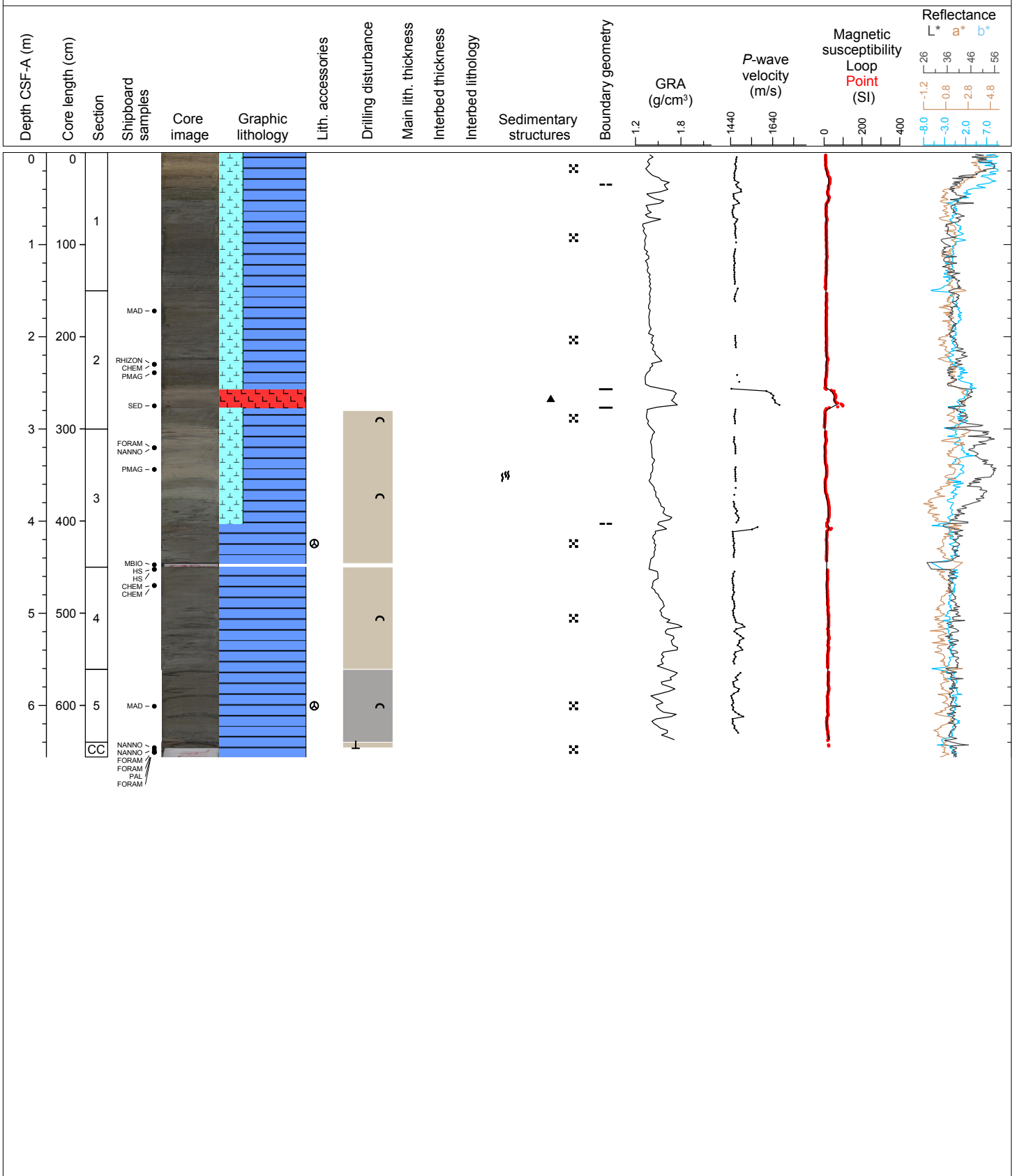
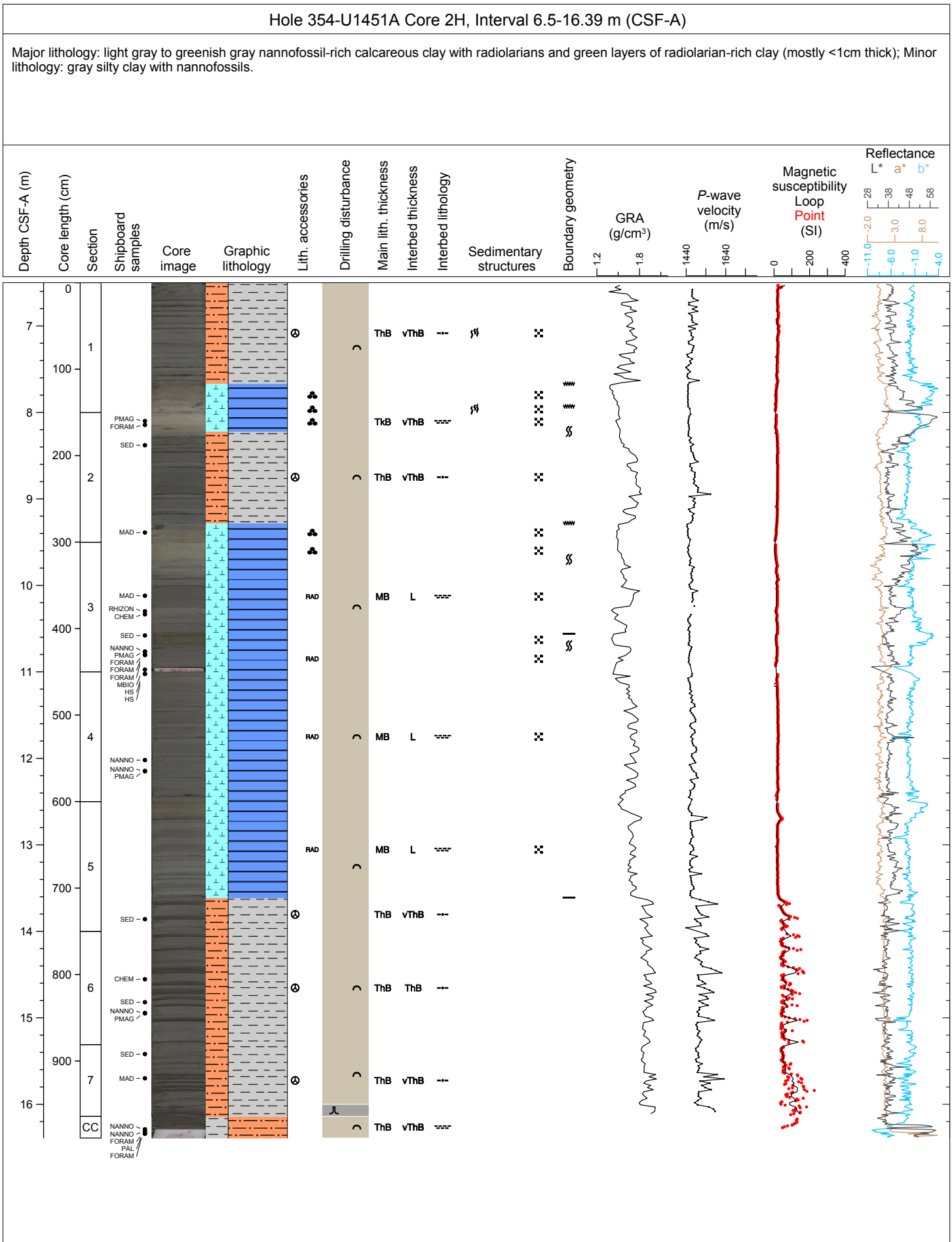
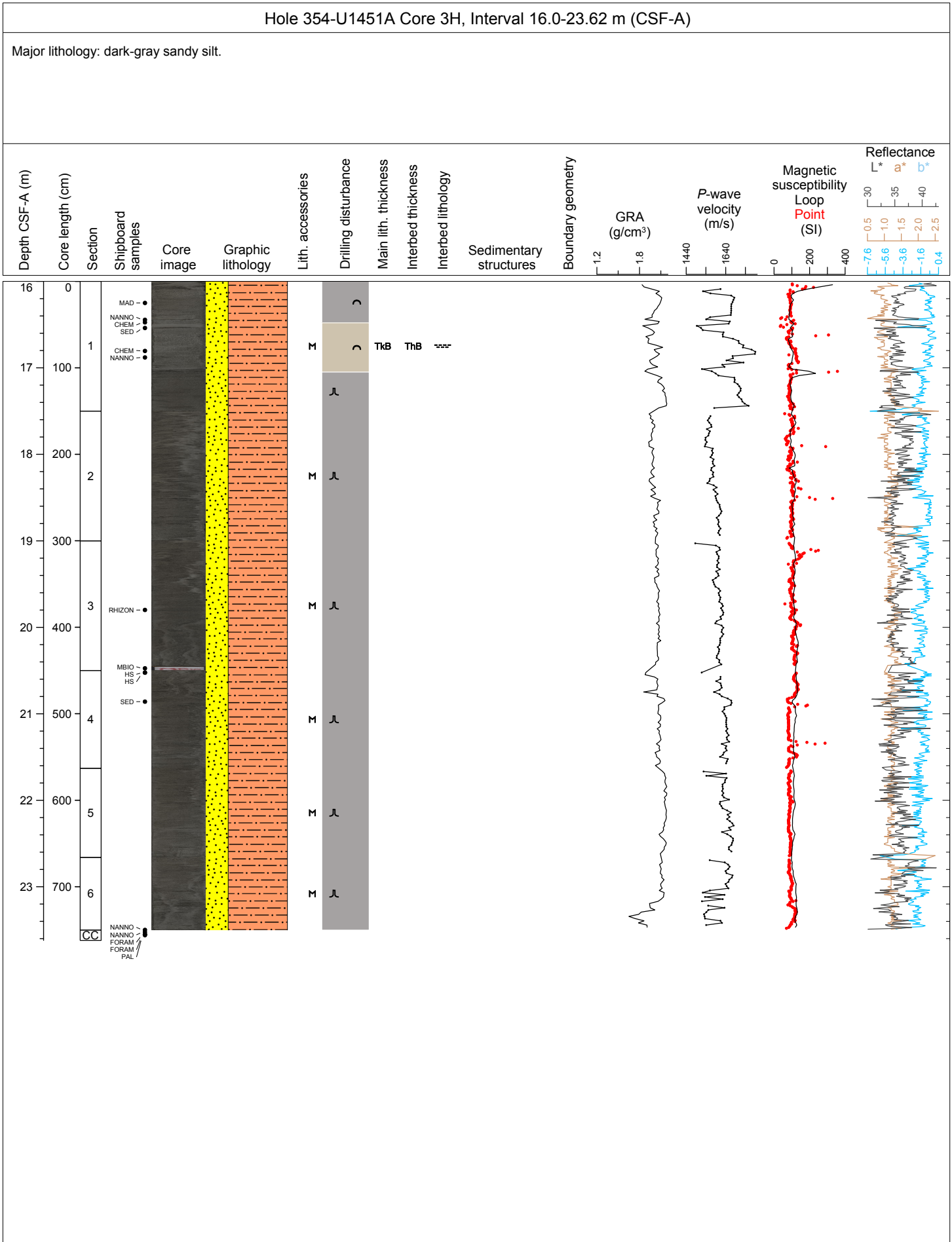


Hole 354-U1451A Core 1H, Interval 0.0-6.56 m (CSF-A)

Major lithology: light gray to greenish gray mottled nannofossil rich calcareous clay; Minor lithology: dark green mottled nannofossil rich clay and light brown volcanic ash. General comments: volcanic ash layer at 1H-2A 107-127 cm, ash pockets at 1H-3A and 5A.

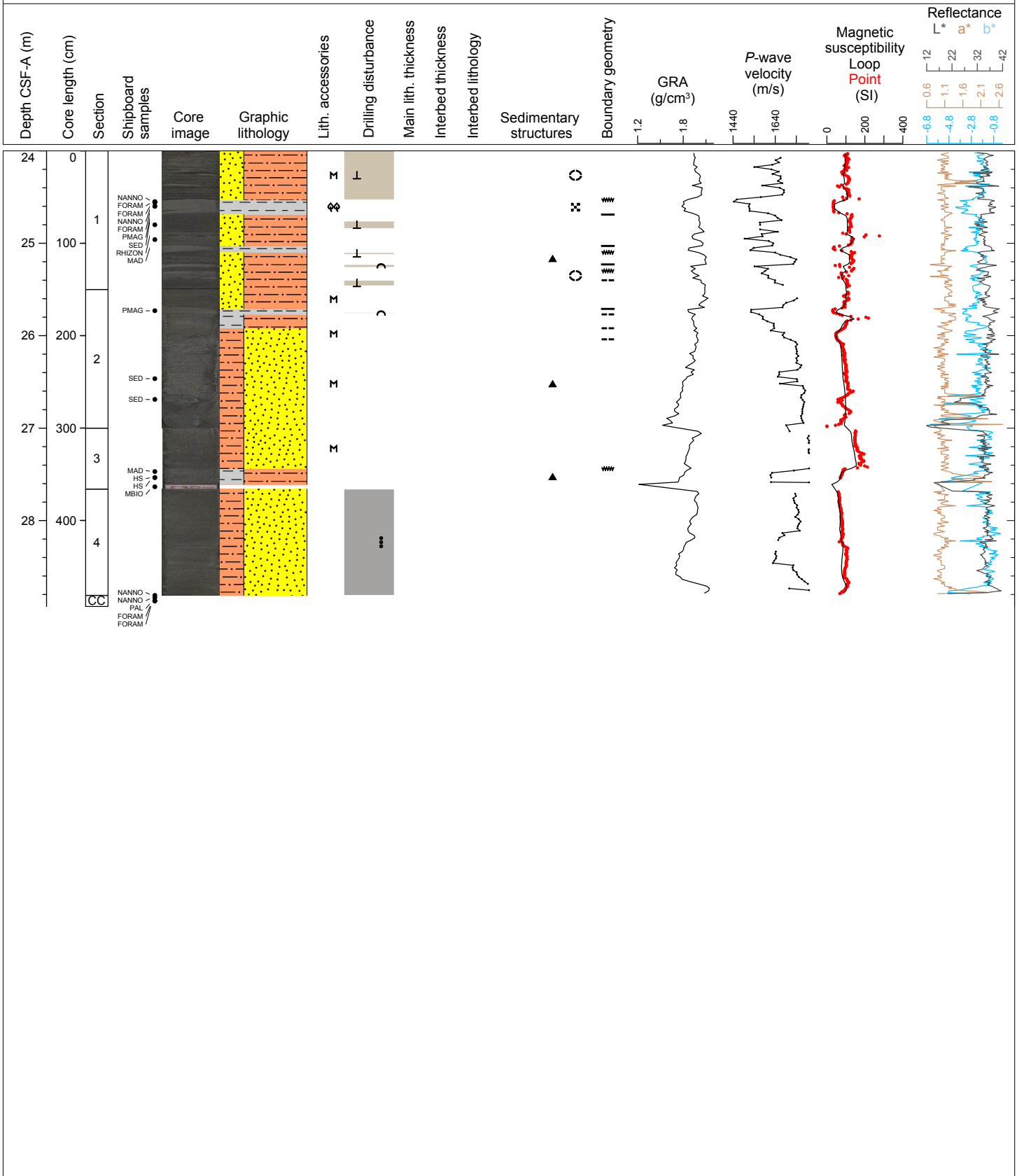


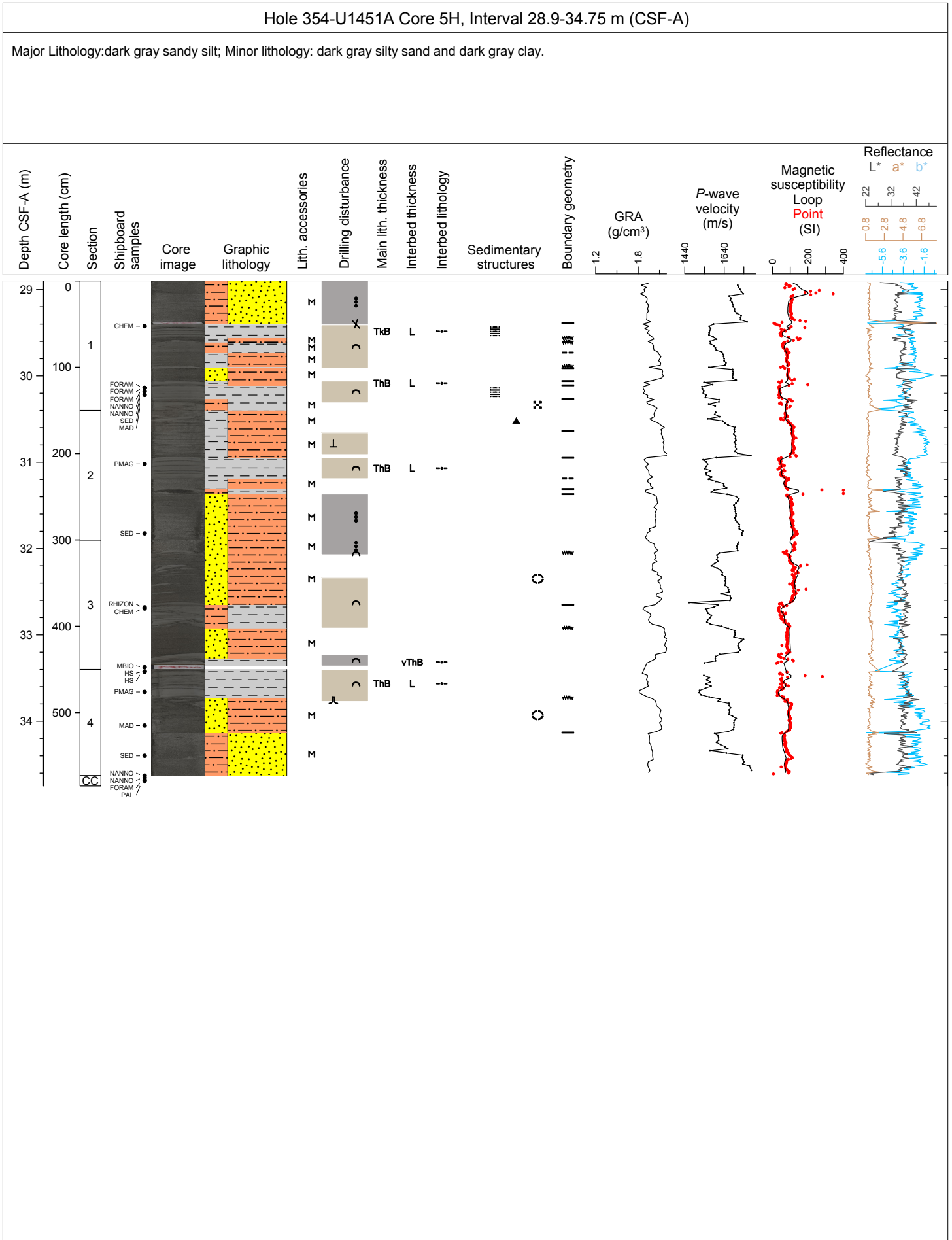


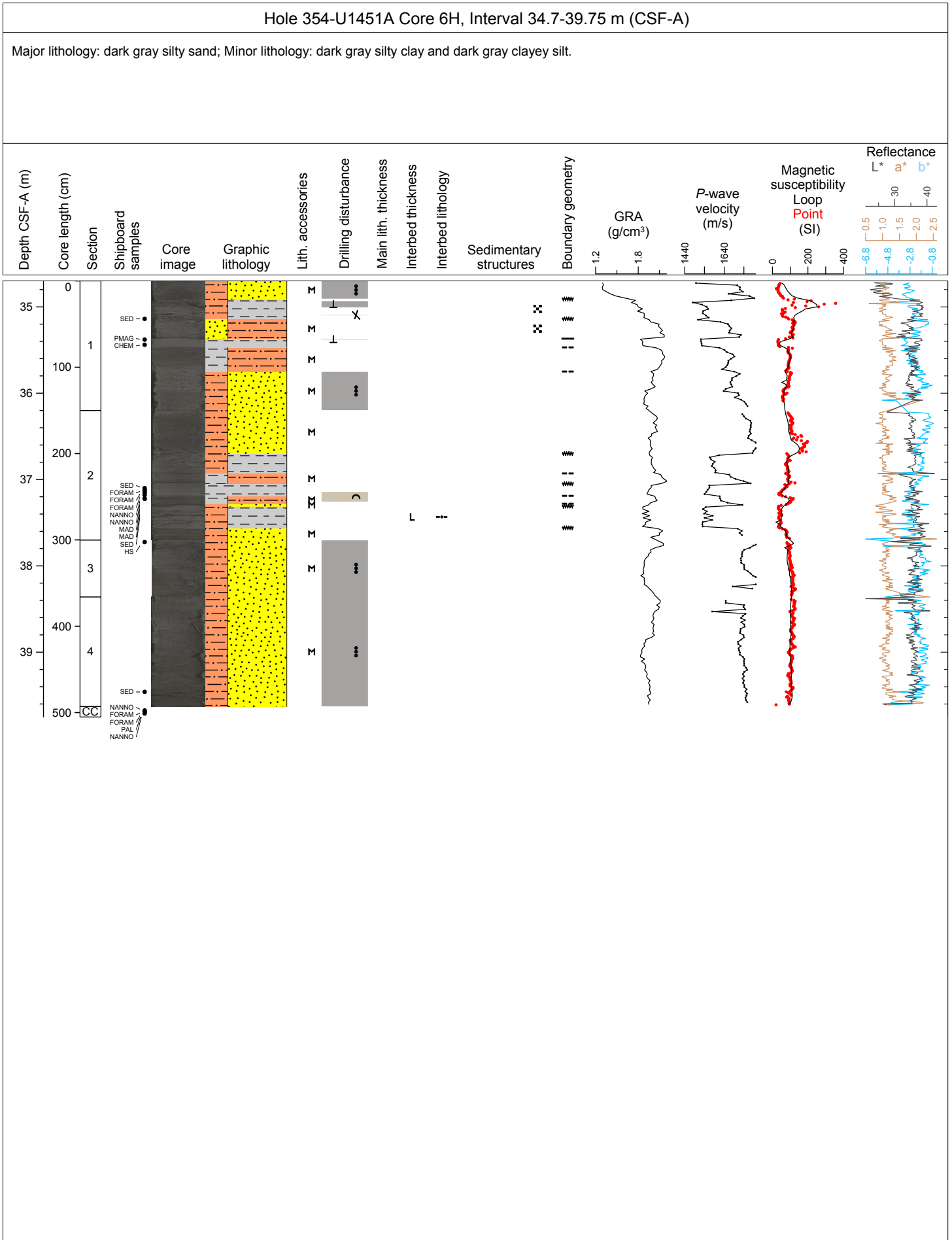


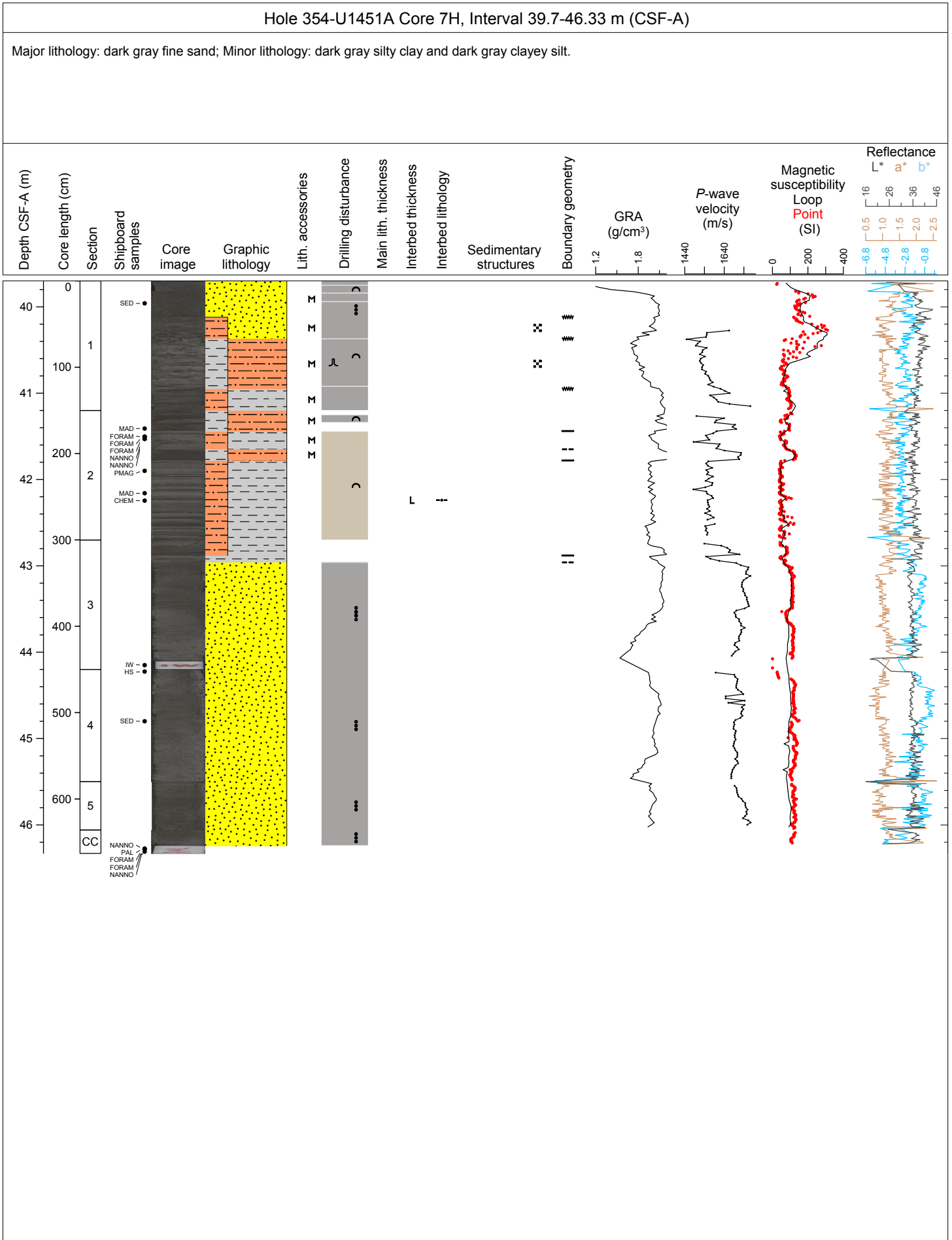
Hole 354-U1451A Core 4H, Interval 24.0-28.93 m (CSF-A)

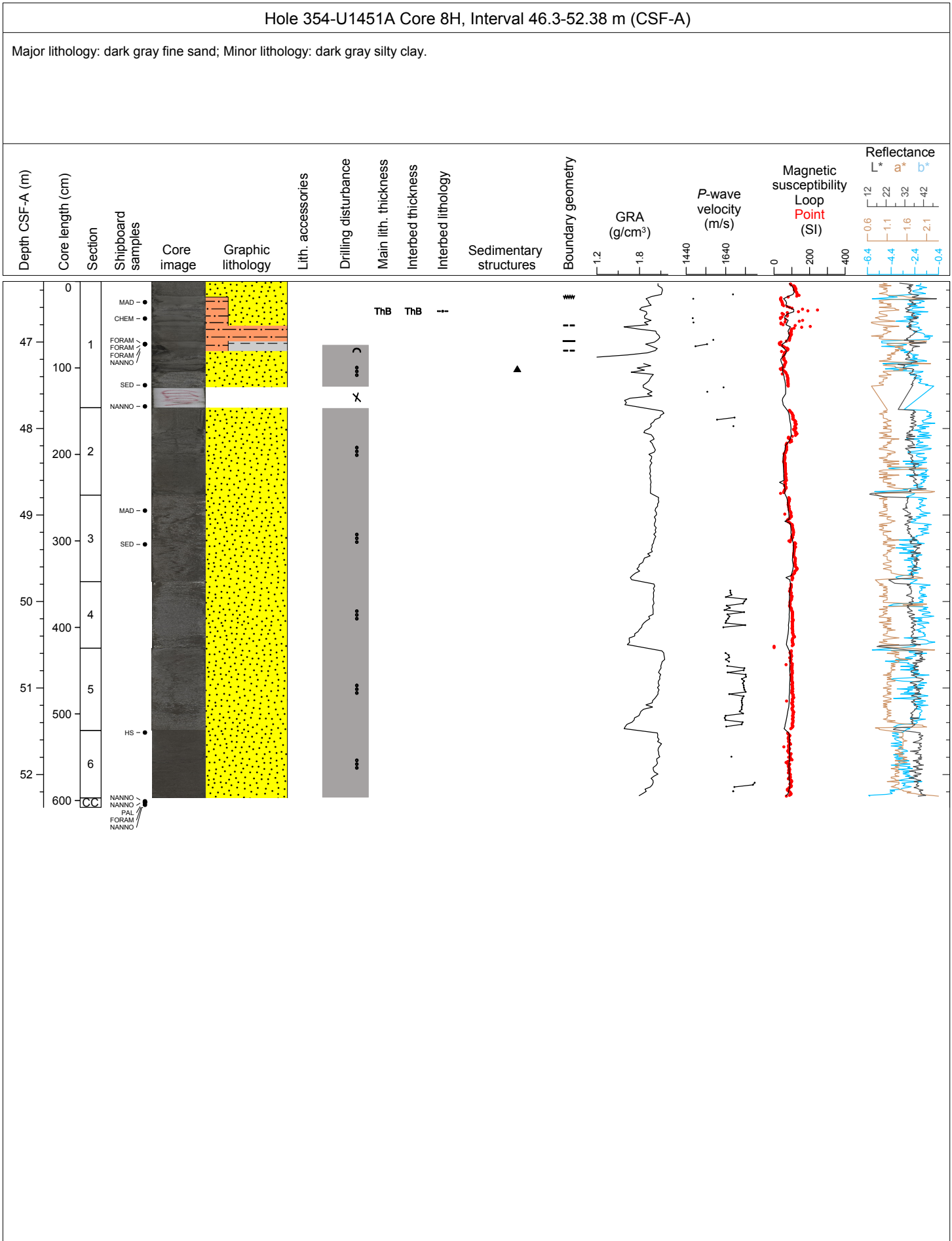
Major Lithology: dark gray sandy silt; Minor lithology: dark gray silty sand and dark gray mottled clay.

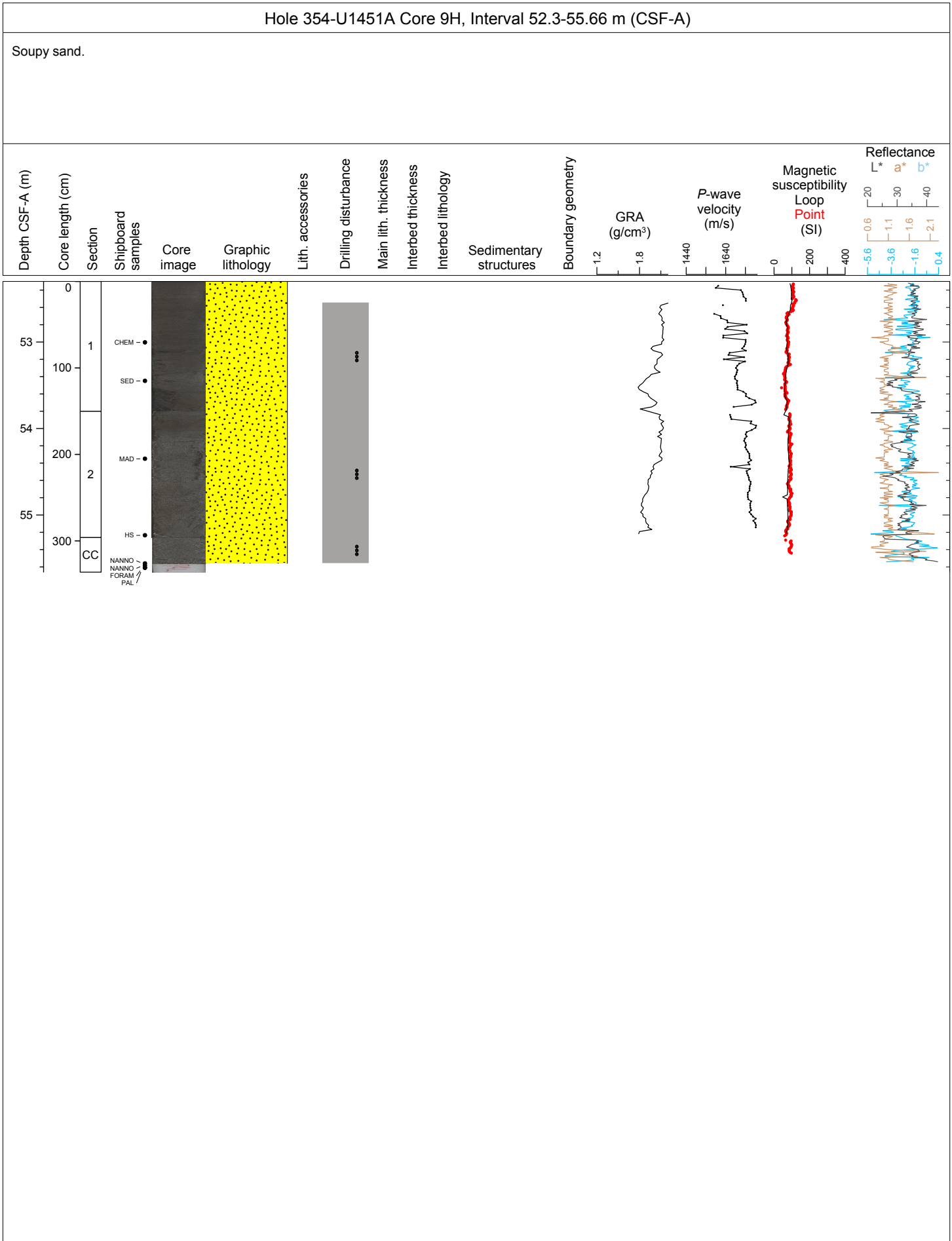






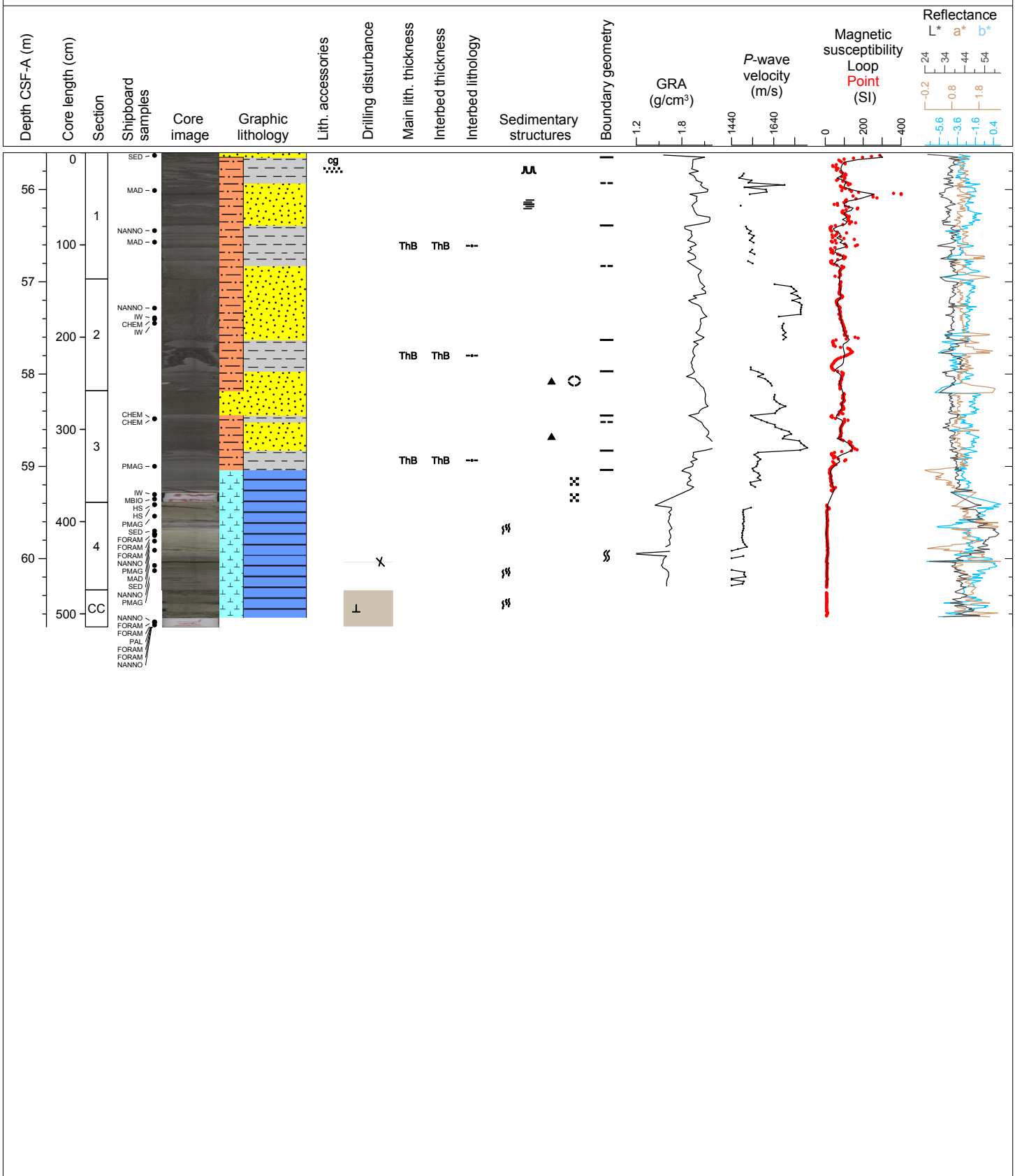


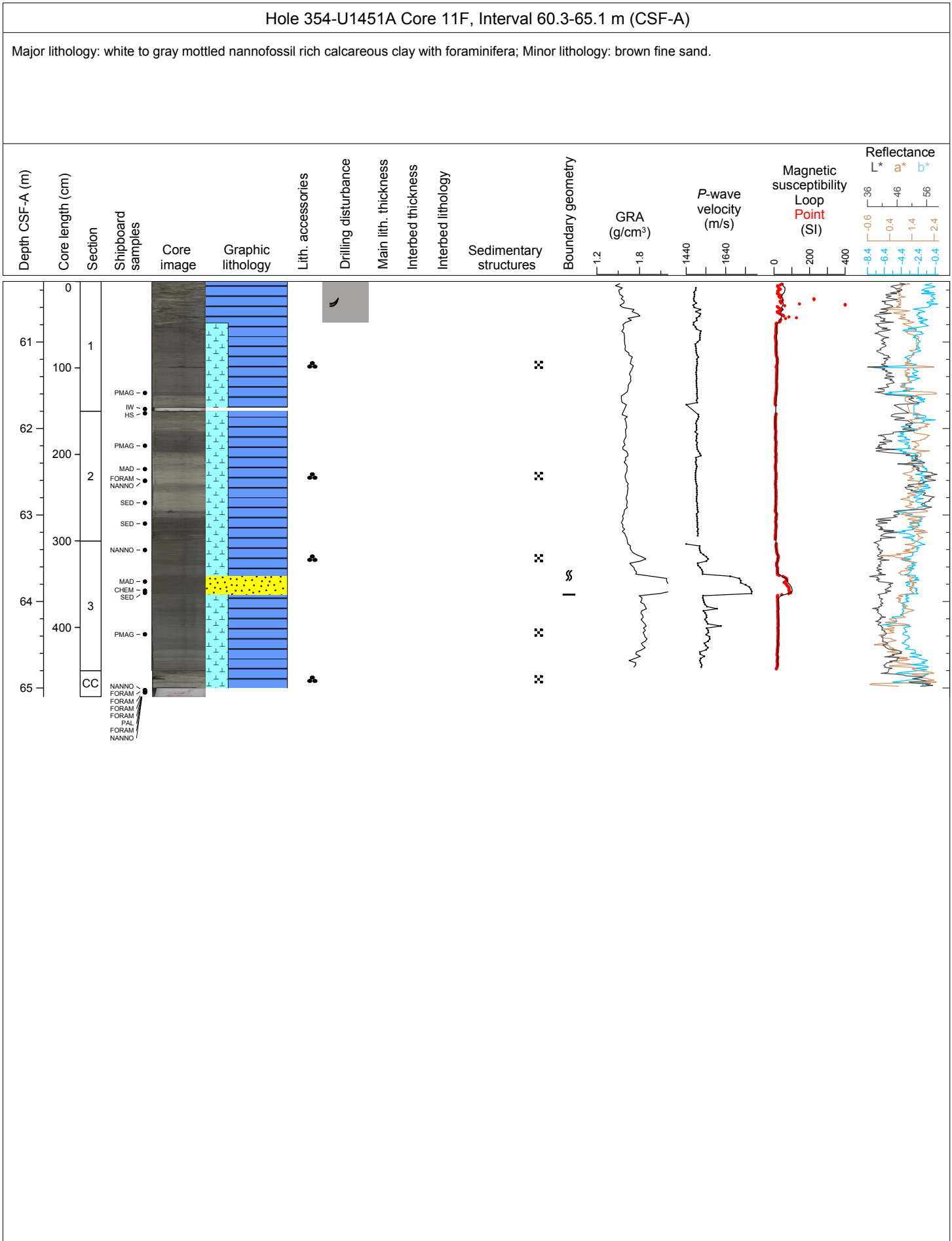




Hole 354-U1451A Core 10F, Interval 55.6-60.74 m (CSF-A)

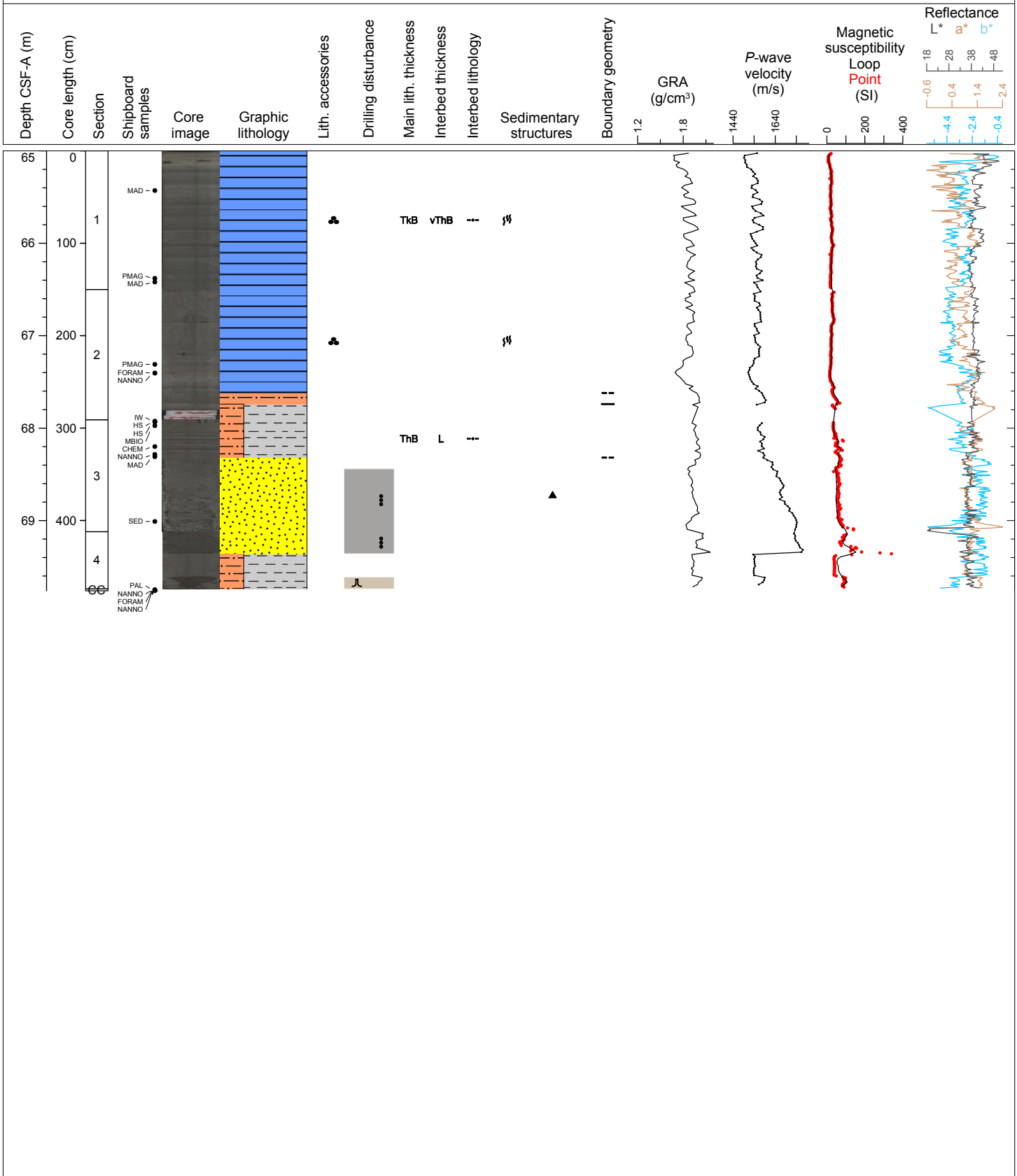
Major lithology: dark gray silty sand; Minor lithology: white to gray mottled nannofossil rich calcareous clay with burrows and dark gray clay.

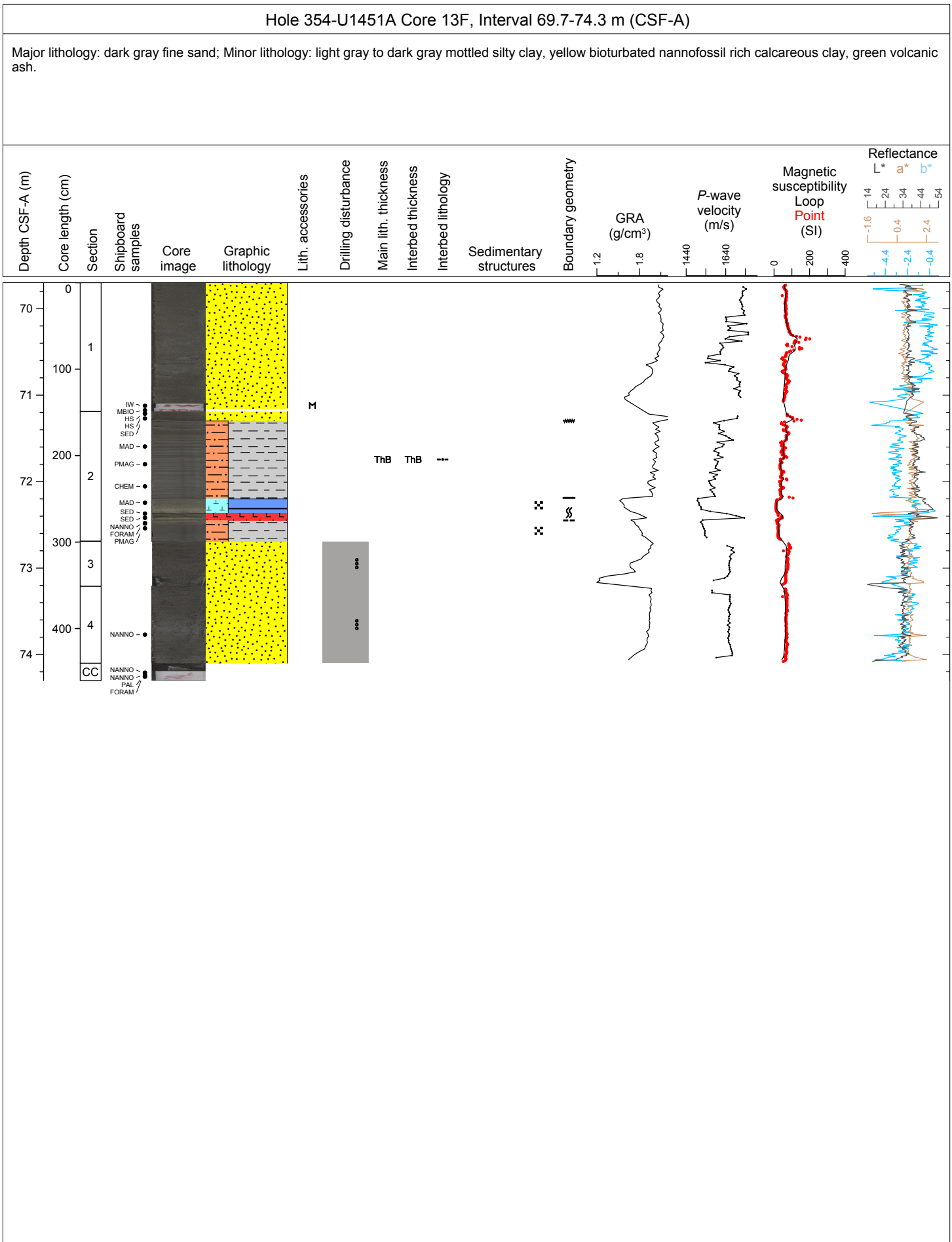




Hole 354-U1451A Core 12F, Interval 65.0-69.76 m (CSF-A)

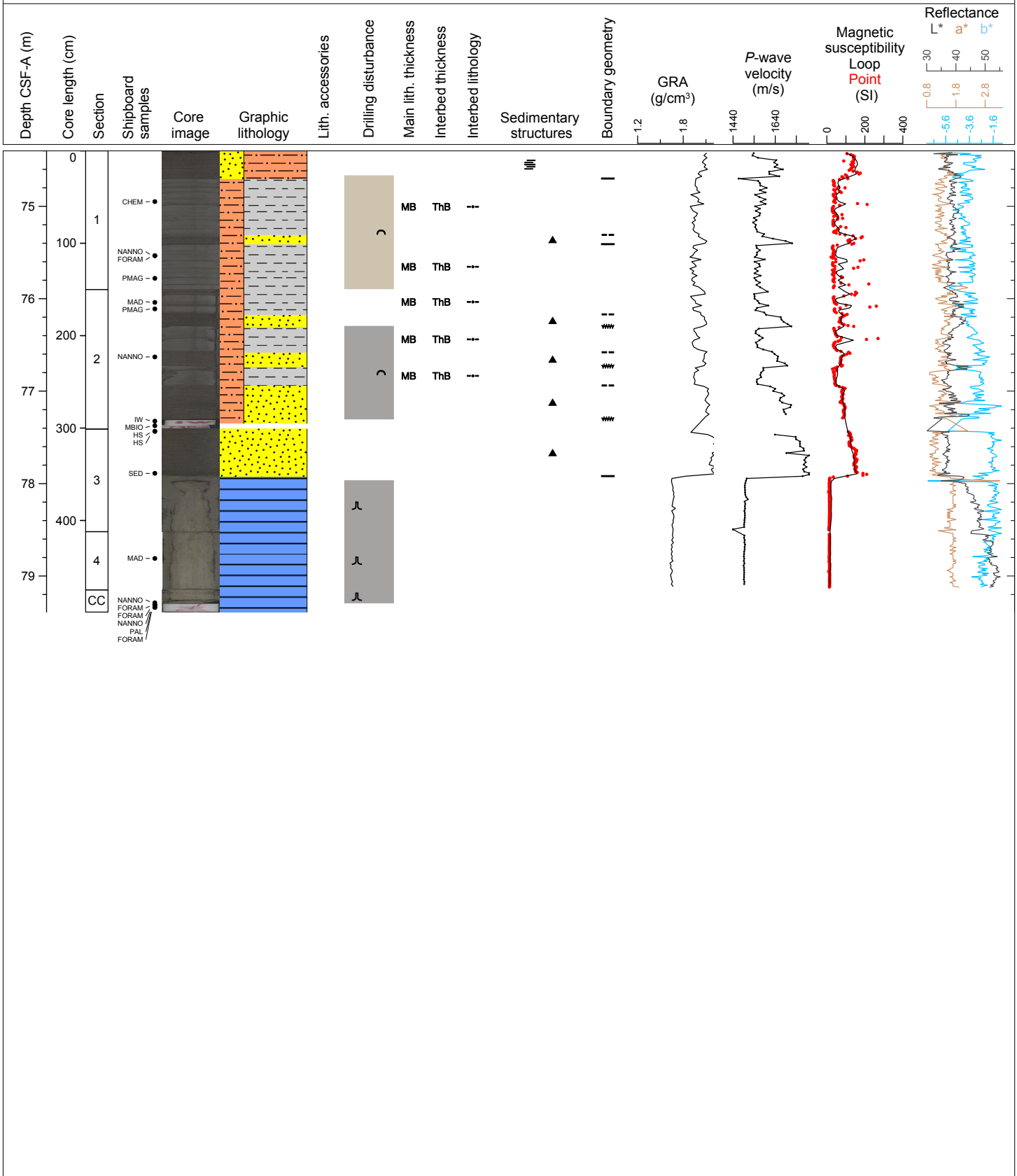
Major lithology: dark green to gray bioturbated calcareous clay with foraminifers; Minor lithology: dark gray normally graded fine sand and gray silty clay.





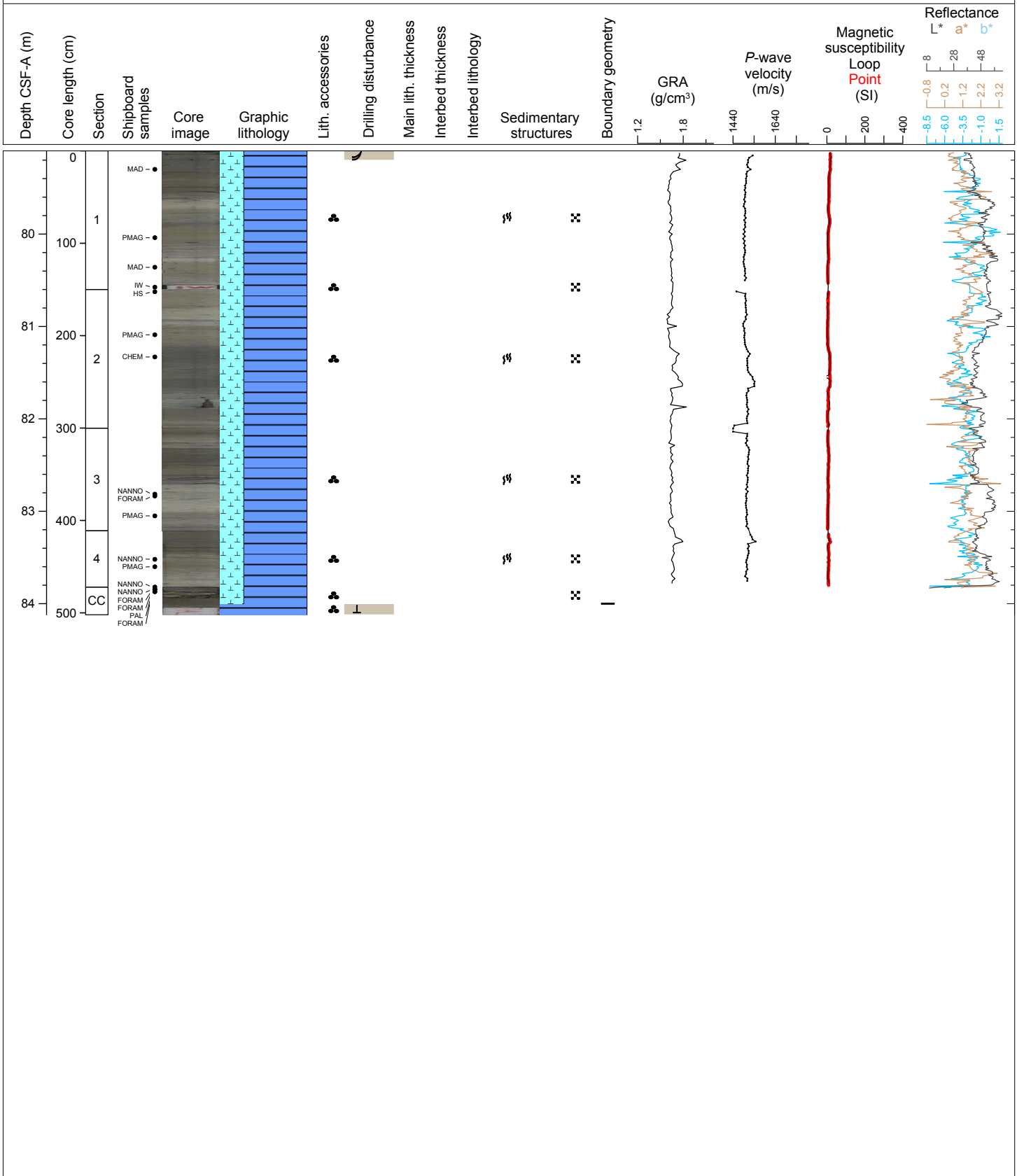
Hole 354-U1451A Core 14F, Interval 74.4-79.39 m (CSF-A)

Major lithology: gray silty clay; Minor lithology: light brown calcareous clay, dark gray normally graded silty sand and dark gray laminated sandy silt.



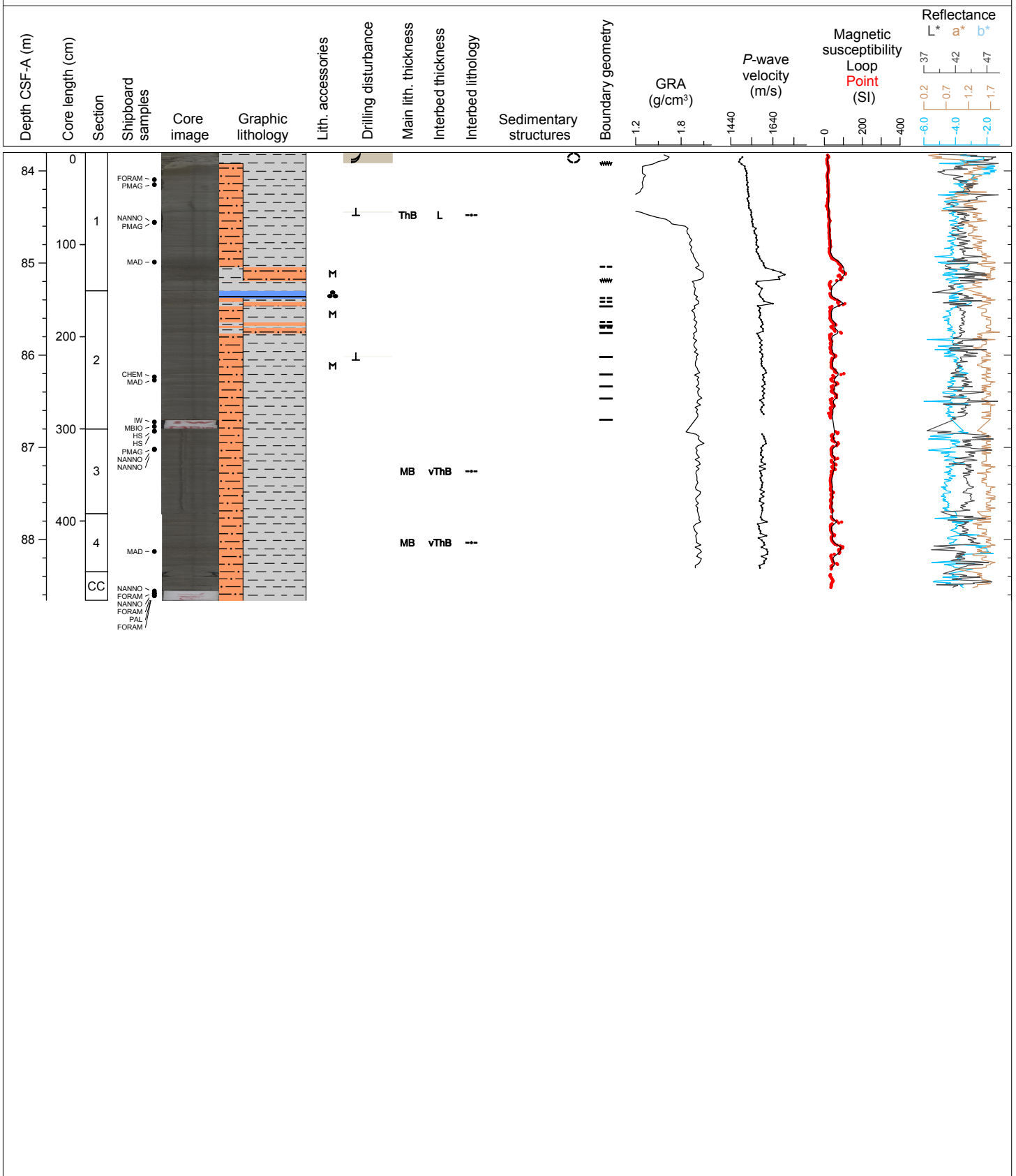
Hole 354-U1451A Core 15F, Interval 79.1-84.12 m (CSF-A)

Major lithology: white to gray mottled bioturbated nanofossil rich calcareous clay with foraminifers.



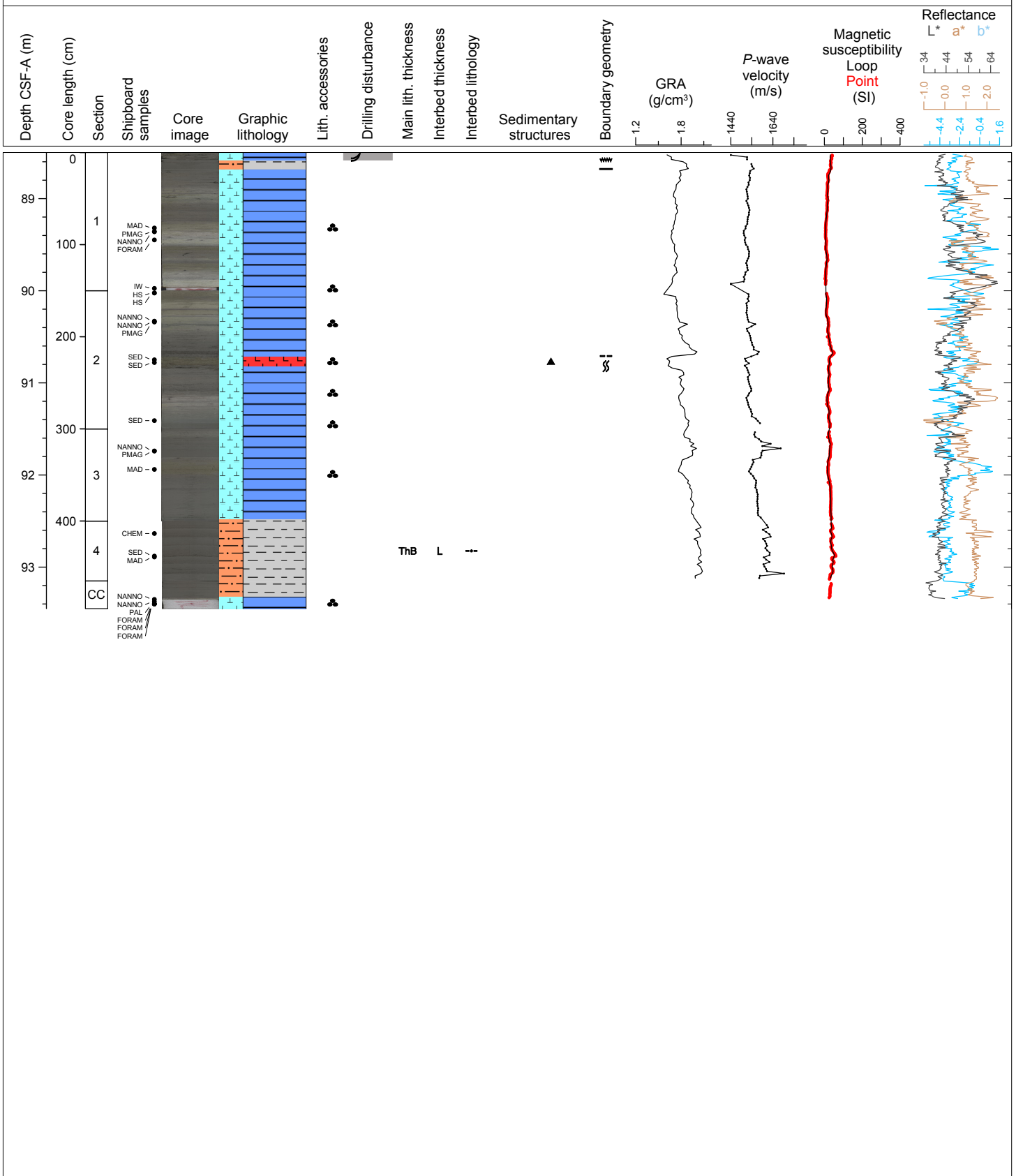
Hole 354-U1451A Core 16F, Interval 83.8-88.66 m (CSF-A)

Major lithology: dark gray silty clay; Minor lithology: dark gray clayey silt with mica.



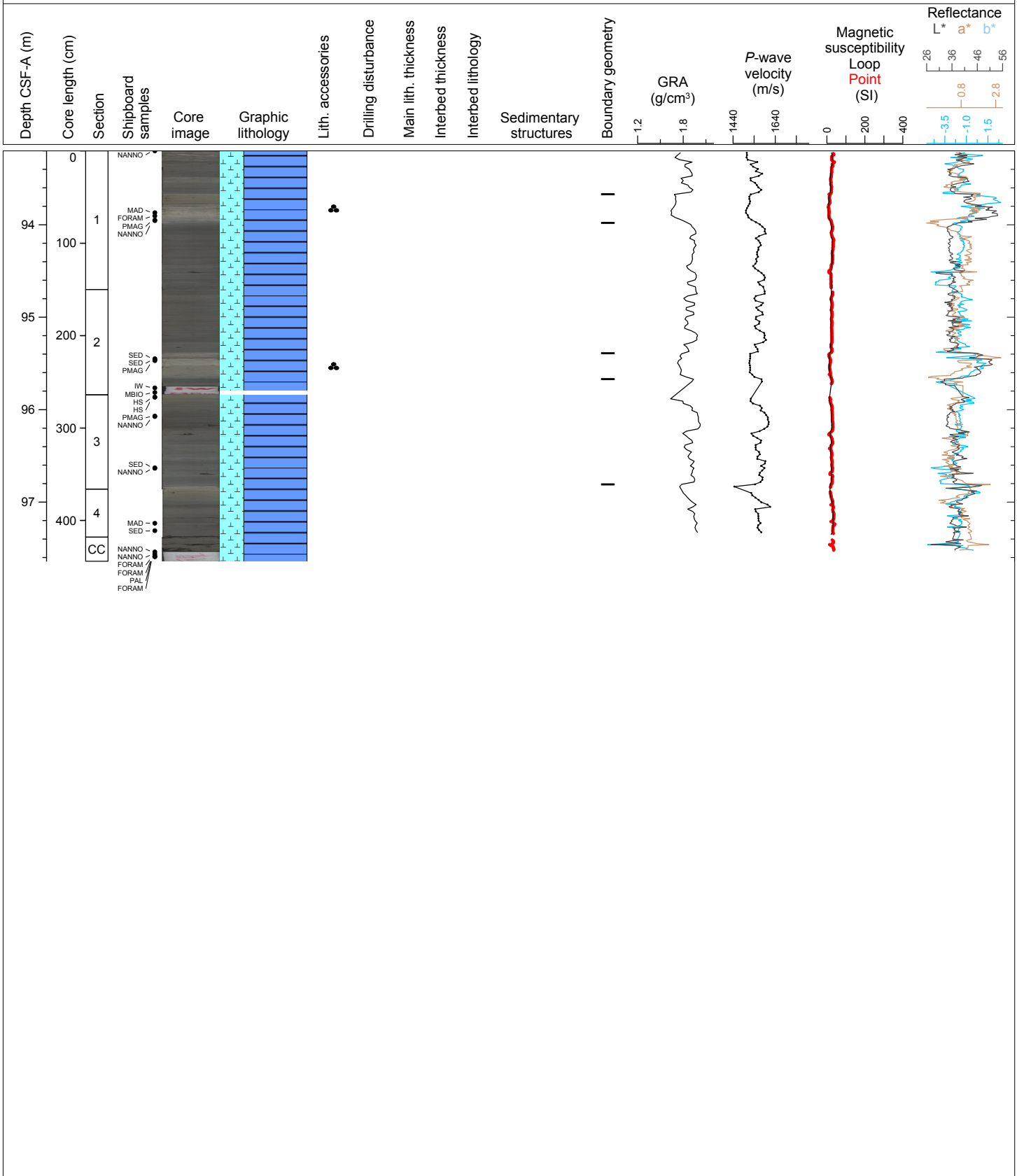
Hole 354-U1451A Core 17F, Interval 88.5-93.45 m (CSF-A)

Major lithology: light-gray to greenish-gray nannofossil-rich calcareous clay with foraminifers (and an ash layer); Minor lithology: successions of dark-gray silt fining upwards into silty clay.



