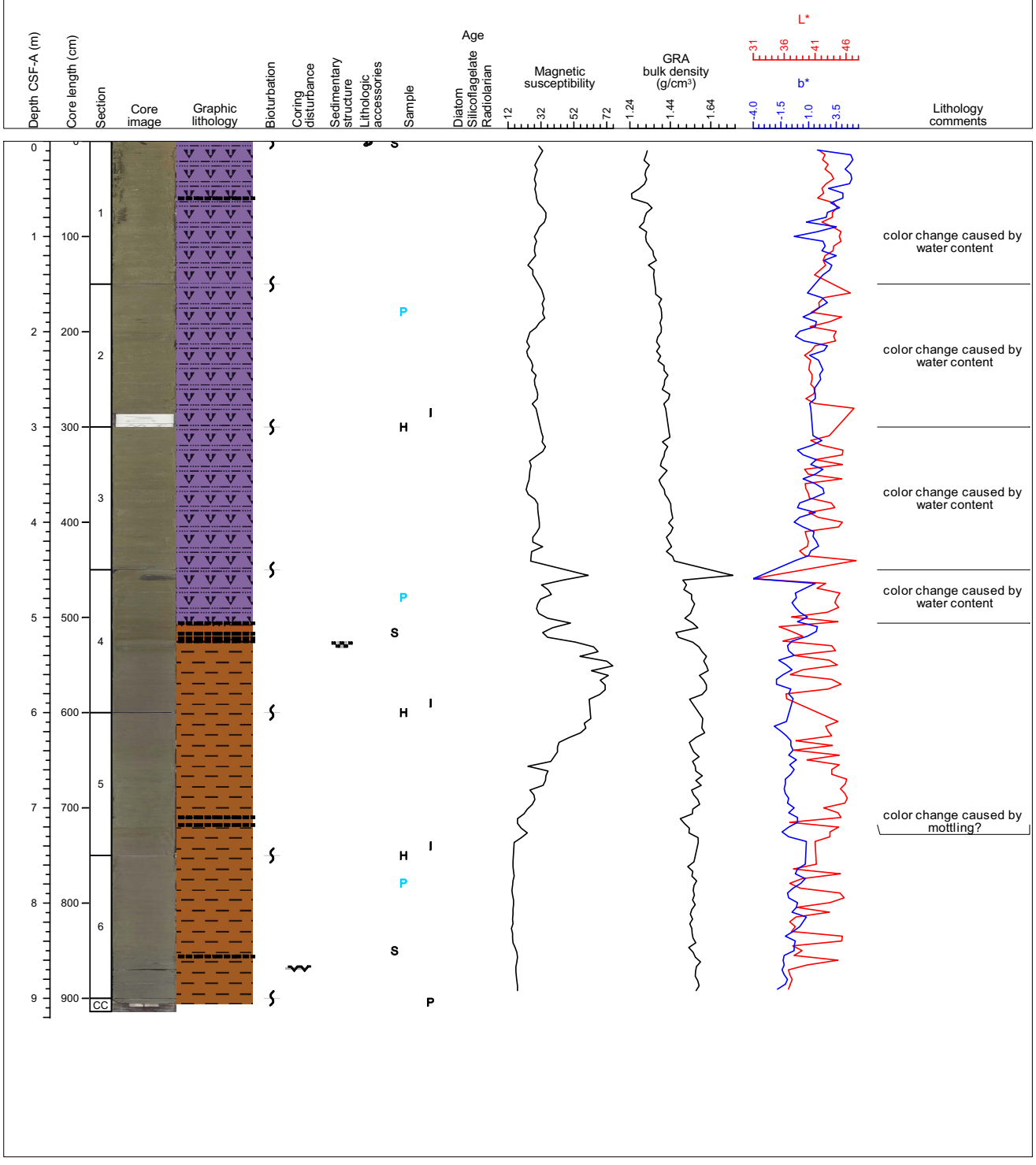
Core Photo

Hole 323-U1344A Core 1H, Interval 0.0-9.14m (CSF-A)

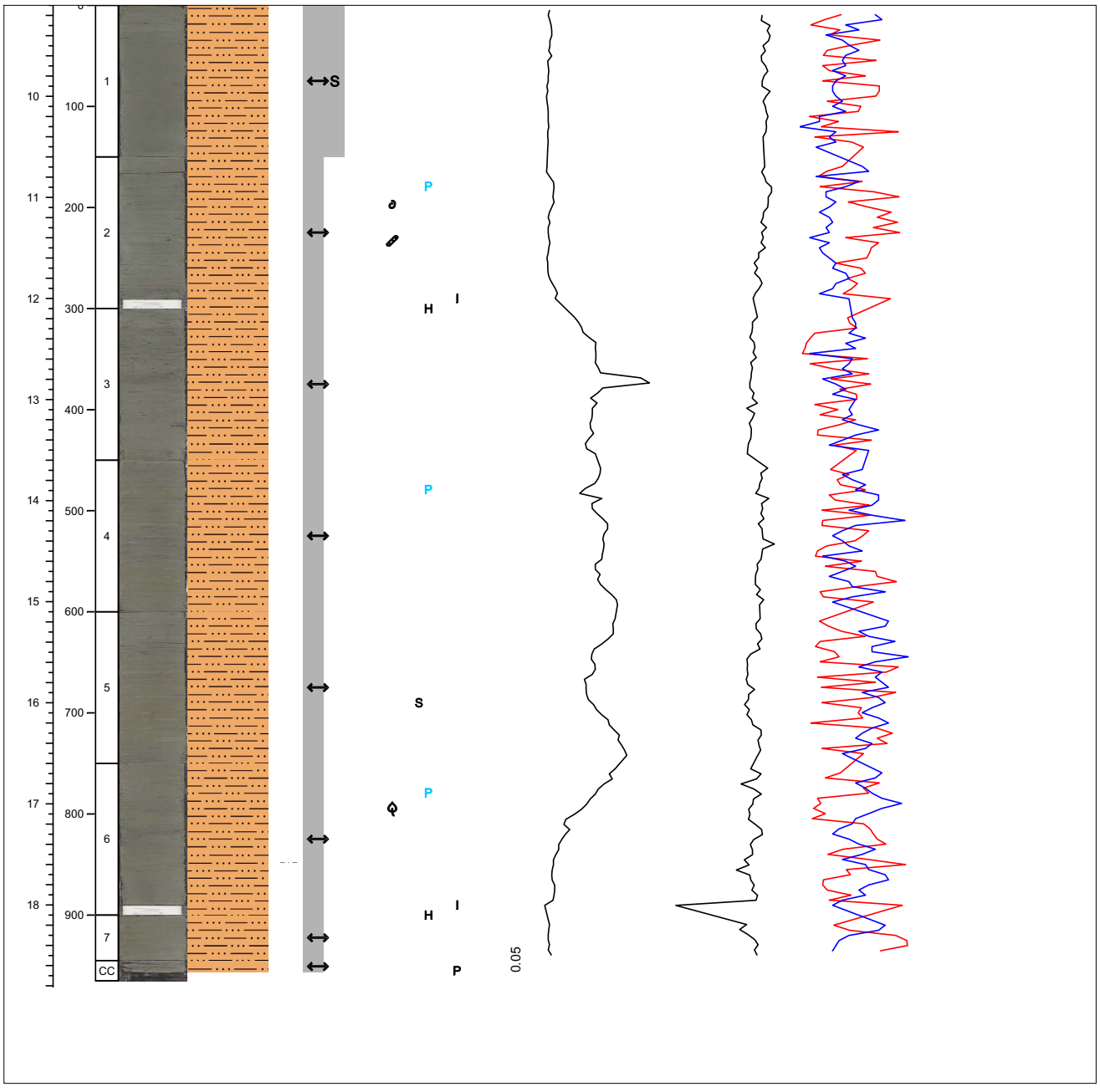
Major lithology is diatom silty clay (olive 5Y 4/3) from section 1 to Section 4. Secondary lithology is diatom-bearing clay (dark greenish gray 10Y 4/1 to dark gray 5Y 4/1) from Section 4 to Section 6. Faint lamination is recognized in Section 4 (72-75cm). Gray ash (5Y 3/1) occurred in Section 4 (72-75cm). Bioturbation is slight.



Core Photo

Hole 323-U1344A Core 2H, Interval 9.1-18.75m (CSF-A)

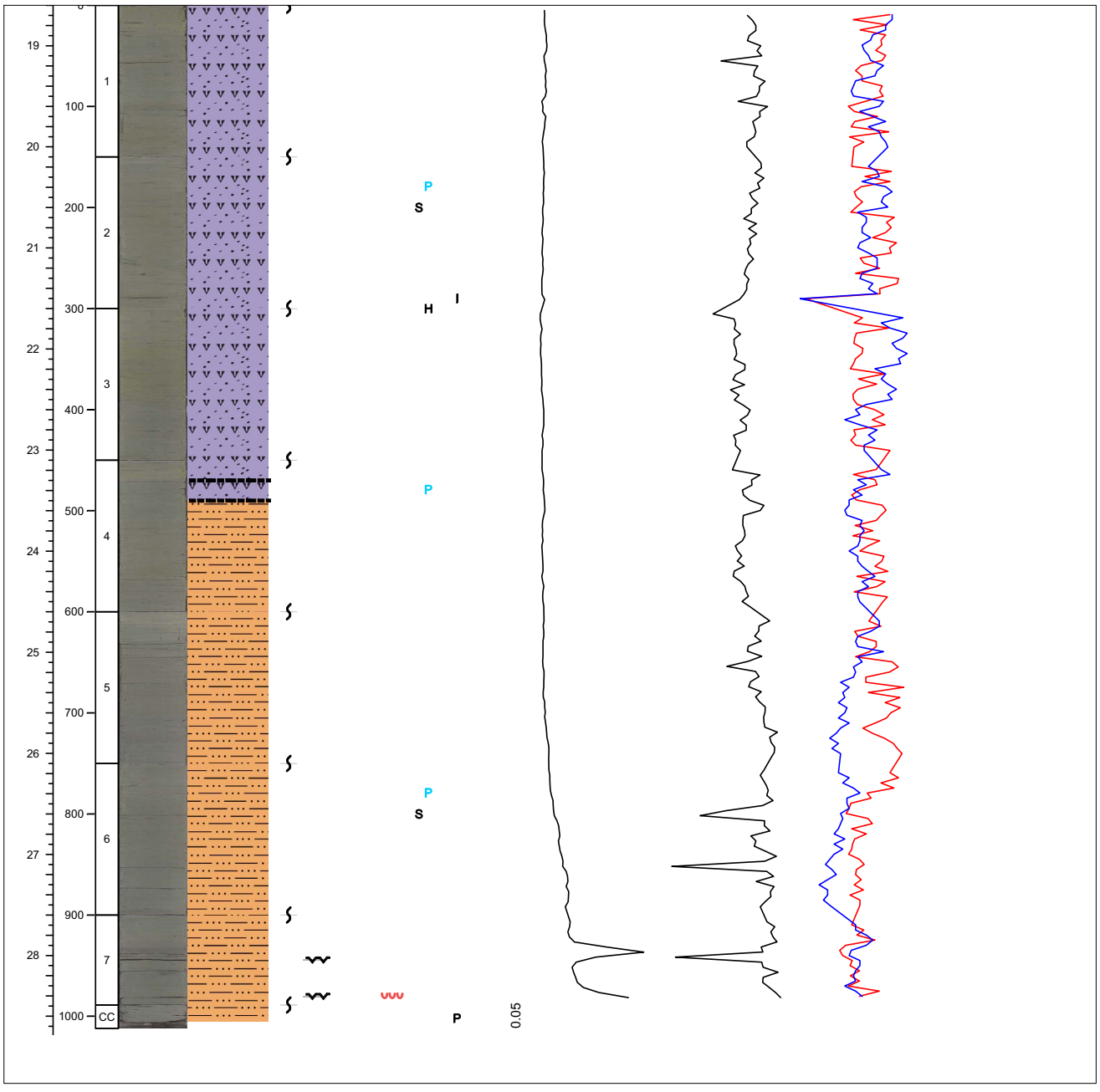
The lithology is greenish black diatom-rich clayey silt. The core shows slight expansion cracks and sulfide specks throughout. Worm tubes and wood fragments are also present.



Core Photo

Hole 323-U1344A Core 3H, Interval 18.6-28.72m (CSF-A)

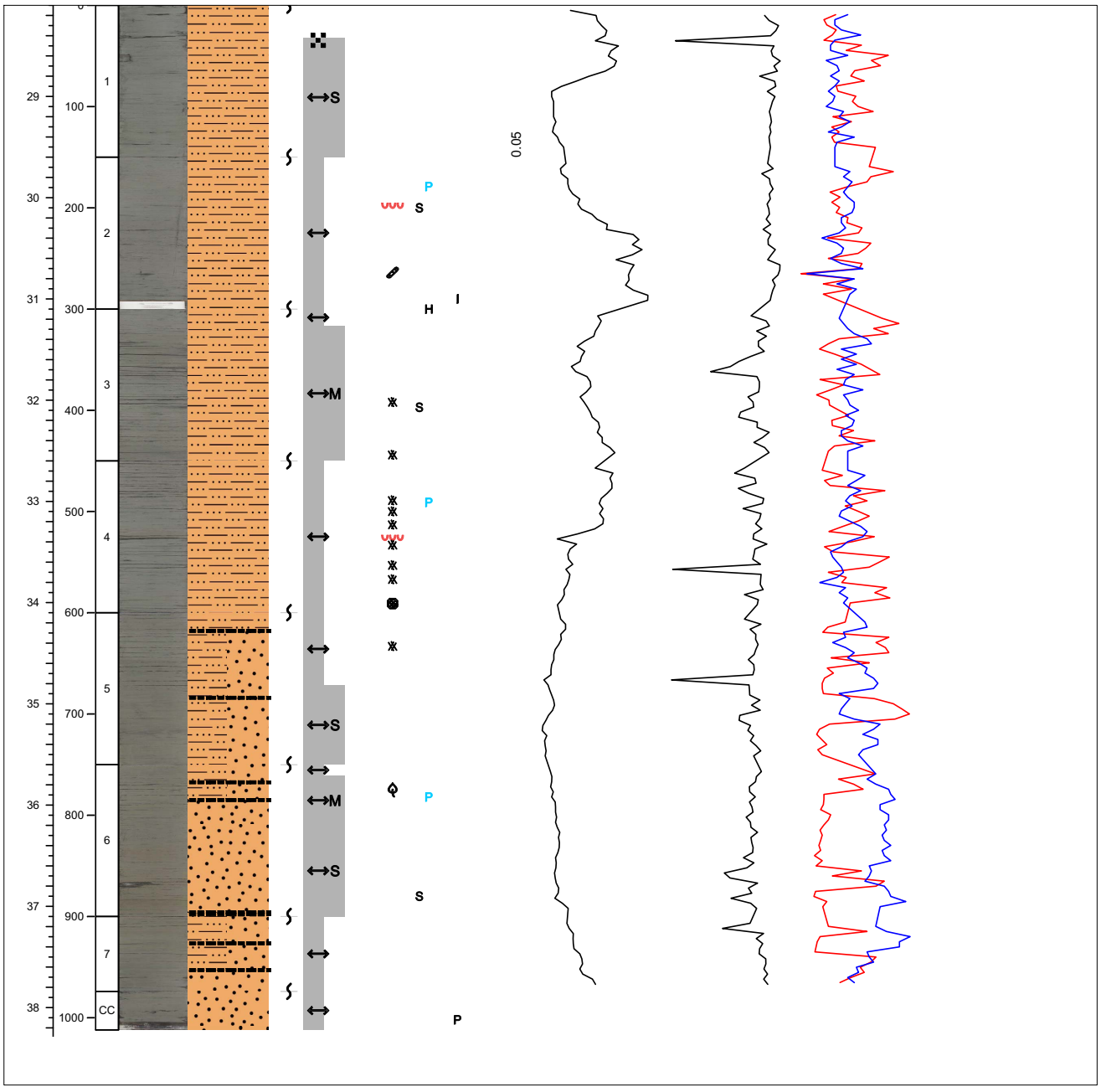
Major lithology: diatom silt (dark greenish gray 5GY 4/1) from Section 1 to Section 3; clayey silt (10Y 4/1) from Section 4 to CC. Gray ash layer occurred in Section 7 (80-81cm). Pyrite specks scattered through the core. Bioturbation is slight.



Core Photo

Hole 323-U1344A Core 4H, Interval 28.1-38.22m (CSF-A)

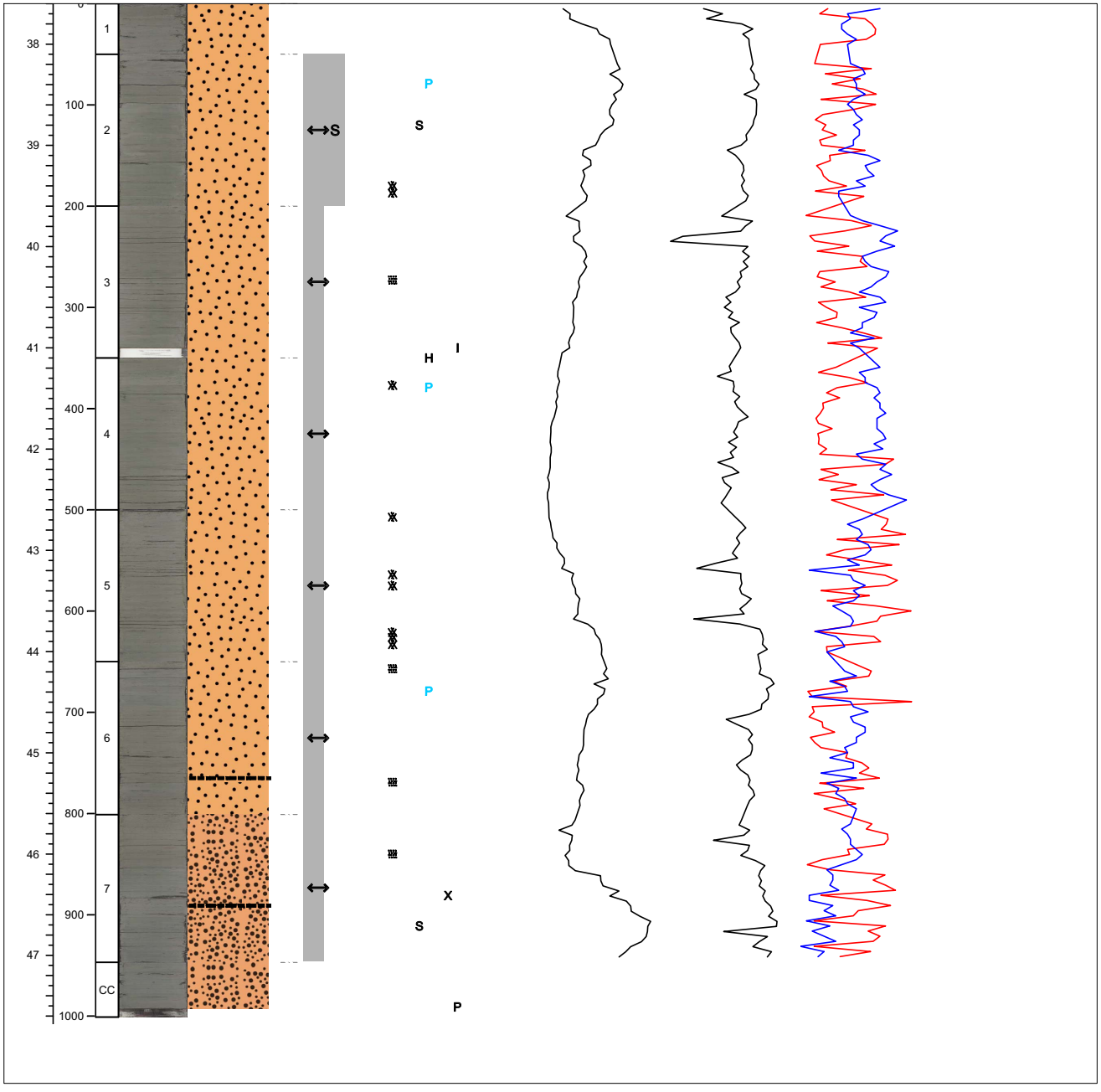
Major lithologies: dark greenish gray diatom-bearing clayey silt and very dark greenish gray diatom-rich silt grade into one another over the coarse of 100 cm. Two very thin dark ash layers or lenses are present. One large pebble was found in the diatom-rich silt. The core is mottled throughout with pyrite specks and streaks as well as green mottles. Wood and worm tubes are found. The worm tubes are filled with fine pyrite crystals. Gas expansion is slight to moderate throughout with small cracks.



Core Photo

Hole 323-U1344A Core 5H, Interval 37.6-47.61m (CSF-A)

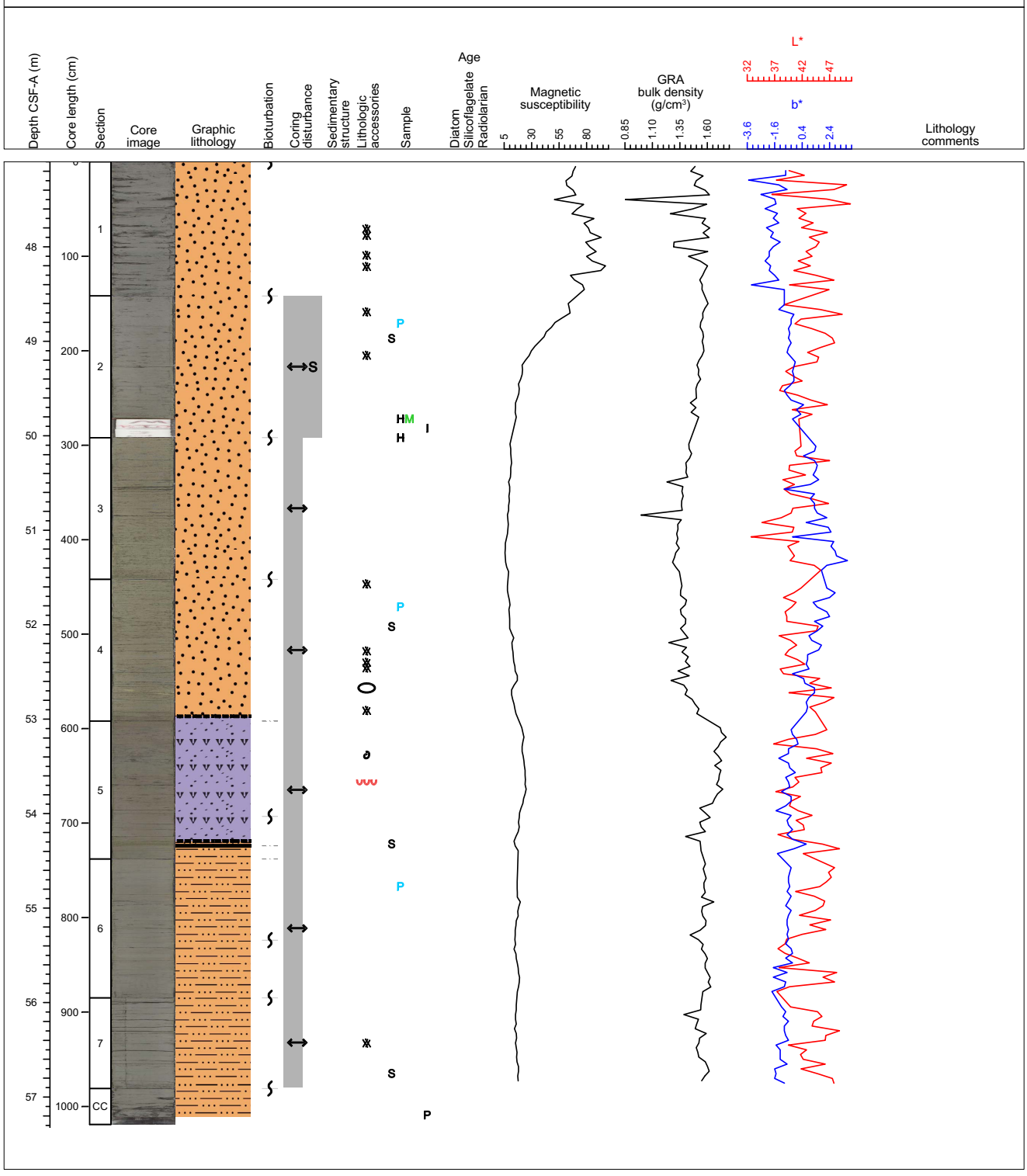
Major lithologies: Soft, dark gra to dark greenish gray diatom-rich silt and diatom-bearing sandy silt; blueish-greenish and pyrite mottles throughout most of the core; sponge spicule aggregates throughout most of the core; big burrows in sections 2, 6 and 7; sandy layers and mottling in sections 3, 5, 6 and 7; moderate bioturbation; slight gas expansion; moderate to heavy drilling disturbance in section 1 and CC



Core Photo

Hole 323-U1344A Core 6H, Interval 47.1-57.29m (CSF-A)

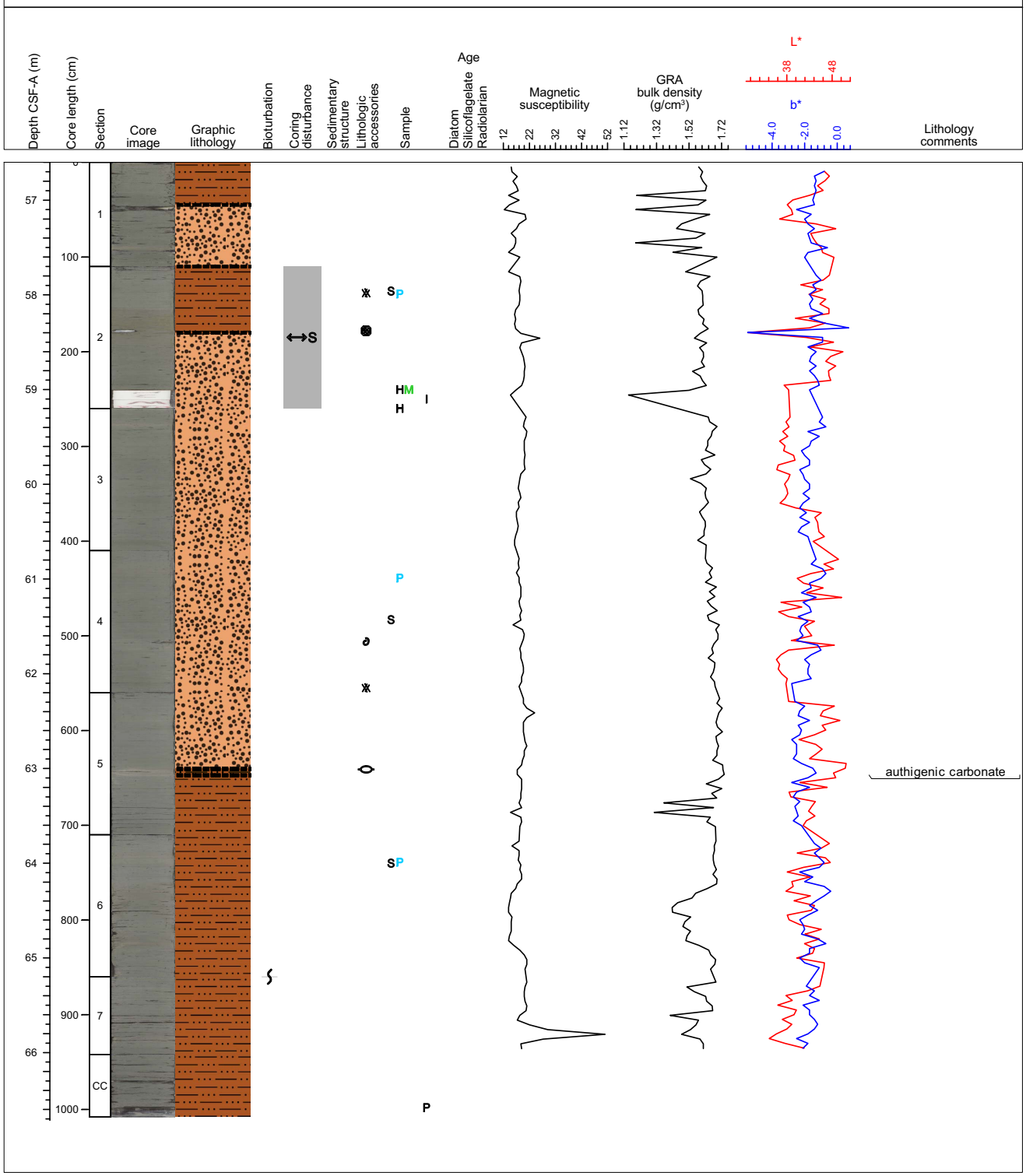
Major lithologies: Soft, dark gray to very dark greenish gray to dark greenish gray diatom silt, diatom-rich silt anddiatom-bearing clayey silt; foraminifer-rich diatom-rich clayey silt interval in lower section 5; sponge spicule aggregates in sections 1, 2, 4 and 7; sandy mottles in sections 2, 5, 6 and 7; authigenic carbonate patches in lower section 4; slight to moderate bioturbation; slight gas expansion, heavy drilling disturbance in section 1, moderate in CC



Core Photo

Hole 323-U1344A Core 7H, Interval 56.6-66.68m (CSF-A)

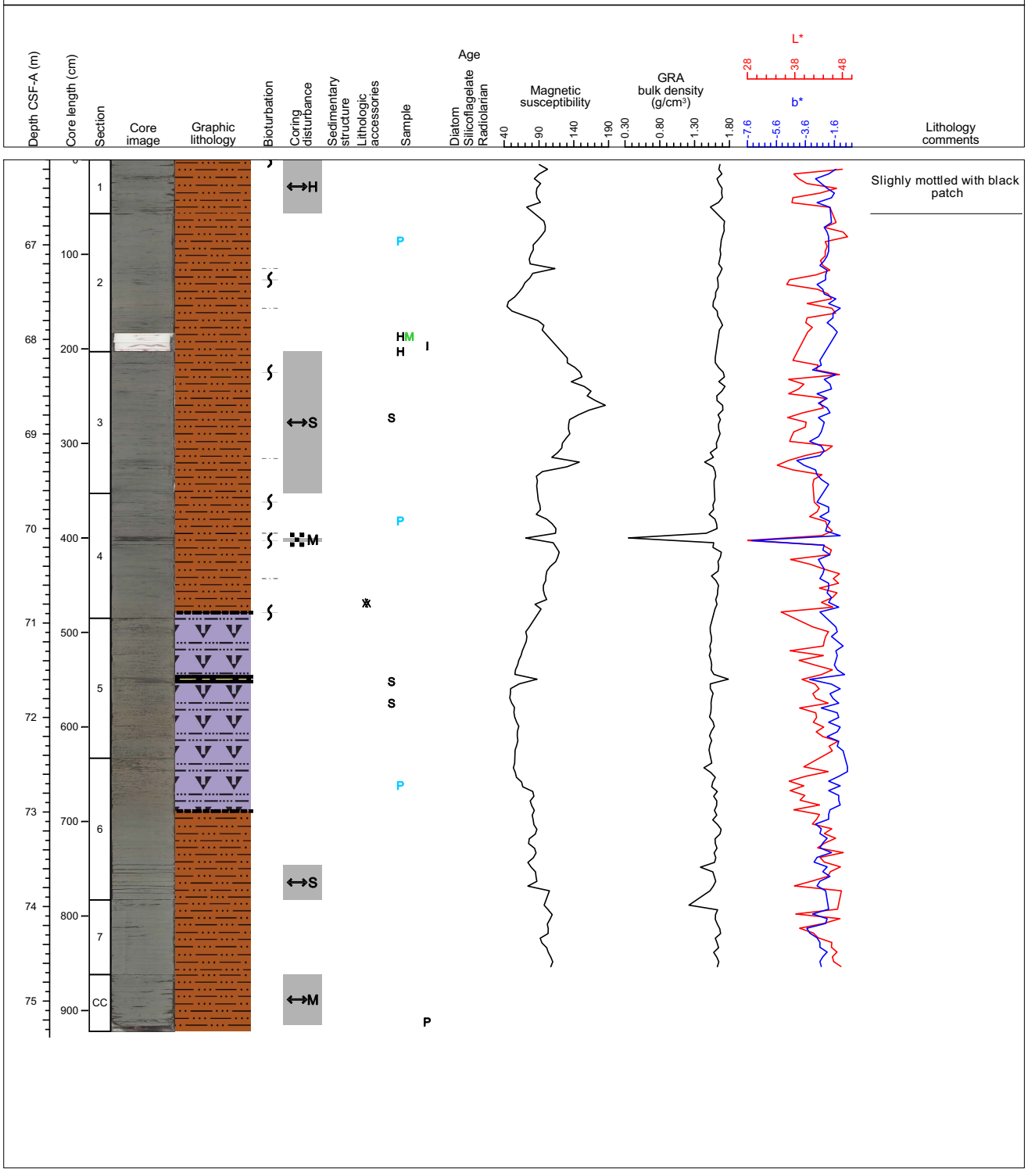
Soft, dark gray to dark greenish gray diatom-rich silty clay and diatom-bearing sandy silt; gradational boundaries between different colours; sandy mottles in sections 1, 3, 4 and CC: shell fragments in sectoin 4; coarse pebble in section 2; lighter diatom-rich silty clay interval with authigenic carbonate precipitation in section 7; moderate to slight bioturbation; slight gas expansion, sections 1 severely disturbed, CC moderately disturbed



Core Photo

Hole 323-U1344A Core 8H, Interval 66.1-75.32m (CSF-A)

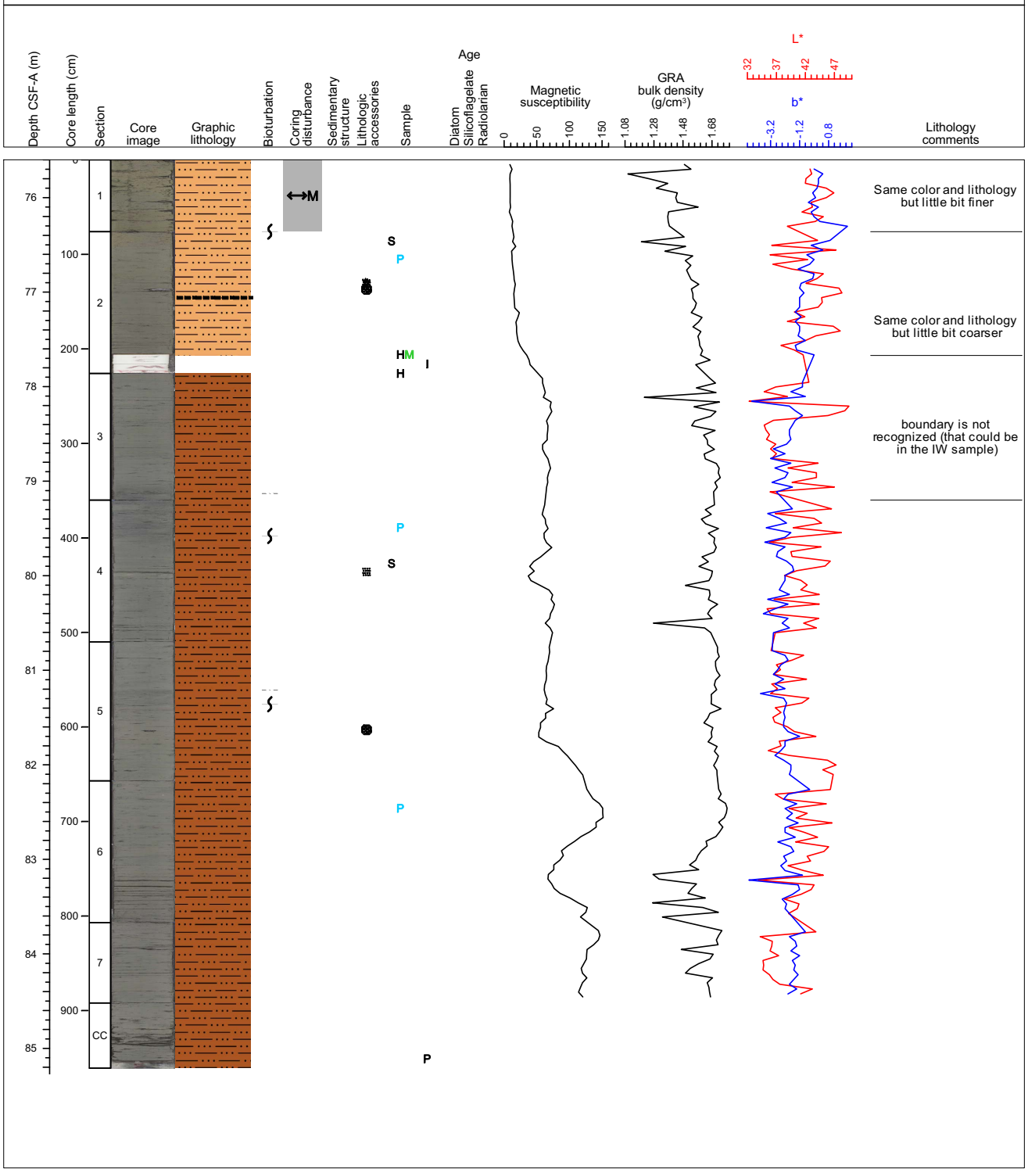
Main lithology (Sec. 1- Sec. 4 and Sec. 6 - CC) is dark greenish gray (10GY 4/1) diatom rich silty clay. Secondary lithology (Sec. 4 - Sec. 6) is dark greenish (5GY 4/1) diatom diatom clayey silt. Diatom bearing sand situated at Sec. 5. Black mottles (pyrite) occuurres throughout the core. First section of the core was pushed out the liner at the cat-walk due to gas expansion. This section was stuffed back afterwthile. Cracks due to gas expansion are visible throughout the core. Entire core was silightly to moderately bioturbated.



Core Photo

Hole 323-U1344A Core 9H, Interval 75.6-85.21m (CSF-A)

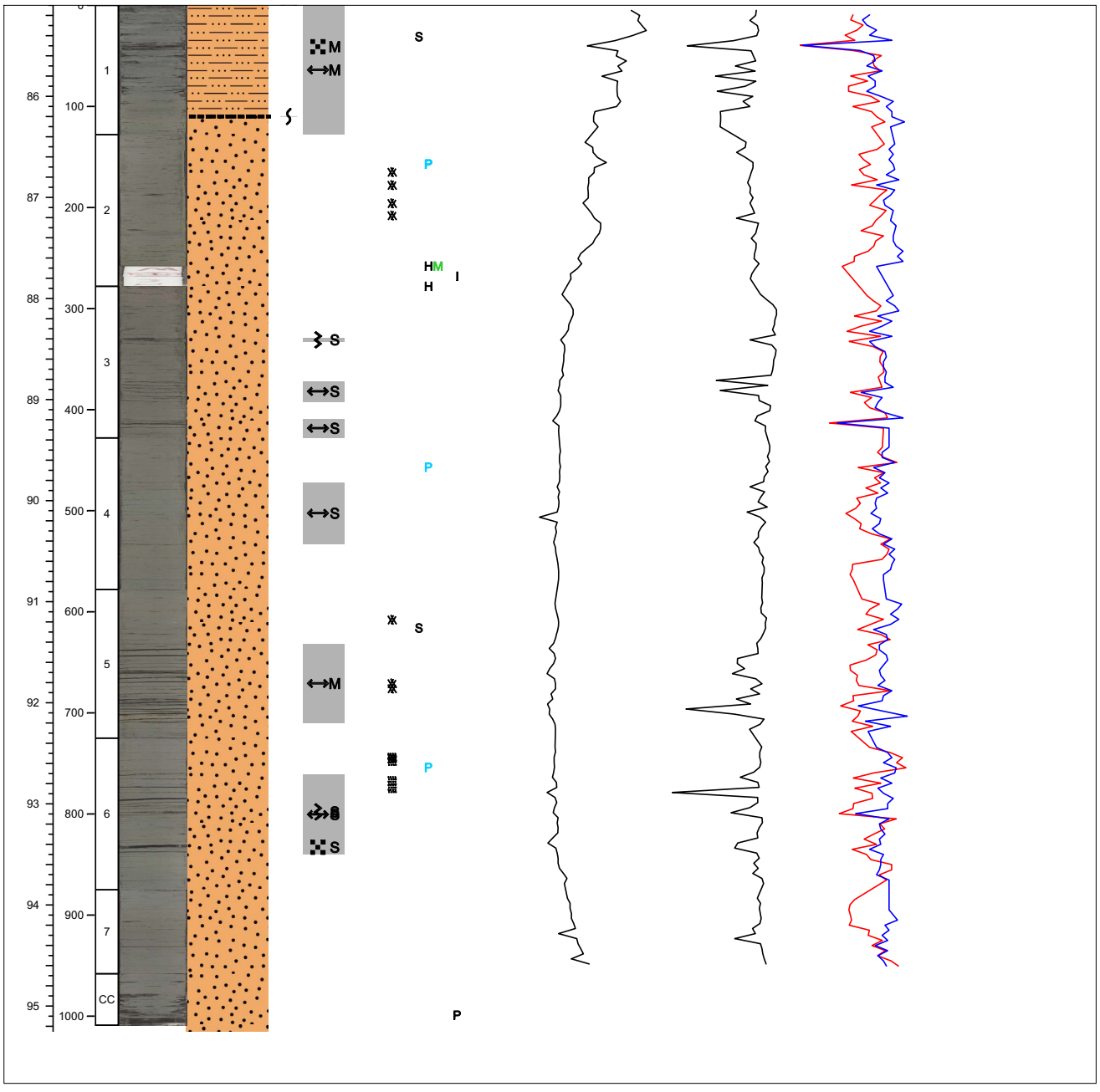
Main lithology: dark greenish gray silty clay. Secondary lithology: greenish gray diatom rich clayey silt. SS indicate only a small amount of diatom in sediment. Whole of the sec.1 is under influence of modrate gas expansion. It was pushed out the line r and being stuffed afterwthile. No aparent lithological boudary was recognized.



Core Photo

Hole 323-U1344A Core 10H, Interval 85.1-95.19m (CSF-A)

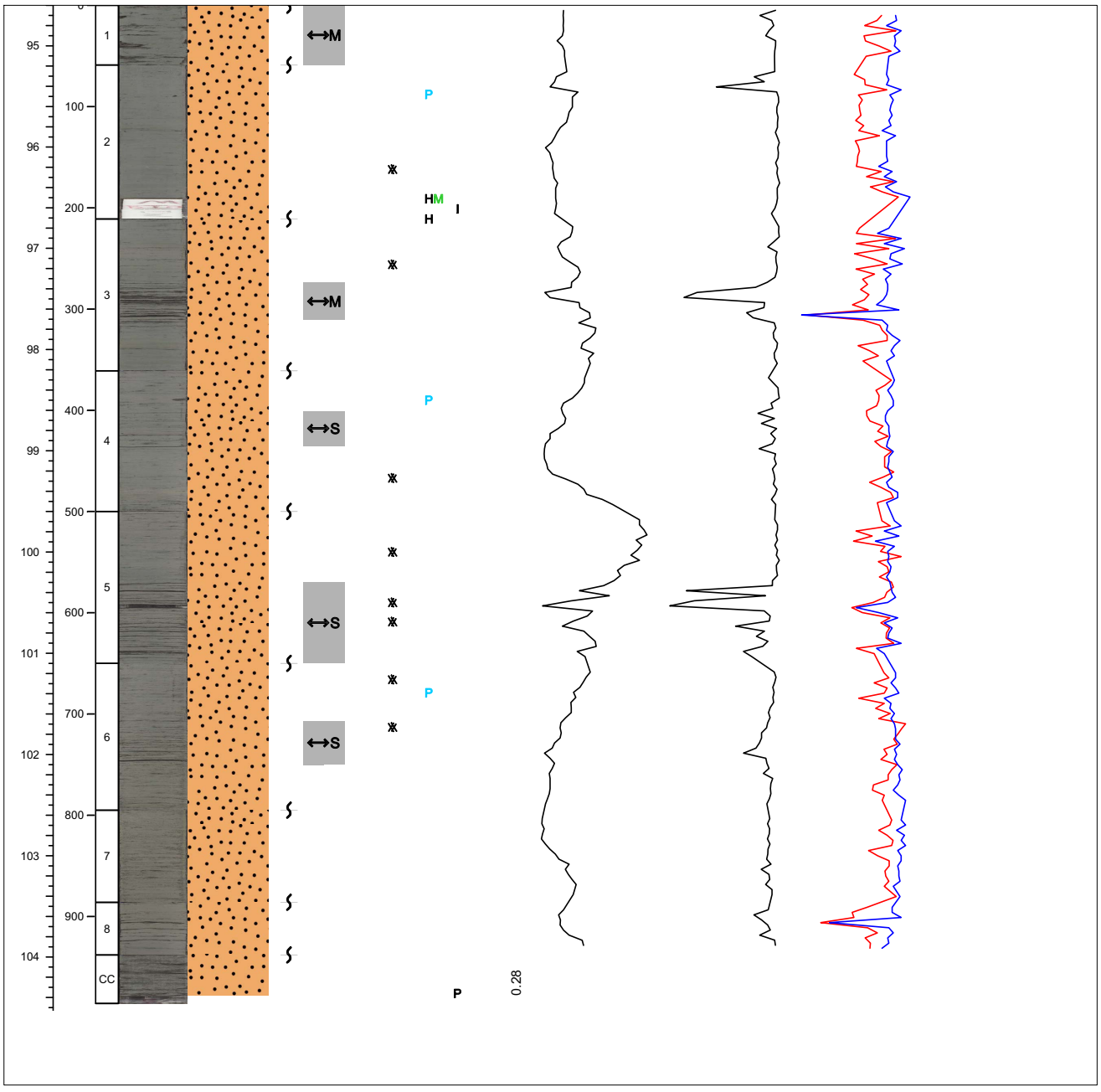
Main lithology is greenish gray diatom-rich silt (Sec. 2- CC). Secondary lithology is dark gray diatom rich clayey silt (Sec.1). Slightly bioturbated (mottled) throughout the core. Gas expansion at Sec. 1 and 3-6.



Core Photo

Hole 323-U1344A Core 11H, Interval 94.6-104.46m (CSF-A)

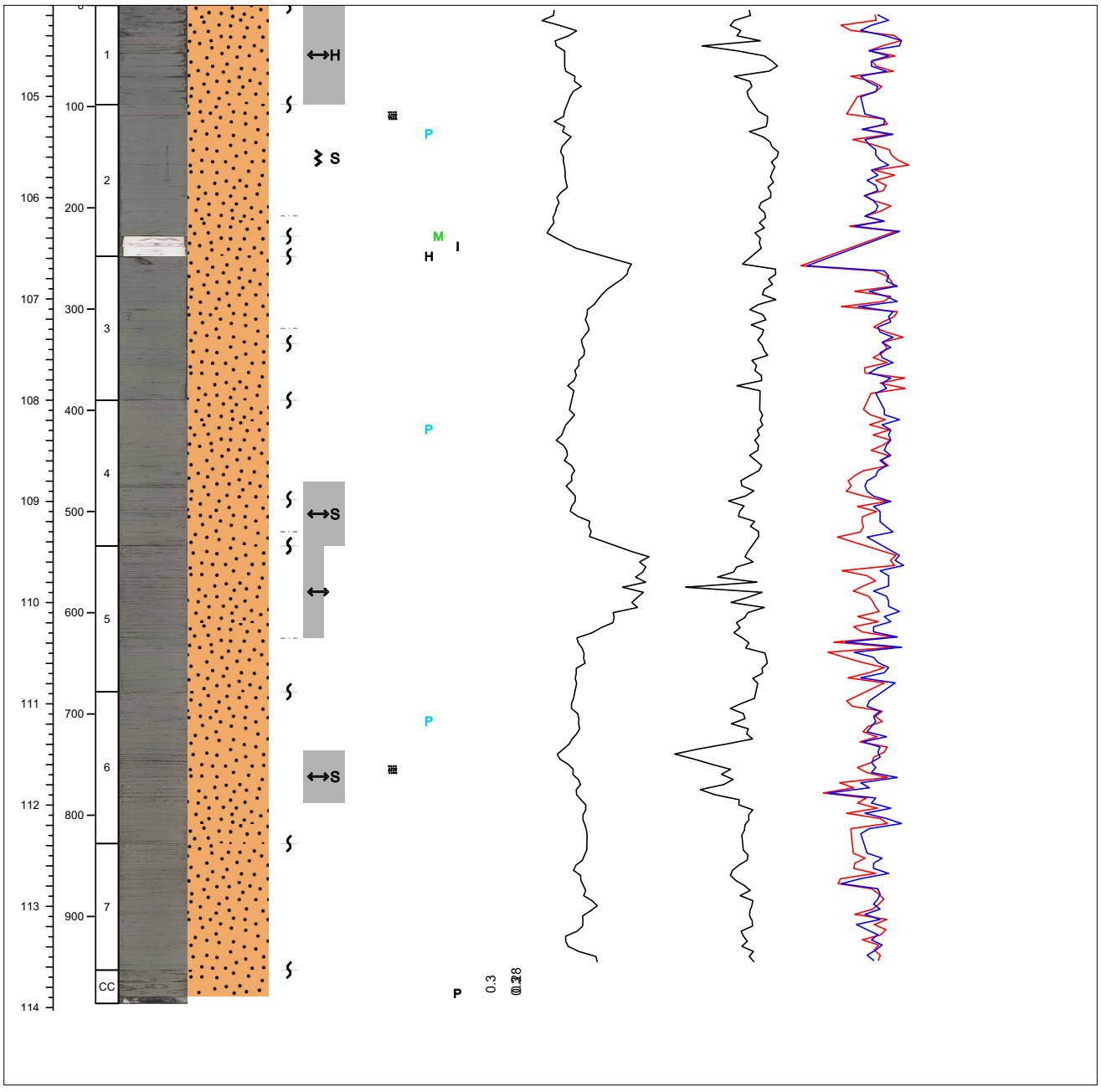
Main lithology: Greenish gray diatom silt. Cracks and voids due to gas expansion are aparent throughout the core. Slightly bioturbated.



Core Photo

Hole 323-U1344A Core 12H, Interval 104.1-113.96m (CSF-A)

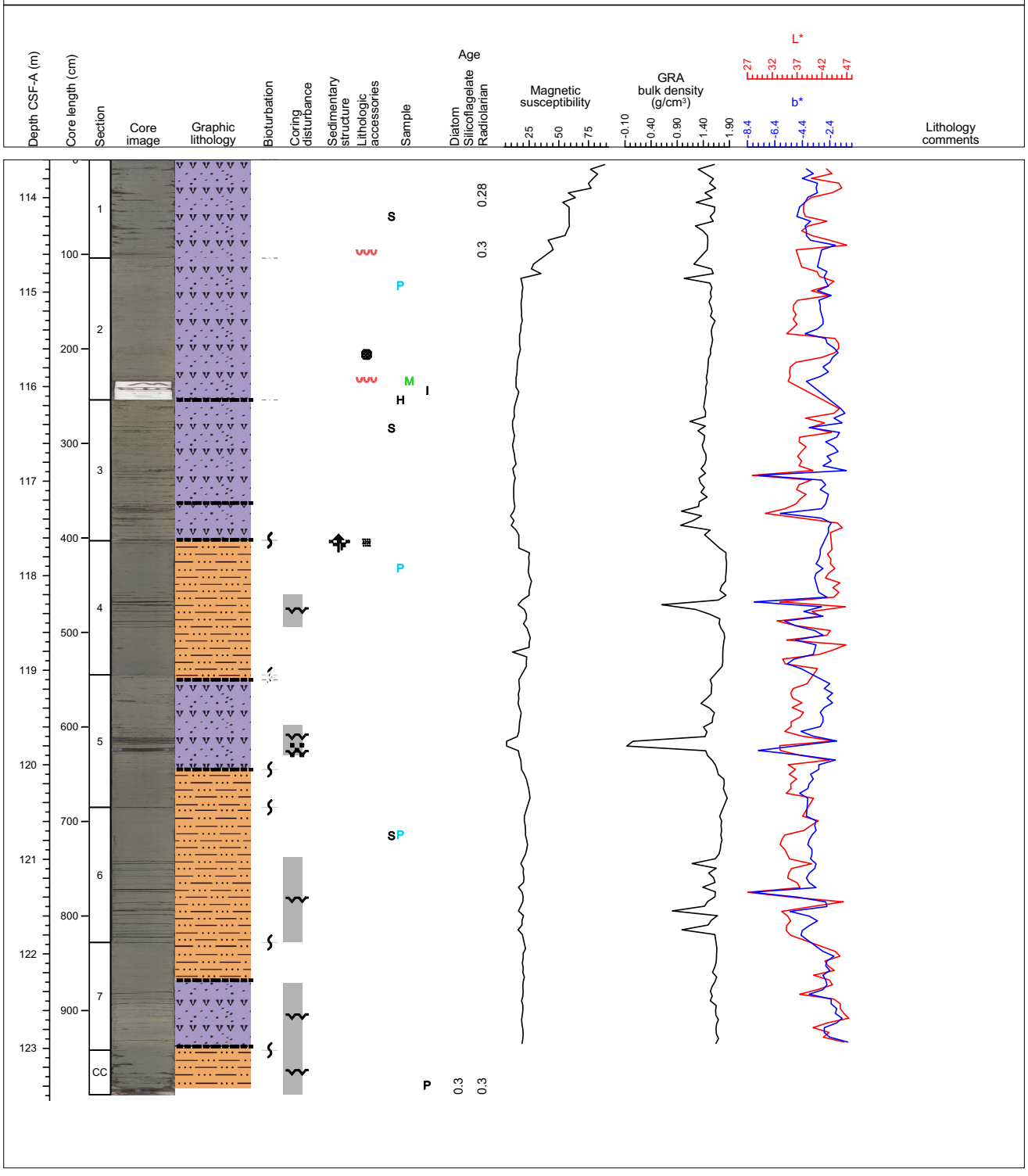
Main lithology: greenish gray diatom silt. Sandy patch and layer occurres thoroughout the core. Slightly to moderately bioturbated.



Core Photo

Hole 323-U1344A Core 13H, Interval 113.6-123.49m (CSF-A)

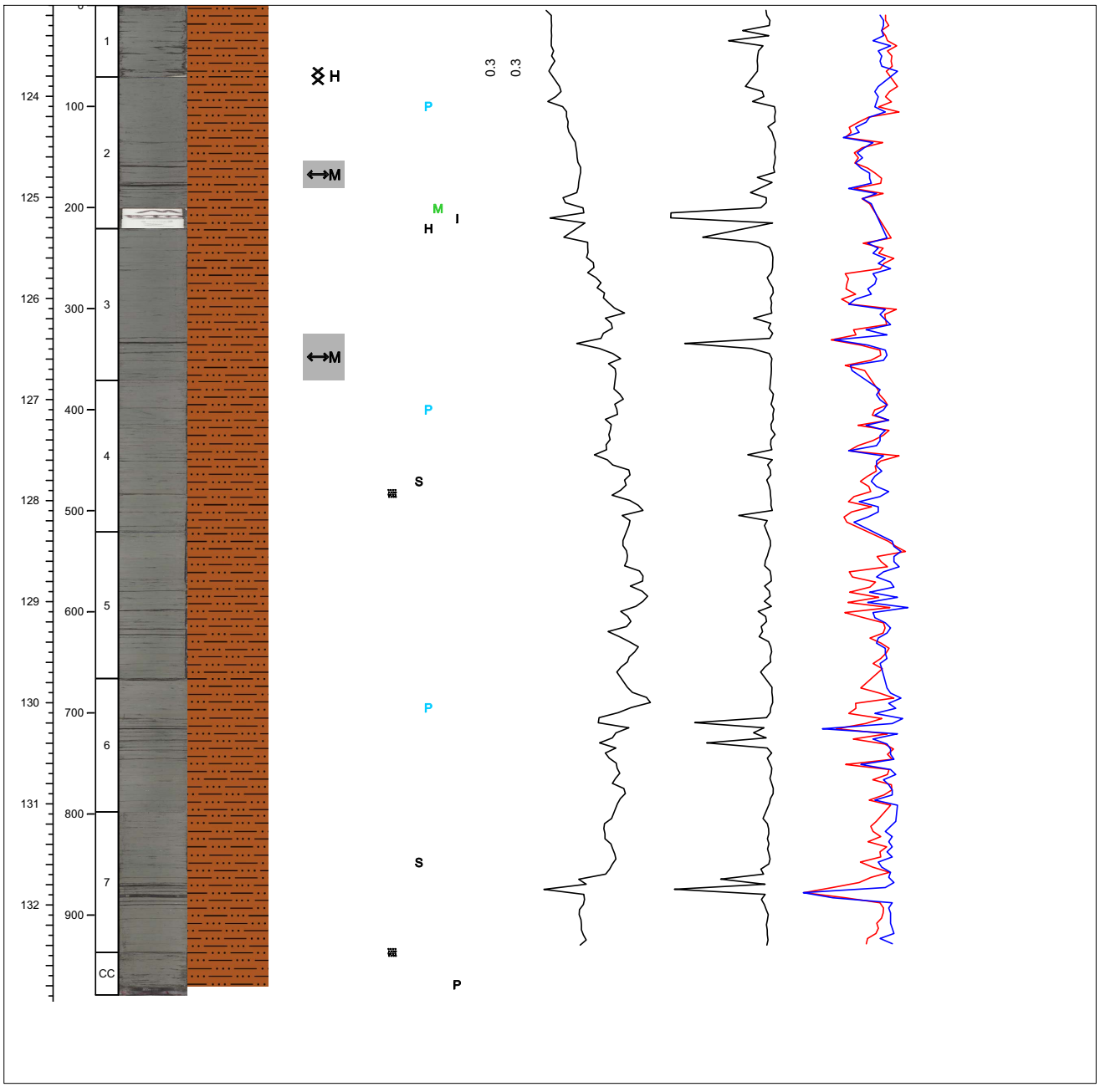
Major lithology: diatom silt (dark greenish gray 5GY 4/1 to 10Y 4/1); diatom-rich clayey silt (very dark greenish gray 10Y 3/1). They occurred alternately. Ash layer occurred in Section 1 (98-99cm 3/N mottling); Section 3(129 cm 2.5Y 3/2). Sand layer composed of metamorphic and vitric grains occurred in Section 4 (2-3cm laminated 4/N).



Core Photo

Hole 323-U1344A Core 14H, Interval 123.1-132.89m (CSF-A)

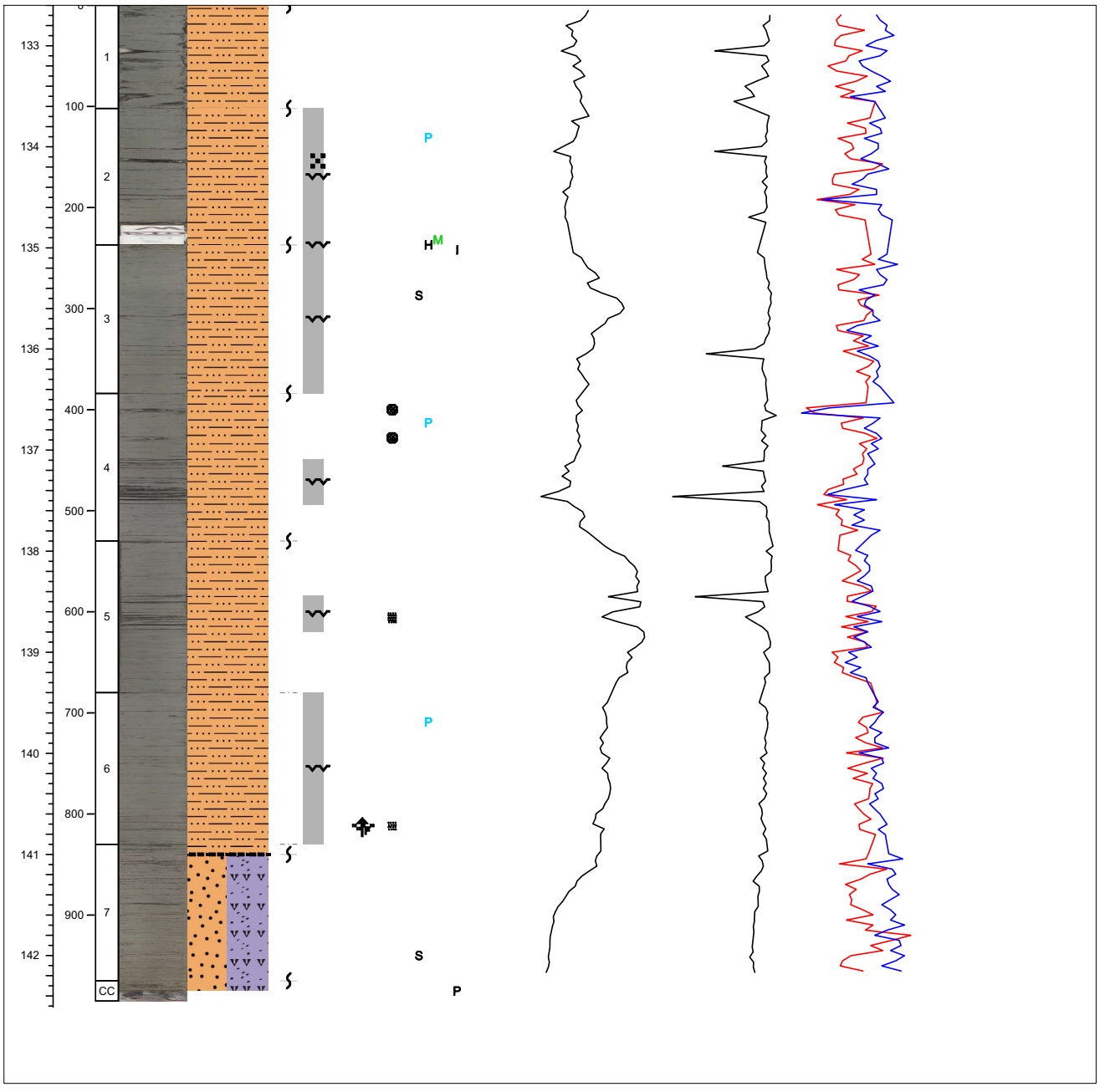
The main lithology is dark gray diatom-rich to diatom-bearing silty clay. Sponge spicule aggregates, shell fragments, and black sulfide specks occur scattered throughout the core. Two sandy/silty layers occur in section 4 and section 7.



Core Photo

Hole 323-U1344A Core 15H, Interval 132.6-142.45m (CSF-A)

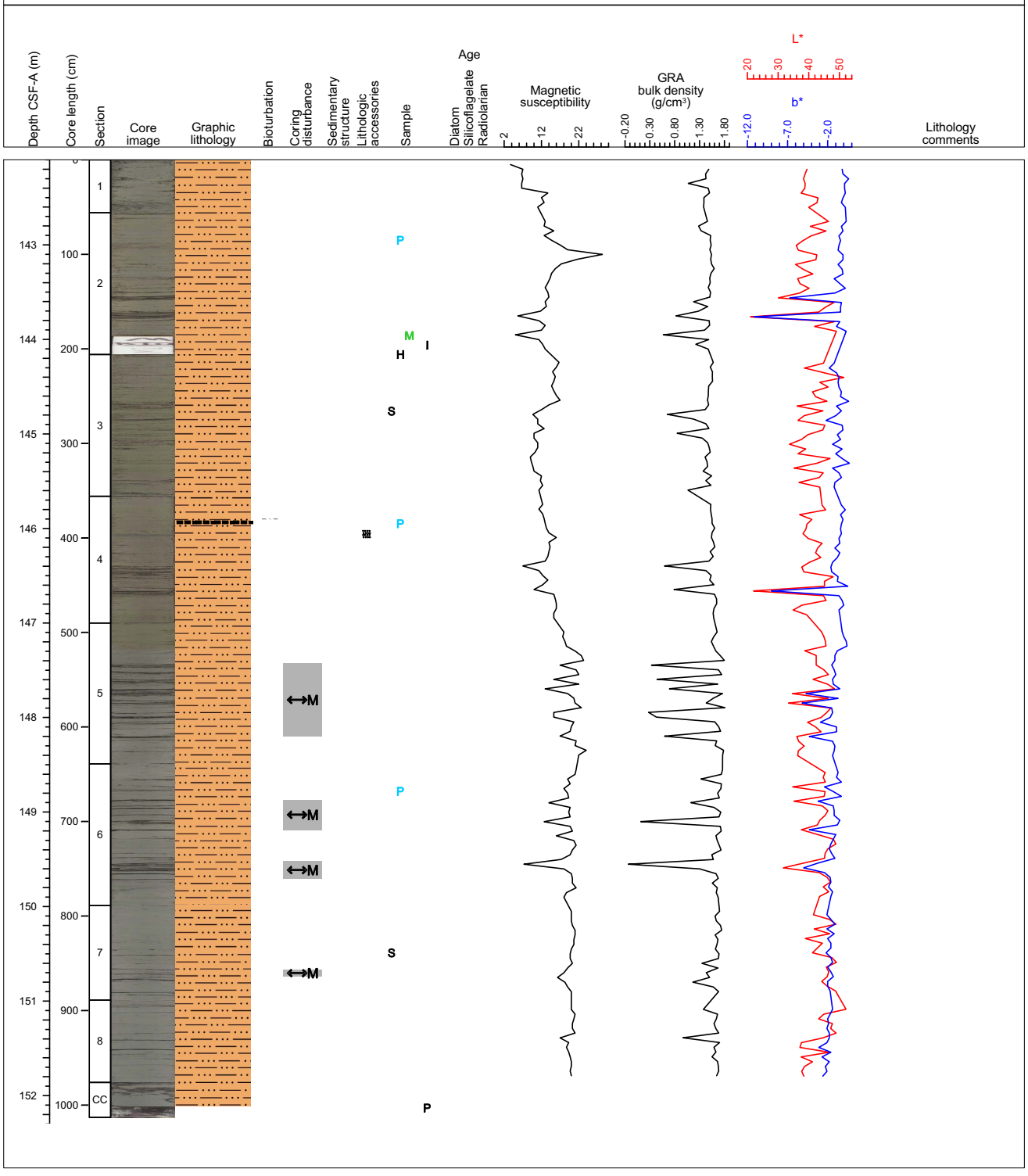
Major lithology is diatom-bearing clayey silt (dark greenish gray 10GY 4/1). Secondary lithology is diatom silt from Section 7 to CC (dark greenish gray 10Y 4/1). Laminated sandy layer occurred in Section 6 (132-134cm). Metamorphic pebbles occurred in Section 4.



