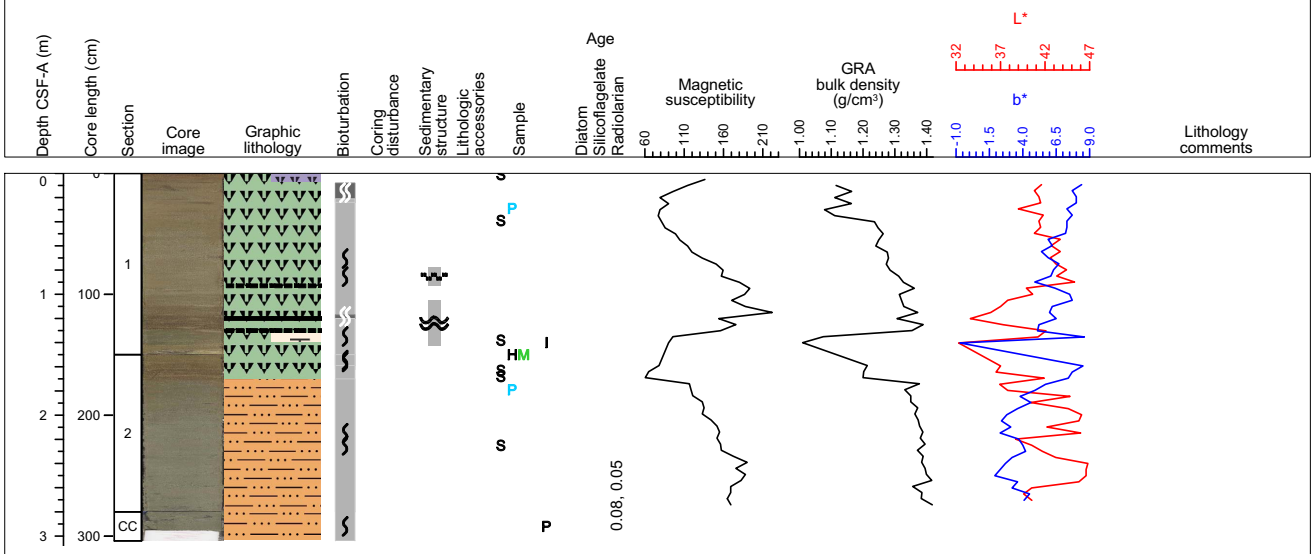
Core Photo

Hole 323-U1341A Core 1H, Interval 0.0-3.04m (CSF-A)

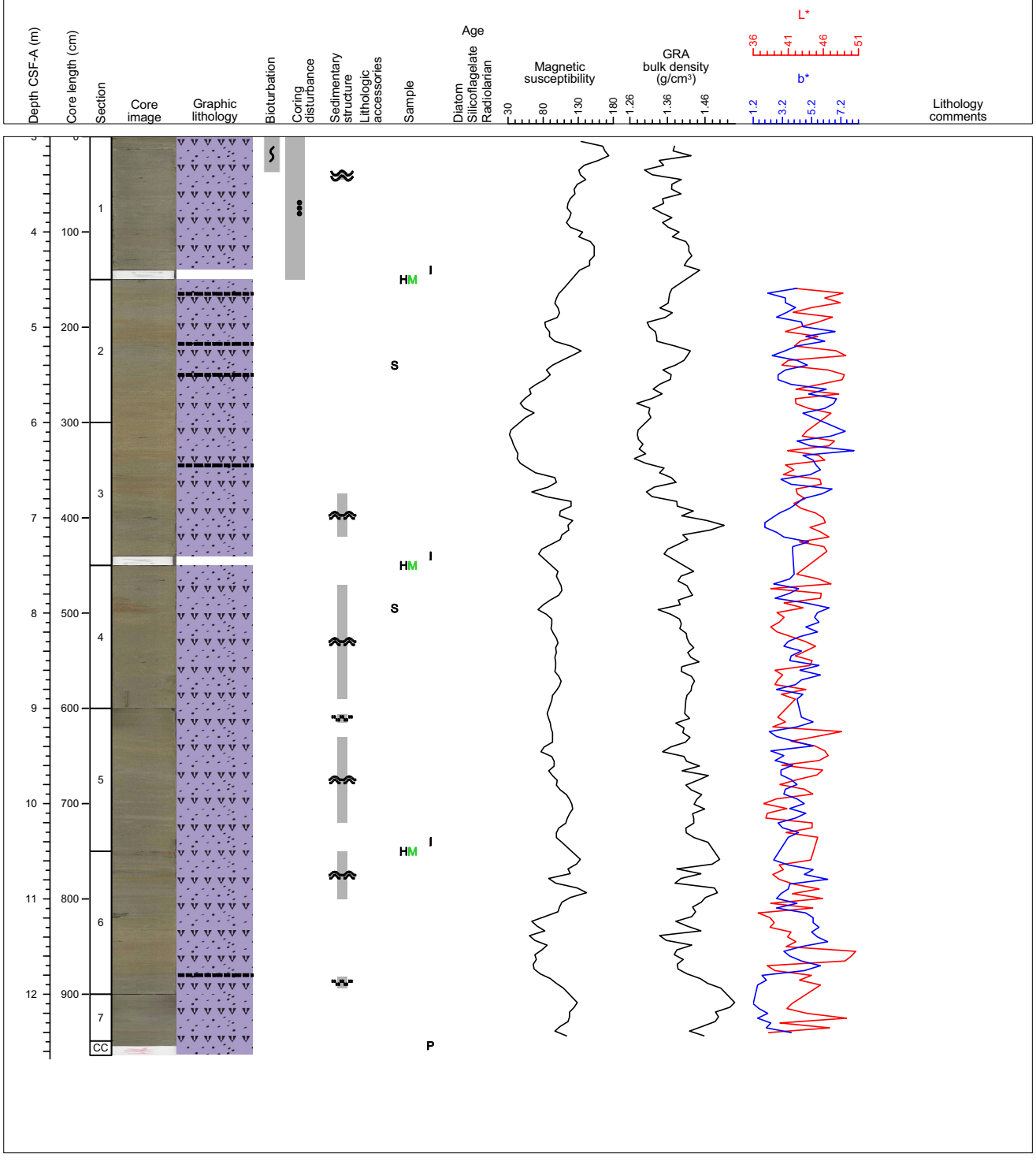
Main lithology: foraminifer and sponge spicule bearing diatom ooze. Secondary lithology: foraminifer and nannofossil-bearing diatom rich clayey silt.
Very laminated layers were observed from the top of Sec. 2 to the bottom of Sec. 1.



Core Photo

Hole 323-U1341A Core 2H, Interval 3.0-12.64m (CSF-A)

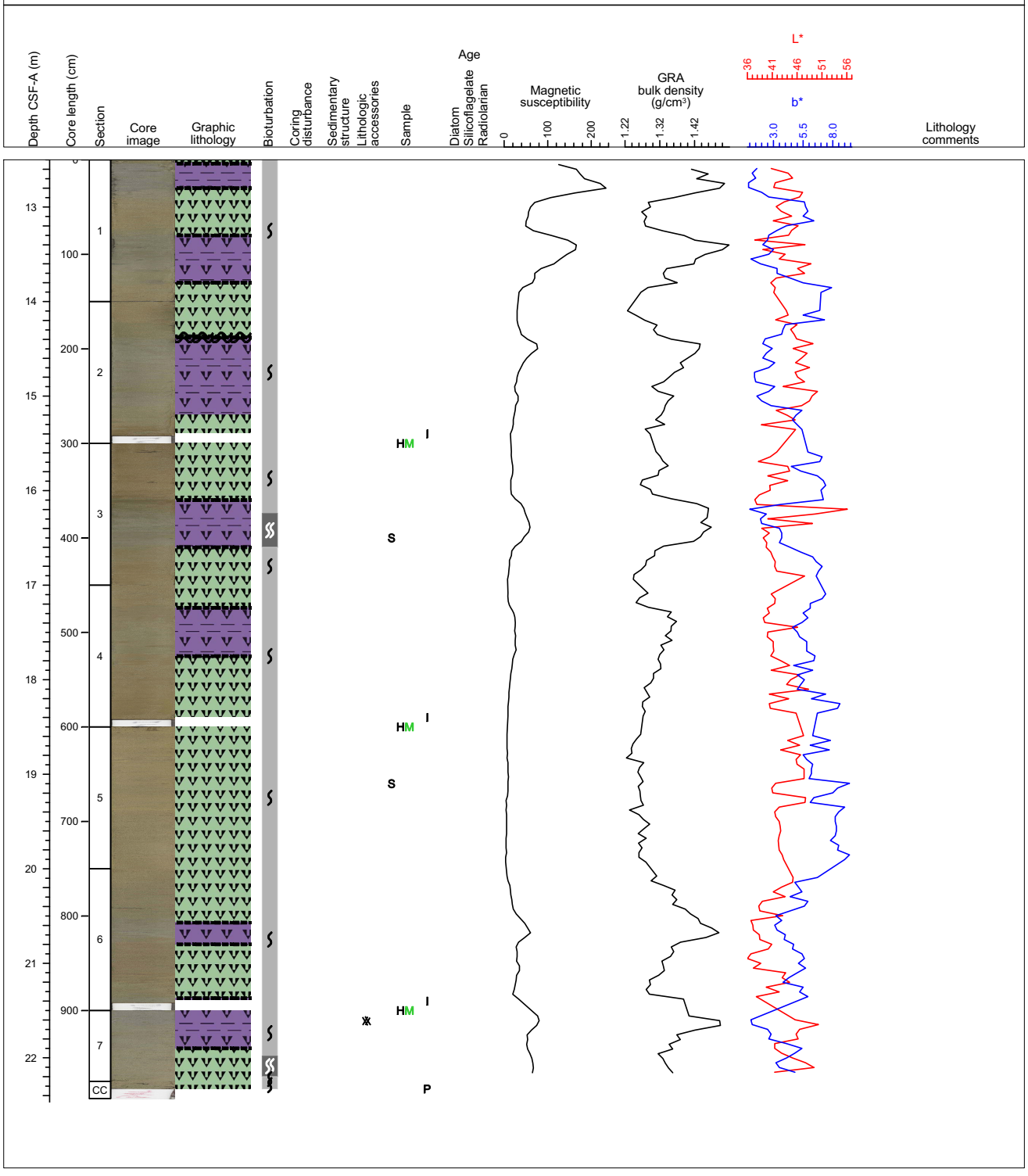
Major lithologies: Soft, grayish, olive diatom silt, soft sediment deformation was observed in sections 2, 3, 4 and 5; several dark-coloured clasts were observed throughout the core; slight to moderate bioturbation.



Core Photo

Hole 323-U1341A Core 3H, Interval 12.5-22.43m (CSF-A)

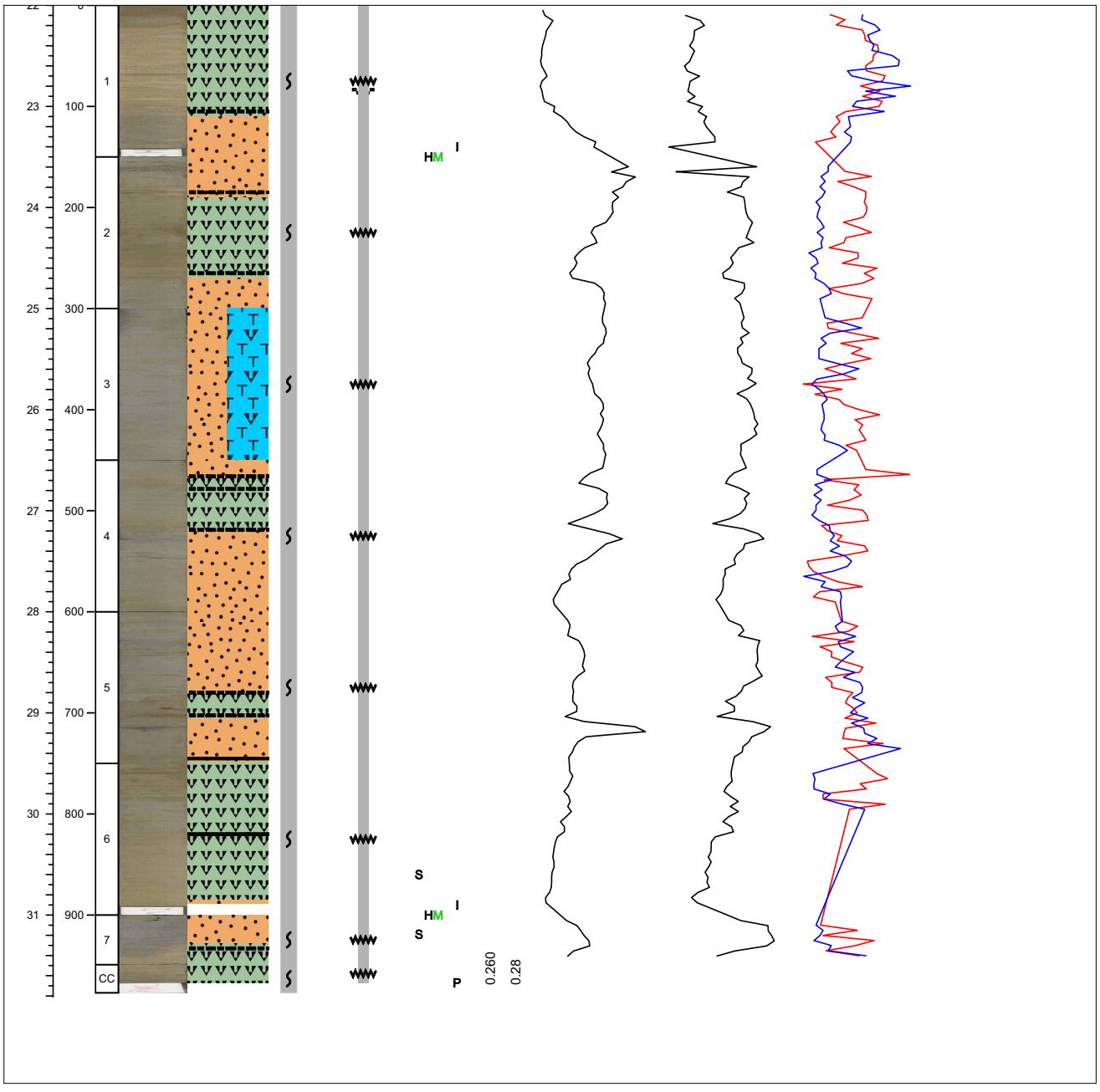
Major lithology is sponge spicule-bearing olive (5Y 5/4) diatom ooze. Secondary lithology is dark greenish grey (10Y 4/1) diatom clayey silt. The two lithologies alternate. Bioturbation is slight to moderate.



Core Photo

Hole 323-U1341A Core 4H, Interval 22.0-31.77m (CSF-A)

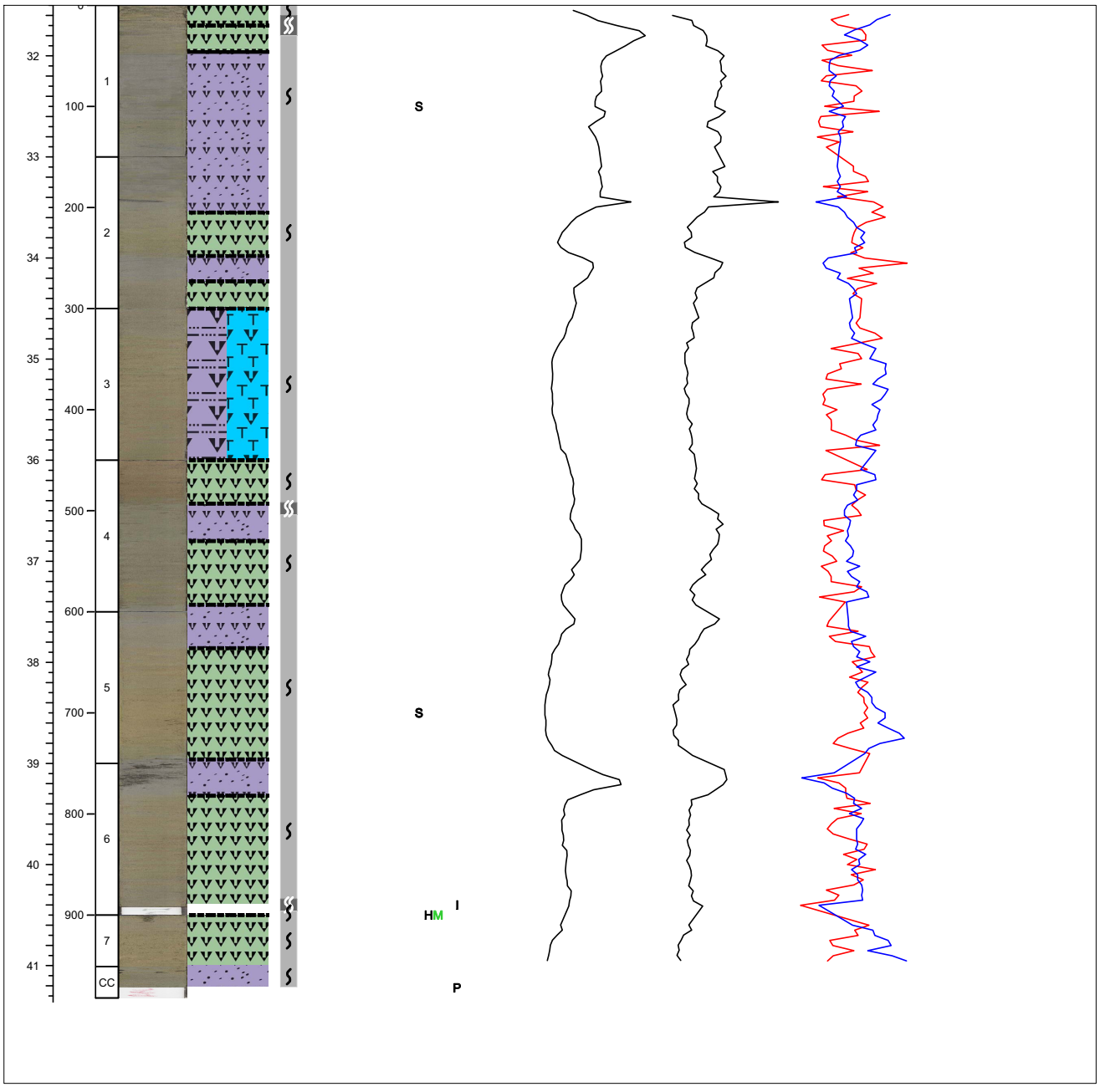
The main lithology is very dark gray diatom-rich silt, the secondary lithology is olive gray diatom ooze which dominates the upper and lower part of the core. An approximately 4 cm thick foraminifer-rich layer occurs at the top of section 2. The core shows mottling throughout.



Core Photo

Hole 323-U1341A Core 5H, Interval 31.5-41.32m (CSF-A)

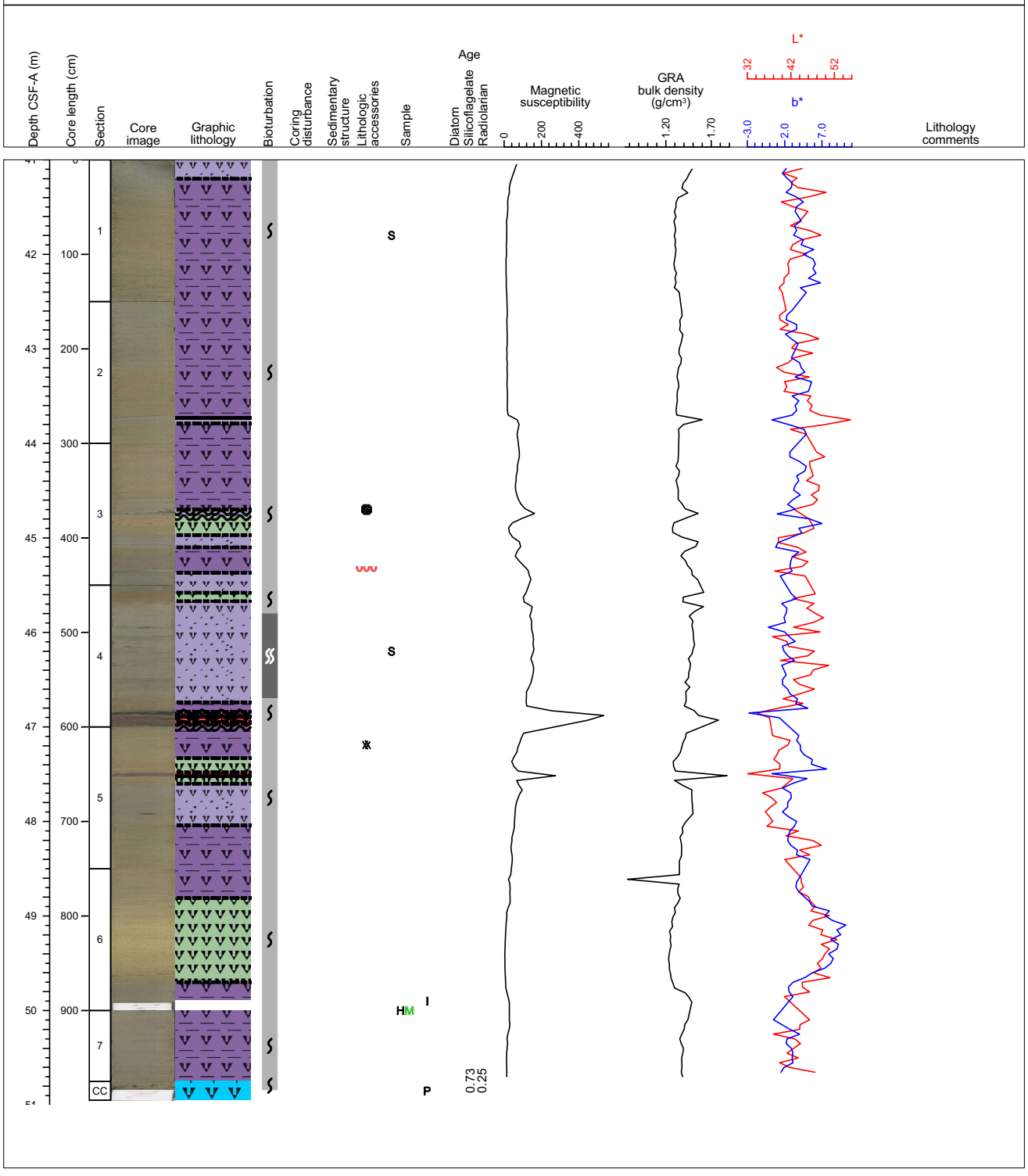
Major lithology is clayey diatom ooze (olive gray 5Y 4/2 to olive 5Y 5/4). Color change is probably caused by diatom content (diatom content is higher in lighter color layers). Secondary lithology is diatom silt (dark greenish gray 5GY 4/1). Several pumice pebbles occur in the top of Section 6. Biotubation is slight to moderate.



Core Photo

Hole 323-U1341A Core 6H, Interval 41.0-50.95m (CSF-A)

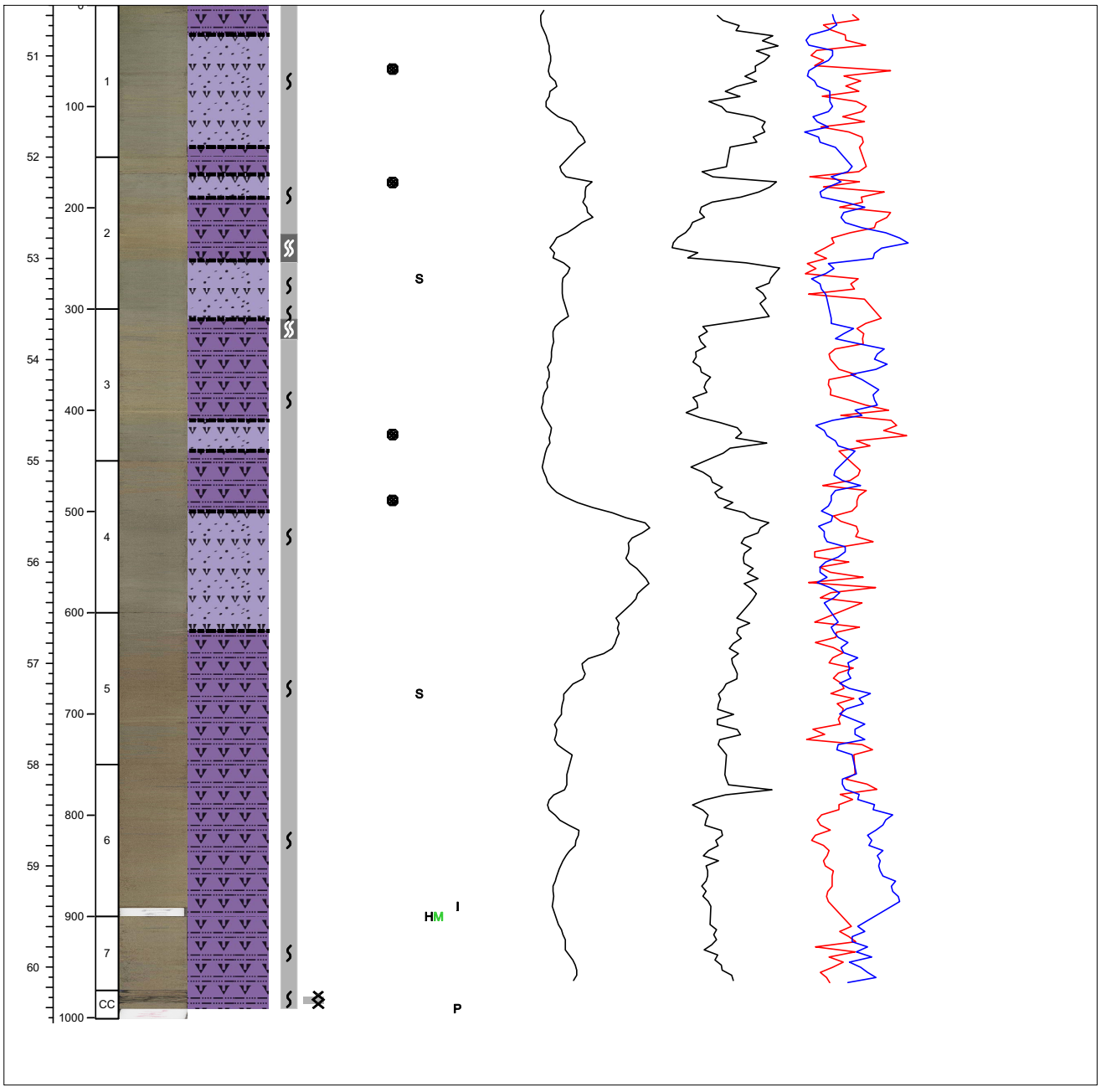
Major lithology is diatom clay (dark olive 5Y 4/2). Secondary lithology is diatom ooze (olive 5Y 5/4). They occurred alternately. Black to brown ashes occur in the bottom of Section 4. Brown ash occurs in Section 5.



Core Photo

Hole 323-U1341A Core 7H, Interval 50.5-60.51m (CSF-A)

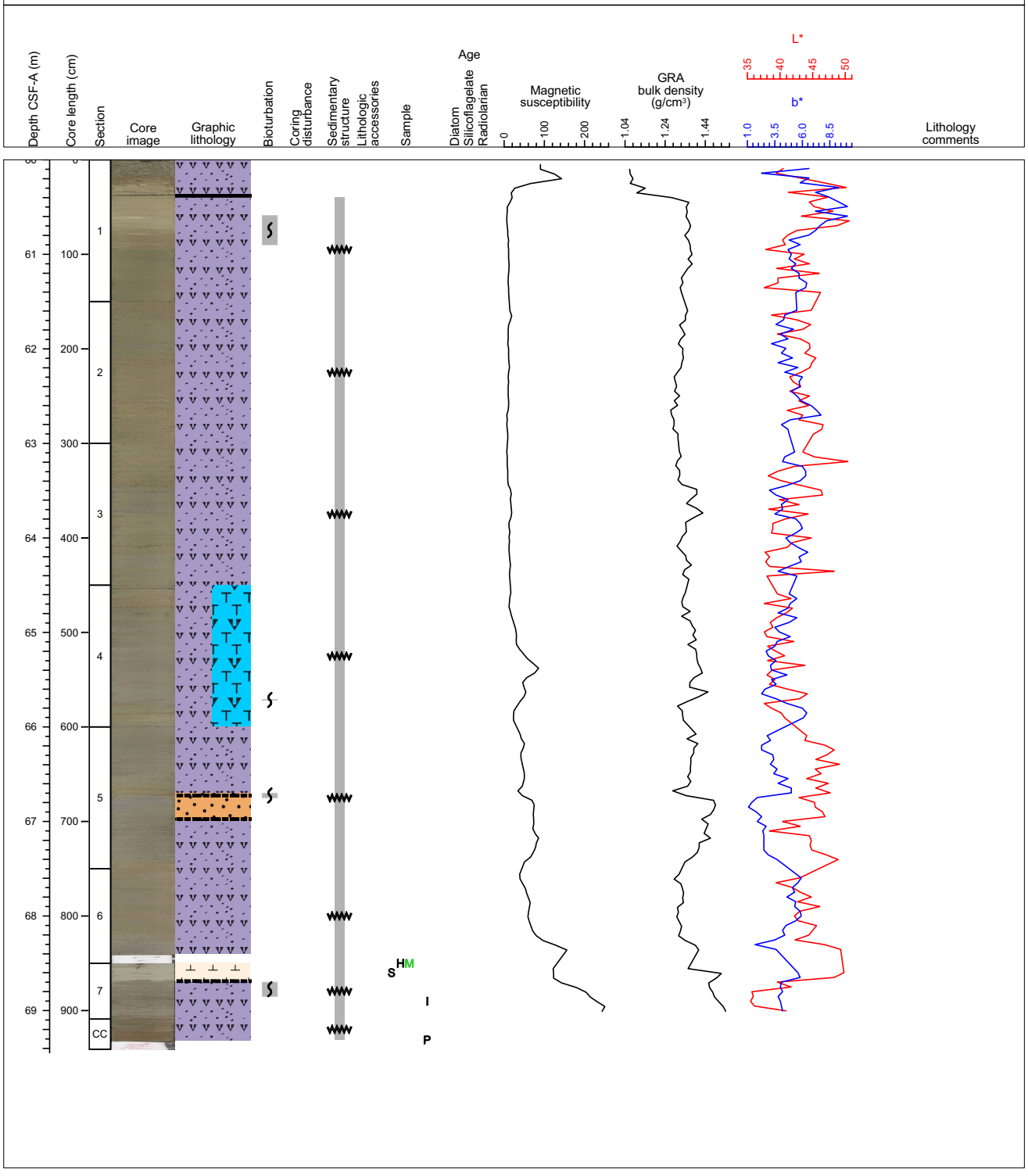
Major lithology is diatom silty clay (olive gray 5Y 4/2). Secondary lithology is diatom silt (dark greenish gray 10Y 4/1). They occur alternately. The boundary between the two lithologies is gradual. Bioturbation is slight to moderate.



Core Photo

Hole 323-U1341A Core 8H, Interval 60.0-69.41m (CSF-A)

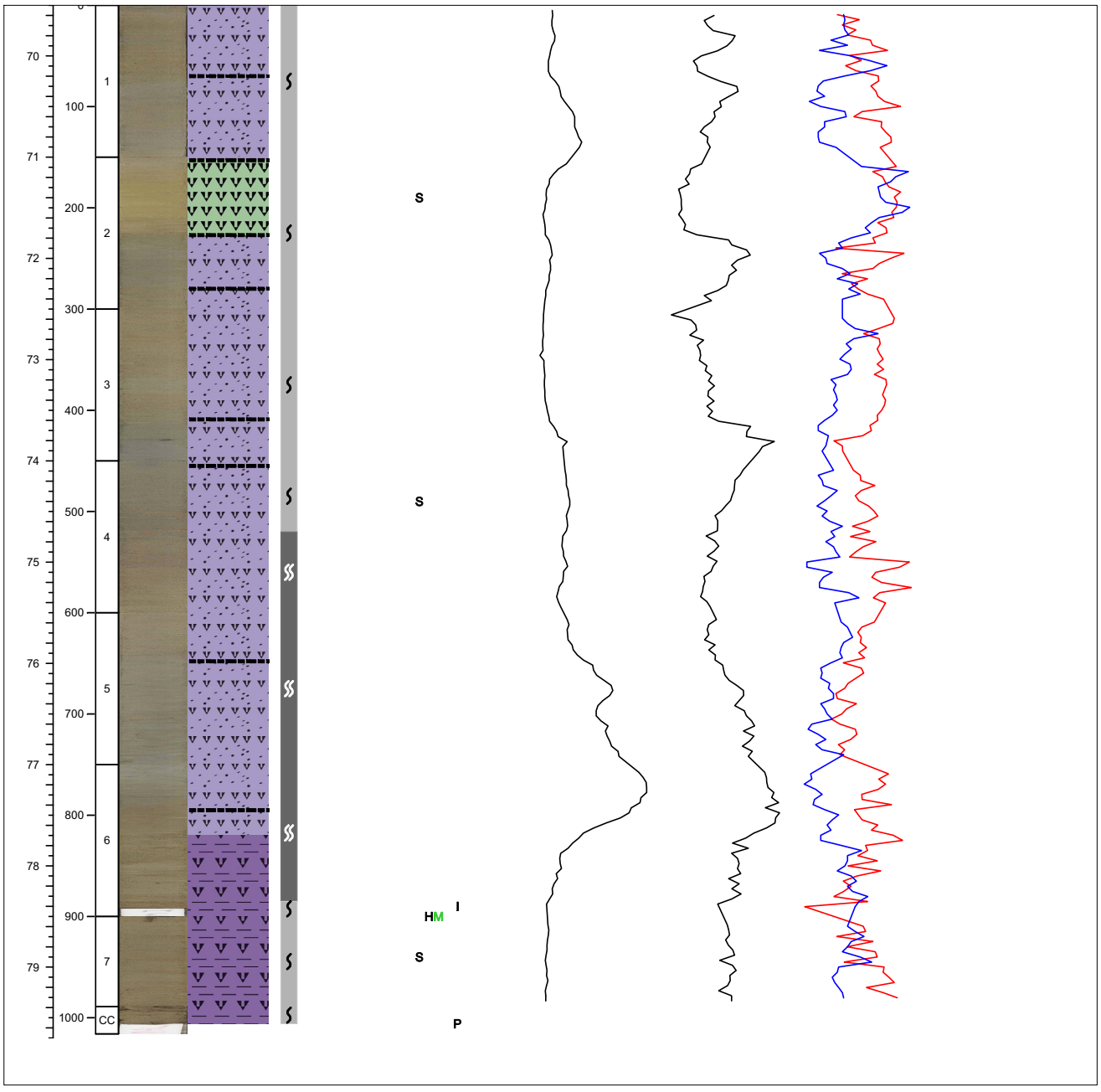
The main lithology is greenish gray diatom silt. The secondary lithology, dark greenish gray diatom-rich silt can be found only in sections 5, 6, and 7. A prominent 20 cm thick gray diatom-rich nannofossil layer is present at the top of section 7. Mottling and bioturbation occur throughout the core.



Core Photo

Hole 323-U1341A Core 9H, Interval 69.5-79.66m (CSF-A)

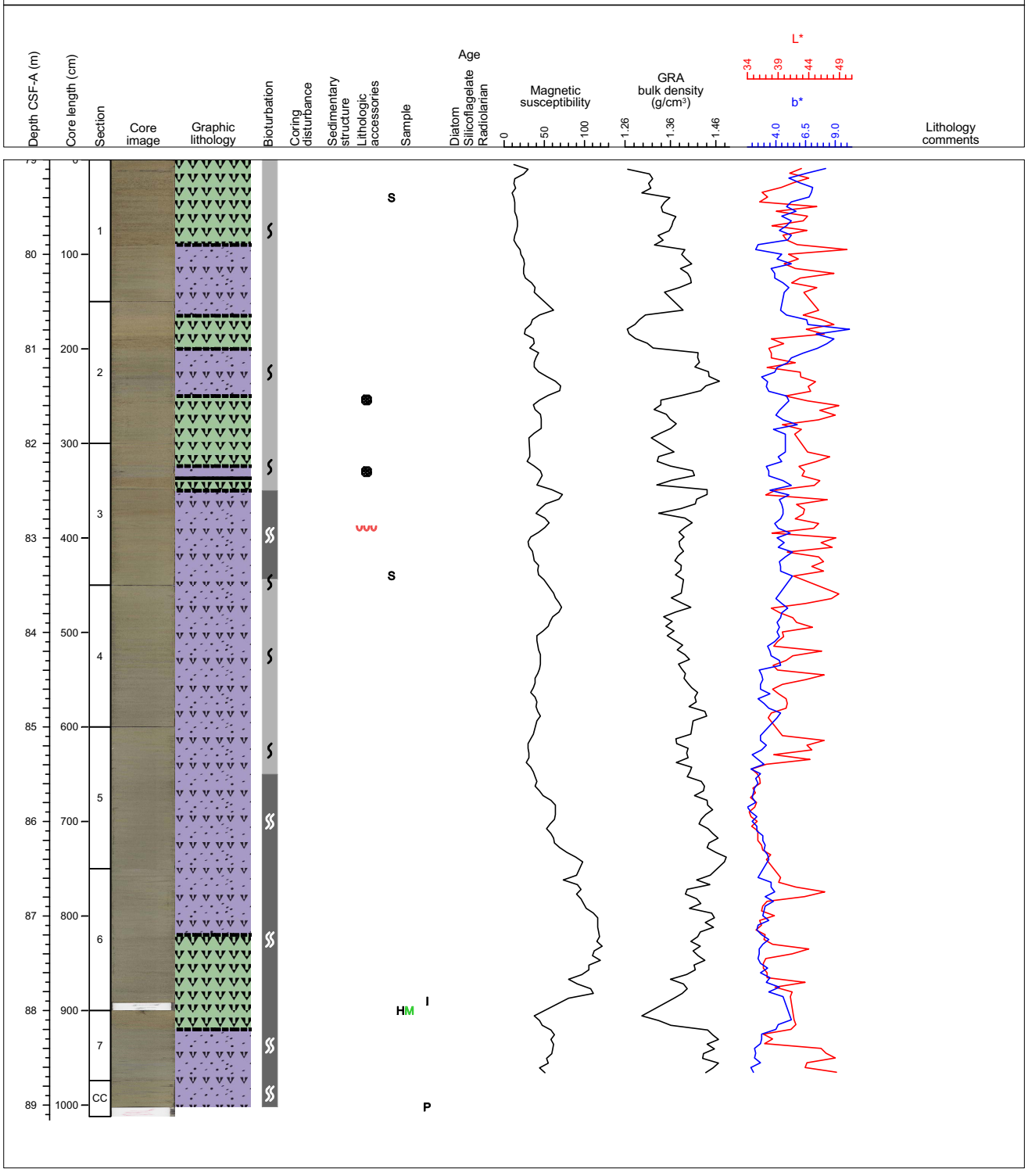
Major lithology is diatom silt (dark greenish grey 10Y 4/1 to olive grey 5Y 4/2). Secondary lithology is diatom clay. The secondary lithology occurs in Section 6 to CC. Only in Section 2; nanofossil-rich diatom ooze (olive 5Y 4/3) occurs as minor lithology. From Section 4 to Section 6; many burrows were recognized.



Core Photo

Hole 323-U1341A Core 10H, Interval 79.0-89.12m (CSF-A)

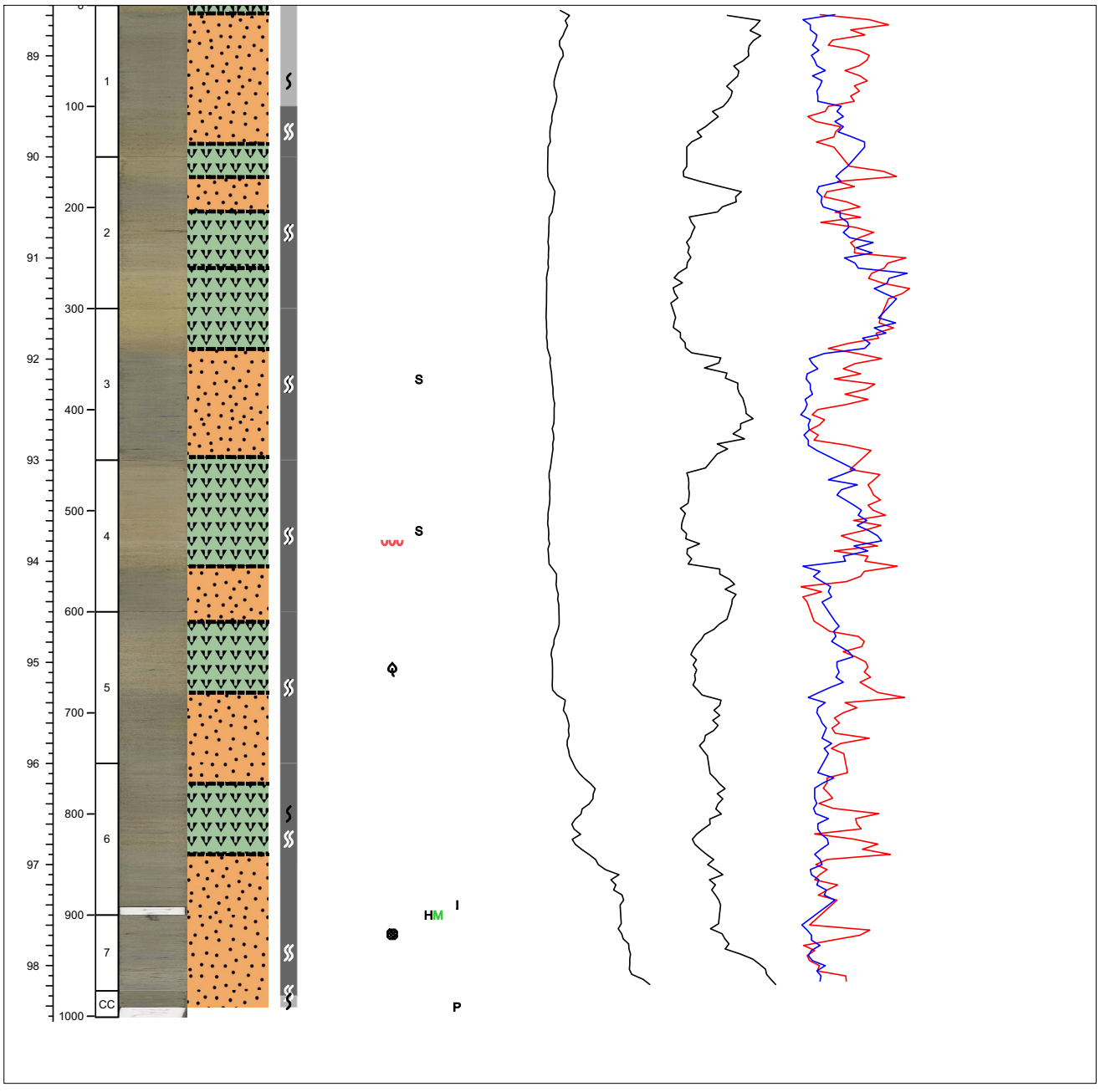
Major lithology is diatom silt (dark greenish grey 10Y 4/1). Secondary lithology is nanofossil-bearing diatom ooze (olive 5Y 4/3)). The two alternate through the core. In Section 2, nanofossil-rich diatom ooze (olive 5Y 4/4) occurs as a minor lithology. Bioturbation is slight to moderate. From Section 5 to CC; many burrows were recognized.



Core Photo

Hole 323-U1341A Core 11H, Interval 88.5-98.51m (CSF-A)

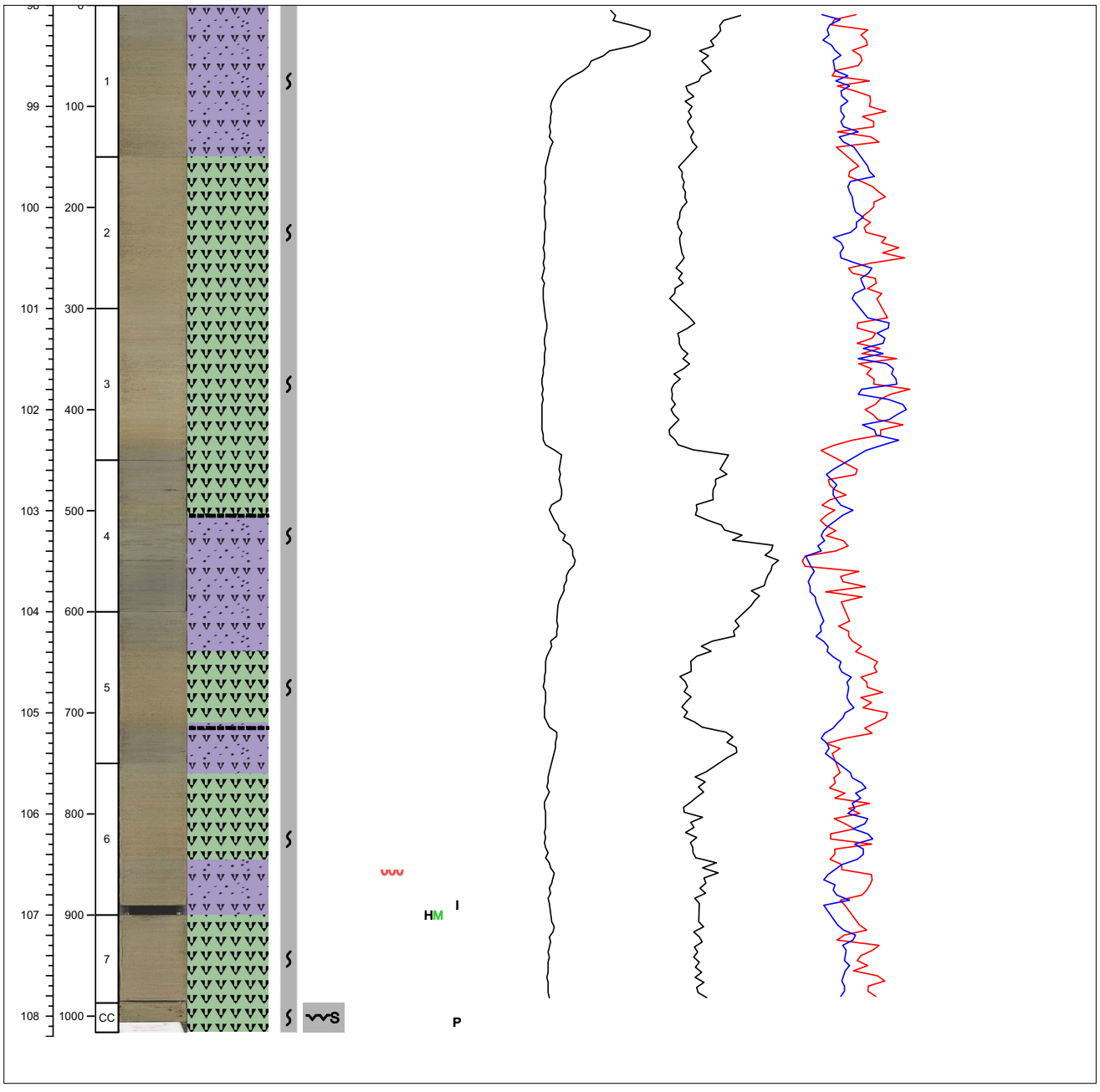
Major lithology is silicoflagellate-rich diatom ooze (dark olive 5Y 4/2 to olive 5Y 5/3). Secondary lithology is diatom-rich silt (dark greenish gray 10Y 4/1). They occur alternately. Bioturbation is slight to moderate. A wood fragment occurs in Section 5 (57-58cm).



Core Photo

Hole 323-U1341A Core 12H, Interval 98.0-108.16m (CSF-A)

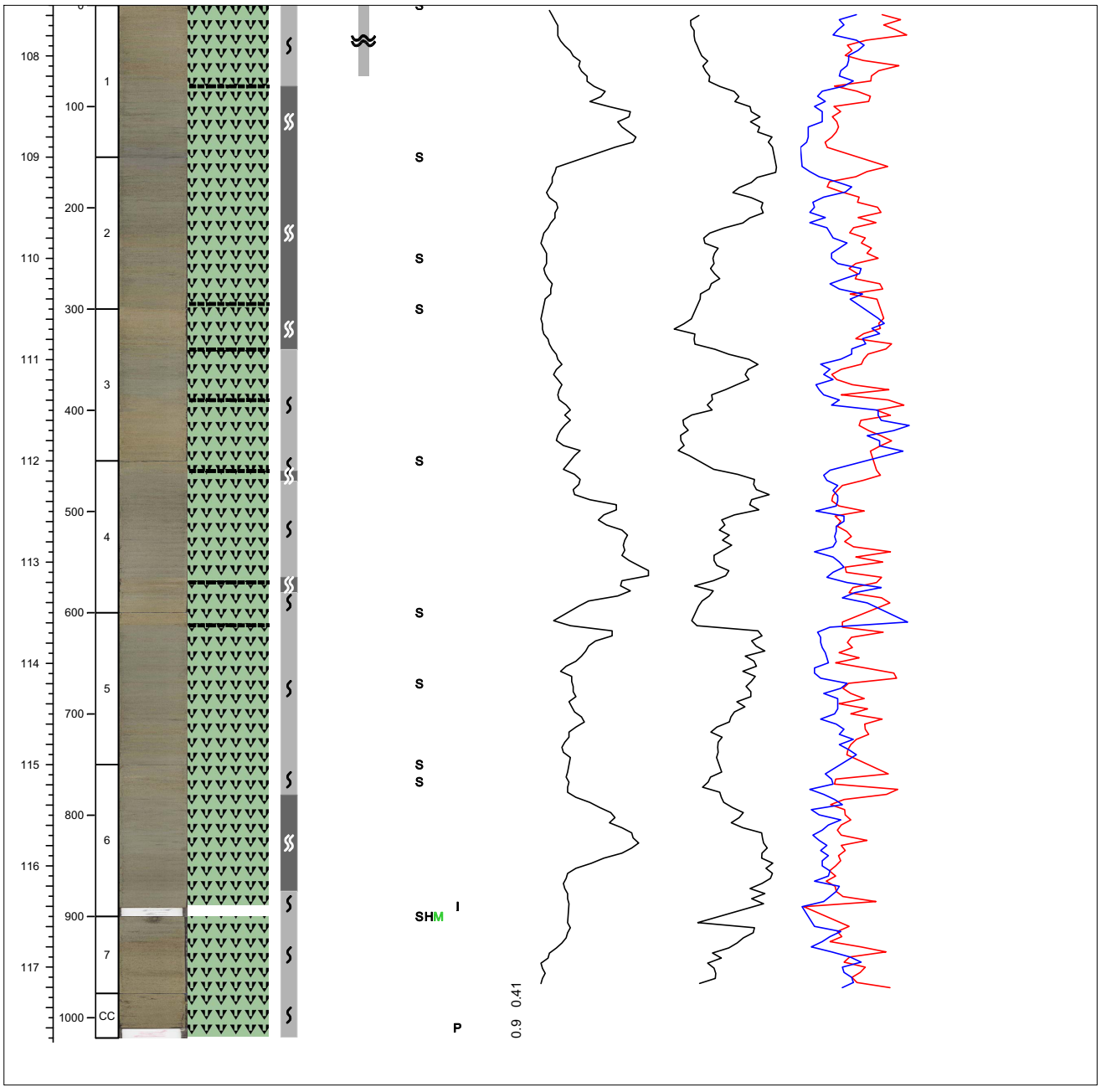
Main lithology is given by the alternation between dark (10Y 4/1) diatom silt and olive grey (5Y 4/3 and 5Y 4/2) diatom ooze.



Core Photo

Hole 323-U1341A Core 13H, Interval 107.5-117.7m (CSF-A)

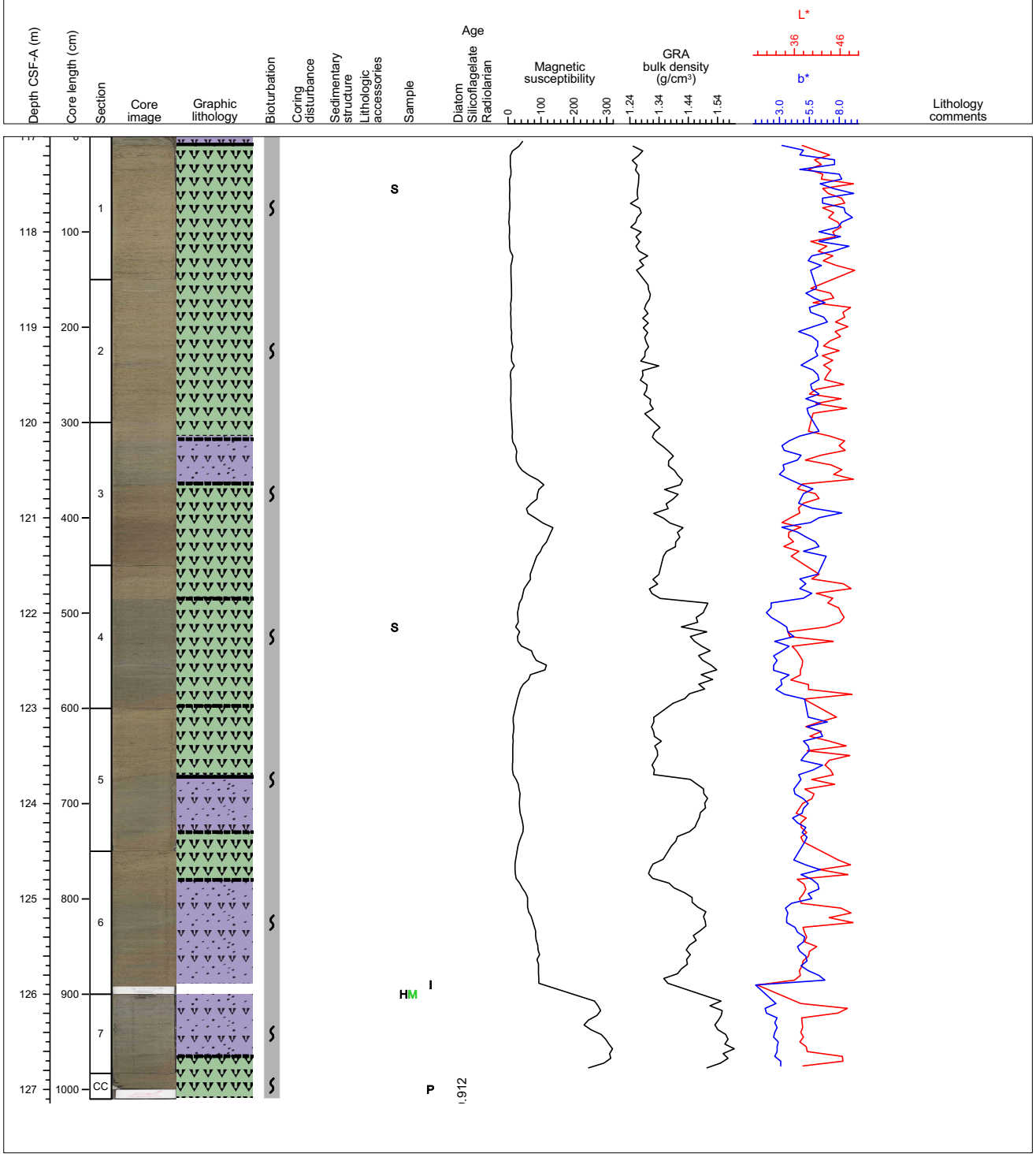
Major lithology: Dark greenish gray to olive diatom ooze, meter-scale colour alternations between more or less greenish material; gradational bioturbated boundaries; slight to moderate bioturbation; no drilling disturbance.



Core Photo

Hole 323-U1341A Core 14H, Interval 117.0-127.1m (CSF-A)

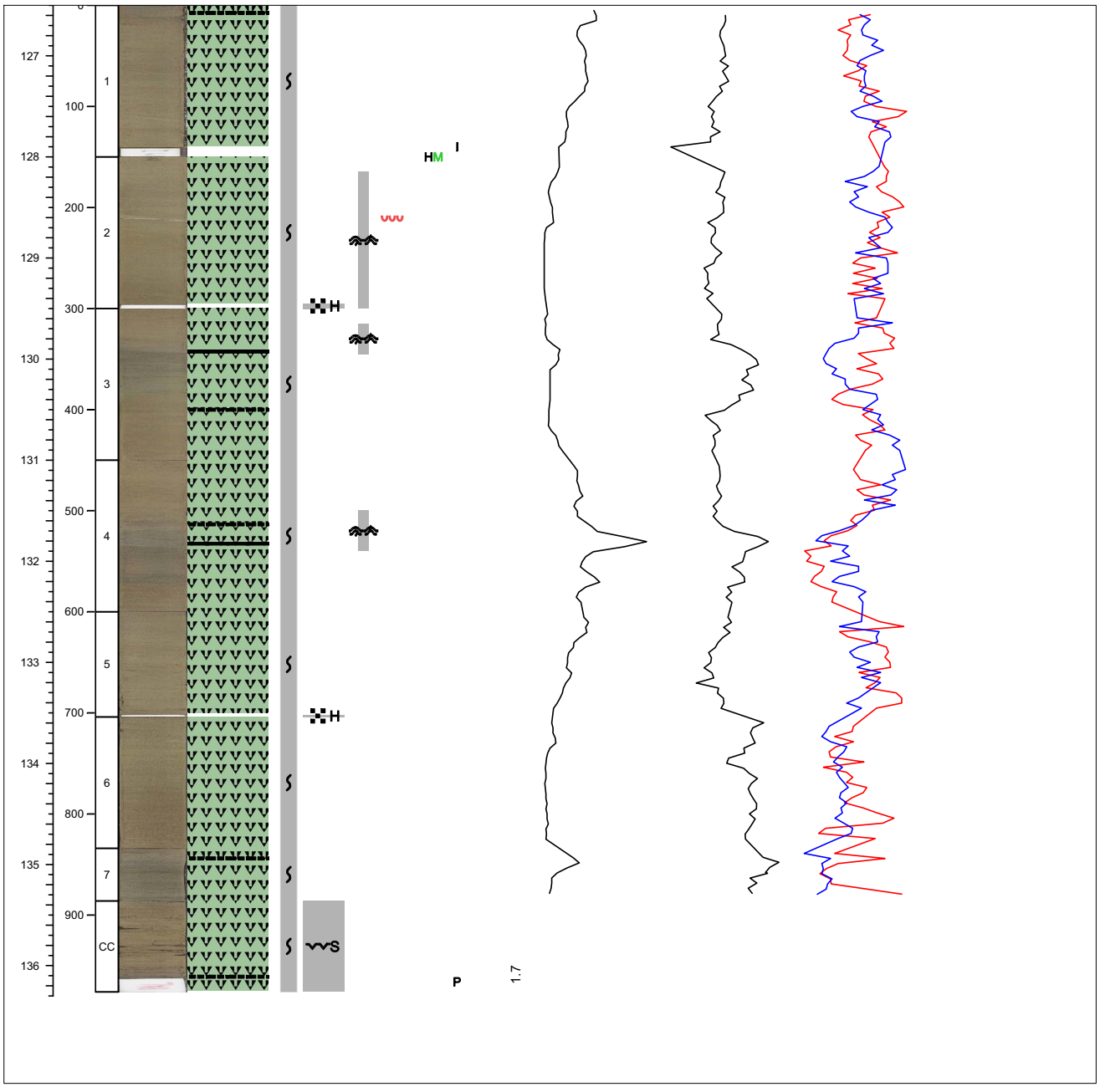
Major lithology: Dark greenish gray to olive diatom ooze, partly silicoflagellate-bearing, with meter-scale alternations and mostly gradational bioturbated boundaries; tilted contact in section 5; slight bioturbation; no drilling disturbance



Core Photo

Hole 323-U1341A Core 15H, Interval 126.5-136.26m (CSF-A)

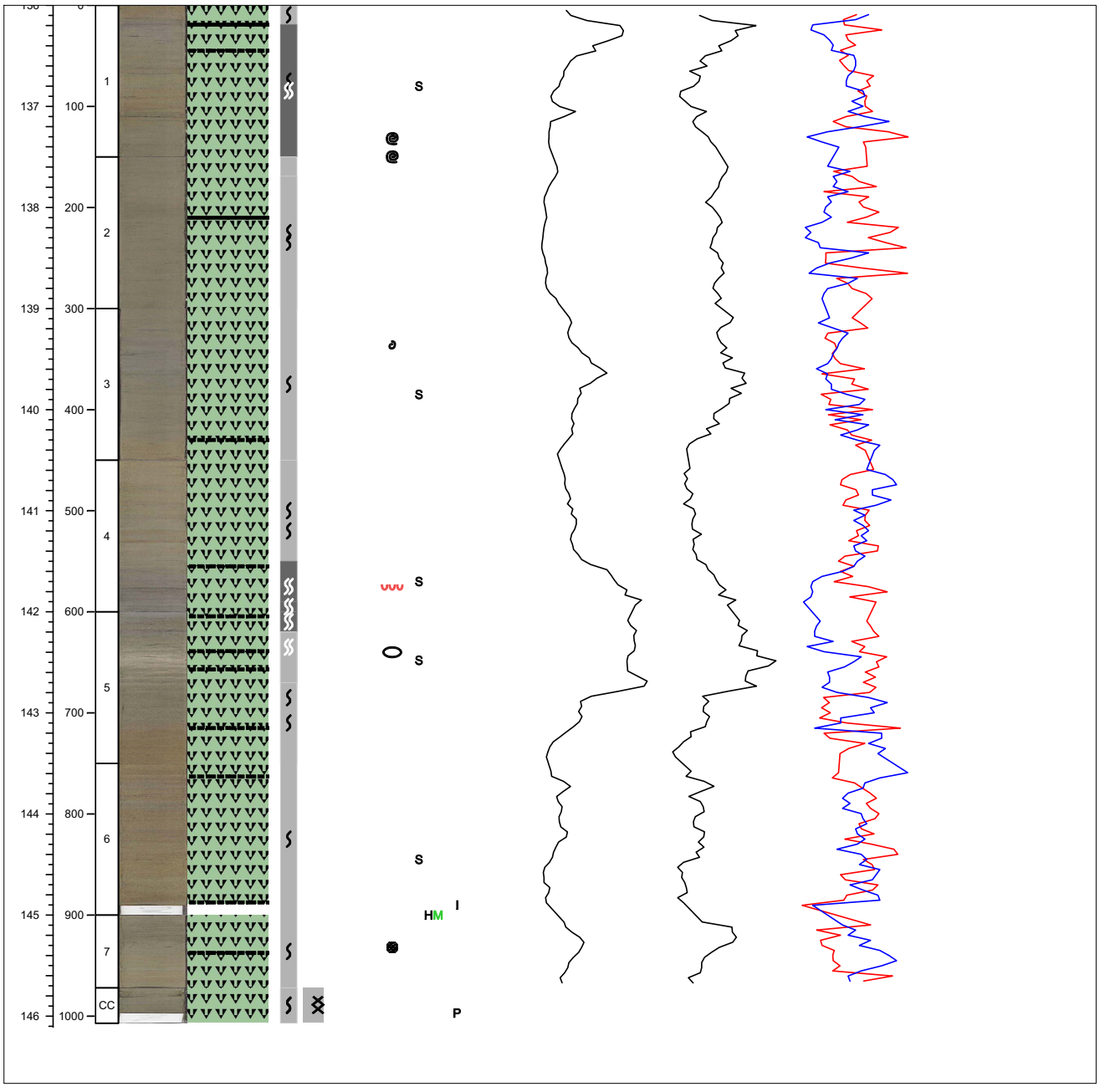
Major lithologies: Mostly olive, sometimes grayish-olive diatom ooze with mostly gradational, sometimes sharp boundaries between color changes; tilted boundaries in sections 3, 4 and 5; slight bioturbation; no to slight drilling disturbance.