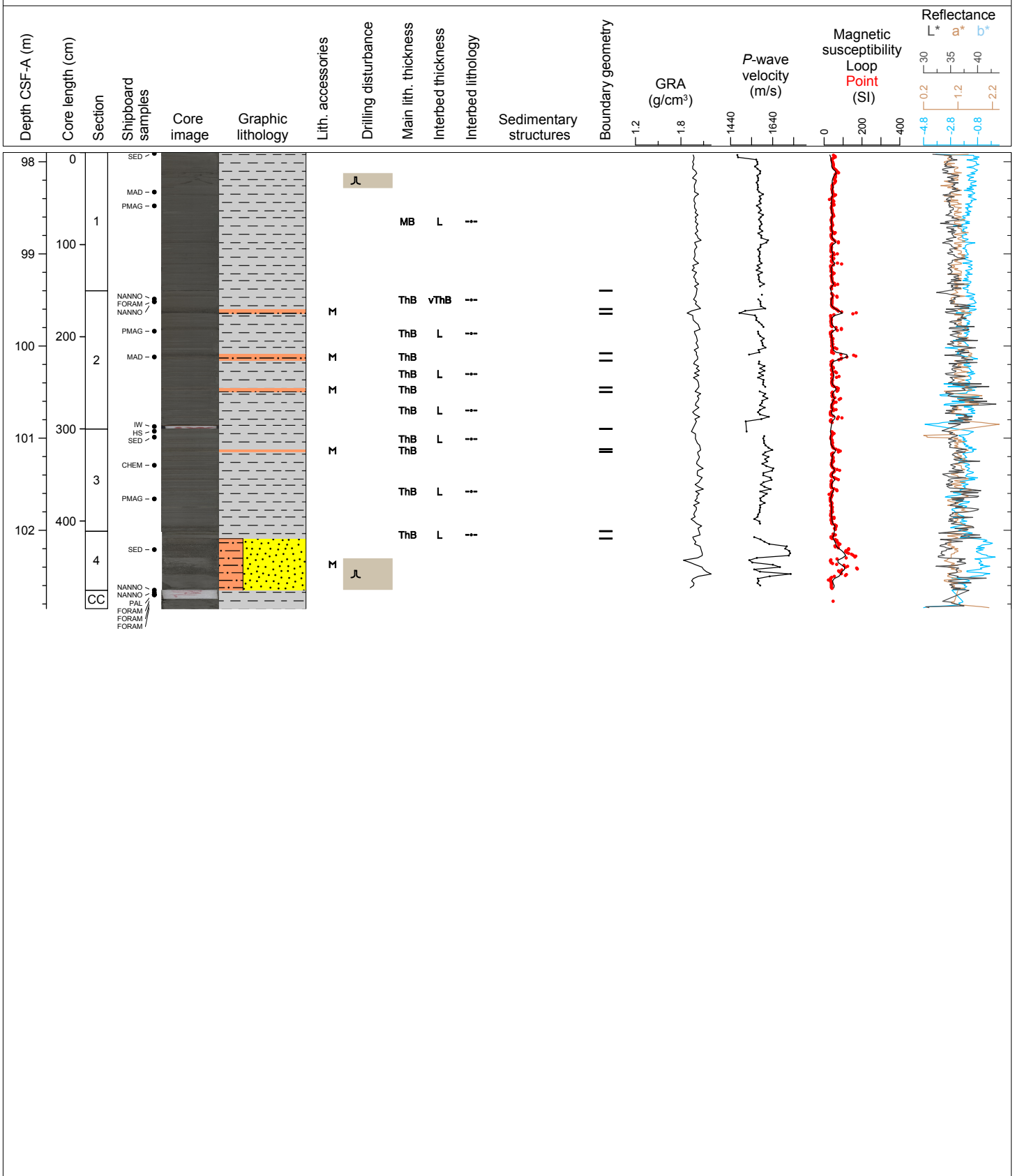
Hole 354-U1451A Core 18F, Interval 93.2-97.64 m (CSF-A)

Major lithology: dark gray to light gray nannofossil rich calcareous clay.



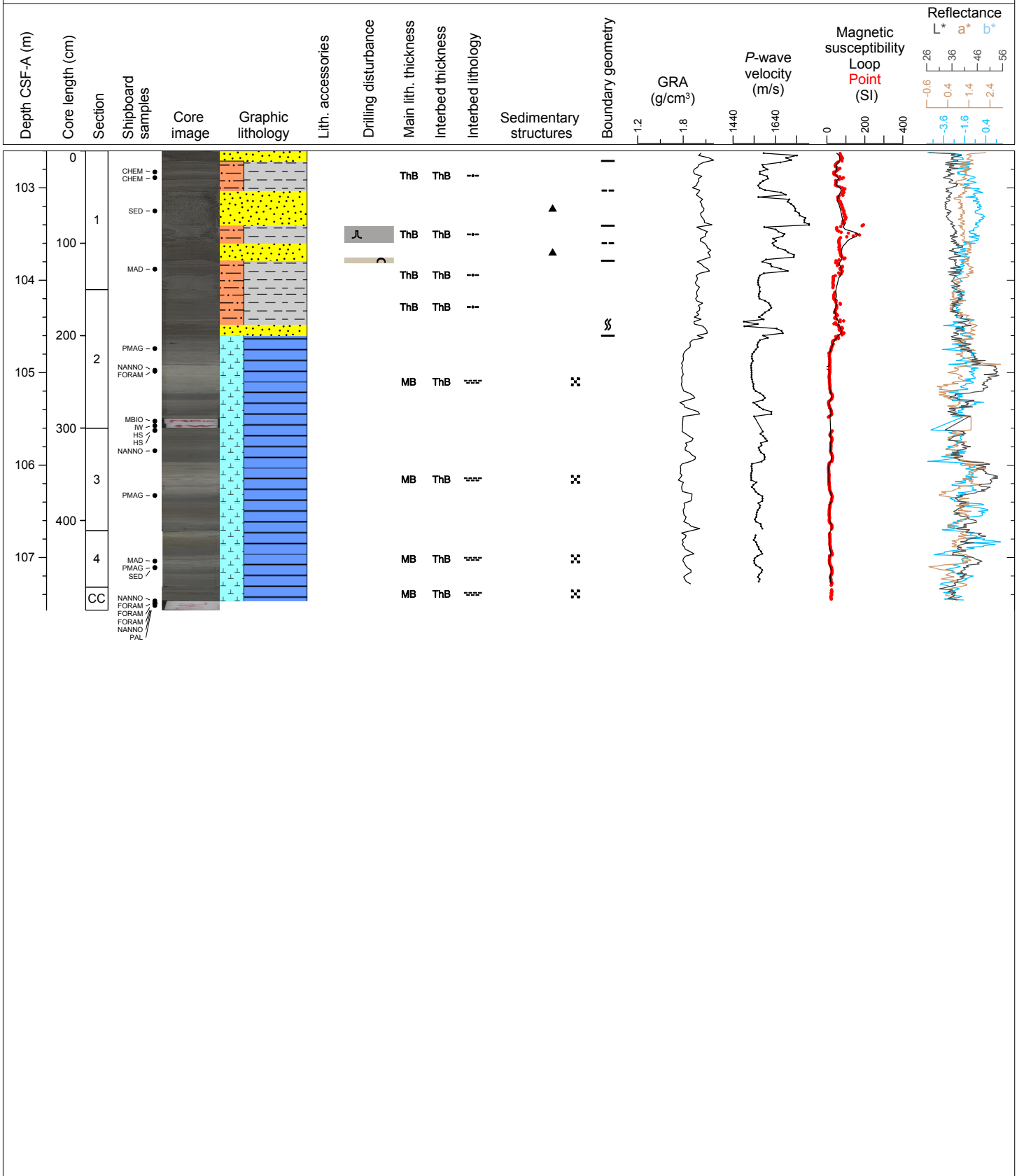
Hole 354-U1451A Core 19F, Interval 97.9-102.85 m (CSF-A)

Major lithology: greenish gray to dark gray clay; Minor lithology: gray to dark gray laminated silt with mica and dark gray silty fine sand.



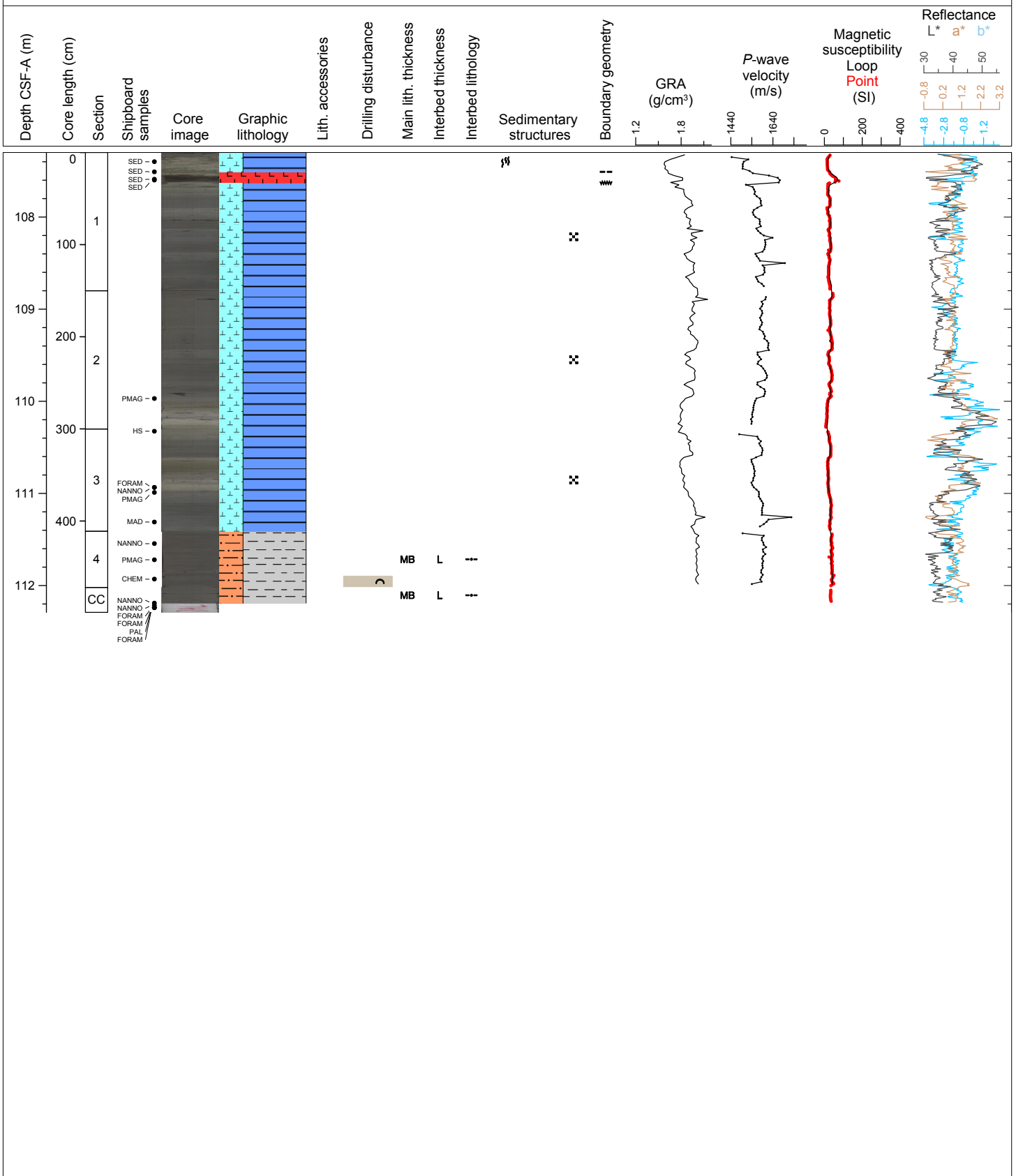
Hole 354-U1451A Core 20F, Interval 102.6-107.57 m (CSF-A)

Major lithology: light gray mottled nannofossil rich calcareous clay; Minor lithology: dark gray silty clay and dark gray normally graded fine sand.



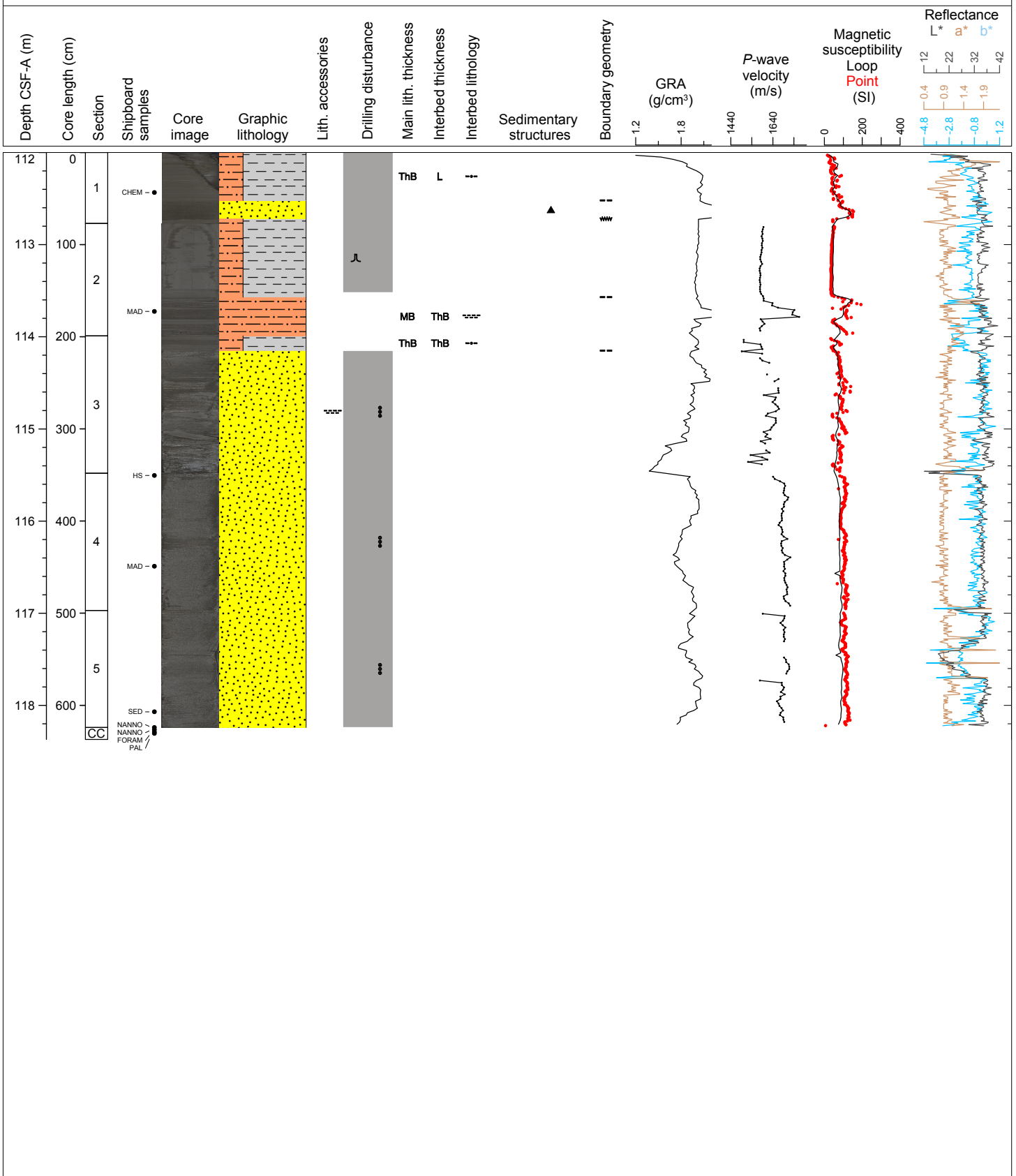
Hole 354-U1451A Core 21F, Interval 107.3-112.29 m (CSF-A)

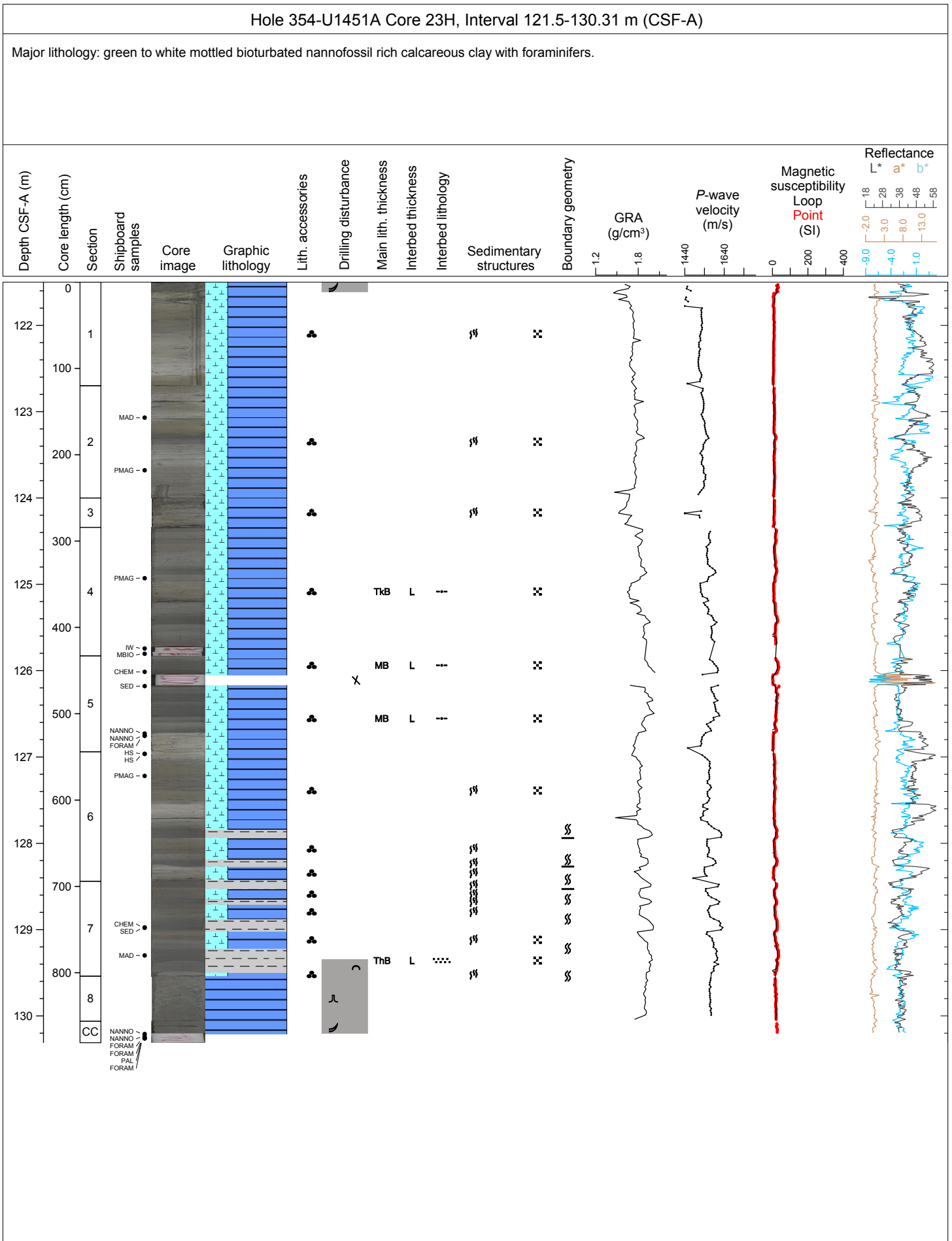
Major lithology: white to green mottled nannofossil rich calcareous clay; Minor lithology: gray silty clay and brown volcanic ash.



Hole 354-U1451A Core 22H, Interval 112.0-118.37 m (CSF-A)

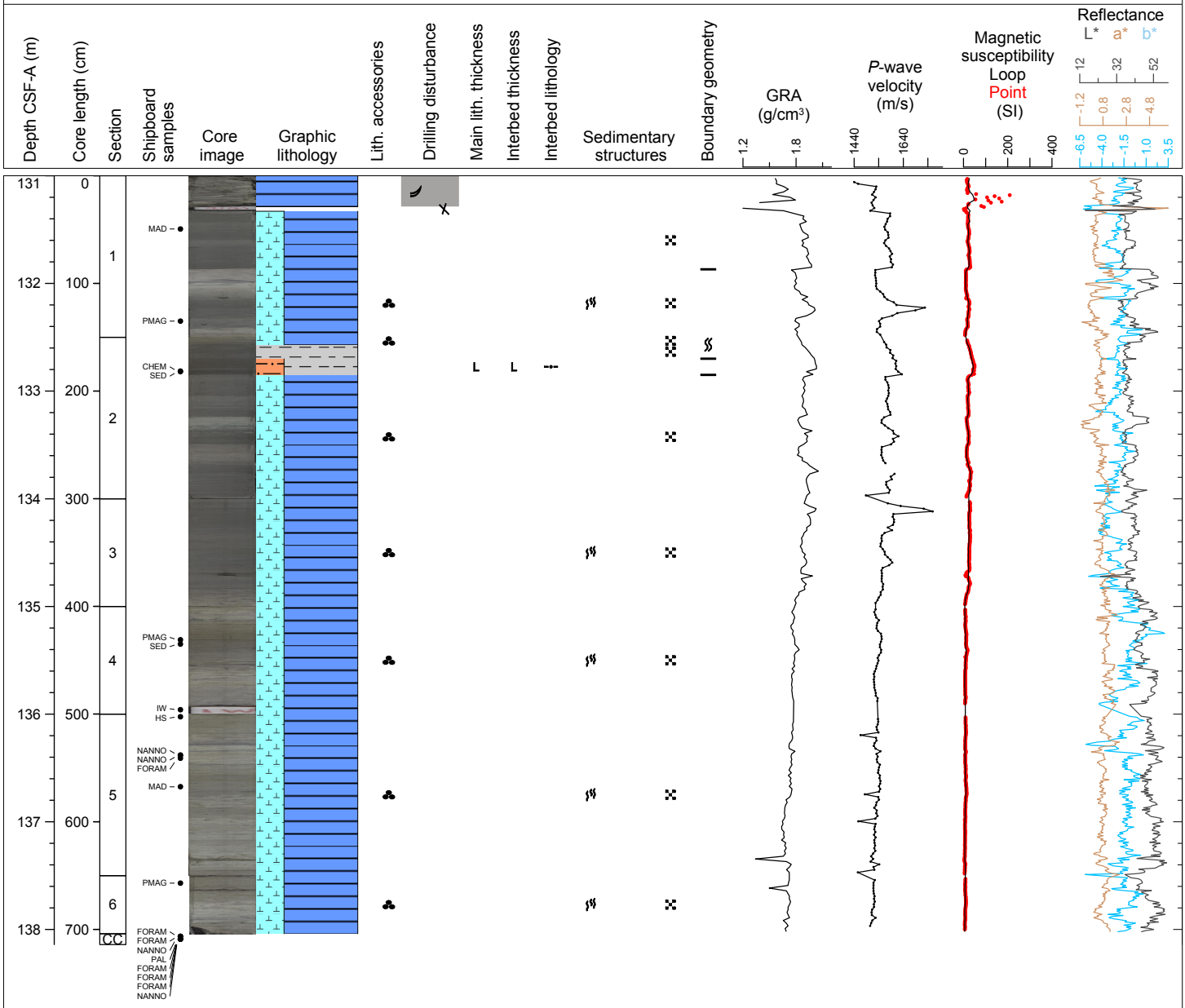
Major lithology: gray fine sand; Minor lithology: dark gray to gray silty clay and gray silt.





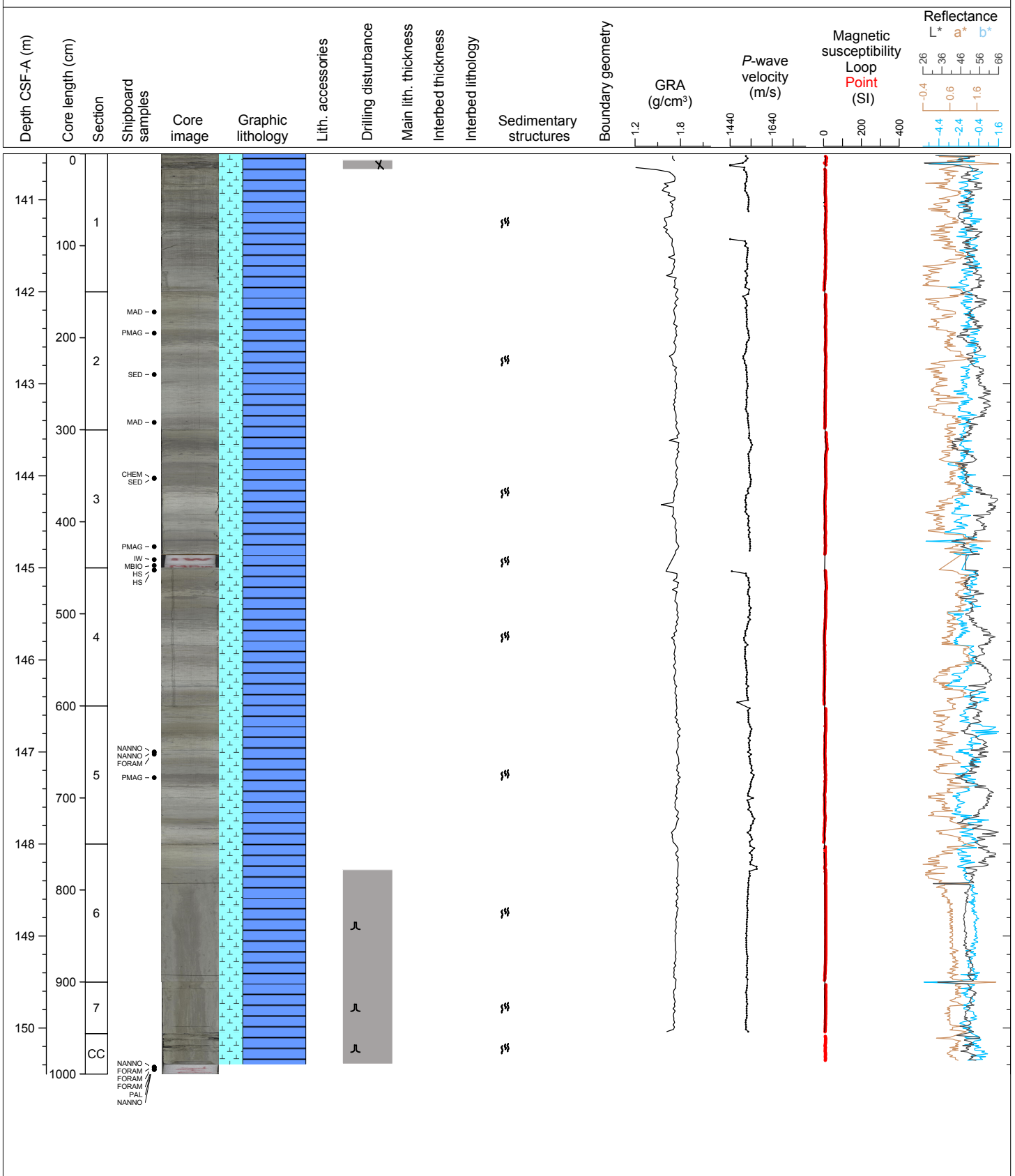
Hole 354-U1451A Core 24H, Interval 131.0-138.14 m (CSF-A)

Major lithology: white mottled nannofossil rich calcareous clay with foraminifers. Minor lithology: dark gray mottled clay with silt lamina.



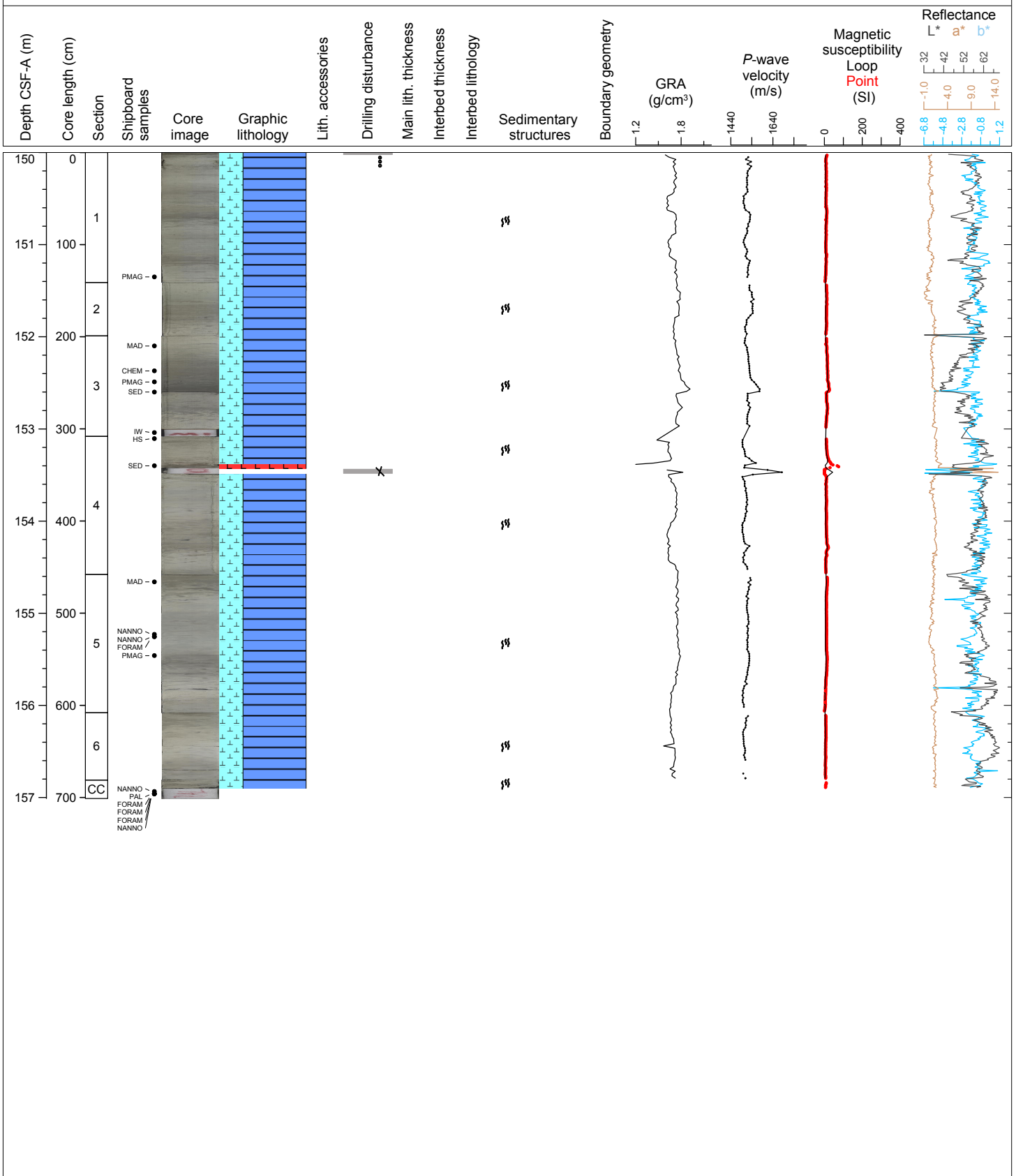
Hole 354-U1451A Core 25H, Interval 140.5-150.5 m (CSF-A)

Major lithology: white bioturbated nannofossil rich calcareous clay.



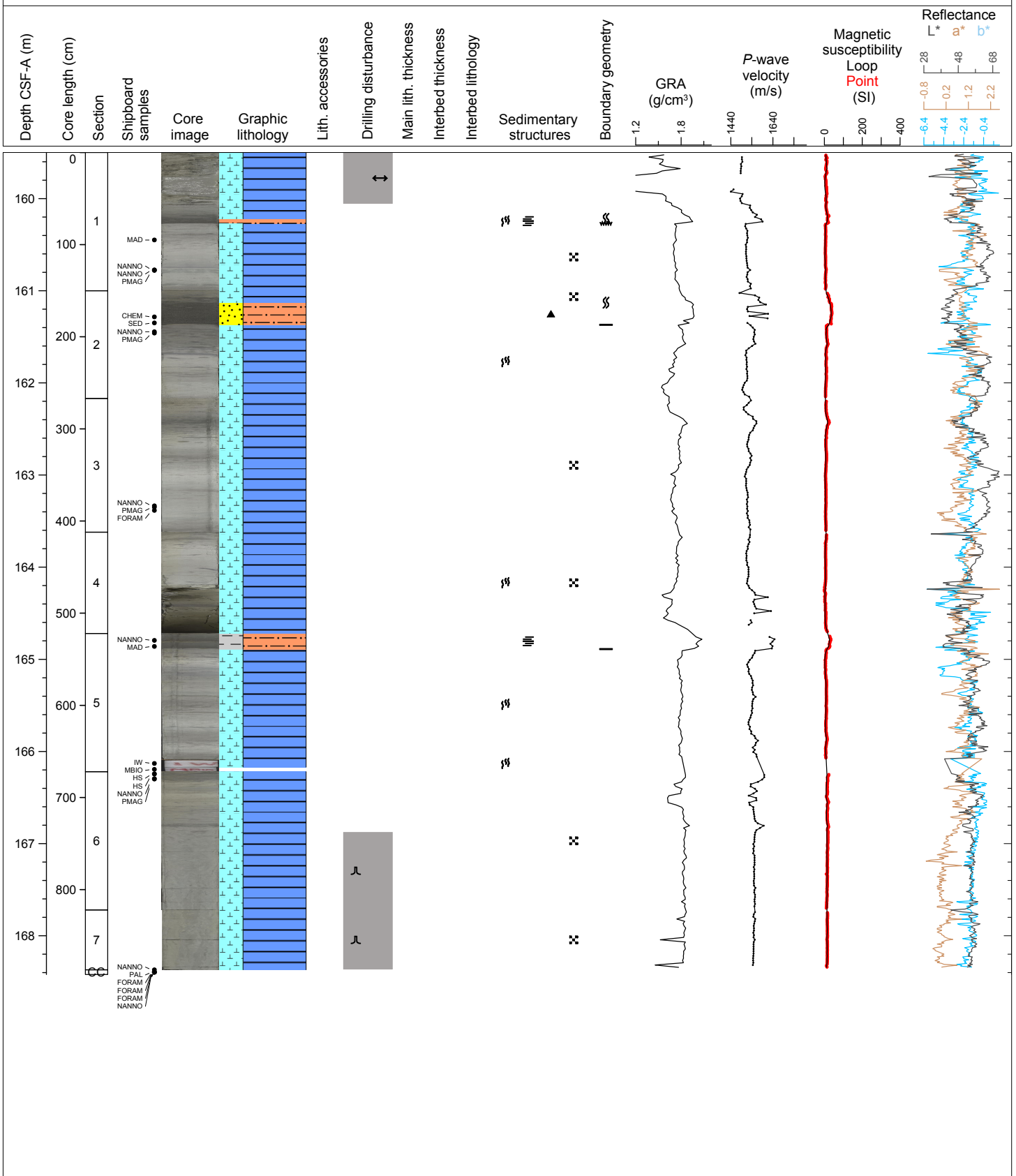
Hole 354-U1451A Core 26H, Interval 150.0-157.01 m (CSF-A)

Major lithology: white bioturbated nannofossil rich calcareous clay; Minor lithology: brown volcanic ash.



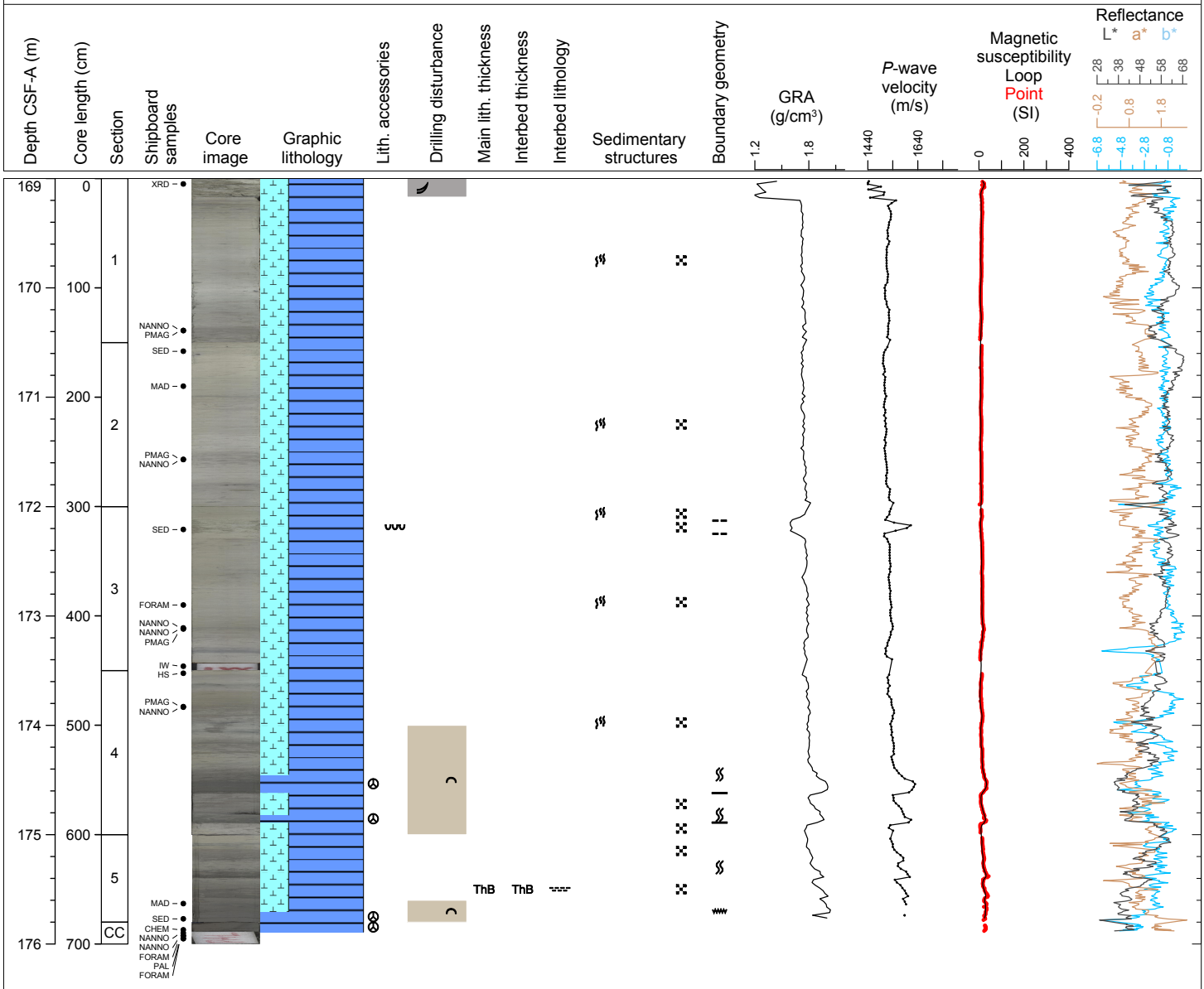
Hole 354-U1451A Core 27H, Interval 159.5-168.42 m (CSF-A)

Major lithology: light green to white mottled bioturbated nannofossil rich calcareous clay; Minor lithology: light green to greenish gray parallel laminated clayey silt.



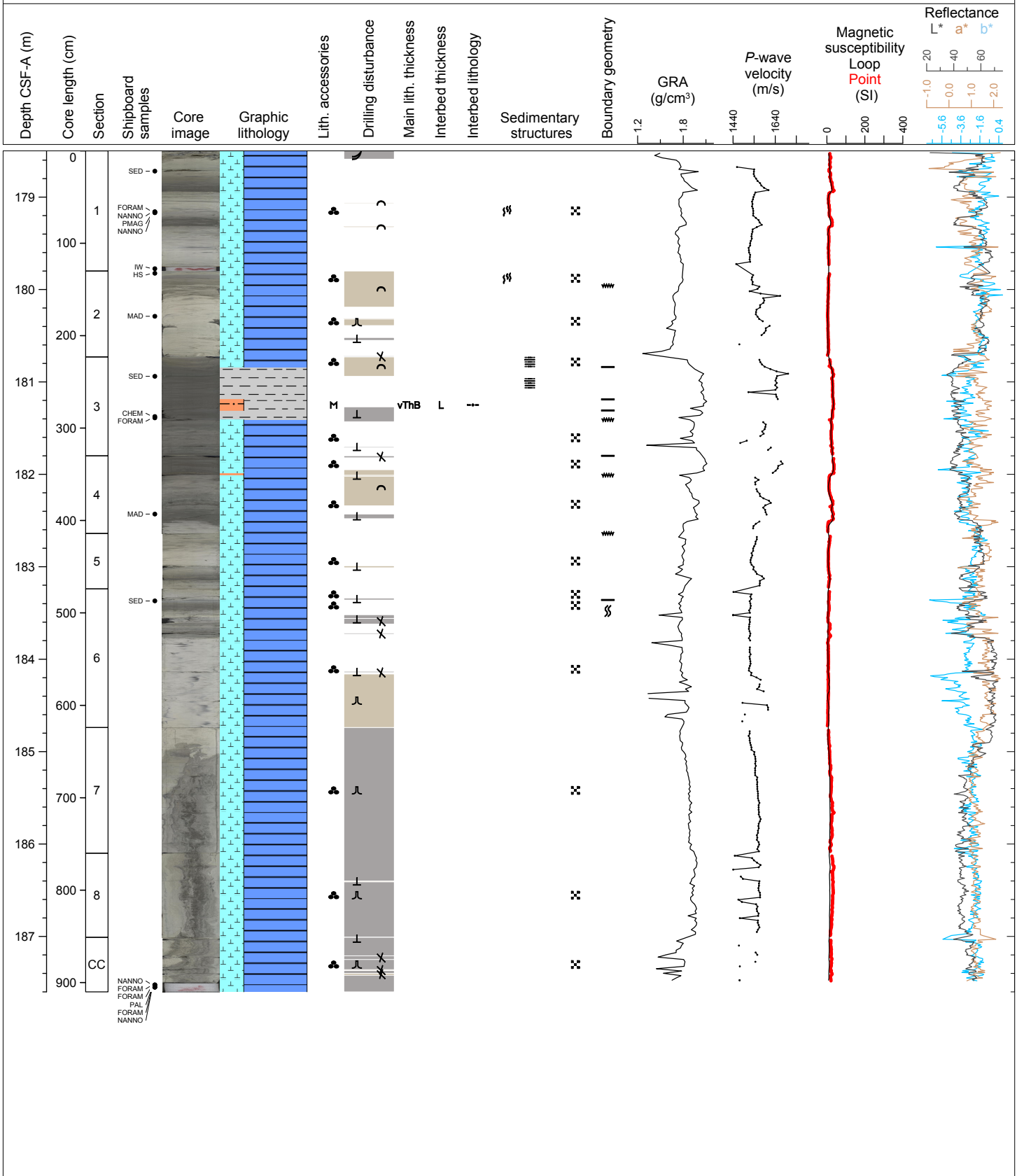
Hole 354-U1451A Core 28H, Interval 169.0-176.0 m (CSF-A)

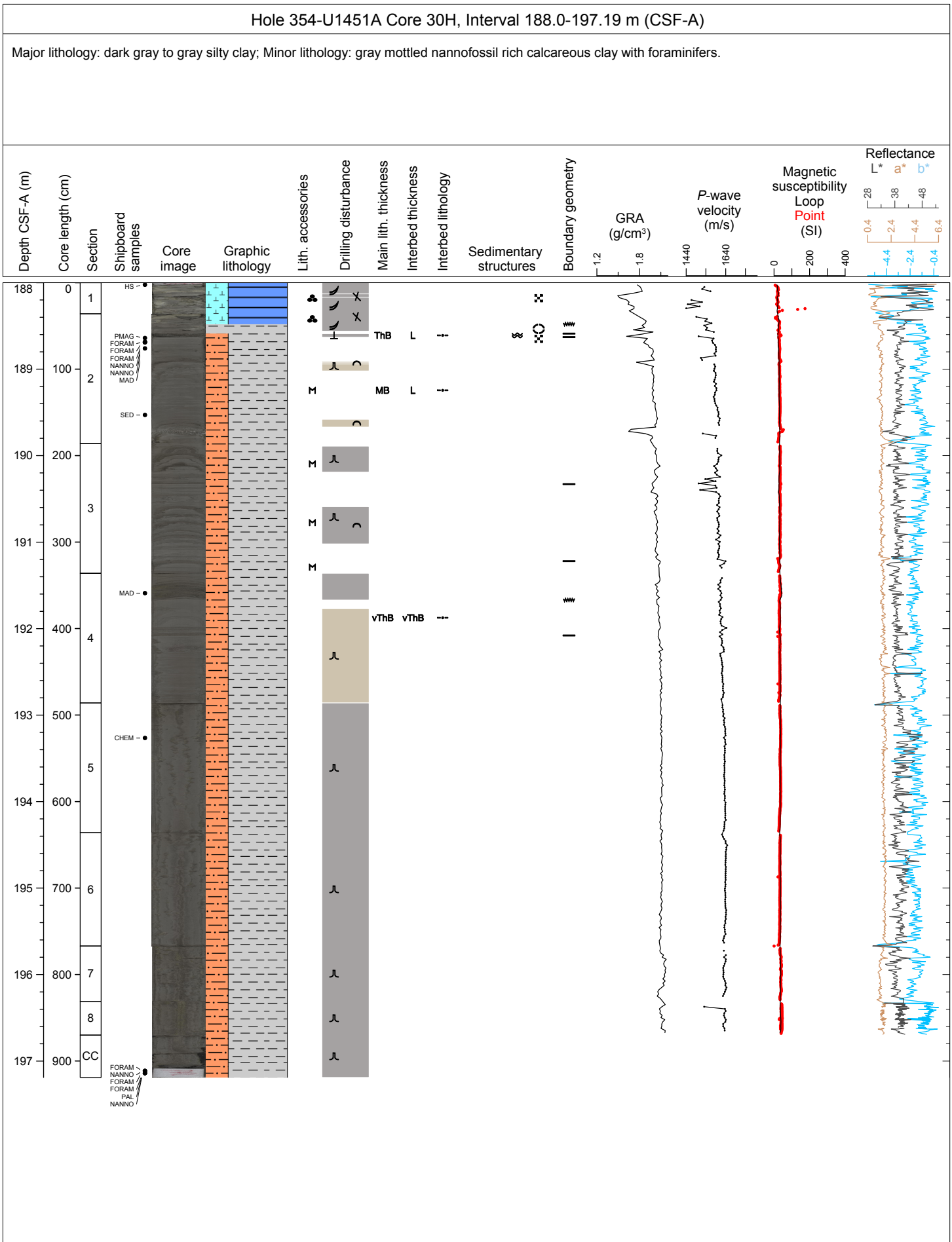
Major lithology: light gray to white bioturbated mottled nannofossil rich calcareous clay; Minor lithology: dark gray to green mottled clay with nannofossils.



Hole 354-U1451A Core 29H, Interval 178.5-187.6 m (CSF-A)

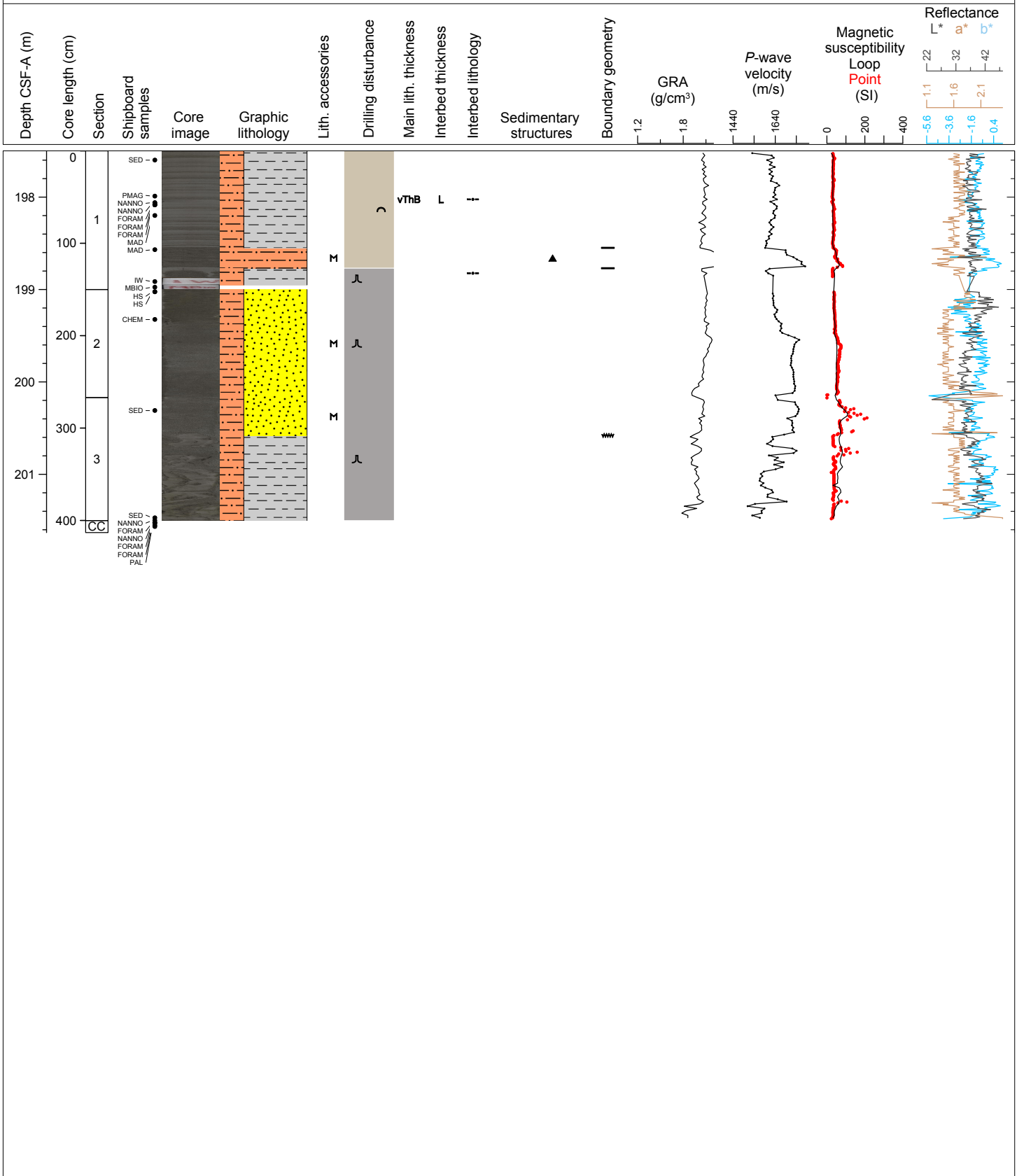
Major lithology: white to dark gray bioturbated mottled nannofossil rich calcareous clay with foraminifera; Minor lithology: dark gray clay.

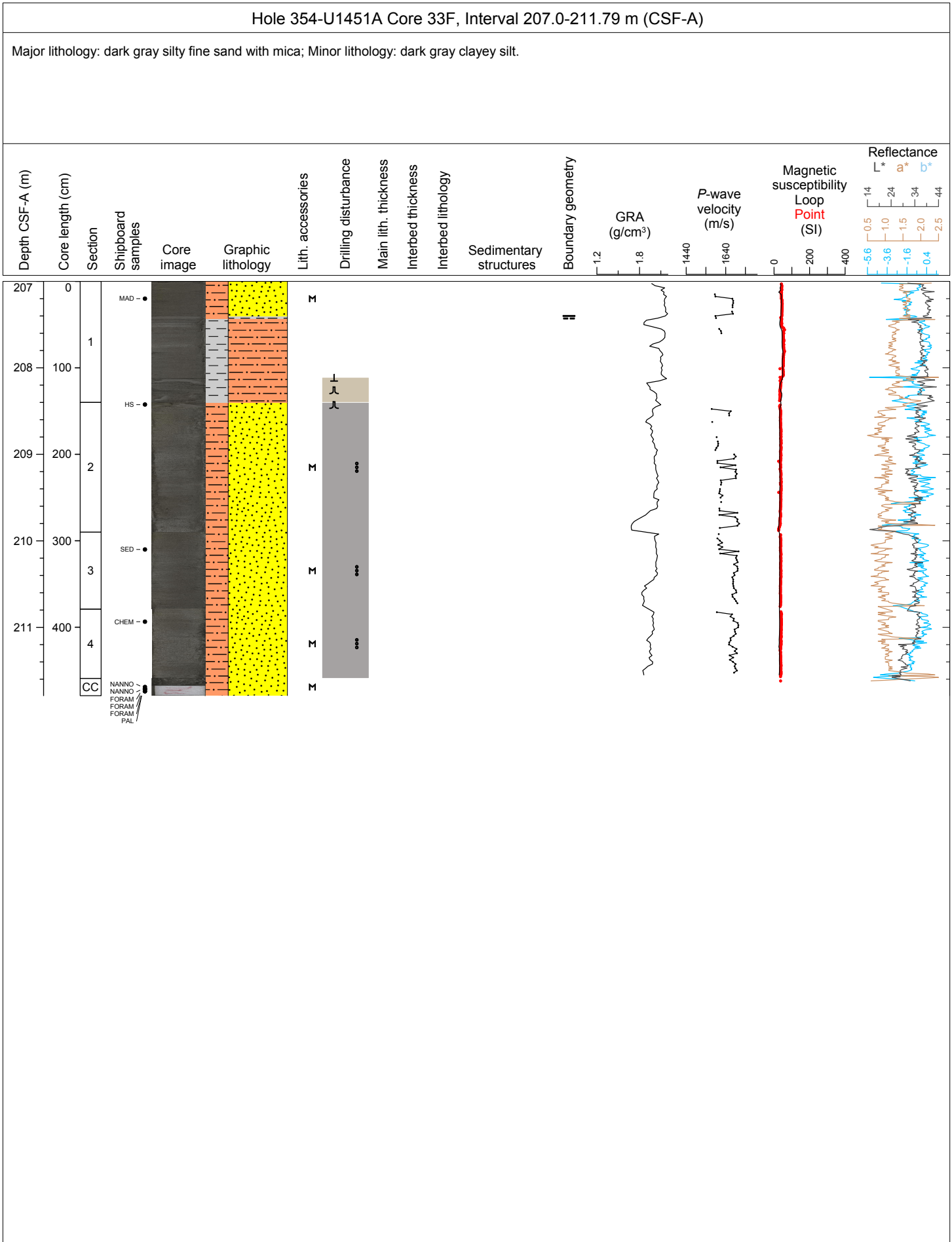




Hole 354-U1451A Core 31F, Interval 197.5-201.63 m (CSF-A)

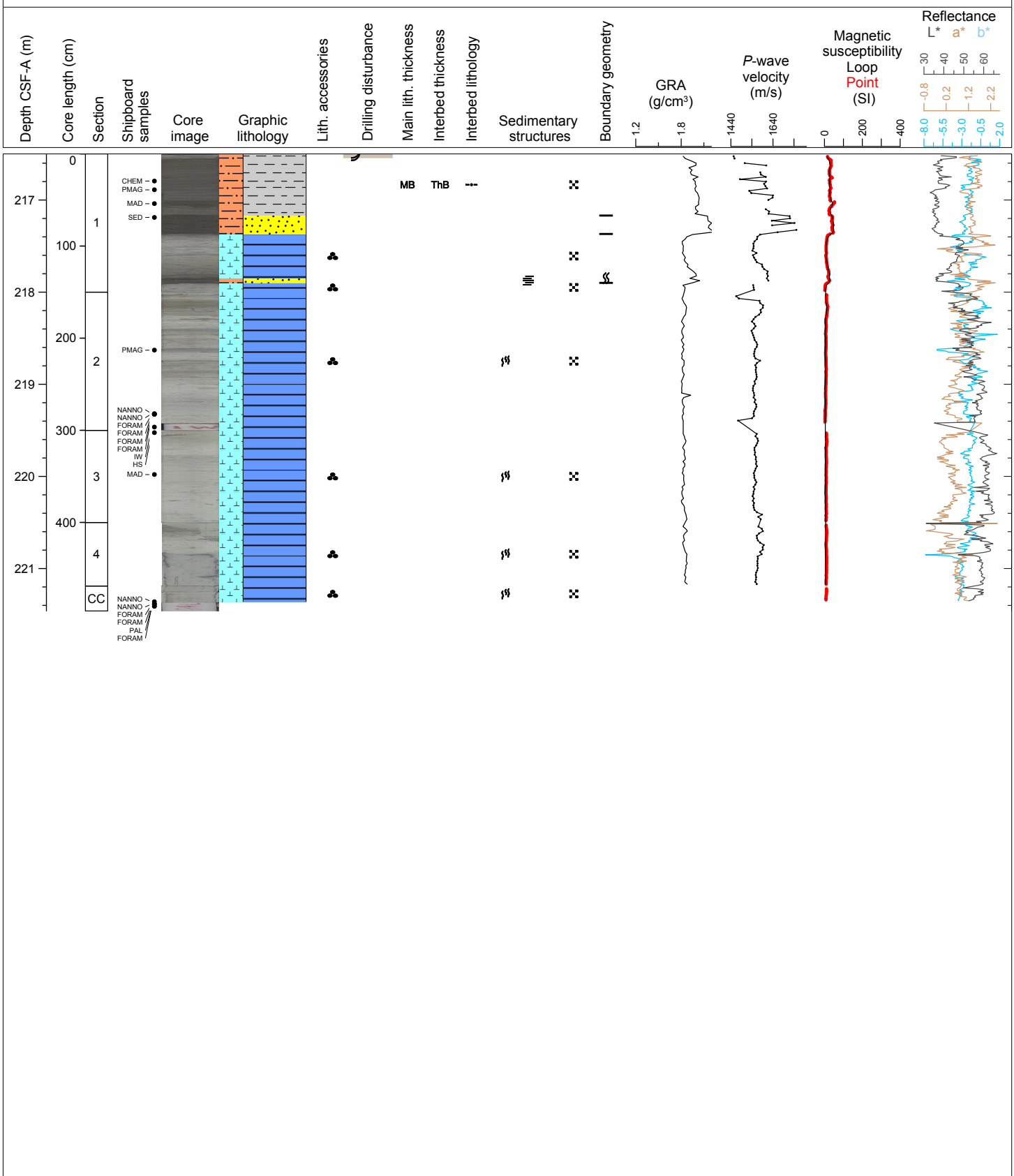
Major lithology: very-thin bedded to laminated fining-up sequences from dark gray silt to gray silty clay; Minor lithology: dark gray silty fine sand





Hole 354-U1451A Core 35F, Interval 216.5-221.46 m (CSF-A)

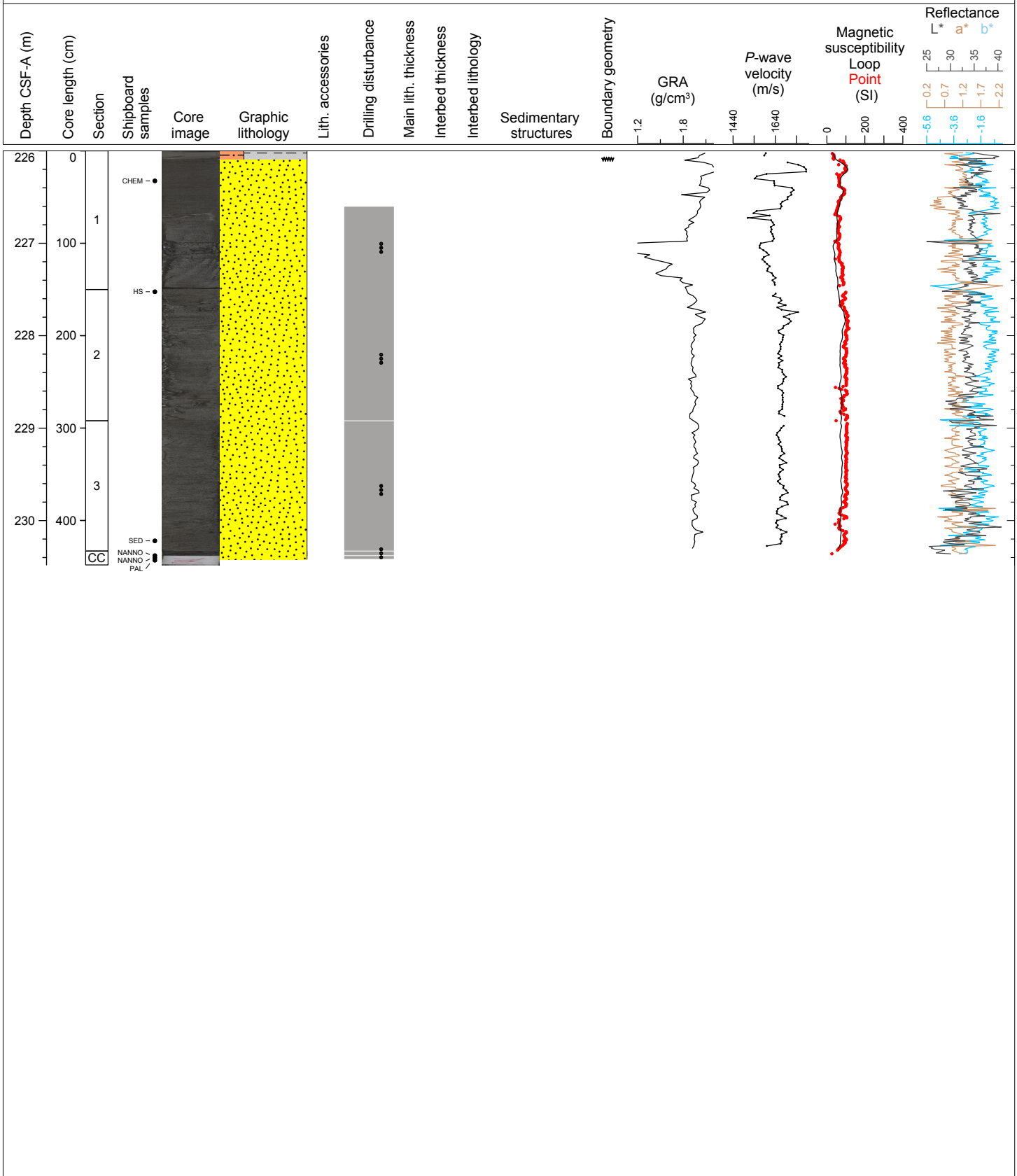
Major lithology: white bioturbated mottled nannofossil rich calcareous clay with foraminifers; Minor lithology: gray mottled silty clay and dark gray parallel laminated silty sand.

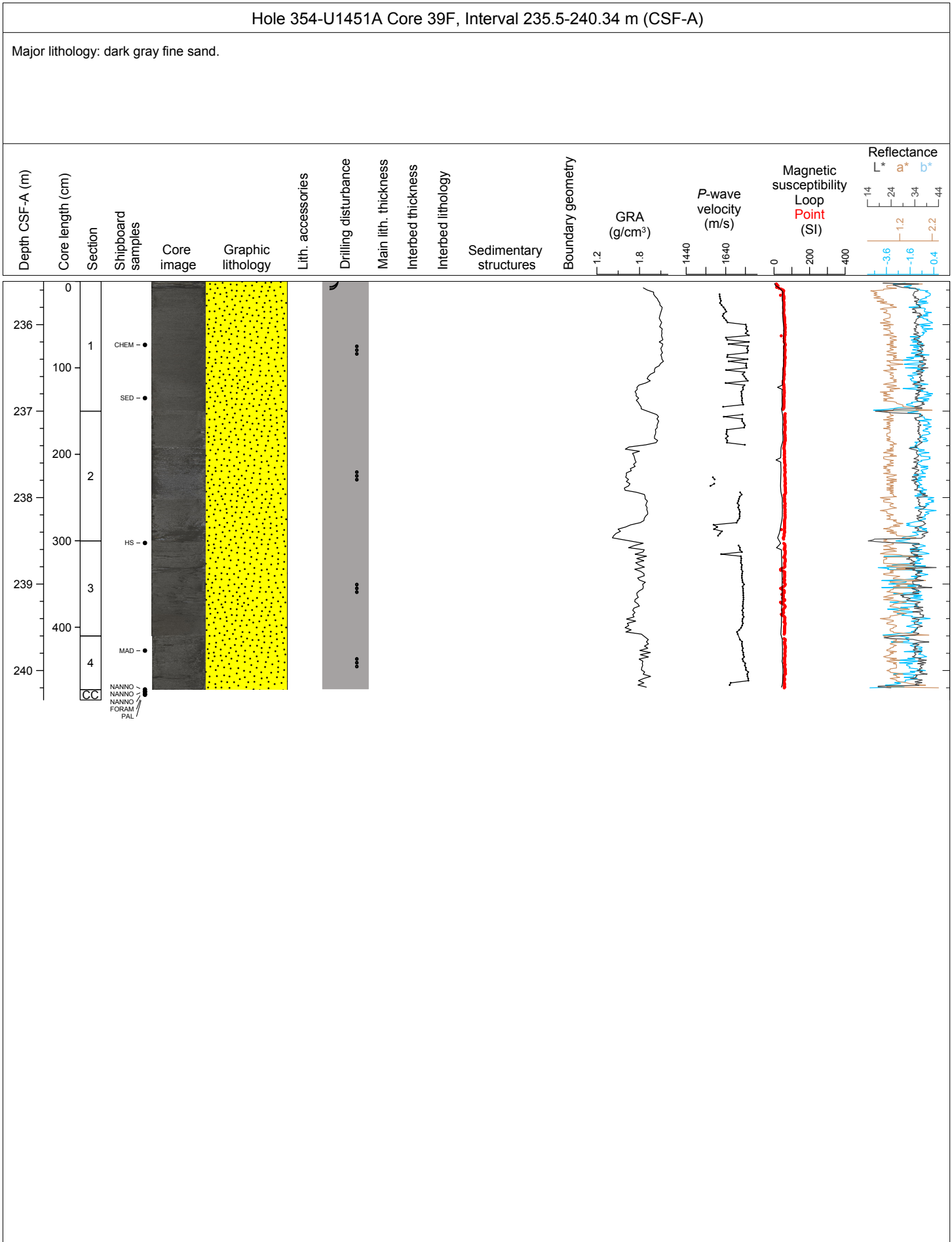


U1451A-361 Drilled interval

Hole 354-U1451A Core 37F, Interval 226.0-230.48 m (CSF-A)

Major lithology: dark gray fine sand; Minor lithology: gray silty clay.

