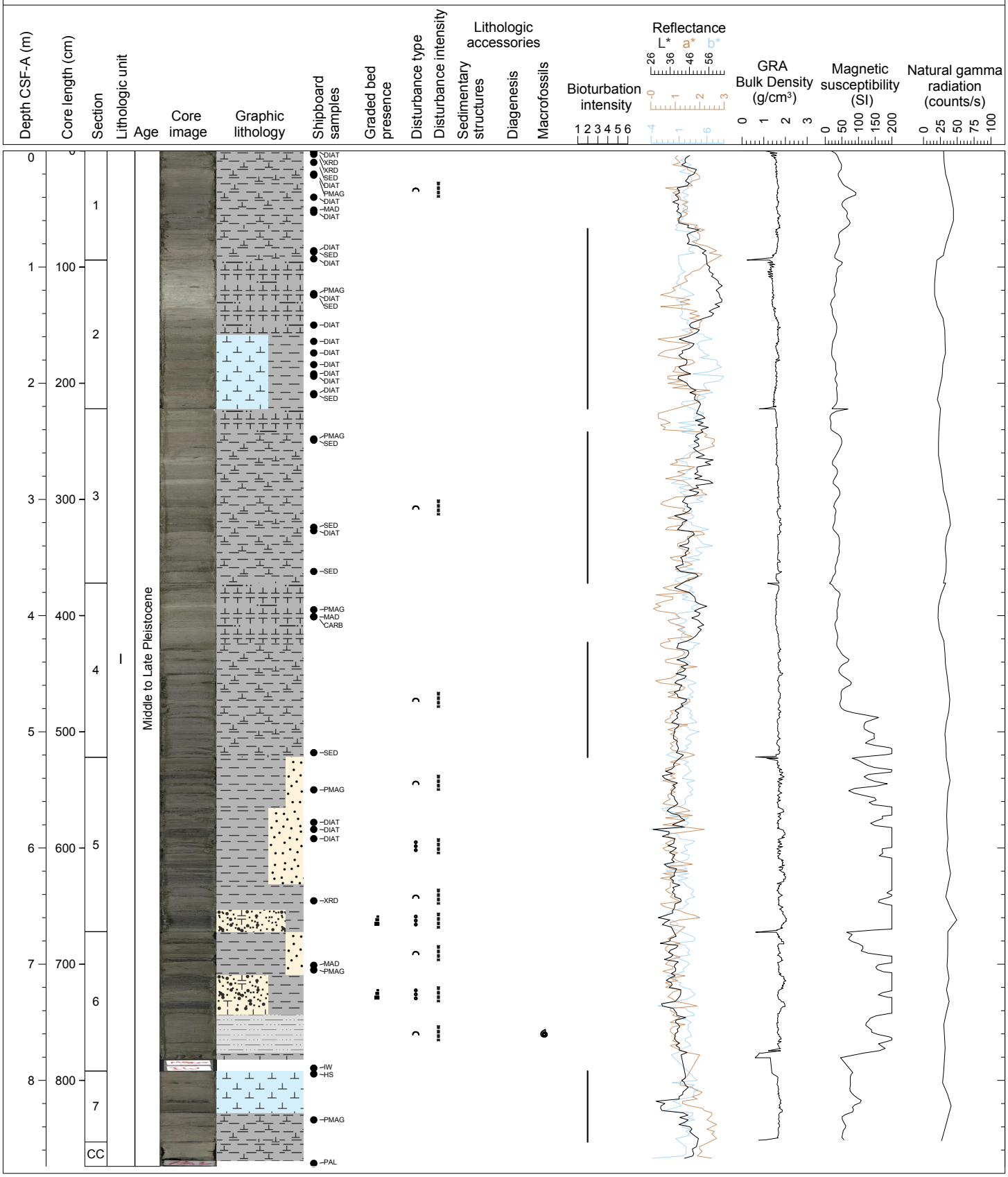
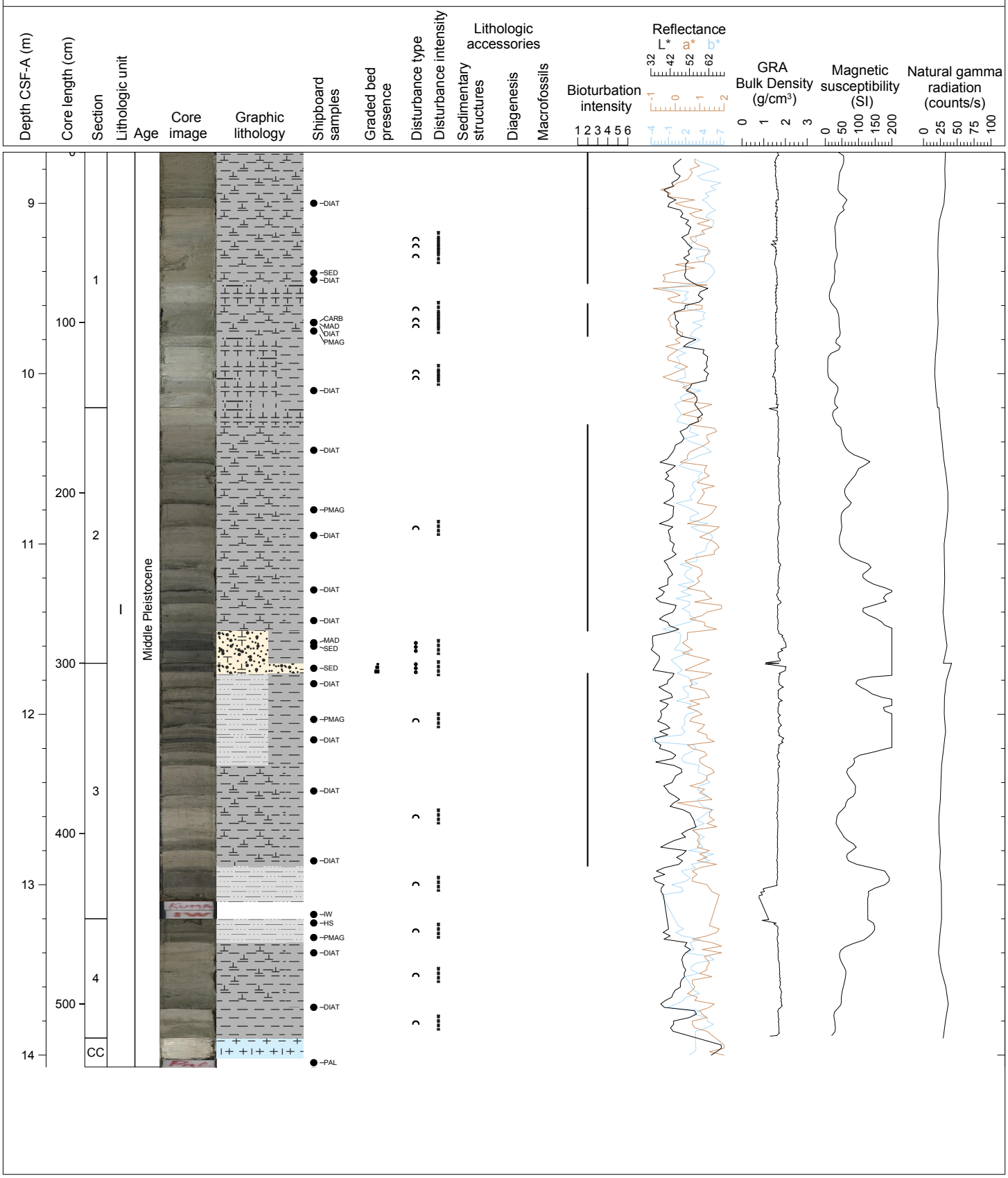
Hole 355-U1457A Core 1H, Interval 0.0-8.74 m (CSF-A)

NANNOFOSSIL-RICH CLAY WITH SILT, CALCAREOUS-RICH CLAY WITH SILT, NANNOFOSSIL OOZE, CLAY WITH NANNOFOSSIL, SILTY SAND WITH NANNOFOSSIL. Light brown to light greenish NANNOFOSSIL OOZE, light gray NANNOFOSSIL RICH CLAY and light white CALCAREOOUS RICH CLAY, are the major lithologies. The lithologies are often alternatively interbedded. The blackish SILTY SAND thin layer are often found interbedded as erosive contact boundary in the core. Pyrite black patches are common in brownish NANNOFOSSIL RICH CLAY and CALCAREOUS RICH CLAY.



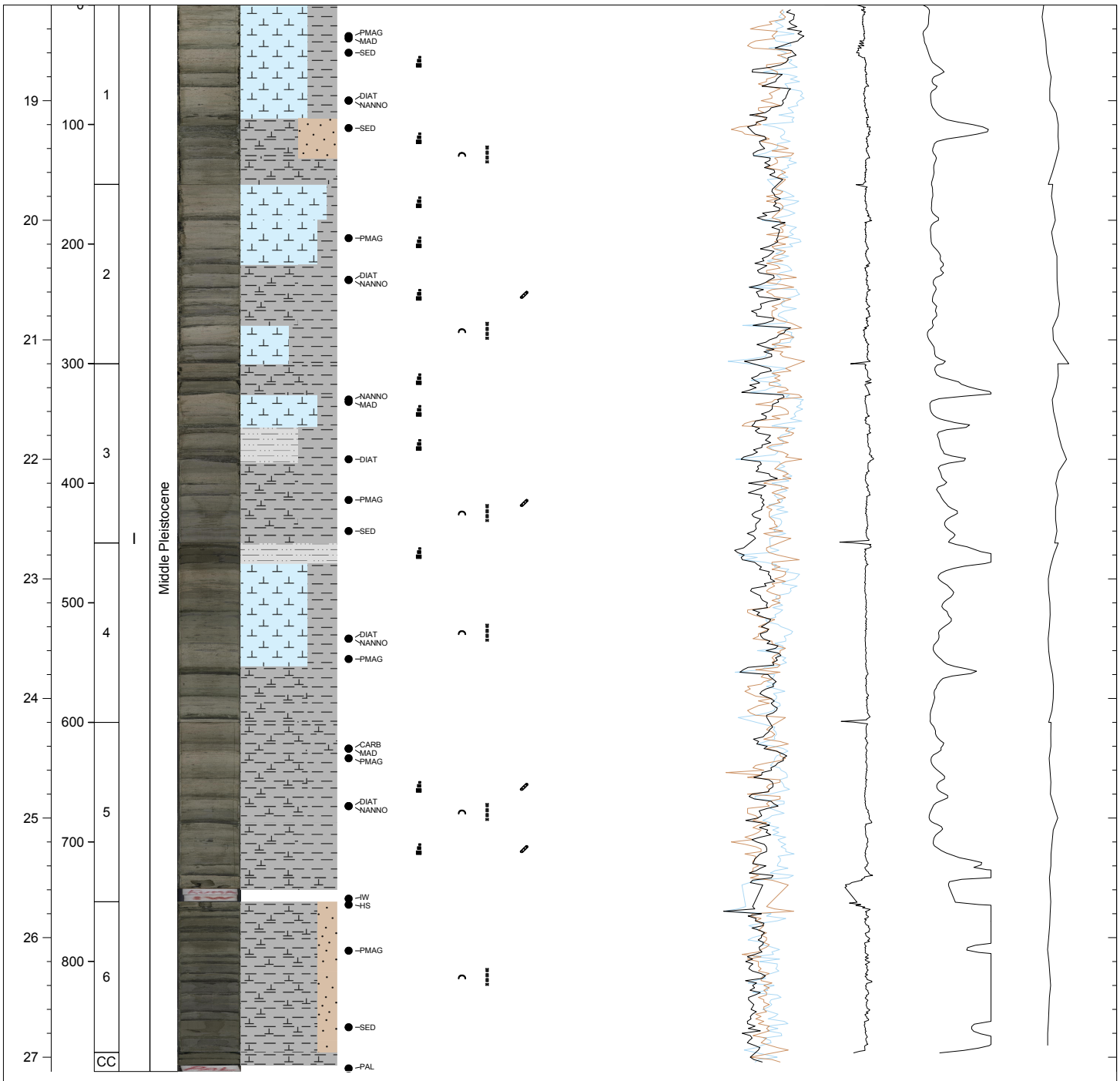
Hole 355-U1457A Core 2H, Interval 8.7-14.07 m (CSF-A)

NANNOFOSSIL OOZE, NANNOFOSSIL-RICH CLAY WITH SILT, CALCAREOUS-RICH CLAY WITH SILT, SILTY SAND, SILTY CLAY WITH NANNOFOSSILS. Light brown NANNOFOSSIL-RICH CLAY WITH SILT, interbedded with greenish NANNOFOSSIL OOZE and light white CALCAREOUS CLAY WITH SILT are the dominant lithologies. Thin (< 1 cm) SILTY SAND layers are found interbedded between layers of clay-rich sediment. Thin layers (< 20 cm) of SILTY SAND and SILTY CLAY are found interbedded from the bottom of Section 2 to top of Section 3. Bioturbation is observed in greenish NANNOFOSSIL OOZE and brownish NANNOFOSSIL-RICH CLAY WITH SILT. Diffuse pyrite patches are common in CALCAREOUS-RICH CLAY WITH SILT and in NANNOFOSSIL-RICH CLAY WITH SILT. Common burrows include Planolites and Chondrites.



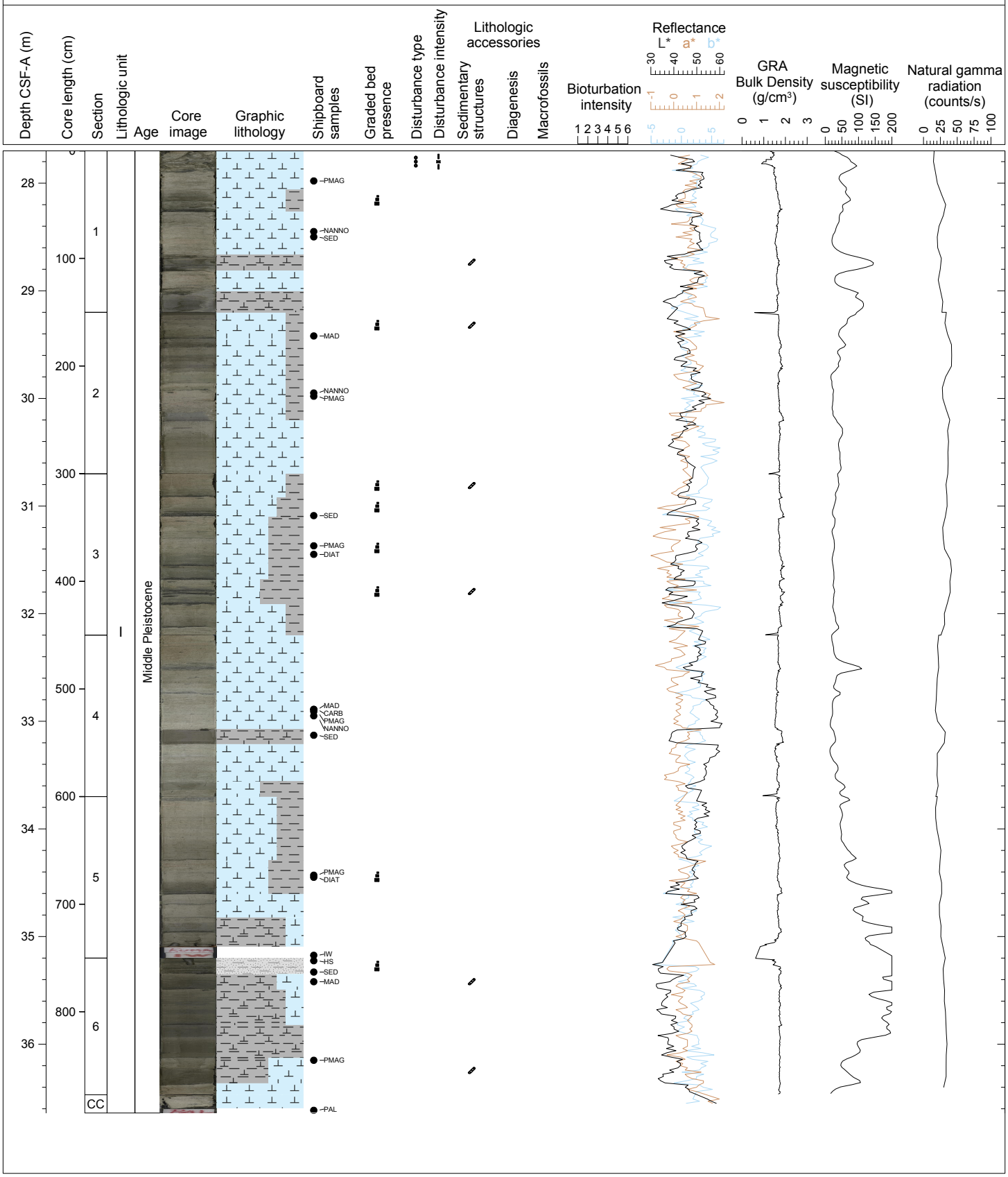
Hole 355-U1457A Core 3H, Interval 18.2-27.12 m (CSF-A)

NANNOFOSSIL OOZE, NANNOFOSSIL-RICH CLAYSTONE WITH SILT, SILTY CLAY WITH NANNOFOSSILS, SANDY SILT, SILTY SAND, CLAYEY SILT. Whitish to light gray NANNOFOSSIL OOZE, and gray NANNOFOSSIL-RICH CLAY WITH SILT are the dominant lithologies. CLAY layers increase in frequency down core. Medium-bedded (15-30 cm) NANNOFOSSIL OOZE or NANNOFOSSIL-RICH CLAY WITH SILT grades down into thin (<5 cm) SILTY CLAY WITH NANNOFOSSILS that overlies an erosive boundary. This cycle occurs repeated throughout the core but is more common in the upper parts. The proportion of clay in the cycle increases down core. Some sections show burrow structures, particularly in NANNOFOSSIL OOZE and NANNOFOSSIL-RICH CLAY.



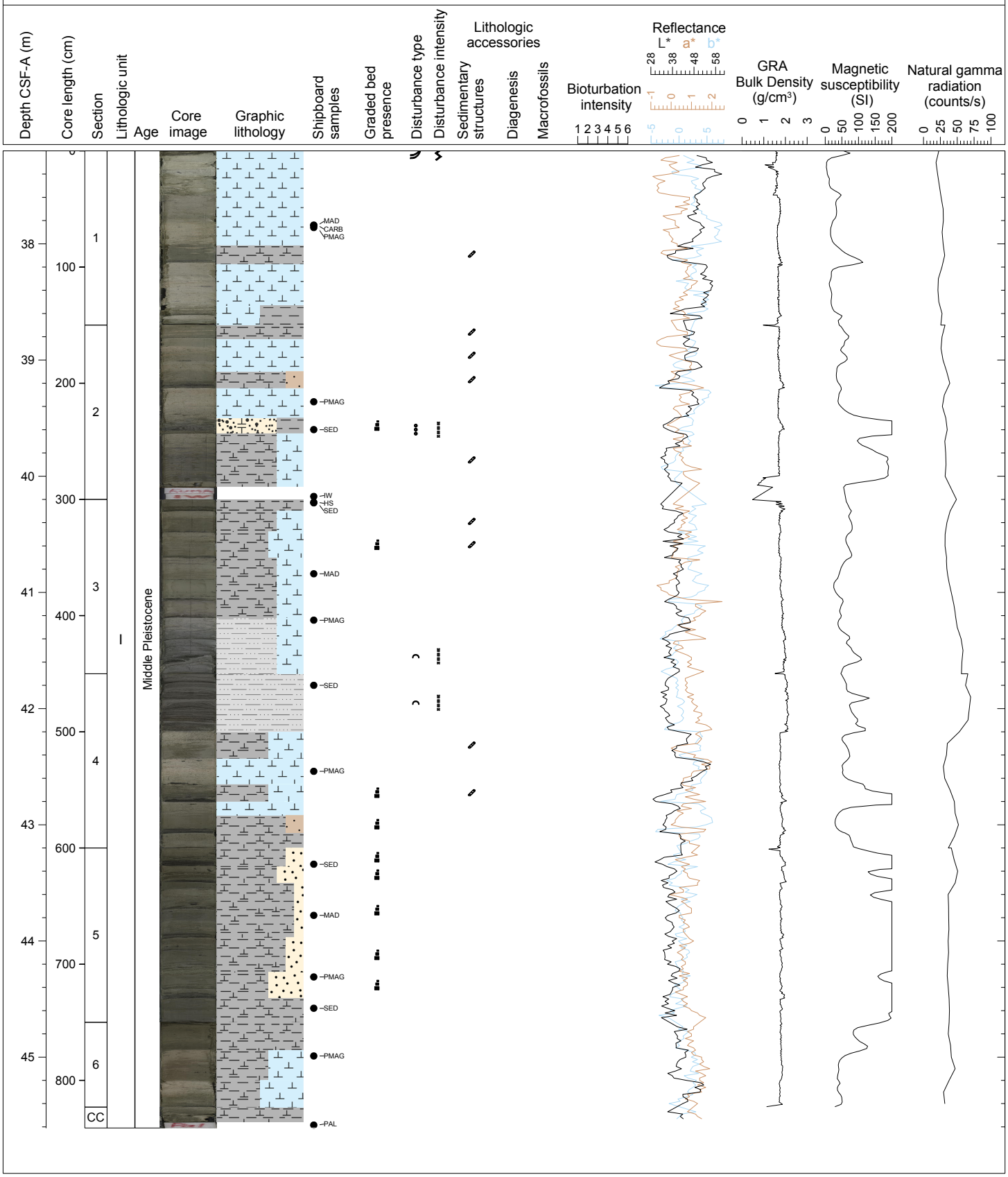
Hole 355-U1457A Core 4H, Interval 27.7-36.64 m (CSF-A)

NANNOFOSSIL OOZE, NANNOFOSSIL-RICH CLAY, SILTY CLAY, SANDY CLAY. Light gray NANNOFOSSIL OOZE and gray NANNOFOSSIL-RICH CLAY are the dominant lithologies. Cycles of NANNOFOSSIL OOZE overlain by NANNOFOSSIL-RICH CLAY are common in the core. The basal clay-rich sediment has an erosive boundary and is sometimes normal grading. The thickness of NANNOFOSSIL OOZE beds is greater than NANNOFOSSIL-RICH CLAY. The thickness of NANNOFOSSIL-RICH CLAY beds increases in the lower part of core (Section 6). A dark gray SANDY SILT is seen at the top of Section 6. Burrows are observed in the NANNOFOSSIL-RICH CLAY.



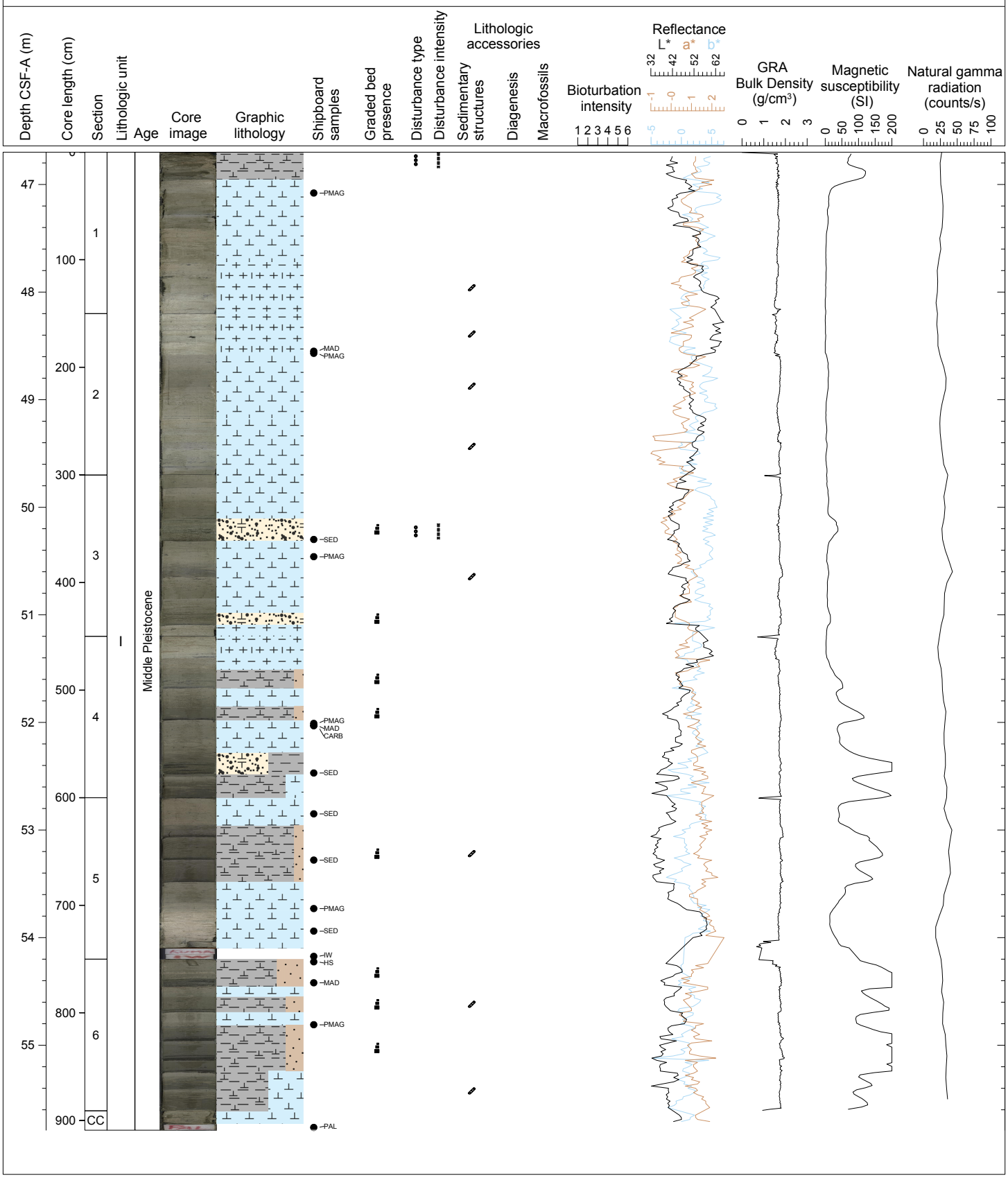
Hole 355-U1457A Core 5H, Interval 37.2-45.61 m (CSF-A)

NANNOFOSSIL OOZE, NANNOFOSSIL-RICH CLAY, NANNOFOSSIL-RICH CLAY WITH SILT, SILTY CLAY, SILTY SAND, CLAYEY SILT, SANDY SILT. Light gray NANNOFOSSIL OOZE and gray NANNOFOSSIL-RICH CLAY are the dominant lithologies. Thick bedded NANNOFOSSIL OOZE is overlain by NANNOFOSSIL-RICH CLAY. NANNOFOSSIL-RICH CLAY WITH SILT is overlain by thin SILTY SAND or SANDY SILT. These latter two lithologies show generally erosive basal boundaries. Normal grading is observed within the thin SILTY SAND or SANDY SILT layers. Burrows are frequently observed.



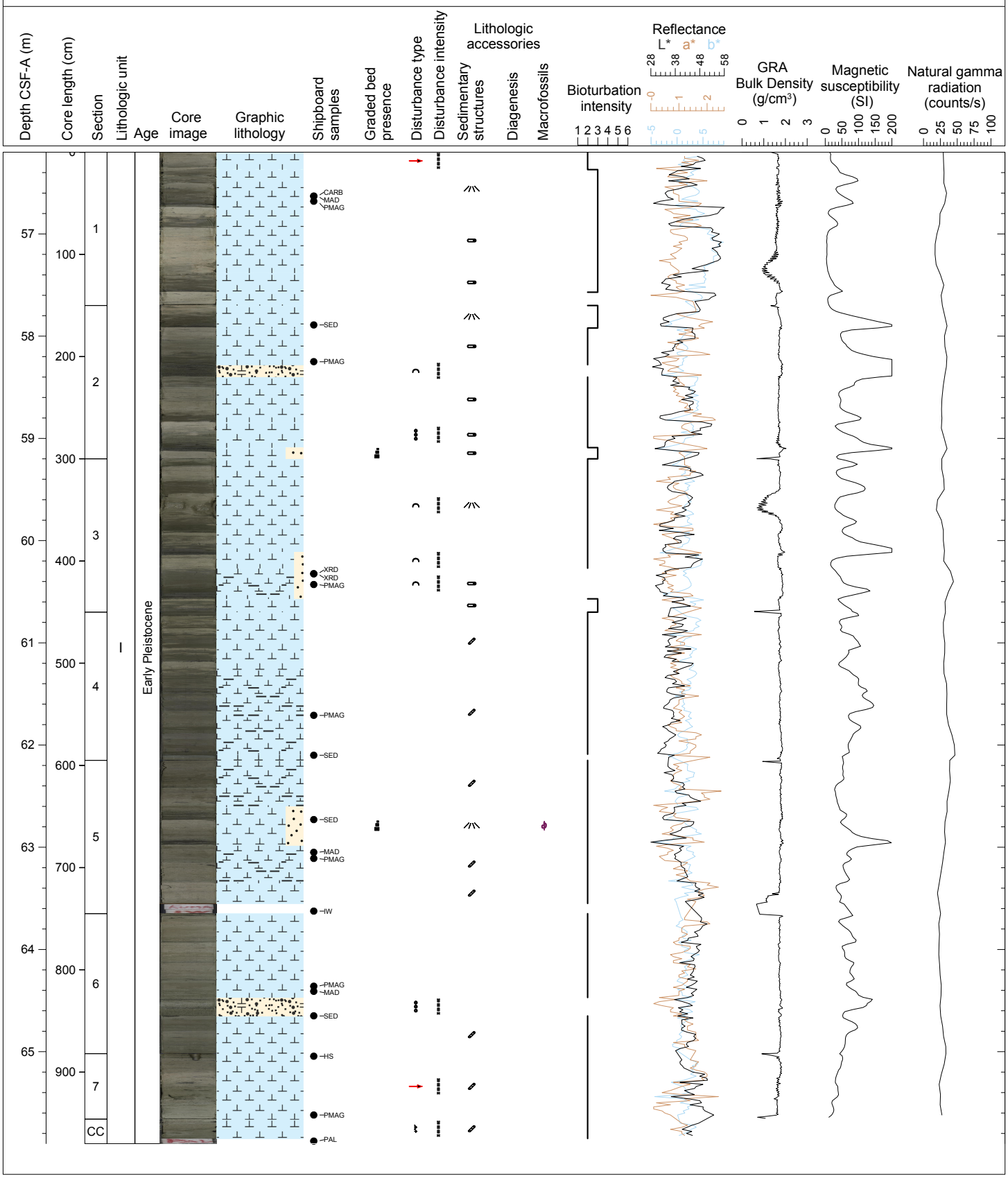
Hole 355-U1457A Core 6H, Interval 46.7-55.79 m (CSF-A)

NANNOFOSSIL OOZE, CALCAREOUS OOZE, NANNOFOSSIL-RICH CLAY. SILTY SAND, SANDY SILT, CLAYEY SILT. Light gray NANNOFOSSIL OOZE and gray NANNOFOSSIL-RICH CLAY with whitish CALCAREUOUS OOZE are the dominant lithologies. Dark gray SILTY SAND, SANDY SILT and CLAYEY SILT are present as thin (<10 cm) layers overlying NANNOFOSSIL OOZE and NANNOFOSSIL-RICH CLAY. Boundary overlying NANNOFOSSIL OOZE beds are clearly erosive. Burrowing is intense in NANNOFOSSIL-RICH CLAY and CALCAREOUS OOZE. A medium bedded (ca. 20 cm) SILTY SAND occurs in the middle of Section 3.



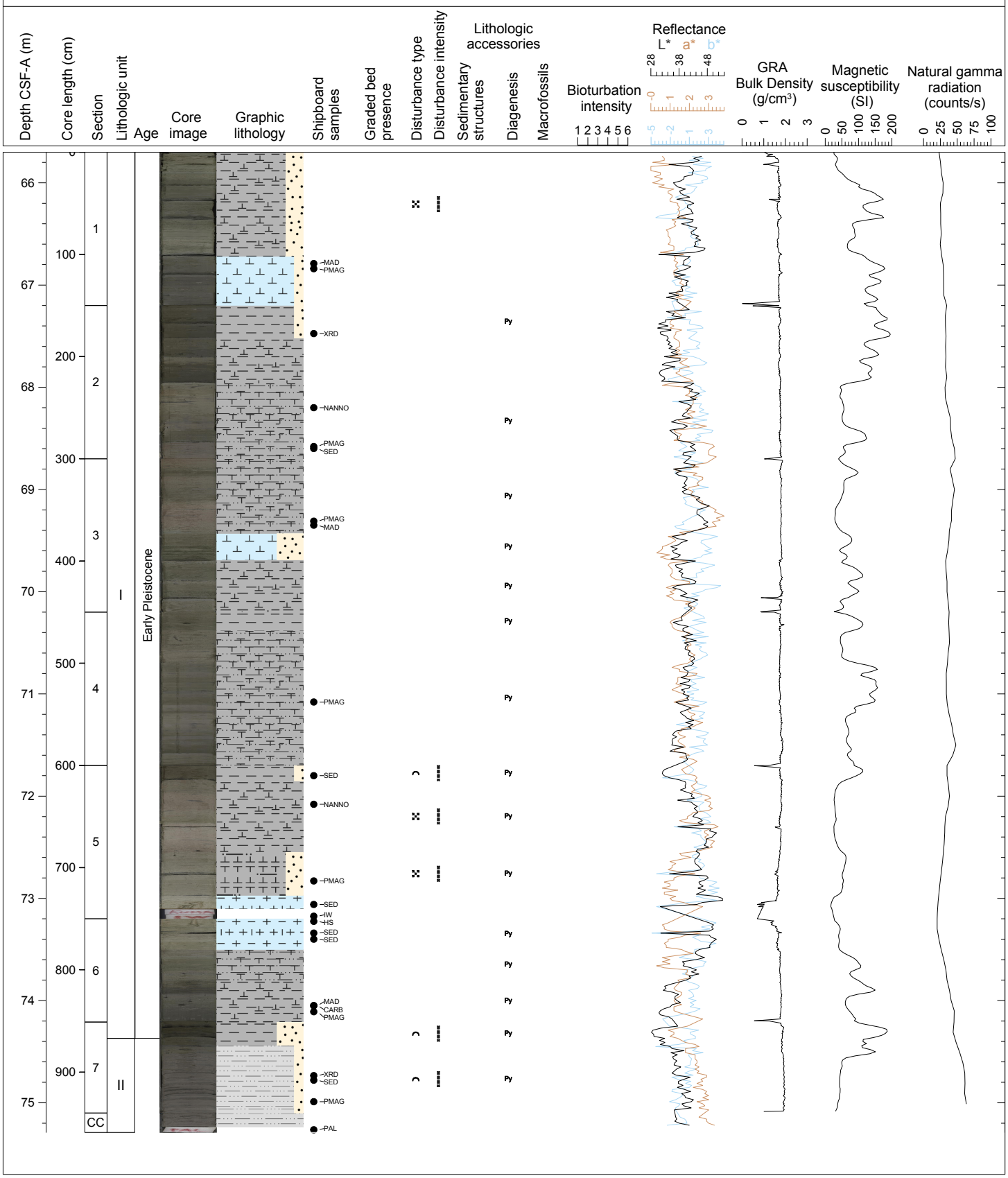
Hole 355-U1457A Core 7H, Interval 56.2-65.9 m (CSF-A)

NANNOFOSSIL OOZE, NANNOFOSSIL-RICH CLAY, SILTY SAND. Light brown to light greenish NANNOFOSSIL OOZE and dark gray NANNOFOSSIL-RICH CLAY are the major lithologies. Greenish and brownish NANNOFOSSIL OOZE beds are often interbedded. Thin blackish SILTY SAND layer, rich in mica, are interbedded with NANNOFOSSIL OOZE and NANNOFOSSIL-RICH CLAY, which they overlie with an erosive boundary. The thickness of the SILTY SAND beds increases towards the bottom of core and the sediment becomes gray to light white and rich in foraminifers. Diffuse black pyrite patches are very common. Bioturbation is common. Greenish NANNOFOSSIL OOZE is dominated by Chondrites, whereas brownish NANNOFOSSIL OOZE is dominated by Planolites and composite burrows.



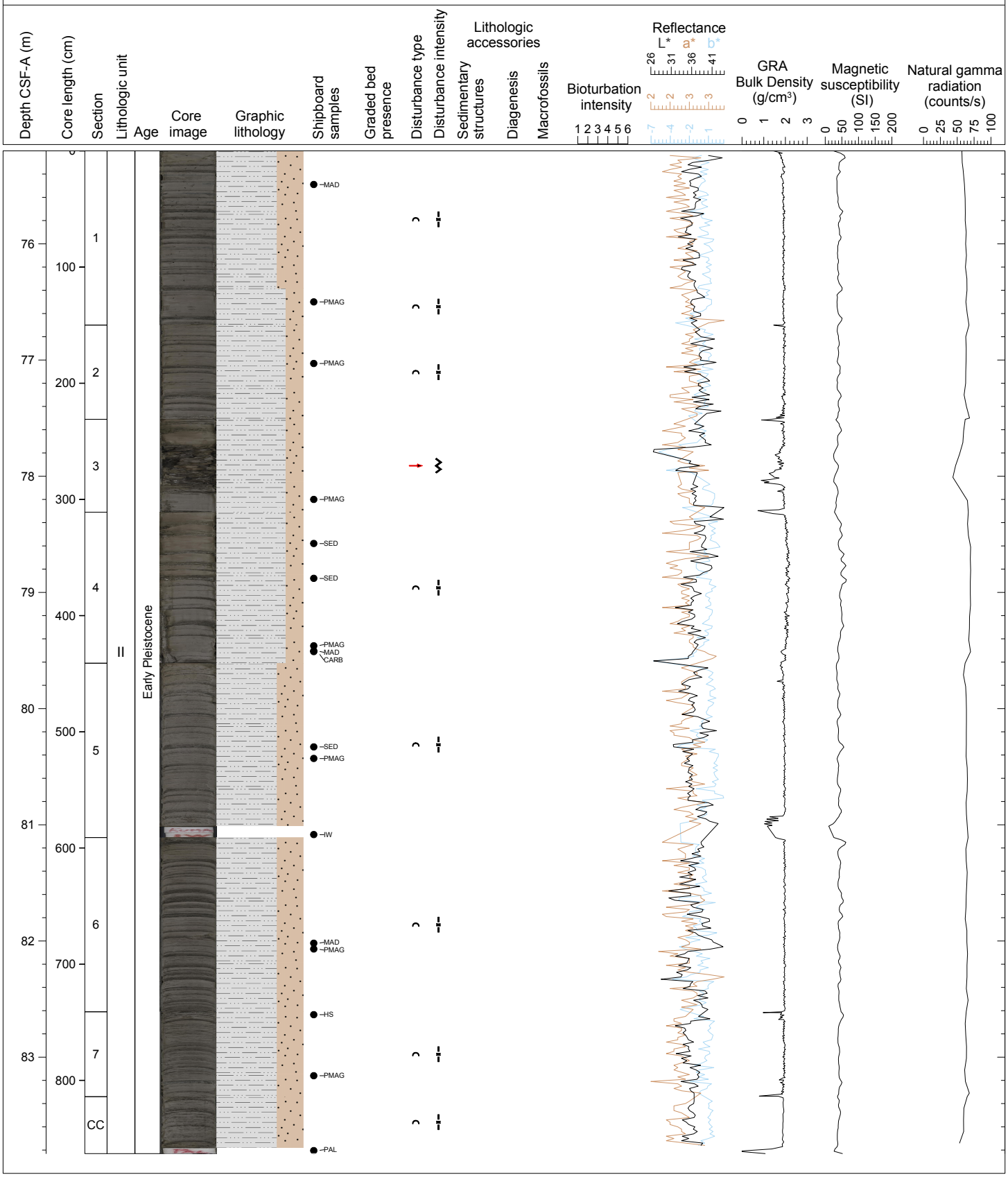
Hole 355-U1457A Core 8H, Interval 65.7-75.29 m (CSF-A)

NANNOFOSSIL OOZE WITH CLAY, NANNOFOSSIL-RICH CLAY, FORAMINIFER-RICH CLAY, SILTY CLAY, SILTY SAND, CALCAREOUS RICH CLAY, CALCAREOUS OOZE. Light brownish FORAMINIFER-RICH CLAY, light greenish NANNOFOSSIL OOZE WITH CLAY, light gray to brown gray SILTY CLAY and white CALCAREOUS-RICH CLAY are the major lithologies. The light green thin bedded NANNOFOSSIL OOZE with CLAY is repeatedly interbedded with brownish FORAMINIFER-RICH CLAY. Thin layers of blackish SILTY SAND are often observed interbedded in the core with erosive basal contacts. SILTY CLAY is observed at the bottom of the core. Bioturbation and diffused pyritic black patches along with very fine pyrite grains are abundant. Chondrites burrows are common in greenish NANNOFOSSIL OOZE WITH CLAY, while other common burrows are Planolites and composite burrows.



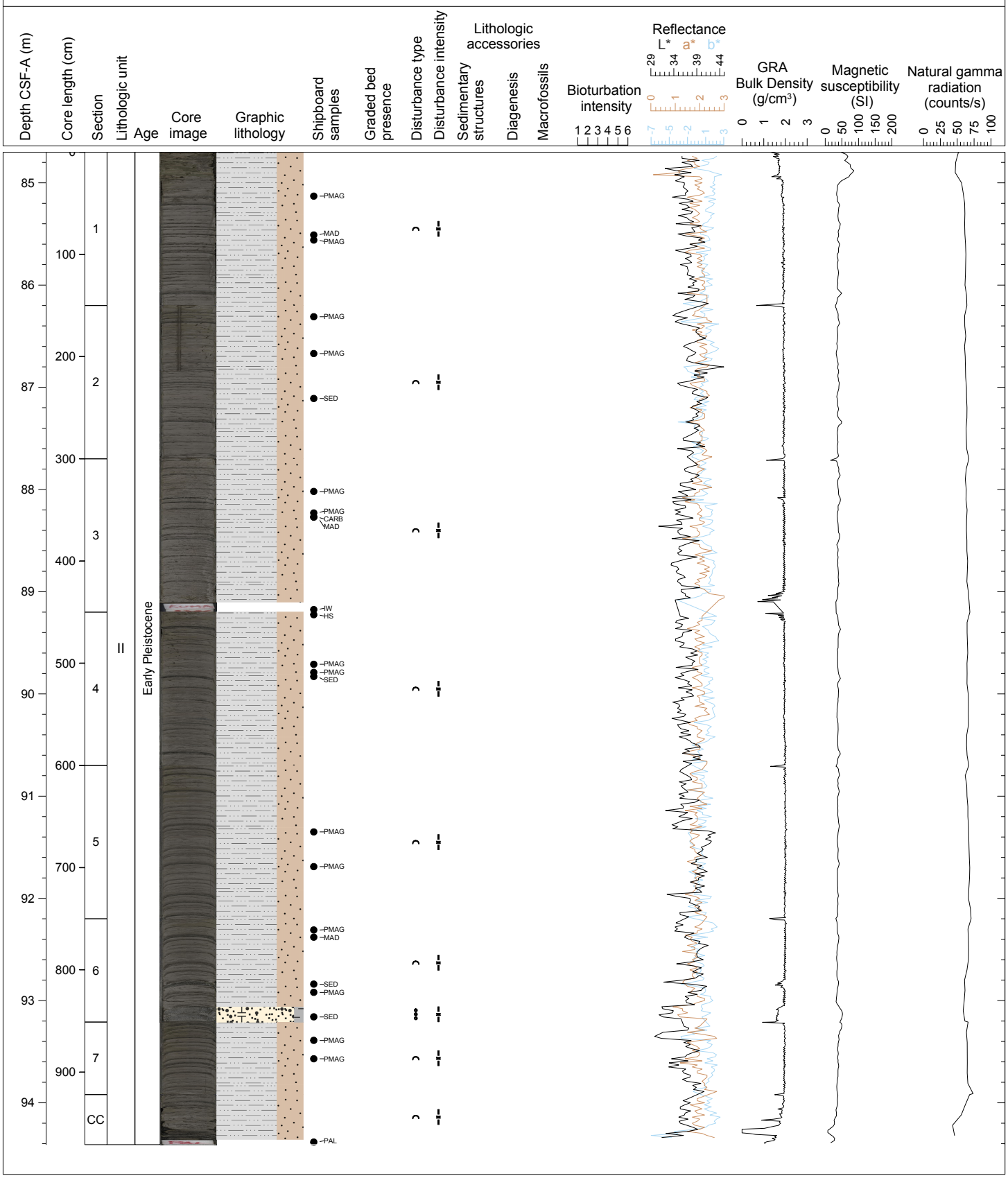
Hole 355-U1457A Core 9H, Interval 75.2-83.83 m (CSF-A)

SILTY CLAY, SANDY SILT. Light brownish gray SILTY CLAY interbedded with thin SANDY SILT is the major lithology. The thin bedded SANDY SILT (<5 cm) and SILTY CLAY (< 10 cm) are found alternately interbedded through the core. The SILTY CLAY is occasionally found in beds up to 25 cm thick. SANDY SILT interbeds are more frequent towards the bottom of the core. Blackish bands are often observed in the top of the core. The sediment is punctured and destroyed in Section 3, 23-55 cm by drilling.



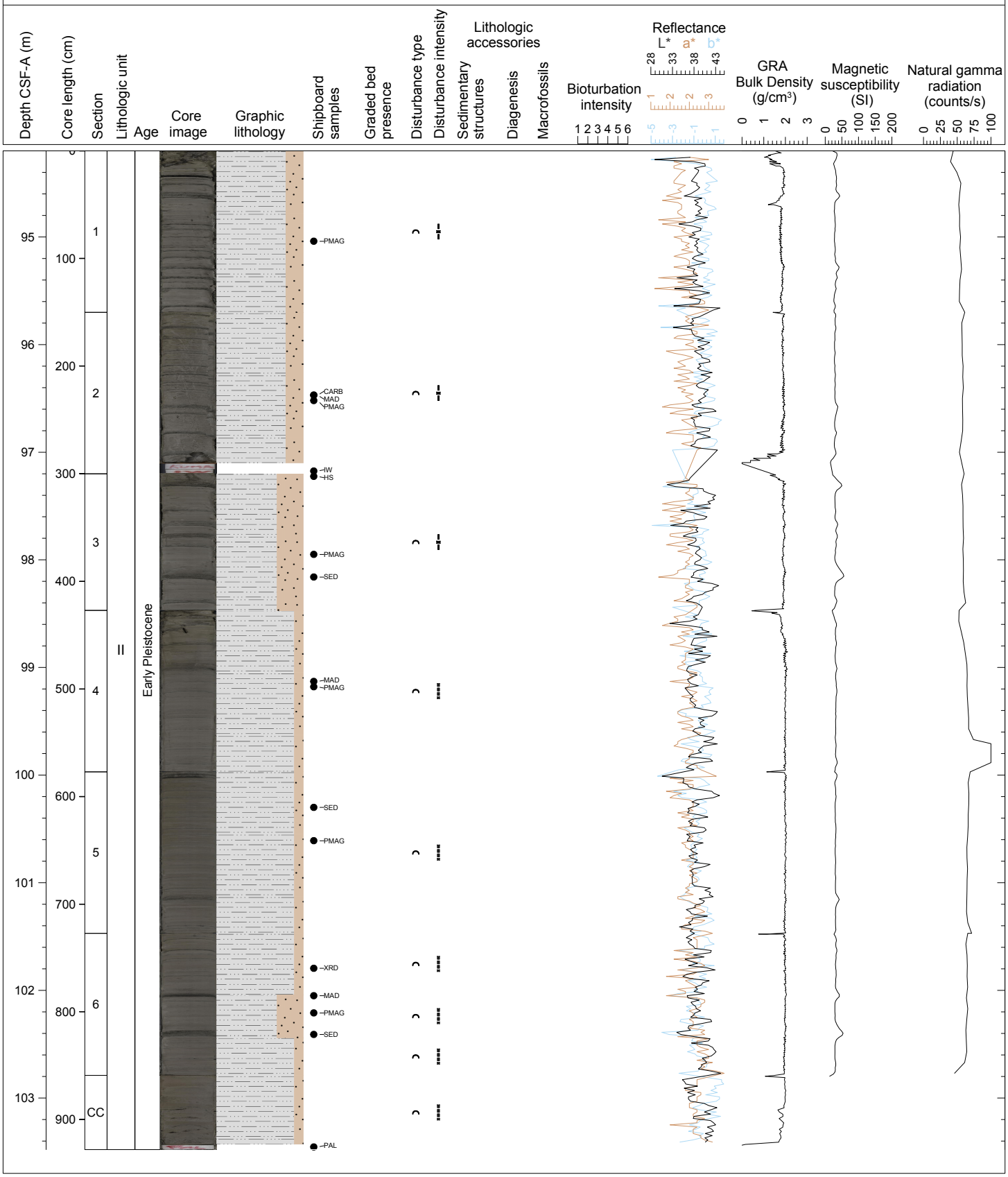
Hole 355-U1457A Core 10H, Interval 84.7-94.41 m (CSF-A)

SILTY CLAY, SANDY SILT. Light brownish gray SILTY CLAY, interbedded with thin SANDY SILT is the major lithology. Thin bedded SANDY SILTY (<5 cm) and thin bedded SILTY CLAY (< 10 cm) are found interbedded through the core. SILTY CLAY is occasionally found as beds up to 20 cm thick. The SANDY SILT interbeds are more frequent towards the bottom of the core. A single, 25 cm-thick SANDY SILT bed is interbedded with thin SILTY CLAY is found in the bottom of Section 6.



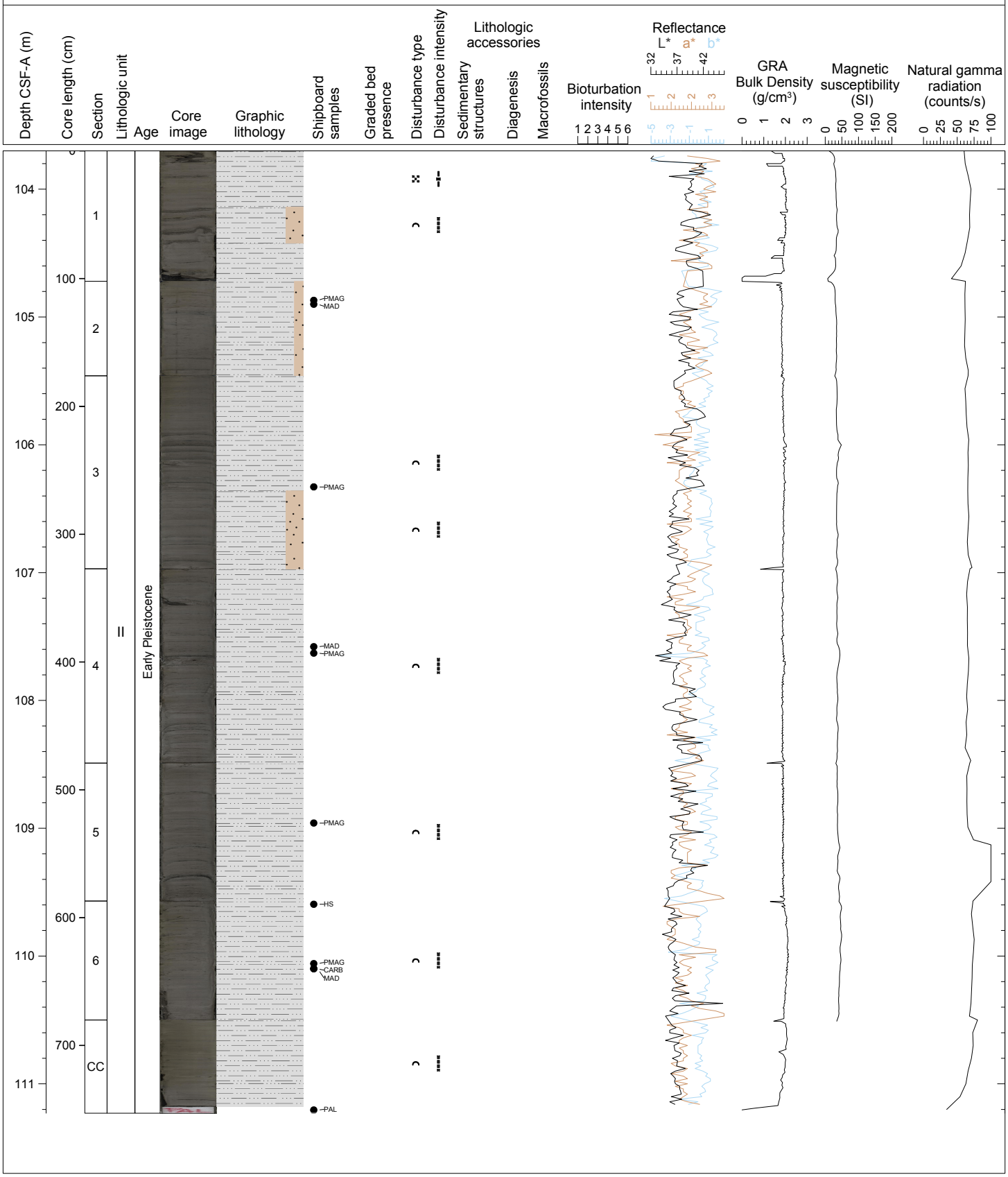
Hole 355-U1457A Core 11H, Interval 94.2-103.48 m (CSF-A)

SILTY CLAY, SANDY SILT. Light brownish gray SILTY CLAY interbedded with thin-bedded SANDY SILT is the major lithology. Thin bedded, normally graded (<5 cm) SANDY SILT is interbedded with medium to thick bedded SILTY CLAY. The SILTY CLAY is occasionally up to 20 cm thick. The frequency of the SANDY SILT interbeds decreases towards the bottom of the core. The core top shows particularly strong drilling disturbance.



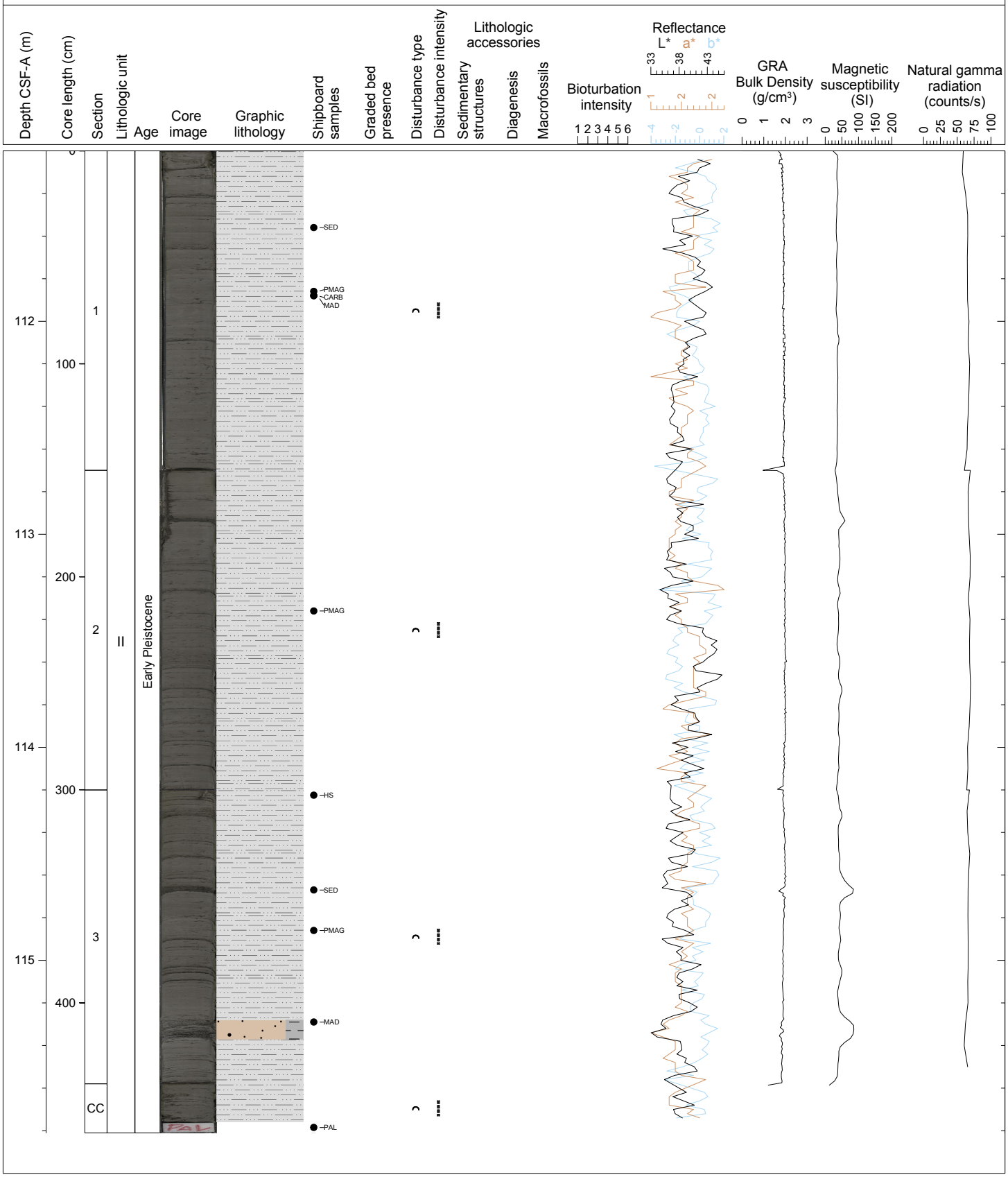
Hole 355-U1457A Core 12H, Interval 103.7-111.23 m (CSF-A)

SILTY CLAY, SANDY SILT. Light brownish gray SILTY CLAY, interbedded with thin-bedded SANDY SILT, is the major lithology. The thin-bedded SANDY SILT is interbedded with medium to thick bedded SILTY CLAY. The interbeds of SANDY SILT are very thin (<1 cm) and generally infrequent. SANDY SILT interbeds are up to 5 cm thick. Black diffuse pyrite patches are occasionally observed.



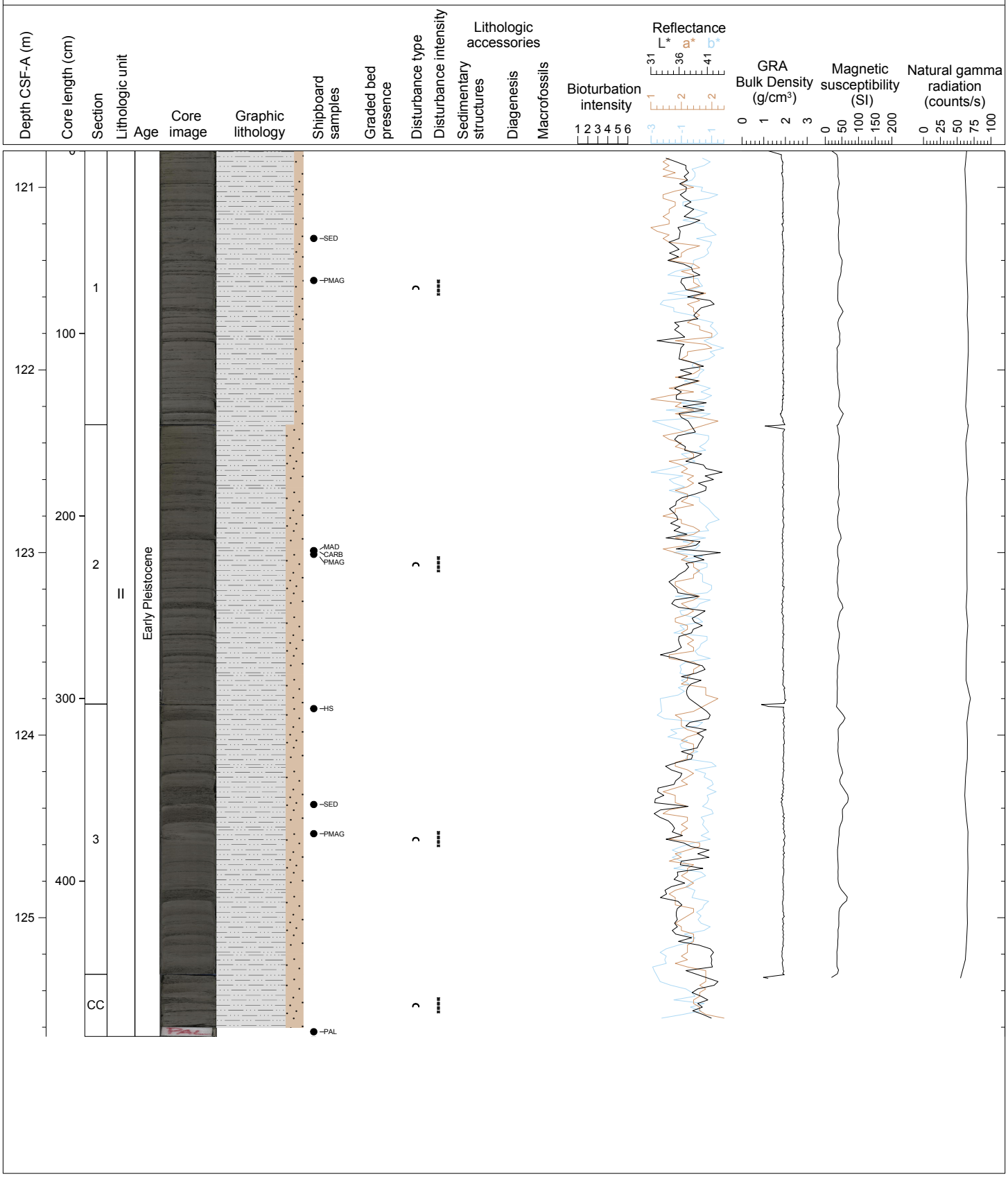
Hole 355-U1457A Core 13F, Interval 111.2-115.81 m (CSF-A)

SILTY CLAY, SANDY SILT. Light brownish gray, medium to thick-bedded SILTY CLAY, interbedded with thin-bedded SANDY SILT is the major lithology. SANDY SILT beds are typically very thin (<1 cm) but are occasionally up to 3 cm and dominate towards the bottom of the core. The SANDY SILT comprises less than 2% of the core.



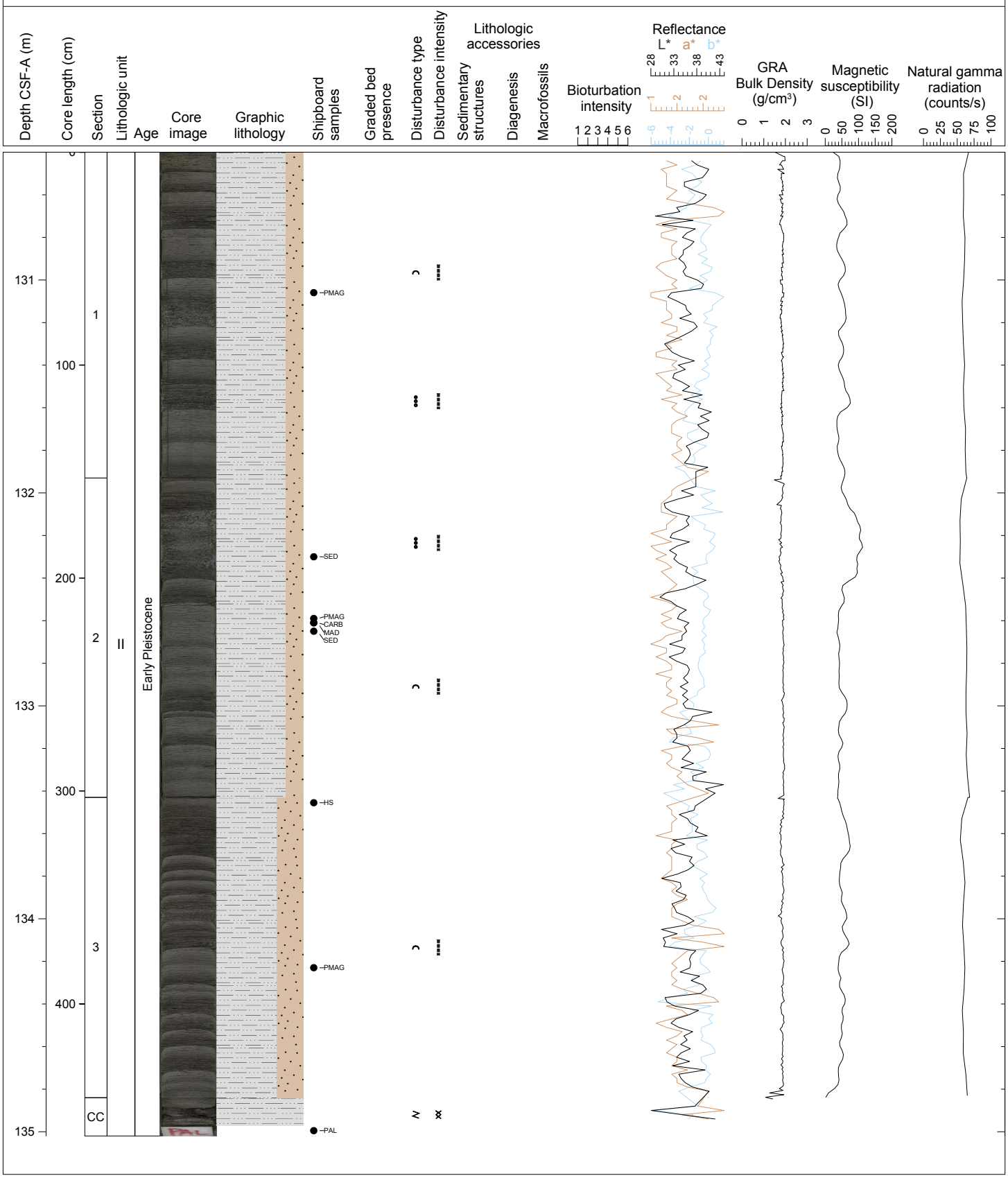
Hole 355-U1457A Core 15F, Interval 120.8-125.65 m (CSF-A)

SILTY CLAY, SANDY SILT. Light brownish gray,medium to thickly bedded SILTY CLAY interbedded with thin-bedded SANDY SILT the major lithology. The SANDY SILT is normally graded and has sharp basal boundaries. The SILTY CLAY is typically massive and structureless. SANDY SILT beds are very thin (<1 cm) and occasionally up to 5 cm and dominant towards the bottom of the core.



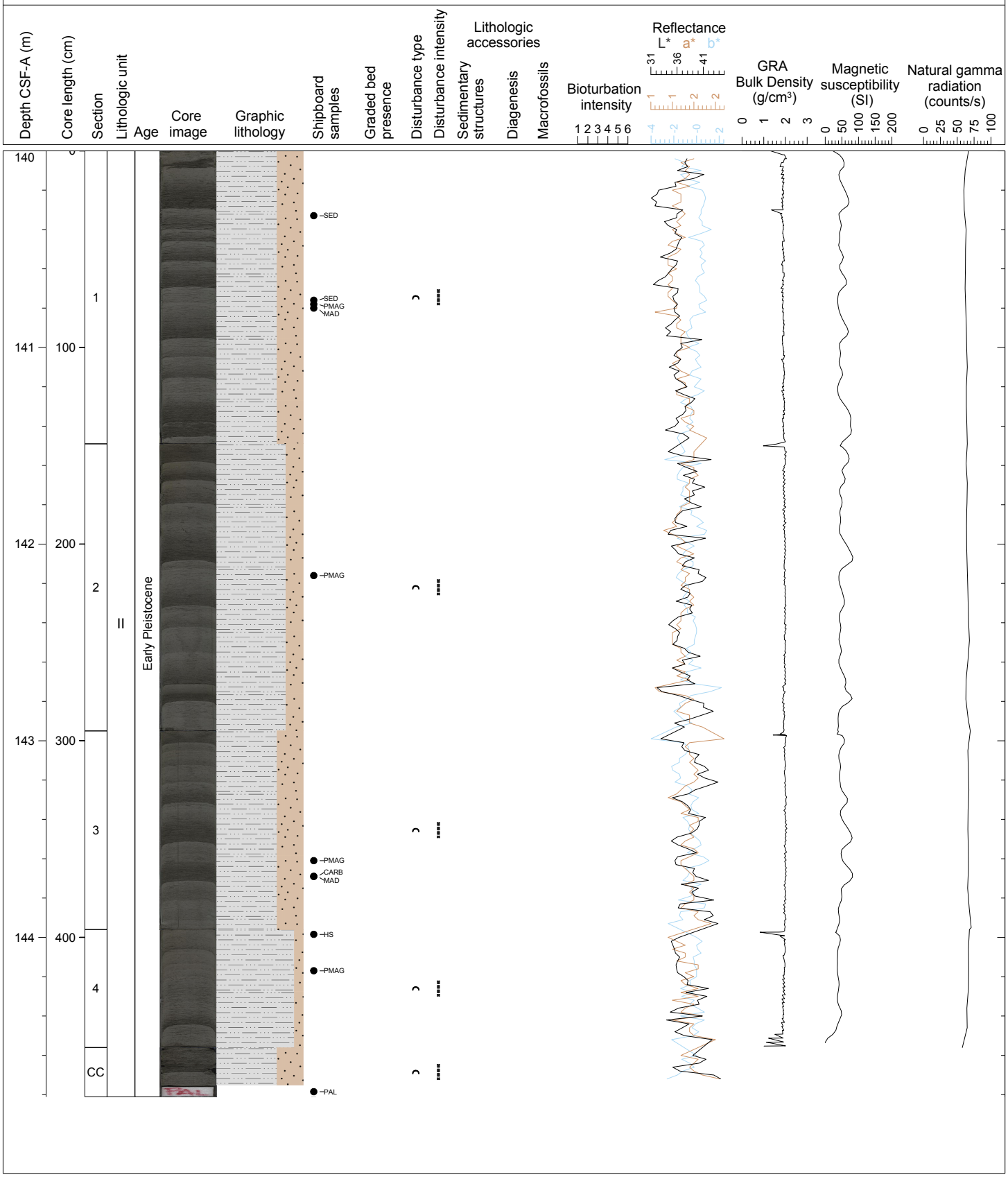
Hole 355-U1457A Core 17F, Interval 130.4-135.02 m (CSF-A)

SILTY CLAY, SANDY SILT. Light brownish gray SILTY CLAY and dark brownish gray SANDY SILT are the major lithologies. SILTY CLAY is typically overlain by thin-bedded SANDY SILT which is characterized by sharp, erosive bases and normal grading. SILTY CLAY beds are normally thicker than the SANDY SILT beds.



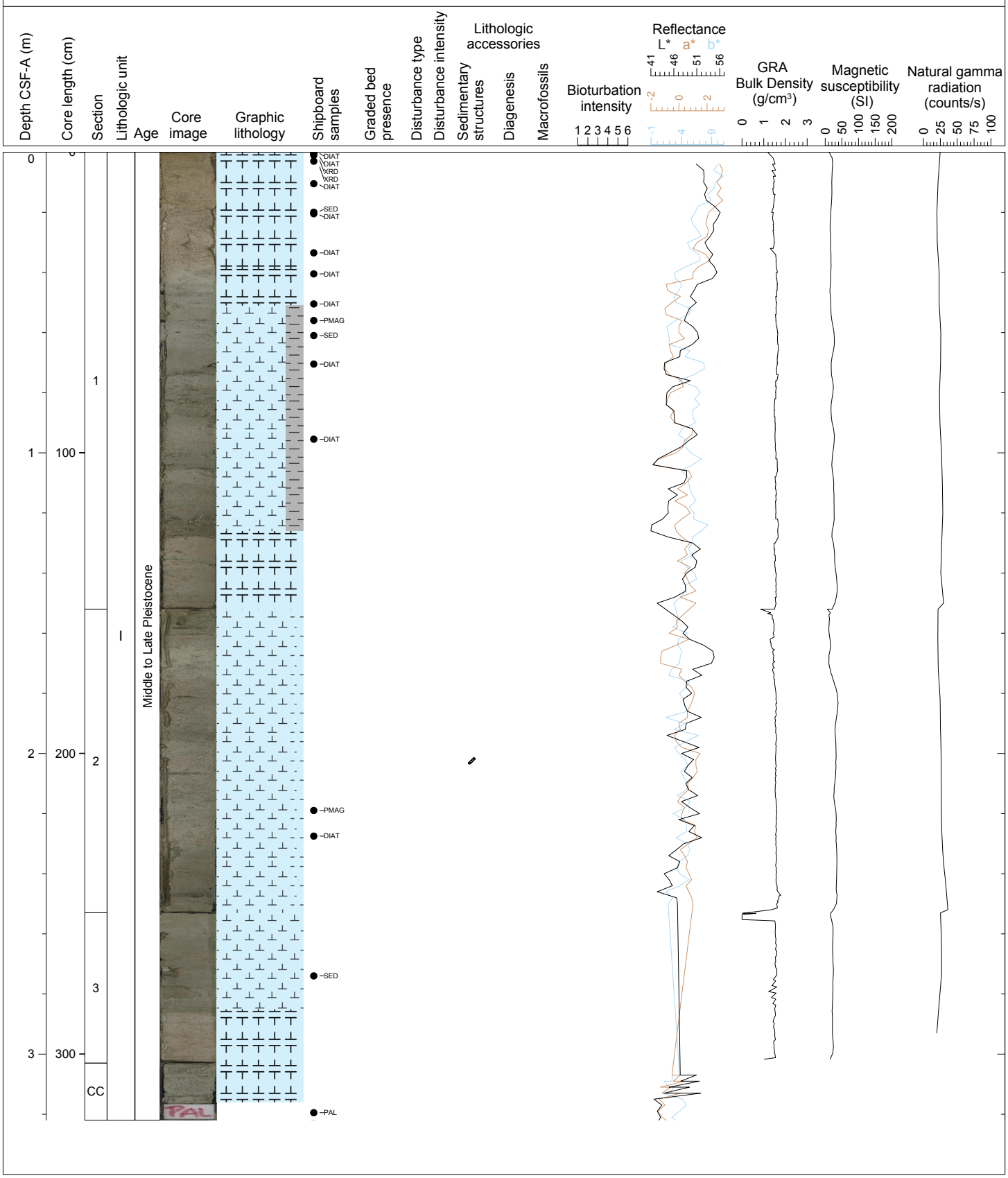
Hole 355-U1457A Core 19F, Interval 140.0-144.81 m (CSF-A)

SILTY CLAY, SANDY SILT. Light brownish gray SILTY CLAY and dark brownish gray SANDY SILT are the main lithologies. The very thin bedded SANDY SILT are interbedded with medium bedded SILTY CLAY. The SILTY CLAY and SANDY SILT beds are mostly homogeneous and massive with SANDY SILT graded beds found within the SILTY CLAY which it overlies with an erosive contact. SANDY SILT layers are occasionally observed and are up to 5 cm thick.



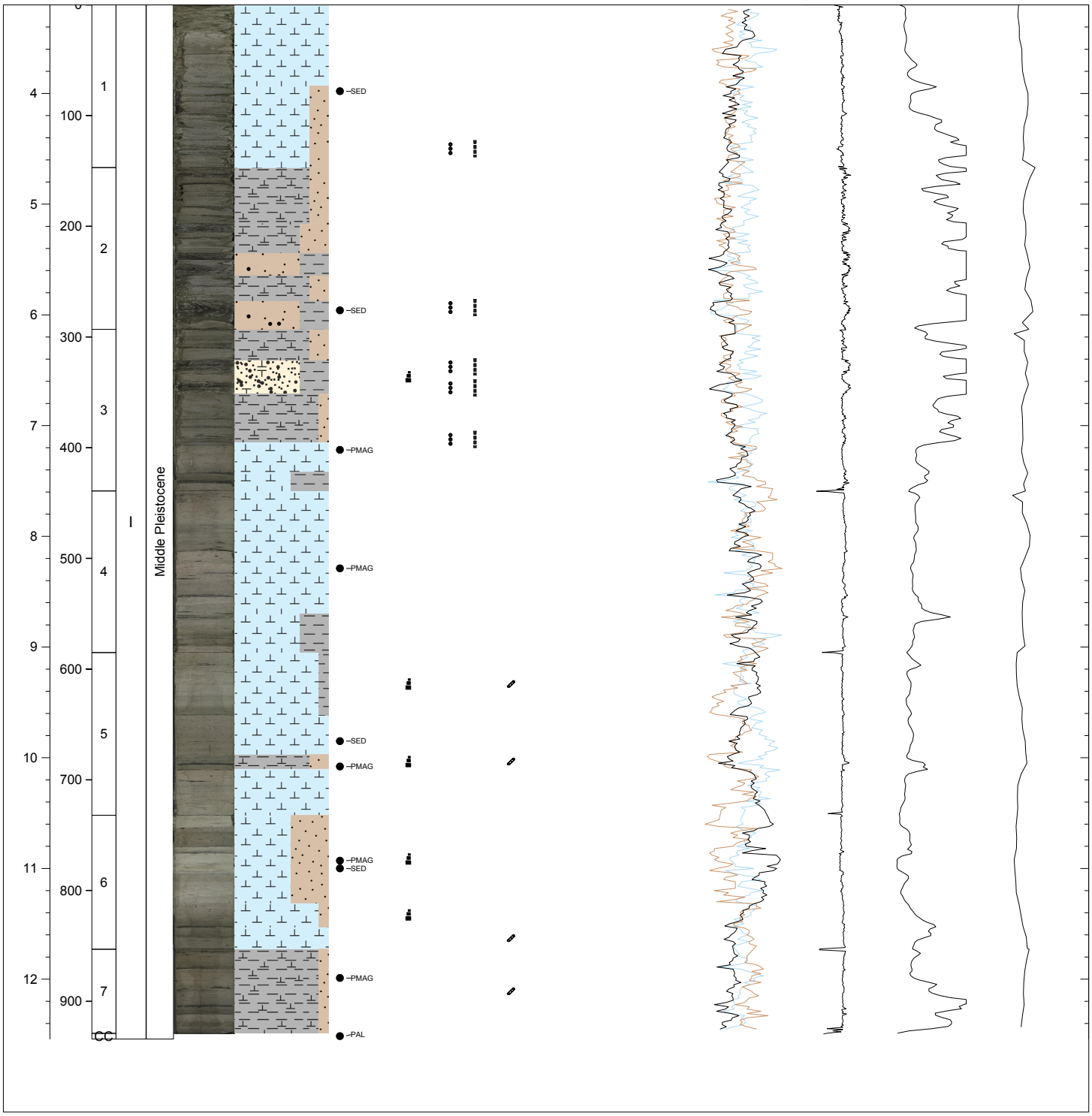
Hole 355-U1457B Core 1H, Interval 0.0-3.22 m (CSF-A)

NANNOFOSSIL OOZE, FORAMINIFER-RICH NANNOFOSSIL OOZE, NANNOFOSSIL-RICH CLAY. Light brown NANNOFOSSIL OOZE and light greenish FORAMINIFER-RICH NANNOFOSSIL OOZE are the dominant lithology. Greenish thin-bedded (<10cm) NANNOFOSSIL-RICH CLAY layers are interbedded within NANNOFOSSIL OOZE and FORAMINIFER-RICH NANNOFOSSIL OOZE. Burrowing is weakly developed.



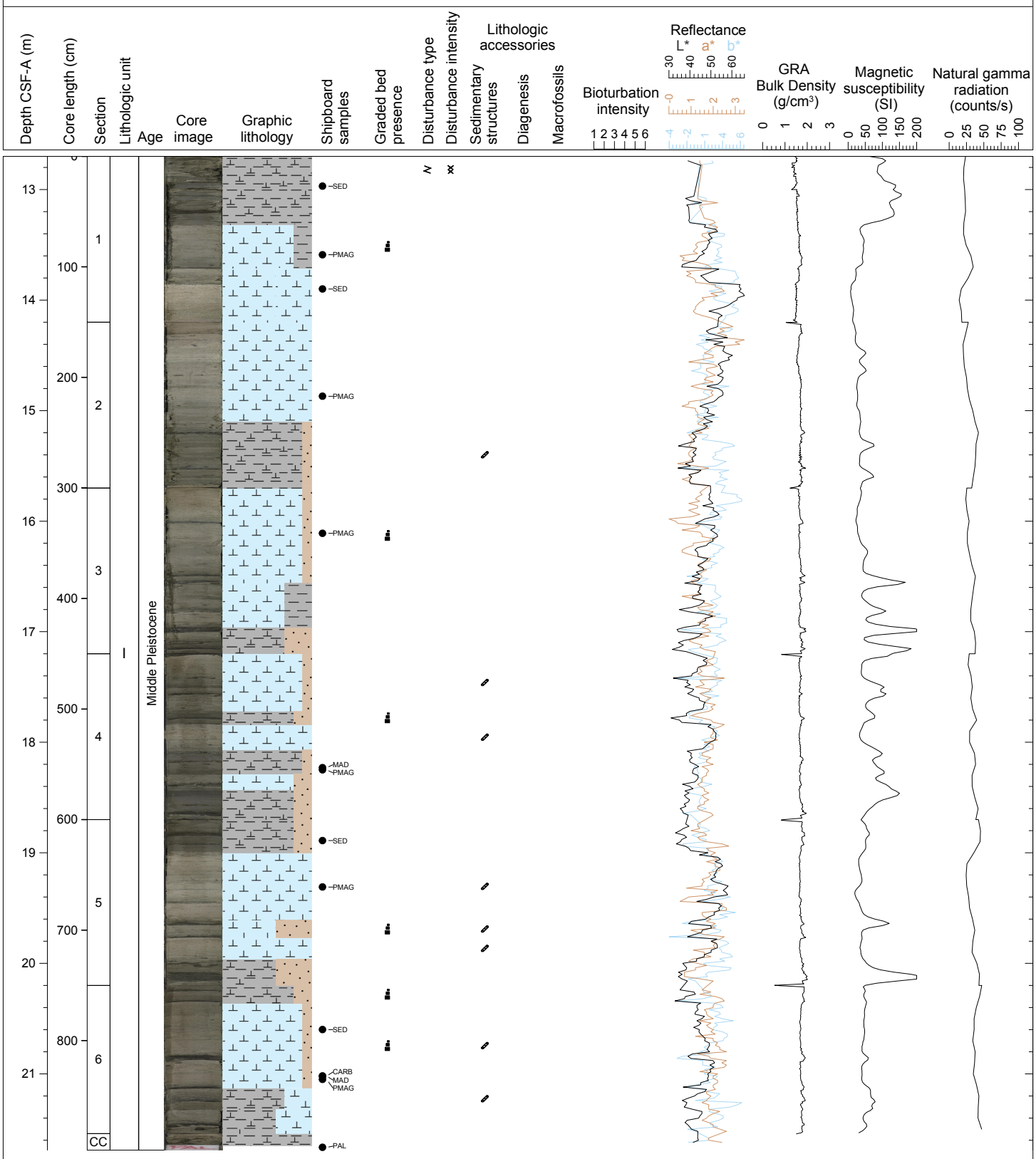
Hole 355-U1457B Core 2H, Interval 3.2-12.54 m (CSF-A)

NANNOFOSSIL OOZE, NANNOFOSSIL-RICH CLAY, SILTY SAND, SANDY SILT, CLAYEY SILT, CLAYEY SILT WITH NANNOFOSSILS. Light greenish gray NANNOFOSSIL OOZE and light green NANNOFOSSIL-RICH CLAY are the dominant lithologies. NANNOFOSSIL OOZE dominates the lower half of the core, whereas NANNOFOSSIL-RICH CLAY dominates the upper half. Dark gray SILTY SAND and SANDY SILT are interbedded with NANNOFOSSIL OOZE and NANNOFOSSIL-RICH CLAY. The top boundaries of NANNOFOSSIL OOZE and NANNOFOSSIL-RICH CLAY beds are normally erosive and scoured where they are overlain by coarser grained material which is normally graded. Burrowing is found mostly in NANNOFOSSIL OOZE layers.



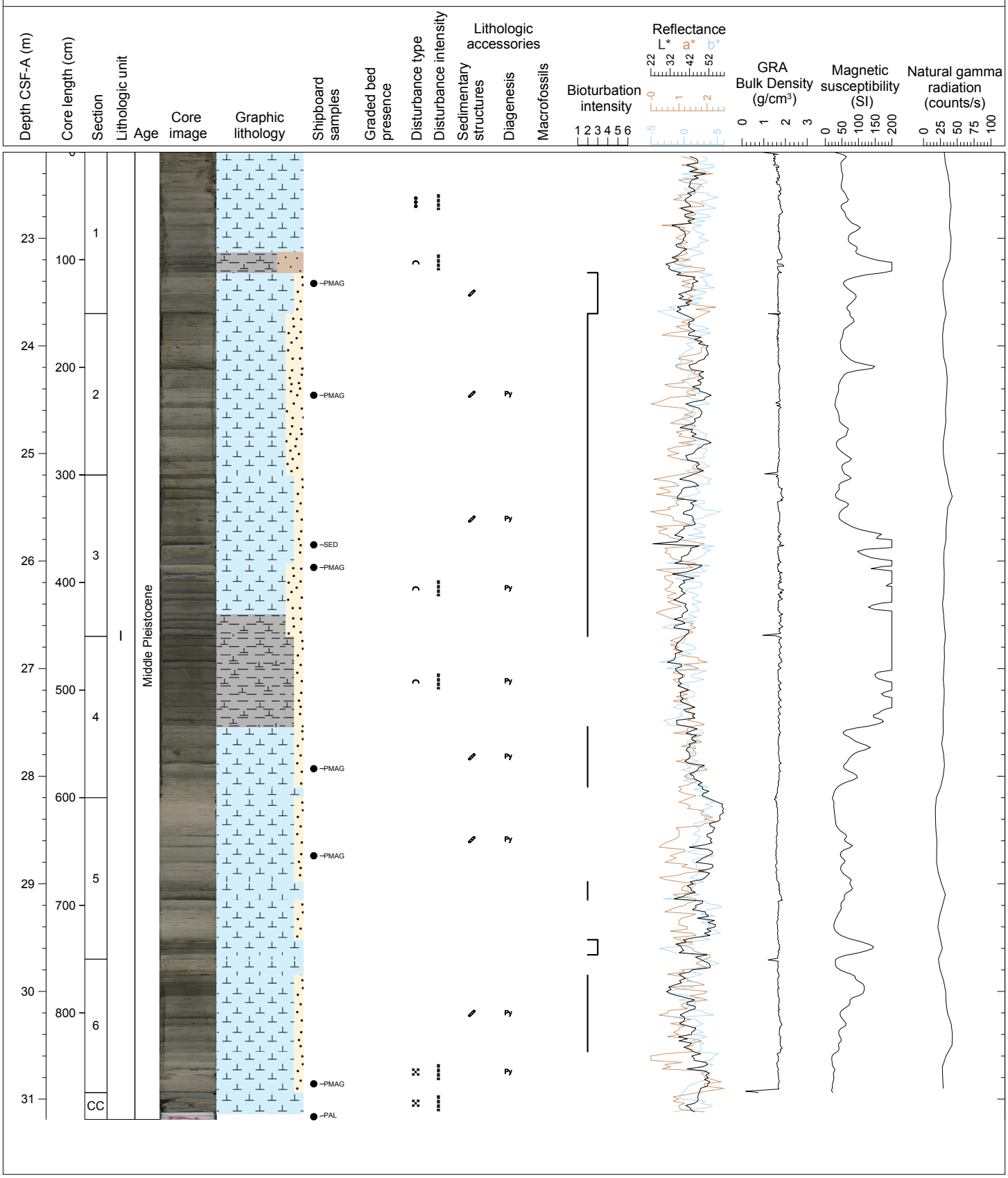
Hole 355-U1457B Core 3H, Interval 12.7-21.69 m (CSF-A)

NANNOFOSSIL OOZE, NANNOFOSSIL-RICH CLAY, SANDY SILT, SILTY SAND. Light gray NANNOFOSSIL OOZE and greenish gray NANNOFOSSIL-RICH CLAY are the major lithologies. Thin bedded (<10 cm) dark gray SANDY SILT or CLAYEY SILT is interbedded with NANNOFOSSIL OOZE or NANNOFOSSIL-RICH CLAY. Burrowing is widespread. The top boundary of NANNOFOSSIL OOZE or NANNOFOSSIL-RICH CLAY beds is sharply erosive or scoured where it is overlain by coarser grained sediments. Dark spots of pyrites are scattered in NANNOFOSSIL OOZE.