Core Photo

Hole 323-U1341A Core 16H, Interval 136.0-146.07m (CSF-A)

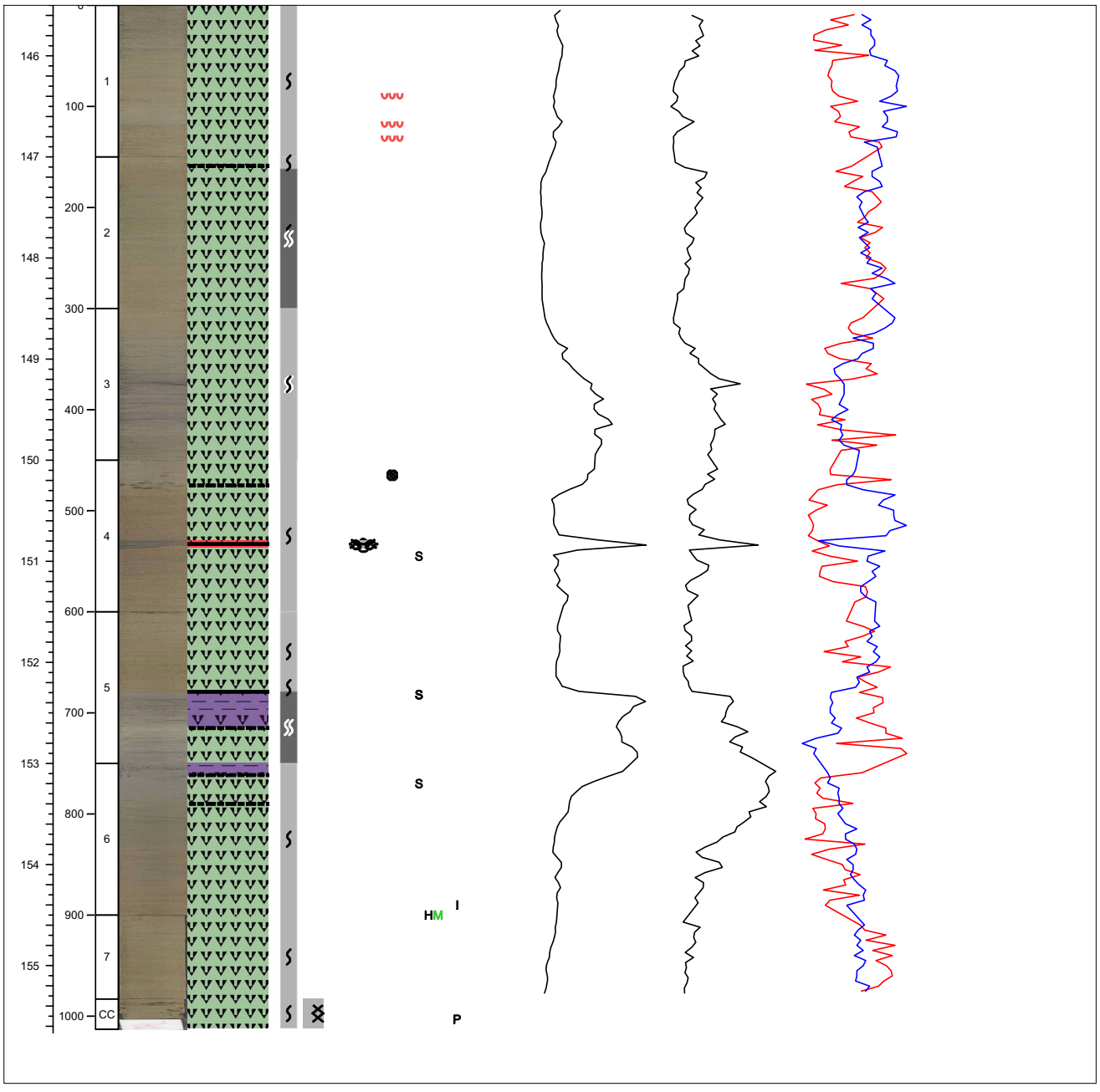
Major lithologies: Soft dark greenish gray to olive diatom ooze; gray semilithified authigenic carbonate-rich diatom ooze in section 5; mostly gradual, some sharp transitions between different colours; slight to moderate bioturbation; no to slight drilling disturbance



Core Photo

Hole 323-U1341A Core 17H, Interval 145.5-155.63m (CSF-A)

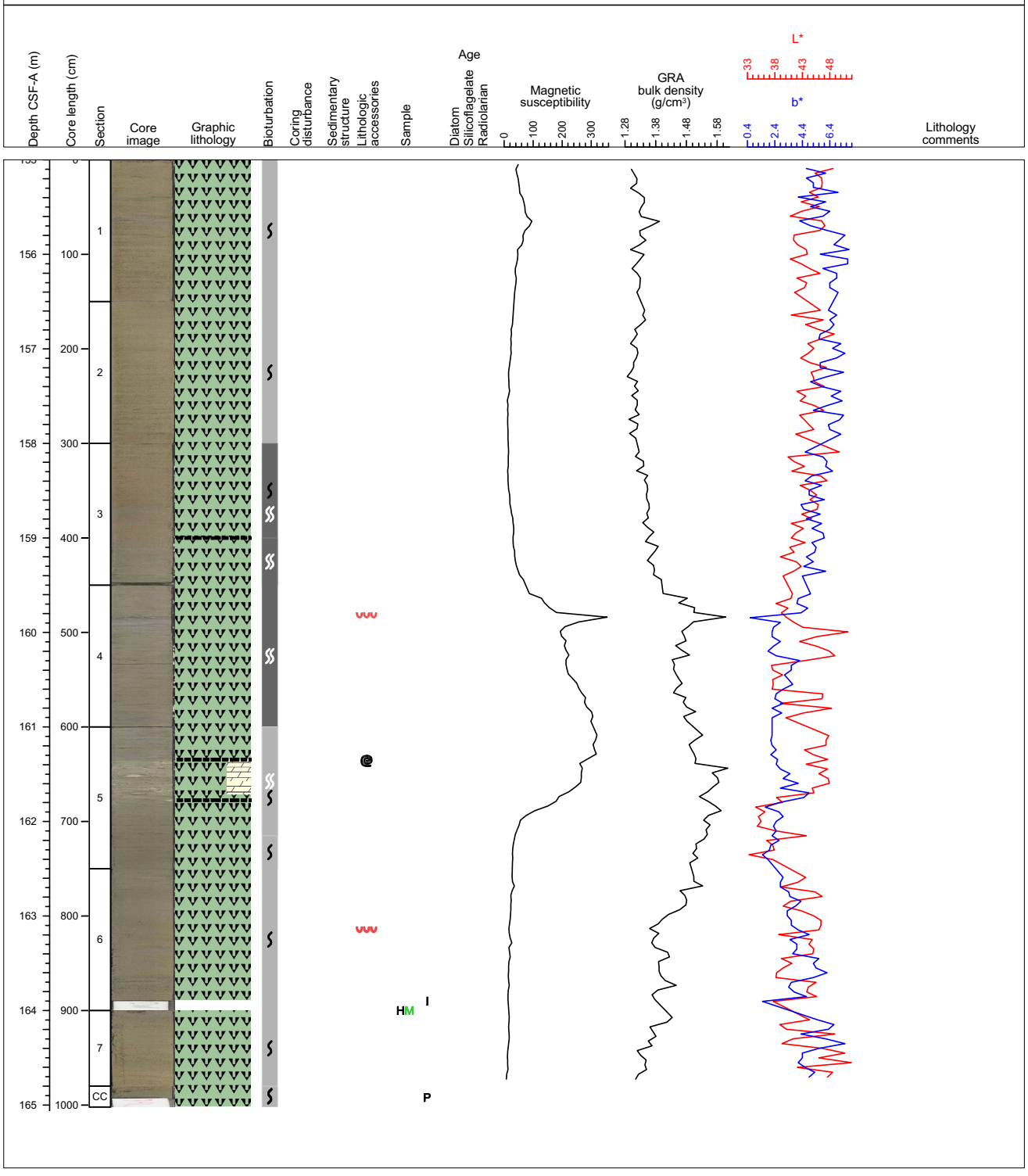
Major lithologies: Soft dark grayish olive to olive diatom ooze, with gradational and bioturbated boundaries; gray diatom clay in lower section 5 and upper section 6, with gradational base and sharp top; clast horizon in upper section 4; sharp deformed ash layer with bottom cast in middle of section 4; slight to moderate bioturbation; no drilling disturbance



Core Photo

Hole 323-U1341A Core 18H, Interval 155.0-165.02m (CSF-A)

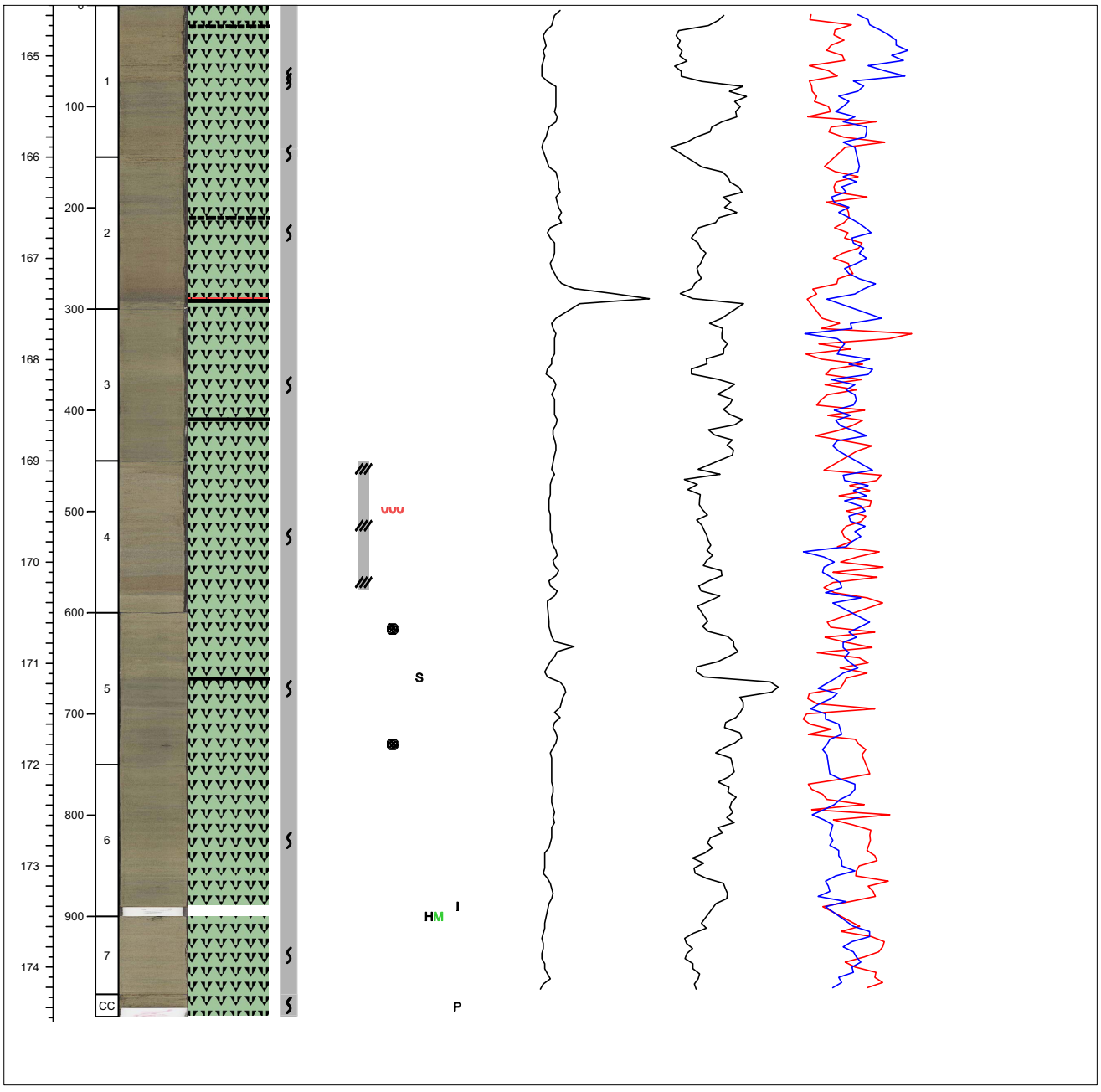
Major lithologies: Soft dark grayish olive to olive diatom ooze; interval with semilithified carbonate nodules of up to 4 cm diameter dispersed in light gray sediment in section 5; gradational boundaries between different colours; moderate bioturbation in sections 3, 4 and 5, slight bioturbation in other sections; no drilling disturbance



Core Photo

Hole 323-U1341A Core 19H, Interval 164.5-174.49m (CSF-A)

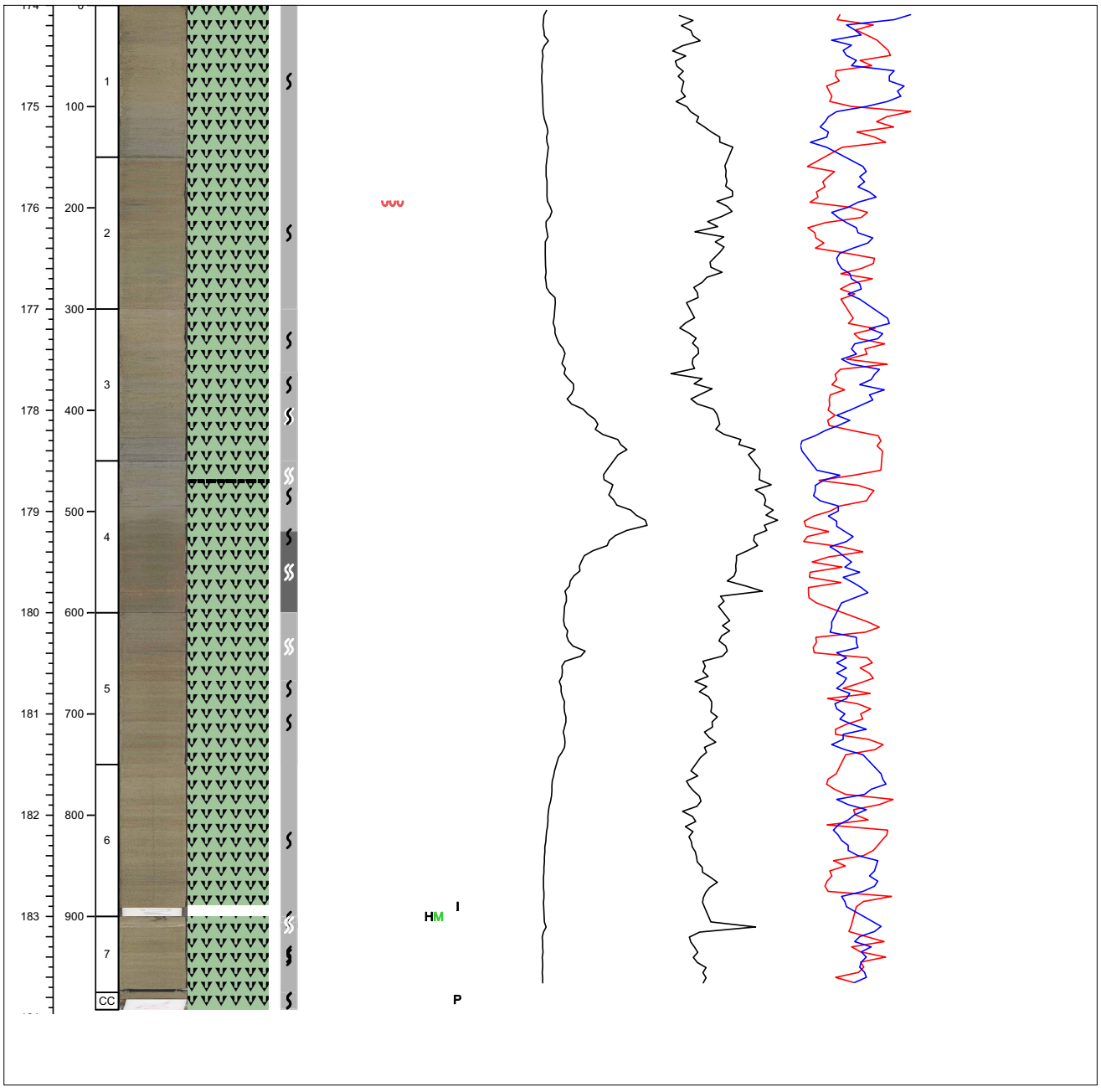
Main lithology: diatom ooze. Secondary lithology: diatom silt. Tilted beds likely due to soft sediment deformation were observed in Section 4.



Core Photo

Hole 323-U1341A Core 20H, Interval 174.0-183.92m (CSF-A)

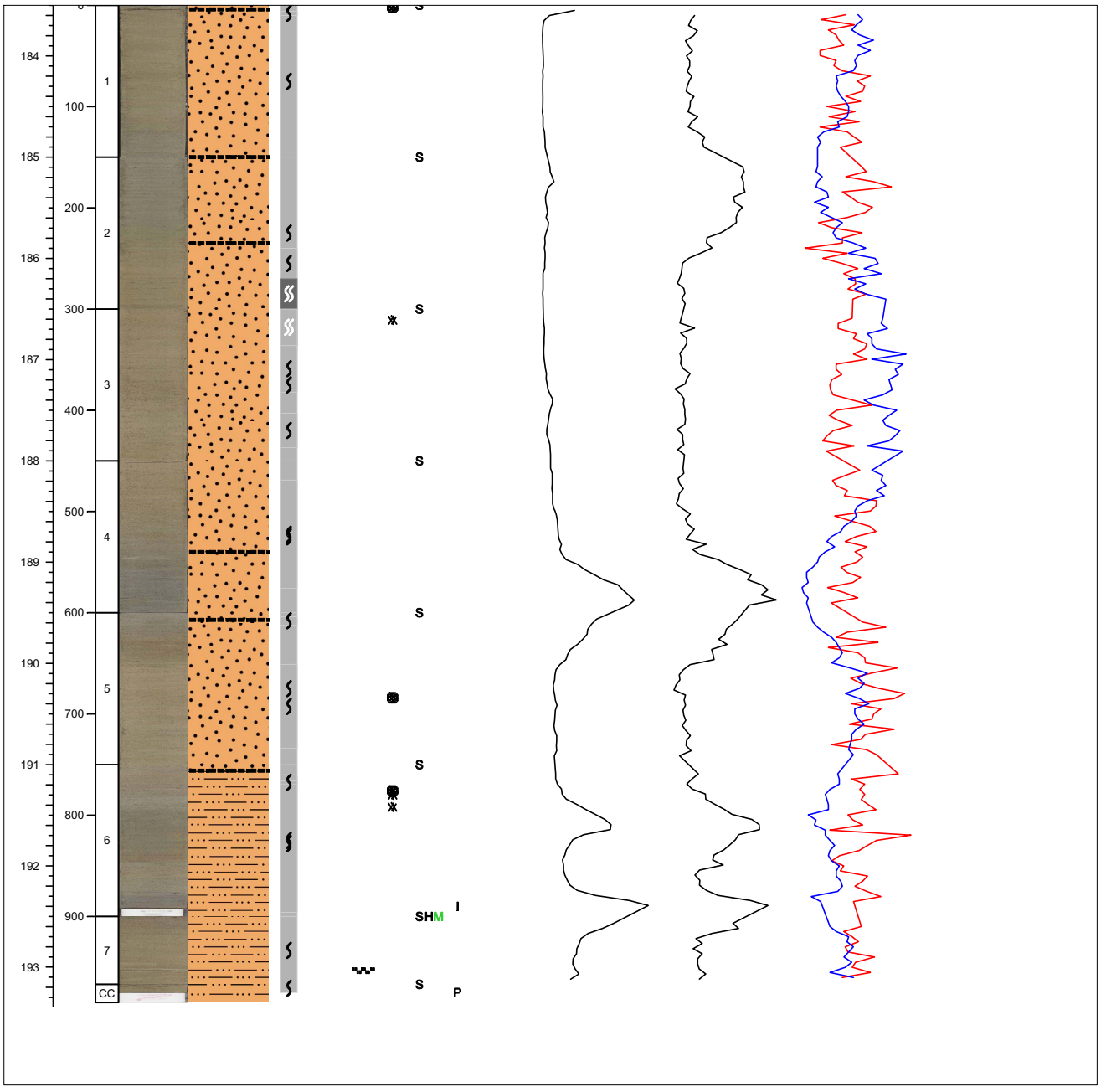
Major lithologies: Soft dark greenish gray to olive to gray diatom ooze and diatom silt; gradational boundaries between different colors; slight bioturbation; slight drilling disturbance



Core Photo

Hole 323-U1341A Core 21H, Interval 183.5-193.35m (CSF-A)

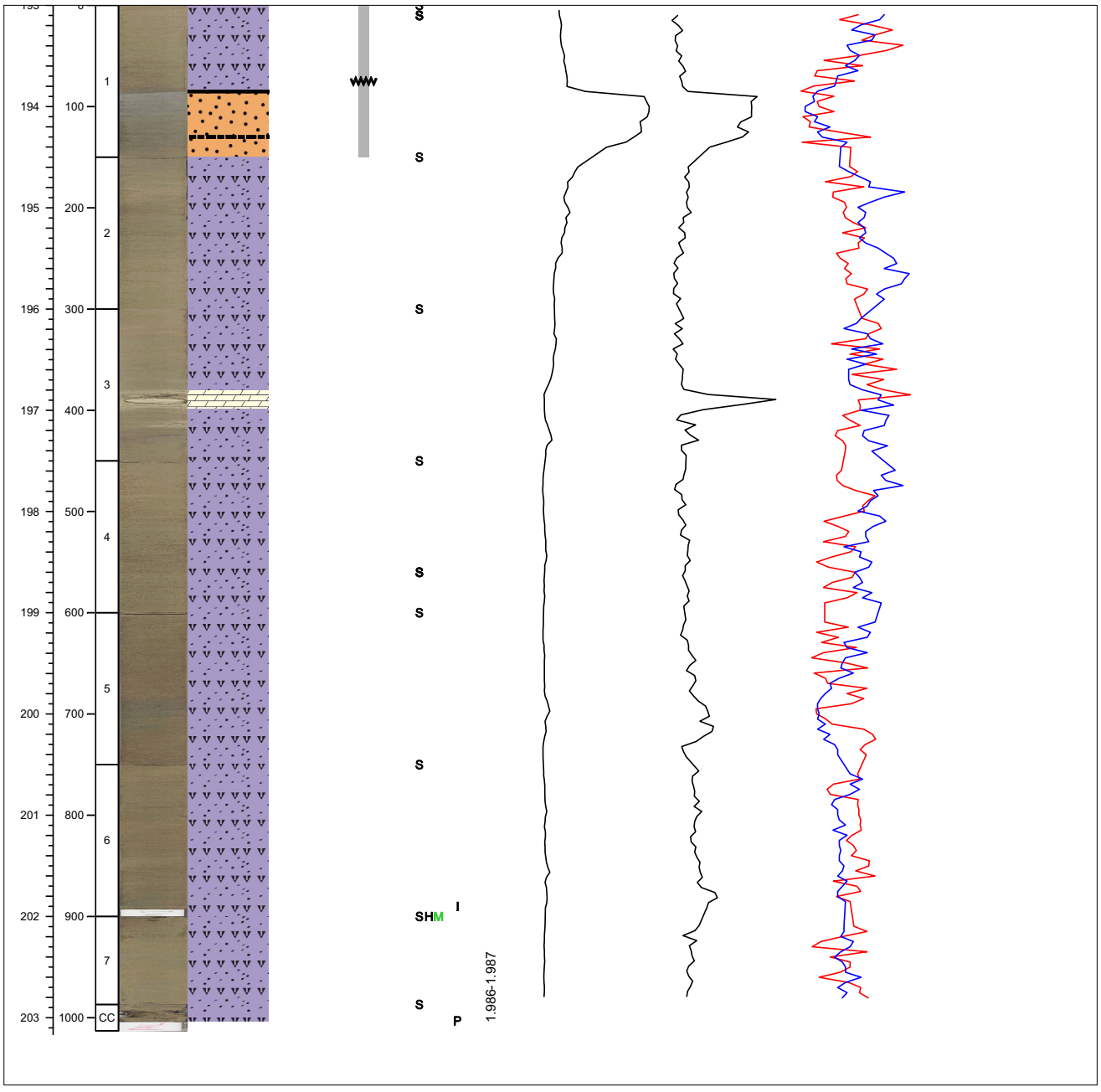
Major lithology is diatom silt (olive 5Y 4/4). Secondary lithology is diatom-rich clayey silt (dark olive 5Y 4/2). The two lithologies occur alternated. Diatom content is <60% through the core. Bioturbation is slight.



Core Photo

Hole 323-U1341A Core 22H, Interval 193.0-203.13m (CSF-A)

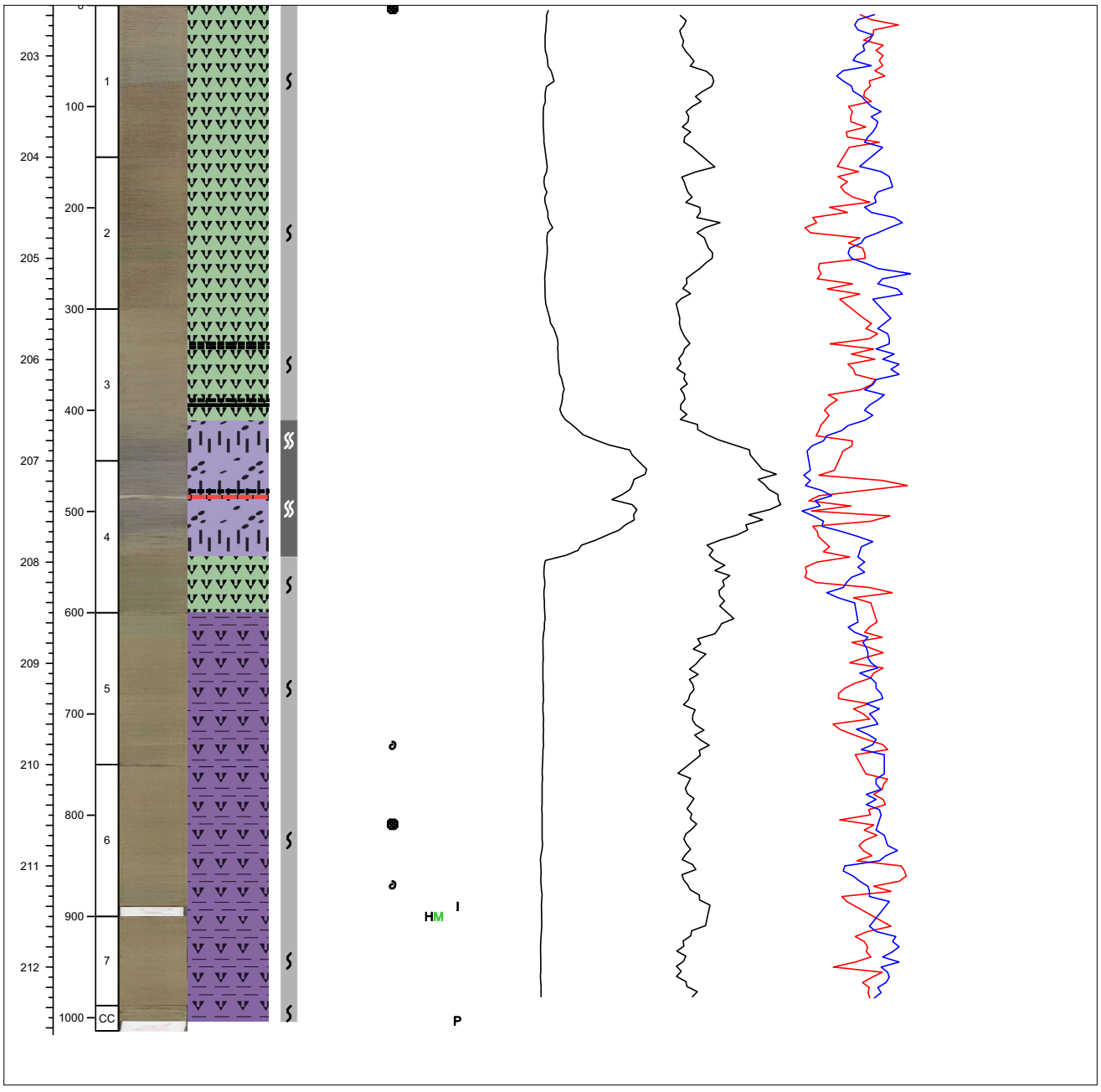
The main lithology is dark greenish gray diatom silt. The secondary lithology, dark gray diatom-rich silt, occurs only in the lower portion of section 1. A prominent dolostone layer was observed in the middle part of section 3.



Core Photo

Hole 323-U1341A Core 23H, Interval 202.5-212.63m (CSF-A)

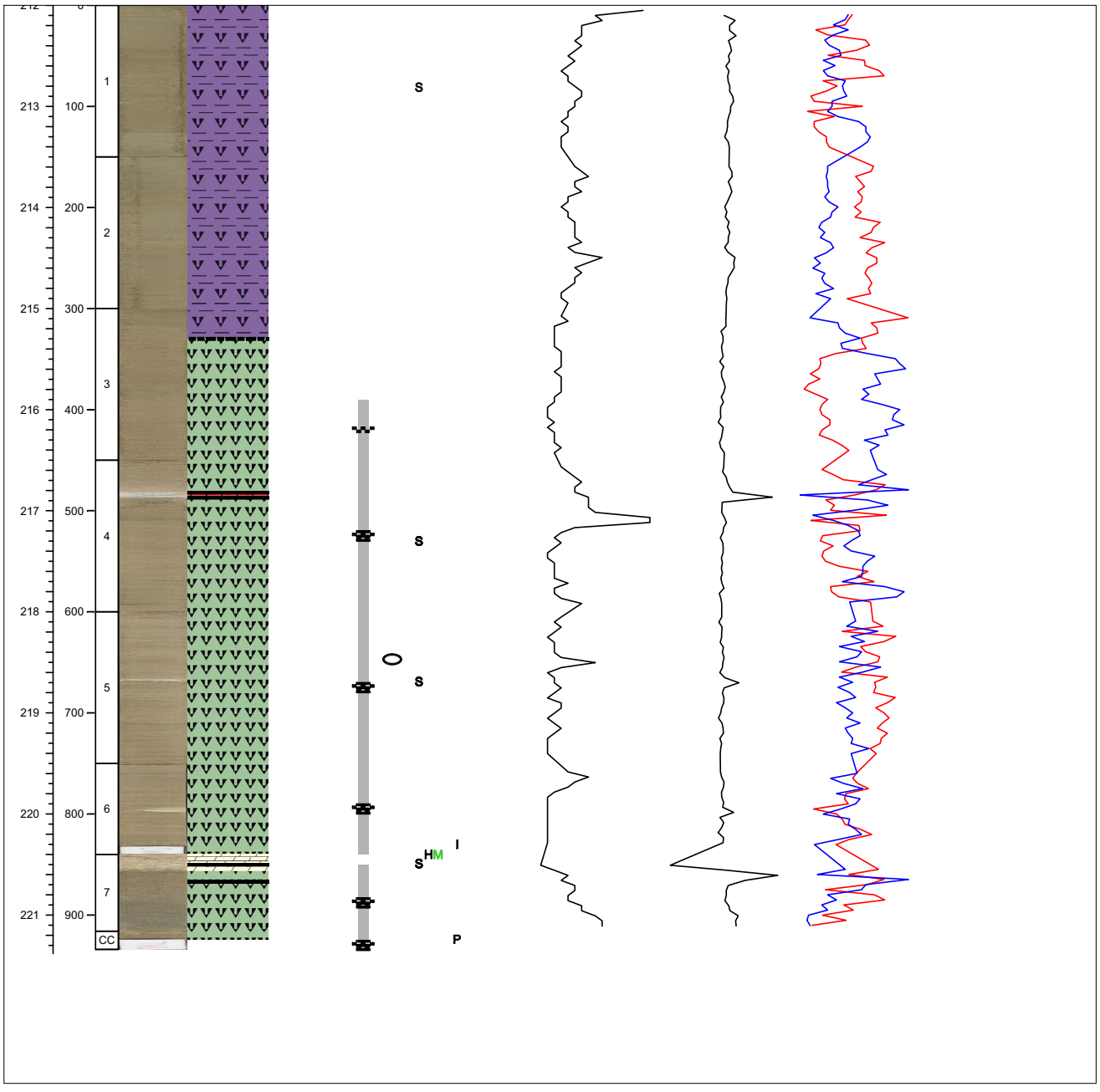
Major lithology is sponge spicule-rich diatom clay (olive 5Y 4/3). Secondary lithology is diatom ooze (dark olive 5Y 4/2). The major lithology occurs between Section 1 and Section 4. The secondary lithology occurs from Section 5 to CC. Sponge spicule silt (dark gray 5Y 4/1) occurs as minor lithology in the major lithology (Section 3 and Section 4). Highly bioturbated white ash occurs in Section 4. Two isolated shell fragments occurs in Sections 5 and 6. Bioturbation is slight to moderate.



Core Photo

Hole 323-U1341A Core 24H, Interval 212.0-221.34m (CSF-A)

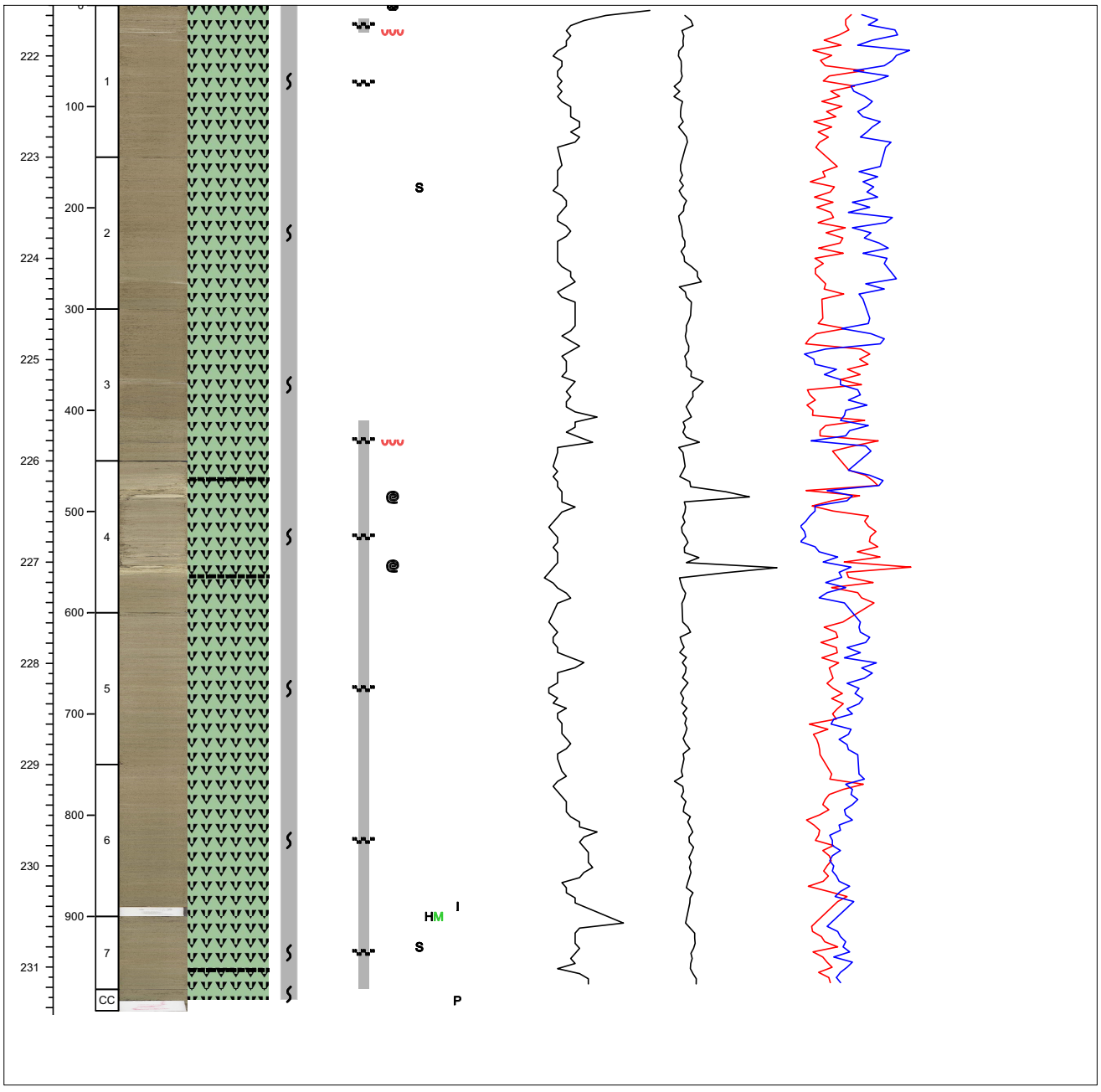
The main lithologies are olive gray diatom clay and olive gray laminated diatom ooze. The first lithology dominates the first 2 sections and it gradually transitions in the second lithology in section 3. A prominent light gray ash layer is visible in the upper part of section 4. A dolomitized diatom clay layer characterizes the top of section 7 and it occur as a nodule in section 6.



Core Photo

Hole 323-U1341A Core 25H, Interval 221.5-231.43m (CSF-A)

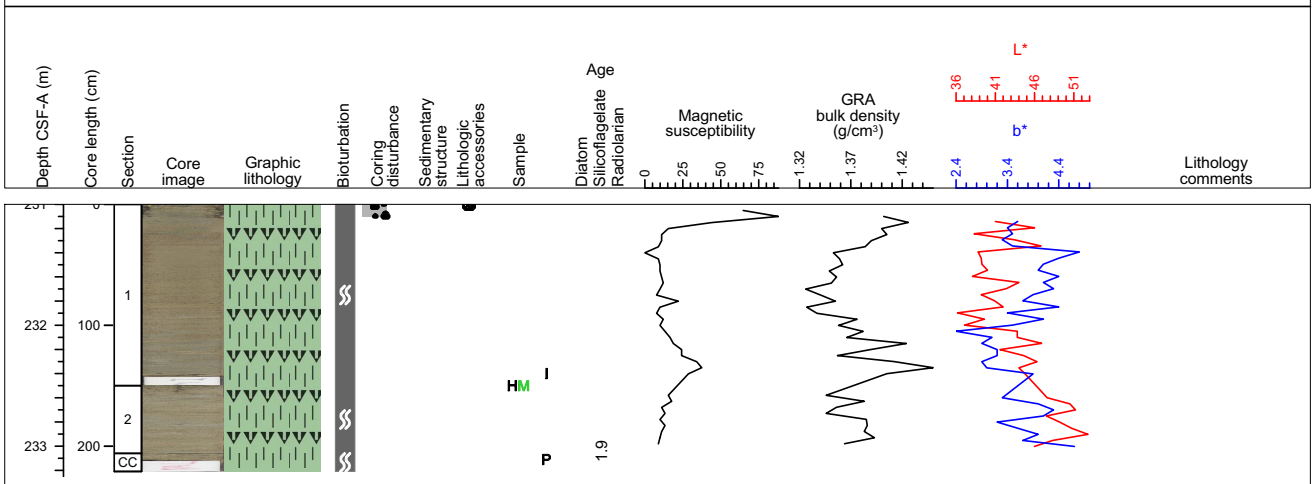
Major lithology is diatom ooze (olive grey 5Y 5/2). In Section 4 dolomite nodules occur at 36-41cm and 104-106cm. Faint laminae can be observed between Section 3 and CC. From Section 7 to CC; color is darker and the color change matches an increase in clay content.



Core Photo

Hole 323-U1341A Core 26H, Interval 231.0-233.21m (CSF-A)

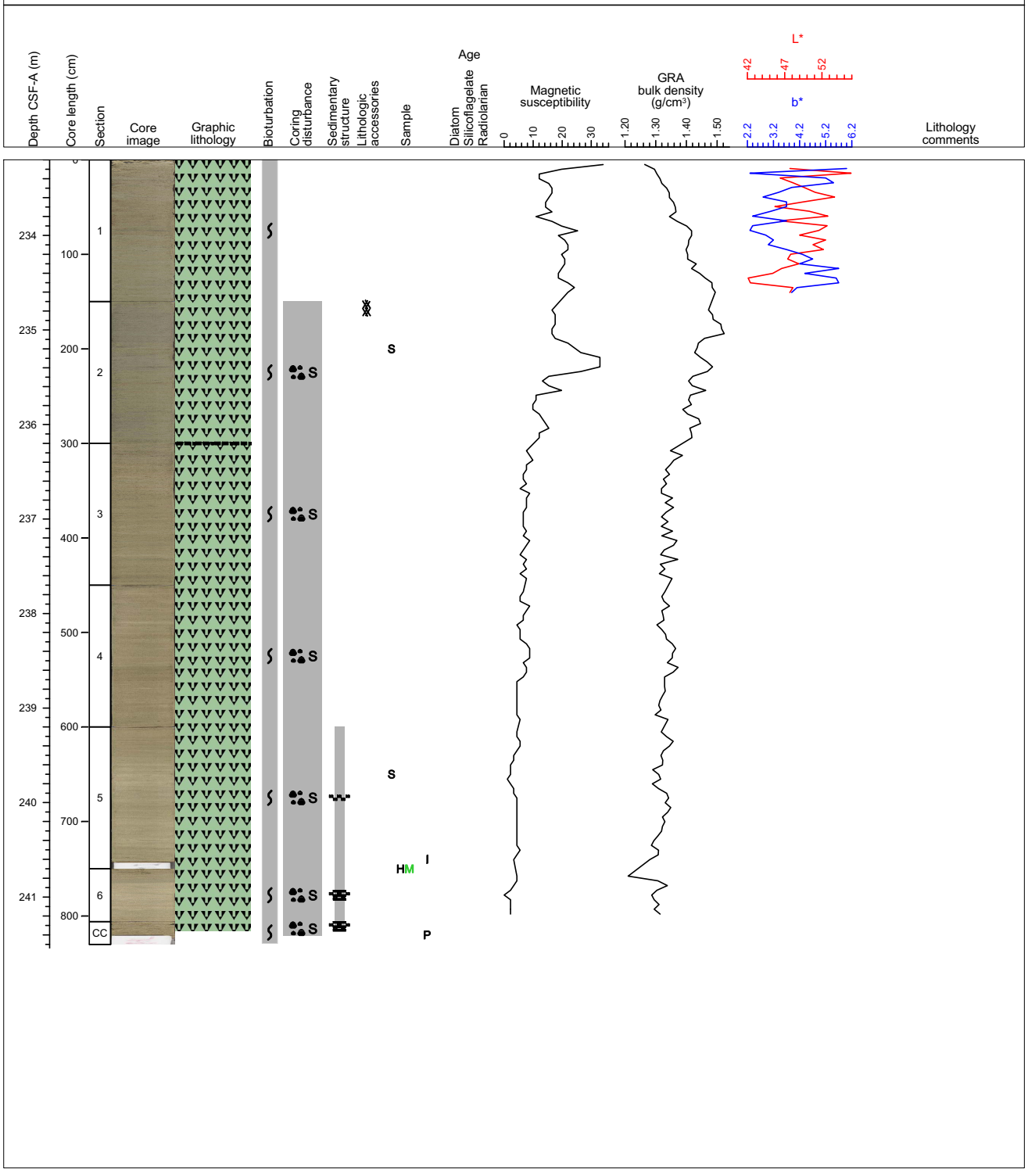
Major lithology: dark greenish gray to greenish gray sponge spicule-diatom ooze. The color gradually lightens over the course of the core. Bioturbation is moderate throughout. Many pebbles are found on the outside of the core, especially in the top 10 cm. No pebbles are seen on the cut core surface, suggesting disturbance.



Core Photo

Hole 323-U1341A Core 27H, Interval 233.2-241.5m (CSF-A)

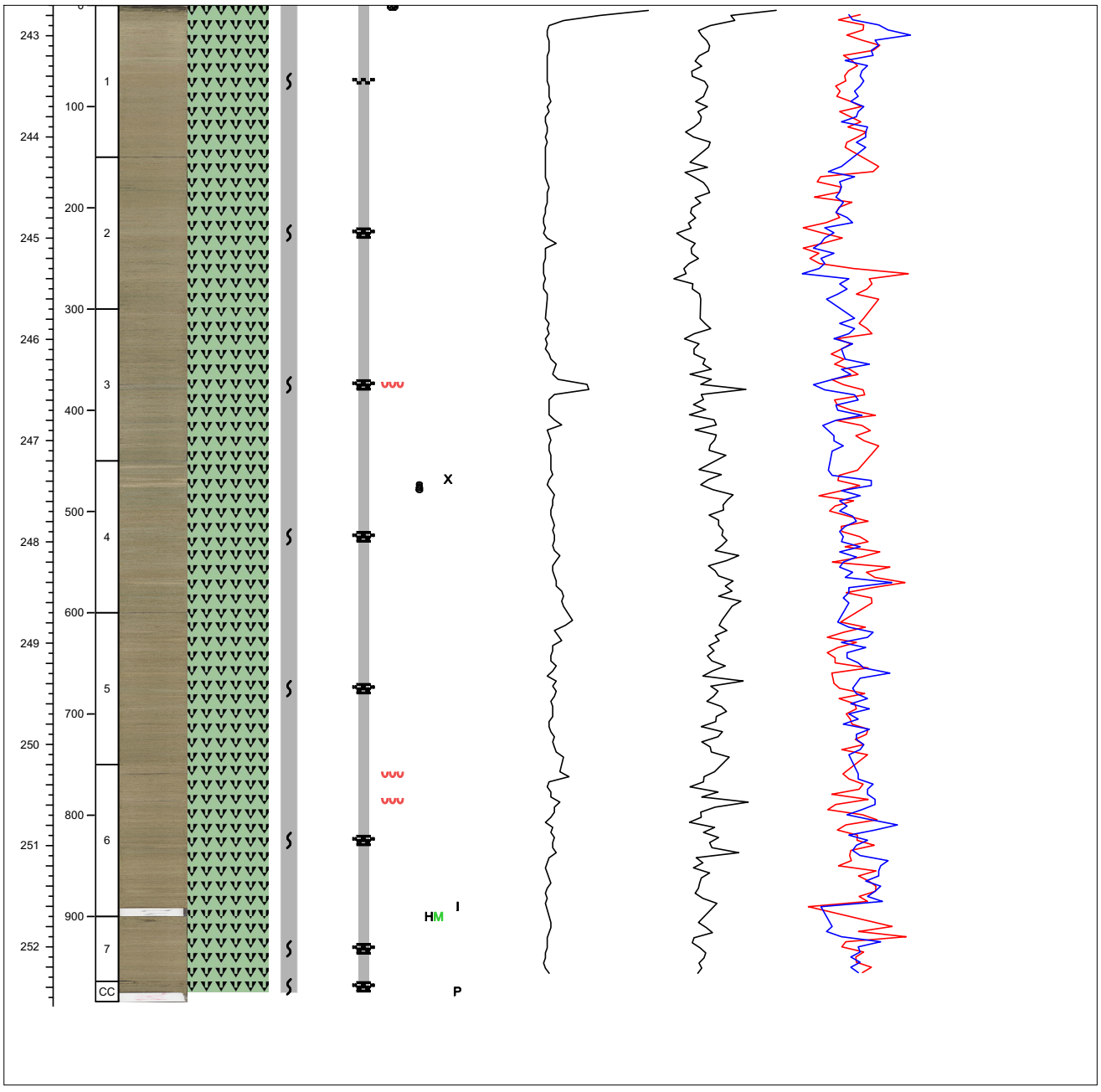
The main lithologies are olive gray diatom ooze and dark greenish gray sponge spicule-bearing diatom ooze. The secondary lithology is most abundant in the upper part of core Sections 1 and 2. Faint centimeter-thick lamination can be recognized in the lower part of the core although the core is mottled throughout. Sponge spicule aggregates are visible at the top of Section 2.



Core Photo

Hole 323-U1341A Core 28H, Interval 242.7-252.54m (CSF-A)

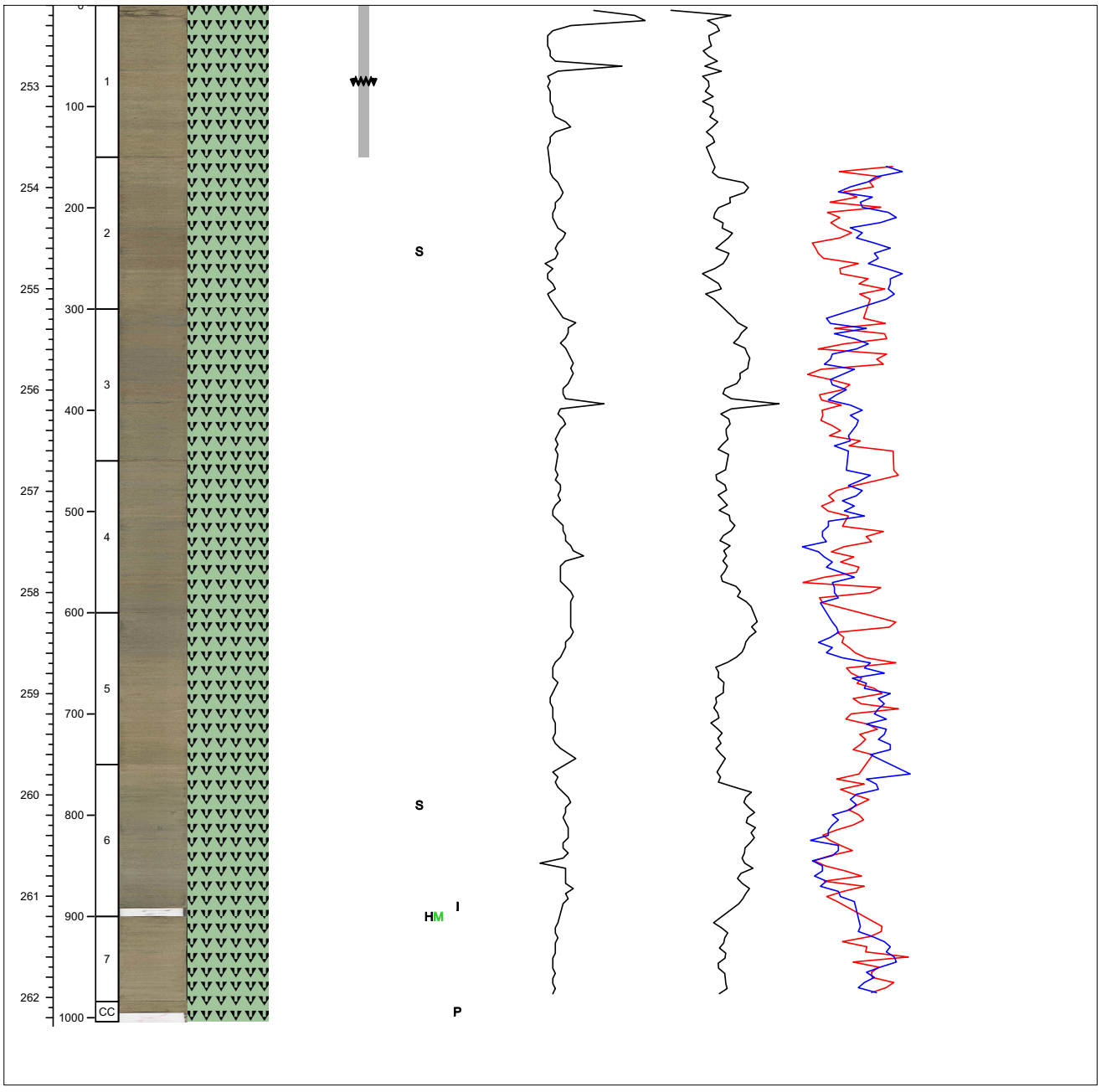
Major lithology is laminated diatom ooze (dark olive to light olive). The dark laminae (dark olive 5Y 4/2) is diatom ooze. The light laminae (5Y 6/2) is also diatom ooze containing >20% zeolite (philipsite).



Core Photo

Hole 323-U1341A Core 29H, Interval 252.2-262.24m (CSF-A)

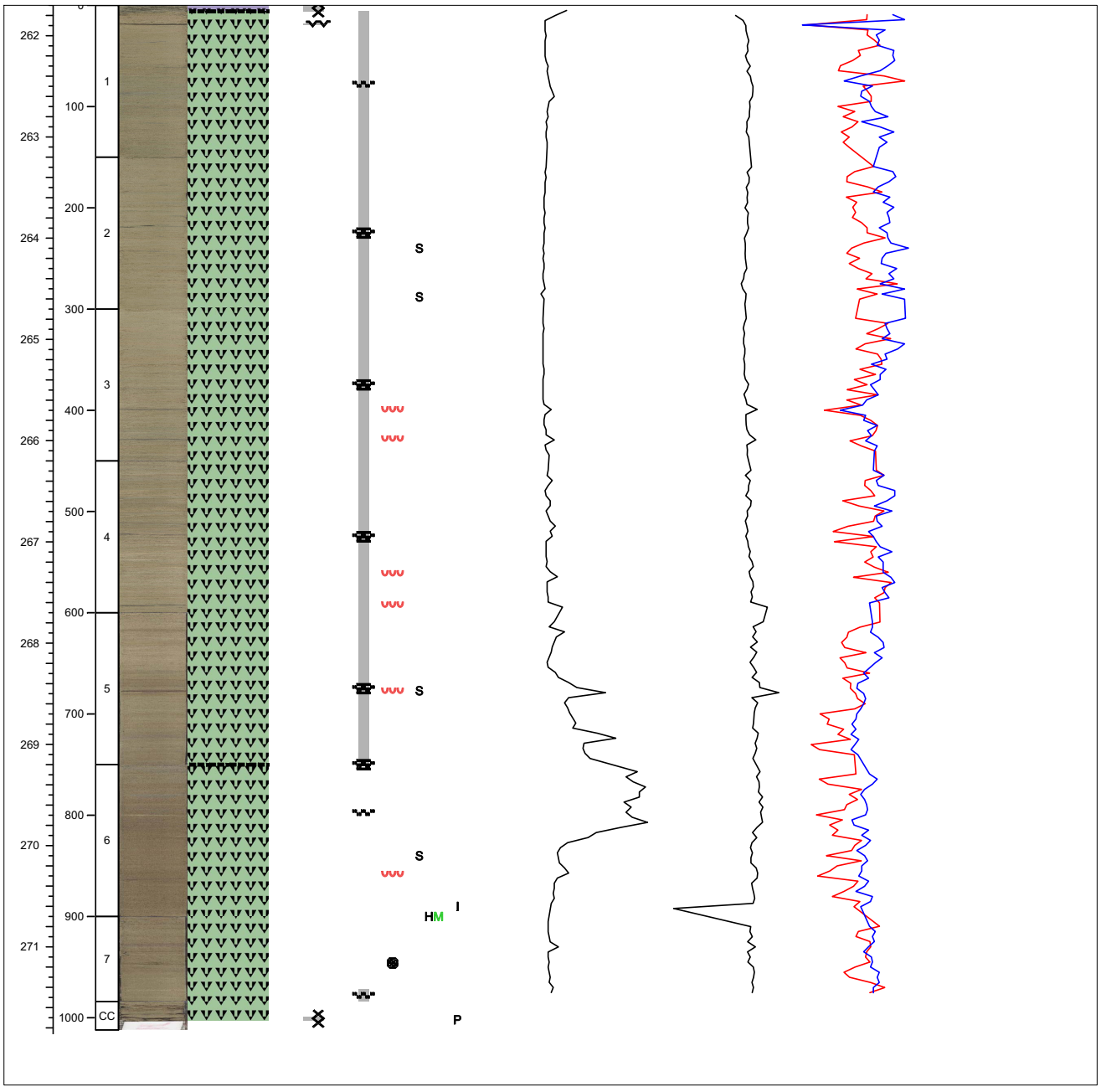
The only lithology is greenish gray diatom ooze. The core is faintly laminated and slightly mottled throughout. Two gravel-size clasts were observed in section 6.



Core Photo

Hole 323-U1341A Core 30H, Interval 261.7-271.82m (CSF-A)

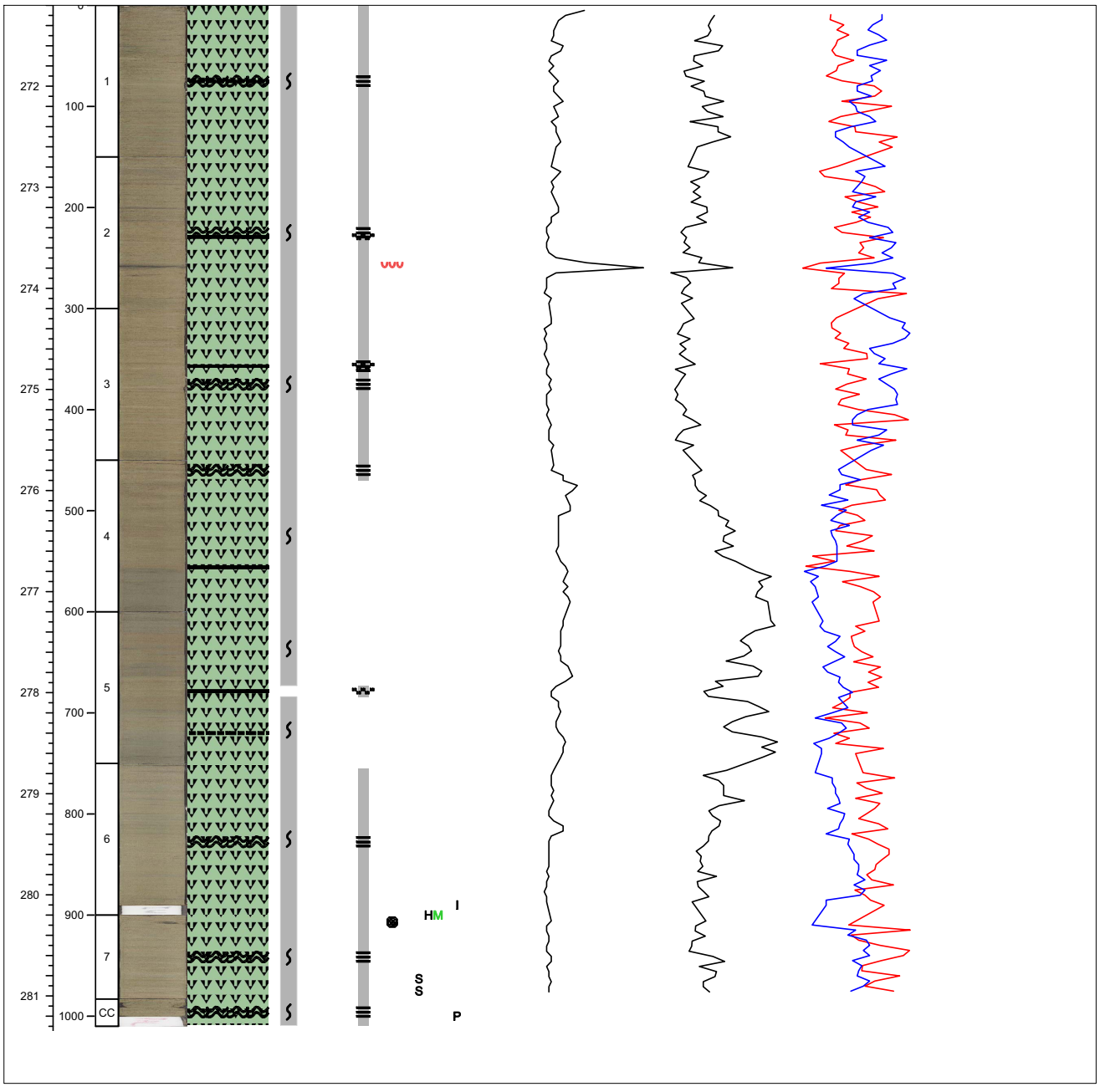
Major lithology is diatom ooze. Faint laminae (olive grey 5Y 4/2 to light olive 5Y 6/2) from Section 1 to Section 5. Light colored laminae contains only pennate diatom species. Bioturbation is slight. 1.5 cm pebble (basalt?) occurred in Section 7.



Core Photo

Hole 323-U1341A Core 31H, Interval 271.2-281.3m (CSF-A)

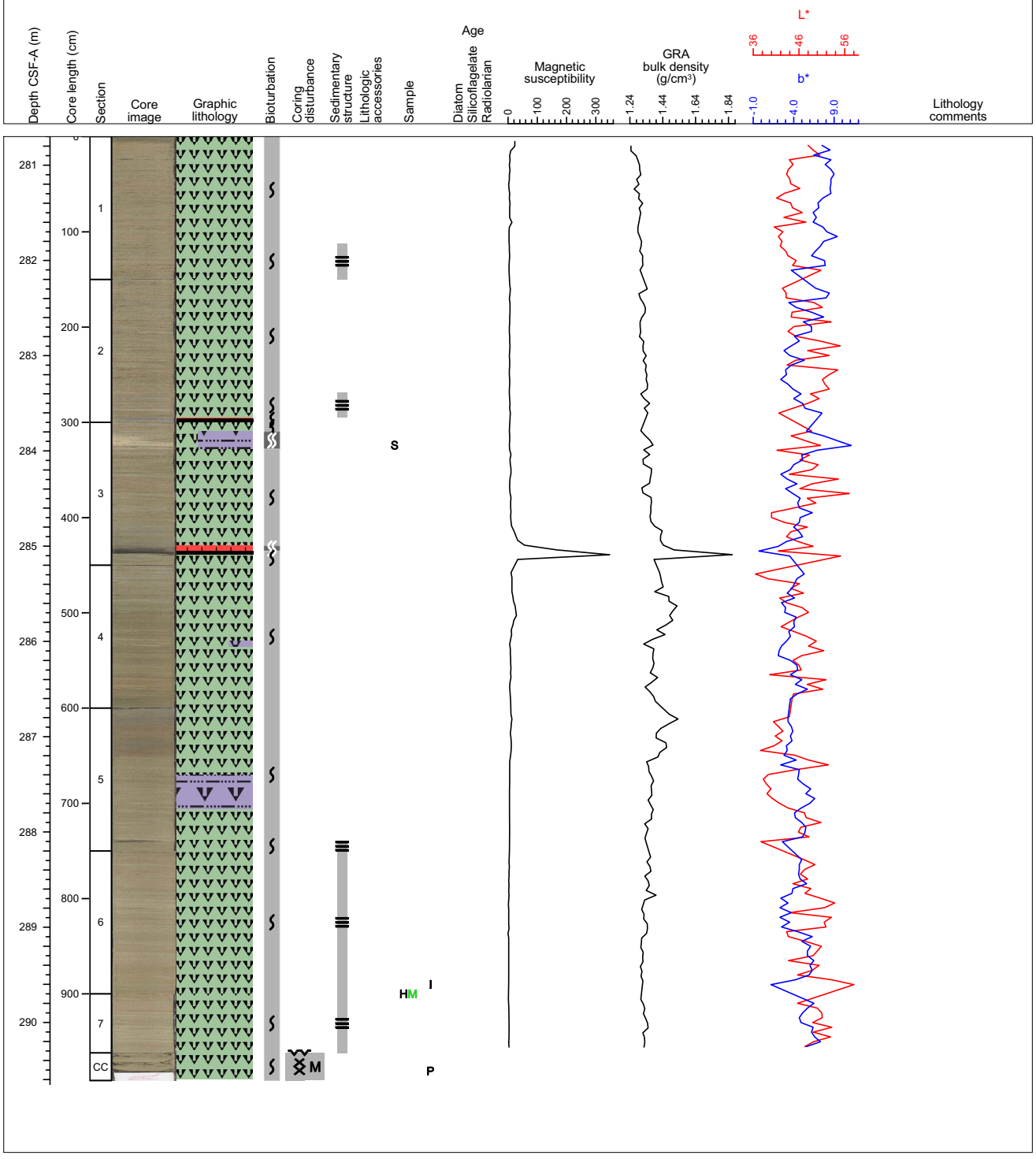
Major lithologies: Mostly olive gray, sometimes dark greenish gray diatom ooze; thin irregular undulated bedding of more or less gray material in most sections; isolated distinct whitish laminae of pennate diatoms in section 2 and 3; laminated interval in section 5; clast in section 7; mostly slight bioturbation, absent in laminated interval; no drilling disturbance



Core Photo

Hole 323-U1341A Core 32H, Interval 280.7-290.61m (CSF-A)

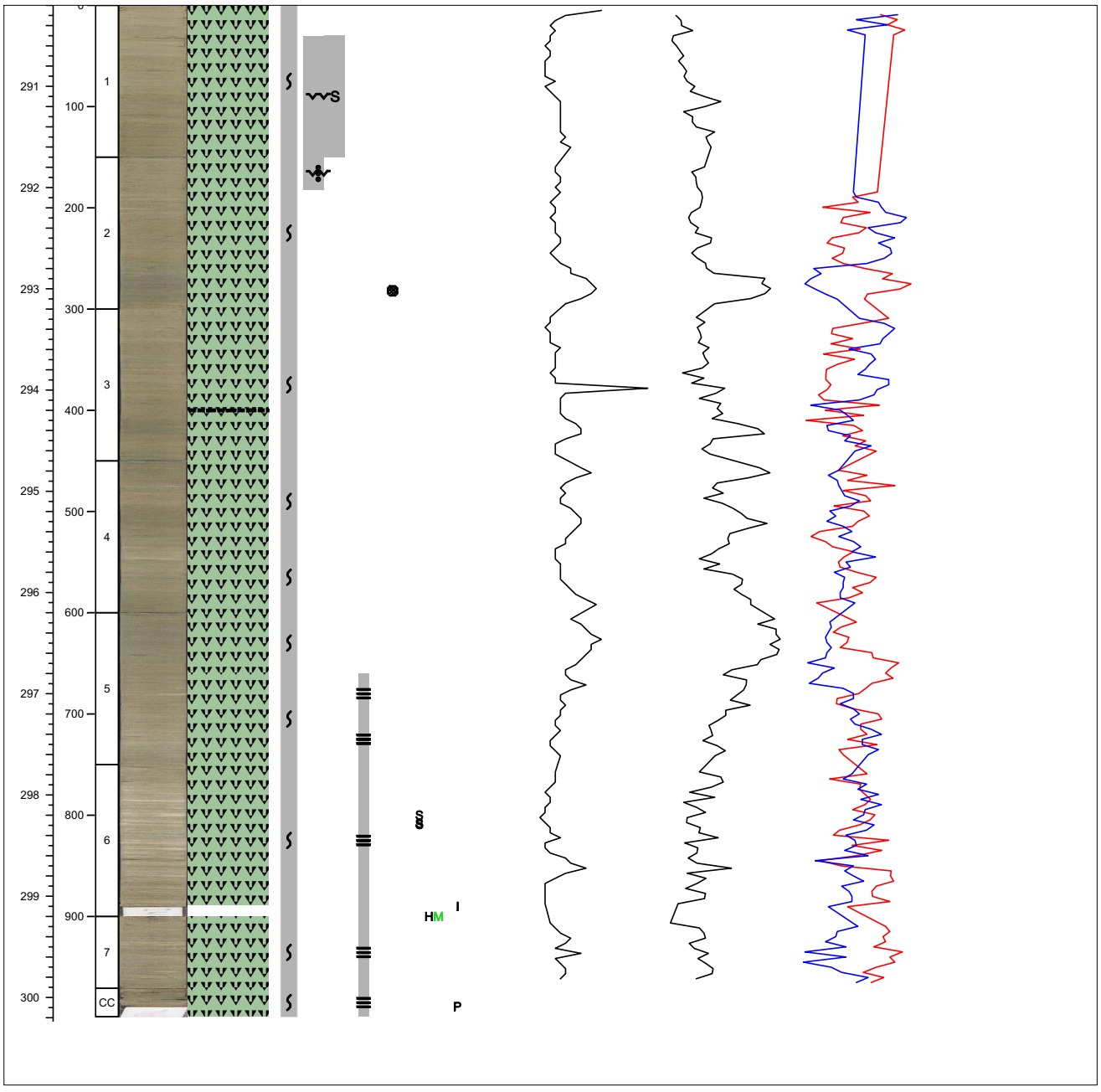
Major lithology: diatom ooze; secondary lithology: diatom clayey silt. Thin beds at Sections 1, 2 and 6. Dolomite-rich diatom ooze at Section 3.



Core Photo

Hole 323-U1341A Core 33H, Interval 290.2-300.19m (CSF-A)

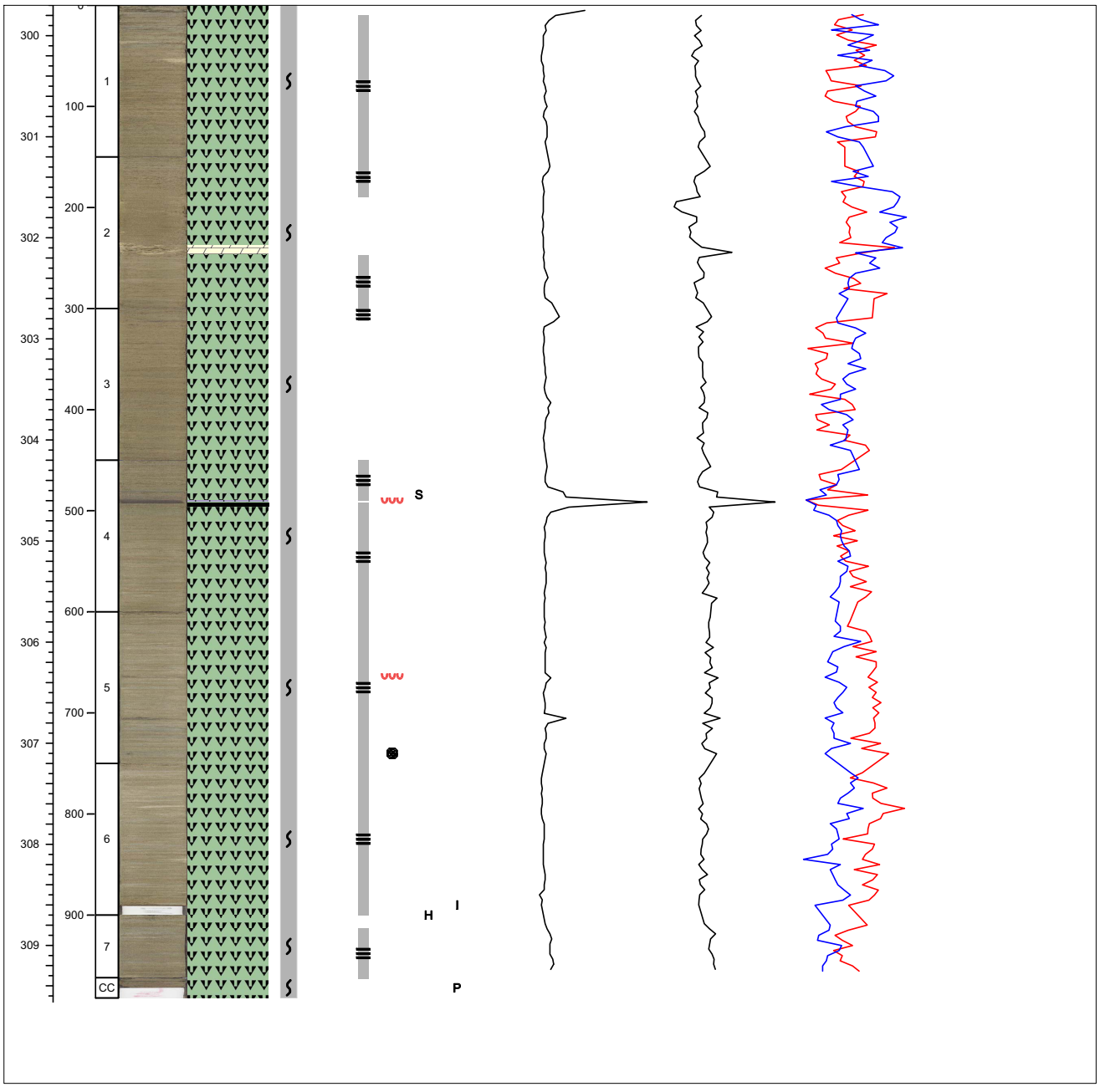
Main lithology: diatom ooze. Darker-coloured sediments tend to contain pyrite. Thin beds from 1-2 cm were visible in Sections 3, 4 and 5.



