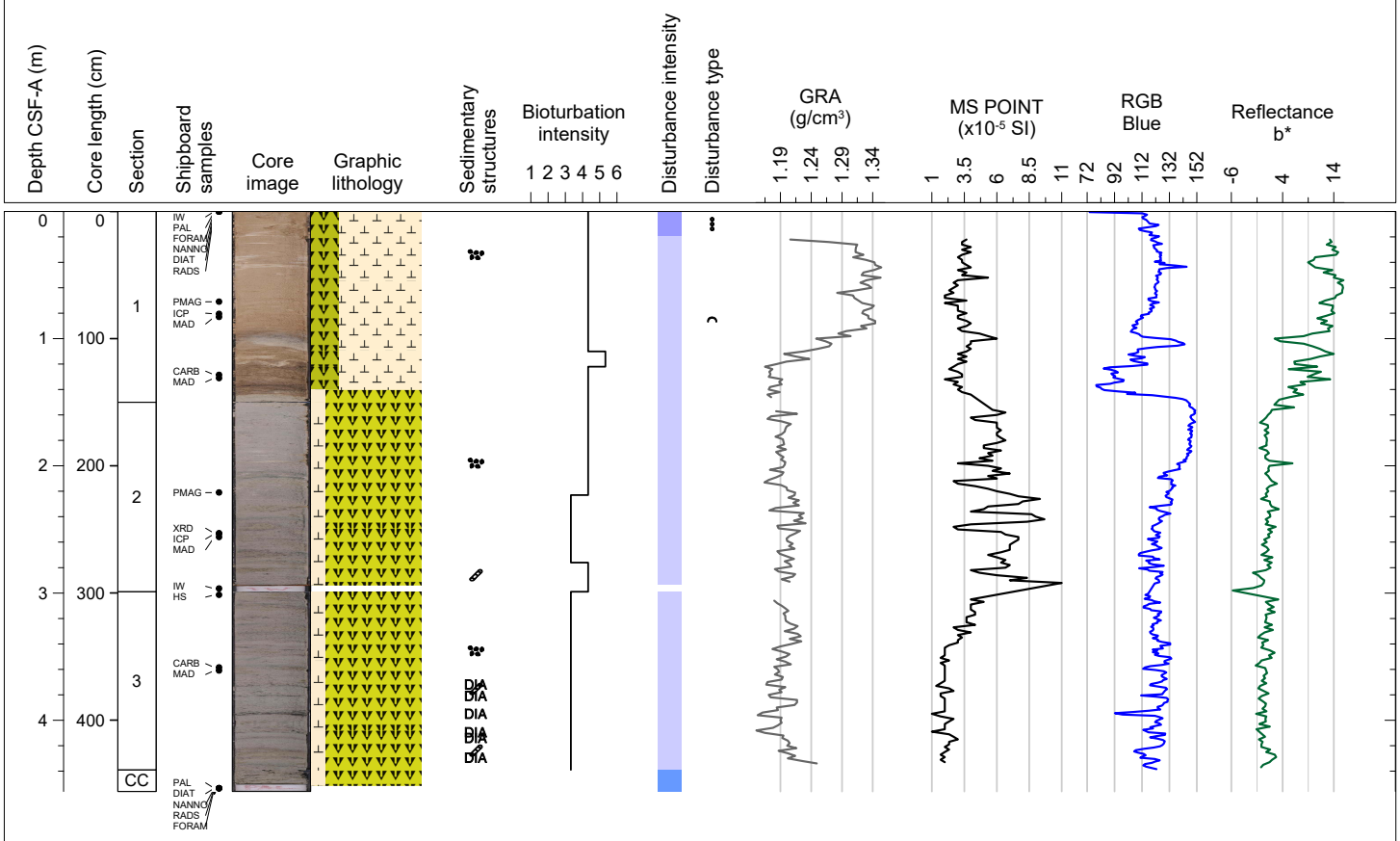
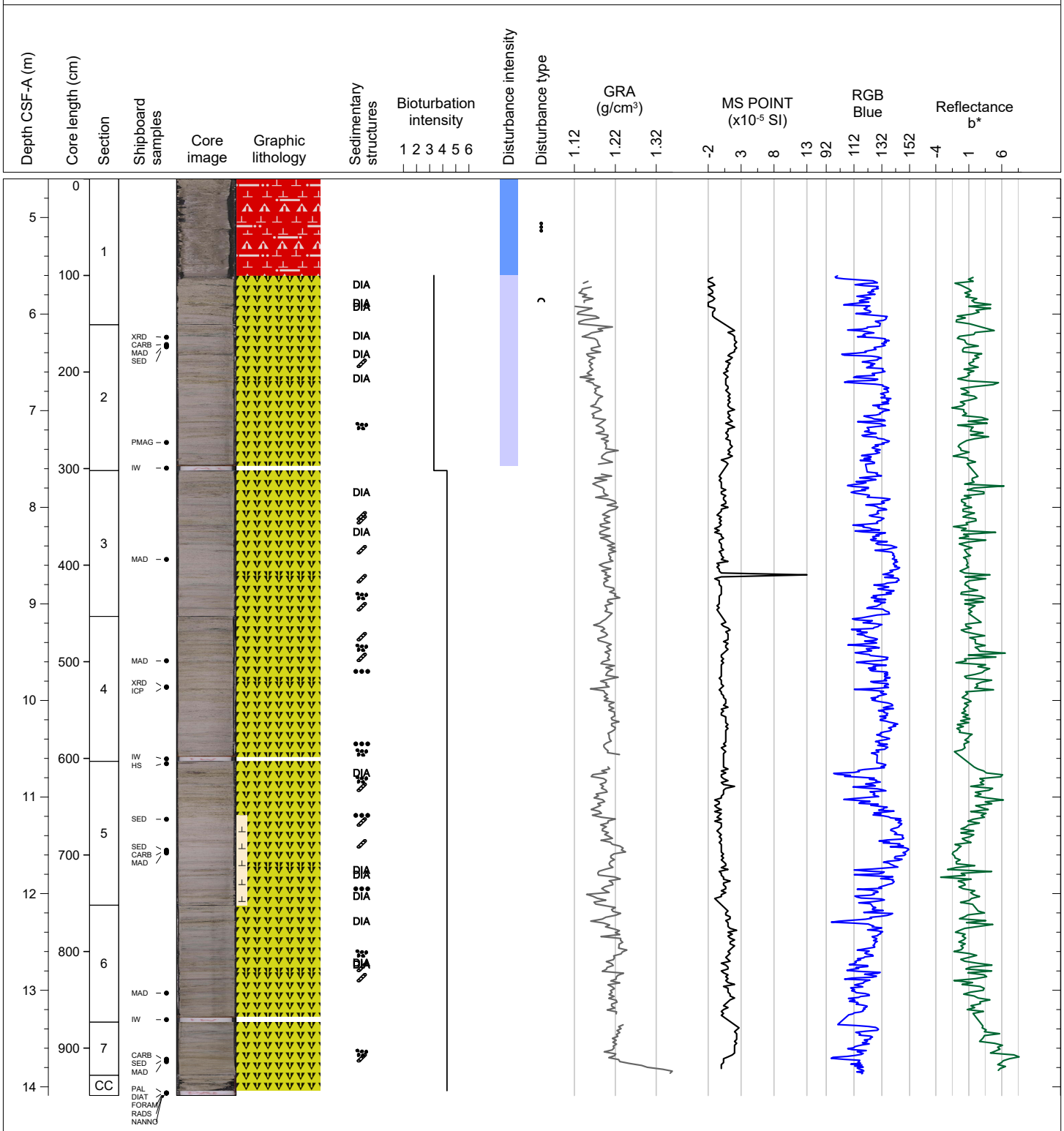
Hole 383-U1539A Core 1H, Interval 0.0-4.56 m (CSF-A)

Very pale brown diatom-rich nannofossil ooze in upper 150 cm, transition to light greenish gray diatom ooze with nannos, radiolarians, sponge spicules and silicoflagellates. 1 cm thick diatom mats observed throughout with slight to moderate bioturbation.



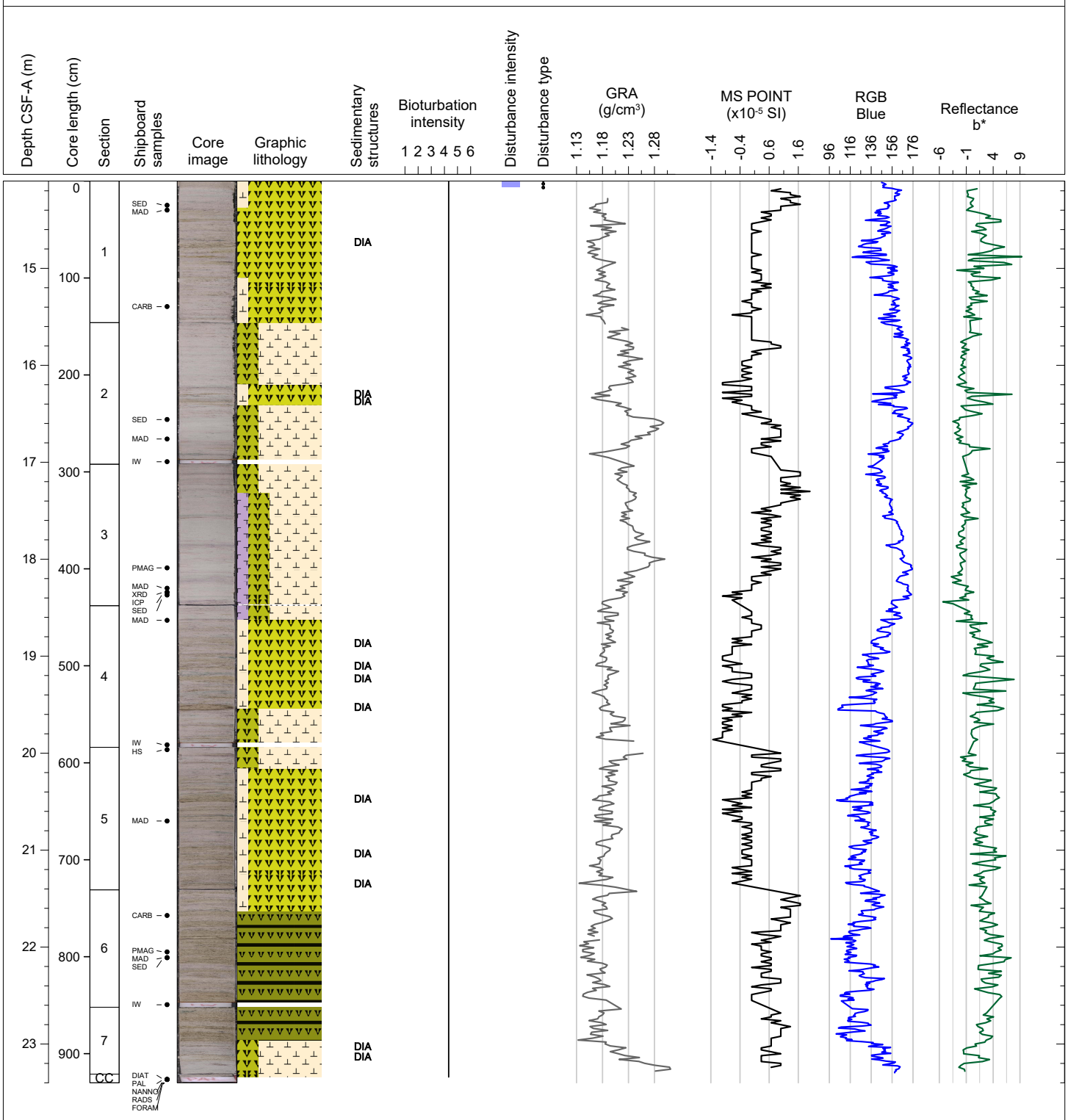
Hole 383-U1539A Core 2H, Interval 4.6-14.09 m (CSF-A)

Upper meter with strong drilling disturbance (no color reflectance measurements) and light greenish gray to greenish gray diatom ooze with intervals of mottled light greenish to olive gray, diatom matts in the upper part of core.



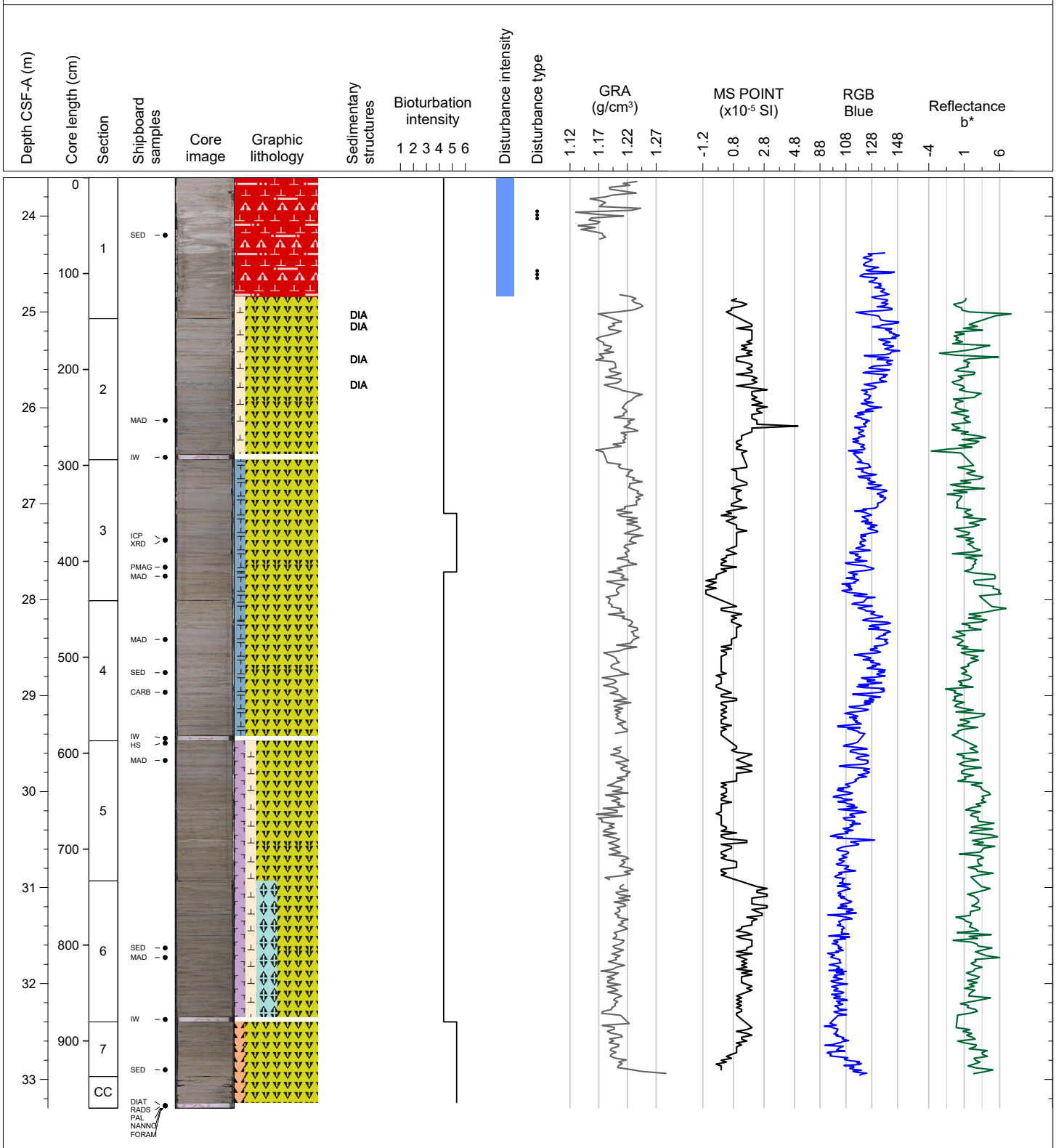
Hole 383-U1539A Core 3H, Interval 14.1-23.4 m (CSF-A)

Light greenish gray nannofossil-bearing diatom ooze with beds of diatom-rich nannofossil ooze. Diatom mats and light greenish gray mottles are abundant throughout diatom ooze intervals.



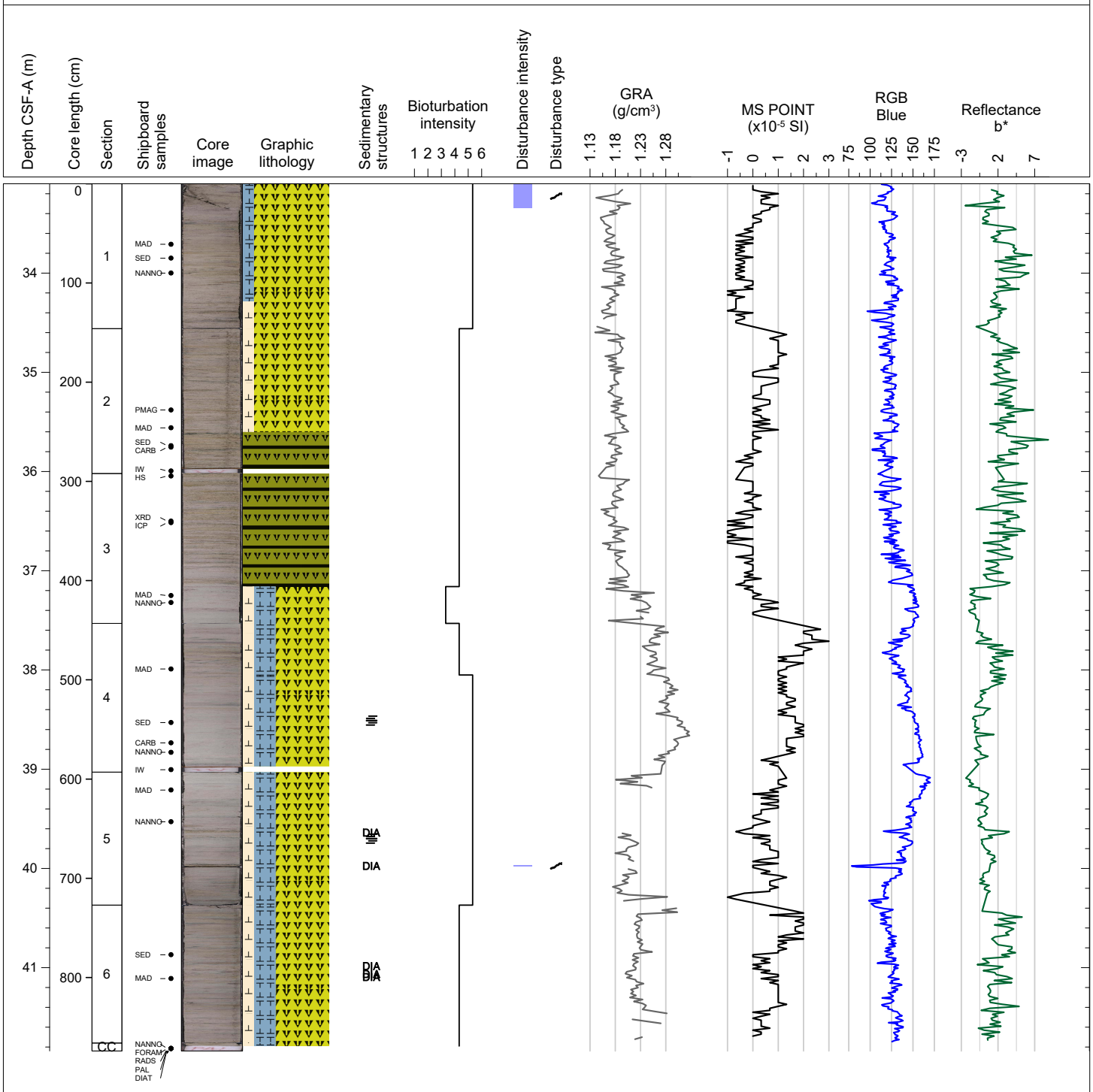
Hole 383-U1539A Core 4H, Interval 23.6-33.3 m (CSF-A)

Greenish gray, dark gray and light olive gray foraminifera- and nannofossil-bearing diatom ooze, carbonate-bearing nannofossil ooze and radiolaria-rich nannofossil ooze. Cm-scale wavy bedding observed in some sections. Moderate to high levels of bioturbation.



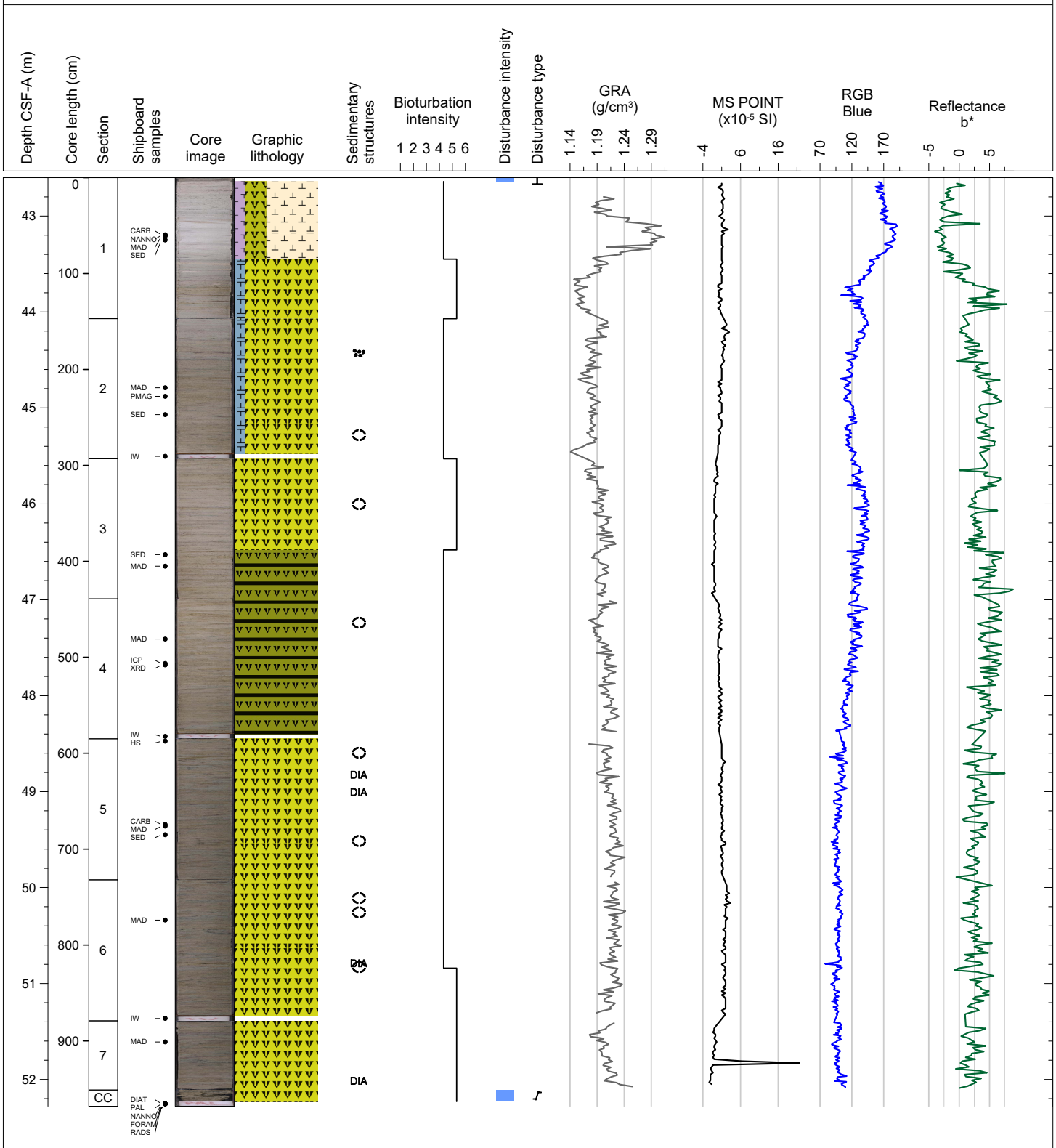
Hole 383-U1539A Core 5H, Interval 33.1-41.84 m (CSF-A)

Greenish gray to gray wavy cm-scale bedded moderately bioturbated diatom ooze with intervals of light greenish gray carbonate-rich strongly bioturbated diatom ooze; frequent diatom matts in darker intervals.



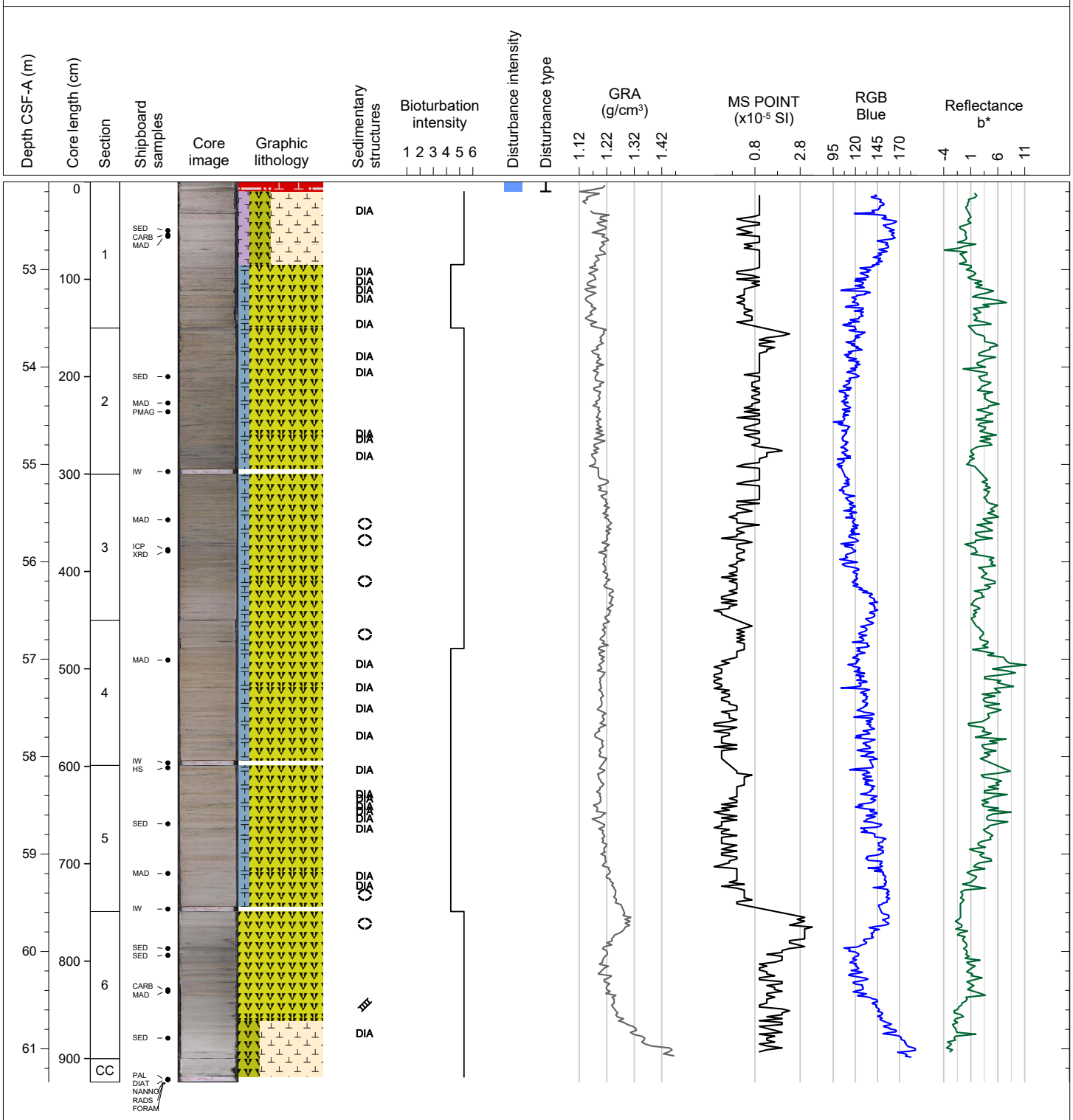
Hole 383-U1539A Core 6H, Interval 42.6-52.28 m (CSF-A)

Light greenish gray wavy cm-scale bedded carbonate-bearing diatom ooze in the upper ~3 m and greenish gray to gray diatom ooze partly with traces of carbonate (highly fragmented foraminifera) and some dropstones in the lower part.



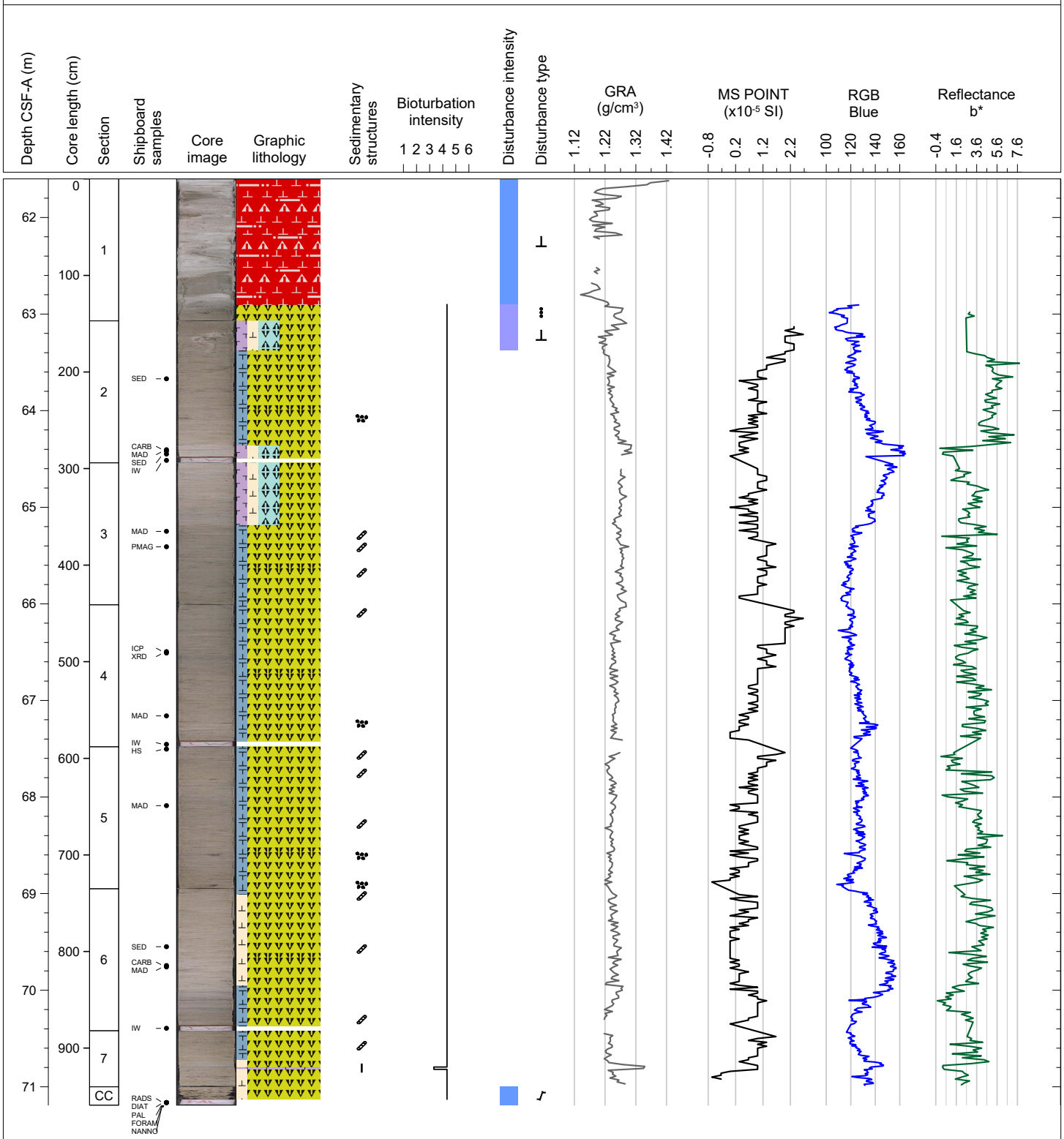
Hole 383-U1539A Core 7H, Interval 52.1-61.34 m (CSF-A)

Light gray to dark gray carbonate-bearing diatom ooze with diatom-rich nannofossil ooze. Dropstones < 2mm and a few diatom mats observed in diatom ooze.