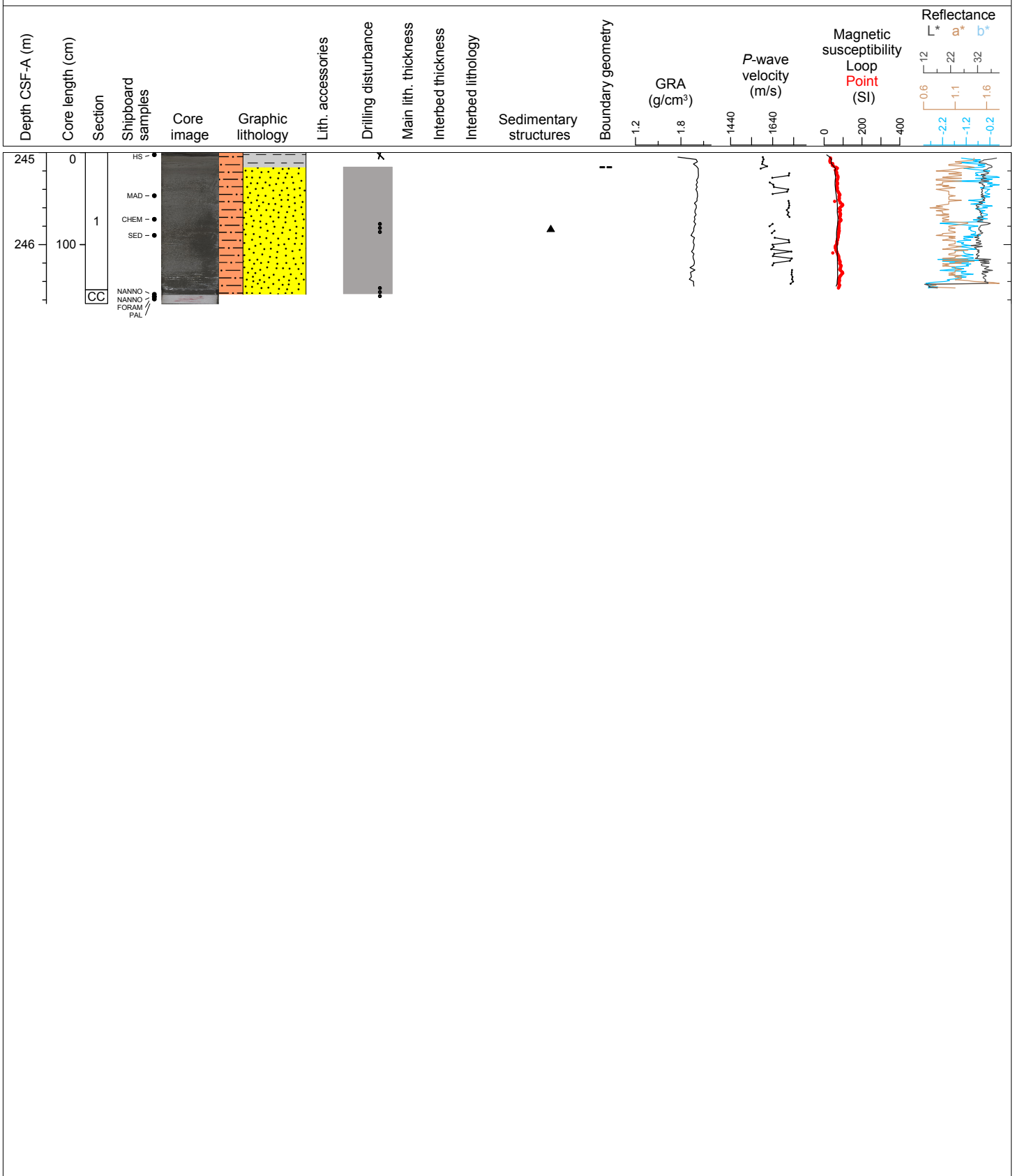




U1451A-401 Drilled interval

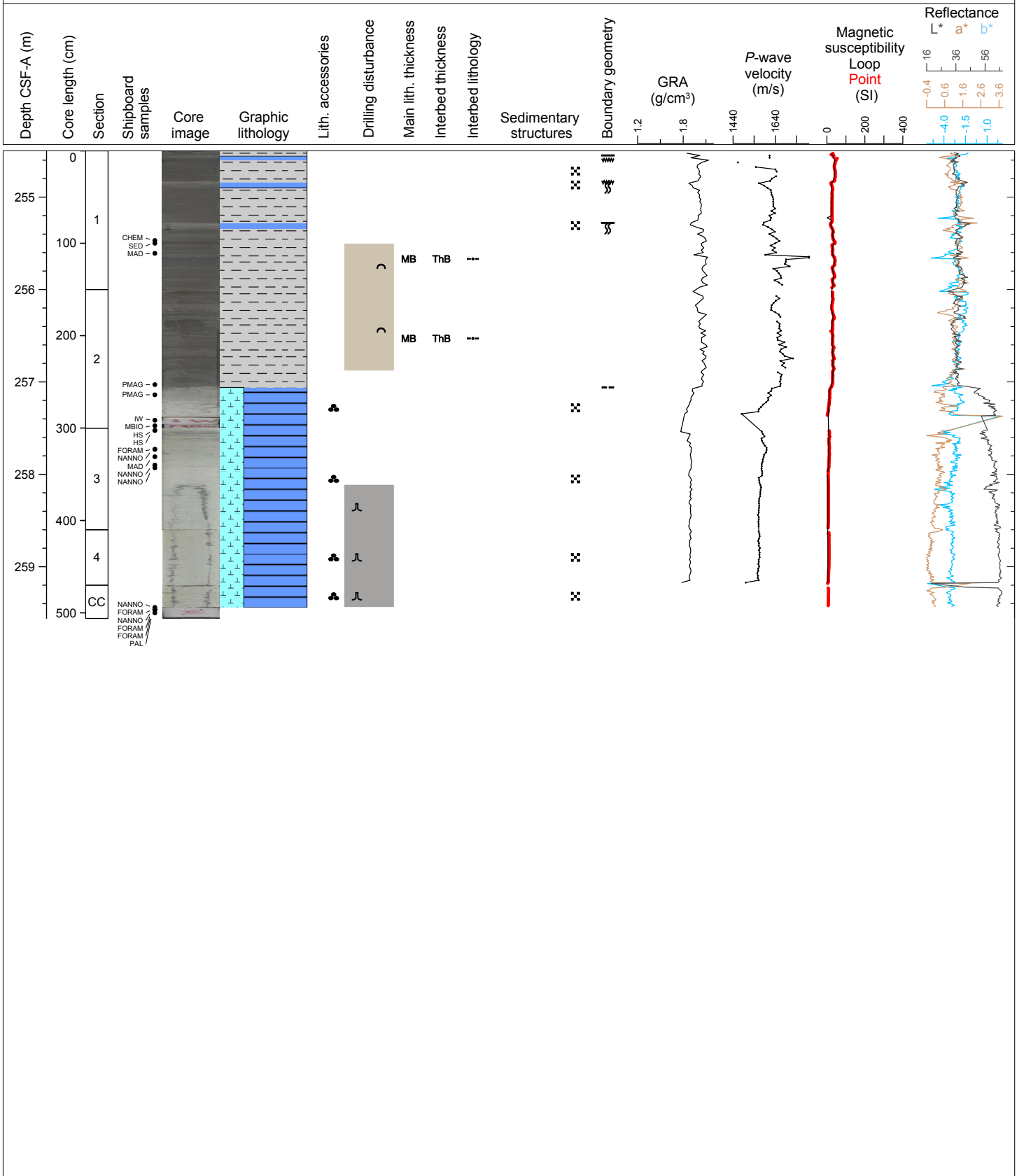
Hole 354-U1451A Core 41F, Interval 245.0-246.64 m (CSF-A)

Major lithology: dark gray normally graded silty fine sand; Minor lithology: gray silty clay.



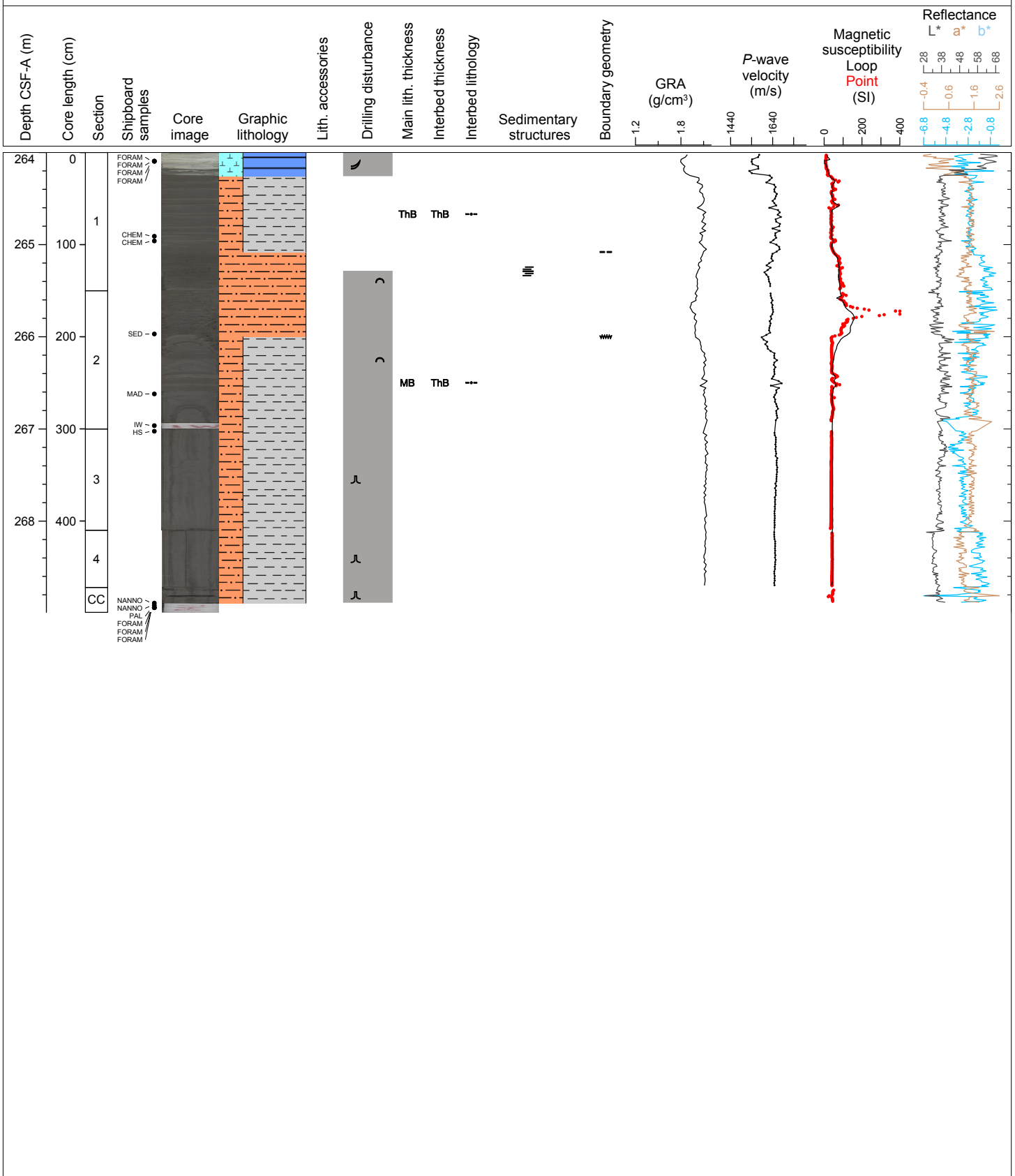
Hole 354-U1451A Core 43F, Interval 254.5-259.56 m (CSF-A)

Major lithology: light gray to white mottled nannofossil rich calcareous clay with foraminifers. Minor lithology: dark gray mottled clay.



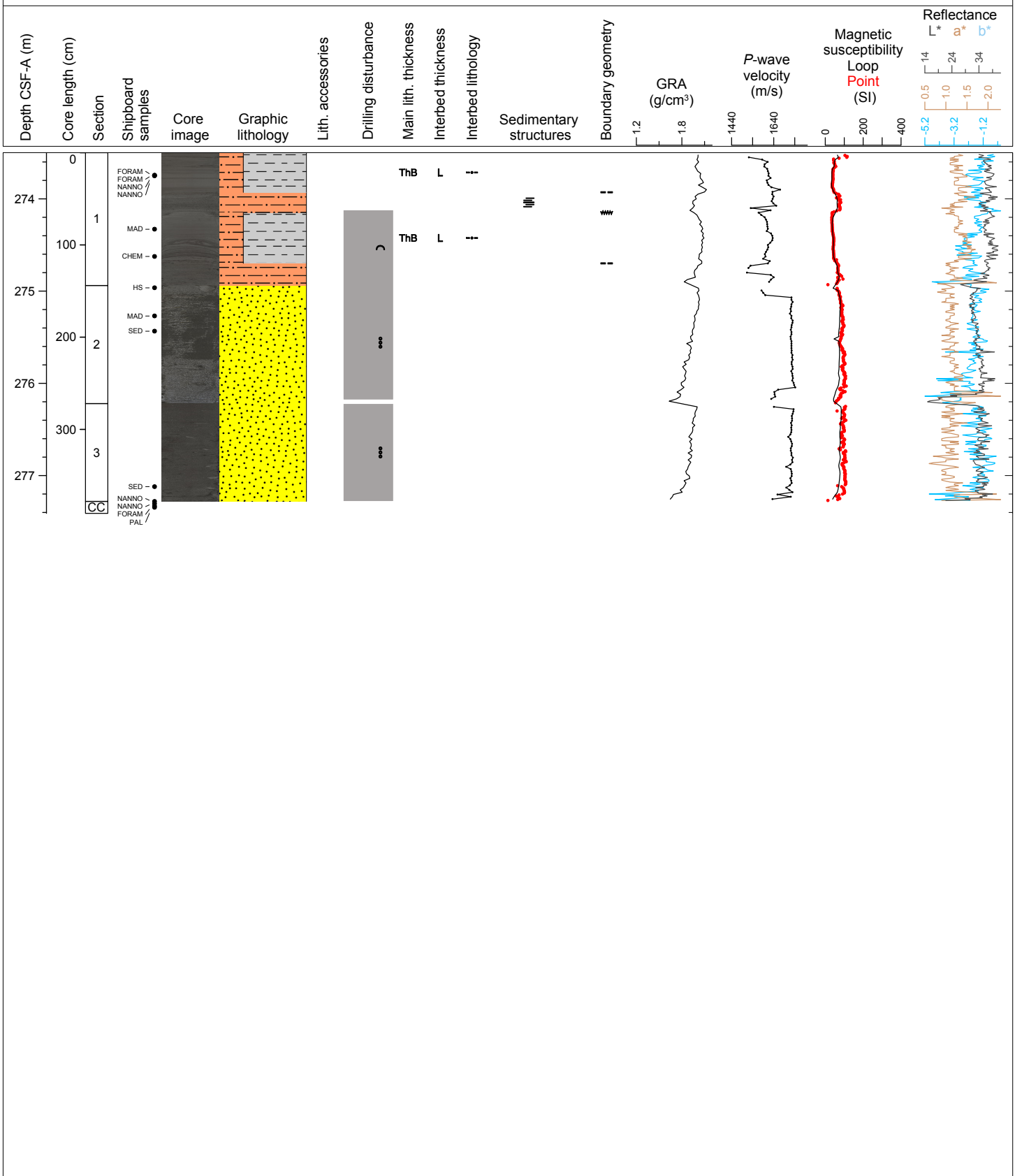
Hole 354-U1451A Core 45F, Interval 264.0-268.99 m (CSF-A)

Major lithology: gray silty clay; Minor lithology: gray parallel laminated silt and white nannofossil rich calcareous clay.



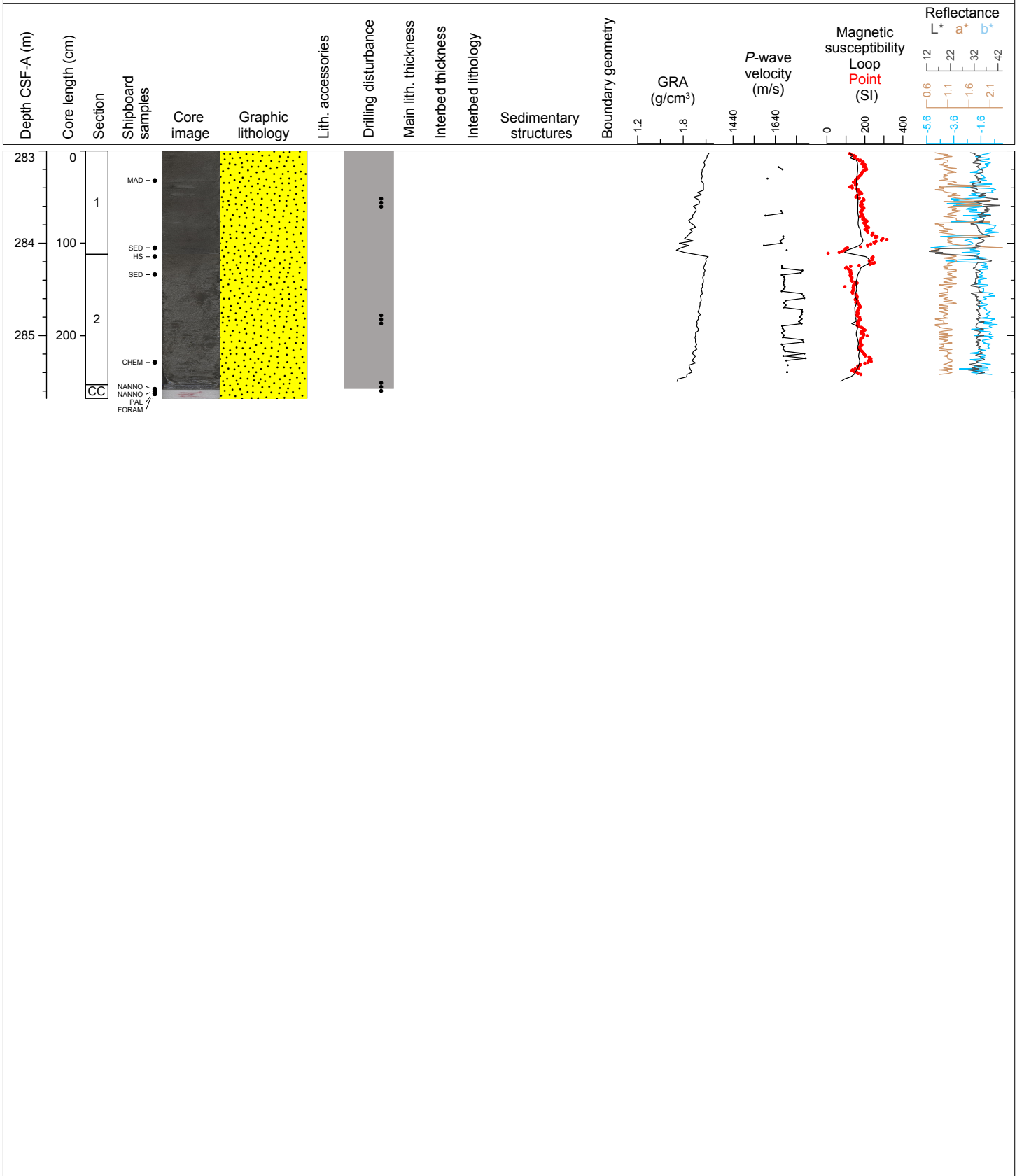
Hole 354-U1451A Core 47F, Interval 273.5-277.41 m (CSF-A)

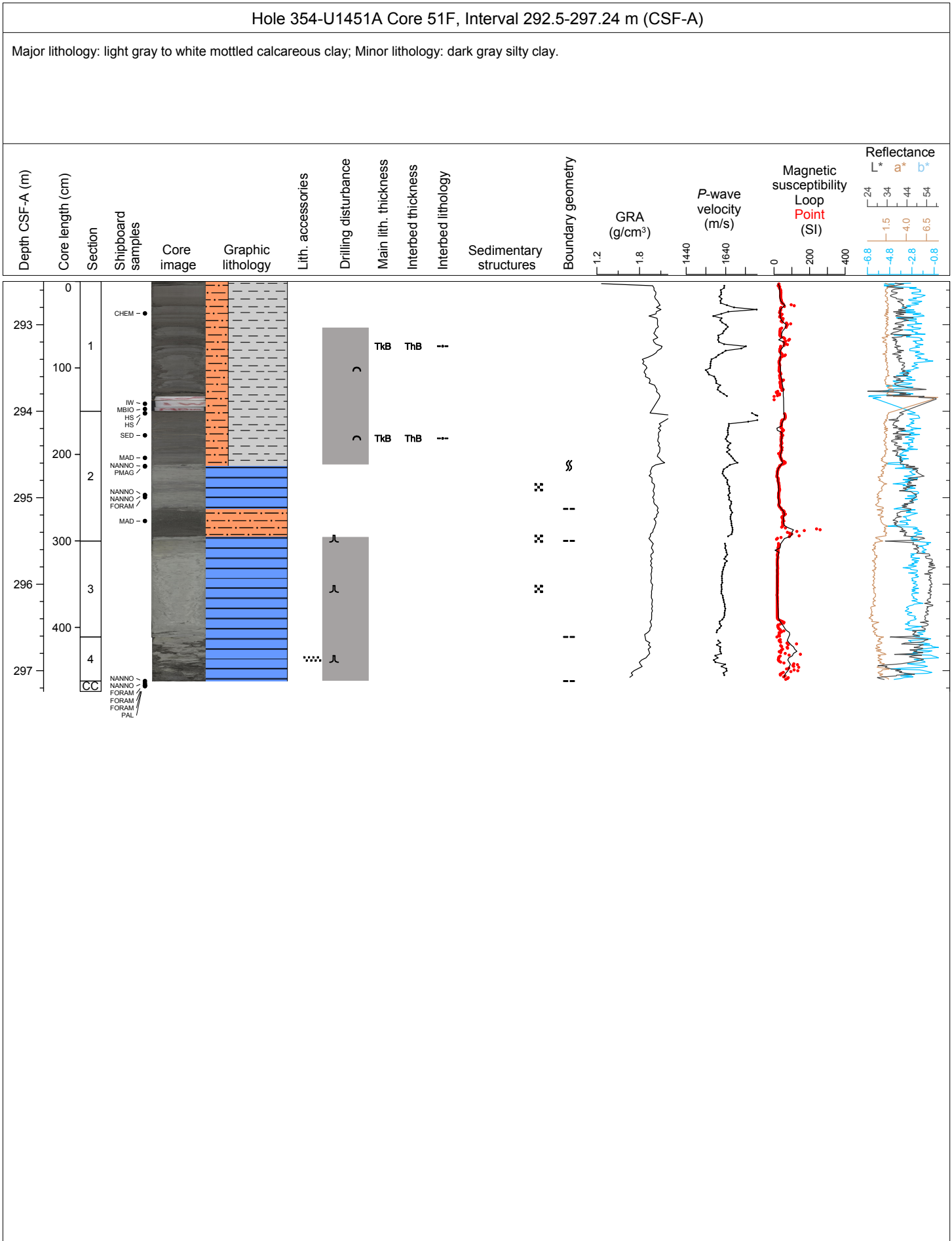
Major lithology: dark gray fine sand; Minor lithology: dark gray silty clay and dark gray parallel laminated silt.

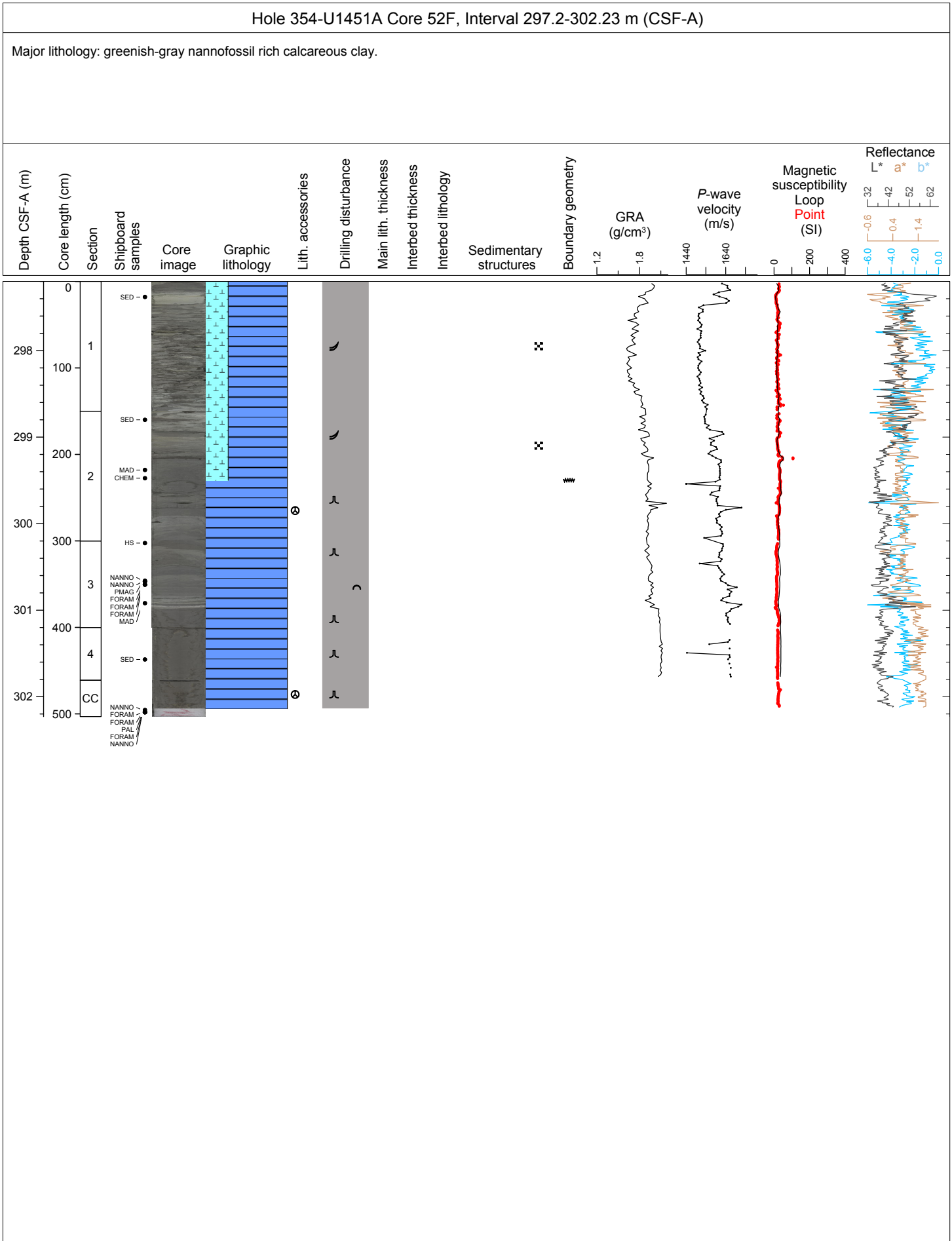


Hole 354-U1451A Core 49F, Interval 283.0-285.68 m (CSF-A)

Major lithology: dark gray fine sand.

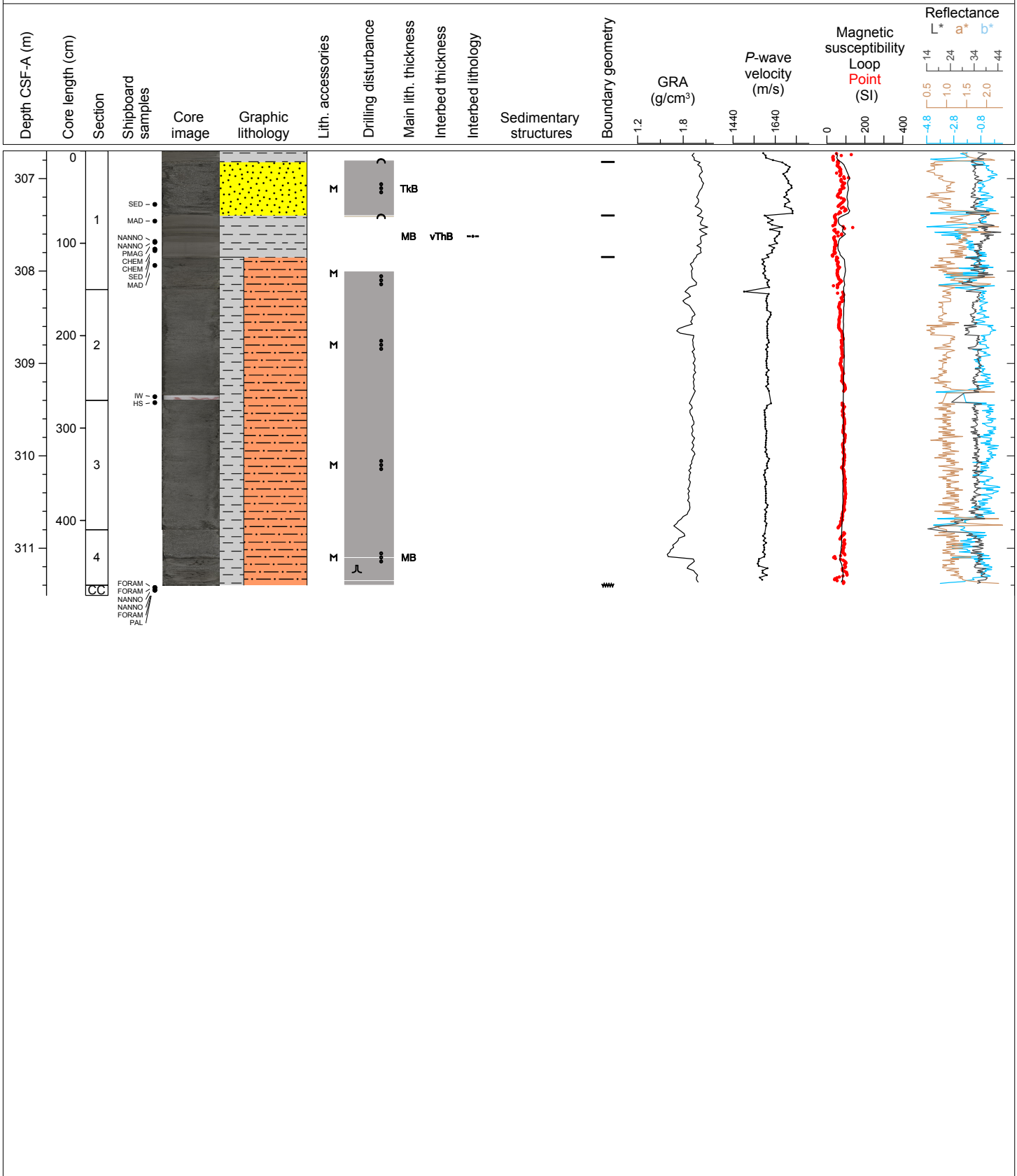


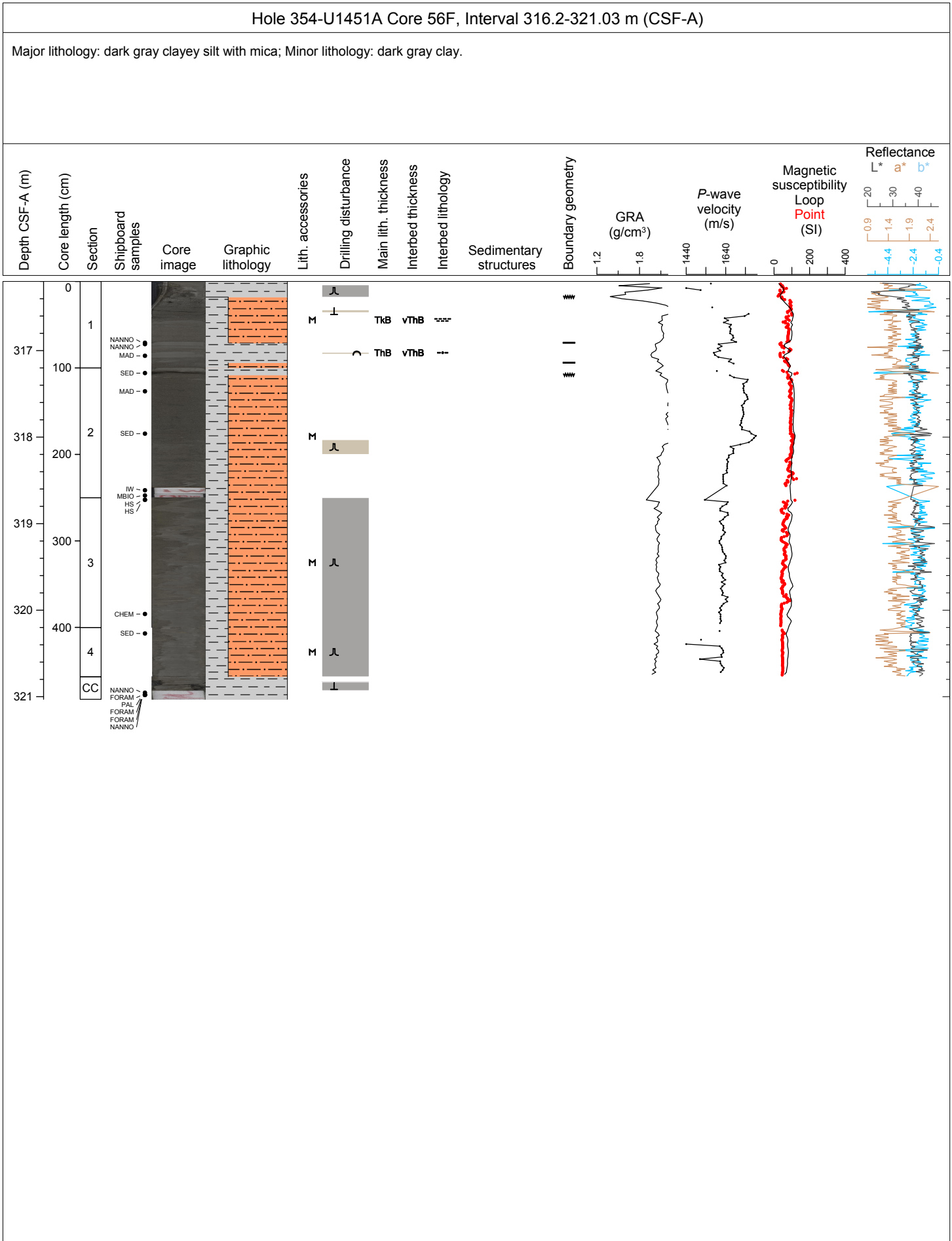




Hole 354-U1451A Core 54F, Interval 306.7-311.51 m (CSF-A)

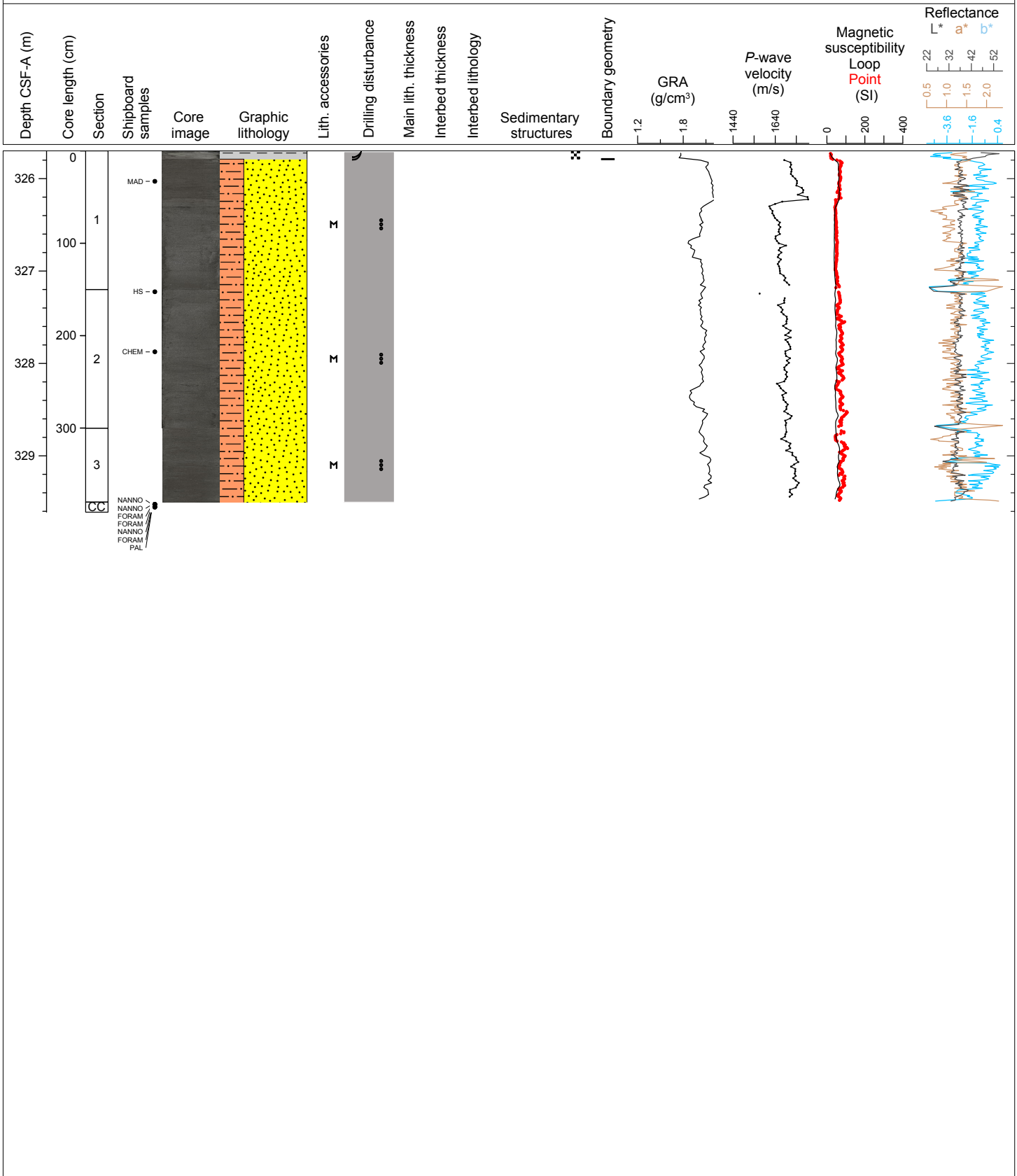
Major Lithology: dark gray clayey silt with mica; Minor lithology: dark gray clay and dark gray fine sand.





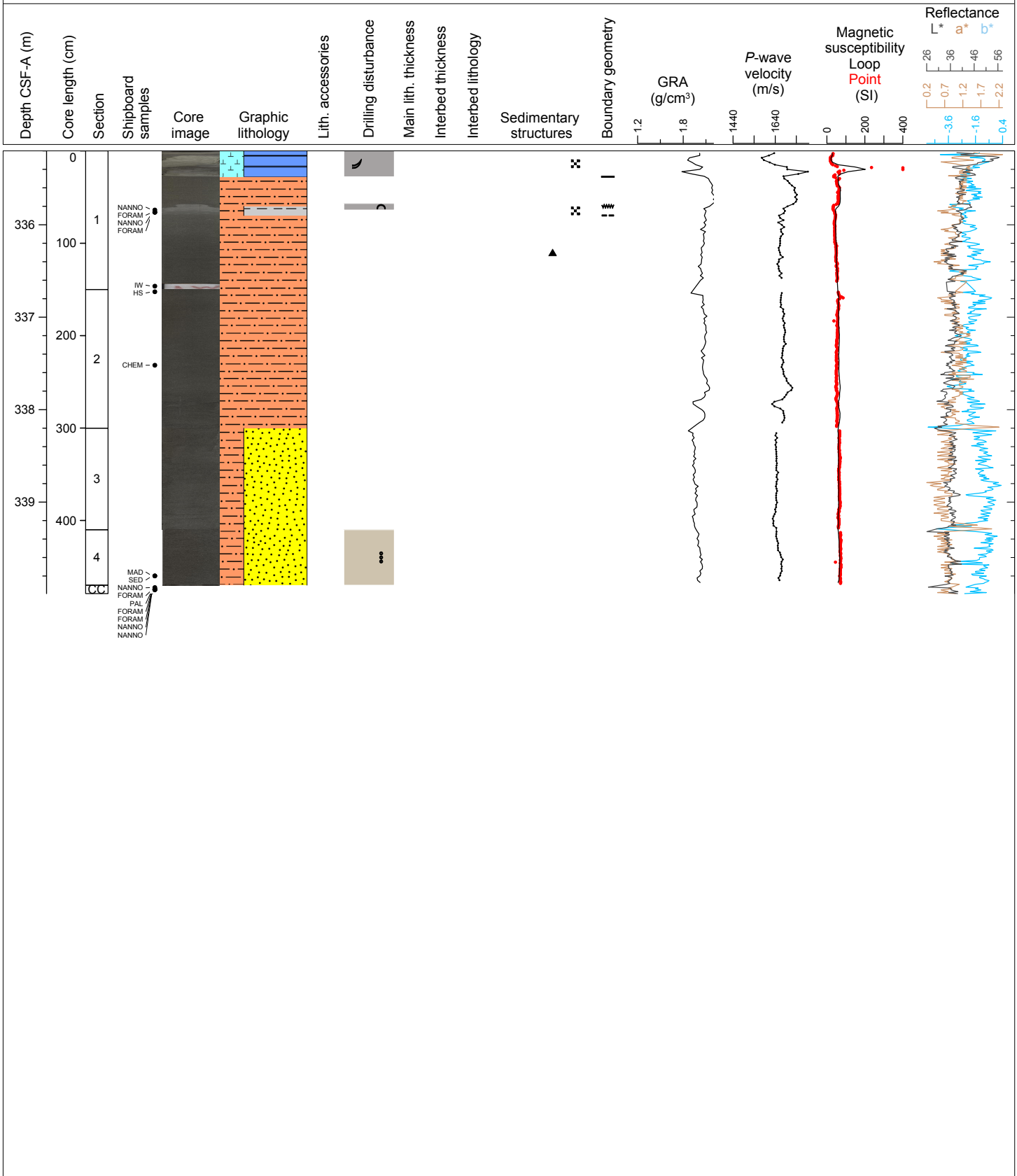
Hole 354-U1451A Core 58F, Interval 325.7-329.61 m (CSF-A)

Major lithology: dark gray silty sand with mica; Minor lithology: light gray clay.



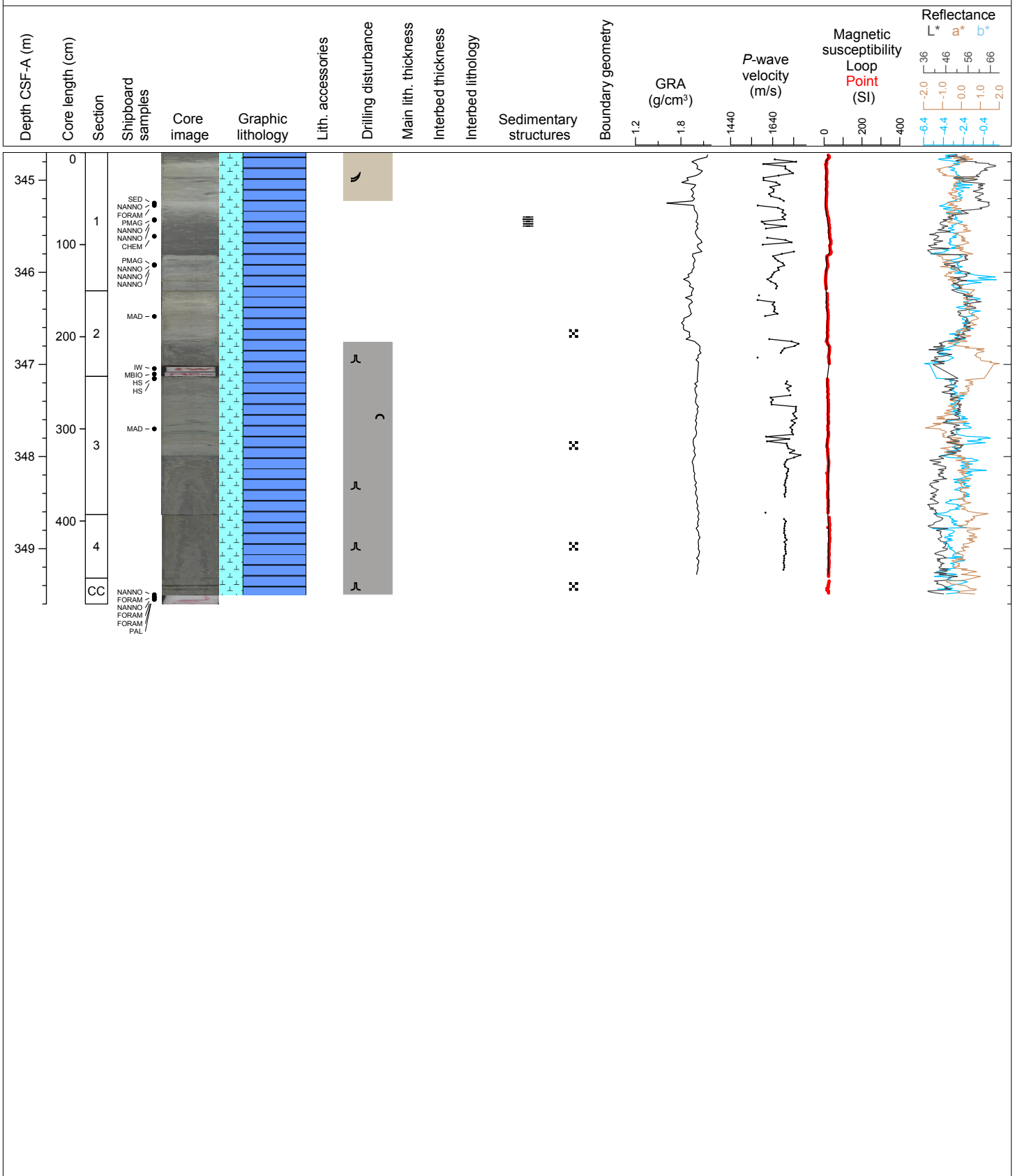
Hole 354-U1451A Core 60F, Interval 335.2-339.99 m (CSF-A)

Major lithology: dark gray silt sand; Minor lithology: white mottled nannofossil rich calcareous clay, dark gray silt and gray silty clay.



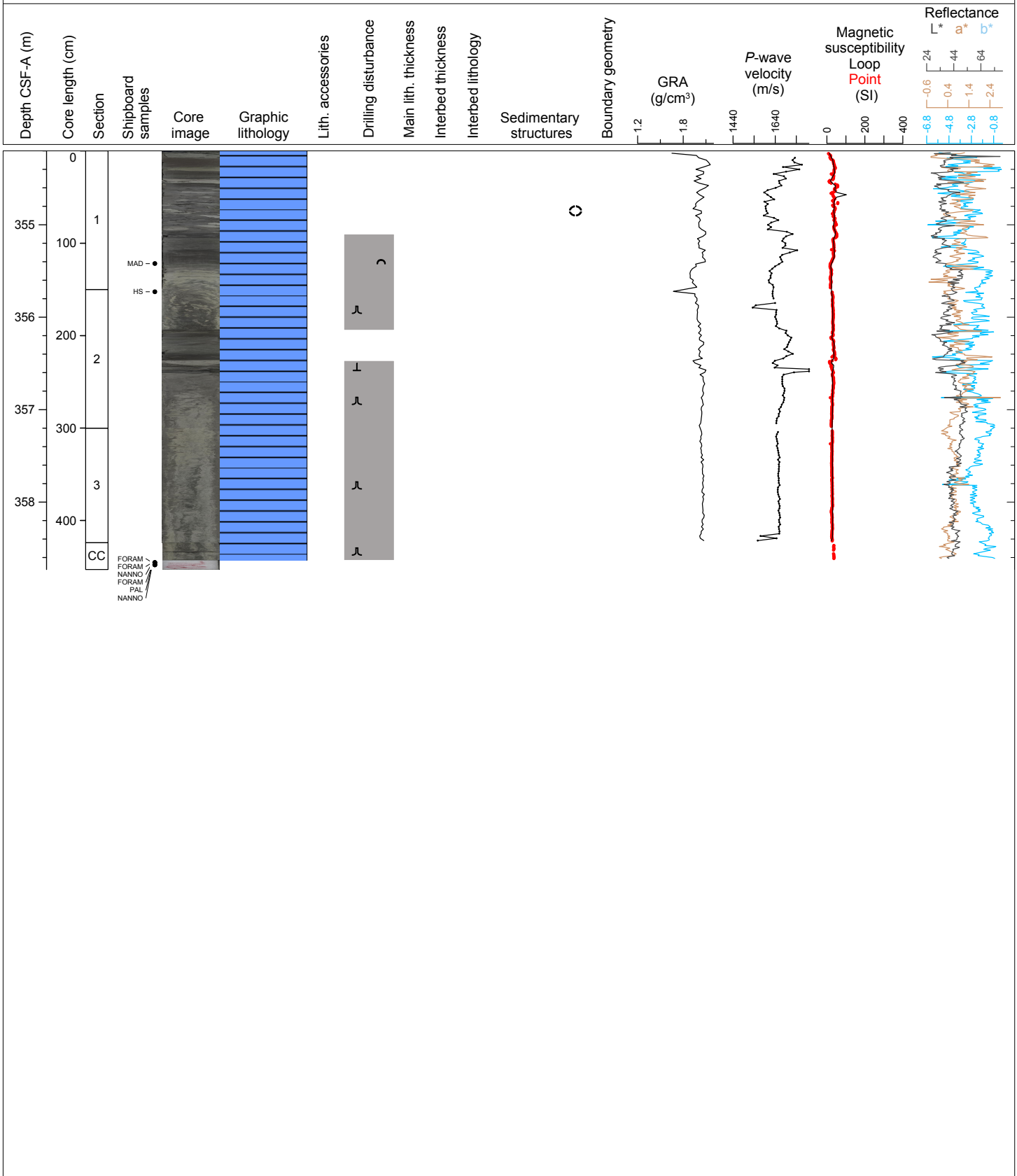
Hole 354-U1451A Core 62F, Interval 344.7-349.6 m (CSF-A)

Major lithology: light gray mottled nannofossil rich calcareous clay.



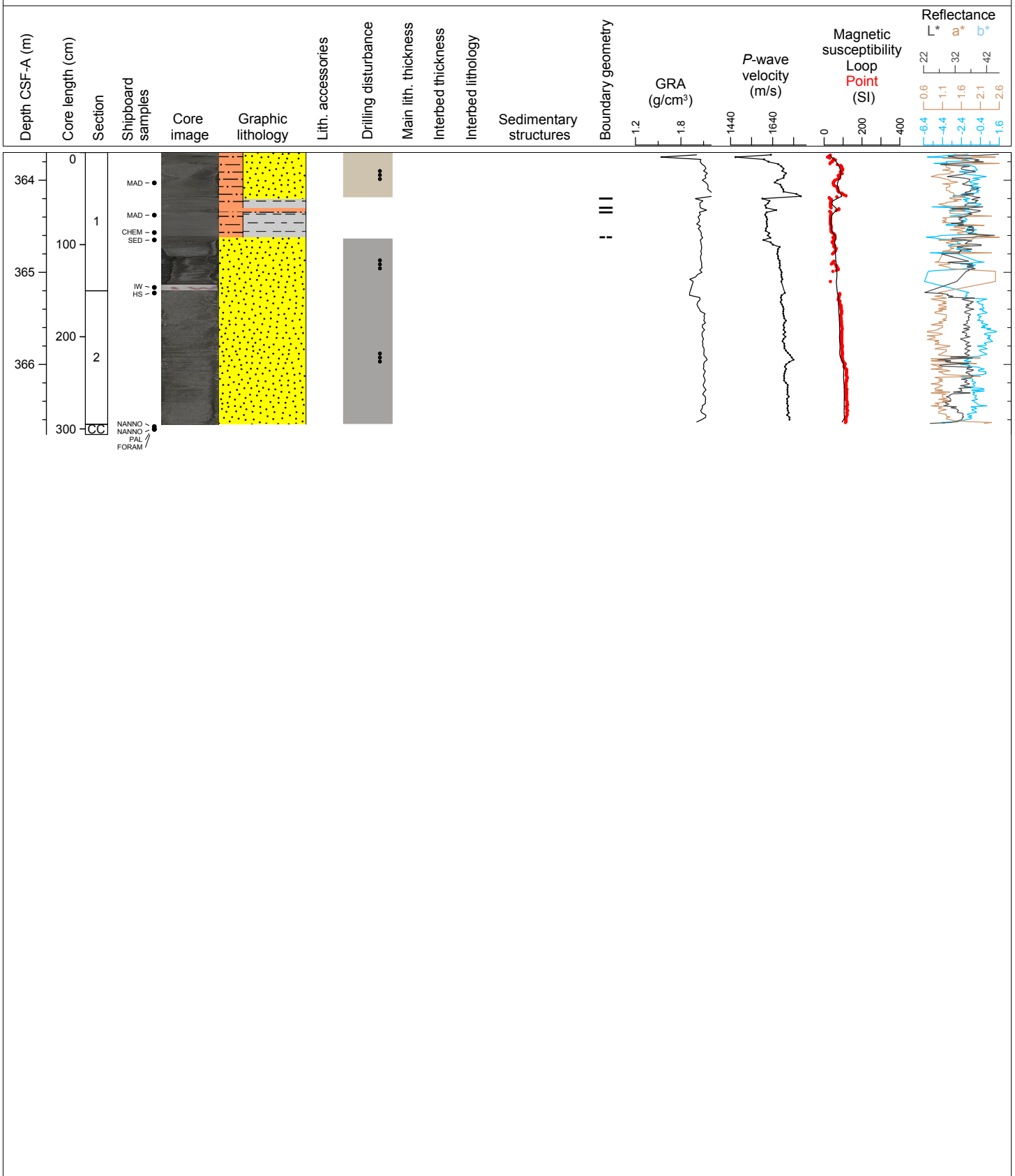
Hole 354-U1451A Core 64F, Interval 354.2-358.73 m (CSF-A)

Major lithology: light gray to gray calcareous clay; General comment: mud clasts embedded in a clay matrix at 64F-1 35-95 cm.



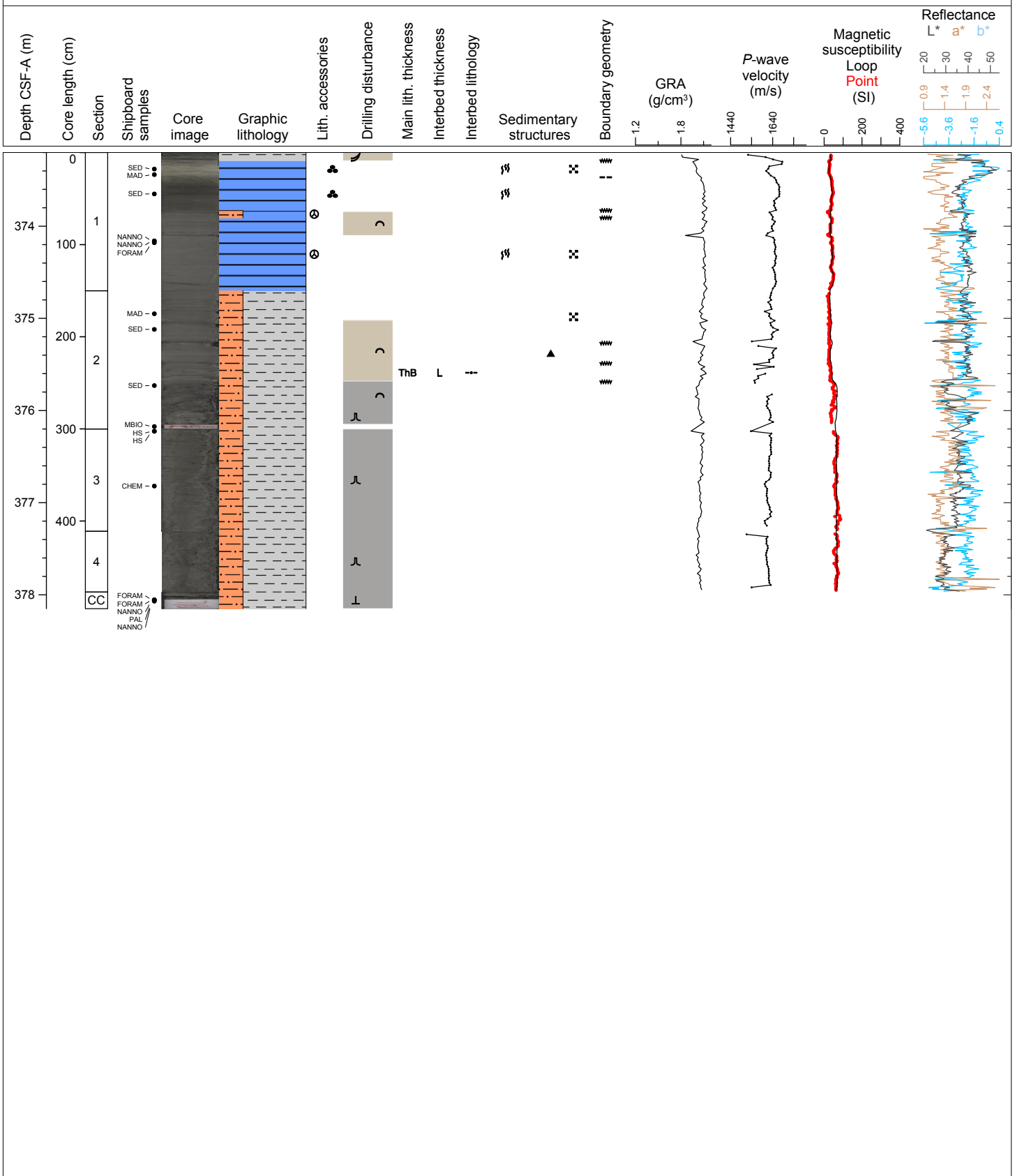
Hole 354-U1451A Core 66F, Interval 363.7-366.76 m (CSF-A)

Major lithology: dark gray silty sand; Minor lithology: dark gray silty clay and dark gray silt.



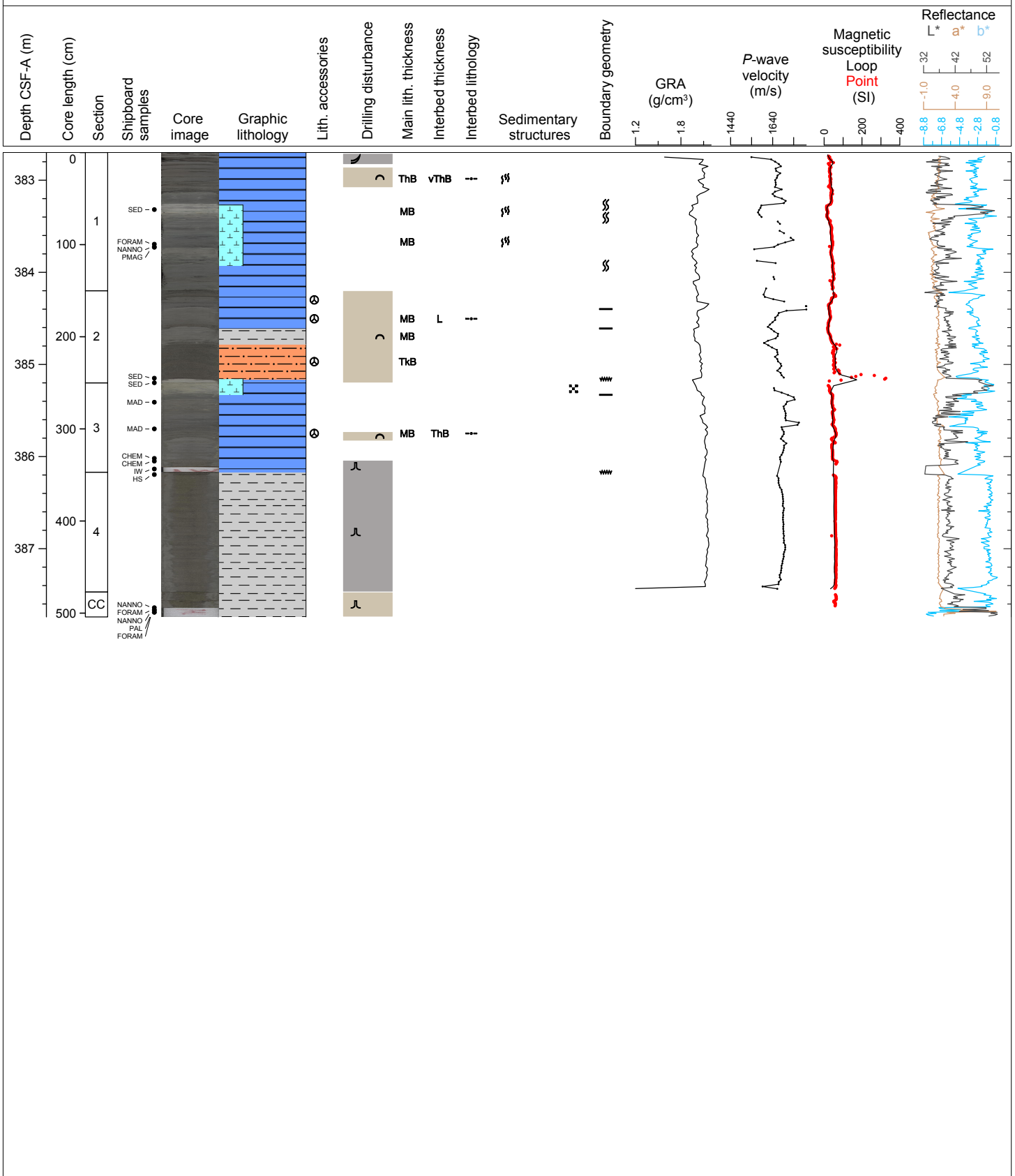
Hole 354-U1451A Core 68F, Interval 373.2-378.15 m (CSF-A)

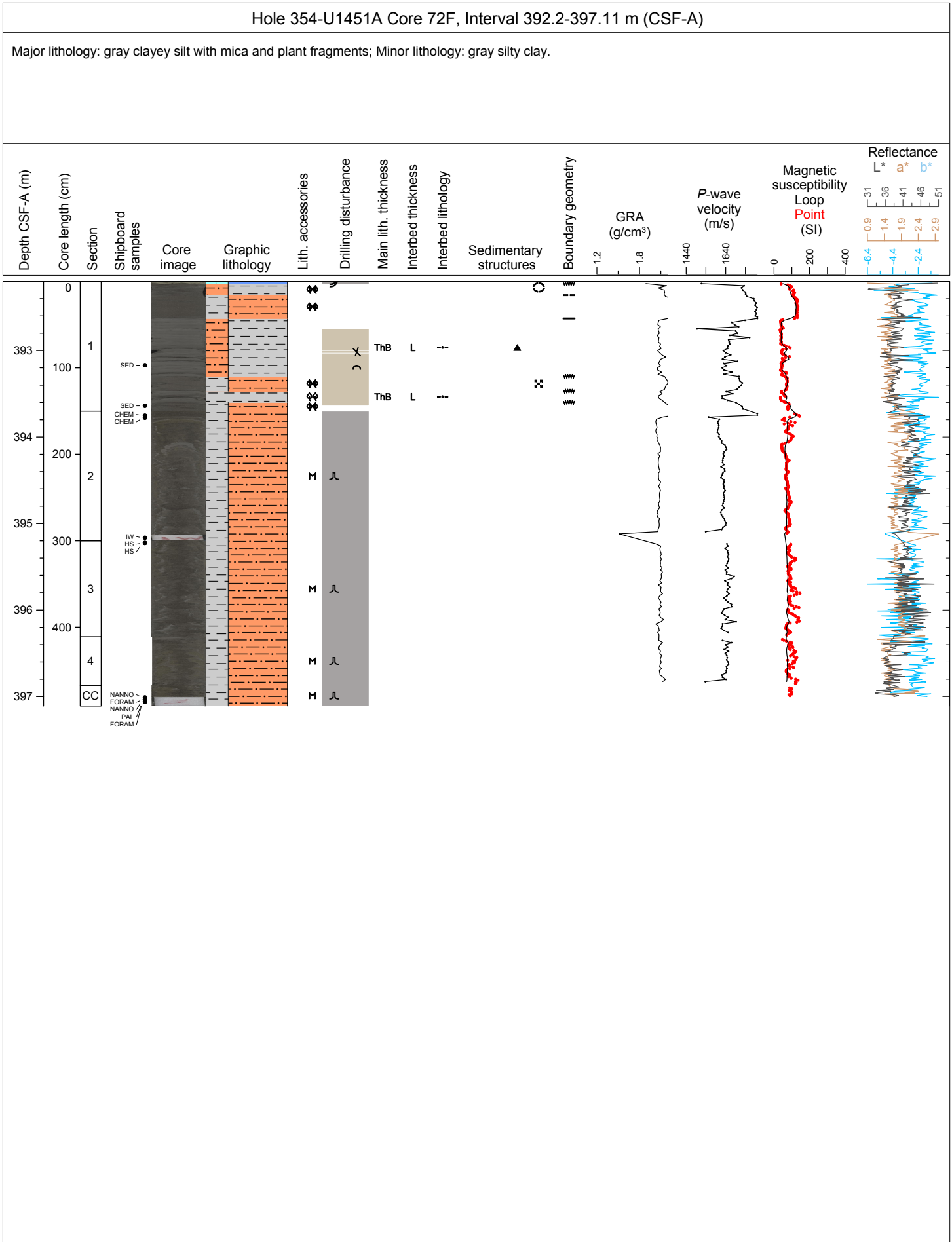
Major Lithology: gray silty clay; Minor lithology: greenish gray bioturbated mottled nannofossil-rich calcareous clay.



Hole 354-U1451A Core 70F, Interval 382.7-387.74 m (CSF-A)

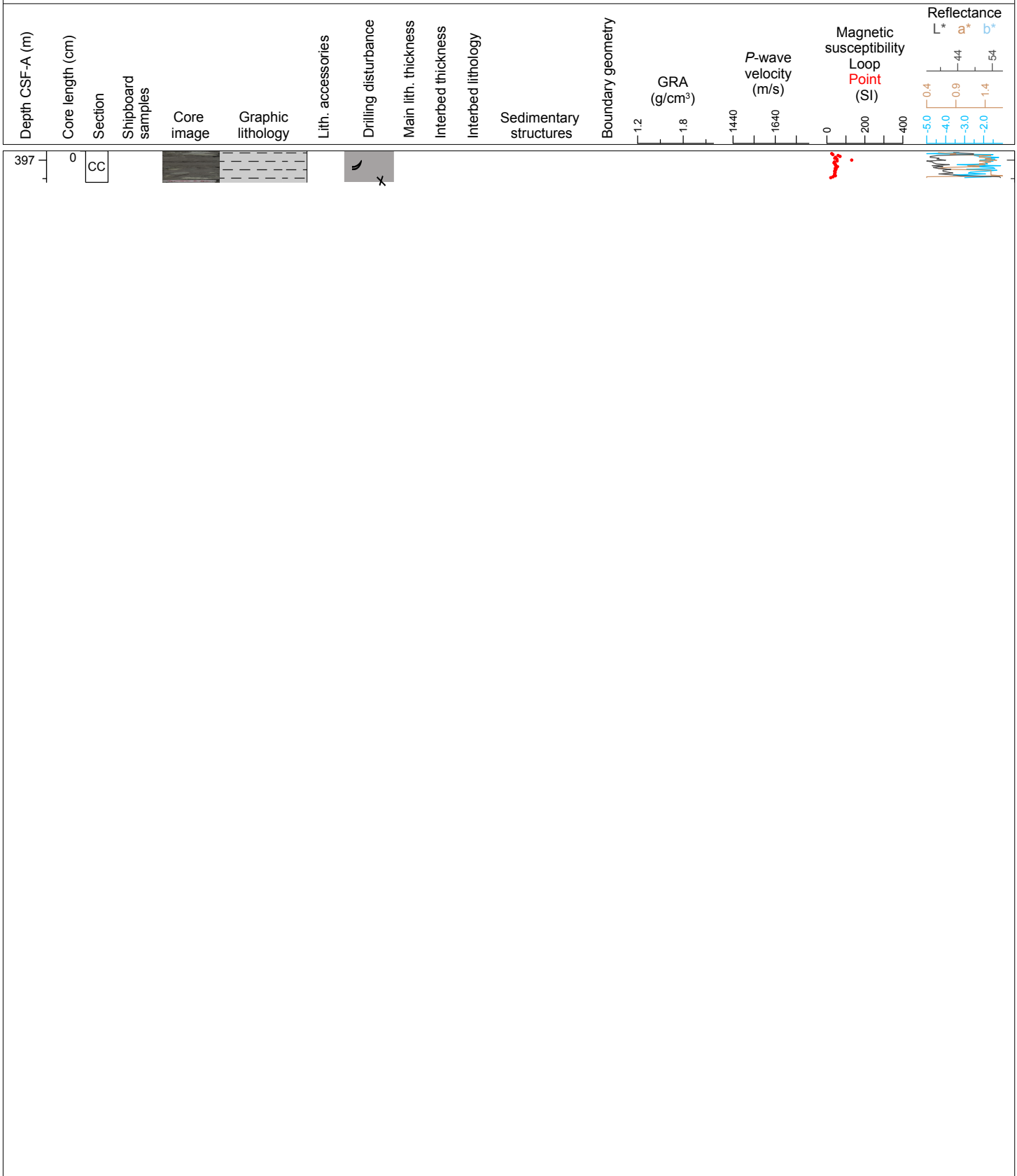
Major lithology: dark gray to white bioturbated nannofossils rich calcareous clay; Minor lithology: dark gray to gray clay.