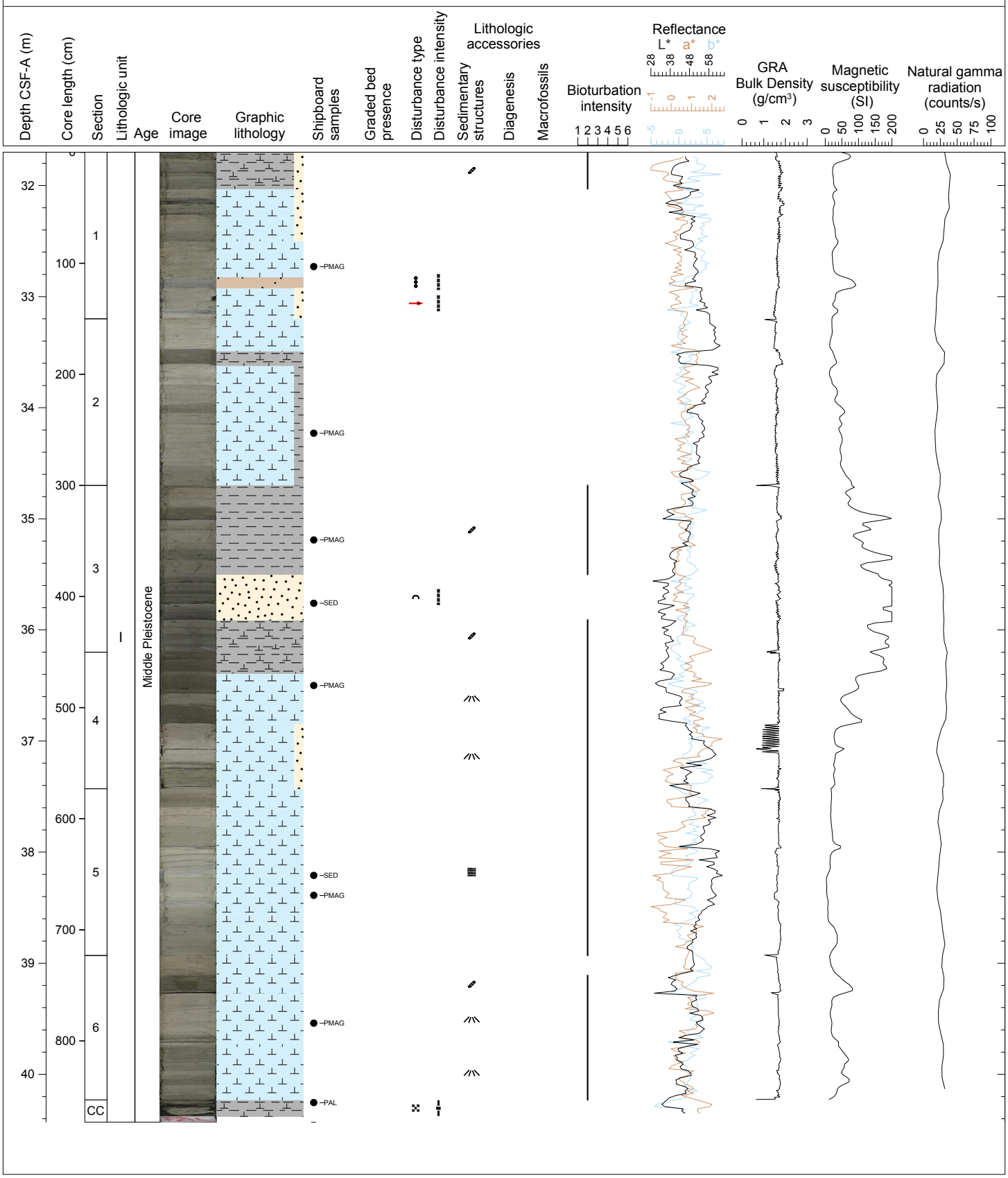
Hole 355-U1457B Core 4H, Interval 22.2-31.19 m (CSF-A)

NANNOFOSSIL OOZE, NANNOFOSSIL OOZE WITH CLAY, NANNOFOSSIL-RICH CLAY. Light brownish-light white NANNOFOSSIL OOZE, light greenish brown NANNOFOSSIL OOZE WITH CLAY and light to dark gray NANNOFOSSIL-RICH CLAY are the major lithologies. The thin SILTY SAND are interbedded throughout the core, but are most common in the NANNOFOSSIL-RICH CLAY. The NANNOFOSSIL OOZE and NANNOFOSSIL OOZE WITH CLAY intervals are medium to thickly bedded, while NANNOFOSSIL-RICH CLAY is thinly to medium bedded. The SILTY SAND contains mica grains. Black diffuse pyrites patches are common. The burrowing is common in greenish NANNOFOSSIL OOZE WITH CLAY and is dominated by Chondrites and composite burrows.



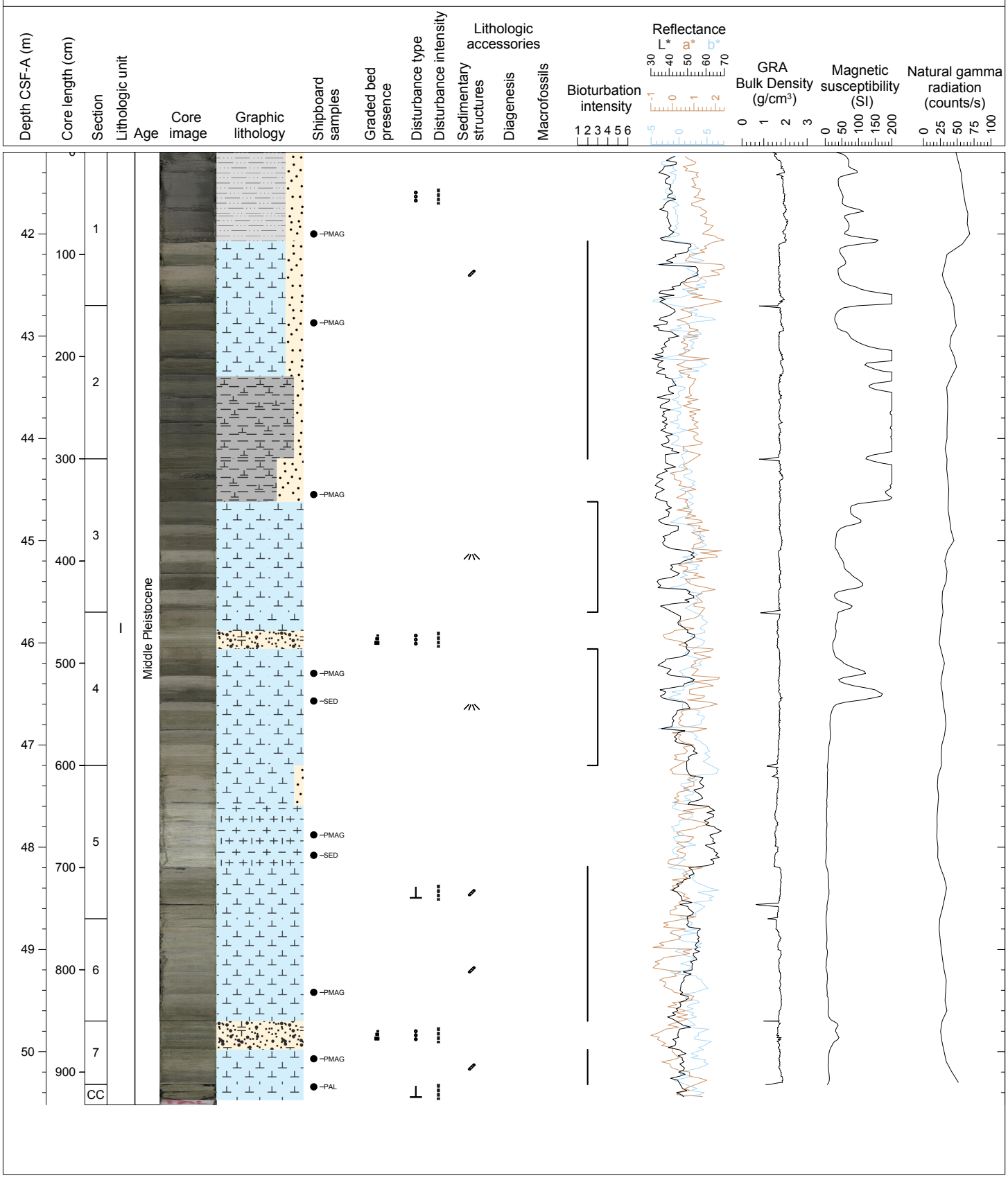
Hole 355-U1457B Core 5H, Interval 31.7-40.43 m (CSF-A)

NANNOFOSSIL OOZE, NANNOFOSSIL OOZE WITH CLAY, NANNOFOSSIL-RICH SILTY CLAY, SILTY SAND. Light brownish to light brownish white NANNOFOSSIL OOZE, light greenish NANNOFOSSIL OOZE WITH CLAY and gray NANNOFOSSIL-RICH SILTY CLAY are the dominant lithologies. Thin SILTY SAND is mostly interbedded with thin to medium bedded NANNOFOSSIL-RICH SILTY CLAY. Changes in color are mostly gradational and found within NANNOFOSSIL OOZE WITH CLAY. Bioturbation is often observed in light greenish to brownish NANNOFOSSIL OOZE WITH CLAY. Common burrows include Chondrites and composite burrows. Diffuse pyrite black patches are very common within brownish white NANNOFOSSIL OOZE beds.



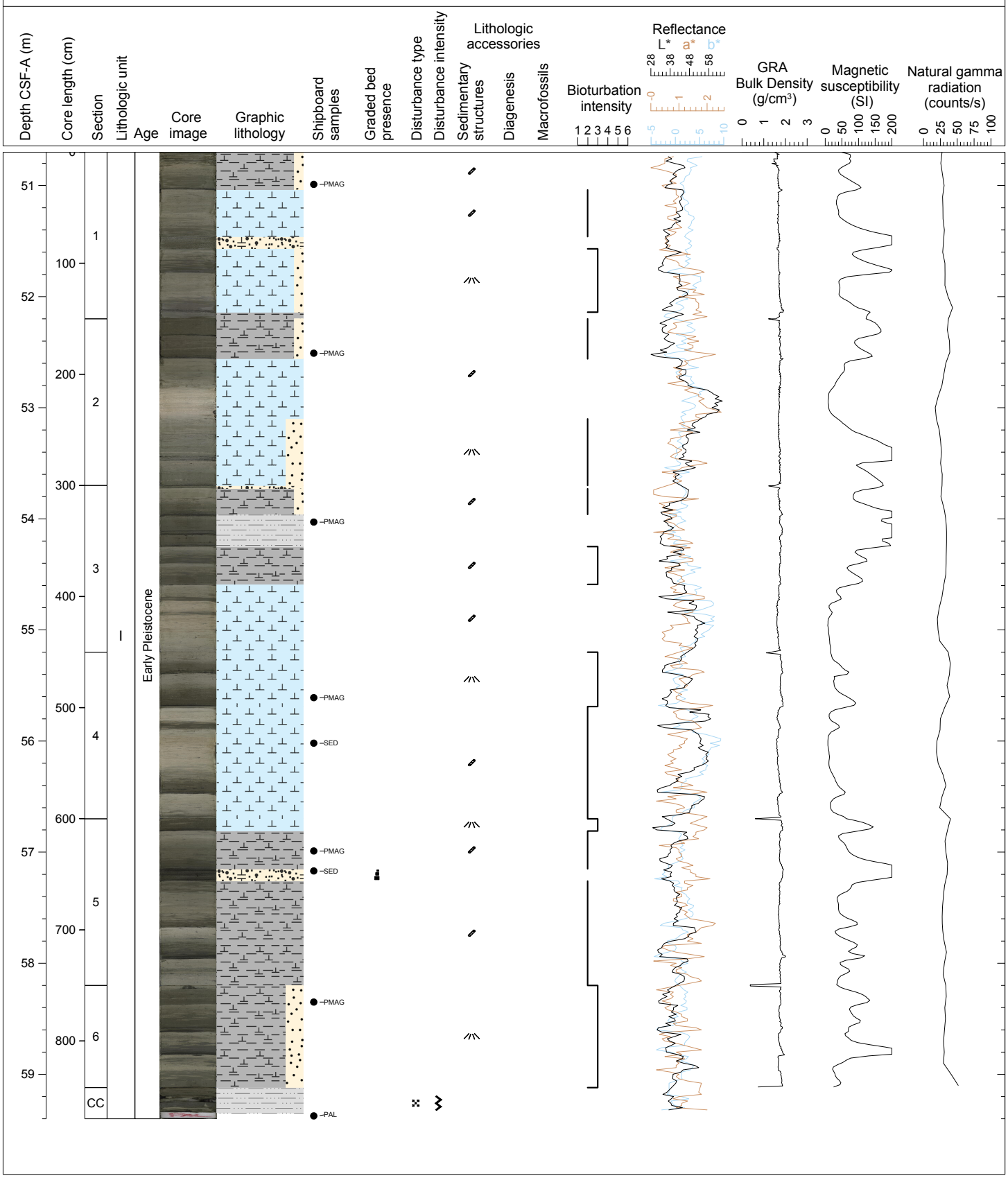
Hole 355-U1457B Core 6H, Interval 41.2-50.52 m (CSF-A)

NANNOFOSSIL OOZE, NANNOFOSSIL OOZE WITH CLAY, NANNOFOSSIL-RICH CLAY, CALCAREOUS OOZE, SILTY SAND. Gray colored SILTY CLAY and light brownish NANNOFOSSIL OOZE are interbedded with light greenish NANNOFOSSIL OOZE WITH CLAY and these are the dominant lithologies. Thin SILTY SAND beds are found interbedded within NANNOFOSSIL-RICH SILTY CLAY. The SILTY SAND bedding thickness increases towards the core bottom and is accompanied by a change in color from blackish to light white and greenish. The medium bedded NANNOFOSSIL OOZE and NANNOFOSSIL OOZE WITH CLAY are mostly found interbedded with one another. Medium bedded CALCAREOUS OOZE occur in Section 5. Bioturbation is mostly found in brownish to green NANNOFOSSIL OOZE WITH CLAY and is dominated by Chondrites and composite burrows. Diffuse black spots of pyrite are very common.



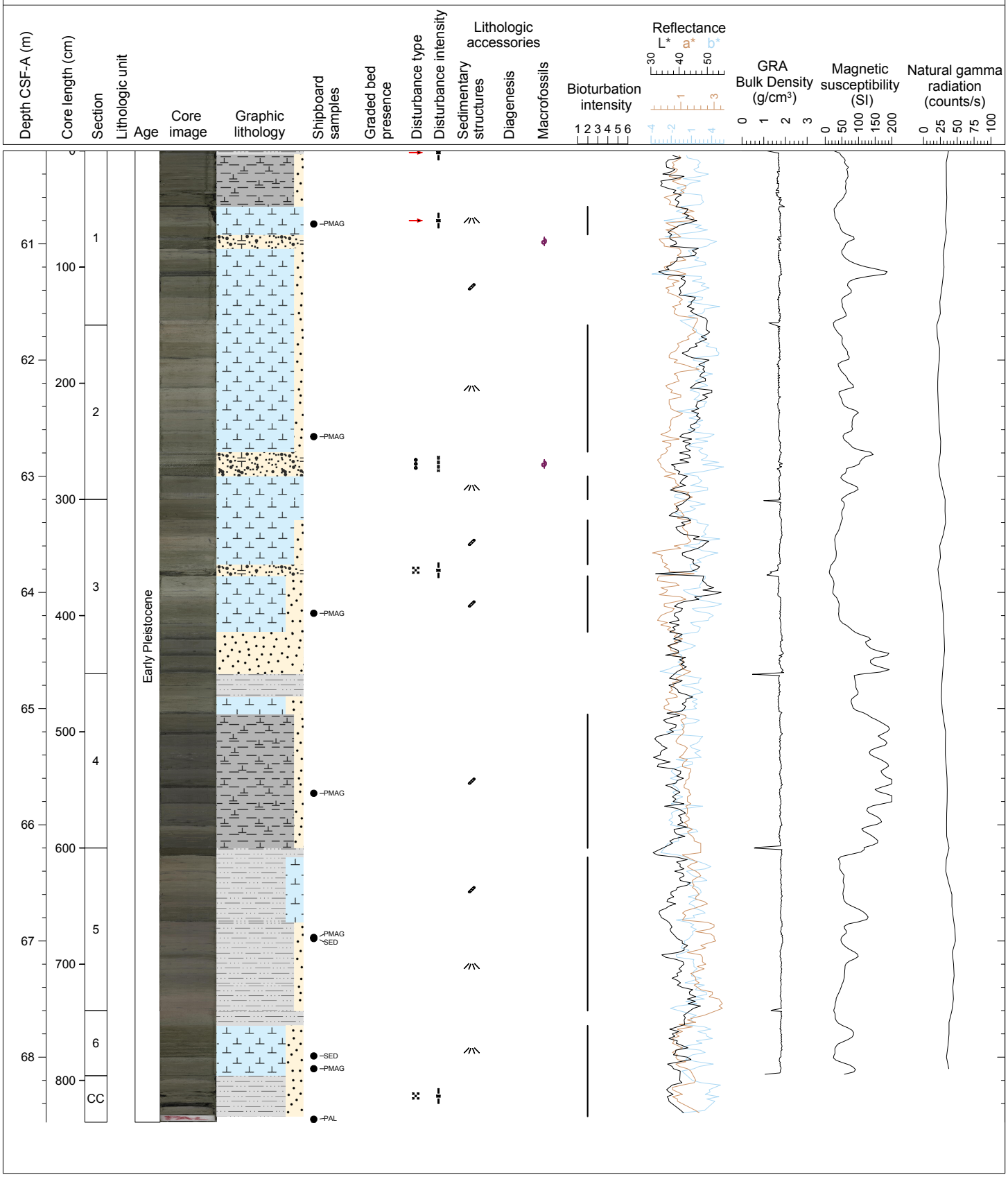
Hole 355-U1457B Core 7H, Interval 50.7-59.4 m (CSF-A)

NANNOFOSSIL OOZE, NANNOFOSSIL OOZE WITH CLAY, NANNOFOSSIL-RICH CLAY, SILTY CLAY, SILTY SAND. Light brownish to greenish white NANNOFOSSIL OOZE, greenish NANNOFOSSIL OOZE WITH CLAY and gray NANNOFOSSIL-RICH CLAY are the dominant lithologies. The NANNOFOSSIL OOZE is often found at the top of beds and grades down into light greenish NANNOFOSSIL OOZE WITH CLAY. The thin normally graded SILTY SAND layers often overlie NANNOFOSSIL-RICH CLAY and SILTY CLAY beds with an erosive contact. The SILTY SAND layer is occasionally up to 10 cm thick. Bioturbation is common within greenish-brownish NANNOFOSSIL OOZE WITH CLAY. Chondrites and composite burrows dominate the assemblage. Diffuse pyrite spots are very common within the brownish-light white NANNOFOSSIL OOZE.



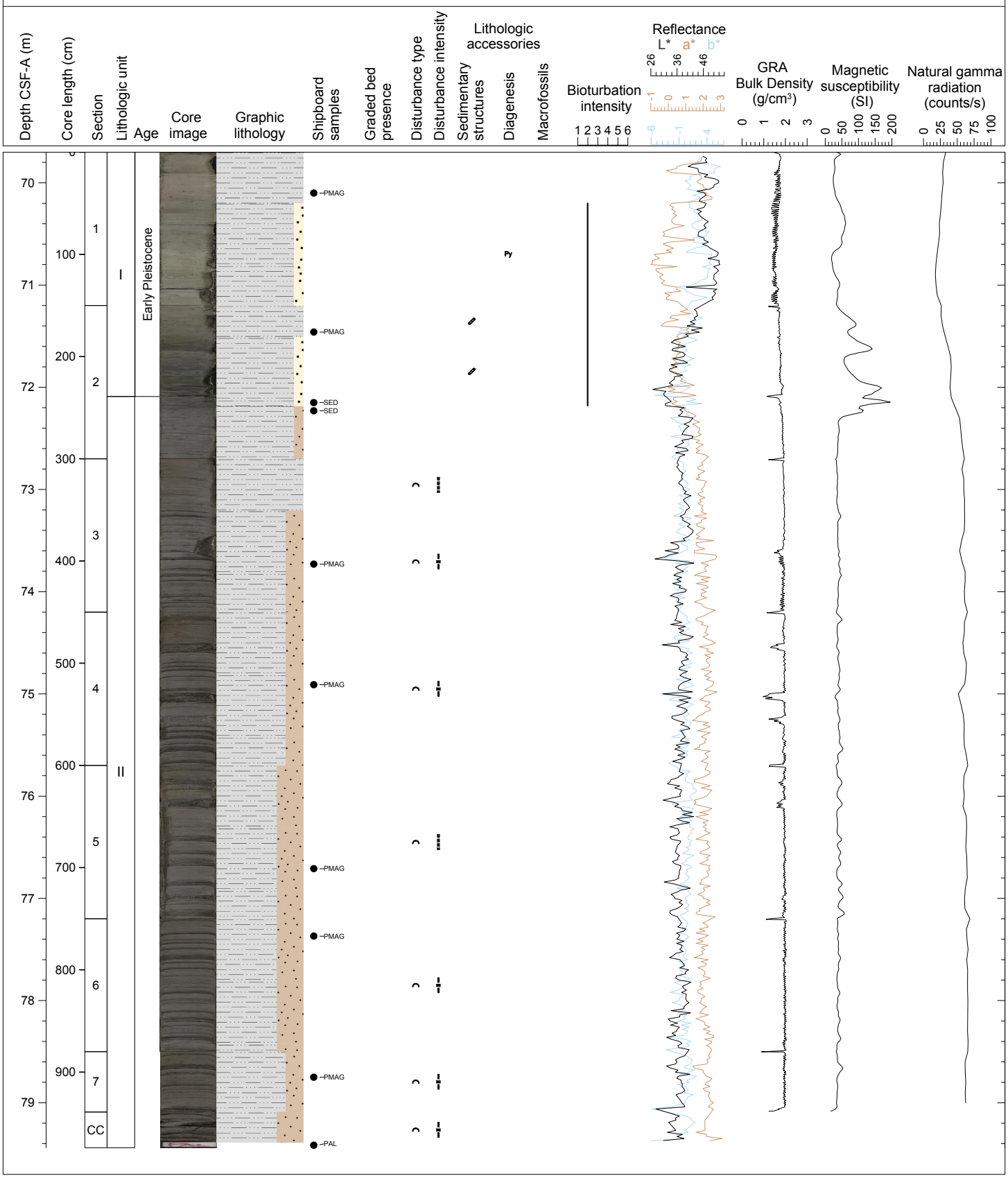
Hole 355-U1457B Core 8H, Interval 60.2-68.56 m (CSF-A)

NANNOFOSSIL OOZE WITH CLAY, NANNOFOSSIL OOZE, SILTY CLAY, SILTY CLAY WITH NANNOFOSSILS, NANNOFOSSIL-RICH SILTY CLAY, SILTY SAND. Light gray NANNOFOSSIL-RICH SILTY CLAY, light brownish SILTY CLAY and light brownish to light white NANNOFOSSIL OOZE are the dominant lithologies. NANNOFOSSIL OOZE and NANNOFOSSIL OOZE WITH CLAY are often interbedded and show gradational transitions between the two. Blackish SILTY SAND beds are found as occasional, thin interbeds within the finer lithologies. Medium bedded SILTY SAND layers with shell fragments are observed interbedded in NANNOFOSSIL OOZE in Sections 2 and 3. The greenish NANNOFOSSIL OOZE WITH CLAY is mostly bioturbated with common Chondrites and composite burrows. Light brownish SILTY CLAY is rich in hematite and occurs within and below Section 5 .



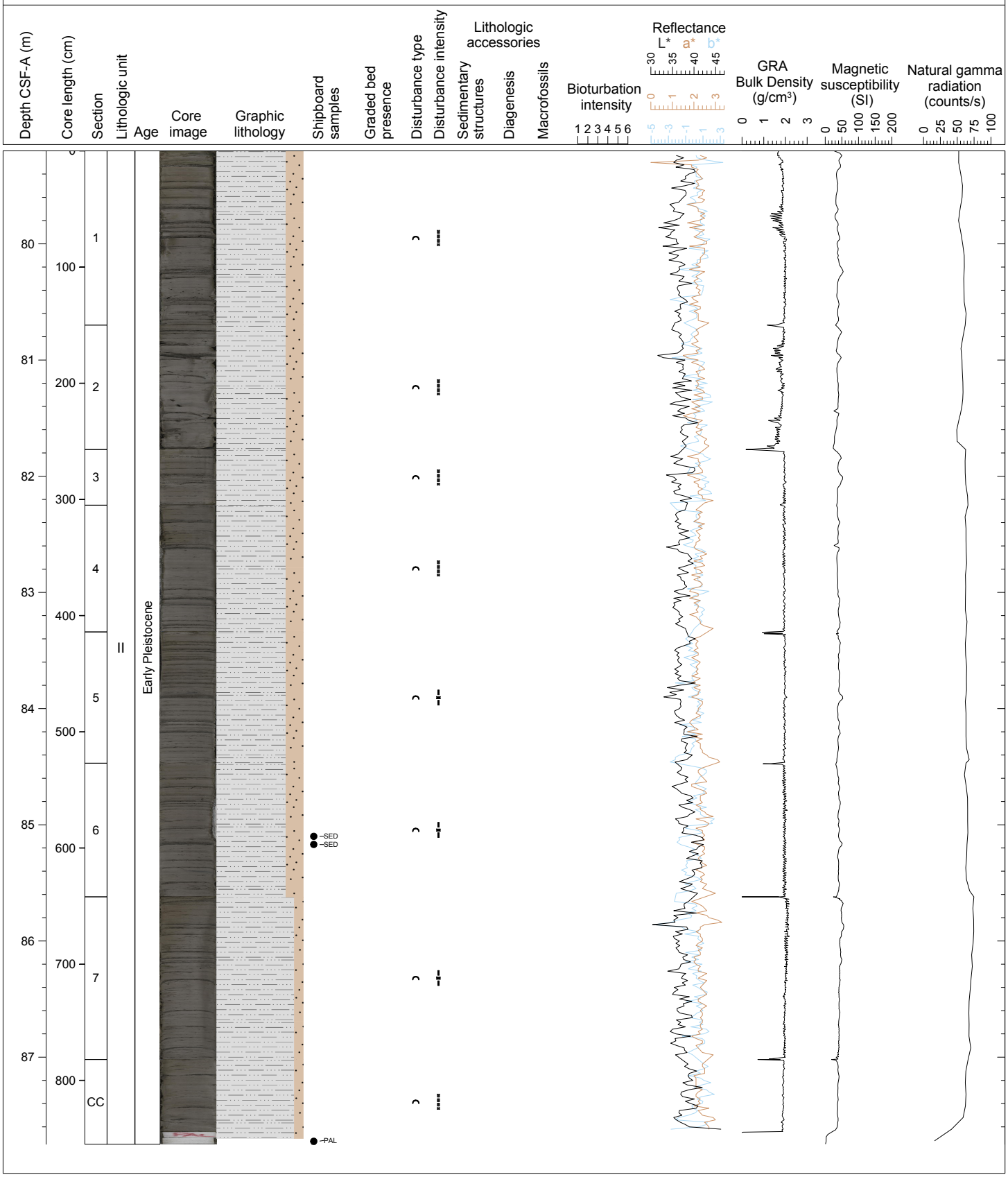
Hole 355-U1457B Core 9H, Interval 69.7-79.44 m (CSF-A)

SILTY CLAY, SILTY CLAY WITH NANNOFOSSILS, SANDY SILT. Light brownish gray SILTY CLAY and light brownish to light white SILTY CLAY WITH NANNOFOSSILS are the major lithologies. Thin layers of SANDY SILT are interbedded with comparatively thick (>5 cm) SILTY CLAY beds. The SILTY CLAY is occasionally thick-bedded and found in layers up to 20 cm thick. Black pyrite patches are common. The SILTY CLAY and SANDY SILT interbeds comprise as much as 80% of the core.



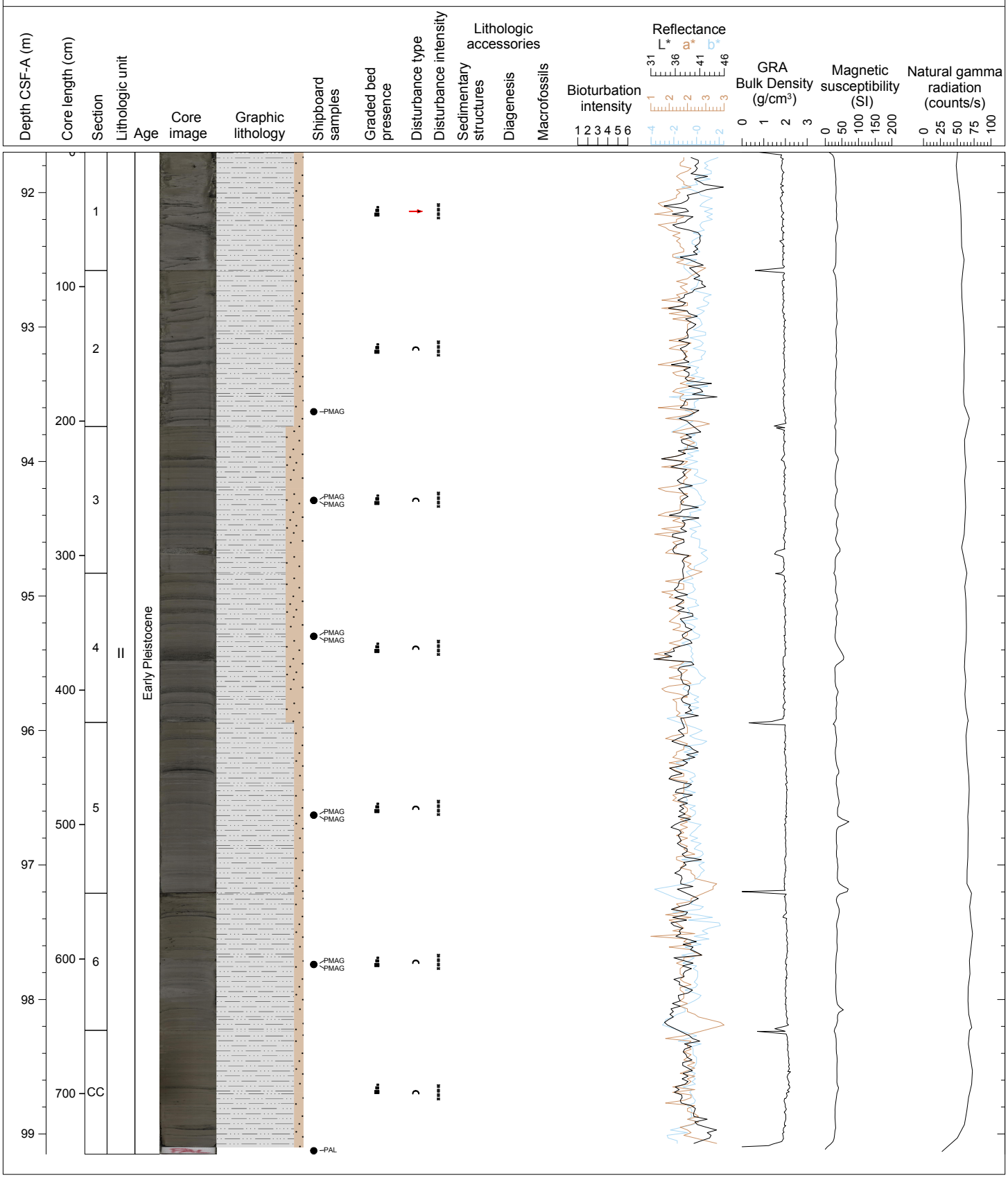
Hole 355-U1457B Core 10H, Interval 79.2-87.75 m (CSF-A)

SILTY CLAY, SANDY SILT. Light brownish gray SILTY CLAY interbedded with thin-bedded SANDY SILT is the major lithology. Greenish gray clay chunks are observed in the top 10 cm of the core and are the result of drilling disturbance. The thin bedded, normally graded SANDY SILT is interbedded with medium to thick bedded SILTY CLAY. SANDY SILT is very thin bedded (<1 cm) compared to the SILTY CLAY beds (< 5 cm). SANDY SILT interbedding decreases towards the bottom of the core. SILTY CLAY layers are up to 30 cm thick. Normally graded bedding is shown as SILTY CLAY overlying SANDY SILT which has an erosive basal boundary. Black diffuse pyrite patches are occasionally observed.



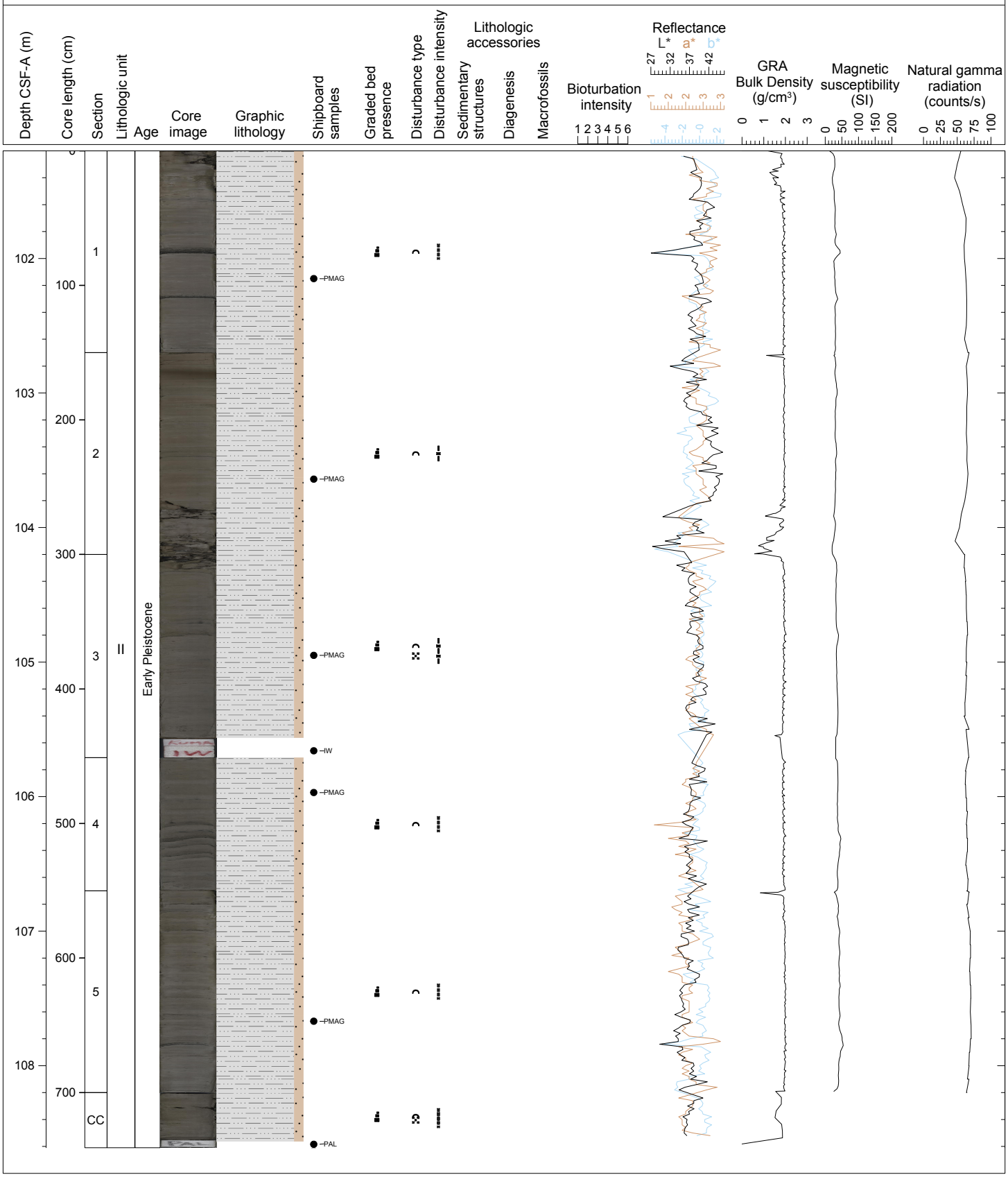
Hole 355-U1457B Core 12H, Interval 91.7-99.15 m (CSF-A)

SILTY CLAY, SANDY SILT. Light brownish gray, medium to thick bedded SILTY CLAY interbedded with thin beds of SANDY SILT is the major lithology. The SANDY SILT beds are very thin (<1 cm) but occasionally up to 5 cm thick. The SILTY CLAY and SANDY SILT show graded bedding with SILTY CLAY at the top and SANDY SILT on the bottom. Black diffuse pyrite patches are occasionally observed.



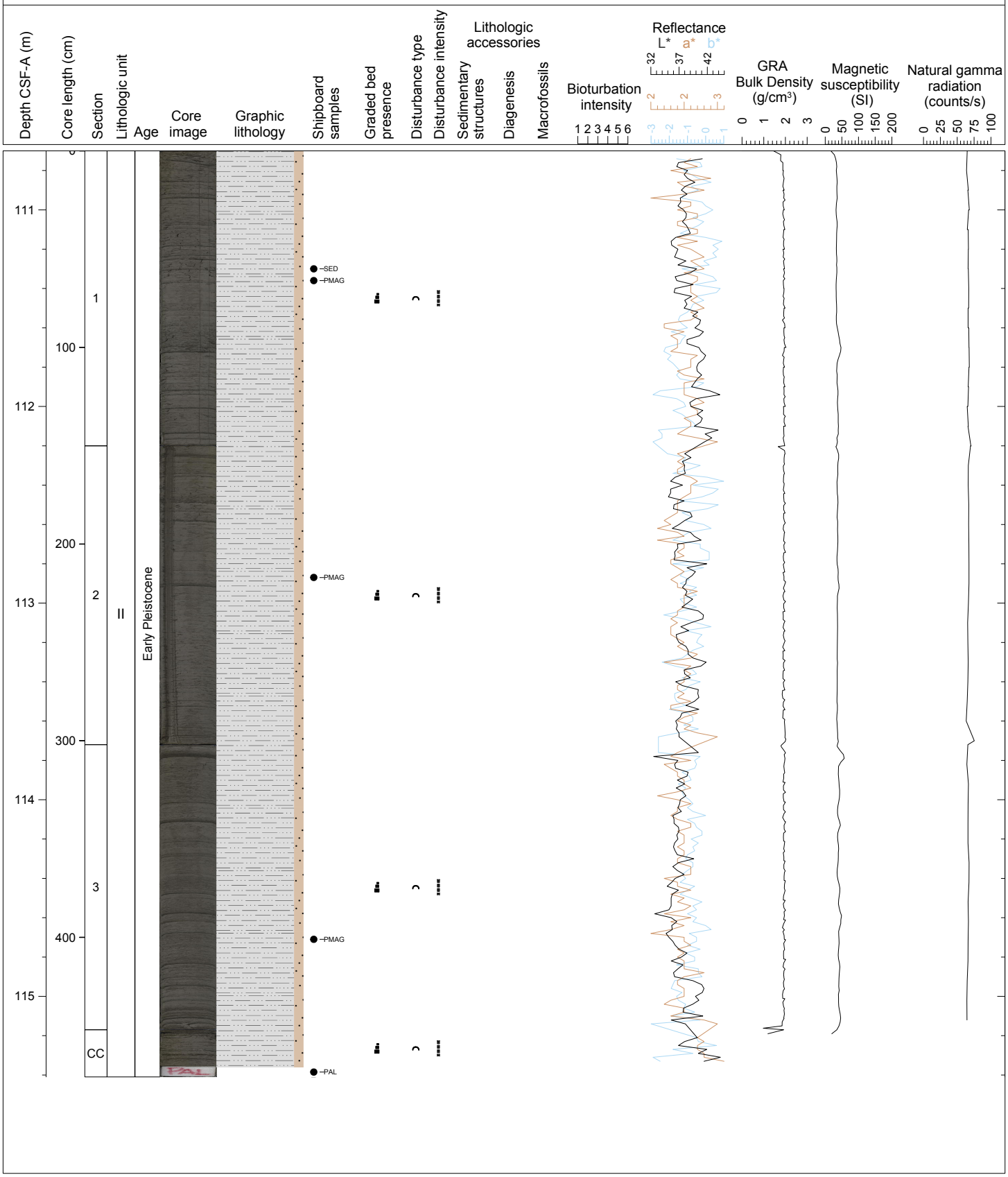
Hole 355-U1457B Core 13H, Interval 101.2-108.61 m (CSF-A)

SILTY CLAY, SANDY SILT. Light brownish gray, medium to thickly bedded SILTY CLAY is the major lithology. Very thin to thin bedded SANDY SILT is typically found overlying SILTY CLAY intervals with sharp, erosive bases. The SANDY SILT interbeds are occasionally up to 5 cm thick, but comprise less than 10% of the core. The core is disturbed and shows void-type drilling induced disturbances. Black pyrite patches are often observed.



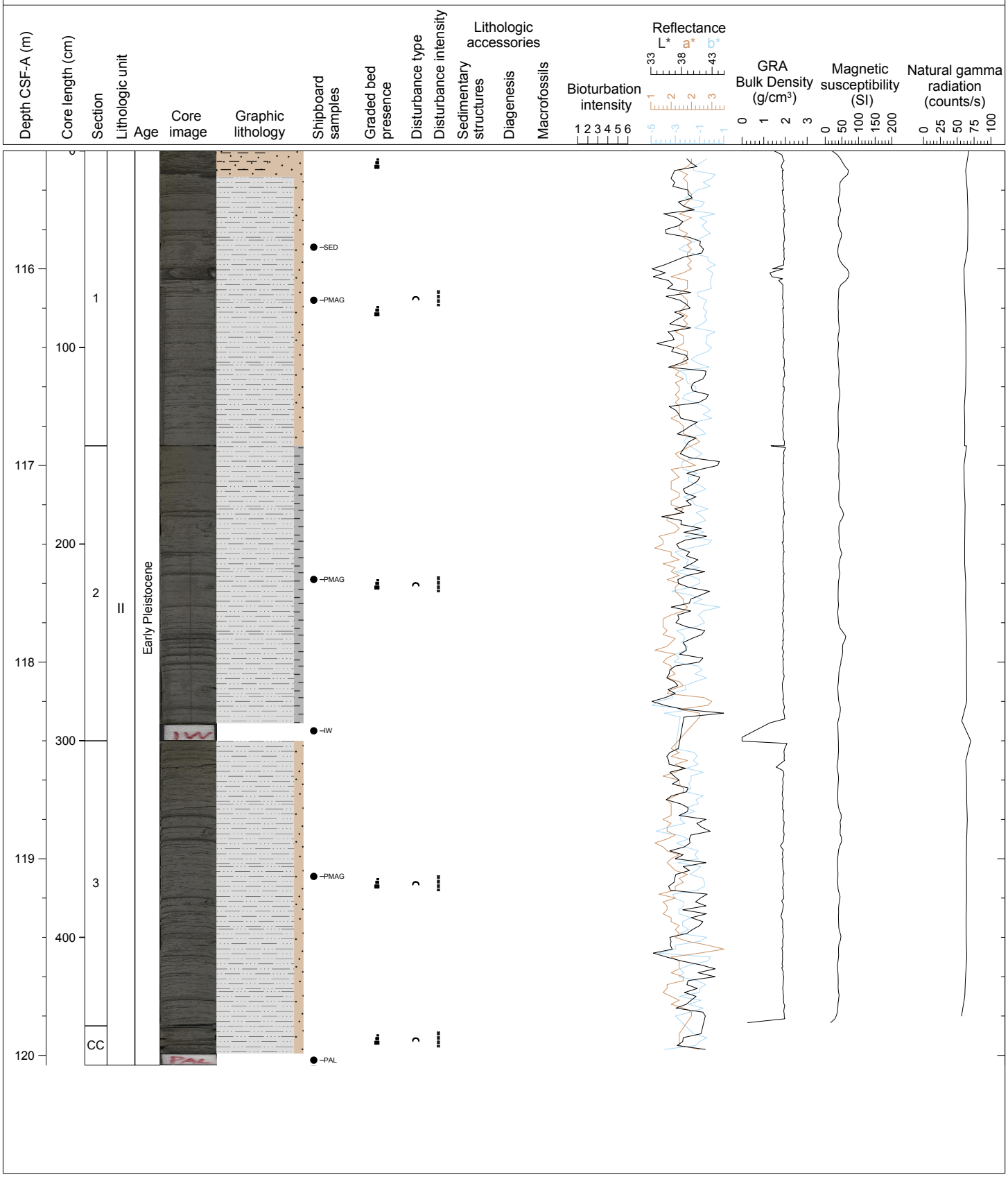
Hole 355-U1457B Core 14F, Interval 110.7-115.41 m (CSF-A)

SILTY CLAY, SANDY SILT. Light brownish gray SILTY CLAY is the major lithology, and is interbedded with very thin gray SANDY SILT. The top of the SILTY CLAY layers is normally erosive and sharp, with the overlying SANDY SILT being normally graded.



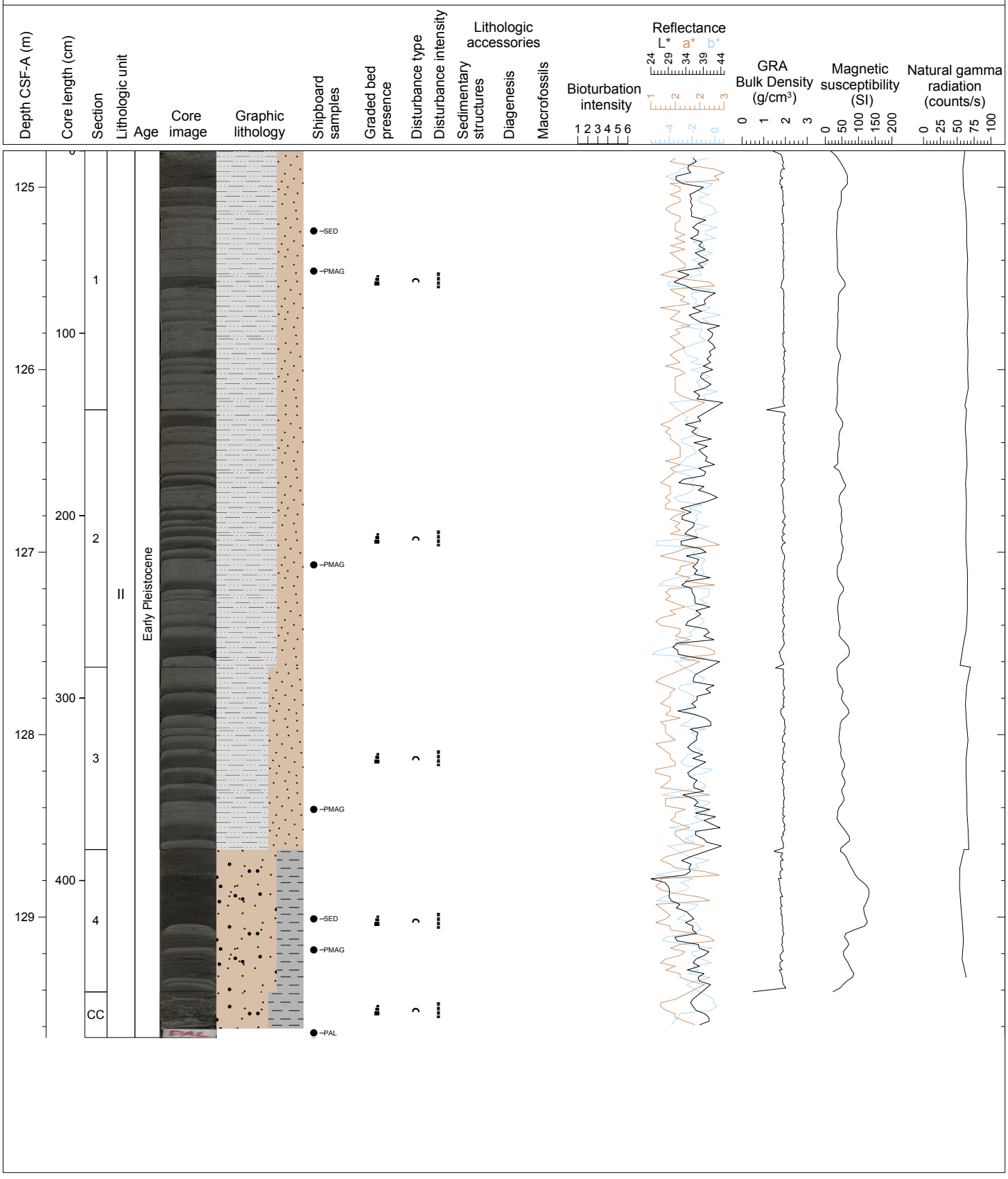
Hole 355-U1457B Core 15F, Interval 115.4-120.05 m (CSF-A)

SILTY CLAY, SANDY SILT, CLAYEY SILT. Light brownish gray SILTY CLAY is the main lithology and is interbedded with thin-bedded SANDY SILT, which forms a set of beds at the top of the core. The top of SILTY CLAY shows an erosive boundary where it is overlain by coarser sediment.



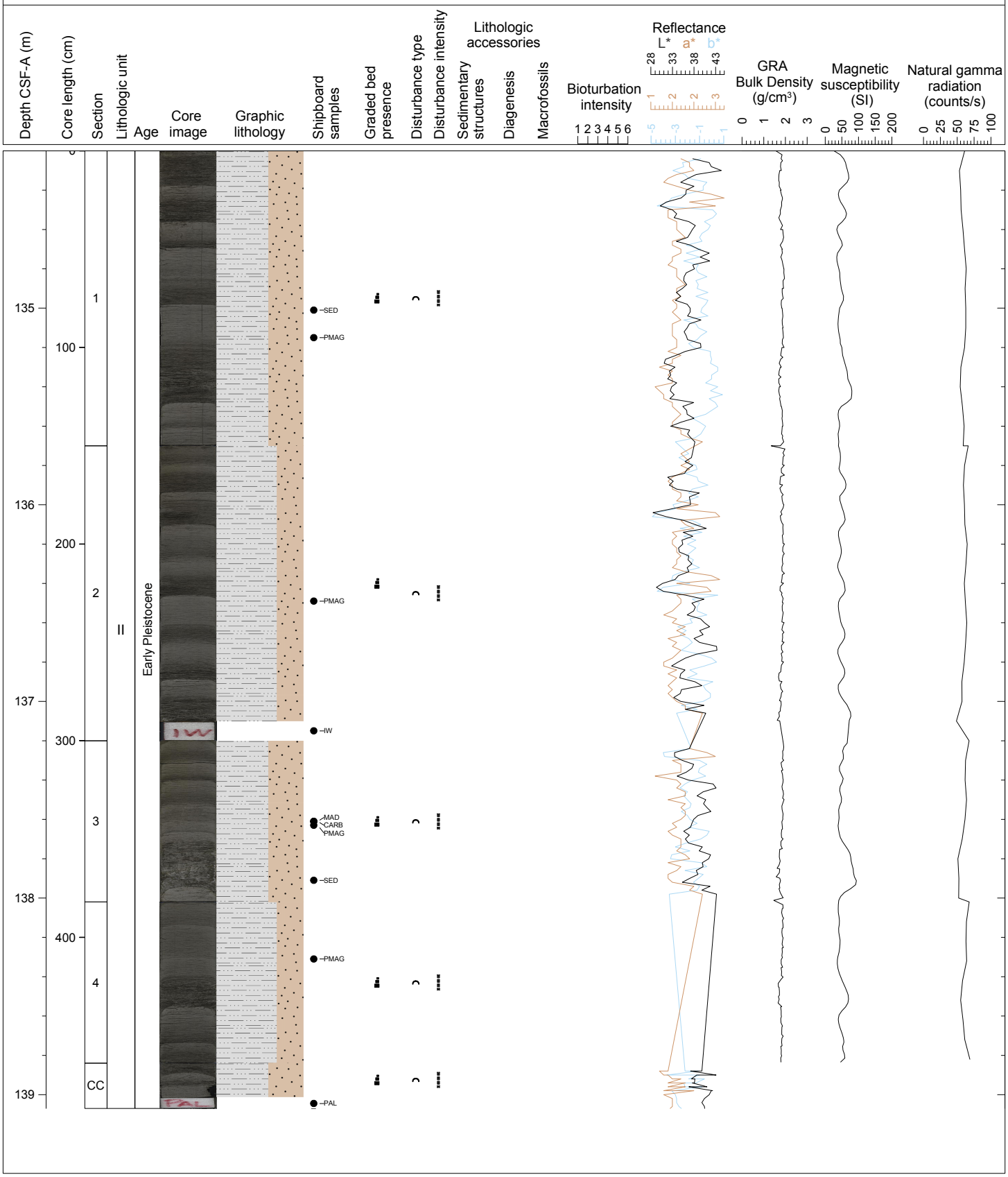
Hole 355-U1457B Core 17F, Interval 124.8-129.66 m (CSF-A)

SILTY CLAY, SANDY SILT. Light brownish SILTY CLAY and dark gray SANDY SILT are dominant lithologies. In general, these two lithologies are coupled, SILTY CLAY at the top and SADY SILT at the bottom. Top boundary is usually erosive. Thickness is normally larger in the top layer, but sometimes the lower layer is thicker. Slight uparching is found.



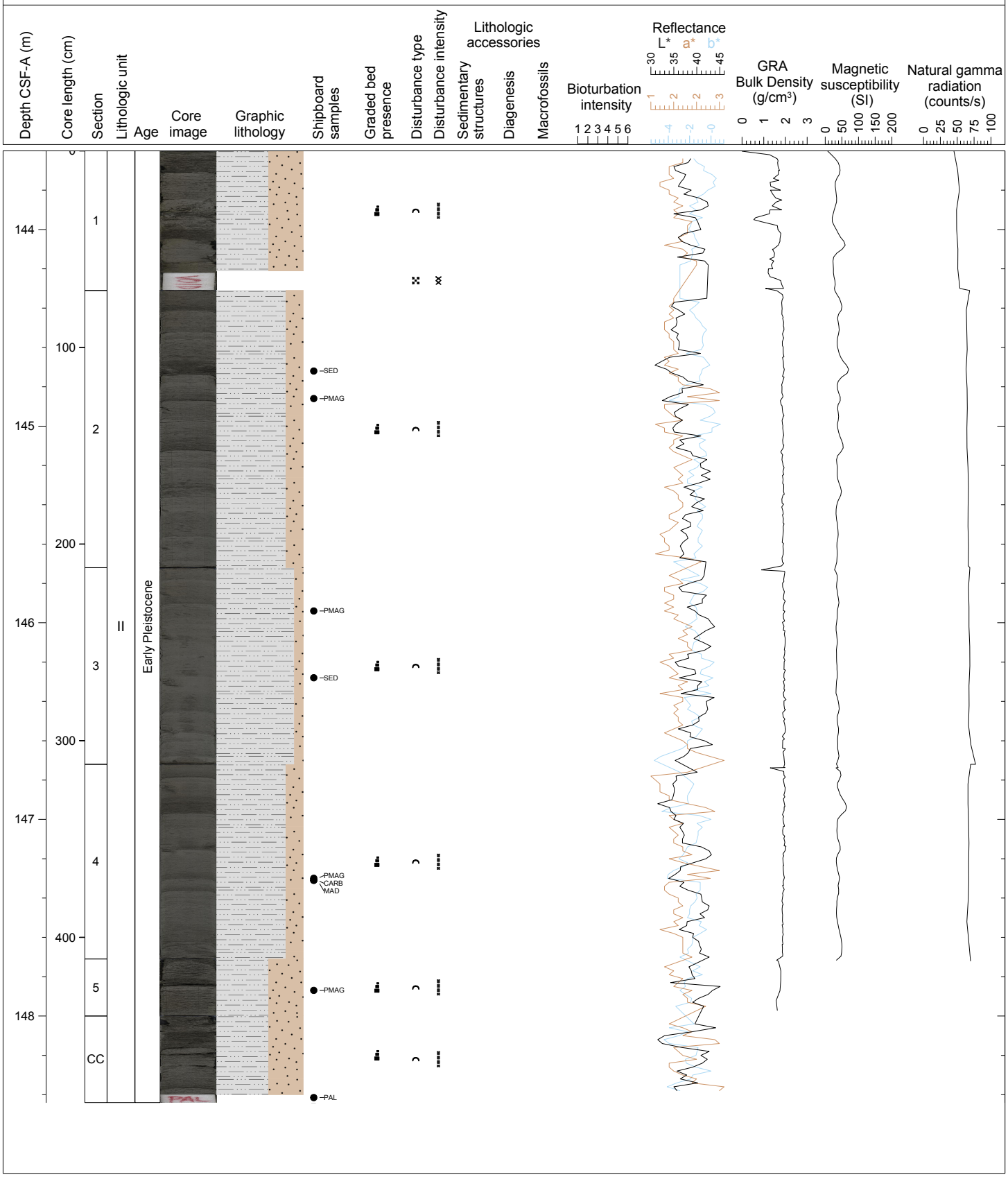
Hole 355-U1457B Core 19F, Interval 134.2-139.07 m (CSF-A)

SILTY CLAY, SANDY SILT. Light brownish SILTY CLAY and dark gray SANDY SILT are the main lithologies. The SANDY SILT sits on an erosive basal contact and graded up into SILTY CLAY. The cycle is repeated multiple times over the length of the core over a scale of <10 cm.



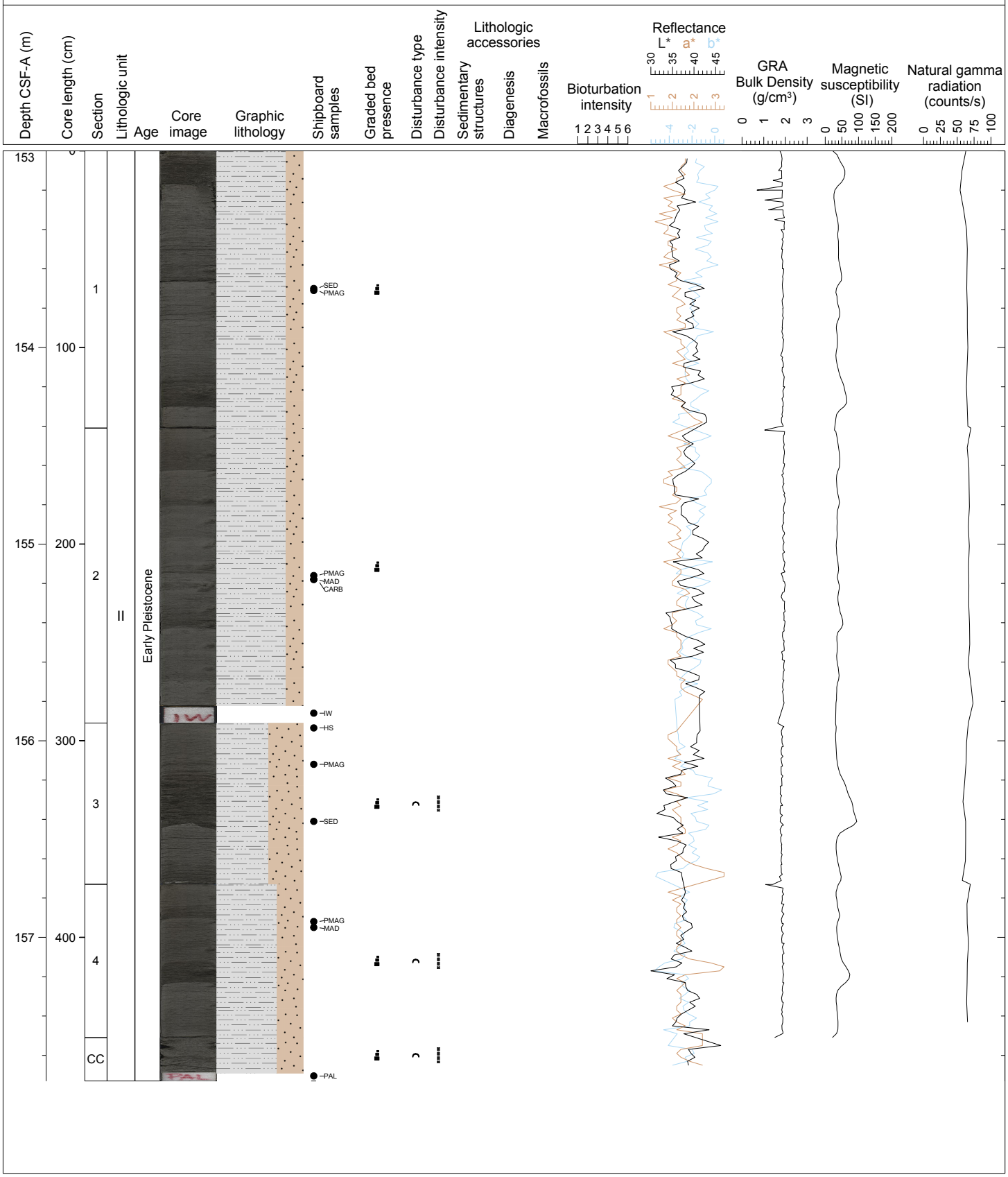
Hole 355-U1457B Core 21F, Interval 143.6-148.44 m (CSF-A)

SILTY CLAY, SANDY SILT. Light brownish SILTY CLAY and dark gray SANDY SILTY are the dominant lithologies with the SILTY CLAY being the greater. The sediments form multiple cycles of normal grading with the coarser sediment sitting on an erosive base. Cycles are a few cm thick, and generally <20 cm thick.



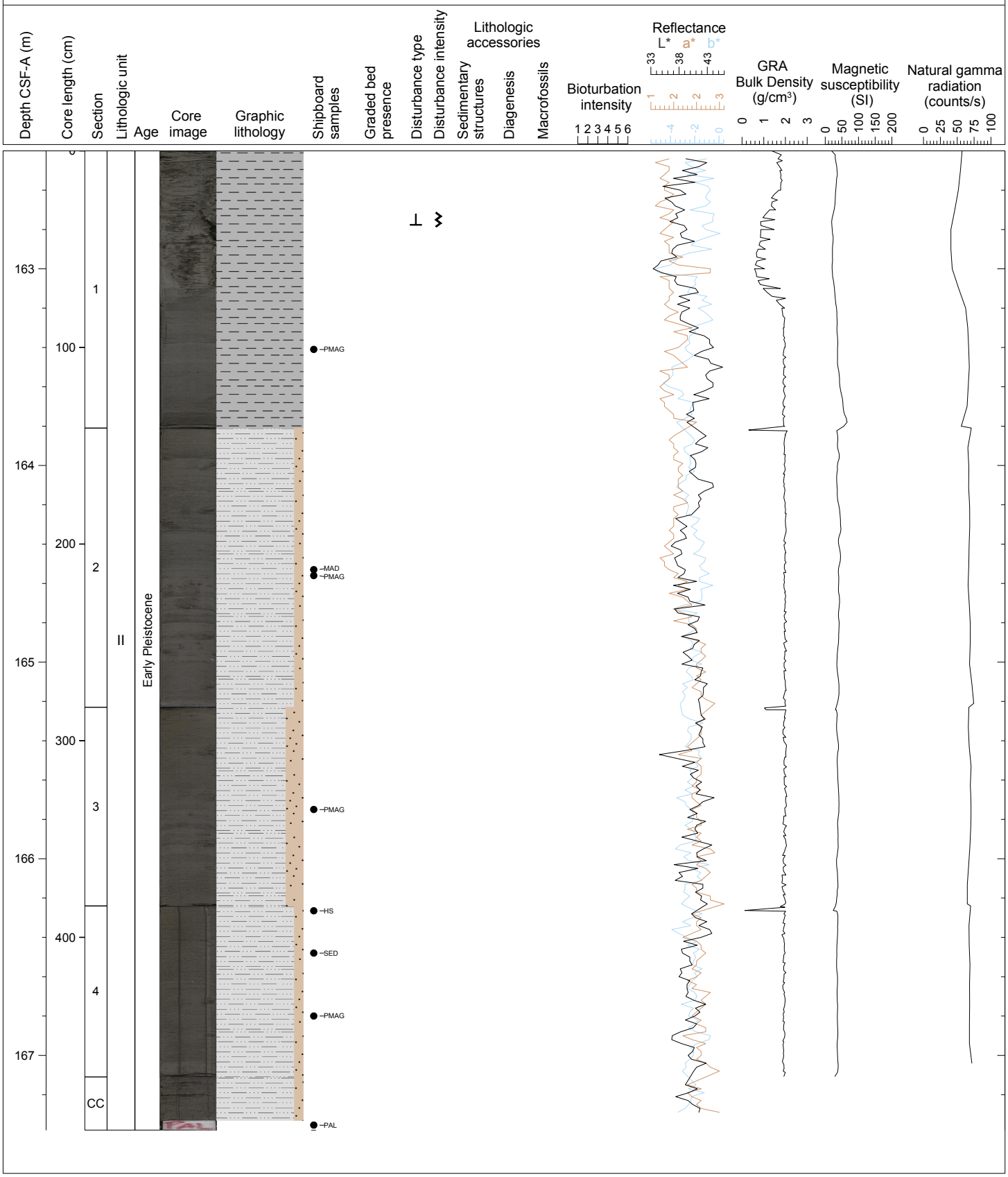
Hole 355-U1457B Core 23F, Interval 153.0-157.73 m (CSF-A)

SILTY CLAY, SANDY SILT. Light brownish SILTY CLAY and dark gray SANDY SILT are the major lithologies. SANDY SILT shows normal grading up into SILTY CLAY, which in turn is sharply overlain across an erosive contact with the next SANDY SILT. Sediment is otherwise massive and is stacked in cycles <50 cm thick.



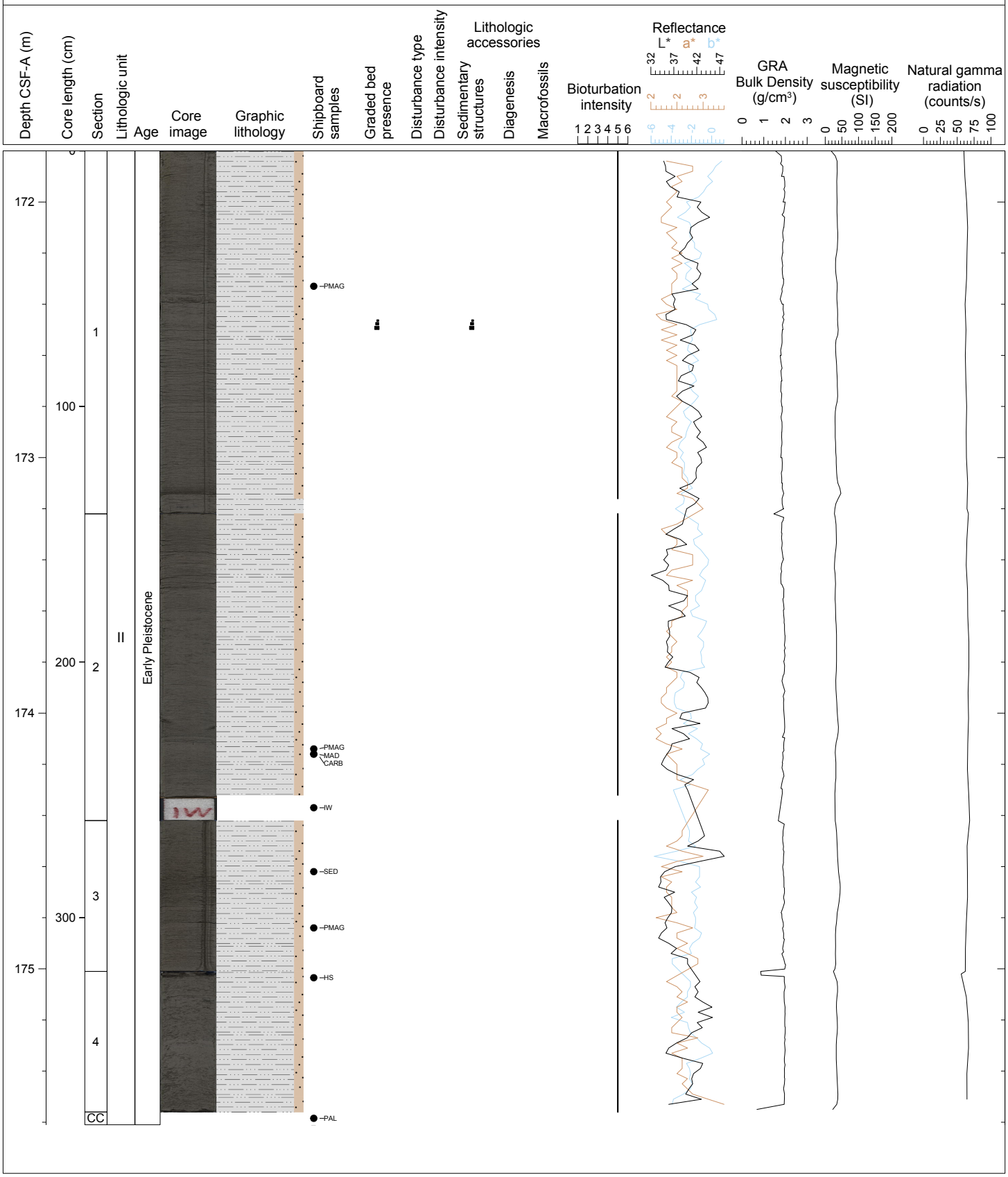
Hole 355-U1457B Core 25F, Interval 162.4-167.38 m (CSF-A)

CLAY, SILTY CLAY, SANDY SILT. Dark gray and brownish CLAY and dark gray SILTY CLAY are dominant. Color changes in the middle of Section 1, separating an upper and lower CLAY, which are otherwise massive. Below this the core is dominated by SILTY CLAY with thin graded interbeds of SANDY SILT which is volumetrically very minor. The silty sediment sits on sharp basal boundaries, although these are not clearly erosive.



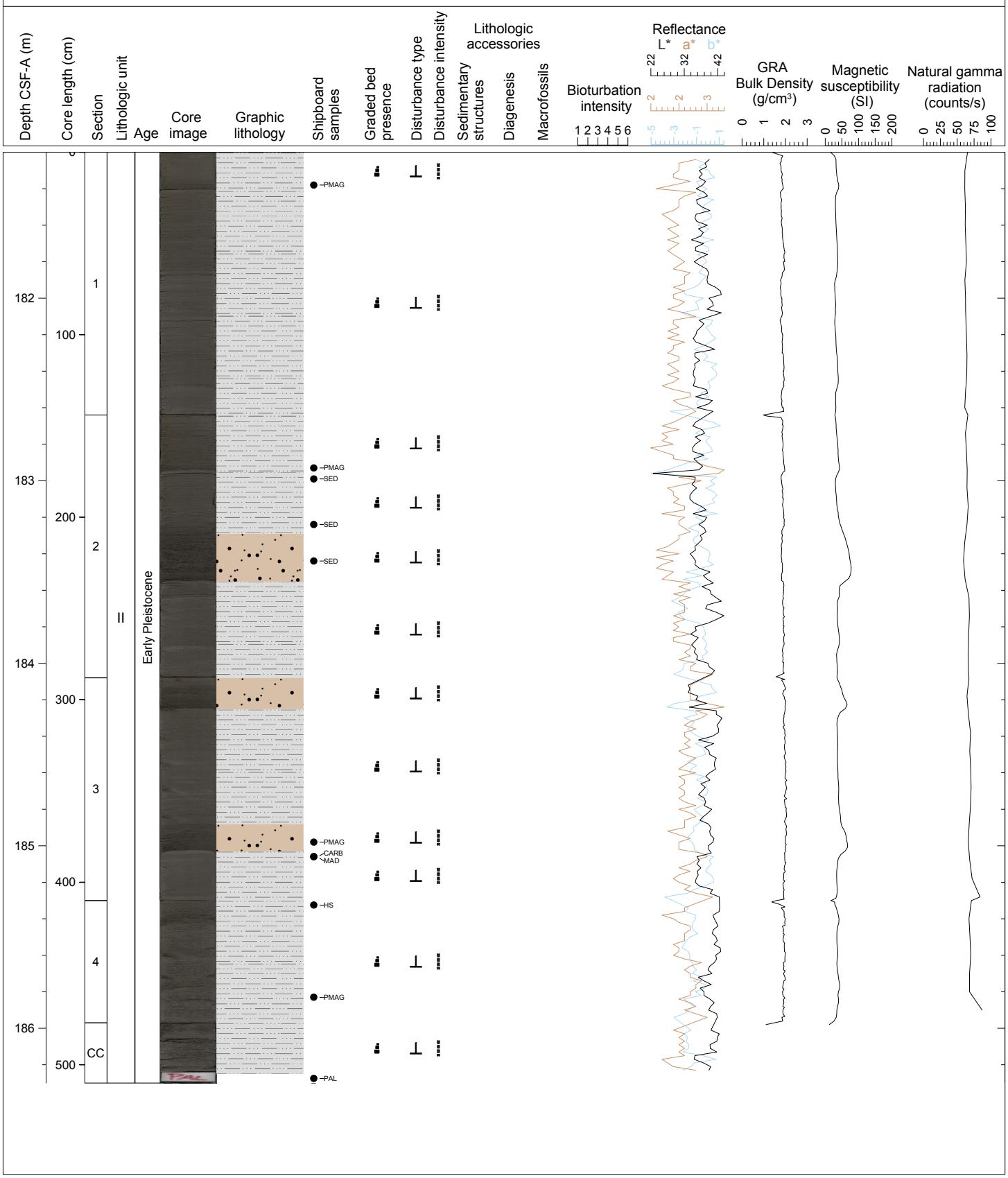
Hole 355-U1457B Core 27F, Interval 171.8-175.61 m (CSF-A)

SILTY CLAY, SANDY SILT. Brownish SILTY CLAY is the main lithology. Dark gray SANDY SILT is minor and is present as occasional sharp-based, graded beds within the massive SILTY CLAY background. The SILTY CLAY is massive, but mottled by strong bioturbation.



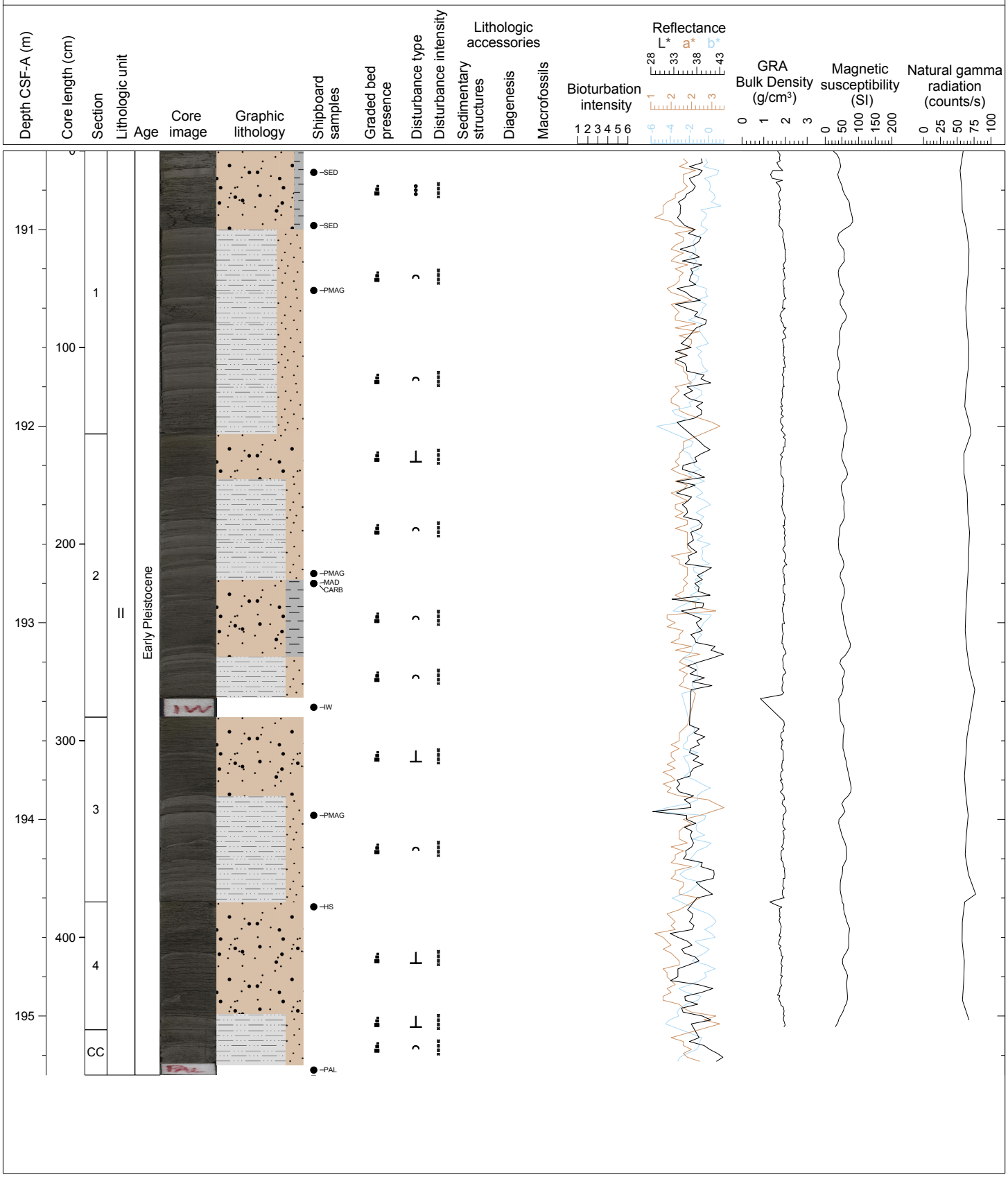
Hole 355-U1457B Core 29F, Interval 181.2-186.3 m (CSF-A)

SILTY CLAY, SANDY SILT. Light brownish SILTY CLAY and SANDY SILT are the major lithologies. The massive SILTY CLAY overlies medium-bedded SANDY SILT, and shows normal graded bedding. The SANDY SILT beds have erosive contacts with the underlying SILTY CLAY, whereas SILTY CLAY shows gradational transitions with the underlying SANDY SILT. The SANDY SILT comprises <10 % of the core. The SILTY CLAY is massive and mottled indicating bioturbation.



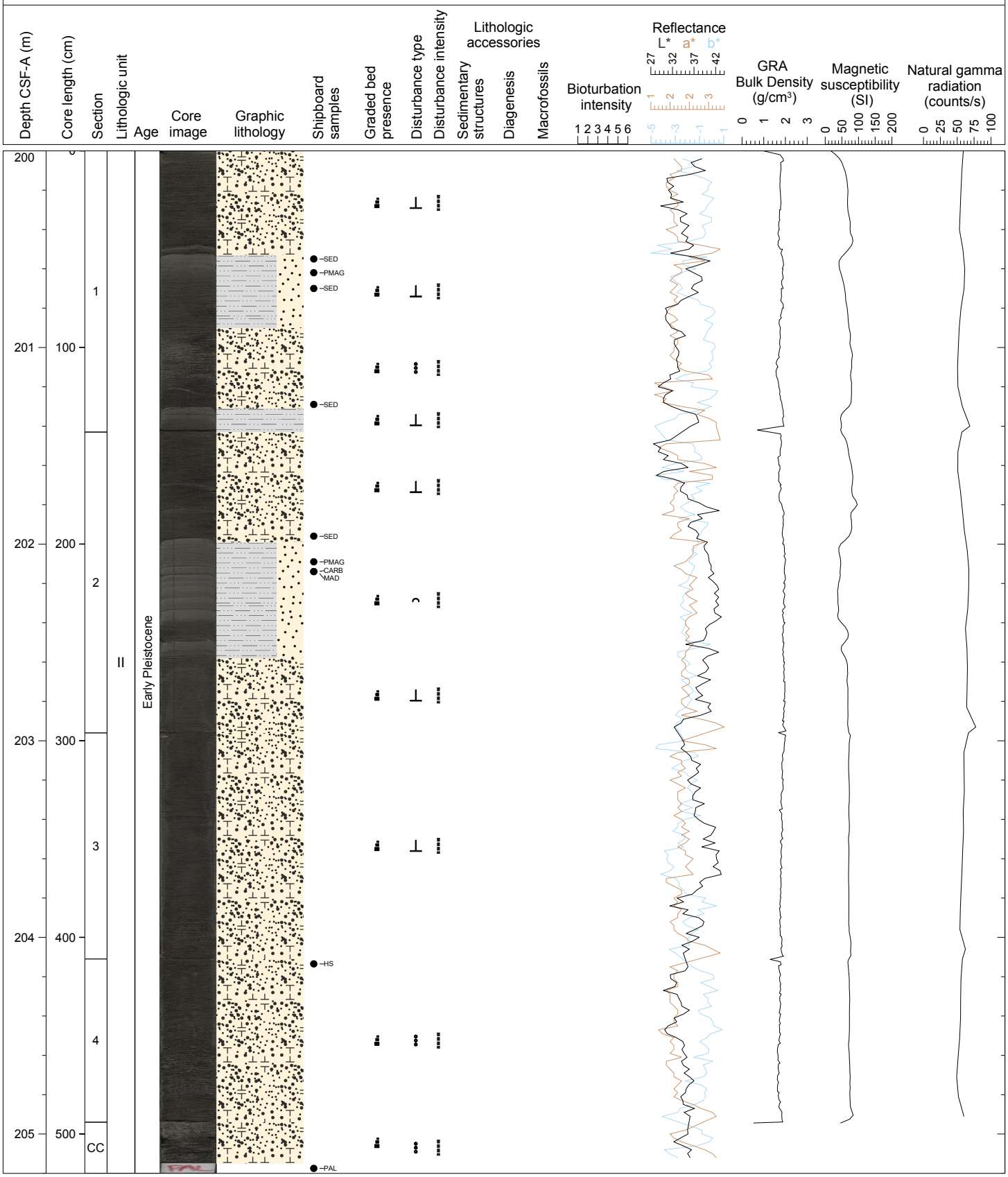
Hole 355-U1457B Core 31F, Interval 190.6-195.3 m (CSF-A)

SILTY CLAY, SANDY SILT. Light brownish SILTY CLAY and SANDY SILT are the major lithologies. The medium to thick SANDY SILT shows erosive contact with underlying SILTY CLAY and in turn grades up into more massive SILTY CLAY. The SILTY CLAY is mostly as in thin beds within thin bedded layers of SANDY SILT. The SANDY SILT comprises ca. 70 % of the core.



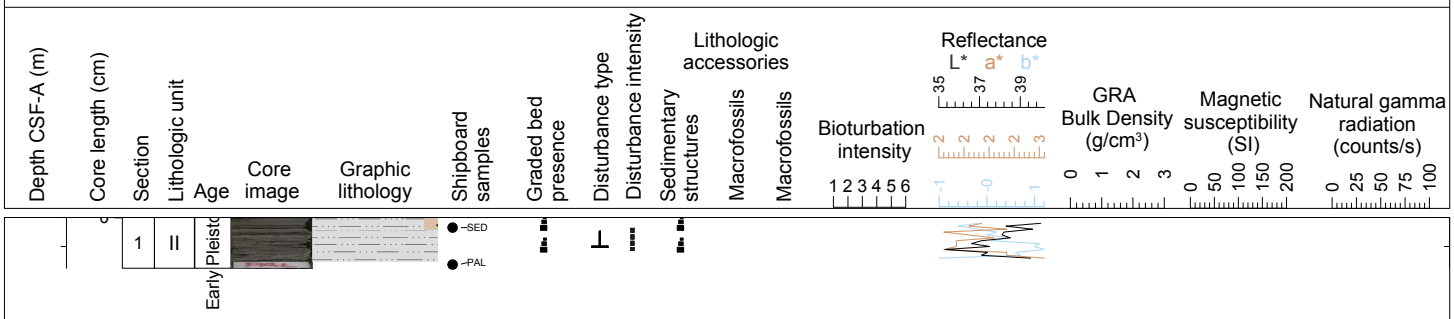
Hole 355-U1457B Core 33F, Interval 200.0-205.2 m (CSF-A)

SILTY CLAY, SILTY SAND. Light brownish gray SILTY SAND is the major lithology. The thin bedded SILTY CLAY is interbedded with thin-bedded SILTY SAND. The SILTY CLAY and SILTY SAND shows normally graded cycles. The massive SILTY SAND has an erosive contact with underlying SILTY CLAY and in turn grades up into the SILTY CLAY. SILTY SANDY comprises <90 % of the core.



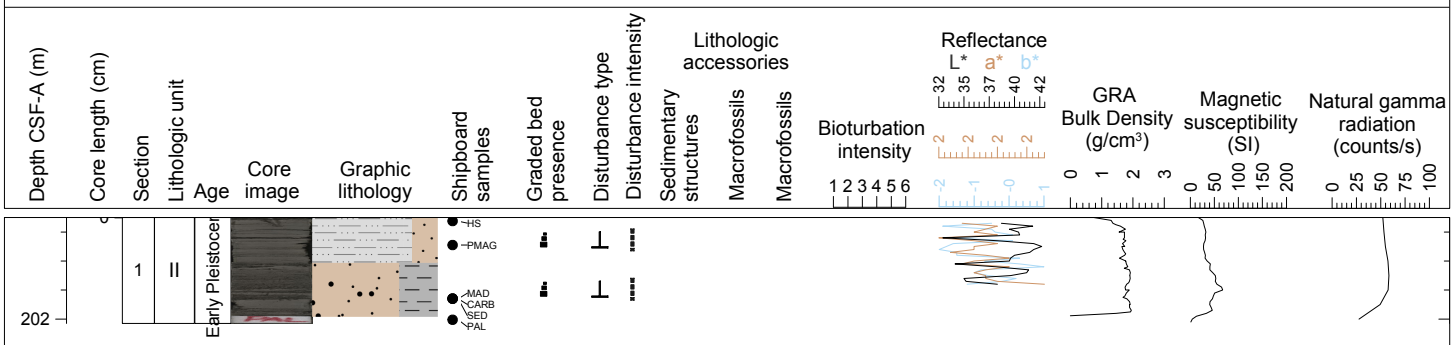
Hole 355-U1457C Core 2R, Interval 191.6-191.95 m (CSF-A)

SILTY CLAY, CLAYEY SILT. Dark gray massive SILTY CLAY dominates but forms a series of normally graded cycles with the minor CLAYEY SILT that have sharp bases and are as much as 3 cm thick.



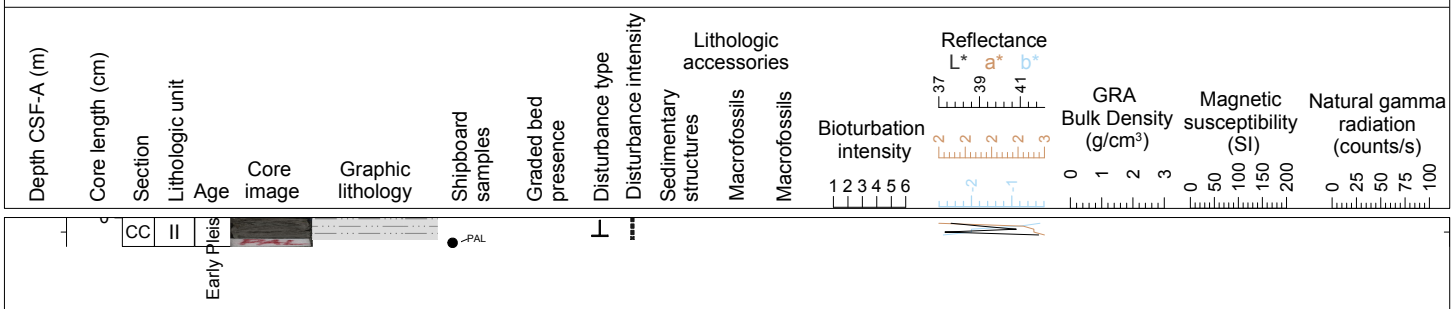
Hole 355-U1457C Core 3R, Interval 201.3-202.03 m (CSF-A)

SILTY CLAY, SANDY SILT. Dark to brownish gray SILTY CLAY and SANDY SILT dominate the core. The SILTY CLAY and SANDY SILT are interbedded and observed as cycles of normally graded beds. SANDY SILT is found with an erosive contact boundary with the underlying SILTY CLAY, and grades up in massive SILTY CLAY.



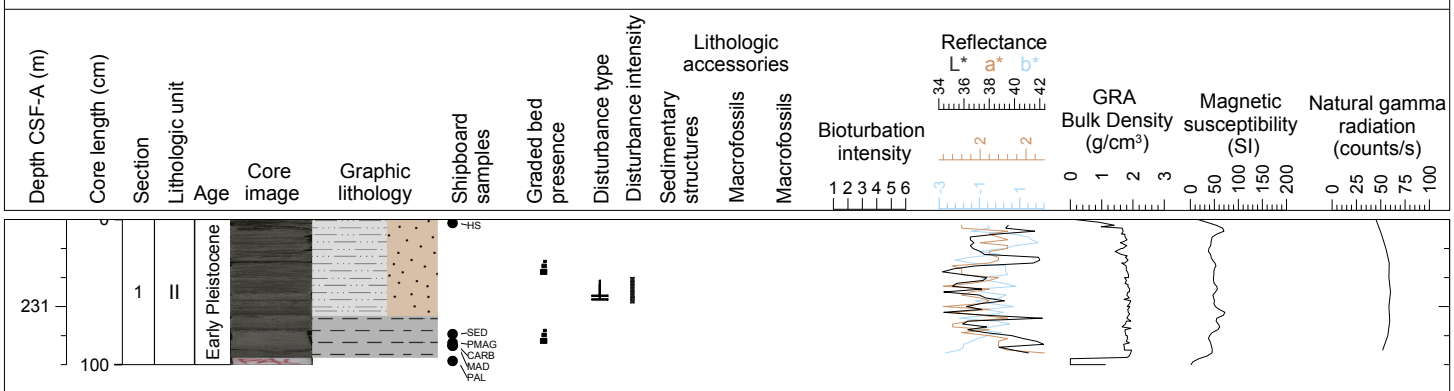
Hole 355-U1457C Core 5R, Interval 220.7-220.9 m (CSF-A)

SILTY CLAY, SANDY SILT. This short core is generally massive but observed to be mottled locally, where drilling disturbance is less intense. Mica grains are seen on the cut core face.