Core Photo

Hole 323-U1341A Core 34H, Interval 299.7-309.52m (CSF-A)

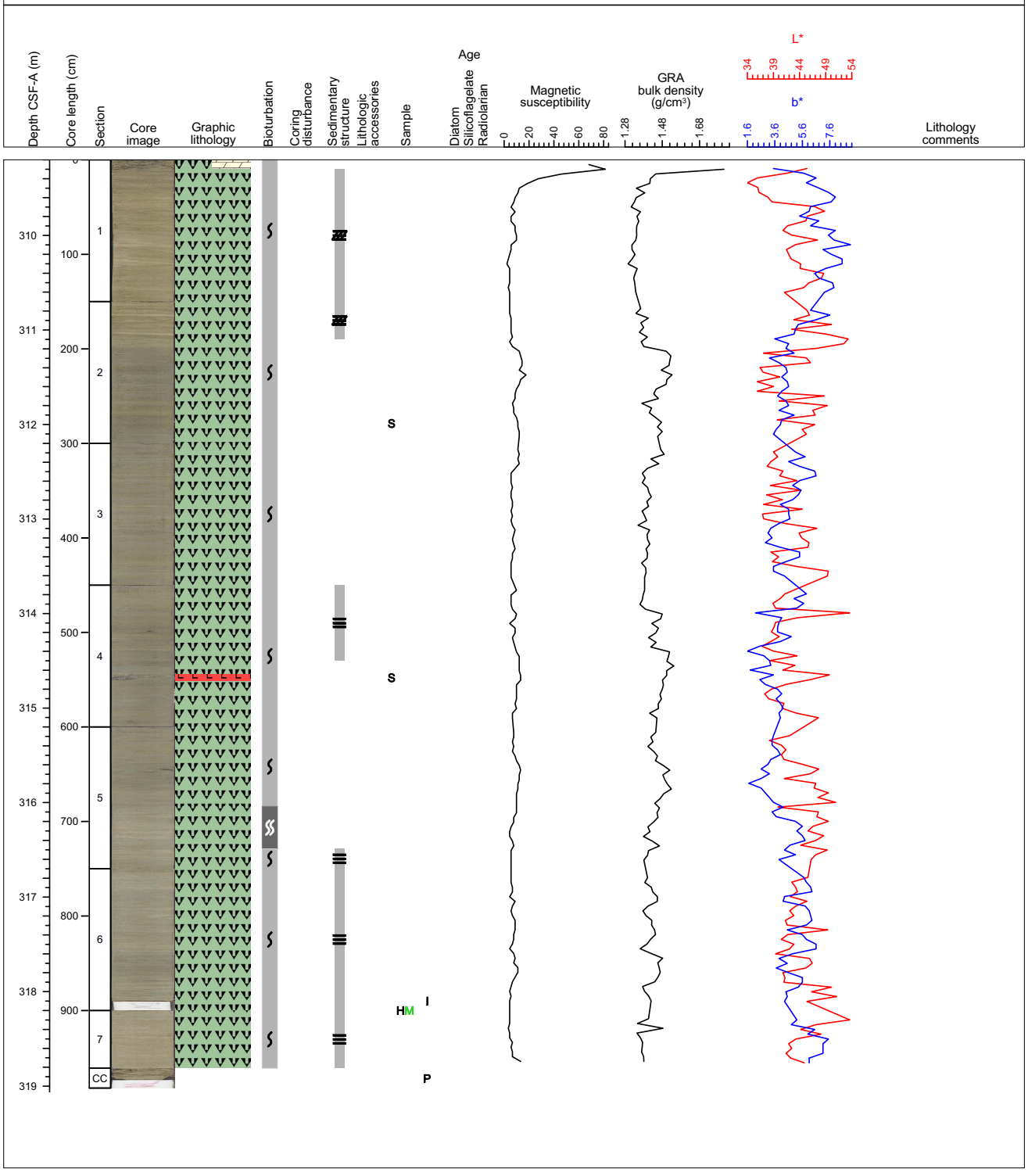
Main lithology: diatom ooze. Thin beds throughout the core except sec 5. Ashy layer at Sec 4



Core Photo

Hole 323-U1341A Core 35H, Interval 309.2-319.02m (CSF-A)

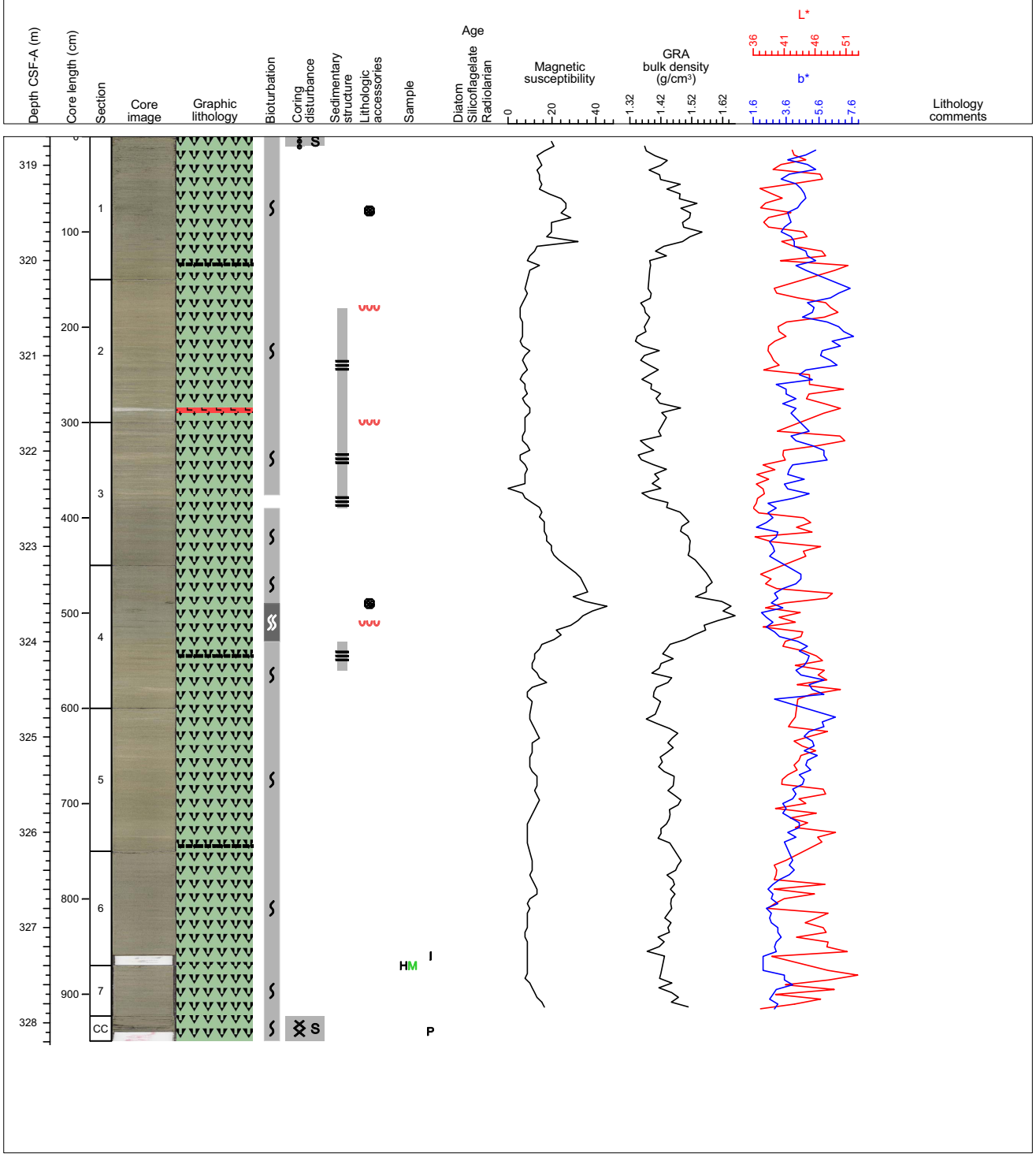
Main lithology: diatom ooze. Dolomite or dolostone at Sec.1. Mix of fine ash and pebble-sized volcaniclastic grains at Sec.4



Core Photo

Hole 323-U1341A Core 36H, Interval 318.7-328.19m (CSF-A)

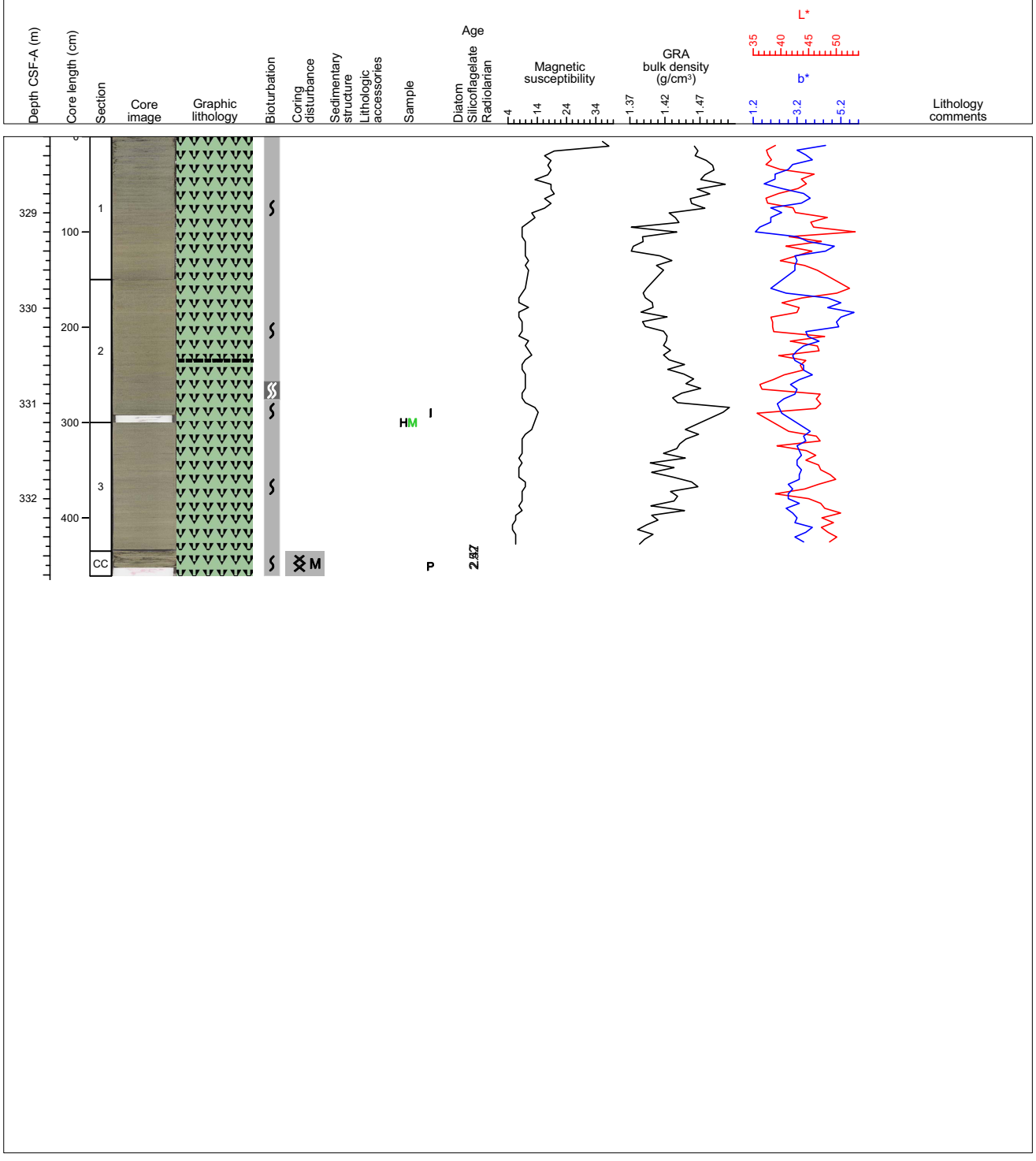
Main lithology: diatom ooze. Ash at Sec. 2. Thin bed structure is visible within light color (5Y 5/2) lithology not in dark gray (10Y 4/1) sediments.



Core Photo

Hole 323-U1341A Core 37H, Interval 328.2-332.81m (CSF-A)

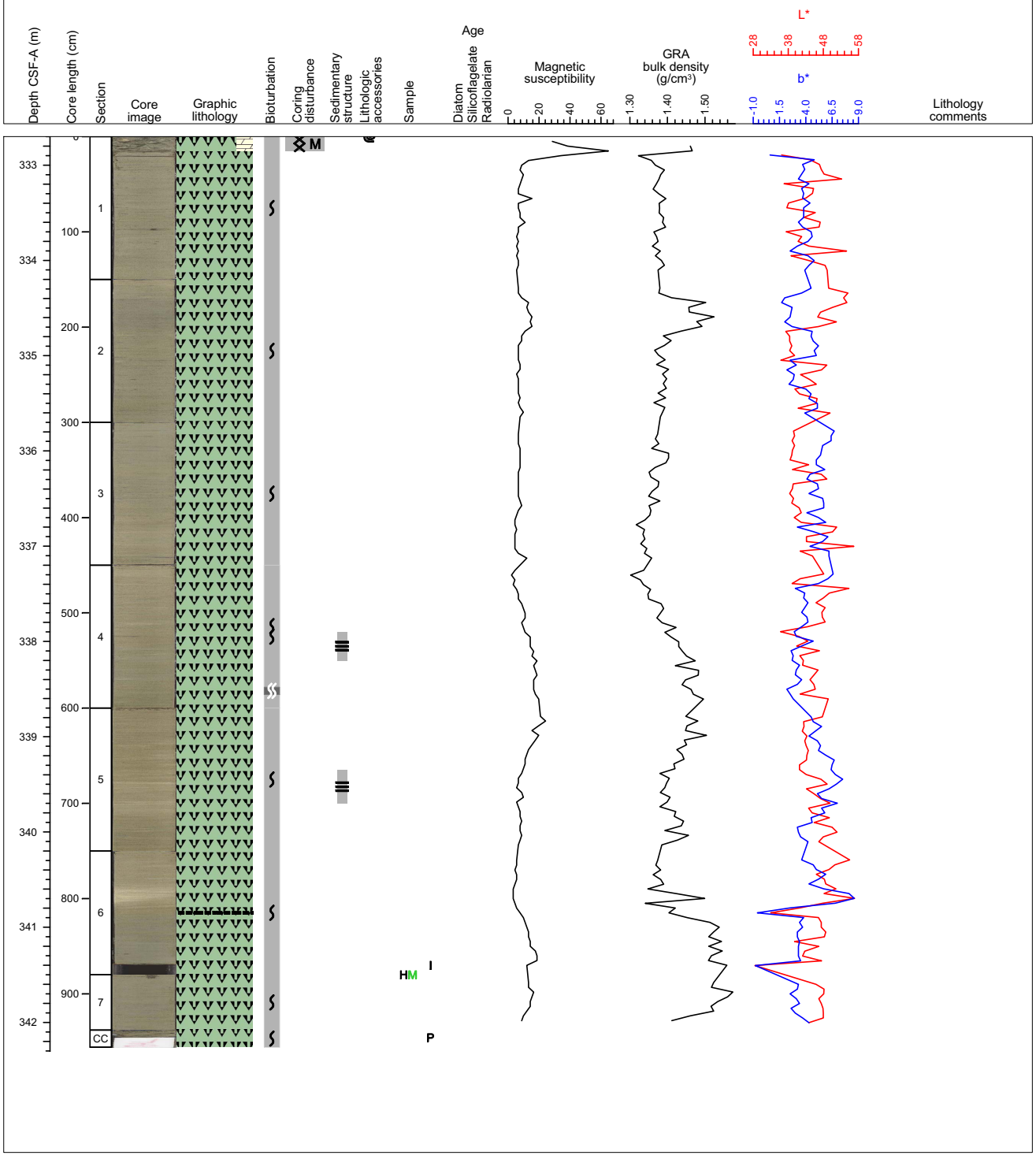
Main lithology: diatom ooze. Alternation in color from dark gray (10Y 4/1) to light olive (5Y 4/2).



Core Photo

Hole 323-U1341A Core 38H, Interval 332.7-342.26m (CSF-A)

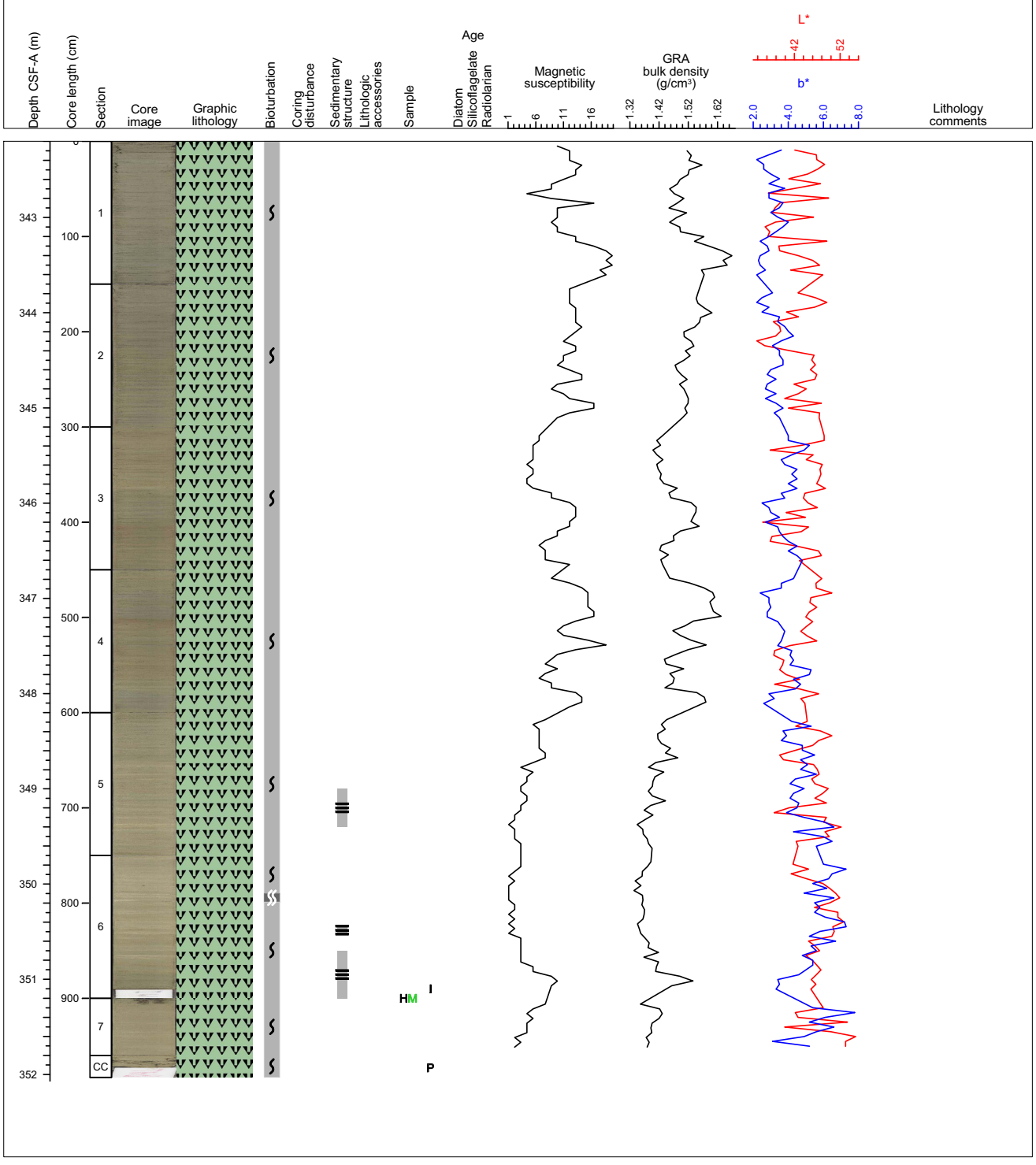
Main lithology: diatom ooze. Alternation in color from dark gray (10Y 4/1) to olive green (5Y 5/2). Ash mottling in Sec. 1 2 and 3. Dolostones at the top of the core.



Core Photo

Hole 323-U1341A Core 39H, Interval 342.2-352.03m (CSF-A)

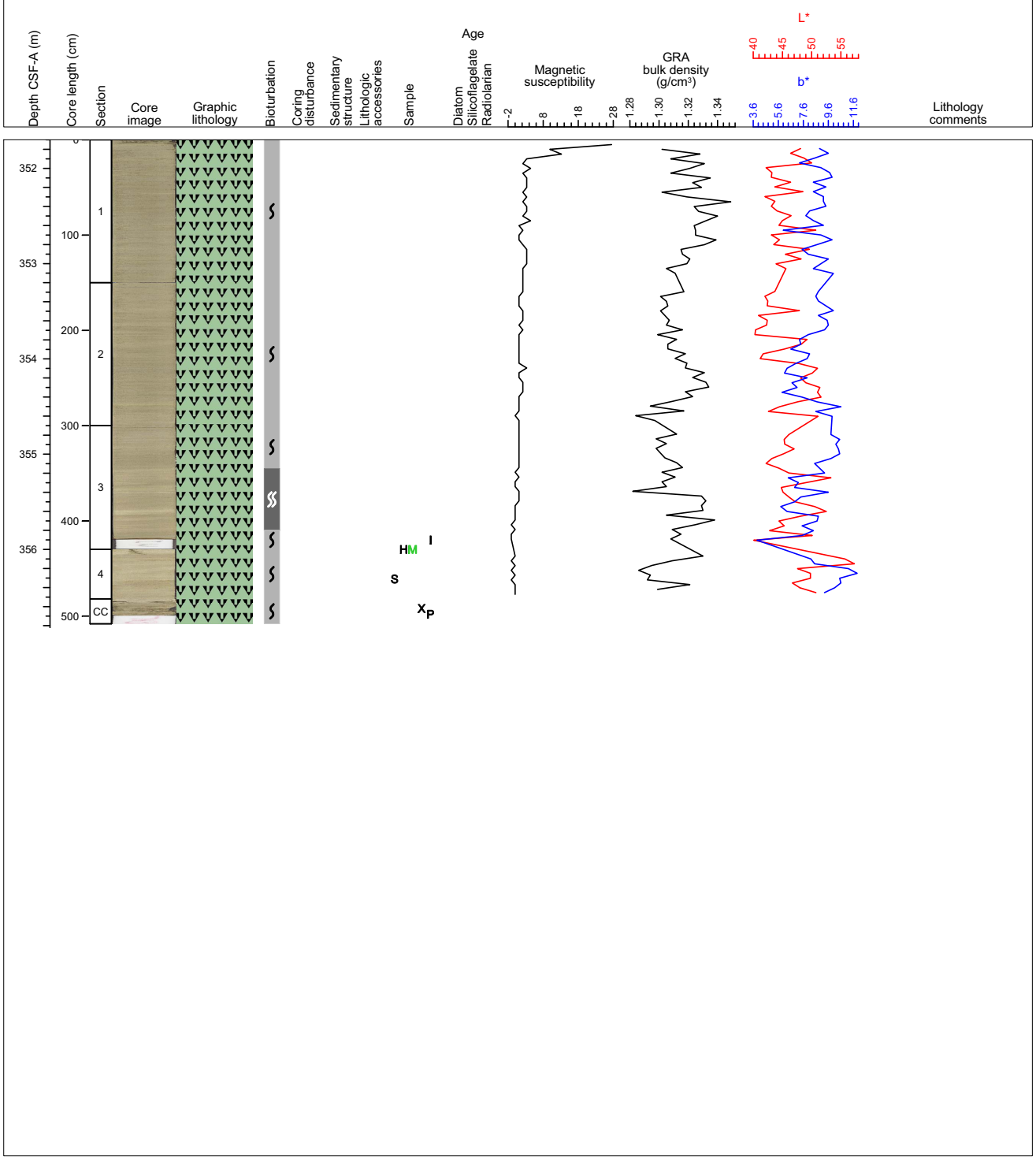
Main lithology: diatom ooze. Thin bed occurred at Sec 5 and 6



Core Photo

Hole 323-U1341A Core 40H, Interval 351.7-356.78m (CSF-A)

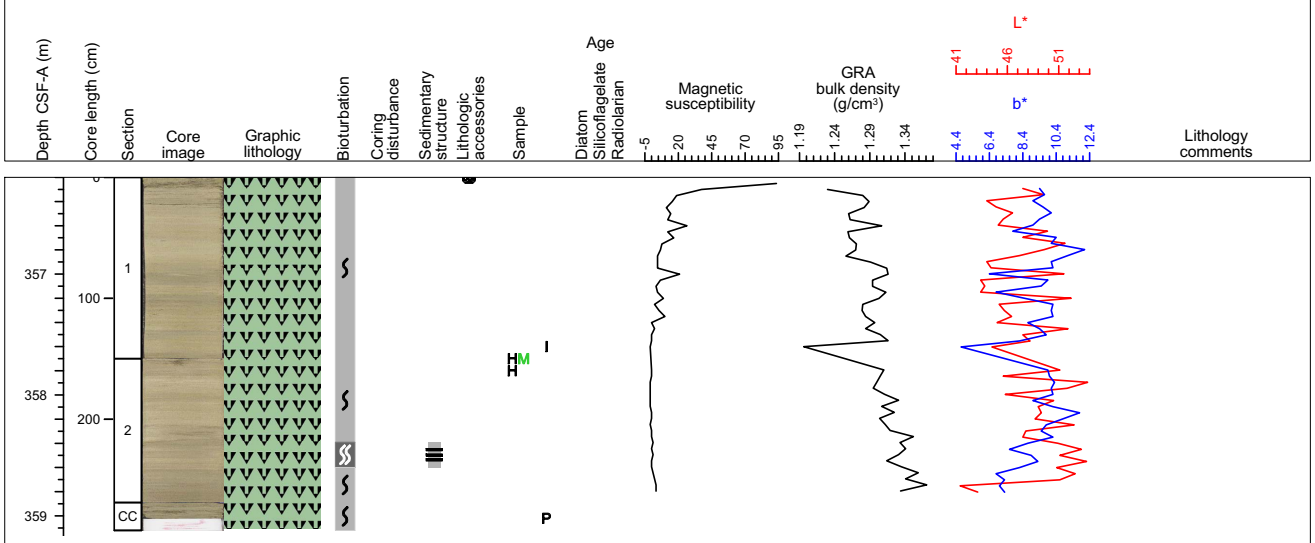
Main lithology: diatom ooze. Thin bed in Sec. 3



Core Photo

Hole 323-U1341A Core 41H, Interval 356.2-359.12m (CSF-A)

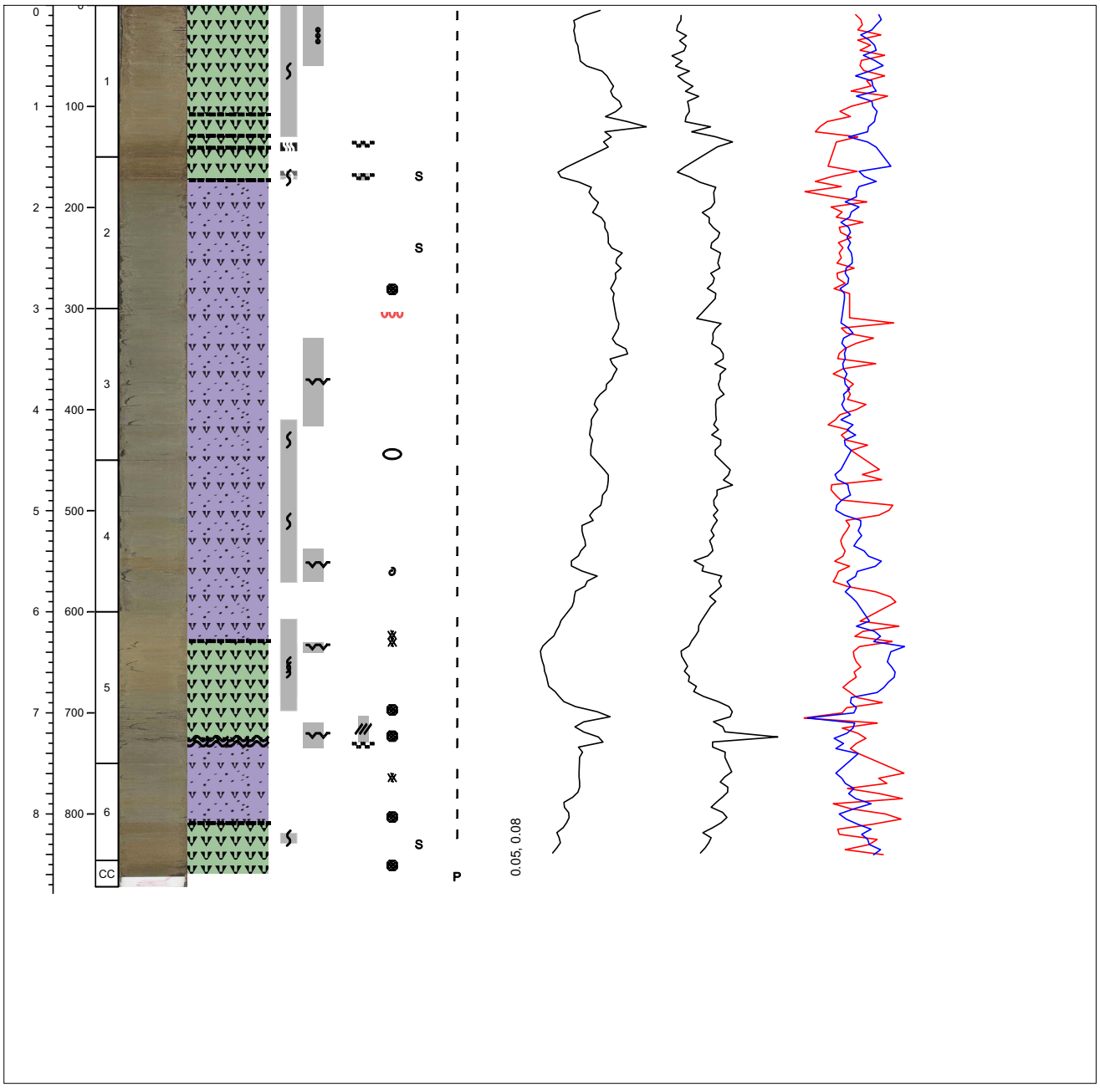
Main lithology: diatom ooze. Thin bedded in Section 2.



Core Photo

Hole 323-U1341B Core 1H, Interval 0.0-8.72m (CSF-A)

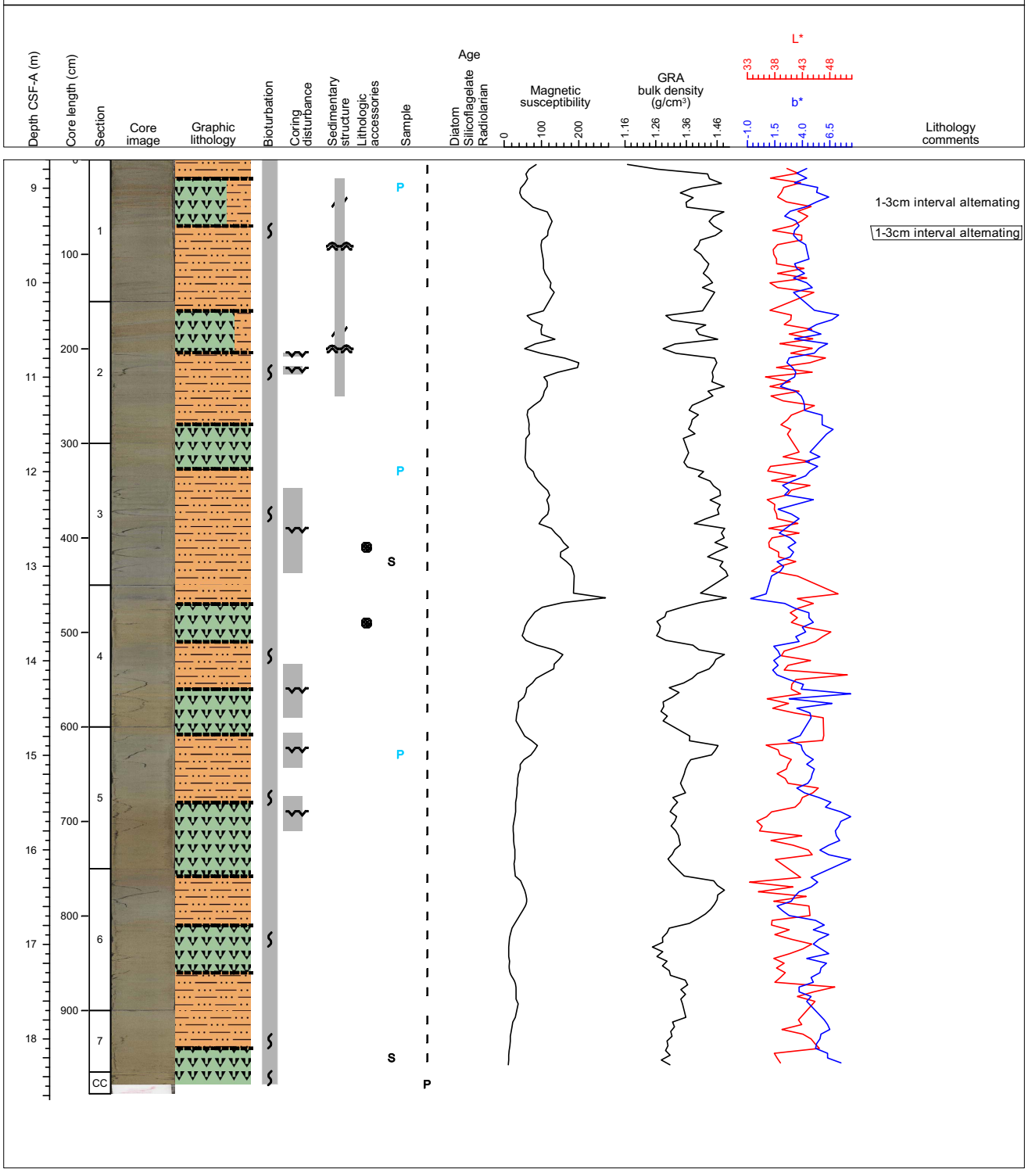
Major lithologies: dark grayish green diatom silt and olive gray diatom ooze. Minor lithology: olive gray foraminifera-bearing nannofossil-rich diatom ooze. The lithologies are separated by gradational boundaries and color changes. The foraminifera-bearing nannofossil-rich diatom ooze tends to be thinly laminated with abundant foraminifera visible in the laminations. Volcanic ash is present only in small bioturbated mottles and as one 0.5 cm thick layer. Bioturbation is slight to moderate throughout the core. Disturbance is mainly cracks due to Rhizon sampling.



Core Photo

Hole 323-U1341B Core 2H, Interval 8.7-18.58m (CSF-A)

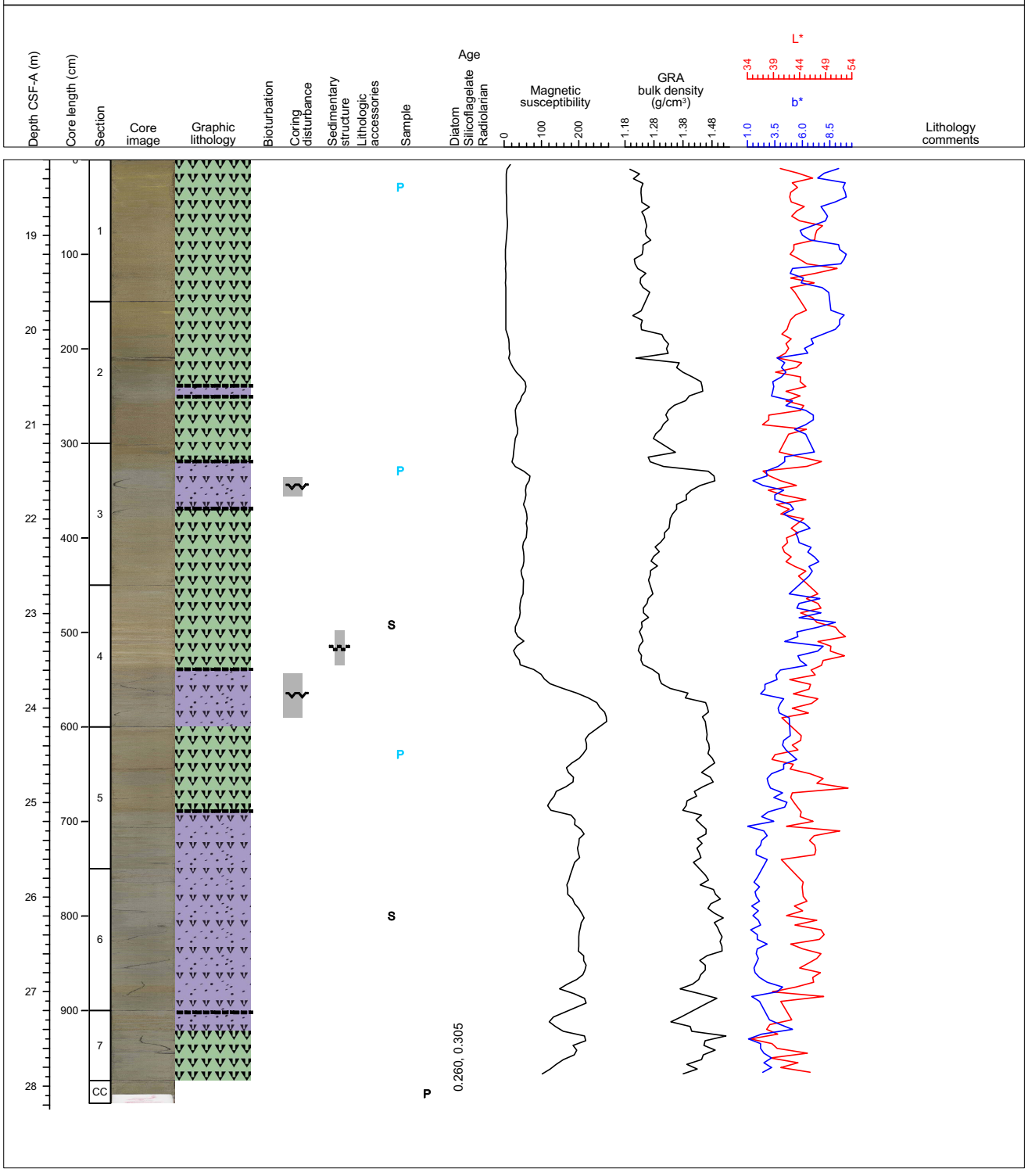
Major lithology is diatom ooze (olive gray 5Y 4/2 to olive 5Y 4/3). Secondary lithology is diatom-rich clayey silt (dark greenish gray 10Y 4/1).
Soft sediment deformation structure occurs in Section 1 (33cm) to Section 2 (100cm). A red pebble occurs in Section 3 (110cm). Bioturbation is slight.



Core Photo

Hole 323-U1341B Core 3H, Interval 18.2-28.18m (CSF-A)

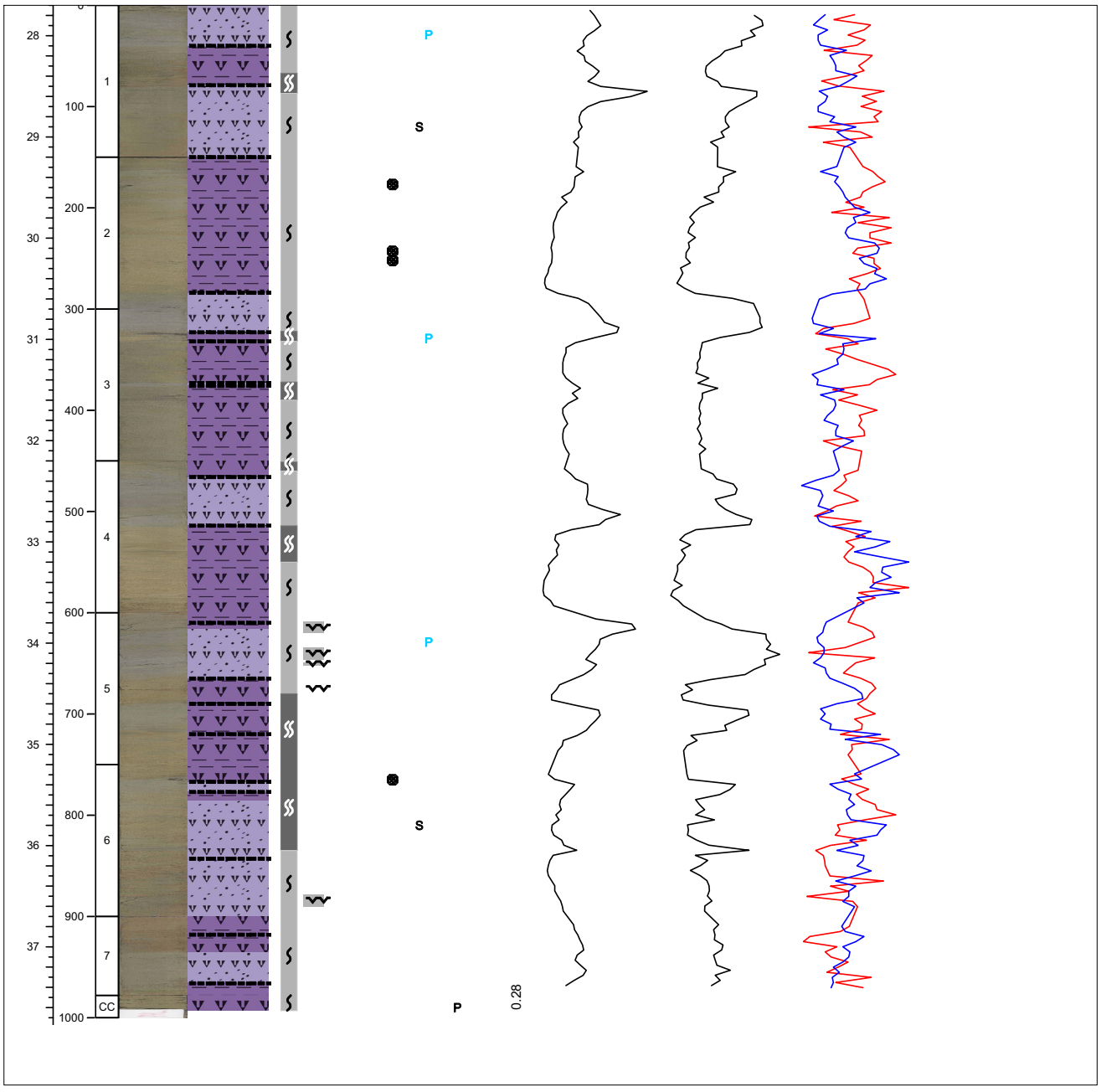
Two main lithologies alternate in beds with thickness ranging between 20 and 80cm: olive to olive gray diatom ooze and dark gray diatom silt. The diatom ooze in section 3 is faintly bedded. Two clasts of volcanic material occur in sections 6 and 7.



Core Photo

Hole 323-U1341B Core 4H, Interval 27.7-37.7m (CSF-A)

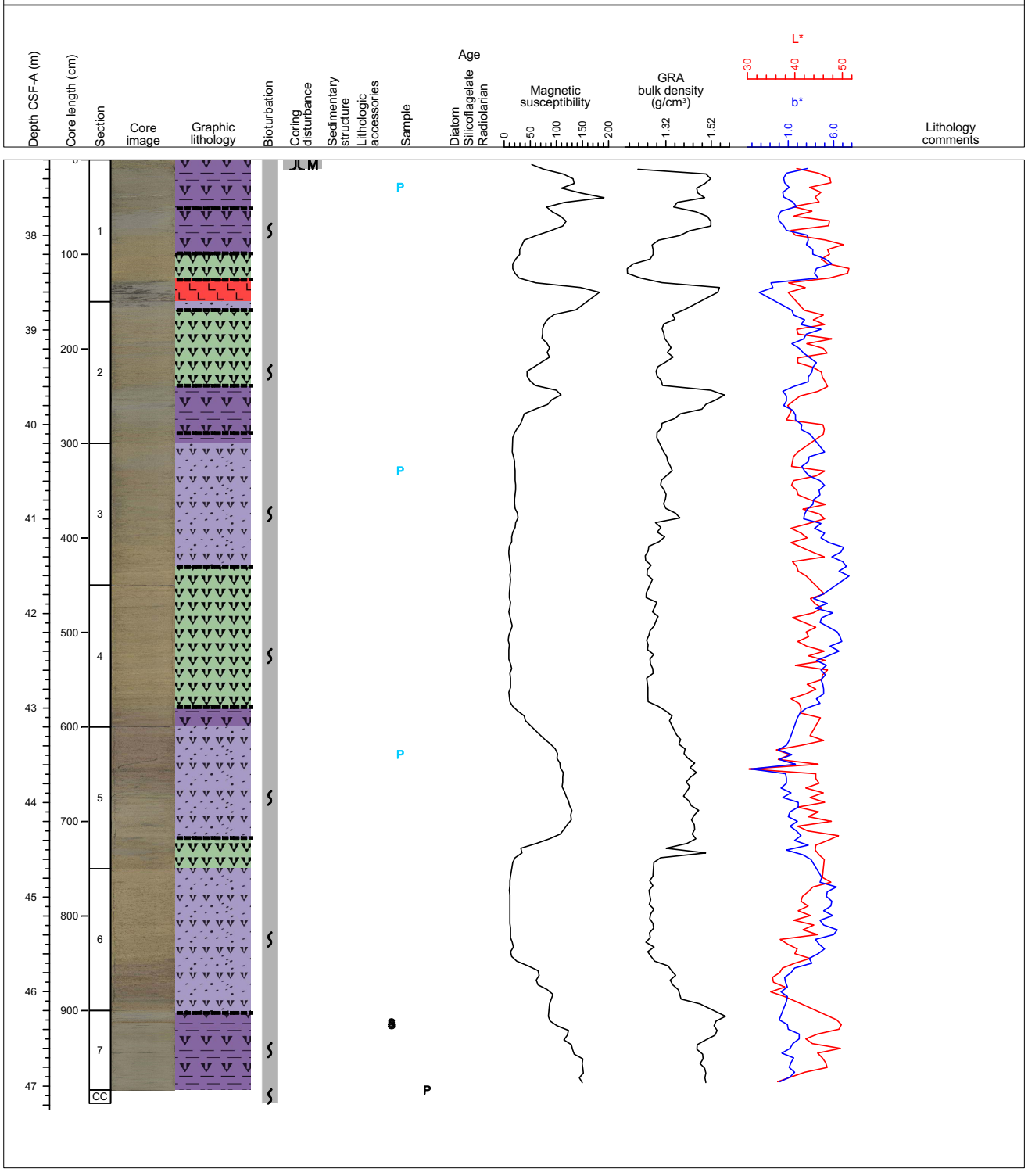
Major lithology is diatom clay (olive gray 5Y 4/2). Secondary lithology is diatom silt (dark greenish gray 10Y 4/1). Basaltic pebbles occur in Section 2. Bioturbation is moderate.



Core Photo

Hole 323-U1341B Core 5H, Interval 37.2-47.18m (CSF-A)

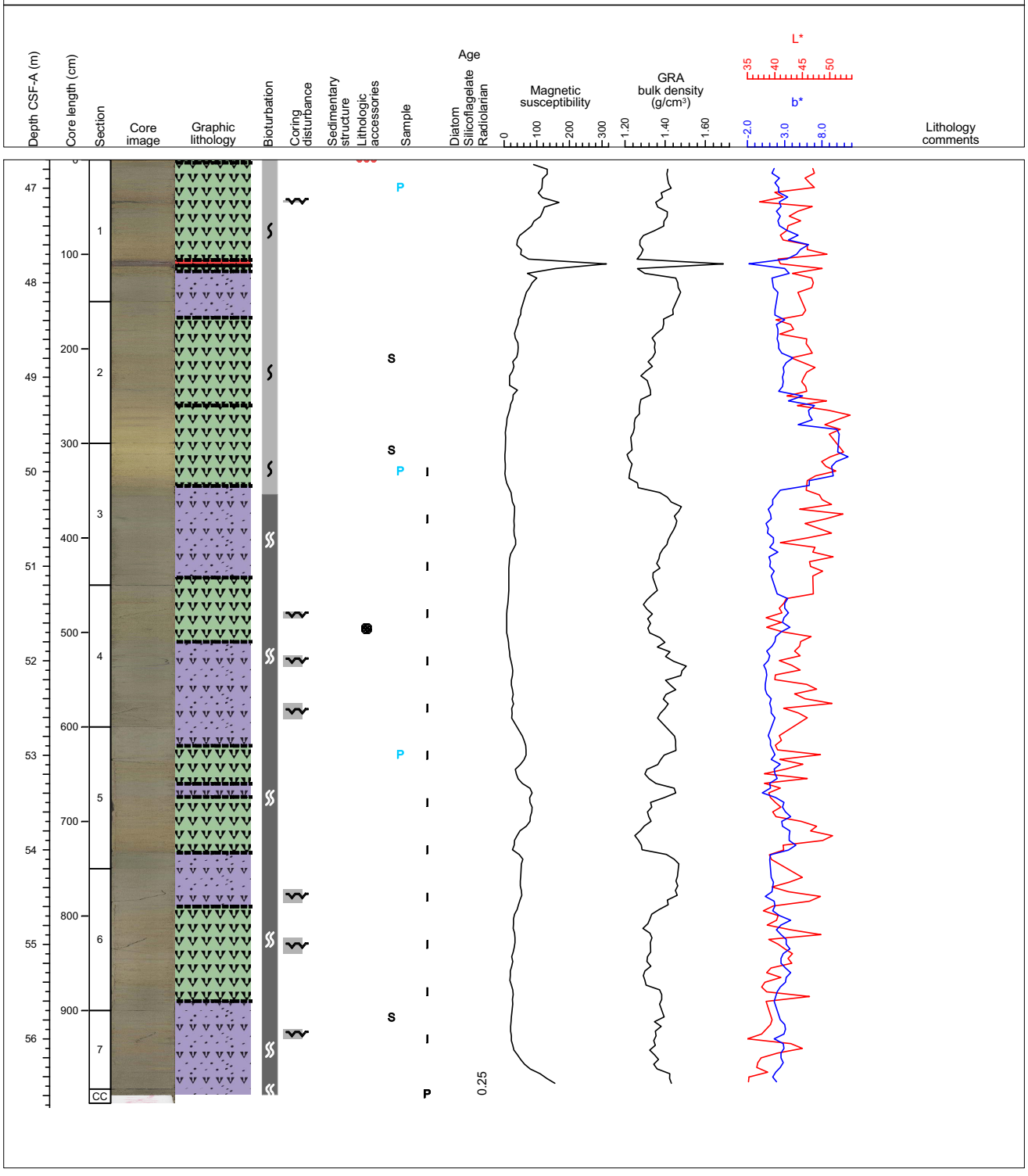
Two alternating lithologies dominate the core dark greenish gray top olive diatom oze and greenish gray diatom clay. The boundaries bewteen the two bed types are often gradual and bioturbated. Mottling and bioturbation occur throught the core. A prominent, about 25cm volcanic ash layer including large angular pebble to gravel-size vitric material is present at the bottom of section 1.



Core Photo

Hole 323-U1341B Core 6H, Interval 46.7-56.68m (CSF-A)

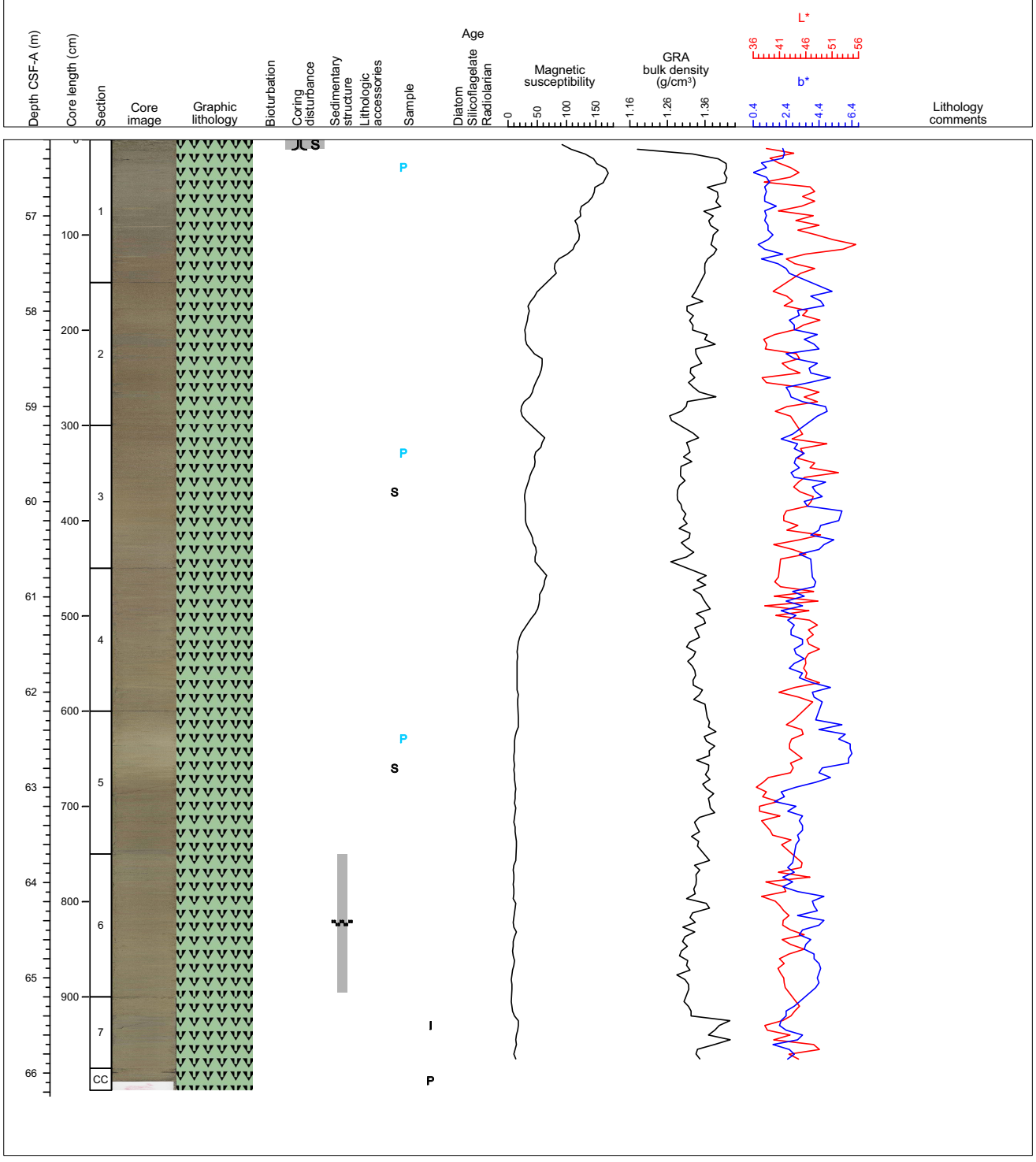
Major lithology is nannofossil-bearing diatom ooze (dark olive 5Y 4/2). Secondary lithology is diatom silt (dark greenish gray 10Y 4/1). They occured alternately. In Section 2 (110cm) to Section 3 (45cm); nannofossil-rich diatom ooze (pale olive 5Y 6/3) occured as minor lithology. In this lithology; Pliocene diatom species Discoasters was identified. In Section 1; brown ash occurs. Bioturbation is moderate.



Core Photo

Hole 323-U1341B Core 7H, Interval 56.2-66.18m (CSF-A)

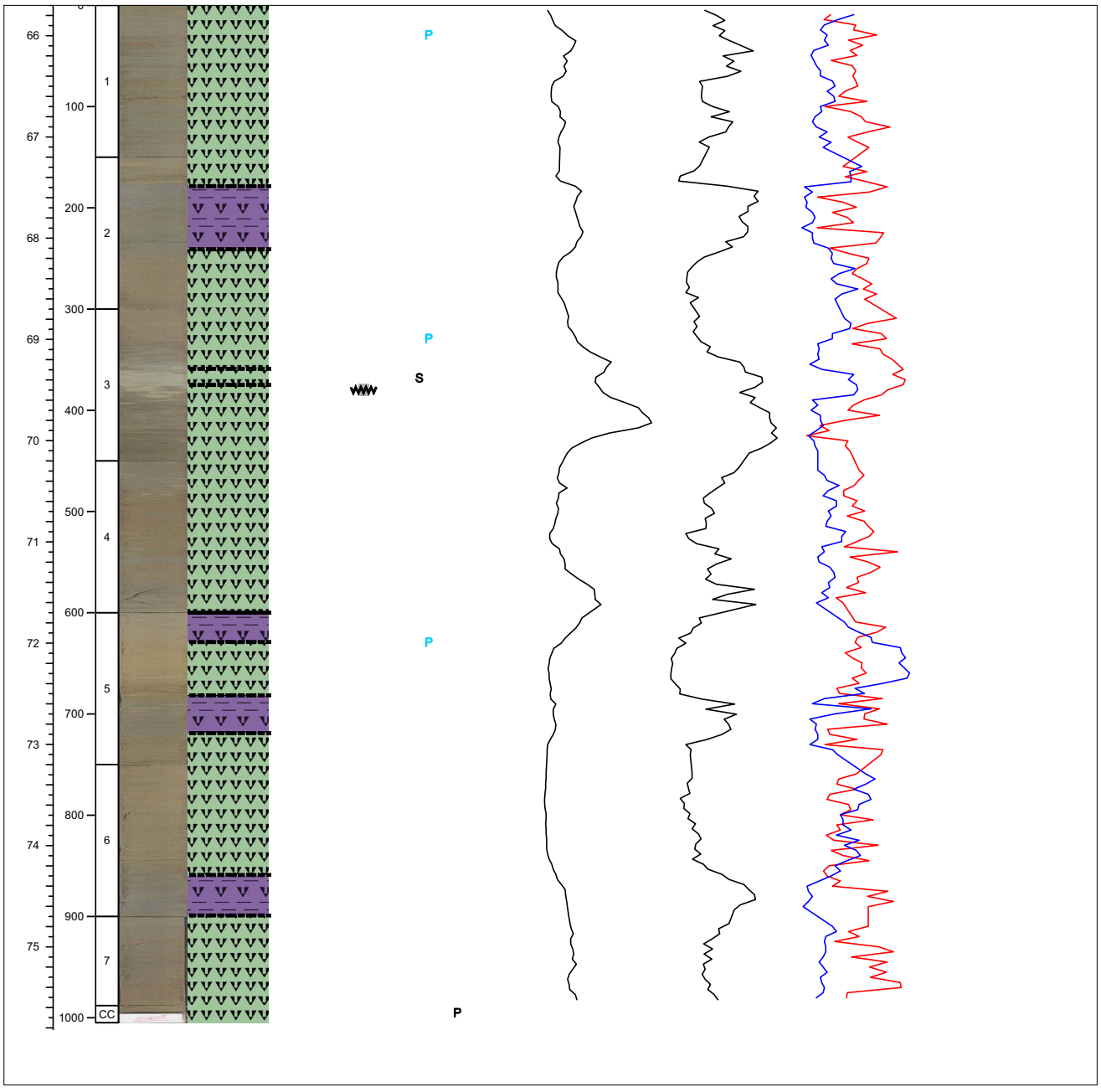
The main lithology is diatom ooze. Section 6 is faintly laminated. A large black pebble is visible near the top of section 1.



Core Photo

Hole 323-U1341B Core 8H, Interval 65.7-75.75m (CSF-A)

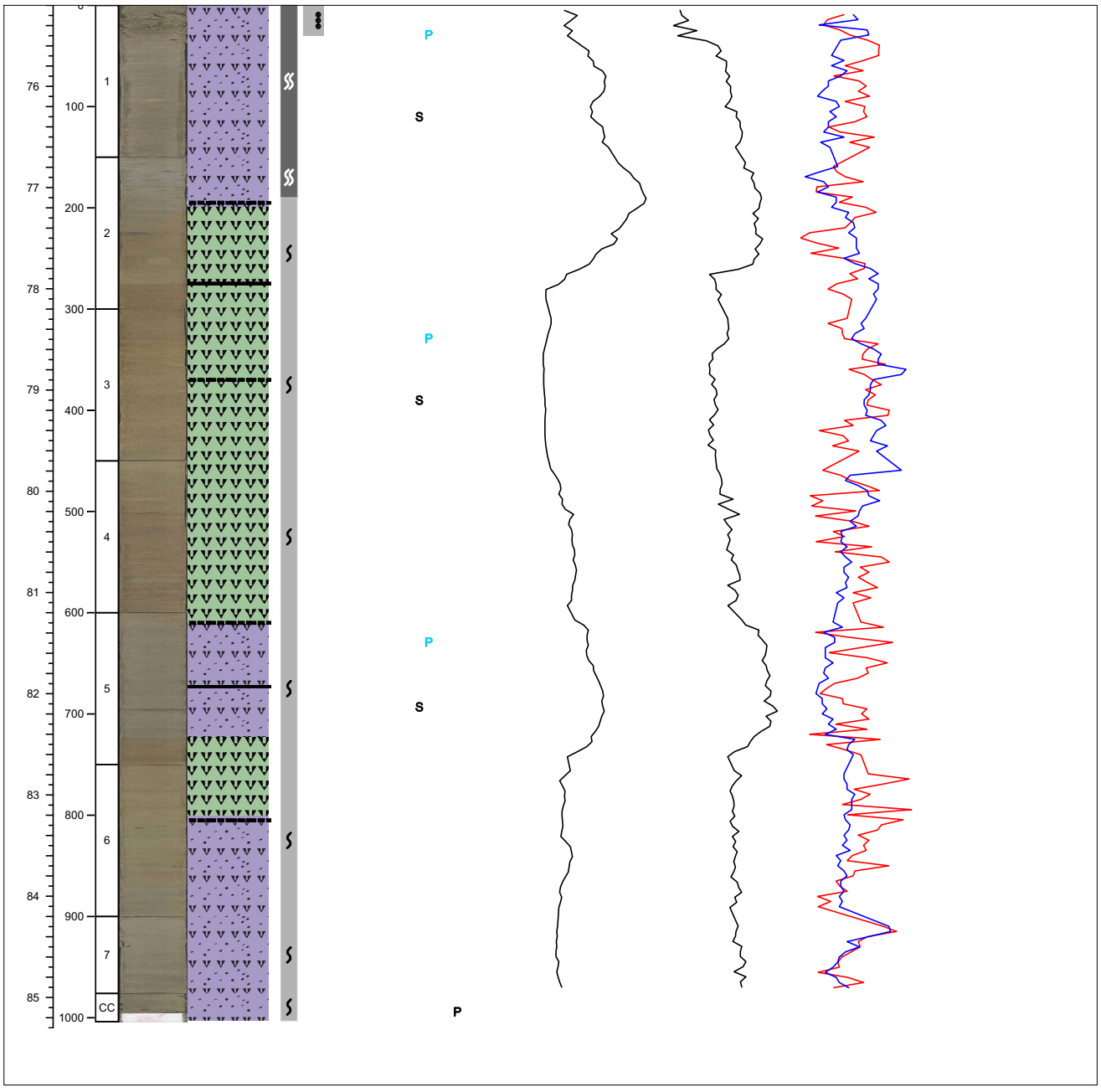
Two main lithologies alternate in beds which thickness ranges between 20cm and more than 1m: dark greenish gray diatom ooze and dark gray diatom clay. A prominent greenish gray layer composed of foraminifer-bearing coccolith-rich diatom ooze that shows significant bioturbation at the bottom.



Core Photo

Hole 323-U1341B Core 9H, Interval 75.2-85.24m (CSF-A)

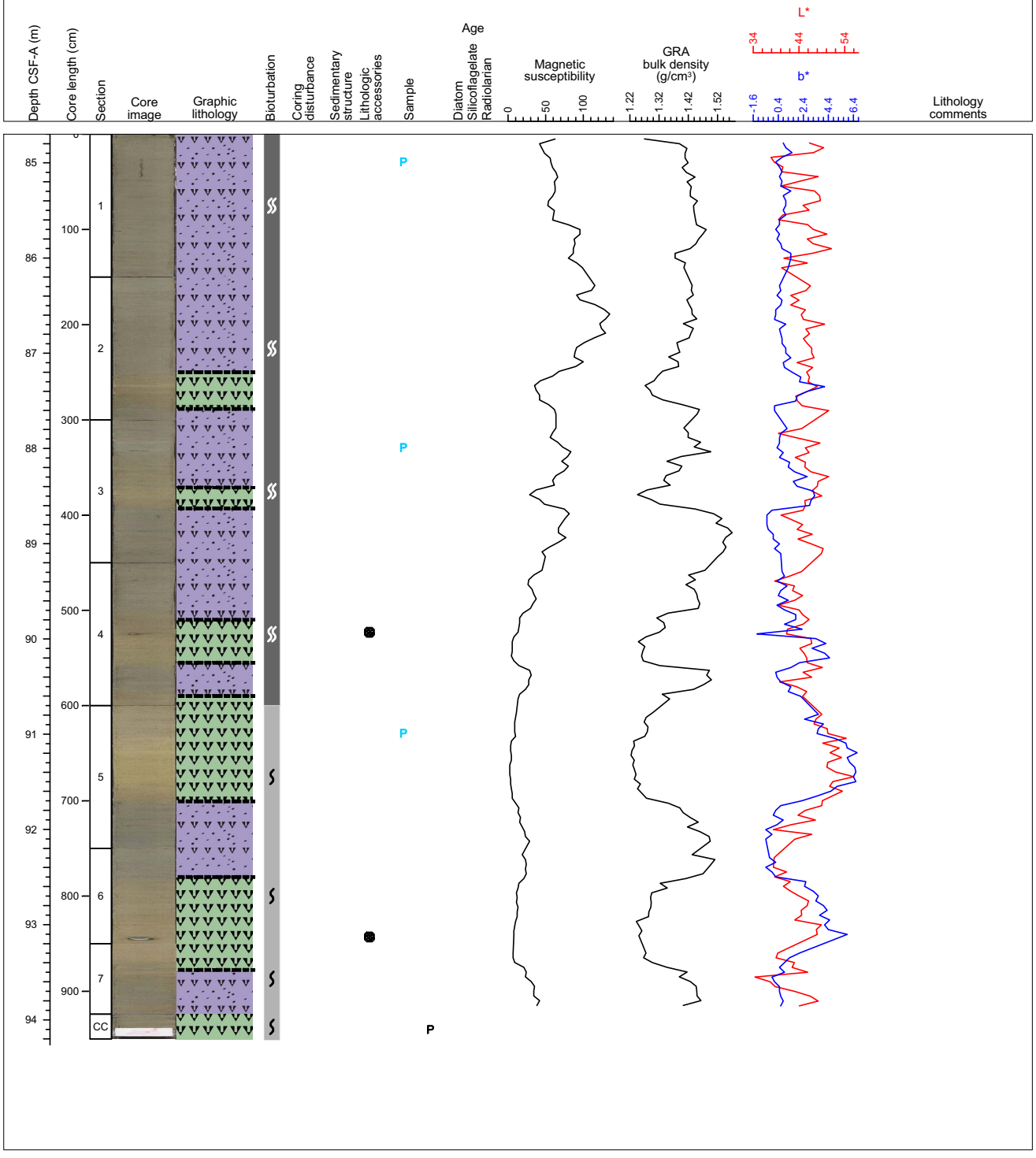
Major lithologies: Soft, dark greenish gray to olive gray to olive diatom ooze and diatom silt, with some ash intermixed; blueish-grayish mottling in diatom clay; mostly gradational, sometimes sharp boundaries; slight to moderate bioturbation; soupy drilling disturbance at top of section 1.