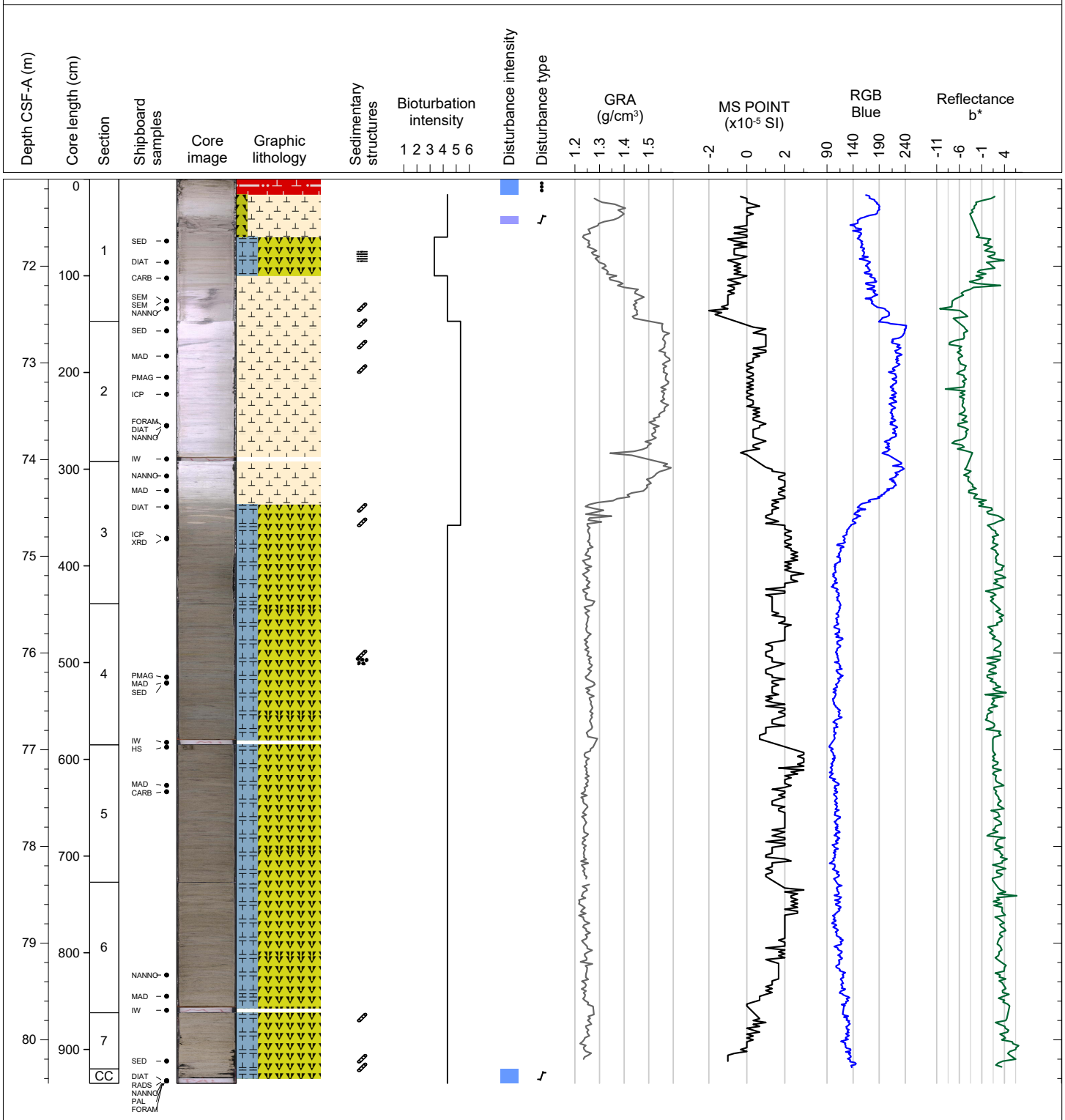
Hole 383-U1539A Core 8H, Interval 61.6-71.19 m (CSF-A)

Greenish gray carbonate-bearing diatom ooze and light gray foraminifera- and nannofossil-bearing diatom ooze. Major to moderate core disturbance observed in Sections 1 and 2.



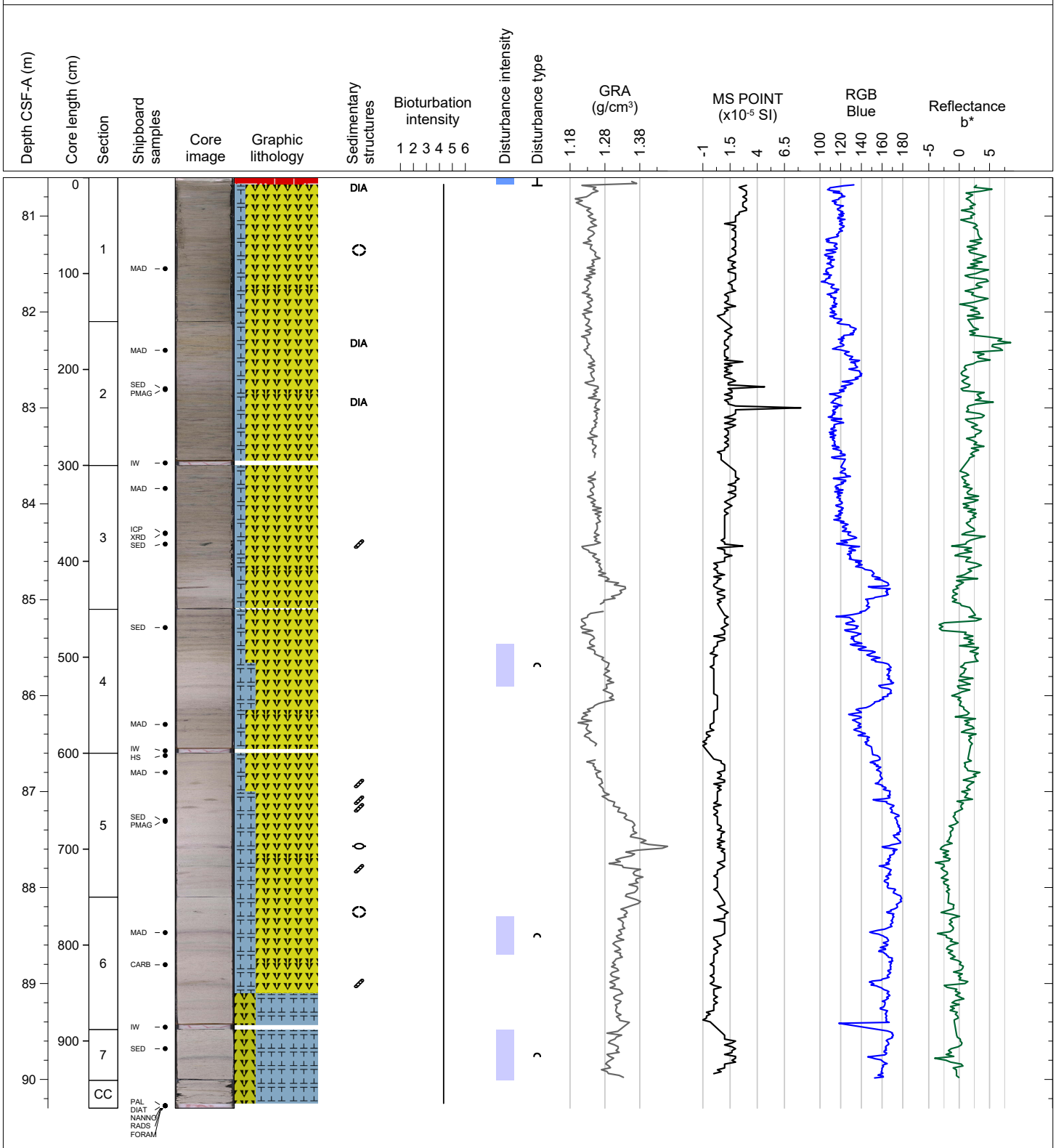
Hole 383-U1539A Core 9H, Interval 71.1-80.45 m (CSF-A)

White nannofossil ooze and light gray carbonate-rich diatom ooze. Lower boundary between nannofossil and diatom ooze is bioturbated with light gray burrows extending into diatom ooze. Dropstones observed in x-ray images in diatom ooze.



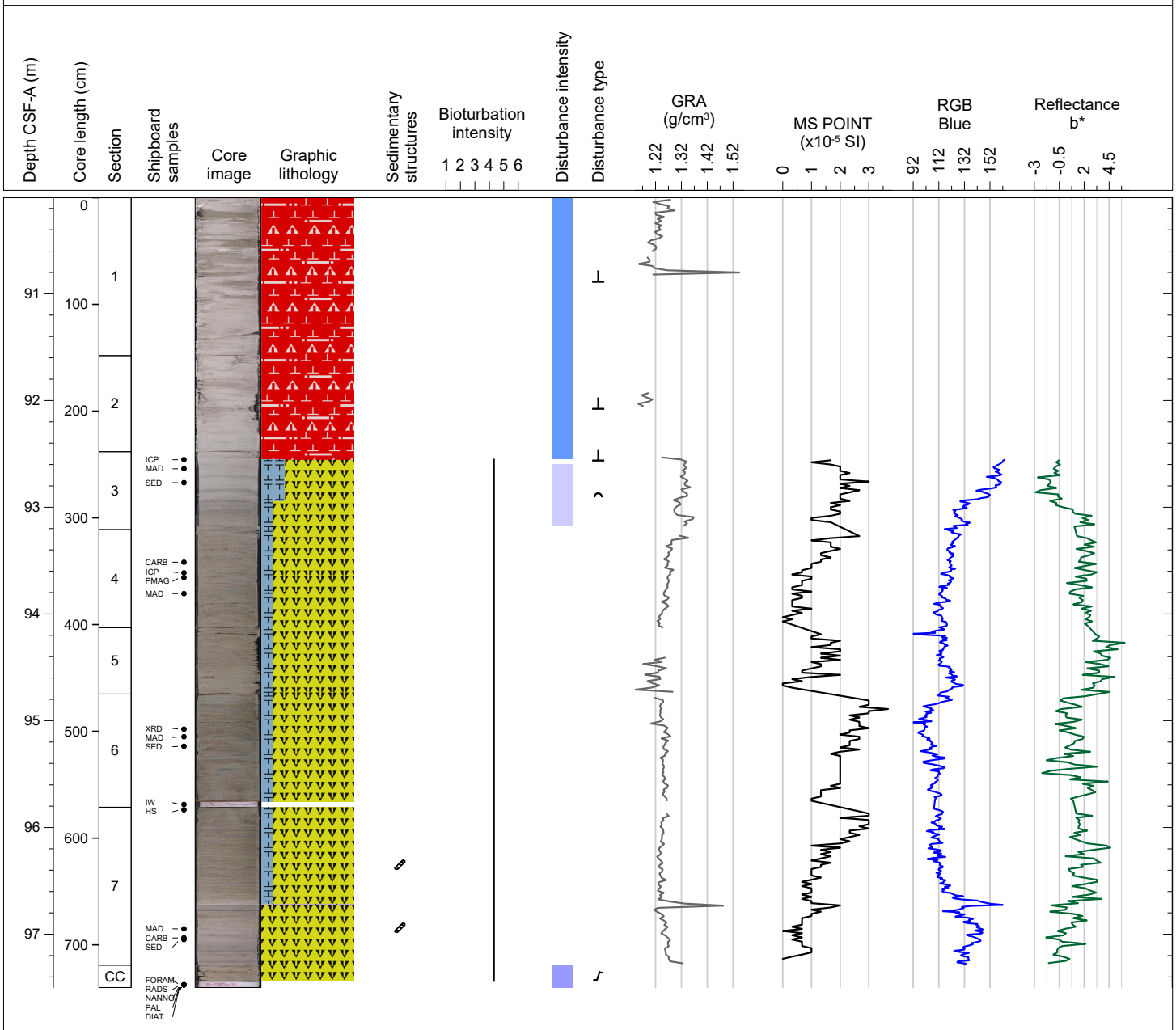
Hole 383-U1539A Core 10H, Interval 80.6-90.3 m (CSF-A)

Mottled greenish gray to yellow gray cm-scale wavey bedded carbonate-bearing diatom ooze, light gray carbonate-rich diatom ooze and diatom-rich calcareous ooze. A few dropstones appear at core surface and in x-rays and mostly within diatom-dominated lithologies.



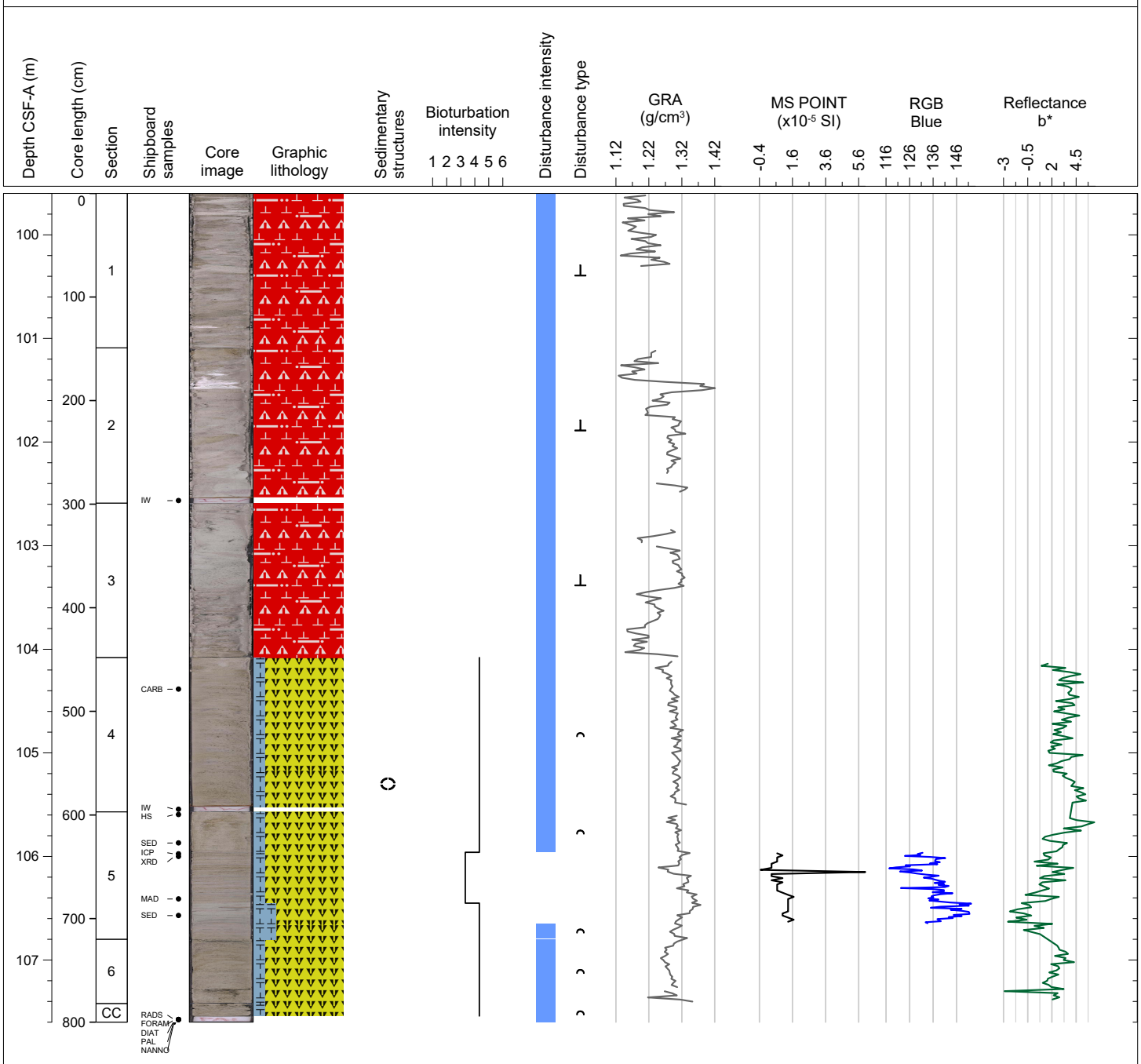
Hole 383-U1539A Core 11H, Interval 90.1-97.5 m (CSF-A)

Mottled greenish gray carbonate-bearing diatom ooze and light greenish gray carbonate-rich diatom ooze. Few dropstones observed throughout the core in x-radiographs. Core disturbance is high in first two sections.



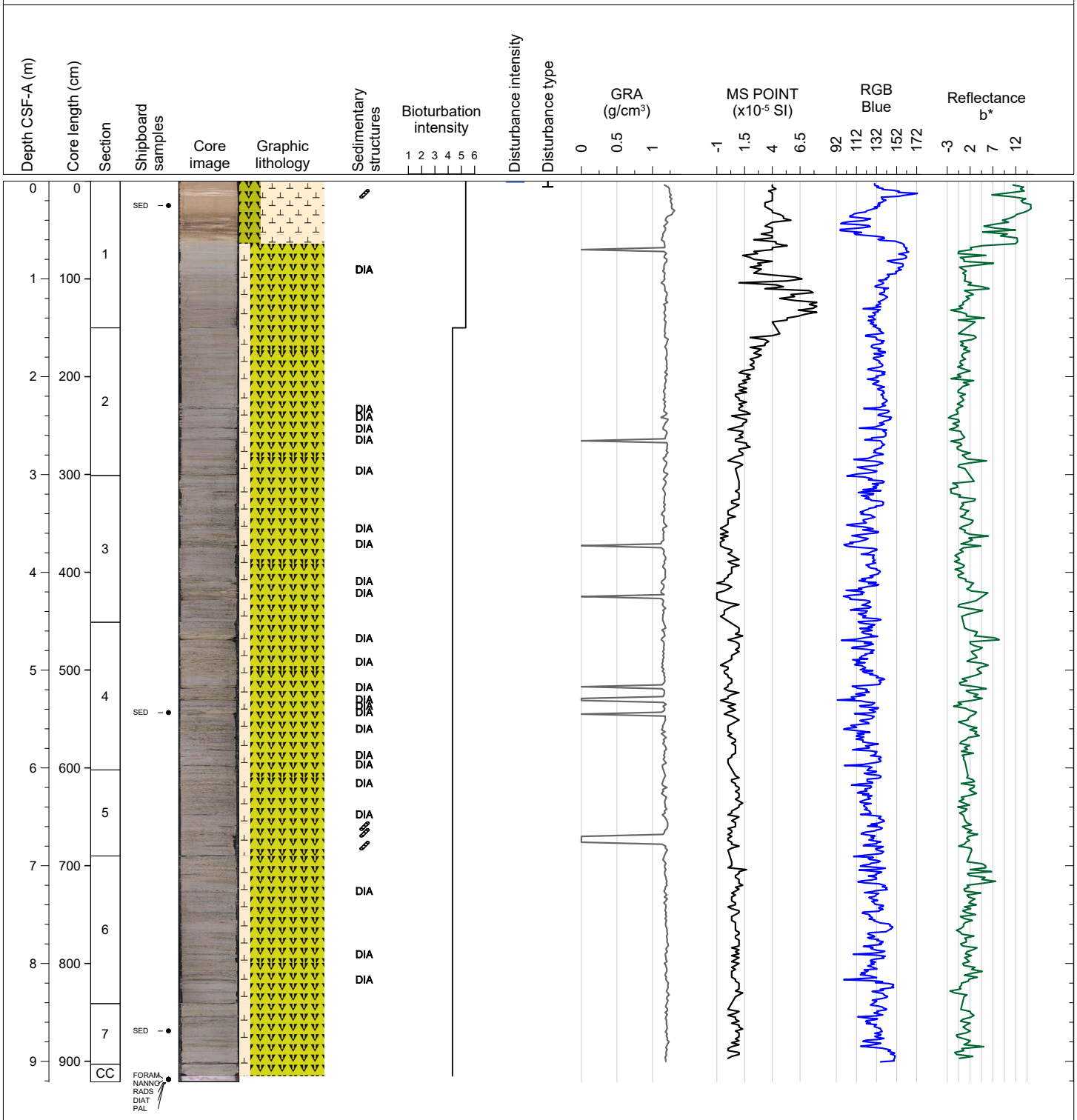
Hole 383-U1539A Core 12H, Interval 99.6-107.6 m (CSF-A)

Fall in coring disturbance in upper three section, soupy structure, strongly deformed with different lithologies and mixed colors in upper part; up-arching, light greenish gray to gray diatom ooze with wavy cm-scale bedding in lower part, some layers with dropstones.



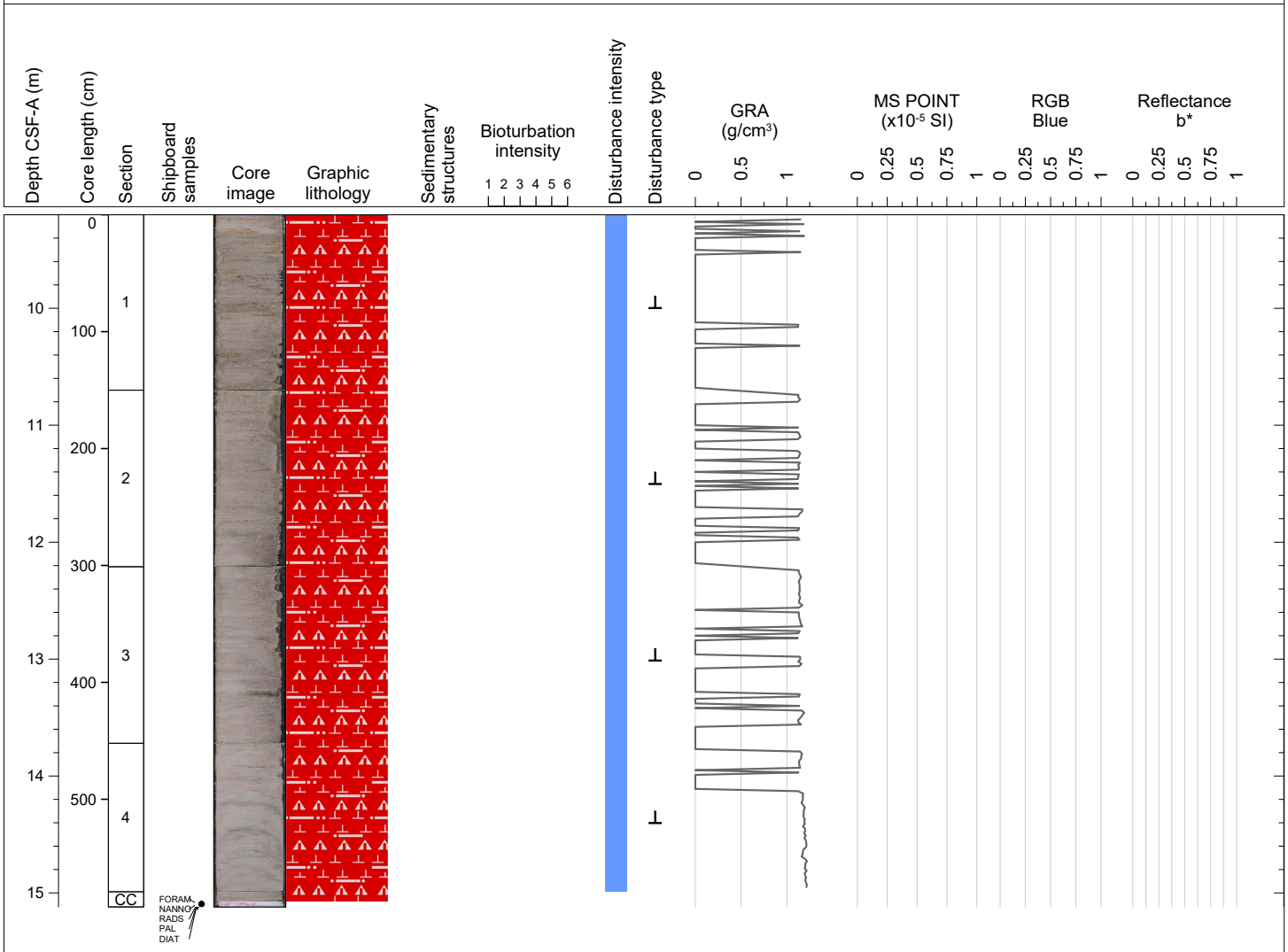
Hole 383-U1539B Core 1H, Interval 0.0-9.21 m (CSF-A)

Very pale brown diatom-rich nannofossil ooze underlain by mottled blue-gray nannofossil bearing diatom ooze. Frequent cm-thick diatom mats within diatom ooze.



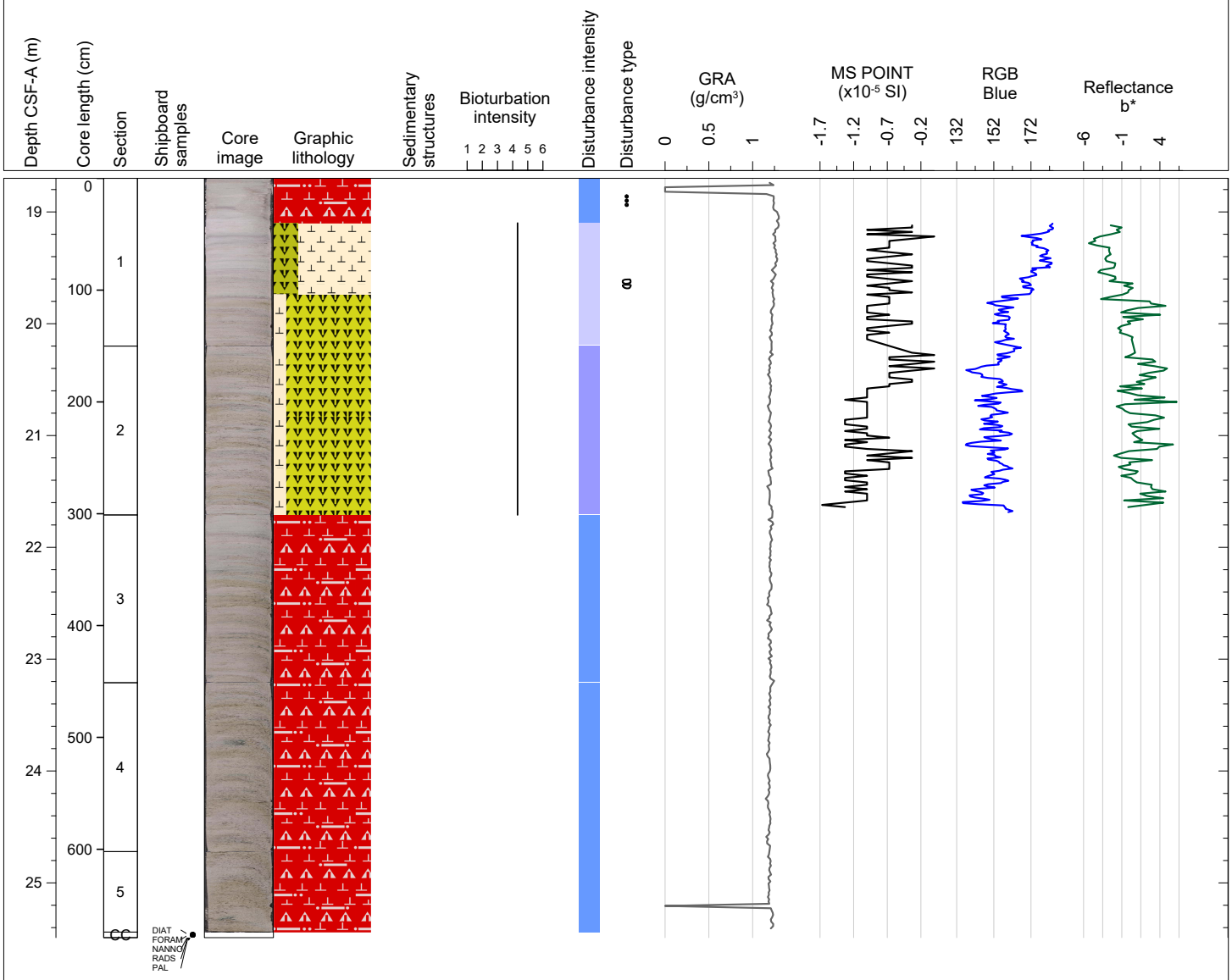
Hole 383-U1539B Core 2H, Interval 9.2-15.12 m (CSF-A)

Chaotic, soupy mixed lithology sediments due to APC missfire during poor weather conditions.



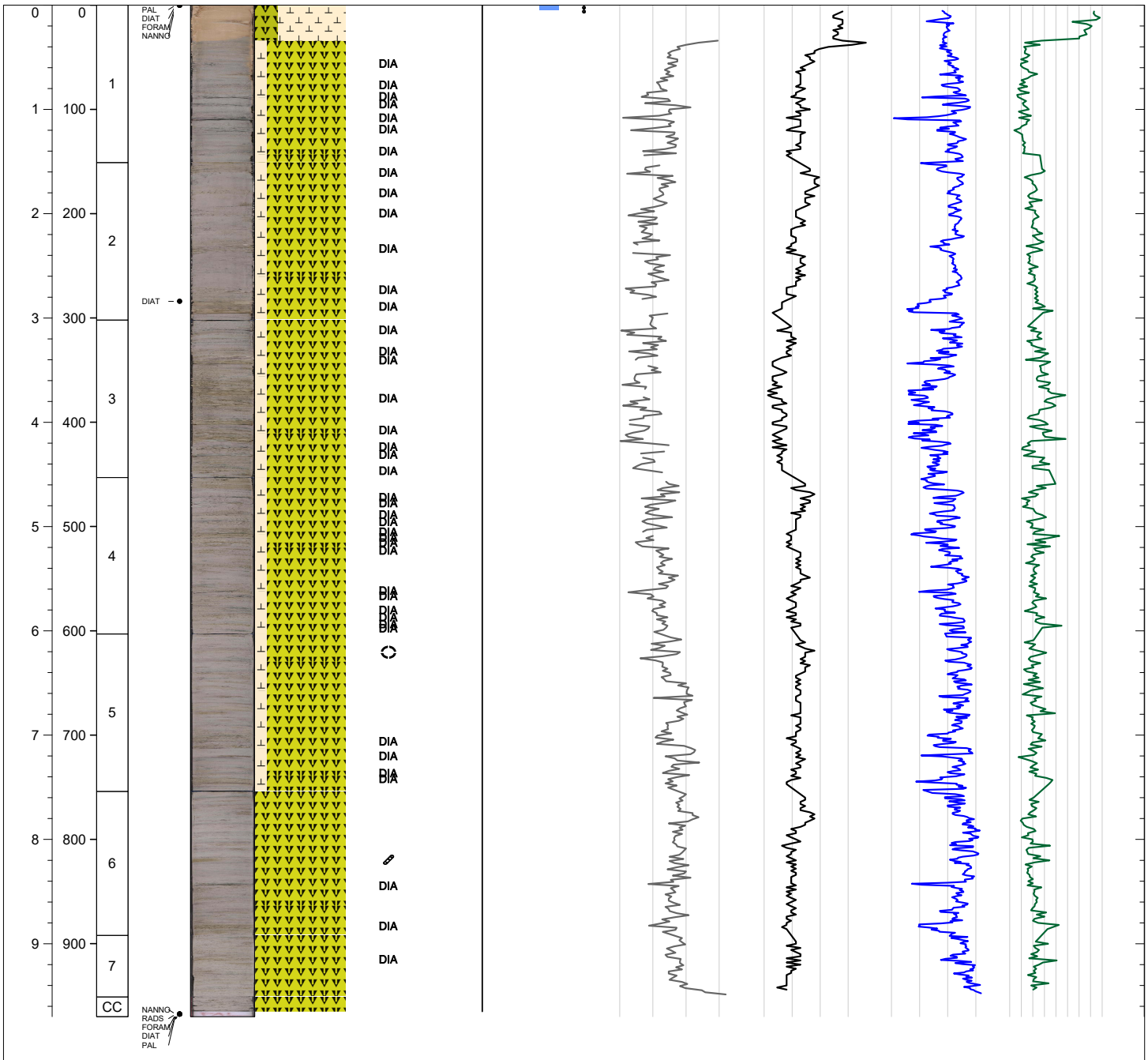
Hole 383-U1539B Core 3H, Interval 18.7-25.49 m (CSF-A)

Light greenish gray nannofossil-bearing diatom ooze and white diatom-rich nannofossil ooze. Diatom ooze exhibits cm-scale wavy laminations in sections 2-4. Significant core disturbance (bowing) in sections 2-4.