Core Photo

Hole 323-U1344A Core 16H, Interval 142.1-152.23m (CSF-A)

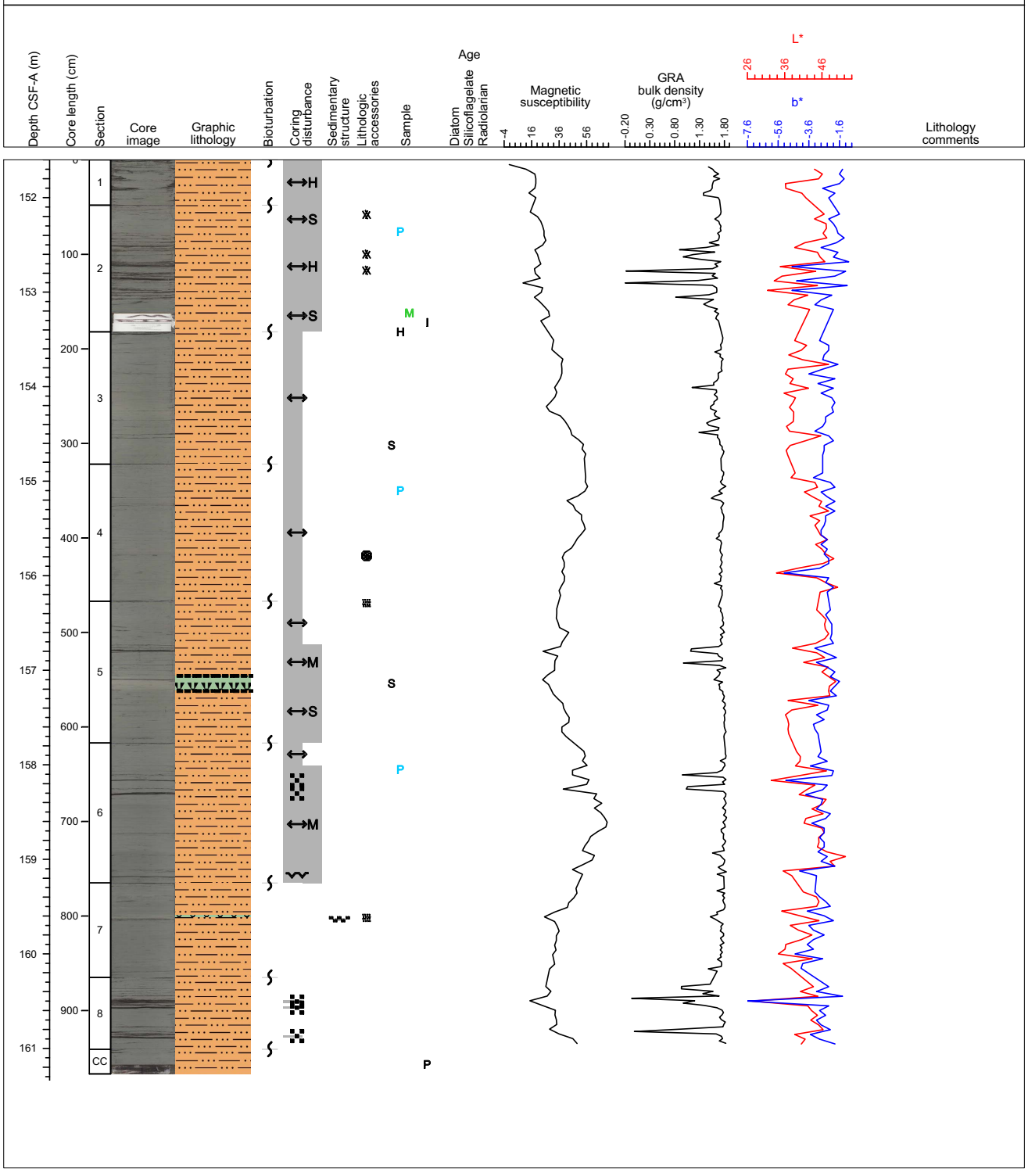
Two main lithologies characterize this core: very dark greenish gray diatom-rich clayey silt (sections 1to 4) and darkgreenish gray diatom-bearing clayey silt (sections 5 to CC). A sandy layer about 3 cm thick occurs in the middle of section 4. Sections 5 through 7 are charcterized by several expansion cracks.



Core Photo

Hole 323-U1344A Core 17H, Interval 151.6-161.27m (CSF-A)

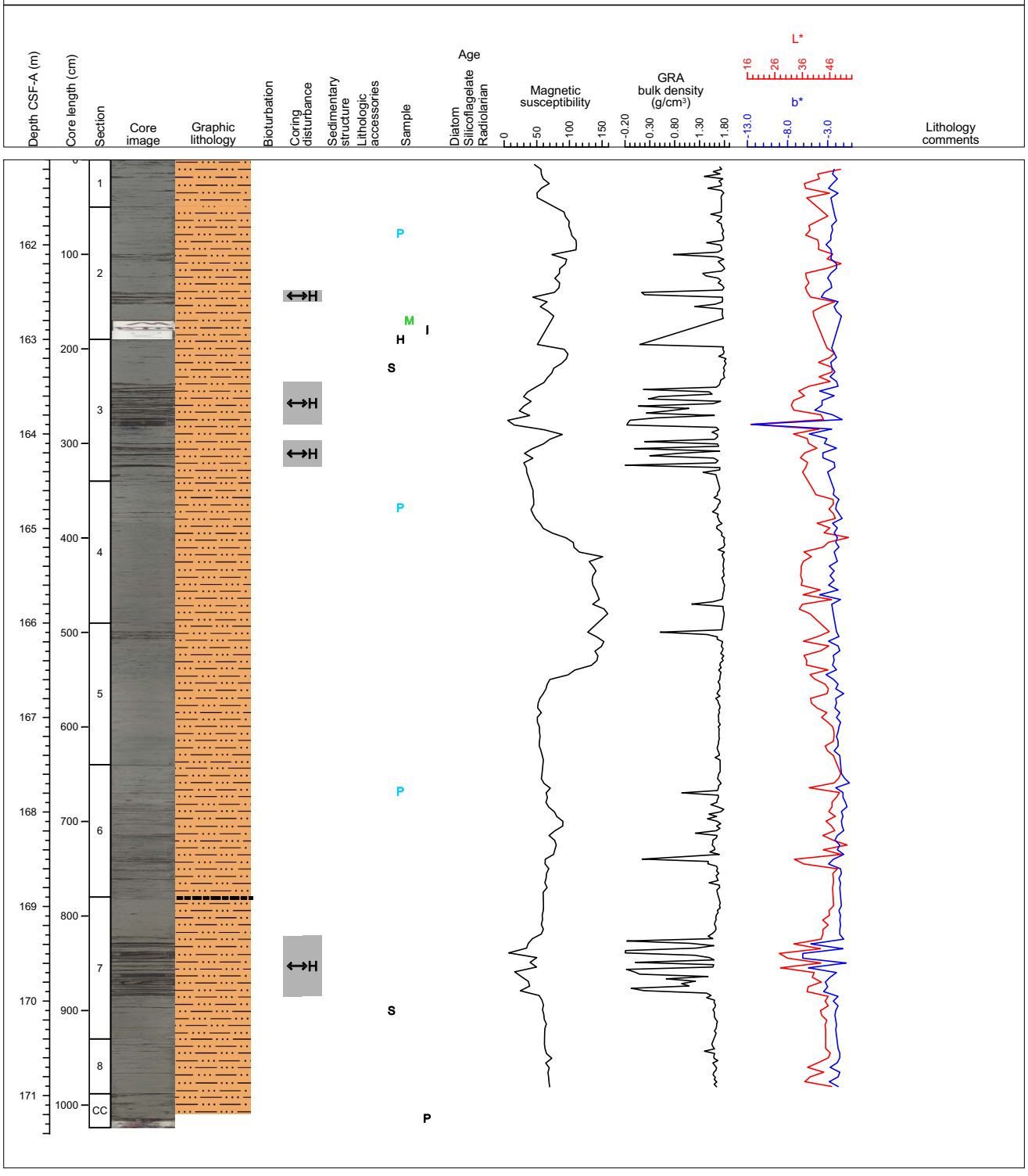
Major lithology: dark greenish gray diatom-bearing clayey silt. Secondary lithology: authigenic carbonate-rich diatom ooze found in sections 5 and 7. The carbonates are very small (<5 microns) and needle-shaped. One bioturbated and laminated sand/mud layer lies directly below an authigenic carbonate layer. Bioturbation is slight throughout the core. Gas expansion ranged from slight to severe with several voids and cracks throughout.



Core Photo

Hole 323-U1344A Core 18H, Interval 161.1-171.34m (CSF-A)

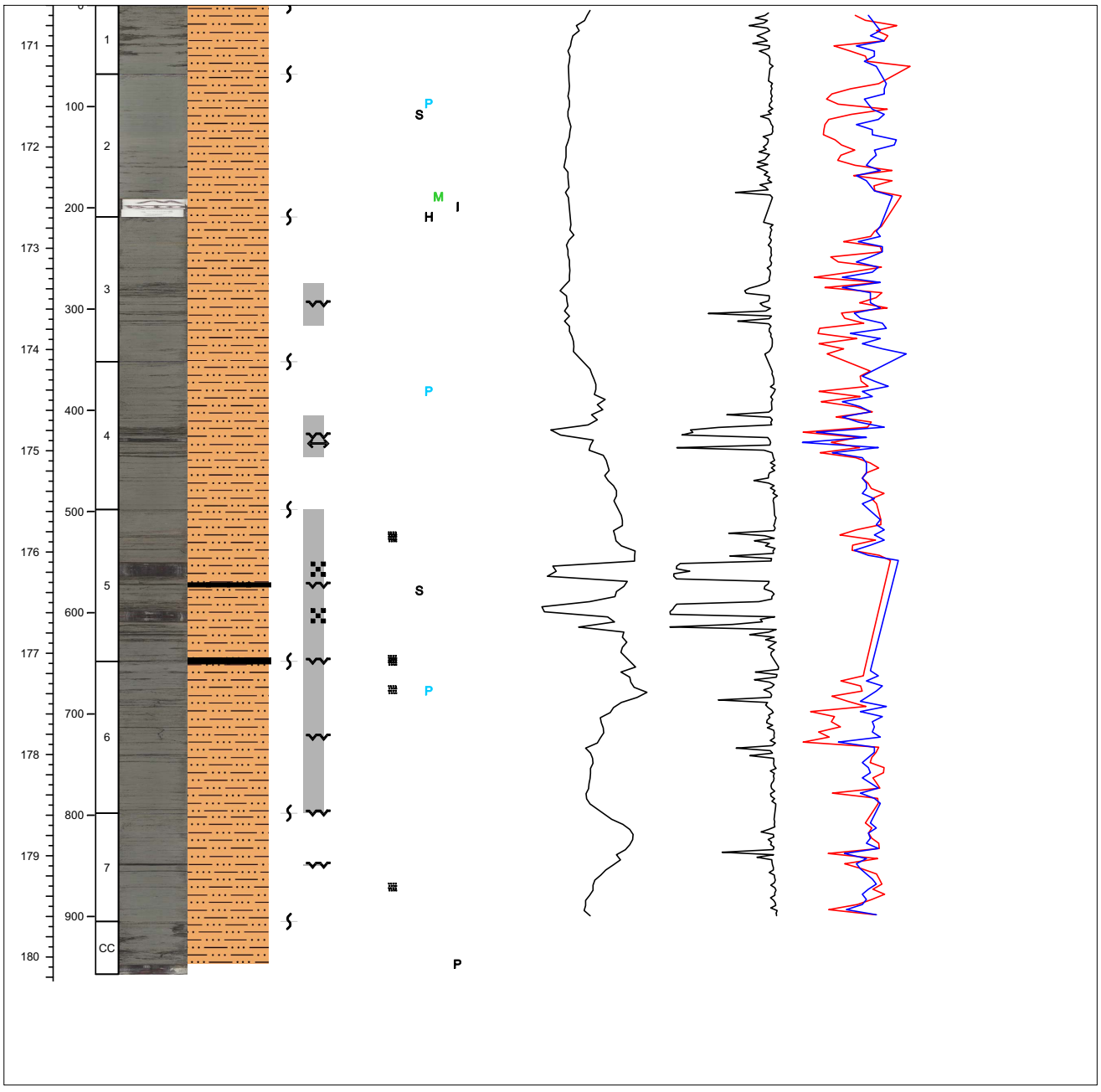
The main lithologies are very dark greenish gray diatom-bearing clayey silt (sections 1 to 6) and greenish black diatom-rich clayey silt (sections 7 to CC). The core shows black sulfide speckles throughout. White sponge spicule aggregates are also common and core disturbance is high in sections 2, 3 and 7.



Core Photo

Hole 323-U1344A Core 19H, Interval 170.6-180.17m (CSF-A)

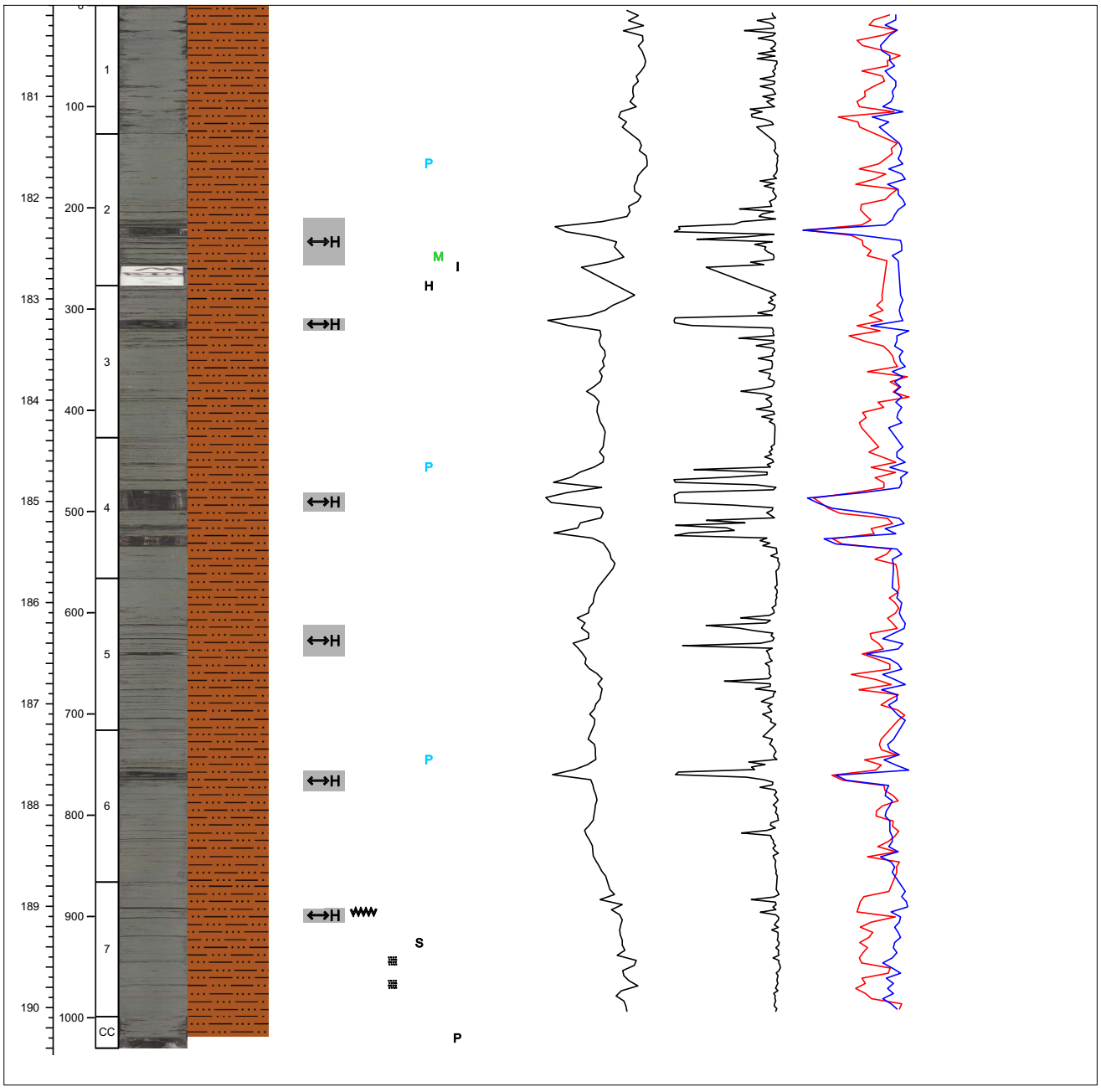
Major lithology is diatom-rich clayey silt (dark greeinsh gray 10Y 4/1). Dark gray ash layer occurred between Section 5 (148cm) and Section 6 (1cm). Some sand layers occurred from Section 5 to 7. Bioturbation is slight.



Core Photo

Hole 323-U1344A Core 20H, Interval 180.1-190.4m (CSF-A)

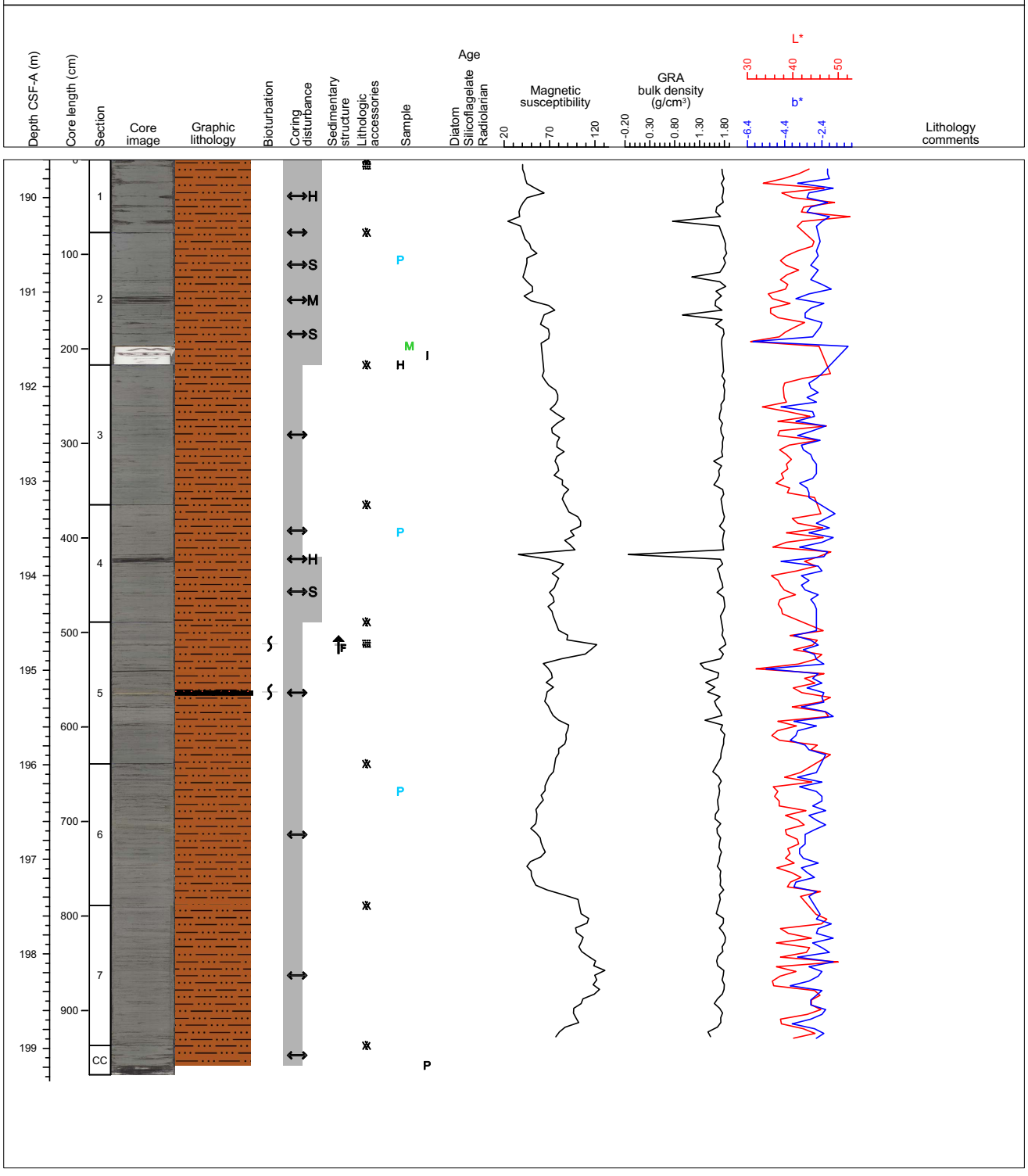
The main lithology is dark greenish gray diatom-bearing silty clay. Two sandy layers and a sand mottle occur at the bottom of section 7. The core is highly disturbed with gas expansion cracks occurring in all sections.



Core Photo

Hole 323-U1344A Core 21H, Interval 189.6-199.28m (CSF-A)

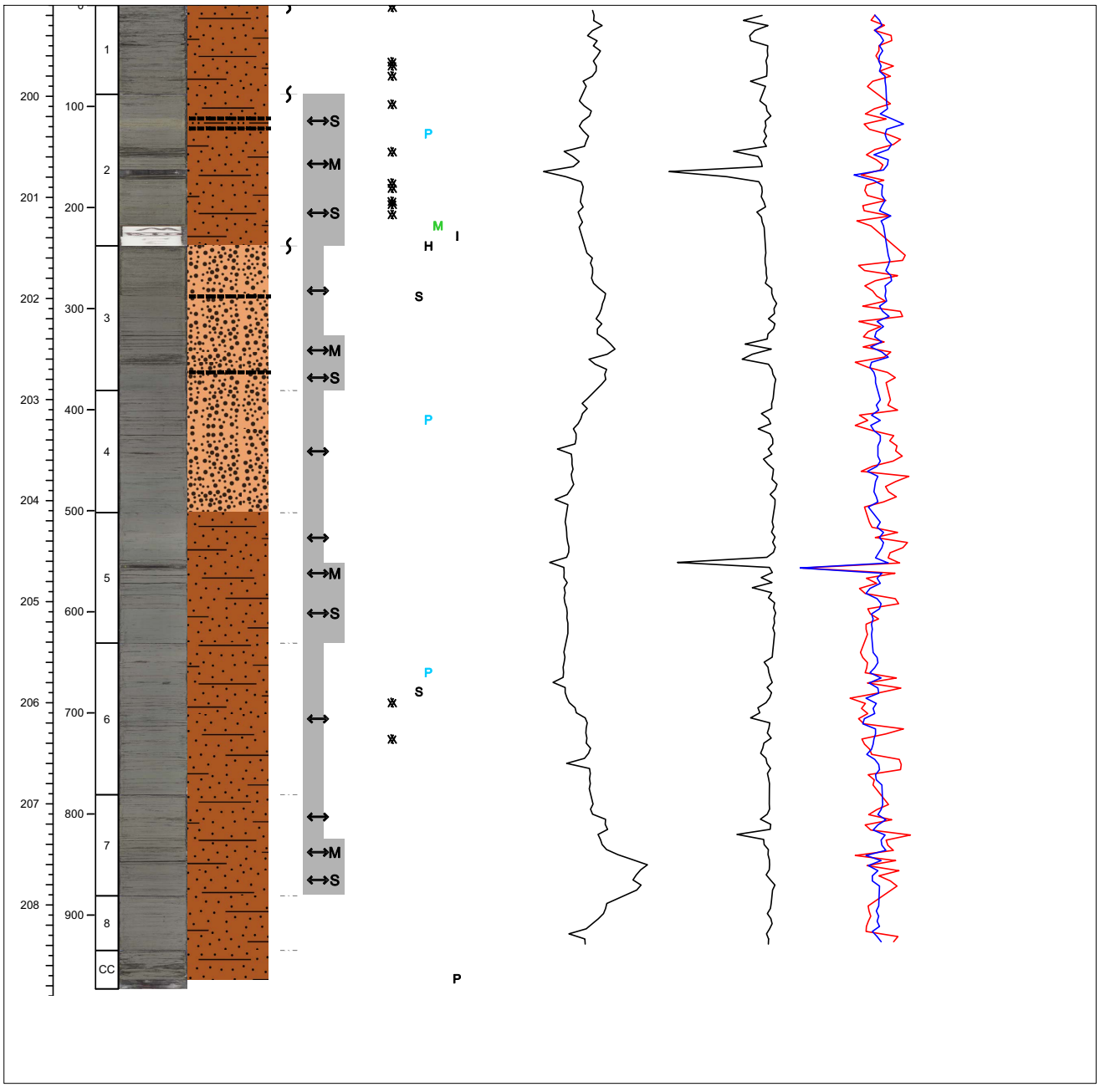
Main lithology is greenish black diatom-bearing silty clay. There are small sandy mottles and black streaky mottles as well as small sponge spicule aggregates throughout. Section 5 has a fining upwards sand bed 2 cm thick and an olive grey fine ash bed. Bioturbation is slight to absent and there are numerous gas expansion cracks through the core.



Core Photo

Hole 323-U1344A Core 22H, Interval 199.1-208.83m (CSF-A)

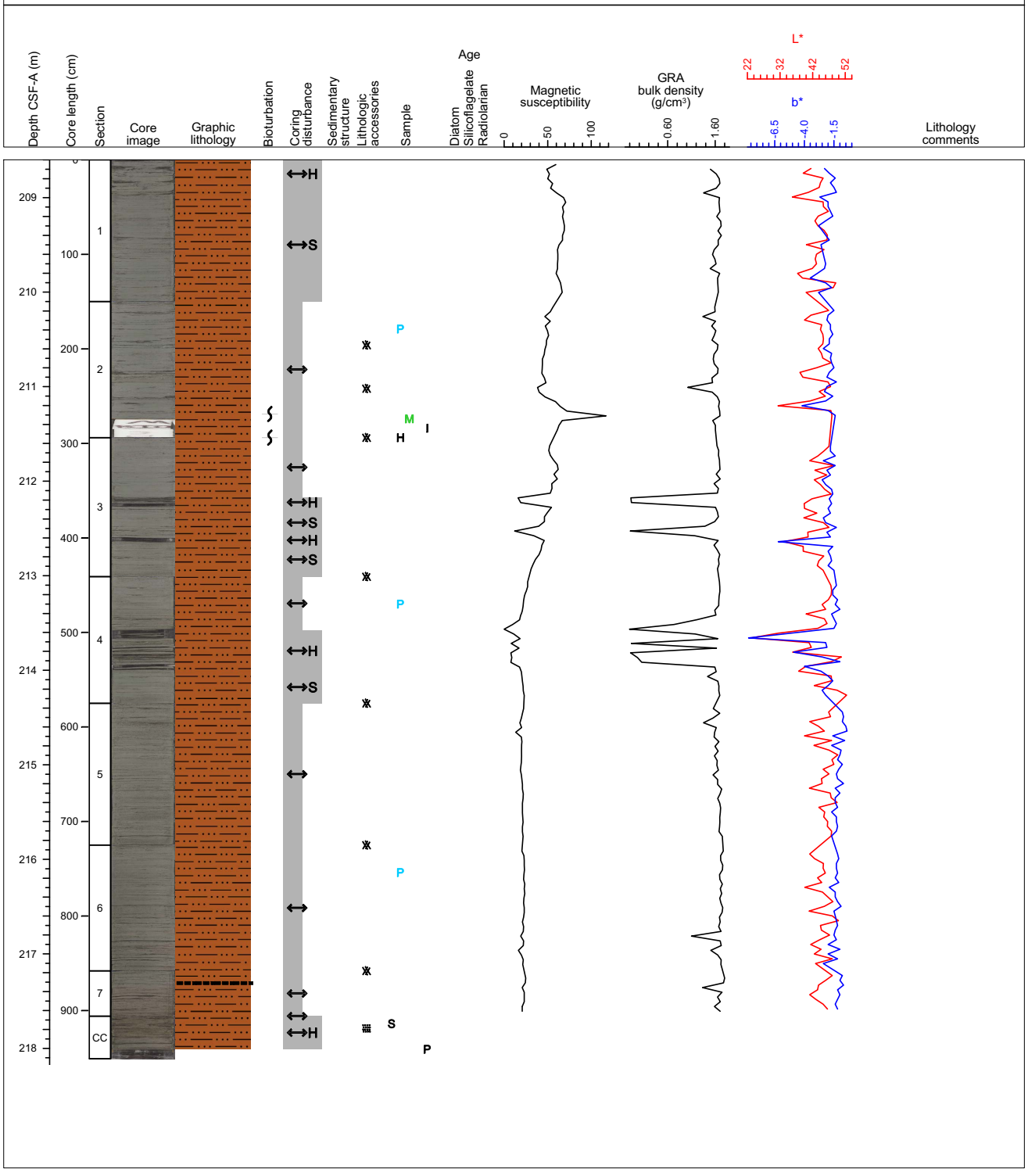
Major lithologies: Soft, dark gray to dark greenish gray diatom-rich silty clay, diatom-bearing sandy clay, and minor olive authigenic carbonate-rich diatom-rich silty sand in section 2; sponge spicule aggregates throughout most of the core; rare sandy and pyrite mottles; slight to moderate bioturbation; slight to moderate gas expansion, section 1 severe, section 2 moderate drilling disturbance



Core Photo

Hole 323-U1344A Core 23H, Interval 208.6-218.11m (CSF-A)

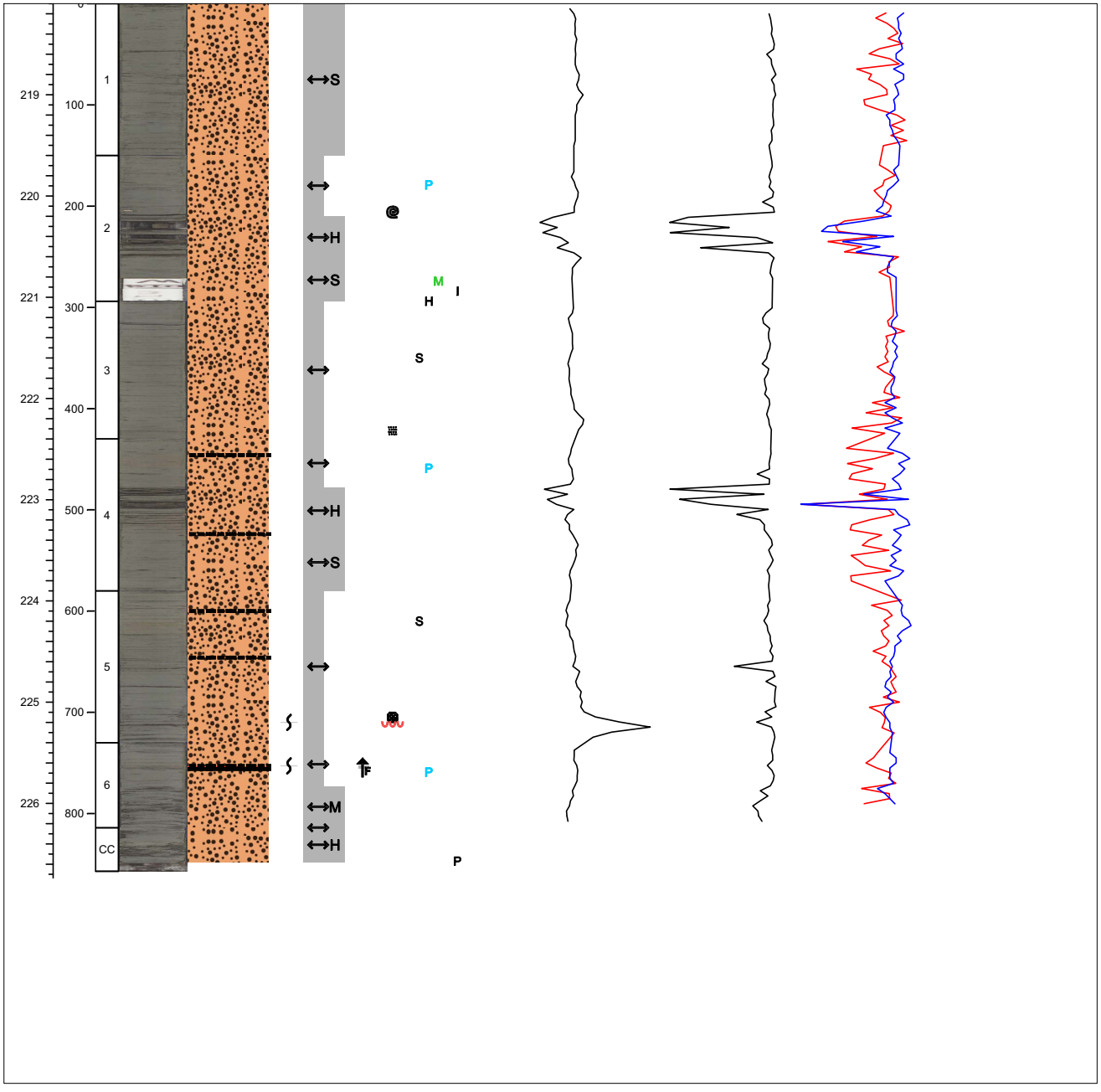
The main lithology is greenish black diatom-bearing silty clay with a gradational change to very dark greenish grey diatom-rich silty clay in section 7. There are sandy mottles and lamina, black streaky mottles and small sponge spicule aggregates throughout. Bioturbation is slight to absent and there are numerous gas expansion cracks.



Core Photo

Hole 323-U1344A Core 24H, Interval 218.1-226.67m (CSF-A)

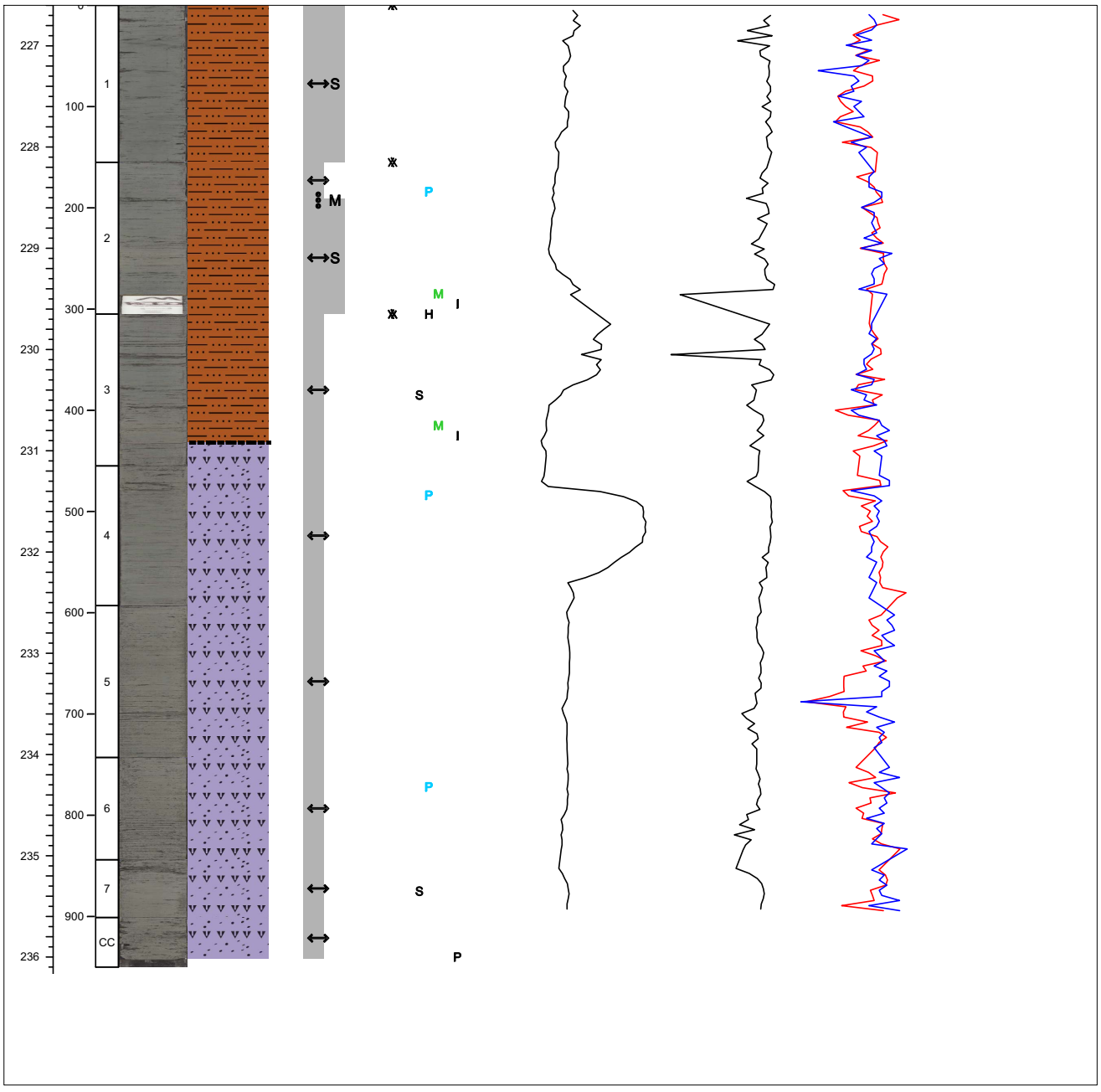
Main lithology is greenish black diatom-rich sandy silt with minor authigenic carbonate-rich layers. There is a fining upward sand layer in section 6 with a sharp base and bioturbated top and a clast in section 5. Bioturbation is slight to absent and there are gas expansion cracks throughout the core.



Core Photo

Hole 323-U1344A Core 25H, Interval 226.6-236.1m (CSF-A)

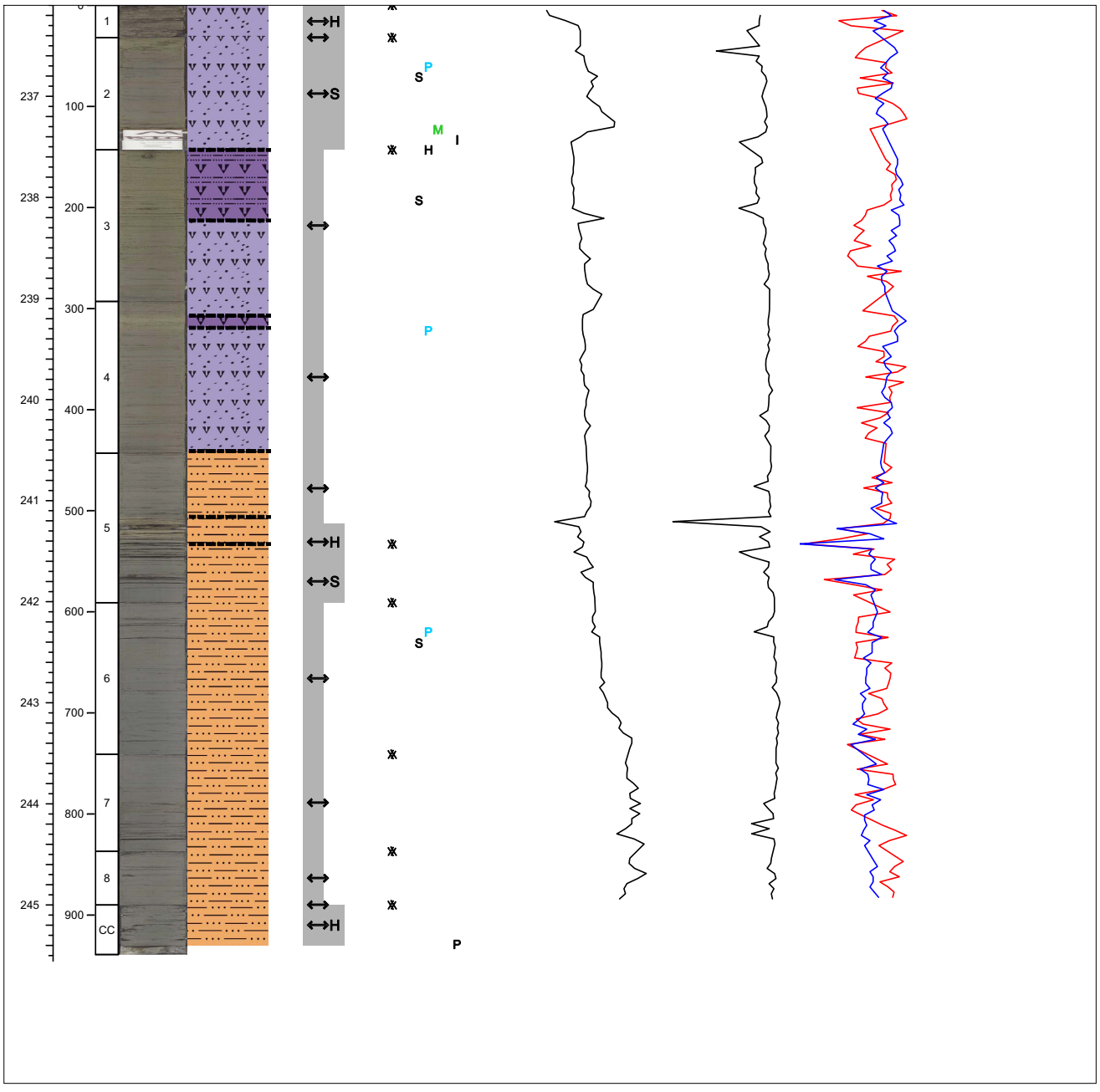
Main lithologies are very dark grey diatom-rich silty clay and diatom silt. The boundary is gradational. There are sponge spicule aggregates and sandy mottles as well as black streaky mottles in sections 1 to 3 but these are rare below. Bioturbation is absent and drilling disturbance is slight except for a soupy interval of 2 cm in section 2.



Core Photo

Hole 323-U1344A Core 26H, Interval 236.1-245.49m (CSF-A)

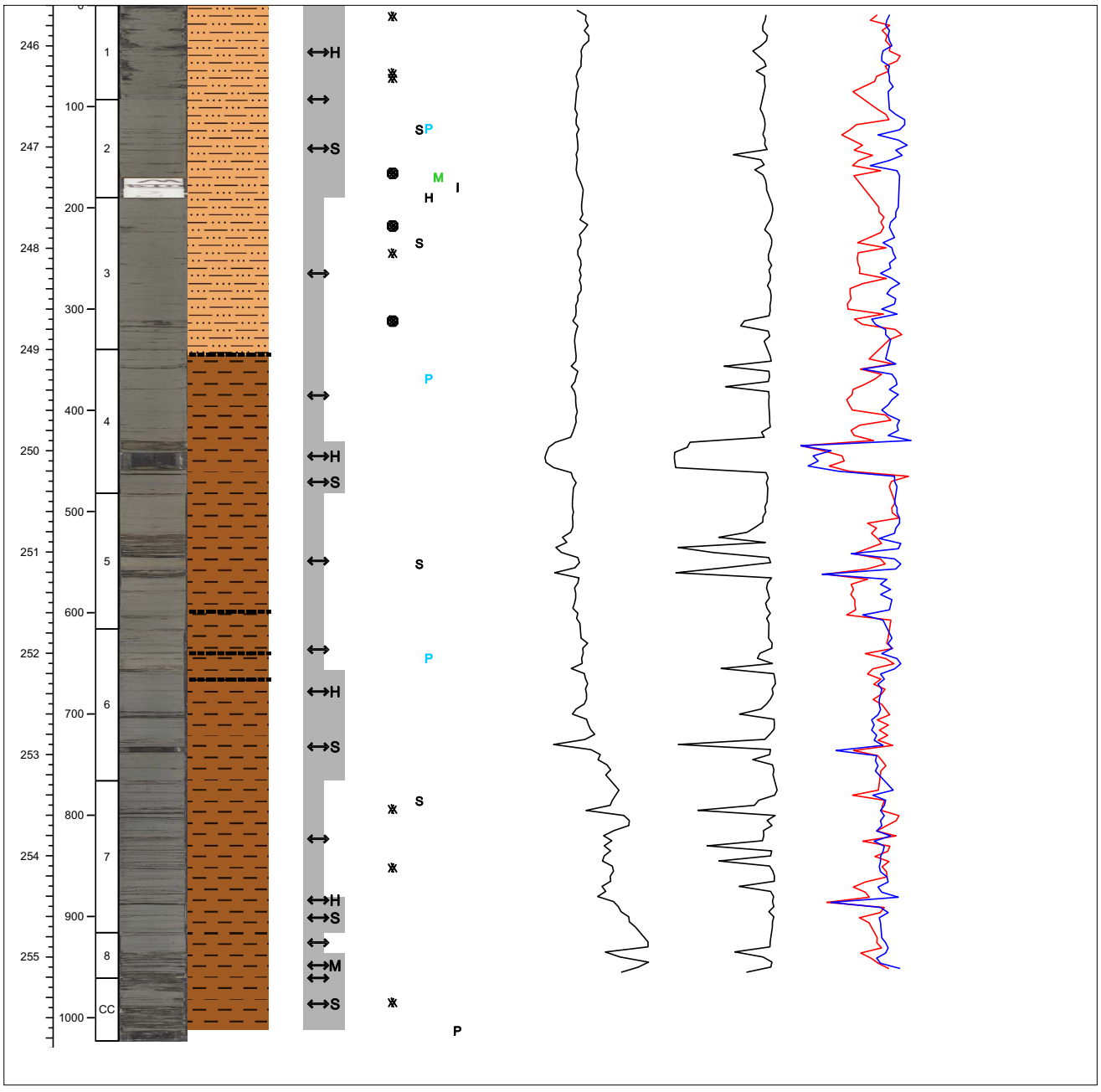
Main lithologies are greenish black diatom-bearing clayey silt and very dark greenish grey diatom silt with minor authigenic carbonate-rich intervals in sections 3, 4 and 5. Sandy mottles and sponge spicule aggregates are visible in sections 1, 2 and 5 through to the CC. Bioturbation is absent. Gas expansion cracks are throughout the core with severe disturbance in sections 1 and the CC.



Core Photo

Hole 323-U1344A Core 27H, Interval 245.6-255.83m (CSF-A)

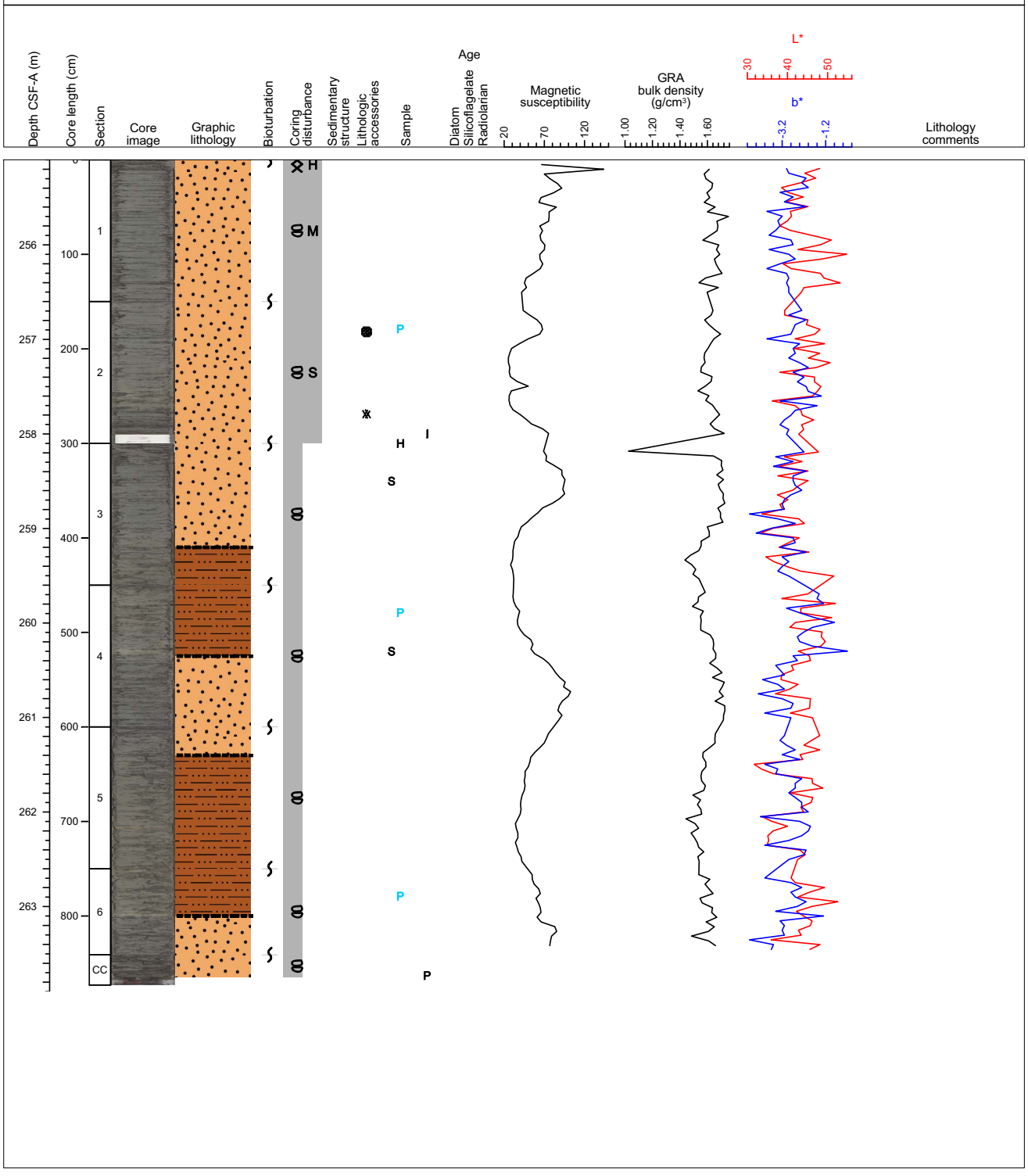
Main lithologies are dark greenish grey diatom-rich clayey silt, authigenic carbonate-rich diatom-rich clay and diatom-rich clay. Boundaries are gradational. There are sandy mottles and sponge spicule aggregates throughout most of the core. There are clasts in sections 2 and 3. Bioturbation is absent and there are numerous gas expansion cracks and voids.



Core Photo

Hole 323-U1344A Core 28X, Interval 255.1-263.83m (CSF-A)

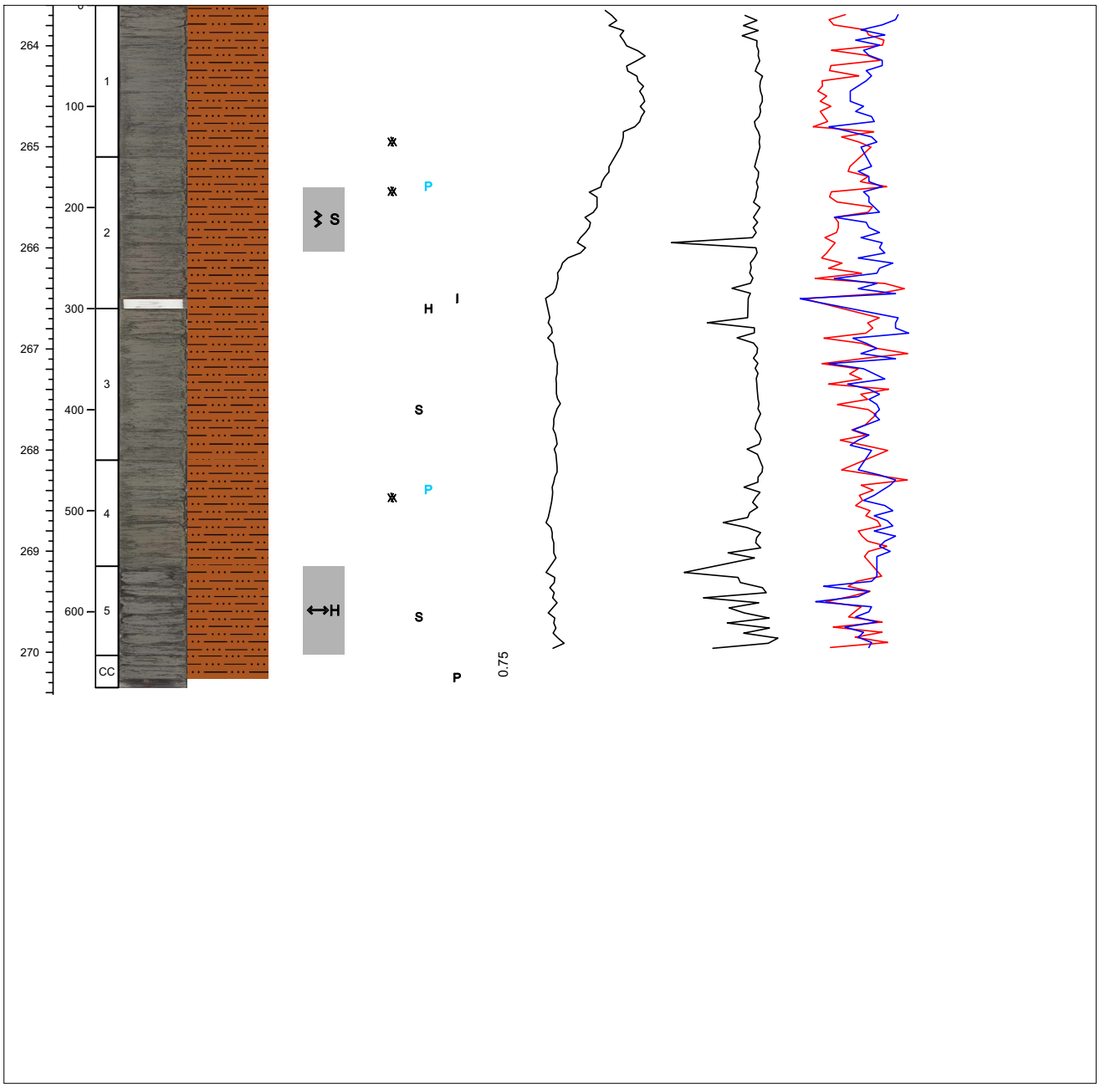
Main lithology is diatom rich silt. Secondary lothology is auth. carb. diatom rich silty clay. Auth. carb. diatom rich silty clay is situated Sec. 3-6. Driling disturbance (biscuits) occurrs throughout the core. Slightly bioturbated.



Core Photo

Hole 323-U1344A Core 29X, Interval 263.6-270.35m (CSF-A)

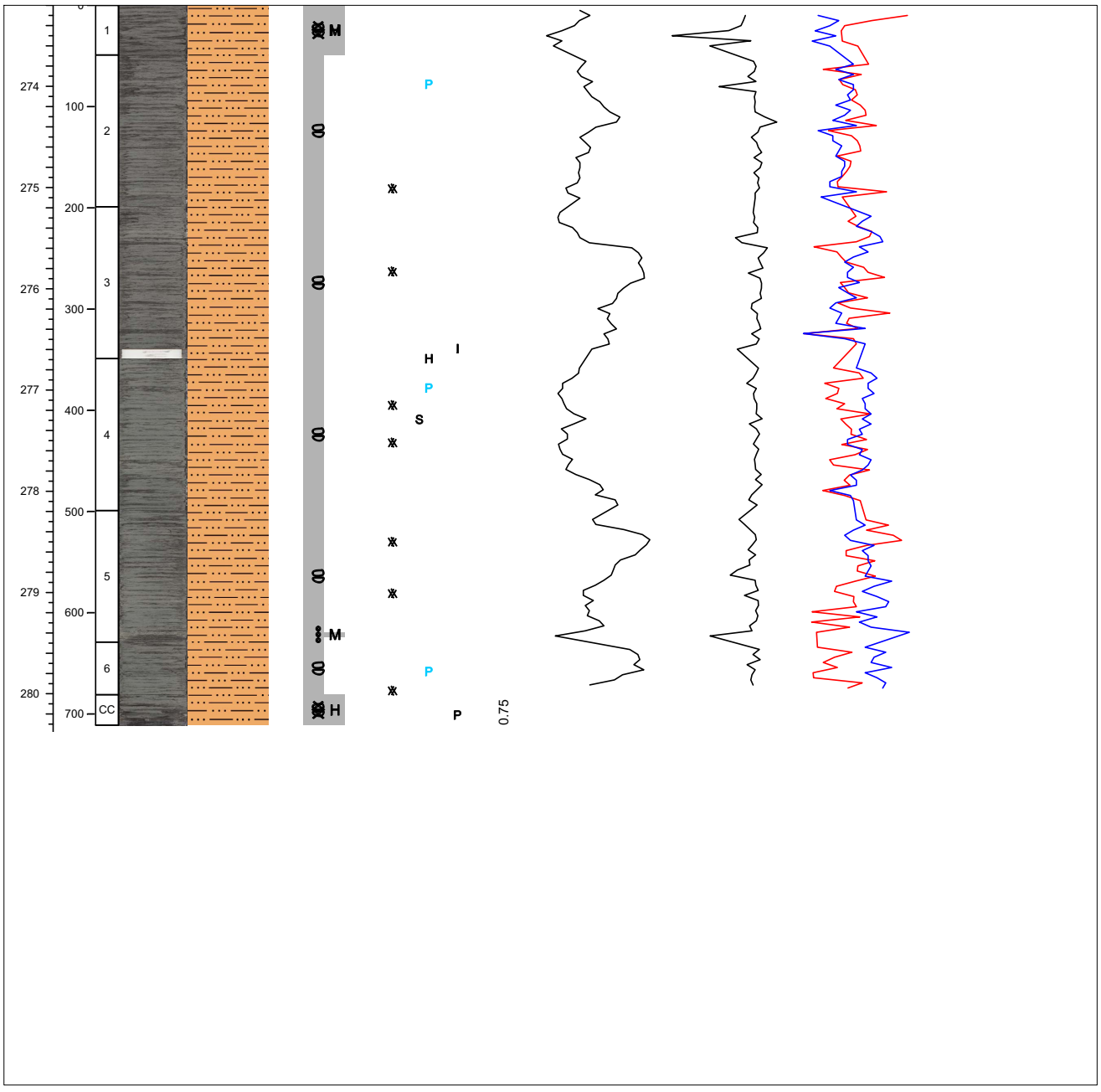
Main lithology:Dark gray (10Y 4/1) Diatom-rich silty clay. Sec. 5 is severely drilling disturbed (gas expansion).



Core Photo

Hole 323-U1344A Core 30X, Interval 273.2-280.31m (CSF-A)

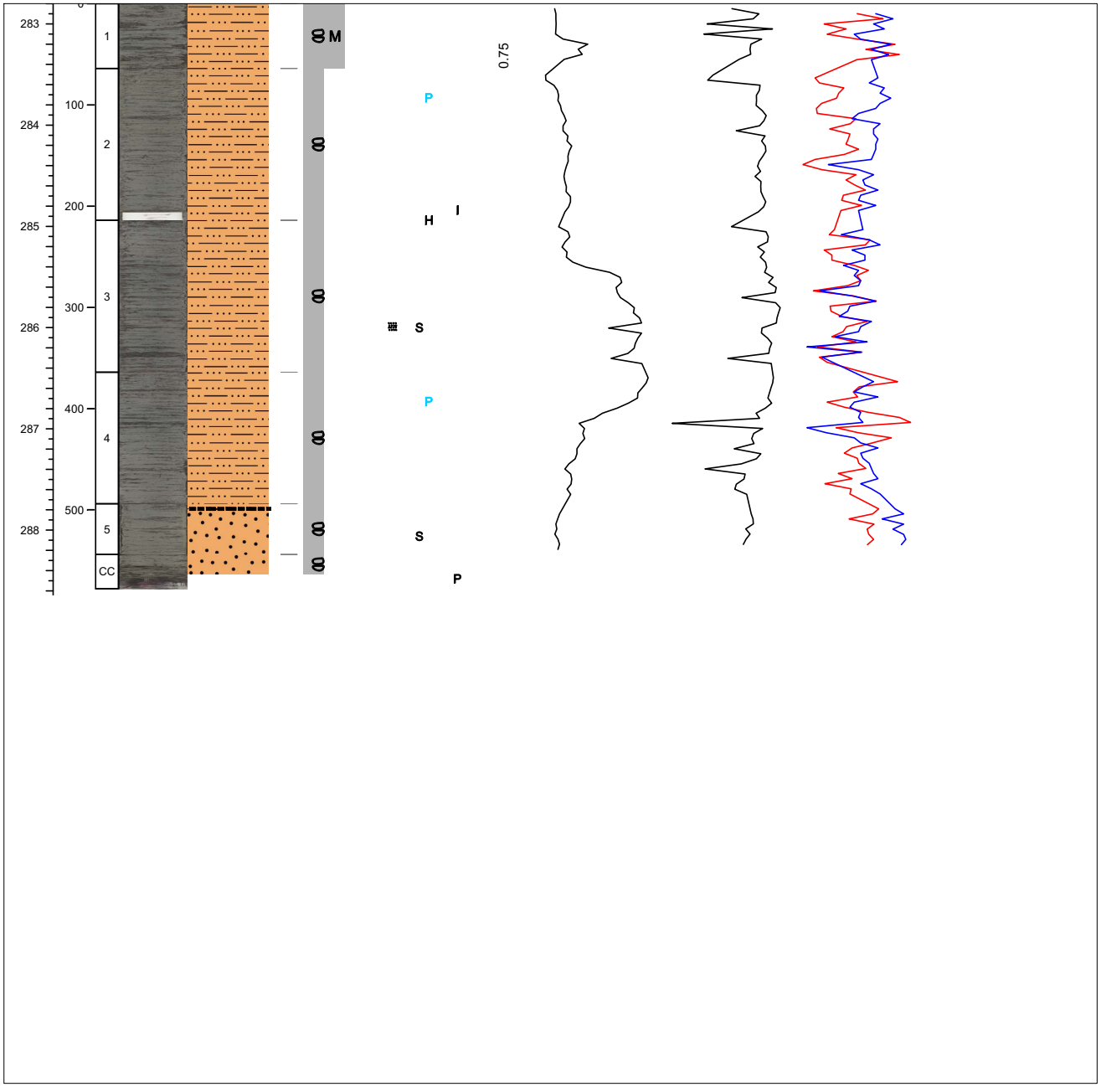
Main lithology is a dark olive grey diatom-rich clayey silt. There are many sponge spicule aggregates. Bioturbation is slight. Section 1 was extruded on the drill floor, so possibly not stratigraphically intact. There is moderate biscuiting throughout the entire core.



Core Photo

Hole 323-U1344A Core 31X, Interval 282.8-288.58m (CSF-A)

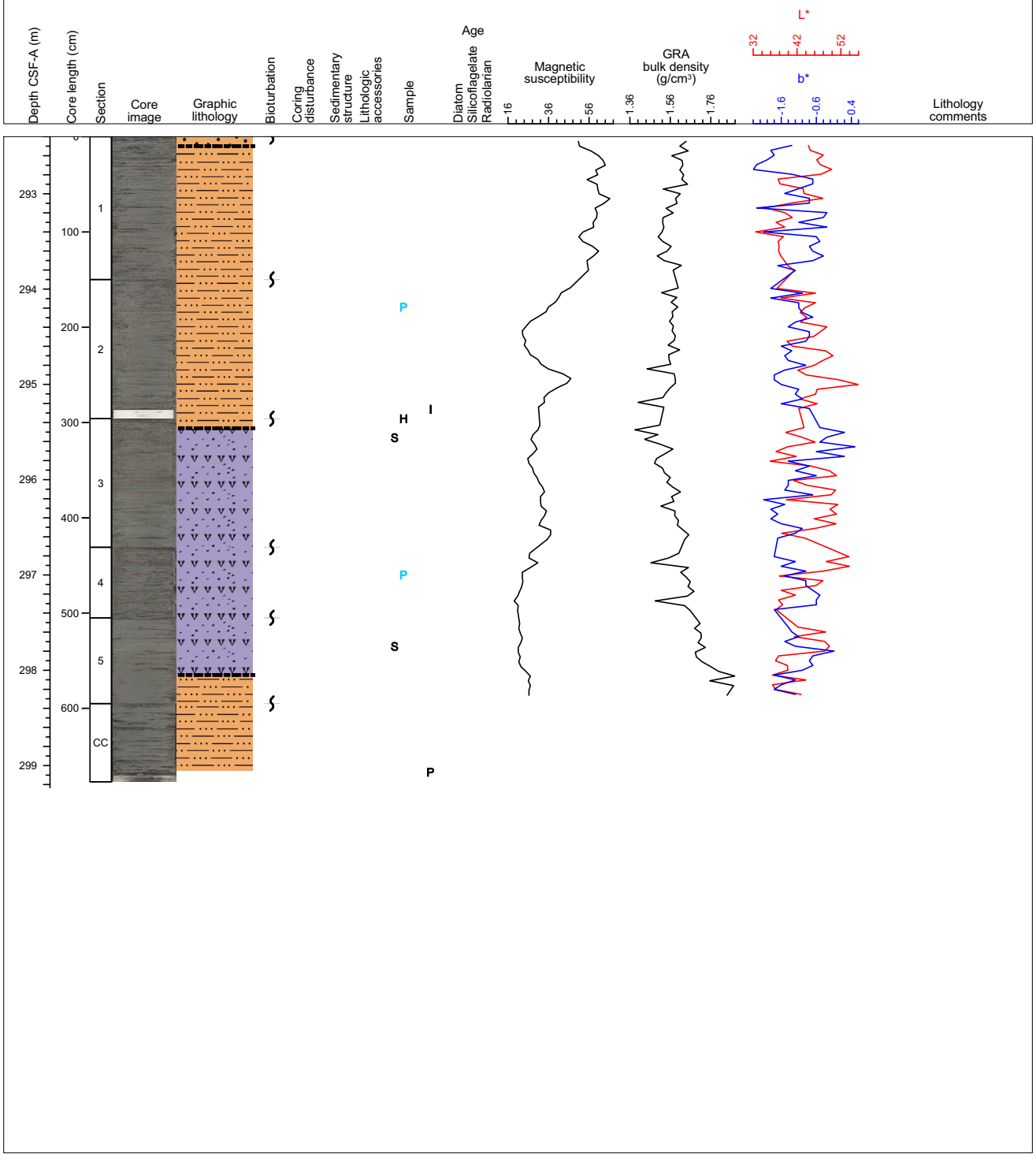
Major lithology is diatom-bearing clayey silt (very dark greenish gray 10Y 3/1). Secondary lithology is diatom-rich silt (dark greenish gray 10Y 4/1) from Section 5 to CC. Sand layer occurred in Section 3 (105-106cm).



Core Photo

Hole 323-U1344A Core 32X, Interval 292.4-299.17m (CSF-A)

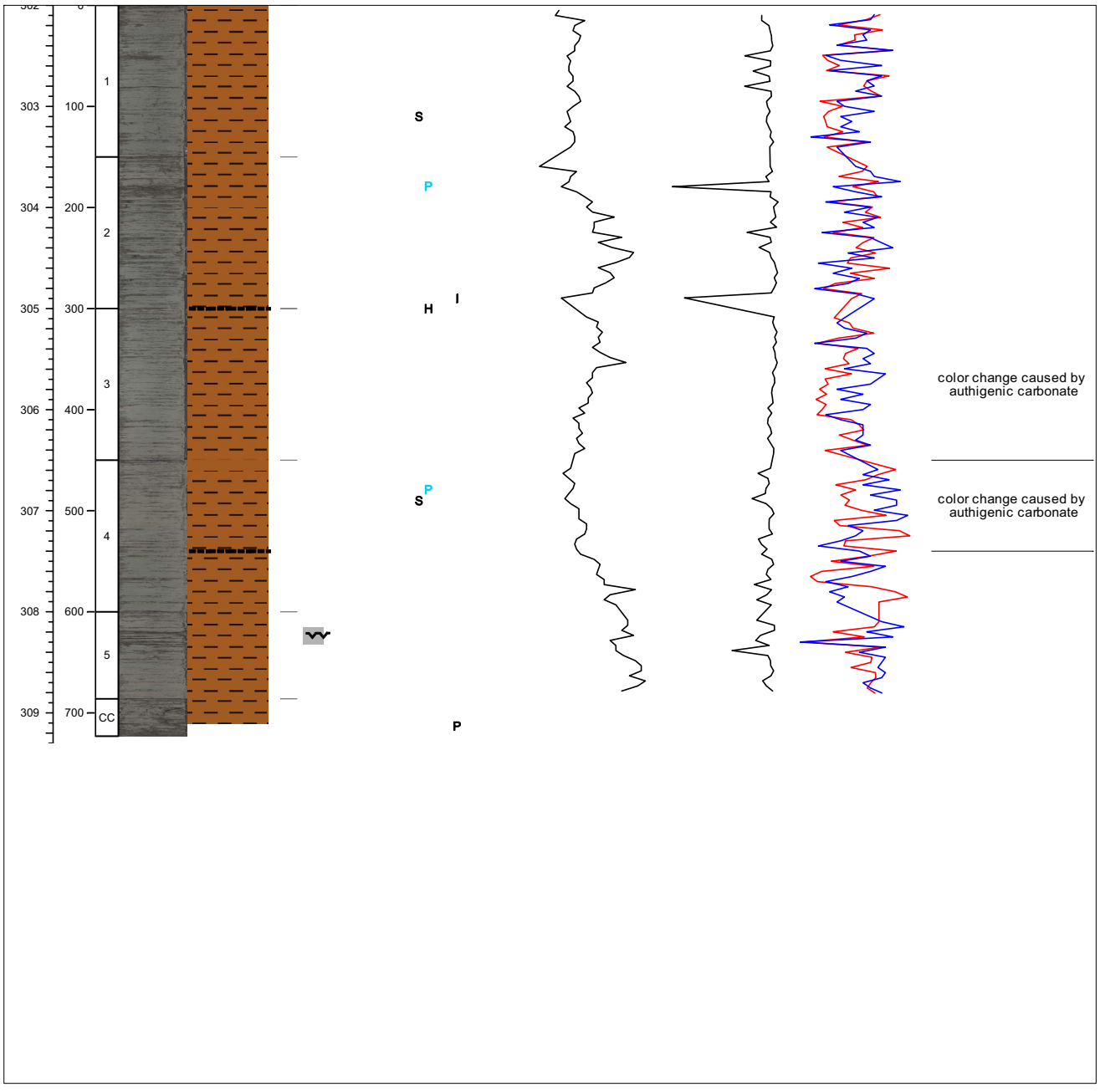
Major lithology: diatom silt (dark greenish gray 5GY 4/1); diatom-rich clayey silt (very dark greenish gray 10Y 3/1). They occurred alternately.
Sandy mottling occurred in Section 5 (22-23cm).