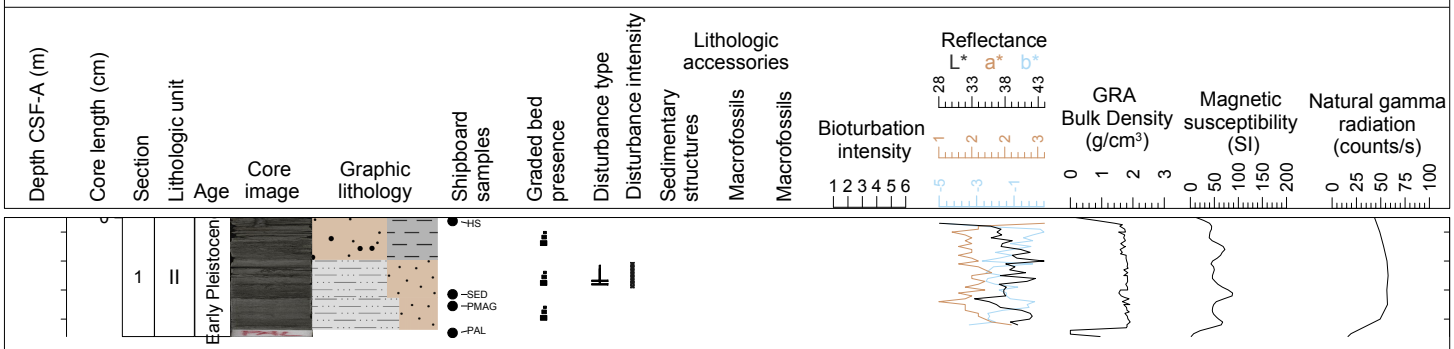
Hole 355-U1457C Core 6R, Interval 230.4-231.4 m (CSF-A)

SILTY CLAY, CLAY, SANDY SILT. Massive dark gray CLAY at the base of the core is overlain by SANDY SILT which has a sharp erosive basal contact and which fines up into SILTY CLAY. Several of these normally graded cycles are found and range in thickness from 5 to ca. 20 cm thick. In places thin (ca. 1 cm thick) graded SANDY SILT beds are found stacked on top of one another. Clay-rich units are mottled or massive, indicative of strong bioturbation.



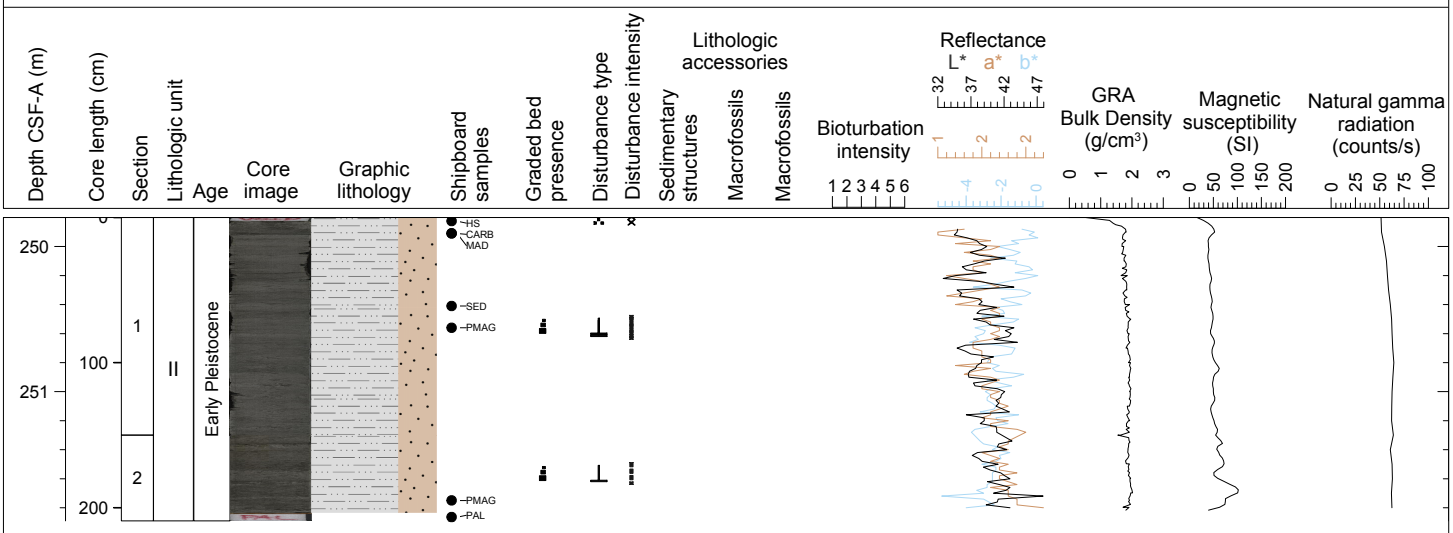
Hole 355-U1457C Core 7R, Interval 240.1-240.92 m (CSF-A)

SILTY CLAY, SANDY SILT. The core is dominated by fining-upward cycles. SANDY SILT fines up into massive dark gray SILTY CLAY. Each cycle has a sharp, erosive base and range up to 22 cm thick. Towards the core top the cycles become thinner and are only 2-3 cm thick near the top. SILTY CLAY dominates and is strongly bioturbated.



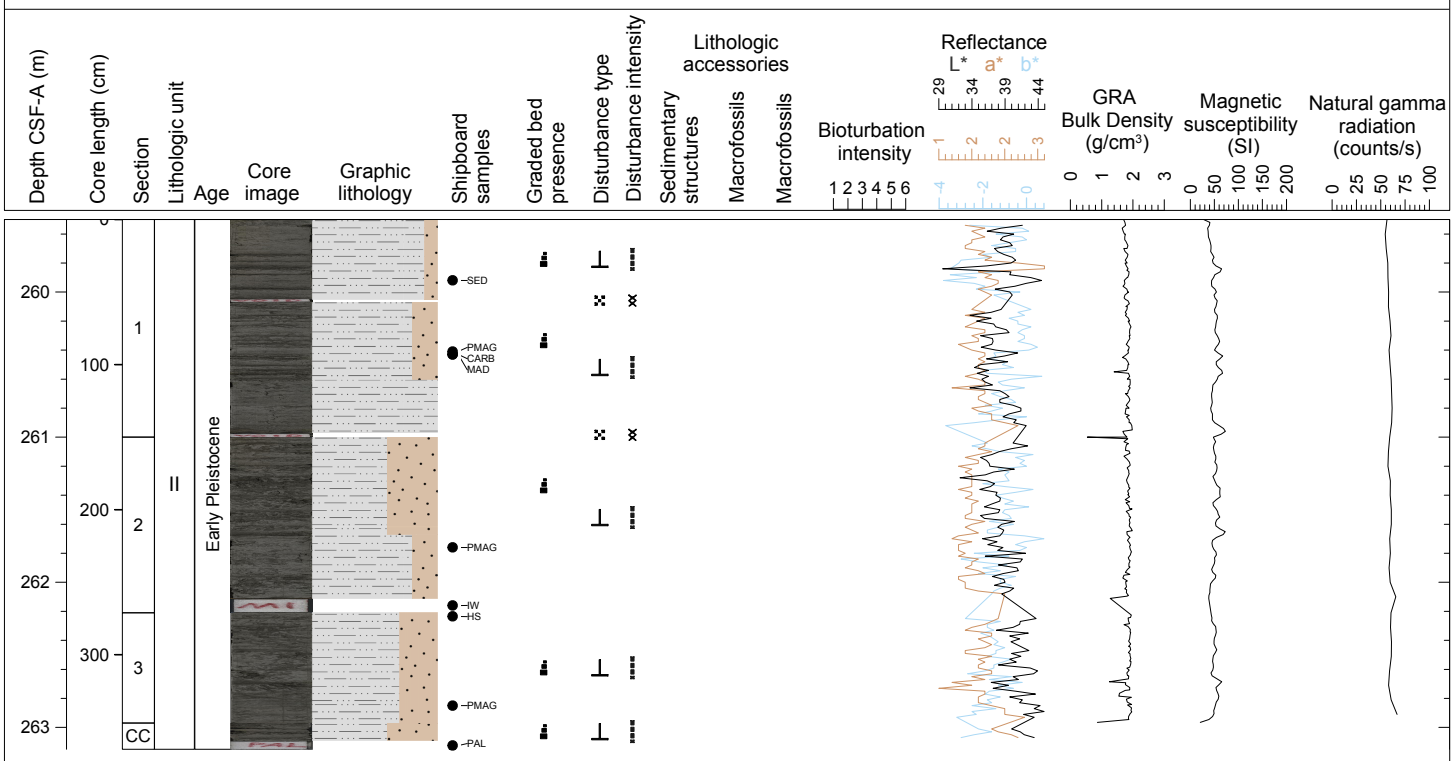
Hole 355-U1457C Core 8R, Interval 249.8-251.89 m (CSF-A)

SILTY CLAY, SANDY SILT. Dark gray SILTY CLAY dominates this core and is generally found in massive, thick beds with rare interbeds of SANDY SILT that are a few cm thick. These show gradational boundaries with the background lithology above and below. Massive structure suggests pervasive bioturbation.



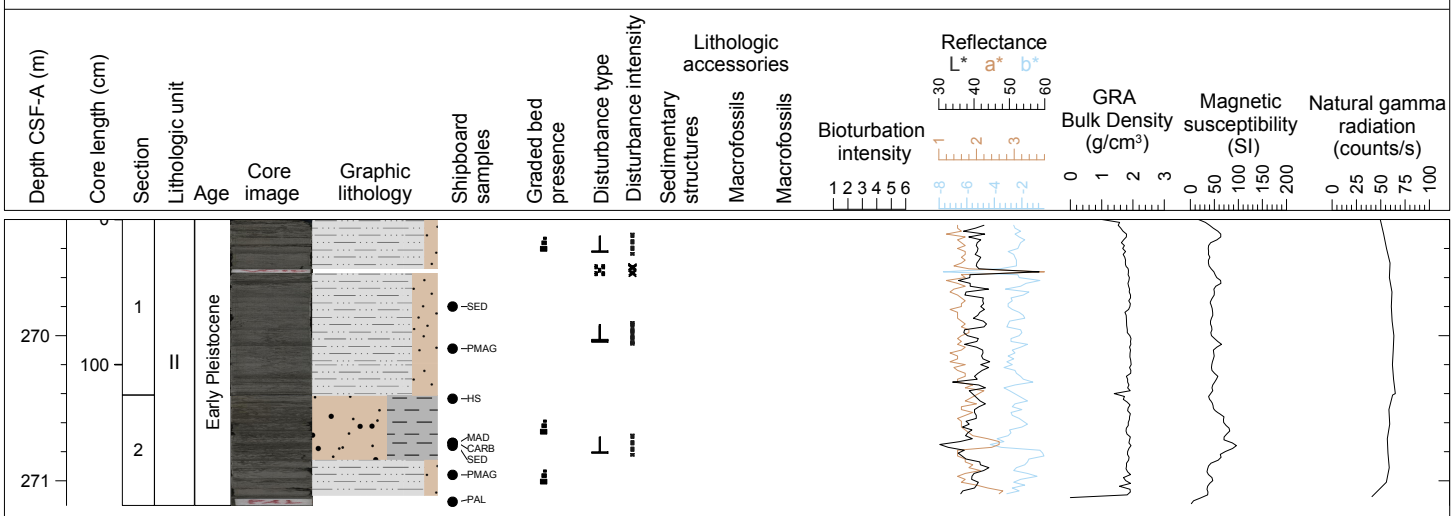
Hole 355-U1457C Core 9R, Interval 259.5-263.15 m (CSF-A)

SILTY CLAY, SANDY SILT. Dark gray SILTY CLAY and SANDY SILT are dominant in this core. SILTY CLAY and SANDY SILT form sharp-based fining upward cycles, usually with thicker, massive fine grained tops. Graded beds mostly range from 5 to 15 cm thickness. Thin beds are successively stacked in the middle of Section 1, where the cycles are <2 cm thick. Massive SILTY CLAY shows burrow infilled by more silty sediment, with burrows ca. 5 mm across.



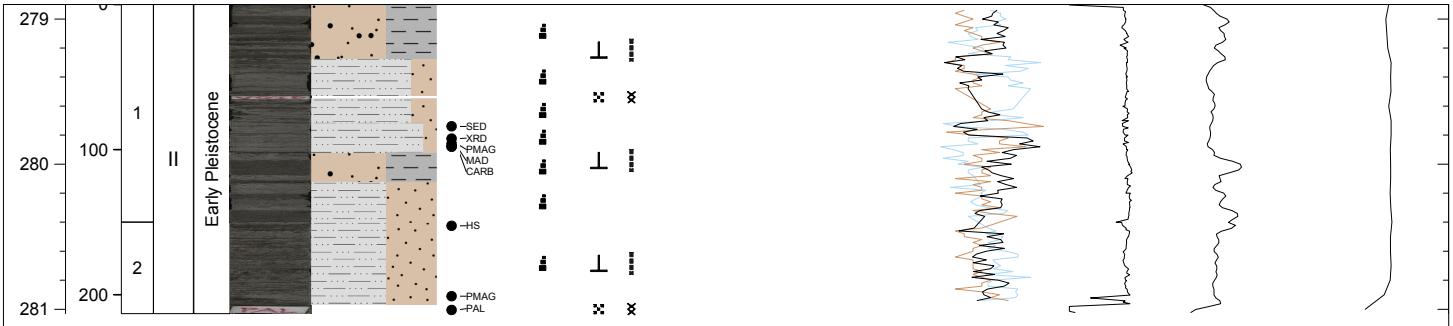
Hole 355-U1457C Core 10R, Interval 269.2-271.17 m (CSF-A)

SILTY CLAY, SANDY SILT. Dark gray SILTY CLAY and SANDY SILT are the main lithologies and form clear, sharp-based fining upwards cycles with erosive bases. Clay-rich tops of these beds are much greater volume than the silty bases which are up to 4 cm thick within individual graded beds that are up to 43 cm thick in total. The SILTY CLAY is color banded over its thicker sections and is massive or mottled by bioturbation.



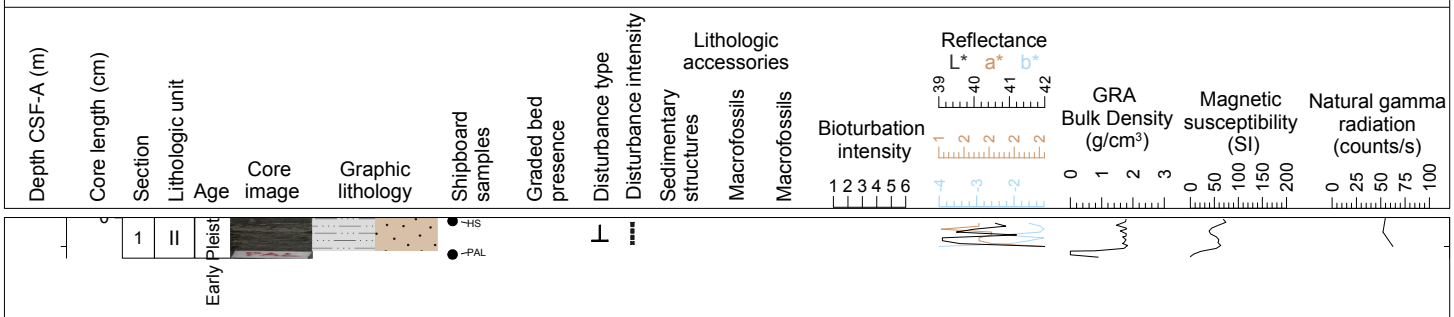
Hole 355-U1457C Core 11R, Interval 278.9-281.03 m (CSF-A)

SILTY CLAY, SANDY SILT. Dark gray SILTY CLAY and SANDY SILT are the main lithologies and form normally graded beds with sharp erosive bases. SILTY CLAY is volumetrically more importantly than the SANDY SILT in total but parts of the core are silt dominated. SANDY SILT shows mica grains on the cut surface of larger beds that are up to 11 cm thick. The SILTY CLAY is generally massive but contains burrows filled by silty sediment.



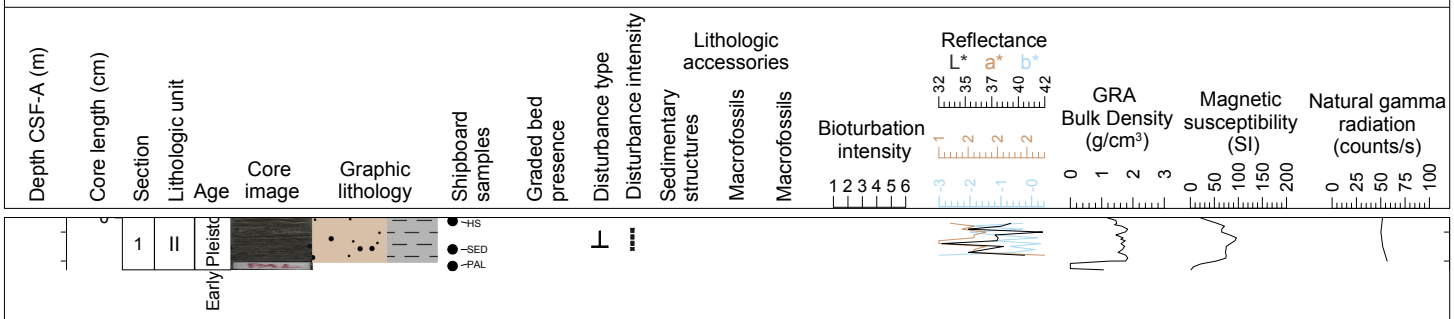
Hole 355-U1457C Core 12R, Interval 288.6-288.88 m (CSF-A)

SILTY CLAY, SANDY SILT. Dark gray SILTY CLAY and SANDY SILT form three fining upward cycles with one clear sharp, erosive base. Muscovite mica grains are seen on cut surfaces of the massive SANDY SILT. The SILTY CLAY is massive and mottled by burrowing, some of which is seen to be horizontally oriented and stained greenish gray.



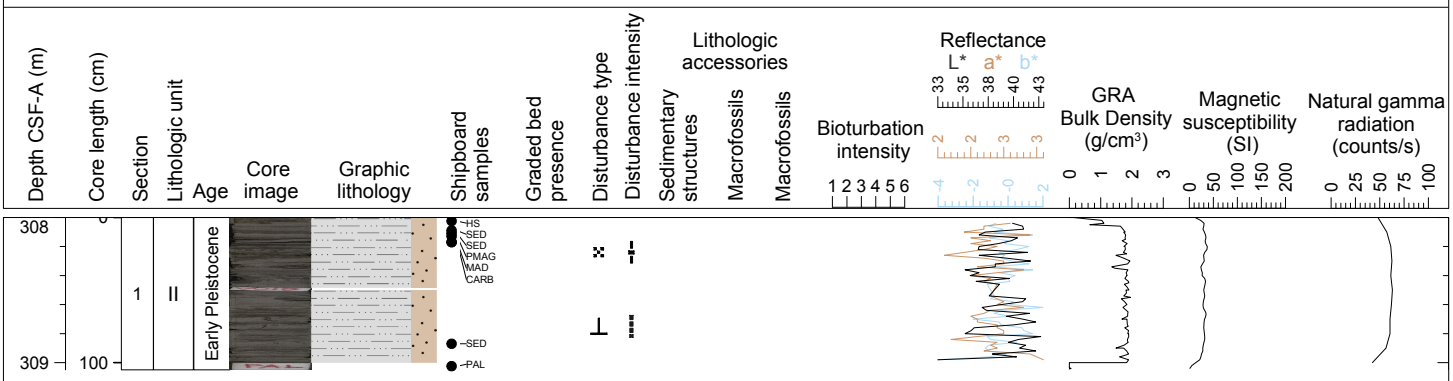
Hole 355-U1457C Core 13R, Interval 298.3-298.66 m (CSF-A)

SILTY CLAY, SANDY SILT. Dark gray SILTY CLAY and SANDY SILT form a series of normally graded, fining upward cycles with clear sharp, erosive basal contacts. Individual cycles are up to 8 cm thick. SANDY SILT is rich in mica grains.



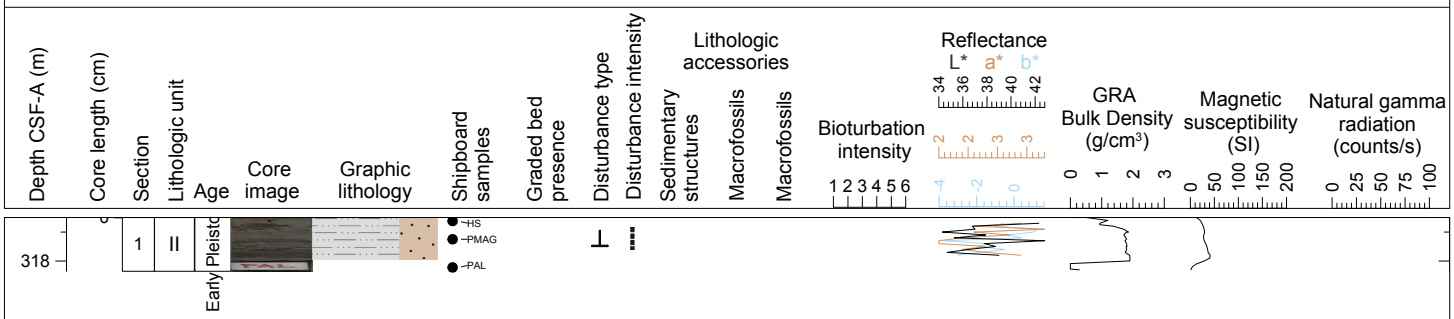
Hole 355-U1457C Core 14R, Interval 308.0-309.05 m (CSF-A)

SILTY CLAY, SANDY SILT. Dark to brownish gray SILTY CLAY dominates and is interbedded with thin SANDY SILT beds, typically <1 cm thick, but ranging up to 4 cm thick. The SILTY CLAY and SANDY SILT form cycles of graded bedding. The bases of the SANDY SILT beds show erosive bases, overlying massive SILTY CLAY of the previous cycle. Some of the graded beds have irregular bases and uneven thicknesses of the silt-rich sediment.



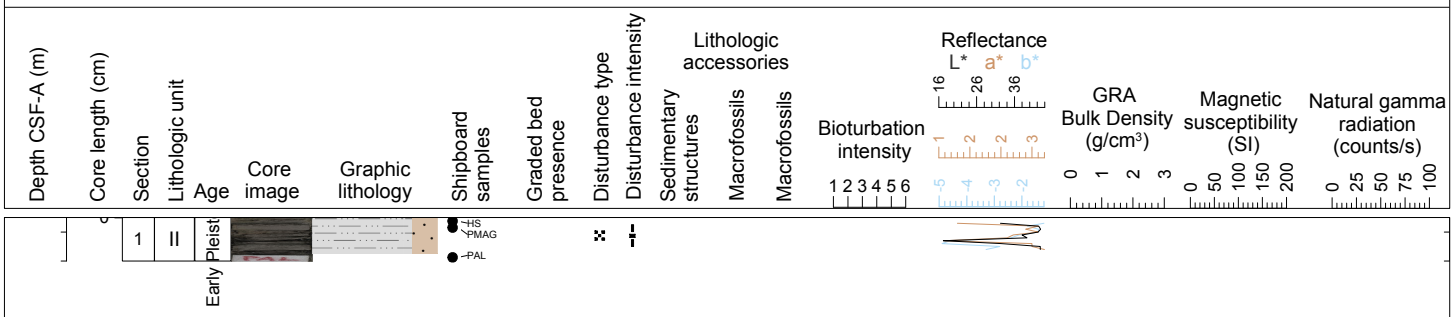
Hole 355-U1457C Core 15R, Interval 317.7-318.07 m (CSF-A)

SILTY CLAY, SANDY SILT. Brownish gray SILTY CLAY dominates and forms fining upward cycles with thin (<5 cm) SANDY SILT beds that have clear, sharp, erosive bases. the entire cycles are 10 and 17 cm thick. The dominant clay-rich tops show faint color banding and sub-horizontal burrows filled with silty sediment. Otherwise the SILTY CLAY is massive.



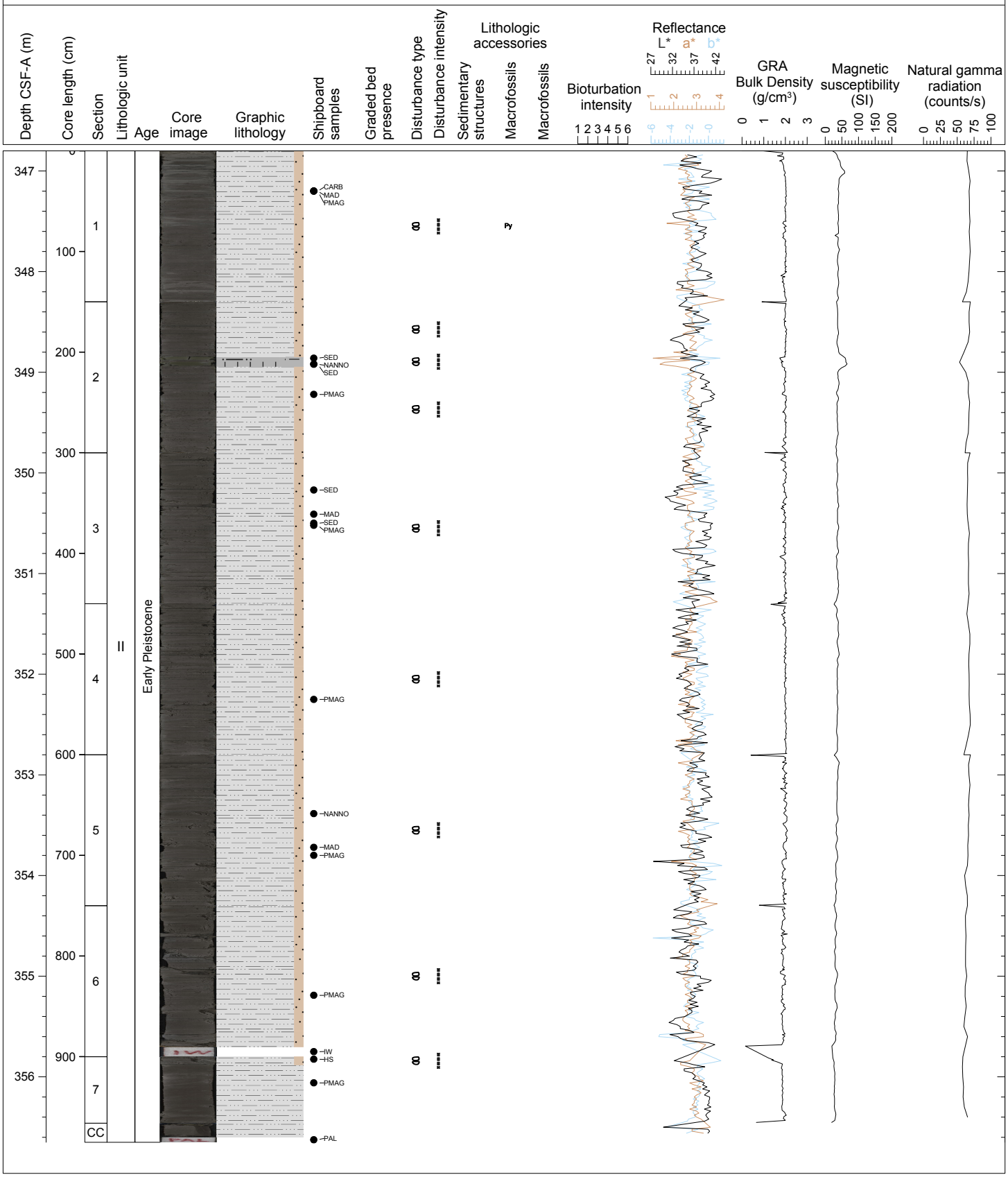
Hole 355-U1457C Core 17R, Interval 337.1-337.4 m (CSF-A)

SILTY CLAY, SANDY SILT. Dark to brownish gray SILTY CLAY is interbedded with thin (<2 cm) SANDY SILT intervals in fining upward cycles. The cycles have sharp bases and graded rapidly up into massive SILTY CLAY. Some of the SANDY SILT appears to be present as a pod but this may reflect disruption during coring. Faint pyrite blebs are seen in the clay-rich layers.



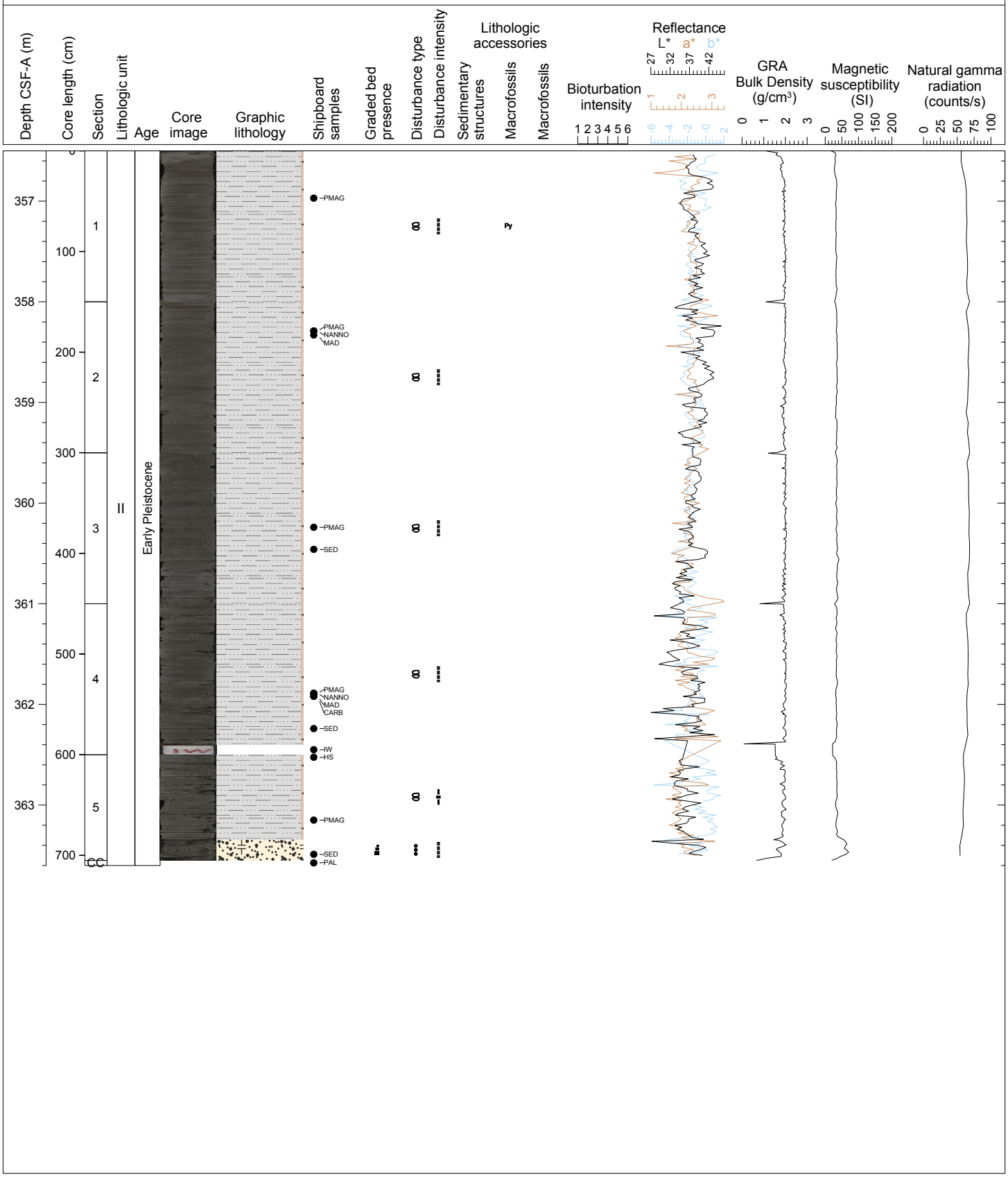
Hole 355-U1457C Core 18R, Interval 346.8-356.65 m (CSF-A)

SILTY CLAYSTONE, CLAYEY SILTSTONE, CALCAREOUS-RICH CLAYSTONE. Light brownish, massive SILTY CLAYSTONE is the major lithology. The sediment are semi indurated. Thin bedded SILTY CLAYSTONE is interbedded with very thin (<1 cm) CLAYEY SILTSTONE. The interbeds form cycles ~5 cm thick. Black-colored horizontal layers are often observed in the core. Two beds of thin-bedded greenish CALCAREOUS-RICH CLAYSTONE are found in Section 2 (55-64 cm).



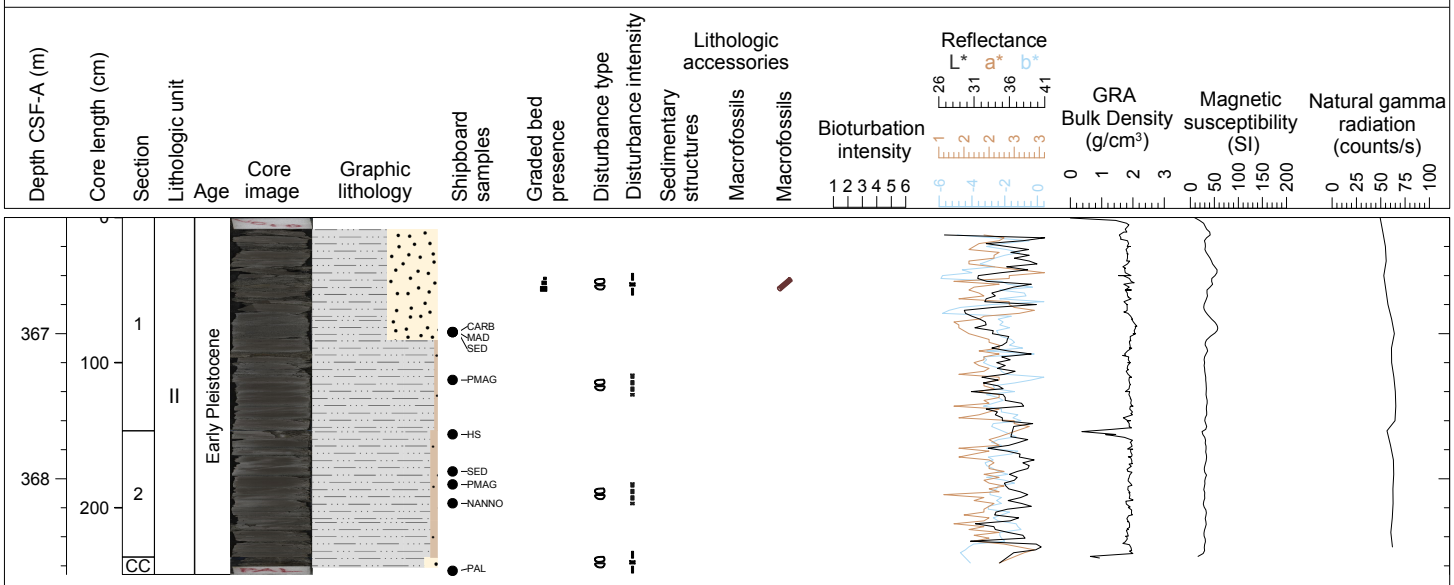
Hole 355-U1457C Core 19R, Interval 356.5-363.6 m (CSF-A)

SILTY CLAYSTONE, CLAYEY SILTSTONE, SILTY SAND. Light brown SILTY CLAYSTONE interbedded with very thin (<1 cm) CLAYEY SILTYSTONE is the major lithology. Medium bedded SILTY SAND with clay chunks and containing mica grains is found at the bottom of the core. The SILTY CLAYSTONE and CLAYEY SILTSTONE interbedded cycles are ca. 5 cm thick and normally graded. The basal boundaries of the basal CLAYEY SILTSTONE are sharp and erosive. Dispersed pyrite grains are often observed. CLAYEY SILTSTONE comprises <2% of the core. Biscuit type drilling induced disturbance is more frequent towards the bottom of the core.



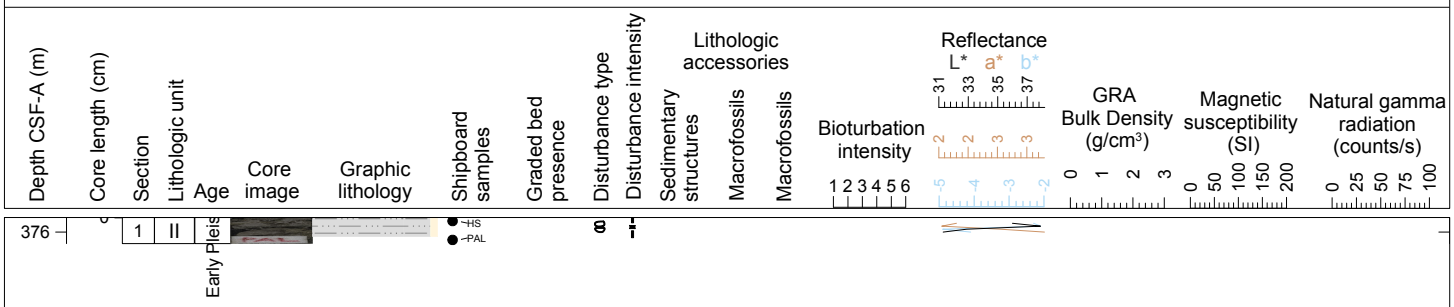
Hole 355-U1457C Core 20R, Interval 366.2-368.66 m (CSF-A)

SILTY CLAYSTONE, CLAYEY SILTSTONE, SILTY SANDSTONE. Light brown SILTY CLAYSTONE, interbedded with very thin (<1 cm) CLAYEY SILTYSTONE and dark gray SILTY SANDSTONE are the major lithologies. Medium-bedded SILTY SANDSTONE with clay chunks, and containing mica grains is common in the upper part of the core. The SILTY CLAYSTONE and CLAYEY SILTSTONE interbedded cycles are normally graded and ca. 5 cm thick. Black color banding are occasionally found in the core. Thin pieces of wood ca. 2 cm long are found in the core (at Section 1, 35-37 cm and 82-84 cm). The basal boundaries of the SILTY CLAYSTONE beds are sharp and erosive and showing fining. SILTY SANDSTONE comprises <30% of the core. The top of the core is destroyed by drilling.



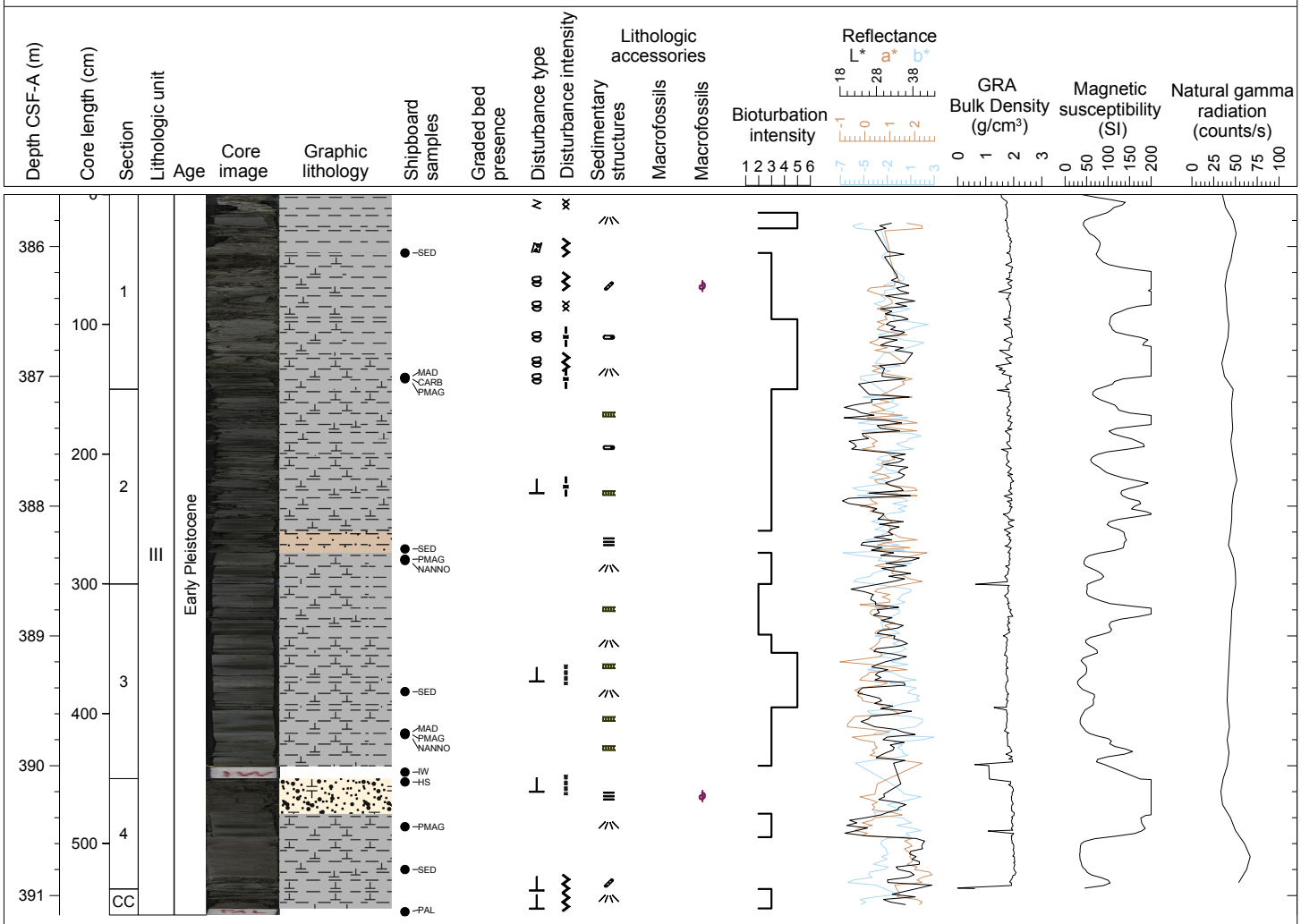
Hole 355-U1457C Core 21R, Interval 375.9-376.08 m (CSF-A)

SILTY CLAYSTONE, CLAYEY SILTSTONE, SILTY SAND. Light brown SILTY CLAYSTONE is interbedded with very thin-bedded (<1 cm) CLAYEY SILTSTONE and SILTY SANDSTONE and the major lithology. All three lithologies are disrupted and mixed in the core. The lithological characteristics seem to be similar to previous core and show graded bedding in places.



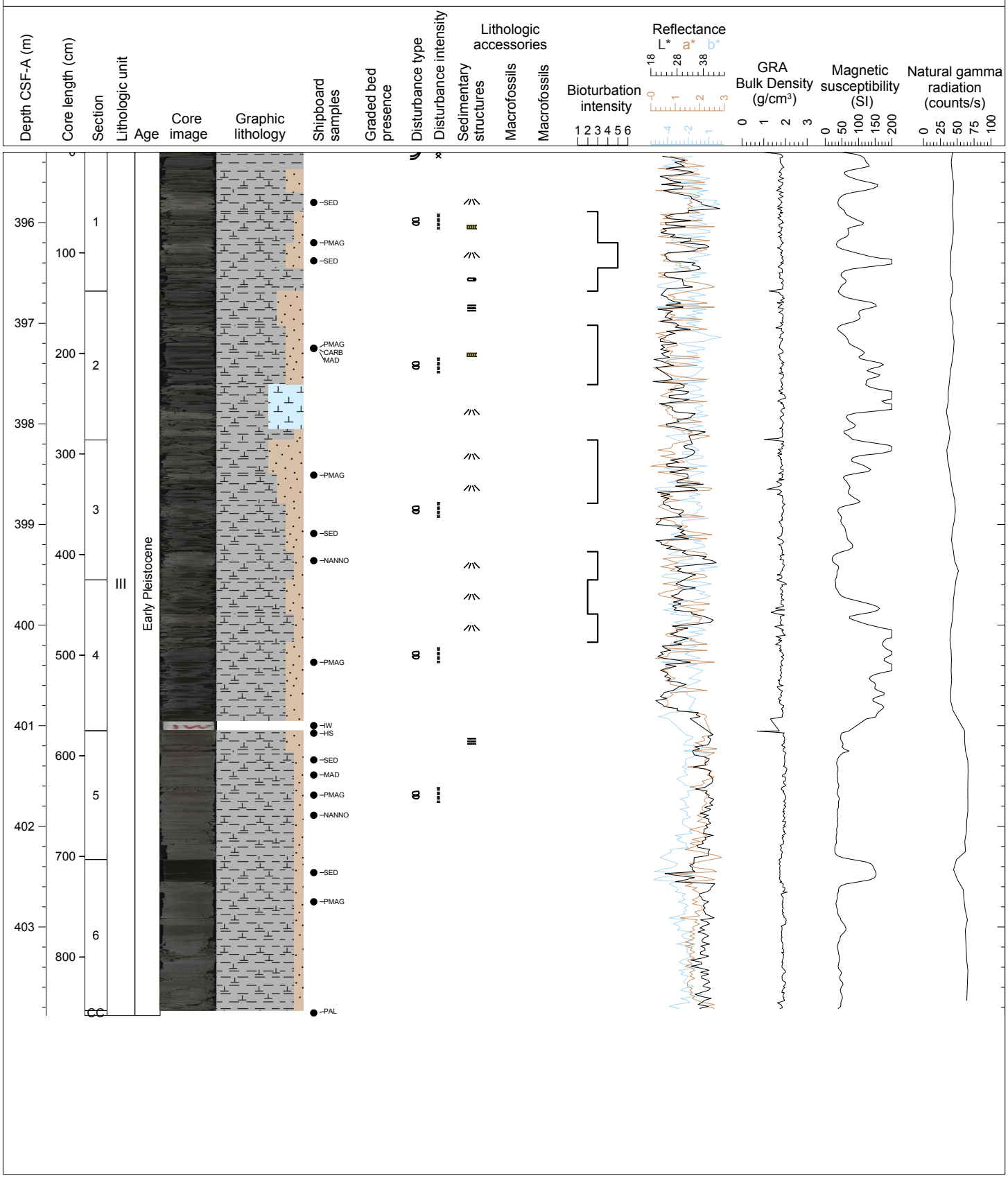
Hole 355-U1457C Core 22R, Interval 385.6-391.15 m (CSF-A)

CLAYSTONE, NANNOFOSSIL-RICH CLAYSTONE, CLAYEY SILTSTONE, SILTY SANDSTONE, SILTY CLAYSTONE. Light and dark greenish NANNOFOSSIL-RICH CLAYSTONE is the main lithology. Diverse burrow types including Zoophycos, Chondrites, and Planolitse was seen within NANNOFOSSIL-RICH CLAYSTONE. Most burrows are <1 cm across. Very thin (a few mm) parallel laminations were found in dark green CLAYSTONE. A thick (~30 cm) gray NANNOFOSSIL-RICH CLAYSTONE in Section 4 is massive. Gray SILTY SANDSTONE, showing thin parallel laminations, is overlained by NANNOFOSSIL-RICH CLAYSTONE in a fining upward cycle.



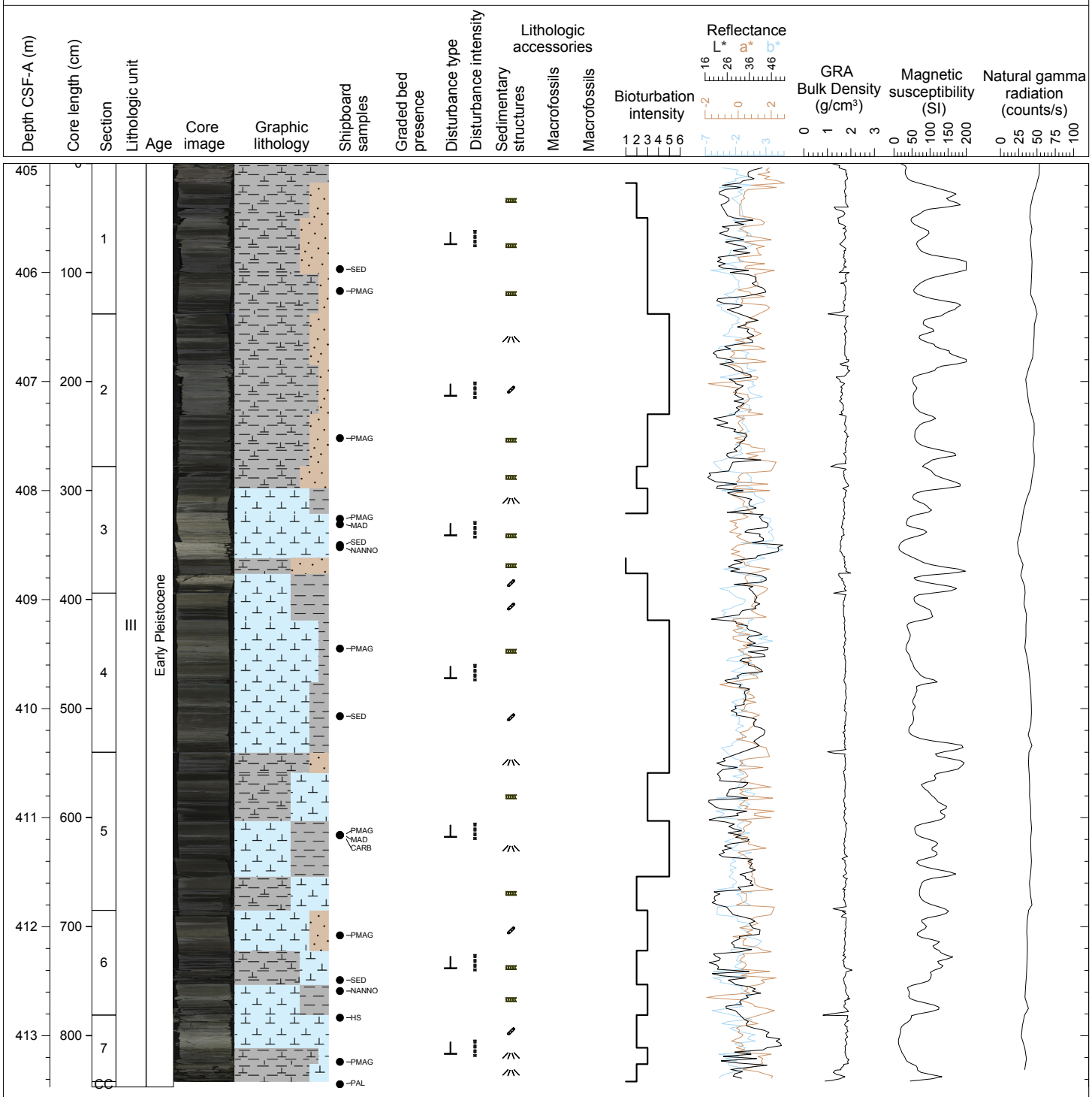
Hole 355-U1457C Core 23R, Interval 395.3-403.88 m (CSF-A)

NANNOFOSSIL-RICH CLAYSTONE, CLAYEY SILTSTONE. Dark gray and light gray NANNOFOSSIL-RICH CLAYSTONE is dominant. Thin (5-15 cm thick) light gray CLAYEY SILTSTONE is overlain by thick (>10 cm) dark gray NANNOFOSSIL-RICH CLAYSTONE beds in a series of fining upward cycles. The clay-rich sediment is characterized by strong burrow structures (Zoophycos, Chondrites, and Planolites). Top boundary of the NANNOFOSSIL-RICH CLAYSTONE is normally erosive and sharp where it is overlain by SILTSTONE. A tiny (ca. 2 mm) pyrite micronodule was found at Section 1, 105 cm. Sections 5 and 6 consist of light gray CLAYEY SILTSTONE interbedded with very dark gray NANNOFOSSIL-RICH CLAYSTONE. A bed of CLAYEY SILTSTONE at 20 cm of Section 5 contains wood fragments and is laminated.



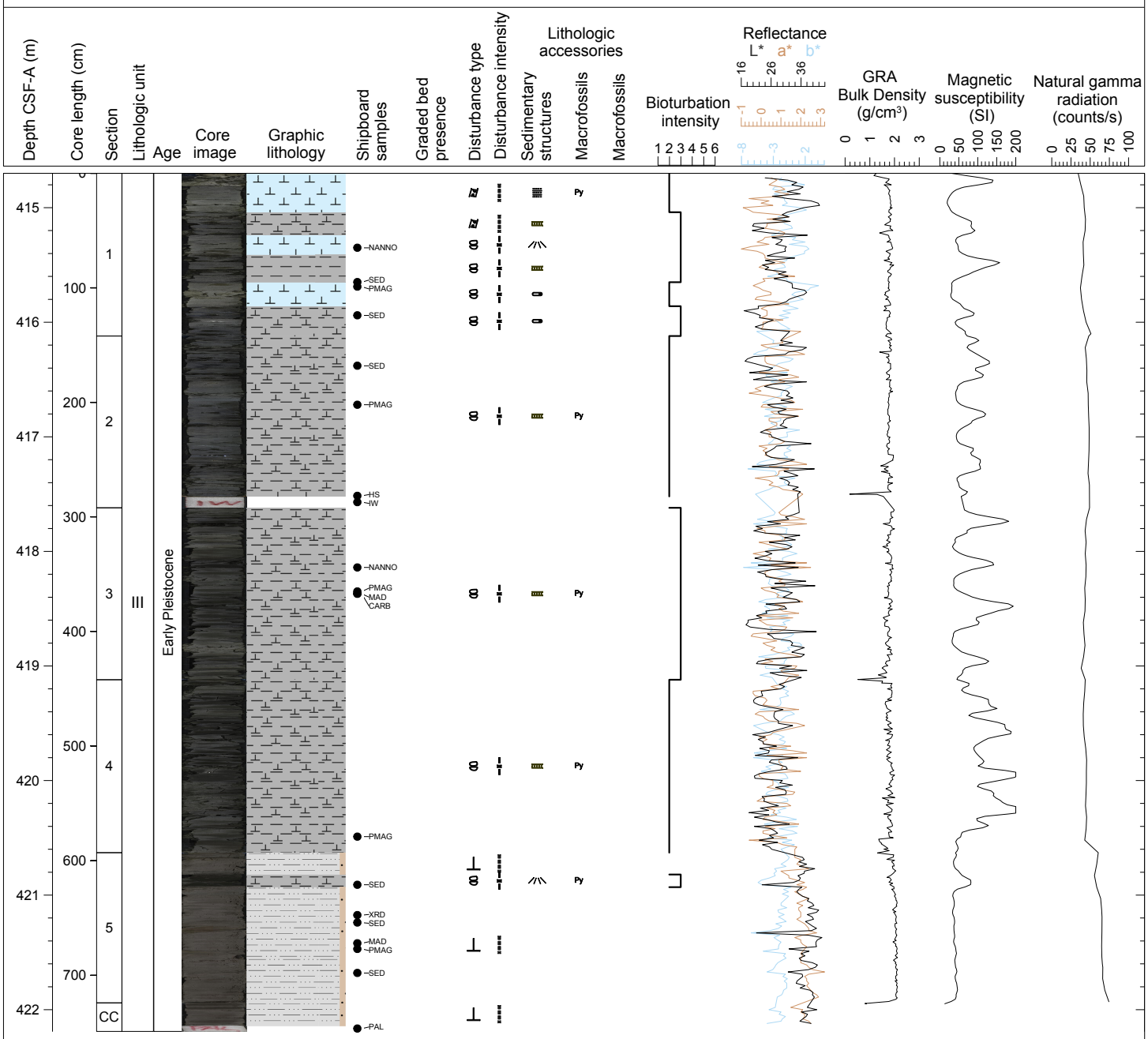
Hole 355-U1457C Core 24R, Interval 405.0-413.47 m (CSF-A)

NANNOFOSSIL-RICH CLAYSTONE, NANNOFOSSIL CHALK. CLAYEY SILTSTONE, SANDY SILTSTONE. Dark gray, pale gray and light gray NANNOFOSSIL-RICH CLAYSTONE and whitish gray NANNOFOSSIL CHALK are the dominant lithologies. Burrowing is intense in NANNOFOSSIL-RICH CLAYSTONE and NANNOFOSSIL CHALK, showing Zoophycos and Chondrites. NANNOFOSSIL CHALK is overlain by pale gray NANNOFOSSIL-RICH CLAYSTONE. These two lithologies are repeated in normally graded cycles, showing sharp erosive boundary at the base of the NANNOFOSSIL-RICH CLAYSTONE. Thin (<5 cm) dark gray SANDY SILTSTONE is interbedded with NANNOFOSSIL-RICH CLAYSTONE and shows very thin parallel laminations. Tiny pyrites are seen throughout the core.



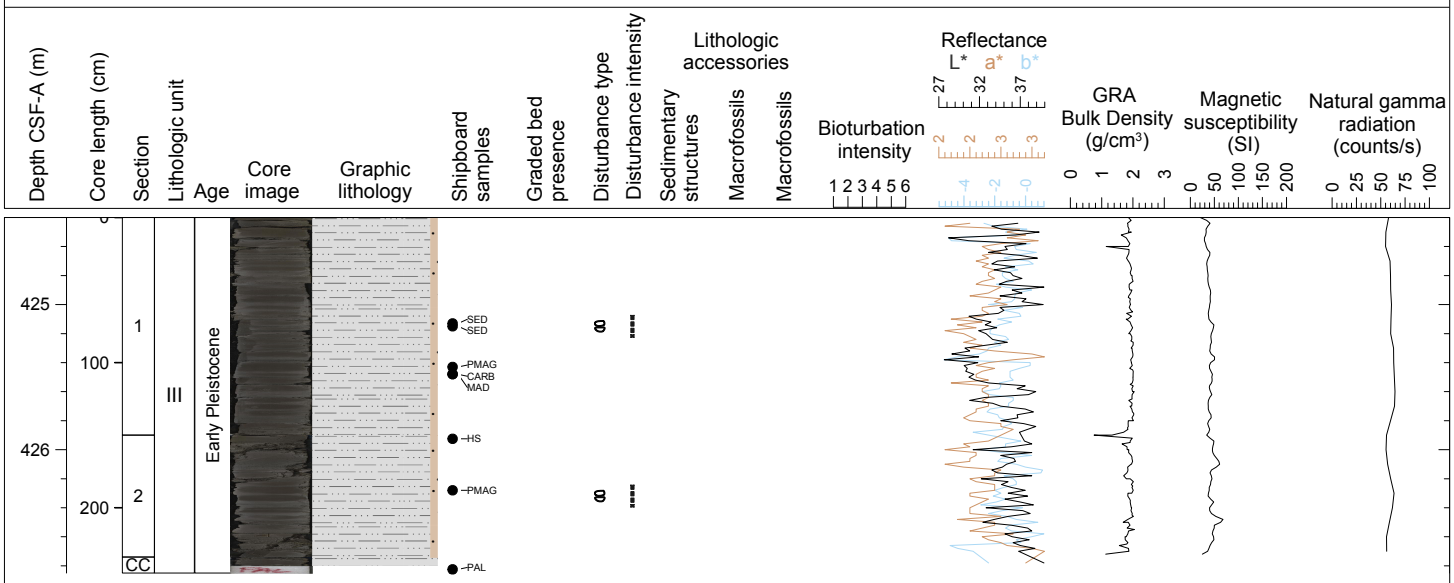
Hole 355-U1457C Core 25R, Interval 414.7-422.19 m (CSF-A)

NANNOFOSSIL-RICH CLAYSTONE, NANNOFOSSIL CHALK, CLAYEY SILTSTONE, SILTY CLAYSTONE, CLAYSTONE WITH FORAMINIFERS. The core is dominated by dark gray NANNOFOSSIL RICH CLAYSTONE, and interbeds of whitish gray NANNOFOSSIL CHALK. Light brownish SILTY CLAYSTONE is also found interbedded with thin (<1 cm) CLAYEY SILTSTONE. The medium bedded organic-rich CLAYSTONE WITH FORAMINIFERS is observed at Section 1, 71-95 cm. Dark NANNOFOSSIL-RICH CLAYSTONE is intensely bioturbated, whereas NANNOFOSSIL CHALK has greenish color banding. The lower part of the core is dominated by semi-consolidated light brownish SILTY CLAYSTONE, interbedded with CLAYEY SILTSTONE. These show normally graded cycles of about 5 cm thickness. The dominant burrows are Zoophycos, Chondrites, Planolites and some composite burrows. Tiny pyrites are seen throughout the core.



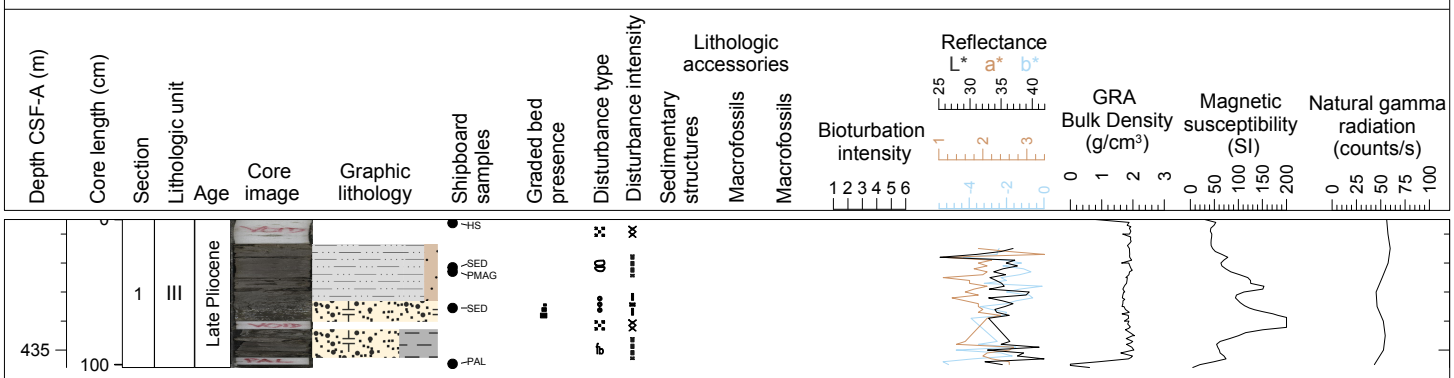
Hole 355-U1457C Core 26R, Interval 424.4-426.85 m (CSF-A)

SILTY CLAYSTONE, CLAYEY SILTSTONE. Light brownish gray SILTY CLAYSTONE interbedded with very thin (<1 cm) beds of CLAYEY SILTSTONE is dominant. These sediments are interbedded in normally graded cycles of about 3-5 cm thickness. The CLAYEY SILTSTONE layers often contain organic matter in the lower part of the core. Tiny pyrite patches are seen throughout the core.



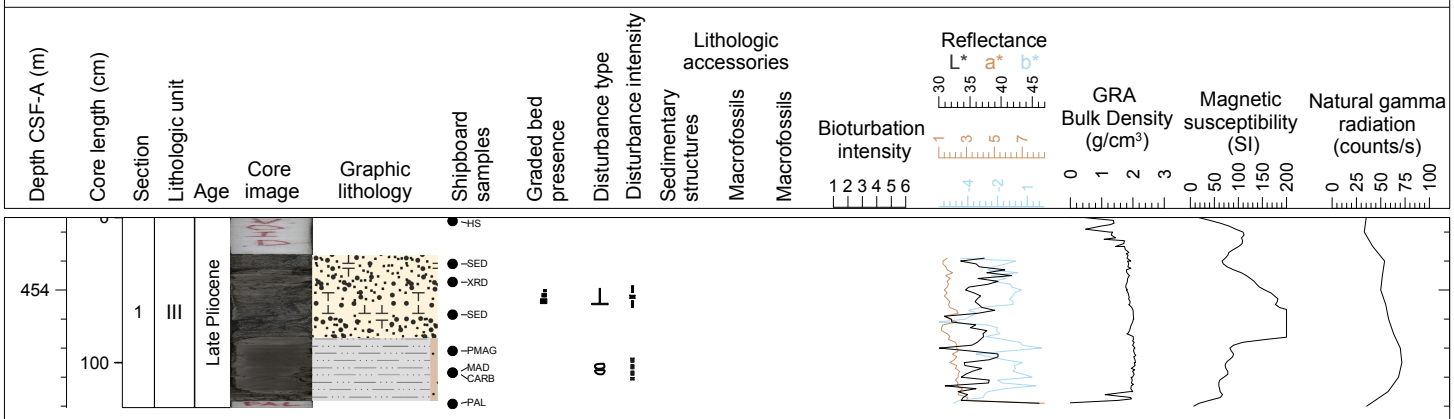
Hole 355-U1457C Core 27R, Interval 434.1-435.12 m (CSF-A)

SILTY CLAYSTONE, CLAYEY SILTSTONE, SILTY SAND. The dominant light brownish SILTY CLAYSTONE is interbedded with very thin (<1 cm) beds of CLAYEY SILTSTONE and brownish gray beds of SILTY SAND. The SILTY CLAYSTONE and CLAYEY SILTSTONE are interbedded in normally graded cycles of about 5 cm thickness. SILTY SAND is observed in the lower part of the core and grades up into SILTY CLAYSTONE. The SILTY SAND comprises <30 % of the core. The core is often disrupted and shows void drilling induced disturbances.



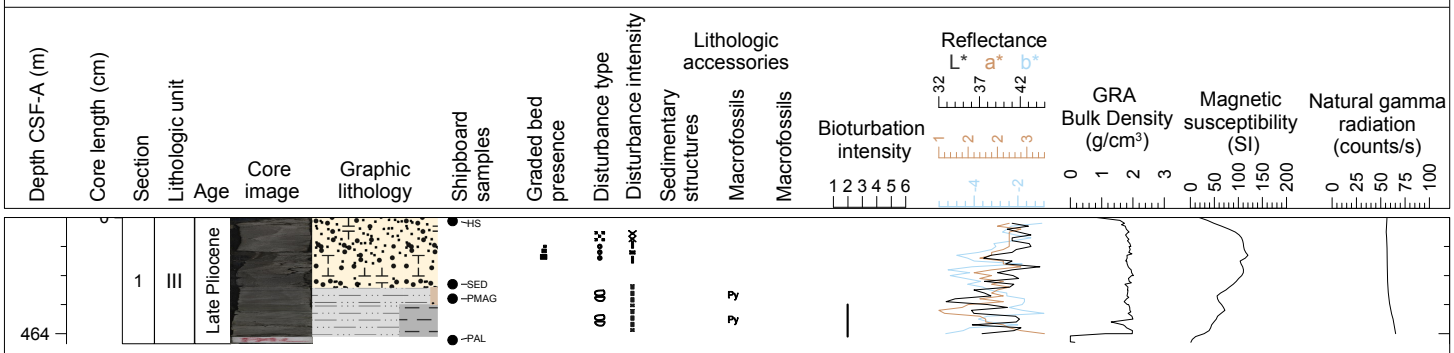
Hole 355-U1457C Core 29R, Interval 453.5-454.81 m (CSF-A)

SILTY SAND WITH CLAY, SILTY CLAYSTONE, CLAYEY SILTSTONE. Gray SILTY SAND and light brown SILTY CLAYSTONE are the major lithologies. The thickly bedded SILTY SANDSTONE dominates in upper part of the core and is rich in mica and with CLAYSTONE chunks. The SILTY SAND shows sharp erosive contact with underlying SILTY CLAYSTONE. The SILTY CLAYSTONE dominates in the lower part of the core and is interbedded with very thin (<1 cm) CLAYEY SILTSTONE beds. The SILTY SANDSTONE comprises <50 % of the core.



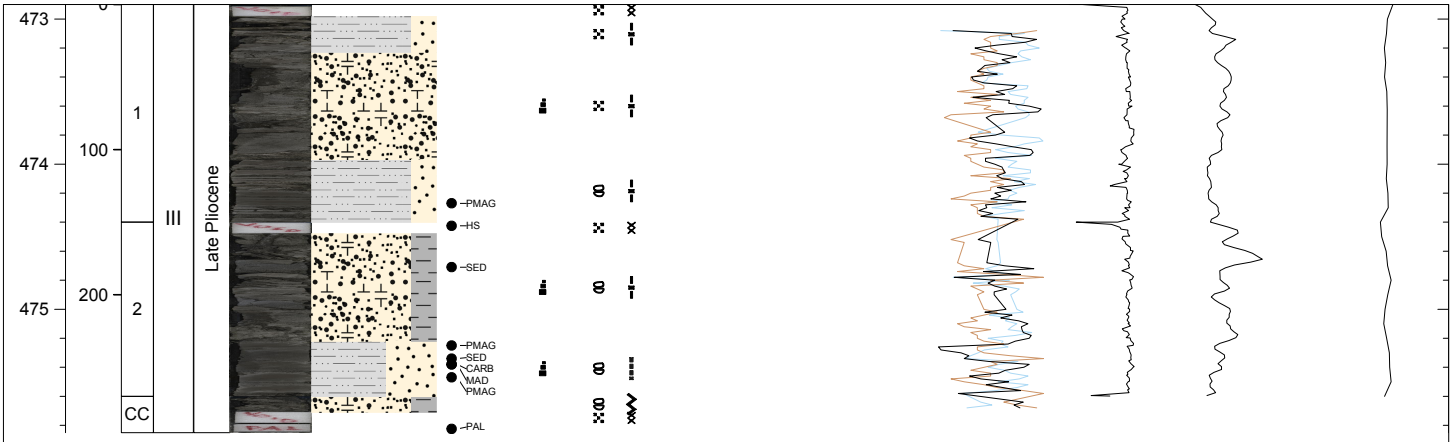
Hole 355-U1457C Core 30R, Interval 463.2-464.07 m (CSF-A)

SILTY SANDSTONE WITH CLAY, SILTY CLAYSTONE, CLAYSTONE WITH NANNOFOSSILS. Gray SILTY SANDSTONE and light brown SILTY CLAYSTONE are the major lithologies. The thickly bedded SILTY SANDSTONE dominates the upper part of the core and is rich in mica and CLAYSTONE clasts. SILTY CLAYSTONE dominates the lower part of the core, interbedded with very thin (<1 cm) beds of CLAYEY SILTSTONE. The thin bedded (<5 cm) CLAYSTONE WITH NANNOFOSSILS is slightly bioturbated. Tiny dispersed pyrite grains are often found in the core. SILTY SANDSTONE comprises <50 % of the core.



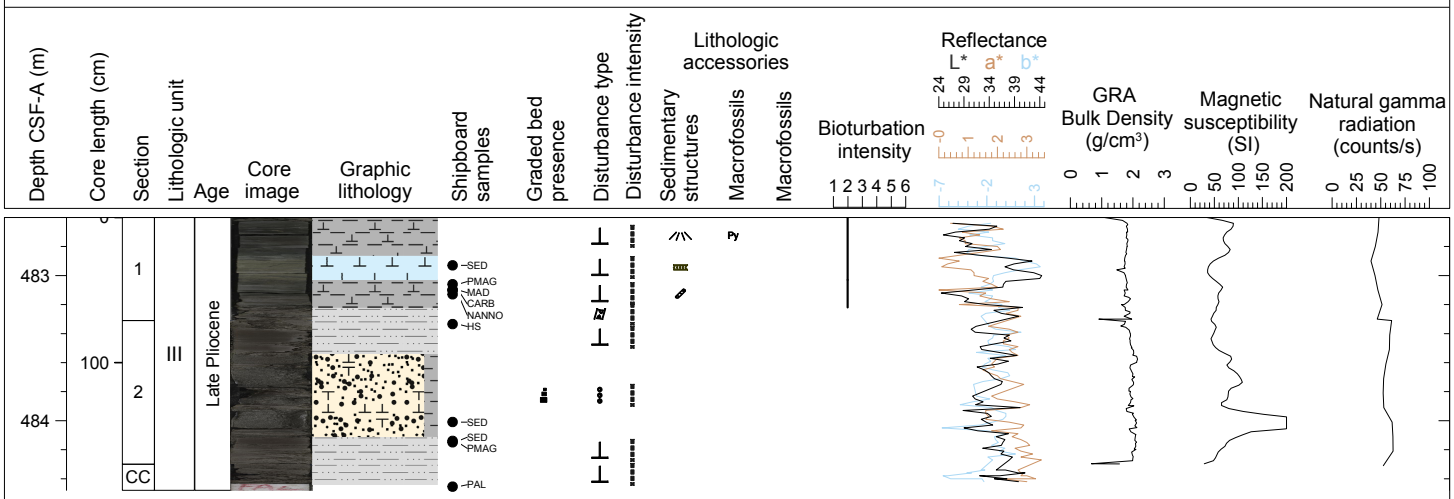
Hole 355-U1457C Core 31R, Interval 472.9-475.85 m (CSF-A)

SILTY CLAYSTONE, CLAYEY SILTSTONE, SILTY SANDSTONE. Light brownish gray SILTY CLAYSTONE and dark gray SILTY SANDSTONE are the major lithologies. The SILTY CLAYSTONE is interbedded with thin (<1 cm) CLAYEY SILTSTONE intervals. In the lower part of the core, SILTY CLAYSTONE is interbedded with thicker (<3 cm) SILTY SANDSTONE intervals. SILTY SANDSTONE contains clay clasts and is interbedded with thin SILTY CLAYSTONE beds. SILTY SANDSTONE contains mica grains and shows erosive contact with the underlying SILTY CLAYSTONE. The SILTY SANDSTONE beds are semi-consolidated and comprise <50 % of the core.



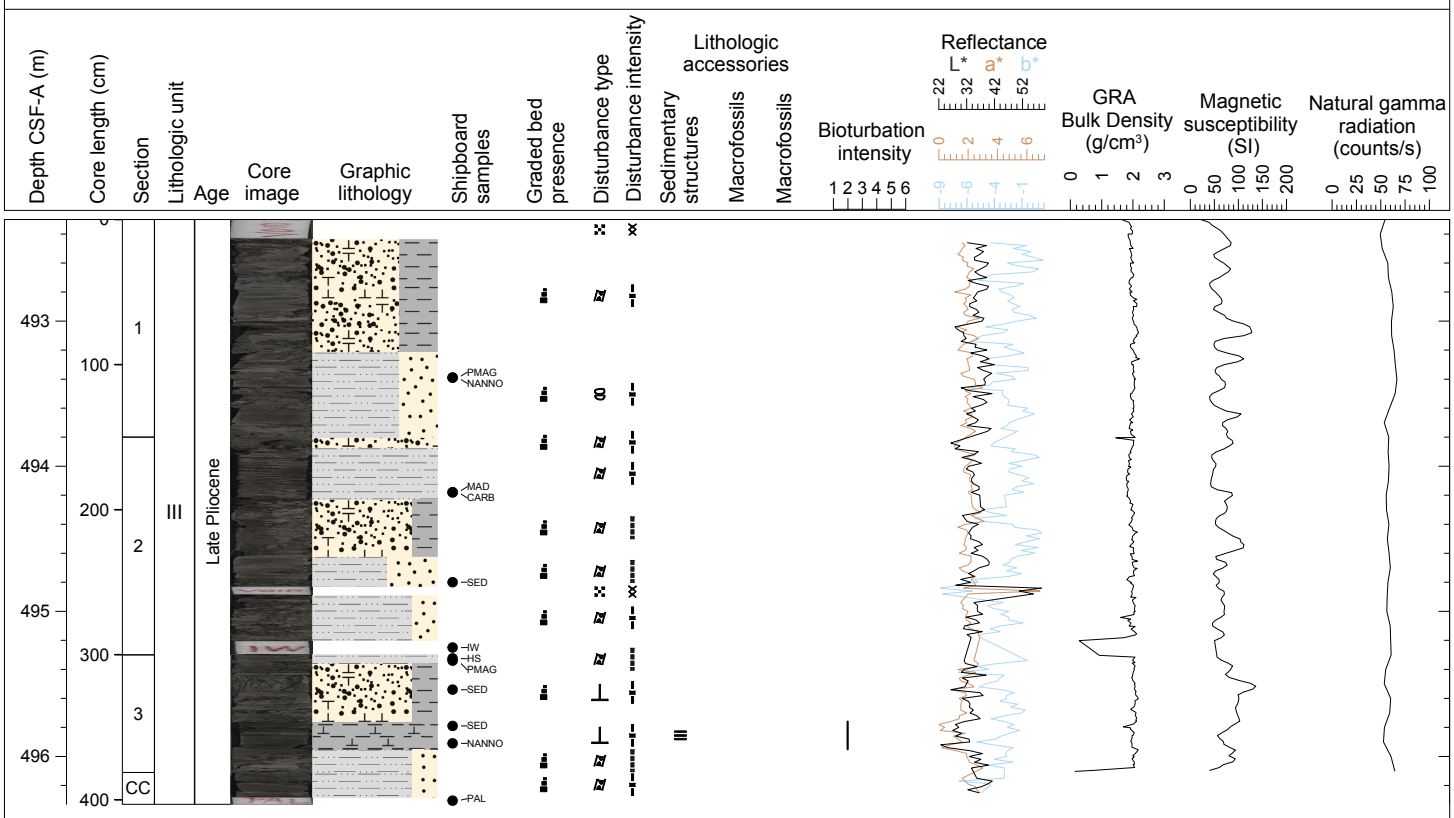
Hole 355-U1457C Core 32R, Interval 482.6-484.48 m (CSF-A)

NANNOFOSSIL-RICH CLAYSTONE, NANNOFOSSIL CHALK, SILTY CLAYSTONE, SILTY SANDSTONE. The light greenish to light brownish NANNOFOSSIL-RICH CLAYSTONE, brownish SILTY CLAYSTONE and dark gray SILTY SANDSTONE are the major lithologies. The medium bedded NANNOFOSSIL CHALK is interbedded with medium bedded NANNOFOSSIL-RICH CLAYSTONE in the upper part of the core. Greenish color banding is found in NANNOFOSSIL-RICH CLAYSTONE. Bioturbation is common in NANNOFOOSIL CHALK and NANNOFOSSIL-RICH CLAYSTONE and is dominated by burrows of Zoophycos, Chondrites and Planolites. SILTY SANDSTONE, rich in mica grains, is interbedded with thin SILTY CLAYSTONE beds. SILTY SANDSTONE has erosive basal contacts with underlying SILTY CLAYSTONE. An elongated pyrite nodule ca. 1 cm across is observed in NANNOFOSSIL-RICH CLAYSTONE .



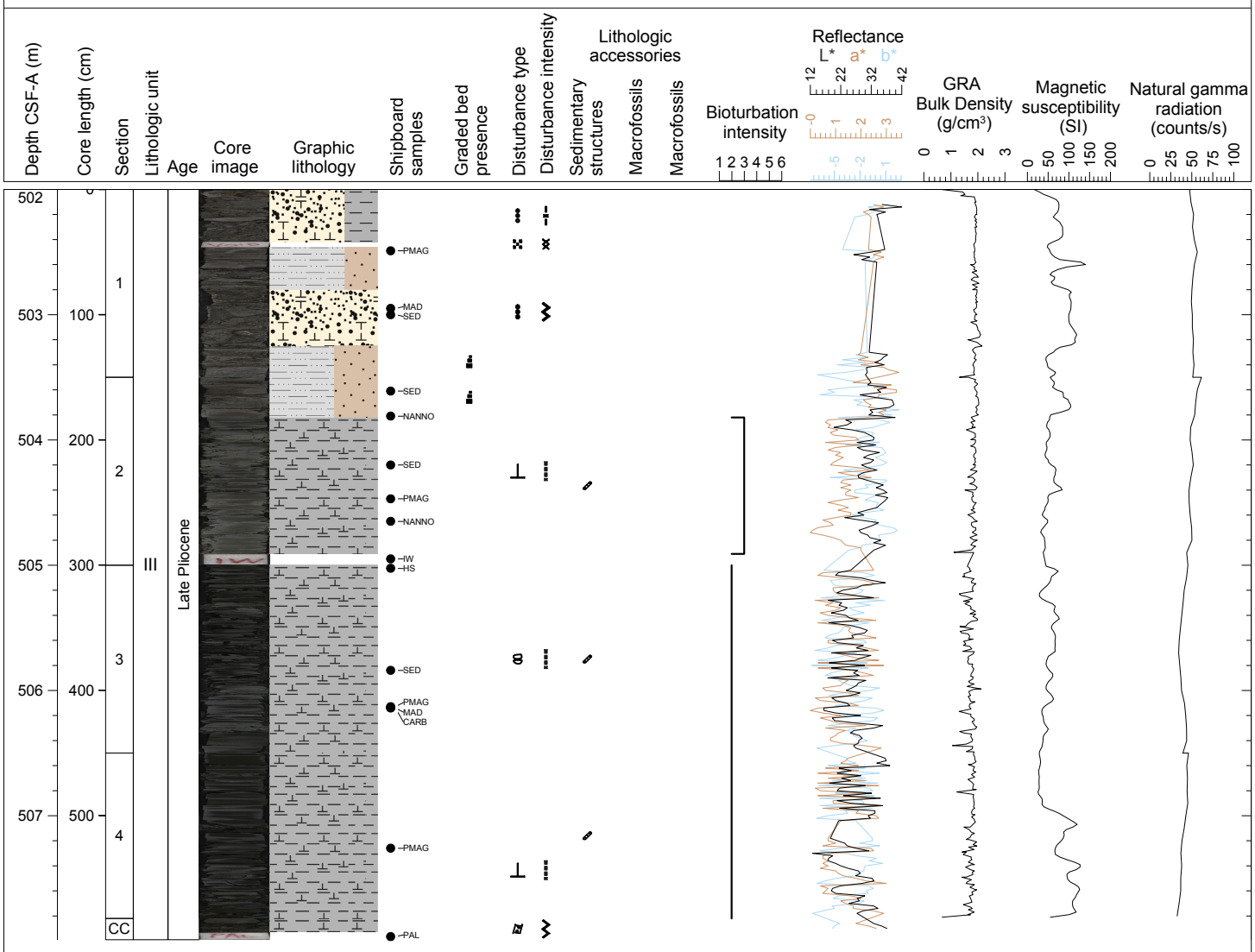
Hole 355-U1457C Core 33R, Interval 492.3-496.33 m (CSF-A)

SILTY SANDSTONE, SILTY CLAYSTONE, NANNOFOSSIL-RICH CLAYSTONE. Light brownish SILTY CLAYSTONE and dark gray SILTY SANDSTONE are the dominant lithologies. The medium bedded SILTY CLAYSTONE is interbedded with thin to medium bedded SILTY SANDSTONE. The SILTY SANDSTONE contains mica grains and is often interbedded with very thin intervals of SILTY CLAYSTONE and NANNOFOSSIL-RICH CLAYSTONE. SILTY SANDSTONE erosively overlies SILTY CLAYSTONE. Medium bedded NANNOFOSSIL-RICH CLAYSTONE contains tiny pyrite grains in Section 3. The SILTY SANDSTONE comprises <20% of the core.



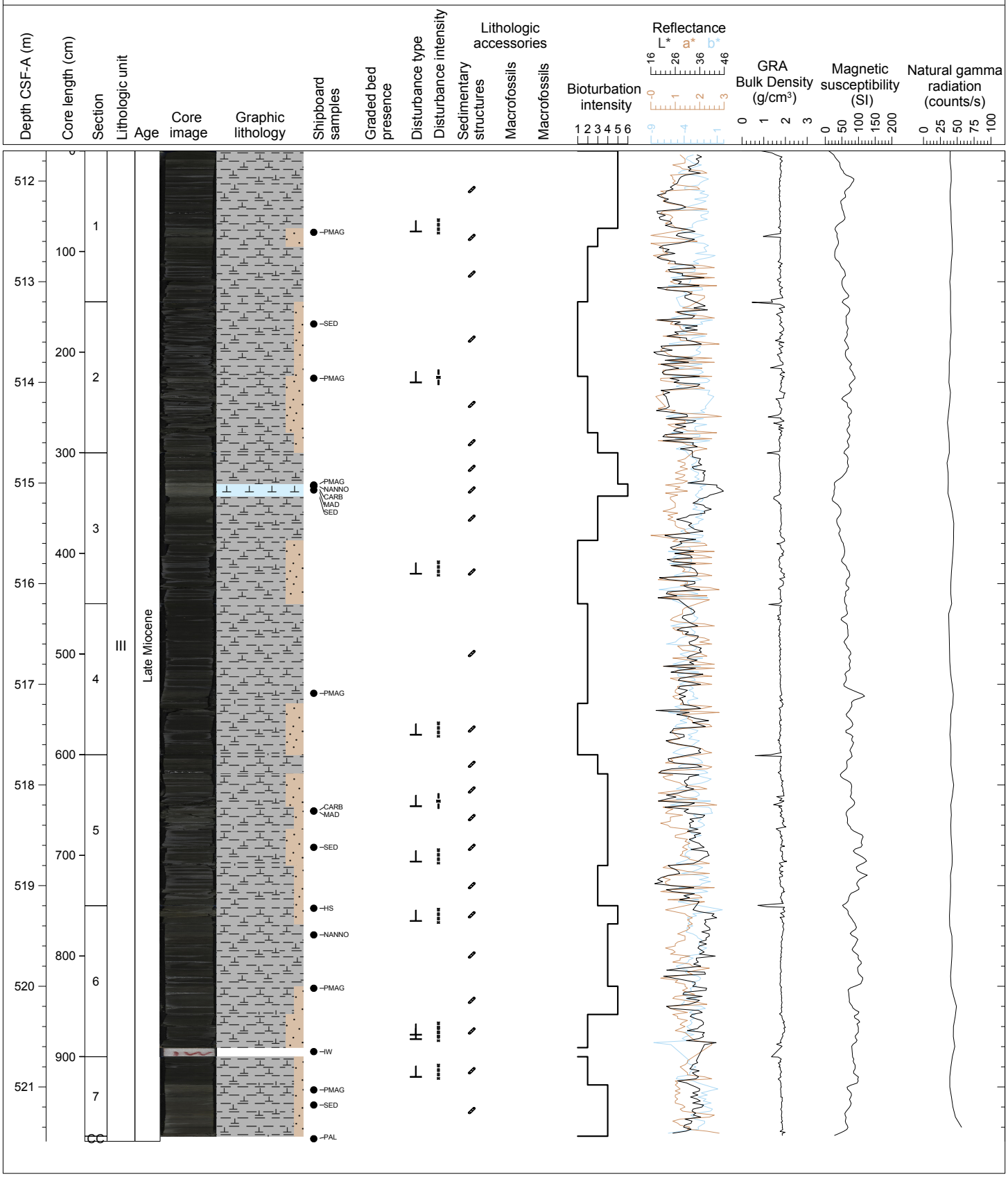
Hole 355-U1457C Core 34R, Interval 502.0-507.99 m (CSF-A)

SILTY SANDSTONE, CLAYEY SILTSTONE, NANNOFOSSIL-RICH CLAYSTONE. Gray massive SILTY SANDSTONE and dark greenish gray NANNOFOSSIL-RICH CLAYSTONE are dominant. Thin (~1 cm) or thick (<15 cm) bedded SILTY CLAYSTONE is overlain by thick (5-45 cm) SILTY SANDSTONE intervals, showing normal grading. Sandy beds show erosive sharp bases. Very thin (<1 cm) dark gray CLAYEY SILTSTONE is also rarely interbedded with SILTY SANDSTONE. NANNOFOSSIL-RICH CLAYSTONE is divided into two colors (gray and dark greenish gray). Burrows (Zoophycos, Nereites, Chondrites) are intense in massive NANNOFOSSIL-RICH CLAYSTONE, but Zoophycos is dominant.



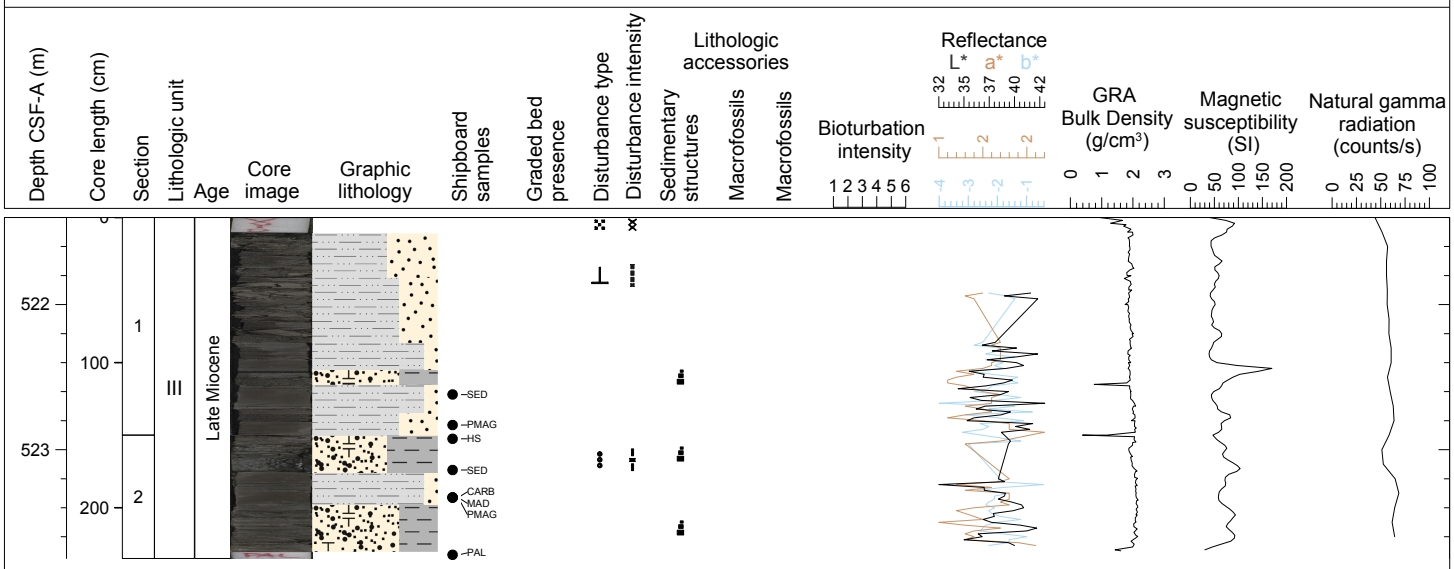
Hole 355-U1457C Core 35R, Interval 511.7-521.54 m (CSF-A)

CLAYEY SILTSTONE, SANDY SILTSTONE, NANNOFOSSIL-RICH CLAYSTONE, NANNOFOSSIL CHALK. Dark greenish gray, dark gray, and gray NANNOFOSSIL-RICH CLAYSTONE is the dominant lithology. 10 cm thick light gray NANNOFOSSIL CHALK beds are interleaved with dark gray NANNOFOSSIL-RICH CLAYSTONE in Section 3. Thin (<1 cm) dark gray CLAYEY SILTSTONE and SANDY SILTSTONE beds are interbedded with dark greenish gray almost massive NANNOFOSSIL-RICH CLAYSTONE. Burrows (Zoophycos, Nereites, Chondrites) are intense, especially in gray NANNOFOSSIL-RICH CLAYSTONE. Zoophycos is particularly found in dark greenish gray NANNOFOSSIL-RICH CLAYSTONE. Pyrites (micro-concretions, ~1 cm across) are frequently observed.