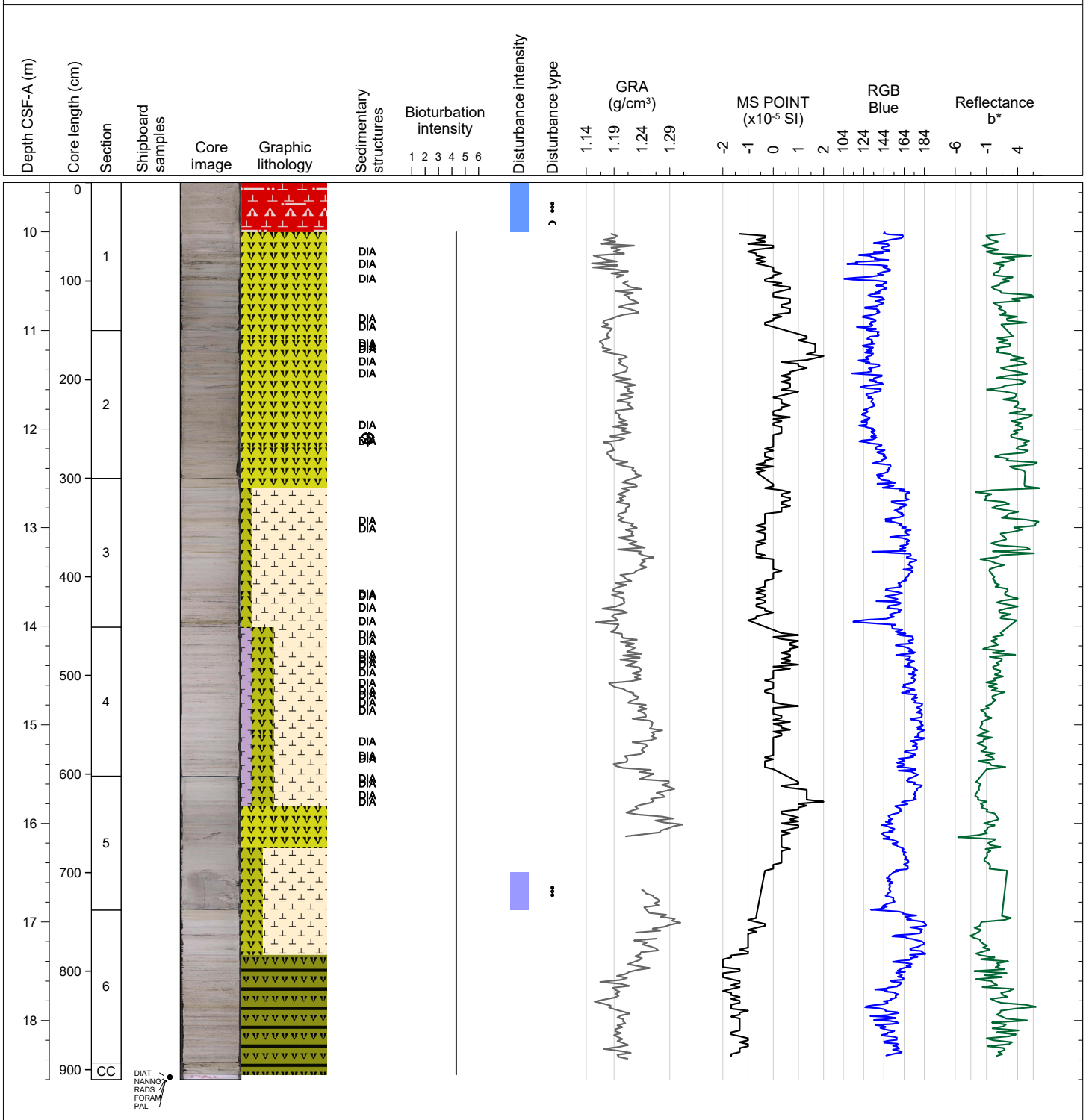
Hole 383-U1539C Core 1H, Interval 0.0-9.7 m (CSF-A)

A greenish gray nannofossil-bearing diatom ooze with prominent cm-scale diatom mats is the primary lithology. Abundant cm-scale wavy bedding and a dropstone was observed in Section 5.The uppermost 34 cm consists of very pale brown diatom-rich nannofossil ooze.



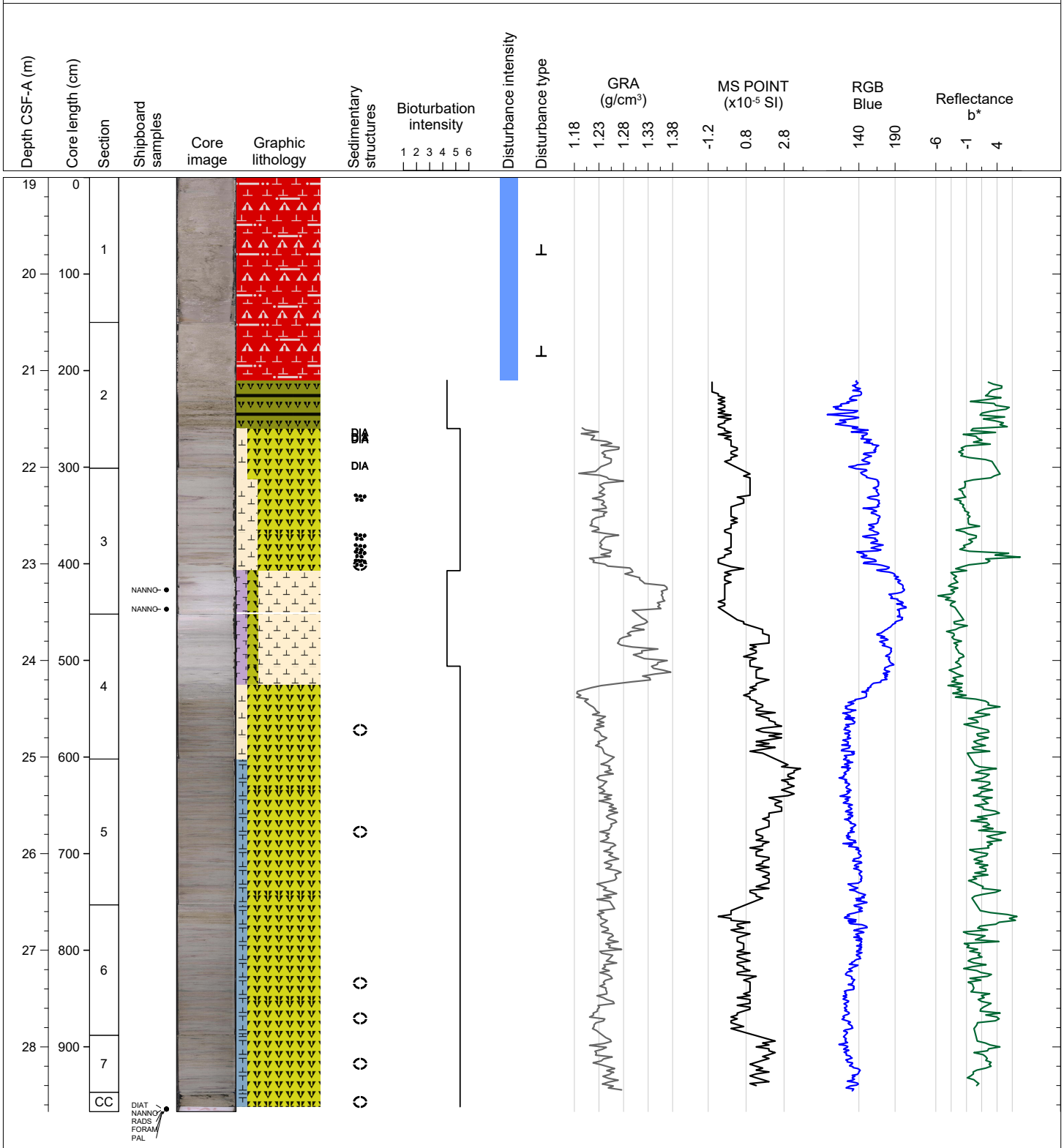
Hole 383-U1539C Core 2H, Interval 9.5-18.6 m (CSF-A)

Very strongly disturbed soupy sediments in the upper 50 cm; light greenish gray to light gray diatom ooze in the upper part, with frequent diatom matts; light gray to white diatom-rich nannofossil ooze in the lower part, with diatom matts; wavy cm-scale bedding.



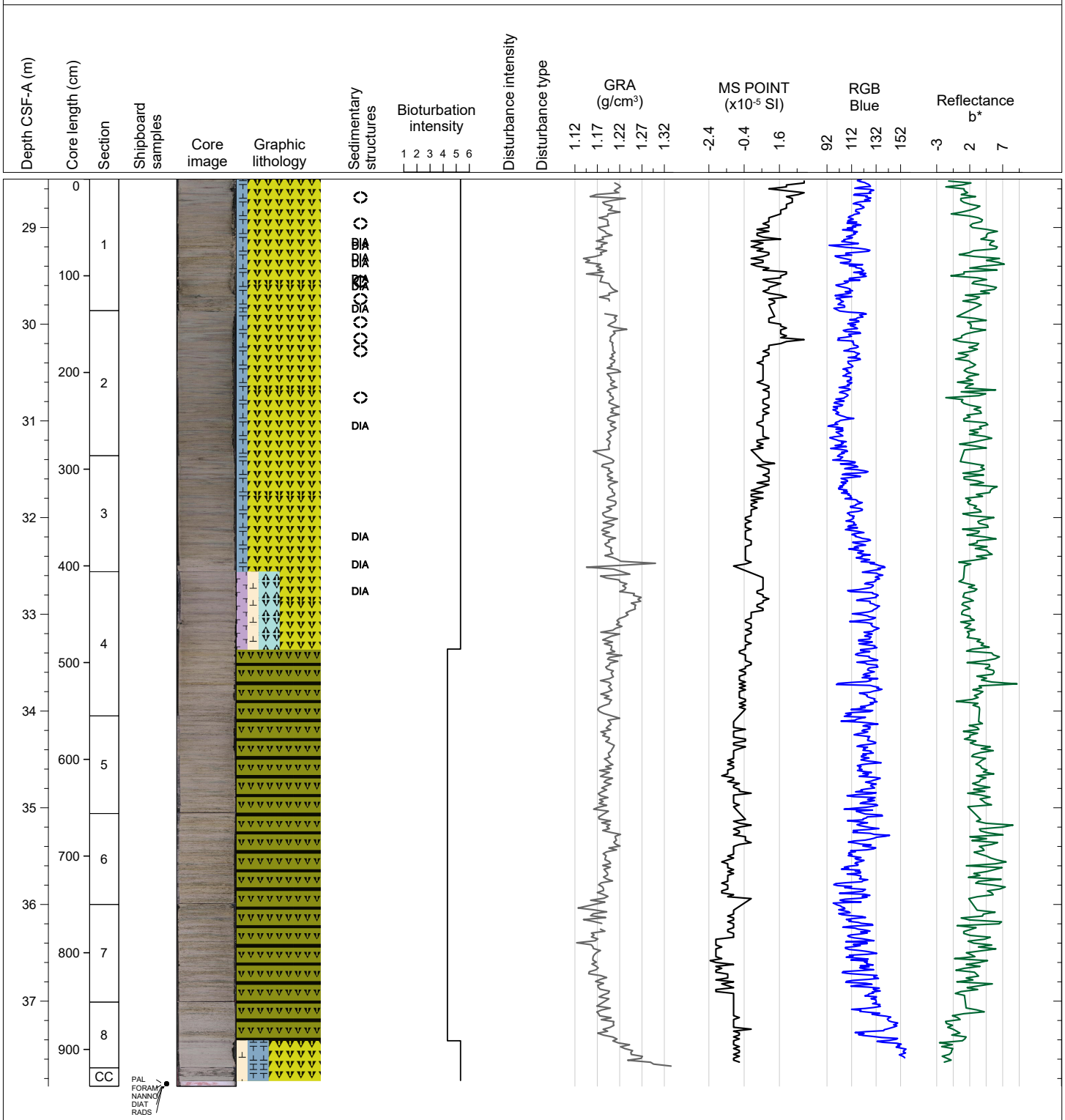
Hole 383-U1539C Core 3H, Interval 19.0-28.67 m (CSF-A)

Very strongly disturbed soupy sediments (fall in) in the upper 210 cm, mainly greenish gray to light gray carbonate-bearing (sometimes nanno-bearing) diatom ooze with occasional to frequent mm-scale dropstones, intercalated by white foram- and diatom-bearing nannofossil ooze in the middle interval(406-460 cm).



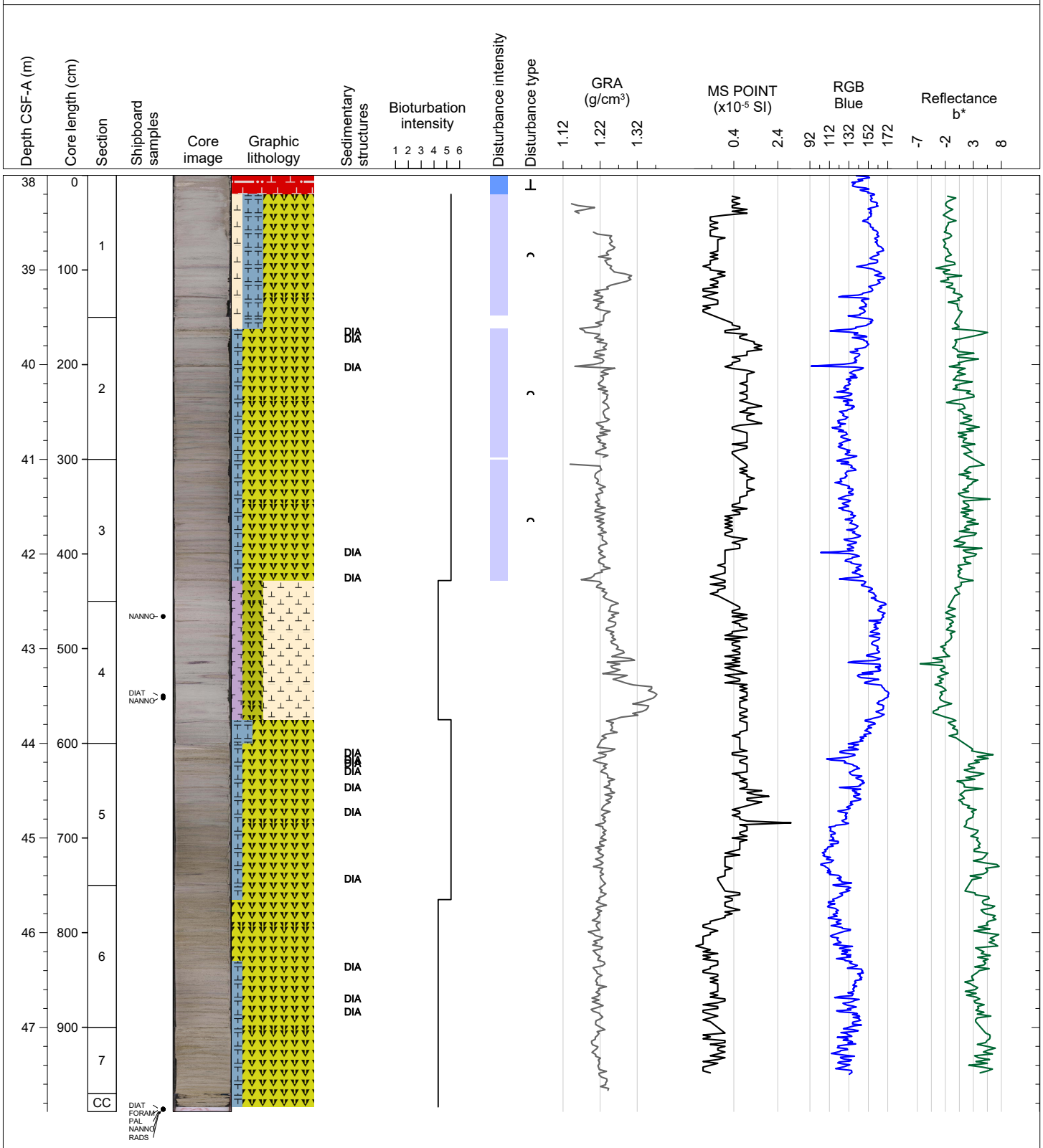
Hole 383-U1539C Core 4H, Interval 28.5-37.88 m (CSF-A)

Mainly greenish gray to light gray carbonate-bearing or foram- and nannofossil-bearing diatom ooze; with occasional to frequent diatom matts, with some dropstones; mottled by dark greenish colors due to diagenesis; transition to light gray carbonate-rich diatom ooze in the lower 40 cm layer.

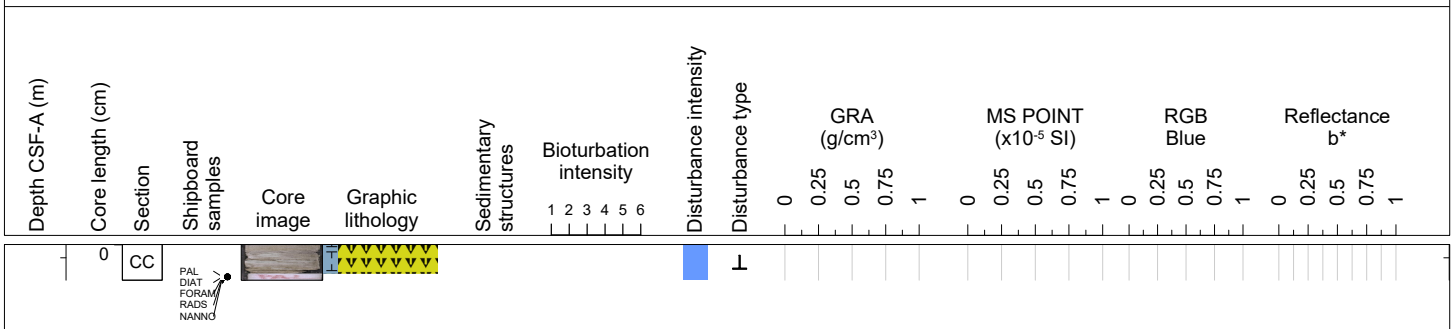


Hole 383-U1539C Core 5H, Interval 38.0-47.89 m (CSF-A)

Fall-in and highly disturbed in the upper 20 cm; mild up-arching deformation (20) in Section 1-3; mainly greenish to light gray diatom ooze with occasional to frequent diatom matts; intercalated by white foraminifer-bearing diatom-rich nannofossil ooze in Section 3 (128-150 cm) and Section 4 (0-125 cm).

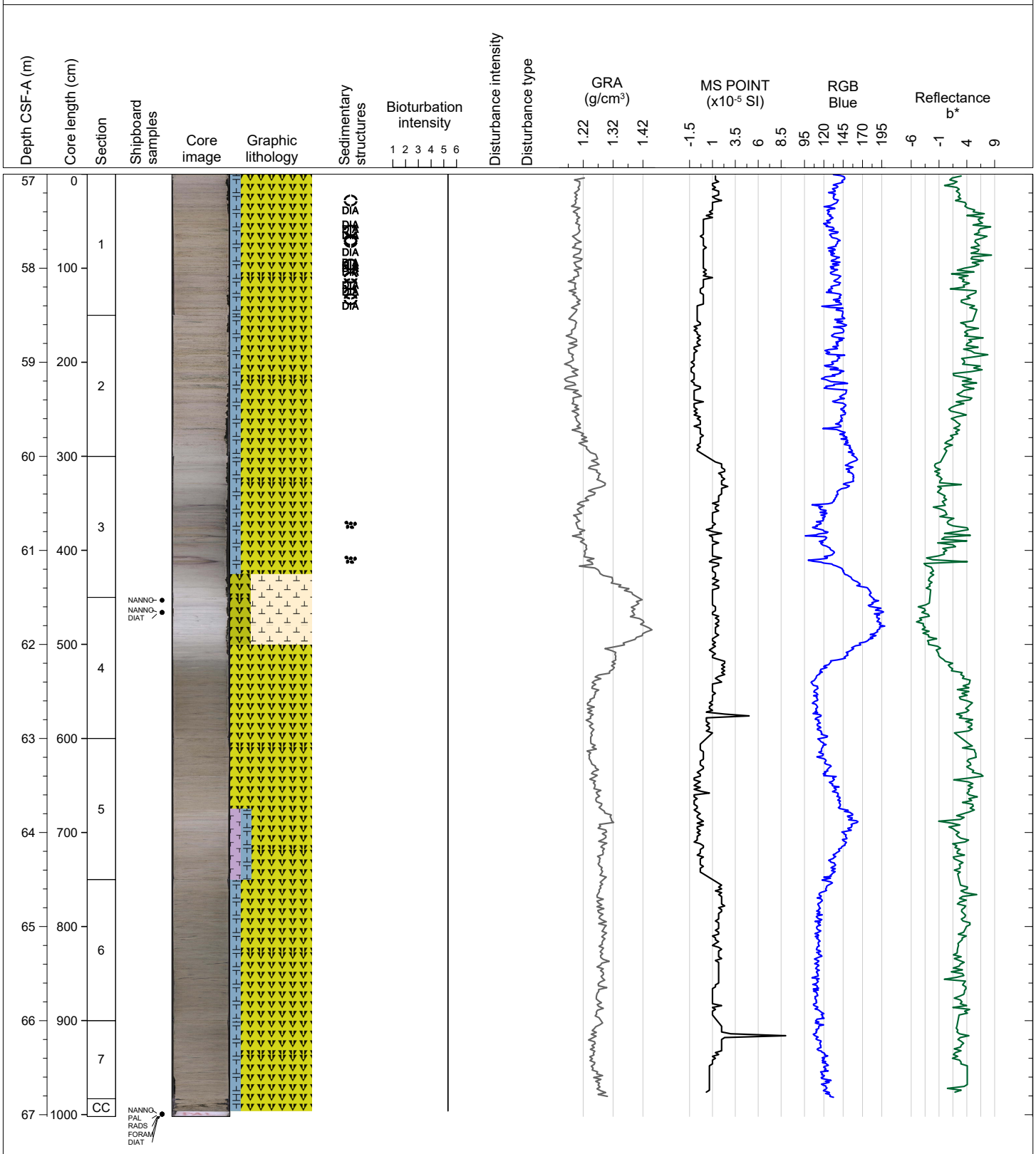


Hole 383-U1539C Core 6H, Interval 47.5-47.77 m (CSF-A)



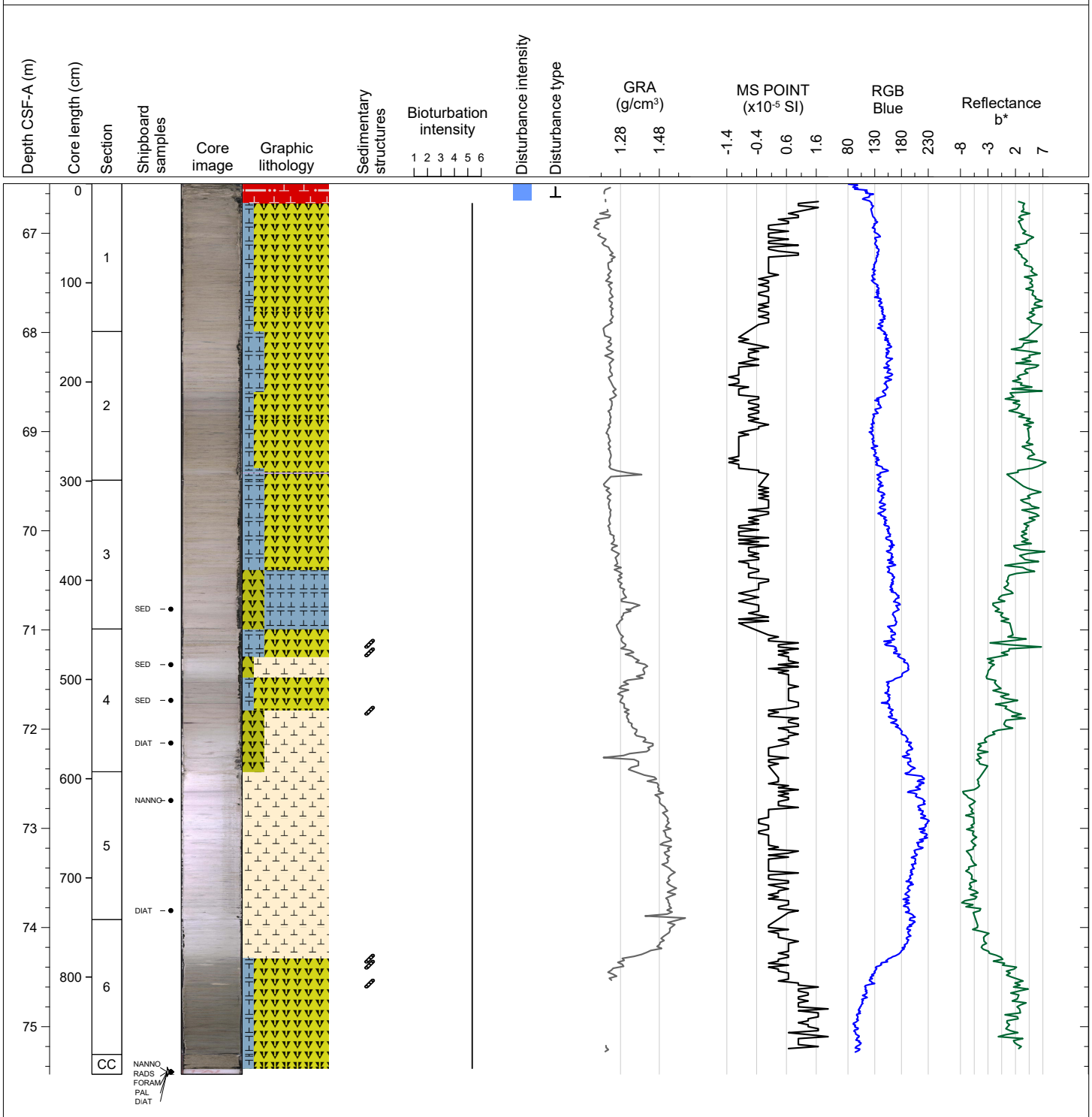
Hole 383-U1539C Core 7H, Interval 57.0-67.02 m (CSF-A)

Light greenish gray carbonate-bearing diatom ooze with wavy cm-scale bedding is the primary lithology. A white diatom-rich nannofossil ooze with weak wavy bedding appears in Sections 6 and 7.



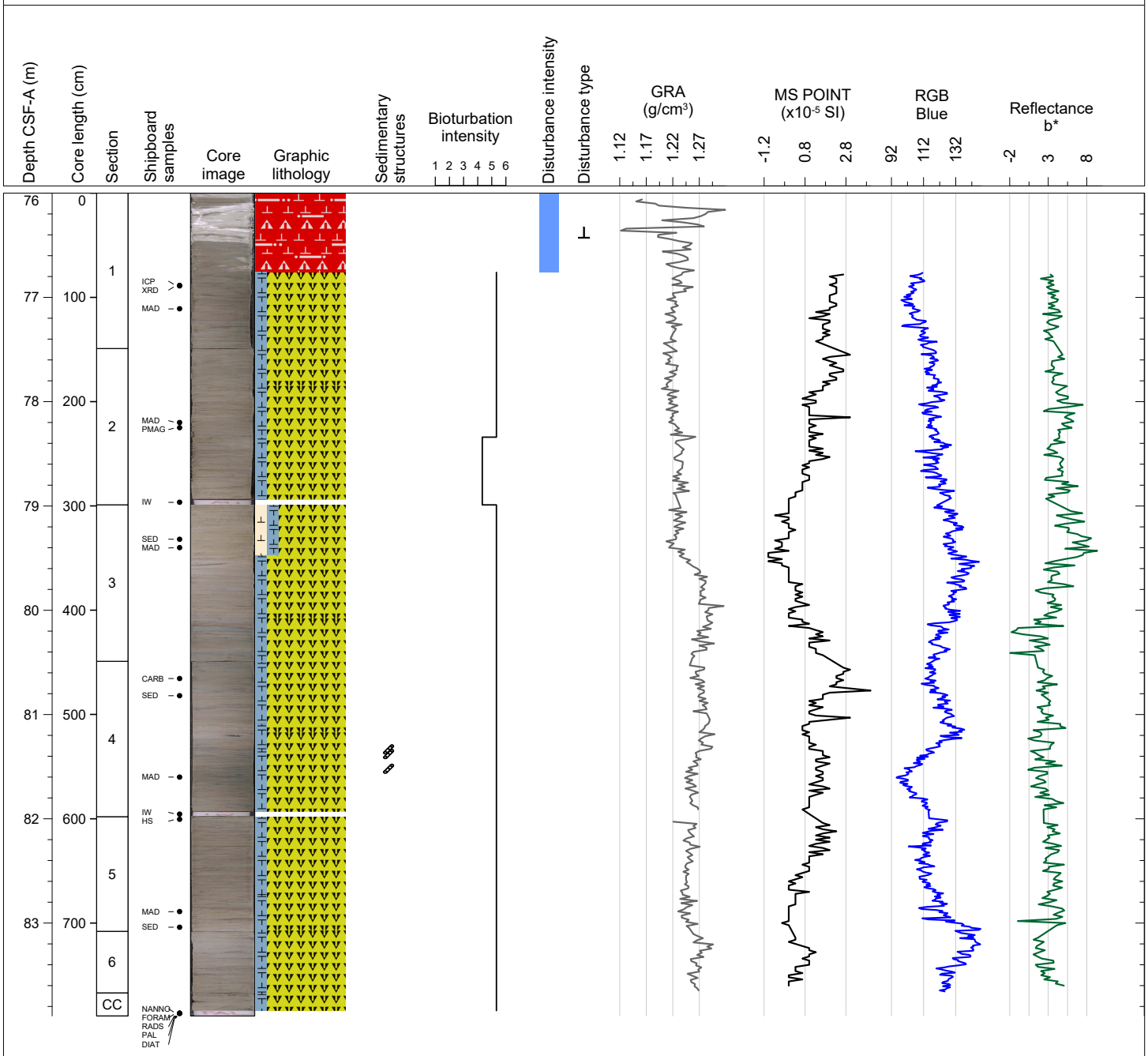
Hole 383-U1539C Core 8H, Interval 66.5-75.48 m (CSF-A)

Light gray carbonate-bearing and carbonate-rich diatom ooze with dark green mottles with white diatom-rich nannofossil ooze. Dropstones visible in x-ray images within ditaom ooze. Strong biotrubation with some bioturbated boundary between nannofossil and diatom ooze.



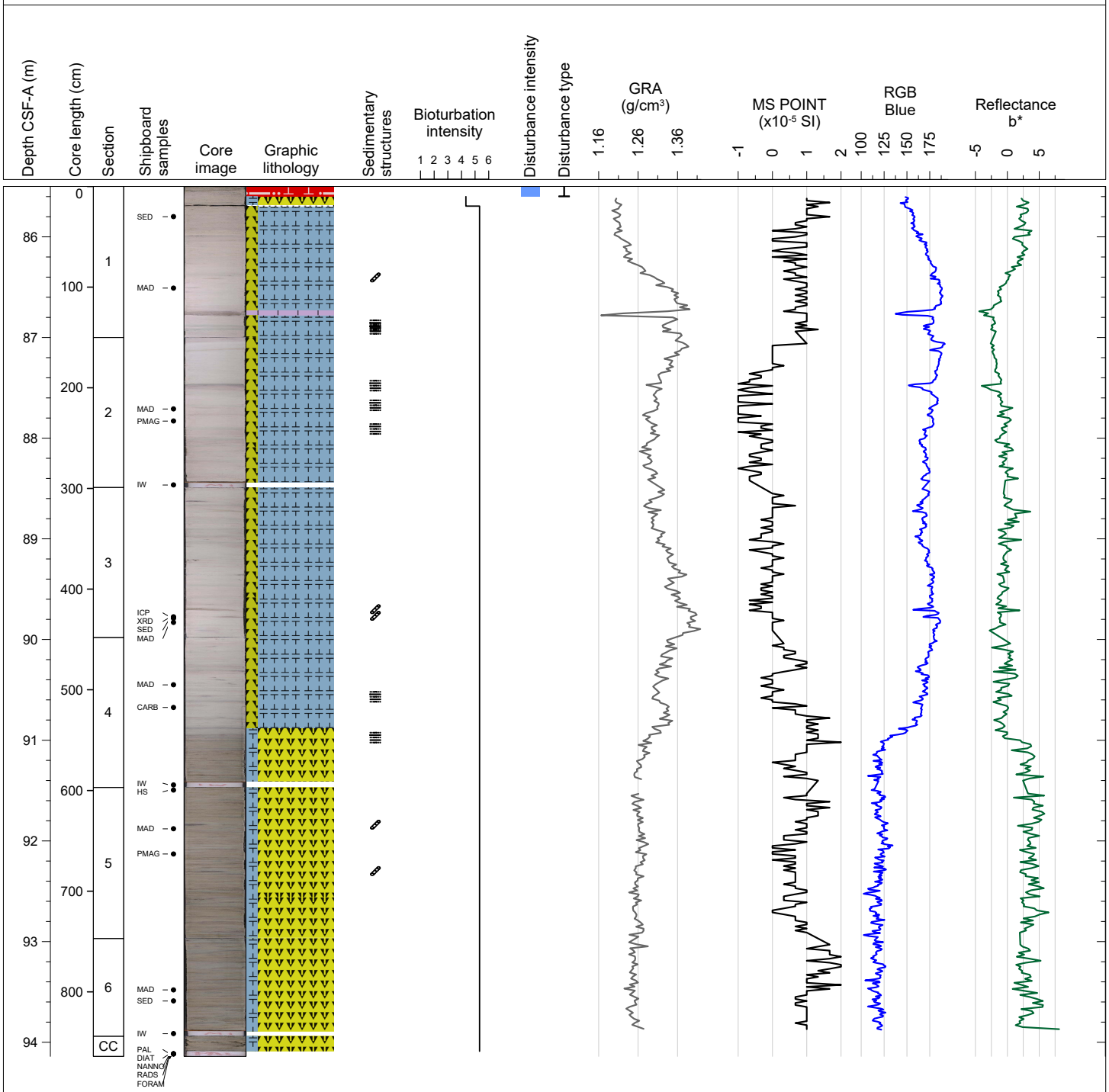
Hole 383-U1539C Core 9H, Interval 76.0-83.89 m (CSF-A)

Greenish gray carbonate-bearing diatom ooze with dark greenish gray mottling. Some dm sections of faint wavy laminae.



