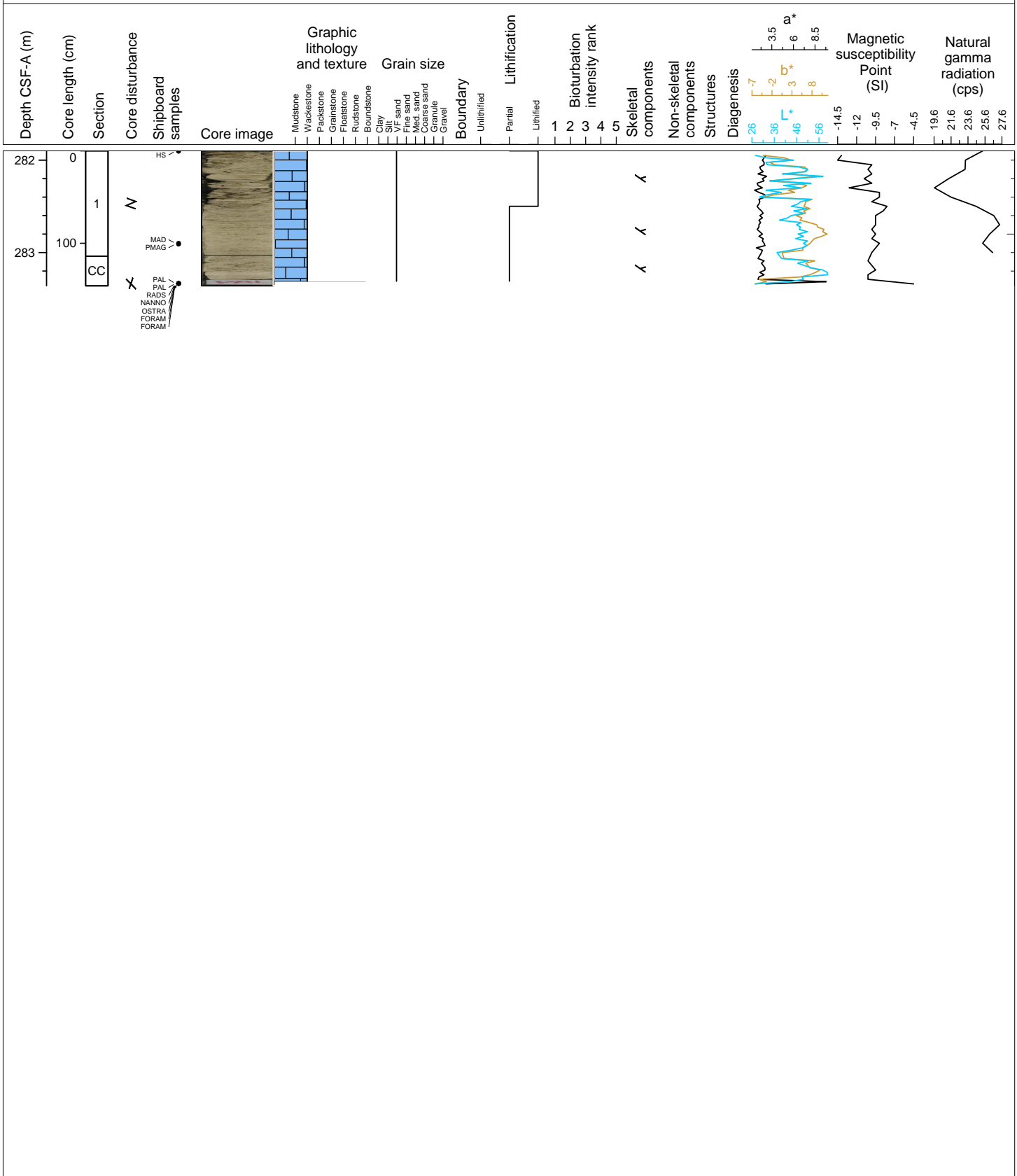
Hole 359-U1468A Core 44X, Interval 272.2-274.9 m (CSF-A)

Major lithology: Partially lithified calcareous WACKESTONE. Fine-grained, pale yellow. Bioclasts are abundant and few sponge spicules. Minor lithology: None.
 Remarks: Cave-in top 12 cm of the core.



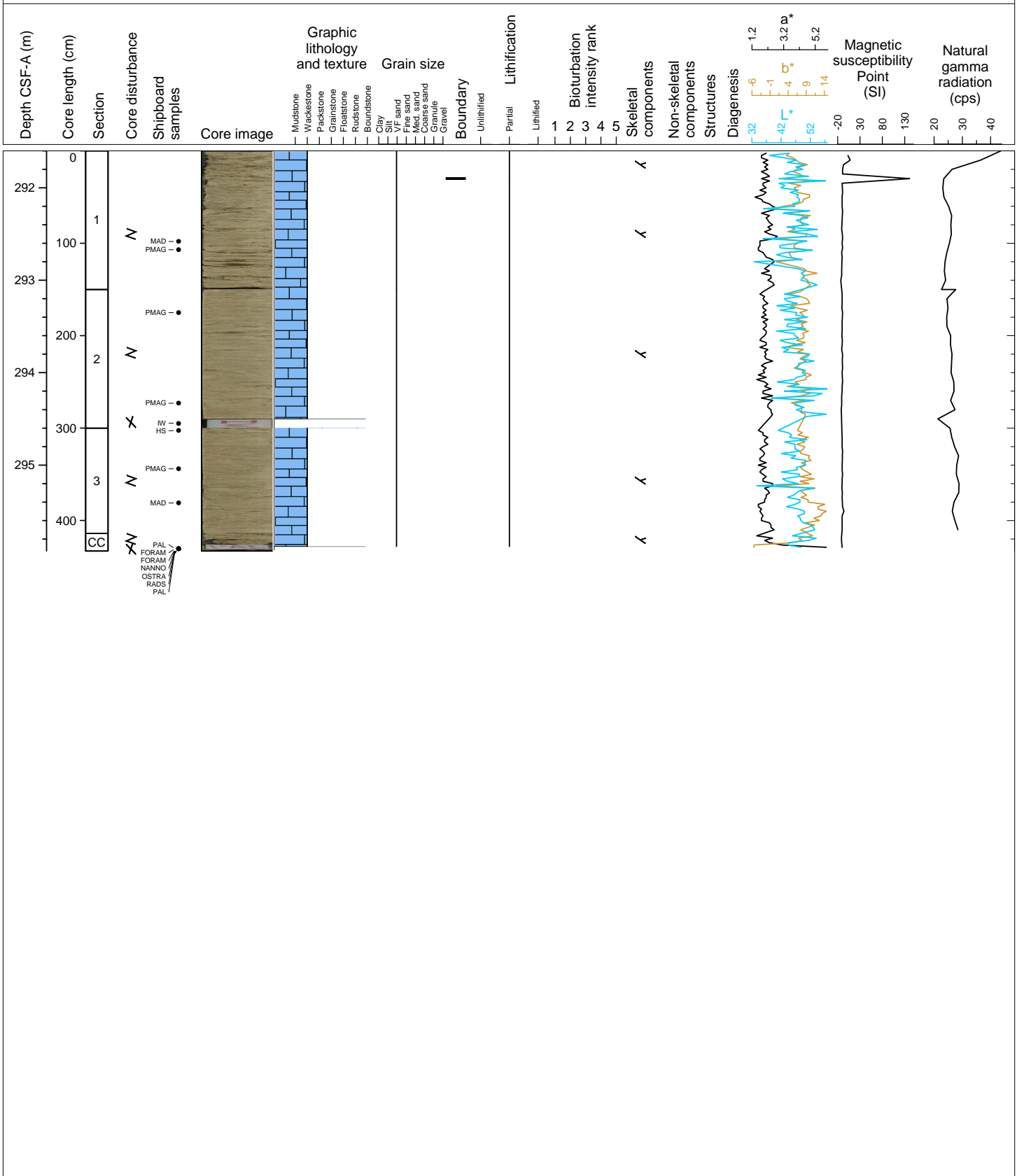
Hole 359-U1468A Core 45X, Interval 281.9-283.36 m (CSF-A)

Major lithology: Partially lithified bioclast-rich calcareous WACKESTONE. Fine-grained, light gray. Fragmented bioclasts are common. Bioturbation is common with minor mottling and lithified burrows present. Minor lithology: None. Remarks: N/A



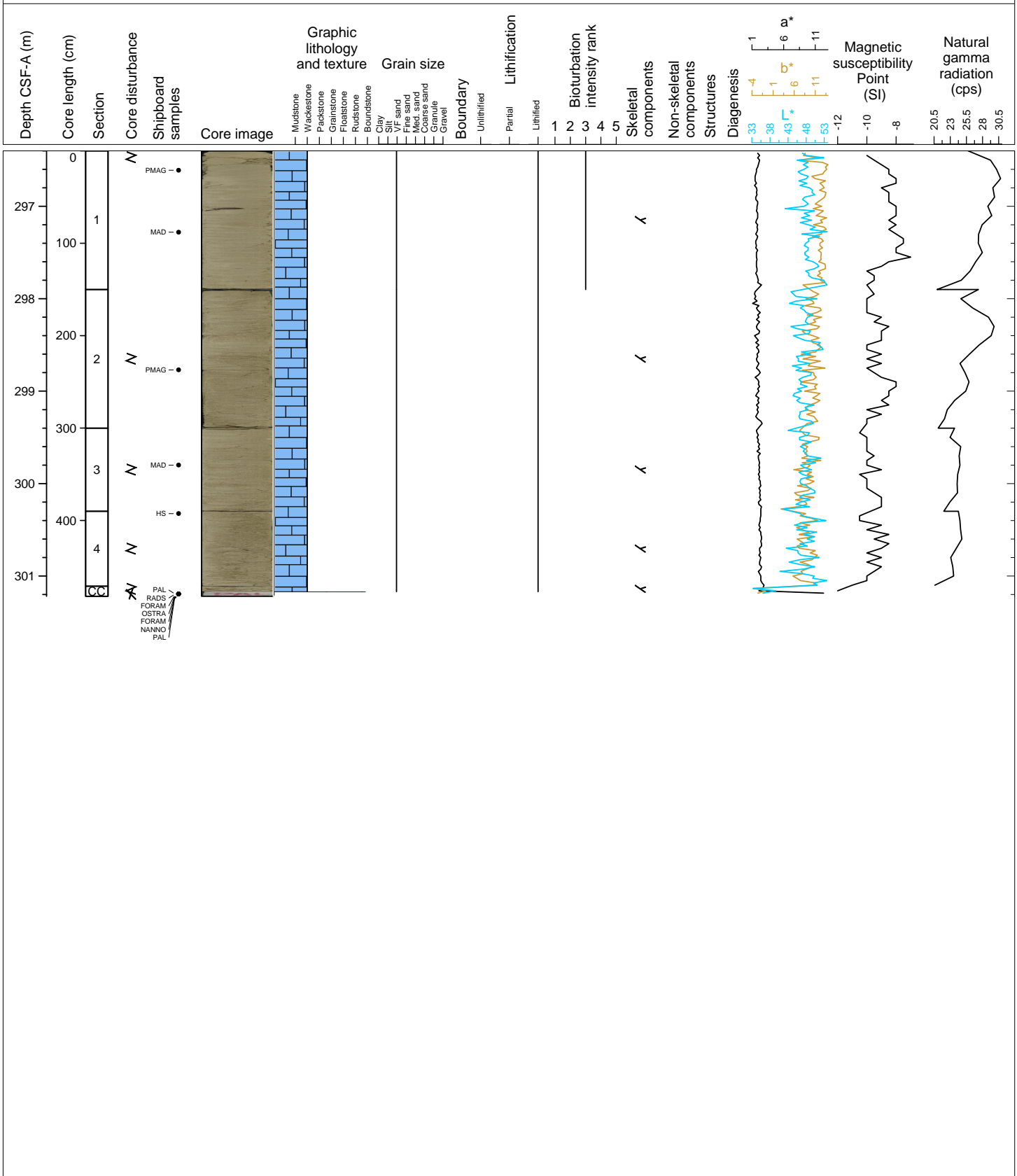
Hole 359-U1468A Core 46F, Interval 291.6-295.93 m (CSF-A)

Major lithology: Partially lithified bioclast-rich calcareous WACKESTONE. Fine-grained, light gray. Fragmented bioclasts are common. Bioturbation is common with minor mottling and lithified burrows are present. Minor lithology: None. Remarks: Cave-in top 30 cm of the core.



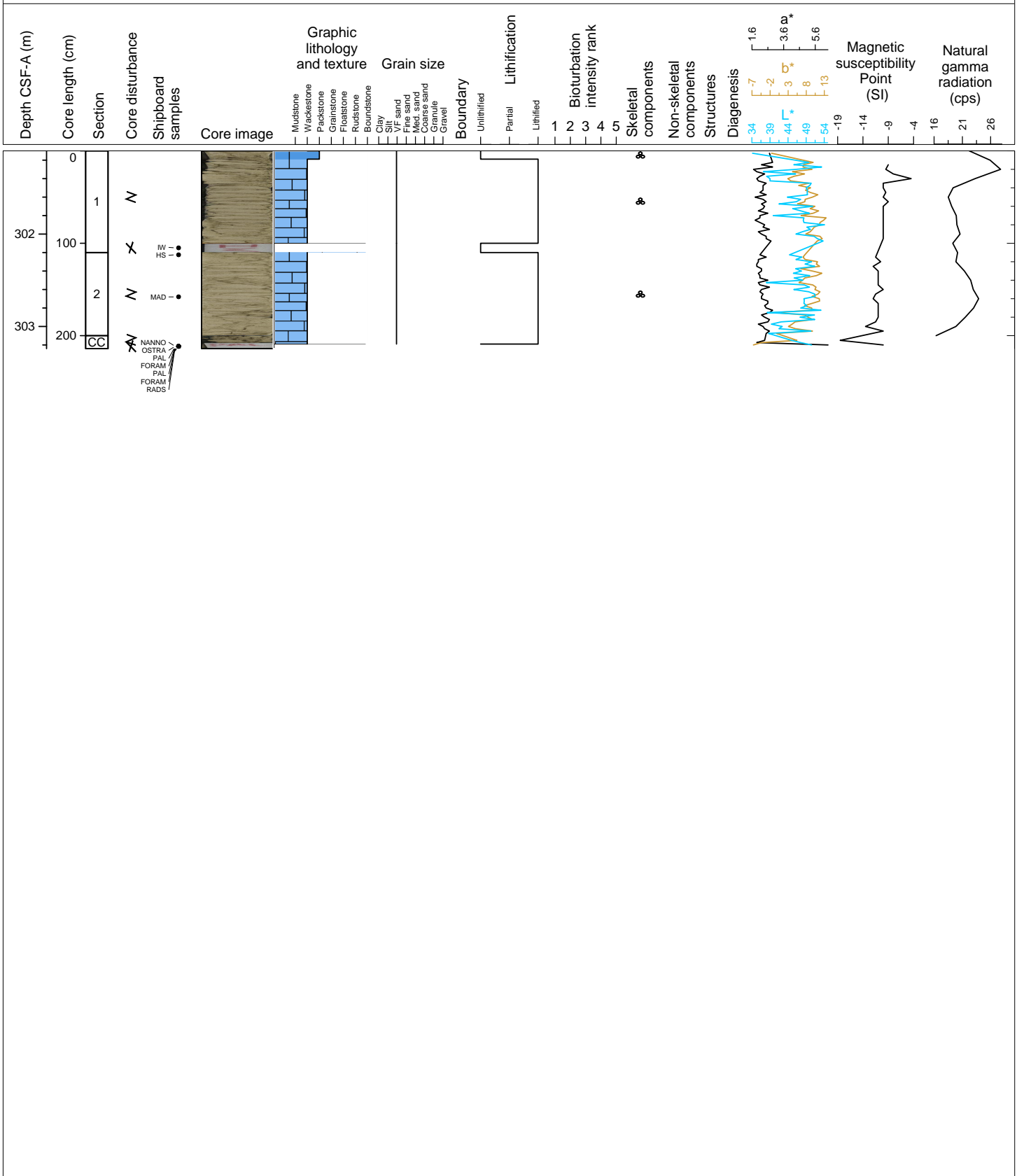
Hole 359-U1468A Core 47F, Interval 296.4-301.22 m (CSF-A)

Major lithology: Partially lithified bioclast-rich calcareous WACKESTONE. Fine-grained, light gray. Fragmented bioclasts are common. Bioturbation is common with minor mottling and lithified burrows are present. Minor lithology: None. Remarks: Chert filled burro photographed 47F-1 62 cm



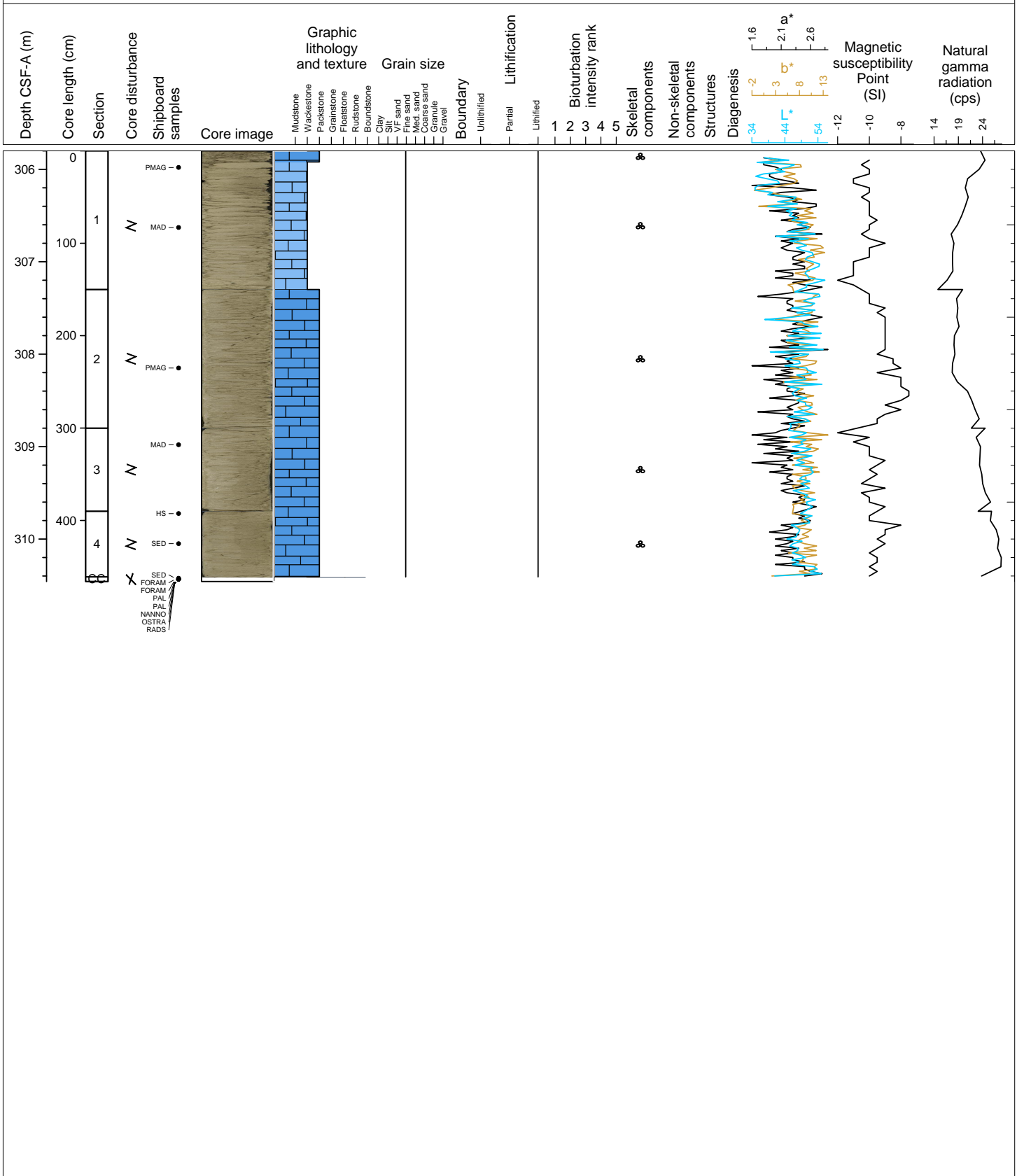
Hole 359-U1468A Core 48F, Interval 301.1-303.24 m (CSF-A)

Major lithology: Partially lithified bioclast-rich calcareous WACKESTONE. Fine-grained, light gray. Fragmented bioclasts are common. Chert fragments and fish remains are present. Bioturbation is common with minor mottling and lithified burrows present. Minor lithology: None. Remarks: N/A



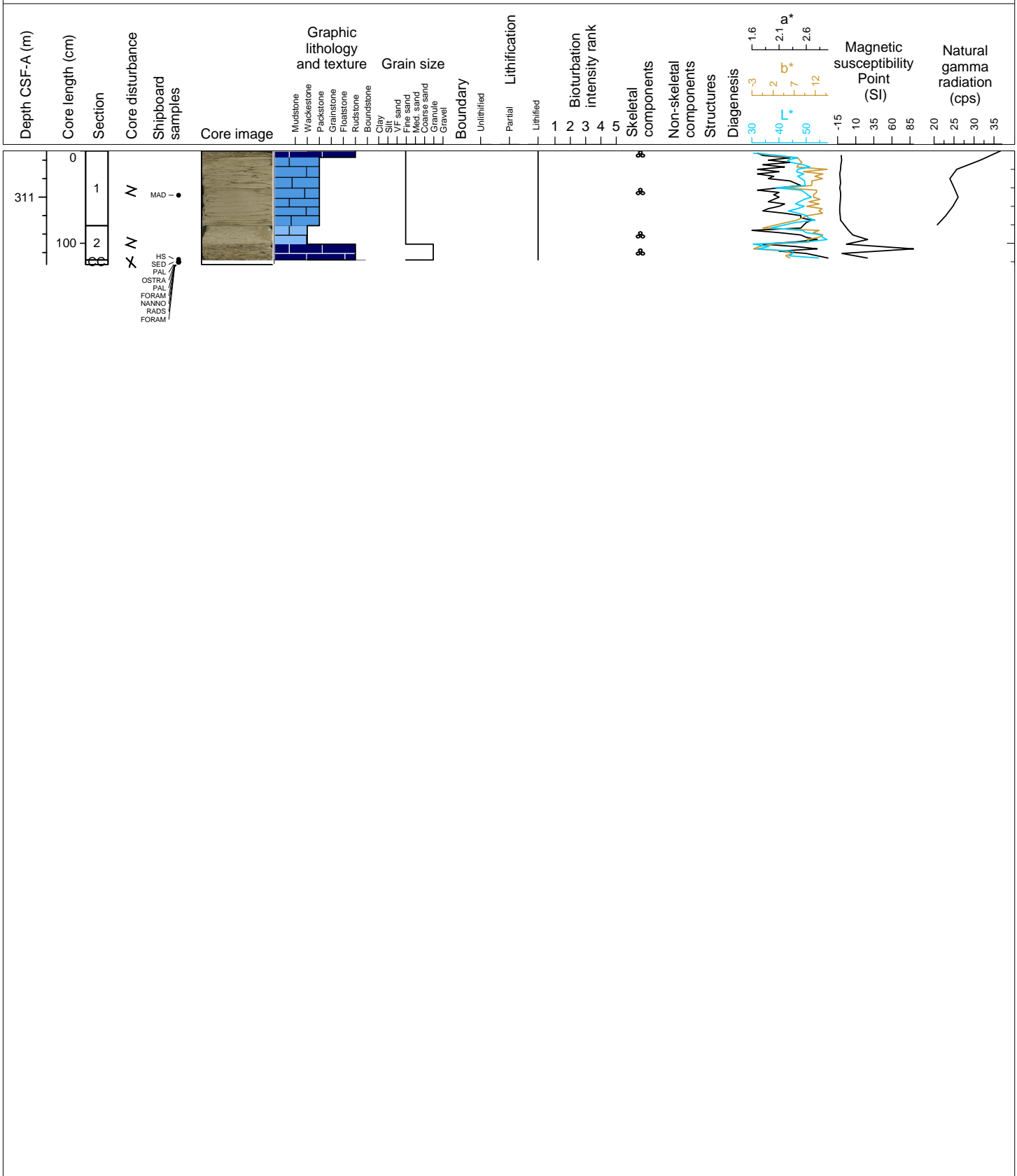
Hole 359-U1468A Core 49F, Interval 305.8-310.46 m (CSF-A)

Major lithology: Lithified, calcareous PACKSTONE. Fine- to medium-grained. Bioclasts are abundant and fragmented. Planktic foraminifera present. Minor lithology: None. Remarks: Cave-in for the top 12 cm of the core.



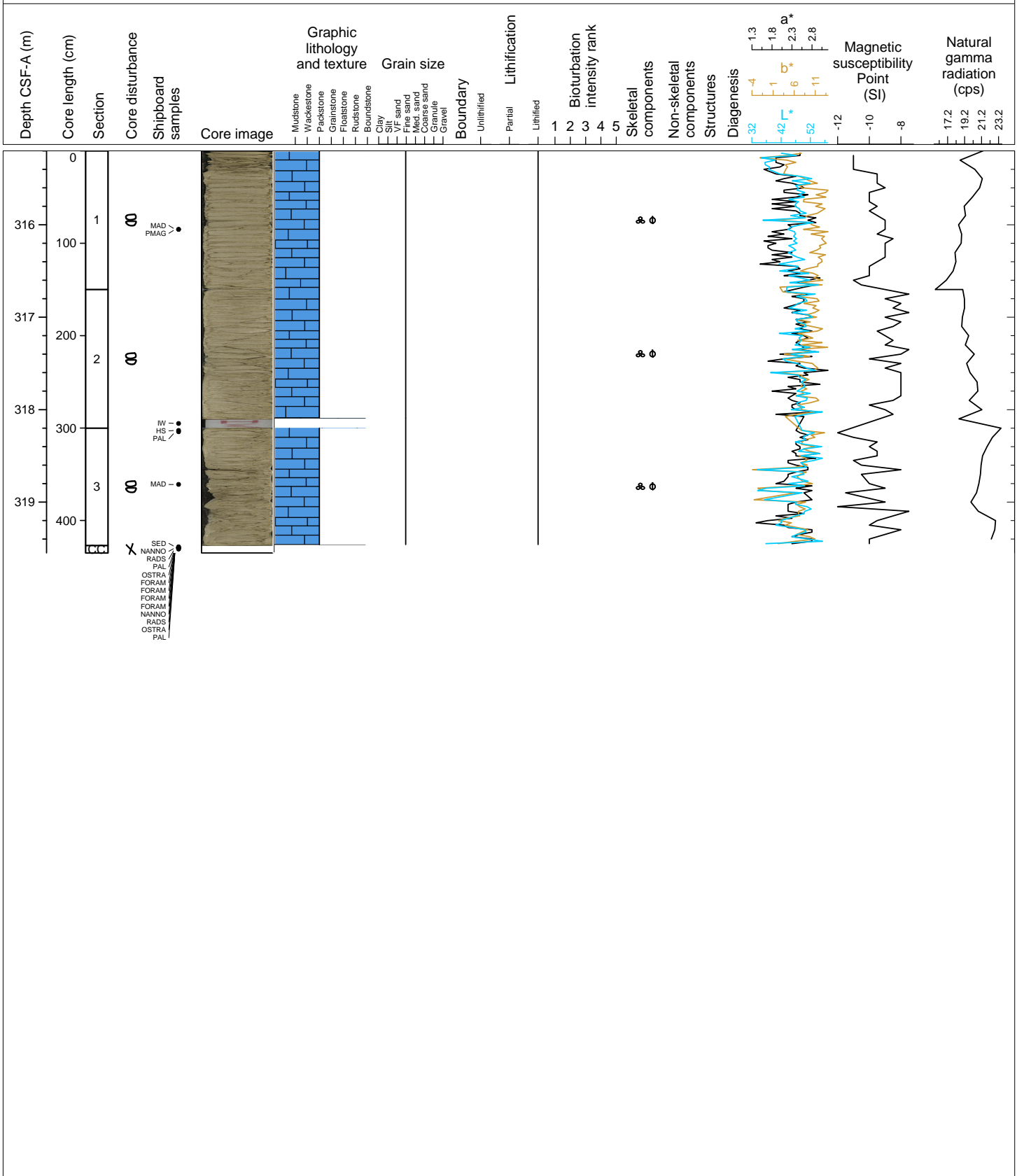
Hole 359-U1468A Core 50F, Interval 310.5-311.73 m (CSF-A)

Major lithology: Lithified, calcareous PACKSTONE. Fine- to medium-grained. Bioclasts are abundant and fragmented. Planktic foraminifera present. Minor lithology: None. Remarks: Cave-in for the top 7 cm of the core. The entire section 2 is disturbed (suck-in), CC all to PAL.



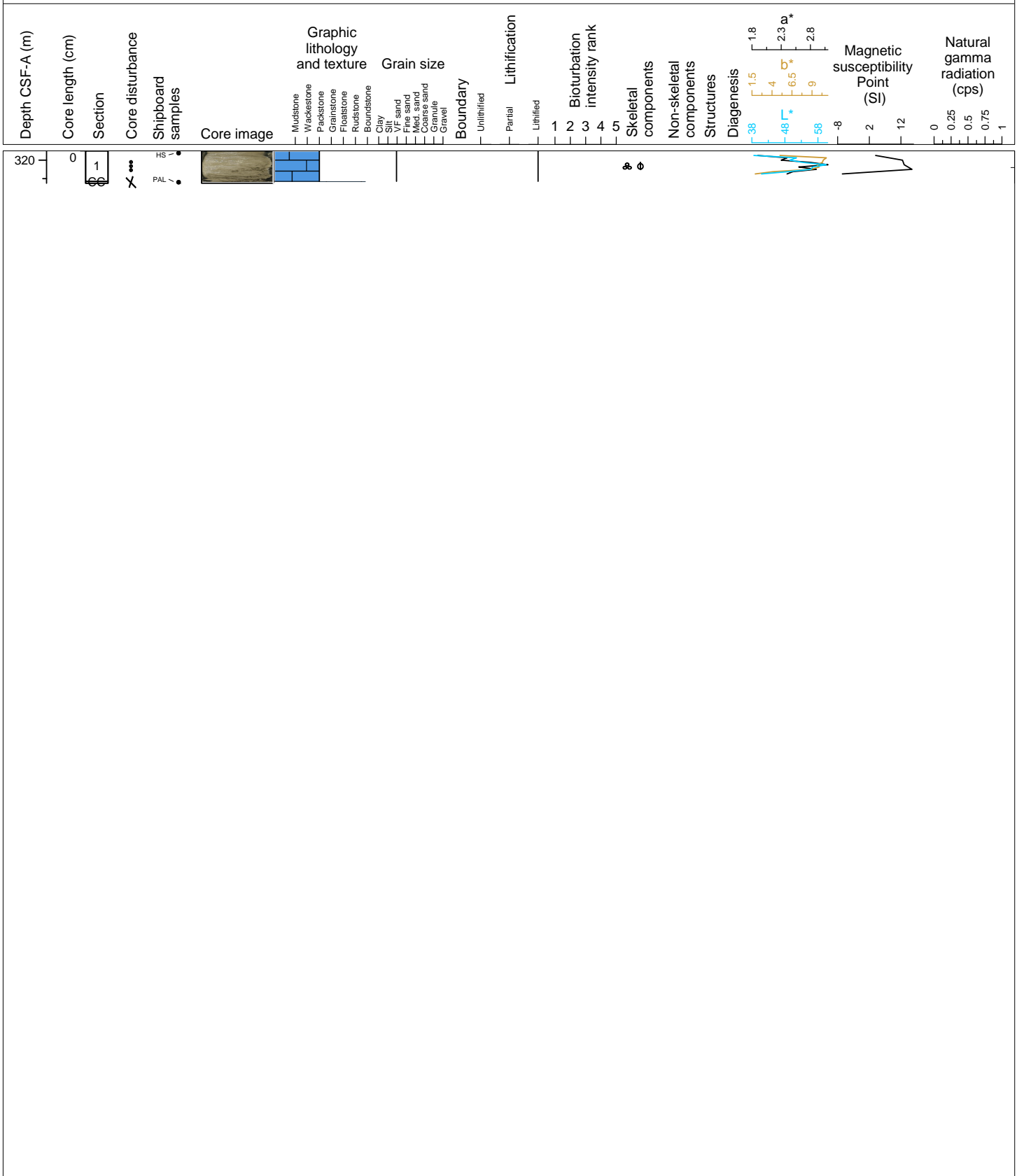
Hole 359-U1468A Core 51F, Interval 315.2-319.55 m (CSF-A)

Major lithology: Lithified calcareous bioclastic-rich PACKSTONE. Fine-grained, light gray. Bioclasts are abundant, few planktic and benthic foraminifera. Minor lithology: None. Remarks: CC all to PAL.