Core Photo

Hole 323-U1341B Core 10H, Interval 84.7-94.2m (CSF-A)

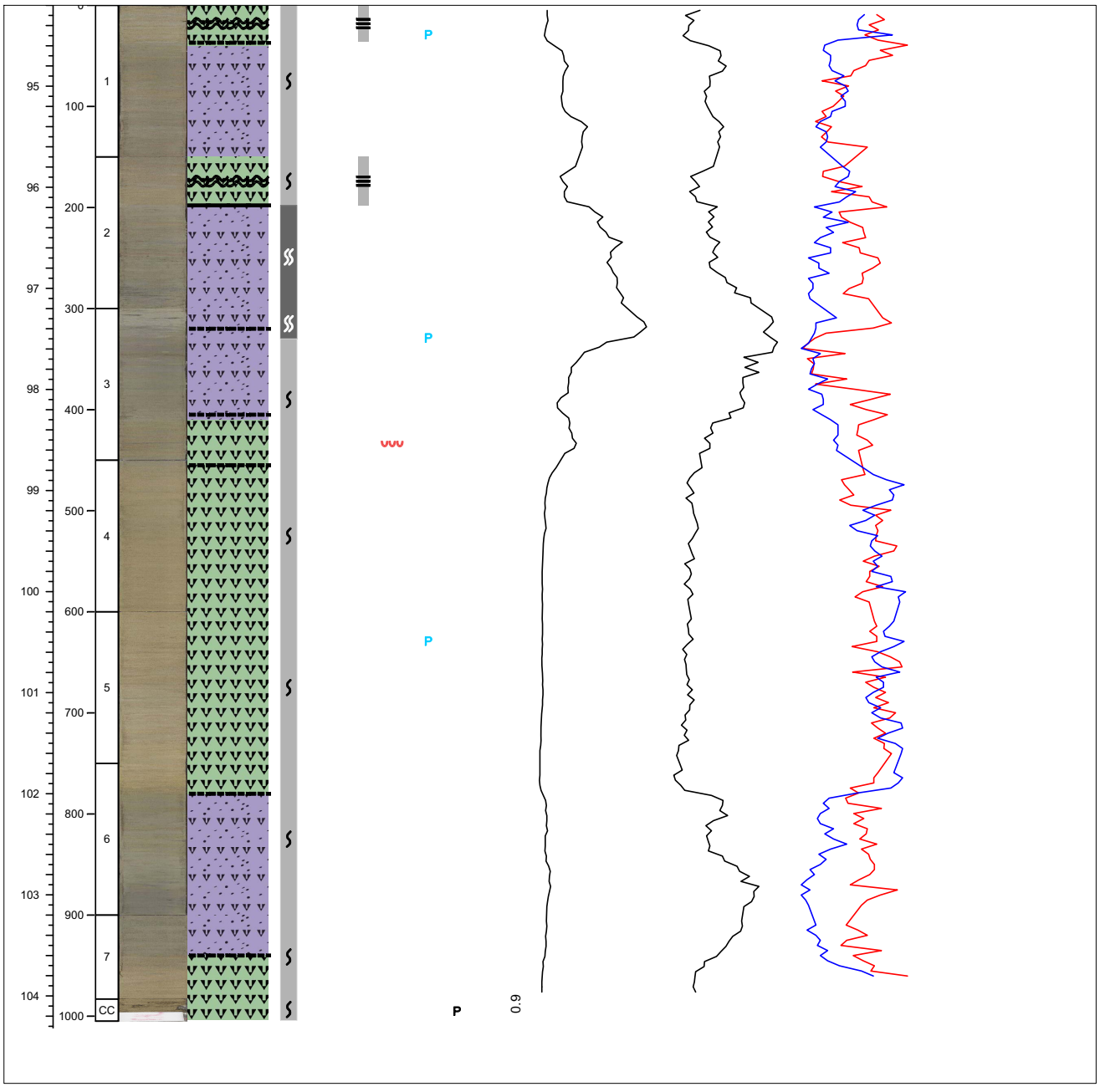
Major lithologies: Dark greenish gray to olive gray to olive diatom silt and diatom ooze, with meter-scale bedding; gradational boundaries between different colors; isolated clasts in sections 4 and 6; slight to moderate bioturbation; no drilling disturbance



Core Photo

Hole 323-U1341B Core 11H, Interval 94.2-104.25m (CSF-A)

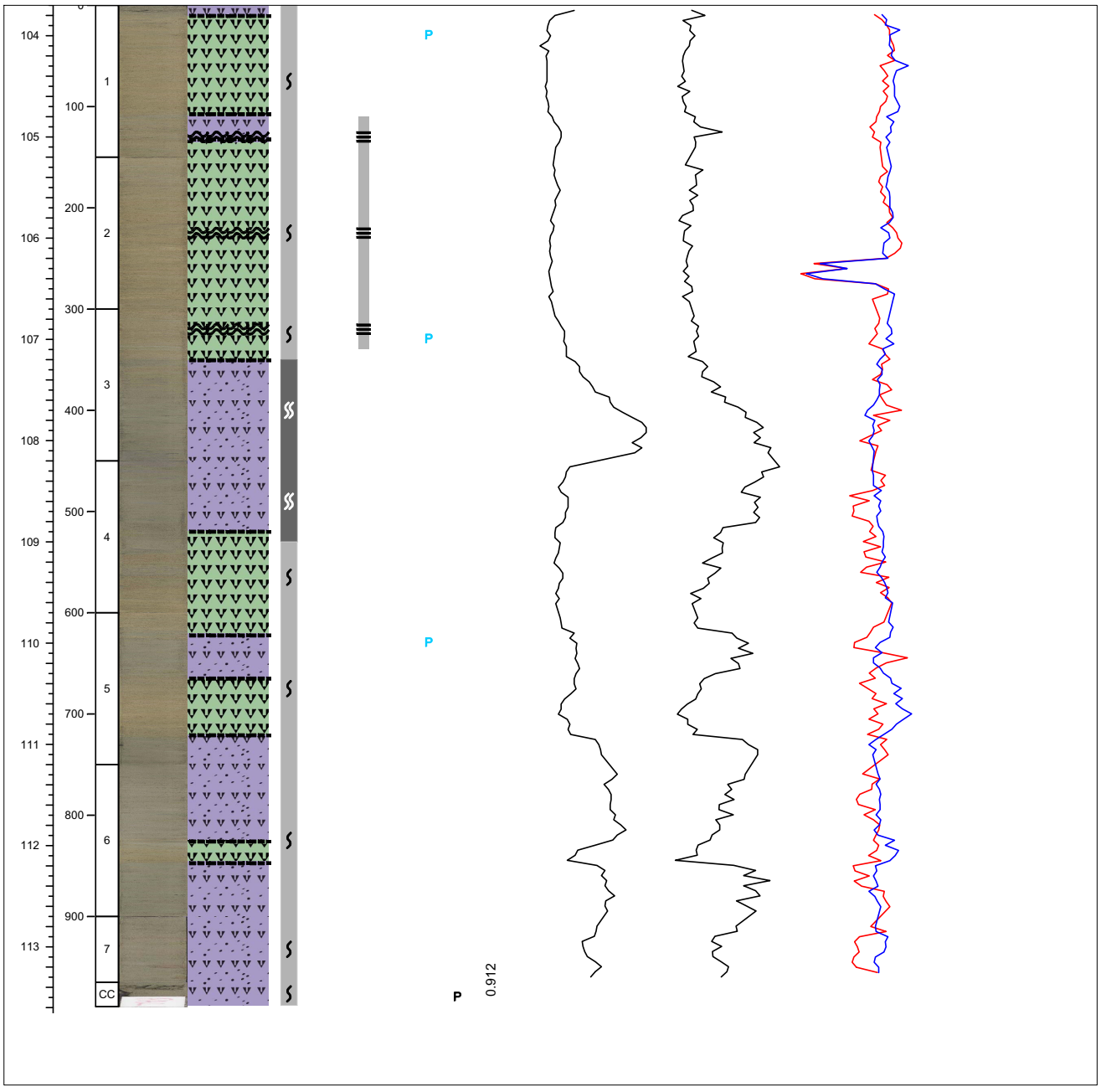
Major lithologies: Soft dark greenish gray to dark olive to olive diatom ooze and sponge-spicule-bearing diatom silt; mostly gradational, rarely sharp boundaries between different colors; mottling by blueish-grayish burrows, whitish spots, little ash; undulated patchy thin bedding in sections 1 and 2; mostly slight, in sections 2 and 3 moderate bioturbation; no drilling disturbance



Core Photo

Hole 323-U1341B Core 12H, Interval 103.7-113.59m (CSF-A)

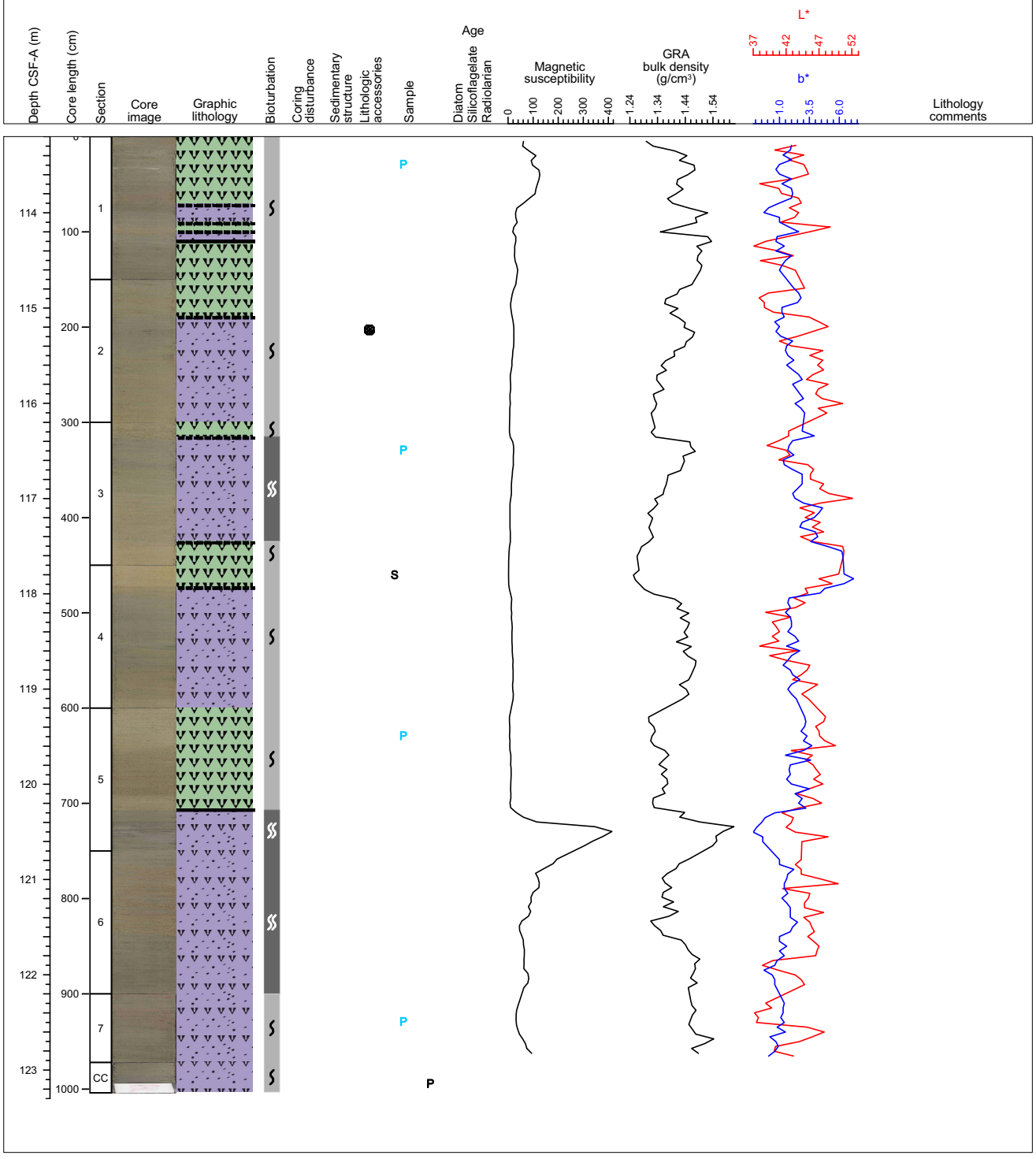
Major lithologies: Soft, dark greenish gray to dark olive to olive diatom ooze and diatom silt; gradational boundaries between different colours; patchy undulating thin bedding in sections 1 to 3; mostly slight, sometimes moderate bioturbation, no drilling disturbance



Core Photo

Hole 323-U1341B Core 13H, Interval 113.2-123.24m (CSF-A)

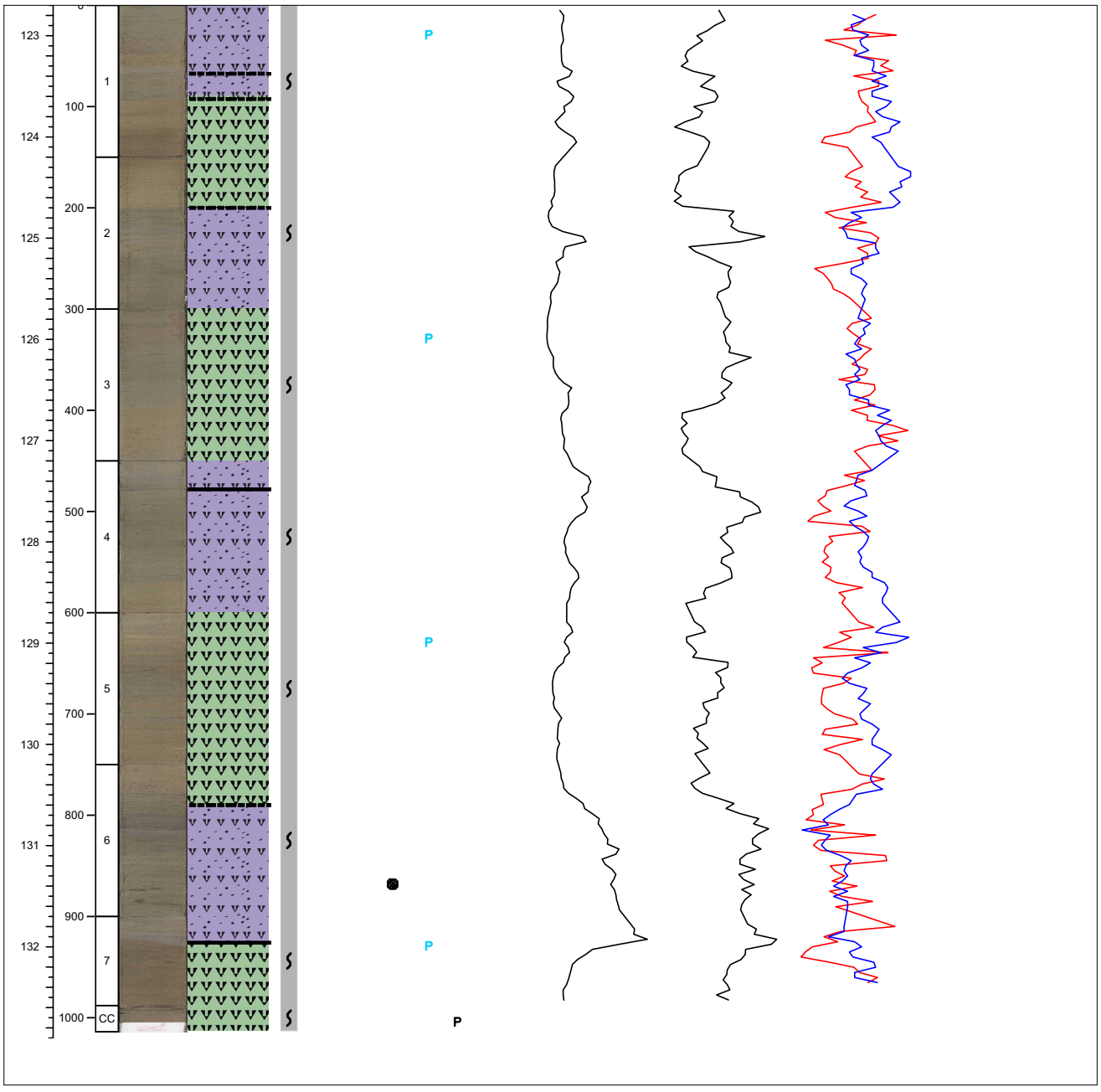
Major lithologies: Soft, dark greenish gray to dark olive to olive diatom silt and diatom ooze; mostly gradational, sometimes sharp boundaries between different colors; slight to moderate bioturbation; no drilling disturbance



Core Photo

Hole 323-U1341B Core 14H, Interval 122.7-132.84m (CSF-A)

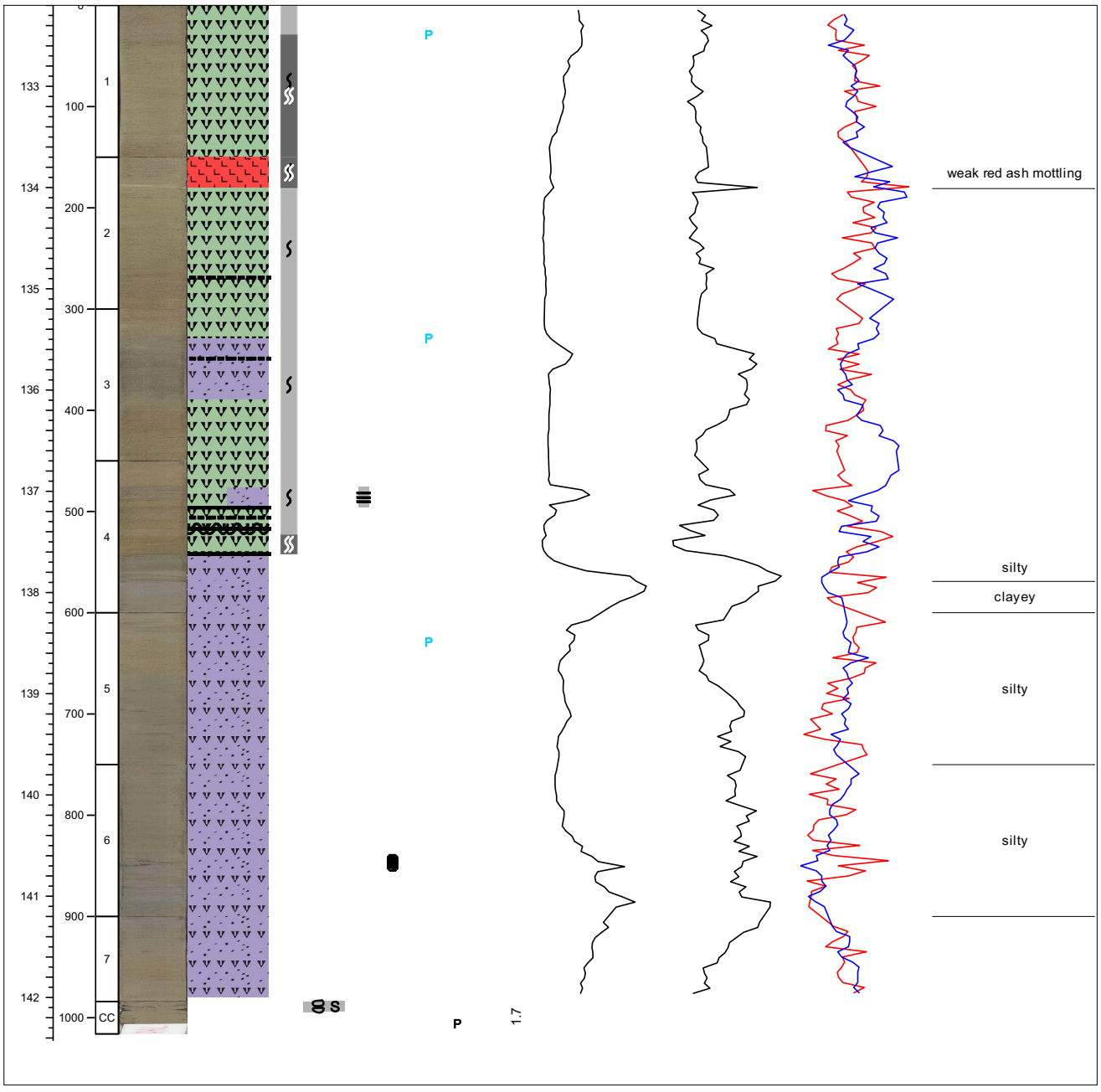
Major lithologies: Soft, dark gray to dark greenish gray to dark olive to olive diatom silt and diatom ooze; mostly gradational, sometimes sharp and tilted boundaries between different colors; clast layer in section 6; slight bioturbation; no drilling disturbance



Core Photo

Hole 323-U1341B Core 15H, Interval 132.2-142.36m (CSF-A)

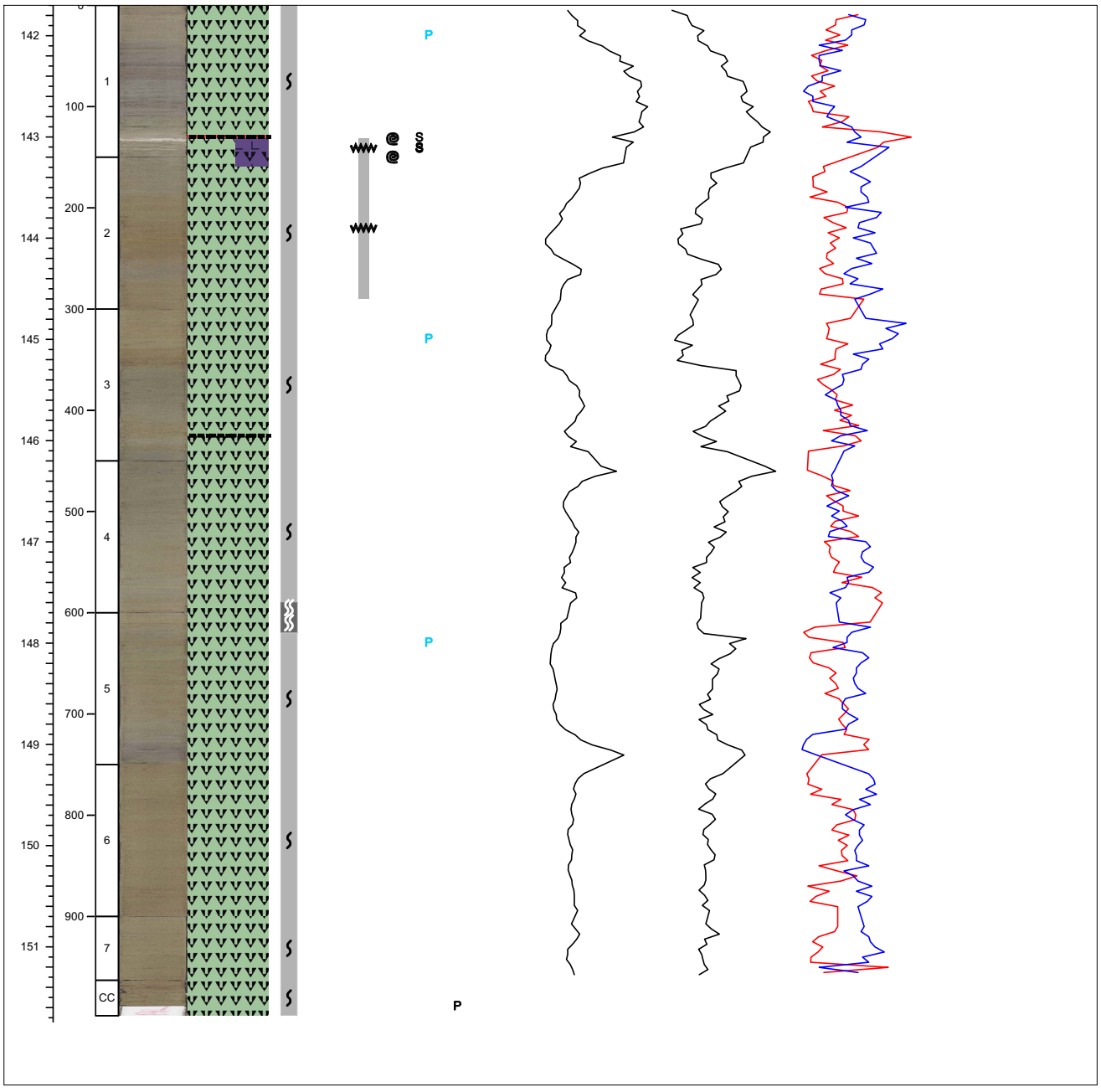
Main lithology: Diatom ooze. Secondary lithology: Diatom silt. Thin bed at Sec. 4. Red ash in Section 2.



Core Photo

Hole 323-U1341B Core 16H, Interval 141.7-151.68m (CSF-A)

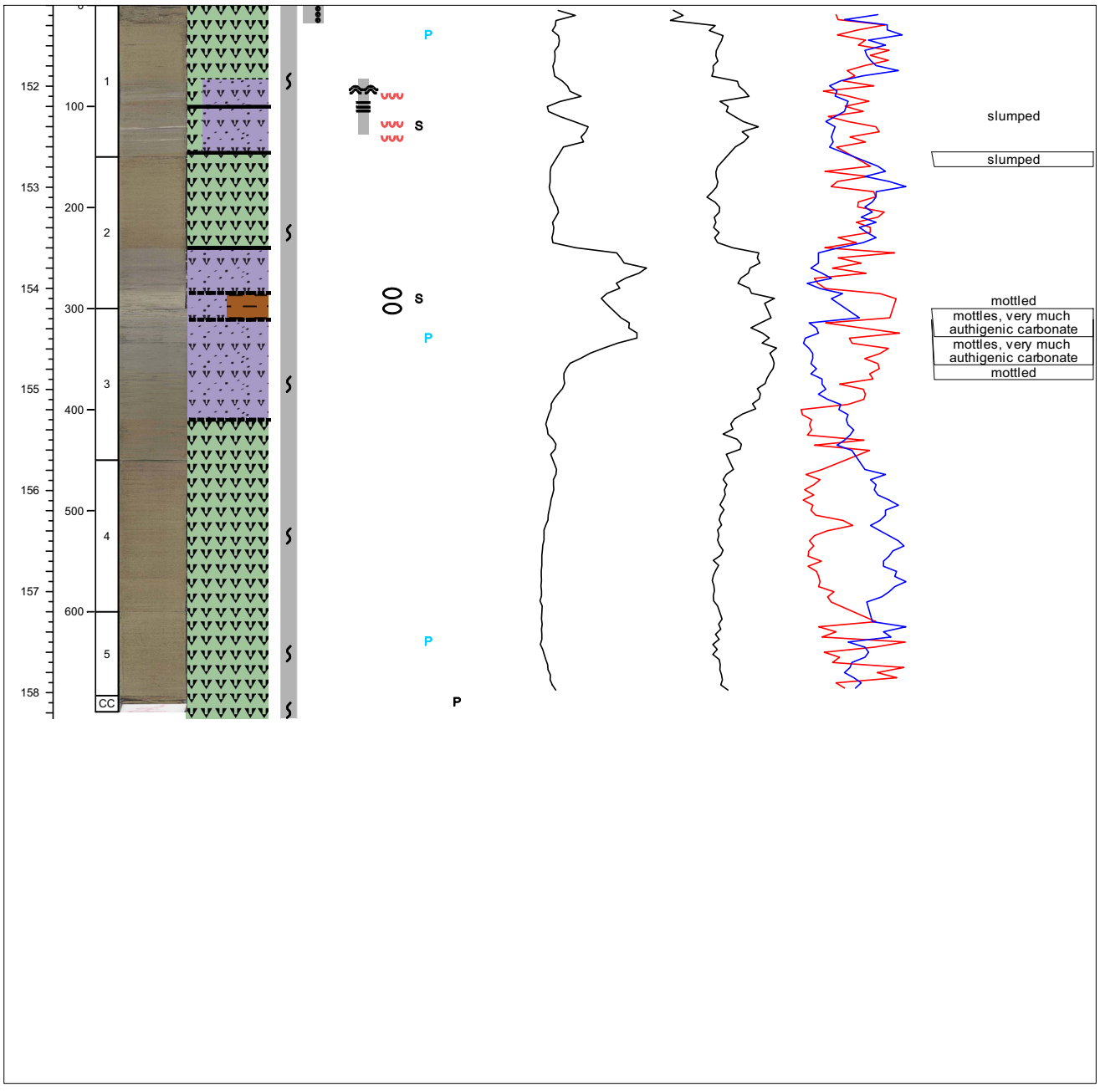
Main lithology: diatom ooze. Alternation of color (10Y 4/1 and 5Y 5/2). Dolomite nodule at Sec.1 to Sec. 2 just below the pinkish ash (2.5YR 8/1).



Core Photo

Hole 323-U1341B Core 17H, Interval 151.2-158.19m (CSF-A)

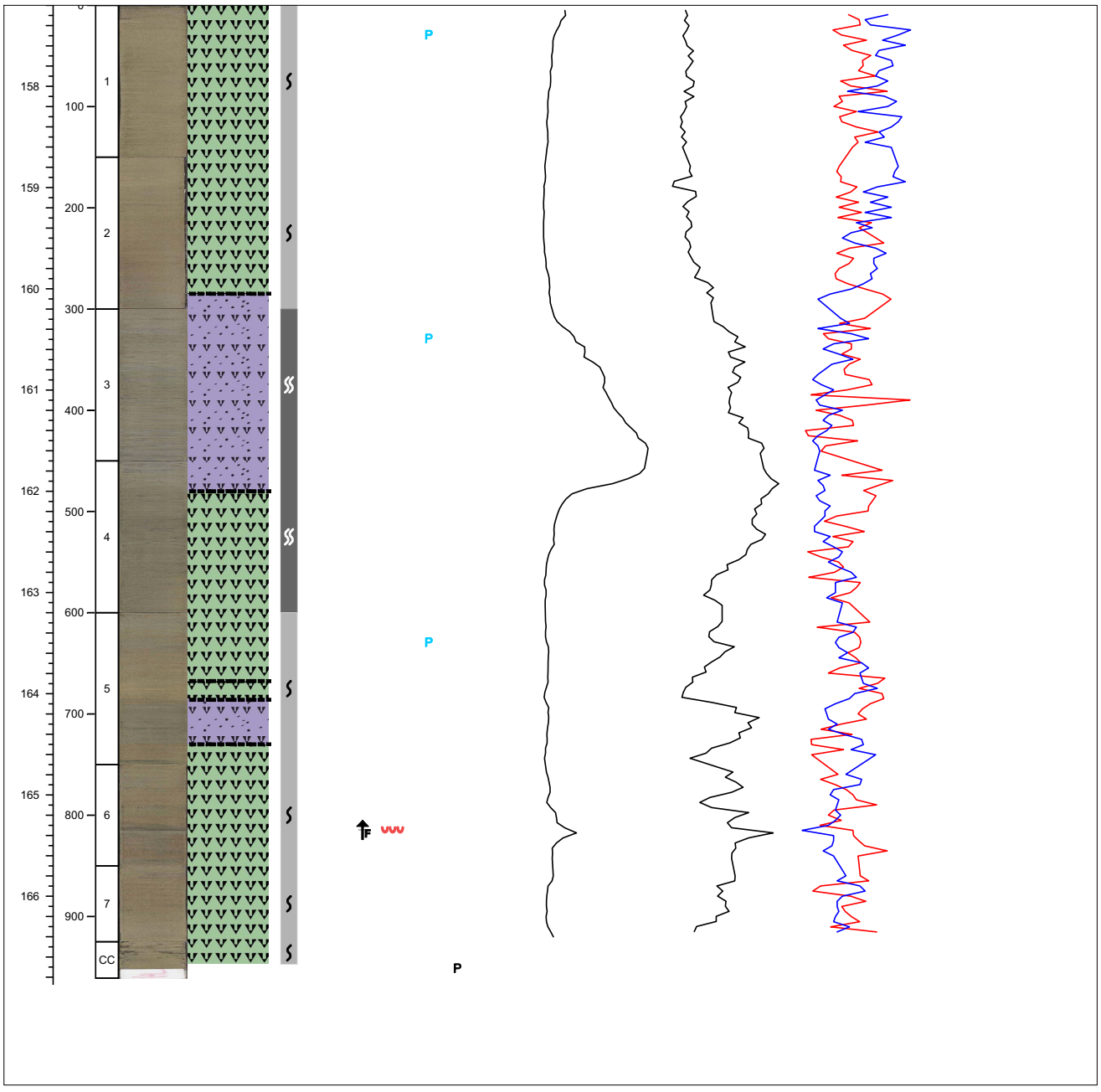
Major lithologies: Soft, dark greenish gray to gray to olive diatom ooze and diatom silt; both gradational and sharp contacts between different colors; patchy occurrence of diatom-bearing clay with large amounts of fine authigenic carbonate precipitates in sections 2 and 3; soft sediment deformation in Section 1; slight bioturbation; slurry drilling disturbance at top of Section 1.



Core Photo

Hole 323-U1341B Core 18H, Interval 157.2-166.81m (CSF-A)

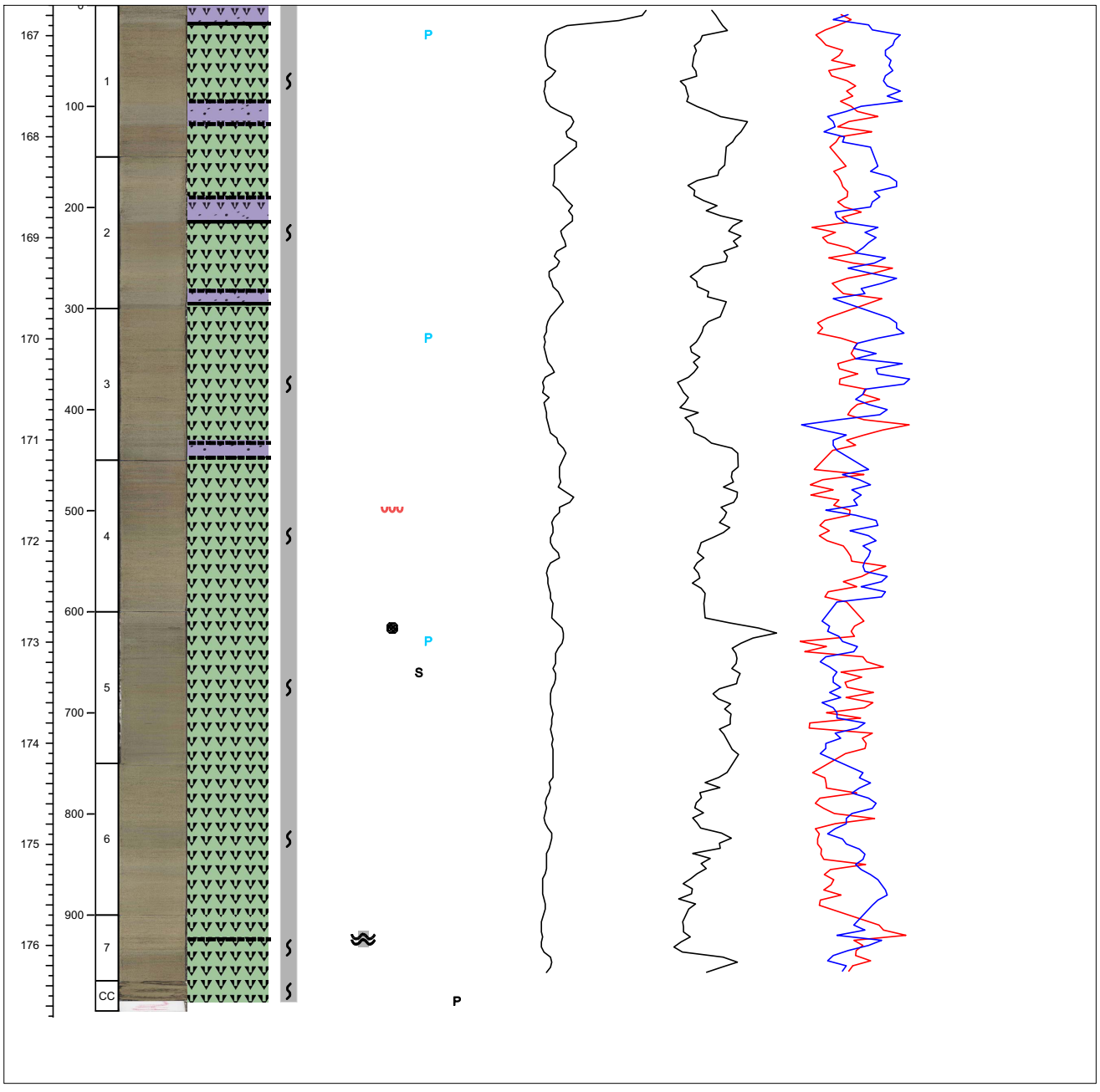
Major lithologies:Soft, dark greenish gray to gray to olive diatom ooze and diatom silt; gradational boundaries between different colors; some intermixed ash and ash layers; slight to moderate bioturbation; no drilling disturbance



Core Photo

Hole 323-U1341B Core 19H, Interval 166.7-176.65m (CSF-A)

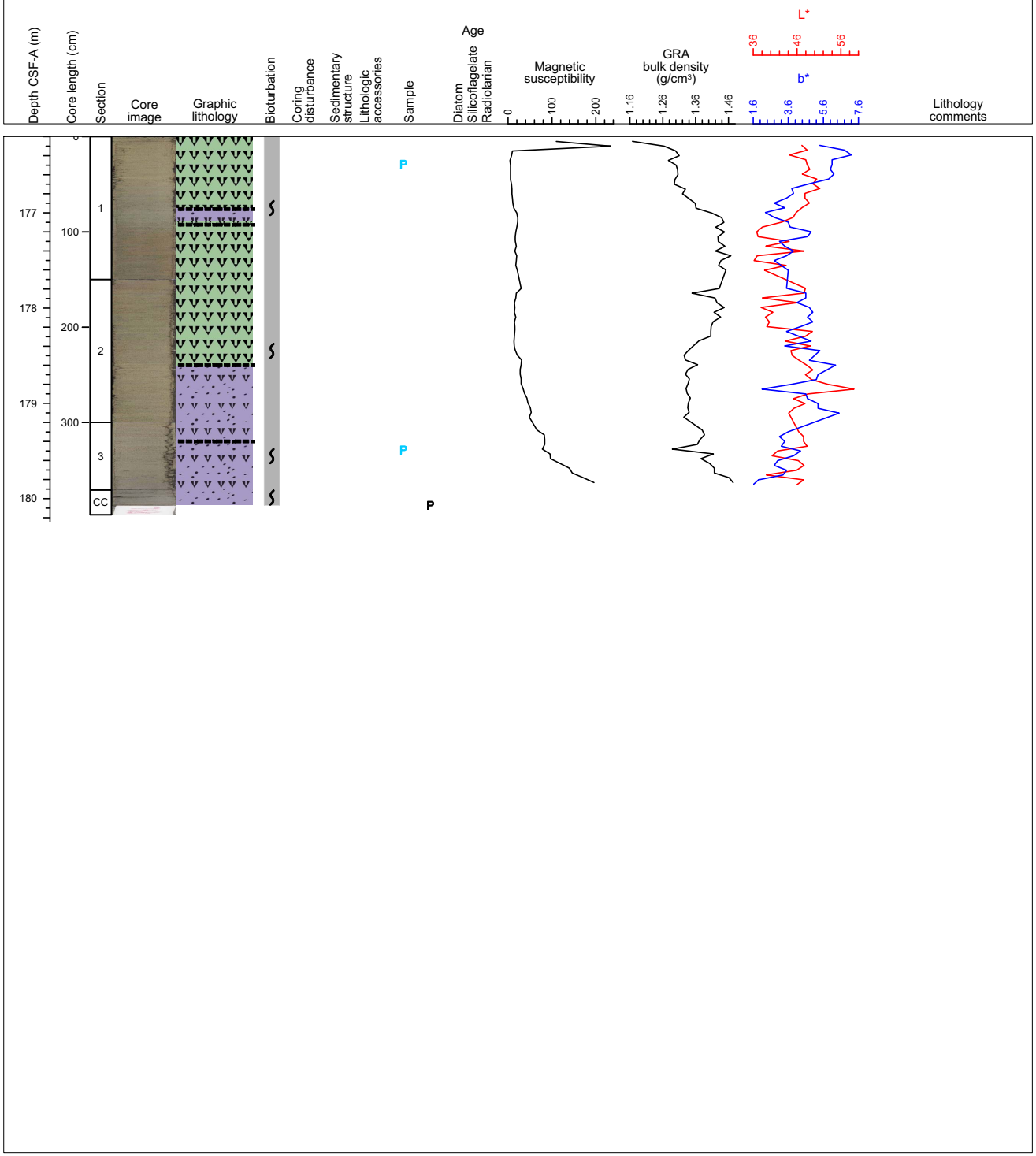
Major lithologies: Dark greenish gray to gray diatom ooze and diatom silt; mostly gradational, sometimes sharp boundaries between different colors; slight bioturbation; no drilling disturbance



Core Photo

Hole 323-U1341B Core 20H, Interval 176.2-180.17m (CSF-A)

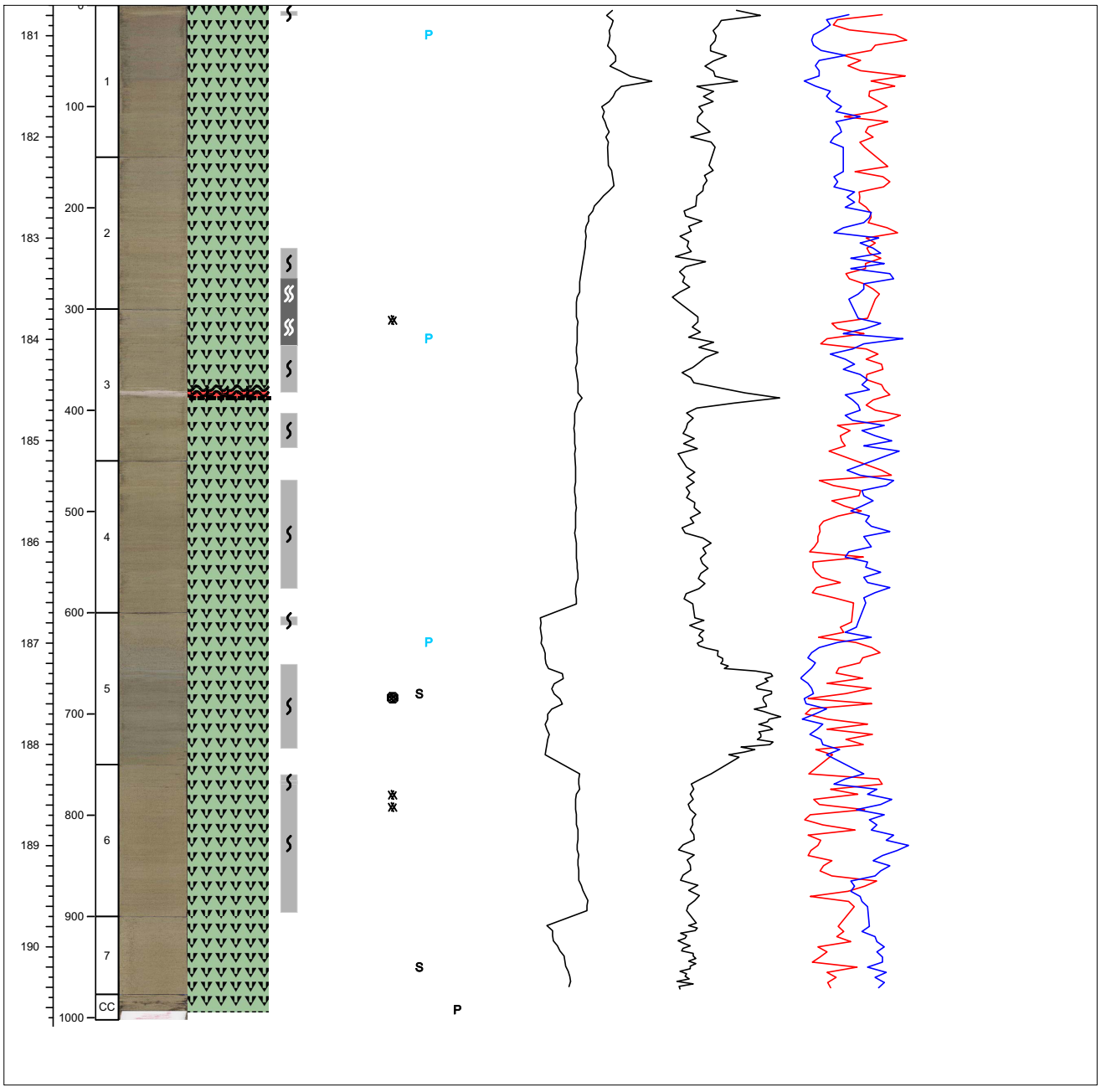
Major lithologies: Soft dark greenish gray to olive to gray diatom ooze and diatom silt; gradational boundaries between different colors; slight bioturbation; slight drilling disturbance



Core Photo

Hole 323-U1341B Core 21H, Interval 180.7-190.72m (CSF-A)

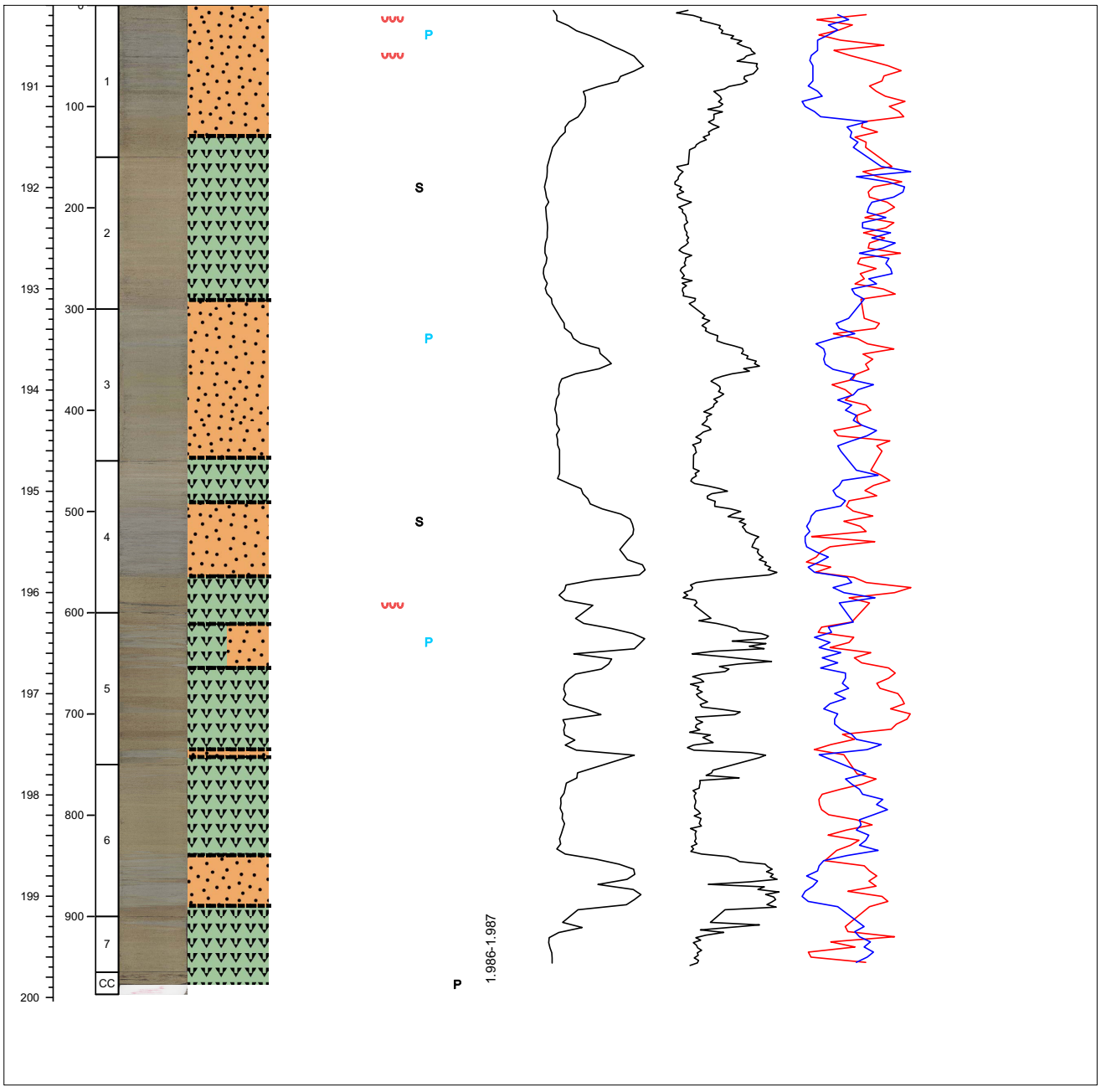
Major lithology: dark greenish gray to olive gray diatom ooze. There is one gray fine ash in Section 3. Bioturbation is slight to moderate throughout with no identifiable trace fossils. One small angular pebble is observed in Section 5 and several white agggregates of sponge spicules dot the lower sections. Drilling disturbance is absent except in the core catcher.



Core Photo

Hole 323-U1341B Core 22H, Interval 190.2-199.97m (CSF-A)

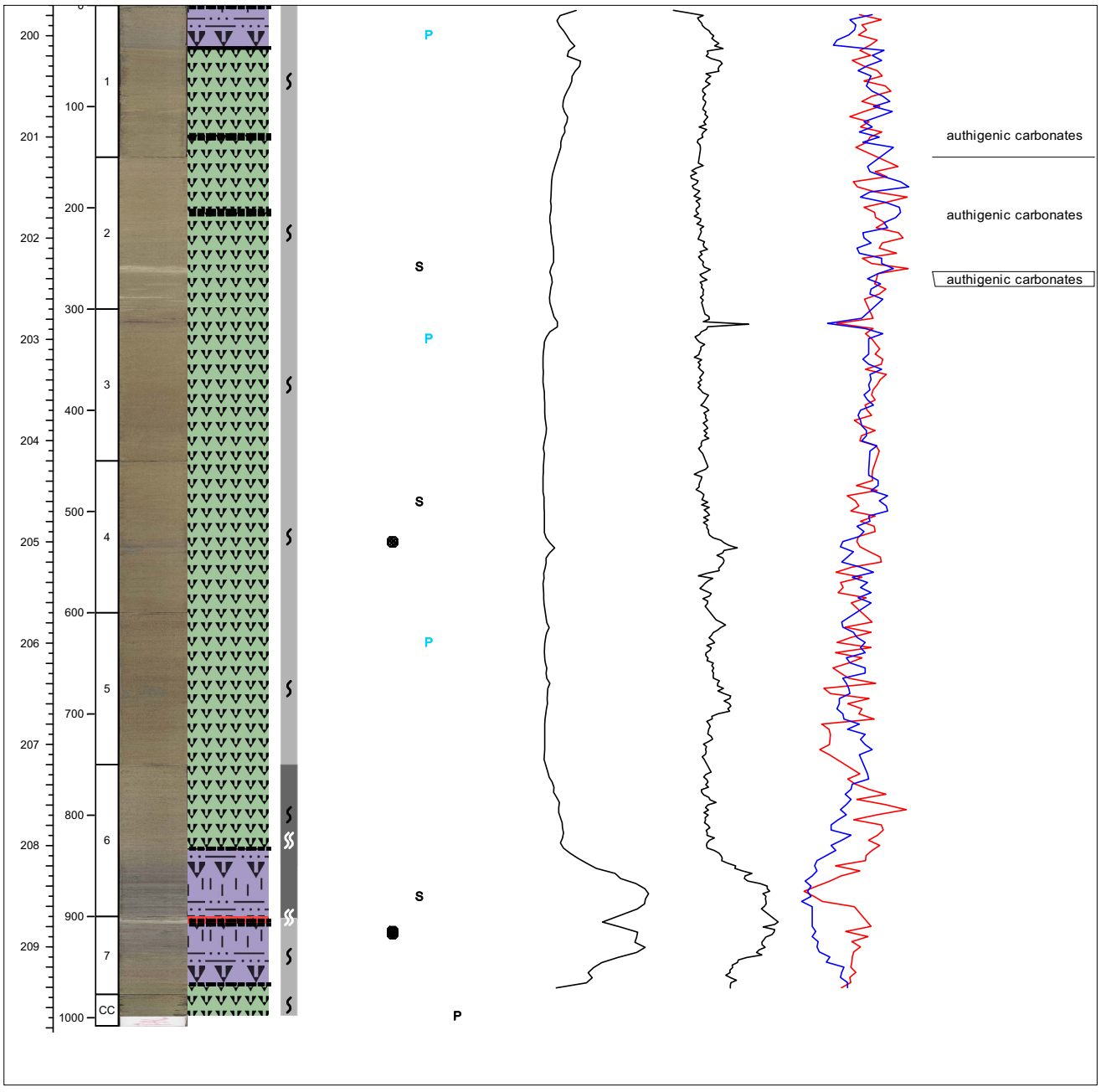
Two main lithologies alternate throughout the core: olive gray diatom ooze and very dark gray diaom-rich silt. The transitions between the two lithologies are gradual.



Core Photo

Hole 323-U1341B Core 23H, Interval 199.7-209.78m (CSF-A)

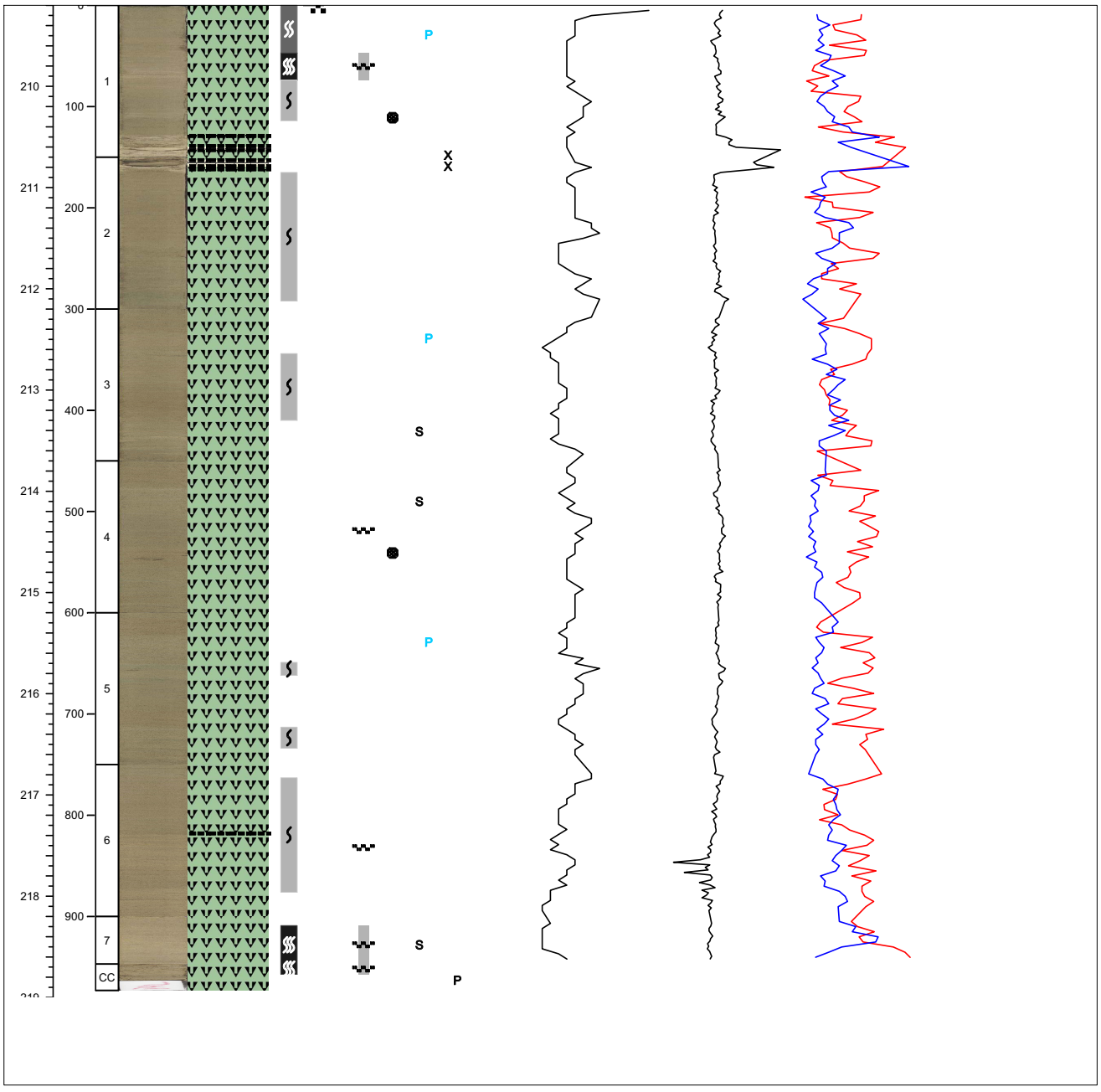
Major lithology is diatom ooze (olive gray 5Y 4/1). Secondary lithology is sponge spicule diatom clayey silt (dark gray 5Y 4/1). The secondary lithology occured only the top of Section 1 and the bottom of Section 6. Dolimited diatom ooze layer (light olive gray 5Y 6/2) occured in Section 2. Gray 4cm ash layer occured in Section 7 (4-6cm). Bioturbation is slight to moderate.



Core Photo

Hole 323-U1341B Core 24H, Interval 209.2-218.93m (CSF-A)

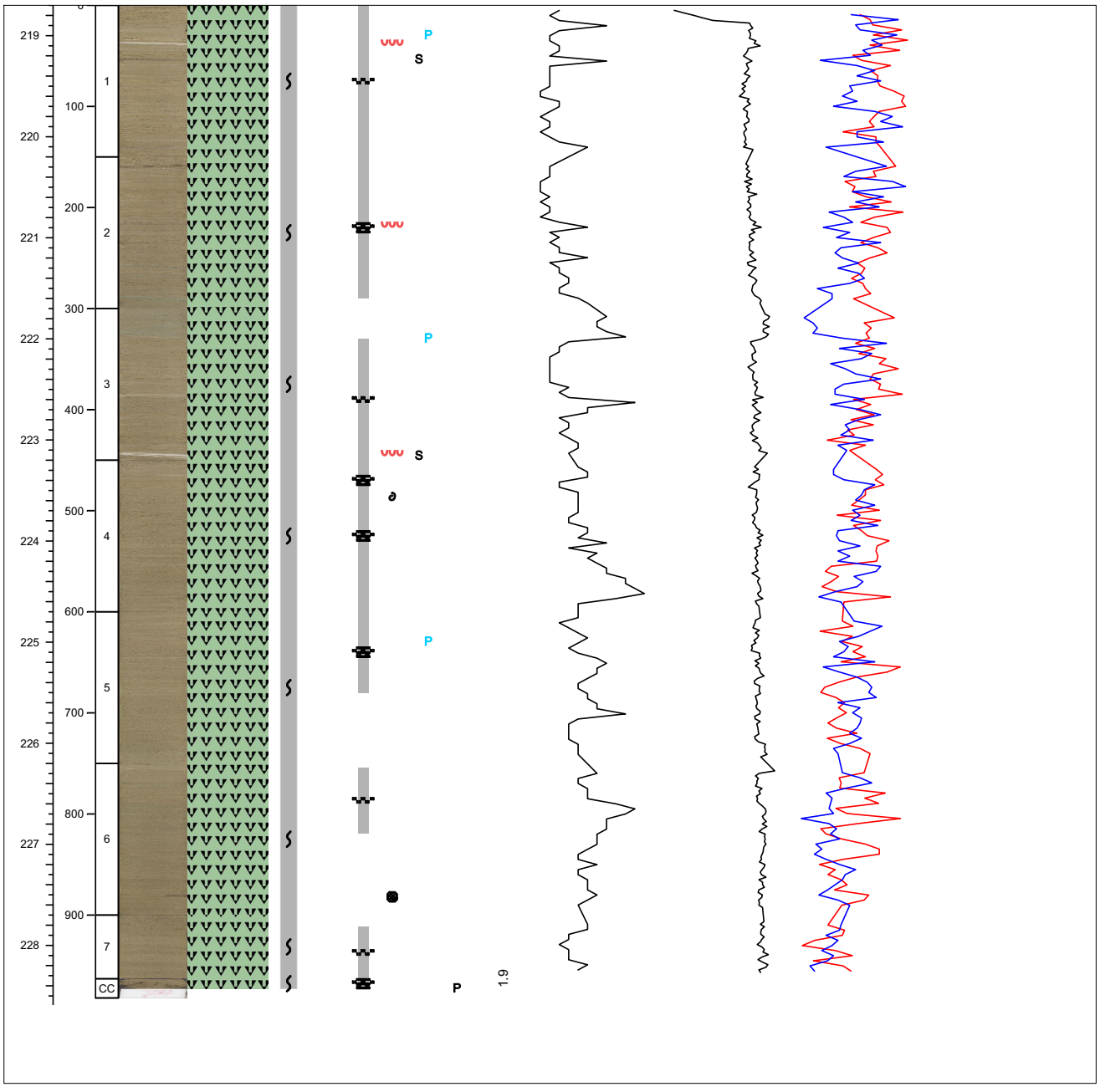
Main lithology: olive gray and light olive brown diatom ooze. The main lithologies grade into one another in Section 6. Two dolostone layers are found spanning Sections 1 and 2 with gradational dolomite-rich diatom ooze layers between them. No ash layers are observed. Several faintly visible laminated intervals that are heavily bioturbated are found. Bioturbation is slight to strong throughout the core. Disturbance is minimal.



Core Photo

Hole 323-U1341B Core 25H, Interval 218.7-228.52m (CSF-A)

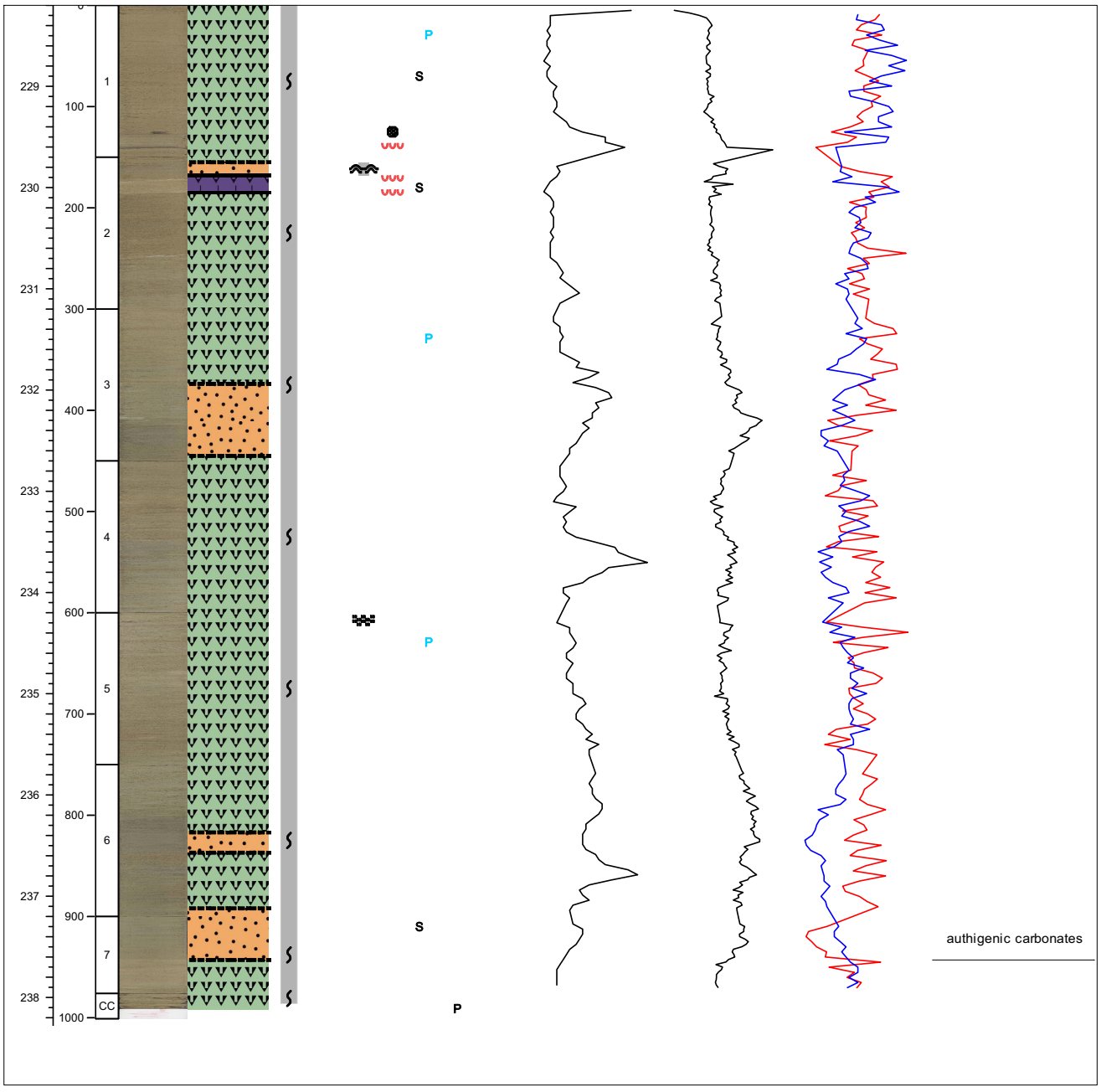
Major lithology is diatom ooze (olive gray 5Y 4/2; olive 5Y 5/3; greenish brown 2.5Y 5/2; very dark gray 5Y 3/1; pale olive 5Y 6/3). Very dark gray laminae is spicule-diatom ooze. Pale olive laminae is monospecific diatom ooze.



Core Photo

Hole 323-U1341B Core 26H, Interval 228.2-238.21m (CSF-A)

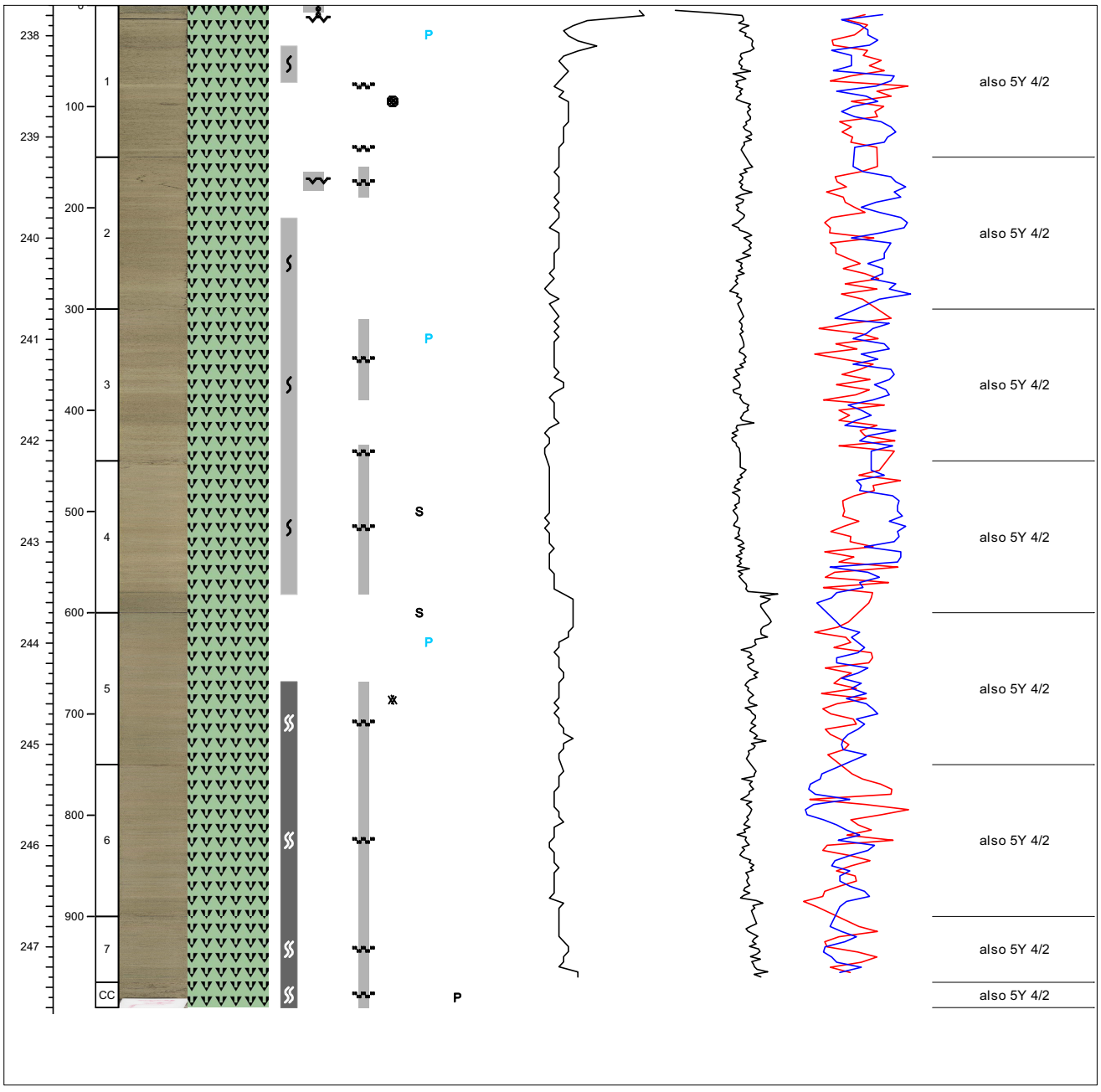
Major lithology is diatom oze (olive gray 5Y 4/2). Secondary lithology is diatom-rich silt (dark greenish gray 10Y 4/1). They occured alternately but the major lithology is dominant (80%). One large pebble (probably volcanic) occured in Section 1. Bioturbation is slight. Tilted bedding is recognized in the top of Section 2.