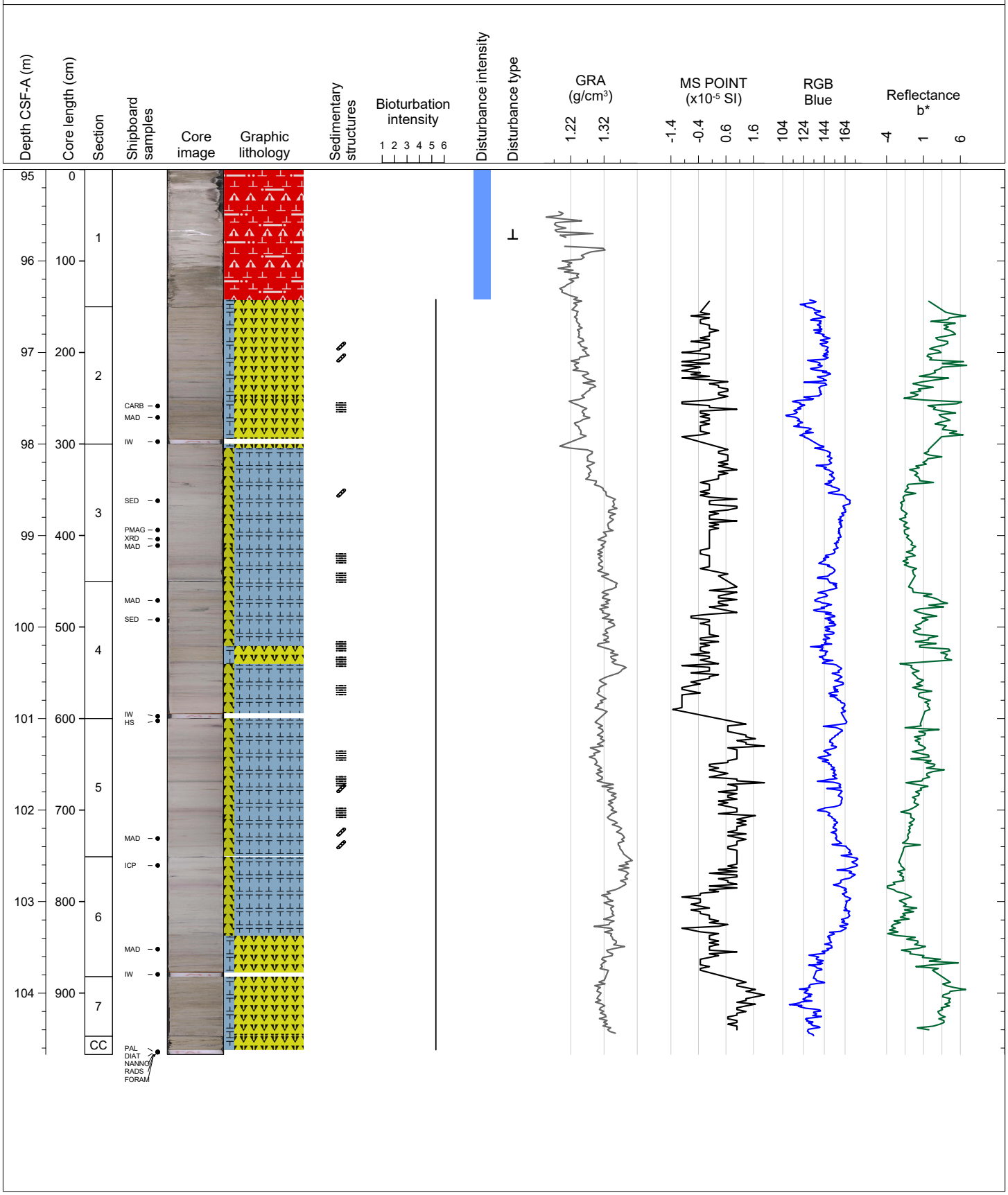
Hole 383-U1539C Core 10H, Interval 85.5-94.14 m (CSF-A)

Greenish gray carbonate-bearing diatom ooze and white to light gray diatom-bearing calcareous ooze.



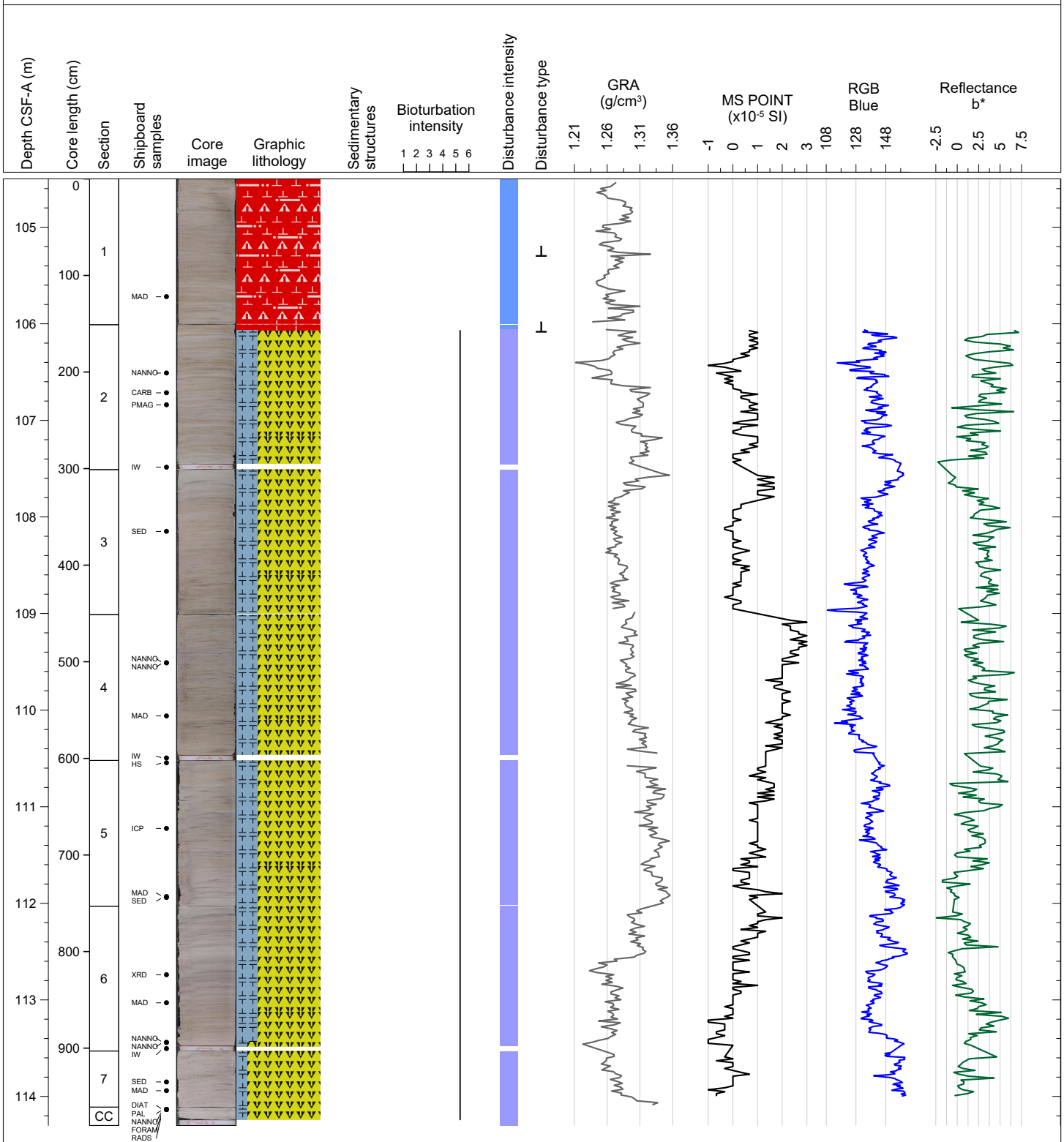
Hole 383-U1539C Core 11H, Interval 95.0-104.67 m (CSF-A)

Greenish gray carbonate-bearing diatom ooze, light gray diatom-rich calcareous ooze and white to light gray diatom-bearing calcareous ooze. Core section 1 has high drilling disturbance.



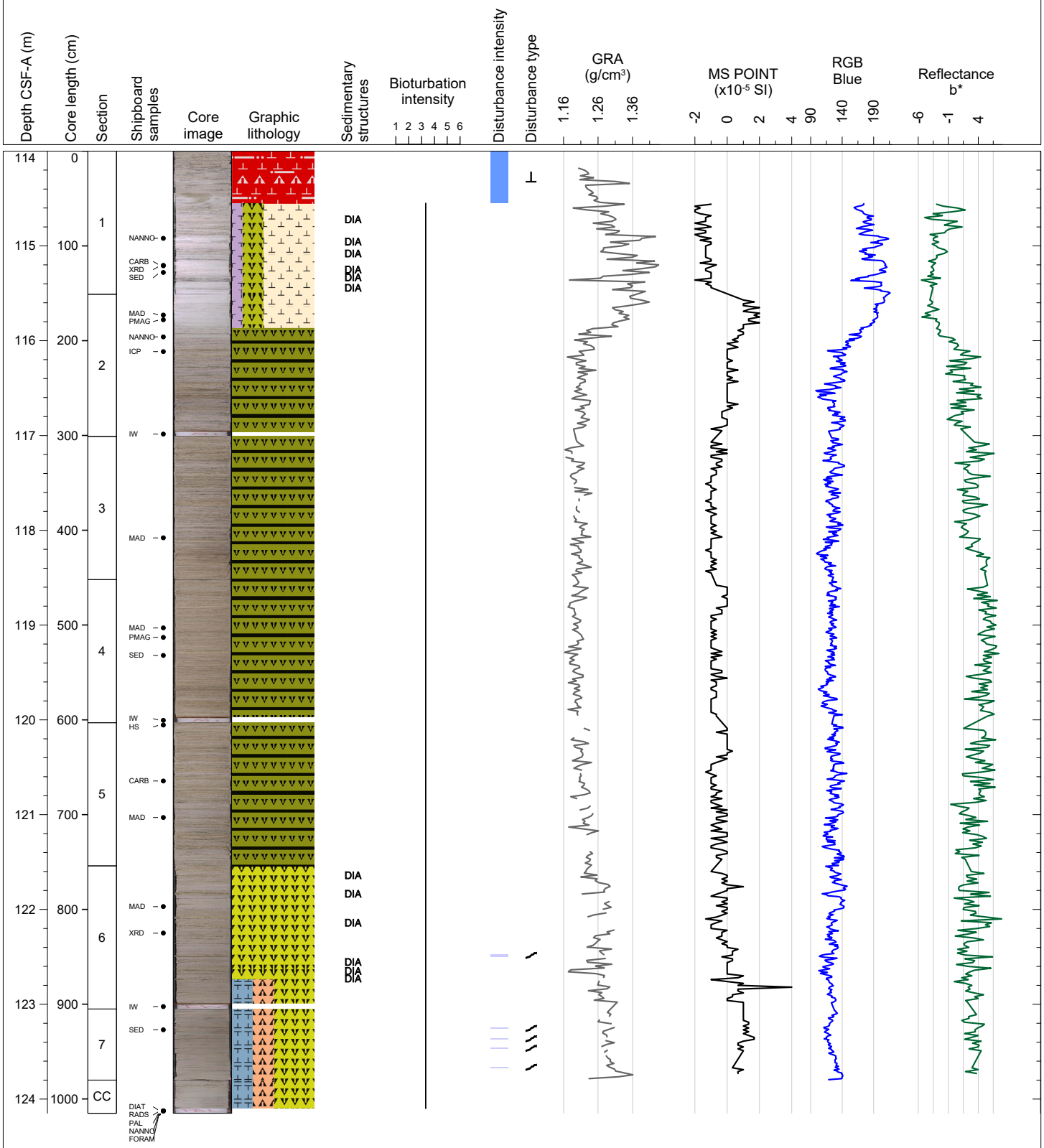
Hole 383-U1539C Core 12H, Interval 104.5-114.3 m (CSF-A)

Greenish gray carbonate-bearing diatom ooze and light gray carbonate-rich diatom ooze. Core section 1 has high drilling disturbance; core sections 2-7 exhibit up arching stratigraphy with significant flow lines along left side near liner.



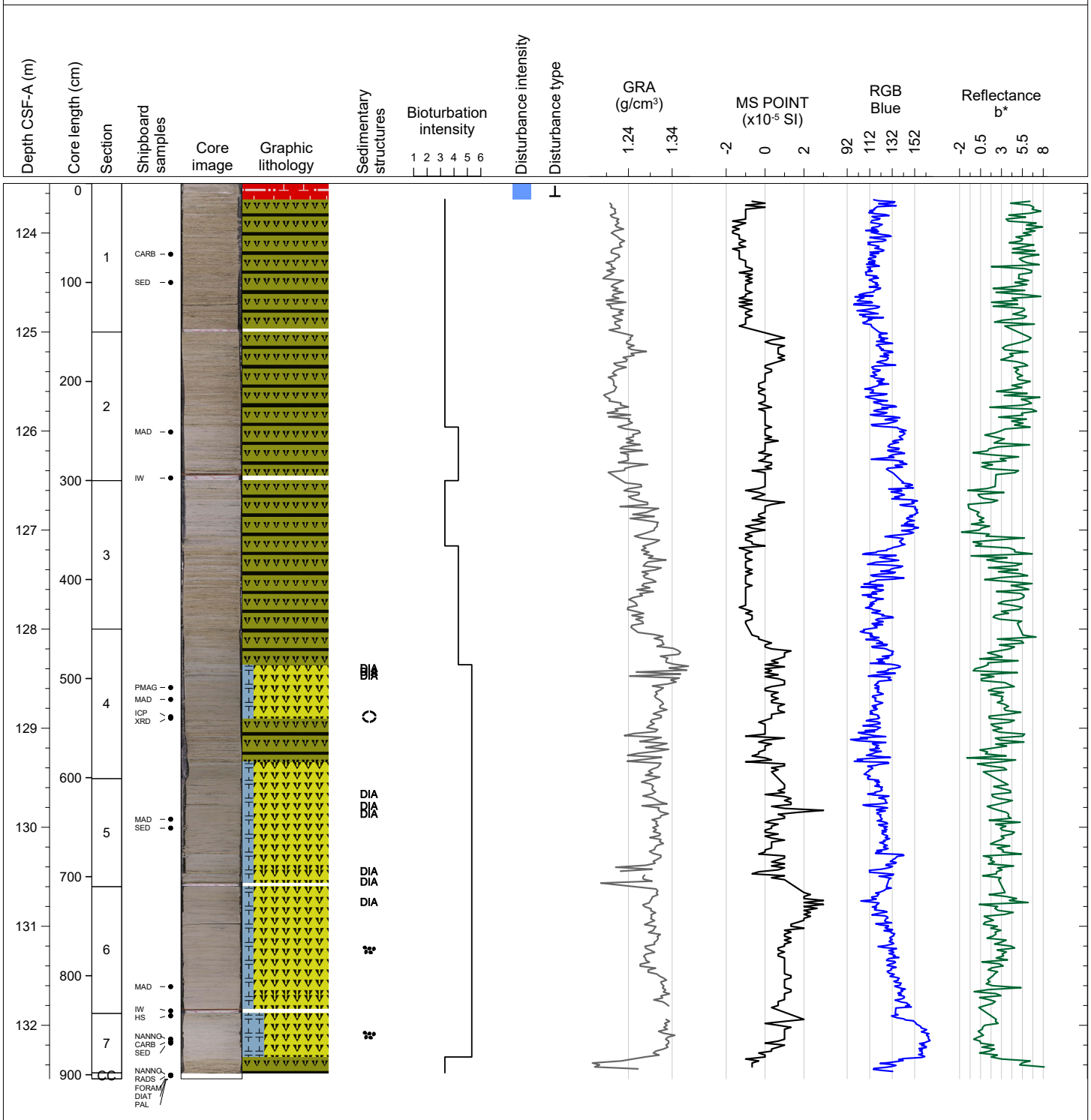
Hole 383-U1539C Core 13H, Interval 114.0-124.15 m (CSF-A)

Light gray to light greenish gray diatom ooze with calcareous debris and frequent cm-scale diatom mats is the primary lithology. A white to light greenish gray diatom-rich calcareous ooze is less extensive and appears in Sections 1 and 2.



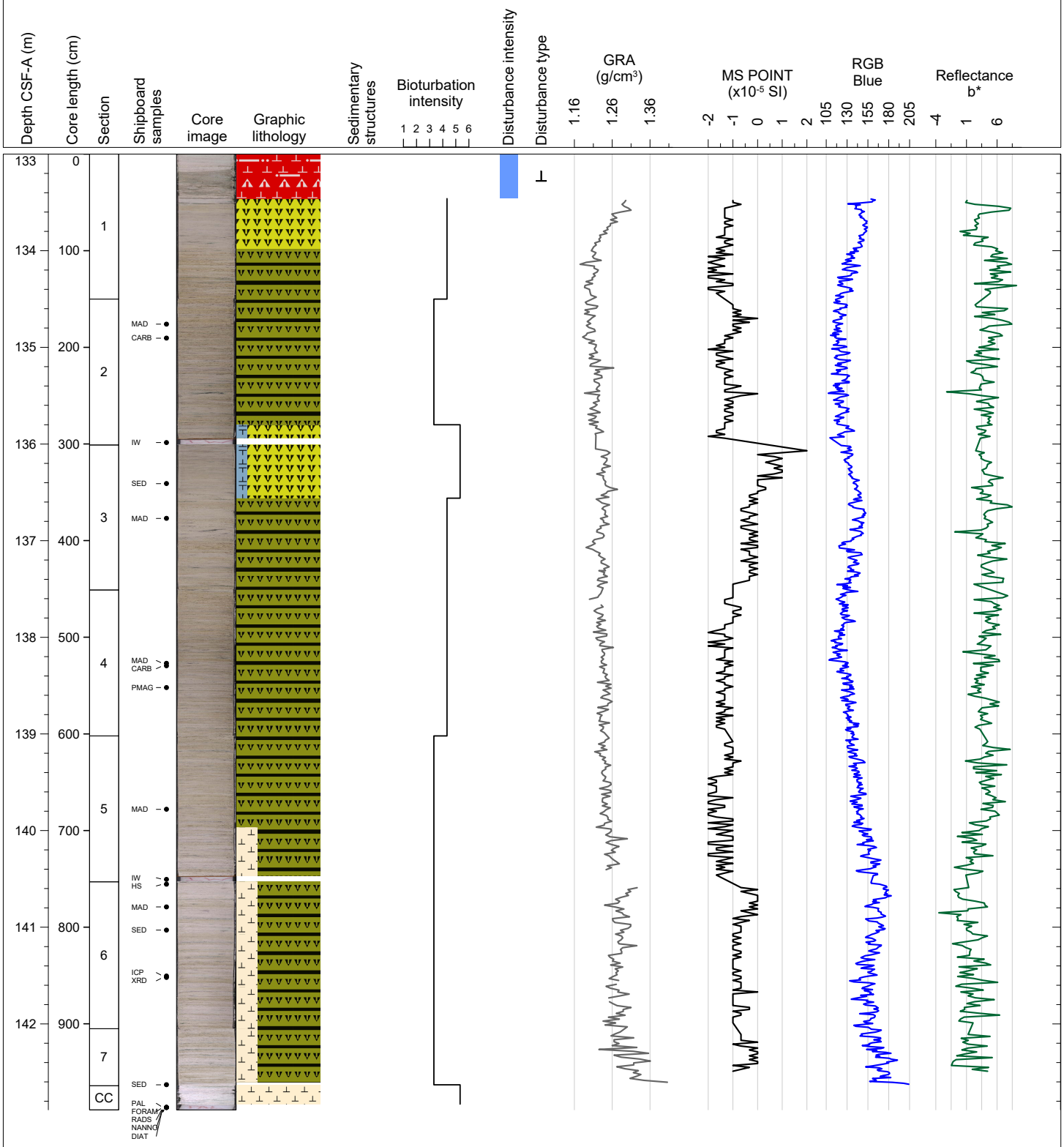
Hole 383-U1539C Core 14H, Interval 123.5-132.54 m (CSF-A)

Fall in, soupy, highly disturbed in upper 16 cm with many IRD; light yellowish brown to light gray diatom ooze with nannofossil in Section 1-3 and 4 (0-36 cm), intercalated by very frequent diatom matts; then transition to light greenish gray carbonate-bearing diatom ooze with occasional to frequent diatom matts in Section 4 (36-150 cm) and 5-6; white carbonate-rich diatom ooze (0-44 cm) and light yellowish diatom ooze with nannofossil (44-60 cm) in Section 7.



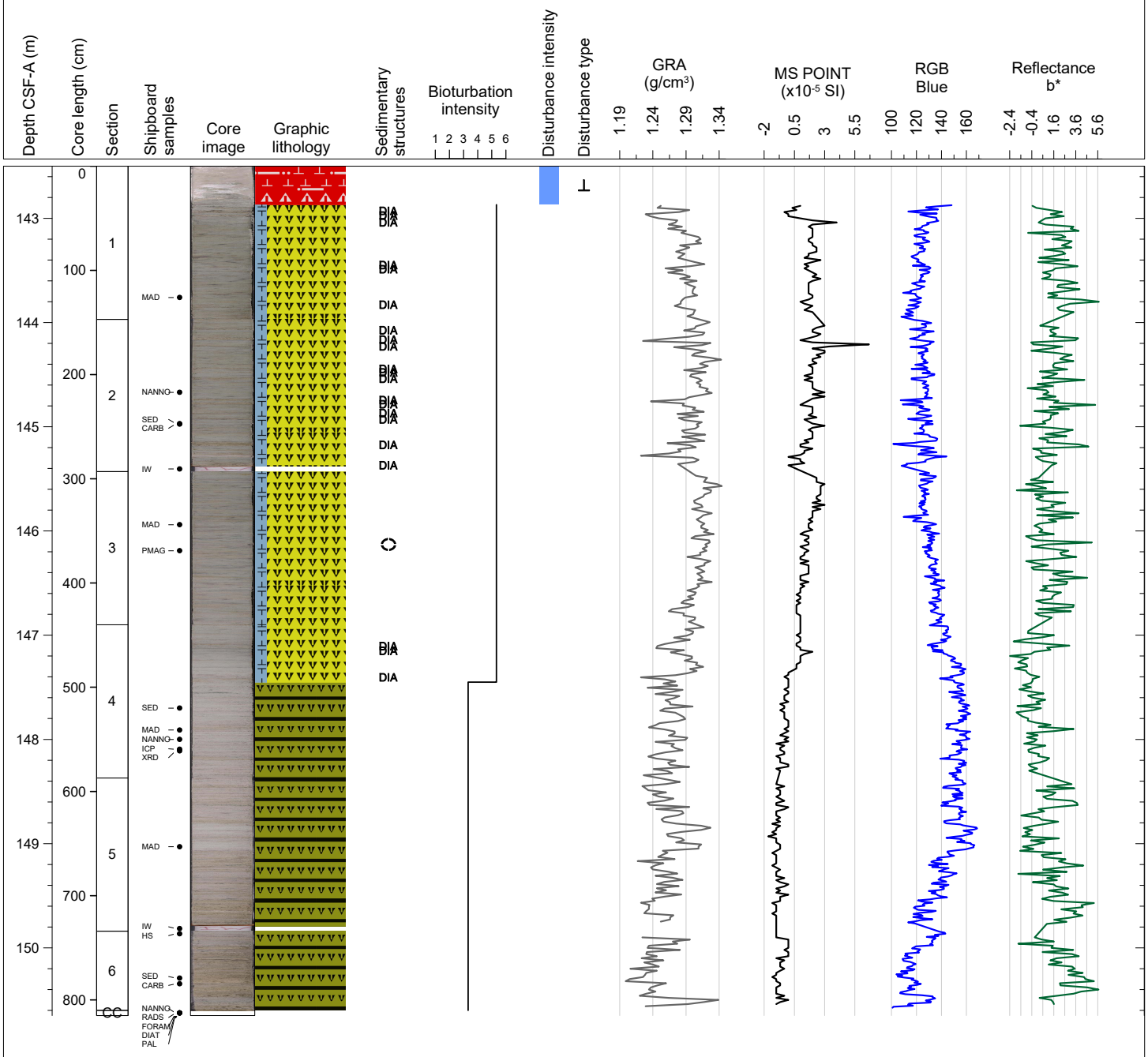
Hole 383-U1539C Core 15H, Interval 133.0-142.89 m (CSF-A)

Fall in, soupy, highly disturbed in upper 46 cm with some IRD at the base; mainly light greenish gray to gray diatom ooze with frequent diatom matts, mottled by dark greenish colors due to diagenesis, occasionally intercalated by nannofossil ooze in the lower sections; transition to white nannofossil ooze in lowermost 20 cm of the cc.



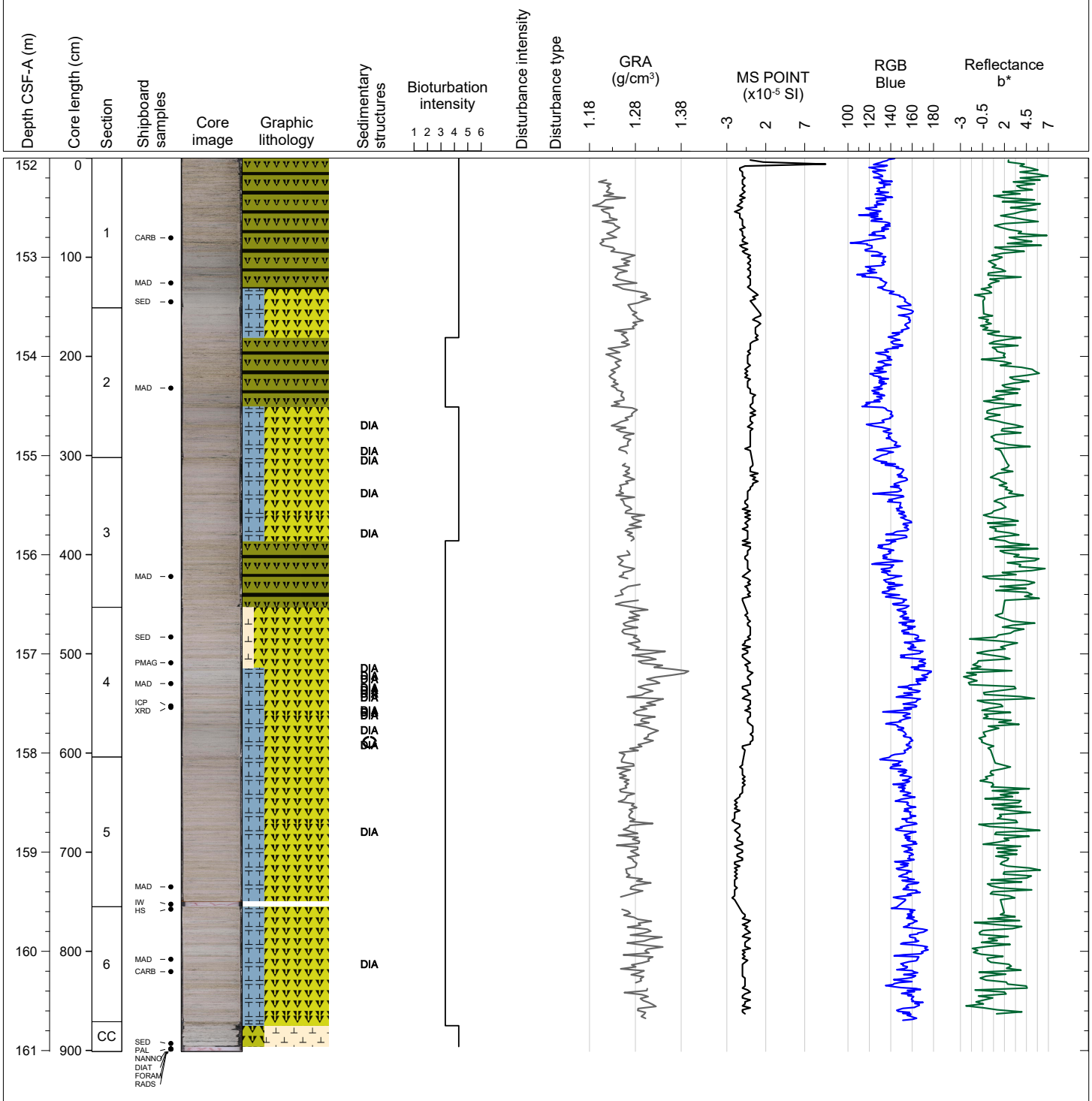
Hole 383-U1539C Core 16H, Interval 142.5-150.65 m (CSF-A)

Fall in, soupy, highly disturbed in upper 37 cm with some IRD at the base; mainly greenish gray to light gray diatom ooze with frequent diatom matts, mottled by dark greenish to black colors due to diagenesis



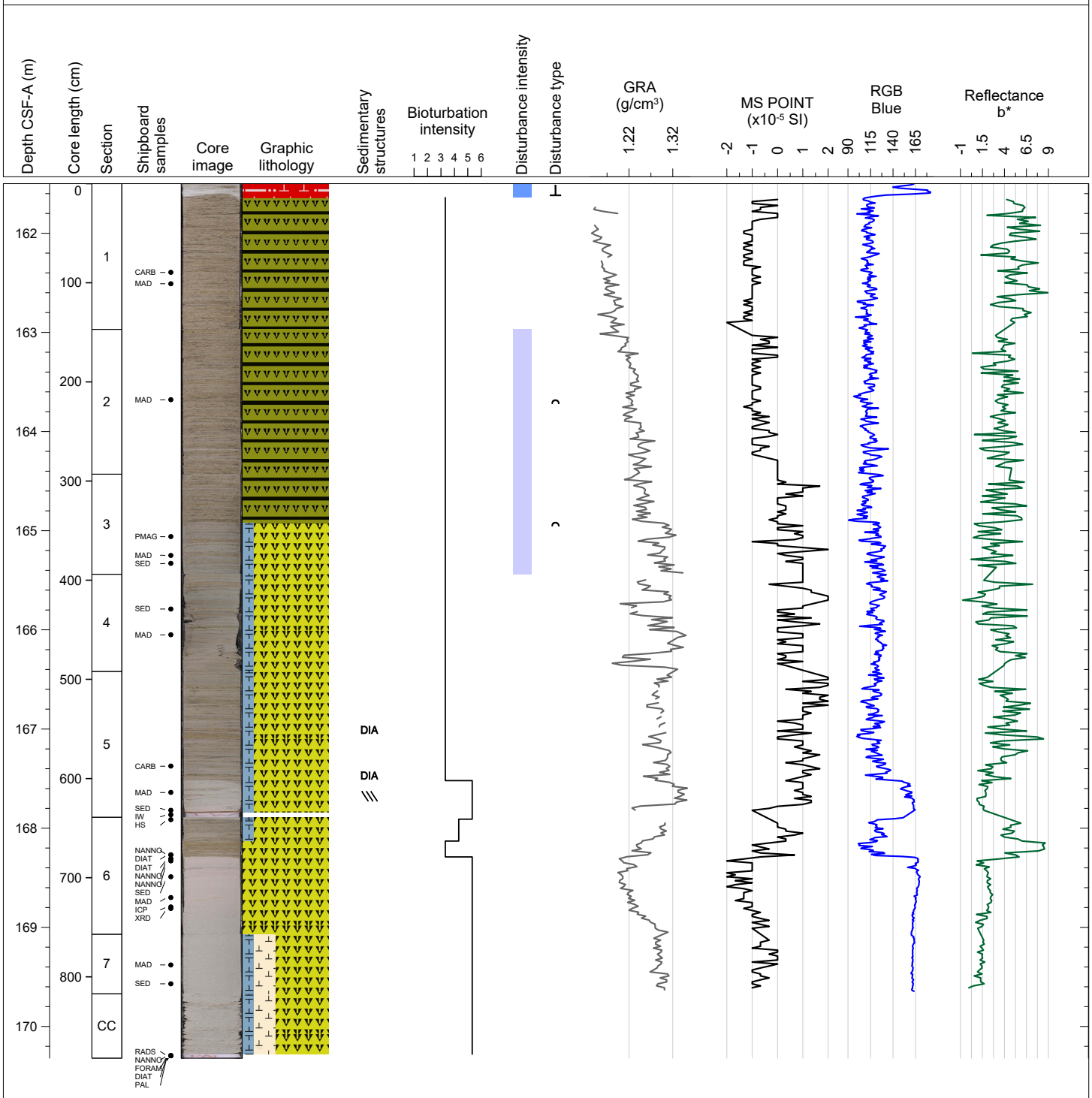
Hole 383-U1539C Core 17H, Interval 152.0-161.01 m (CSF-A)

Light greenish gray to light gray diatom ooze with very frequent diatom matts, mottled by dark greenish to black colors due to diagenesis, transition to white diatom-rich nannofossil ooze in the lowermost 20 cm of this cc.