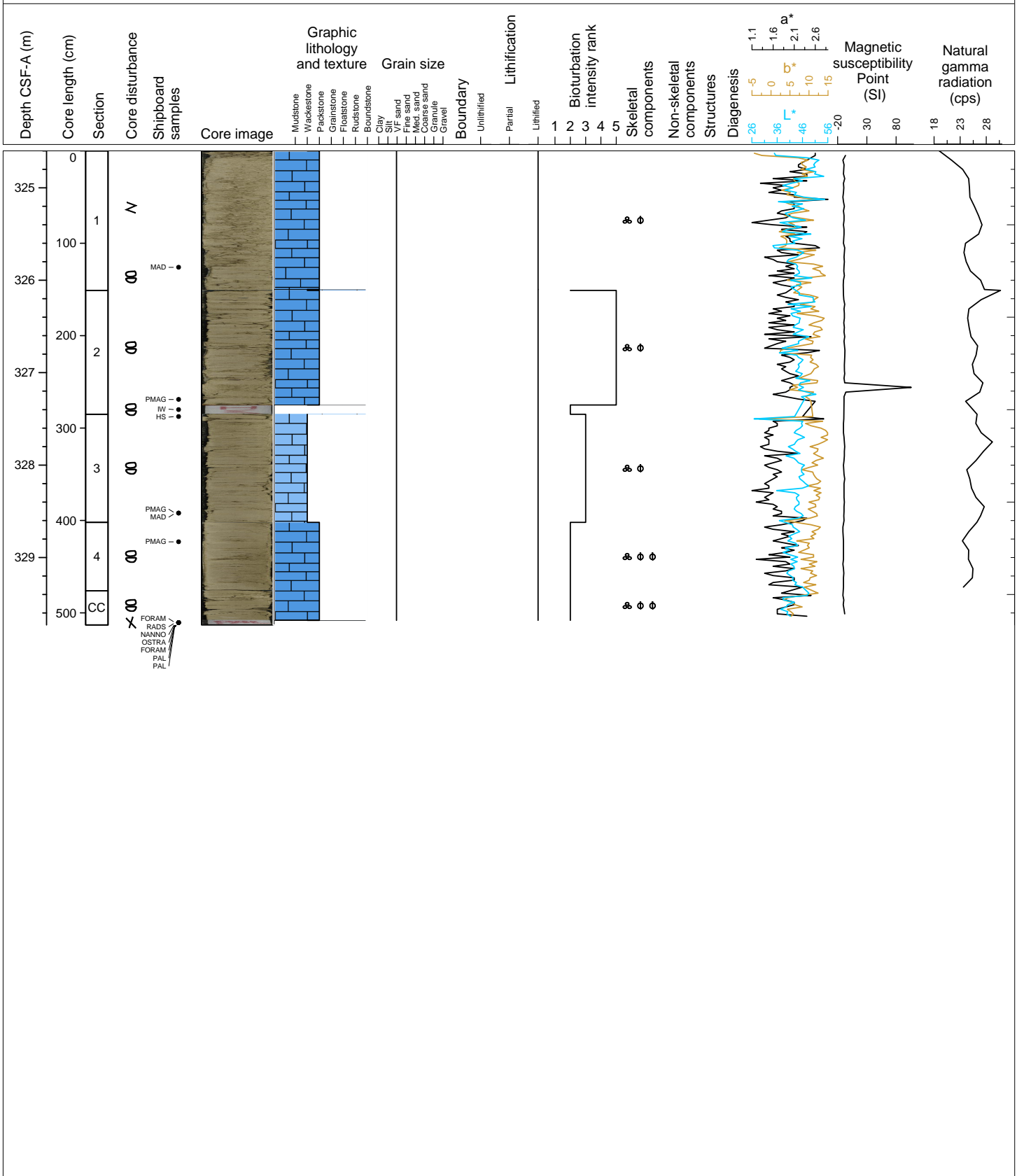
Hole 359-U1468A Core 52F, Interval 319.9-320.25 m (CSF-A)

Major lithology: Highly disturbed unlithified to partially lithified planktic foraminifera-rich PACKSTONE. Very fine-grained, light brownish gray. Planktic and benthic foraminifera are common. Few chert fragments. Minor lithology: None. Remarks: CC all to PAL.



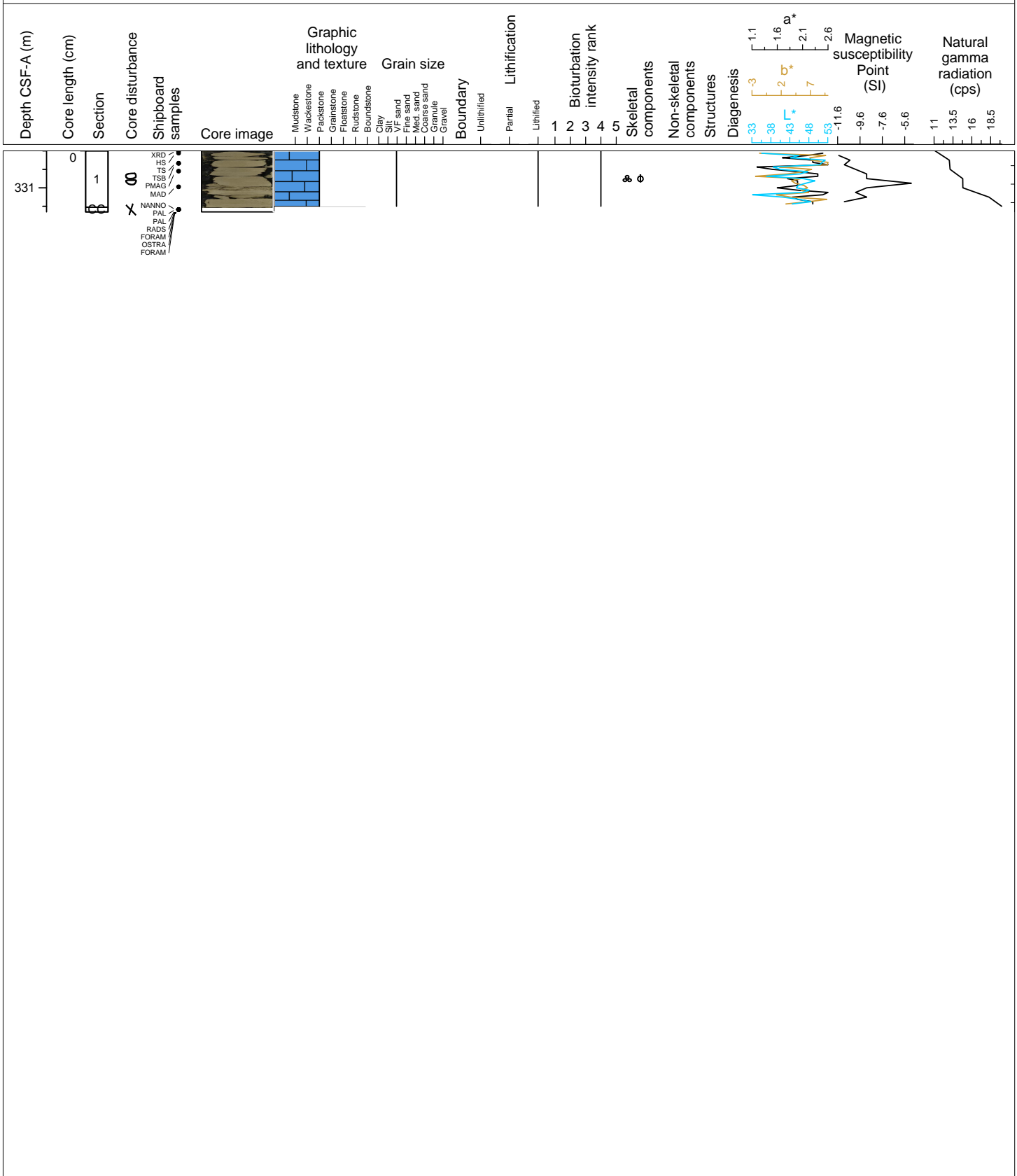
Hole 359-U1468A Core 53X, Interval 324.6-329.73 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich PACKSTONE to WACKESTONE. Very fine- to fine-grained, light olive gray. Planktic and benthic foraminifera are common, large benthic foraminifera are present. Bioturbation is complete with Palaeophycus identified. Minor lithology: None. Remarks: N/A



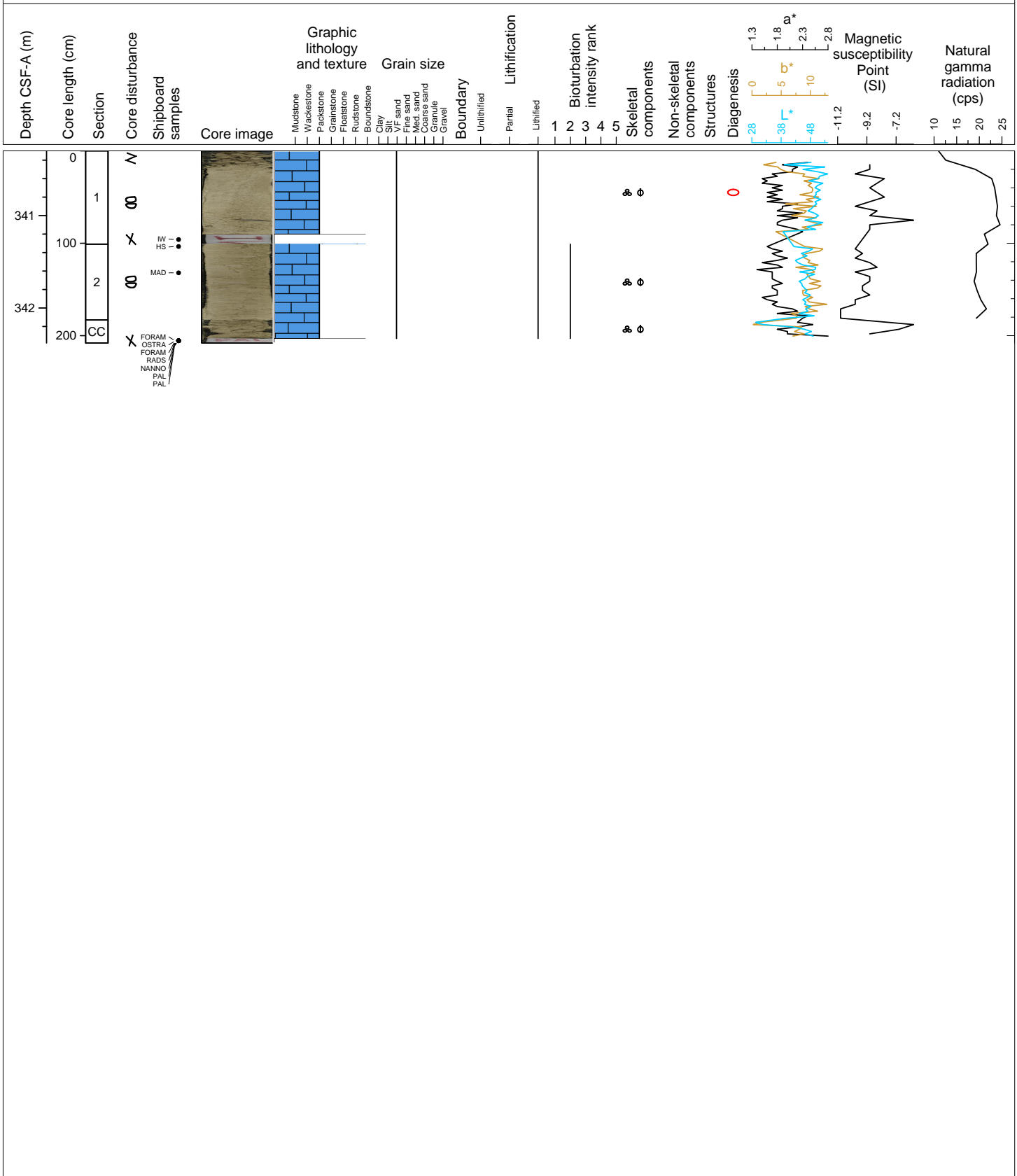
Hole 359-U1468A Core 54X, Interval 330.6-331.26 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich PACKSTONE. Very fine- to fine-grained, very well-sorted, light olive gray. Planktic and benthic foraminifera are common. Bioturbation is common with Planolites and Chondrites present. Minor lithology: None. Remarks: Low recovery, CC all to PAL.

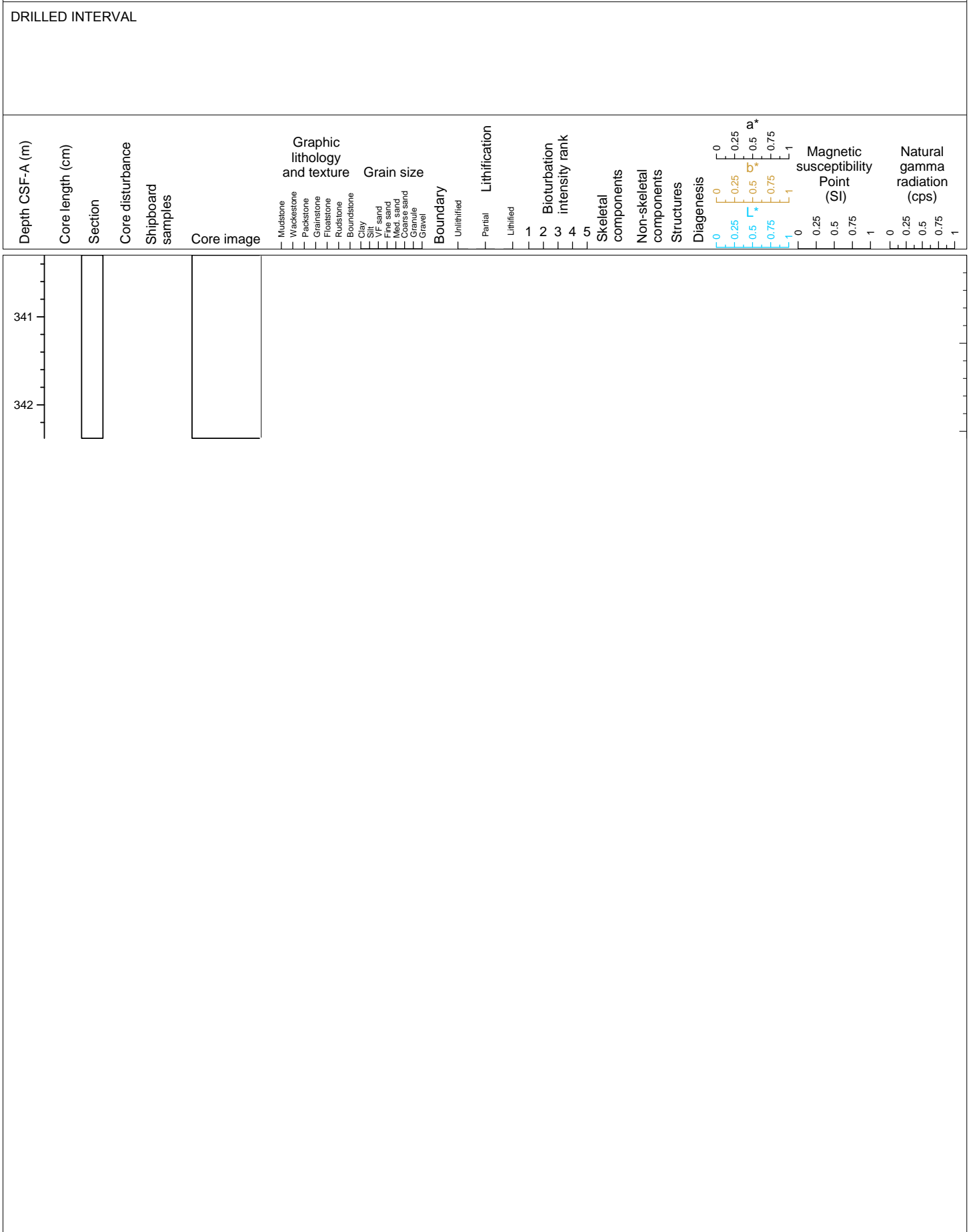


Hole 359-U1468A Core 55X, Interval 340.3-342.38 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich PACKSTONE. Very fine- to fine-grained, moderately-sorted, light olive gray. Planktic and benthic foraminifera are common and few chert fragments. Bioturbation is slight. Minor lithology: None. Remarks: N/A

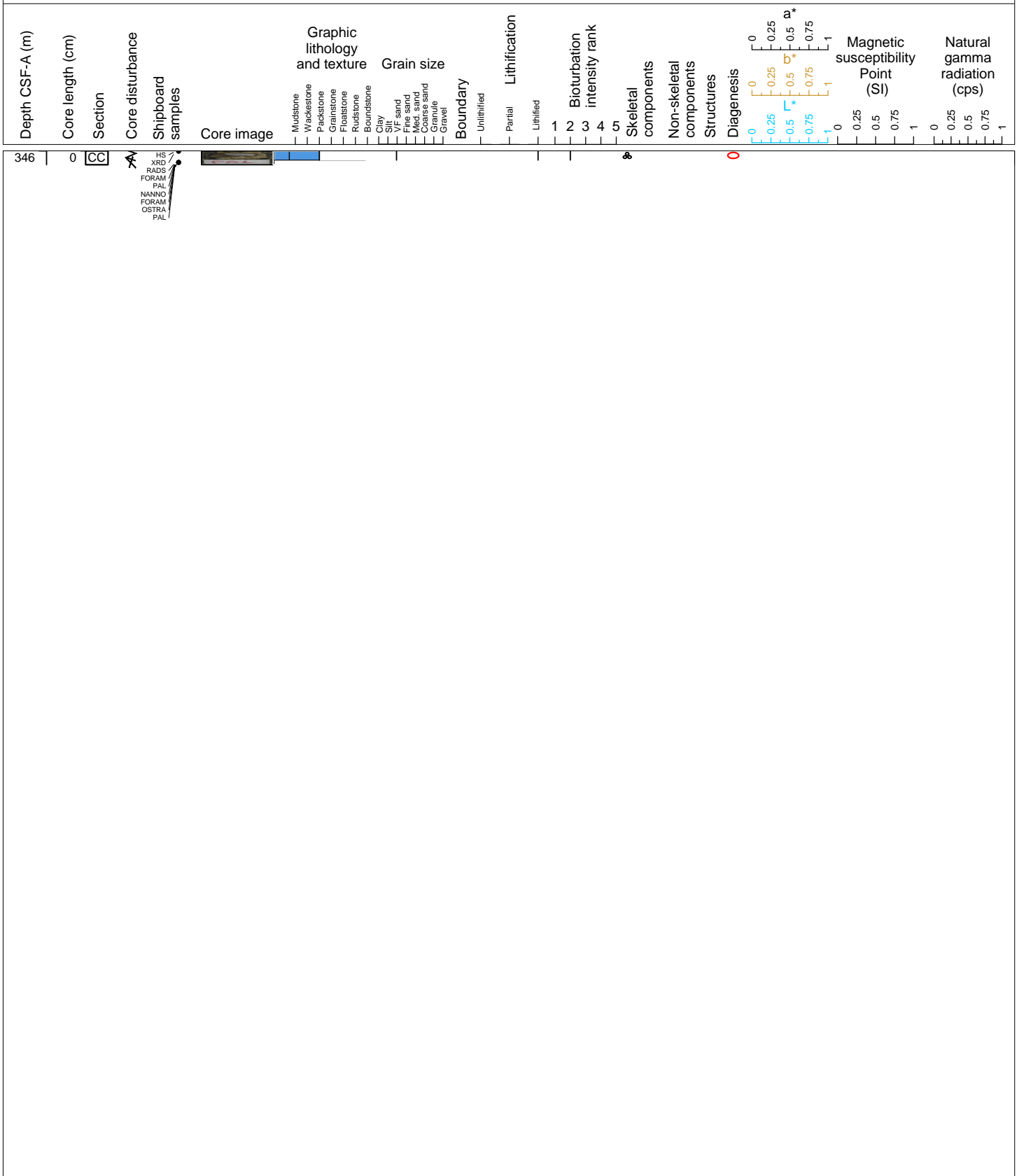


Hole 359-U1468A Core 561, Interval 345.0-345.0 m (CSF-A)



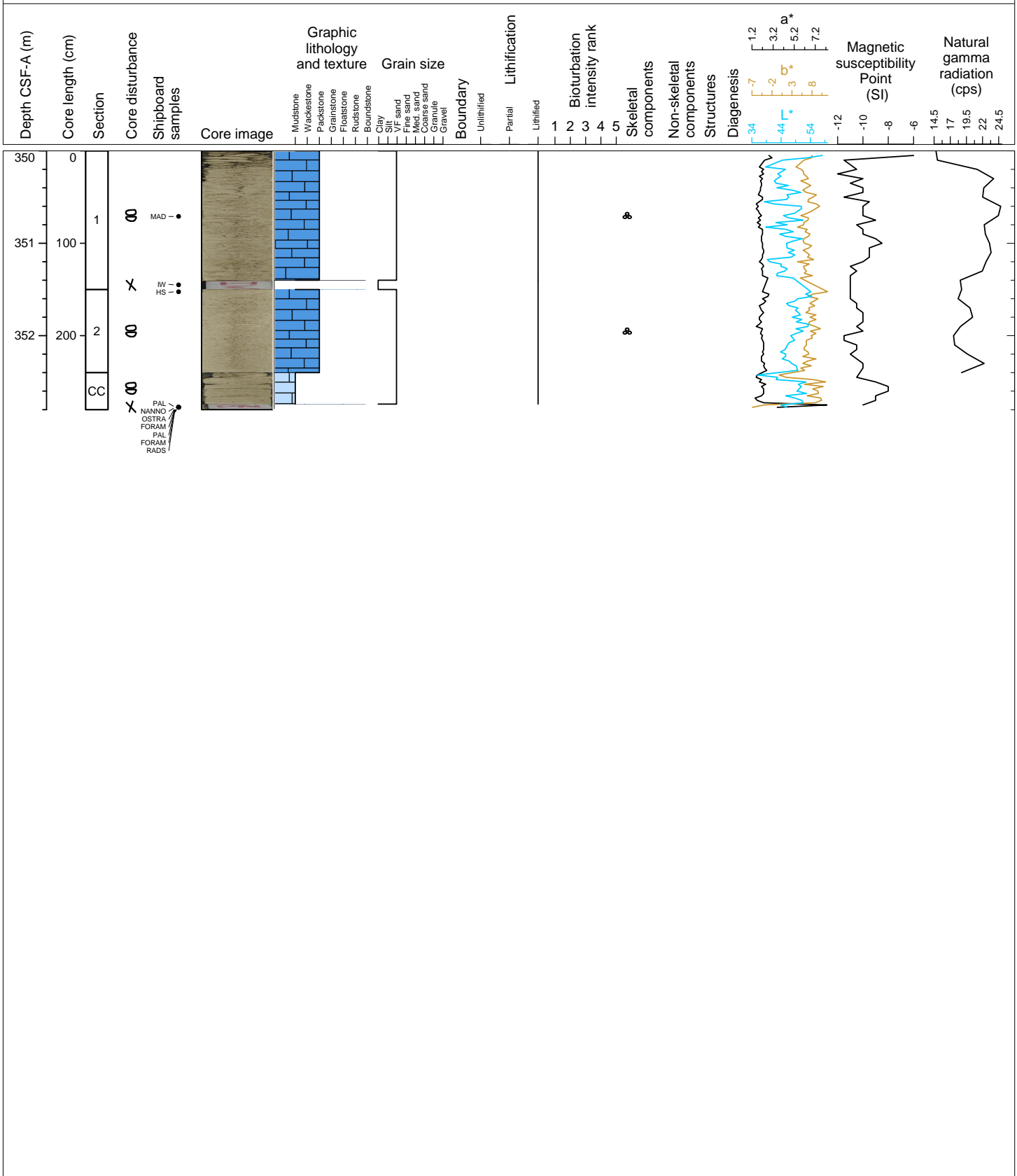
Hole 359-U1468A Core 57X, Interval 346.0-346.15 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich PACKSTONE. Light olive gray. Chert. Minor lithology: None. Remarks: Low recovery (Only CC). Highly Fragmented.



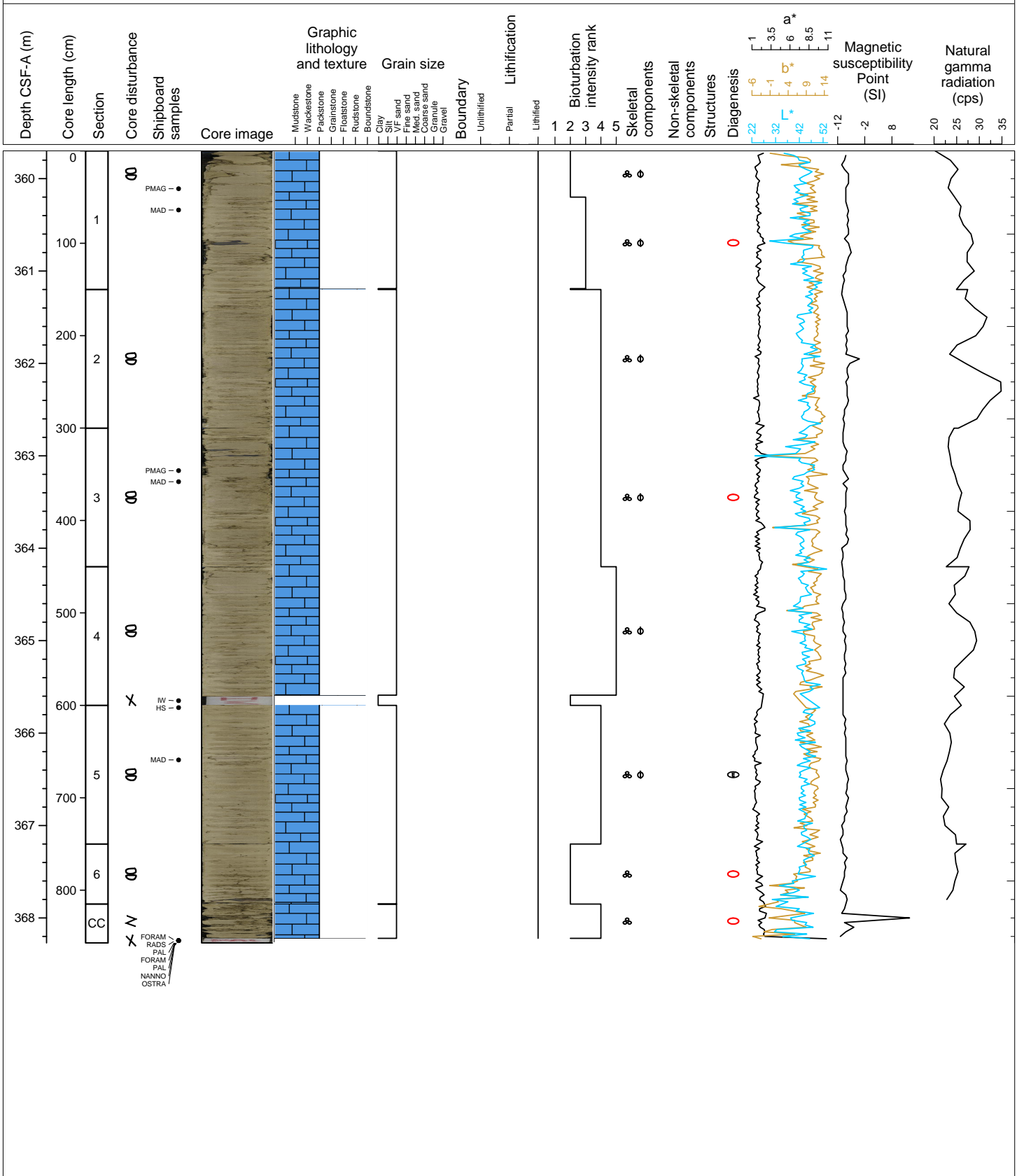
Hole 359-U1468A Core 58X, Interval 350.0-352.8 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich PACKSTONE to MUDSTONE. Very fine- to fine-grained, moderately-sorted, light olive gray. Planktic foraminifera are common. Minor lithology: None. Remarks: Highly disturbed by drilling disturbances.



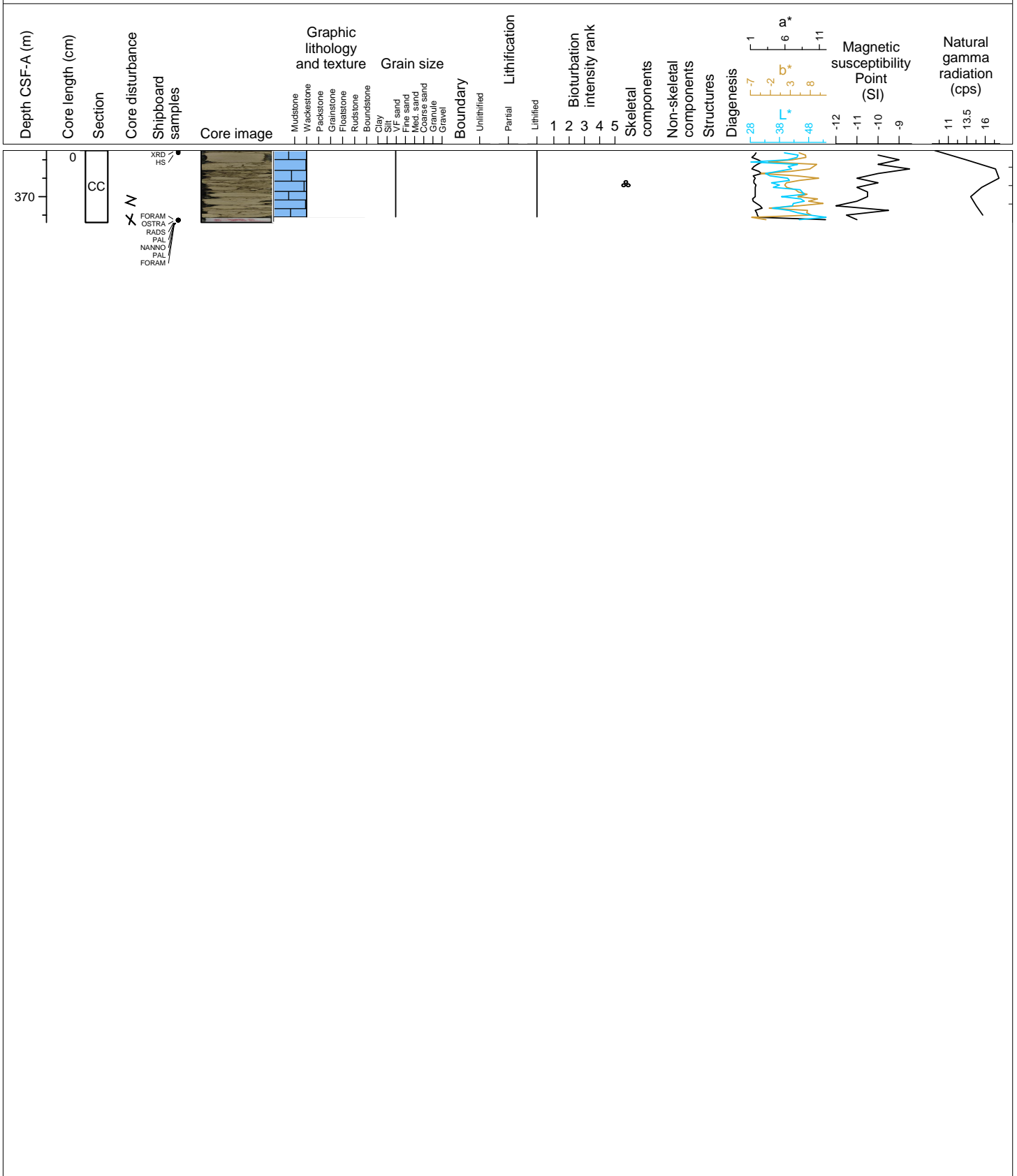
Hole 359-U1468A Core 59X, Interval 359.7-368.27 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich PACKSTONE. Very fine- to fine-grained, well- to poorly-sorted, light olive gray. Benthic and planktic foraminifera are common. Slightly to completely bioturbated. Thalassinoides, Planolites and chondrites are common. Minor lithology: None. Remarks: SEM Sample 359-U1468A-59X-5, 64 cm (unidentified calcareous material).