Core Photo

Hole 323-U1341B Core 27H, Interval 237.7-247.6m (CSF-A)

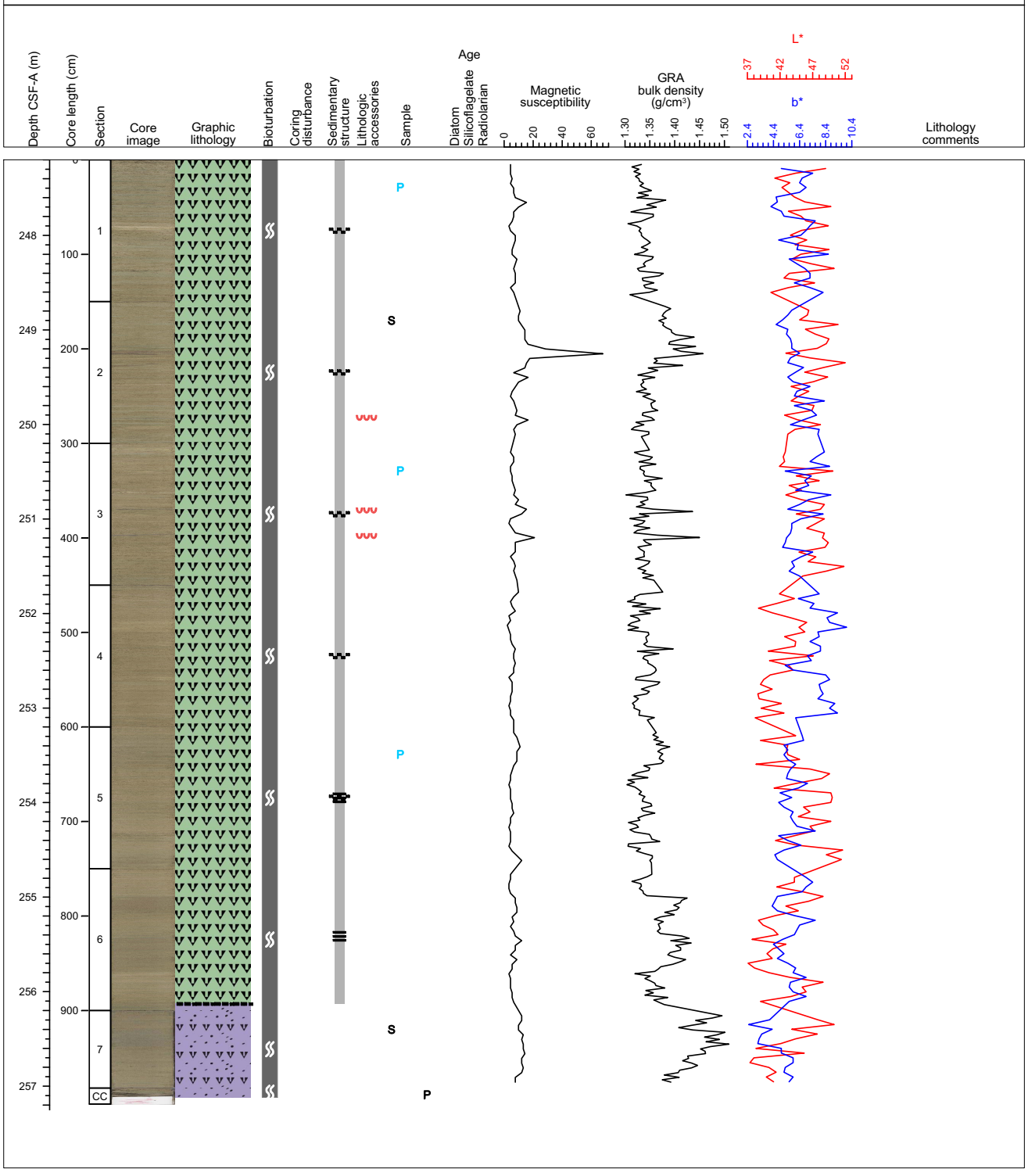
Major lithology is olive to olive gray diatom ooze. Bioturbation is slight in Sections 1 to 4 and moderate from Section 5 to the end of the core. There is an angular slate pebble at 95 cm in section 1. Faintly laminated throughout.



Core Photo

Hole 323-U1341B Core 28H, Interval 247.2-257.19m (CSF-A)

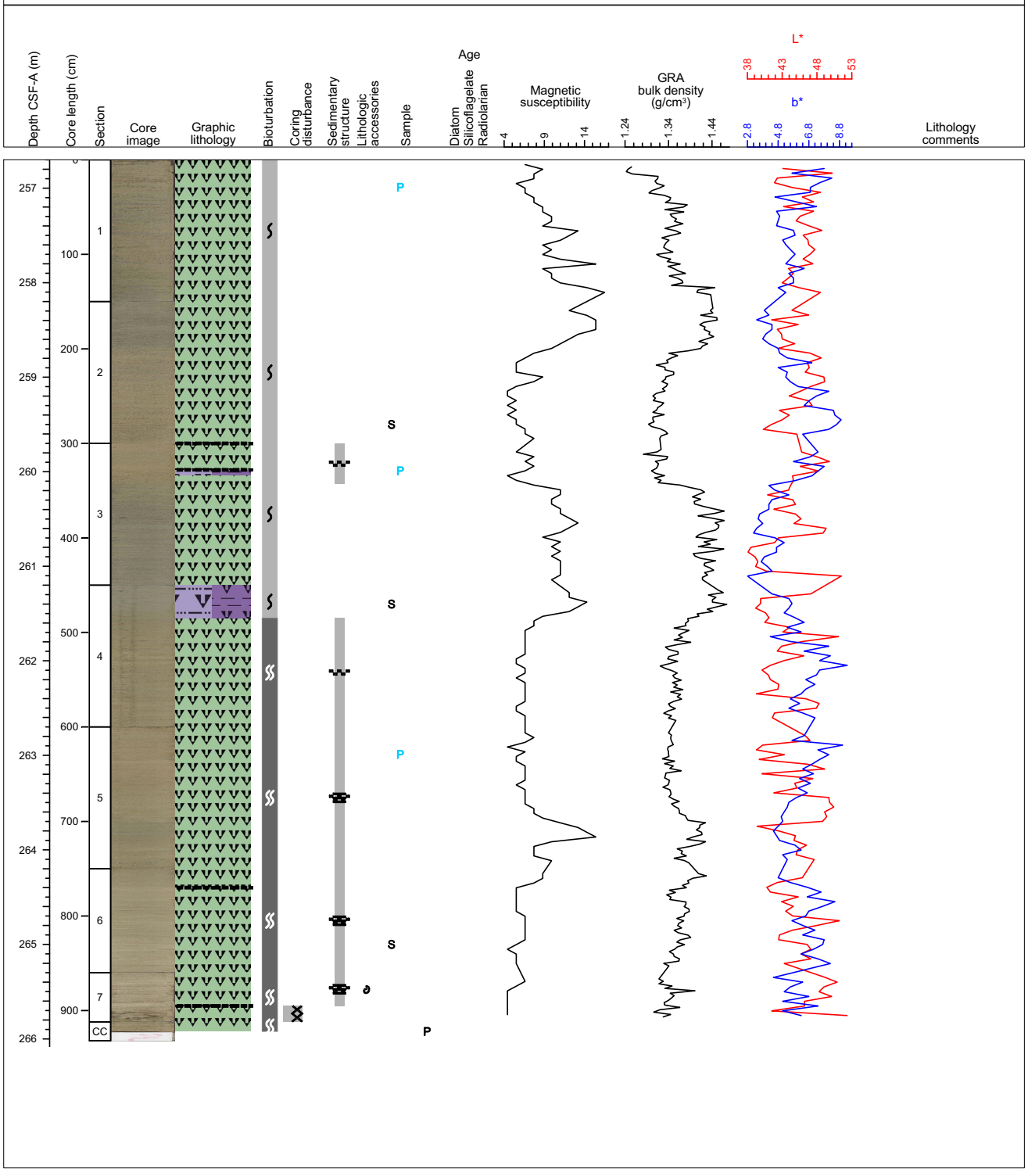
Major lithology is spicule-bearing diatom ooze (main color is olive gray 5Y 5/2 laminated with pale olive 5Y 6/2 to olive gray 5Y 4/2). Pale olive laminae is mainly mono-specific diatom ooze. In the bottom of Section 6 and in Section 7; The main lithology is diatom silt (5Y 4/2). Bioturbation is moderate.



Core Photo

Hole 323-U1341B Core 29H, Interval 256.7-266.02m (CSF-A)

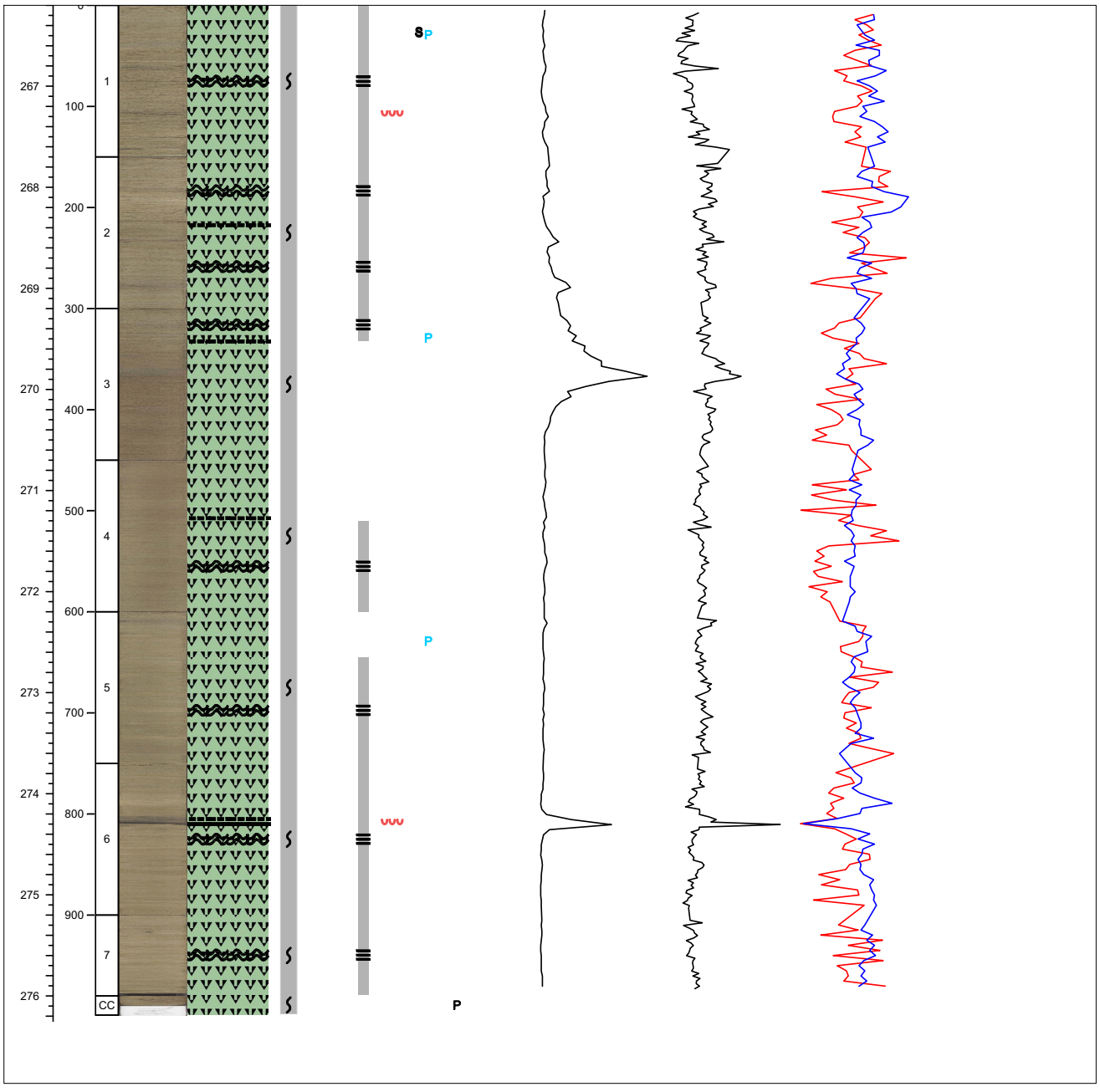
Major lithology is diatom ooze (olive gray 5Y 4/2 to olive 5Y 5/3). In olive layer; faint laminae is recognized. In Section 3; diatom clayey silt occured as minor lithology. Bioturbation is slight to moderate. Many burrows are recognized in faint laminae section. A shell occurs in Section 7.



Core Photo

Hole 323-U1341B Core 30H, Interval 266.2-276.19m (CSF-A)

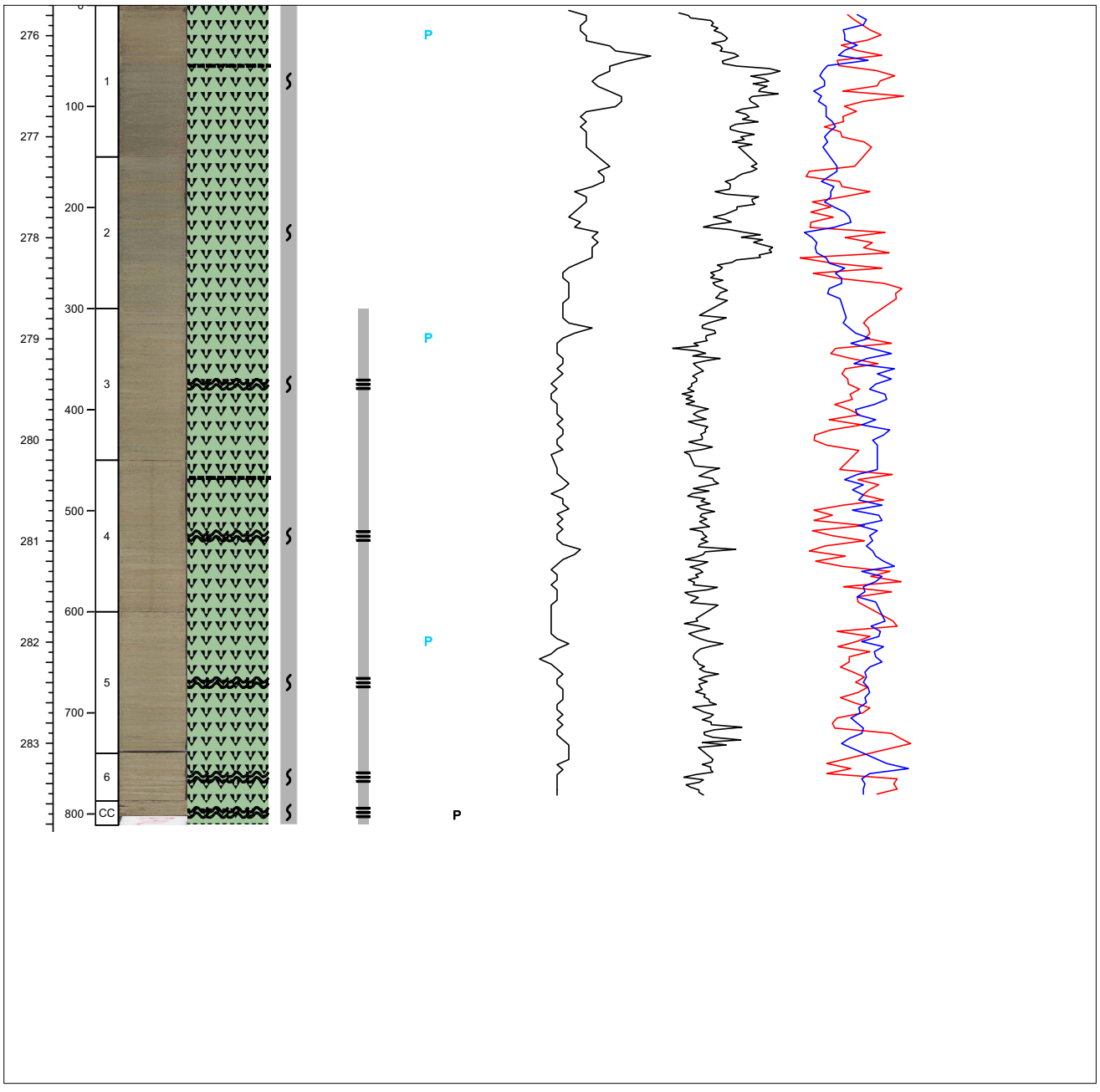
Major lithologies: Soft, olive gray to light olive gray diatom ooze; minor ash patches and thin layers; undulated, slightly bioturbated olive to light olive thick lamination to thin bedding throughout most of the core; slight bioturbation; no drilling disturbance



Core Photo

Hole 323-U1341B Core 31H, Interval 275.7-283.81m (CSF-A)

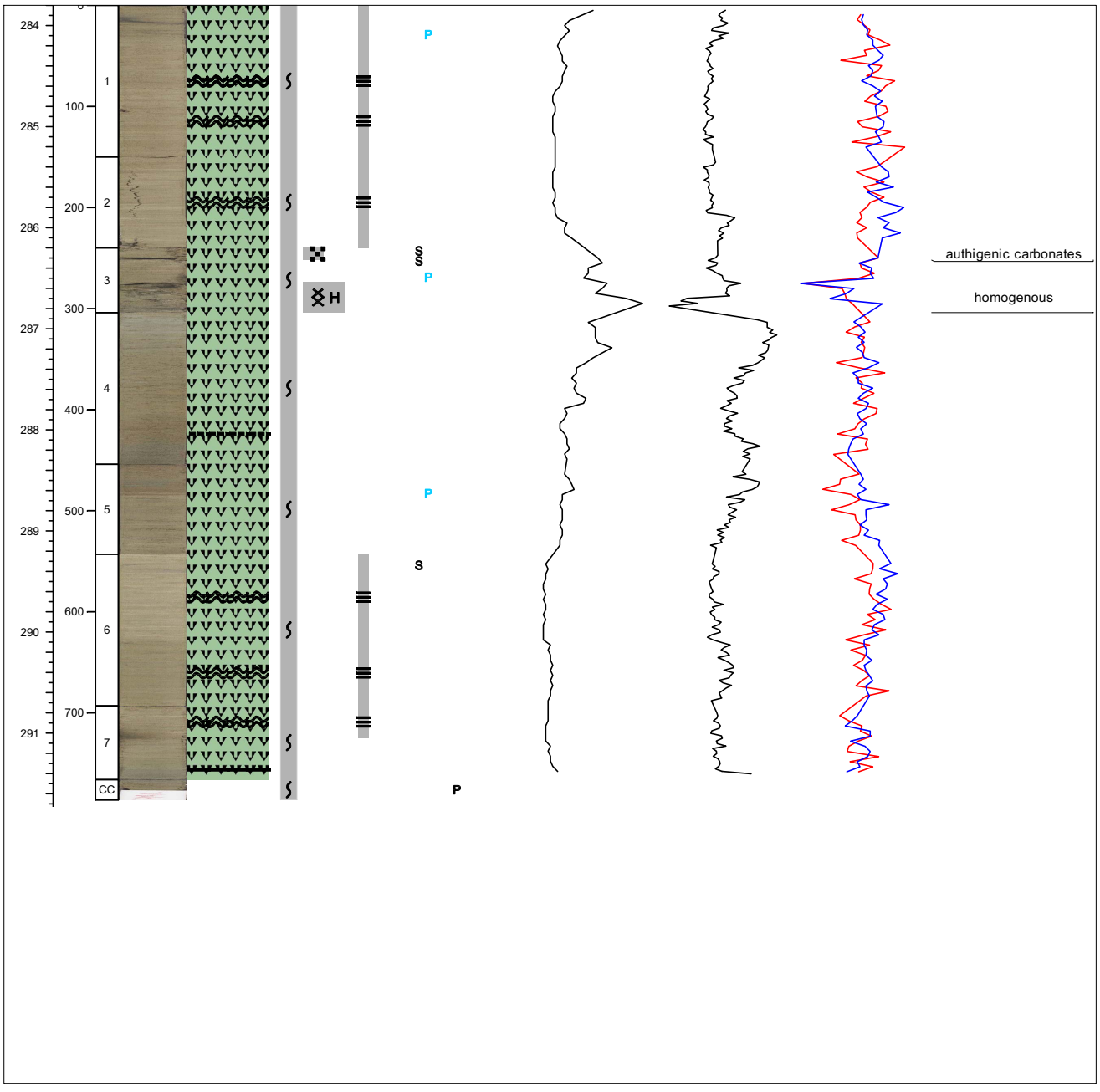
Major lithologies: Soft dark greenish gray to olive to light olive diatom ooze; undulated, slightly bioturbated thick lamination and thin bedding of different colors throughout most of the core; slight bioturbation; no drilling disturbance



Core Photo

Hole 323-U1341B Core 32H, Interval 283.8-291.66m (CSF-A)

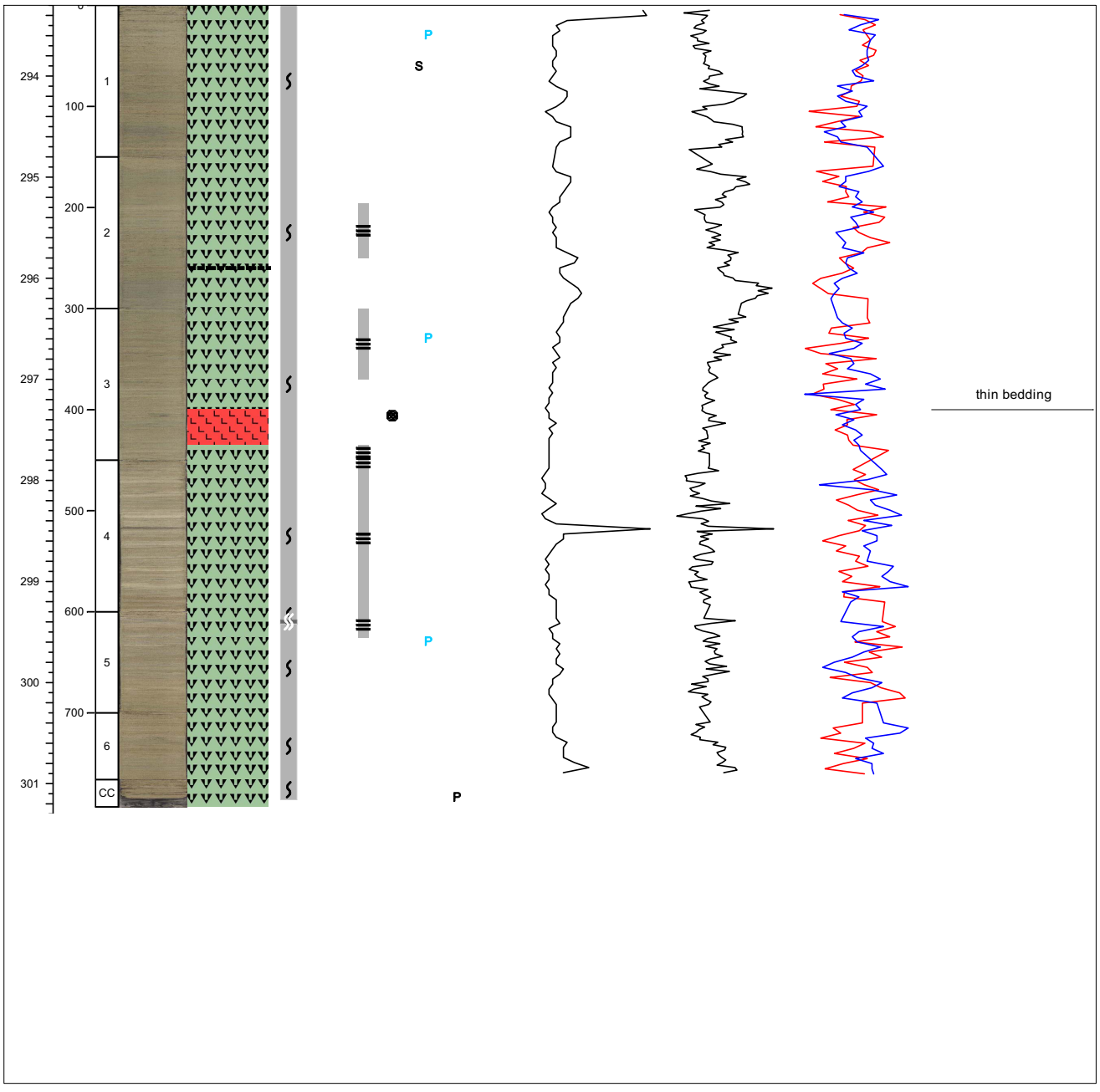
Main lithology: Diatom ooze. Alternation of color (10Y 4/1 and 5Y 5/2). Dolomite nodule at Sec.1 to Sec. 2 just below the pinkish ash (2.5YR 8/1).



Core Photo

Hole 323-U1341B Core 33H, Interval 293.3-301.23m (CSF-A)

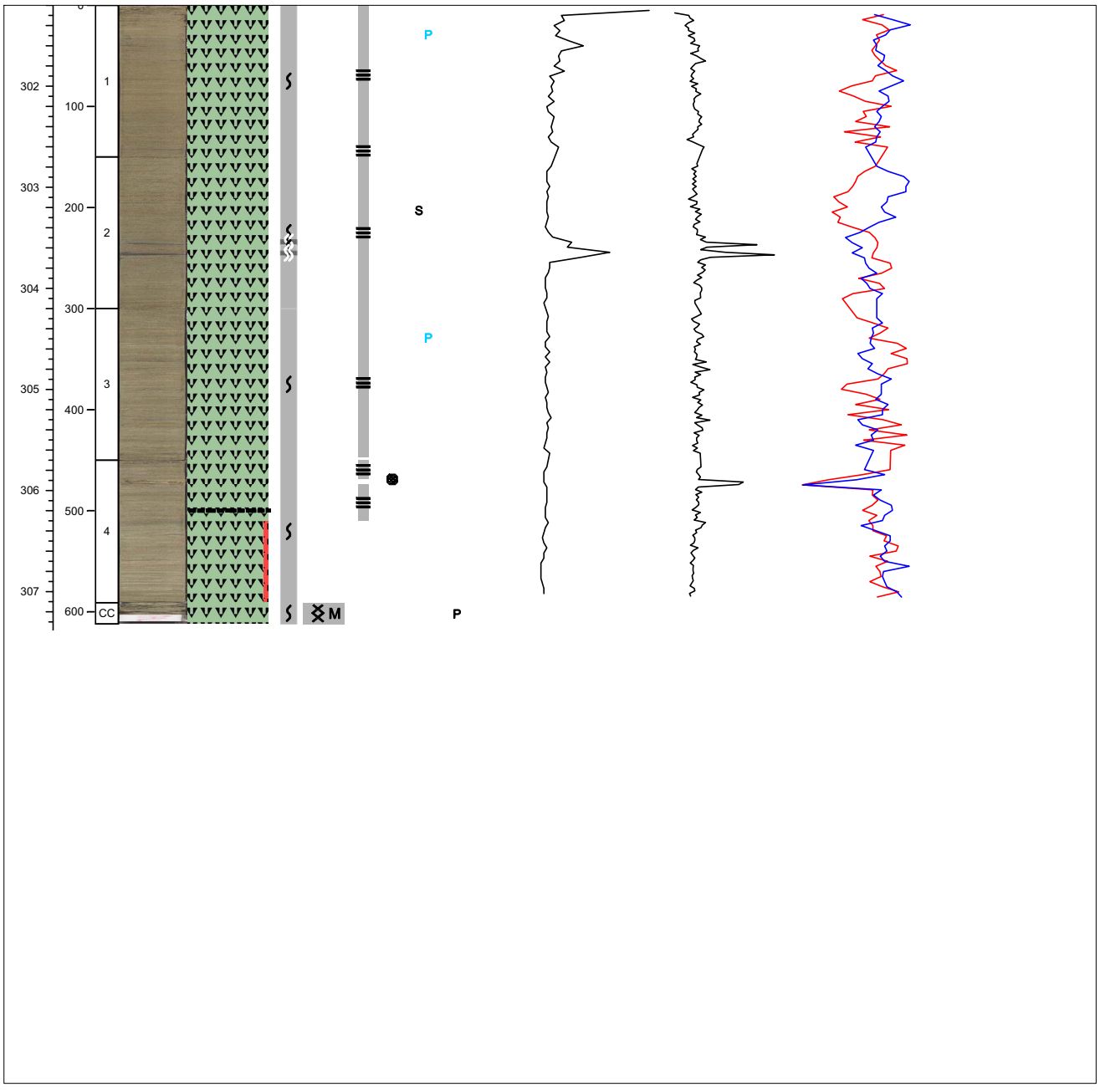
Main lithology: Green to grey diatom ooze; minor lithology is diatom silt. Ash in Sec. 4 and 6. Slight biotubation. There is an angular black pebble in section 3.



Core Photo

Hole 323-U1341B Core 34H, Interval 301.2-307.32m (CSF-A)

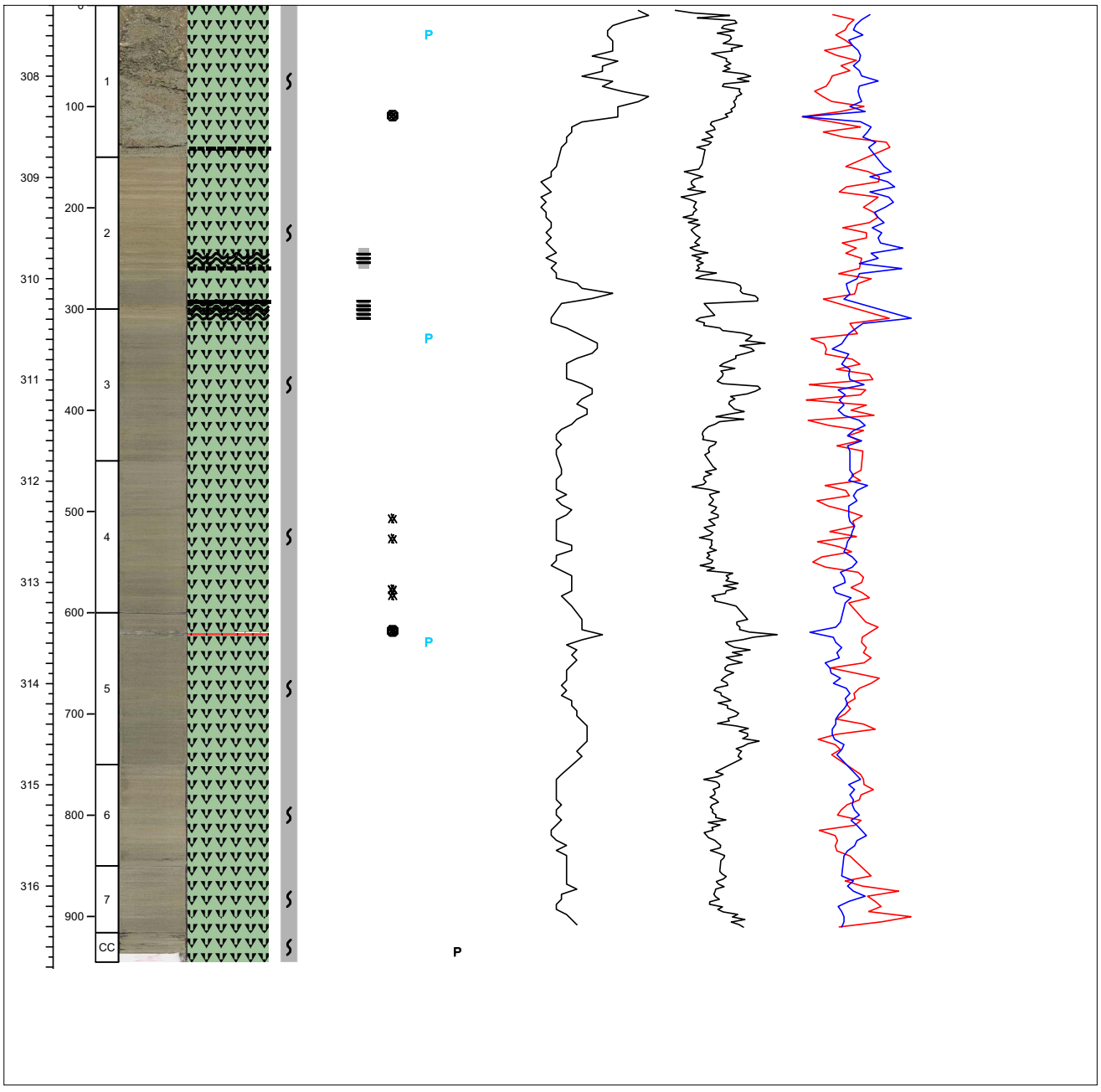
Main lithology: Diatom ooze. Alteration colors (5Y 4/2 and 10Y 4/1). Fainted thin beds appeared at Sections 2 and 4. Semi-lithified dolostone cobble at Section 4. Redish green (2.5Y 5/6) layer appeared at Section 2.



Core Photo

Hole 323-U1341B Core 35H, Interval 307.3-316.75m (CSF-A)

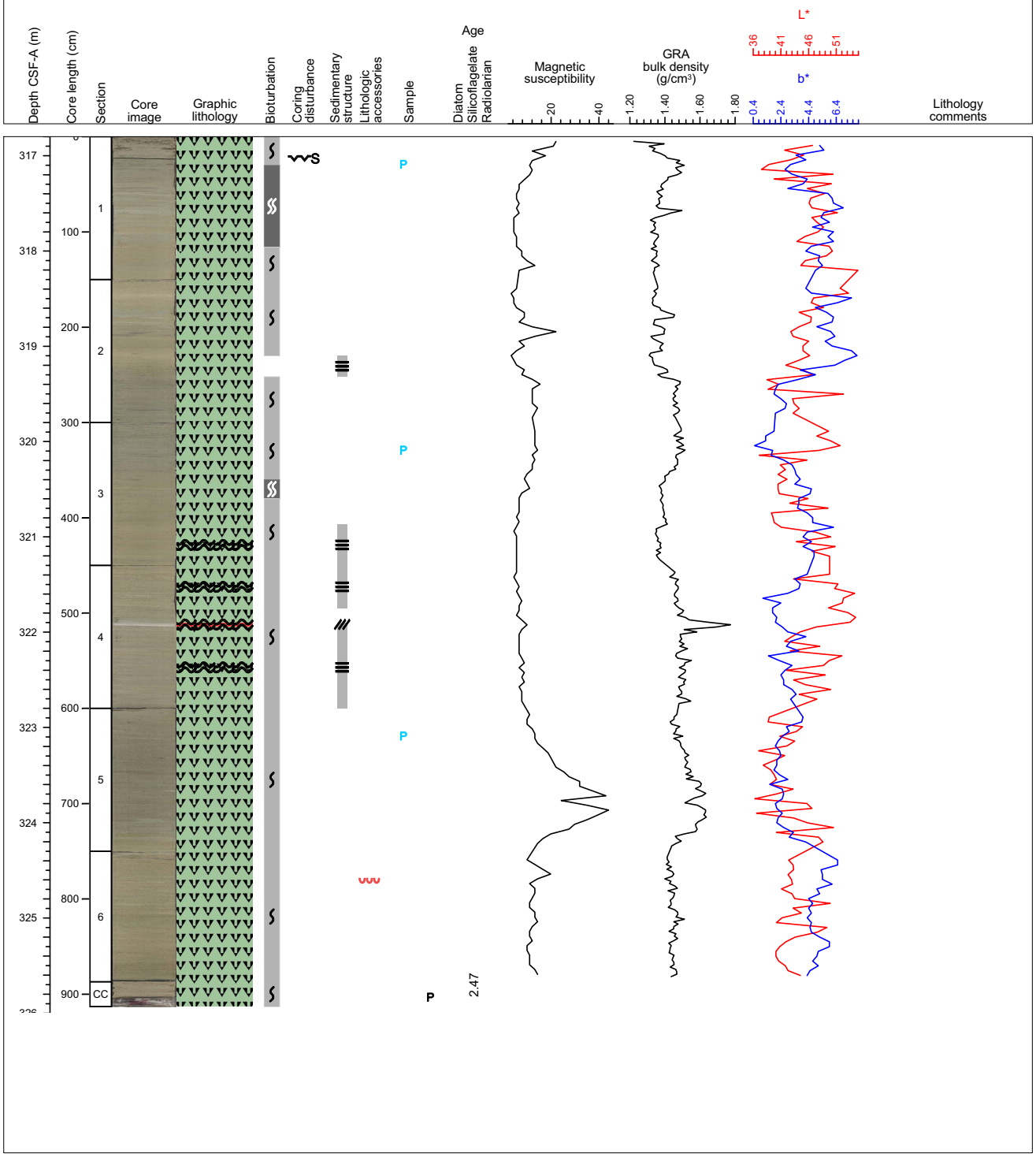
Main lithology: Diatom ooze. Alteration of ligh olive (5Y 4/2) and dark gray (10Y 4/1). Thin bed to thick laminae appeared in the light olive sediments. Slight bioturbation throughout the core.



Core Photo

Hole 323-U1341B Core 36H, Interval 316.8-325.93m (CSF-A)

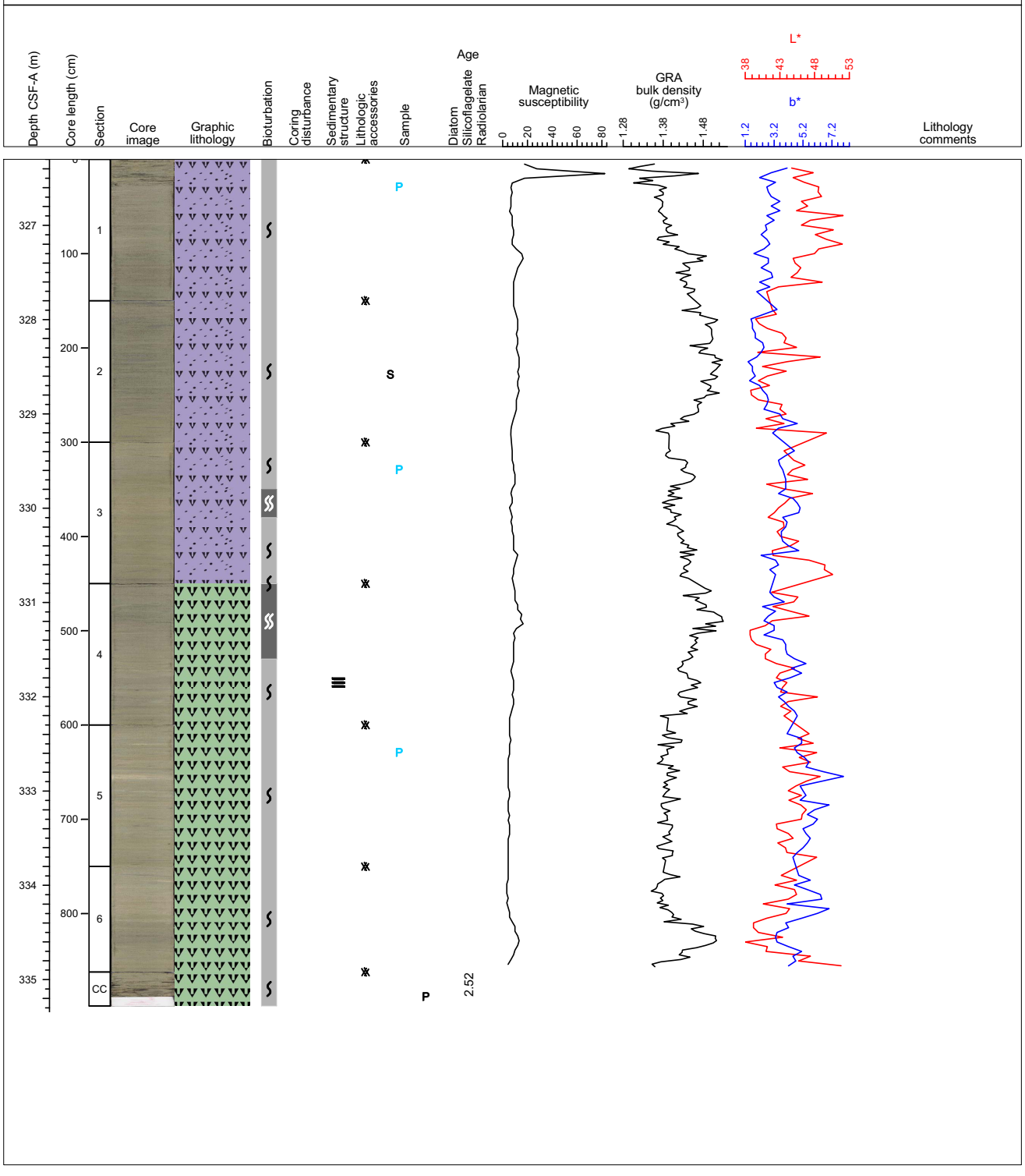
Main lithology: Diatom ooze, thickly laminated layers are found in Section 2, thin bedding structure are found at Sections 3 and 4. Most of the core is slightly bioturbated except for Section 1 and 2 with moderate bioturbation. Tilted bed were appeared at Section 4. Ash were preesent as ashy patches throughout the core.



Core Photo

Hole 323-U1341B Core 37H, Interval 326.3-335.28m (CSF-A)

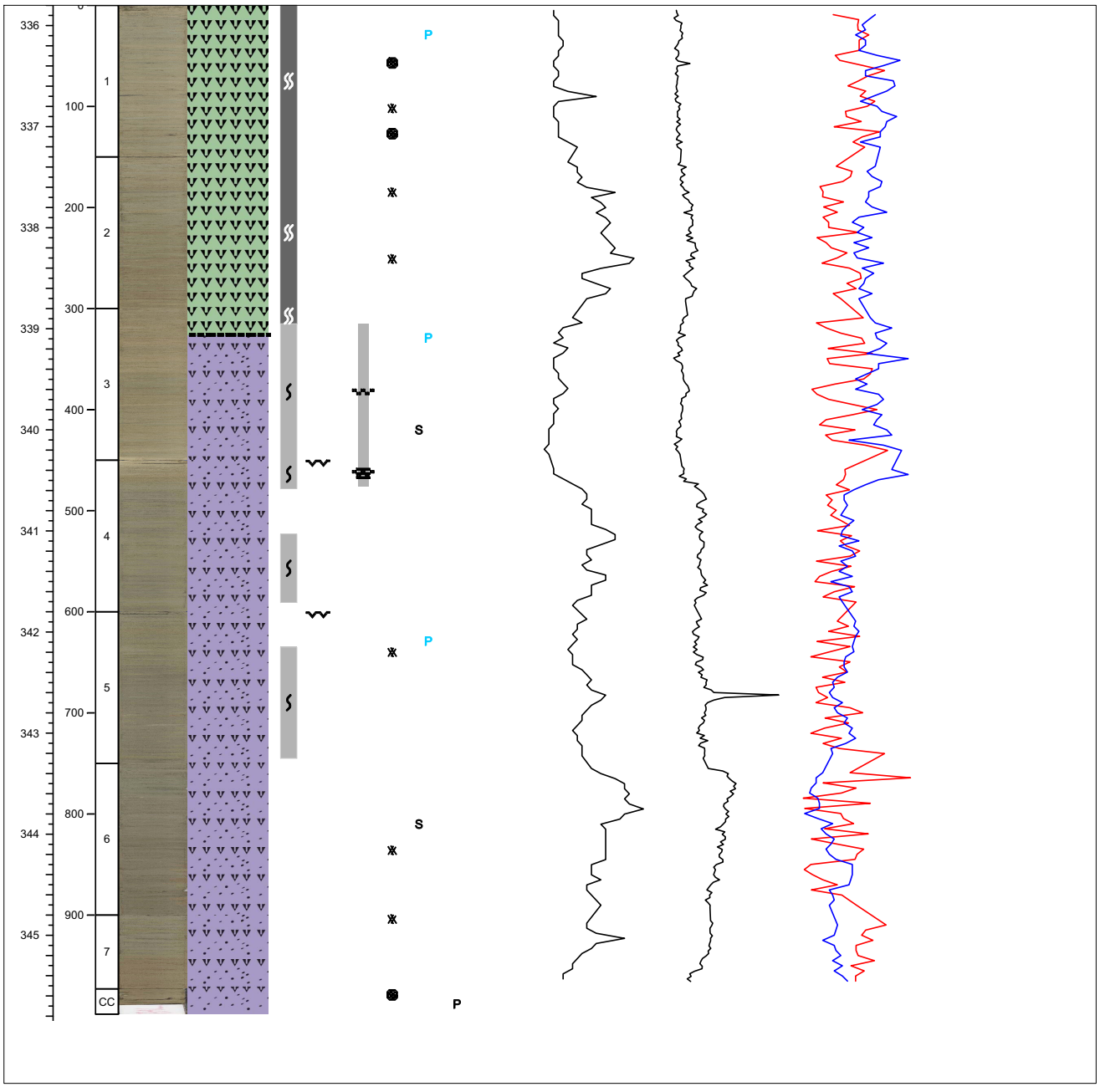
Main litholog: Diatom ooze. Secondary lithology: Diatom silt. The upper part of the core (Section 1 through 3) were consists of diatom silt with the color of dark gray (10Y 4/1). Slight bioturbation throughout the core except for Sec. 3 and 4 with moderate bioturbated. Thin bed structure was occurred at Section 4. White sponge spicule spots were visible only a Sec. 2. The slight drilling disturbance (slurry and crack) at the top 10 cm of the core.



Core Photo

Hole 323-U1341B Core 38H, Interval 335.8-345.78m (CSF-A)

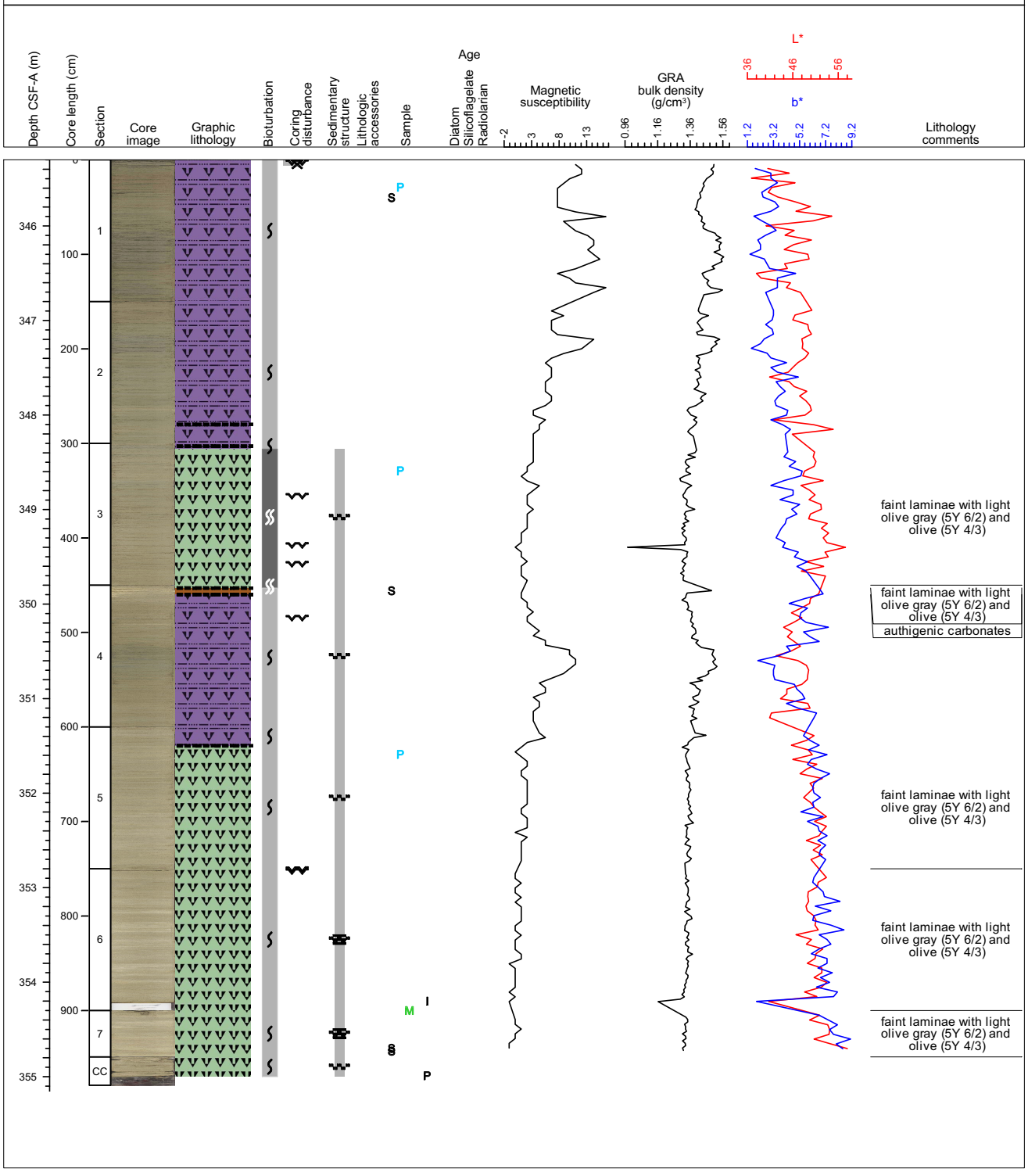
Major lithologies: olive gray diatom ooze grading into dark greenish gray diatom silt. Volcanic ash is present only as mottles or thin bioturbated laminations. Faint laminations are seen throughout the diatom ooze. The whole core is slightly to moderately bioturbated. Many small sponge spicule aggregates are found especially in Section 5. Disturbance is minimal.



Core Photo

Hole 323-U1341B Core 39H, Interval 345.3-355.09m (CSF-A)

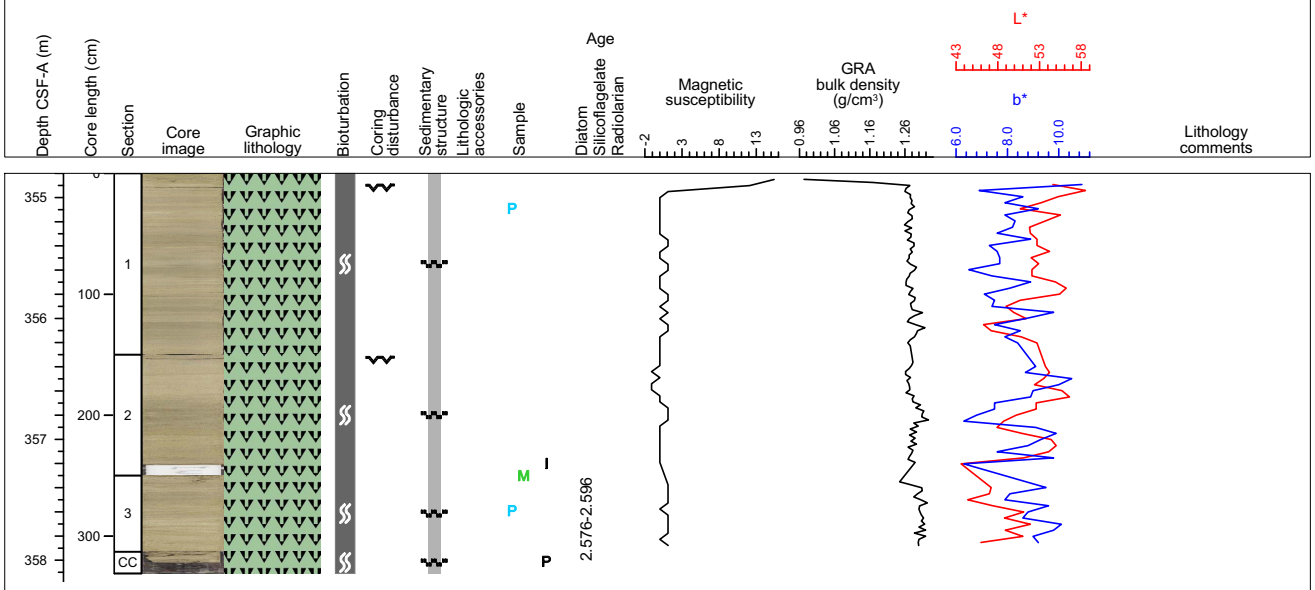
Main lithology is diatom ooze (olive 5Y 5/3). Faint laminae (light olive gray 5Y 6/2 to olive 5Y 4/3) was recognized in this lithology. Light colored layer is diatom clay. Dark colored layer is diatom ooze.Secondary lithology is diatom silty clay (dark greenish gray 10Y 4/1). The secondary lithology is occured in Section 2 and3. In Section 4 (3-10cm) dolomitized diatom-rich clay occured. Bioturbation is slight to moderate.



Core Photo

Hole 323-U1341B Core 40H, Interval 354.8-358.11m (CSF-A)

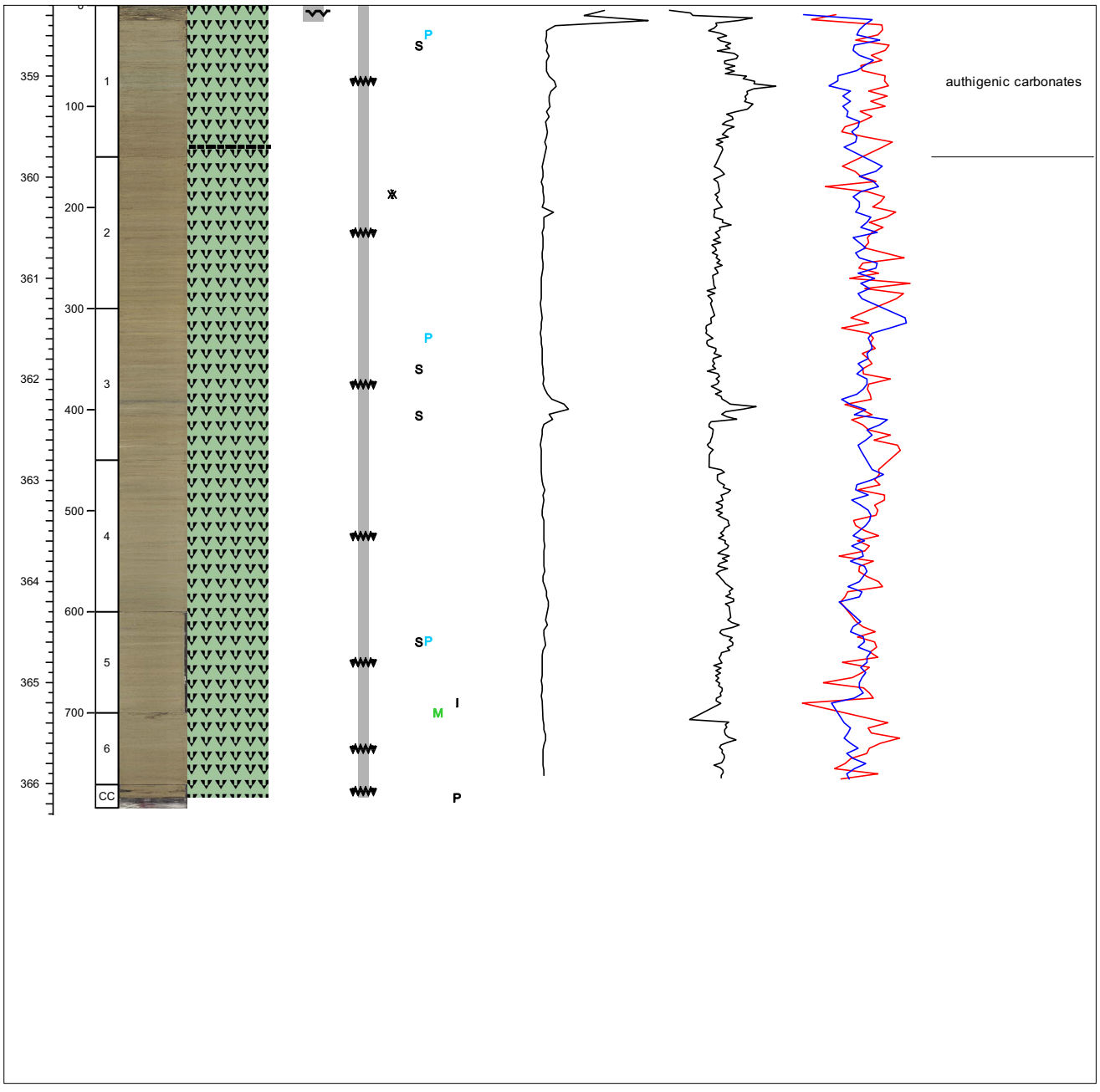
Major lithology: Alternating thick faint laminations of olive diatom ooze and pale olive diatom clay. No volcanic ash or clasts are visible. Bioturbation is moderate throughout and drilling disturbances are minor.



Core Photo

Hole 323-U1341B Core 41H, Interval 358.3-366.24m (CSF-A)

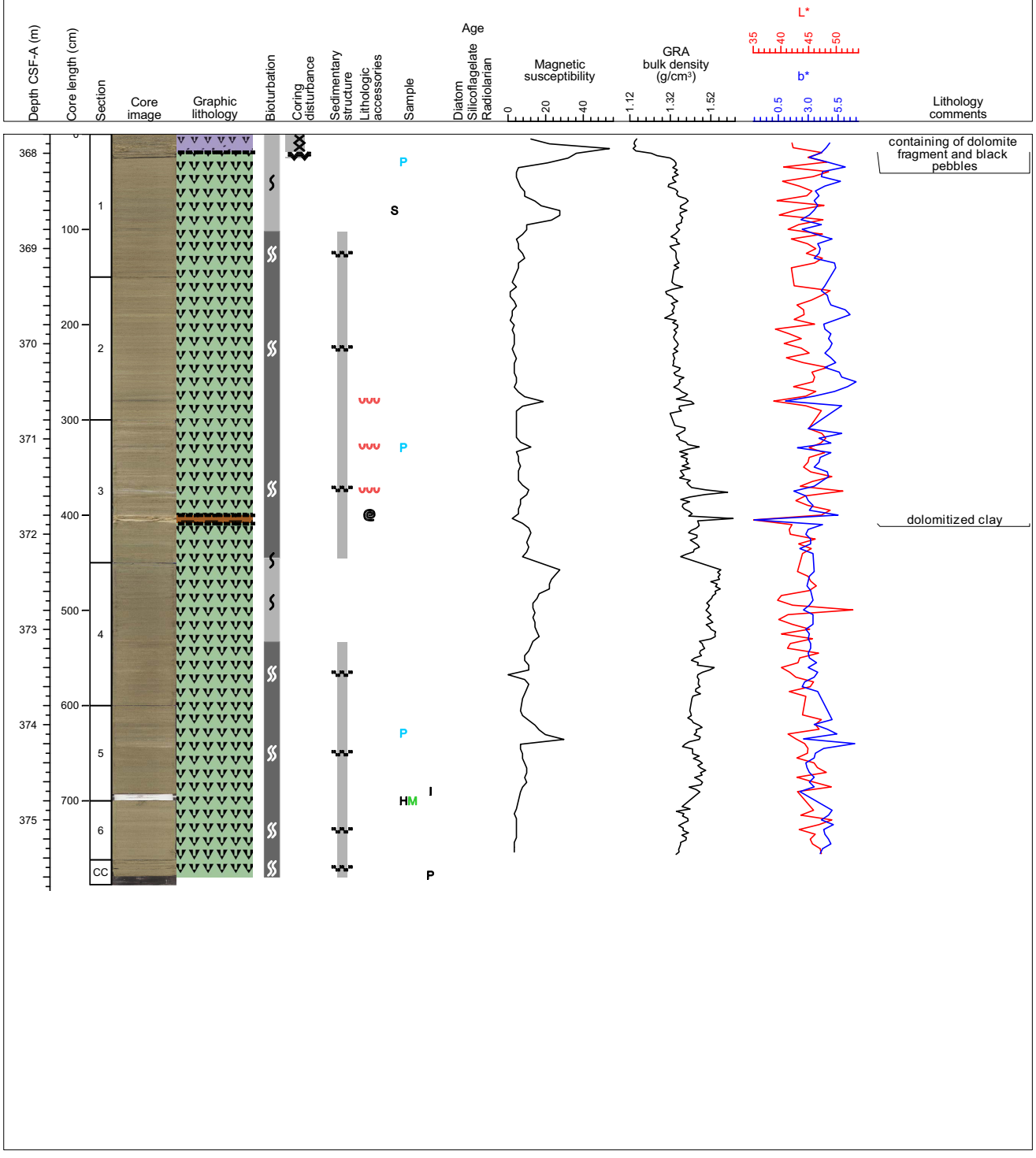
The only lithology present in this core is olive gray, fainlty bioturbated and mottled diatom ooze. The only exception is Section 1 which is a dark greenish gray diatom ooze. Three dark mottles containing black fine ash are visible in Sections 1 and 3.



Core Photo

Hole 323-U1341B Core 42H, Interval 367.8-375.68m (CSF-A)

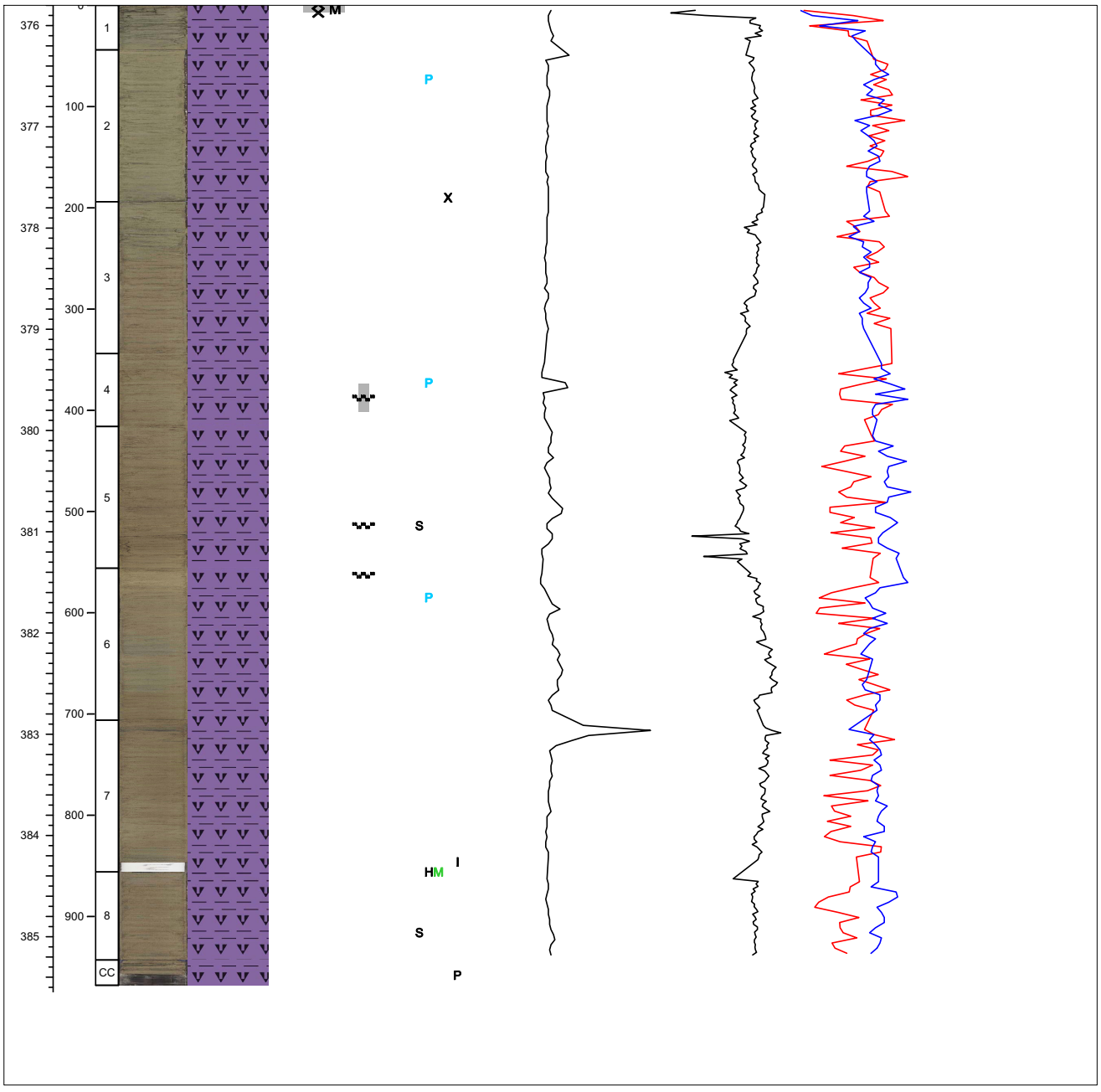
Major lithology is clay-rich diatom ooze. Faint laminae with olive gray (5Y 4/2); light olive gray (5Y 6/2) and olive (5Y 5/3) etc. was recognized through the core without the top of Section 1 and Section 4. Light colored layer is diatom clay. The top of Section 1 (0-9cm) was soupy and contains several dolmite fragments and pebbles. It is probably drilling disturbance.



Core Photo

Hole 323-U1341B Core 43H, Interval 375.8-385.48m (CSF-A)

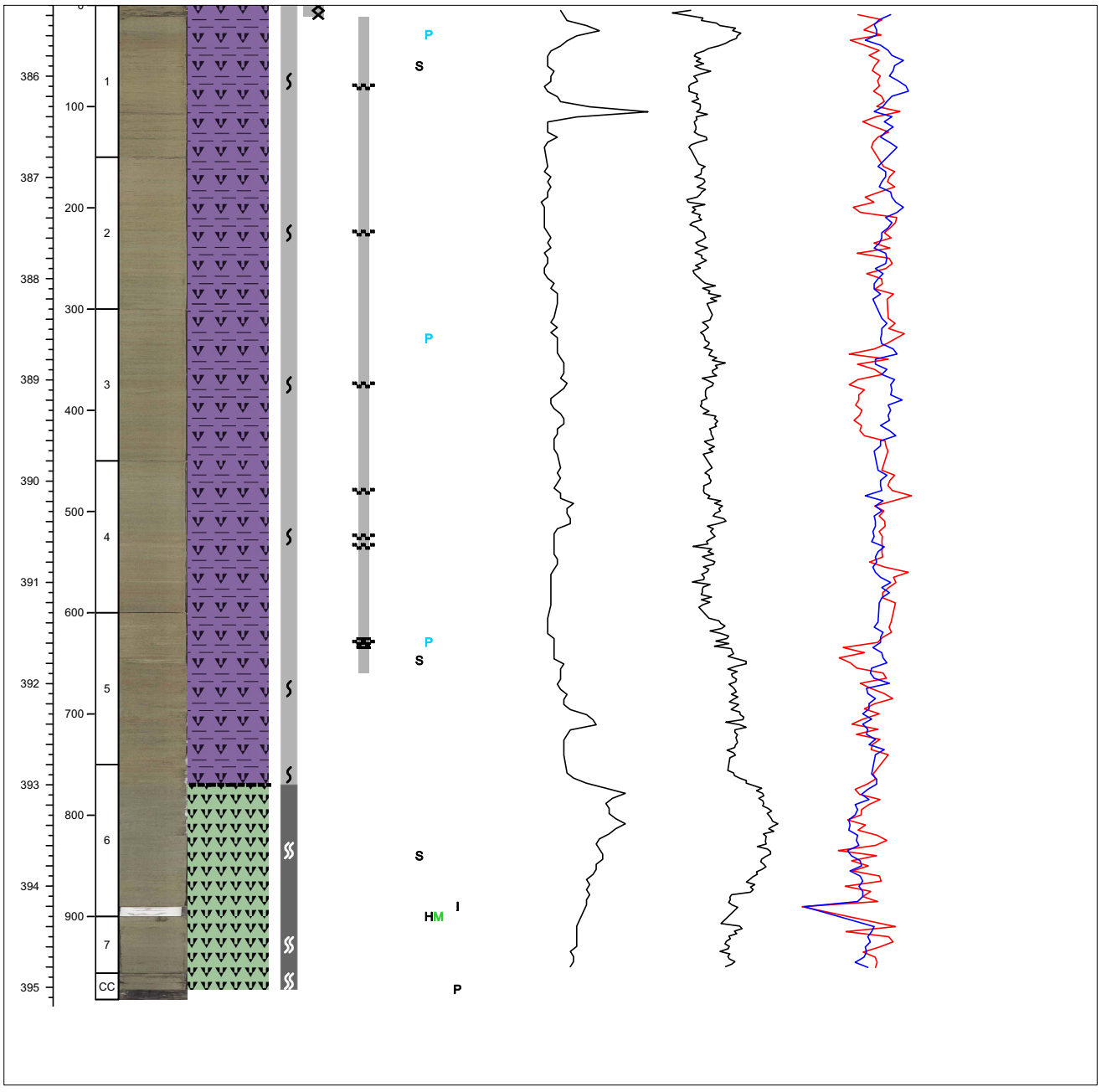
The only lithology present in this core olive gray diatom clay. A few, thin white laminae composed of monospecific pennate diatoms are visible in Sections 4 and 6. A black discoidal slate pebble occurs at the very top of Section 5.