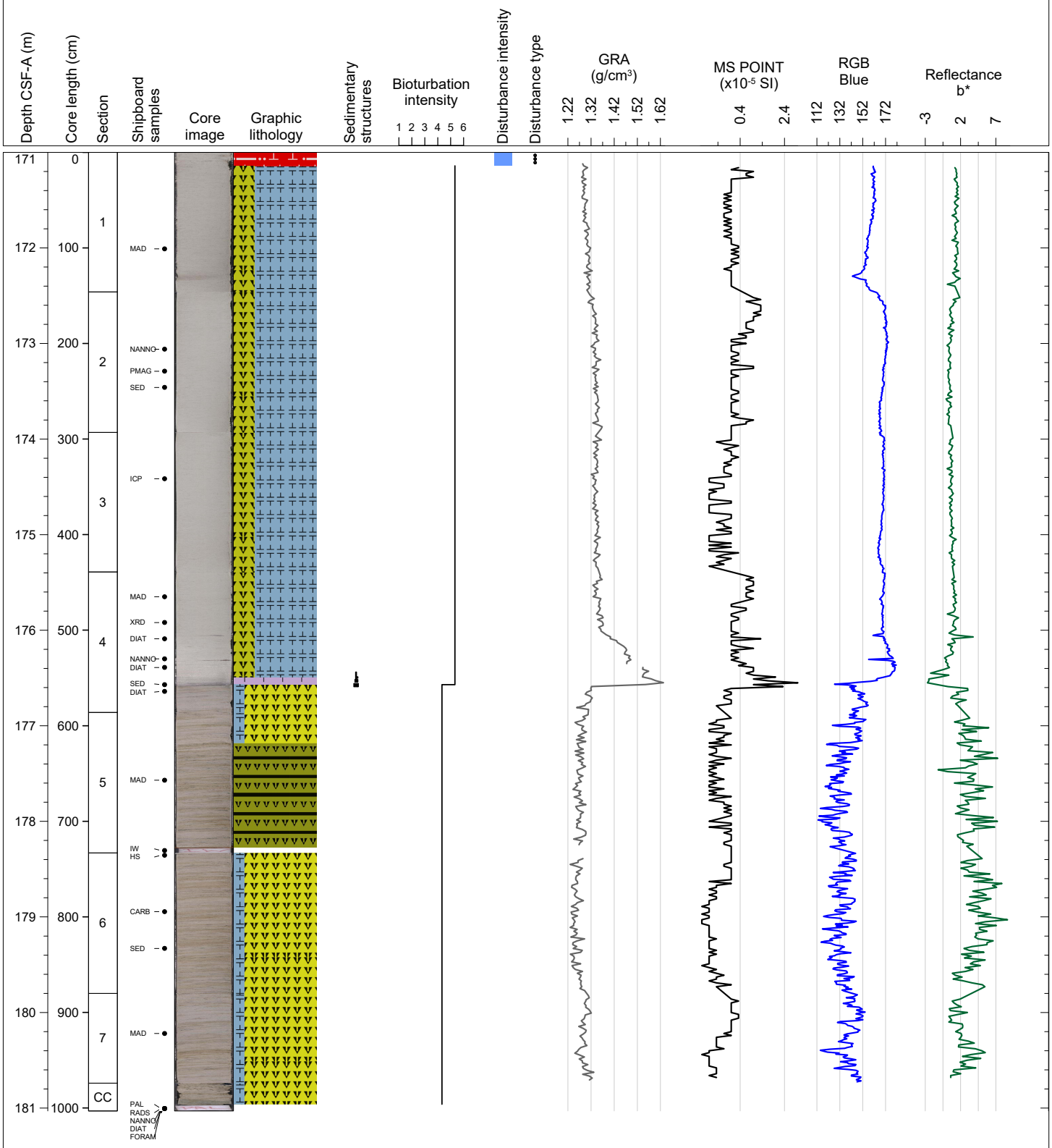
Hole 383-U1539C Core 18H, Interval 161.5-170.32 m (CSF-A)

Fall in, highly disturbed in upper 14 cm; light gray to light greenish gray diatom ooze with lamination or wavy bedding, transition to homogeneous light greenish gray carbonate-bearing nannofossil-rich diatom ooze in Section 7 and cc.



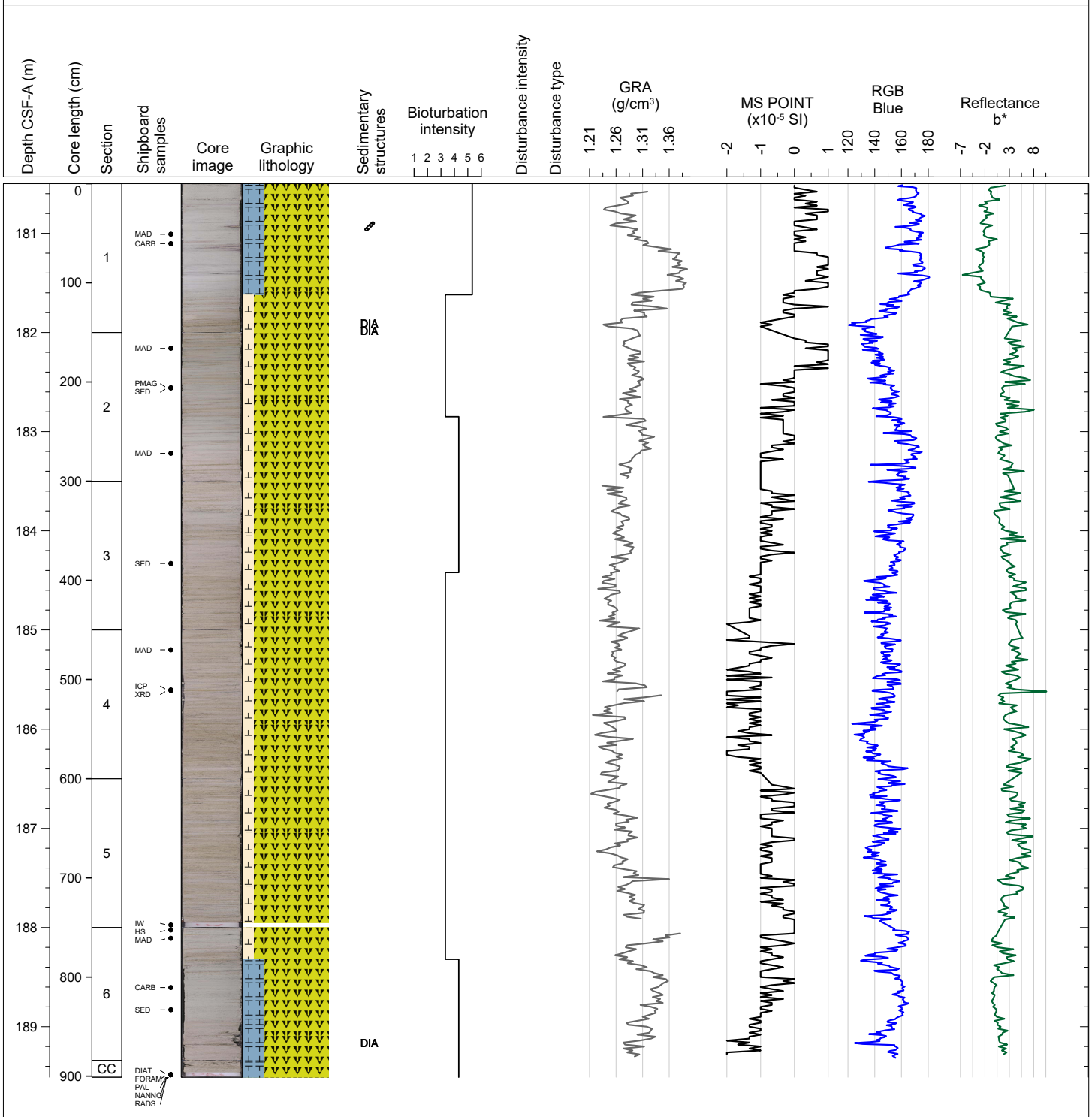
Hole 383-U1539C Core 19H, Interval 171.0-181.03 m (CSF-A)

A massive (no stratification) light greenish gray diatom-rich calcareous ooze with radiolarians is exposed in Sections 1-4. The thick calcareous ooze is underlain by a 10 cm foraminiferal ooze (foram sand) in Section 4. Carbonate-bearing diatom ooze is the only lithology in Sections 4-7.



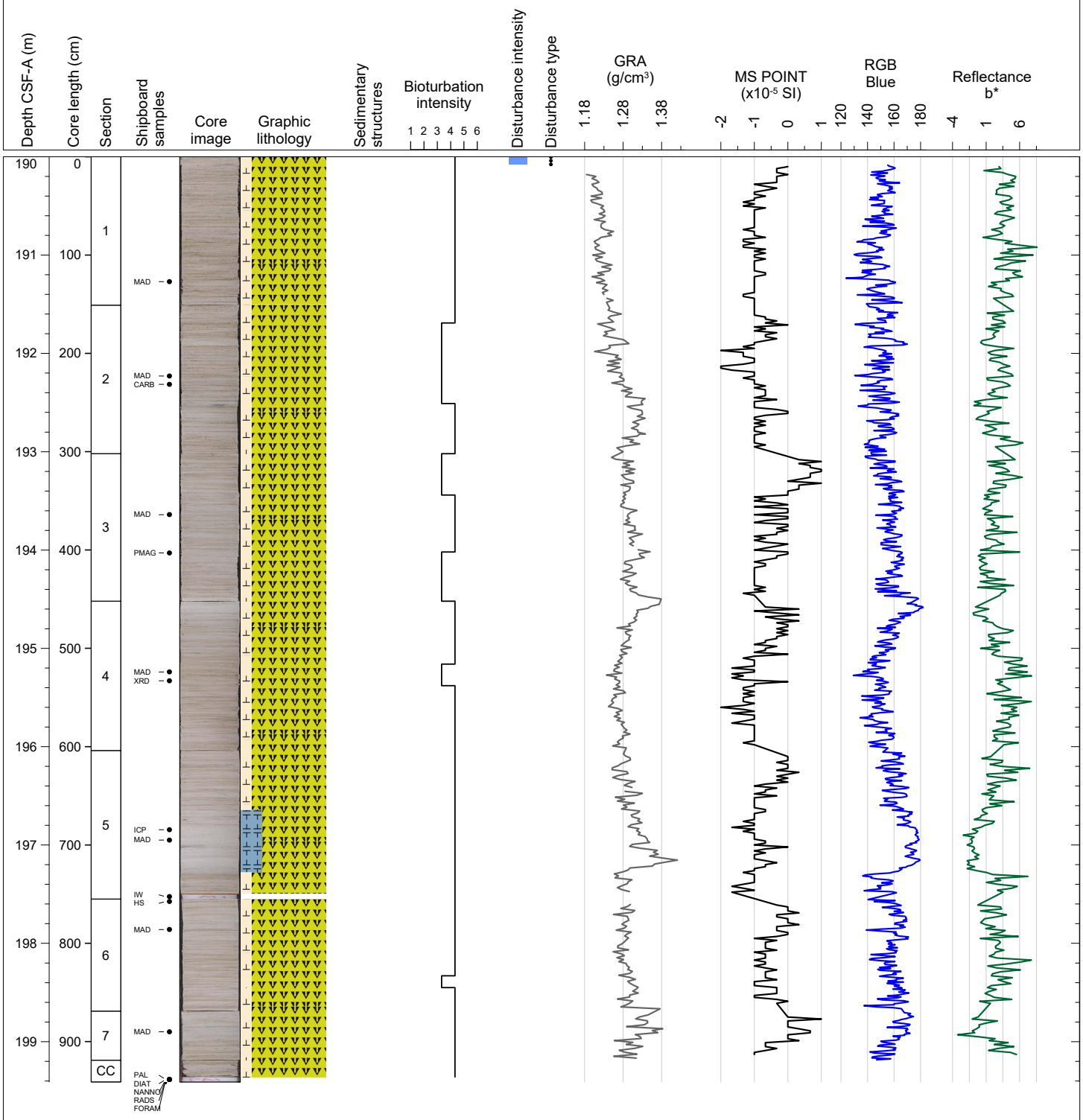
Hole 383-U1539C Core 20H, Interval 180.5-189.51 m (CSF-A)

Light gray nannofossil-bearing diatom ooze with radiolarians is the dominant lithology. Frequent cm-scale wavy laminae observed in x-ray images. Minor lithology includes light greenish gray carbonate-rich diatom ooze with nannos, radiolarians and silicoflagellates.



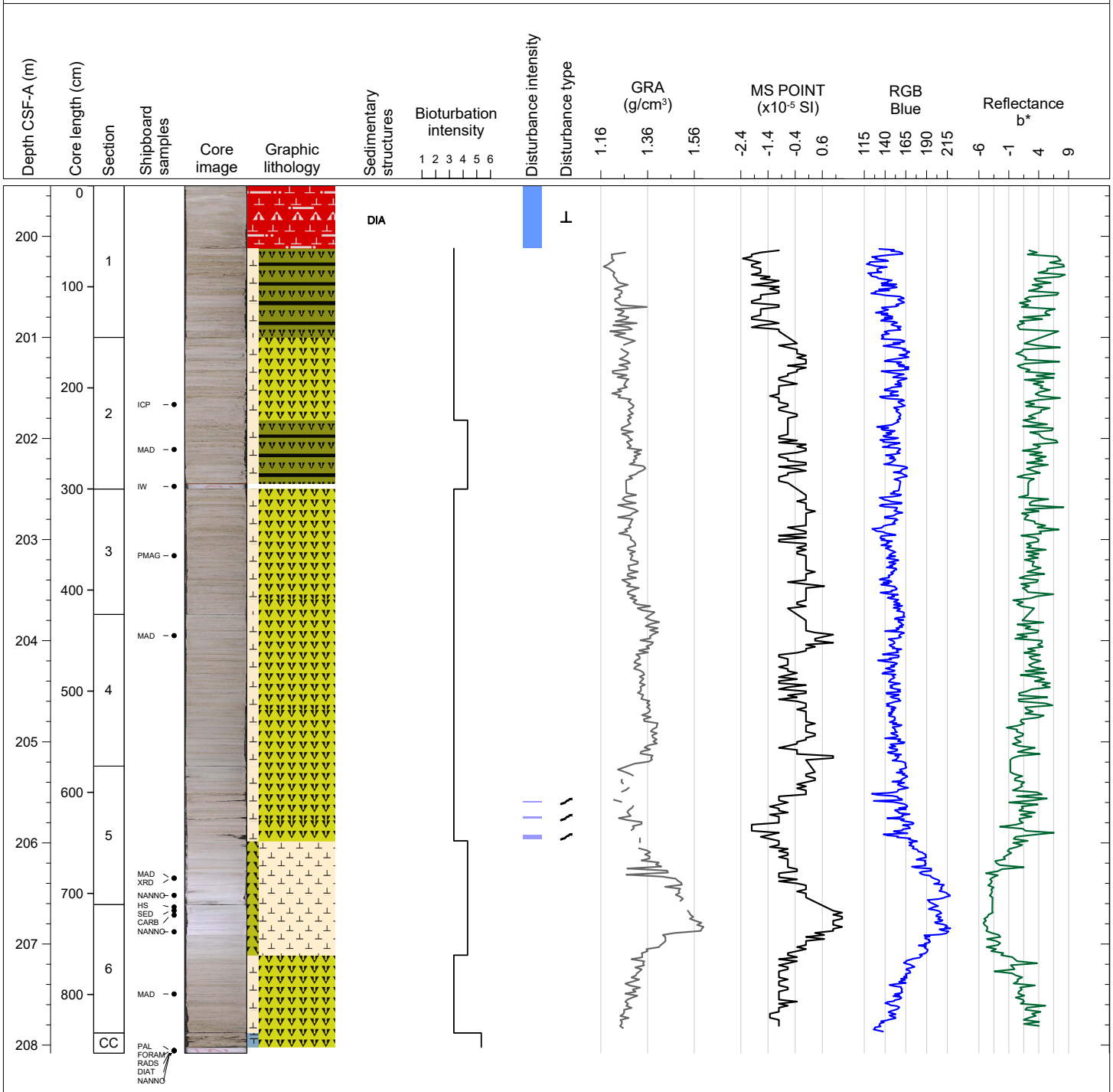
Hole 383-U1539C Core 21H, Interval 190.0-199.41 m (CSF-A)

Light greenish gray to light gray nannofossil-bearing diatom ooze with radiolarians is the domninant lithology. Diatom mats (cm-scale) appear frequently. A 60 cm bed of white carbonate-rich diatom ooze observed in section 5.



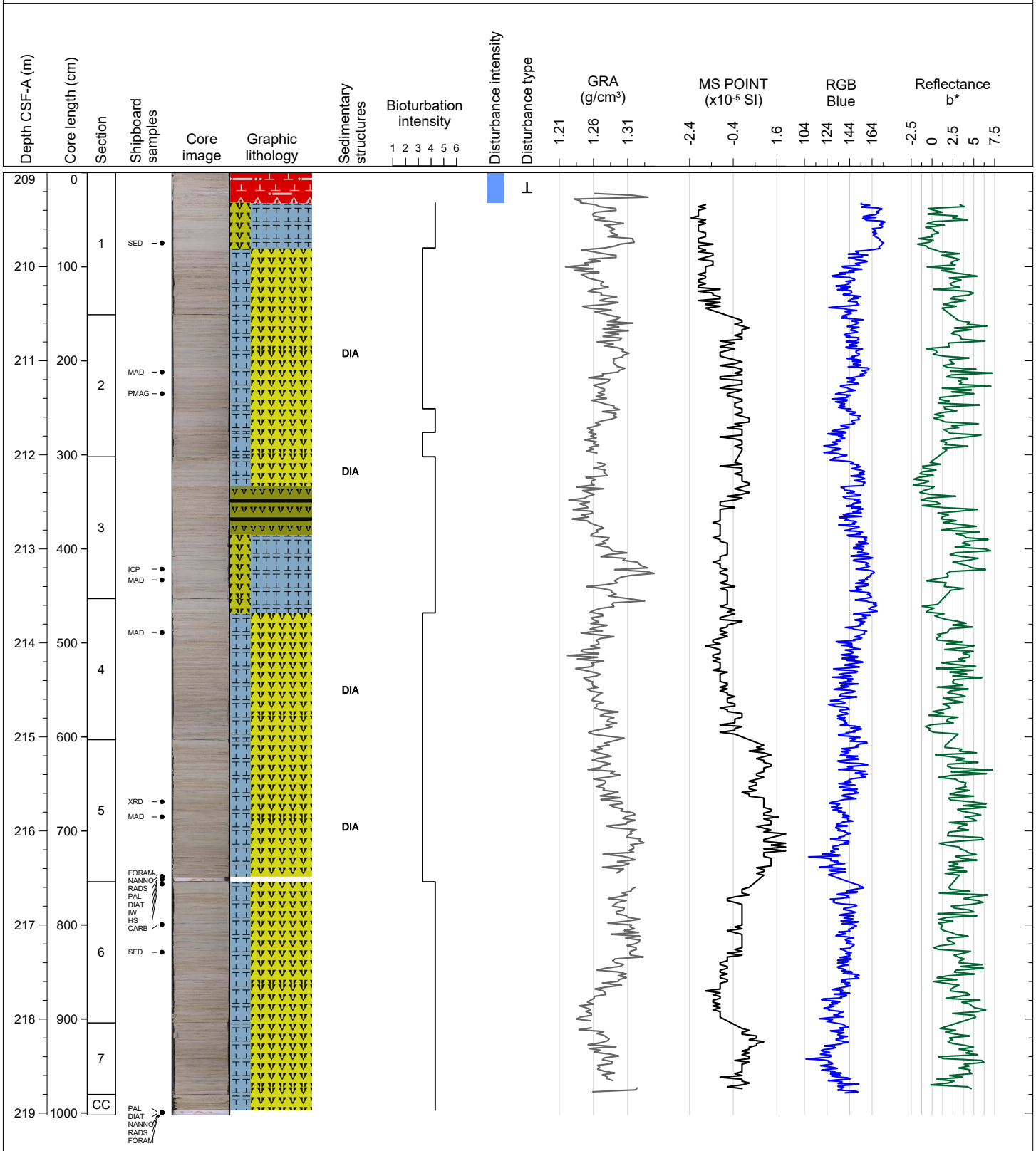
Hole 383-U1539C Core 22H, Interval 199.5-208.08 m (CSF-A)

A light greenish gray nannofossil-bearing diatom ooze with cm-scale diatom mats is the primary lithology. A white diatom-bearing nannofossil ooze is present in Section 5 and 6. Major drilling disturbance (fall in) occurs in Section 1.



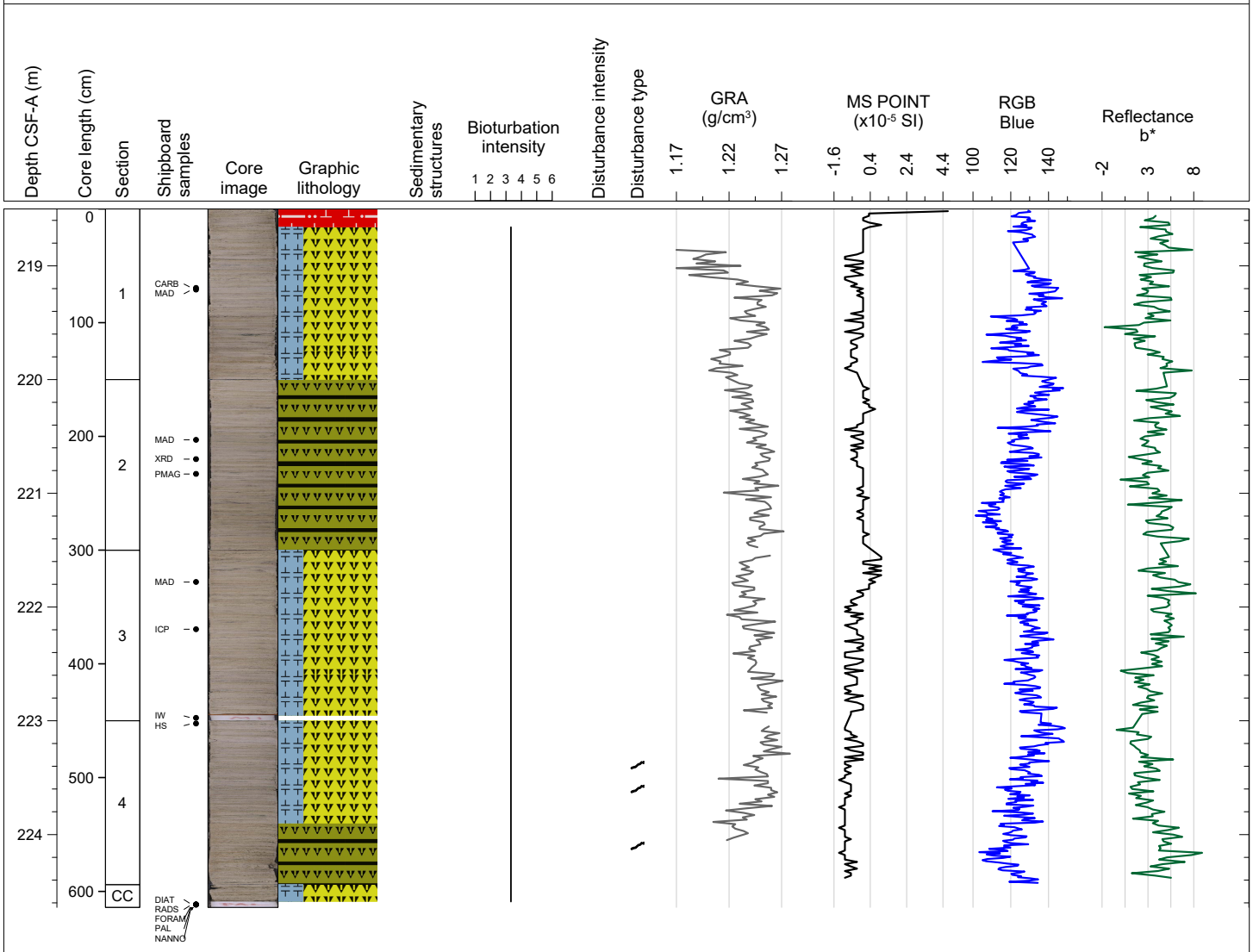
Hole 383-U1539C Core 23H, Interval 209.0-219.02 m (CSF-A)

Light greenish gray carbonate-rich diatom ooze with radiolarians is the dominant lithology. Moderate- to well-preserved wavy bedding with diatom mats are abundant. The minor lithology is white diatom-rich calcareous ooze. Slight to moderate biotrurbation is found throughout the core and high drilling disturbance is observed in the uppermost 32 cm.



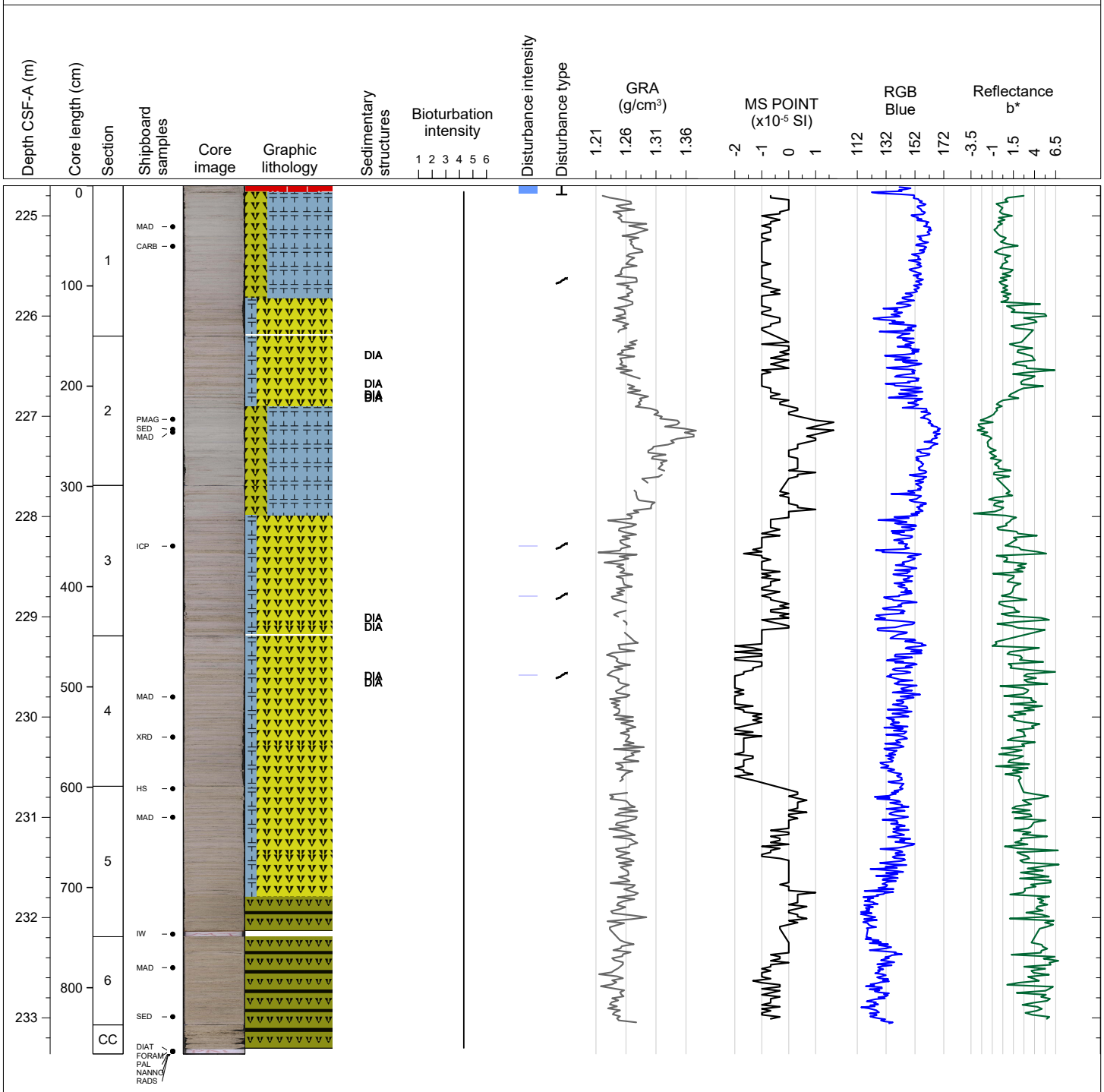
Hole 383-U1539C Core 24H, Interval 218.5-224.64 m (CSF-A)

Light greenish gray carbonate-rich diatom ooze with abundant cm-scale diatom mats. Drilling disturbance (fall in) occurs in the upper 16 cm in Section 1.



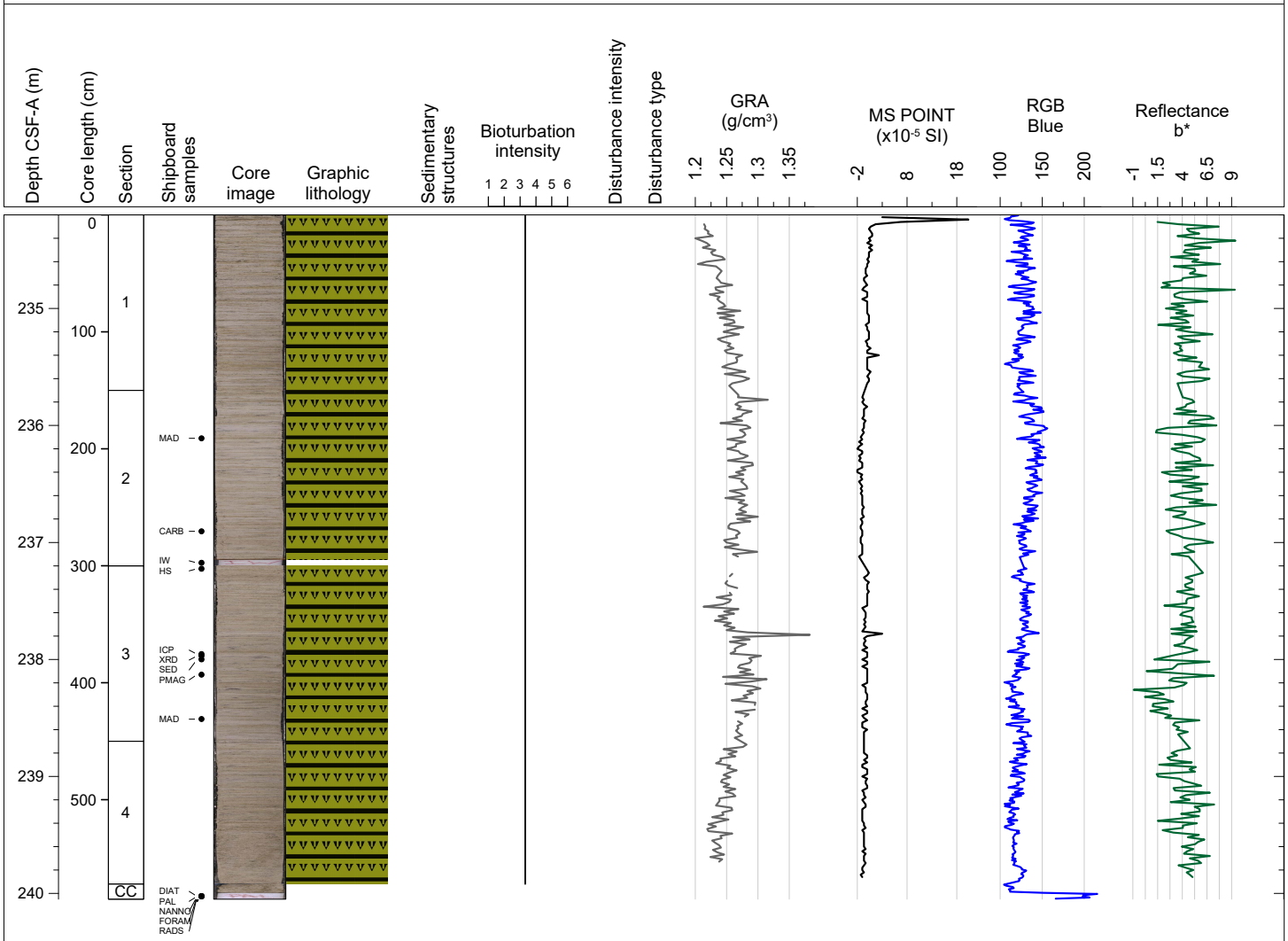
Hole 383-U1539C Core 25H, Interval 224.7-233.36 m (CSF-A)

Light greenish gray carbonate-bearing diatom ooze with rads and silicoflagellates; abundant diatom mats. Secondary lithology includes light greenish gray diatom-rich calcareous ooze with nannofossils.