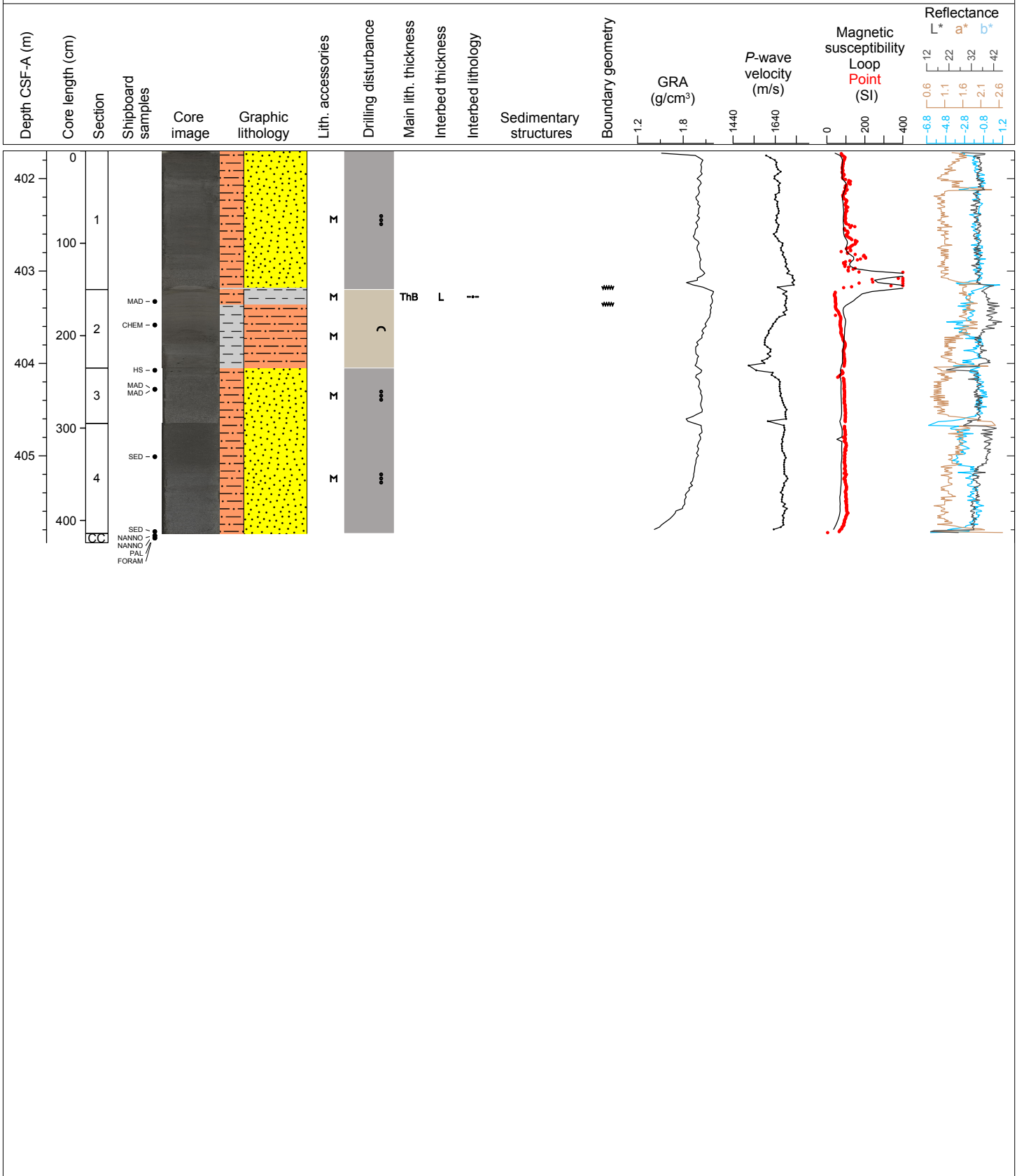
Hole 354-U1451A Core 731, Interval 396.9-397.24 m (CSF-A)

Major lithology: dark gray clay; General comment: white clay clast is scattered in the top and bottom portion.



Hole 354-U1451A Core 74F, Interval 401.7-405.94 m (CSF-A)

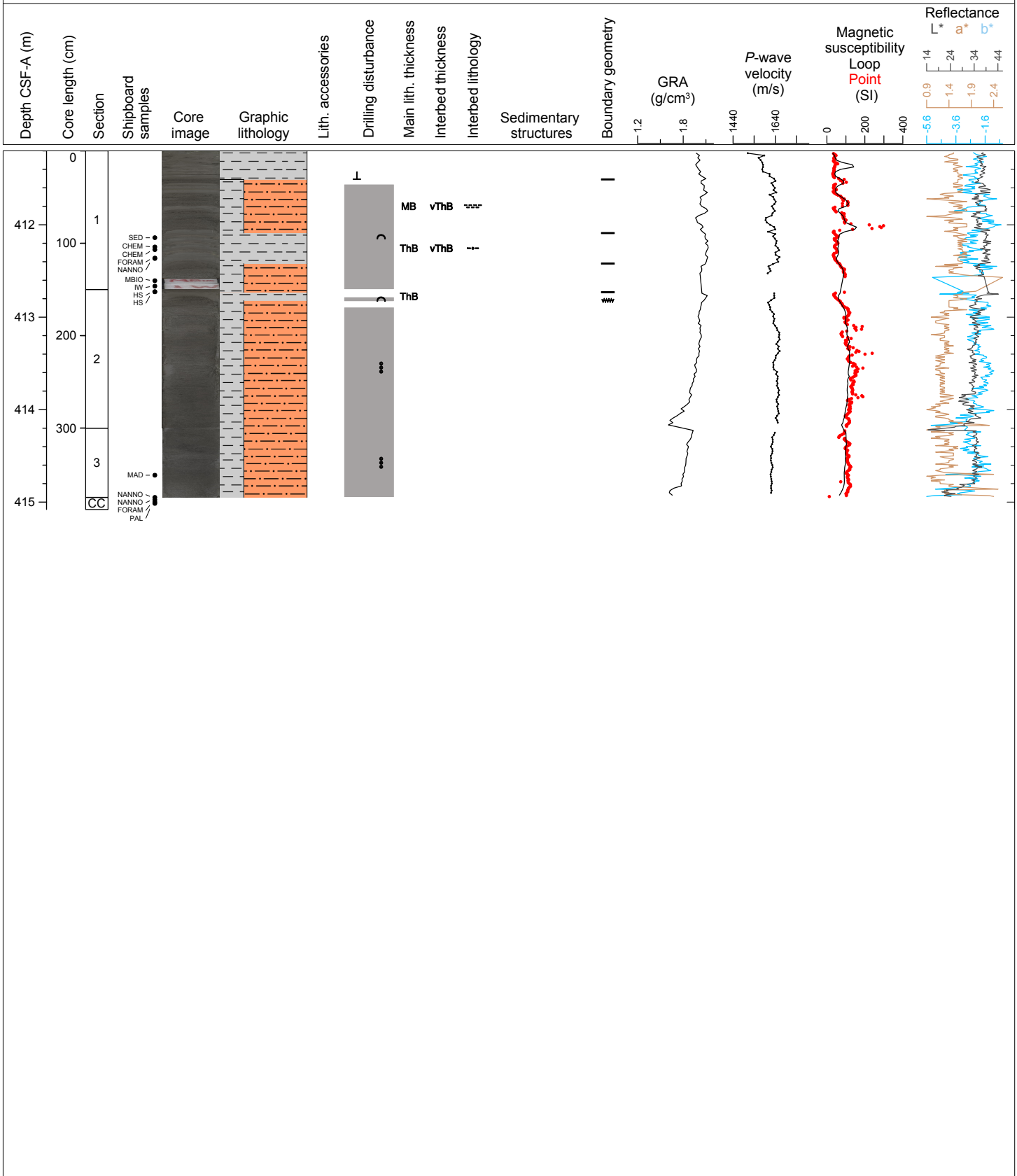
Major lithology: dark gray silty sand with mica; Minor lithology: dark gray clayey silt.



U1451A-751 Drilled interval

Hole 354-U1451A Core 76F, Interval 411.2-415.08 m (CSF-A)

Major lithology: dark gray clayey silt; Minor lithology: dark gray clay alternates with gray silt.



U1451A-771 Drilled interval

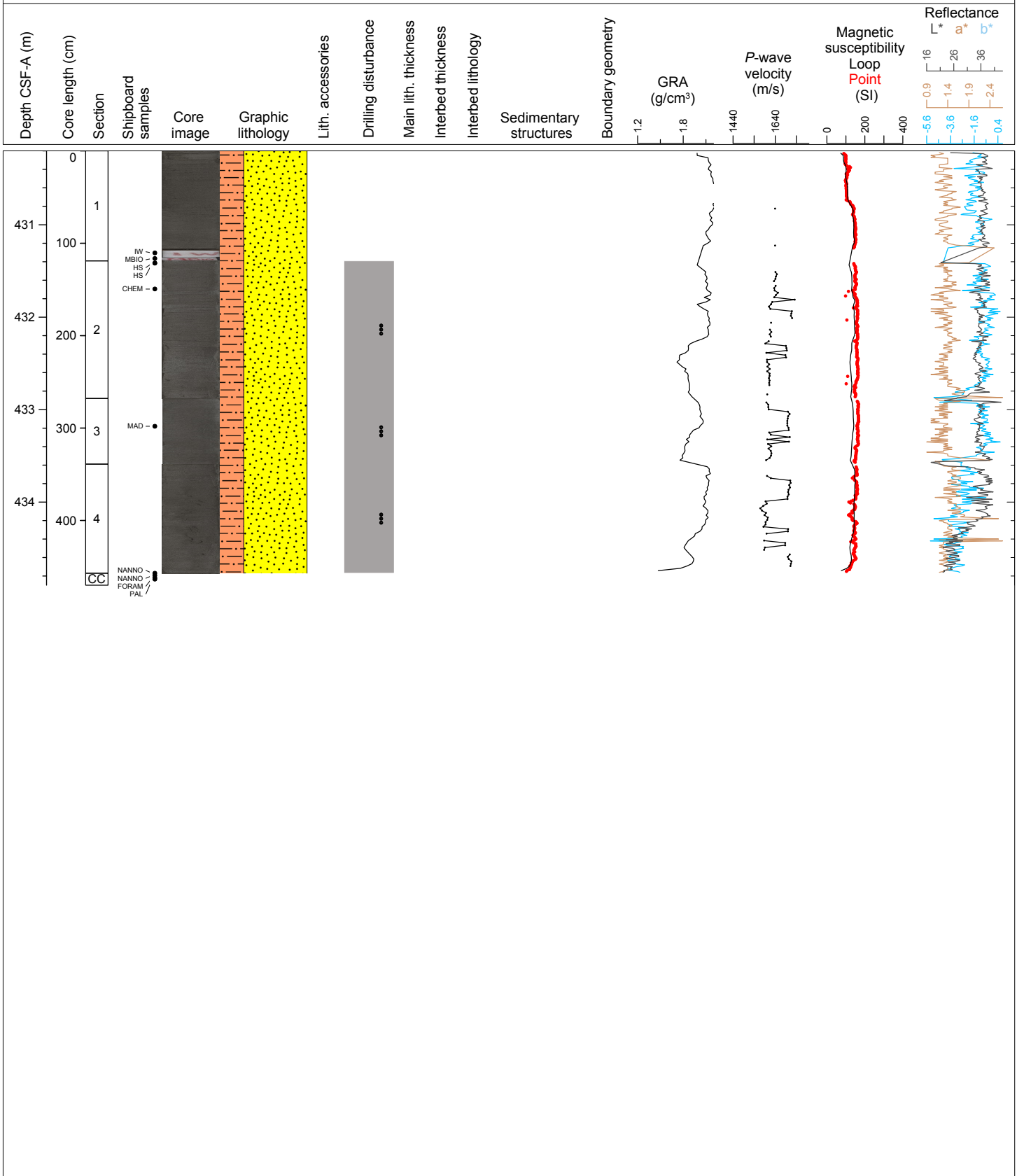
Hole 354-U1451A Core 78F, Interval 420.7-421.63 m (CSF-A)

Major lithology: dark gray fine sand with mica.



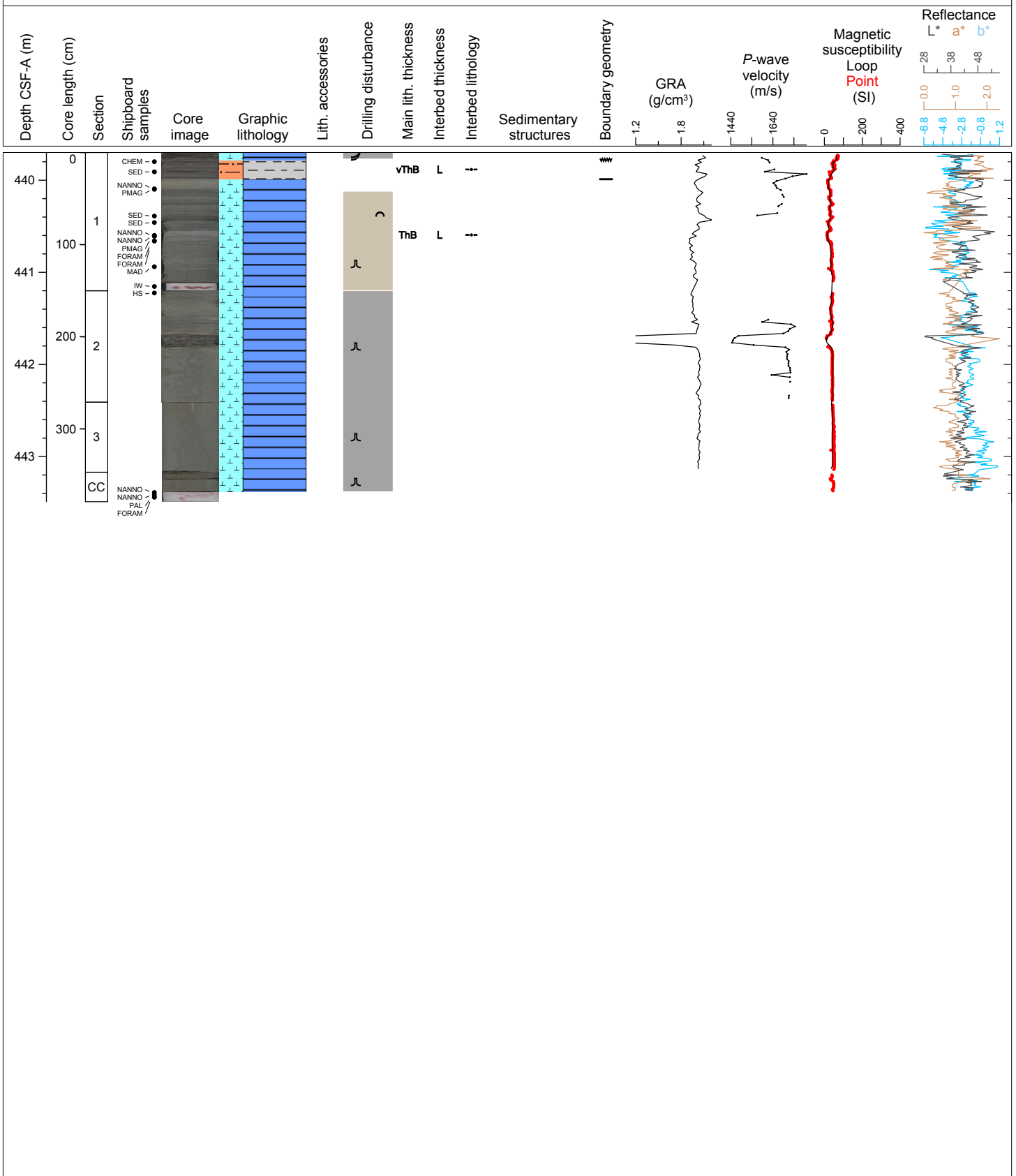
Hole 354-U1451A Core 80F, Interval 430.2-434.9 m (CSF-A)

Major lithology: dark gray silty fine sand.



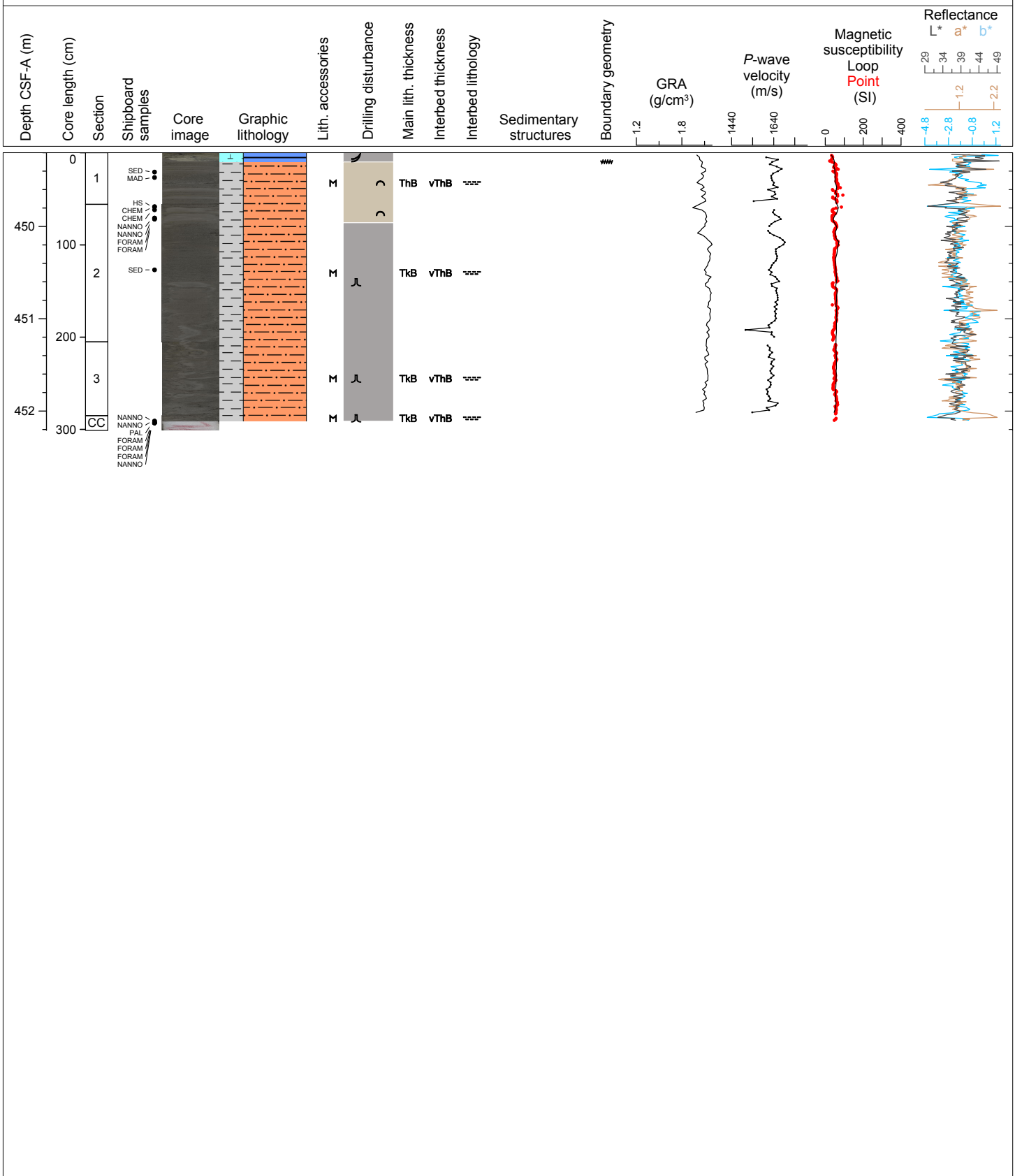
Hole 354-U1451A Core 82F, Interval 439.7-443.49 m (CSF-A)

Major lithology: greenish-gray nannofossil-rich calcareous clay; Minor lithology: gray silt fining-up into silty clay



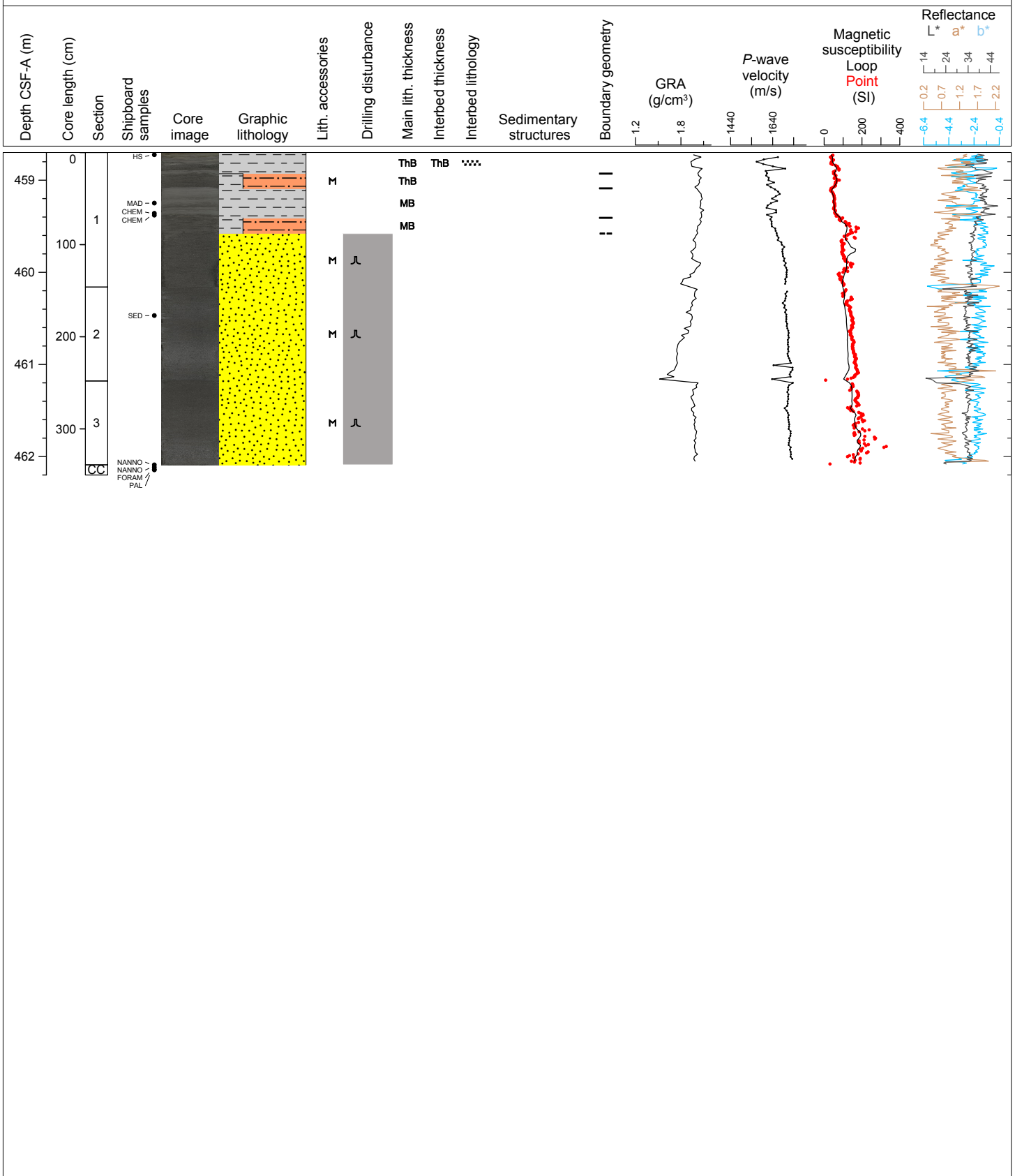
Hole 354-U1451A Core 84F, Interval 449.2-452.21 m (CSF-A)

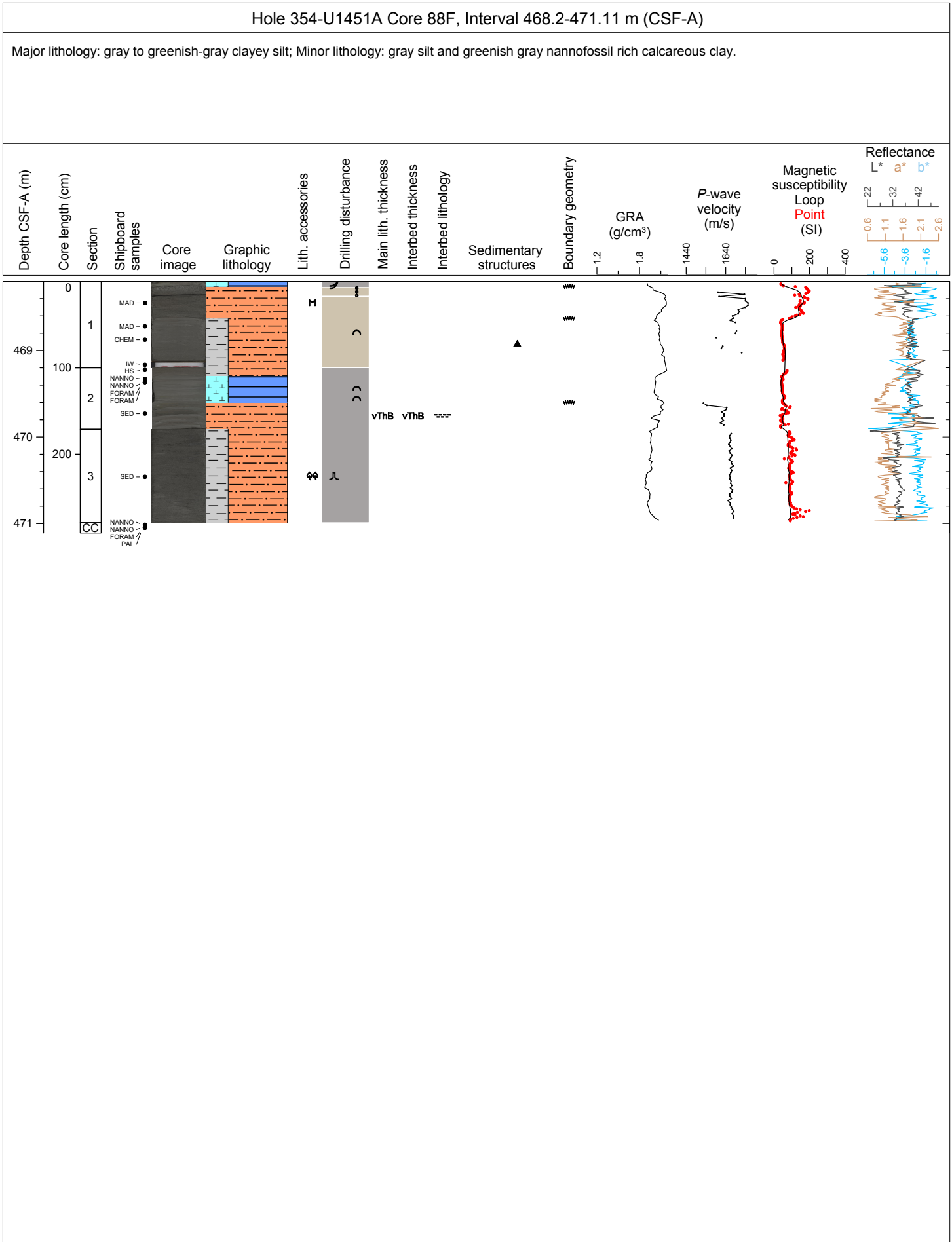
Major lithology: gray (slightly greenish) clayey silt with mica; Minor lithology: gray silty clay and greenish gray nannofossil rich calcareous clay.



Hole 354-U1451A Core 86F, Interval 458.7-462.2 m (CSF-A)

Major lithology: dark gray fine sand with mica; Minor lithology: gray clay and dark gray clayey silt.

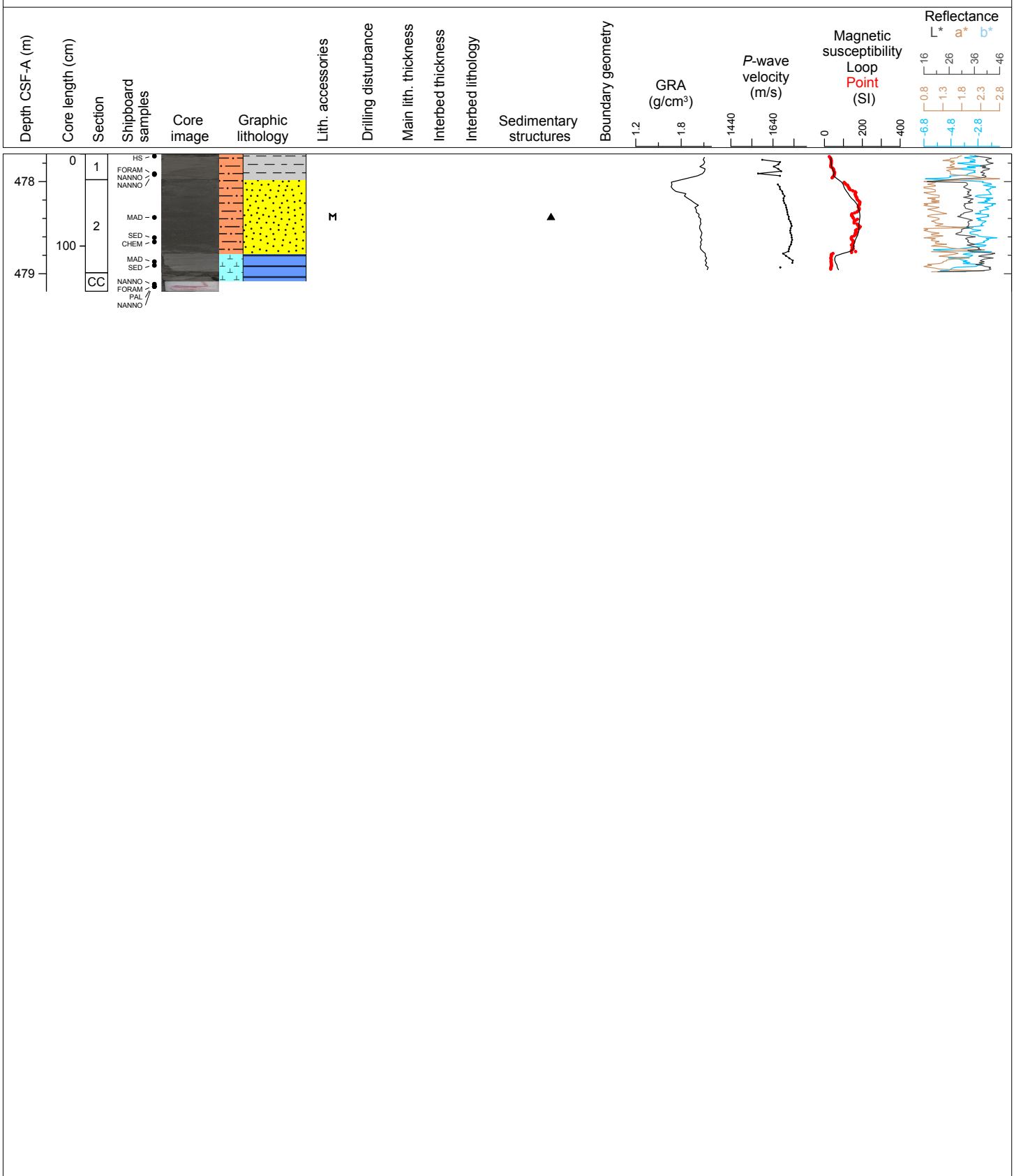




U1451A-891 Drilled interval

Hole 354-U1451A Core 90F, Interval 477.7-479.19 m (CSF-A)

Major lithology: dark gray silty fine sand; Minor lithology: gray silty clay and greenish-gray nannofossil rich calcareous clay.



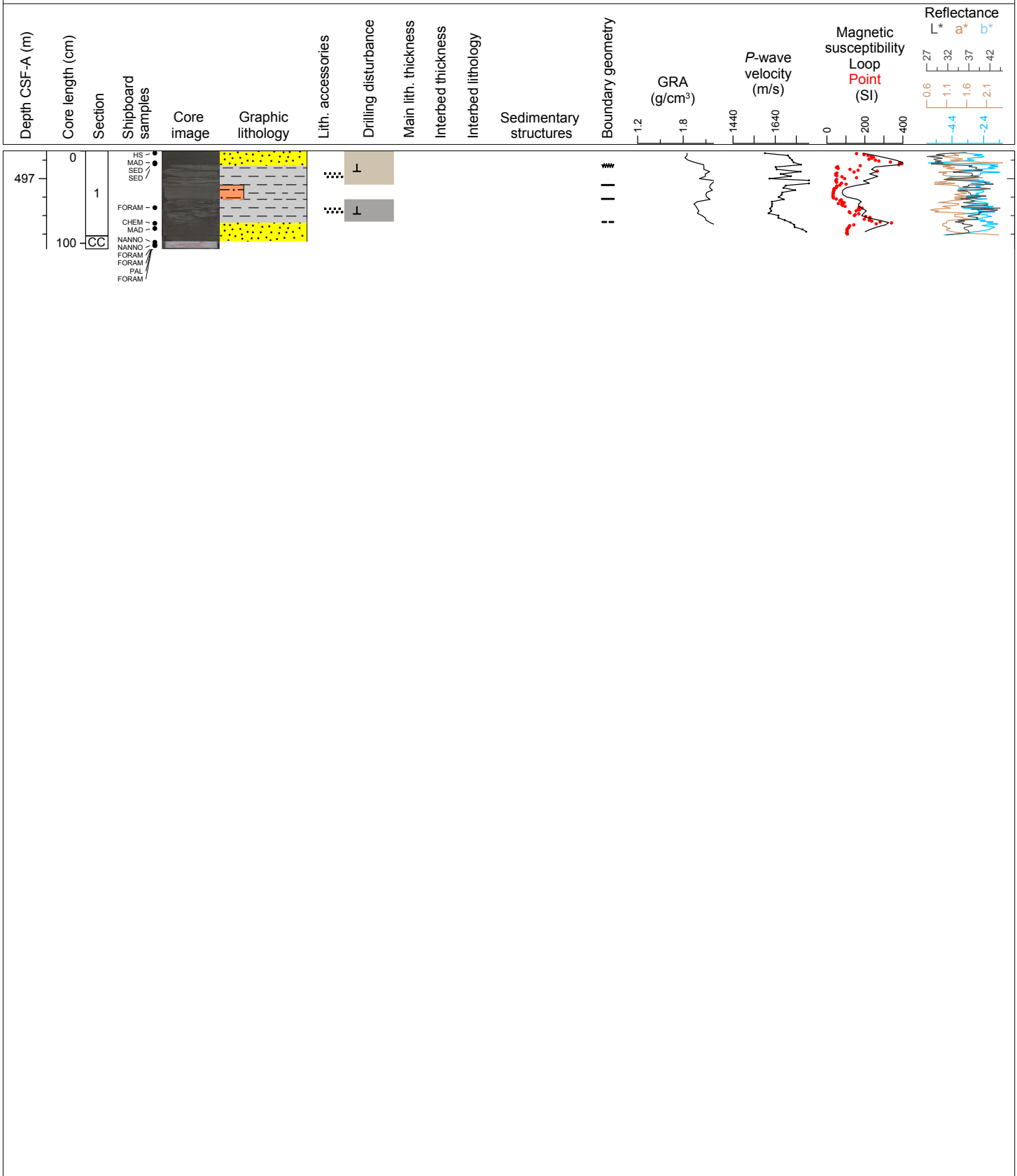
Hole 354-U1451A Core 92F, Interval 487.2-489.01 m (CSF-A)

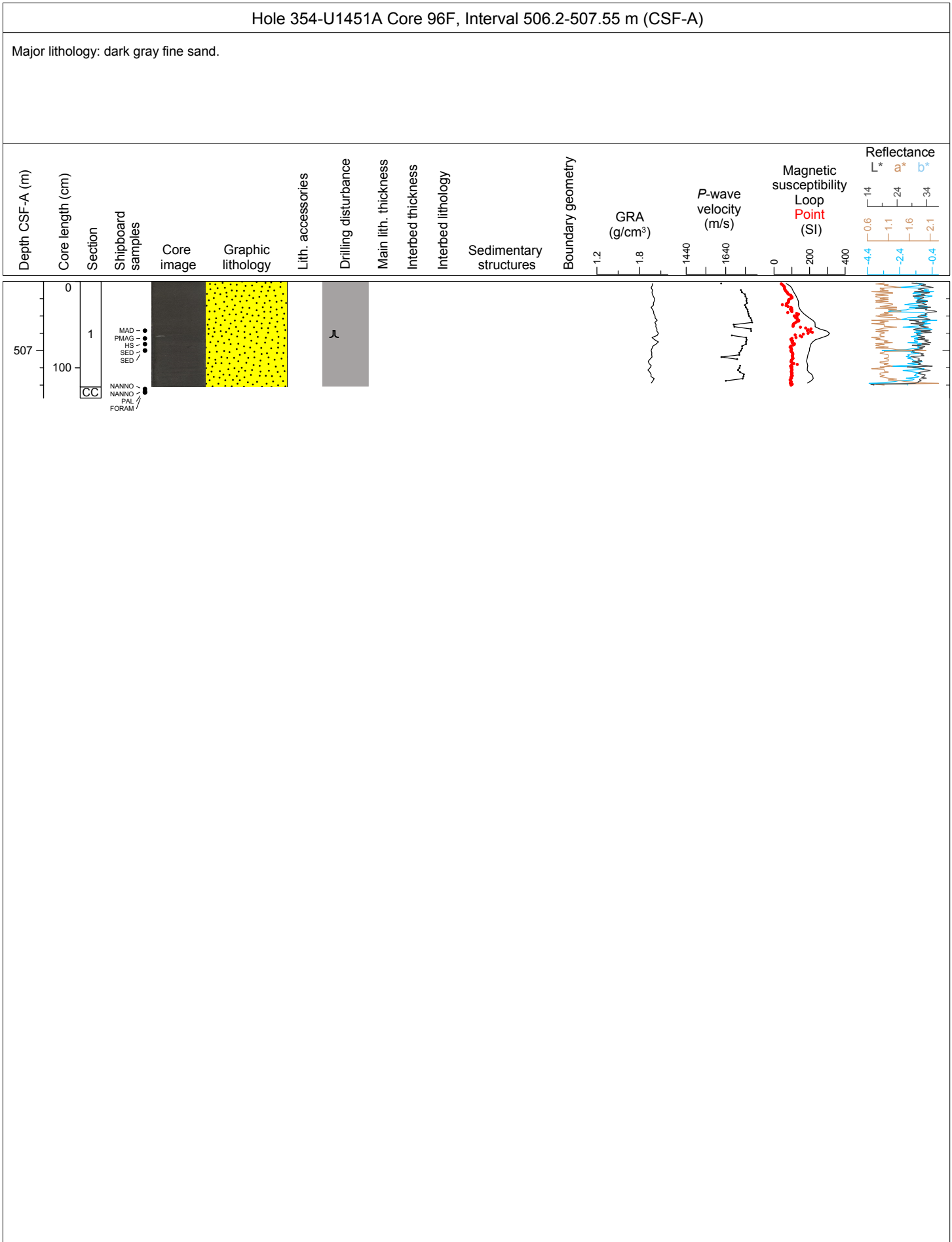
Major lithology: dark gray fine sand.



Hole 354-U1451A Core 94F, Interval 496.7-497.76 m (CSF-A)

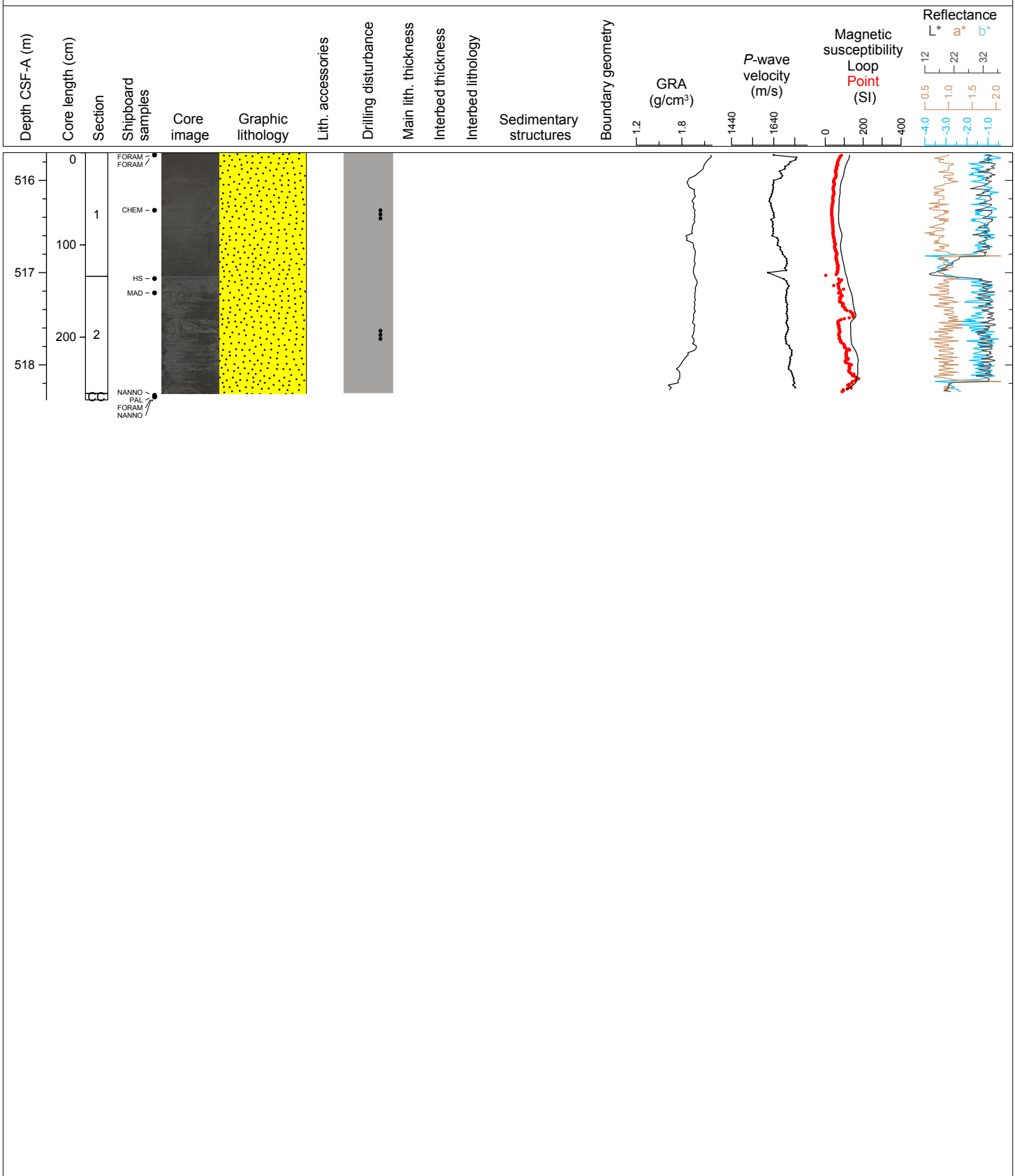
Major lithology: dark gray fine sand; Minor lithology: dark gray silty clay.





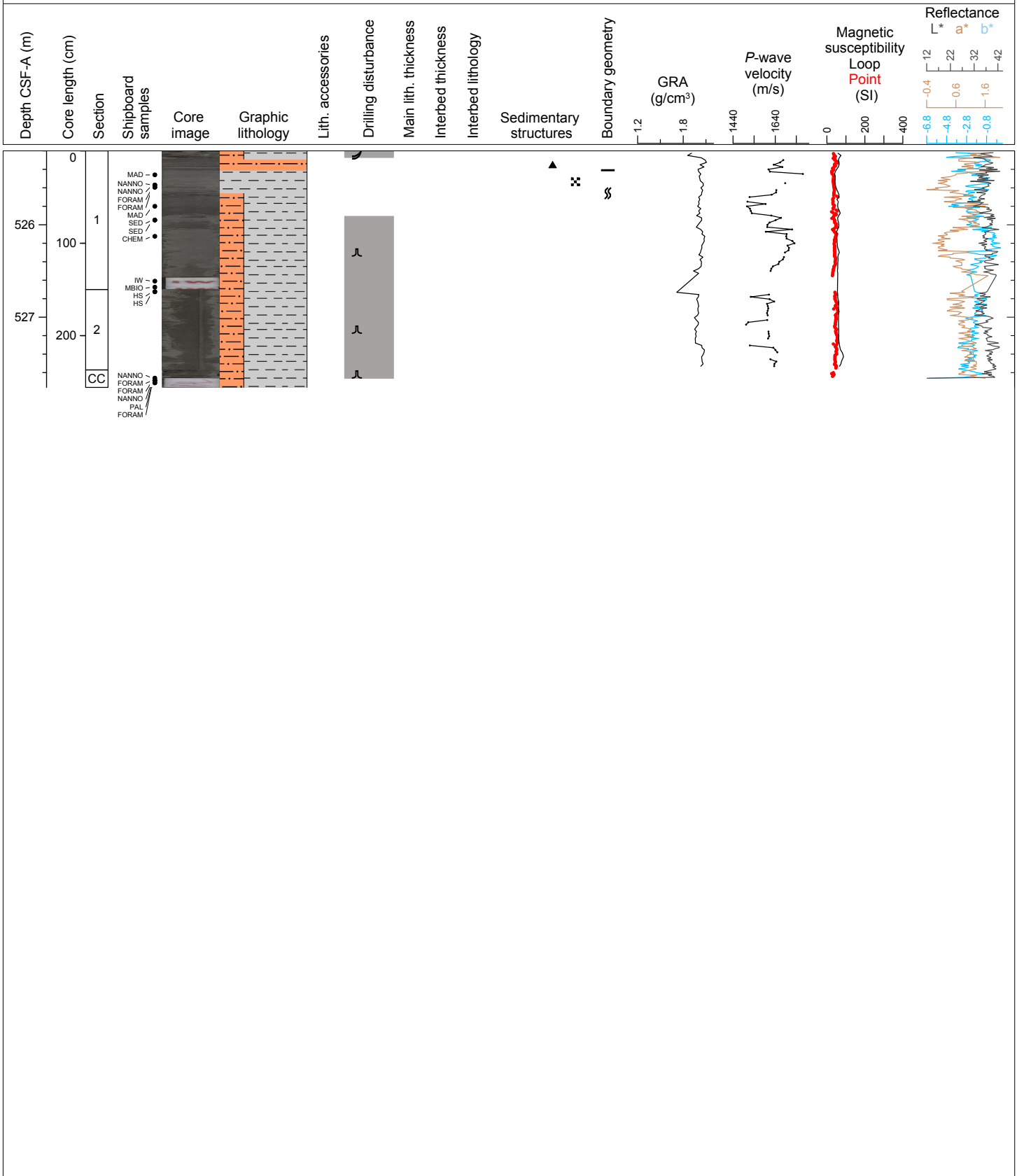
Hole 354-U1451A Core 98F, Interval 515.7-518.38 m (CSF-A)

Major lithology: dark gray fine sand.



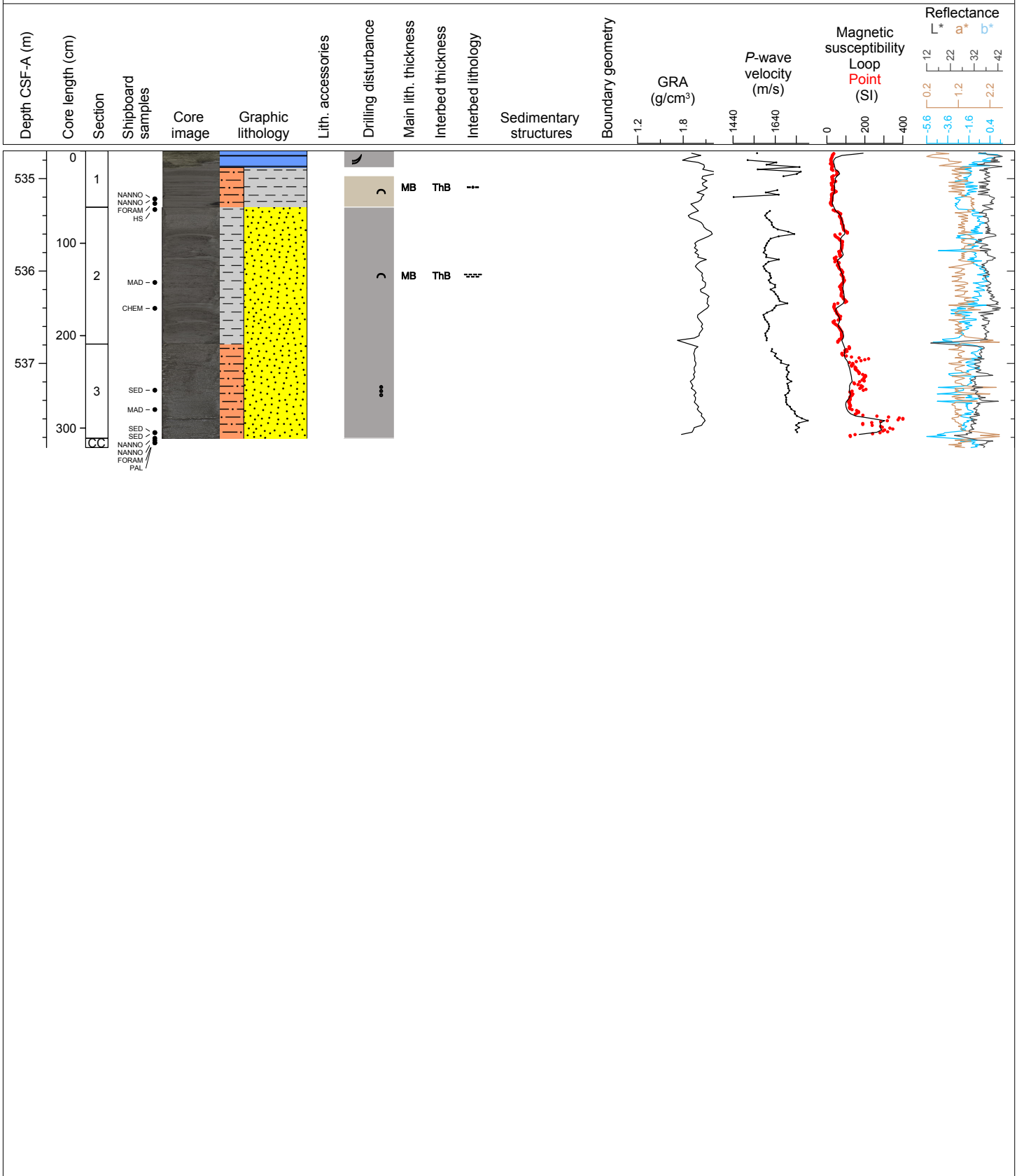
Hole 354-U1451A Core 100F, Interval 525.2-527.76 m (CSF-A)

Major lithology: gray to dark gray silty clay; Minor lithology: dark gray silt.



Hole 354-U1451A Core 102F, Interval 534.7-537.91 m (CSF-A)

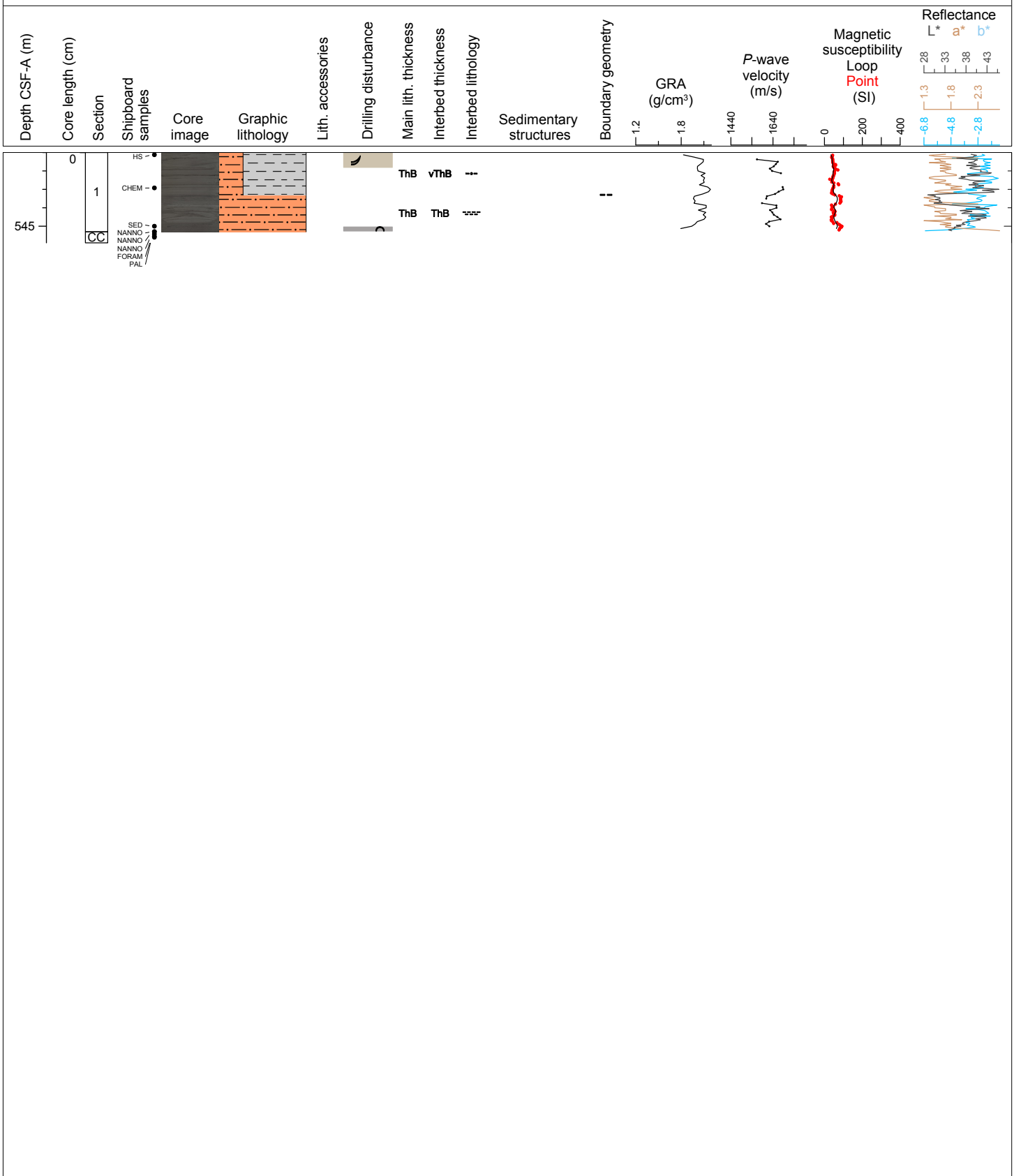
Major lithology: dark gray clayey sand. Minor lithology: dark gray silty clay, dark gray calcareous clay.



U1451A-1031 Drilled interval

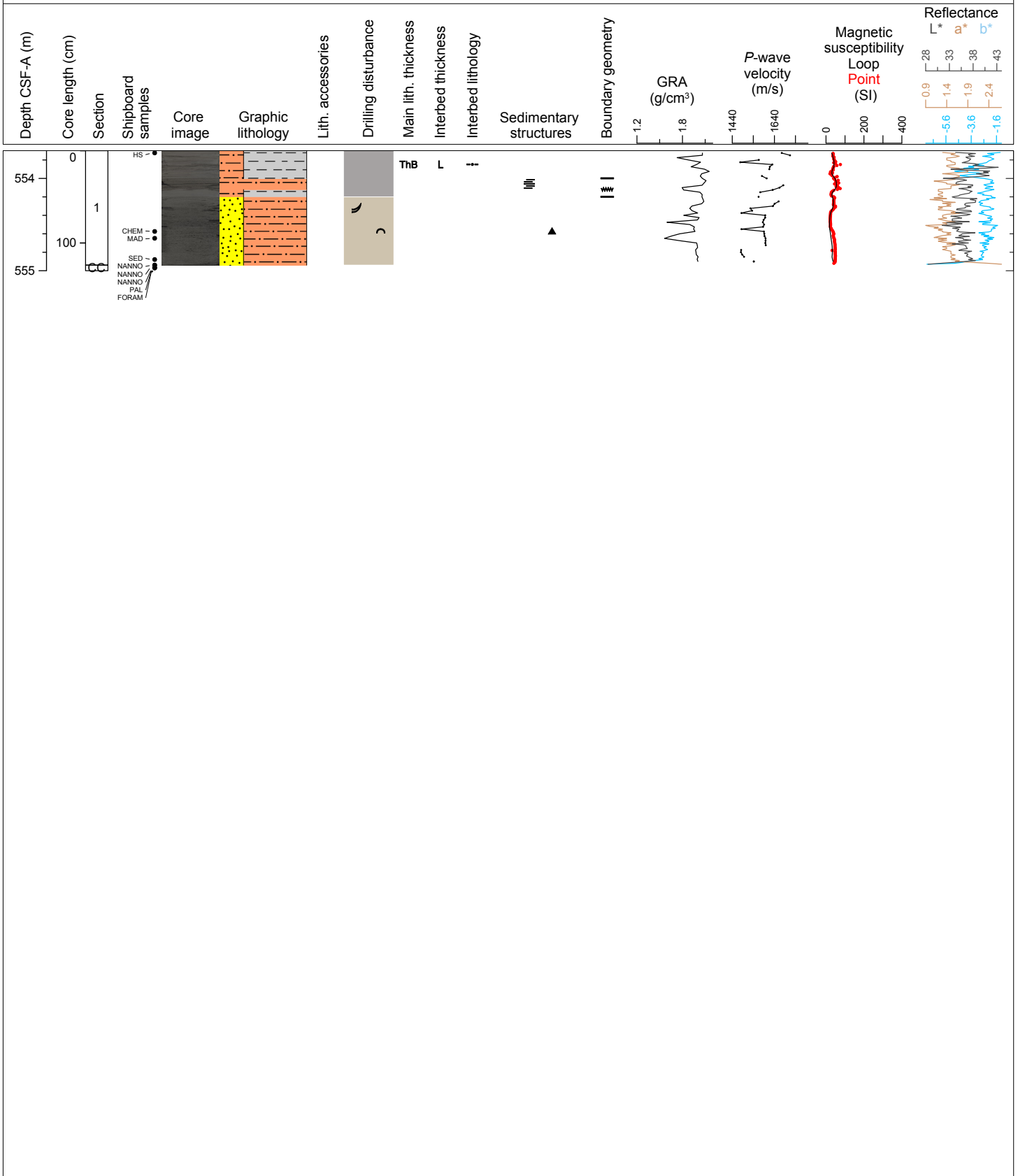
Hole 354-U1451A Core 104F, Interval 544.2-545.18 m (CSF-A)

Major lithology: dark gray clayey silt and dark gray clay.



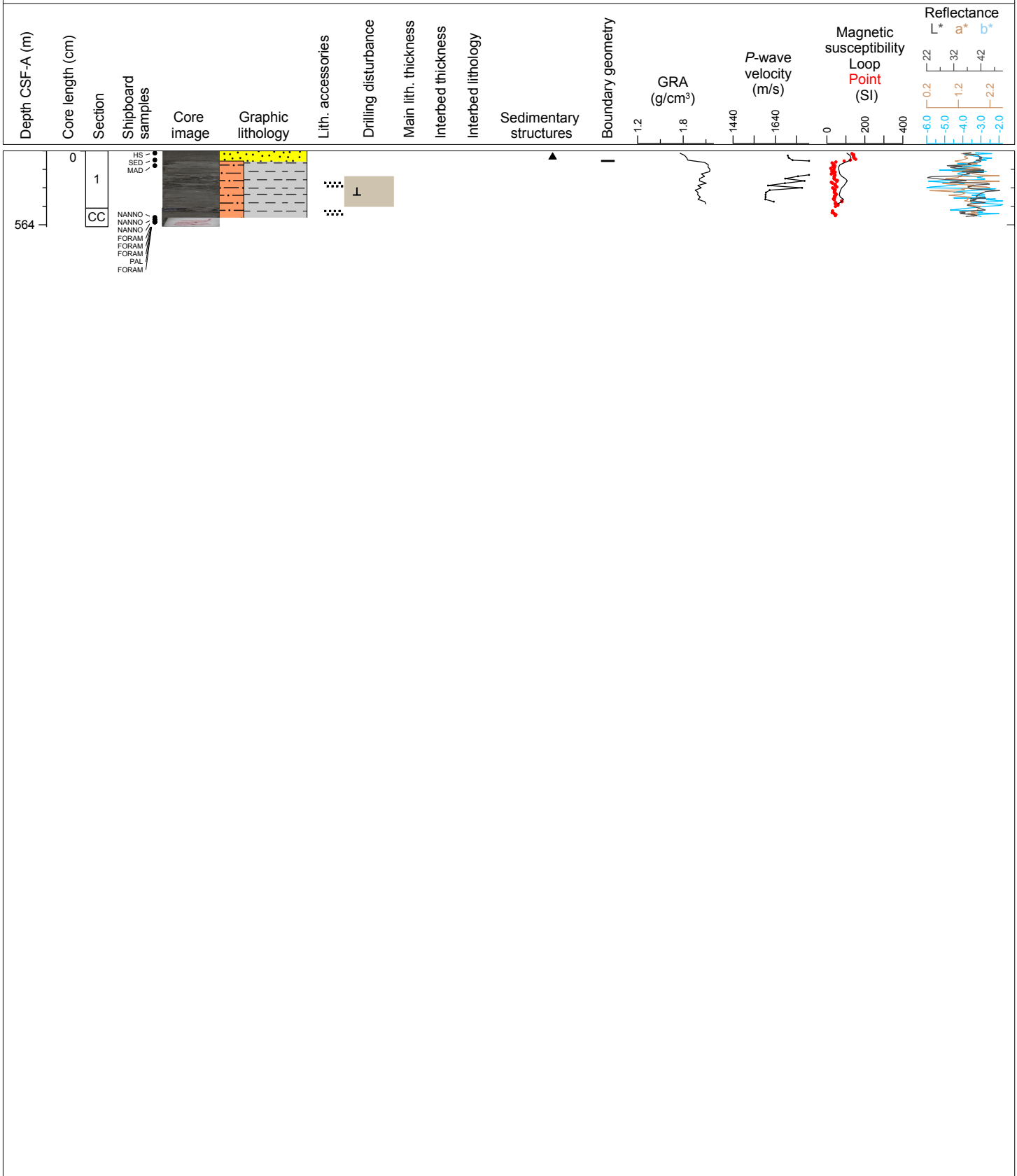
Hole 354-U1451A Core 106F, Interval 553.7-555.0 m (CSF-A)

Major lithology: dark gray sandy silt; Minor lithology: gray silty clay.



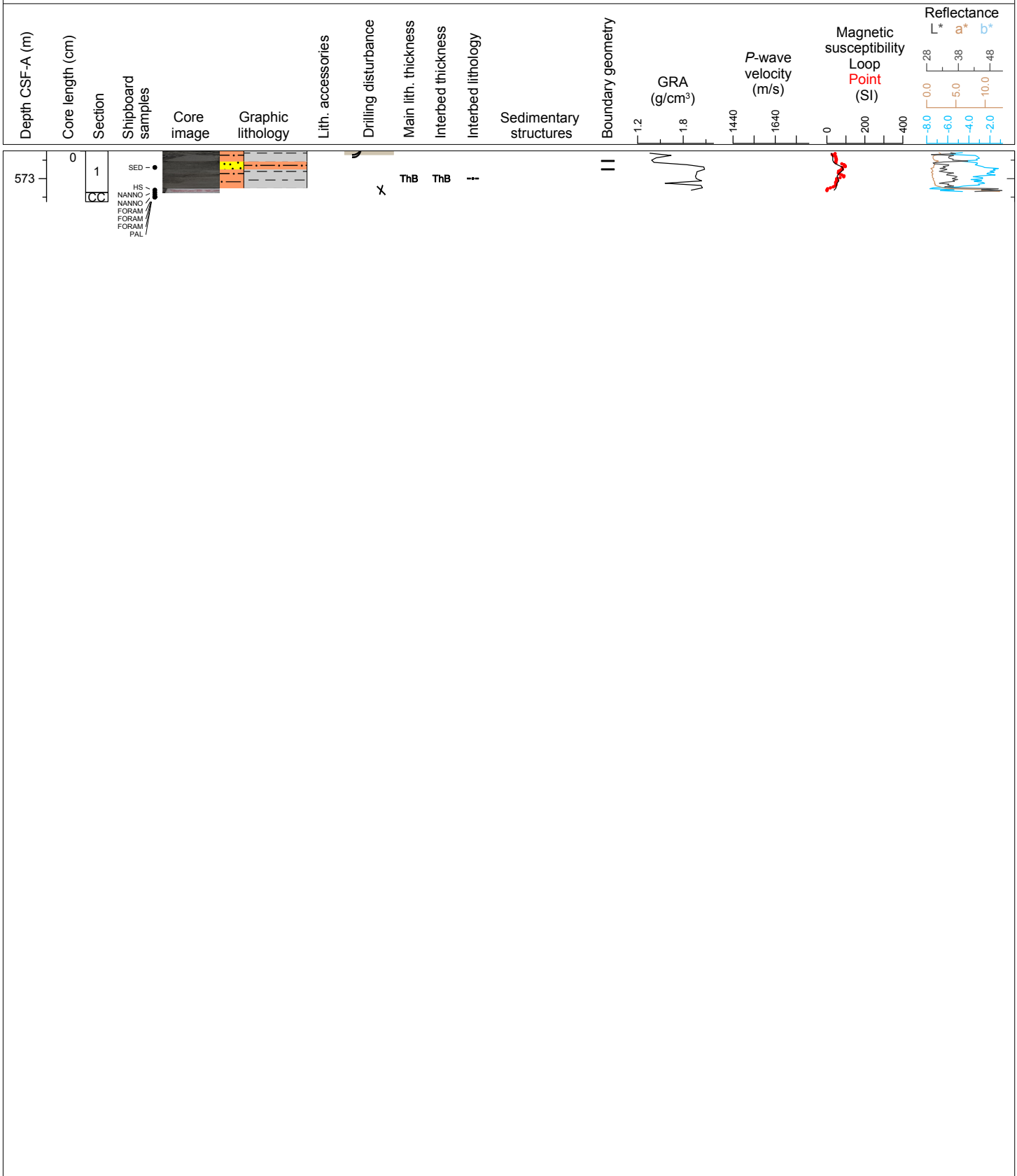
Hole 354-U1451A Core 108F, Interval 563.2-564.02 m (CSF-A)

Major lithology: dark gray silty clay; Minor lithology: dark gray normally graded fine sand.