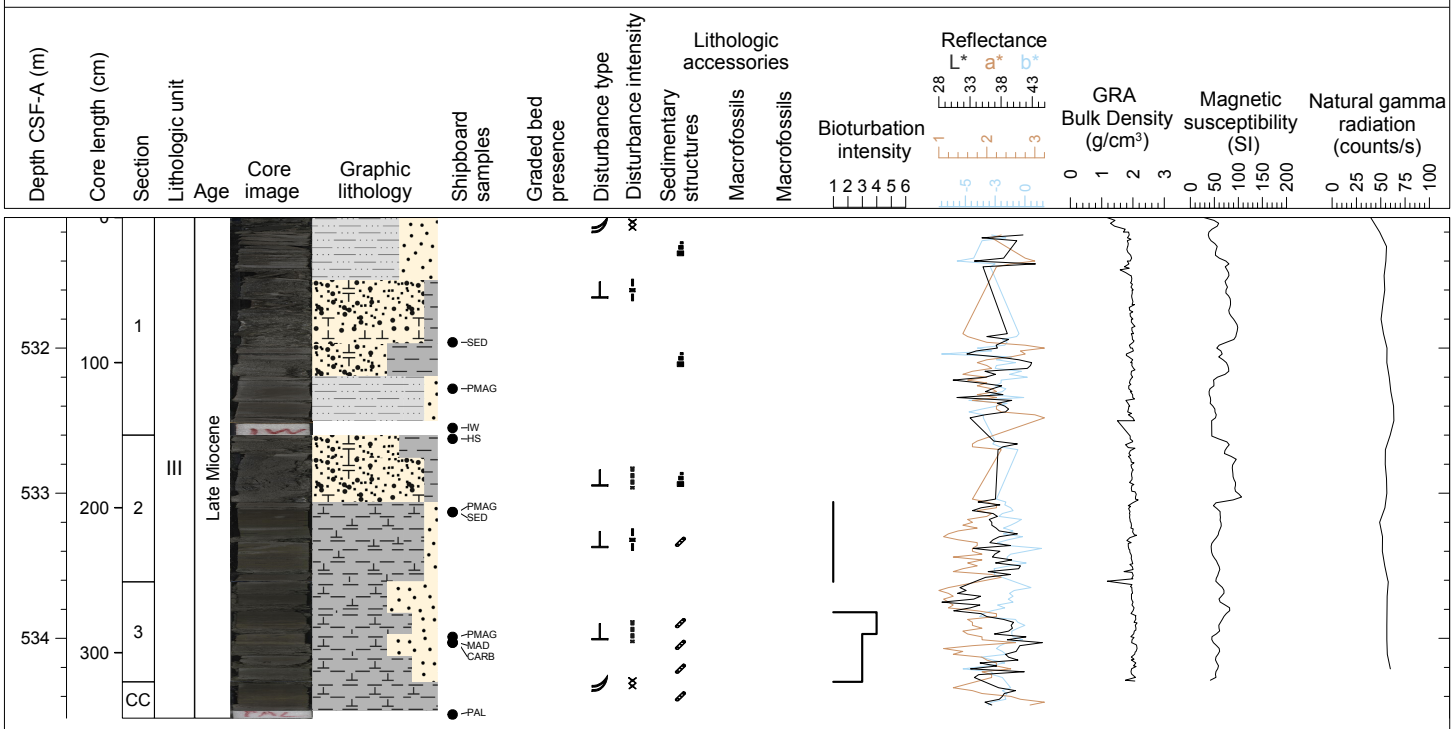
Hole 355-U1457C Core 36R, Interval 521.4-523.75 m (CSF-A)

SILTY CLAYSTONE, SILTY SANDSTONE. Brownish gray massive SILTY CLAYSTONE is the dominant lithology. Very thin (<1 cm) or thick (3-15 cm) dark brownish gray SILTY SANDSTONE intervals are interbedded with SILTY CLAYSTONE in fining upwards cycles with sharp erosive bases. SANDSTONE beds also include tiny pieces of rip-up clasts. SILTY SANDSTONE is very fine to fine grained. Mica grains are common in sands. A 1-cm-thick wood layer was seen at 105 cm in Section 1. Some thin SILTY CLAYSTONE layers contain very tiny fibrous wood particles.



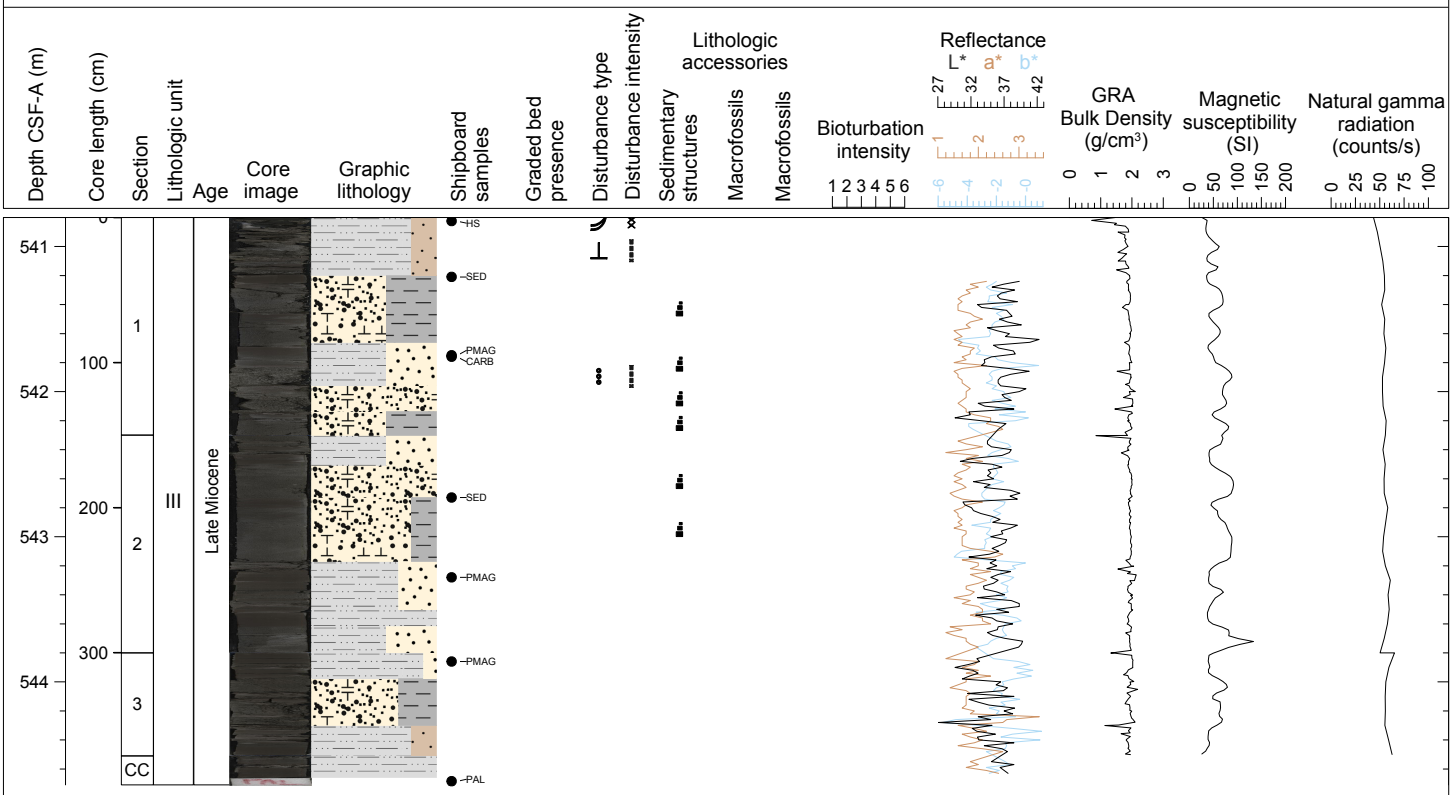
Hole 355-U1457C Core 37R, Interval 531.1-534.55 m (CSF-A)

SILTY SANDSTONE, SILTY CLAYSTONE, NANNOFOSSIL-RICH CLAYSTONE. Dark greenish gray NANNOFOSSIL-RICH CLAYSTONE is dominant, with secondary dark gray SILTY SANDSTONE. Thick (>20 cm) SILTY SANDSTONE sharply and erosively overlies thin (<3 cm) SILTY CLAYSTONE beds and is normally graded. Cycles of thin (<1 cm) SILTY SANDSTONE interbedded with SILTY CLAYSTONE are found in the lower part of Section 1. Some of these thin SANDSTONE beds contain tiny fibrous wood particles. A thick (>1 m) greenish gray NANNOFOSSIL-RICH CLAYSTONE is found in the lower part of core. It is characterized by moderate burrowing and is interbedded with thin (<1 cm) to thick (~3 cm) graded SILTY SANDSTONE beds.



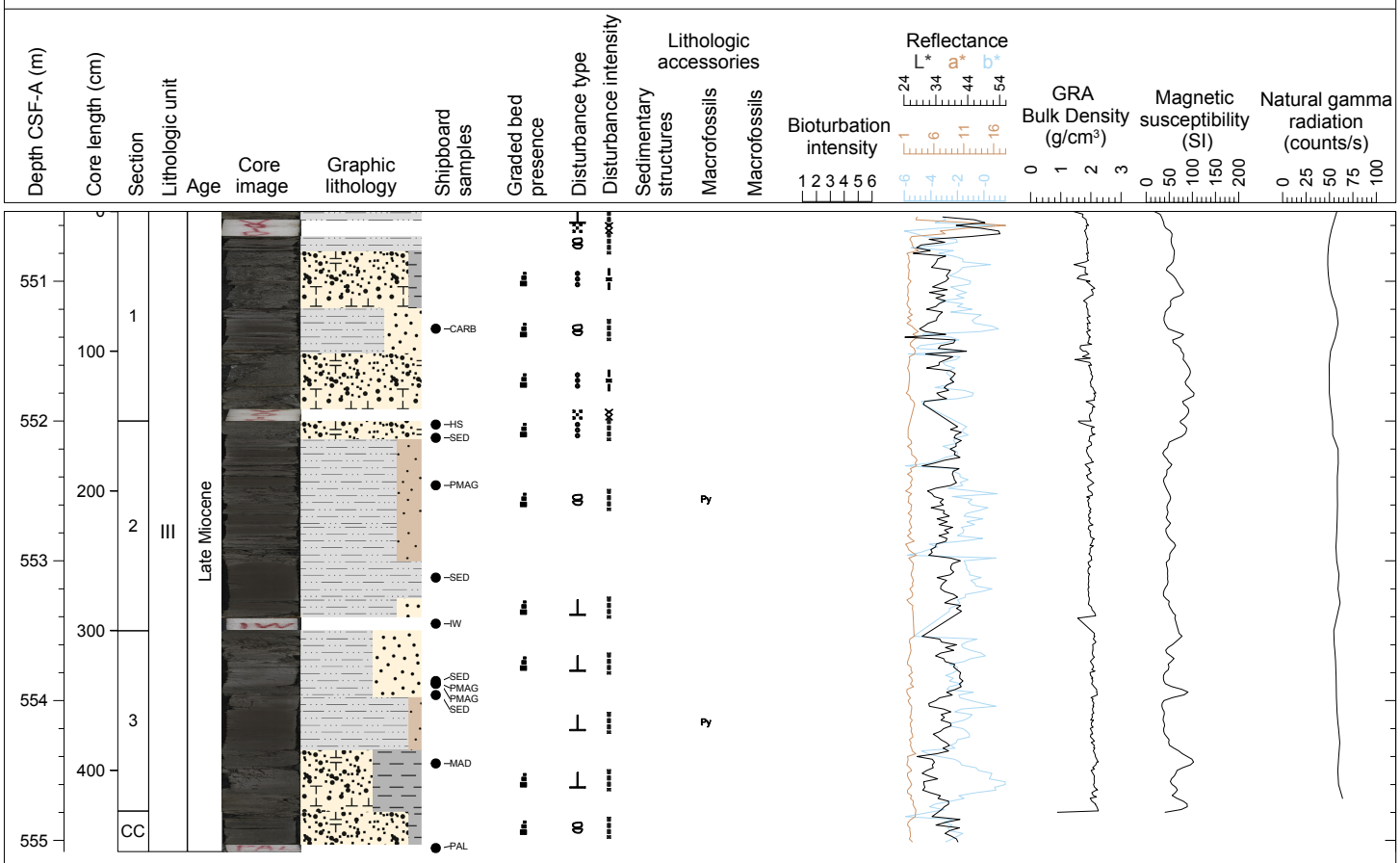
Hole 355-U1457C Core 38R, Interval 540.8-544.71 m (CSF-A)

SILTY CLAYSTONE, SILTY SANDSTONE, CLAYEY SILTSTONE. Brownish gray massive SILTY CLAYSTONE and dark gray SILTY SANDSTONE are dominant. SILTY SANDSTONE beds are normally thick (5-20 cm), and overlie thin (~5 cm) SILTY CLAYSTONE, sometimes showing the normal grading and erosive base. Sand grains are fine to medium, including large mica and biotite grains. Very thin (<1 cm) SANDSTONE laminae are interbedded with thin (2-3 cm) CLAYSTONE beds. Some boundaries from SANDSTONE up into CLAYSTONE are not gradational, but sharp. A 1 cm thick CLAYEY SILTSTONE is interbedded within CLAYSTONE, and contains dark tiny wood particles. CLAYSTONE is massive without distinct burrows being visible.



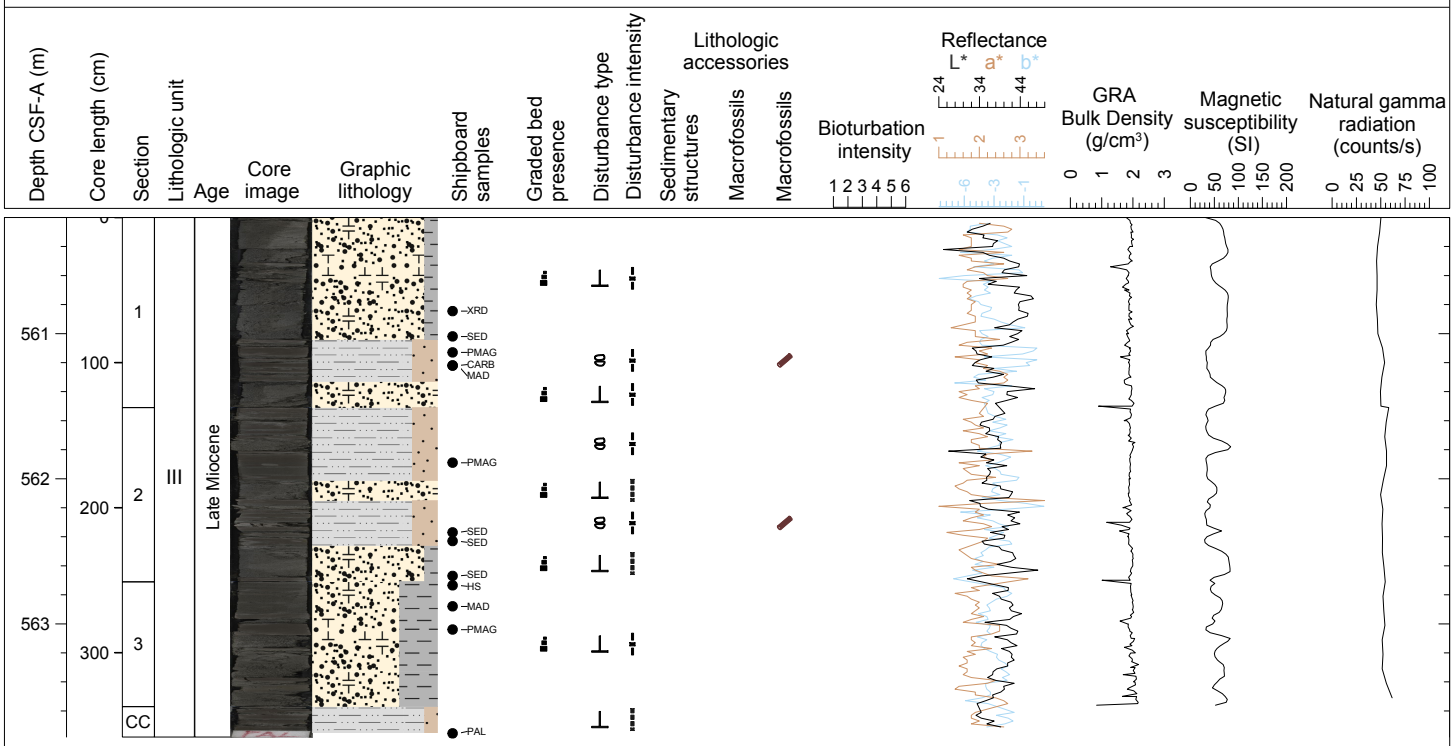
Hole 355-U1457C Core 39R, Interval 550.5-555.08 m (CSF-A)

SILTY CLAYSTONE, SILTY SANDSTONE, SANDY SILTSTONE, CLAYEY SILTSTONE. Light brown SILTY CLAYSTONE and dark gray SILTY SANDSTONE are the major lithologies. Thin bedded SILTY CLAYSTONE is mostly found interbedded with thin CLAYEY SILTSTONE, occasionally with SANDY SILTSTONE and SILTY SANDSTONE in normally graded cycles. The SILTY SANDSTONE is interbedded with thin-bedded SILTY CLAYSTONE. SILTY SANDSTONE shows erosive basal contact with underlying SILTY CLAYSTONE. Black horizontal layers and tiny pyrite grains are often observed in SILTY CLAYSTONE, while SILTY SANDSTONE are rich in medium to coarse grained mica. SILTY SANDSTONE comprises <40% of core.



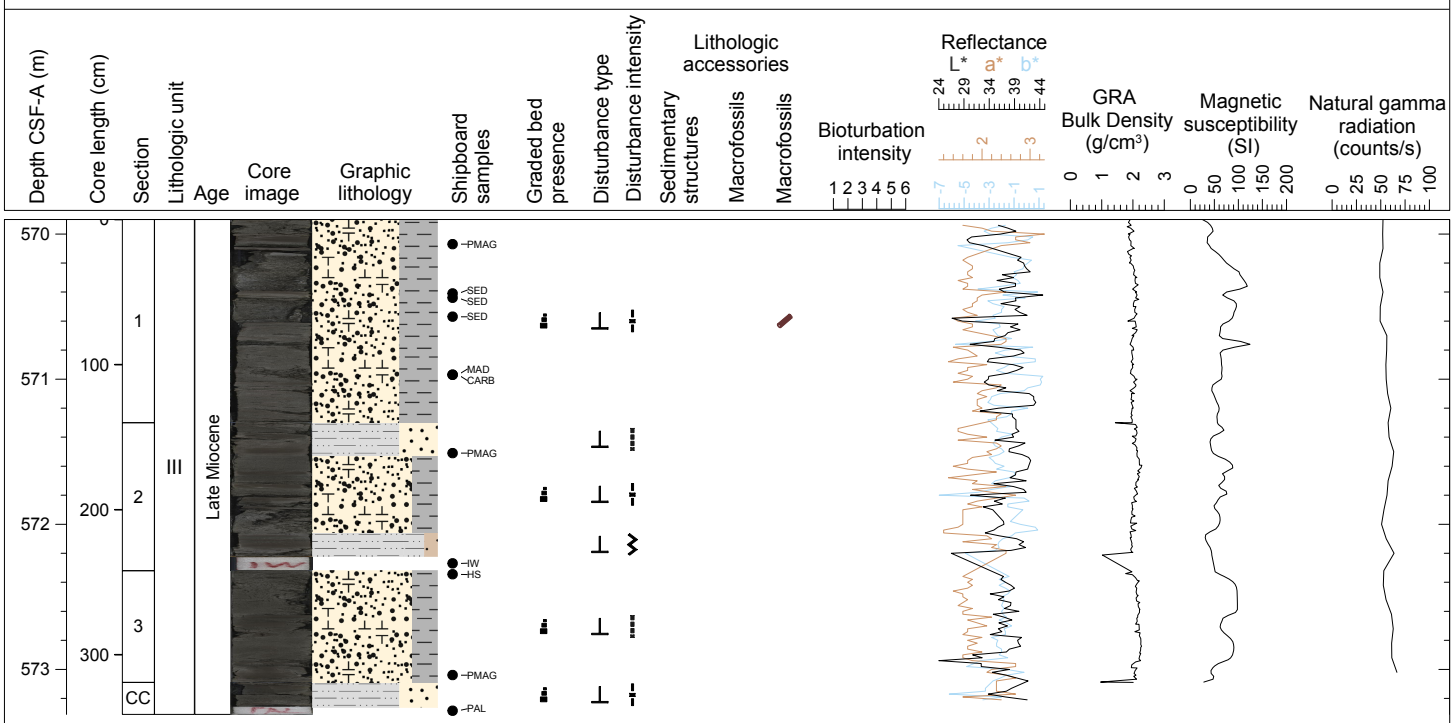
Hole 355-U1457C Core 40R, Interval 560.2-563.78 m (CSF-A)

SILTY SANDSTONE, SILTY CLAYSTONE, SANDY SILTSTONE. Dark gray SILTY SANDSTONE and light brownish SILTY CLAYSTONE are the major lithologies. SILTY SANDSTONE is medium to thickly bedded, rich in mica, and with sharp erosive bottom contacts. Sandy sediment is interbedded with thin SILTY CLAYSTONE. Brownish, thin-bedded SILTY CLAYSTONE is interbedded with very thin (<2 cm) beds of SANDY SILTYSTONE, SILTY CLAYSTONE and SILTY SANDSTONE form normally graded cycles. Dark thin layers (<1 cm) rich in wood fragments are also observed in Sections 1 and 2. The SILTY SANDSTONE comprises >50% of the core.



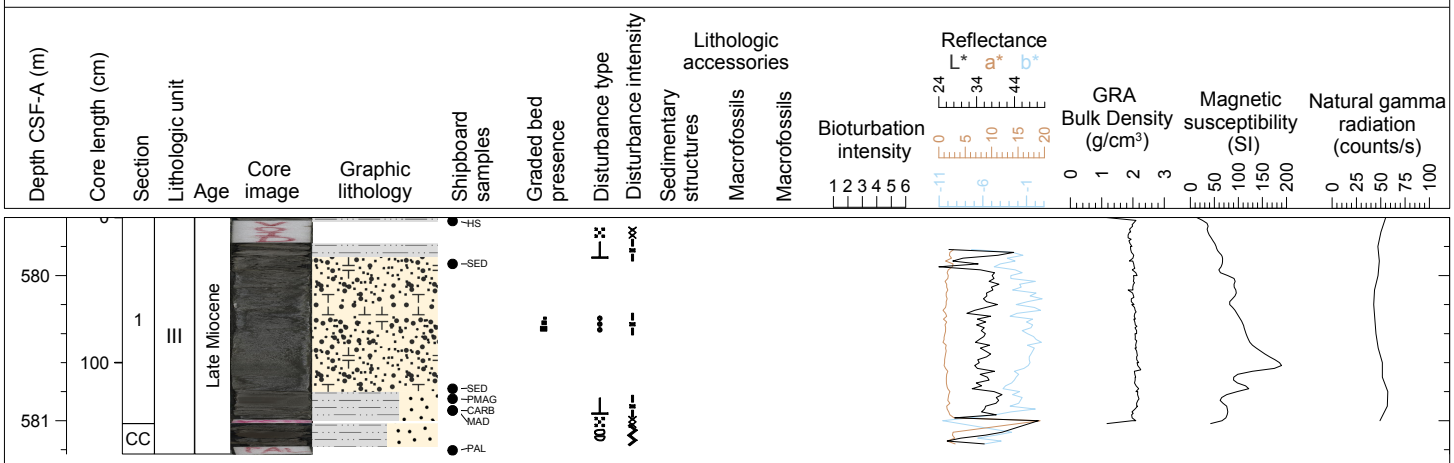
Hole 355-U1457C Core 41R, Interval 569.9-573.31 m (CSF-A)

SILTY SANDSTONE, SILTY CLAYSTONE. Dark gray medium to thickly bedded SILTY SANDSTONE, rich in medium to coarse mica flakes, is interbedded with thin to medium bedded brownish SILTY CLAYSTONE. The SILTY SANDSTONE is normally graded and shows erosive bottom contacts and gradational upper transitions. Blackish horizontal layers are occasionally observed in SILTY CLAYSTONE. Thin layers of wood fragments (~2 cm) is also observed in Section 1, 85-87 cm. SILTY SANDSTONE comprises >70% of the core.



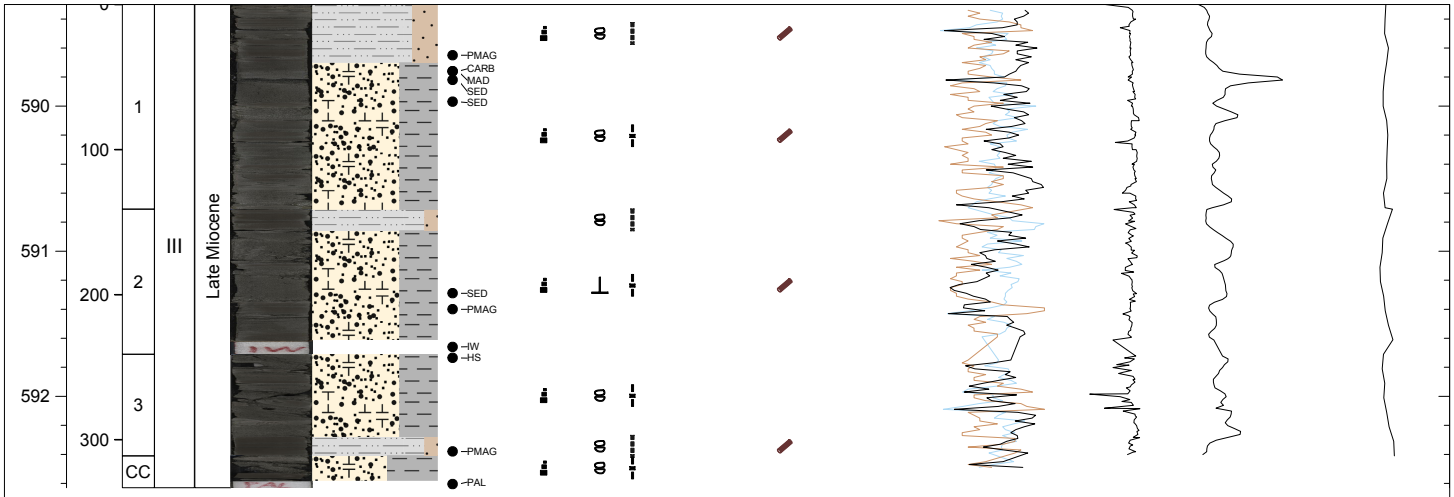
Hole 355-U1457C Core 42R, Interval 579.6-581.23 m (CSF-A)

SILTY CLAYSTONE, SILTY SAND, SILTY SANDSTONE. Dark gray SILTY SAND is the dominant lithology. The SILTY SAND top is mixed with SILTY CLAYSTONE and it is poorly consolidated. SILTY SAND, rich in mica, normally graded, shows a gradational contact with overlying SILTY CLAYSTONE, but a sharp erosive contact with underlying SILTY CLAYSTONE. Light brownish thin-bedded SILTY CLAYSTONE is interbedded with SILTY SANDSTONE in the top and bottom of the core. SILTY SAND comprises <80% of the core.



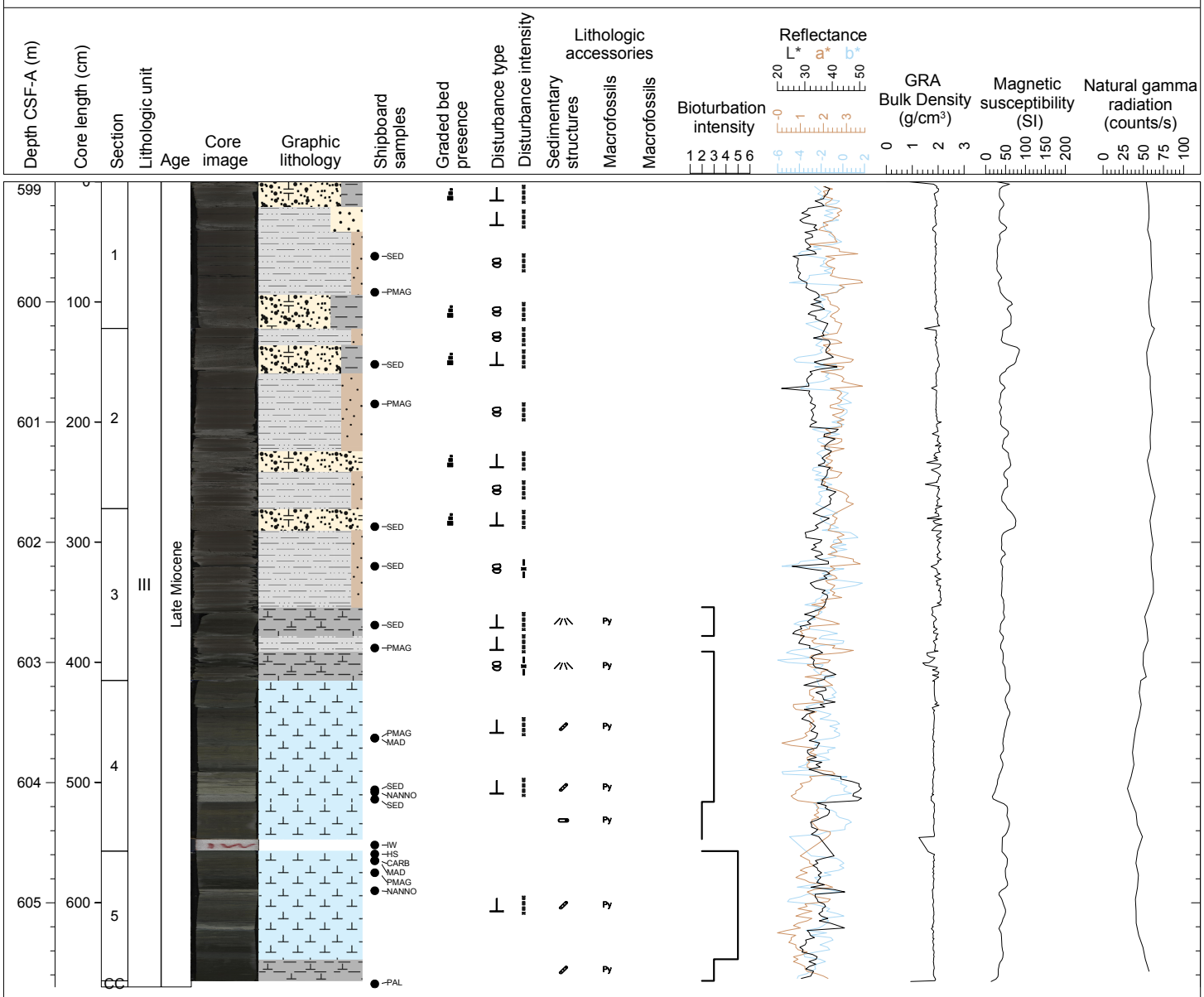
Hole 355-U1457C Core 43R, Interval 589.3-592.63 m (CSF-A)

SILTY CLAYSTONE, SILTY SANDSTONE. Dark gray, medium-bedded SILTSTONE and brownish SILTY CLAYSTONE are the major lithologies. The medium bedded SILTY SANDSTONE is interbedded with thinly bedded SILTY CLAYSTONE. SILTY SANDSTONE is normally graded, rich in mica, and shows erosive basal contacts and gradational top contacts with SILTY CLAYSTONE. The SILTY CLAYSTONE is thinly bedded and often observed with thin interbedded layers of SILTY SANDSTONE. Thin wood-rich layers are also observed. The SILTY SANDSTONE comprises <70% of the core



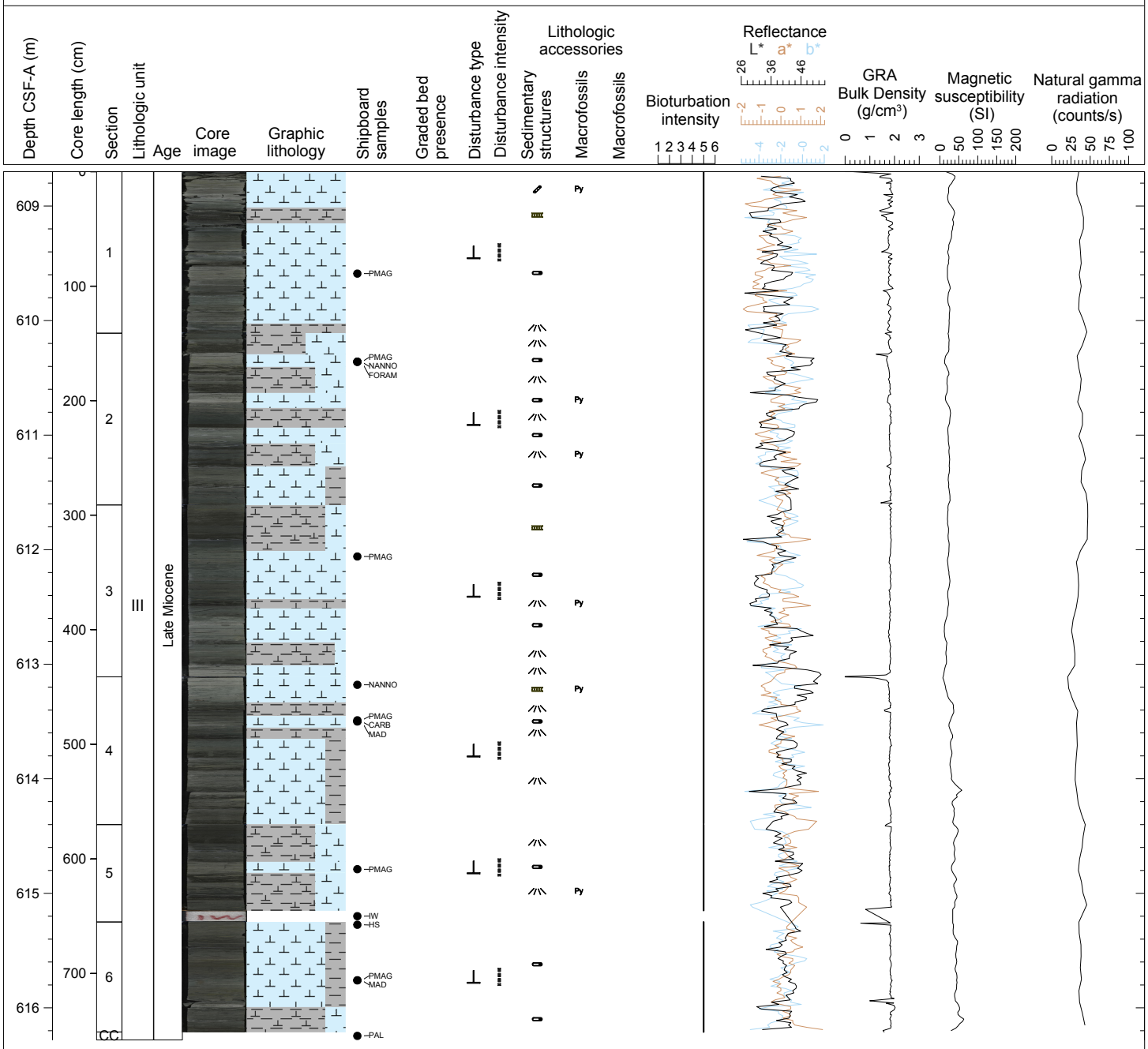
Hole 355-U1457C Core 44R, Interval 599.0-605.7 m (CSF-A)

SILTY CLAYSTONE, SILTY SANDSTONE, SANDY SILTSTONE, NANNOFOSSIL-RICH CLAYSTONE, NANNOFOSSIL CHALK, Brownish SILTY CLAYSTONE and greenish to light brownish gray NANNOFOSSIL CHALK are the dominant lithologies. Medium bedded SILTY CLAYSTONE, interbedded with very thin SANDY SILTSTONE in the upper half of the core, often shows blackish horizontal layers. The dark gray, medium-bedded SILTY SANDSTONE is interbedded with SILTY CLAYSTONE. NANNOFOSSIL-RICH CLAYSTONE and NANNOFOSSIL CHALK are highly bioturbated, with dominant Zoophycos, Chondrite and composite burrows. Skolithos was observed in NANNOFOSSIL RICH CLAYSTONE. Tiny pyrite grains are observed in NANNOFOSSIL-RICH CLAYSTONE and NANNOFOSSIL CHALK. SILTY CLAYSTONE comprises <60 % of the core.



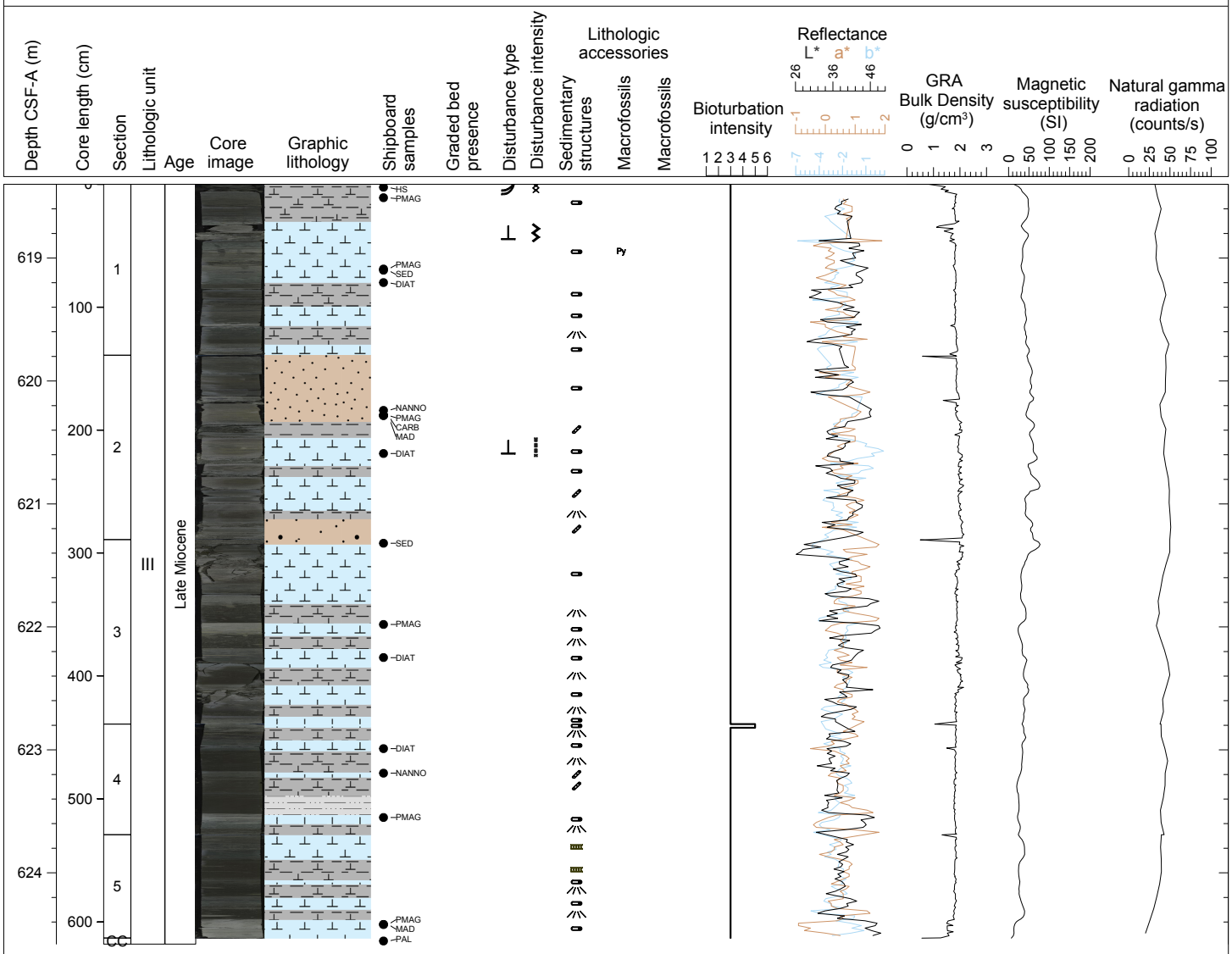
Hole 355-U1457C Core 45R, Interval 608.7-616.28 m (CSF-A)

NANNOFOSIIL CHALK , NANNOFOSSIL-RICH CLAYSTONE. White NANNOFOSSIL CHALK and light greenish NANNOFOSSIL-RICH CLAYSTONE are the major lithologies and are interbedded in graded cycles in which color shows the sharp base of the clay-rich layer grading up into the carbonate-rich sediment. The whole core is highly bioturbated, The NANNOFOSSIL-RICH CLAYSTONE is dominated by Chondrites, whereas NANNOFOSSIL CHALK is dominated with Planolites, Zoophycos and composite burrows. Dispersed pyrite graind are common. ~ 1 cm pyrite nodule is observed at Section 3, 20-21 cm.



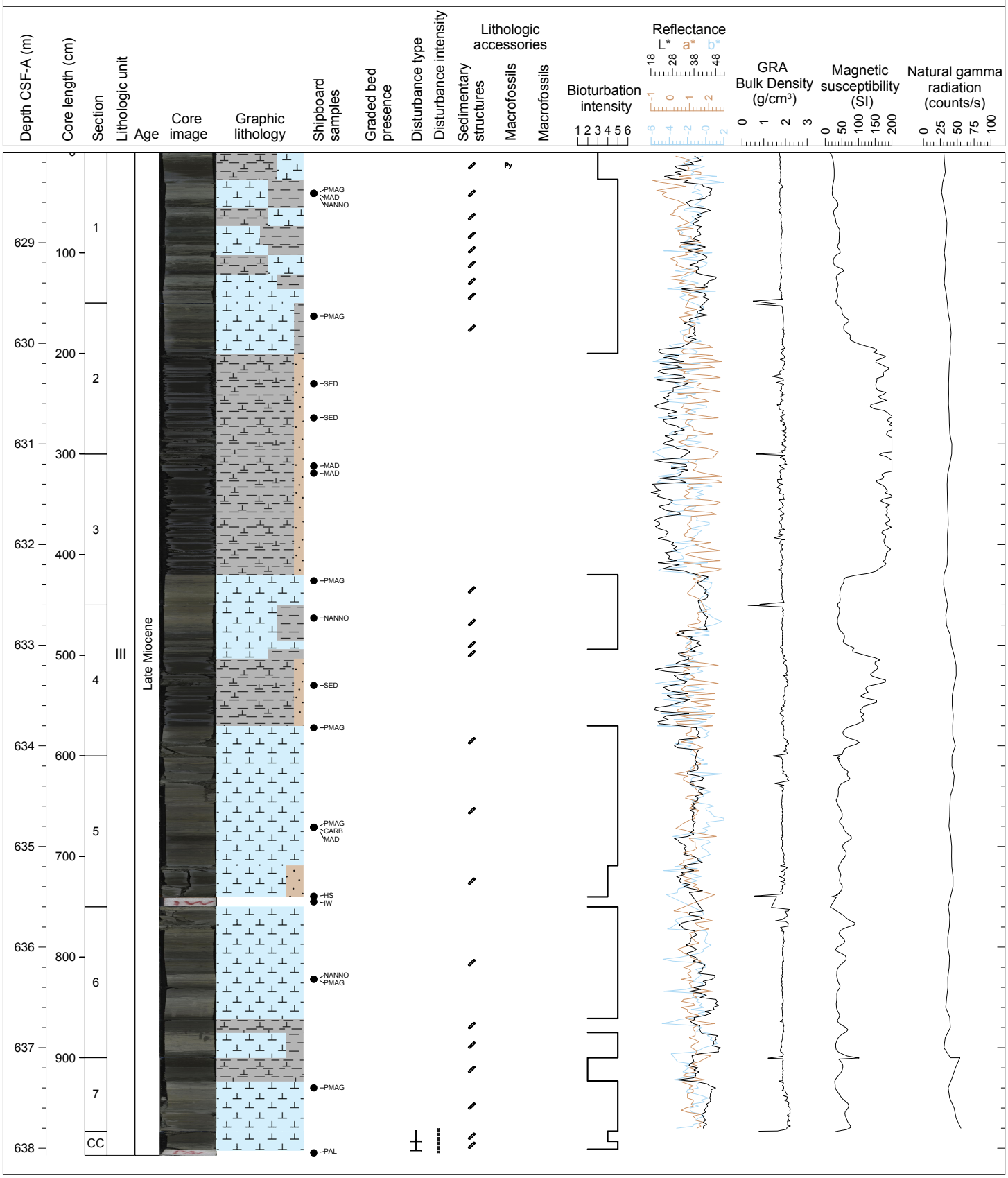
Hole 355-U1457C Core 46R, Interval 618.4-624.58 m (CSF-A)

NANNOFOSSIL CHALK, NANNOFOSSIL-RICH CLAYSTONE, SANDY SILTSTONE , SILTY CLAYSTONE. White NANNOFOSSIL CHALK, light greenish NANNOFOSSIL-RICH CLAYSTONE and brownish SILTY CLAYSTONE are the major lithologies. NANNOFOSSIL CHALK and NANNOFOSSIL-RICH CLAYSTONE are highly bioturbated, with common Planolites, Chondrites and Zoophycos. The NANNOFOSSIL CHALK shows gradational contact with the underlying NANNOFOSSIL-RICH CLAYSTONE, which has a sharp basal contact with underlying carbonate-rich top of the previous graded cycle.



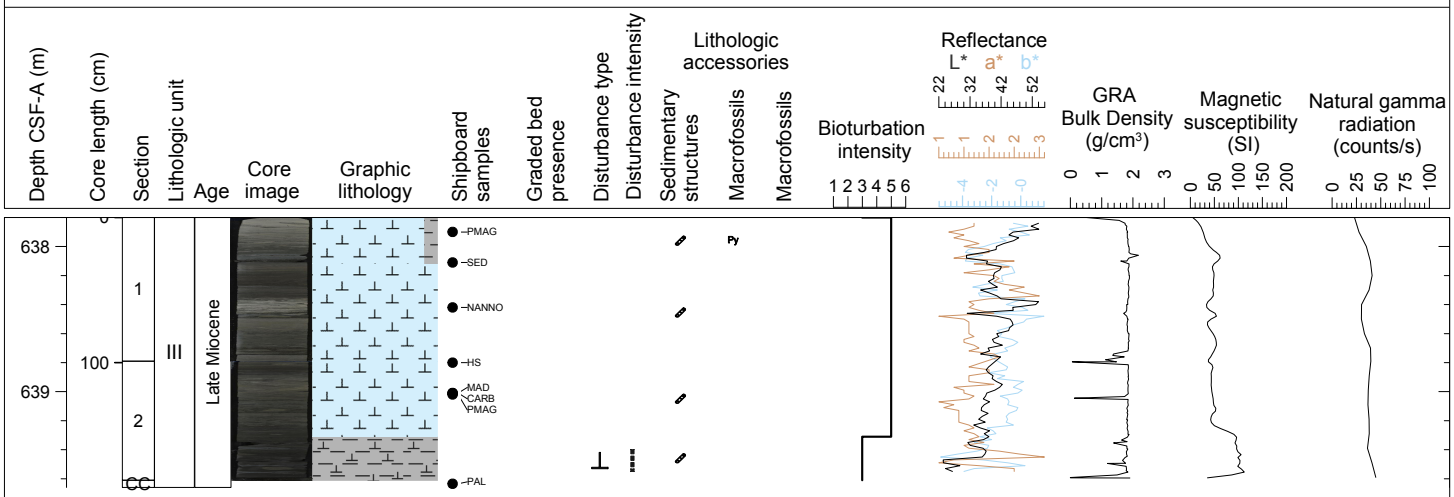
Hole 355-U1457C Core 47R, Interval 628.1-638.07 m (CSF-A)

NANNOFOSSIL CHALK, NANNOFOSSIL-RICH CLAYSTONE, SILTSTONE. Light gray, highly bioturbated NANNOFOSSIL CHALK is dominant. NANNOFOSSIL CHALK is sharply and erosively overlain by bioturbated or massive NANNOFOSSIL-RICH CLAYSTONE. A thick (~2 m) layer is marked by interbeds of dark gray NANNOFOSSIL-RICH CLAYSTONE and SILTSTONE within NANNOFOSSIL CHALK. NANNOFOSSIL CLAYSTONE layers are 2-5 cm thick and are overlain by ~1 cm SILTSTONE beds. Thin SILTSTONE beds preserve very thin parallel laminations. Burrows include Skolithos, Nereites, Zoophycos, and Chondrites. Pyrite is seen at Section 1, 35 cm and Section 3, 64 cm.



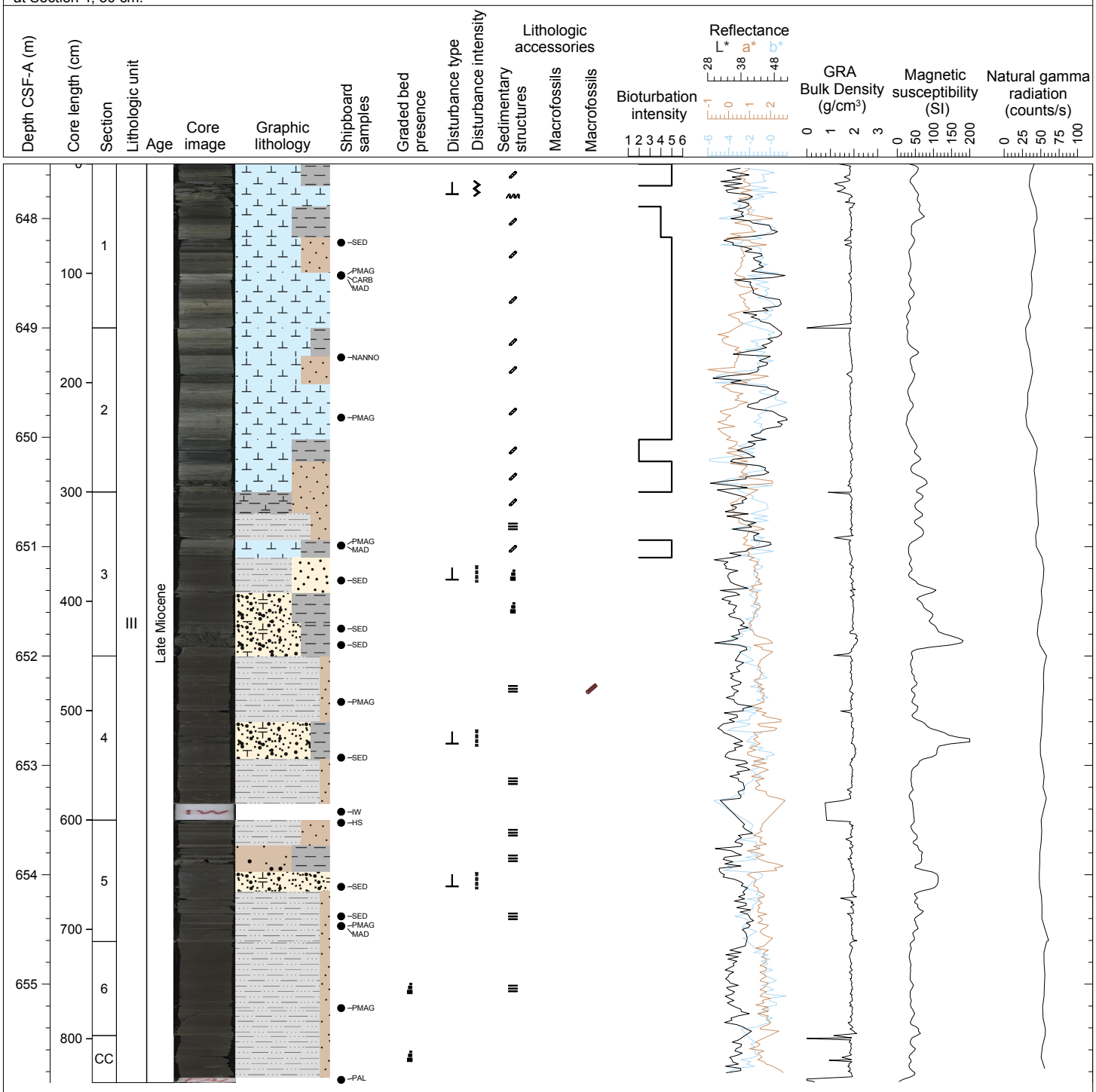
Hole 355-U1457C Core 48R, Interval 637.8-639.66 m (CSF-A)

NANNOFOSSIL CHALK, NANNOFOSSIL-RICH CLAYSTONE. Light gray or greenish gray NANNOFOSSIL CHALK is dominant and interbedded with more clay-rich intervals with gradational boundaries. Bioturbation is strong and burrows are diverse and include Zoophycos, Chondrites and Nereites. A 1 cm thick gray NANNOFOSSIL-RICH CLAYSTONE is interbedded with NANNOFOSSIL CHALK, showing an erosive boundary at the base of the clay-rich layer. Pyrite micro-nodules are seen at Section 1, 26 cm.



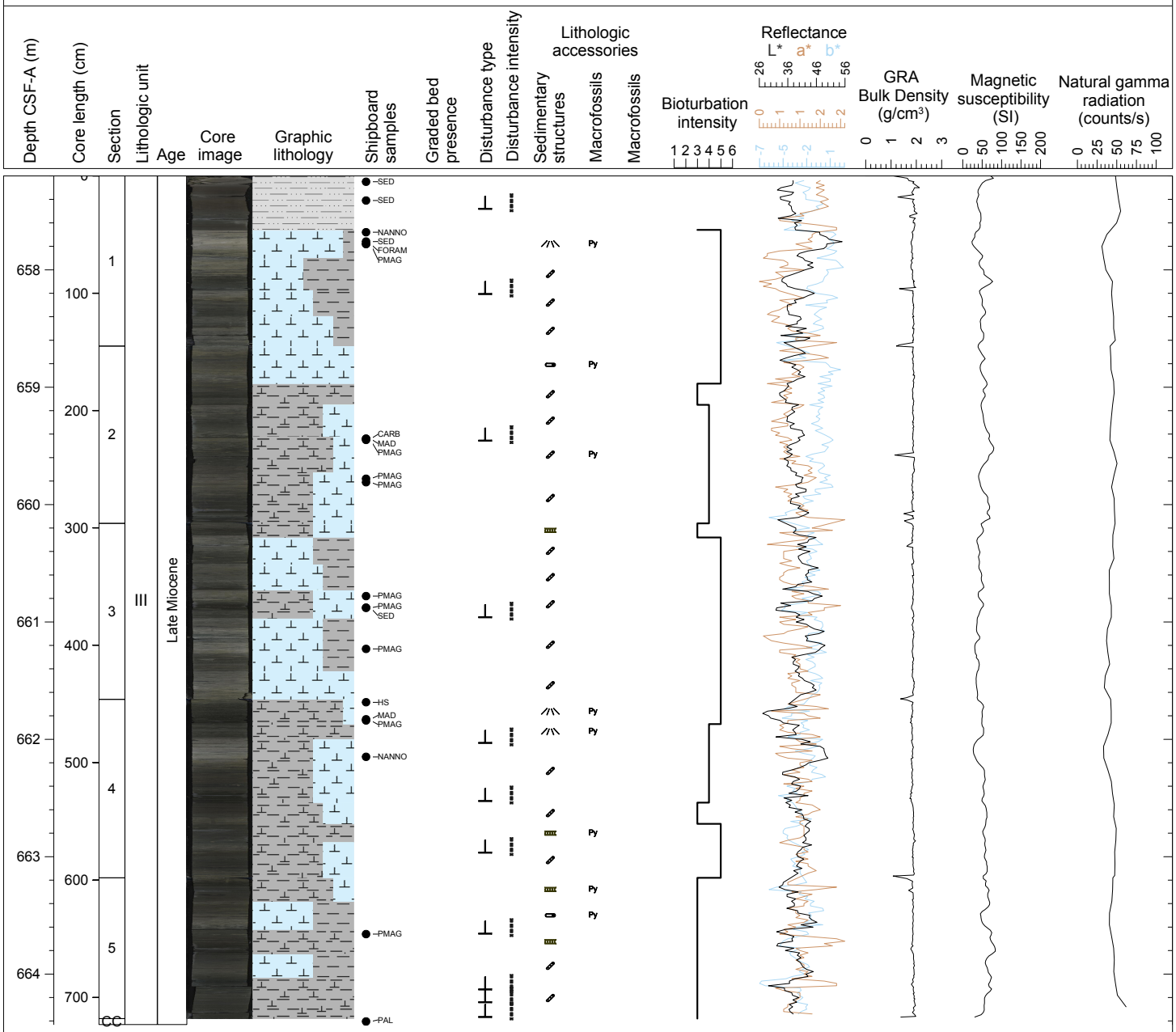
Hole 355-U1457C Core 49R, Interval 647.5-655.9 m (CSF-A)

NANNOFOSSIL CHALK, NANNOFOSSIL-RICH CLAYSTONE, SILTSTONE, SILTY CLAYSTONE, SILTY SANDSTONE. Light gray, highly bioturbated NANNOFOSSIL CHALK, dark gray, less bioturbated NANNOFOSSIL-RICH CLAYSTONE, and brown, massive SILTY CLAYSTONE are the main lithologies. Dark gray NANNOFOSSIL-RICH CLAYSTONE is interbedded with light gray NANNOFOSSIL CHALK in a series of graded cycles. Burrows include Zoophycos, Skolithos, and Chondrites, Dark brown thick (~ 20 cm) massive SILTY SANDSTONE is interbedded with brownish gray SILTY CLAYSTONE. This thick SANDSTONE contains clay rip-ups in its upper parts. A very thin (<1 cm) SILTSTONE is also interbedded with SILTY CLAYSTONE. Thin, normally graded SILTSTONE layers with erosive bases show very thin (~1 mm) parallel laminated laminae and contain tiny wood fragment particles. A larger wood fragment is seen at Section 4, 50 cm.



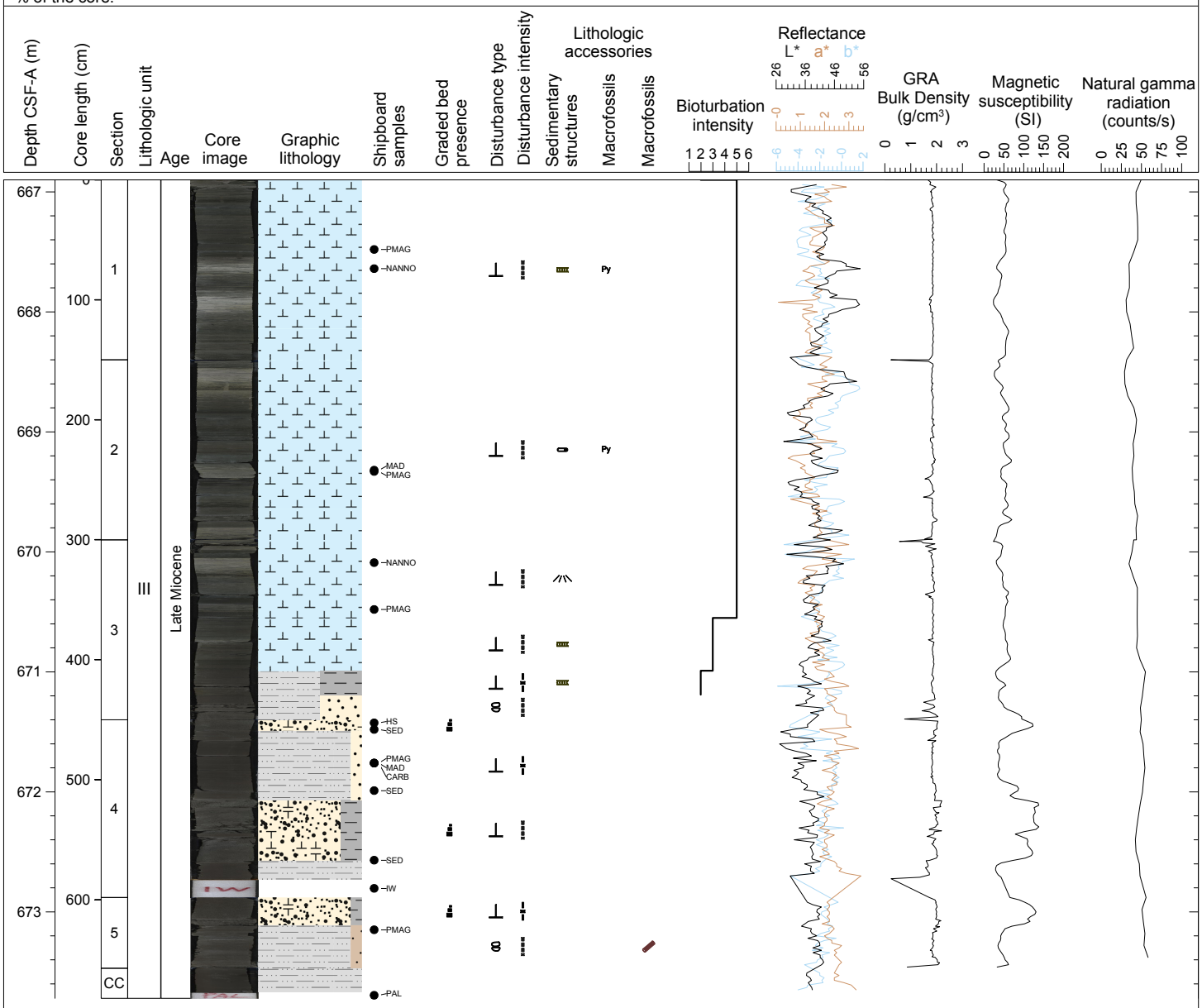
Hole 355-U1457C Core 50R, Interval 657.2-664.43 m (CSF-A)

NANNOFOSSIL CHALK, NANNOFOSSIL-RICH CLAYSTONE. SILTY CLAYSTONE. Light gray, highly bioturbated NANNOFOSSIL CHALK and dark greenish gray, less bioturbated NANNOFOSSIL-RICH CLAYSTONE are dominant. These two lithologies overlies a 45 cm thick massive, gray SILTY CLAYSTONE. The contact between the SILTY CLAYSTONE and NANNOFOSSIL CHALK is sharply erosive. NANNOFOSSIL CHALK is overlain by NANNOFOSSIL-RICH CLAYSTONE. These interbeds are repeated in cycles with different thicknesses (30-70 cm). The basal contact of each cycle is normally planar and sharp. NANNOFOSSIL CHALK is dominated by Chondrites and Zoophycos burrows, while Planolites and composite burrows are dominated by white NANNOFOSSIL CHALK. Skolithos is also observed. <2 cm pyrite nodules are common.



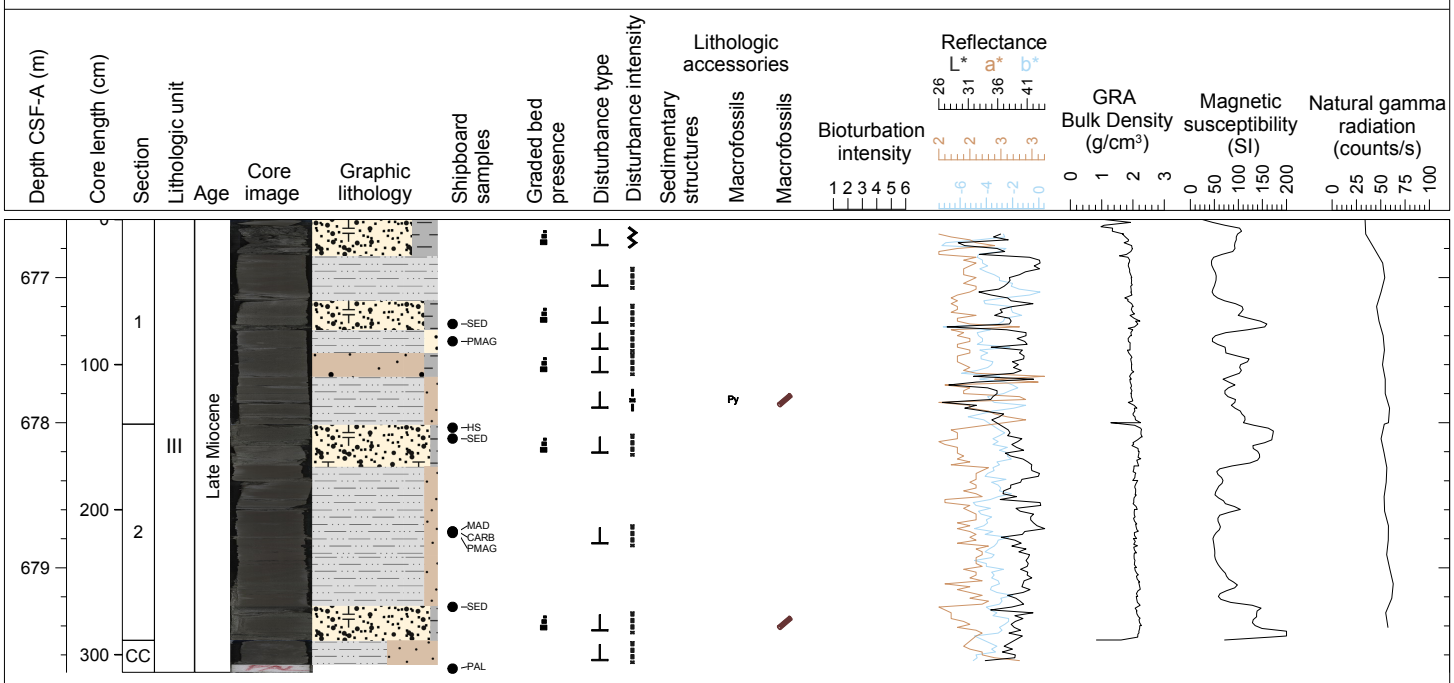
Hole 355-U1457C Core 51R, Interval 666.9-673.72 m (CSF-A)

NANNOFOSSIL CHALK, NANNOFOSSIL-RICH CLAYSTONE, SILTY CLAYSTONE, SILTY SANDSTONE. Greenish to light brownish and white NANNOFOSSIL CHALK, light brownish SILTY CLAYSTONE and gray SILTY SANDSTONE are the major lithologies. Greenish, thin-bedded NANNOFOSSIL CHALK WITH CLAY shows sharp basal boundaries overlying NANNOFOSSIL CHALK. Thin-bedded NANNOFOSSIL CHALK is rich in foraminifers in Section 2 (98-100 cm). Thin bedded brownish SILTY CLAYSTONE is interbedded with thin-bedded SILTY SANDSTONE in the lower part of the core in normally graded cycles. Bioturbation is intense within NANNOFOSSIL CHALK, whereas green NANNOFOSSIL CHALK WITH CLAY is dominated by Chondrites. Common burrows include Zoophycos, Chondrites, Planolites and composite burrows. Vertical Skolithos forms are also observed. SILTY CLAYSTONE and SILTY SANDSTONE together comprises <50 % of the core.



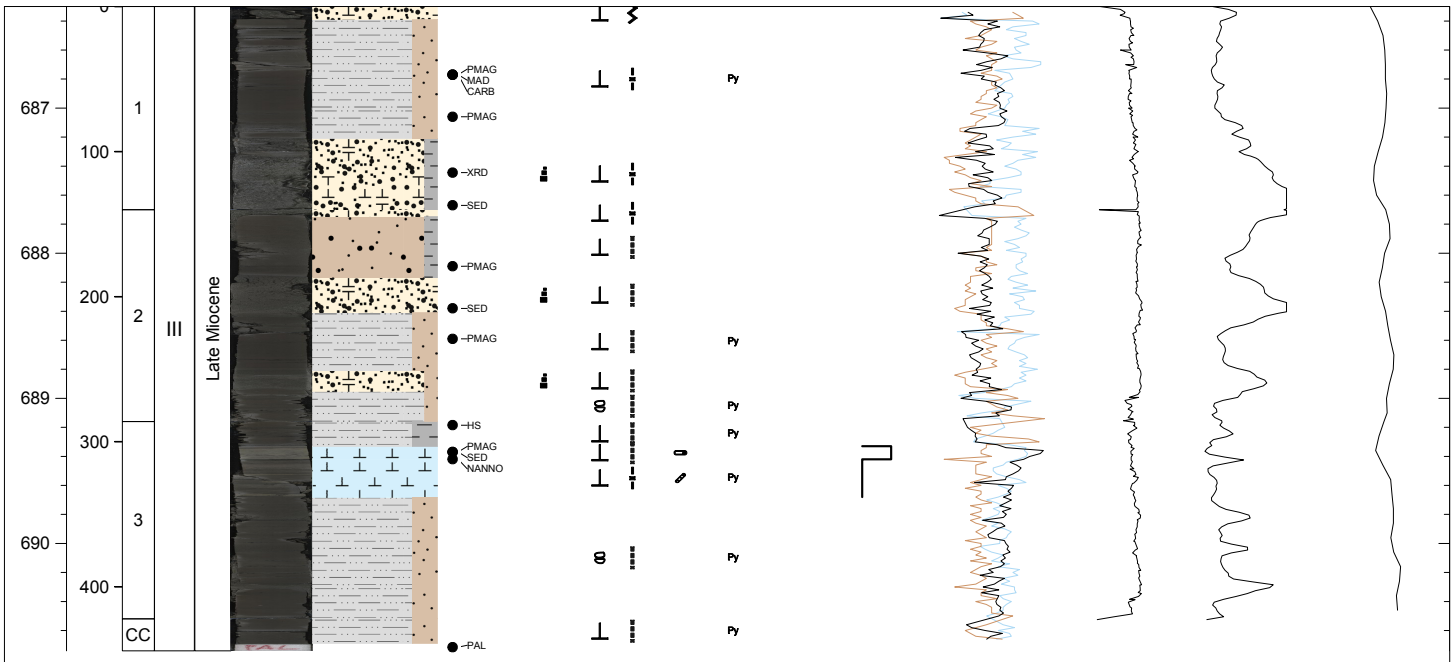
Hole 355-U1457C Core 52R, Interval 676.6-679.72 m (CSF-A)

SILTY CLAYSTONE, SILTY SANDSTONE, SANDY SILTSTONE. Light brownish gray, medium-bedded SILTY CLAYSTONE, interbedded with thin SANDY SILTSTONE and dark gray SILTY SANDSTONE are the dominant lithologies. Thin to medium bedded SILTY SANDSTONE is interleaved with thin SILTY CLAYSTONE layers and contains clay rip-ups. SILTY SANDSTONE and SANDY SILTSTONE both normally graded and are found with erosive, sharp basal boundaries. SILTY CLAYSTONE occasionally shows gradation changes with underlying SANDY SILTSTONE. Black horizontal lines and black spots of pyrite are found in SILTY CLAYSTONE. Layers and patches of wood fragments are also observed in the core. SILTY SANDSTONE comprise <40% of the core.



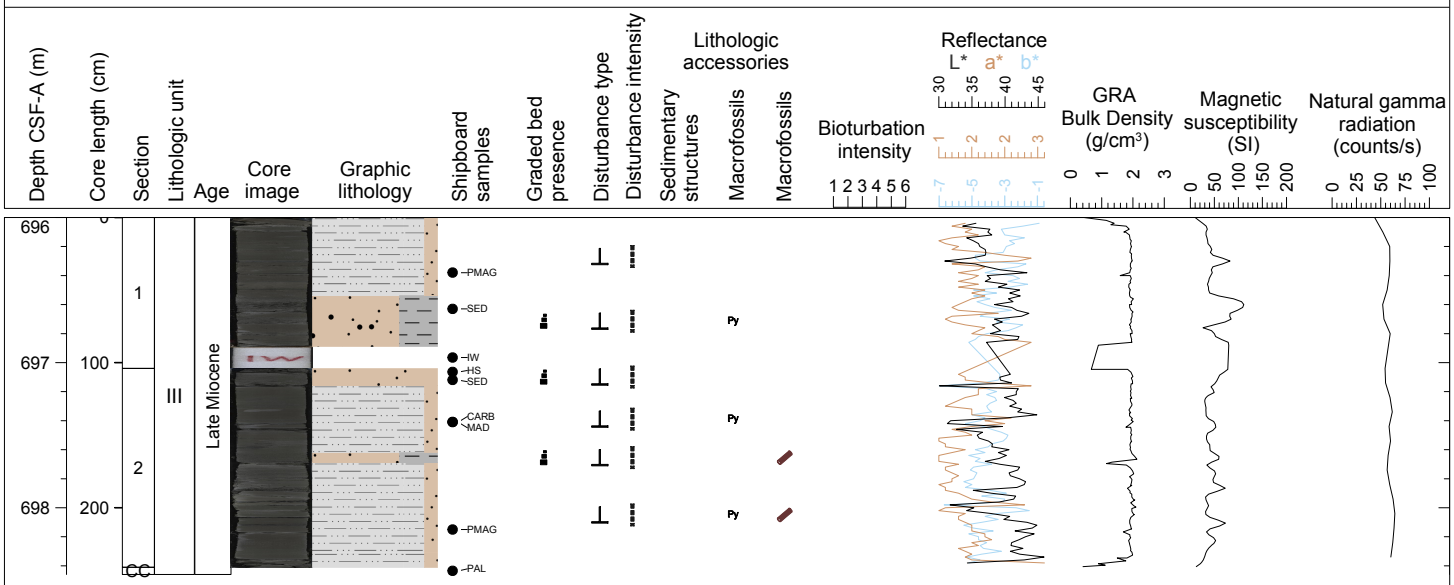
Hole 355-U1457C Core 53R, Interval 686.3-690.74 m (CSF-A)

SILTY CLAYSTONE, SILTY SANDSTONE, SANDY SILTSTONE, NANNOFOSSIL CHALK, NANNOFOSSIL CHALK WITH CLAY. Light greenish gray SILTY CLAYSTONE and dark gray SILTY SANDSTONE are the major lithologies. Light white NANNOFOSSIL CHALK and brownish white NANNOFOSSIL CHALK WITH CLAY occur in Section 3 and are highly bioturbated with dominant Planolites and composite burrows. Dark gray, medium to thickly bedded SILTY SANDSTONE is often interbedded with thin SILTY CLAYSTONE. The SILTY CLAYSTONE is often found with interbeds of SANDY SILTSTONE. The SILTY CLAYSTONE and SILTY SANDSTONE basal boundaries are sharp and erosive, but grade up into SILTY CLAYSTONE and SANDY SILTSTONE. Horizontal black lines and spots of pyrite are found in SILTY CLAYSTONE. SILTY SANDSTONE comprises <40% of the core



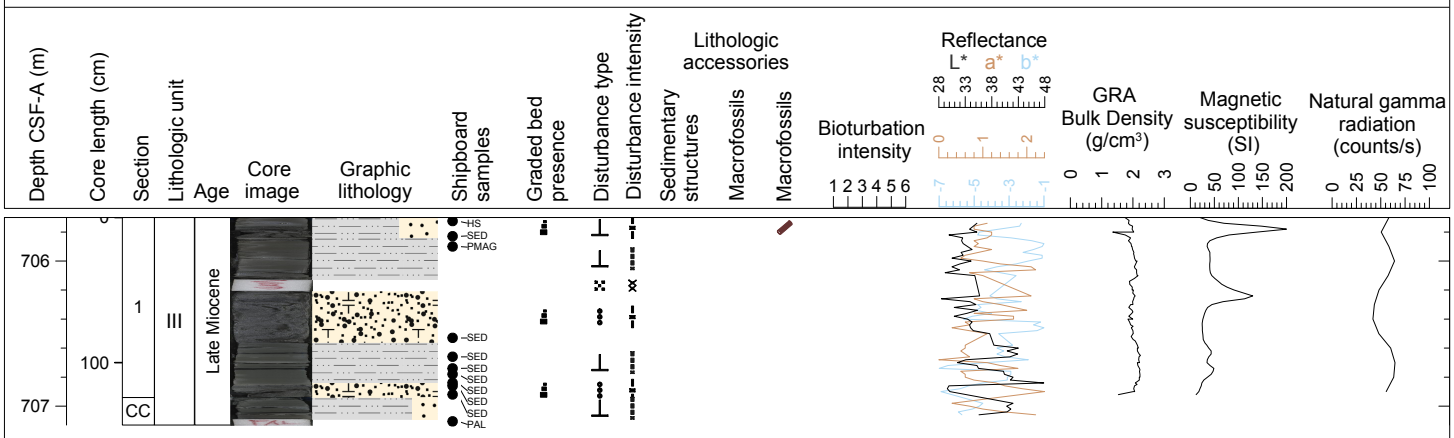
Hole 355-U1457C Core 54R, Interval 696.0-698.46 m (CSF-A)

SILTY CLAYSTONE, SANDY SILTSTONE. Light brownish to greenish gray, thin to medium bedded SILTY CLAYSTONE interbedded with very thin bedded SANDY SILTSTONE is the major lithology. The dark gray SANDY SILTSTONE is normally graded often above a sharp erosive contact with underlying SILTY CLAYSTONE. Black horizontal lines and spots of pyrite are common. Blackish organic-rich (wood fragments) layer is observed in Section 2. SILTY CLAYSTONE comprises >80% of the core.



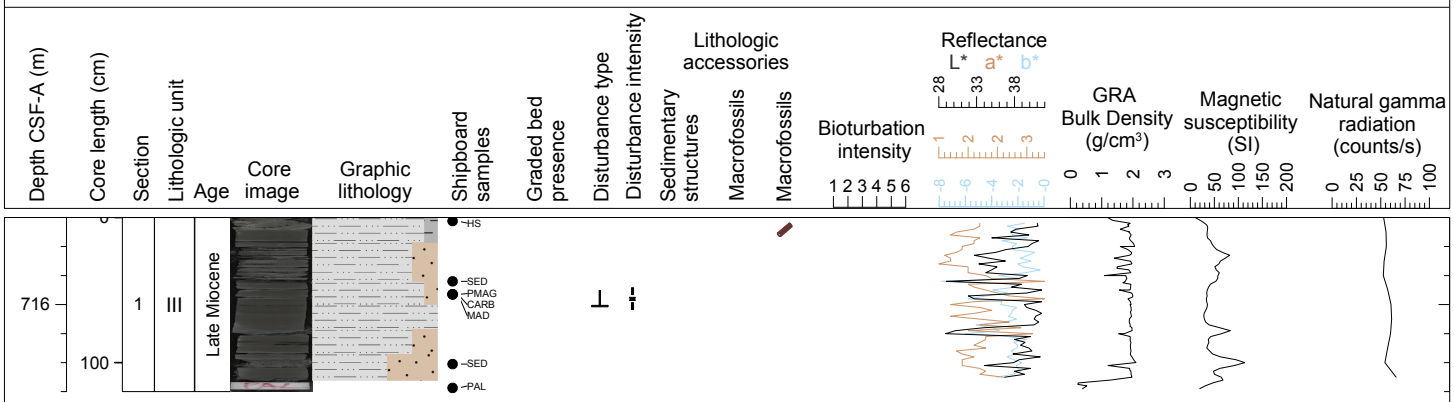
Hole 355-U1457C Core 55R, Interval 705.7-707.13 m (CSF-A)

SILTY CLAYSTONE, SILTY SANDSTONE. Light brownish gray, thin to medium bedded SILTY CLAYSTONE and dark gray SILTY SANDSTONE are the major lithologies. The SILTY SANDSTONE is thin to thickly bedded, semi-consolidated, normally graded, and observed with sharp erosive bottom contacts with the underlying SILTY CLAYSTONE. SILTY SANDSTONE grades up into the overlying SILTY CLAYSTONE. Thin layers, rich in wood fragments are observed in the upper part of the core. Black thin lines (<1 cm thick) are observed in SILTY CLAYSTONE, presumed to be pyrite. The SILTY SANDSTONE comprises <50% of the core.



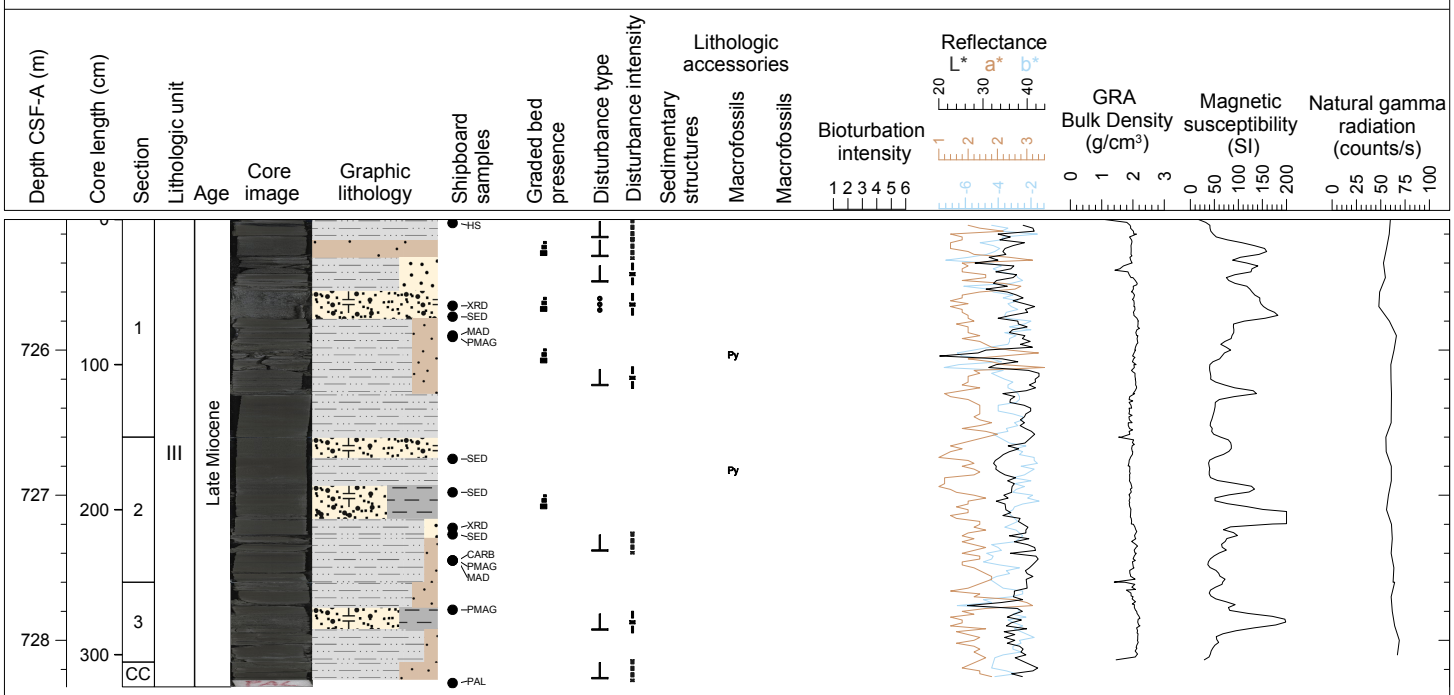
Hole 355-U1457C Core 56R, Interval 715.4-716.6 m (CSF-A)

SILTY CLAYSTONE, SANDY SILTSTONE. Light brownish gray SILTY CLAYSTONE is the major lithology. Thin bedded SILTY CLAYSTONE is repeatedly interbedded with thin beds (<1 cm) of SANDY SILTSTONE. The SANDY SILTSTONE beds have sharp erosive basal contacts with underlying SILTY CLAYSTONE, which is clearly visible in the lower part of the core. SANDY SILTSTONE beds are comparatively thick, up to 5 cm. Thin blackish layers rich in wood fragments are observed. Black spots, presumed to be pyrite are also observed in SILTY CLAYSTONE. The SILTY SANDSTONE comprises <20% of core.



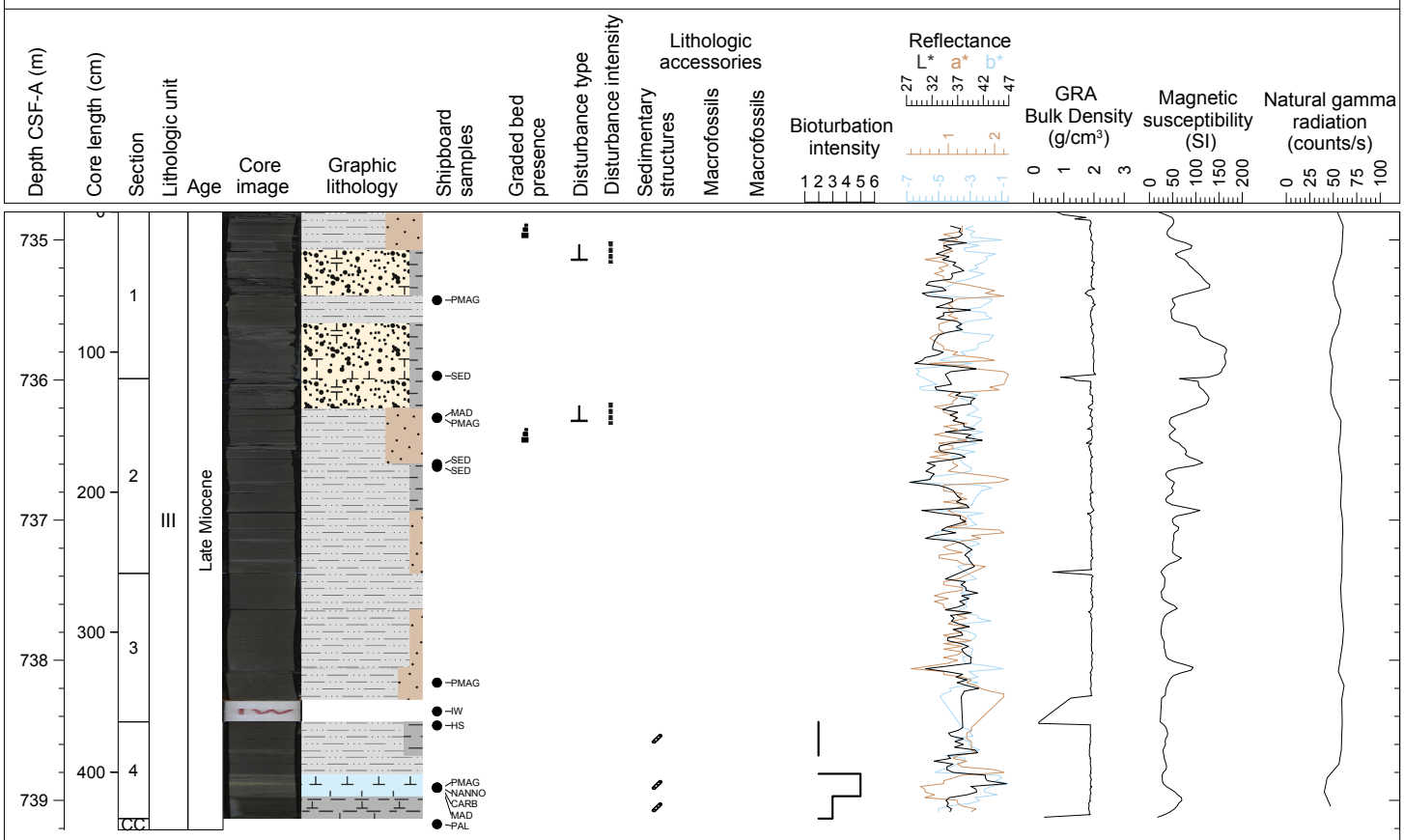
Hole 355-U1457C Core 57R, Interval 725.1-728.32 m (CSF-A)

SILTY CLAYSTONE, SILTY SANDSTONE, SANDY SILTSTONE. Brownish gray, massive SILTY SANDSTONE and brownish dark gray, massive SILTY SANDSTONE are dominant. SILTY SANDSTONE beds are 5-20 cm thick, and have erosive boundaries at their basal contact with CLAYSTONE. SANDSTONE is very fine to medium grained, containing small common mica grains and very tiny wood particles. Some layers also contain small clay rip-up clasts. CLAYSTONE is normally massive, but repeatedly interbedded with very thin (<1 cm) SANDY SILTSTONE beds showing very thin parallel laminations. Black staining is seen in CLAYSTONE at the top of Section 1. and between 95 and 120 cm of Section 1. Two very dark greenish black layers were interbedded with CLAYSTONE between Section 2,.56 and 68 cm.



