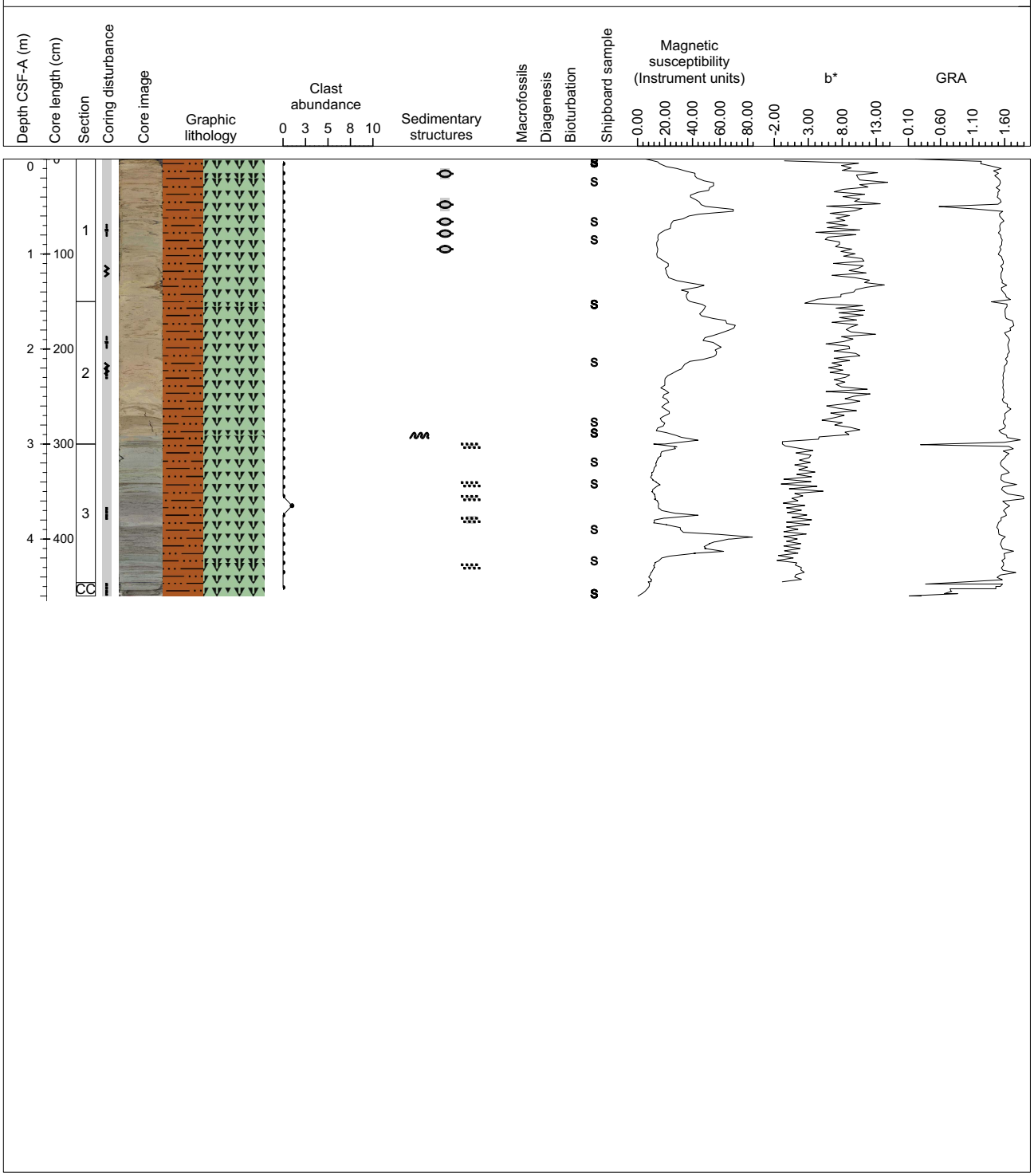
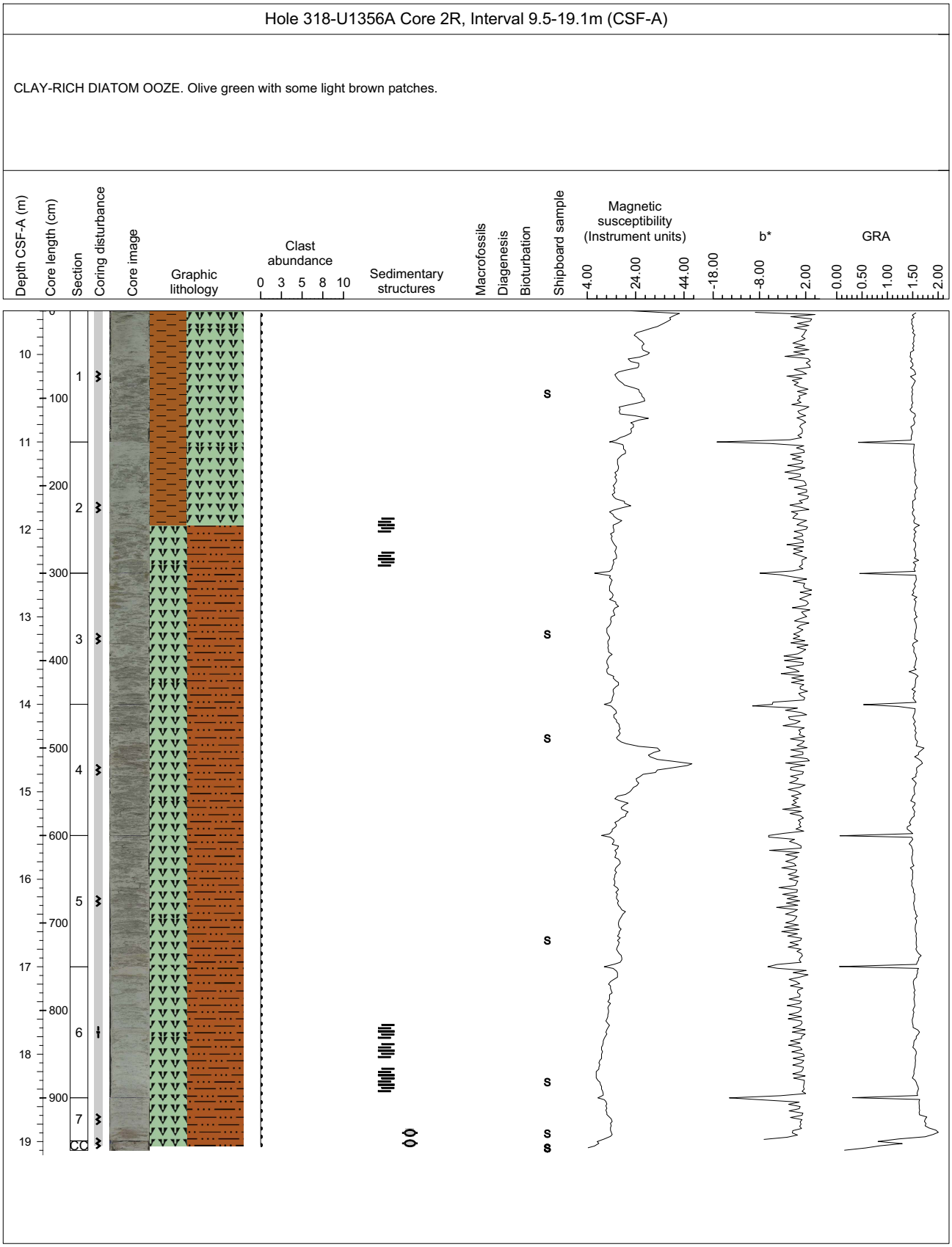
Core Photo

Hole 318-U1356A Core 1R, Interval 0.0-4.6m (CSF-A)

SILTY-CLAY RICH DIATOM OOZE. The upper 2.91 m of the core contains interbeds of light olive brown and yellow brown silty clay-rich diatom ooze, with zones of mm-scale blebs of dark-brown clay. Original bedding and sedimentary structures are obscured by moderate to high levels of drilling disturbance. Between 4.6 and 2.91 m, the core consists of greenish olive grey silty clay-rich diatom ooze with 1-4 cm interbeds of well-sorted fine sand and clay-rich diatom ooze.



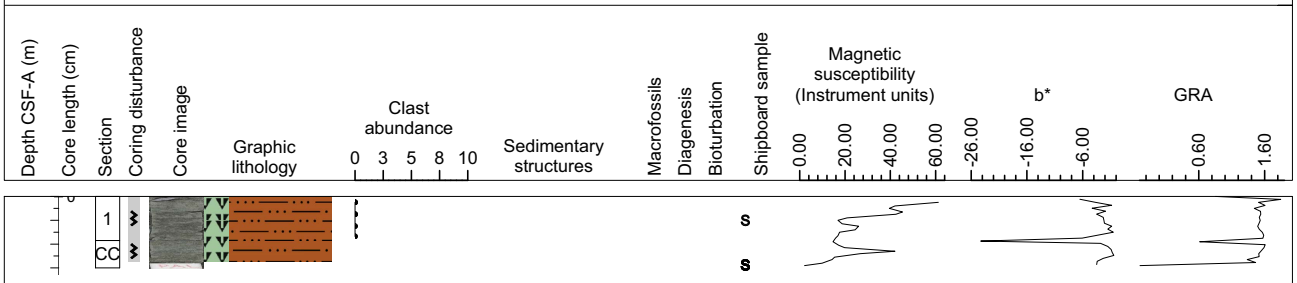
Core Photo


Hole 318-U1356A Core 2R, Interval 9.5-19.1m (CSF-A)
CLAY-RICH DIATOM OOZE. Olive green with some light brown patches.
Depth CSF-A (m)
Core length (cm)
Section
Coring disturbance
Core image
Graphic lithology
Clast abundance
0 3 5 8 10
Sedimentary structures
Macrofossils
Diagenesis
Bioturbation
Shipboard sample
Magnetic susceptibility (Instrument units)
4.00 24.00 44.00
b*
-18.00 -8.00 2.00
GRA
0.00 0.50 1.00 1.50 2.00
CC

Core Photo

Hole 318-U1356A Core 3R, Interval 19.2-19.8m (CSF-A)

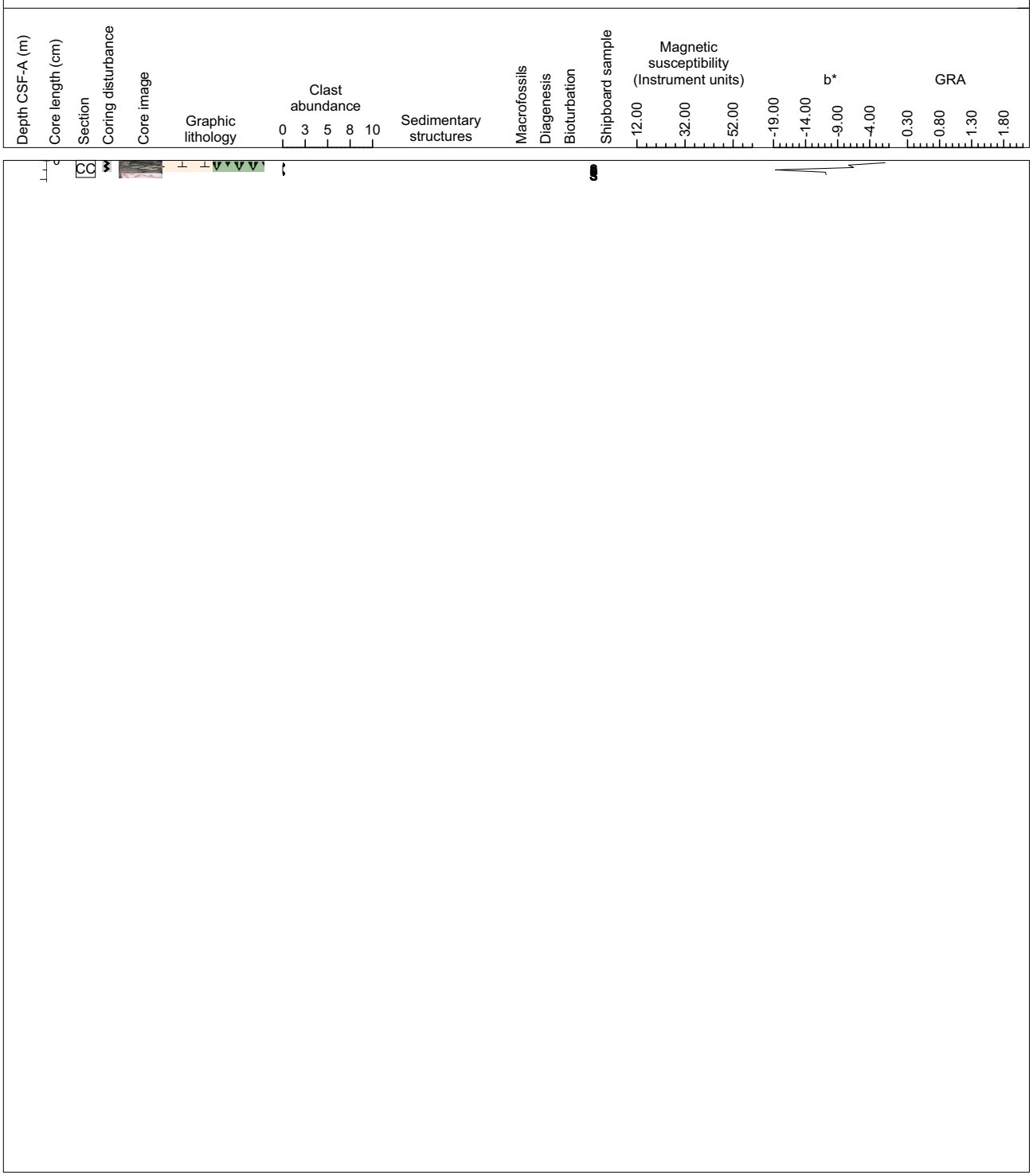
DIATOM-BEARING SILTY CLAY WITH DISPERSED CLASTS. Olive green. One pebble-sized clast.



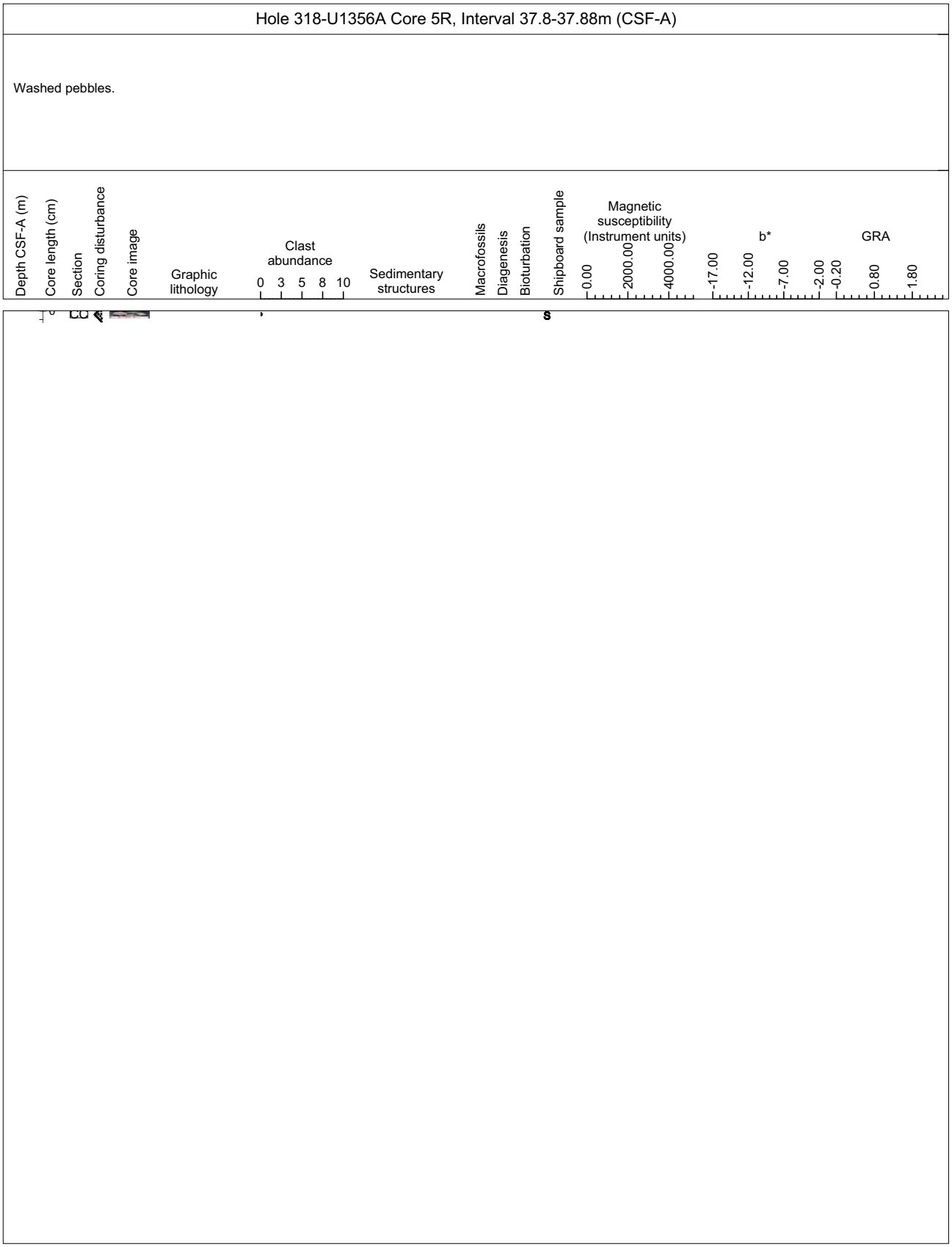
Core Photo

Hole 318-U1356A Core 4R, Interval 28.2-28.38m (CSF-A)

NANNOFOSSIL DIATOM OOZE. Abundant pebbles present. Strongly disturbed core section.



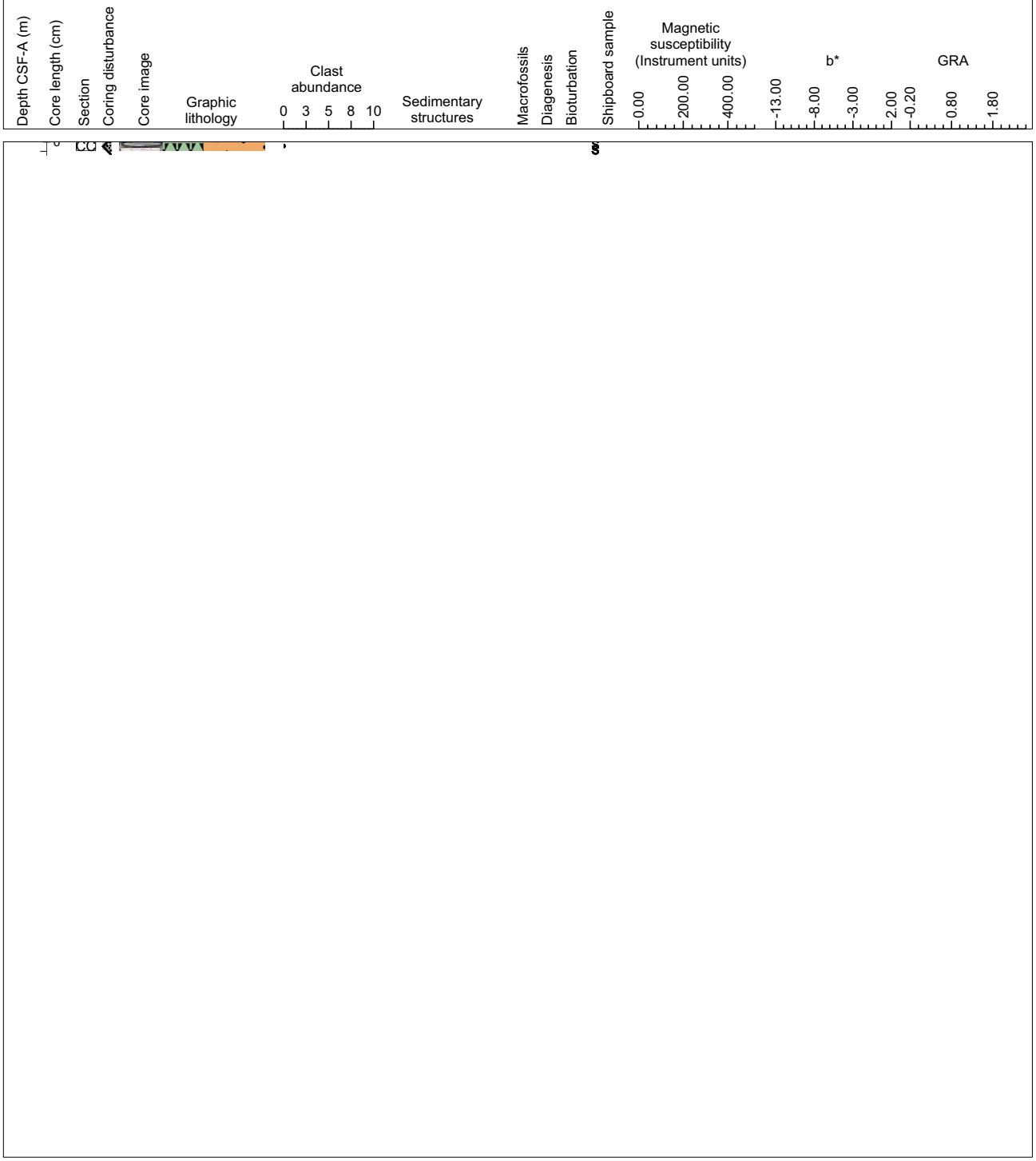
Core Photo


Hole 318-U1356A Core 5R, Interval 37.8-37.88m (CSF-A)
Washed pebbles.
Depth CSF-A (m)
Core length (cm)
Section
Coring disturbance
Core image
Graphic lithology
Clast abundance
0 3 5 8 10
Sedimentary structures
Macrofossils
Diagenesis
Bioturbation
Shipboard sample
Magnetic susceptibility (Instrument units)
0.00 2000.00 4000.00
b*
-17.00 -12.00 -7.00 -2.00 -0.20
GRA
0.80 1.80

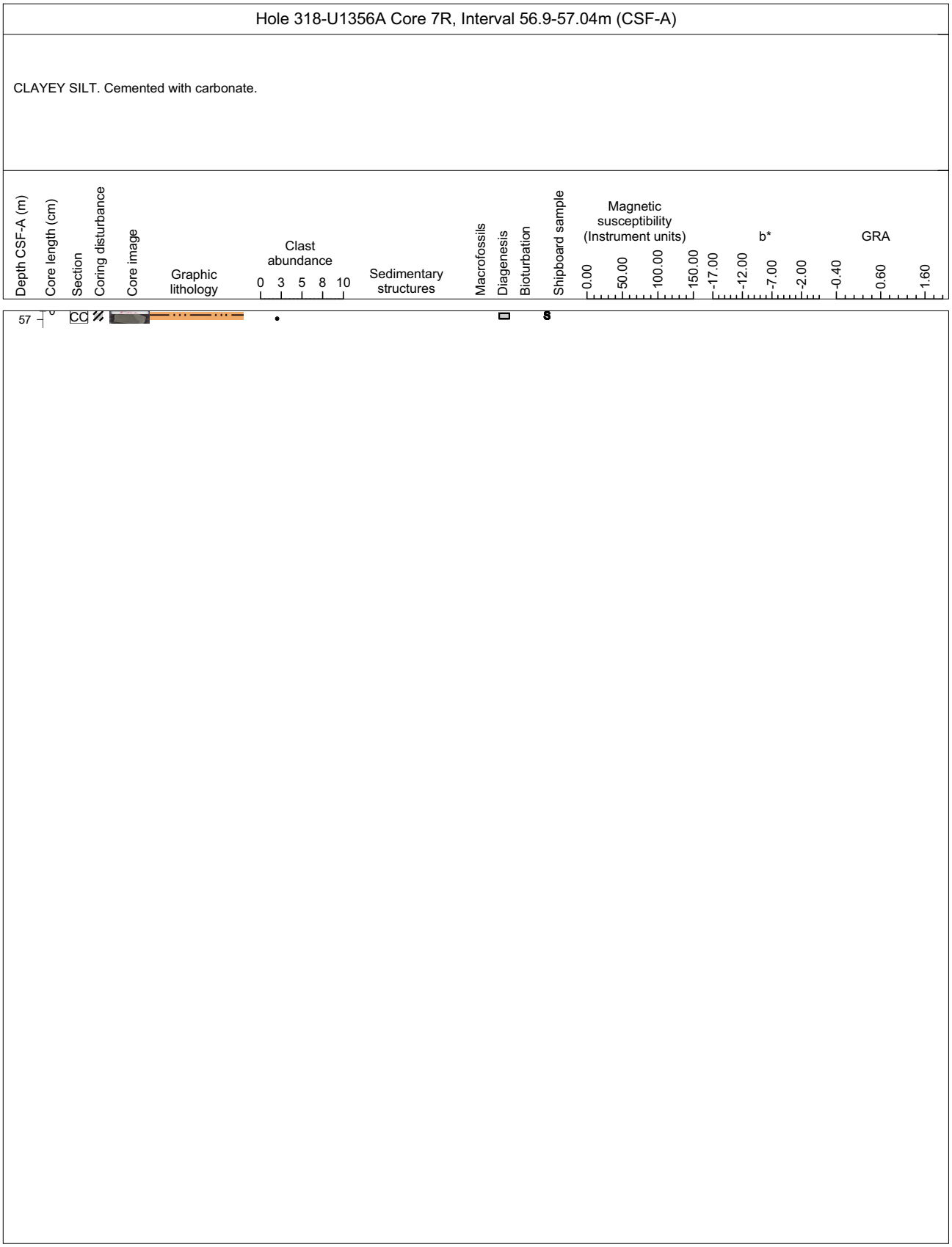
Core Photo

Hole 318-U1356A Core 6R, Interval 47.3-47.39m (CSF-A)

DIATOM-RICH SILTY CLAY WITH DISPERSED CLASTS. One washed pebble. Granite.



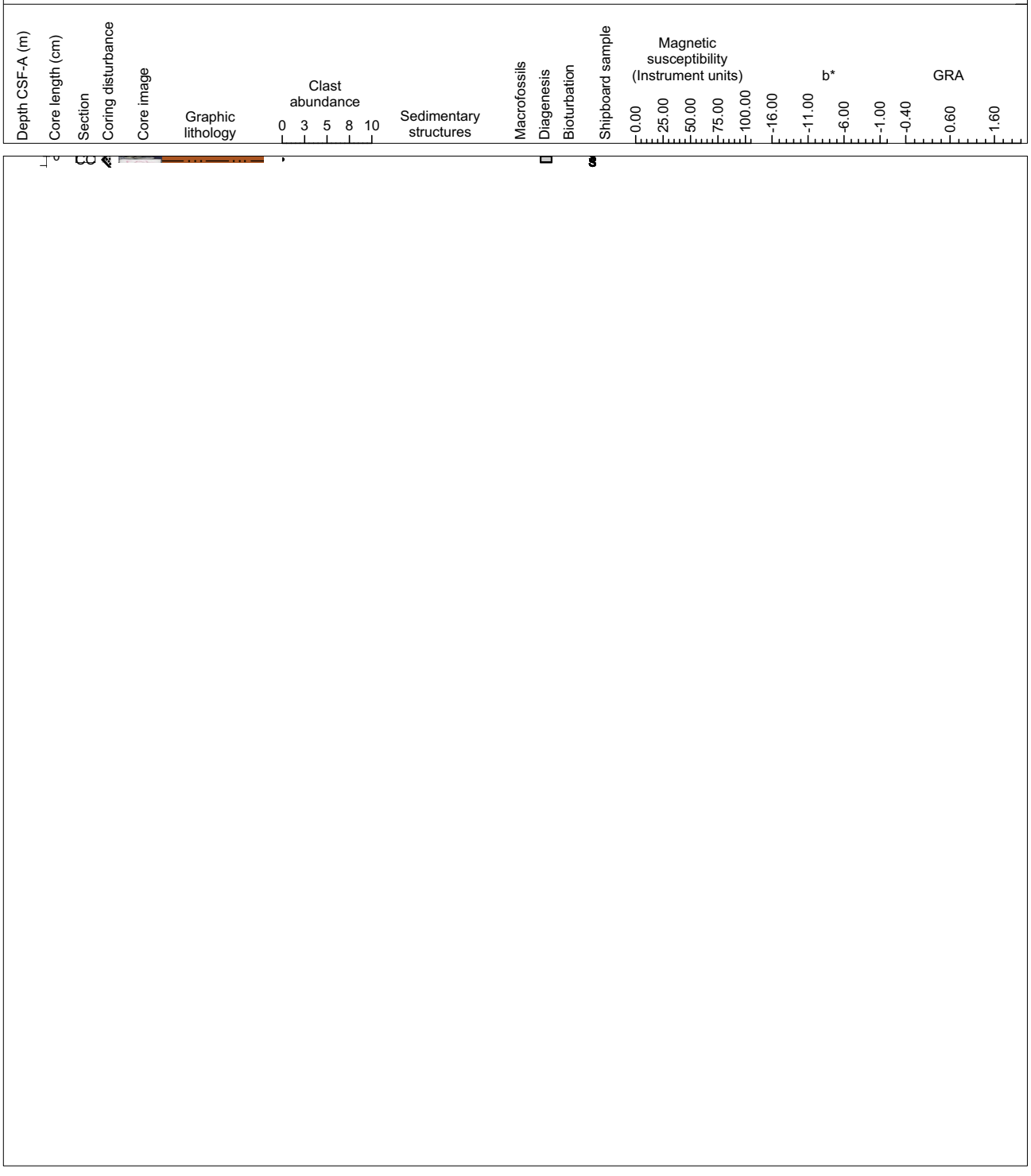
Core Photo


Hole 318-U1356A Core 7R, Interval 56.9-57.04m (CSF-A)
CLAYEY SILT. Cemented with carbonate.
Depth CSF-A (m)
Core length (cm)
Section
Coring disturbance
Core image
Graphic lithology
Clast abundance
0 3 5 8 10
Sedimentary structures
Macrofossils
Diagenesis
Bioturbation
Shipboard sample
Magnetic susceptibility (Instrument units)
0.00 50.00 100.00 150.00
b*
-17.00 -12.00 -7.00 -2.00
GRA
-0.40 0.60 1.60
57
CC

Core Photo

Hole 318-U1356A Core 8R, Interval 66.5-66.57m (CSF-A)

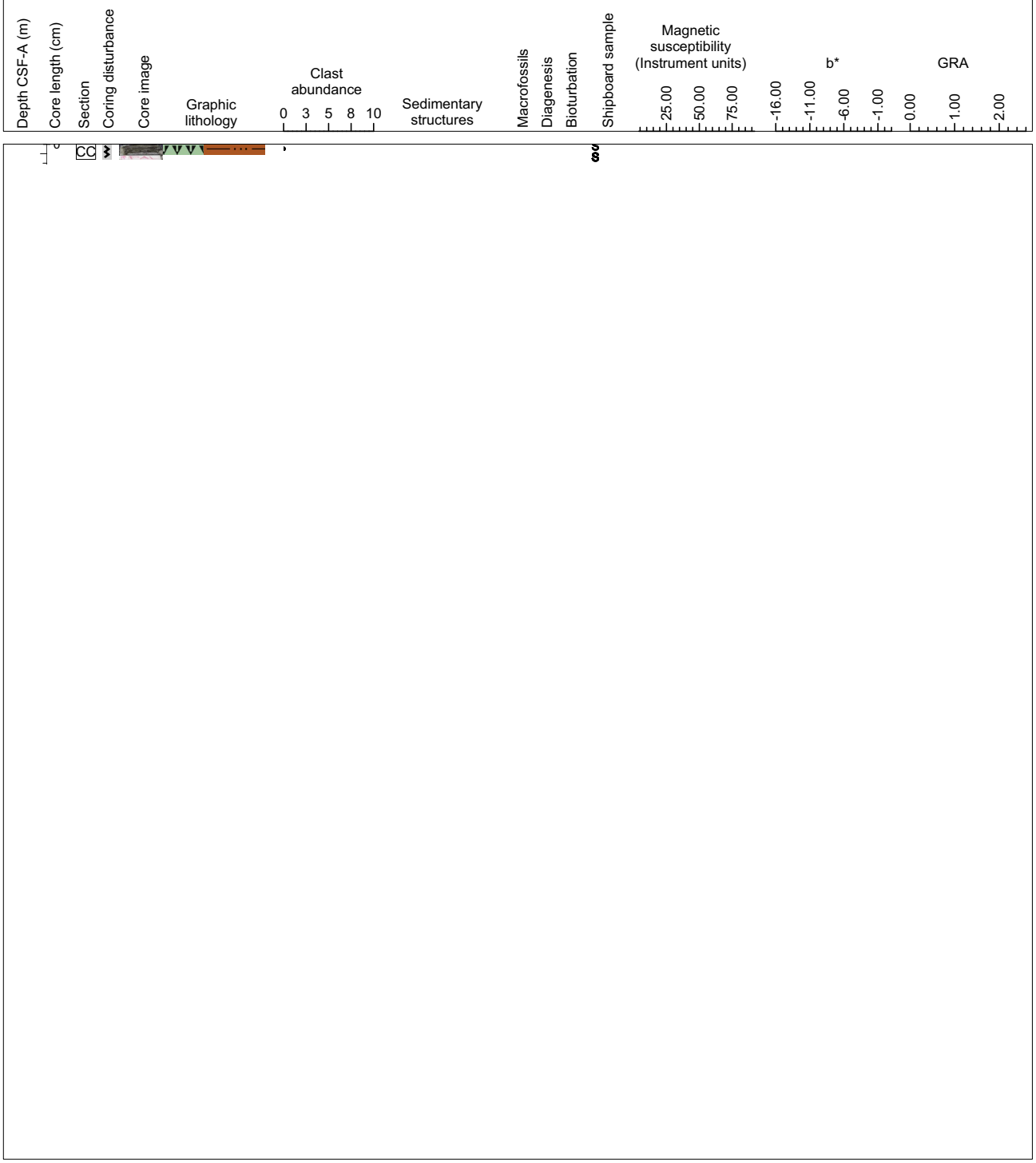
SILTY CLAY WITH DISPERSED CLASTS. Core extremely disturbed. Based on only a very small piece of intraformational mudstone.



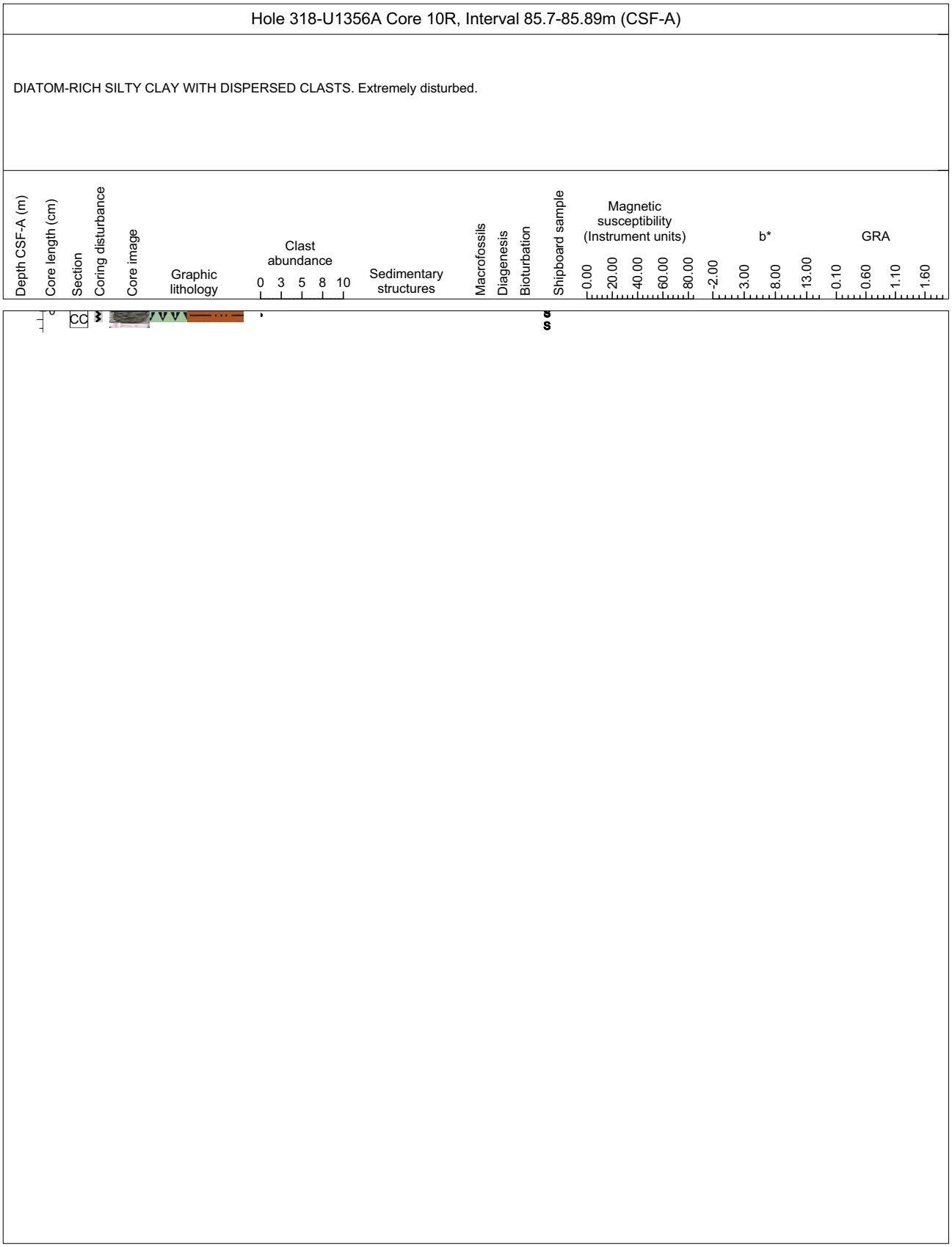
Core Photo

Hole 318-U1356A Core 9R, Interval 76.1-76.26m (CSF-A)

DIATOM-RICH SILTY CLAY WITH DISPERSED CLASTS.



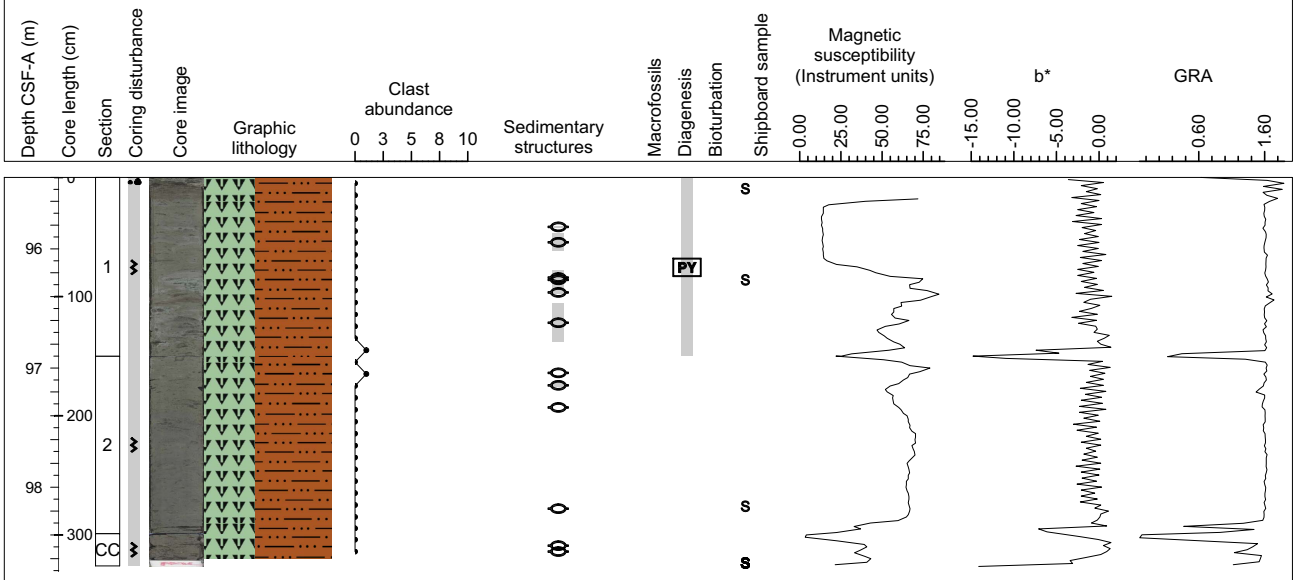
Core Photo


Hole 318-U1356A Core 10R, Interval 85.7-85.89m (CSF-A)
DIATOM-RICH SILTY CLAY WITH DISPERSED CLASTS. Extremely disturbed.
Depth CSF-A (m)
Core length (cm)
Section
Coring disturbance
Core image
Graphic lithology
Clast abundance
0 3 5 8 10
Sedimentary structures
Macrofossils
Diagenesis
Bioturbation
Shipboard sample
Magnetic susceptibility (Instrument units)
0.00 20.00 40.00 60.00 80.00
b*
-2.00 3.00 8.00 13.00
GRA
0.10 0.60 1.10 1.60
CC

Core Photo

Hole 318-U1356A Core 11R, Interval 95.4-98.66m (CSF-A)

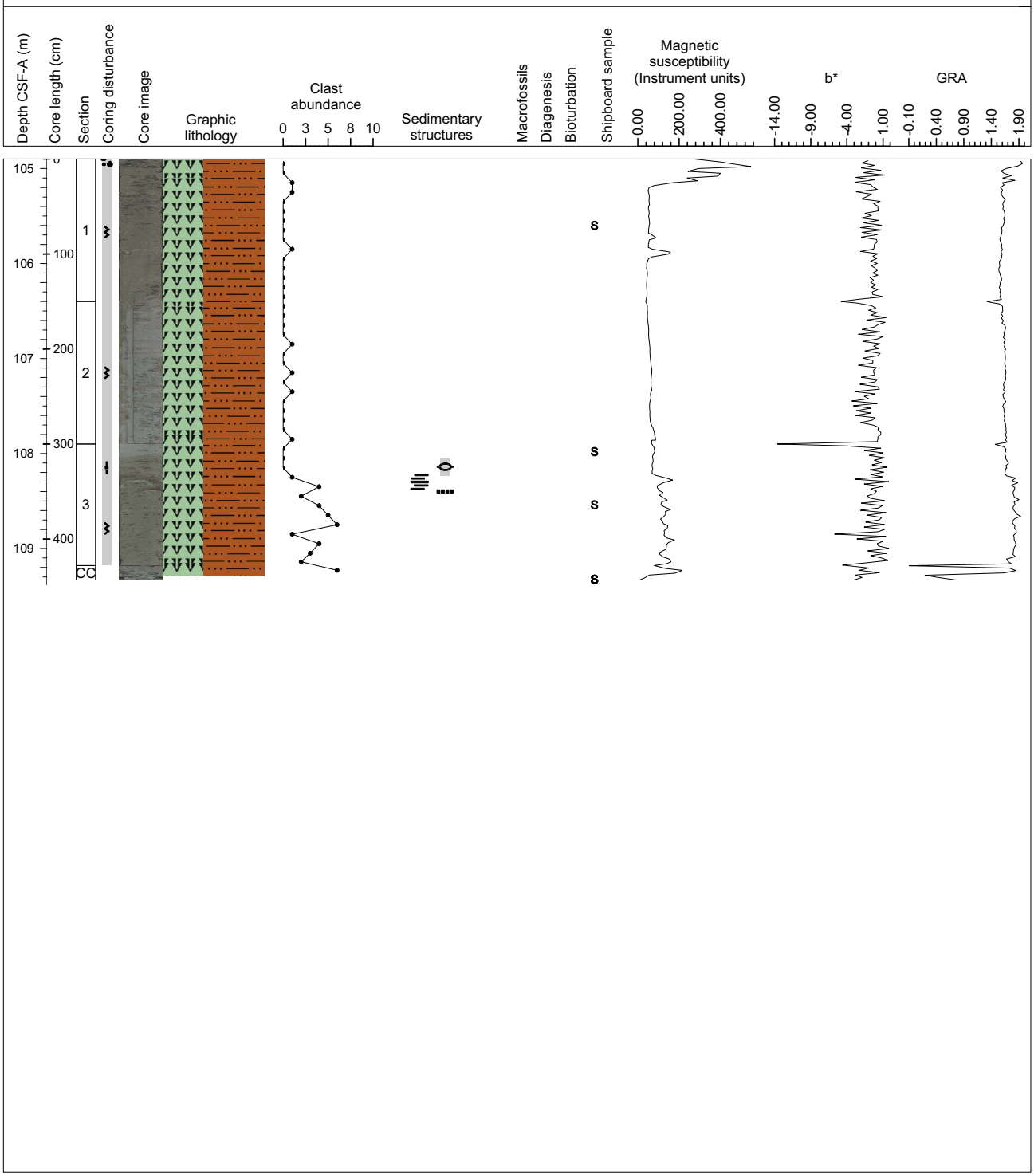
DIATOM-RICH SILTY CLAY. Dark olive clay and light greenish grey. Some sand belbs and silt pockets.