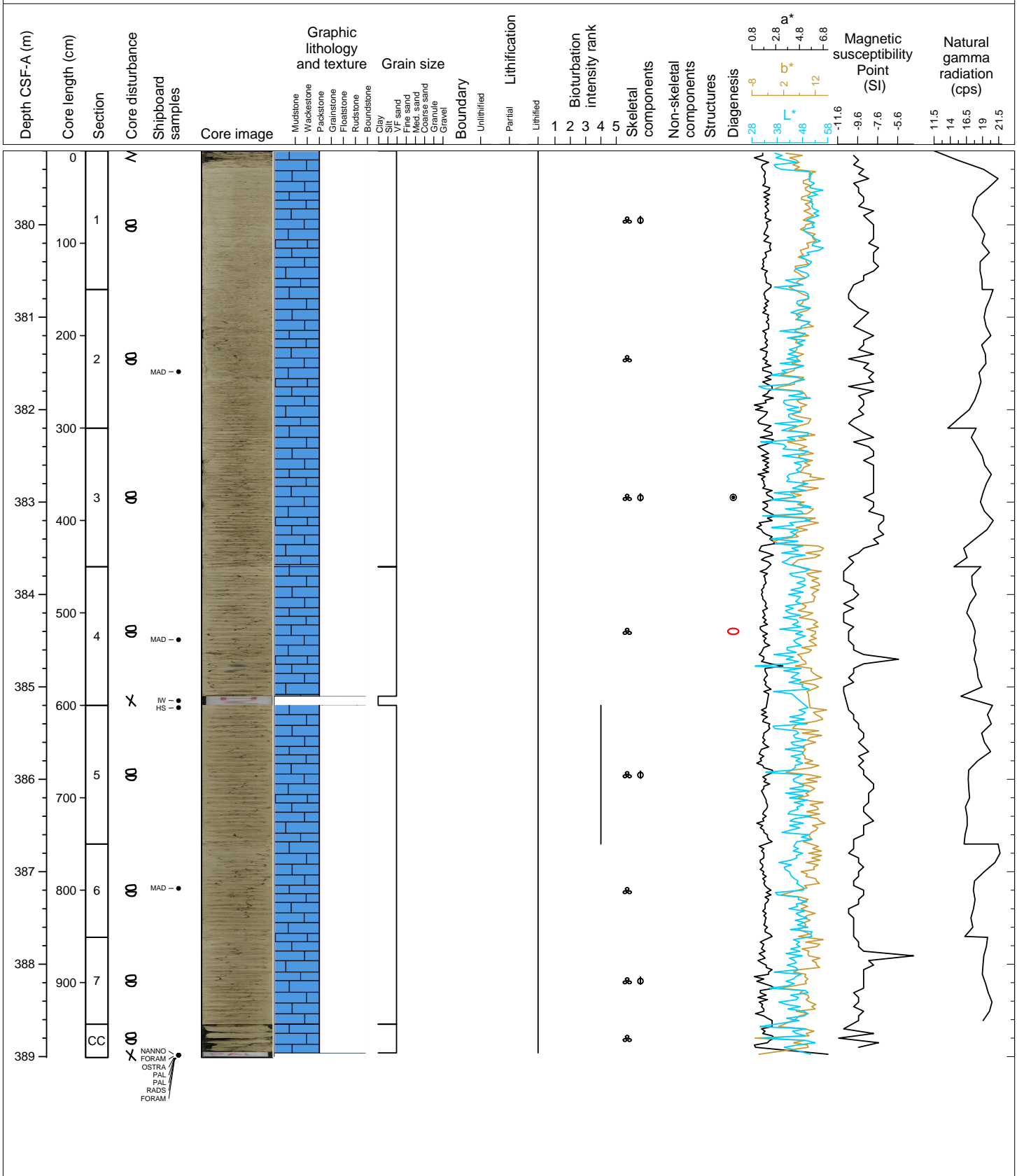
Hole 359-U1468A Core 60X, Interval 369.5-370.28 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich WACKESTONE. Very fine- to fine-grained, poorly-sorted, light olive gray. Benthic and planktic foraminifera are common. Minor lithology: None. Remarks: Only CC.



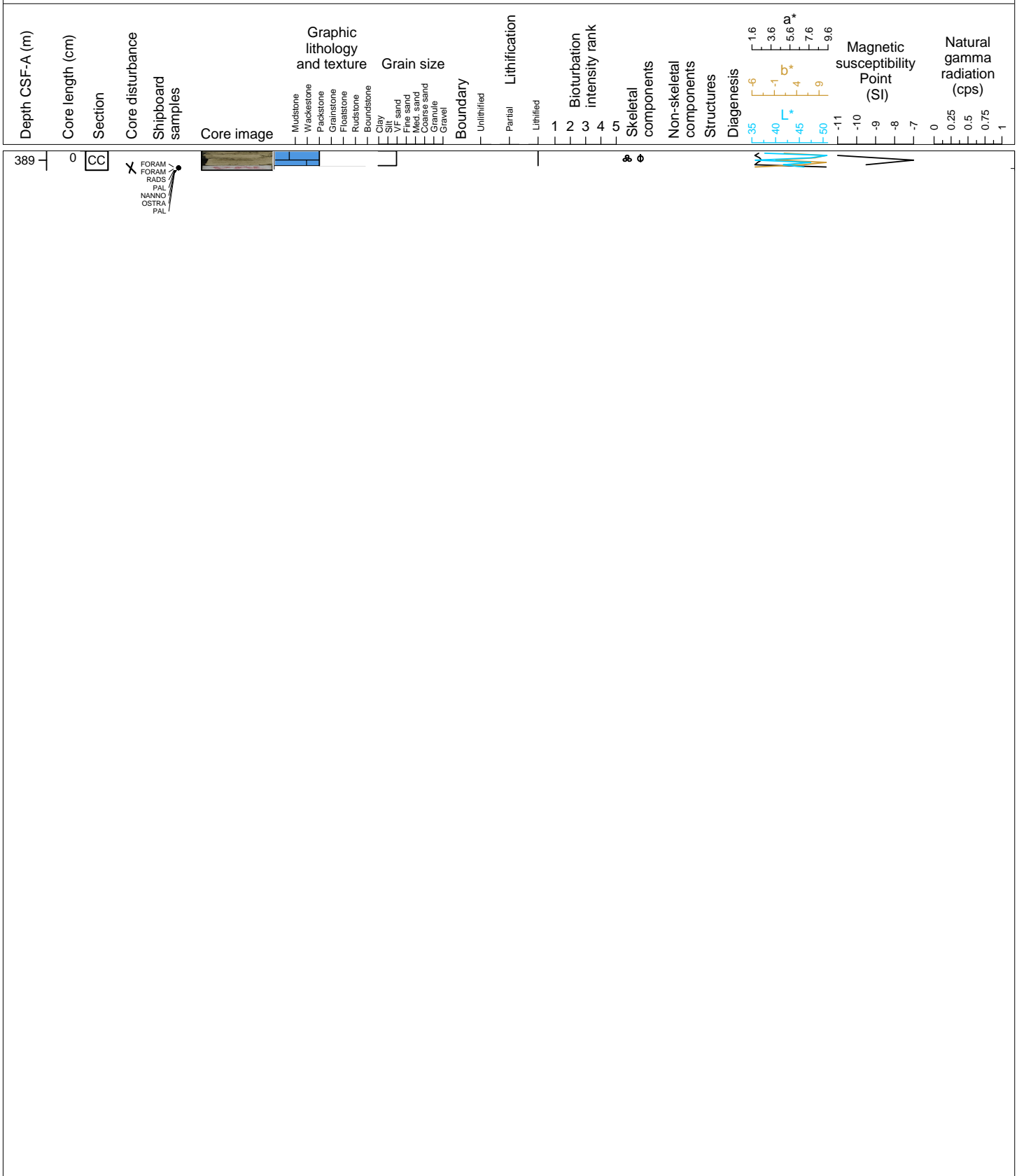
Hole 359-U1468A Core 61X, Interval 379.2-389.01 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich PACKSTONE. Very fine- to fine-grained, well-sorted, light olive gray. Benthic and planktic foraminifera. Bioturbation is common to complete with several generations of burrows, where discernable, Planolites and Chondrites were identified. Chert nodules are present. Minor lithology: None. Remarks: N/A



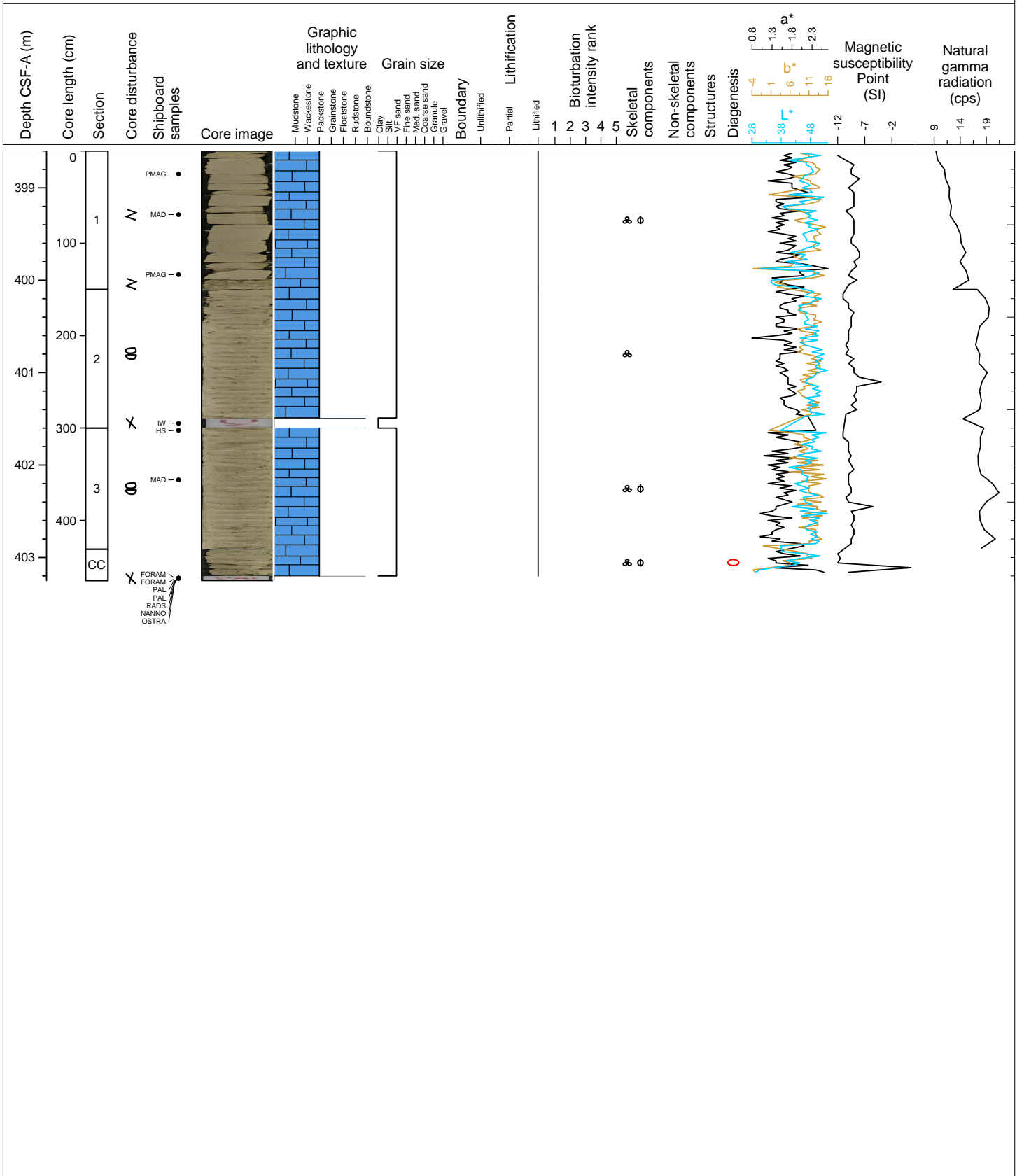
Hole 359-U1468A Core 62X, Interval 388.9-389.11 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich PACKSTONE. Very fine- to fine-grained, well-sorted, light olive gray. Benthic and planktic foraminifera are common. Bioturbation is common to complete with several generations of burrows. Minor lithology: None. Remarks: Only CC.



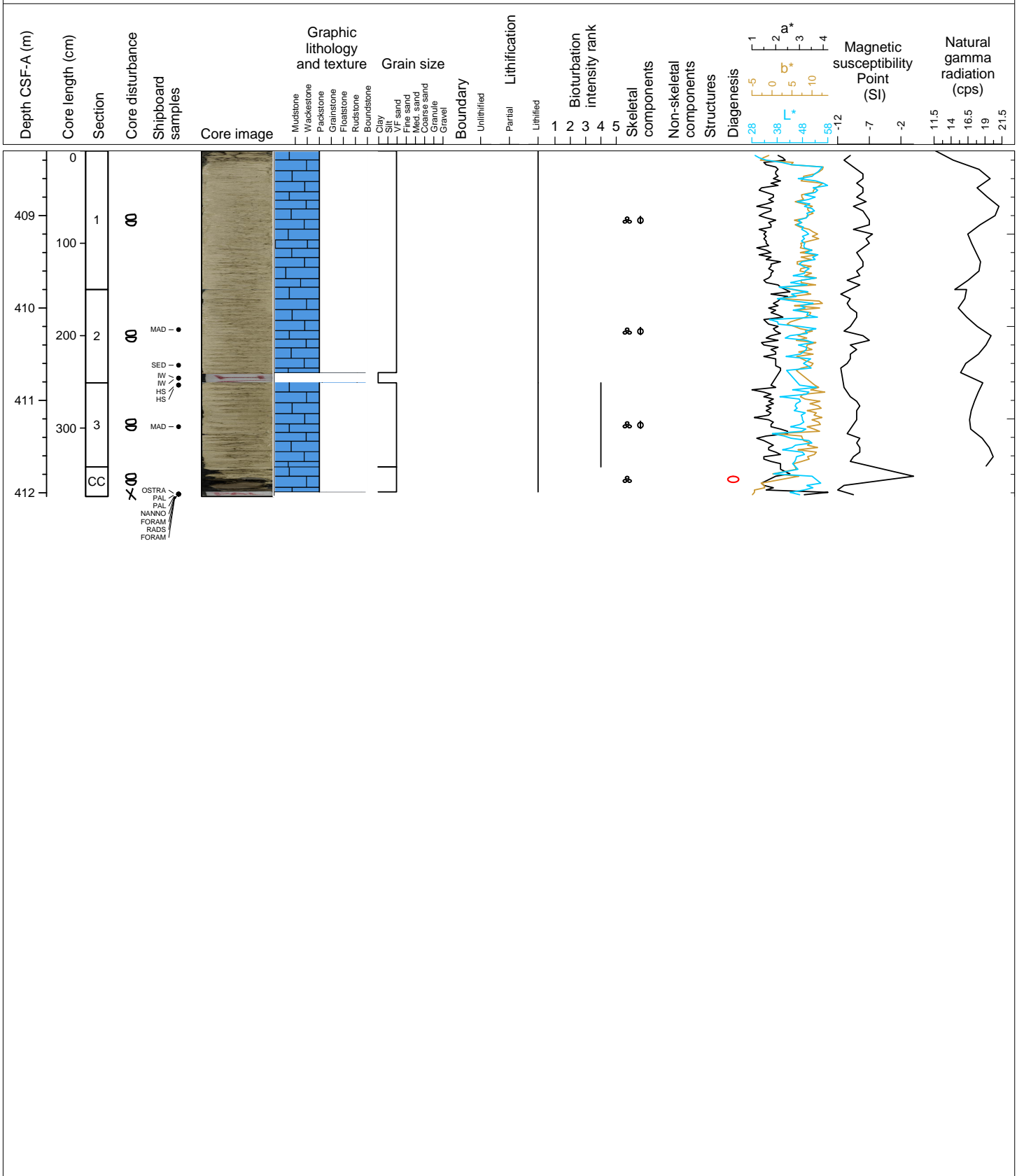
Hole 359-U1468A Core 63X, Interval 398.6-403.25 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich PACKSTONE. Very fine- to fine-grained, well-sorted, light olive gray to pale yellow. Benthic and planktic foraminifera are common. B Bioturbation is common to complete with several generations of burrows, where discernable, Palaeophycus and Chondrites were identified. Minor lithology: None. Remarks: Possible alternations between lithified and unlithified material, cannot be determined due to drilling disturbances.



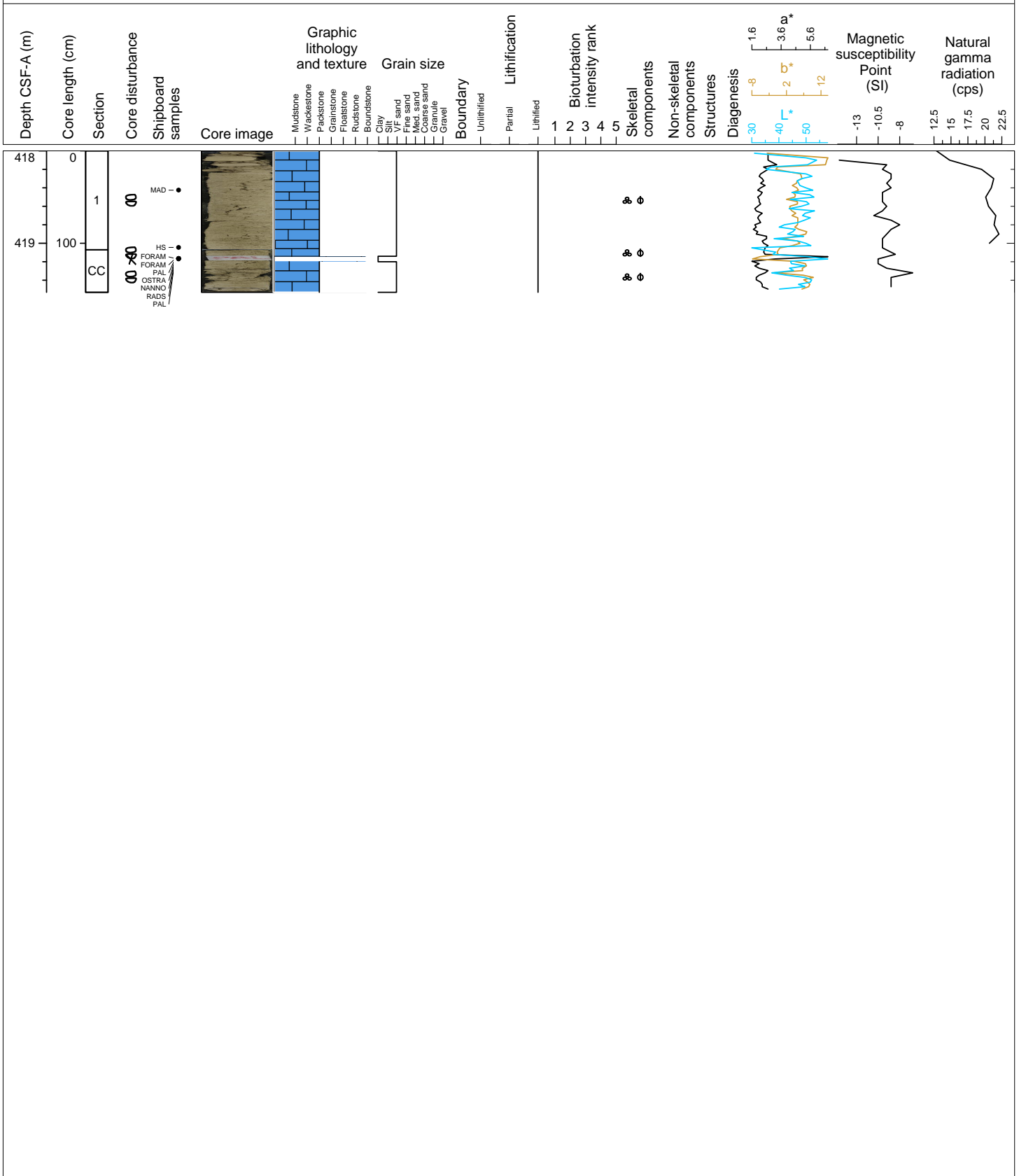
Hole 359-U1468A Core 64X, Interval 408.3-412.04 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich PACKSTONE. Very fine- to fine-grained, well-sorted, light olive gray to pale yellow. Benthic and planktic foraminifera are common. Bioturbation is common to complete with several generations of burrows, where discernable, Palaeophycus and Chondrites were identified. Minor lithology (base of CC): Chert. Remarks: Possible alternations between lithified and unlithified material, cannot be determined due to drilling disturbances. Smear slide at 359-U1468A-65X-2, 82 cm.



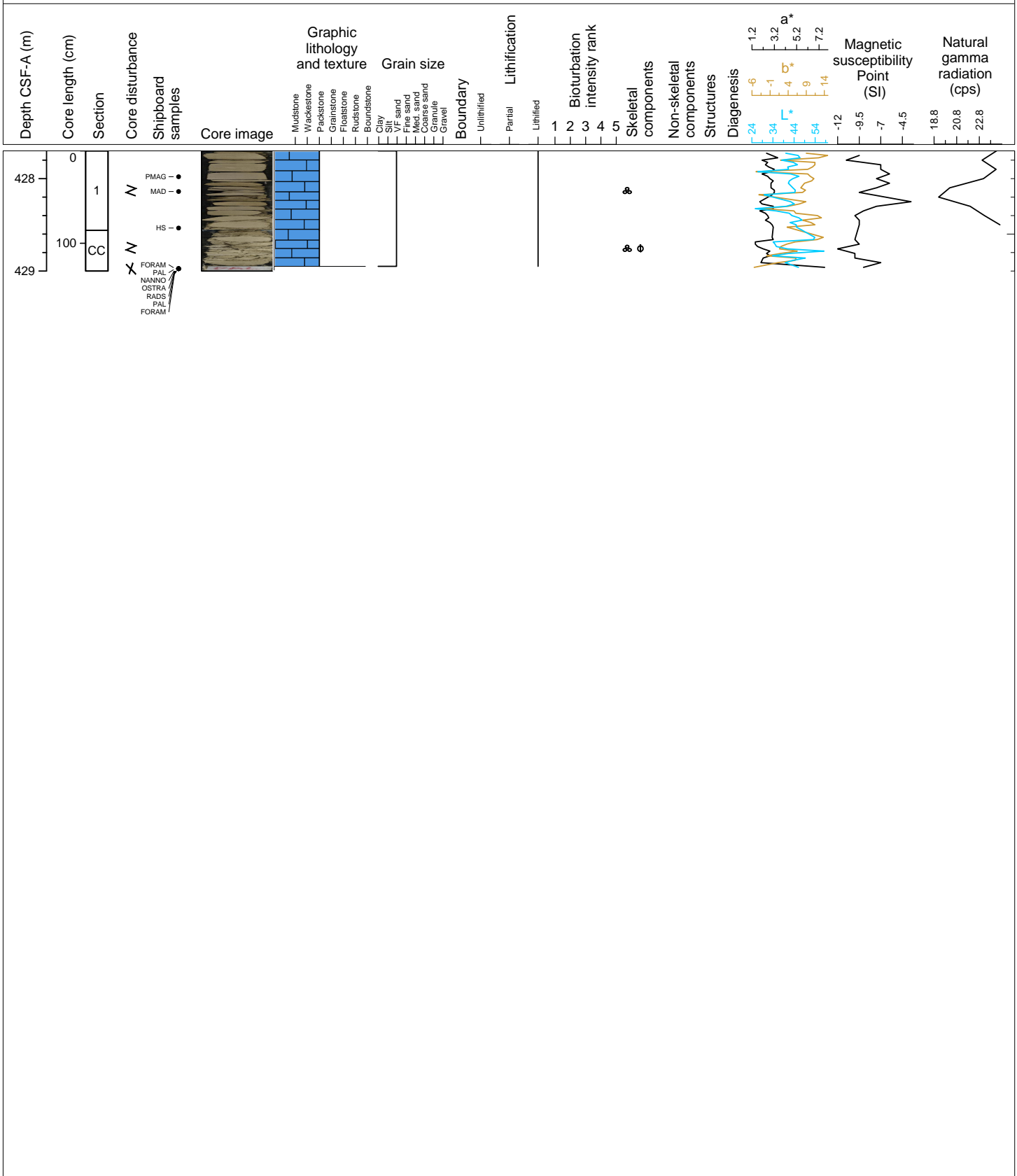
Hole 359-U1468A Core 65X, Interval 418.0-419.53 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich PACKSTONE. Very fine- to fine-grained, well-sorted, light gray to pale yellow. Benthic and planktic foraminifera are common. Bioturbation is common to complete with several generations of burrows. Minor lithology: None. Remarks: N/A



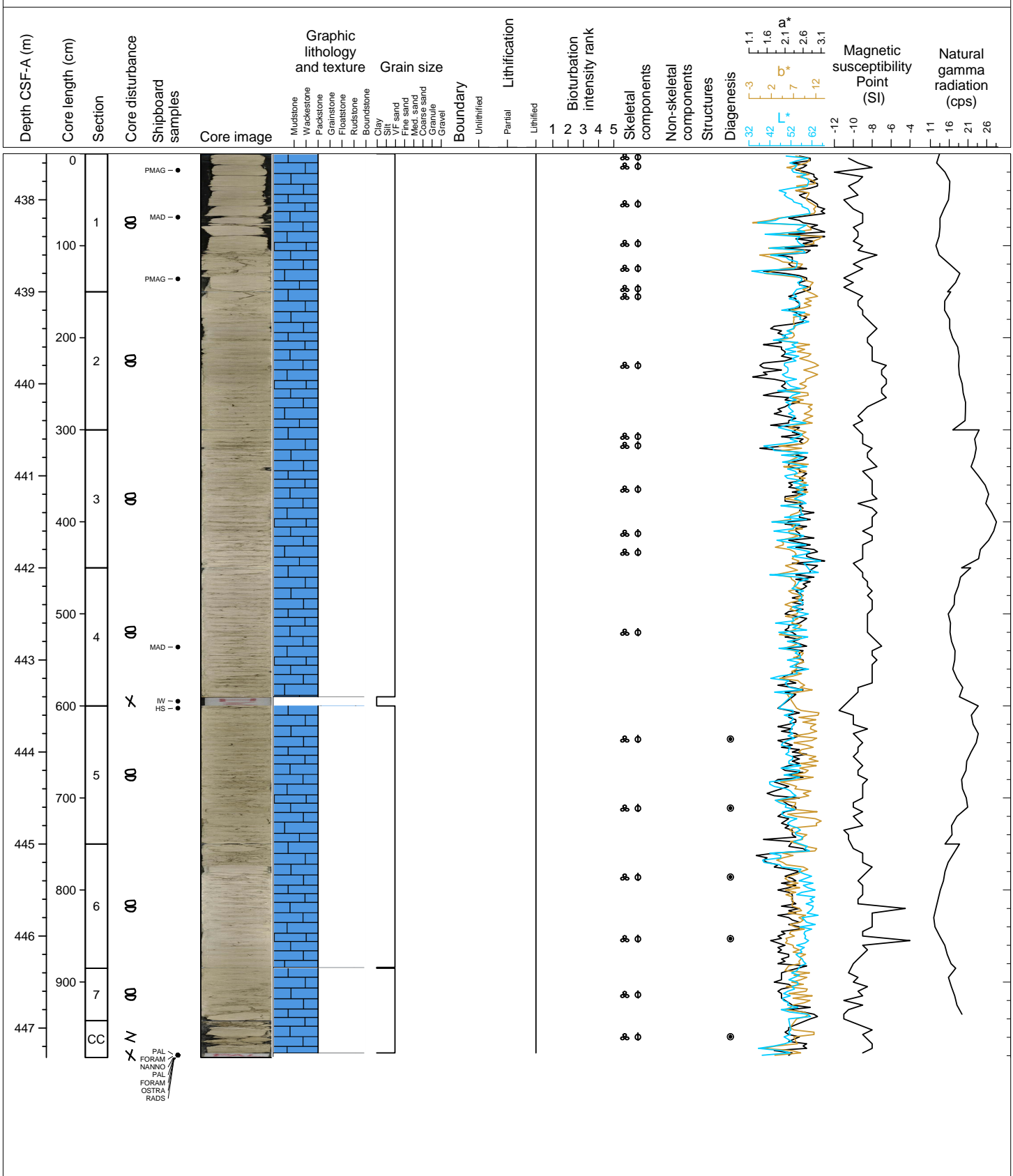
Hole 359-U1468A Core 66X, Interval 427.7-429.0 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich PACKSTONE. Very fine- to fine-grained, well-sorted, light olive gray to pale yellow. Benthic and planktic foraminifera are common. Bioturbation is common to complete with several generations of burrows, where discernable, Planolites, Zoophycos, Chondrites and Palaeophycus were identified. Minor lithology: None. Remarks: N/A



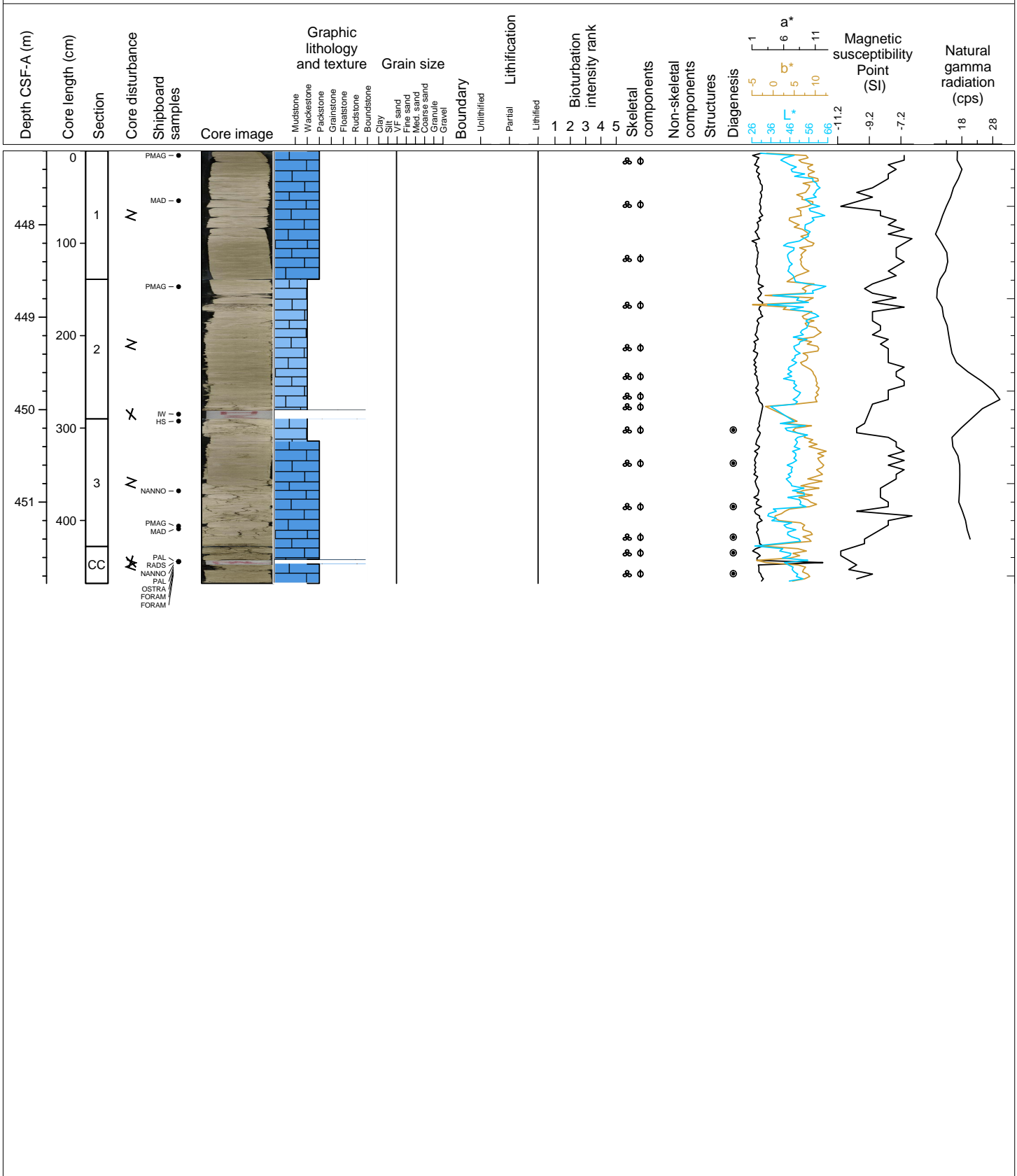
Hole 359-U1468A Core 67X, Interval 437.5-447.32 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich PACKSTONE. Very fine- to fine-grained, well-sorted, light olive gray to white (alternating, dark bands ~10cm, light bands ~100cm, not always clear due to drilling disturbance, gradual transitions). Benthic and planktic foraminifera are common. Bioturbation is common to complete with several generations of burrows, where discernable, Thalassinoides, Planolites and Chondrites were identified. Minor lithology: None. Remarks: First distinct occurrence of dark and white cycles.