Core Photo

Hole 323-U1344A Core 33X, Interval 302.0-309.23m (CSF-A)

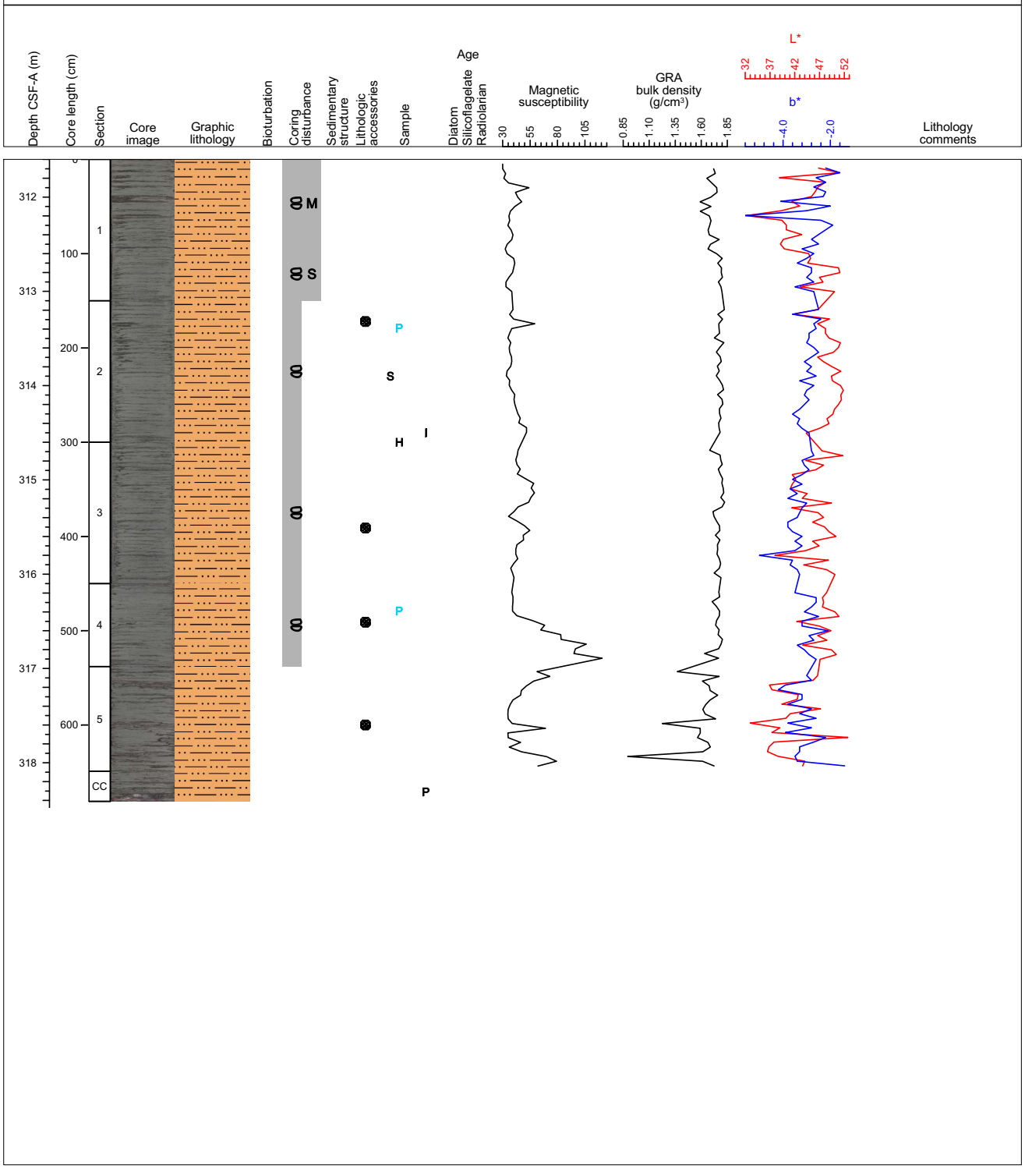
Major lithology: diatom-bearing clayey silt (very dark greenish gray 10Y 3/1 to dark greenish gray 10Y 4/1). Light colored beds (10Y 4/1) contain authigenic carbonate.



Core Photo

Hole 323-U1344A Core 34X, Interval 311.6-318.41m (CSF-A)

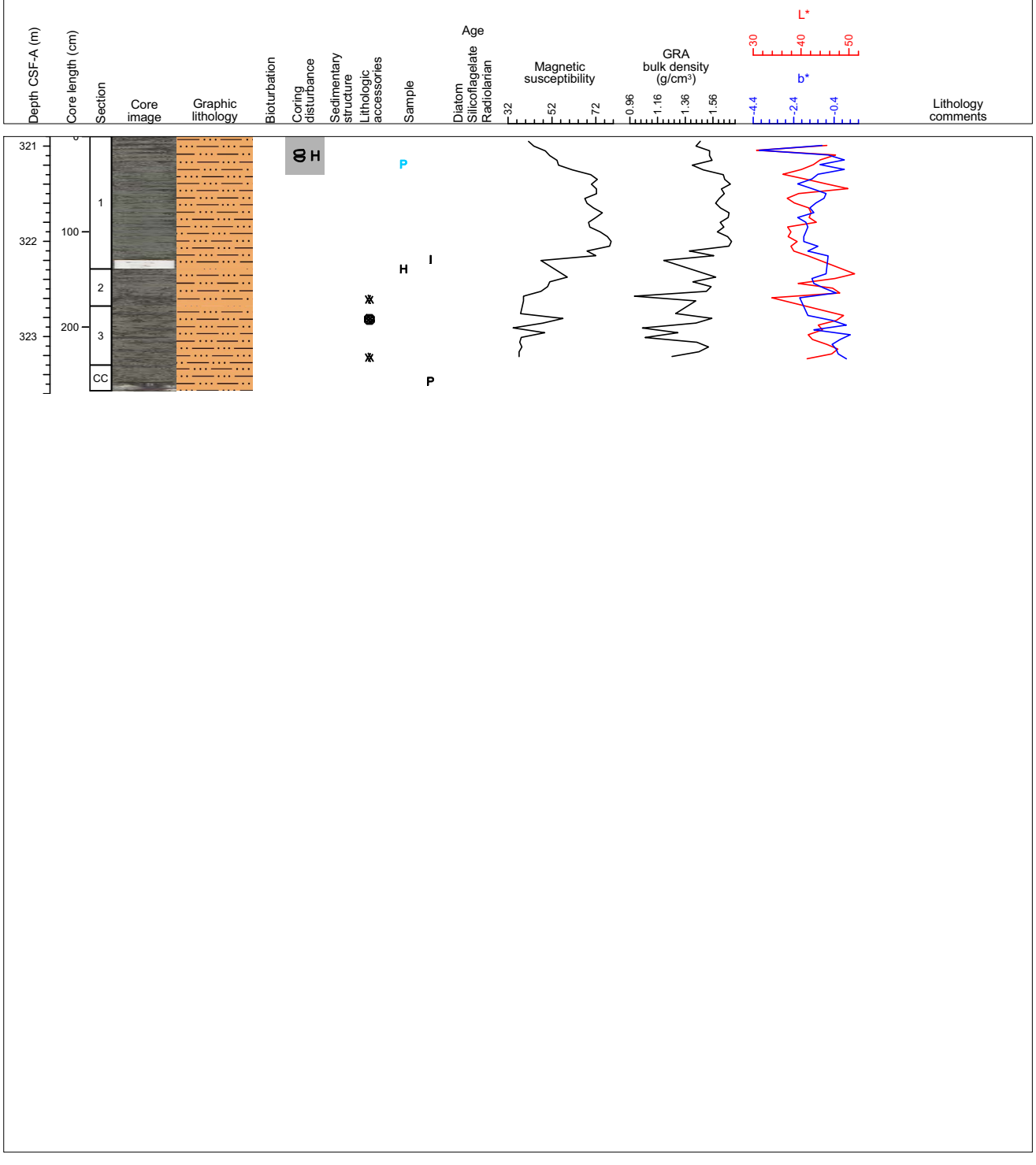
Major lithology: very dark greenish gray diatom-rich clayey silt. Several pebbles and granules were found in sections 2-5. Mottles consist of either sand or pyrite streaks ard are also present throughout. Drilling disturbance is slight to high and due to biscuiting and gas expansion. Section 5 was extruded onto the rig floor.



Core Photo

Hole 323-U1344A Core 35X, Interval 320.9-323.57m (CSF-A)

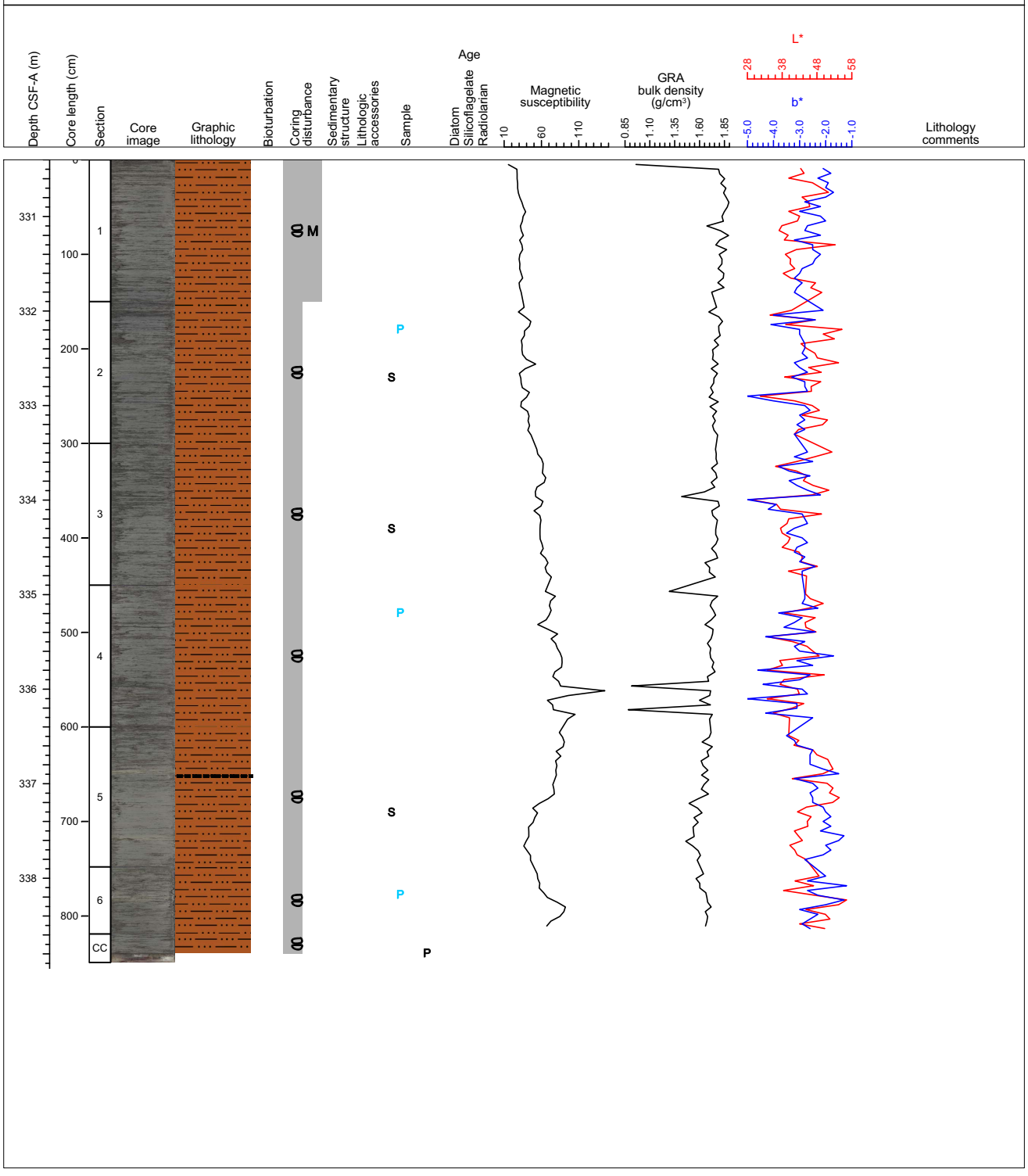
Major lithology: dark greenish gray diatom-rich clayey silt. Sevearl mottles and pebbles occur throughout the core. Drilling disturbance is moderate to high because of biscuiting and gas expansion. Section 3 was extruded onto the rig floor.



Core Photo

Hole 323-U1344A Core 36X, Interval 330.4-338.89m (CSF-A)

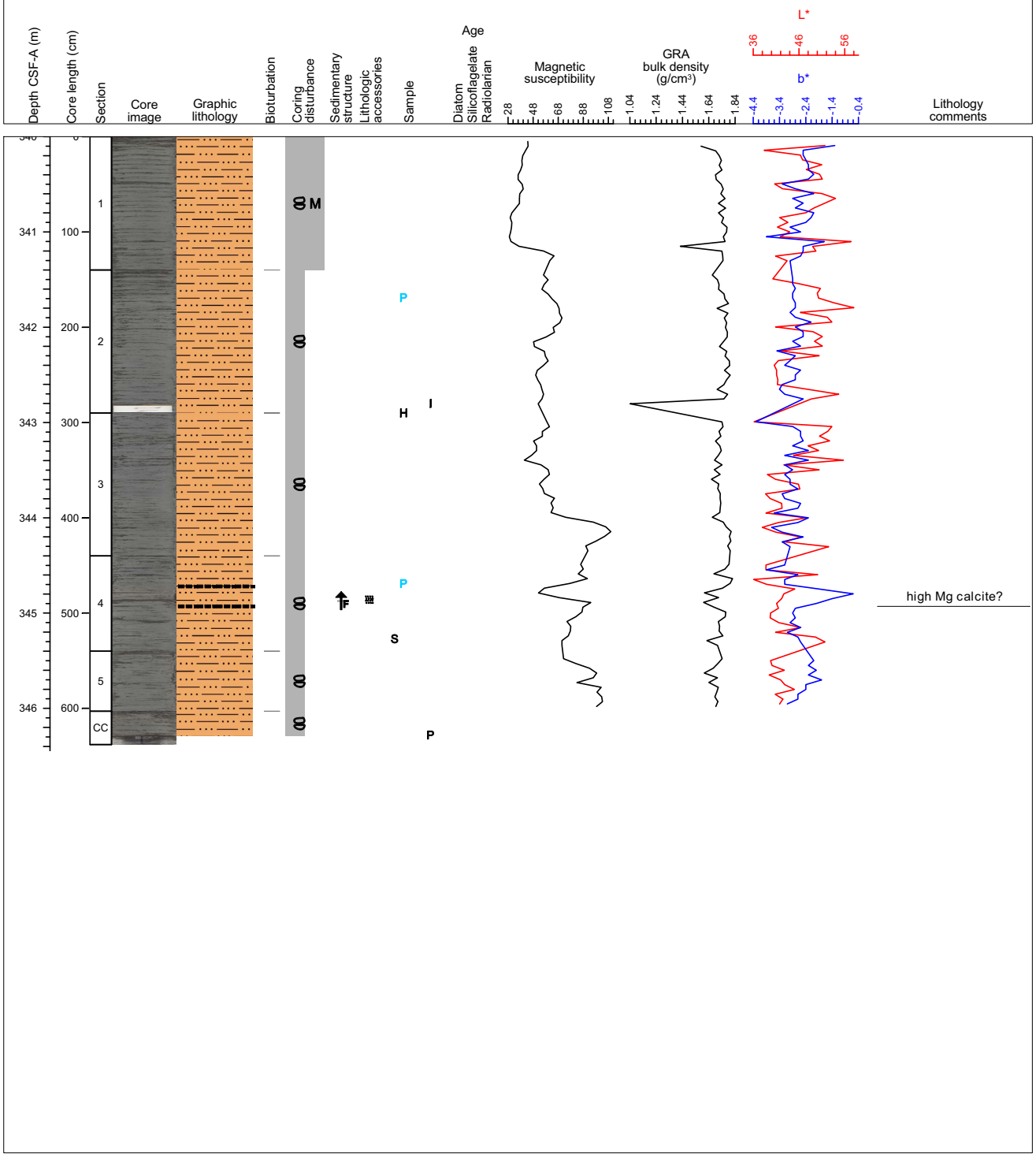
The main lithologies are very dark gray silty clay (from sections 1 throughout 5) and very dark greenish gray diatom-bearing silty clay (sections 6 to CC). The two litholgies transition gradually. Two lighter colored, acicular authigenic carbonate rich layers occur in sections 5 and 6. The core shows drilling biscuits throughout.



Core Photo

Hole 323-U1344A Core 37X, Interval 340.0-346.38m (CSF-A)

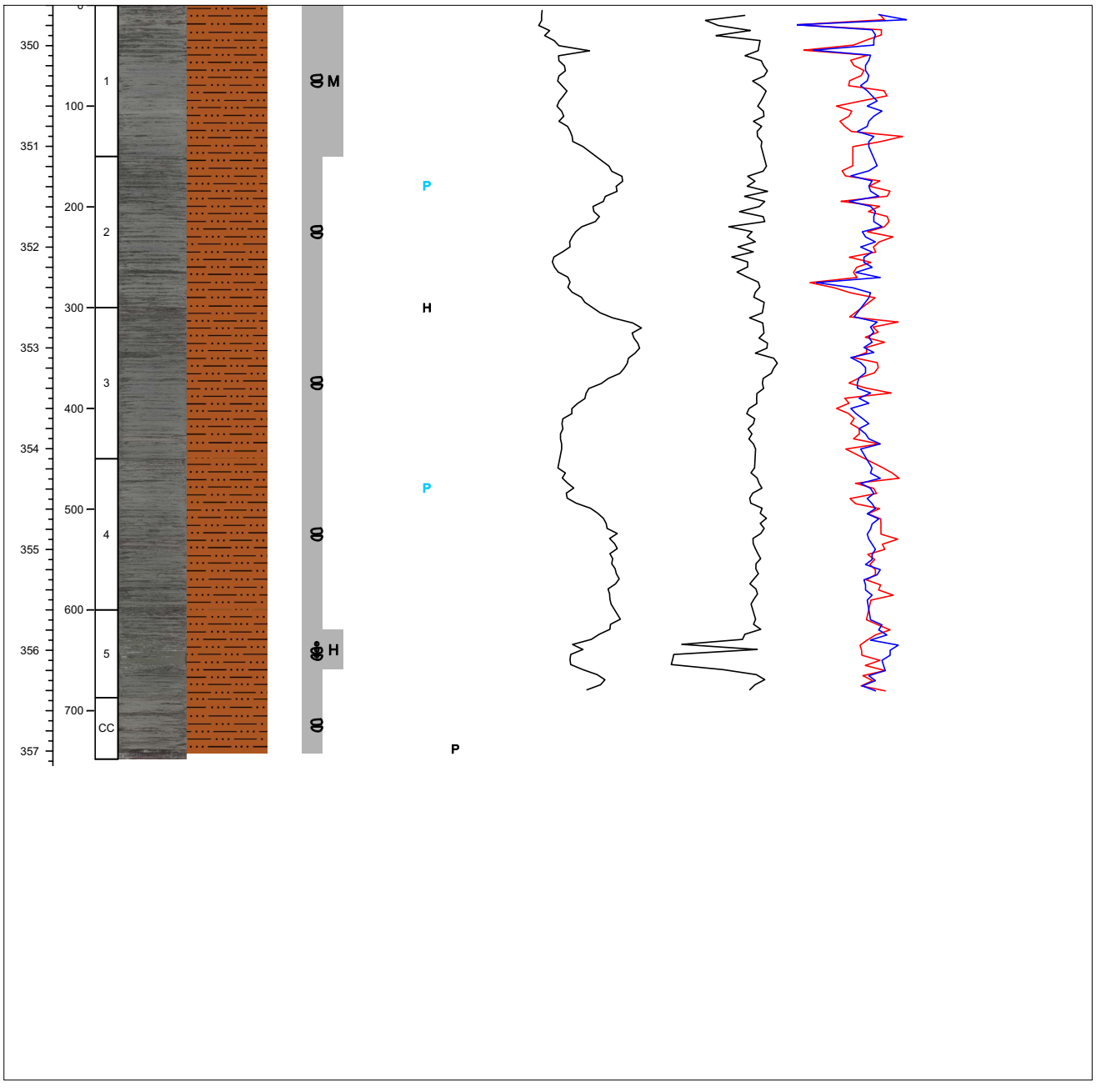
Major lithology is diatom-bearing clayey silt (very dark gray 3/N). A sandy layer occurred in Section 4 (32-53cm). An authigenic carbonate-rich bed occurred in Section 4 (32-53cm).



Core Photo

Hole 323-U1344A Core 38X, Interval 349.6-357.08m (CSF-A)

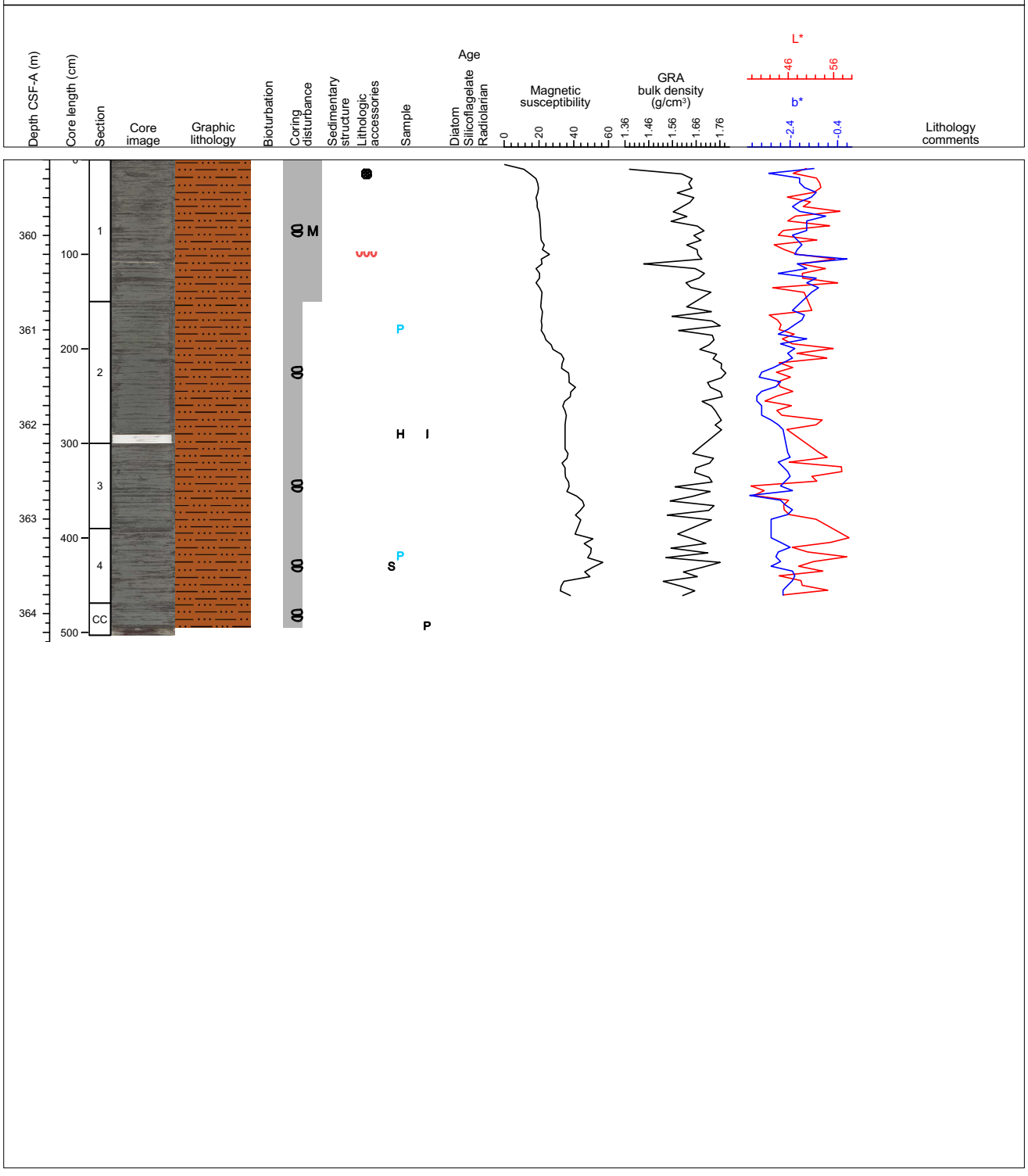
The main lithology is very dark grey silty clay. Bioturbation is not visible. The core shows moderate drilling disturbance (biscuits) throughout.



Core Photo

Hole 323-U1344A Core 39X, Interval 359.2-364.23m (CSF-A)

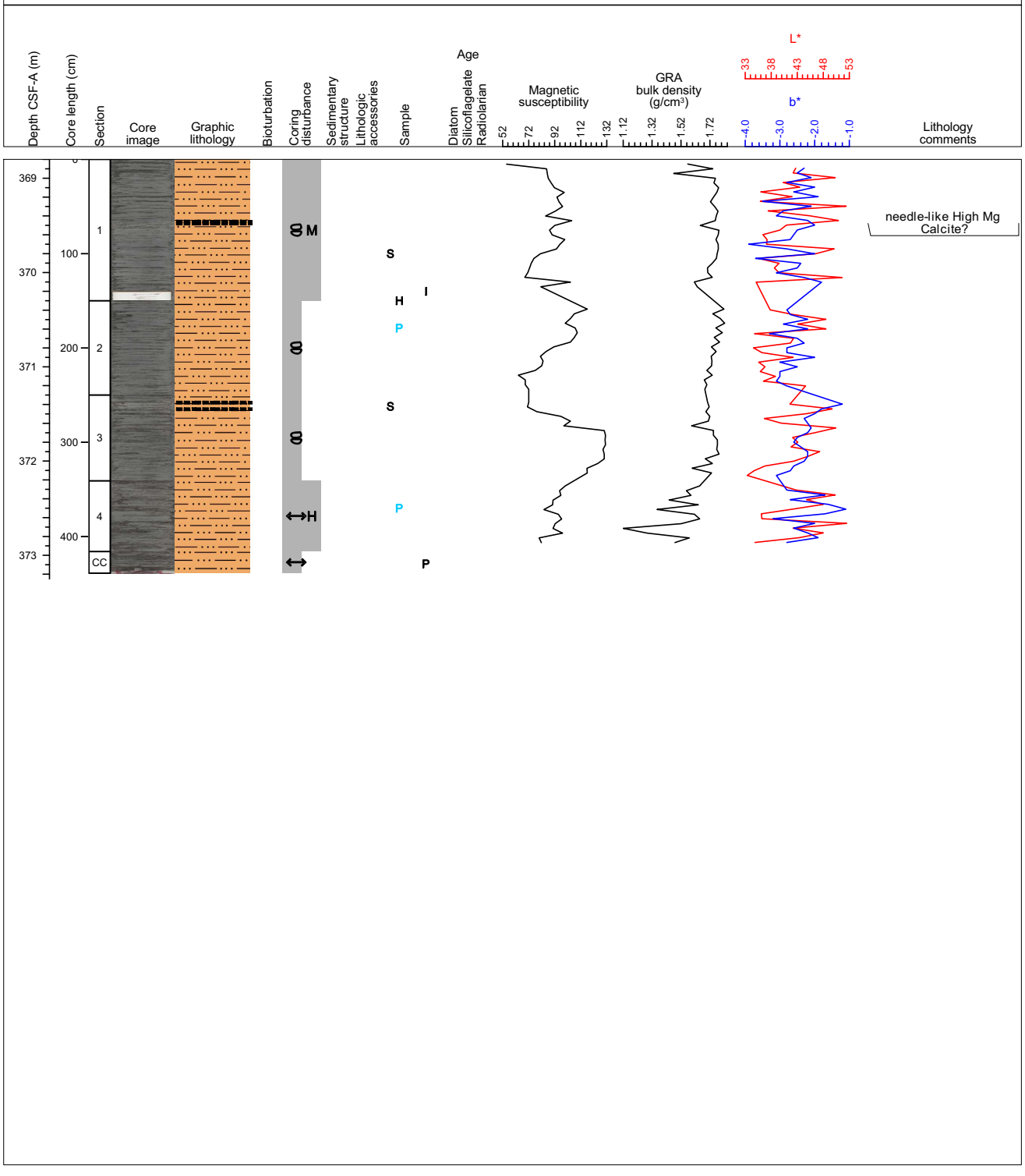
The main lithology is very dark greenish gray diatom-rich silty clay. A large, well rounded pebble (probably basalt) occurs on top of section 1. Two volcanic ash layers occur juxtaposed in section 1, a black one occurs between 100 and 104 cm and a white one between 104 and 106. The core shows drilling disturbance (biscuits) throughout.



Core Photo

Hole 323-U1344A Core 40X, Interval 368.8-373.19m (CSF-A)

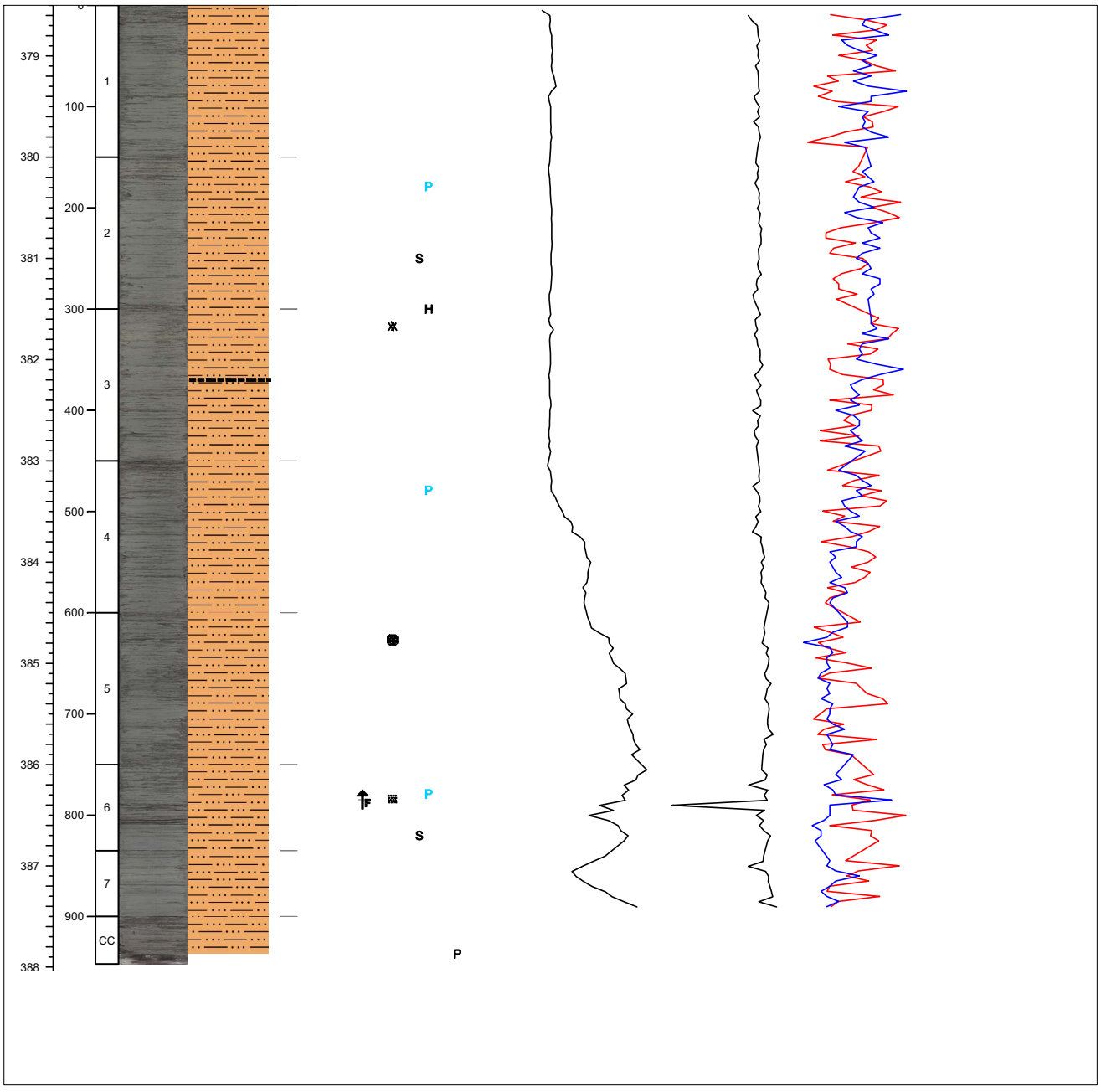
Major lithology: black diatom-bearing clayey silt. Secondary lithology: dark greenish gray authigenic carbonate- and diatom-rich clayey silt. The two lighter, authigenic carbonate-rich intervals occur in sections 1 and 3. Pyrite streaks and mottles are seen throughout. Drilling disturbance is moderate to severe due to biscuiting and gas expansion.



Core Photo

Hole 323-U1344A Core 41X, Interval 378.5-387.97m (CSF-A)

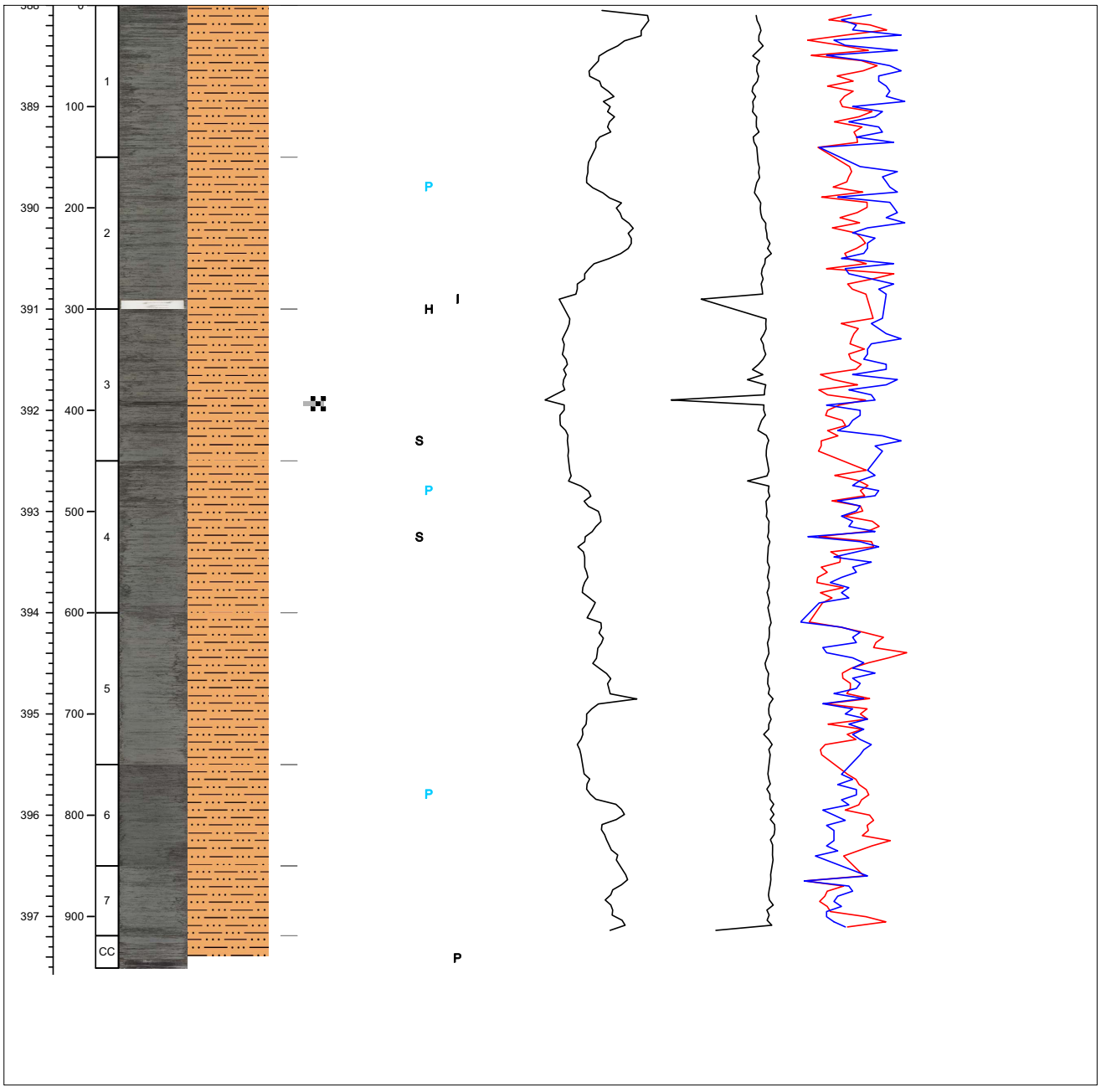
Major lithology: diatom-rich clayey silt (very dark greenish gray 5GY 3/1); diatom-bearing clayey silt (very dark gray 3/N). A sandy layer occrred in Section 6 (34-35cm) and a black rouded pebble (2cm) occurred in Section 5 (27-29cm).



Core Photo

Hole 323-U1344A Core 42X, Interval 388.0-397.51m (CSF-A)

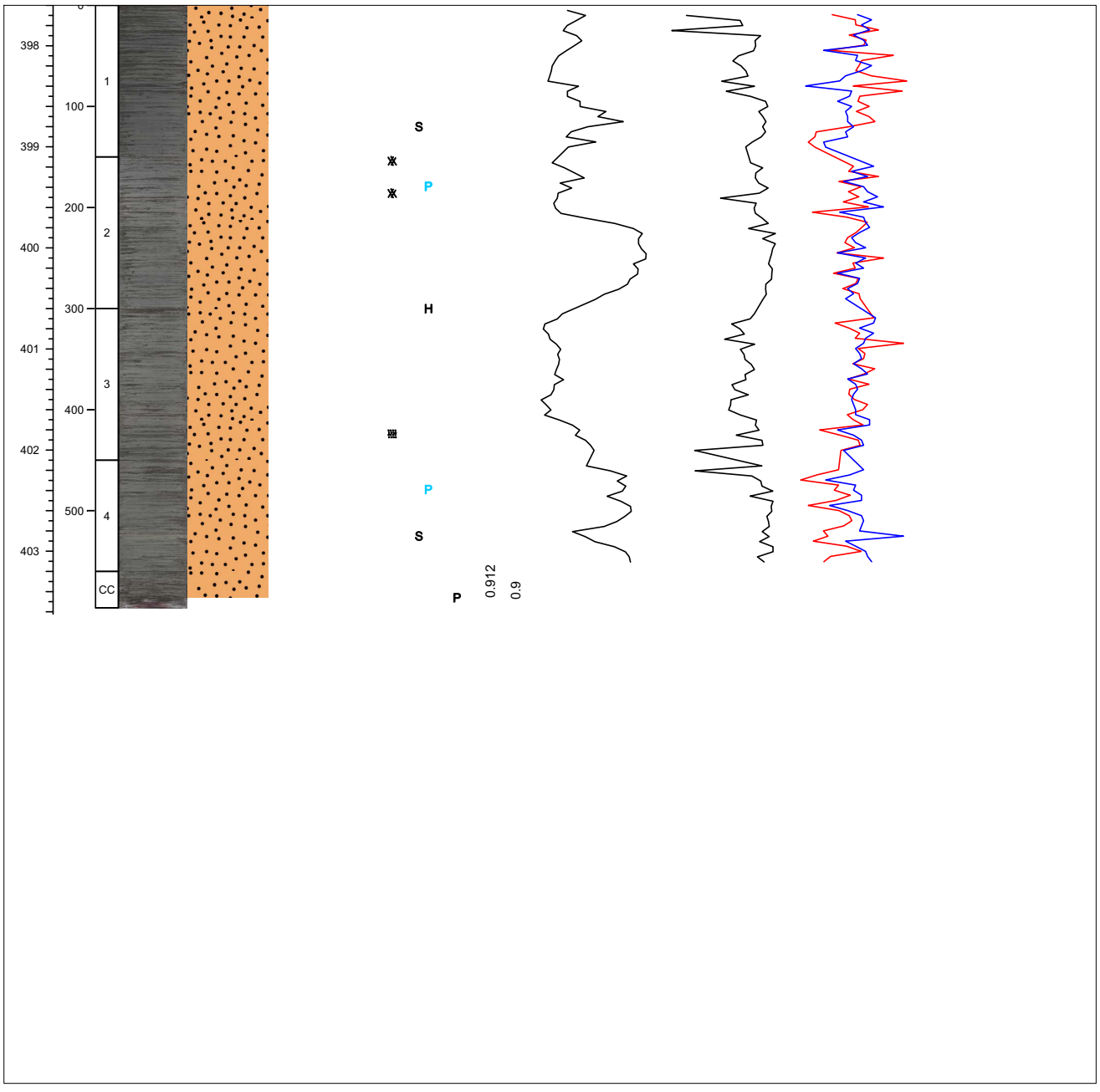
Major lithology: homogeneous diatom-rich clayey silt (very dark greenish gray 10Y 3/1).



Core Photo

Hole 323-U1344A Core 43X, Interval 397.6-403.56m (CSF-A)

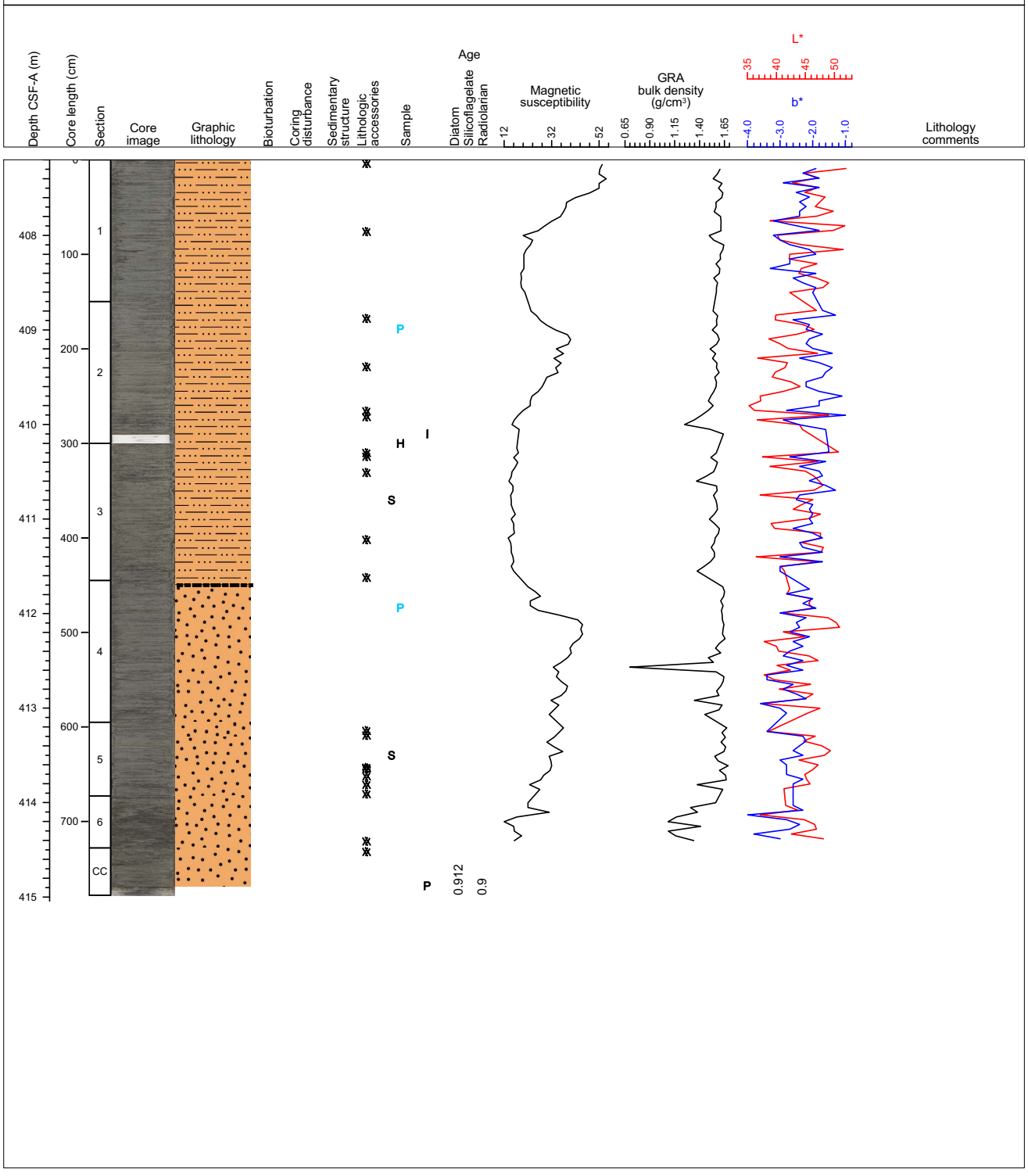
Major lithologies: Soft, dark gray diatom-bearing silt; sandy mottles and bioturbated thin sandy layer in section 3; bioturbation not visible; moderate XCB-typical drilling disturbance



Core Photo

Hole 323-U1344A Core 44X, Interval 407.2-414.98m (CSF-A)

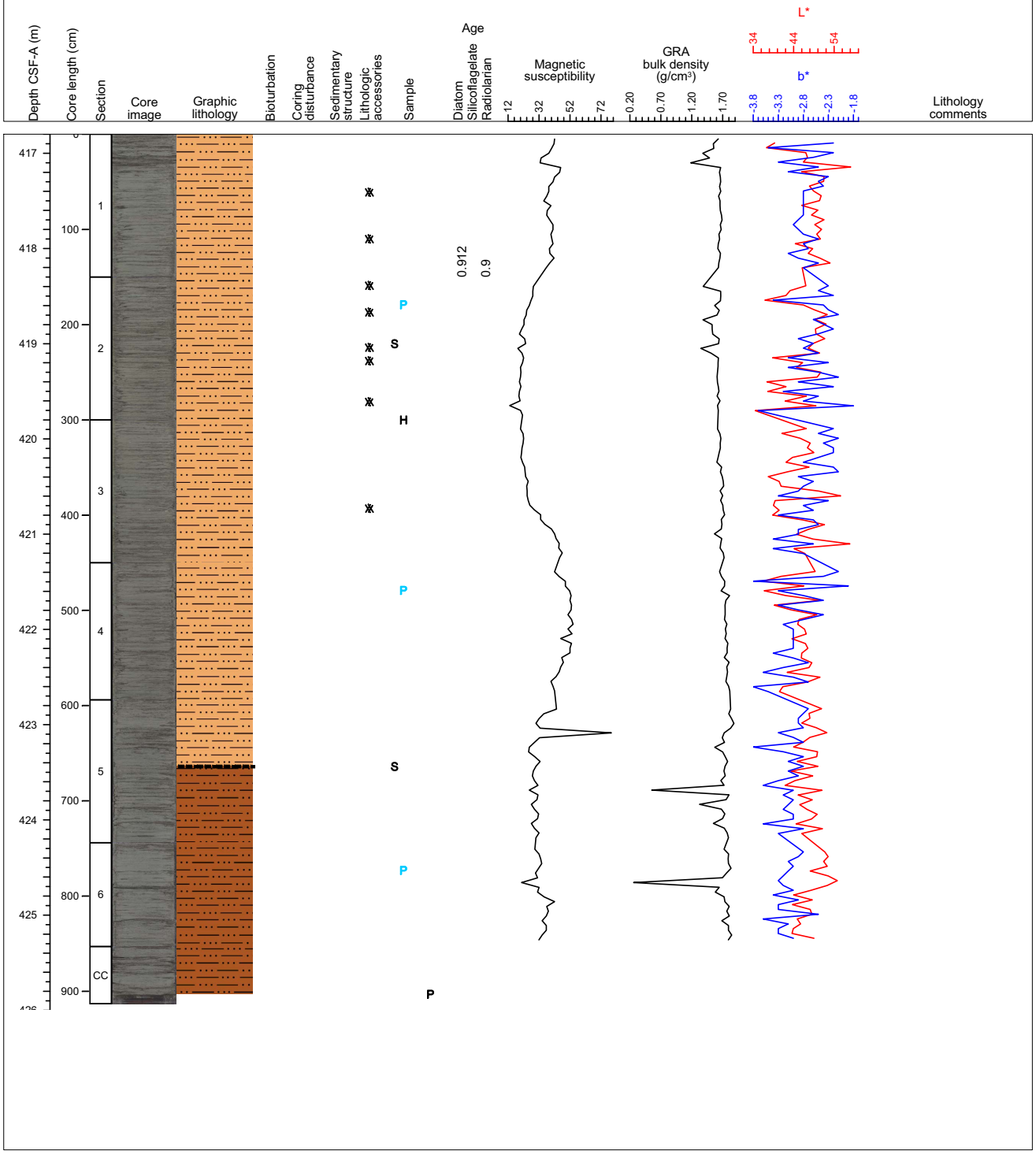
Major lithologies: Soft, dark gray to dark greenish gray diatom-rich silt and diatom-rich clayey silt; sponge spicule aggregates throughout most of the core; sandy patches and bioturbated layer in section 5: bioturbation not visible due to XCB coring; slight drilling disturbance, section 6 heavily disturbed



Core Photo

Hole 323-U1344A Core 45X, Interval 416.8-425.93m (CSF-A)

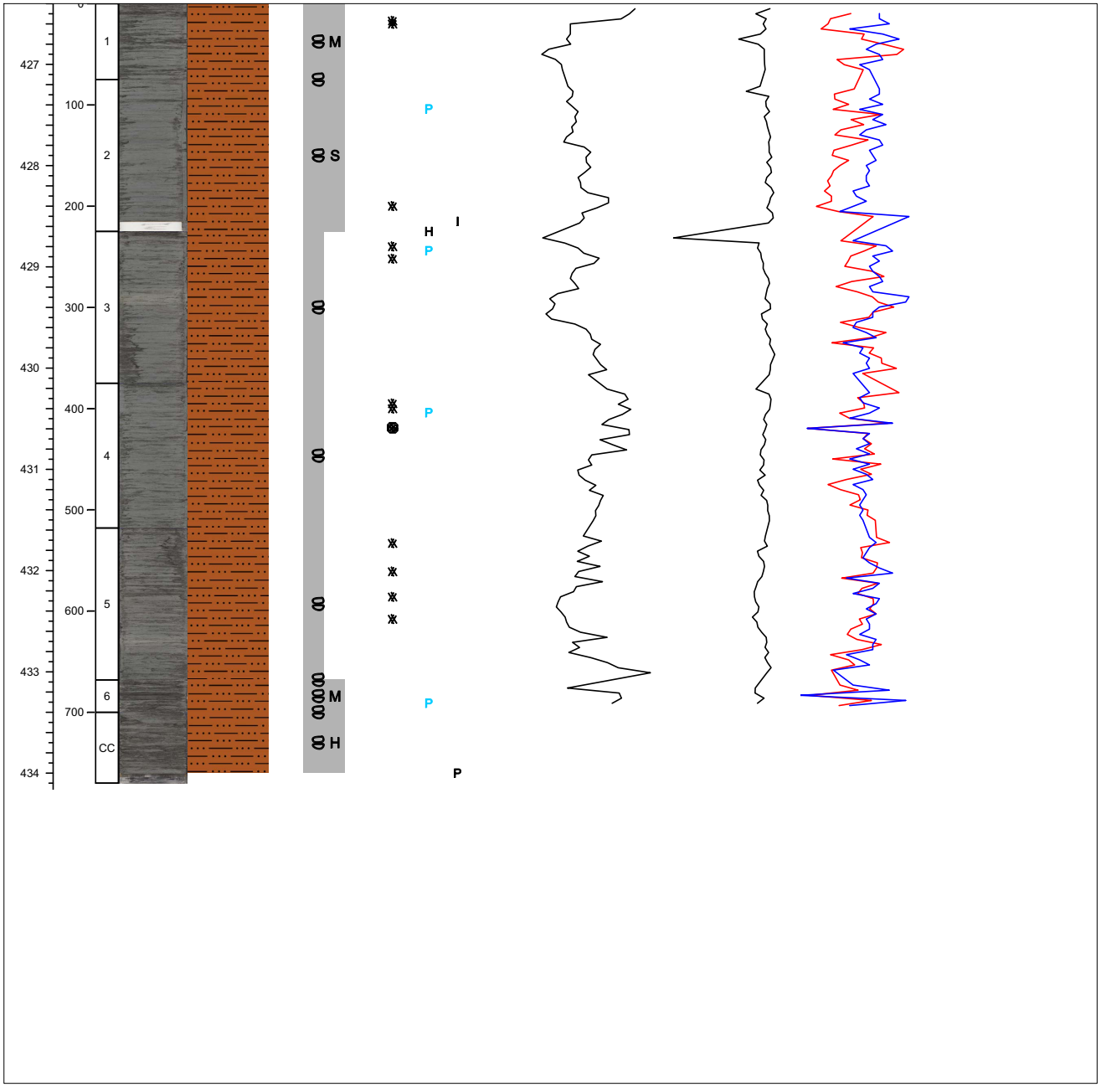
Major lithologies: Soft, dark gray to dark greenish gray diatom-rich silty clay and diatom-rich clayey silt; sponge spicule aggregates in sections 1, 2 and 3; sandy mottles in sections 6 and CC; bioturbation invisible due to XCB coring; slight to moderate drilling disturbance



Core Photo

Hole 323-U1344A Core 46X, Interval 426.4-434.1m (CSF-A)

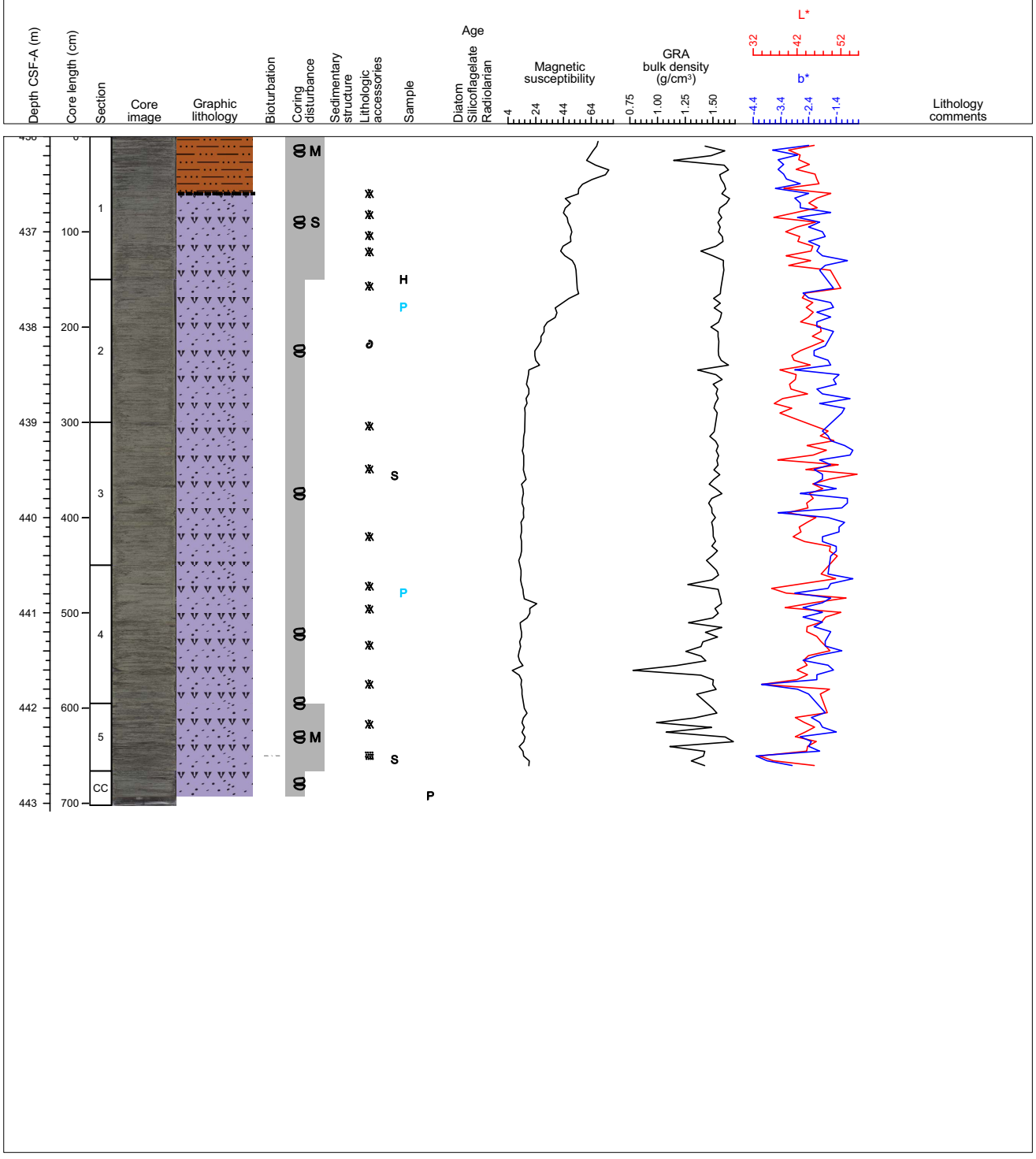
Main lithology is greenish black diatom-rich silty clay. There are sponge spicule aggregates and small sandy mottles throughout the core. Bioturbation is absent. Driling disturbance varies from slight to severe.



Core Photo

Hole 323-U1344A Core 47X, Interval 436.0-443.02m (CSF-A)

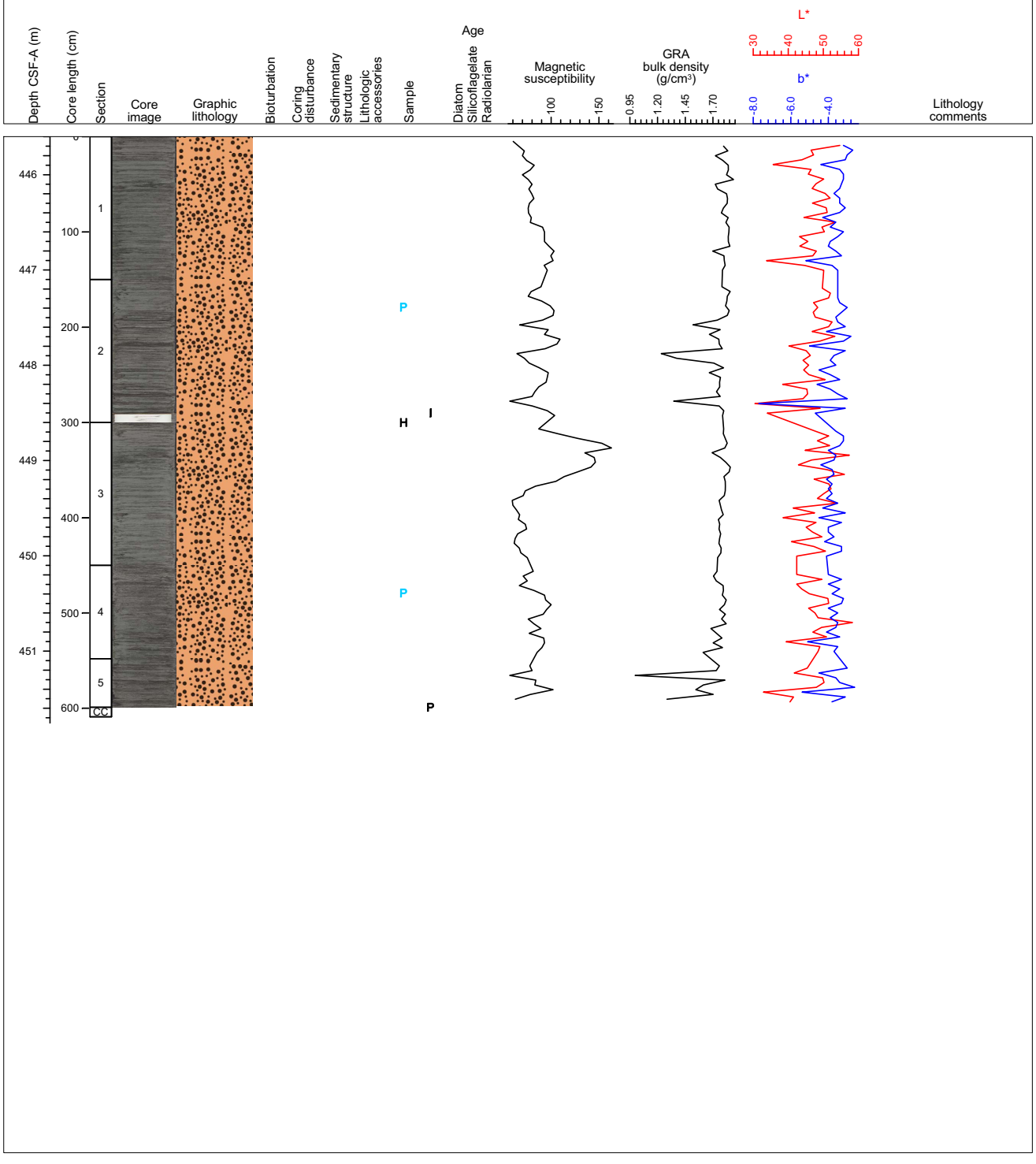
The main lithologies are greenish black diatom-rich silty clay and very dark greenish grey diatom ooze. The boundary is gradational. There are sponge spicule aggregates throughout the core and a shell fragment in section 2. Bioturbation is absent. Drilling disturbance varies from slight to moderate.



Core Photo

Hole 323-U1344A Core 48X, Interval 445.6-451.69m (CSF-A)

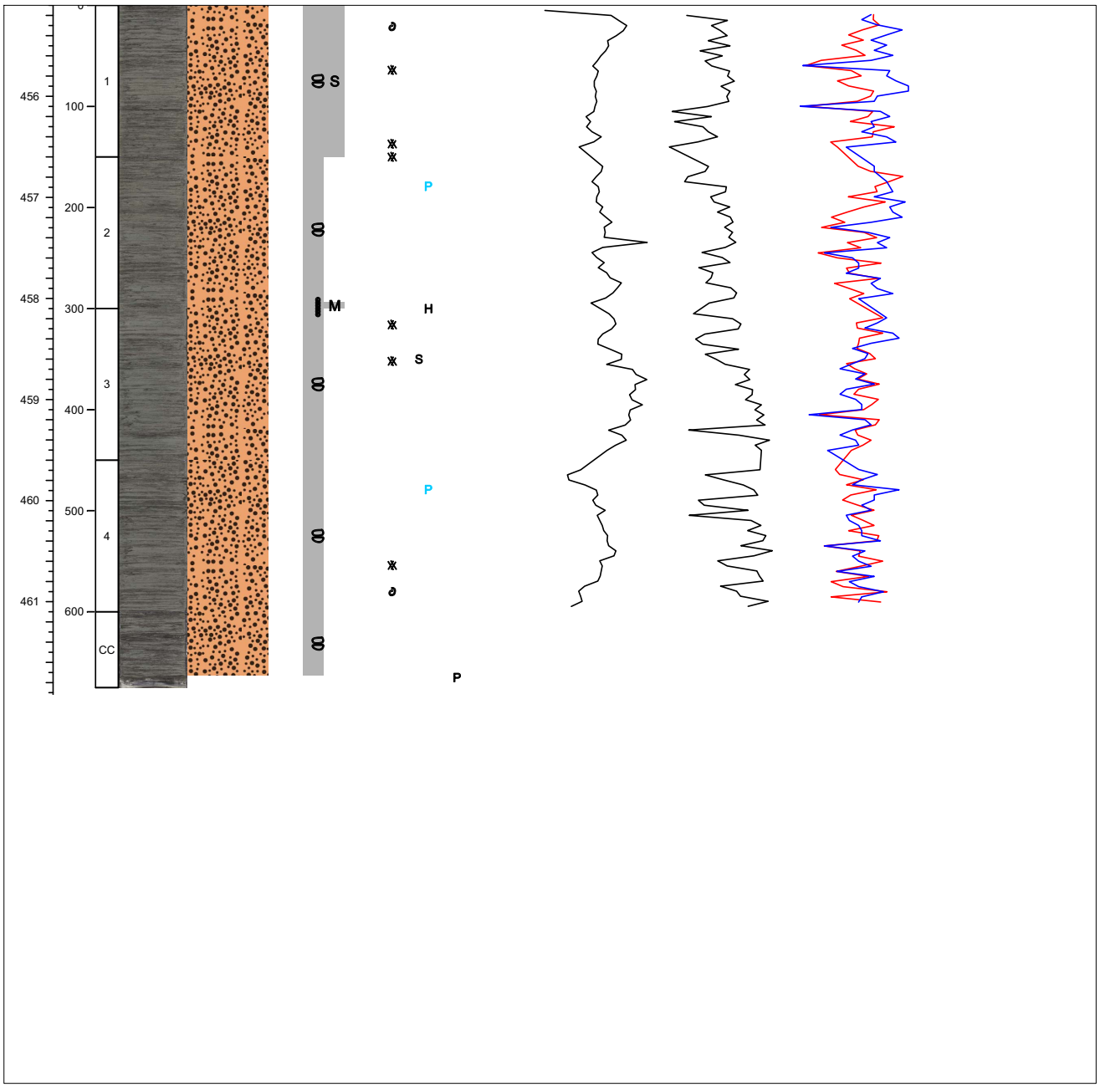
Major lithologies: Soft, dark gray diatom-rich sandy silt; bioturbation not visible due to XCB coring; slight drilling disturbance, section 5 heavily disturbed



Core Photo

Hole 323-U1344A Core 49X, Interval 455.1-461.85m (CSF-A)

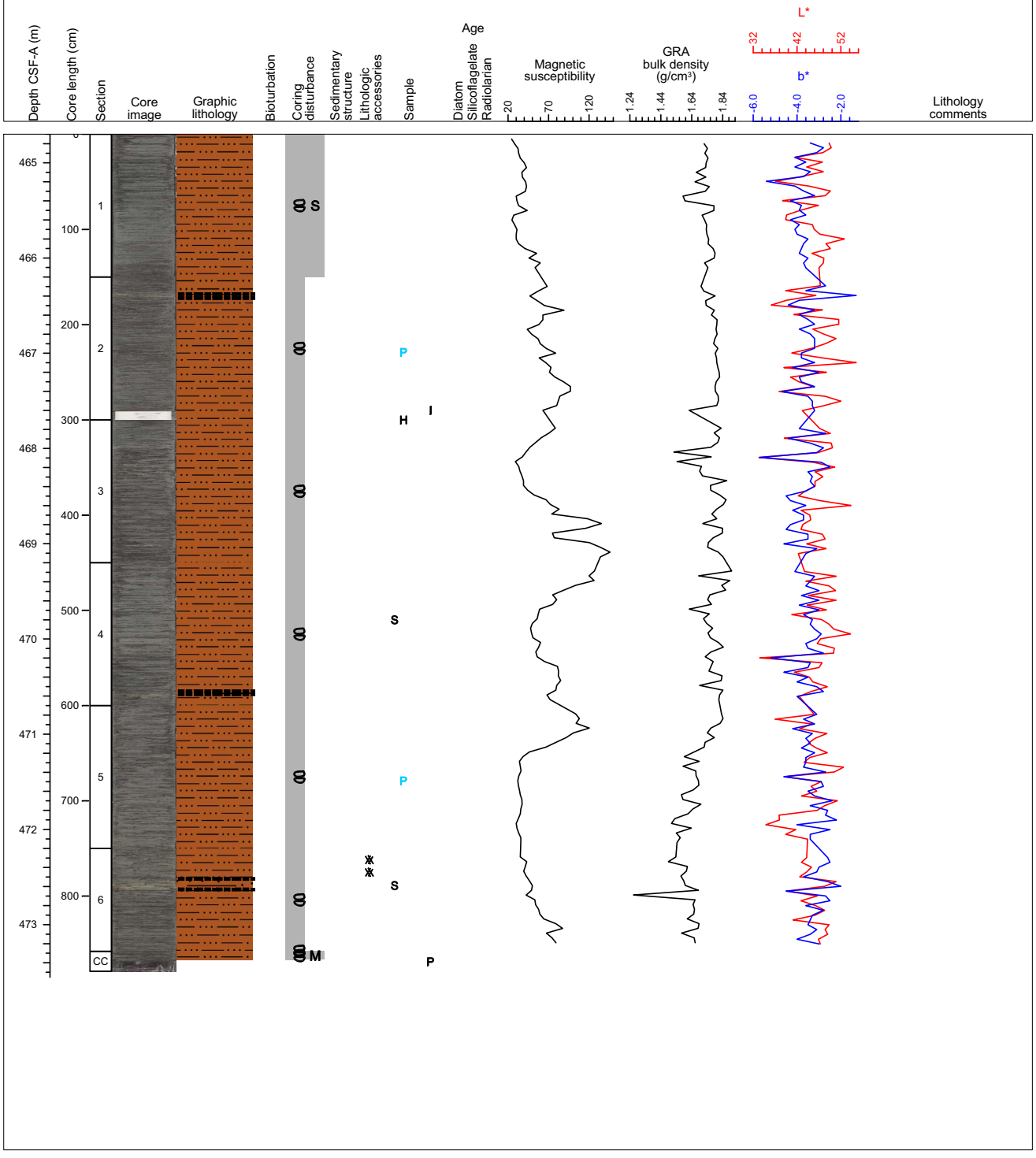
Main lithology is greenish black diatom-rich sandy silt with small sponge spicule aggregates through sections 1-4. There are shell fragments in sections 1 and 4. Bioturbation is absent. The core is disturbed by biscuiting.