Core Photo

Hole 318-U1356A Core 12R, Interval 104.9-109.33m (CSF-A)

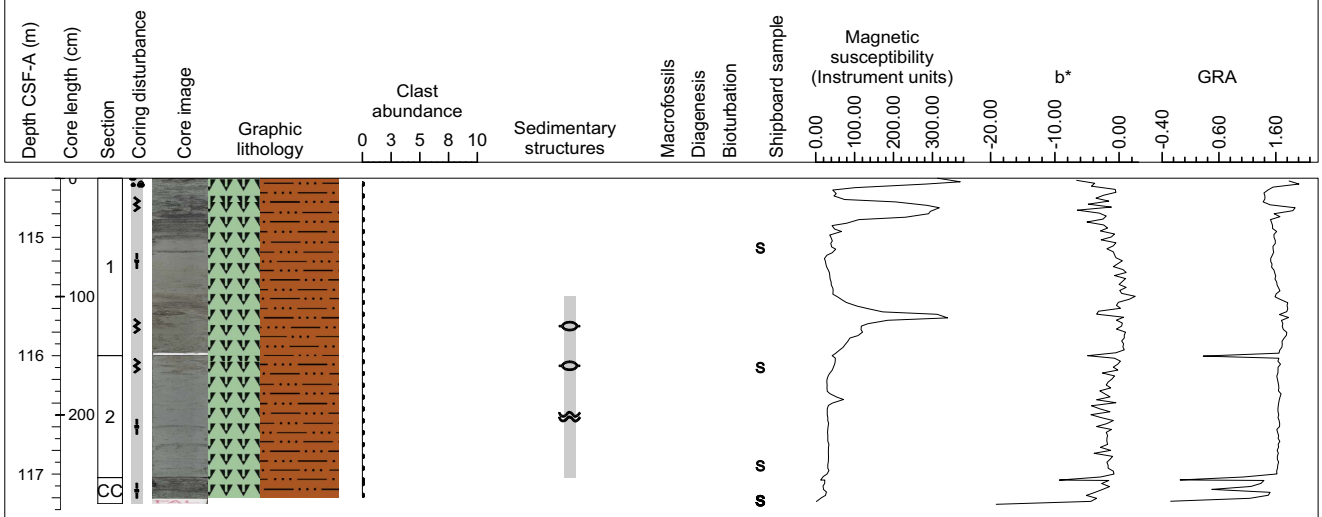
DIATOM-RICH SILTY CLAY WITH DISPERSED CLASTS. Color changes from dark olive grey to light greenish grey over 1.5 m intervals. Sand stringers and silt pockets are present.



Core Photo

Hole 318-U1356A Core 13R, Interval 114.5-117.25m (CSF-A)

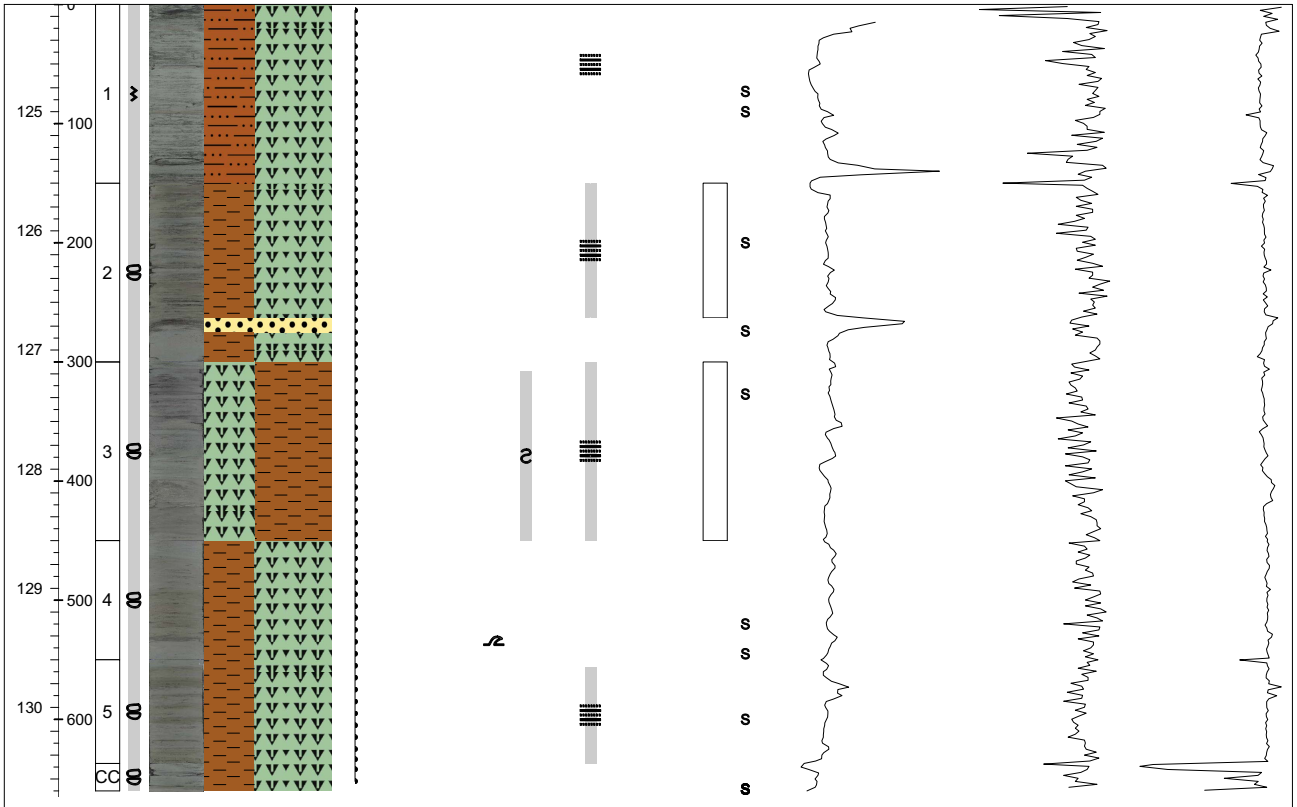
DIATOM-RICH SILTY CLAY WITH DISPERSED CLASTS (up to pebble grade). Smear slides show 3-5% volcanic and possible bryozoan fragments. Olive brown bleb (clayey diatom ooze) between 167-100 cm, but all original structures in this core are highly deformed by drilling disturbance.



Core Photo

Hole 318-U1356A Core 14R, Interval 124.1-130.7m (CSF-A)

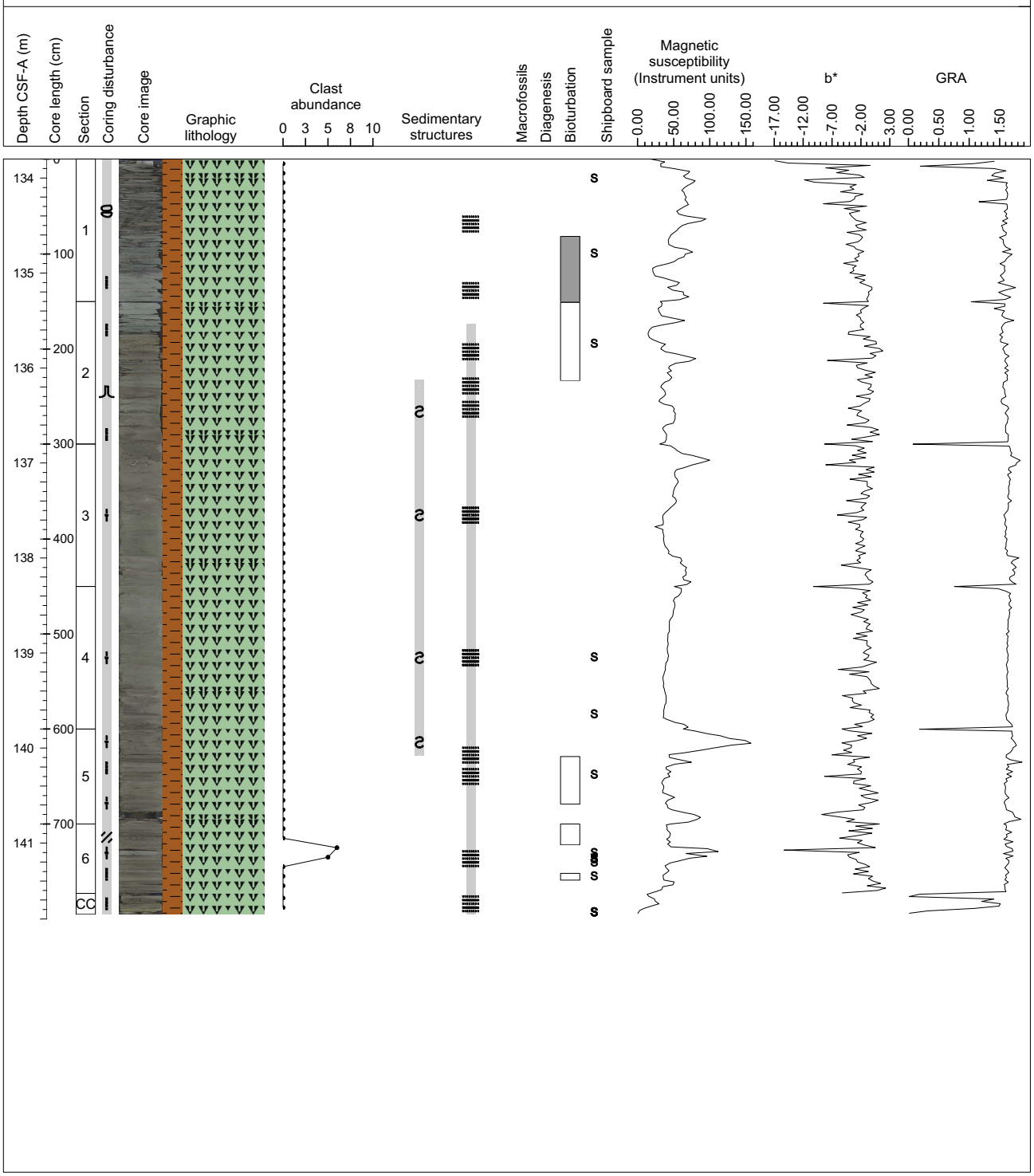
CLAYEY DIATOM OOZE alternating with intervals of diatom-rich clay. mm-scale lamination defined by slight color changes throughout most intervals although there are two ~20cm thick intervals lacking lamination. Sparse bioutrbated throughout most intervals. Lithologies (clayey diatom ooze and diatom-rich clay) are physically intermixed and contorted in sections 3 to 5. A single bed of medium- to very-coarse sand occurs at 125 to 113 in section 2, and overlies a 20-cm interval of massive clayey diatom ooze.



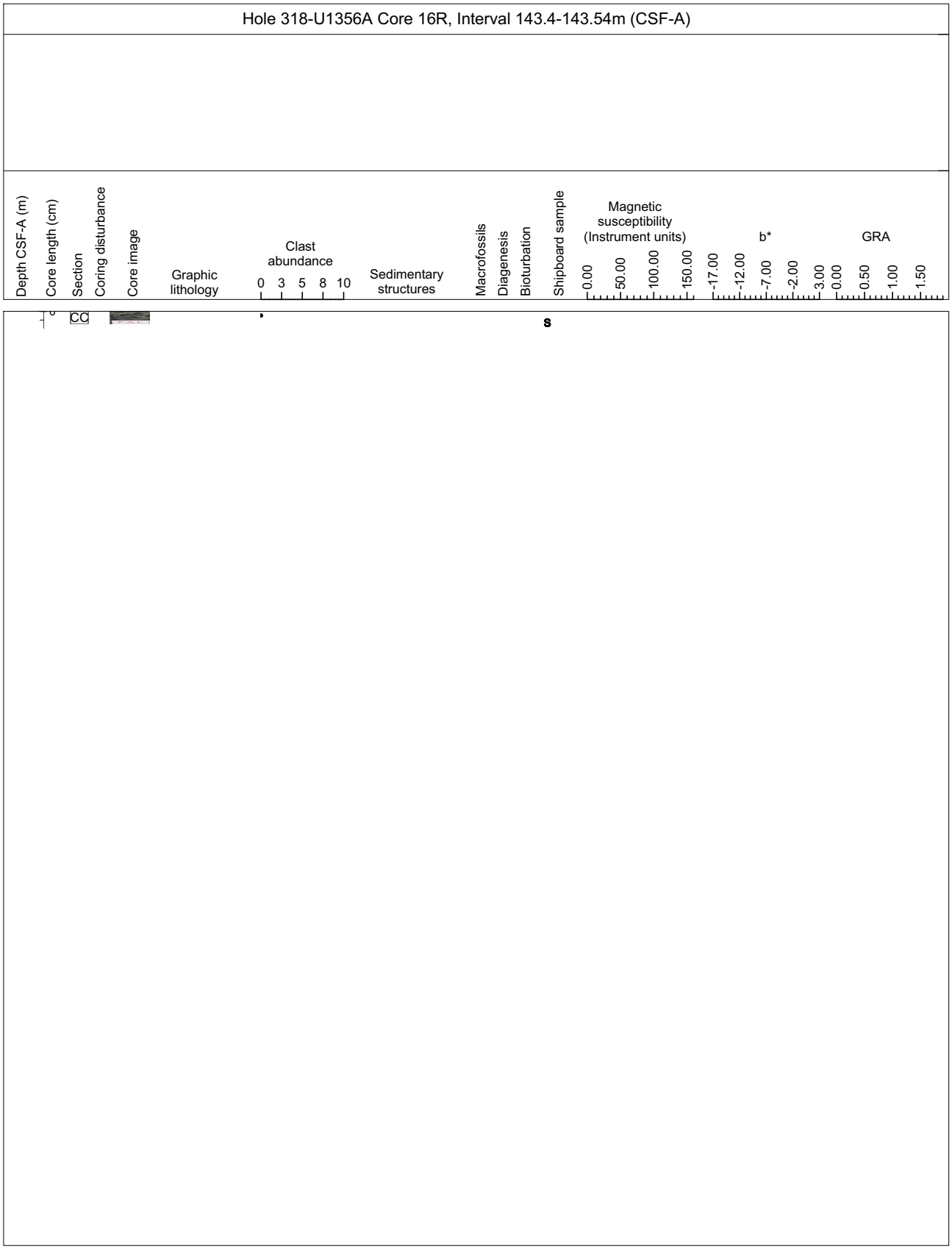
Core Photo

Hole 318-U1356A Core 15R, Interval 133.8-141.75m (CSF-A)

CLAY-BEARING DIATOM OOZE. This core contains finely-laminated clay-rich diatom ooze, but between 82 cm (Section 2) and 28cm (Section 5), the core is strongly contorted and primary sedimentary structures are hard to identify. In the less deformed layers, bioturbation is sparse to moderate, and laminae are represented by discrete color changes. A silty-clay bed with common clasts occurs at 28-33cm (section 6) - the upper contact of this bed is sharp and characterized by a "single-grain" laminae of granules and coarse sand grains. The lower most interval is represented by well-preserved and undeformed laminae, as defined by color changes.



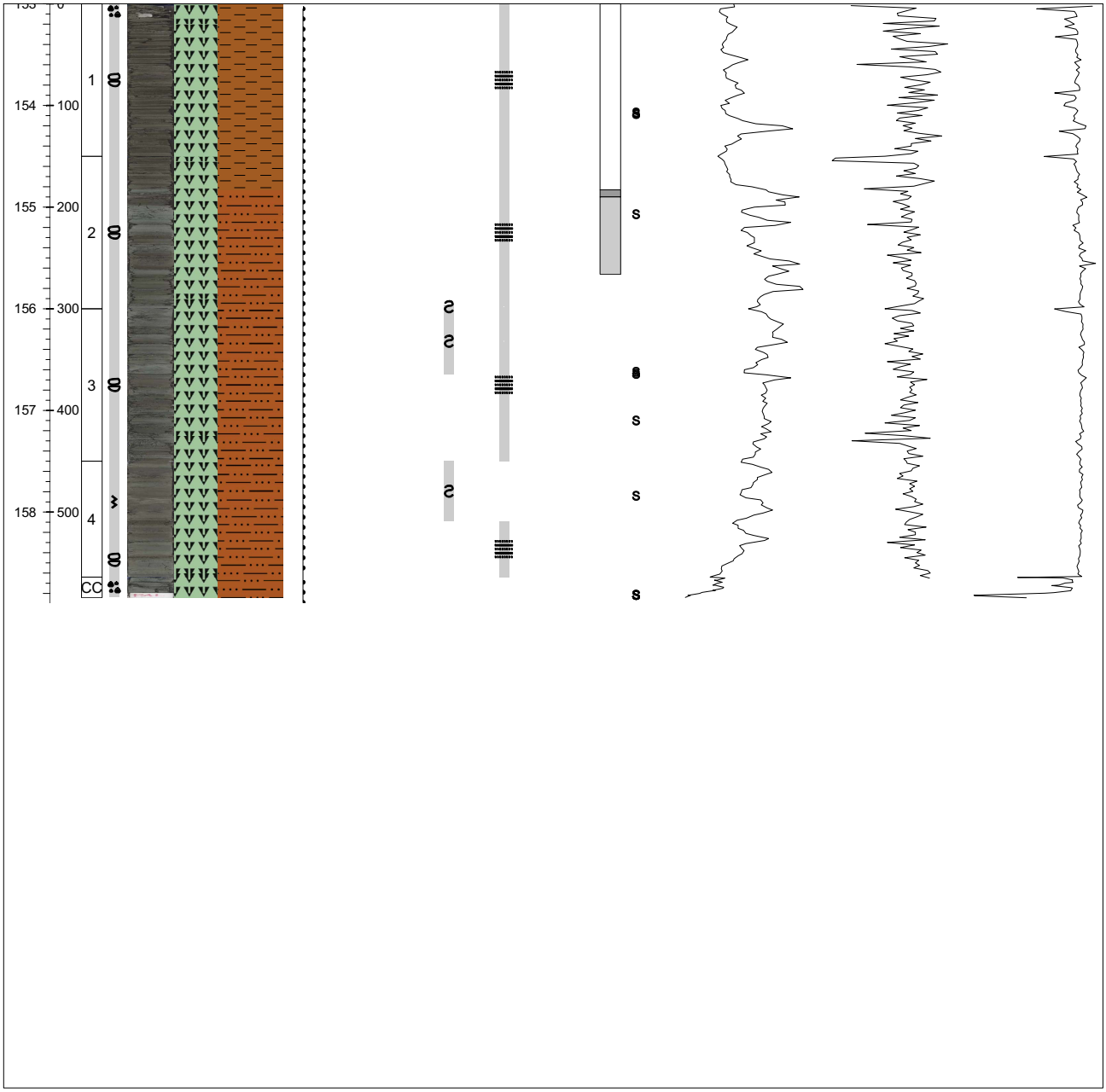
Core Photo


Hole 318-U1356A Core 16R, Interval 143.4-143.54m (CSF-A)
Depth CSF-A (m)
Core length (cm)
Section
Coring disturbance
Core image
Graphic lithology
Clast abundance
0 3 5 8 10
Sedimentary structures
Macrofossils
Diagenesis
Bioturbation
Shipboard sample
Magnetic susceptibility (Instrument units)
0.00 50.00 100.00 150.00
b*
-17.00 -12.00 -7.00 -2.00 3.00
GRA
0.00 0.50 1.00 1.50
CC
S

Core Photo

Hole 318-U1356A Core 17R, Interval 153.0-158.84m (CSF-A)

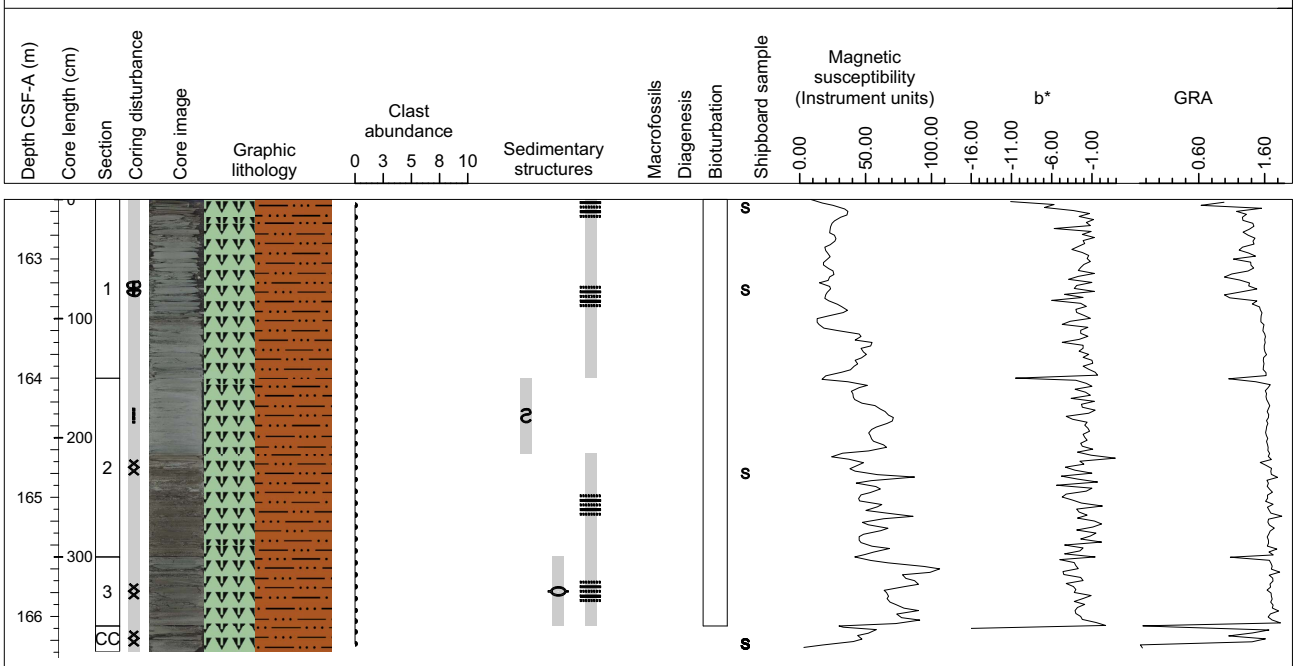
DIATOM-RICH SILTY CLAY. The upper 1.83 m of core is characterized by fine mm-scale laminae of alternating diatom-rich clay and clay-rich diatom ooze, although the lamination are best defined by color changes (light and dark olive brown). Below this, the core is characterized by mm-scale laminae and cm-scale beds of diatom-rich silty clay (light olive grey) and silty clay-rich diatom ooze (dark olive grey). Bioturbation is sparse to moderate throughout, although is more common in the lighter color laminae. Intervals of Sections 2, 3 and 4 have contorted bedding at the dm scale.



Core Photo

Hole 318-U1356A Core 18R, Interval 162.5-166.29m (CSF-A)

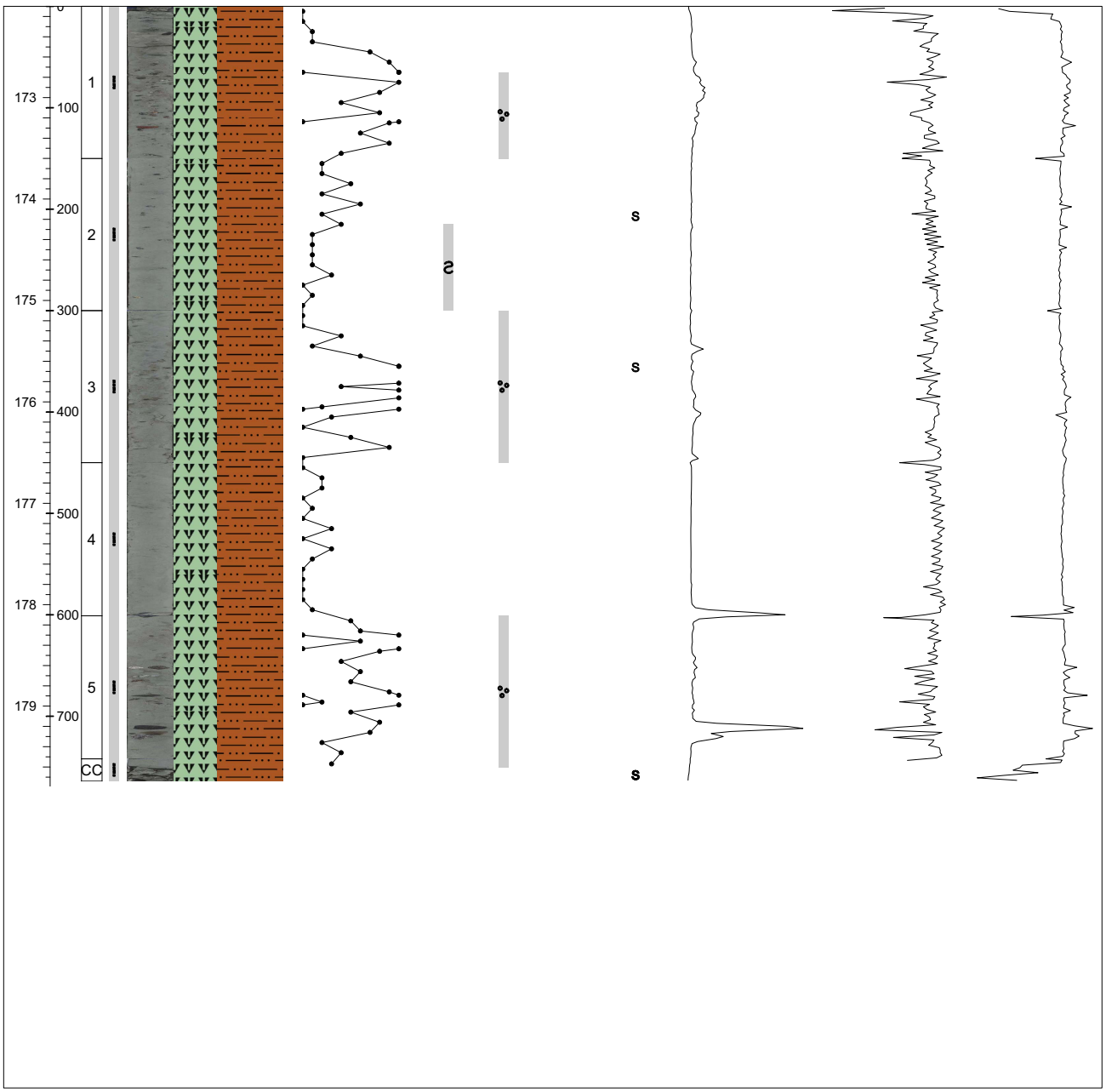
DIATOM-RICH SILTY CLAY. The upper 14 cm consists of mm-scale laminae of olive brown diatom-rich silty clay. Between 14 cm and 227 cm, the core consists of interbedded (cm-scale) light grey diatom-rich silty clay lacking laminations with sparse bioturbation. Finely laminated diatom-rich silty clay with sparse bioturbation occurs below 227cm. Laminae in this interval are defined by clour changes. Thin sand lens occurs at 26cm (in section 3).



Core Photo

Hole 318-U1356A Core 19R, Interval 172.1-179.74m (CSF-A)

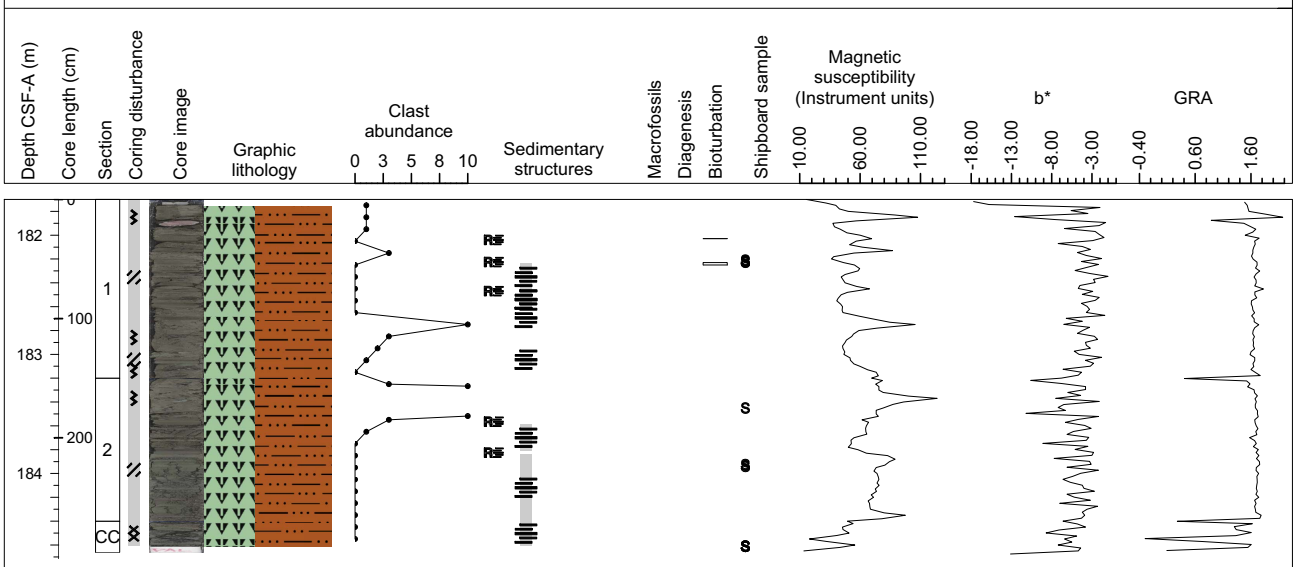
DIATOM-RICH SILTY CLAY WITH COMMON CLASTS. Olive grey color. Mostly massive, but some contorted bedding (probable drilling disturbance) in section 2. Clast abundance ranges from dispersed (<1%), common (1-5%), to abundant (5-30%). Clasts range in size from granules to pebbles up to 6 cm. Lithologies of clasts range from gneisses, granites, volcaniclastics, metasediments. Pebble clusters (nests) occur throughout, but are most common in section 3.



Core Photo

Hole 318-U1356A Core 20R, Interval 181.7-184.66m (CSF-A)

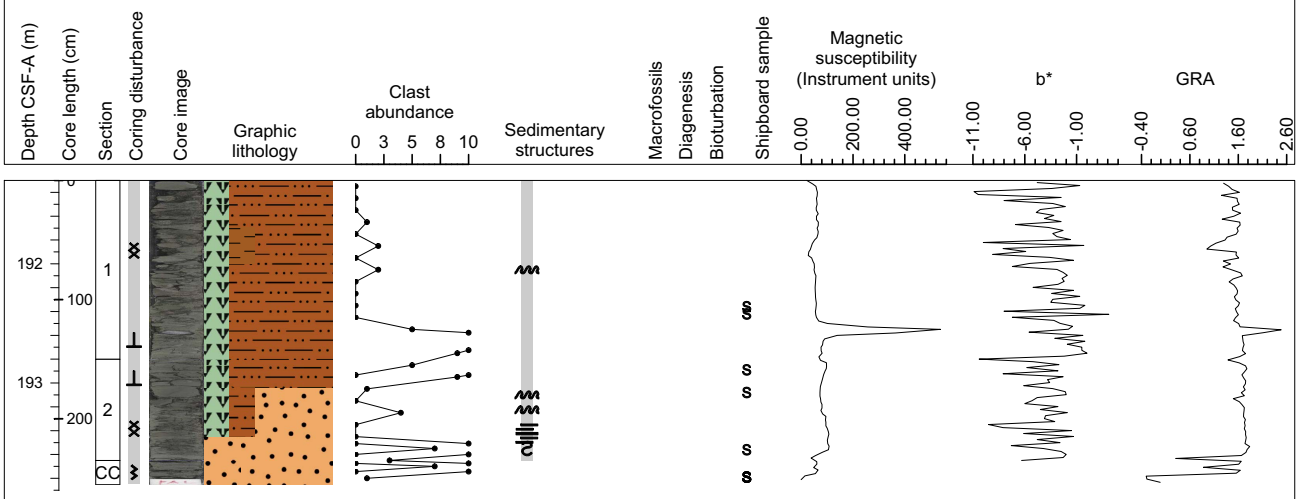
DIATOM-RICH SILTY CLAY. Laminae of silty clay-rich diatom ooze and diatom-bearing silt. Color: olive-brown. Rhythmic laminations are present in section 1 and consist of slightly lighter and darker color variations, with lighter colored laminae consisting of silty-clay rich diatom ooze and darker-colored laminae with diatom-bearing silt. Pinstripe lamination of diatom-bearing silt are present as well. Sparse biotubation is visible in the rhythmically laminated intervals in section 1. One clast of 5.5 cm is present, subrounded in shape, of a red metamorphic? lithology; other clasts are granule or pebbe-sized < 1 cm of a variety of lithologies.



Core Photo

Hole 318-U1356A Core 21R, Interval 191.3-193.85m (CSF-A)

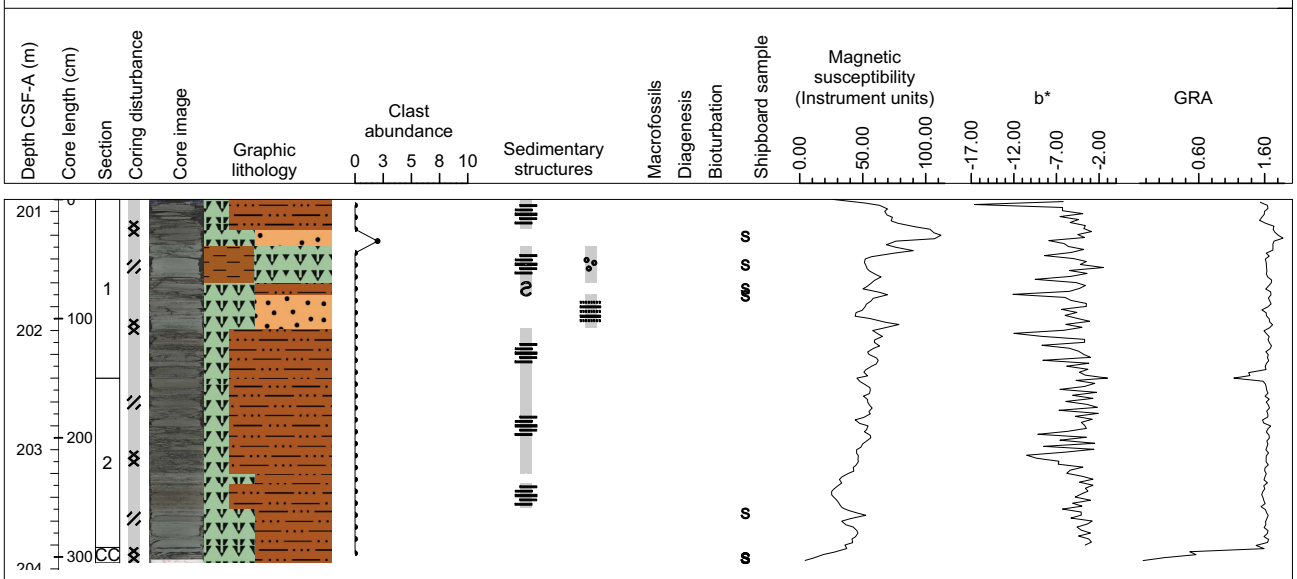
DIATOM BEARING SILTY CLAY WITH DISPERSED CLASTS. Minor diatom-rich silty clay. Dark Olive Green colour. Some light-greenish grey soft sediment deformed laminae thoughout (contorted bedding). One clast >2cm is present, diorite rounded in shape. A short parallel laminated interval with silt-sized pinstripe laminaeis present at 60-65.



Core Photo

Hole 318-U1356A Core 22R, Interval 200.9-203.95m (CSF-A)

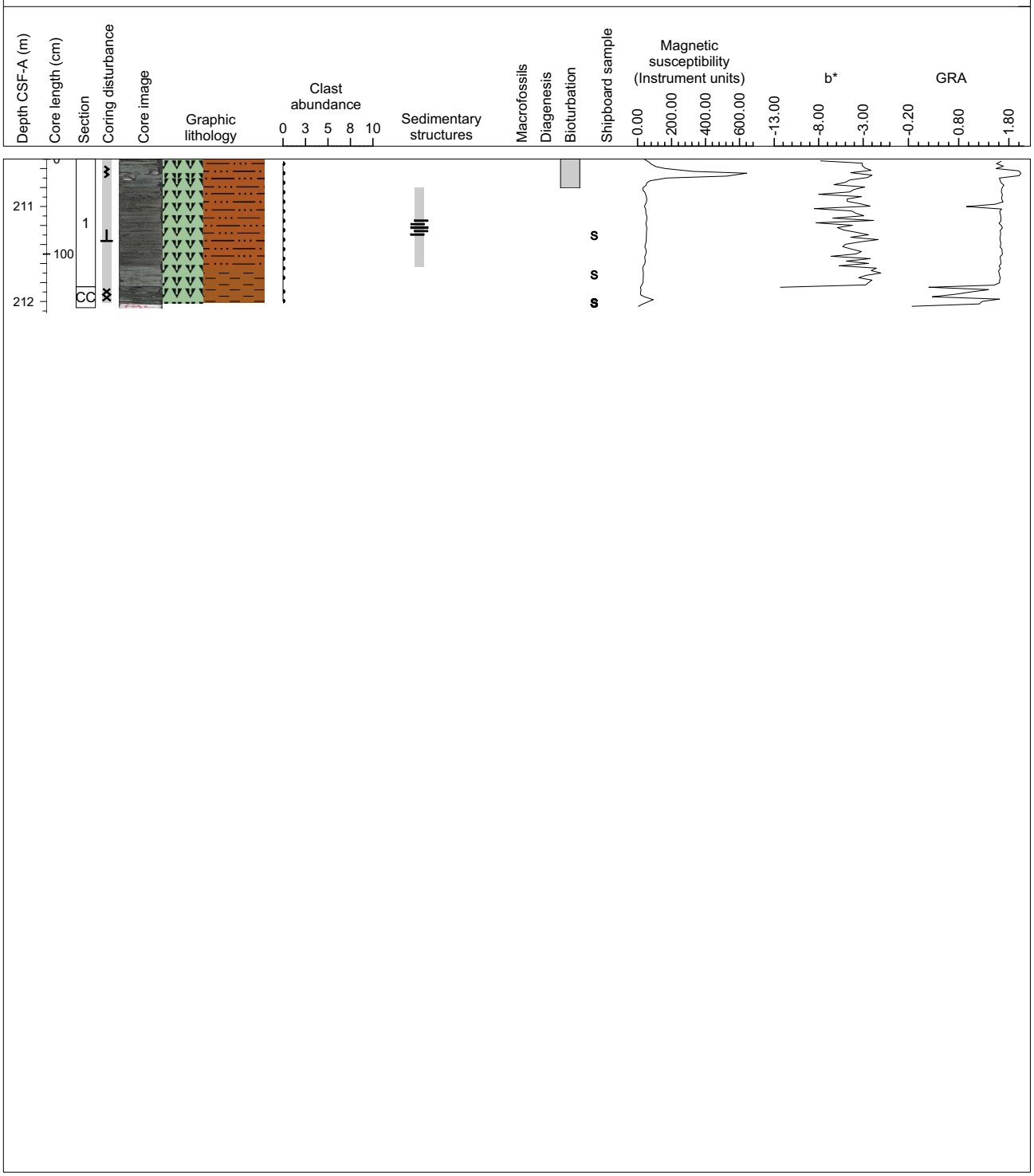
DIATOM-BEARING SILTY CLAY AND CLAY RICH DIATOM OOZE. The diatom bearing silty clays are parallel laminated with planar pinstripe laminations of silt and and have dark olive grey colour. The clay-rich diatom ooze is sparsely bioturbated and contains abundant dispersed sand grains and nests. It has a light greenish grey colour.



Core Photo

Hole 318-U1356A Core 23R, Interval 210.5-212.065m (CSF-A)

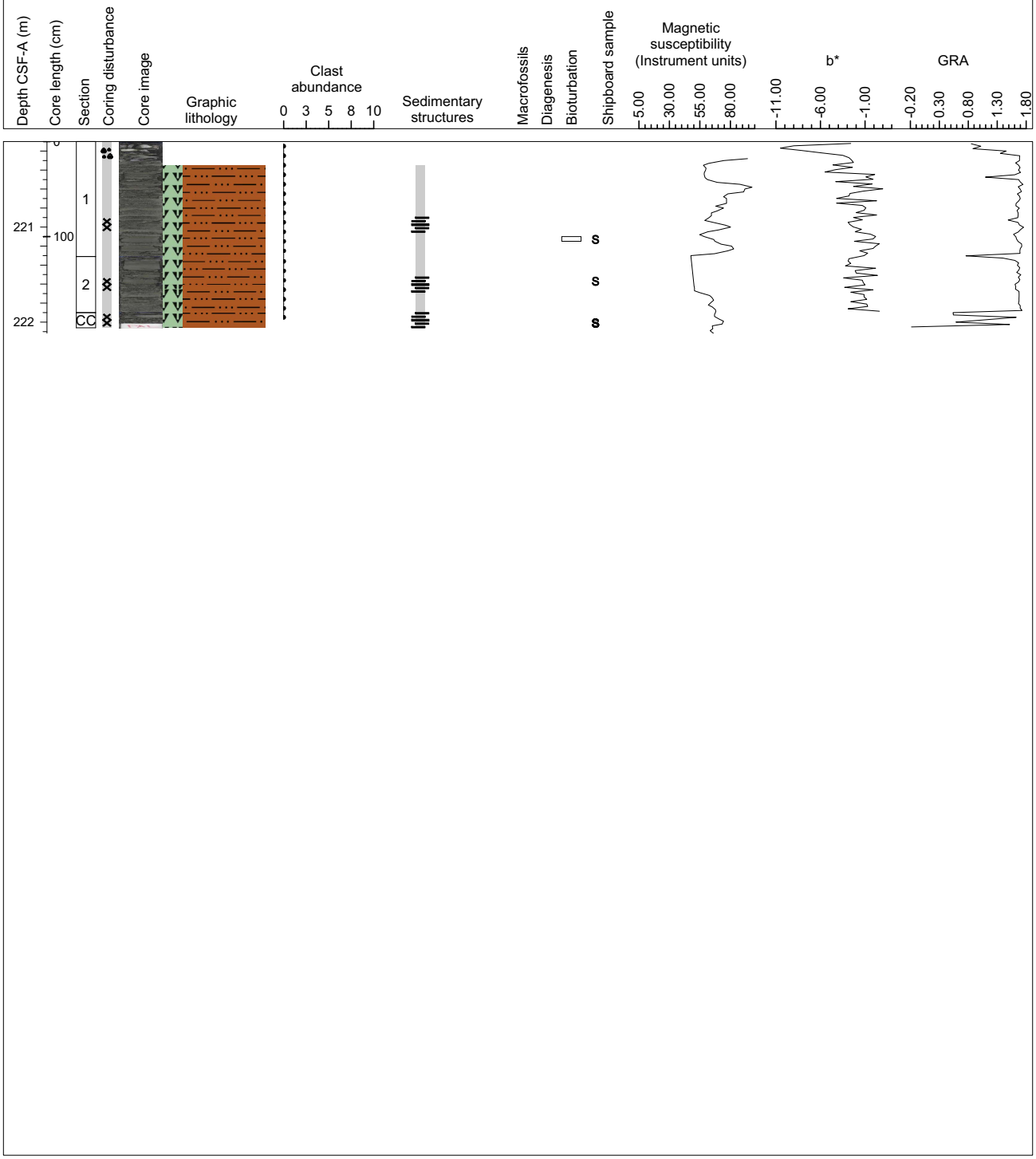
DIATOM-RICH SILTY CLAY AND DIATOM RICH CLAY. The diatom rich silty clays are parallel laminated with planar pinstripe laminations of silt and have dark olive-grey colour. The diatom rich clay is locally bioturbated and contains dispersed sand grains. It has greenish grey colour. Isolated clast are present in this facies with granite lithology, subrounded shape and are size up to 3cm.



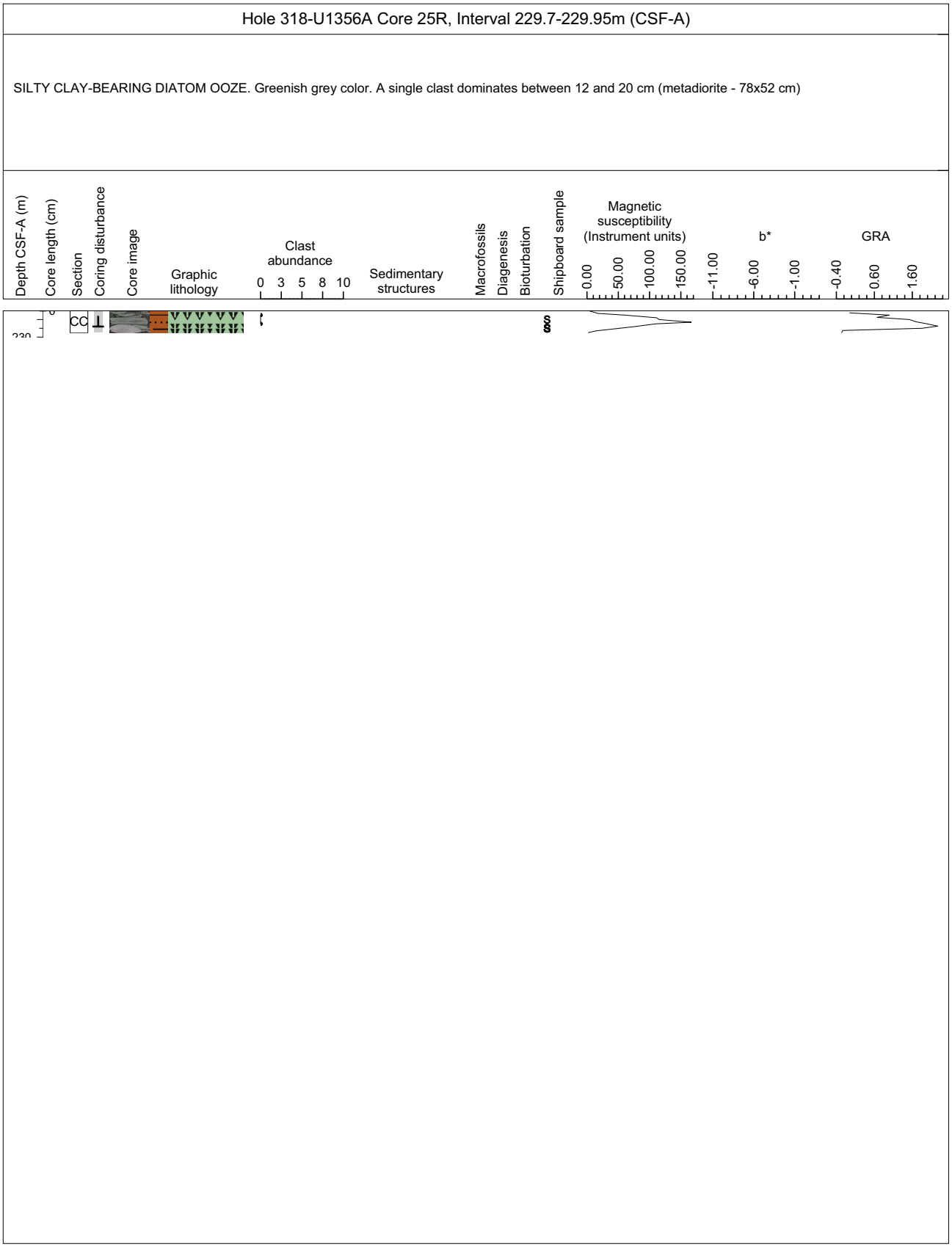
Core Photo

Hole 318-U1356A Core 24R, Interval 220.1-222.06m (CSF-A)

DIATOM-BEARING SILTY CLAY. Dark olive grey diatom-bearing silty clay that is parallel (pinstripe) laminated. Pinstripe laminae are lighter in color and are less than 1-mm thick. Bioturbation is absent through most of the core, expect in the lower part of section 1, where it is sparse. Numerous cobbles and pebbles of various lithologies occur in the upper 25 cm and are interpreted as core fall-back (not logged as a lithology).