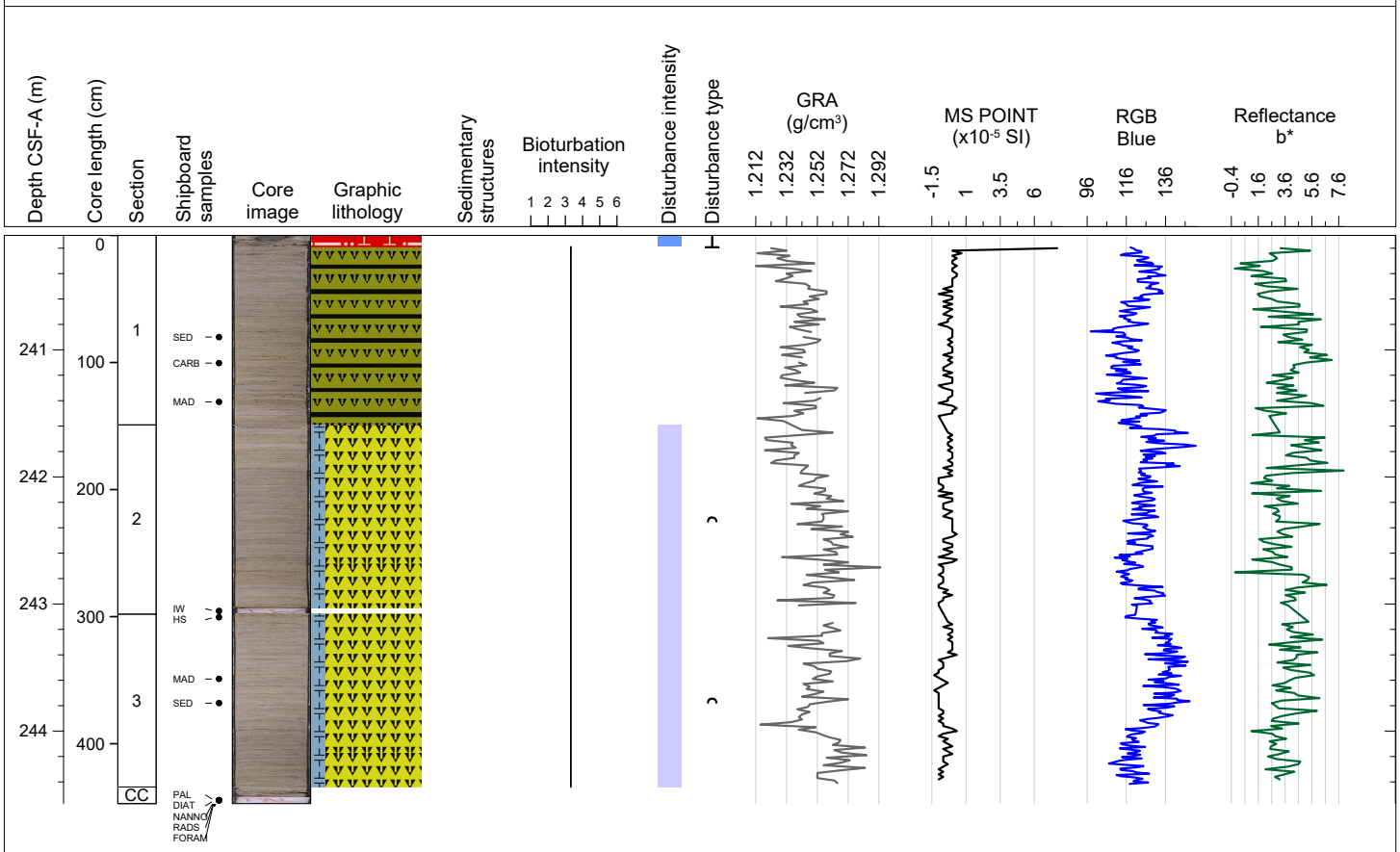
Hole 383-U1539C Core 26H, Interval 234.2-240.05 m (CSF-A)

Light gray carbonate-bearing diatom ooze with frequent diatom matts, mottled by dark greenish colors due to diagenesis



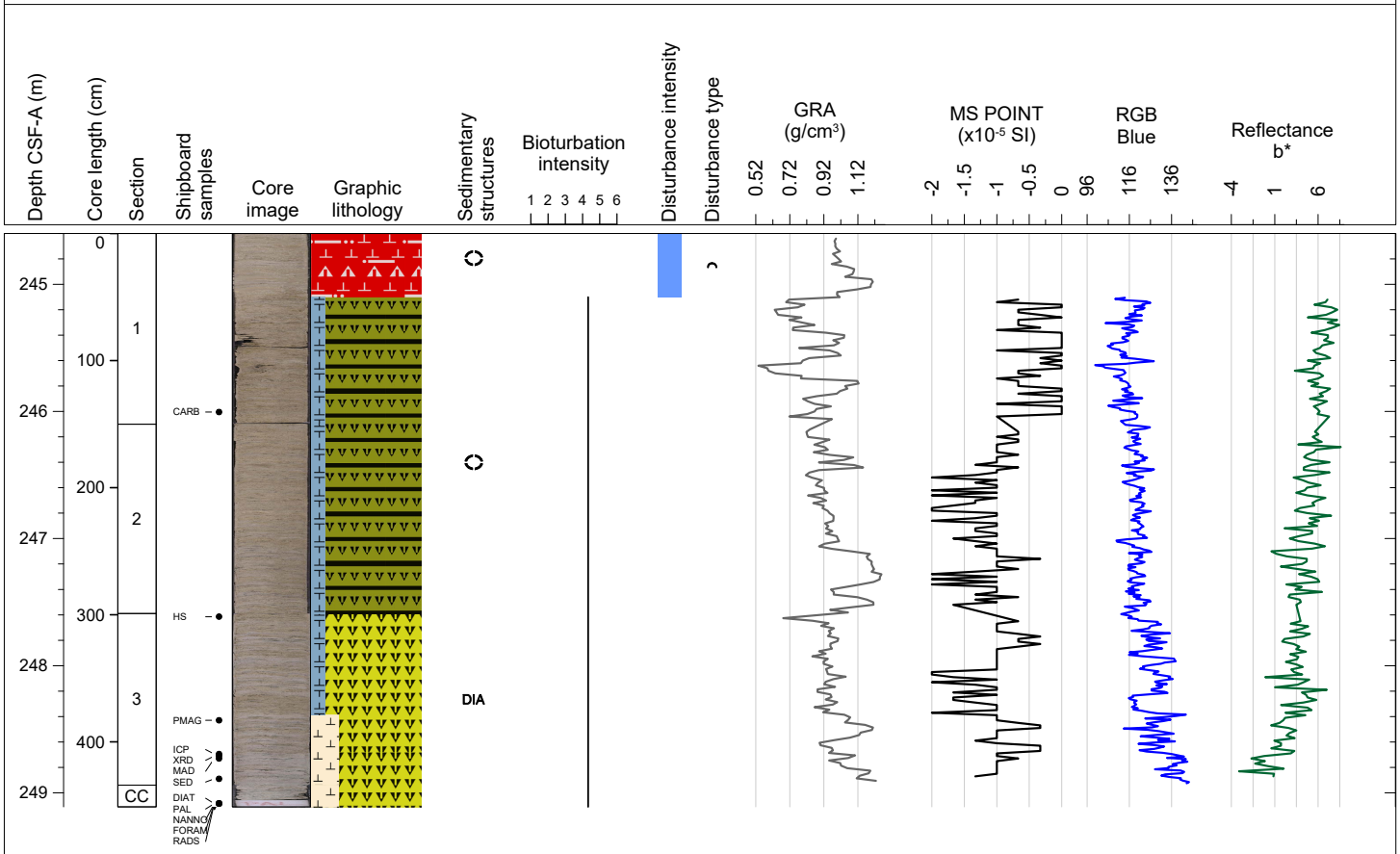
Hole 383-U1539C Core 27F, Interval 240.1-244.57 m (CSF-A)

Fall in, highly disturbed in upper 9 cm with many large dropstones; light gray carbonate-bearing diatom ooze with frequent diatom matts, mottled by dark greenish colors due to diagenesis



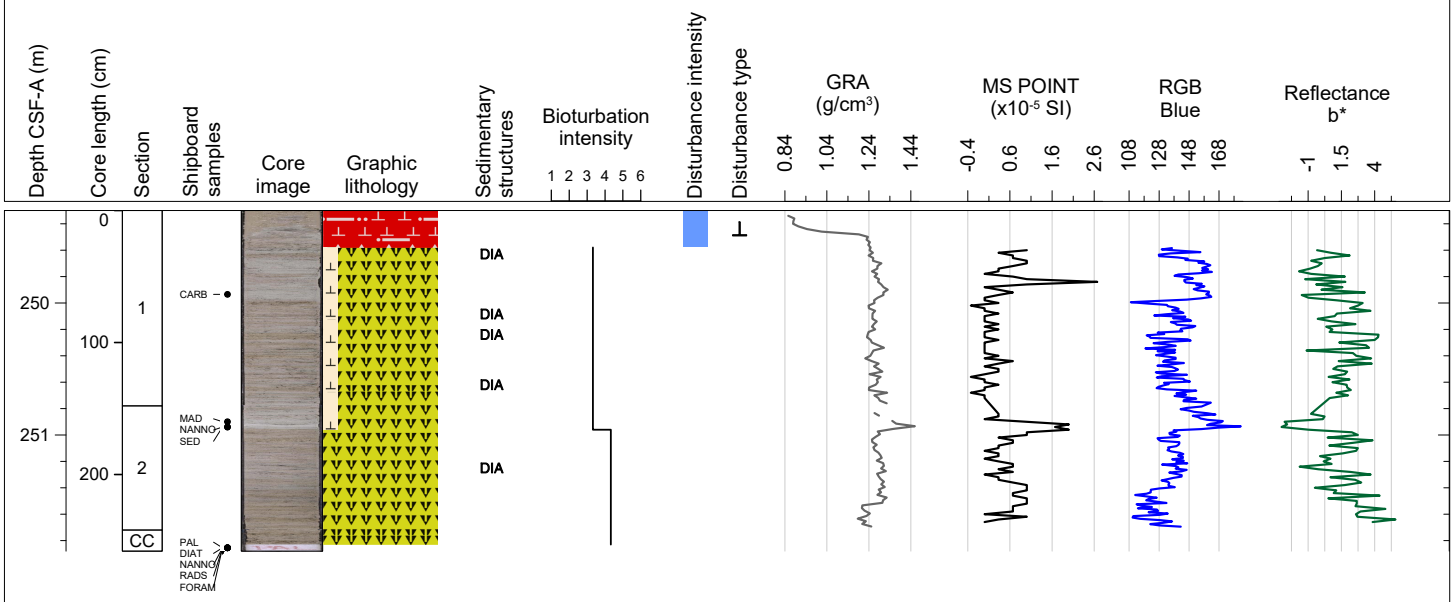
Hole 383-U1539C Core 28F, Interval 244.6-249.11 m (CSF-A)

Soupy in upper 50 cm, light gray carbonate-bearing diatom ooze to light greenish gray nannofossil-rich diatom ooze, with frequent diatom matts, mottled by dark greenish colors due to diagenesis, impacted by a large dropstone pulled through



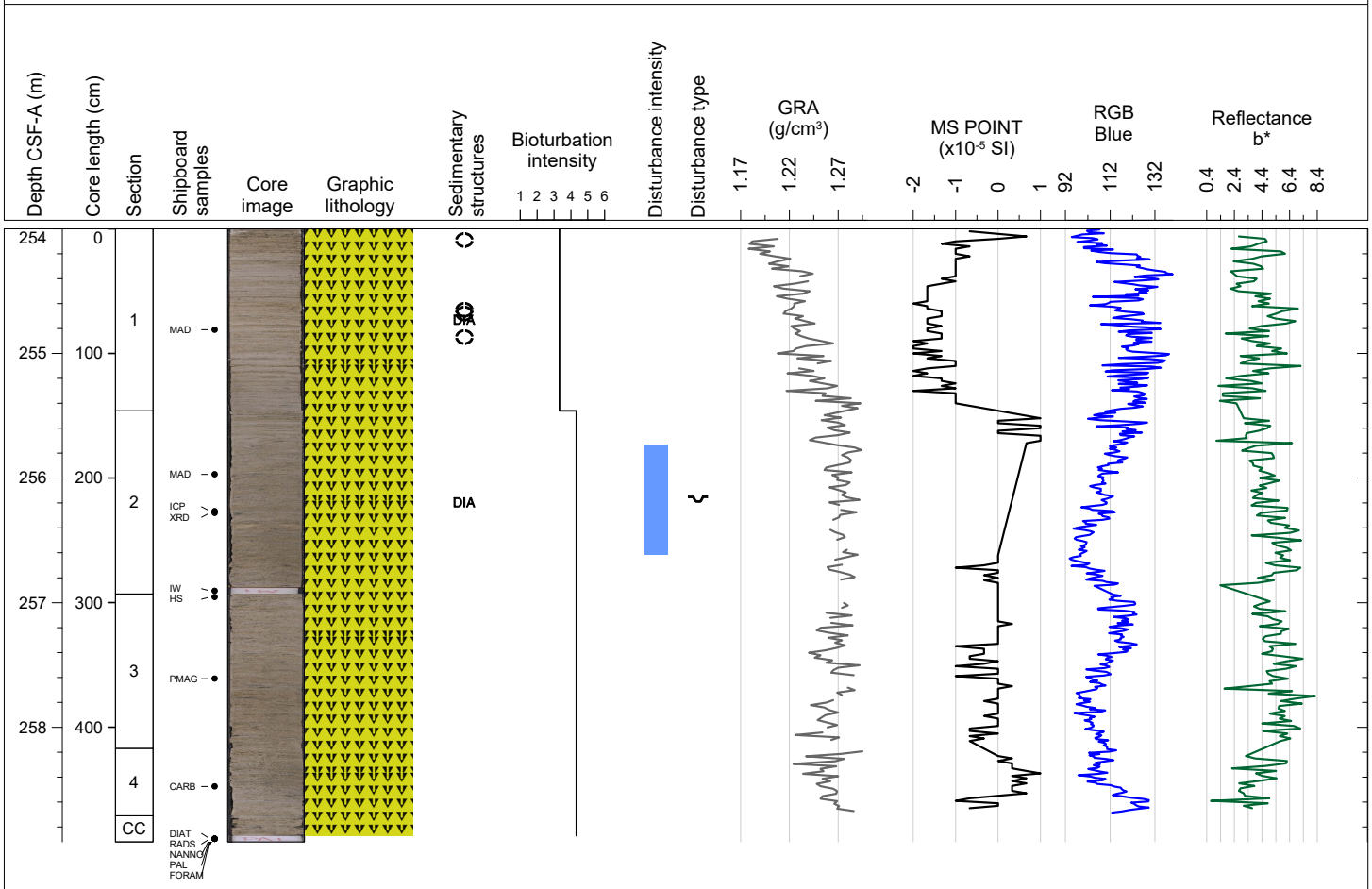
Hole 383-U1539C Core 29F, Interval 249.3-251.88 m (CSF-A)

Fall in, soupy in upper 28 cm with many dropstones; mainly light greenish gray to gray diatom ooze with frequent diatom matts, intercalated with white nannofossil ooze in Section 2 (11-18 cm), mottled by dark green to black colors due to diagenesis



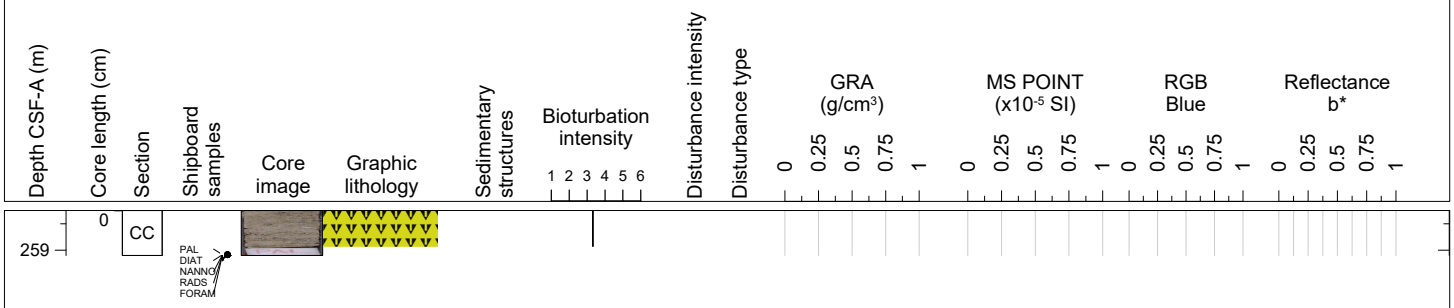
Hole 383-U1539C Core 30F, Interval 254.0-258.92 m (CSF-A)

Light olive gray diatom ooze with frequent diatom matts, mottled by dark greenish colors due to diagenesis, coring disturbance by a large dropstone pulled through.



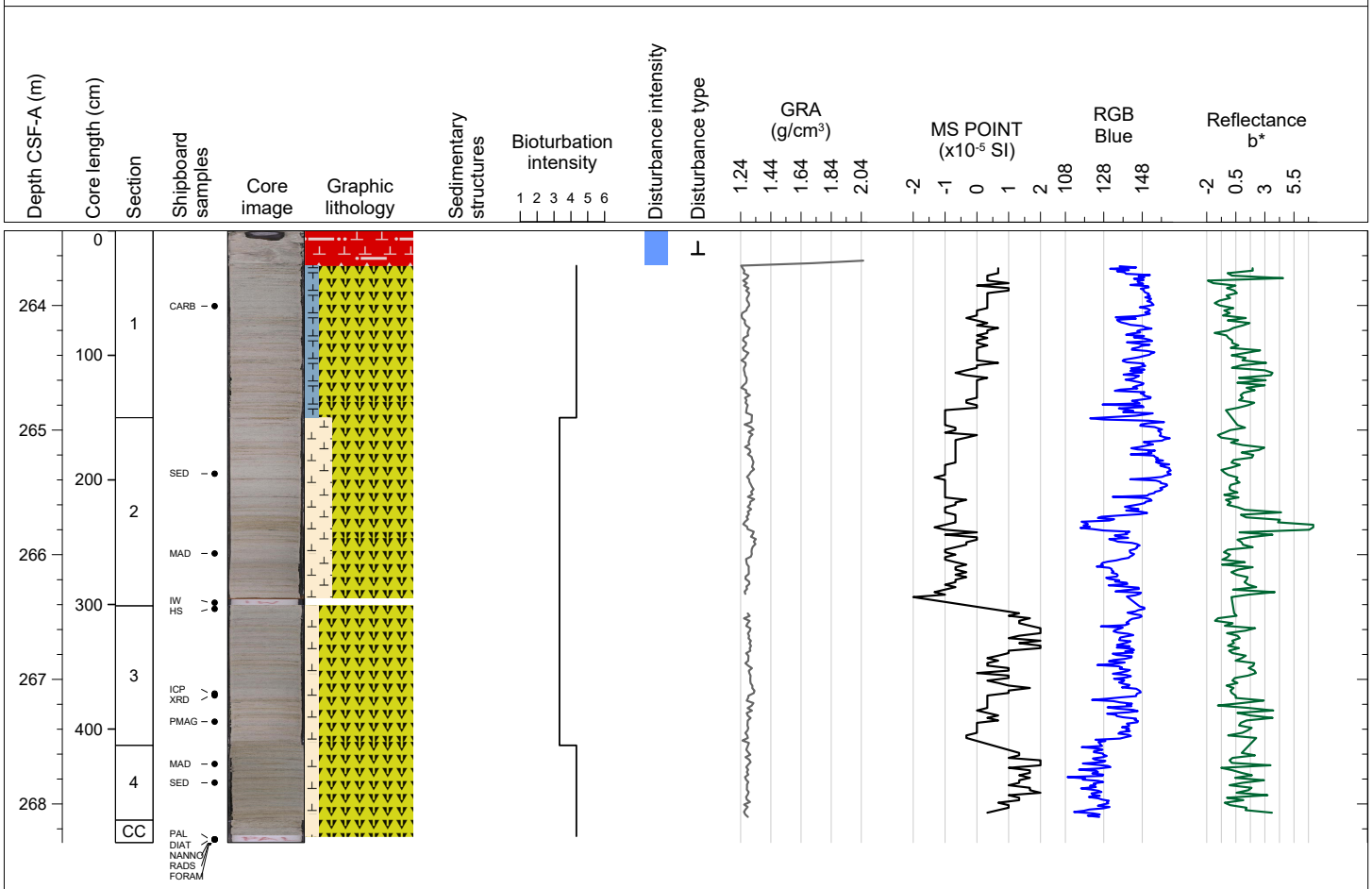
Hole 383-U1539C Core 31F, Interval 258.7-259.04 m (CSF-A)

Gray diatom ooze



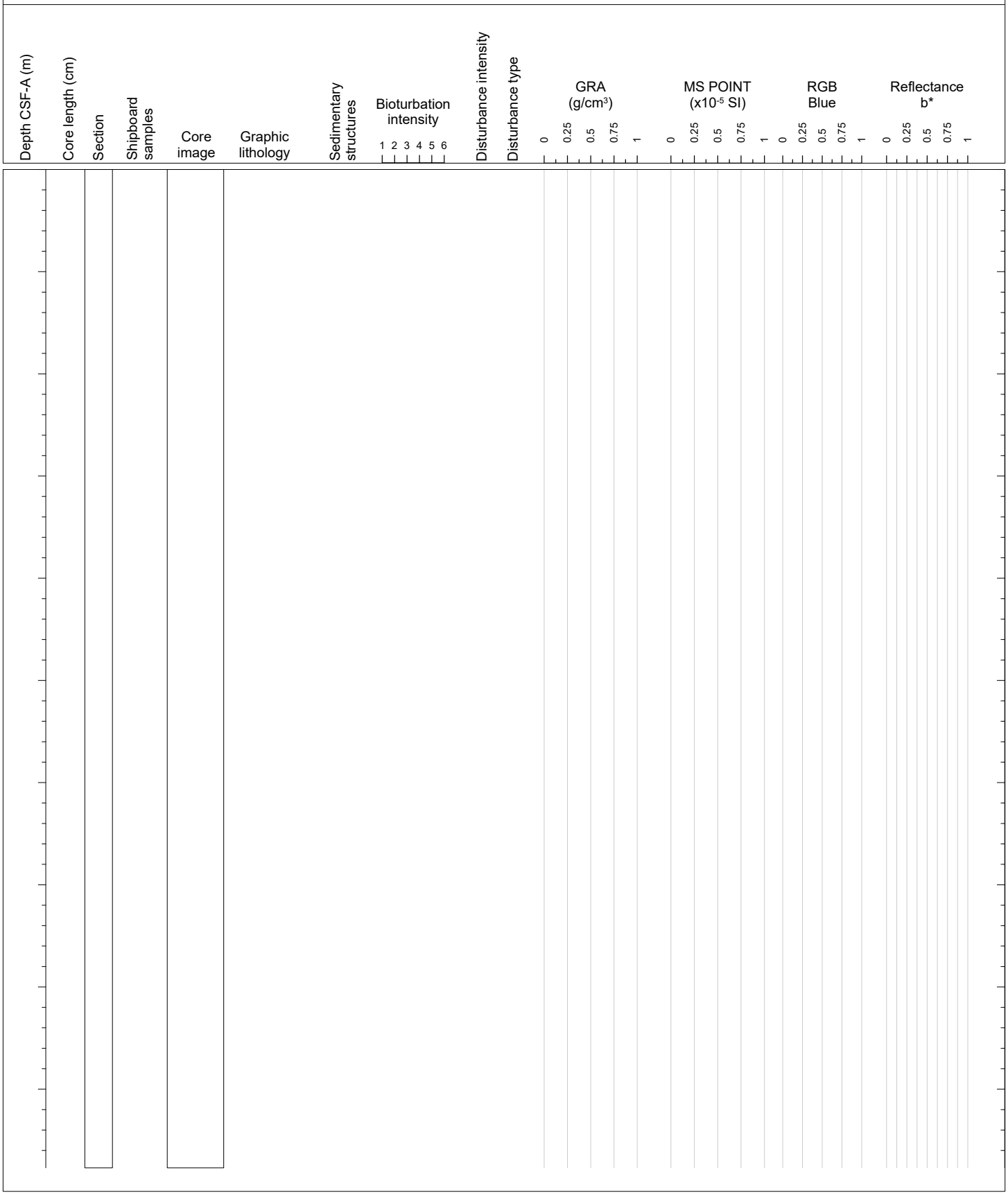
Hole 383-U1539C Core 32F, Interval 263.4-268.31 m (CSF-A)

Fall in, soupy, highly disturbed in upper 28 cm with large dropstone (5-7 cm), mainly light greenish gray to light gray diatom ooze, with occasional to frequent diatom matts



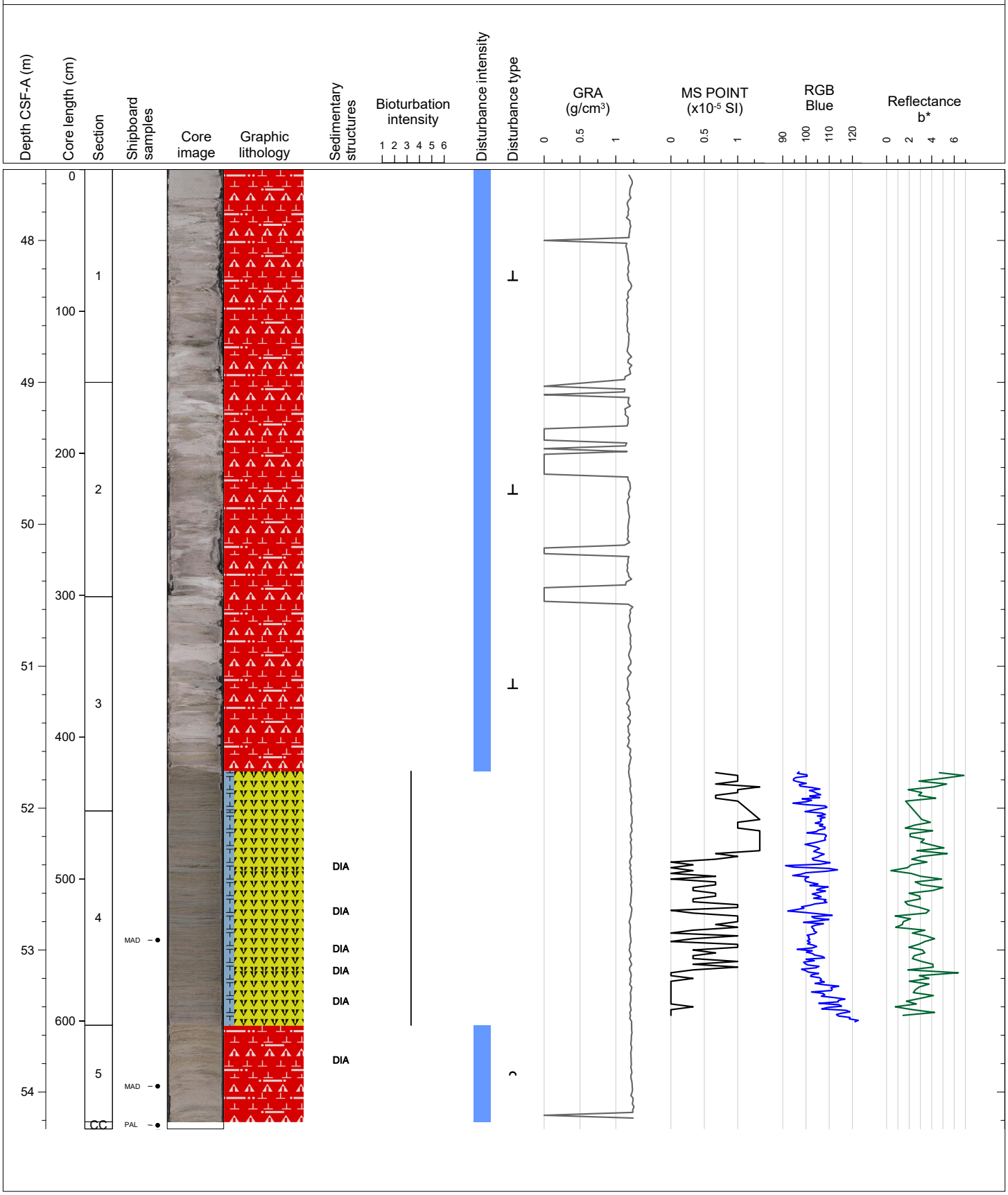
Hole 383-U1539D Core 11, Interval 0.0-0.0 m (CSF-A)

DRILLED INTERVAL



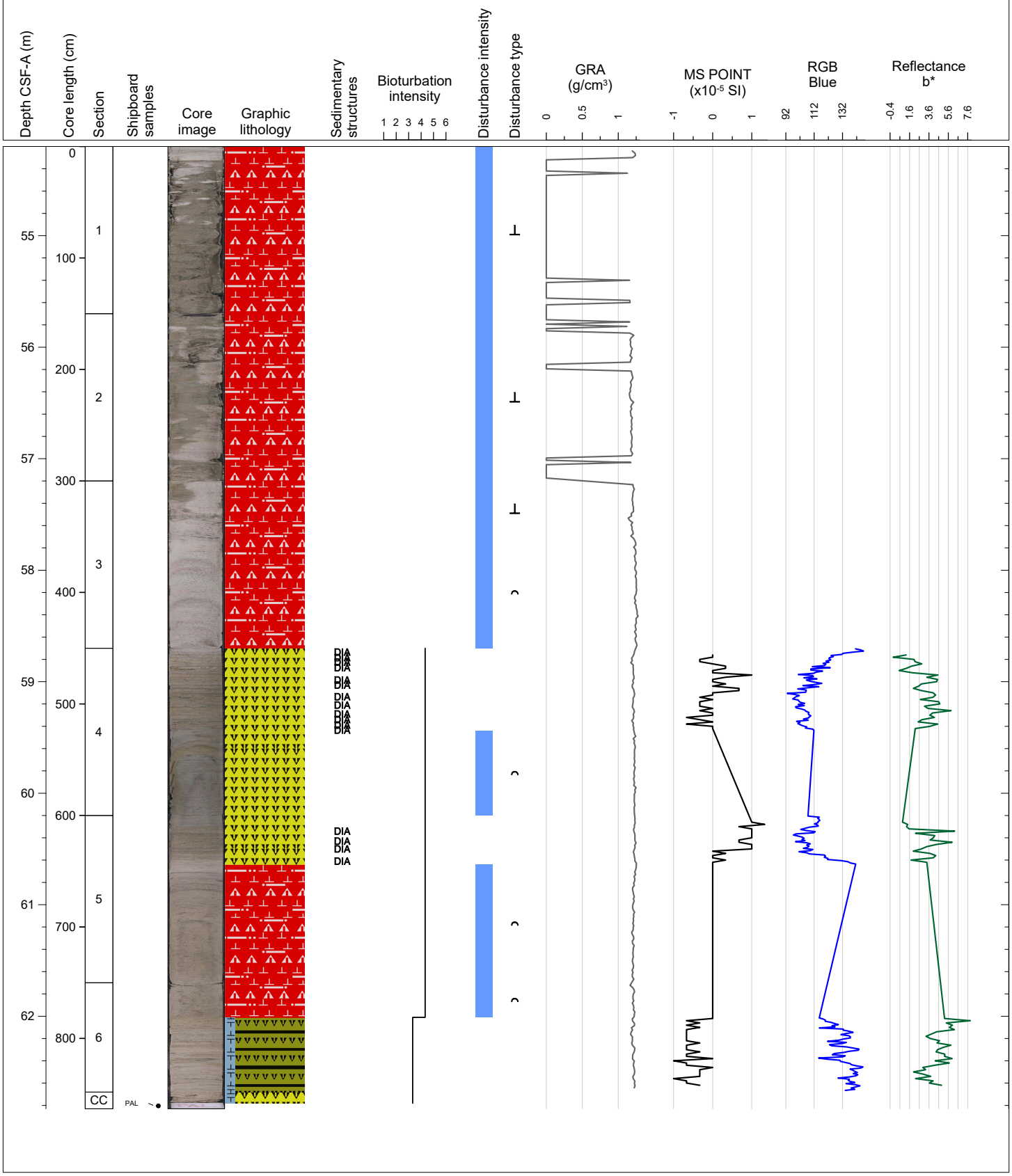
Hole 383-U1539D Core 2H, Interval 47.5-54.26 m (CSF-A)

Fall in, soupy, highly disturbed in Section 1-2 and 3 (0-123 cm) with mixed colors; subsequently greenish gray carbonate-bearing diatom ooze with occasional to frequent diatom matts, mottled by dark green to black colors due to diagenesis



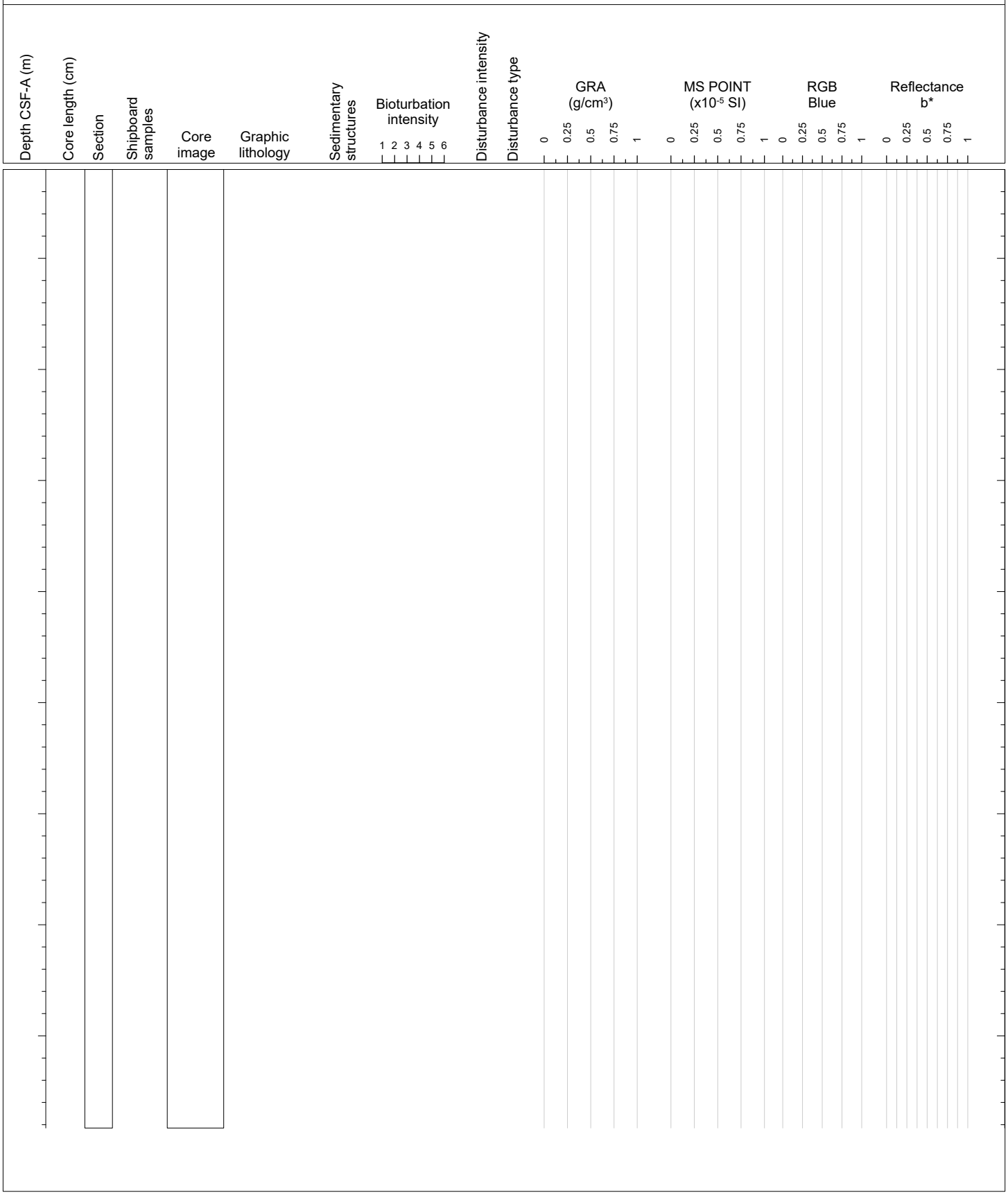
Hole 383-U1539D Core 3H, Interval 54.2-62.83 m (CSF-A)

Fall in, soupy, highly disturbed in Section 1-2 and 3 (0-50 cm) with mixed colors, subsequently light greenish gray diatom-rich nannofossil ooze, transition to light gray diatom ooze with frequent diatom matts. APC pins sheared early and caused a slow injection of corer into sediment. Ship heave causes up arching core disturbance.