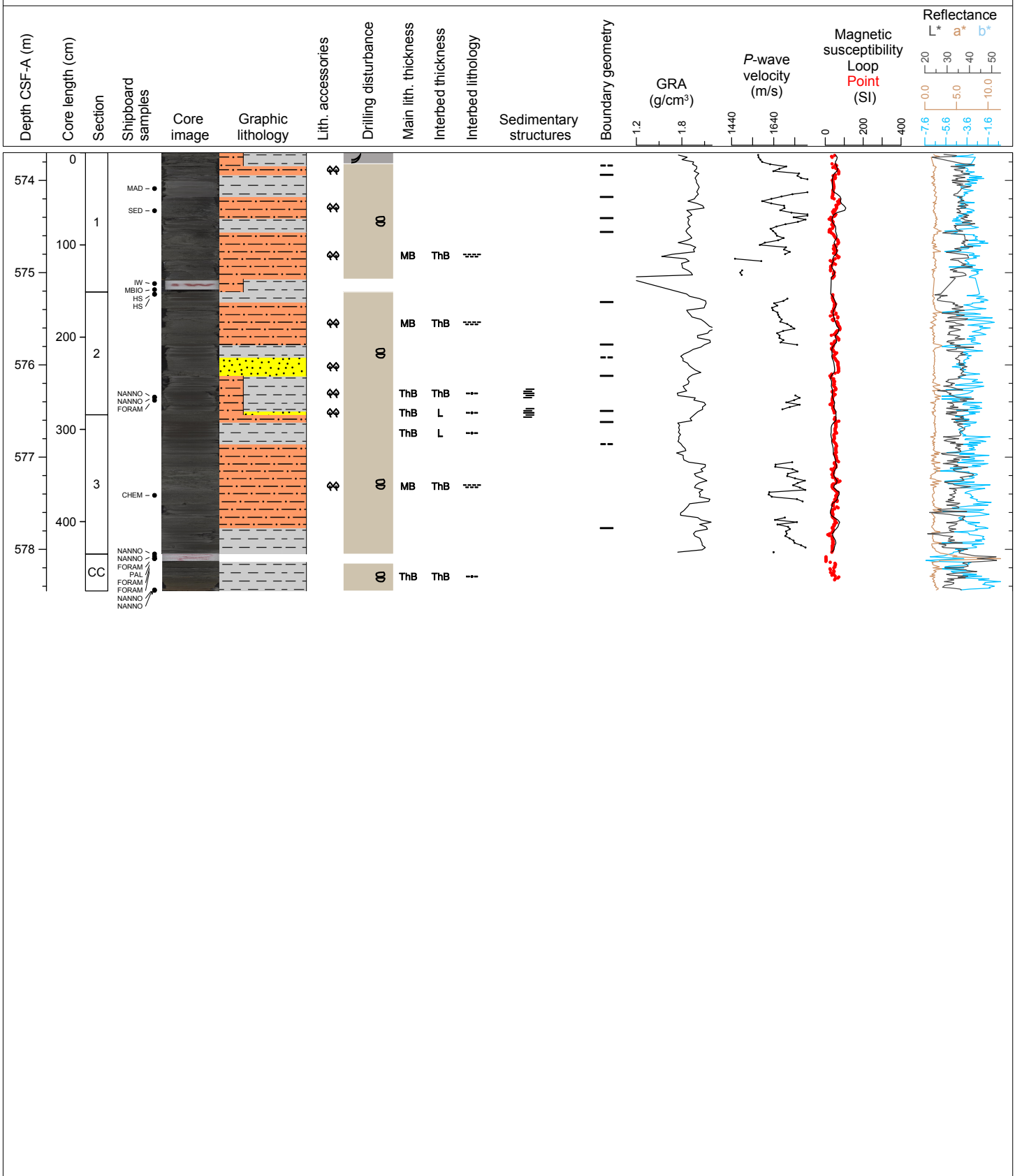
Hole 354-U1451A Core 110F, Interval 572.7-573.25 m (CSF-A)

Major lithology: dark gray silty clay; Minor lithology: dark gray sandy silt.



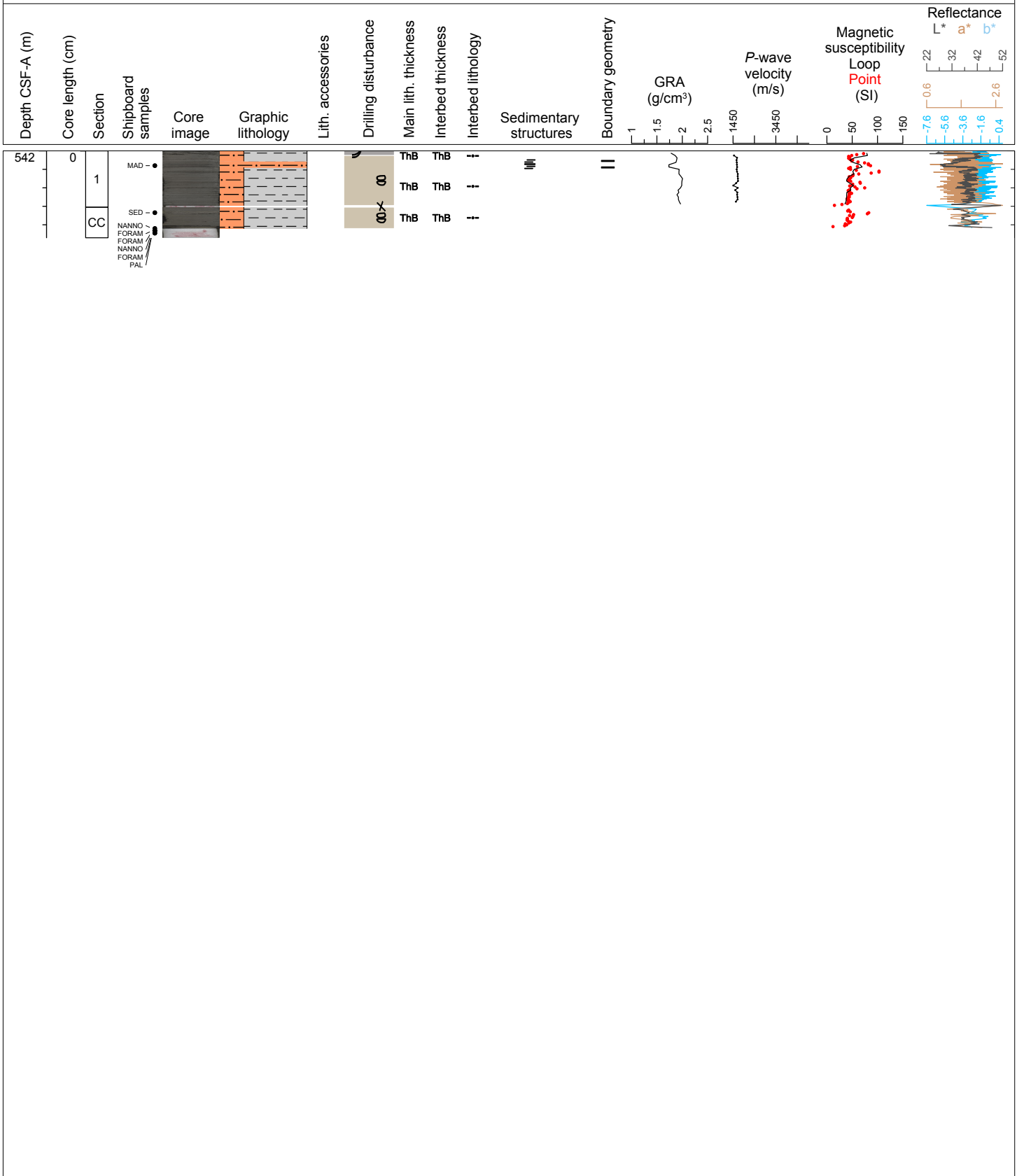
Hole 354-U1451A Core 111X, Interval 573.7-578.45 m (CSF-A)

Major lithology: dark gray clay; Minor lithology: dark gray silt with plant fragments and dark gray fine sand with plant fragments.



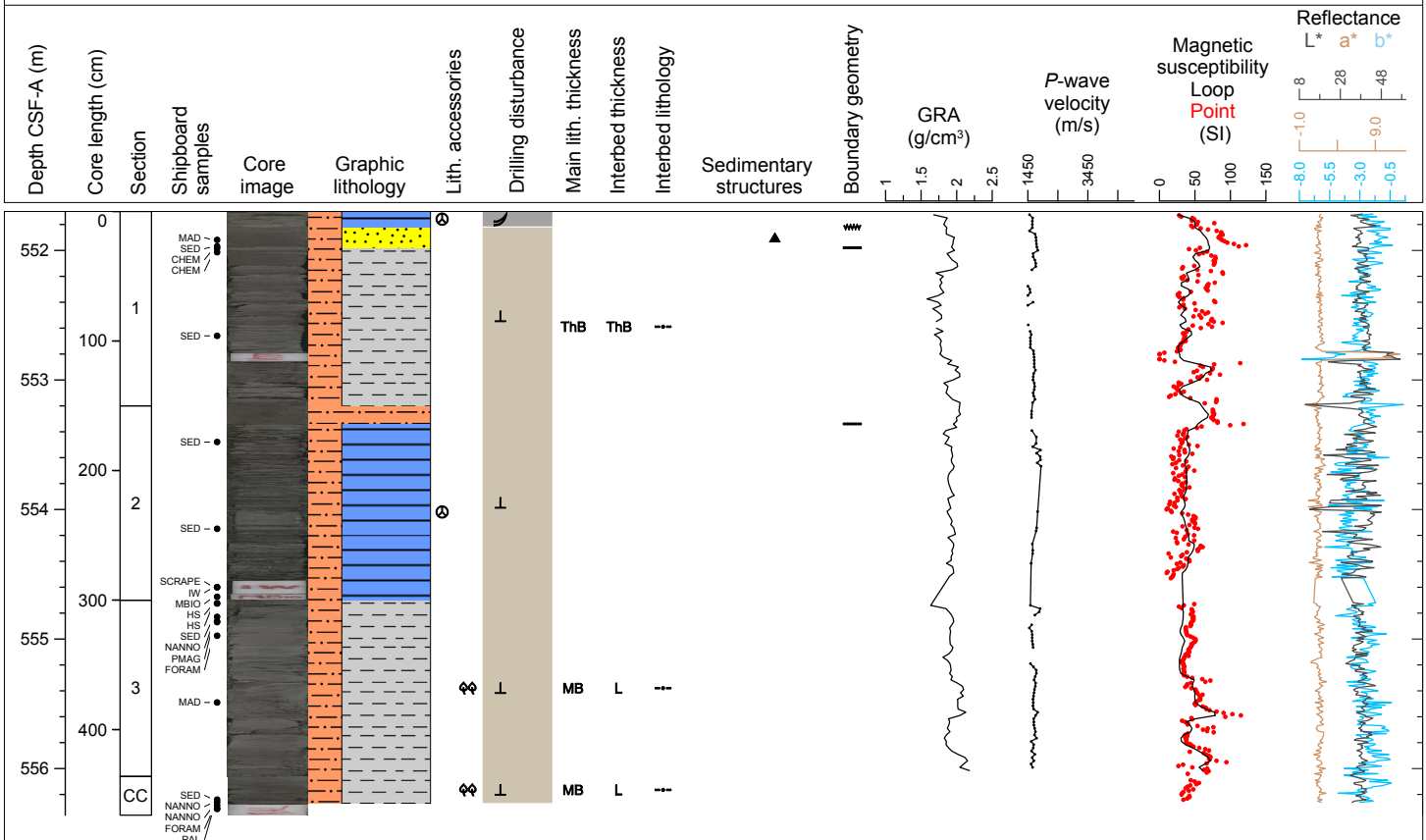
Hole 354-U1451B Core 2X, Interval 542.0-542.94 m (CSF-A)

Major lithology: gray silty clay; Minor lithology: gray silt.



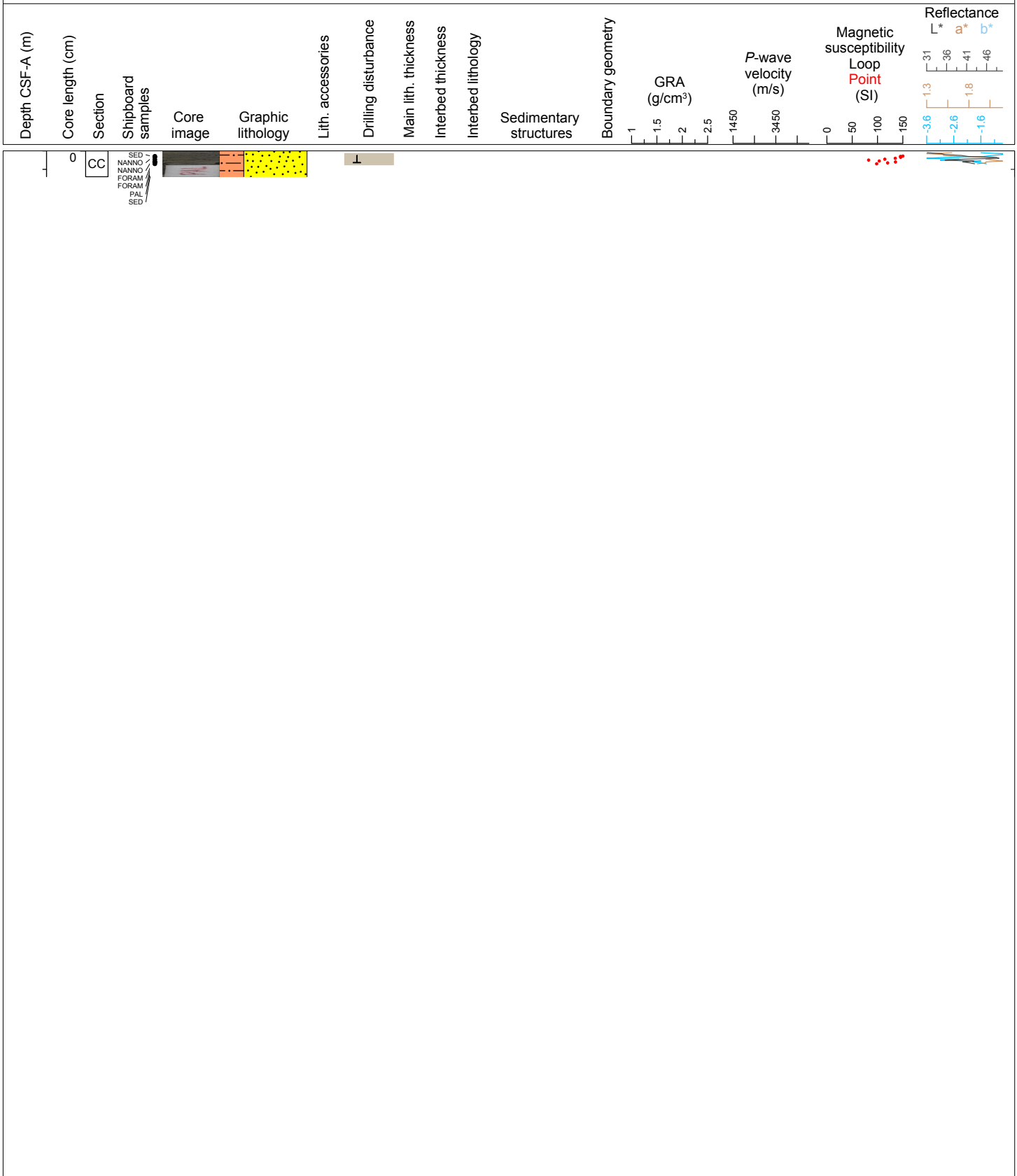
Hole 354-U1451B Core 3X, Interval 551.7-556.36 m (CSF-A)

Major lithology: greenish gray to dark gray silty clay, Minor lithology: gray silt and dark gray silty fine sand.



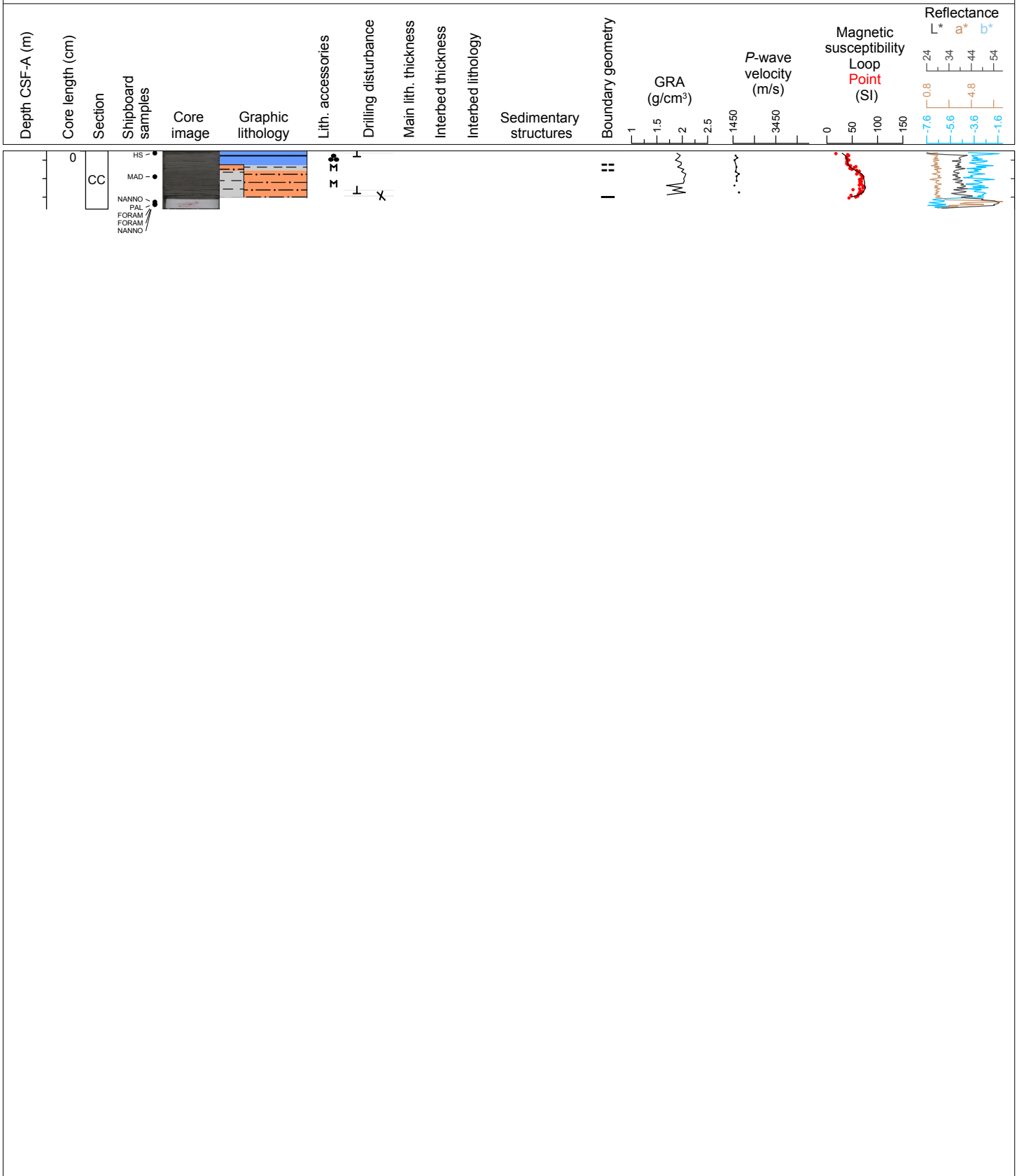
Hole 354-U1451B Core 4X, Interval 561.4-561.68 m (CSF-A)

Major lithology: gray silty fine sand.



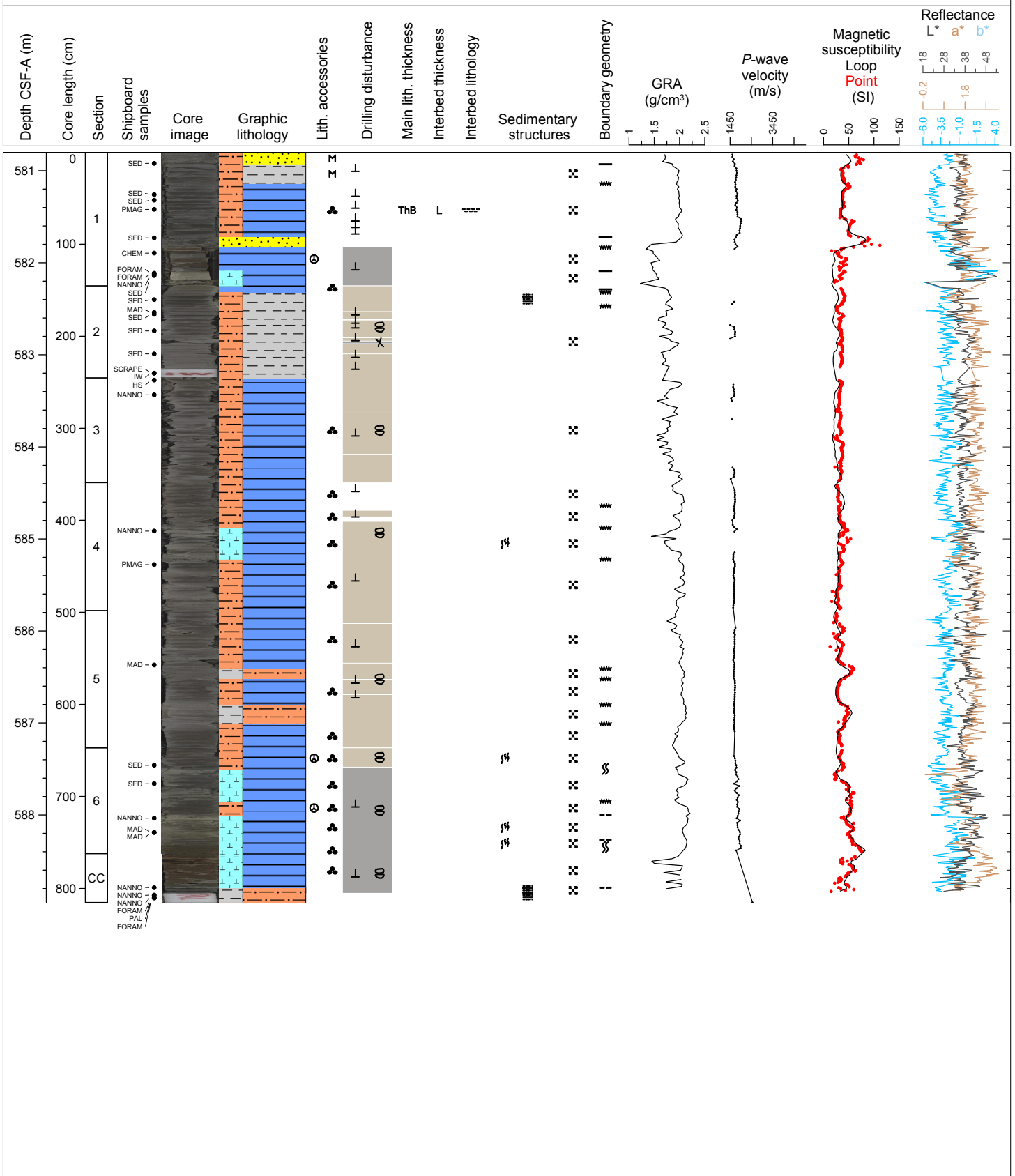
Hole 354-U1451B Core 5X, Interval 571.1-571.73 m (CSF-A)

Major lithology: dark gray silty clay; Minor lithology: dark gray clayey silt; General comments: entire core catcher is a single mud turbidite.



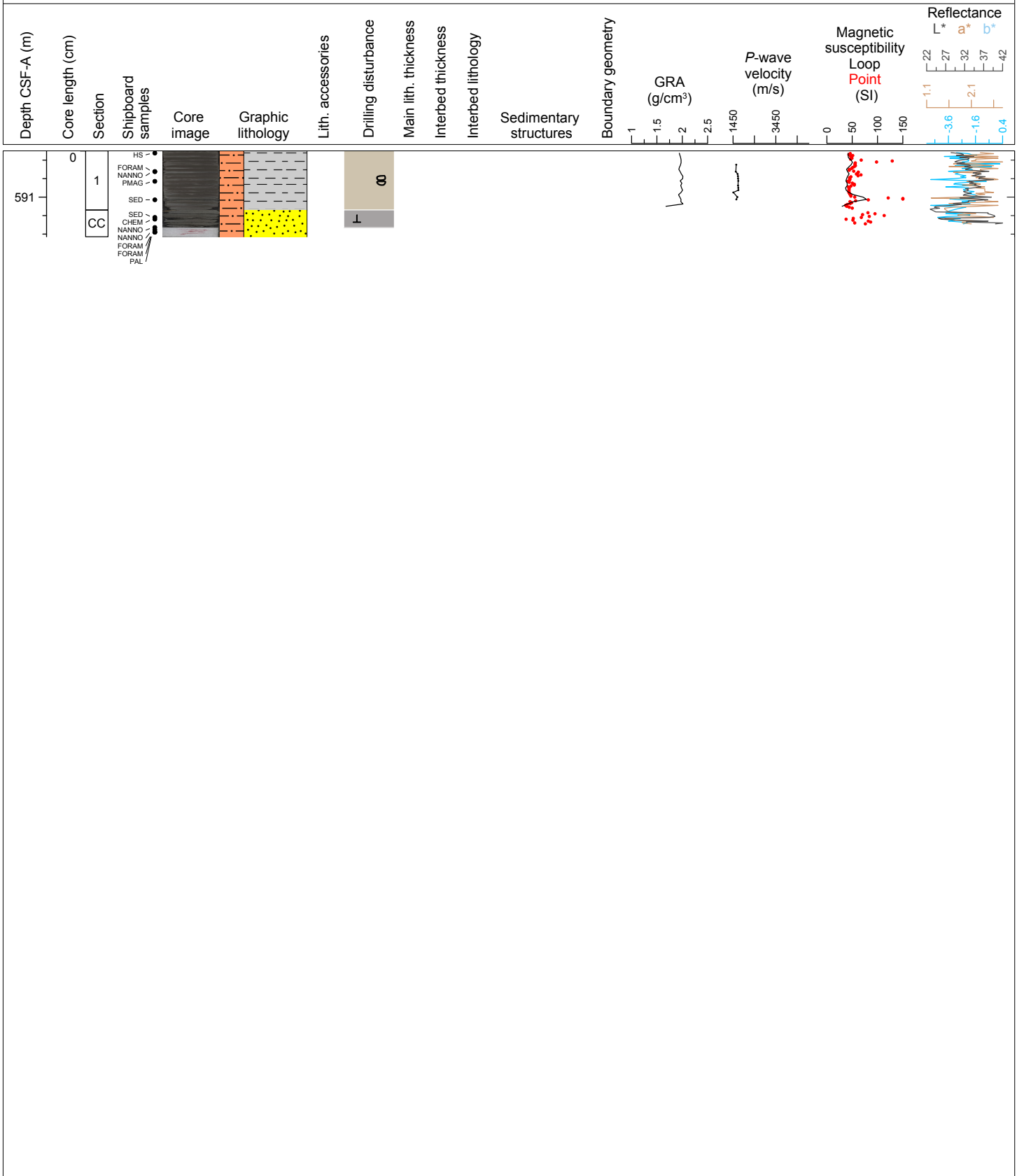
Hole 354-U1451B Core 6X, Interval 580.8-588.95 m (CSF-A)

Major lithology: silty calcareous clay with foraminifers; Minor lithology: nannofossil-rich calcareous clay.



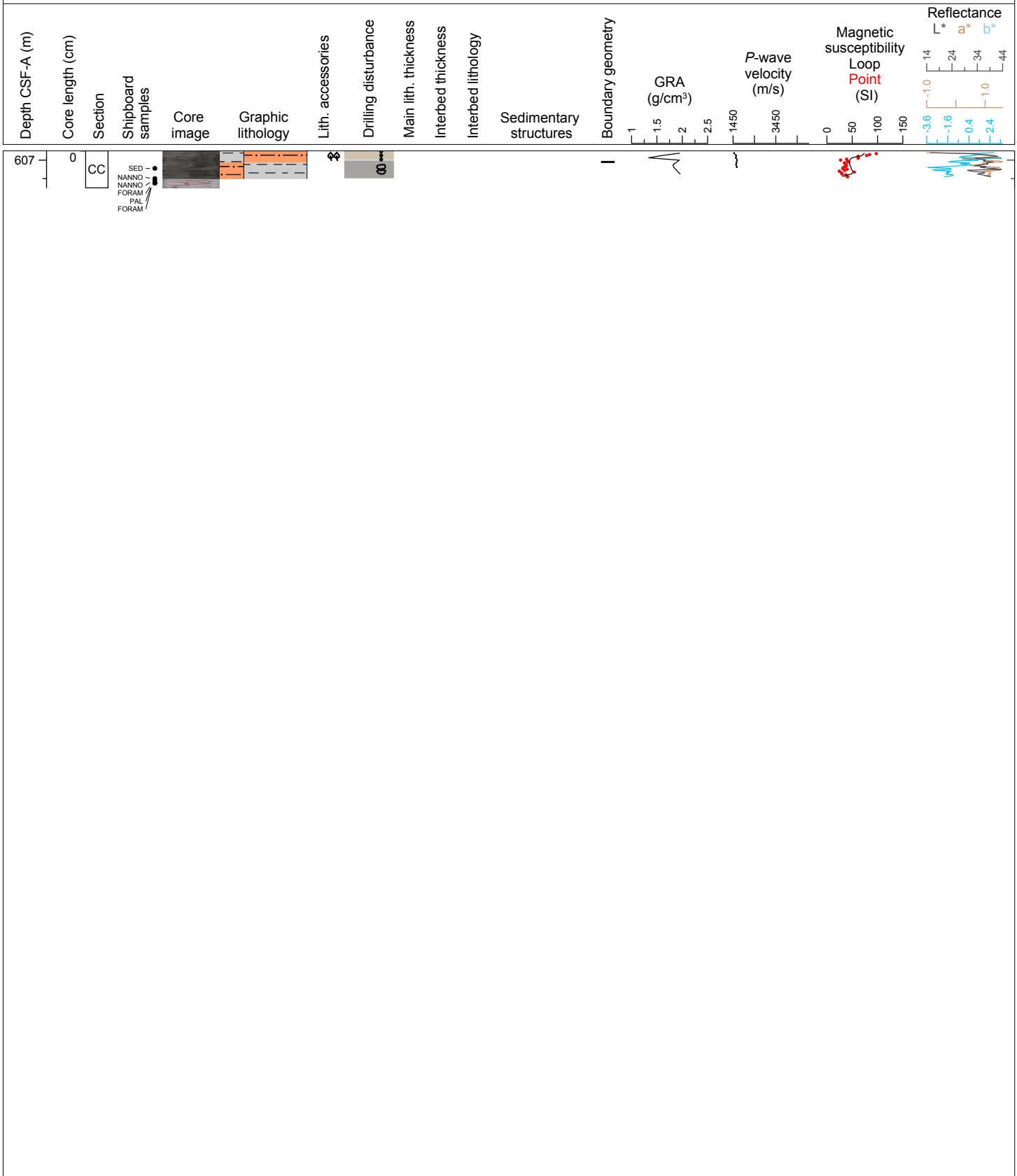
Hole 354-U1451B Core 7X, Interval 590.5-591.43 m (CSF-A)

Major lithology: gray silty clay; Minor lithology: dark gray silty clay.



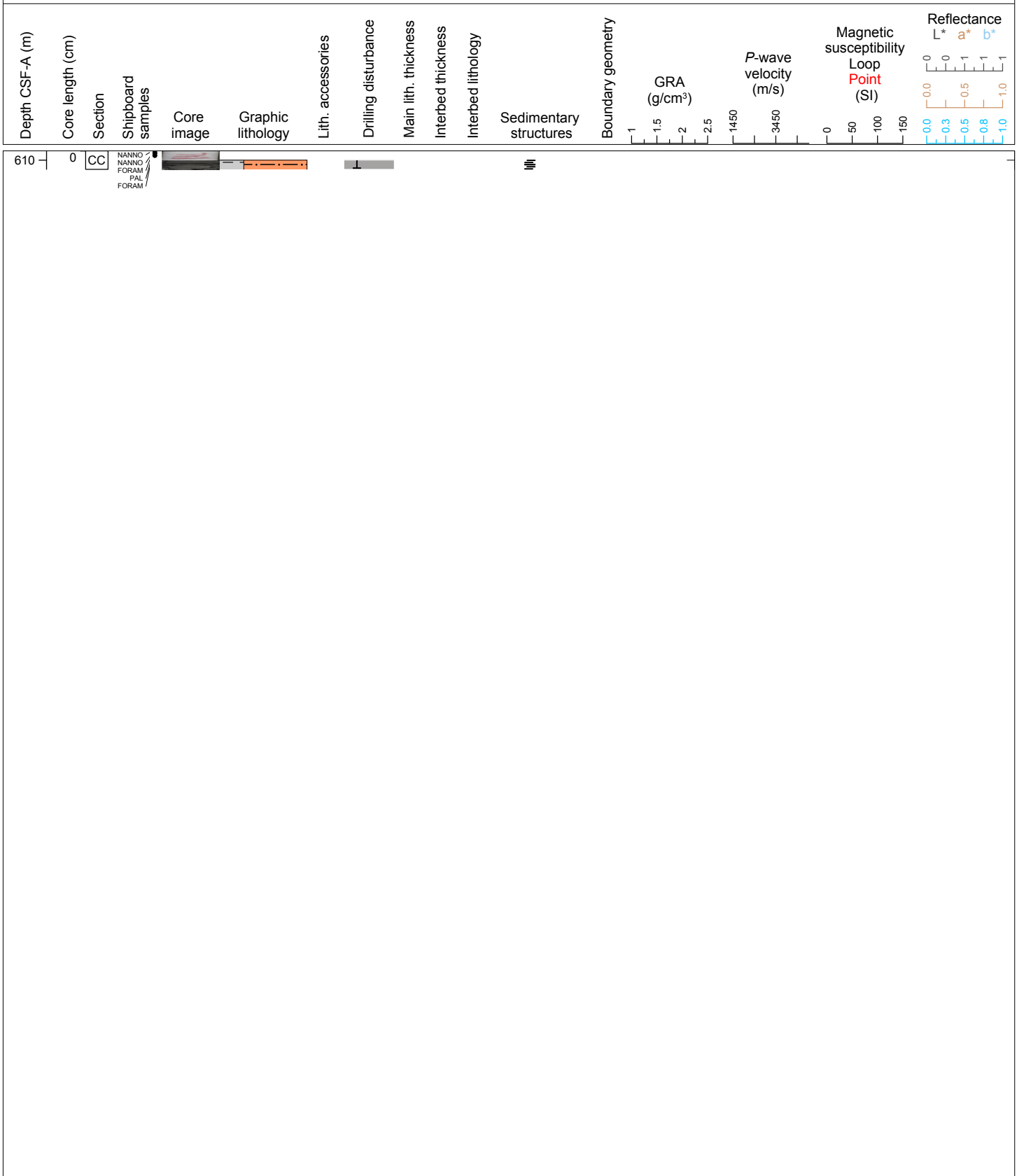
Hole 354-U1451B Core 9X, Interval 606.9-607.3 m (CSF-A)

Major lithology: gray silty clay; Minor lithology: dark gray silty clay.



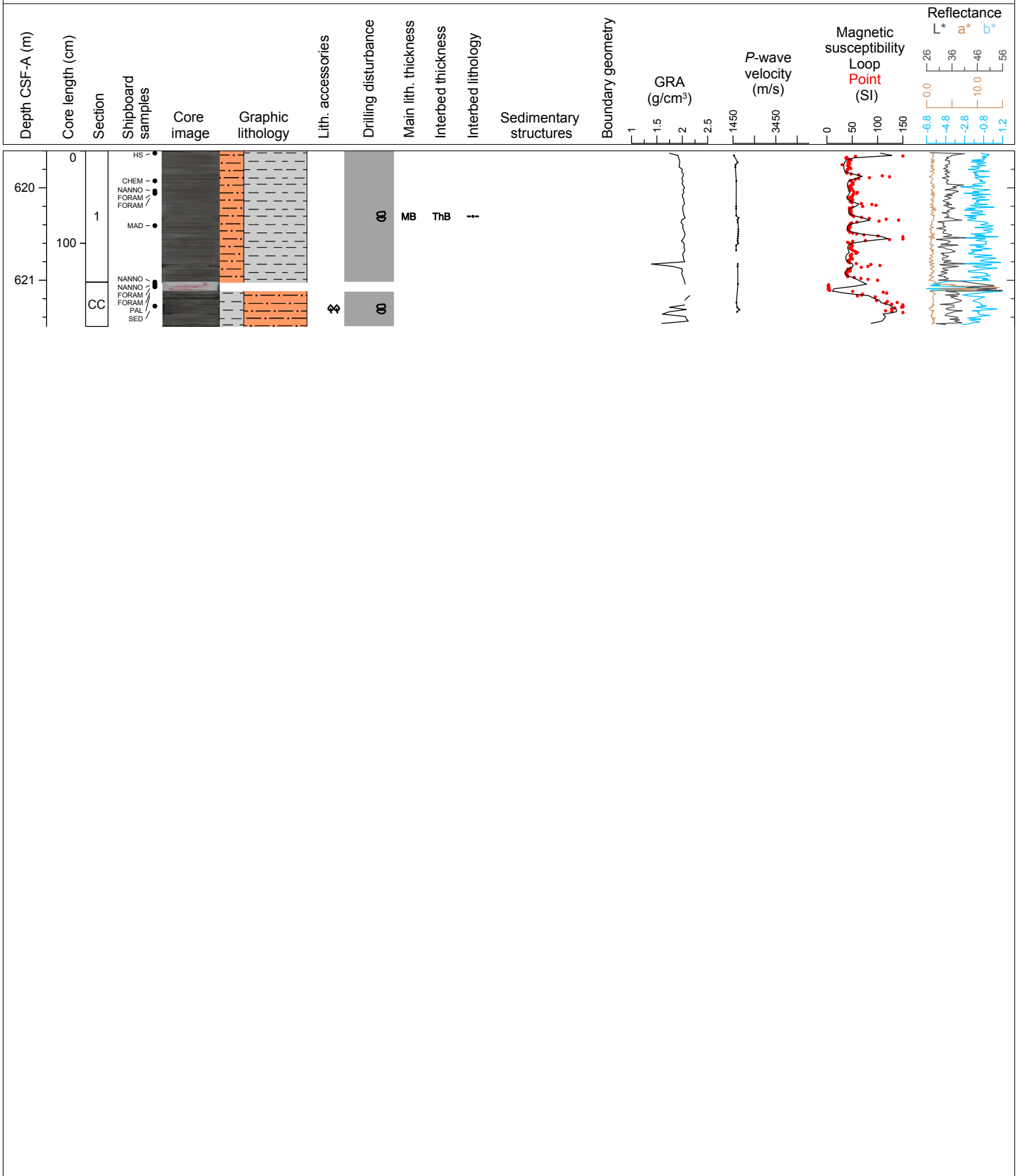
Hole 354-U1451B Core 10X, Interval 609.9-610.1 m (CSF-A)

Major lithology: clayey silt with lamination.



Hole 354-U1451B Core 11X, Interval 619.6-621.5 m (CSF-A)

Major lithology: dark gray silty clay; Minor lithology: dark gray clayey silt with plant fragments.



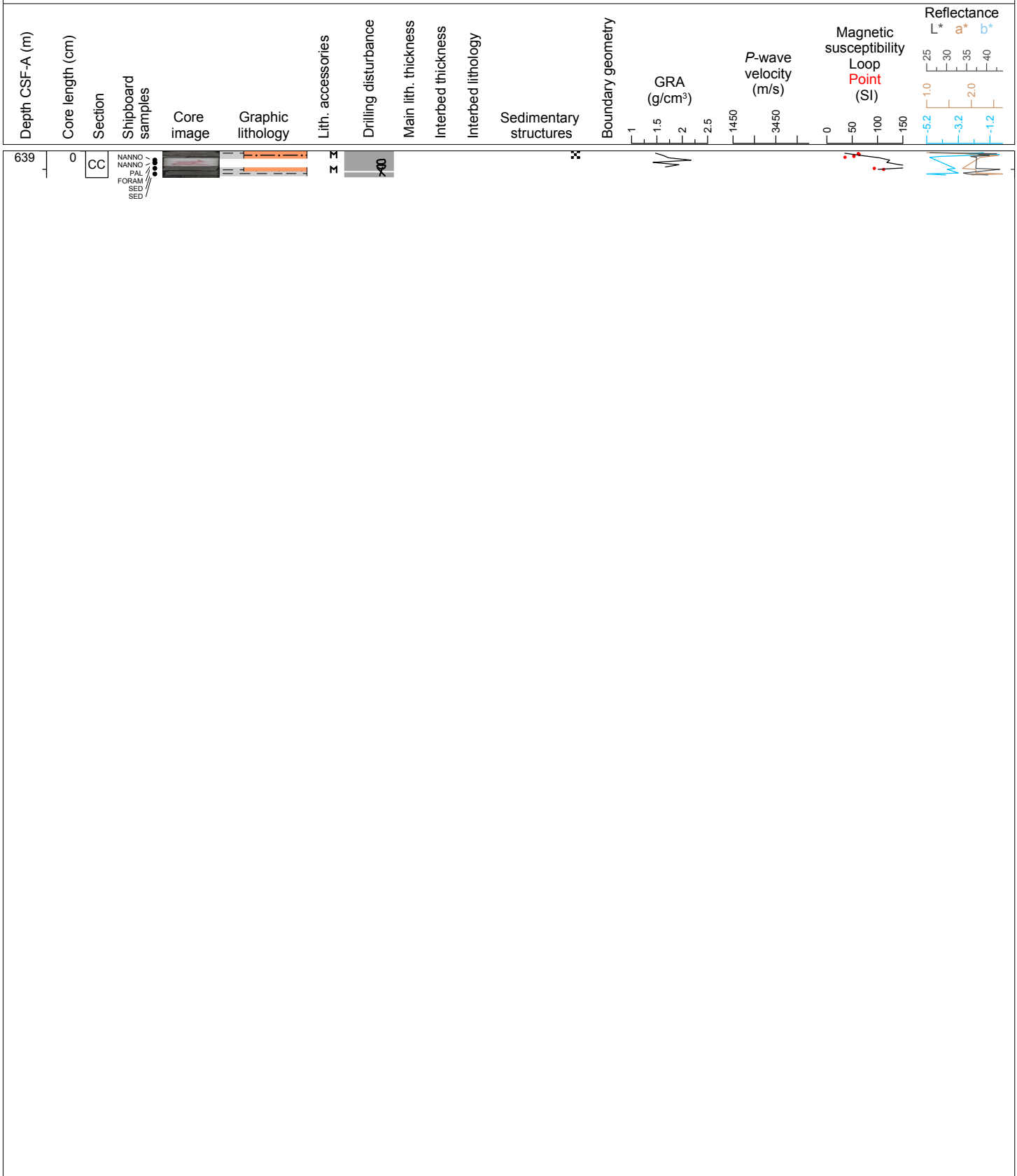
Hole 354-U1451B Core 12X, Interval 629.3-629.98 m (CSF-A)

Major lithology: gray silty clay with thin silt interbeds.



Hole 354-U1451B Core 13X, Interval 639.0-639.29 m (CSF-A)

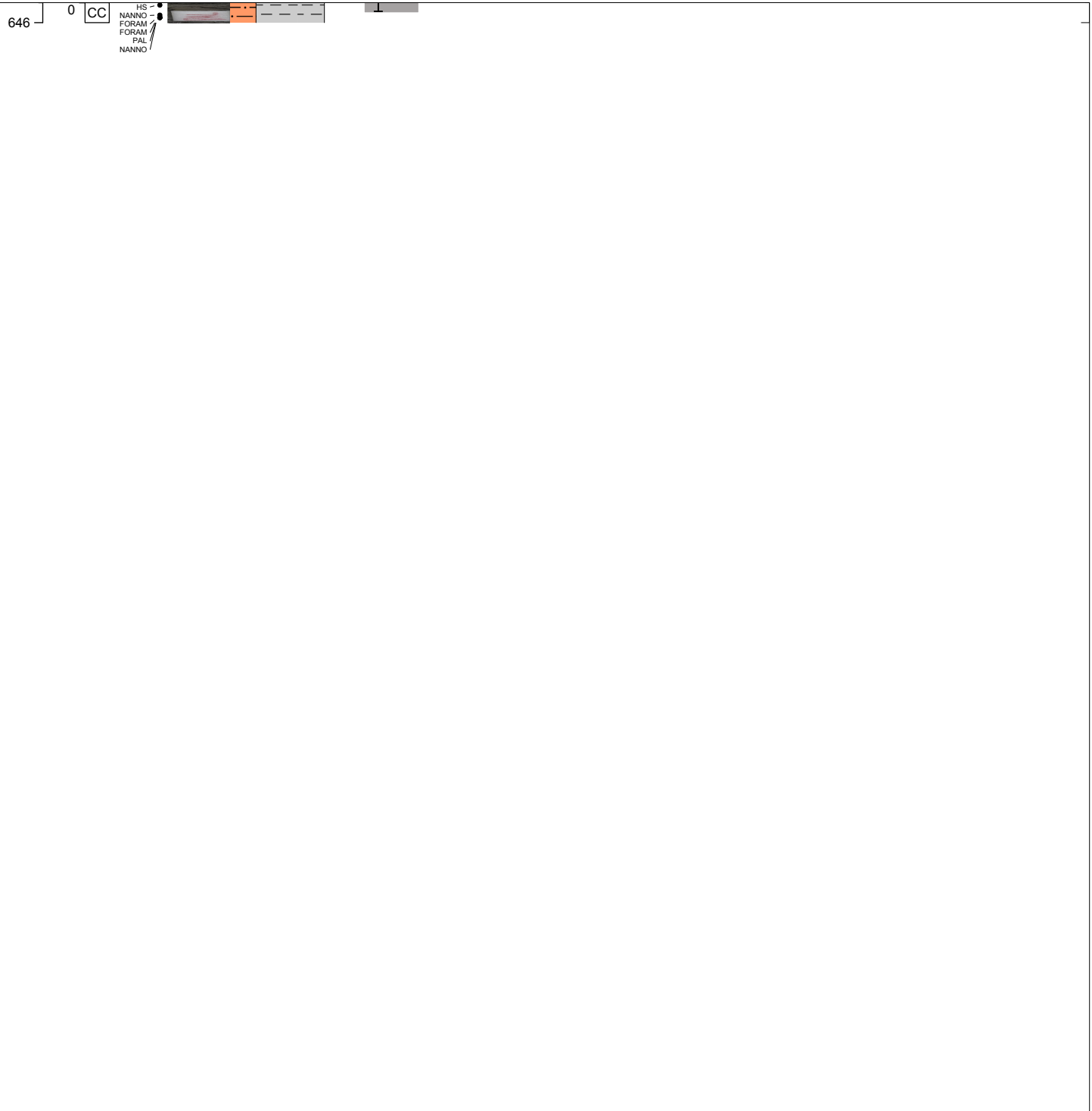
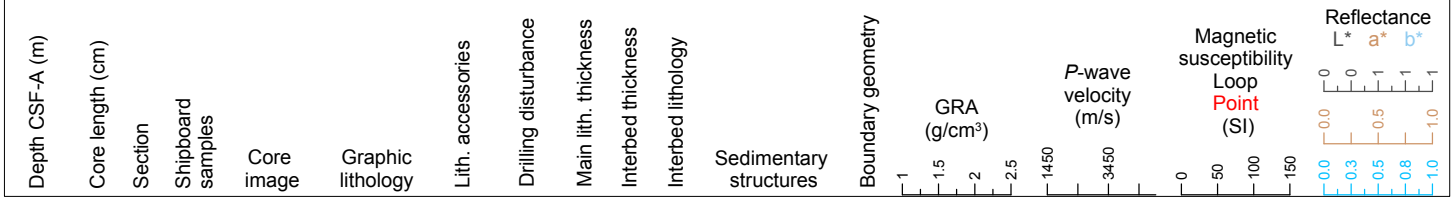
Major lithology: dark gray clayey silt with mica.



U1451B-141 Drilled interval

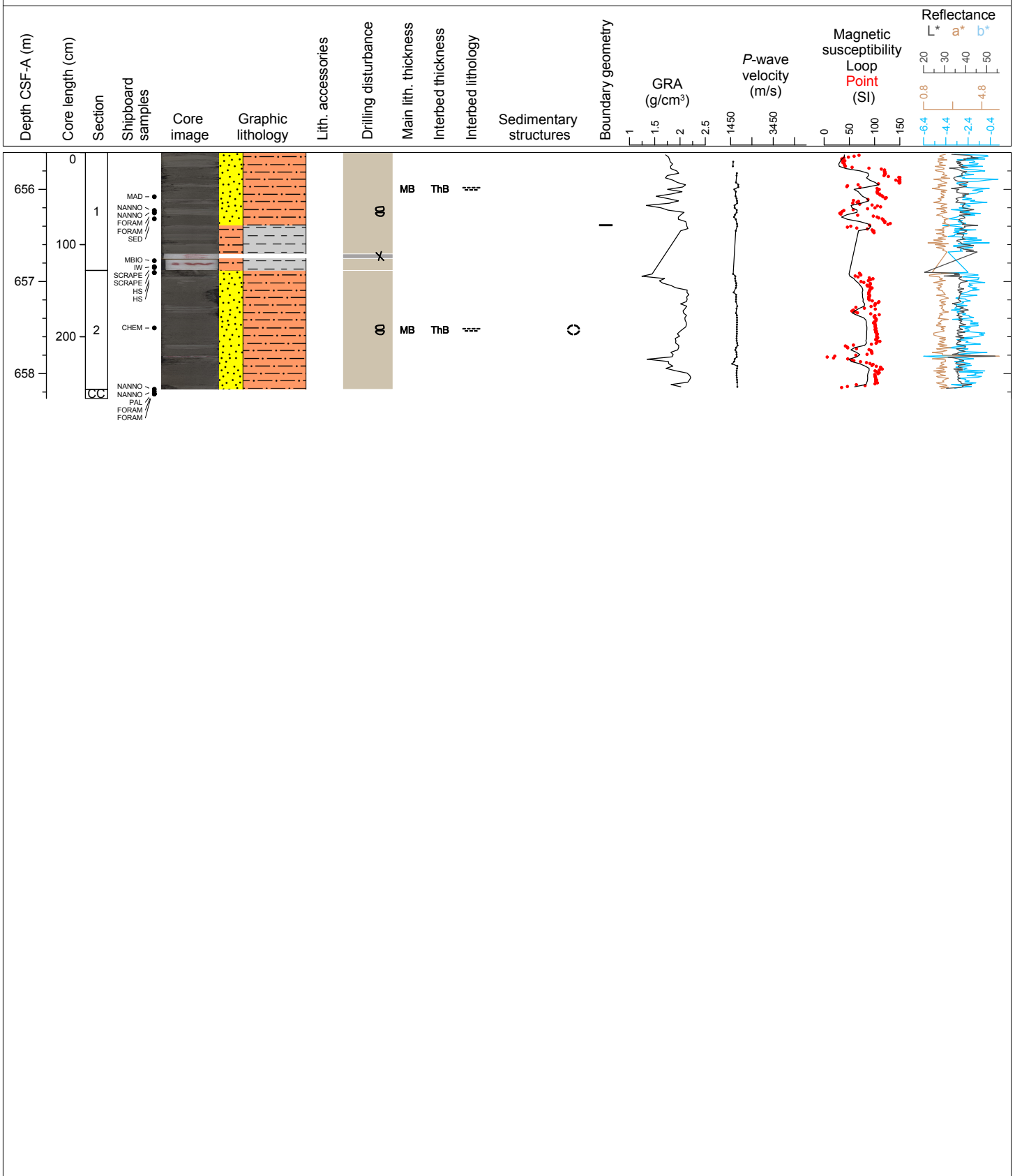
Hole 354-U1451B Core 15R, Interval 645.8-646.0 m (CSF-A)

Major lithology: gray silty clay.



Hole 354-U1451B Core 16R, Interval 655.6-658.27 m (CSF-A)

Major lithology: sandy silt with thin clay interbeds; Minor lithology: gray silty clay.



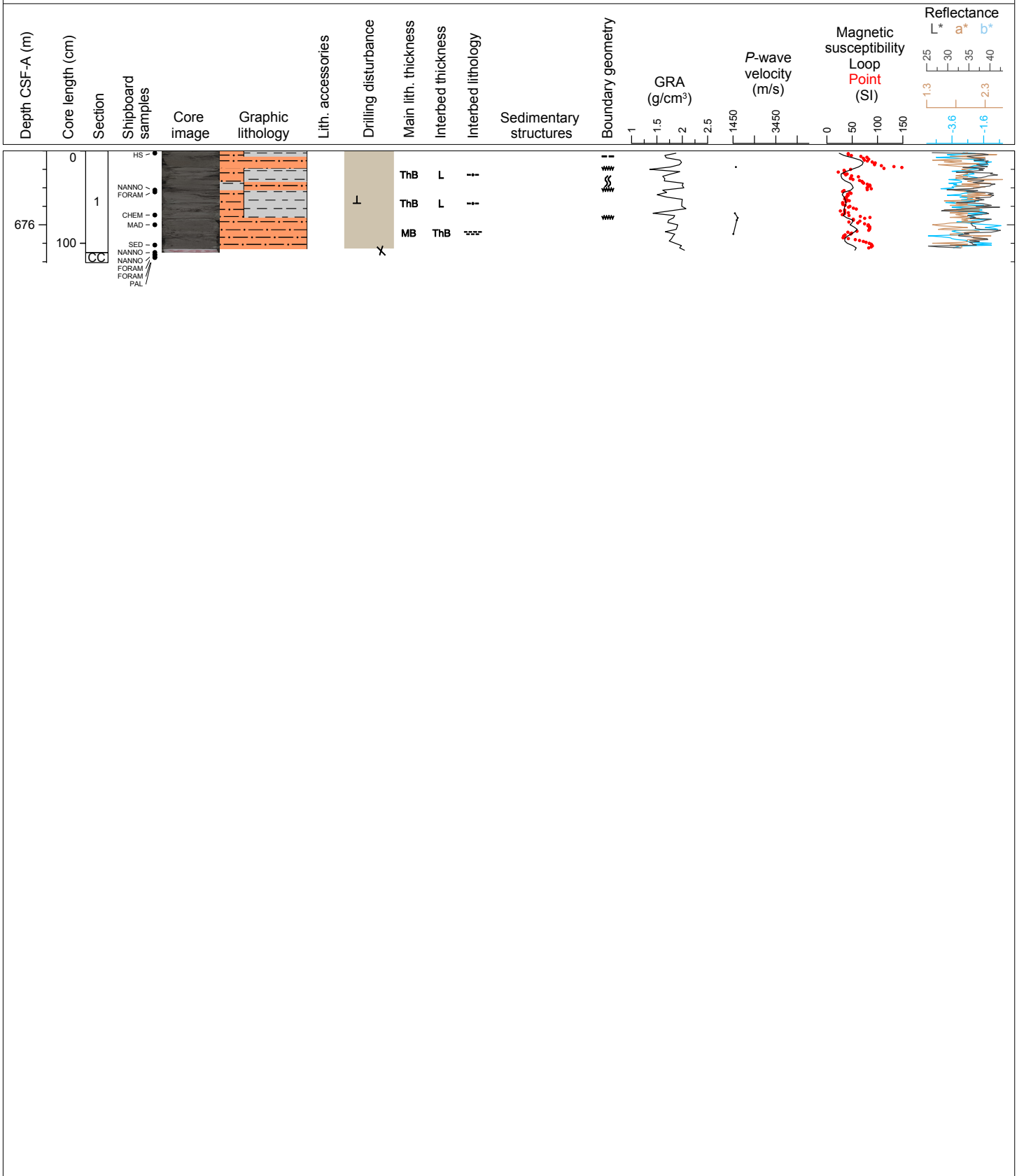
Hole 354-U1451B Core 17R, Interval 665.4-665.78 m (CSF-A)

Major lithology: gray silty clay with silt lamina; Minor lithology: gray silty clay



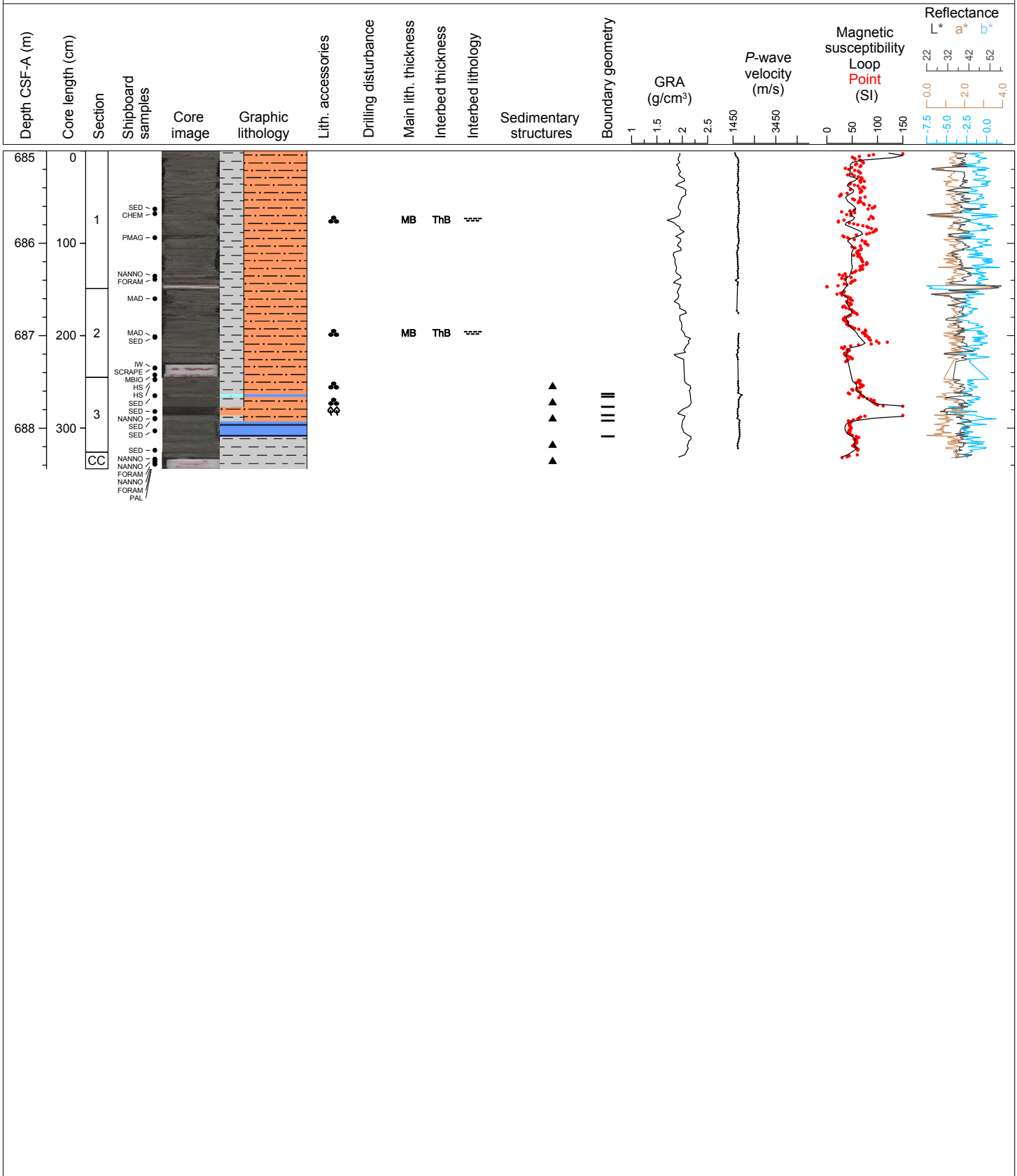
Hole 354-U1451B Core 18R, Interval 675.2-676.41 m (CSF-A)

Major lithology: dark gray silt; Minor lithology: gray silty clay.



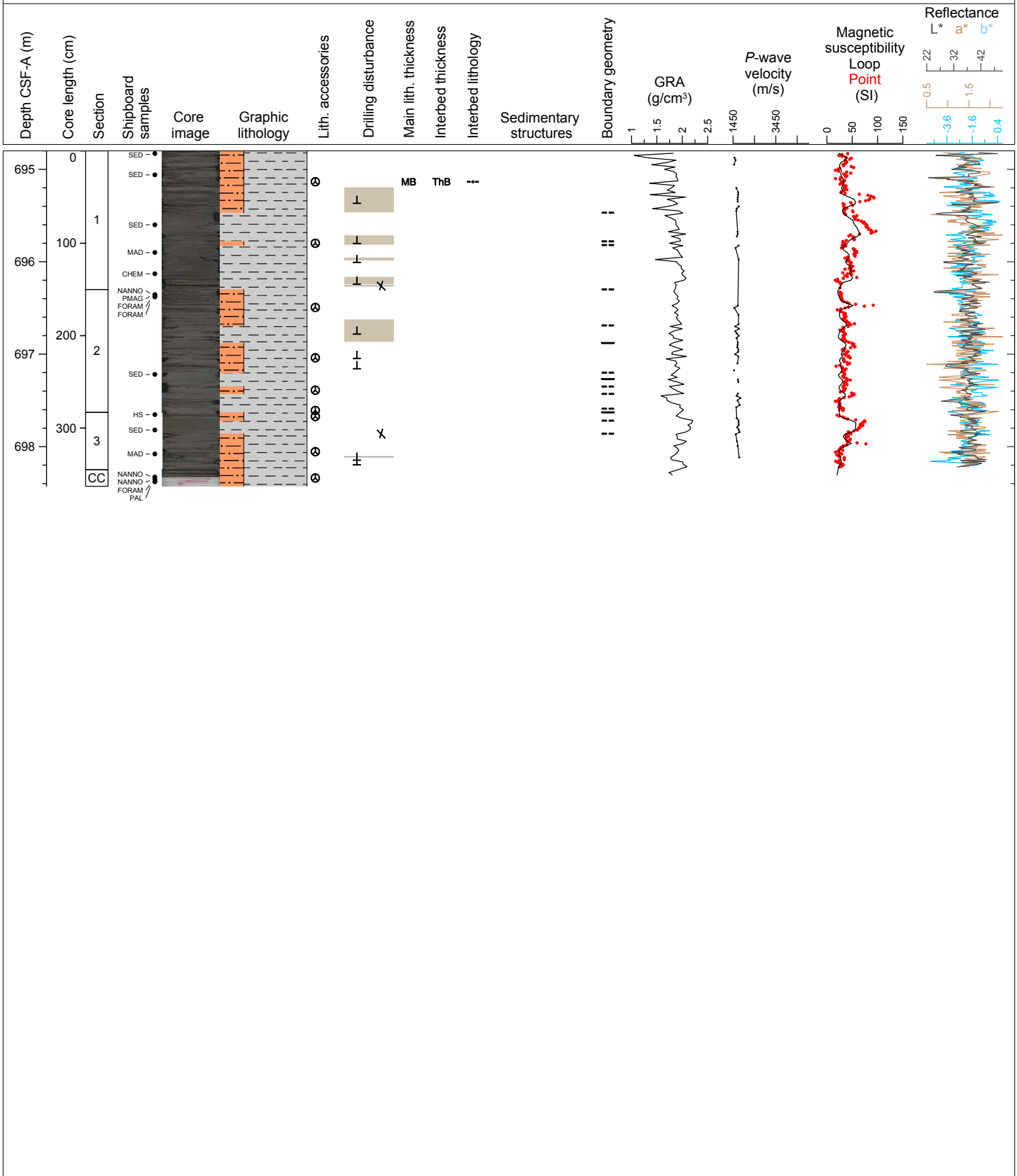
Hole 354-U1451B Core 19R, Interval 685.0-688.44 m (CSF-A)

Major lithology: clayey silt; Minor lithology: nannofossil-rich calcareous clay, plant-fragment-rich layer, and silt.



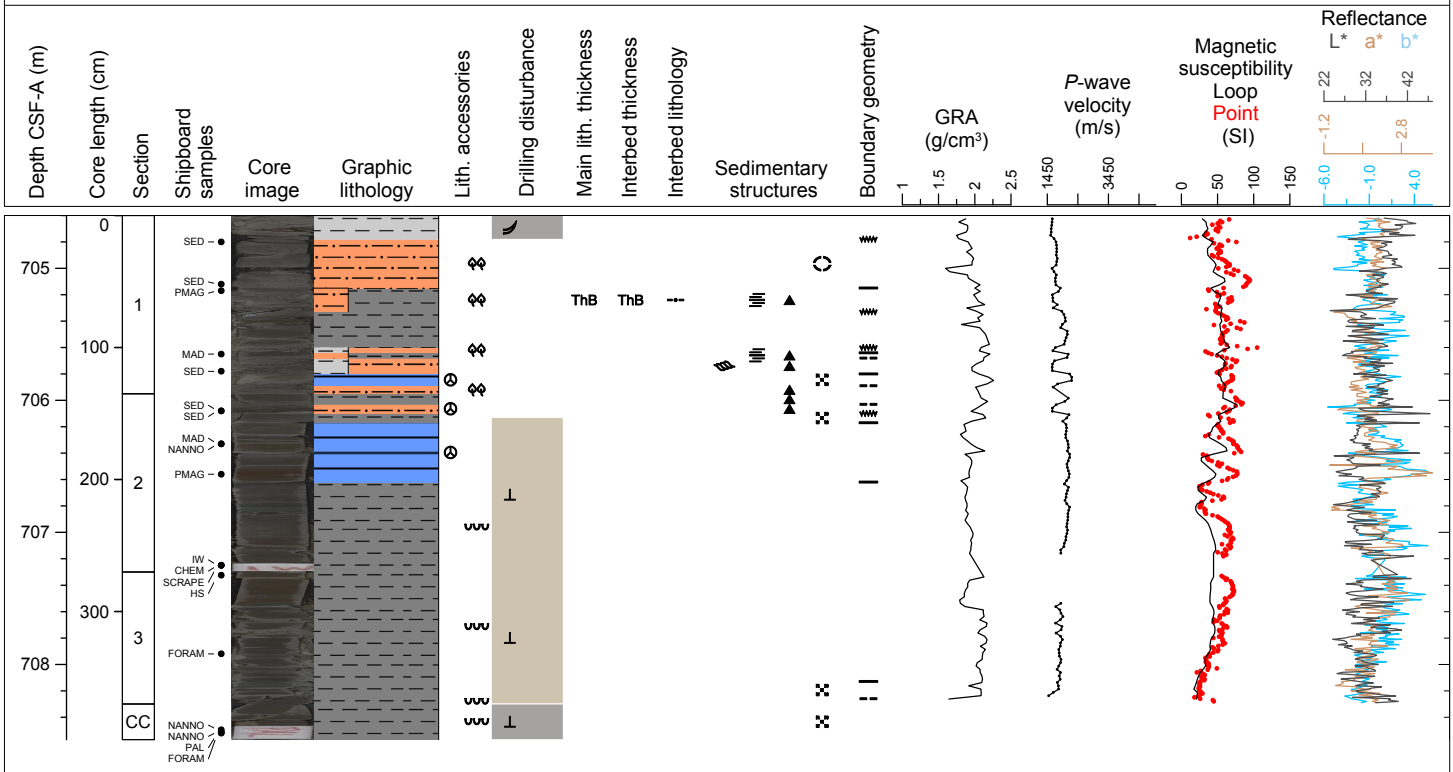
Hole 354-U1451B Core 20R, Interval 694.8-698.43 m (CSF-A)

Major lithology: dark gray silty calcareous clay with nannofossils; Minor lithology: dark gray clayey silt with nannofossils.