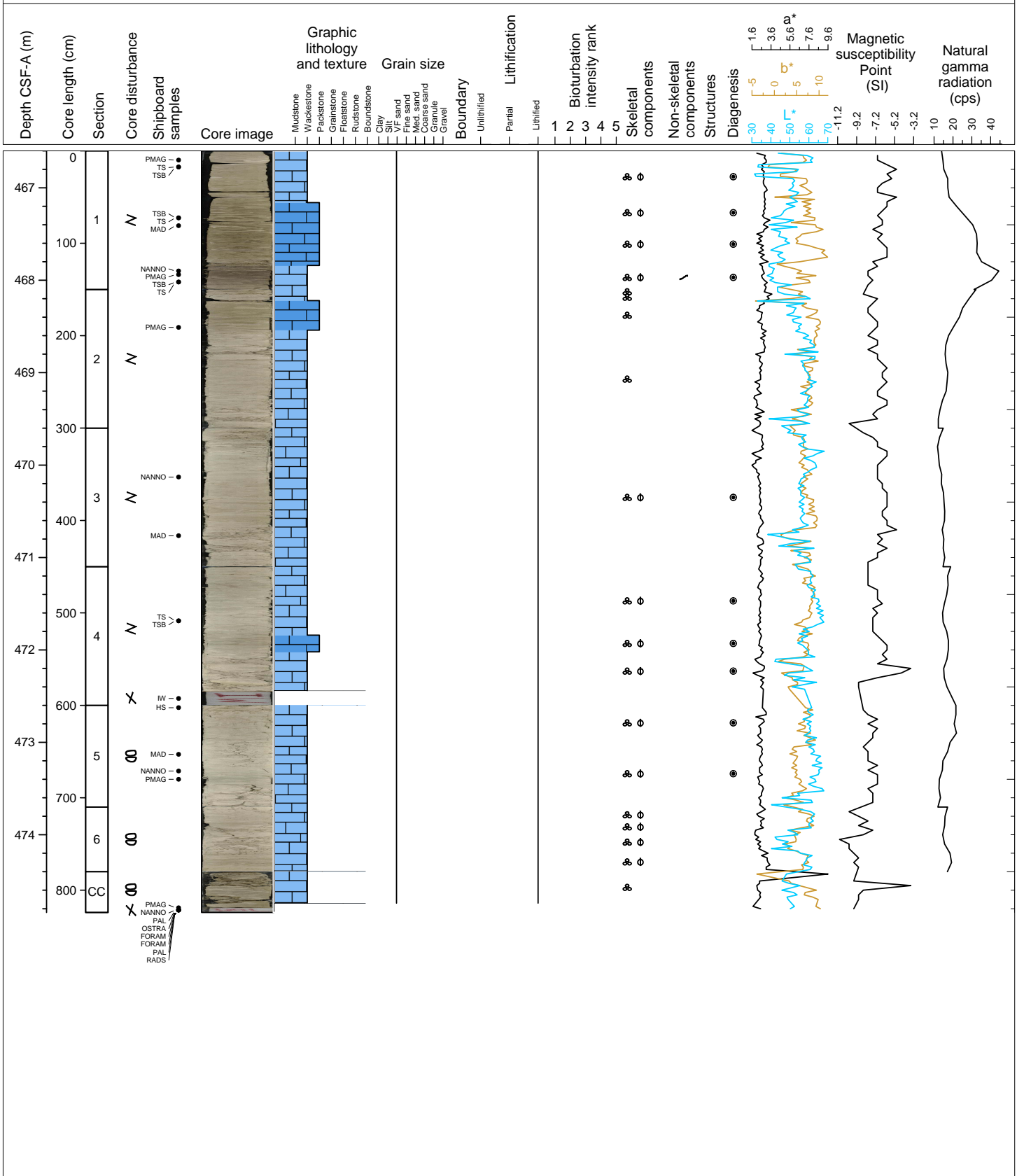
Hole 359-U1468A Core 68X, Interval 447.2-451.88 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich PACKSTONE to WACKESTONE. Very fine-grained, well-sorted, light olive gray to white (alternating, dark bands ~20-100cm, light bands ~50cm, gradual and sharp transitions). Benthic and planktic foraminifera are common. Bioturbation is common to complete with several generations of burrows, where discernable, *Thalassinoides*, *Planolites*, *Palaeophycus*, *Asterosoma* and *Chondrites* were identified. Minor lithology: None. Remarks: N/A



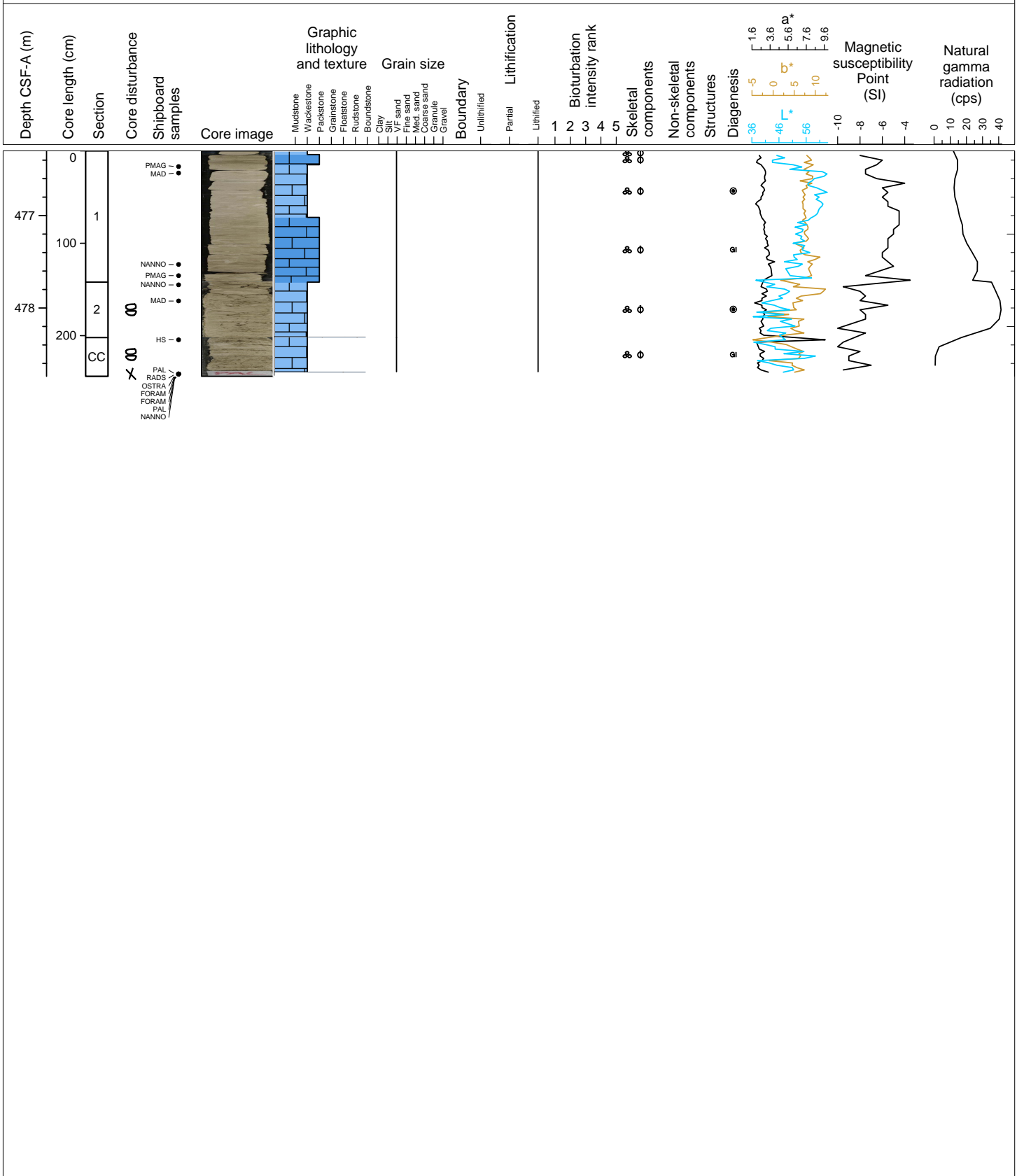
Hole 359-U1468A Core 70X, Interval 466.6-474.84 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich WACKESTONE, slightly dolomitic at times. Very fine-grained, poor-sorted when sorting is discernable. Benthic and planktic foraminifera are common, large benthic foraminifera are present. Olive to white (alternating, dark bands ~20-50cm, light bands ~50-300cm, not always clear due to drilling disturbance, gradual and sharp transitions). Bioturbation is complete with several generations of burrows, where discernable, Thalassinoides, Teichichnus, Planolites, Palaeophycus, Phycosiphon, Asterosoma, Zoophycos and Chondrites were identified. Minor lithology: None described. Remarks: possible organic matter. Three thin sections from 359-U1468A-70X-1, and an additional thin section from 359-U1468A-70X-1; thin sections were sampled for different levels of brightness.



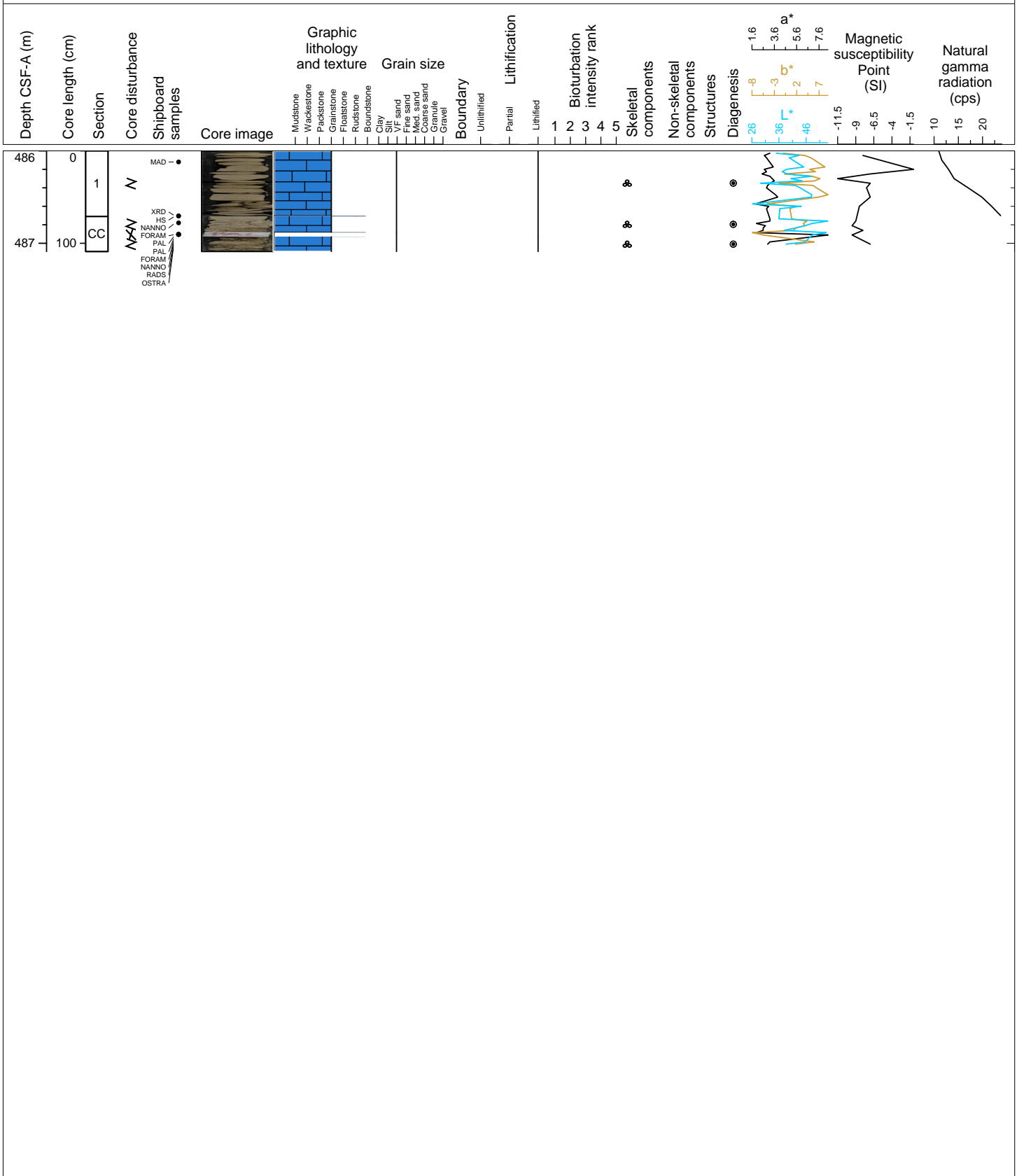
Hole 359-U1468A Core 71X, Interval 476.3-478.74 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich PACKSTONE to WACKESTONE, slightly dolomitic at times. Very fine-grained. Benthic and planktic foraminifera are common to abundant. Pale gray to white with very slight alternation in tone. (alternating, dark bands ~10cm, light bands >100cm, gradual transitions). Bioturbation is complete with several generations of burrows, where discernable, Thalassinoides, Planolites, Palaeophycus, Asterosoma, Zoophycos and Chondrites were identified. Minor lithology: None. Remarks: Glauconite is present.



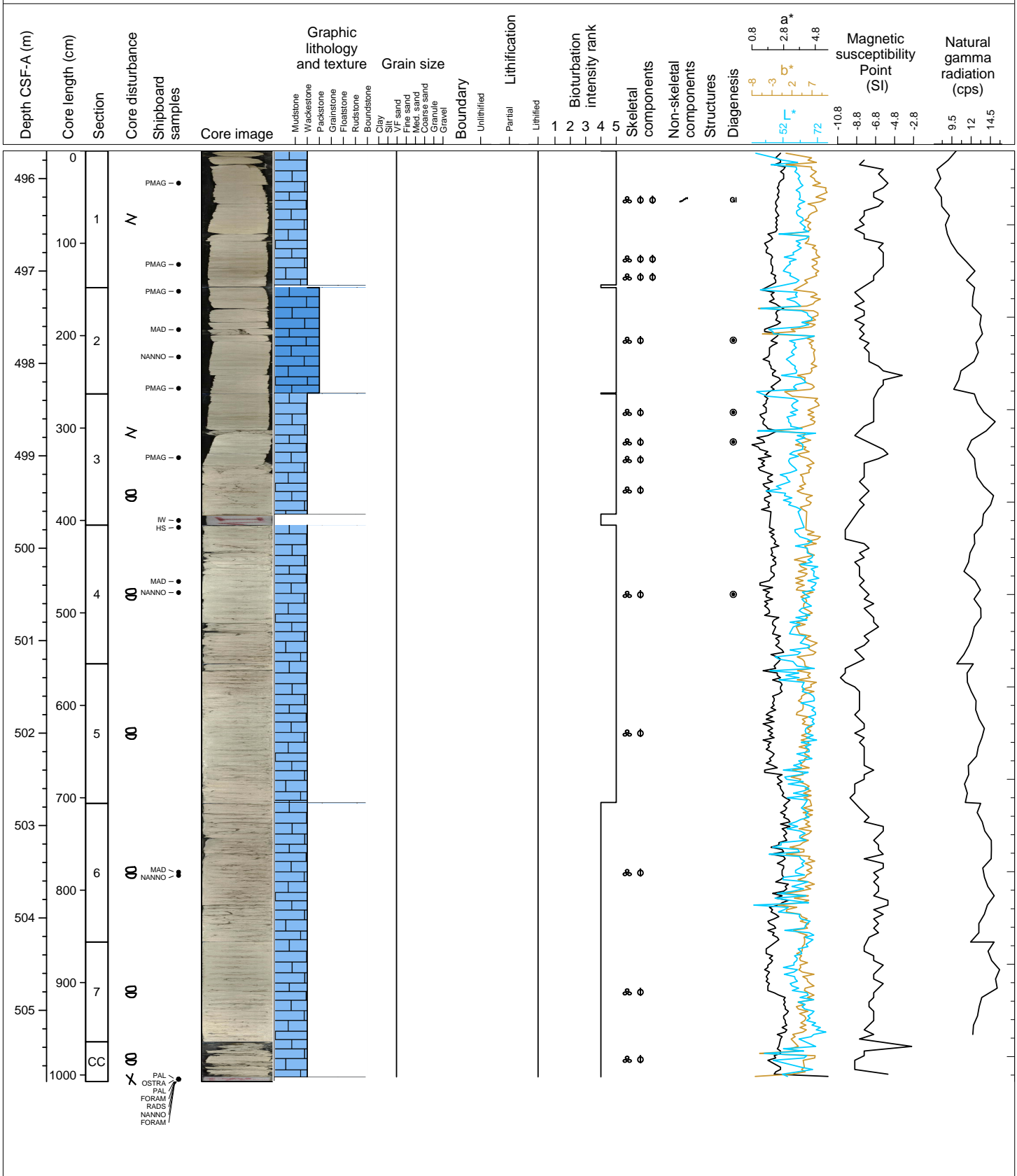
Hole 359-U1468A Core 72X, Interval 486.0-487.09 m (CSF-A)

Major lithology: Lithified dolomitized planktic foraminifera-rich GRAINSTONE to POORLY WASHED GRAINSTONE. Fine-grained. Planktic foraminifera are abundant. Grayish brown to gray. Bioturbation is complete with several generations of burrows, where discernable, Planolites was identified. Minor lithology: None. Remarks: Thin section at 359-U1468A-72X-1, 47-53 cm. A possible turbidite based on dissimilarity of component relative to background.



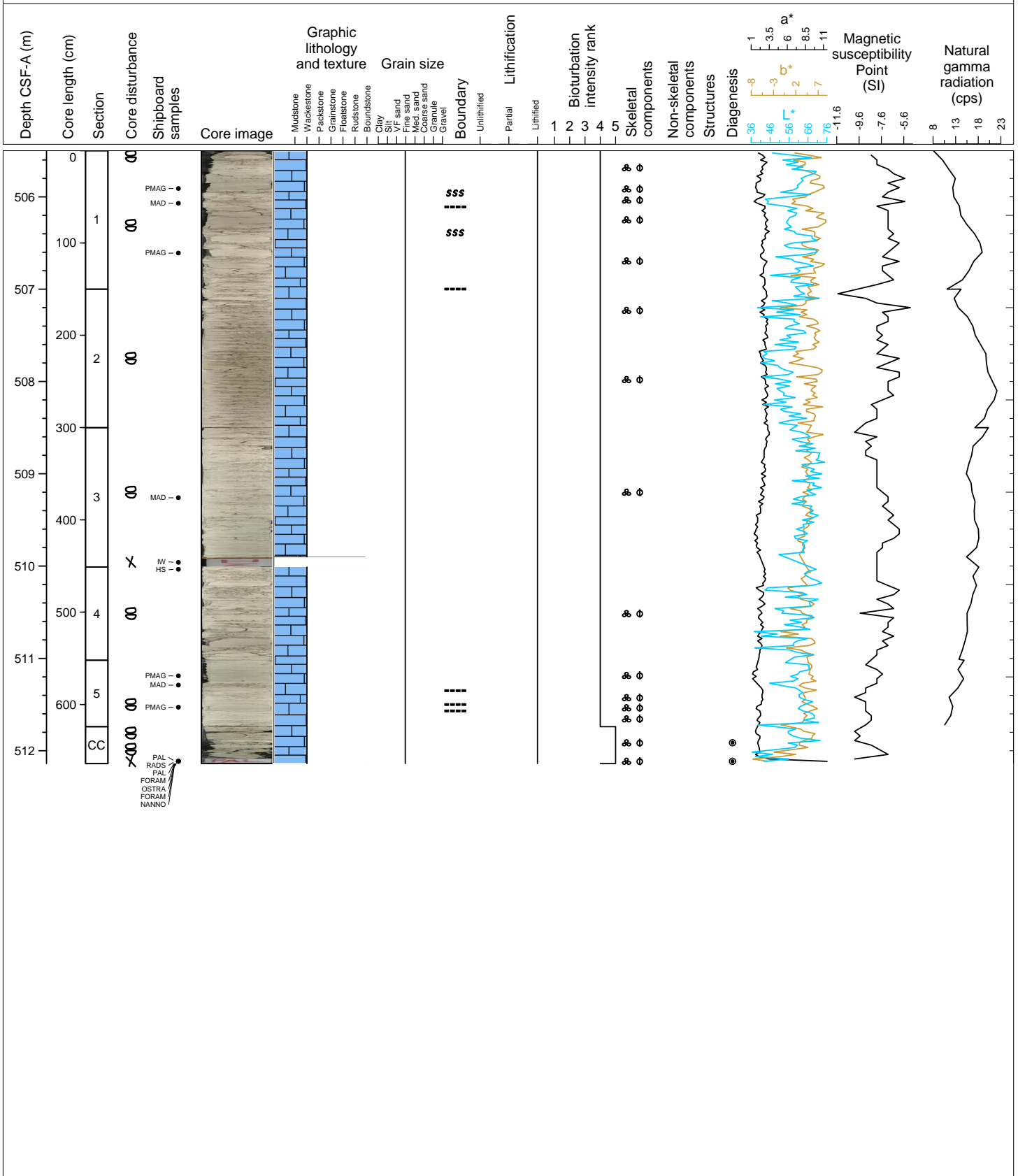
Hole 359-U1468A Core 73X, Interval 495.7-505.77 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich WACKSTONE to PACKSTONE. Very fine-grained. Planktic foraminifera are abundant, benthic foraminifera are rare, large benthic foraminifera are present. Pale yellow to white (N9). Bioturbation is complete with several generations of burrows, where discernable, *Thalassinoides*, *Planolites*, *Palaeophycus*, *Phycosiphon*, *Asterosoma*, *Zoophycos* and *Chondrites* were identified. Minor lithology: None. Remarks: Severe drilling disturbance. Glauconite is present, possible organic matter.



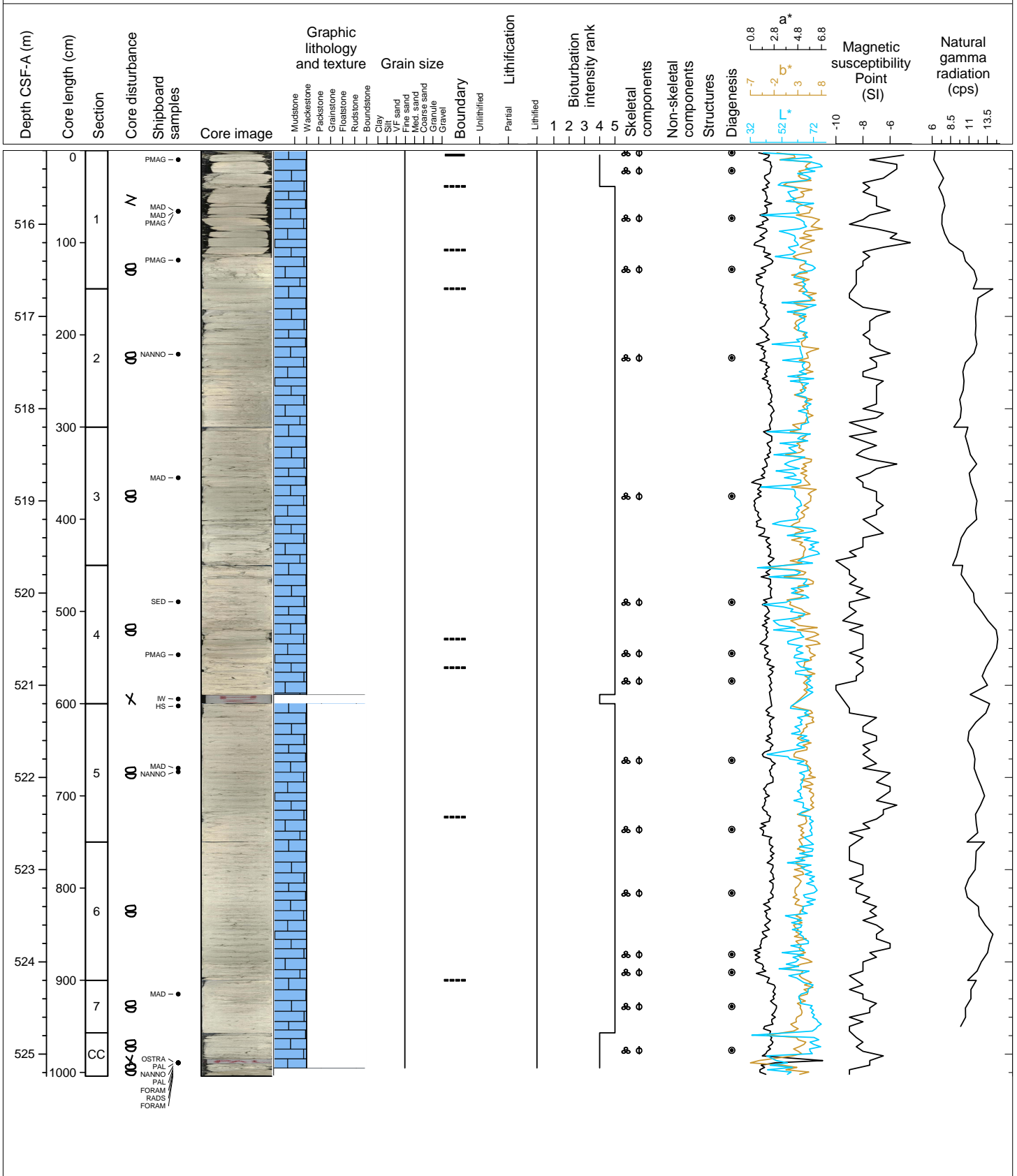
Hole 359-U1468A Core 74X, Interval 505.5-512.14 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich WACKESTONE. Fine-grained, pale yellow to light gray. Planktic foraminifera are abundant and benthic foraminifera common. Bioturbation distinguished by slight mottles and rare glauconite and pyrite infill. Zoophycos, Thalassinoides, Palaeophycus, Phycosiphon, Planolites and Chondrites are common. Minor lithology: PACKSTONE within burrow infill. Remarks: N/A



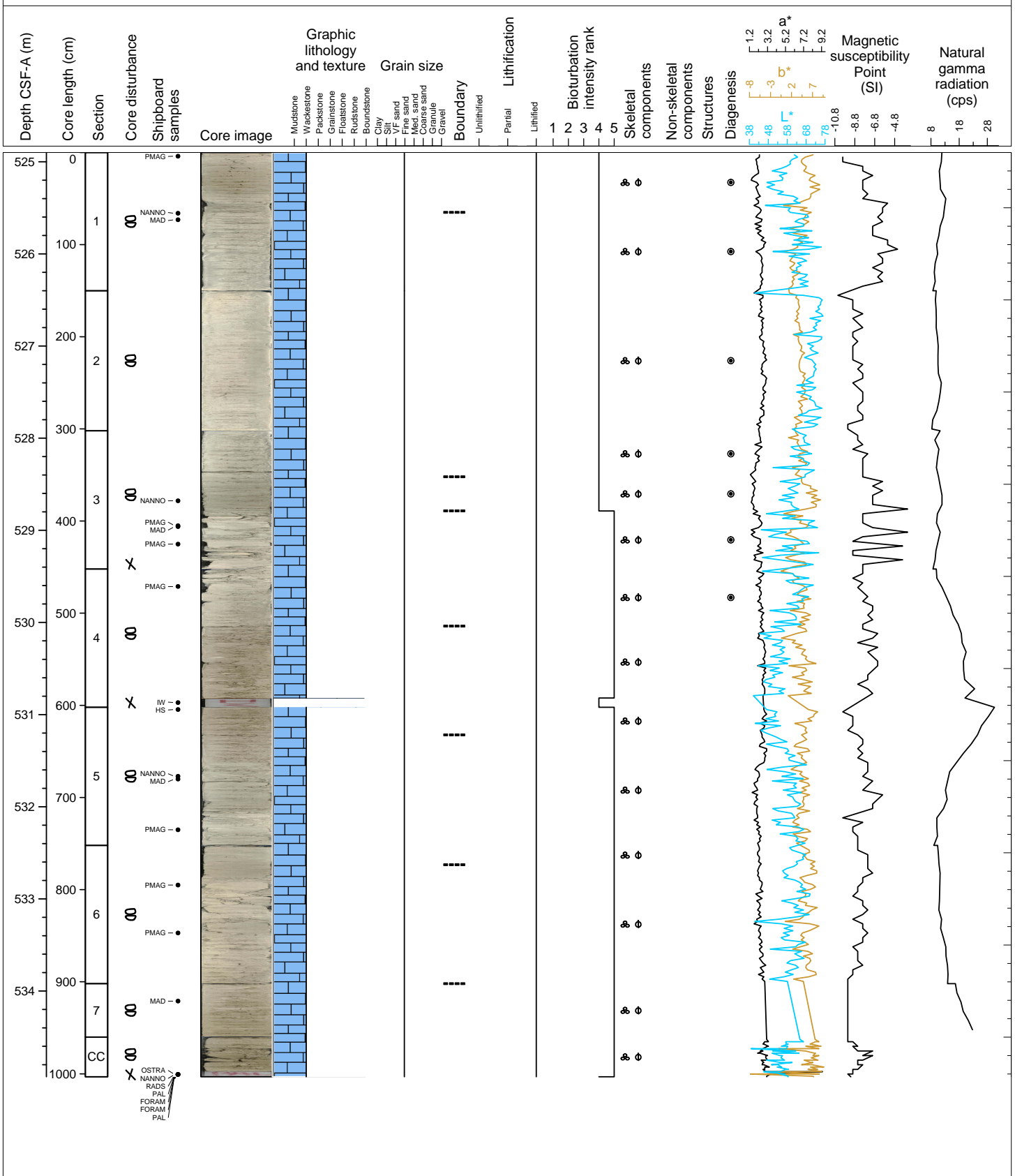
Hole 359-U1468A Core 75X, Interval 515.2-525.24 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich WACKESTONE. Fine-grained, white and pale yellow to light gray. Planktic foraminifera are abundant. Bioturbation is distinguished by slight mottles and infill with organic matter and glauconite. Phycosiphon, Planolites, Thalassinoides and Chondrites are common
 Minor lithology: Burrows commonly with a finer-grained PACKSTONE infill. Remarks: Moldic porosity. Two pyritized bivalves up to 2 mm are very rare.



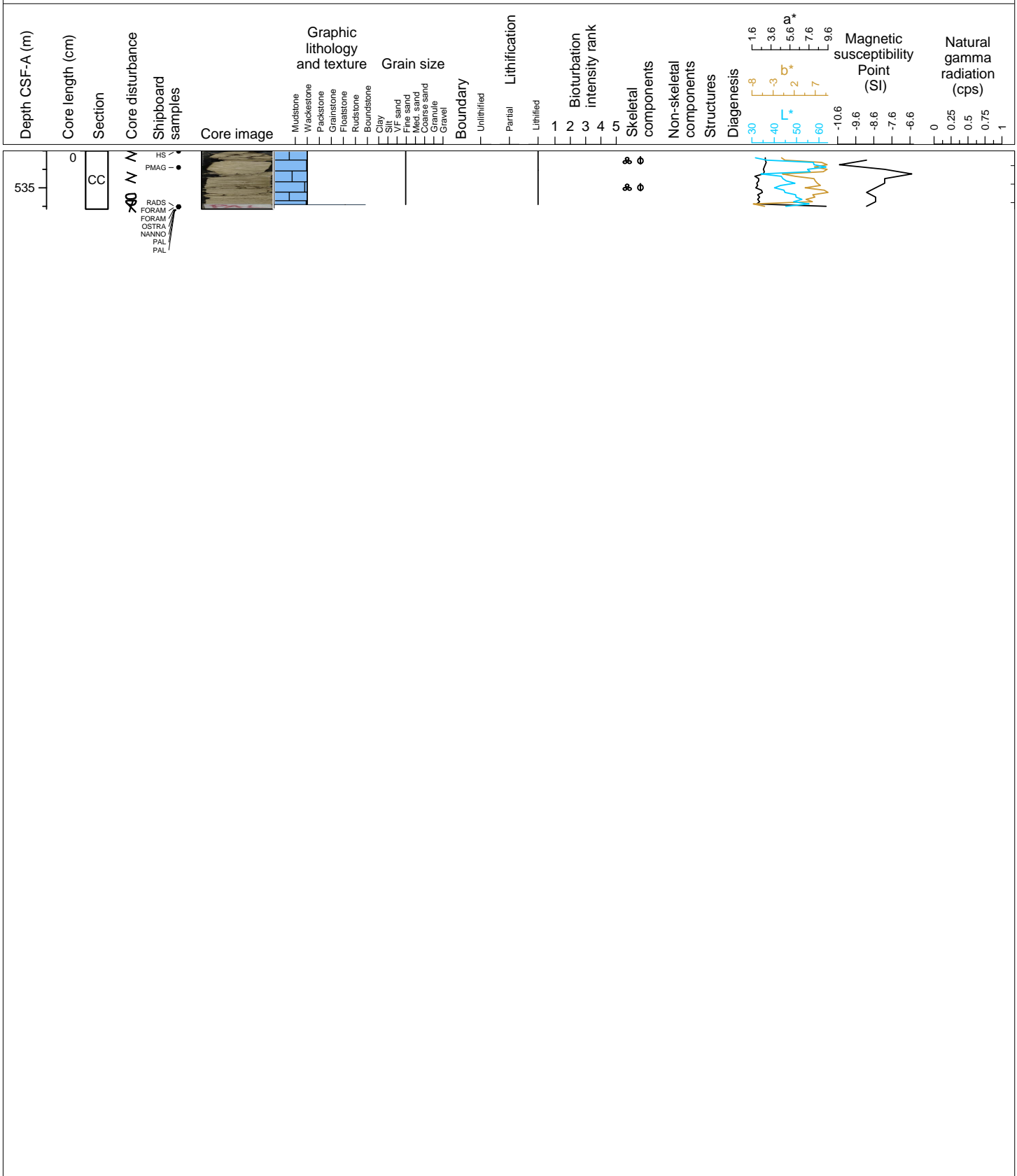
Hole 359-U1468A Core 76X, Interval 524.9-534.93 m (CSF-A)

Major: Lithified planktic foraminifera-rich WACKESTONE. Fine-grained, white and pale yellow to light gray. Planktic foraminifera are abundant. Bioturbation is common to complete with multiple generations of burrows locally abundant. Phycosiphon, Planolites, Thalassinoides and Chondrites. Organic matter locally common to abundant and also occurs in burrow infill. Pyrite and glauconite are also common in burrow infill. Minor: Fine-grained PACKSTONE is present in some burrows. Remarks: In parts this core is heavily disturbed.



