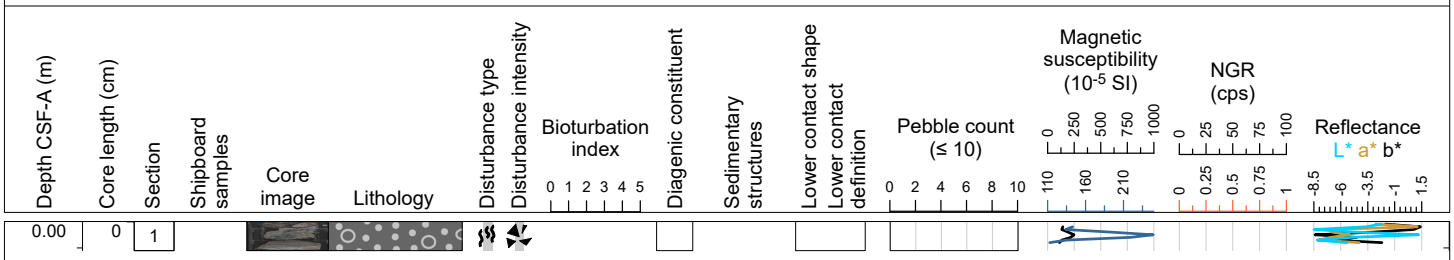
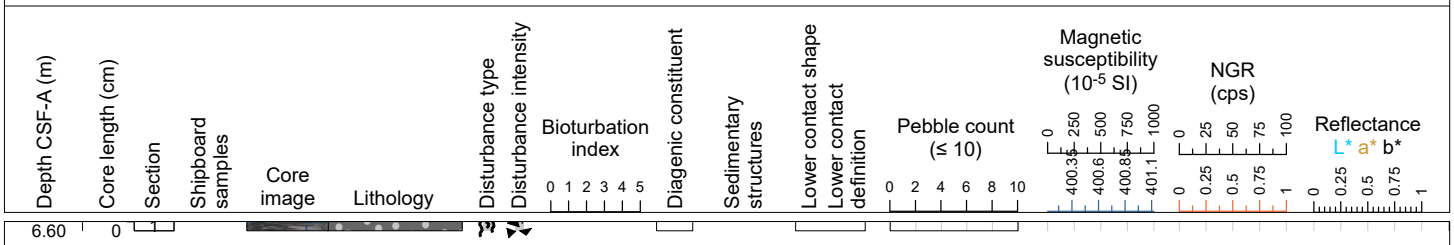
Hole 400-U1608A Core 1R, Interval 0.0-0.22 m (CSF-A)

Granitic and gneissic cobbles and pebbles.



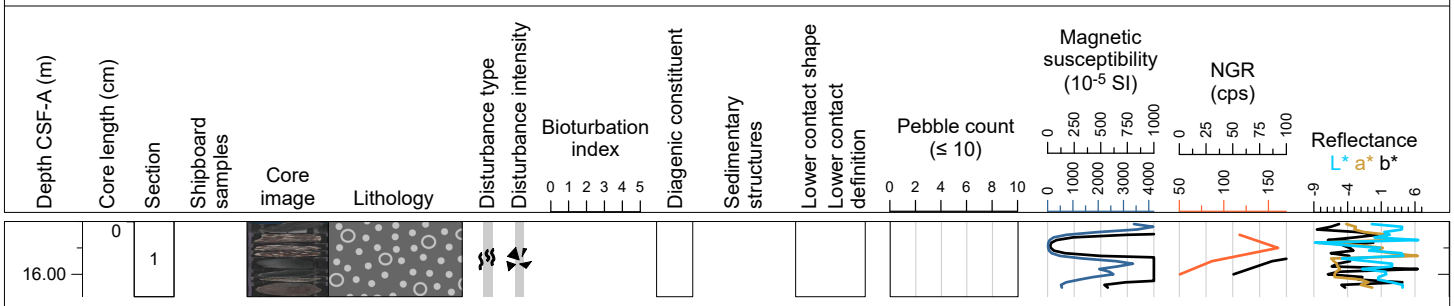
Hole 400-U1608A Core 2R, Interval 6.6-6.67 m (CSF-A)

Granitic and gneissic cobbles and pebbles.



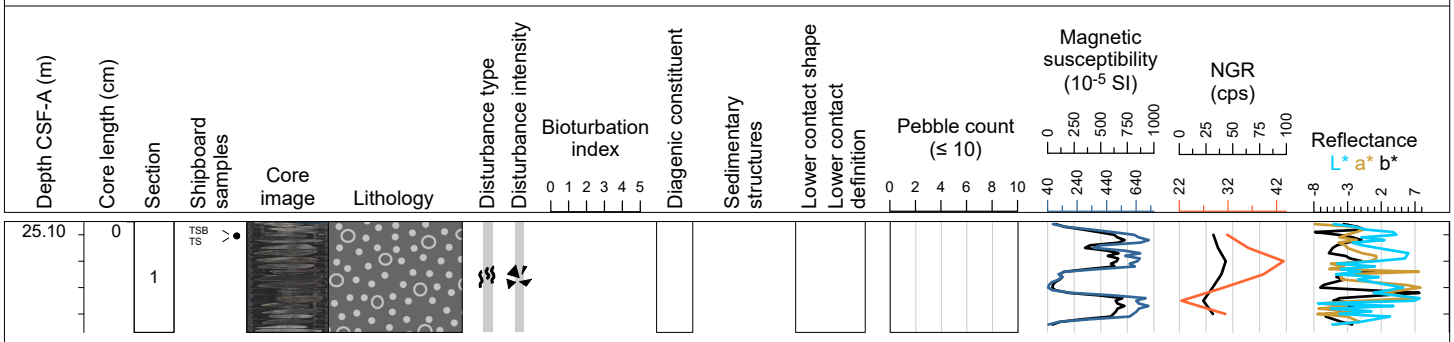
Hole 400-U1608A Core 3R, Interval 15.6-16.17 m (CSF-A)

Granitic and gneissic cobbles and pebbles.



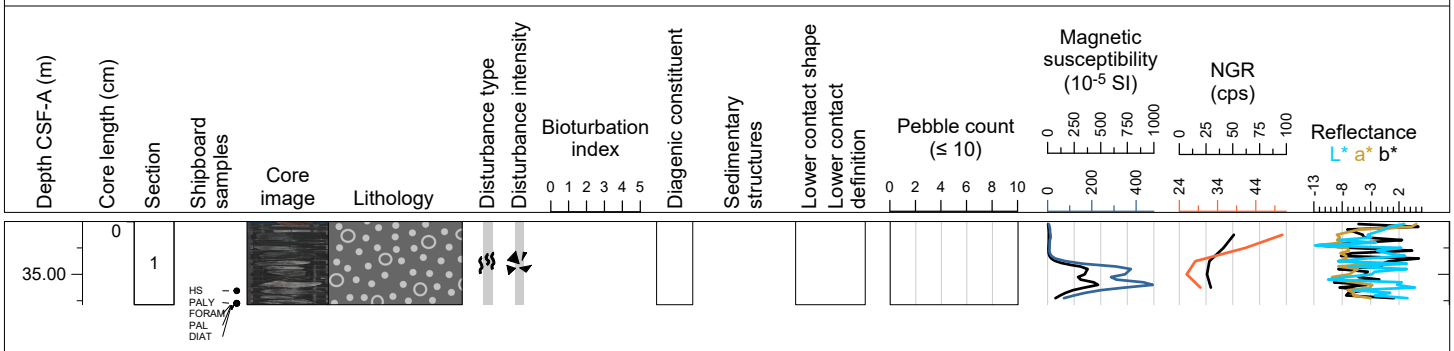
Hole 400-U1608A Core 4R, Interval 25.1-25.94 m (CSF-A)

Granitic and gneissic cobbles and pebbles.



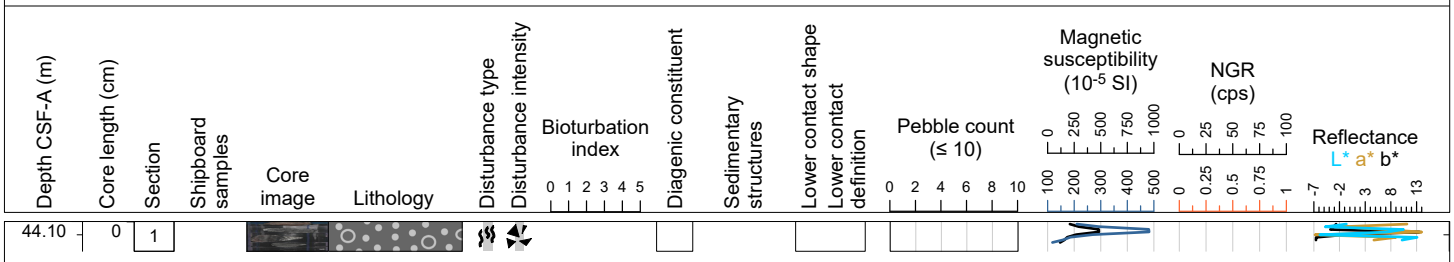
Hole 400-U1608A Core 5R, Interval 34.6-35.23 m (CSF-A)

Granitic, fine-grained mafic, and fine to coarse grained gneissic cobbles and pebbles.



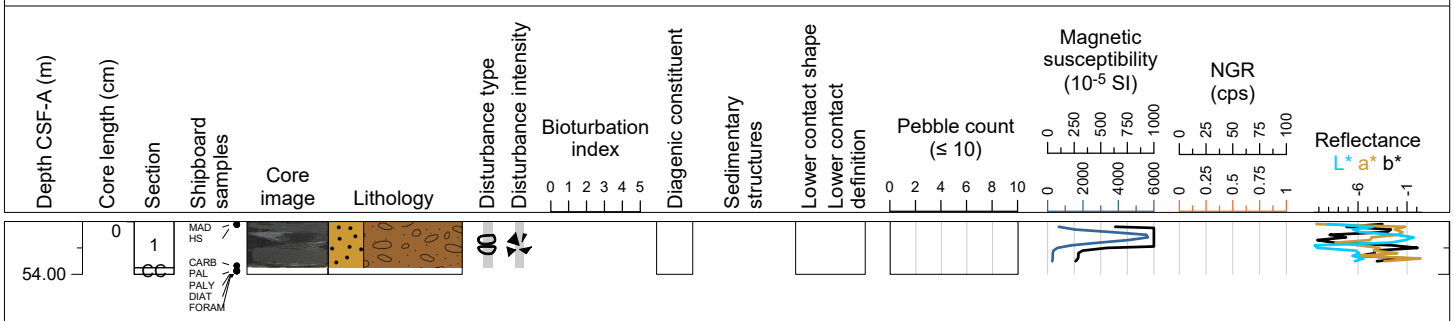
Hole 400-U1608A Core 6R, Interval 44.1-44.325 m (CSF-A)

Fine-grained mafic, fine to coarse grained gneissic cobbles and pebbles, and one limestone clast up to 3 cm in diameter.



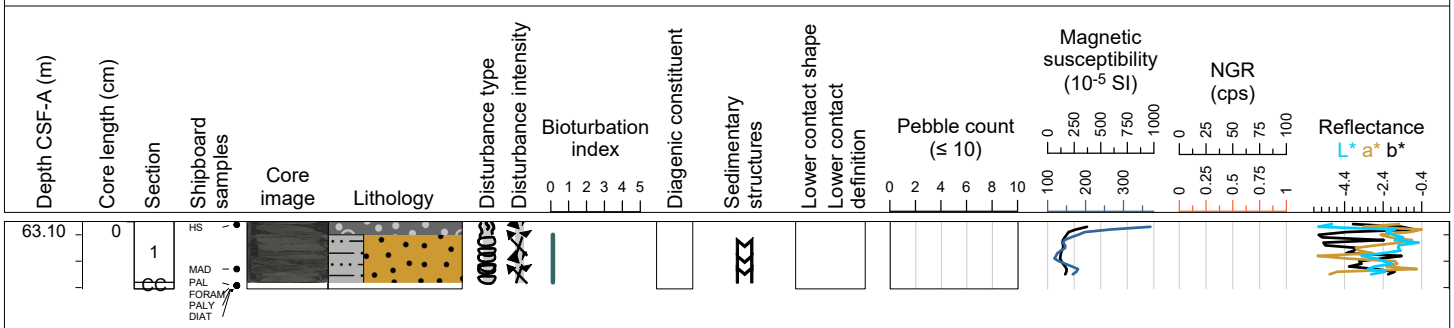
Hole 400-U1608A Core 7R, Interval 53.6-54.0 m (CSF-A)

Medium greenish grey sand with a 10 cm in diameter mafic igneous clast and other smaller granites and metamorphic clasts. One limestone with intraclast up to 4 cm in diameter.



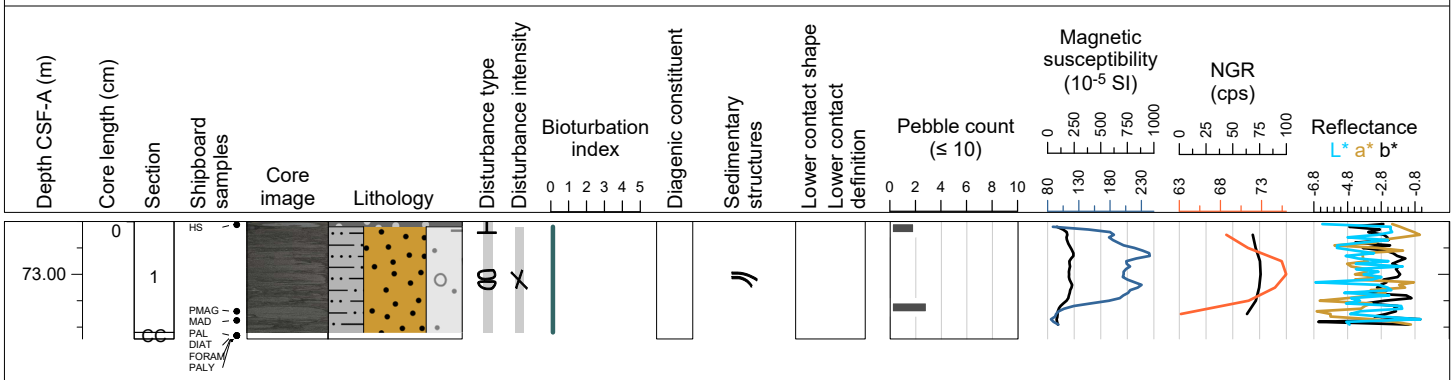
Hole 400-U1608A Core 8R, Interval 63.1-63.61 m (CSF-A)

Washed gravel (gneiss and limestone) at the top of the core. Underlain by medium greenish grey, poorly sorted massive fine muddy sand. Framework grains (quartz and lithic fragments) are subrounded. Bioturbation absent.



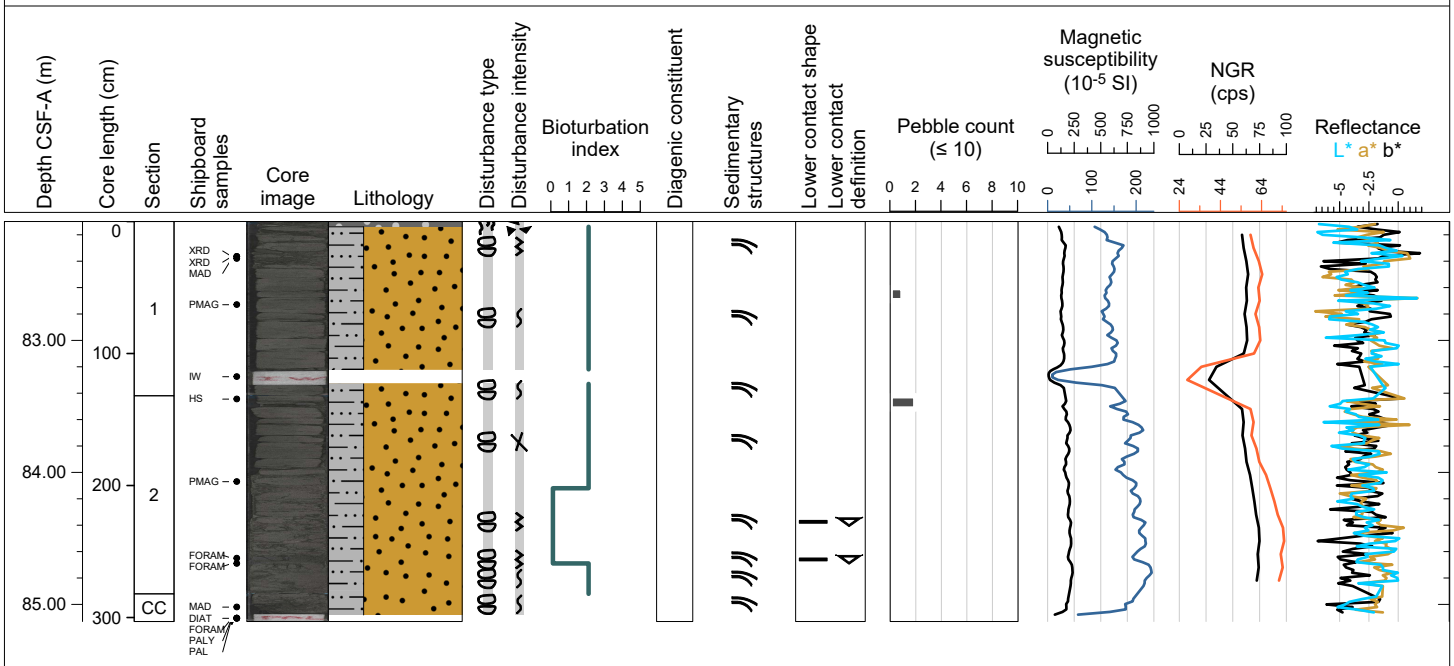
Hole 400-U1608A Core 9R, Interval 72.6-73.49 m (CSF-A)

Light greenish grey muddy sand with dispersed clasts, poorly sorted and few wavy laminations. Two large clasts (up to 5 cm) at top of core are carbonate cemented. Other pebbles (5-8 mm) occur in drilling disturbance gravy. Bioturbation is absent.



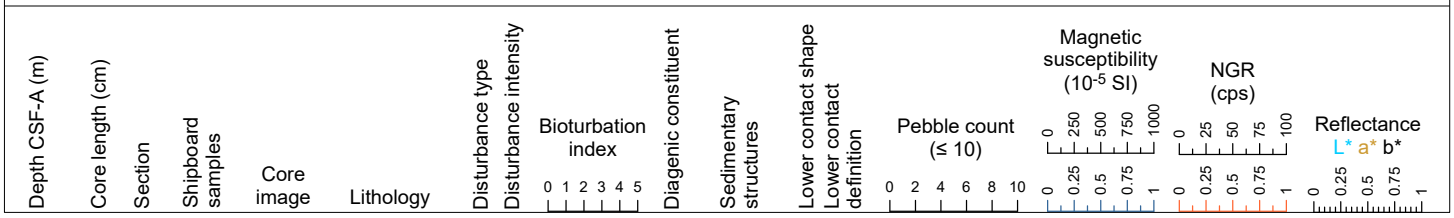
Hole 400-U1608A Core 10R, Interval 82.1-85.13 m (CSF-A)

Medium greenish grey, poorly sorted stratified muddy fine sand. Grains (quartz and lithic fragments) are subrounded. Bioturbation is evident through Section 1 and the upper half of Section 2. It is absent in the lower half of Section 2. CC is too disturbed for further interpretation.



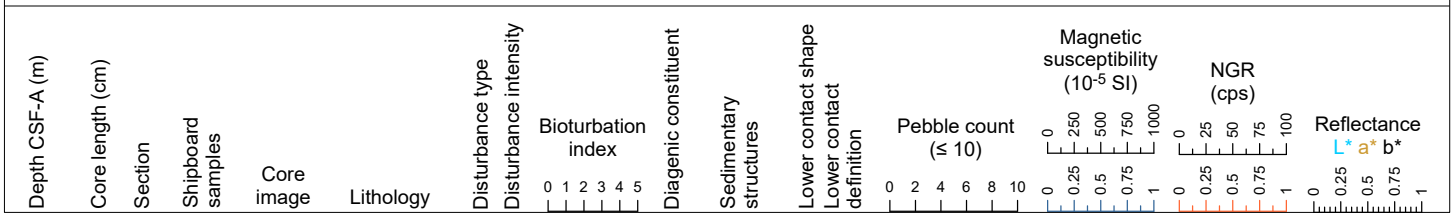
Hole 400-U1608A Core 11R, Interval 91.6-91.6 m (CSF-A)

NO RECOVERY 91.60-96.30 m



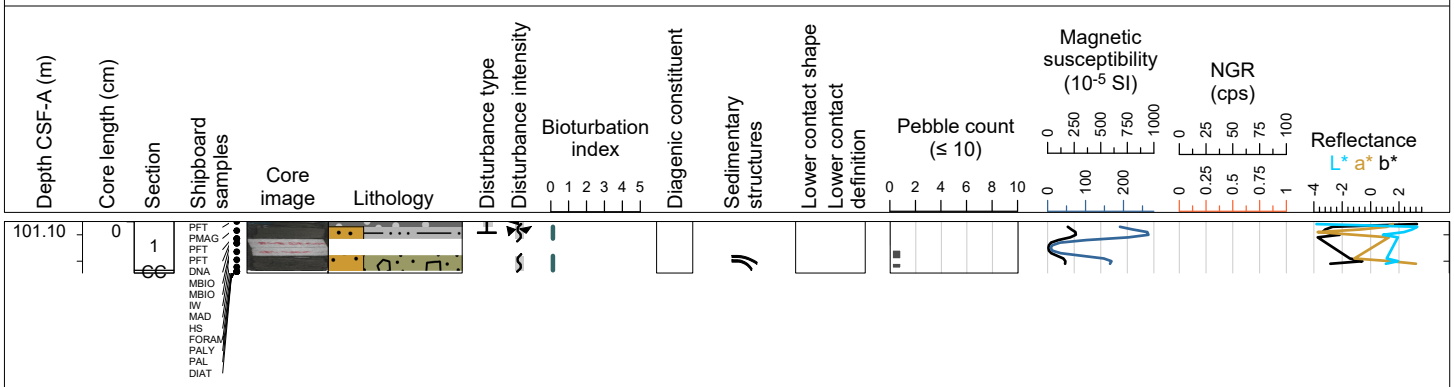
Hole 400-U1608A Core 12R, Interval 96.3-96.3 m (CSF-A)

NO RECOVERY 96.30-101.10 m



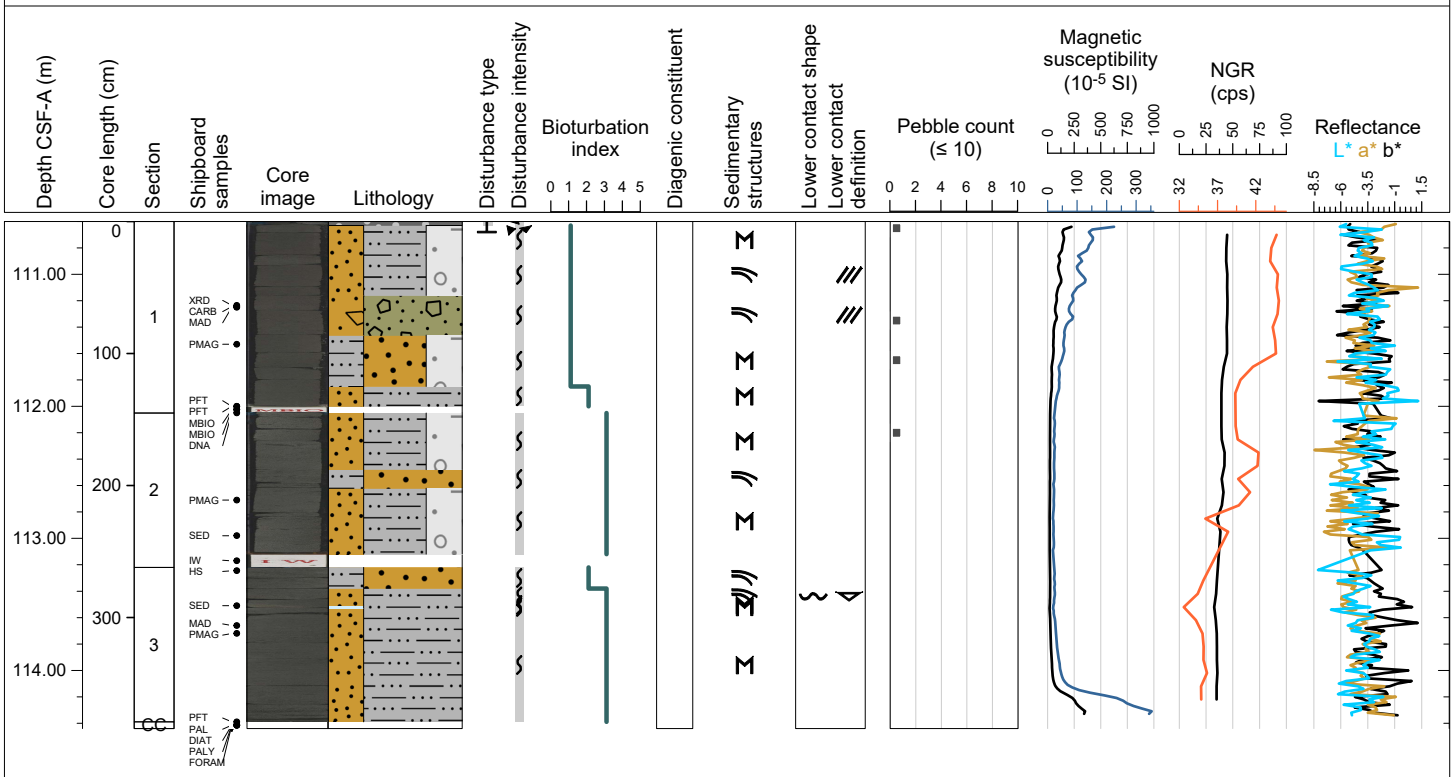
Hole 400-U1608A Core 13R, Interval 101.1-101.49 m (CSF-A)

Dark greenish grey massive sandy mud and stratified clast-poor sandy diamicton with diorite and black volcanic rock pebbles.