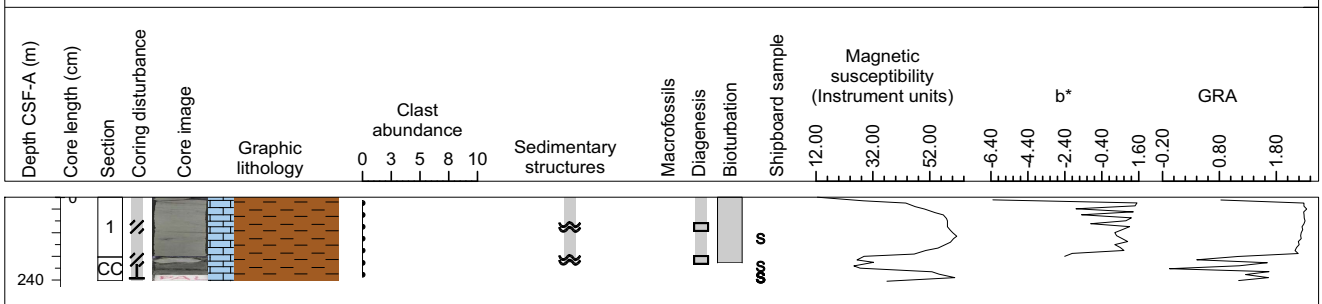
Core Photo


Hole 318-U1356A Core 25R, Interval 229.7-229.95m (CSF-A)
SILTY CLAY-BEARING DIATOM OOZE. Greenish grey color. A single clast dominates between 12 and 20 cm (metadiorite - 78x52 cm)
Depth CSF-A (m)
Core length (cm)
Section
Coring disturbance
Core image
Graphic lithology
Clast abundance
0 3 5 8 10
Sedimentary structures
Macrofossils
Diagenesis
Bioturbation
Shipboard sample
Magnetic susceptibility (Instrument units)
0.00 50.00 100.00 150.00
b*
-11.00 -6.00 -1.00
GRA
-0.40 0.60 1.60
CC

Core Photo

Hole 318-U1356A Core 26R, Interval 239.3-240.005m (CSF-A)

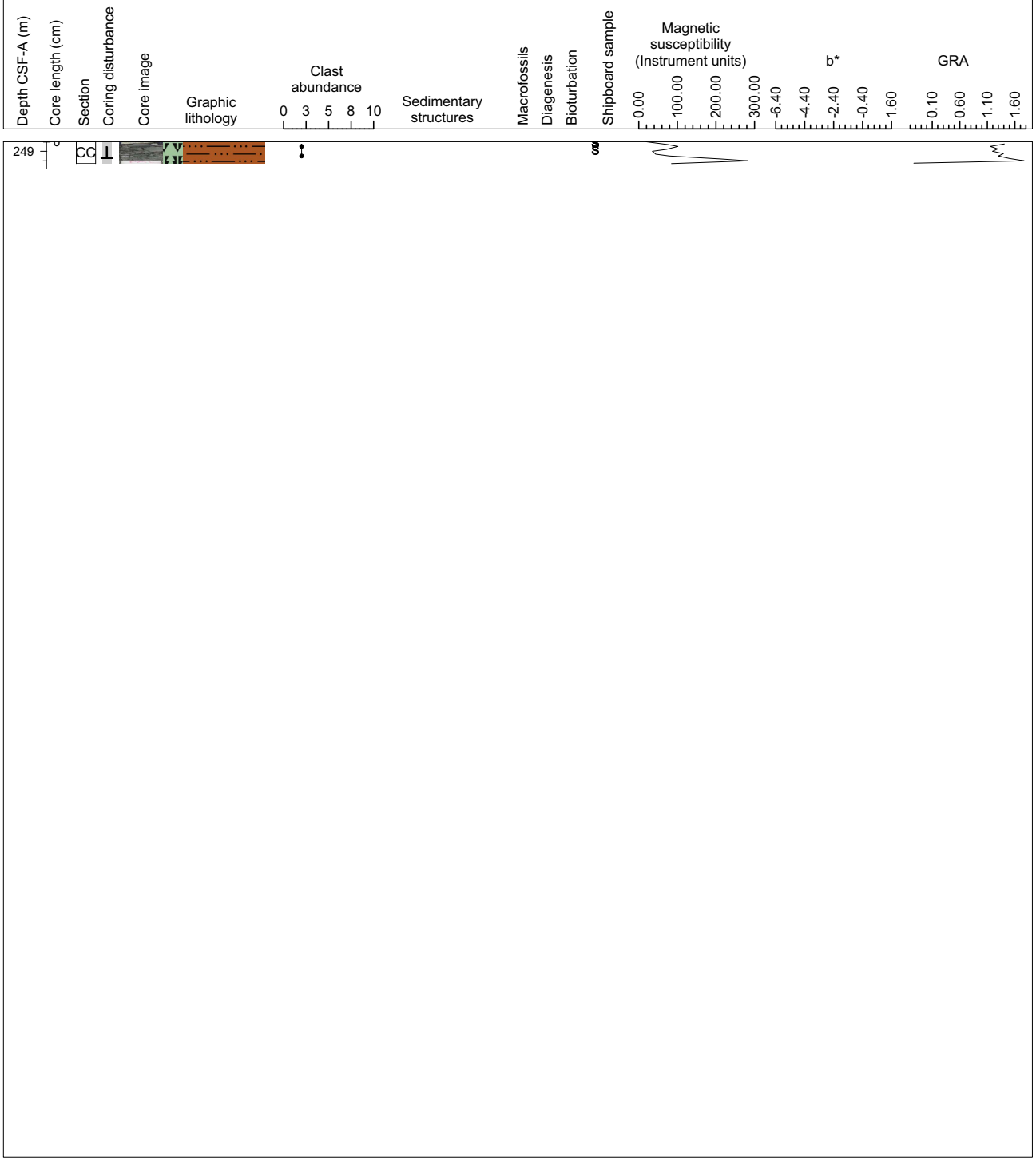
CARBONATE CEMENTED CLAYSTONE. Indurated clay with carbonate cement (20% micrite in smear slides + HCL reaction). 1/2 mm thick subhorizontal calcite viens. Microfaulting. Burrow features (5-mm scale burrows with backfill). Faint wavey laminae throughout. This is possibly a boulder sized clast?
Lowermost 15cm of core catcher is diatom-bearing silty clay with dispersed clasts (various lithologies).



Core Photo

Hole 318-U1356A Core 27R, Interval 248.9-249.13m (CSF-A)

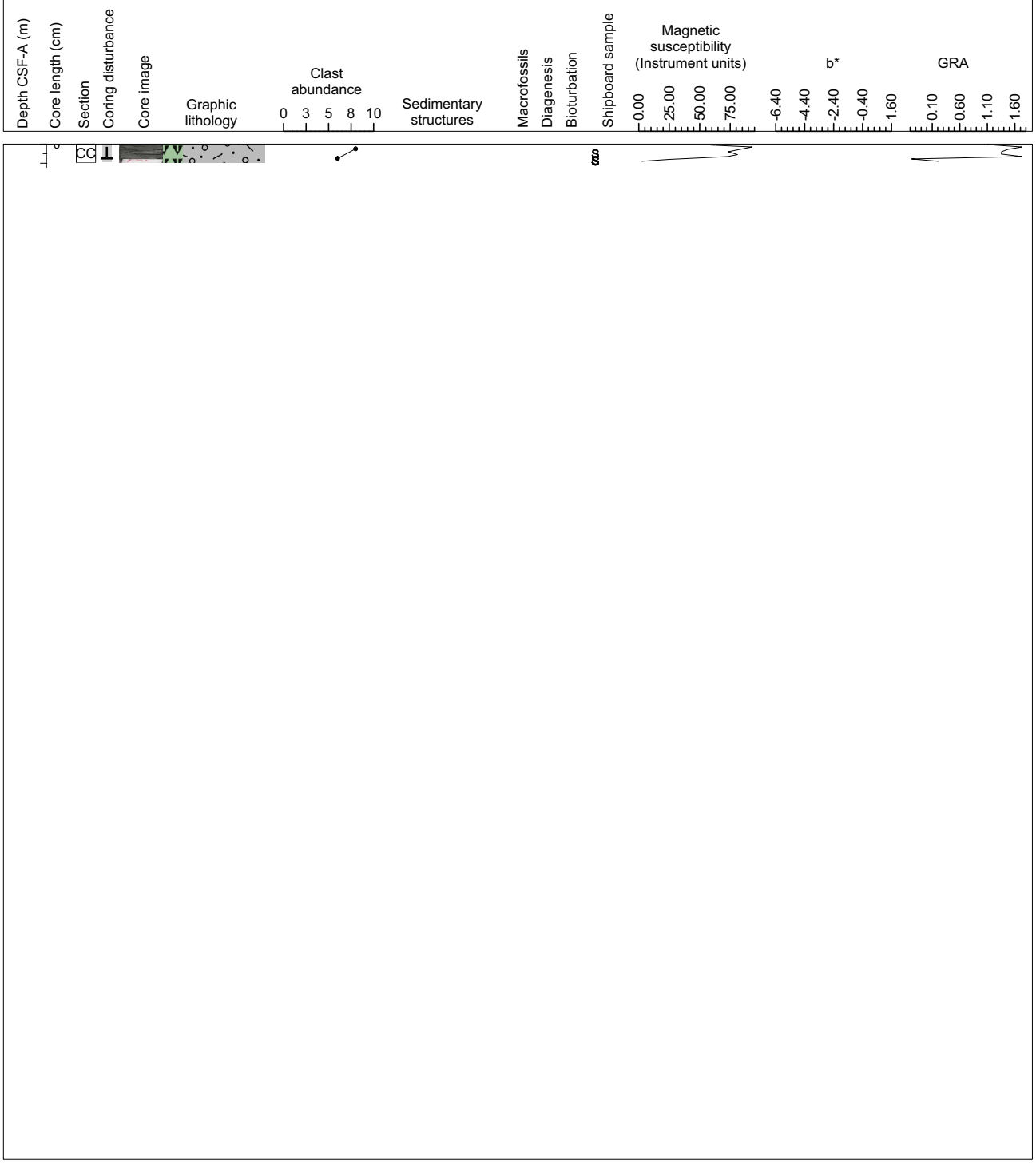
DIATOM-BEARING SILTY CLAY WITH COMMON CLASTS. Clasts make up ~2% and are of various lithologies - granitie, metadiorite, intraclasts. fractured due to drilling disturbance.



Core Photo

Hole 318-U1356A Core 28R, Interval 258.4-258.59m (CSF-A)

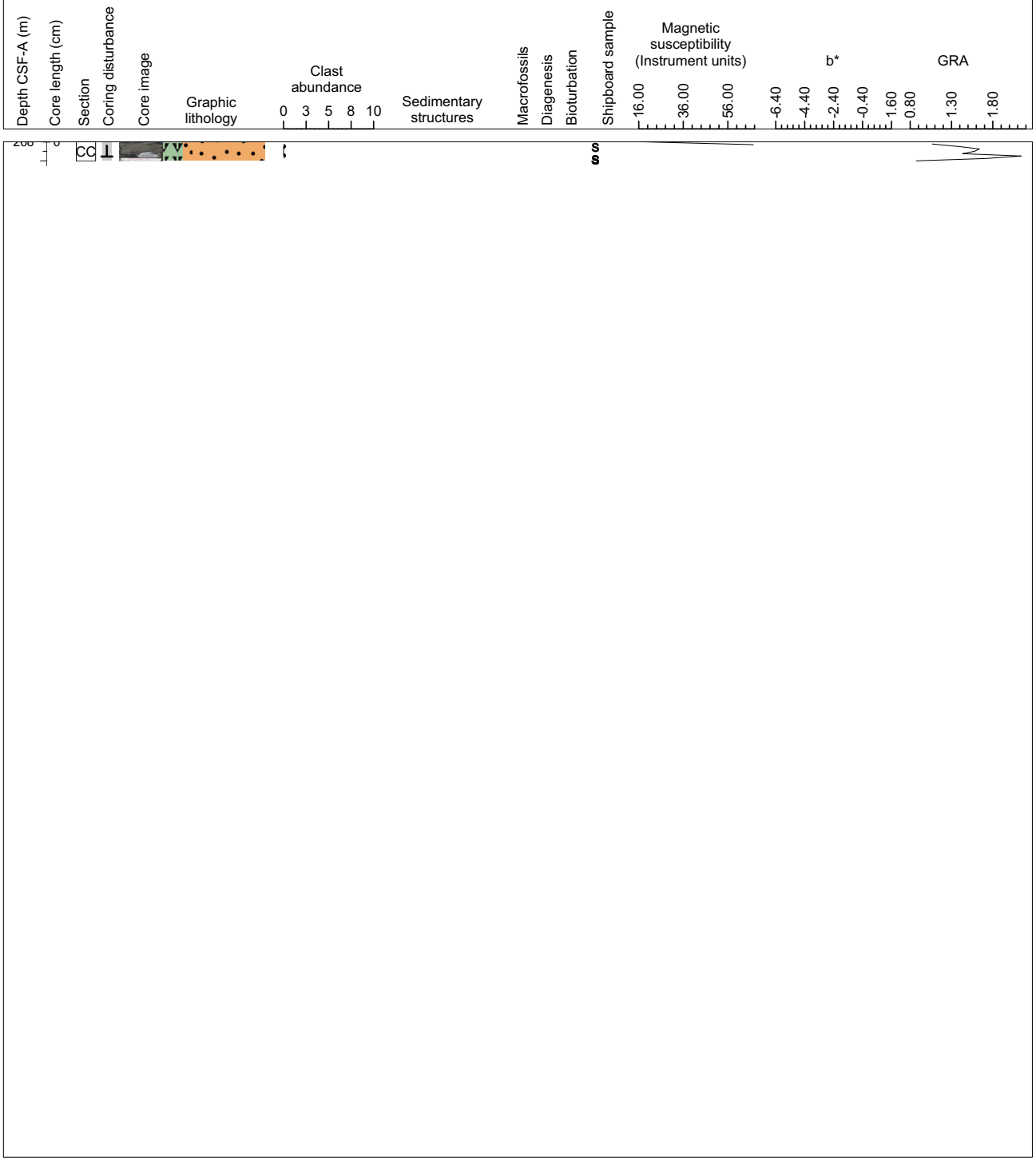
DIATOM-BEARING CLAST POOR MUDDY DIAMICTITE. Clasts consist of quartz, feldspar, and granite. Intraclasts (deformed beds?) are highly deformed - possibly due to drilling disturbance.



Core Photo

Hole 318-U1356A Core 29R, Interval 268.0-268.2m (CSF-A)

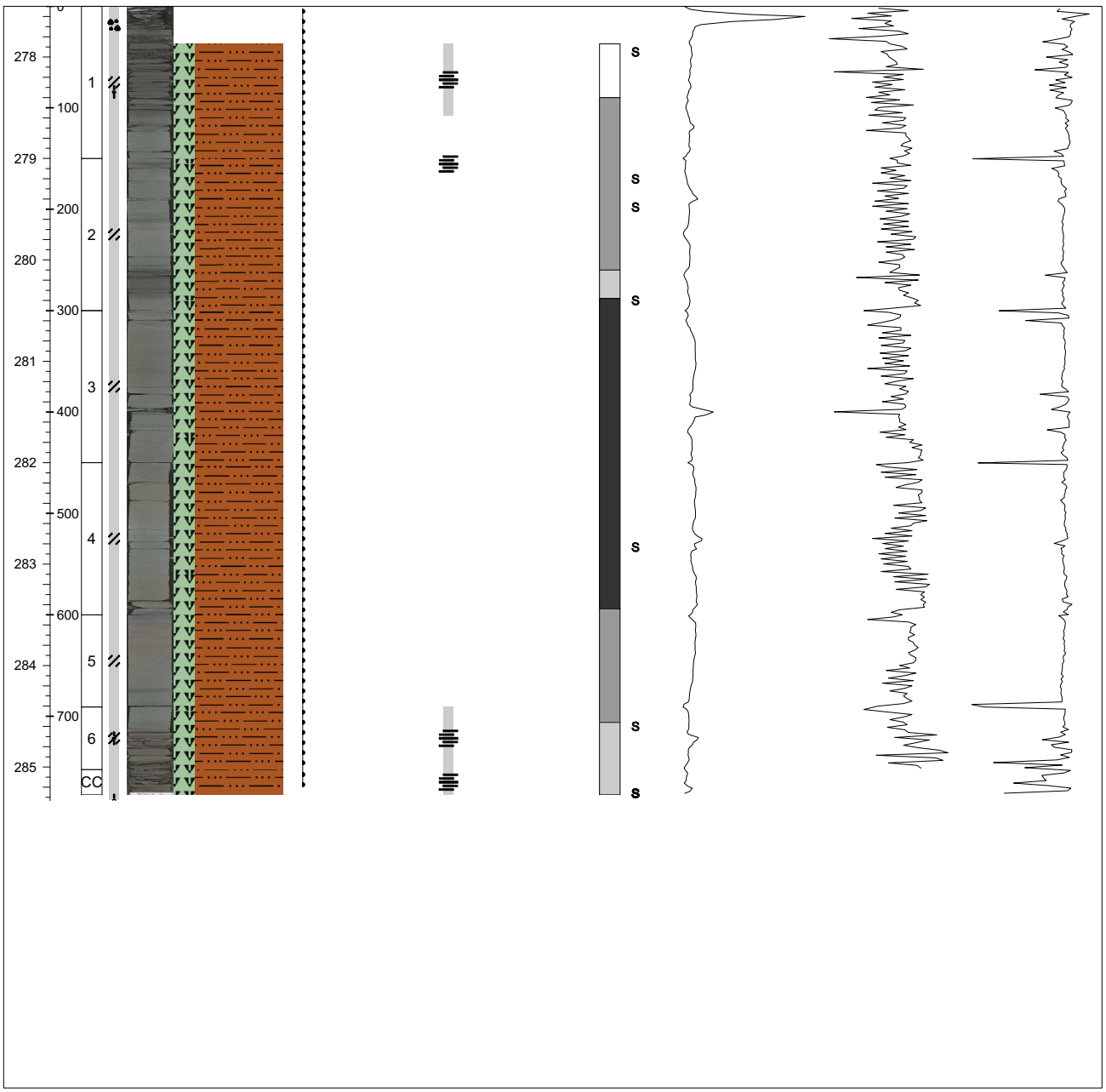
DIATOM-BEARING SILTY CLAY WITH COMMON CLASTS. Matrix is olive grey color. Clasts include rounded to angular granite and gneiss.



Core Photo

Hole 318-U1356A Core 30R, Interval 277.5-285.275m (CSF-A)

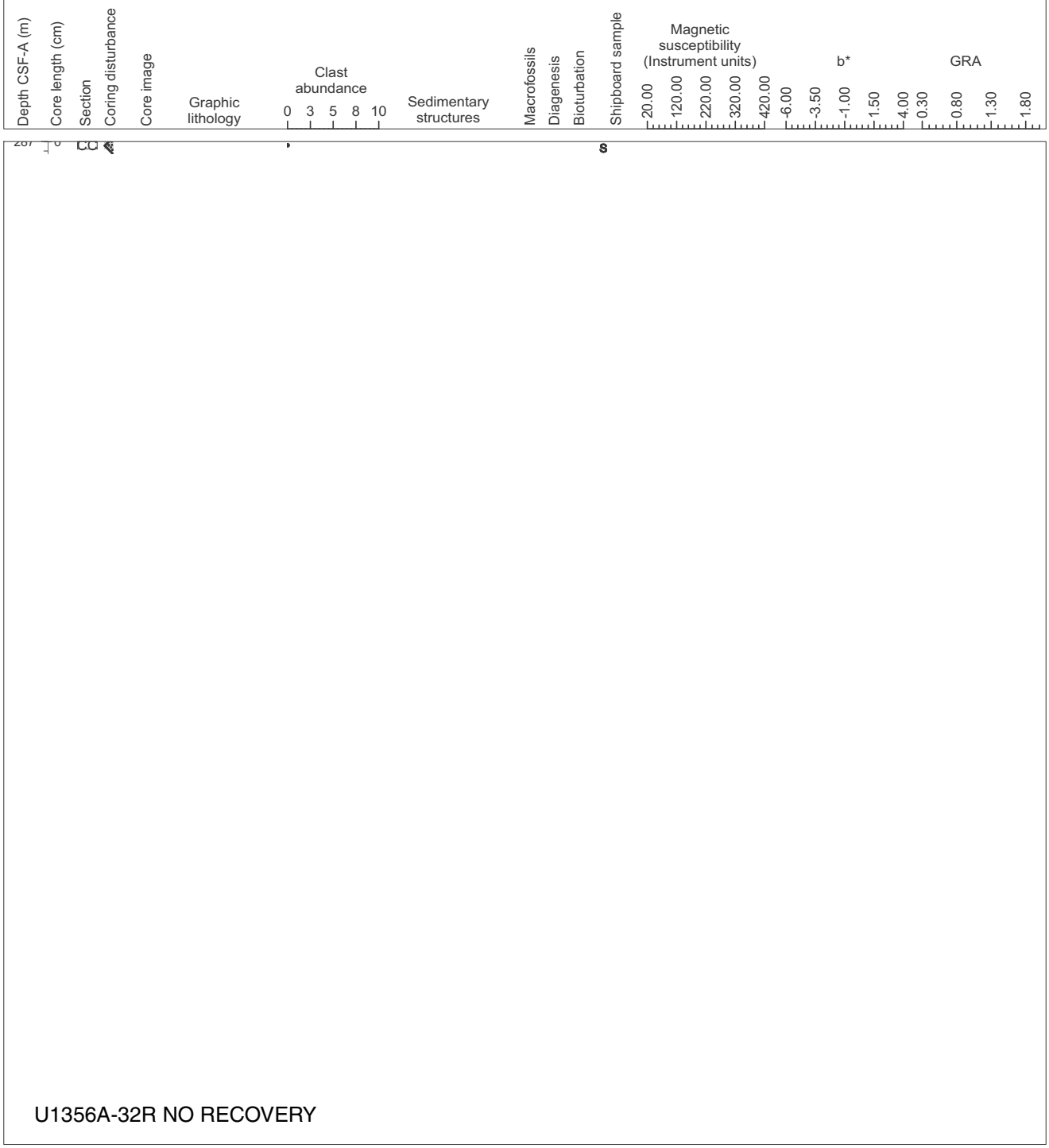
DIATOM-BEARING SILTY CLAY WITH PERVASIVE BIOTURBATION. Light olive grey color. Contains dm-scale bedding, but bioturbation has homogenized the sedimentary structure in most of this interval. Smear slides indicate 3-5% nanofossils, and 10-20% diatoms. 1/2 cm scale horizontal burrows display back fill (Planolites?), as well as some chondrites. The upper part of section 1 and lower-most interval of section 6 contains diatom-bearing silty clay with well-defined pinstripe laminations, and sparse bioturbation. Lacks outsized clasts.



Core Photo

Hole 318-U1356A Core 31R, Interval 287.0-287.08m (CSF-A)

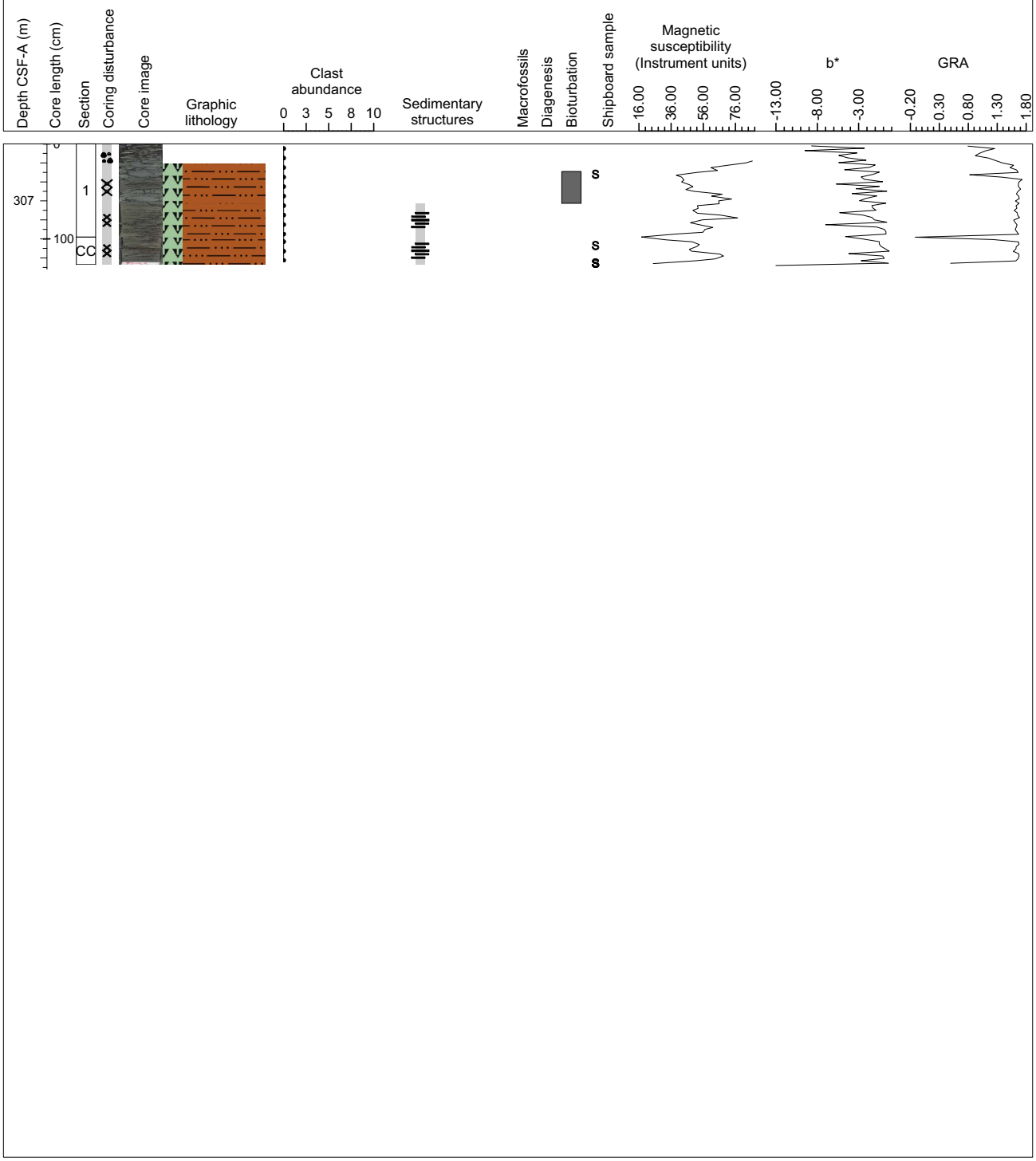
THREE PEBBLE CLASTS. Core catcher material contained three pebble clasts only, one granite and two metasedimentary pebbles. No matrix.
CORE DISTURBED. 5-8 cm interval collected for pal analysis. NO LITHOLOGY ASSIGNED TO THIS INTERVAL



Core Photo

Hole 318-U1356A Core 33R, Interval 306.4-307.67m (CSF-A)

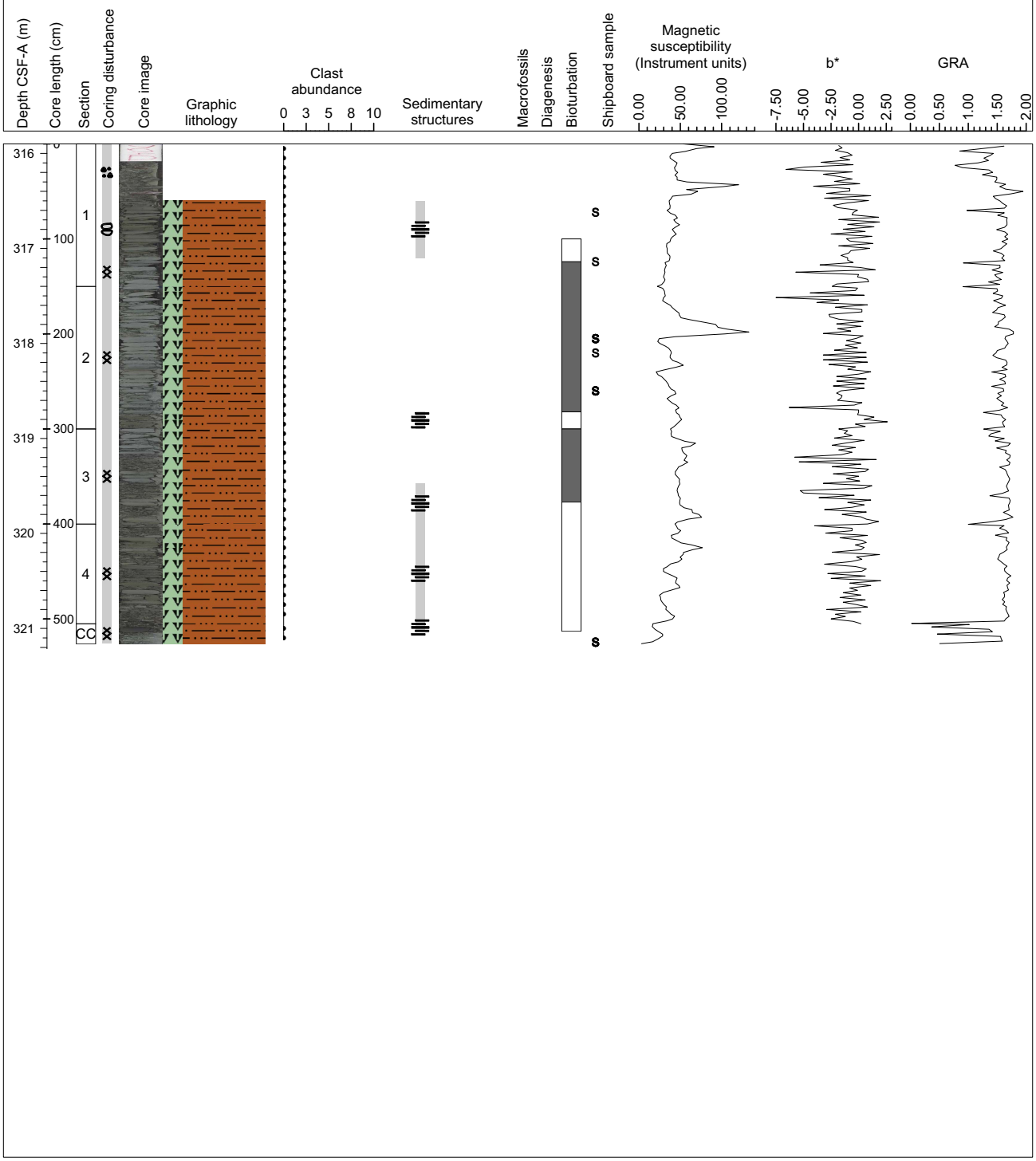
DIATOM-BEARING SILTY CLAY. Olive brown color with mm- to 1-cm scale laminae as defined by colour changes. Thin light colour bands are clay-rich diatom ooze. Uppermost 62 cm of section 1 contains light olive grey diatom-bearing silty clay with common bioturbation. Entire core is highly fractured with zones of drilling-induced slurry.



Core Photo

Hole 318-U1356A Core 34R, Interval 315.9-321.16m (CSF-A)

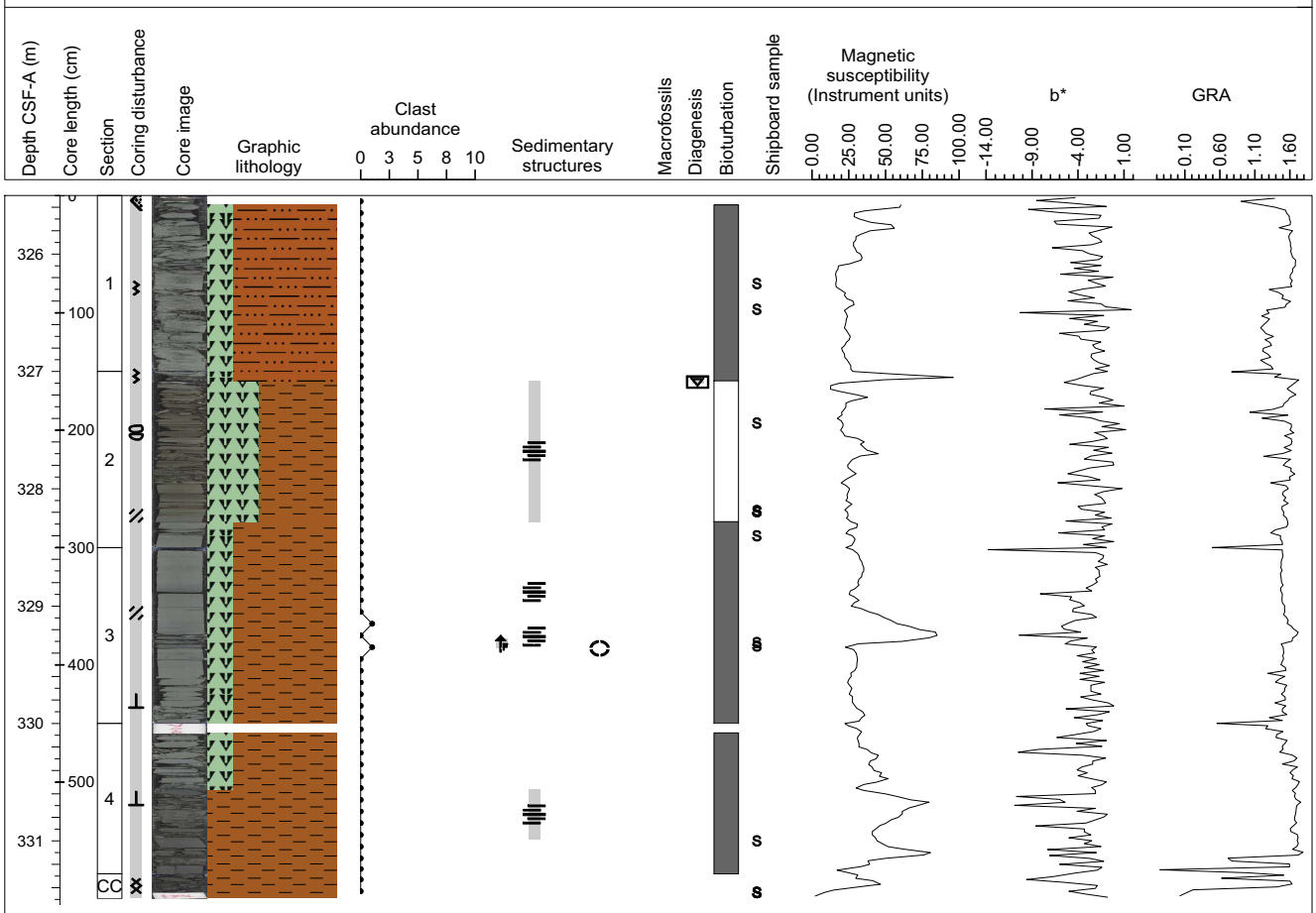
DIATOM-RICH SILTY CLAY. Interbeds of laminated diatom-rich silty clay (olive brown) and bioturbated diatom-rich silty clay (olive grey) . The laminated intervals are characterized by mm-scale laminae to cm-scale beds as defined by colour changes. The bioturbated intervals have poorly defined laminations due to common bioturbation. Lacking clasts.



Core Photo

Hole 318-U1356A Core 35R, Interval 325.5-331.49m (CSF-A)

DIATOM-BEARING SILTY CLAY, DIATOM-RICH CLAY, AND DIATOM BEARING CLAY. Colours of these lithologies are light greenish grey, olive brown and dark olive brown respectively. The diatom-rich clay is laminated with higher diatom abundances in the lighter coloured laminae. The interval is sparse to commonly bioturbated. Clasts are present, but fall in is suspected. One silica cemented horizon was observed.

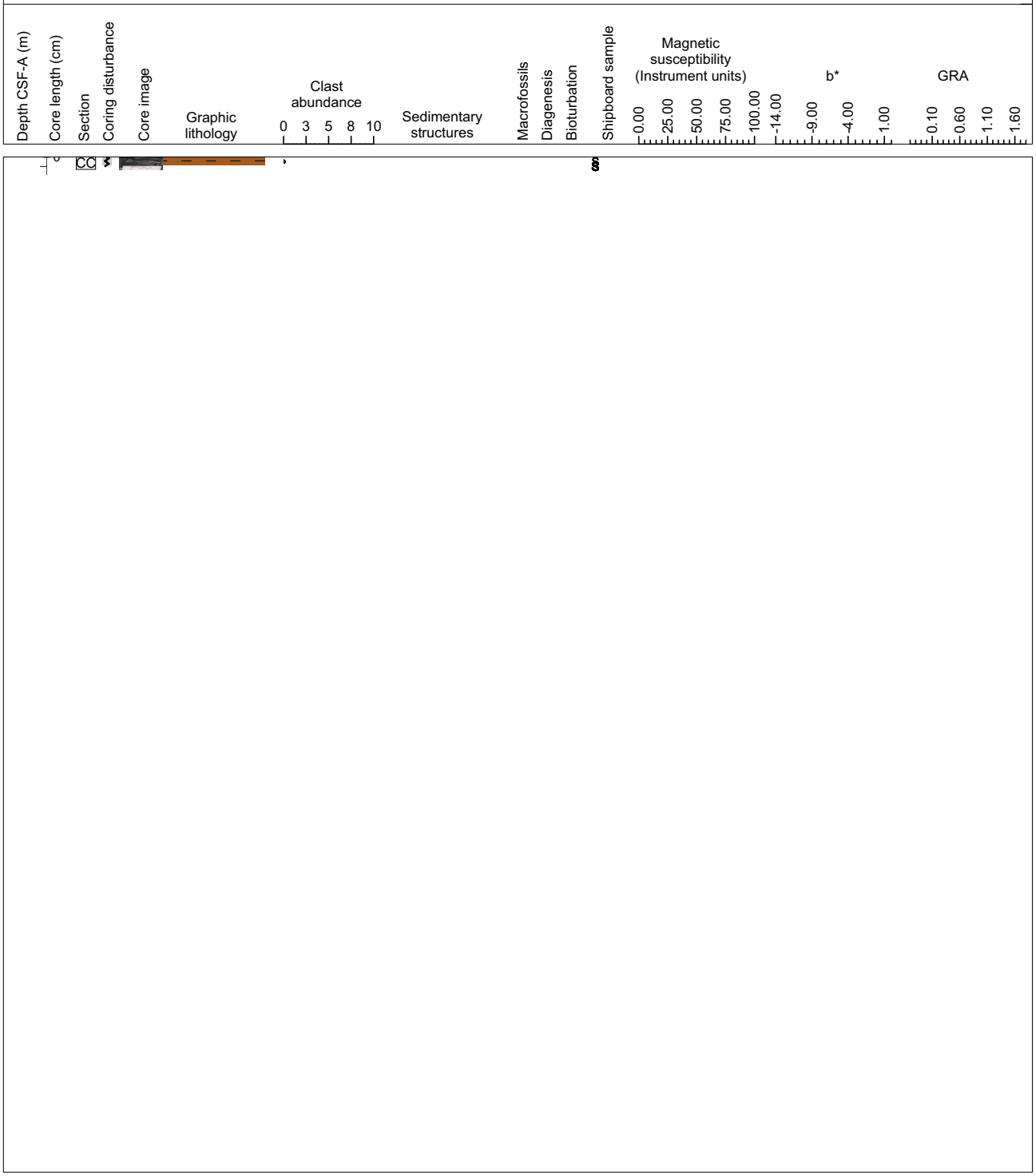


U1356A-36R ALL TO PALEO

Core Photo

Hole 318-U1356A Core 37R, Interval 344.7-344.83m (CSF-A)

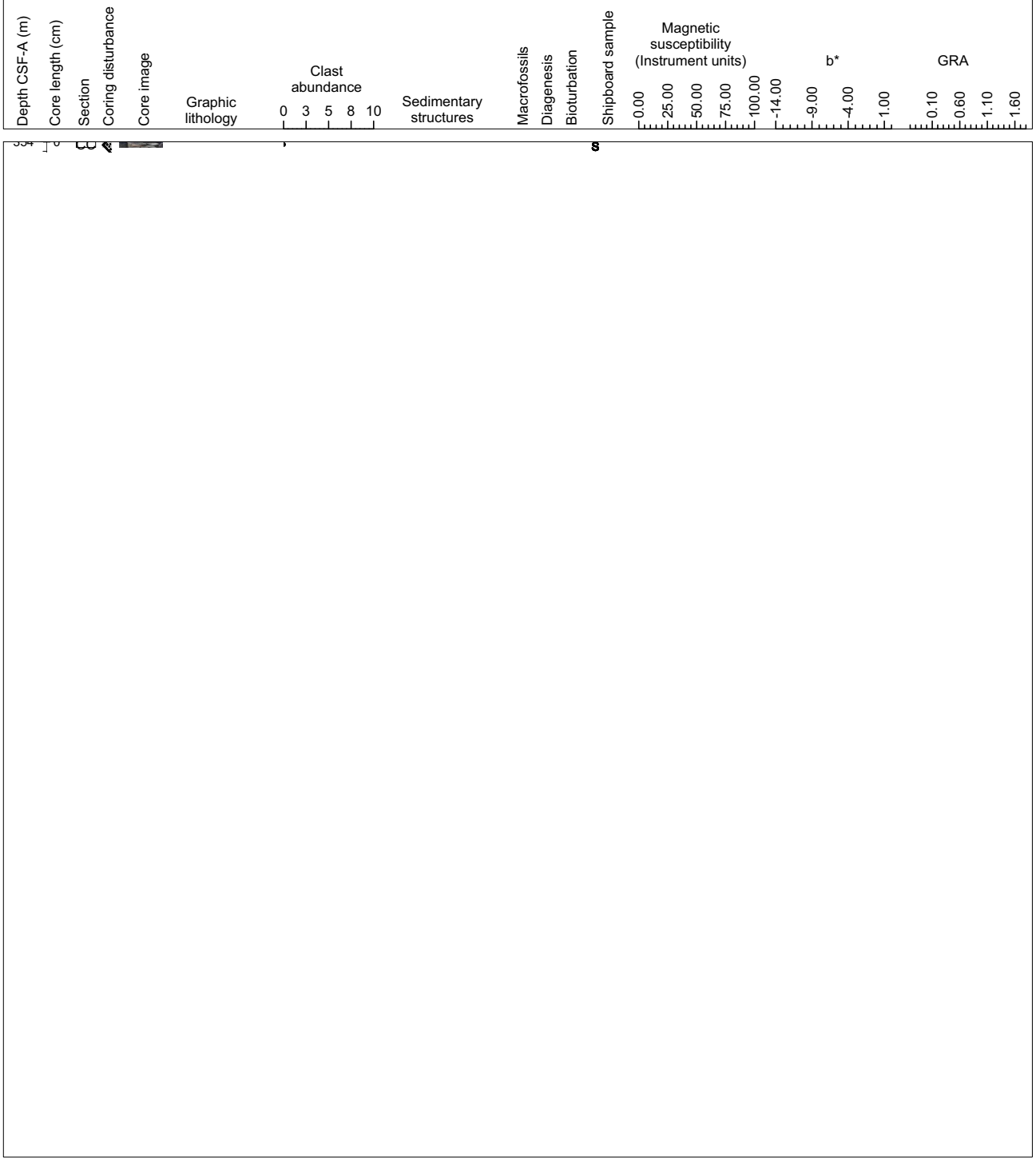
DARK GREENISH GREY CLAY WITH DISPERSED CLASTS. Extremely disturbed by drilling.