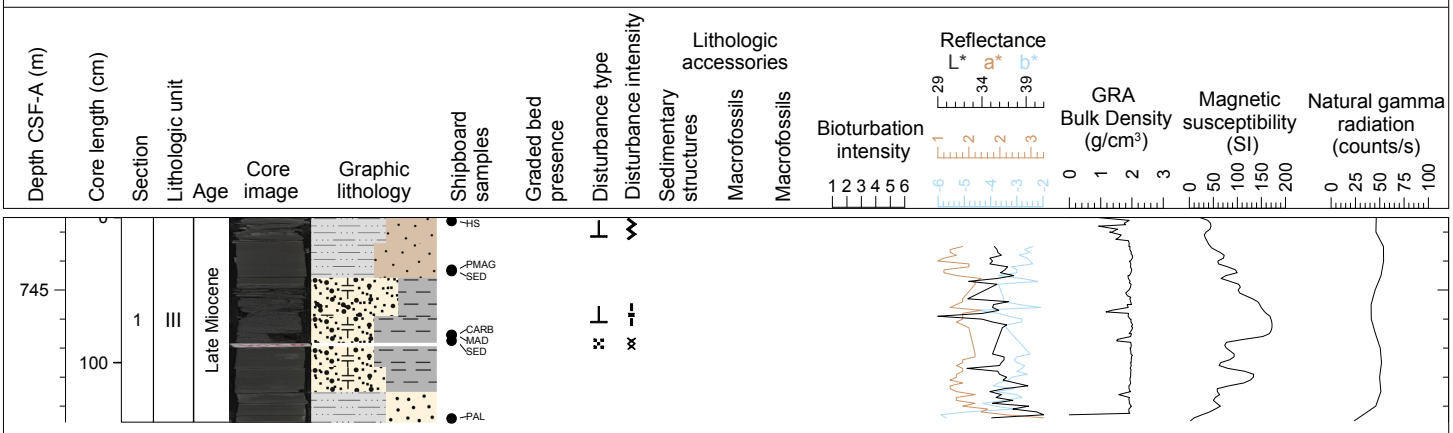
Hole 355-U1457C Core 58R, Interval 734.8-739.21 m (CSF-A)

SILTY CLAYSTONE, SILTY SANDSTONE, NANNOFOSSIL-RICH CLAYSTONE, NANNOFOSSIL CHALK. Dark brownish gray, massive SILTY CLAYSTONE is dominant. Thick (~20 to 30 cm), dark gray, massive SILTY SANDSTONE is interbedded with CLAYSTONE and shows sharp, erosive boundaries overlying CLAYSTONE. Some deformed clay rip-ups clasts are seen in the upper part of the fine to medium SANDSTONE. Thin (<1 cm), dark gray SILTY SANDSTONE is also repeatedly interbedded with thin (~3 to 5 cm) CLAYSTONE, showing very thin parallel lamination and plenty of tiny wood particle as well as black stained structures. Two black wood fragment (?) layers were seen at 94 cm, Section 2 and 26 cm of Section 3. Light gray NANNOFOSSIL CHALK overlain by dark greenish gray NANNOFOSSIL-RICH CLAYSTONE shows intense bioturbation in Section 4.



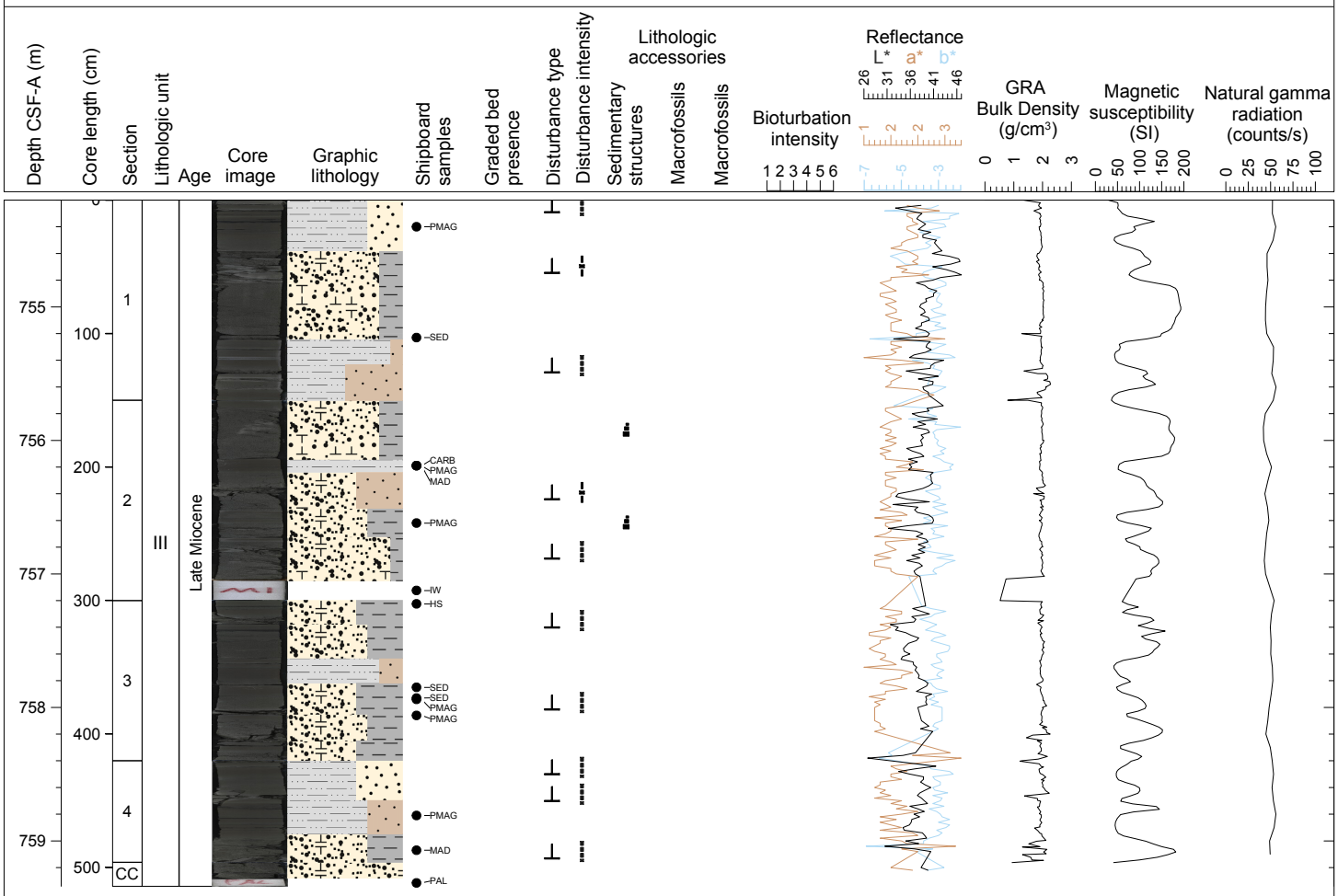
Hole 355-U1457C Core 59R, Interval 744.5-745.91 m (CSF-A)

SILTY CLAYSTONE, SILTY SANDSTONE. SANDY SILTSTONE. Dark brownish, massive SILTY CLAYSTONE, dark gray SANDY SILTSTONE, and dark gray, massive SILTY SANDSTONE are dominant lithologies. Thin (3-5 cm) SANDY SILTSTONE and SILTY CLAYSTONE interbeds show faint planar boundaries. Some thin SANDY SILTSTONE layers contain many tiny wood particles and have sharp, erosive bases. A 40 cm thick SILTY SANDSTONE is interbedded with CLAYSTONE, and large clay rip-up clasts are present in the upper part of this SANDSTONE. Sand is fine to medium grained, and include mica with wood particles.



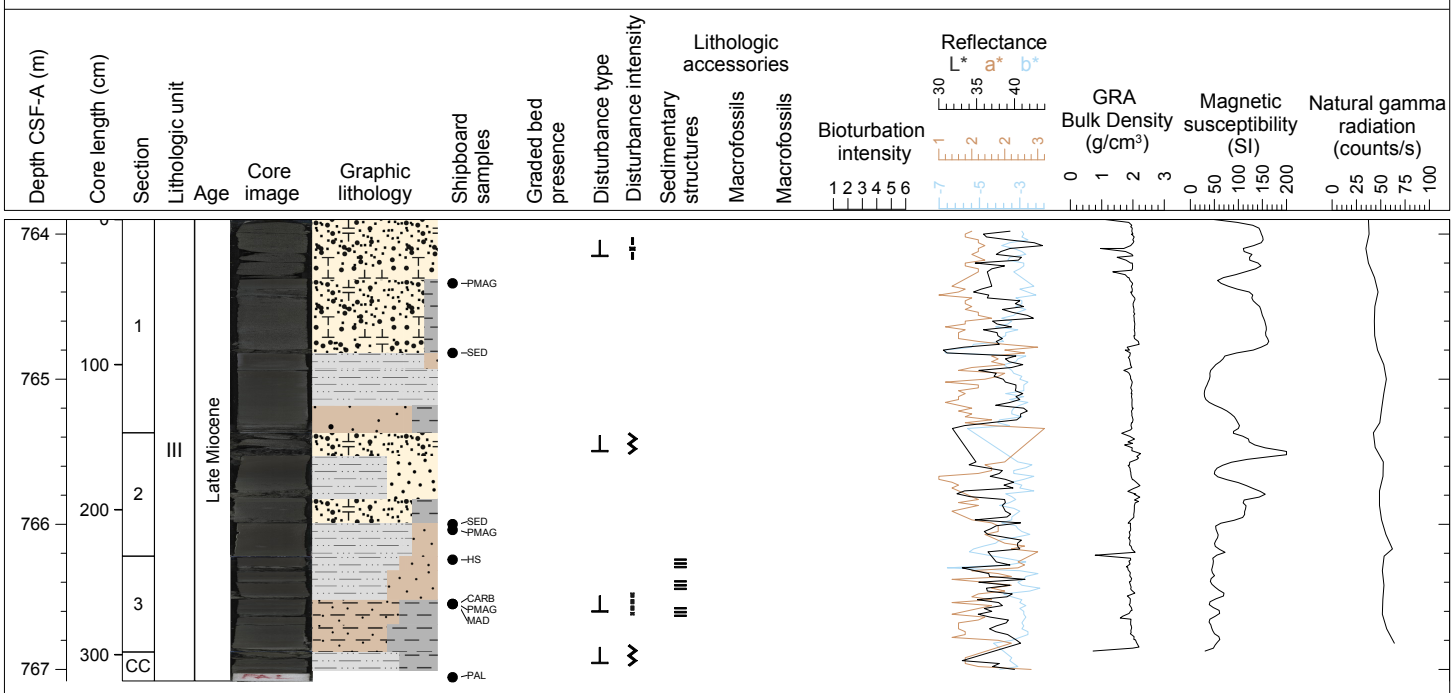
Hole 355-U1457C Core 60R, Interval 754.2-759.34 m (CSF-A)

SILTY CLAYSTONE, SILTY SANDSTONE, SANDY SILTSTONE. Dark gray, massive, thick (30-40 cm) SILTY SANDSTONE is dominant. Brownish dark gray, massive SILTY CLAYSTONE and thin (a few mm to cm) SANDY SILTSTONE beds are in the minority. SILTY SANDSTONE overlies CLAYSTONE with a sharp erosive contact. Thin SANDY SILTSTONE beds contain tiny wood particles and sometime show a dark stain. Variably sized (few mm to 3 cm) clay clasts are seen in the upper part of the SANDSTONE. Some SANDSTONE beds show normal grading up into SANDY SILTSTONE. SANDSTONE also contains wood particles.



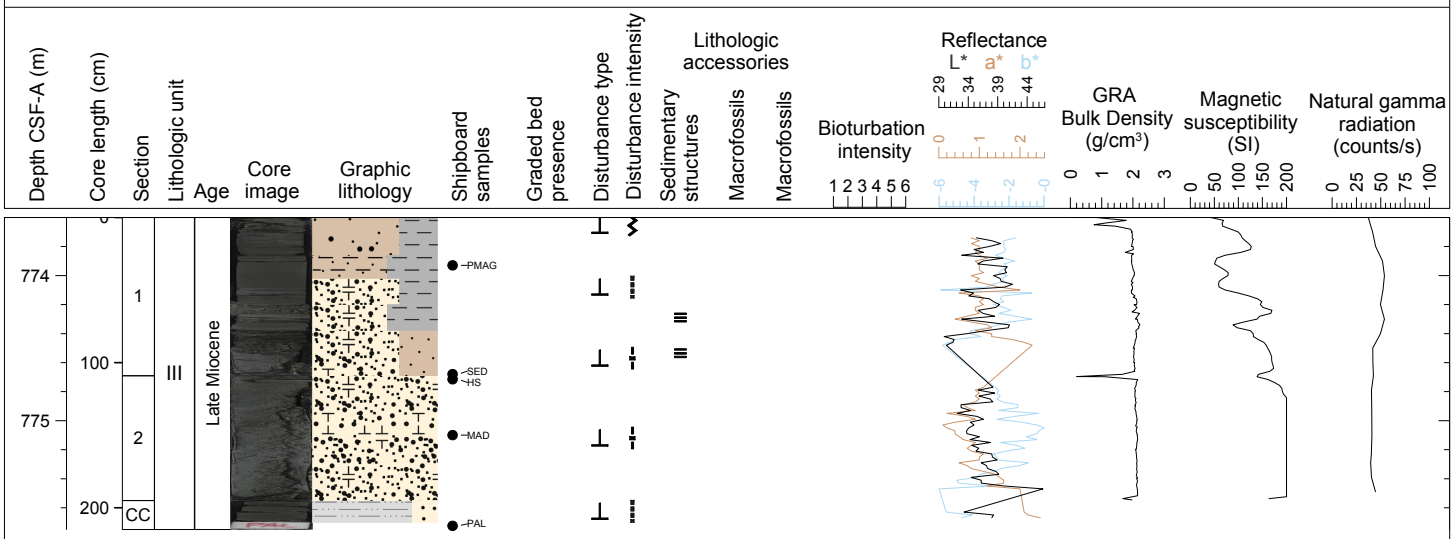
Hole 355-U1457C Core 61R, Interval 763.9-767.08 m (CSF-A)

SILTY SANDSTONE, SILTY CLAYSTONE, CLAYEY SILTSTONE, SANDY SILTSTONE. Dark gray, massive, and thick-bedded (>40 cm) SILTY SANDSTONE and brownish dark gray, thick-bedded (15 to 30 cm), massive SILTY CLAYSTONE are dominant lithologies. SILTY SANDSTONE is fine to medium grained, containing black tiny wood particles and have erosive bases. The upper part of SANDSTONE beds includes deformed clay clasts. Thin (1-3 cm), dark gray SANDY SILTSTONE is interbedded with thin intervals of SILTY CLAYSTONE with planar contacts. Dark gray CLAYEY SILTSTONE show very thin (<1 mm) parallel laminations. SILTSTONE also contains black wood particles. Black stains are seen in Section 3.



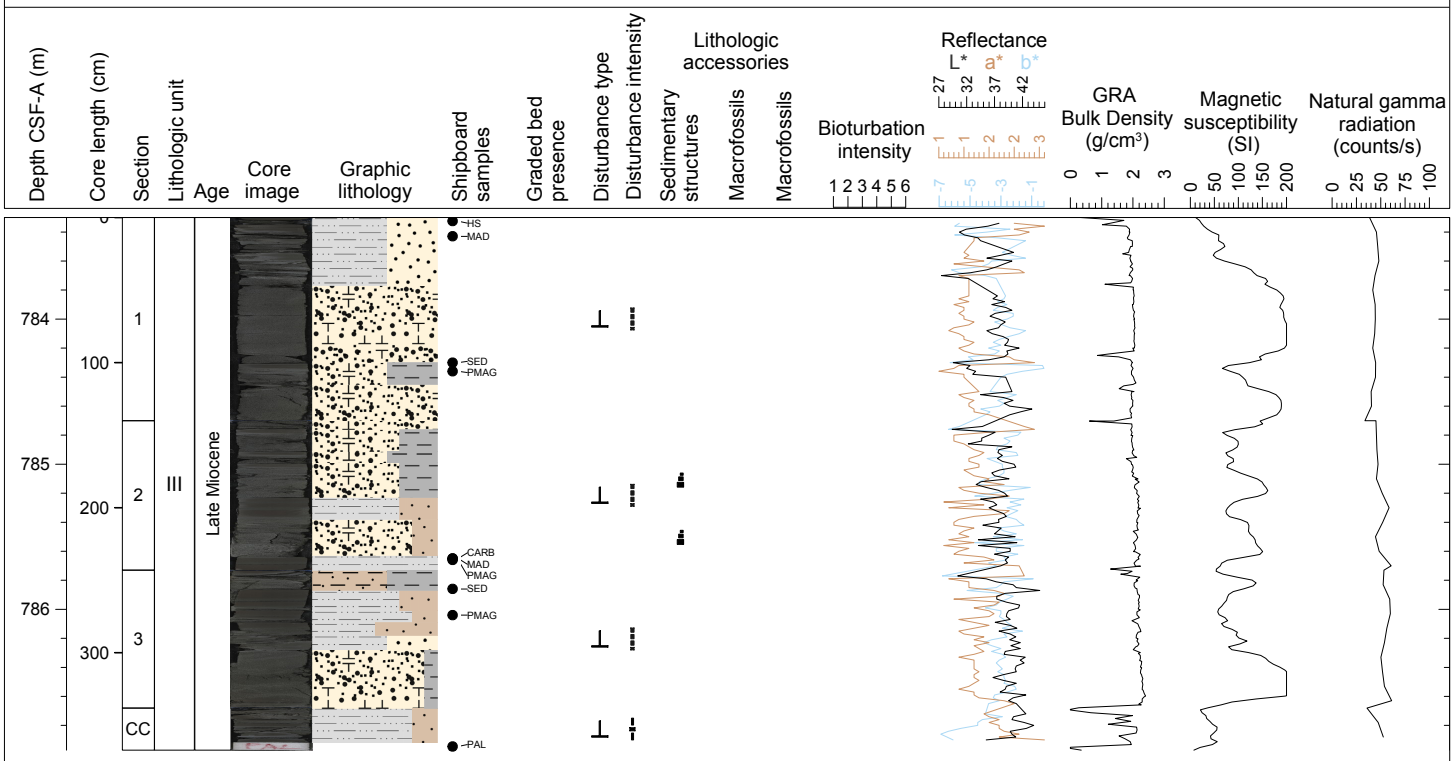
Hole 355-U1457C Core 62R, Interval 773.6-775.75 m (CSF-A)

SILTY SANDSTONE, SILTY CLAYSTONE, CLAYEY SILTSTONE, SANDY SILTSTONE. A thick (~1 m), massive, dark gray SILTY SANDSTONE is the main lithology. Sand is fine to medium grained. The SANDSTONE is overlain by dark gray CLAYEY SILTSTONE with a series of thin (a few mm) laminations, containing abundant tiny black wood particles. Dark gray SANDY SILTSTONE beds containing tiny wood particles are repeatedly interbedded with thin SILTY CLAYSTONE in sharp-based, normally graded cycles. Some pieces of clay (rip-up) are found within the SANDSTONE.



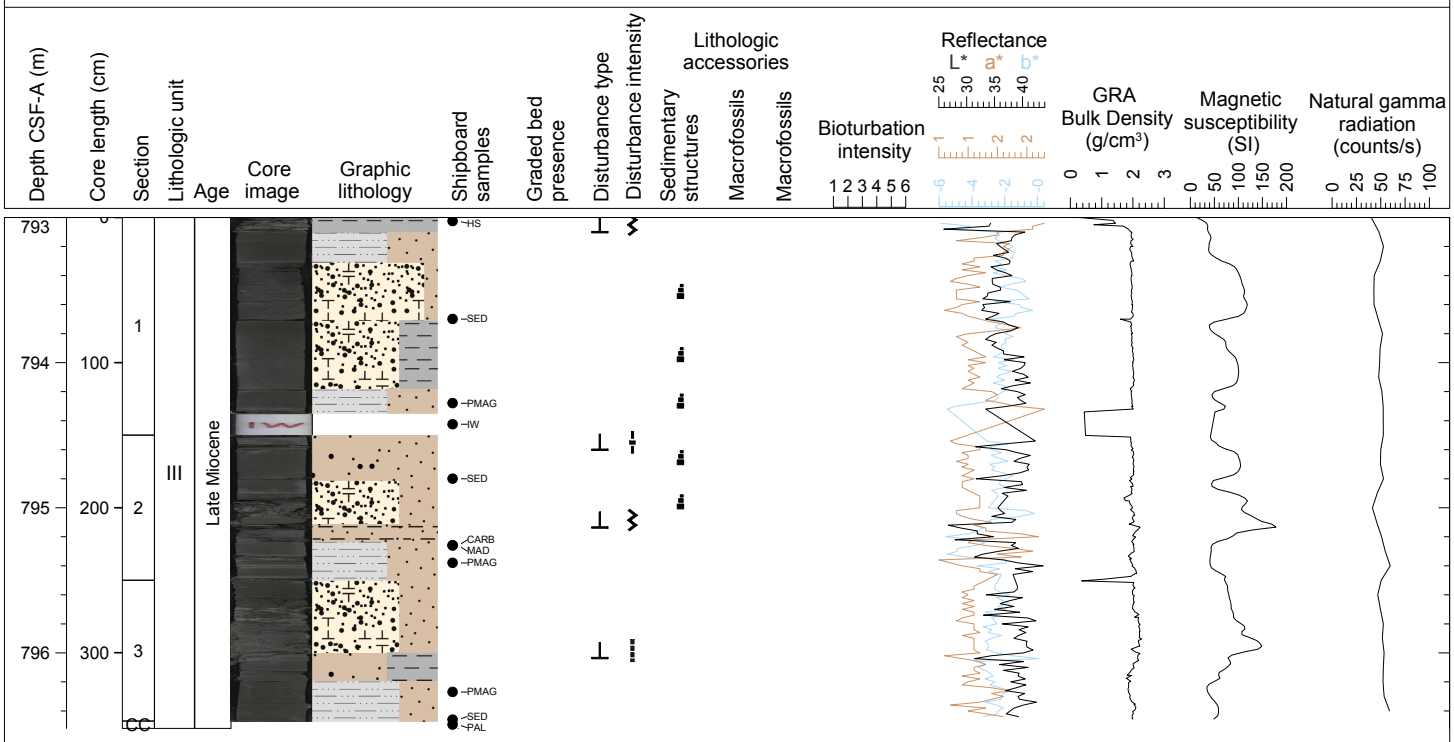
Hole 355-U1457C Core 63R, Interval 783.3-786.97 m (CSF-A)

SILTY CLAYSTONE, SILTY SANDSTONE, CLAYEY SILTSTONE, SILTY CLAYSTONE, SANDY SILTSTONE. Thick (30-50 cm), dark gray, massive SILTY SANDSTONE and brownish dark gray, massive, thin (<10 cm) SILTY CLAYSTONE beds are dominant. SILTY SANDSTONE contains deformed clay rip-up clasts in the upper part. Sand grains are fine to medium. Some SANDSTONE shows normal grading into dark gray SANDY SILTSTONE. Thin (<1 cm), dark gray, sharp-based CLAYEY SILTSTONE beds are interbedded or overlie graded SILTY CLAYSTONE intervals. These thin SILTSTONE beds contain tiny black wood particles with dark staining.



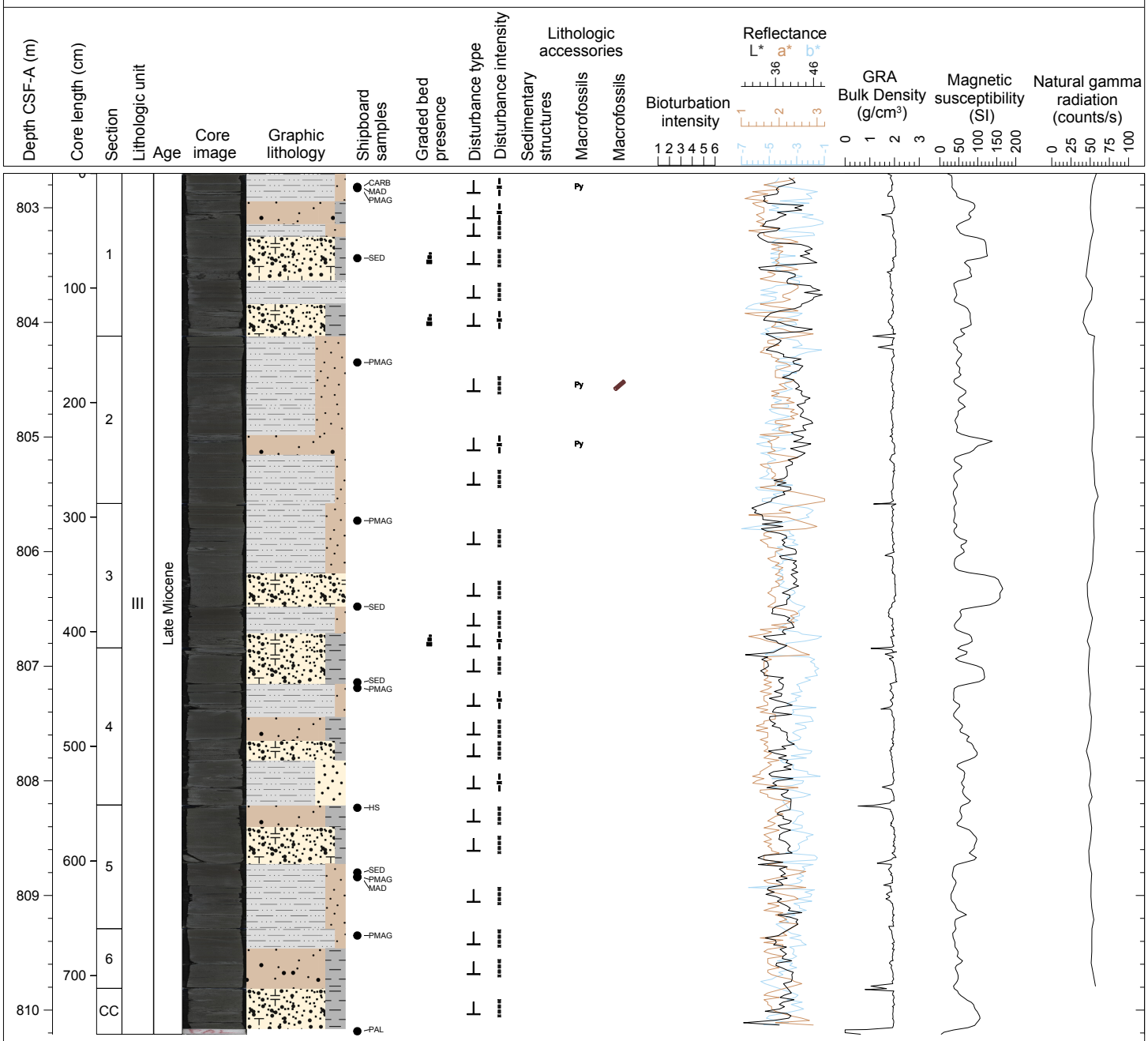
Hole 355-U1457C Core 64R, Interval 793.0-796.52 m (CSF-A)

CLAYSTONE, SILTY CLAYSTONE, SILTY SANDSTONE, SANDY SILTSTONE, CLAYEY SILTSTONE. Dark gray SILTY SANDSTONE and brownish dark gray SILTY CLAYSTONE are dominant. CLAYSTONE is normally overlain by an erosive or scoured contact by coarser garined sediments. Thick (>20 cm) SANDSTONE grades upward into SILTY CLAYSTONE or SANDY SILTSTONE. Sand and silt-rich sediments contain dark tiny wood particles. Thin (<2 cm) layera of dark gray CLAYEY SILTSTONE are repeatedly interbedded with CLAYSTONE. Some SANDSTONE contains deformed clay rip-up clasts.



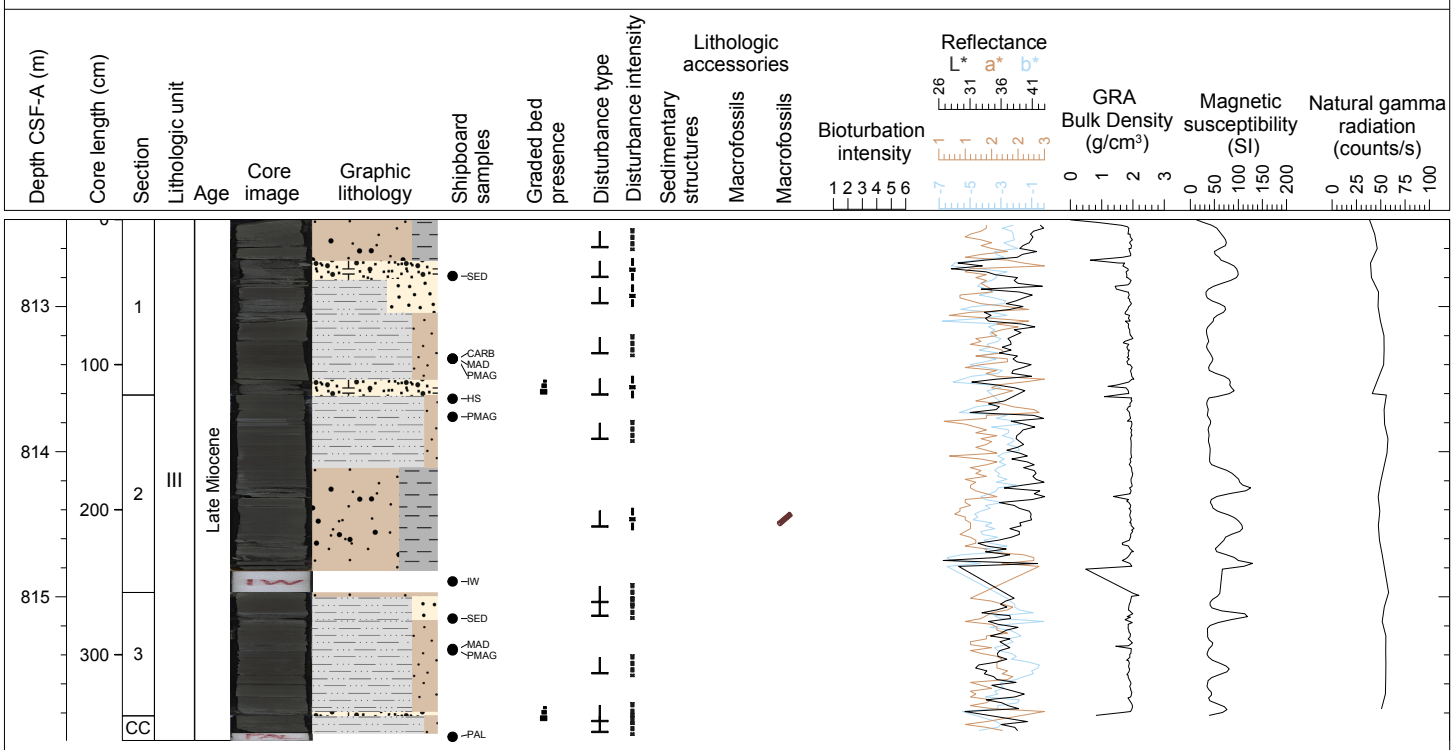
Hole 355-U1457C Core 65R, Interval 802.7-810.21 m (CSF-A)

SILTY CLAYSTONE, CLAYEY SILTSTONE, SANDY SILTSTONE, SILTY SANDSTONE. Light brownish to greenish SILTY CLAYSTONE is interbedded with SANDY SILTSTONE and dark gray SILTY SANDSTONE which together are the major lithologies. The thin bedded SILTY CLAYSTONE and SANDY SILTSTONE are repeatedly interbedded. The thin to medium bedded SILTY SANDSTONE are often observed containing clasts of thin beds of SILTY CLAYSTONE. The SILTY SANDSTONE and SILTY CLAYSTONE both show sharp, erosive bottom contact boundaries, whereas their top boundaries are gradational. The SILTY SANDSTONE and SANDY SILTSTONE show normal grading. Black horizontal lines and patches are common in SILTY CLAYSTONE and may be pyrite. SILTY SANDSTONE comprises of <50 % of the core.



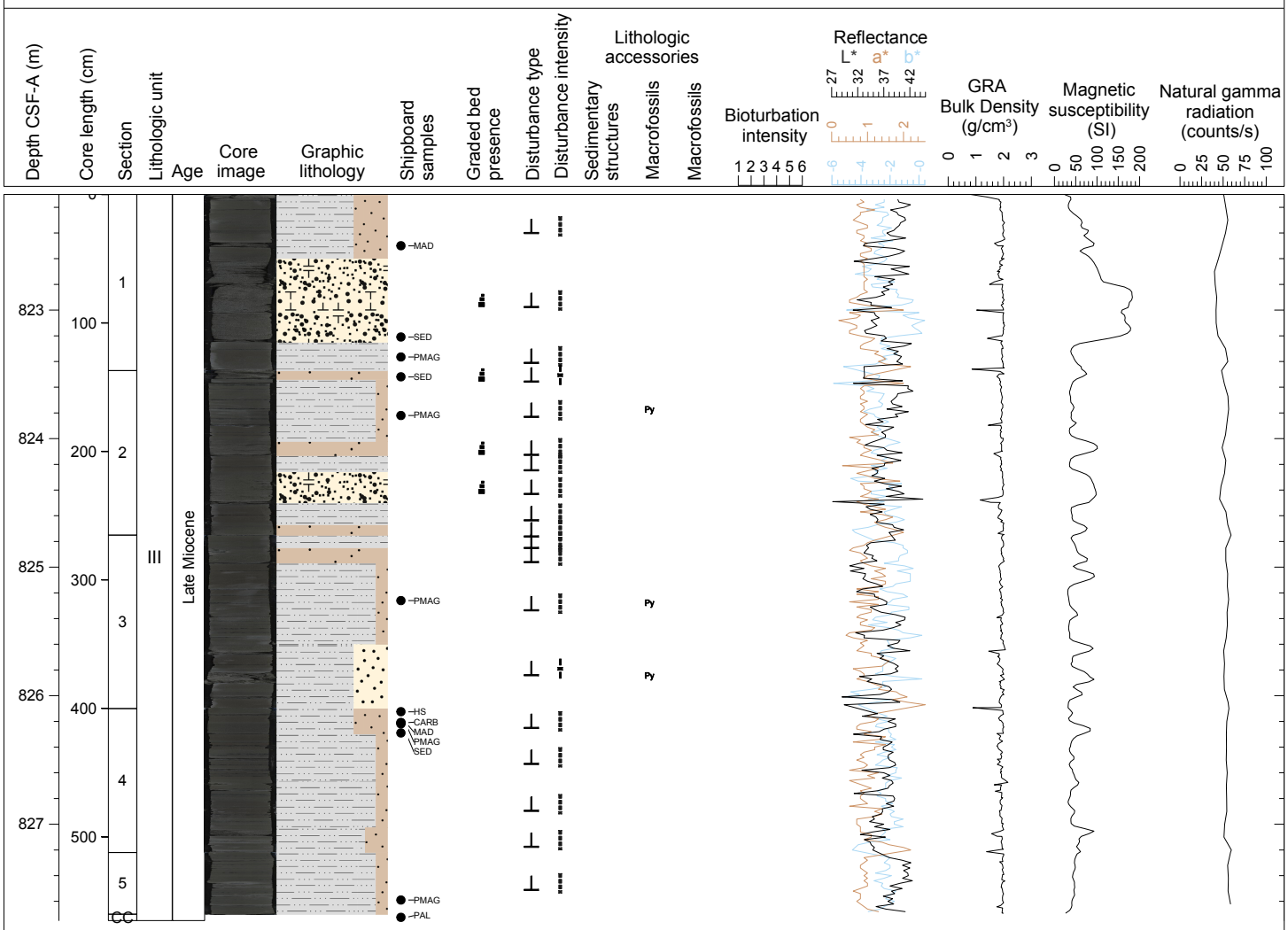
Hole 355-U1457C Core 66R, Interval 812.4-815.99 m (CSF-A)

SILTY CLAYSTONE, SILTY SANDSTONE, SANDY SILTSTONE. Light brownish gray SILTY CLAYSTONE and dark gray SILTY SANDSTONE are the major lithologies. Thin to medium bedded SILTY CLAYSTONE layers are often found interbedded with SANDY SILTSTONE. The SILTY SANDSTONE and SANDY SILTSTONE are normally graded, contain mica grains and show sharp erosive basal contacts with underlying SILTY CLAYSTONE. The SANDY SILTSTONE is often observed with SILTY CLAYSTONE clasts, probably rip-ups. A thin wood fragment-rich layer is observed in Section 2, 65 cm. Black horizontal layers are observed in the lower part of the core. SILTY SANDSTONE comprises <20% of the core.



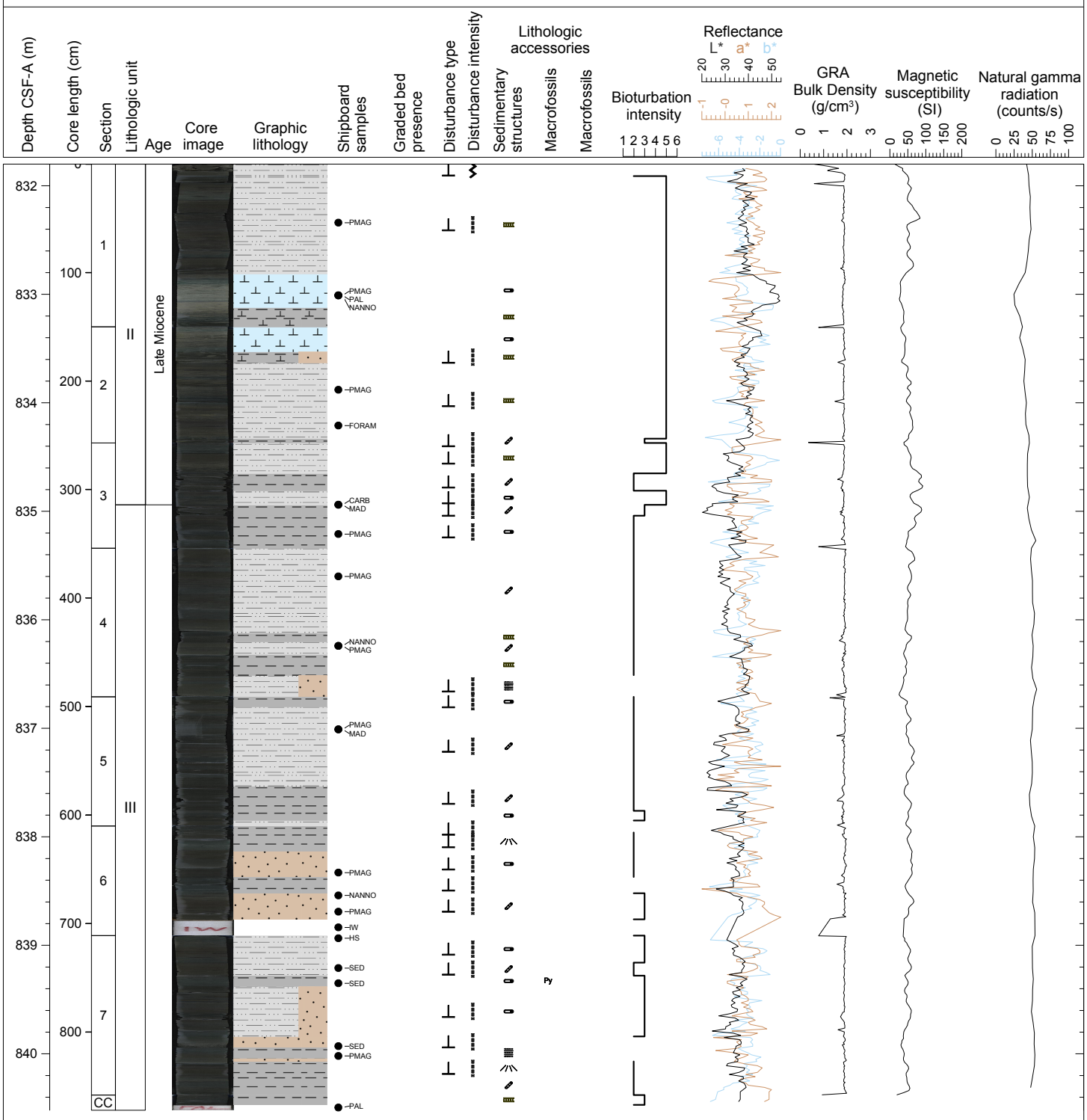
Hole 355-U1457C Core 67R, Interval 822.1-827.75 m (CSF-A)

SILTY CLAYSTONE, SILTY SANDSTONE, SANDY SILTSTONE. Light greenish to light brownish gray SILTY CLAYSTONE and dark gray SILTY SANDSTONE are the major lithologies. Thin to thickly bedded SILTY SANDSTONE occurs in the upper part of the core and is less abundant in the lower part. Thin bedded SILTY CLAYSTONE is often observed repeatedly interbedded with thin SANDY SILTSTONE. SANDY SILTSTONE and SILTY SANDSTONE are normally graded, with sharp erosive basal contacts with underlying SILTY CLAYSTONE and fine upwards into overlying SILTY CLAYSTONE. Black horizontal lines are very common in SILTY CLAYSTONE. SILTY SANDSTONE comprises <20% of the core.



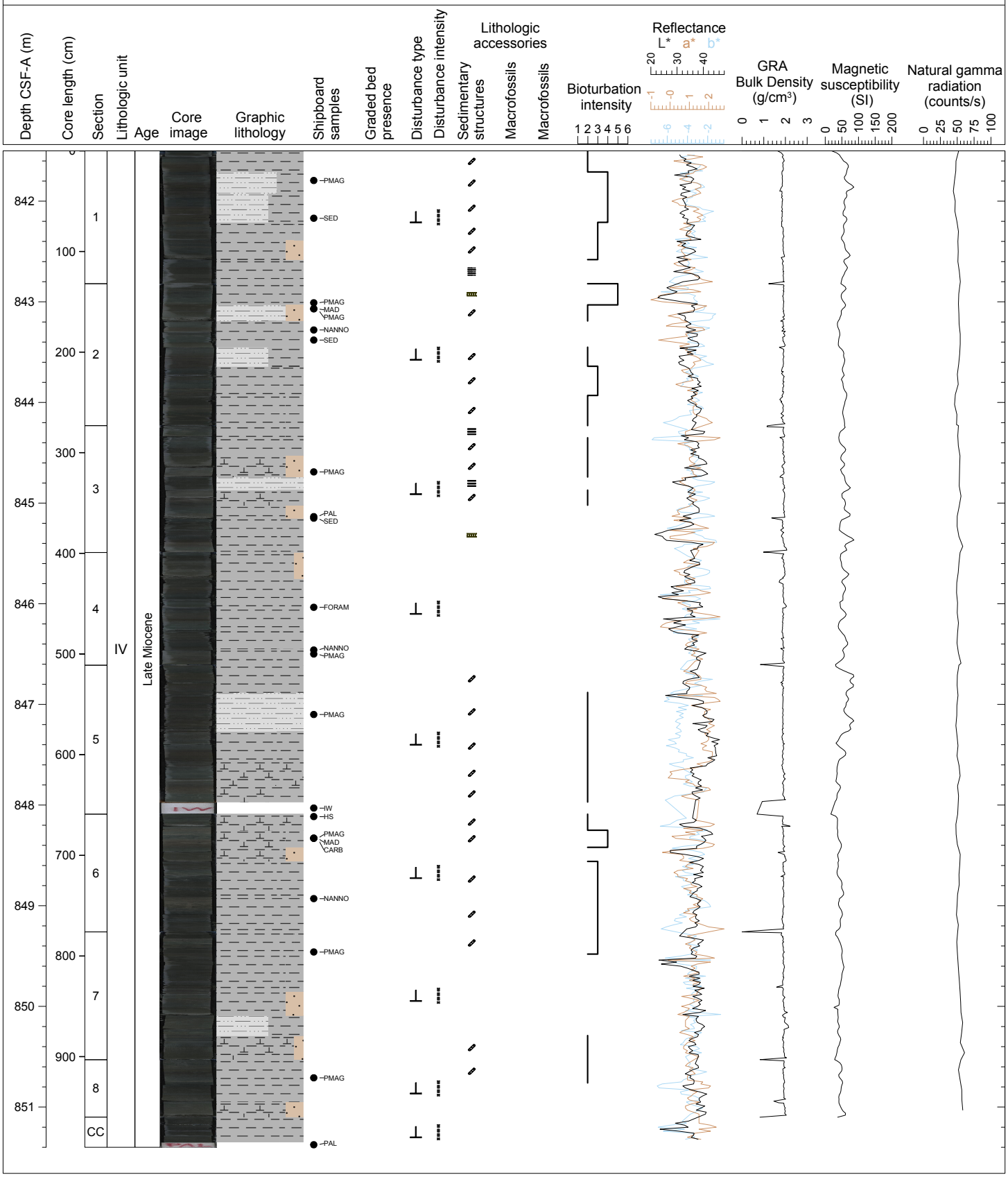
Hole 355-U1457C Core 68R, Interval 831.8-840.52 m (CSF-A)

NANNOFOSSIL CHALK, NANNOFOSSIL-RICH CLAYSTONE, SILTY CLAYSTONE, CLAYSTONE, CLAYSTONE WITH NANNOFOSSILS, SILTSTONE. Light brownish to light greenish SILTY CLAYSTONE and CLAYSTONE WITH NANNOFOSSILS are the dominant lithologies. The upper part of the core is dominated by nannofossil-rich sediment, such as medium bedded white NANNOFOSSIL CHALK and thinly bedded NANNOFOSSIL-RICH CLAYSTONE. The lower part of the core is dominated by SILTY CLAYSTONE and SILTSTONE. Thin bedded SANDY SILTSTONE is also observed in the lower part of the core. Color variations between lithologies are mostly gradational. The core is bioturbated with Zoophycos, Planolites and composite burrows and are particularly common in nannofossil-rich lithologies. Pyrite nodules and black patches are observed in the core.



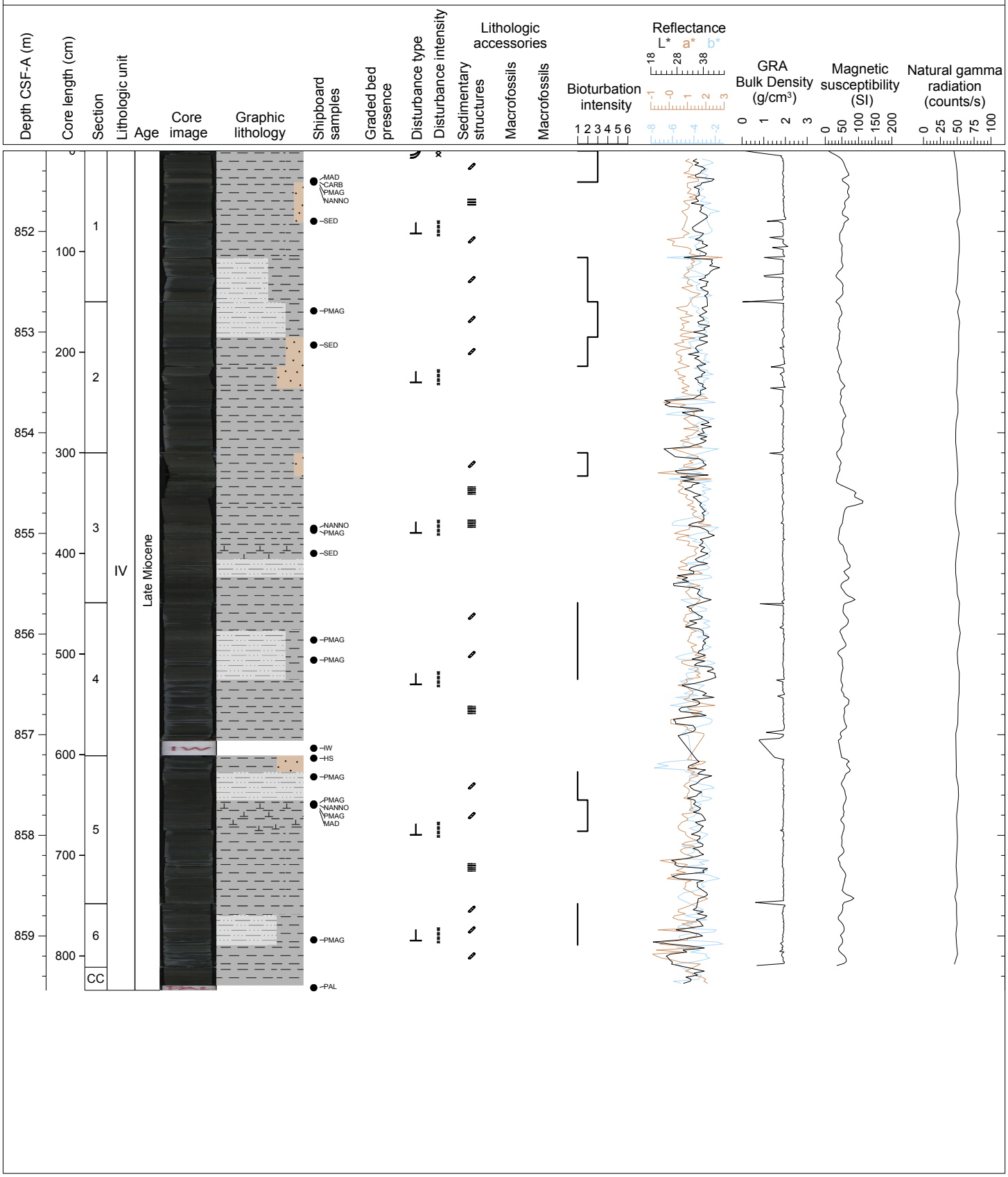
Hole 355-U1457C Core 69R, Interval 841.5-851.4 m (CSF-A)

CLAYSTONE, SILTY CLAYSTONE, NANNOFOSSIL-RICH CLAYSTONE, CLAYEY SILTSTONE, SILTSTONE. Dark green, dark greenish green CLAYSTONE and dark gray SILTY CLAYSTONE are the dominant lithologies. The thickness of these interbedded lithologies is variable, but mostly 5-10 cm. Some layers are moderately bioturbated. Thin bedded (1-3 cm) CLAYEY SILTSTONE and SILTSTONE beds overlie CLAYSTONE and show very thin parallel laminations and erosive basal contacts. Dark grayish green NANNOFOSSIL-RICH CLAYSTONE beds with moderate bioturbation are also interleaved in the section.



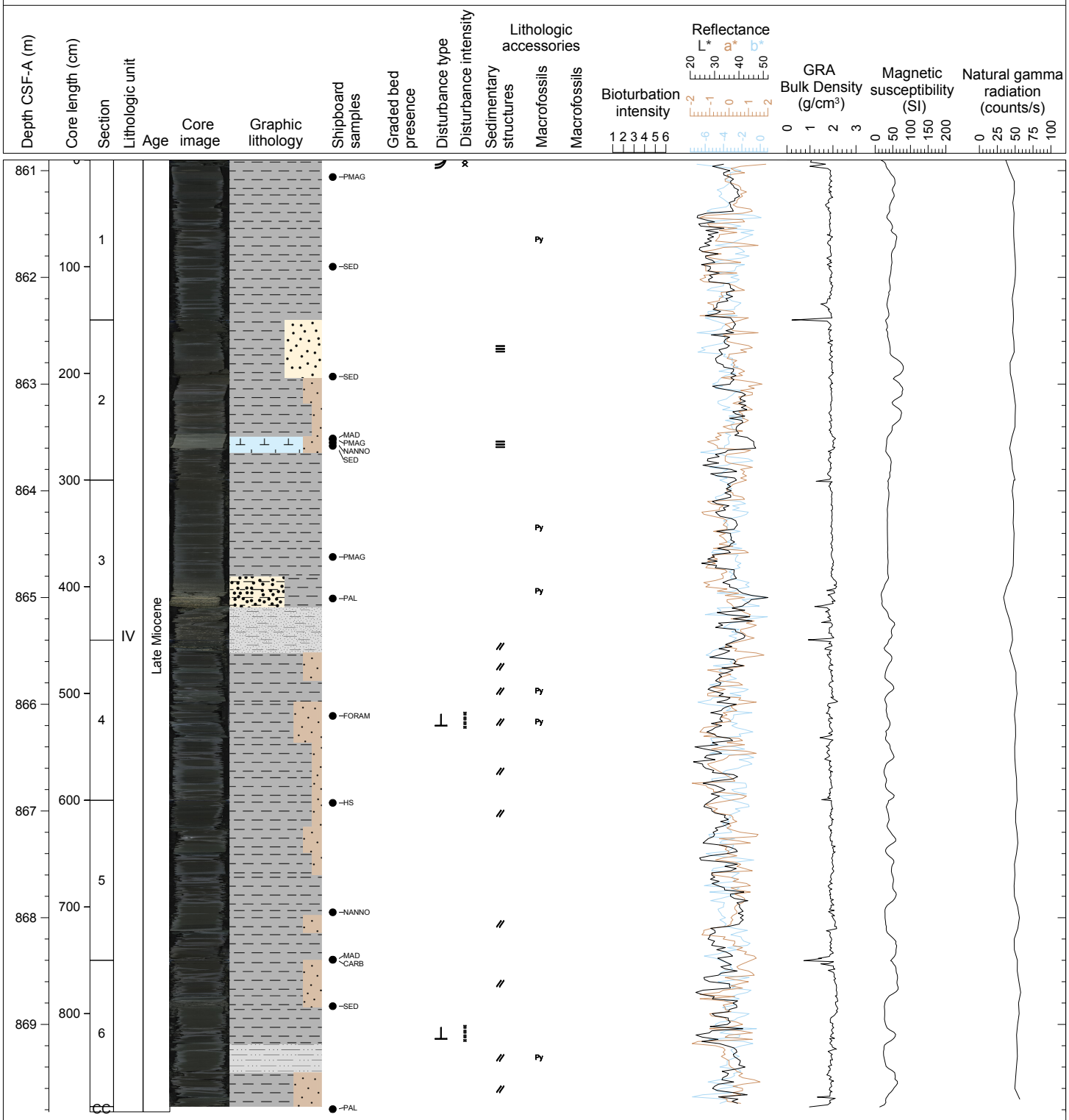
Hole 355-U1457C Core 70R, Interval 851.2-859.54 m (CSF-A)

CLAYSTONE, SILTY CLAYSTONE, NANNOFOSSIL-RICH CLAYSTONE, CLAYEY SILTSTONE, SANDY SILTSTONE. Dark greenish gray CLAYSTONE and SILTY CLAYSTONE are the dominant lithologies. They are interbedded with gradational boundaries highlighted by color banding and both show sparse bioturbation. Thin (2-5 cm), dark gray CLAYEY SILTYSTONE or SANDY SILTSTONE beds overlie CLAYSTONE with sharp, erosional boundaries. Light dark gray NANNOFOSSIL-RICH CLAYSTONE is also interbedded with CLAYSTONE and shows moderate bioturbation.



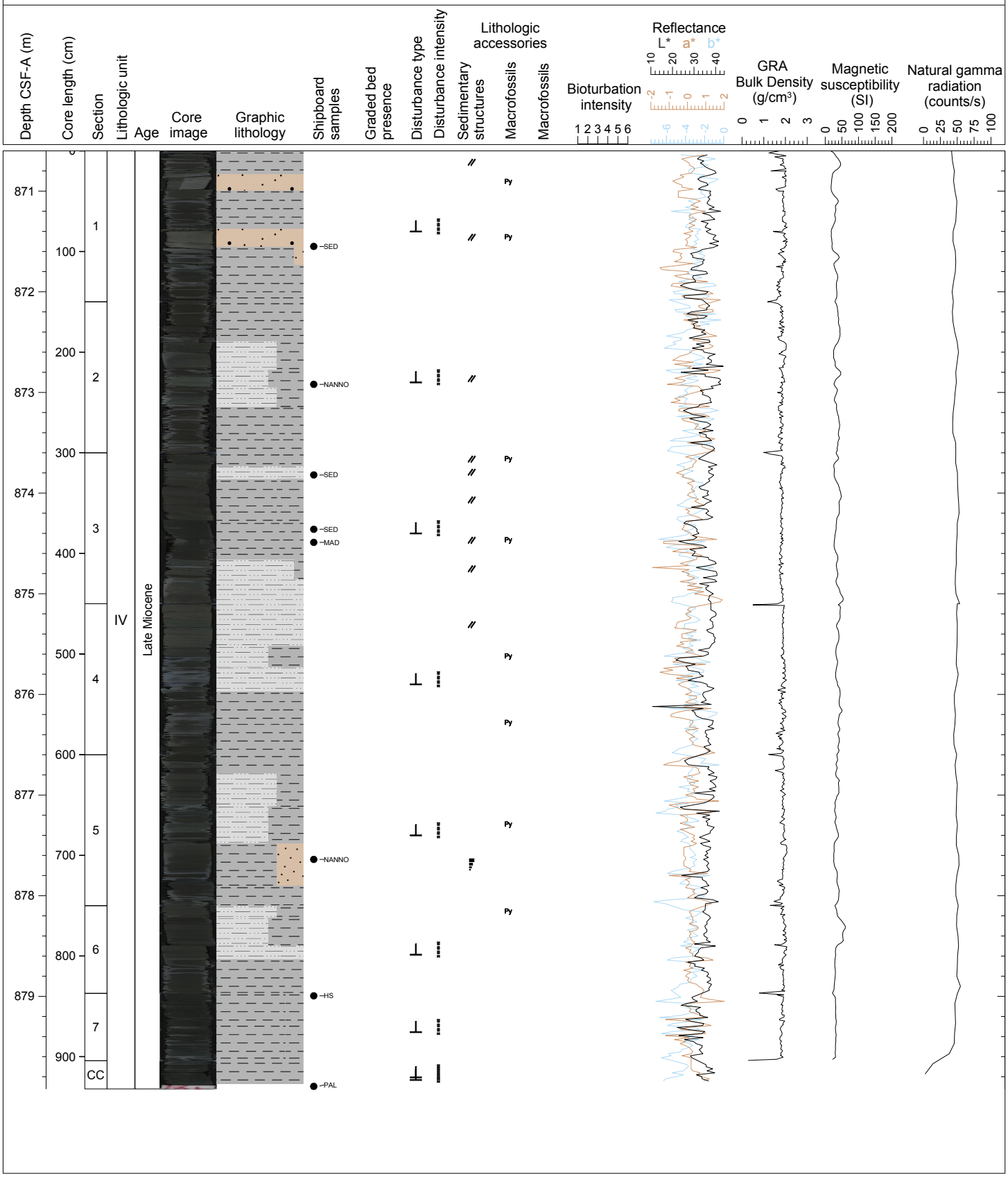
Hole 355-U1457C Core 71R, Interval 860.9-869.82 m (CSF-A)

CLAYSTONE, CLAYEY SANDSTONE, SANDY CLAYSTONE, SILTY CLAYSTONE, SANDY SILTSTONE. Dark greenish gray, massive, thick-bedded (>30 cm) CLAYSTONE is the dominant lithology. Thin (1-5 cm) bedded, dark gray SANDY SILTSTONE is interbedded with CLAYSTONE. SANDY SILTSTONE beds, ca. 15 cm thick and with thin parallel laminations overlie CLAYSTONE intervals with erosive scoured basal contacts. A 30 cm thick CLAYEY SANDSTONE and SANDY CLAYSTONE bed includes large-sized foraminifer shells. Below this SANDSTONE, tilted bedding is frequently observed. Light gray NANNOFOSSIL CHALK is interbedded with CLAYSTONE. Pyrite is seen throughout the core.



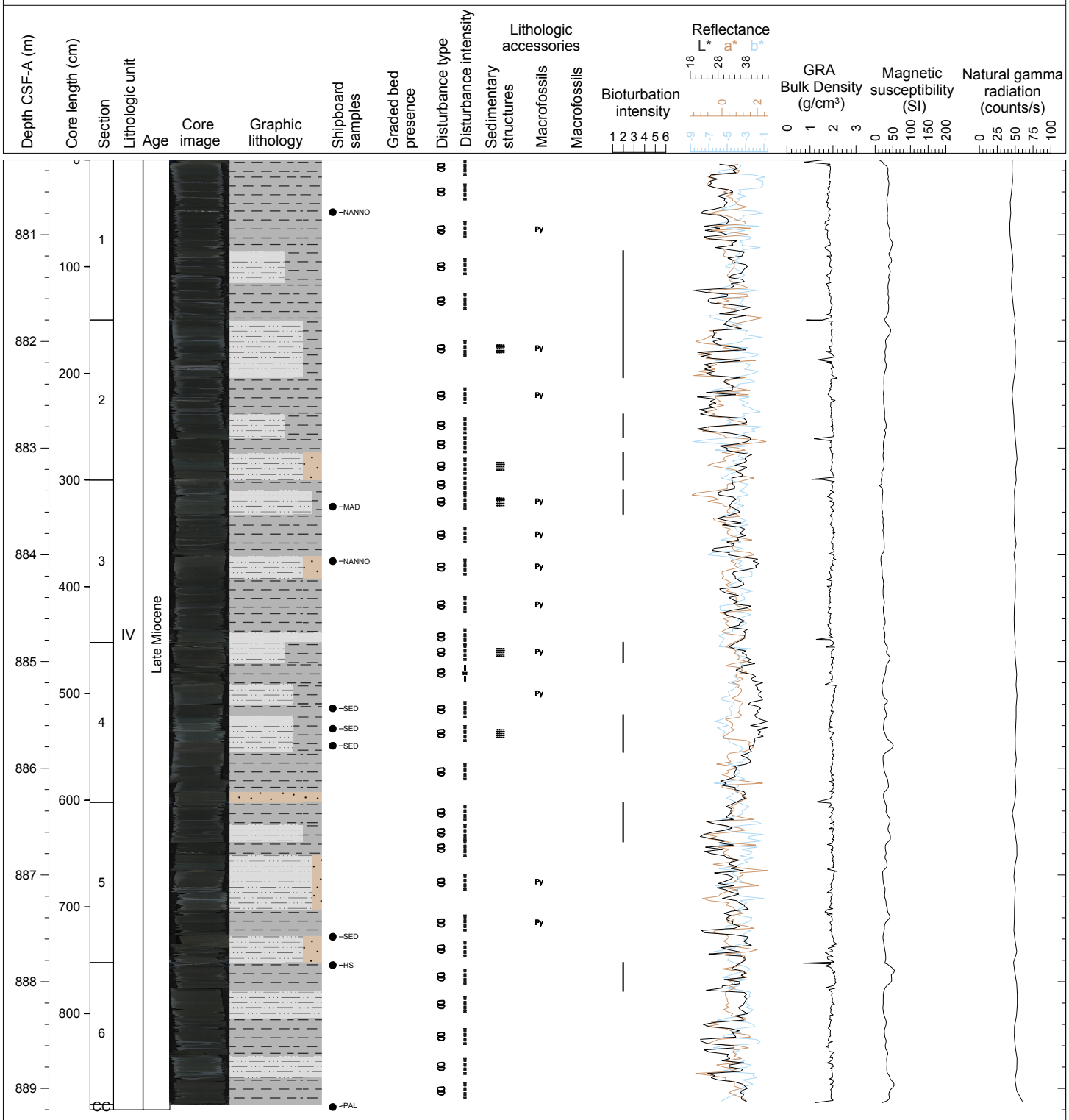
Hole 355-U1457C Core 72R, Interval 870.6-879.92 m (CSF-A)

CLAYSTONE, SILTY CLAYSTONE, SANDY SILTSTONE. Dark greenish gray, massive CLAYSTONE and dark gray, massive SILTY CLAYSTONE are the dominant lithologies. These lithologies are interbedded and show clear color changes across sharp planar or tilted boundaries. Tilted bedding structures are widespread. Pyrite is also seen throughout the core. NANNOFOSSIL-RICH CLAYSTONE and SANDY SILTSTONE are interbedded with CLAYSTONE. SANDY SILTSTONE has erosive and scoured boundaries with the underlying SILTY CLAYSTONE (Section 1) but is also found with a gradational boundary with SILTY CLAYSTONE, where it shows reverse grading (Section 5, 95 cm).



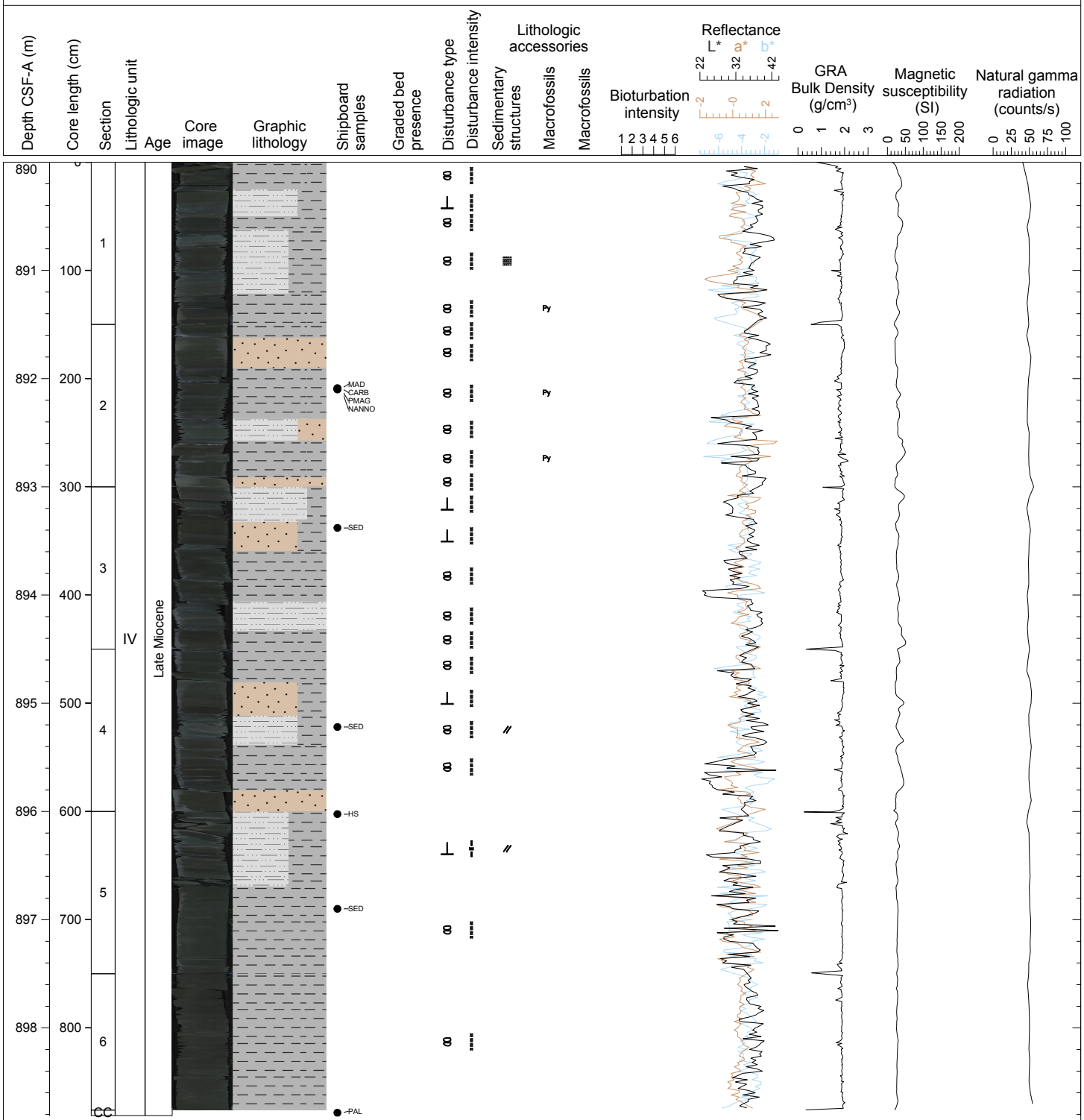
Hole 355-U1457C Core 73R, Interval 880.3-889.2 m (CSF-A)

CLAYSTONE, SILTY CLAYSTONE, SILTY CLAYSTONE WITH NANNOFOSSILS, SILTSTONE. Light greenish gray to dark gray CLAYSTONE and light bluish SILTY CLAYSTONE are the dominant lithologies. Thin to medium bedded CLAYSTONE is repeatedly interbedded with thin (<3 cm) bluish SILTY CLAYSTONE, Bluish SILTY CLAYSTONE intervals are occasionally thick, slightly bioturbated and observed with color banding. In the lower part of the core thin bedded SILTY CLAYSTONE is observed repeatedly interbedded with medium bedded SILTSTONE. Slickensides are also observed in the lower part of the core, especially in CLAYSTONE and SILTSTONE. The bedding is mostly inclined, with big pyrite nodules up to 5 cm being very common.



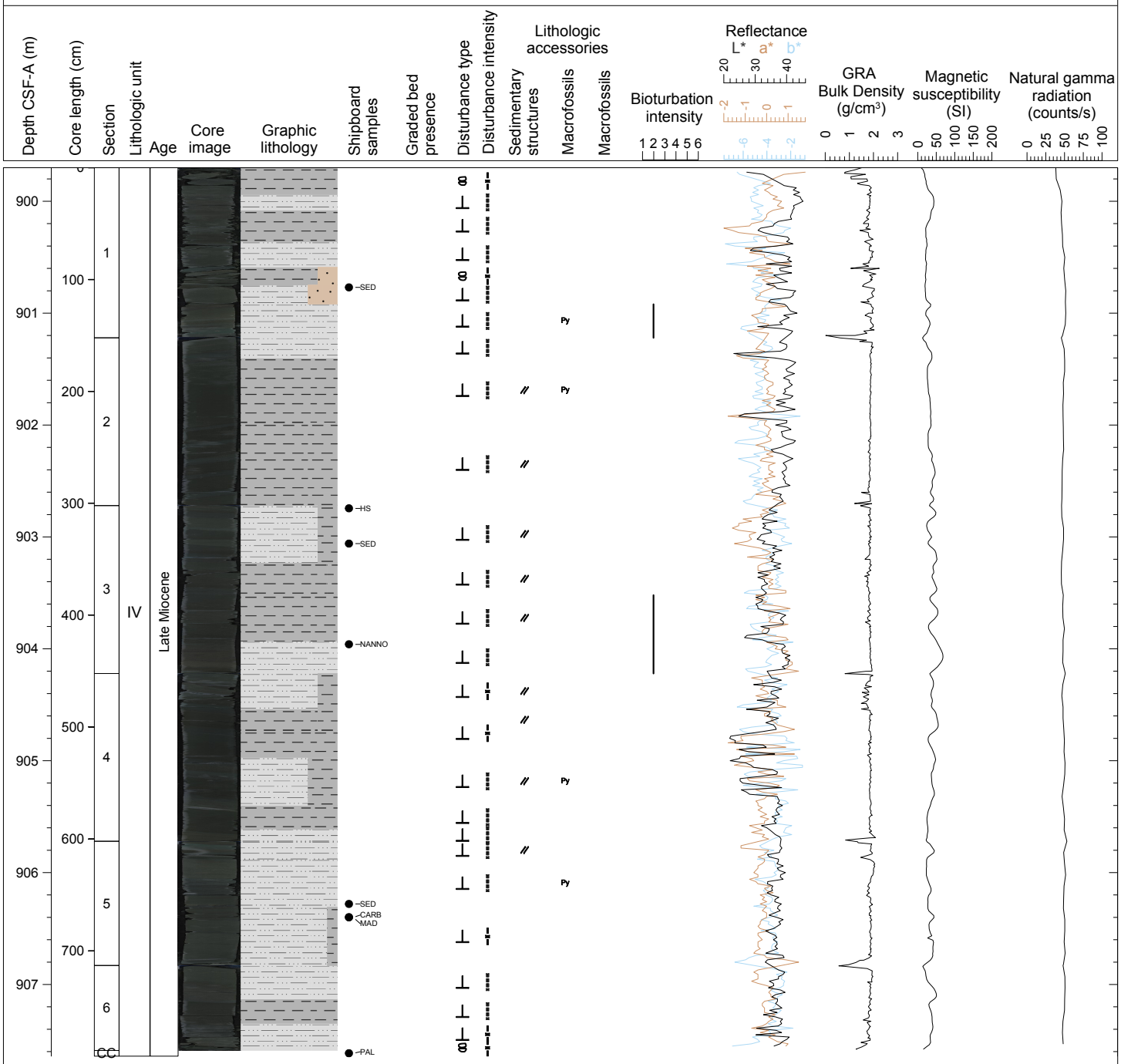
Hole 355-U1457C Core 74R, Interval 890.0-898.81 m (CSF-A)

CLAYSTONE, SILTY CLAYSTONE, SILTY CLAYSTONE WITH NANNOFOSSILS, SILTSTONE. Light greenish gray and light bluish SILTY CLAYSTONE are the dominant lithologies. CLAYSTONE is often found repeatedly interbedded with thin bedded SILTY CLAYSTONE. Bluish SILTY CLAYSTONE contains rare nannofossils. Greenish, medium to thickly bedded SILTYSTONE is also observed interbedded with thin SILTY CLAYSTONE intervals in the upper part of the core. Tilted bedding is common and folds are found in Section 5. Slickensides are observed in Section 2, 100-125 cm. Bluish SILTY CLAYSTONE grades up into CLAYSTONE but sharply overlies CLAYSTONE and SILTSTONE. No deformation is observed below Section 5, 69 cm where the core is composed of massive greenish CLAYSTONE. Pyrite nodules are commonly found in the core. CLAYSTONE comprises <70% of the core.



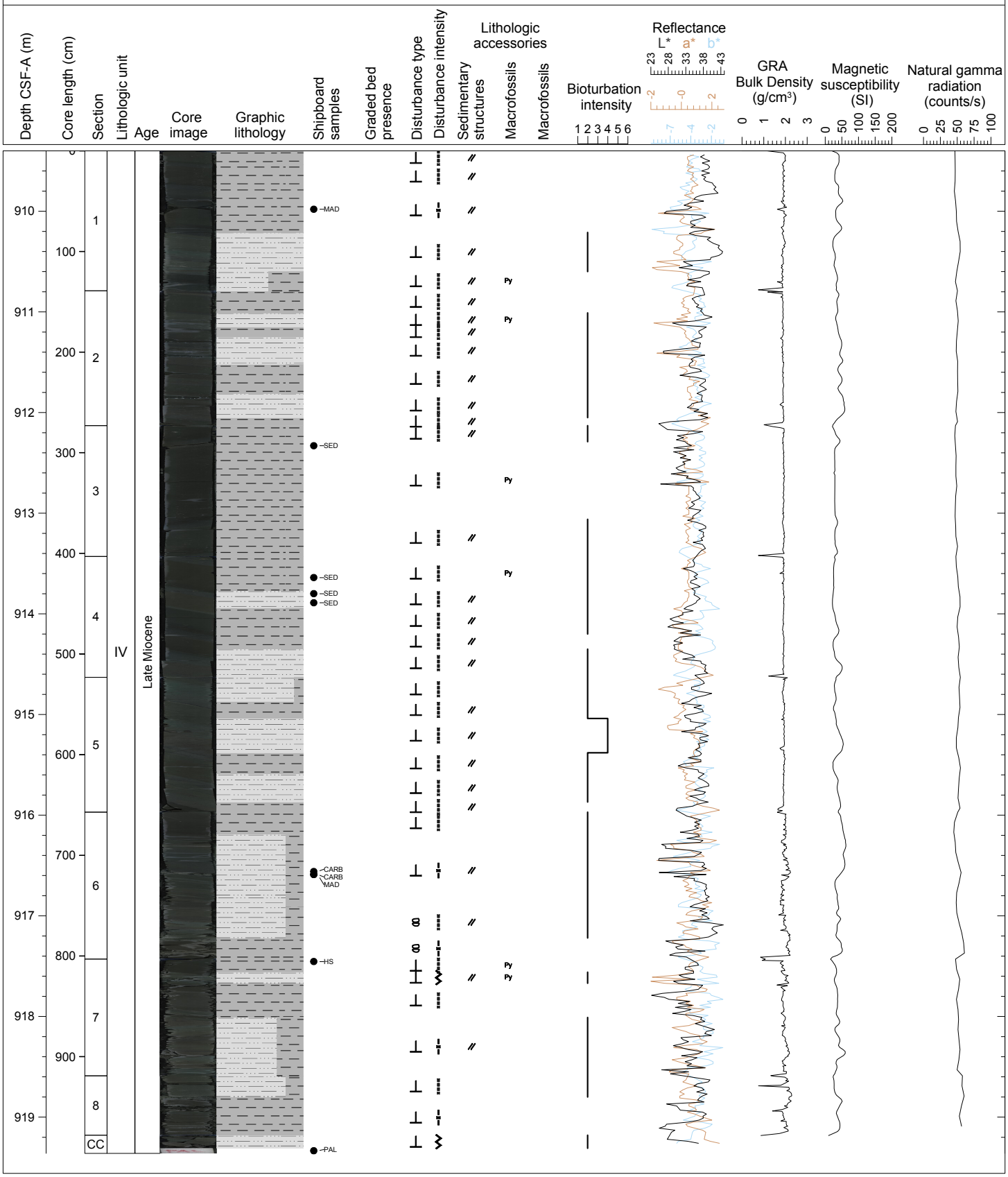
Hole 355-U1457C Core 75R, Interval 899.7-907.64 m (CSF-A)

CLAYSTONE, SILTY CLAYSTONE, SILTY CLAYSTONE WITH NANNOFOSSILS, SILTSTONE. Greenish gray CLAYSTONE and light bluish to brownish SILTY CLAYSTONE are the major lithologies. Medium bedded CLAYSTONE is repeatedly interbedded with thin bedded SILTY CLAYSTONE. Thin bedded (<20 cm) SILTSTONE is also interbedded with CLAYSTONE in the upper part of the core. Bedding is mostly inclined and highlighted by coarse grained layers. Bedding dip direction reverses from Section 3. Slickensides are associated with CLAYSTONE in the upper part of the core. Pyrite granules are often observed. CLAYSTONE comprises >70% of the core.



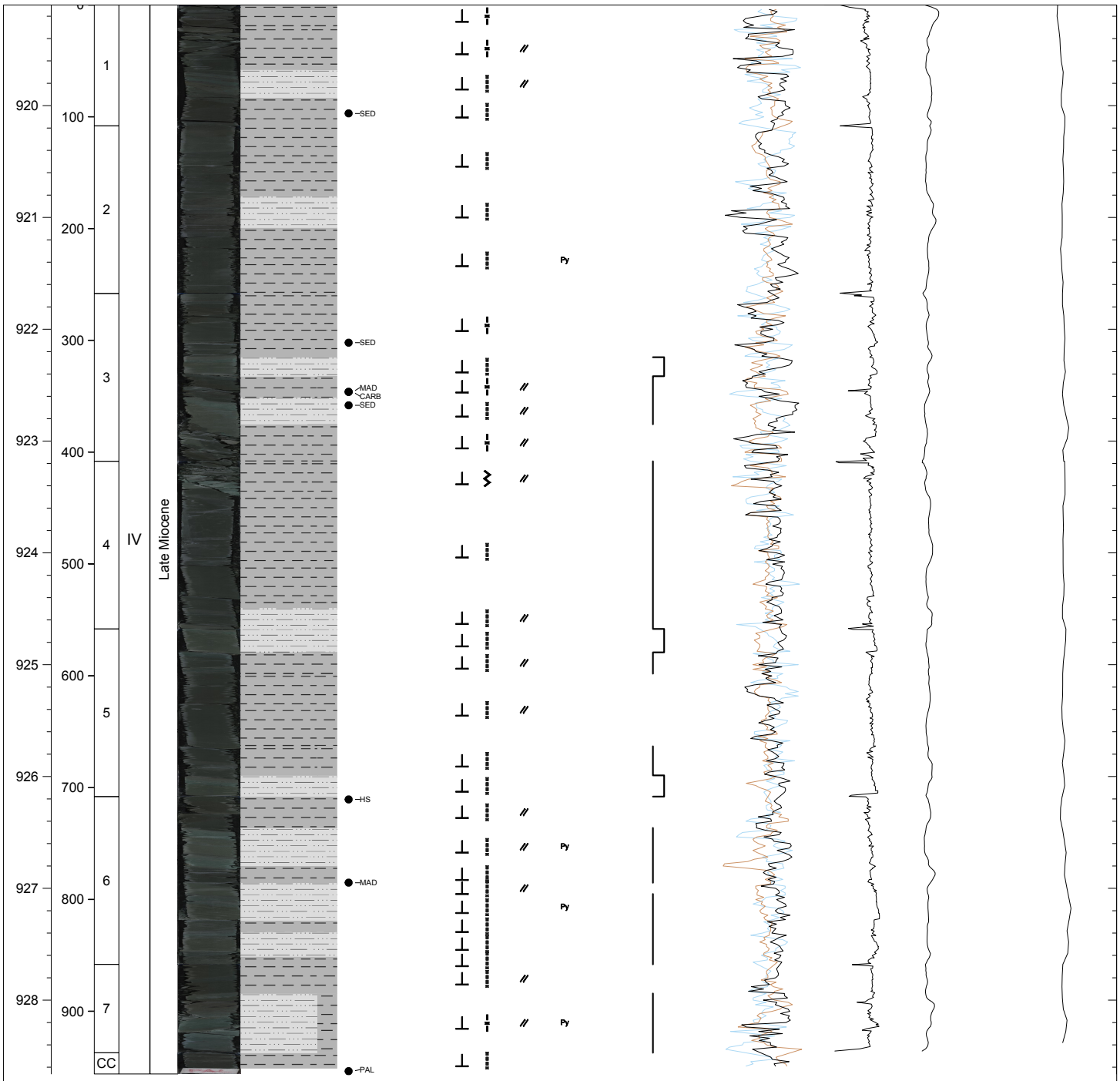
Hole 355-U1457C Core 76R, Interval 909.4-919.36 m (CSF-A)

CLAYSTONE, SILTY CLAYSTONE, SILTY CLAYSTONE WITH NANNOFOSSILS. Dark greenish CLAYSTONE, light greenish SILTY CLAYSTONE and light bluish SILTY CLAYSTONE WITH NANNOFOSSILS are the major lithologies. Bluish SILTY CLAYSTONE WITH NANNOFOSSILS and light greenish SILTY CLAYSTONE are often interbedded. Medium bedded CLAYSTONE is repeatedly interbedded with SILTY CLAYSTONE WITH NANNOFOSSILS and SILTY CLAYSTONE. Bedding is sharp, tilted and most clearly observed when the sediment is coarse grained. Bedding dip direction reverses in Sections 3 and 7. Pyrite grains and black patches are observed. CLAYSTONE comprises >80% of core.



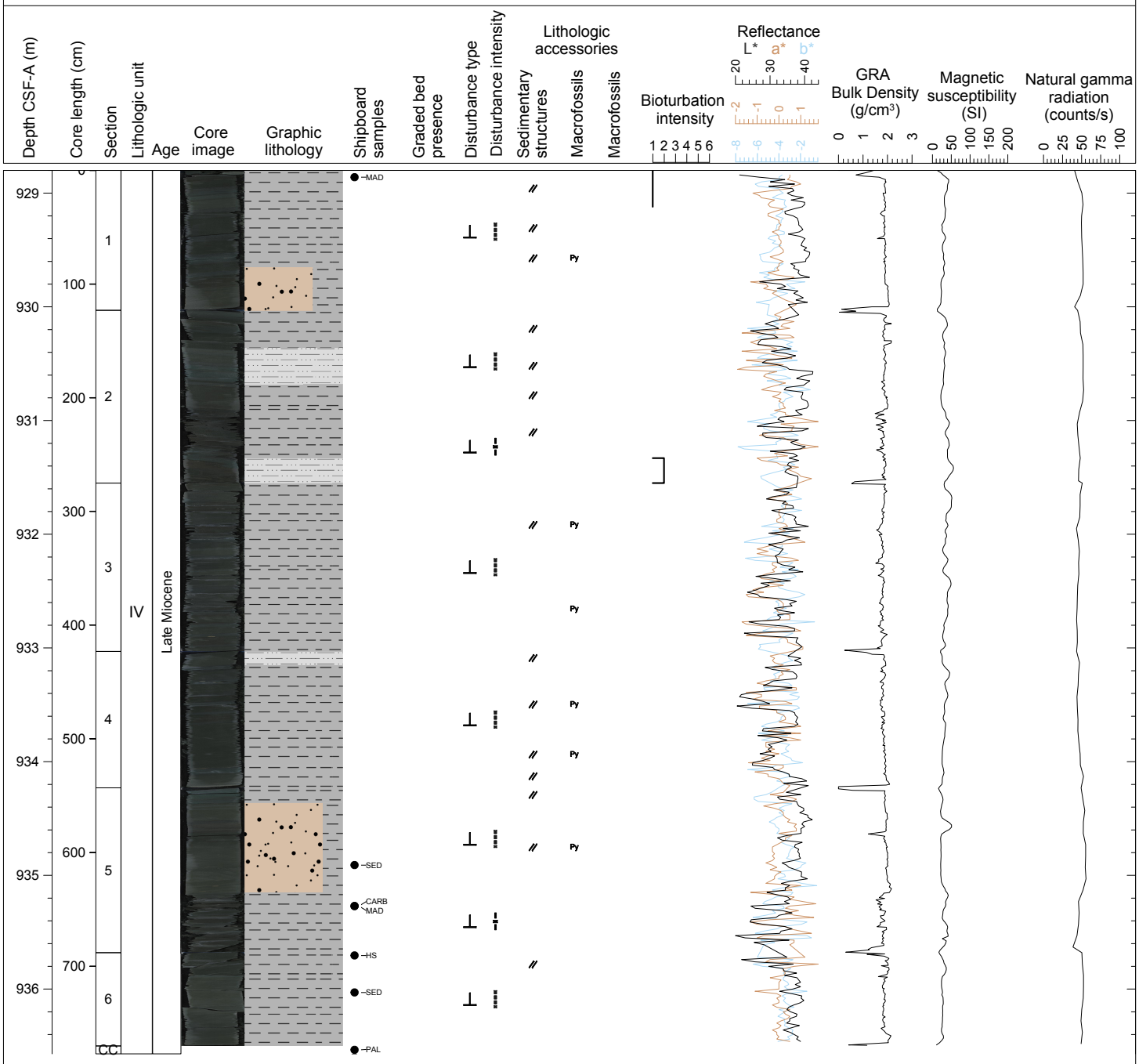
Hole 355-U1457C Core 77R, Interval 919.1-928.66 m (CSF-A)

CLAYSTONE, SILTY CLAYSTONE, SILTY CLAYSTONE WITH NANNOFOSSILS. Dark greenish gray CLAYSTONE, light brownish to light greenish SILTY CLAYSTONE and bluish SILTY CLAYSTONE WITH NANNOFOSSILS are the major lithologies. Medium to thickly bedded CLAYSTONE is often found interbedded with intervals of SILTY CLAYSTONE and/or SILTY CLAYSTONE WITH NANNOFOSSILS. Bedding tilted to nearly vertical, and sharply defined at the base of coarser grained beds. Folds are often observed. Dispersed pyrite is found through the core, as are layers of thin pyrite grains. Larger pyrite nodules and black patches are also observed. CLAYSTONE comprises >80% of core.