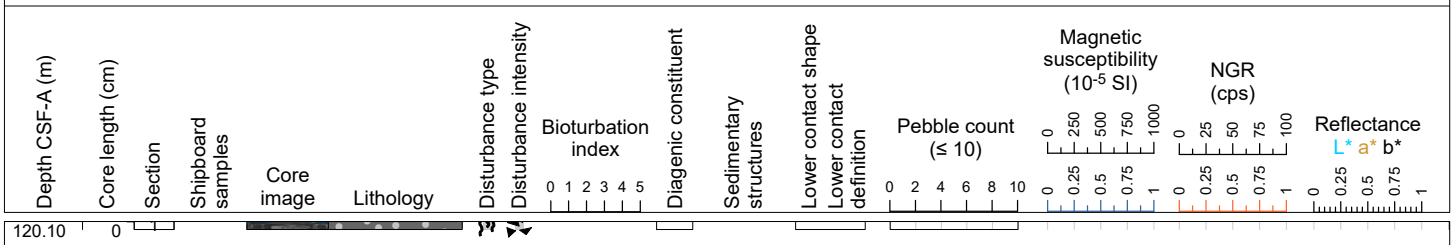
Hole 400-U1608A Core 14R, Interval 110.6-114.44 m (CSF-A)

Dark greenish grey sandy mud with dispersed clasts grading into and out of stratified clast-poor sandy diamicton, and greenish grey bioturbated very fine sandy mud. A light greenish grey calcareous mud bleb that does not extend across the width of the core, and a pyritized mud clast are present in Section 3.



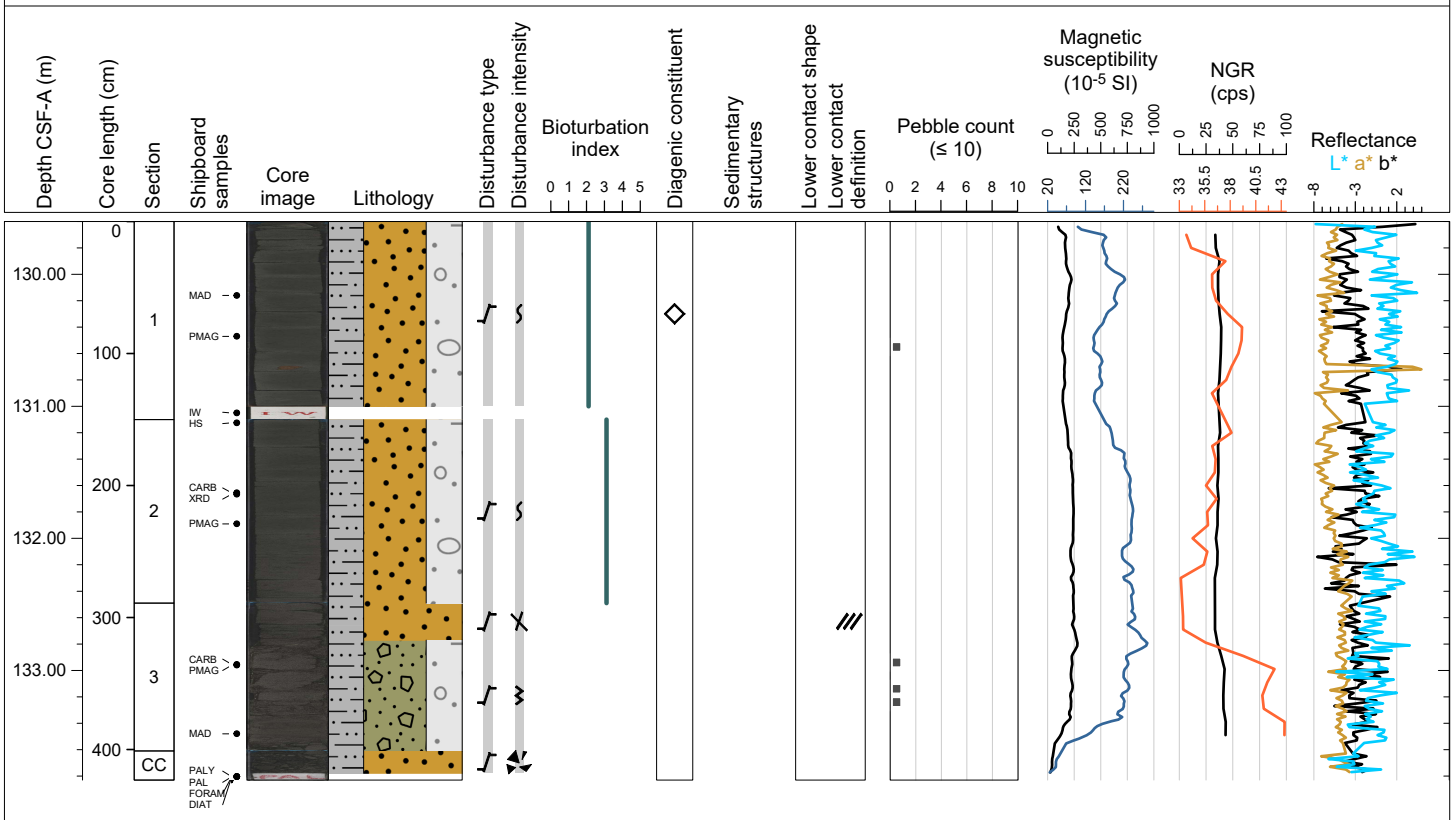
Hole 400-U1608A Core 15R, Interval 120.1-120.16 m (CSF-A)

Washed gravel. Igneous pebbles, granite.



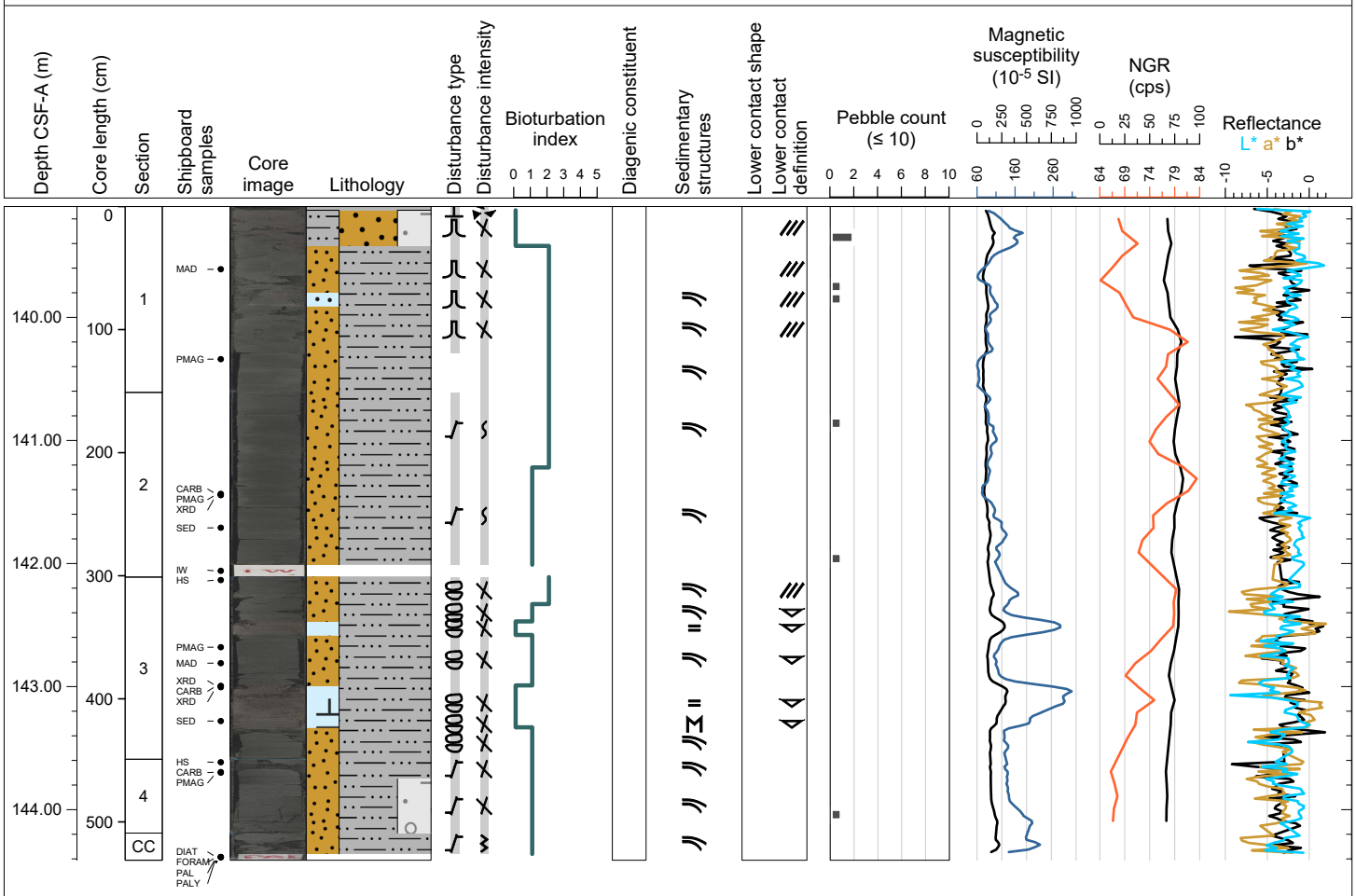
Hole 400-U1608A Core 16R, Interval 129.6-133.83 m (CSF-A)

Greenish grey bioturbated muddy sand with dispersed clasts. The grain size increases downcore to form a greenish grey diamicton with shell fragments. The drilling disturbance is slight upcore and severe downcore.



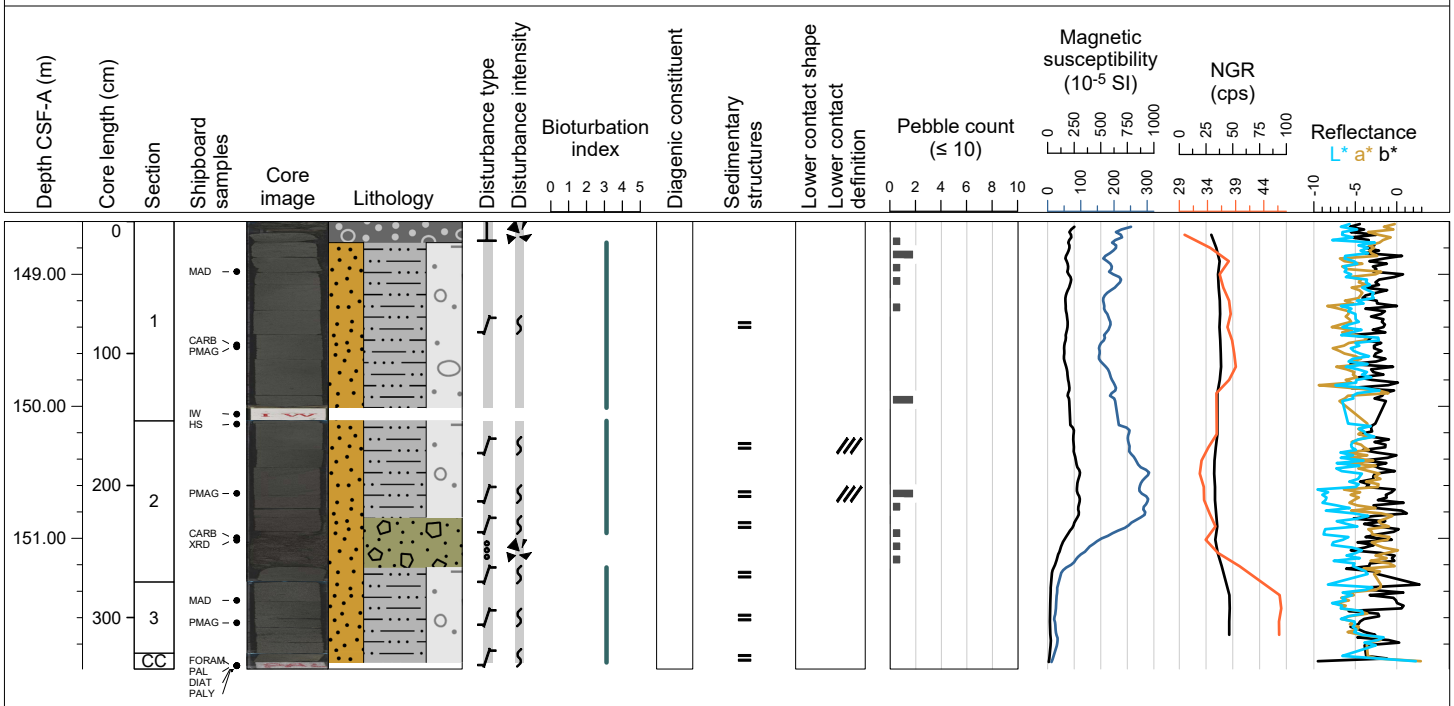
Hole 400-U1608A Core 17R, Interval 139.1-144.41 m (CSF-A)

Greenish-grey, weakly to well-stratified muddy sand and sandy mud (with or without dispersed clasts) alternating with 3-30 cm-thick brown calcareous, massive to parallel-laminated mud intervals. The lower and upper contacts of the calcareous mud intervals are sharp. Bioturbation is present in the muddy sand/sandy mud to varying degrees and is absent in the well-laminated calcareous beds.



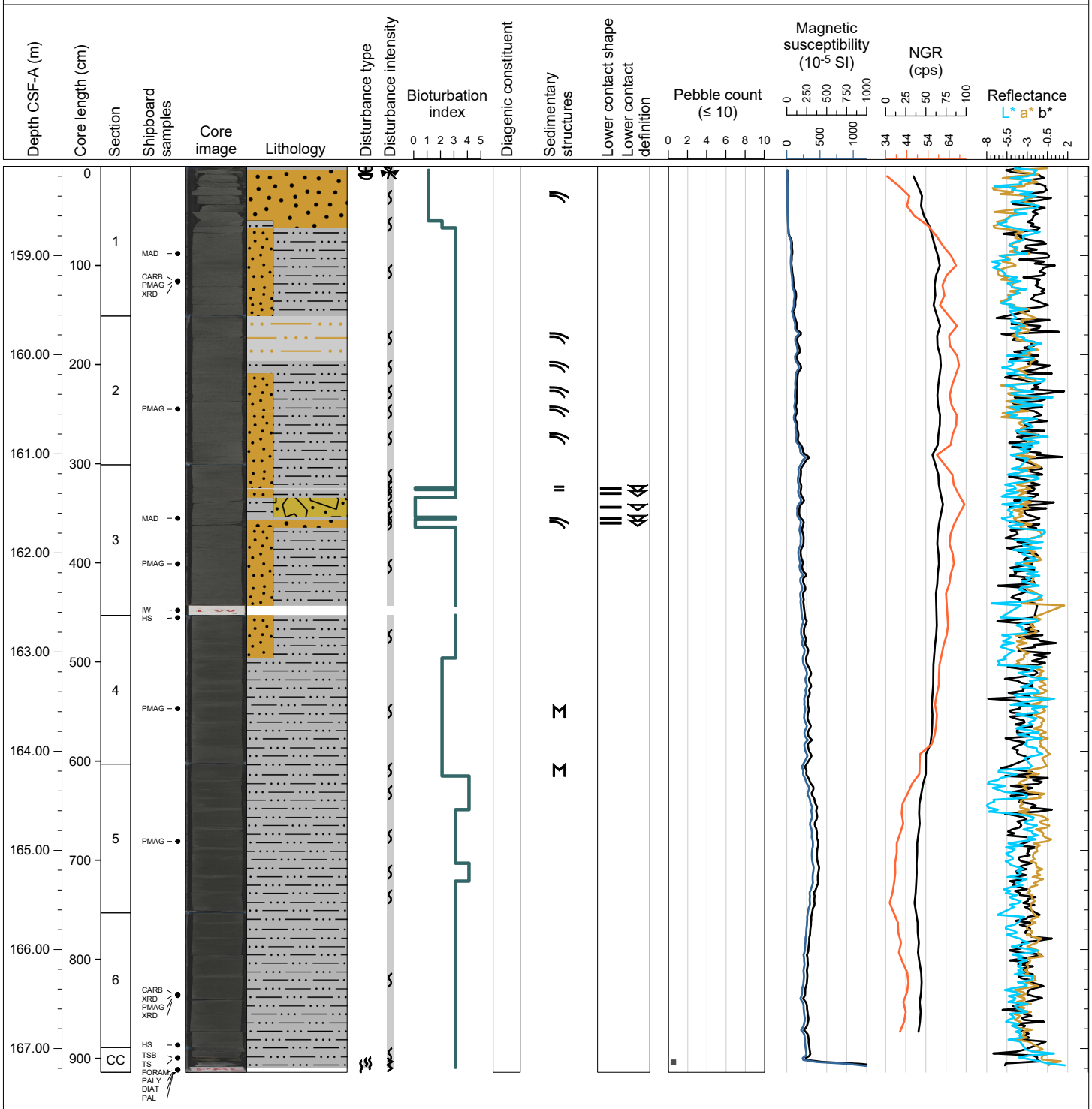
Hole 400-U1608A Core 18R, Interval 148.6-151.99 m (CSF-A)

Dark greenish-grey to dark brown, weakly laminated sandy mud and muddy sand with dispersed clasts and one interval of sandy diamicton. The bottom of Section 2 to the top of Section 1 is a fining-upward interval that begins with sandy diamicton with high drilling disturbance and gradually grades into a muddy sand and then sandy mud. Bioturbation is present as mm-scale burrows that are occasionally pyritized.



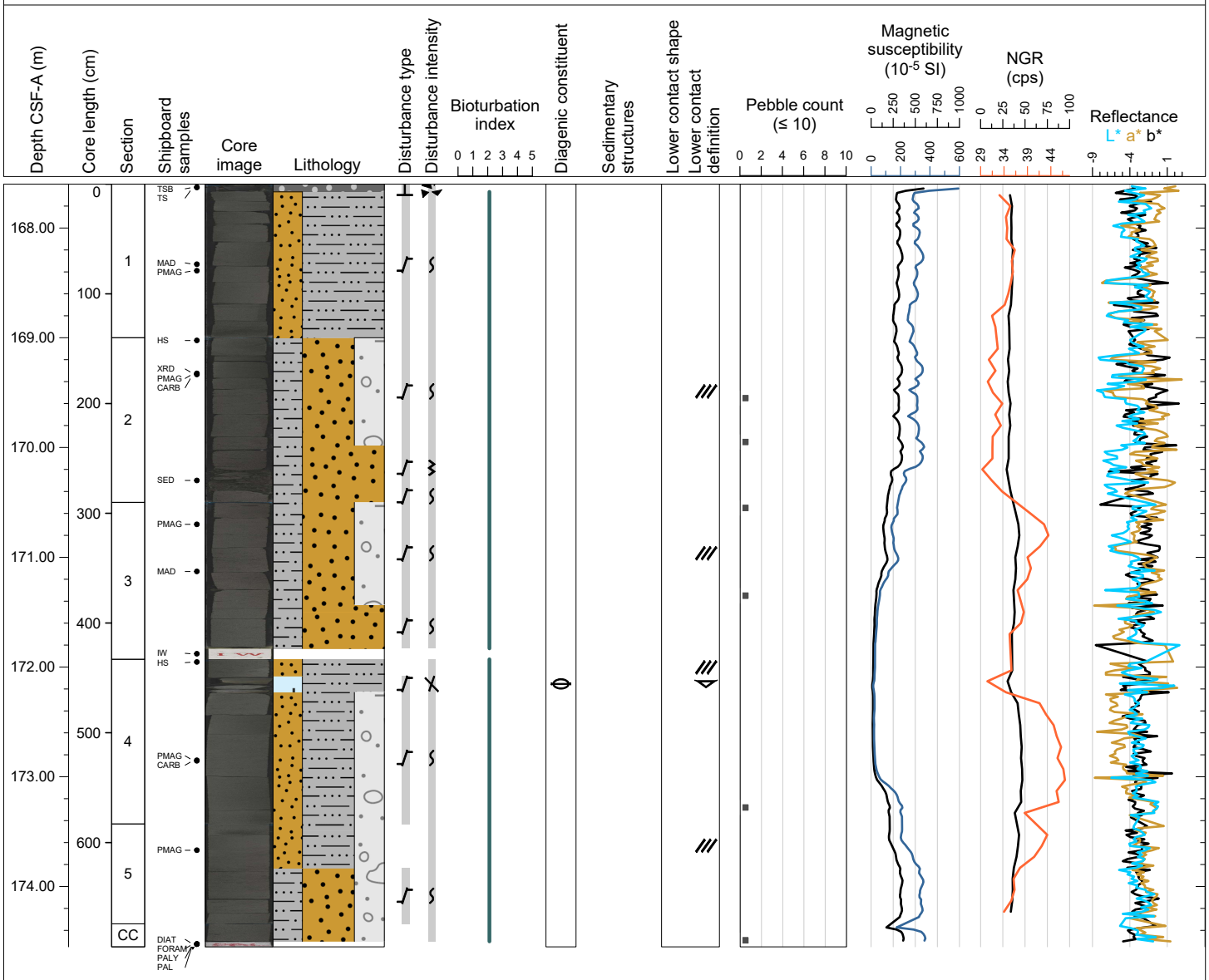
Hole 400-U1608A Core 19R, Interval 158.1-167.24 m (CSF-A)

Dark greenish grey bioturbated sandy mud with a bed of stratified sand in Section 1. Pyritized burrows are common. A sponge macrofossil is present in the core catcher.