Core Photo

Hole 318-U1356A Core 38R, Interval 354.0-354.06m (CSF-A)

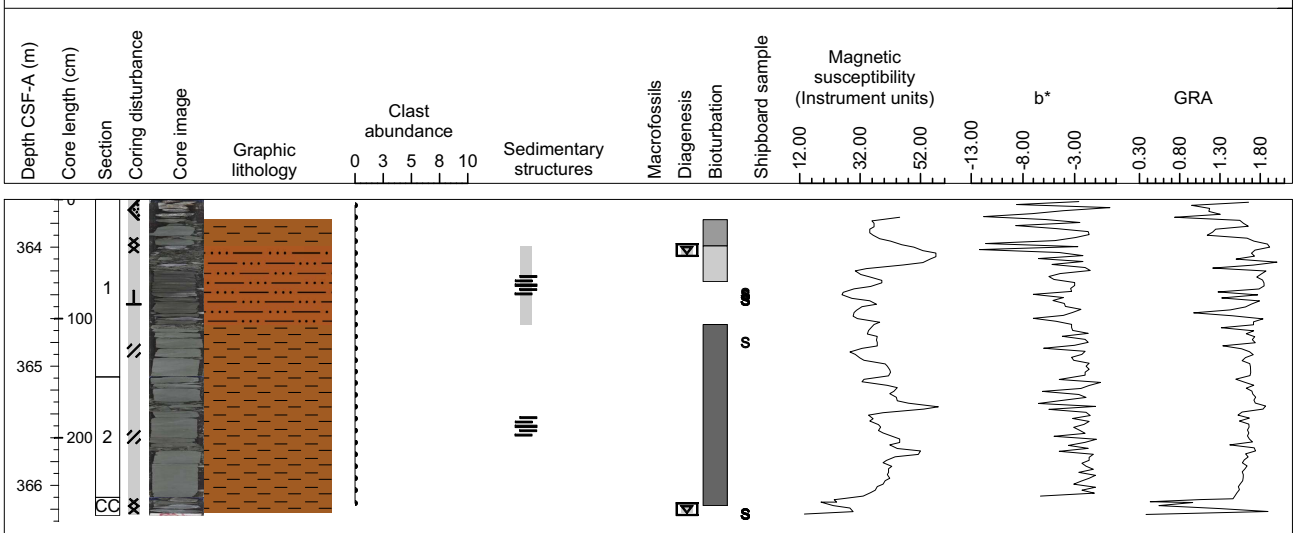
Washed pebbles. Three diorite gneiss, one granite clast. Possible fall-in.



Core Photo

Hole 318-U1356A Core 39R, Interval 363.6-366.25m (CSF-A)

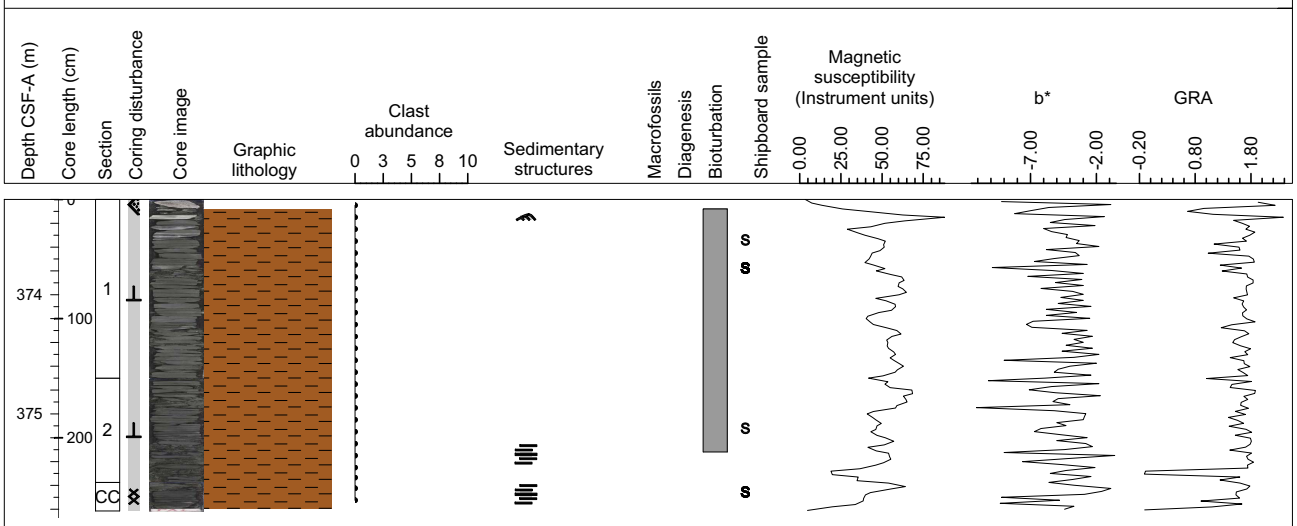
CLAY. Light greenish clay commonly bioturbated clay, interbedded with dark olive brown clay with silt laminae. The dark olive brown clay has silica cemented intervals, particularly at the top of each unit. Some washed pebbles present at the top, most likely fall-in.



Core Photo

Hole 318-U1356A Core 40R, Interval 373.2-375.815m (CSF-A)

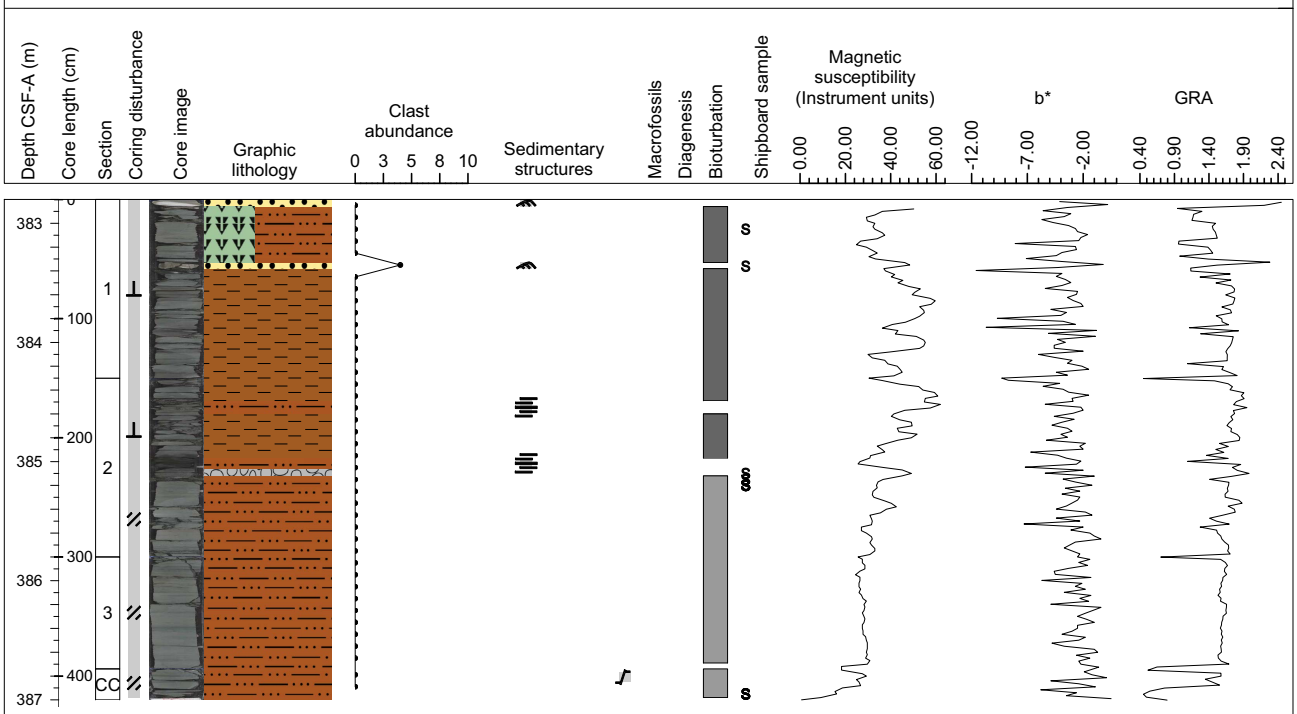
CLAY. Dark greenish grey bioturbated clay interbedded with dark olive brown clay with pinstripe silt laminations. A 4cm thick bed of ripple-crossed laminated fine sandstone is present within the dark greenish grey clay as well.



Core Photo

Hole 318-U1356A Core 41R, Interval 382.8-387.0m (CSF-A)

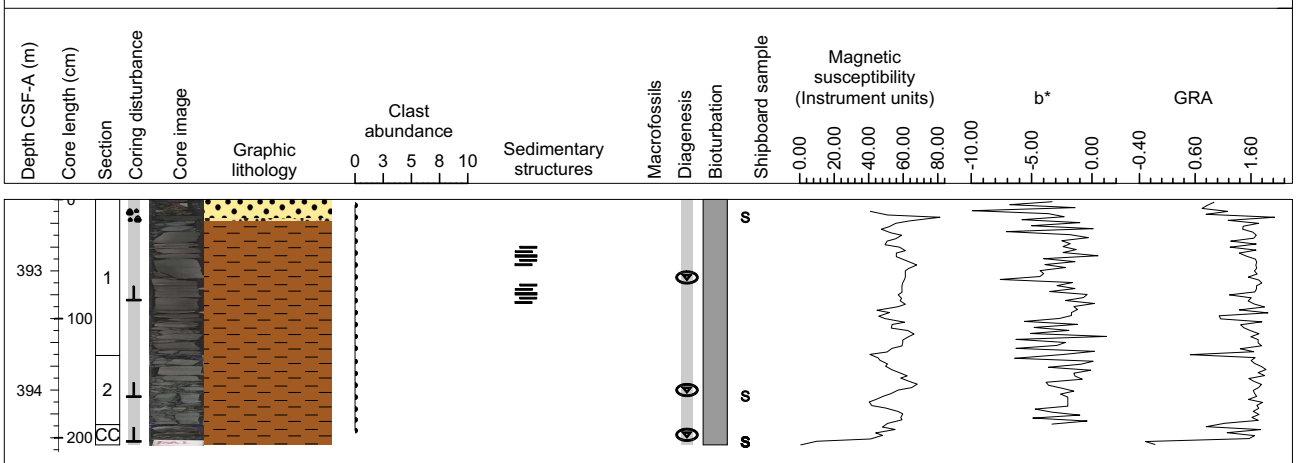
DIATOM-RICH SILTY CLAY AND SILTY CLAY. Greenish grey bioturated clay interbedded with yellowish grey dm-thick ripple crosss-laminated sandstones and pinstnple laminated claystones. Sandstone beds are carbonated-cemented. One syn-sedimentrary microfault is present as well.



Core Photo

Hole 318-U1356A Core 42R, Interval 392.4-394.46m (CSF-A)

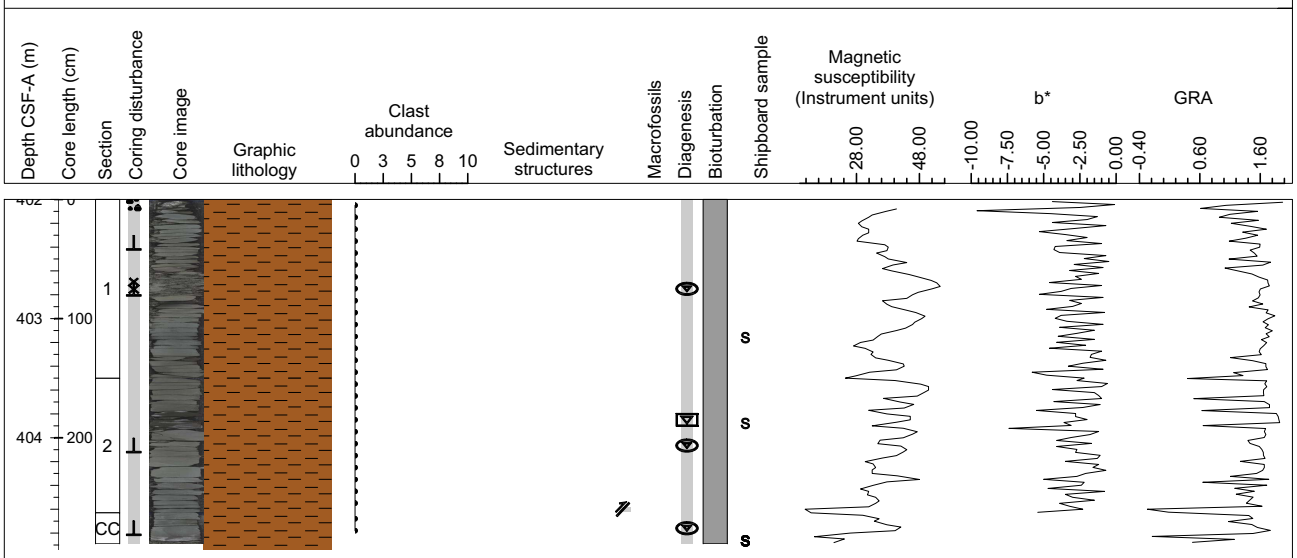
CLAYSTONE. Olive grey color. Lithified and moderately bioturbated with sub-mm-scale, sub-horizontal black blebs indicative of opalA-opal CT conversion (porcelanite or chert?). Occasional cm-scale burrows. Smear slides show absence of diatom and sponge remains yet clay and small silt-size particles are featureless and isotropic indicating silica diagenesis. One darker cm-scale layer at 41-42 cm indurated with conchordial fracture texture at surface. Uppermost most unit is a 3-cm thick indurated and laminated silt to fine sand.



Core Photo

Hole 318-U1356A Core 43R, Interval 402.0-404.89m (CSF-A)

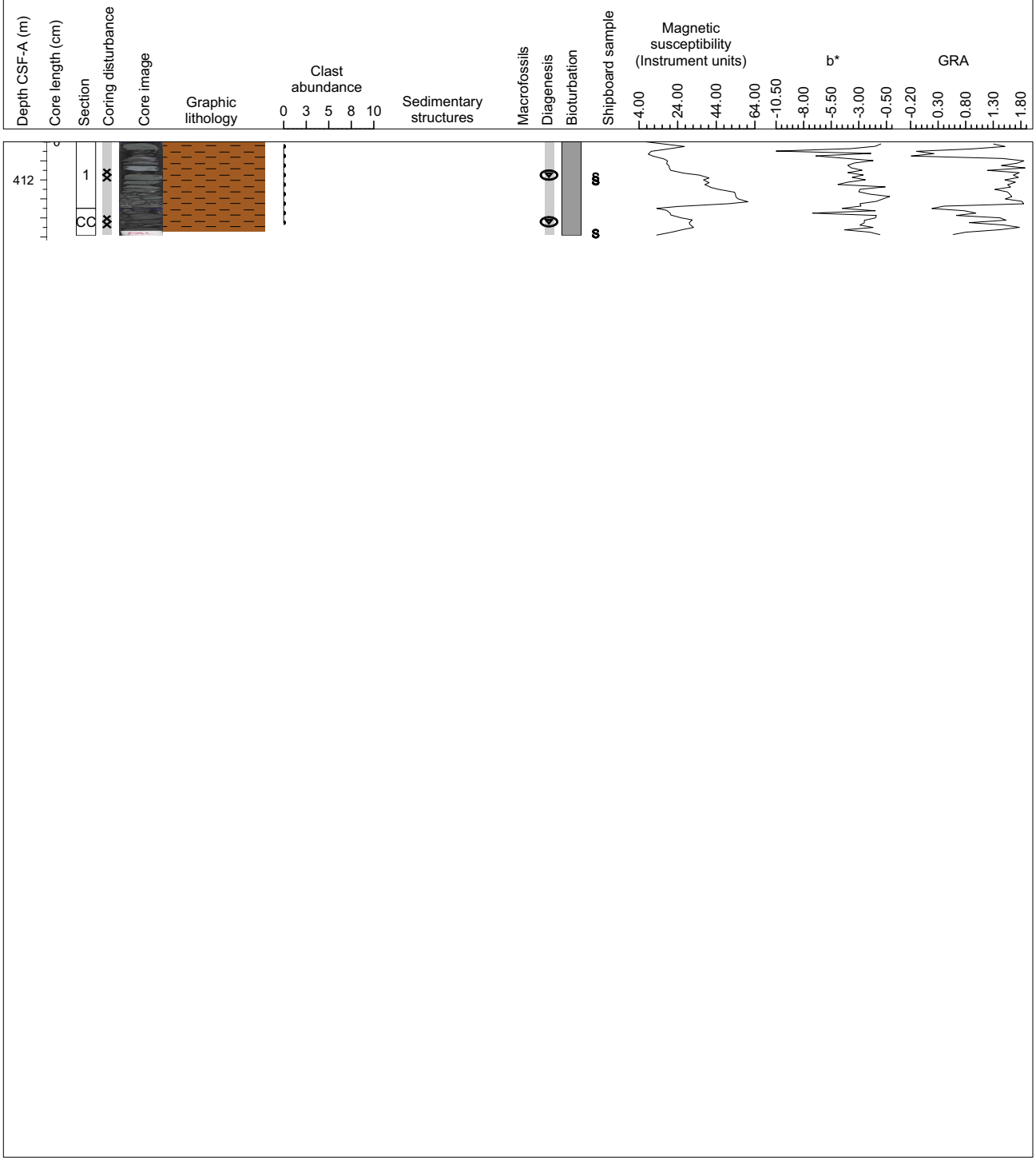
CLAYSTONE. Olive grey color. Lithified and moderately bioturbated with sub-mm-scale, sub-horizontal black blebs indicative of opalA-opal CT conversion (porcelanite or chert?). Occasional cm-scale burrows. Smear slides show absence of diatom and sponge remains yet clay and small silt-size particles are amorphous and isotropic indicating silica diagenesis.



Core Photo

Hole 318-U1356A Core 44R, Interval 411.6-412.58m (CSF-A)

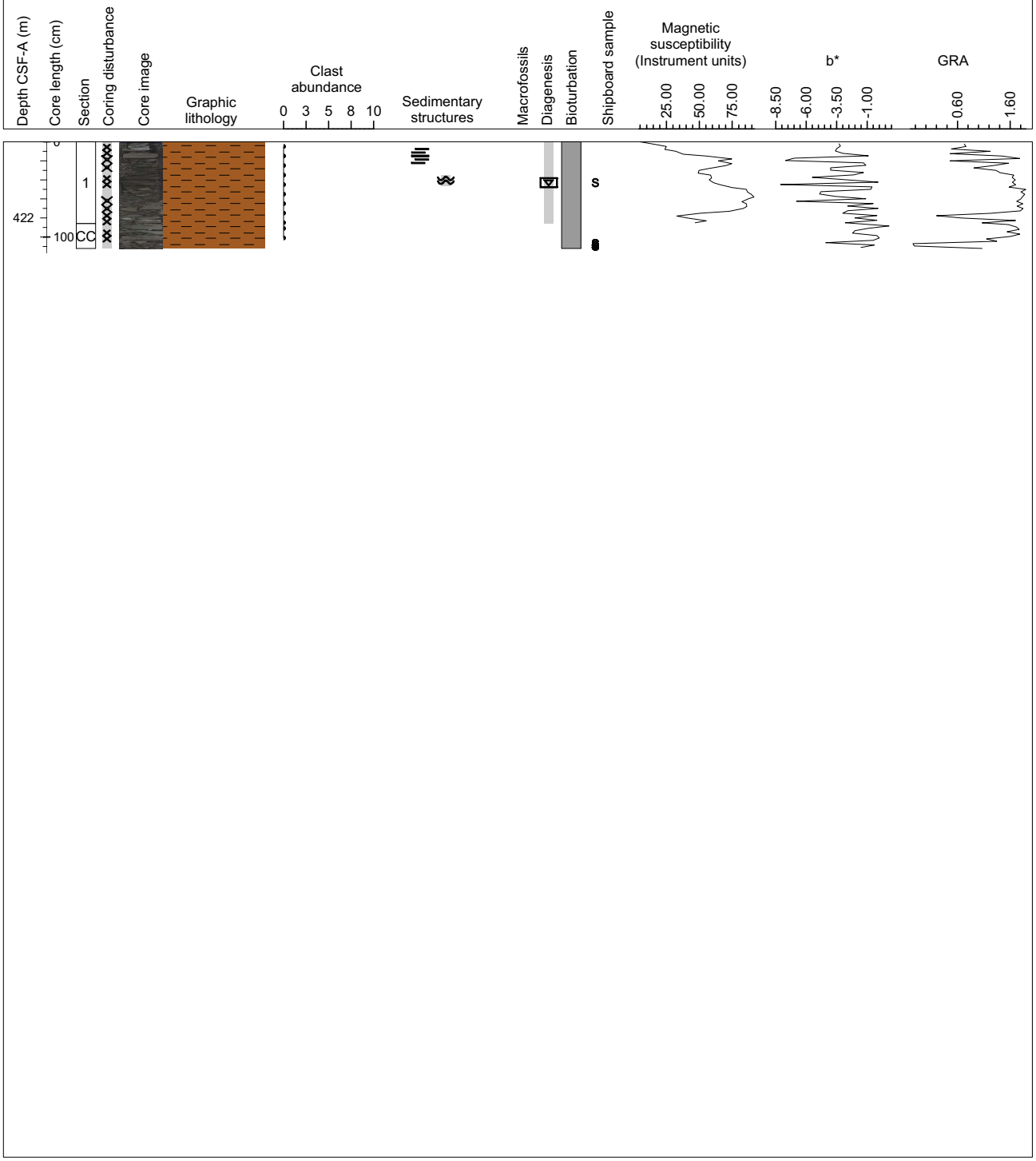
CLAYSTONE. Lithified and moderately bioturbated with sub-mm-scale, sub-horizontal black blebs indicative of opalA-opal CT conversion (porcelanite or chert?). Occasional cm-scale horizontal burrows, and one vertical cm-scale burrow with back fill. Smear slides indicate an 1-2% diatoms, yet clay and small silt-size particles are amorphous and isotropic indicating silica diagenesis. Smear slides also show ~5% nannofossils



Core Photo

Hole 318-U1356A Core 45R, Interval 421.2-422.32m (CSF-A)

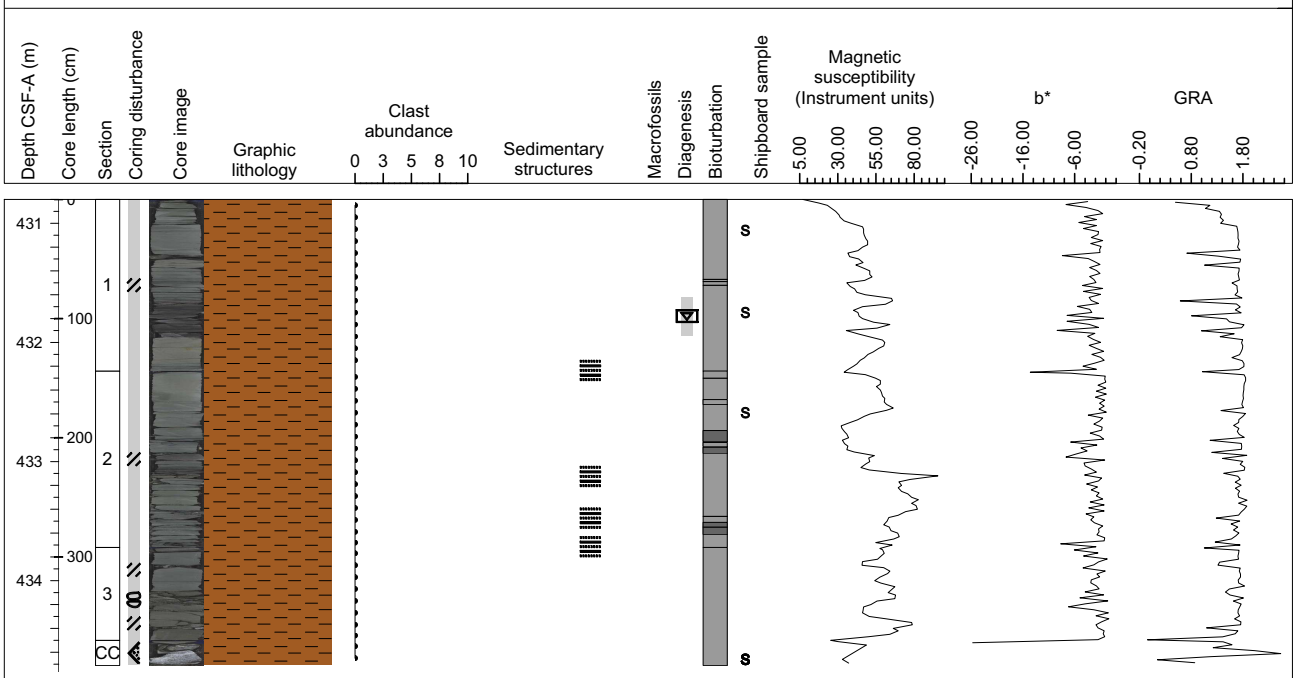
CLAYSTONE Olive brown color. Indurated with mm-scale laminae. Contains mm-scale laminae and burrows. One subhorizontal, light-colored cm-scale burrow lacking backfill. Core catcher material is similar but is less lithified.



Core Photo

Hole 318-U1356A Core 46R, Interval 430.8-434.71m (CSF-A)

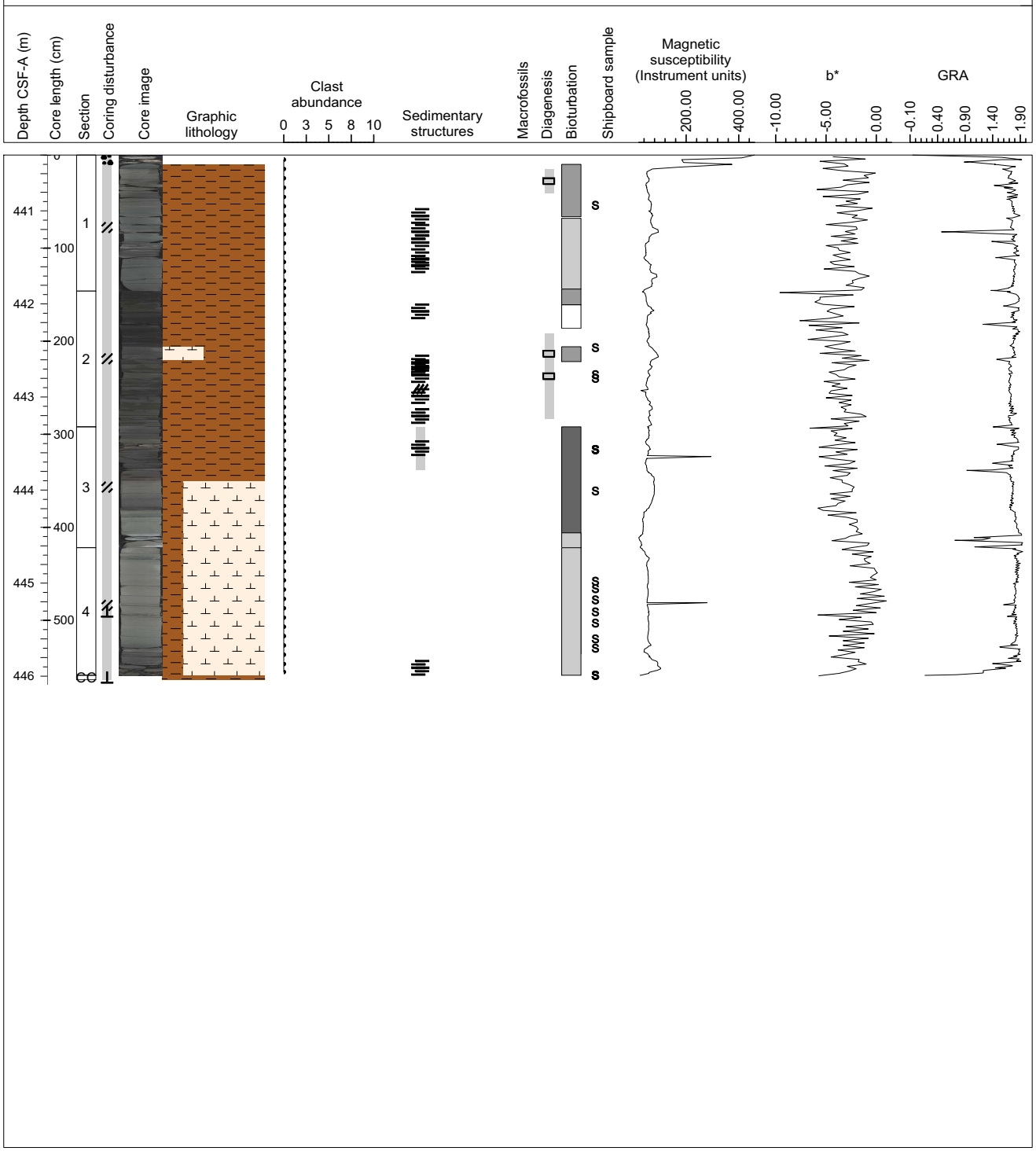
CLAYSTONE, olive grey, lithified. Moderately bioturbated throughout with some horizontal and sub-horizontal cm-scale burrows and several levels of mm-scale well-sorted silt laminations as defined by light brown color. Clasts are absent. This unit is olive -grey throughout except for a darker and browner indurated layer in section 1 (82-114 cm).



Core Photo

Hole 318-U1356A Core 47R, Interval 440.4-446.04m (CSF-A)

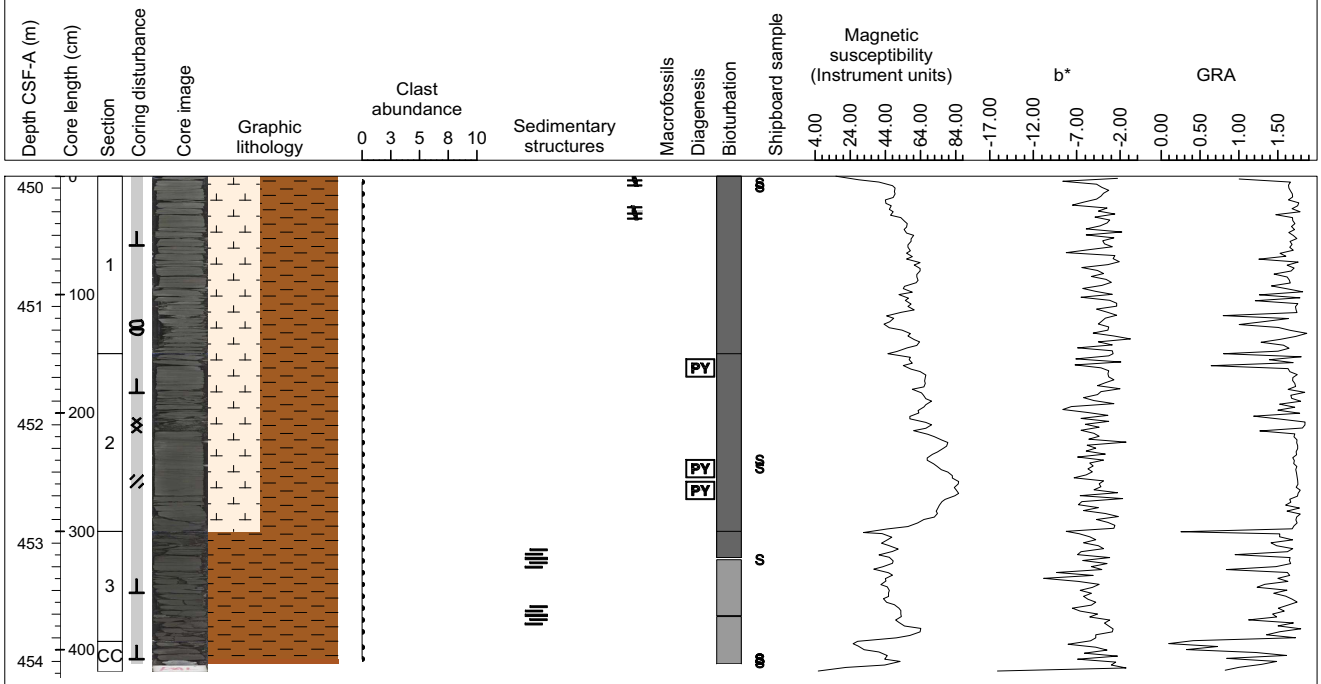
INTERBEDDED CLAYSTONE AND CLAY-BEARING NANNOFOSSIL OOZE. The upper part of this core consists of interbedded olive grey claystone, olive brown claystone, and nannofossil-rich clay. The olive grey claystones and nannofossil-rich claystones have moderate to common bioturbation and carbonate cement. The olive brown claystone has pinstripe to mm-scale laminae, some of which show normal grading or cross stratification, and minimal carbonate cement. The lower half of the core is dominated by a lithified olive-grey clay bearing NANNOFOSSIL OOZE with moderate to common bioturbation. Some smear slides indicate localized sections of pure nannofossil ooze(e.g. >90% nannos), and possible carbonate cement. The lower 23 cm of the core consists of olive brown claystone with pinstripe laminae.



Core Photo

Hole 318-U1356A Core 48R, Interval 449.9-454.08m (CSF-A)

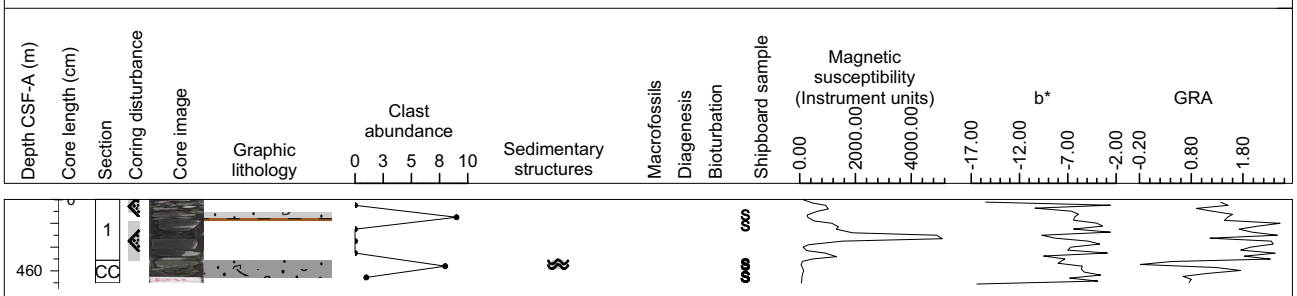
CLAYSTONE AND NANNOFOSSIL RICH CLAYSTONE. Greenish grey to dark brown . Commonly to moderately bioturbated. Pyritized burrows are present. Few silt laminae in dark brown facies. Clastic dykes are present in greenish grey facies.



Core Photo

Hole 318-U1356A Core 49R, Interval 459.4-460.1m (CSF-A)

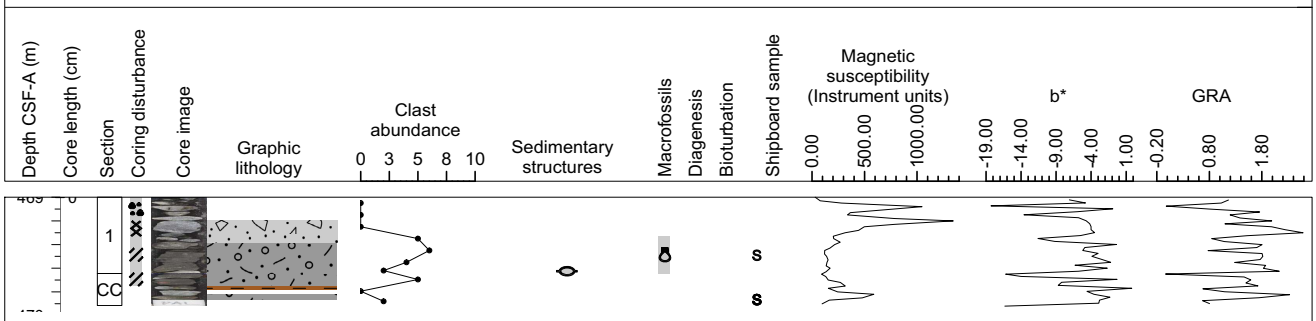
CLAST-RICH AND CLAST-POOR DIAMICTITE. Colour of the matrix is grey. One shell fragment and one greenish colour wispy laminae is present. Six pebbles and cobbles are also present of diorite and diorite gneiss lithologies and with subangular shape.



Core Photo

Hole 318-U1356A Core 50R, Interval 469.0-469.915m (CSF-A)

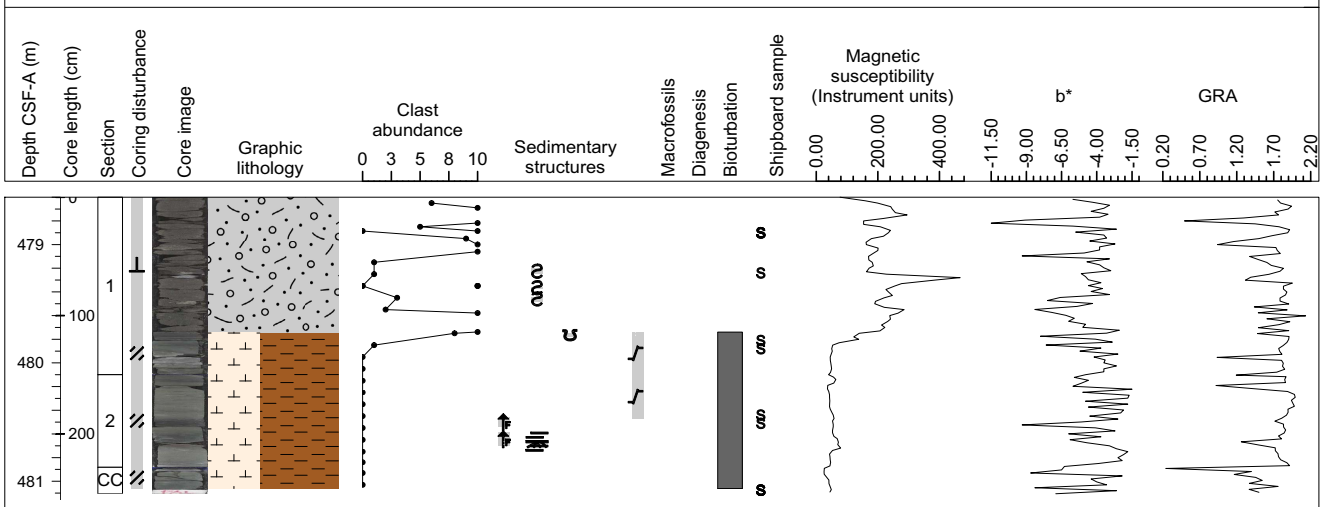
CLAST-RICH AND CLAST-POOR DIAMICTITE INTERBEDDED WITH CLAYSTONE. Dark grey and green diamictite matrix, which locally contains a trace of nannofossils. Intraclasts of a greenish lithology are present. The diamictite is locally carbonate cemented. Polymict clast assemblages with clasts up to cobble size.



Core Photo

Hole 318-U1356A Core 51R, Interval 478.6-481.1m (CSF-A)

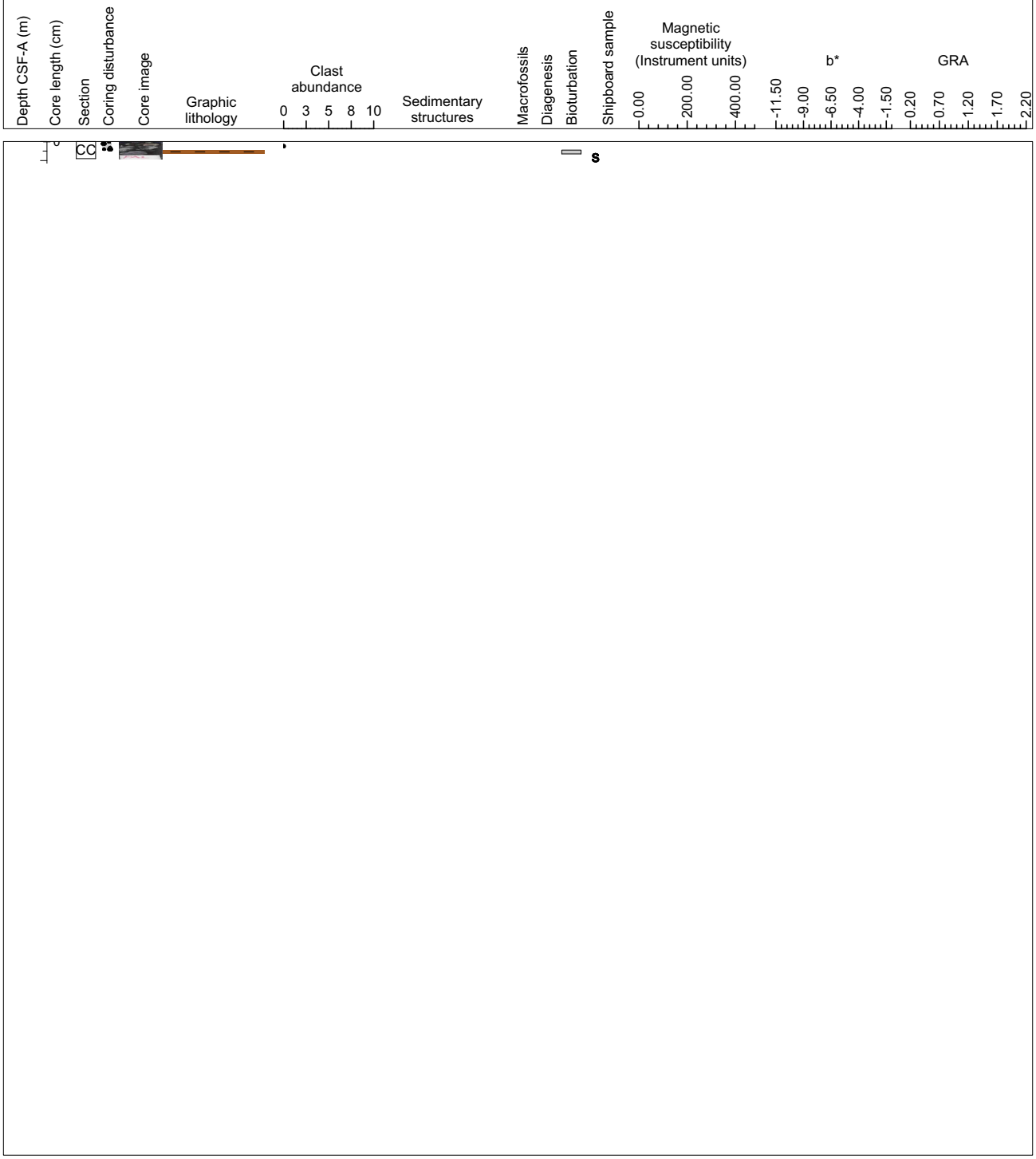
CLAST-POOR SANDY DIAMICTITE INTERBEDDED WITH NANNOFOSSIL-RICH CLAYSTONE. The diamictite matrix is grey and the claystones are light green clay. The contact between diamictite and the claystone is sheared. Two normally graded beds of dm-scale are present in the claystone. The claystone is commonly bioturbated. Clasts in the diamictite are polymict, angular to subangular and up to 4cm.



Core Photo

Hole 318-U1356A Core 52R, Interval 488.2-488.38m (CSF-A)

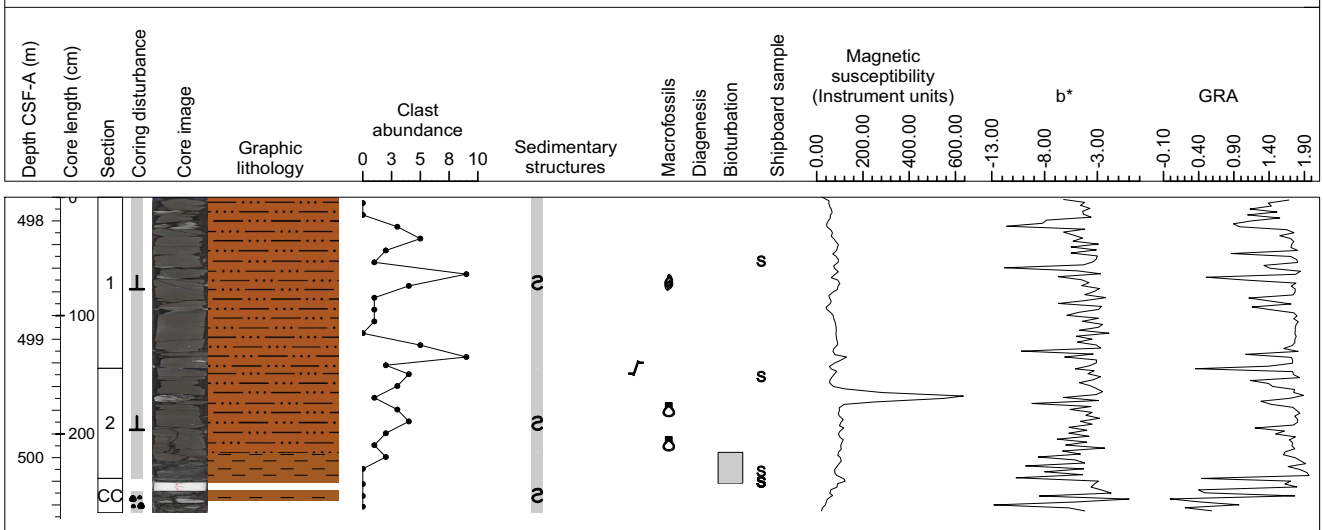
CLAYSTONE. Dark brown, bioturbated. Some fall-in pebbles up to 5 cm, metasediment, red sandstone, and diorietes, all angular in shape.