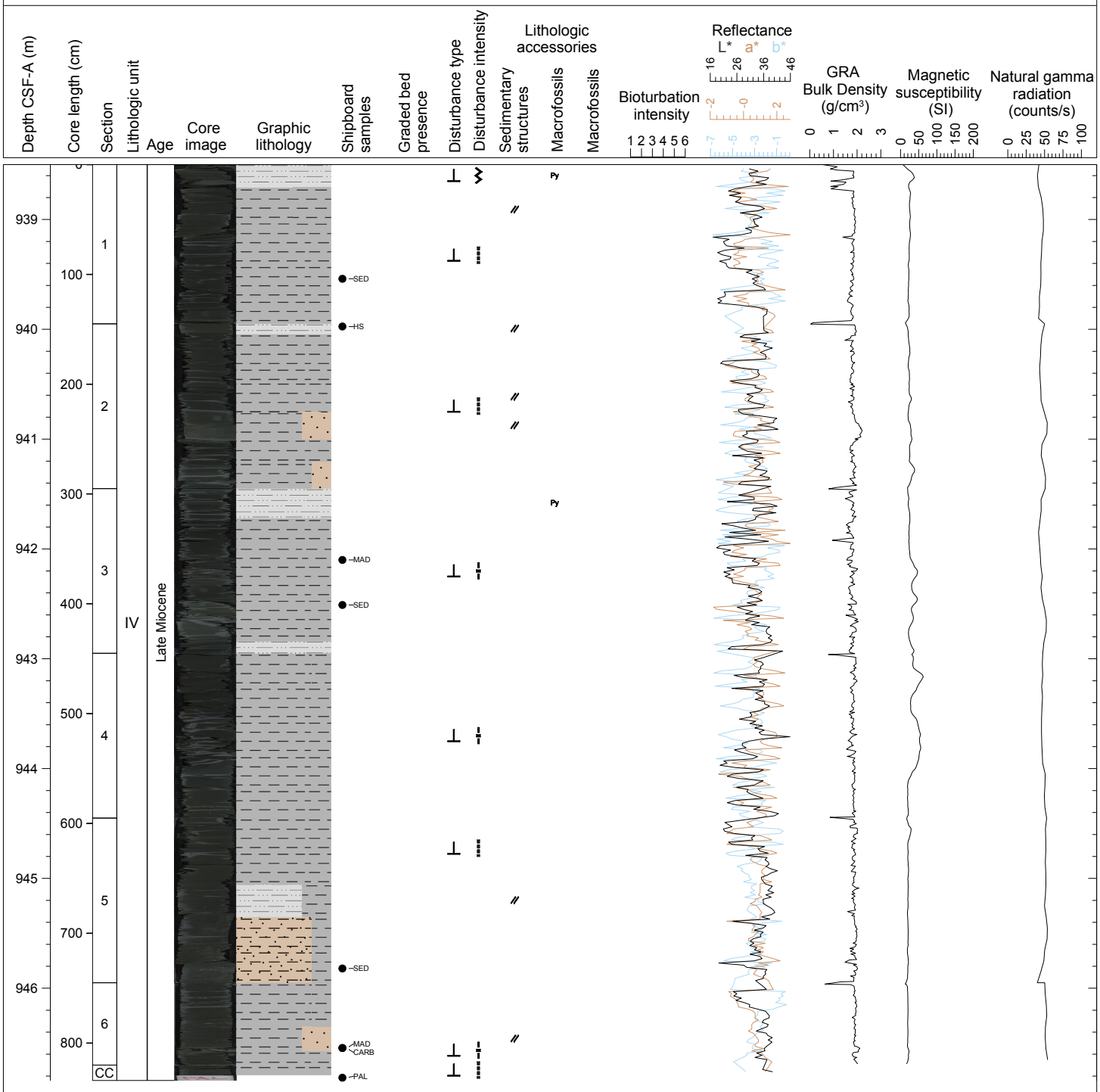
Hole 355-U1457C Core 78R, Interval 928.8-936.57 m (CSF-A)

CLAYSTONE, SILTY CLAYSTONE, SANDY SILTSTONE, FORAMINIFER-RICH CLAYSTONE, NANNOFOSSIL-RICH CLAYSTONE. Dark greenish gray, thick-bedded (30-70 cm), massive CLAYSTONE and light greenish gray, thick (>50 cm) SANDY SILTSTONE are the dominant lithologies. Dark greenish gray, thin (<10 cm), massive SILTY CLAYSTONE is interbdded with CLAYSTONE. Thin-bedded (<1 cm) FORAMINIFER-RICH CLAYSTONE is also interbedded with CLAYSTONE or SANDY SILTSTONE. Thin-bedded (~1 cm) NANNOFOSSIL-RICH CLAYSTONE intervals are also interleaved within CLAYSTONE in Section 4. Tilted bedding (~45 degree) is prevalent. Pyrite patches and layers are also frequent.



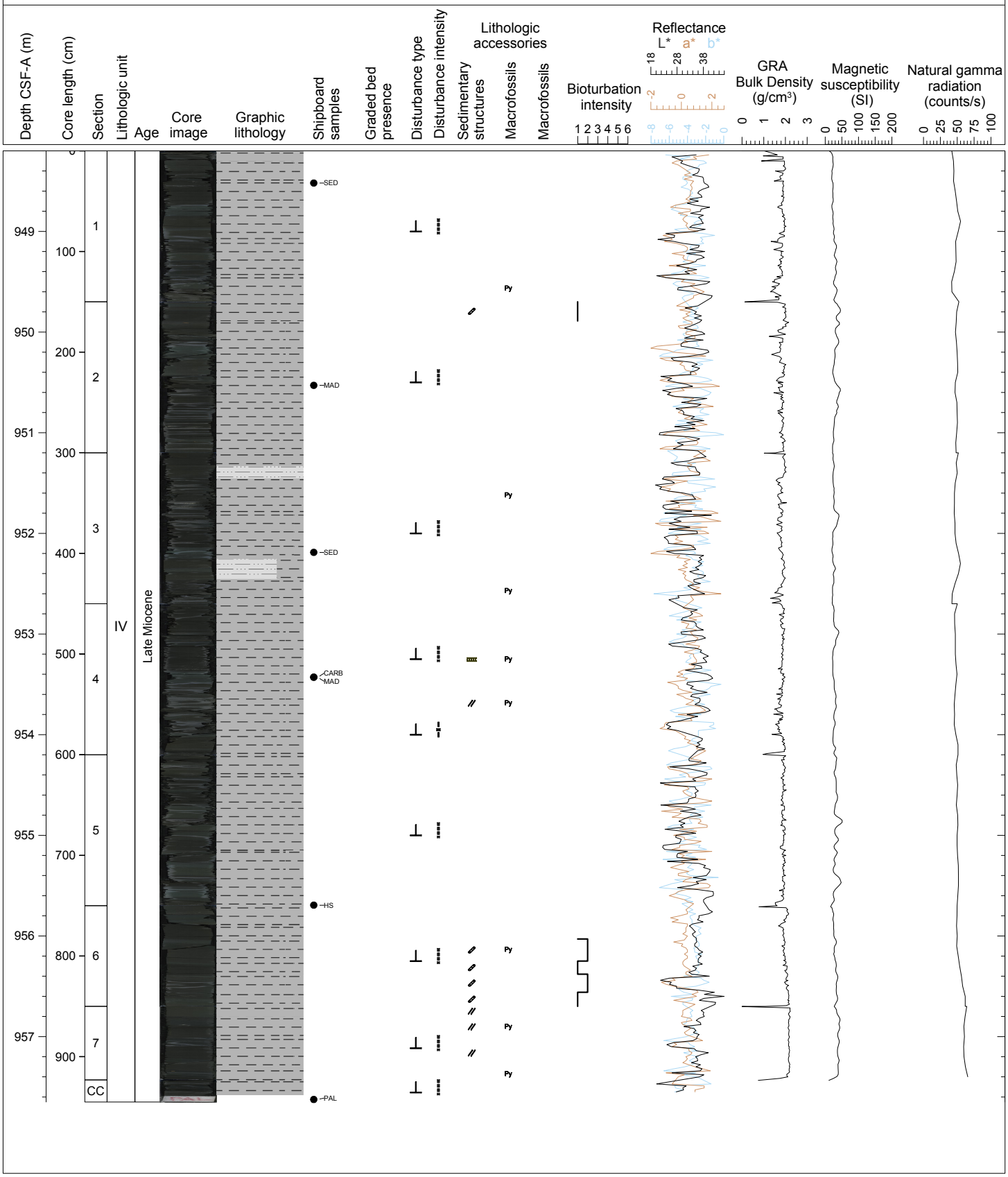
Hole 355-U1457C Core 79R, Interval 938.5-946.84 m (CSF-A)

CLAYSTONE, SILTY CLAYSTONE, CLAYEY SILTSTONE, CLAYSTONE WITH NANNOFOSSILS, SILTY CLAYSTONE WITH NANNOFOSSILS. Dark greenish gray, thick, massive CLAYSTONE and greenish gray, thin SILTY CLAYSTONE are the dominant lithologies. CLAYSTONE and SILTY CLAYSTONE are differentiated from CLAYSTONE WITH NANNOFOSSILS and SILTY CLAYSTONE WITH NANNOFOSSILS, which are thickly bedded in Section 5 and 6. Nannofossils occur as spotty inclusions within CLAYSTONE. A thin (<1 cm) SILTY CLAYSTONE is also interbedded with the CLAYSTONE and show a sharp, erosive boundary at the bottom. Most of bedding planes are tilted (10-40 degrees). Minor faults and folds are also seen. Pyrite is developed throughout.



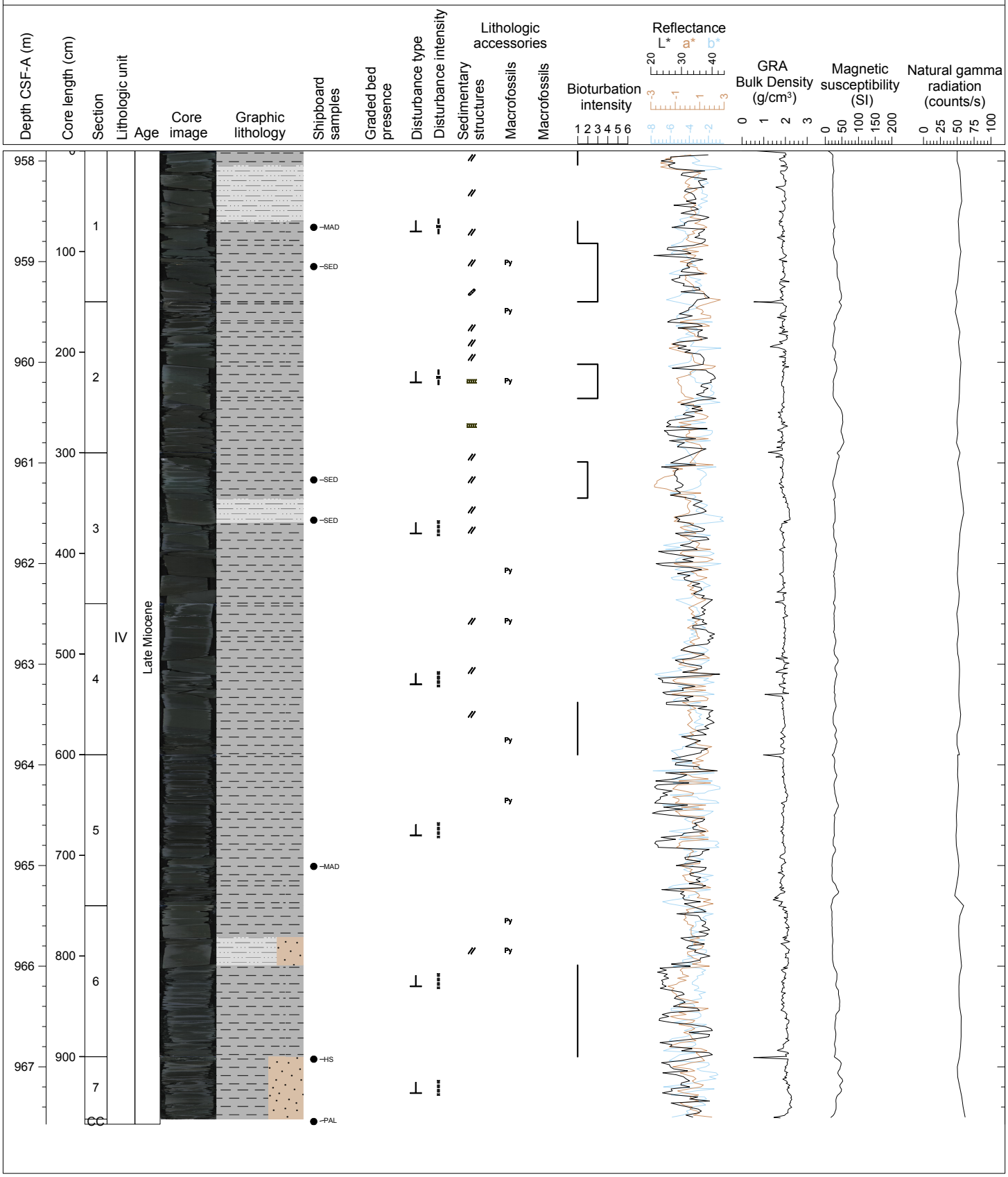
Hole 355-U1457C Core 80R, Interval 948.2-957.65 m (CSF-A)

CLAYSTONE, SILTY CLAYSTONE. Dark greenish gray or dark bluish gray, thick-bedded (10-70 cm), massive CLAYSTONE is dominant. Two differently colored type of CLAYSTONE are interbedded and show gradual transitions between them. CLAYSTONE has sparse to slight bioturbation locally. Thin bedded (~1 cm), dark gray, SILTY CLAYSTONE is interbedded with CLAYSTONE. Pyrite is observed throughout. Tilted bedding (10-20 degree) is clearly observed in Section 7.



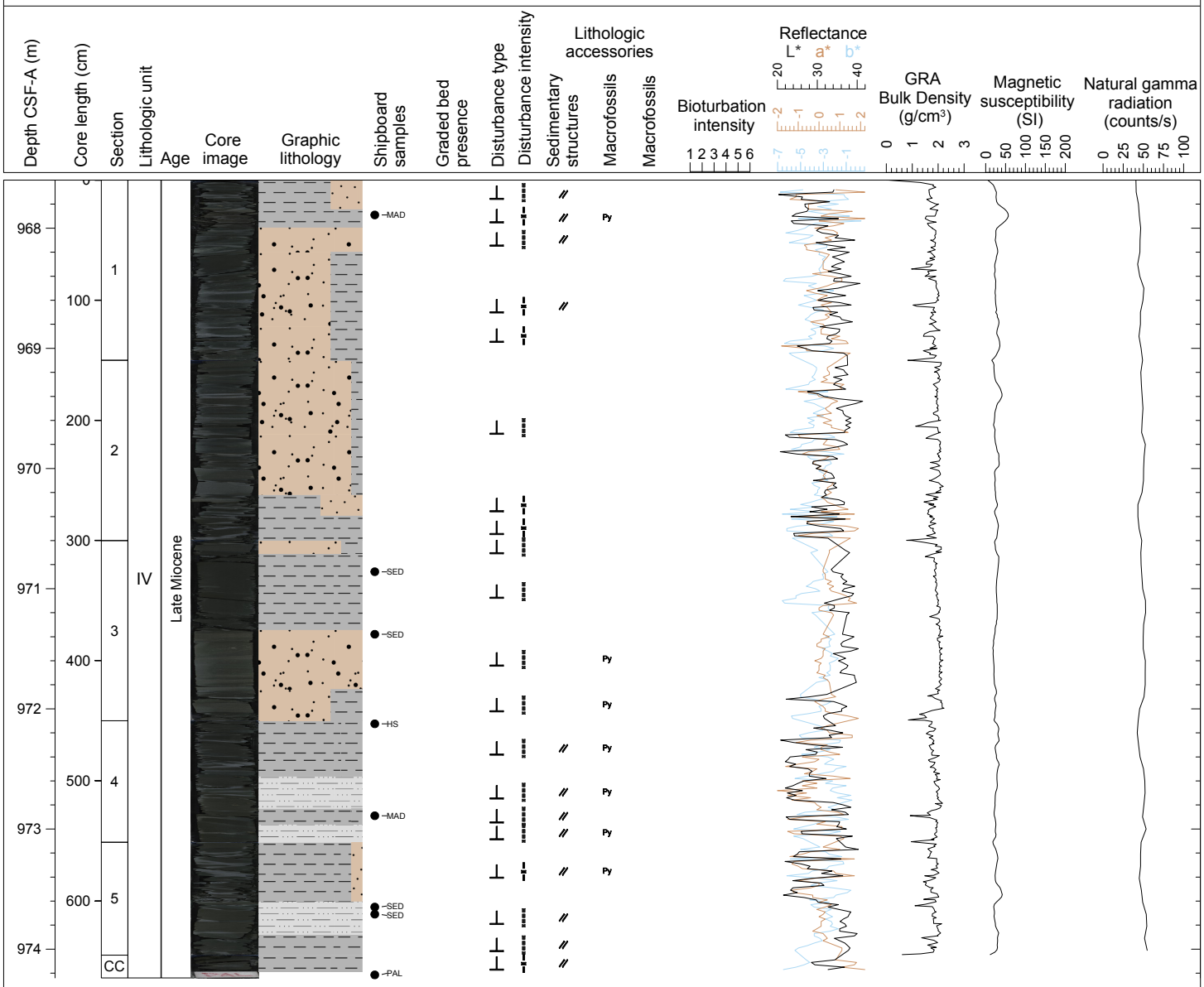
Hole 355-U1457C Core 81R, Interval 957.9-967.57 m (CSF-A)

CLAYSTONE, SILTY CLAYSTONE, SILTY CLAYSTONE WITH NANNOFOSSILS, CLAYEY SILTSTONE. CLAYSTONE is the dominanrt lithology dominant. CLAYSTONE is present as both dark bluish, thick-bedded (20-70 cm) massive or bioturbated intervals and as dark greenish gray thick (10 to 40 cm), massive intervals. These two types of CLAYSTONE are interbedded. Bedding is tilted to a high-angle (>45 degree). Dip directions may reverse to the opposite direction within a single section. Dark bluish gray CLAYSTONE shows more bioturbation including Zoophycos, together with pyrite inclusions. Thick-bedded (~15-25 cm) dark gray SILTY CLAYSTONE WITH NANNOFOSSILS is interbedded with CLAYSTONE, and shows erosive boundaries at the top of the CLAYSTONE intervals. Thin (<1 cm to 4 cm) bluish CLAYSTONE is interbedded with very thin dark gray CLAYEY SILTSTONE and these intervals are highly deformed.



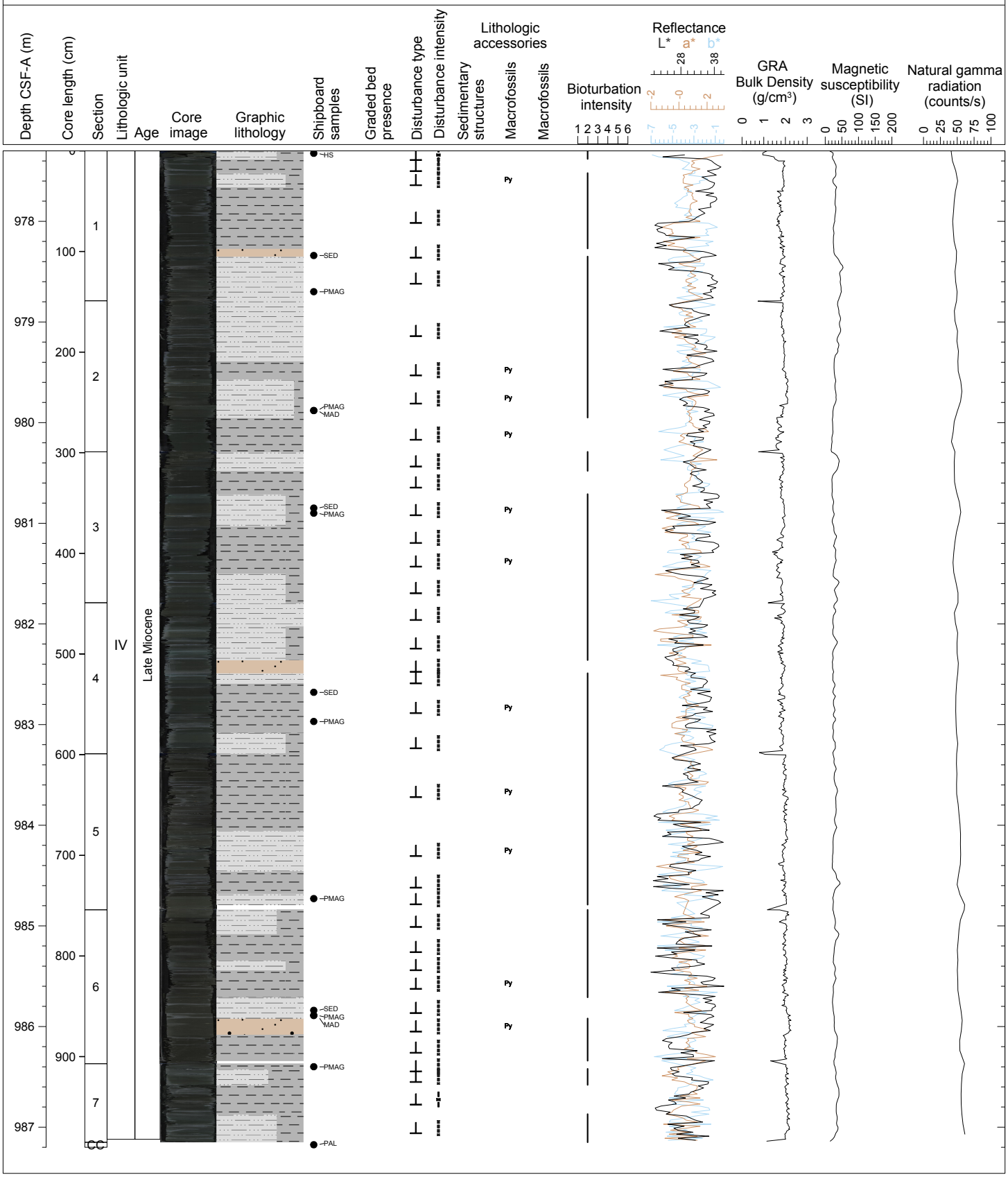
Hole 355-U1457C Core 82R, Interval 967.6-974.24 m (CSF-A)

CLAYSTONE, SILTY CLAYSTONE, SILTY CLAYSTONE WITH NANNOFOSSILS, SANDY SILTSTONE. Dark greenish gray CLAYSTONE interbedded with bluish SILTY CLAYSTONE and gray SILTY CLAYSTONE WITH NANNOFOSSILS are the major lithologies. Thinly bedded SILTY CLAYSTONE is mostly found innterbedded with CLAYSTONE and often associated with thin-bedded light color layers of normally graded SANDY SILTSTONE. These cycles of sediment are often deformed. SANDY SILTSTONE contains calcite crystals. Interbedded CLAYSTONE, SILTY CLAYSTONE, SANDY SILTSTONE are chaotically mixed and deformed together in the upper part of the core. Tilted bedding, folding and slickensides are common in the upper part of the core. Pyrite nodules are often observed. CLAYSTONE comprises <60 % of core.



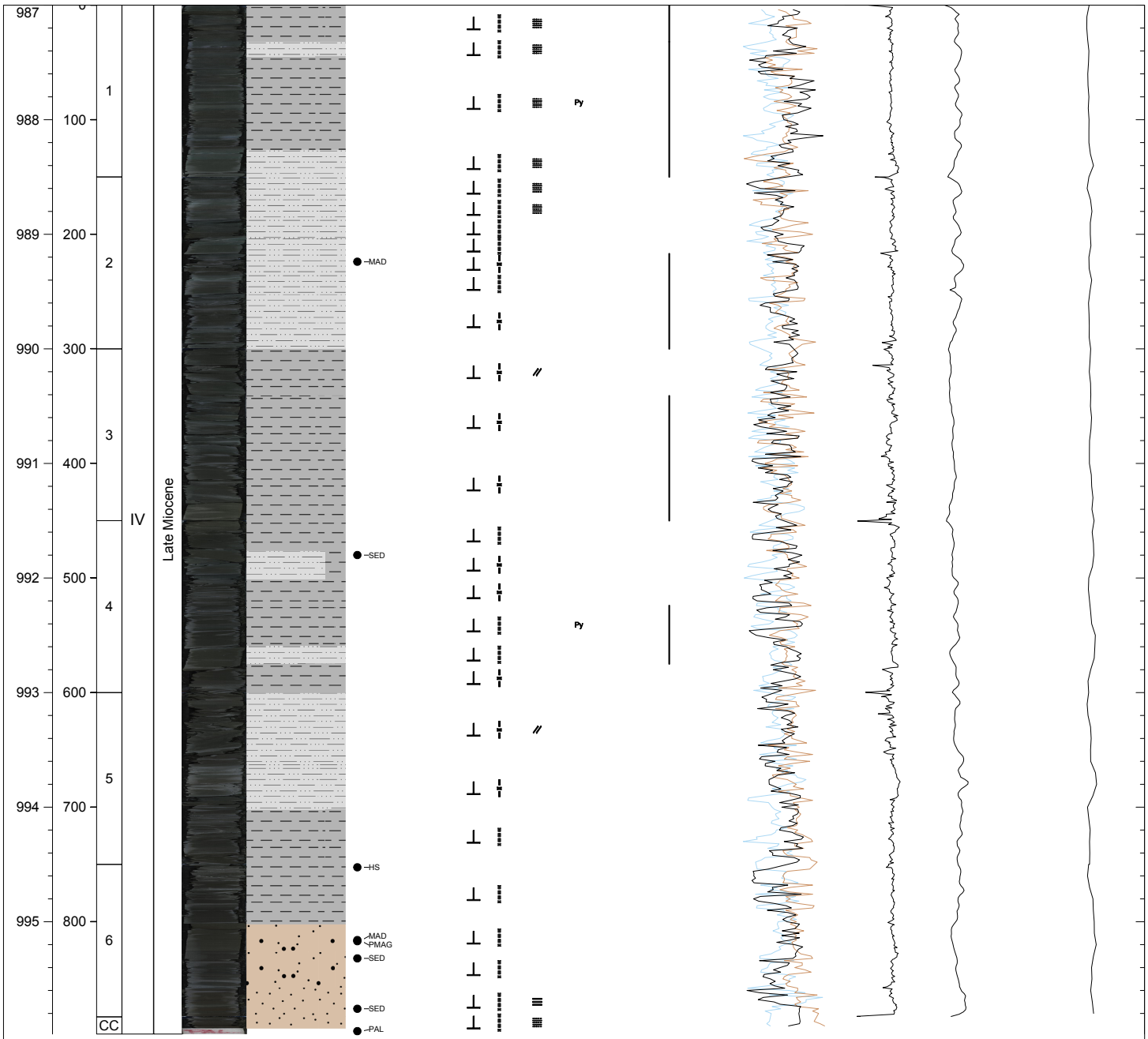
Hole 355-U1457C Core 83R, Interval 977.3-987.2 m (CSF-A)

CLAYSTONE, SILTY CLAYSTONE, SILTY CLAYSTONE WITH NANNOFOSSILS, SANDY SILTSTONE. Dark greenish to blackish, medium bedded CLAYSTONE is the dominant lithology. Thin-bedded bluish SILTY CLAYSTONE WITH NANNOFOSSILS and greenish SILTY CLAYSTONE are associated and often found interbedded within CLAYSTONE intervals. The bedding is mostly sharp, sub-horizontal to horizontal and most clearly observed at the base of graded coarser beds. Tiny pyrite grains with some pyrite nodules are dispersed throughout the core. SANDY SILTSTONE is thin to medium bedded and contains microscopic crystalline calcite in the lower part of the core. SILTY CLAYSTONE WITH NANNOFOSSILS comprises <20% of the core.



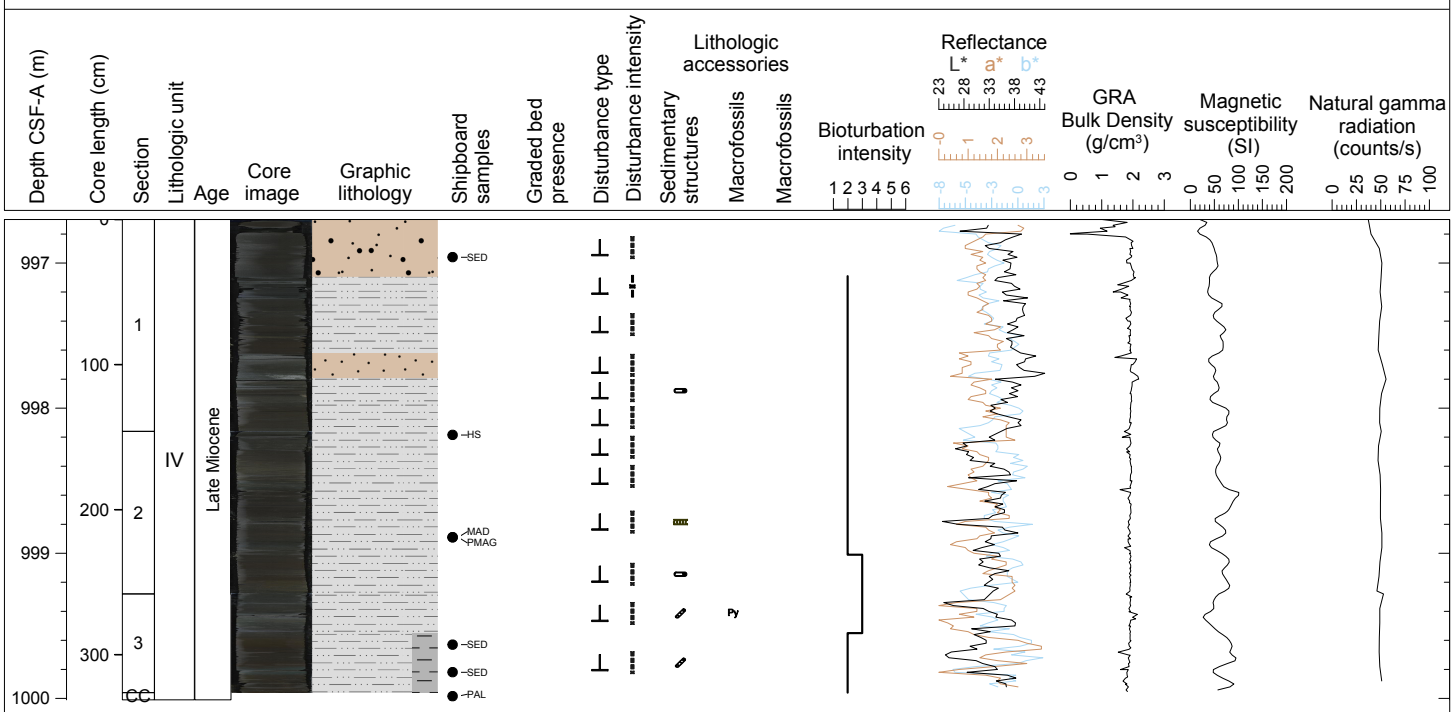
Hole 355-U1457C Core 84R, Interval 987.0-995.98 m (CSF-A)

CLAYSTONE, SILTY CLAYSTONE, SILTSTONE, SANDY SILTSTONE WITH CALCITE, SILTY CLAYSTONE WITH NANNOFOSSILS, Dark to light greenish gray CLAYSTONE interbedded with bluish to light brownish SILTY CLAYSTONE is the dominant lithology. Bluish SILTY CLAYSTONE WITH NANNOFOSSILS and brownish SILTY CLAYSTONE are often associated and interbedded together within CLAYSTONE. Bioturbation is limited to bluish SILTY CLAYSTONE. Planolites is the most common burrow type. Nearly vertical bedding and slickensides are very common. Microscopic calcite crystallization is observed in Section 6 within beds of SANDY SILTSTONE WITH CALCITE. Brownish-bluish color banding is observed in the bottom part of the core, together with parallel lamination. CLAYSTONE comprises <70% of the core.



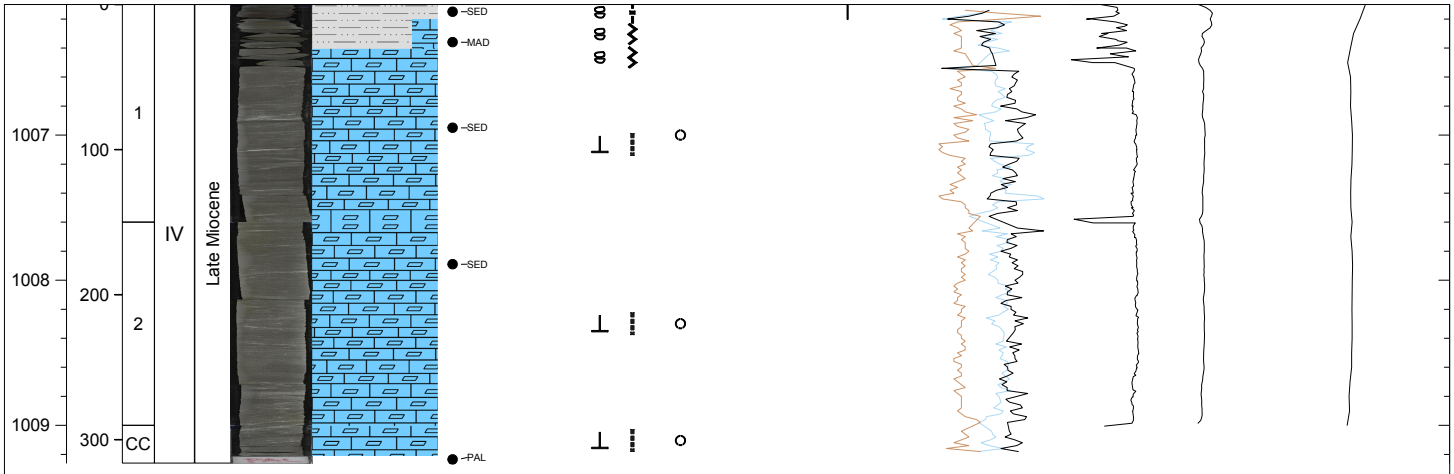
Hole 355-U1457C Core 85R, Interval 996.7-1000.01 m (CSF-A)

SANDY SILTSTONE, SILTY CLAYSTONE WITH NANNOFOSSILS, SILTY CLAYSTONE, SILTSTONE WITH CALCITE. Light brownish SILTY CLAYSTONE and SILTY CLAYSTONE WITH NANNOFOSSILS are the dominant lithologies. Microscopic calcite crystals are seen locally in the core. Medium bedded SANDY SILTSTONE WITH CALCITE and SILTSTONE WITH CALCITE are observed in Section 1. Very thin layers of SILTY CLAYSTONE are found interbedded in SANDY SILTSTONE WITH CALCITE. Bioturbation is limited to SILTY CLAYSTONE and SILTY CLAYSTONE WITH NANNOFOSSILS. Burrow types include Planolites and vertical Skolithos-type burrows. Color variations are observed in SILTY CLAYSTONE. Bedding is horizontal to sub-horizontal (<20 degrees). Large pyrite nodules are also observed in the core.



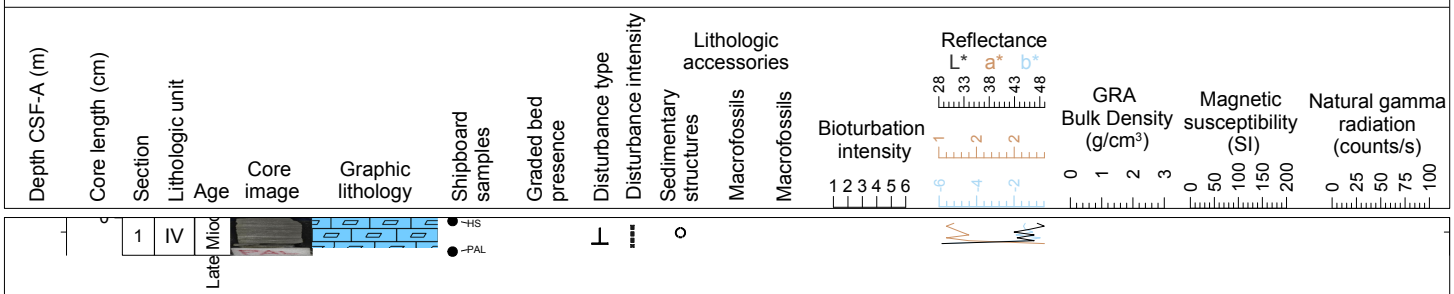
Hole 355-U1457C Core 86R, Interval 1006.1-1009.26 m (CSF-A)

SILTY CLAYSTONE, CALCILUTITE. Gray massive CALCILUTITE is the dominant lithology. SILTY CLAYSTONE occurs only at the top of the core. Fine-grained CALCILUTITE is observed with lens and pod-shaped patches of coarser grained calcite. Lamination with the CALCILUTITE is gently inclined (ca. 30 degrees) and is picked out by lighter carbonate rich layers. Soft-sediment folding at the cm and sub-cm scale is observed. CALCILUTITE is very indurated and comprises >90% of the core.



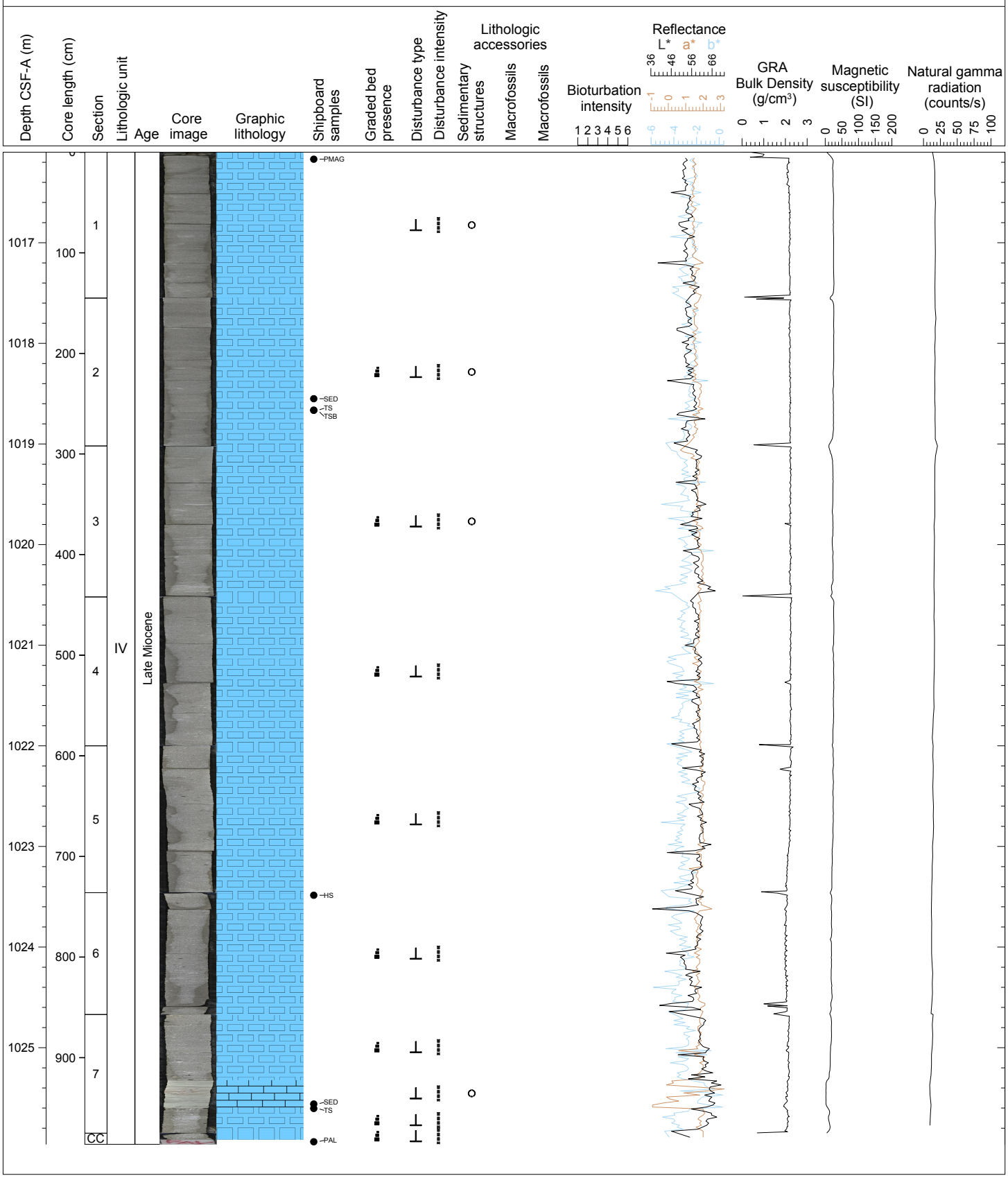
Hole 355-U1457C Core 87R, Interval 1011.1-1011.36 m (CSF-A)

CALCILUTITE. Gray color CALCILUTITE is the dominant lithology. The fine grained CALCILUTITE is observed to have thin white colored layers enriched calcite fragments of sandy grain size. Dark-light color banding is irregular and anastamosing, suggestive of soft-sediment deformation and shearing.



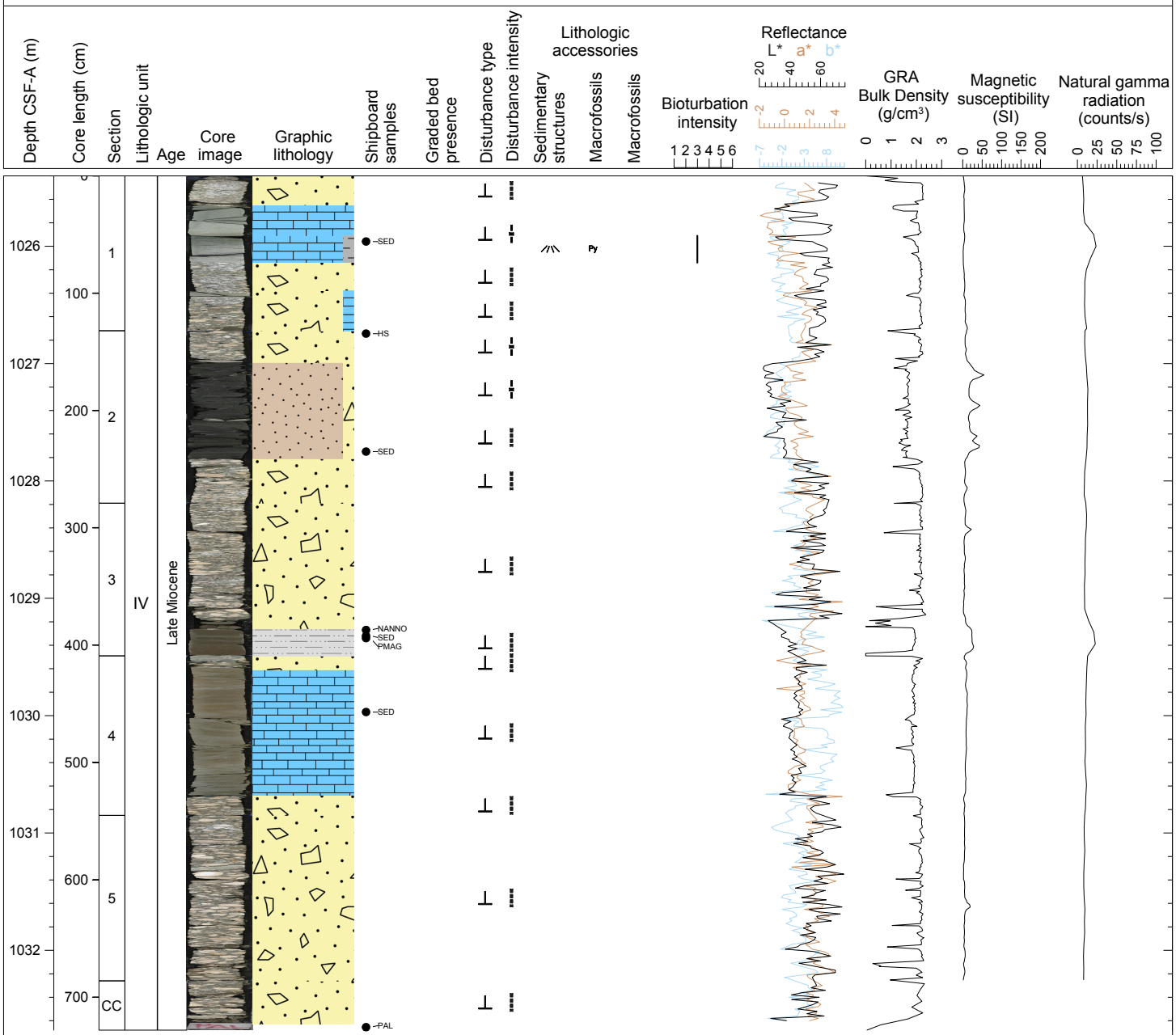
Hole 355-U1457C Core 88R, Interval 1016.1-1025.96 m (CSF-A)

CALCARENITE, LIMESTONE. Gray, very thickly bedded and normal graded CALCARENITE is the major lithology. Lensoid and pod-like clasts or color patches are very common. The clast size increases downcore. In the lower four sections granules of calcite, claystone, and green altered volcanic clasts are observed and grain size increases to a very coarse sand (>1 cm), with poor sorting. The fabric is matrix supported. Medium bedded limestone in Section 7 has cracks >1 cm across and infilled with the surrounding sediment. The sediment coarsens upward under the limestone bed, suggesting that it is a raft within the CALCARENITE and not in place.



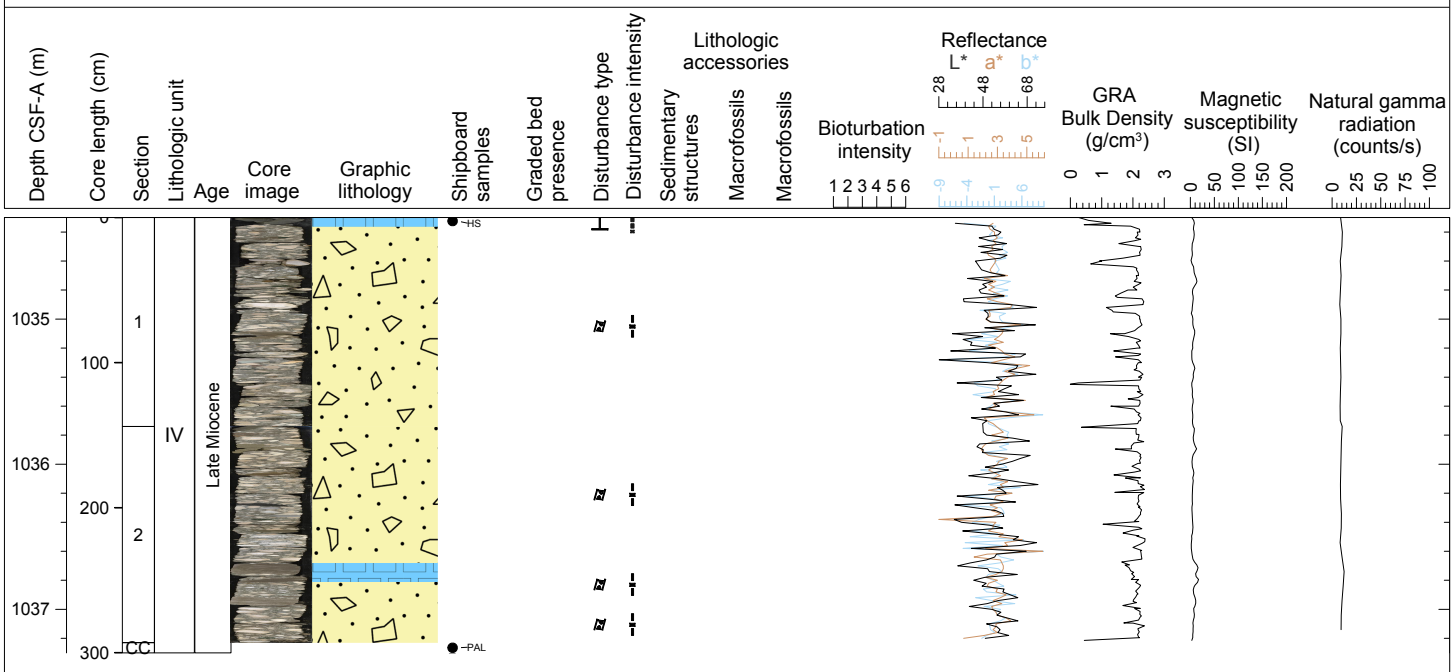
Hole 355-U1457C Core 89R, Interval 1025.4-1032.68 m (CSF-A)

BRECCIA, LIMESTONE, SILTSTONE WITH CALCITE, SILTY CLAYSTONE. Blackish SILTSTONE WITH CALCITE, Greenish brown LIMESTONE and carbonate BRECCIA are the dominant lithologies. The BRECCIA clasts are dominantly whitish or pinkish limestone with lesser amounts of claystone, calcite, volcanic fragments. The breccia clasts are angular to sub-angular, poorly sorted, and suspended in a clay and carbonate matrix. The clast size increases downcore, and varies from granules to pebbles (<7 cm). Limestone clasts are found indenting one another. Blackish SILTSTONE WITH CALCITE shows microscopic calcite crystals on the cut core surface in Section 2. Thickly bedded LIMESTONE with white patches of coarser material is observed in Sections 3 and 4 and shows an inclined fabric. The LIMESTONE and SILTSTONE WITH CALCITE intervals may be rafts of sedimentary rocks within a coarse BRECCIA.



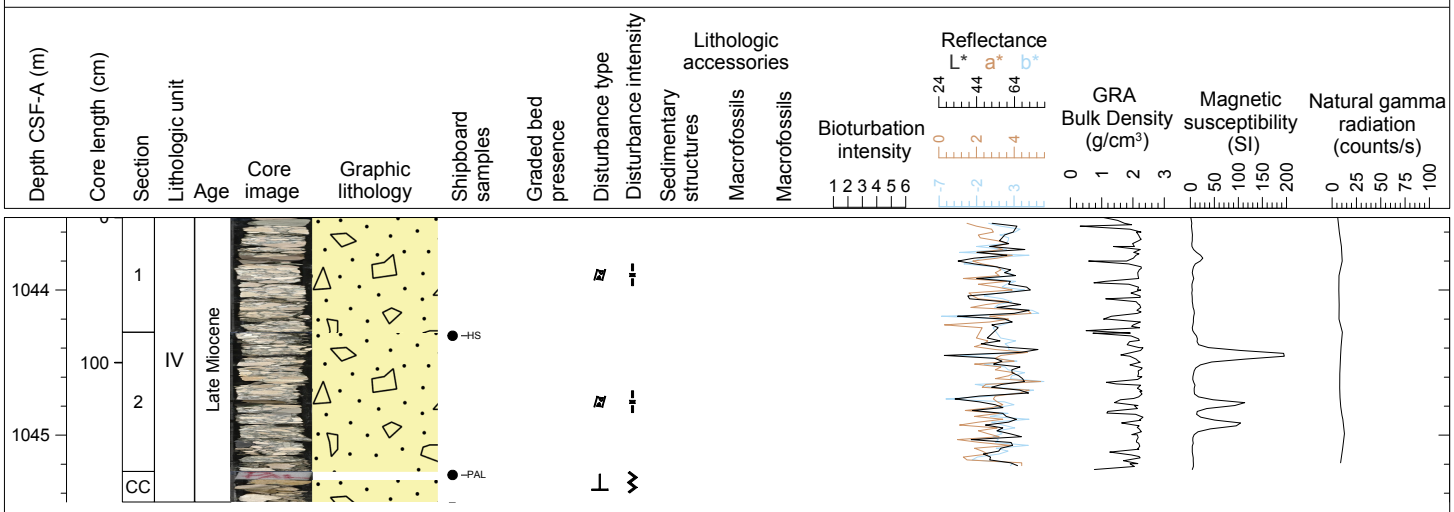
Hole 355-U1457C Core 90R, Interval 1034.3-1037.3 m (CSF-A)

CALCARENITE, BRECCIA. The core is dominated by BRECCIA. A short interval of CALCARENITE is observed at the top of the core and in Section 2, 94-107 cm. BRECCIA clasts are dominant by pebble-sized, sub-angular limestone clasts, with other clasts of brown and blackish claystone, volcanic rocks and occasional other lithologies suspended in a clay and carbonate mixed matrix. Limestone clasts comprise ~90% of the total. Clasts are up to 8 cm across. No clear grading is noted and the sorting is very poor. The BRECCIA is matrix supported and not well cemented. Locally, limestone clasts are seen to indent one another due to pressure solution.



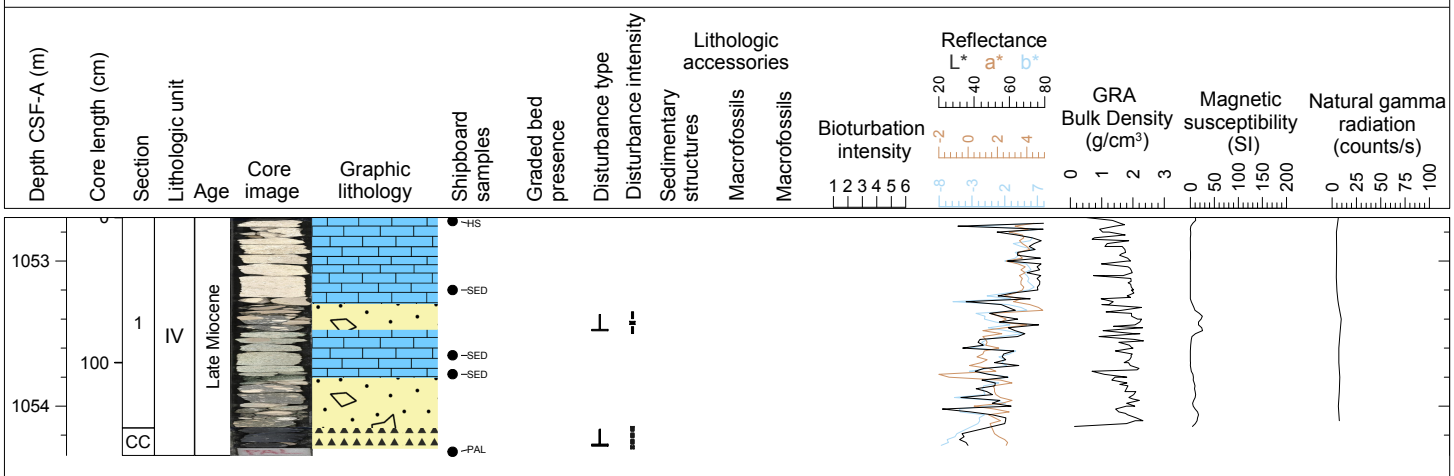
Hole 355-U1457C Core 91R, Interval 1043.5-1045.46 m (CSF-A)

BRECCIA. The core is dominated by BRECCIA. BRECCIA clasts are dominated by pebble-sized (<5 cm), sub-angular limestone clasts, with other small clasts of brown and blackish claystone, volcanic rocks and occasional other lithologies. There is a minor clay and carbonate mixed matrix. Limestone clasts comprise ~90% of the total. No clear grading is noted and the sorting is very poor. Locally, limestone clasts are seen to indent one another due to pressure solution.



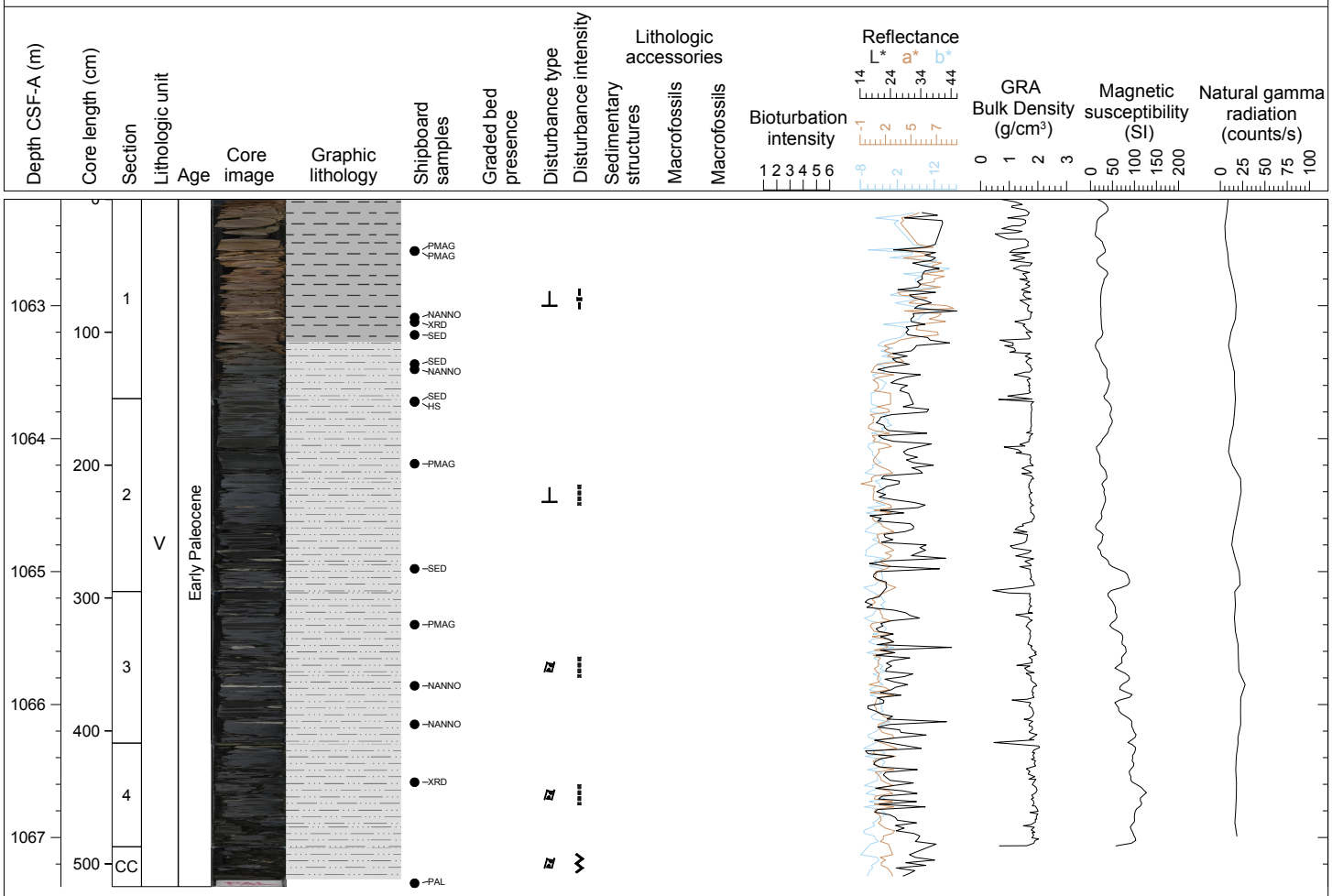
Hole 355-U1457C Core 92R, Interval 1052.7-1054.34 m (CSF-A)

LIMESTONE, BRECCIA. LIMESTONE and BRECCIA are the dominant lithologies, and are interbedded in Section 1. Pale tan-colored LIMESTONE consists of granule-sized grains and is porous. The LIMESTONE may be carbonate composed of algae-precipitated material. Another interval of light gray porous LIMESTONE from 78 to 108 cm, Section 1, consists of granule to pebble sized clasts with minor detrital particles. Two short intervals of BRECCIA show that BRECCIA clasts are dominant by pebble-sized, sub-angular limestone clasts. Limestone clasts comprise ~90% of the total and are up to 8 cm across, suspended in a muddy matrix. No clear grading is noted and the sorting is very poor. The core catcher consists of dark gray CHERT with cryptocrystalline crystals.



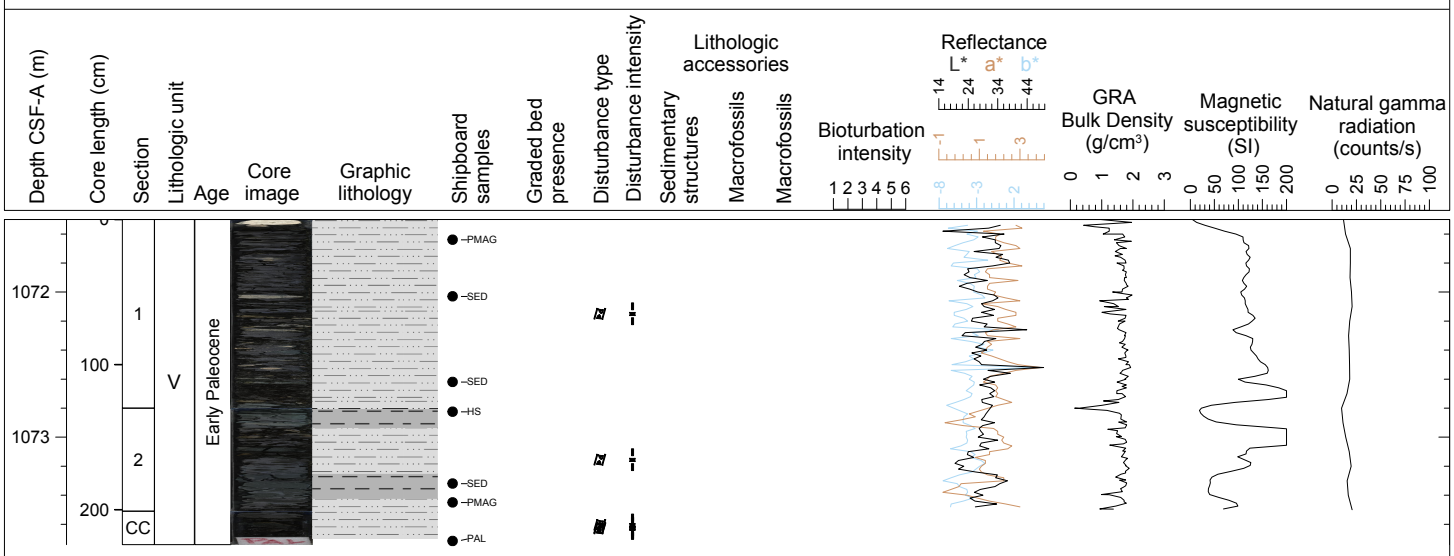
Hole 355-U1457C Core 93R, Interval 1062.2-1067.37 m (CSF-A)

CLAYSTONE, SILTY CLAYSTONE. Dark brown massive CLAYSTONE and dark greenish gray SILTY CLAYSTONE dominate this core. CLAYSTONE is overlain by SILTY CLAYSTONE. Dark brown CLAYSTONE shows a very amount of interbedded dark greenish gray SILTY CLAYSTONE. The CLAYSTONE contains black Mn discontinuous layers and nodules, a few mm thick as well as sub-horizontal layers which are faded to a light tan color. Dark greenish gray SILTY CLAYSTONE shows small (1 to 3 cm) gray inclusions that are identified as carbonate-cemented nodules and rare parallel bands.



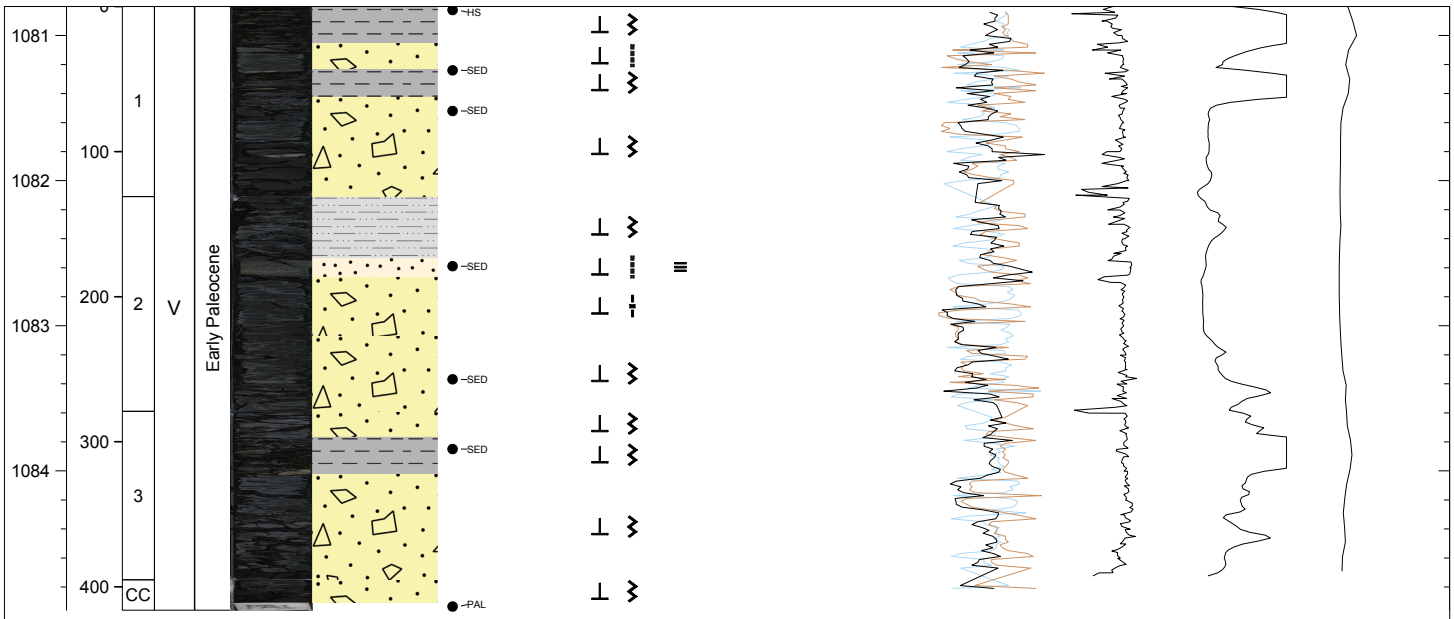
Hole 355-U1457C Core 94R, Interval 1071.5-1073.74 m (CSF-A)

CLAYSTONE, SILTY CLAYSTONE. Dark greenish gray, massive SILTY CLAYSTONE with gray sandy calcareous interbeds and pods dominates Section 1. Section 2 consists of an alternating interbeds of bluish green CLAYSTONE and dark greenish gray SILTY CLAYSTONE. Core is heavily fractured by drilling so that it is difficult to observe sedimentary structures. The top of the core is marked by a clast of limestone that has fallen into the core from shallower levels.



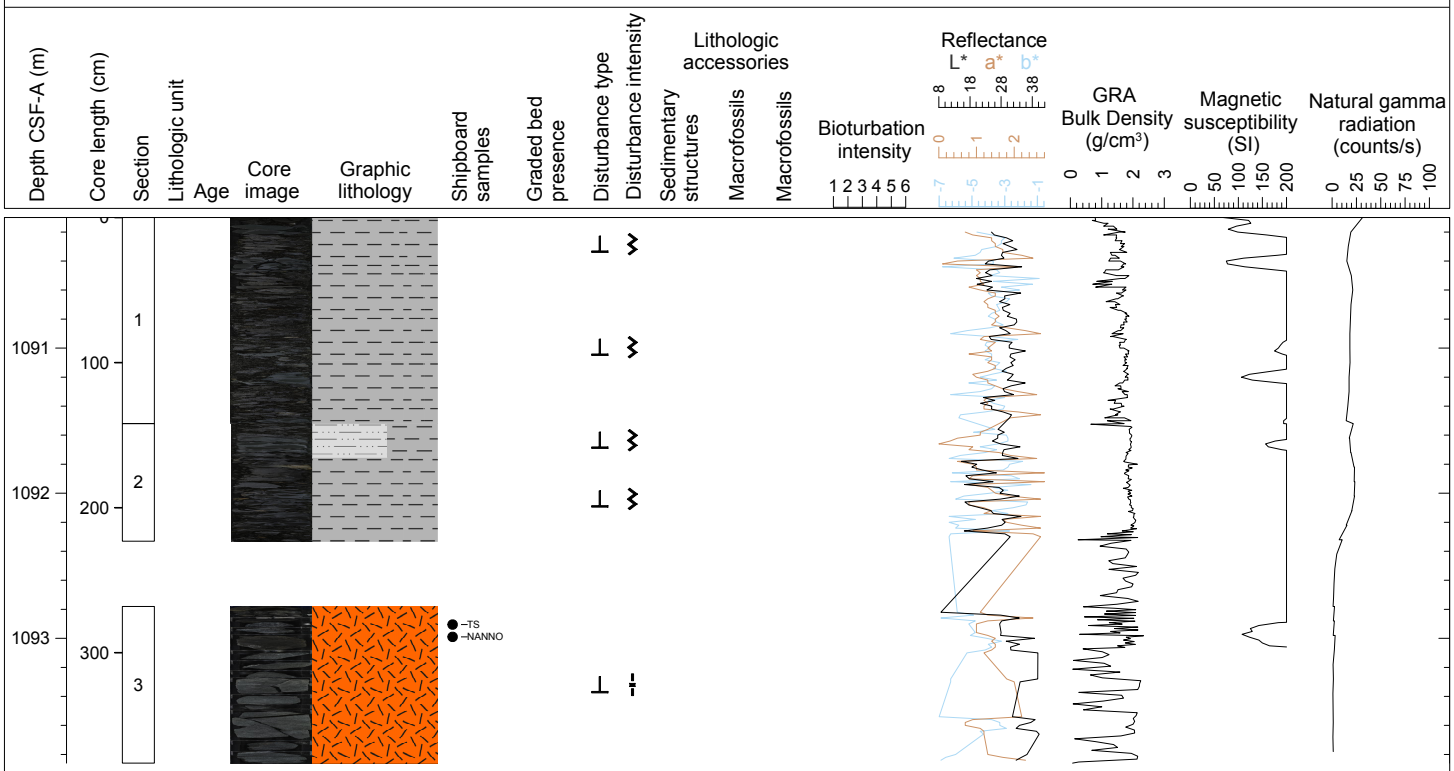
Hole 355-U1457C Core 95R, Interval 1080.8-1084.96 m (CSF-A)

BRECCIA, SANDSTONE WITH CALCITE, CLAYSTONE, SILTY CLAYSTONE. Core is dominated by massive, dark gray to lack volcaniclastic sediments. BRECCIA and CLAYSTONE are the dominant lithologies. There are mostly massive but display a general fining upward pattern. BRECCIA and SANDSTONE have sharp, erosive bases. The SANDSTONE WITH CALCITE has well defined parallel laminations but only represents a 12-cm-thick bed within a overall fining cycle. Calcite mineralized layers, up to 2 cm thick with a light brown color are found with the CLAYSTONE. One of the calcite layers also includes sphalerite crystals. Sediment structures are difficult to see because of the strong drilling brecciation.

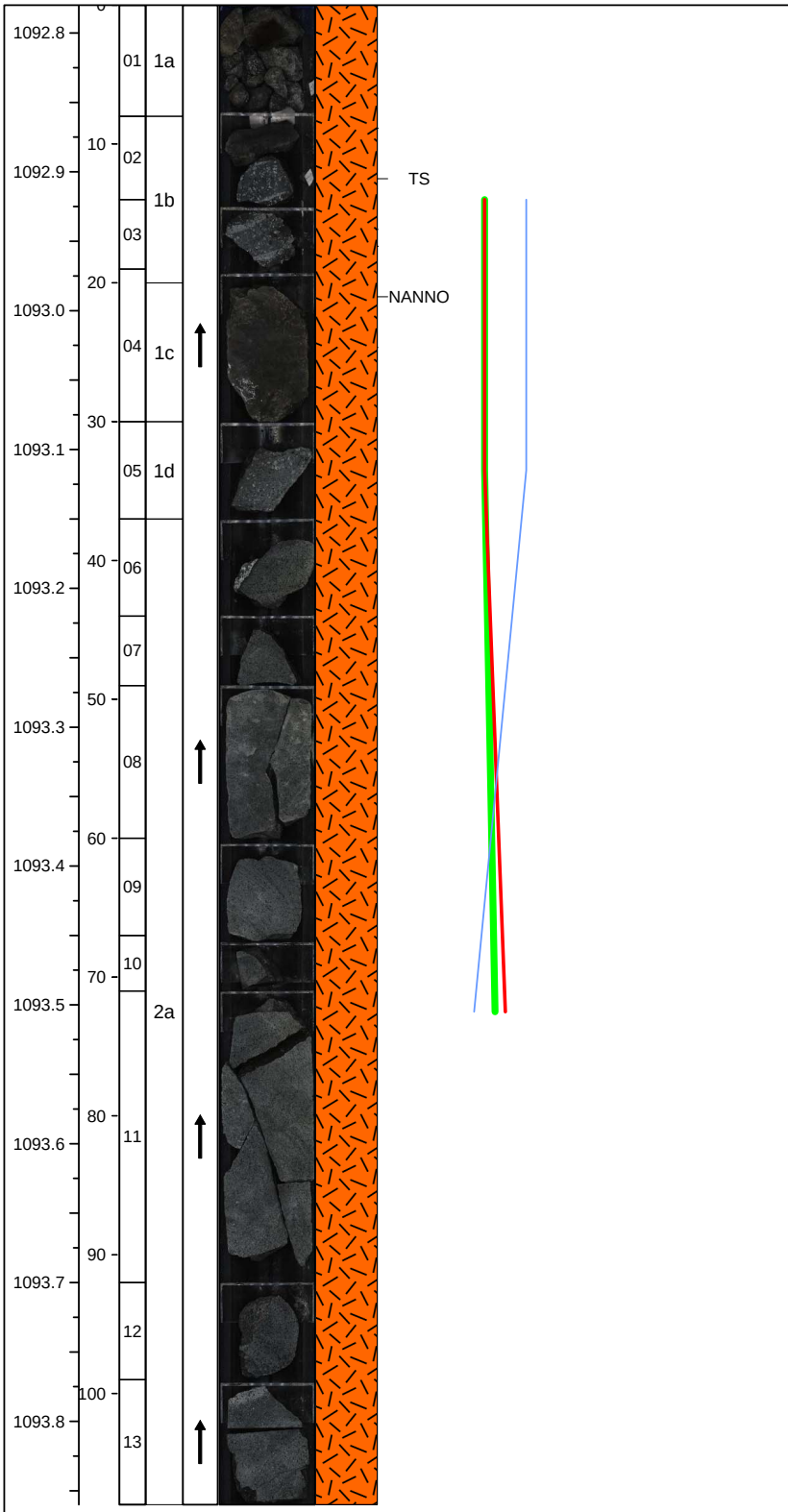


Hole 355-U1457C Core 96R, Interval 1090.1-1093.86 m (CSF-A)

CLAYSTONE, SILTY CLAYSTONE, BASALT. Core is dominated by greenish black and dark brown mostly massive volcaniclastic CLAYSTONE. Heavy drilled related fracturing makes sediment structures hard to observe. Locally light colored layers define bedding and are volcaniclastic SILTY CLAYSTONE. Small (<3 mm) light colored layers and blebs indicate zones of carbonate cementation. Sediment lie directly over massive BASALT at the base of Section 2.



Hole 355-U1457C-96R Section 3, Top of Section: 1092.78 m (CSF-A)



355-U1457C-96R-3A, 0–10 cm
SUBUNIT: 1a
REPRESENTATIVE PIECE: 1
LITHOLOGY: aphyric basalt
VOLCANIC DESCRIPTION: massive lava flow
TEXTURE: aphyric
COLOR: brown grayish black on fresher portions
PHENOCRYSTS: none
GROUNDMASS: holohyaline
VESICLES: nonvesicular
UPPER CONTACT: not recovered
LOWER CONTACT: not recovered
ALTERATION: no visible alteration
VEINS: none
COMMENT: fall in

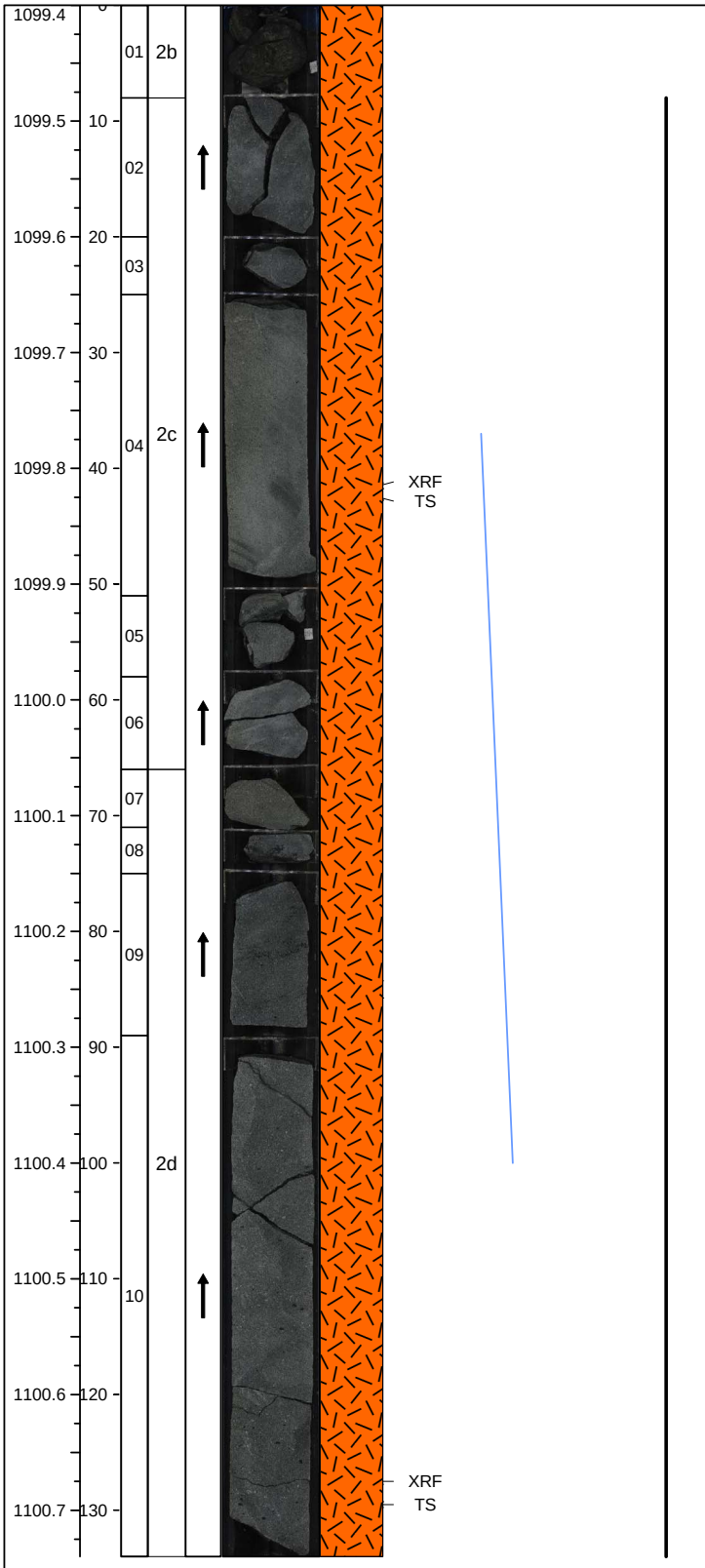
355-U1457C-96R-3A, 10–19 cm
SUBUNIT: 1b
REPRESENTATIVE PIECE: 3
LITHOLOGY: olivine-plagioclase phyric basalt
VOLCANIC DESCRIPTION: massive lava flow
TEXTURE: moderately phyric
COLOR: grayish black on fresher portions
PHENOCRYSTS: plagioclase 6%, clinopyroxene 2%
GROUNDMASS: aphanitic
VESICLES: nonvesicular
UPPER CONTACT: not recovered
LOWER CONTACT: not recovered
ALTERATION: no visible alteration
VEINS: none
COMMENT: fall in?