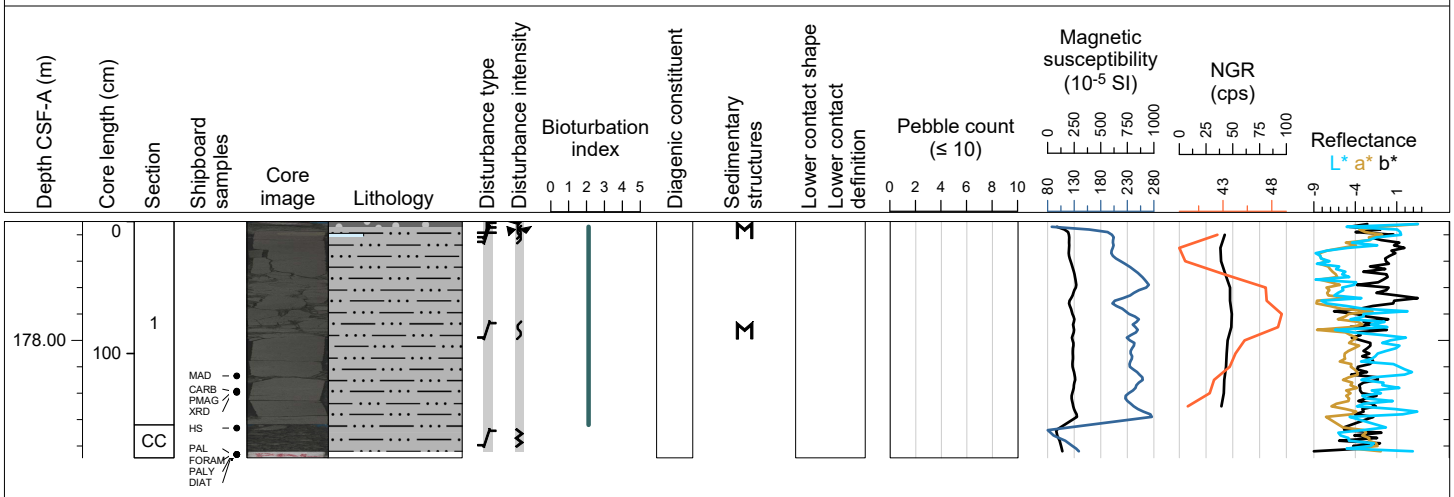
Hole 400-U1608A Core 20R, Interval 167.6-174.55 m (CSF-A)

Greenish grey bioturbated muddy sand and sandy mud with dispersed clasts interbedded with coarser greyish brown muddy sand with dispersed clasts. In Section 4 calcite cemented concretions are observed in a bed of mixed greenish grey mud and yellowish grey calcareous mud. Shells fragments are present.



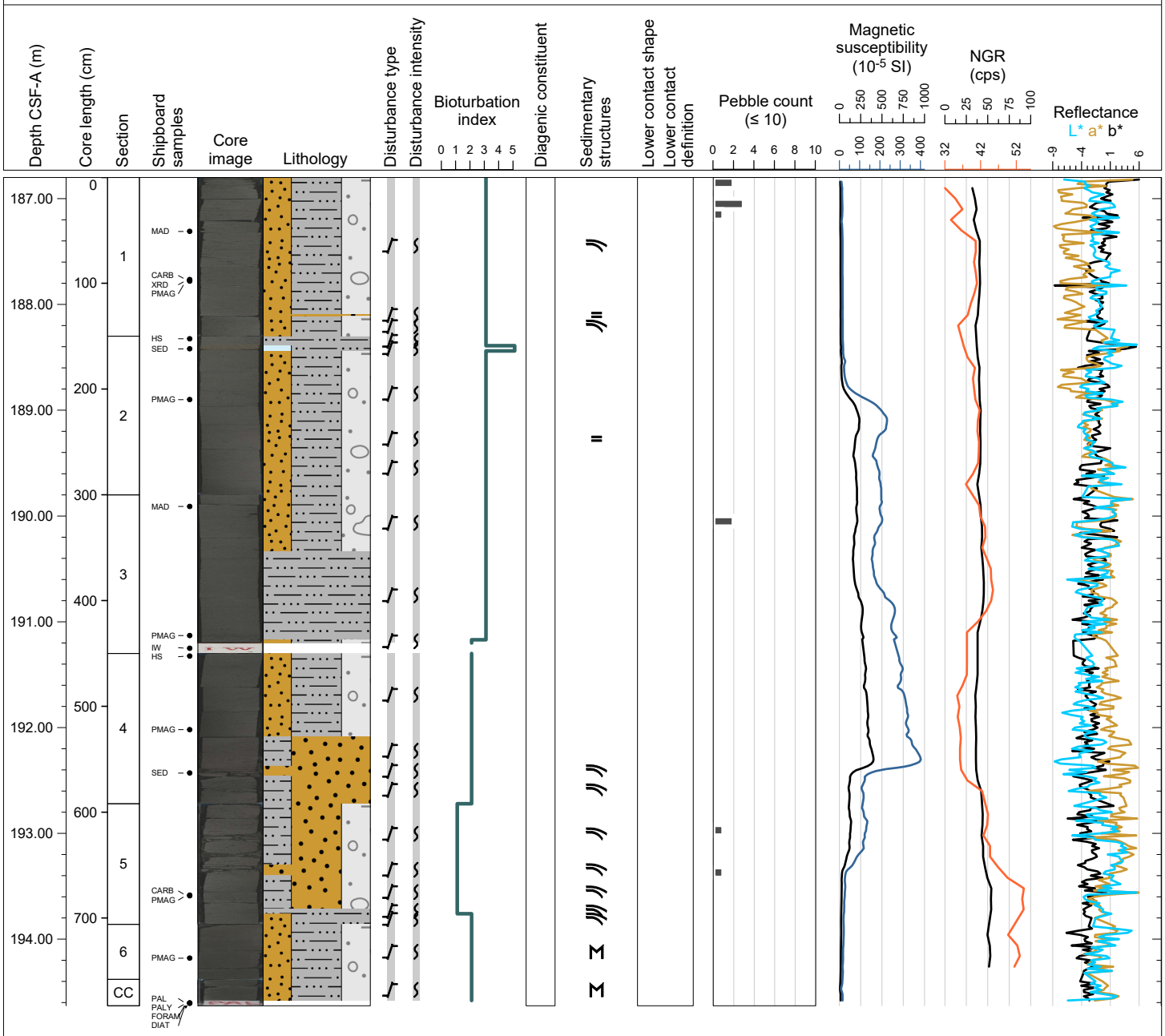
Hole 400-U1608A Core 21R, Interval 177.1-178.89 m (CSF-A)

Dark greenish grey bioturbated mud. Dispersed coarse sand grains are present throughout. A yellowish-grey calcareous burrow fill is also observed.



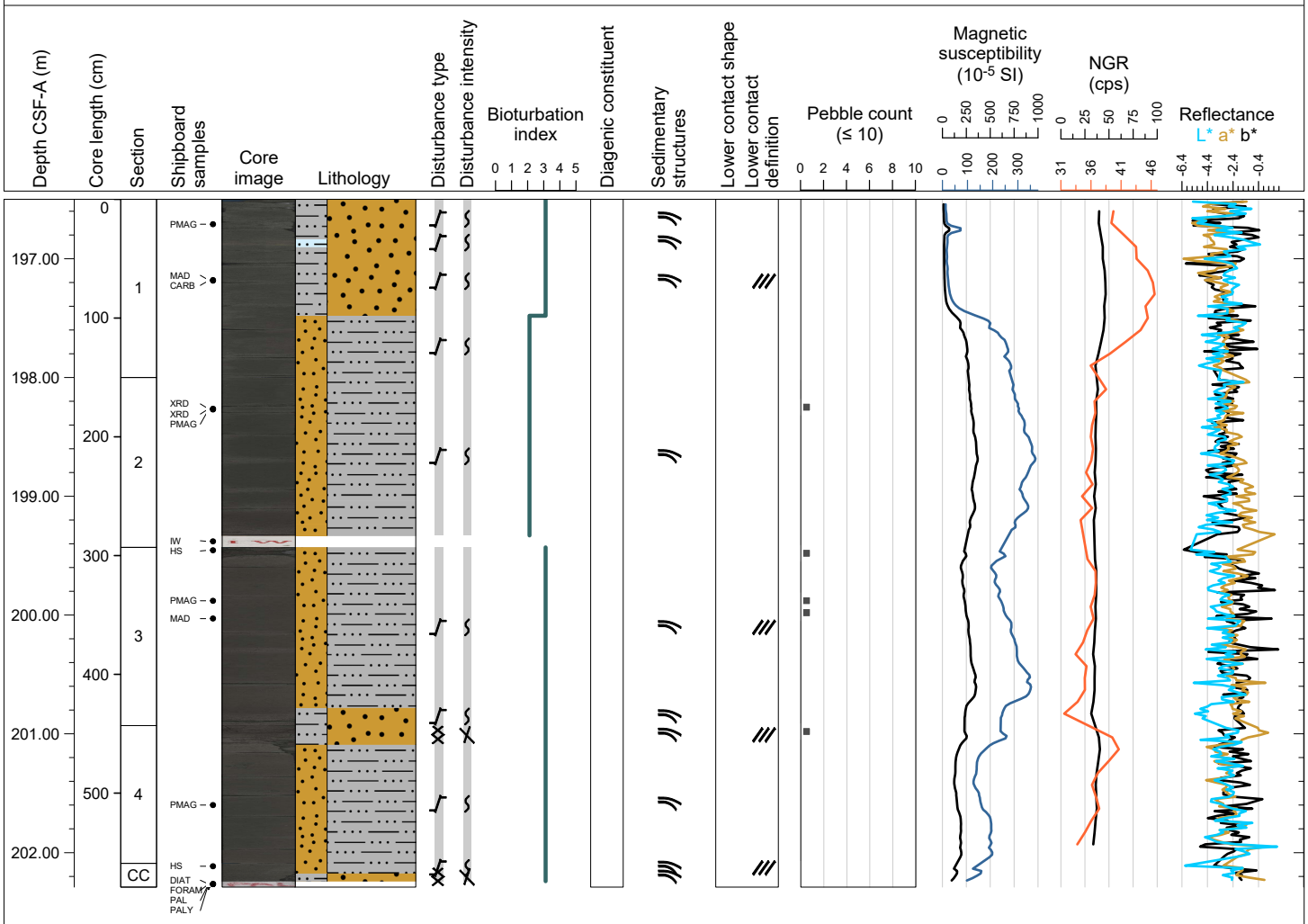
Hole 400-U1608A Core 22R, Interval 186.8-194.63 m (CSF-A)

Greenish grey and dark greenish grey interbedded sandy mud, muddy sand, mud and sand, that is bioturbated. Rare shell fragments are observed and a few calcareous blebs and beds in Sections 1 and 2.



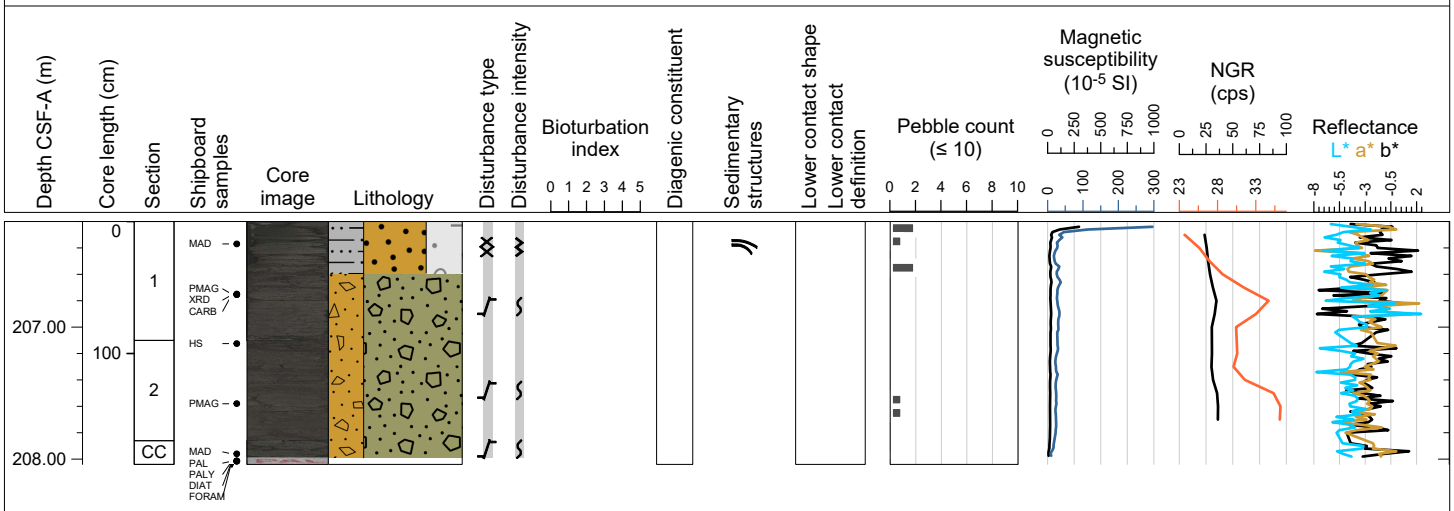
Hole 400-U1608A Core 23R, Interval 196.5-202.29 m (CSF-A)

Greyish green sandy mud interbedded with muddy sand, poorly sorted with high proportions of coarse sand up to 2mm. Contacts are gradational with a thinner gradational contact from muddy sand up to overlying sandy mud. Both lithologies contain occasional well-preserved laminations of coarse sand that are parallel and inclined with sharp bases. A calcareous mud layer is present as burrow fills and blebs occur in Section 1 at 33-40 cm. Rare shell fragments and oragnic material was present throughout and rare 5-30 mm clasts were dispersed throughout the core. Bioturbation is predominantly common with sand lined 5-10 mm burrows.



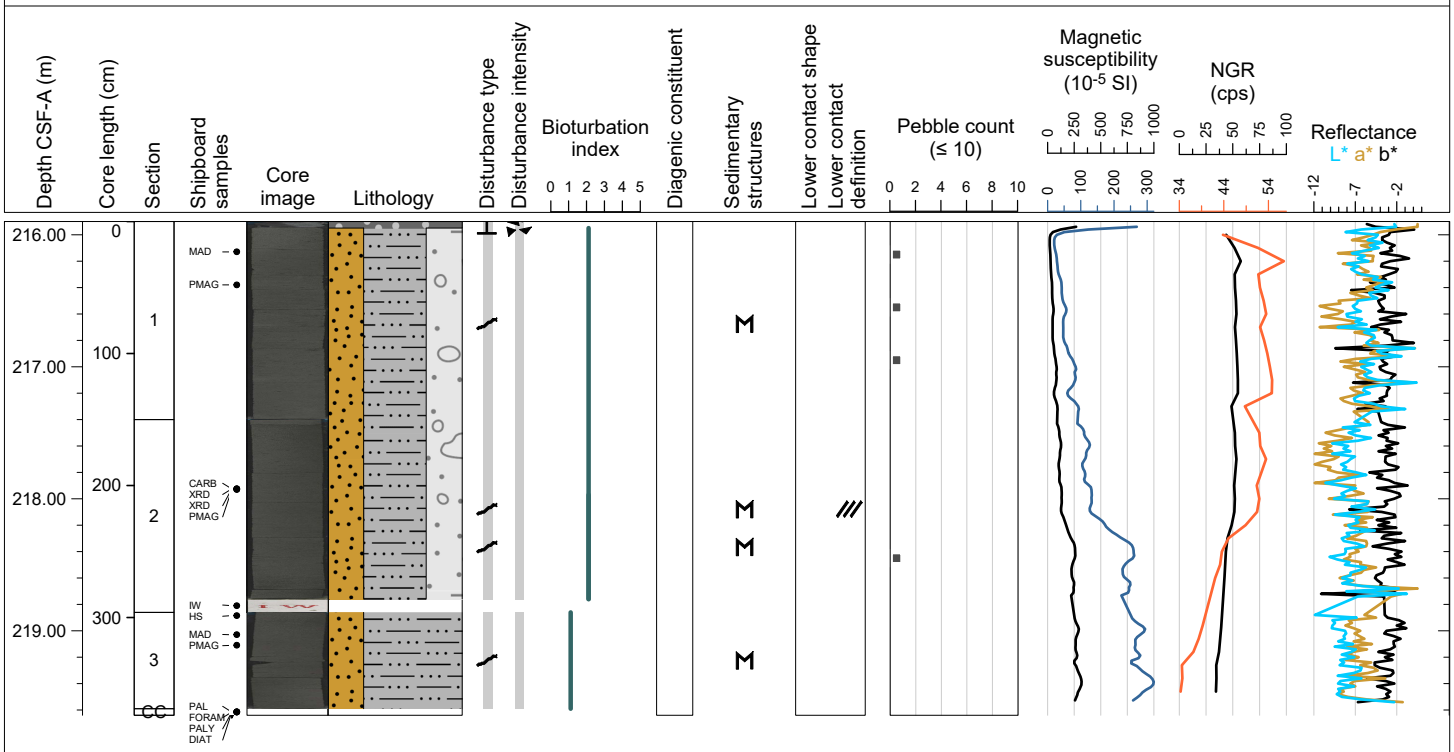
Hole 400-U1608A Core 24R, Interval 206.2-208.04 m (CSF-A)

Dark greenish grey stratified muddy sand with dispersed clasts (10-40 mm) and clast-rich sandy diamicton (clasts of 2-5 mm). Clasts are sub-rounded to sub-angular large crystalline granular, likely plutonic. Bioturbation is obscured due to drilling disturbance.



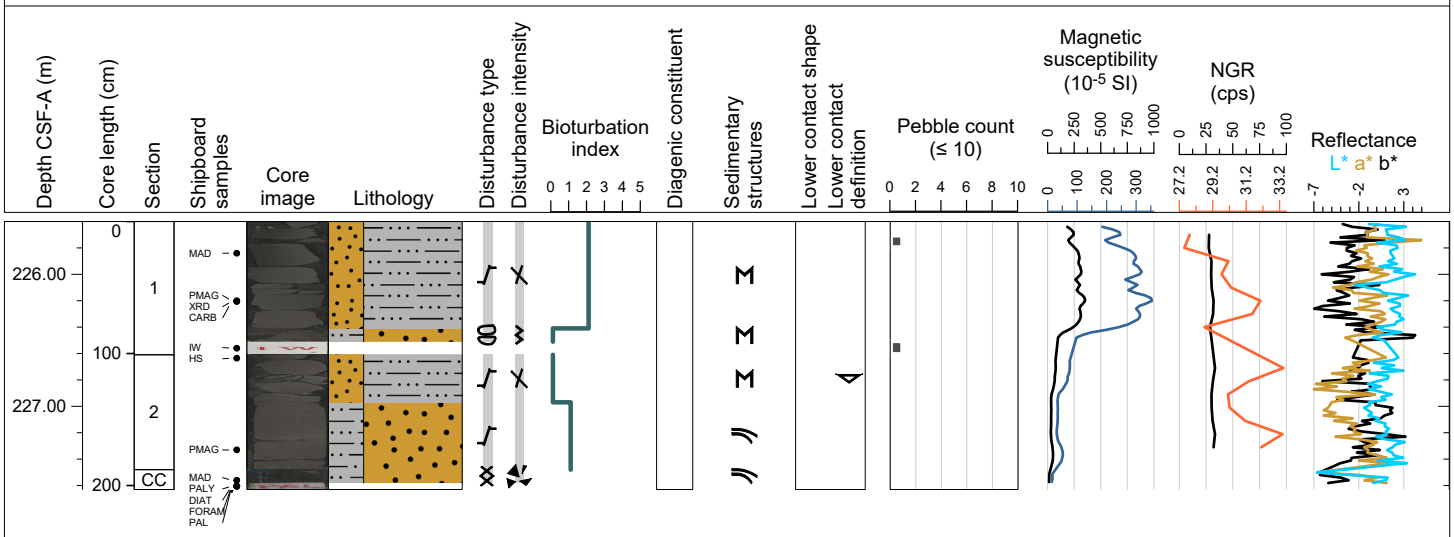
Hole 400-U1608A Core 25R, Interval 215.9-219.64 m (CSF-A)

Medium greenish grey massive sandy mud with dispersed clasts and sandy mud. Bioturbation, where present, is faint, with mm-scale burrows filled with grey to black mud. Outsized clasts are 5-10 mm. These are mainly black clasts, with one granite clast in Section 1.



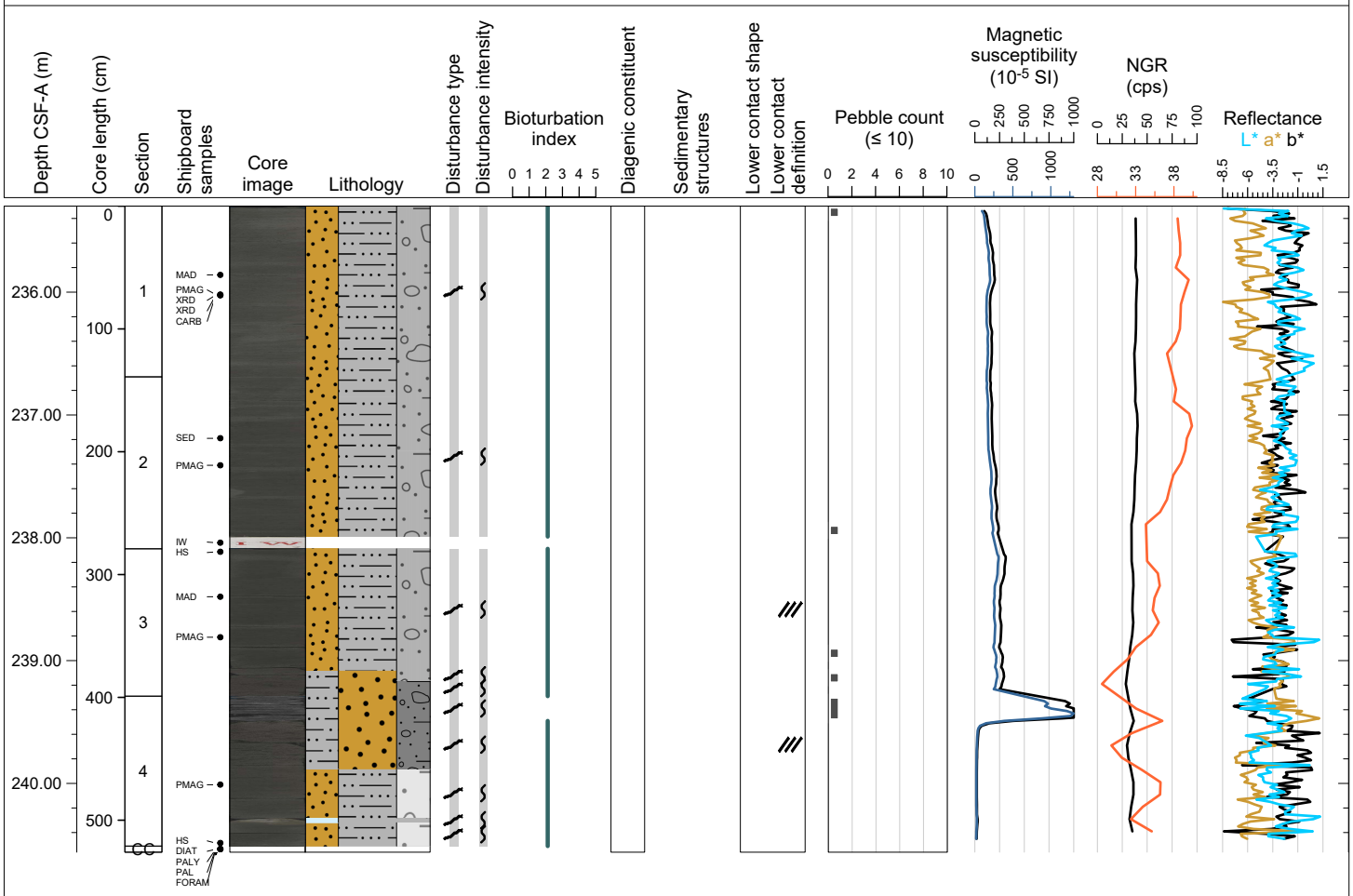
Hole 400-U1608A Core 26R, Interval 225.6-227.63 m (CSF-A)

Medium greenish grey massive sandy mud and faintly stratified muddy very fine sand. Bioturbation, where present, is typically faint and burrows are filled with grey to black mud. The lower half of Section 2 contains a few burrows filled with yellow-brown mud.