Core Photo

Hole 318-U1356A Core 53R, Interval 497.8-500.465m (CSF-A)

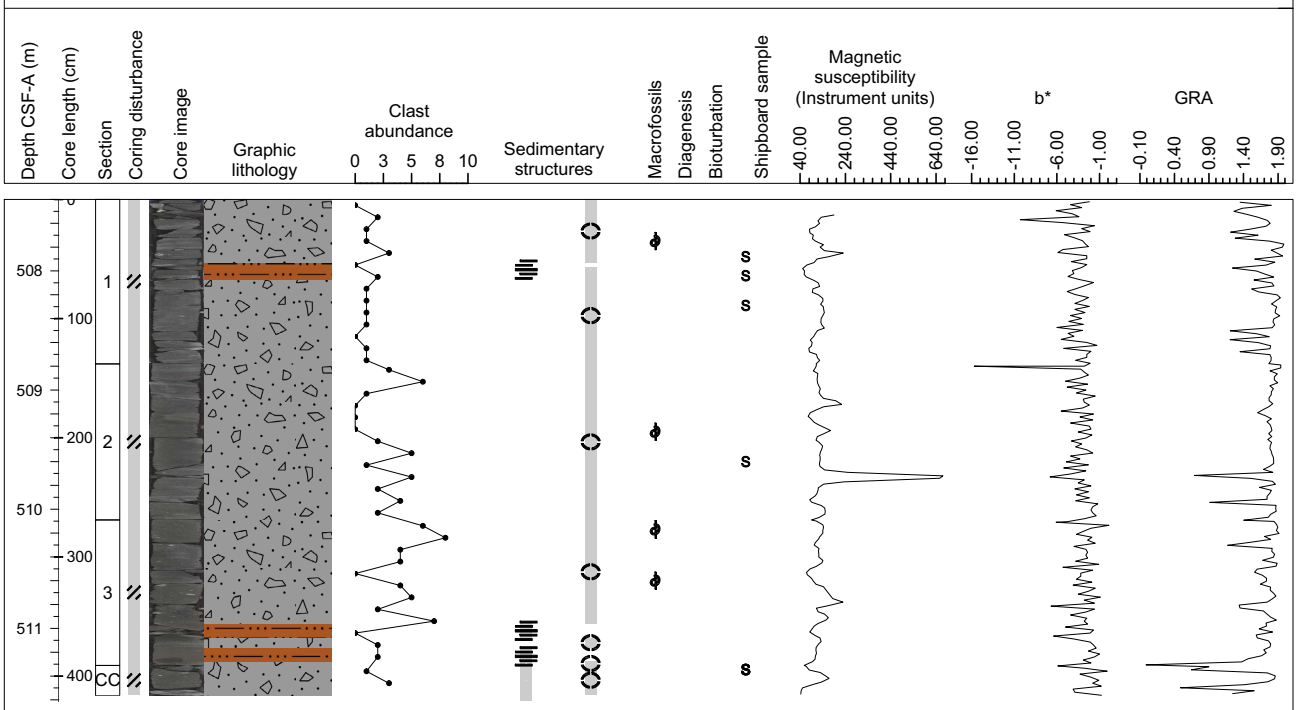
SILTY CLAYSTONE WITH DISPERSED CLASTS AND CLAYSTONE. The olive green silty claystone has <1% clasts, occurring dispersed throughout an isolated granules and pebbles, and in clusters. Clast sizes are up to 7cm. The dash brown claystone is bioturbated. The entire cored interval is soft-sediment deformed. Shell fragments are present, including one gastropod shell.



Core Photo

Hole 318-U1356A Core 54R, Interval 507.4-511.56m (CSF-A)

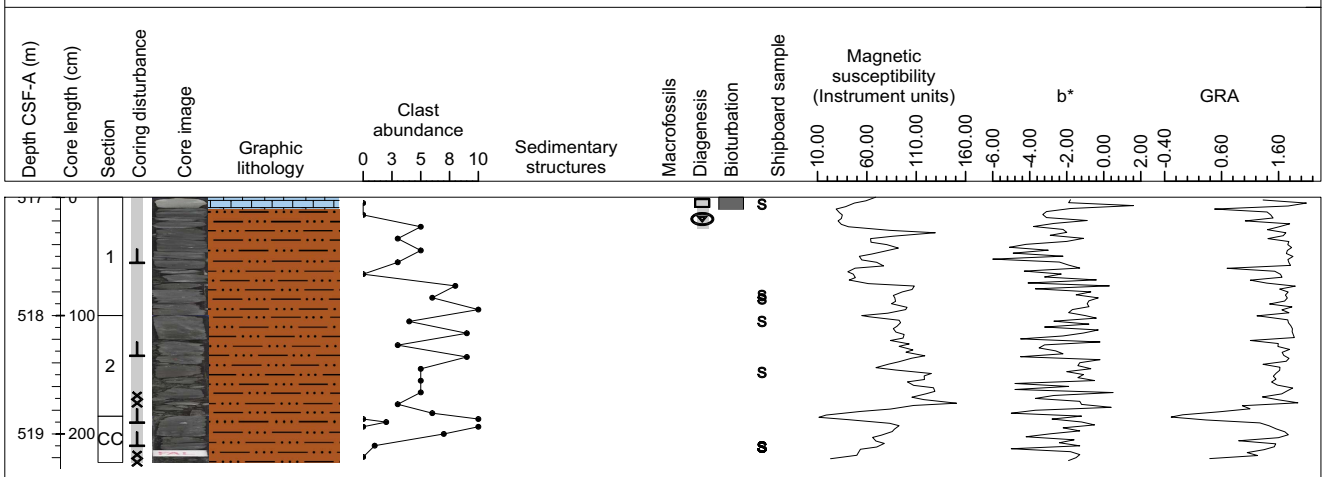
CLAST-RICH MUDDY DIAMICTITE. Core is dominated clast-rich muddy diamictite with abundant silty clay intraclasts. The diamictite are interbedded with three thin 10-15c thick silty claystone beds with mm-scale silt laminae, some of which are highly deformed. Diamictite units commonly display rotational features and pebble trains. Most intraclasts are elongate and alinged subparallel to the core face. Contains trace shell fragments of gastropods. Clast lithologies are diverse, including granite, gneiss, diorite and metasediments. Basal contact of diamictite units are sharp.



Core Photo

Hole 318-U1356A Core 55R, Interval 517.0-519.24m (CSF-A)

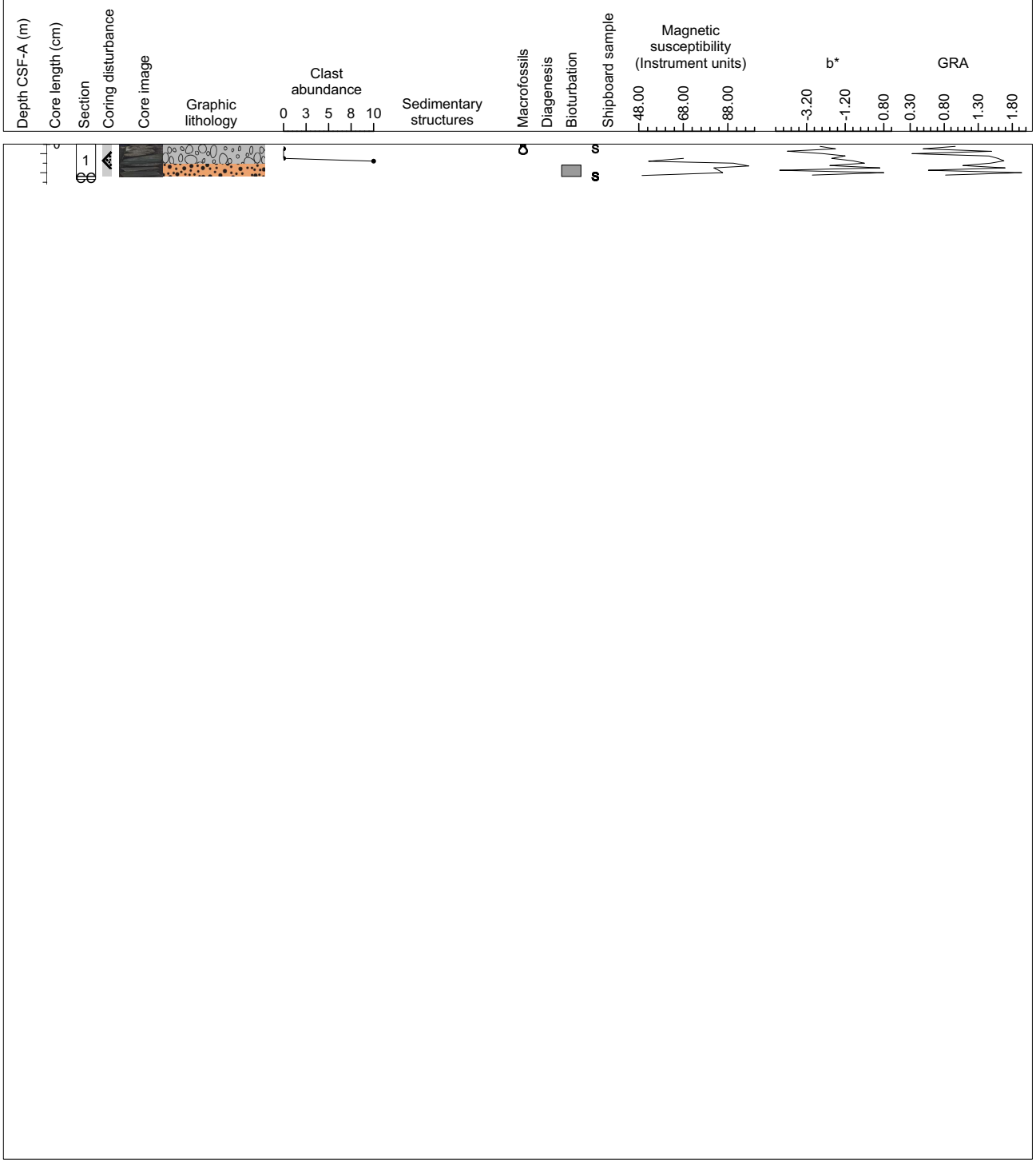
MICRITC LIMESTONE and SILTY CLAYSTONE WITH COMMON CLASTS. Upper 10 cm consists of a purely micritic limestone as observed in smear slides. Micritic texture suggests probable dissolution and diagenesis of nannos? Underlying this is a silty claystone (+/- common clasts) that is highly contorted and physically intermixed with silty claystone with dispersed or lacking clasts. Discrete ~5-10 cm thick blocks of silty claystones (lacking clasts) display bioturbation features, but these appear to be rotated from their original orientation. Silty claystone has common clasts that are up to a maximum of 10 mm in size. These clasts are angular to subrounded and are various lithologies (granite, gneiss, metasediments). Silty claystones are olive grey color.



Core Photo

Hole 318-U1356A Core 56R, Interval 526.5-526.87m (CSF-A)

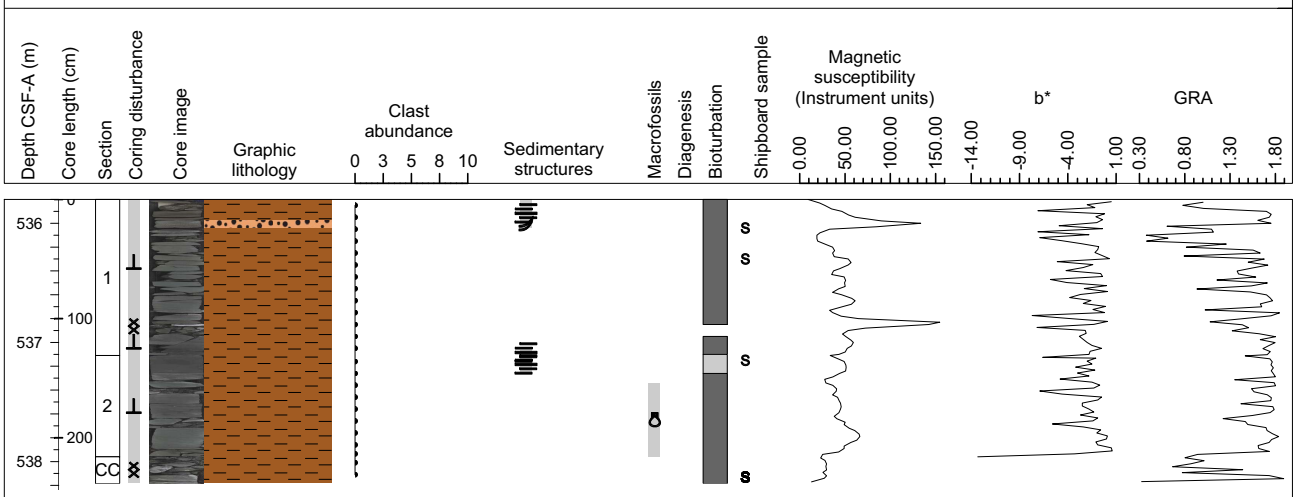
SANDY CONGLOMERATE with quartz, grantie, metasediments, clasts. Base of unit is coarser grained with numerous intraclasts. Drilling disturbance is severe - no strat integrity, but some relatively friable conglomerate is preserved. Smear slides indicate traces of glauconite grains. Shell fragment also noted. Lower part of core is highly indurated sandy silt that forms discontinuous blocks (4-5 cm thick) and may be represent clasts from the overlying conglomerate unit.



Core Photo

Hole 318-U1356A Core 57R, Interval 535.8-538.18m (CSF-A)

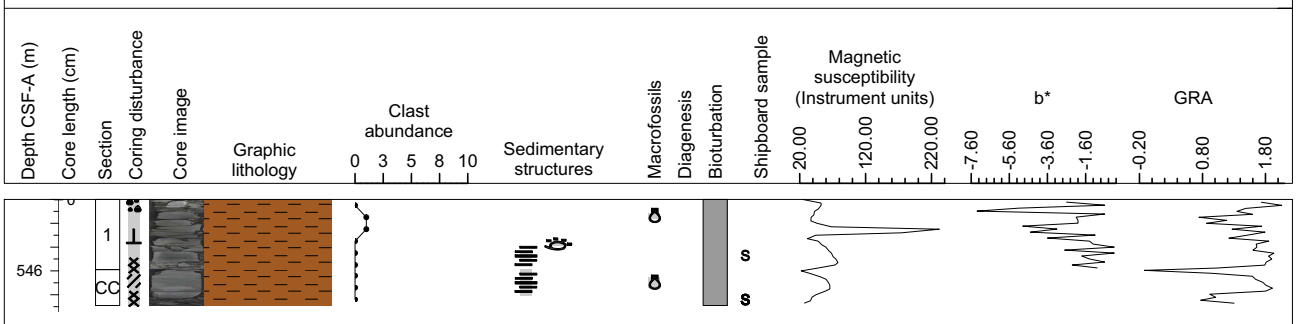
CLAYSTONE - dominated by olive grey claystone with black sub-mm black blebs and occasional mm-scale laminations. Bioturbation is common with zoophychus and chondrites. A 6.5 cm thick sandy siltstone bed in upper part of section 1 displays possible flaser bedding. Middle of core contains dark olive brown claystone with pinstripe laminae as defined by colour. Granite and diortie clasts at 105-108cm (but may be gravel contamination along edge of core line?).



Core Photo

Hole 318-U1356A Core 58R, Interval 545.4-546.29m (CSF-A)

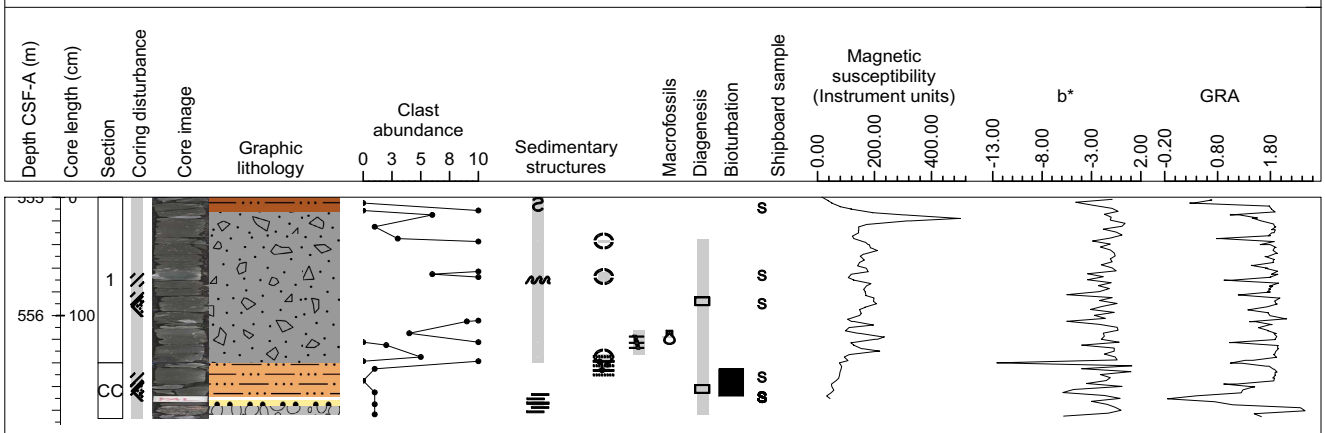
CLAYSTONE olive grey with common bioturbation (horizontal burrows). Lenticular silt laminae (mm-scale @36.5 to 38 cm). Sparse shell fragments (micro-pelecypods fragments). Smear slides show 5% nannofossils, 1% diatoms, and 3% volcanic glass. Longest continuous section is in core catcher.



Core Photo

Hole 318-U1356A Core 59R, Interval 555.0-556.87m (CSF-A)

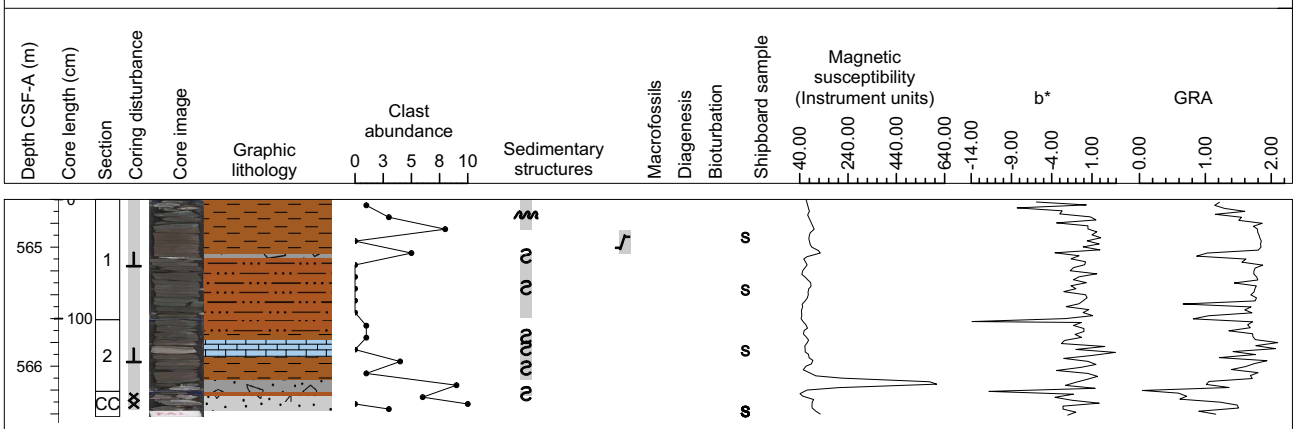
CLAST-RICH MUDDY DIAMICTITE AND CLAYEY SILTSTONE. The diamictite has a olive green matri and has convolute interbedding with a laminated clayston
Multiple intraformational clasts of variable facies are present and a few sand-filled clastic dykes. Few shell fragment are present as well.
The diamictite overlies a bioturbated clayey siltstone, stratified sandstone and carbonate cemented granule-pebble conglomerate.



Core Photo

Hole 318-U1356A Core 60R, Interval 564.6-566.42m (CSF-A)

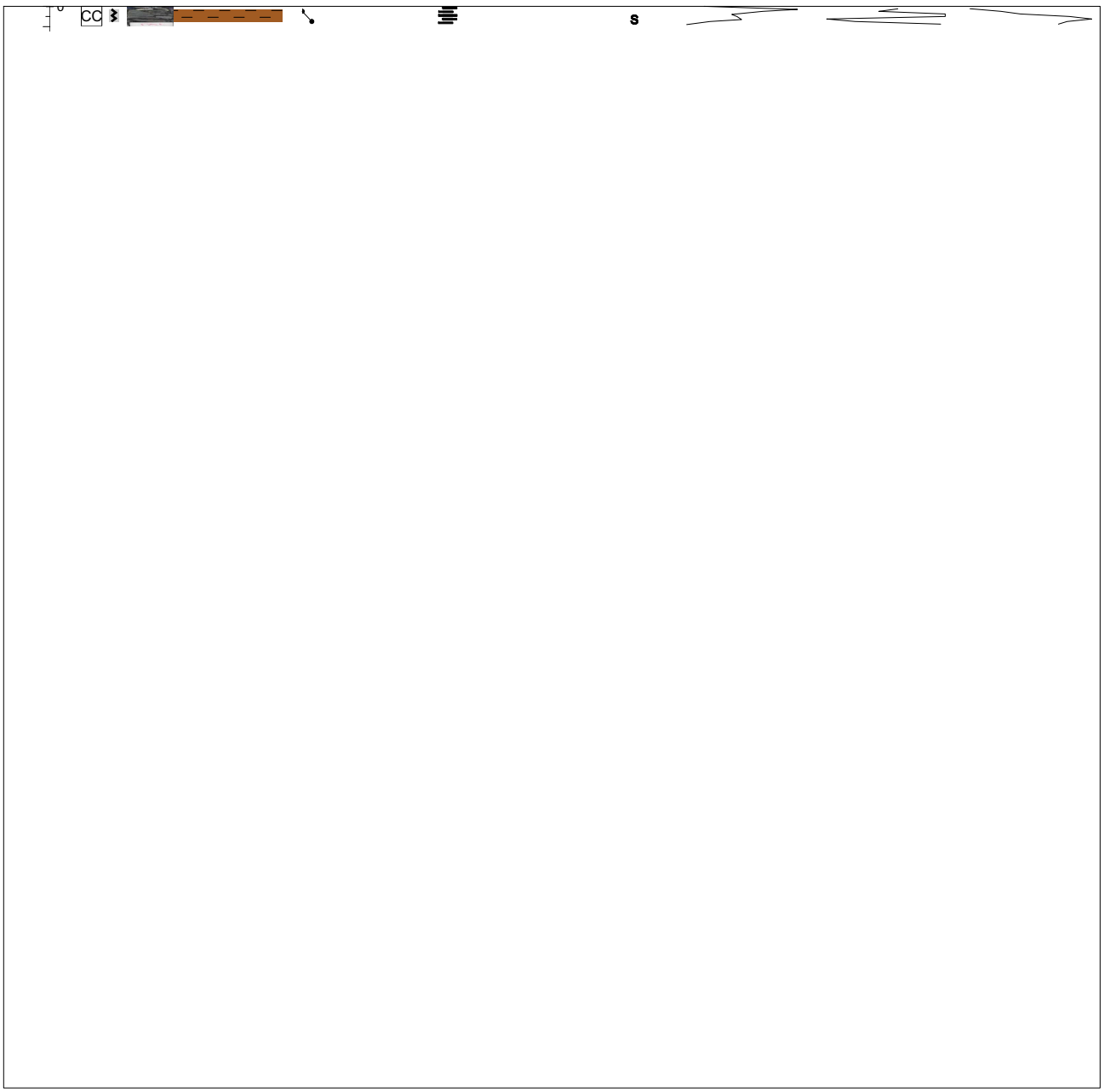
CLAYSTONE AND CLAST RICH DIAMICTITE. Clays are reddish brown and olive green and are strongly deformed. Clast-rich diamictite occurs as interbeds and as a thicker unit at the base of the core interval. Bedding in the entire cored interval is strongly contorted and convoluted. One 14cm-thick micrite limestone is present.



Core Photo

Hole 318-U1356A Core 61R, Interval 574.2-574.39m (CSF-A)

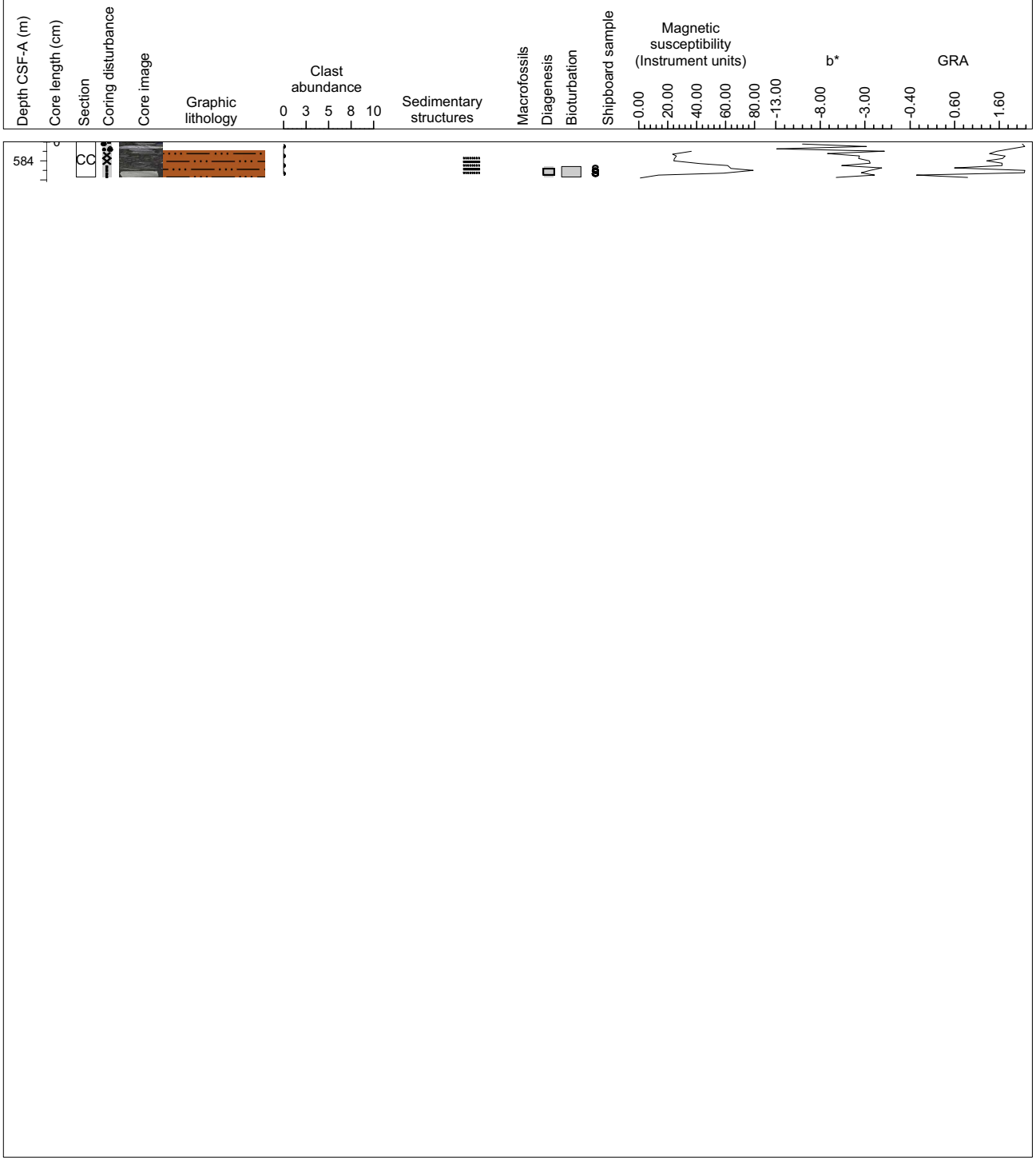
CLAY. Light greenish grey with some reddish brown laminae. Strongly disturbed by drilling. Pebbles at the top are mainly dark metasediment clasts. prbably fall-in



Core Photo

Hole 318-U1356A Core 62R, Interval 583.8-584.17m (CSF-A)

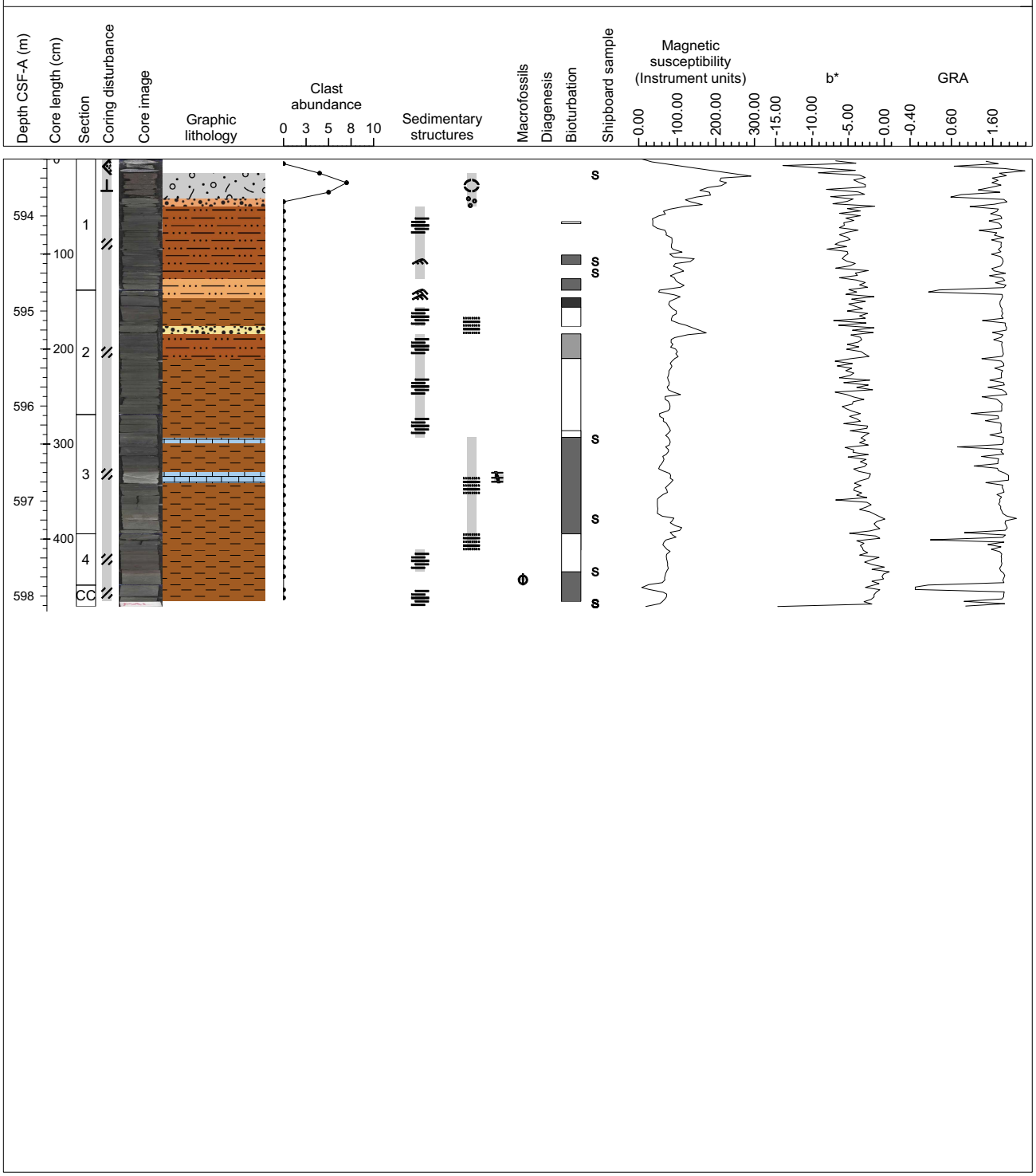
SILTY CLAYSTONE AND LIMESTONE. Silty Claystone above 26 cm that is highly brecciated by drilling so no sedimentary structures or bioturbation is visible. Clasts apparently absent below fall-in layer. no apparent carbonate. Olive brown in color. Below 26 cm is a highly indurated miciritic limestone with mm-scale black laminae at 29cm, some bioturbation. Probably represents micritization and cementation of a nannofossil ooze.



Core Photo

Hole 318-U1356A Core 63R, Interval 593.4-598.105m (CSF-A)

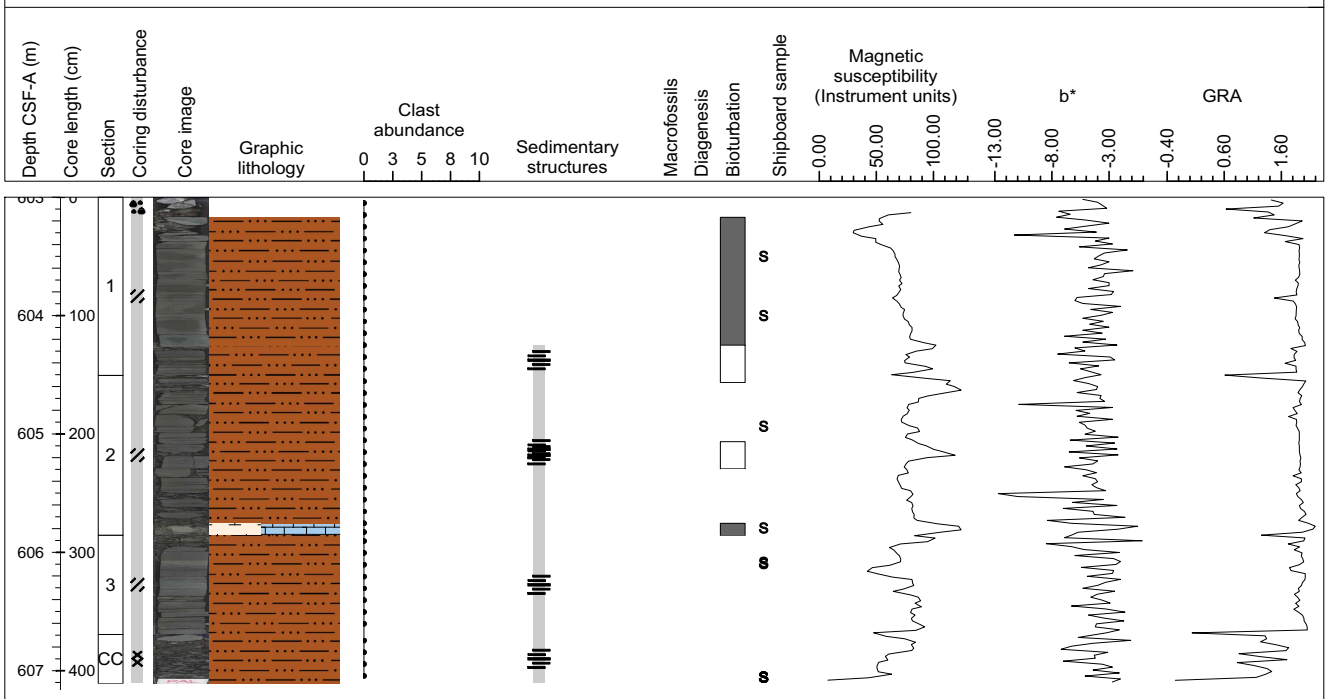
CLAYSTONE AND CLAST-POOR SANDY DIAMICTITE. The claystones are light-greenish grey, commonly bioturbated facies interbedded with dark olive brown planar laminated facies. The diamictite is dark grey, massive with both cystalline and intraformational clasts up to 1.5cm.



Core Photo

Hole 318-U1356A Core 64R, Interval 603.0-607.105m (CSF-A)

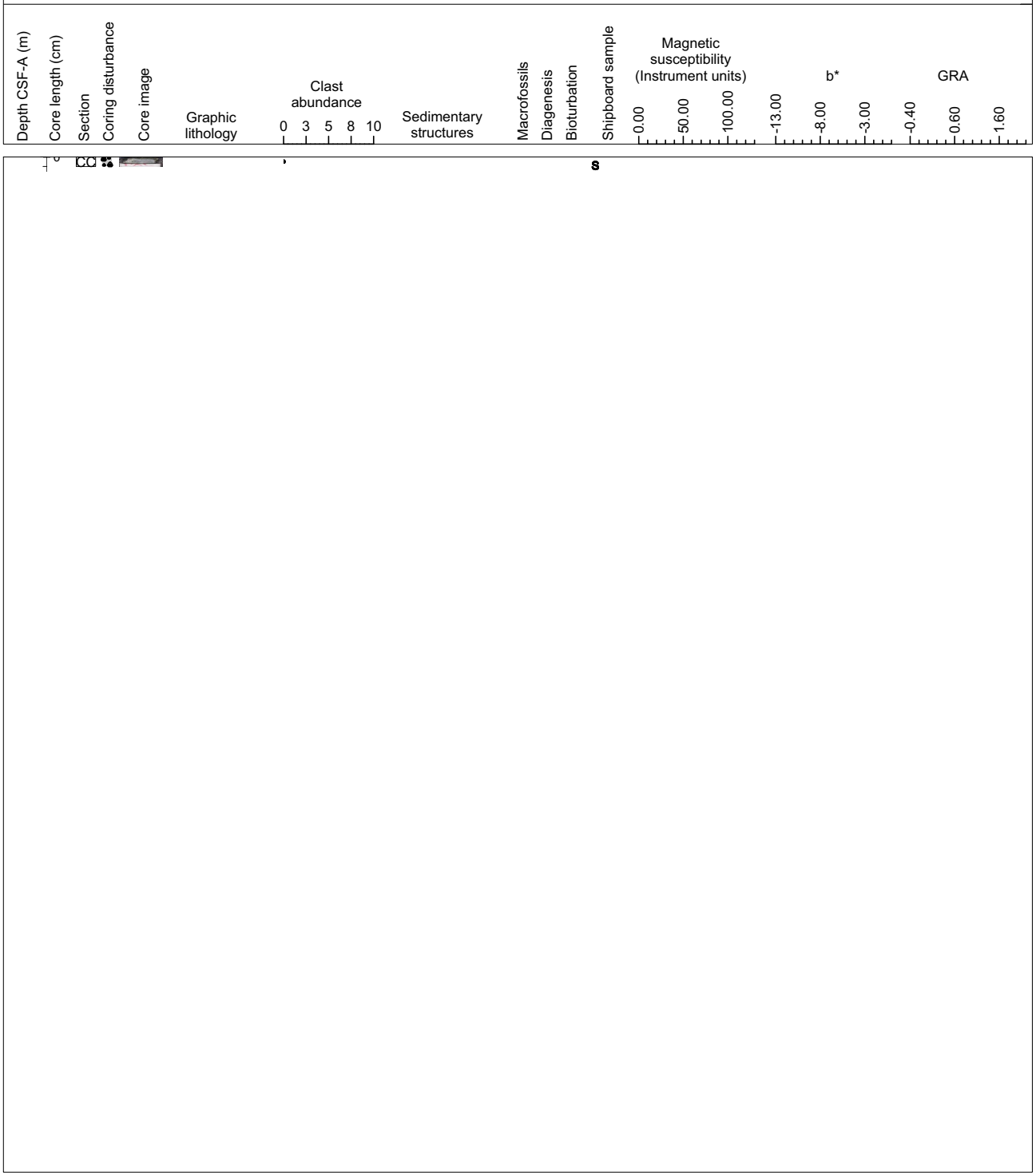
SILTY CLAYSTONE AND NANNOFOSSI-RICH LIMESTONE. Olive brown silty claystone with mm and sub-mm pinstripe laminations. Occasional whiter mm-scale quartz silt laminae. Bioturbation is sparse to absent throughout most of the cored interval, although the upper 125cm has common bioturbation and is unlaminated. A carbonate-cemented light olive grey slightly micritic nanno-rich limestone occurs between 125 and 135 in section 2 and is highly bioturbated



Core Photo

Hole 318-U1356A Core 65R, Interval 612.6-612.7m (CSF-A)

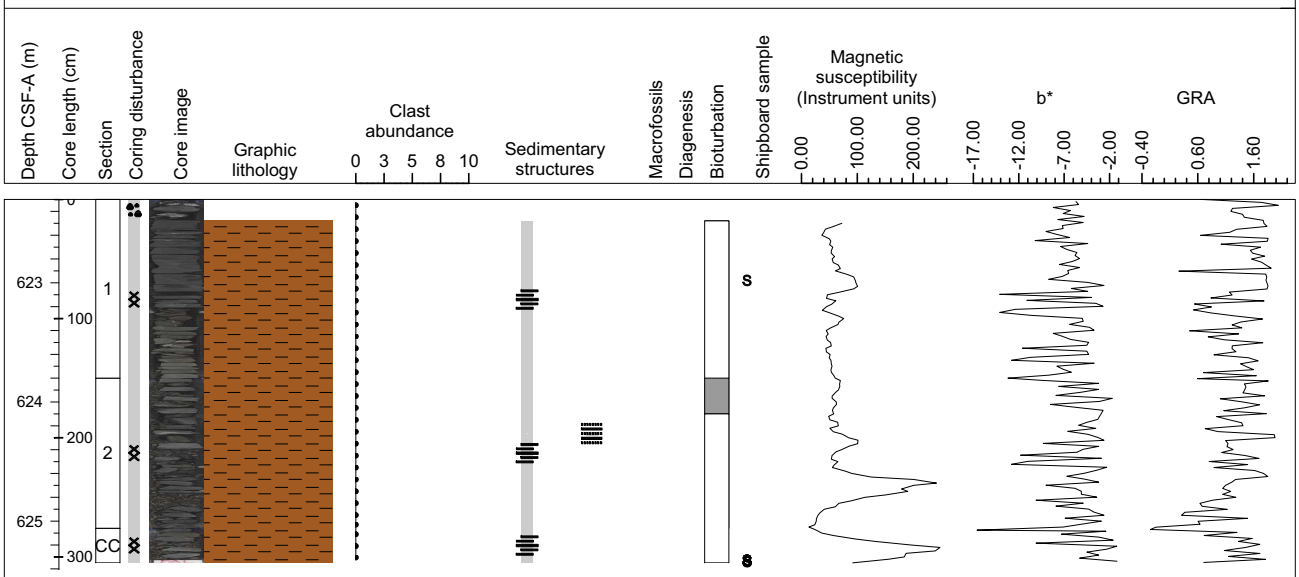
CC consists of a single piece of diorite interpreted as fall-in.



Core Photo

Hole 318-U1356A Core 66R, Interval 622.3-625.35m (CSF-A)

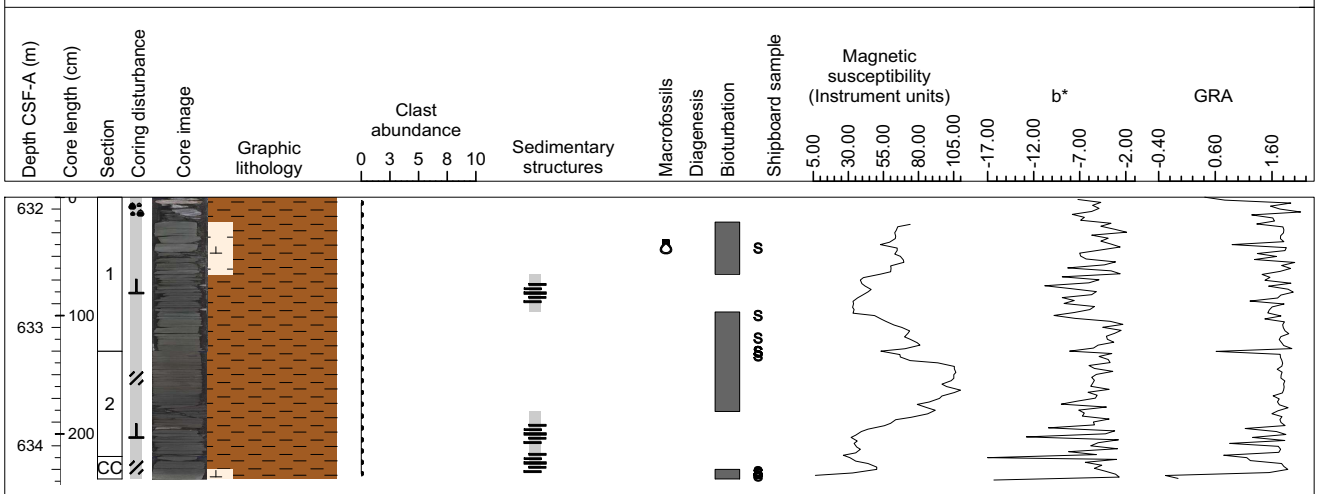
CLAYSTONE - olive brown claystone with mm and sub-mm pinstripe laminations. Very rare and discontinous whiter mm-scale quartz silt laminae. Bioturbation is sparse to absent in the interval. Section 1 is most intact between 17 and 86 cm, then voids are signfiicant between 2-5 cm thick bits of the section. Voids between sections of intact sediment bcome alonger in section 2 and beginning at 60 cm well-sorted (washed) multi-colored gravels are interspersed among the claystone biscuits, infilling the voids. There is a gravel layer in section 2 from 96-108 cm but is not necessarily representative of an intact change in lithology for this core.



Core Photo

Hole 318-U1356A Core 67R, Interval 631.9-634.28m (CSF-A)

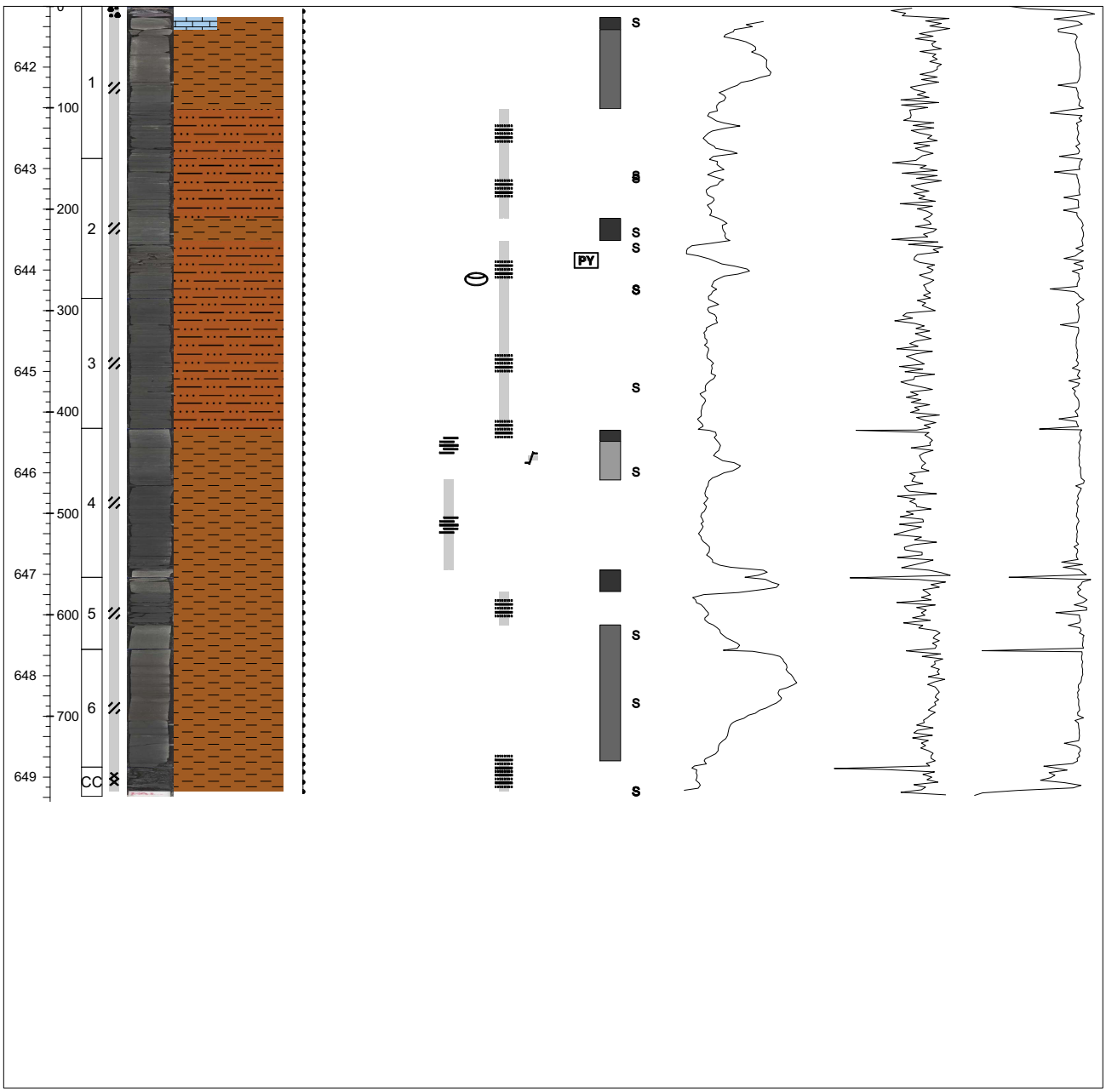
CLAYSTONE AND NANNOFOSSIL-BEARING CLAYSTONE. This core consists of interbedded olive grey claystone, olive brown claystone, and nannofossil-bearing claystone. The olive grey claystones and nannofossil-rich claystones have moderate to common bioturbation. The olive brown claystone has pinstripe to mm-scale laminae as defined by colour and silt laminae. The uppermost and lowermost section of the core are lithified olive-grey nanofossil-bearing claystones with moderate to common bioturbation. Trace pelecypods shell fragments.