355-U1457C-96R-3A, 19–30 cm
SUBUNIT: 1c
REPRESENTATIVE PIECE: 4
LITHOLOGY: aphyric basalt
VOLCANIC DESCRIPTION: massive lava flow
TEXTURE: aphyric
COLOR: grayish black on fresher portions
PHENOCRYSTS: none
GROUNDMASS: holohyaline
VESICLES: nonvesicular
UPPER CONTACT: not recovered
LOWER CONTACT: not recovered
ALTERATION: no visible alteration
VEINS: none

355-U1457C-96R-3A, 30–37 cm
SUBUNIT: 1d
REPRESENTATIVE PIECE: 5
LITHOLOGY: clinopyroxene-plagioclase phyric basalt
VOLCANIC DESCRIPTION: massive lava flow
TEXTURE: moderately phyric
COLOR: grayish black on fresher portions
PHENOCRYSTS: clinopyroxene 4%, plagioclase 6%
GROUNDMASS: aphanitic
VESICLES: nonvesicular
UPPER CONTACT: not recovered
LOWER CONTACT: not recovered
ALTERATION: no visible alteration
VEINS: none

355-U1457C-96R-3A, 37–108 cm
SUBUNIT: 2a
REPRESENTATIVE PIECE: 9
LITHOLOGY: plagioclase-clinopyroxene phyric basalt
VOLCANIC DESCRIPTION: massive lava flow
TEXTURE: moderately phyric
COLOR: grayish black on fresher portions
PHENOCRYSTS: clinopyroxene 5%, plagioclase 1%
GROUNDMASS: aphanitic
VESICLES: nonvesicular
UPPER CONTACT: chilled margin with very sparse vesicles
LOWER CONTACT: not recovered
ALTERATION: no visible alteration
VEINS: none

Hole 355-U1457C-97R Section 1, Top of Section: 1099.4 m (CSF-A)

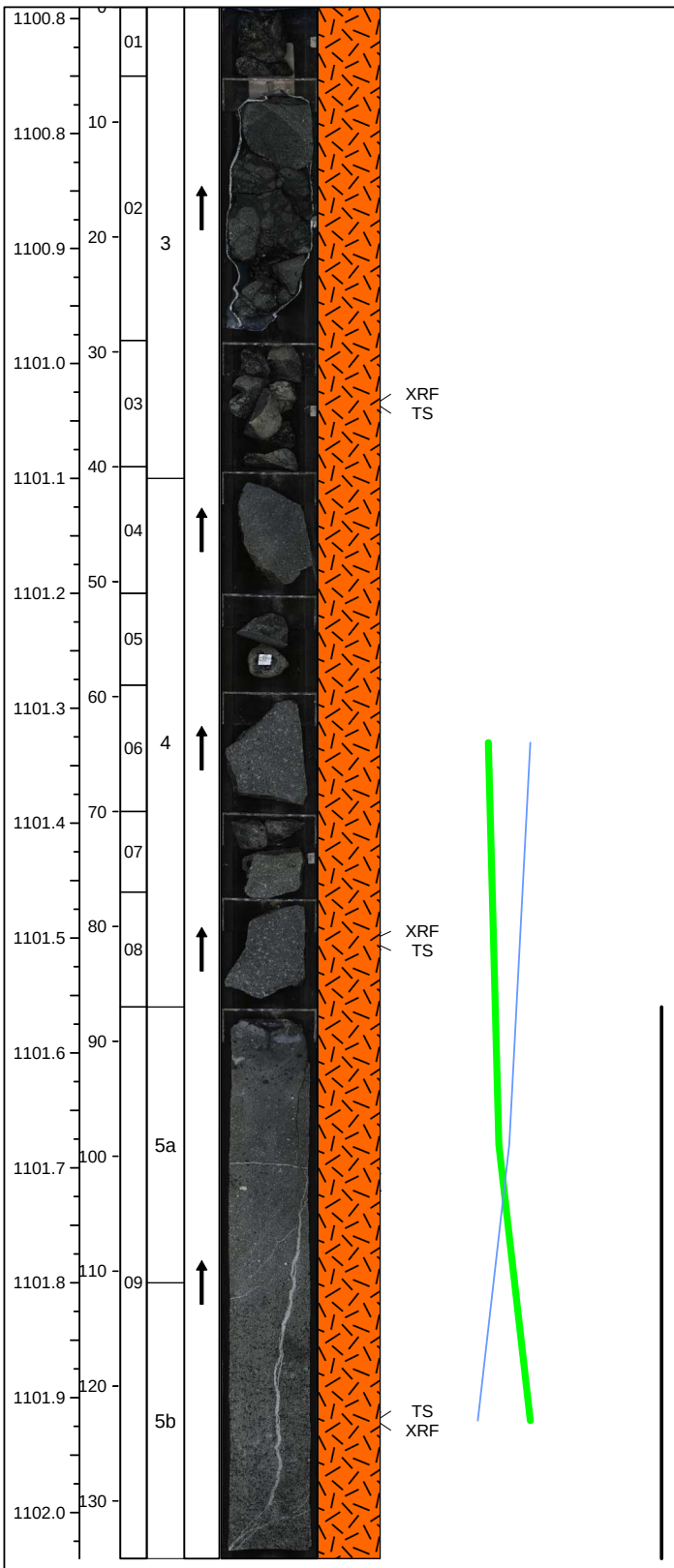


355-U1457C-97R-1A, 0–8 cm
SUBUNIT: 2b
REPRESENTATIVE PIECE: 1
LITHOLOGY: aphyric basalt
VOLCANIC DESCRIPTION: massive lava flow
TEXTURE: aphyric
COLOR: grayish black on fresher portions
PHENOCRYSTS: none
GROUNDMASS: holohyaline
VESICLES: nonvesicular
UPPER CONTACT: not recovered
LOWER CONTACT: not recovered
ALTERATION: no visible alteration
VEINS: none
COMMENT: fall in

355-U1457C-97R-1A, 8–66 cm
SUBUNIT: 2c
REPRESENTATIVE PIECE: 4
LITHOLOGY: plagioclase phyric basalt
VOLCANIC DESCRIPTION: massive lava flow
TEXTURE: sparsely phyric
COLOR: grayish on fresher portions
PHENOCRYSTS: plagioclase 1%
GROUNDMASS: aphanitic
VESICLES: nonvesicular
UPPER CONTACT: not recovered
LOWER CONTACT: not recovered
ALTERATION: slight
VEINS: none

355-U1457C-97R-1A, 66–134 cm
SUBUNIT: 2d
REPRESENTATIVE PIECE: 10b
LITHOLOGY: clinopyroxene-plagioclase phyric basalt
VOLCANIC DESCRIPTION: massive lava flow
TEXTURE: moderately phyric
COLOR: grayish on fresher portions
PHENOCRYSTS: clinopyroxene 3%, plagioclase 4%
GROUNDMASS: aphanitic
VESICLES: nonvesicular
UPPER CONTACT: not recovered
LOWER CONTACT: not recovered
ALTERATION: slight
VEINS: none

Hole 355-U1457C-97R Section 2, Top of Section: 1100.74 m (CSF-A)



355-U1457C-97R-2A, 0–41 cm
UNIT: 3
REPRESENTATIVE PIECE: 2
LITHOLOGY: aphyric basalt
VOLCANIC DESCRIPTION: massive lava flow
TEXTURE: aphyric
COLOR: grayish black on fresher portions
PHENOCRYSTS: none
GROUNDMASS: holohyaline
VESICLES: nonvesicular
UPPER CONTACT: not recovered
LOWER CONTACT: not recovered
ALTERATION: no visible alteration
VEINS: none

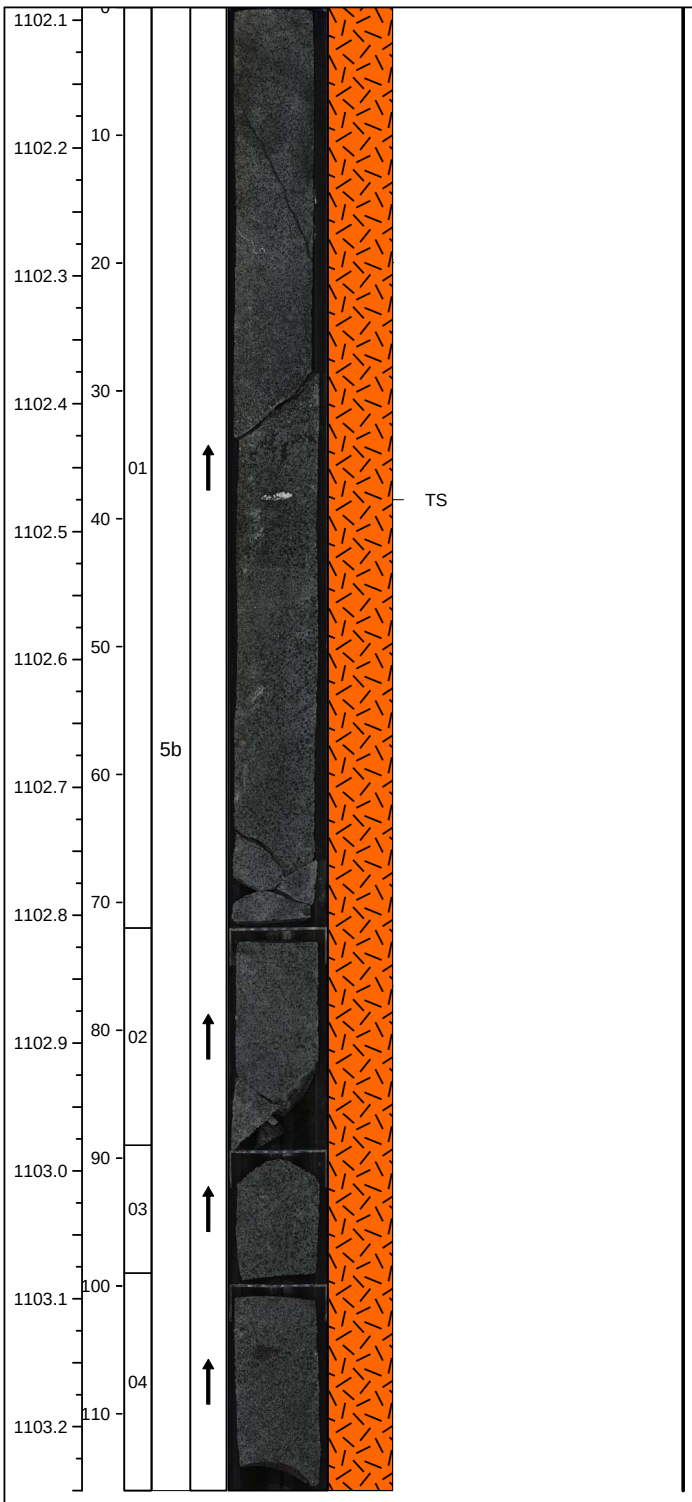
355-U1457C-97R-2A, 41–87 cm
UNIT: 4
REPRESENTATIVE PIECE: 6
LITHOLOGY: clinopyroxene-plagioclase phyric basalt
VOLCANIC DESCRIPTION: massive lava flow
TEXTURE: moderately phyric
COLOR: grayish black on fresher portions
PHENOCRYSTS: clinopyroxene 4%, plagioclase 6%
GROUNDMASS: aphanitic
VESICLES: nonvesicular
UPPER CONTACT: not recovered
LOWER CONTACT: not recovered
ALTERATION: no visible alteration
VEINS: none

355-U1457C-97R-2A, 87–111 cm
SUBUNIT: 5a
REPRESENTATIVE PIECE: 9a
LITHOLOGY: clinopyroxene-plagioclase phyric basalt
VOLCANIC DESCRIPTION: massive lava flow
TEXTURE: moderately phyric
COLOR: grayish on fresher portions
PHENOCRYSTS: clinopyroxene 3%, plagioclase 4%
GROUNDMASS: aphanitic
VESICLES: nonvesicular
UPPER CONTACT: chilled, glassy margin
LOWER CONTACT: not recovered
ALTERATION: slight
VEINS: white vein of ~1 mm width

355-U1457C-97R-2A, 111–135 cm
SUBUNIT: 5b
REPRESENTATIVE PIECE: 9a
LITHOLOGY: olivine-plagioclase phyric basalt
VOLCANIC DESCRIPTION: massive lava flow
TEXTURE: highly phyric
COLOR: grayish black on fresher portions
PHENOCRYSTS: olivine 1%, clinopyroxene 10%, plagioclase 3%
GROUNDMASS: aphanitic
VESICLES: nonvesicular
UPPER CONTACT: not recovered
LOWER CONTACT: not recovered
ALTERATION: slight
VEINS: white veins of ~3 mm width

Continued in Sections 97R-3A and 94R-4A

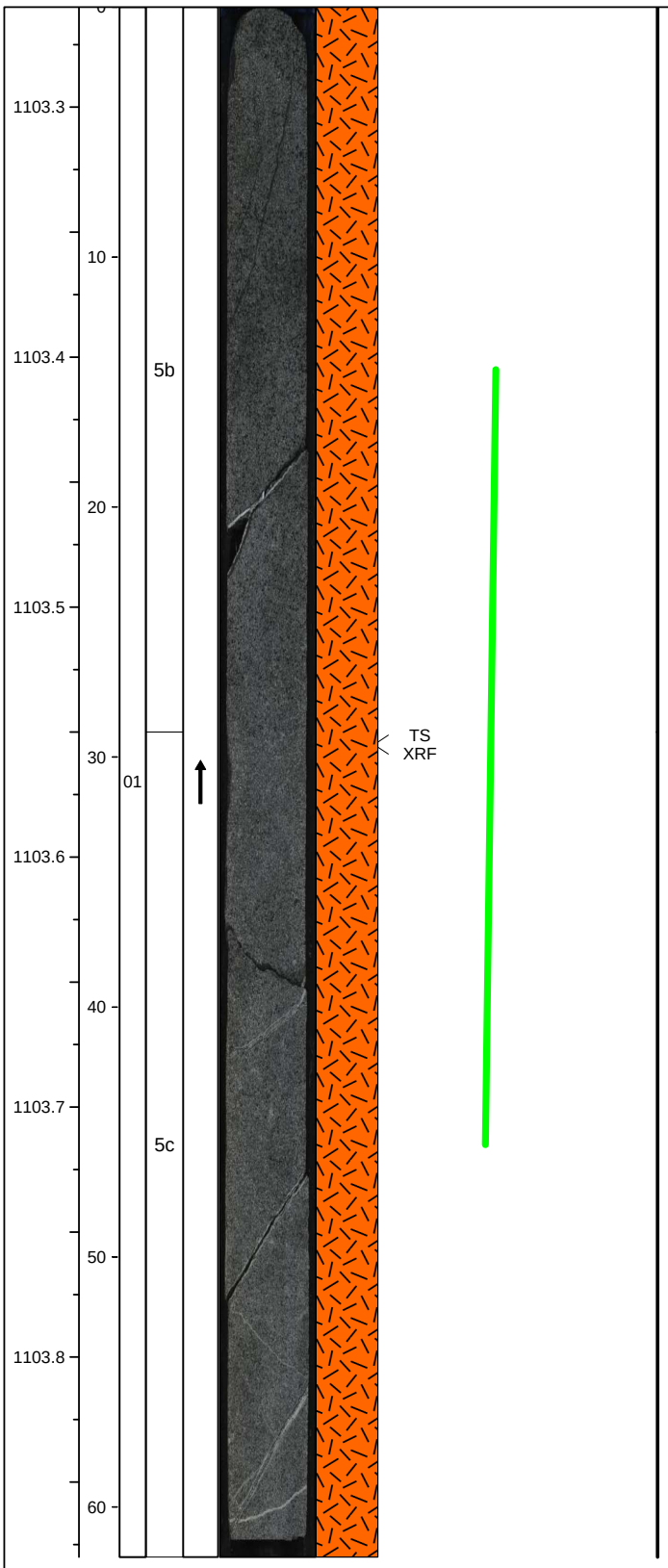
Hole 355-U1457C-97R Section 3, Top of Section: 1102.09 m (CSF-A)



Description

355-U1457C-97R-3A, 0–116 cm
SUBUNIT: 5b
REPRESENTATIVE PIECE: 1b
LITHOLOGY: plagioclase-clinopyroxene phyric basalt
VOLCANIC DESCRIPTION: massive lava flow
TEXTURE: highly phyric
COLOR: grayish on fresher portions
PHENOCRYSTS: olivine 1%, clinopyroxene 10%, plagioclase 3%
GROUNDMASS: aphanitic
VESICLES: nonvesicular
UPPER CONTACT: not recovered
LOWER CONTACT: not recovered
ALTERATION: slight
VEINS: white microveins

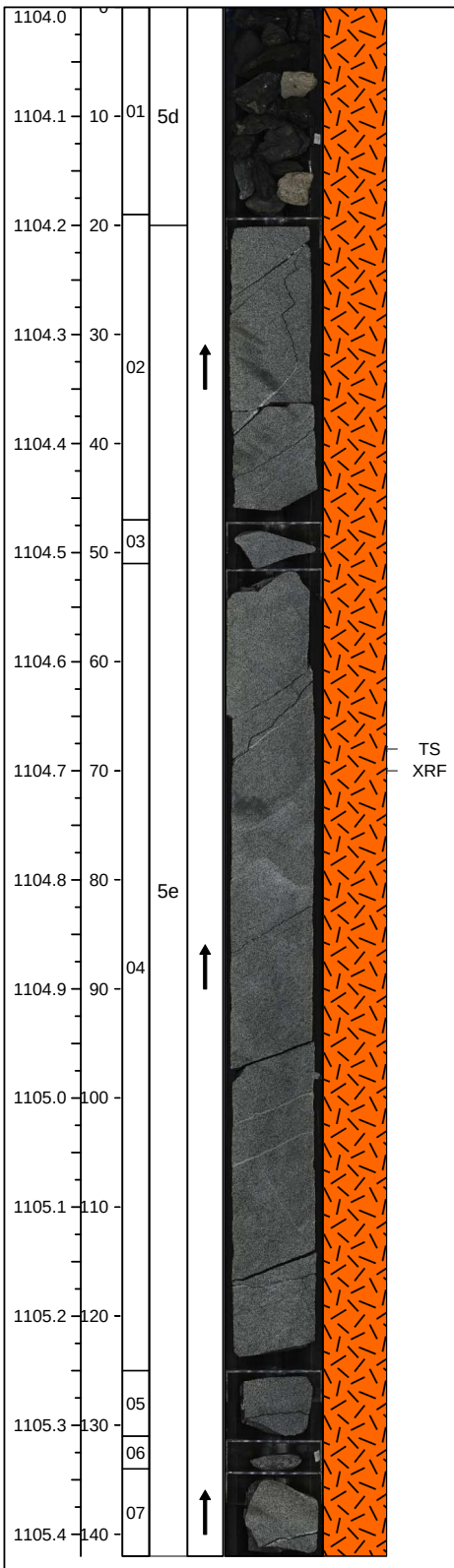
Hole 355-U1457C-97R Section 4, Top of Section: 1103.25 m (CSF-A)



355-U1457C-97R-4A, 0–29 cm
SUBUNIT: 5b
REPRESENTATIVE PIECE: 1a
LITHOLOGY: clinopyroxene-plagioclase phyric basalt
VOLCANIC DESCRIPTION: massive lava flow
TEXTURE: highly phyric
COLOR: grayish on fresher portions
PHENOCRYSTS: olivine 1%, clinopyroxene 10%, plagioclase 3%
GROUNDMASS: aphanitic
VESICLES: nonvesicular
UPPER CONTACT: not recovered
LOWER CONTACT: not recovered
ALTERATION: slight
VEINS: white veins of ~3 mm width

355-U1457C-97R-4A, 29–62 cm
SUBUNIT: 5c
REPRESENTATIVE PIECE: 1c
LITHOLOGY: clinopyroxene phyric basalt
VOLCANIC DESCRIPTION: massive lava flow
TEXTURE: sparsely phyric
COLOR: grayish on fresher portions
PHENOCRYSTS: clinopyroxene 2%
GROUNDMASS: aphanitic
VESICLES: nonvesicular
UPPER CONTACT: not recovered
LOWER CONTACT: not recovered
ALTERATION: slight
VEINS: white veins of ~3 mm width

Hole 355-U1457C-98R Section 1, Top of Section: 1104.0 m (CSF-A)

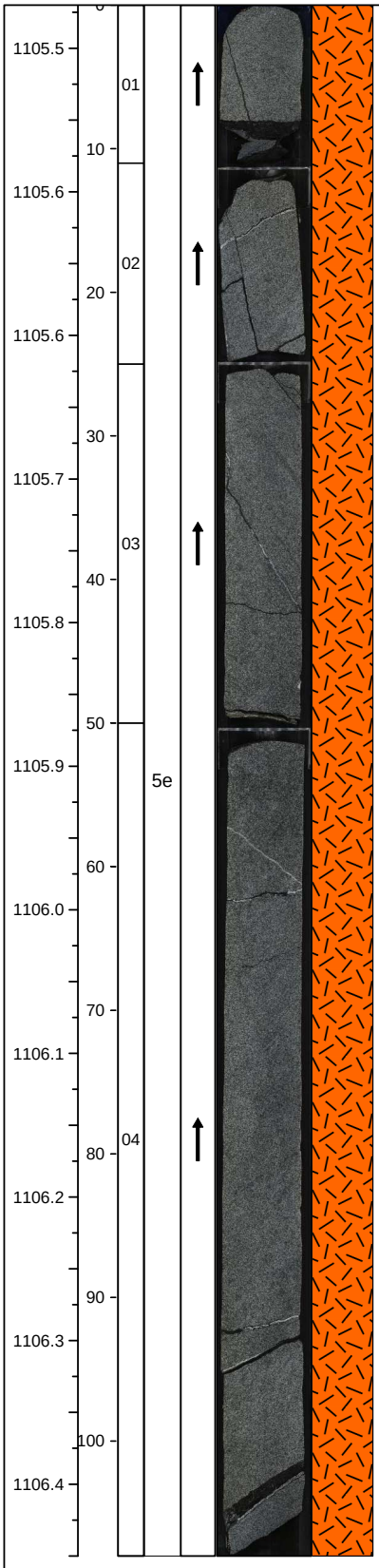


355-U1457C-98R-1A, 0–20 cm
SUBUNIT: 5d
REPRESENTATIVE PIECE: 1
LITHOLOGY: aphyric basalt
VOLCANIC DESCRIPTION: massive lava flow
TEXTURE: aphyric
COLOR: grayish black on fresher portions
PHENOCRYSTS: none
GROUNDMASS: holohyaline
VESICLES: nonvesicular
UPPER CONTACT: not recovered
LOWER CONTACT: not recovered
ALTERATION: no visible alteration
VEINS: none
COMMENT: fall in

355-U1457C-98R-1A, 20–142 cm
SUBUNIT: 5e
REPRESENTATIVE PIECE: 4a
LITHOLOGY: clinopyroxene-plagioclase phyric basalt
VOLCANIC DESCRIPTION: massive lava flow
TEXTURE: sparsely phyric
COLOR: grayish on fresher portions
PHENOCRYSTS: clinopyroxene 1%, plagioclase 3%
GROUNDMASS: aphanitic
VESICLES: nonvesicular
UPPER CONTACT: not recovered
LOWER CONTACT: not recovered
ALTERATION: slight
VEINS: white veins up to ~3 mm width

Continued in Sections 98R-2, 98R-3, and 98R-4

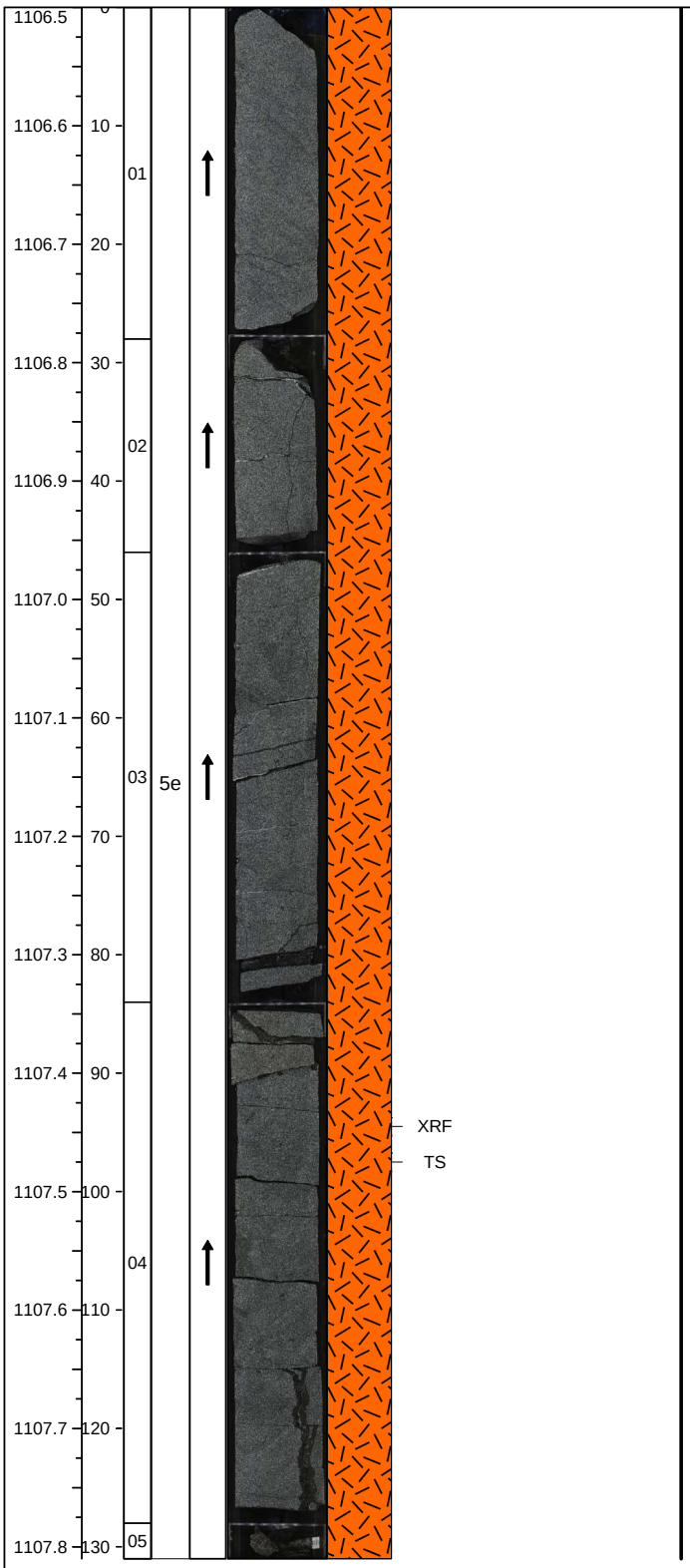
Hole 355-U1457C-98R Section 2, Top of Section: 1105.42 m (CSF-A)



355-U1457C-98R-2A, 0–108 cm
SUBUNIT: 5e
REPRESENTATIVE PIECE: 3
LITHOLOGY: clinopyroxene-plagioclase phyric basalt
VOLCANIC DESCRIPTION: massive lava flow
TEXTURE: sparsely phyric
COLOR: grayish on fresher portions
PHENOCRYSTS: clinopyroxene 1%, plagioclase 3%
GROUNDMASS: aphanitic
VESICLES: nonvesicular
UPPER CONTACT: not recovered
LOWER CONTACT: not recovered
ALTERATION: slight
VEINS: white veins up to ~3 mm width

Continued in Sections 98R-3 and 98R-4

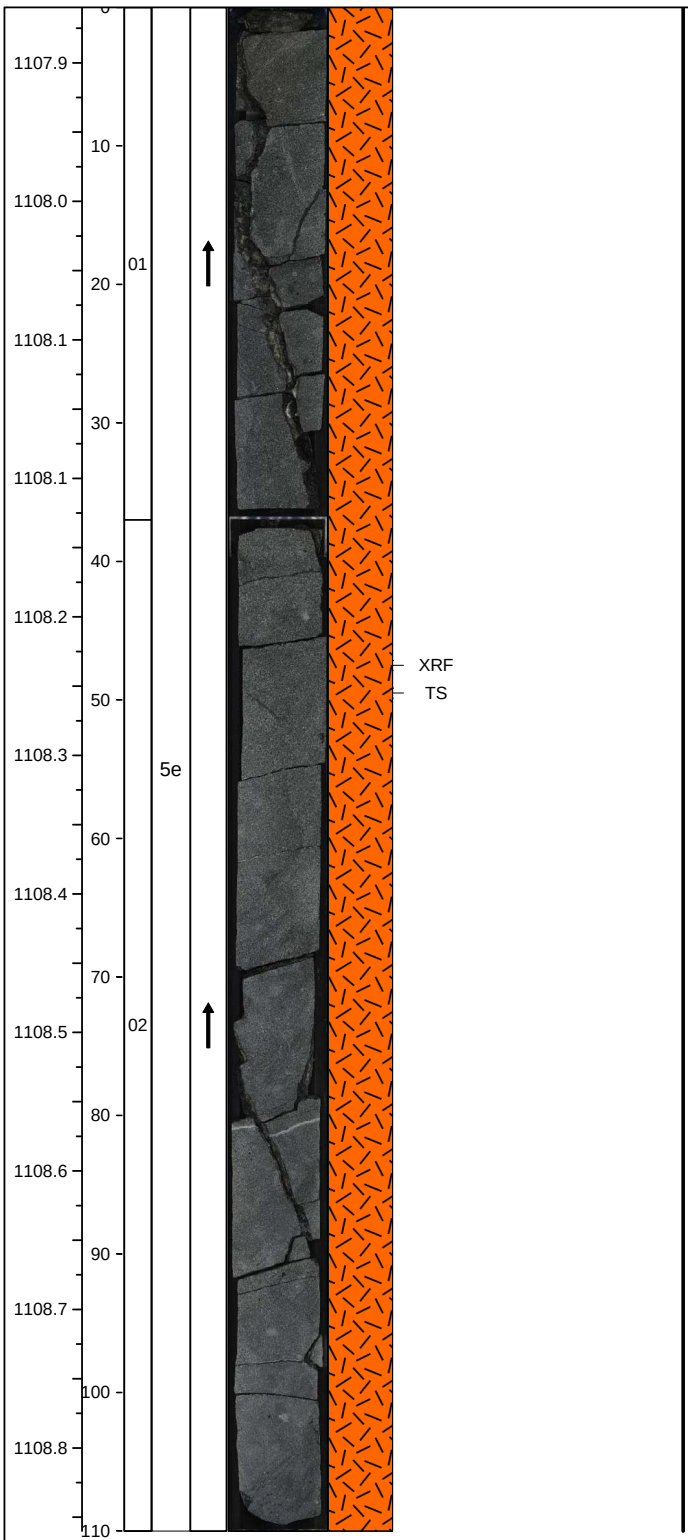
Hole 355-U1457C-98R Section 3, Top of Section: 1106.5 m (CSF-A)



355-U1457C-98R-3A, 0–131 cm
SUBUNIT: 5e
REPRESENTATIVE PIECE: 2
LITHOLOGY: clinopyroxene-plagioclase phyric basalt
VOLCANIC DESCRIPTION: massive lava flow
TEXTURE: sparsely phyric
COLOR: grayish on fresher portions
PHENOCRYSTS: clinopyroxene 1%, plagioclase 3%
GROUNDMASS: aphanitic
VESICLES: nonvesicular
UPPER CONTACT: not recovered
LOWER CONTACT: not recovered
ALTERATION: slight
VEINS: white veins up to ~3 mm width

Continued in Section 98R-4

Hole 355-U1457C-98R Section 4, Top of Section: 1107.81 m (CSF-A)



Description

355-U1457C-98R-4A, 0–110 cm
SUBUNIT: 5e
REPRESENTATIVE PIECE: 2b
LITHOLOGY: clinopyroxene-plagioclase phyric basalt
VOLCANIC DESCRIPTION: massive lava flow
TEXTURE: sparsely phyric
COLOR: grayish on fresher portions
PHENOCRYSTS: clinopyroxene 1%, plagioclase 3%
GROUNDMASS: aphanitic
VESICLES: nonvesicular
UPPER CONTACT: not recovered
LOWER CONTACT: not recovered
ALTERATION: slight
VEINS: white veins up to ~3 mm width
COMMENT: Below 95 cm, phenocryst abundance gradually decreases

Sample	Top Depth [m]	Bottom Depth [m]	Sand texture [%]	Silt texture [%]	Clay texture [%]	Quartz abundance	Feldspar abundance	Mica abundance	Clay minerals abundance	Lithic grains abundance	Glauconite abundance	Vitric grains abundance	Heavy minerals abundance	Zircon relative abundance	Zircon relative abundance rank	Tourmaline relative abundance	Tourmaline relative abundance rank	Rutile relative abundance	Rutile relative abundance rank	Apatite relative abundance	Apatite relative abundance rank	Titanite relative abundance	Titanite relative abundance rank	Spinel relative abundance	Spinel relative abundance rank	Hornblende relative abundance	Hornblende relative abundance rank
355-U1457A-1H-1-A 10/10-SED	0.1	0.1	0	25	80	C	R	R	Tr				R													C	2
355-U1457A-1H-1-A 87/87-SED	0.87	0.87	5	10	85	Tr		R	Tr				Tr					Tr	1							C	2
355-U1457A-1H-2-A 116/116-SED	2.1	2.1	0	20	80			C					R					Tr	1			Tr	1	Tr	1	C	2
355-U1457A-1H-2-A 30/30-SED	1.24	1.24	0	35	65	R	Tr	Tr			Tr		Tr	Tr	1											C	2
355-U1457A-1H-3-A 102/102-SED	3.24	3.24	0	30	70	C	Tr	R	Tr				R			C	2	Tr	1			C	2			Tr	1
355-U1457A-1H-3-A 140/140-SED	3.62	3.62	30	60	10	C	C	C	Tr		Tr		C			Tr	1					Tr	1			A	3
355-U1457A-1H-3-A 27/27-SED	2.49	2.49	0	20	80	R	Tr	R	Tr				R	Tr	1							Tr	1			C	2
355-U1457A-1H-4-A 146/146-SED	5.18	5.18	40	55	5	C	C	C	Tr	R			C			Tr	1	Tr	1	Tr	1	Tr	1			A	3
355-U1457A-2H-1-A 71/71-SED	9.41	9.41	0	25	75	R	R																				
355-U1457A-2H-2-A 140/140-SED	11.6	11.6	30	60	10	C	C	R			C		C			Tr	1					Tr	1			C	2
355-U1457A-2H-3-A 3/3-SED	11.73	11.73	15	80	5	C	C	C			C		C	Tr	1	Tr	1									C	2
355-U1457A-2H-CC-A 6/6-SED	13.96	13.96	5	15	80																						
355-U1457A-3H-1-A 103/103-SED	19.23	19.23	50	40	10	C	C	C			R		C	Tr	1					Tr	1					A	3
355-U1457A-3H-1-A 40/40-SED	18.6	18.6	0	10	90	Tr	Tr						Tr														
355-U1457A-3H-3-A 140/140-SED	22.6	22.6	0	20	80	R	R	R					R			Tr	1									Tr	1
355-U1457A-3H-6-A 105/105-SED	26.75	26.75	0	10	90	Tr	Tr						Tr	Tr	1											Tr	1
355-U1457A-4H-1-A 80/80-SED	28.5	28.5	5	15	80	Tr	Tr	Tr					Tr													A	3
355-U1457A-4H-3-A 39/39-SED	31.09	31.09	15	75	10	C	C	R			C		C	Tr	1	C	2									A	3
355-U1457A-4H-4-A 93/93-SED	33.13	33.13	0	20	80	Tr	Tr	Tr					Tr													A	3
355-U1457A-4H-6-A 13/13-SED	35.33	35.33	10	70	20	C	C	R			C		C	Tr	1					Tr	1					C	2
355-U1457A-5H-2-A 90/90-SED	39.6	39.6	65	30	5	C	C	C			C		C													C	2
355-U1457A-5H-3-A 3/3-SED	40.23	40.23	5	35	60	C	C	R	C		R		Tr													A	3
355-U1457A-5H-4-A 10/10-SED	41.8	41.8	5	35	60	C	C	C					R									C	2			C	2
355-U1457A-5H-5-A 138/138-SED	44.58	44.58	0	30	70	R	R	R			R		R			Tr	1			Tr	1					Tr	1
355-U1457A-5H-5-A 14/14-SED	43.34	43.34	20	70	10	C	C	C			C		A	Tr	1	Tr	1			Tr	1	Tr	1			C	2
355-U1457A-6H-3-A 60/60-SED	50.3	50.3	30	50	20	C	C	C			R		Tr											Tr	1		
355-U1457A-6H-4-A 127/127-SED	52.47	52.47	20	35	45	Tr		R	Tr		Tr		Tr											Tr	1	Tr	1
355-U1457A-6H-5-A 124/124-SED	53.94	53.94	0	5	95			Tr					Tr					Tr	1							Tr	1
355-U1457A-6H-5-A 15/15-SED	52.85	52.85	0	20	80			Tr					Tr			Tr	1									Tr	1
355-U1457A-6H-5-A 58/58-SED	53.28	53.28	30	45	25	C	C	C			R		R									Tr	1			C	2
355-U1457A-7H-2-A 19/19-SED	57.89	57.89	10	30	60	C	C	C	Tr				Tr			Tr	1									C	2
355-U1457A-7H-4-A 140/140-SED	62.1	62.1	0	35	65	R	R	C	Tr				Tr									Tr	1			C	2
355-U1457A-7H-5-A 58/58-SED	62.73	62.73	50	35	15	A	C	C			R		R	Tr	1											C	2
355-U1457A-7H-6-A 100/100-SED	64.65	64.65	20	30	50	Tr		R	Tr				Tr													C	2
355-U1457A-8H-2-A 140/140-SED	68.6	68.6	0	10	90	R		R	R				Tr			Tr	1										
355-U1457A-8H-5-A 10/10-SED	71.8	71.8	0	25	75	C	C	R	R																		
355-U1457A-8H-5-A 136/136-SED	73.06	73.06	15	40	45			Tr					Tr									Tr	1				
355-U1457A-8H-6-A 14/14-SED	73.34	73.34	5	20	75		Tr						Tr													Tr	1
355-U1457A-8H-6-A 20/20-SED	73.4	73.4	0	20	80			Tr					Tr					Tr	1								
355-U1457A-8H-7-A 57/57-SED	74.78	74.78	0	25	75	C	R	Tr					Tr					Tr	1								
355-U1457A-9H-4-A 27/27-SED	78.58	78.58	0	40	60	A	C	C	R				R			Tr	1	Tr	1							C	2
355-U1457A-9H-4-A 57/57-SED	78.88	78.88	30	60	10	A	C	C	Tr	R			C	Tr	1	Tr	1	Tr	1	Tr	1			Tr	1	A	3
355-U1457A-9H-5-A 72/72-SED	80.33	80.33	60	35	5	A	C	C	Tr	R			C	Tr	1	Tr	1					Tr	1	Tr	1	A	3
355-U1457A-10H-2-A 91/91-SED	87.11	87.11	0	35	65	C	R	Tr	R				Tr			Tr	1	Tr	1	Tr	1					C	2
355-U1457A-10H-4-A 63/63-SED	89.83	89.83	30	65	5	A	C	C	R	R			R	Tr	1	Tr	1	Tr	1							C	2
355-U1457A-10H-6-A 64/64-SED	92.84	92.84	75	25	0	A	C	R		R			R			Tr	1					Tr	1			C	2
355-U1457A-10H-6-A 96/96-SED	93.16	93.16	10	85	5	A	C	R					R			Tr	1									C	2
355-U1457A-11H-3-A 96/96-SED	98.16	98.16	15	75	10	A	C	R		R			C	Tr	1	Tr	1	Tr	1							A	3
355-U1457A-11H-5-A 33/33-SED	100.3	100.3	0	25	75	R	R	R					Tr					Tr	1							C	2
355-U1457A-11H-6-A 94/94-SED	102.41	102.41	60	30	10	C	C	R	C	R			R			Tr	1					Tr	1			C	2
355-U1457A-13F-1-A 36/36-SED	111.56	111.56	0	20	80	R	R	R					R													A	3
355-U1457A-13F-3-A 47/47-SED	114.67	114.67	25	70	5	C	C	C					C	Tr	1	Tr	1			Tr	1					A	3
355-U1457A-15F-1-A 48/48-SED	121.28	121.28	0	10	90	R	R		C				Tr													A	3
355-U1457A-15F-3-A 55/55-SED	124.38	124.38	10	80	10	C	C	C			R		C	Tr	1	C	2					C	2			A	3
355-U1457A-17F-2-A 37/37-SED	132.3	132.3	20	70	10	C	C	C					C			C	2			Tr	1	Tr	1			A	3
355-U1457A-17F-2-A 72/72-SED	132.65	132.65	0	25	75	R	R	R					R			Tr	1	Tr	1			Tr	1			A	3
355-U1457A-19F-1-A 33/33-SED	140.33	140.33	10	80	10	C	C	C					C			Tr	1			C	2	Tr	1			A	3
355-U1457A-19F-1-A 76/76-SED	140.76	140.76	5	30	65	C	C	R					R													A	3

Sample	Actinolite relative abundance	Actinolite relative abundance rank	Glaucophane relative abundance	Glaucophane relative abundance rank	Augite relative abundance	Augite relative abundance rank	Other clinopyroxenes relative abundance	Other CPX relative abundance rank	Enstatite relative abundance	Enstatite relative abundance rank	Hypersthene relative abundance	Hypersthene relative abundance rank	Epidote relative abundance	Epidote relative abundance rank	Zoisite relative abundance	Zoisite relative abundance rank	Allanite relative abundance	Allanite relative abundance rank	Garnet relative abundance	Garnet relative abundance rank	Staurolite relative abundance	Staurolite relative abundance rank	Chloritoid relative abundance	Chloritoid relative abundance rank	Kyanite relative abundance	Kyanite relative abundance rank	Sillimanite relative abundance	Sillimanite relative abundance rank	Opaques relative abundance	Opaques relative abundance rank
355-U1457A-1H-1-A 10/10-SED	Tr	1											Tr	1																
355-U1457A-1H-1-A 87/87-SED																													Tr	1
355-U1457A-1H-2-A 116/116-SED					C	2	C	2					C	2					Tr	1									Tr	1
355-U1457A-1H-2-A 30/30-SED							Tr	1																						
355-U1457A-1H-3-A 102/102-SED													C	2															Tr	1
355-U1457A-1H-3-A 140/140-SED							C	2					C	2			Tr	1	Tr	1					Tr	1			Tr	1
355-U1457A-1H-3-A 27/27-SED	C	2					Tr	1					C	2			Tr	1	Tr	1										
355-U1457A-1H-4-A 146/146-SED	C	2			C	2	C	2					C	2					Tr	1									Tr	1
355-U1457A-2H-1-A 71/71-SED																														
355-U1457A-2H-2-A 140/140-SED					Tr	1	C	2											C	2										
355-U1457A-2H-3-A 3/3-SED							A	3					C	2					Tr	1										
355-U1457A-2H-CC-A 6/6-SED																														
355-U1457A-3H-1-A 103/103-SED							C	2					C	2																
355-U1457A-3H-1-A 40/40-SED													A	3																
355-U1457A-3H-3-A 140/140-SED													C	2																
355-U1457A-3H-6-A 105/105-SED													Tr	1																
355-U1457A-4H-1-A 80/80-SED																														
355-U1457A-4H-3-A 39/39-SED							A	3					C	2					C	2										
355-U1457A-4H-4-A 93/93-SED																														
355-U1457A-4H-6-A 13/13-SED							A	3											Tr	1										
355-U1457A-5H-2-A 90/90-SED							C	2																						
355-U1457A-5H-3-A 3/3-SED																														
355-U1457A-5H-4-A 10/10-SED																														
355-U1457A-5H-5-A 138/138-SED							C	2																						
355-U1457A-5H-5-A 14/14-SED			Tr	1			A	3											Tr	1										
355-U1457A-6H-3-A 60/60-SED							C	2																						
355-U1457A-6H-4-A 127/127-SED							C	2																						
355-U1457A-6H-5-A 124/124-SED																													Tr	1
355-U1457A-6H-5-A 15/15-SED													Tr	1					Tr	1										
355-U1457A-6H-5-A 58/58-SED							C	2					A	3															Tr	1
355-U1457A-7H-2-A 19/19-SED							Tr	1					C	2															Tr	1
355-U1457A-7H-4-A 140/140-SED	Tr	1											C	2																
355-U1457A-7H-5-A 58/58-SED							C	2					Tr	1					Tr	1					Tr	1			Tr	1
355-U1457A-7H-6-A 100/100-SED													Tr	1																
355-U1457A-8H-2-A 140/140-SED																			Tr	1										
355-U1457A-8H-5-A 10/10-SED																														
355-U1457A-8H-5-A 136/136-SED							Tr	1																						
355-U1457A-8H-6-A 14/14-SED													Tr	1																
355-U1457A-8H-6-A 20/20-SED																													Tr	1
355-U1457A-8H-7-A 57/57-SED																													Tr	1
355-U1457A-9H-4-A 27/27-SED													C	2																
355-U1457A-9H-4-A 57/57-SED							Tr	1					C	2			Tr	1	Tr	1					Tr	1				
355-U1457A-9H-5-A 72/72-SED	C	2	Tr	1									C	2			Tr	1	Tr	1										
355-U1457A-10H-2-A 91/91-SED													C	2					Tr	1										
355-U1457A-10H-4-A 63/63-SED	Tr	1					Tr	1					Tr	1					Tr	1					Tr	1				
355-U1457A-10H-6-A 64/64-SED	Tr	1											C	2					Tr	1			Tr	1						
355-U1457A-10H-6-A 96/96-SED	Tr	1											C	2			Tr	1	Tr	1							Tr	1		
355-U1457A-11H-3-A 96/96-SED	Tr	1			Tr	1							C	2			Tr	1	Tr	1					Tr	1				
355-U1457A-11H-5-A 33/33-SED													C	2																
355-U1457A-11H-6-A 94/94-SED	Tr	1					Tr	1			Tr	1	C	2					Tr	1										
355-U1457A-13F-1-A 36/36-SED													C	2																
355-U1457A-13F-3-A 47/47-SED							C	2					Tr	1																
355-U1457A-15F-1-A 48/48-SED																														
355-U1457A-15F-3-A 55/55-SED							Tr	1																						
355-U1457A-17F-2-A 37/37-SED																			Tr	1										
355-U1457A-17F-2-A 72/72-SED																														
355-U1457A-19F-1-A 33/33-SED																														
355-U1457A-19F-1-A 76/76-SED																														

Sample	Fe sulfides (opaques) abundance	Fe-oxides abundance	Ti-oxides abundance	Carbonate, detrital abundance	Carbonate, authigenic abundance	Foraminifers abundance	Calcareous nannofossil abundance	Pteropod fragments abundance	Other calcareous bioclasts abundance	Radiolarians abundance	Diatoms abundance	Sponge spicule fragments abundance	Other biosiliceous fossil fragments abundance	Fish debris abundance	Plant debris abundance	Organic matter abundance	Total of group estimates [%]	Lithology prefix	Principal lithology	Lithology suffix	Lithology major or minor	Lithology comment	Smear slide comment
355-U1457A-1H-1-A 10/10-SED		Tr	Tr	Tr	Tr	Tr	A		R									silty	clay	with nannofossils	major lithology		
355-U1457A-1H-1-A 87/87-SED		R	Tr			Tr	D		C						Tr			nannofossil rich	clay	with silt	major lithology		
355-U1457A-1H-2-A 116/116-SED	Tr	Tr				Tr	D		C						Tr			nannofossil rich	clay	with silt	major lithology		Etched augite
355-U1457A-1H-2-A 30/30-SED	Tr			A		Tr	Tr		R									calcareous rich	clay	with silt	minor lithology		Etched cpx; yellow brownish and rounded carbonatic grains
355-U1457A-1H-3-A 102/102-SED	Tr		R				C		C						Tr			silty	clay		major lithology		
355-U1457A-1H-3-A 140/140-SED	Tr			R		Tr	Tr		Tr									sandy	silt		minor lithology		Etched cpx
355-U1457A-1H-3-A 27/27-SED	Tr	Tr	Tr	Tr	Tr		D		R						Tr			nannofossil rich	clay	with silt	major lithology		
355-U1457A-1H-4-A 146/146-SED	Tr	Tr	Tr	C		R	Tr		C									sandy	silt		minor lithology		Skeletal cpx; hematite
355-U1457A-2H-1-A 71/71-SED	Tr	R			R	Tr	A		R			R						nannofossil rich	clay		minor lithology		
355-U1457A-2H-2-A 140/140-SED	C	R		R		C	Tr		Tr									sandy	silt		minor lithology		
355-U1457A-2H-3-A 3/3-SED	C	R				R	R		R									sandy	silt		minor lithology		
355-U1457A-2H-CC-A 6/6-SED	Tr	R		Tr	Tr	C	D												nannofossil ooze		minor lithology		
355-U1457A-3H-1-A 103/103-SED	C			R	R	C			R									silty	sand		minor lithology		
355-U1457A-3H-1-A 40/40-SED	C	Tr			R	R	D												nannofossil ooze		major lithology		
355-U1457A-3H-3-A 140/140-SED	C	Tr		Tr	R	Tr	D		Tr									nannofossil rich	clay		minor lithology		
355-U1457A-3H-6-A 105/105-SED	C	Tr			C		D		R			Tr						nannofossil rich	clay		minor lithology		
355-U1457A-4H-1-A 80/80-SED	C	C			R	R	D												nannofossil ooze		major lithology		
355-U1457A-4H-3-A 39/39-SED	C			R	Tr	C	R		Tr			R						sandy	silt	with foraminifers	minor lithology		
355-U1457A-4H-4-A 93/93-SED	C				C	Tr	D					Tr			Tr			nannofossil rich	clay		minor lithology		
355-U1457A-4H-6-A 13/13-SED	C			R	R	C	R		R			R			Tr			clayey	silt		minor lithology		
355-U1457A-5H-2-A 90/90-SED	C	C		R		C	R											silty	sand	with foraminifers	minor lithology		
355-U1457A-5H-3-A 3/3-SED	C	R			R	R	D		Tr						Tr			nannofossil rich	clay	with silt	major lithology		
355-U1457A-5H-4-A 10/10-SED	C	R		R	C	Tr	C											silty	clay	with nannofossils	minor lithology		
355-U1457A-5H-5-A 138/138-SED	C			R	C	R	D					Tr						nannofossil rich	clay	with silt	major lithology		
355-U1457A-5H-5-A 14/14-SED	C			R	Tr	C	R					R						sandy	silt		minor lithology		
355-U1457A-6H-3-A 60/60-SED	C	Tr		C		Tr	A		A									sandy	silt	with nannofossils	minor lithology		Skeletal cpx
355-U1457A-6H-4-A 127/127-SED	C	R				R	D		C						Tr			nannofossil rich	clay	with silt	minor lithology		Etched cpx
355-U1457A-6H-5-A 124/124-SED	R	Tr				Tr	D		C										nannofossil ooze		major lithology		
355-U1457A-6H-5-A 15/15-SED	R	Tr					D		C						Tr			nannofossil rich	clay		major lithology		
355-U1457A-6H-5-A 58/58-SED	A	Tr	Tr	C		R	R		C									sandy	silt		minor lithology		Skeletal cpx
355-U1457A-7H-2-A 19/19-SED	C	R	Tr	Tr		R	A		R									nannofossil rich	clay		minor lithology		Etched cpx
355-U1457A-7H-4-A 140/140-SED		Tr	Tr				Tr		C						Tr			silty	clay		minor lithology		
355-U1457A-7H-5-A 58/58-SED	R	R		C		R			Tr									silty	sand		minor lithology		
355-U1457A-7H-6-A 100/100-SED	C					R	R		C						Tr			silty	clay		minor lithology		
355-U1457A-8H-2-A 140/140-SED	C			Tr					C						Tr				clay		minor lithology		
355-U1457A-8H-5-A 10/10-SED		Tr		C		Tr	C		A										clay		minor lithology		Hematite
355-U1457A-8H-5-A 136/136-SED		Tr		A		Tr			D						Tr				calcareous ooze		minor lithology		
355-U1457A-8H-6-A 14/14-SED	D			Tr		Tr			A									silty	clay		minor lithology		
355-U1457A-8H-6-A 20/20-SED	R	Tr		C														calcareous rich	clay		major lithology		
355-U1457A-8H-7-A 57/57-SED	R	R					Tr											silty	clay		major lithology		
355-U1457A-9H-4-A 27/27-SED	R	Tr							R						Tr	Tr		silty	clay		major lithology		
355-U1457A-9H-4-A 57/57-SED	R	R	Tr	C		Tr			C						Tr			sandy	silt		minor lithology		Etched cpx
355-U1457A-9H-5-A 72/72-SED	C	Tr		R														silty	sand		minor lithology		
355-U1457A-10H-2-A 91/91-SED	R	R					R		C						R			silty	clay		major lithology		Hematite
355-U1457A-10H-4-A 63/63-SED	R	R		C					Tr						Tr			sandy	silt		minor lithology		Hematite
355-U1457A-10H-6-A 64/64-SED	R	R		R											Tr			silty	sand		minor lithology		Hematite
355-U1457A-10H-6-A 96/96-SED	R	Tr		R	Tr				Tr						Tr				silt		minor lithology		
355-U1457A-11H-3-A 96/96-SED	Tr	Tr		C															silt		minor lithology		Etched augite
355-U1457A-11H-5-A 33/33-SED		Tr					R		C						Tr			silty	clay		major lithology		
355-U1457A-11H-6-A 94/94-SED	Tr			R			Tr		C									silty	sand		minor lithology		Etched Cpx and Hy
355-U1457A-13F-1-A 36/36-SED	R	Tr		R	R		C								Tr				clay	with nannofossils	major lithology		
355-U1457A-13F-3-A 47/47-SED	C			C	Tr		Tr											sandy	silt		minor lithology		
355-U1457A-15F-1-A 48/48-SED	C	Tr		Tr	C	Tr	D											nannofossil rich	clay		major lithology		
355-U1457A-15F-3-A 55/55-SED	R			C			R												silt		minor lithology		
355-U1457A-17F-2-A 37/37-SED	R	Tr		R	R		Tr												silt	with sand	minor lithology		
355-U1457A-17F-2-A 72/72-SED	R			Tr	R		A											nannofossil rich	clay	with silt	major lithology		
355-U1457A-19F-1-A 33/33-SED	C	Tr		R	R		R												silt		minor lithology		
355-U1457A-19F-1-A 76/76-SED	R	Tr		Tr	R		R												clay	with silt	major lithology		

Sample	Top Depth [m]	Bottom Depth [m]	Sand texture [%]	Silt texture [%]	Clay texture [%]	Quartz abundance	Feldspar abundance	Mica abundance	Clay minerals abundance	Lithic grains abundance	Glauconite abundance	Vitric grains abundance
355-U1457B-1H-1-A 20/20-SED	0.2	0.2	10	15	75	Tr	Tr	R				
355-U1457B-1H-1-A 61/61-SED	0.61	0.61	0	20	80	R	Tr	Tr				
355-U1457B-1H-3-A 21/21-SED	2.74	2.74	5	30	65	R	R	Tr	R			
355-U1457B-2H-1-A 78/78-SED	3.98	3.98	5	40	55	C	C	R	C			
355-U1457B-2H-2-A 129/129-SED	5.96	5.96	15	80	5	C	C	C			C	
355-U1457B-2H-5-A 80/80-SED	9.85	9.85	10	10	80	R	Tr					
355-U1457B-2H-6-A 48/48-SED	11	11	0	15	85	Tr	Tr	Tr				
355-U1457B-3H-1-A 120/120-SED	13.9	13.9	5	10	85			Tr				
355-U1457B-3H-1-A 27/27-SED	12.97	12.97	5	35	60	R	R	R			R	
355-U1457B-3H-5-A 19/19-SED	18.89	18.89	5	15	80	R	R	R				
355-U1457B-3H-6-A 40/40-SED	20.6	20.6	10	15	75	R	Tr	Tr				
355-U1457B-4H-3-A 65/65-SED	25.85	25.85	70	30	0	C	C	R		R	Tr	
355-U1457B-5H-3-A 106/106-SED	35.76	35.76	50	30	20	R	R	C	Tr		Tr	
355-U1457B-5H-5-A 78/78-SED	38.21	38.21	0	40	60			R				
355-U1457B-6H-4-A 87/87-SED	46.57	46.57	20	30	60	Tr	Tr	Tr				
355-U1457B-6H-5-A 88/88-SED	48.08	48.08	0	40	60							
355-U1457B-7H-4-A 82/82-SED	56.02	56.02	0	10	90	Tr		Tr				
355-U1457B-7H-5-A 47/47-SED	57.17	57.17	80	15	5	C	C	R				
355-U1457B-8H-5-A 78/78-SED	66.98	66.98	0	25	75	Tr	Tr	R				
355-U1457B-8H-6-A 39/39-SED	67.99	67.99	0	25	75	Tr	Tr	Tr	Tr			
355-U1457B-9H-2-A 103/103-SED	72.23	72.23	5	15	80	R	R	R				
355-U1457B-9H-2-A 95/95-SED	72.15	72.15	0	15	85	R	R	Tr				
355-U1457B-10H-6-A 63/63-SED	85.1	85.1	0	25	75	R	R	R				
355-U1457B-10H-6-A 70/70-SED	85.17	85.17	35	60	5	C	C	A				
355-U1457B-14F-1-A 60/60-SED	111.3	111.3	5	35	60	R	R	C				
355-U1457B-15F-1-A 49/49-SED	115.89	115.89	0	30	70	R	R	R				
355-U1457B-17F-1-A 44/44-SED	125.24	125.24	5	30	65	C	R	R				
355-U1457B-17F-4-A 38/38-SED	129.01	129.01	55	40	5	A	A	C			R	
355-U1457B-19F-1-A 81/81-SED	135.01	135.01	0	35	65	R	R	C				
355-U1457B-19F-3-A 71/71-SED	137.91	137.91	10	80	10	A	A	C				
355-U1457B-21F-2-A 41/41-SED	144.72	144.72	15	80	5	A	A	C			R	
355-U1457B-21F-3-A 56/56-SED	146.28	146.28	0	35	65	R	R	C				
355-U1457B-23F-1-A 70/70-SED	153.7	153.7	0	35	65	C	C	R	R			
355-U1457B-23F-3-A 50/50-SED	156.41	156.41	20	70	10	A	A	C				
355-U1457B-25F-4-A 24/24-SED	166.48	166.48	0	35	65	C	C	R	Tr			
355-U1457B-27F-3-A 20/20-SED	174.62	174.62	0	40	60	C	Tr	R				
355-U1457B-29F-2-A 35/35-SED	182.99	182.99	0	35	65	C	C	R	R			
355-U1457B-29F-2-A 60/60-SED	183.24	183.24	0	40	60	C	C	R	R	Tr		
355-U1457B-29F-2-A 80/80-SED	183.44	183.44	75	25	0	C	C	R		C		
355-U1457B-31F-1-A 11/11-SED	190.71	190.71	0	30	70	C	R	Tr				
355-U1457B-31F-1-A 38/38-SED	190.98	190.98	75	25	0	A	C	C	R	C		
355-U1457B-33F-1-A 129/129-SED	201.29	201.29	80	20	0	A	C	R		C	Tr	
355-U1457B-33F-1-A 55/55-SED	200.55	200.55	0	45	55	C	R	R				
355-U1457B-33F-1-A 70/70-SED	200.7	200.7	10	50	40	A	C	R		C		
355-U1457B-33F-2-A 53/53-SED	201.96	201.96	20	50	30	C	C	R		R		

Sample	Heavy minerals abundance	Zircon relative abundance	Zircon relative abundance rank	Tourmaline relative abundance	Tourmaline relative abundance rank	Rutile relative abundance	Rutile relative abundance rank	Apatite relative abundance	Apatite relative abundance rank	Titanite relative abundance	Titanite relative abundance rank	Spinel relative abundance	Spinel relative abundance rank
355-U1457B-1H-1-A 20/20-SED	Tr												
355-U1457B-1H-1-A 61/61-SED	Tr	Tr	1										
355-U1457B-1H-3-A 21/21-SED	Tr			Tr	1					Tr	1		
355-U1457B-2H-1-A 78/78-SED	R			Tr	1					Tr	1		
355-U1457B-2H-2-A 129/129-SED	C			C	2			Tr	1	Tr	1		
355-U1457B-2H-5-A 80/80-SED													
355-U1457B-2H-6-A 48/48-SED													
355-U1457B-3H-1-A 120/120-SED													
355-U1457B-3H-1-A 27/27-SED	R			A	3								
355-U1457B-3H-5-A 19/19-SED	Tr			C	2								
355-U1457B-3H-6-A 40/40-SED	Tr	Tr	1			Tr	1						
355-U1457B-4H-3-A 65/65-SED	C	Tr	1	Tr	1	Tr	1			Tr	1		
355-U1457B-5H-3-A 106/106-SED	R			Tr	1			Tr	1				
355-U1457B-5H-5-A 78/78-SED	Tr					Tr	1						
355-U1457B-6H-4-A 87/87-SED	Tr									Tr	1		
355-U1457B-6H-5-A 88/88-SED													
355-U1457B-7H-4-A 82/82-SED													
355-U1457B-7H-5-A 47/47-SED	C	Tr	1	Tr	1							Tr	1
355-U1457B-8H-5-A 78/78-SED	Tr					Tr	1						
355-U1457B-8H-6-A 39/39-SED	Tr			Tr	1								
355-U1457B-9H-2-A 103/103-SED													
355-U1457B-9H-2-A 95/95-SED	Tr												
355-U1457B-10H-6-A 63/63-SED													
355-U1457B-10H-6-A 70/70-SED	R	Tr	1	C	2								
355-U1457B-14F-1-A 60/60-SED	Tr	Tr	1	C	2					Tr	1		
355-U1457B-15F-1-A 49/49-SED	Tr	Tr	1	Tr	1								
355-U1457B-17F-1-A 44/44-SED	R	Tr	1										
355-U1457B-17F-4-A 38/38-SED	C	Tr	1	C	2			C	2	Tr	1		
355-U1457B-19F-1-A 81/81-SED	R	Tr	1										
355-U1457B-19F-3-A 71/71-SED	C	Tr	1	C	2			C	2				
355-U1457B-21F-2-A 41/41-SED	C	Tr	1	C	2	Tr	1			Tr	1		
355-U1457B-21F-3-A 56/56-SED	R	Tr	1	C	2	Tr	1			Tr	1		
355-U1457B-23F-1-A 70/70-SED	R	Tr	1							Tr	1		
355-U1457B-23F-3-A 50/50-SED	C	Tr	1	A	3	C	2	Tr	1	Tr	1		
355-U1457B-25F-4-A 24/24-SED	R			Tr	1	Tr	1			Tr	1		
355-U1457B-27F-3-A 20/20-SED	Tr			Tr	1								
355-U1457B-29F-2-A 35/35-SED	Tr	Tr	1			Tr	1						
355-U1457B-29F-2-A 60/60-SED	R	Tr	1	Tr	1								
355-U1457B-29F-2-A 80/80-SED	C	Tr	1	Tr	1								
355-U1457B-31F-1-A 11/11-SED	Tr							Tr	1				
355-U1457B-31F-1-A 38/38-SED	C	Tr	1	C	2	Tr	1	Tr	1	Tr	1		
355-U1457B-33F-1-A 129/129-SED	C					Tr	1					Tr	1
355-U1457B-33F-1-A 55/55-SED	R			Tr	1	Tr	1						
355-U1457B-33F-1-A 70/70-SED	R			Tr	1	Tr	1						
355-U1457B-33F-2-A 53/53-SED	C			Tr	1	Tr	1						

Sample	Hornblende relative abundance	Hornblende relative abundance rank	Actinolite relative abundance	Actinolite relative abundance rank	Glaucophane relative abundance	Glaucophane relative abundance rank	Augite relative abundance	Augite relative abundance rank	Other clinopyroxenes relative abundance	Other CPX relative abundance rank	Enstatite relative abundance	Enstatite relative abundance rank	Hypersthene relative abundance	Hypersthene relative abundance rank
355-U1457B-1H-1-A 20/20-SED									A	3				
355-U1457B-1H-1-A 61/61-SED	C	2												
355-U1457B-1H-3-A 21/21-SED	C	2												
355-U1457B-2H-1-A 78/78-SED	A	3							Tr	1				
355-U1457B-2H-2-A 129/129-SED	A	3							A	3				
355-U1457B-2H-5-A 80/80-SED														
355-U1457B-2H-6-A 48/48-SED														
355-U1457B-3H-1-A 120/120-SED														
355-U1457B-3H-1-A 27/27-SED	A	3							Tr	1				
355-U1457B-3H-5-A 19/19-SED														
355-U1457B-3H-6-A 40/40-SED														
355-U1457B-4H-3-A 65/65-SED	A	3	Tr	1			C	2						
355-U1457B-5H-3-A 106/106-SED	Tr	1					C	2						
355-U1457B-5H-5-A 78/78-SED	Tr	1												
355-U1457B-6H-4-A 87/87-SED	Tr	1												
355-U1457B-6H-5-A 88/88-SED														
355-U1457B-7H-4-A 82/82-SED														
355-U1457B-7H-5-A 47/47-SED	A	3					C	2						
355-U1457B-8H-5-A 78/78-SED	Tr	1												
355-U1457B-8H-6-A 39/39-SED	C	2	Tr	1	Tr	1								
355-U1457B-9H-2-A 103/103-SED														
355-U1457B-9H-2-A 95/95-SED	A	3												
355-U1457B-10H-6-A 63/63-SED														
355-U1457B-10H-6-A 70/70-SED	C	2												
355-U1457B-14F-1-A 60/60-SED	C	2												
355-U1457B-15F-1-A 49/49-SED	C	2												
355-U1457B-17F-1-A 44/44-SED	A	3												
355-U1457B-17F-4-A 38/38-SED	A	3							Tr	1				
355-U1457B-19F-1-A 81/81-SED	C	2												
355-U1457B-19F-3-A 71/71-SED	A	3							Tr	1				
355-U1457B-21F-2-A 41/41-SED	A	3	A	3					Tr	1				
355-U1457B-21F-3-A 56/56-SED	C	2	C	2										
355-U1457B-23F-1-A 70/70-SED	C	2	C	2										
355-U1457B-23F-3-A 50/50-SED	A	3	A	3										
355-U1457B-25F-4-A 24/24-SED	C	2												
355-U1457B-27F-3-A 20/20-SED	C	2												
355-U1457B-29F-2-A 35/35-SED														
355-U1457B-29F-2-A 60/60-SED	A	3												
355-U1457B-29F-2-A 80/80-SED	A	3	Tr	1					Tr	1				
355-U1457B-31F-1-A 11/11-SED	C	2												
355-U1457B-31F-1-A 38/38-SED	A	3	C	2										
355-U1457B-33F-1-A 129/129-SED	A	3											Tr	1
355-U1457B-33F-1-A 55/55-SED	Tr	1												
355-U1457B-33F-1-A 70/70-SED	C	2												
355-U1457B-33F-2-A 53/53-SED	C	2												

Sample	Epidote relative abundance	Epidote relative abundance rank	Zoisite relative abundance	Zoisite relative abundance rank	Allanite relative abundance	Allanite relative abundance rank	Garnet relative abundance	Garnet relative abundance rank	Staurolite relative abundance	Staurolite relative abundance rank	Chloritoid relative abundance	Chloritoid relative abundance rank	Kyanite relative abundance	Kyanite relative abundance rank	Sillimanite relative abundance	Sillimanite relative abundance rank	Opaques relative abundance	Opaques relative abundance rank
355-U1457B-1H-1-A 20/20-SED																		
355-U1457B-1H-1-A 61/61-SED																		
355-U1457B-1H-3-A 21/21-SED	Tr	1																
355-U1457B-2H-1-A 78/78-SED																		
355-U1457B-2H-2-A 129/129-SED	C	2					Tr	1										
355-U1457B-2H-5-A 80/80-SED																		
355-U1457B-2H-6-A 48/48-SED																		
355-U1457B-3H-1-A 120/120-SED																		
355-U1457B-3H-1-A 27/27-SED	Tr	1																
355-U1457B-3H-5-A 19/19-SED	C	2																
355-U1457B-3H-6-A 40/40-SED																		
355-U1457B-4H-3-A 65/65-SED	C	2			Tr	1											C	2
355-U1457B-5H-3-A 106/106-SED	Tr	1															C	2
355-U1457B-5H-5-A 78/78-SED	Tr	1																
355-U1457B-6H-4-A 87/87-SED							Tr	1										
355-U1457B-6H-5-A 88/88-SED																		
355-U1457B-7H-4-A 82/82-SED																		
355-U1457B-7H-5-A 47/47-SED																		
355-U1457B-8H-5-A 78/78-SED	Tr	1					Tr	1										
355-U1457B-8H-6-A 39/39-SED	Tr	1															C	2
355-U1457B-9H-2-A 103/103-SED																		
355-U1457B-9H-2-A 95/95-SED																		
355-U1457B-10H-6-A 63/63-SED																		
355-U1457B-10H-6-A 70/70-SED																		
355-U1457B-14F-1-A 60/60-SED																		
355-U1457B-15F-1-A 49/49-SED																		
355-U1457B-17F-1-A 44/44-SED	Tr	1																
355-U1457B-17F-4-A 38/38-SED							Tr	1									Tr	1
355-U1457B-19F-1-A 81/81-SED																		
355-U1457B-19F-3-A 71/71-SED	C	2					Tr	1							Tr	1		
355-U1457B-21F-2-A 41/41-SED	C	2					Tr	1							Tr	1		
355-U1457B-21F-3-A 56/56-SED	Tr	1																
355-U1457B-23F-1-A 70/70-SED	C	2																
355-U1457B-23F-3-A 50/50-SED	C	2					Tr	1										
355-U1457B-25F-4-A 24/24-SED	C	2																
355-U1457B-27F-3-A 20/20-SED	Tr	1																
355-U1457B-29F-2-A 35/35-SED	Tr	1																
355-U1457B-29F-2-A 60/60-SED	C	2															Tr	1
355-U1457B-29F-2-A 80/80-SED	C	2					Tr	1					Tr	1				
355-U1457B-31F-1-A 11/11-SED	Tr	1																
355-U1457B-31F-1-A 38/38-SED	C	2			Tr	1	Tr	1					Tr	1			Tr	1
355-U1457B-33F-1-A 129/129-SED	C	2					C	2					Tr	1				
355-U1457B-33F-1-A 55/55-SED	C	2																
355-U1457B-33F-1-A 70/70-SED	C	2					Tr	1										
355-U1457B-33F-2-A 53/53-SED	A	3					Tr	1										

Sample	Fe sulfides (opaques) abundance	Fe-oxides abundance	Ti-oxides abundance	Carbonate, detrital abundance	Carbonate, authigenic abundance	Foraminifers abundance	Calcareous nannofossil abundance	Pteropod fragments abundance	Other calcareous bioclasts abundance	Radiolarians abundance	Diatoms abundance	Sponge spicule fragments abundance	Other biosiliceous fossil fragments abundance	Fish debris abundance	Plant debris abundance	Organic matter abundance	Total of group estimates [%]
355-U1457B-1H-1-A 20/20-SED	R				R	C	D					Tr					
355-U1457B-1H-1-A 61/61-SED	R				R	C	D		R			R					
355-U1457B-1H-3-A 21/21-SED	R	R		Tr		C	D					R					
355-U1457B-2H-1-A 78/78-SED	C	R		R	C	C	D		R								
355-U1457B-2H-2-A 129/129-SED	A	Tr		R		R											
355-U1457B-2H-5-A 80/80-SED	C	Tr			R	C	D										
355-U1457B-2H-6-A 48/48-SED	R	Tr			C	Tr	D										
355-U1457B-3H-1-A 120/120-SED	R				R	R	D										
355-U1457B-3H-1-A 27/27-SED	C	Tr			R	R	D		Tr								
355-U1457B-3H-5-A 19/19-SED	R	Tr			C	R	D					Tr					
355-U1457B-3H-6-A 40/40-SED	R	Tr			C	R	D					Tr					
355-U1457B-4H-3-A 65/65-SED	R	Tr	Tr	C	Tr	Tr						Tr					
355-U1457B-5H-3-A 106/106-SED	R	Tr		C		R			R								
355-U1457B-5H-5-A 78/78-SED	R	Tr		D			C		R								
355-U1457B-6H-4-A 87/87-SED	C	R		A		R	A										
355-U1457B-6H-5-A 88/88-SED		Tr		D		Tr			C						Tr		
355-U1457B-7H-4-A 82/82-SED	R	Tr				Tr	D		R							R	
355-U1457B-7H-5-A 47/47-SED		R		Tr	Tr	Tr			Tr								
355-U1457B-8H-5-A 78/78-SED		R					R		C						R		
355-U1457B-8H-6-A 39/39-SED		Tr		C	Tr	Tr			C							R	
355-U1457B-9H-2-A 103/103-SED	C	Tr			C	R	D										
355-U1457B-9H-2-A 95/95-SED	C	Tr			R	R	D		Tr			R					
355-U1457B-10H-6-A 63/63-SED	C	R			A		A										
355-U1457B-10H-6-A 70/70-SED	A	R		R	R							Tr					
355-U1457B-14F-1-A 60/60-SED	C	Tr			C		A					Tr					
355-U1457B-15F-1-A 49/49-SED	C	R		Tr	C		A					Tr					
355-U1457B-17F-1-A 44/44-SED	C	Tr		Tr	R	Tr	A		Tr			Tr					
355-U1457B-17F-4-A 38/38-SED	C	Tr		R		R	R		Tr								
355-U1457B-19F-1-A 81/81-SED	C	Tr		Tr	R		C		Tr						Tr		
355-U1457B-19F-3-A 71/71-SED	C	Tr		Tr	R	Tr	Tr										
355-U1457B-21F-2-A 41/41-SED	C	R		R	R		Tr										
355-U1457B-21F-3-A 56/56-SED	C	R		Tr	R		C										
355-U1457B-23F-1-A 70/70-SED	C	Tr		Tr	R		C										
355-U1457B-23F-3-A 50/50-SED	C	R		R	R		Tr										
355-U1457B-25F-4-A 24/24-SED	Tr	Tr	Tr	C											Tr	R	
355-U1457B-27F-3-A 20/20-SED	Tr	Tr	Tr	C											Tr	Tr	
355-U1457B-29F-2-A 35/35-SED		R													Tr	Tr	
355-U1457B-29F-2-A 60/60-SED		R	Tr	C			Tr								Tr	Tr	
355-U1457B-29F-2-A 80/80-SED				R	Tr												
355-U1457B-31F-1-A 11/11-SED	Tr	Tr			Tr		R		R						Tr	Tr	
355-U1457B-31F-1-A 38/38-SED		Tr	Tr			Tr											
355-U1457B-33F-1-A 129/129-SED				R													
355-U1457B-33F-1-A 55/55-SED	Tr	Tr		R			R		R						Tr	R	
355-U1457B-33F-1-A 70/70-SED	R	R	Tr	R	Tr											R	
355-U1457B-33F-2-A 53/53-SED	R	R		C	Tr	Tr									Tr	R	

Sample	Lithology prefix	Principal lithology	Lithology suffix	Lithology major or minor	Lithology comment	Smear slide comment
355-U1457B-1H-1-A 20/20-SED	foraminifer rich	nannofossil ooze		major lithology		
355-U1457B-1H-1-A 61/61-SED	foraminifer rich	nannofossil ooze		minor lithology		
355-U1457B-1H-3-A 21/21-SED	nannofossil rich	clay	with silt	minor lithology		
355-U1457B-2H-1-A 78/78-SED		nannofossil ooze	with silt	major lithology		
355-U1457B-2H-2-A 129/129-SED		silt	with sand	minor lithology		
355-U1457B-2H-5-A 80/80-SED		nannofossil ooze		major lithology		
355-U1457B-2H-6-A 48/48-SED		nannofossil ooze		minor lithology		
355-U1457B-3H-1-A 120/120-SED		nannofossil ooze		major lithology		
355-U1457B-3H-1-A 27/27-SED	nannofossil rich	clay	with silt	major lithology		
355-U1457B-3H-5-A 19/19-SED	nannofossil rich	clay		major lithology		
355-U1457B-3H-6-A 40/40-SED		nannofossil ooze		major lithology		
355-U1457B-4H-3-A 65/65-SED	silty	sand		minor lithology		Etched augite; Hematite; Ti-ox (anatase and brookite)
355-U1457B-5H-3-A 106/106-SED	silty	sand	with clay	minor lithology		Etched augite
355-U1457B-5H-5-A 78/78-SED		calcareous ooze		major lithology		
355-U1457B-6H-4-A 87/87-SED	silty	clay	with nannofossils	minor lithology		
355-U1457B-6H-5-A 88/88-SED		calcareous ooze	with nannofossils	major lithology		
355-U1457B-7H-4-A 82/82-SED		nannofossil ooze		major lithology		
355-U1457B-7H-5-A 47/47-SED		sand	with silt	minor lithology		Etched and skeletal augite
355-U1457B-8H-5-A 78/78-SED	silty	clay		major lithology		
355-U1457B-8H-6-A 39/39-SED	calcareous rich	clay		minor lithology		
355-U1457B-9H-2-A 103/103-SED	nannofossil rich	clay		major lithology		
355-U1457B-9H-2-A 95/95-SED	nannofossil rich	clay		major lithology		
355-U1457B-10H-6-A 63/63-SED	nannofossil rich	clay	with silt	major lithology		
355-U1457B-10H-6-A 70/70-SED	sandy	silt		minor lithology		
355-U1457B-14F-1-A 60/60-SED	nannofossil rich	clay	with silt	major lithology		
355-U1457B-15F-1-A 49/49-SED	nannofossil rich	clay	with silt	major lithology		
355-U1457B-17F-1-A 44/44-SED	silty	clay	with nannofossils	major lithology		
355-U1457B-17F-4-A 38/38-SED	silty	sand		minor lithology		
355-U1457B-19F-1-A 81/81-SED	silty	clay		major lithology		
355-U1457B-19F-3-A 71/71-SED		silt		minor lithology		
355-U1457B-21F-2-A 41/41-SED		silt		minor lithology		
355-U1457B-21F-3-A 56/56-SED	silty	clay	with nannofossils	major lithology		
355-U1457B-23F-1-A 70/70-SED	silty	clay	with nannofossils	major lithology		
355-U1457B-23F-3-A 50/50-SED	sandy	silt		major lithology		
355-U1457B-25F-4-A 24/24-SED	silty	clay		major lithology		Hematite
355-U1457B-27F-3-A 20/20-SED	silty	clay		major lithology		Hematite
355-U1457B-29F-2-A 35/35-SED	silty	clay		major lithology		Hematite
355-U1457B-29F-2-A 60/60-SED	silty	clay		major lithology		Hematite
355-U1457B-29F-2-A 80/80-SED	silty	sand		minor lithology		Skeletal cpx; green tou with black inclusions
355-U1457B-31F-1-A 11/11-SED	silty	clay		major lithology		
355-U1457B-31F-1-A 38/38-SED	silty	sand		minor lithology		Hematite
355-U1457B-33F-1-A 129/129-SED		sand		minor lithology		Subrounded and corroded Hypersthene
355-U1457B-33F-1-A 55/55-SED	silty	clay		minor lithology		Hematite
355-U1457B-33F-1-A 70/70-SED	clayey	silt		major lithology		Hematite
355-U1457B-33F-2-A 53/53-SED	clayey	silt		minor lithology		Hematite

Sample	Top Depth [m]	Bottom Depth [m]	Sand texture [%]	Silt texture [%]	Clay texture [%]	Quartz abundance	Feldspar abundance	Mica abundance	Clay minerals abundance	Lithic grains abundance	Glauconite abundance	Vitric grains abundance	Heavy minerals abundance	Zircon relative abundance	Zircon relative abundance rank	Tourmaline relative abundance	Tourmaline relative abundance rank	Rutile relative abundance	Rutile relative abundance rank	Apatite relative abundance	Apatite relative abundance rank	Titanite relative abundance	Titanite relative abundance rank	Spinel relative abundance	Spinel relative abundance rank	Hornblende relative abundance	Hornblende relative abundance rank	Actinolite relative abundance	Actinolite relative abundance rank	Glaucophane relative abundance	Glaucophane relative abundance rank	Augite relative abundance	Augite relative abundance rank	Other clinopyroxenes relative abundance	Other CPX relative abundance rank	Enstatite relative abundance	Enstatite relative abundance rank	Hypersthene relative abundance	Hypersthene relative abundance rank	Epidote relative abundance	Epidote relative abundance rank	Zoisite relative abundance	Zoisite relative abundance rank	Allanite relative abundance	Allanite relative abundance rank	Garnet relative abundance	Garnet relative abundance rank	Staurolite relative abundance	Staurolite relative abundance rank	Chloritoid relative abundance	Chloritoid relative abundance rank	Kyanite relative abundance	Kyanite relative abundance rank	Sillimanite relative abundance	Sillimanite relative abundance rank	Opaques relative abundance	Opaques relative abundance rank
355-U1457C-2R-1-A 7/7-SED	191.67	191.67	5	25	70	C	R	R	Tr	Tr			R	Tr	1	Tr	1	Tr	1	Tr	1					C	2	Tr	1					Tr	1					A	3					C	2										
355-U1457C-3R-1-A 56/56-SED	201.86	201.86	10	30	60	C	R	R	R	R			R	Tr	1	Tr	1			Tr	1	Tr	1			A	3	Tr	1					Tr	1					C	2			Tr	1	C	2										
355-U1457C-5R-CC-A 3/3-SED	220.73	220.73	10	15	75	R	Tr	Tr	Tr				Tr	Tr	1	Tr	1					Tr	1			Tr	1							Tr	1					Tr	1	Tr	1			C	2										
355-U1457C-6R-1-A 79/79-SED	231.19	231.19	0	30	70	R	R	R					R					Tr	1			Tr	1			C	2	A	3											Tr	1																
355-U1457C-7R-1-A 53/53-SED	240.63	240.63	10	60	30	C	C	C					C	Tr	1	C	2	Tr	1	Tr	1	Tr	1			A	3	A	3											Tr	1																
355-U1457C-8R-1-A 61/61-SED	250.41	250.41	0	25	75	R	R	R					R					Tr	1			Tr	1			C	2	A	3					Tr	1					C	2															Tr	1
355-U1457C-9R-1-A 42/42-SED	259.92	259.92	0	40	60	C	C	C					C	Tr	1	C	2	Tr	1	Tr	1	Tr	1			C	2	A	3											C	2															Tr	1
355-U1457C-10R-1-A 60/60-SED	269.8	269.8	0	30	70	C	R	R					R	Tr	1	C	2	C	2							C	2	A	3																												
355-U1457C-10R-2-A 35/35-SED	270.76	270.76	30	60	10	A	A	C	R				C	Tr	1	C	2	Tr	1			Tr	1			A	3	C	2					Tr	1											Tr	1										
355-U1457C-11R-1-A 84/84-SED	279.74	279.74	0	20	80	R	R	Tr					R					Tr	1	Tr	1	Tr	1			C	2	A	3											Tr	1															Tr	1
355-U1457C-13R-1-A 22/22-SED	298.52	298.52	60	30	10	A	A	A					A	Tr	1	C	2	Tr	1	C	2	Tr	1			A	3	C	2					C	2					C	2					Tr	1										
355-U1457C-14R-1-A 11/11-SED	308.11	308.11	30	50	20	C	R	C		R			R	Tr	1	C	2	Tr	1							A	3	Tr	1											C	2					Tr	1			Tr	1						
355-U1457C-14R-1-A 87/87-SED	308.87	308.87	0	30	70	C	R	C	R				Tr					Tr	1							C	2													C	2																
355-U1457C-14R-1-A 9/9-SED	308.09	308.09	0	10	90	Tr	Tr	Tr					Tr					Tr	1			Tr	1			C	2																														
355-U1457C-18R-2-A 56/56-SED	348.86	348.86	0	20	80	Tr		Tr																																																	
355-U1457C-18R-2-A 62/62-SED	348.92	348.92	0	20	80	Tr		Tr					Tr													Tr	1																													Tr	1
355-U1457C-18R-3-A 37/37-SED	350.17	350.17	0	70	30	A	C	R					C	Tr	1	Tr	1	Tr	1							A	3	Tr	1					Tr	1					C	2					Tr	1										
355-U1457C-18R-3-A 70/70-SED	350.5	350.5	0	30	70	R		Tr					Tr					Tr	1							Tr	1													Tr	1															Tr	1
355-U1457C-19R-3-A 96/96-SED	360.46	360.46	0	20	80	R	R	R					R			C	2	Tr	1			Tr	1			C	2	C	2																	Tr	1										
355-U1457C-19R-4-A 124/124-SED	362.24	362.24	20	70	10	C	C	A					C	Tr	1	Tr	1	Tr	1							C	2	C	2											Tr	1																
355-U1457C-19R-5-A 99/99-SED	363.49	363.49	50	30	20	C	C	A	C				C	Tr	1	C	2	Tr	1			Tr	1			A	3	C	2					Tr	1					C	2					Tr	1										
355-U1457C-20R-1-A 79/79-SED	366.99	366.99	50	25	25	C	C	C	R	R	Tr		C			C	2									A	3	C	2					Tr	1					Tr	1					Tr	1										
355-U1457C-20R-2-A 28/28-SED	367.95	367.95	0	20	80	R	R	R					Tr					Tr	1									C	2																												
355-U1457C-22R-1-A 45/45-SED	386.05	386.05	0	40	60	A	A	C					C	Tr	1	C	2	Tr	1	C	2					A	3	A	3																	Tr	1									Tr	1
355-U1457C-22R-2-A 123/123-SED	388.33	388.33	55	30	15	C	C	C	R		Tr		R			C	2									C	2													Tr	1															Tr	1
355-U1457C-22R-3-A 83/83-SED	389.43	389.43	5	20	75	R	R	R			R		R			C	2	Tr	1			Tr	1			C	2	C	2											Tr	1															Tr	1
355-U1457C-22R-4-A 70/70-SED	390.8	390.8	0	15	85	R	R	R	R				Tr					Tr	1							Tr	1	C	2																												
355-U1457C-23R-1-A 108/108-SED	396.38	396.38	10	40	50	C	C	R					C	Tr	1	C	2	C	2			Tr	1			C	2													Tr	1															Tr	1
355-U1457C-23R-1-A 50/50-SED	395.8	395.8	10	30	60	R	R	R					R					Tr	1							Tr	1	C	2											Tr	1															Tr	1
355-U1457C-23R-3-A 93/93-SED	399.09	399.09	0	25	75	R	R	R					R					Tr	1			Tr	1					C	2																												
355-U1457C-23R-5-A 29/29-SED	401.34	401.34	0	10	90	R	Tr	R					R					Tr	1									C	2											Tr	1																
355-U1457C-23R-6-A 13/13-SED	402.46	402.46	10	25	65	C	C	R	R				R			Tr	1	Tr	1							C	2	C	2											Tr	1																
355-U1457C-24R-1-A 97/97-SED	405.97	405.97	10	75	15	C	C	R		Tr			C			C	2	Tr	1			Tr	1			C	2	C	2											C	2					Tr	1									C	2
355-U1457C-24R-3-A 72/72-SED	408.5	408.5	0	10	90	Tr	Tr	Tr																																																	
355-U1457C-24R-4-A 113/113-SED	410.07	410.07	5	25	70	Tr	Tr	Tr					Tr					Tr	1			Tr	1					C	2											C	2																
355-U1457C-24R-6-A 64/64-SED	412.49	412.49	0	15	85	R	R	Tr	A				Tr					Tr	1			Tr	1					C	2																												
355-U1457C-25R-1-A 124/124-SED	415.94	415.94	0	20	80	Tr	Tr	C					Tr													Tr	1																													Tr	1
355-U1457C-25R-1-A 95/95-SED	415.65	415.65	10	15	75	Tr		R					Tr			Tr	1																																							Tr	1
355-U1457C-25R-2-A 26/26-SED	416.38	416.38	5	25	70	C	R	C		Tr			Tr	Tr	1											Tr	1													Tr	1			Tr	1												
355-U1457C-25R-5-A 105/105-SED	421.68	421.68	0	90	10	A	C	C					C			Tr	1					Tr	1			A	3													C	2																
355-U1457C-25R-5-A 28/28-SED	420.91	420.91	0	10	90	R		Tr					Tr													Tr	1													Tr	1																
355-U1457C-25R-5-A 61/61-SED	421.24	421.24	0	25	75	R	Tr	R					R													C	2													Tr	1					Tr	1										
355-U1457C-26R-1-A 73/73-SED	425.13	425.13	0	10	90	R		R																																																	
355-U1457C-26R-1-A 75/75-SED	425.15	425.15	10	30	60	A	C	R	Tr				C	Tr	1	Tr	1	Tr	1							A	3	Tr	1											C	2					Tr	1										
355-U1457C-27R-1-A 33/33-SED	434.43	434.43	0	10	90	C	R	C					R													Tr	1													Tr	1																
355-U1457C-27R-1-A 61/61-SED	434.71	434.71	5	80	15	C	C	R					C					Tr	1			Tr	1			A	3	C	2											Tr	1					Tr	1										
355-U1457C-28R-1-PAL-SED	443.8	443.85	40	50	10	A	C	R	Tr	C			C	Tr	1	Tr	1	Tr	1			C	2			A	3	C	2					Tr	1			Tr	1	C	2			Tr	1	C	2					Tr	1	Tr	1	Tr	1
355-U1457C-29R-1-A 32/32-SED	453.82	453.82	10	70	20	A	C	R					C	Tr	1			Tr	1	Tr	1	Tr	1			A	3	Tr	1											C	2					C	2					Tr	1			Tr	1
355-U1457C-29R-1-A 67/67-SED	454.17	454.17	20	50	30	C	R	C	Tr	R			C	Tr	1	Tr	1	Tr	1	Tr	1	Tr	1			A	3							Tr	1			Tr	1	C	2	Tr	1			C	2					Tr	1			Tr	1
355-U1457C-30R-1-A 46/46-SED	463.66	463.66	10	60	30	A	C	Tr	R				R	Tr	1	Tr	1	Tr	1			Tr	1			C	2													C	2					Tr	1					Tr	1				
355-U1457C-31R-2-A 31/31-SED	474.71	474.71	10	60	30	R	Tr	R		Tr			C	Tr	1	Tr	1					Tr	1			A	3													C	2			Tr	1	Tr	1					Tr	1				
355-U1457C-31R-2-A 94/94-SED	475.34	475.34	10	30	60	C	R	C					R					Tr	1							C	2	Tr	1											C	2					Tr	1					Tr	1				
355-U1457C-32R-1-A 33/33-SED	482.93	482.93	0	5	95	Tr		R					Tr																											Tr	1															Tr	1
355-U1457C-32R-2-A 70/70-SED	484.01	484.01	0	60	40	C	R	C					C	Tr	1	Tr	1	Tr	1			Tr	1			A	3											Tr	1	C	2					Tr	1										
355-U1457C-32R-2-A 83/83-SED	484.14	484.14	0	10	90	Tr		Tr					Tr																											Tr	1															Tr	1
355-U1457C-33R-2-A 100/100-SED	494.8	494.8	60	30	10	C	C	A					C	Tr	1	C	2			Tr	1	Tr	1			C	2	Tr	1					Tr	1					C	2					Tr	1										
355-U1457C-33R-3-A 24/24-SED	495.54	495.54	25	65	10	A	C	R		C			C	Tr	1	Tr	1			Tr	1	Tr	1			A	3	Tr	1											C	2			Tr	1	C	2										
355-U1457C-33R-3-A 49/49-SED	495.79	495.79	0	15	85	Tr		C																																																	
355-U1457C-34R-1-A 100/100-SED	503	503	45	35	20	C	C	C					C	Tr	1	C	2	Tr	1	Tr	1	Tr	1			C	2	C	2					Tr	1																						
355-U1457C-34R-2-A 11/11-SED	503.61	503.61	0	20	80	R	R	R					Tr					Tr	1									Tr	1											Tr	1																
355-U1457C-34R-2-A 70/70-SED	504.2	504.2	0	30	70	R	R	R					R	Tr	1			Tr	1									C	2											Tr	1																
355-U1457C-34R-3-A 84/84-SED	505.84	505.84	0	25	75	R	R	R	C				Tr															A	3																												
355-U1457C-35R-2-A 22/22-SED	513.42	513.42	0	25	75	R	R	R					Tr					Tr	1									Tr	1																												
355-U1457C-35R-3-A 37/37-SED	515.07	515.07	5	25	70	R	R	R					Tr	Tr	1							Tr	1					Tr	1																												
355-U1457C-35R-5-A 92/92-SED	518.62	518.62	30	50	20	C	C	C		R	R		C	Tr	1	Tr	1	Tr	1	Tr	1	Tr	1			C	2	C	2											Tr	1																
355-U1457C-35R-7-A 48/48-SED	521.18	521.18	0	25	75	Tr	Tr	Tr					Tr					Tr	1	Tr	1							Tr	1																												
355-U1457C-36R-1-A 122/122-SED	522.62	522.62	0	15	85	Tr	Tr	R					Tr					Tr	1			Tr	1																																		
355-U1457C-36R-2-A 24/24-SED	523.14	523.14	60	30	10	C	C	R		Tr			C	Tr	1	C	2			C	2	Tr	1	Tr	1	C	2	C	2					Tr	1					Tr	1					Tr	1										
355-U1457C-37R-1-A 86/86-SED	531.96	531.96	60	30	10	C	C	R		Tr			C	Tr	1	C	2	Tr	1	Tr	1	Tr	1			C	2	C	2	Tr	1									Tr	1					Tr	1										
355-U1457C-37R-2-A 53/53-SED	533.13	533.13	0	30	70	R	R	R	R				R					Tr	1	Tr	1					C	2	C	2											Tr	1																
355-U1457C-38R-1-A 41/41-SED	541.21	541.21	0	10	90	Tr	Tr	Tr					Tr					Tr	1																																						
355-U1457C-38R-2-A 43/43-SED	542.73	542.73	55	30	15	C	C	C		Tr			C			Tr	1	Tr	1	Tr	1	Tr	1			C	2	C	2											Tr	1															Tr	1
355-U1457C-39R-2-A 112/112-SED	553.12	553.12	0	5	95			Tr	C				Tr					Tr	1																					Tr	1																
355-U1457C-39R-2-A 12/12-SED	552.12	552.12	15	45	40	C	C	R		R			R			Tr	1					C	2			C	2	Tr	1					Tr	1					C	2					Tr	1									Tr	1
355-U1457C-39R-3-A 36/36-SED	553.86	553.86	0	25	75	Tr			R				Tr																											Tr	1															Tr	1
355-U1457C-39R-3-A 46/46-SED	553.96	553.96	35	25	40	C	R	C		R			C			Tr	1	Tr	1							A	3	Tr	1					C	2					A	3					Tr	1					C	2			Tr	1
355-U1457C-40R-1-A 82/82-SED	561.02	561.02	10	70	20	C	R	C					R					Tr	1							C	2	Tr	1											C	2																
355-U1457C-40R-2-A 116/116-SED	562.67	562.67	35	40	25	C	R	R		C			R	Tr	1			Tr	1	Tr	1	Tr	1			A	3													C	2					C	2										
355-U1457C-40R-2-A 86/86-SED	562.37	562.37	10	70	30	A	C	R					Tr					Tr	1							Tr	1													Tr	1					Tr	1										
355-U1457C-40R-2-A 92/92-SED	562.43	562.43	0	5	95	R		R	C																																																
355-U1457C-41R-1-A 51/51-SED	570.41	570.41	0	10	90	R		Tr					Tr																											Tr	1															Tr	1
355-U1457C-41R-1-A 54/54-SED	570.44	570.44	15	80	5	A	C	C					R			Tr	1	Tr	1							Tr	1	Tr	1											C	2					Tr	1									Tr	1
355-U1457C-41R-1-A 67/67-SED	570.57	570.57	35	40	25	C	R	Tr					C			Tr	1					C	2			C	2													C	2																