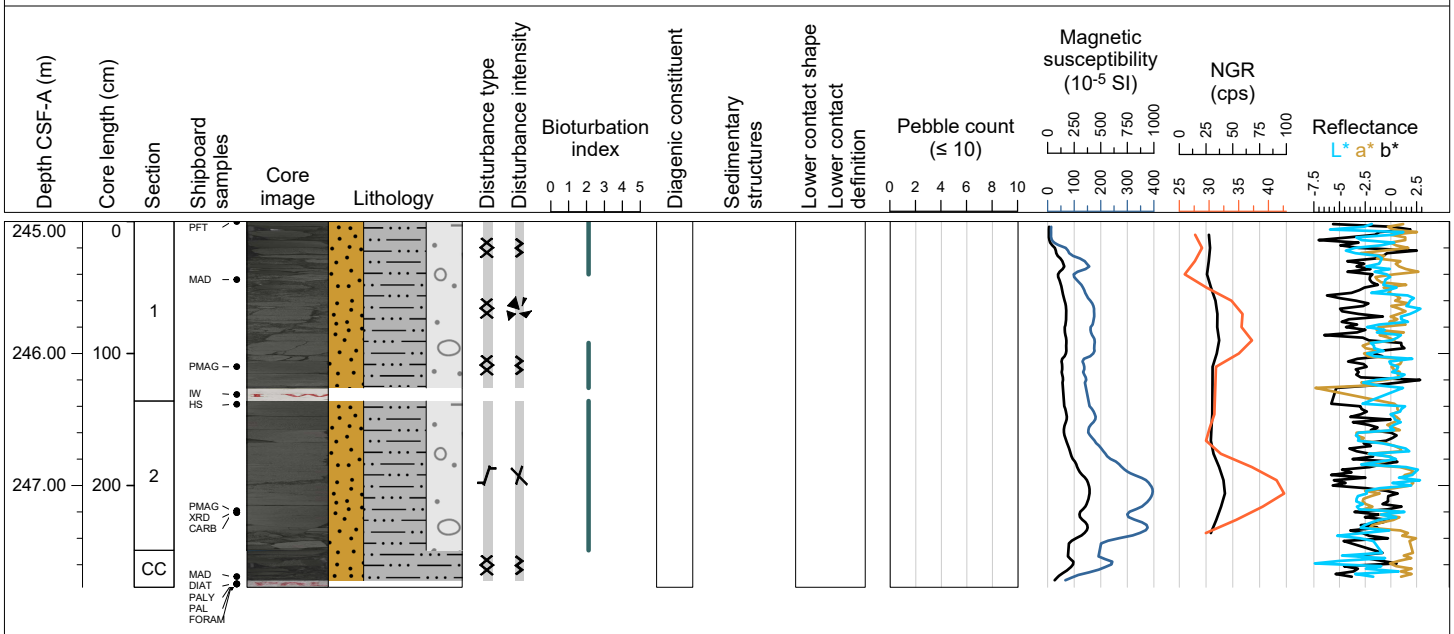
Hole 400-U1608A Core 27R, Interval 235.3-240.56 m (CSF-A)

Medium greenish grey massive sandy mud with gradational changes to greyish brown muddy sand with both lithologies ranging from dispersed to abundant clasts less than 5 mm. In Section 3 there is a 20 cm gneiss clast. Bioturbation, where present, is typically faint and burrows are filled with grey to black mud. In Section 3 there is a calcareous mud interval.



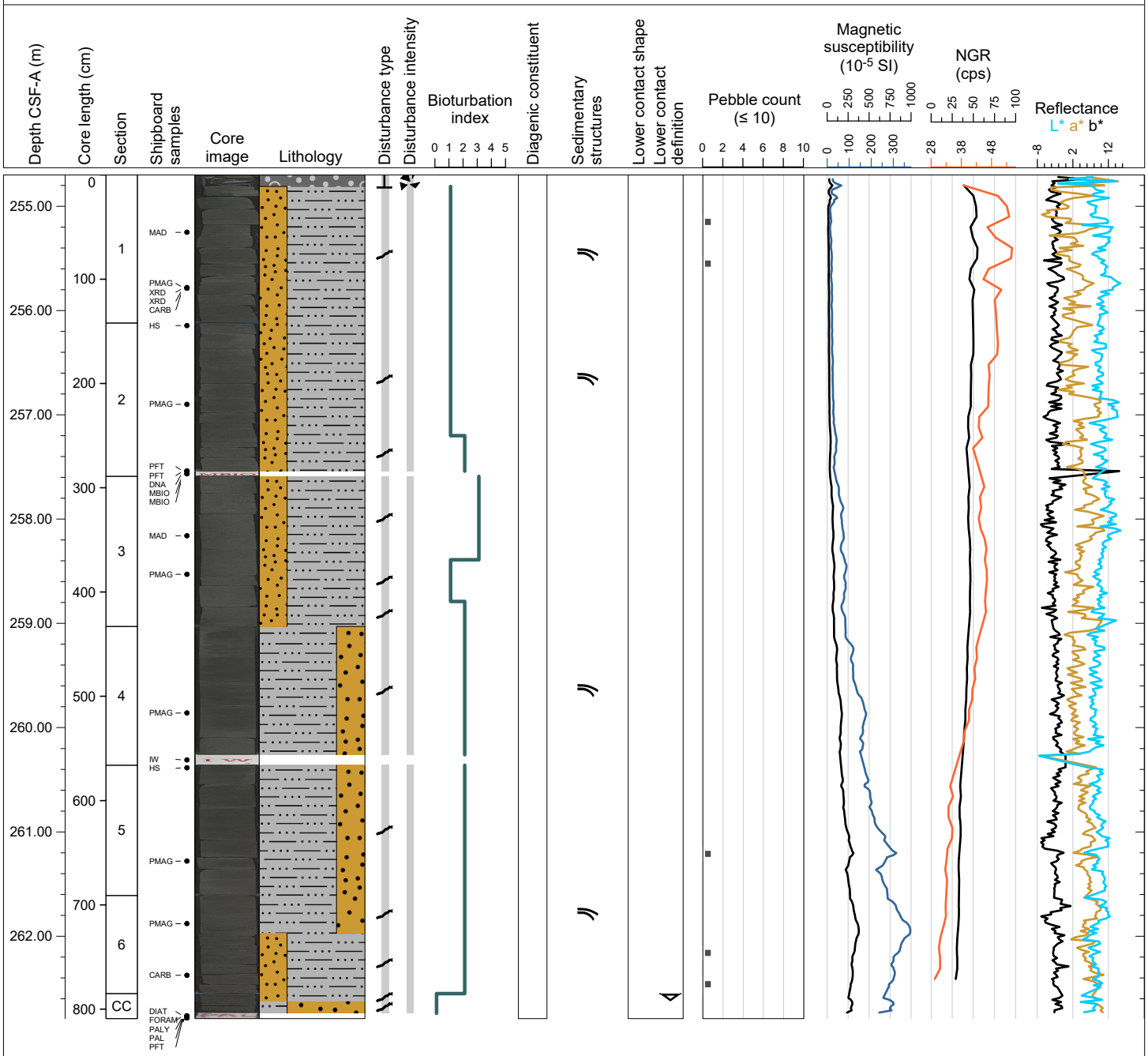
Hole 400-U1608A Core 28R, Interval 245.0-247.77 m (CSF-A)

Medium greenish grey sandy mud with dispersed clast. Strong to severe drilling disturbance; therefore, bioturbation could not be characterized in the entire Section 1.



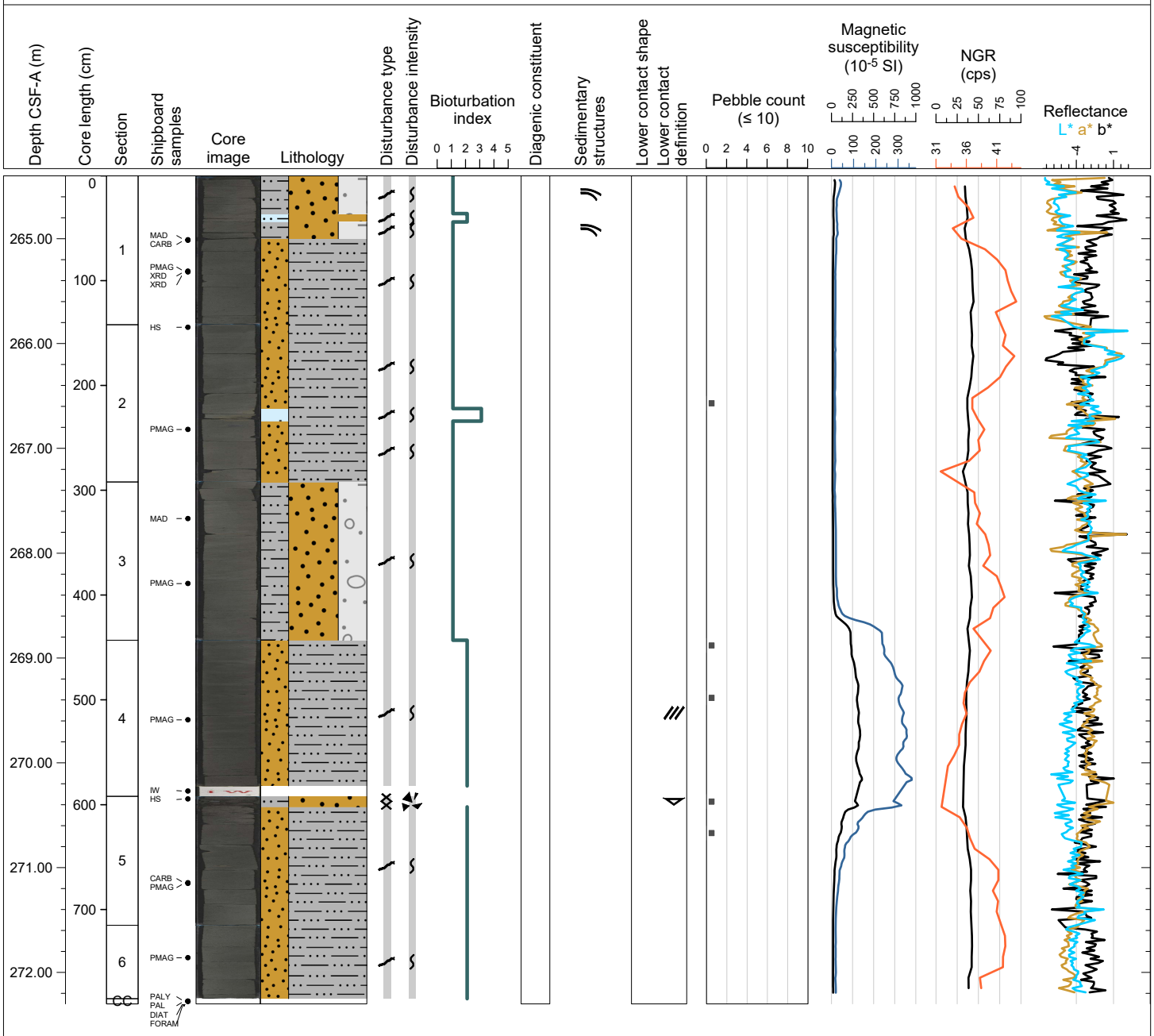
Hole 400-U1608A Core 29R, Interval 254.7-262.79 m (CSF-A)

Medium greenish grey mud with sand, sandy mud, and muddy sand. Bioturbation expressed as mm-scale burrows filled with greyish brown mud. Faint stratification evident where sand is concentrated along laminae. Rare fragments of thin-shelled bivalves occur in Section 1 (90 and 138 cm) and Section 4 at 82 cm. Clasts > 5 mm are mainly cm-scale black clasts with irregular shapes. One rounded granite pebble (1 cm) in Section 6.



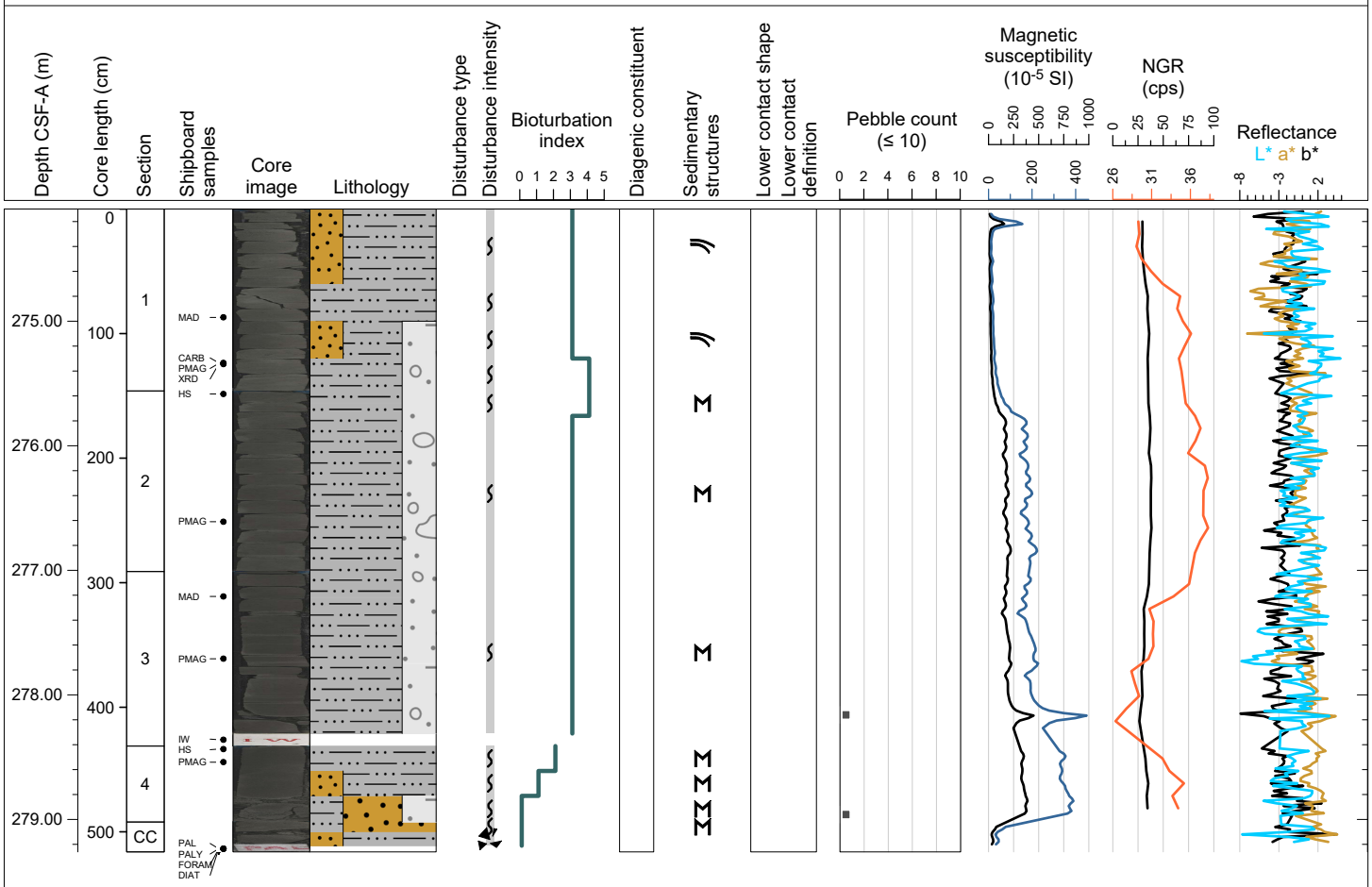
Hole 400-U1608A Core 30R, Interval 264.4-272.3 m (CSF-A)

Medium greenish grey sandy mud and muddy sand with one interval of coarser brown muddy sand. Bioturbation expressed as mm-scale burrows filled with greyish mud, calcareous mud and sand. Faint stratification evident where sand is concentrated along laminae. Calcareous blebs present in Section 5. Most clasts are smaller than 5 mm with one angular clast upwards of 2.5 cm in diameter.



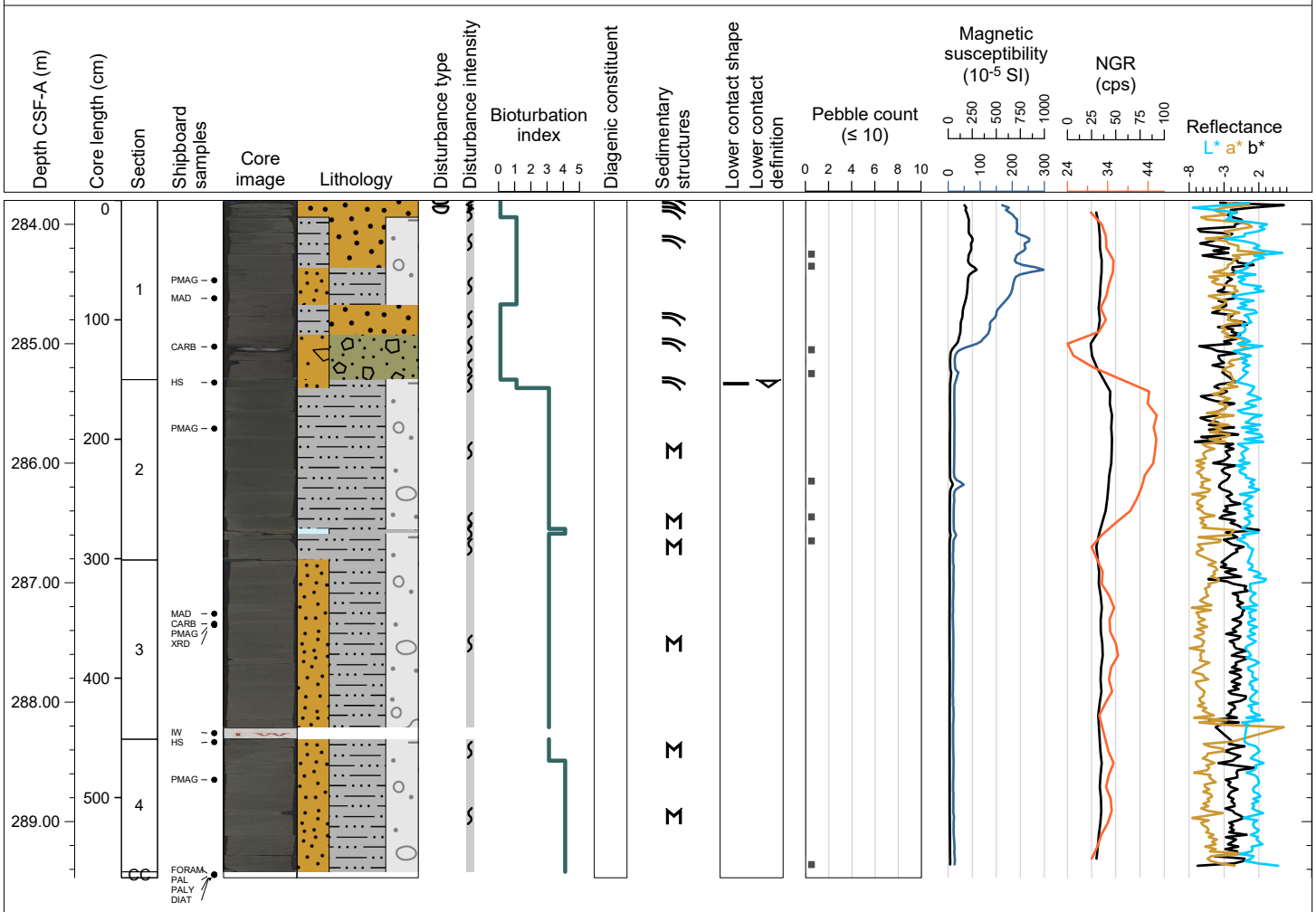
Hole 400-U1608A Core 31R, Interval 274.1-279.26 m (CSF-A)

Greenish grey and dark greenish grey bioturbated mud and sandy mud with dispersed clasts. Stratification is present in Section 1. One bed of sand is present in Section 4 and the core catcher. Clasts consist of black mafic and intermediate igneous lithologies.



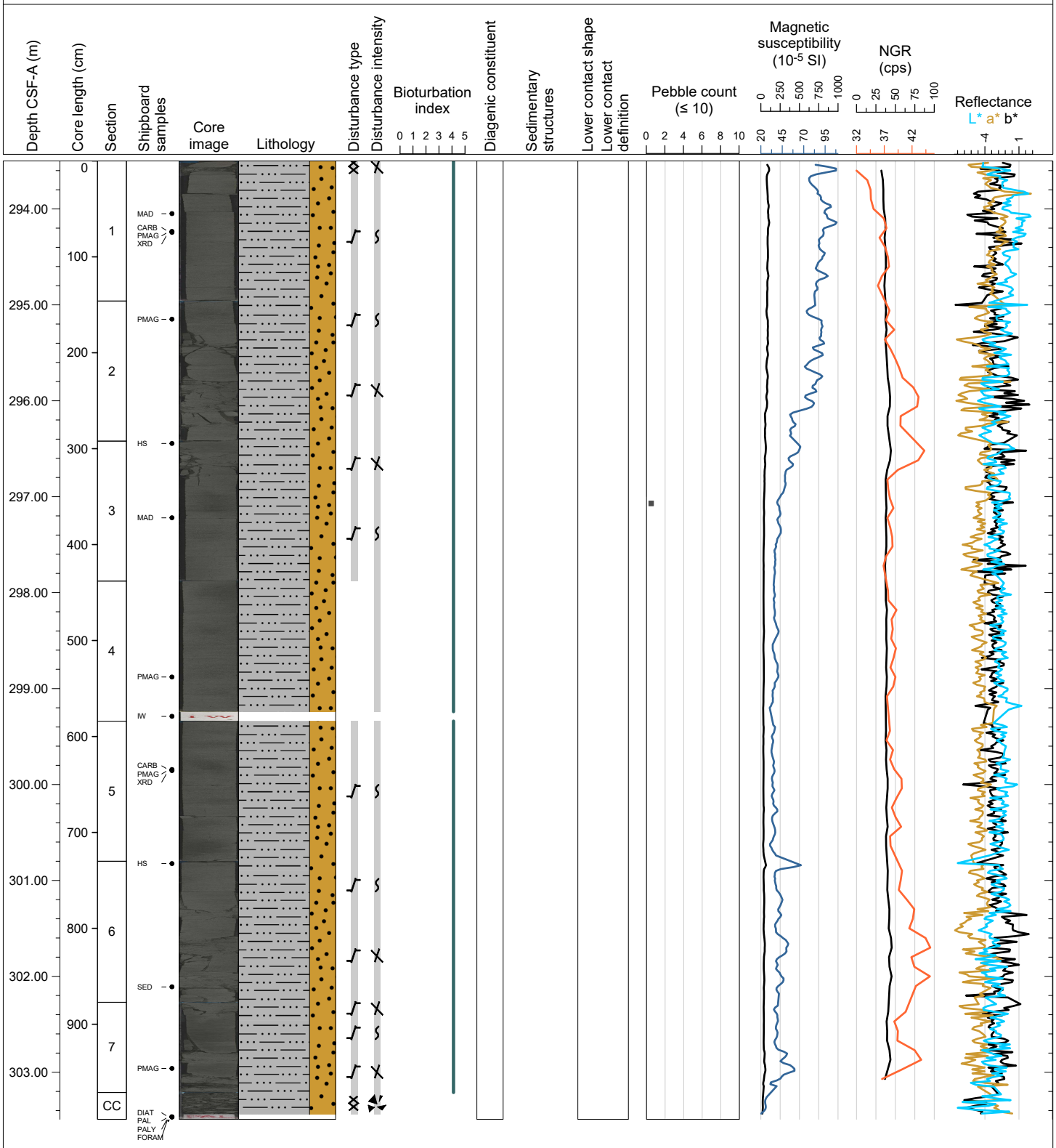
Hole 400-U1608A Core 32R, Interval 283.8-289.47 m (CSF-A)

Dark greenish grey stratified sand with dispersed clasts and clast-poor sandy diamicton overlying greenish grey bioturbated mud with dispersed clasts. Clasts consist of black mafic volcanic and metamorphic lithologies. A bioturbated calcareous mud is found in Section 2. Rare shell fragments occur in Sections 3 and 4.