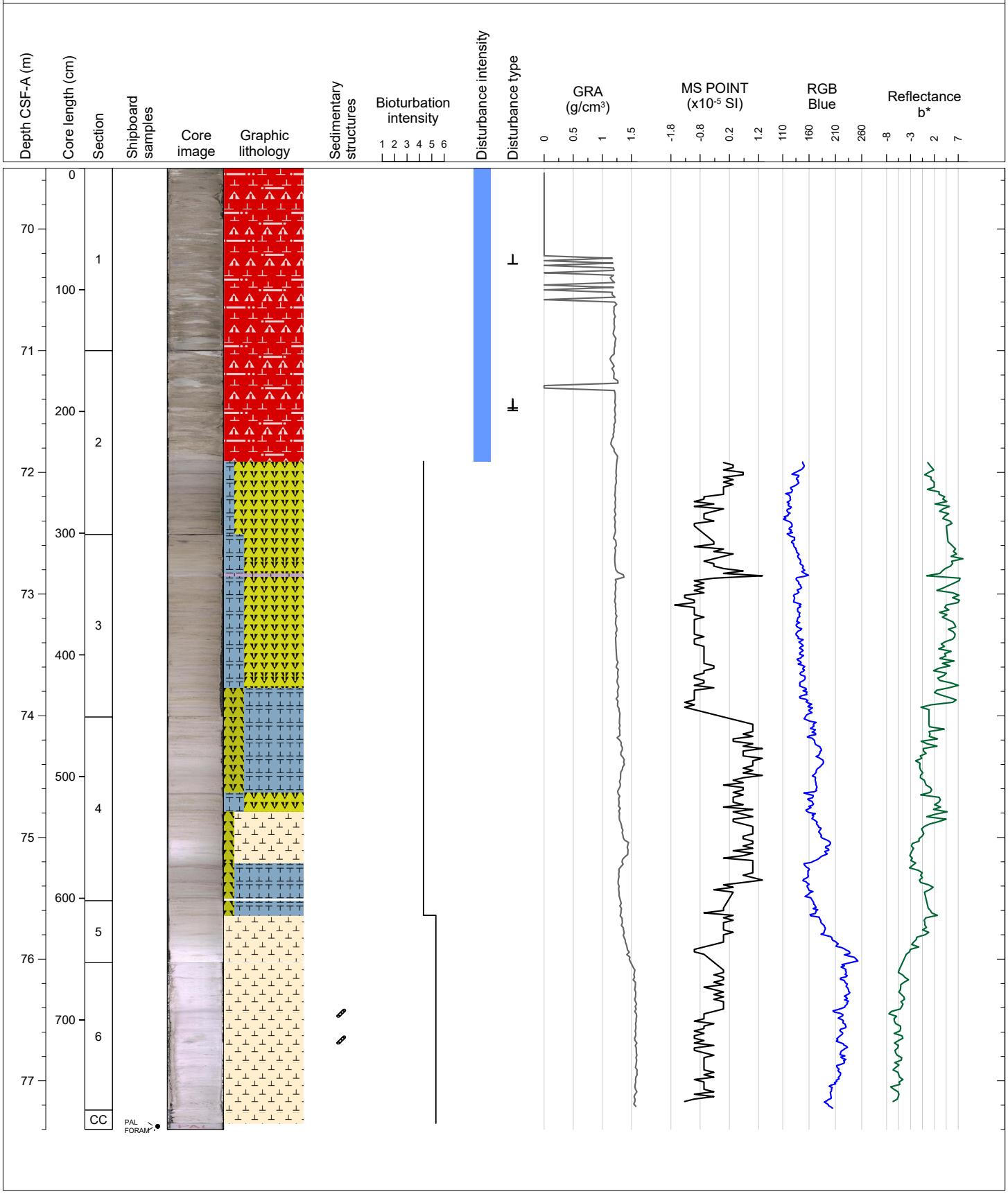
Hole 383-U1539D Core 41, Interval 62.8-62.8 m (CSF-A)

DRILLED INTERVAL



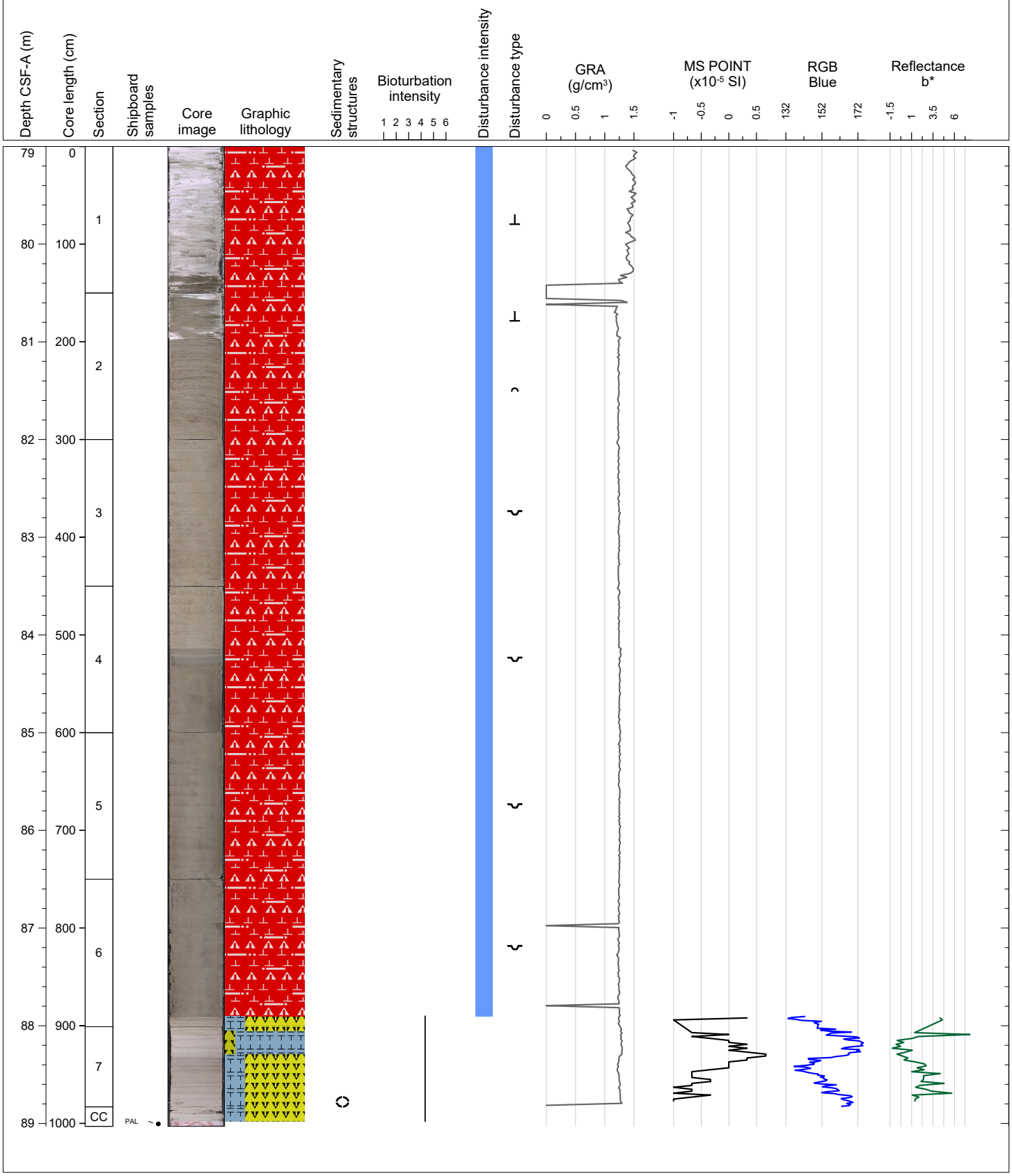
Hole 383-U1539D Core 5H, Interval 69.5-77.4 m (CSF-A)

The primary lithologies are light greenish gray carbonate-rich and carbonate-bearing diatom ooze. Prominent beds of light greenish gray diatom-bearing calcareous ooze and white diatom-bearing nannofossil ooze are also present.



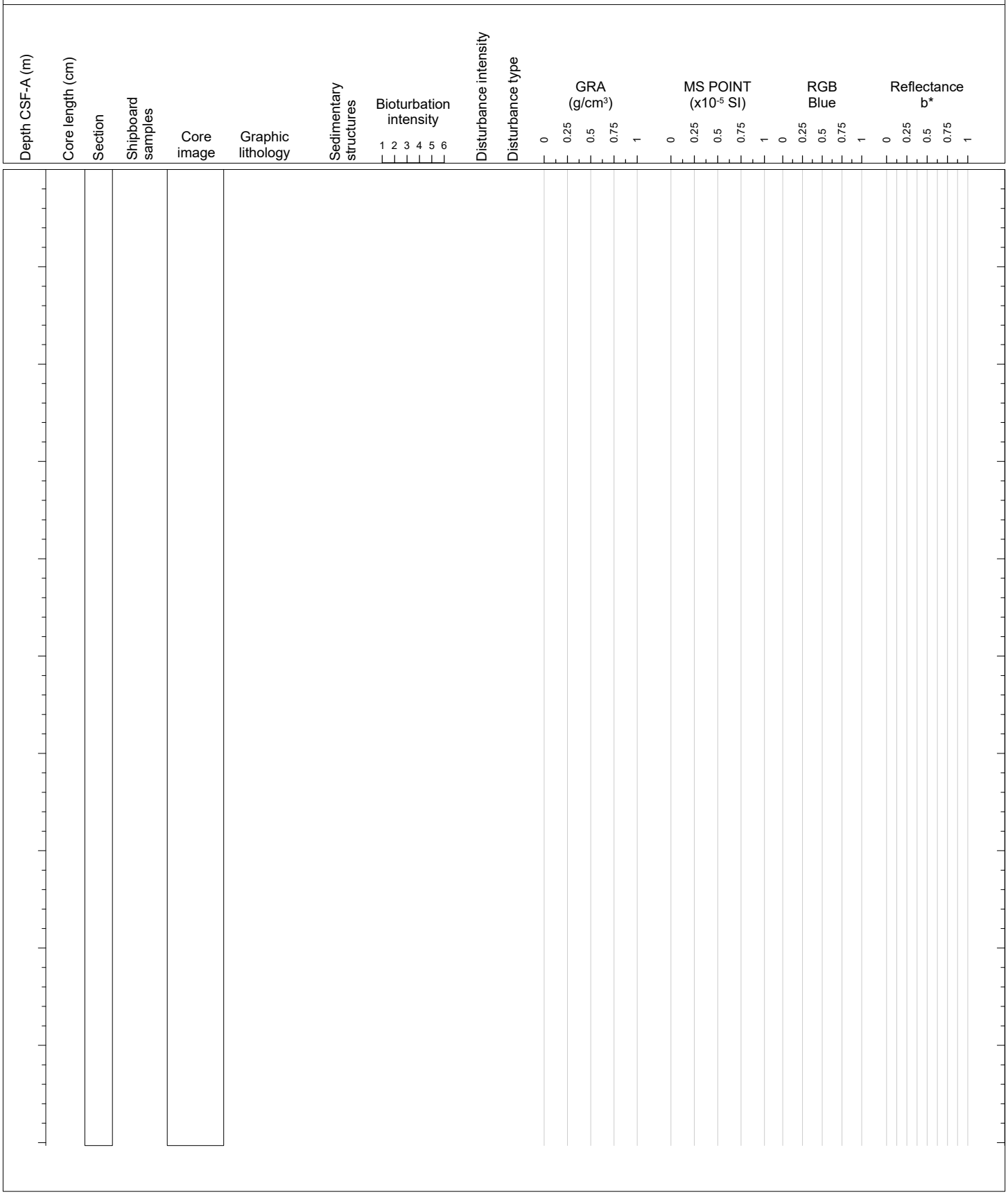
Hole 383-U1539D Core 6H, Interval 79.0-89.03 m (CSF-A)

APC misfire; significant core disturbance in Sections 1-6. Primary lithology is light gray calcareous-rich diatom ooze with minor amounts of light green diatom-bearing calcareous ooze.



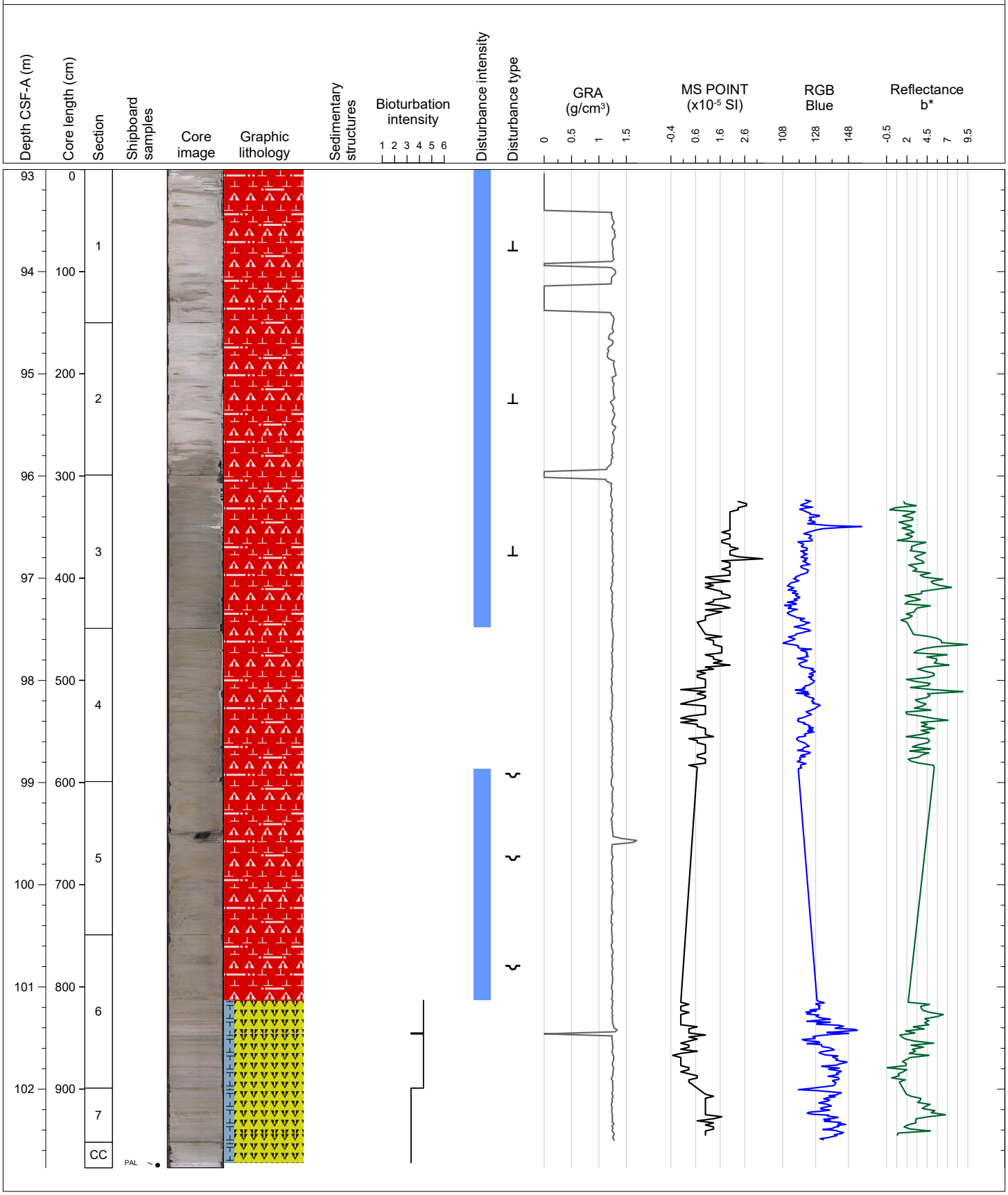
Hole 383-U1539D Core 71, Interval 88.5-88.5 m (CSF-A)

DRILLED INTERVAL



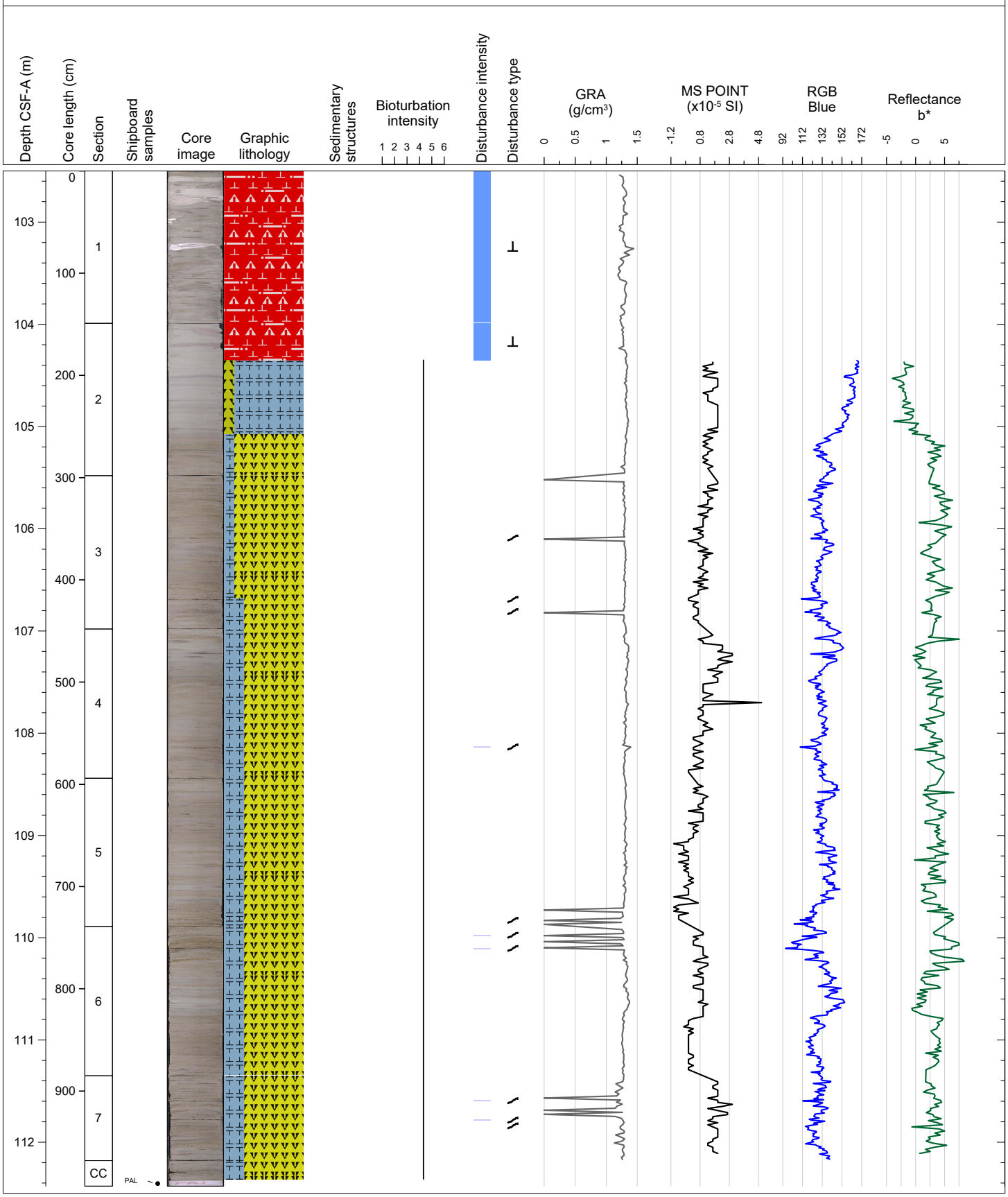
Hole 383-U1539D Core 8H, Interval 93.0-102.77 m (CSF-A)

Light greenish gray carbonate-bearing diatom ooze with wavy bedding and dark gray and green mottling is the primary lithology. Coring disturbance is high in Sections 1-6 and contain mixed lithologies.



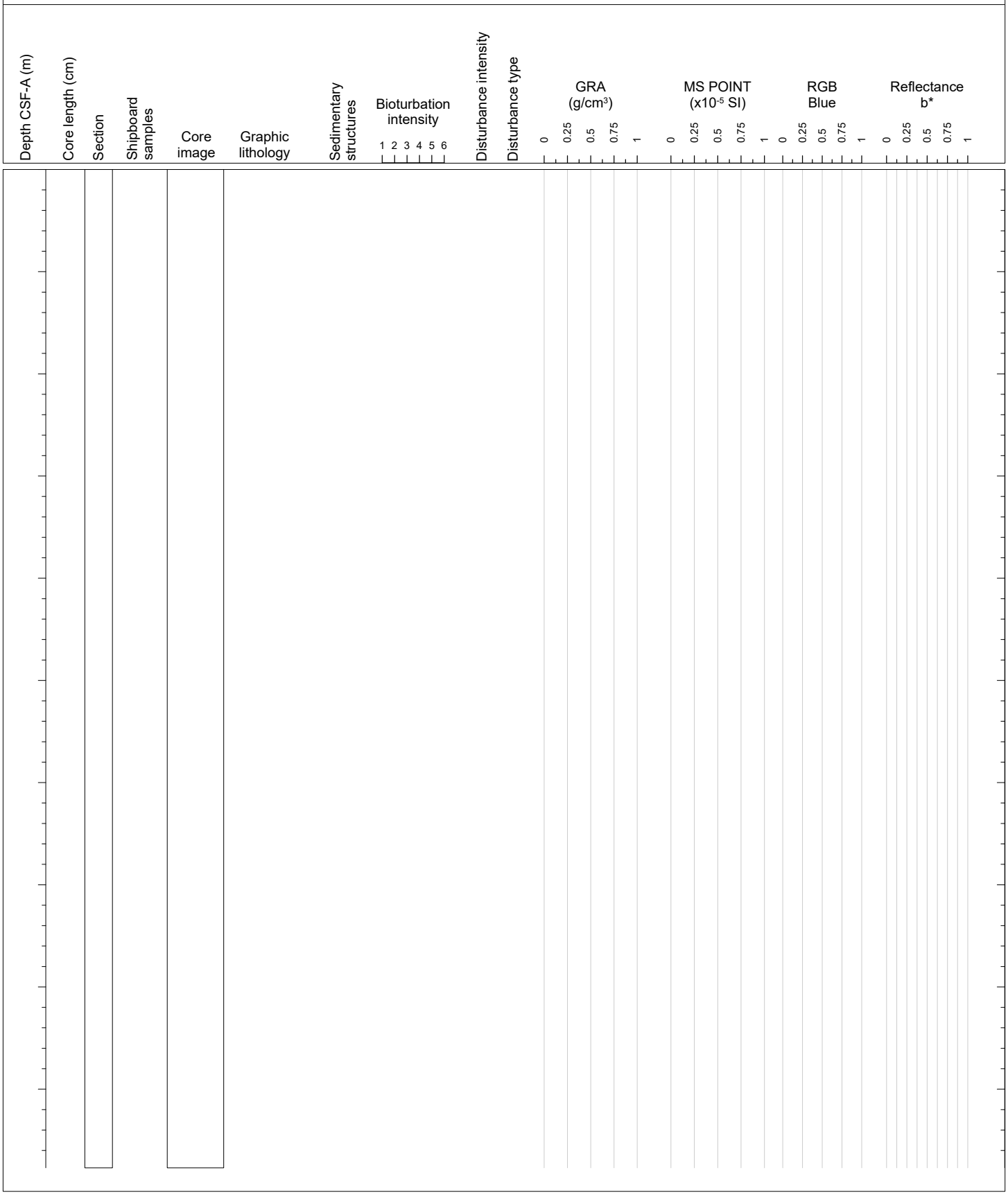
Hole 383-U1539D Core 9H, Interval 102.5-112.43 m (CSF-A)

Light gray carbonate-rich diatom ooze is the primary lithology with minor amounts of light greenish gray carbonate-bearing diatom ooze. Bioturbation is moderate throughout Core 9.



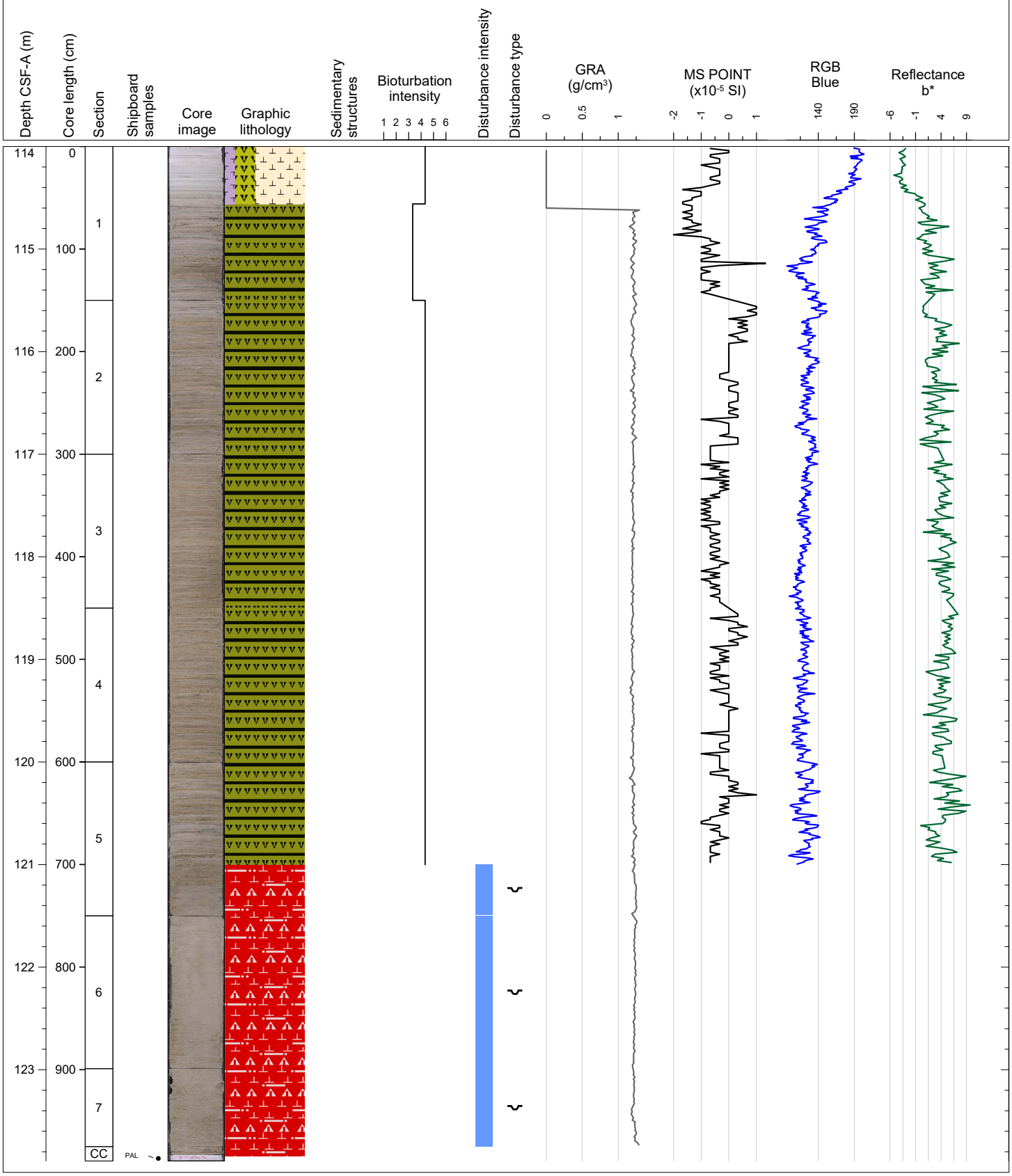
Hole 383-U1539D Core 101, Interval 112.0-112.0 m (CSF-A)

DRILLED INTERVAL



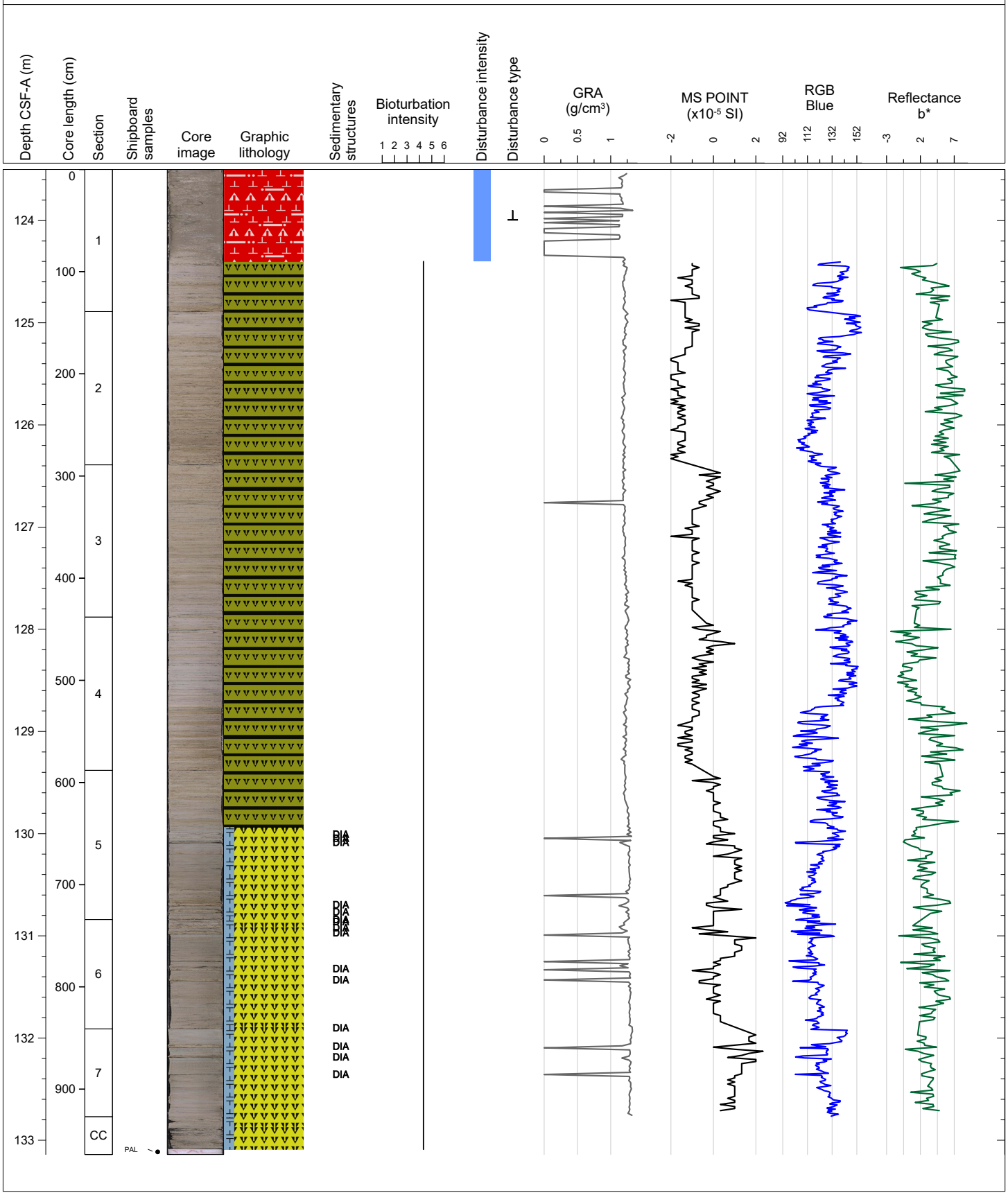
Hole 383-U1539D Core 11H, Interval 114.0-123.89 m (CSF-A)

The primary lithology consists of light gray diatom ooze with abundant cm-scale diatom mats. The top of the core contains a 55-cm thick bed of white foraminifer-bearing diatom-rich nannofossil ooze with moderate bioturbation. Extensive drilling disturbance (suck in) observed in Sections 5-7.