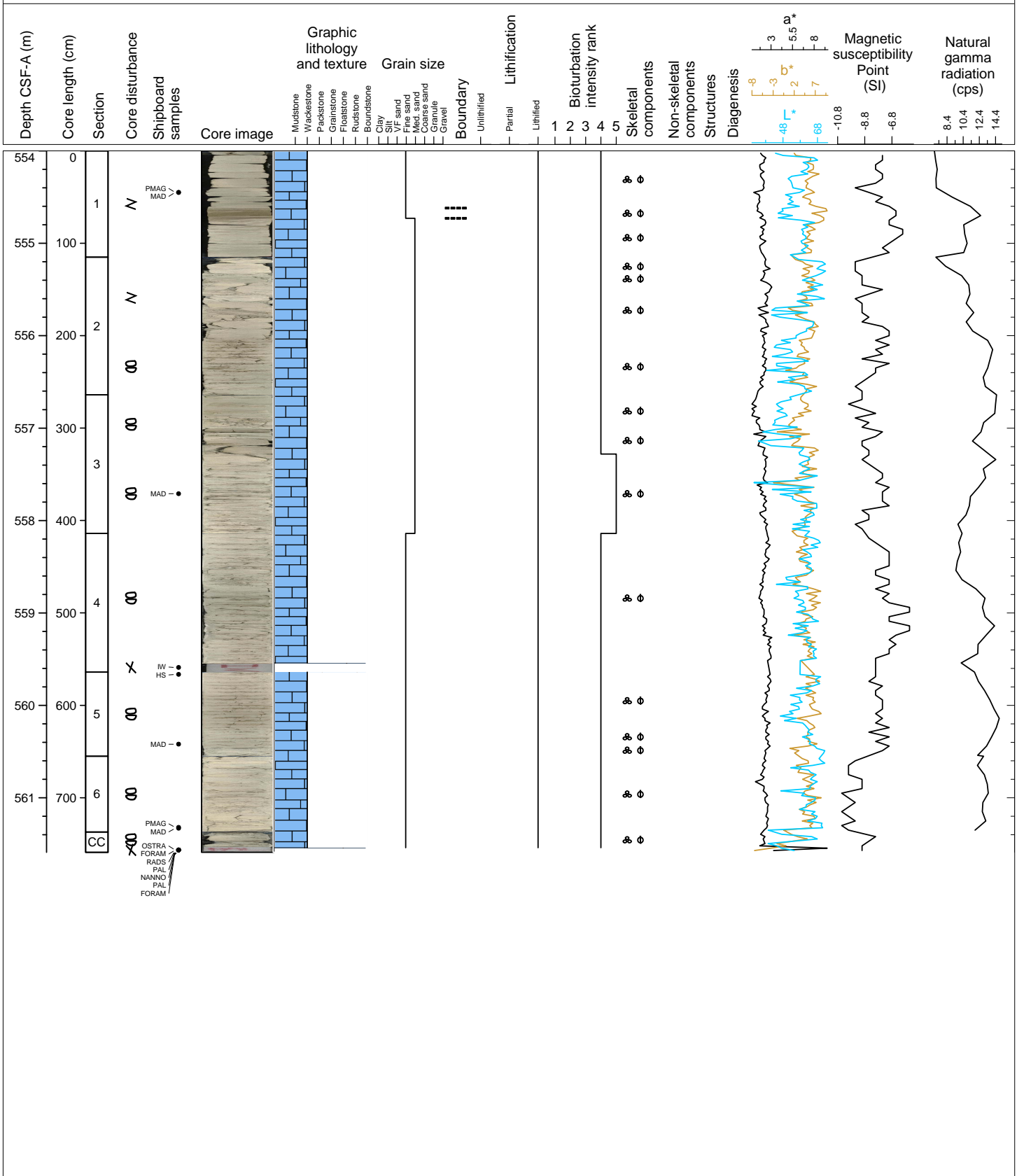
Hole 359-U1468A Core 77X, Interval 534.6-535.23 m (CSF-A)

Major: Lithified planktic foraminifera-rich WACKESTONE. Fine-grained, grayish brown to light gray. Planktic foraminifera (A). Multiple generation of burrows. Thalassinoides, Chondrites, Phycosiphon, and Planolites common. Possible increase in dolomite (less reaction with HCl; Limestone to dolomite).



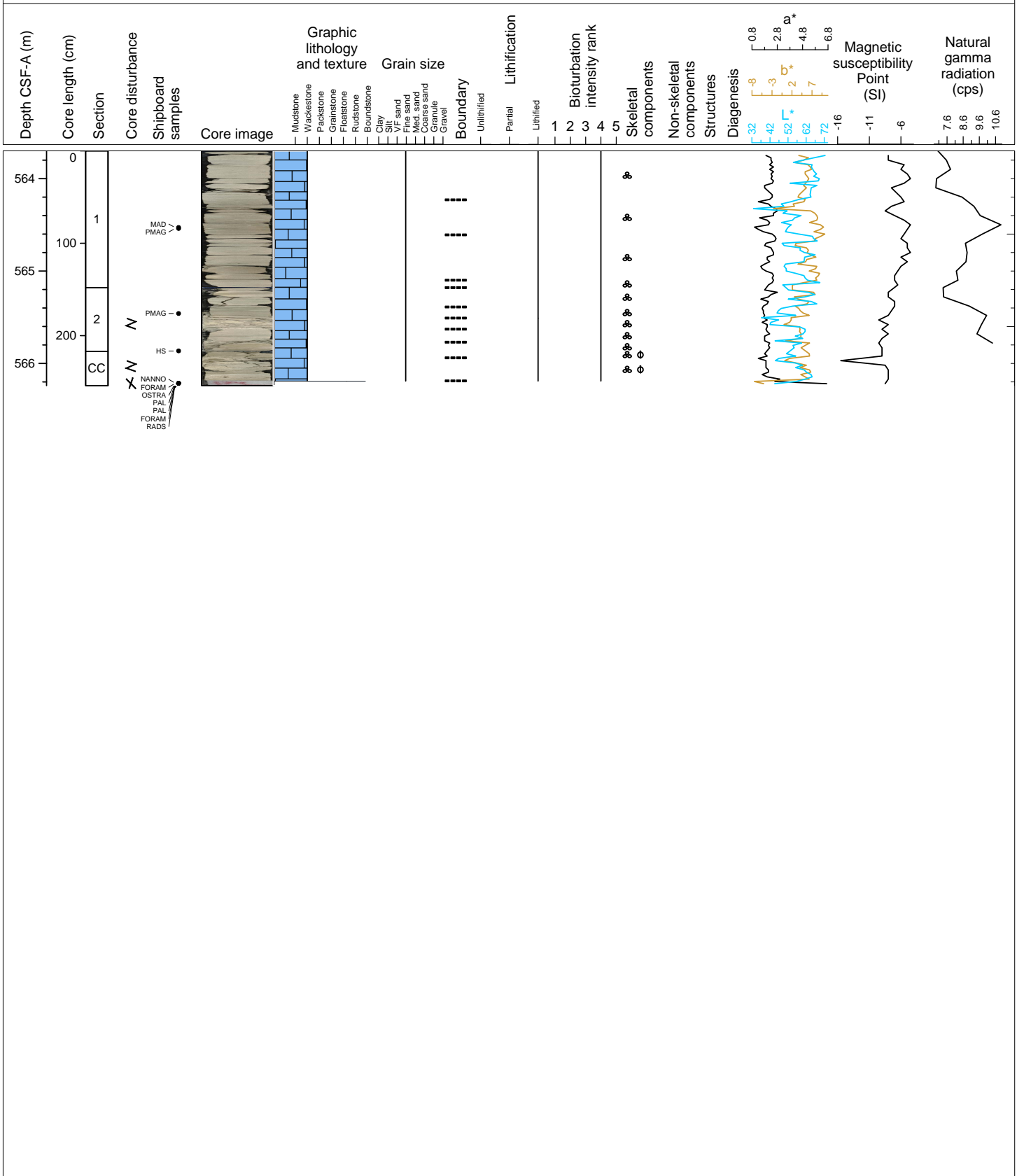
Hole 359-U1468A Core 79X, Interval 554.0-561.59 m (CSF-A)

Major: Lithified planktic foraminifera-rich WACKESTONE to PACKSTONE (79X-1, 00 -79X-3, 150 cm) and WACKESTONE 79X-4, 00 cm to 79X, CC). Fine- to medium grained, white to light gray. Planktic foraminifera abundant and benthic foraminifera common. Thalassinoides, Chondrites and Phycosiphon common. Pyrite present in some burrows. Contacts are gradational and represented by color change. Minor: None. Remarks: N/A



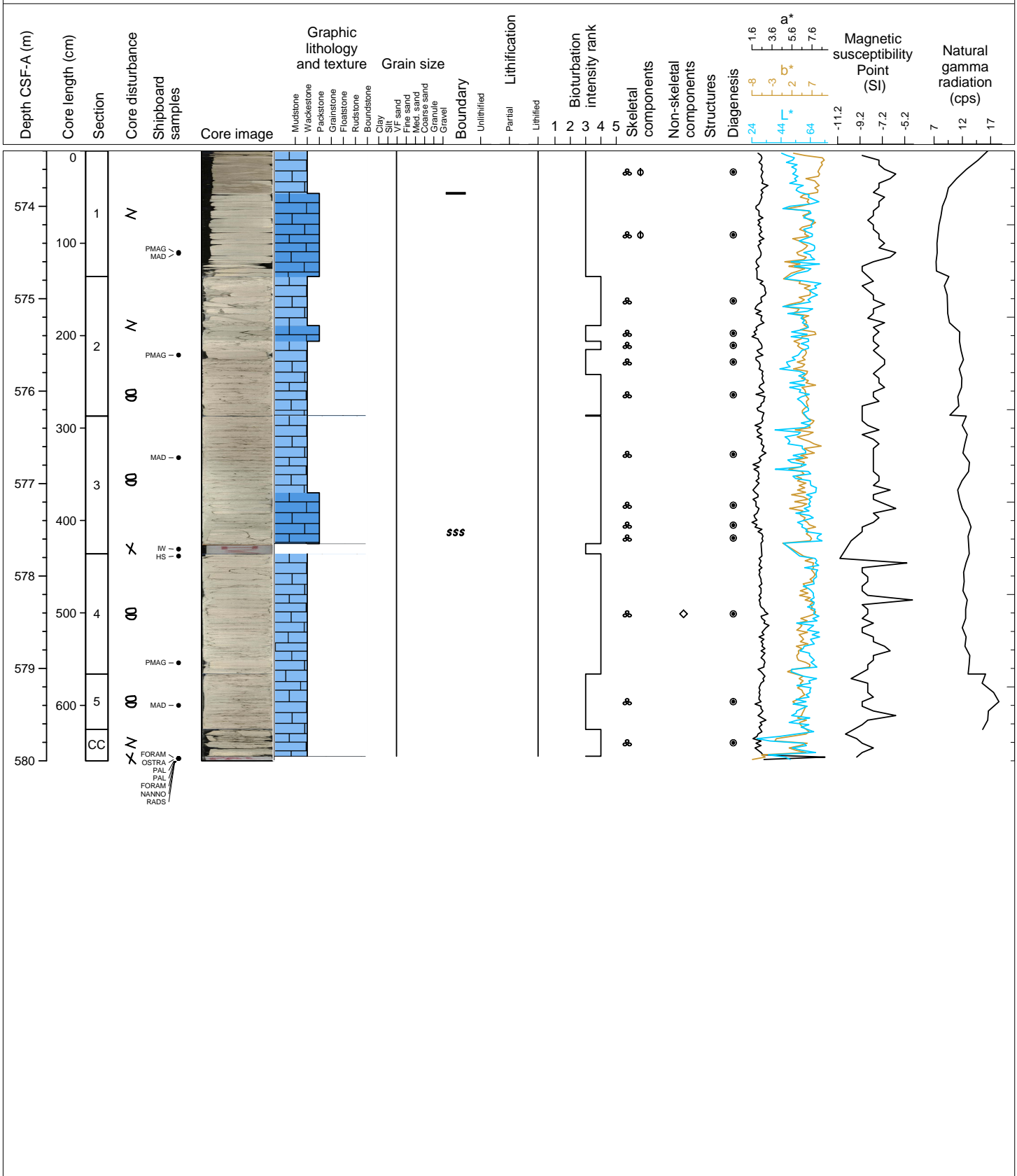
Hole 359-U1468A Core 80X, Interval 563.7-566.24 m (CSF-A)

Major: lithified planktic foraminifera-rich WACKESTONE to PACKSTONE. Fine- to medium-grained, pale yellow to gray. Planktic foraminifera abundant. Bioturbation is common to complete with Thalassinoides, Chondrites, Phycosiphon, and Planolites common. Pyrite and glauconite present in burrow infill. Contacts are gradational and represented by color change.



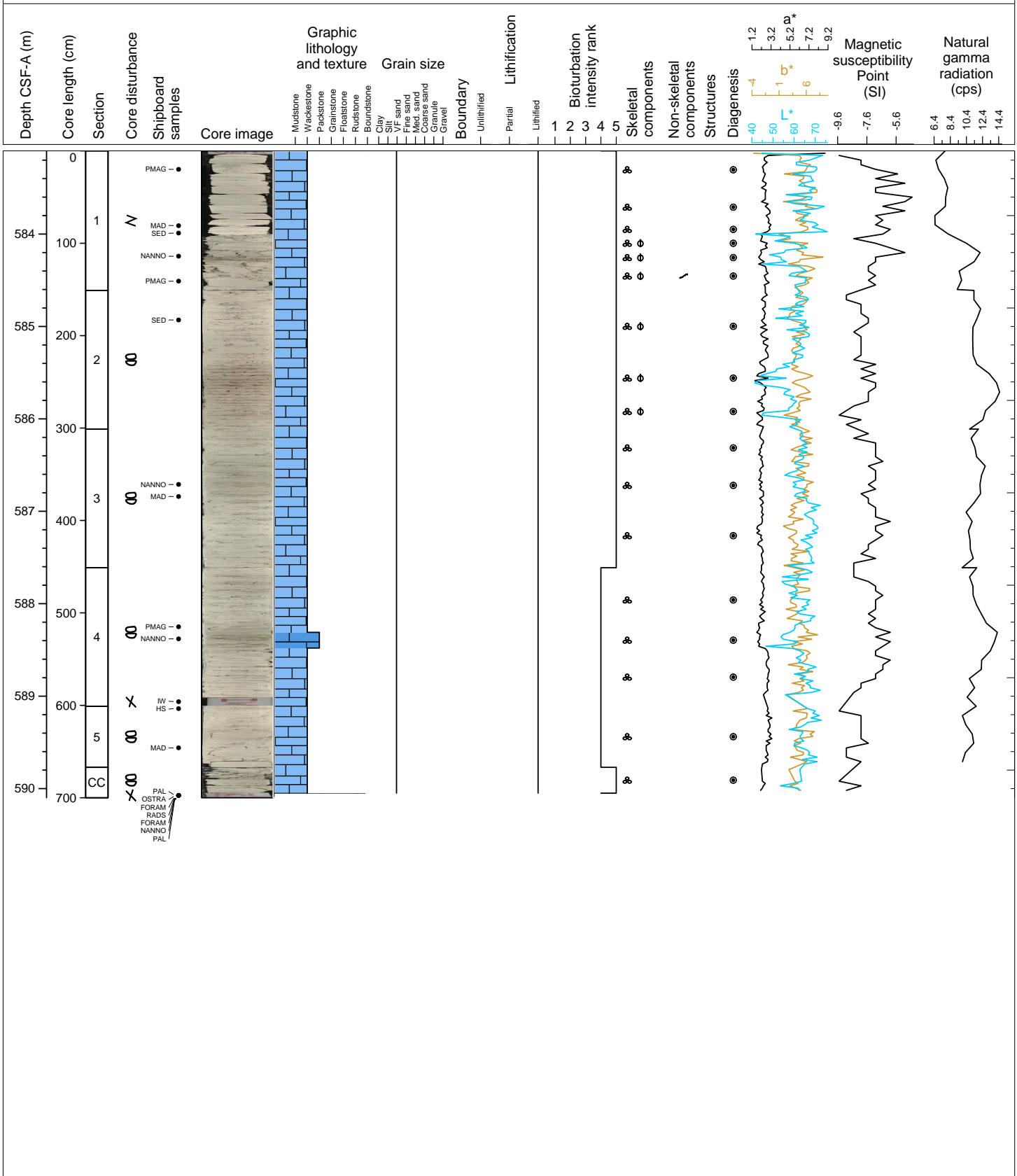
Hole 359-U1468A Core 81X, Interval 573.4-580.0 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich WACKESTONE to PACKSTONE. Very fine-grained. Planktic foraminifera abundant. Light brownish gray to white. Bioturbation is moderate to common with Thalassinoides, Chondrites, and Planolites common. Contacts are sharp and gradational, represented by color change, change from dark to bright are sharper than between brighter tones. Minor lithology: None. Remarks: N/A



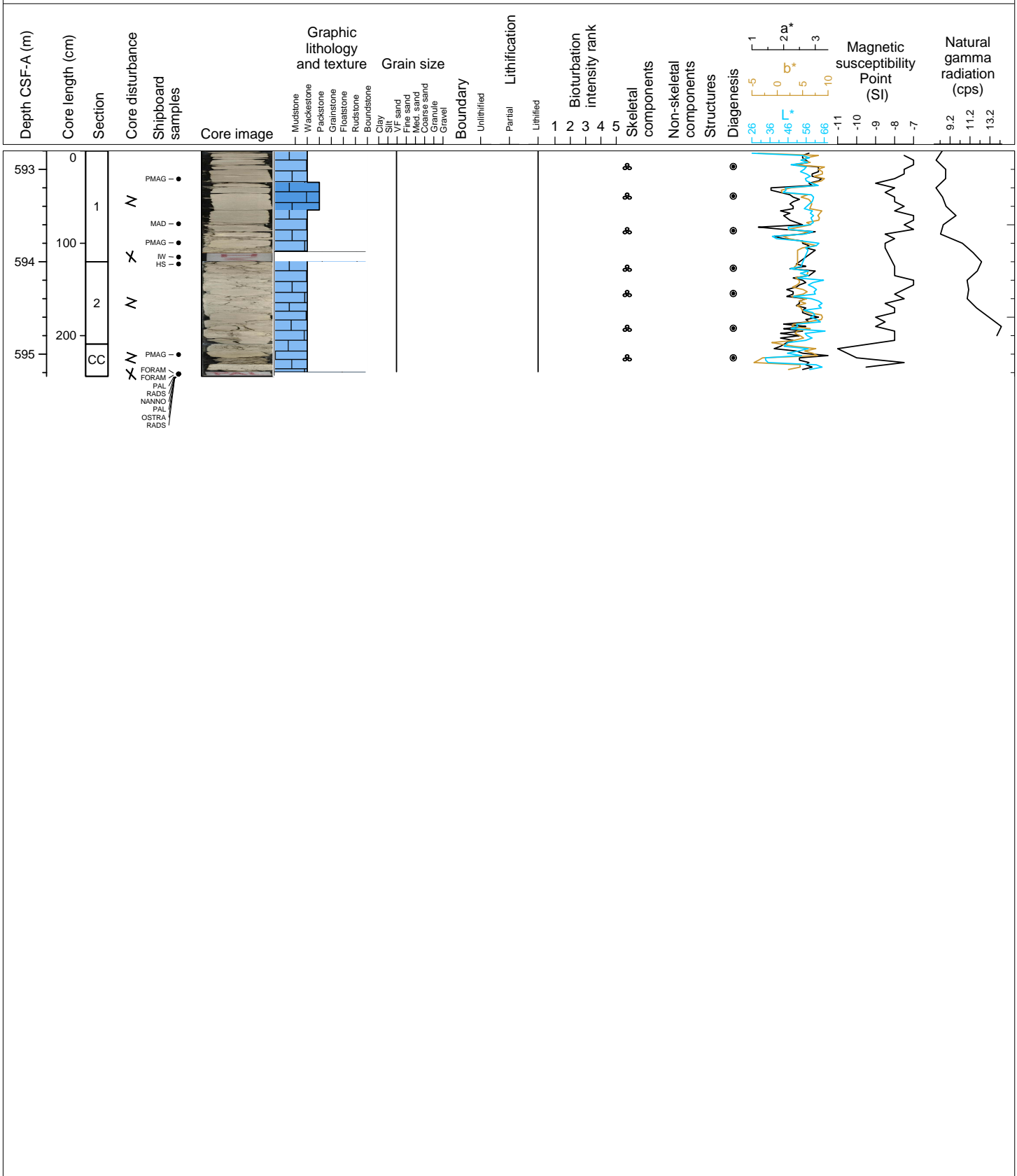
Hole 359-U1468A Core 82X, Interval 583.1-590.1 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich WACKESTONE to PACKSTONE. Very fine-grained. Planktic foraminifera abundant, few benthic foraminifera (mainly in the upper portion of the core). Light gray to white. Bioturbation is moderate to common with Thalassinoides, Chondrites, Phycosiphon and Planolites common. Contacts are sharp and gradational, represented by color change. Minor lithology: None. Remarks: Smear slide at 359-U1468A-82X-1, 89 cm (calcareous nannofossils, aragonite needles, planktic and benthic foraminifera). Packstones are darker then wackestones, possible effect related to grains over matrix.



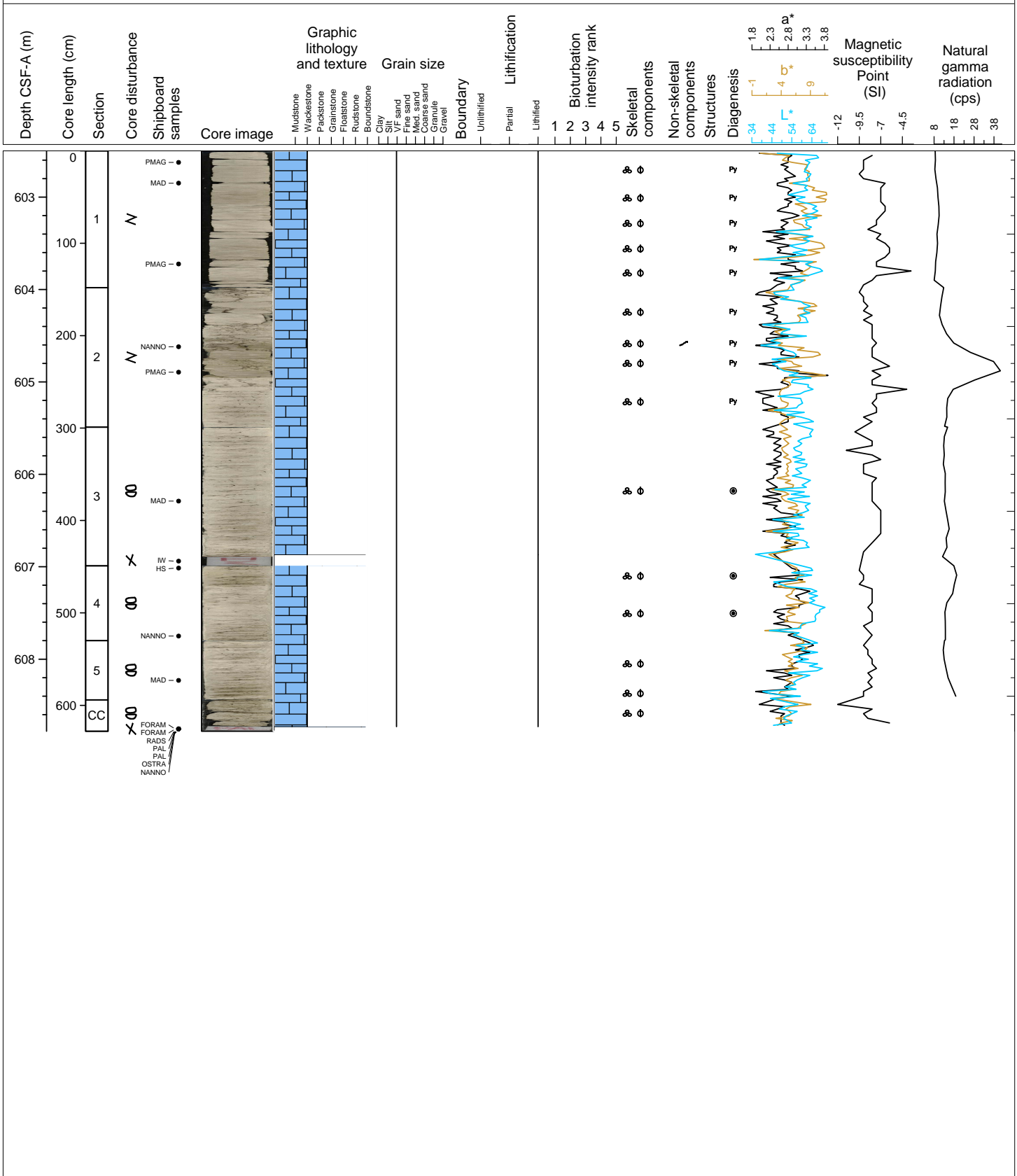
Hole 359-U1468A Core 83X, Interval 592.8-595.24 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich WACKESTONE to PACKSTONE. Very fine-grained. Planktic foraminifera abundant. Pale yellow to white. Bioturbation is complete with Thalassinoides, Chondrites, Zoophycos and Planolites common. Contacts are gradational, represented by color change. Minor lithology: None. Remarks: N/A



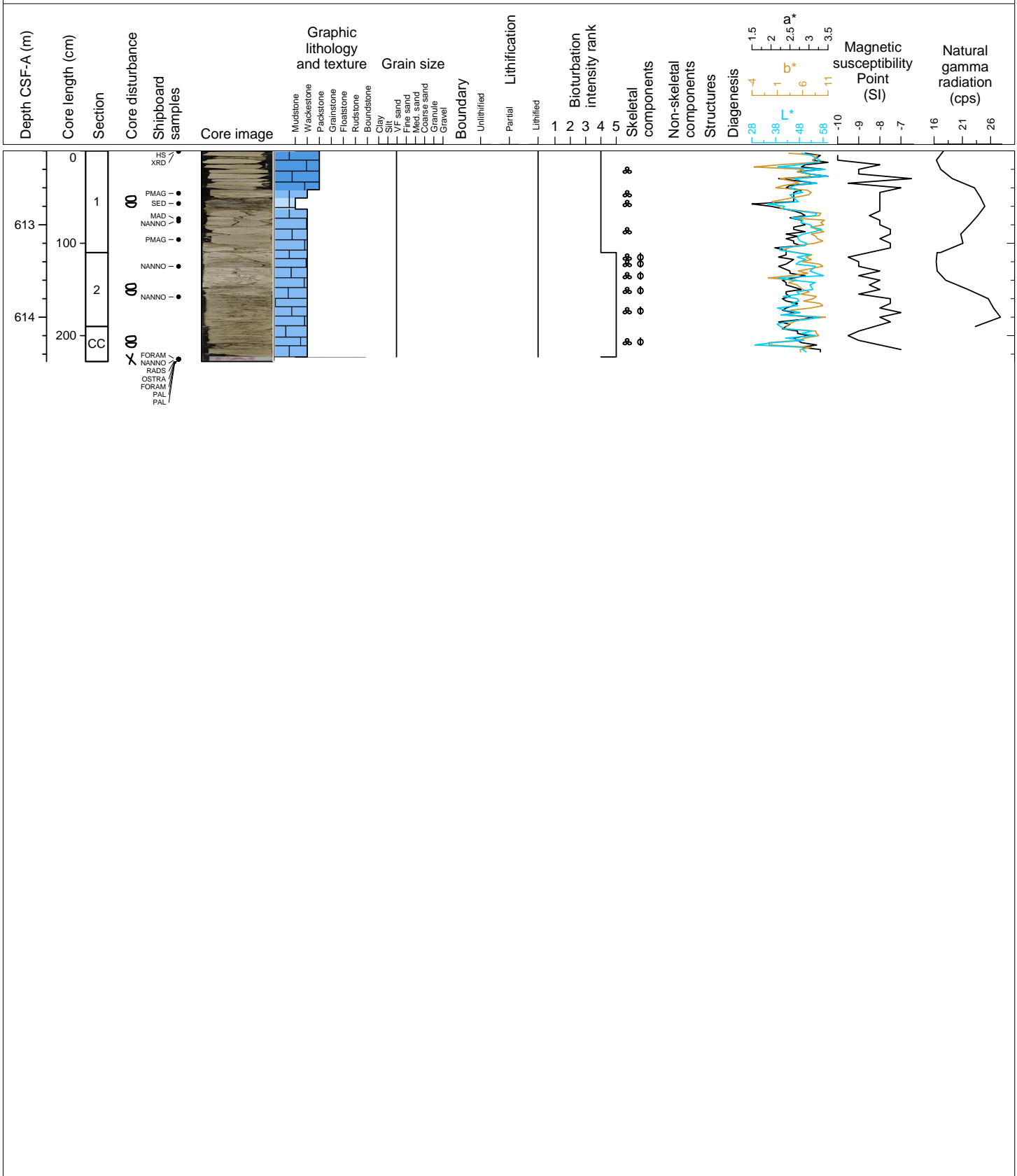
Hole 359-U1468A Core 84X, Interval 602.5-608.78 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich WACKESTONE. Very fine-grained. Planktic foraminifera abundant, few benthic foraminifera. Light gray to white (alternating, dark intervals are 20-43 cm, identified mainly in the upper portion of the core, bright intervals are 35 to >100cm). Bioturbation is complete with *Thalassinoides*, *Chondrites*, *Phycosiphon*, *Zoophycos* and *Planolites* common. Contacts are gradational, represented by color change. Pyrite is present. Minor lithology: None. Remarks: N/A



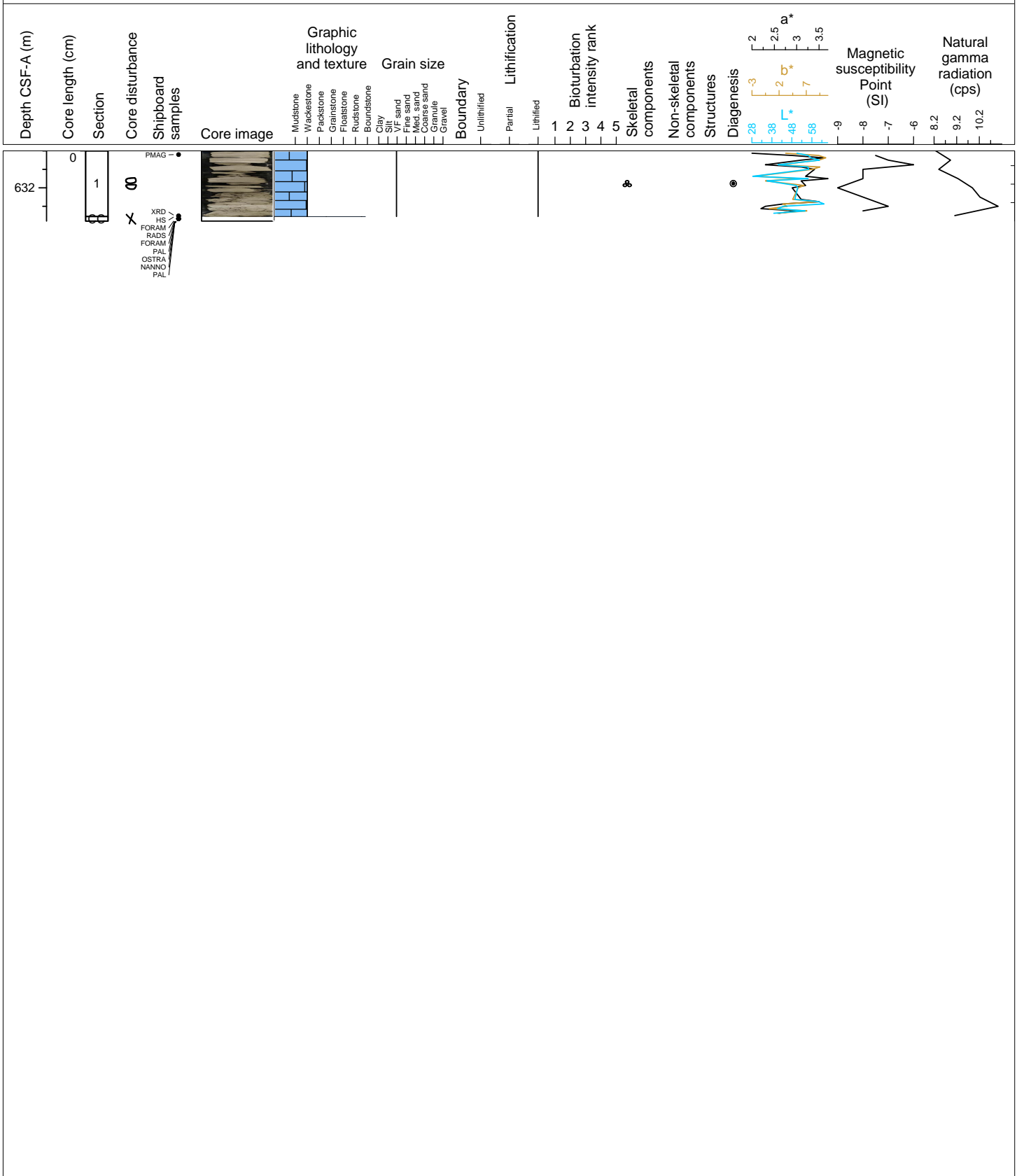
Hole 359-U1468A Core 85X, Interval 612.2-614.48 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich WACKESTONE to PACKSTONE. Very fine-grained. Planktic foraminifera abundant, few benthic foraminifera. Pale yellow to white. Bioturbation is complete with *Thalassinoides*, *Chondrites*, *Palaeophycus* and *Planolites*. Contacts are gradational, represented by color change. Minor lithology (section 1, 51-65 cm): Organic rich MUDSTONE to WAKESTONE. Very fine-grained. Planktic foraminifera and bioclastic grains. Dark grayish brown. Remarks: Smear slide at 359-U1468A-85X-1, 57cm (calcareous nannofossils, benthic foraminifera, planktonic foraminifera, needles).