Core Photo

Hole 318-U1356A Core 68R, Interval 641.4-649.19m (CSF-A)

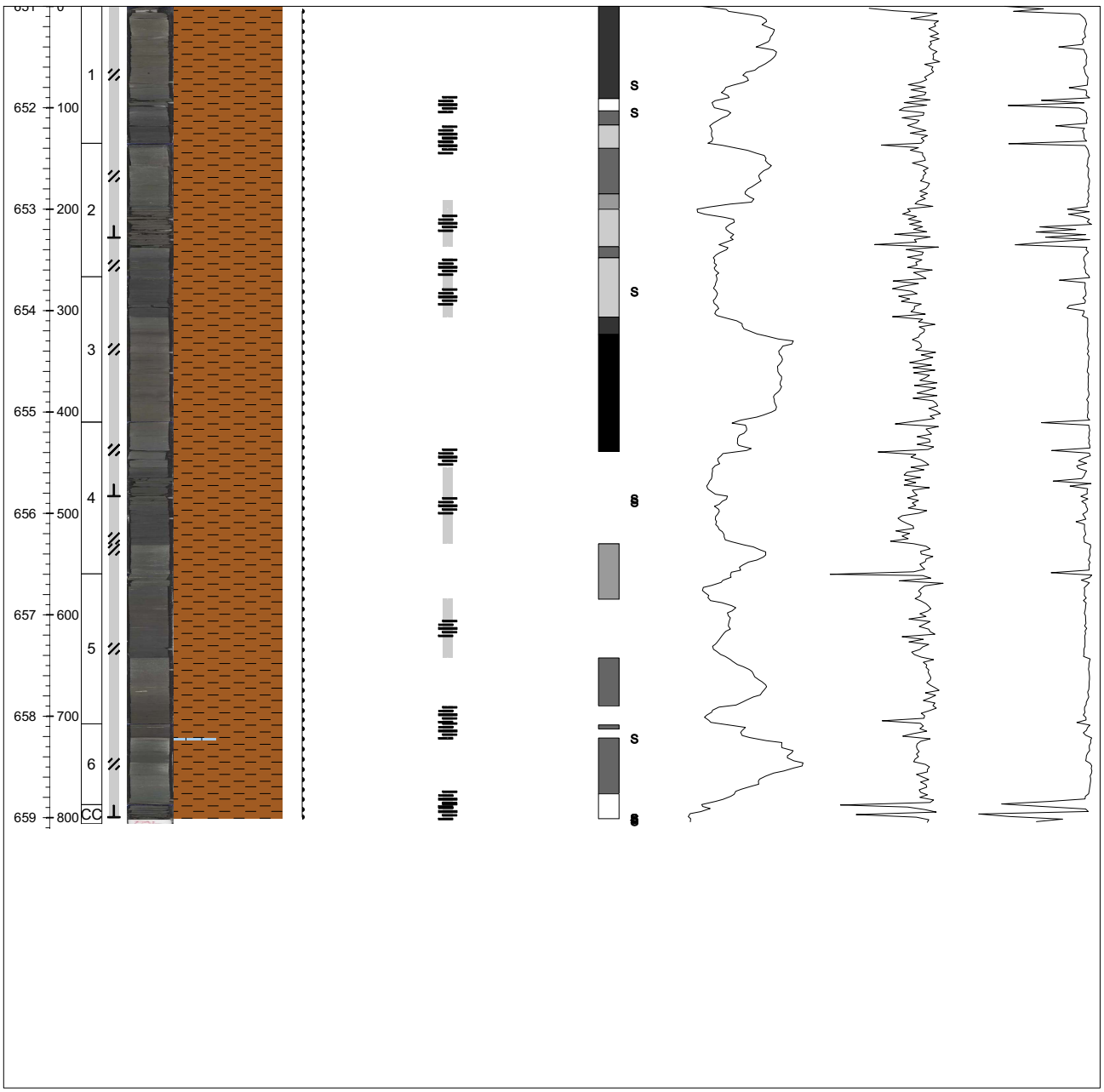
CLAYSTONE AND SILTY CLAYSTONE. Interbedded light greenish grey bioturbated claystone and green in the laminated silty claystone. The green claystone has dark-light interlaminations on a mm-scale. Discrete silt laminae occur in variable abundance from ca. 70 per meters to ca. 5 per meters and thicknesses range from pinstripe laminae (<1 mm) to 6 mm thick. Both pyrite and carbonate cement are present.



Core Photo

Hole 318-U1356A Core 69R, Interval 651.0-659.06m (CSF-A)

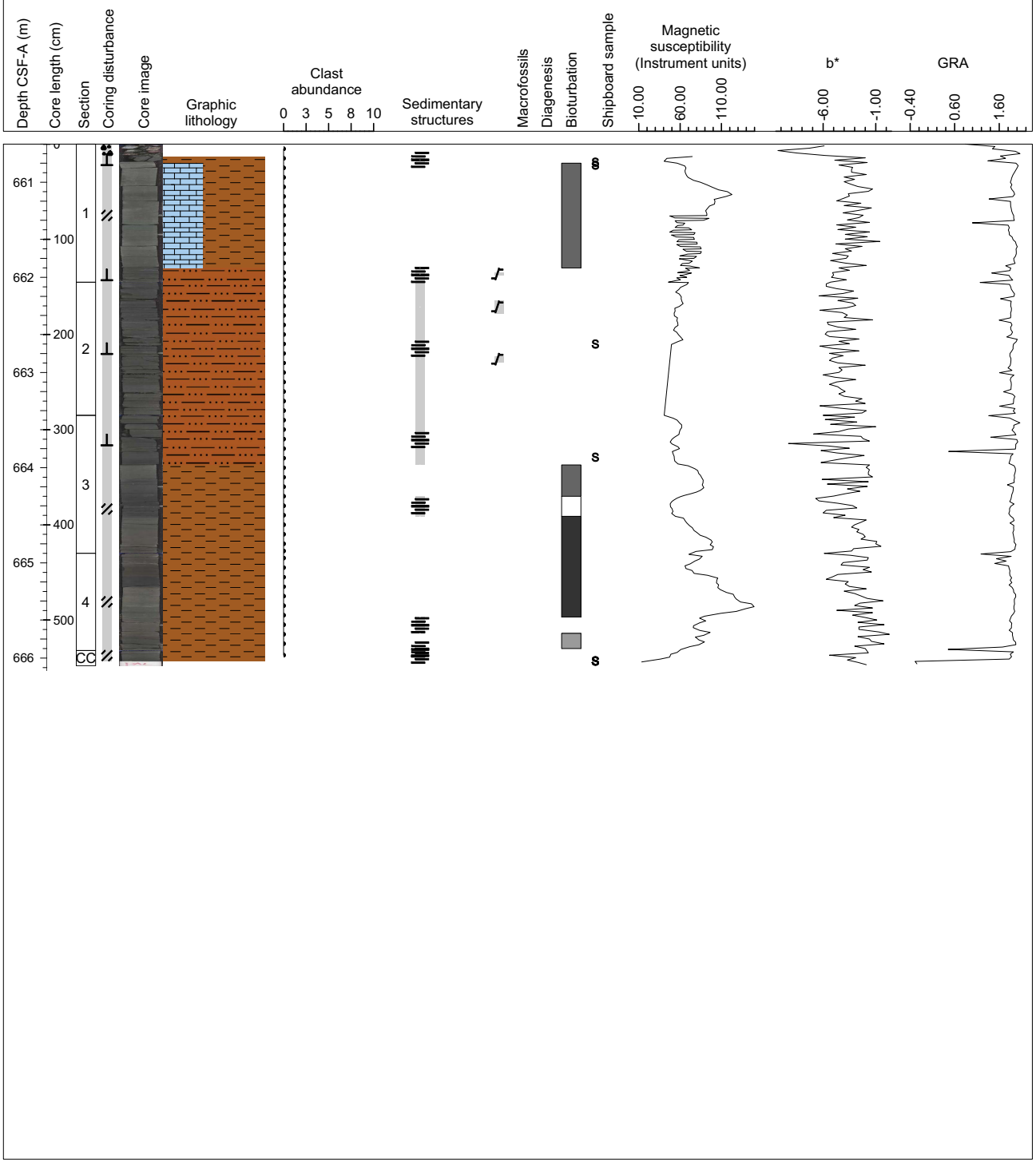
CLAYSTONE. Interbedded light greenish grey strongly bioturbated claystone and dark brown parallel laminated claystone with occasinal; rhythmic laminations. Ichnofacies include Zoophycos, Planolites and Chondrites. Sharp contacts between beds and upwards gradational changes in colour from dark brown to light green.



Core Photo

Hole 318-U1356A Core 70R, Interval 660.6-666.08m (CSF-A)

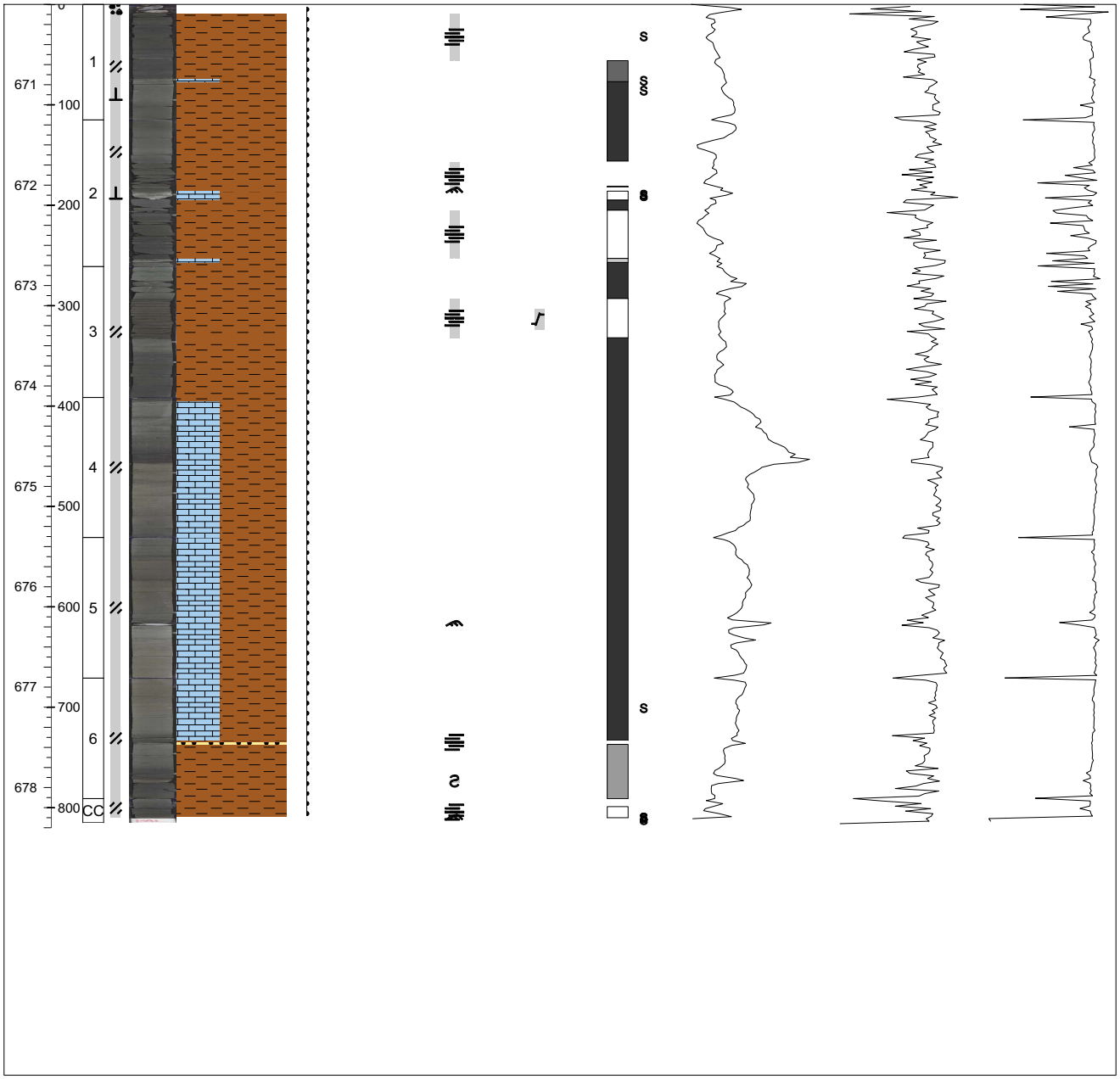
CLAYSTONE AND SILTY CLAYSTONE. Interbedded light greenish grey strongly bioturbated claystone with dark greyish brown parallel laminated silty claystone. Syn-sedimentary microfaults are present in the laminated silty claystone. Ichnofacies include planolites, zoophycos and chondrites.



Core Photo

Hole 318-U1356A Core 71R, Interval 670.2-678.35m (CSF-A)

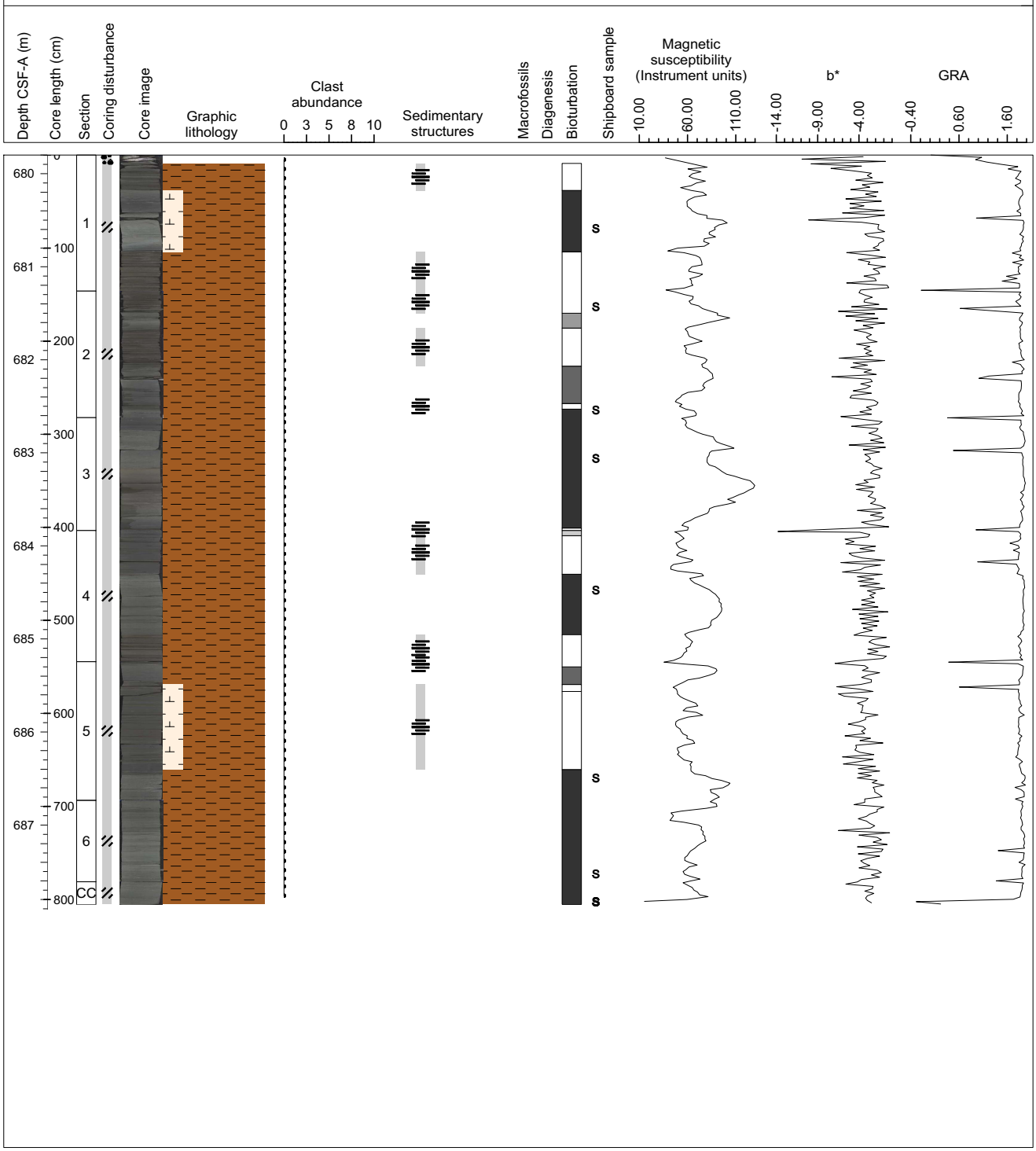
CLAYSTONE AND CALCAREOUS CLAYSTONE. Light-greenish grey stongly bioturbated claystone interbedded with dark brown laminated claystone with sparse bioturbation. Some interbeds of calcareous claystones, ripples, laminated sandstones and siltstones are present, all <1m thick. Synsedimentary microfaults are present in the laminated claystone.



Core Photo

Hole 318-U1356A Core 72R, Interval 679.8-687.85m (CSF-A)

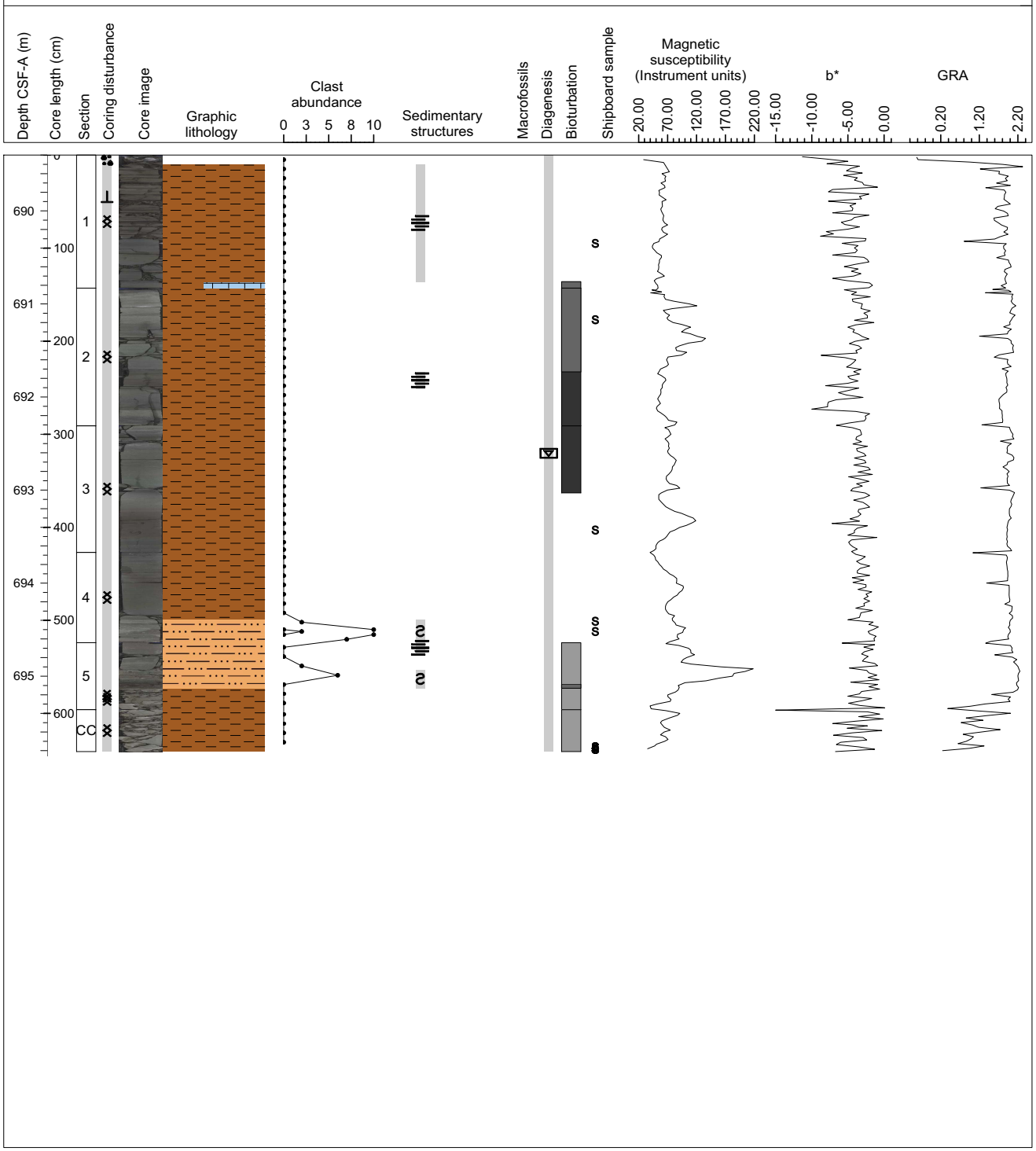
CLAYSTONE AND NANNOFOSSIL-BEARING CLAYSTONE. This core consists of interbedded olive grey claystone, olive brown claystone, and nannofossil-bearing claystone. The olive grey claystones and nannofossil-bearing claystones have moderate to common bioturbation. The olive brown claystone has pinstripe to mm-scale laminae as defined by colour and silt laminae. Lithified olive-grey nanofossil-bearing claystones occur in section 1 and section 6 and have moderate to common bioturbation. Trace pelecypods shell fragments occur in the bioturbated claystones and these also contain 5-10% micritic carbonate cement. Chalcedony and chert is observed in smear slides at 64 cm in section 6.



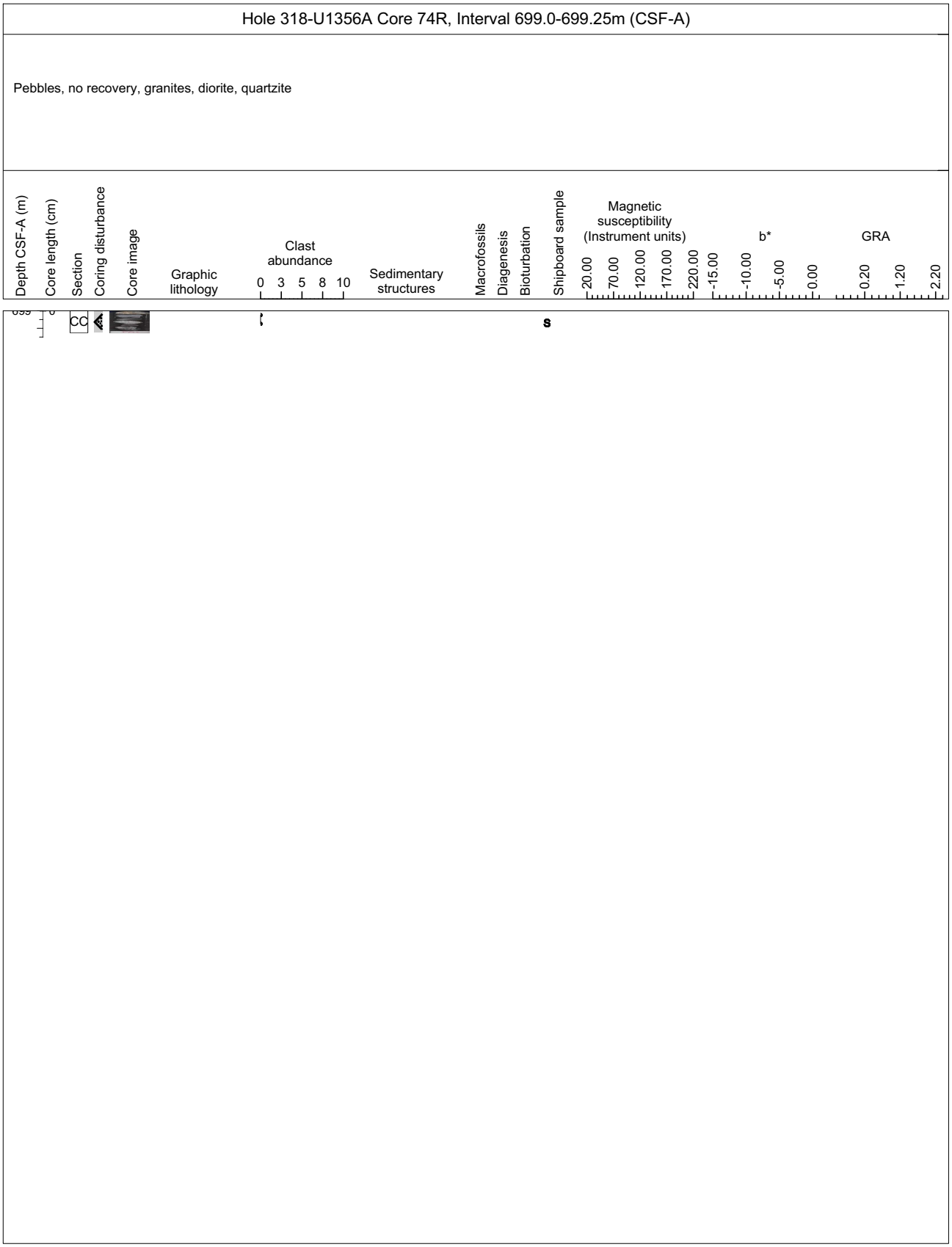
Core Photo

Hole 318-U1356A Core 73R, Interval 689.4-695.81m (CSF-A)

CLAYSTONE, CLAY-RICH LIMESTONE AND SILTY CLAYSTONE WITH DISPERSED CLASTS. This core consists of interbedded olive grey claystone, olive brown claystone, and clay-rich limestone. At the base of the core are two ~20 cm thick clayey siltstones with dispersed clast and highly contorted bedding, indicative of slumping. The olive grey claystones and clay-rich limestones have moderate to common bioturbation. The olive brown claystone has pinstripe to mm-scale laminae as defined by colour and silt laminae. Chalcedony and chert in smear slide is more common than in overlying cores suggesting increasing amounts of silica cementation.



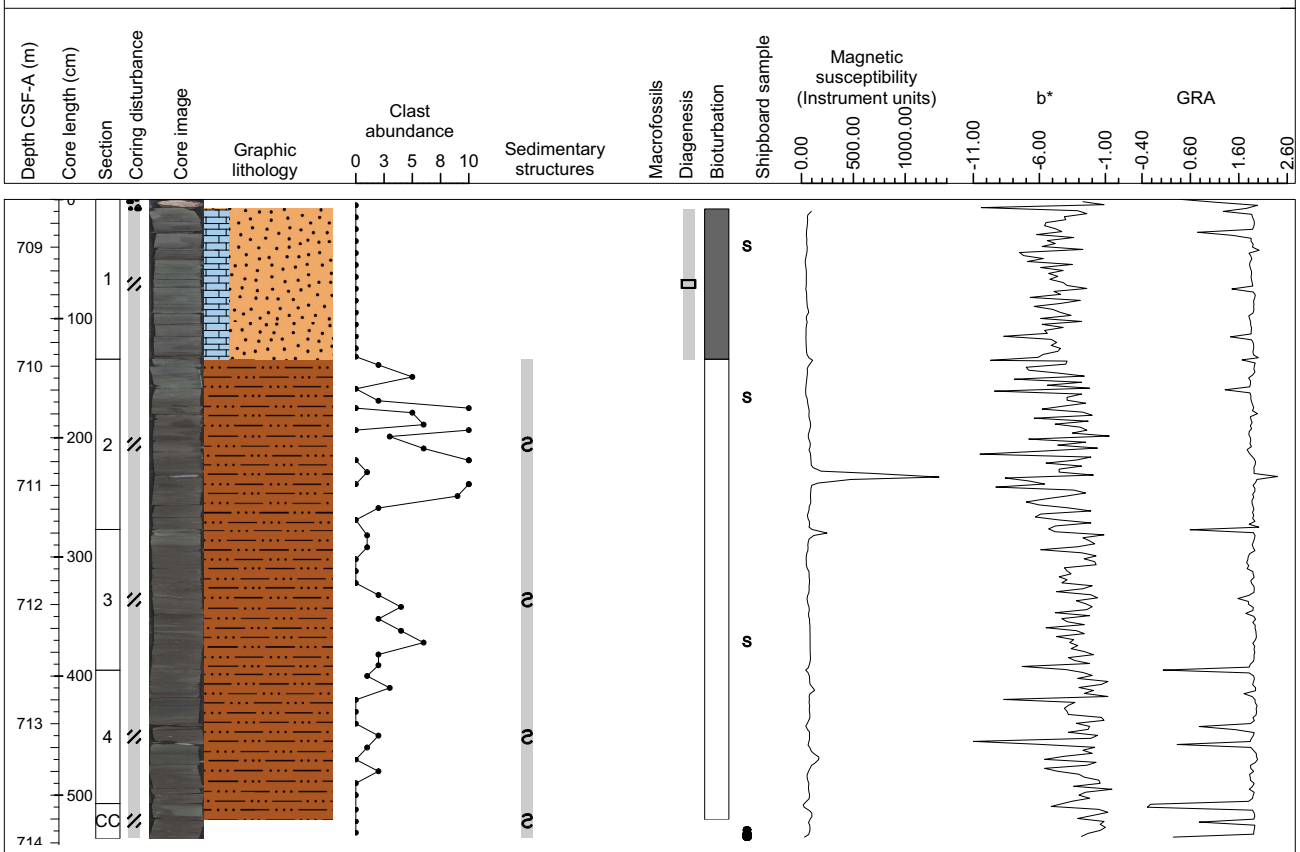
Core Photo


Hole 318-U1356A Core 74R, Interval 699.0-699.25m (CSF-A)
Pebbles, no recovery, granites, diorite, quartzite
Depth CSF-A (m)
Core length (cm)
Section
Coring disturbance
Core image
Graphic lithology
Clast abundance
0 3 5 8 10
Sedimentary structures
Macrofossils
Diagenesis
Bioturbation
Shipboard sample
Magnetic susceptibility (Instrument units)
20.00 70.00 120.00 170.00 220.00
b*
-15.00 -10.00 -5.00 0.00
GRA
0.20 1.20 2.20
699
CC
S

Core Photo

Hole 318-U1356A Core 75R, Interval 708.6-713.96m (CSF-A)

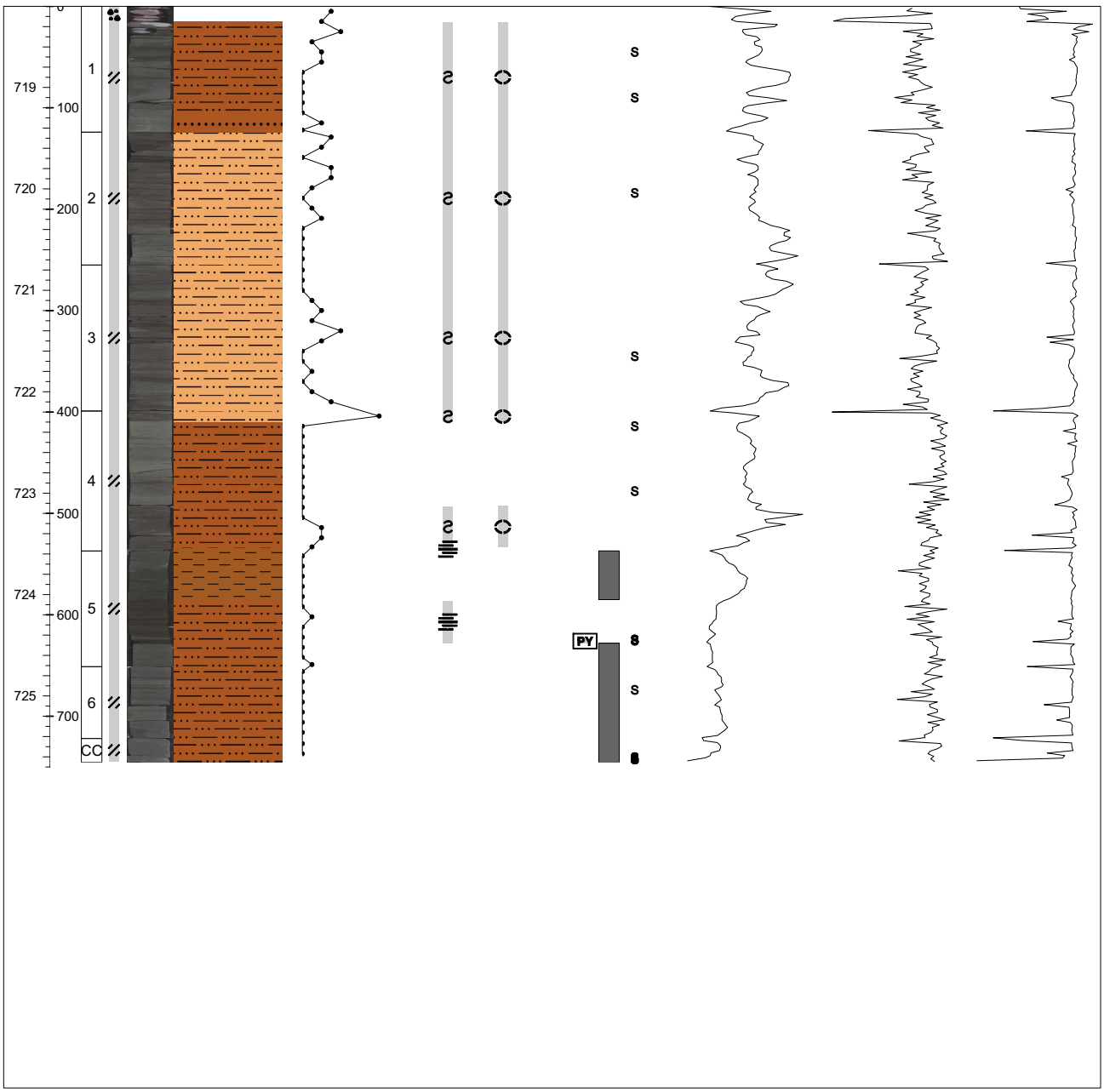
SILTY CLAYSTONE AND SILTY CLAYSTONE WITH DISPERSED CLASTS. The uppermost portion (section 1) is a carbonate-bearing olive grey silty claystone with abundant burrowing. From the top of section 2, the unit is a silty claystone with dispersed clasts and highly disturbed bedding with flow structures. Probably a meters thick debris flow. Entire unit contains contorted bedding with clasts of different colored silty claystone, granite and diorite within a generally olive grey to olive brown grey silty claystone matrix.



Core Photo

Hole 318-U1356A Core 76R, Interval 718.2-725.65m (CSF-A)

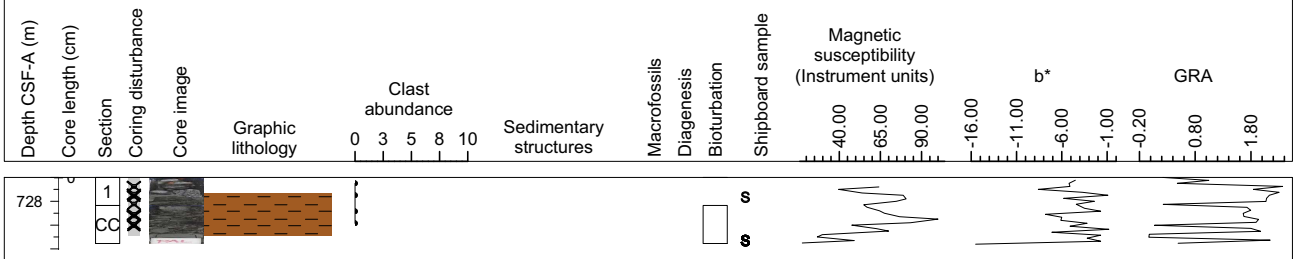
SILTY CLAYSTONE WITH DISPERSED CLASTS AND SILTY CLAYSTONE. THe top of this core consists of an olive grey to olive grey brown silty claystone with common clasts. Deformation features are common (e.g. flow structures, intraclasts horizontally or sub-horizontally aligned, and lack of primary bioturbation). Intervals in this unit exhibit physical intermixing and flow structures, e.g., suggestive of debris flows. This unit sharply overlies a bioturbated silty claystone.



Core Photo

Hole 318-U1356A Core 77R, Interval 727.8-728.355m (CSF-A)

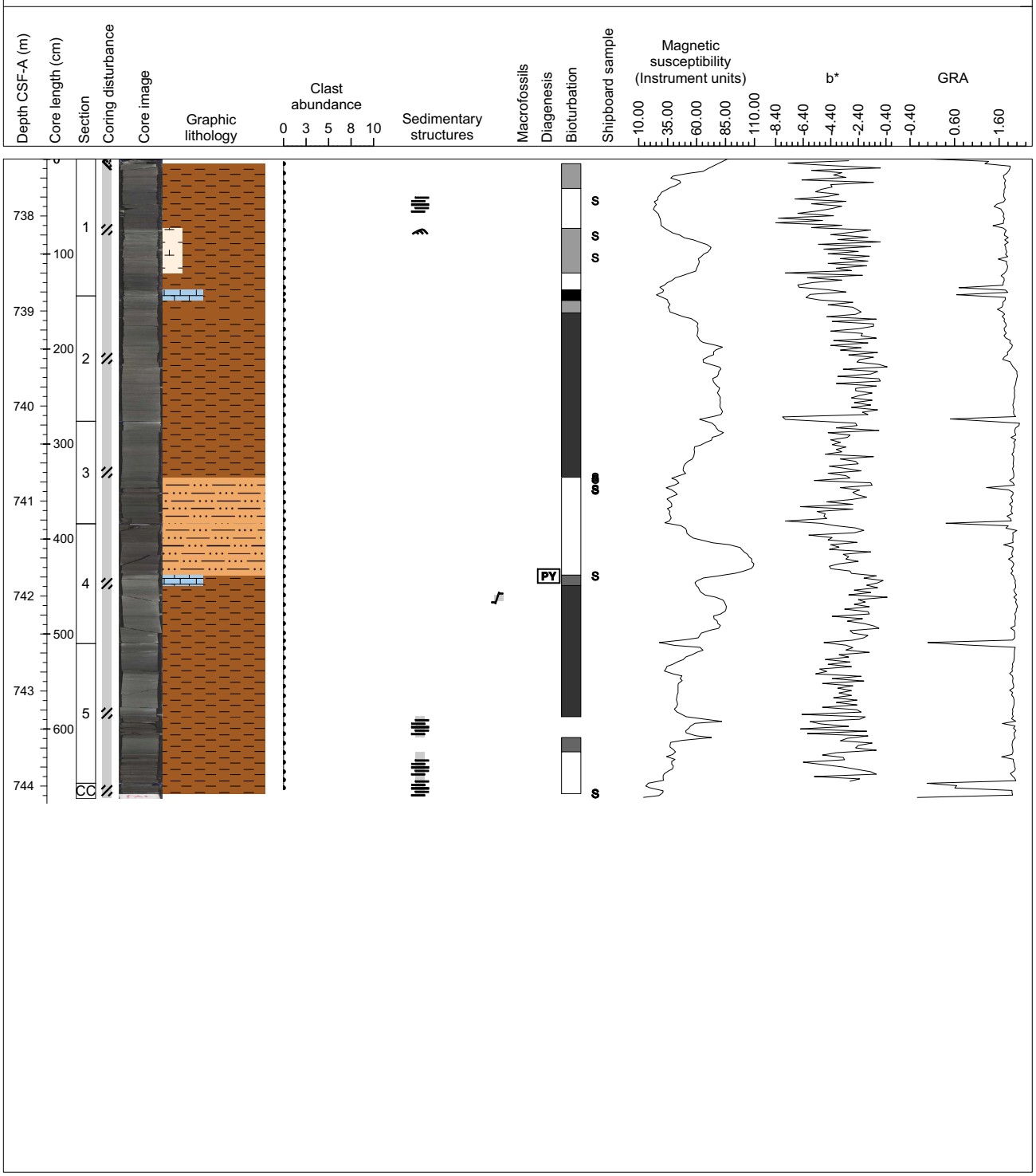
CLAYSTONE. Bioturbated. Extremely disturbed by drilling



Core Photo

Hole 318-U1356A Core 78R, Interval 737.4-737.4m (CSF-A)

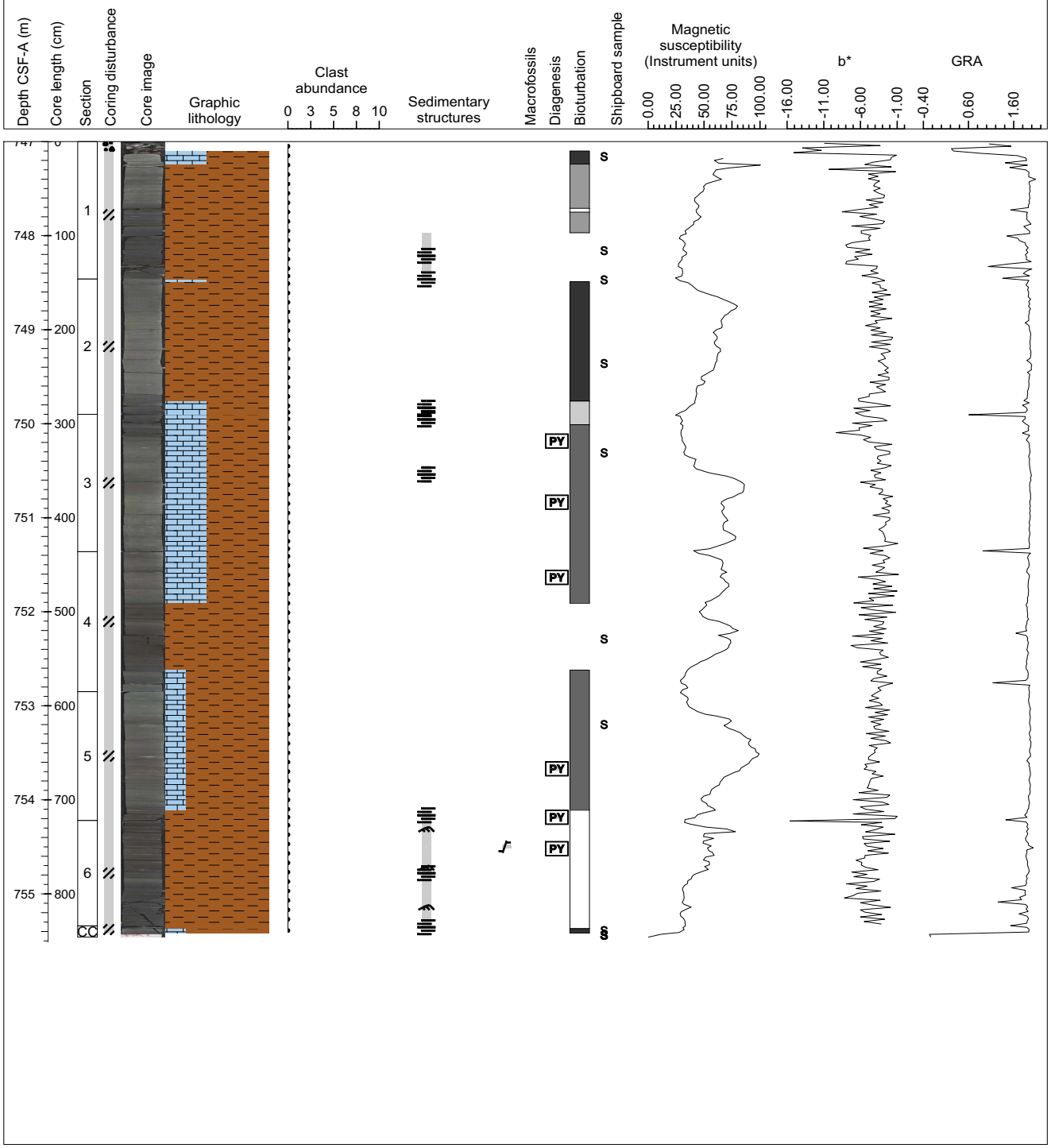
CLAYSTONE AND NANNOFOSSIL-BEARING CLAYSTONE. Interbedded light greenish grey strongly bioturbated claystone and nannofossil-bearing claystone and dark brown massive or laminated claystone with sparse biotrubation. Silt laminae are present. One normal microfault was observed as well.