Core Photo

Hole 323-U1341B Core 44H, Interval 385.3-395.12m (CSF-A)

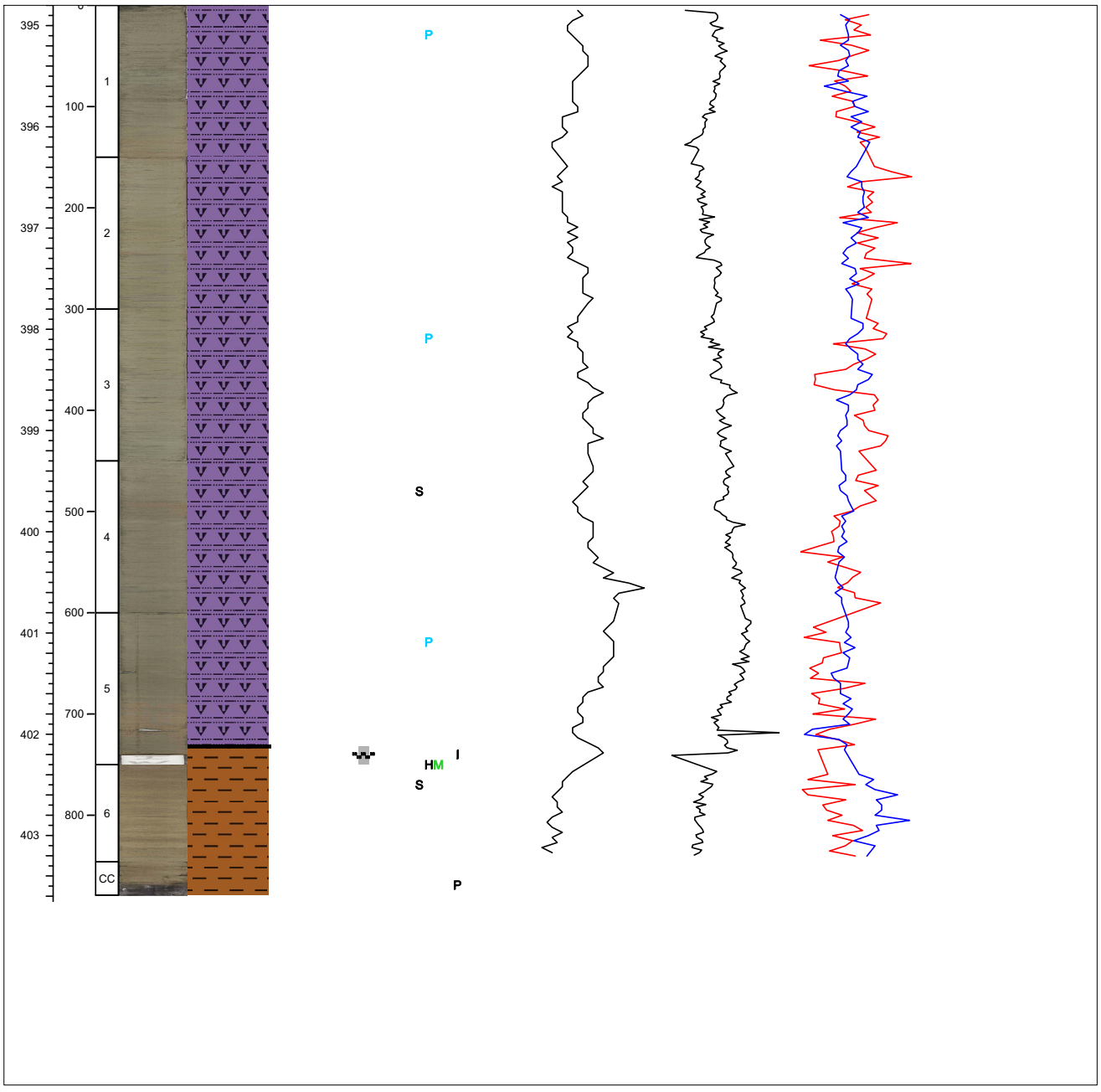
Major lithology is diatom clay (olive gray 5Y 4/2 to dark greenish gray 10Y 4 /1). Faint laminae was recognized from Section 1 to 6. The color of laminated layer is relatively dark compared to those of shallower core (olive to light olilve lamination). Bioturbation is slight to moderate.



Core Photo

Hole 323-U1341B Core 45H, Interval 394.8-403.59m (CSF-A)

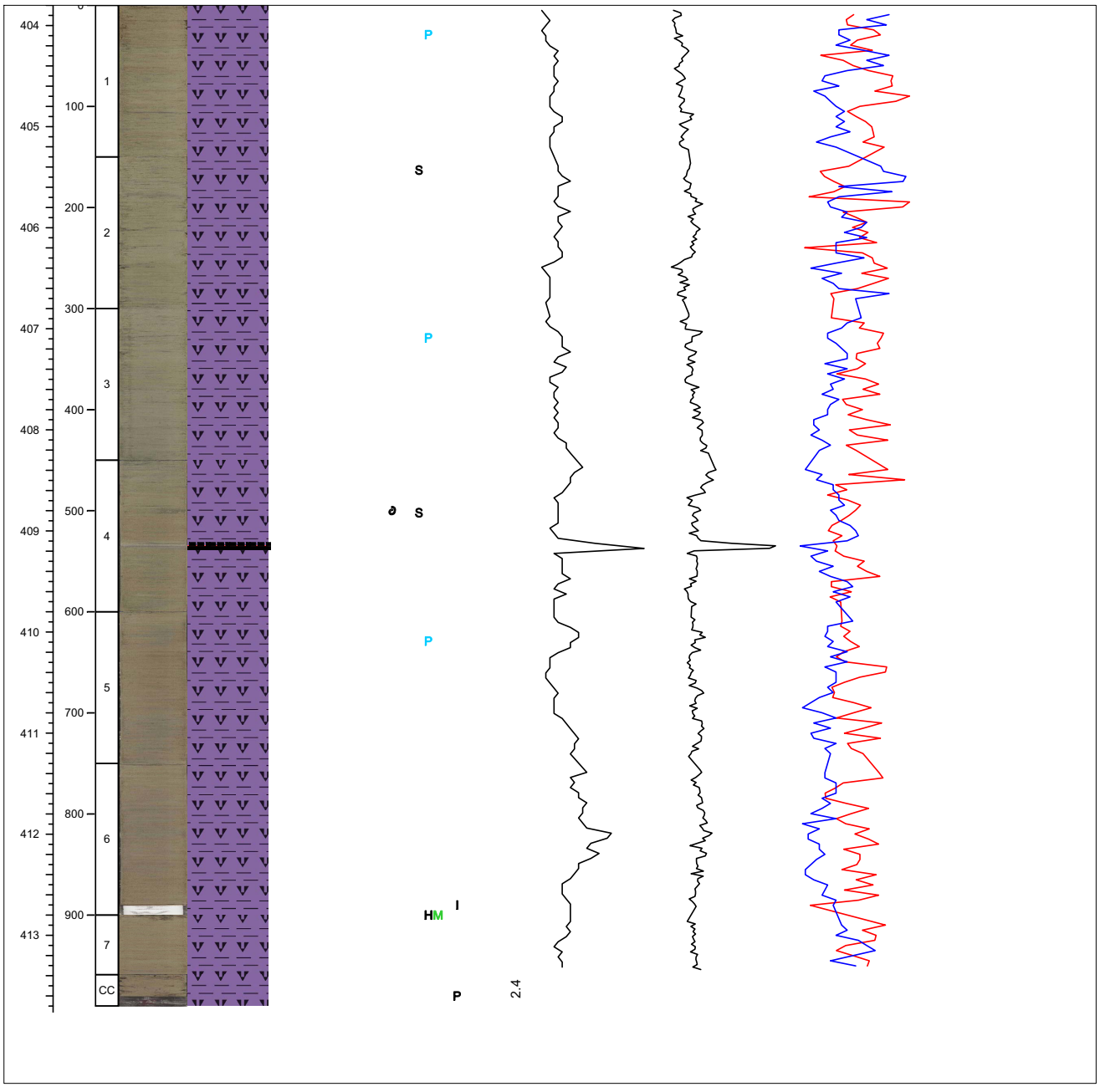
The main lithology is very dark gray diatom silty clay. The secondary lithology, faintly laminated olive gray diatom-rich clay is present only in sections 6 and CC. Two prominent pebble-size rounded and subangular clasts are present in section 5 at 60 and 116 cm, respectively.



Core Photo

Hole 323-U1341B Core 46H, Interval 403.8-413.7m (CSF-A)

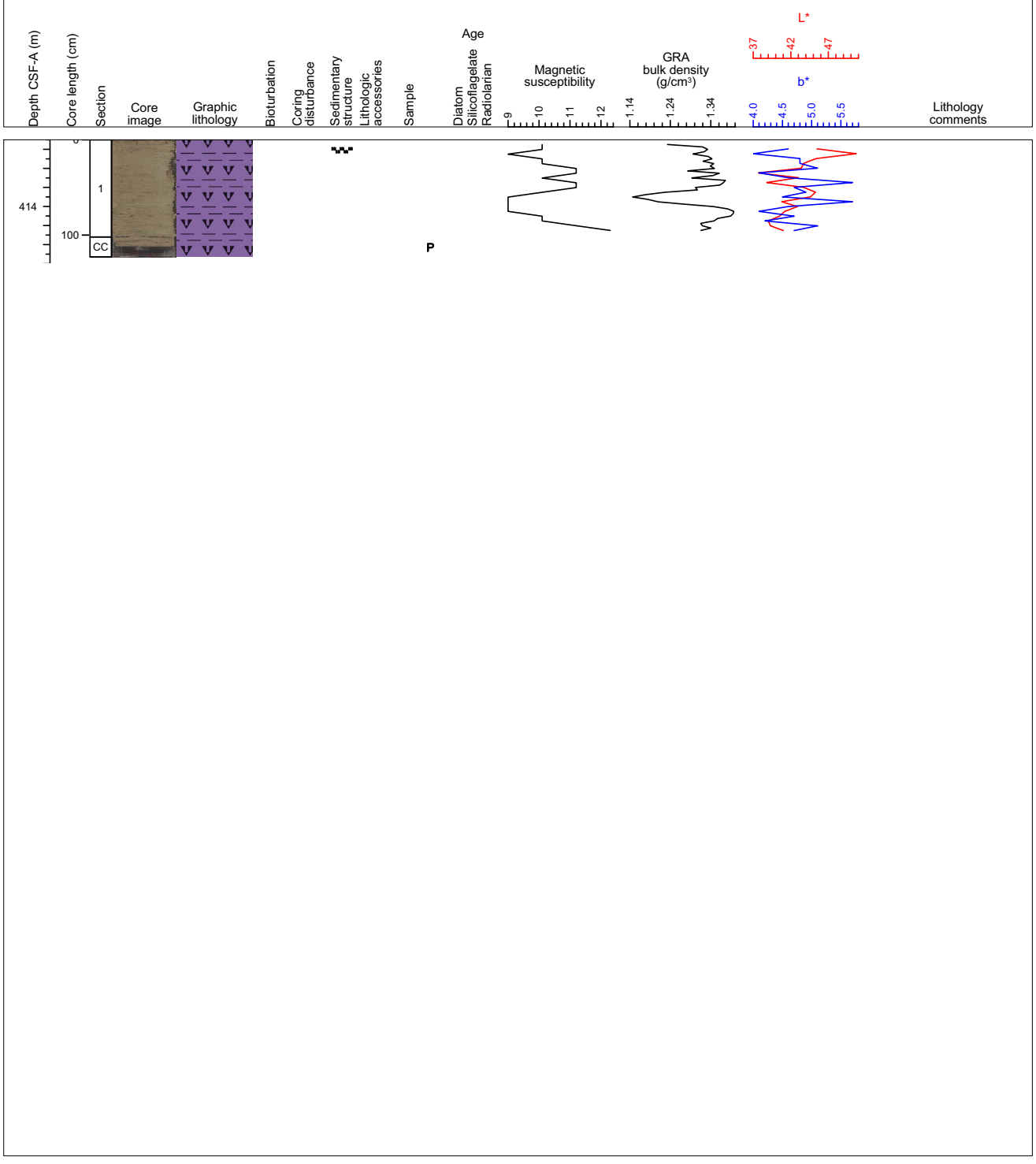
The main lithology present in this core is dark greenish gray diatom clay. A black fine ash layers occurs in Section 4 between 84 and 87 cm, and calcite shell fragments in Section 4 between 50 and 53 cm.



Core Photo

Hole 323-U1341B Core 47H, Interval 413.3-414.53m (CSF-A)

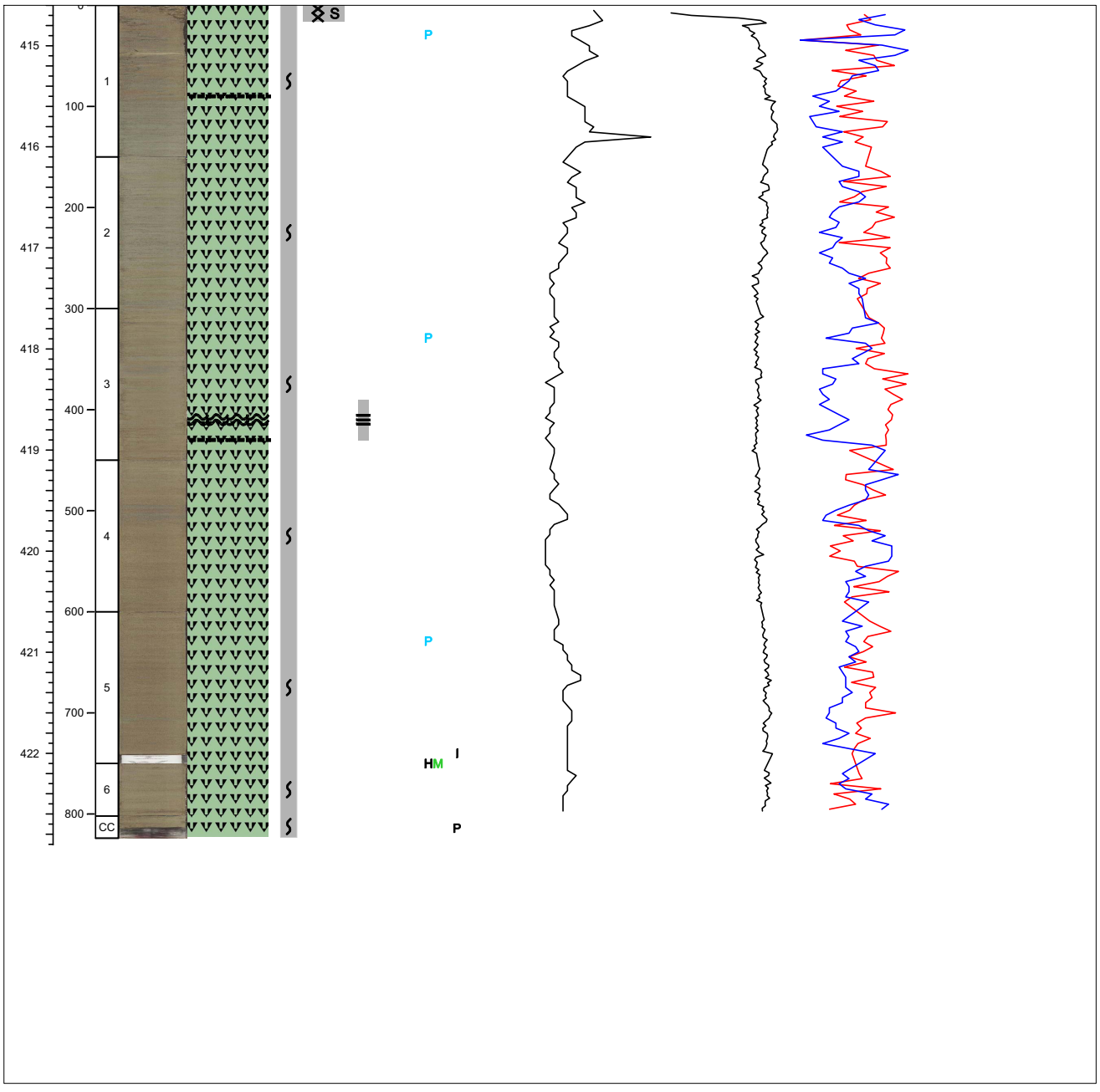
Major lithology: Dark greenish gray diatom clay. A single light gray lamination composed of a pennate diatom mat is present. Drilling disturbance is slight throughout as evidenced by a small void along the edge of the core liner and slightly cracked sediment.



Core Photo

Hole 323-U1341B Core 48H, Interval 414.6-422.84m (CSF-A)

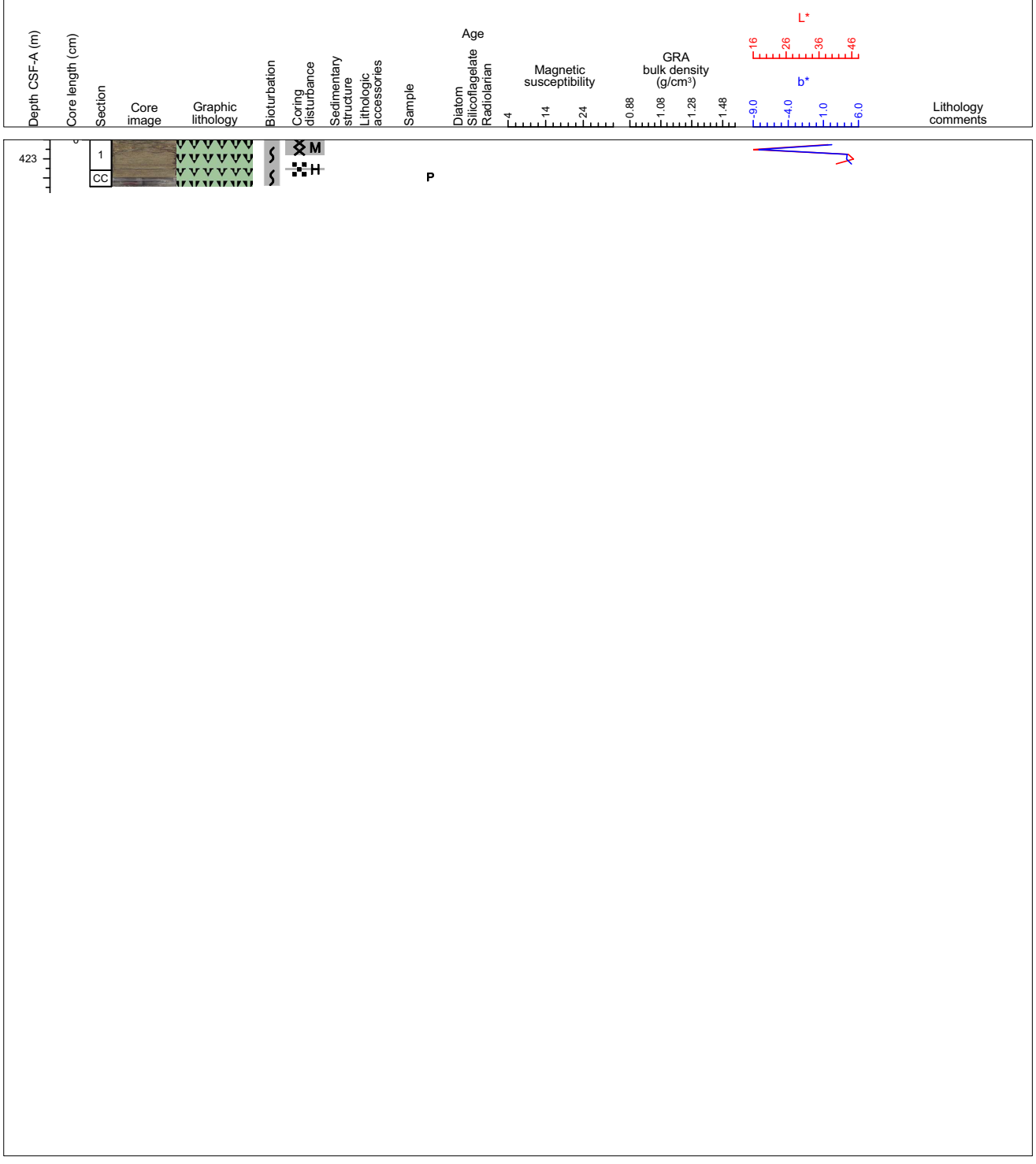
Major lithologies: Stiff dark greenish gray to olive gray diatom ooze; undulated thin bedding, probably disturbed by bioturbation, in Sections 1 to 3; slight bioturbation; pieces of carbonate gravel at top of section 1, drilling disturbance



Core Photo

Hole 323-U1341B Core 49H, Interval 422.8-423.29m (CSF-A)

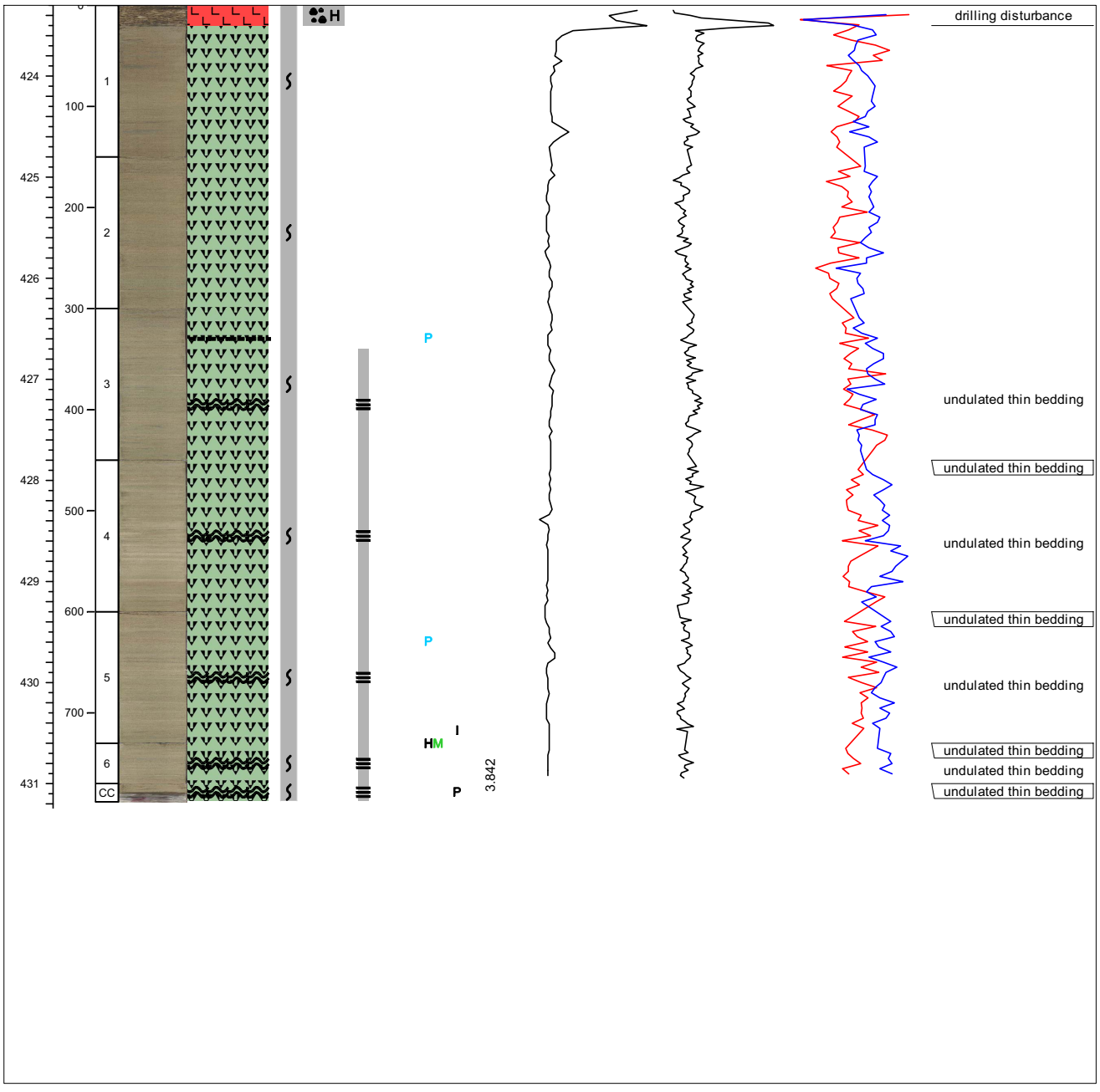
Major lithologies: Dark olive diatom ooze; slight bioturbation; only one section recovered; moderate to heavy drilling disturbance by pieces of carbonate and basalt gravel at the top of Section 1, void at base of Section 1



Core Photo

Hole 323-U1341B Core 50H, Interval 423.3-431.18m (CSF-A)

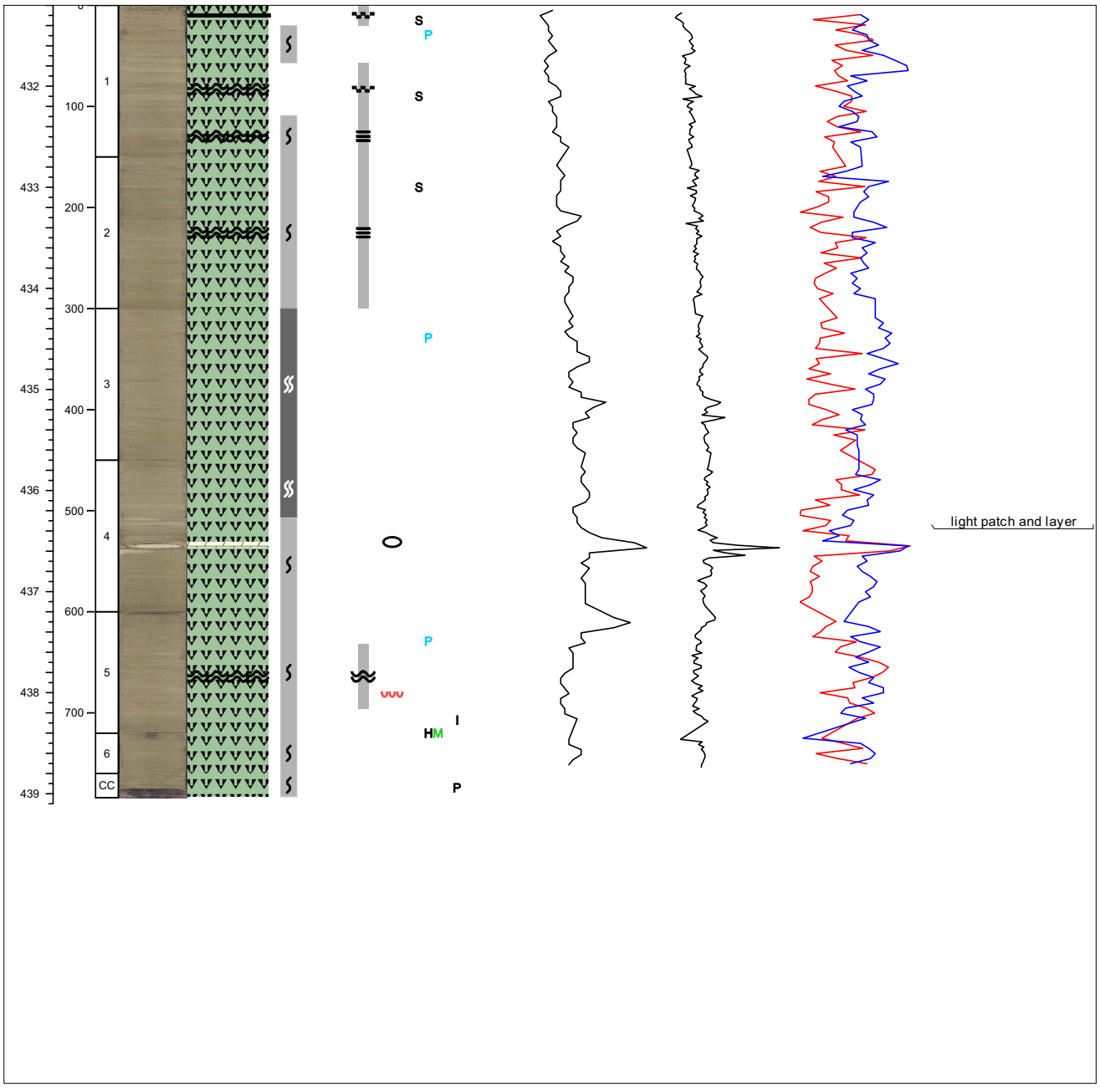
Major lithologies: Stiff olive gray diatom ooze; undulated thin bedding in Sections 3 to CC of lighter and darker colors, probably disturbed by bioturbation; slight bioturbation; carbonate and basalt gravel at top of Section 1, fallen into the drill hole, heavy drilling disturbance



Core Photo

Hole 323-U1341B Core 51H, Interval 431.2-439.04m (CSF-A)

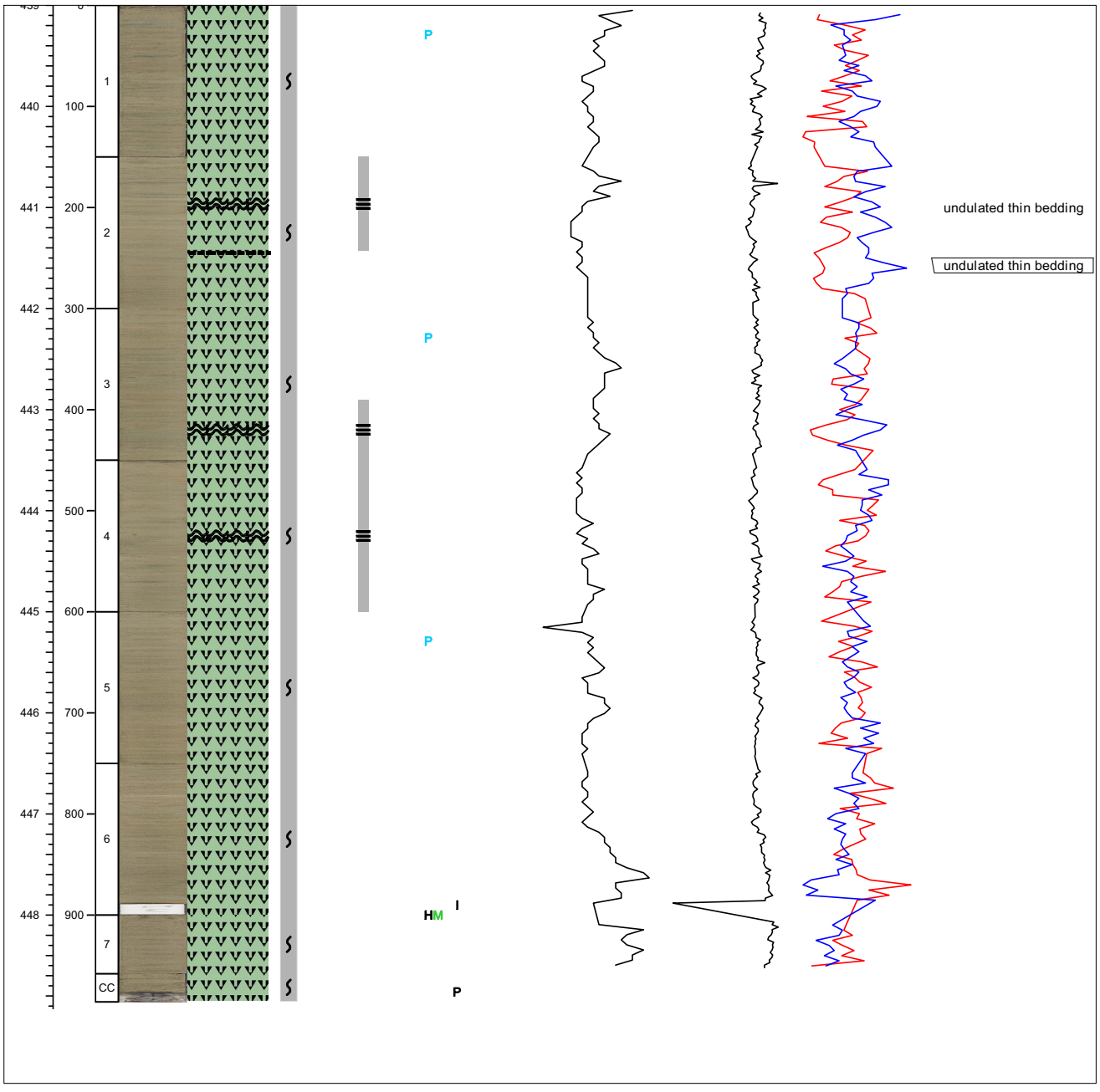
Major lithologies: Stiff olive gray to light olive gray diatom ooze; hard light gray authigenic carbonate layer in Section 4; laminated intervals in Section 1 and 5; thin undulated bedding in Sections 1 and 2; absent to moderate bioturbation; no drilling disturbance



Core Photo

Hole 323-U1341B Core 52H, Interval 439.0-448.86m (CSF-A)

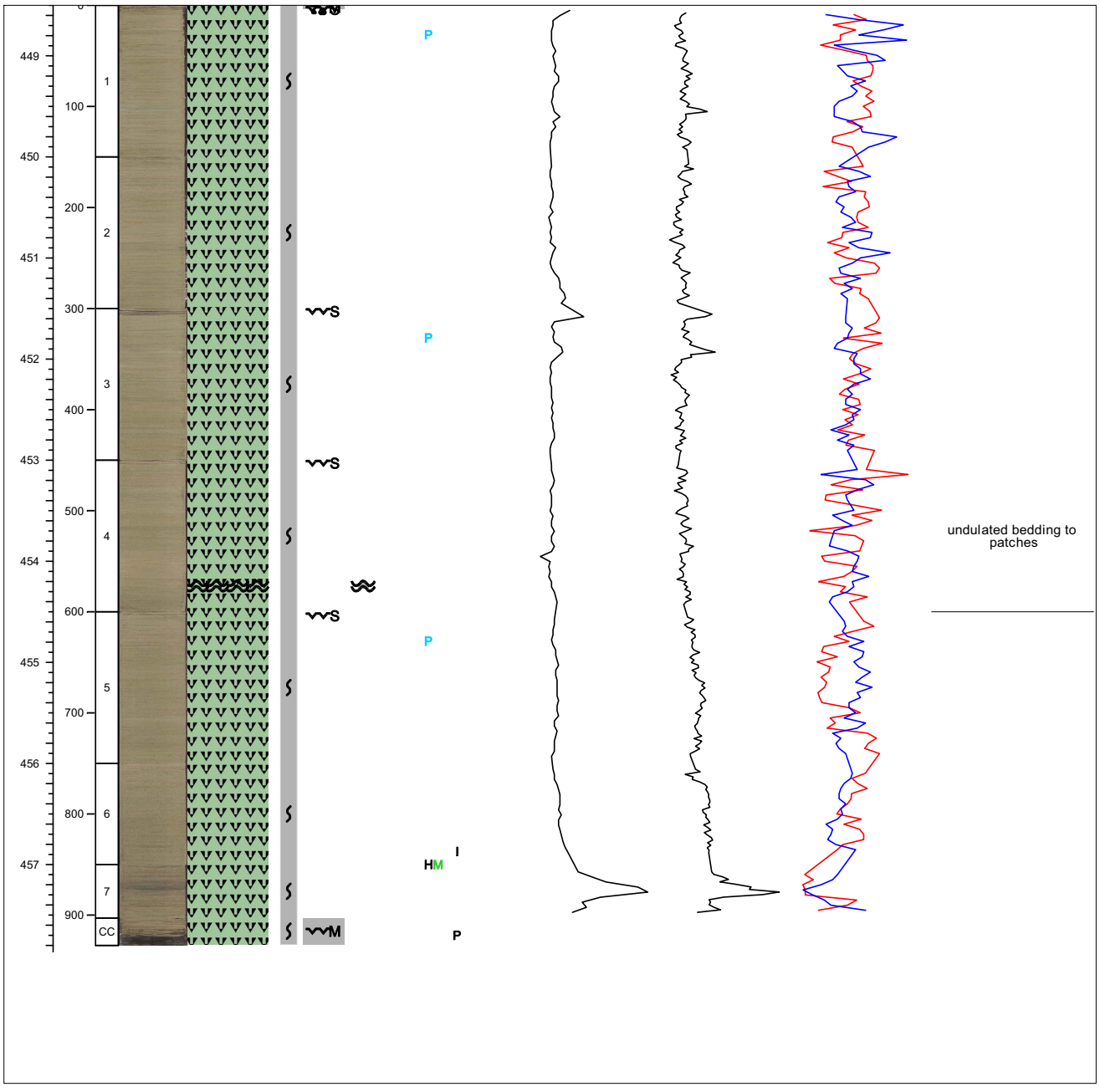
Major lithologies: Stiff dark olive to olive diatom ooze; undulated patchy thin bedding in Sections 2 to 4; few ash layers and patches; slight bioturbation with blueish mottles; no drilling disturbance apart from 2 cm carbonate gravel at top of Section 1.



Core Photo

Hole 323-U1341B Core 53H, Interval 448.5-457.8m (CSF-A)

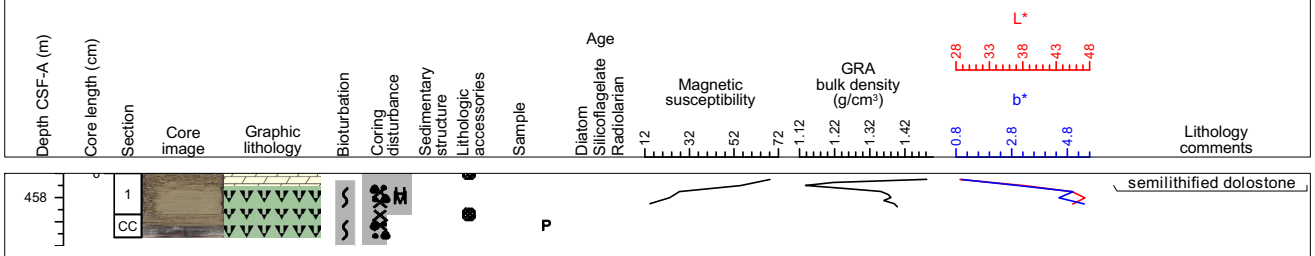
Major lithologies: Stiff olive gray to light olive gray diatom ooze; undulated beds to patches of different colors in Sections 1 to 4; occasional dark ash mottles and blueish burrows; slight bioturbation; fall in at top of Section 1; cracks at top of Sections 1 to 5.



Core Photo

Hole 323-U1341B Core 54H, Interval 457.8-458.33m (CSF-A)

Main lithology: Diatom ooze. Severe drilling disturbance (fall in) occur in most of the core. Top 6 cm of the core contains several clasts or rocks. Semilithified dolomite layer occur 6-10 cm in Section 1.

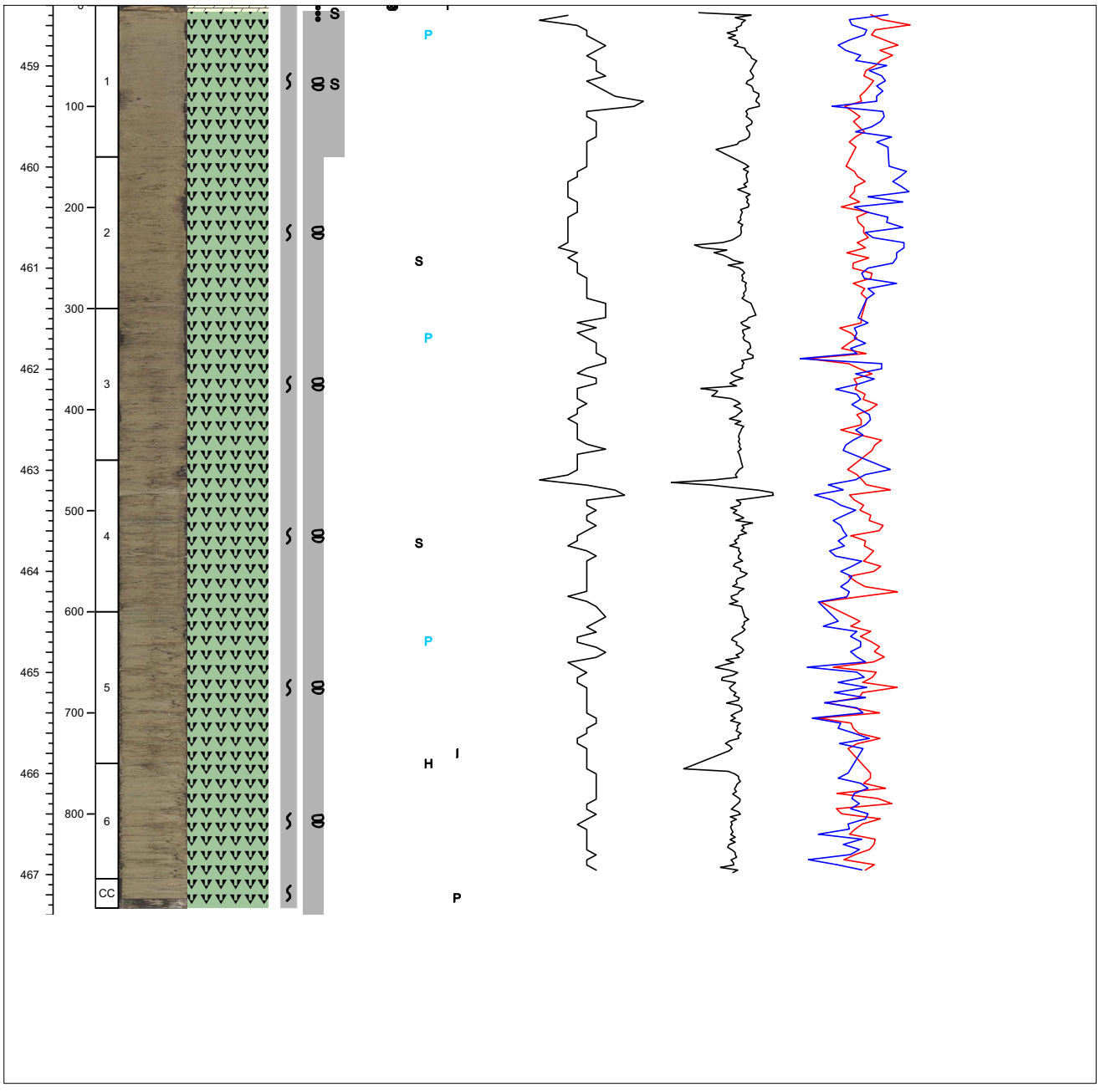


U1341B-55H ALL TO PALEO
U1341B-56H ALL TO PALEO

Core Photo

Hole 323-U1341B Core 57X, Interval 458.4-467.33m (CSF-A)

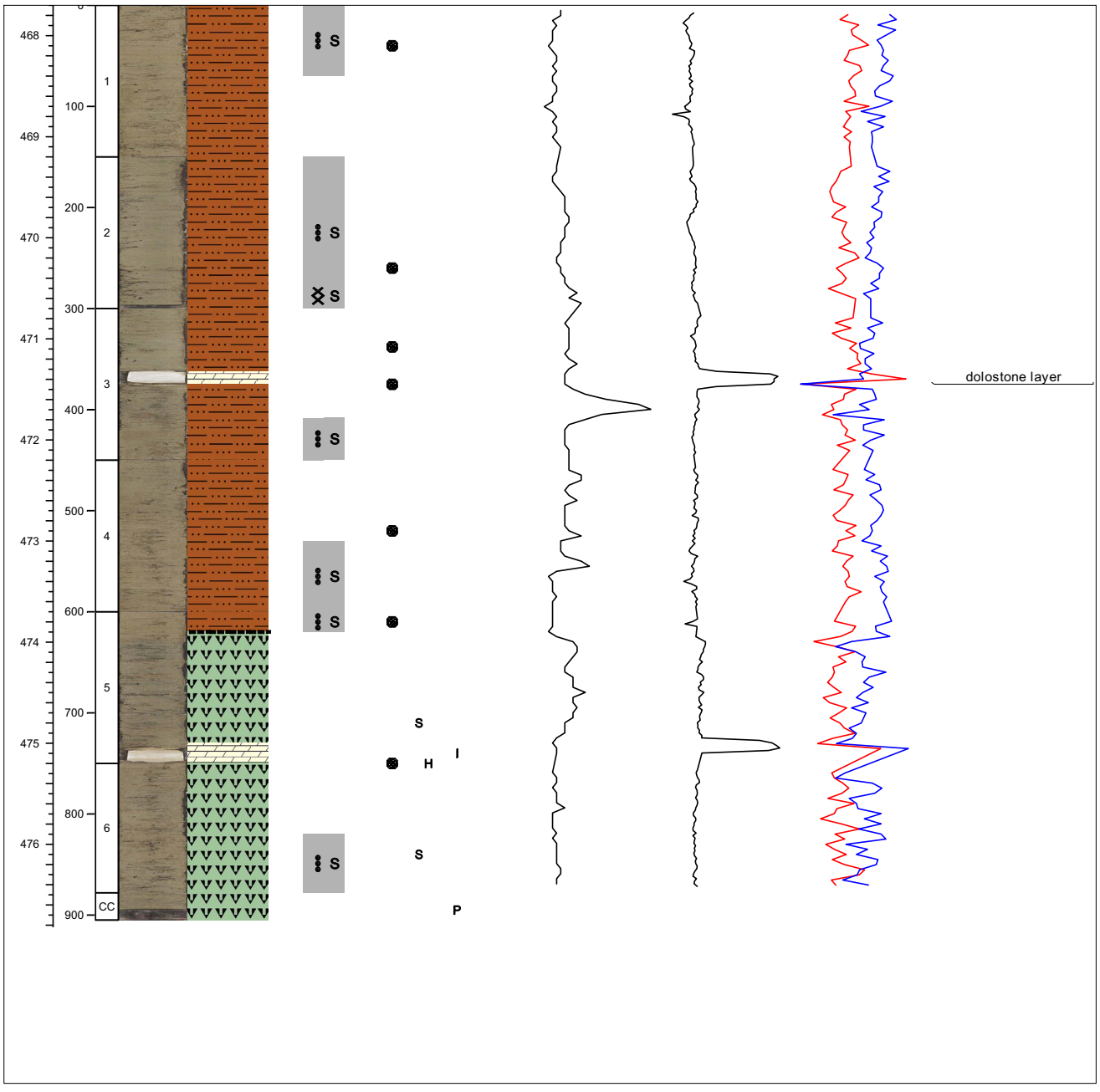
Main lithology: Diatom ooze. Ashy patches are found throughout Section 4 to CC. Whole of the core is slightly disturbed by drilling (biscuit).



Core Photo

Hole 323-U1341B Core 58X, Interval 467.7-476.75m (CSF-A)

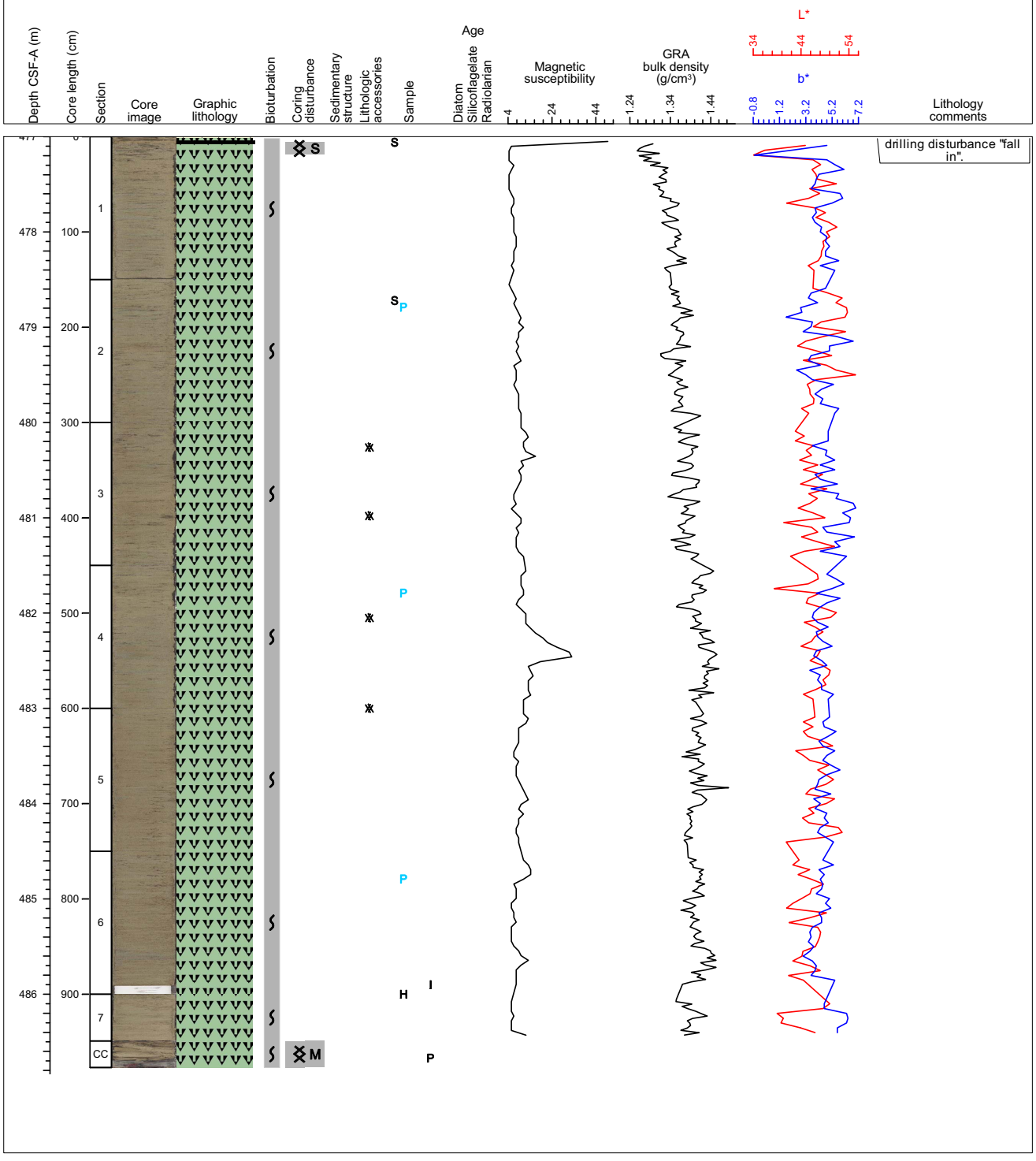
Main lithology: Diatom rich silty clay. Secondary lithology: Diatom ooze. Slight drilling disturbance (soupy) throughout the core. Dolostone layers can be recognized in Sections 3 and 5. Pebbles (probably fragments of dolostones) occur between Sections 2 and 6.



Core Photo

Hole 323-U1341B Core 59X, Interval 477.0-486.77m (CSF-A)

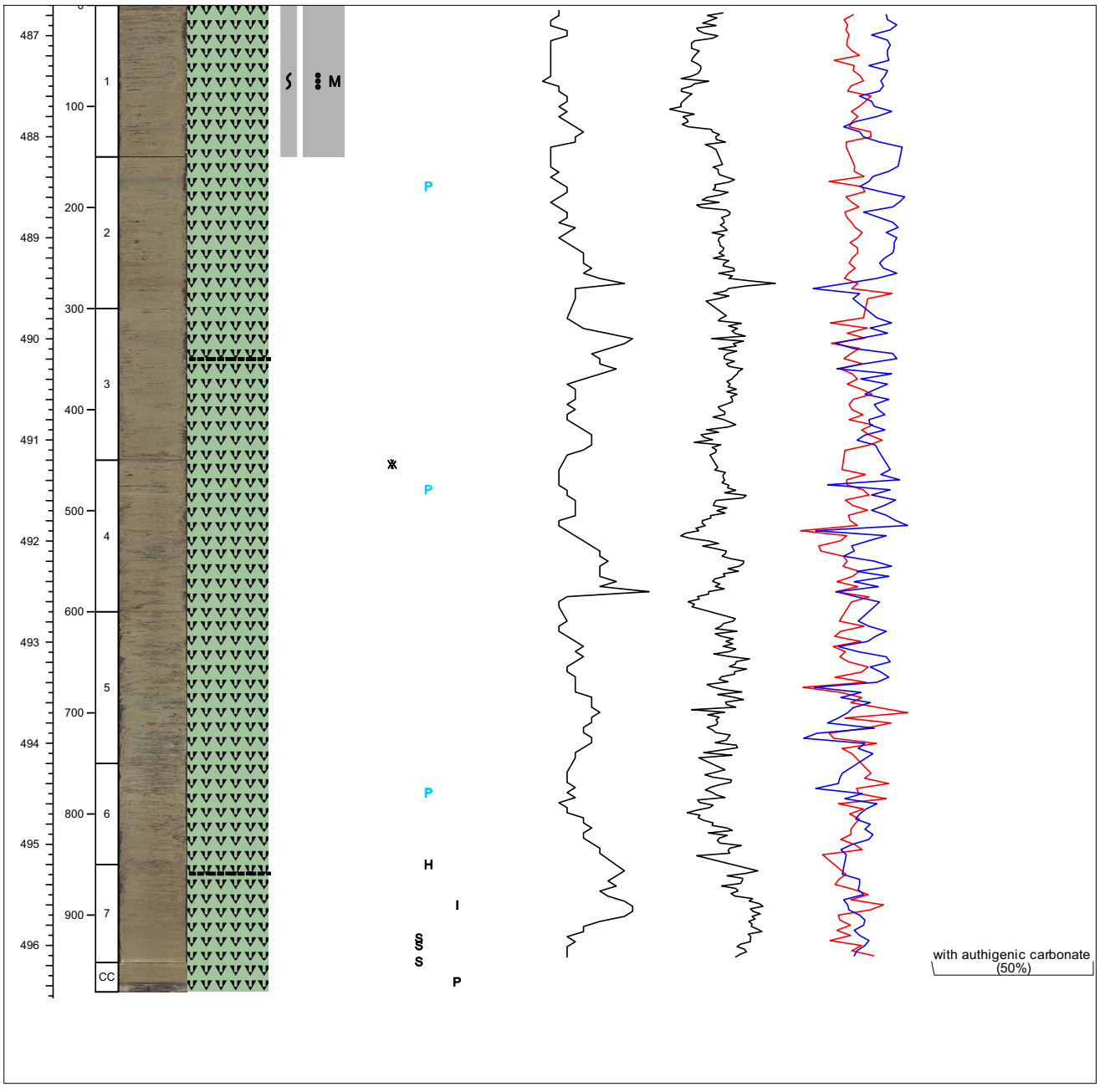
Main lithology: Sponge spicule bearing diatom ooze. Dolostone occurs at the top of the core. A redish layer just below the dolostone is a diatom ooze with no authigenic carbonate.



Core Photo

Hole 323-U1341B Core 60X, Interval 486.7-496.46m (CSF-A)

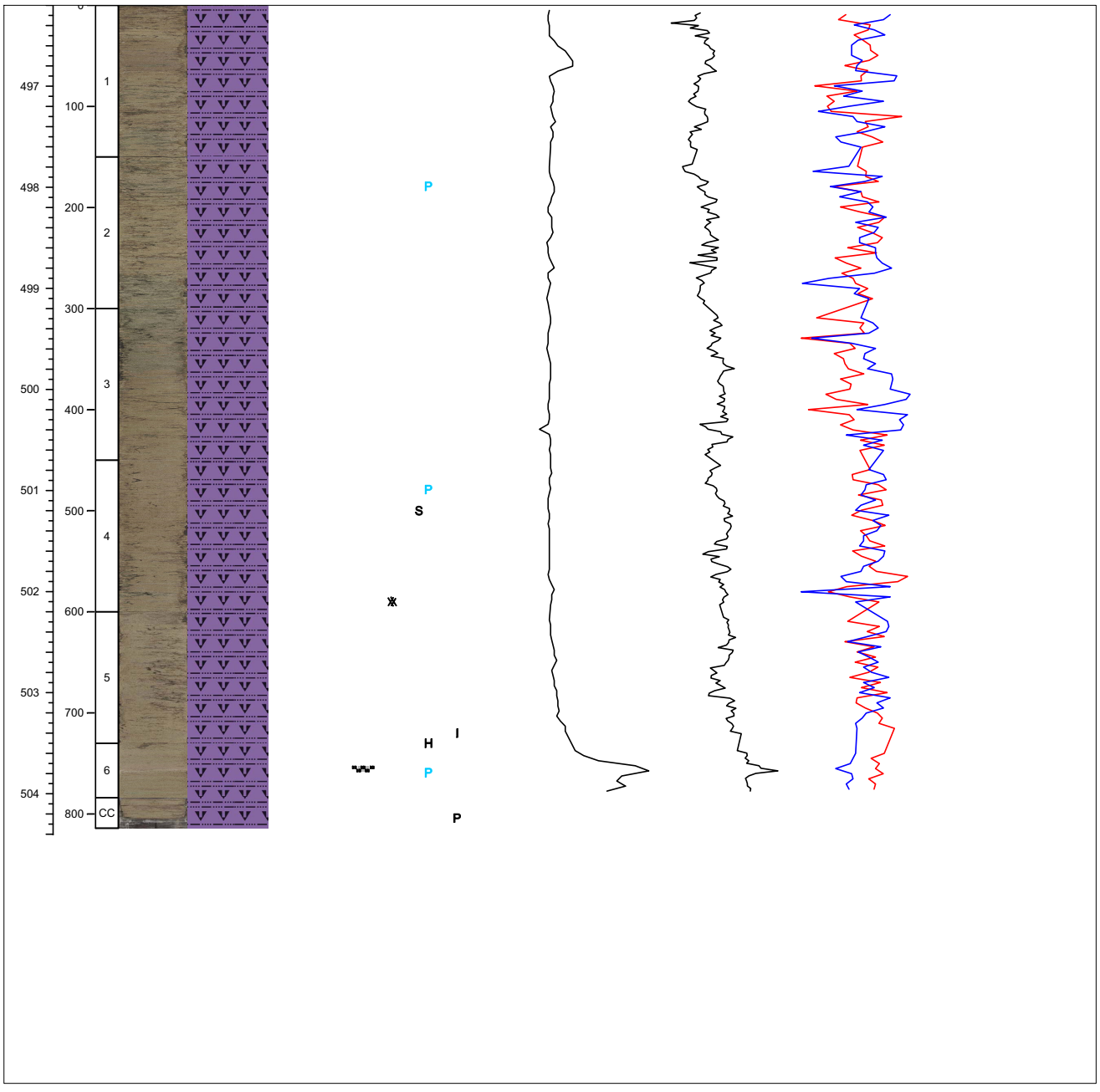
Main lithology: Diatom ooze. Sections 1 to Sec. 6 are disturbed (soupy). Several ash mottling are found in Sections 2-5 and 6. Whitish sponge spicule spots are present in Sections 4-6.



Core Photo

Hole 323-U1341B Core 61X, Interval 496.2-504.34m (CSF-A)

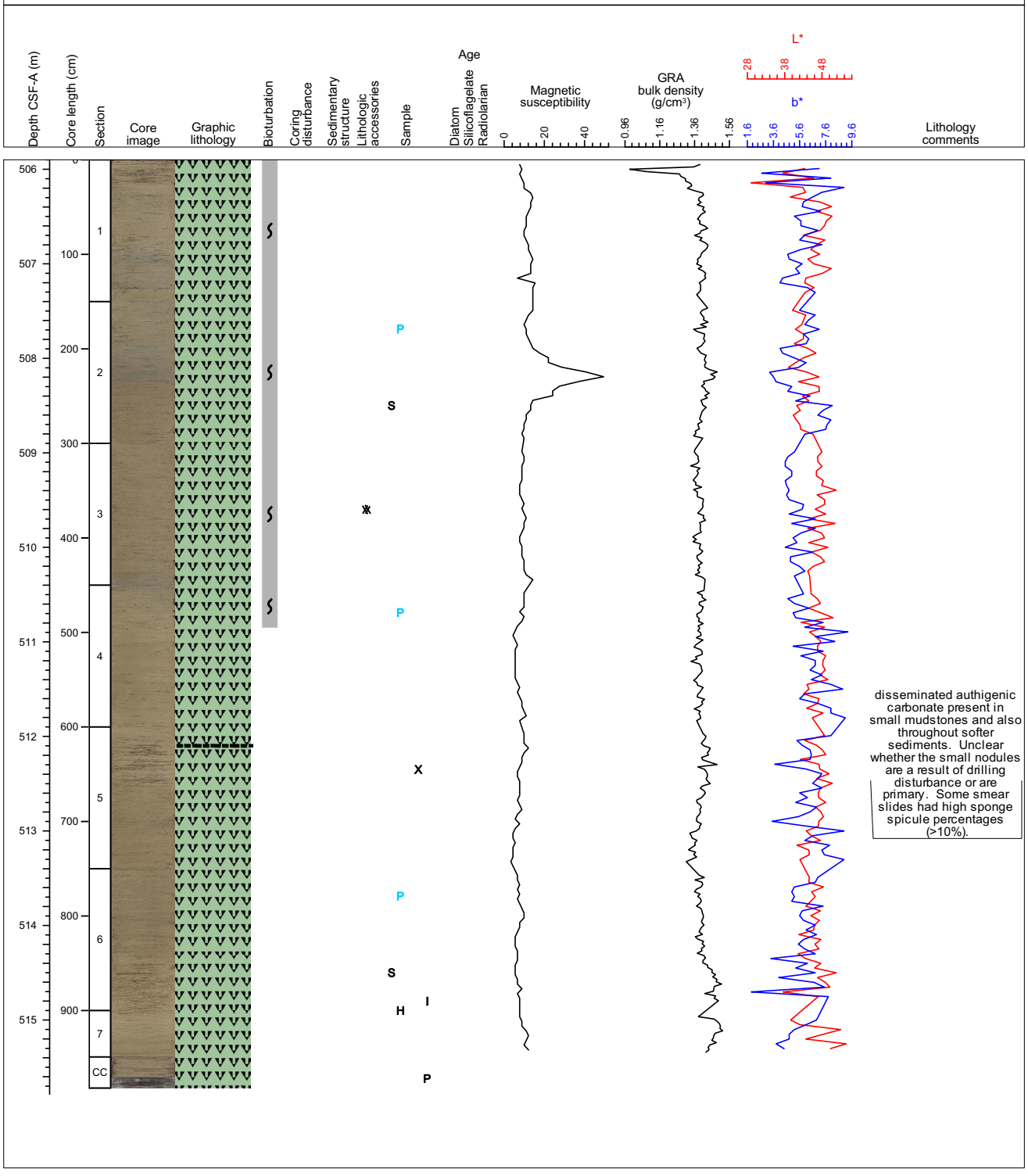
Major litholgy: Dark greenish gray diatom silty clay. One small laminated fine ash is found in Section 6. Drilling disturbance is moderate causing the sediments to be very wet, and cracked with space between the sediments and core liner.



Core Photo

Hole 323-U1341B Core 62X, Interval 505.9-515.72m (CSF-A)

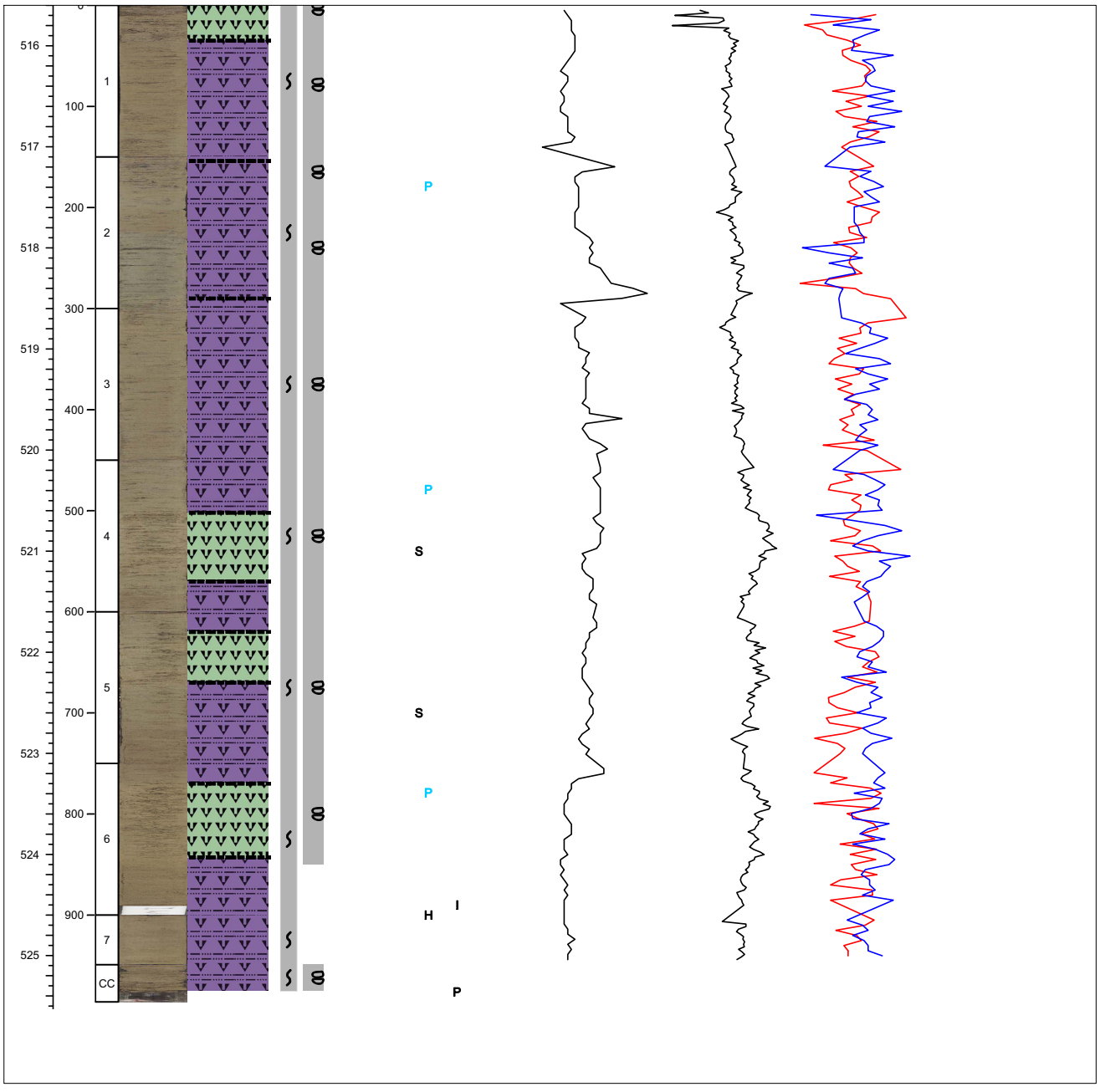
Main lithology: Dark greenish gray diatom ooze. Secondary lithology: Grayish brown authigenic carbonate rich diatom ooze. The boundaries between these 2 lithologies are gradational with the main differences being color and also texture. The authigenic-carbonate rich sections are partially indurated; mudstones are common. It is unclear whether the mudstones are a result of drilling disturbancs or a primary feature. There are no volcanic ash layers. Bioturbation is slight to absent throughout. Drilling disturbance is most prominent in the authigenic-carbonate-rich intervals.