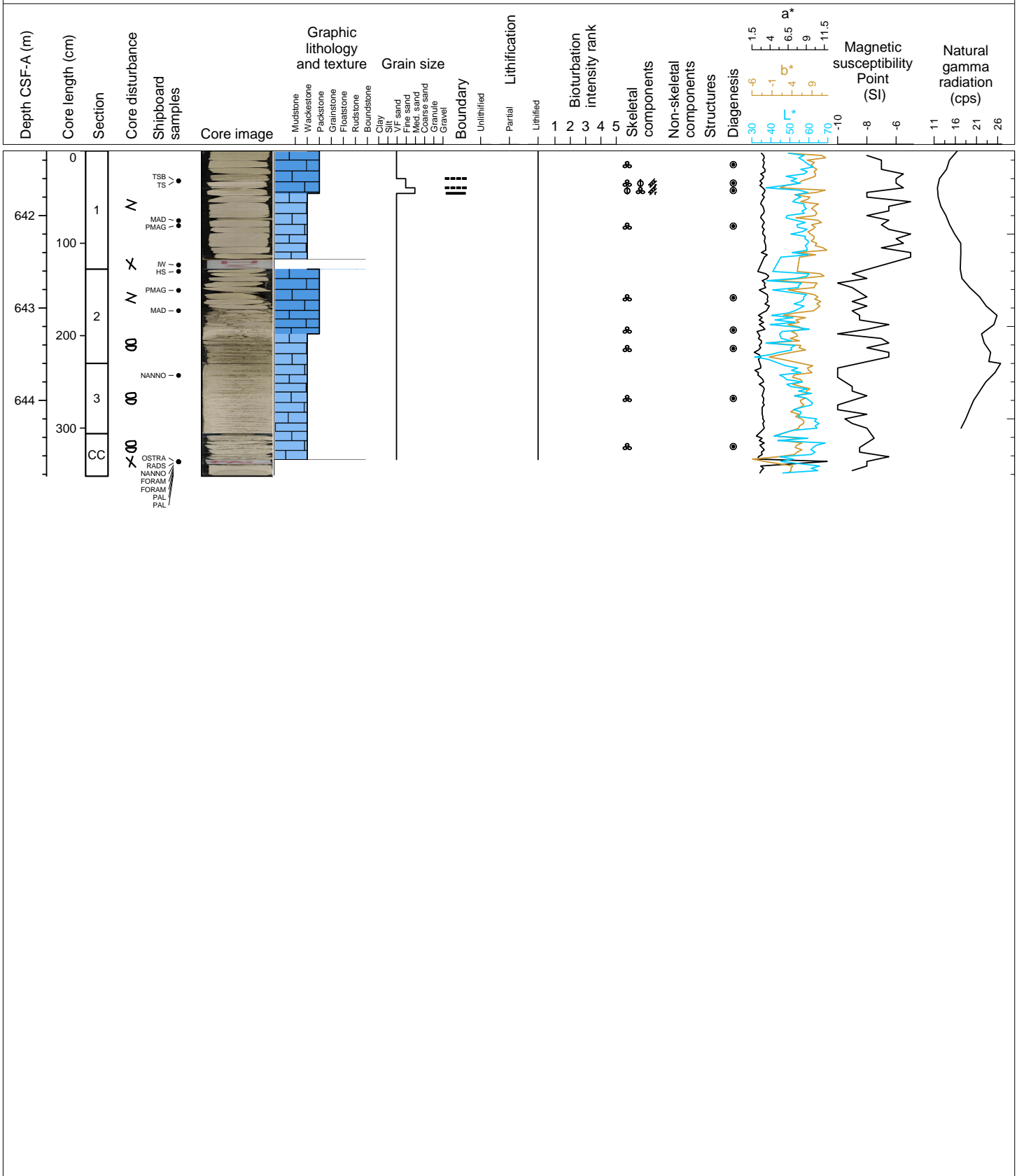
Hole 359-U1468A Core 87X, Interval 631.6-632.36 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich WACKESTONE. Very fine-grained. Planktic foraminifera abundant. Light gray. Bioturbation is complete with Planolites, Phycosiphon and Zoophycos. Minor lithology: None. Remarks: single section, highly deformed by drilling disturbances.



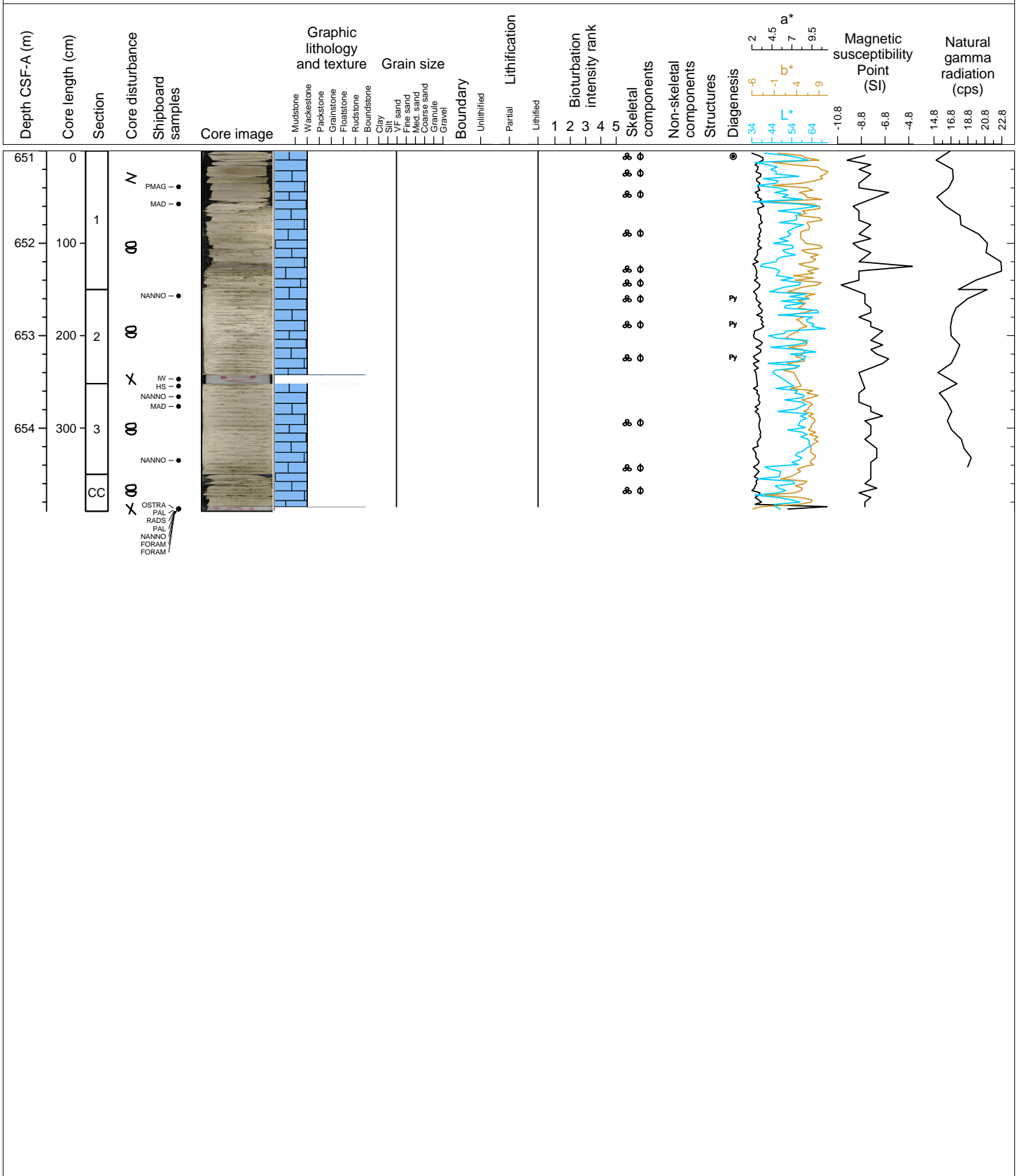
Hole 359-U1468A Core 88X, Interval 641.3-644.82 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich WACKESTONE. Very fine-grained. Planktic foraminifera abundant. Light gray. Bioturbation is complete with Planolites. Minor lithology: Lithified planktic foraminifera-rich PACKSTONE to FLOATSTONE. Convolute bedding and flow structures, Bingham plastic flow. Very fine- to granule-grained. Poorly sorted. Planktic foraminifera are abundant, common large benthic foraminifera (Rotalia, Heterostegina), red algae and suspected bryozoan. Light gray to white. Bioturbation is unclear. Thalassinoides at base. Remarks: Thin section at 359-U1468A-88X-1, 26-30 cm. Suspected mass transport deposit (minor lithology) in section 1, 00-40 cm, based on contacts compositions and internal structure.



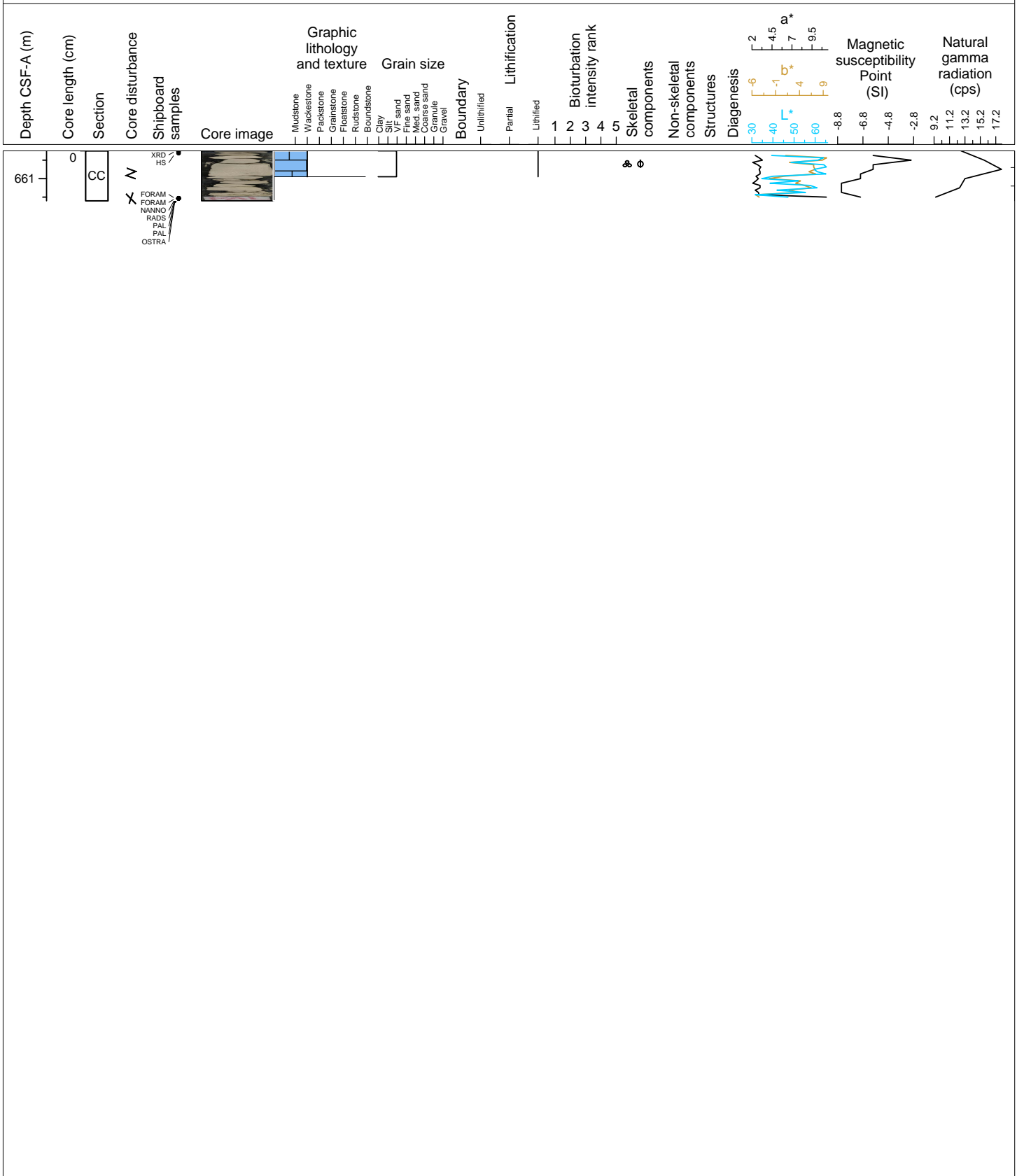
Hole 359-U1468A Core 89X, Interval 651.0-654.9 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich WACKESTONE. Very fine-grained. Planktic foraminifera abundant, few benthic foraminifera. Light gray to white. Bioturbation is complete with *Thalassinoides*, *Chondrites*, *Asterosoma*, *Phycosiphon*, *Zoophycos* and *Planolites* common. Minor lithology: None. Remarks: Highly deformed by drilling disturbances.



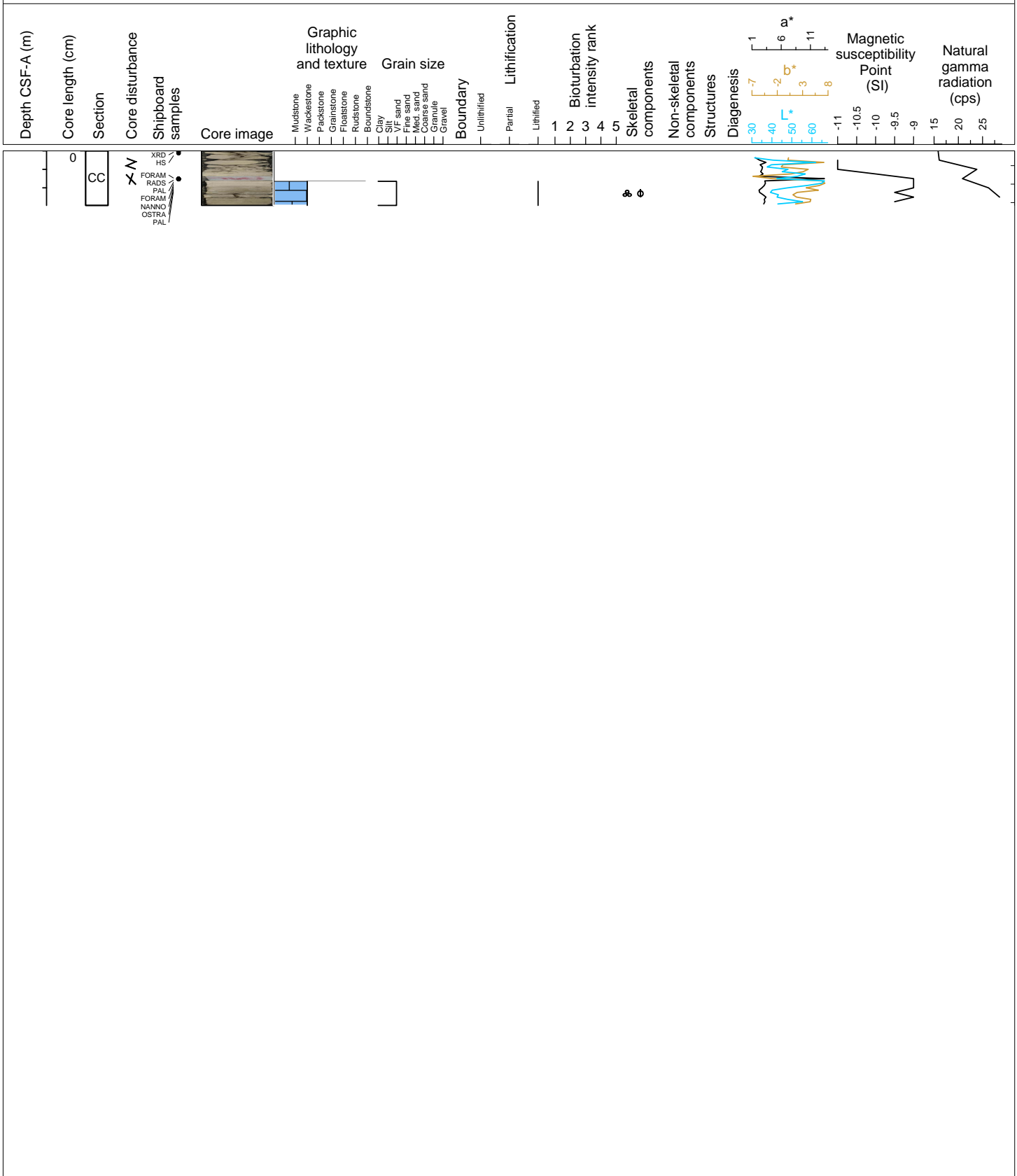
Hole 359-U1468A Core 90X, Interval 660.7-661.24 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich WACKESTONE. Very fine-grained. Planktic foraminifera abundant, few benthic foraminifera. Pale yellow. Bioturbation is complete with Planolites. Minor lithology: None. Remarks: Only CC.



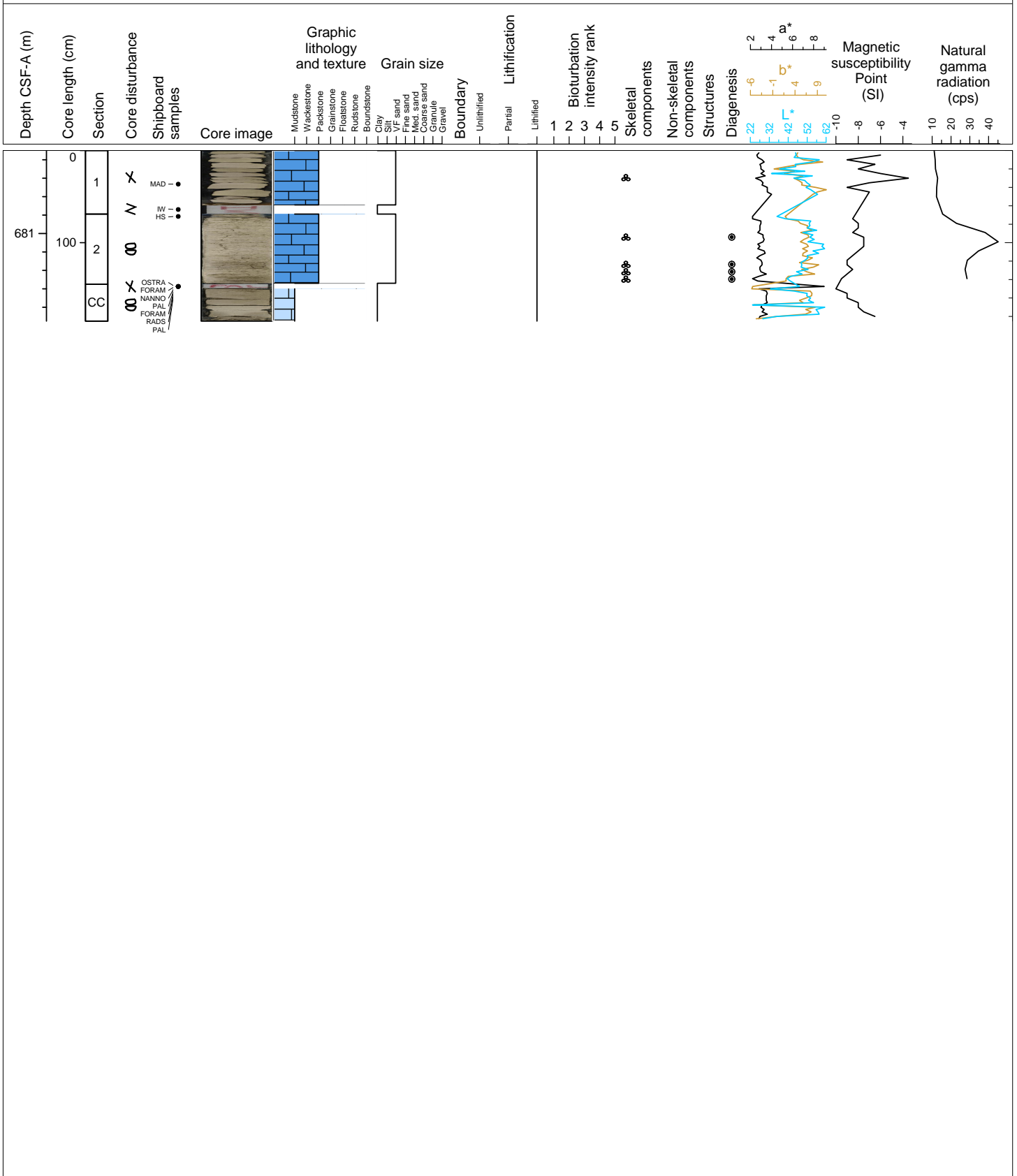
Hole 359-U1468A Core 91X, Interval 670.4-670.99 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich WACKESTONE. Very fine-grained. Planktic foraminifera abundant, few benthic foraminifera. White. Bioturbation is complete. Minor lithology: Drill cake. Remarks: Only CC, from 22 cm, completely destroyed by drilling disturbance.



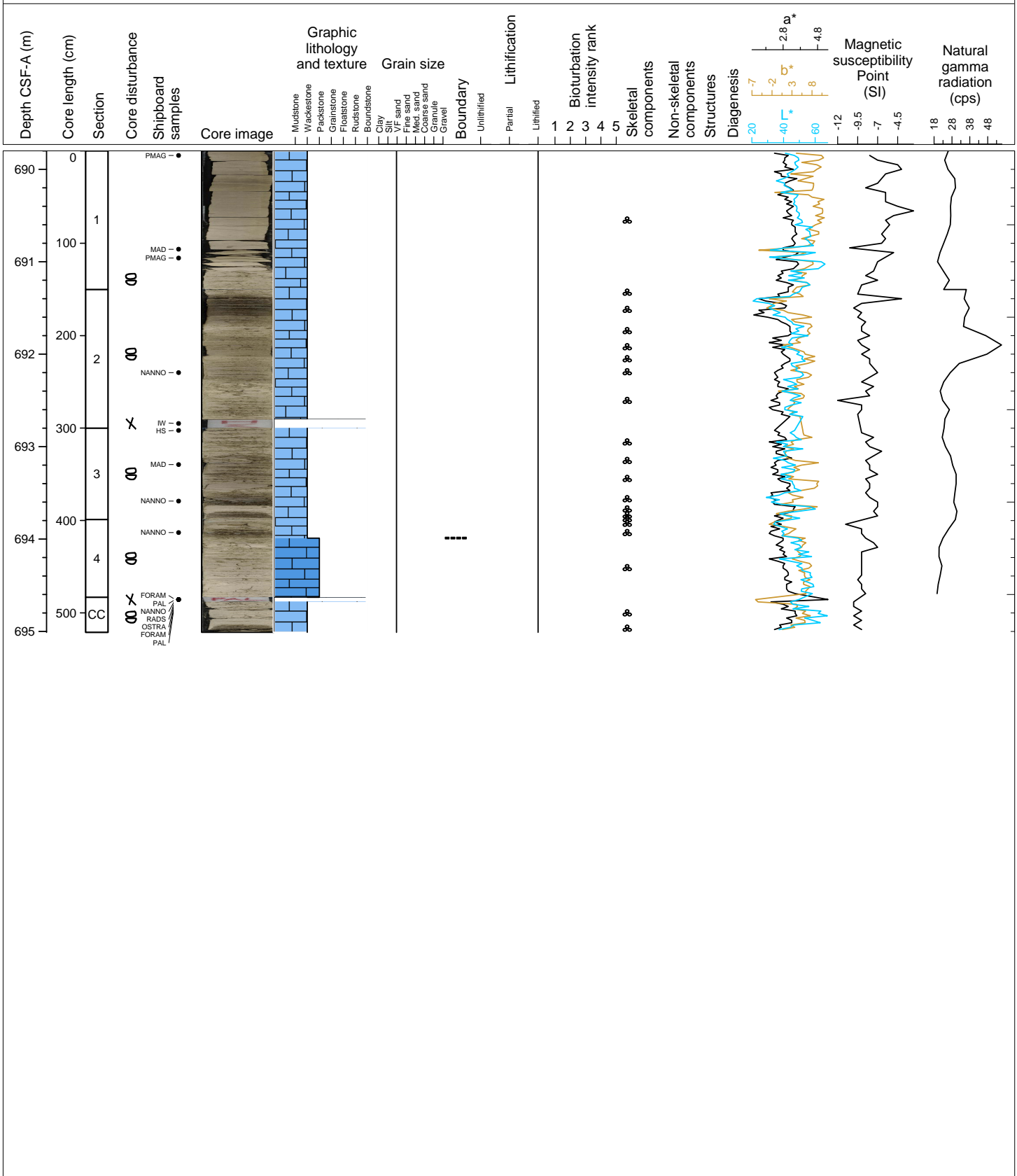
Hole 359-U1468A Core 92X, Interval 680.1-681.95 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich WACKESTONE. Very fine-grained. Planktic foraminifera abundant. Light gray to white, alternating (~30 each band) Bioturbation is complete when discernable. Minor lithology: None. Remarks: CC completely destroyed by drilling disturbances. Highly deformed by drilling disturbance, principle observed changes are only color.



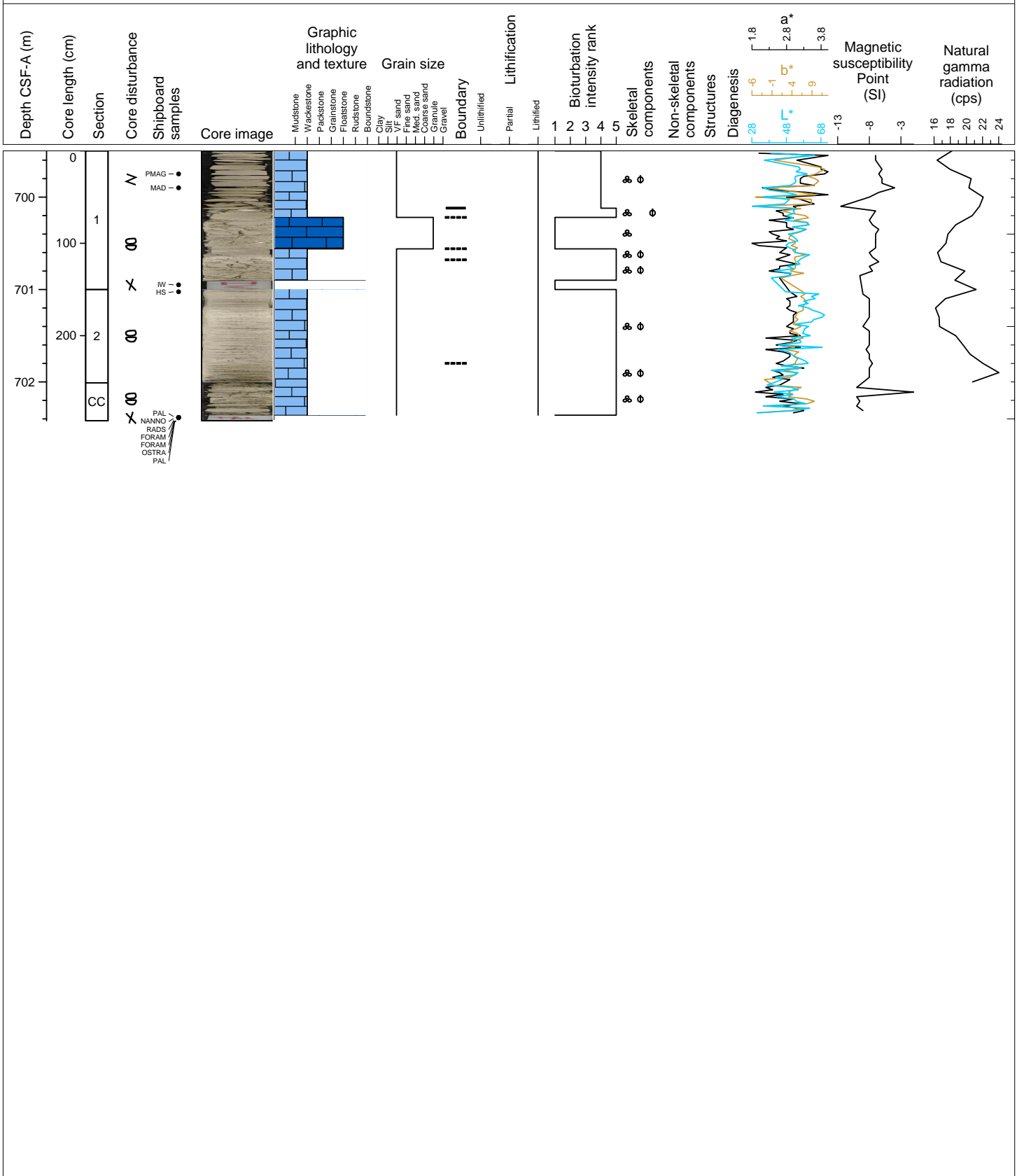
Hole 359-U1468A Core 93X, Interval 689.8-695.01 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich WACKESTONE. Very fine-grained. Planktic foraminifera abundant with other bioclastic grains. Very dark grayish brown to white, alternating (~30 each band) Bioturbation is complete when discernable, Chondrites, Phycosiphon common. Minor lithology: None.
 Remarks: Highly deformed by drilling disturbance, principle observed changes are only color.