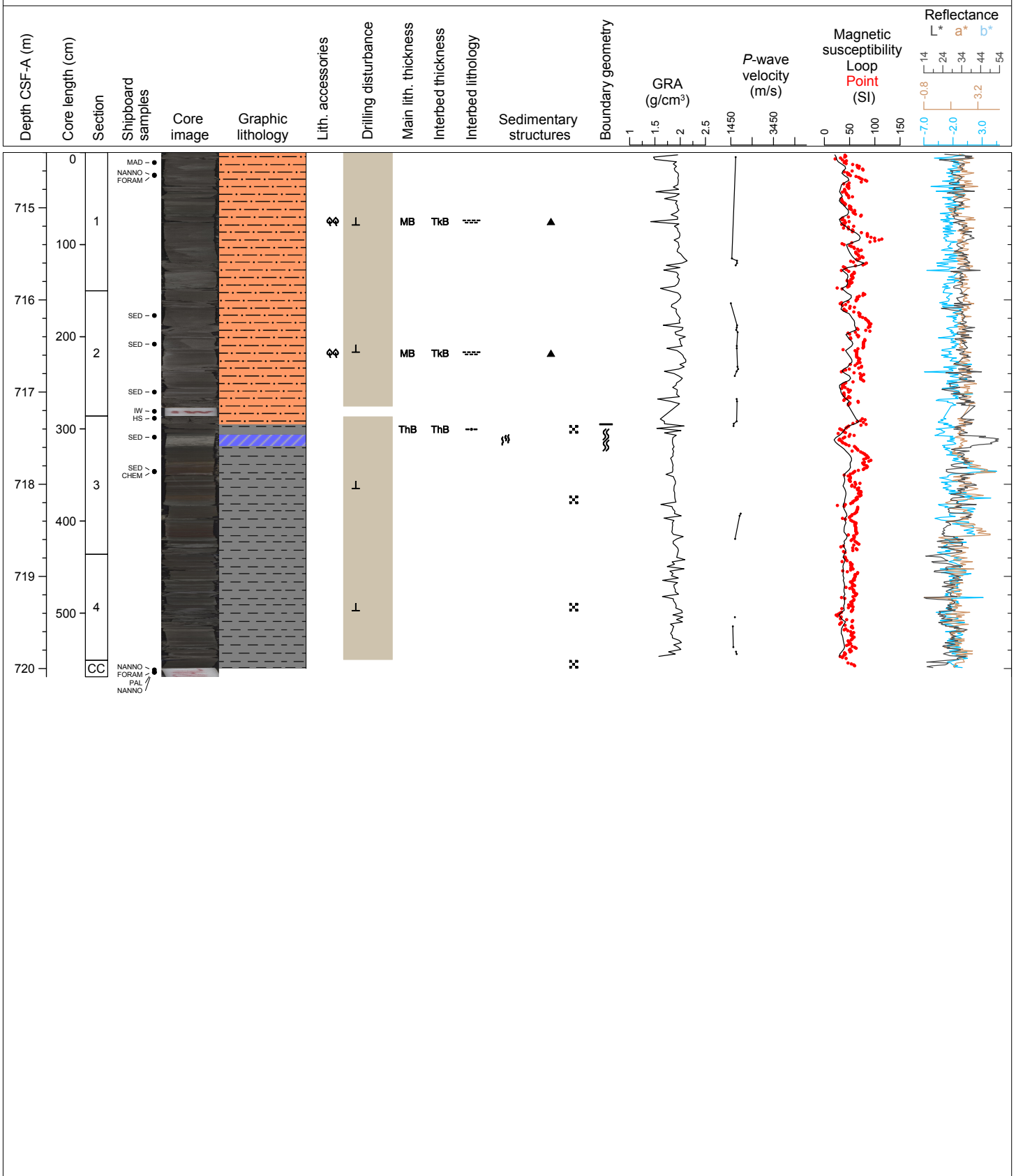
Hole 354-U1451B Core 21R, Interval 704.6-708.57 m (CSF-A)

Major lithology: claystone; Minor lithology: claystone with ash, laminated clayey silt fining up into silty clay.



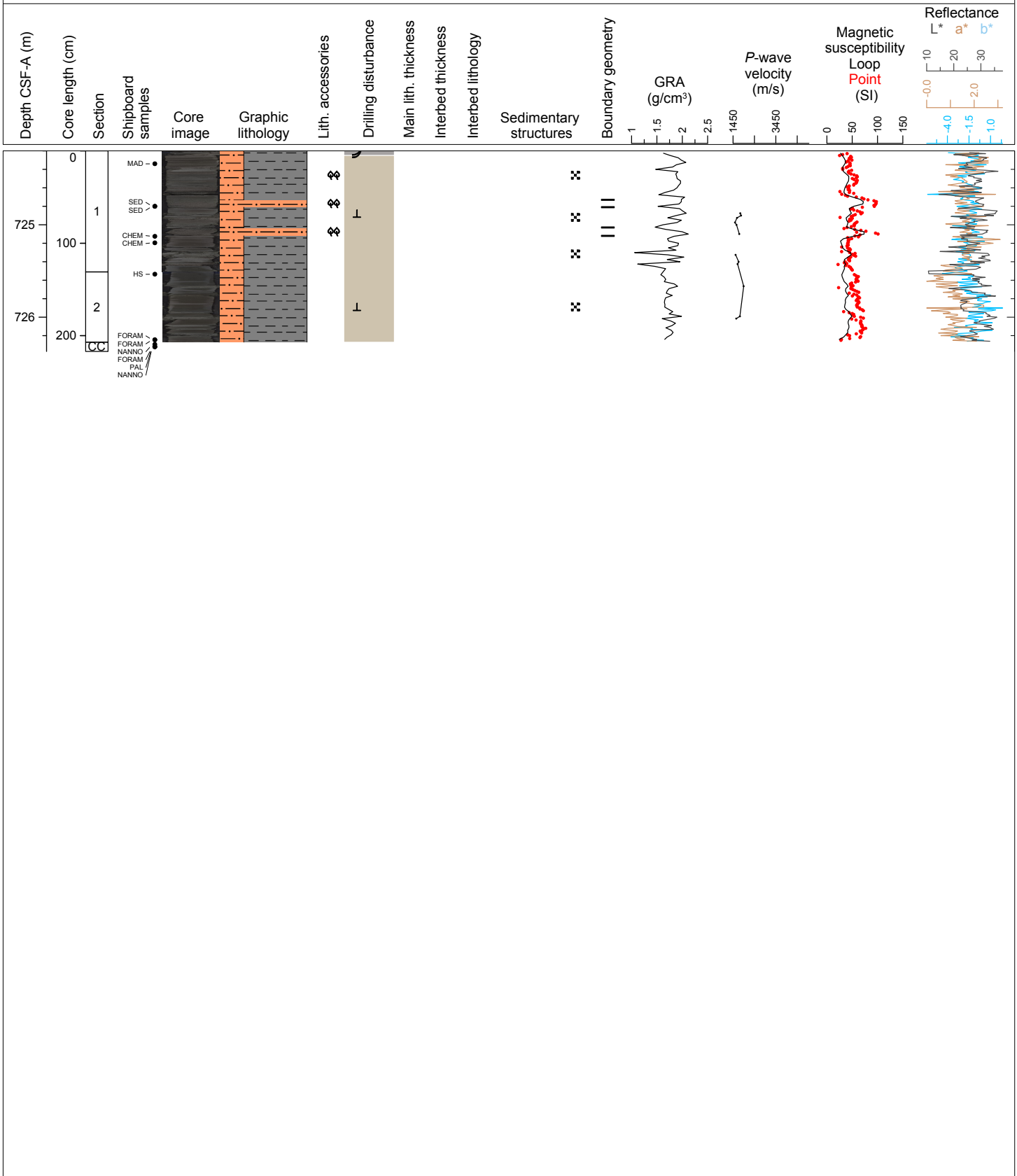
Hole 354-U1451B Core 22R, Interval 714.4-720.09 m (CSF-A)

Major lithology: brown silt with plant fragments; Minor lithology: claystone with gradational color changes between gray and reddish brown and mottling.



Hole 354-U1451B Core 23R, Interval 724.2-726.37 m (CSF-A)

Major lithology: gray silty claystone. Minor lithology: gray silt with plant fragments.



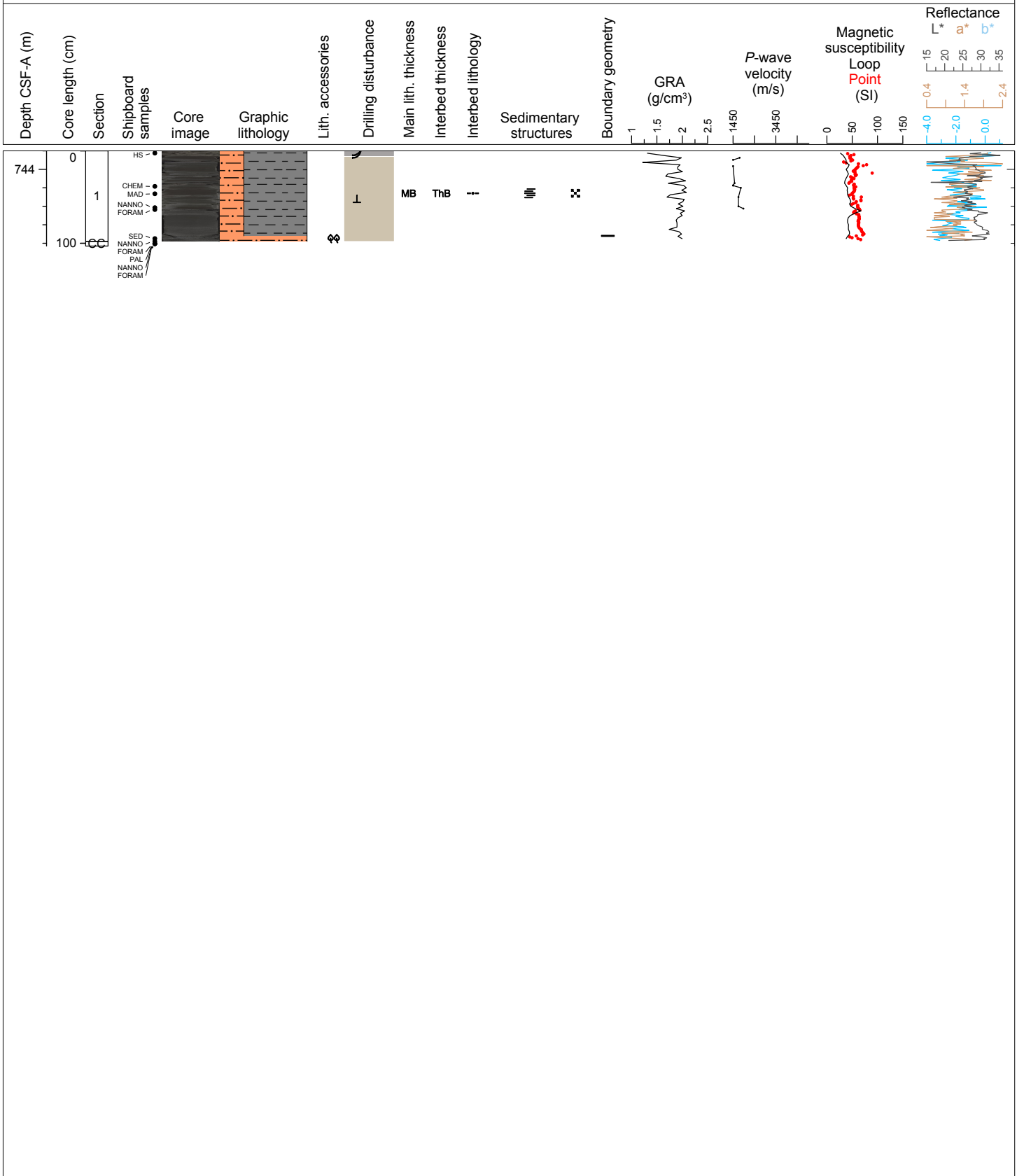
Hole 354-U1451B Core 24R, Interval 734.0-734.19 m (CSF-A)

Major lithology: reddish brown siltstone with burrows.



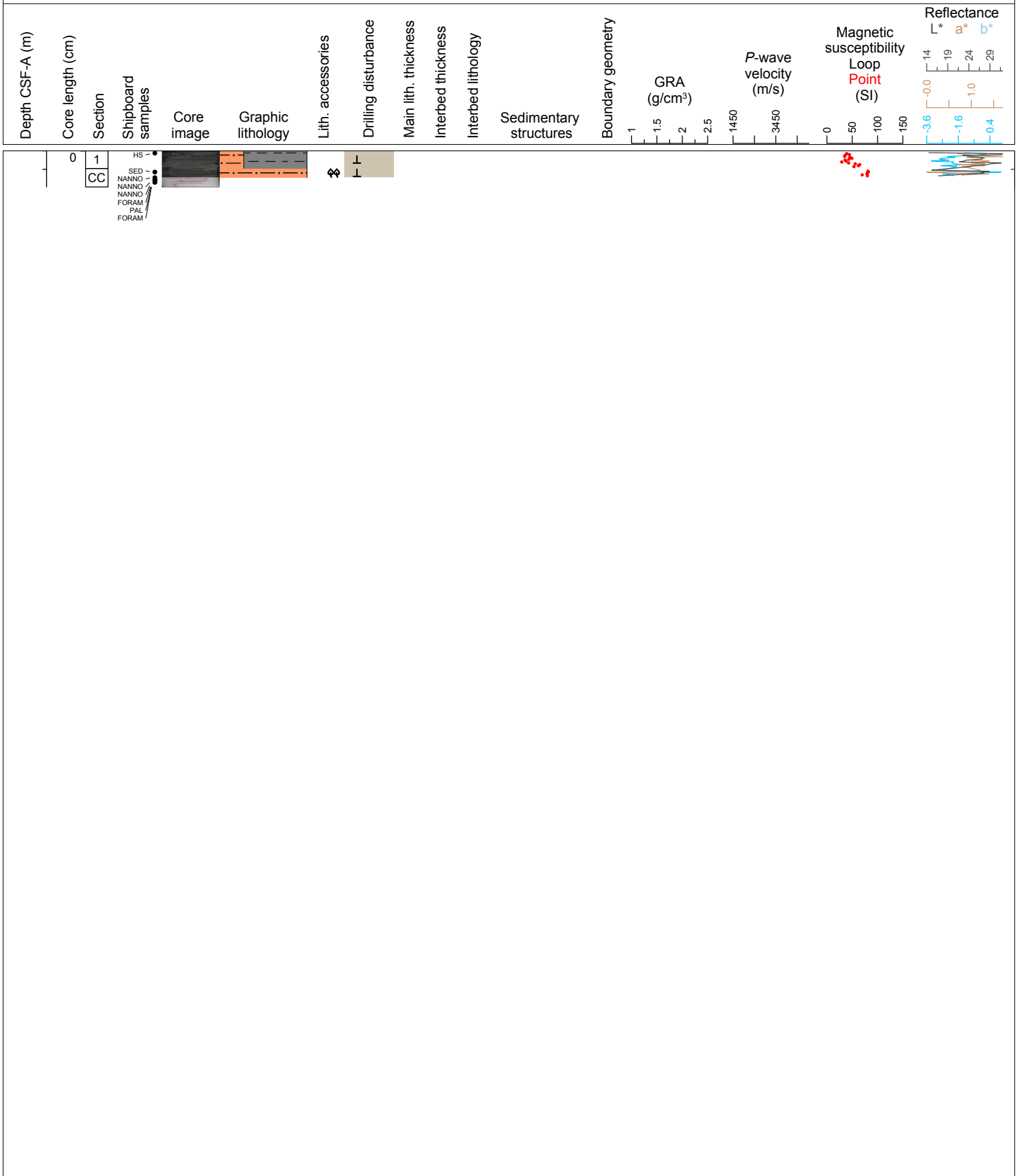
Hole 354-U1451B Core 25R, Interval 743.8-744.83 m (CSF-A)

Major lithology: gray silty claystone; Minor lithology: gray silt with plant fragments.



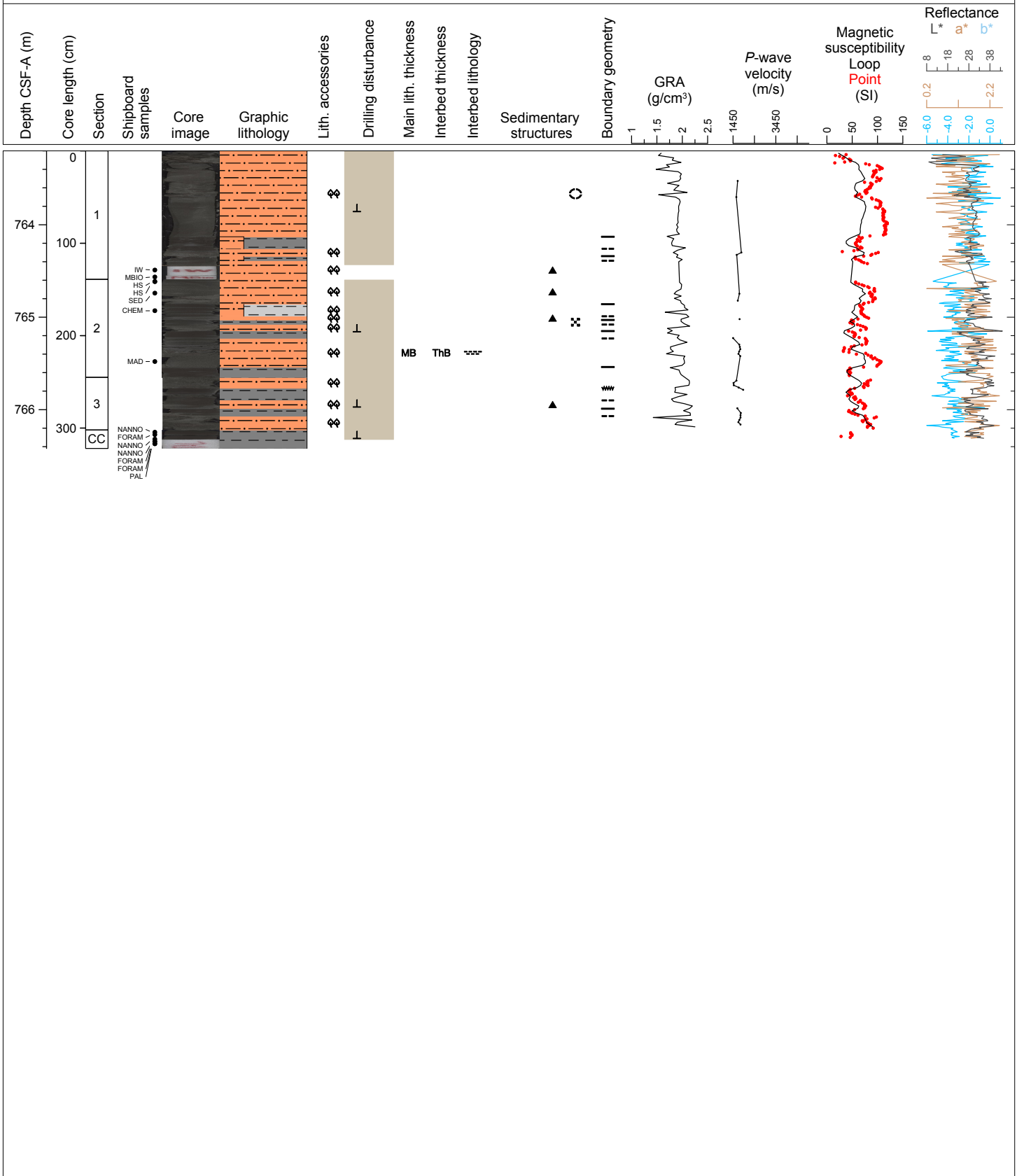
Hole 354-U1451B Core 26R, Interval 753.6-753.99 m (CSF-A)

Major lithology: gray silty claystone; Minor lithology: gray silt with plant fragments.



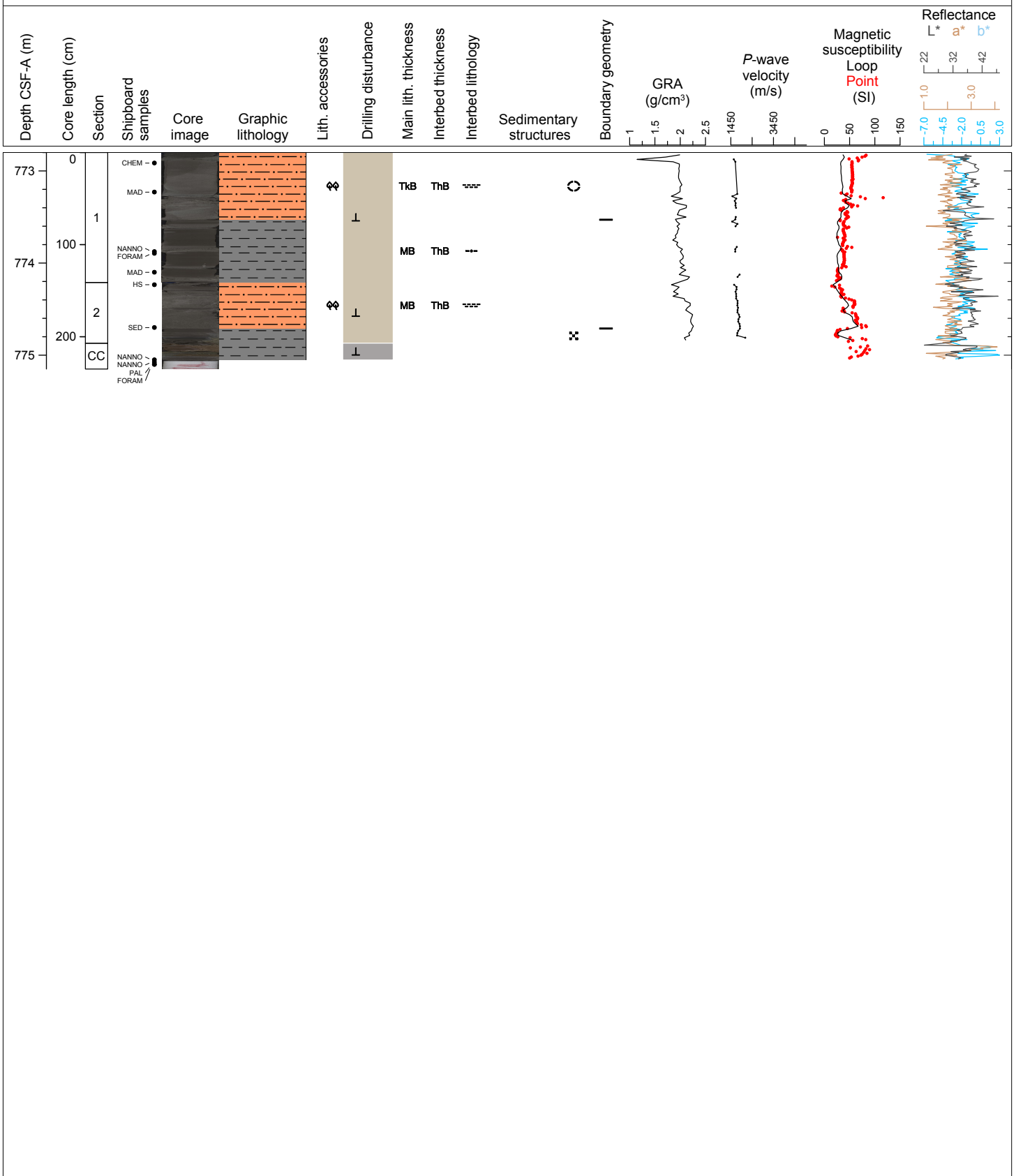
Hole 354-U1451B Core 27R, Interval 763.2-766.42 m (CSF-A)

Major lithology: gray silt with plant fragments; Minor lithology: gray silty claystone.



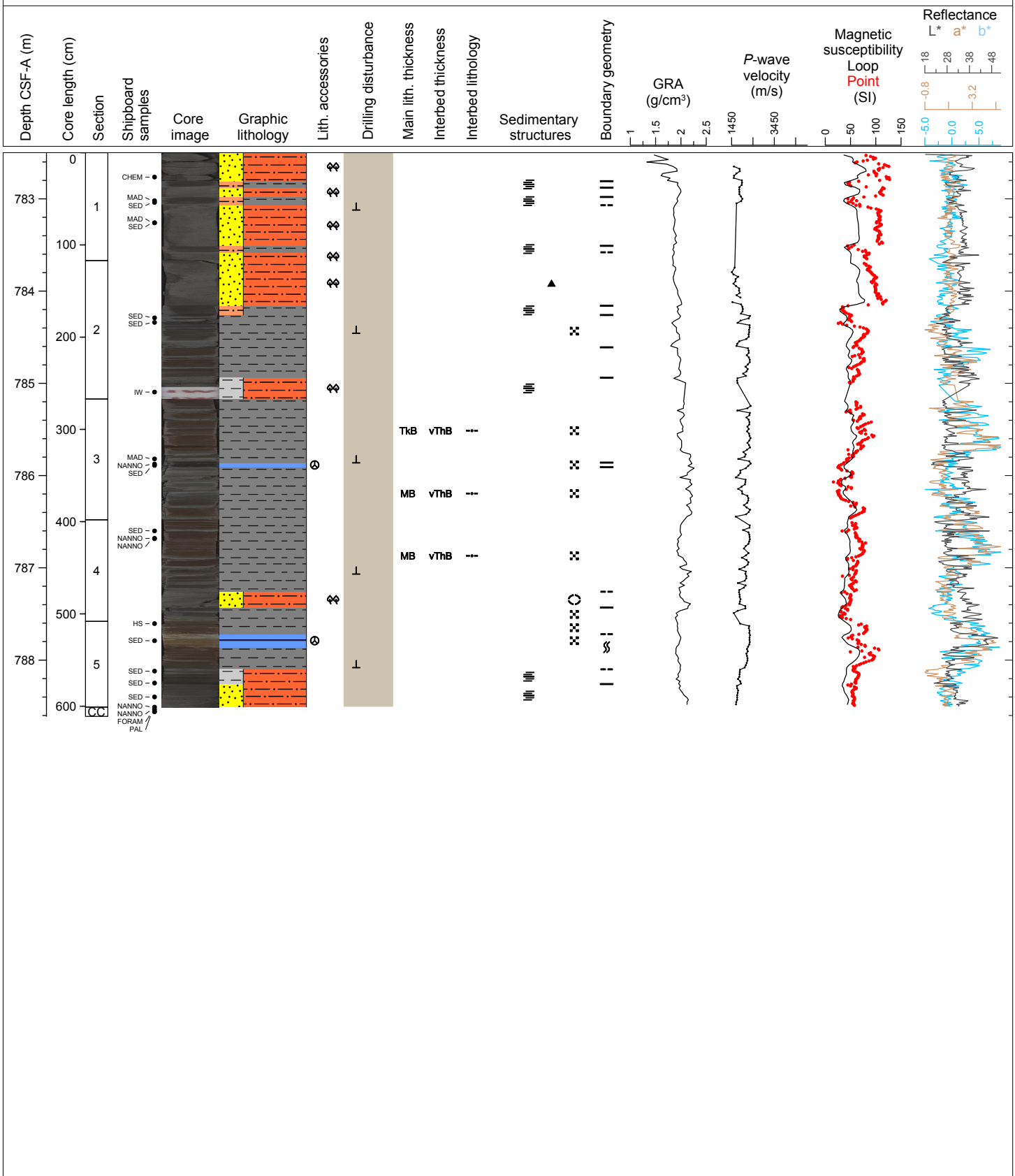
Hole 354-U1451B Core 28R, Interval 772.8-775.15 m (CSF-A)

Major lithology: gray silt with plant fragments and thin clay interbeds; Minor lithology: gray to brown claystone.



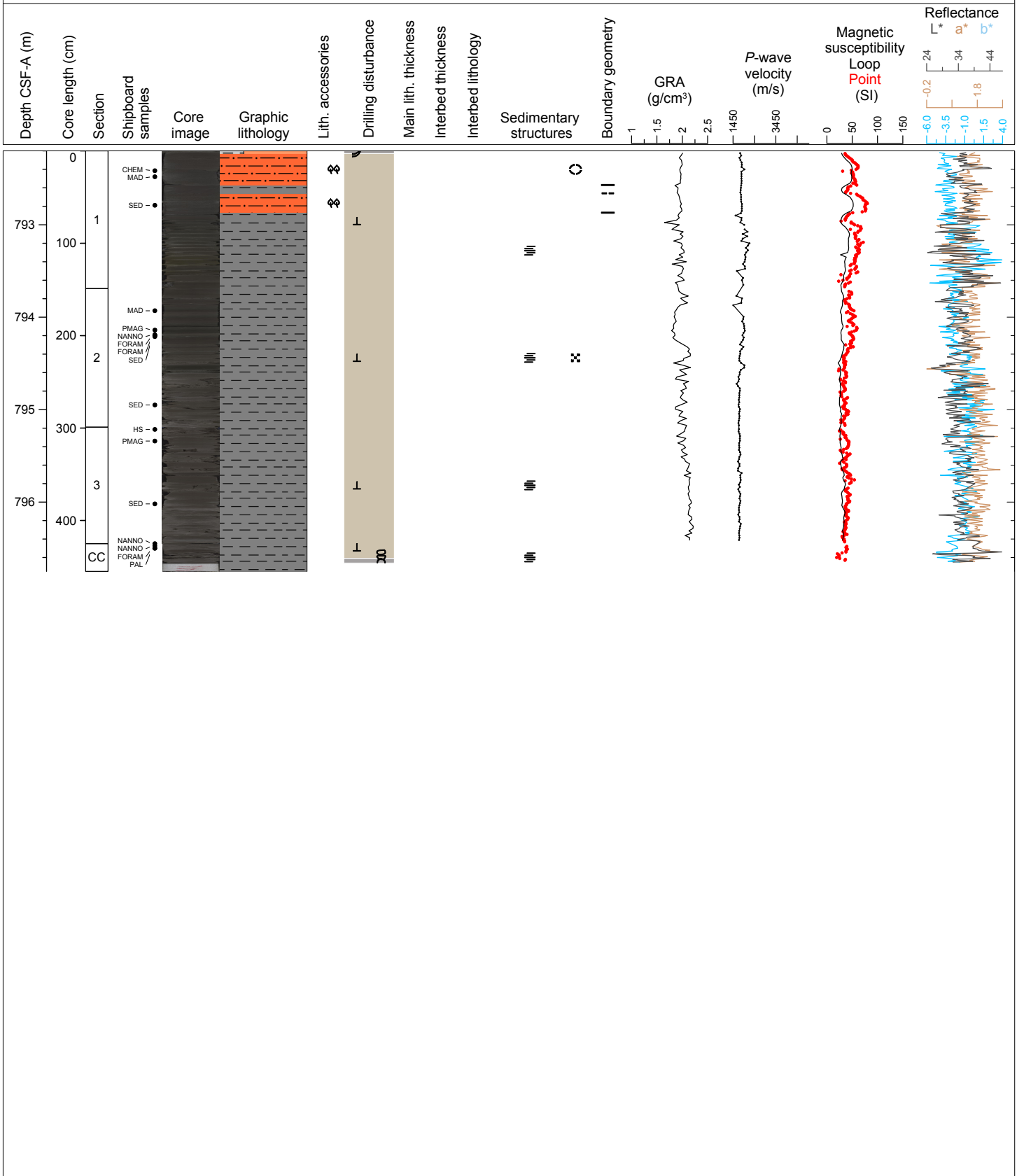
Hole 354-U1451B Core 29R, Interval 782.5-788.61 m (CSF-A)

Major lithology: brown claystone; Minor lithology: green claystone, fine-sandy siltstone and laminated gray claystone.



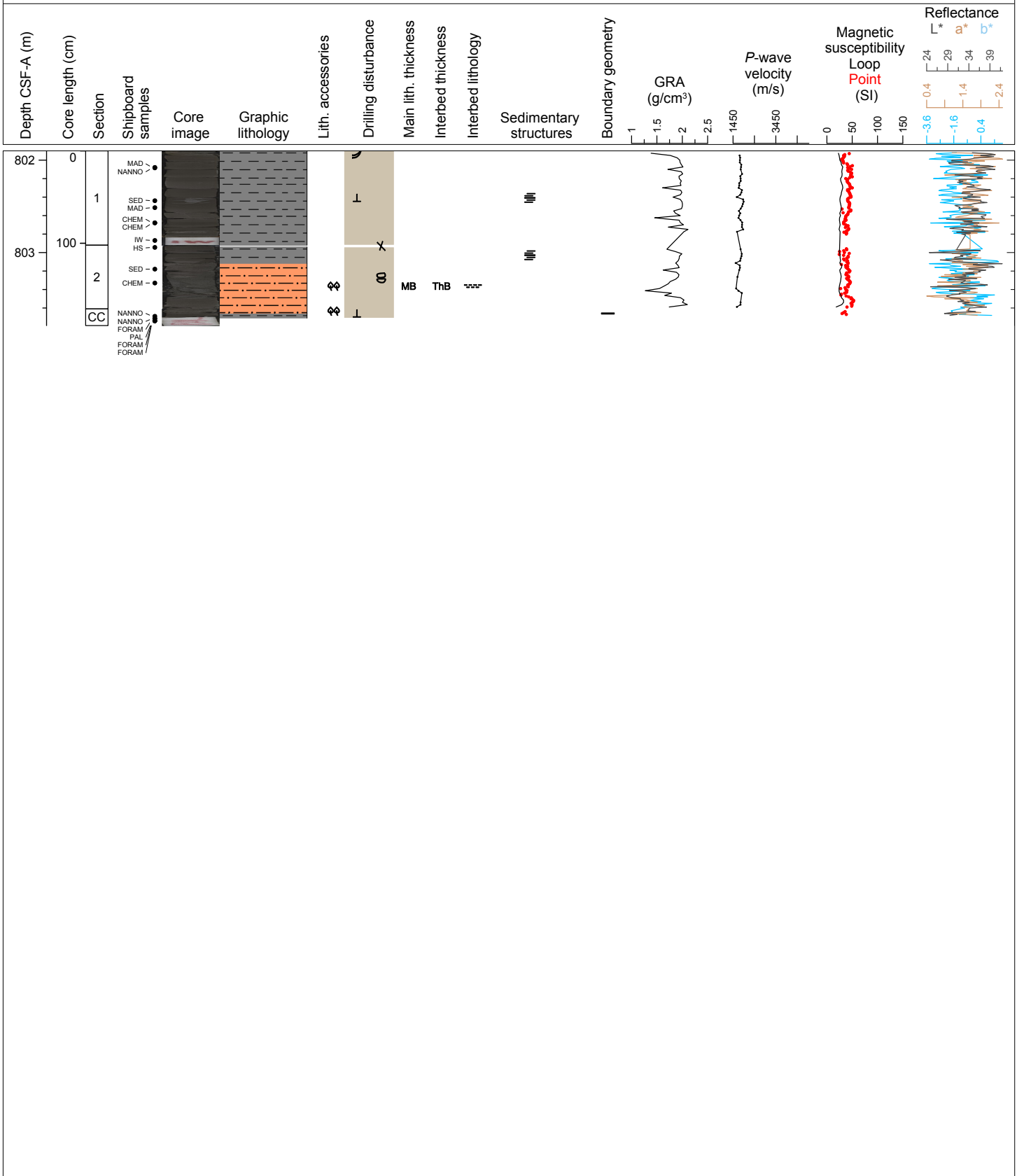
Hole 354-U1451B Core 30R, Interval 792.2-796.75 m (CSF-A)

Major lithology: gray laminated claystone; Minor lithology: gray silt with dispersed plant fragments.



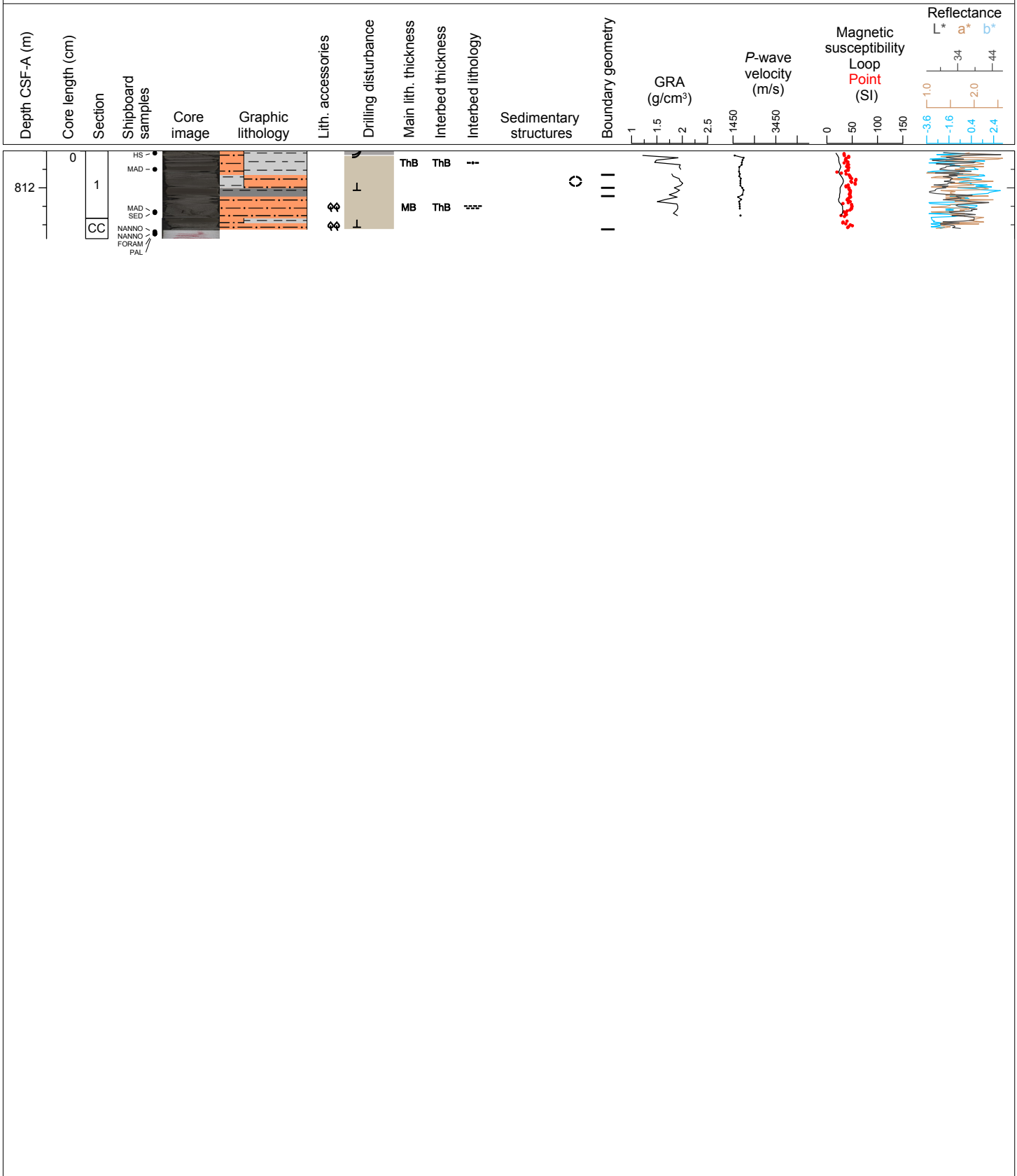
Hole 354-U1451B Core 31R, Interval 801.9-803.79 m (CSF-A)

Major lithology: gray claystone with lamination; Minor lithology: gray silt with plant fragments.



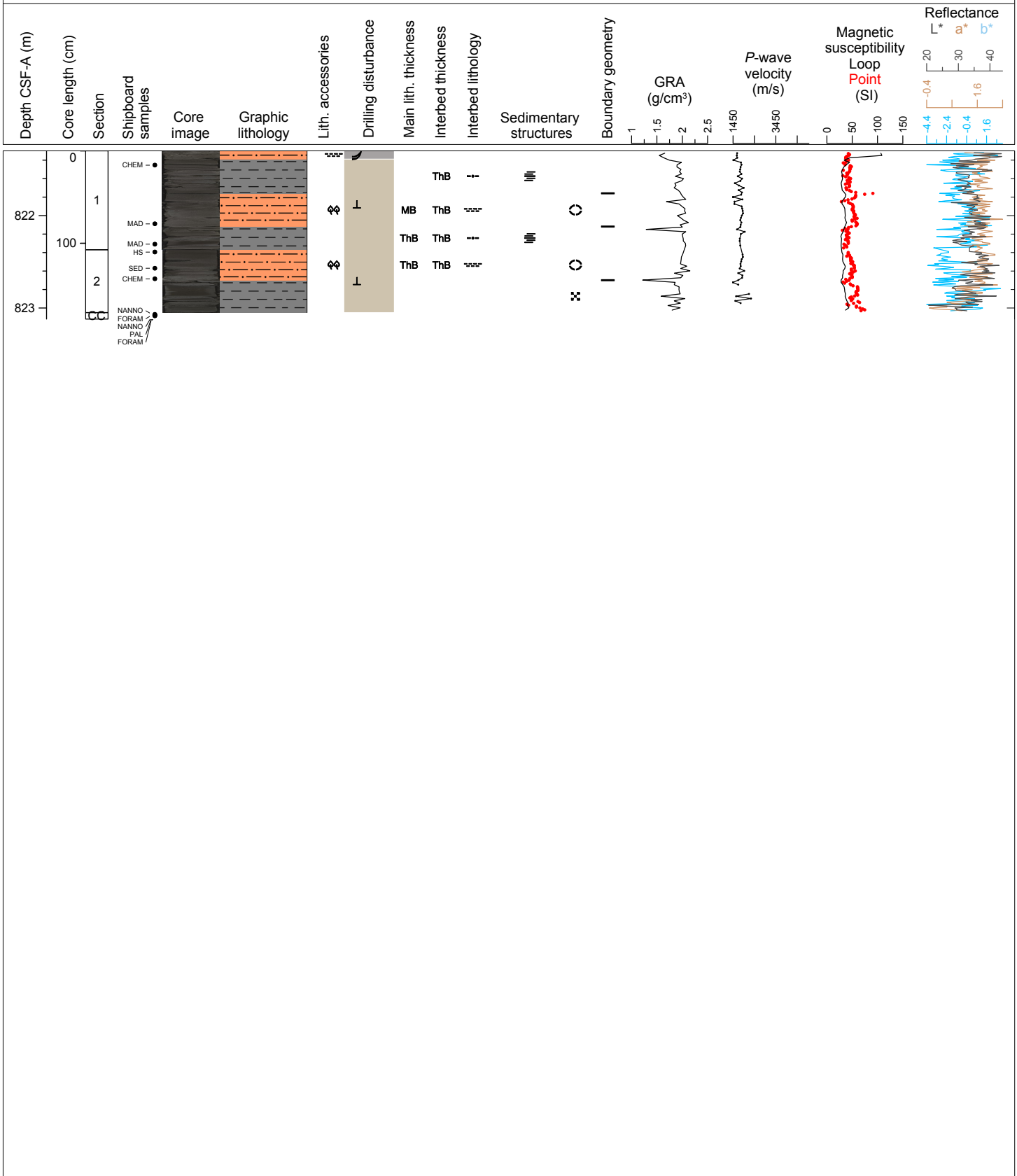
Hole 354-U1451B Core 32R, Interval 811.6-812.55 m (CSF-A)

Major lithology: gray clay, gray clayey silt with plant fragments; Minor lithology: claystone.



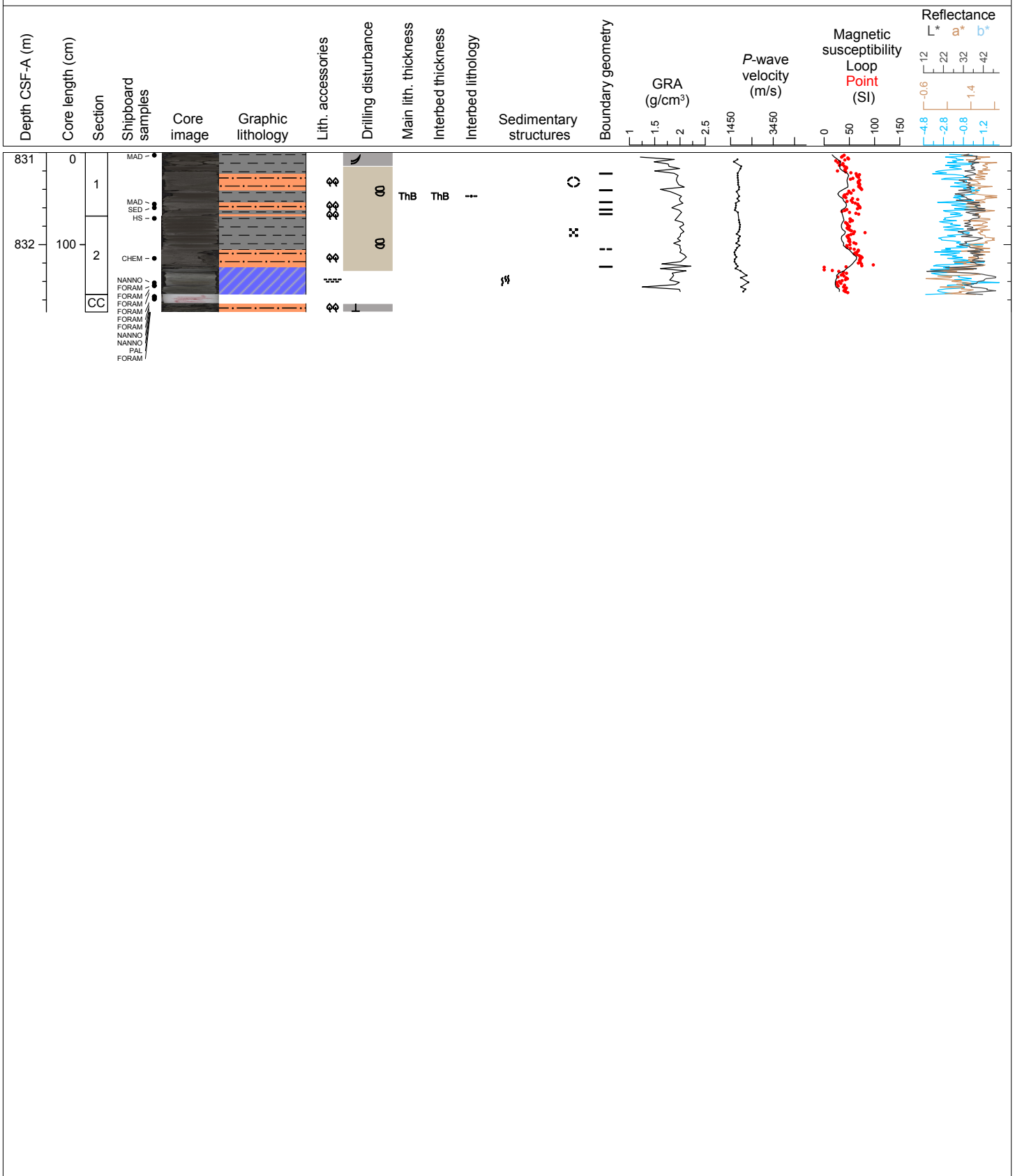
Hole 354-U1451B Core 33R, Interval 821.3-823.12 m (CSF-A)

Major lithology: gray silt with plant fragments; Minor lithology: gray claystone with lamination.



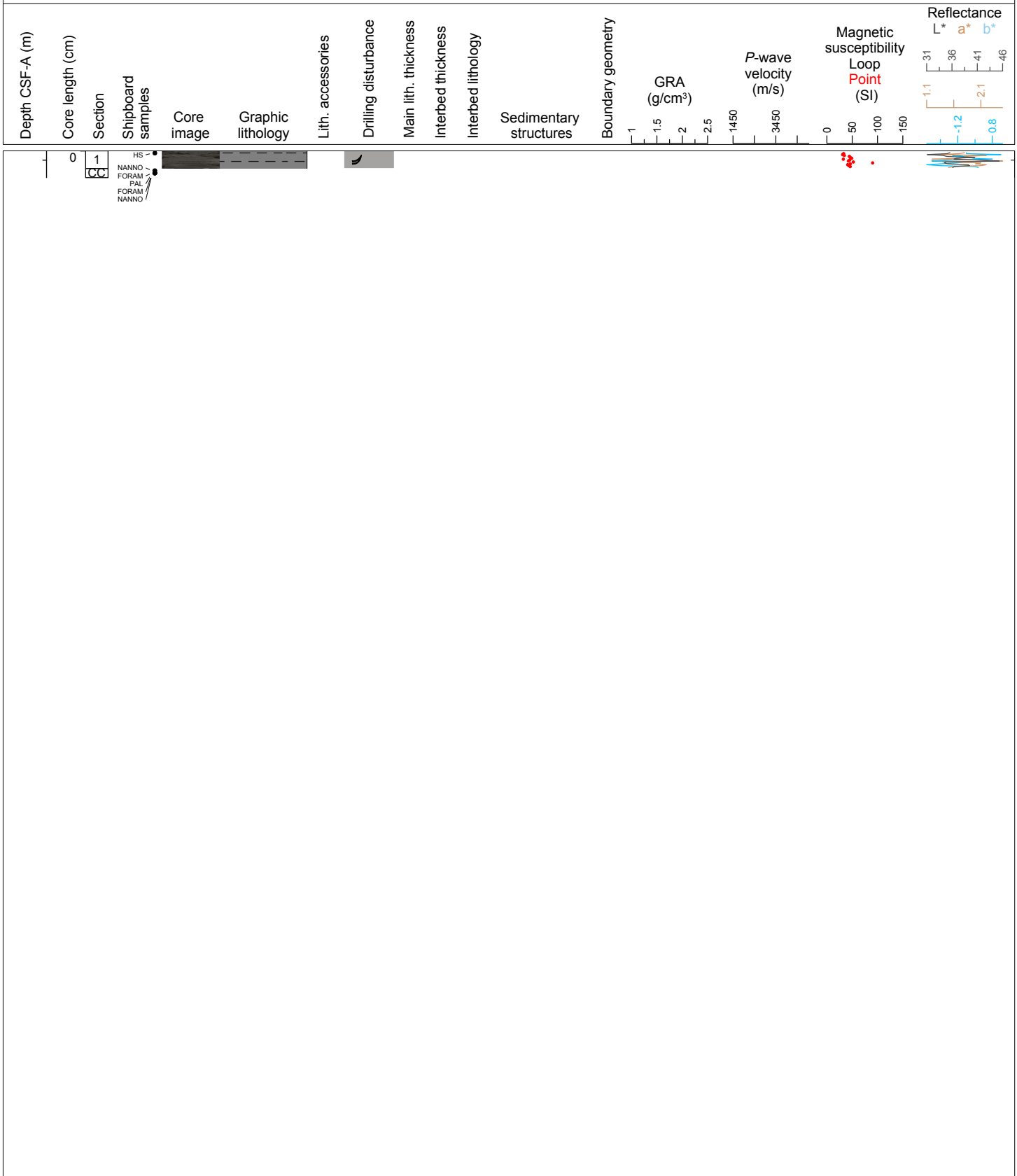
Hole 354-U1451B Core 34R, Interval 831.0-832.73 m (CSF-A)

Major lithology: medium bedded silt with plant fragments and thin interbeds of claystone in the top half of the core. The bottom half is dominated by claystone with thin silt interbeds and calcareous claystone.



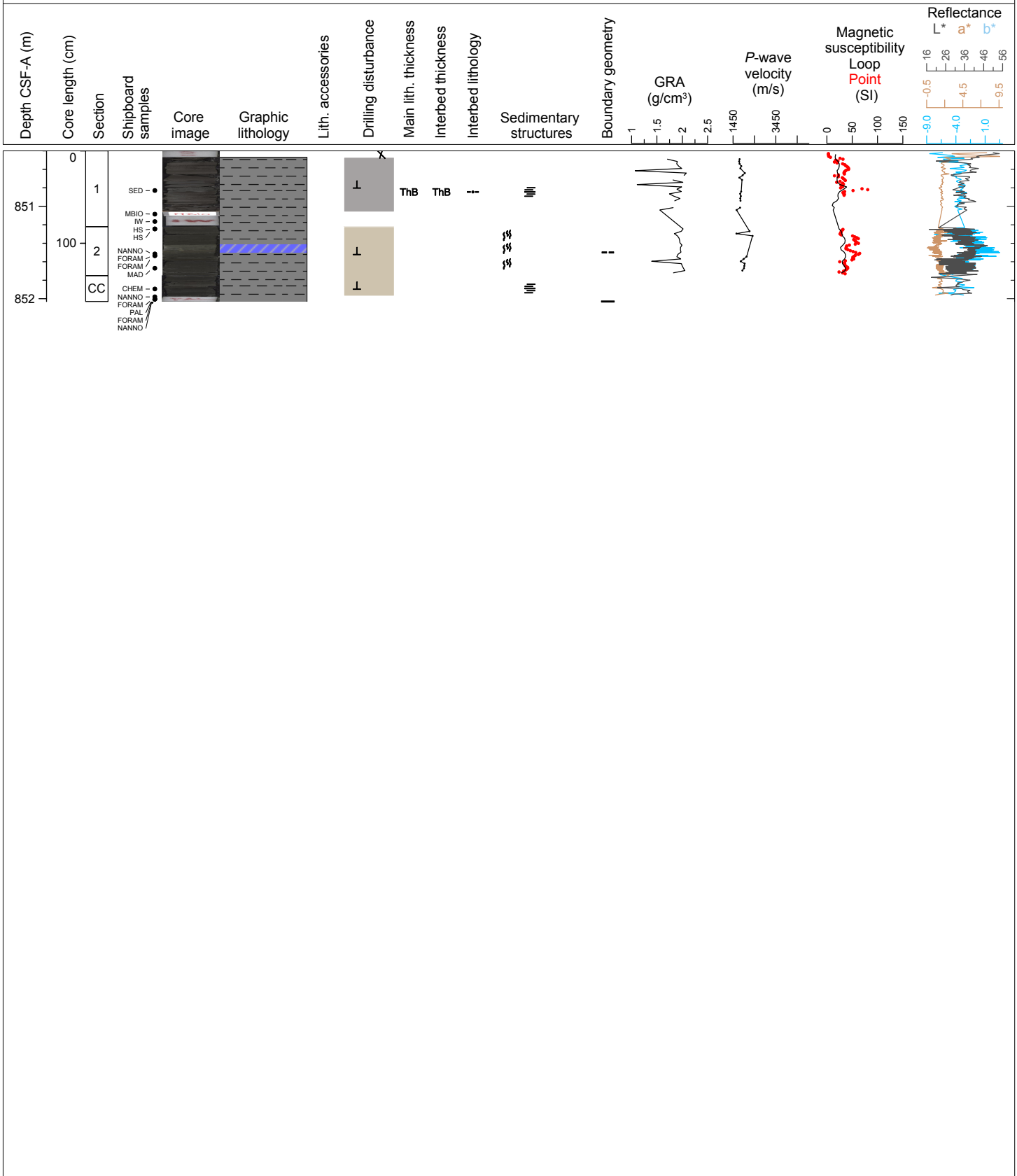
Hole 354-U1451B Core 35R, Interval 840.7-840.99 m (CSF-A)

Major lithology: claystone clasts in a soft clay matrix.



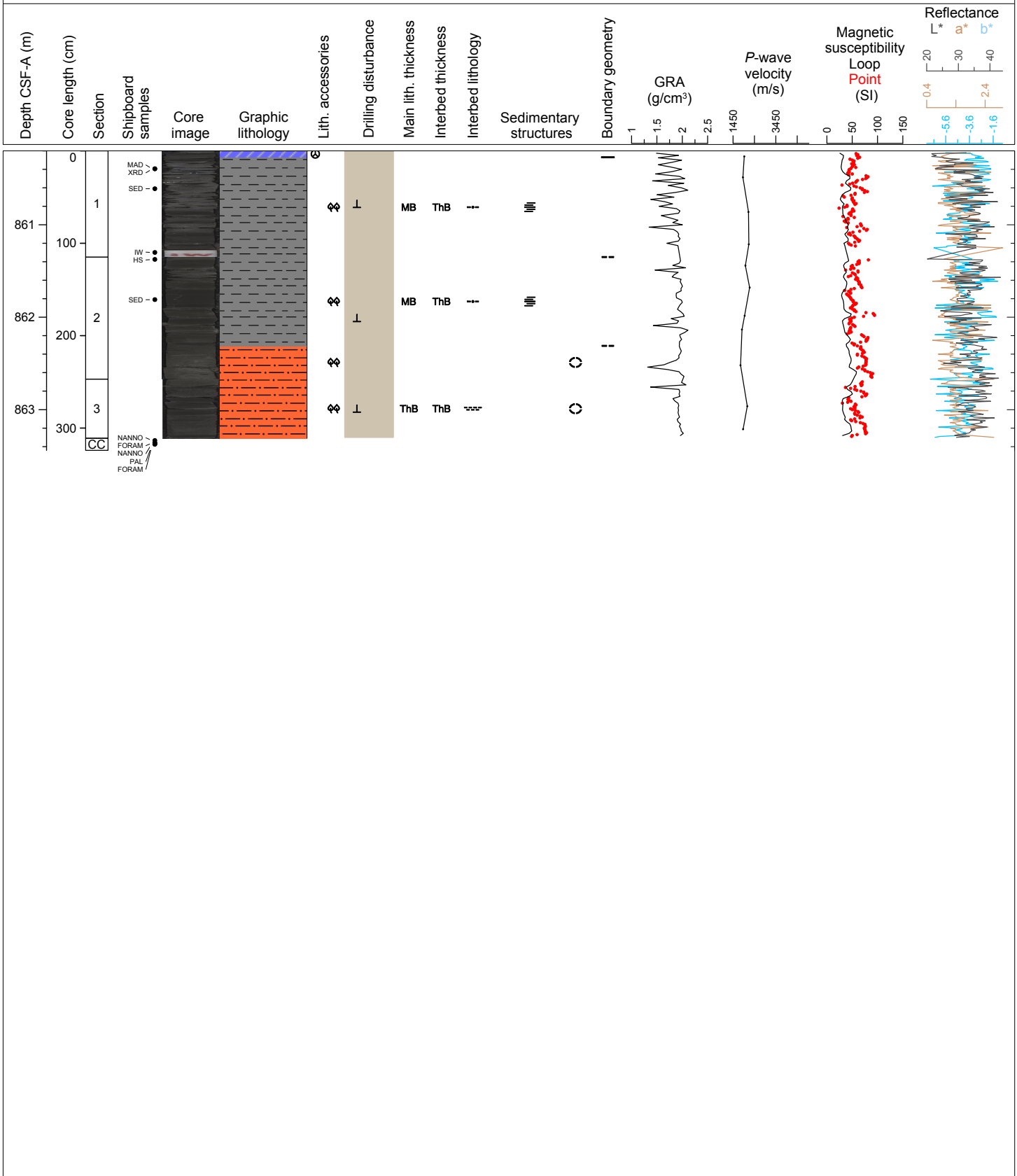
Hole 354-U1451B Core 36R, Interval 850.4-852.03 m (CSF-A)

Major lithology: dark gray claystone with pararell laminations. Minor lithology: calcareous claystone.



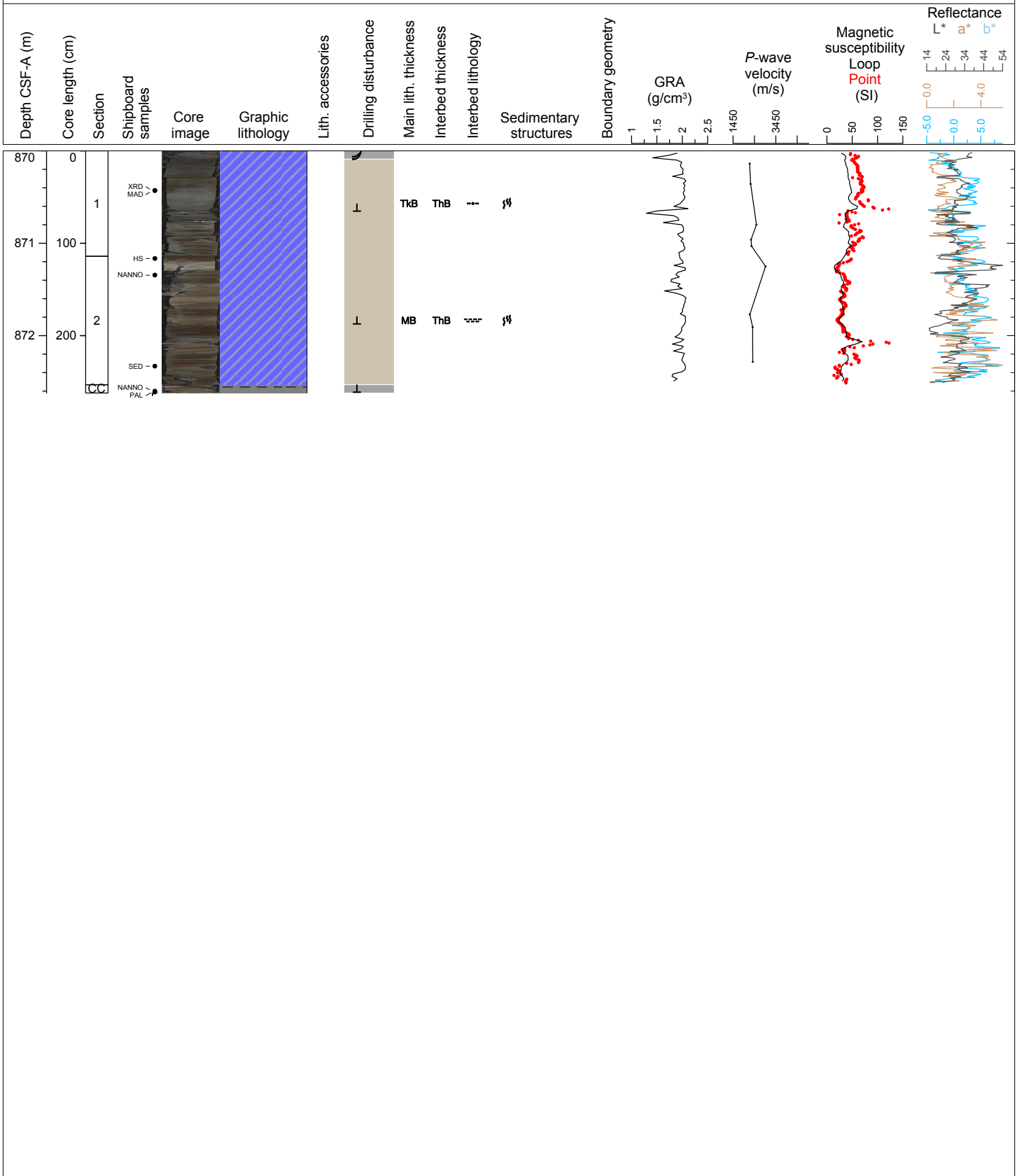
Hole 354-U1451B Core 37R, Interval 860.2-863.44 m (CSF-A)

Major lithology: gray siltstone with plant fragments and mud clasts; Minor lithology: laminated gray claystone.



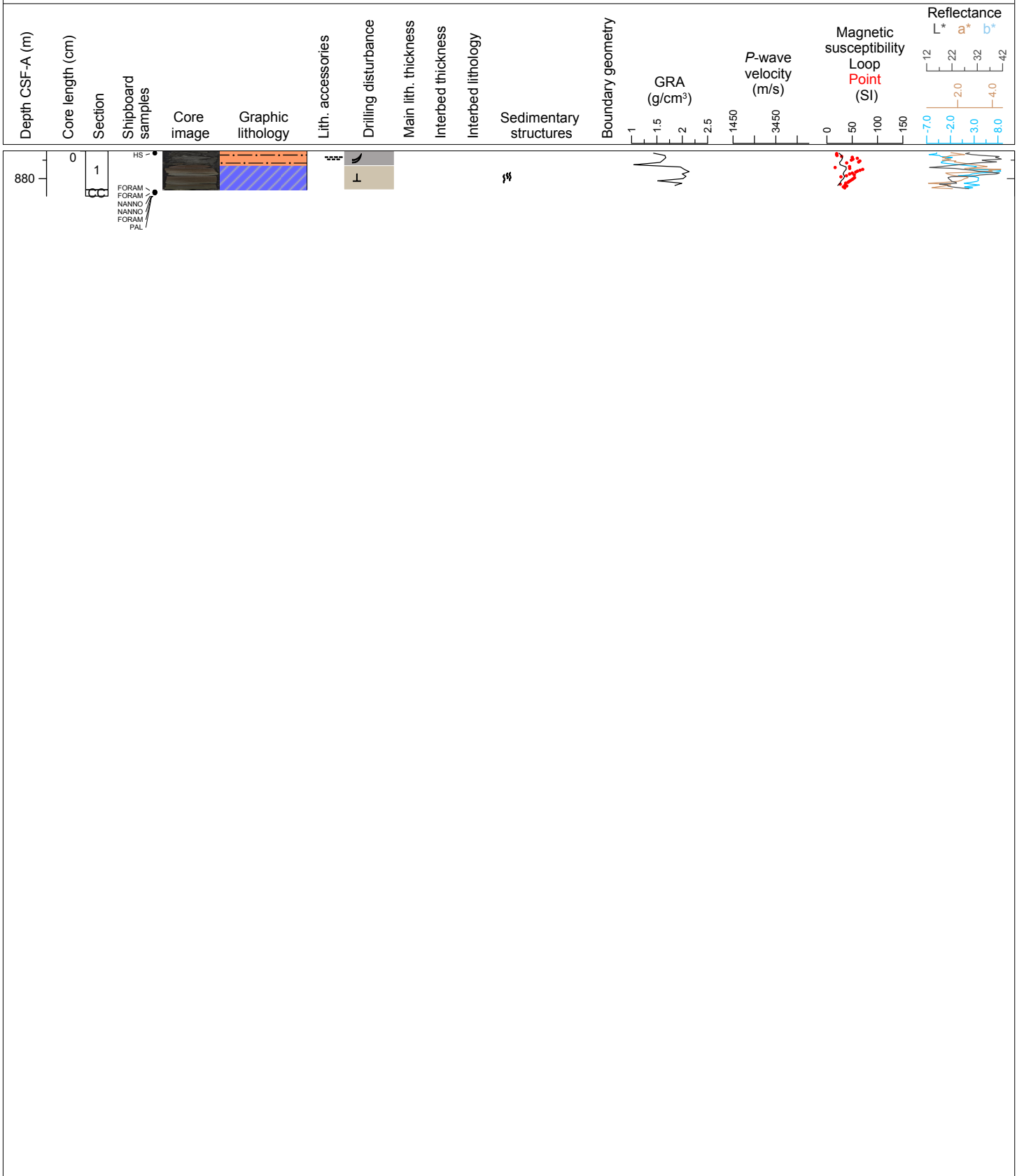
Hole 354-U1451B Core 38R, Interval 870.0-872.62 m (CSF-A)

Major lithology: dark gray calcareous claystone with burrows exhibiting reddish brown color bands probably caused by post-depositional changes in redox conditions.