Core Photo

Hole 323-U1344A Core 50X, Interval 464.7-473.49m (CSF-A)

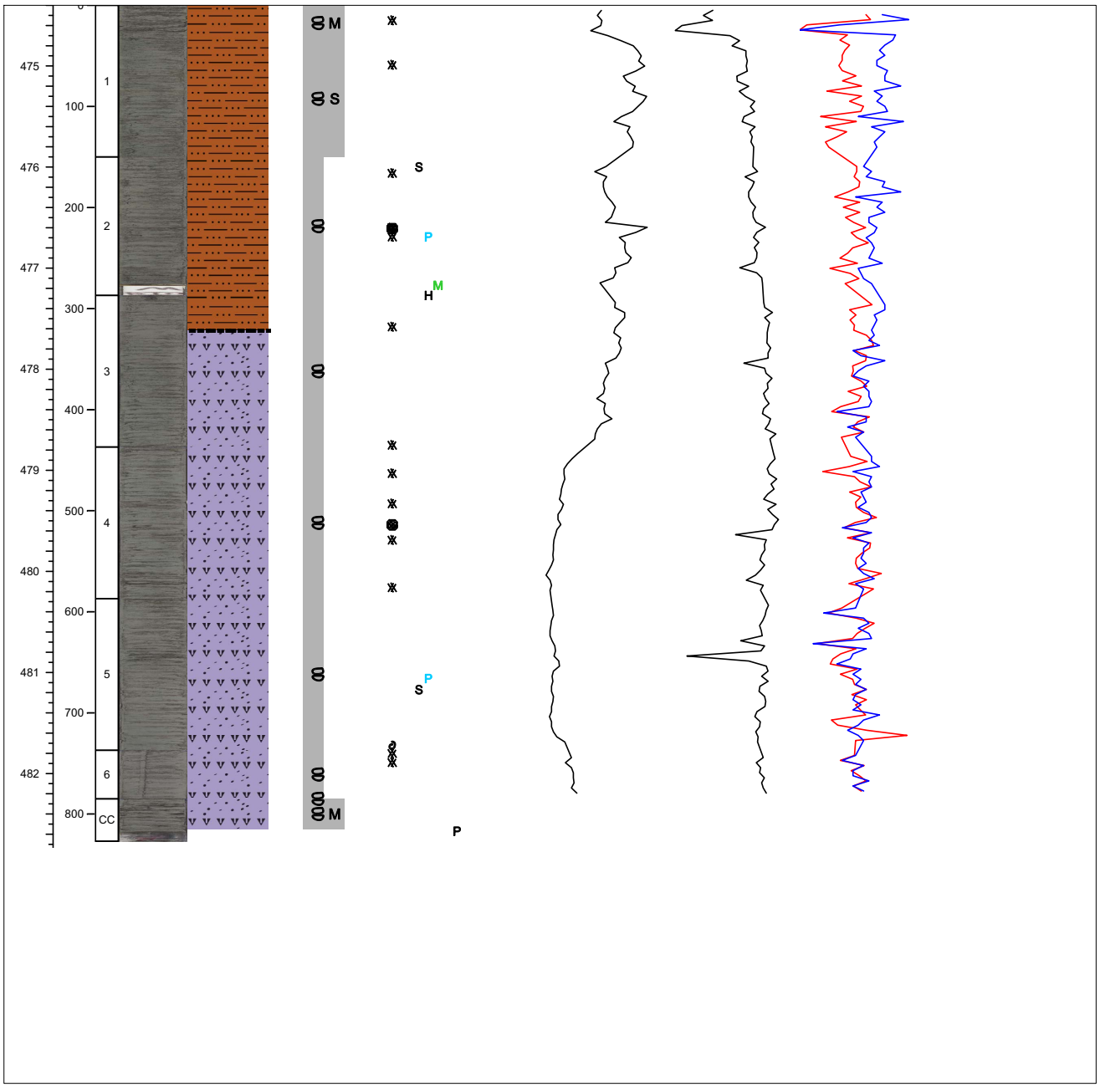
The main lithology is greenish black diatom-bearing silty clay. There are layers of authigenic carbonate-rich diatom-rich sandy clay in sections 2, 4 and 6. Boundaries are gradational. There are sponge spicule aggregates in section 6. Bioturbation is not visible and drilling disturbance is slight except in the core catcher which has moderate disturbance.



Core Photo

Hole 323-U1344A Core 51X, Interval 474.4-482.67m (CSF-A)

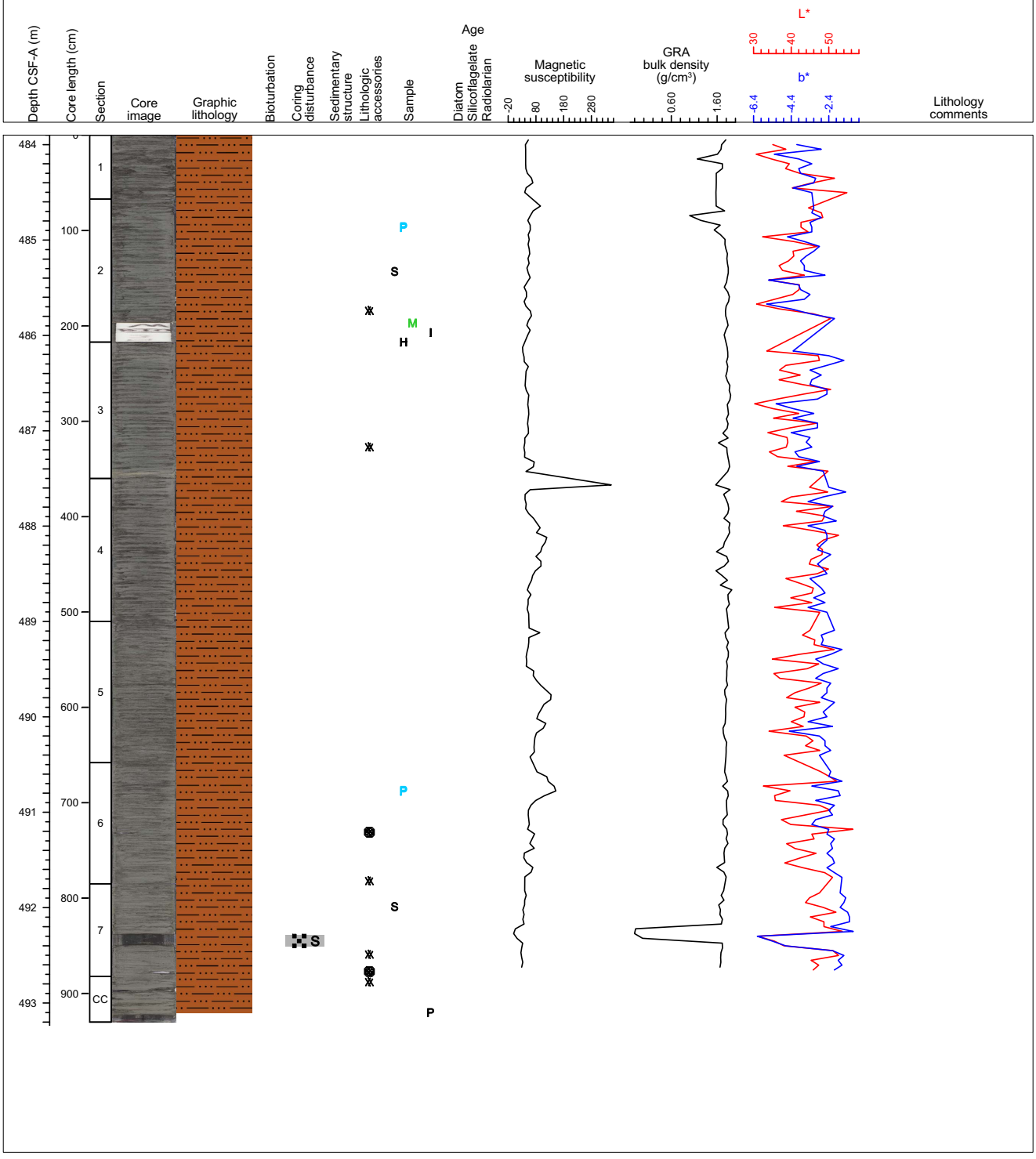
The main lithologies are very dark grey diatom-rich silty clay and diatom silt. The boundary is gradational. There are sponge spicule aggregates throughout the core, rounded black clasts in sections 2 and 4 and a sandy lamina in section 2. Bioturbation is not visible. Coring disturbance is slight to moderate.



Core Photo

Hole 323-U1344A Core 52X, Interval 483.9-493.2m (CSF-A)

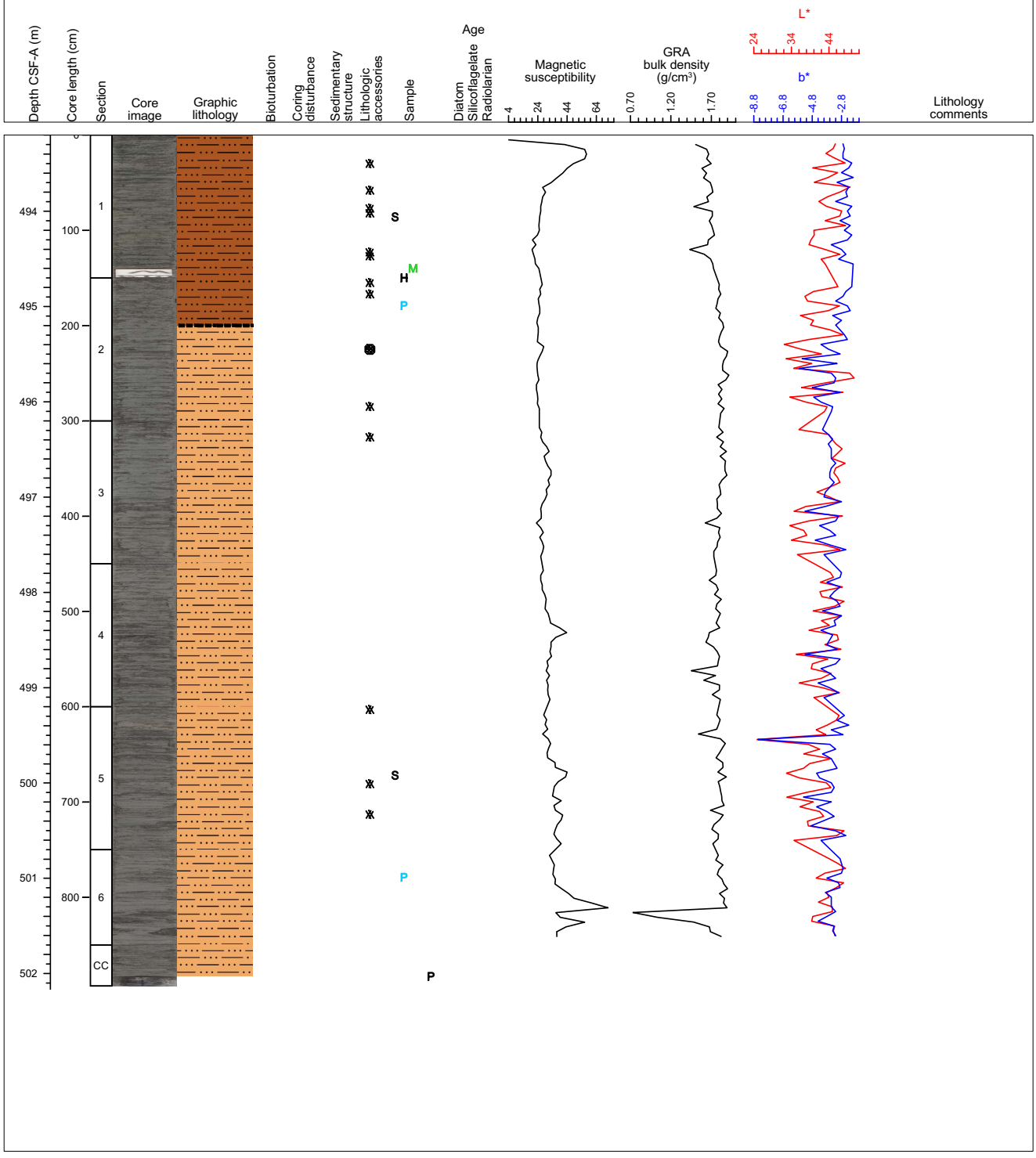
Major lithologies: Soft, dark gray to dark greenish gray diatom-rich silty clay; sandy mottles in section 3; sponge spicule aggregates in sections 2, 3, 6, 7 and CC; authigenic carbonate patches in section 3; clasts in sections 6 and 7; bioturbation not visible due to XCB coring; slight drilling disturbance, section 1 heavily disturbed



Core Photo

Hole 323-U1344A Core 53X, Interval 493.2-502.13m (CSF-A)

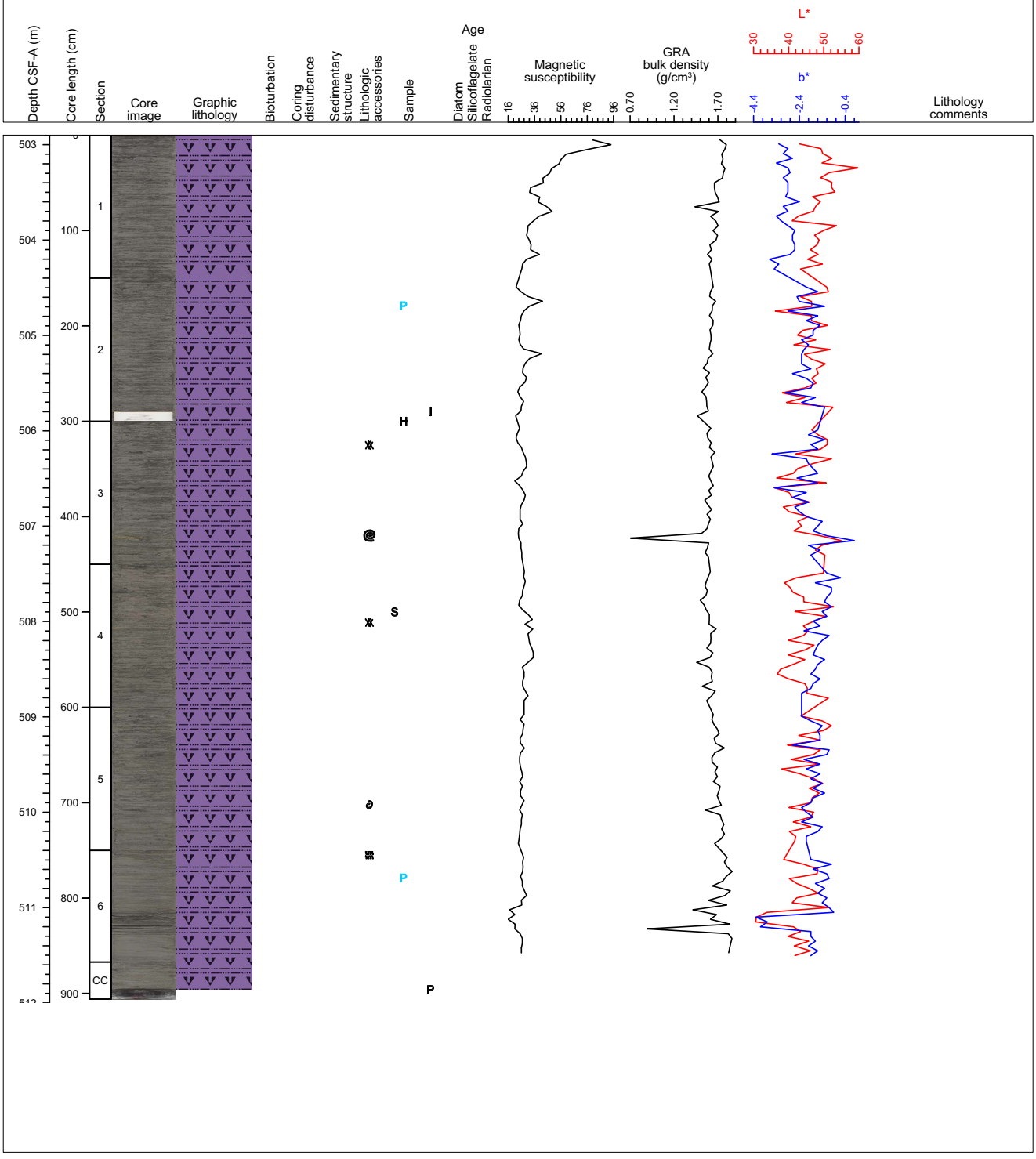
Major lithologies: Soft, very dark gray to dark greenish gray diatom-rich silty clay and diatom-bearing clayey silt; sponge spicule aggregates in sections 1, 2 and 5; authigenic carbonate-rich interval in section 5; bioturbation not visible due to XCB coring; slight drilling disturbance



Core Photo

Hole 323-U1344A Core 54X, Interval 502.9-511.96m (CSF-A)

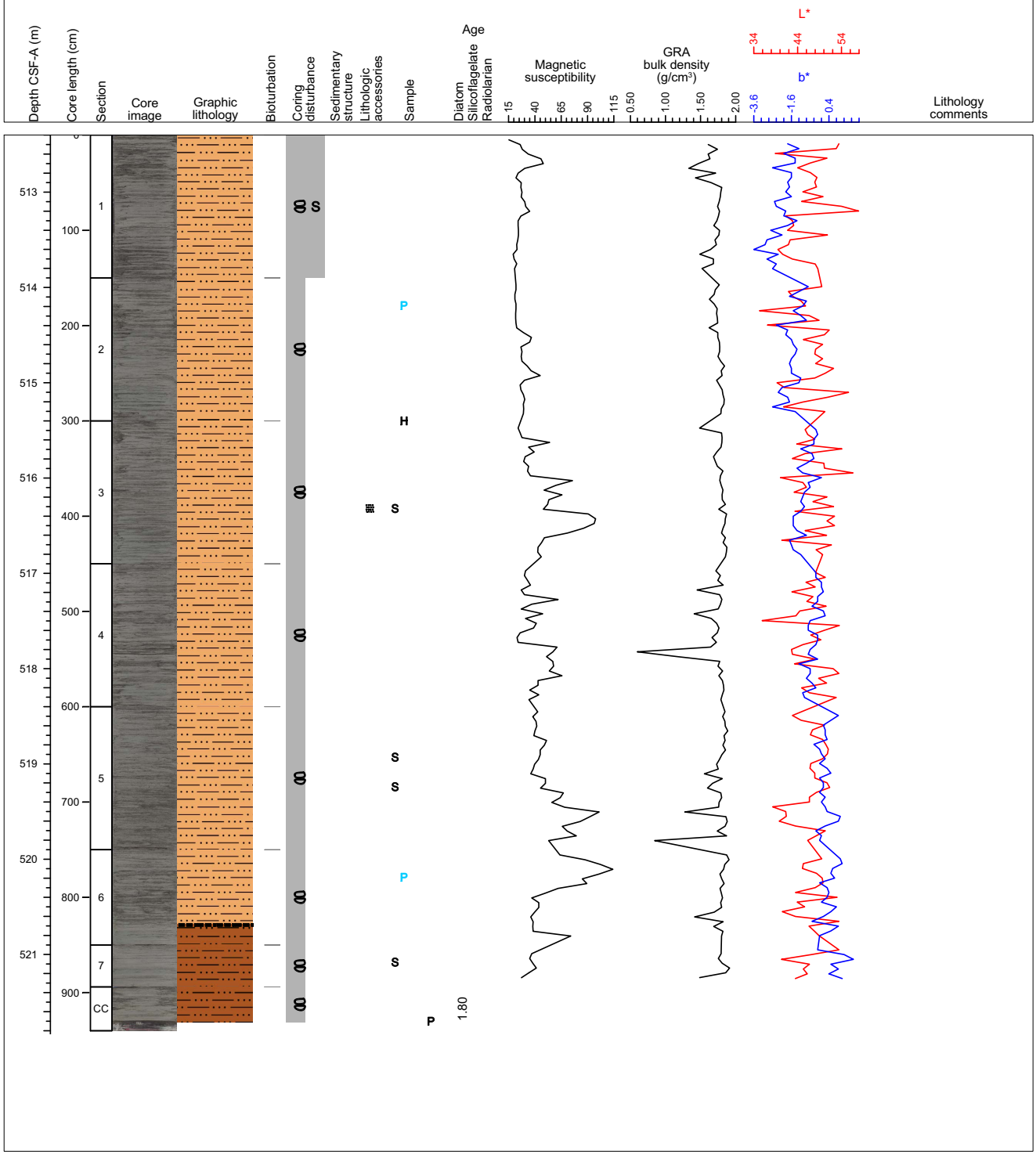
Major lithologies: Soft, dark greenish gray diatom silty clay; small dolostone nodule in section 3; shell fragment in section 5; bioturbated sandy layer and small sandy mottles in section 6; bioturbation not visible due to XCB coring; slight drilling disturbance



Core Photo

Hole 323-U1344A Core 55X, Interval 512.4-521.8m (CSF-A)

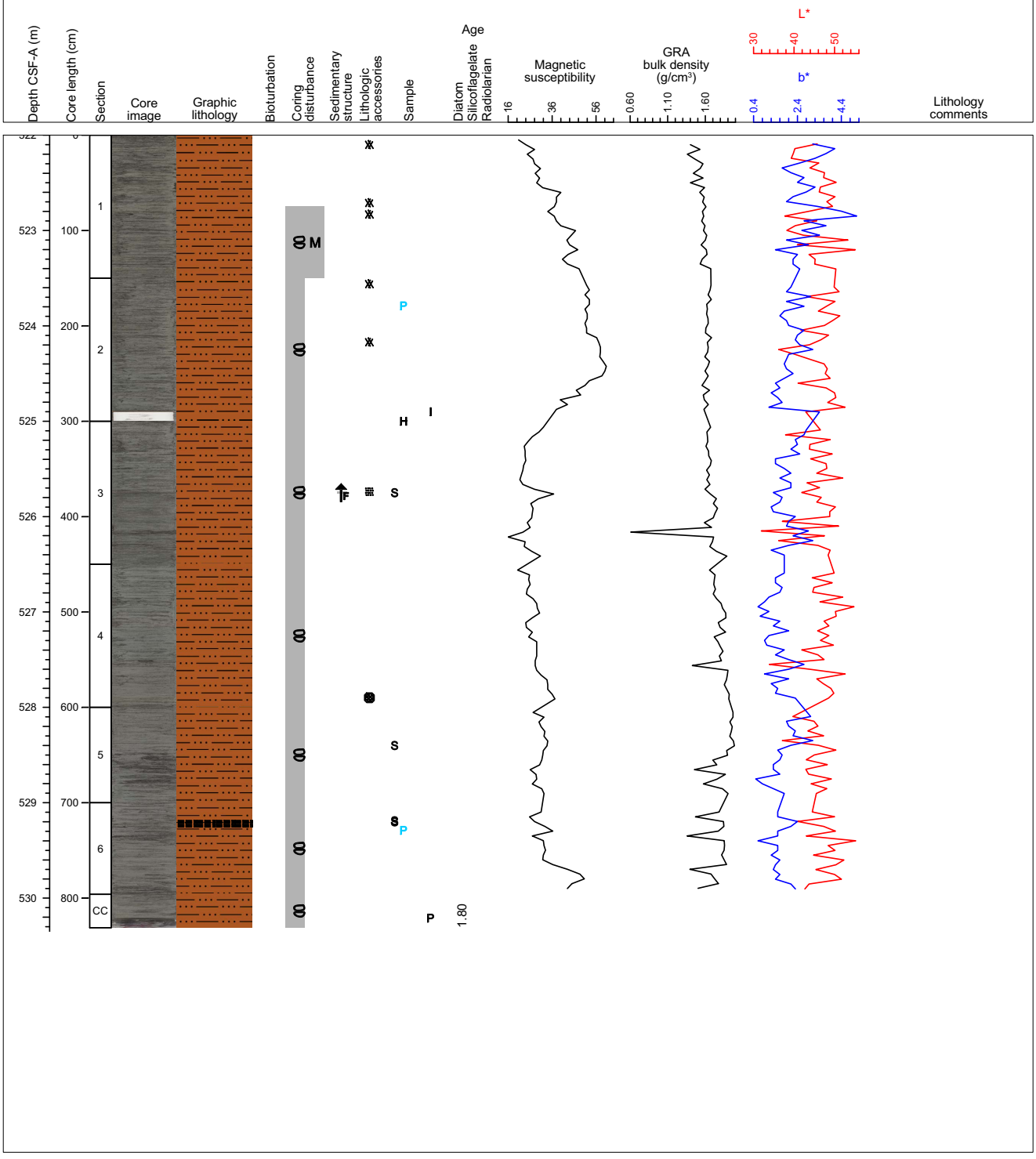
Major lithology: diatom-rich clayey silt (very dark gray 3/N) from Section 1 to Sction 6 (79cm); diatom-rich silty clay (dark greenish gray 10Y 4/1) from Section 6 to CC. Silty sand layer occurred in Section 3 (92-93cm).



Core Photo

Hole 323-U1344A Core 56X, Interval 522.0-530.31m (CSF-A)

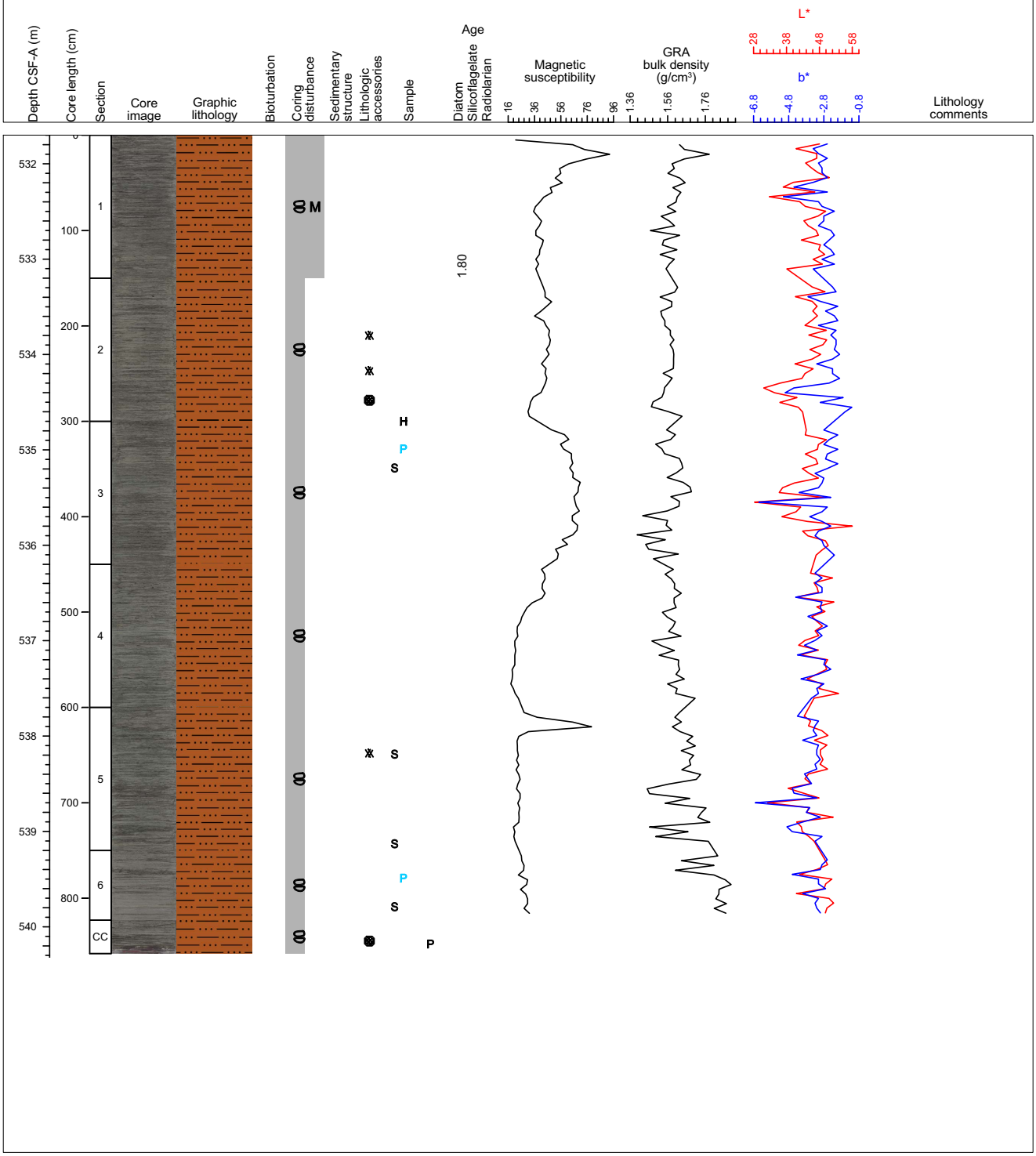
Major lithologies: very dark greenish gray diatom-bearing silty clay and diatom-rich silty clay. Gradational boundaries exist between the 2 lithologies. One fining upwards sand layer is present in section 3 just above an isolated pebble. Bioturbation is not apparent due to biscuting from drilling disturbance. The top half of section 1 was extruded onto the rig floor.



Core Photo

Hole 323-U1344A Core 57X, Interval 531.7-540.28m (CSF-A)

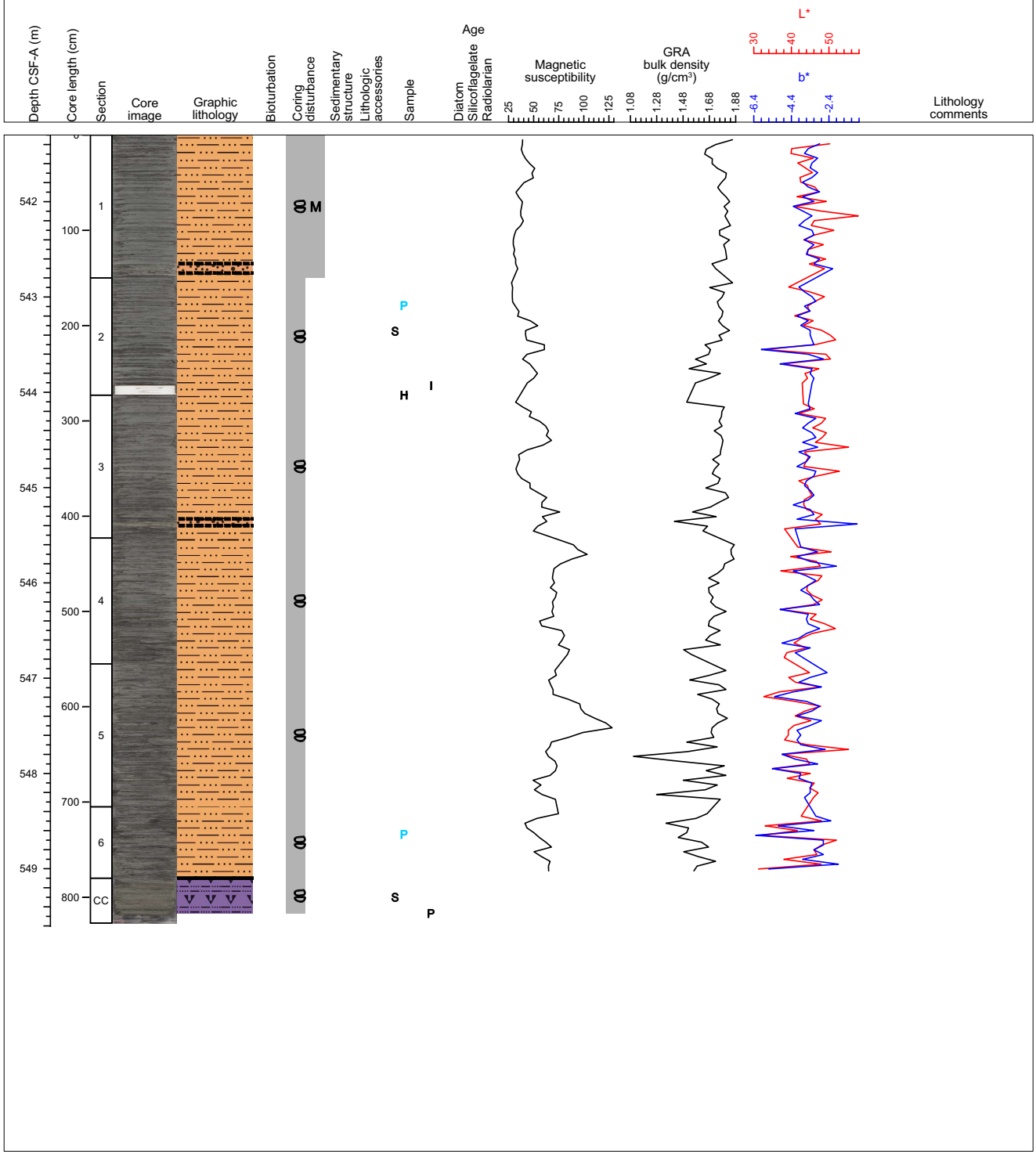
Major lithology: very dark greenish gray diatom-rich silty clay. Authigenic carbonates are present intermittently in smear slides, but no obvious color or texture change is apparent except in section 5 from 140-143 cm. Light colored mottles occur throughout and may reflect high concentrations of authigenic carbonate. Drilling disturbance is moderate throughout with biscuiting. The top of core 1 was extruded onto the rig floor.



Core Photo

Hole 323-U1344A Core 58X, Interval 541.3-549.57m (CSF-A)

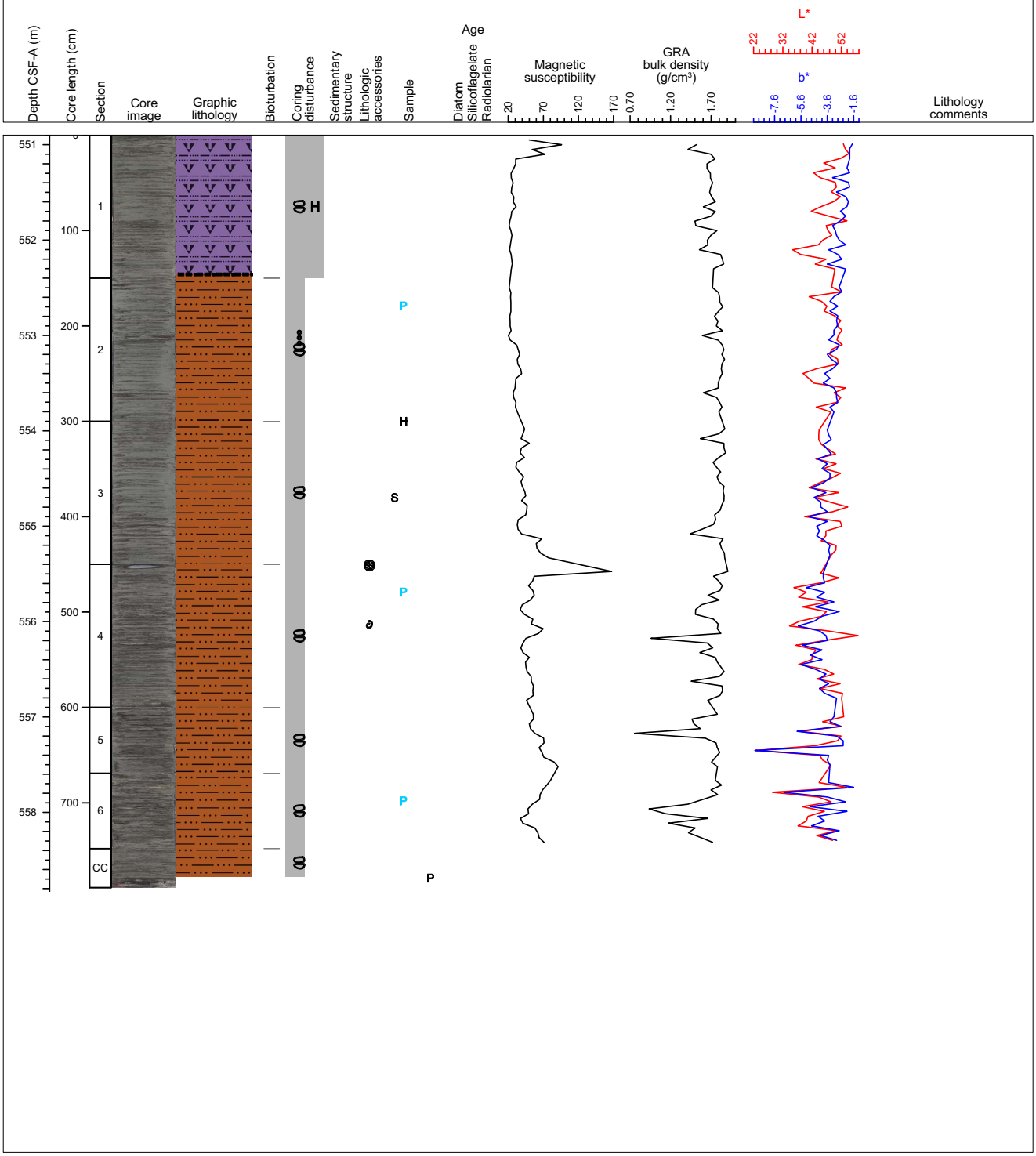
The main lithology is very dark gray diatom-rich clayey silt. A secondary lithology, very dark greenish gray diatom silty clay, appears only in the CC. Two greenish gray authigenic carbonate-rich layers about 10 cm thick were observed in sections 1 and 3. Drilling disturbance is moderate to severe.



Core Photo

Hole 323-U1344A Core 59X, Interval 550.9-558.79m (CSF-A)

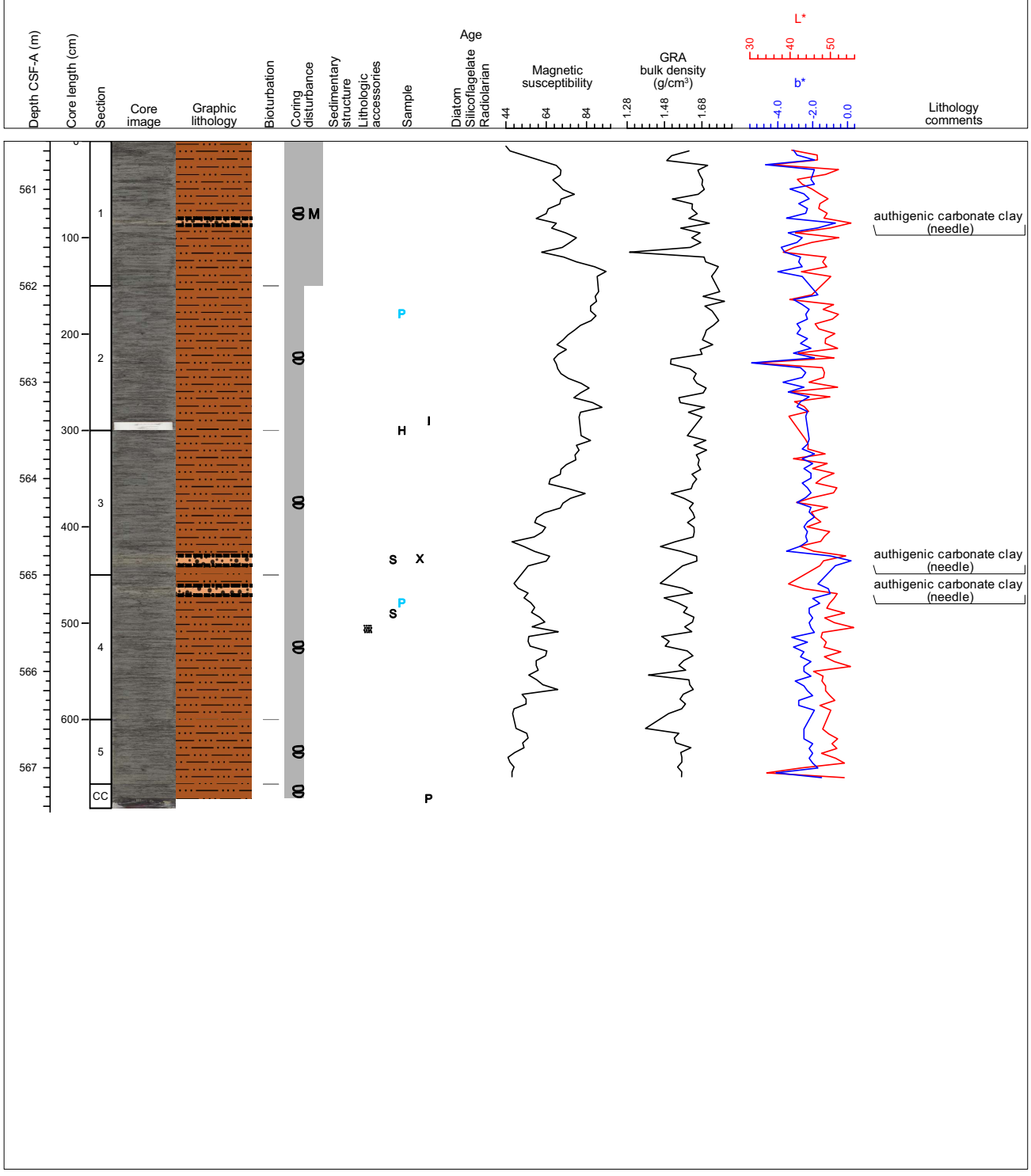
Major lithology is silty clay (very dark gray 3/N) from Section 2 to CC. Secondary lithology is diatom silty clay (very dark greenish gray 10Y 3/1). Authigenic carbonate concretion occurred in Section 4 (13-17cm). Drilling disturbance is moderate to severe.



Core Photo

Hole 323-U1344A Core 60X, Interval 560.5-567.42m (CSF-A)

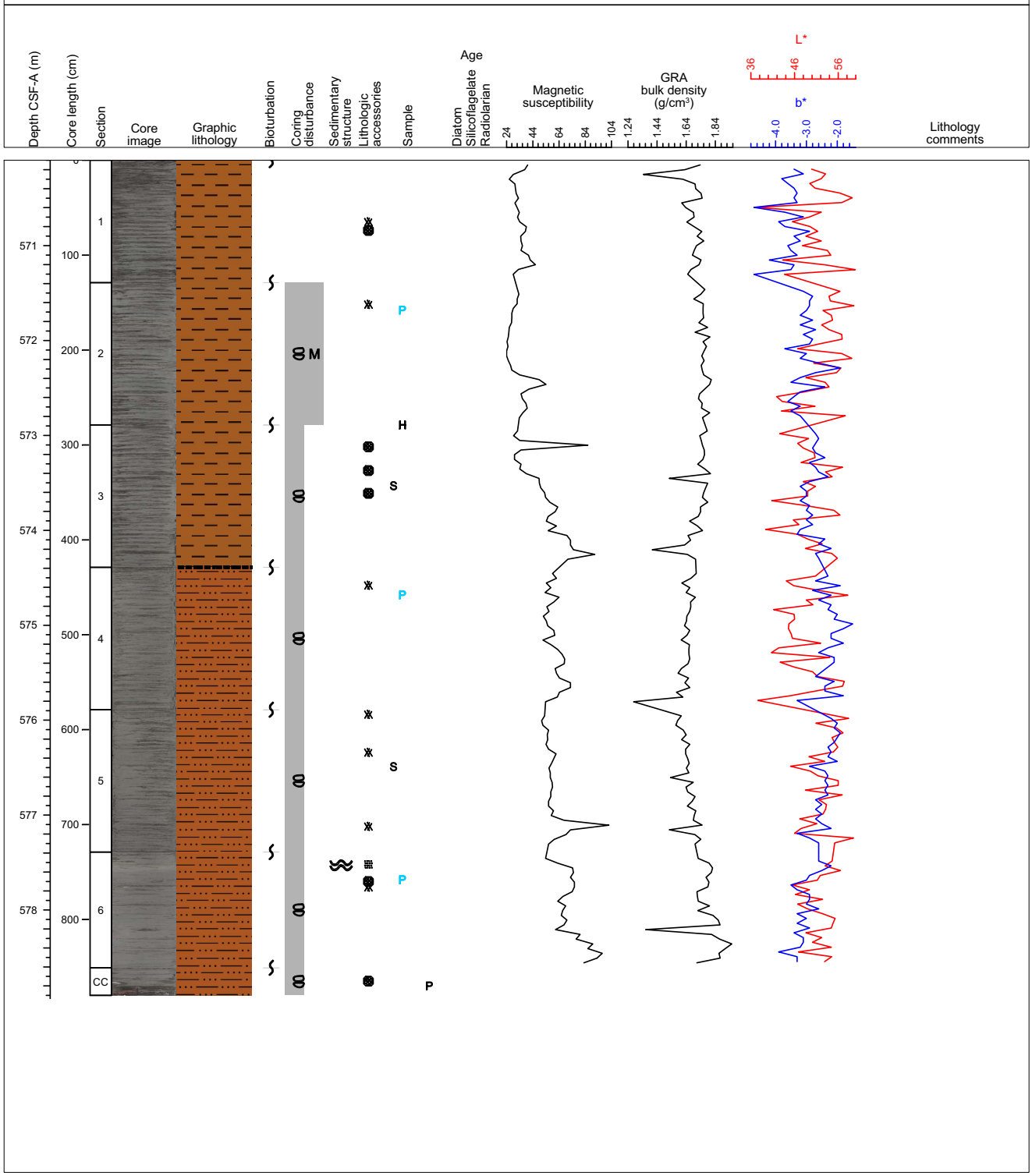
Major lithology:silty clay (very dark gray 10Y 4/1) from section 1 to Section 3 (130cm); diatom-rich silty clay (very dark greenish gray 10Y 3/1) from Section 3 to CC. Authigenic carbonate-rich clay layer ocurred in Section 1 (80-87cm); Section 3 (130-140cm); and Section 4 (11-21cm). Authigenic carbonate is needle shaped. Sandy layer occurred in Section 4 (56-57cm). Drilling disturbance is moderate to severe.



Core Photo

Hole 323-U1344A Core 61X, Interval 570.1-578.9m (CSF-A)

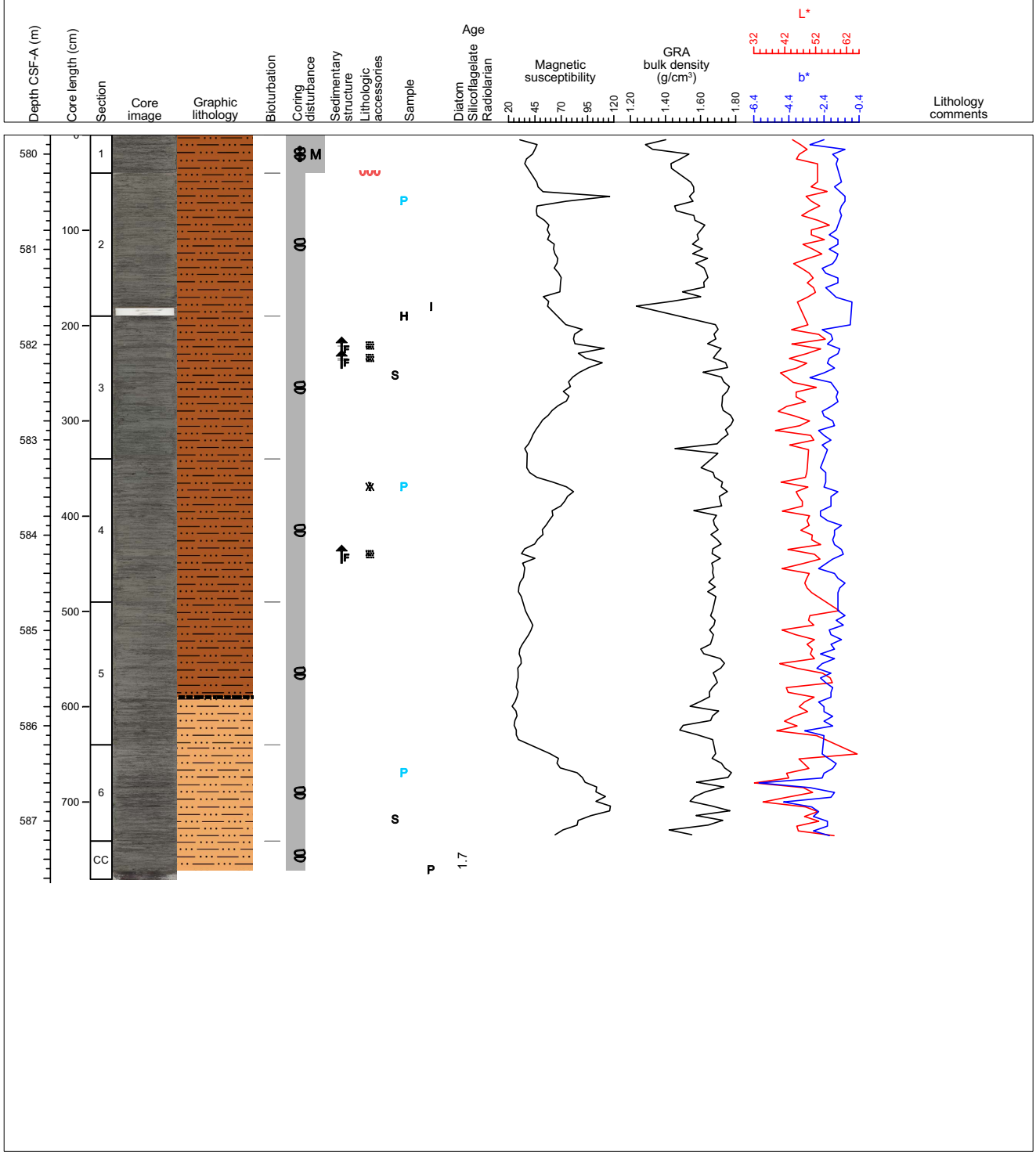
Major lithologies: greenish black diatom-bearing clay and dark greenish gray diatom-rich silty clay. The boundary between the 2 lithologies is gradational. Two 4 cm thick authigenic carbonate rich layers are present in section 2. Several pebbles and granules are found throughout. One thin sand layer is present in section 6. It has a sharp, undulating lower contact and a gradational, bioturbated upper contact. Drilling disturbance is moderate to severe throughout with biscuiting present throughout. Section 1 was extruded onto the rig floor.



Core Photo

Hole 323-U1344A Core 62X, Interval 579.8-587.61m (CSF-A)

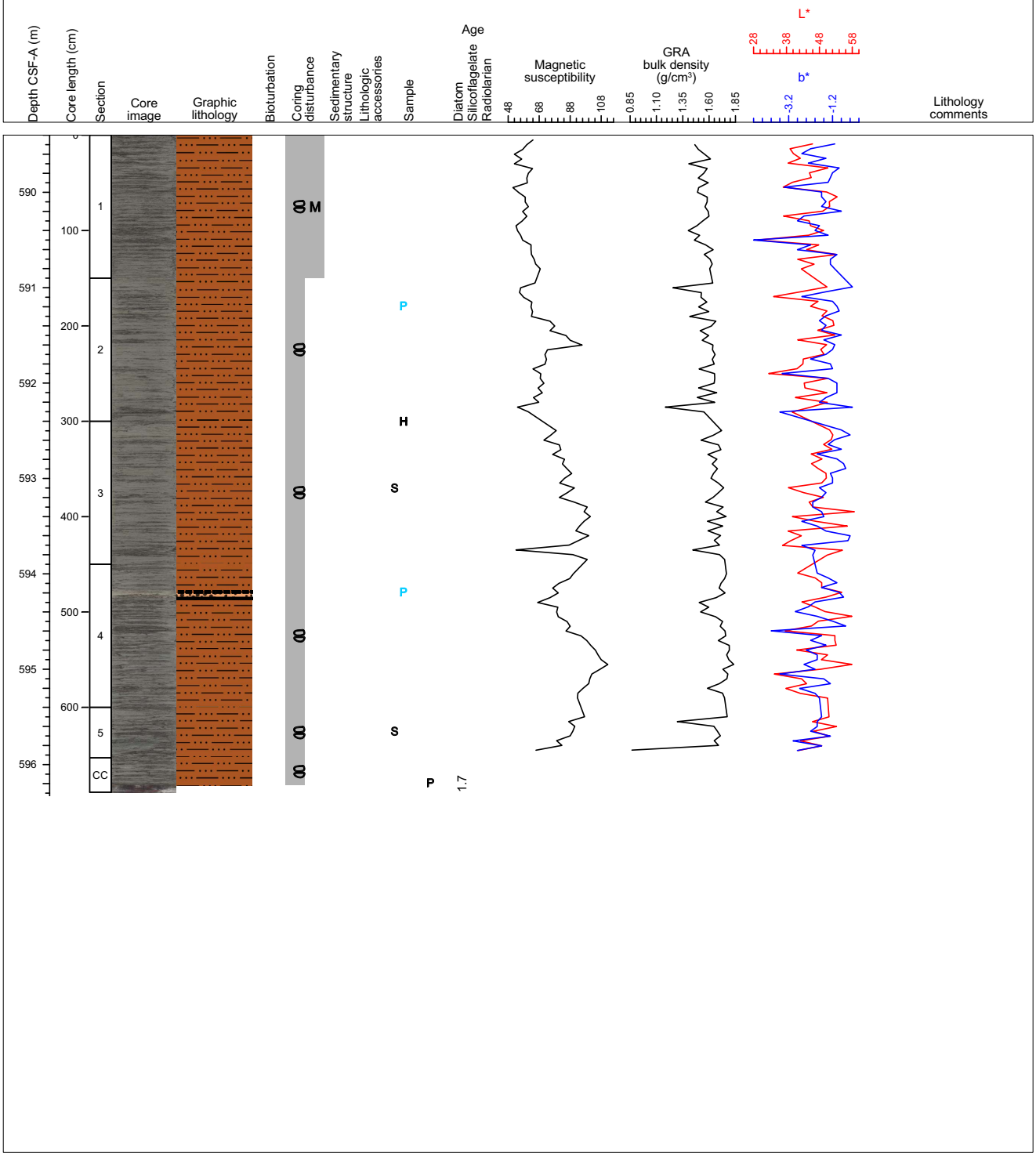
Major lithology: diatom-bearing silty clay (very dark greenish gray 10Y 3/1); diatom-rich clayey silt (very dark gray 3/N). Sandy layer occurred in Sectin 3 (31-32cm; 44-47cm) and Section4 (10-103cm). Brown ash layer occurred in Section 2 (0-1cm). Drilling disturbance is moderate to severe.



Core Photo

Hole 323-U1344A Core 63X, Interval 589.4-596.29m (CSF-A)

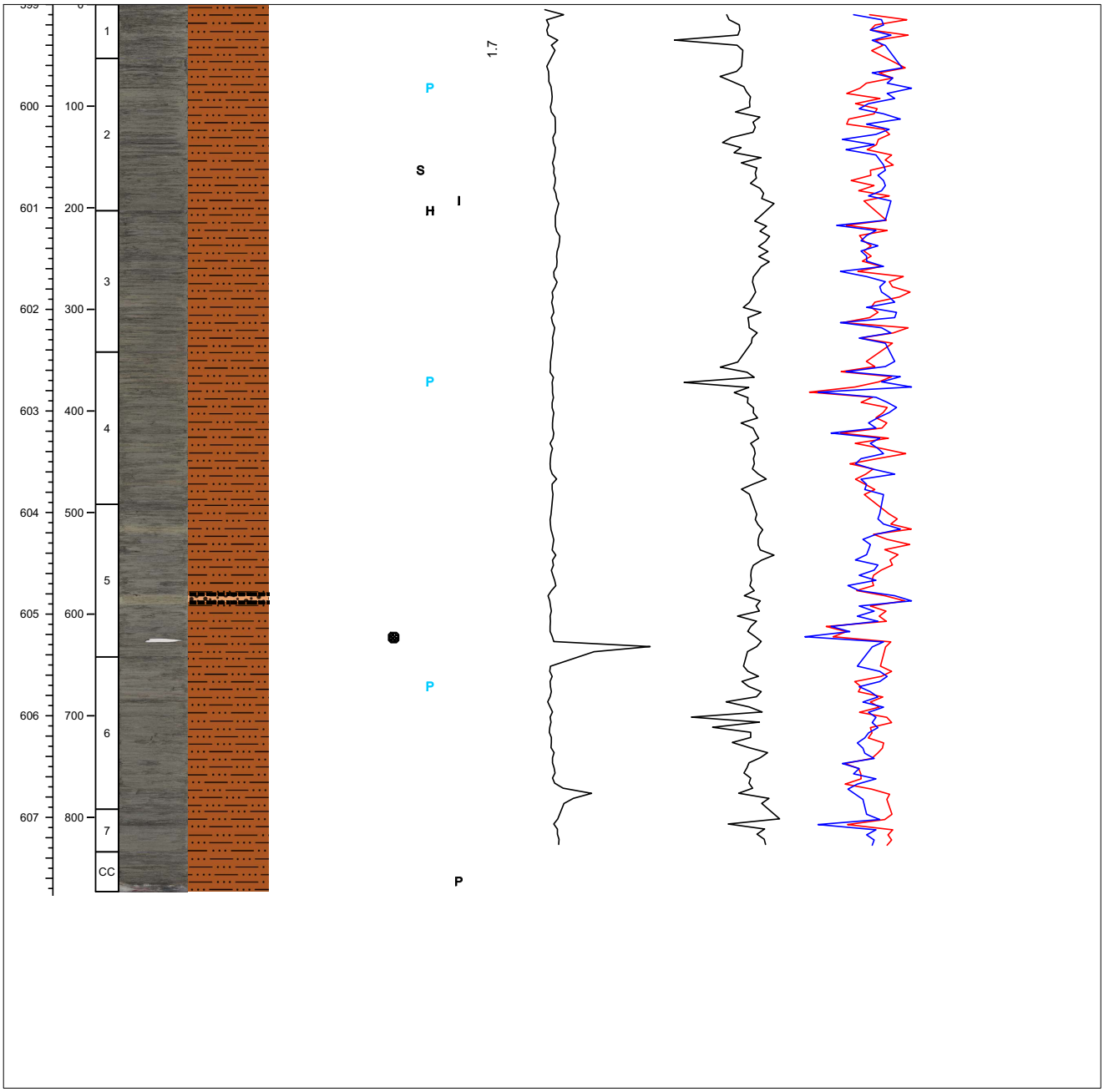
The main lithology is very dark greenish gray diatom-bearing silty clay. The sediment becomes diatom-rich silty clay in sections 5 and CC. A greenish gray authigenic carbonate layers occurs near the top of section 4. The core shows moderate drilling disturbance (biscuits) throughout.



Core Photo

Hole 323-U1344A Core 64X, Interval 599.0-607.73m (CSF-A)

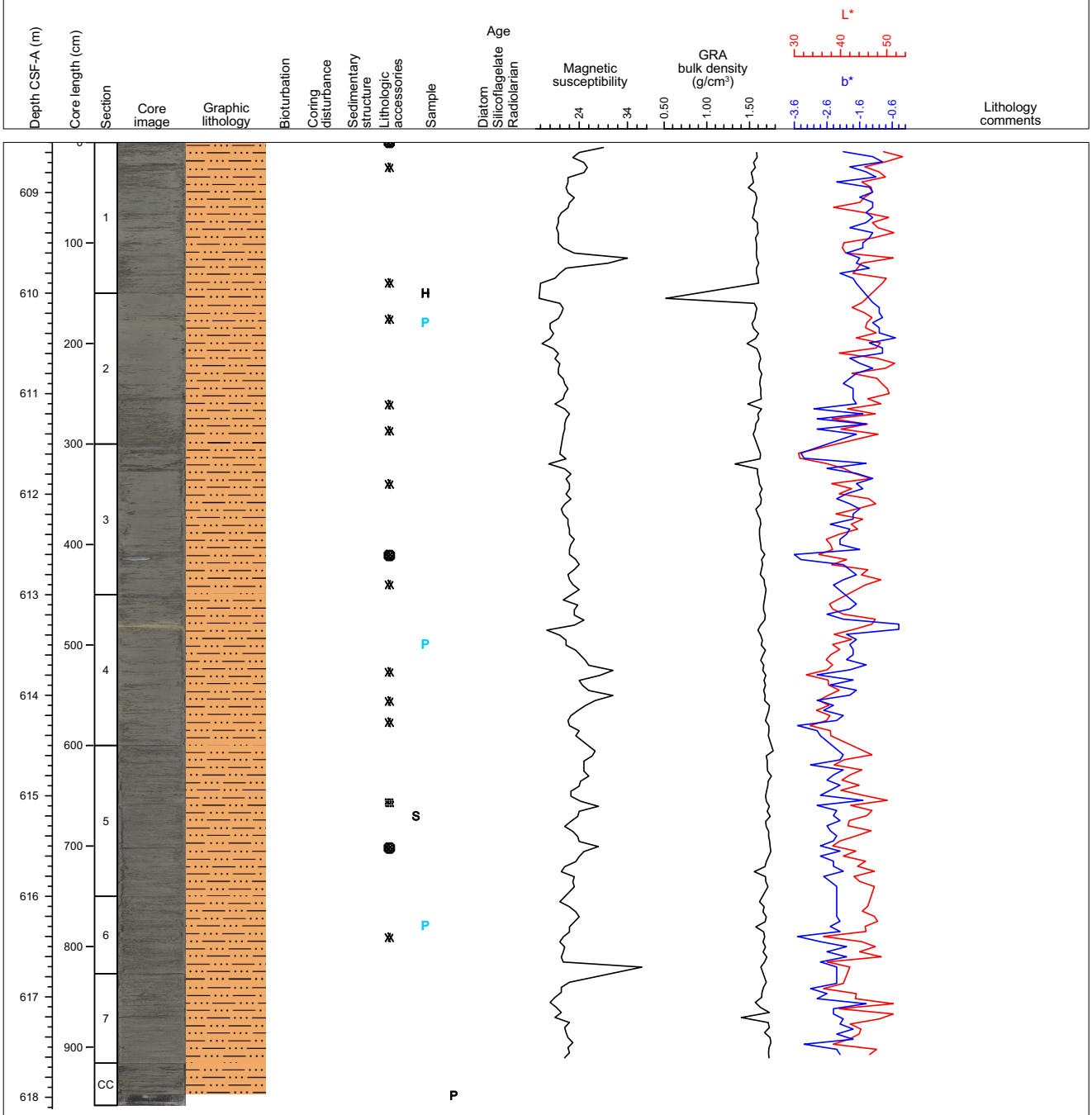
The main lithology is very dark greenish gray diatom-bearing silty clay. A layer of dark greenish gray authigenic carbonate occurs in section 5. A large subangular pebble was observed in section 5. The core is moderately disturbed (biscuits) throughout.



Core Photo

Hole 323-U1344A Core 65X, Interval 608.5-618.08m (CSF-A)

The main lithology is very dark greenish grey diattom-rich clayey silt. There are clasts in sections 1, 3 and 4, sponge spicule aggregates throughout, sandy patches and layers, and authigenic carbonate in sections 4 and 7. Bioturbation is not visible. There is slight to no drilling disturbance.