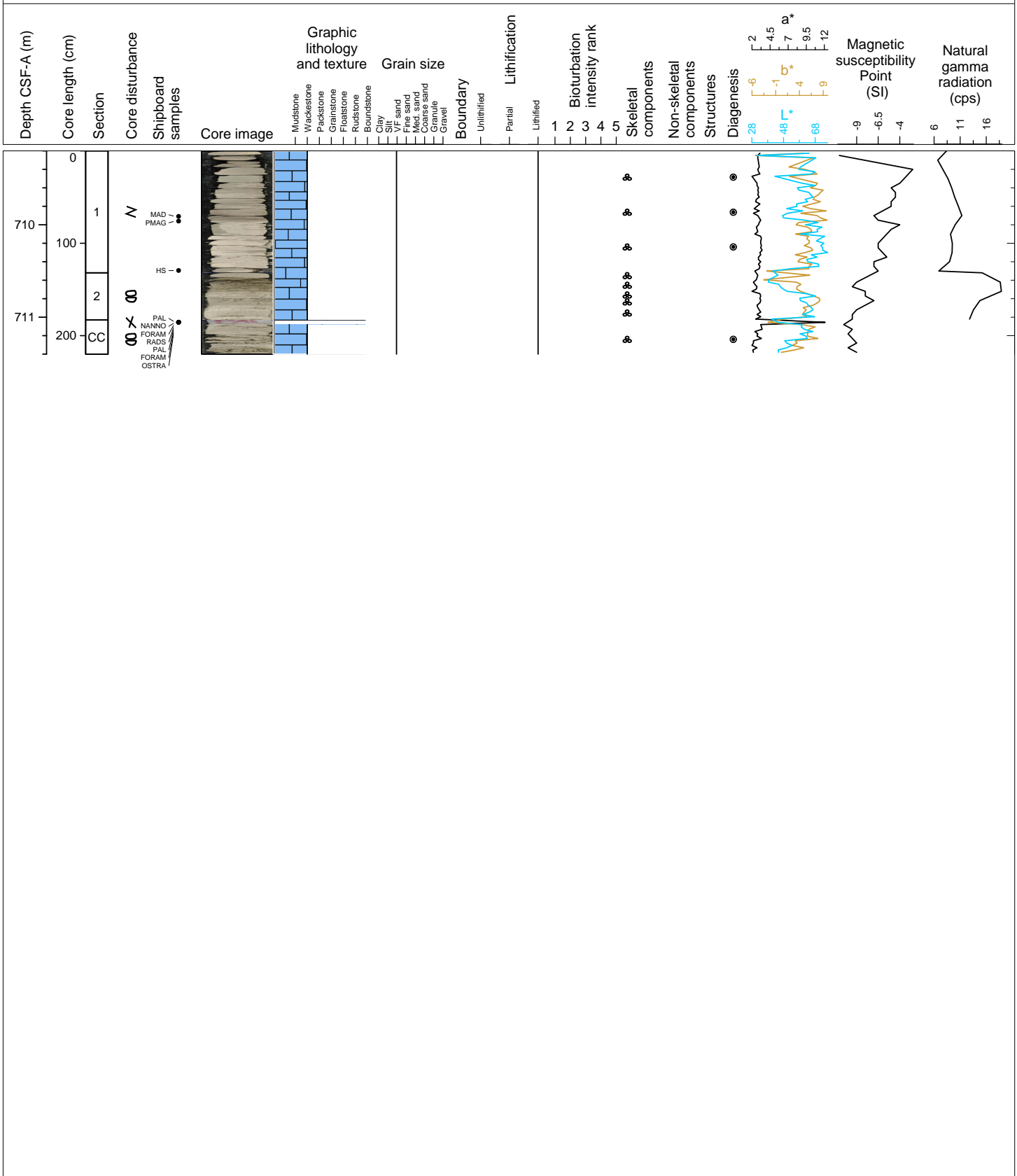
Hole 359-U1468A Core 94X, Interval 699.5-702.42 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich WACKESTONE. Very fine-grained. Planktic foraminifera abundant with other bioclastic grains. Very dark grayish brown to white, alternating (~30 each band) Bioturbation is complete when discernable, Planolites is present. Minor lithology: Clast rich WACKESTONE to FLOATSTONE. Very fine-grained matrix with granule-grained. Large white clasts and planktic foraminifera. Pale yellow. Inclined bedding and boundaries. Remarks: Possible mass transport deposit (minor lithology) in section 1 based on large fragments and non-horizontal bedding, prob. debris.



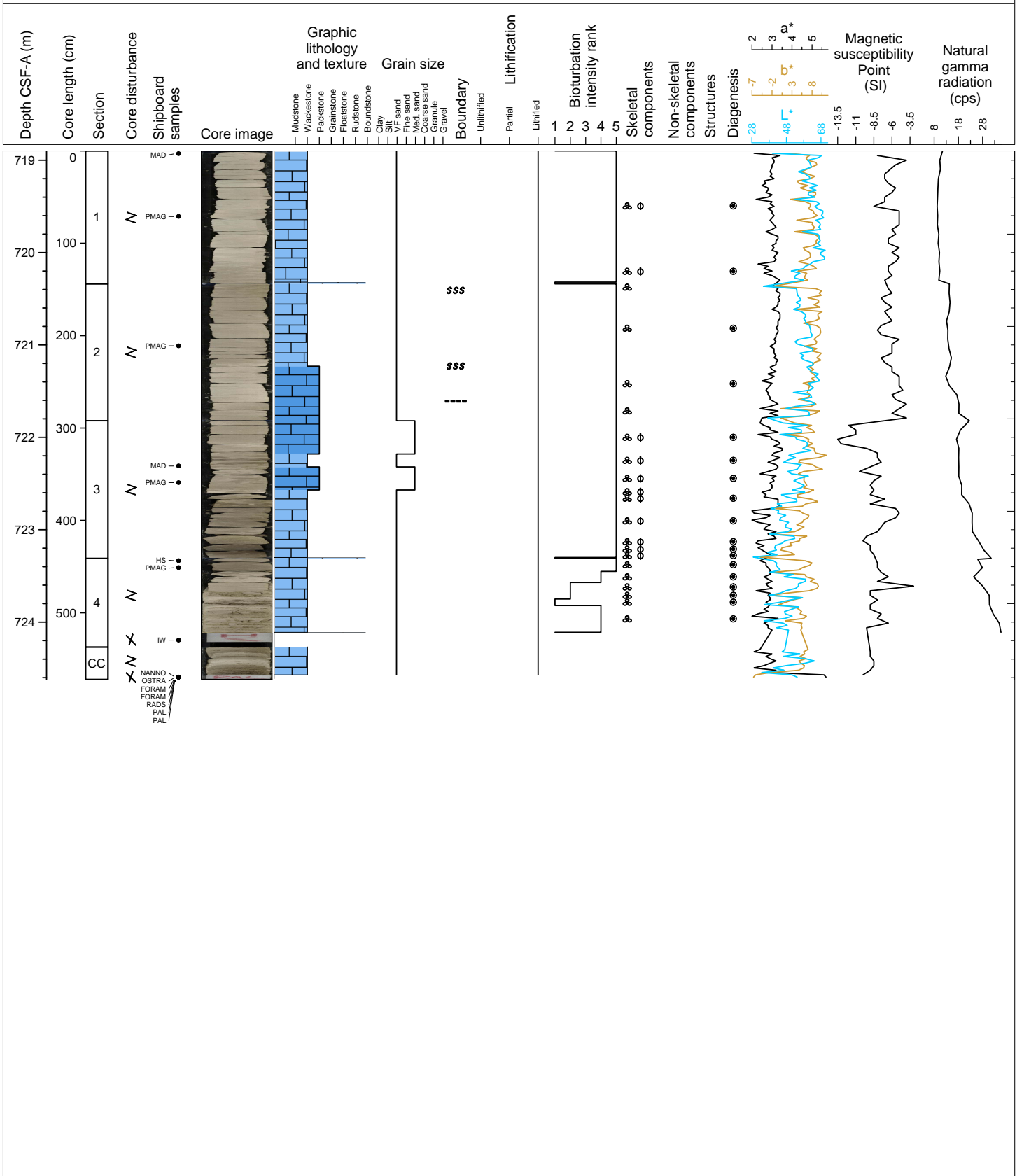
Hole 359-U1468A Core 95X, Interval 709.2-711.4 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich WACKESTONE. Very fine-grained. Planktic foraminifera abundant with other bioclastic grains. Light gray to white. Bioturbation is complete when discernable, Thalassinoides, Planolites and Phycosiphon are present. Minor lithology: None. Remarks: N/A



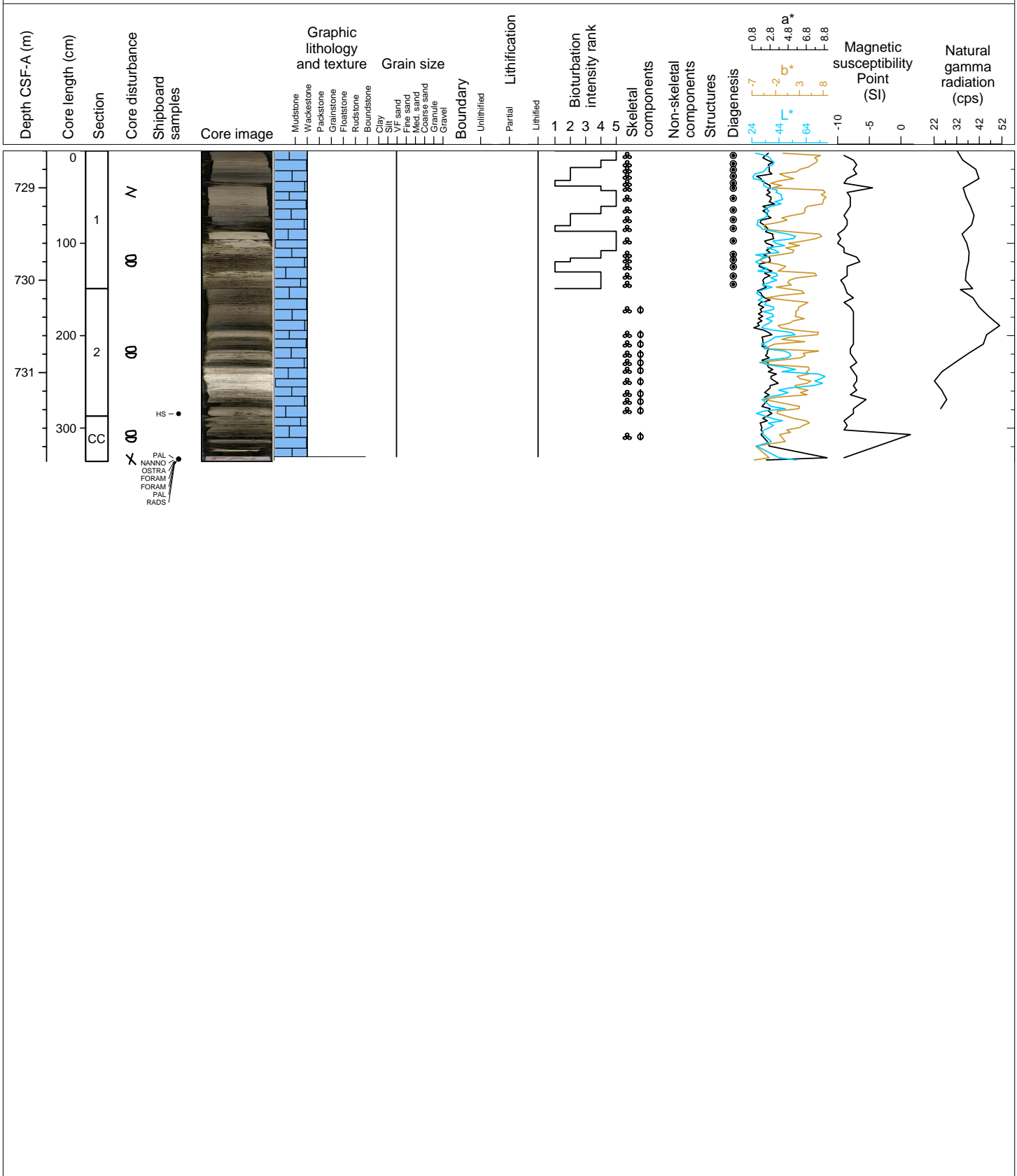
Hole 359-U1468A Core 96X, Interval 718.9-724.62 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich WACKESTONE to PACKSTONE. Very fine-grained. Planktic foraminifera abundant with other bioclastic grains. Very dark grayish brown to white, alternating (~10 each band) Bioturbation is complete when discernable, Palaeophycus, Asterosoma, Teichichnus, Chondrites, Thalassinoides and Planolites are present. Minor lithology: None. Remarks: CC is destroyed by drilling disturbance.



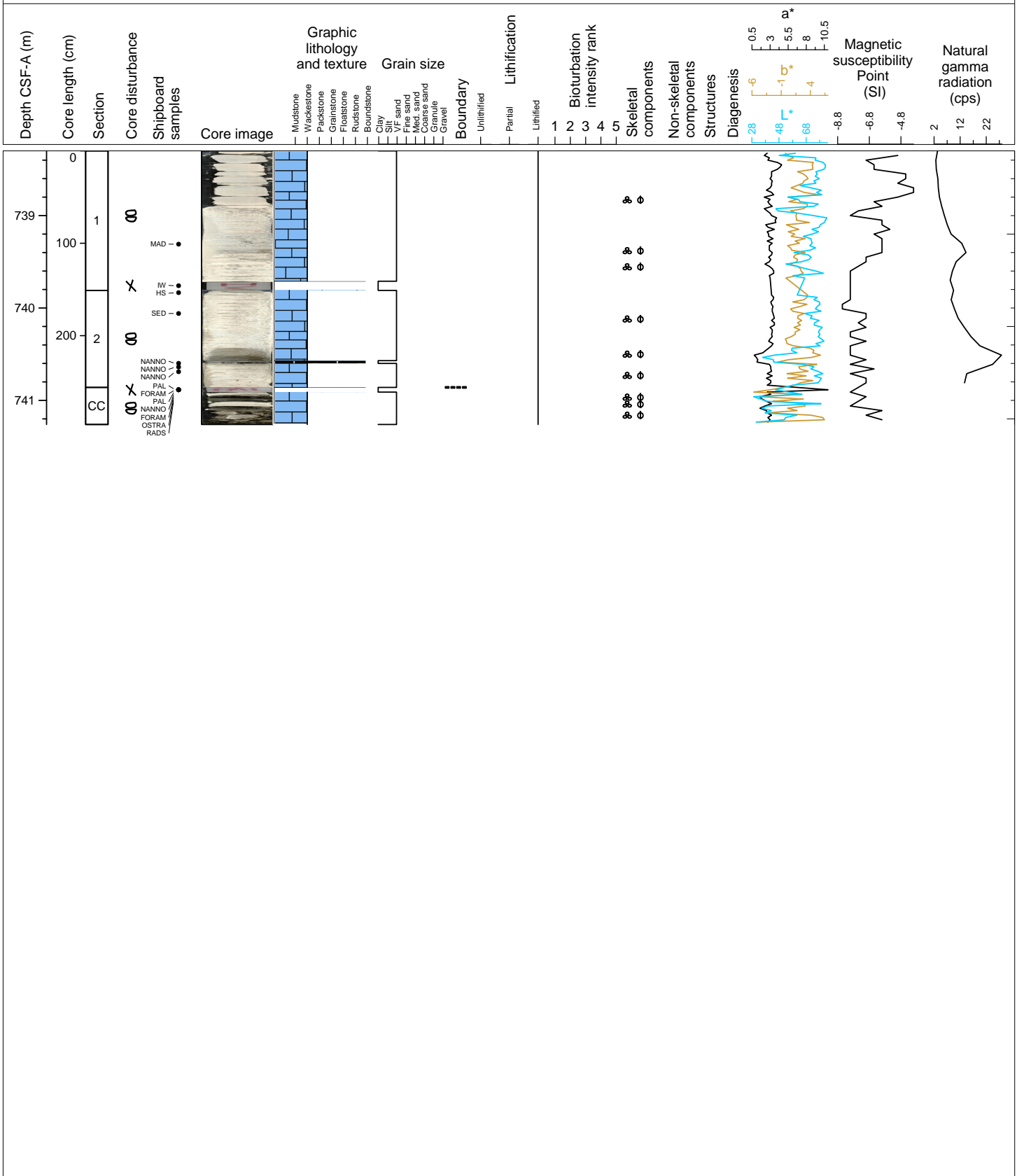
Hole 359-U1468A Core 97X, Interval 728.6-731.96 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich WACKESTONE. Very fine-grained. Planktic foraminifera are abundant, benthic foraminifera present. Light gray to white, alternating. Bioturbation is absent to complete when discernable, Palaeophycus, Planolites and Phycosiphon are present. Color alternation is unidirectional from black bioturbation free to black with small ichnofossils to gray/white with larger trace fossils. Minor lithology: None. Remarks: Section 2 and CC are destroyed by drilling disturbance and no details other than color can be clearly discerned, texture is based on remaining cutting and interact portion.



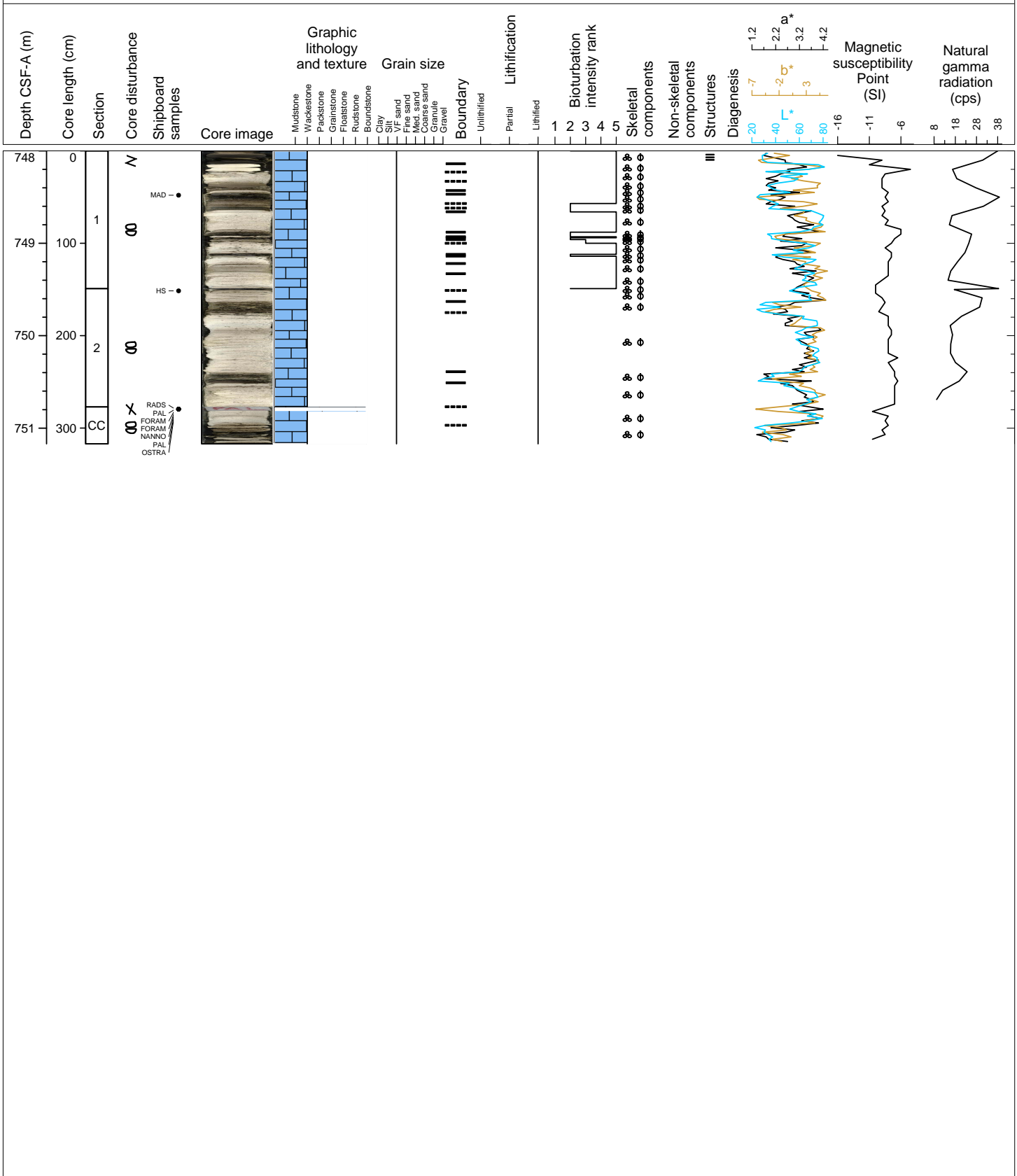
Hole 359-U1468A Core 98X, Interval 738.3-741.26 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich white MUDSTONE (Chalk) and interlayered organic rich dark gray brown and black WACKESTONE. Very fine-grained. Planktic foraminifera are abundant. Darker intervals range from 4 cm to 15 cm. Bioturbation is complete. When discernable Chondrites is present in the organic rich intervals. Black chert layer at 98X-2A, 76-79 cm. Minor lithology: None. Remarks: CC is has severe drilling disturbance.



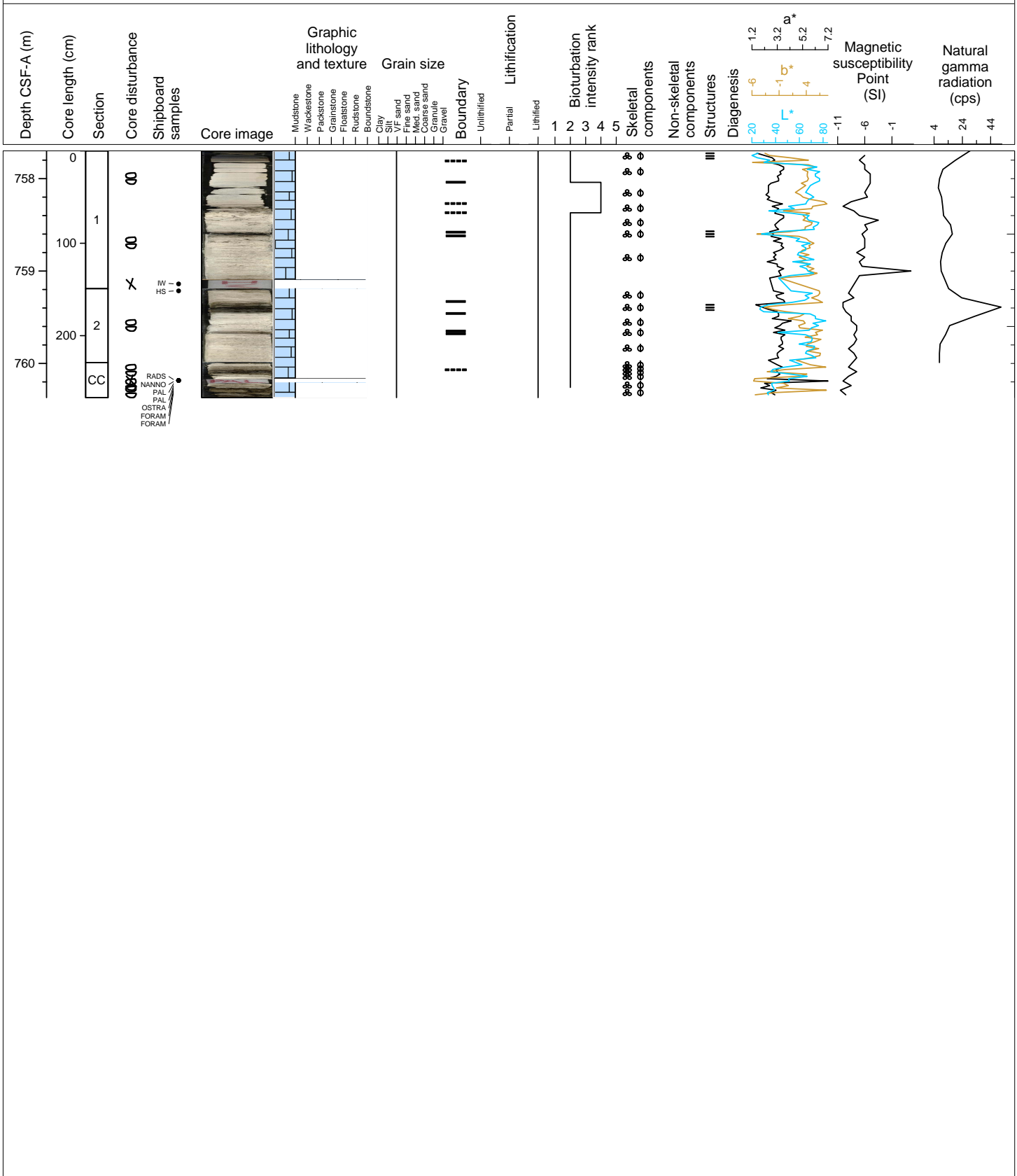
Hole 359-U1468A Core 99X, Interval 748.0-751.17 m (CSF-A)

Major lithology: Major lithology: Lithified planktic foraminifera-rich white MUDSTONE to WACKESTONE (Chalk) and interlayered organic rich dark gray brown and black WACKESTONE. Very fine-grained. Darker intervals range from 1 cm to 15 cm with a greater concentration in 99X-1A. Planktic foraminifera are abundant. Bioturbation is absent to complete. When discernible is present in the organic rich intervals. Dark gray brown and black WACKESTONE has very vine laminations when drilling disturbance is slight. Minor lithology: None. Remarks: CC is has severe drilling disturbance.



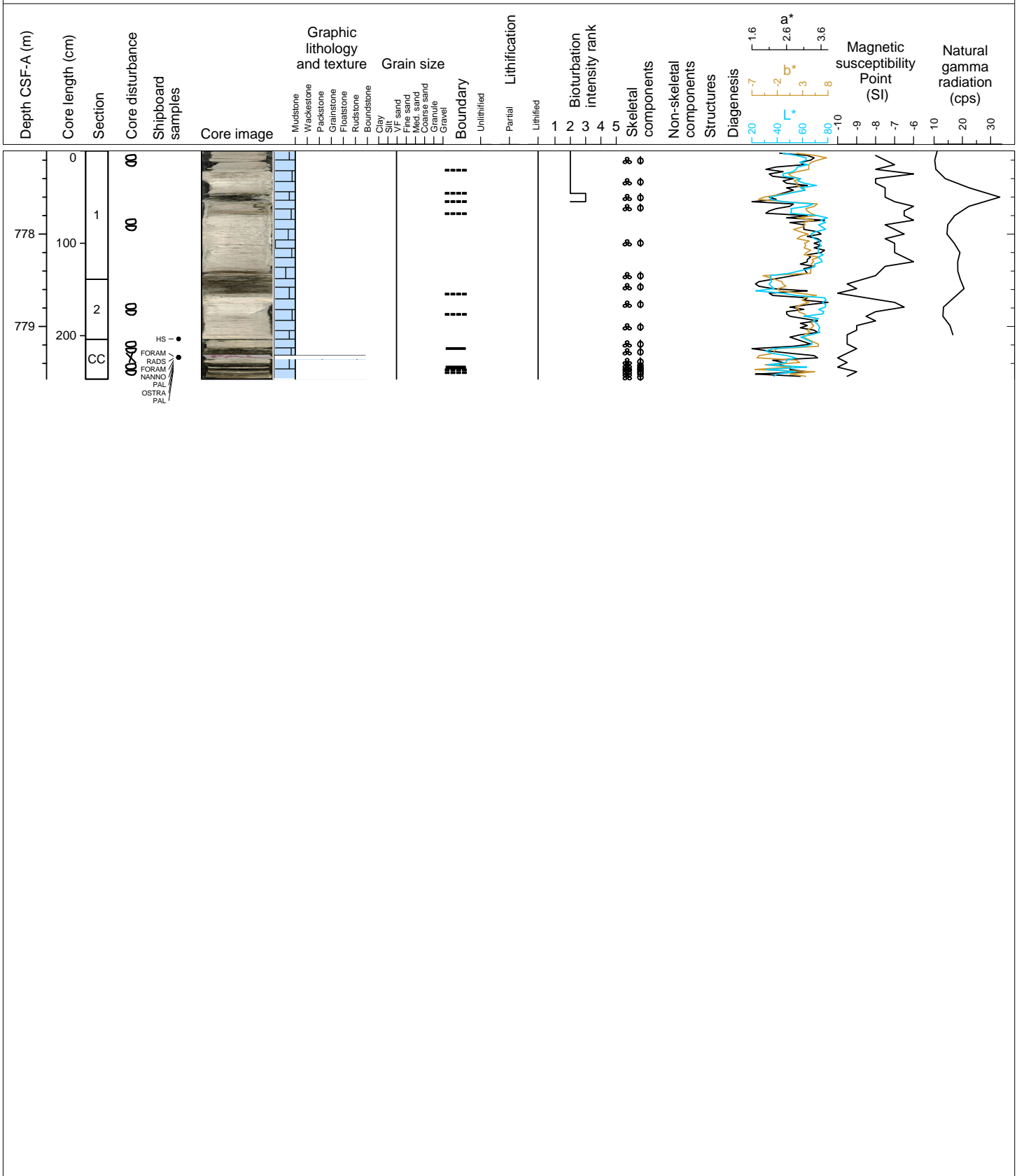
Hole 359-U1468A Core 100X, Interval 757.7-760.37 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich white and pale gray WACKESTONE to MUDSTONE with interlayered organic rich dark gray brown and black MUDSTONE to WACKESTONE with slightly more mud. Darker intervals range from 3 cm to 10 cm and preserve very-fine laminations in less disturbed intervals.
 Minor lithology: None. Remarks: Abundant black grains (pyrite), concentrated in organic rich layers.