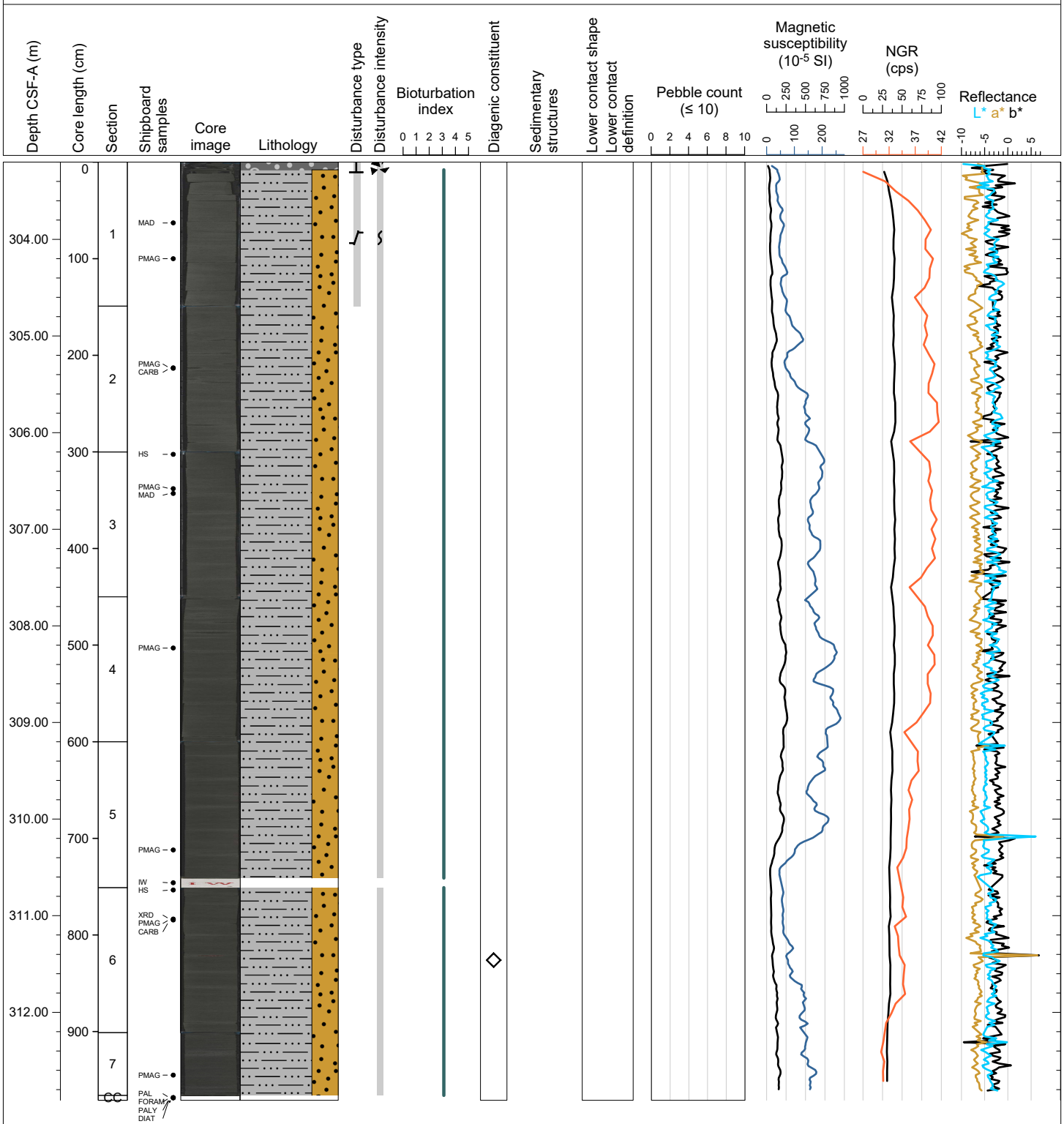
Hole 400-U1608A Core 33R, Interval 293.5-303.49 m (CSF-A)

Dark greenish grey bioturbated mud with sand. The sand is dispersed and dominantly very fine- to fine-grained with sparse coarser grains and granules. There is one clast >5 mm in size. Discrete burrows are mm- to cm-scale in size and filled with dark grey to black material.



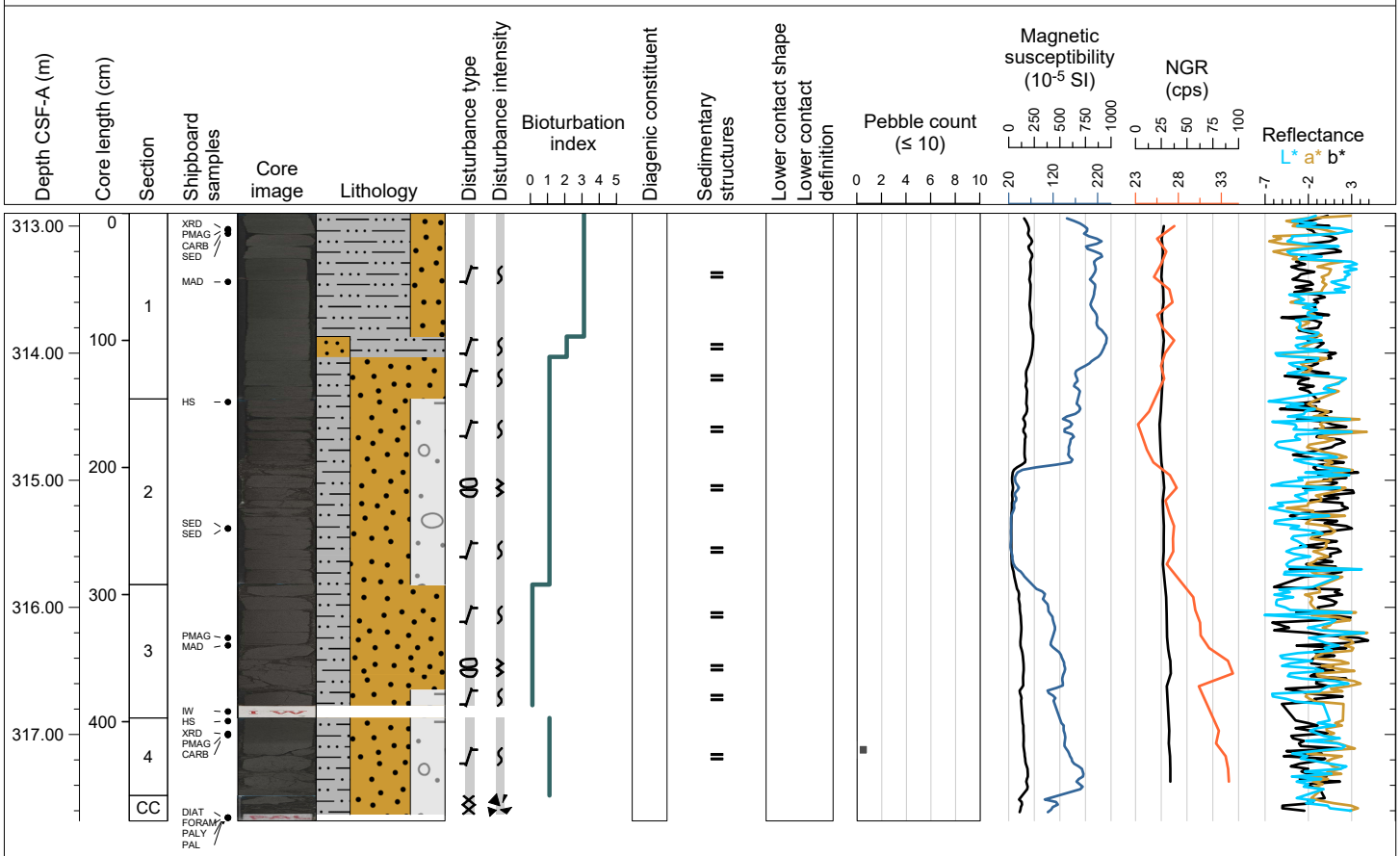
Hole 400-U1608A Core 34R, Interval 303.2-312.91 m (CSF-A)

Dark greenish grey bioturbated mud with sand. The sand is dispersed and dominated by sparse coarser grains and granules. Bioturbation is present with small round burrows filled with dark grey to black mud. The core is mostly undisturbed.



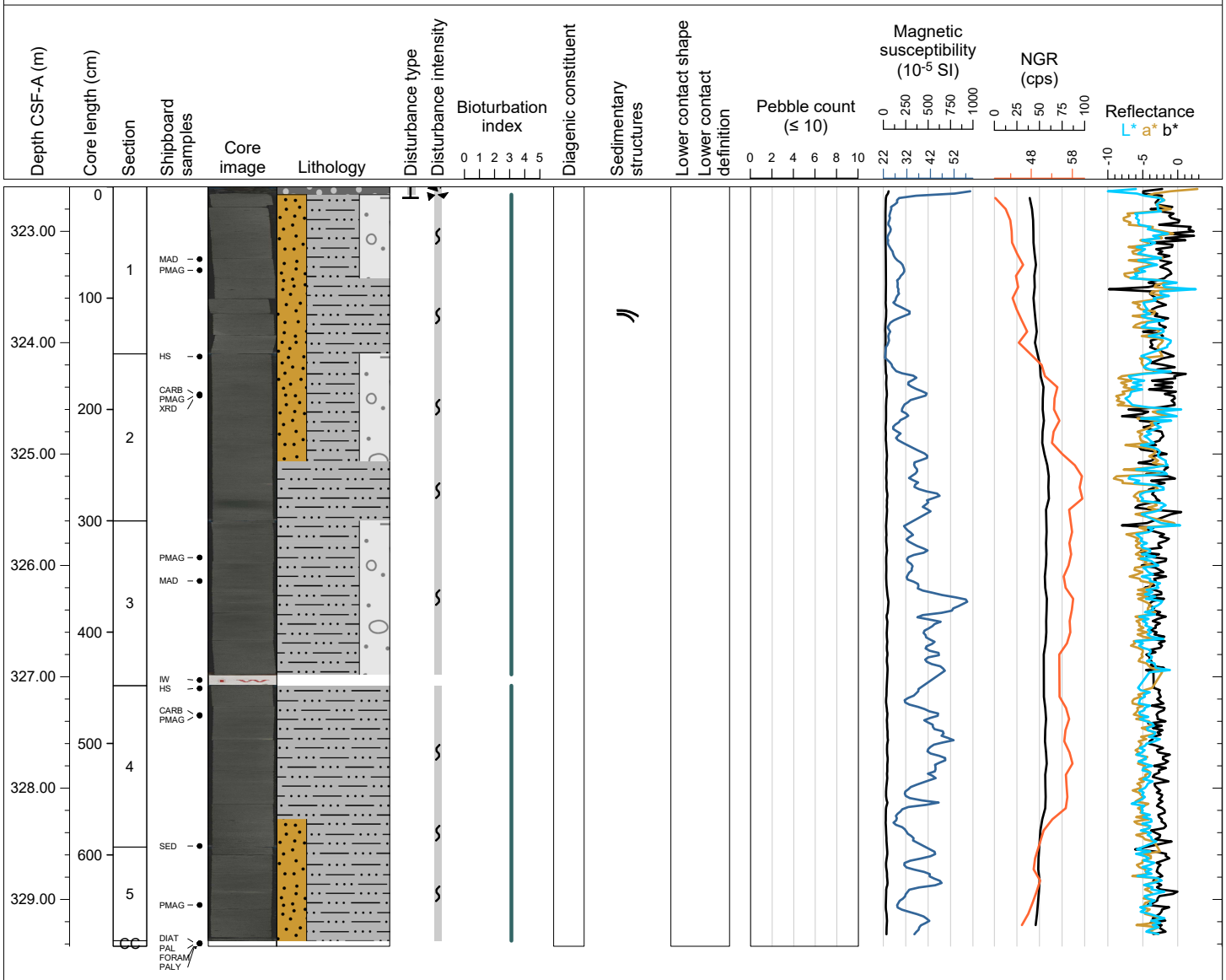
Hole 400-U1608A Core 35R, Interval 312.9-317.68 m (CSF-A)

Dark greyish yellow, bioturbated mud with sand and black-colored burrows at the top of Section 1 gradually coarsens downward into dark brown, unbioturbated, subtly laminated muddy sand with dispersed clasts at the bottom of Section 1. The dark brown muddy sand (with and without dispersed clasts) persists throughout the rest of the core. The composition of the sand and mud throughout the entire core is silt and very fine to fine sand. The dispersed grains and clasts are granule to very small pebble-sized, and are very rare but present throughout most of the core.



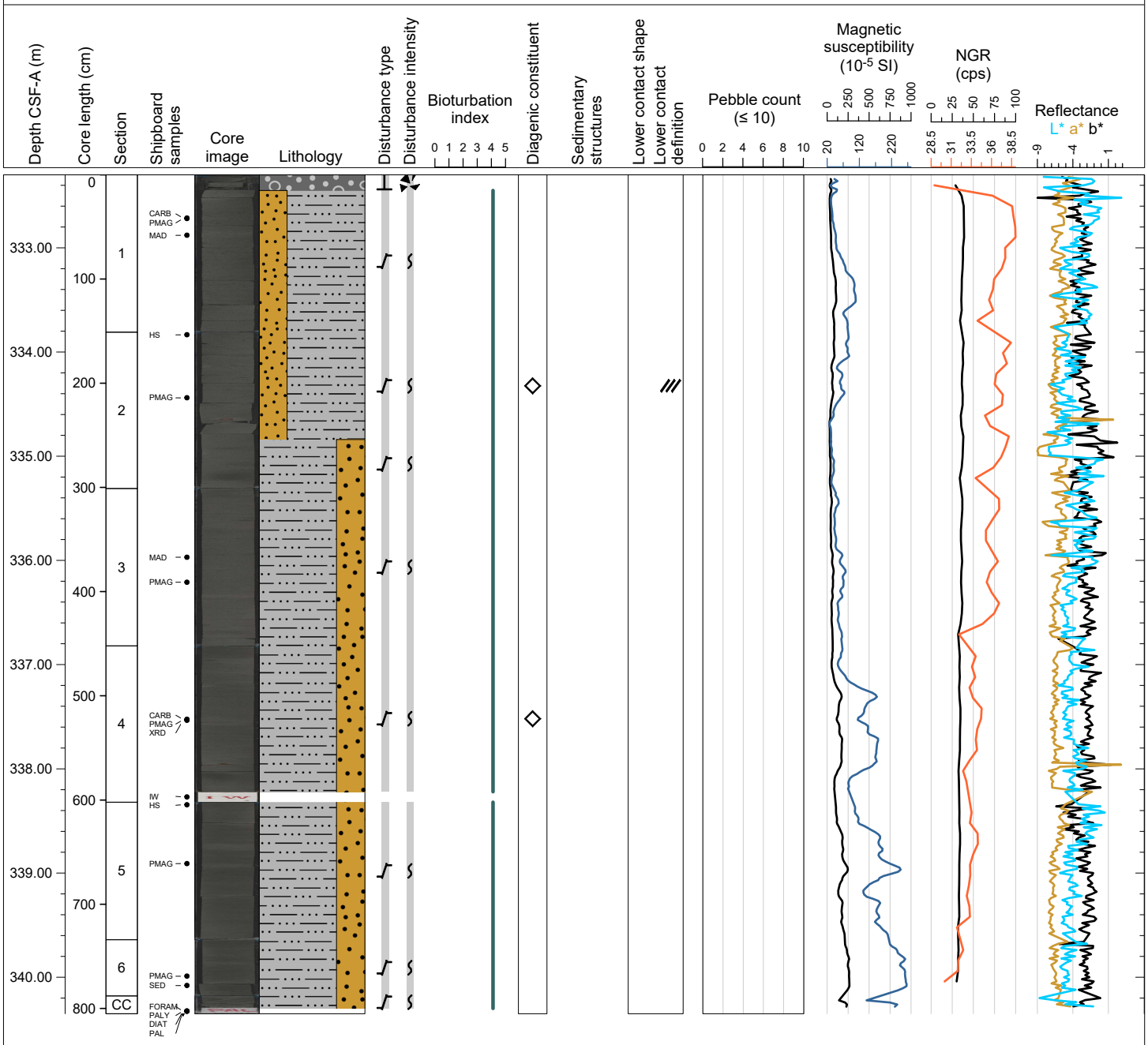
Hole 400-U1608A Core 36R, Interval 322.6-329.42 m (CSF-A)

Greenish grey bioturbated sandy mud and mud with dispersed clasts. Clasts are granule size. Rare shell fragments and yellowish calcareous blebs and burrow fills are present throughout.



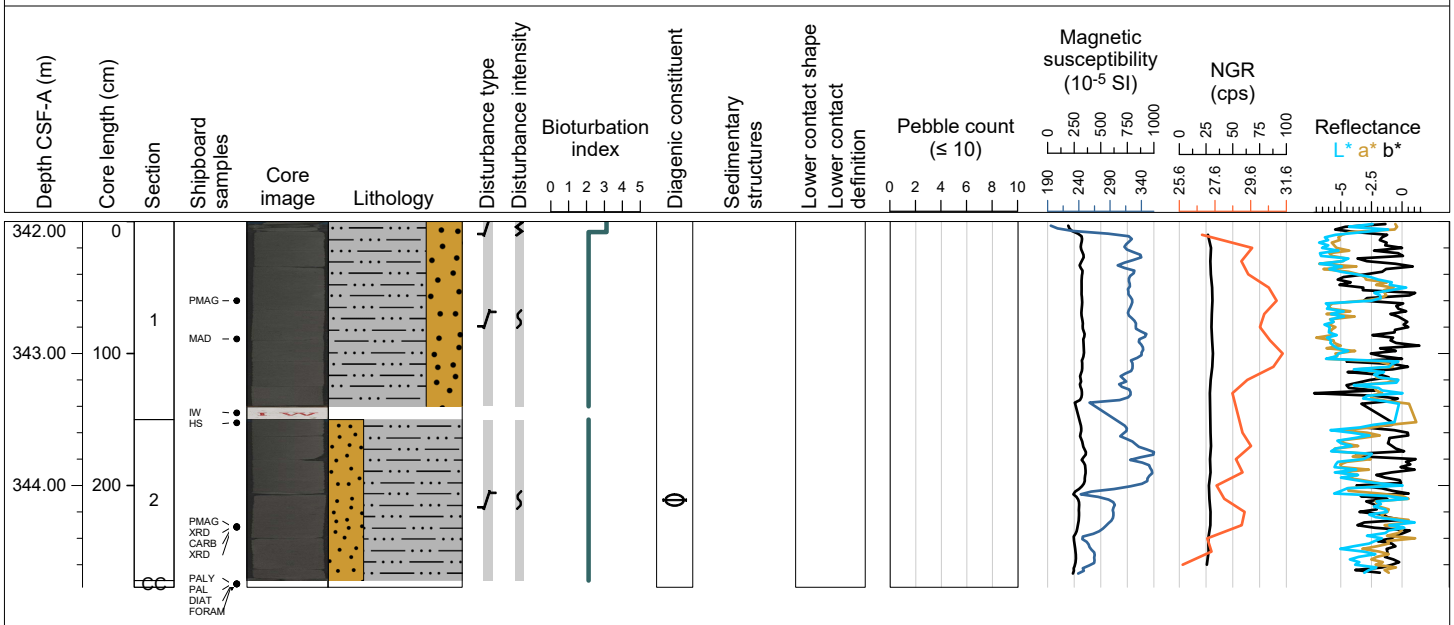
Hole 400-U1608A Core 37R, Interval 332.3-340.35 m (CSF-A)

Dark greenish grey bioturbated mud with sand and sandy mud. Sand that is present is dominantly very fine- to fine-grained, with some medium-grained observed in sparse clusters. Intervals of lighter color (as background of burrow fill) likely calcareous. There are two ikaite/glendonite pseudomorph nodules (Sections 2 and 4).



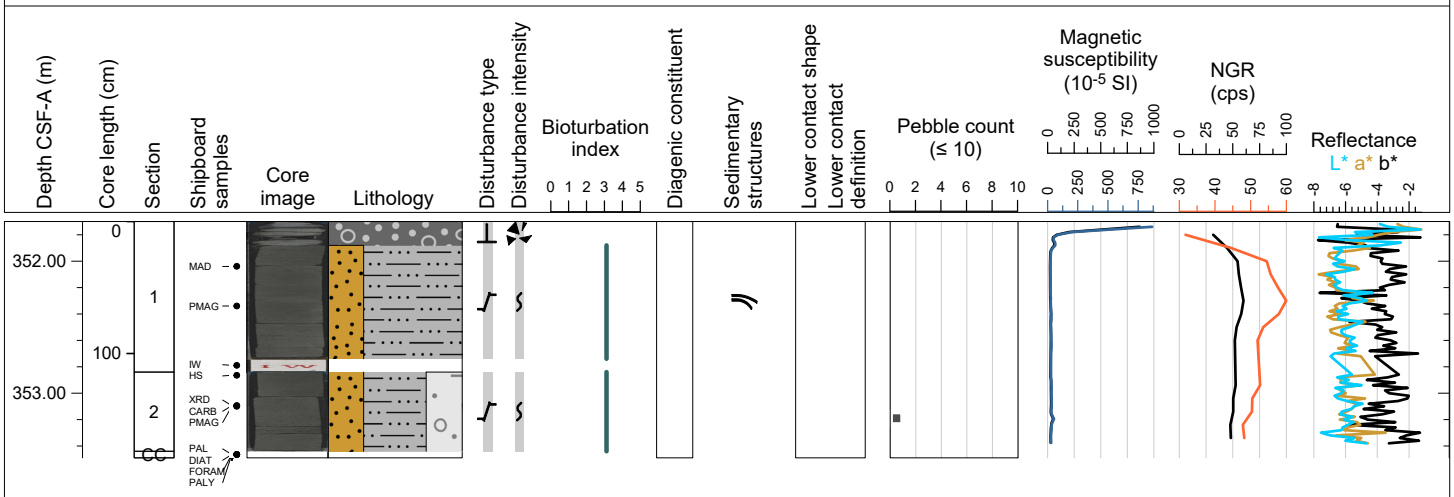
Hole 400-U1608A Core 38R, Interval 342.0-344.77 m (CSF-A)

Dark greenish grey bioturbated mud with sand and greyish brown sandy mud with coarser grains. The drilling disturbance is slight.



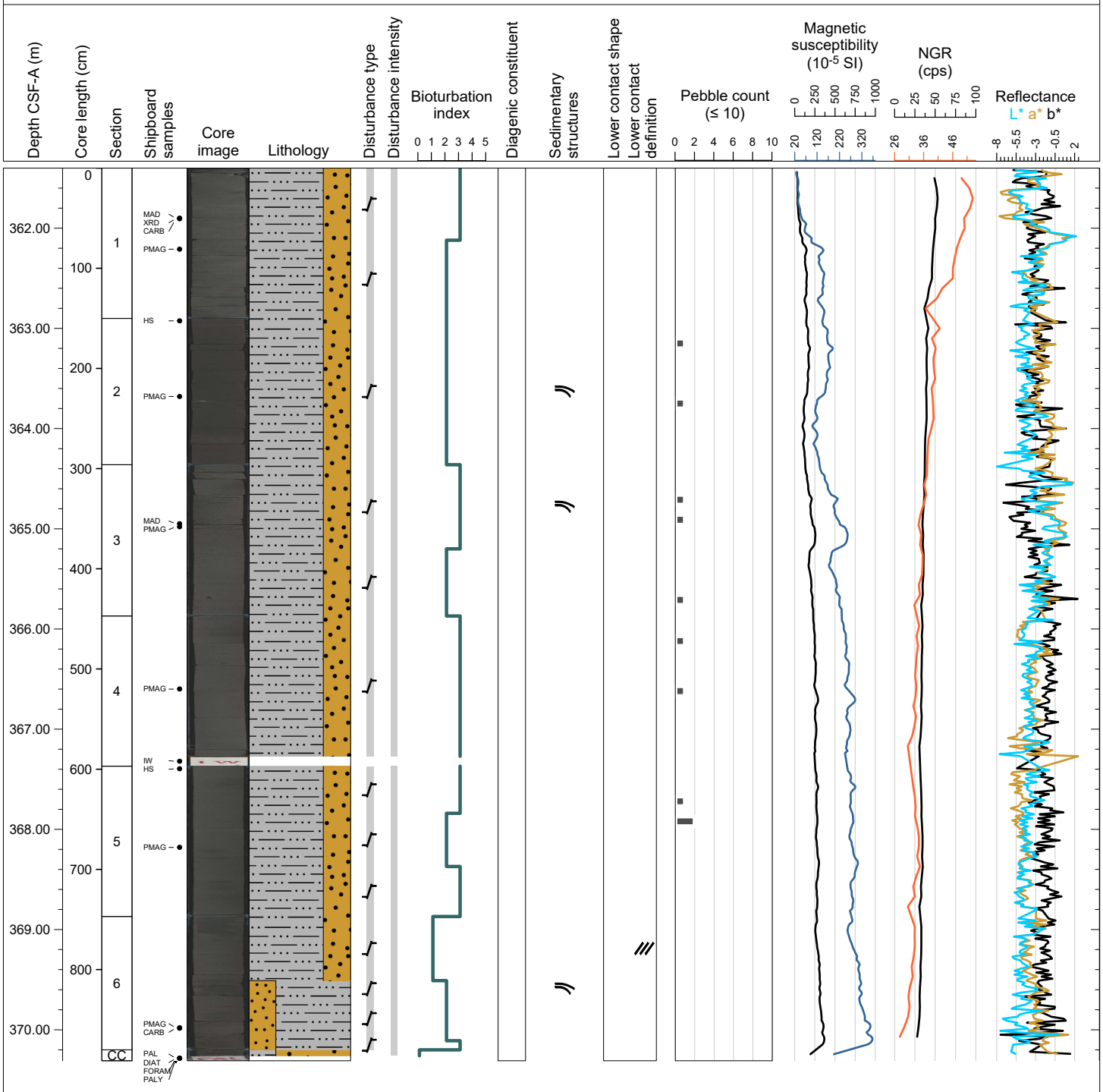
Hole 400-U1608A Core 39R, Interval 351.7-353.49 m (CSF-A)

Medium greenish grey bioturbated sandy mud with sand pockets of coarser grains and granules. Weak sand laminae are observed at the top of the core. The drilling disturbance is slight.