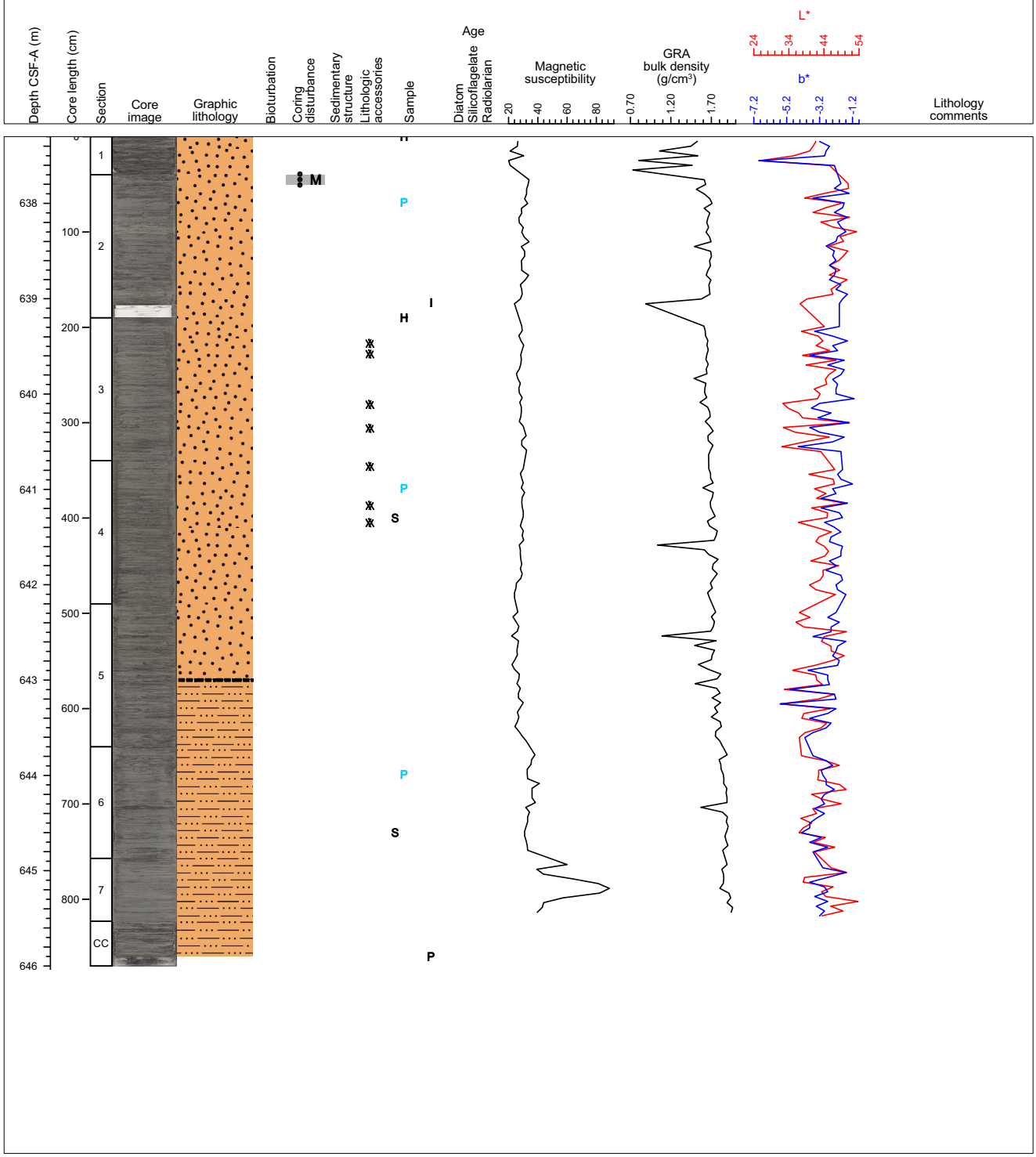


U1344A-66X NO RECOVERY
U1344A-67X NO RECOVERY

Core Photo

Hole 323-U1344A Core 68X, Interval 637.3-646.0m (CSF-A)

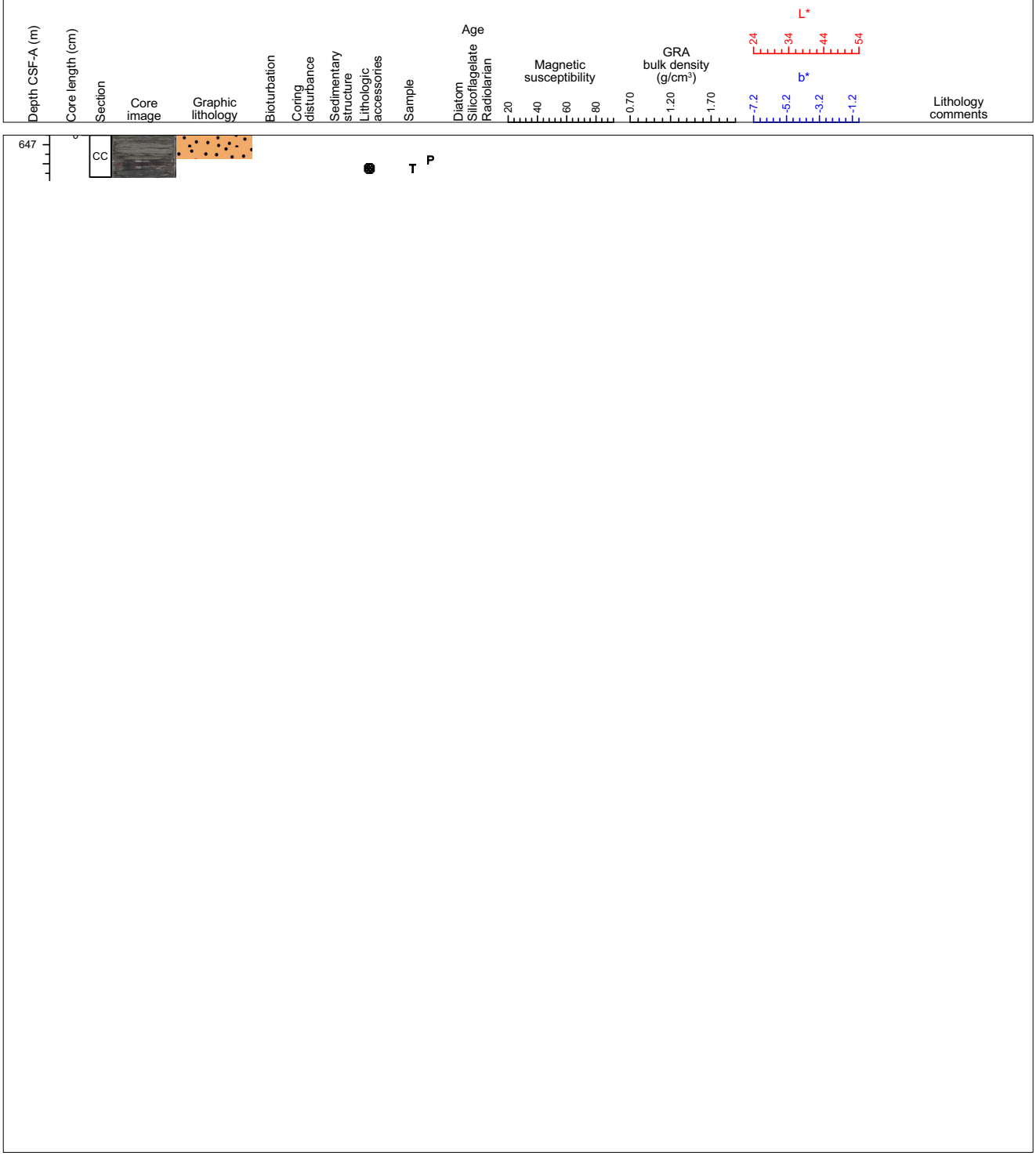
Major lithologies: Soft; dark gray to dark greenish gray diatom-bearing silt and clayey silt; two slightly lighter authigenic carbonate-bearing layers in section 2; sponge spicule aggregates in sections 3 and 4; bioturbation not visible due toXCB coring; slight drilling disturbance, section 1 heavily disturbed



Core Photo

Hole 323-U1344A Core 69X, Interval 646.9-647.34m (CSF-A)

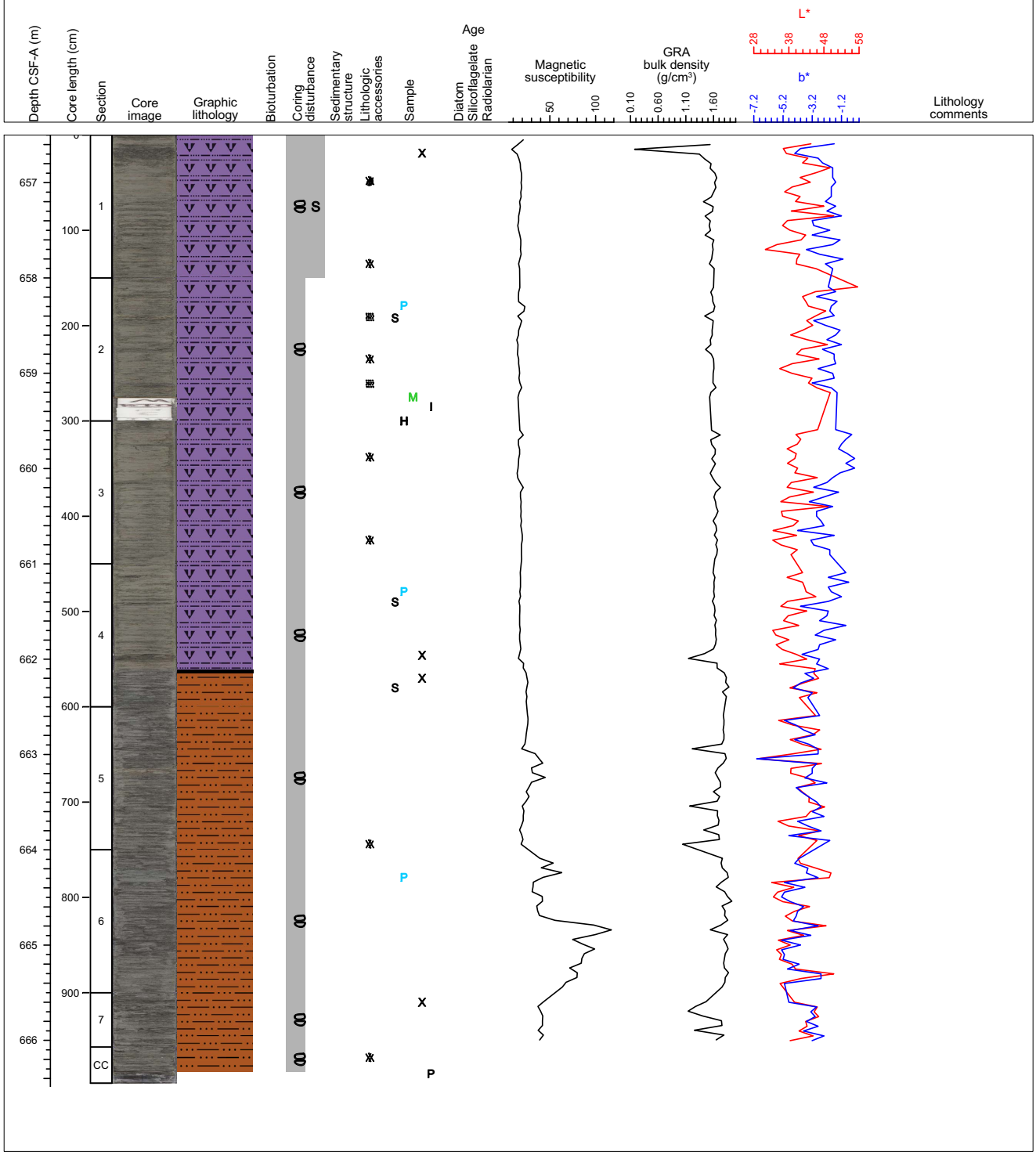
Major lithologies: Soft, dark gray ditom-rich silt; no bioturbation visible due to moderate drilling disturbance; only CC, blocked at the lower end by cobble of plutonic rock



Core Photo

Hole 323-U1344A Core 70X, Interval 656.5-666.45m (CSF-A)

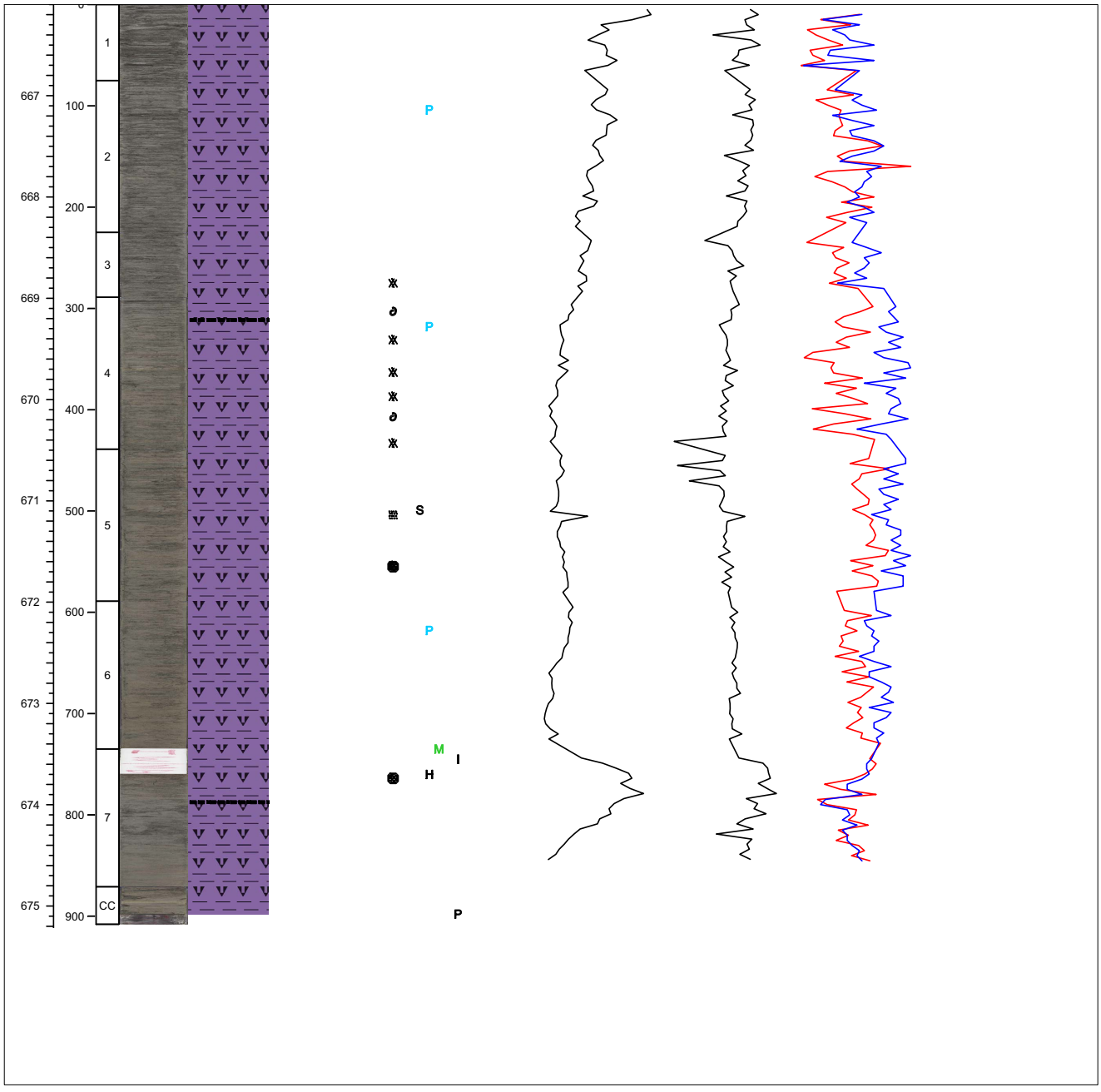
The main lithologies are dark greenish grey diatom silty clay and greenish black diatom-rich silty clay. There is a sharp boundary between them in section 4. There are black sandy mottles and laminae and sponge spicule aggregates throughout the core but more predominant in the upper sections. Authigenic carbonate occurs in sections 2 and 5. Bioturbation is not visible. The lower part of the core shows biscuiting.



Core Photo

Hole 323-U1344A Core 71X, Interval 666.1-675.18m (CSF-A)

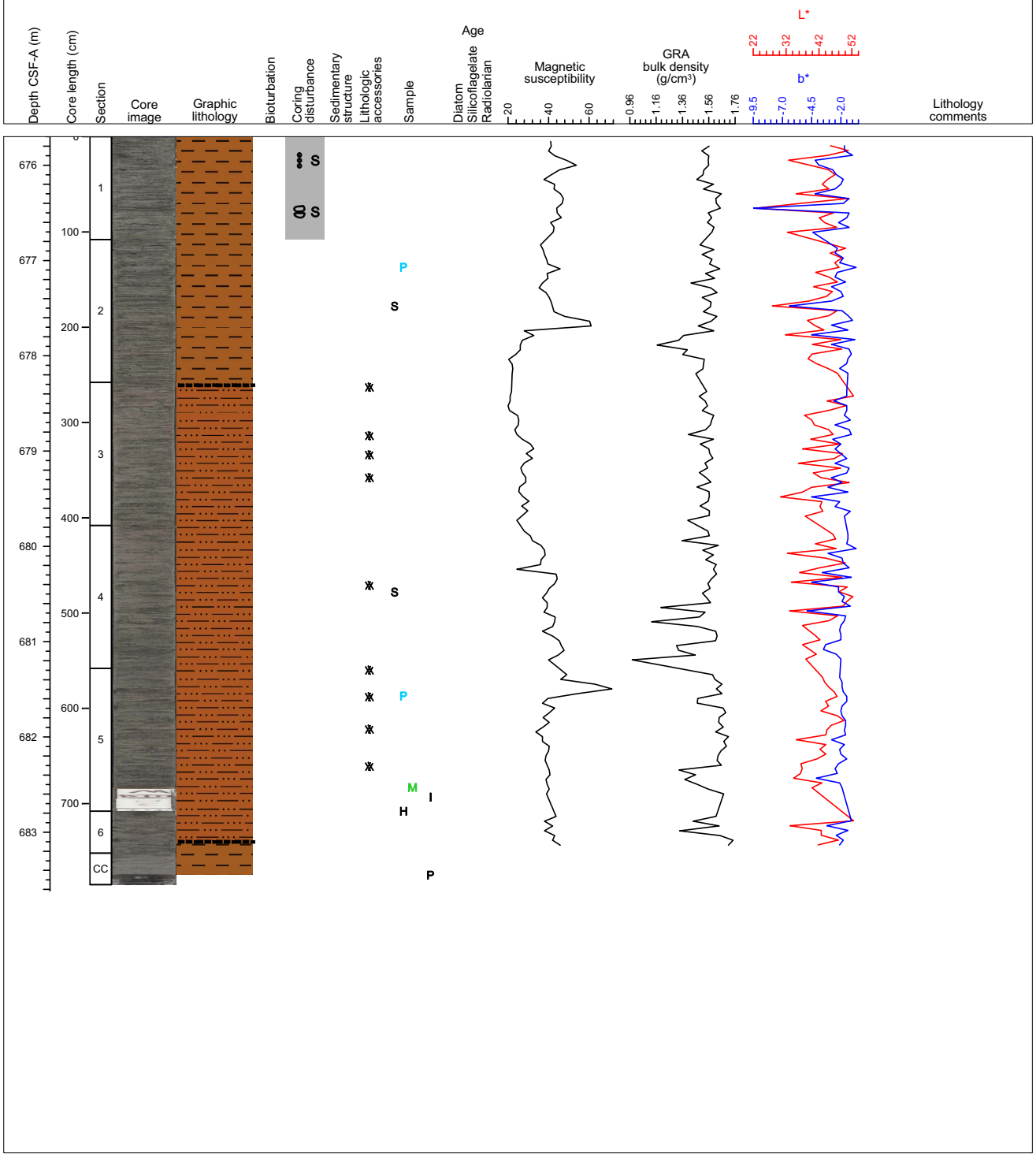
Major lithologies: Soft, dark gray to dark greenish gray diatom clay; sponge spicule aggregates in sections 3, 4 and 5; shell fragments in section 4; andy layer and sandy mottles in section 5 and 6; pebbles in sections 5 and 7; bioturbation not visible due to XCB coring; slight drilling disturbance, section 1 heavily disturbed



Core Photo

Hole 323-U1344A Core 72X, Interval 675.7-683.55m (CSF-A)

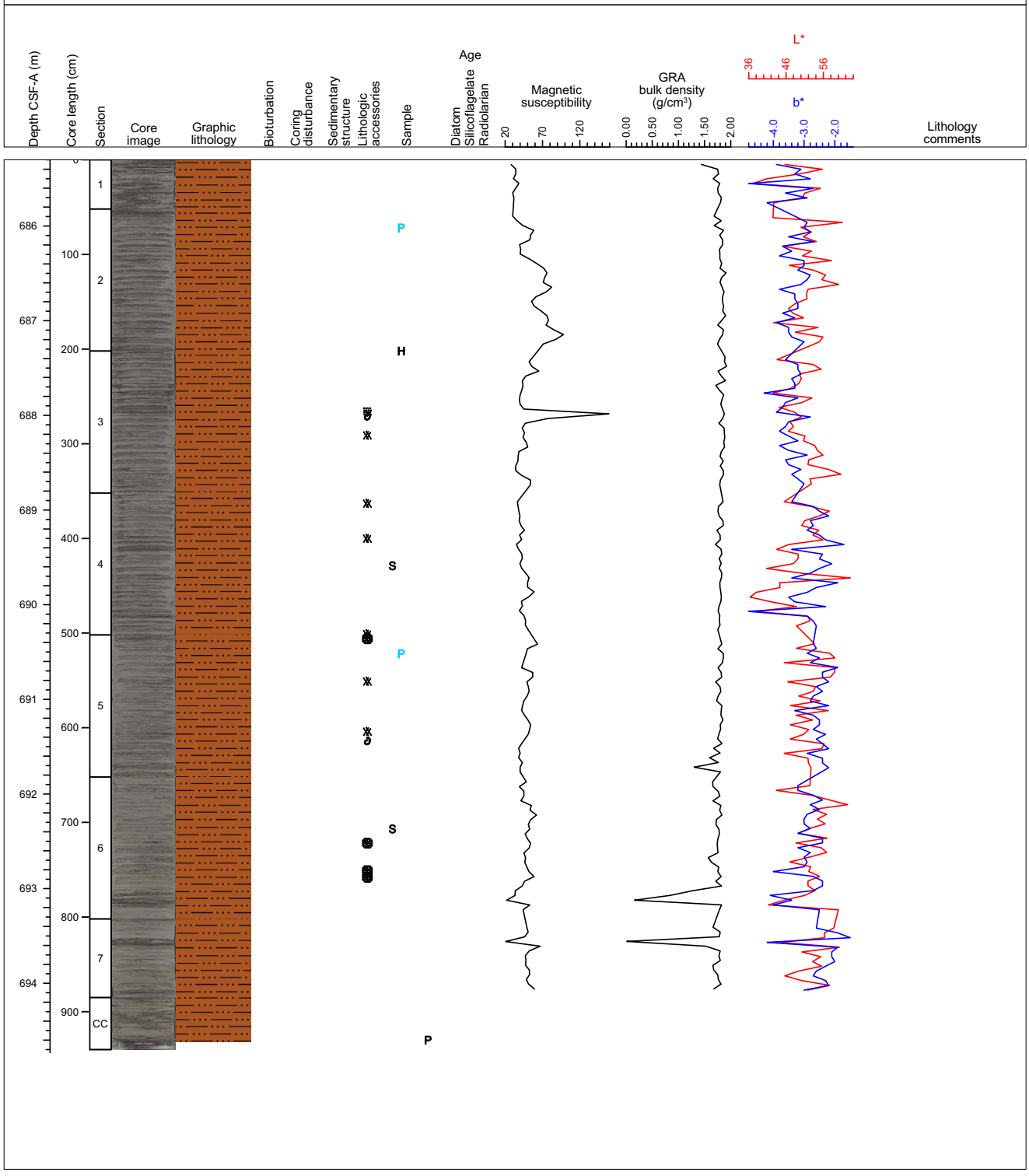
The main lithologies are very dark greenish grey diatom-rich clay and dark greenish gray diatom-rich silty clay. There are numerous sponge spicule aggregates and sandy patches but most occur in the diatom-rich silty clay. Bioturbation is not visible. Drilling disturbance is mostly slight with biscuiting.



Core Photo

Hole 323-U1344A Core 73X, Interval 685.3-694.7m (CSF-A)

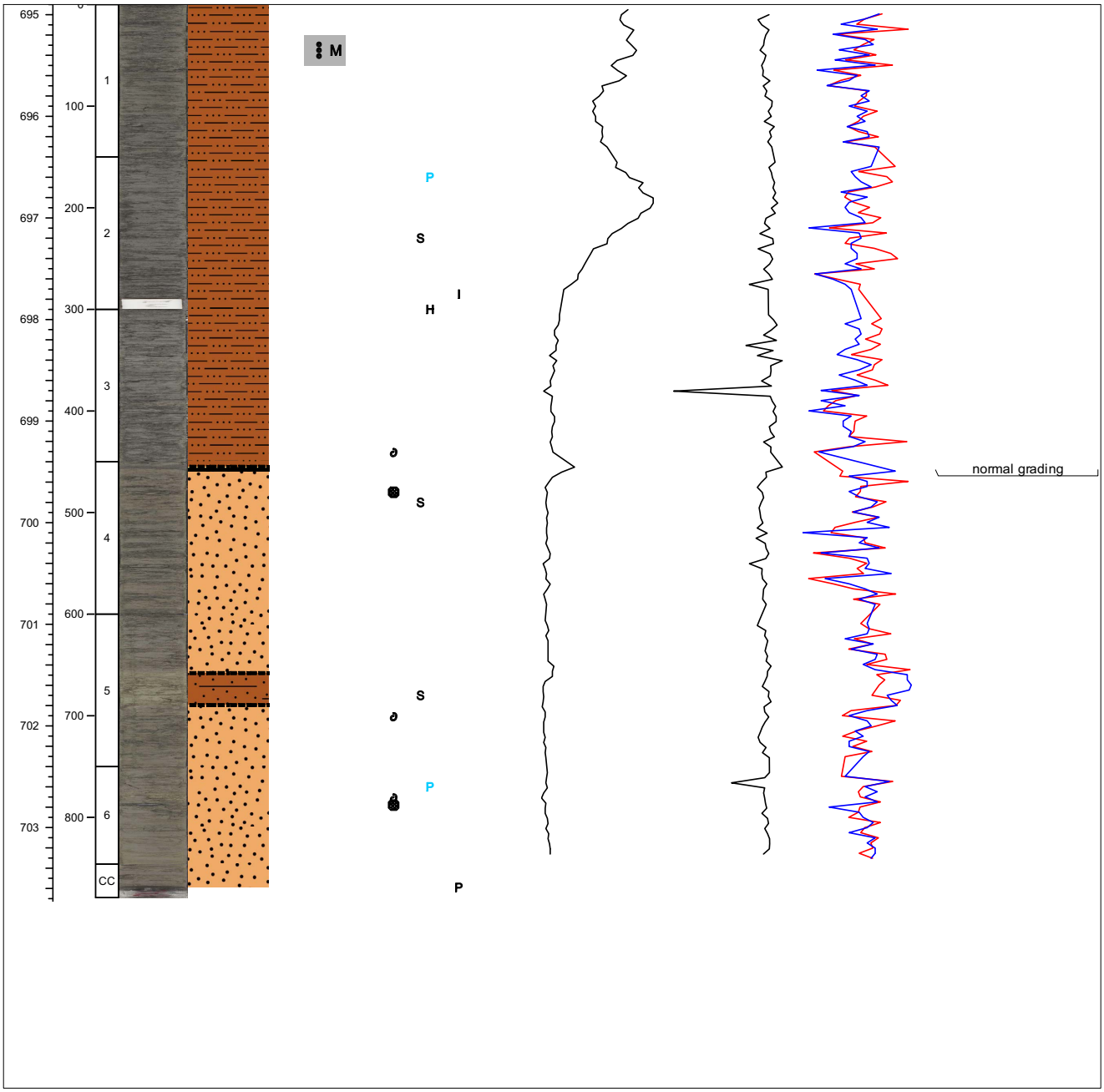
Major lithologies: Soft, very dark gray diatom-rich silty clay; sandy layers and patches in sections 3 and 6; shell fragments in sections 3 and 5; sponge spicule aggregates in sections 3, 4 and 5; fine pebbles in sections 5 and 6; bioturbation not visible due to XCB coring; slight drilling disturbance, section 1 heavily disturbed



Core Photo

Hole 323-U1344A Core 74X, Interval 694.9-703.69m (CSF-A)

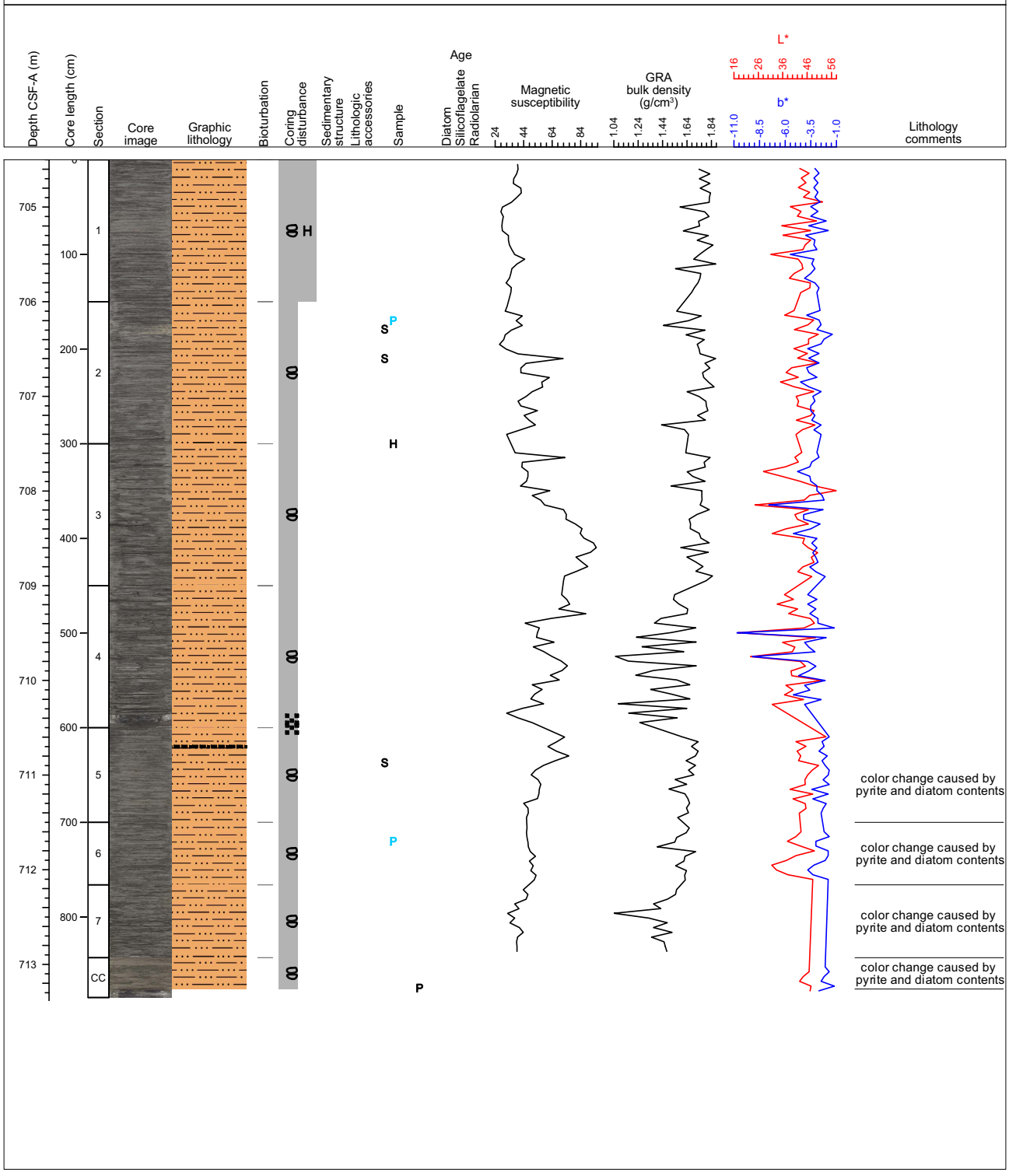
Major lithologies: Soft to stiff, very dark to dark greenish gray diatom rich silty and silty clay; mostly gradational boundaries between different colours, but sharp contact below sandy layer in upper section 4; dark, normally graded sandy layer in upper section 4, bioturbated top and sharp, probably erosioanl base; lighter-coloured authigenic carbonate-rich diatom-rich sandy clay interval in section 5; clasts in sections 4 and 6; shell fragments in sections 3, 5 and 6; sandy mottles in lower section 6 and CC; bioturbation not visible due to XCB coring; slight drilling disturbance, soupy in section 1



Core Photo

Hole 323-U1344A Core 75X, Interval 704.5-713.35m (CSF-A)

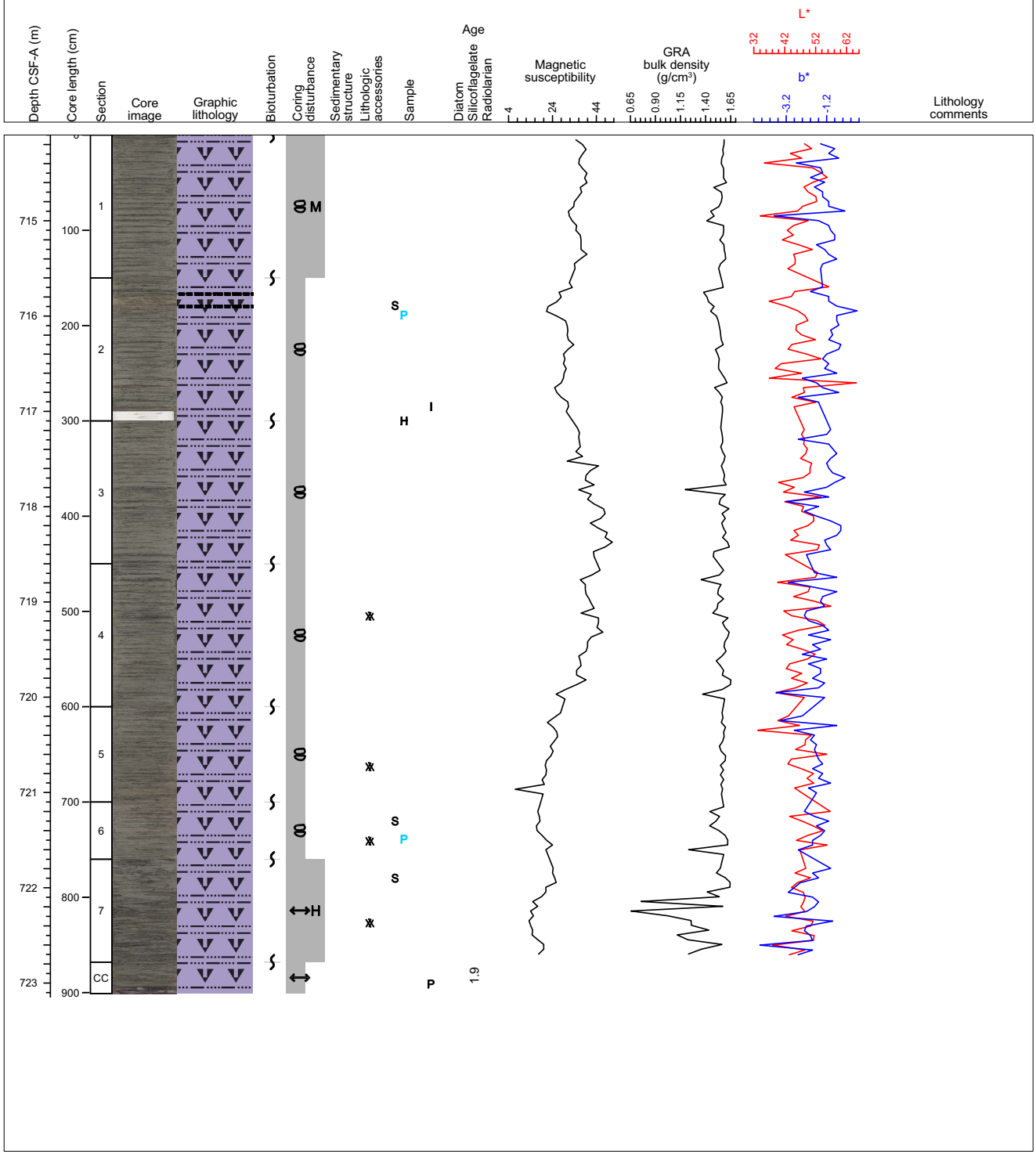
Major lithology: diatom-rich clayey silt (very dark gray 3/N to very dark greenish gray 10Y 3/1). Color change is caused by pyrite and diatom contents. Authigenic carbonate occurred in Section 2 (20-36cm). Drilling disturbance moderate to severe. Section 7 was extruded onto the rig floor.



Core Photo

Hole 323-U1344A Core 76X, Interval 714.1-723.11m (CSF-A)

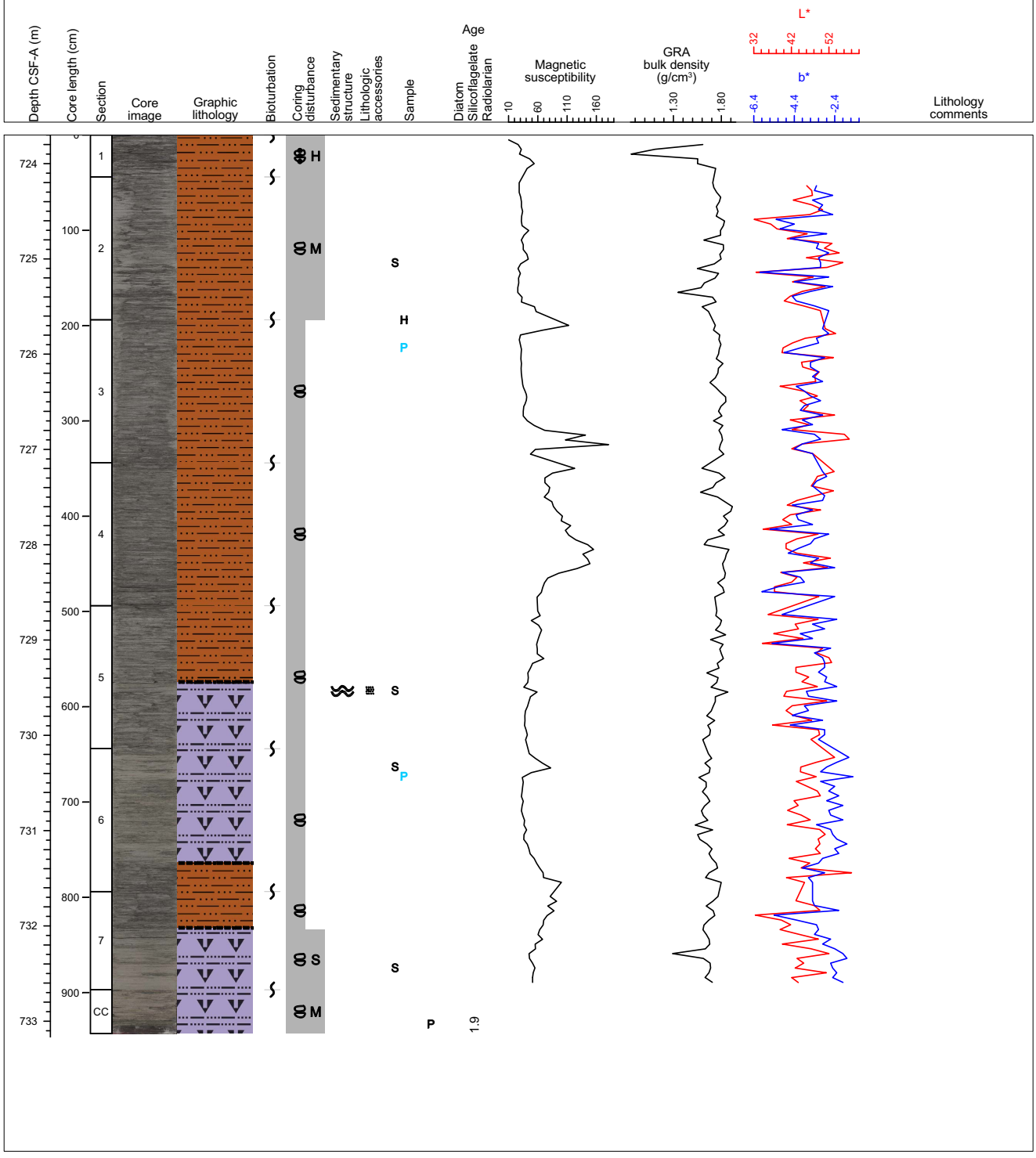
Major lithology: very dark greenish gray diatom clayey silt. Seondary lithology (top of section 2): dark greenish gray authigenic carbonate-rich diatom clayey silt. Several sand mottles and sponge spicule aggregates occur throughout the core. Drilling disturbance is modreate to severe with biscuits. Section 7 was extruded onto the rig floor.



Core Photo

Hole 323-U1344A Core 77X, Interval 723.7-733.13m (CSF-A)

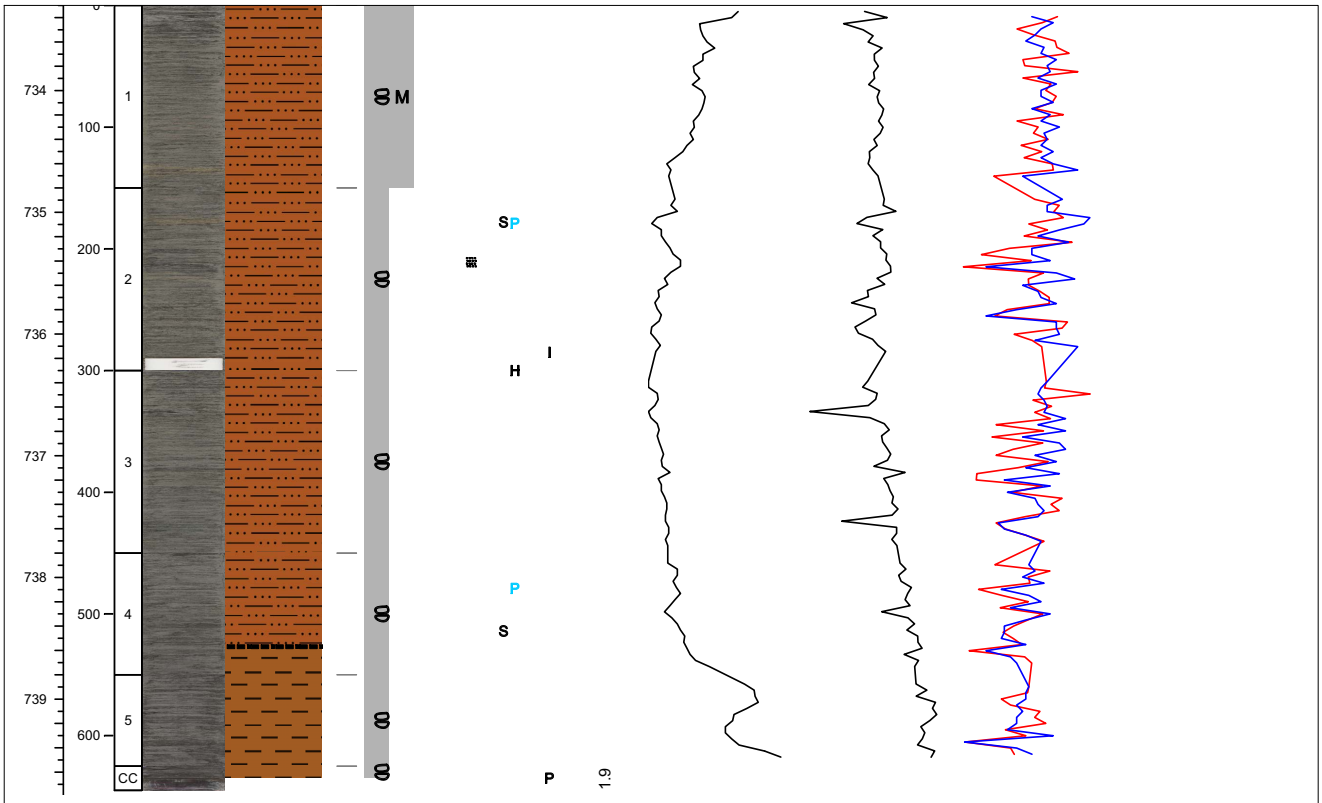
Major lithologies: very dark greenish gray diatom-rich silty clay and dark greenish gray diatom clayey silt. An wavy silty sand layer is present in section 5 and fine ash mottles are present in section 6. Drilling disturbance is moderate to high throughout, but more pronounced in the diatom-rich silty clay. Disturbance is mainly biscuits, but gas expansion caused the first section to be extruded onto the rig floor.



Core Photo

Hole 323-U1344A Core 78X, Interval 733.3-739.75m (CSF-A)

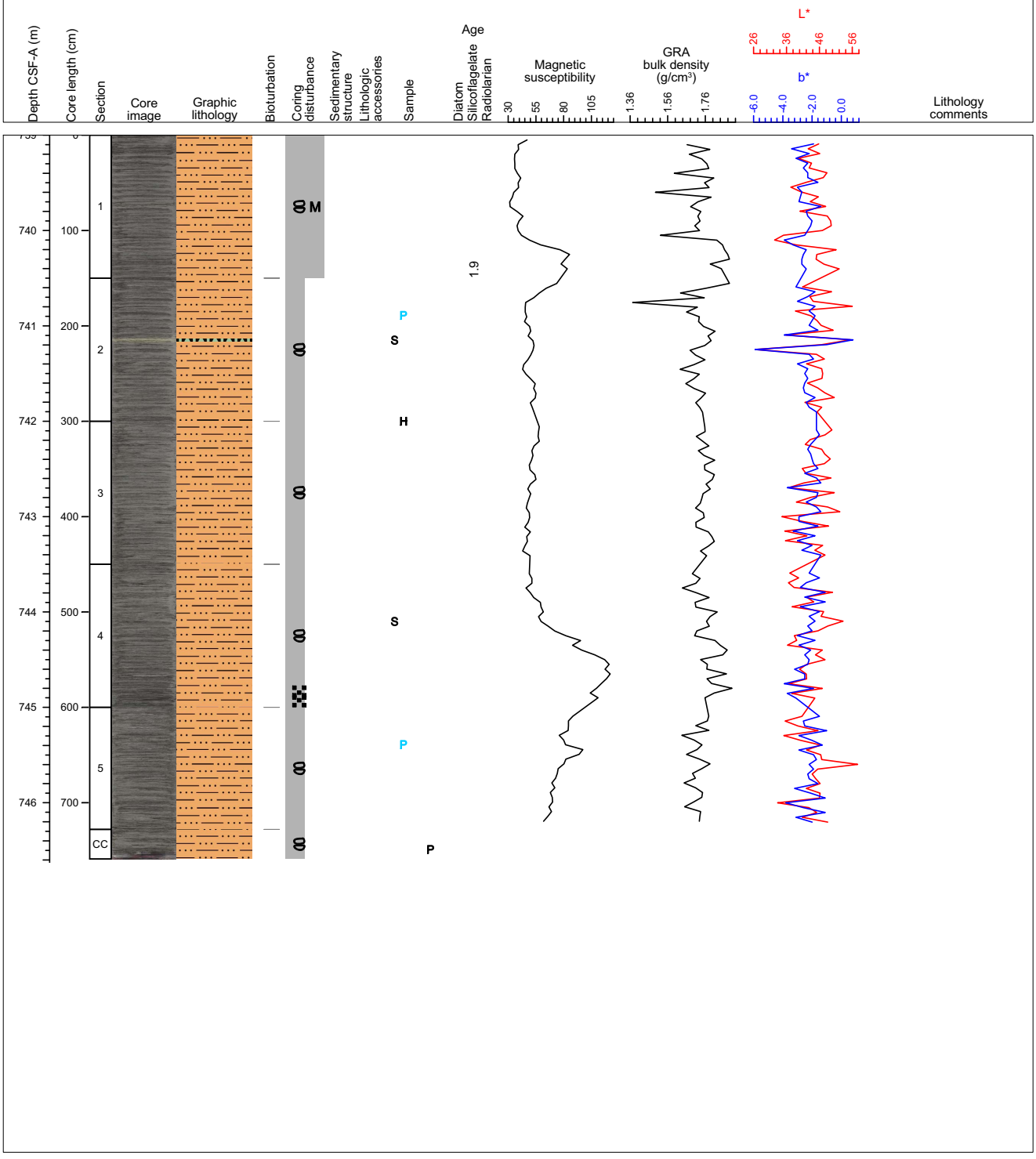
Major lithology: diatom-rich silty clay (very dark greenish gray 10Y 3/1) from Section 1 to 4 (77cm); diatom-rich clay (very dark gray 3/N) from Section 4 to CC. Authigenic carbonate clay occurred in Section 1 (131-136cm; 139cm) and in Section 2 (67 cm 25-29cm) as mottling. A sandy layer occurred in Section 2 (61-62cm).



Core Photo

Hole 323-U1344A Core 79X, Interval 739.0-746.59m (CSF-A)

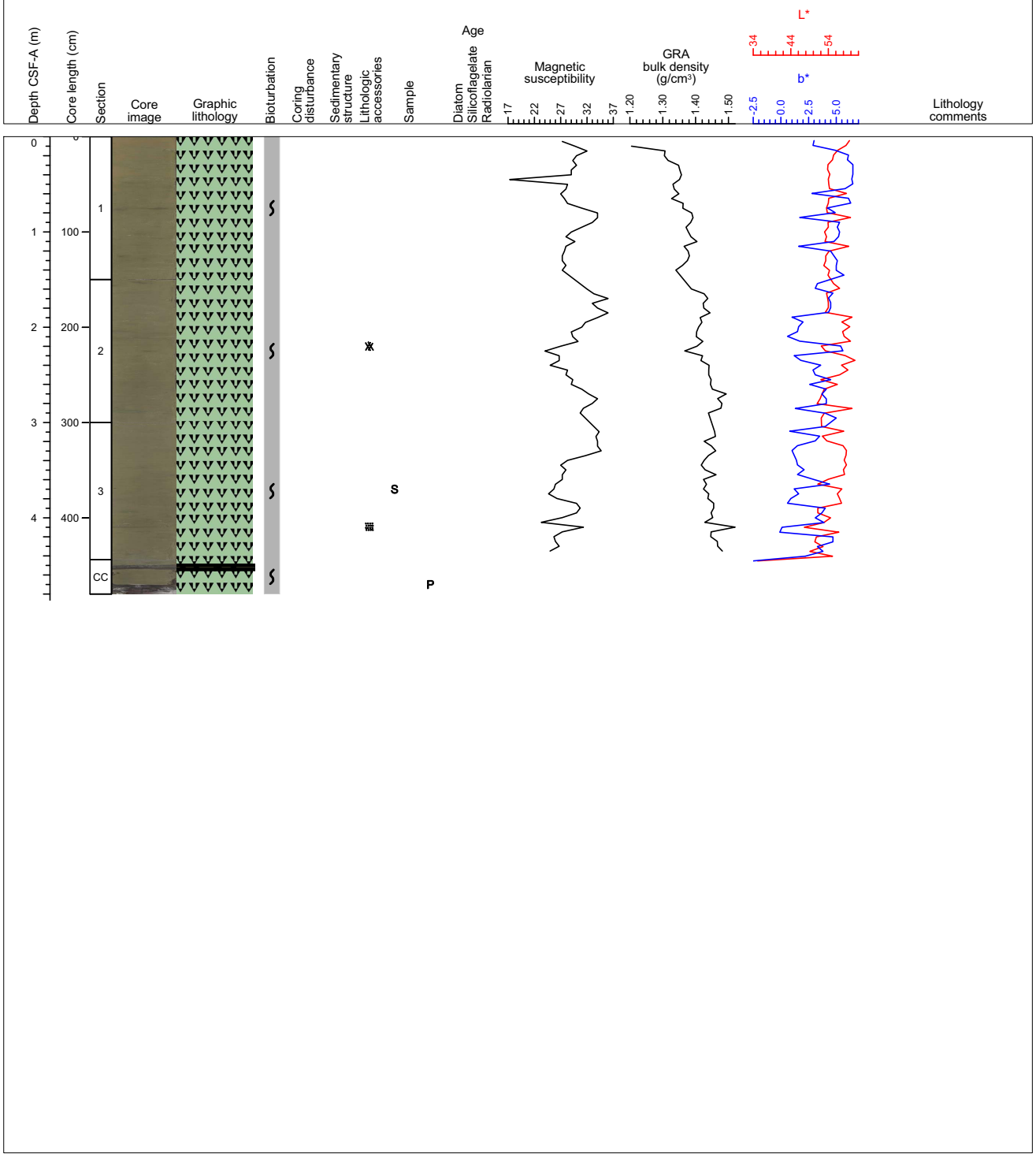
Major lithology: greenish black diatom-rich clayey silt. Secondary lithology in section 2: greenish gray authigenic carbonate-rich diatom ooze. Boundaries between lithologies are gradational. Pyrite streaks are visible in section 3. Other structures are obscured by moderate drilling disturbance due to biscuiting.



Core Photo

Hole 323-U1344B Core 1H, Interval 0.0-4.8m (CSF-A)

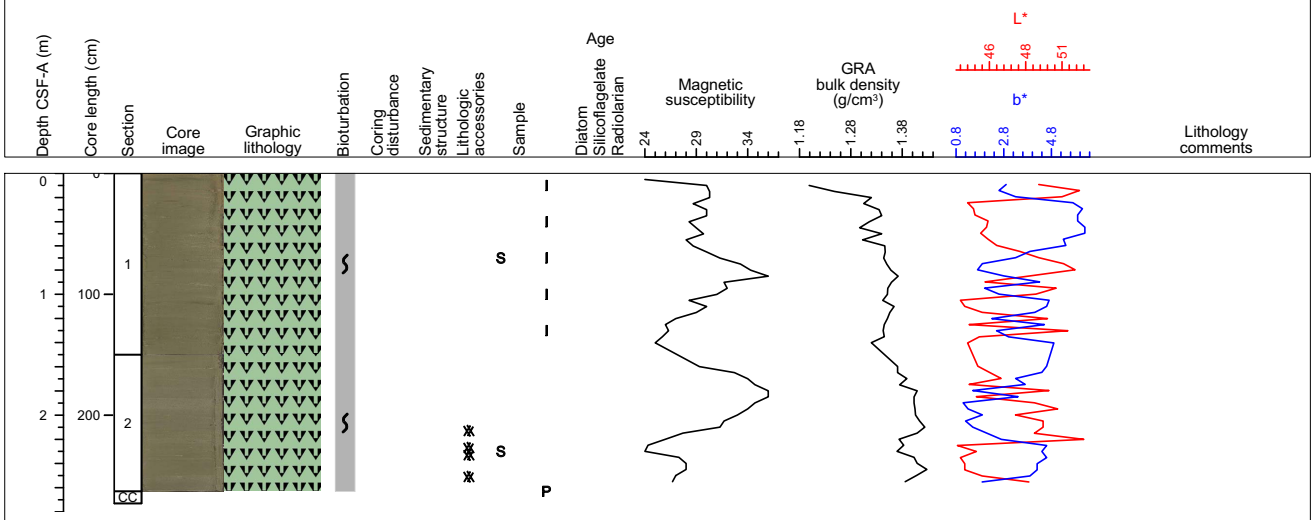
Major lithology: dark olive diatom ooze. Secondary lithology: greenish black sand. The upper and lower contacts on the sand layer are very sharp. Bioturbation is slight throughout the core, mainly expressed as dark green or blue green mottles.



Core Photo

Hole 323-U1344D Core 1H, Interval 0.0-2.73m (CSF-A)

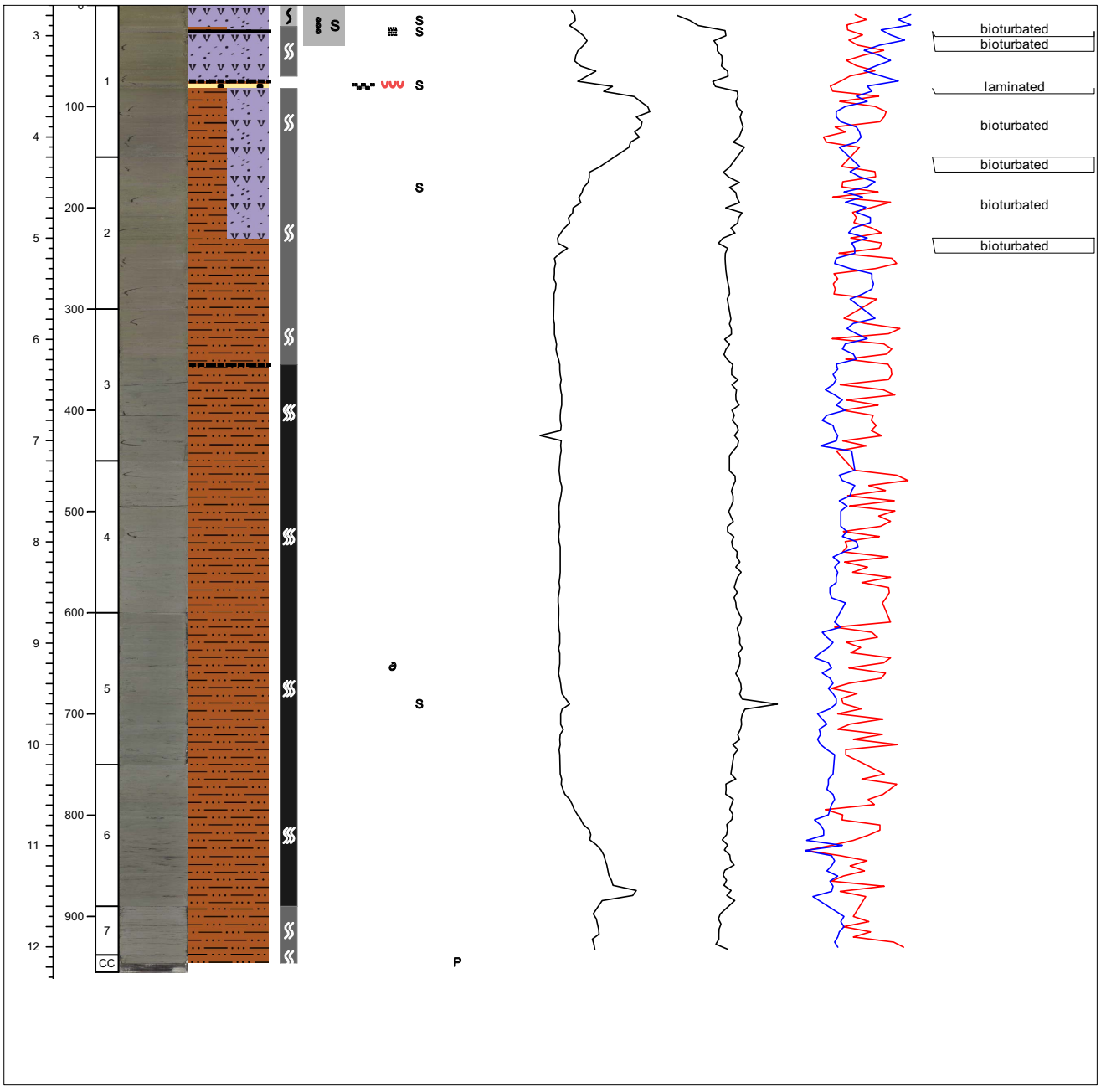
Major lithologies: Soupy to soft, olive diatom ooze; dark mottling at top of section 1; sponge spicule aggregates in lower section 2; slight bioturbation; no drilling disturbance



Core Photo

Hole 323-U1344D Core 2H, Interval 2.7-12.25m (CSF-A)

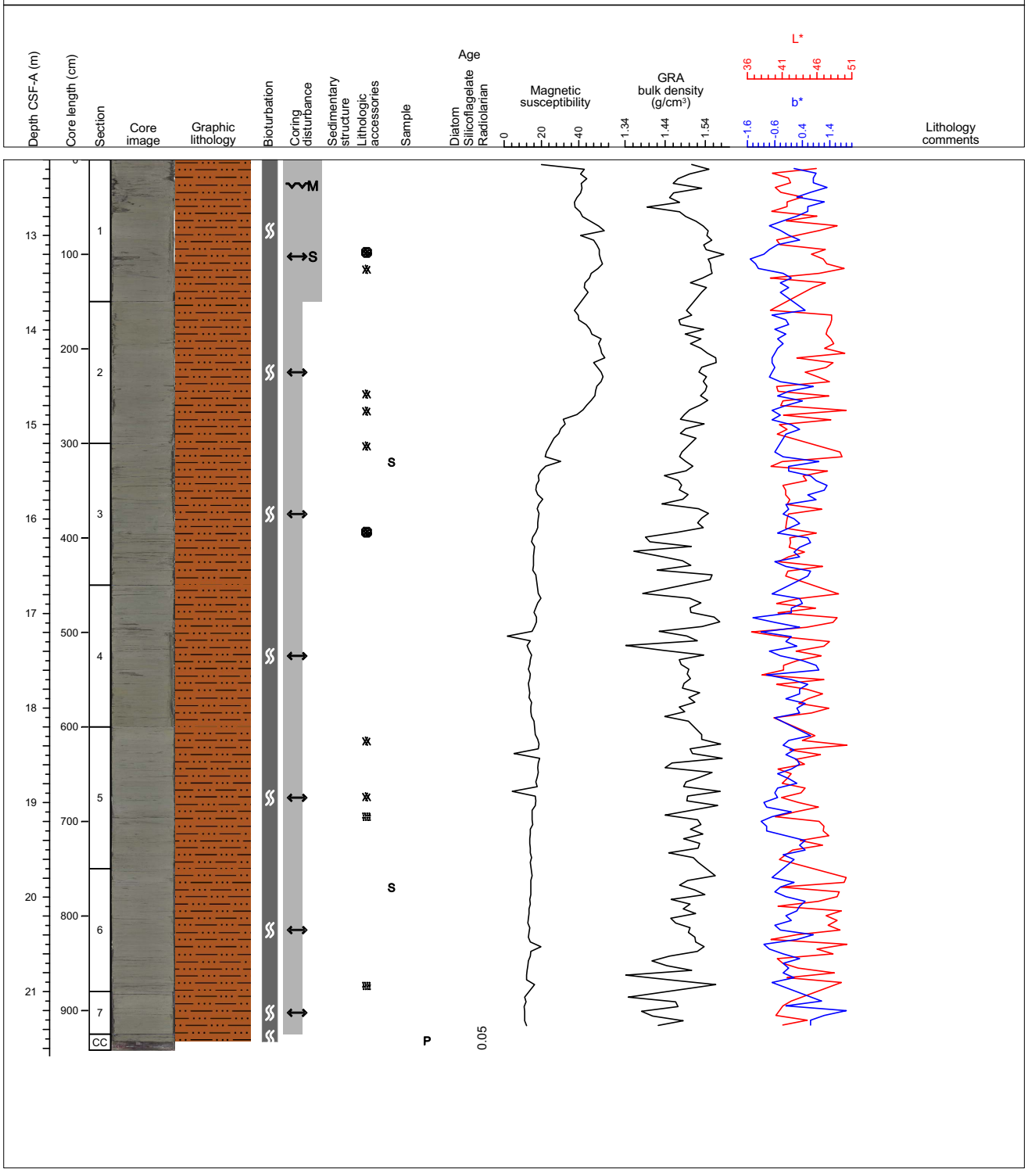
Major lithologies: Soupy to soft, dark gray to dark greenish gray to olive gray to olive diatom-rich silty clay and diatom silt; mostly gradational boundaries between different colours; laminated interval of 4 cm thickness in middle section 1, including diatom silt and two thin dark diatom-bearing sand layers; another thin dark sand layer in upper section 1; sandy mottles in sections 1 to 4; pyrite mottles in sections 4 to 7; pyrite specks up to 1 cm diameter in section 5; bioturbation mostly moderate to heavy, absent in laminated interval; no drilling disturbance apart from soupy texture at top of section 1



Core Photo

Hole 323-U1344D Core 3H, Interval 12.2-21.62m (CSF-A)

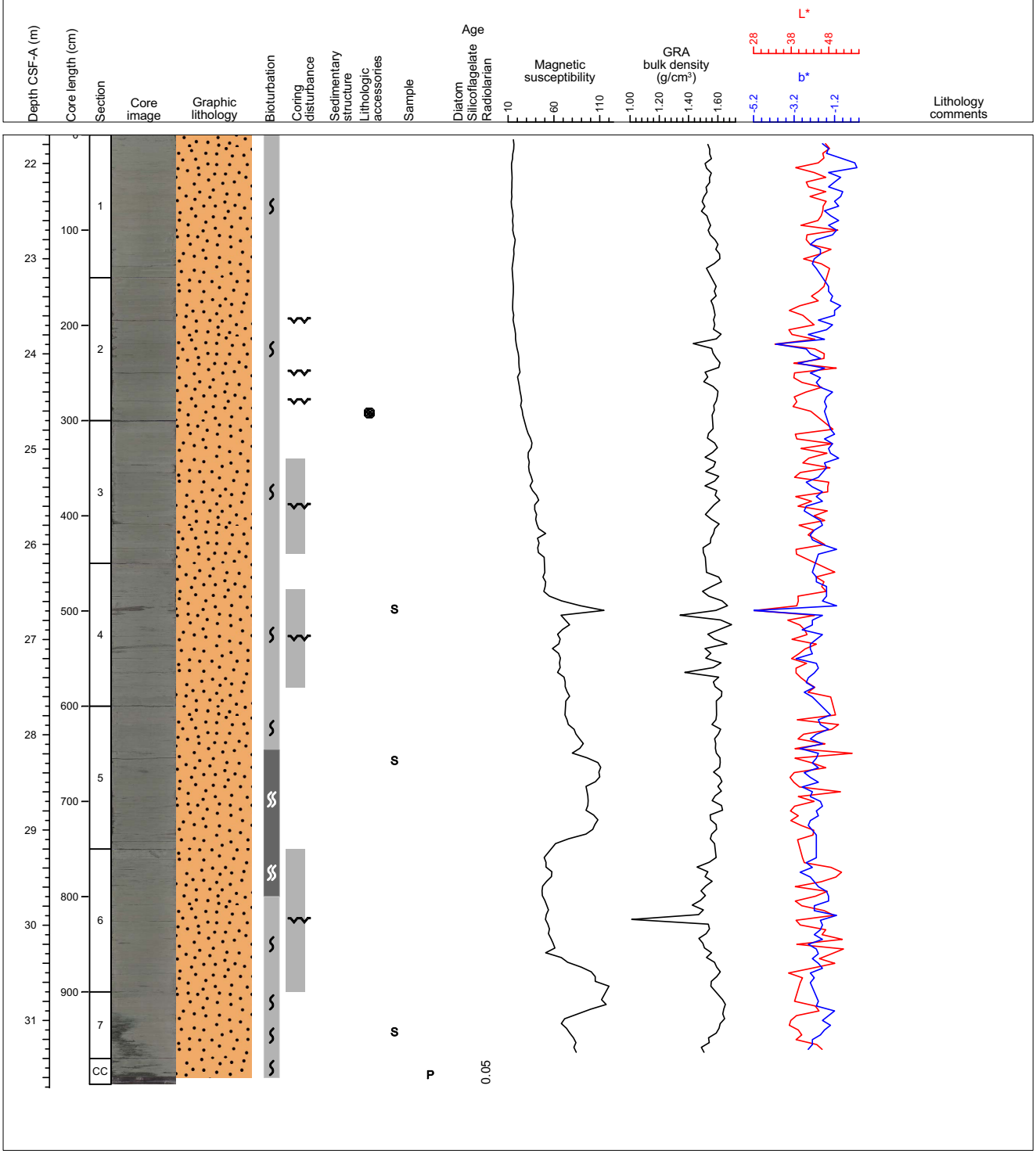
Major lithologies: Soft, dark greenish gray diatom-rich silty clay; pyrite mottles in sections 1 and 2; small pebbles in sections 1 and 2; sandy layers and mottles in sections 1, 5 and 6; sponge spicule aggregates occur throughout most of the core; moderate bioturbation; slight gas expansion, moderate at top of section 1



Core Photo

Hole 323-U1344D Core 4H, Interval 21.7-31.67m (CSF-A)

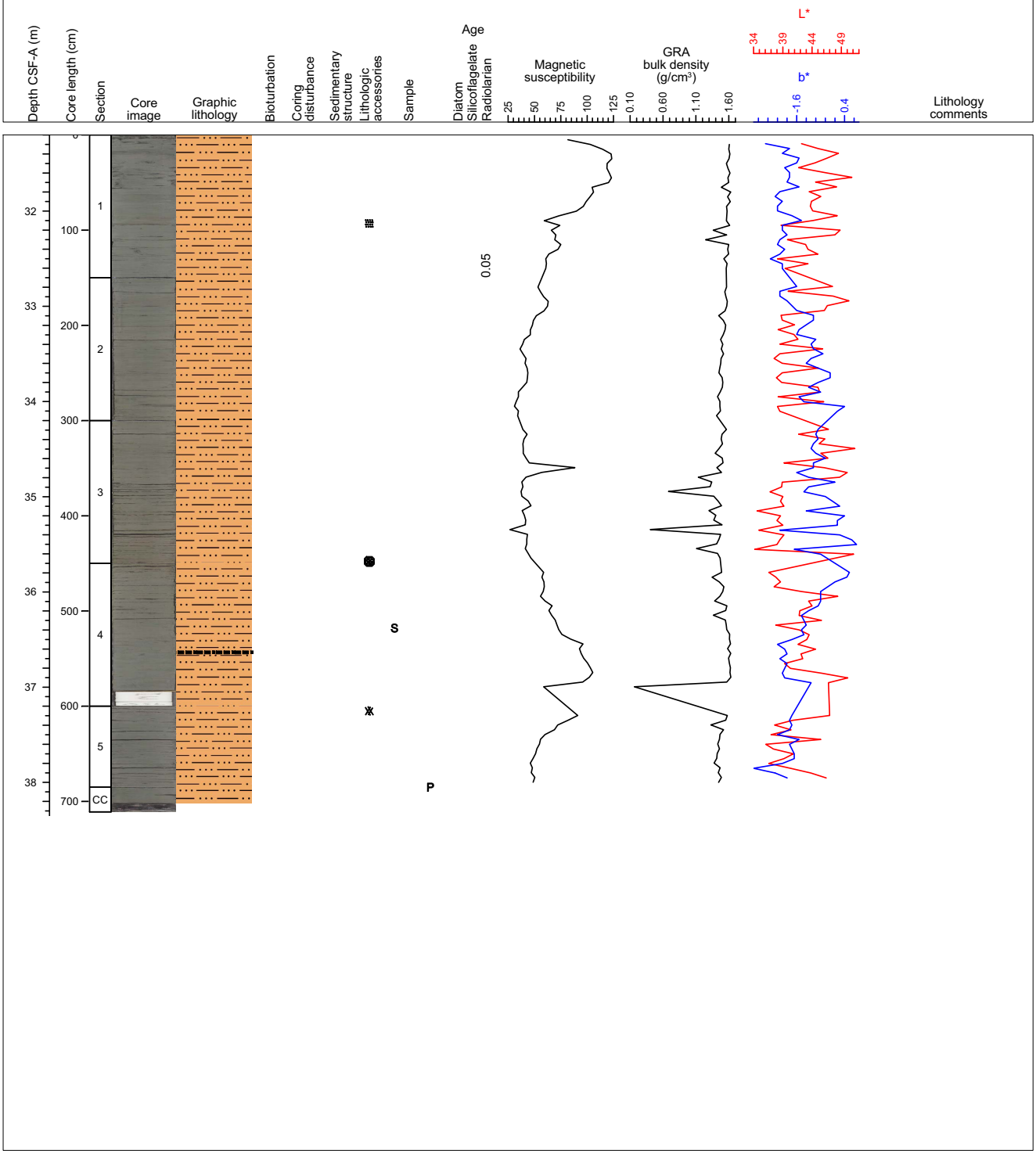
Major lithology: clay (dark greenish gray 10GY 4/1). A large skolithos ichnofossil occurred in Section 7 (26-70cm). Green colored consolidated clay fills the burrow. A large mottling with sand occurred in Section 4 (46-50cm). Bioturbation is slight to moderate.