Hole 354-U1451B Core 39R, Interval 879.7-880.19 m (CSF-A)

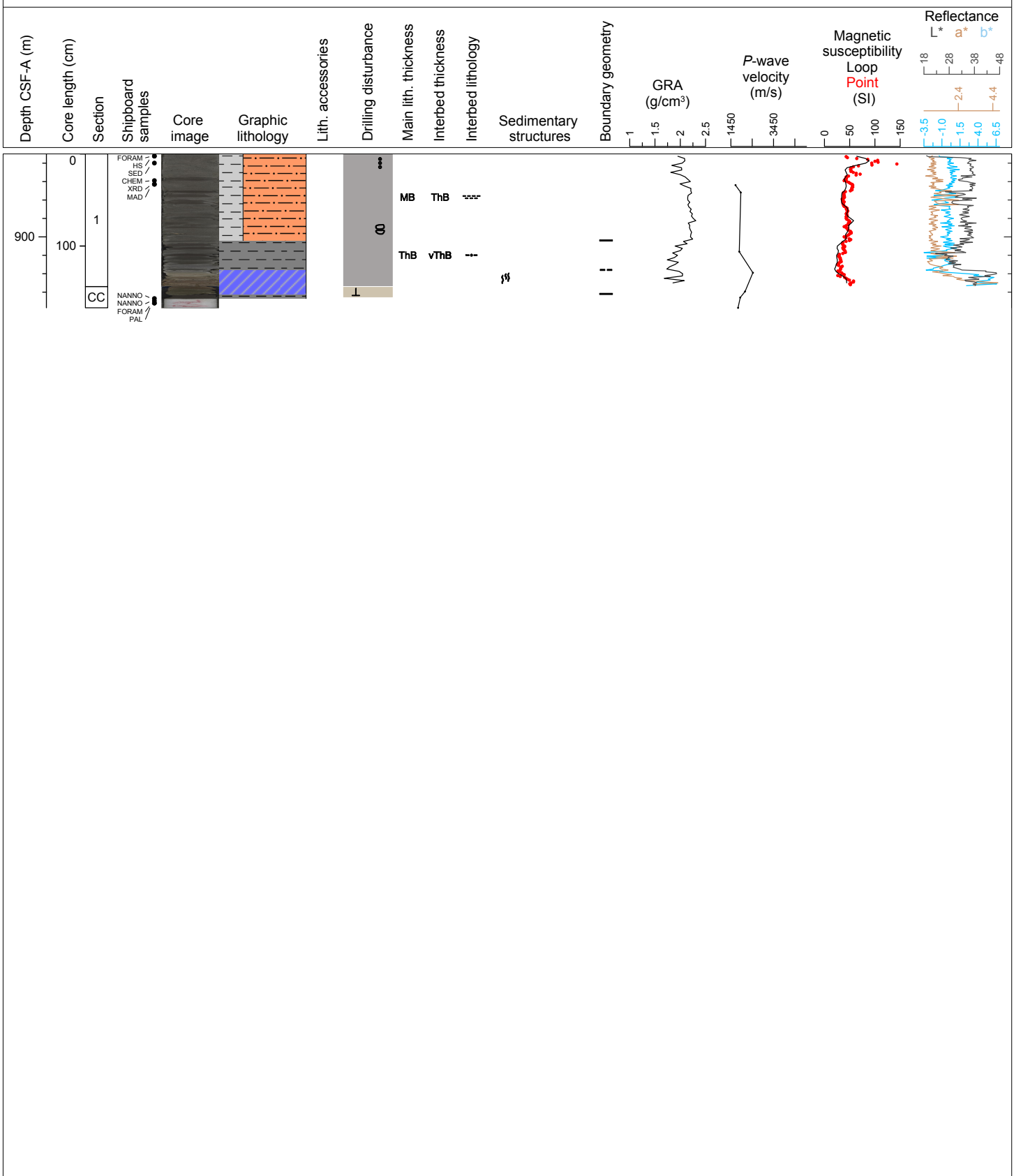
Major lithology: brown calcareous claystone with burrows; Minor lithology: dark gray silt with clay.

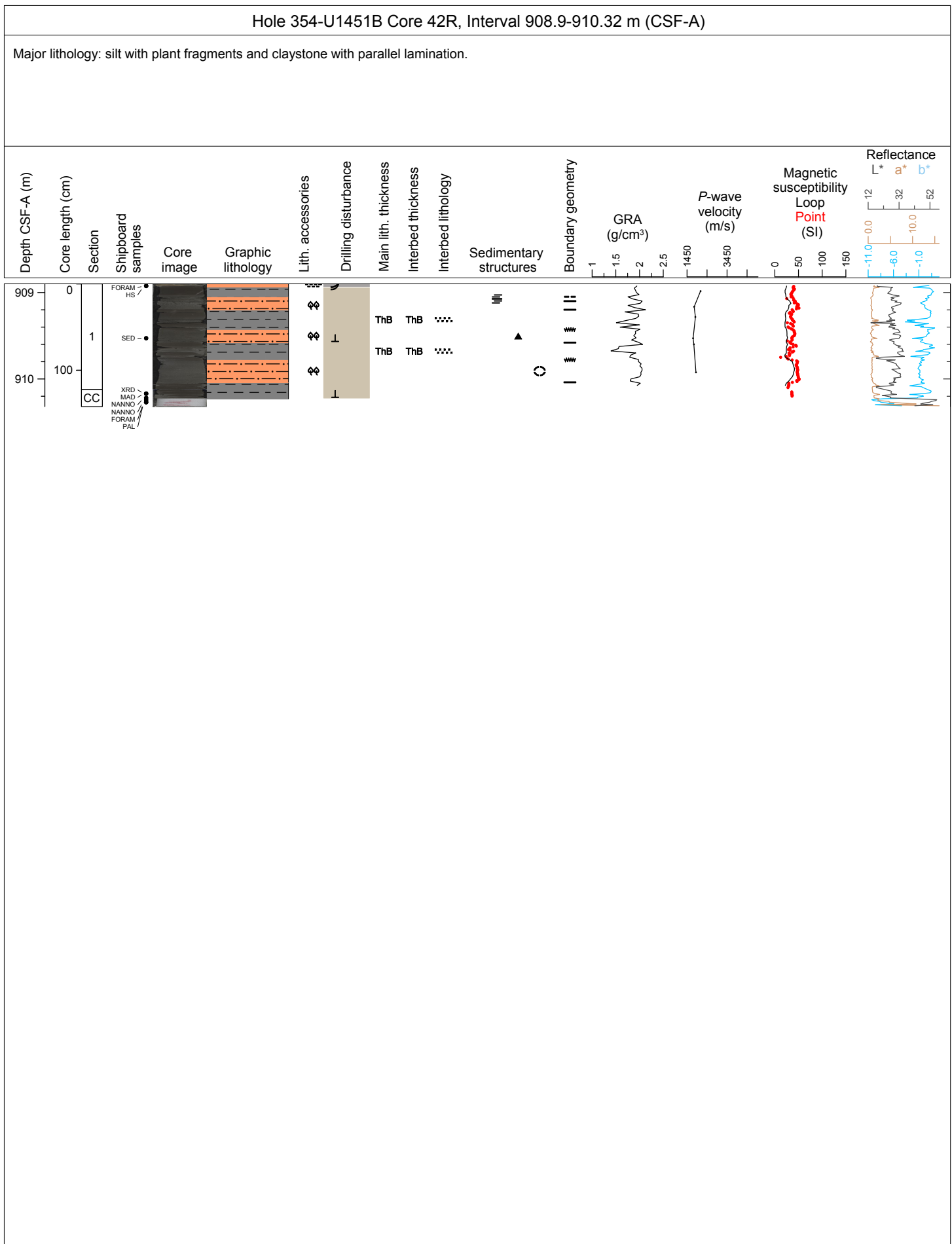


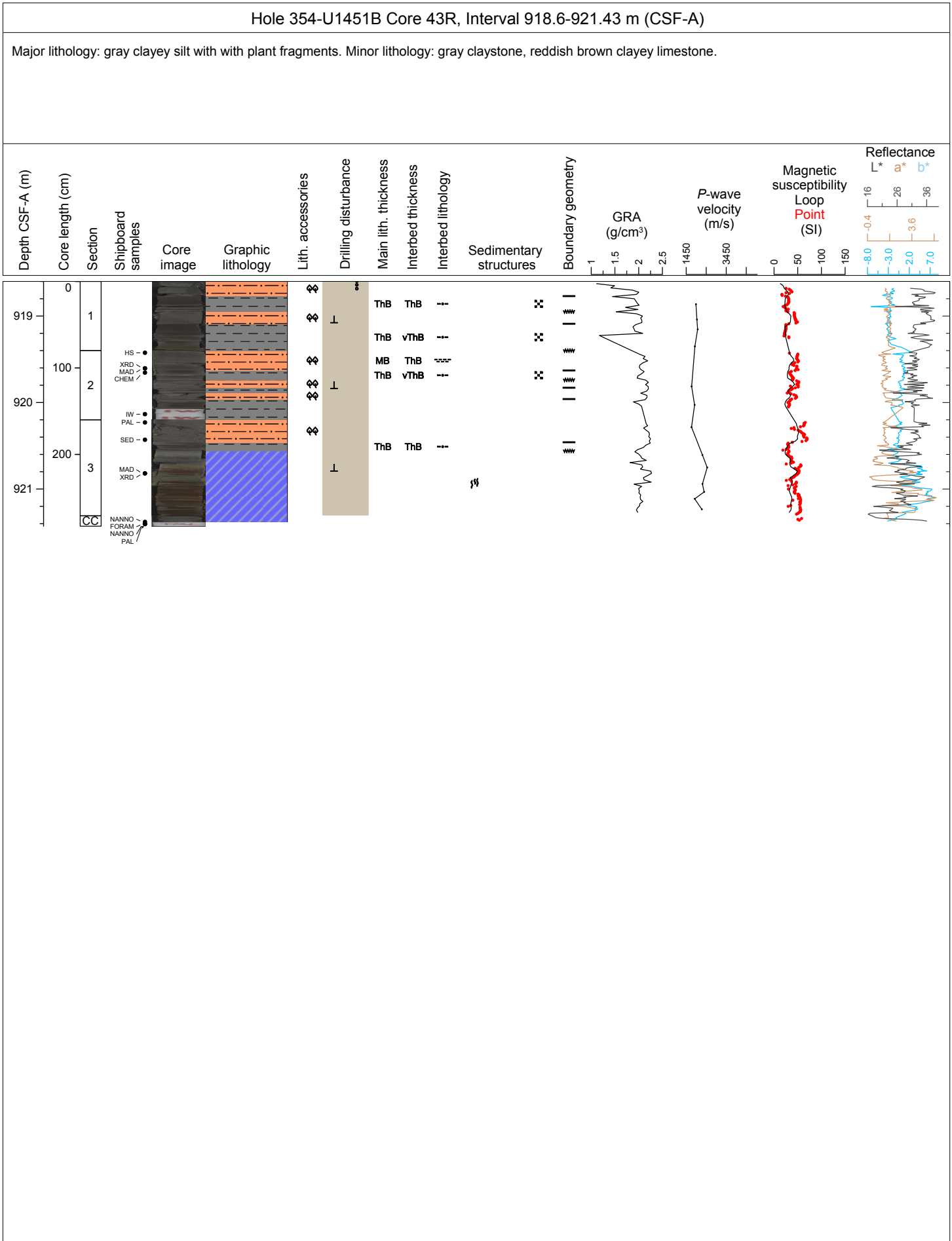
U1451B-40R No recovery

Hole 354-U1451B Core 41R, Interval 899.1-900.77 m (CSF-A)

Major lithology: silt with thin interbeds of claystone. Minor lithology: claystone and calcareous claystone.

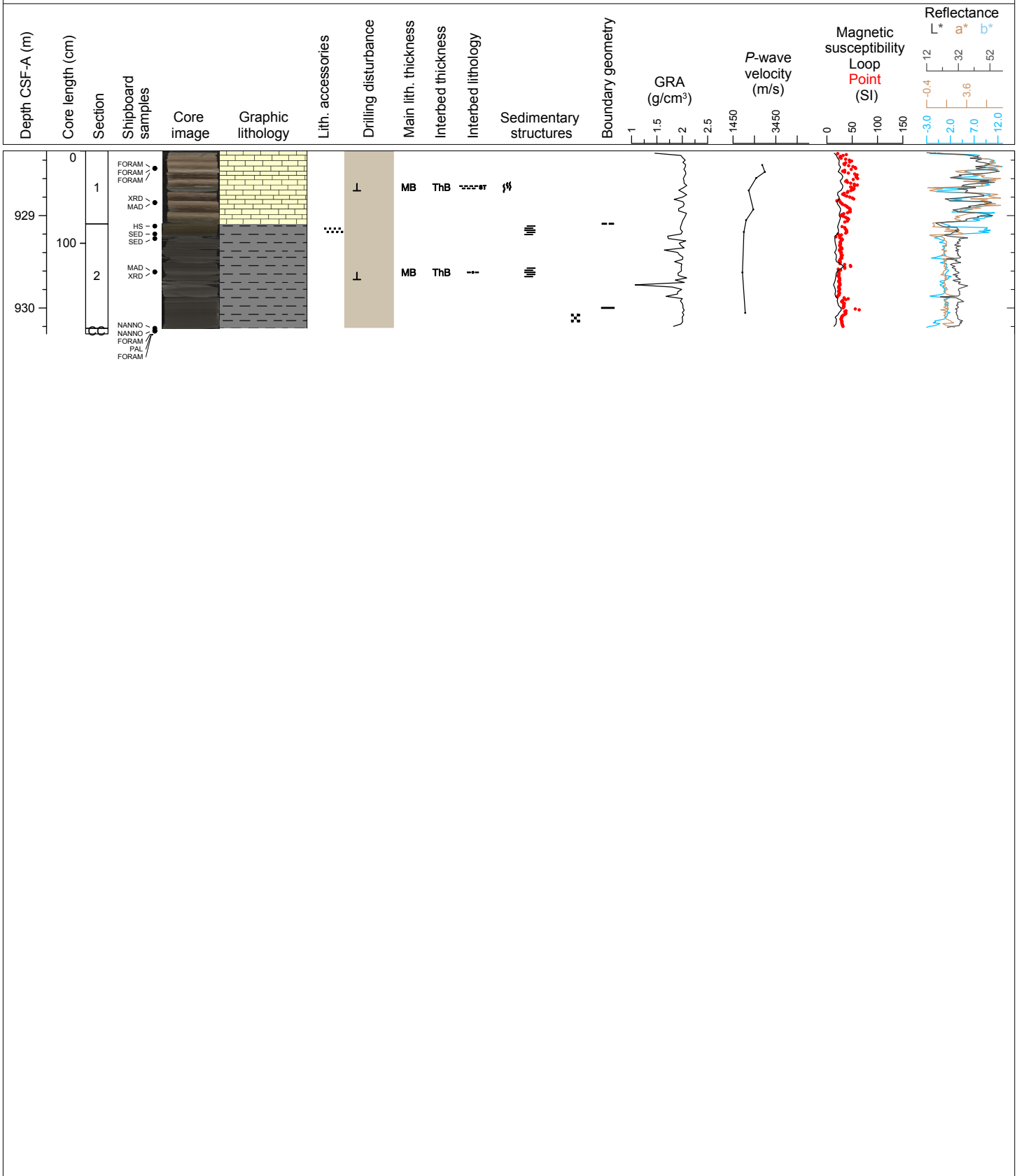


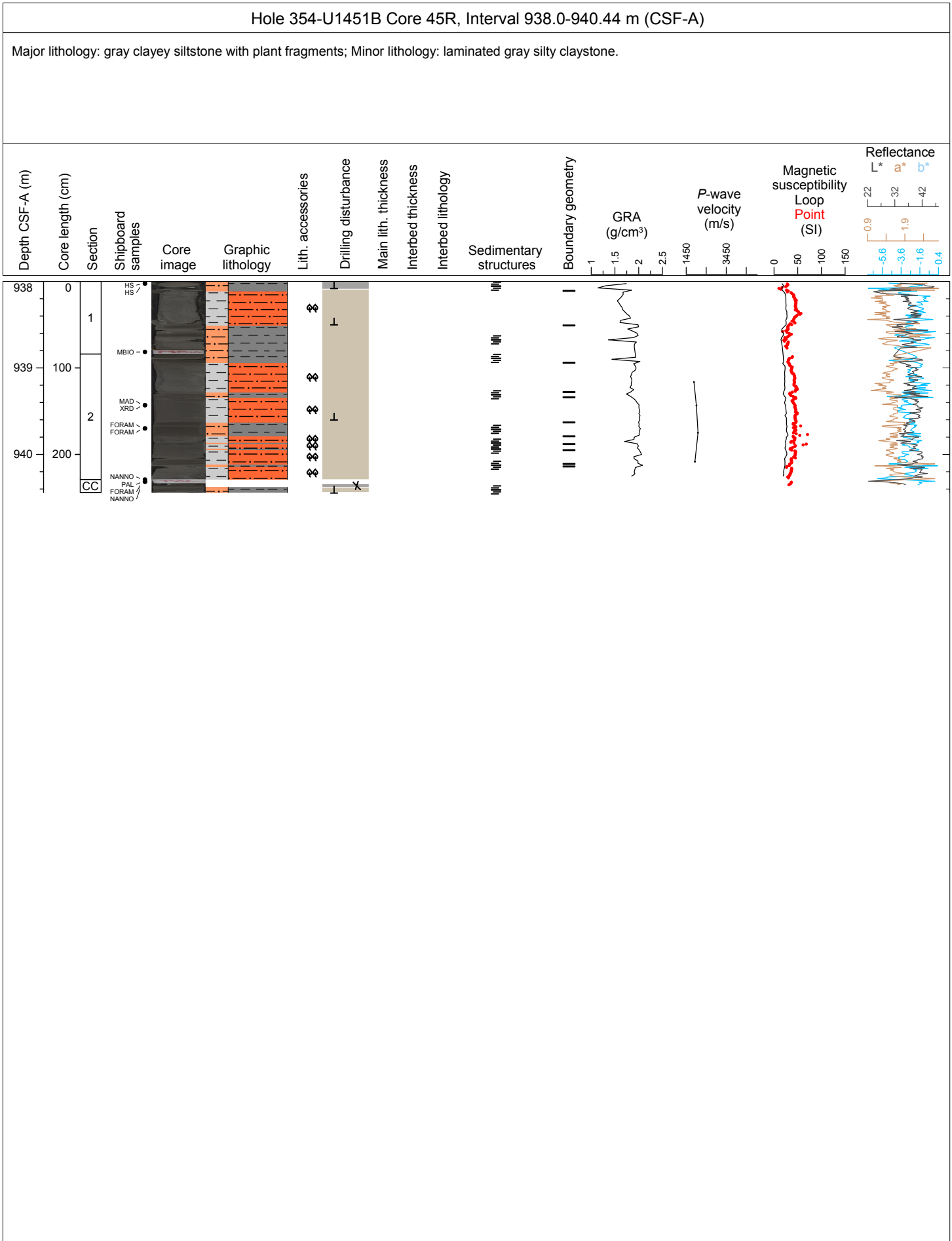




Hole 354-U1451B Core 44R, Interval 928.3-930.28 m (CSF-A)

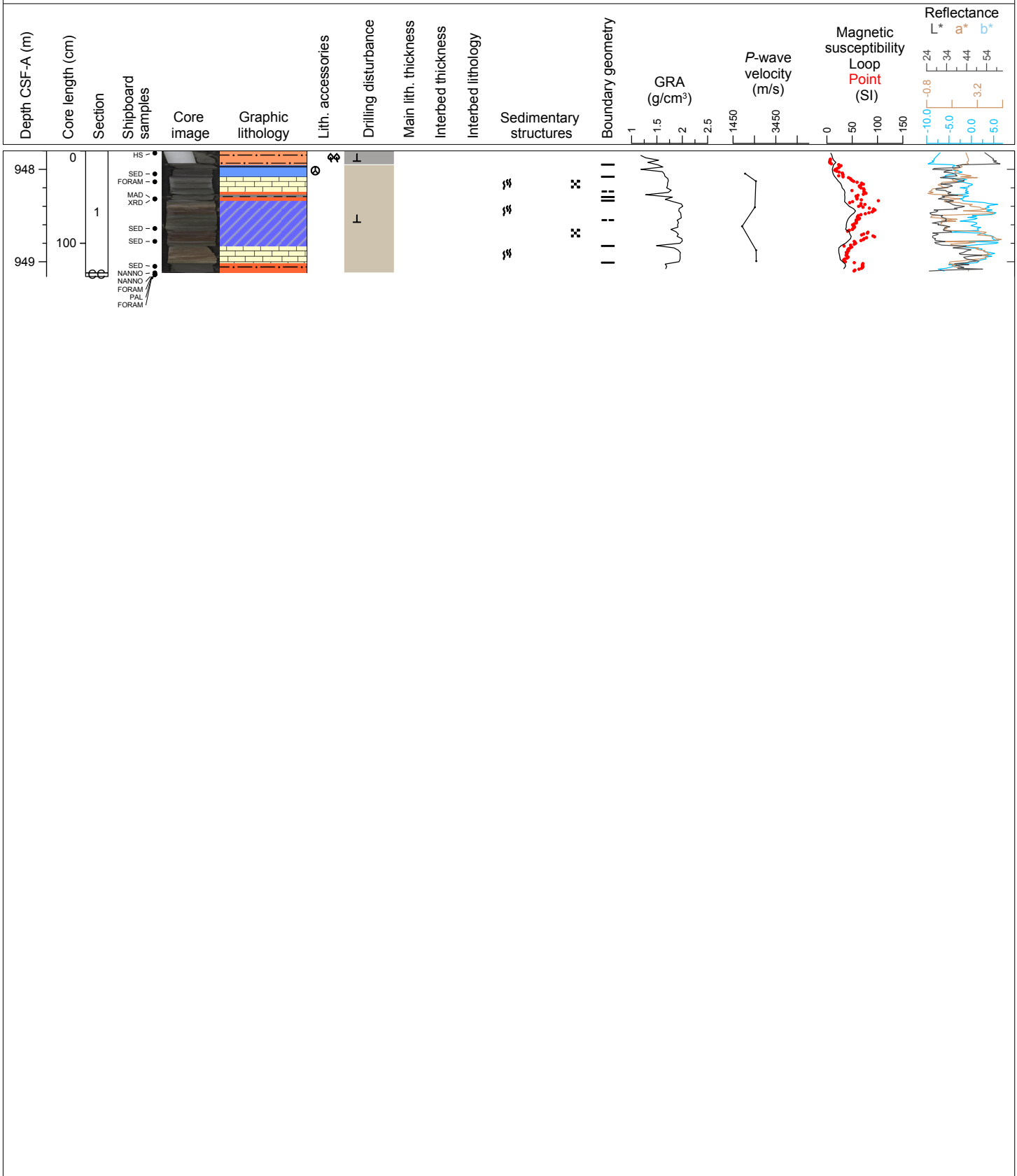
Major lithology: top 80 cm are white limestone with burrows and red color bands, the rest of the core is gray claystone with thin silt interbeds.





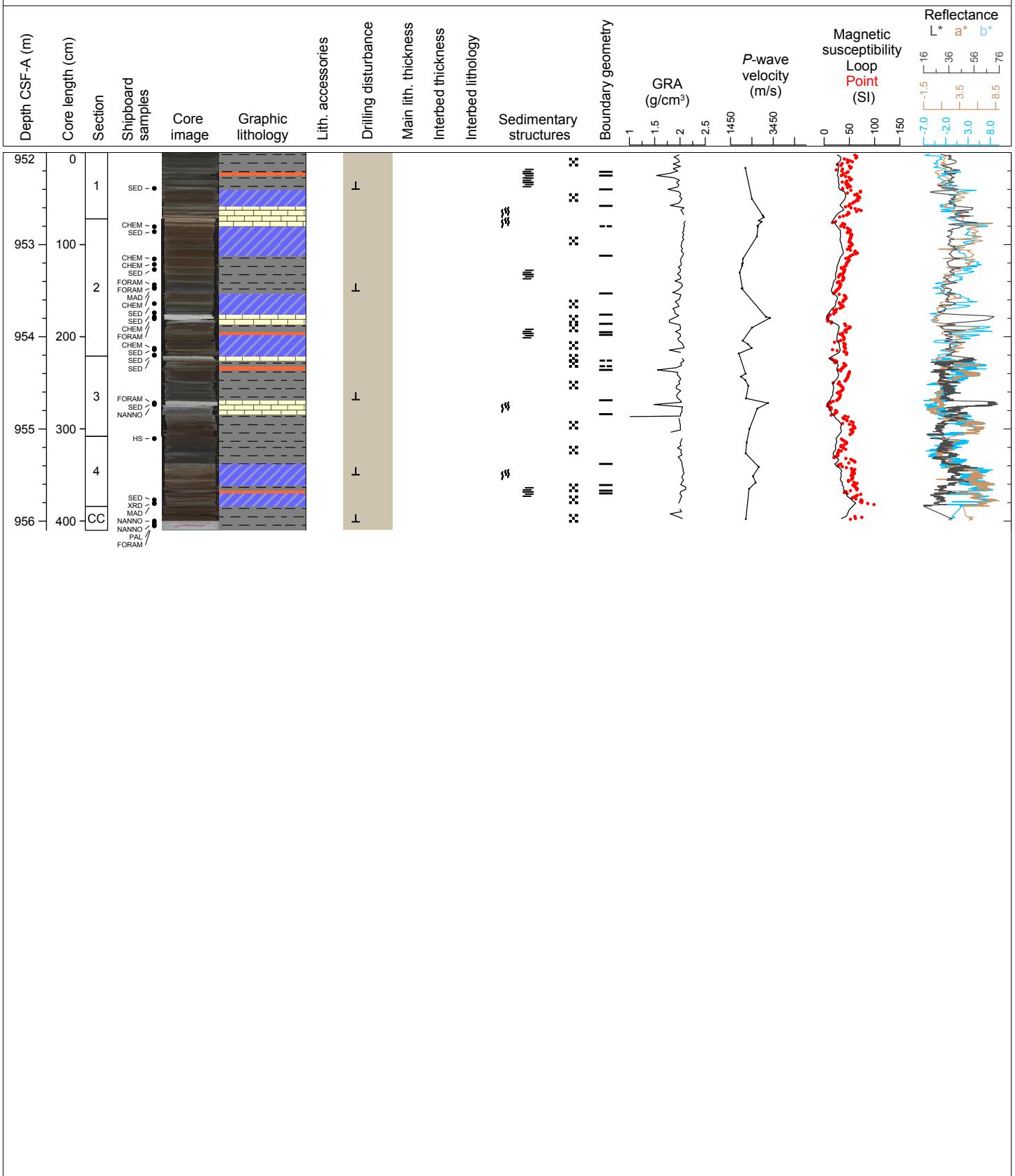
Hole 354-U1451B Core 46R, Interval 947.8-949.16 m (CSF-A)

Major lithology: gray to light brown calcareous claystone; Minor lithology: brown claystone and dark gray siltstone.



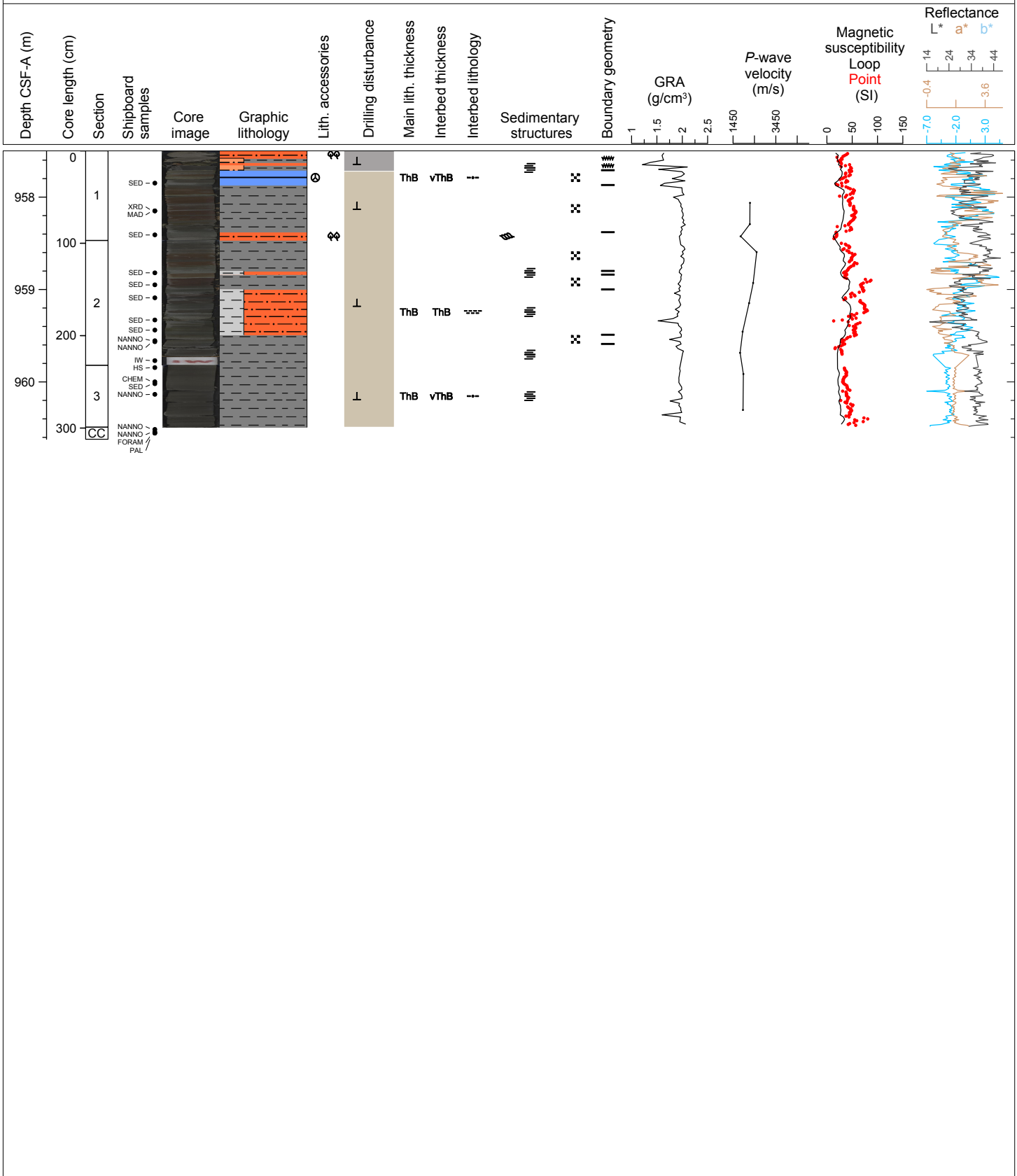
Hole 354-U1451B Core 47R, Interval 952.0-956.1 m (CSF-A)

Major lithology: light brown to brown claystone; Minor lithology: light gray calcareous claystone, white limestone and gray siltstone. Fine parallel laminations are present in some claystone and siltstone beds.



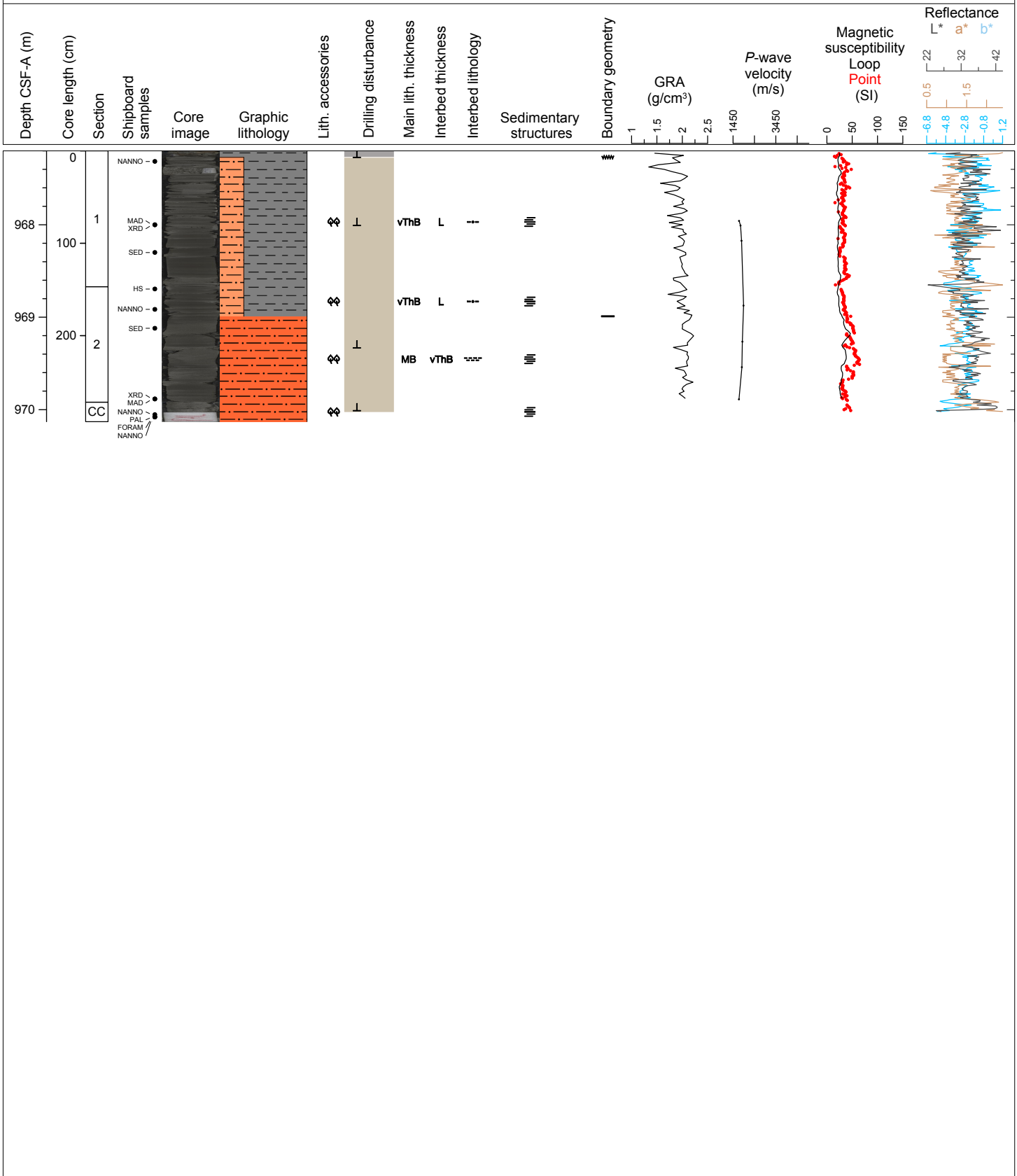
Hole 354-U1451B Core 48R, Interval 957.5-960.62 m (CSF-A)

Major lithology: brown claystone; Minor lithology: laminated greenish-gray to gray siltstone.



Hole 354-U1451B Core 49R, Interval 967.2-970.13 m (CSF-A)

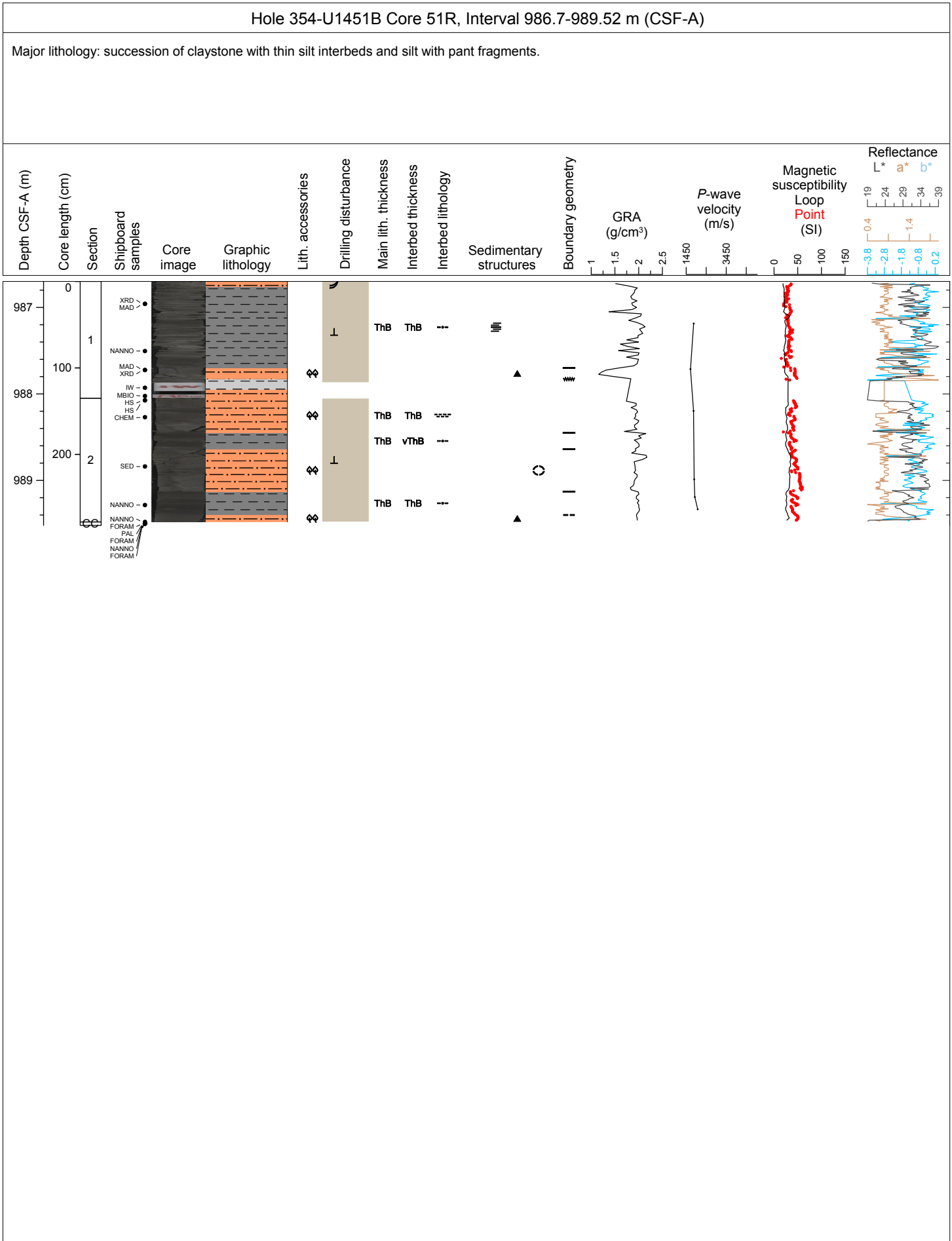
Major lithology: laminated gray silty claystone; Minor lithology: gray siltstone with dispersed plant fragments.



Hole 354-U1451B Core 50R, Interval 977.0-978.52 m (CSF-A)

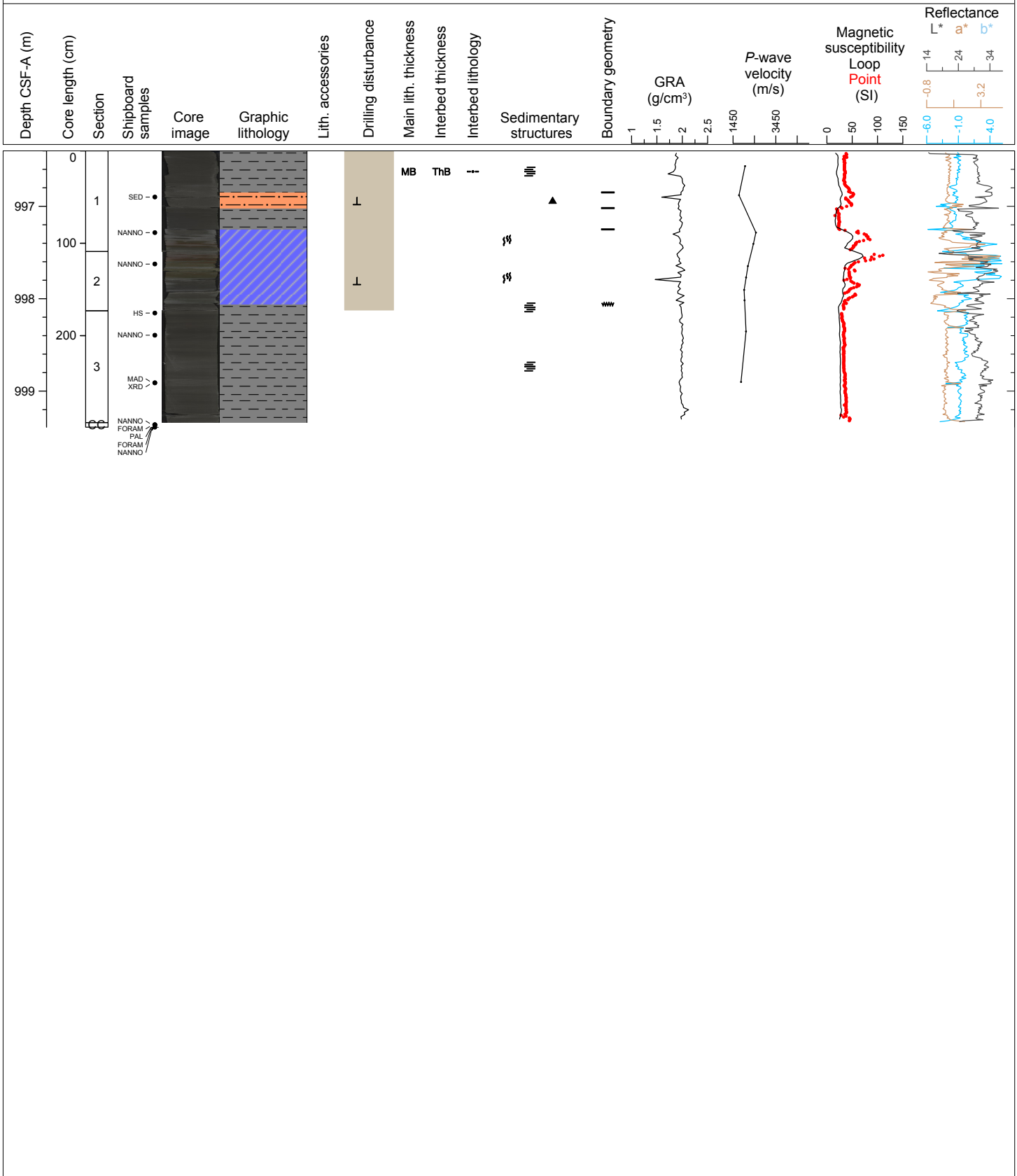
Major lithology: claystone with paralell lamination. Minor lithology: silt with plant fragments.





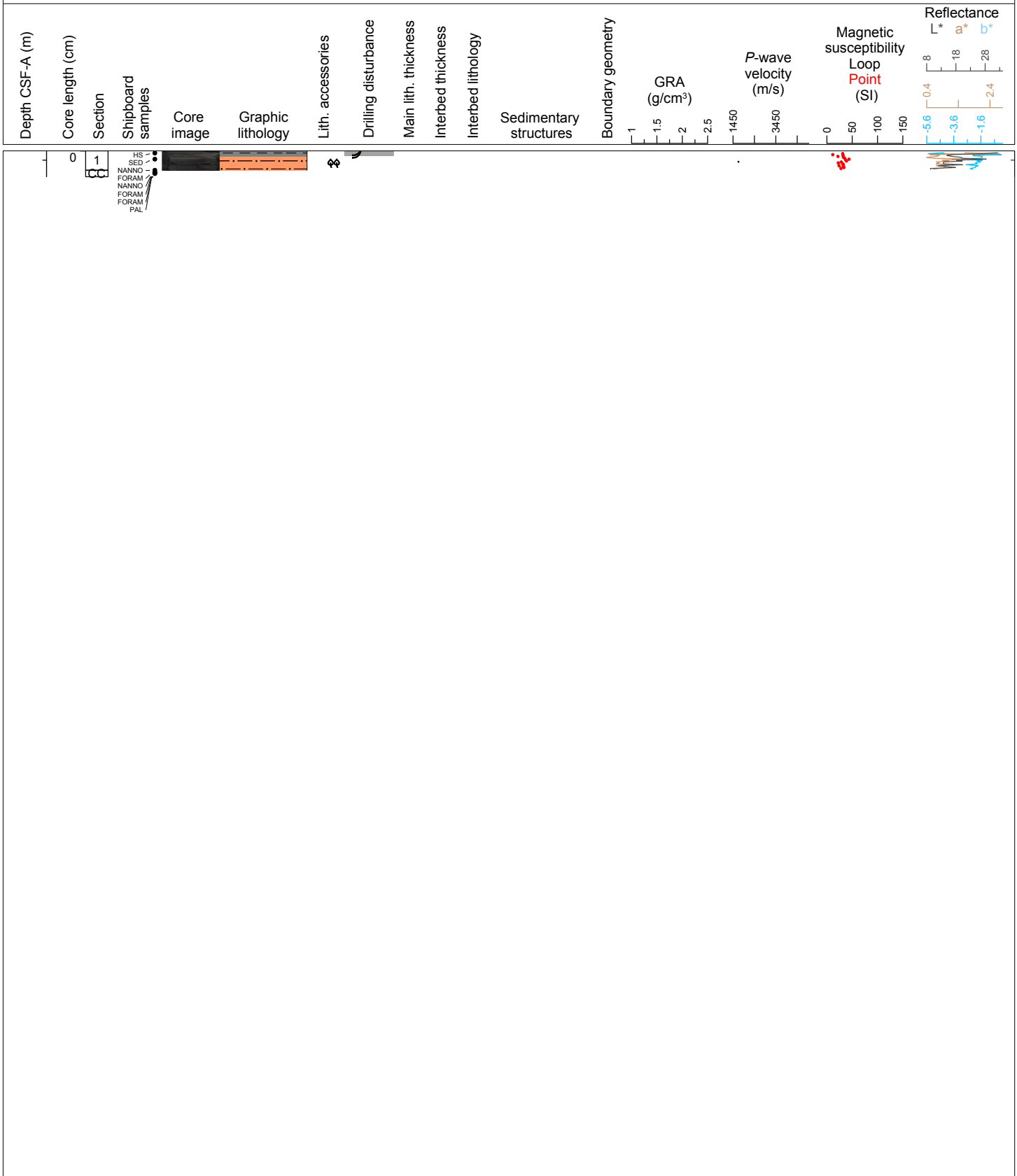
Hole 354-U1451B Core 52R, Interval 996.4-999.39 m (CSF-A)

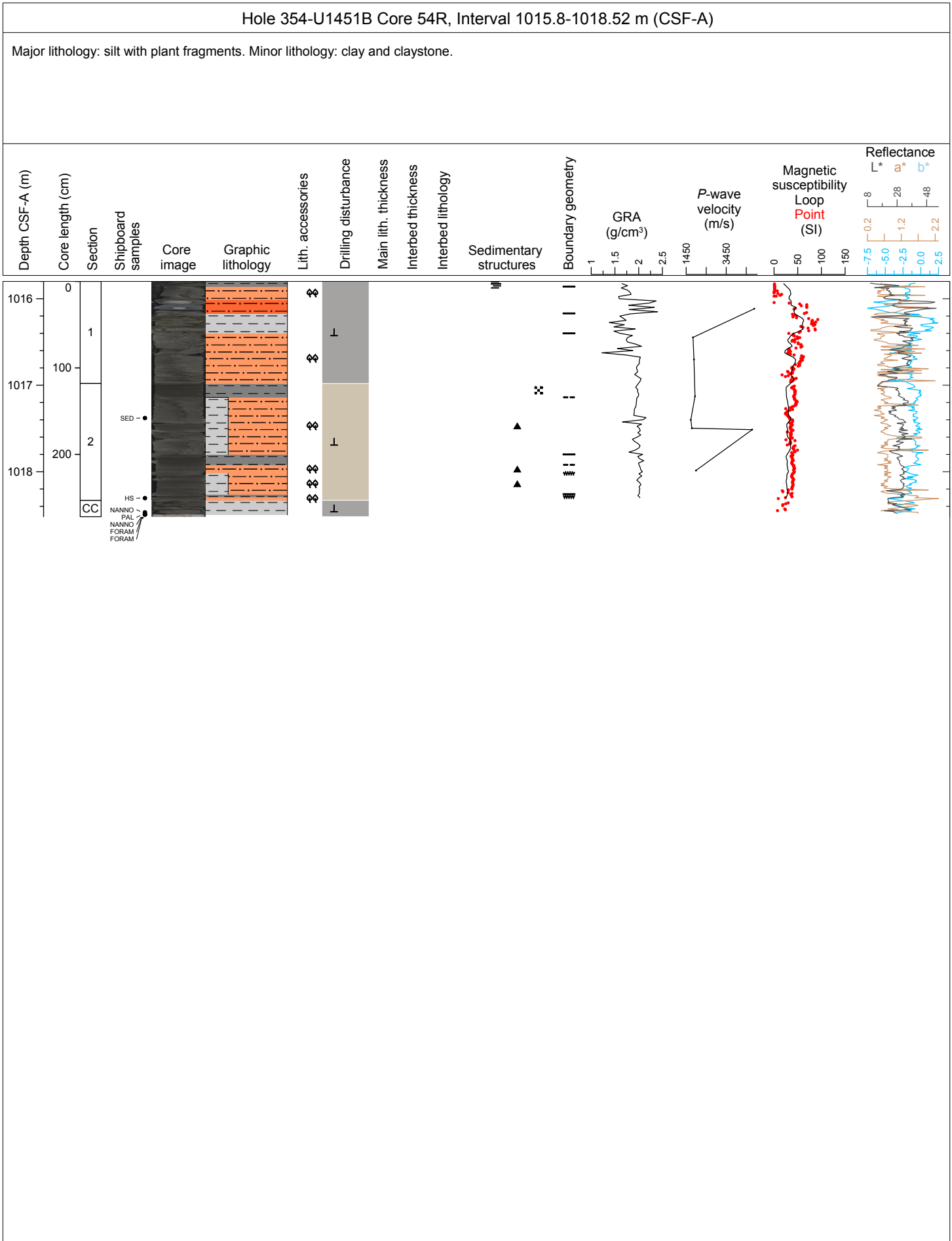
Major lithology: gray claystone. Minor lithology: silt and nannofossil-rich clay with burrows.



Hole 354-U1451B Core 53R, Interval 1006.1-1006.38 m (CSF-A)

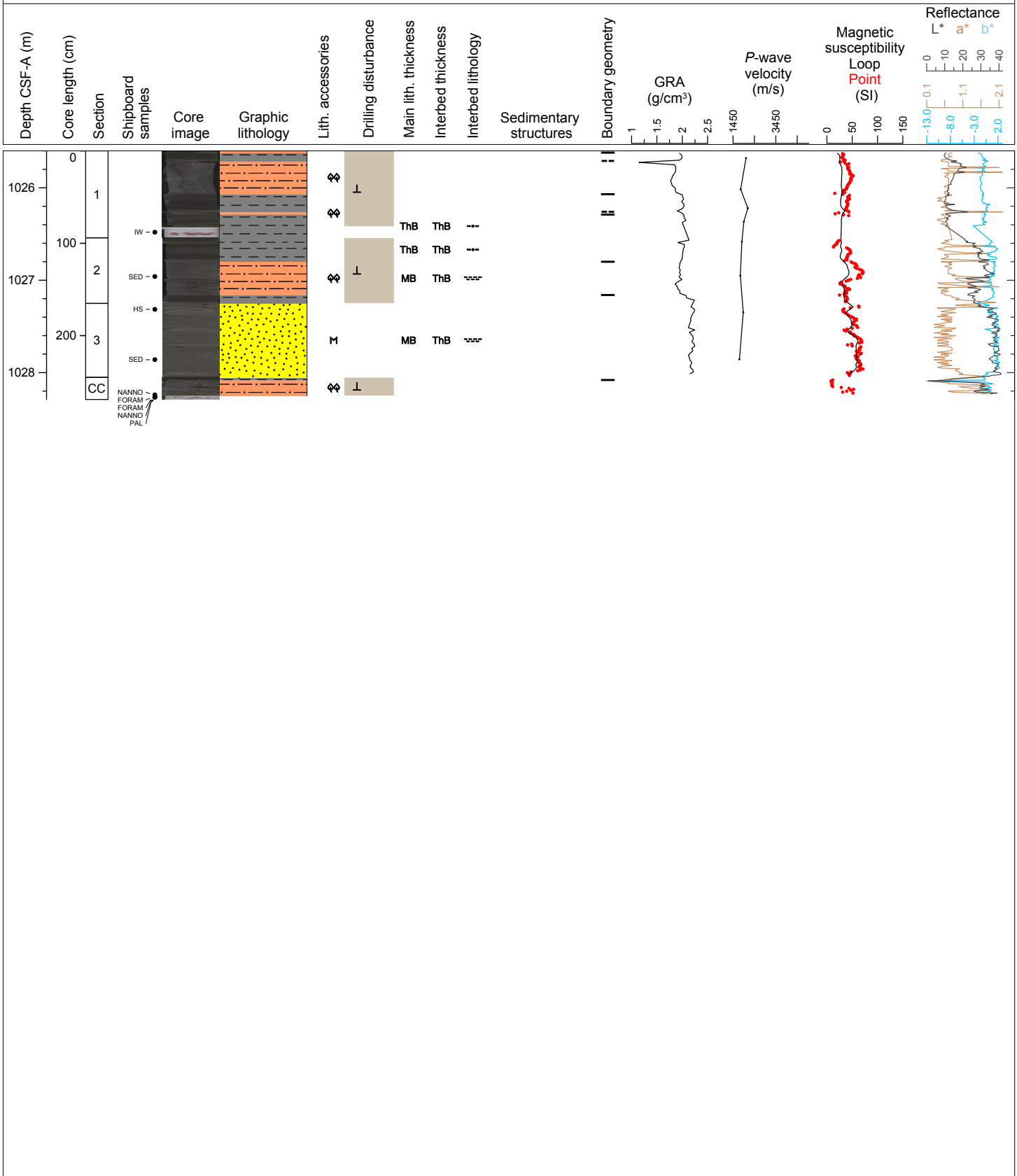
Major lithology: silt with very abundant plant fragments and charcoal.





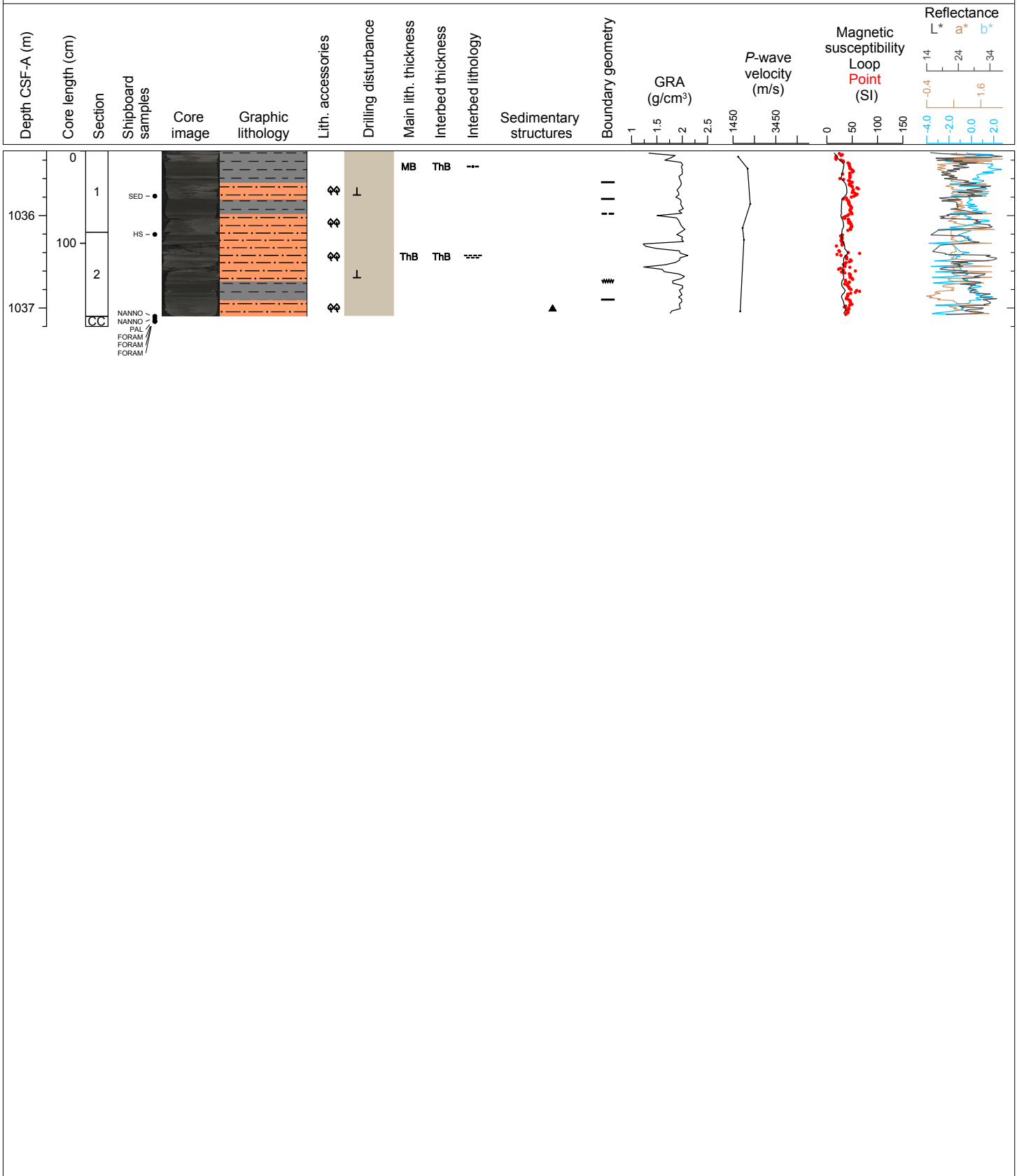
Hole 354-U1451B Core 55R, Interval 1025.6-1028.29 m (CSF-A)

Major lithology: succession of silt with plant fragments and claystone. Section 3 is sand with micas.



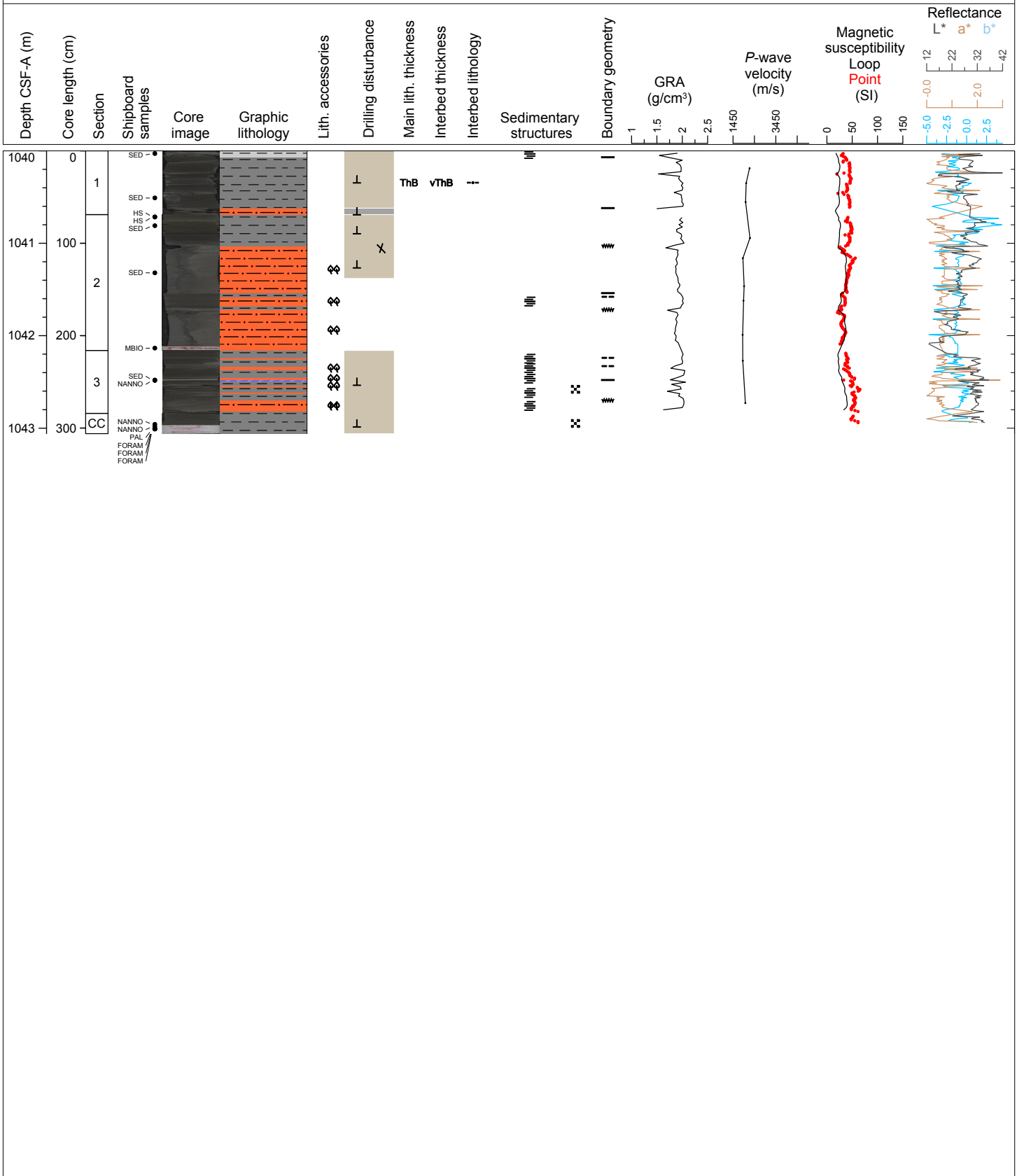
Hole 354-U1451B Core 56R, Interval 1035.3-1037.2 m (CSF-A)

Major lithology: succession of silt with plant fragments and claystone.



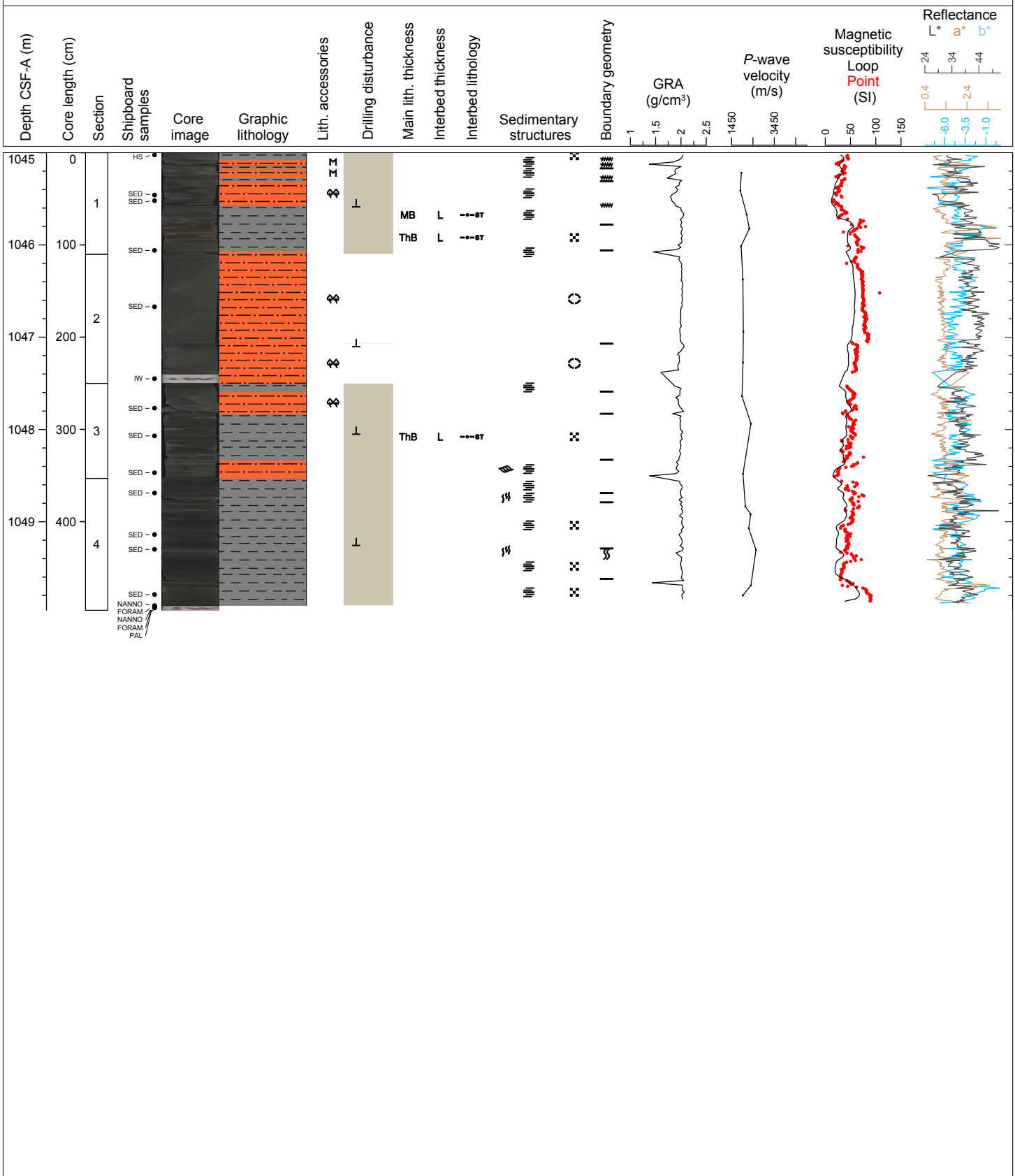
Hole 354-U1451B Core 57R, Interval 1040.0-1043.06 m (CSF-A)

Major lithology: dark gray claystone; Minor lithology: gray siltstone with plant fragment. Some siltstones contain fine parallel lamination.



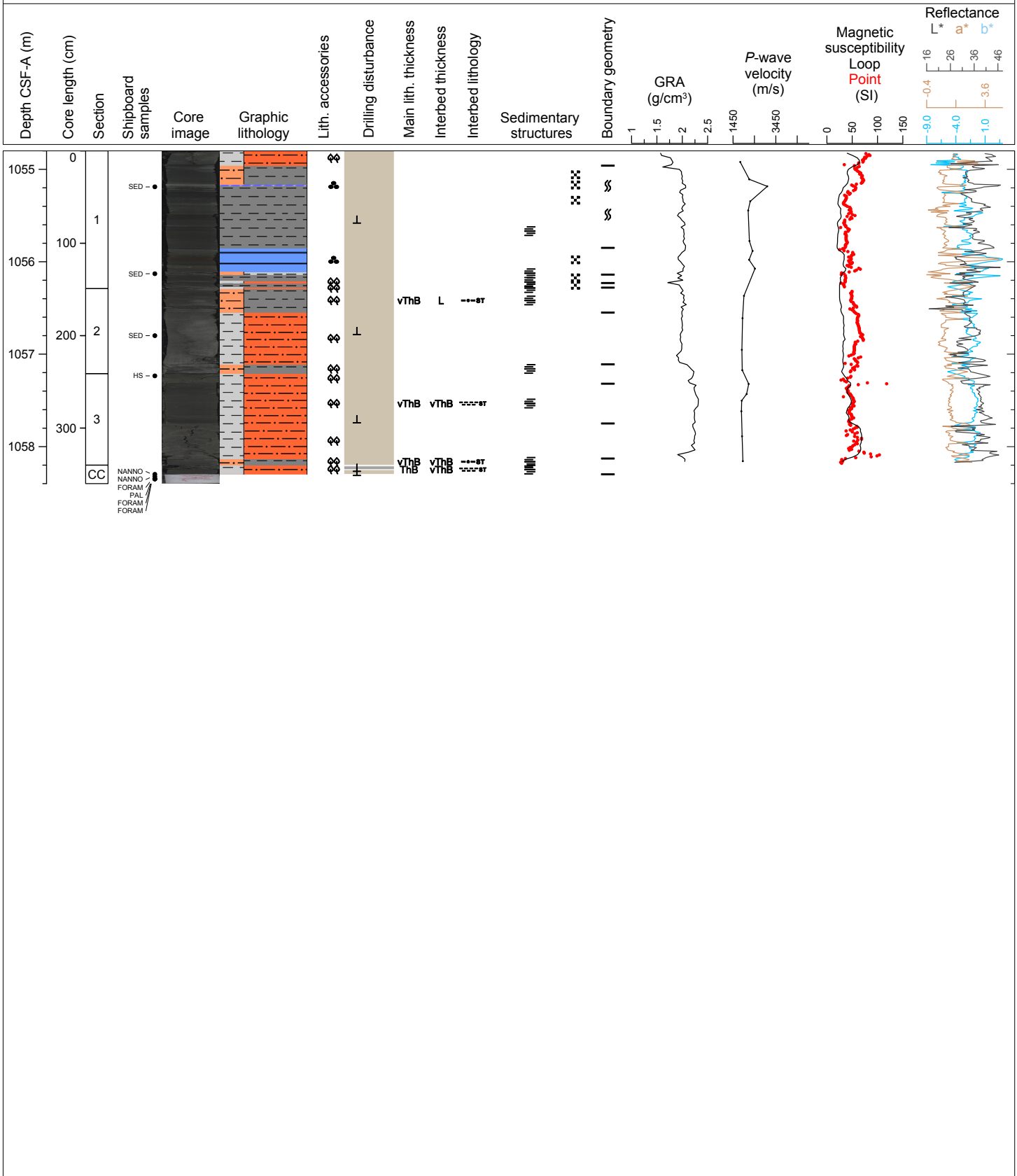
Hole 354-U1451B Core 58R, Interval 1045.0-1049.96 m (CSF-A)

Major lithology: dark gray to brown claystone with fine parallel lamination; Minor lithology: dark gray to gray siltstone with fine parallel lamination. Some wood fragments in siltstone oriented with parallel lamination.