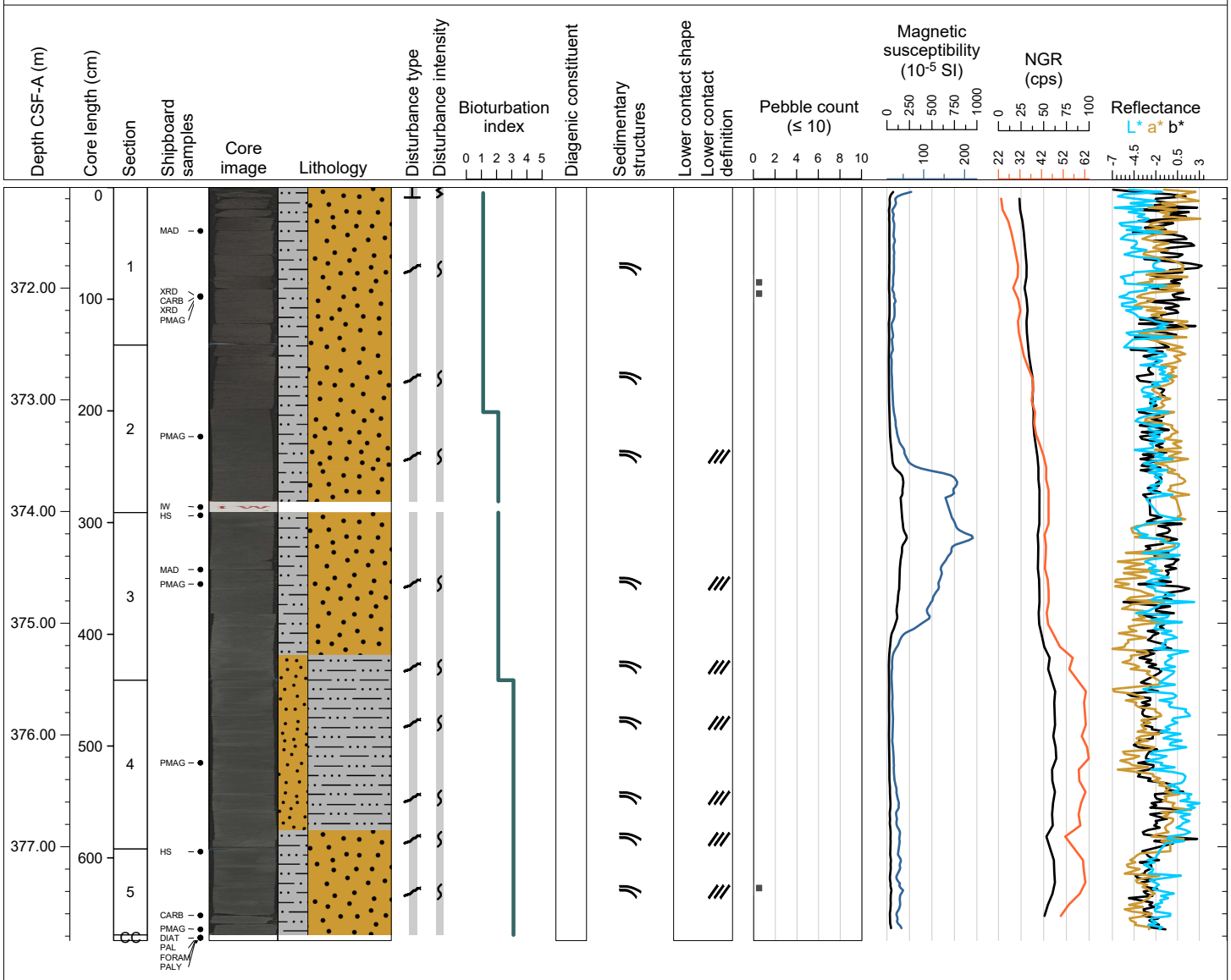
Hole 400-U1608A Core 40R, Interval 361.4-370.31 m (CSF-A)

Medium green sand with mud with discontinuous sand laminae and areas of sand concentrated by bioturbation. A few granule-grade clasts, which are mainly black, fine-grained, and well-rounded. Bioturbation is mainly expressed as mm-scale burrows filled with greyish mud. In Section 4, a high proportion of burrows are filled with light brown, calcareous mud. A gradual downward transition to sandy mud and muddy sand occurs below 64 cm in Section 6 and into Section 7.



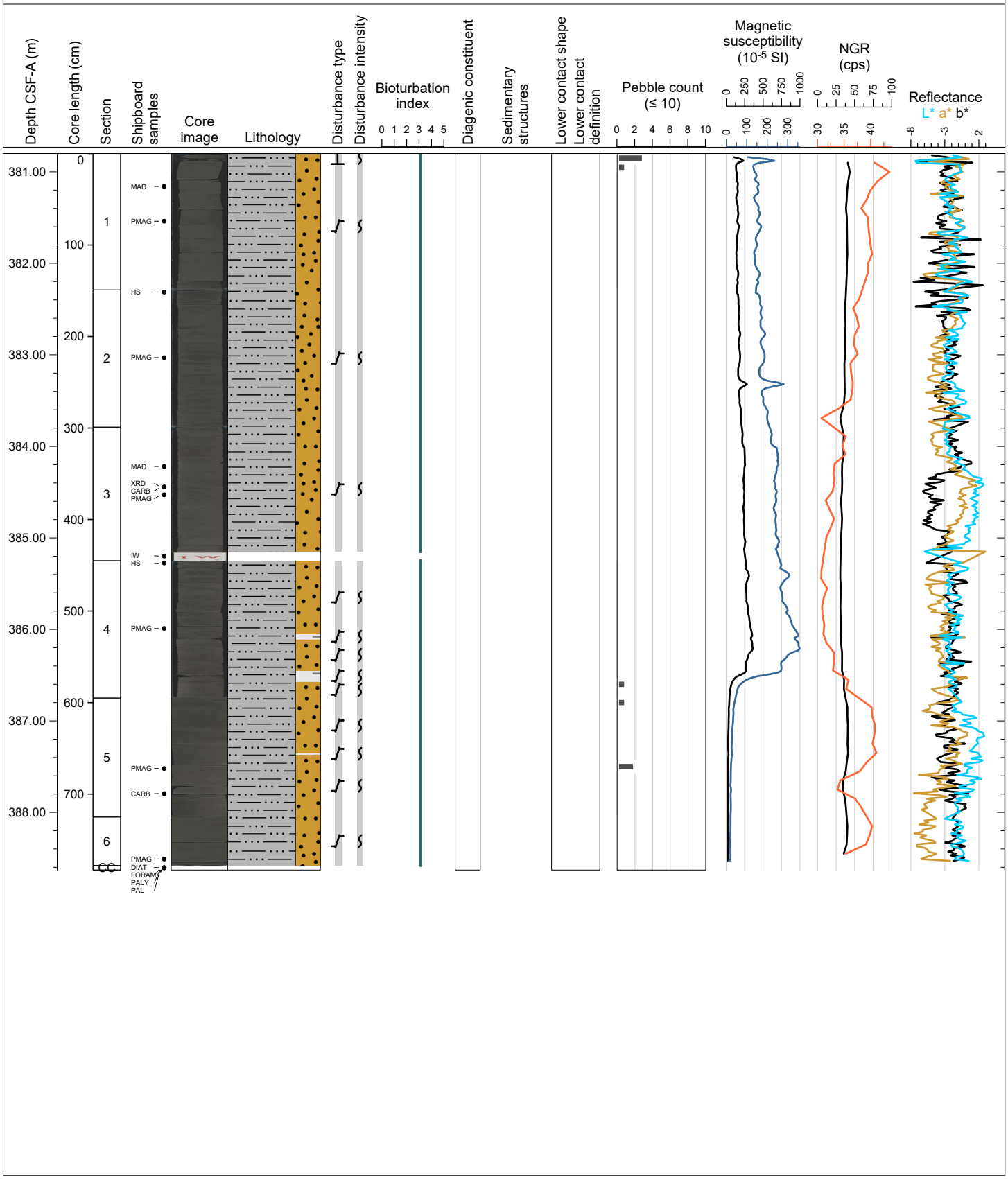
Hole 400-U1608A Core 41R, Interval 371.1-377.84 m (CSF-A)

Dark greenish grey stratified/weakly laminated muddy sand to dark greenish grey sandy mud with gradational change in color, sand content, and bioturbation downcore. Notable presence of some black filled burrows that may be iron sulfide. Burrows are also found to be lined with grey material. Some rare shell fragments in Section 3 and 4. One clast 2.5 cm in diameter that may be a granite or gneiss in Section 1.



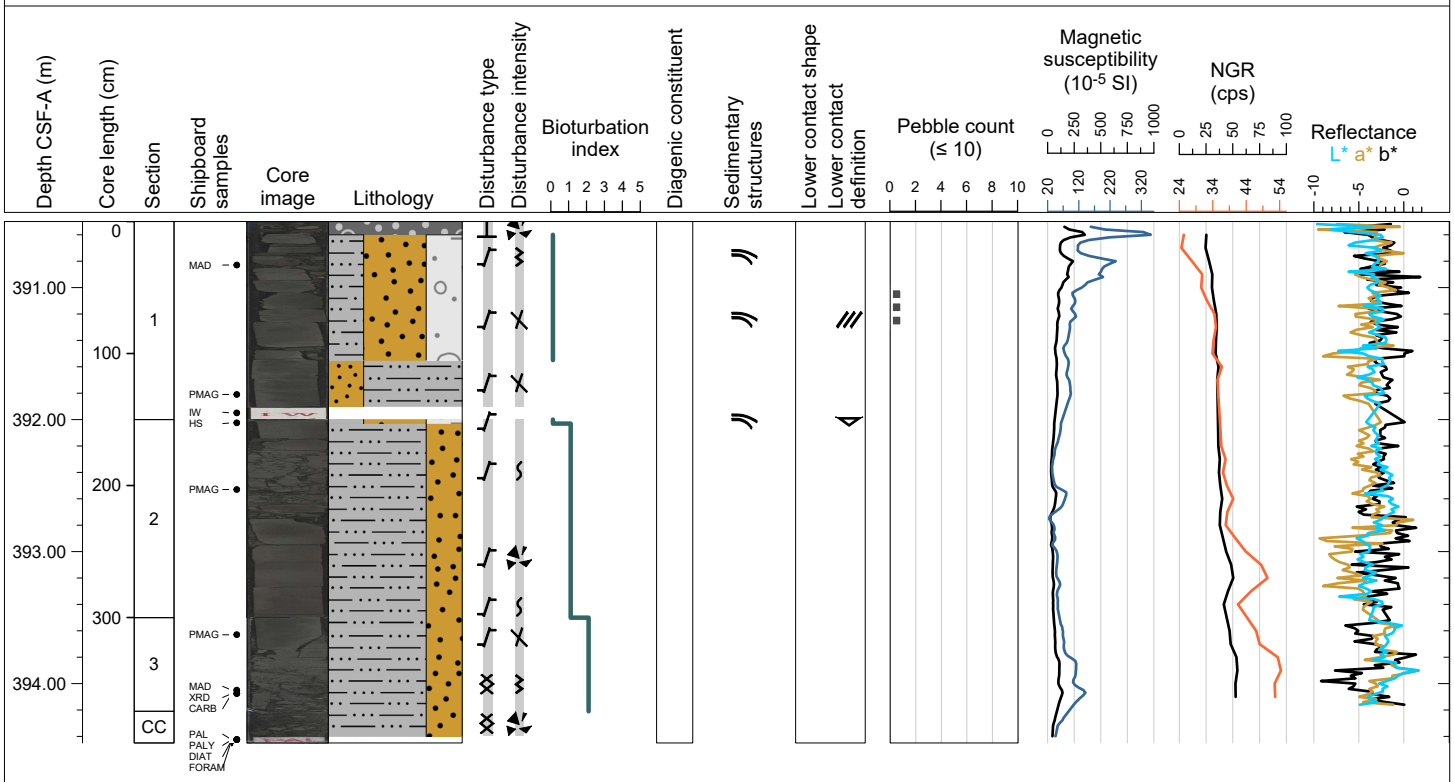
Hole 400-U1608A Core 42R, Interval 380.8-388.63 m (CSF-A)

Greenish grey to greyish green mud with coarse sand. There a few instances of coarse sand laminae in Section 1 and 4, pockets of fine granules (2-5 mm) and rare sub-rounded clasts (>5 mm) are also located throughout. Calcareous clasts, blebs and burrows are located in section 4, 5 and 6. Bioturbation is common as 1-2 cm horizontal burrows.



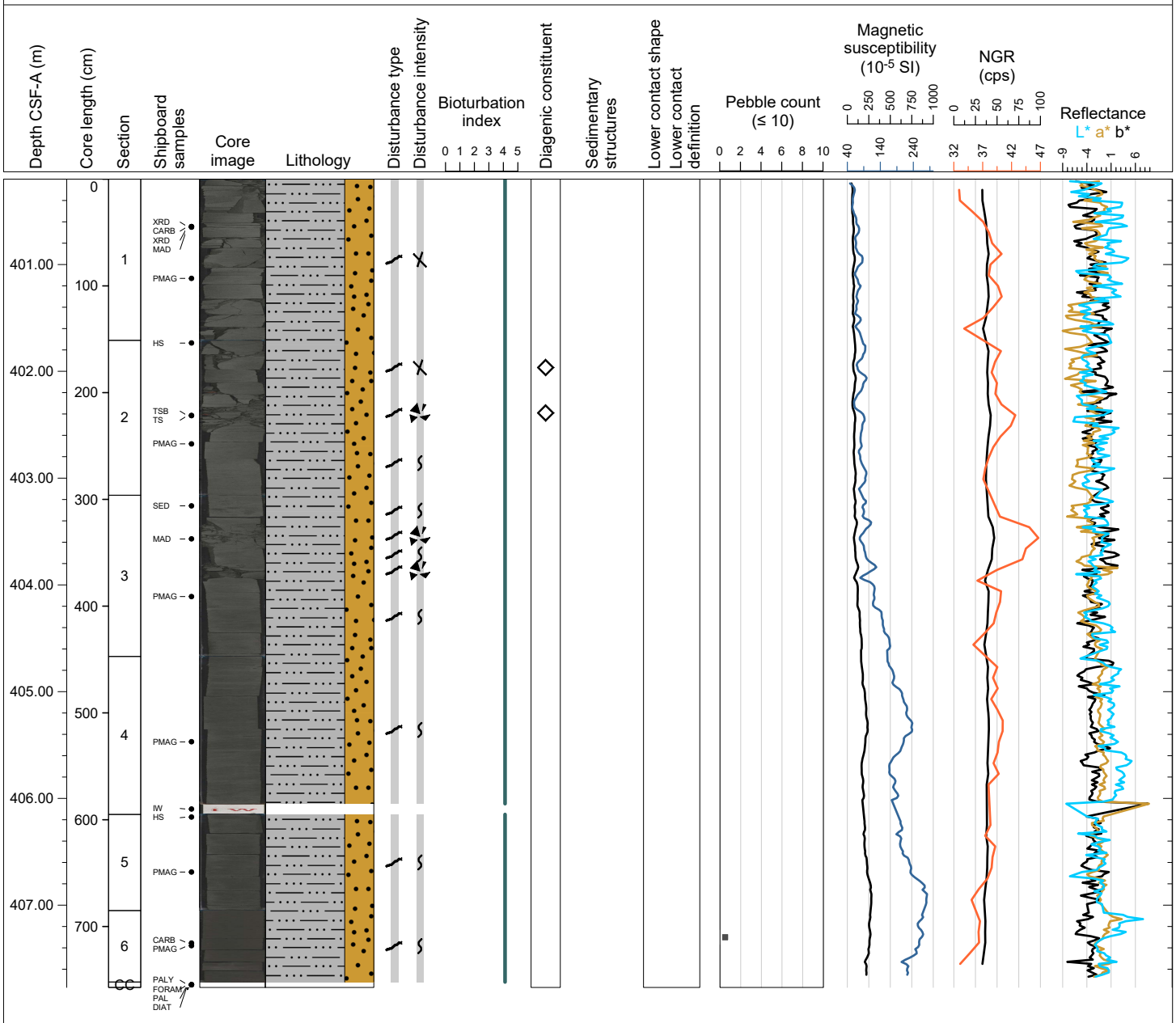
Hole 400-U1608A Core 43R, Interval 390.5-394.45 m (CSF-A)

Greenish grey bioturbated, muddy very fine sand with dispersed clasts, sandy mud, and mud with sand. The overall downcore trend is gradual fining.



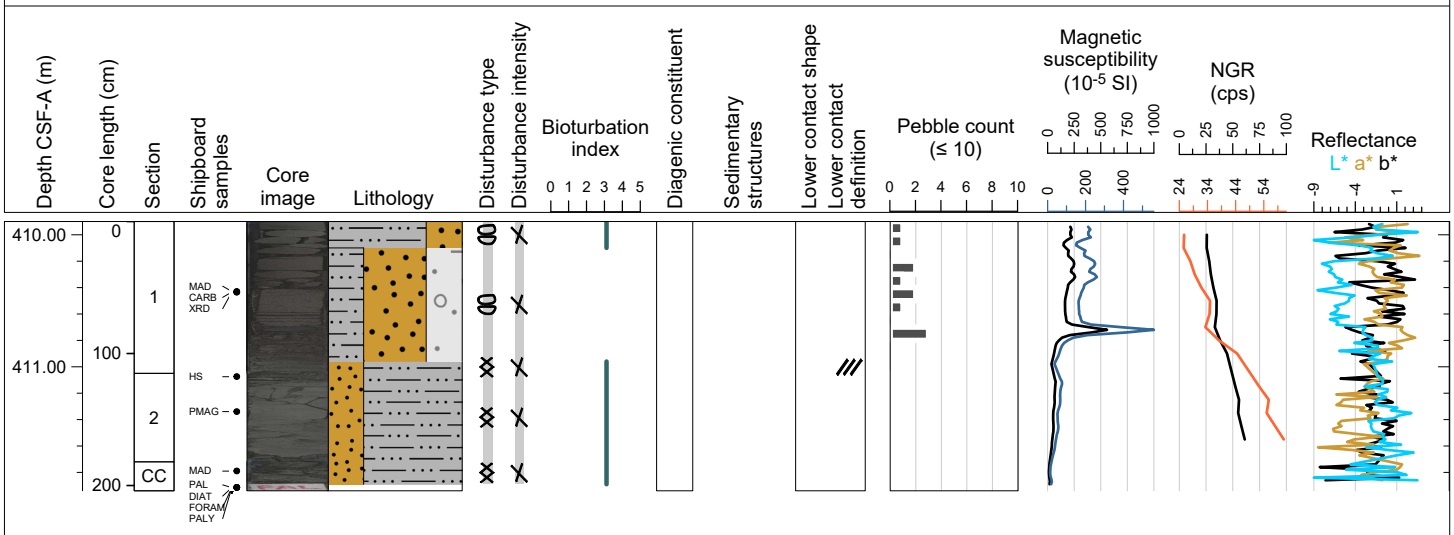
Hole 400-U1608A Core 44R, Interval 400.2-407.77 m (CSF-A)

Medium greyish green to dark greyish green mud with sand with strong bioturbation throughout. Burrows are grey, filled in with iron sulfide, or are pyritized. Pseudomorphs after ikaite were found in Section 2. Some intervals of severe drilling disturbance.



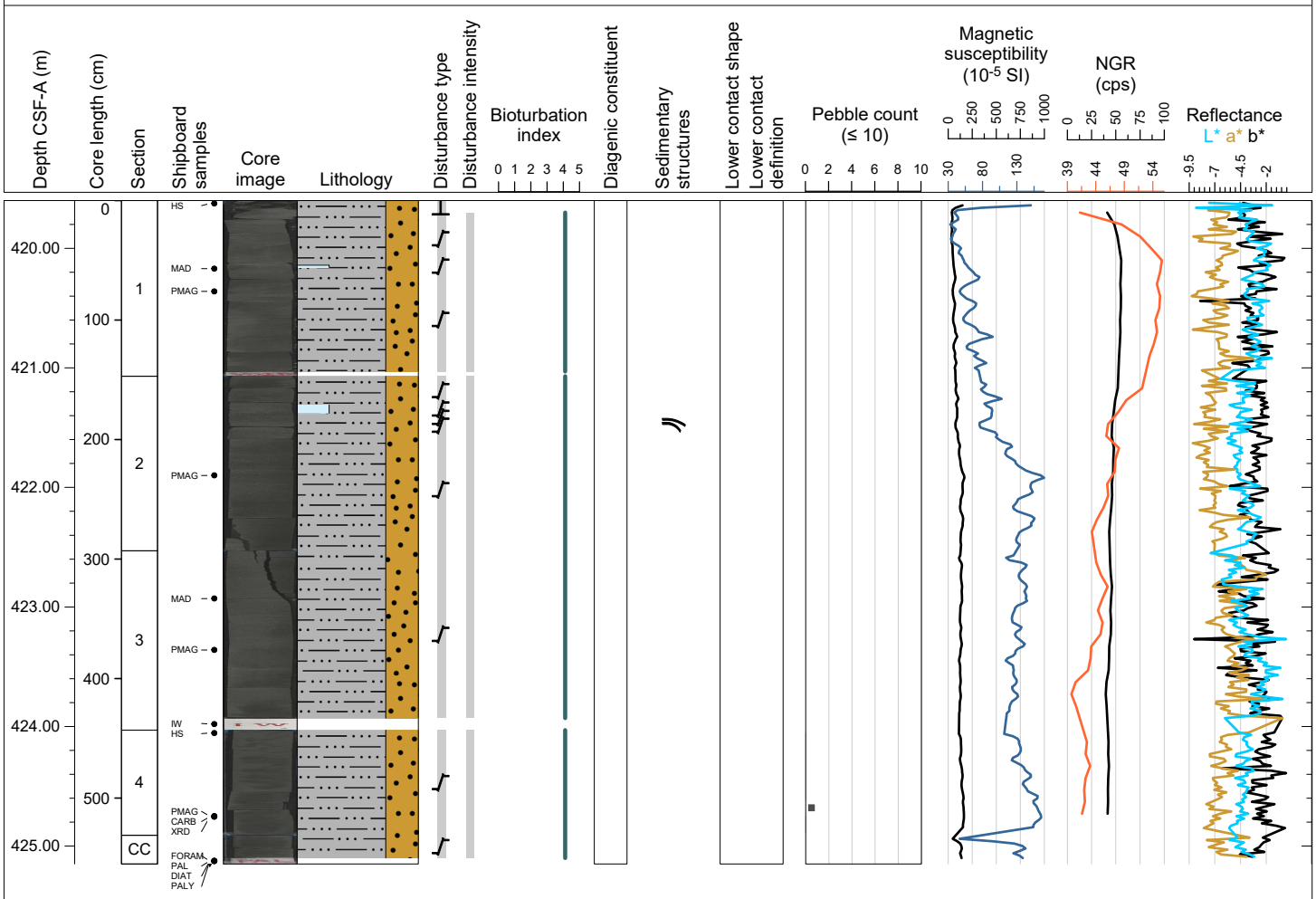
Hole 400-U1608A Core 45R, Interval 409.9-411.94 m (CSF-A)

Greyish green mud with sand, moderately bioturbated overlying (obscured contact) with dark brown muddy sand with dispersed clasts (2-5mm) and one large well rounded fine grained black pebble (40 mm). At the base of Section 1, the muddy sand graded into bioturbated greenish grey sandy mud.