Core Photo

Hole 323-U1344D Core 5H, Interval 31.2-38.31m (CSF-A)

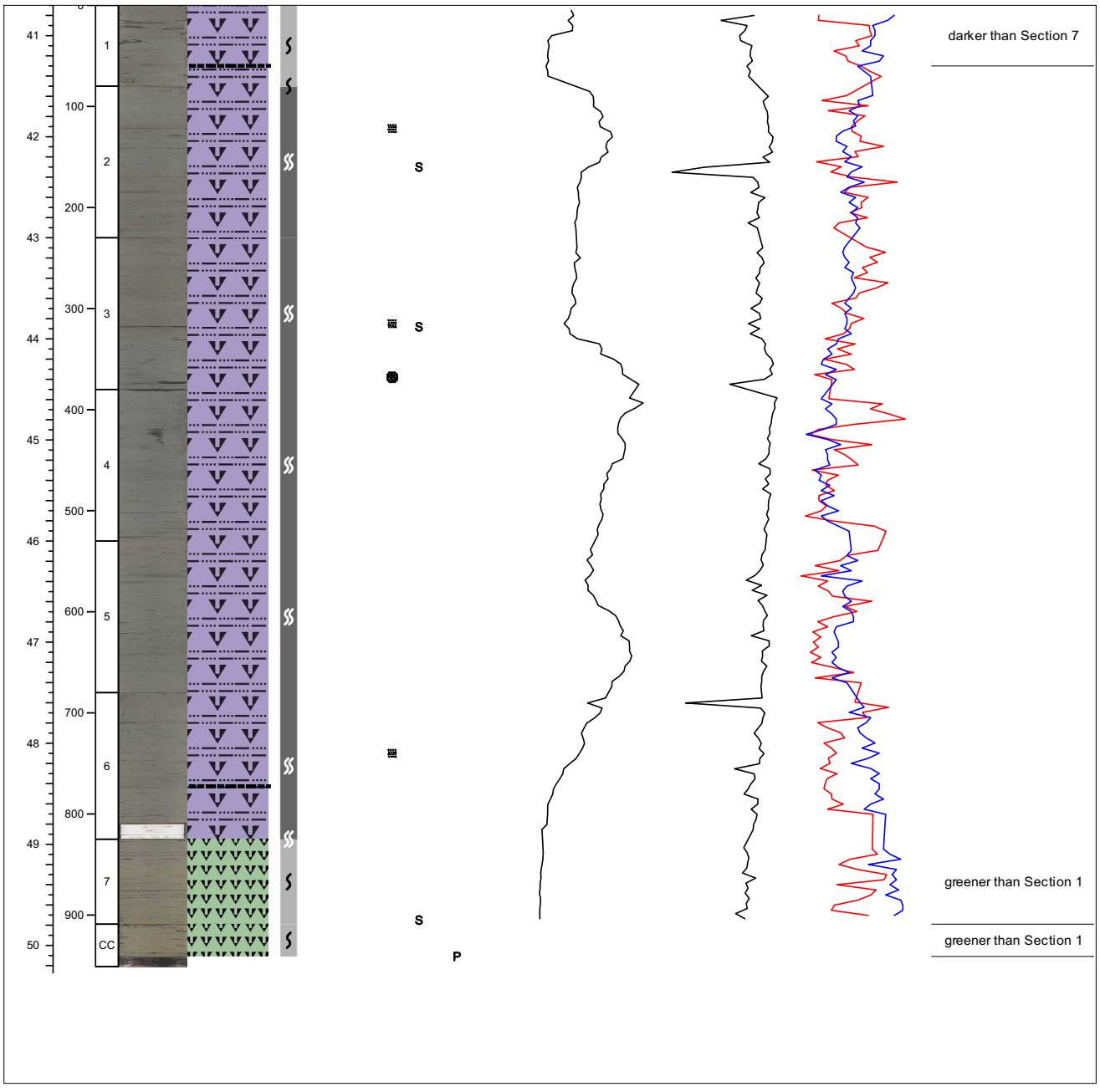
The main lithologies are dark greenish gray diatom-rich clayey silt (sections 1-4) and very dark greenish gray diatom-bearing clayey silt (sections 4-CC). A 60cm thick transition between the lithologies occurs in section 4. A sand layer is present is section 1 and a small pebble at the bottom of section 3. The core is mottled throguhout by both dark (sulfide) and green mottles.



Core Photo

Hole 323-U1344D Core 6H, Interval 40.7-50.21m (CSF-A)

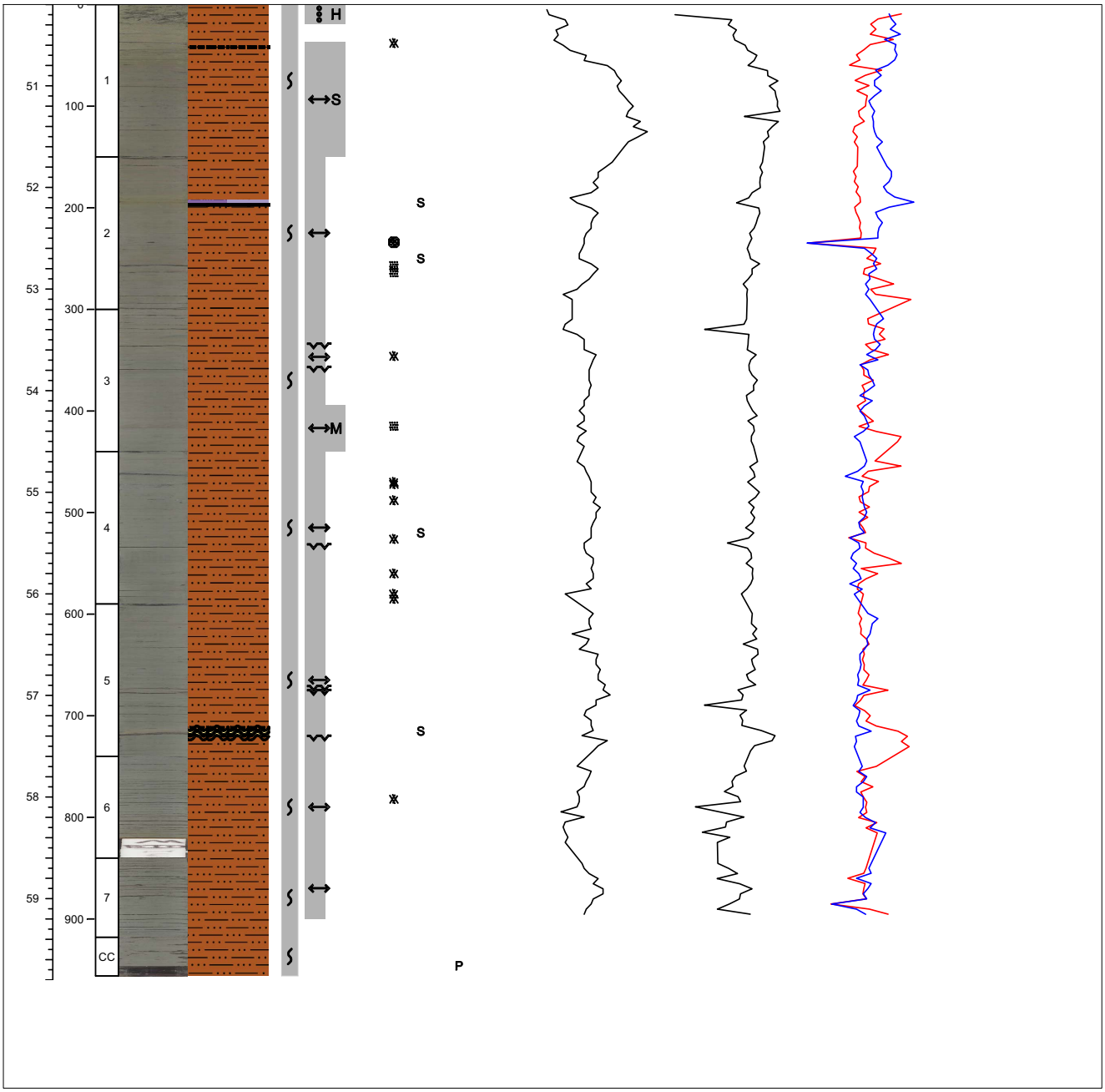
Major lithology: diatom clayey silt (dark greenish gray 10Y 4/1 to 5GY 4/1) from Section 1 to Section 6; diatom ooze (dark grenish gray 10Y 4/1). Green silty clay layer containing large amount of botryoidal pyrite occurred in Section 3 (83-84cm). Bioturbation is slight to moderate. Skolithos ichonofossil filled by green clay occurred in Section 4.



Core Photo

Hole 323-U1344D Core 7H, Interval 50.2-59.76m (CSF-A)

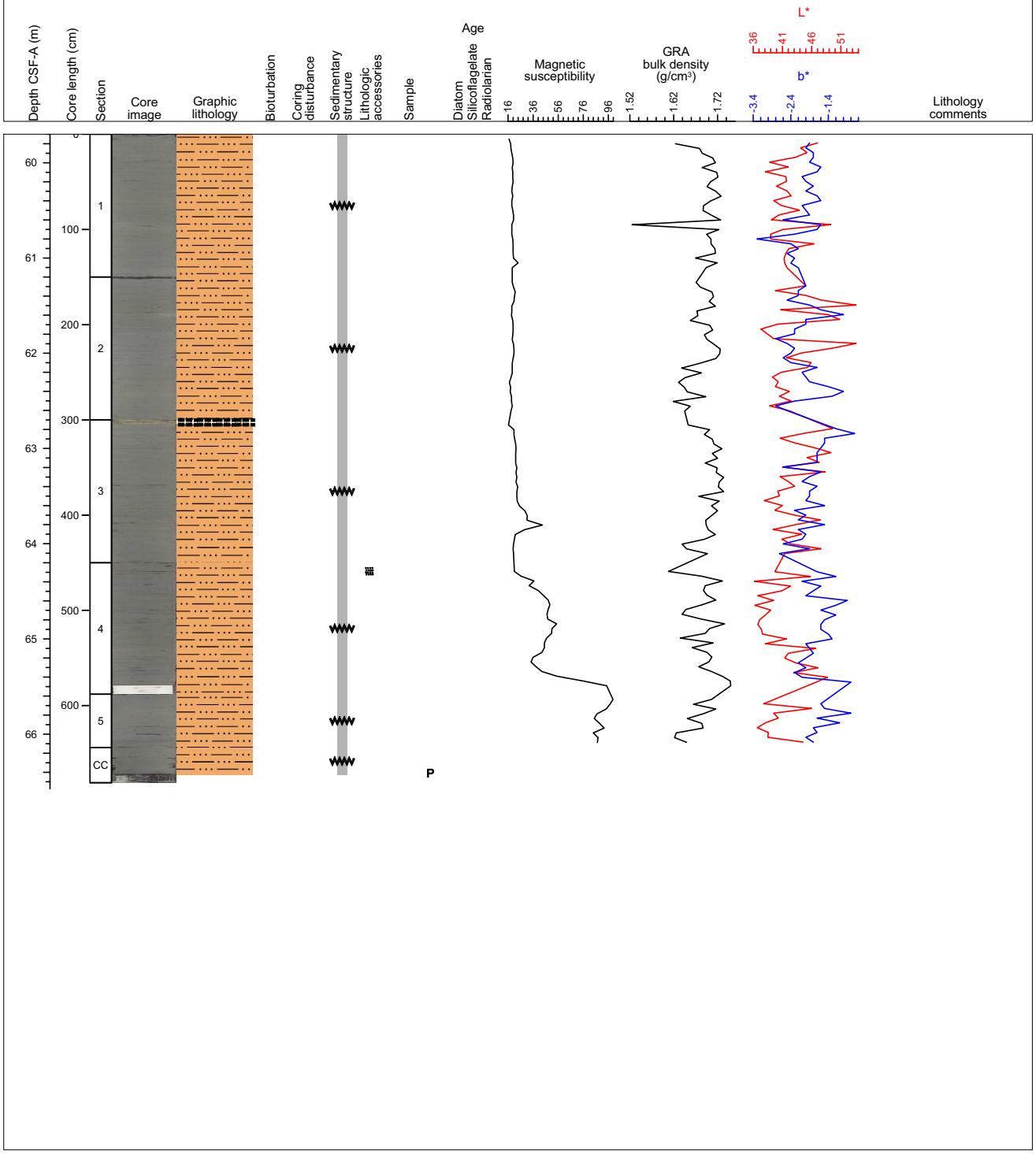
Major lithology: very dark greenish gray diatom-rich silty clay. Secondary lithologies: olive gray foraminifer-bearing diatom silty clay, dark greenish gray authigenic carbonate- and diatom-rich clayey silt, and greenish black sand. The foram-bearing diatom silty clay has a sharp lower boundary and the sand layer has sharp, tilted upper and lower boundaries. Bioturbation is slight throughout the core with many chondrites burrows filled with an assortment of sediments. A clast occurred in section 2. Disturbance is slight to moderate due to gas expansion. The upper 19 cm of section 1 was extruded onto the rig floor.



Core Photo

Hole 323-U1344D Core 8H, Interval 59.7-66.51m (CSF-A)

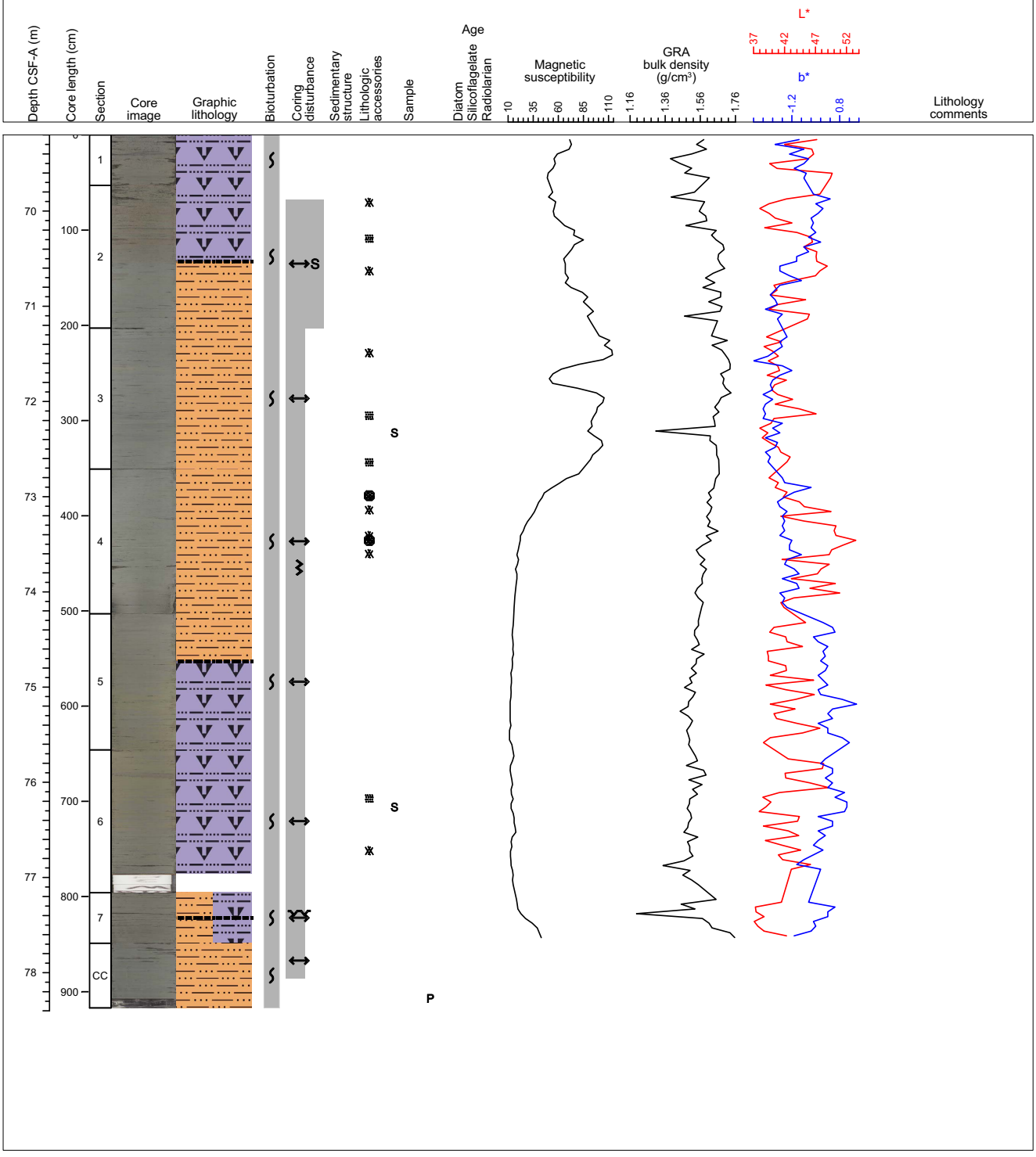
The lithology is very dark greenish gray diatom-bearing clayey silt. Several lighter patches occur throughout the core and they are characterized by abundant microcrystalline aicular authigenic carbonates. A greenish gray dolomite layer occurs on top of section 3. Several sandy mottles wre observed in section 4. Sulfide specks and mottles occur scattered thorughout the core.



Core Photo

Hole 323-U1344D Core 9H, Interval 69.2-78.37m (CSF-A)

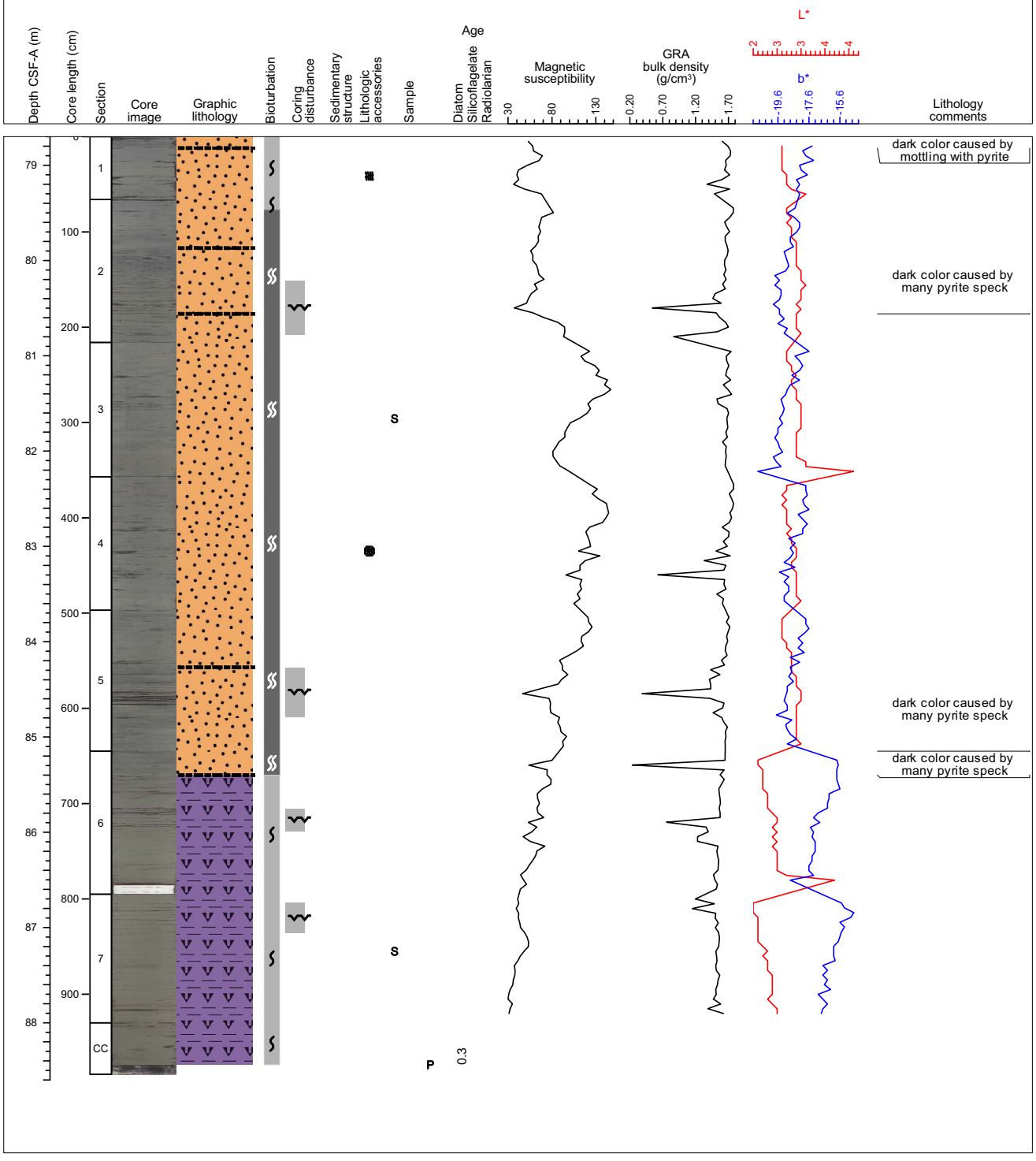
Major lithologies: dark greenish gray diatom clayey silt and greenish black diatom-rich clayey silt. All boundaries are gradational. Bioturbation is slight throughout with mottles of sand, dark green clayey sediment, and light colored sediment. Drilling disturbance is slight due to gas expansion; however, section 1 was extruded onto the rig floor.



Core Photo

Hole 323-U1344D Core 10H, Interval 78.7-88.54m (CSF-A)

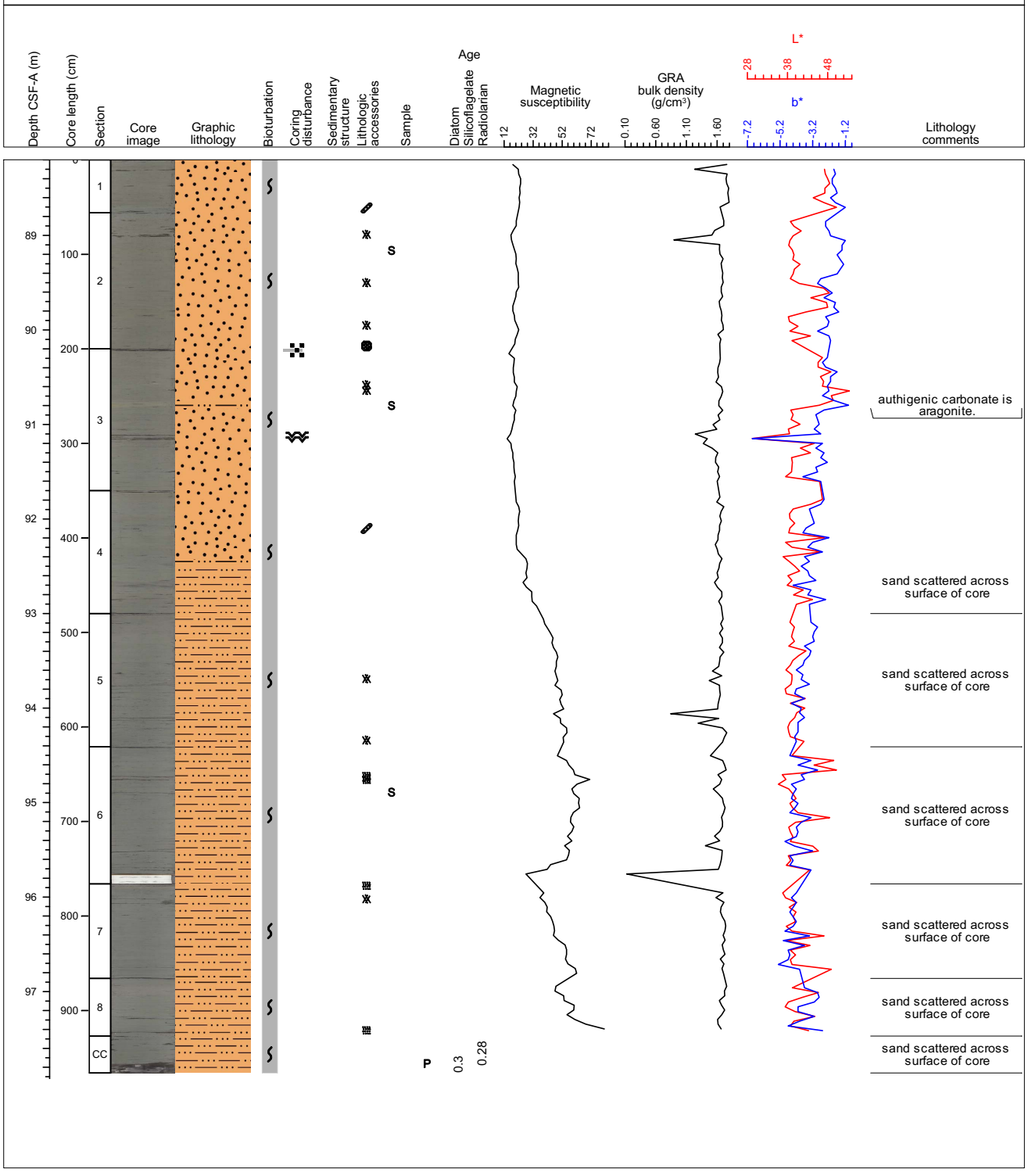
Major lithology: diatom-bearing silt (dark greenish gray 10GY 4/1 to dark gray 4/N) from Section 1 to Section 6 (25cm). Dark color caused by many pyrite specks or mottling; diatom clay (dark greenish gray 10Y 4/1). Many pyrite speck (5mm-)scattered through the core. Rounded basaltic pebble (2cm) occurred in Section 5. Bioturbation is slight to moderate.



Core Photo

Hole 323-U1344D Core 11H, Interval 88.2-97.86m (CSF-A)

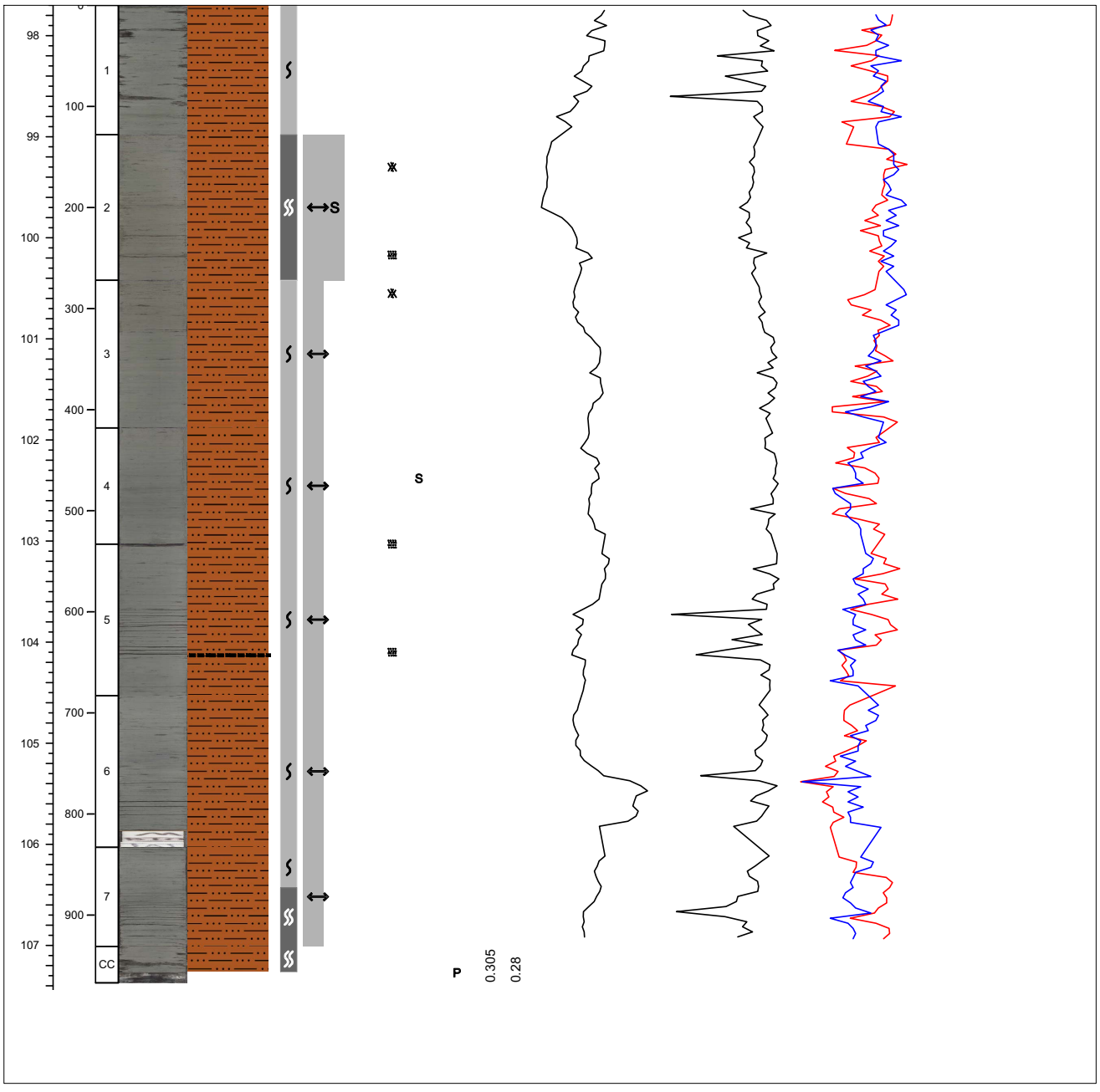
Major lithologies: very dark greenish gray diatom-rich silt and very dark gray clayey silt. Secondary lithology: dark greenish gray. Sand is present in both mottles and 1 mm to 2 cm thick layers. Bioturbation is slight throughout, expressed as mottles and pyrite streaks. A lithified, pyritized worm tube was found in section 4. Drilling disturbance is absent except for section 1 and the top 25 cm of section 2 which were extruded onto the rig floor.



Core Photo

Hole 323-U1344D Core 12H, Interval 97.7-107.37m (CSF-A)

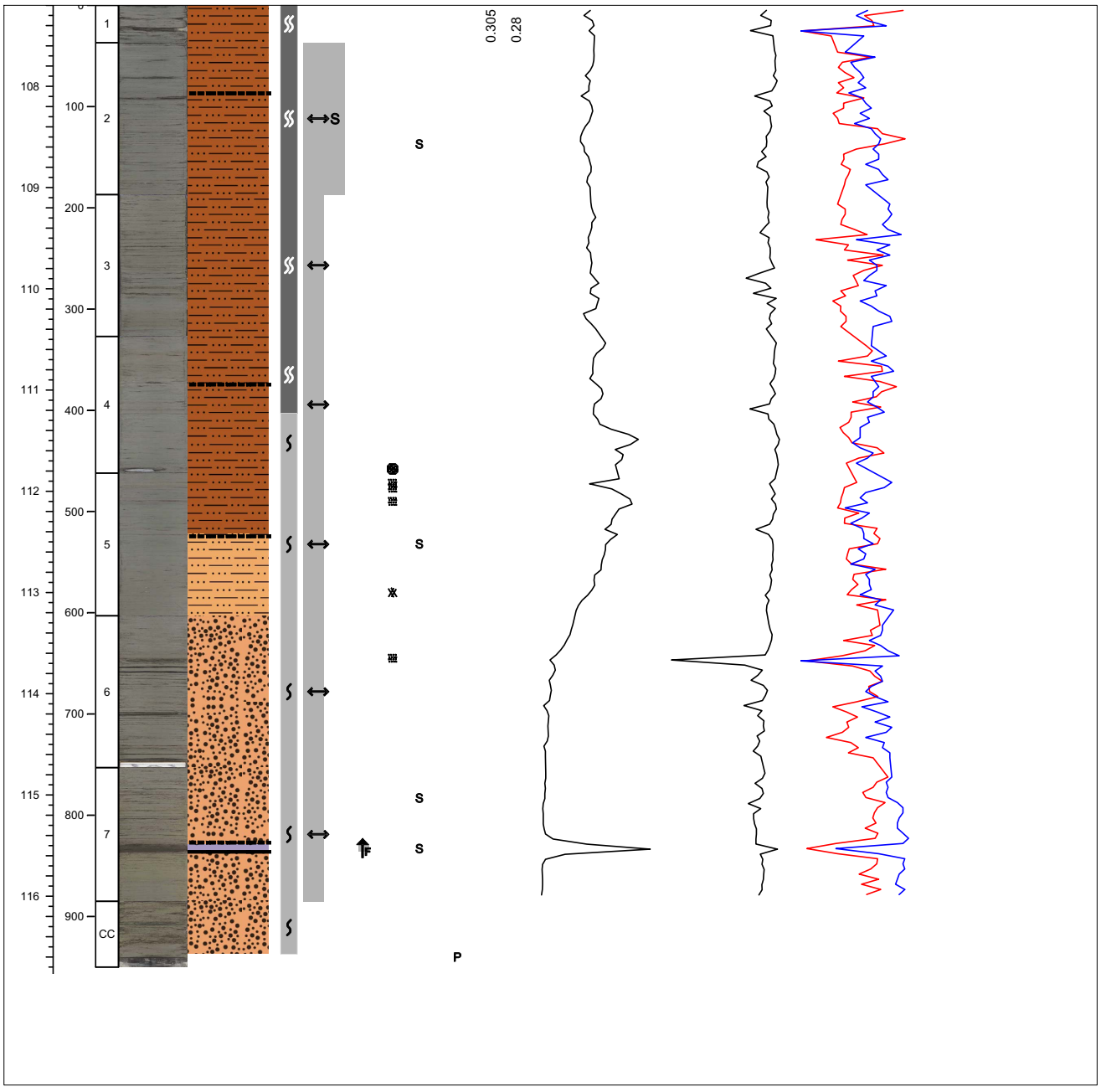
Major lithologies: Soft, dark gray to dark greenish gray diatom-rich silty clay; bioturbated sandy layers and mottles throughout most of the core; pyrite mottles in sections 4 to CC; slight to moderate bioturbation; slight gas expansion throughout, section 1 heavily disturbed



Core Photo

Hole 323-U1344D Core 13H, Interval 107.2-116.7m (CSF-A)

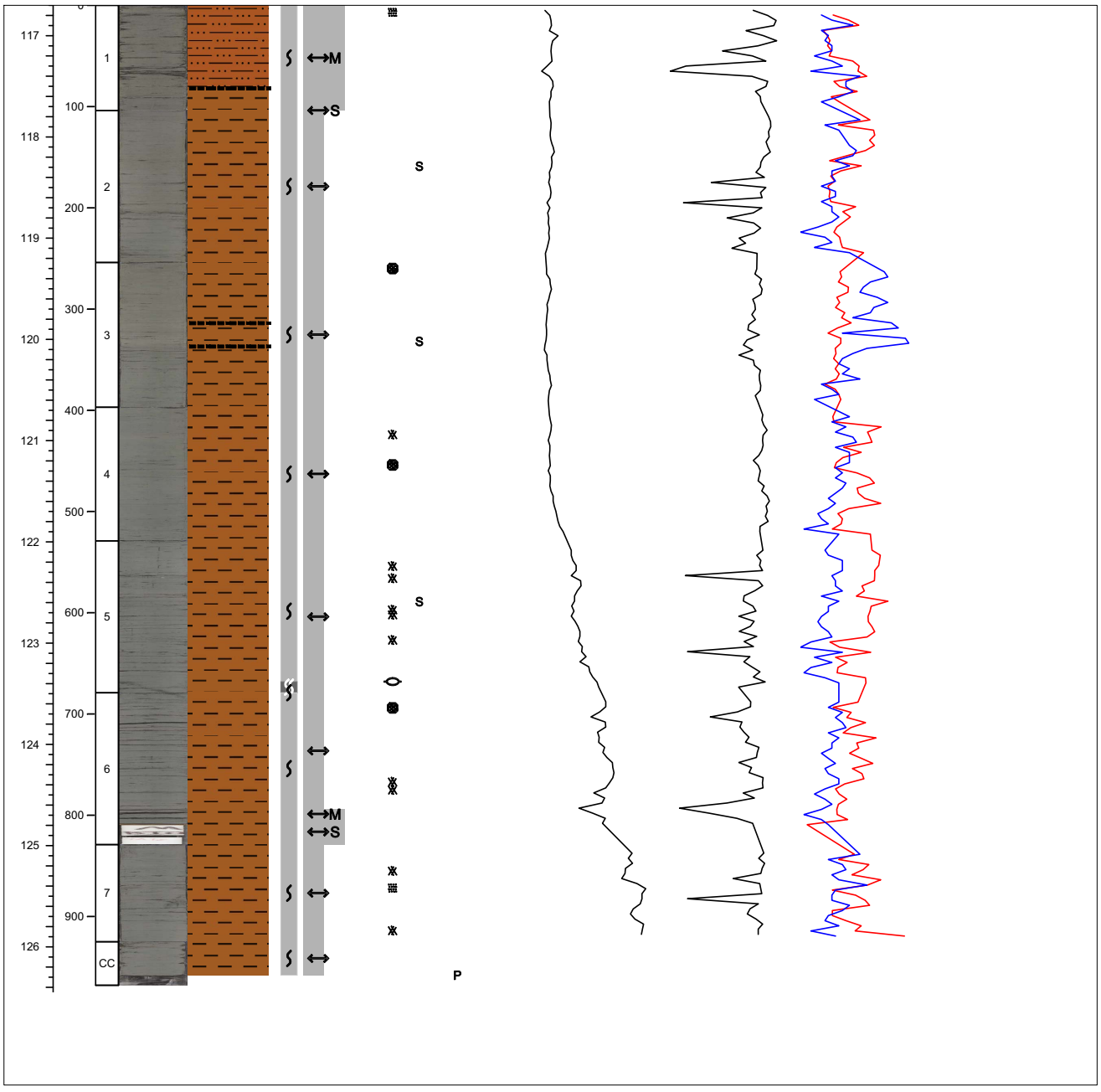
Major lithologies: Soft, dark gray to to dark greenish gray diatom-rich silty clay, clayey silt and sandy silt; gradational boundaries between different colours; dark brownish fine-ashy silt layer in section 7, with gradational top and sharp base, fining upward; sandy mottles throughout most of the core; sandy layers in sections 5 and 6; coarse volcaniclastic pebble in lower section 4; slight to moderate bioturbation; slight gas expansion throughout, section 1 heavily disturbed



Core Photo

Hole 323-U1344D Core 14H, Interval 116.7-126.38m (CSF-A)

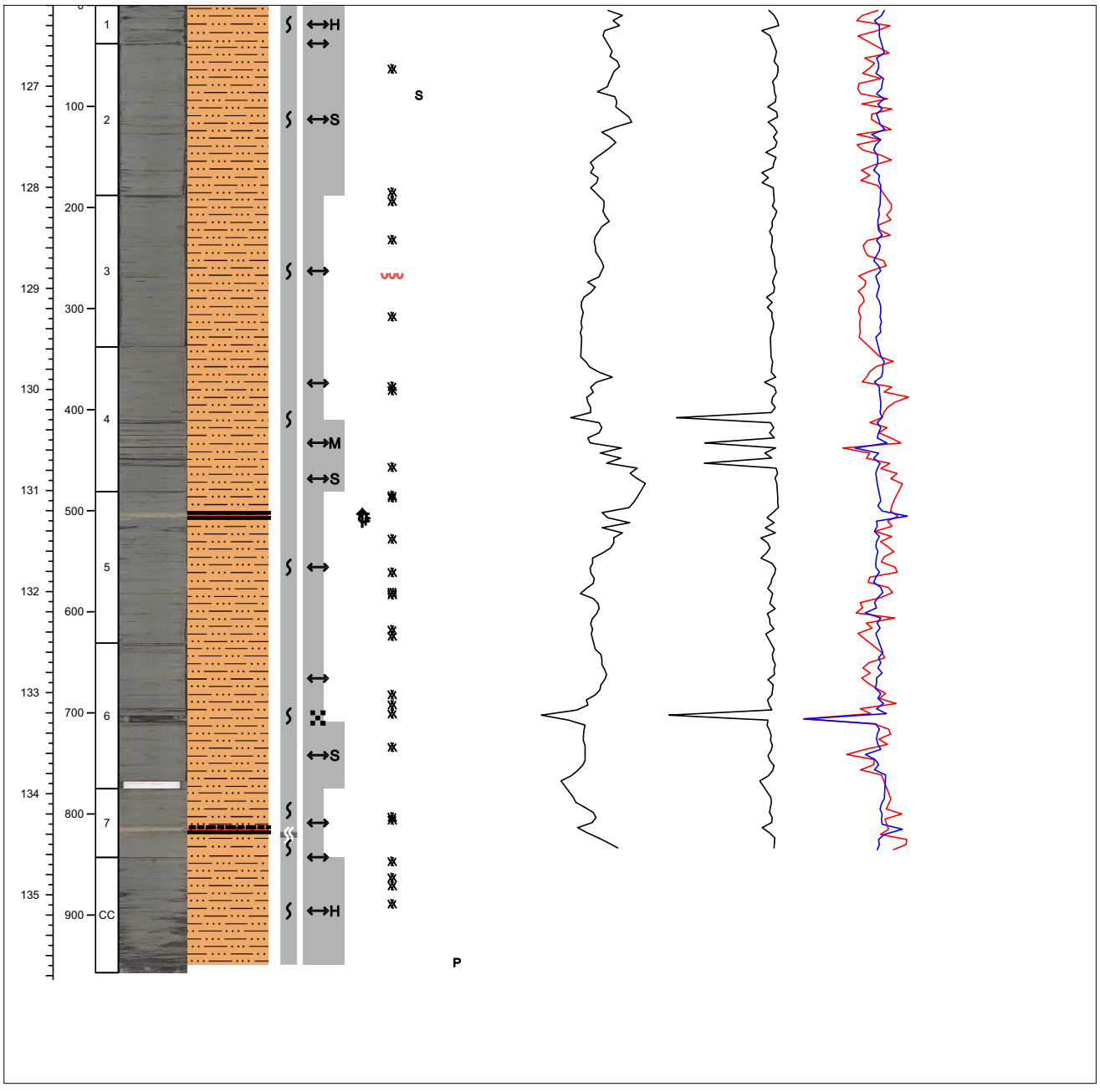
The main lithologies are very dark greenish grey diatom-bearing clay and diatom-bearing silty clay. There is an interval of authigenic carbonate-rich diatom-rich clay in section 3. All boundaries are gradational. There are streaky black mottles, sandy patches and occasional sponge spicules. Bioturbation is mostly slight and drilling disturbance is slight except in section 1.



Core Photo

Hole 323-U1344D Core 15H, Interval 126.2-135.77m (CSF-A)

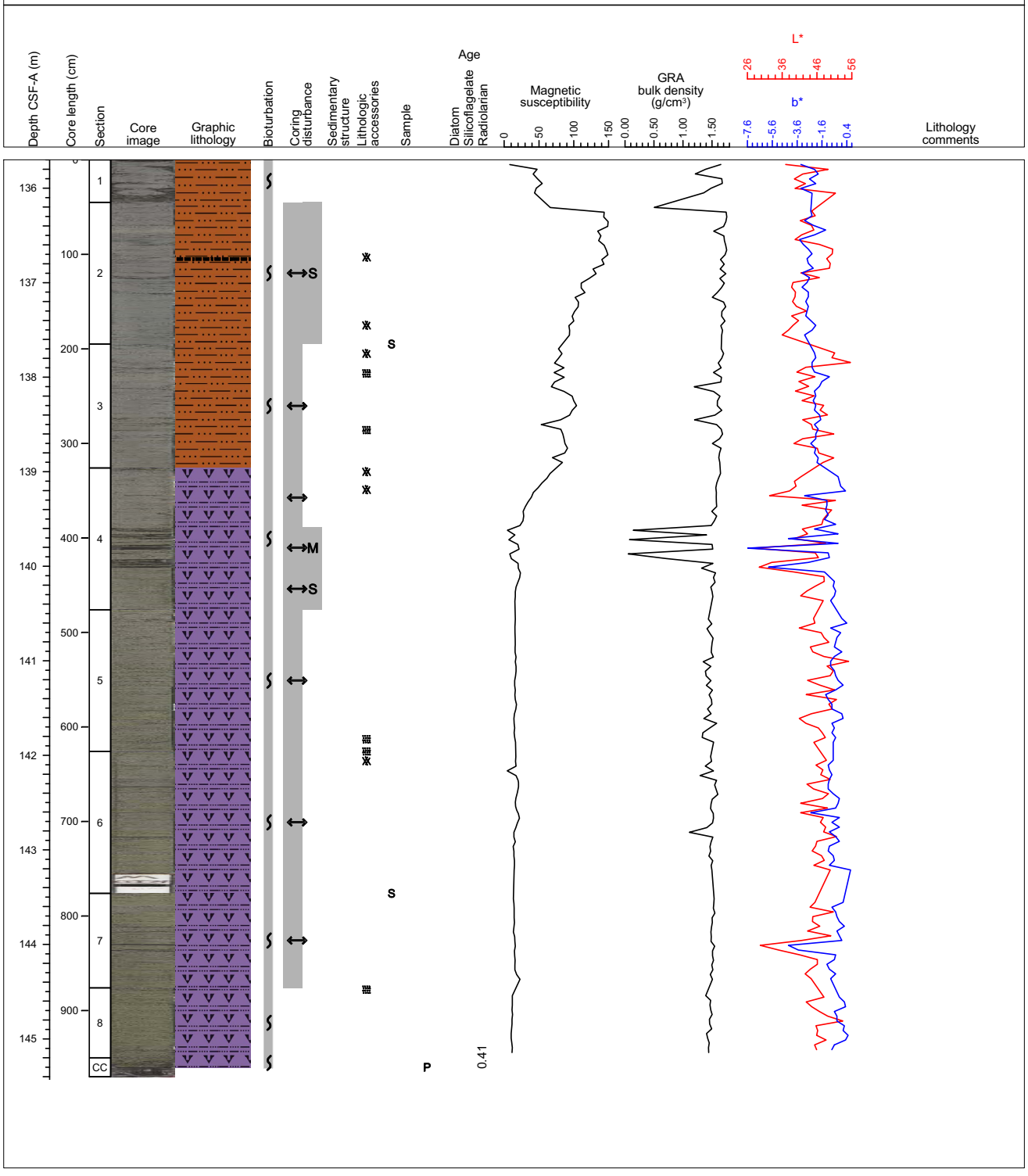
The main lithology is very dark greenish grey diatom-rich clayey silt. There are 5 cm thick olive grey fine ash layers in sections 5 and 7. There are black streaky mottles, sponge spicule aggregates, and sandy patches throughout the core. Bioturbation is mostly slight. Drilling disturbance is severe in section 1 and the core catcher due to gas expansion but mostly slight between.



Core Photo

Hole 323-U1344D Core 16H, Interval 135.7-145.4m (CSF-A)

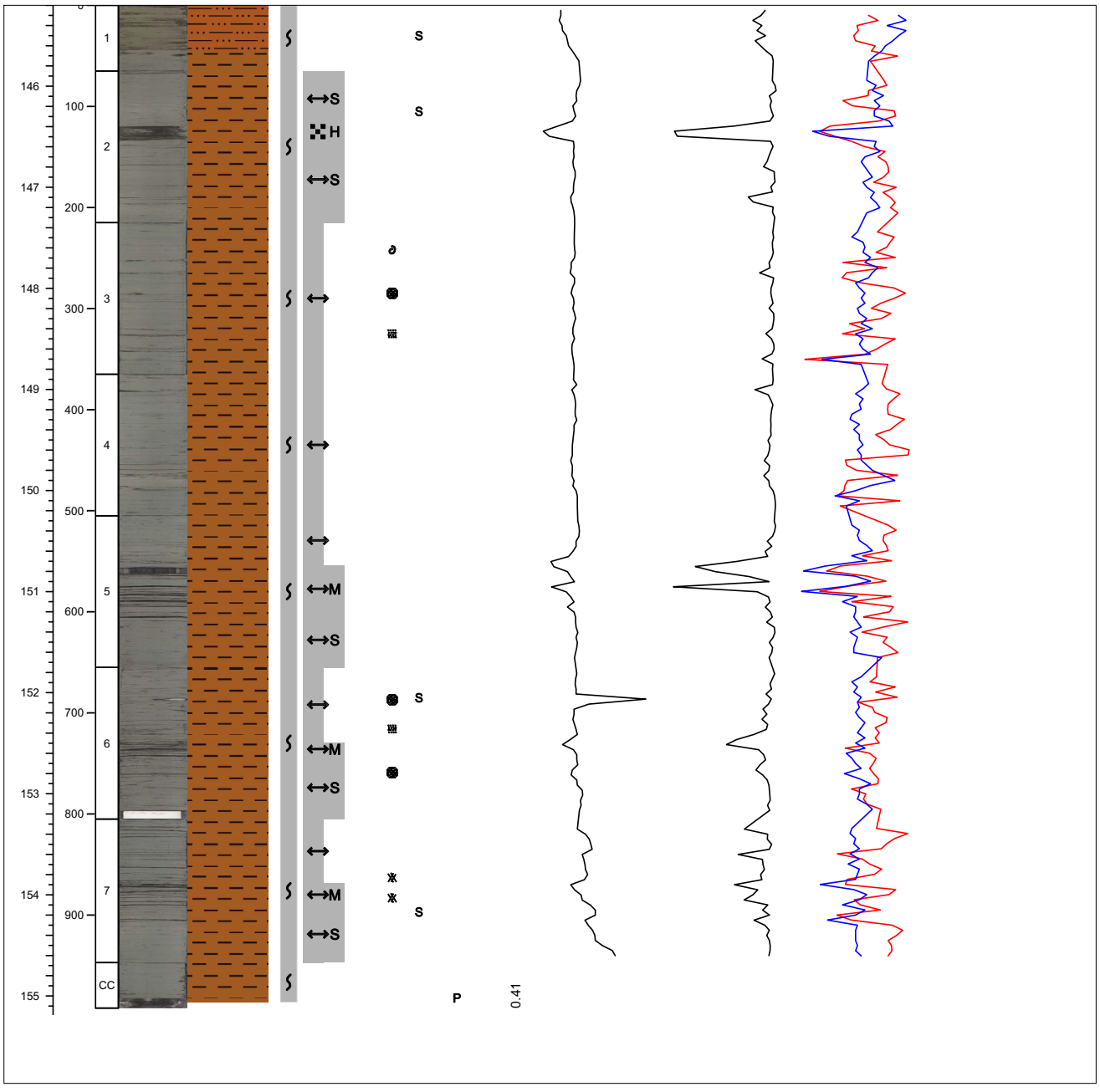
Major lithologies: Soft, dark gray to dark greenish gray diatom-rich silty clay and diatom silty clay; sandy layers in sections 3 and 8; sandy mottles in sections 2, 6, 7, 8 and CC; sponge spicule aggregates occu sparsely throughout the core; slight bioturbation, slight to moderate gas expansion, section 1 heavily disturbed



Core Photo

Hole 323-U1344D Core 17H, Interval 145.2-155.12m (CSF-A)

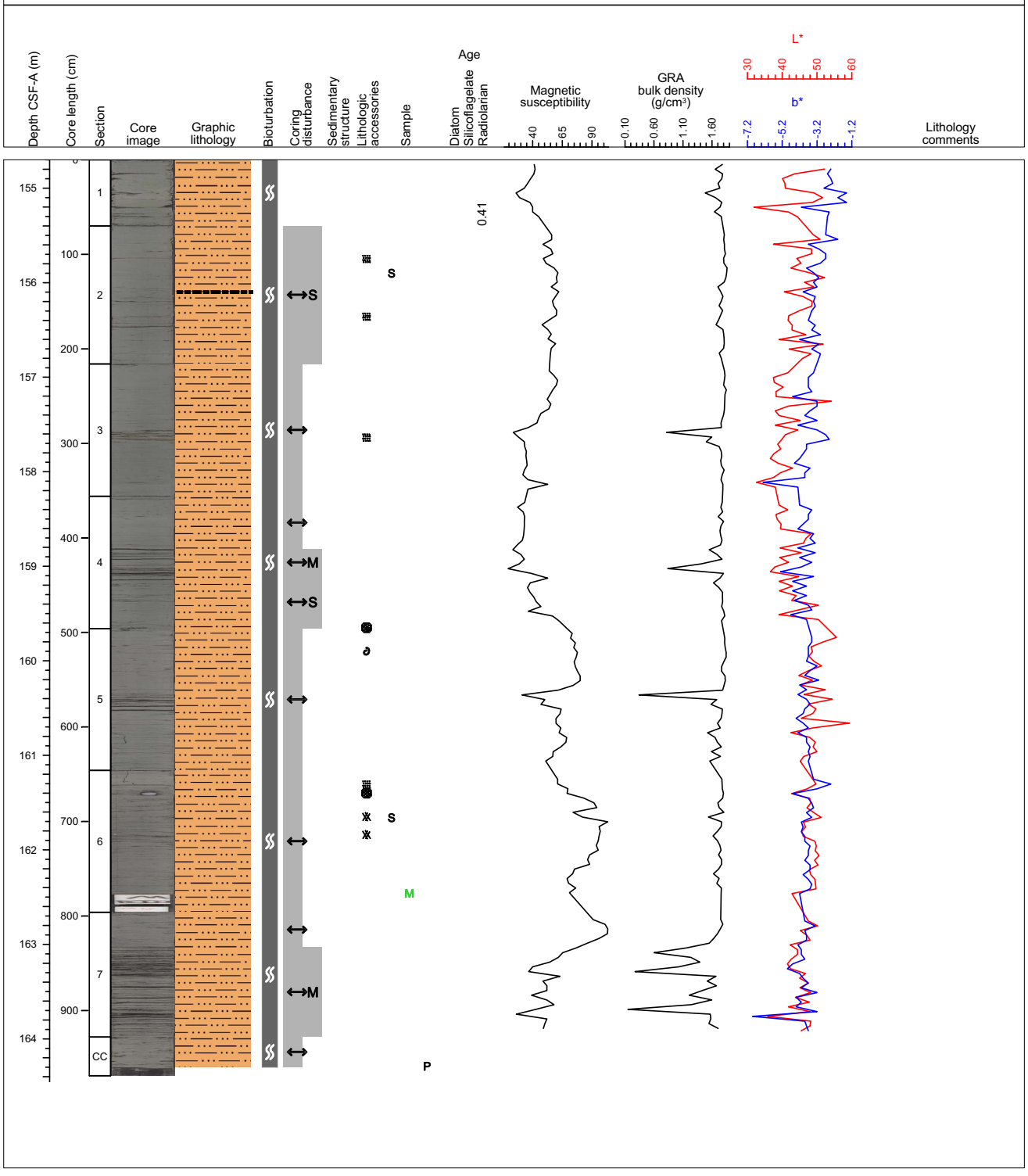
Major lithologies: Soft, dark gray to dark greenish gray diatom-rich silty clay and authigenic carbonate-rich diatom-bearing clay; sandy mottles in sections 1, 2 and 6; bioturbated sandy layers in sections 3 and 6; clasts in sections 3 and 6; light bioturbation; sight to moderate gas expansion, section 1 heavily disturbed



Core Photo

Hole 323-U1344D Core 18H, Interval 154.7-164.39m (CSF-A)

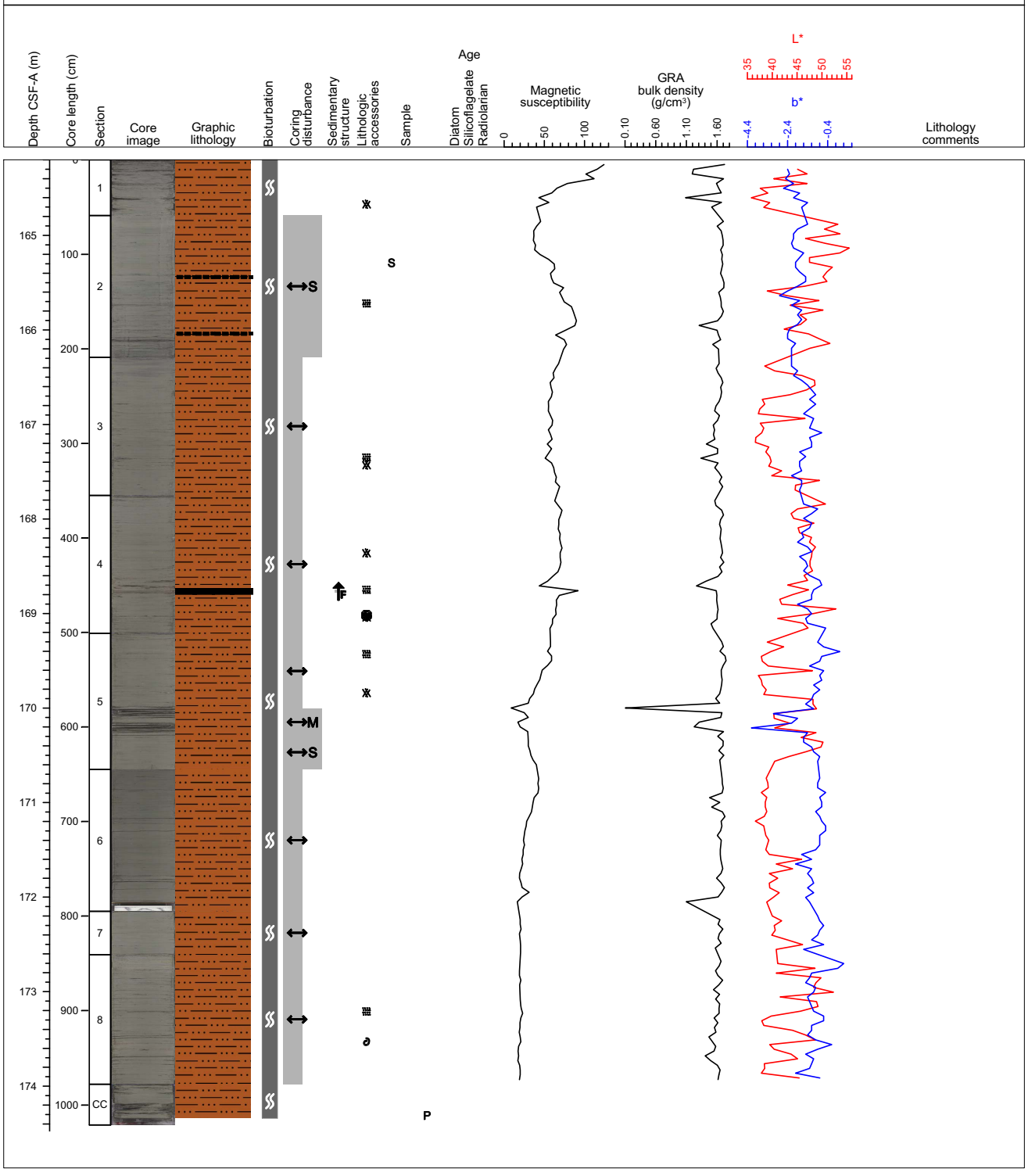
Major lithologies: Soft, dark gray to dark greenish gray diatom-bearing clayey silt; bioturbated sandy layers in sections 2, 3, 4 and 6; sandy mottles in sections 4 to 7; clasts in sections 4 and 6; moderate bioturbation; slight to moderate gas expansion, section 1 heavily disturbed



Core Photo

Hole 323-U1344D Core 19H, Interval 164.2-174.41m (CSF-A)

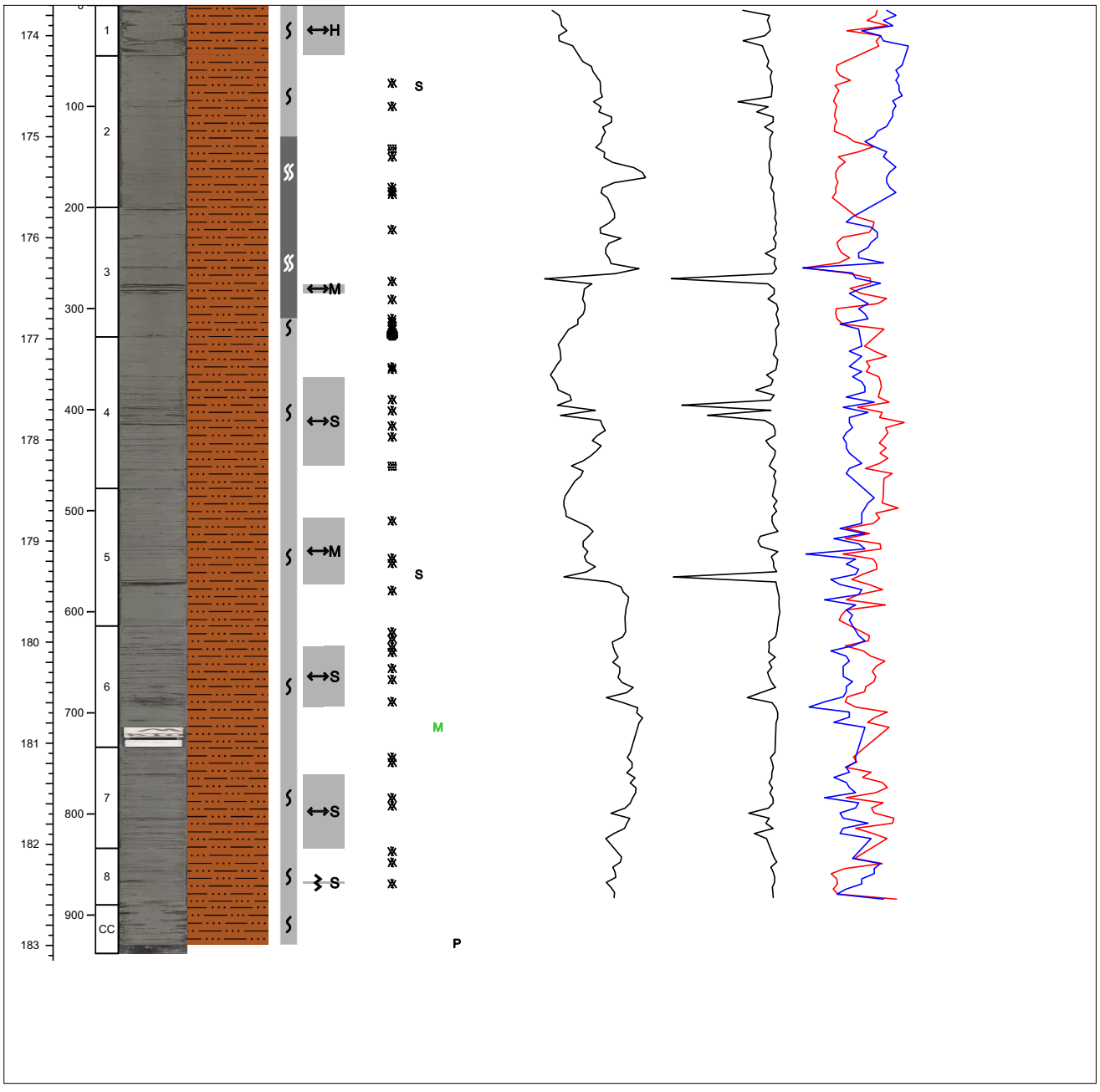
Major lithologies: Soft, dark gray to dark greenish gray diatom-rich silty clay; pyrite mottles in sections 1 to 3; bioturbated sandy layers in sections 2, 3, 5 and 8; sandy layer with sharp top and base in section 4, fining upward; moderate biotubation; slight to moderate gas expansion, section 1 heavily disturbed



Core Photo

Hole 323-U1344D Core 20H, Interval 173.7-183.08m (CSF-A)

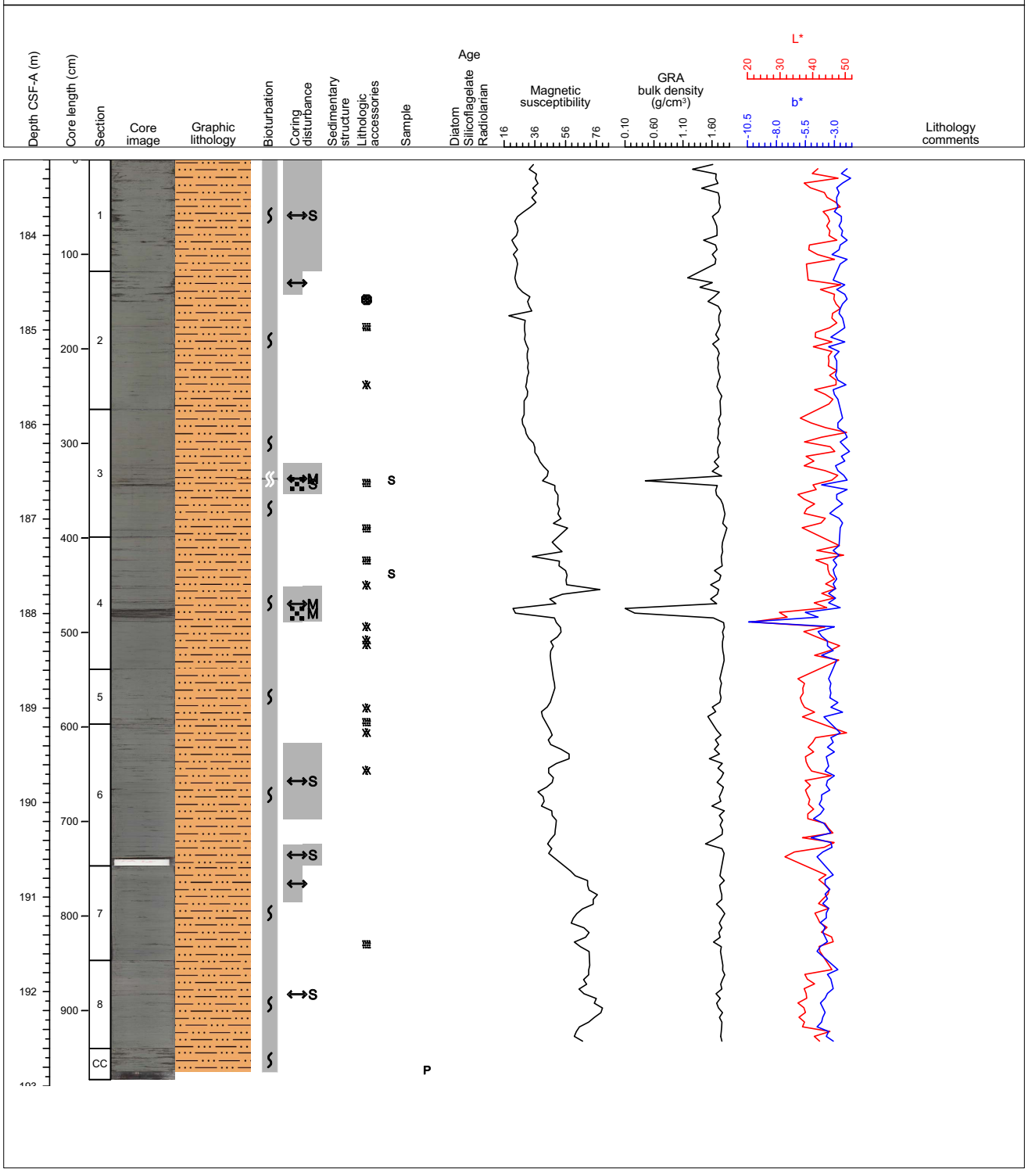
Main lithology: dark greenish gray soft diatom-rich silty clay. Drilling disturbance due to gas expansion is severe at Sec. 1. Disturbance of the rest of the core is slight. Slight to moderate bioturbation throughout. Sponge spicule aggregates are appeared at Sec. 2 to 8.