Core Photo

Hole 318-U1356A Core 79R, Interval 747.0-755.46m (CSF-A)

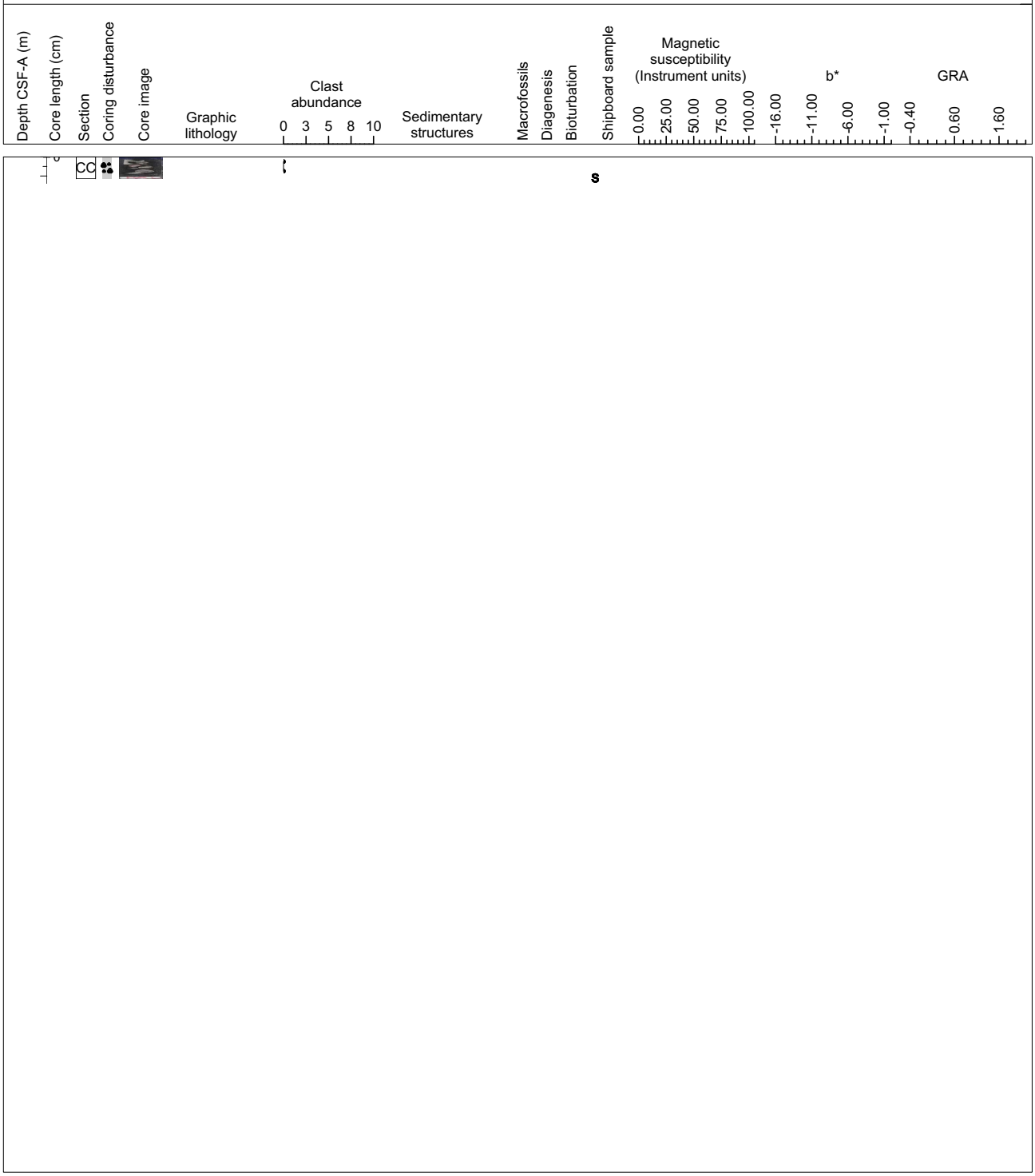
CLAYSTONE AND CALCAREOUS CLAYSTONE. Light greenish grey strongly bioturbated claystone and calcareous claystone interbedded with dark brown parallel laminated claystone. Sparesly bioturbated. Some ripple cross-laminated silt is present. The calcareous claystone contains nannofossil. Pyrite cement is common.



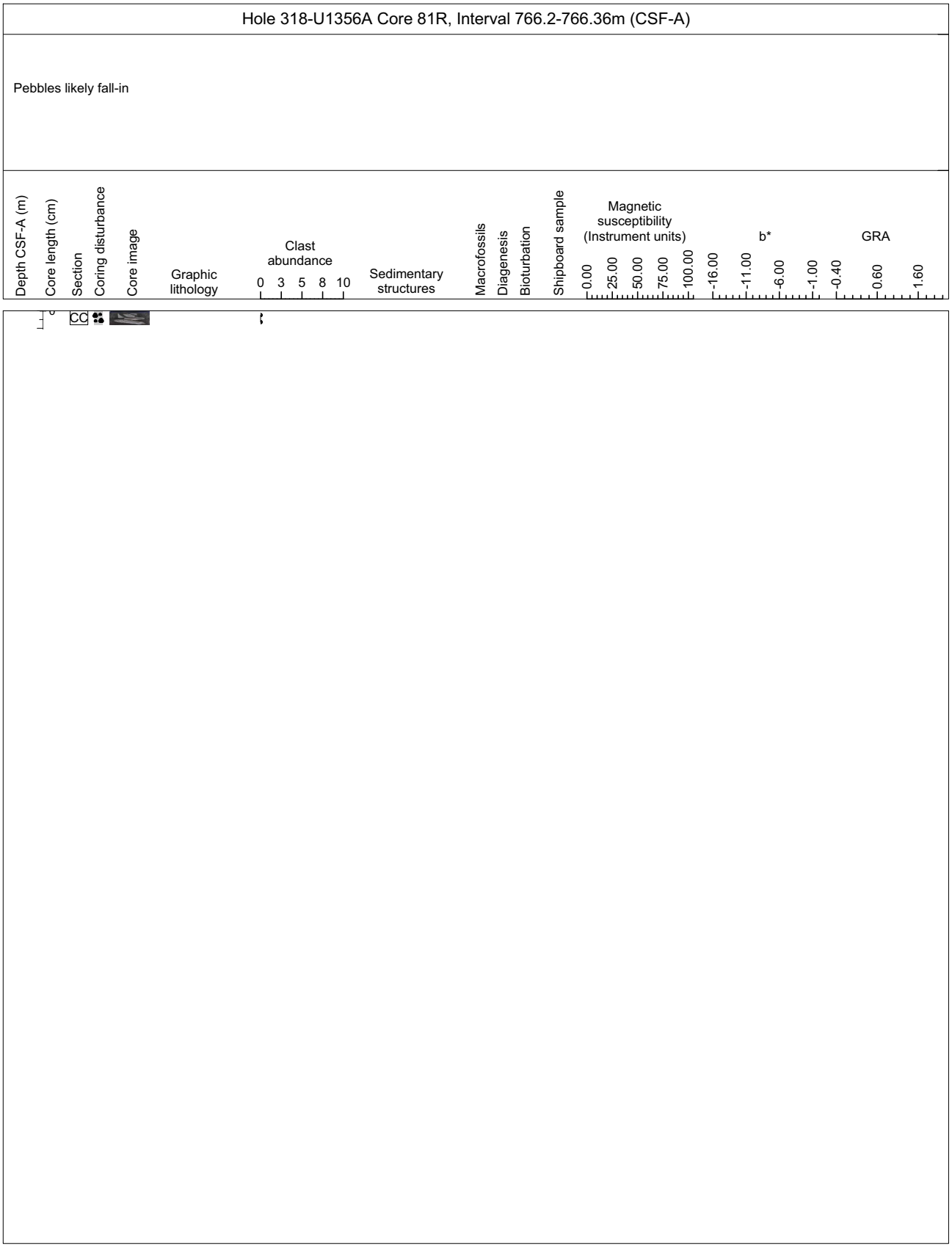
Core Photo

Hole 318-U1356A Core 80R, Interval 756.6-756.83m (CSF-A)

FALL-IN. 8 clasts of igneous and metamorphic origin which are interpreted as fall in.



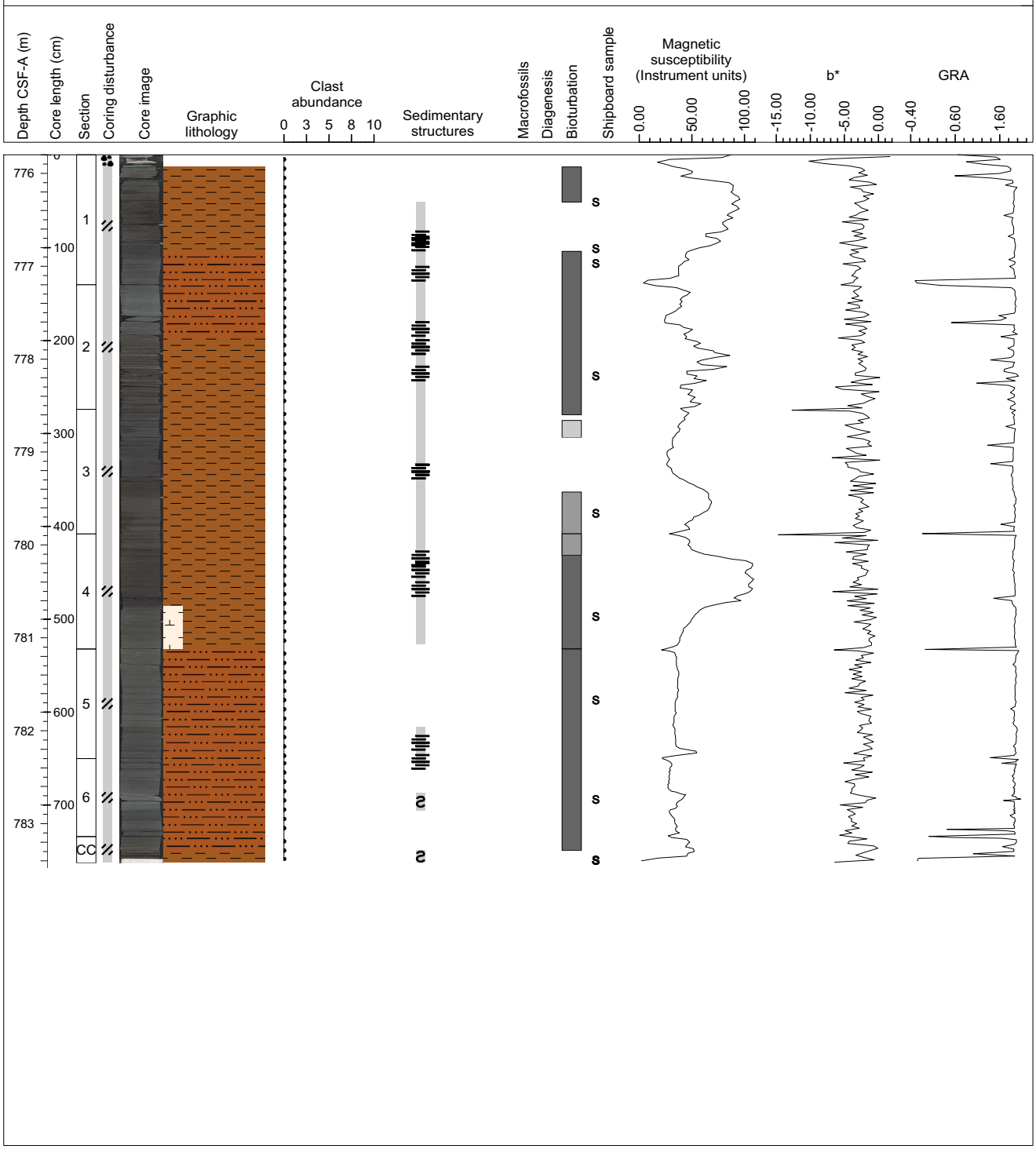
Core Photo


Hole 318-U1356A Core 81R, Interval 766.2-766.36m (CSF-A)
Pebbles likely fall-in
Depth CSF-A (m)
Core length (cm)
Section
Coring disturbance
Core image
Graphic lithology
Clast abundance
0 3 5 8 10
Sedimentary structures
Macrofossils
Diagenesis
Bioturbation
Shipboard sample
Magnetic susceptibility (Instrument units)
0.00 25.00 50.00 75.00 100.00
b*
-16.00 -11.00 -6.00 -1.00 -0.40
GRA
0.60 1.60
CC

Core Photo

Hole 318-U1356A Core 82R, Interval 775.8-783.42m (CSF-A)

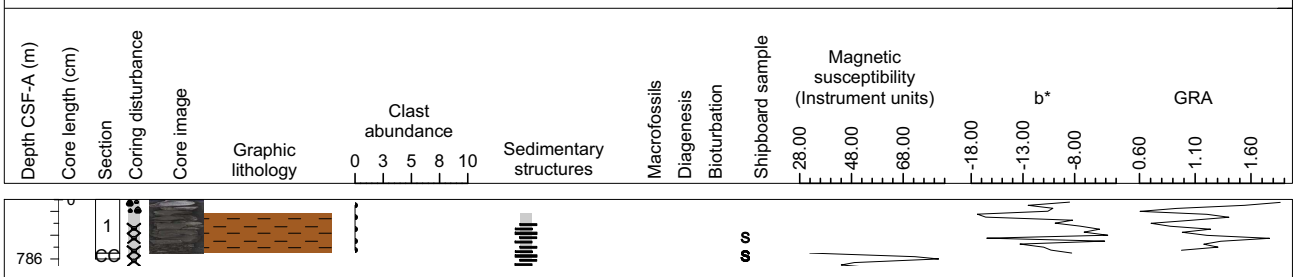
SILTY CLAYSTONE, CLAYSTONE AND NANNOFOSSIL BEARING CLAYSTONE. The olive grey claystones and the nannofossil-bearing claystone have moderate to common bioturbation. The olive brown claystone has pinstripe to mm-scale laminae as defined by colour and silt laminae. Lithified olive-grey nanofossil-bearing claystones occurs in the lower half of section 4 and grades down into silty claystone with common bioturbation.



Core Photo

Hole 318-U1356A Core 83R, Interval 785.5-786.0m (CSF-A)

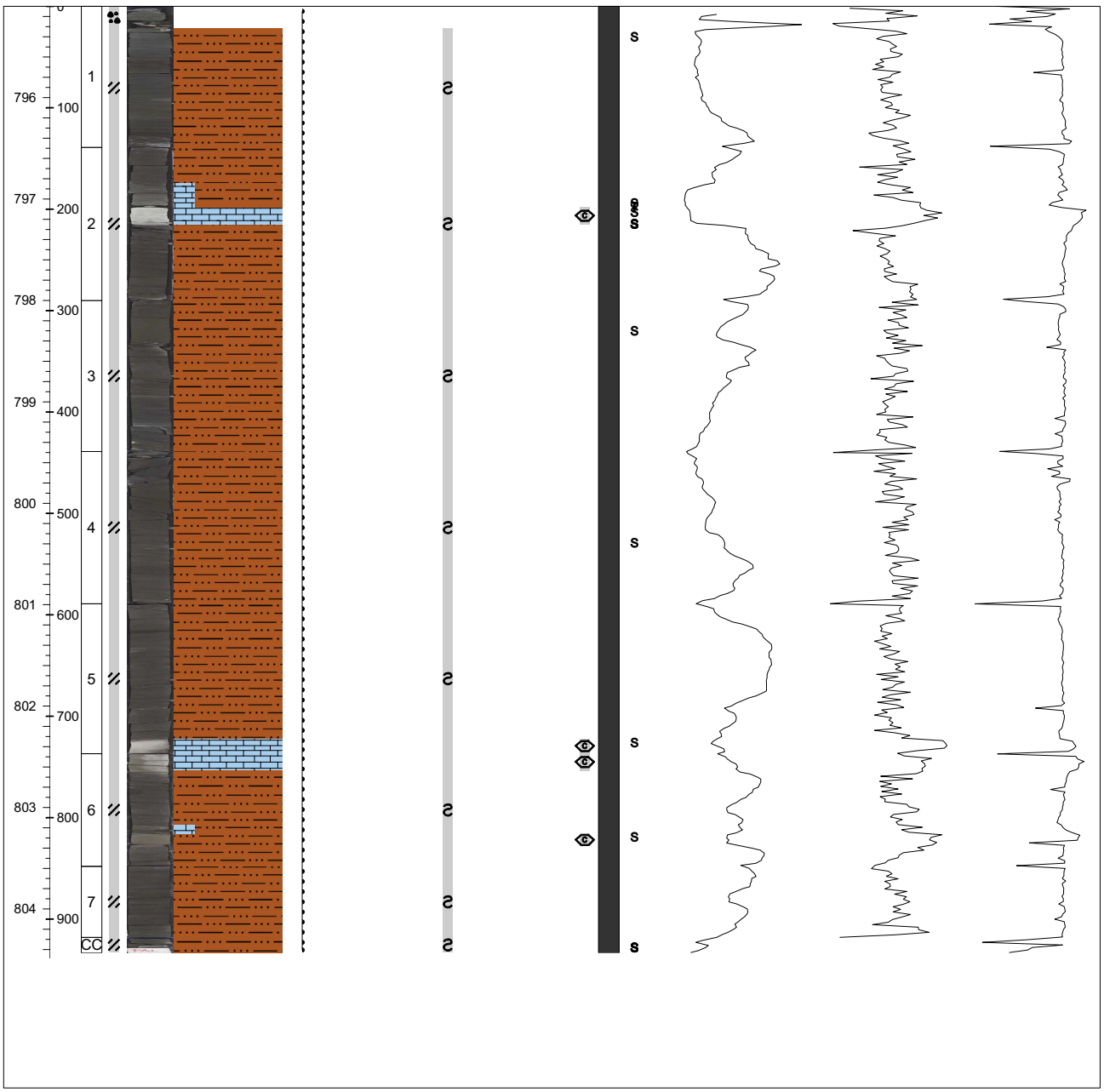
CLAYSTONE. Olive brown with mm and sub-mm pinstripe laminations. Bioturbation is absent. Core is highly brecciated and stratihgraphic integrity is highly suspect.



Core Photo

Hole 318-U1356A Core 84R, Interval 795.1-804.43m (CSF-A)

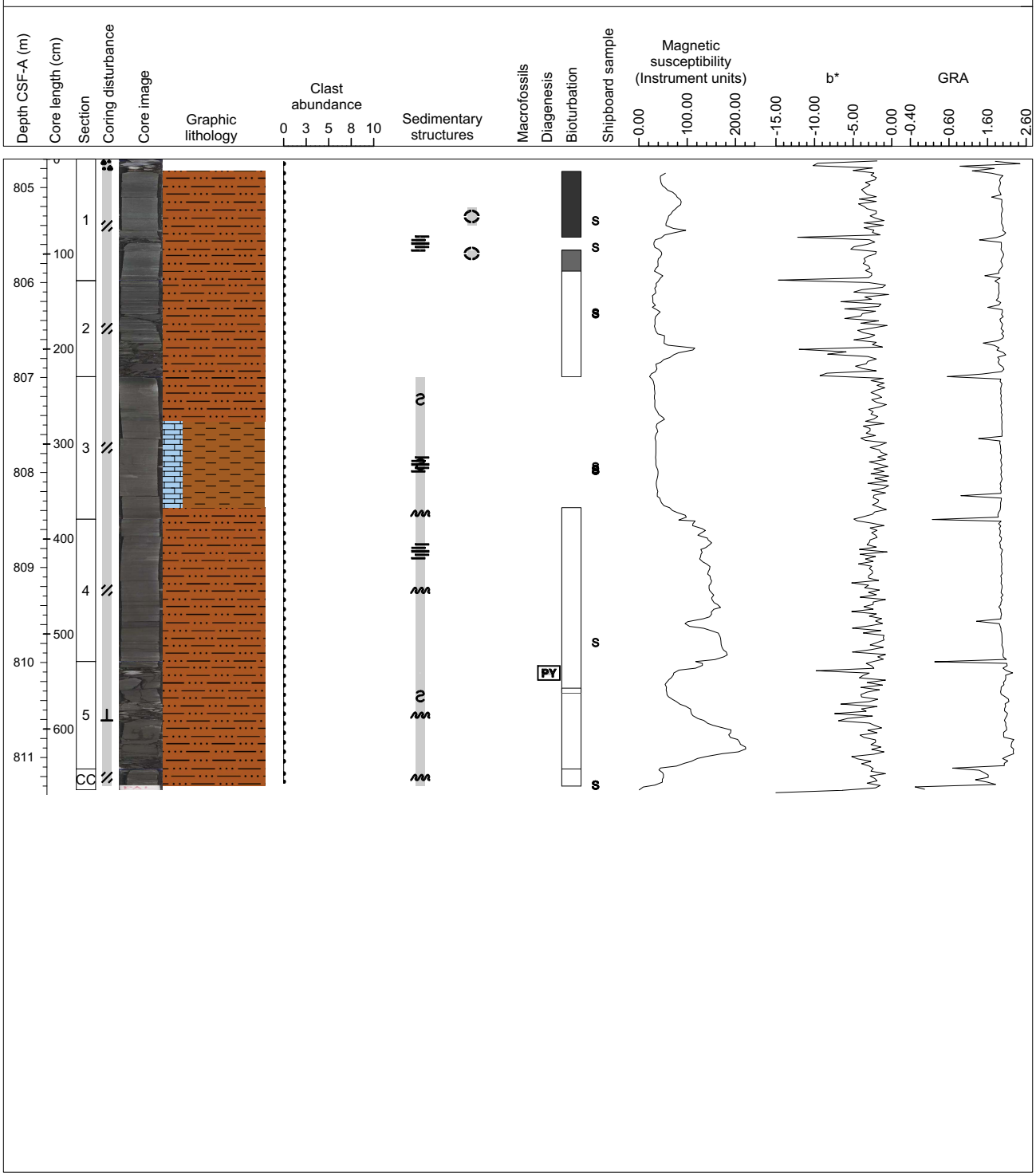
SILTY CLAYSTONE AND LIMESTONE. Dark olive brown silty claystone with contorted bedding. Faint distorted laminae and physical intermixing of bedding (e.g. soft sediment deformation) and occasional pyrite specks occur throughout most the core. Several ~20 cm thick light olive grey limestone beds occur in the core and may be concretions.



Core Photo

Hole 318-U1356A Core 85R, Interval 804.7-811.34m (CSF-A)

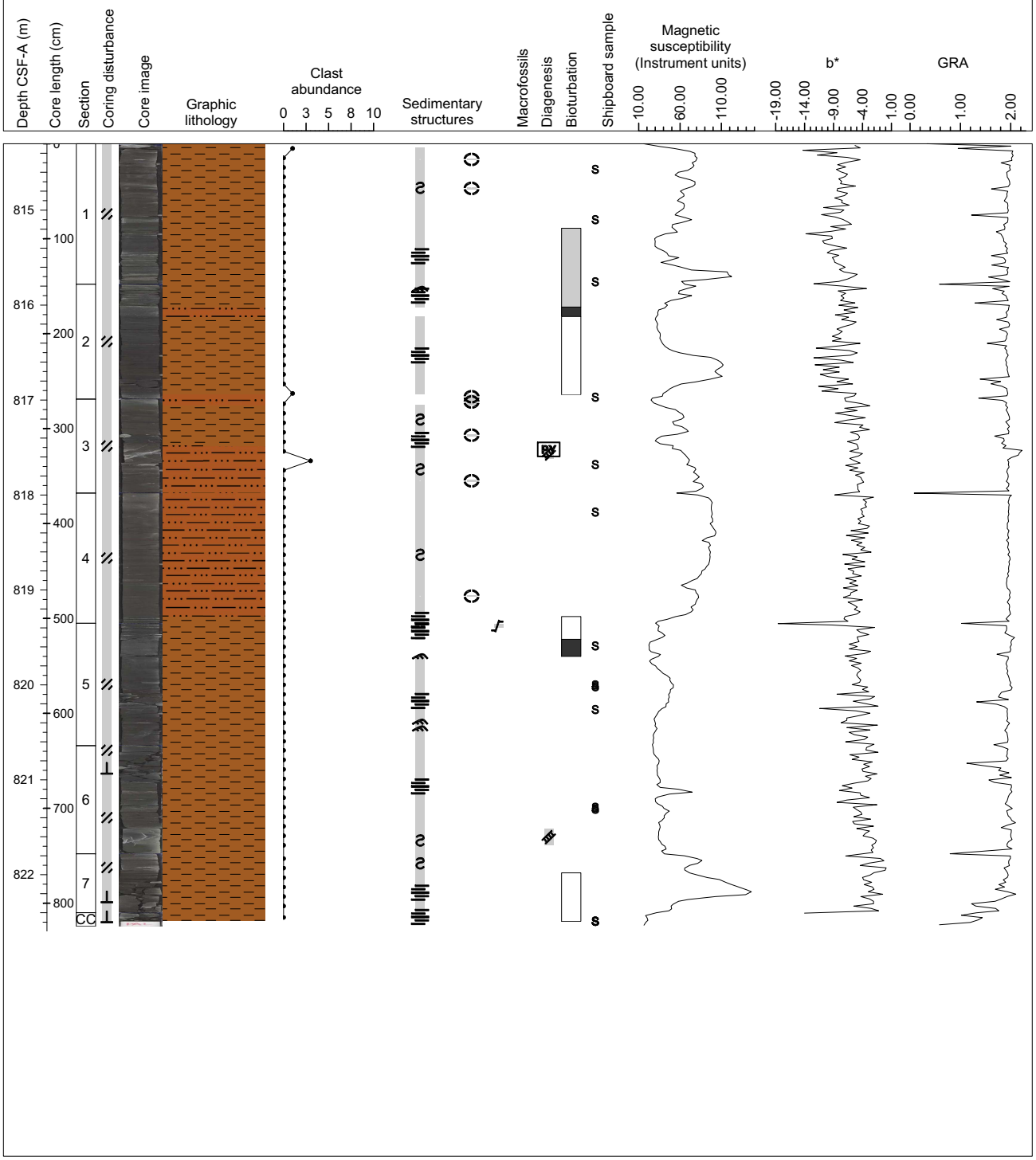
SLITY CLAYSTONE. Top 2 sections are interbedded with bioturbated and laminated silty clays. Bottom 3 sections show convoluted and sheared clay and carbonate bearing clays.



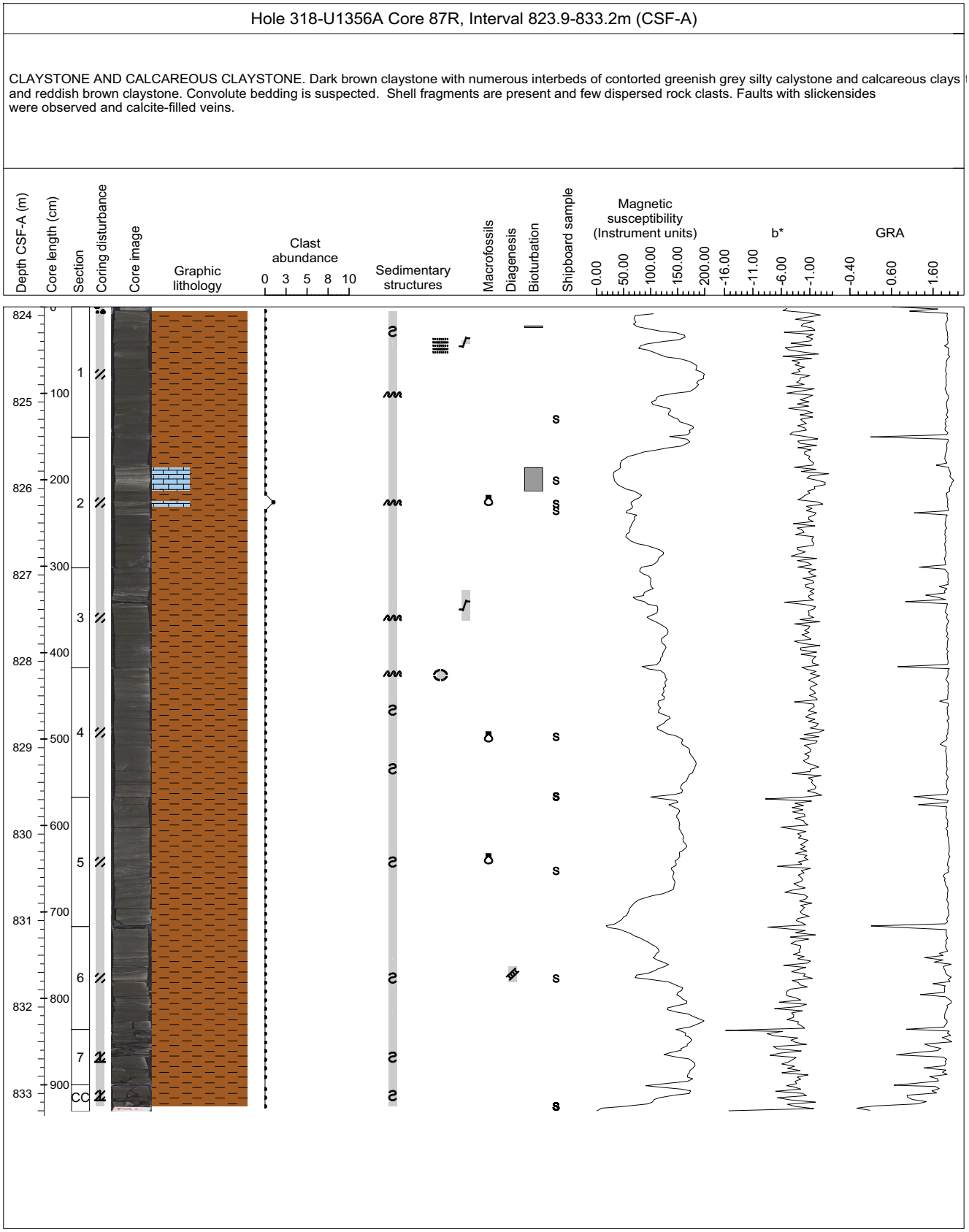
Core Photo

Hole 318-U1356A Core 86R, Interval 814.3-822.54m (CSF-A)

CLAYSTONE AND SILTY CLAYSTONE. Interbedded greenish grey bioturbated silty claystone, dark brown parallel laminated claystone, and massive reddish brown claystone with contorted bedding. A few granule-sized clasts and dispersed sand grains are present at the top of greenish grey beds.



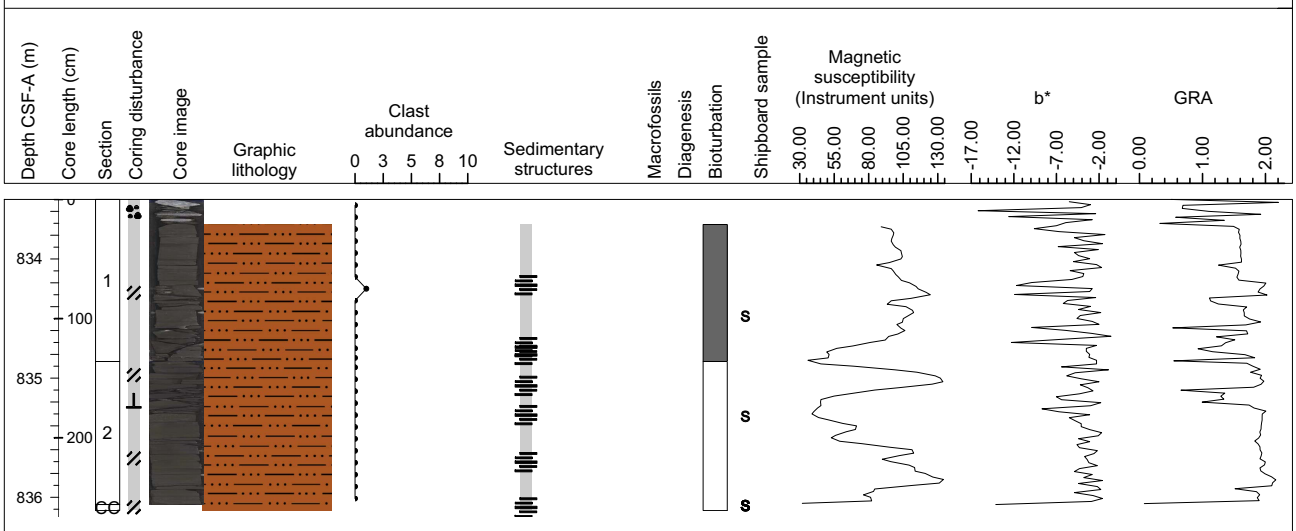
Core Photo


Hole 318-U1356A Core 87R, Interval 823.9-833.2m (CSF-A)
CLAYSTONE AND CALCAREOUS CLAYSTONE. Dark brown claystone with numerous interbeds of contorted greenish grey silty calystone and calcareous clays
and reddish brown claystone. Convolute bedding is suspected. Shell fragments are present and few dispersed rock clasts. Faults with slickensides
were observed and calcite-filled veins.
Depth CSF-A (m)
Core length (cm)
Section
Coring disturbance
Core image
Graphic lithology
Clast abundance
0 3 5 8 10
Sedimentary structures
Macrofossils
Diagenesis
Bioturbation
Shipboard sample
Magnetic susceptibility (Instrument units)
0.00 50.00 100.00 150.00 200.00
b*
-16.00 -11.00 -6.00 -1.00
GRA
-0.40 0.60 1.60
824
825
826
827
828
829
830
831
832
833
1
2
3
4
5
6
7
CC

Core Photo

Hole 318-U1356A Core 88R, Interval 833.5-836.11m (CSF-A)

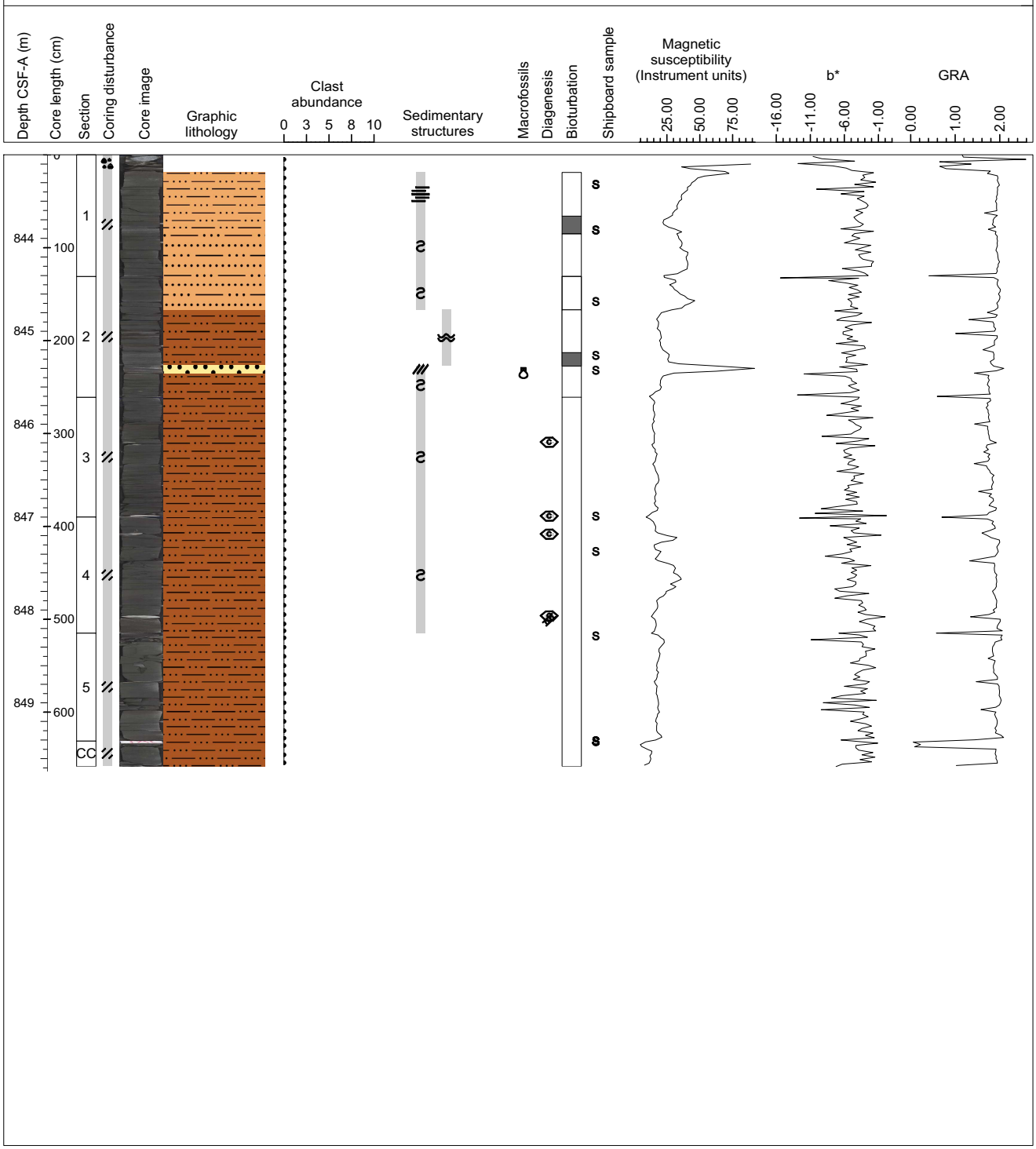
SILTY CLAYSTONE. dark olive brown with faint laminations as defined by color. occasional mm-scale white silt laminae and cm- scale bedding as defined by color bands. Occasional pyrite nodules mm- to cm-scale throughout. Brittle facturing common and occasional slickenslides occur along fracture planes. Smear slides indicate some carbonate cement and nannofossils. Bioturbation ranges from sparse to common.



Core Photo

Hole 318-U1356A Core 89R, Interval 843.1-849.68m (CSF-A)

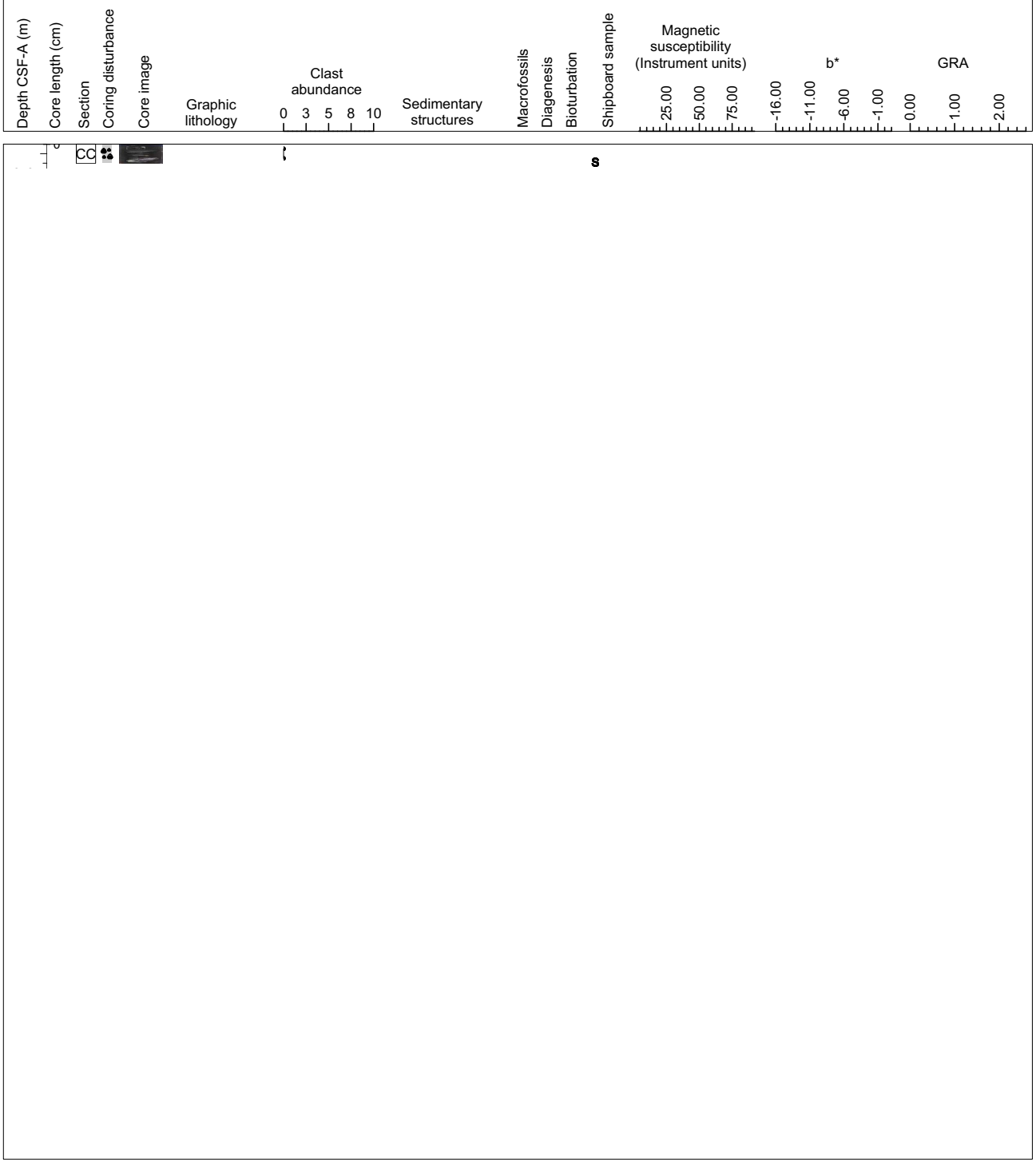
SILTY CLAYSTONE, SANDY MUDSTONE AND SANDSTONE. The upper part of this core consists of finely-laminated clayey siltstone overlying slightly contorted sandy mudstone and silty claystone with occasional silt laminae. A 8 cm thick, fine to medium sandstone bed with well-defined ripple trough cross-stratificaton occurs in section 2, before passing down into a finely laminated and sparsely bioturbated silty claystone with various degres of deformation (slight to moderate).



Core Photo

Hole 318-U1356A Core 90R, Interval 852.7-852.9m (CSF-A)

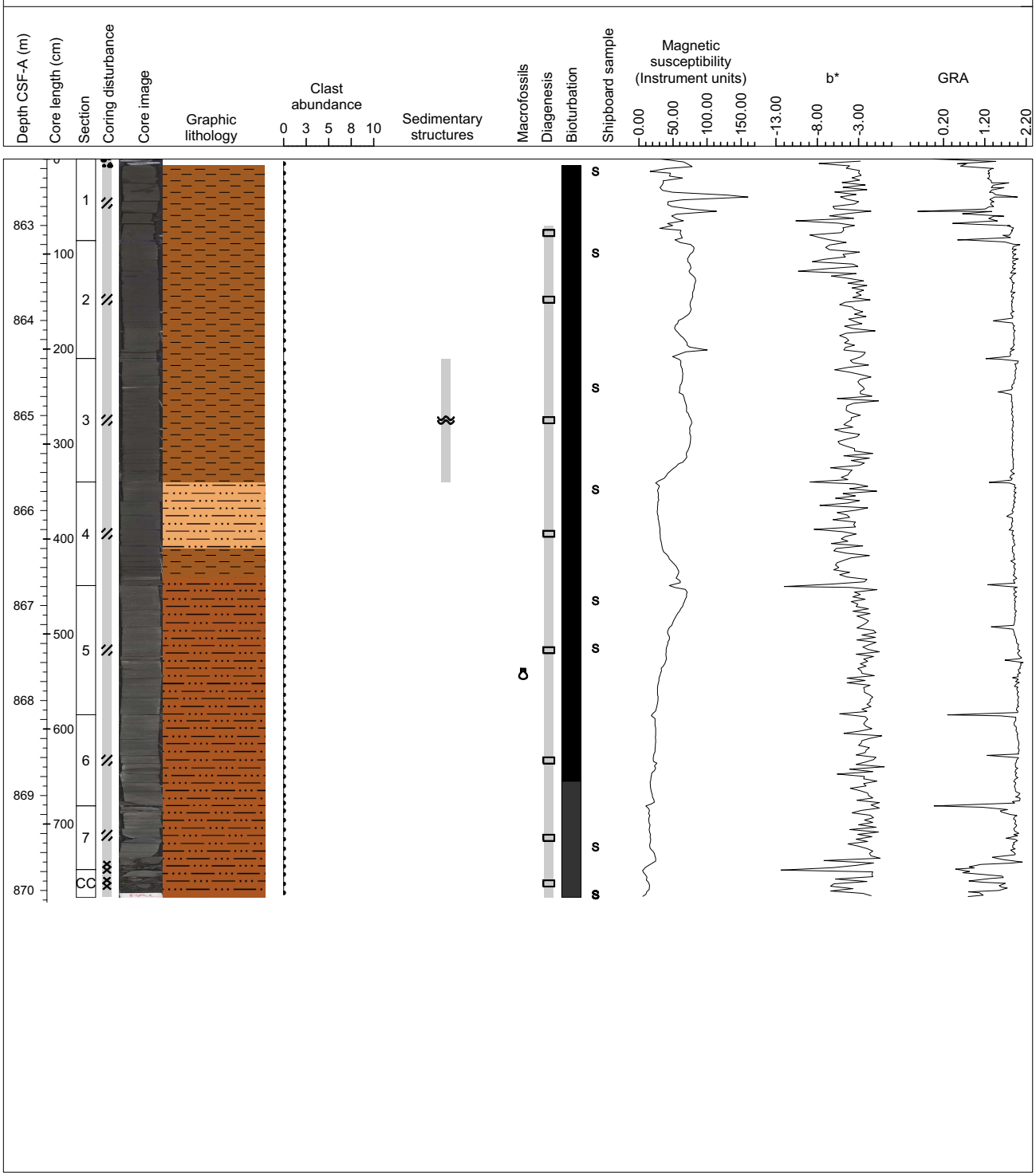
fall-in material consisting of pebbles of various lithologies.