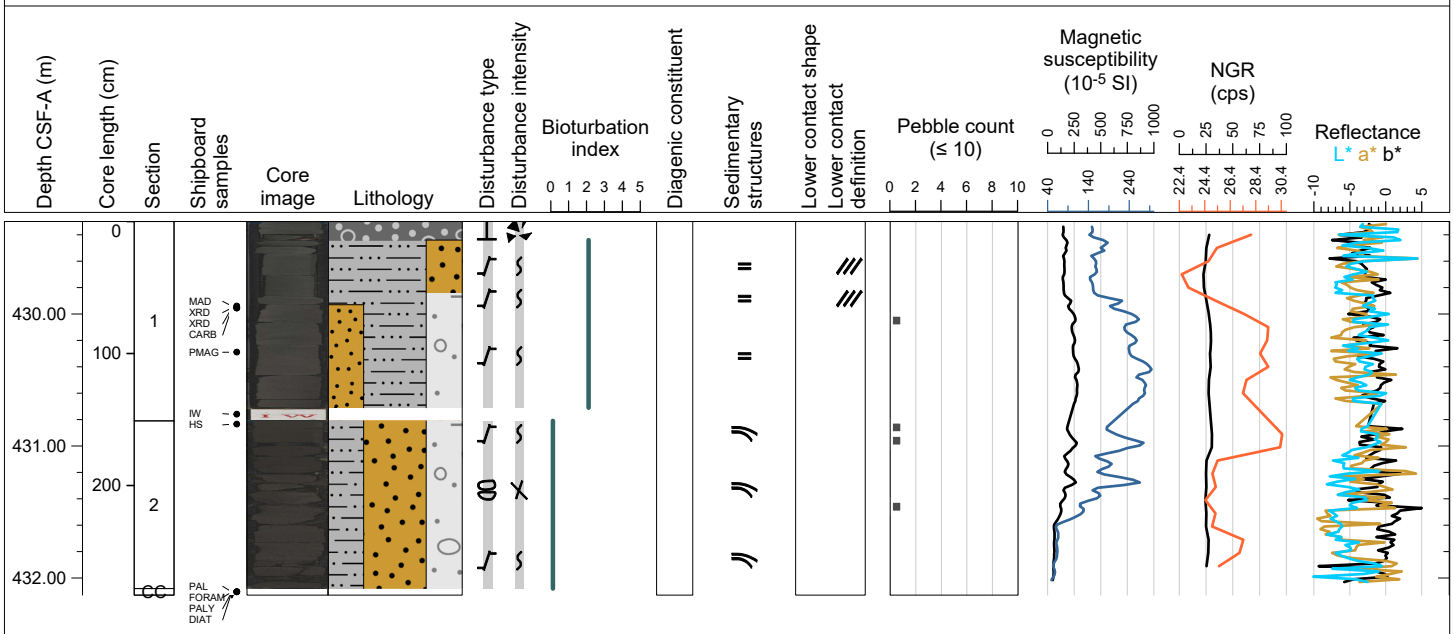
Hole 400-U1608A Core 46R, Interval 419.6-425.15 m (CSF-A)

Greenish grey mud with coarse sand, that is bioturbated. Contains calcareous blebs and smears in Section 1 and 2.



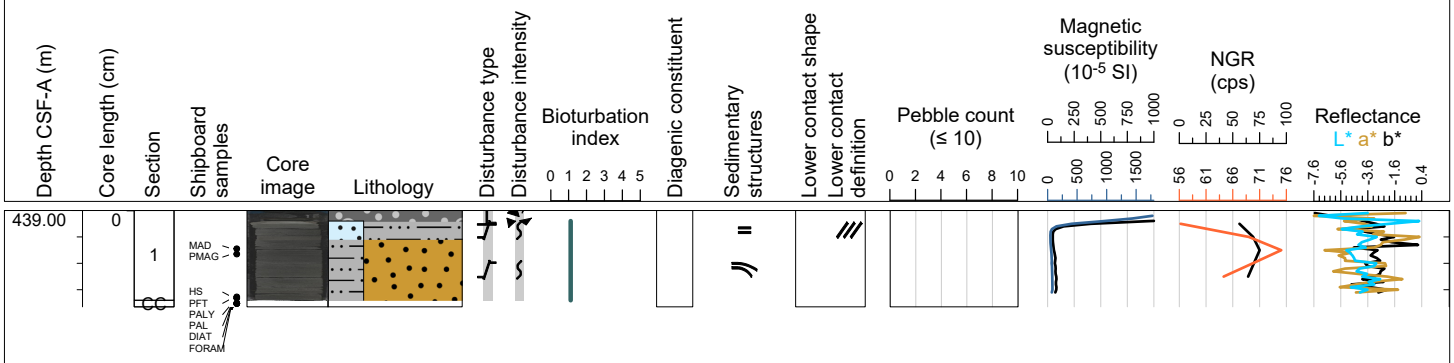
Hole 400-U1608A Core 47R, Interval 429.3-432.13 m (CSF-A)

Dark grey, bioturbated mud with sand at the top of Section 1 and coarsening downward through the rest of Section 1 before becoming dark brown, unbioturbated muddy sand in the top of Section 2. Dispersed clasts in the form of very coarse sand, granules, and rare pebbles are present throughout. All sediments in this core are subtly stratified.



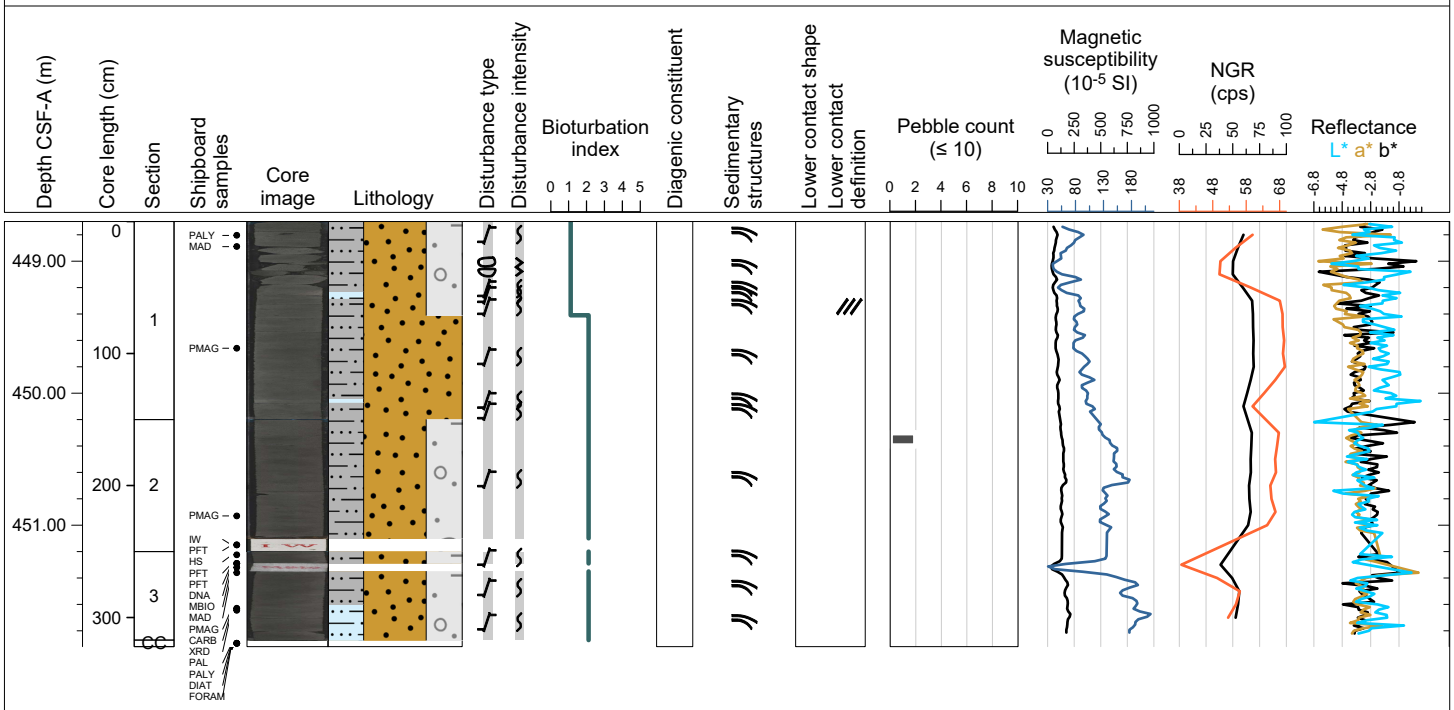
Hole 400-U1608A Core 48R, Interval 439.0-439.73 m (CSF-A)

Medium grey, weakly stratified and bioturbated muddy sand. The weak stratification in this core is arranged into alternating slightly more sandy and slight more muddy thick laminae. In the upper 22 cm, the muddy intervals are made up of less sandy, calcareous mud. The uppermost portion of this calcareous mud interval is also carbonate cemented.



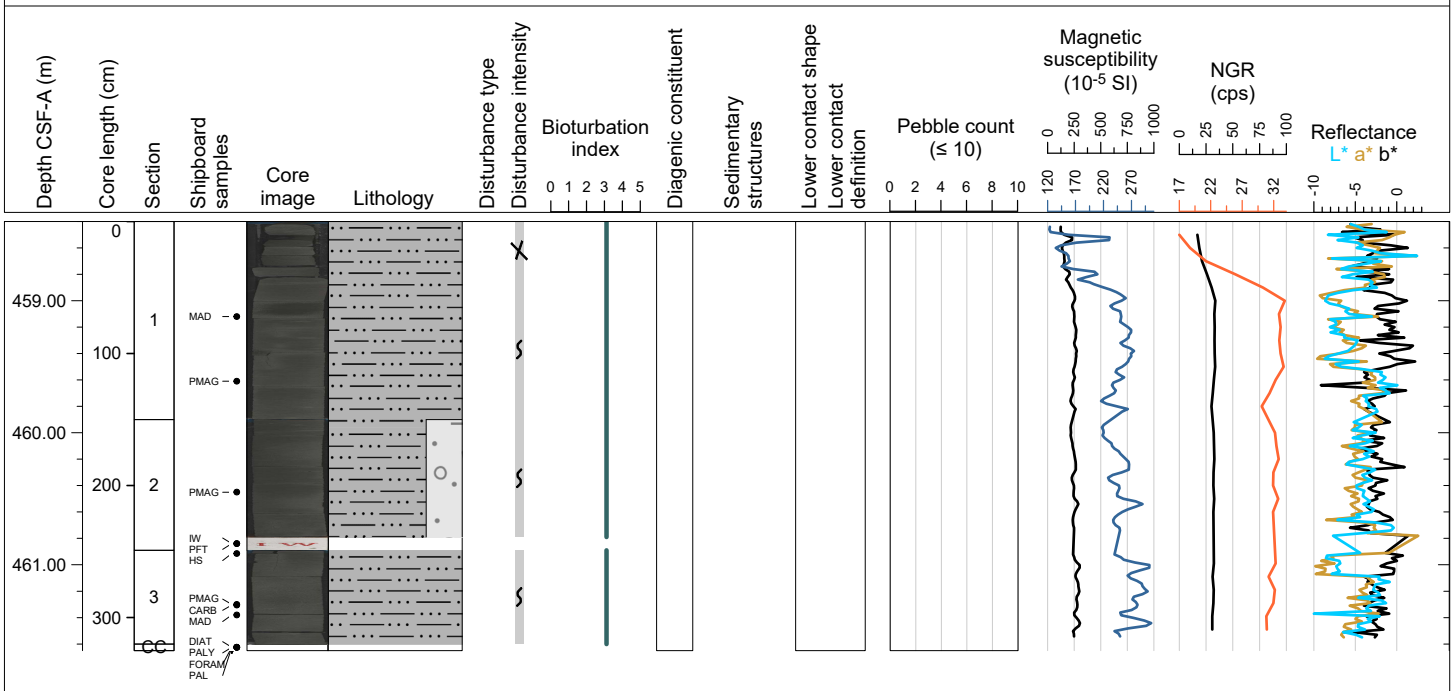
Hole 400-U1608A Core 49R, Interval 448.7-451.92 m (CSF-A)

Medium grey, bioturbated, laminated muddy sand with and without dispersed clasts. Occasionally the mud is calcareous. Dispersed clasts are mostly in the coarse sand to granule size range, with few pebbles. Burrows are occasionally pyritized (bottom of Section 1). There is abundant black-colored organic material at the top of Section 1.



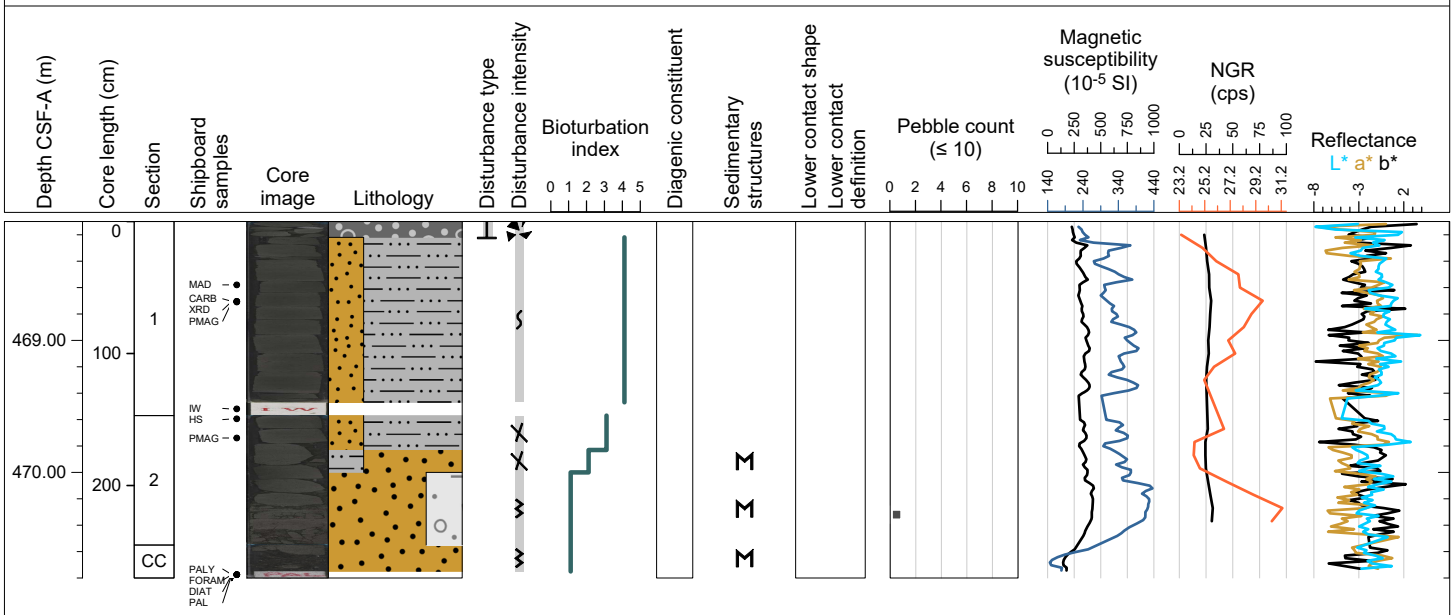
Hole 400-U1608A Core 50R, Interval 458.4-461.65 m (CSF-A)

Dark greenish grey to greenish grey bioturbated mud with dispersed clasts. Granitic and metamorphic granules are observed. Pyritized burrows and yellow calcareous traces are also present.



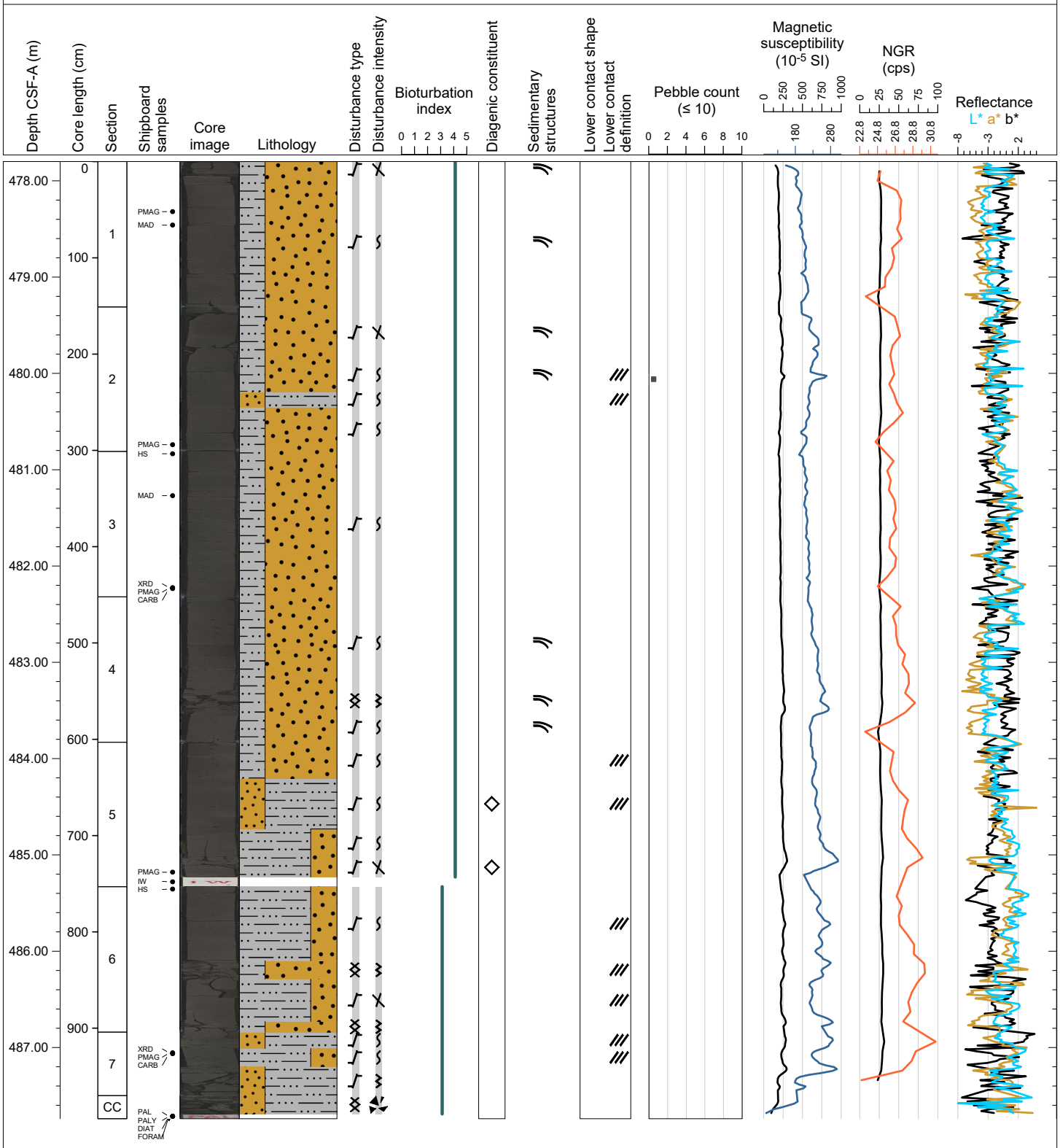
Hole 400-U1608A Core 51R, Interval 468.1-470.8 m (CSF-A)

Dark greenish grey to dark grey sandy mud and muddy sand with dispersed clasts. Mafic igneous and granitic gneissic clasts are present.



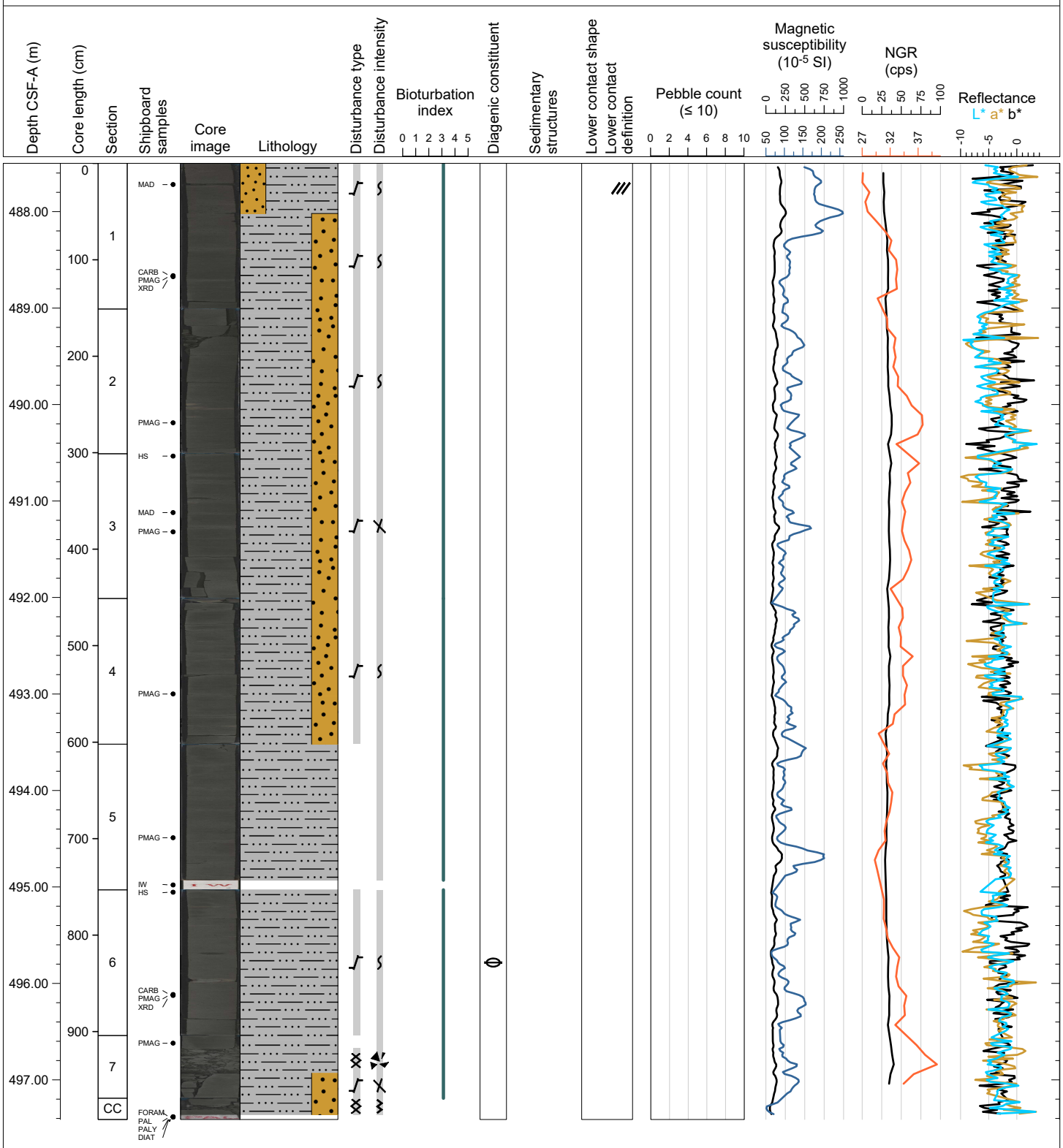
Hole 400-U1608A Core 52R, Interval 477.8-487.74 m (CSF-A)

Dark brown muddy sand transitioning downcore to medium to dark brown sandy mud to mud with sand. The sand component in these lithologies is dominantly fine-grained with sparse coarser grains/granules. The muddy sand in the upper part of the core includes some weak/faint stratification. Bioturbation is present throughout (to varying degrees). Pseudomorph nodules of ikaite/glendonite are present in Section 5.