Core Photo

Hole 323-U1344D Core 21H, Interval 183.2-192.93m (CSF-A)

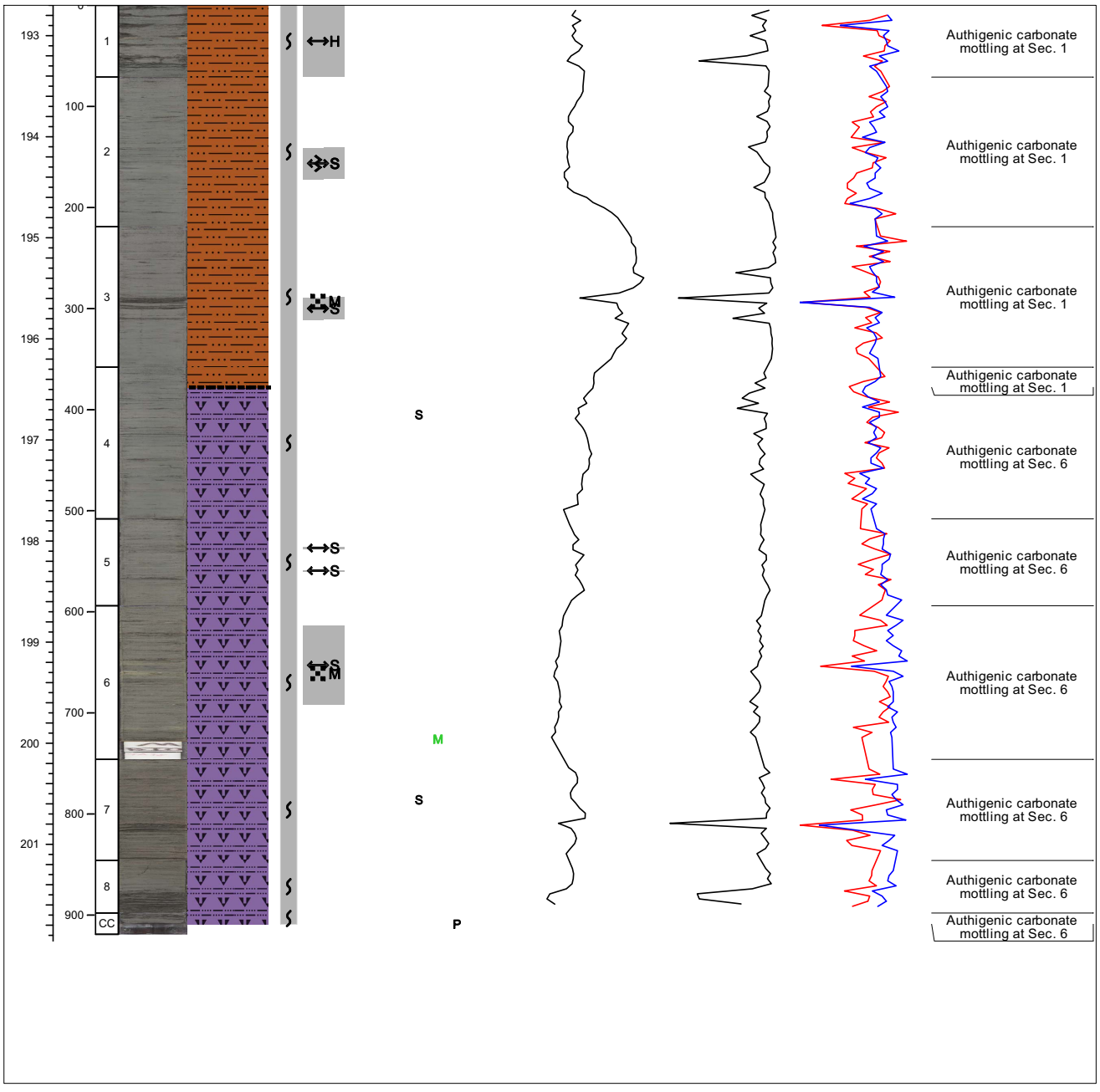
Main lithology: dark greenish gray soft diatom-rich clayey silt. Ashy patch occurrs at Sec. 3. Silght to moderate bioturbation throughout the core. Slight drilling disturbance are recognized at Sec 1-4 and 6-CC.



Core Photo

Hole 323-U1344D Core 22H, Interval 192.7-201.89m (CSF-A)

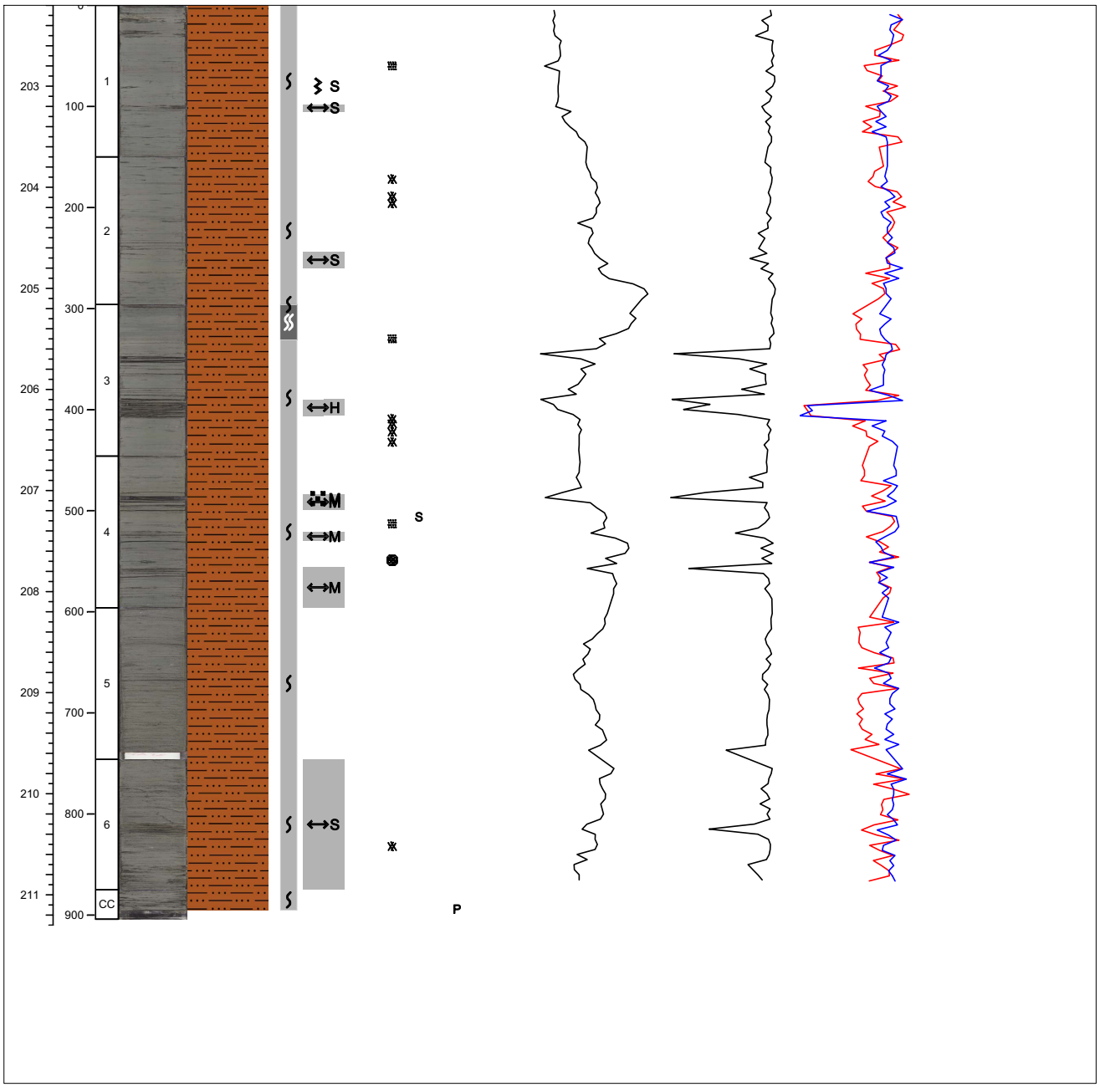
Main lithology: soft dark greenish gray diatom-rich silty clay (Sec. 1-4) and diatom silty clay (Sec. 5-CC). Gradual change in grain size (coarser) from the top of the core to the bottom of the core. Authigenic carbonate mottles at Sec. 1 and 6.



Core Photo

Hole 323-U1344D Core 23H, Interval 202.2-211.24m (CSF-A)

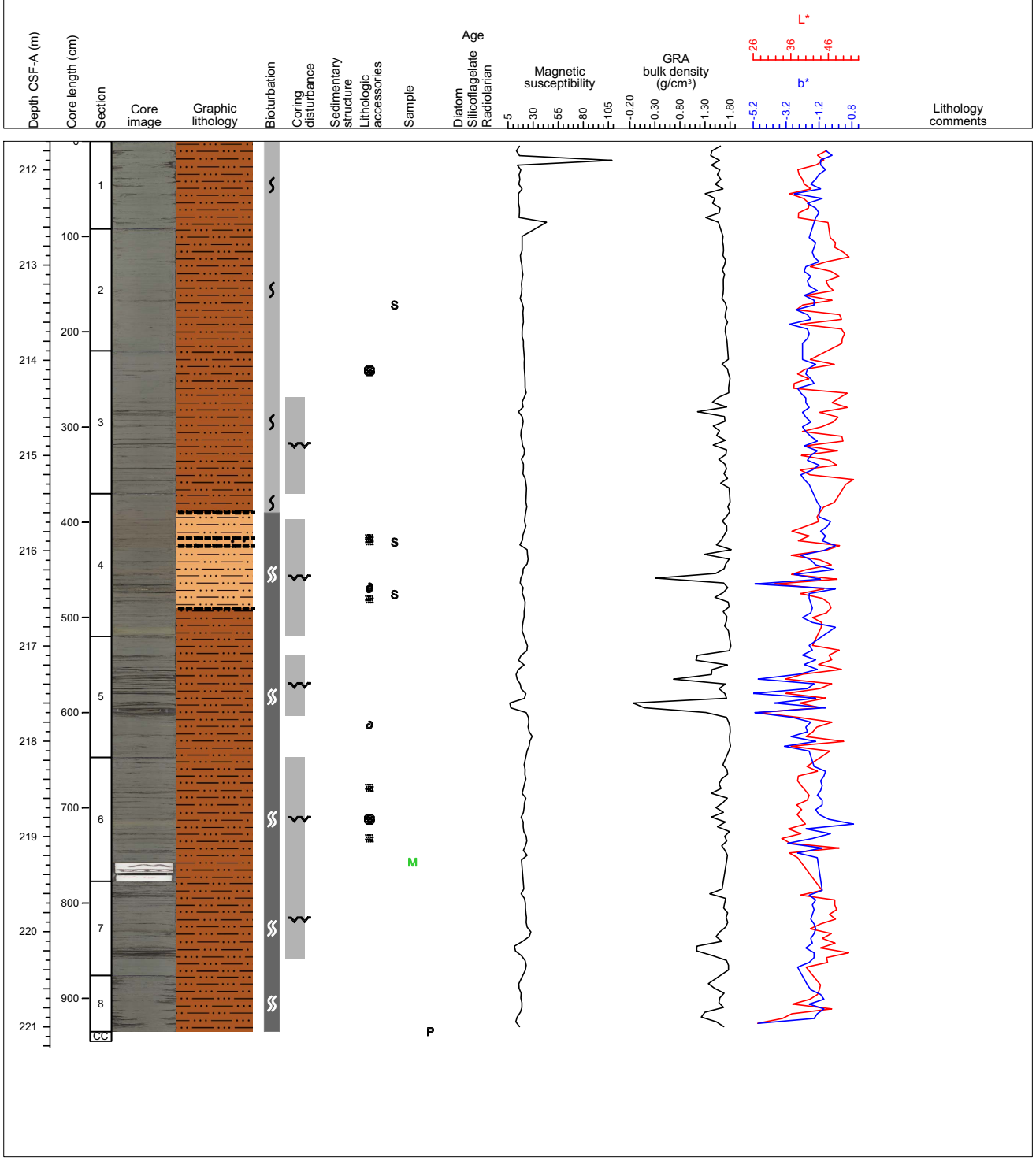
Main lithology: dark greenish gray soft diatom rich silty clay. Slightly bioturbated. Specks of pyrite are present throughout the core. Drilling disturbances due to gas expansion are recognized at thoroughout the core. Most severe drilling disturbance occurrs at Sec. 3.



Core Photo

Hole 323-U1344D Core 24H, Interval 211.7-221.15m (CSF-A)

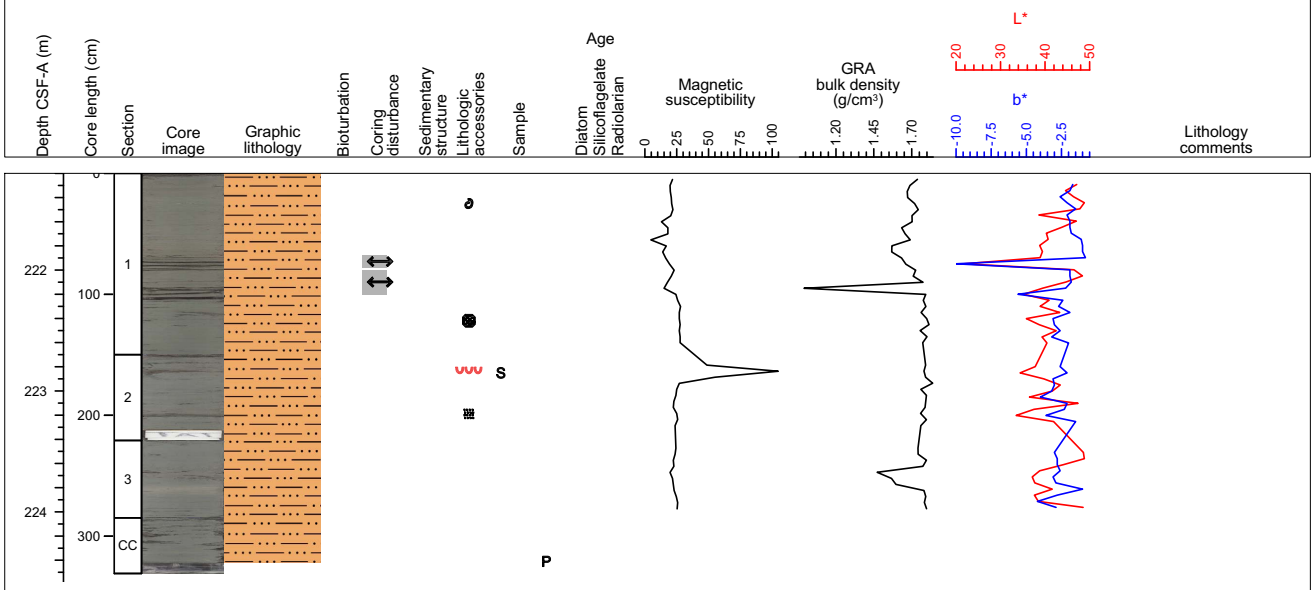
Major lithology: diatom-rich silty clay (dark greenish gray 5GY 4/1). Secondary lithology (Section 4; 20-121cm): diatom-rich clayeysilt (very dark greenish gray 10Y 3/1); diatom-bearing silty clay (dark olive 5Y 4/2). Many sandy patchs and mottlings occurred in Section 4 to Section 6.



Core Photo

Hole 323-U1344D Core 25H, Interval 221.2-224.51m (CSF-A)

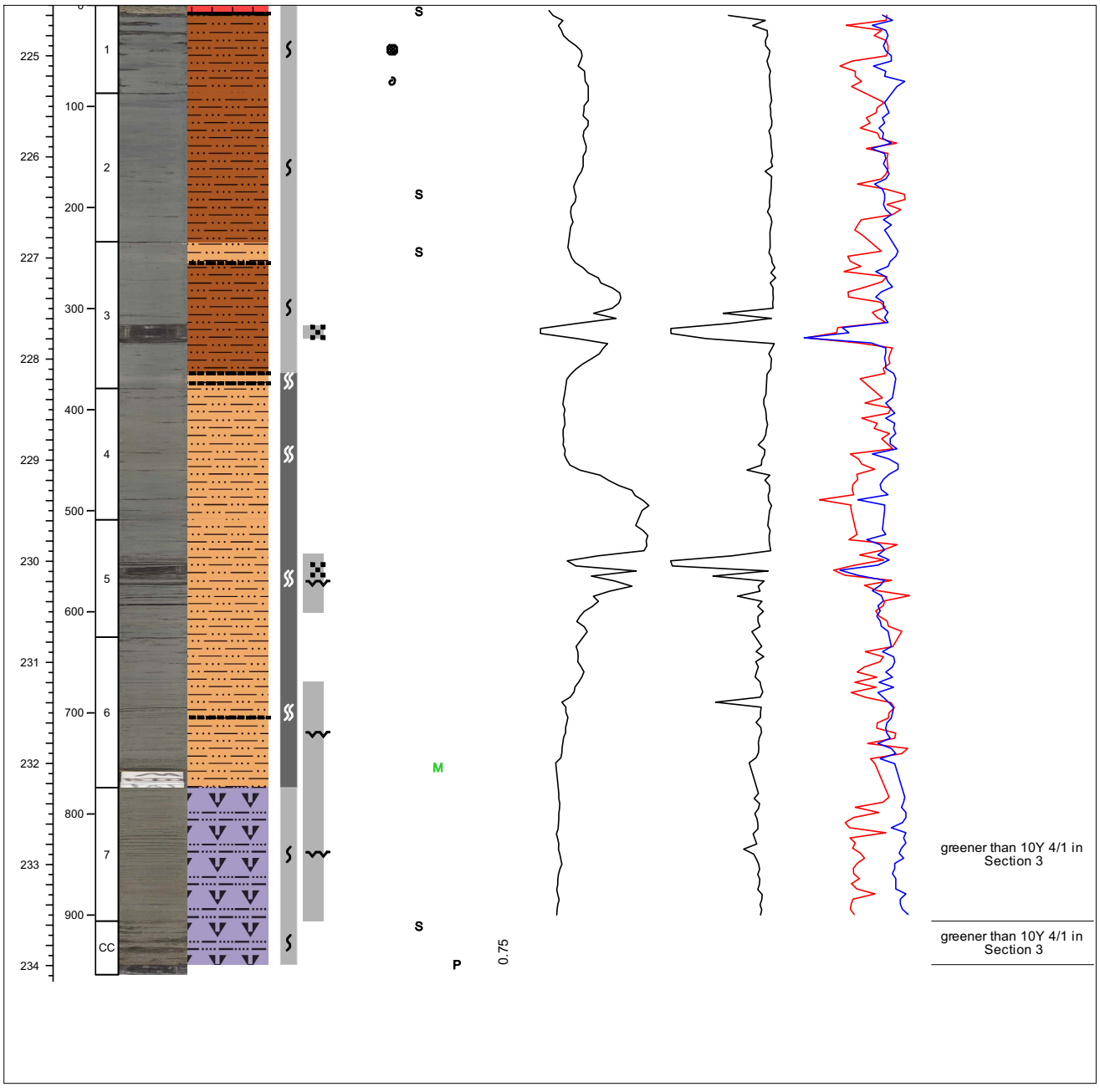
The main lithology is dark greenish gray diatom-rich silty clay. A small pebble and sandy mottles are present in section 1. An ash and a sandy layer occur in section 2. The core shows light-colored authigenic carbonate-rich layers and patches throughout. Mottling is also present.



Core Photo

Hole 323-U1344D Core 26H, Interval 224.5-234.09m (CSF-A)

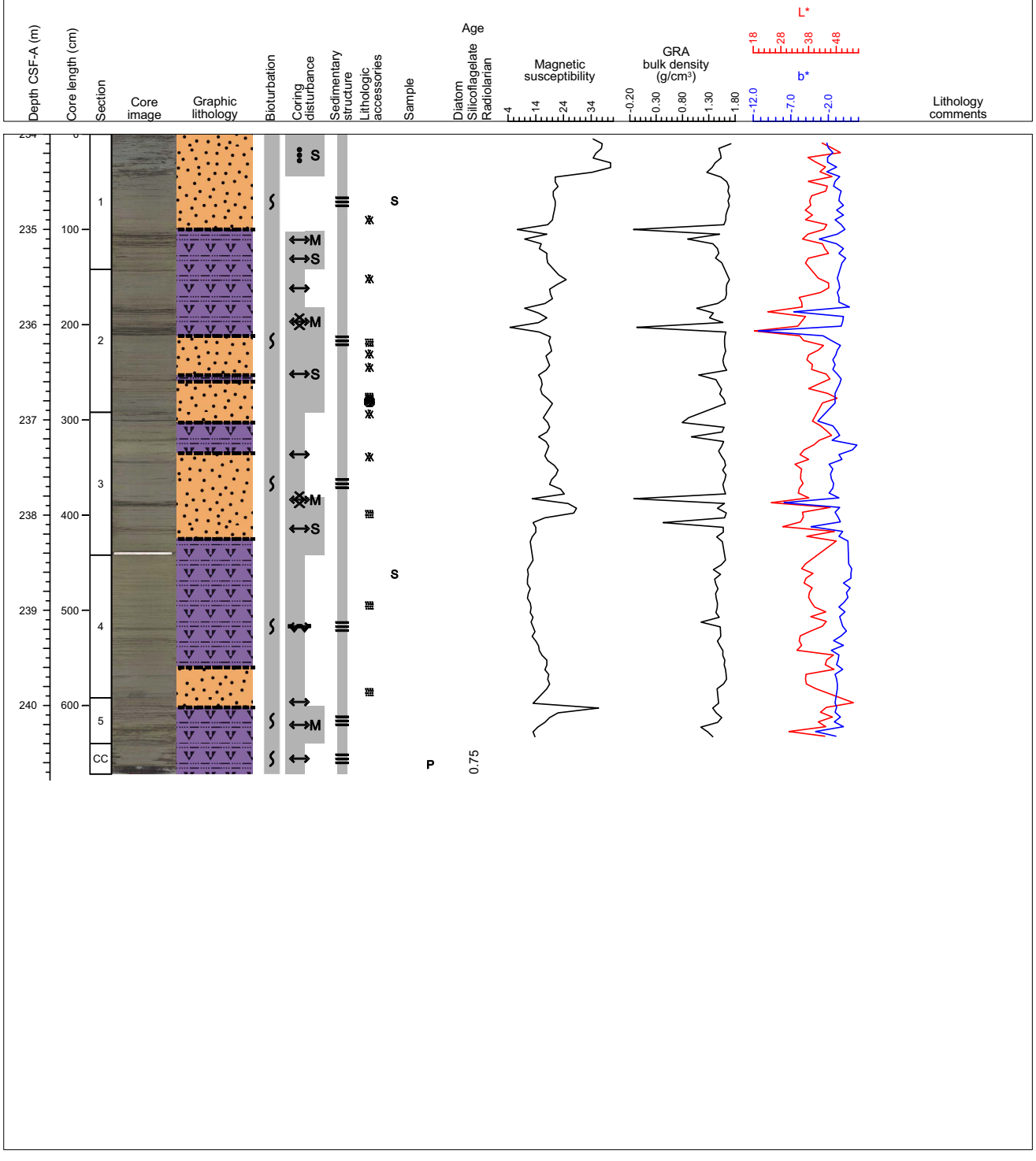
Major lithology: diatom-rich silty clay (very dark gray 3/N) from Section 1 to Section 3; diatom-rich clayey silt (very dark greenish gray 10Y 3/1) from Section 3 to Section 6; diatom clayey silt (dark greenish gray 10Y 4/1) from Section 7 to CC. Pale ash layer occurred in the top of Section 1. Bioturbation is slight to moderate.



Core Photo

Hole 323-U1344D Core 27H, Interval 234.0-240.72m (CSF-A)

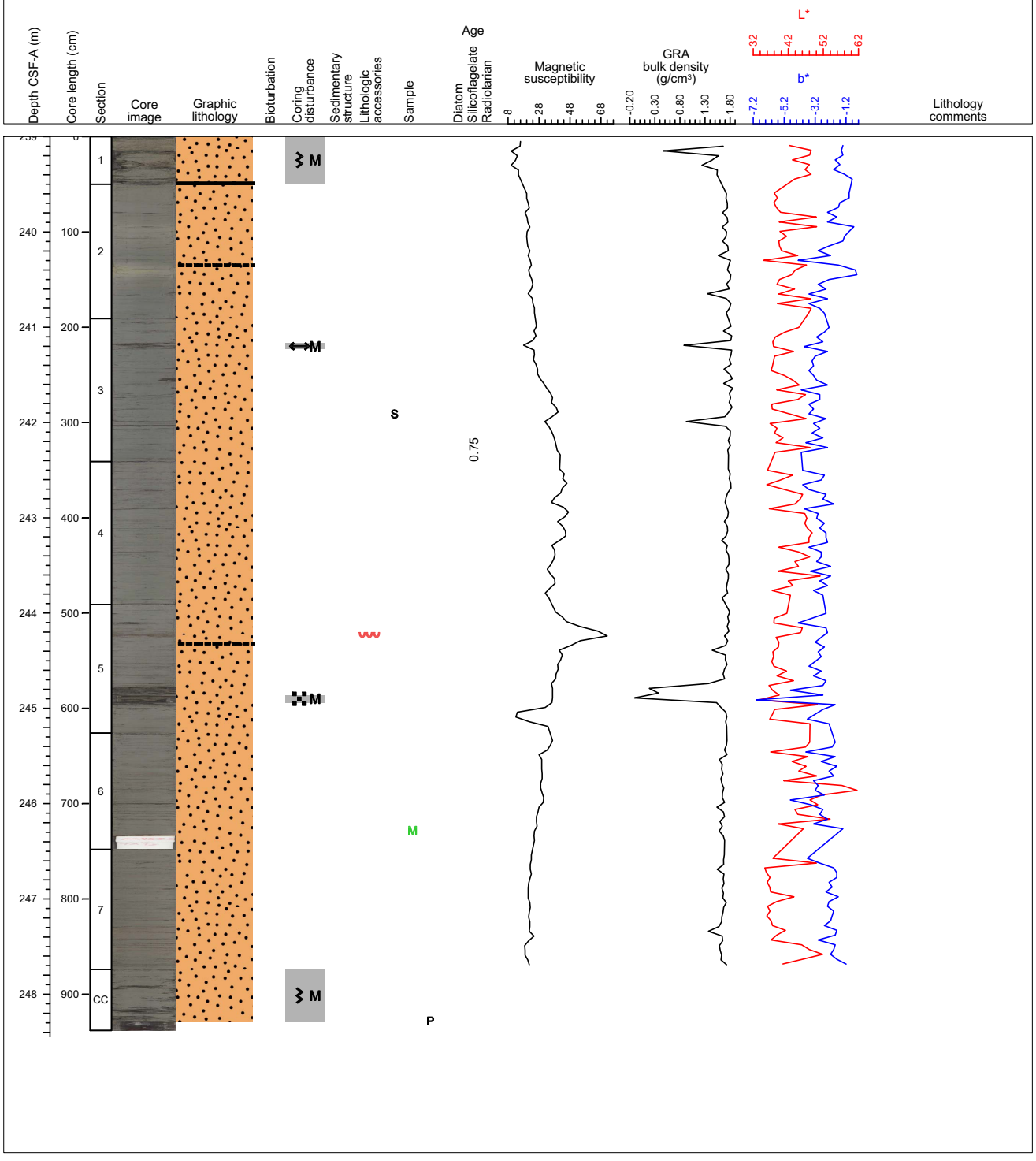
Major lithologies: alternating thick beds of very dark greenish gray diatom-rich silt and dark greenish gray diatom silty clay. Bioturbation is slight throughout the core with sand and dark green mottles. Several sandy layers are also observed, especially along cracks. Gas expansion led to slight to moderate drilling disturbance. The more diatom-rich lithology (diatom silty clay) tended to crack and expand more than the grayer lithology (diatom-rich silt).



Core Photo

Hole 323-U1344D Core 28H, Interval 239.0-248.38m (CSF-A)

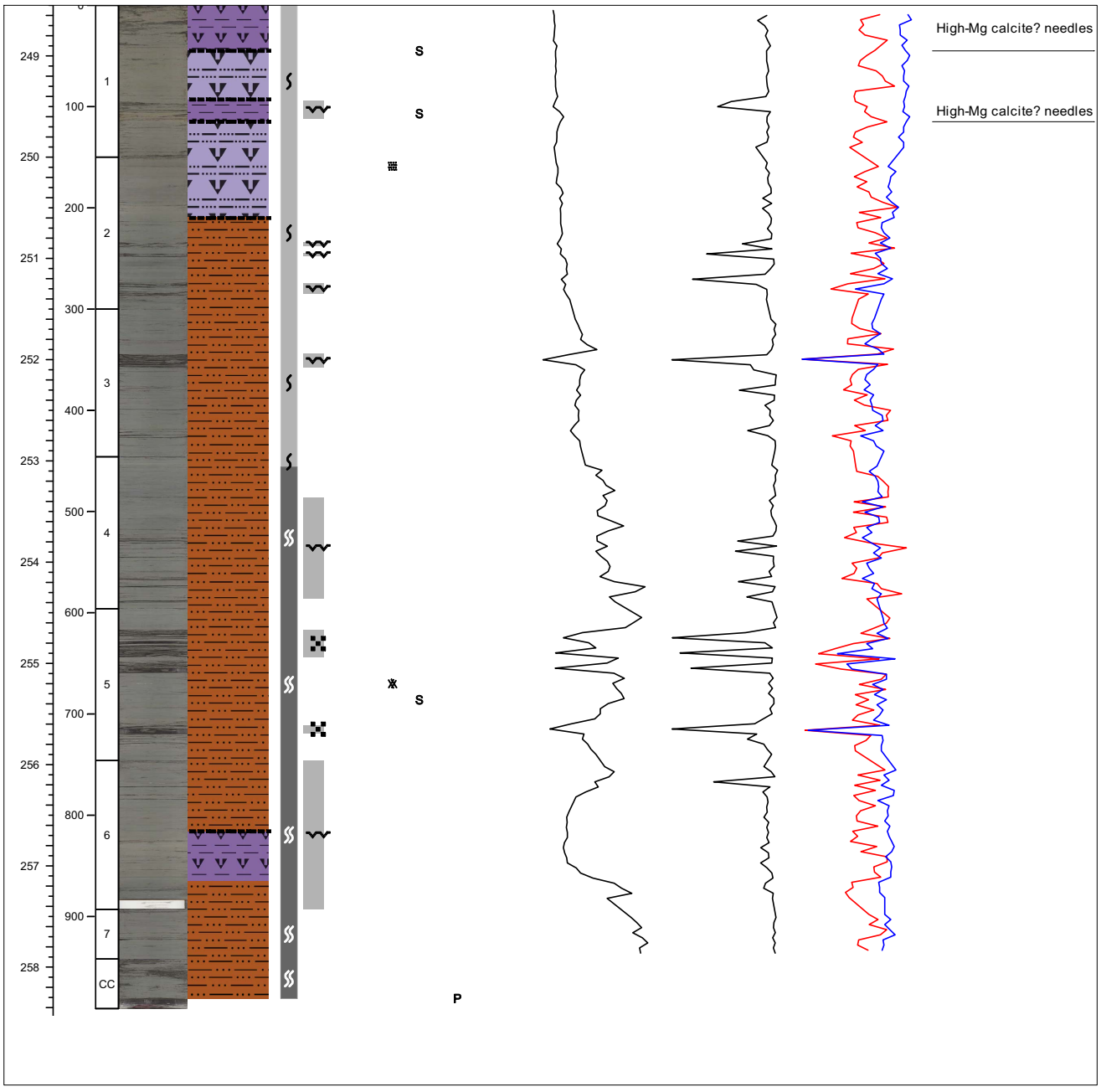
The main lithologies are very dark greenish gray diatom-rich silt (sections 1and 5 to CC), dark greenish gray authigenic carbonate diatom-rich silt (mainly section 2), and dark grey diatom-bearing silt (sections 3 and 4). Sulfide specks and mottles occur throughout the core. A sand and an ash mottle ocur in sections 3 and 5, respectively.



Core Photo

Hole 323-U1344D Core 29H, Interval 248.5-258.41m (CSF-A)

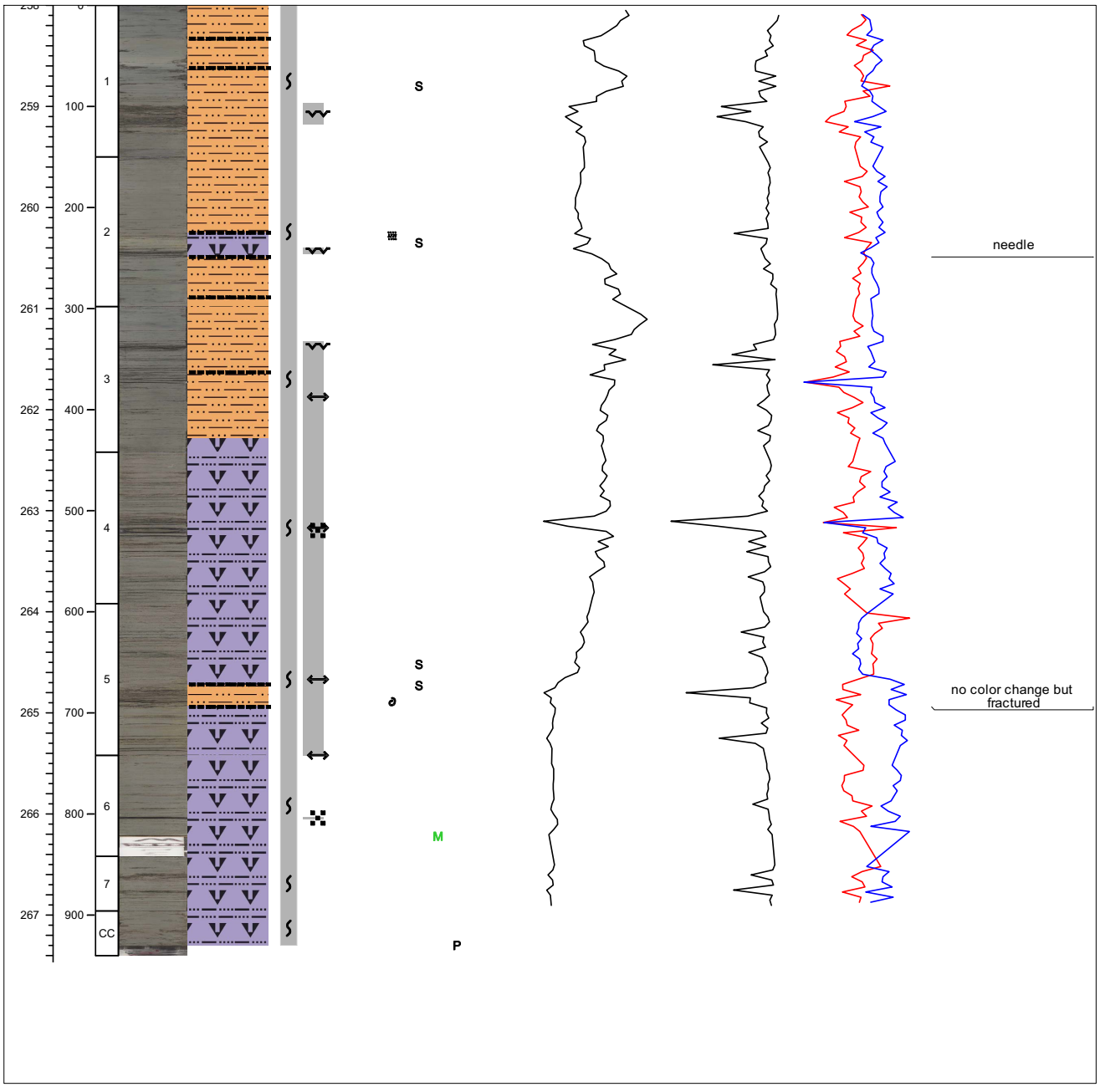
Major lithology:diatom clayey silt (dark greenish gray 10Y 4/1) from Section 1 to Section 6 (60cm); diatom-rich clayey silt (dark gray 4/N). from Section 2 to CC. Authigenic carbonate rich layer occurred in Section 1 (0-45cm; 93-115cm) and section 6 (70-120cm). Sand layer occurred in Section 2 (9-10cm). Bioturbation is slight to moderate.



Core Photo

Hole 323-U1344D Core 30H, Interval 258.0-267.4m (CSF-A)

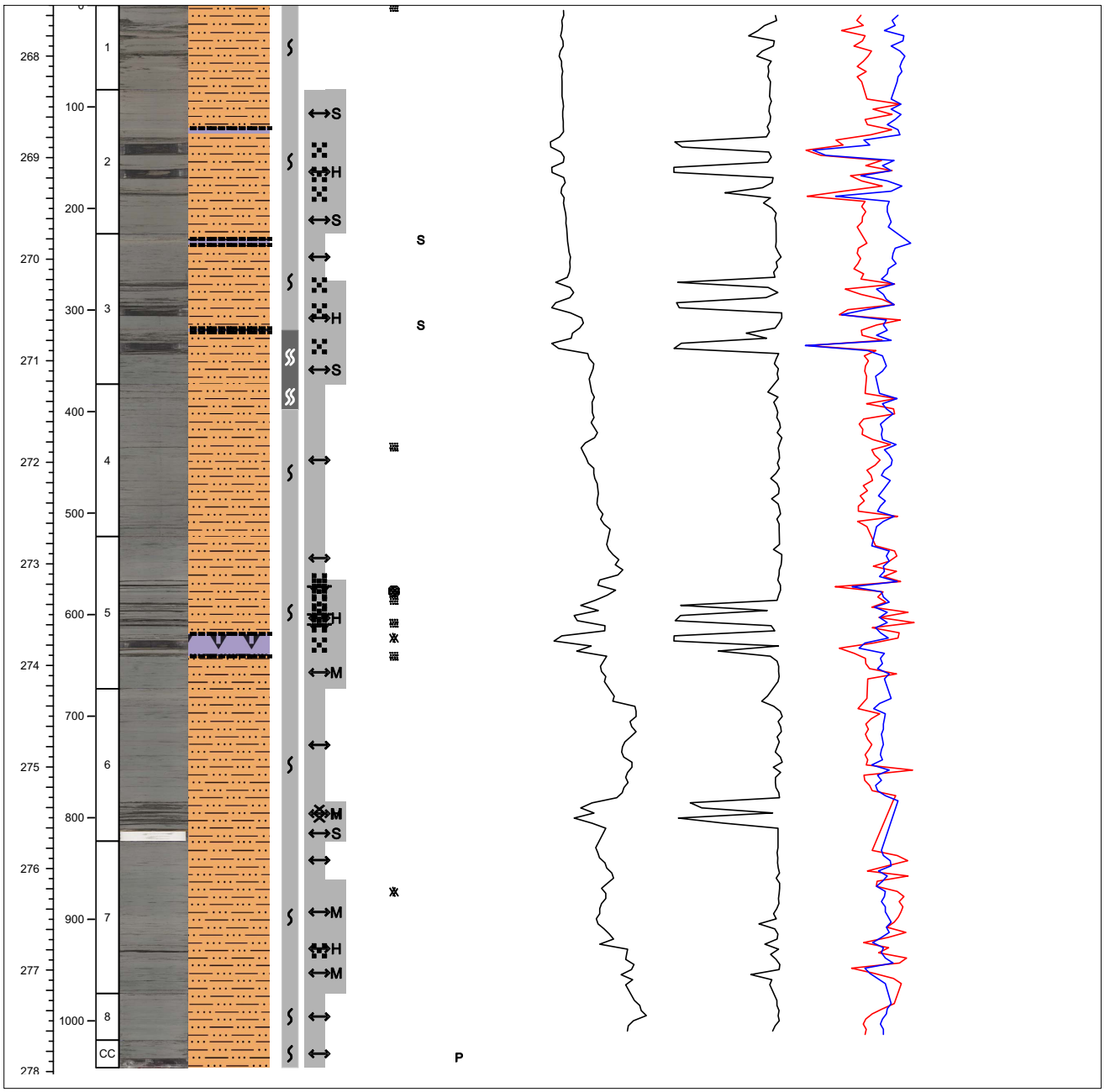
Major lithology:diatom-rich clayey silt (very dark gray 3/N to dark greenish gray 10Y 4/1) from Section 1 to Section 3 (130cm); diatom clayey silt (very dark greenish gray 10Y 3/1). Authigenic carbonate-rich layer ocurred in section 1; Section 2; and Section 5. Sandy layer occurred in Section 2 (78-79cm). Bioturbation is slight.



Core Photo

Hole 323-U1344D Core 31H, Interval 267.5-277.96m (CSF-A)

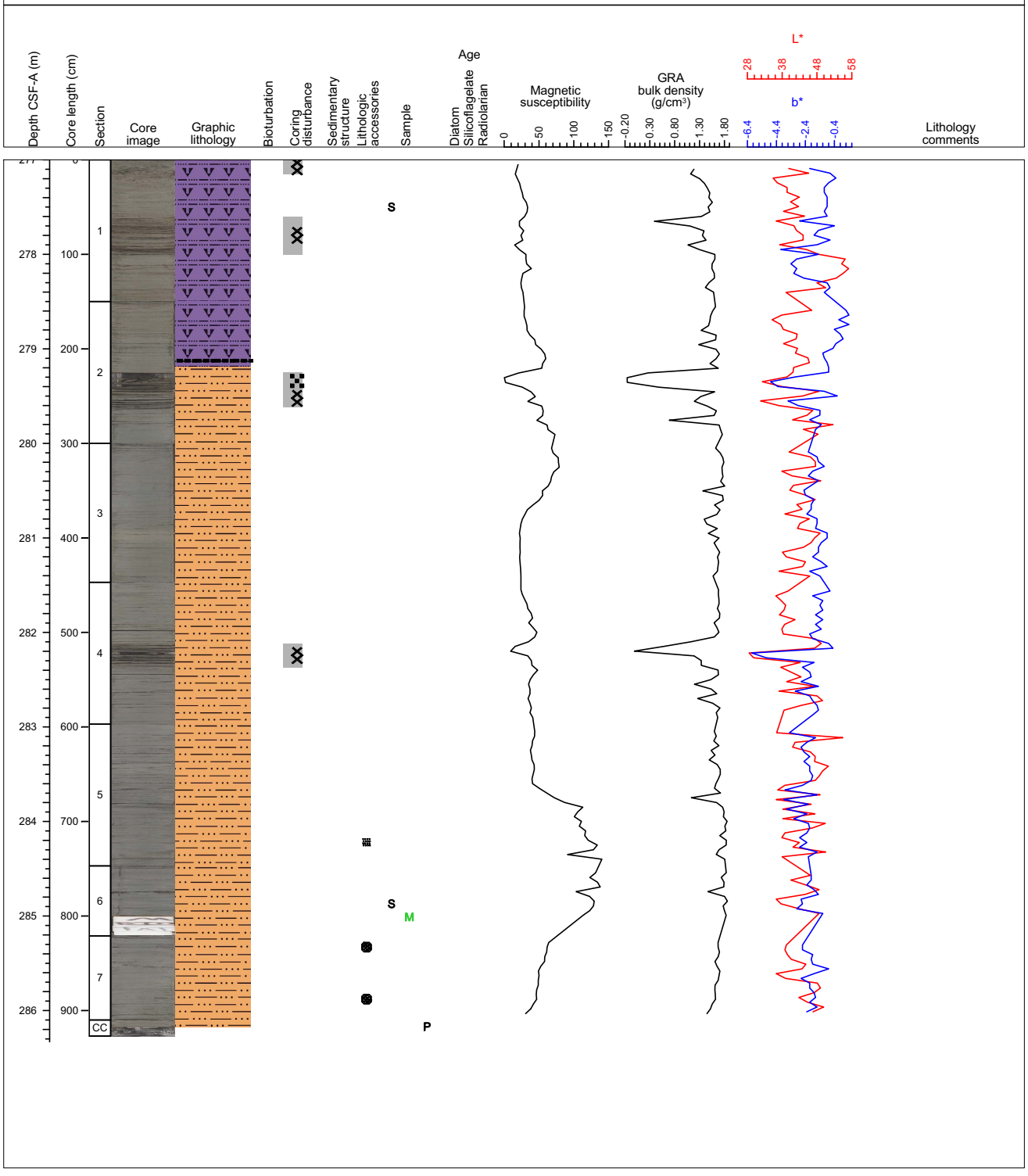
Major lithology: greenish black diatom-rich clayey silt. Secondary lithology: dark greenish gray authigenic carbonate-rich diatom clayey silt. Bioturbation is slight to moderate throughout with sand filled chondrites burrows occurring frequently. Pyrite smears and specks are also common. Drilling disturbance is often severe with large voids and cracks created by gas expansion.



Core Photo

Hole 323-U1344D Core 32H, Interval 277.0-286.27m (CSF-A)

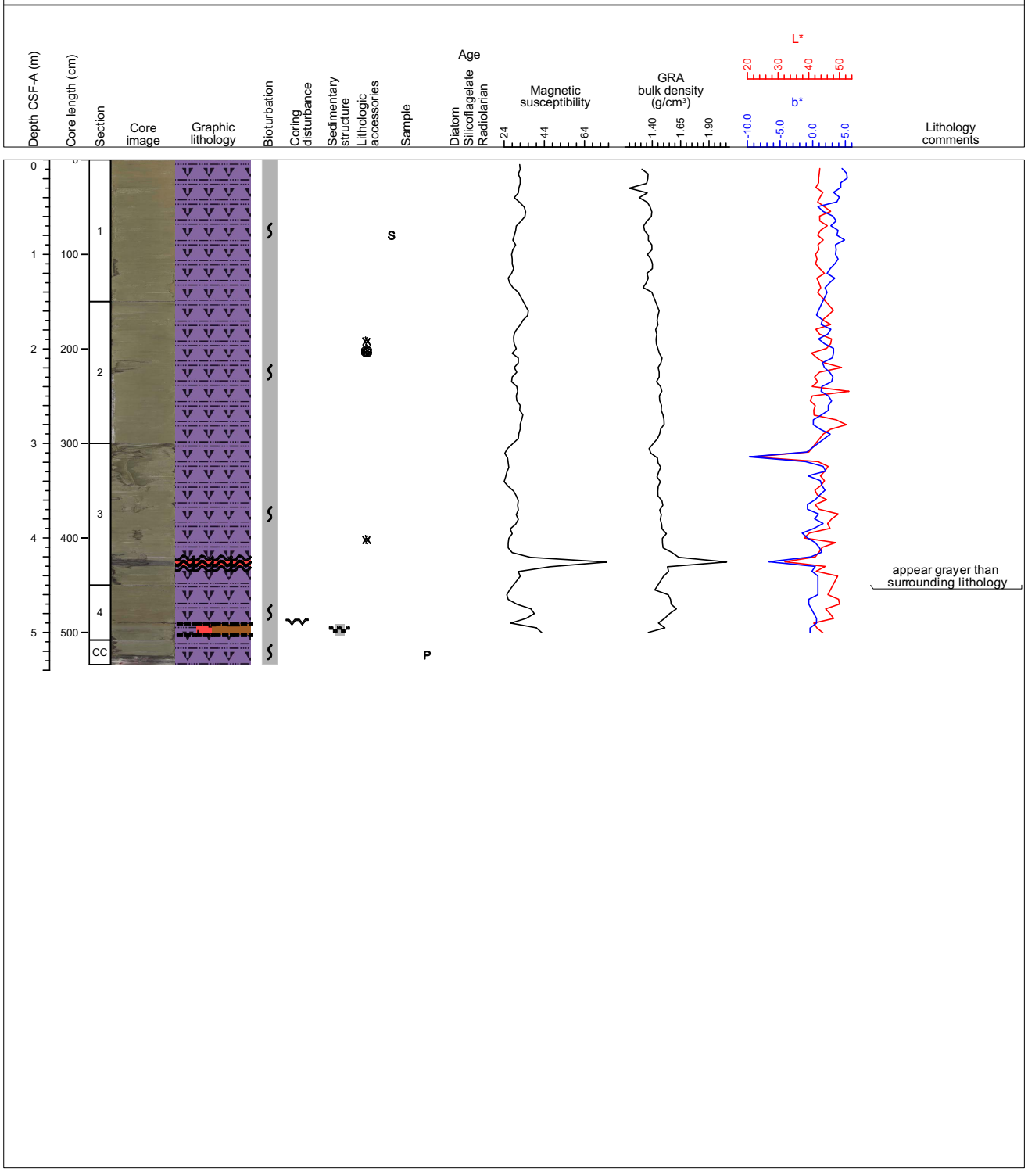
The main lithology is very dark gray diatom-bearing clayey silt. The secondary lithology, very dark greenish gray diatomclay silt occurs only in section 1 and top of section 2. Sand mottles and layers are concentrated in sections 5 to 7 although slight black mottles occur throughout the core. Two small pebbles were found in section 7.



Core Photo

Hole 323-U1344E Core 1H, Interval 0.0-5.34m (CSF-A)

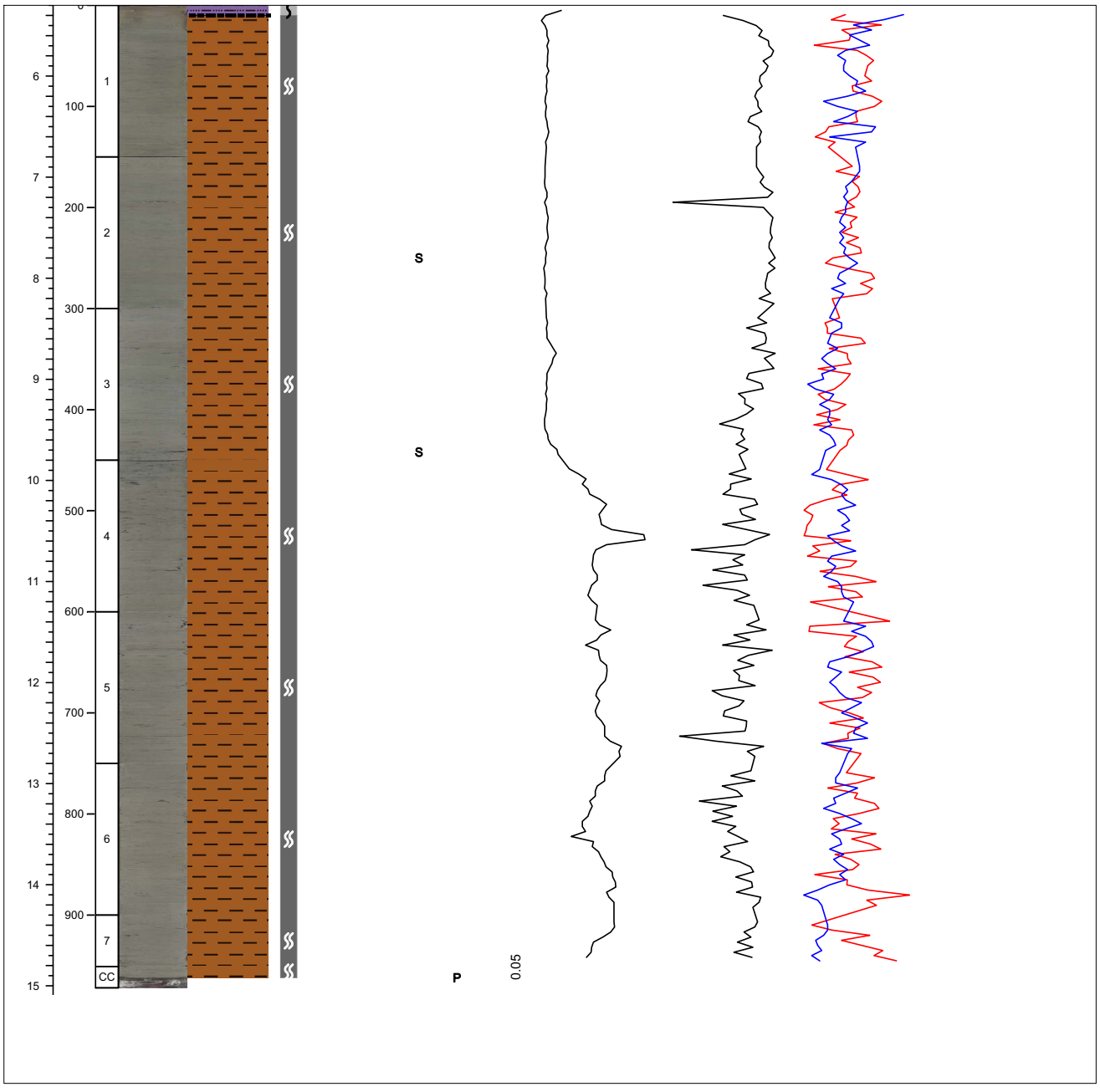
Major lithology: olive diatom silty clay. Secondary lithology: dark greenish gray diatom-bearing clay present only in faintly laminated interval. A 6 cm thick ash layer is present in section 3 with sharp, undulating and tipped lower and upper boundaries. Bioturbation is faint and slight throughout the core with faint mottles occasionally. Distubance is severe especially in section 3 where a shatterd core liner was dragged through the core during splitting.



Core Photo

Hole 323-U1344E Core 2H, Interval 5.3-15.02m (CSF-A)

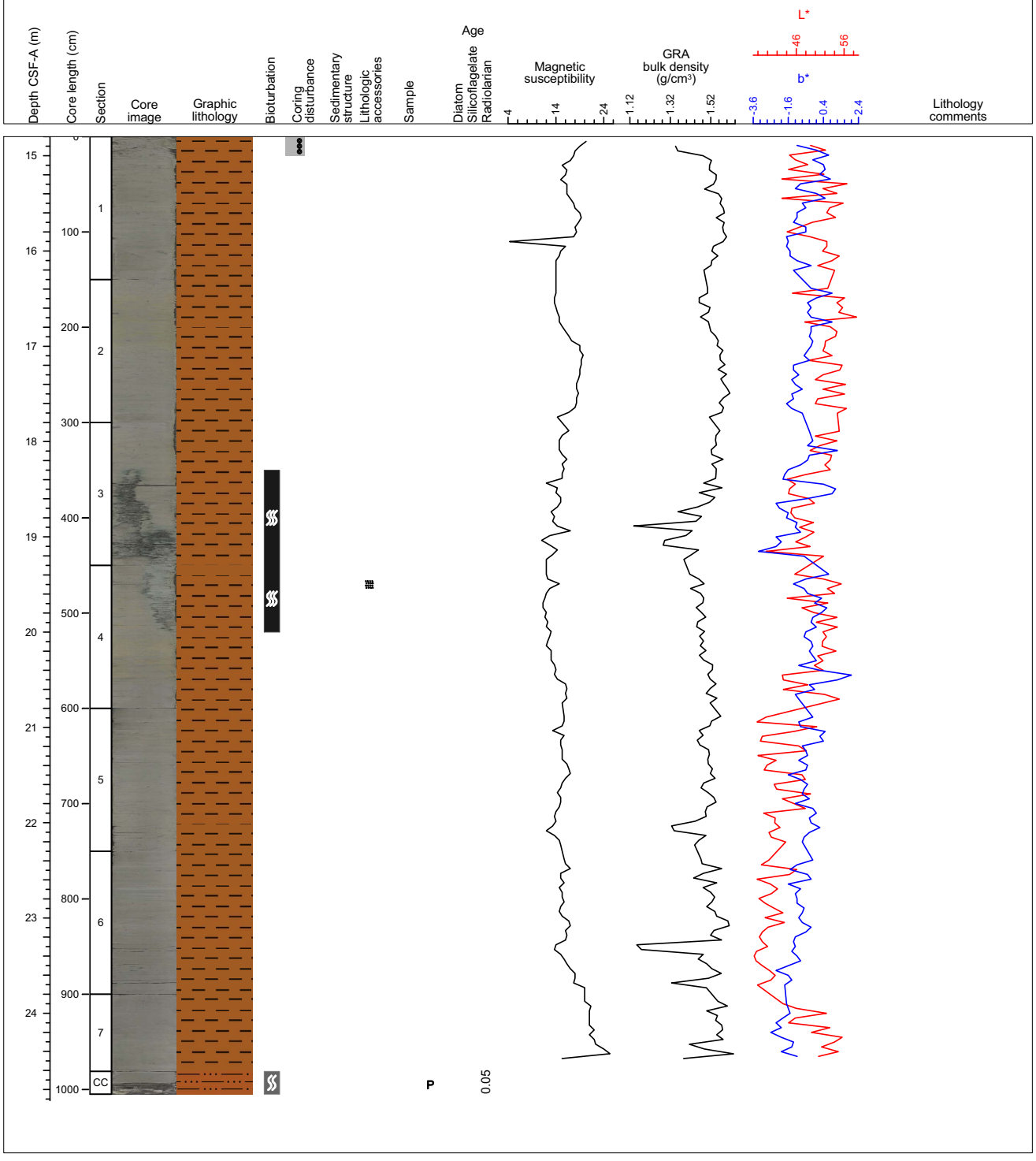
Major lithology: diatom-rich clay (dark greenish gray 5GY 4/1). In upper part of the core (Section 1) sandy patches scattered; while lower than Section 3 pyrite patches scattered. Bioturbation is moderate.



Core Photo

Hole 323-U1344E Core 3H, Interval 14.8-24.85m (CSF-A)

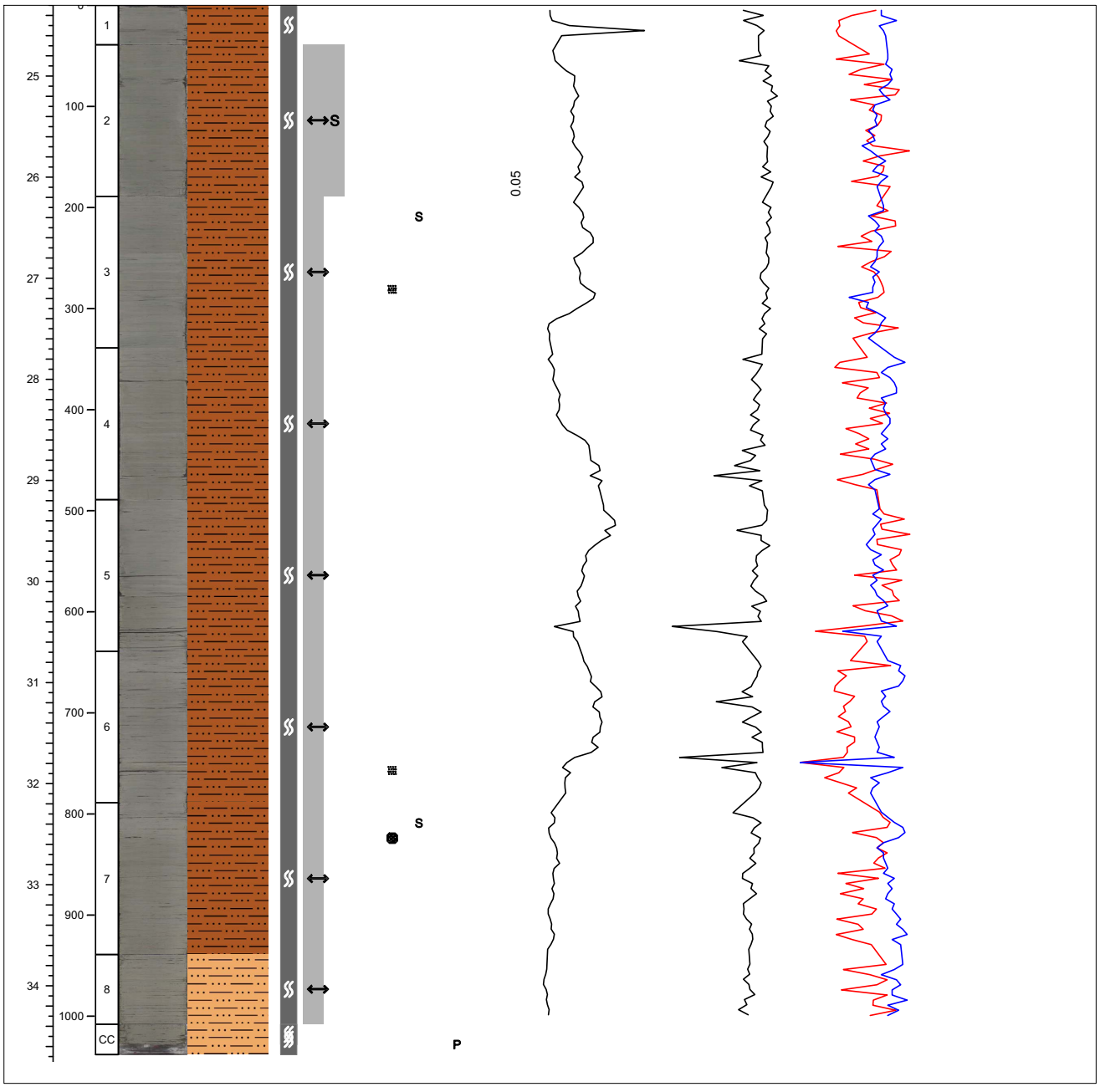
Major lithology homogeneous diatom-rich clay (dark greenish gray 5GY 4/1). Big green skolithos occurred In Section 3 to Section 4. Sandy layer occurrred in Section 4 (20-21cm). Bioturbation is slight.