Sample	Fe sulfides (opaques) abundance	Fe-oxides abundance	Ti-oxides abundance	Carbonate, detrital abundance	Carbonate, authigenic abundance	Foraminifers abundance	Calcareous nannofossil abundance	Pteropod fragments abundance	Other calcareous bioclasts abundance	Radiolarians abundance	Diatoms abundance	Sponge spicule fragments abundance	Other biosiliceous fossil fragments abundance	Fish debris abundance	Plant debris abundance	Organic matter abundance	Total of group estimates [%]	Lithology prefix	Principal lithology	Lithology suffix	Lithology major or minor	Lithology comment	Smear slide comment
355-U1457C-2R-1-A 7/7-SED	Tr	Tr		R												Tr		silty	clay		MInor lithology		Etched cpx; hematite
355-U1457C-3R-1-A 56/56-SED	Tr	Tr	Tr	C		Tr									Tr	Tr		silty	clay	with sand	minor lithology		Skeletal cpx
355-U1457C-5R-CC-A 3/3-SED	Tr	Tr		Tr		Tr			Tr										clay	with silt	minor lithology		Etched cpx; big HM in the sand fraction
355-U1457C-6R-1-A 79/79-SED	C	Tr		Tr	C	Tr	C											silty	clay	with nannofossils	major lithology		
355-U1457C-7R-1-A 53/53-SED	C	Tr		Tr	R		C											clayey	silt	with sand	minor lithology		
355-U1457C-8R-1-A 61/61-SED	C	Tr			C		C								Tr			silty	clay	with nannofossils	major lithology		
355-U1457C-9R-1-A 42/42-SED	C	Tr			C	Tr	C											silty	clay		major lithology		
355-U1457C-10R-1-A 60/60-SED	C	Tr			R		R											silty	clay		major lithology		
355-U1457C-10R-2-A 35/35-SED	C	Tr		Tr	Tr	Tr	Tr											sandy	silt		minor lithology		
355-U1457C-11R-1-A 84/84-SED	C	Tr			R		C									Tr		silty	clay		major lithology		
355-U1457C-13R-1-A 22/22-SED	C	Tr		R	R		Tr											silty	sand		major lithology		
355-U1457C-14R-1-A 11/11-SED		Tr		R			Tr		R						Tr	Tr		sandy	silt		minor lithology		Hematite
355-U1457C-14R-1-A 87/87-SED	R	Tr					Tr		C						Tr	Tr		silty	clay		major lithology		Hematite
355-U1457C-14R-1-A 9/9-SED	Tr	Tr				Tr	R		R						R	R			clay		major lithology		Hematite
355-U1457C-18R-2-A 56/56-SED	Tr	Tr				Tr	Tr		D							Tr		calcareous rich	claystone	with silt	minor lithology		
355-U1457C-18R-2-A 62/62-SED	Tr					Tr	C		A							Tr		calcareous rich	claystone	with silt	minor lithology		
355-U1457C-18R-3-A 37/37-SED	R	Tr							C						Tr			clayey	siltstone		minor lithology		
355-U1457C-18R-3-A 70/70-SED	R	Tr					Tr		A						Tr	Tr		silty	claystone		major lithology		Hematite; phytolites
355-U1457C-19R-3-A 96/96-SED	C	Tr			C		C		Tr									silty	clay		major lithology		
355-U1457C-19R-4-A 124/124-SED	C	R			R		R		Tr						Tr			sandy	silt		minor lithology		
355-U1457C-19R-5-A 99/99-SED	C	R		R	R	Tr	R											silty	sand		minor lithology		
355-U1457C-20R-1-A 79/79-SED	C	Tr		Tr	R	Tr	R											silty	sand	with clay	minor lithology		
355-U1457C-20R-2-A 28/28-SED	C	Tr		Tr	C		R												clay	with silt	major lithology		
355-U1457C-22R-1-A 45/45-SED	C	Tr		Tr	C	Tr	C											silty	claystone	with nannofossils	major lithology		
355-U1457C-22R-2-A 123/123-SED	C	R		R	C	A	C		Tr			Tr						foraminifer rich	sandstone	with silt	minor lithology		
355-U1457C-22R-3-A 83/83-SED	C	Tr		Tr	C	R	A					Tr						nannofossil rich	claystone	with silt	major lithology		
355-U1457C-22R-4-A 70/70-SED	R	R			C	Tr	A								Tr			nannofossil rich	claystone		minor lithology		
355-U1457C-23R-1-A 108/108-SED	C	Tr		R	R	C	A											nannofossil rich	claystone	with foraminifers	major lithology		
355-U1457C-23R-1-A 50/50-SED	R	Tr		Tr	C	Tr	A		Tr									nannofossil rich	claystone	with silt	major lithology		
355-U1457C-23R-3-A 93/93-SED	C	Tr			C	Tr	A								R			nannofossil rich	claystone		major lithology		
355-U1457C-23R-5-A 29/29-SED	C	Tr		Tr	R	Tr	D		Tr						Tr			nannofossil rich	claystone		major lithology		
355-U1457C-23R-6-A 13/13-SED	C	R		Tr	R	R	D		Tr						Tr			nannofossil rich	claystone	with silt	minor lithology		
355-U1457C-24R-1-A 97/97-SED	A	Tr		Tr	R	R	C		Tr			Tr							siltstone		minor lithology		
355-U1457C-24R-3-A 72/72-SED	R	Tr			R	R	D												nannofossil chalk		minor lithology		
355-U1457C-24R-4-A 113/113-SED	R	Tr		Tr	R	R	D								Tr			nannofossil rich	claystone		major lithology		
355-U1457C-24R-6-A 64/64-SED	C	Tr			C		D		Tr									nannofossil rich	claystone		minor lithology		
355-U1457C-25R-1-A 124/124-SED	C	R			Tr		R		Tr						R	C			claystone	with silt	major lithology		Hematite
355-U1457C-25R-1-A 95/95-SED	A			R		C	R		R						Tr	Tr			claystone		minor lithology		
355-U1457C-25R-2-A 26/26-SED	R	Tr		Tr		Tr	Tr		R						R	C		silty	claystone		major lithology		
355-U1457C-25R-5-A 105/105-SED	R	Tr	Tr				Tr		C						Tr	Tr			siltstone		minor lithology		Hematite
355-U1457C-25R-5-A 28/28-SED	R	Tr		Tr	Tr		A								R	C			claystone	with nannofossils	minor lithology		Phytolites
355-U1457C-25R-5-A 61/61-SED		Tr	Tr		Tr		R		C						Tr	Tr		silty	claystone		major lithology		Phytolites elongated, grass?
355-U1457C-26R-1-A 73/73-SED	C	R					Tr		C						C	C			claystone		major lithology		Hematite; phytolites
355-U1457C-26R-1-A 75/75-SED	R	Tr		R			Tr		R							Tr		silty	claystone		minor lithology		
355-U1457C-27R-1-A 33/33-SED	Tr						R		C						Tr	R			claystone		major lithology		Phytolites
355-U1457C-27R-1-A 61/61-SED				R	Tr										C	R			siltstone		minor lithology		Big plant debris
355-U1457C-28R-1-PAL-SED	Tr	Tr					C											sandy	siltstone		major lithology		Grt size up to 350 micron; skeletal cpx; etched hypersthene
355-U1457C-29R-1-A 32/32-SED	Tr			R	Tr		C								Tr				siltstone		minor lithology		
355-U1457C-29R-1-A 67/67-SED	Tr	Tr		R					R									clayey	siltstone	with sand	minor lithology		Cpx and Hy etched; big pink garnet up to 350 micron; polymodal distribution of HM in the sediment.
355-U1457C-30R-1-A 46/46-SED	Tr	Tr		Tr			R		Tr						Tr	Tr		clayey	siltstone	with sand	minor lithology		Polymodal distribution of HM
355-U1457C-31R-2-A 31/31-SED		Tr				Tr	Tr								Tr	Tr		clayey	siltstone		minor lithology		
355-U1457C-31R-2-A 94/94-SED				R			Tr		R						R	R		silty	claystone		major lithology		Phytolites
355-U1457C-32R-1-A 33/33-SED	Tr	Tr	Tr				D		R										nannofossil chalk		minor lithology		
355-U1457C-32R-2-A 70/70-SED		Tr		R					R							R		clayey	siltstone		minor lithology		Etched hypersthene
355-U1457C-32R-2-A 83/83-SED	R	R					C								R	R			claystone		minor lithology		Hematite
355-U1457C-33R-2-A 100/100-SED	C	Tr		R	R	R	Tr					Tr						silty	sandstone		minor lithology		
355-U1457C-33R-3-A 24/24-SED	Tr	R		Tr					R						R	Tr		sandy	siltstone		minor lithology		
355-U1457C-33R-3-A 49/49-SED	C	C					C								Tr	Tr			claystone	with nannofossils	minor lithology		Hematite
355-U1457C-34R-1-A 100/100-SED	C	R		R	R		R											silty	sandstone		minor lithology		
355-U1457C-34R-2-A 11/11-SED	C	R			C		A											nannofossil rich	claystone		minor lithology		
355-U1457C-34R-2-A 70/70-SED	R	Tr			C		D											nannofossil rich	claystone		major lithology		
355-U1457C-34R-3-A 84/84-SED	C	Tr			C	Tr	D											nannofossil rich	claystone		major lithology		
355-U1457C-35R-2-A 22/22-SED	C	Tr			R		D								Tr			nannofossil rich	claystone		major lithology		
355-U1457C-35R-3-A 37/37-SED	R	Tr		Tr	R	R	D								Tr				nannofossil chalk		minor lithology		
355-U1457C-35R-5-A 92/92-SED	C	R		Tr	R	C	C		R			Tr						sandy	siltstone	with foraminifers	minor lithology		
355-U1457C-35R-7-A 48/48-SED	C	Tr			R		D								Tr			nannofossil rich	claystone		major lithology		
355-U1457C-36R-1-A 122/122-SED	R	Tr			C		D								Tr			nannofossil rich	claystone		major lithology		
355-U1457C-36R-2-A 24/24-SED	C	Tr		Tr		Tr	Tr											sandy	siltstone		minor lithology		
355-U1457C-37R-1-A 86/86-SED	R	Tr		R	R	Tr	Tr					Tr						sandy	siltstone		minor lithology		
355-U1457C-37R-2-A 53/53-SED	R	Tr			R		C								Tr			nannofossil rich	claystone		major lithology		
355-U1457C-38R-1-A 41/41-SED	Tr	Tr			C		D											nannofossil rich	claystone		major lithology		
355-U1457C-38R-2-A 43/43-SED	C	Tr		R	R	Tr	R											silty	sandstone		minor lithology		
355-U1457C-39R-2-A 112/112-SED	R	R					R		C						C	C			claystone		major lithology		
355-U1457C-39R-2-A 12/12-SED			Tr	Tr			Tr		R							Tr		clayey	siltstone	with sand	minor lithology		Skeletal cpx
355-U1457C-39R-3-A 36/36-SED	R	R					R		C						C	C		silty	claystone		major lithology		
355-U1457C-39R-3-A 46/46-SED			Tr	C					R						C			sandy	claystone		minor lithology		
355-U1457C-40R-1-A 82/82-SED	Tr	Tr					R									R			siltstone	with clay	major lithology		
355-U1457C-40R-2-A 116/116-SED						Tr			C									sandy	siltstone	with clay	major lithology		
355-U1457C-40R-2-A 86/86-SED	C						Tr								C	C		clayey	siltstone		minor lithology		
355-U1457C-40R-2-A 92/92-SED	Tr	Tr					R		C						Tr				claystone		major lithology		
355-U1457C-41R-1-A 51/51-SED	R	Tr	Tr				Tr		C						R				claystone		major lithology		Hematite
355-U1457C-41R-1-A 54/54-SED		Tr							C							Tr			siltstone	with sand	minor lithology		Hematite
355-U1457C-41R-1-A 67/67-SED		Tr		R		Tr			C									sandy	siltstone	with clay	major lithology		

Sample	Top Depth [m]	Bottom Depth [m]	Sand texture [%]	Silt texture [%]	Clay texture [%]	Quartz abundance	Feldspar abundance	Mica abundance	Clay minerals abundance	Lithic grains abundance	Glauconite abundance	Vitric grains abundance	Heavy minerals abundance	Zircon relative abundance	Zircon relative abundance rank	Tourmaline relative abundance	Tourmaline relative abundance rank	Rutile relative abundance	Rutile relative abundance rank	Apatite relative abundance	Apatite relative abundance rank	Titanite relative abundance	Titanite relative abundance rank	Spinel relative abundance	Spinel relative abundance rank	Hornblende relative abundance	Hornblende relative abundance rank	Actinolite relative abundance	Actinolite relative abundance rank
355-U1457C-42R-1-A 118/118-SED	580.78	580.78	60	25	15	C	C	C		C			C	Tr	1	Tr	1	Tr	1			Tr	1			A	3		
355-U1457C-42R-1-A 32/32-SED	579.92	579.92	25	55	20	C	R	C		R	Tr		R			Tr	1	Tr	1							C	2		
355-U1457C-43R-1-A 52/52-SED	589.82	589.82	15	75	10	A	C	C		R			R			Tr	1									C	2		
355-U1457C-43R-1-A 67/67-SED	589.97	589.97	50	30	20	C	C	R		C			C							Tr	1	Tr	1	Tr	1	A	3		
355-U1457C-43R-2-A 58/58-SED	591.29	591.29	60	30	10	A	C	C		C			C	Tr	1	Tr	1	Tr	1	Tr	1	Tr	1			A	3		
355-U1457C-44R-1-A 62/62-SED	599.62	599.62	0	5	95	Tr		Tr																					
355-U1457C-44R-2-A 30/30-SED	600.52	600.52	10	70	20	C	C	R	Tr	R			R	Tr	1	Tr	1	Tr	1							C	2		
355-U1457C-44R-3-A 15/15-SED	601.87	601.87	25	60	15	C	C	R		C			R	Tr	1	Tr	1	Tr	1					Tr	1	C	2		
355-U1457C-44R-3-A 48/48-SED	602.2	602.2	0	15	85	Tr		R					Tr													Tr	1		
355-U1457C-44R-3-A 97/97-SED	602.69	602.69	0	25	75	R		R					Tr													Tr	1		
355-U1457C-44R-4-A 91/91-SED	604.06	604.06	5	20	75	Tr		R					Tr			Tr	1	Tr	1							Tr	1	Tr	1
355-U1457C-44R-4-A 99/99-SED	604.14	604.14	20	10	70			Tr					Tr					Tr	1										
355-U1457C-46R-1-A 70/70-SED	619.1	619.1	0	10	90	Tr	Tr	Tr					Tr							Tr	1					Tr	1	Tr	1
355-U1457C-46R-3-A 3/3-SED	621.32	621.32	60	20	20	C	C	C			R		C	Tr	1	C	2			Tr	1					C	2		
355-U1457C-47R-2-A 114/114-SED	630.74	630.74	5	90	5	C	C	R					C	Tr	1	Tr	1	Tr	1			Tr	1			C	2	C	2
355-U1457C-47R-2-A 80/80-SED	630.4	630.4	0	20	80	Tr	Tr		R				Tr															A	3
355-U1457C-47R-4-A 80/80-SED	633.4	633.4	50	15	35	C	C	C	C		R		R													C	2		
355-U1457C-48R-1-A 31/31-SED	638.11	638.11	30	60	10	C	C	C					C							Tr	1	Tr	1			C	2	C	2
355-U1457C-49R-1-A 72/72-SED	648.22	648.22	20	60	20	C	C	R			Tr		C			Tr	1			Tr	1	Tr	1			C	2	Tr	1
355-U1457C-49R-3-A 125/125-SED	651.75	651.75	65	25	10	C	C	C					C	Tr	1			Tr	1			Tr	1			C	2	C	2
355-U1457C-49R-3-A 140/140-SED	651.9	651.9	40	35	25	C	R	R		R			C	Tr	1			Tr	1	Tr	1	Tr	1			A	3		
355-U1457C-49R-3-A 81/81-SED	651.31	651.31	5	25	70	R	R	R					R					Tr	1									C	2
355-U1457C-49R-4-A 93/93-SED	652.93	652.93	10	60	30	C	C	R		R			C	Tr	1	Tr	1	Tr	1							A	3	C	2
355-U1457C-49R-5-A 61/61-SED	654.11	654.11	30	60	10	C	R	C		C			C			Tr	1	Tr	1							A	3		
355-U1457C-49R-5-A 88/88-SED	654.38	654.38	10	80	10	C	C	C					R					Tr	1	Tr	1					C	2	C	2
355-U1457C-50R-1-A 21/21-SED	657.41	657.41	0	15	85	C	R	Tr	C				Tr					Tr	1										
355-U1457C-50R-1-A 5/5-SED	657.25	657.25	0	10	90	R	Tr	Tr					Tr													Tr	1		
355-U1457C-50R-1-A 56/56-SED	657.76	657.76	0	5	95			Tr					Tr					Tr	1							Tr	1		
355-U1457C-50R-3-A 72/72-SED	660.88	660.88	0	5	95			Tr	R																				
355-U1457C-51R-4-A 117/117-SED	672.57	672.57	10	70	20	A	C	R		C			C			Tr	1			Tr	1					C	2		
355-U1457C-51R-4-A 59/59-SED	671.99	671.99	20	65	15	A	C	C					R			Tr	1	Tr	1							C	2	Tr	1
355-U1457C-51R-4-A 8/8-SED	671.48	671.48	15	45	40	C	R	C		R			R					Tr	1			Tr	1			C	2	Tr	1
355-U1457C-52R-1-A 72/72-SED	677.32	677.32	15	65	20	C	R	C	R	Tr			R			Tr	1									C	2	C	2
355-U1457C-52R-2-A 10/10-SED	678.11	678.11	20	50	30	C	C	C	R	R			R	Tr	1			C	2							C	2	Tr	1
355-U1457C-52R-2-A 126/126-SED	679.27	679.27	50	35	15	A	C	R		C			C			Tr	1									A	3		
355-U1457C-53R-1-A 137/137-SED	687.67	687.67	50	40	10	A	C	R	R	C			C			Tr	1	Tr	1	Tr	1			Tr	1	C	2	Tr	1
355-U1457C-53R-2-A 68/68-SED	688.38	688.38	30	55	15	A	C	R	R	C			C	Tr	1	Tr	1	Tr	1	Tr	1	Tr	1	Tr	1	A	3		
355-U1457C-53R-3-A 21/21-SED	689.37	689.37	0	5	95			Tr																					
355-U1457C-54R-1-A 63/63-SED	696.63	696.63	25	60	15	A	C	R	Tr	C			C			Tr	1	Tr	1	Tr	1	C	2			A	3	Tr	1
355-U1457C-54R-2-A 8/8-SED	697.12	697.12	15	50	35	C	C	R	R	R			R			Tr	1									C	2		
355-U1457C-55R-1-A 104/104-SED	706.74	706.74	0	5	95	Tr																							
355-U1457C-55R-1-A 108/108-SED	706.78	706.78	0	20	80								Tr			Tr	1	Tr	1										
355-U1457C-55R-1-A 114/114-SED	706.84	706.84	10	85	5	A	C	C					R							Tr	1			Tr	1	C	2		
355-U1457C-55R-1-A 116/116-SED	706.86	706.86	35	55	10	C	C	C					R													C	2	Tr	1
355-U1457C-55R-1-A 122/122-SED	706.92	706.92	75	20	5	A	C	R		C			C									Tr	1			A	3	C	2
355-U1457C-55R-1-A 13/13-SED	705.83	705.83	25	55	20	C	C	R	R	R			R											Tr	1	C	2	C	2
355-U1457C-55R-1-A 83/83-SED	706.53	706.53	70	20	10	A	C	R		C			C	Tr	1	Tr	1					Tr	1			A	3	Tr	1
355-U1457C-55R-1-A 96/96-SED	706.66	706.66	0	10	90	Tr		C																					
355-U1457C-56R-1-A 101/101-SED	716.41	716.41	25	65	10	A	A	C					C	Tr	1	Tr	1	Tr	1	Tr	1	Tr	1			C	2	C	2
355-U1457C-56R-1-A 44/44-SED	715.84	715.84	5	25	70	R	R	R	C																				
355-U1457C-57R-1-A 67/67-SED	725.77	725.77	55	30	15	C	C	C					C	Tr	1			Tr	1			Tr	1			C	2	C	2
355-U1457C-57R-2-A 15/15-SED	726.75	726.75	0	10	90	R	R	Tr																					
355-U1457C-57R-2-A 38/38-SED	726.98	726.98	5	60	35	C	C	R					R							Tr	1					C	2		
355-U1457C-57R-2-A 67/67-SED	727.27	727.27	10	70	20	C	C	R					C			Tr	1	Tr	1			Tr	1			C	2	C	2
355-U1457C-58R-1-A 117/117-SED	735.97	735.97	60	30	10	C	C	R					C			Tr	1	Tr	1	Tr	1					C	2	C	2
355-U1457C-58R-2-A 61/61-SED	736.6	736.6	15	65	20	C	C	C					C	Tr	1	Tr	1									C	2	C	2
355-U1457C-58R-2-A 63/63-SED	736.62	736.62	0	20	80	R	R	R					Tr					Tr	1										
355-U1457C-59R-1-A 37/37-SED	744.87	744.87	15	70	15	A	C	C					R			Tr	1	Tr	1									C	2
355-U1457C-59R-1-A 85/85-SED	745.35	745.35	45	40	15	C	C	C					C			Tr	1			Tr	1					Tr	1	C	2
355-U1457C-60R-1-A 103/103-SED	755.23	755.23	70	20	10	C	C	C					C	Tr	1	Tr	1			Tr	1					C	2	Tr	1
355-U1457C-60R-3-A 65/65-SED	757.85	757.85	0	15	85	Tr	Tr	Tr																					
355-U1457C-60R-3-A 73/73-SED	757.93	757.93	15	50	35	C	C	R					C			Tr	1	Tr	1							Tr	1	C	2
355-U1457C-61R-1-A 92/92-SED	764.82	764.82	50	35	15	C	C	C					C			Tr	1					Tr	1			C	2	C	2
355-U1457C-61R-2-A 63/63-SED	766	766	0	15	85	Tr	Tr	Tr																					
355-U1457C-62R-1-SED	774.68	774.68	55	30	15	C	C	C					C			Tr	1			Tr	1					C	2	C	2
355-U1457C-63R-1-A 100/100-SED	784.3	784.3	65	25	15	C	C	C	R		R		C	Tr	1	Tr	1	Tr	1	Tr	1					C	2	C	2
355-U1457C-63R-3-A 13/13-SED	785.86	785.86	25	50	25	C	C	C			R		C			Tr	1			Tr	1	Tr	1			C	2	Tr	1
355-U1457C-64R-1-A 70/70-SED	793.7	793.7	30	50	20	A	C	R		C			C	Tr	1			Tr	1	Tr	1	Tr	1	C	2	A	3		
355-U1457C-64R-2-A 30/30-SED	794.8	794.8	10	60	30	C	R	C	C	R			R									Tr	1			C	2	Tr	1
355-U1457C-64R-3-A 96/96-SED	796.46	796.46	15	60	25	A	C	R		R			R					Tr	1							C	2		
355-U1457C-65R-1-A 74/74-SED	803.44	803.44	30	60	10	C	C	C	R				R			Tr	1					Tr	1			A	3		
355-U1457C-65R-3-A 90/90-SED	806.48	806.48	60	30	10	C	C	R		C			C	Tr	1			Tr	1	Tr	1			Tr	1	A	3		
355-U1457C-65R-4-A 30/30-SED	807.14	807.14	20	50	30	C	C	R		R			R					Tr	1	Tr	1					C	2	C	2
355-U1457C-65R-5-A 59/59-SED	808.8	808.8	0	5	95	R	Tr						Tr					Tr	1										
355-U1457C-66R-1-A 39/39-SED	812.79	812.79	60	30	10	A	C	R	C	C			C	Tr	1							Tr	1			A	3	C	2
355-U1457C-66R-3-A 18/18-SED	815.15	815.15	50	30	20	C	C	C		C			C	Tr	1	Tr	1	Tr	1	Tr	1			Tr	1	A	3	C	2
355-U1457C-67R-1-A 111/111-SED	823.21	823.21	60	30	10	C	C	R		C			C	Tr	1	Tr	1	Tr	1			Tr	1			A	3	Tr	1
355-U1457C-67R-2-A 5/5-SED	823.52	823.52	30	60	10	A	C	R	Tr	R			C	Tr	1	Tr	1	Tr	1	Tr	1	Tr	1			C	2		
355-U1457C-67R-4-A 19/19-SED	826.29	826.29	5	60	35			R					R	Tr	1					Tr	1	Tr	1			C	2	Tr	1
355-U1457C-68R-7-A 102/102-SED	839.93	839.93	50	40	10	C	C	R		A	Tr		R			Tr	1	Tr	1	Tr	1	Tr	1	Tr	1	C	2		
355-U1457C-68R-7-A 30/30-SED	839.21	839.21	0	30	70	Tr		C	C				Tr	Tr	1	Tr	1									C	2		
355-U1457C-68R-7-A 44/44-SED	839.35	839.35	0	40	60	C	R	C					R					Tr	1					Tr	1			C	2
355-U1457C-69R-1-A 67/67-SED	842.17	842.17	0	15	85	R	R	R	C				Tr			Tr	1	Tr	1									C	2

Sample	Glaucophane relative abundance	Glaucophane relative abundance rank	Augite relative abundance	Augite relative abundance rank	Other clinopyroxenes relative abundance	Other CPX relative abundance rank	Enstatite relative abundance	Enstatite relative abundance rank	Hypersthene relative abundance	Hypersthene relative abundance rank	Epidote relative abundance	Epidote relative abundance rank	Zoisite relative abundance	Zoisite relative abundance rank	Allanite relative abundance	Allanite relative abundance rank	Garnet relative abundance	Garnet relative abundance rank	Staurolite relative abundance	Staurolite relative abundance rank	Chloritoid relative abundance	Chloritoid relative abundance rank	Kyanite relative abundance	Kyanite relative abundance rank	Sillimanite relative abundance	Sillimanite relative abundance rank	Opaques relative abundance	Opaques relative abundance rank	Fe sulfides (opaques) abundance	Fe-oxides abundance	Ti-oxides abundance	Carbonate, detrital abundance	Carbonate, authigenic abundance	Foraminifers abundance	Calcareous nannofossil abundance	Pteropod fragments abundance	Other calcareous bioclasts abundance
355-U1457C-42R-1-A 118/118-SED					C	2					C	2					C	2												Tr							R
355-U1457C-42R-1-A 32/32-SED					Tr	1					C	2															Tr	1		Tr		C			R		C
355-U1457C-43R-1-A 52/52-SED																											Tr	1	C			C		Tr	Tr		R
355-U1457C-43R-1-A 67/67-SED																	C	2			Tr	1								Tr				Tr			
355-U1457C-43R-2-A 58/58-SED											C	2			Tr	1	Tr	1											R	R	Tr	R			Tr		C
355-U1457C-44R-1-A 62/62-SED																													A	Tr	R				R		C
355-U1457C-44R-2-A 30/30-SED											C	2					Tr	1									Tr	1		Tr		R			R		C
355-U1457C-44R-3-A 15/15-SED					Tr	1					C	2					Tr	1												Tr	Tr	Tr			R		C
355-U1457C-44R-3-A 48/48-SED											Tr	1															Tr	1	C	Tr	Tr				R		R
355-U1457C-44R-3-A 97/97-SED											Tr	1																		Tr		Tr	Tr	Tr	R		C
355-U1457C-44R-4-A 91/91-SED																																		Tr	D		C
355-U1457C-44R-4-A 99/99-SED																											Tr	1						C	D		R
355-U1457C-46R-1-A 70/70-SED					Tr	1																							R	Tr			R		D		
355-U1457C-46R-3-A 3/3-SED					Tr	1					C	2					Tr	1											R			Tr	Tr	Tr	C		
355-U1457C-47R-2-A 114/114-SED					Tr	1					C	2															A	3	D	Tr		Tr	R	Tr	Tr		
355-U1457C-47R-2-A 80/80-SED																													R	Tr			R		D		Tr
355-U1457C-47R-4-A 80/80-SED											Tr	1																	R	Tr		Tr	Tr	C	A		Tr
355-U1457C-48R-1-A 31/31-SED											C	2					Tr	1											R	Tr		Tr	R	Tr	R		
355-U1457C-49R-1-A 72/72-SED					Tr	1					C	2																	R			Tr	R	R	R		
355-U1457C-49R-3-A 125/125-SED											C	2					Tr	1											R	R		Tr	R		R		
355-U1457C-49R-3-A 140/140-SED											C	2											Tr	1			Tr	1				C		Tr			R
355-U1457C-49R-3-A 81/81-SED																													R	Tr			C		C		
355-U1457C-49R-4-A 93/93-SED											C	2																	Tr	Tr	Tr	C	Tr				
355-U1457C-49R-5-A 61/61-SED											C	2					Tr	1					Tr	1					Tr	Tr	Tr	C		Tr	R		C
355-U1457C-49R-5-A 88/88-SED											Tr	1																	C	Tr		Tr	C		R		
355-U1457C-50R-1-A 21/21-SED											Tr	1																	R	R					C		C
355-U1457C-50R-1-A 5/5-SED																											Tr	1	R	Tr							C
355-U1457C-50R-1-A 56/56-SED											Tr	1															Tr	1		Tr	Tr				D		C
355-U1457C-50R-3-A 72/72-SED																													C	C					A		
355-U1457C-51R-4-A 117/117-SED											A	3											Tr	1					R	Tr				Tr			C
355-U1457C-51R-4-A 59/59-SED											C	2			Tr	1	Tr	1														C		Tr			A
355-U1457C-51R-4-A 8/8-SED											Tr	1					Tr	1											Tr	Tr		C					R
355-U1457C-52R-1-A 72/72-SED											C	2					Tr	1											Tr	Tr		C					C
355-U1457C-52R-2-A 10/10-SED											A	3					Tr	1											Tr	Tr		R					R
355-U1457C-52R-2-A 126/126-SED											C	2									Tr	1							C			C					
355-U1457C-53R-1-A 137/137-SED					Tr	1					A	3					C	2									Tr	1	Tr	Tr		R					
355-U1457C-53R-2-A 68/68-SED											C	2															Tr	1	Tr	Tr	Tr	C					Tr
355-U1457C-53R-3-A 21/21-SED																														Tr				Tr	D		R
355-U1457C-54R-1-A 63/63-SED											C	2			Tr	1	Tr	1							Tr	1						C		Tr			R
355-U1457C-54R-2-A 8/8-SED											Tr	1											Tr	1					R	Tr	Tr	C			R		R
355-U1457C-55R-1-A 104/104-SED																													D						Tr		C
355-U1457C-55R-1-A 108/108-SED																											Tr	1	Tr		Tr						
355-U1457C-55R-1-A 114/114-SED											C	2					Tr	1									Tr	1	R	Tr	Tr						A
355-U1457C-55R-1-A 116/116-SED											C	2											Tr	1					C		Tr	C					
355-U1457C-55R-1-A 122/122-SED											C	2					Tr	1	Tr	1	Tr	1			Tr	1				Tr		R	Tr	Tr			
355-U1457C-55R-1-A 13/13-SED																													Tr	Tr		C					
355-U1457C-55R-1-A 83/83-SED	Tr	1									C	2					Tr	1					Tr	1						Tr	Tr	R					
355-U1457C-55R-1-A 96/96-SED																													R	Tr					R		A
355-U1457C-56R-1-A 101/101-SED											Tr	1					Tr	1											R	Tr		R	C		Tr		
355-U1457C-56R-1-A 44/44-SED																													R	Tr			C		C		
355-U1457C-57R-1-A 67/67-SED					Tr	1					C	2					Tr	1											R	Tr		R	R		Tr		
355-U1457C-57R-2-A 15/15-SED																													R	R			R		D		
355-U1457C-57R-2-A 38/38-SED											C	2					Tr	1											R	R		R	C		R		
355-U1457C-57R-2-A 67/67-SED											C	2																					C				
355-U1457C-58R-1-A 117/117-SED					Tr	1					C	2					Tr	1											R	R		R	R		Tr		
355-U1457C-58R-2-A 61/61-SED					Tr	1					C	2																	C	Tr		R	C		Tr		
355-U1457C-58R-2-A 63/63-SED											C	2																	R	R		Tr	C		C		
355-U1457C-59R-1-A 37/37-SED											C	2																	C	R		R	C	Tr	C		
355-U1457C-59R-1-A 85/85-SED											C	2					Tr	1											R	R		Tr	C	Tr	Tr		
355-U1457C-60R-1-A 103/103-SED					Tr	1					C	2					Tr	1											R	Tr		R	R		R		
355-U1457C-60R-3-A 65/65-SED																													R	Tr			C		D		
355-U1457C-60R-3-A 73/73-SED											C	2																	R	R		Tr	R	Tr	C		
355-U1457C-61R-1-A 92/92-SED											C	2					Tr	1											C	Tr		R	C		R		
355-U1457C-61R-2-A 63/63-SED																													R	Tr			C		D		
355-U1457C-62R-1-SED					Tr	1					C	2					Tr	1											R	Tr		C	R		Tr		
355-U1457C-63R-1-A 100/100-SED					Tr	1					C	2					Tr	1											C	R		R	Tr		C		
355-U1457C-63R-3-A 13/13-SED					Tr	1					Tr	1					Tr	1											R	Tr		R	R		C		
355-U1457C-64R-1-A 70/70-SED	Tr	1									C	2					Tr	1												Tr	Tr	C					R
355-U1457C-64R-2-A 30/30-SED											A	3																	R	R	Tr		A		Tr		R
355-U1457C-64R-3-A 96/96-SED											C	2					Tr	1											R	R	Tr	C	Tr				
355-U1457C-65R-1-A 74/74-SED					Tr	1					C	2					Tr	1												Tr		C					
355-U1457C-65R-3-A 90/90-SED											C	2					Tr	1	Tr	1	Tr	1			Tr	1	Tr	1	Tr	Tr	Tr	C					Tr
355-U1457C-65R-4-A 30/30-SED											C	2																		Tr							
355-U1457C-65R-5-A 59/59-SED																											Tr	1	R	Tr					Tr		C
355-U1457C-66R-1-A 39/39-SED											C	2											Tr	1						R		C		Tr			
355-U1457C-66R-3-A 18/18-SED											C	2							Tr	1	Tr	1								Tr	Tr	R			Tr		R
355-U1457C-67R-1-A 111/111-SED											C	2					C	2							Tr	1			Tr	R	R			Tr			R
355-U1457C-67R-2-A 5/5-SED											A	3					Tr	1									Tr	1	Tr	Tr	Tr	C	Tr		Tr		R
355-U1457C-67R-4-A 19/19-SED											C	2																		Tr	Tr			Tr	Tr		R
355-U1457C-68R-7-A 102/102-SED											C	2					Tr	1											R	Tr				R			R
355-U1457C-68R-7-A 30/30-SED											C	2																	R	R	R						C
355-U1457C-68R-7-A 44/44-SED											C	2															Tr	1	R		Tr		C		C		
355-U1457C-69R-1-A 67/67-SED											C	2																	C	R			R		R		Tr

Sample	Radiolarians abundance	Diatoms abundance	Sponge spicule fragments abundance	Other biosiliceous fossil fragments abundance	Fish debris abundance	Plant debris abundance	Organic matter abundance	Total of group estimates [%]	Lithology prefix	Principal lithology	Lithology suffix	Lithology major or minor	Lithology comment	Smear slide comment
355-U1457C-42R-1-A 118/118-SED									silty	sandstone		major lithology		Hematite; cpx trasformed in Hbl brown
355-U1457C-42R-1-A 32/32-SED						Tr	R		sandy	siltstone	with clay	minor lithology		Hematite
355-U1457C-43R-1-A 52/52-SED						C	C			siltstone		minor lithology		Plant debris up to 3 mm in size
355-U1457C-43R-1-A 67/67-SED						C	R		silty	sandstone	with clay	major lithology		
355-U1457C-43R-2-A 58/58-SED						Tr			silty	sandstone		major lithology		Anatase
355-U1457C-44R-1-A 62/62-SED						Tr	Tr			claystone		minor lithology		
355-U1457C-44R-2-A 30/30-SED										siltstone	with clay	minor lithology		
355-U1457C-44R-3-A 15/15-SED									sandy	siltstone	with clay	minor lithology		Skeletal cpx
355-U1457C-44R-3-A 48/48-SED							C			claystone		major lithology		Hematite
355-U1457C-44R-3-A 97/97-SED									silty	claystone		major lithology		
355-U1457C-44R-4-A 91/91-SED										nannofossil chalk		minor lithology		
355-U1457C-44R-4-A 99/99-SED									nannofossil rich	claystone	with sand	minor lithology		
355-U1457C-46R-1-A 70/70-SED									nannofossil rich	claystone		major lithology		
355-U1457C-46R-3-A 3/3-SED									silty	sandstone	with nannofossils	minor lithology		
355-U1457C-47R-2-A 114/114-SED			Tr							siltstone		minor lithology		
355-U1457C-47R-2-A 80/80-SED									nannofossil rich	claystone		major lithology		
355-U1457C-47R-4-A 80/80-SED									nannofossil rich	sandstone		minor lithology		
355-U1457C-48R-1-A 31/31-SED									sandy	siltstone		minor lithology		
355-U1457C-49R-1-A 72/72-SED									sandy	siltstone		minor lithology		
355-U1457C-49R-3-A 125/125-SED									silty	sandstone		minor lithology		
355-U1457C-49R-3-A 140/140-SED						Tr			silty	sandstone	with clay	minor lithology		
355-U1457C-49R-3-A 81/81-SED									silty	claystone	with nannofossils	minor lithology		
355-U1457C-49R-4-A 93/93-SED							Tr		clayey	siltstone		minor lithology		Hematite
355-U1457C-49R-5-A 61/61-SED						R	R		sandy	silt		minor lithology		
355-U1457C-49R-5-A 88/88-SED										siltstone		minor lithology		
355-U1457C-50R-1-A 21/21-SED						Tr	Tr			claystone	with silt	major lithology		
355-U1457C-50R-1-A 5/5-SED						R	R			claystone		minor lithology		Hematite
355-U1457C-50R-1-A 56/56-SED										nannofossil chalk		minor lithology		Hematite
355-U1457C-50R-3-A 72/72-SED						Tr			nannofossil rich	claystone		major lithology		
355-U1457C-51R-4-A 117/117-SED						C				siltstone	with clay	major lithology		
355-U1457C-51R-4-A 59/59-SED						R				siltstone	with sand	major lithology		
355-U1457C-51R-4-A 8/8-SED							Tr		clayey	siltstone		major lithology		Hematite
355-U1457C-52R-1-A 72/72-SED						Tr	R			siltstone	with clay	major lithology		Hematite
355-U1457C-52R-2-A 10/10-SED									clayey	siltstone	with sand	major lithology		Hematite
355-U1457C-52R-2-A 126/126-SED						C	R		silty	sandstone	with clay	major lithology		
355-U1457C-53R-1-A 137/137-SED						Tr			silty	sandstone		major lithology		Skeletal cpx
355-U1457C-53R-2-A 68/68-SED						Tr	Tr		sandy	siltstone		major lithology		
355-U1457C-53R-3-A 21/21-SED						Tr	Tr			nannofossil chalk		major lithology		Hematite
355-U1457C-54R-1-A 63/63-SED						Tr			sandy	siltstone		minor lithology		
355-U1457C-54R-2-A 8/8-SED						Tr	R		clayey	siltstone		minor lithology		
355-U1457C-55R-1-A 104/104-SED										claystone		minor lithology	black layer	Reticulofenestra in nannofossils
355-U1457C-55R-1-A 108/108-SED									calcareous rich	claystone		major lithology	green	
355-U1457C-55R-1-A 114/114-SED						Tr	Tr		calcareous rich	siltstone		minor lithology	well sorted pale gray in the top of a 10 cm thick turbidite	
355-U1457C-55R-1-A 116/116-SED							Tr		sandy	siltstone		minor lithology		
355-U1457C-55R-1-A 122/122-SED										sandstone		major lithology		
355-U1457C-55R-1-A 13/13-SED						Tr	Tr		sandy	siltstone	with clay	major lithology		Hematite
355-U1457C-55R-1-A 83/83-SED										sandstone		major lithology		
355-U1457C-55R-1-A 96/96-SED						Tr	Tr		calcareous rich	claystone		major lithology		
355-U1457C-56R-1-A 101/101-SED									sandy	siltstone		minor lithology		
355-U1457C-56R-1-A 44/44-SED										claystone	with nannofossils	major lithology		
355-U1457C-57R-1-A 67/67-SED									silty	sandstone		minor lithology		
355-U1457C-57R-2-A 15/15-SED									nannofossil rich	claystone		major lithology		
355-U1457C-57R-2-A 38/38-SED									clayey	siltstone		minor lithology		
355-U1457C-57R-2-A 67/67-SED										siltstone		minor lithology		
355-U1457C-58R-1-A 117/117-SED									silty	sandstone		minor lithology		
355-U1457C-58R-2-A 61/61-SED										siltstone	with clay	minor lithology		
355-U1457C-58R-2-A 63/63-SED									silty	claystone		major lithology		
355-U1457C-59R-1-A 37/37-SED									sandy	siltstone	with nannofossils	major lithology		
355-U1457C-59R-1-A 85/85-SED									silty	sandstone		minor lithology		
355-U1457C-60R-1-A 103/103-SED									silty	sandstone		major lithology		
355-U1457C-60R-3-A 65/65-SED									nannofossil rich	claystone		major lithology		
355-U1457C-60R-3-A 73/73-SED						Tr			clayey	siltstone	with nannofossils	minor lithology		
355-U1457C-61R-1-A 92/92-SED									silty	sandstone		major lithology		
355-U1457C-61R-2-A 63/63-SED						Tr			nannofossil rich	claystone		major lithology		
355-U1457C-62R-1-SED									silty	sand		major lithology		
355-U1457C-63R-1-A 100/100-SED									silty	sandstone	with nannofossils	major lithology		
355-U1457C-63R-3-A 13/13-SED									clayey	siltstone	with sand	minor lithology		
355-U1457C-64R-1-A 70/70-SED									sandy	siltstone		major lithology		Spinel brown reddish
355-U1457C-64R-2-A 30/30-SED						Tr	Tr		clayey	siltstone		major lithology		Hematite laminae abd aggregates
355-U1457C-64R-3-A 96/96-SED						R	R		clayey	siltstone		major lithology		Hematite
355-U1457C-65R-1-A 74/74-SED							R		sandy	siltstone		major lithology		Hematite
355-U1457C-65R-3-A 90/90-SED						Tr			silty	sandstone		major lithology		Hematite
355-U1457C-65R-4-A 30/30-SED							Tr		clayey	siltstone	with sand	major lithology		
355-U1457C-65R-5-A 59/59-SED							R			claystone		major lithology		Hematite
355-U1457C-66R-1-A 39/39-SED									silty	sandstone		minor lithology		Hematite
355-U1457C-66R-3-A 18/18-SED						R			silty	sandstone		minor lithology		Hematite
355-U1457C-67R-1-A 111/111-SED							Tr		silty	sandstone		major lithology		Fibrolitic sillimanite
355-U1457C-67R-2-A 5/5-SED									sandy	siltstone		major lithology		
355-U1457C-67R-4-A 19/19-SED						R	R		clayey	siltstone		major lithology		
355-U1457C-68R-7-A 102/102-SED						Tr			silty	sandstone		major lithology		
355-U1457C-68R-7-A 30/30-SED						Tr	R		silty	claystone		major lithology		
355-U1457C-68R-7-A 44/44-SED									silty	claystone		major lithology		
355-U1457C-69R-1-A 67/67-SED										claystone	with silt	major lithology		

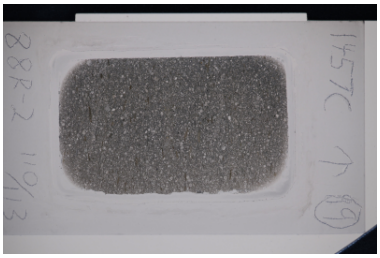
Sample	Top Depth [m]	Bottom Depth [m]	Sand texture [%]	Silt texture [%]	Clay texture [%]	Quartz abundance	Feldspar abundance	Mica abundance	Clay minerals abundance	Lithic grains abundance	Glauconite abundance	Vitric grains abundance	Heavy minerals abundance	Zircon relative abundance	Zircon relative abundance rank	Tourmaline relative abundance	Tourmaline relative abundance rank	Rutile relative abundance	Rutile relative abundance rank	Apatite relative abundance	Apatite relative abundance rank	Titanite relative abundance	Titanite relative abundance rank	Spinel relative abundance	Spinel relative abundance rank	Hornblende relative abundance	Hornblende relative abundance rank	Actinolite relative abundance	Actinolite relative abundance rank	Glaucophane relative abundance	Glaucophane relative abundance rank	Augite relative abundance	Augite relative abundance rank	Other clinopyroxenes relative abundance	Other CPX relative abundance rank	Enstatite relative abundance	Enstatite relative abundance rank	Hypersthene relative abundance	Hypersthene relative abundance rank	Epidote relative abundance	Epidote relative abundance rank	Zoisite relative abundance	Zoisite relative abundance rank	Allanite relative abundance	Allanite relative abundance rank	Garnet relative abundance	Garnet relative abundance rank	Staurolite relative abundance	Staurolite relative abundance rank	Chloritoid relative abundance	Chloritoid relative abundance rank	Kyanite relative abundance	Kyanite relative abundance rank	Sillimanite relative abundance	Sillimanite relative abundance rank	Opaques relative abundance	Opaques relative abundance rank	Fe sulfides (opaques) abundance	Fe-oxides abundance	Ti-oxides abundance	Carbonate, detrital abundance	Carbonate, authigenic abundance	Foraminifers abundance	Calcareous nannofossil abundance	Pteropod fragments abundance	Other calcareous bioclasts abundance	Radiolarians abundance	Diatoms abundance	Sponge spicule fragments abundance	Other biosiliceous fossil fragments abundance	Fish debris abundance	Plant debris abundance	Organic matter abundance	Total of group estimates [%]	Lithology prefix	Principal lithology	Lithology suffix	Lithology major or minor	Lithology comment	Smear slide comment
355-U1457C-69R-2-A 56/56-SED	843.38	843.38	0	30	70	R	R	R					R			Tr	1	Tr	1							C	2													Tr	1																	C	Tr		Tr	R		C		Tr									silty	claystone	with nannofossils	major lithology		
355-U1457C-69R-3-A 92/92-SED	845.15	845.15	15	75	10	C	C	C					C			Tr	1	Tr	1	Tr	1	Tr	1			C	2													Tr	1																	C	Tr		R	R	R	R										sandy	siltstone		minor lithology		
355-U1457C-70R-1-A 70/70-SED	851.9	851.9	35	50	15	C	C	R			R		C	Tr	1	Tr	1			Tr	1	Tr	1			C	2	C	2					Tr	1					C	2																	C	R		R	R	Tr	R		Tr									sandy	siltstone		minor lithology		
355-U1457C-70R-2-A 43/43-SED	853.13	853.13	0	10	90	Tr	Tr	Tr					Tr			Tr	1	Tr	1																																							C	Tr			R		R											claystone		major lithology		
355-U1457C-70R-3-A 100/100-SED	855.2	855.2	0	20	80	Tr	Tr	Tr					Tr			Tr	1	Tr	1			Tr	1					Tr	1																													R	Tr			R		A		Tr									nannofossil rich	claystone		minor lithology		
355-U1457C-71R-1-A 100/100-SED	861.9	861.9	0	25	75	R	R	R	C				Tr			Tr	1	Tr	1															Tr	1					Tr	1																	C	Tr		Tr	Tr		R		Tr									silty	claystone		major lithology		
355-U1457C-71R-2-A 118/118-SED	863.58	863.58	0	15	85	Tr	Tr	Tr																																																									Tr				R		D		Tr										nannofossil chalk		minor lithology		
355-U1457C-71R-2-A 53/53-SED	862.93	862.93	65	25	10	C	C	R			C		R							Tr	1					C	2																			Tr	1											R	Tr		R		R	Tr		R									silty	sandstone		minor lithology		
355-U1457C-71R-6-A 43/43-SED	868.83	868.83	10	30	60	C	C	R			R		R	Tr	1	Tr	1					C	2			Tr	1	Tr	1											C	2					Tr	1											R	Tr			C	Tr	C		Tr									silty	claystone	with nannofossils	minor lithology		
355-U1457C-72R-1-A 95/95-SED	871.55	871.55	10	60	25	C	C	C					C	Tr	1	C	2	Tr	1			Tr	1					C	2											C	2					Tr	1									Tr	1	R	Tr		Tr	C	Tr	R		Tr									clayey	siltstone		minor lithology		
355-U1457C-72R-3-A 22/22-SED	873.82	873.82	0	10	90	R	R	Tr																																																									C	Tr			R		C											claystone	with nannofossils	minor lithology		
355-U1457C-72R-3-A 76/76-SED	874.36	874.36	5	20	75	R	R	Tr	C				Tr			Tr	1	Tr	1																					C	2																	C	R			C	Tr	C											claystone	with nannofossils	major lithology		
355-U1457C-73R-4-A 62/62-SED	885.44	885.44	0	10	90	Tr	Tr	Tr																																																									R	Tr	Tr				Tr		R						Tr	Tr			claystone		major lithology		Hematite
355-U1457C-73R-4-A 81/81-SED	885.63	885.63	0	15	85			Tr																																																									C	Tr	Tr		Tr		C		C							Tr			claystone	with nannofossils	minor lithology		
355-U1457C-73R-4-A 97/97-SED	885.79	885.79	0	30	70	C	C	R					Tr			Tr	1									C	2																													Tr	1	R	Tr	R		R		Tr		Tr							R		silty	claystone		major lithology		Hematite 5 micron
355-U1457C-73R-5-A 126/126-SED	887.58	887.58	30	60	10	A	C	R		R			R			Tr	1									C	2							Tr	1					C	2					C	2											R			R		Tr			R						R	R		sandy	siltstone		minor lithology		Etched clinopyroxenes
355-U1457C-74R-3-A 38/38-SED	893.38	893.38	0	35	65	R	R	Tr					Tr			Tr	1			Tr	1																			Tr	1															Tr	1	Tr						R		R						Tr	R		silty	claystone		major lithology		
355-U1457C-74R-4-A 72/72-SED	895.22	895.22	0	35	65	R	R	Tr																																																									R	Tr			C		C		C									silty	claystone	with nannofossils	major lithology		
355-U1457C-74R-5-A 90/90-SED	896.9	896.9	0	10	90	Tr		Tr																																																									C	R	R				R		C						Tr	R			claystone		major lithology		Hematite
355-U1457C-75R-1-A 107/107-SED	900.77	900.77	5	55	40	C	R	C		A			R			Tr	1	Tr	1	Tr	1	C	2	C	2	Tr	1													Tr	1																					C		Tr	Tr							Tr			clayey	siltstone		minor lithology		Brown yellow spinel
355-U1457C-75R-3-A 34/34-SED	903.06	903.06	0	5	95	R		R	C																																																									R	R					C		C									claystone	with nannofossils	major lithology	Light green	
355-U1457C-75R-5-A 56/56-SED	906.28	906.28	0	10	90	Tr		Tr	C																																																									C	Tr			Tr	Tr	Tr								R	R			claystone	with silt	minor lithology		
355-U1457C-76R-3-A 20/20-SED	912.33	912.33	0	15	85			C																																																									R				R	R	Tr											claystone		minor lithology		Authigenic pseudoexagonal crystals
355-U1457C-76R-4-A 21/21-SED	913.64	913.64	0	15	85	Tr		C	C																																																									Tr						Tr		C							Tr			claystone		major lithology	Green	
355-U1457C-76R-4-A 37/37-SED	913.8	913.8	0	30	70	R		C					Tr											C	2															Tr	1																	Tr	Tr	Tr		Tr		C											silty	claystone		minor lithology	Green bluish	
355-U1457C-76R-4-A 46/46-SED	913.89	913.89	0	5	95				C																																																									R	R			R		C		C						Tr				claystone		major lithology	Dark green	Authigenic pseudoexagonal crystals
355-U1457C-77R-1-A 97/97-SED	920.07	920.07	0	10	90			Tr	C				Tr			Tr	1																																											Tr	1	Tr	Tr					R		R						Tr				claystone		major lithology	Dark green	
355-U1457C-77R-3-A 100/100-SED	922.68	922.68	0	5	95			R																																																										Tr	Tr				A		R										nannofossil rich	claystone		minor lithology	Green bluish	
355-U1457C-77R-3-A 44/44-SED	922.12	922.12	10	60	40	R		R					Tr															Tr	1											Tr	1															Tr	1	Tr				R	Tr	Tr		R						Tr			clayey	siltstone		minor lithology		Authigenic pseudoexagonal crystals
355-U1457C-78R-5-A 68/68-SED	934.91	934.91	2	35	60	C	C	R					Tr			Tr	1									Tr	1													Tr	1																	C	Tr			R		R											silty	claystone		minor lithology		
355-U1457C-78R-6-A 35/35-SED	936.03	936.03	0	10	90	R	R		C				Tr			Tr	1	Tr	1																																									R	Tr			R		C												claystone	with nannofossils	major lithology		
355-U1457C-79R-1-A 104/104-SED	939.54	939.54	0	15	85	R	R	Tr	C				Tr			Tr	1	Tr	1																																									R	Tr			Tr		C		Tr										claystone	with nannofossils	major lithology		
355-U1457C-79R-3-A 106/106-SED	942.51	942.51	0	10	90	R	R	Tr	C																																																									C				R		C												claystone	with nannofossils	minor lithology		
355-U1457C-79R-5-A 137/137-SED	945.82	945.82	20	50	30	C	C	R					Tr			Tr	1																																													C	Tr			R	R	C		Tr									clayey	siltstone	with nannofossils	minor lithology		
355-U1457C-80R-1-A 32/32-SED	948.52	948.52	0	15	85	Tr	Tr	Tr	C				Tr													Tr	1													Tr	1																	C	R			C		C		Tr										claystone	with nannofossils	major lithology		
355-U1457C-80R-3-A 99/99-SED	952.19	952.19	0	15	85	Tr	Tr	Tr	R				Tr					Tr	1																					Tr	1																	C	Tr			R		R												claystone	with nannofossils	minor lithology		
355-U1457C-81R-1-A 115/115-SED	959.05	959.05	0	15	85	Tr	Tr	Tr	C				Tr			Tr	1	Tr	1																					Tr	1															Tr	1	C	Tr			R		C		Tr										claystone	with nannofossils	major lithology		
355-U1457C-81R-3-A 27/27-SED	961.17	961.17	0	20	80	Tr	Tr	Tr	C																																																									C	Tr			C														claystone	with silt	minor lithology		
355-U1457C-81R-3-A 67/67-SED	961.57	961.57	10	65	25	C	C	R					Tr			Tr	1									Tr	1													Tr	1					Tr	1											C			Tr	C	Tr	R		Tr									clayey	siltstone		minor lithology		
355-U1457C-82R-3-A 26/26-SED	970.86	970.86	0	5	95			R	C																																																									R		Tr				Tr		Tr						R				claystone		major lithology		
355-U1457C-82R-3-A 78/78-SED	971.38	971.38	30	60	10	A	C	R		Tr			R	Tr	1	Tr	1							C	2	C	2													Tr	1					Tr	1															A	Tr										Tr		sandy	siltstone	with calcite	minor lithology		
355-U1457C-82R-5-A 54/54-SED	973.65	973.65	0	15	85	R		R																																																											R		Tr						Tr						R				claystone	with silt	major lithology		
355-U1457C-82R-5-A 60/60-SED	973.71	973.71	0	15	85	R	Tr	Tr																																																											R	Tr					Tr		C						Tr				claystone	with sand	major lithology		Hem
355-U1457C-83R-1-A 104/104-SED	978.34	978.34	0	10	90	Tr		R																																																											Tr	Tr		C		R													claystone		minor lithology		Authigenic pseudoexagonal crystals, calcite?
355-U1457C-83R-3-A 56/56-SED	980.85	980.85	0	20	80	C	Tr	Tr																																																											Tr	Tr			Tr											Tr				claystone	with silt	major lithology		
355-U1457C-83R-4-A 89/89-SED	982.68	982.68	0	15	85	Tr		R	C																																																									R	R					Tr									Tr			claystone		major lithology		
355-U1457C-83R-6-A 100/100-SED	985.84	985.84	0	15	85			R					Tr																											Tr	1															Tr	1		Tr					R		C							Tr			claystone		major lithology		
355-U1457C-84R-4-A 30/30-SED	991.8	991.8	0	15	85			R	R																																																									Tr						C		C							R			claystone		major lithology		
355-U1457C-84R-6-A 126/126-SED	995.76	995.76	0	5	95	Tr		Tr																																																											Tr	R	Tr						R							R			claystone		major lithology		
355-U1457C-84R-6-A 82/82-SED	995.32	995.32	5	55	40	C	R	C					Tr	Tr	1																											C	2																	C	Tr	Tr				Tr		R						Tr				clayey	siltstone		minor lithology		
355-U1457C-85R-1-A 26/26-SED	996.96	996.96	50	30	20	C	C	C		R			R			Tr	1							Tr	1															C	2					Tr	1											C	Tr		R			Tr		C									silty	sandstone	with clay	minor lithology		
355-U1457C-85R-3-A 35/35-SED	999.63	999.63	0	70	30	C	R	C	C				Tr									Tr	1																	Tr	1																	R	C	C						C									clayey	siltstone		major lithology		
355-U1457C-85R-3-A 54/54-SED	999.82	999.82	0	15	85	Tr		R					Tr																											Tr	1															Tr	1	Tr	Tr	R				R		R										claystone		minor lithology		
355-U1457C-86R-1-A 5/5-SED	1006.15	1006.15	0	60	40	R	Tr	R	C																																																									C	R					Tr		C									clayey	siltstone		minor lithology		Hem
355-U1457C-86R-1-A 85/85-SED	1006.95	1006.95	80	20	0			Tr																																																											Tr	Tr		A	D	R														calcarenite		major lithology		
355-U1457C-86R-2-A 29/29-SED	1007.89	1007.89	80	20	0			Tr																																																											Tr			A	D	R														calcarenite		major lithology		
355-U1457C-88R-2-A 100/100-SED	1018.55	1018.55	35	20	45	Tr	Tr	Tr																																																											Tr				C	R	A		C									calcarenite		major lithology		
355-U1457C-88R-7-A 89/89-SED	1025.56	1025.56	35	15	50	Tr	Tr																																																																R	R	D		R									calcarenite		major lithology		
355-U1457C-89R-1-A 56/56-SED	1025.96	1025.96	15	20	65	Tr	Tr																																																																R		D		C										nannofossil chalk		minor lithology		
355-U1457C-89R-2-A 103/103-SED	1027.75	1027.75	15	25	60	Tr	Tr	Tr																																																											R	Tr			C		D		C									nannofossil rich	claystone	with carbonates	minor lithology		
355-U1457C-89R-3-A 113/113-SED	1029.32	1029.32	15	15	70	Tr	Tr																																																																R		D		Tr									nannofossil rich	claystone		minor lithology		
355-U1457C-89R-4-A 48/48-SED	1029.97	1029.97	30	20	50																																																																				C	C	D		C										limestone		major lithology		
355-U1457C-92R-1-A 108/108-SED	1053.78	1053.78	60	30	10				A			C	Tr																																											Tr	1					D	Tr			Tr									silty	sandstone		minor lithology		
355-U1457C-92R-1-A 50/50-SED	1053.2	1053.2	80	15	5																																																																				D				A										calcarenite	with calcite	major lithology		
355-U1457C-92R-1-A 95/95-SED	1053.65	1053.65	80	15	5				R																																																															D													calcarenite	with calcite	major lithology		
355-U1457C-93R-1-A 102/102-SED	1063.22	1063.22	0	5	95				D																																																									Tr					R	R		Tr										claystone		major lithology		
355-U1457C-93R-1-A 124/124-SED	1063.44	1063.44	70	20	10		R	Tr	C			A																																																												R														volcaniclastic rich	sandstone		minor lithology		
355-U1457C-93R-2-A 128/128-SED	1064.98	1064.98	0	80	20			Tr	A				Tr																																											Tr	1	R				D															siltstone	with calcite	minor lithology	Hydrotermal circulation of fluids and precipitation of carbonates and ZnS	Sphalerite common
355-U1457C-93R-2-A 2/2-SED	1063.72	1063.72	0	80	20			Tr	A																																																									R	Tr				Tr	C		R									volcaniclastic rich	siltstone	with clay	major lithology		
355-U1457C-94R-1-A 112/112-SED	1072.62	1072.62	80	20	0				A			D																																																													R									volcaniclastic rich	sandstone		minor lithology		
355-U1457C-94R-1-A 53/53-SED	1072.03	1072.03	0	80	20		Tr	Tr																																																											R				D															siltstone	with calcite	minor lithology		
355-U1457C-94R-2-A 52/52-SED	1073.32	1073.32	25	75	0		Tr					D																																																					Tr																	volcaniclastic rich	siltstone	with sand	major lithology		
355-U1457C-95R-1-A 44/44-SED	1081.24	1081.24	15	80	5																																																																	R				D															siltstone	with calcite	minor lithology		
355-U1457C-95R-1-A 72/72-SED	1081.52	1081.52	80	20	0							D																																																					Tr																	volcaniclastic rich	sandstone		major lithology		
355-U1457C-95R-2-A 126/126-SED	1083.37	1083.37	0	5	95				C																																																									Tr				D															claystone	with calcite	minor lithology		
355-U1457C-95R-2-A 48/48-SED	1082.59	1082.59	10	90	0			Tr				D																																																											C														volcaniclastic rich	siltstone		major lithology		
355-U1457C-95R-3-A 26/26-SED	1083.85	1083.85	0	5	95		R		D			R																																																			R																		claystone		major lithology		

THIN SECTION LABEL ID **355-U1457C-88R-2-W 110/113-TSB-TS_09** Thin section no.: 9

Unit/Subunit: Observer: Ando

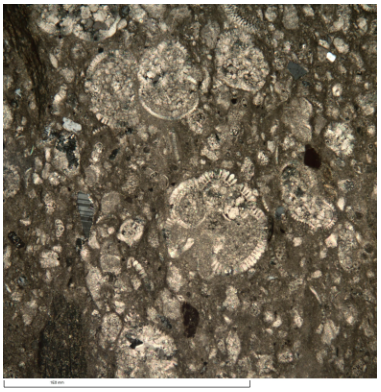
Thin section summary: Calcarenite with foraminifers. Medium coarse calcarenite with calcilutitic matrix. Rare detrital minerals and rock fragments. Trace of authigenic crustals of calcite.

Plane-polarized:



Cross-polarized:

Representative photomicrograph



SEDIMENT/SEDIMENTARY ROCK

Lithology: calcarenite with foraminifers

Texture	Sand	Silt	Clay
Percent (%)	80	15	5

Constituent	Siliciclastic	Ash	Detrital carbonate	Biogenic carbonate	Biogenic silica
Percent (%)	10		60	40	0

Mineral abundance names and grain features

Volcanic glass	Lithic grains	Quartz	Feldspar	Micas	Clay minerals	Heavy minerals	Calcite, authigenic	Sulfides, authigenic
	R	R	Tr	Tr	Tr	Tr	Tr	Tr

Mineral grain MAX size (mm)	Mineral grain roundness	Mineral grain corrosion feature comment
100	very angular	Incipient corrosion features in some detrital feldspars

Fossil abundance and details

Foraminifers	Calcareous nannofossils	Calcareous bioclasts
A		C

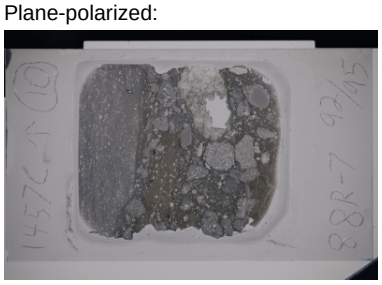
Biogenic grain MAX size (mm)	Biogenic grain roundness	Biogenic grain corrosion feature comment
350	sub-rounded	Slight corrosion features

THIN SECTION LABEL ID **355-U1457C-88R-7-W 92/95-TSB-TS_10** Thin section no.: 10

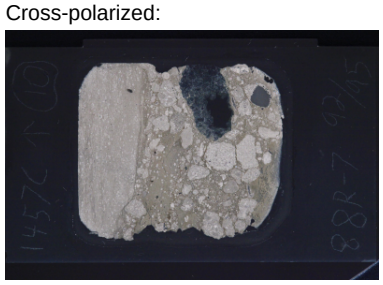
Unit/Subunit: Observer: Ando

Thin section summary: Breccia with foraminifers. Fine breccia with calcilutite matrix. Very rare detrital minerals and rock fragments. Authigenic calcite is rare.

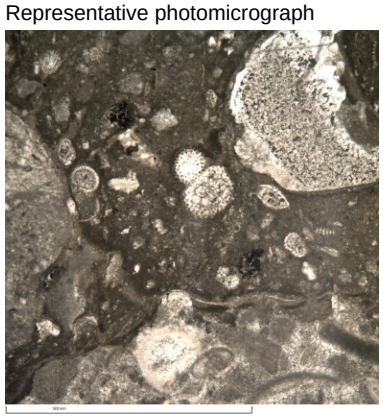
Plane-polarized:



Cross-polarized:



Representative photomicrograph



SEDIMENT/SEDIMENTARY ROCK

Lithology: calcareous rich breccia with foraminifers

Texture	Sand	Silt	Clay
Percent (%)	30	15	5

Constituent	Siliciclastic	Ash	Detrital carbonate	Biogenic carbonate	Biogenic silica
Percent (%)	5		80	20	0

Mineral abundance names and grain features

Volcanic glass	Lithic grains	Quartz	Feldspar	Micas	Clay minerals	Heavy minerals	Calcite, authigenic	Sulfides, authigenic
A	Tr	Tr	Tr		Tr		R	Tr

Mineral grain MAX size (mm)	Mineral grain roundness	Mineral grain corrosion feature comment
300	very angular	absent

Fossil abundance and details

Foraminifers	Calcareous nannofossils	Calcareous bioclasts
C		C

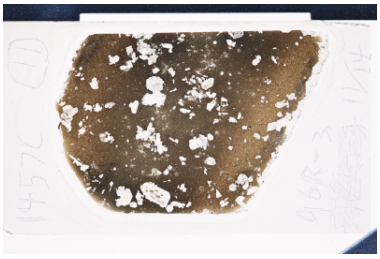
Biogenic grain MAX size (mm)	Biogenic grain roundness	Biogenic grain corrosion feature comment
1000	subangular	Slight corrosion features

THIN SECTION LABEL ID **355-U1457C-96R-3-W 11/14-TSB-TS_11** Thin section no.: 11

Unit/Subunit: Observer: Radhakrishna

Thin section summary: The rock is olivine plagioclase phyric basalt. Clinopyroxene is rarely seen as phenocryst phase. Other than phenocrysts, the section contains glassy groundmass. The glass may have some alteration to brownish groundmass. Texture is described as holohyaline. Plagioclase phenocrysts are generally fresh. Olivine appear to have serpentinised occasionally. Fe-Ti oxides are seen as accessory phase. Vesicles are rare and the rock is described as non-vesicular.

Plane-polarized:



Cross-polarized:

PRIMARY (IGNEOUS) MINERALOGY

LITHOLOGY: olivine-plagioclase phyric basalt

Texture 1:	holohyaline / glassy	Domain relative abundance:	100
Avg. grain size:	cryptocrystalline	Grain size distribution:	bimodel

Phenocrysts	(%) original	(%) present	(%) replaced	size MIN (mm)	size MAX (mm)	size MODE (mm)	Shape	Habit	Comments
Olivine	3	2	1	0.2	1.5	0.3	subhedral	equent to prismatic	
Plagioclase	7	7	0	0.1	3	0.4	euhedral	tabular	
Clinopyroxene	<1	<1	0	0.2	0.3		subhedral	Elongate	

Vesicle abundance	% empty	% filled	MIN size (mm)	MAX size (mm)	AVG size (mm)	Vesicle shape	Vesicle distribution
<1 (Non vesicular)							

SECONDARY (ALTERATION) MINERALOGY

General phenocryst comments:

Phenocryst	Olivine	Orthopyroxene	Clinopyroxene	Plagioclase
Total original [%]	3		<1	7
Total present [%]	2		<1	7
Total replaced [%]	1		0	0

GROUNDMASS total original (%):

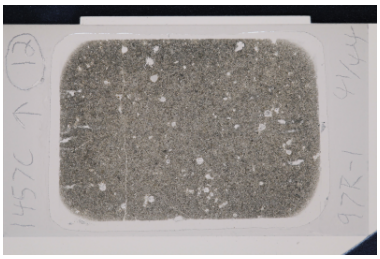
Groundmass phases	% original	% present	% replaced	MIN size (mm)	MAX size (mm)	Average size (mm)	Shape	Habit	Comments
Mesostasis	88								

THIN SECTION LABEL ID **355-U1457C-97R-1-W 41/44-TSB-TS_12** Thin section no.: 12

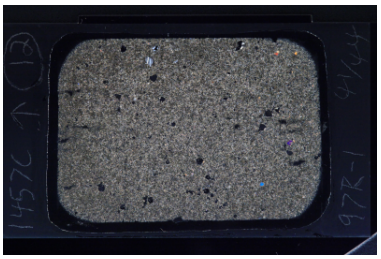
Unit/Subunit: Observer: Radhakrishna

Thin section summary: The rock is plagioclase phyric basalt. Plagioclase phanocrysts are about 1%. Subequant clinopyroxene is a rare phenocryst phase. The section display intersertal texture. The ground mass contains plagioclase laths and mesostasis. The plagioclase is generally seen fresh. Alteration of groundmass cannot be identified because of its microcrystalline grain size. Fe-Ti oxides are seen as accessory phase. Vesicles are rarely seen and they are spherical to elongated in shape.

Plane-polarized:



Cross-polarized:



PRIMARY (IGNEOUS) MINERALOGY

LITHOLOGY: plagioclase phyric basalt

Texture 1:	intersertal	Domain relative abundance:	100
Avg. grain size:	microcrystalline	Grain size distribution:	bimodel

Phenocrysts	(%) original	(%) present	(%) replaced	size MIN (mm)	size MAX (mm)	size MODE (mm)	Shape	Habit	Comments
Plagioclase	1	1	0	1	1.5	0.3	subhedral	tabular	
Clinopyroxene	rare			0.15	0.4		subhedral	Equent	

Vesicle abundance	% empty	% filled	MIN size (mm)	MAX size (mm)	AVG size (mm)	Vesicle shape	Vesicle distribution
2 (Sparsely vesicular)	100	0	0.1	1	0.4	spherical	

SECONDARY (ALTERATION) MINERALOGY

General phenocryst comments:

Phenocryst	Olivine	Orthopyroxene	Clinopyroxene	Plagioclase
Total original [%]			rare	1
Total present [%]				1
Total replaced [%]				0

GROUNDMASS total original (%):

Groundmass phases	% original	% present	% replaced	MIN size (mm)	MAX size (mm)	Average size (mm)	Shape	Habit	Comments
Plagioclase		45					subhedral	laths	
Mesostasis	50								

THIN SECTION LABEL ID **355-U1457C-97R-1-W 128/131-TSB-TS_13** Thin section no.: 13

Unit/Subunit: Observer: Radhakrishna

Thin section summary: The rock is clinopyroxene plagioclase phyric basalt. It contains 2% plagioclase phenocrysts. Clinopyroxene phenocrysts are about 1%. Anhedral olivine is a rare phenocryst phase. Ground mass contains about 35% plagioclase as lath shaped. Plagioclase is mostly fresh with sharp grain boundaries. Fe-Ti oxides are seen as accessory phase.The rock shows intersertal texture. Alteration, if any, restricted to groundmass and is difficult to observe due to microcrystalline nature. The rock is considered moderately altered. Vesicles/veins are almost absent.

Plane-polarized:

Cross-polarized:

PRIMARY (IGNEOUS) MINERALOGY

LITHOLOGY: clinopyroxene-plagioclase phyric basalt

Texture 1:	intersertal	Domain relative abundance:	100
Avg. grain size:	microcrystalline	Grain size distribution:	bimodel

Phenocrysts	(%) original	(%) present	(%) replaced	size MIN (mm)	size MAX (mm)	size MODE (mm)	Shape	Habit	Comments
Olivine	Rare		0	0.2	1	0.4	subhedral	elongate	
Plagioclase	2	2	0	0.4	1	0.45	subhedral	tabular	
Clinopyroxene	1	1	0	0.2	1		subhedral	Equent to elongate	

Vesicle abundance	% empty	% filled	MIN size (mm)	MAX size (mm)	AVG size (mm)	Vesicle shape	Vesicle distribution
<1 (Non vesicular)							

SECONDARY (ALTERATION) MINERALOGY

General phenocryst comments:

Phenocryst	Olivine	Orthopyroxene	Clinopyroxene	Plagioclase
Total original [%]	Rare		1	2
Total present [%]			1	2
Total replaced [%]	0		0	0

GROUNDMASS total original (%):

Groundmass phases	% original	% present	% replaced	MIN size (mm)	MAX size (mm)	Average size (mm)	Shape	Habit	Comments
Plagioclase		35					subhedral	laths	
Mesostasis	60								

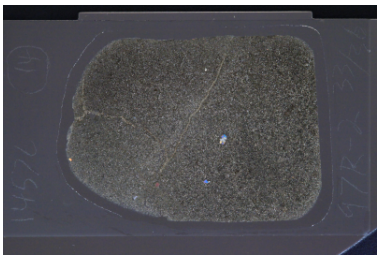
THIN SECTION LABEL ID **355-U1457C-97R-2-W 33/36-TSB-TS_14** Thin section no.: 14

Unit/Subunit: Observer: Radhakrishna

Thin section summary: The rock is aphyric basalt. Clinopyroxene and olivine occur seldom as phenocrysts. Plagioclase laths may comprise 35% of the groundmass and the rock is classified as intersertal in texture. The phenocryst phase is mostly unaltered. Fe-Ti oxides are seen as accessory phase. A thin micro-fracture of 0.5 mm is seen across the section. Although alteration is not clearly identified, a red colouration is seen in a zone of 1 mm across the section. The rock is non-vesicular

Plane-polarized:

Cross-polarized:



PRIMARY (IGNEOUS) MINERALOGY

LITHOLOGY: aphyric basalt

Texture 1:	intersertal	Domain relative abundance:	100
Avg. grain size:	microcrystalline	Grain size distribution:	bimodel

Phenocrysts	(%) original	(%) present	(%) replaced	size MIN (mm)	size MAX (mm)	size MODE (mm)	Shape	Habit	Comments
Olivine	Trace			0.4	0.4	0.4	anhedral	subequant	
Clinopyroxene	rare			0.15	0.4		subhedral	Subquent to elongate	

Vesicle abundance	% empty	% filled	MIN size (mm)	MAX size (mm)	AVG size (mm)	Vesicle shape	Vesicle distribution
<1 (Non vesicular)							

SECONDARY (ALTERATION) MINERALOGY

General phenocryst comments:

Phenocryst	Olivine	Orthopyroxene	Clinopyroxene	Plagioclase
Total original [%]	Trace		rare	

GROUNDMASS total original (%):

Groundmass phases	% original	% present	% replaced	MIN size (mm)	MAX size (mm)	Average size (mm)	Shape	Habit	Comments
Plagioclase		35					subhedral	laths	
Mesostasis	65								

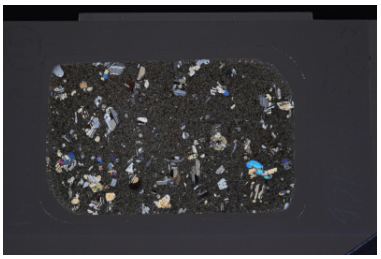
THIN SECTION LABEL ID **355-U1457C-97R-2-W 80/83-TSB-TS_15** Thin section no.: 15

Unit/Subunit: Observer: Radhakrishna

Thin section summary: The rock is clinopyroxene olivine plagioclase phyric basalt. Plagioclase phenocrysts are seen in abundance (~12%). Olivine and clinopyroxene phenocrysts are less than 1%. Fe-Ti oxides are seen as accessory phase.The groundmass is cryptocrystalline and texture is intersertal. Plagioclase laths are about 30%. Plagioclases are nearly fresh with sharp grain boundaries. Groundmass alteration is not clear. A few vesicles are seen in spherical shape and mostly filled with calcite/carbonate. However, by their abundance, the rock is non-vesicular.

Plane-polarized:

Cross-polarized:



PRIMARY (IGNEOUS) MINERALOGY

LITHOLOGY: clinopyroxene-olivine-plagioclase phyric basalt

Texture 1:	intersertal	Domain relative abundance:	100
Avg. grain size:	cryptocrystalline	Grain size distribution:	bimodel

Phenocrysts	(%) original	(%) present	(%) replaced	size MIN (mm)	size MAX (mm)	size MODE (mm)	Shape	Habit	Comments
Olivine	1	1	0	0.6	2.5	0.25	subhedral	elongate	
Plagioclase	12	12	0	0.2	2.6	0.8	euhedral	tabular	
Clinopyroxene	1	1	0	0.1	1		subhedral	Elongate	

Vesicle abundance	% empty	% filled	MIN size (mm)	MAX size (mm)	AVG size (mm)	Vesicle shape	Vesicle distribution
2 (Sparcely Vesicular)	0	100	0.1	0.25	0.2	spherical	

SECONDARY (ALTERATION) MINERALOGY

General phenocryst comments:

Phenocryst	Olivine	Orthopyroxene	Clinopyroxene	Plagioclase
Total original [%]	1		1	12
Total present [%]	1		1	12
Total replaced [%]	0		0	0

GROUNDMASS total original (%):

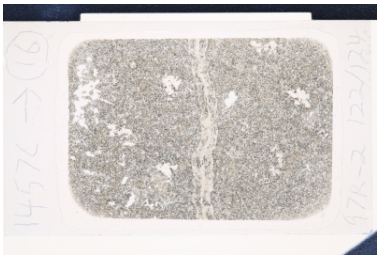
Groundmass phases	% original	% present	% replaced	MIN size (mm)	MAX size (mm)	Average size (mm)	Shape	Habit	Comments
Plagioclase		30					subhedral	laths	
Mesostasis	55								

THIN SECTION LABEL ID **355-U1457C-97R-2-W 122/124-TSB-TS_16** Thin section no.: 16

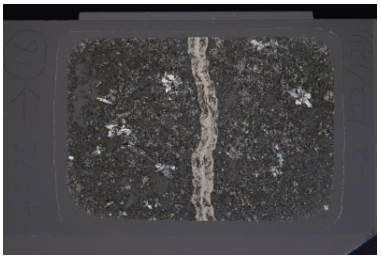
Unit/Subunit: Observer: Radhakrishna

Thin section summary: The rock is olivine plagioclase phyric basalt. Plagioclase phenocryst is subhedral and is about 3%. Olivine is anhedral and subequent. The rock is intersertal in texture. Groundmass contains about 1% clinopyroxene as microphenocrysts. Plagioclase laths comprises of 25%. Phenocrysts exhibit sharp grain boundaries and are fresh. Groundmass alteration is difficult to identify. Fe-Ti oxides are seen as accessory phase. A vein of 1-1.2 mm wide cuts across the section. Vein fillings are calcite/carbonate. The rock contains high content of vesicles and may be classified as highly vesicular basalt. Zeolite appears to be a vesicle-filling mineral.

Plane-polarized:



Cross-polarized:



PRIMARY (IGNEOUS) MINERALOGY

LITHOLOGY: olivine-plagioclase phyric basalt

Texture 1:	intersertal	Domain relative abundance:	100
Avg. grain size:	microcrystalline	Grain size distribution:	bimodel

Phenocrysts	(%) original	(%) present	(%) replaced	size MIN (mm)	size MAX (mm)	size MODE (mm)	Shape	Habit	Comments
Olivine	1	1	0	0.1	0.2	0.15	anhedral	subequant	
Plagioclase	3	3	0	0.2	0.9	0.45	subhedral	tabular	
Clinopyroxene	trace			0.15	0.2				

Vesicle abundance	% empty	% filled	MIN size (mm)	MAX size (mm)	AVG size (mm)	Vesicle shape	Vesicle distribution
20 (Highly vesicular)	20	80	0.4	16	0.6	spherical	

SECONDARY (ALTERATION) MINERALOGY

General phenocryst comments:

Phenocryst	Olivine	Orthopyroxene	Clinopyroxene	Plagioclase
Total original [%]	1		trace	3
Total present [%]	1			3
Total replaced [%]	0			0

GROUNDMASS total original (%):

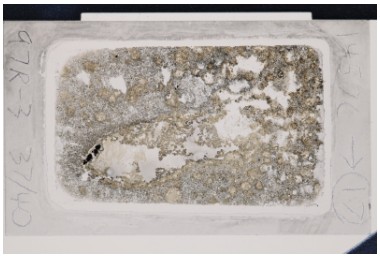
Groundmass phases	% original	% present	% replaced	MIN size (mm)	MAX size (mm)	Average size (mm)	Shape	Habit	Comments
Plagioclase		25					subhedral	laths	
Mesostasis	55								

THIN SECTION LABEL ID **355-U1457C-97R-3-W 37/40-TSB-TS_17** Thin section no.: 17

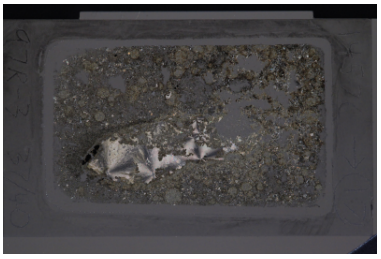
Unit/Subunit: Observer: Radhakrishna

Thin section summary: The rock is aphyric vesicular basalt. The rock has only minor clinopyroxene as microphenocrysts. In the groundmass, plagioclase laths comprise about 15% and appear to have some alteration to clay minerals along twin planes. Fe-Ti oxides are seen as accessory phase. The rock is highly vesicular. Vesicles are both spherical and elongated; also filled and unfilled. Zeolite or calcite constitute the vesicle fillings.

Plane-polarized:



Cross-polarized:



PRIMARY (IGNEOUS) MINERALOGY

LITHOLOGY: aphyric basalt

Texture 1:	intersertal	Domain relative abundance:	100
Avg. grain size:	microcrystalline	Grain size distribution:	bimodel

Vesicle abundance	% empty	% filled	MIN size (mm)	MAX size (mm)	AVG size (mm)	Vesicle shape	Vesicle distribution
40 (Highly vesicular)	20	80	0.1	2.5	0.8	spherical	

GROUNDMASS total original (%):

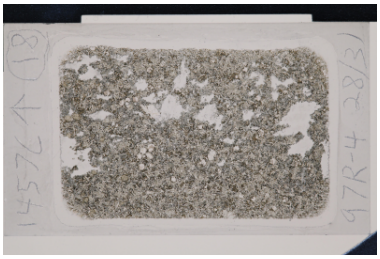
Groundmass phases	% original	% present	% replaced	MIN size (mm)	MAX size (mm)	Average size (mm)	Shape	Habit	Comments
Plagioclase		15					subhedral	laths	
Clinopyroxene	0.5	0.5							
Mesostasis	50								

THIN SECTION LABEL ID **355-U1457C-97R-4-W 28/31-TSB-TS_18** Thin section no.: 18

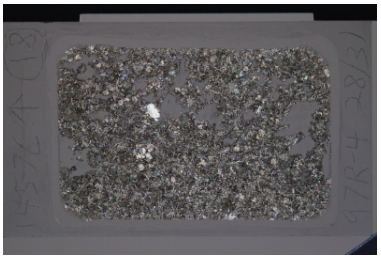
Unit/Subunit: Observer: Radhakrishna

Thin section summary: The rock is plagioclase phyric basalt. Plagioclase phenocrysts are about 1.5%. The rock is intersertal in texture with the groundmass of plagioclase laths and mesostasis. Ground mass is fine grained. Clinopyroxene can be described as microphenocryts and range up to 1%. The plagioclase laths make up to 40%. Plagioclase is generally fresh with sharp grain boundaries. Fe-Ti oxides are seen as accessory phase.The rock in terms of alteration is slightly altered. Vesicles are present and is described as sparsely vesicular basalt. Zeolite appear to be the common vesicle filling mineral

Plane-polarized:



Cross-polarized:



PRIMARY (IGNEOUS) MINERALOGY

LITHOLOGY: plagioclase phyric basalt

Texture 1:	intersertal	Domain relative abundance:	100
Avg. grain size:	fine grained	Grain size distribution:	bimodel

Phenocrysts	(%) original	(%) present	(%) replaced	size MIN (mm)	size MAX (mm)	size MODE (mm)	Shape	Habit	Comments
Plagioclase	1.5	1.5	0	0.2	1	0.4	subhedral	tabular	

Vesicle abundance	% empty	% filled	MIN size (mm)	MAX size (mm)	AVG size (mm)	Vesicle shape	Vesicle distribution
~5 (Sparsely vesicular)	80	20	0.1	0.5	0.4	elongate	

SECONDARY (ALTERATION) MINERALOGY

General phenocryst comments:

Phenocryst	Olivine	Orthopyroxene	Clinopyroxene	Plagioclase
Total original [%]				1.5
Total present [%]				1.5
Total replaced [%]				0

GROUNDMASS total original (%):

Groundmass phases	% original	% present	% replaced	MIN size (mm)	MAX size (mm)	Average size (mm)	Shape	Habit	Comments
Plagioclase		40					subhedral	laths	
Clinopyroxene	1	1							
Mesostasis	45								

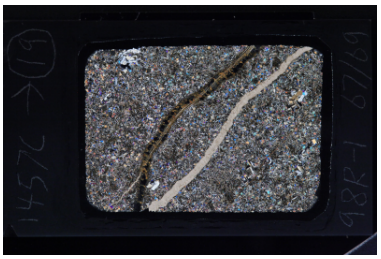
THIN SECTION LABEL ID **355-U1457C-98R-1-W 67/69-TSB-TS_19** Thin section no.: 19

Unit/Subunit: Observer: Radhakrishna

Thin section summary: The rock is olivine clinopyroxene plagioclase phyric basalt with nearly 3% plagioclase phenocrysts. Clinopyroxene phenocrysts are about 1% and olivine is less than 1%. The rock is fine grained and intersertal in texture. Rarely subophitic texture is also seen. Olivine and clinopyroxene seen as microphenocryts and range up to 3%. Plagioclase laths make up to 50% of the section. Plagioclase is generally fresh with sharp grain boundaries. Fe-Ti oxides are seen as accessory phase.The rock in terms of alteration is slightly altered. However, the section contains at least four micro-veins; two are <1 mm wide and the other two are 0.1 mm wide and filled with calcite and a few unidentified mineral. Vesicles are rare and the rock is non-vesicular basalt.

Plane-polarized:

Cross-polarized:



PRIMARY (IGNEOUS) MINERALOGY

LITHOLOGY: olivine-clinopyroxene-plagioclase phyric basalt

Texture 1:	intersertal	Domain relative abundance:	100
Avg. grain size:	fine grained	Grain size distribution:	bimodel

Phenocrysts	(%) original	(%) present	(%) replaced	size MIN (mm)	size MAX (mm)	size MODE (mm)	Shape	Habit	Comments
Olivine	1	1	0	0.1	0.2	0.15	anhedral	subequant	
Plagioclase	3	3	0	0.2	1.1	0.5	subhedral	tabular	
Clinopyroxene	1	1	0	0.1	0.2		anhedral	Equent	

Vesicle abundance	% empty	% filled	MIN size (mm)	MAX size (mm)	AVG size (mm)	Vesicle shape	Vesicle distribution
<1 (Non vesicular)							

SECONDARY (ALTERATION) MINERALOGY

General phenocryst comments:

Phenocryst	Olivine	Orthopyroxene	Clinopyroxene	Plagioclase
Total original [%]	1		1	3
Total present [%]	1		1	3
Total replaced [%]	0		0	0

GROUNDMASS total original (%):

Groundmass phases	% original	% present	% replaced	MIN size (mm)	MAX size (mm)	Average size (mm)	Shape	Habit	Comments
Plagioclase		50					subhedral	laths	
Clinopyroxene	3	3							
Mesostasis	40								

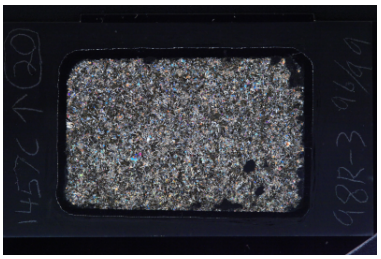
THIN SECTION LABEL ID **355-U1457C-98R-3-W 96/99-TSB-TS_20** Thin section no.: 20

Unit/Subunit: Observer: Radhakrishna

Thin section summary: The rock is olivine, clinopyroxene plagioclase olivine phyric basalt. Olivine phenocrysts are about 0.5%; plagioclase and clinopyroxene are about 1% each. Rock is fine grained and texture is intersertal. About 2-3% Clinopyroxene and olivine is seen as microphenocrysts. Plagioclase laths are abundant (55%) and sometimes show sub-ophitic intergrowth. Fe-Ti oxides are seen as accessory phase. Phenocrysts are fresh and the rock is slightly altered. Vesicles are rare and veins are absent. The rock is non vesicular.

Plane-polarized:

Cross-polarized:



PRIMARY (IGNEOUS) MINERALOGY

LITHOLOGY: olivine-clinopyroxene-plagioclase phyric basalt

Texture 1:	intersertal	Domain relative abundance:	100
Avg. grain size:	fine grained	Grain size distribution:	bimodel

Phenocrysts	(%) original	(%) present	(%) replaced	size MIN (mm)	size MAX (mm)	size MODE (mm)	Shape	Habit	Comments
Olivine	0.5	0.5	0	0.1	0.25	0.15	anhedral	equant	
Plagioclase	1	1	0	0.2	0.42	0.275	subhedral	tabular	
Clinopyroxene	1	1	0	0.15	0.25		anhedral	Equent to elongate	

Vesicle abundance	% empty	% filled	MIN size (mm)	MAX size (mm)	AVG size (mm)	Vesicle shape	Vesicle distribution
<1 (Non vesicular)							

SECONDARY (ALTERATION) MINERALOGY

General phenocryst comments:

Phenocryst	Olivine	Orthopyroxene	Clinopyroxene	Plagioclase
Total original [%]	0.5		1	1
Total present [%]	0.5		1	1
Total replaced [%]	0		0	0

GROUNDMASS total original (%):

Groundmass phases	% original	% present	% replaced	MIN size (mm)	MAX size (mm)	Average size (mm)	Shape	Habit	Comments
Olivine	1	1							
Plagioclase		55					subhedral	laths	
Clinopyroxene	1	1							
Mesostasis	40								

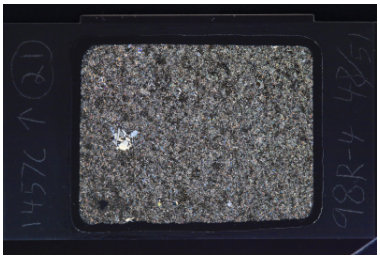
THIN SECTION LABEL ID **355-U1457C-98R-4-W 48/51-TSB-TS_21** Thin section no.: 21

Unit/Subunit: Observer: Radhakrishna

Thin section summary: The rock is olivine, clinopyroxene, plagioclase phyric basalt. Plagioclase is the major phenocryst phase. Olivine and clinopyroxene also found to be occur as phenocrysts in smaller percentages (nearly 1%) but are commonly occur as microphenocryst phases (2%). The rock is fine grained and texture is intersertal to rarely subophitic. Plagioclase laths are more abundant and occupies 50% of the rock. Fe-Ti oxides are seen as accessory phase.The phenocrysts are fresh and do not show any alteration features. So the rock can be classified as slightly altered one. Vesicles and veins are almost absent and the rock is nonvesicular.

Plane-polarized:

Cross-polarized:



PRIMARY (IGNEOUS) MINERALOGY

LITHOLOGY: olivine-clinopyroxene-plagioclase phyric basalt

Texture 1:	intersertal	Domain relative abundance:	100
Avg. grain size:	microcrystalline	Grain size distribution:	bimodel

Phenocrysts	(%) original	(%) present	(%) replaced	size MIN (mm)	size MAX (mm)	size MODE (mm)	Shape	Habit	Comments
Olivine	0.5	0.5	0	0.1	0.2	0.15	anhedral	equant	
Plagioclase	1.5	1.5	0	0.2	0.8	0.4	subhedral	tabular	
Clinopyroxene	0.5	0.5	0	0.1	0.25		anhedral	Equent to elongate	

Vesicle abundance	% empty	% filled	MIN size (mm)	MAX size (mm)	AVG size (mm)	Vesicle shape	Vesicle distribution
<1 (Non vesicular)							

SECONDARY (ALTERATION) MINERALOGY

General phenocryst comments:

Phenocryst	Olivine	Orthopyroxene	Clinopyroxene	Plagioclase
Total original [%]	0.5		0.5	1.5
Total present [%]	0.5		0.5	1.5
Total replaced [%]	0		0	0

GROUNDMASS total original (%):

Groundmass phases	% original	% present	% replaced	MIN size (mm)	MAX size (mm)	Average size (mm)	Shape	Habit	Comments
Olivine	1	1							
Plagioclase		50					subhedral	laths	
Clinopyroxene	1	1							
Mesostasis	45								