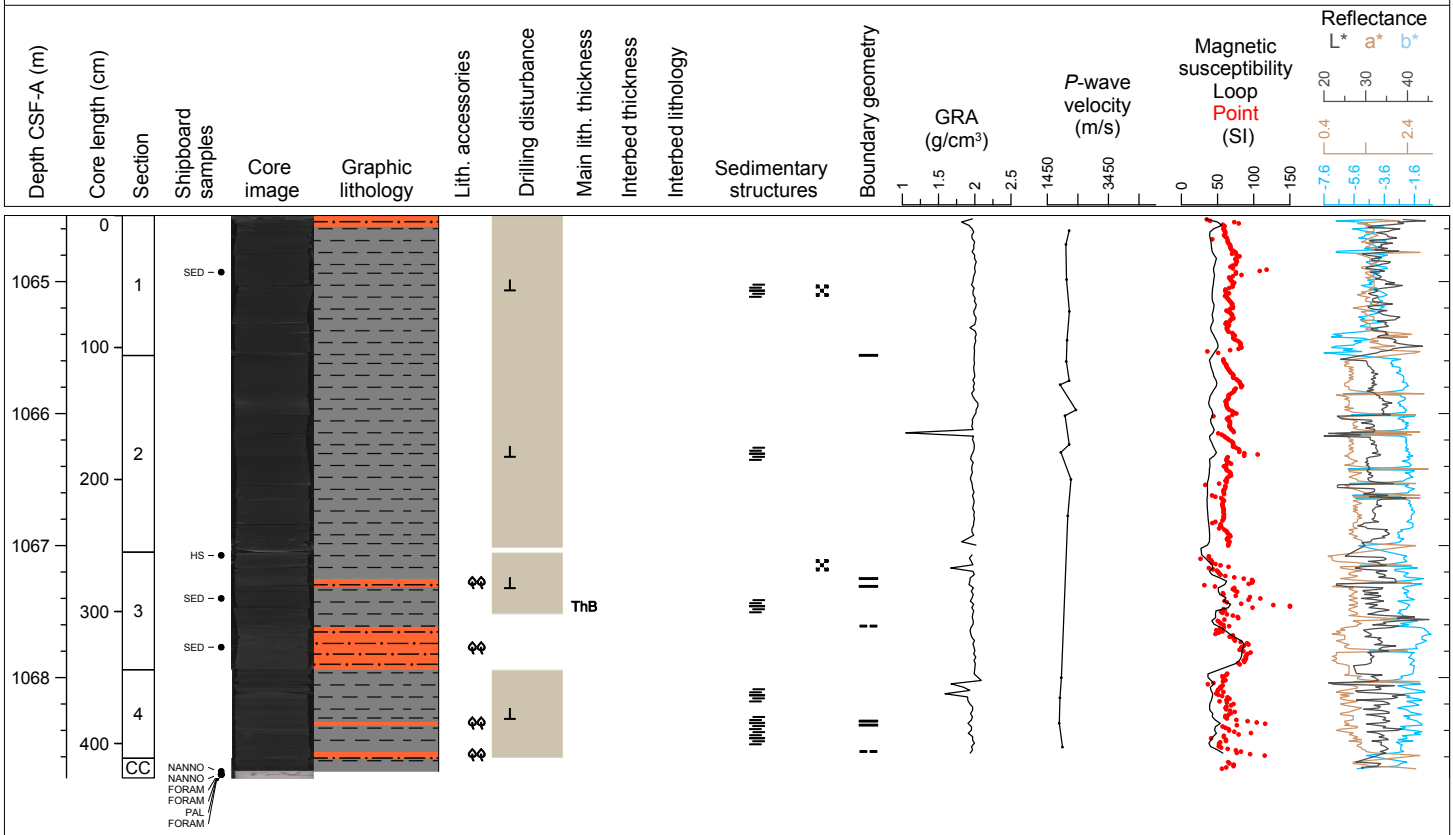
Hole 354-U1451B Core 59R, Interval 1054.8-1058.4 m (CSF-A)

Major lithology: gray clayey siltstone with plant fragments; Minor lithology: greenish-gray mottled claystone and laminated gray claystone.



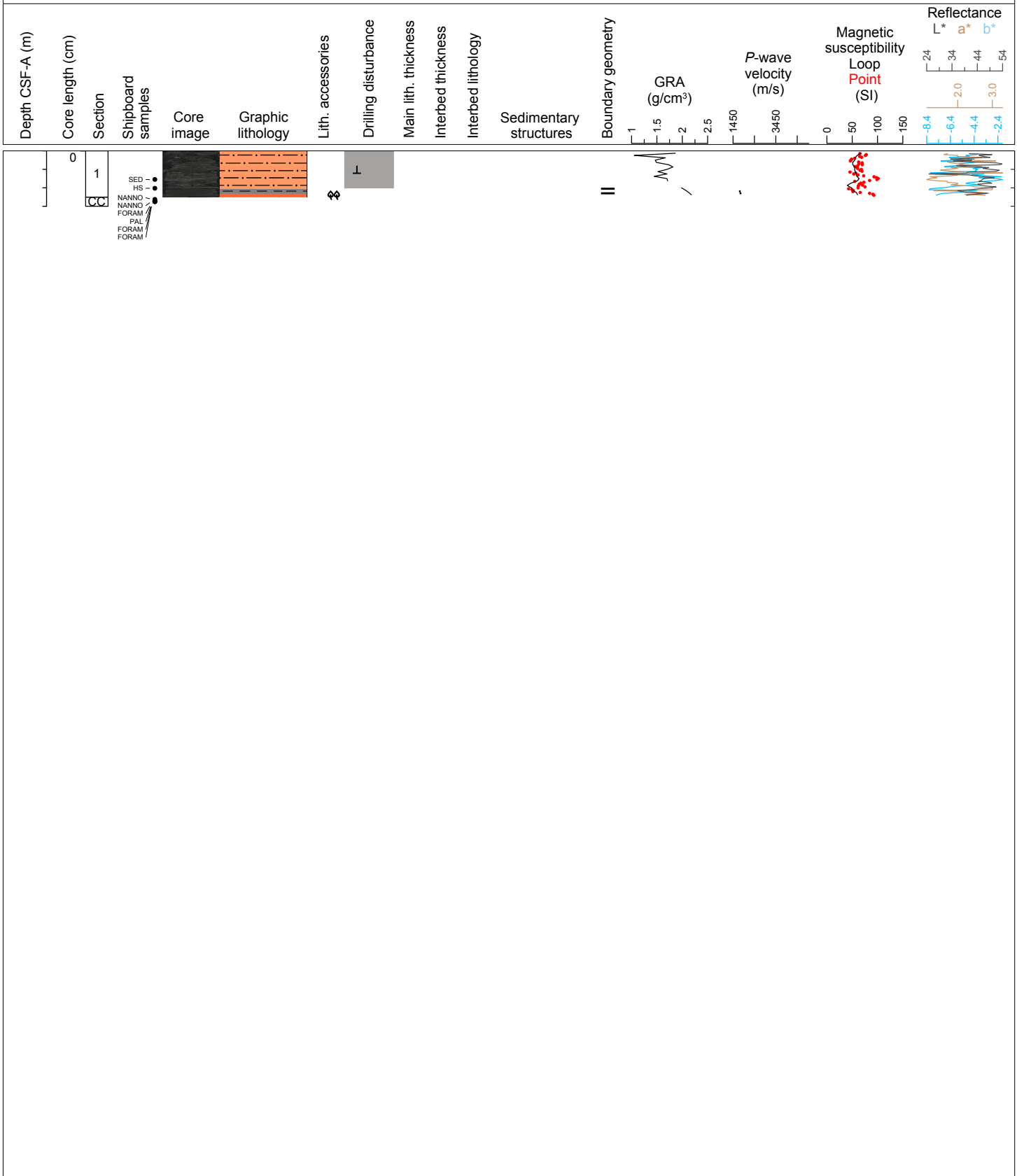
Hole 354-U1451B Core 60R, Interval 1064.5-1068.76 m (CSF-A)

Major lithology: Dark gray to black claystone with laminations. Minor lithology: siltstone with plant fragments.



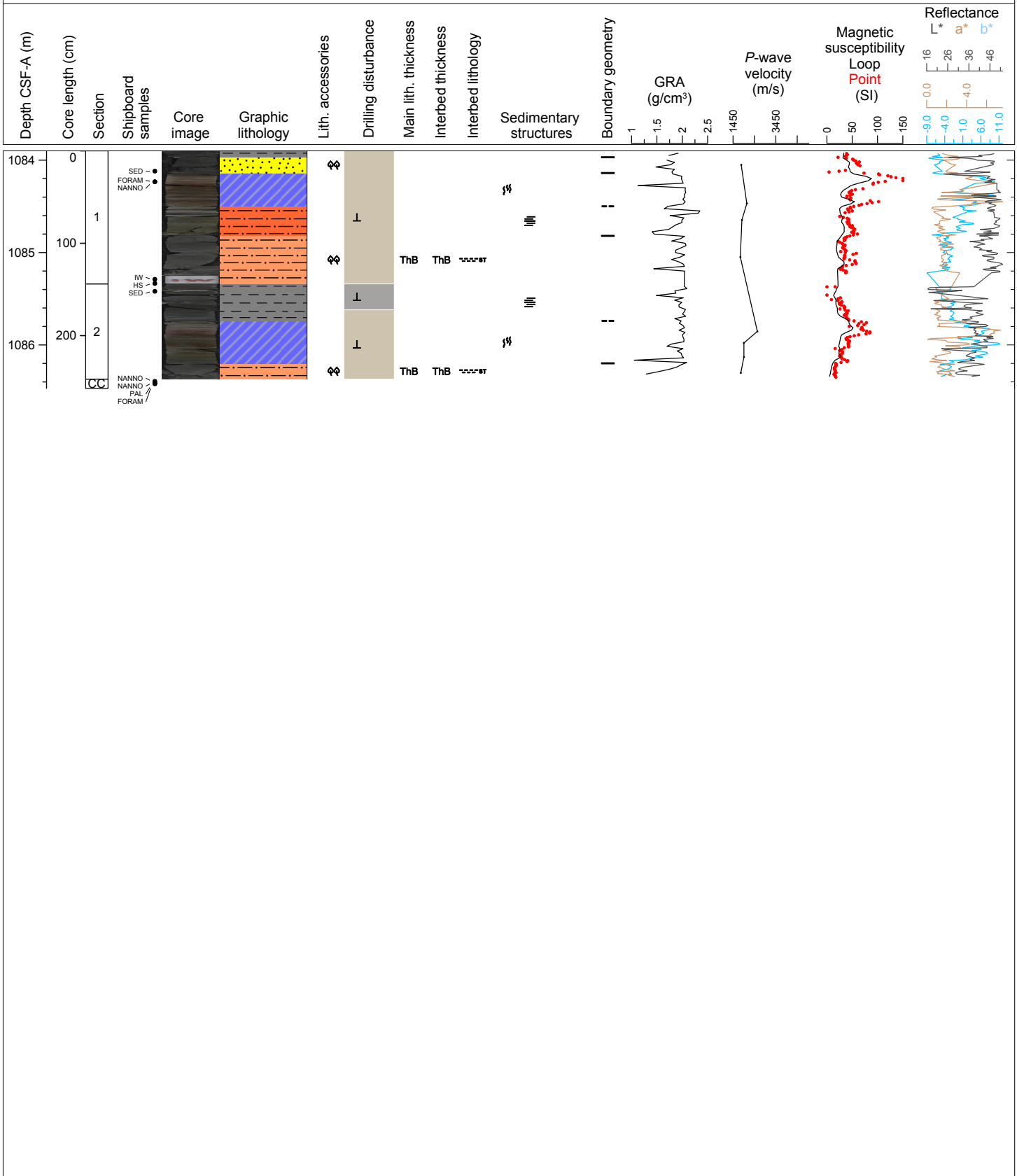
Hole 354-U1451B Core 61R, Interval 1074.2-1074.8 m (CSF-A)

Major lithology: gray silt. Minor lithology: siltstone with plant fragments.



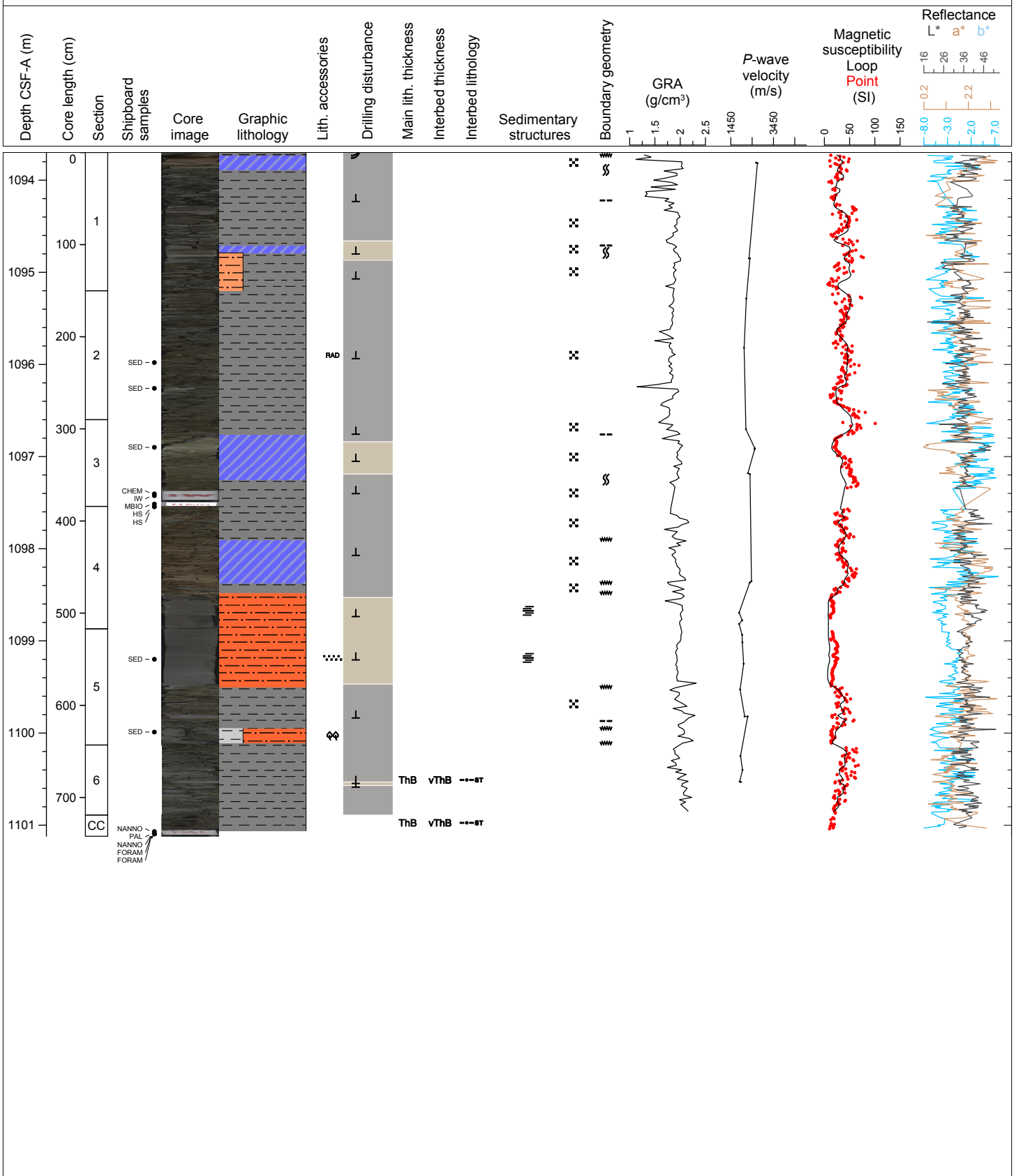
Hole 354-U1451B Core 62R, Interval 1083.9-1086.47 m (CSF-A)

Major lithology: succession of silts with plant fragments and claystones with burrows.



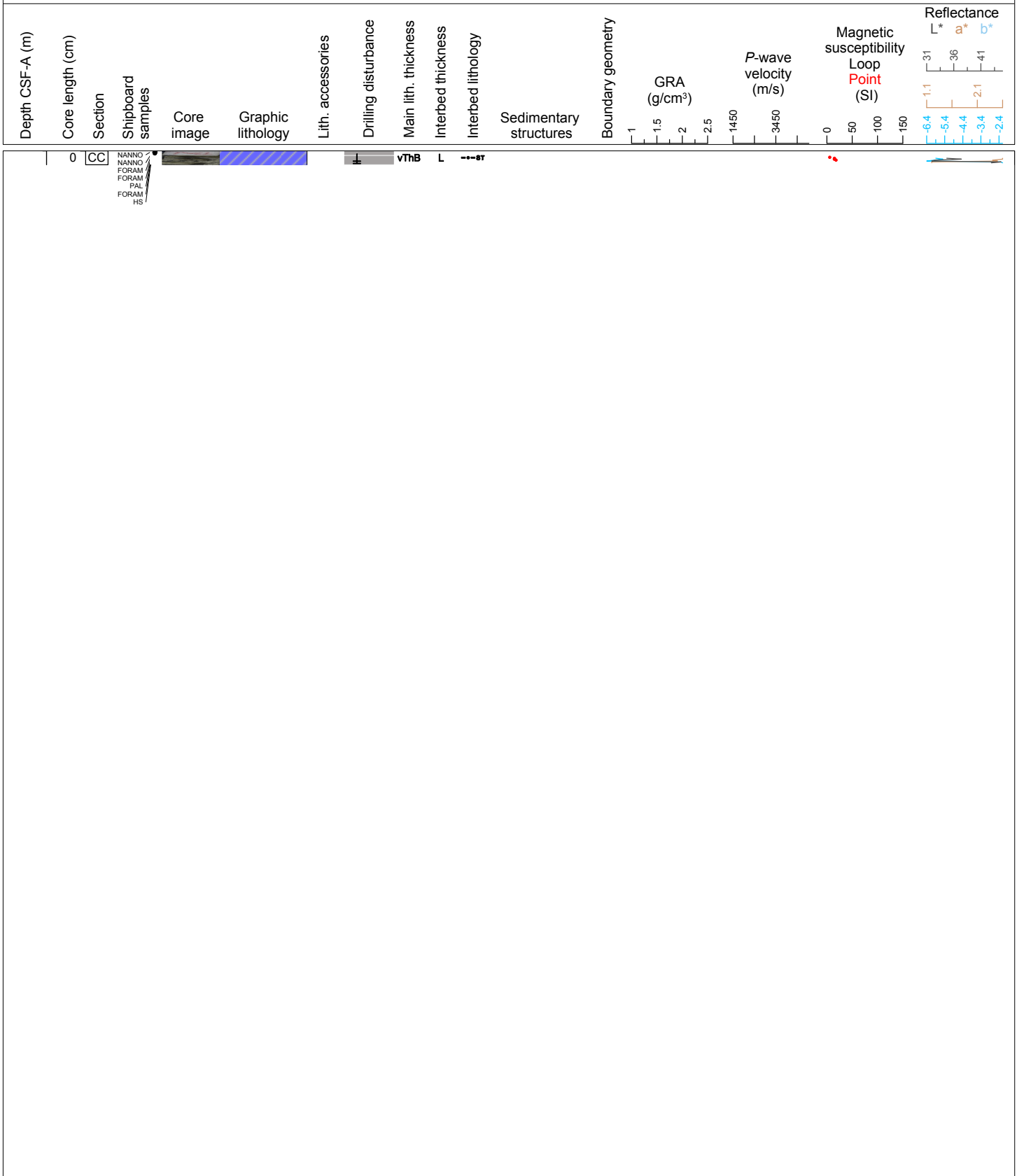
Hole 354-U1451B Core 63R, Interval 1093.7-1101.12 m (CSF-A)

Major lithology: slightly mottled brown claystone; Minor lithology: mottled light-brown calcareous claystone, gray clayey silt; General comments: several fractures filled with silt (injection of silt).



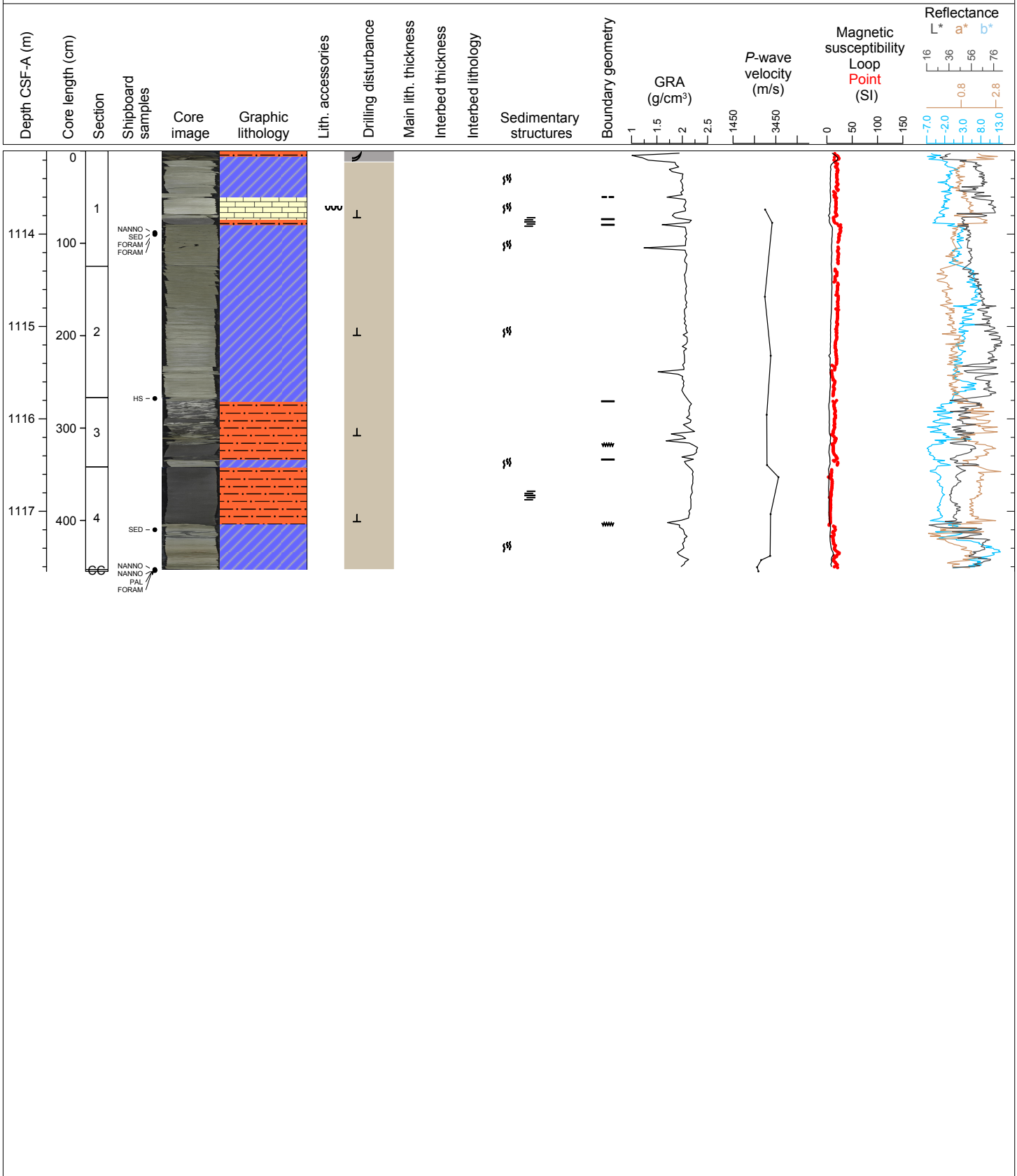
Hole 354-U1451B Core 64R, Interval 1103.4-1103.55 m (CSF-A)

Major lithology: light-green calcareous claystone interbedded with siltstone.



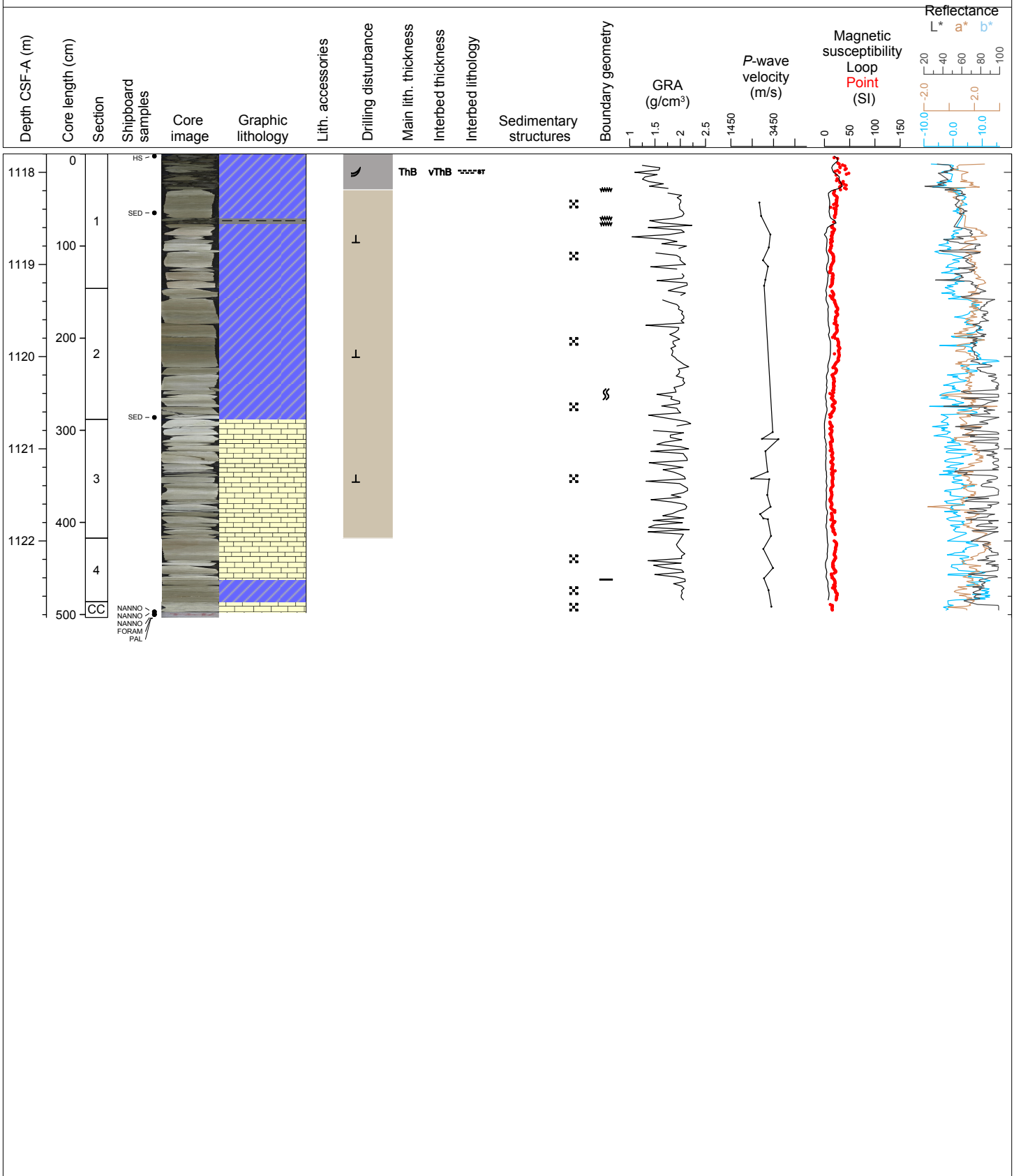
Hole 354-U1451B Core 65R, Interval 1113.1-1117.65 m (CSF-A)

Major lithology: light green calcareous claystone with burrows. Minor lithology: dark gray siltstone and breccia of siltstone matrix and limestone clasts.



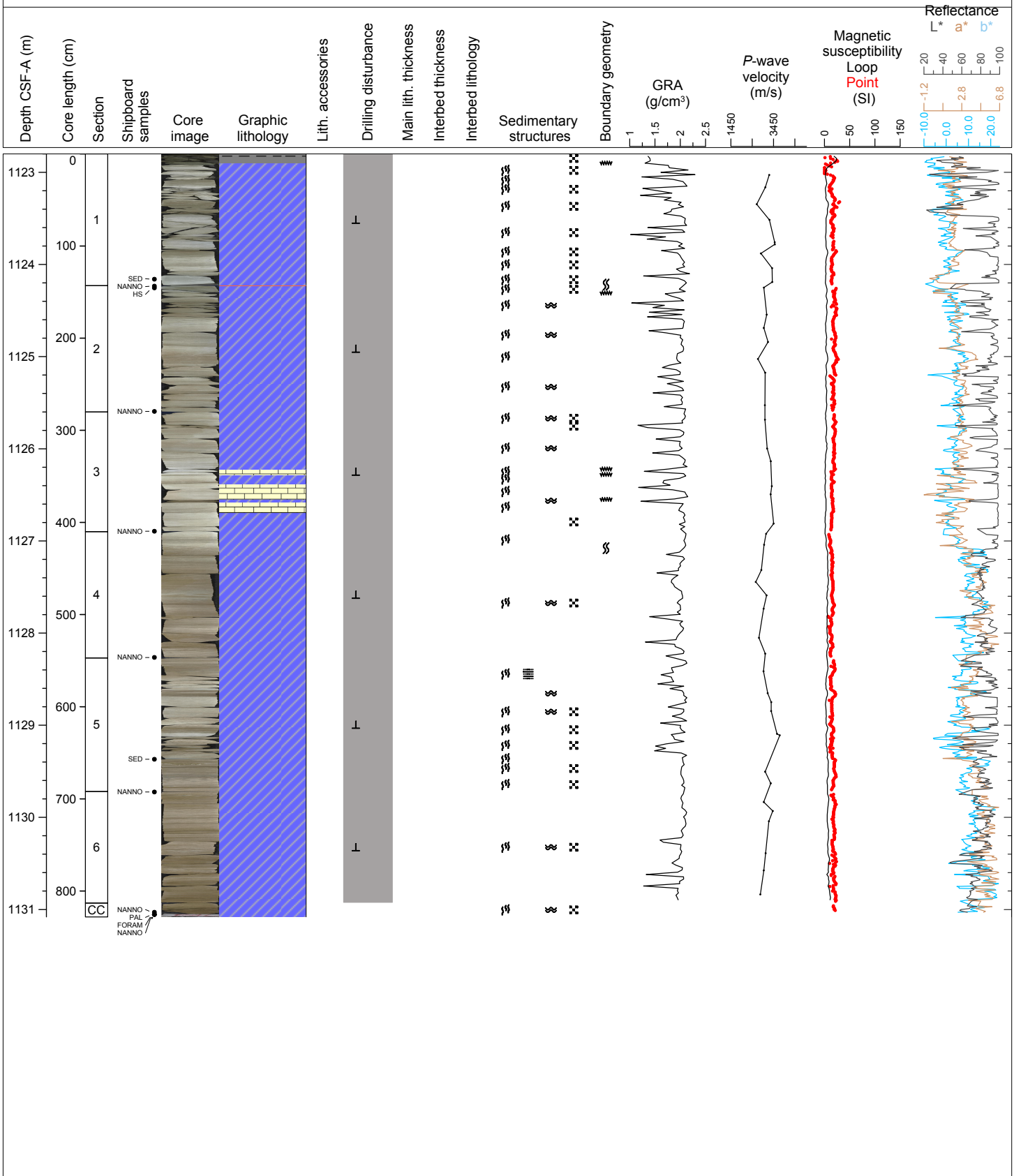
Hole 354-U1451B Core 66R, Interval 1117.8-1122.83 m (CSF-A)

Major lithology: mottled white to light gray limestone; Minor lithology: mottled light-greenish gray calcareous claystone; General comments: abundant microfractures within limestone intervals, fractures filled with dark-gray silt.



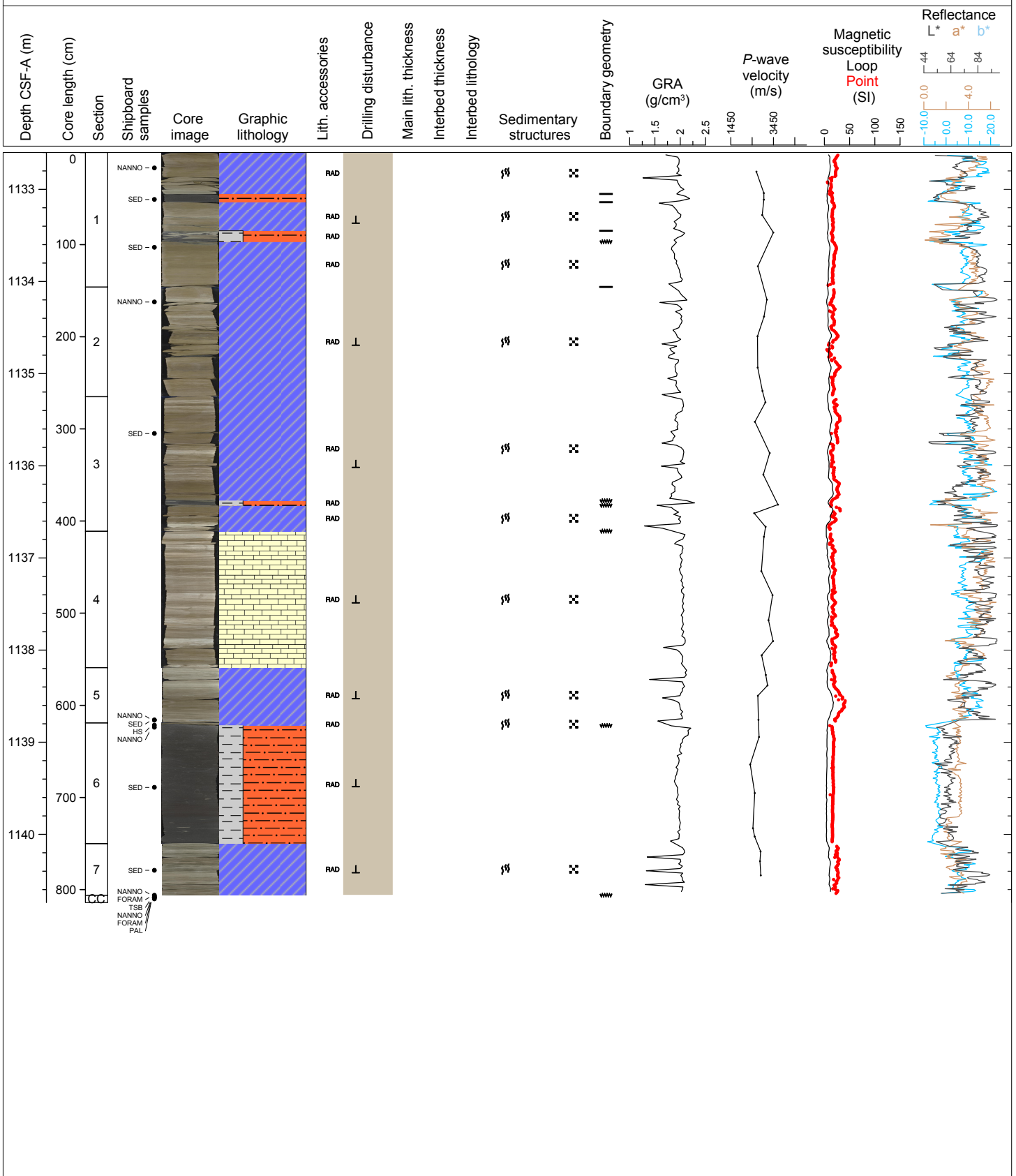
Hole 354-U1451B Core 67R, Interval 1122.8-1131.08 m (CSF-A)

Major lithology: mottled light brown to brown calcareous claystone; Minor lithology: mottled light gray to white limestone; General comments: abundant microfractures within limestone intervals, fractures filled with dark-gray silt; light blue-green burrows and two thin greenish-gray intervals with few microscopic glassy fragments.



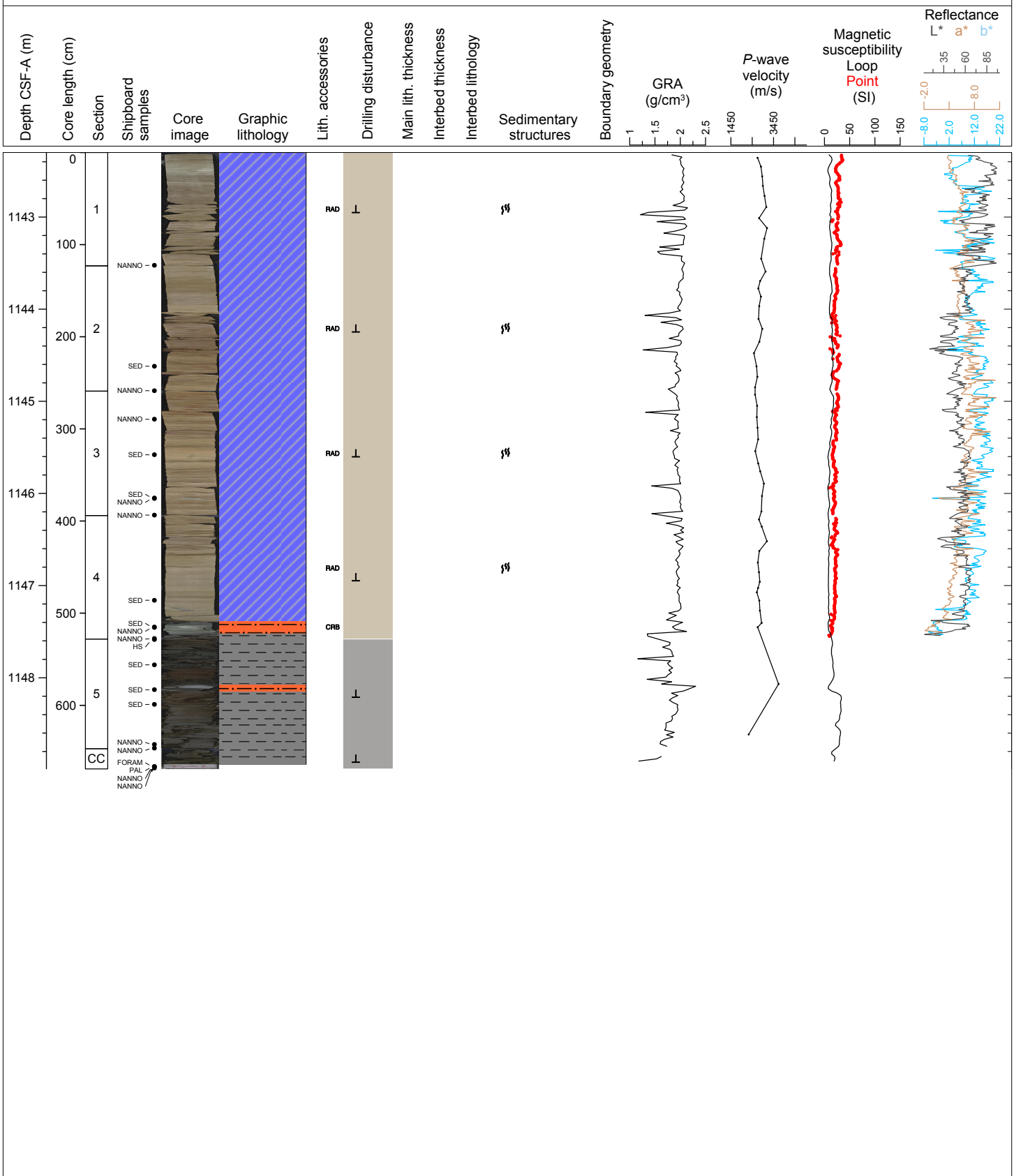
Hole 354-U1451B Core 68R, Interval 1132.6-1140.74 m (CSF-A)

Major lithology: beige mottled calcareous claystone with nanofossils and radiolarians; Minor lithology: dark gray clayey siltstone with radiolarians; General comments: fractures within clayey limestone are filled with silt.



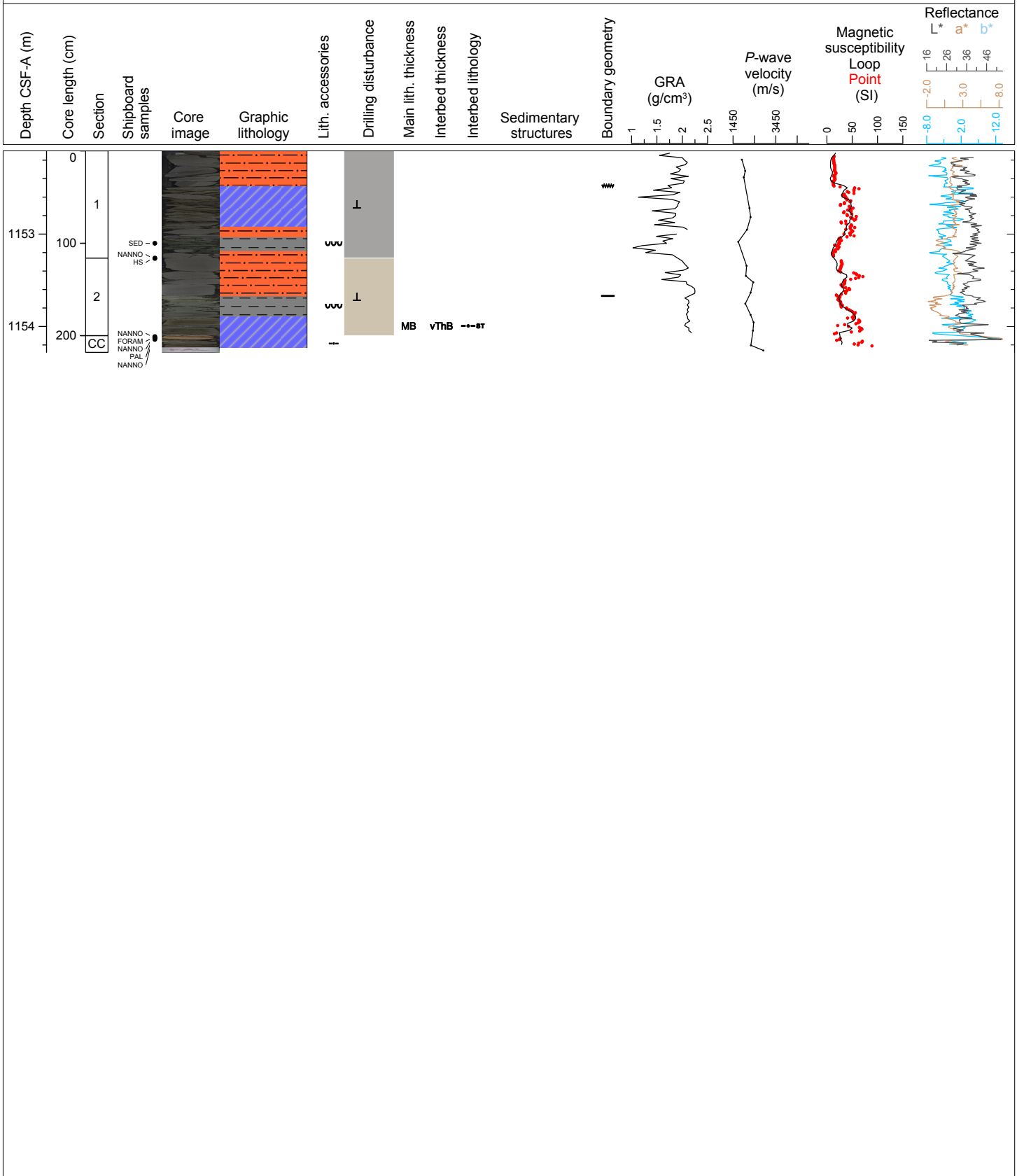
Hole 354-U1451B Core 69R, Interval 1142.3-1148.99 m (CSF-A)

Major lithology: light brown calcareous claystone with radiolarians and burrows infilled with red fine-textured carbonate material. Minor lithology: claystone with siltstone intrusions.



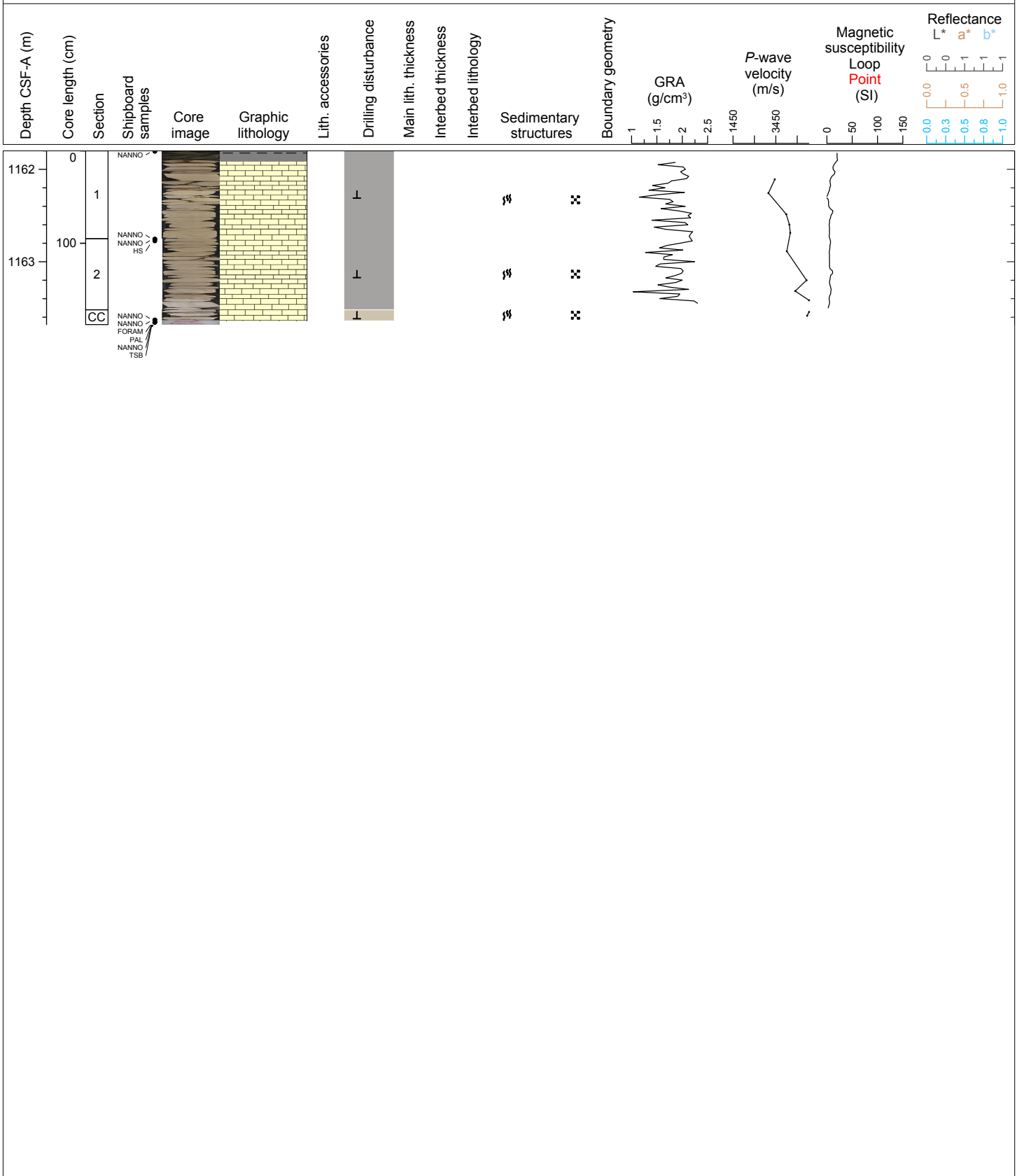
Hole 354-U1451B Core 70R, Interval 1152.1-1154.28 m (CSF-A)

Major lithology: succession of dark green claystones with volcanic ash, green nannofossil-rich claystone with mottling and gray siltstone.



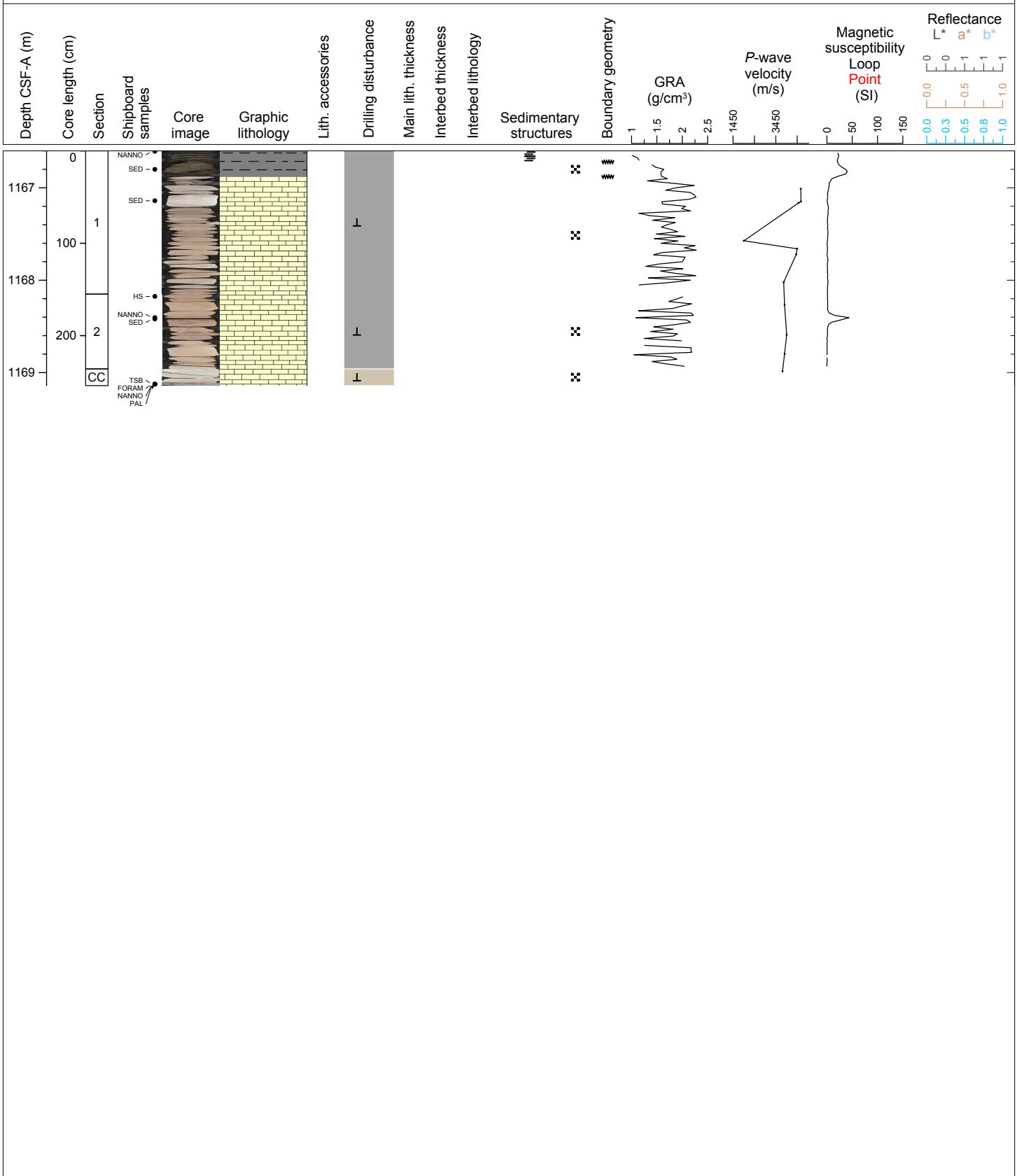
Hole 354-U1451B Core 71R, Interval 1161.8-1163.68 m (CSF-A)

Major lithology: yellow limestone with mottling and burrows.



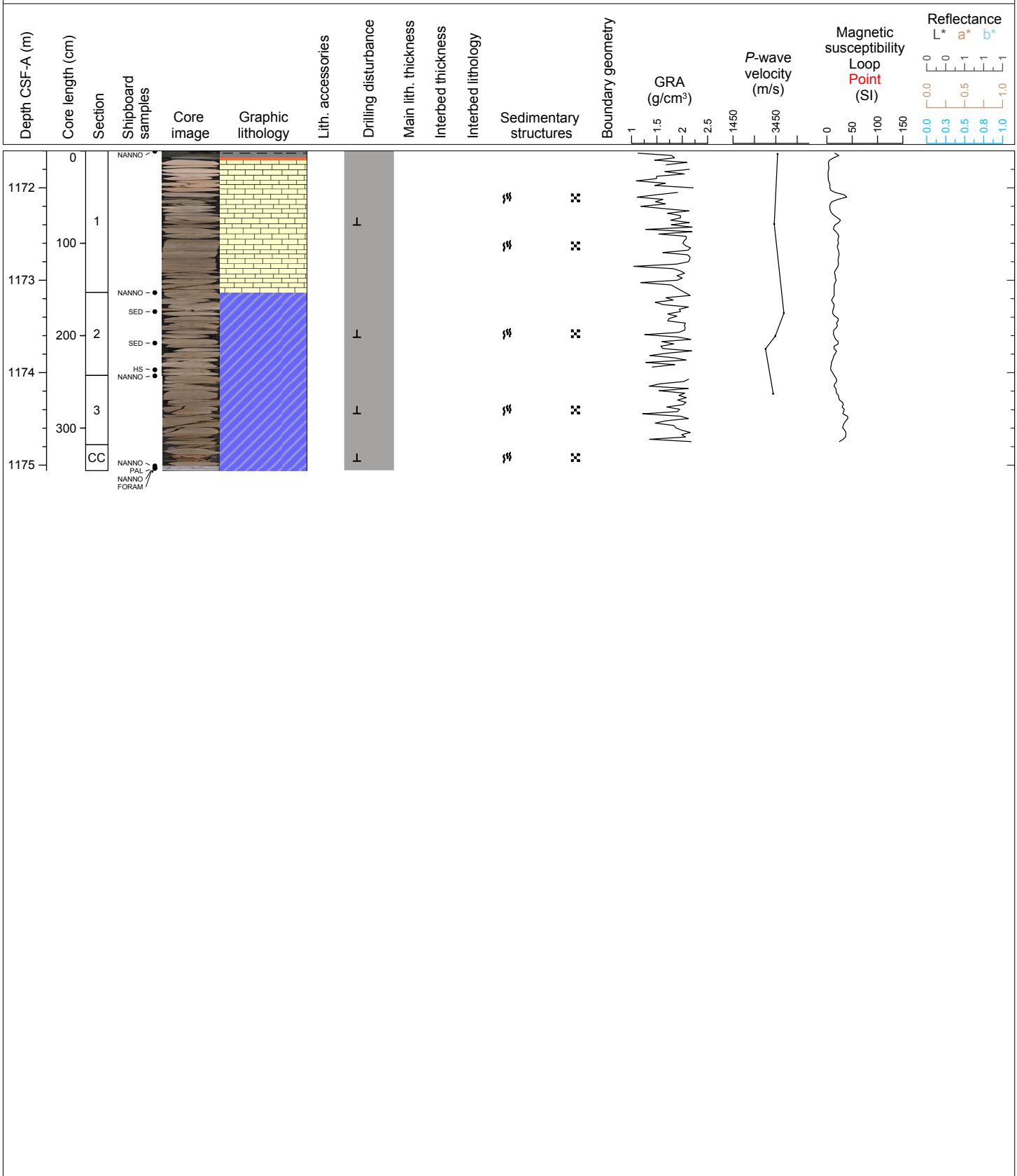
Hole 354-U1451B Core 72R, Interval 1166.6-1169.14 m (CSF-A)

Major lithology: white to light-pink limestone; Minor lithology: mottled and parallel-laminated green claystone.



Hole 354-U1451B Core 73R, Interval 1171.6-1175.06 m (CSF-A)

Major lithology: light brown to yellow nannofossil-rich claystone.



Sample	Top Depth [m]	Bottom Depth [m]	Lithology major or minor	Maximum grain size [mm]	Heavy minerals (decreasing abundance)	Sand texture [%]	Silt texture [%]	Clay texture [%]	Quartz [%]	Feldspar [%]	Mica [%]	Heavy minerals [%]	Clay minerals [%]	Glauconite [%]	Fe sulfides (opaques) [%]	Fe-oxides [%]	Chert [%]	Limestone [%]	Volcanic rock [%]	Other lithic grains [%]	Vitric grains [%]	Carbonate, autigenic [%]	Foraminifers [%]	Calcareous nannofossils [%]	Pteropod fragments [%]	Other calcareous bioclasts [%]	Radiolarians [%]	Diatoms [%]	Silicoflagellates [%]	Sponge spicule fragments [%]	Other biogenic fossil fragments [%]	Fish debris [%]	Plant debris [%]	Organic matter [%]	Total of group estimates [%]	Lithology prefix	Principal lithology	Lithology suffix	Lithology comment	Smear slide comment	
354-U1451B-23R-1-A 60/60-SED	724.8	724.8	minor lithology	0.33	less HM., opq, tourmaline, zoisite, clinozoisite, amphibole,																	1.5				2.5									silty	sand					
354-U1451B-23R-1-A 60/60-SED	1173.1	1173.1	minor lithology	0.36	less HM., opq, tourmaline, zoisite, clinozoisite, amphibole,																	-0.3				2.7									silty	sand					
354-U1451B-25R-1-A 95/95-SED	744.75	744.75	major lithology	0.46	less HM, opq, amphibole, garnet, zoisite, clinozoisite, zircon, epidote, sillimanite																	2													silty	sand	with plant fragments		chert is included; less calcite; with organic material		
354-U1451B-25R-1-A 95/95-SED	1177.29	1177.29	major lithology	0.36	less HM, opq, amphibole, garnet, zoisite, clinozoisite, zircon, epidote, sillimanite																	0			2.69										silty	sand	with plant fragments		chert is included; less calcite; with organic material		
354-U1451B-26R-CC-A 4/4-SED	753.83	753.83	minor lithology	0.19	less HM, opq, amphibole> zoisite, clinozoisite, garnet>zircon>staurolite?, rutile																	1													silty	sand				very rare nannofossils	
354-U1451B-26R-CC-A 4/4-SED	1181.45	1181.45	minor lithology	0.36	less HM, opq, amphibole> zoisite, clinozoisite, garnet>zircon>staurolite?, rutile																	0			2.7										silty	sand				very rare nannofossils	
354-U1451B-27R-2-A 15/15-SED	764.74	764.74	major lithology	0.31	opq>amphibole>zoisite, garnet, clinozoisite>zircon>epidote, rutile>sphene, tourmaline																	1													silty	sand				with few glauconitic grains; amphibole-quartz schist	
354-U1451B-27R-2-A 15/15-SED	1185.61	1185.61	major lithology	0.36	opq>amphibole>zoisite, garnet, clinozoisite>zircon>epidote, rutile>sphene, tourmaline																	0			2.71									silty	sand				with few glauconitic grains; amphibole-quartz schist		
354-U1451B-28R-2-A 49/49-SED	774.7	774.7	major lithology	0.41	opaque minerals, zoisite, garnet, clinozoisite, epidote, tourmaline, amphibole																	2			1									silty	sand				relatively rich in HM		
354-U1451B-29R-1-A 54/54-SED	783.04	783.04	major lithology																			0.5													clay	with plant fragments			with few nannofossils		
354-U1451B-29R-1-A 76/76-SED	783.26	783.26	major lithology	0.4	less HM, opaque minerals, amphibole, garnet, epidote, zoisite, clinozoisite, tourmaline, sillimanite																													silty	sand	with plant fragments			few nannofossils, green mica,		
354-U1451B-29R-2-A 62/62-SED	784.29	784.29	major lithology																						0									silty	clay						
354-U1451B-29R-2-A 67/67-SED	784.34	784.34	major lithology	0.2	less HM, opaque minerals, amphibole, garnet, epidote, zoisite, clinozoisite																															slit	with clay				well sorted, much HM but very fine grained

Sample	Top Depth [m]	Bottom Depth [m]	Sample domain abundance [%]	Lithology prefix	Principal lithology	Lithology suffix	Texture	Matrix - porosity	Matrix - glass [%]	Matrix - clay [%]	Matrix - carbonate [%]	Matrix - plagioclase [%]	Matrix - CPX [%]	Matrix - OPX [%]	Matrix - amphibole [%]	Matrix - biotite [%]	Matrix - quartz [%]	Matrix - opaques [%]	Matrix - other minerals [%]	Matrix - lithic components [%]	Matrix - scoria components [%]	Matrix - pumice components [%]	Matrix - biogenic components [%]	Secondary matrix minerals [%]	Matrix component - sum [%]	Clast grain size	Clast type	Groundmass in clast	Clast texture	PLAG phenocryst original [%]	CPX phenocryst original [%]	OPX phenocryst original [%]	AMPH phenocryst original [%]	BIOT phenocryst original [%]	QZ phenocryst original [%]	OPAQUES phenocryst original [%]	Groundmass [%]	Vesicles [%]	Secondary clast minerals [%]	Clast component - sum [%]	Alteration	Comment		
354-U1451B-48R-2-W 52/55-TSB(52-55)-TS_4	958.99	959.02			silt		layered (grain size)																																				The TS come from well-laminated silt turbidite bed. Microscopic observation indicate the lamination comprises alternation of platy mica and organic rich layers with quartz and feldspar rich layers	
354-U1451B-48R-2-W 52/55-TSB(52-55)-TS_4	958.99	959.02																																										This TS made from a well laminated silt turbidite bed. The lamination comprise alternation of platy mica and organic rich layers with quartz and feldspar rich layers
354-U1451B-50R-1-W 101/104-TSB(101-103.5)-TS_5	978.01	978.03			silt		layered (grain size)																																				This TS made from a well laminated silt turbidite bed. The lamination comprise alternation of platy mica and organic rich layers with quartz and feldspar rich layers	
354-U1451B-70R-1-W 84/87-TSB(84-87)-TS_10	1152.94	1152.96			sandstone	with carbonates		low																		fine sand															absent/fresh	matrix:60%, angular grains, quartz rich, poor altered micas; much white micas; rounded claystone fragments; HM consists of tourmaline, allanite and zircon		
354-U1451B-71R-1-W 35/37-TSB(35-37)-TS_14	1162.15	1162.17		foraminifer rich	calcareous claystone			low																																	absent/fresh			
354-U1451B-72R-1-W 14/17-TSB(14-17)-TS_11	1166.74	1166.76			tuff			low																		cobble	glassy	aphyric														high	tuff breccias; changed to clay; antigenic zeolite minerals;	
354-U1451B-72R-2-W 46/49-TSB(46-49)-TS_13	1168.61	1168.63		foraminifer rich	calcareous claystone			low																																	absent/fresh			
354-U1451B-73R-3-W 9/11-TSB(9-11)-TS_12	1174.03	1174.05		foraminifer rich	calcareous claystone			low																																				

Sample	Top Depth [m]	Bottom Depth [m]	Piece number (lookup)	Unit/ Subunit	Thin section number (informal)	Thin section summary	Thin section image number	Thin section image number (cross-polarized)
354-U1451B-48R-2-W 52/55-TSB(52-55)-TS_4	958.99	959.02			TS_4		28762551	28762571
354-U1451B-48R-2-W 52/55-TSB(52-55)-TS_4	958.99	959.02				Alternation of platy mica and organic rich layers with quartz and feldspar rich layers		
354-U1451B-48R-2-W 52/55-TSB(52-55)-TS_4	958.99	959.02				This TS made from a well laminated silt turbidite bed. The lamination comprise alternation of platy mica and organic rich layers with quartz and feldspar rich layers		
354-U1451B-50R-1-W 101/104-TSB(101-103.5)-TS_5	978.01	978.03			TS_5		28762591	28762631
354-U1451B-50R-1-W 101/104-TSB(101-103.5)-TS_5	978.01	978.03				This TS made from a well laminated silt turbidite bed. The lamination comprise alternation of platy mica and organic rich layers with quartz and feldspar rich layers		
354-U1451B-65R-3-W 23/26-TSB(23-26)-TS_16	1116	1116.03			TS_16	fine sandstone with calcareous matrix (wacke) ; matrix:50%, angular grains, quartz rich, poor altered micas; much white micas; rounded claystone fragments; HM consists of tourmaline, allanite and zircon	28762911	28762961
354-U1451B-65R-4-W 28/31-TSB(28-31)-TS_17	1116.8	1116.83			TS_17	fine sandstone with calcareous matrix (wacke); matrix:60%, angular grains, quartz rich, poor altered micas; much white micas; rounded claystone fragments; HM consists of tourmaline, allanite and zircon	28762981	28763001
354-U1451B-68R-CC-PAL-FORAM-TSB(0-5)-TS_7	1140.66	1140.71			TS_7		28713481	28713501
354-U1451B-70R-1-W 84/87-TSB(84-87)-TS_10	1152.94	1152.97			TS_10	fine sandstone with calcareous matrix (wacke); matrix:60%, angular grains, quartz rich, poor altered micas; much white micas; rounded claystone fragments; HM consists of tourmaline, allanite and zircon	28762691	28762711
354-U1451B-71R-1-W 35/37-TSB(35-37)-TS_14	1162.15	1162.17			TS_14	milky white, foraminifera rich limestone (wackestone): skeletal grain ; foraminifera (25-35%); matrix; micritic calcites (75-55%)	28762871	28762891
354-U1451B-71R-CC-PAL-FORAM-TSB(0-5)-TS_8	1163.63	1163.68			TS_8		28713521	28713541
354-U1451B-72R-1-W 14/17-TSB(14-17)-TS_11	1166.74	1166.77			TS_11	intensely altered tuff breccia; changed to clay; antigenic zeolite minerals are observed.	28762731	28762761
354-U1451B-72R-2-W 46/49-TSB(46-49)-TS_13	1168.61	1168.64			TS_13	milky white, foraminifera rich limestone (wackestone): skeletal grain ; foraminifera (25-35%); matrix; micritic calcites (75-55%)	28762831	28762851
354-U1451B-72R-CC-PAL-FORAM-TSB(0-3)-TS_9	1169.11	1169.14			TS_9		28713561	28713581
354-U1451B-73R-3-W 9/11-TSB(9-11)-TS_12	1174.03	1174.05			TS_12	milky white, foraminifera rich limestone (wackestone): skeletal grain ; foraminifera (25-35%); matrix; micritic calcites (75-55%)	28762791	28762811
354-U1451B-73R-CC-PAL-FORAM-TSB(0-0.02)-TS_15	1175.01	1175.01			TS_15		28763101	28763121