Core Photo

Hole 323-U1344E Core 4H, Interval 24.3-34.68m (CSF-A)

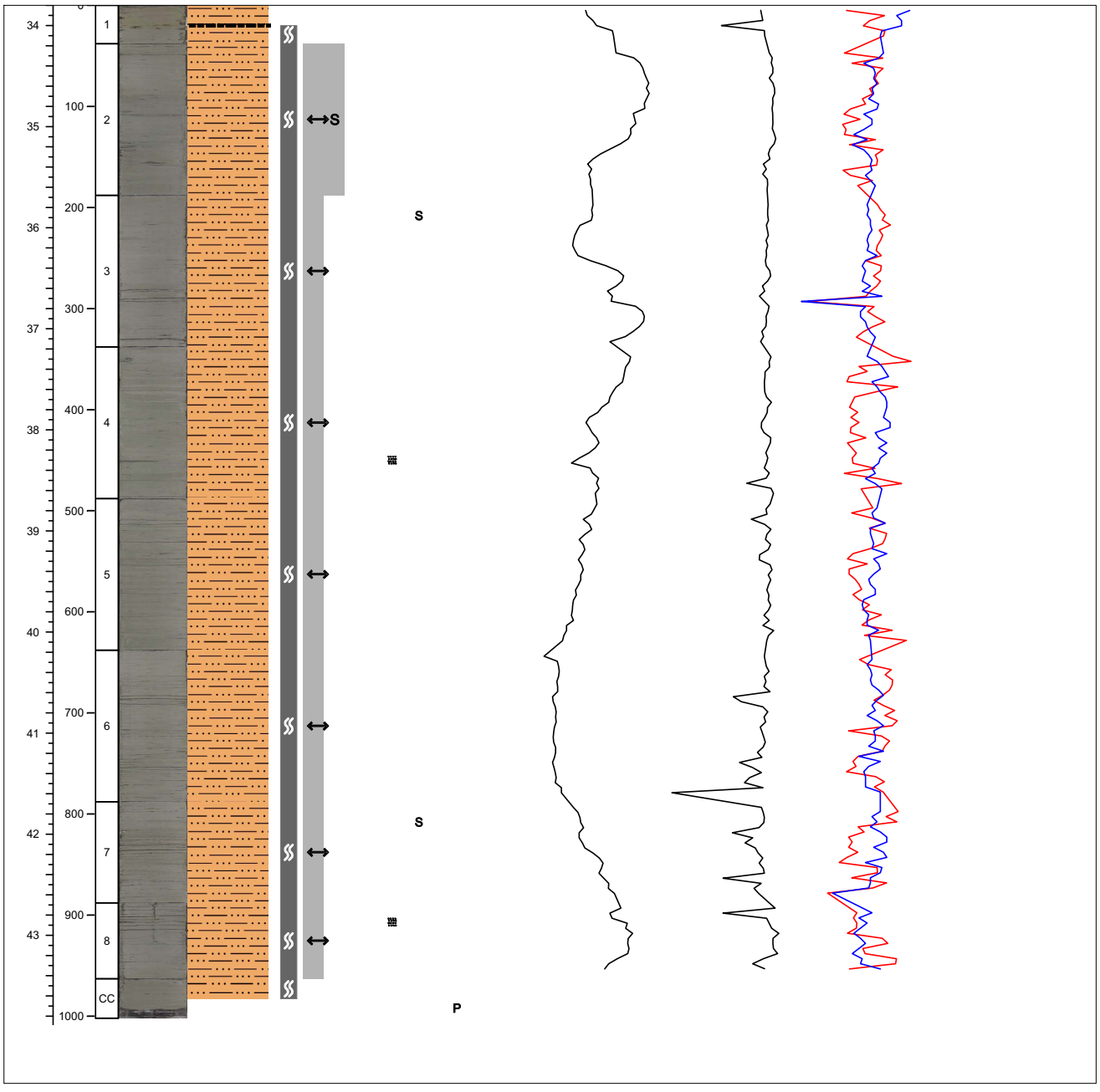
Major lithologies: Soft, dark gray to dark greenish gray diatom-bearing silty clay and diatom-rich clayey silt; sparse pyrite and sandy mottles throughout most of the core; sandy layers in sections 3 and 6; moderate bioturbation; slight gas expansion, section 1 heavily disturbed



Core Photo

Hole 323-U1344E Core 5H, Interval 33.8-43.82m (CSF-A)

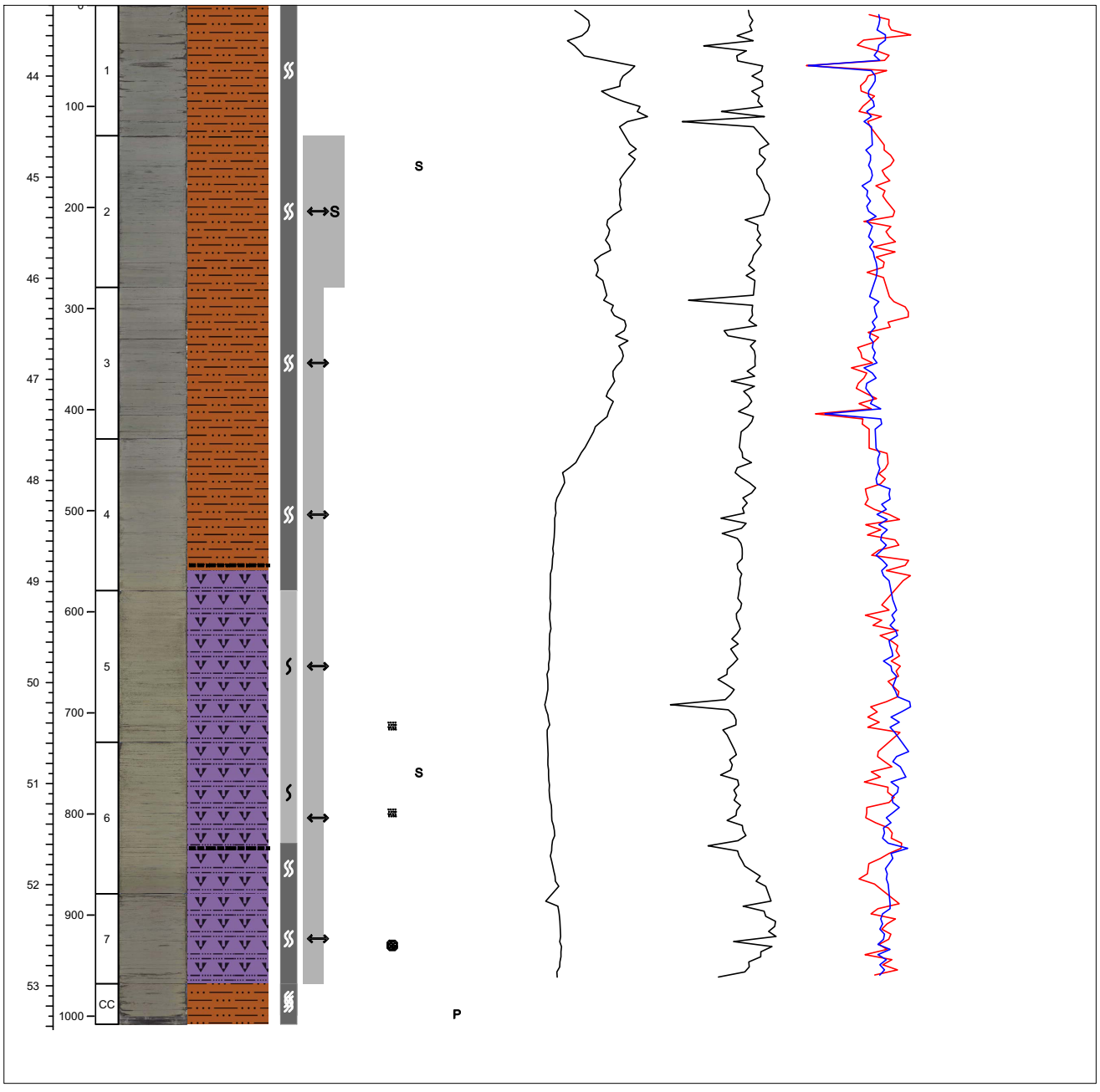
Major lithologies: Soft, dark gray diatom-rich clayey silt; large bluish burrows in section 3; sandy patches in sections 4 to 6; sandy layers in sections 4 and 8; moderate bioturbation; slight gas expansion, section 1 heavily disturbed



Core Photo

Hole 323-U1344E Core 6H, Interval 43.3-53.38m (CSF-A)

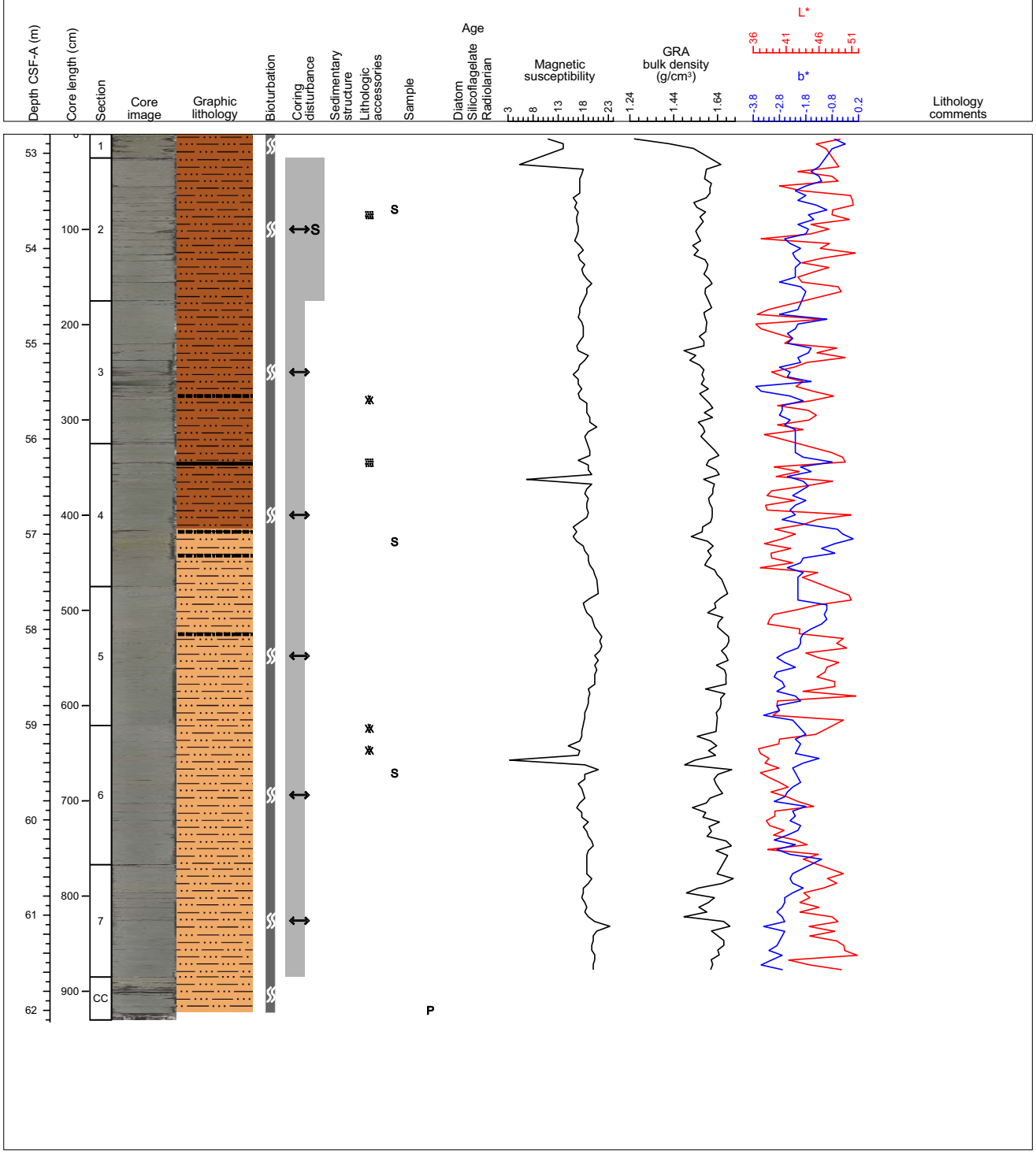
Major lithologies: Soft, dark gray (4/N) diatom-rich silty clay and dark greenish gray (10Y 4/1) diatom silty clay, gradational boundary across section 4 (5GY 4/1); pyrite mottles in sections 2 and 3; sandy mottles in sections 2, 3, 4, 6, 7 and CC; sandy layers in sections 5 and 6; slight to moderate bioturbation; slight gas expansion, section 1 heavily disturbed



Core Photo

Hole 323-U1344E Core 7H, Interval 52.8-62.1m (CSF-A)

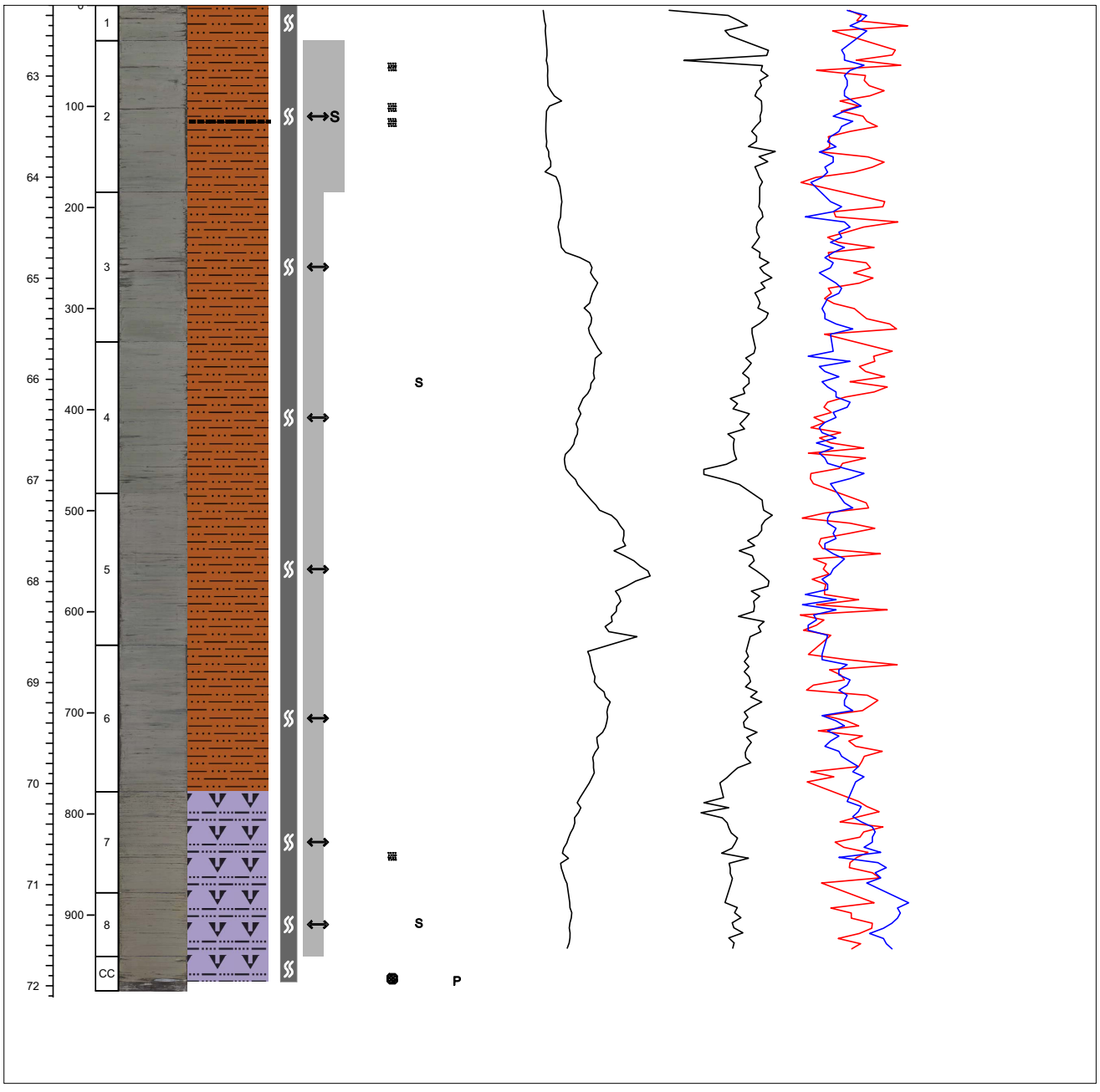
Major lithologies: Soft, dark gray to dark greenish gray diatom-bearing clayey silt, diatom-rich clayey silt and silty clay; gradational boundaries between different colours; sandy mottles in sections 2 and 5; sandy layers in sections 2 and 4; moderate bioturbation; slight gas expansion, section 1 heavily disturbed



Core Photo

Hole 323-U1344E Core 8H, Interval 62.3-72.05m (CSF-A)

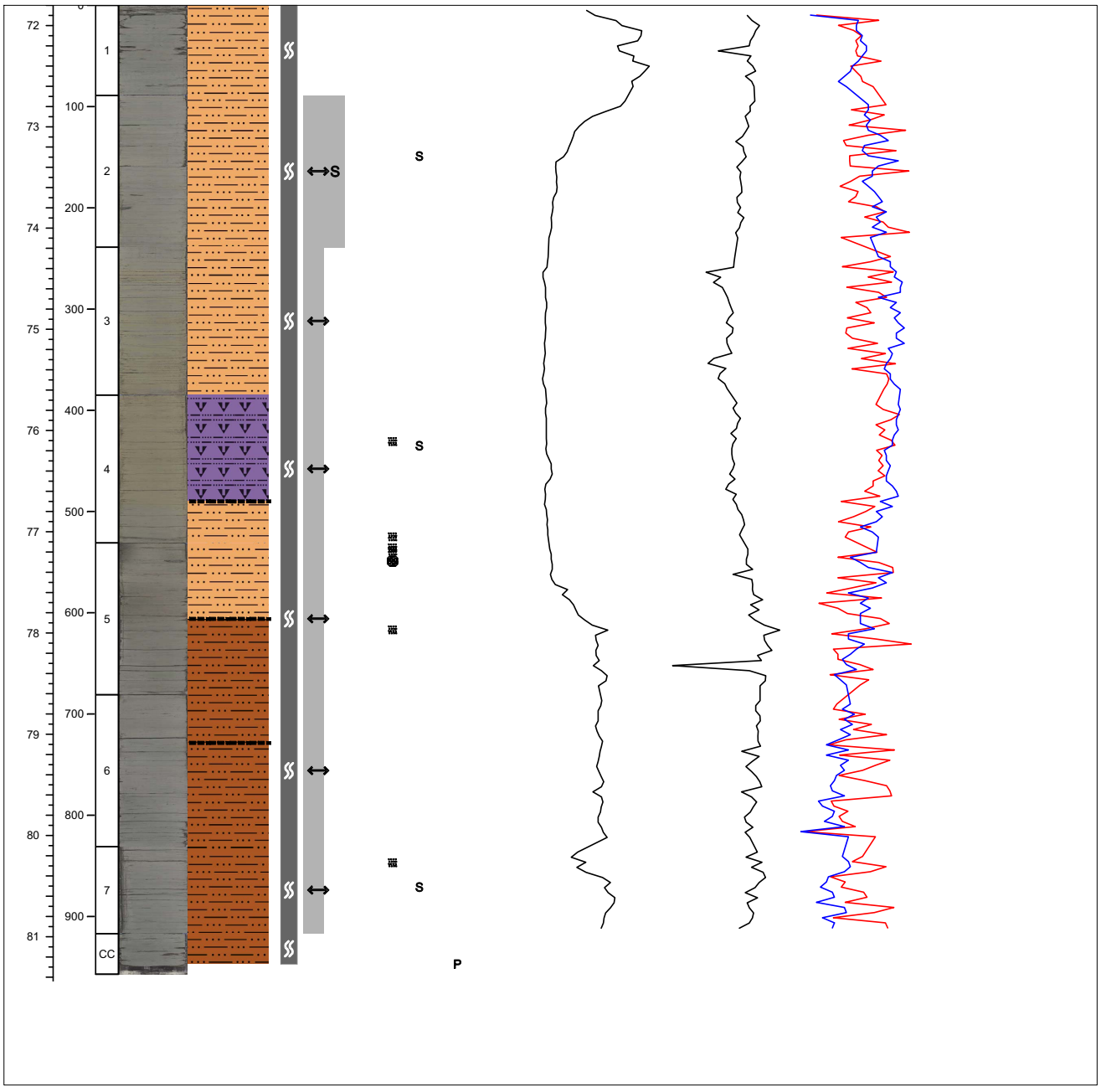
Major lithologies: Soft, dark gray to dark greenish gray diatom-rich silty clay and diatom clayey silt; gradational boundaries between different colours; bioturbated sandy layers in sections 2 and 7; sandy mottles in sections 2 and 6; pyrite mottles and specks in sections 3 to 6; coarse pebble at base of CC; moderate bioturbation; slight gas expansion, section heavily disturbed



Core Photo

Hole 323-U1344E Core 9H, Interval 71.8-81.37m (CSF-A)

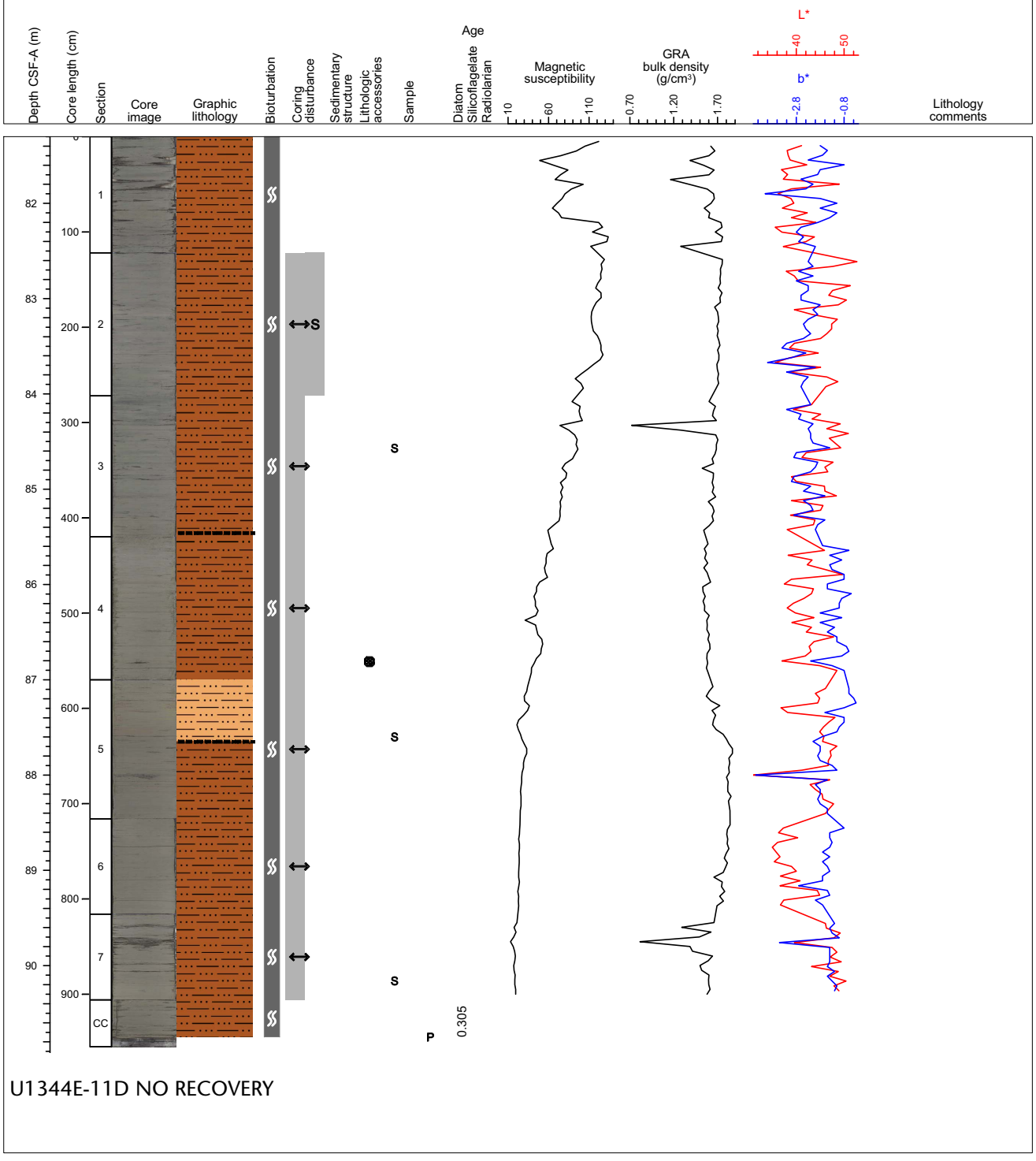
Major lithologies: Soft, very dark gray to dark gray to dark greenish gray diatom-bearing silty clay, diatom-rich clayey silt and diatom silty clay; gradational boundaries between different colours; sandy layers in sections 4, 5 and 7; sandy mottles in sections 1, 4 and 5; pyrite mottles in section 7; moderate bioturbtion; slight gas expansion, section 1 heavily disturbed



Core Photo

Hole 323-U1344E Core 10H, Interval 81.3-90.85m (CSF-A)

Major lithologies: Soft, dark gray to dark greenish gray diatom-rich silty clay and diatom-bearing clayey silt; gradational boundaries between different colours; sandy mottles occur throughout most of the core; sandy layers and large patches in sections 4 and 5; pyrite mottles in sections 1 to 3; moderate bioturbation; slight gas expansion, section 1 heavily disturbed

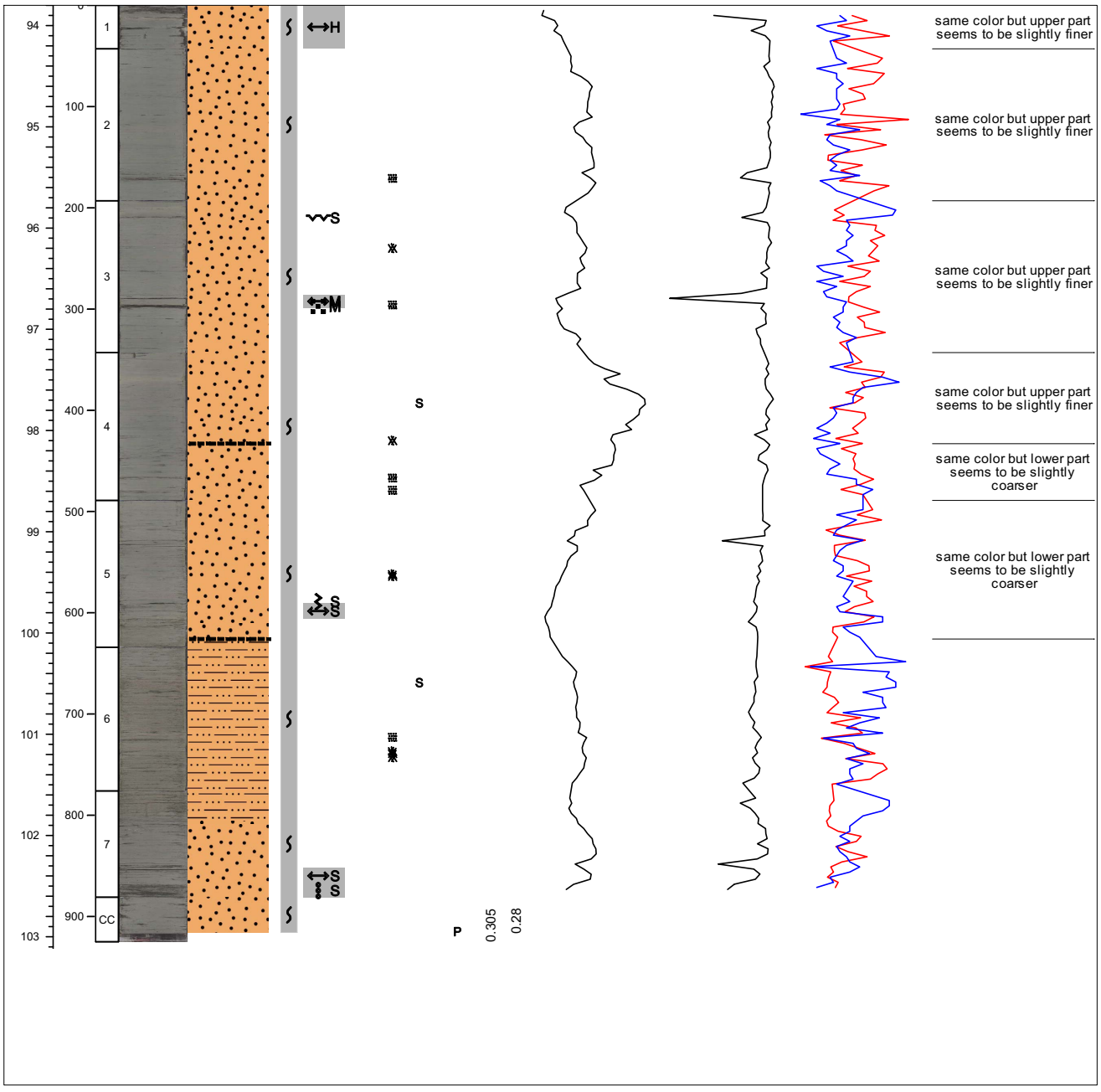


U1344E-11D NO RECOVERY

Core Photo

Hole 323-U1344E Core 12H, Interval 93.8-103.05m (CSF-A)

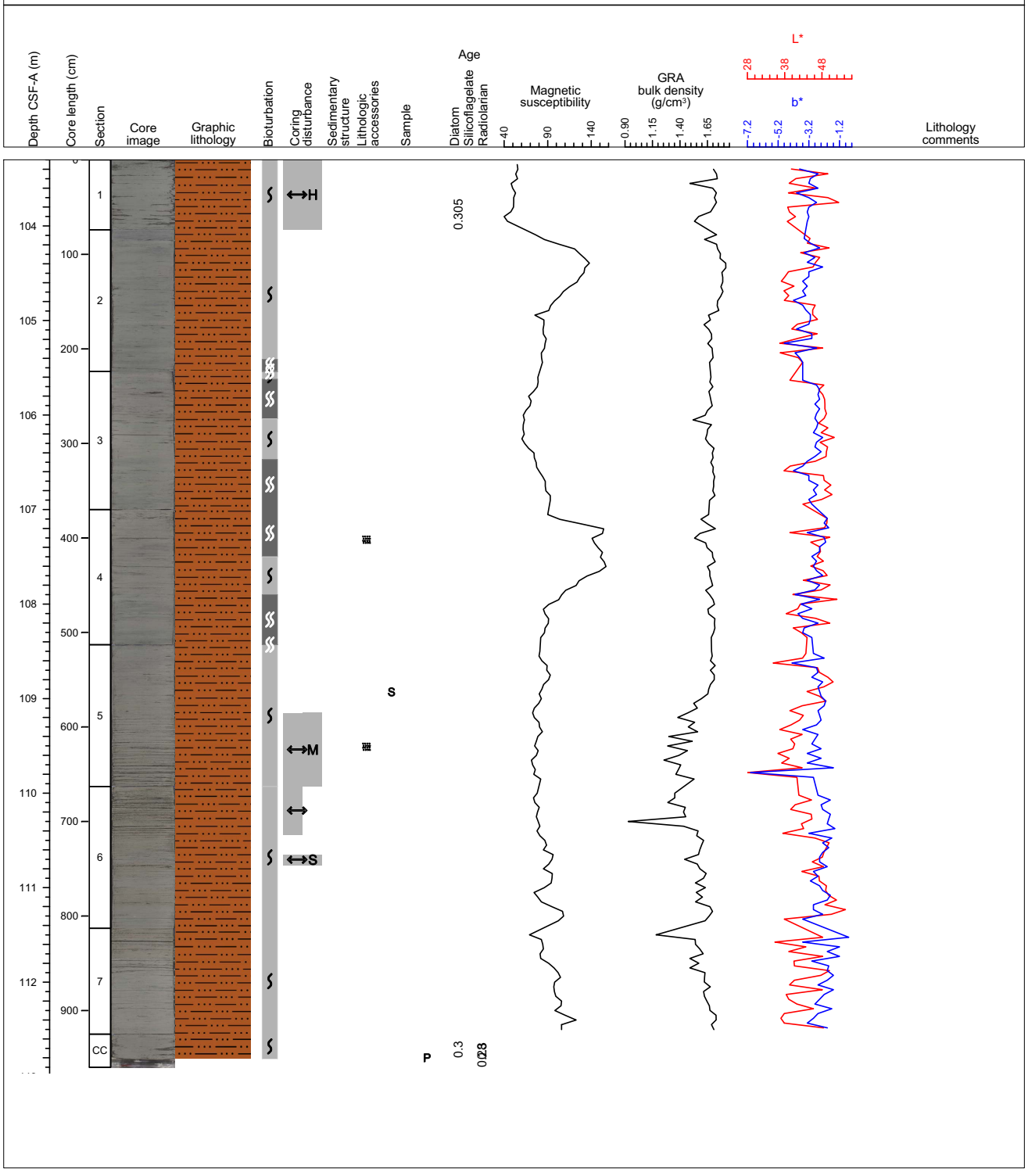
Main lithology: dark gray soft diatom-bearing silt and diatom-rich clayey silt. Slight to moderate drilling disturbance throughout the core except for Sec. 1 where high/severe drilling disturbance is confirmed.



Core Photo

Hole 323-U1344E Core 13H, Interval 103.3-112.9m (CSF-A)

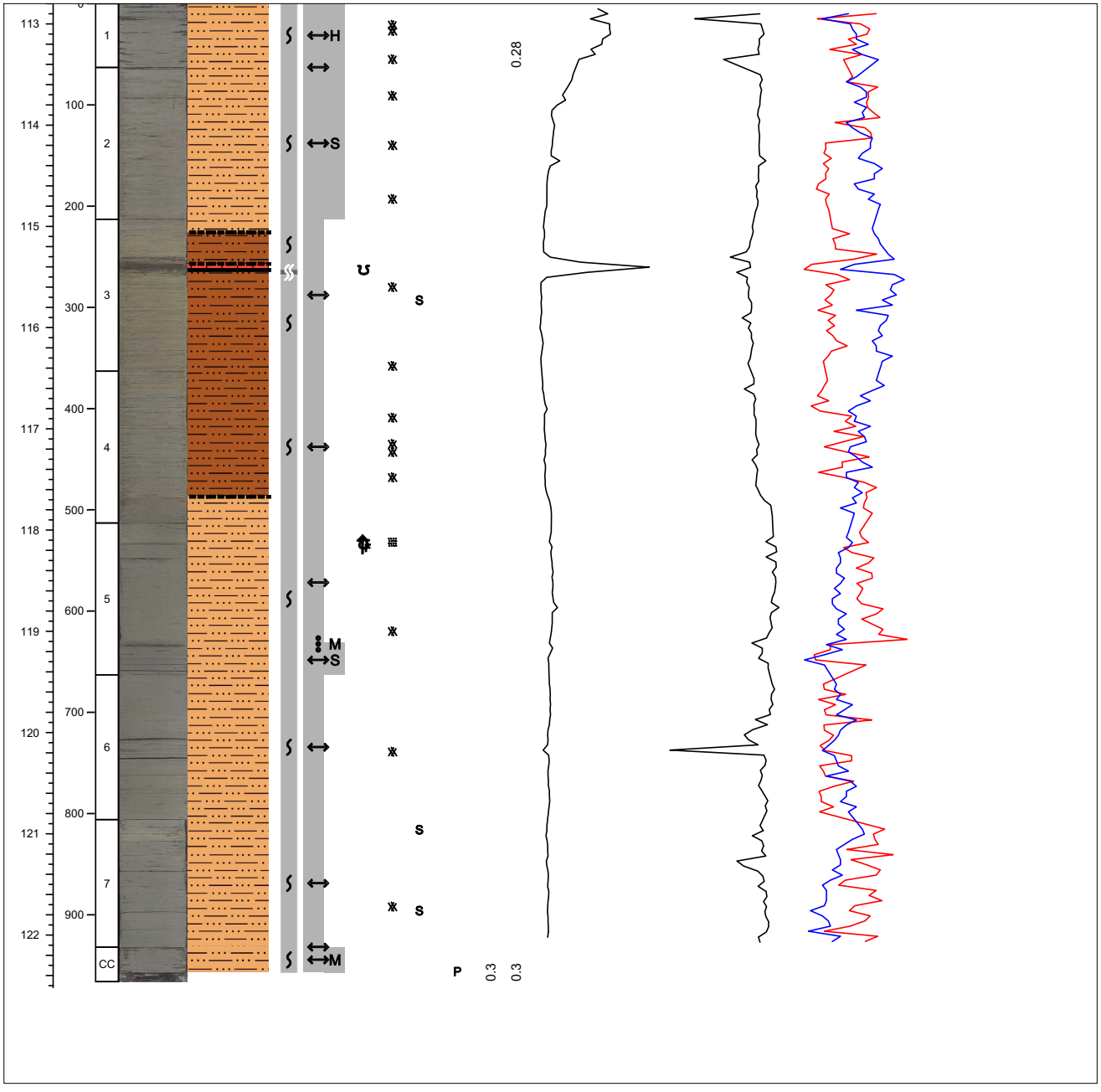
Main lithology: soft dark gray diatom-rich silty clay. There is only one lithology in this core. Black pyrite specks (or mottles) are present thoroughout the core. Intensity of those varies and bioturbated moderately at Sec. 2-4. and slightly at the rest of the core. Sandy layer or patch occurrs at Sec. 4 and 5.



Core Photo

Hole 323-U1344E Core 14H, Interval 112.8-122.46m (CSF-A)

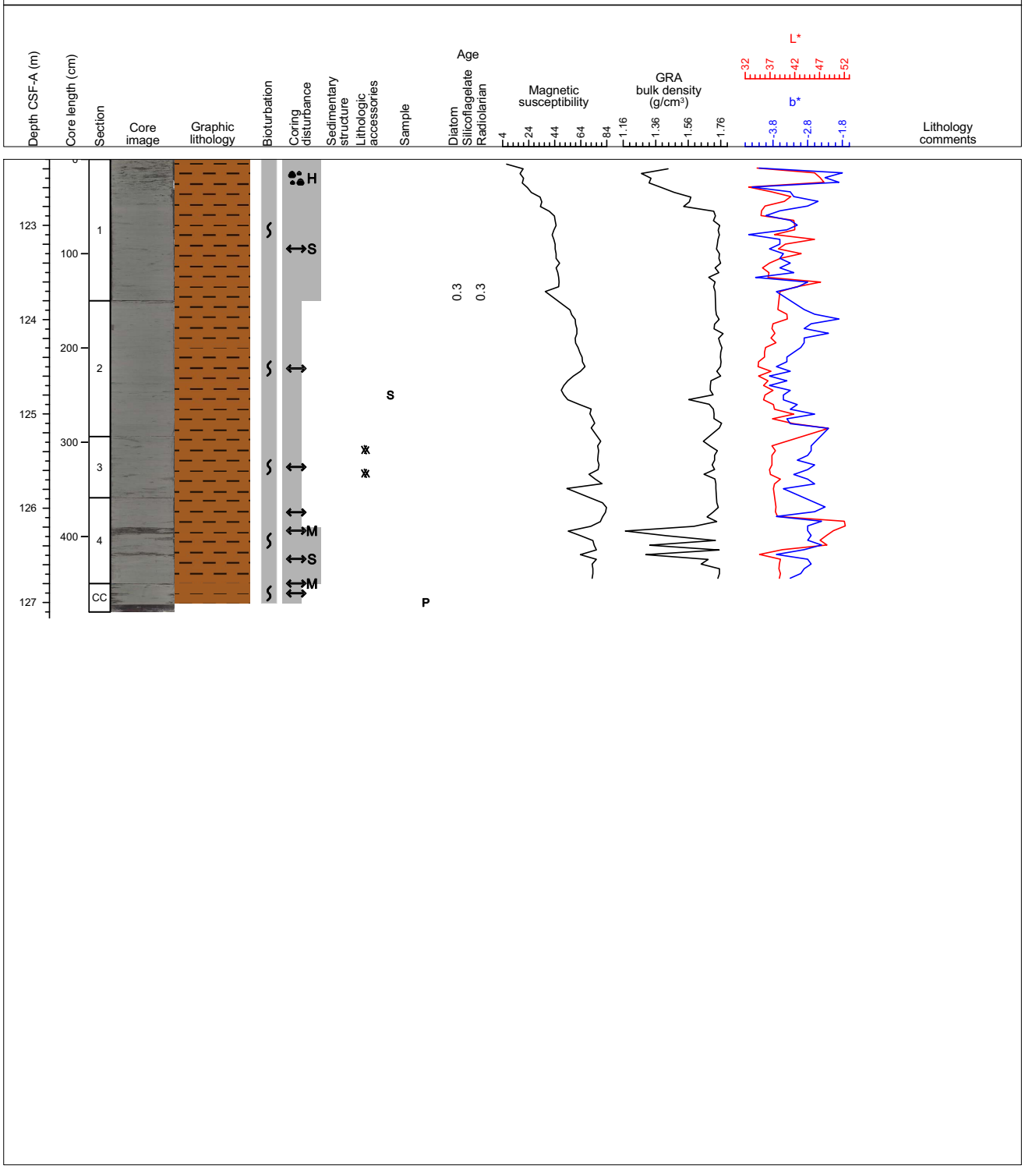
The main lithologies are very dark greenish grey diatom-rich clayey silt and dark greenish grey diatom-rich silty clay. There is a very dark brown ash layer in section 3 and authigenic carbonate mottling in section 7. There are sandy mottles and sponge spicules throughout the core. Bioturbation varies from slight to moderate. Drilling disturbance is minor except in the core catcher and section 1.



Core Photo

Hole 323-U1344E Core 15H, Interval 122.3-127.1m (CSF-A)

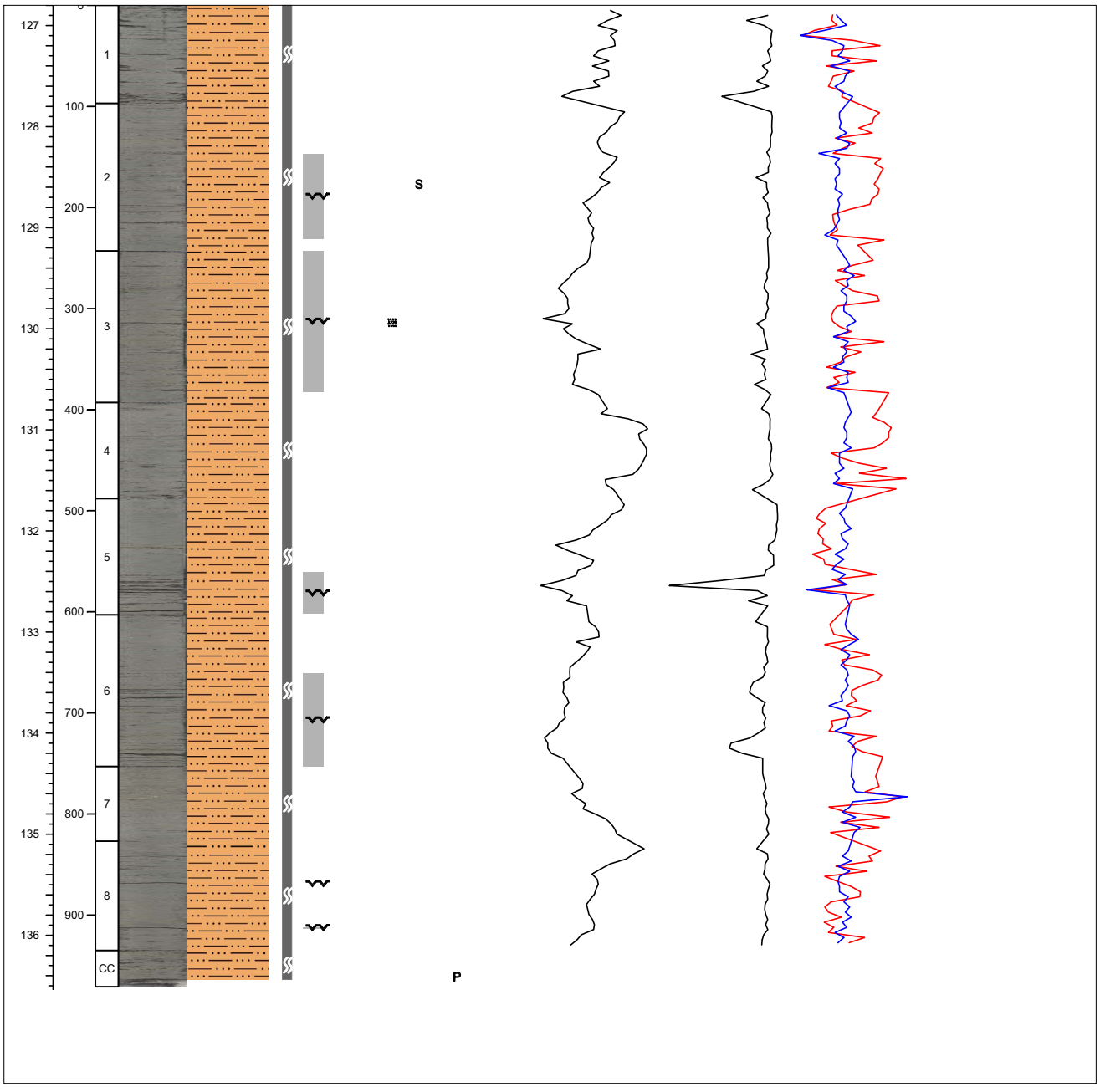
The main lithology is greenish black diatom-rich clay. There are black streaky mottles, sandy patches and occasional sponge spicule aggregates through the core. Bioturbation is slight and drilling disturbance is slight except in section 1 and the core catcher.



Core Photo

Hole 323-U1344E Core 16H, Interval 126.8-136.51m (CSF-A)

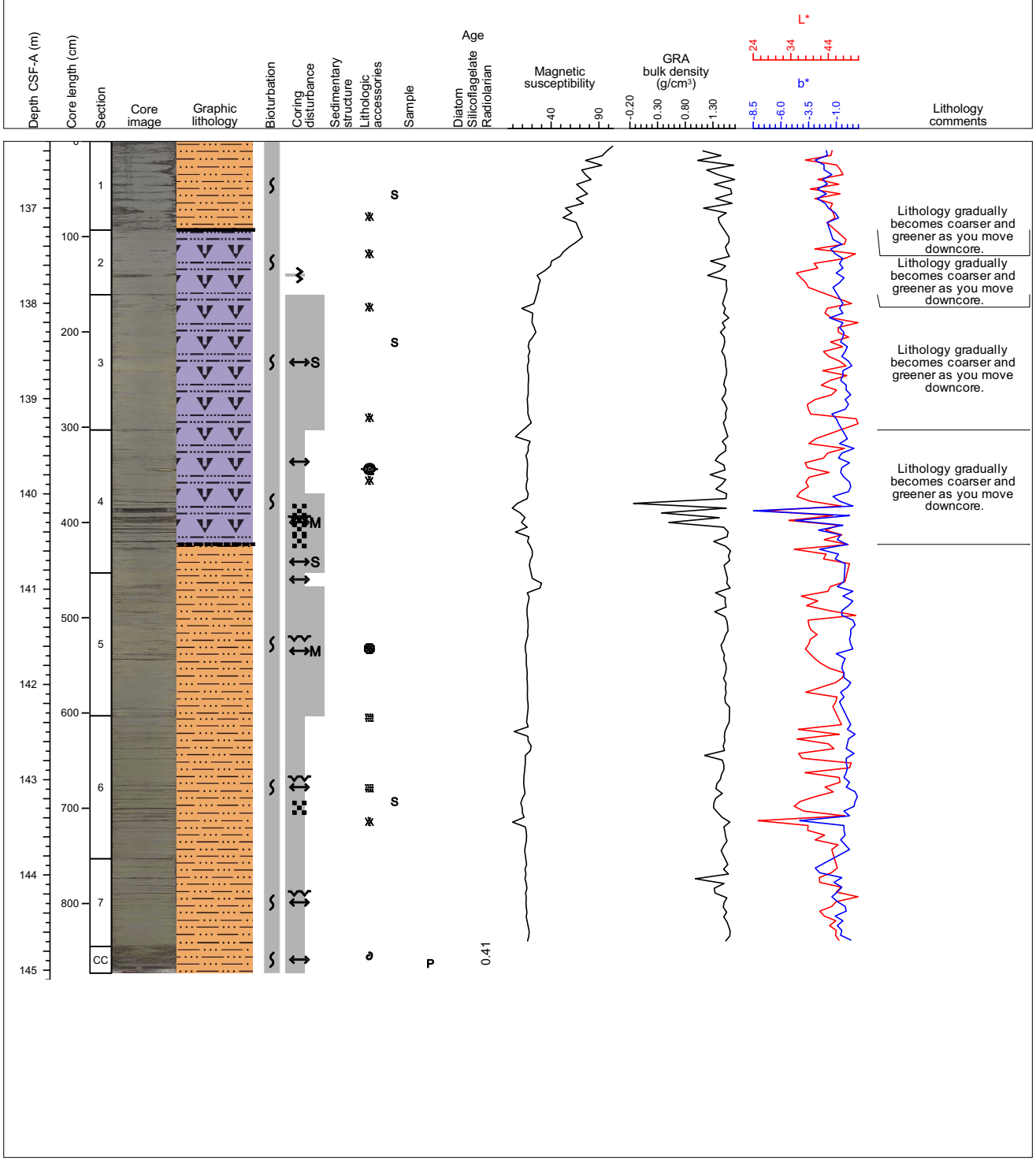
Major lithology is diatom-rich clayey silt (dark greenish gray 10Y 4/1). Sandy layer occurred in Section 3 (71-73cm). Some sandy paches scattered through the core. Bioturbation is moderate.



Core Photo

Hole 323-U1344E Core 17H, Interval 136.3-145.03m (CSF-A)

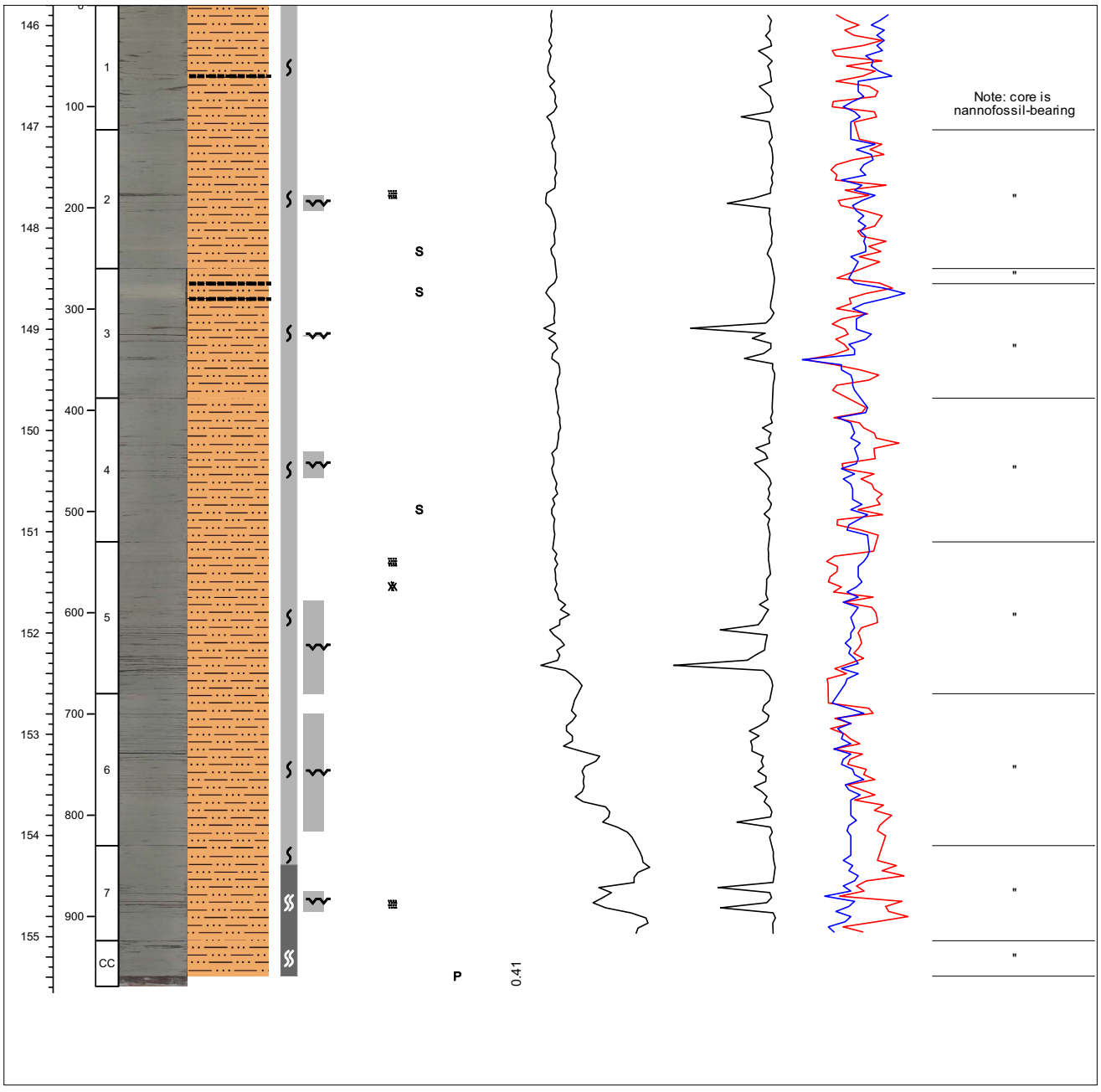
Major lithologies: very dark gray diatom-bearing clayey silt; very dark greenish gray diatom clayey silt and dark olive gray diatom-rich clayey silt. The core gradually becomes coarser and greener as you move downcore. Note that the most diatom-enriched lithology is not the greenest in this case. One large authigenic carbonate nodule that appears to be a cast of a burrow lined with fecal pellets is found in section 4. Several sand layers and sandy chondrites occur throughout. Bioturbation is slight throughout. Drilling disturbance ranges from slight to severe and cracks and voids are present due to gas expansion.



Core Photo

Hole 323-U1344E Core 18H, Interval 145.8-155.49m (CSF-A)

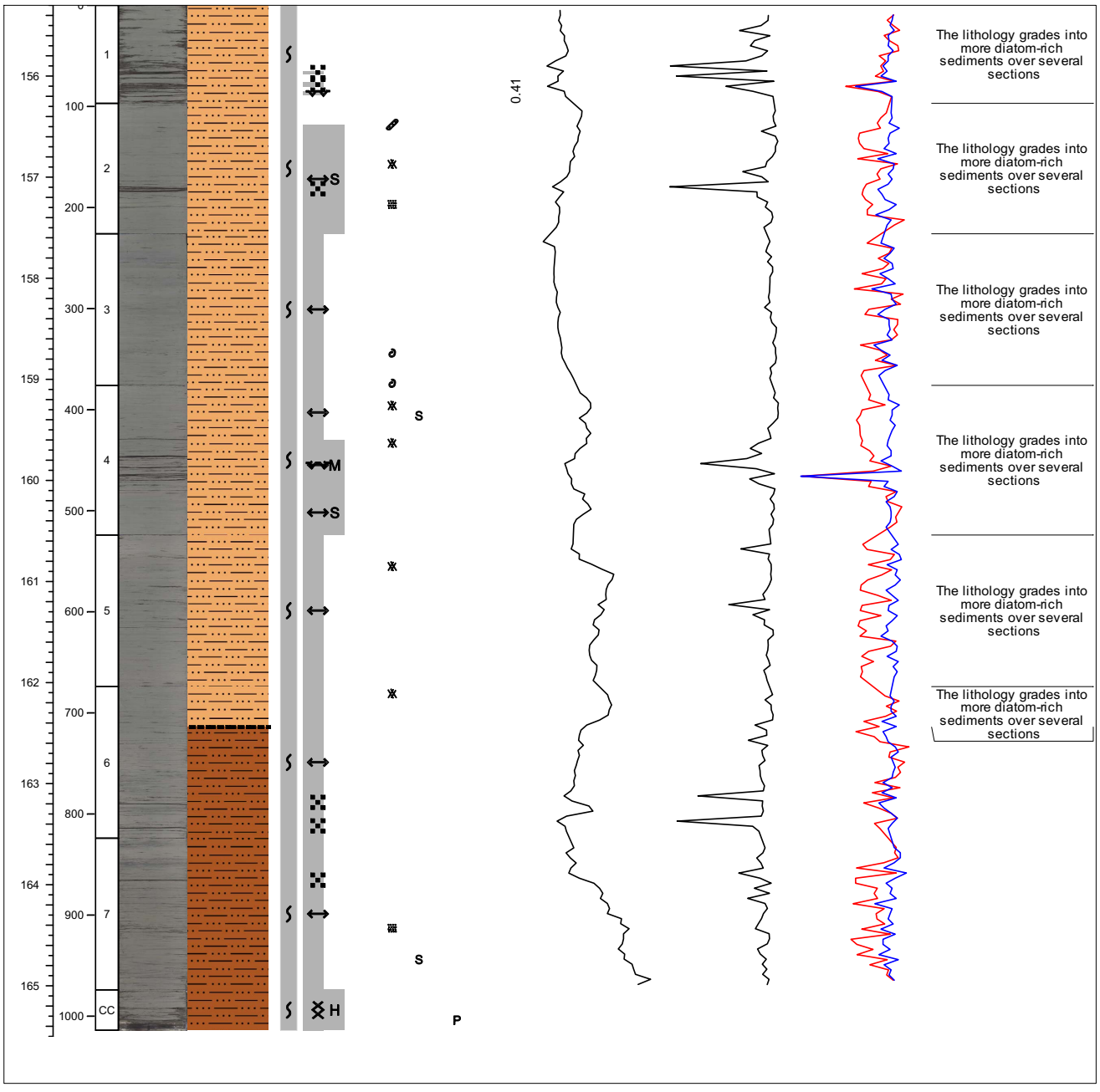
Major lithology: authigenic carbonate-bearing nannofossil-bearing diatom-bearing clayey silt (dark greenish gray 10Y 4/1). 3 sandy layer (<3mm) occurred in Section 5 (20cm) and Section 7 (58cm; 60cm). Authigenic carbonate-rich layer occurred Section 3 (58-60cm). Authigenic carbonate may occur throughhe core.



Core Photo

Hole 323-U1344E Core 19H, Interval 155.3-165.44m (CSF-A)

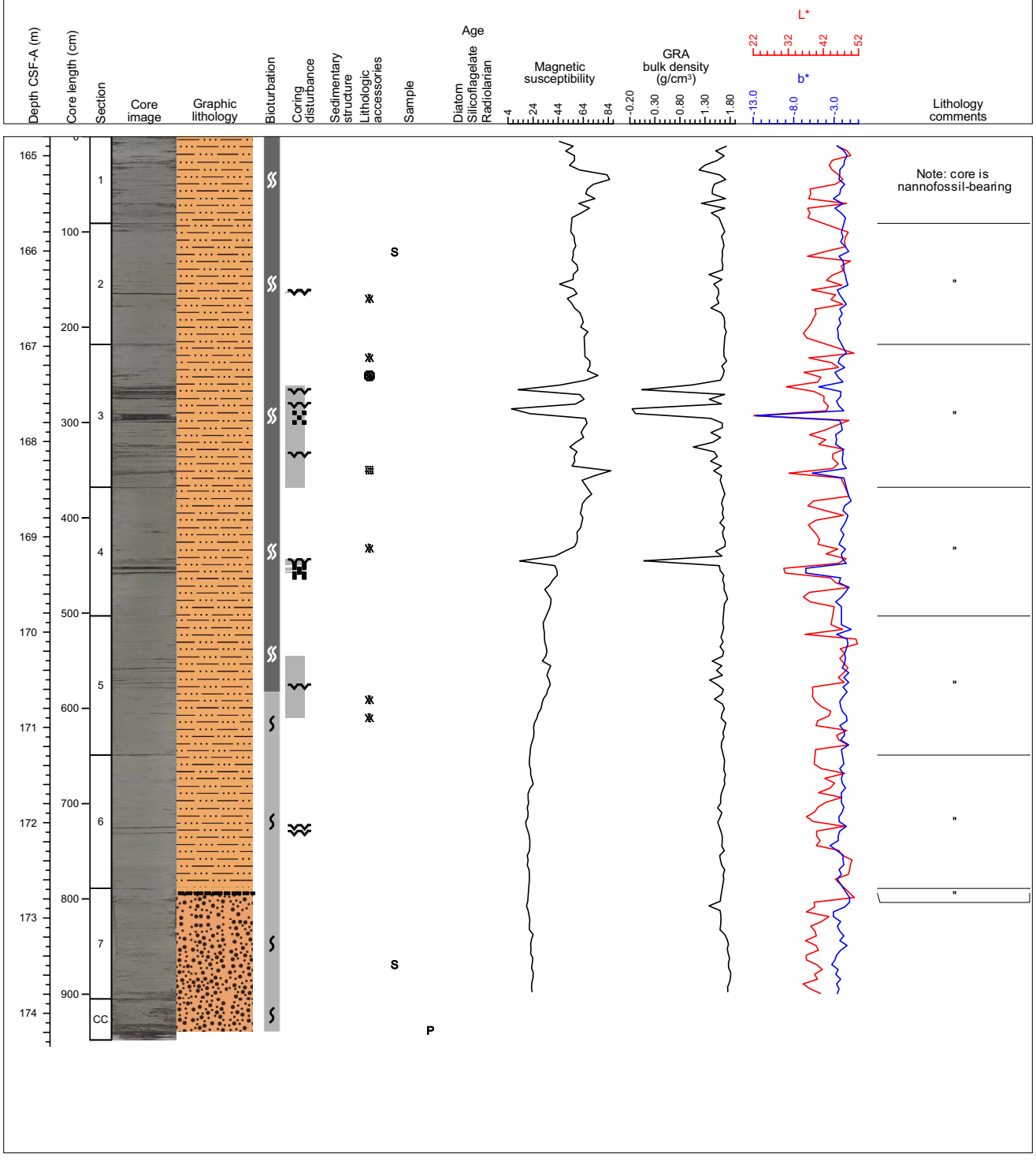
Major lithologies: very dark gray clayey silt grades into very dark greenish gray diatom-rich silty clay over the course of several sections. Two valves of a pelyepod are found lying ventral side facing up with the hinge touching, but not attached at the bottom of section 3. More pieces of this shell are found in the working half. Bioturbation is slight throughout the core with sand mottles and sand filled chondrites found. Several sandy layers are also present. Drilling disturbance is slight to moderate with gas expansion causing cracks and voids in sections 2, 4, and 7. Section 1 was extruded onto the rig floor.



Core Photo

Hole 323-U1344E Core 20H, Interval 164.8-174.28m (CSF-A)

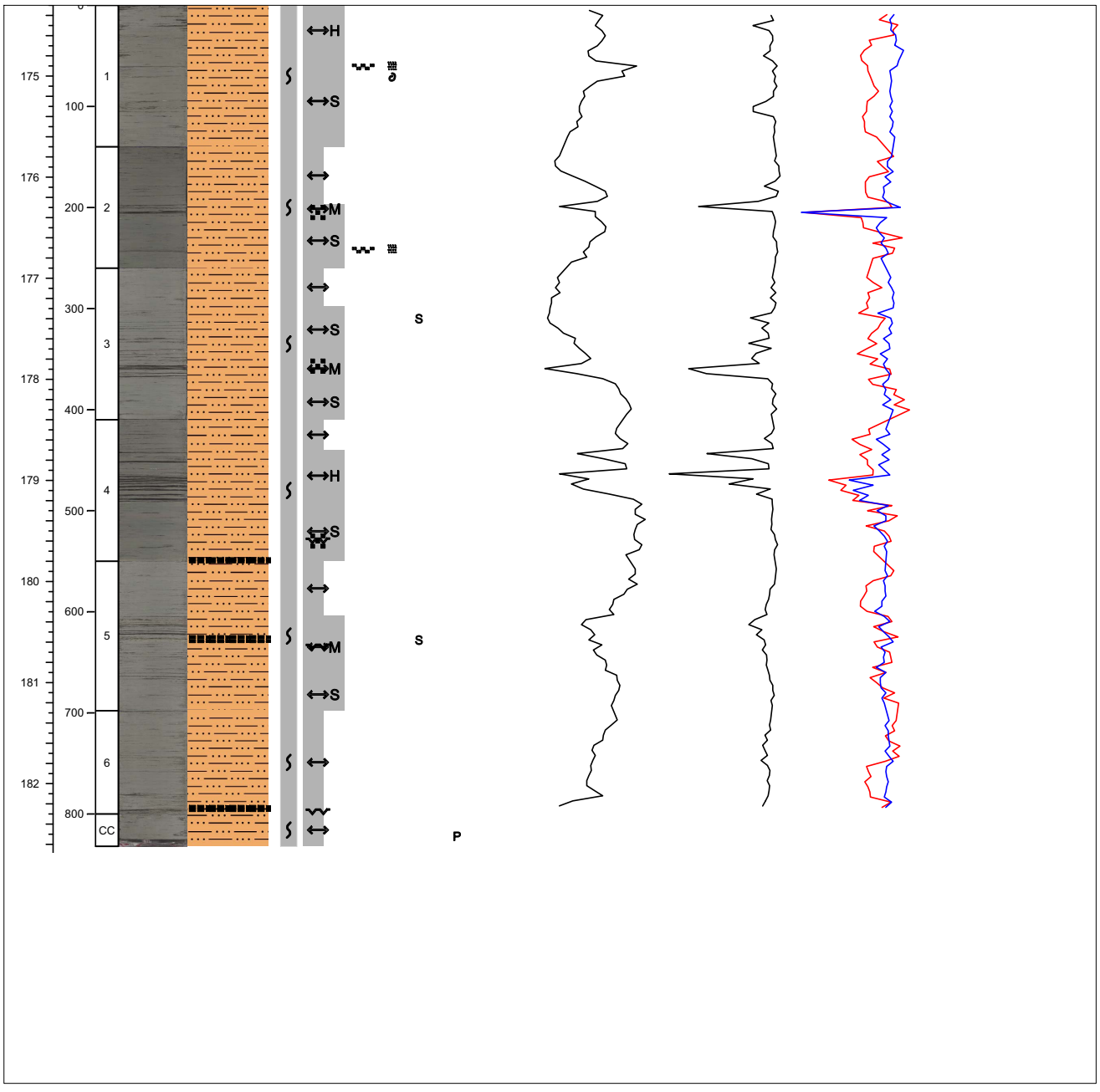
Major lithology: nannofossil-bearing diatom-rich clayey silt (dark greenish gray 10Y 4/1) from Section 1 to Section 6; diatom-rich sandy silt (very dark greenish gray 10Y 3/1) from Section 6 to CC. Thick sandy layer (2-3cm) occurred in Section 3 (132-136cm).



Core Photo

Hole 323-U1344E Core 21H, Interval 174.3-182.62m (CSF-A)

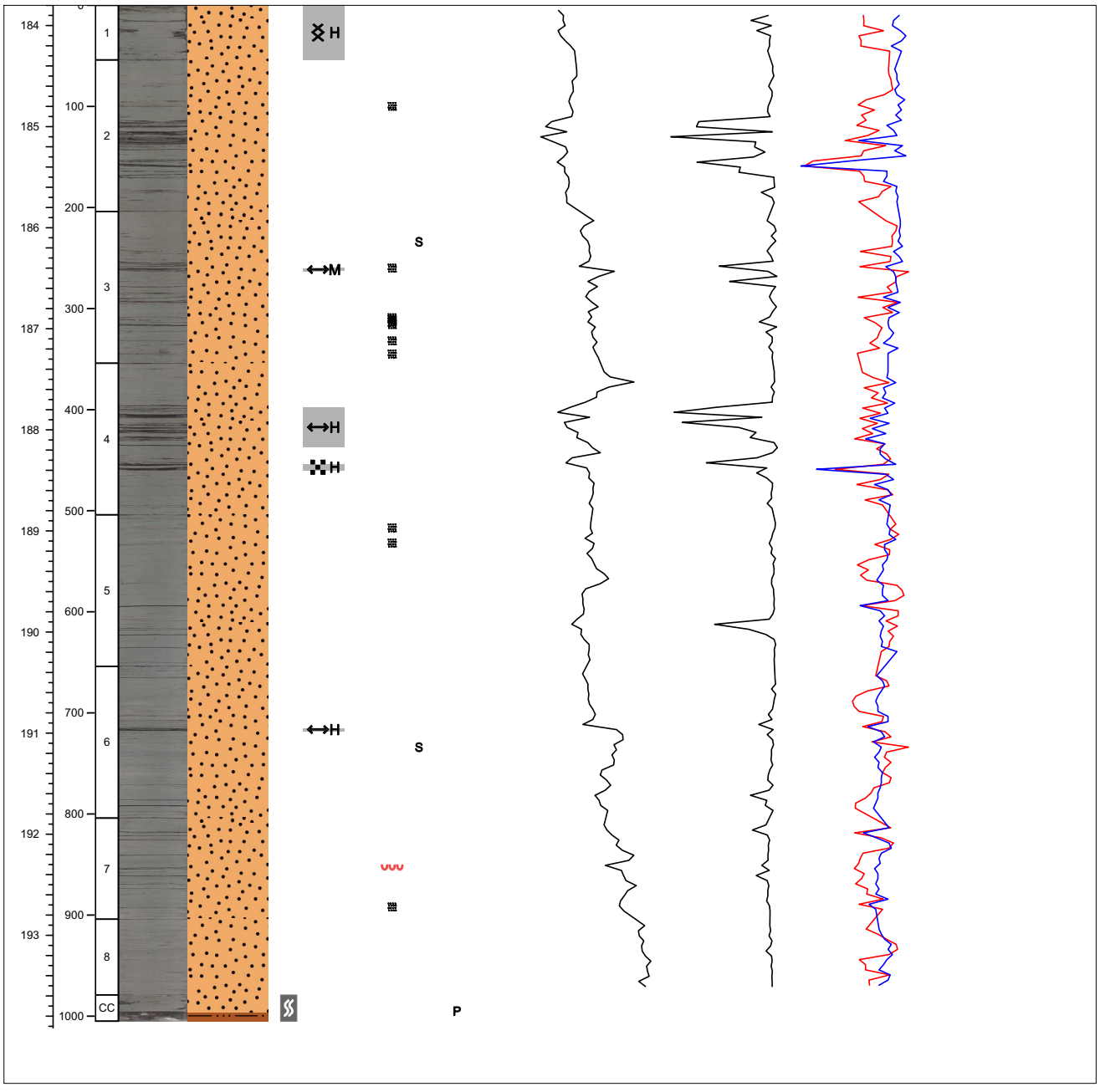
Major lithology: very dark greenish gray diatom-bearing clayey silt. Secondary lithology: authigenic carbonate- and diatom-rich clayey silt. Bioturbation is slight throughout the core with many small sand mottles, sponge spicule aggregates, and a pelycepod valve all present. Two sandy layers occur; both have sharp upper and lower contacts and may indicate erosional surfaces. Drilling disturbance is slight to severe due to gas expansion; many cracks and voids occur.



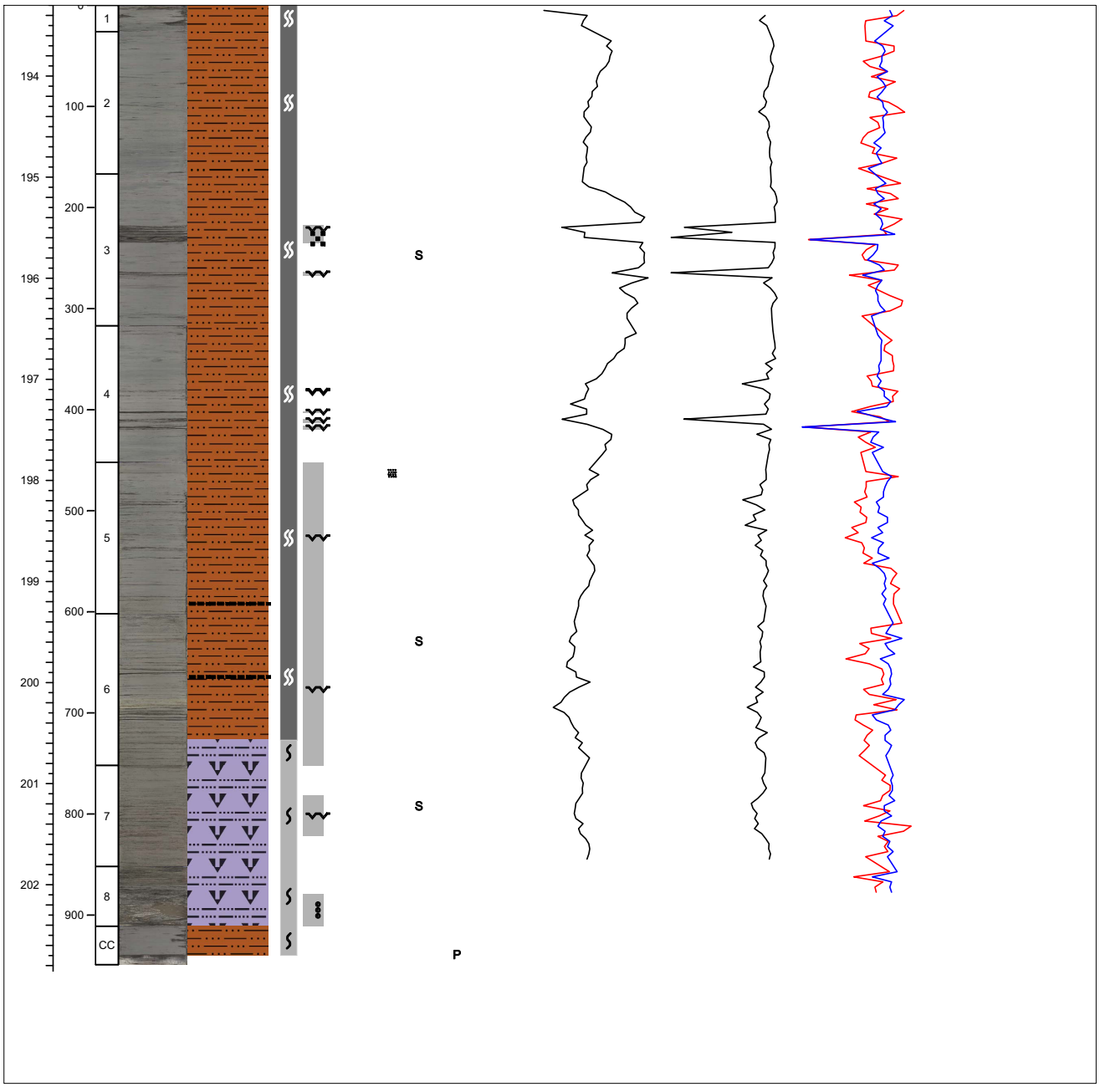
Core Photo

Hole 323-U1344E Core 22H, Interval 183.8-193.85m (CSF-A)

The main lithology is greenish black diatom bearing silt. Several, between 0.5 and 2 cm thick sand layers occur throughout the core and especially in sections 3, 5 and 7. It is worth noting that many of the sand klayers occur near or on th sides of cracks and voids which are also very common in the core. Mottling and sponge spicule aggregates occur scattered throughout the core. Section 1 was extruded on the rig floor.



Core Photo

Hole 323-U1344E Core 23H, Interval 193.3-202.79m (CSF-A)

Major lithology: diatom-bearing silty clay (very dark gray 3/N) from section 1 to Section 6; diatom clayey silt (very dark greenish gray 10Y 3/1) from Section 7 to 8.One sandy layer occurred in Section 5 (11-12cm). Diatom ooze was recognized in light colored mottling in Section 6 (90-92cm; 26-27cm). Pyrite speck scattered through the core.