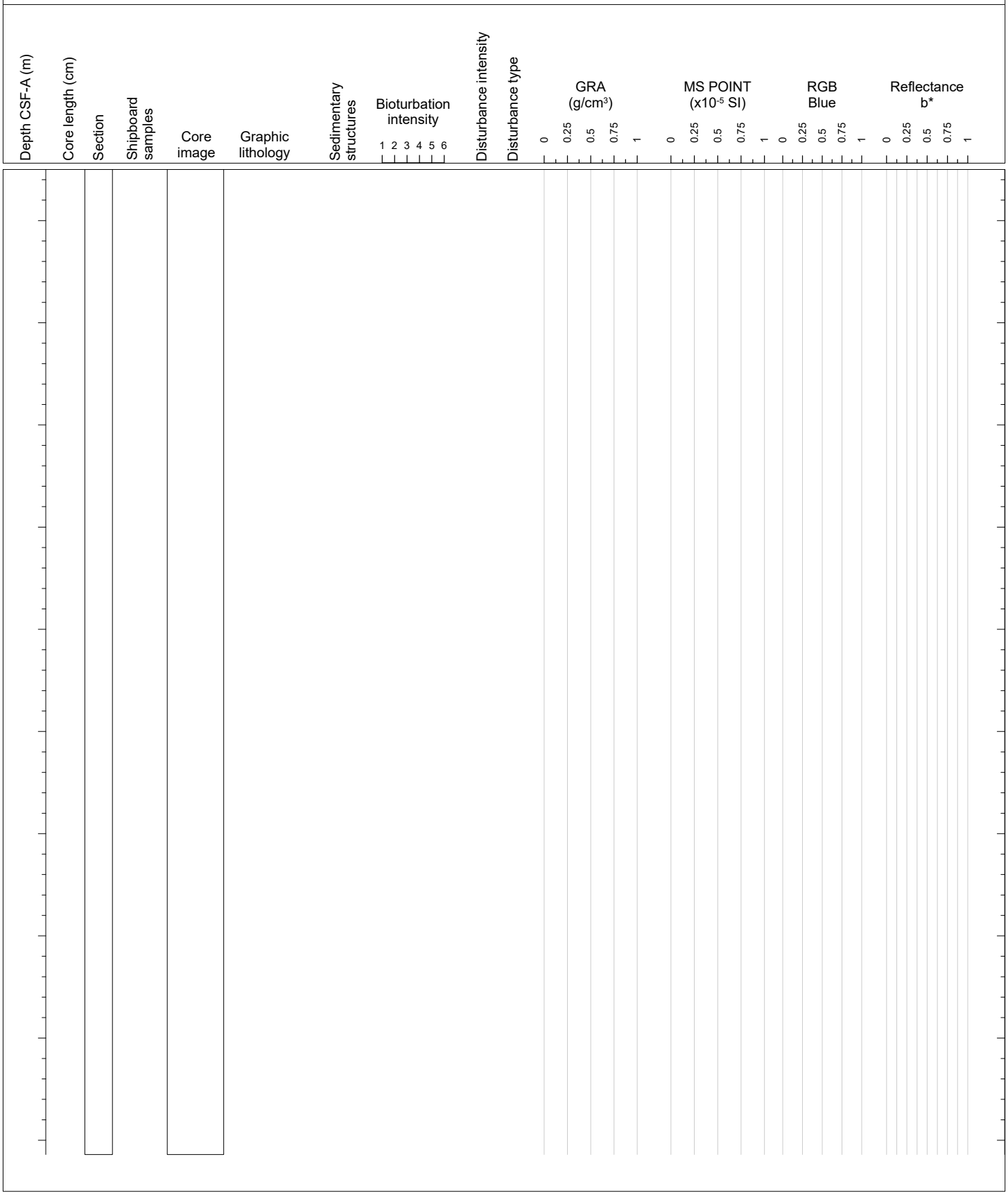
Hole 383-U1539D Core 12H, Interval 123.5-133.14 m (CSF-A)

The primary lithology consists of light greenish gray diatom ooze with frequent cm-scale diatom mats. A greenish gray carbonate-bearing diatom ooze with few cm-scale diatom mats is exposed in Sections 5-7.



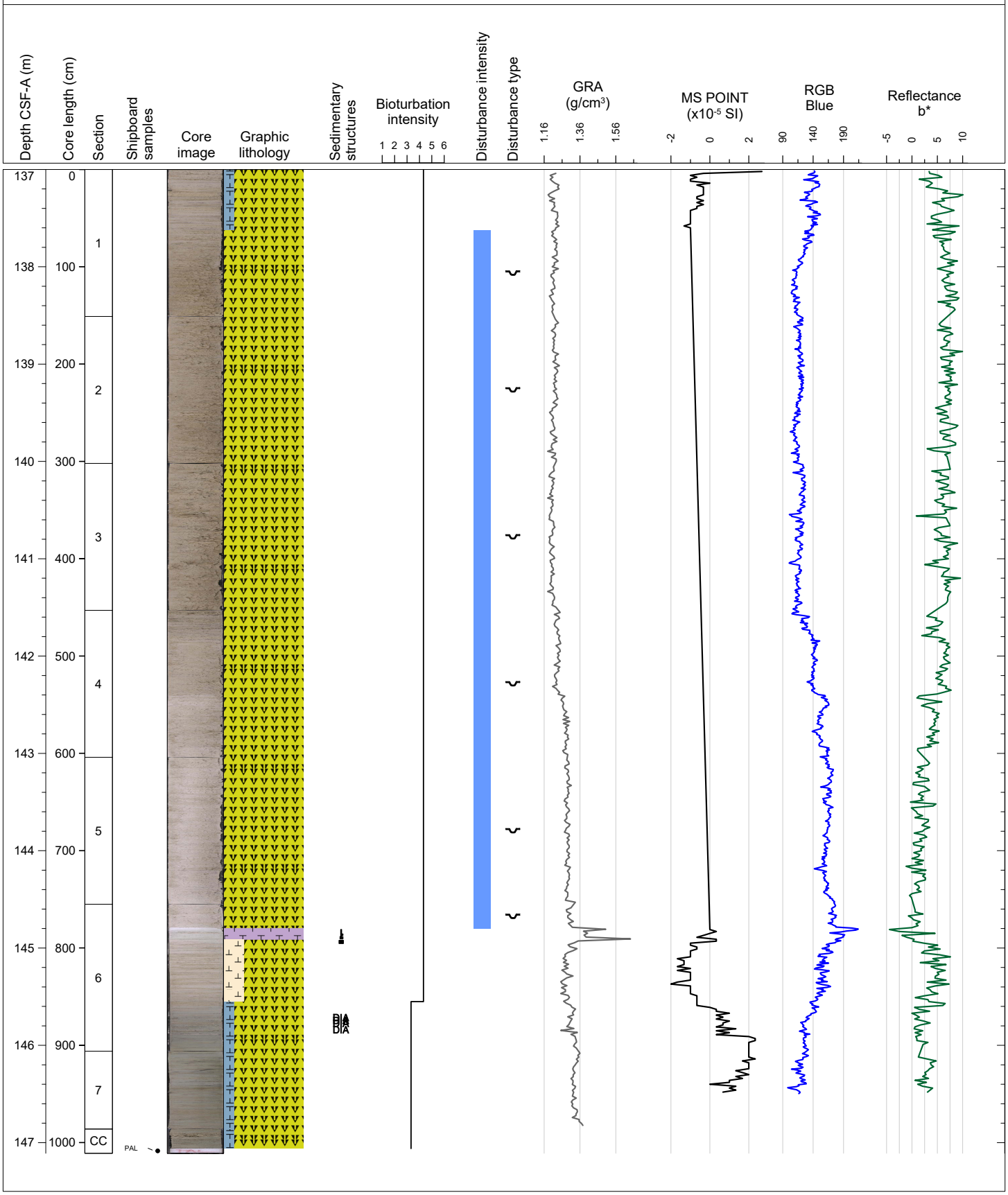
Hole 383-U1539D Core 131, Interval 133.0-133.0 m (CSF-A)

DRILLED INTERVAL



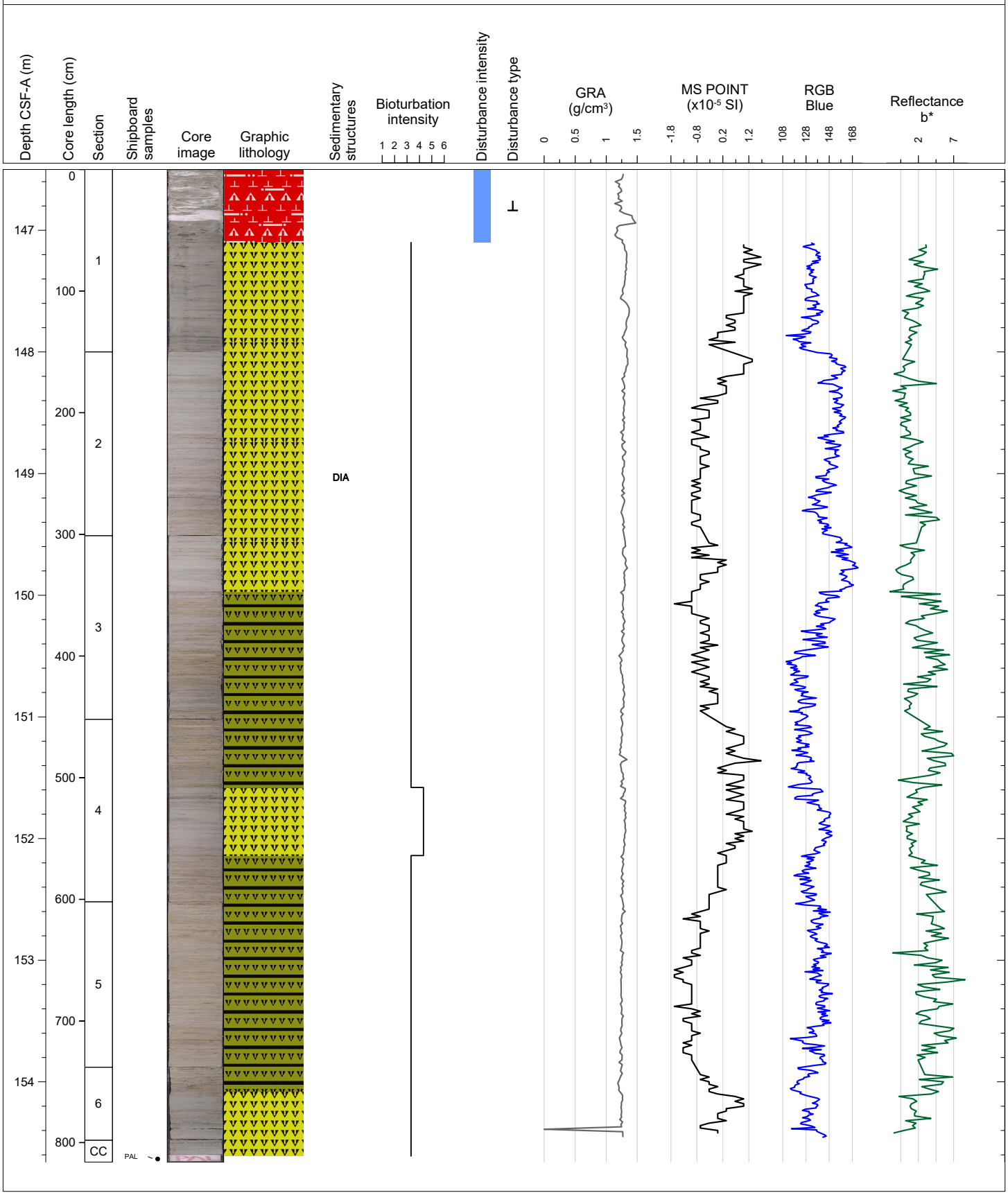
Hole 383-U1539D Core 14H, Interval 137.0-147.11 m (CSF-A)

The primary lithology consists of massive light gray diatom ooze with limited stratification that is underlain by a ~10 cm bed of normal graded foraminfera ooze. The base of Section 6 and Section 7 consists of greenish gray carbonate-bearing diatom ooze with few cm-thick diatom mats.



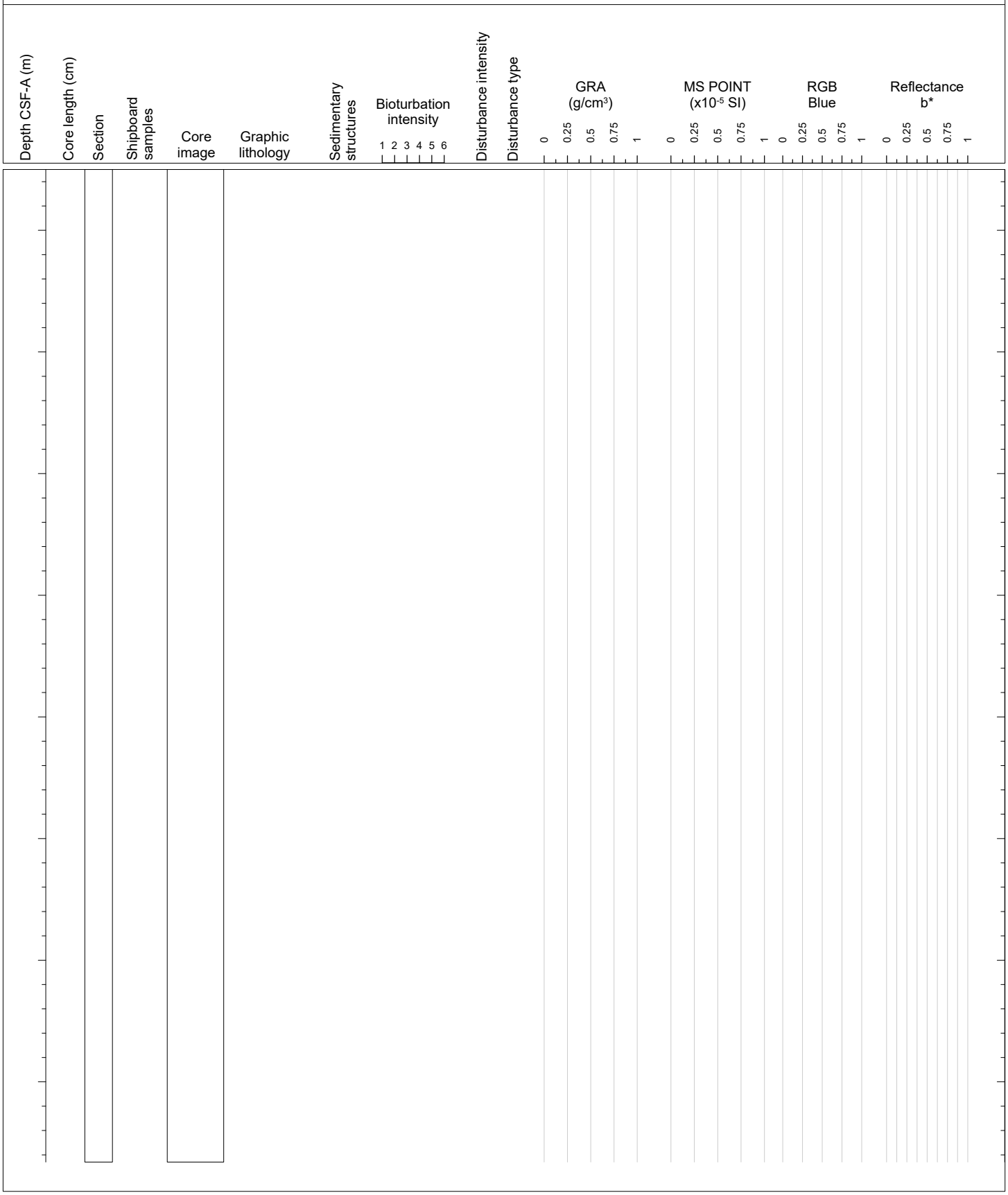
Hole 383-U1539D Core 15H, Interval 146.5-154.66 m (CSF-A)

Fall in, soupy, highly disturbed in upper 60 cm with mixed lithologies; subsequently light greenish gray to light gray diatom ooze with occasional to frequent diatom matts and mottling, and with slight to moderate bioturbation.



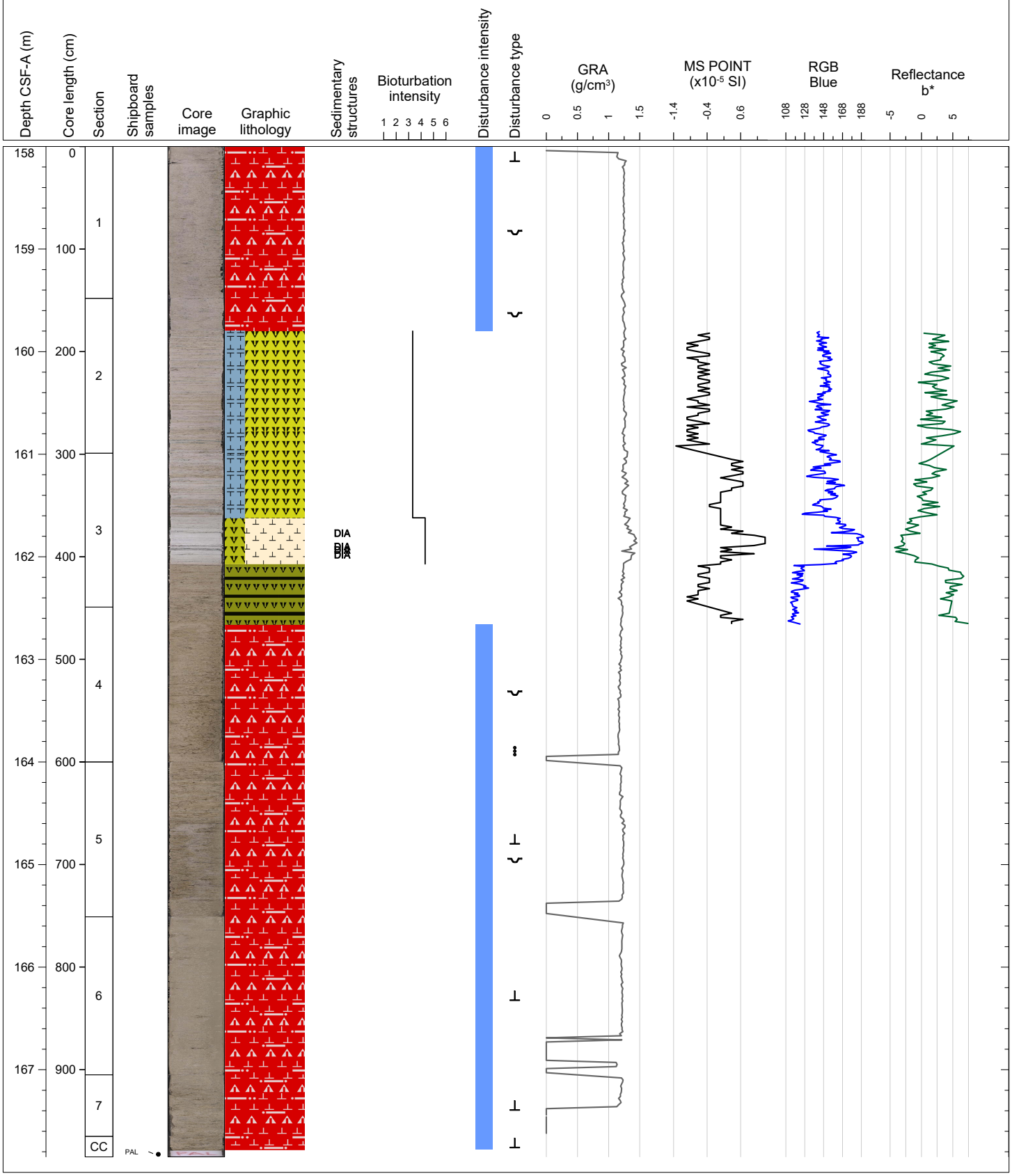
Hole 383-U1539D Core 161, Interval 156.0-156.0 m (CSF-A)

DRILLED INTERVAL



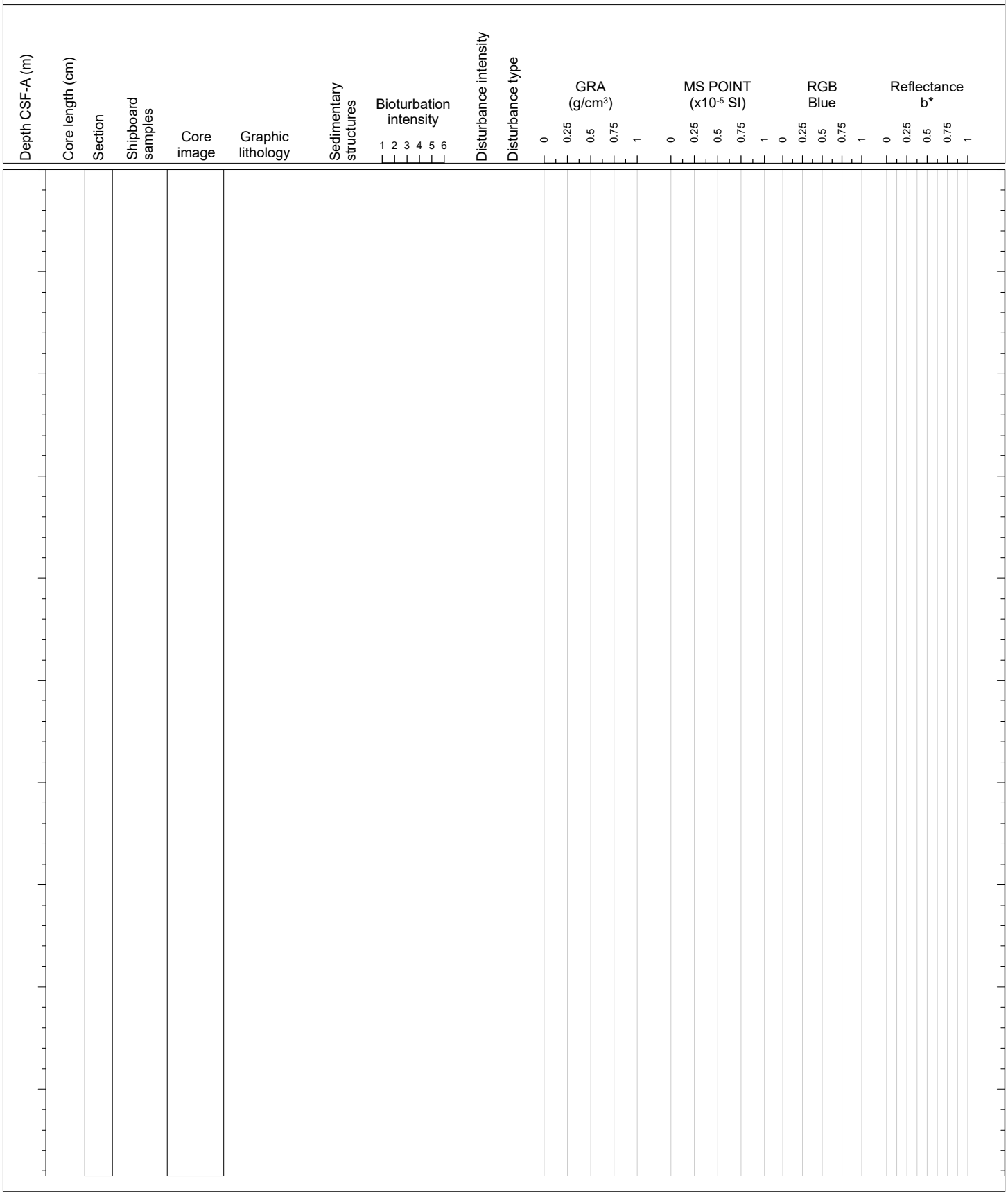
Hole 383-U1539D Core 17H, Interval 158.0-167.85 m (CSF-A)

Fall in, soupy, highly disturbed in top 20 cm; subsequently light gray to light brownish gray diatom ooze at Section 1-5, partly with strong flow-in coring disturbance, intercalated by white diatom-rich nannofossil ooze in Section 3 (63-108 cm), and fall-in, soupy, strong disturbance in Section 6 and cc.



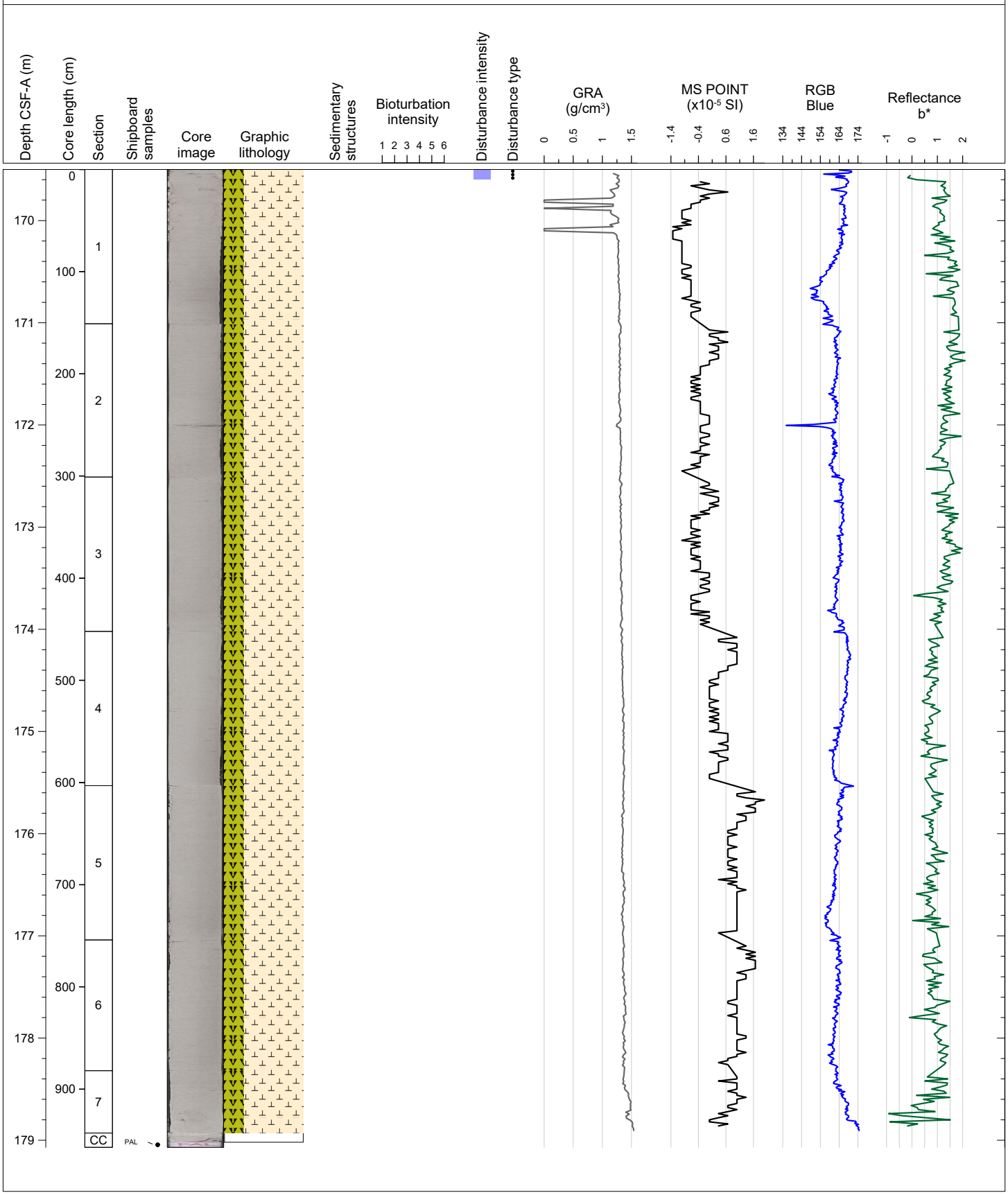
Hole 383-U1539D Core 181, Interval 167.5-167.5 m (CSF-A)

DRILLED INTERVAL



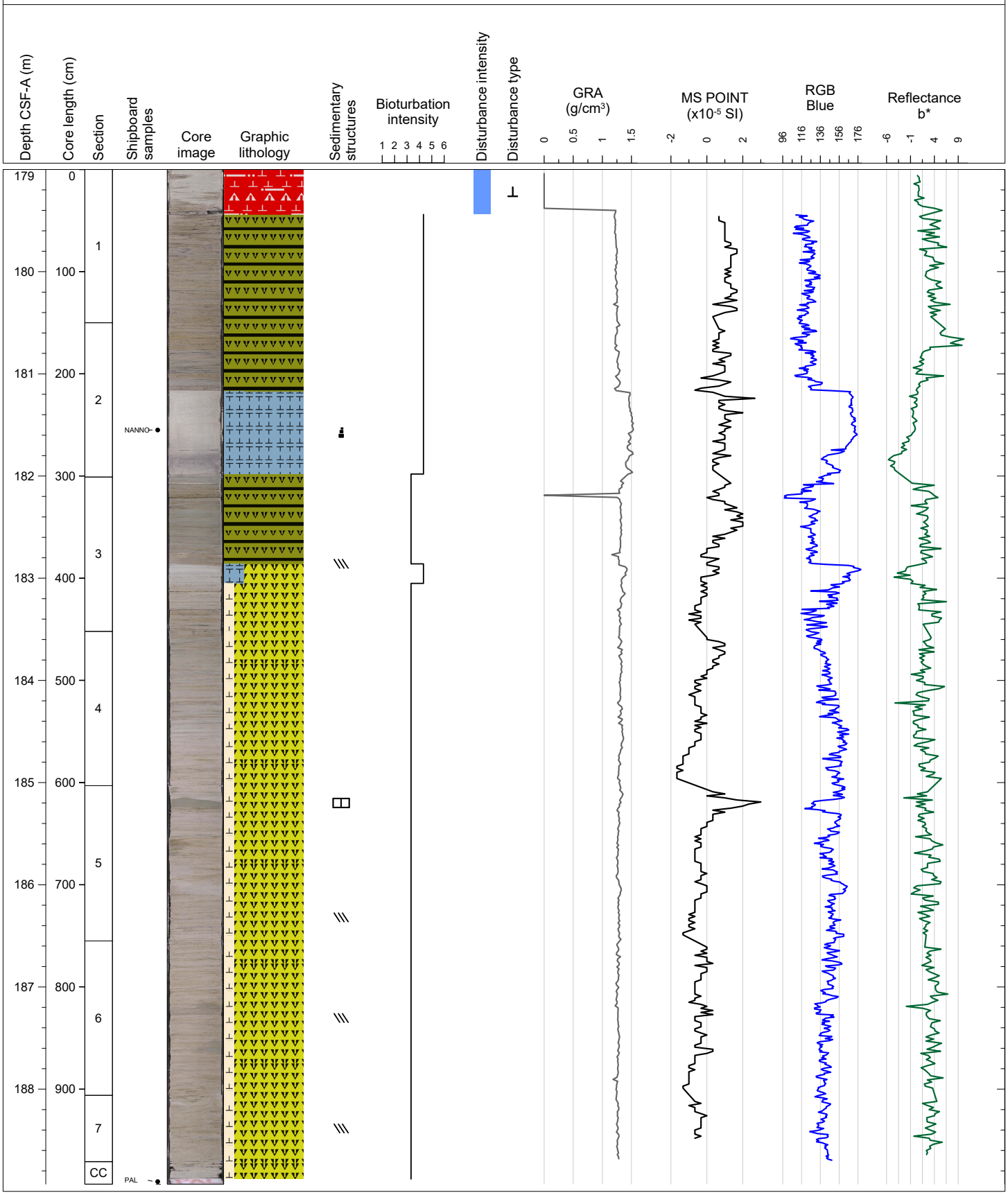
Hole 383-U1539D Core 19H, Interval 169.5-179.07 m (CSF-A)

Light greenish gray diatom-rich nannofossil ooze, homogenous, massive, with few diatom matt clasts; soupy in top 10 cm and with sandy base in cc.



Hole 383-U1539D Core 20H, Interval 179.0-188.93 m (CSF-A)

Fall in, soupy, mixed lithologies in top 44 cm with dropstones; mainly greenish gray to light gray diatom ooze with frequent diatom matts, wavey bedding upward arching and slightly tilted in the lower part. Medium-size carbonate sand (white to gray) with normal graded bedding and erosive lower boundary at 67-148 cm in Section 2.



Hole 383-U1539D Core 21H, Interval 188.5-196.51 m (CSF-A)

Primarily light greenish gray to light gray diatom ooze with occasional to frequent diatom matts, with suck-in or up-arching coring disturbance in upper part of this core.