Core Photo

Hole 323-U1341B Core 63X, Interval 515.6-525.46m (CSF-A)

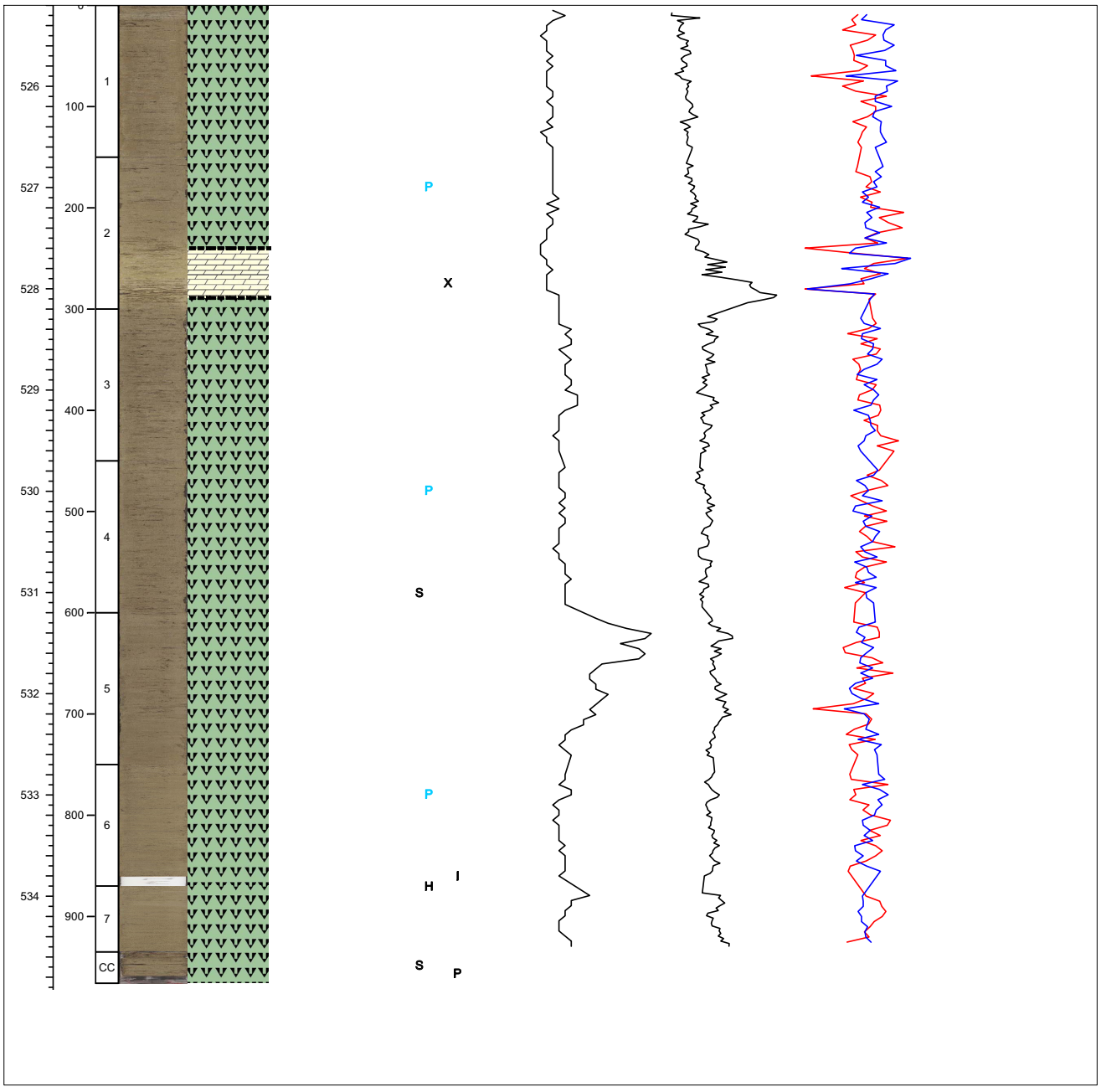
Major lithology is dolomitized diatom silty clay (olive gray 5Y 4/2). Secondary lithology is dolomitized diatom ooze (olive gray 5Y 4/2). They occur alternately. In the secondary lithology; scattered nodules of dolomite occur. Drilling disturbance is slight to moderate.



Core Photo

Hole 323-U1341B Core 64X, Interval 525.2-534.86m (CSF-A)

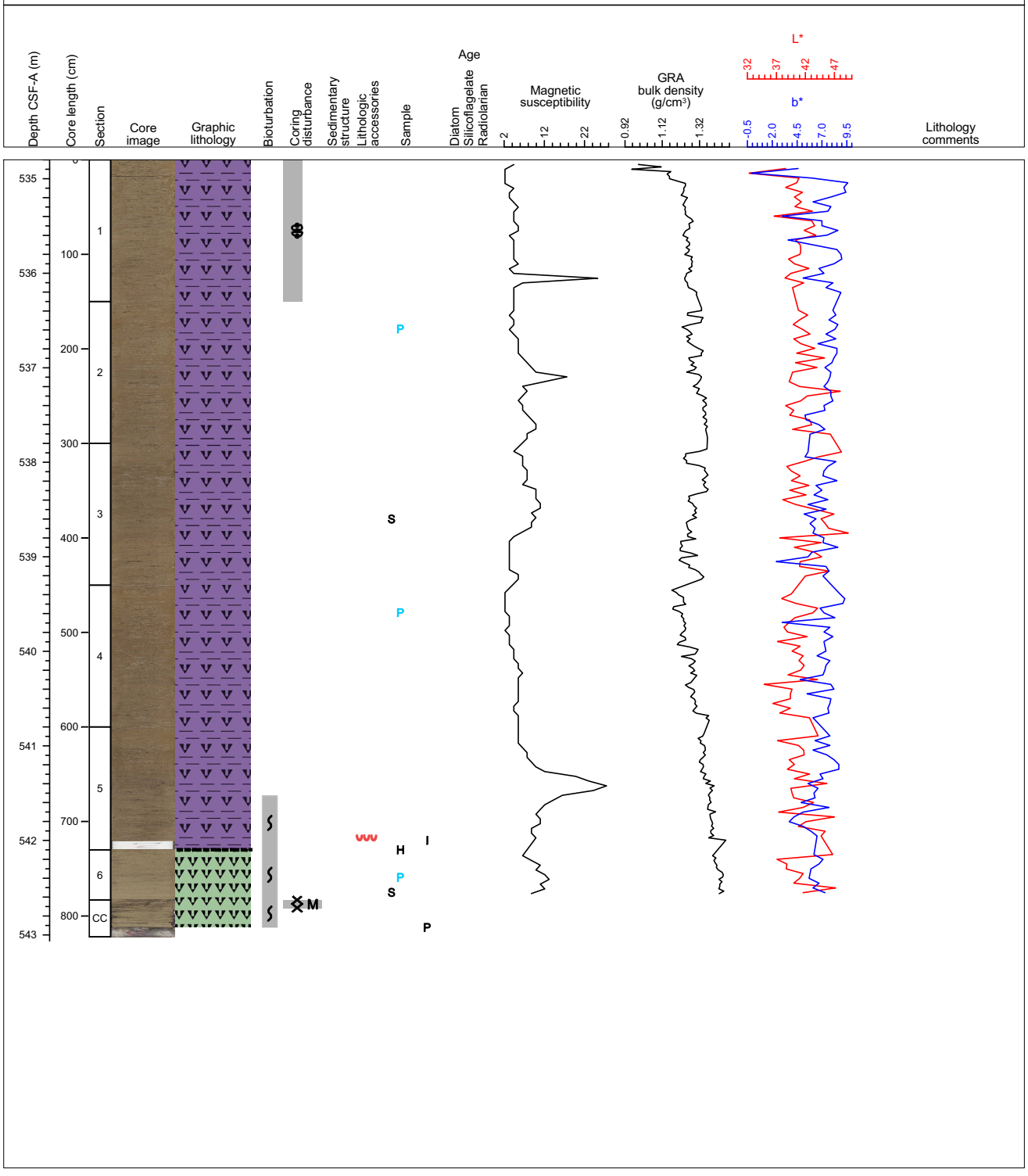
The main lithology is semi-indurated olive gray diatom ooze. A prominent semi-indurated light olive gray dolomite layer occurs at the bottom of Section 2.



Core Photo

Hole 323-U1341B Core 65X, Interval 534.8-543.02m (CSF-A)

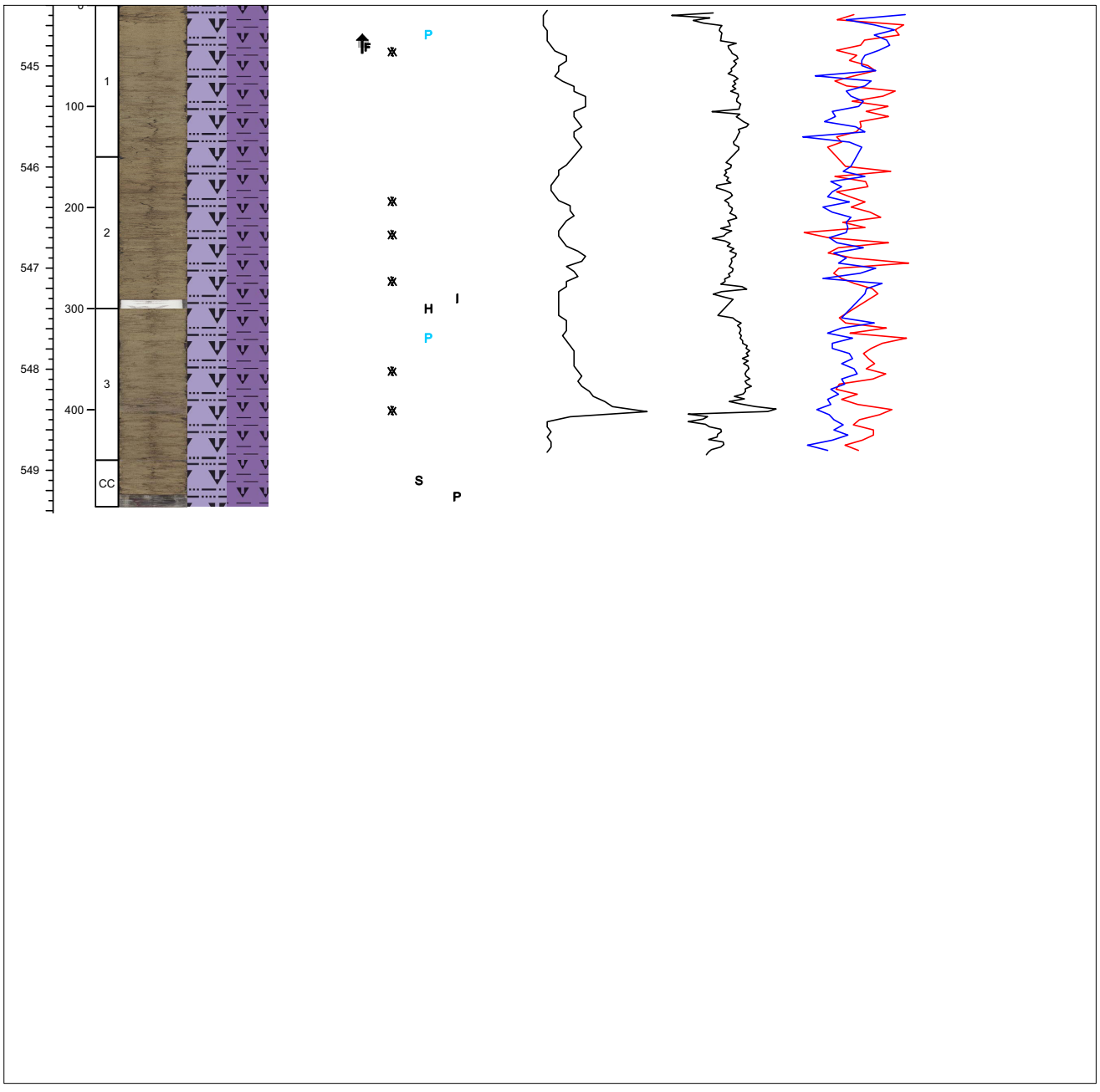
Major lithology is diatom clay (dark grayish brown 2.5Y 4/2). Secondary lithology is diatom ooze (olive gray 5Y 4/2). Major lithology occurs from Section 1 to Section 5. The secondary lithology occurs from Section 6 to CC. From Section 1 to Section 5 (73cm) sediment is soupy because of drilling distubance.



Core Photo

Hole 323-U1341B Core 66X, Interval 544.4-549.36m (CSF-A)

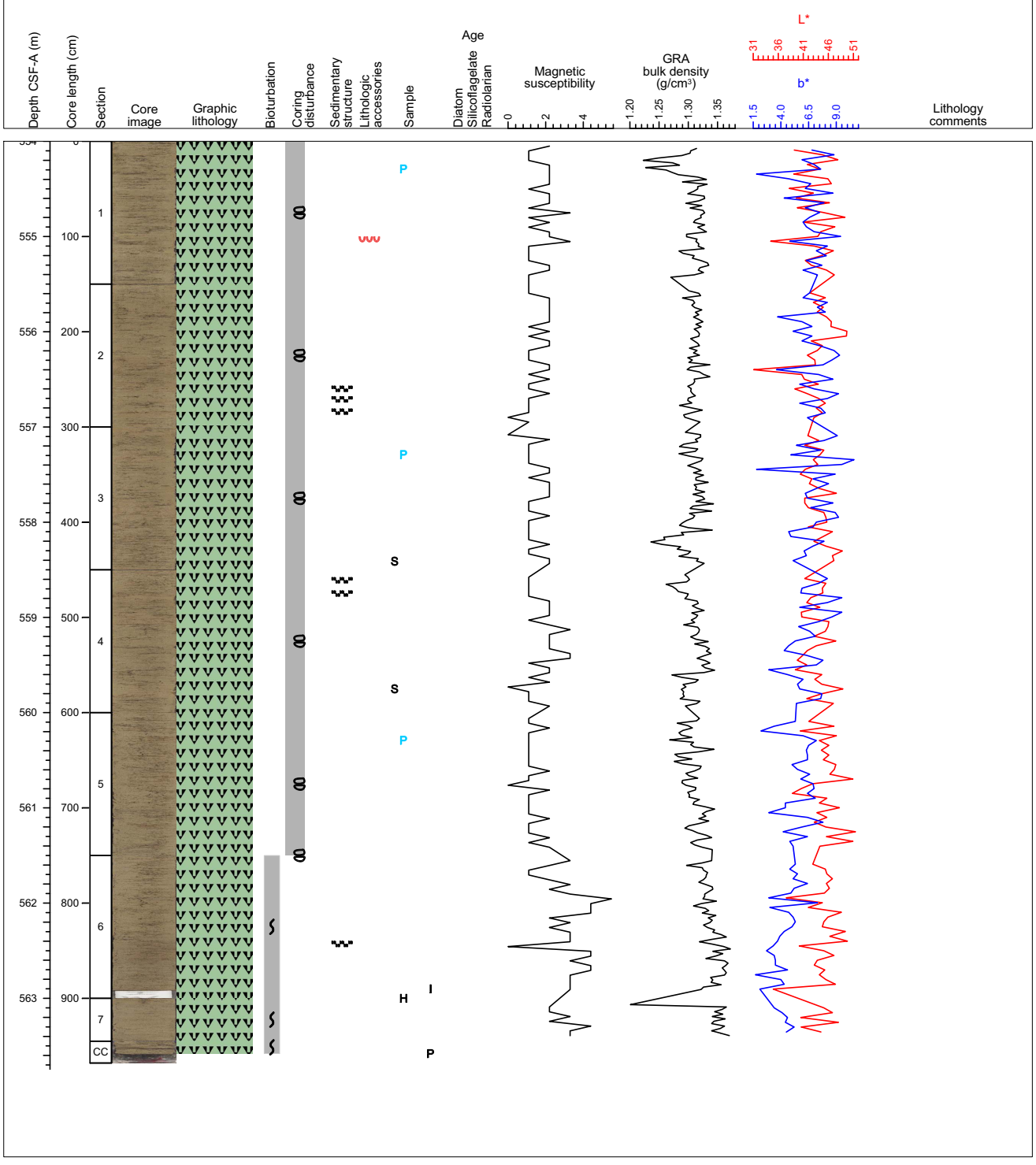
The main lithology is diatom clayey silt. Faint laminations was observed at the top of section 1.



Core Photo

Hole 323-U1341B Core 67X, Interval 554.0-563.68m (CSF-A)

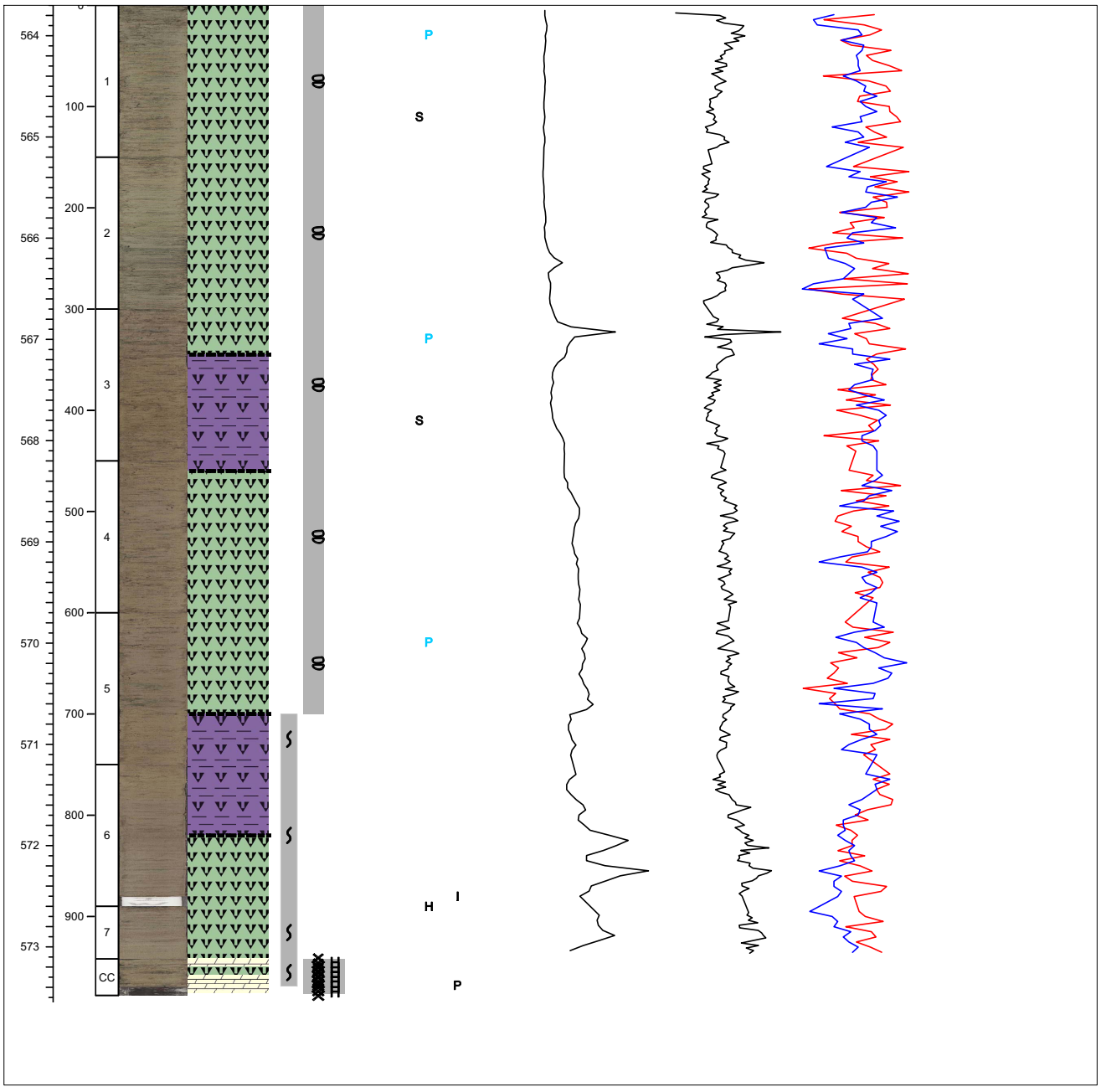
Major litholoy is diatom ooze (dark graynish brown 2.5Y 4/2). drilling disturbance is moderate from Section 1 to 5. Faint red laminae (diatom clay) occured in Section 2; 4 and 6.



Core Photo

Hole 323-U1341B Core 68X, Interval 563.7-573.48m (CSF-A)

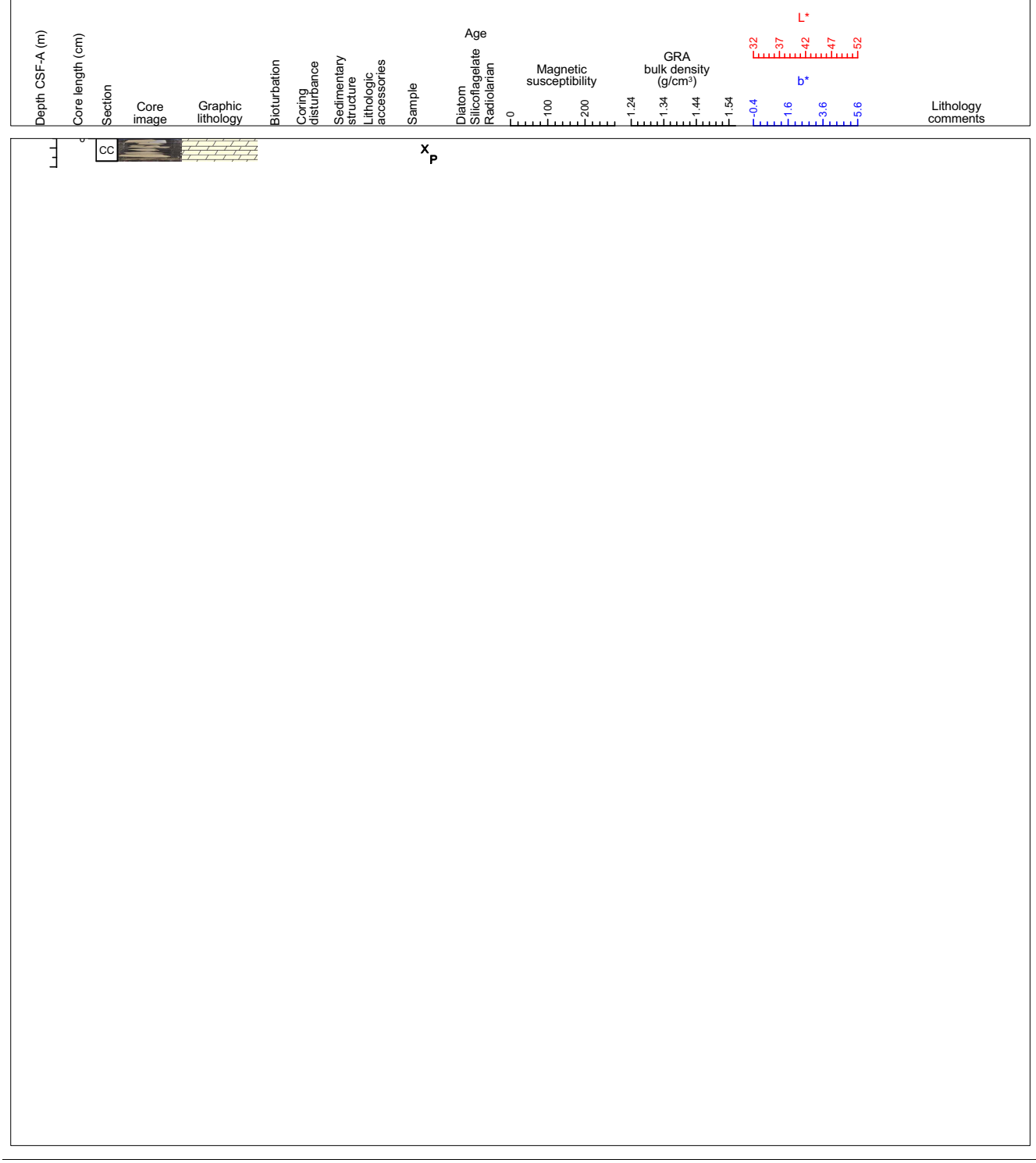
Major lithology is diatom ooze (dark greenish gray 10Y 4/1). Secondary lithology is diatom clay (dark graynish brown 2.5Y 4/2).
The two lithologies alternate. Drilling disturbance is moderate from Section 1 to Section 5 and CC.



Core Photo

Hole 323-U1341B Core 69X, Interval 573.3-573.54m (CSF-A)

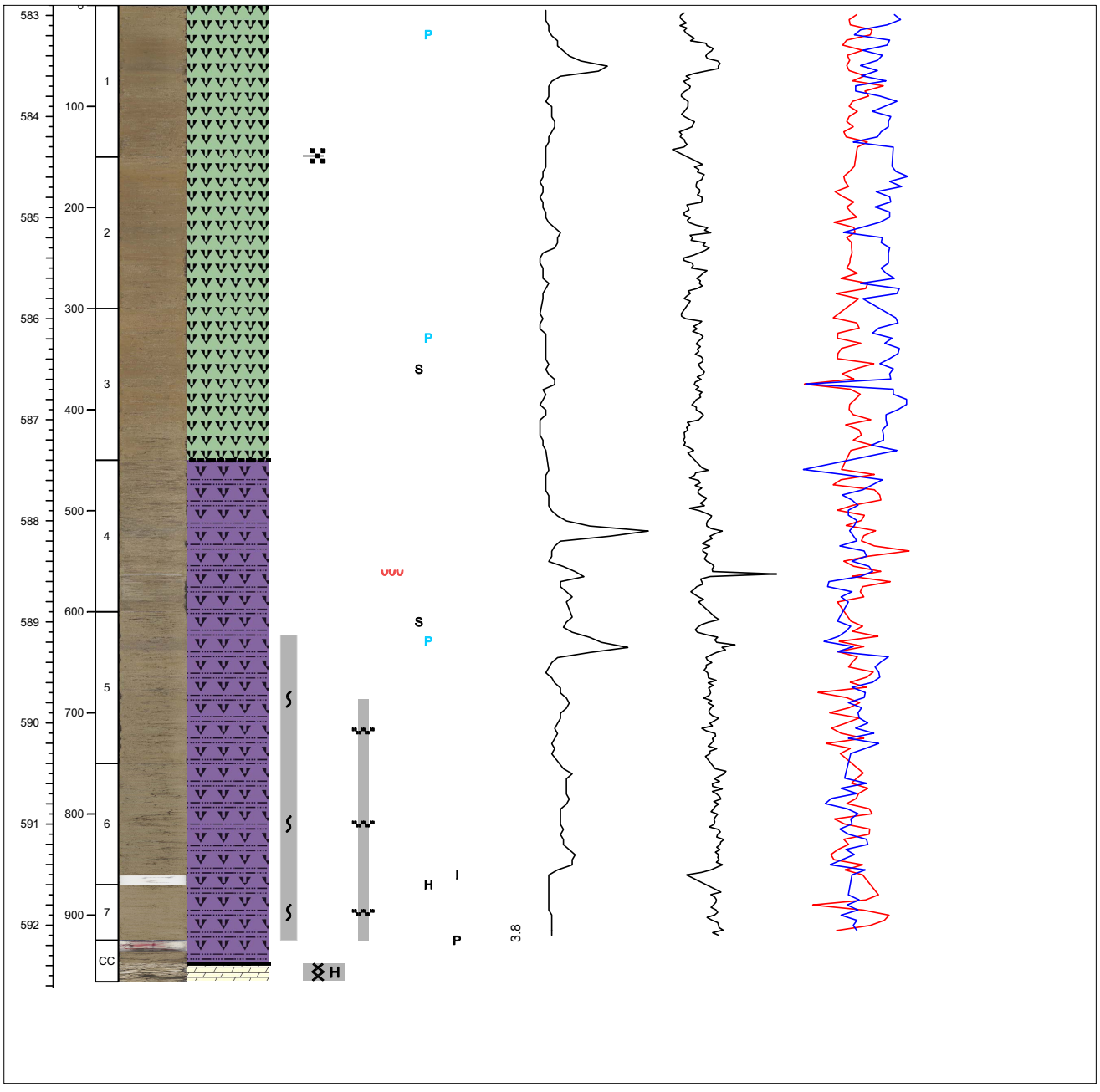
No description available.



Core Photo

Hole 323-U1341B Core 70X, Interval 582.9-592.56m (CSF-A)

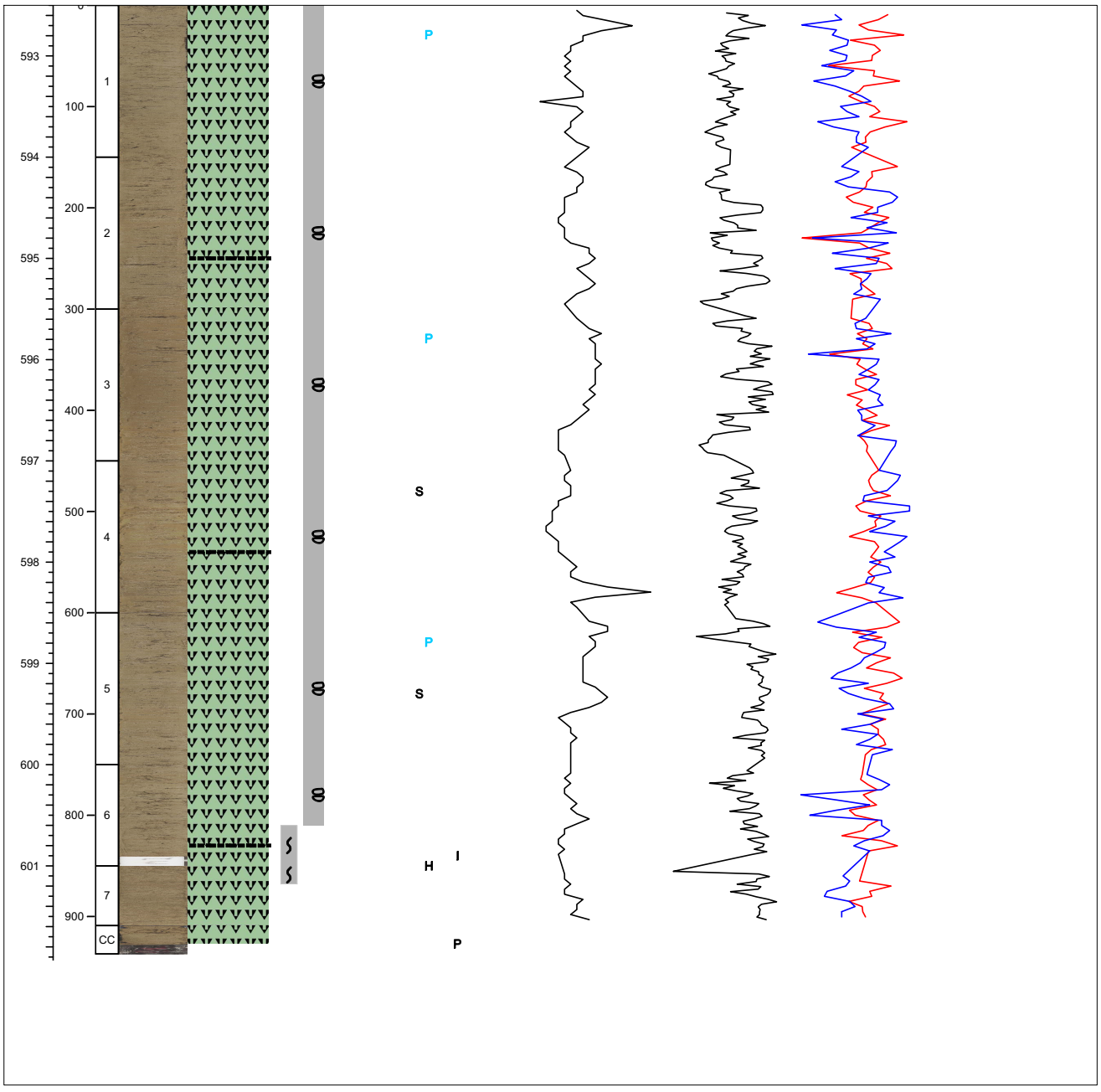
Major lithologies: Olive gray diatom ooze and greenish gray diatom silty clay separated by a gradational boundary. The silty clay is thickly laminated with recurring orange brown laminae reflecting higher clay concentrations. One thin light gray ash layer is present in section 4. Other sections include dark ash mottles. Bioturbation is slight to non-visible. Drilling disturbance is minimal; however, the sediments are water saturated.



Core Photo

Hole 323-U1341B Core 71X, Interval 592.5-601.87m (CSF-A)

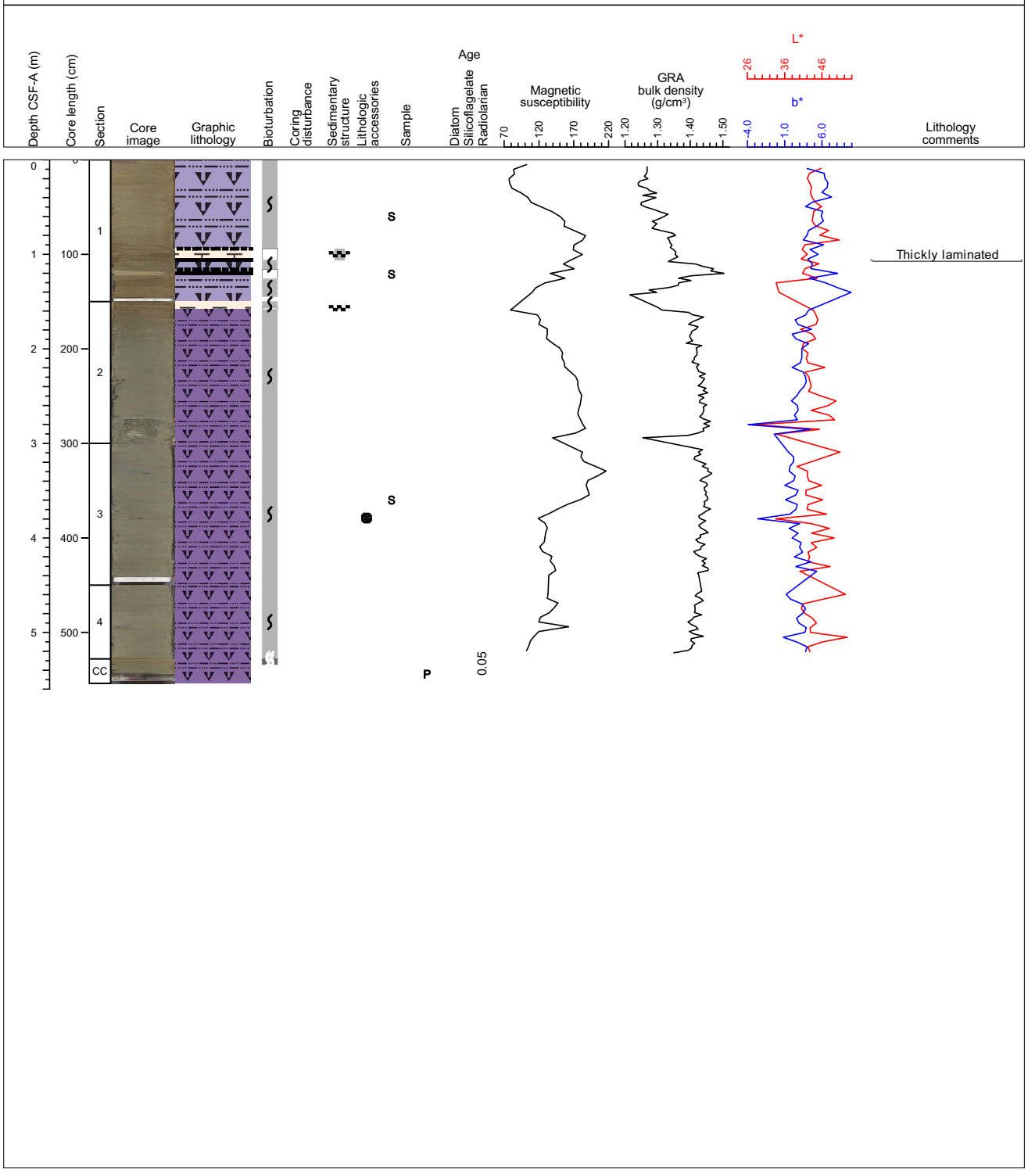
Major lithology is sponge spicule-bearing diatom ooze (dark grayish brown 2.5Y 4/2 to olive gray 5Y 4/2).



Core Photo

Hole 323-U1341C Core 1H, Interval 0.0-5.54m (CSF-A)

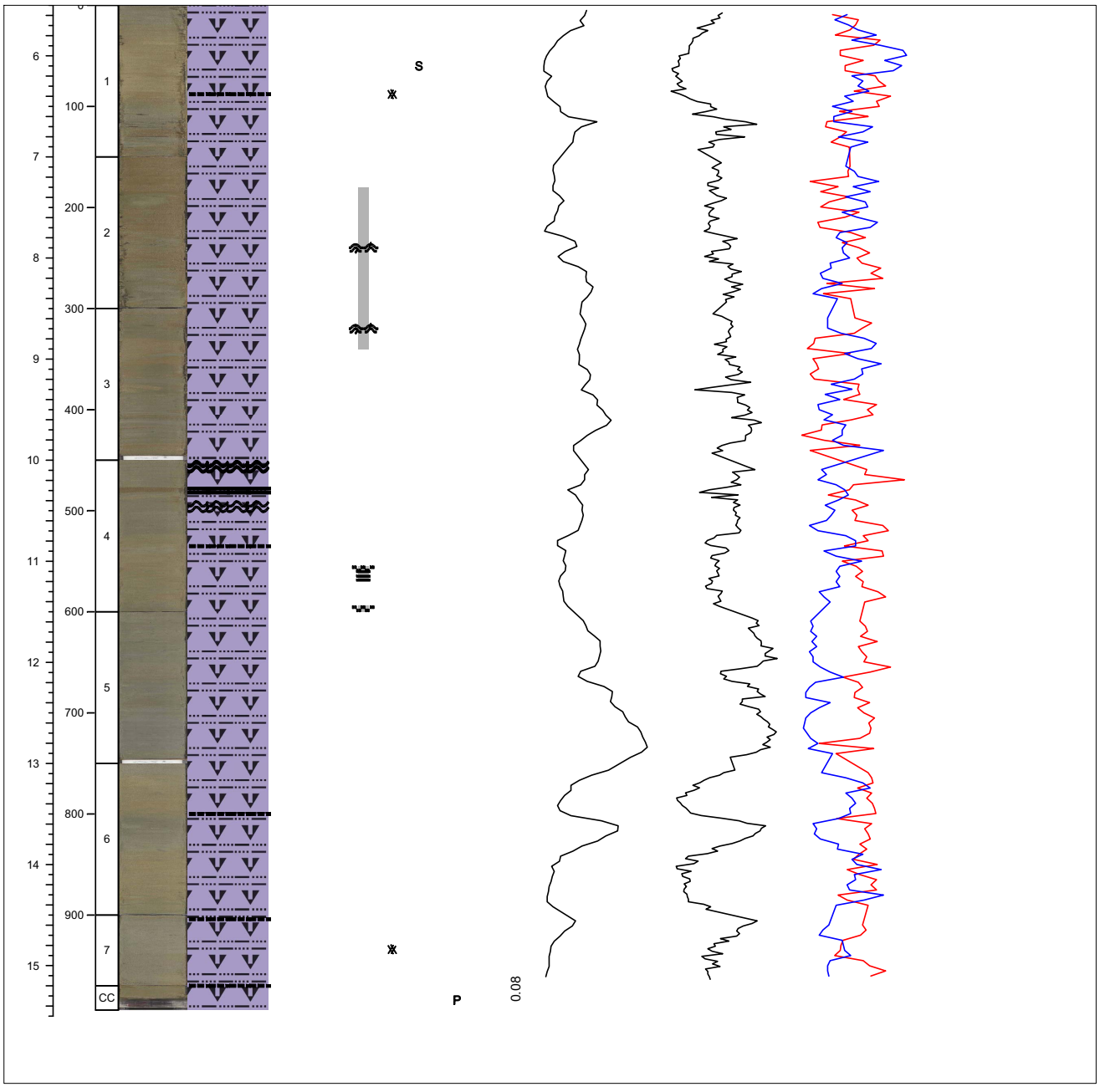
Main lithologies: Foraminifer-bearing diatom silty clay and diatom clayey silt. Clear thick laminations are visible in Sections 1 and 2. White layers within those laminations are foraminifer ooze. The boundary between the main lithology and those laminations is sharp. Most of the core is slightly bioturbated. Severe drilling disturbance appear in the bottom of Section 2.



Core Photo

Hole 323-U1341C Core 2H, Interval 5.5-15.44m (CSF-A)

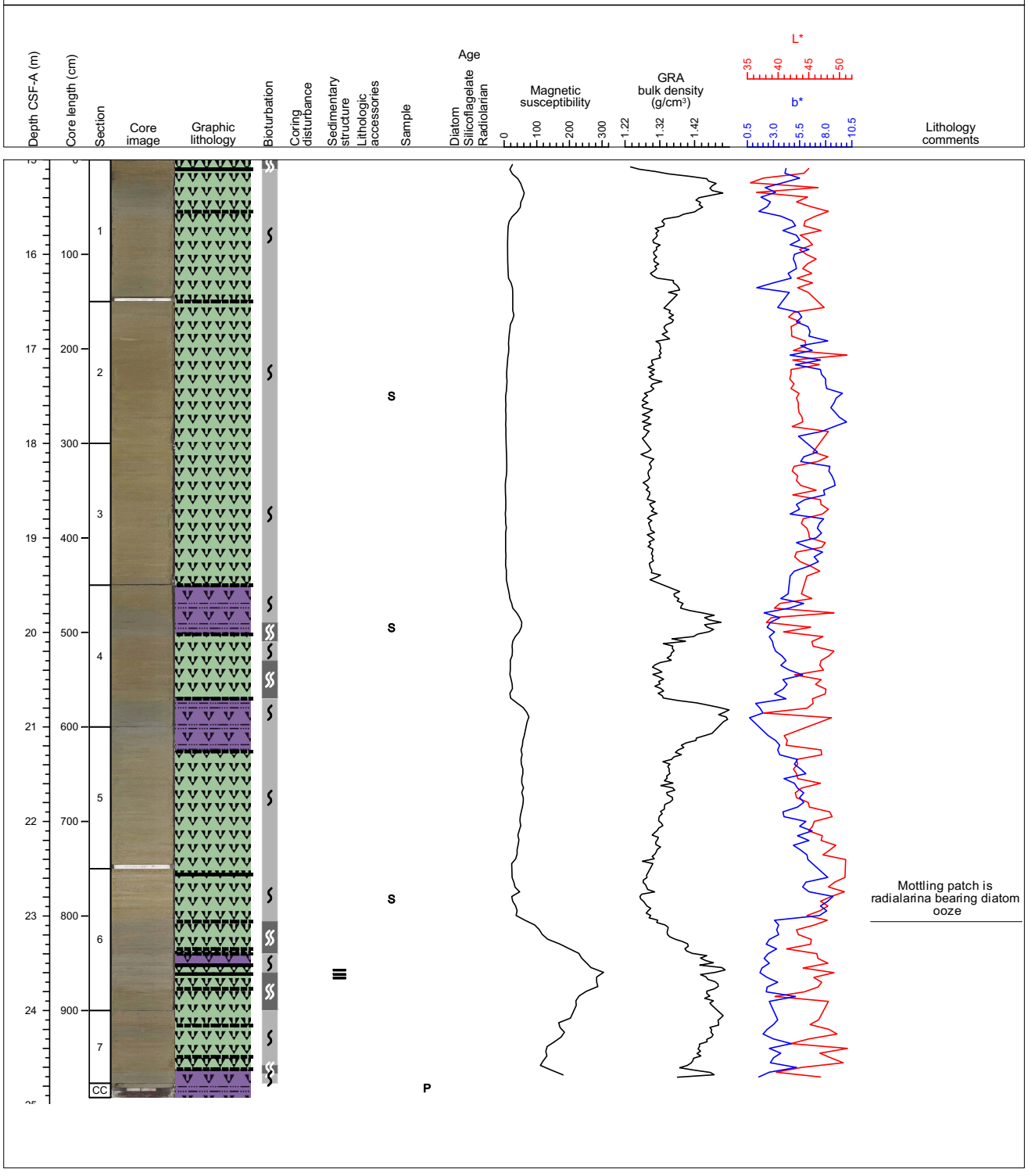
Main lithology: Diatom clayey silt (5Y 4/2, 5/2, and 5/3). Secondary lithology: foraminifer bearing diatom clayey silt (10Y 4/1). The alteration of those lithologies occurs in Section 4 to CC. Section 1-3 mainly consit of the major lithology. Thick laminations and thin beds (10 cm long) are recognized at Section 3. Slight and moderate bioturbation are visible. Soft sediment deformation (slump or tilted bed) occurs from Section 2 to 3.



Core Photo

Hole 323-U1341C Core 3H, Interval 15.0-24.92m (CSF-A)

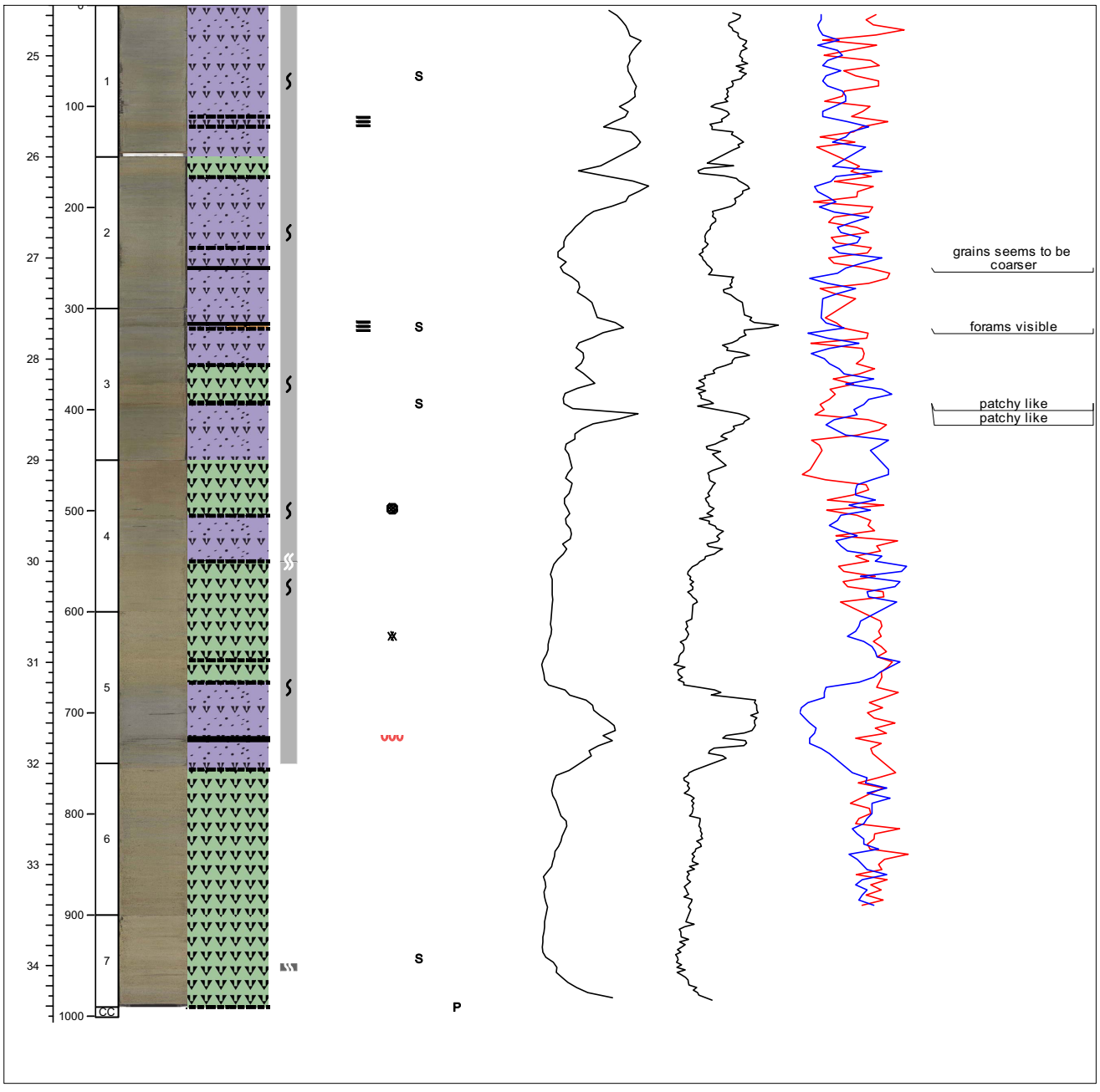
Main lithology: Diatom ooze (olive 5Y 4/2). Secondary lithology: diatom silty clay (Dark greenish gray 10Y 4/1). These two lithologies alterate throughout the core. Slight to moderate bioturbation is visible throughout the core. Clear mottling was visible in Section 4 and 5 in the light olive sediments.



Core Photo

Hole 323-U1341C Core 4H, Interval 24.5-34.51m (CSF-A)

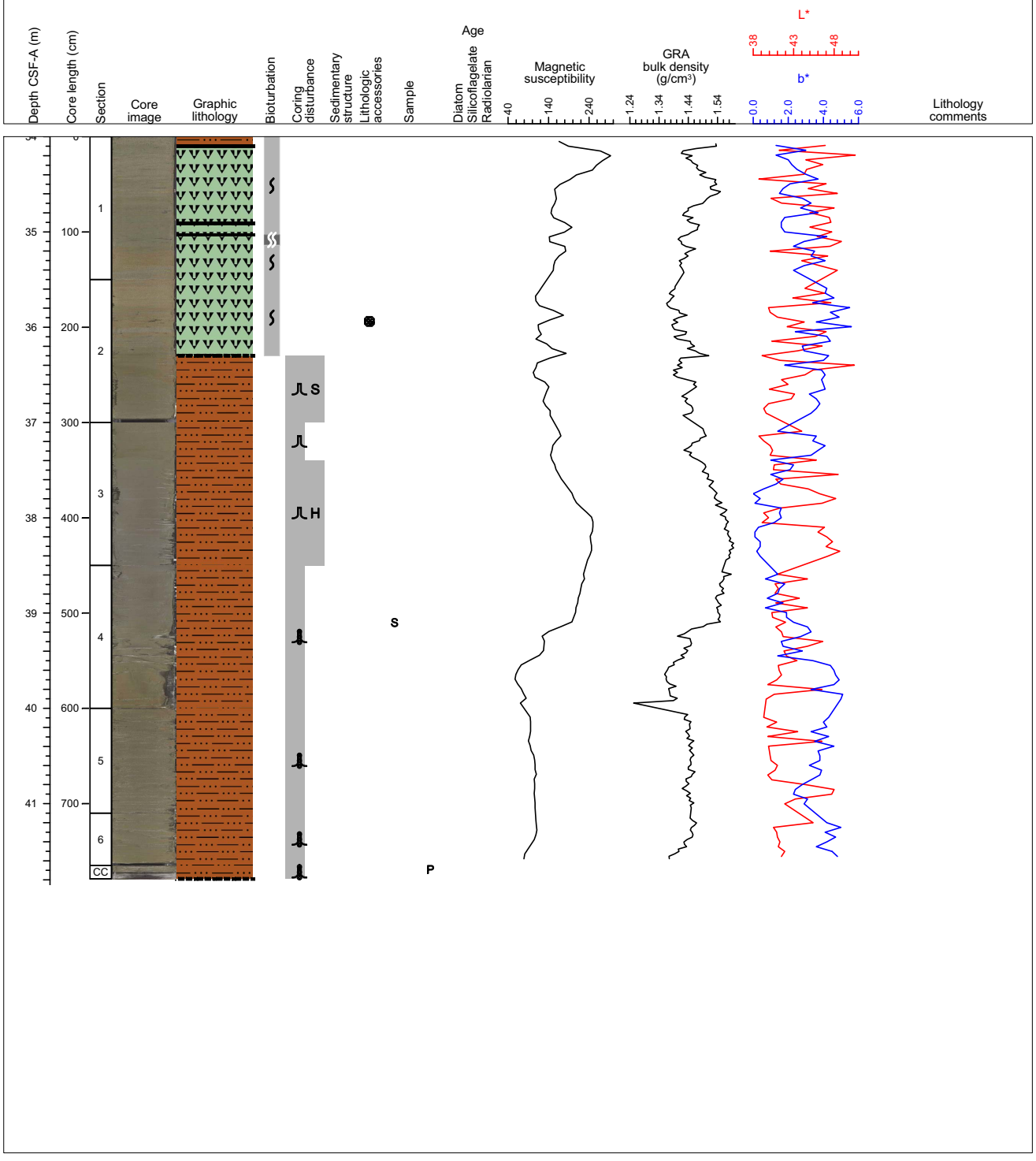
Main lithology: Diatom silt. Secondary lithology: Diatom ooze. Foraminfer-rich or bearing layers are recognized in Sections 1 and 3. Slightly bioturbated throughout the core.



Core Photo

Hole 323-U1341C Core 5H, Interval 34.0-41.79m (CSF-A)

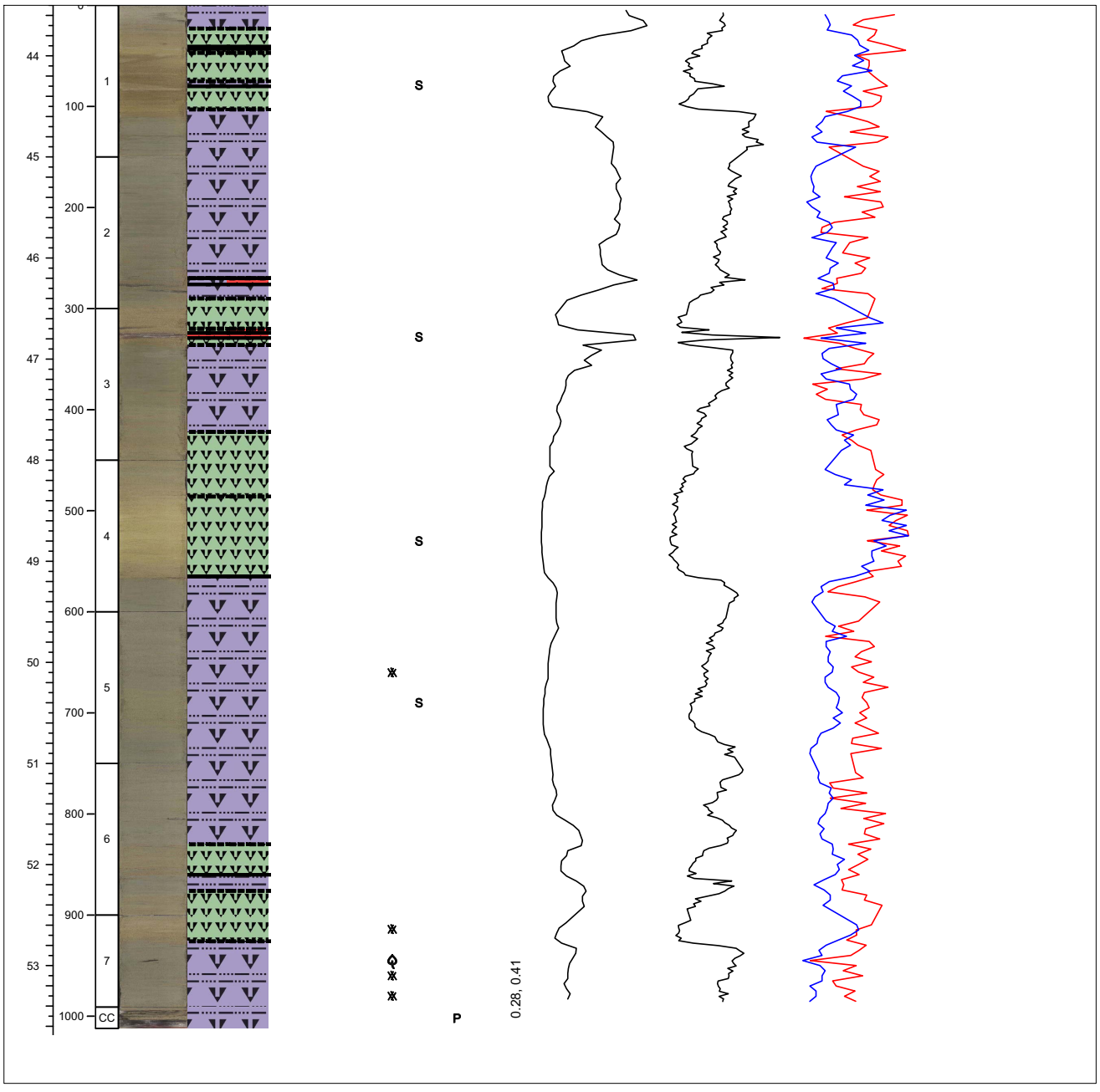
Main lithology: Diatom-rich silty clay. Severe drilling disturbance (flow in) occurred from Sec. 3 to the bottom of the core.



Core Photo

Hole 323-U1341C Core 6H, Interval 43.5-53.62m (CSF-A)

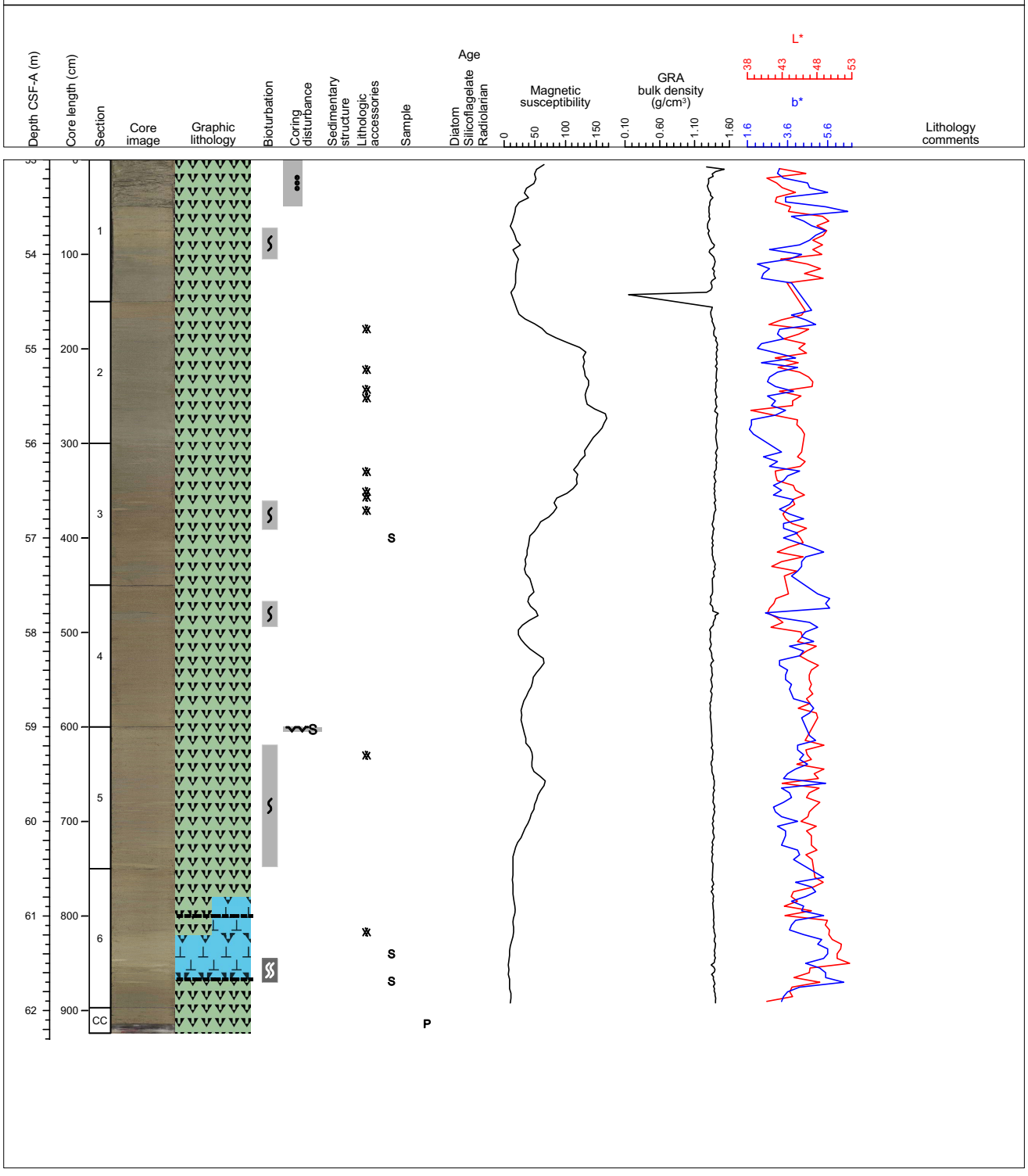
Main lithology: Diatom ooze (Olive: 5Y 4/2). Secondary lithology: Foraminifer-bearing diatom silt (Dark gray: 10Y 4/1). Alteration of colors occurs throughout the core. Foraminfer-rich layers were found in Sections 1 and 4. Slight bioturbation occurs throughout the core.



Core Photo

Hole 323-U1341C Core 7H, Interval 53.0-62.24m (CSF-A)

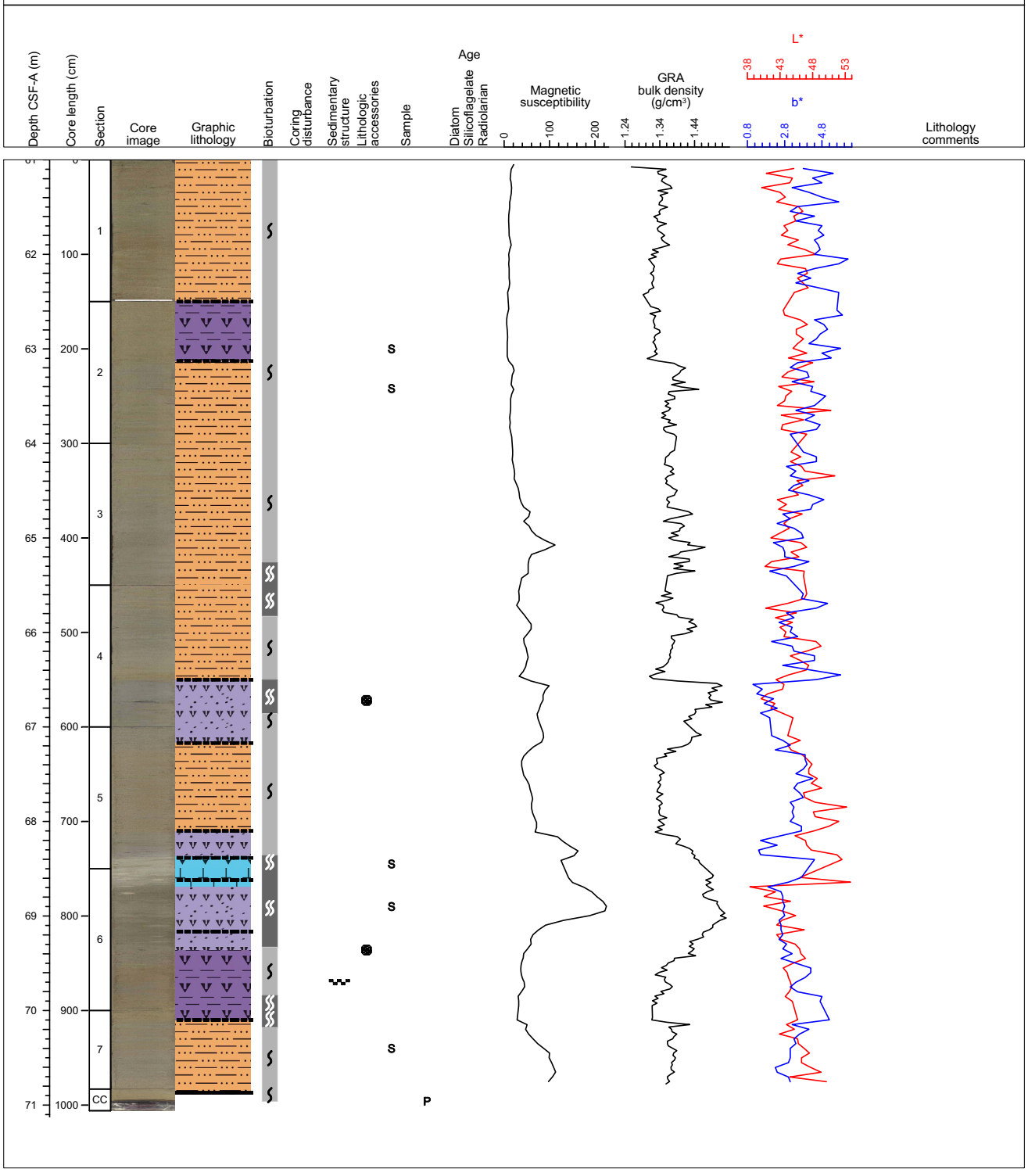
Major lithologies: Dark greenish gray diatom ooze grades into secondary lithology: olive gray nannofossil diatom ooze. No ash layers or clasts were observed. Mottles are scattered throughout the core; light mottles have higher amounts of nannofossils and less clay. Sponge spicule aggregates also occur throughout the core. Bioturbation is slight throughout most of the core and drilling disturbance is minimal.



Core Photo

Hole 323-U1341C Core 8H, Interval 61.0-71.06m (CSF-A)

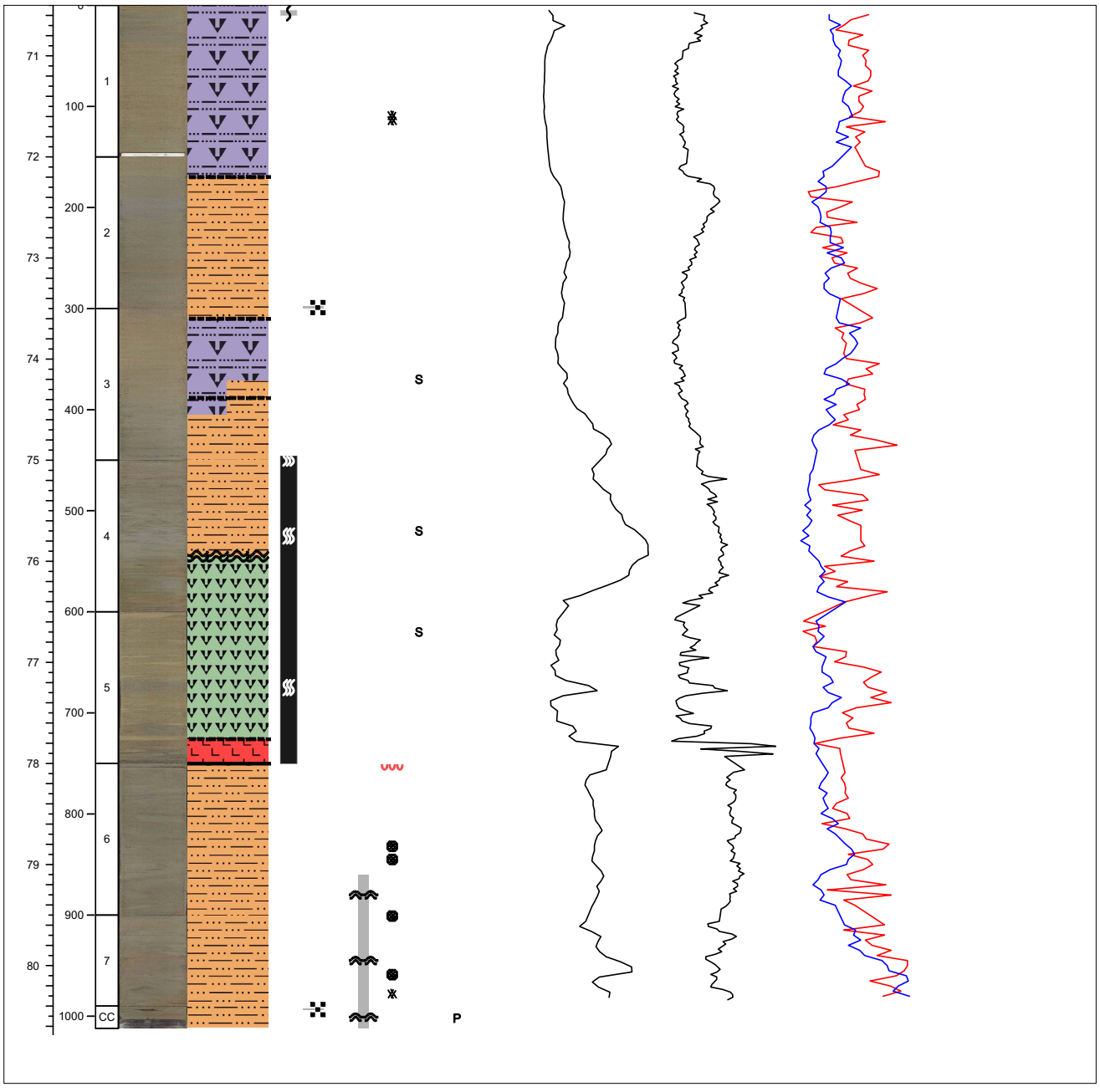
Major lithology is diatom-rich clayey silt (olive gray 5Y 4/2). Secondary lithology is nannofossil-bearing diatom clay (olive 5Y 4/3). The secondary lithology occurs in Section 2 (0-63cm) and the bottom of Section 6 (87cm). From Section 5 (137cm) to Section 6 (20cm) foraminifera-rich nannofossil diatom ooze (olive gray 5Y 5/2) occurs as a minor lithology between a nannofossil-bearing diatom silt layer (Section 5 : 110-137cm; Section 6: 20-87cm). A prolate, well-rounded cobble (gneiss) occured in Section 4 (122-123cm). Bioturbation is slight to moderate.