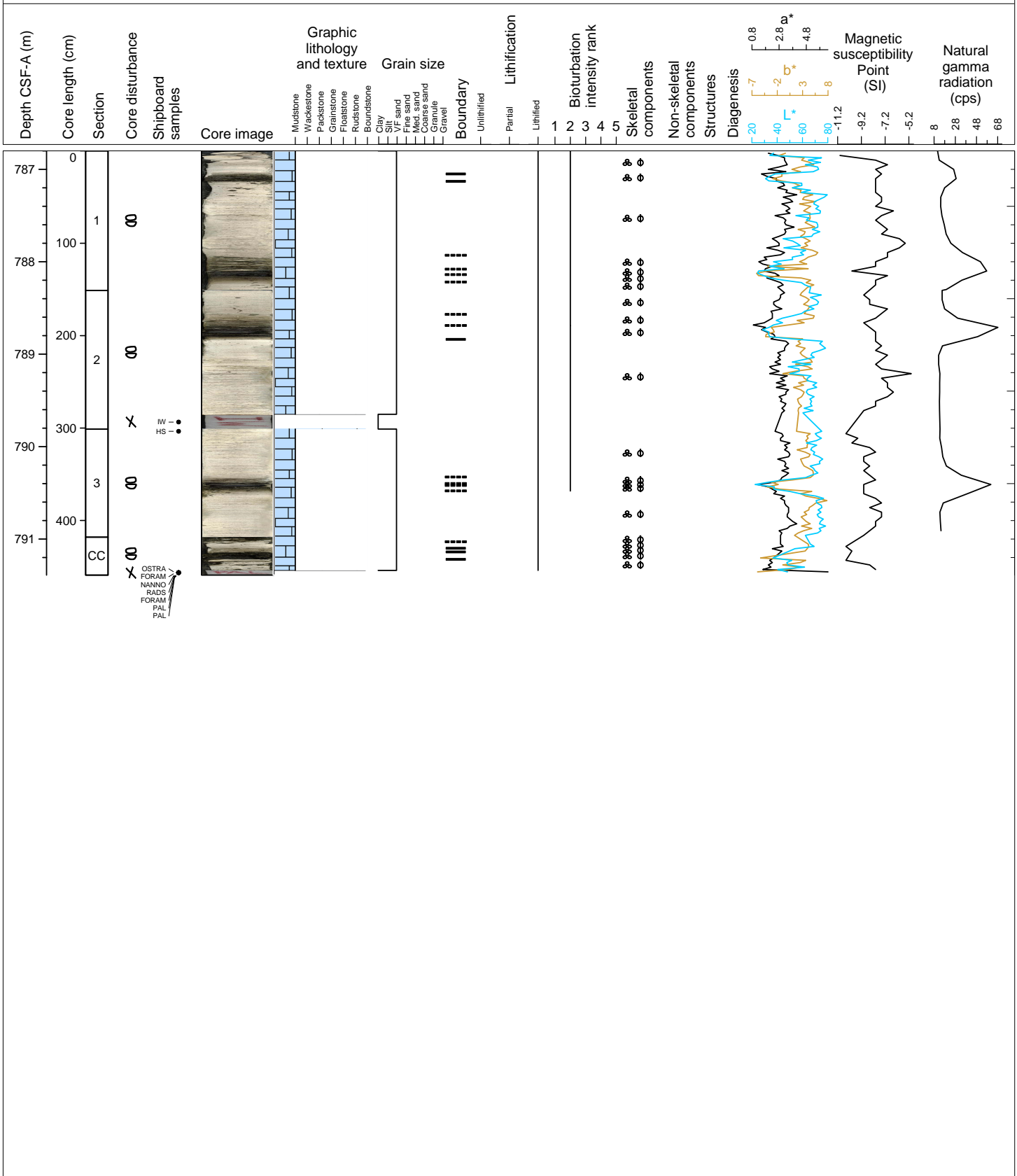
Hole 359-U1468A Core 102X, Interval 777.1-779.57 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich white pale gray WACKESTONE to MUDSTONE with interlayered organic rich dark gray brown and black MUDSTONE to WACKESTONE with slightly more mud. Darker intervals range from 2 cm to 15 cm and preserve very-fine laminations in less disturbed intervals. Bioturbation is slight to moderate with Planolites and Phycosiphon present in less disturbed darker intervals. Minor lithology: None. Remarks: Section 2A to CC is severely disturbed



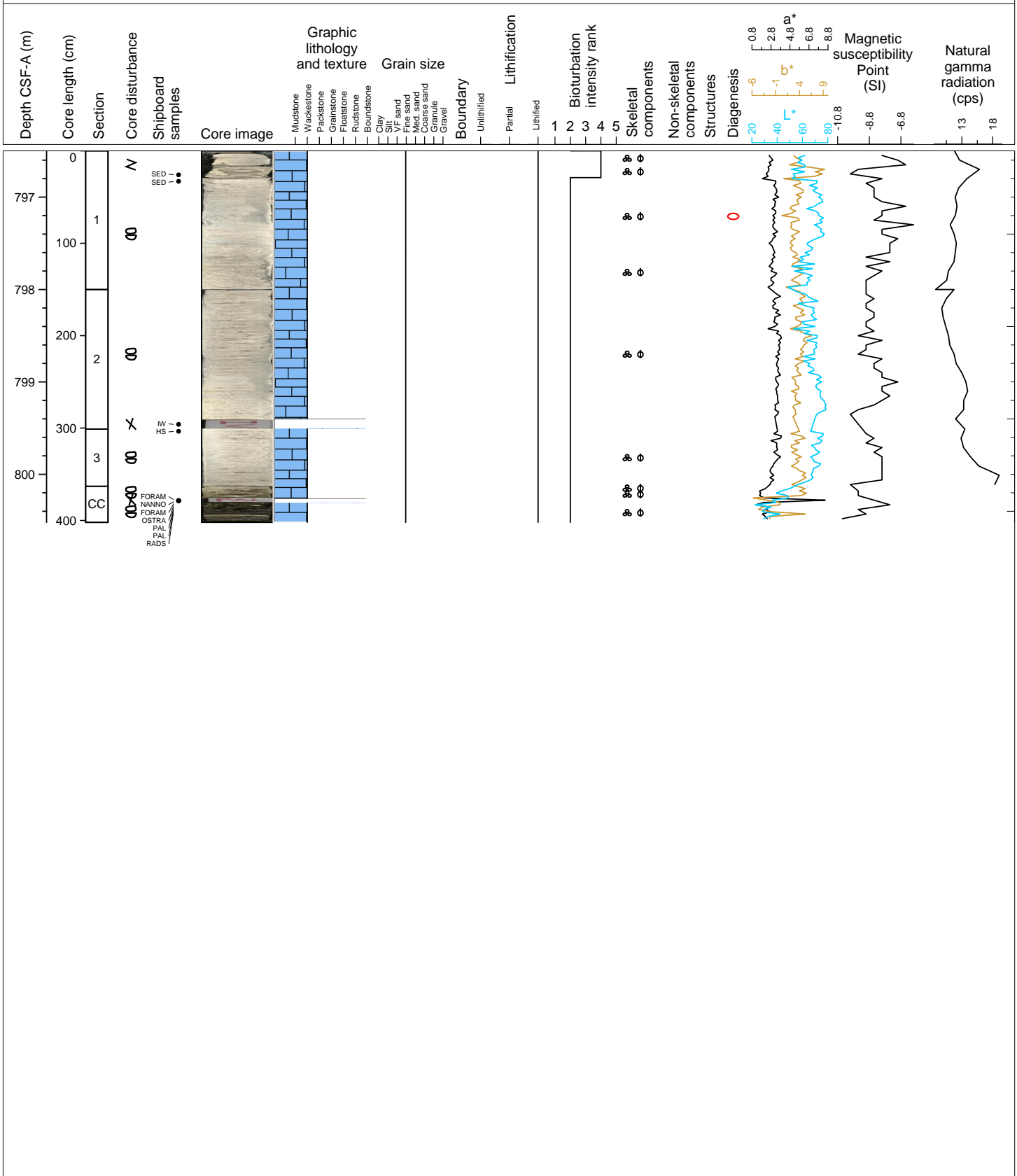
Hole 359-U1468A Core 103X, Interval 786.8-791.39 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich white pale gray WACKESTONE to MUDSTONE with interlayered organic rich dark gray brown and black MUDSTONE to WACKESTONE with slightly more mud. Darker intervals range from 2 cm to approximately 25 cm and preserve very-fine laminations in less disturbed intervals. Bioturbation is slight to moderate with Planolites and Phycosiphon present in less disturbed darker intervals and pyrite burrow fill present in white intervals. Minor lithology: None. Remarks: The CC is severely disturbed.



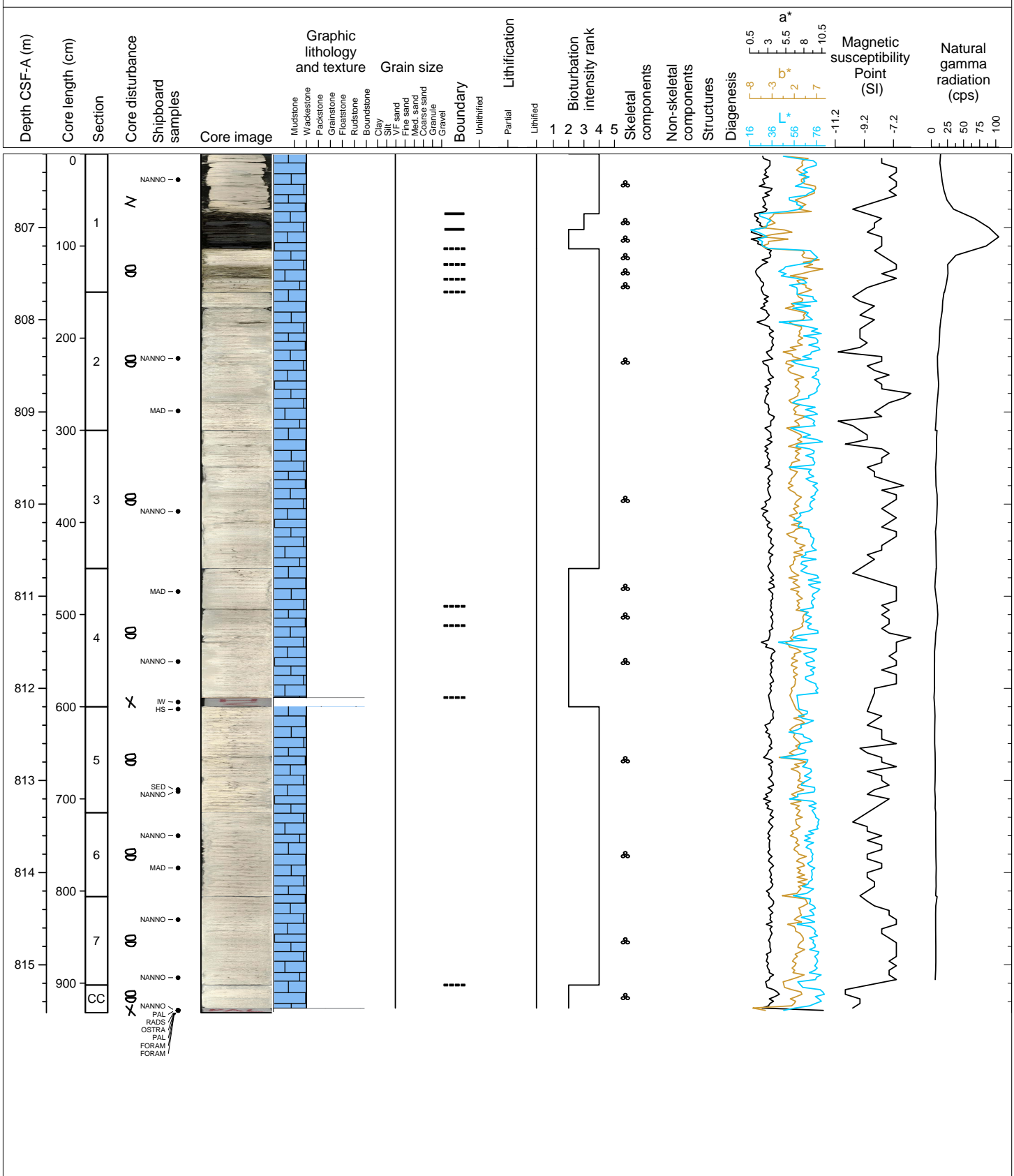
Hole 359-U1468A Core 104X, Interval 796.5-800.52 m (CSF-A)

Major lithology: Lithified planktic foraminifera-rich white pale gray WACKESTONE with organic rich dark gray brown and black WACKESTONE preserved in the core catcher only. Fine-grained. Planktic foraminifera are present. Bioturbation is slight to moderate when observed. Organic matter and pyrite present in burrow infill. Minor lithology: None. Remarks: Strong disturbance throughout the core and severely disturbed from 104X-2 to CC.



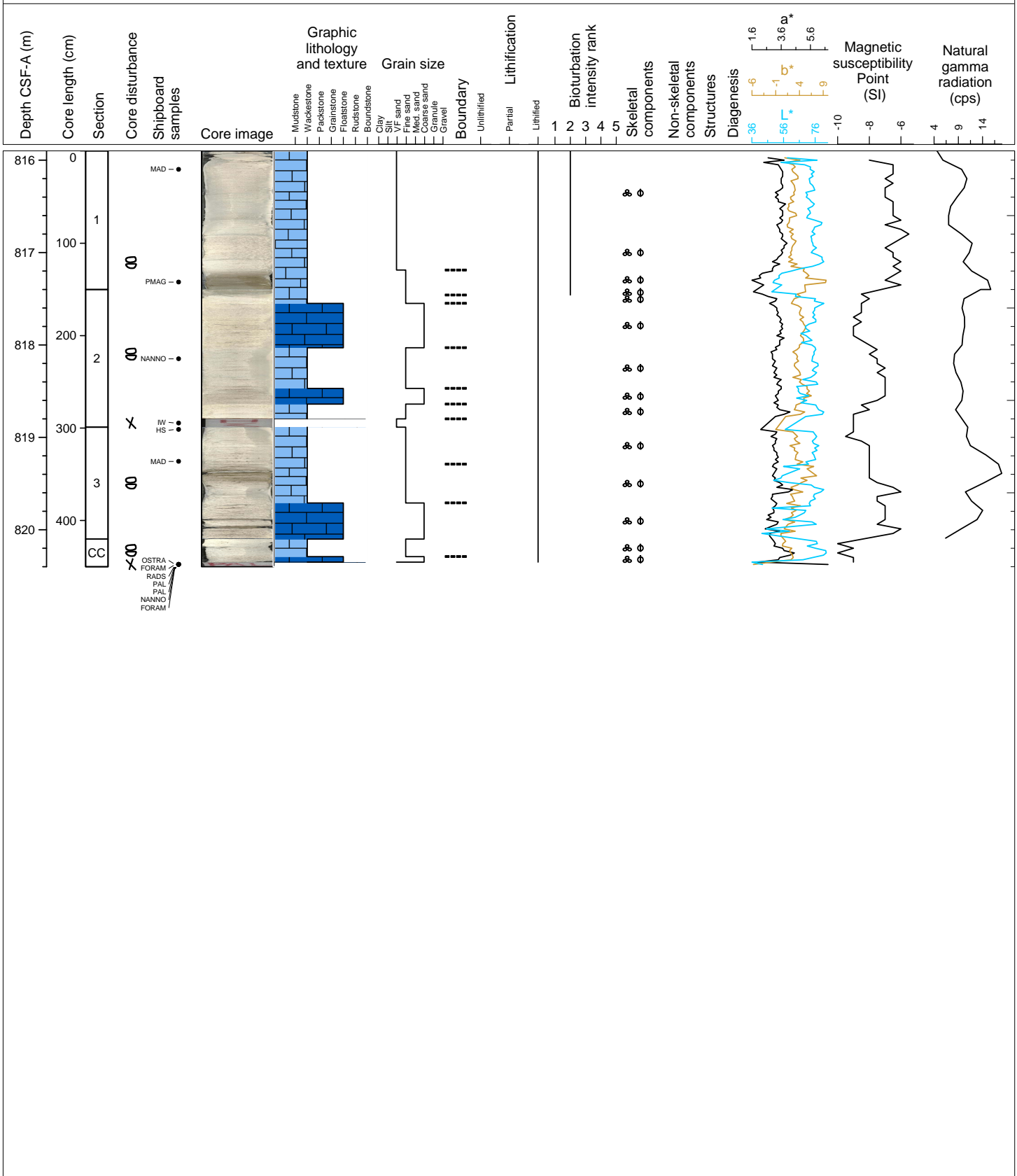
Hole 359-U1468A Core 105X, Interval 806.2-815.52 m (CSF-A)

Major lithology: Lithified WACKESTONE to MUDSTONE. Very fine-grained, pale yellow to white. Planktic foraminifera are present. Dark colored burrows with abundant organic infill. Bluish color in some burrows (pyrite). Bioturbation is slight to common with Zoophycos present and possibly Teichinus and Asterosoma. Minor: Lithified MUDSTONE, very fine-grained, olive brown to black with abundant organic matter (105X-1, 64 cm - 103 cm). Bioturbation is slight with Planolites and Phycosiphon abundant. Minor lithology also present as mottle (bioturbation) in 105X-1 120 - 136 cm. Remarks: Core is moderately to severely disturbed form 105X-2, 00 cm.



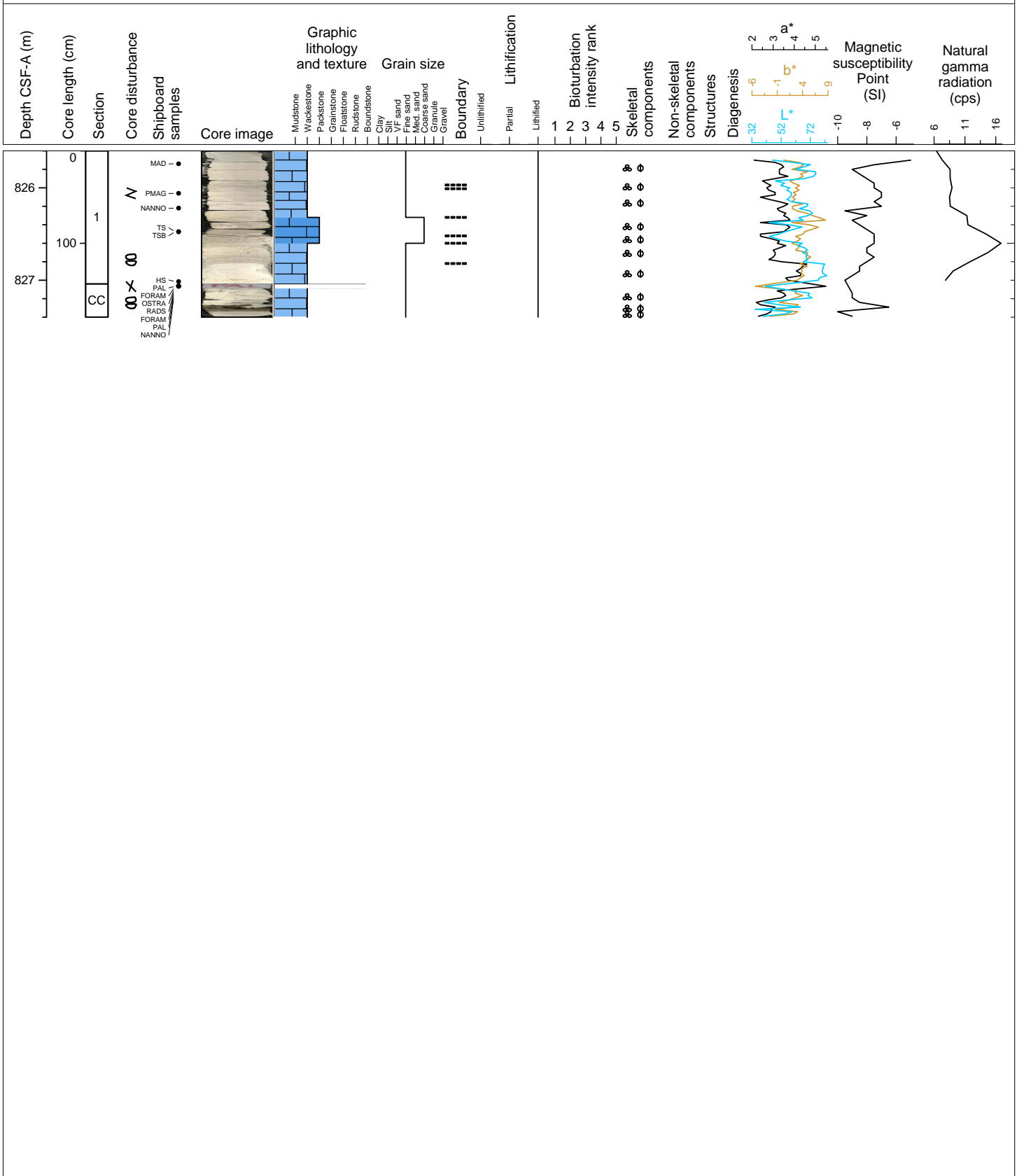
Hole 359-U1468A Core 106X, Interval 815.9-820.4 m (CSF-A)

Major lithology: Lithified WACKESTONE and interlayered FLOATSTONE. WACKESTONE Fine- to medium-grained, pale yellow to white. Planktic foraminifera are abundant and large benthic foraminifera (*Lepidocyclina*, and *Amphistegina*) are present. Minor: Interlayered lithified FLOATSTONE (106X-2A, 15 - 63 cm, 107-124, 106X-3A, 82-121 cm and 106X-CC, 19-30 cm). Coarse-grained grained. Planktic foraminifera are abundant and benthic foraminifera (*Lepidocyclina*, and *Amphistegina*) common. Benthic foraminifera are fragmented, reworked, and yellow/orange stained. Grain aggregates are present. Remakes: Benthic foraminifera increasing in size down core from 106X-3, 60 cm and again at 80 cm. Some foraminifera are reworked, broken and yellow/orange stained. Grain aggregates are present. Cave in for top 91 cm.



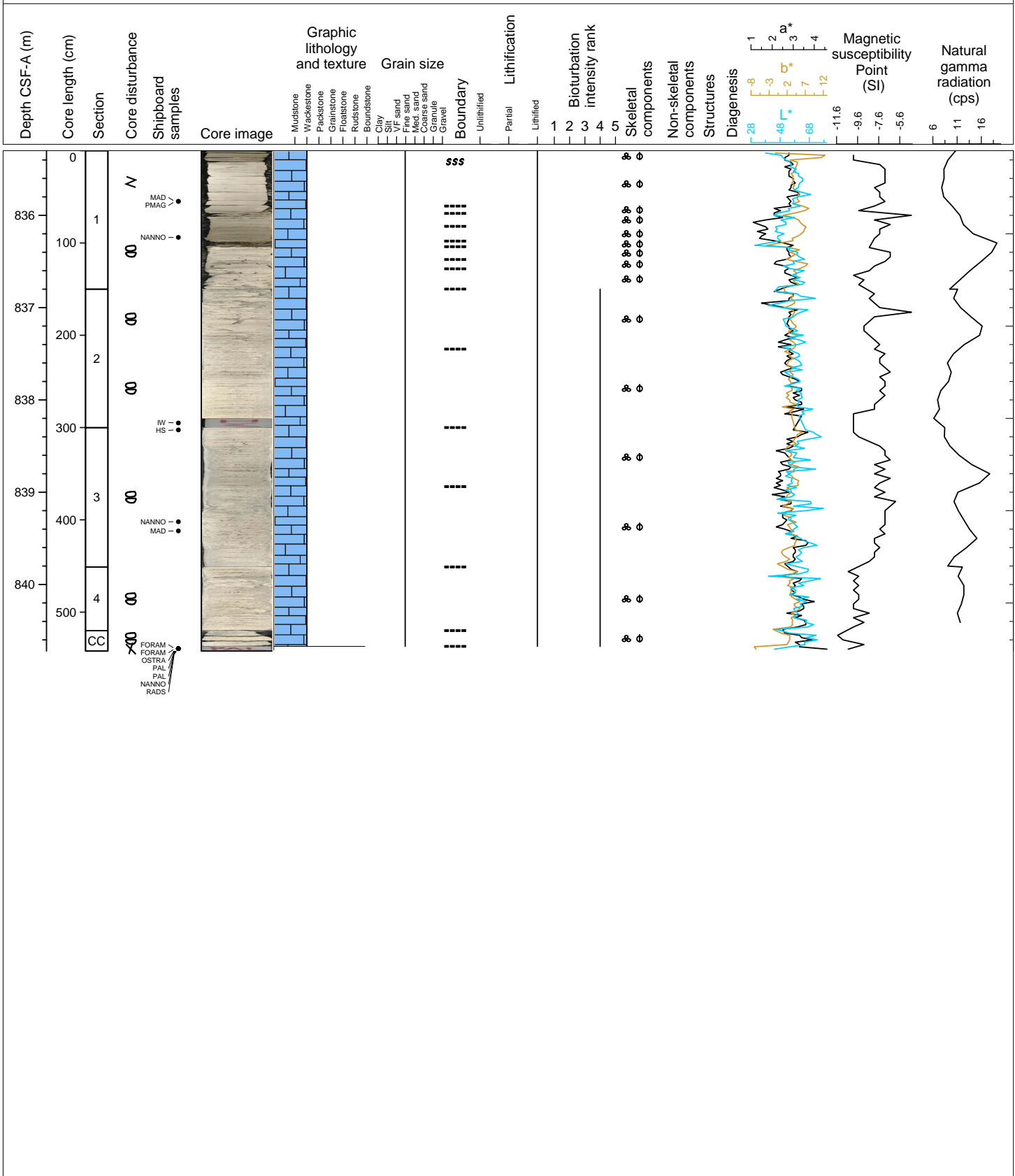
Hole 359-U1468A Core 107X, Interval 825.6-827.4 m (CSF-A)

Major lithology: Lithified WACKESTONE. Fine- to medium-grained, pale yellow to white. Planktic foraminifera are abundant and benthic foraminifera (Lepidocyclina, and Amphistegina) common. Minor: Interlayered lithified PACKSTONE to RUDSTONE (107X 72 - 122 cm). Coarse to very coarse-grained. Planktic foraminifera are abundant and large benthic foraminifera (Lepidocyclina, Miogypisina, and Amphistegina) are common. See thin section 107X-1. Remarks: N/A.



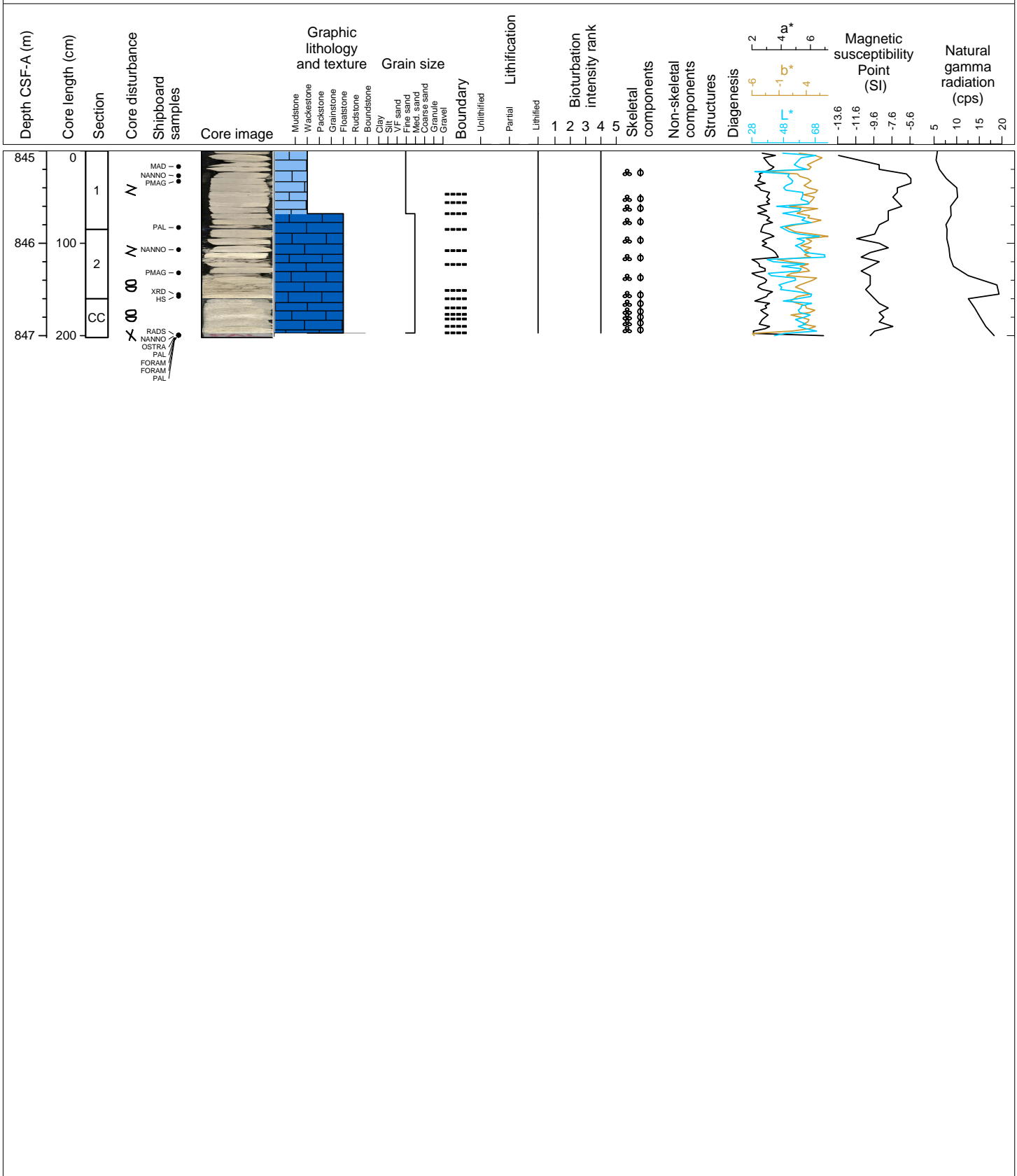
Hole 359-U1468A Core 108X, Interval 835.3-840.72 m (CSF-A)

Major lithology: Lithified WACKESTONE. Very-fine to fine-grained. Planktic foraminifera are abundant and benthic foraminifera (*Lepidocyclina*, and *Amphistegina*) common. Some *Lepidocyclina* up to 8 mm long. Bioturbation is common with *Planolites* and *Phycosiphon* present. Some burrows with pyrite and glauconite infill. Minor: None. Remarks: N/A.



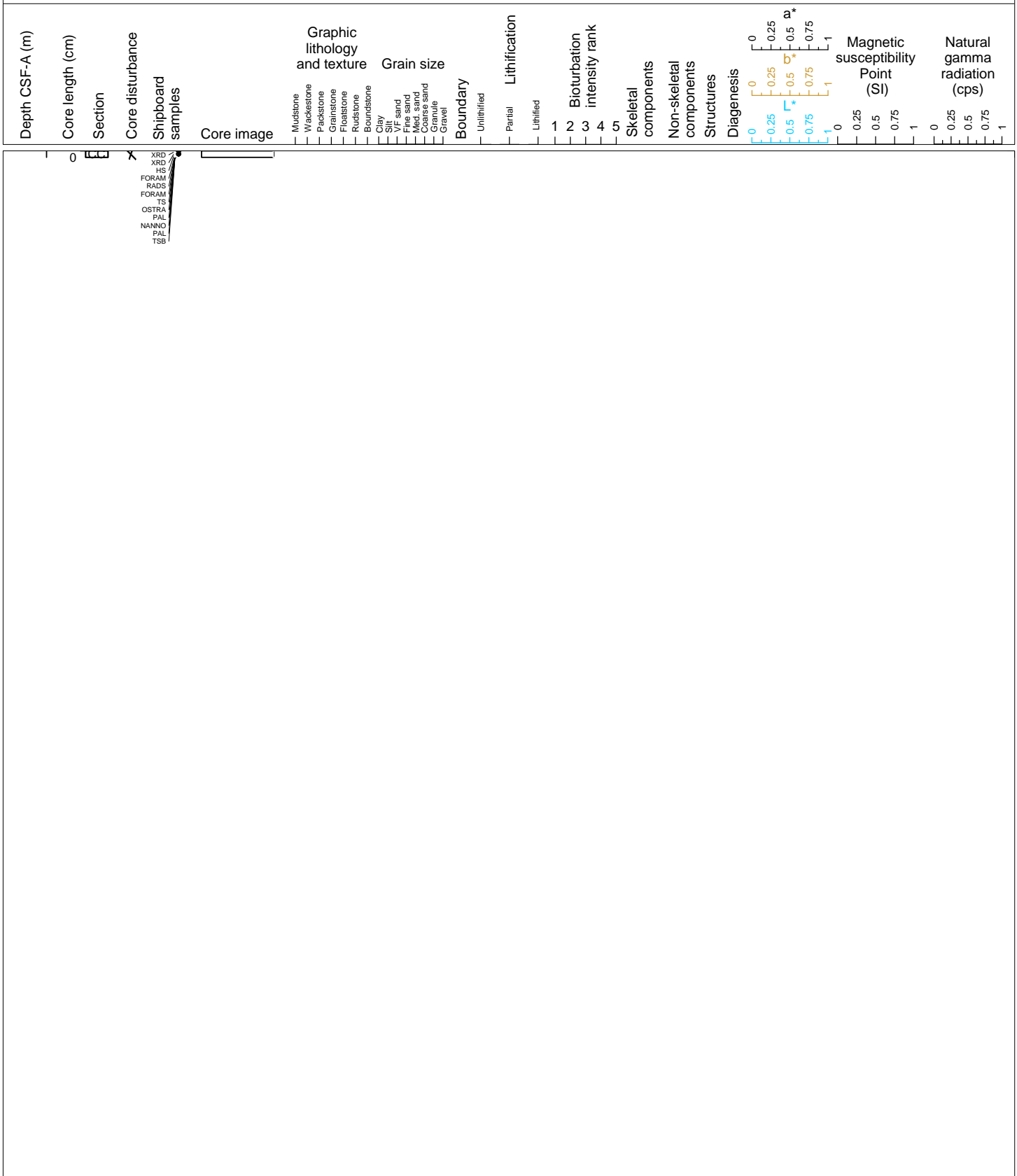
Hole 359-U1468A Core 109X, Interval 845.0-847.02 m (CSF-A)

Major lithology: Lithified FLOATSTONE. Fine- to medium-grained, very pale brown to white. Planktic foraminifera are abundant and large benthic foraminifera (Lepidocyclina, and Amphistegina) common. Some Benthic foraminifera up to 3 cm, and some preserved in glauconite. Bioturbation is common with Planolites and Phycosiphon present. Some burrows with pyrite and glauconite infill. Cave-in. Lithified Minor: Fine- to medium-grained WACKESTONE. Planktic foraminifera are abundant and broken benthic foraminifera. Remarks: CC strongly disturbed.



Hole 359-U1468A Core 110X, Interval 854.7-854.77 m (CSF-A)

All to PAL



Hole 359-U1468A Core 111X, Interval 865.0-865.02 m (CSF-A)

Lighter Rock: Bioclastic FLOATSTONE. Medium grained pale yellow. Halimeda plates, bivalve fragments. Large benthic foraminifera and bryozoan are present. Most components preserved as molds. See thin-section. Darker rock: Bioclastic WACKESTONE, fine to medium-grained, light brownish gray. Large coral fragments, benthic foraminifera. Most components preserved as molds. See thin-section. Remarks: Thin section of both samples.