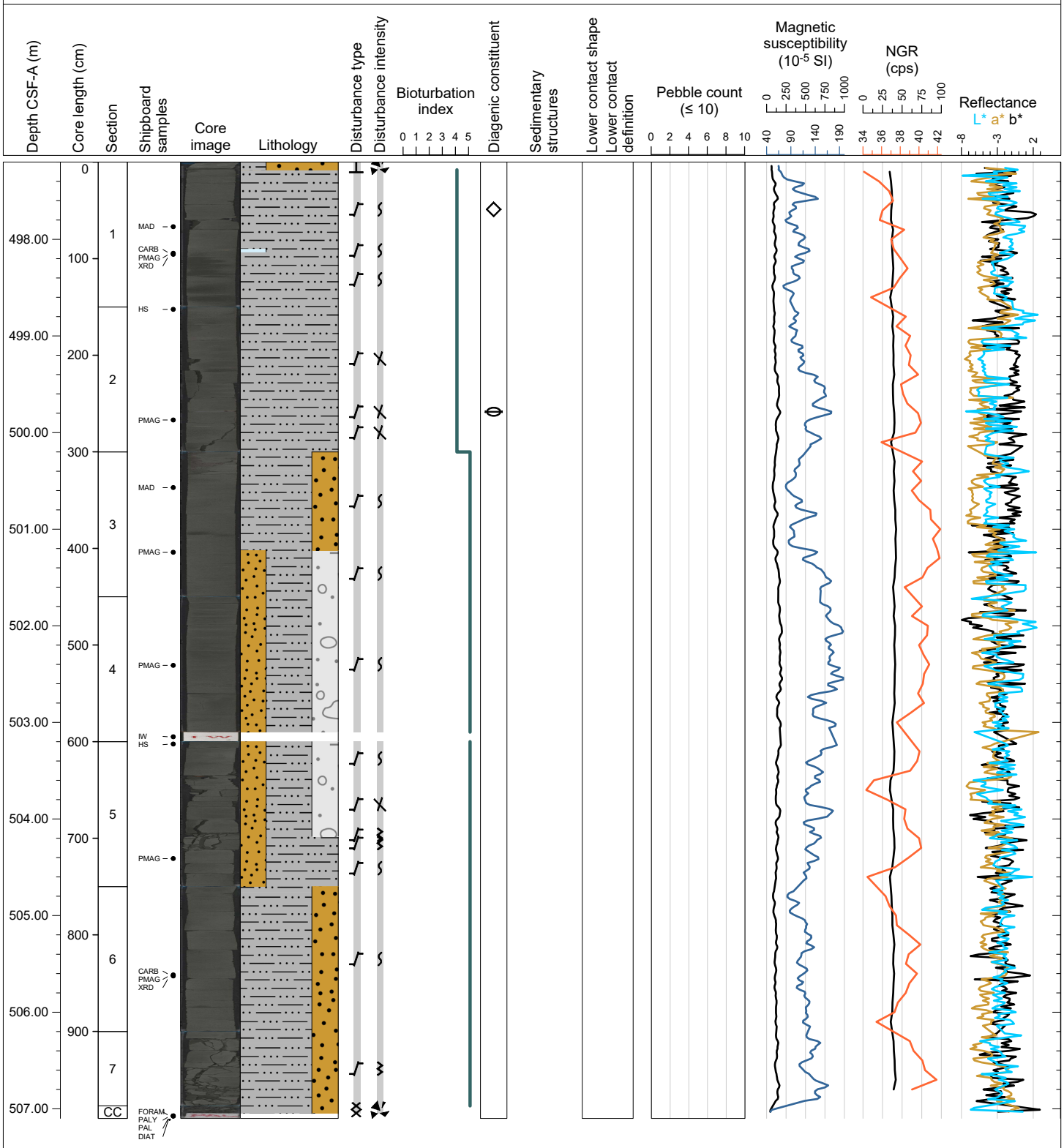
Hole 400-U1608A Core 53R, Interval 487.5-497.41 m (CSF-A)

Dark greyish brown sandy mud transitioning downcore to a bioturbated medium greenish grey mud with sand, and mud. Bioturbated calcareous mud patches are present. Drilling disturbance is slight to moderate.



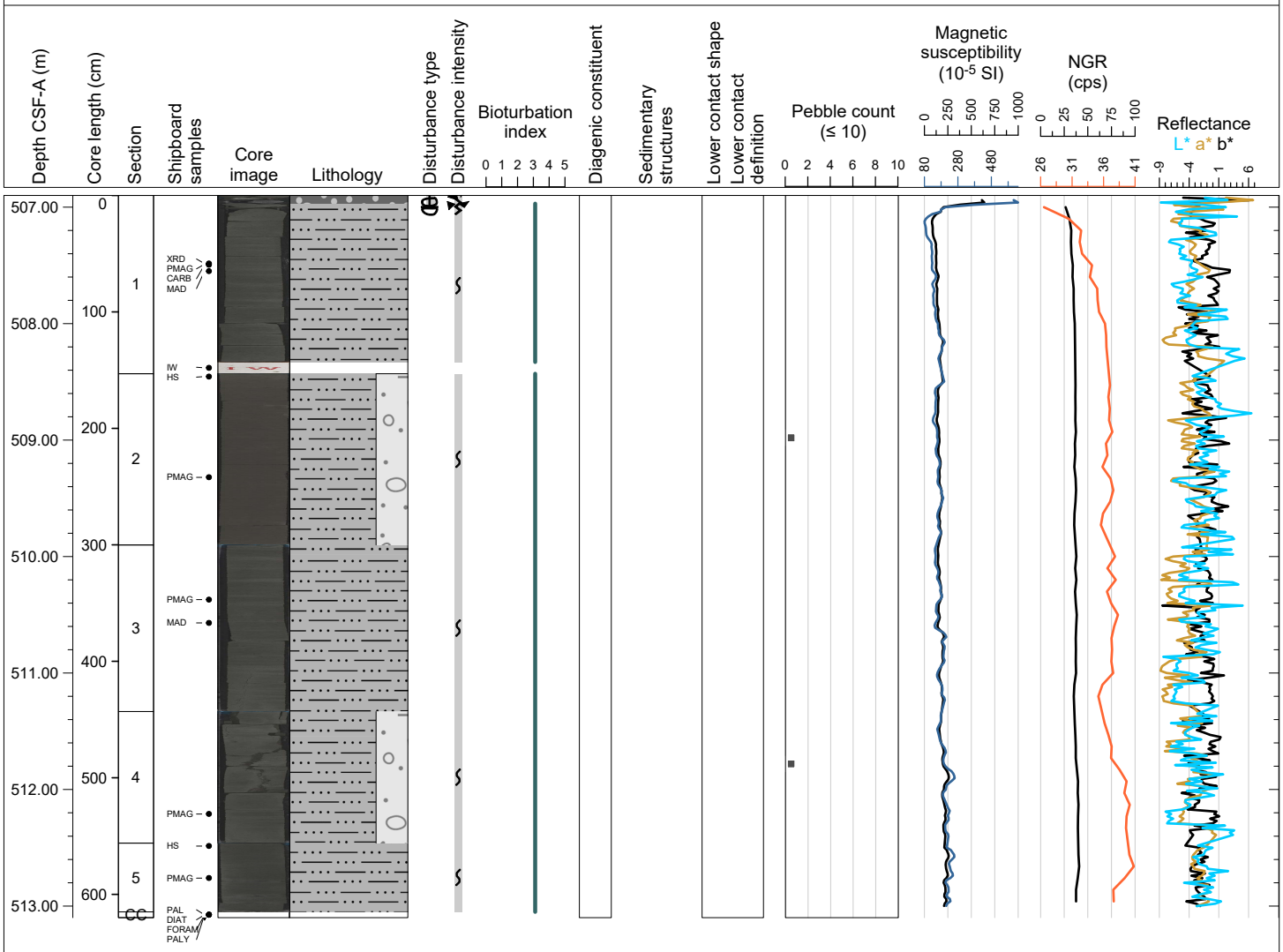
Hole 400-U1608A Core 54R, Interval 497.2-507.1 m (CSF-A)

Dark greenish grey, bioturbated mud, sandy mud, mud with sand, and sandy mud with dispersed clasts. The lithological descriptions reflect minor changes in matrix and clast composition throughout the core. The mud component is silt-rich (often coarse silt) and sandy mud includes very fine and fine sand and rare outsized clasts that are coarse sand to granule-sized up to small pebbles. All contacts between lithologies are gradational. Burrows are often black-colored and/or have pyrite fill. Calcareous mud is present, but rare and appears as blebs or thin, dispersed laminae in Sections 1 and 2.



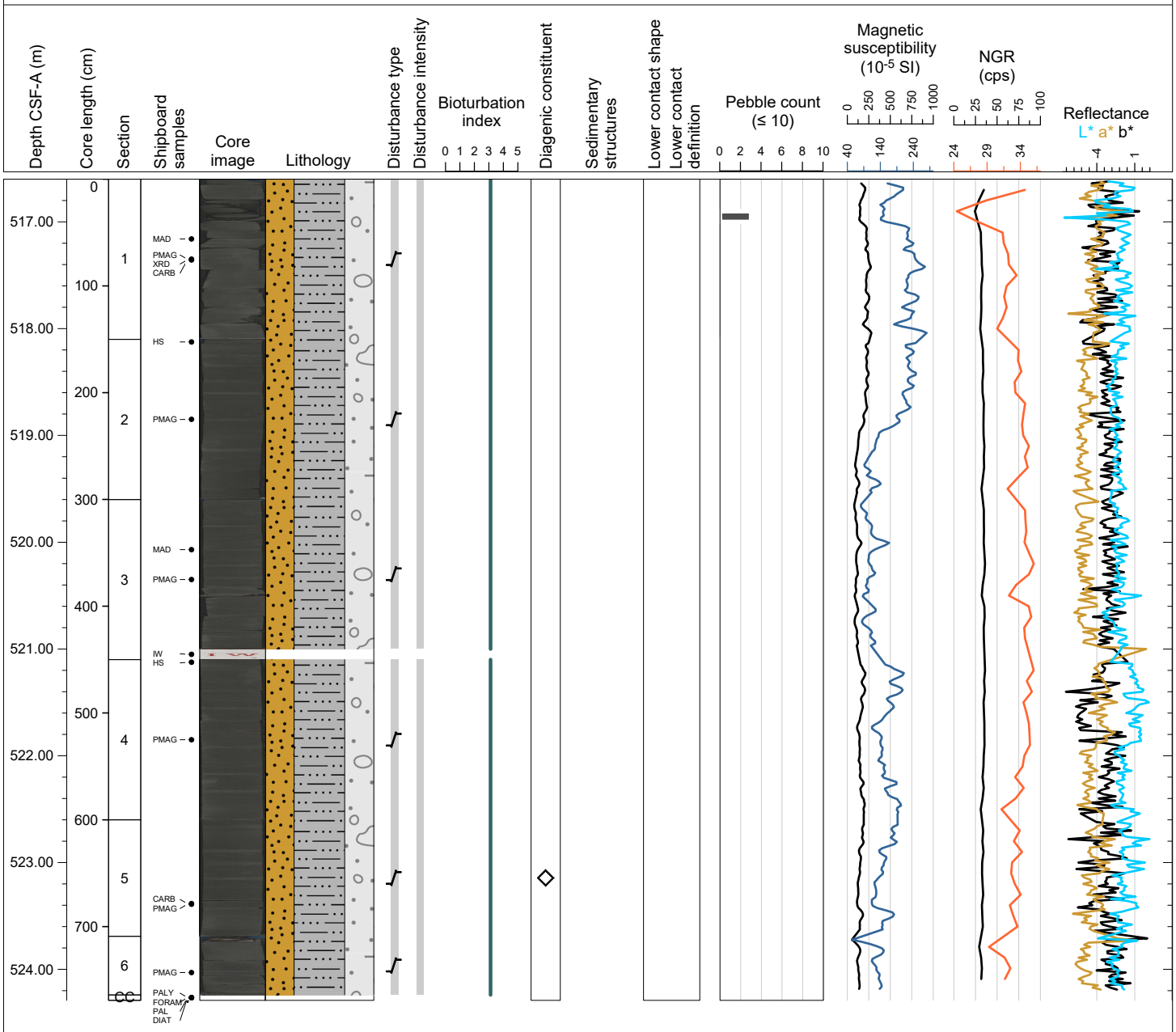
Hole 400-U1608A Core 55R, Interval 506.9-513.1 m (CSF-A)

Greenish grey bioturbated mud with dispersed clasts. Burrows have a black lining and are rarely pyritized. Rock clasts up to 1 cm in size.



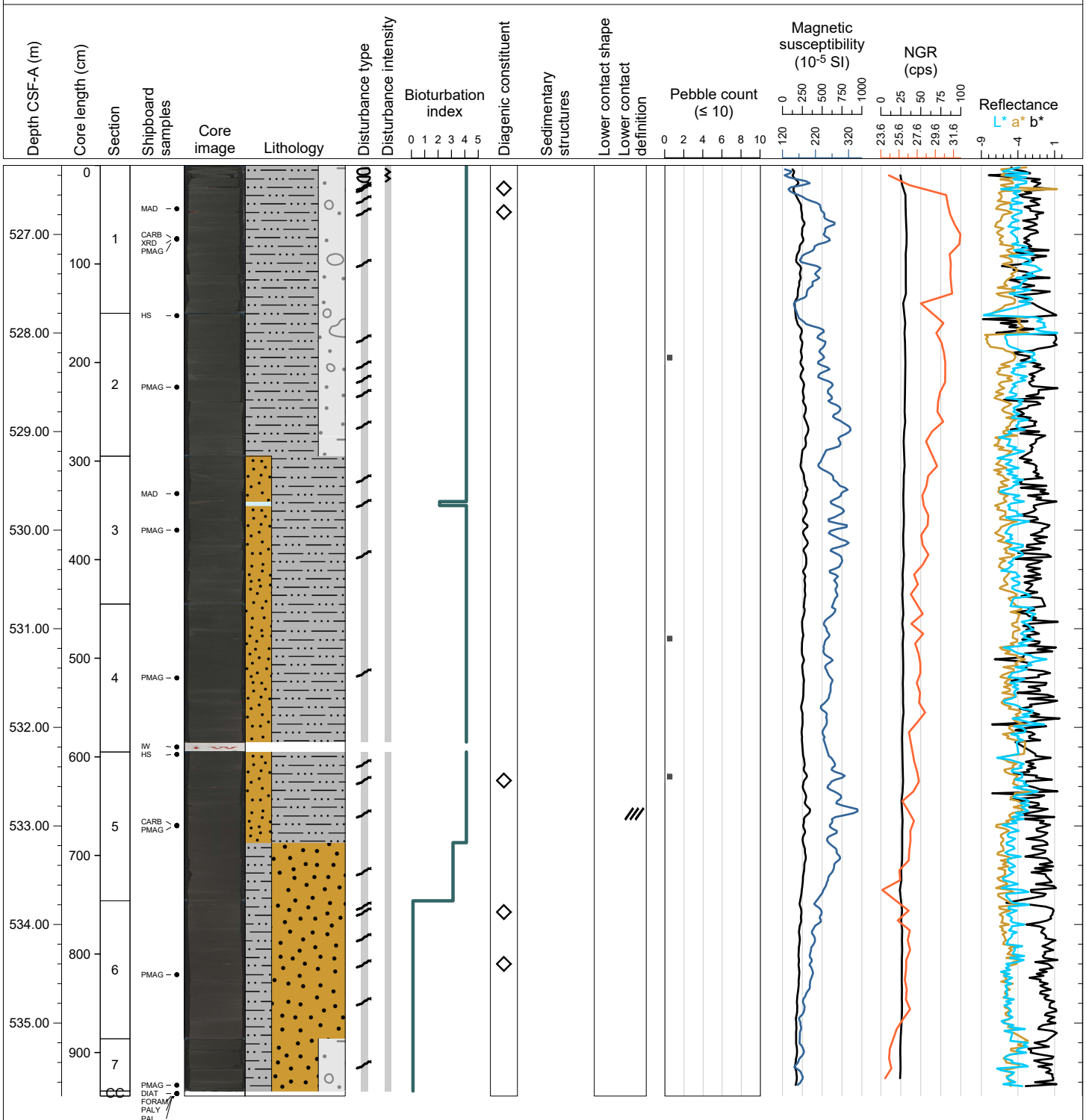
Hole 400-U1608A Core 56R, Interval 516.6-524.29 m (CSF-A)

Dark greyish green sandy mud with dispersed clasts. Clasts are sub-angular 2-5 mm quartz crystals and black fined grained granules. There are few tan calcareous mud filled burrows throughout approximately 5-10 mm. Bioturbation otherwise is predominantly 2-3mm thick and 10-30 mm long dark burrows, oriented horizontal with occasional sand-lined burrows of 50 mm long tracks cross the core face. There are shell fragments (potentially whole micro-gastropoda) that are less than 5 mm in sections 2, 4 and 5. An organic pod is located in Section 4. Diagenetic features include a glendonite pseudomorph at the top of Section 5.



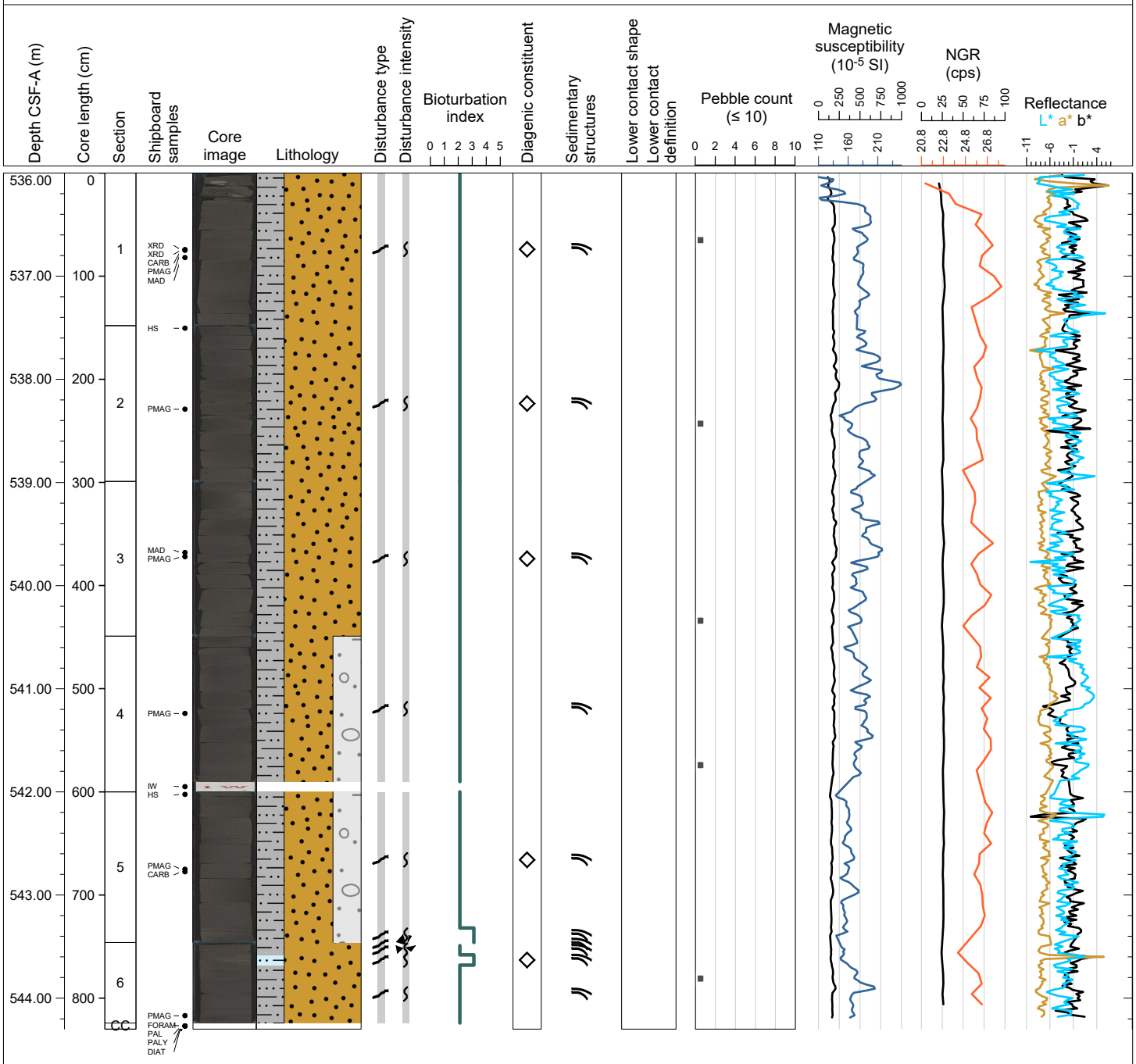
Hole 400-U1608A Core 57R, Interval 526.3-535.74 m (CSF-A)

Dark greenish grey mud, mud with dispersed clasts, sandy mud, and muddy sand. Bioturbation decreases downcore as sand abundance increases. Pseudomorphs after ikaite are present in Sections 1, 5, and 6.



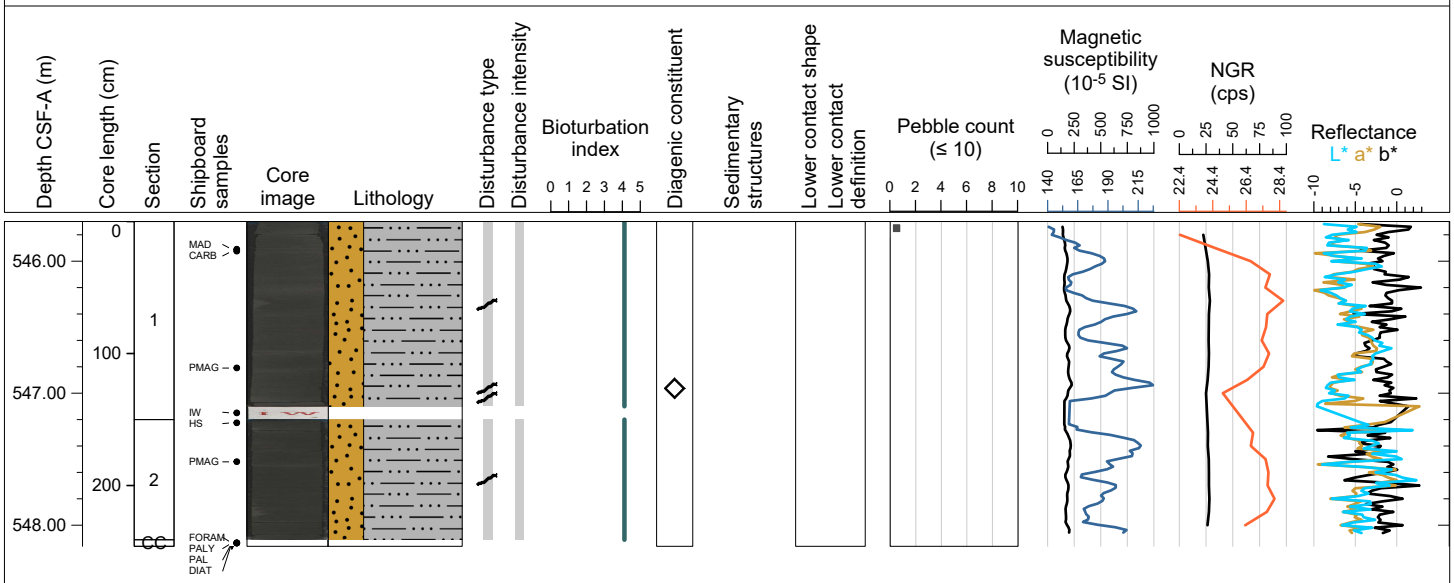
Hole 400-U1608A Core 58R, Interval 536.0-544.3 m (CSF-A)

Dark greenish grey muddy very fine sand with and without dispersed clast and one interval of medium greyish yellow calcareous very fine muddy sand. Weakly laminated throughout. Rare shell fragments throughout and pseudomorphs after ikaite are found in every section except for Section 4. Bioturbation is moderate with an increase in the calcareous muddy sand in Section 6.



Hole 400-U1608A Core 59R, Interval 545.7-548.16 m (CSF-A)

Dark greyish brown, bioturbated sandy mud. Pseudomorphs after ikaite occur in Section 1.



Hole 400-U1608A Core 60R, Interval 555.4-561.46 m (CSF-A)

Medium greenish grey bioturbated mud with dispersed clasts. Bioturbation is expressed as mm-scale, horizontal burrows filled with black material. A few burrows in Sections 2 and 3 contain light brown calcareous mud. Dispersed clasts are mostly black and < 5 mm in size. A pyritized shell occurs at 38 cm in Section 5.