Core Photo

Hole 323-U1341C Core 9H, Interval 70.5-80.62m (CSF-A)

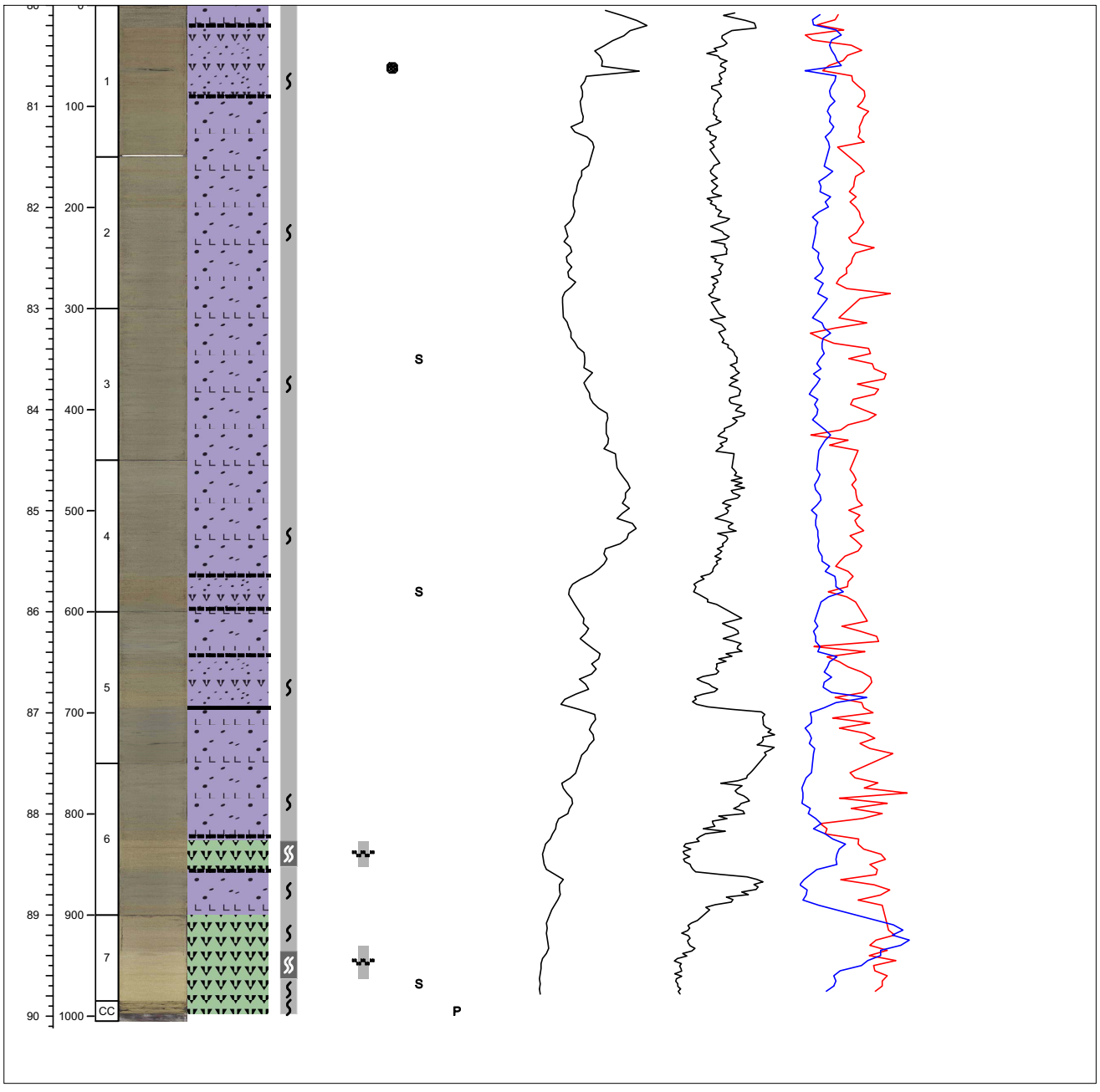
Major lithologies: Olive gray diatom clayey silt, very dark to dark greenish gray diatom-rich clayey silt and dark olive gray and olive diatom ooze occur as alternating thick beds that grade into one another. One thick coarse ash is present in Section 5. The ash is heavily mottled with clayey silt mottles. Pebbles are present in Sections 6 and 7 and mottling is present throughout. Soft sediment deformation is visible from Section 6 through the end of the core catcher. Drilling disturbances are absent.



Core Photo

Hole 323-U1341C Core 10H, Interval 80.0-90.05m (CSF-A)

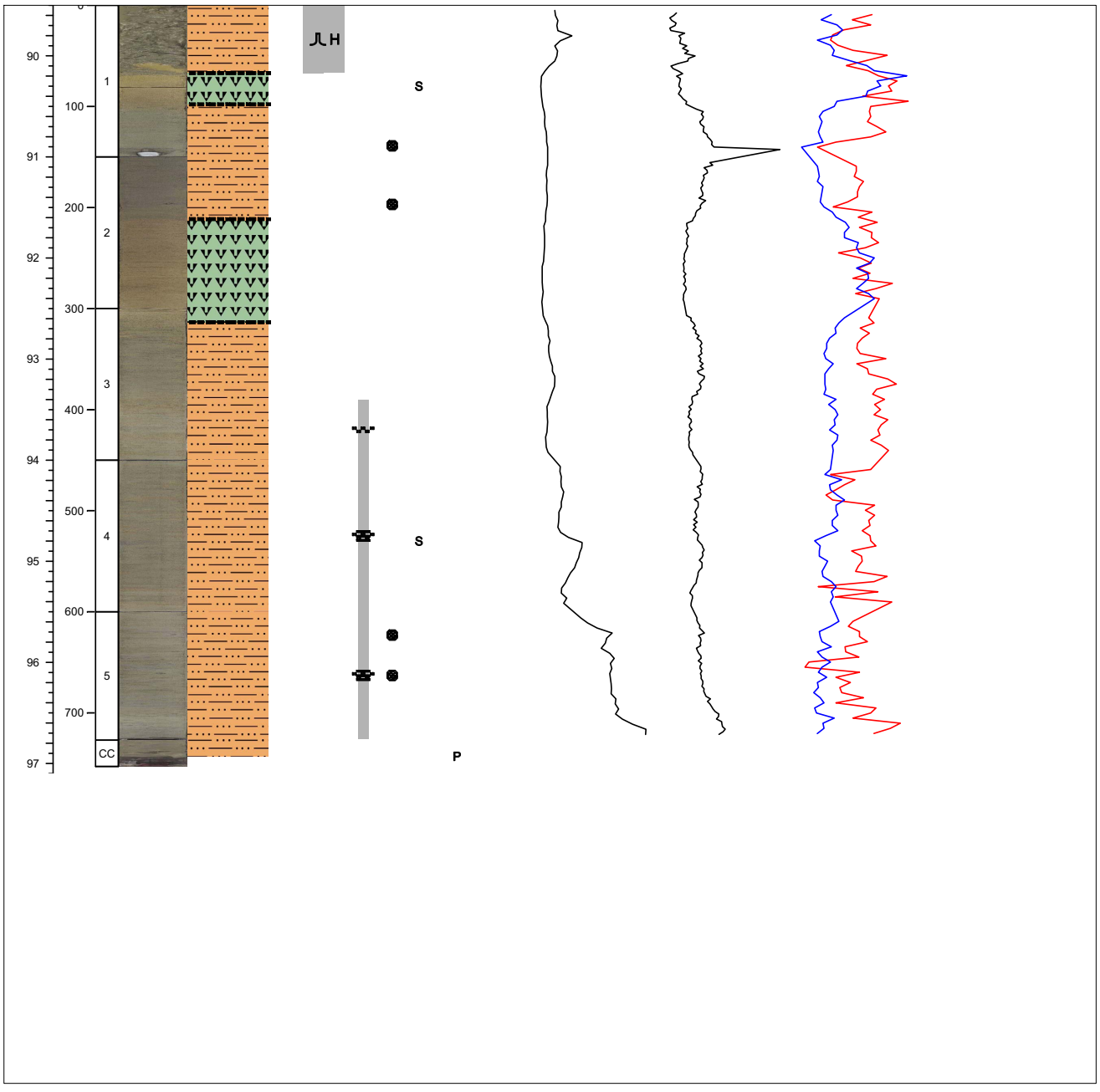
Major lithology is diatom-rich fine ashy silt (dark greenish gray 10Y 4/1). Secondary lithology is diatom ooze (olive 5Y 5/3). The secondary lithology occured from Section 6 to CC. Very faint laminae is recognized in the secondary lithology. A basaltic cobble occurs in Section 1 (62-64cm). Bioturbation is slight to moderate.



Core Photo

Hole 323-U1341C Core 11H, Interval 89.5-97.03m (CSF-A)

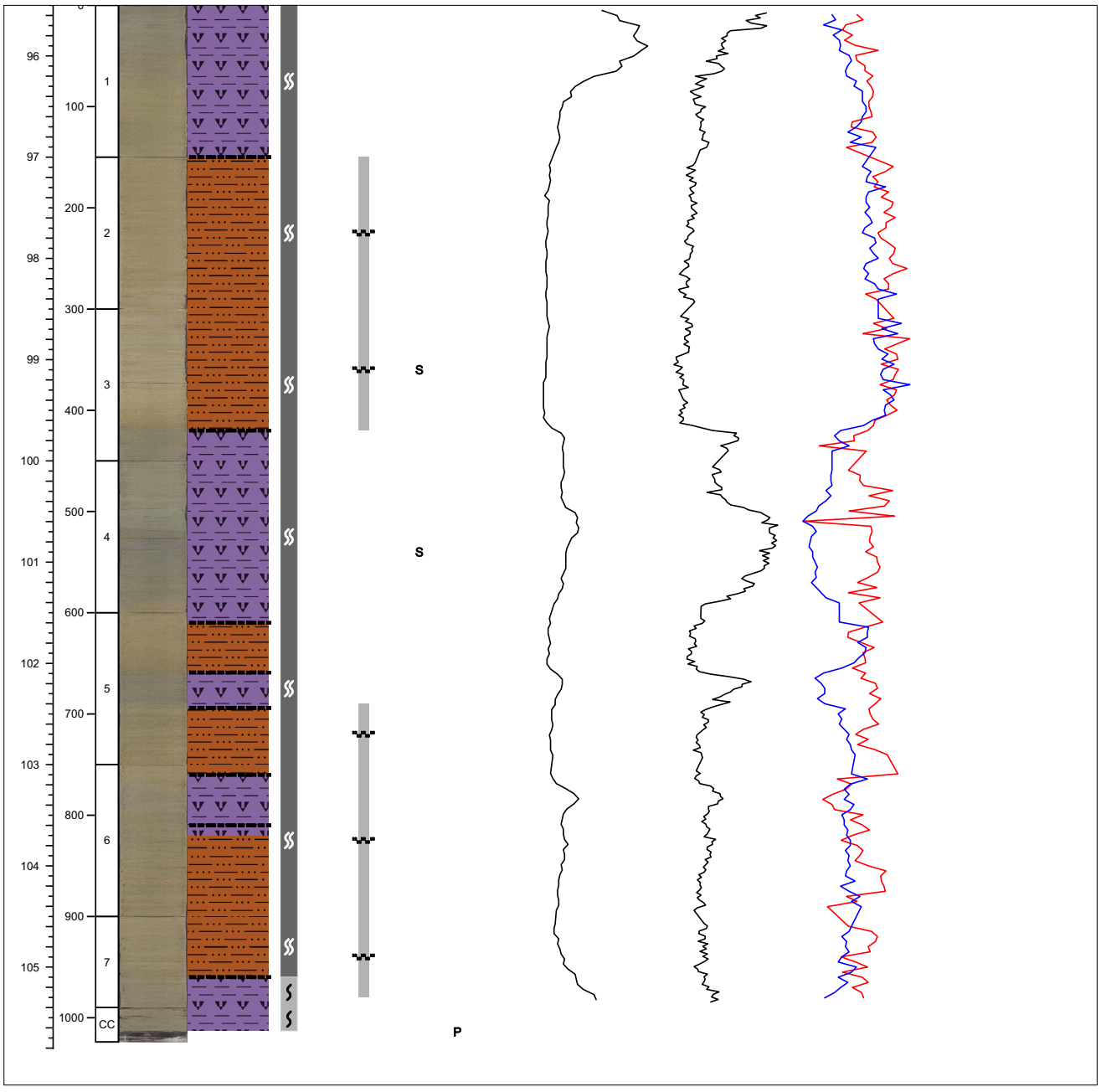
Two main lithologies alternate: Dark gray diatom-rich clayey silt and olive gray, often fainlty laminated, olive gray diatom ooze. A large cobble clast ocurs at the bottom of Section 1.



Core Photo

Hole 323-U1341C Core 12H, Interval 95.5-105.74m (CSF-A)

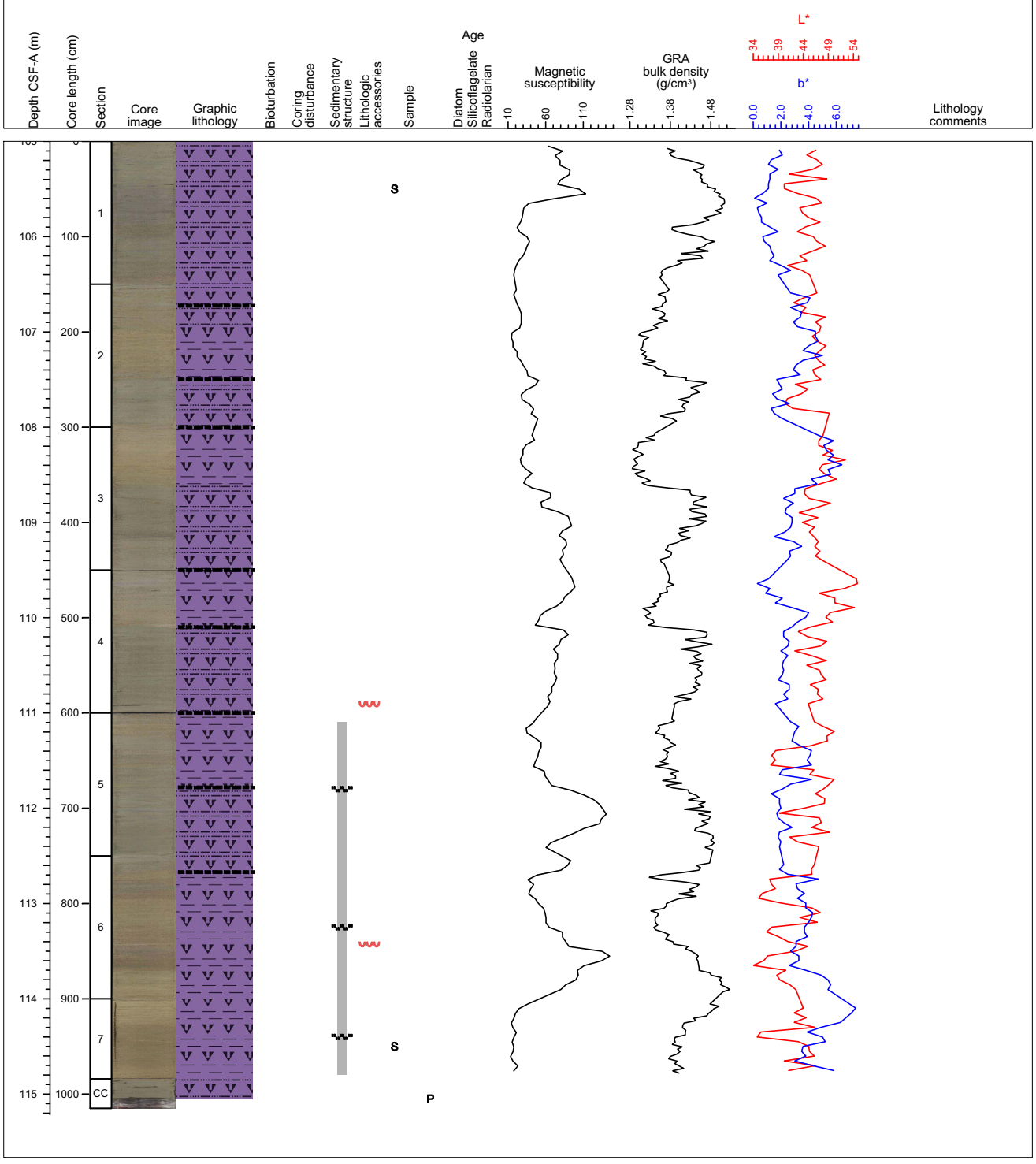
Major lithology is diatom-rich silty clay (olive 5Y 4/3). Secondary lithology is diatom clay (dark greeinsh gray 10Y 4/1). In this core diatom content is higher in the darker colored sediments (dark greenish gray). Vary faint laminae are recognized in the major lithology. Bioturbation is moderate.



Core Photo

Hole 323-U1341C Core 13H, Interval 105.0-115.15m (CSF-A)

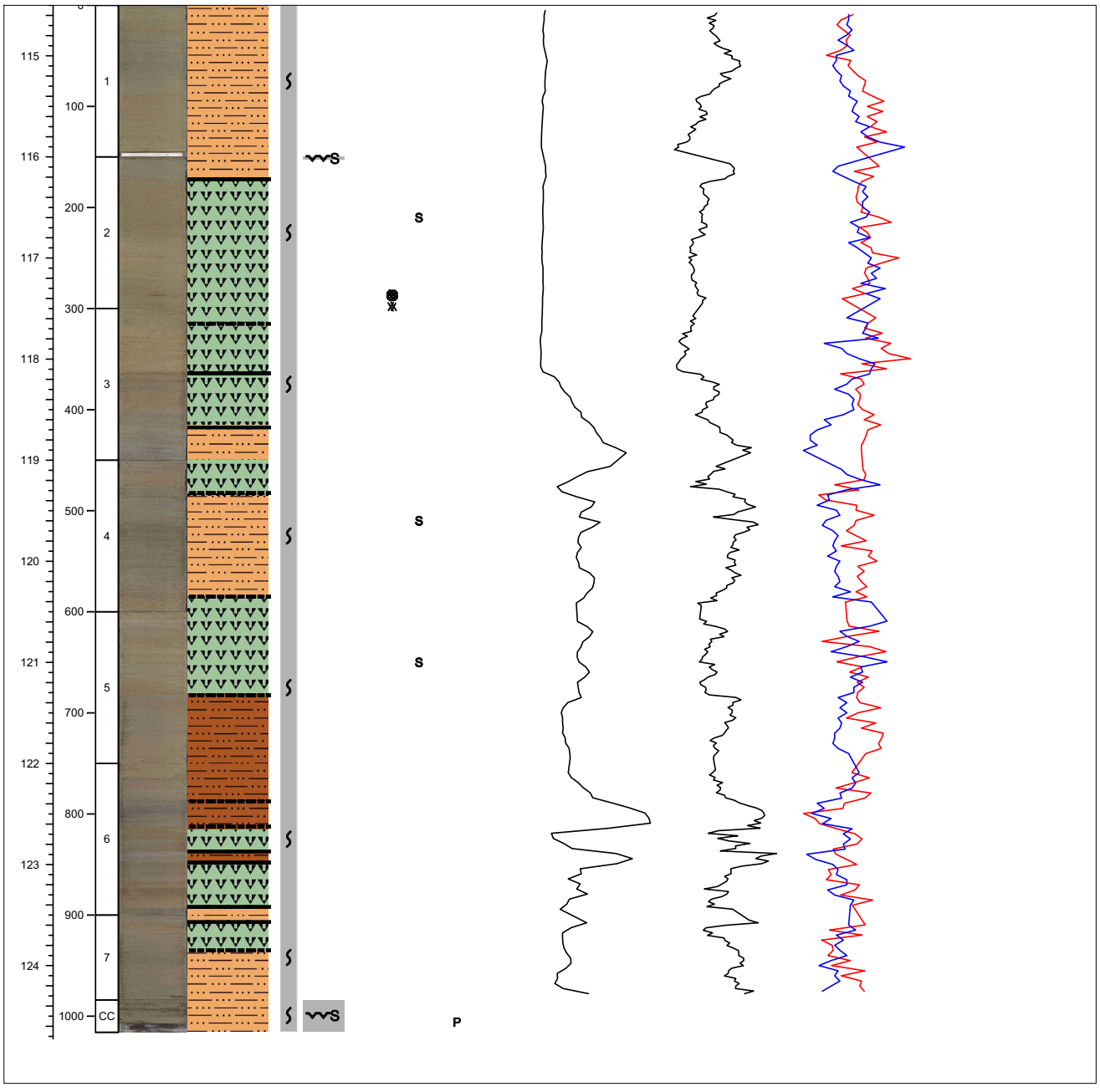
Two main lithologies alternate in 50 to ~100cm thick beds: dark gray diatom silty clay and faintly laminated olive gray nannofossil-rich diatom clay.



Core Photo

Hole 323-U1341C Core 14H, Interval 114.5-124.66m (CSF-A)

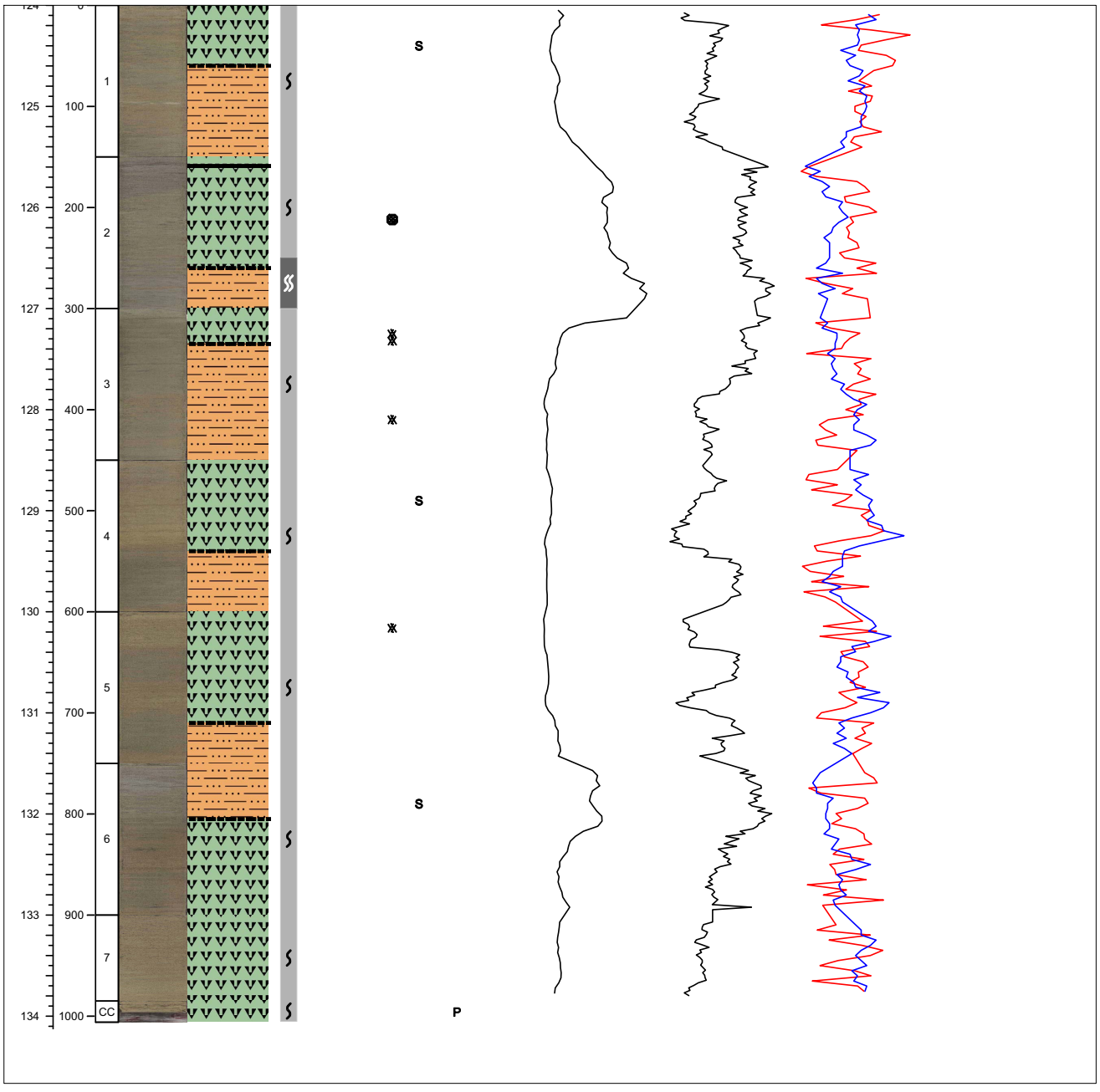
Major lithologies: Dark greenish gray diatom-rich silty clay; olive gray to olive diatom ooze, and very dark greenish gray to dark greenish gray diatom-rich clayey silt. Boundaries are both gradational and sharp and sometimes tilted between different colors. Bioturbation is slight and drilling disturbance is slight to absent throughout the core.



Core Photo

Hole 323-U1341C Core 15H, Interval 124.0-134.06m (CSF-A)

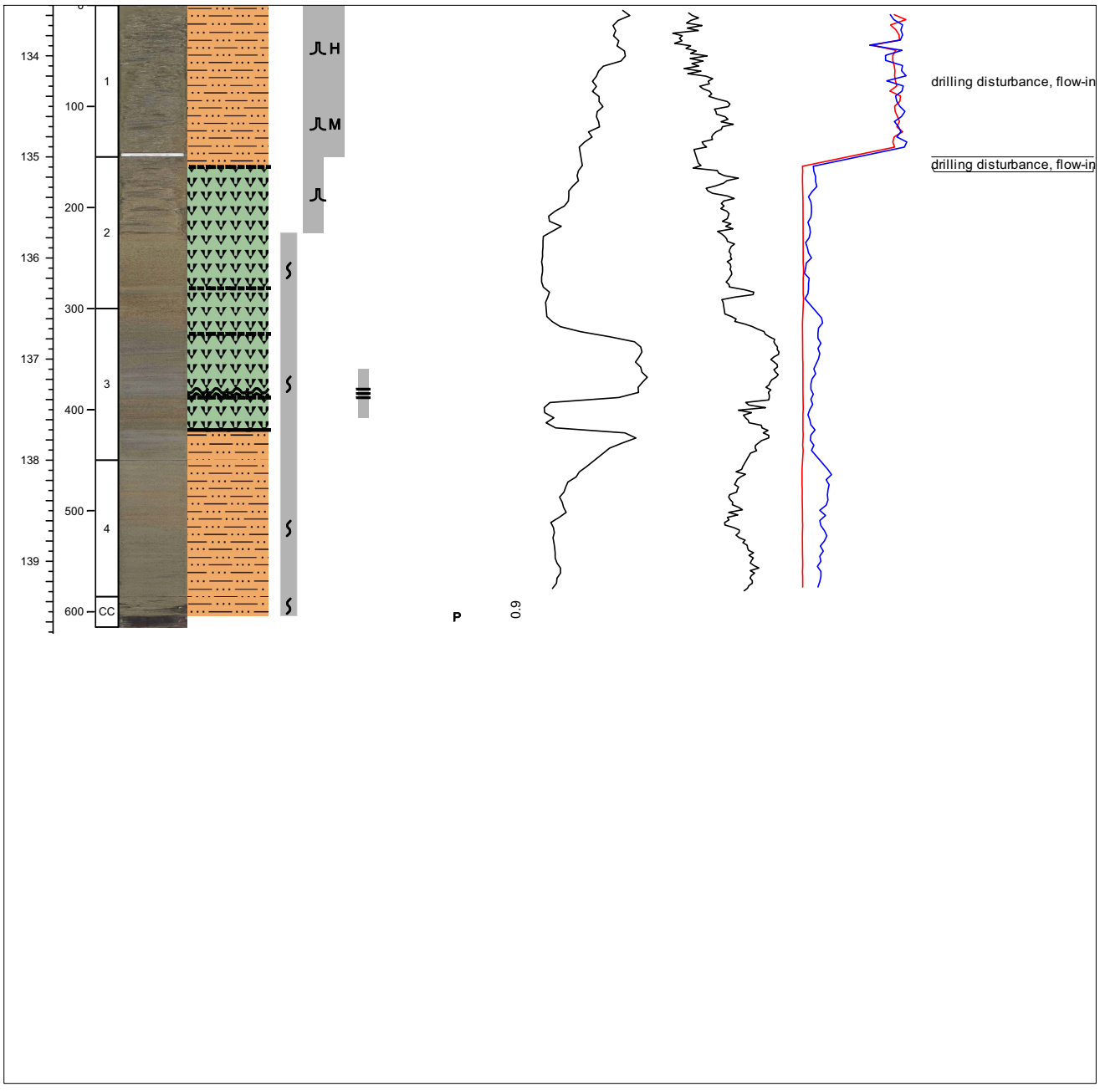
Major lithologies: Dark greenish gray diatom-rich clayey silt and very dark gray to olive gray diatom ooze. In general boundaries between colors are gradational. Bioturbation is slight to sometimes moderate. There is no drilling disturbance.



Core Photo

Hole 323-U1341C Core 16H, Interval 133.5-139.65m (CSF-A)

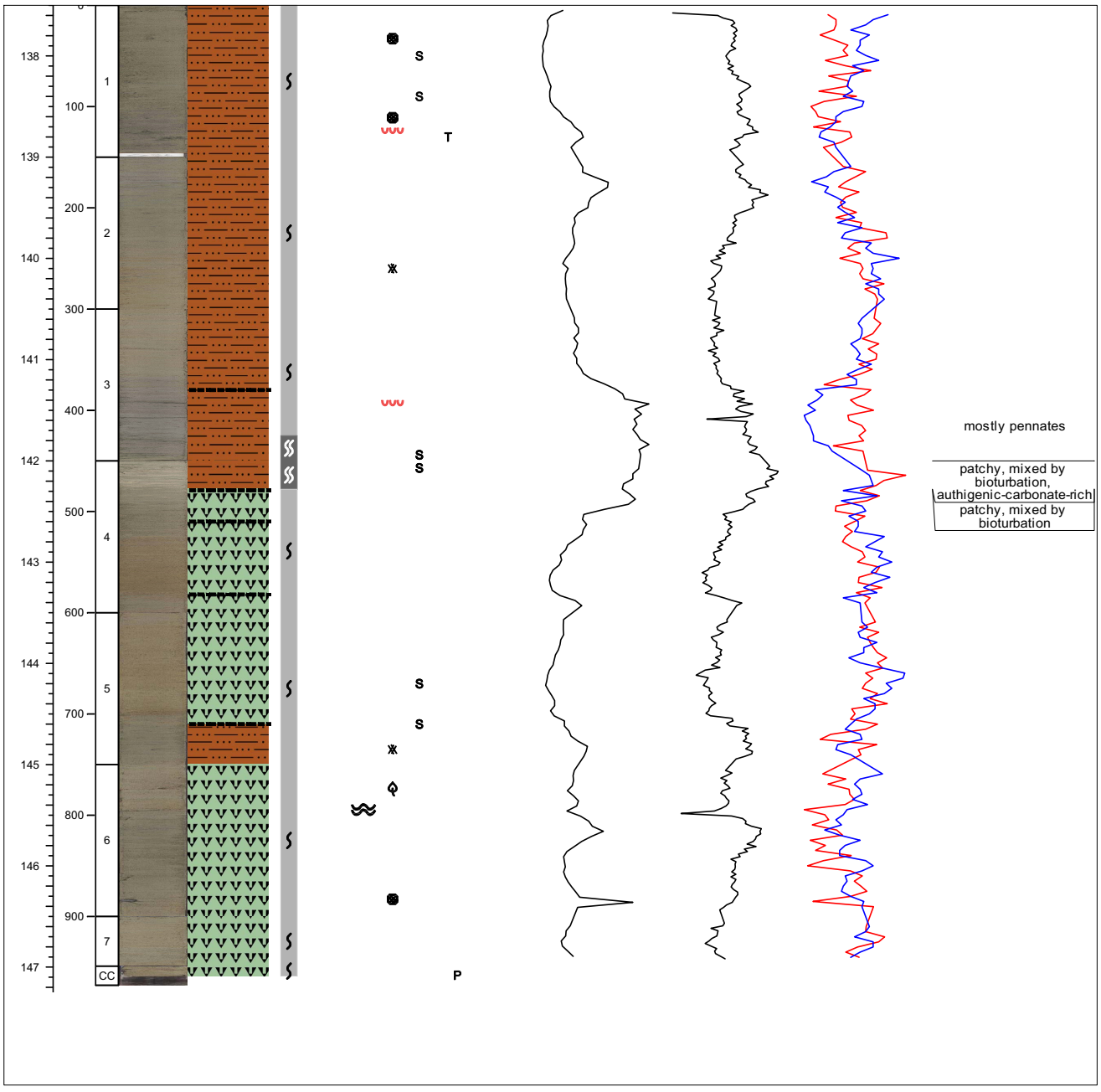
Major lithologies: Soft, gray to dark greenish gray to olive diatom ooze and diatom-rich clayey silt; both gradational and sharp, sometimes tilted boundaries between different colors; slight bioturbation; heavy to moderate drilling disturbance by flow-in in Sections 1 and 2



Core Photo

Hole 323-U1341C Core 17H, Interval 137.5-147.18m (CSF-A)

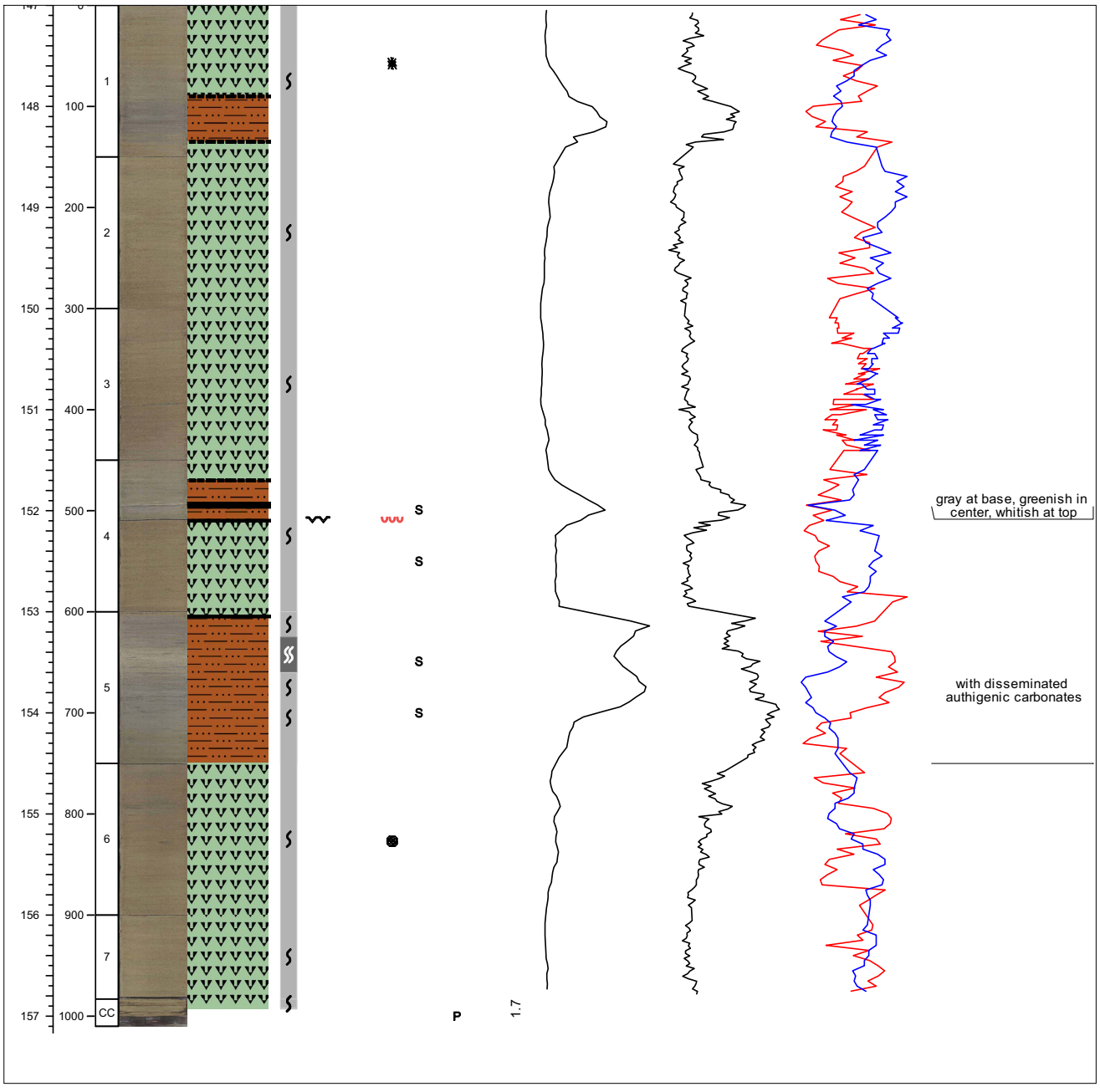
Major lithologies: Gray to dark greenish gray to olive diatom ooze and diatom-rich silty clay; gradational boundaries between different colors; lapilli layer in lower Section 1; authigenic-carbonate-rich layer at top of Section 4; mostly slight, sometimes moderate bioturbation; no drilling disturbance



Core Photo

Hole 323-U1341C Core 18H, Interval 147.0-157.1m (CSF-A)

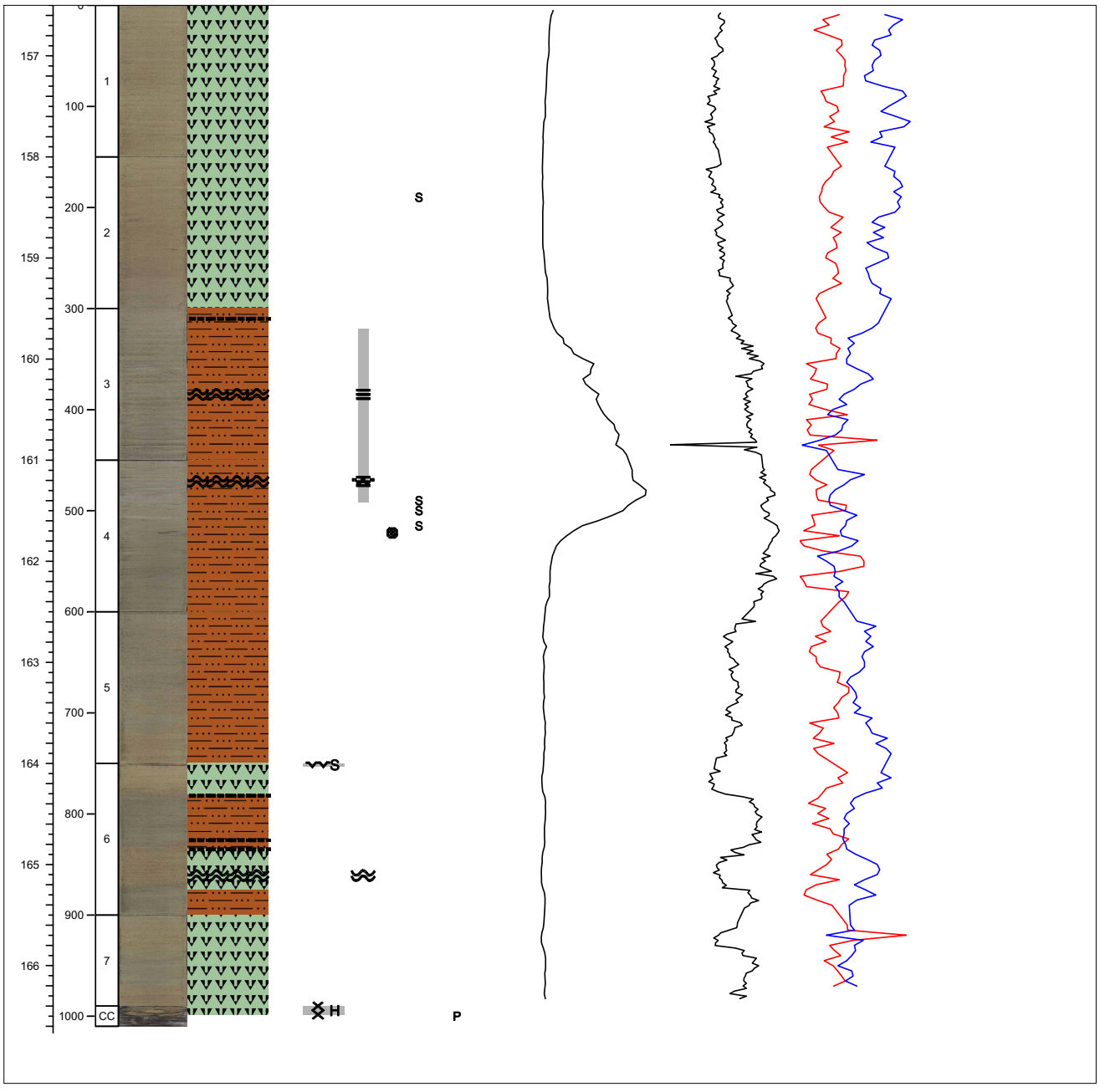
Major lithologies: Soft, gray to dark greenish gray to olive diatom ooze and diatom-rich silty clay; light fine ash layer in middle of Section 4; both gradational and sharp boundaries between different colors; mostly slight, sometimes moderate bioturbation; no driling disturbance apart from a crack in Section 4.



Core Photo

Hole 323-U1341C Core 19H, Interval 156.5-166.6m (CSF-A)

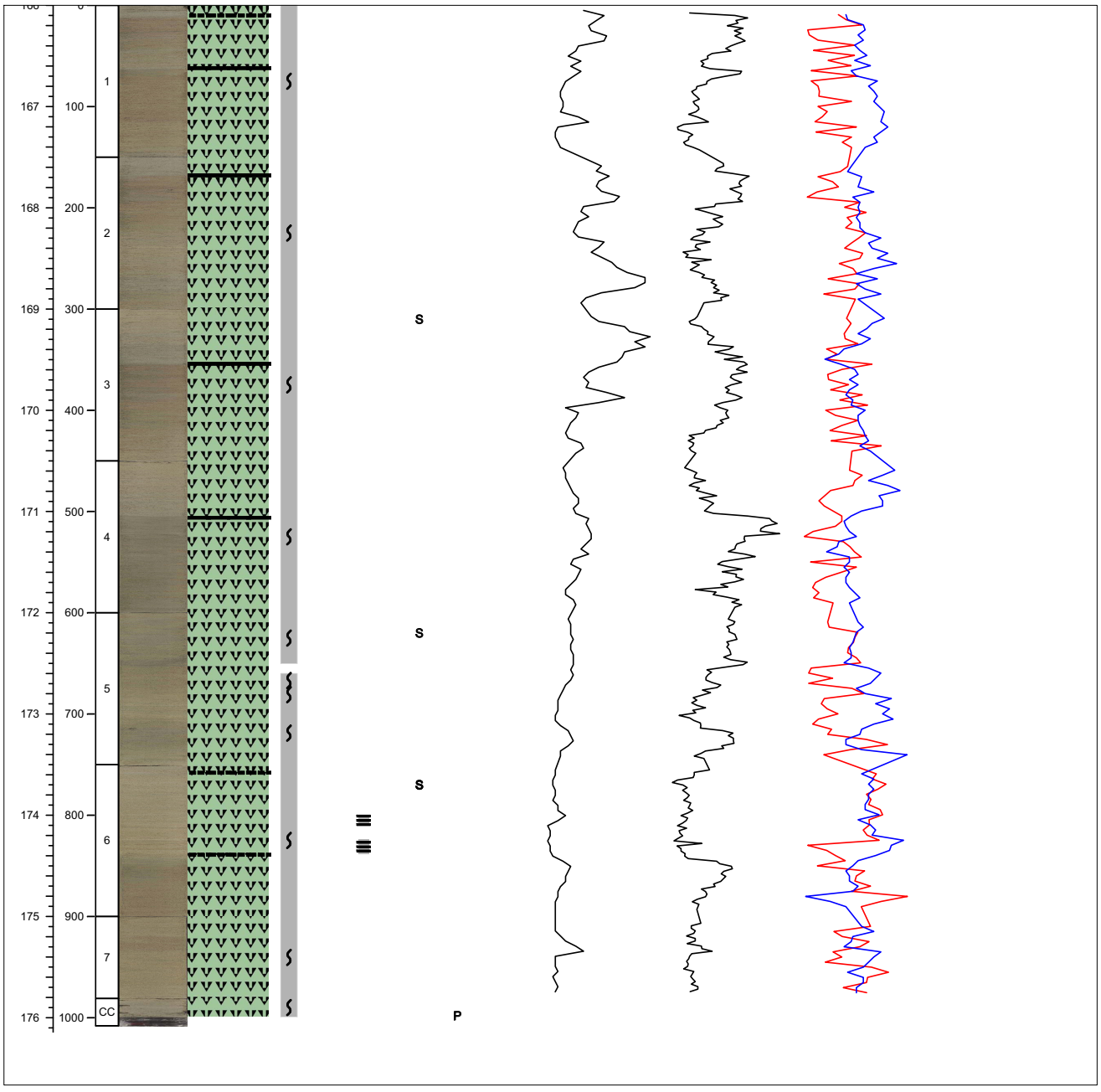
Major lithologies: Soft, dark grayish green to olive diatom ooze and diatom-rich silty clay; ash patches in most sections; gradational boundaries between different colors; undulated patchy thin bedding in Sections 3 and 4; slight bioturbation; no drilling disturbance apart from CC.



Core Photo

Hole 323-U1341C Core 20H, Interval 166.0-176.08m (CSF-A)

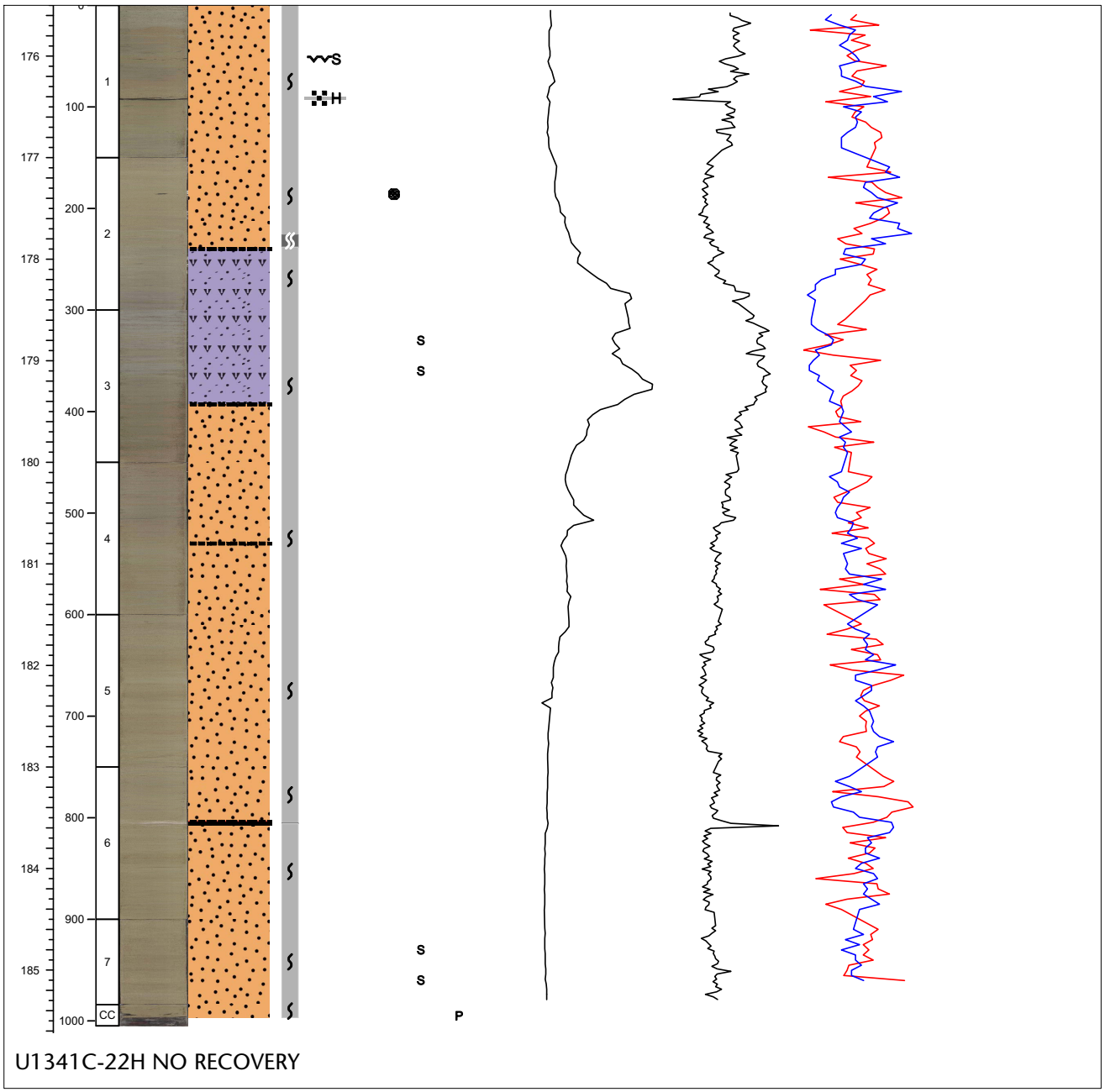
Main lithology: Diatom ooze. Alteration of dark greenish gray (10Y 4/1) and dark olive gray (5Y 4/2). Thin beds are visible at Section 6. Slightly bioturbated for the most of the core. No drilling disturbance.



Core Photo

Hole 323-U1341C Core 21H, Interval 175.5-185.55m (CSF-A)

Main lithology: Diatom-rich silt (5Y 4/2); Secondary lithology: Sponge spicule-bearing diatom silt (10Y 4/1).
Drilling disturbances in Section 1. Slight to moderate bioturbation present throughout.

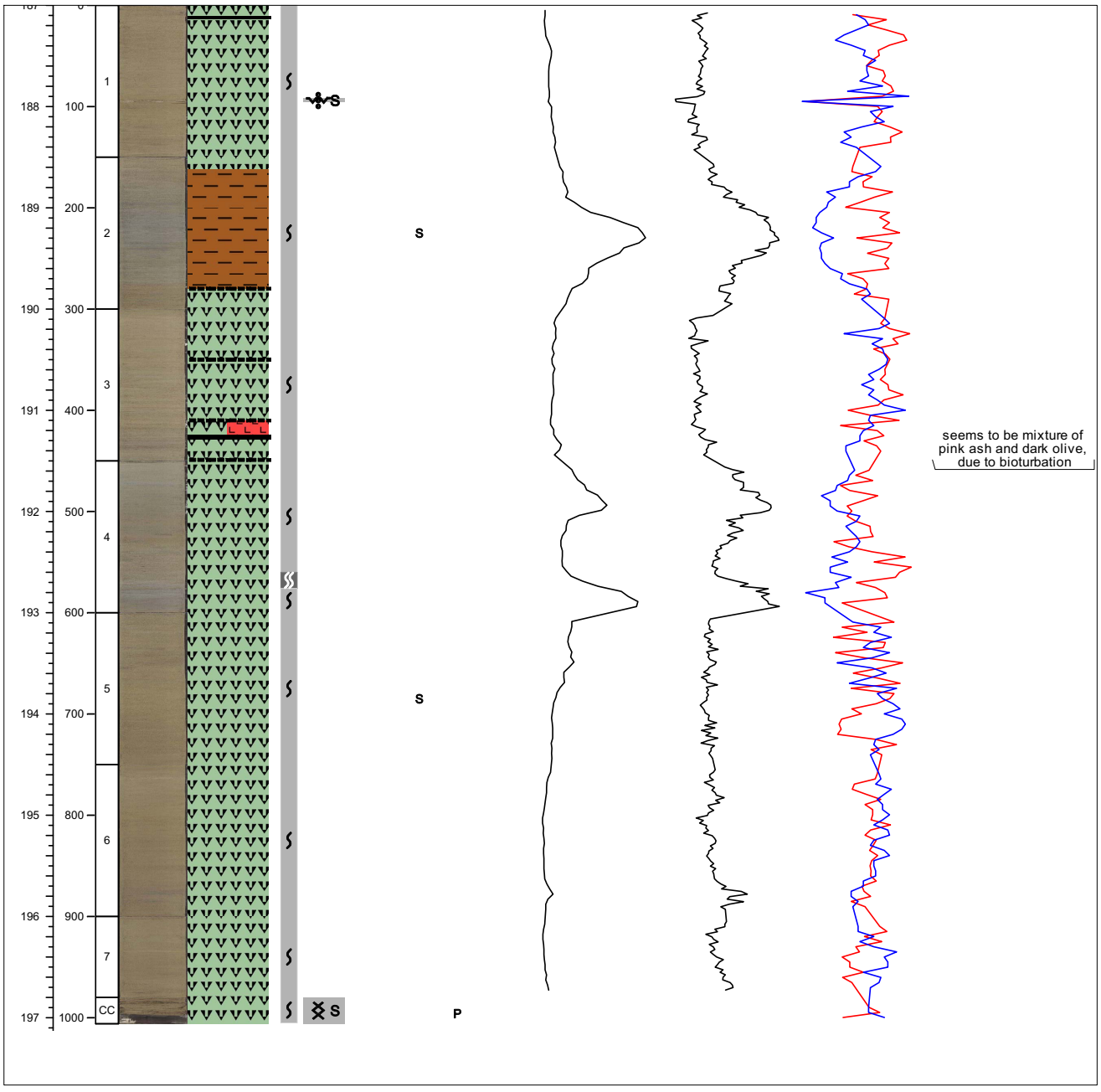


U1341C-22H NO RECOVERY

Core Photo

Hole 323-U1341C Core 23H, Interval 187.0-197.06m (CSF-A)

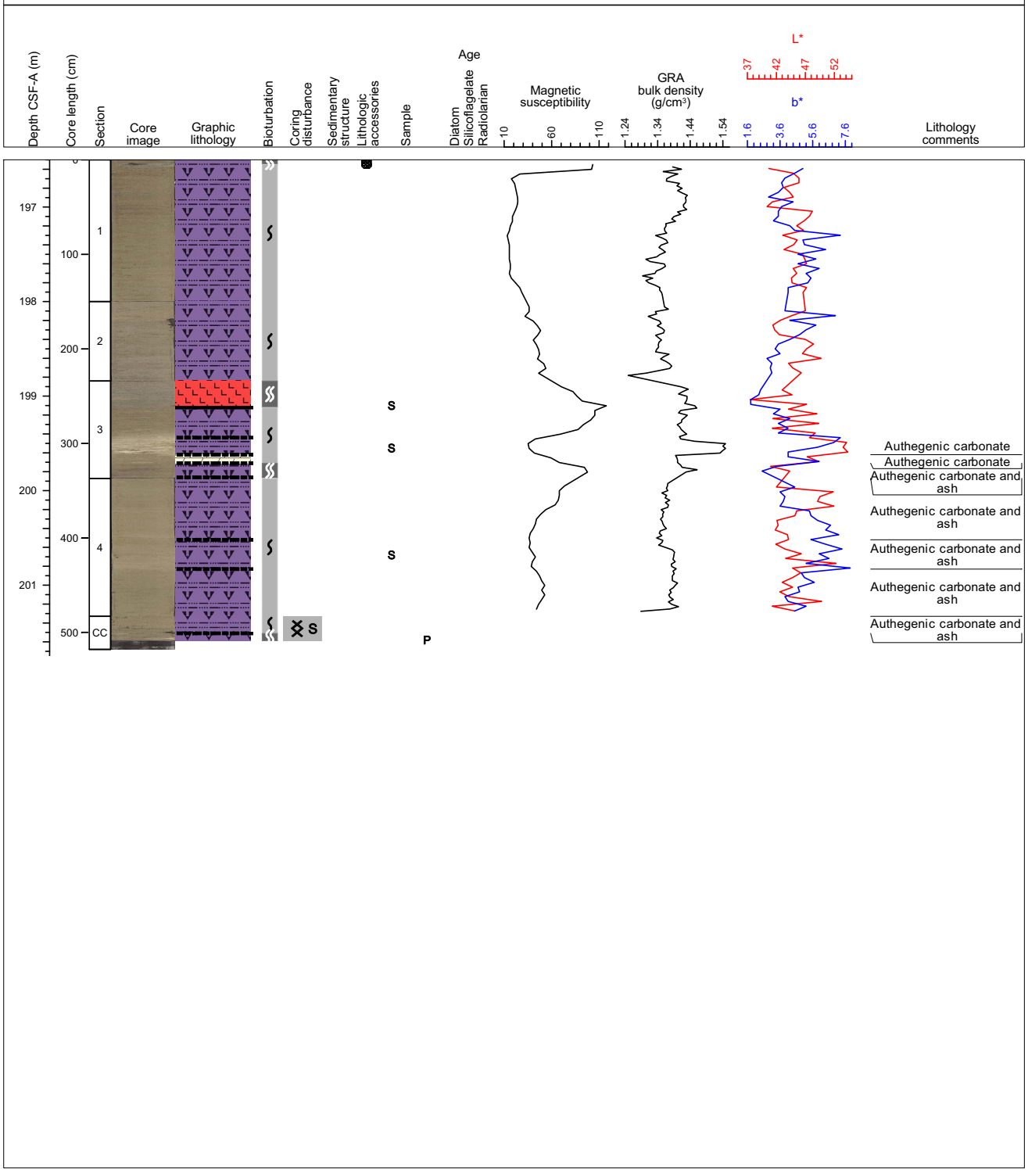
Main lithology: Diatom ooze. Secondary lithology: diatom-rich clay. Secondary lithology only appears in Section 2. Slightly bioturbated. Drilling disturbance occurs at Section 1.



Core Photo

Hole 323-U1341C Core 24H, Interval 196.5-201.68m (CSF-A)

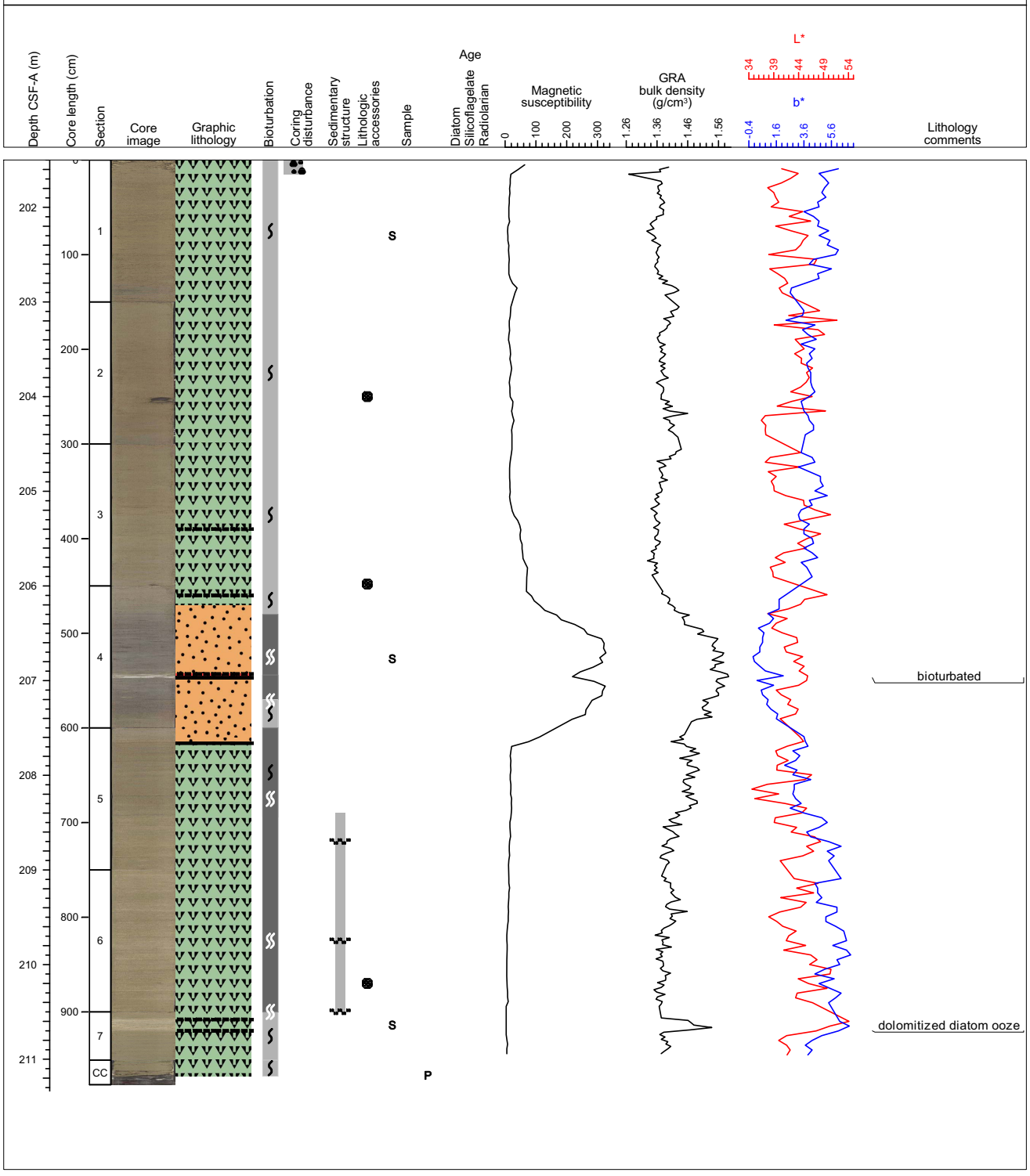
Major lithologies: Olive gray diatom ooze and olive gray to dark olive gray diatom silty clay separated by gradational boundaries. Secondary lithologies: Authigenic carbonate rich diatom silty clay and pale yellow dolostone in Section 3 through the end of the core. A thick black ash layer is present in Section 3. Bioturbation is slight to moderate throughout and mainly occurs as mottles. Fall-in is present in Section 1, otherwise, drilling disturbance is slight to absent.



Core Photo

Hole 323-U1341C Core 25H, Interval 201.5-211.27m (CSF-A)

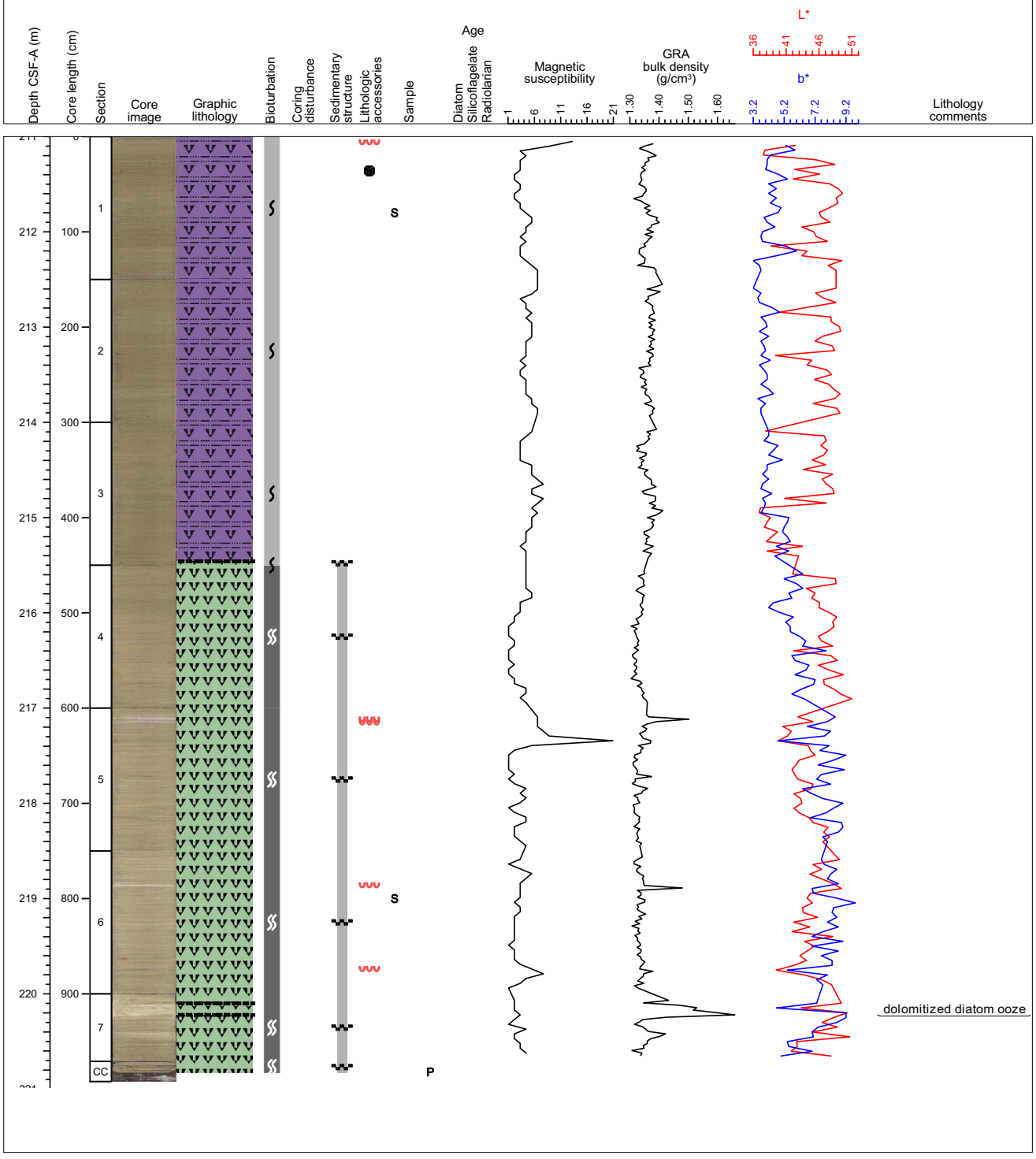
Major lithology is diatom ooze (dark olive 5Y 4/2). Secondary lithology is sponge spicule-bearing diatom-rich silt. Faint laminae are recognized between Section 5 (94cm) and Section 6. The secondary lithology occured between Section 4 (20cm) and Section 5 (16cm). Light gray ash occurs in Section 4 (93-97cm). An authigenic-carbonate-rich layer occured in Section 7 (8-20cm). Bioturbation is slight to moderate.



Core Photo

Hole 323-U1341C Core 26H, Interval 211.0-220.92m (CSF-A)

Major lithology is diatom ooze (olive 5Y 5/2) occuring in the depth from Section 4 to CC. Faint laminae was recognized in this lithology. Secondary lithology is diatom silty clay (olive gray 5Y 4/2). Dolomitized layer occured in Section 7 (10-22cm). Bioturbation is slight to moderate.



Core Photo

Hole 323-U1341C Core 27H, Interval 220.5-230.54m (CSF-A)

The main litholgies are olive gray diatom clay (sections 1 through 5) and sponge spicule-rich diatom ooze (cores 6 through CC).