Core Photo

Hole 318-U1356A Core 91R, Interval 862.3-870.07m (CSF-A)

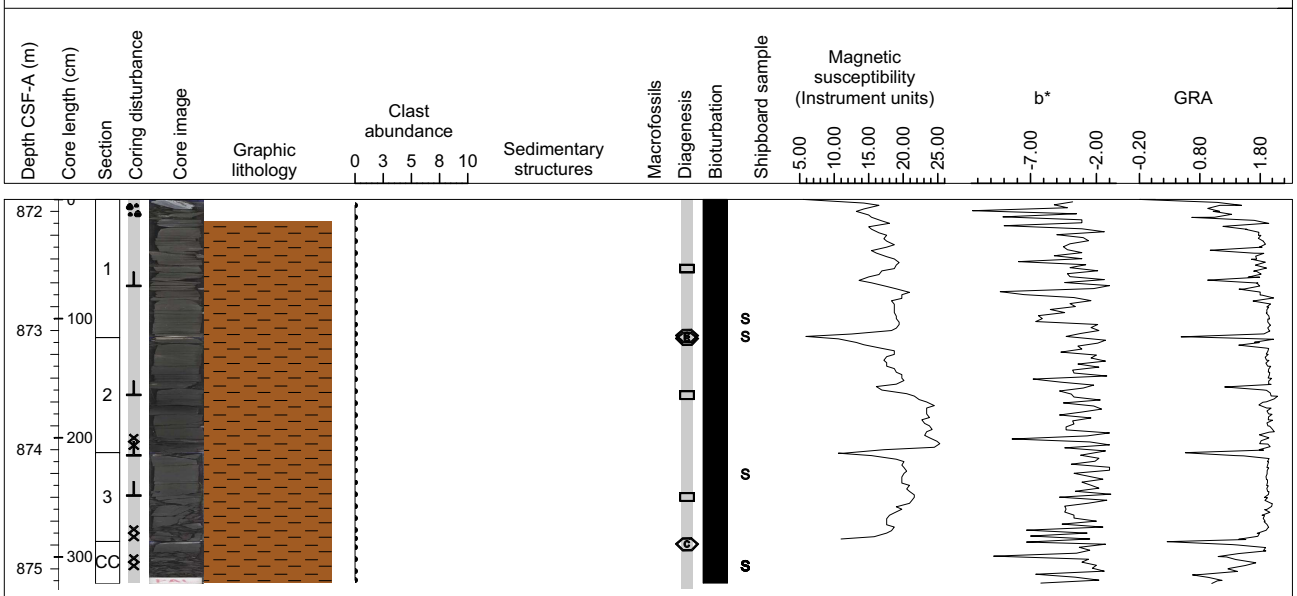
CLAYSTONE AND CLAYEY SILTSTONE. The top of the core is a dark olive brown claystone that is faintly laminated and has sub-mm scale black blebs. Underlying this is a dark green gray silt claystone alternating with intervals of clayey siltstone. Shell fragment at 93 cm in section 5. Pyrite layers appear as mm-scale to sub-mm scale layars in the lowermost sections of the core.The entire core has been heavily biorutbated prior to diagnensis (e.g. abundant to complete) and has resulted in most sedimentary structure being obscured.



Core Photo

Hole 318-U1356A Core 92R, Interval 871.9-875.12m (CSF-A)

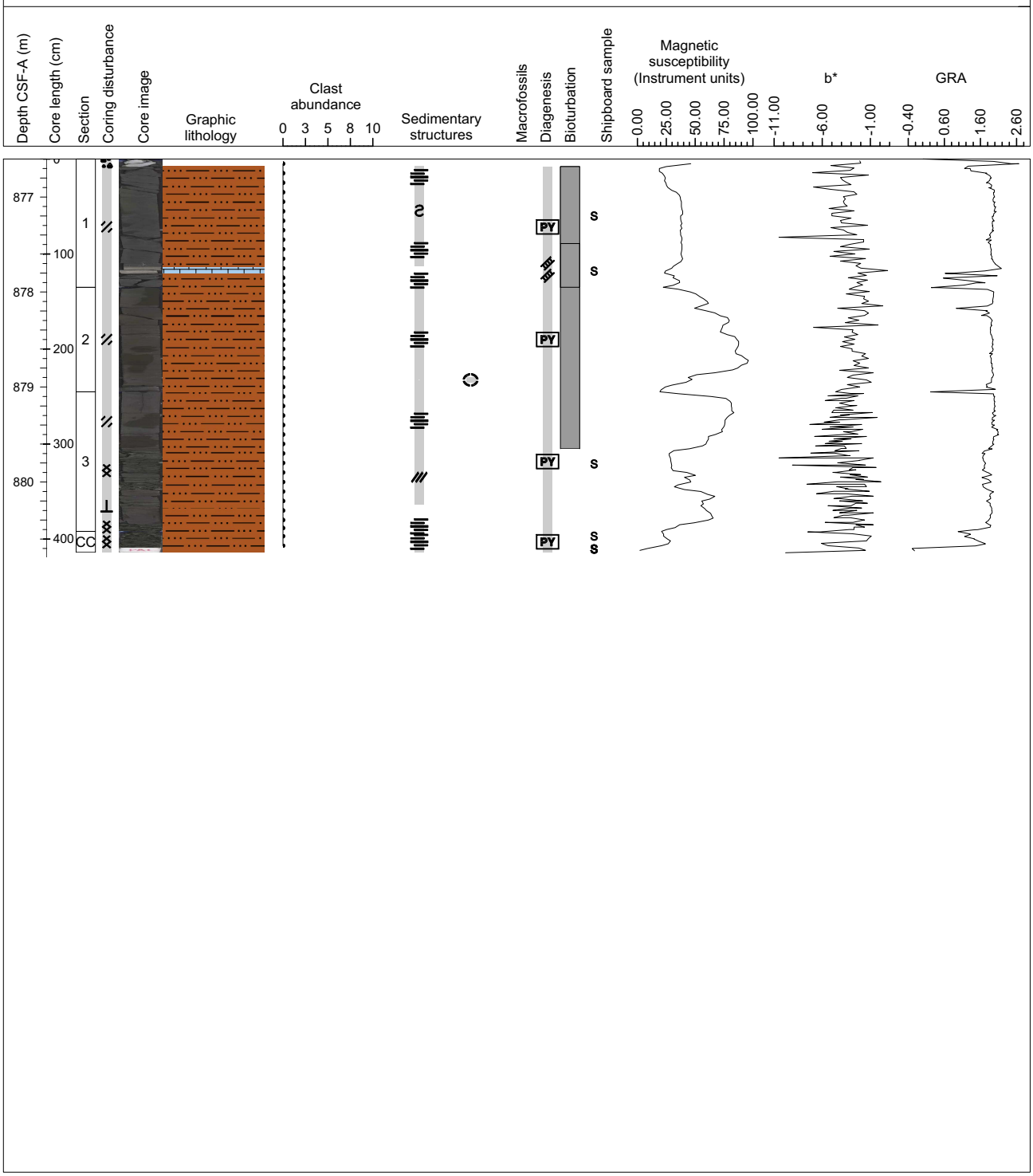
CLAYSTONE. Dark olive brown claystone, faintly laminated with sub-mm scale black blebs. Diagenetic features include subvertical fractures cross-cutting faint laminae as well as burrows. Faint burrow traces appear flattened throughout. Section has been heavily bioturbated prior to diagenesis (e.g. abundant to complete). Micritic carbonate concretion and a carbonate-filled burrow also occur.



Core Photo

Hole 318-U1356A Core 93R, Interval 876.6-880.74m (CSF-A)

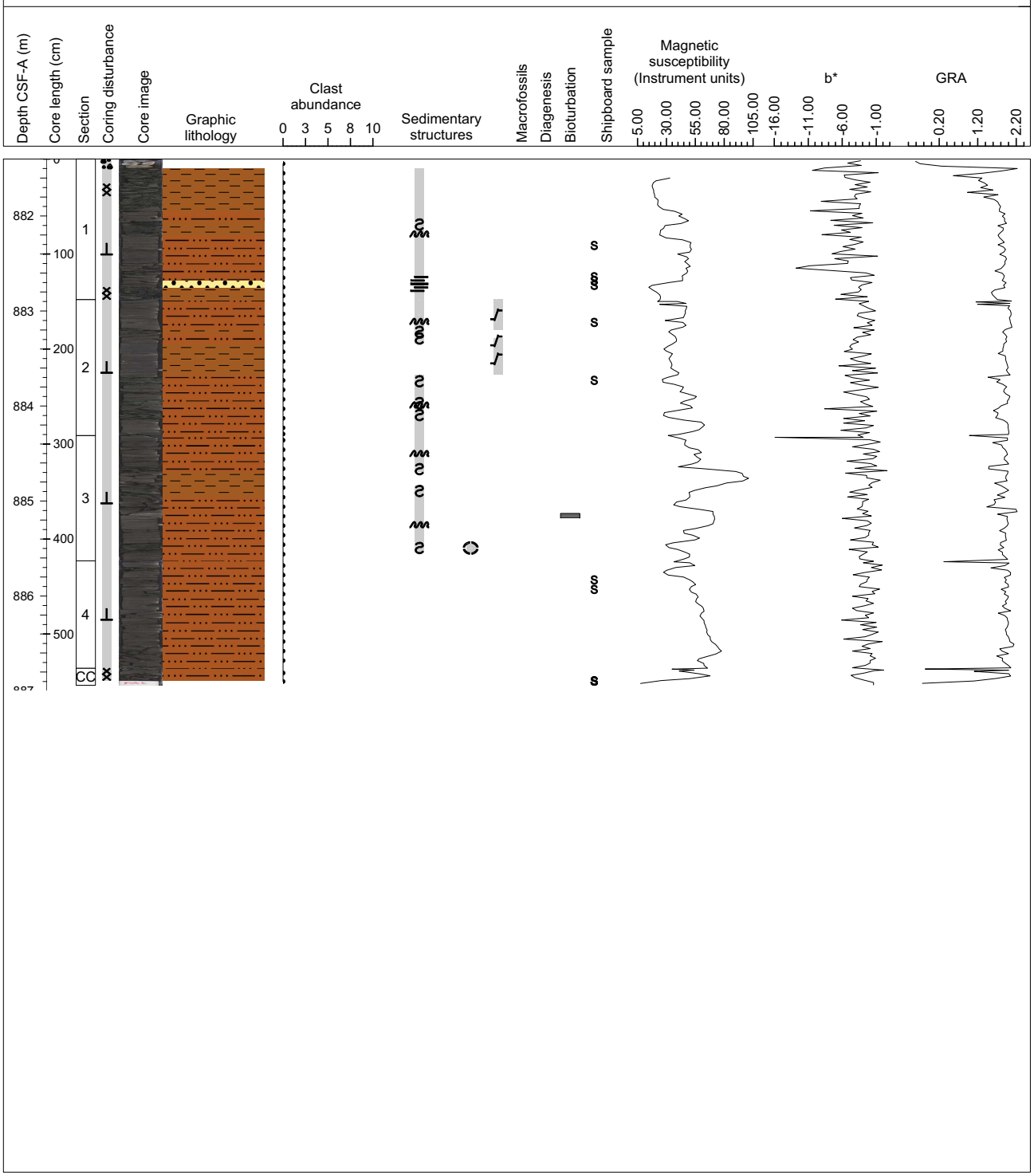
SILTY CLAYSTONE. The top of this core contains olive grey silty claystone with faint pinstripe and mm-scale laminations, although some sections have contorted bedding and/or moderate bioturbation. Two distinct green silty claystone interbeds occur in section 3 and have intervals of ripple trough cross stratification and parallel laminae. Smear slides indicate a general absence of glauconite grains and low carbonate in these intervals.



Core Photo

Hole 318-U1356A Core 94R, Interval 881.4-886.94m (CSF-A)

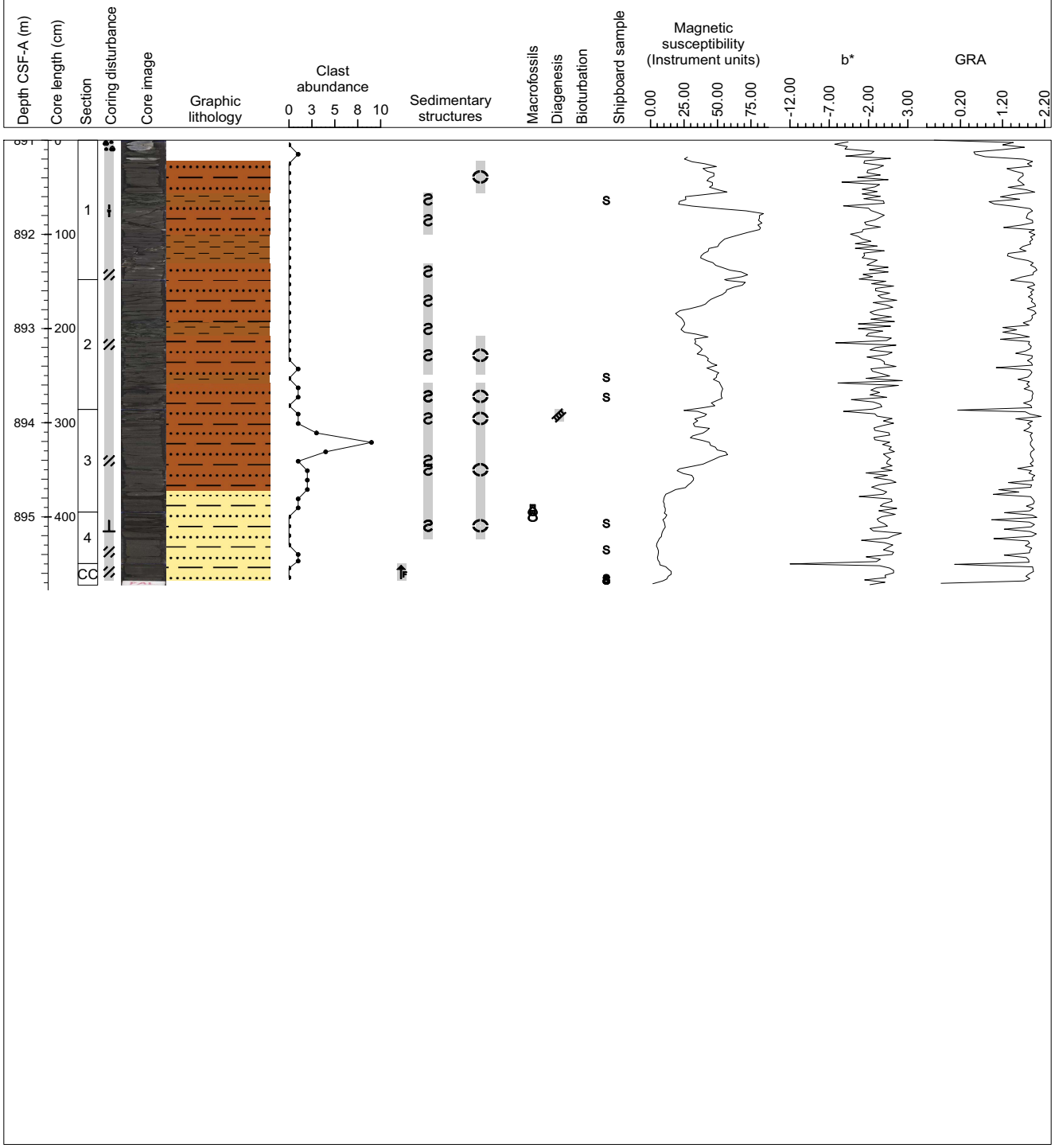
SILTY CLAYSTONE, CLAYSTONE, AND SANDSTONE. Interbedded dark olive grey and green silty calystone and claystone. One stratified sandstone bed is present, 7cm thick. Minor bioturbation, but possible carbonate fossil fragments are present. Glauconite was observed in a smear slide of the sandstone bed.



Core Photo

Hole 318-U1356A Core 95R, Interval 891.0-895.725m (CSF-A)

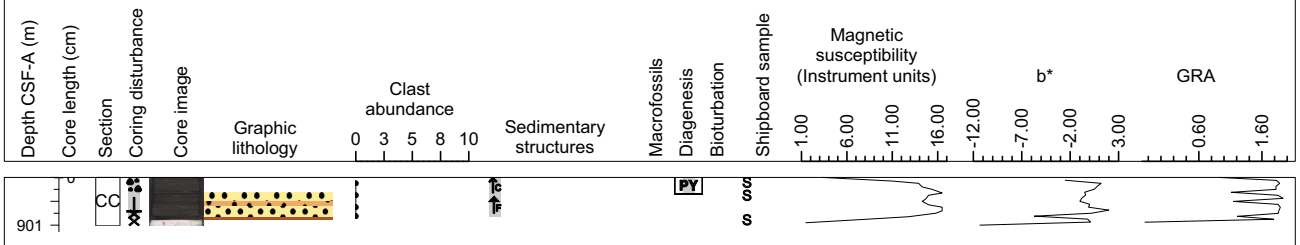
SANDY CLAYSTONE AND MUDY CLAYSTONE WITH DISPERSED CLASTS. Numerous contorted beds, laminae and intraclasts are present in the grey sandy claystones and muddy sandstones. Post-sedimentary faults and vein fillings of calcite are present as well. Clast sizes are up to 5mm.



Core Photo

Hole 318-U1356A Core 96R, Interval 900.6-901.0m (CSF-A)

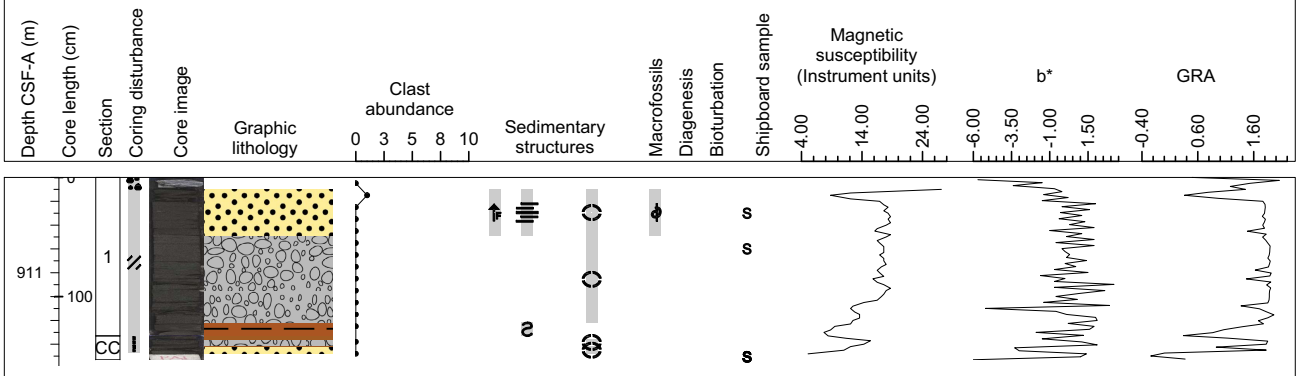
FINE SANDSTONE. SILTSTONE AND CLAYSTONE. Both normal and reverse graded beds are present at dm-scale thickness. The sandstones contain mica. Pyrite cement is present.



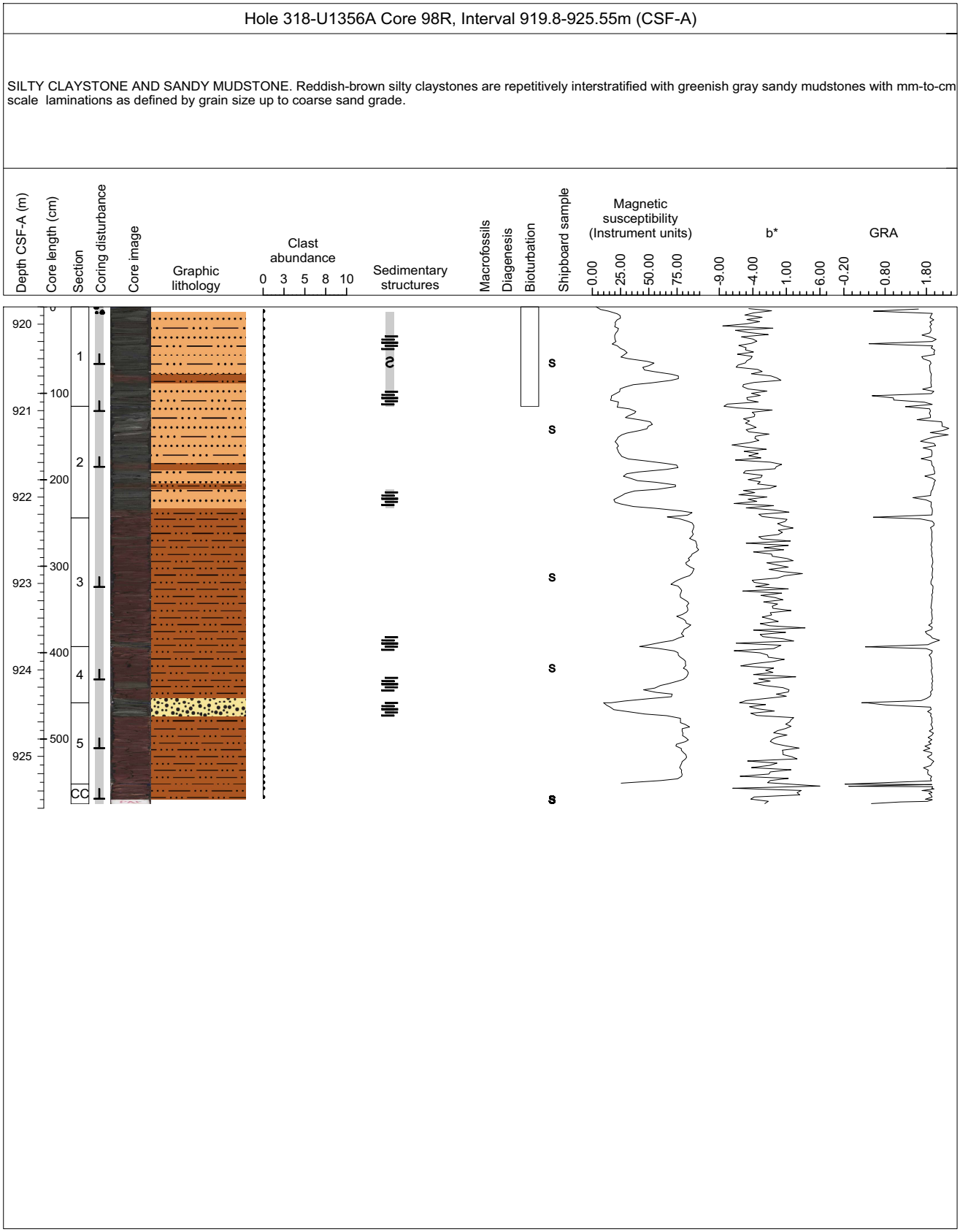
Core Photo

Hole 318-U1356A Core 97R, Interval 910.2-911.73m (CSF-A)

SANDSTONE AND INTRACLAST CONGLOMERATE. One large finery upward bed is present. Sandstone contain mica. Intraclasts are mainly green claystone.



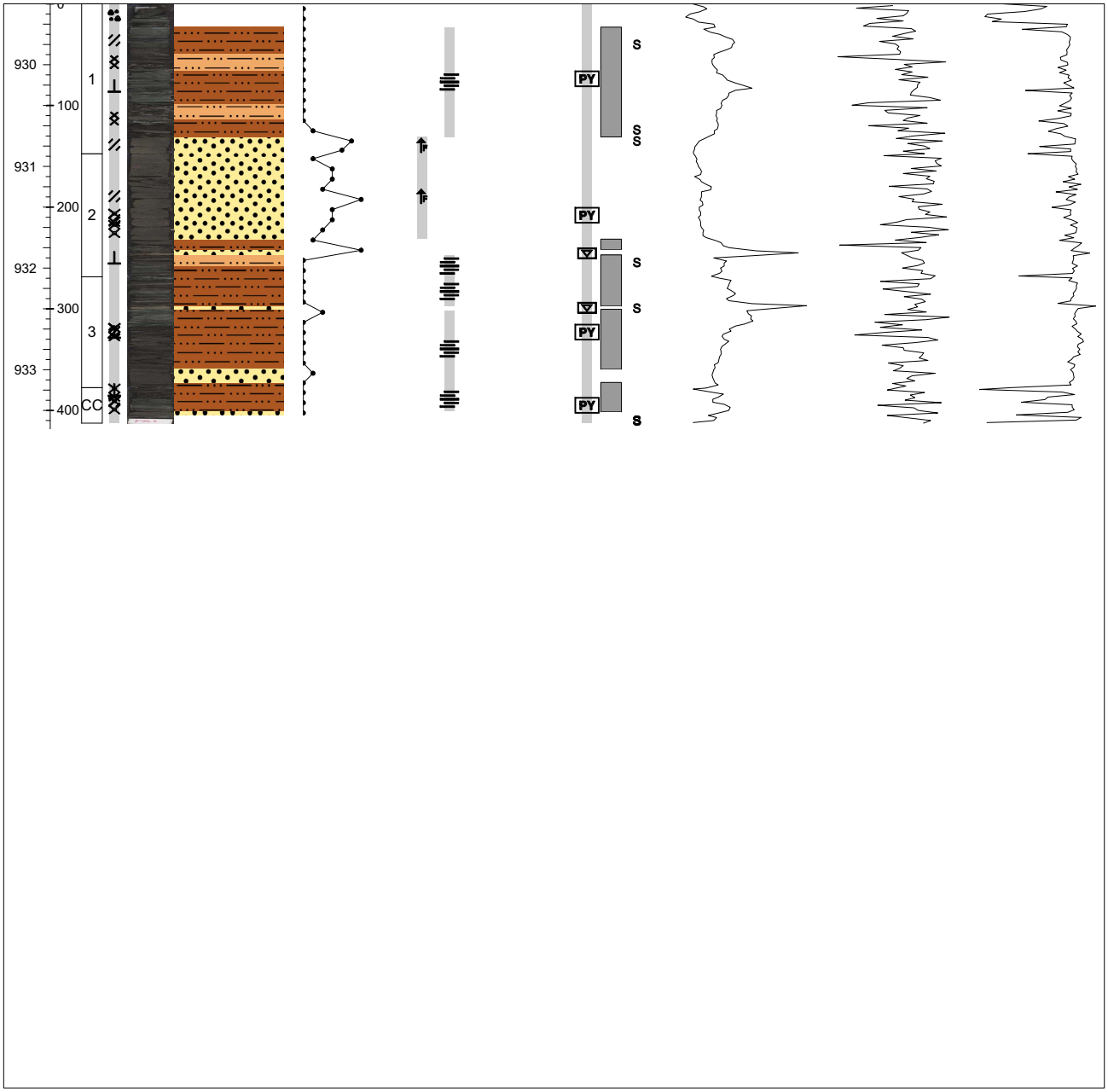
Core Photo


Hole 318-U1356A Core 98R, Interval 919.8-925.55m (CSF-A)
SILTY CLAYSTONE AND SANDY MUDSTONE. Reddish-brown silty claystones are repetitively interstratified with greenish gray sandy mudstones with mm-to-cm scale laminations as defined by grain size up to coarse sand grade.
Depth CSF-A (m)
Core length (cm)
Section
Coring disturbance
Core image
Graphic lithology
Clast abundance
0 3 5 8 10
Sedimentary structures
Macrofossils
Diagenesis
Bioturbation
Shipboard sample
Magnetic susceptibility (Instrument units)
0.00 25.00 50.00 75.00
b*
-9.00 -4.00 1.00 6.00
GRA
-0.20 0.80 1.80
920
921
922
923
924
925
100
200
300
400
500
1
2
3
4
5
CC
S

Core Photo

Hole 318-U1356A Core 99R, Interval 929.4-933.525m (CSF-A)

SILTY CLAYSTONE AND SANDSTONE WITH DISPERSED CLASTS. Alternations of olive green grey silty claystone interstratified with fissle brown grey clayey siltstone with mm-scale laminations as defined by grainsize. Both lithologies contain sub-cm-scale horizontally-aligned oblate burrows. Several units of brownish grey sandstone with dispersed to common clasts (some of which are intracalsts) also occur. The sandstone units have sharp upper and lower contacts, and one ~1-m-thick interval has crude normal grading.



Core Photo

Hole 318-U1356A Core 100R, Interval 939.1-940.425m (CSF-A)

SANDSTONE WITH COMMON CLASTS AND SILTY CLAYSTONE. Light brown sandstone with common intraclasts and quartz. The sandstones have sharp upper basal contact and are interstratified silty claystone and clayey siltstone that are finely laminated as defined by color and grain size. The base of the core contains a clast-poor muddy diamictite.
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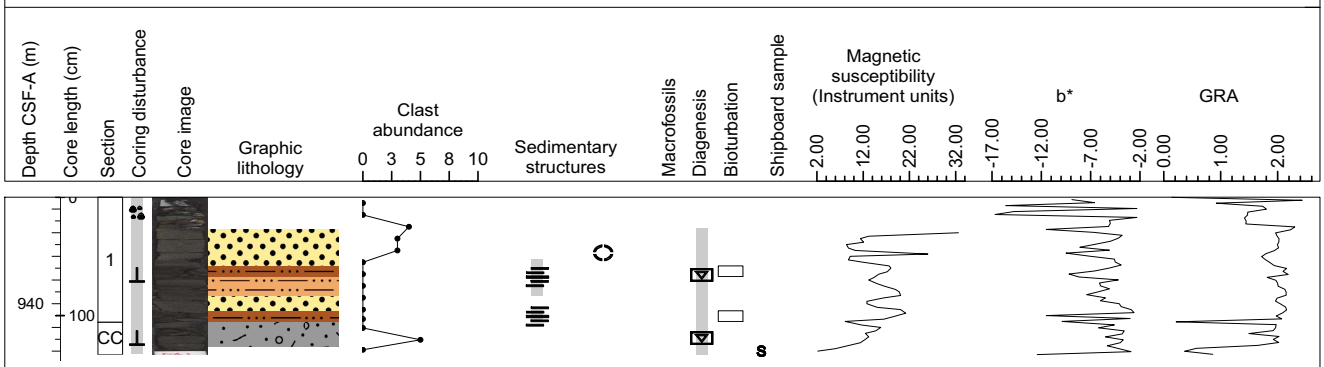
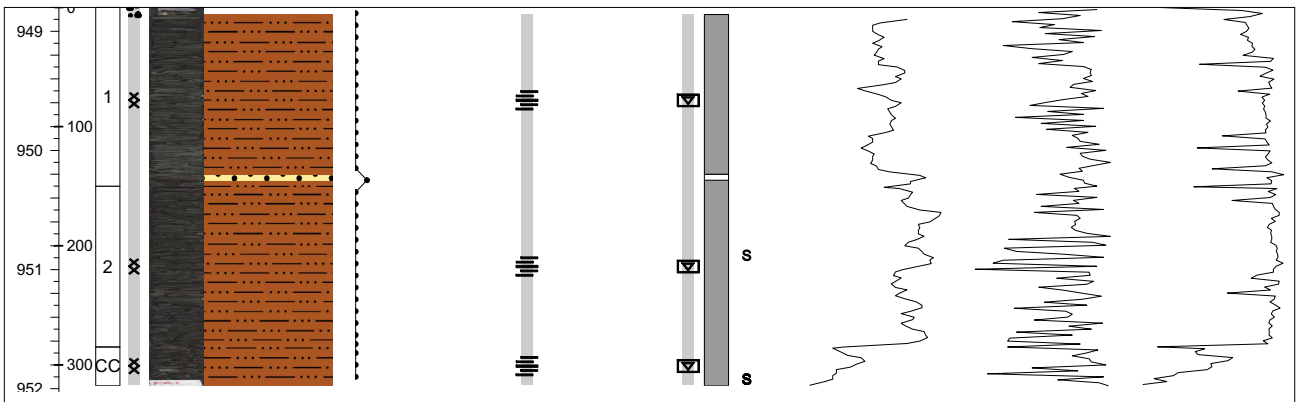


Core Photo

Hole 318-U1356A Core 101R, Interval 948.8-951.97m (CSF-A)

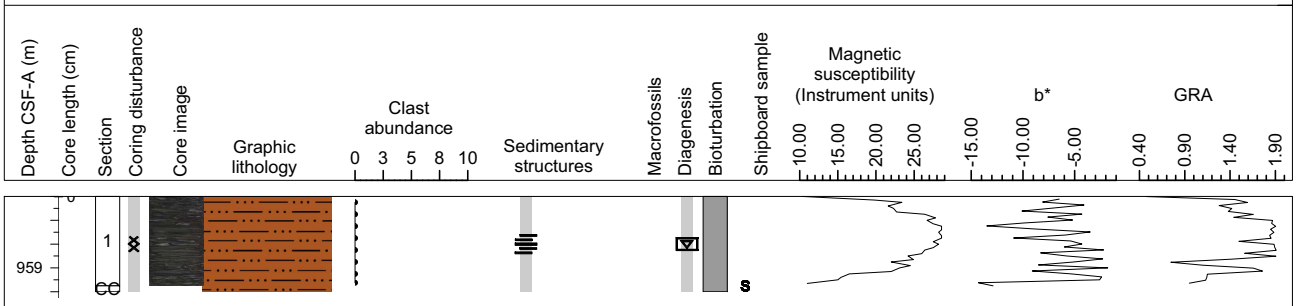
SILTY CLAYSTONE. Brownish green silty claystone cm-scale laminations as defined by color. Moderate bioturbation throughout. Brittle fracturing produced by drilling, but indicative of degree of lithification. A 4-cm-thick fine to medium-grained brown sandstone occurs at the base of section 1, but upper and lower contacts are obscured by drilling disturbance.



Core Photo

Hole 318-U1356A Core 102R, Interval 958.4-959.2m (CSF-A)

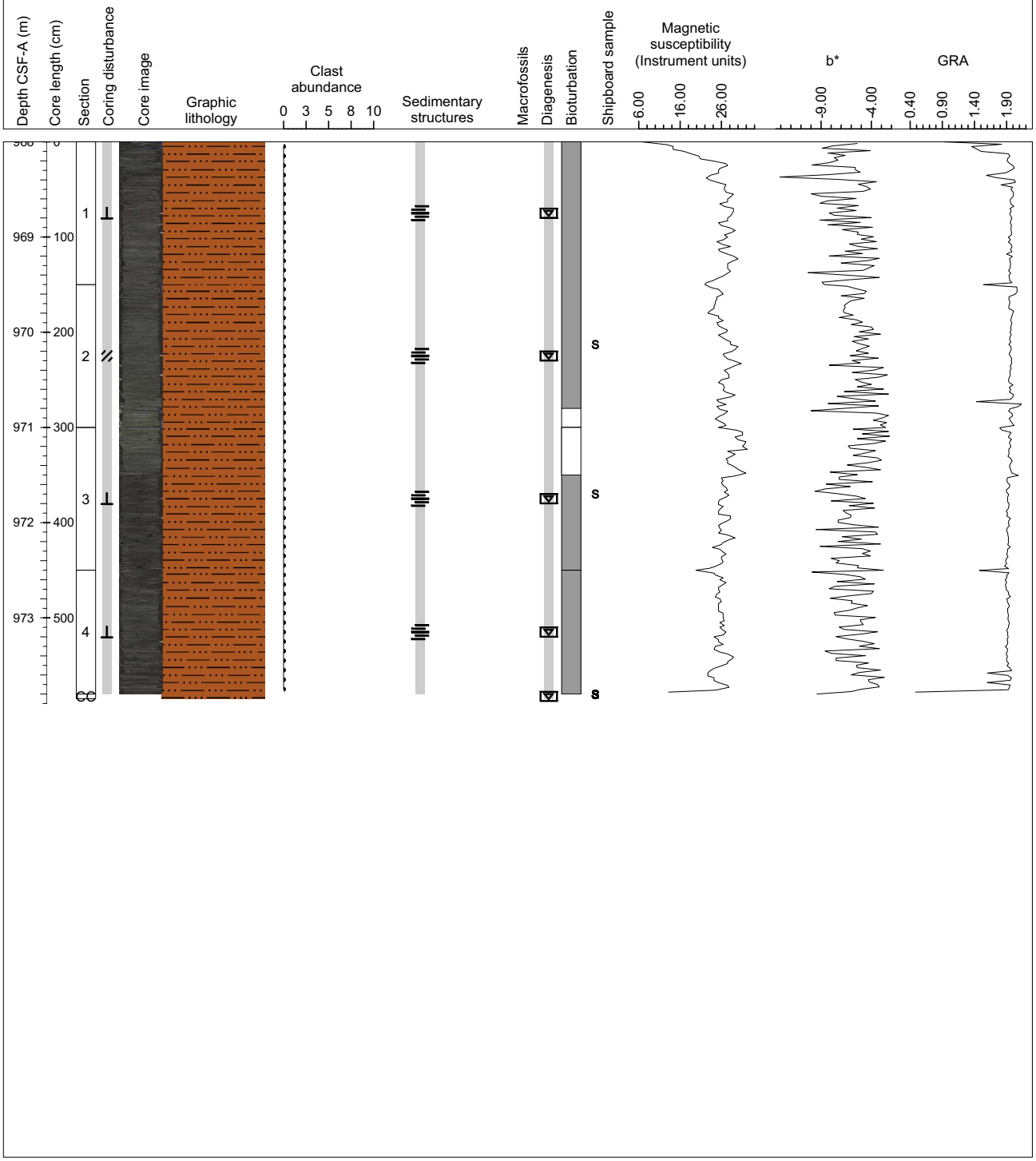
SILTY CLAYSTONE. Brownish green silty claystone cm-scale laminations as defined by color. Moderate bioturbation throughout. Brittle fracturing produced by drilling, but indicative of degree of lithification.



Core Photo

Hole 318-U1356A Core 103R, Interval 968.0-973.85m (CSF-A)

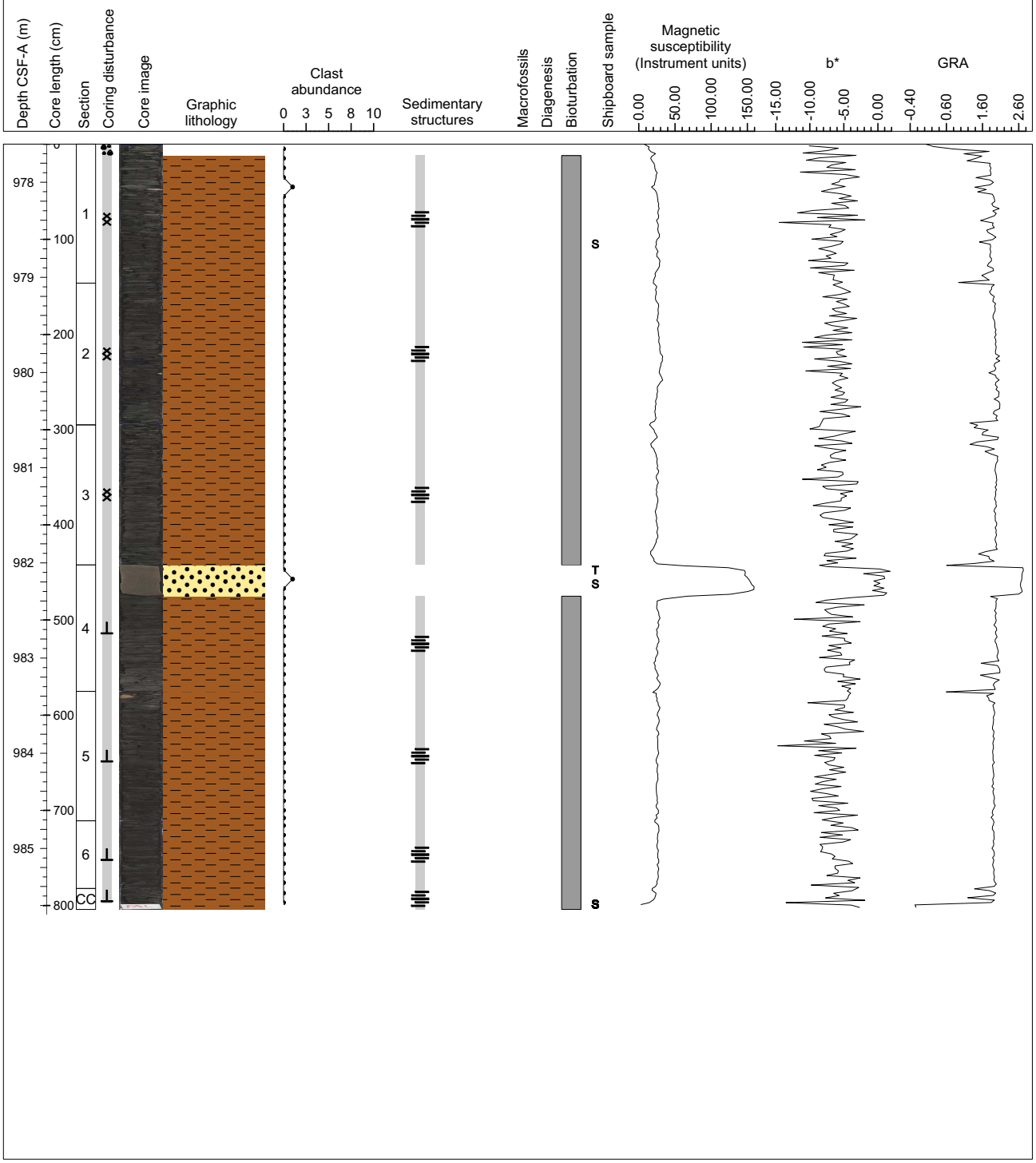
SILTY CLAYSTONE. Brownish green silty claystone with occasional mm- and cm-scale laminations as defined by color. Bioturbation varies throughout, ranging from sparse to common. Brittle fracturing produced by drilling but is indicative of degree of lithification.



Core Photo

Hole 318-U1356A Core 104R, Interval 977.6-985.64m (CSF-A)

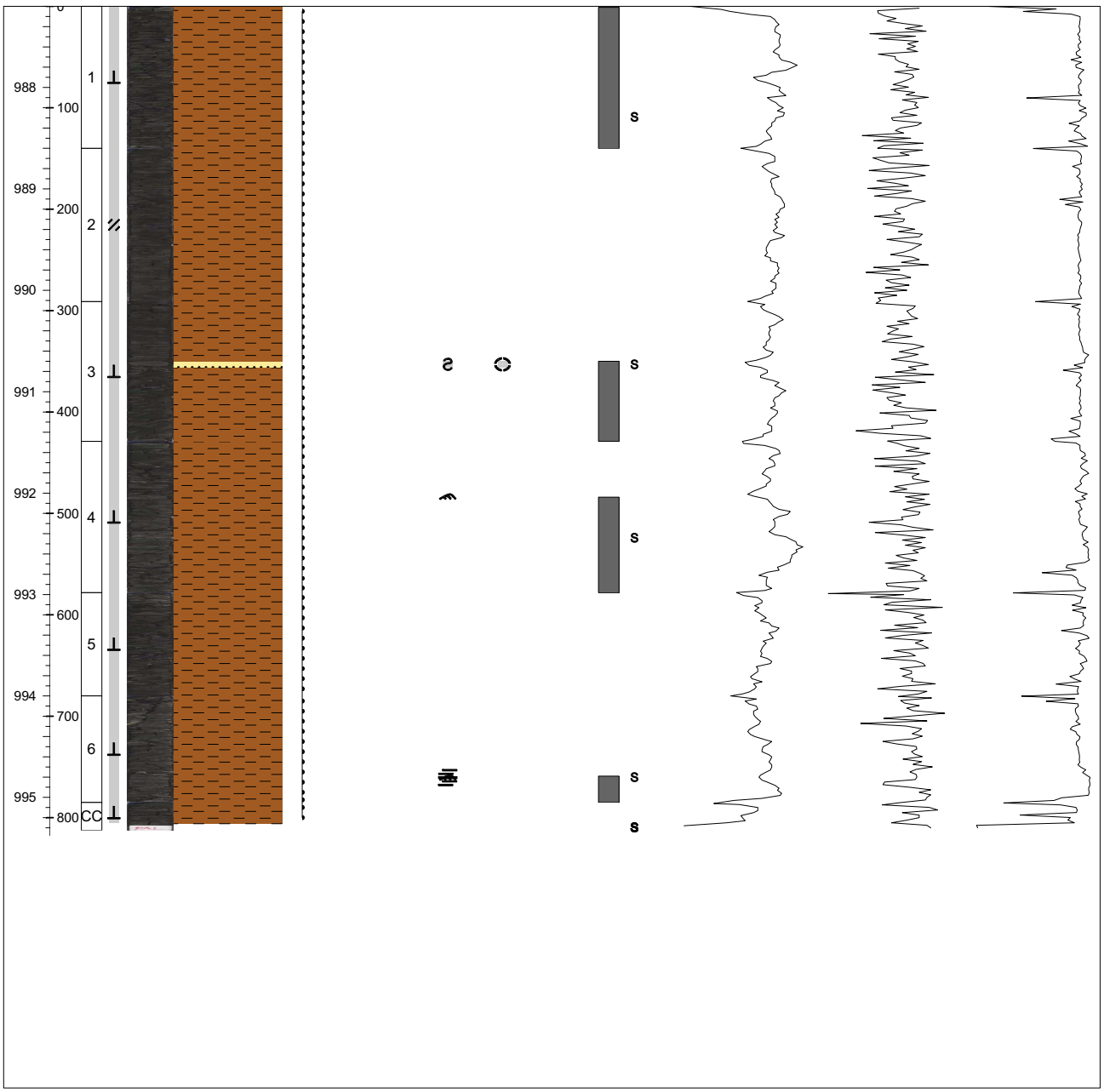
CLAYSTONE. Brownish green claystone with occasional mm- and cm-scale laminations as defined by color. Bioturbation varies throughout, ranging from moderate to common. A mafic volcaniclastic pebble (modal size of 30x22m) occurs at 47 cm, while a conspicuous well-sorted fine to medium sandstone occurs between 0 and 33 cm (section 4), likely sub-arkosic in composition. Contacts are extremely sharp with no apparent deformation of underlying unit. This sandstone is highly indurated relative to surrounding rock is likely to be a boulder-sized clast.



Core Photo

Hole 318-U1356A Core 105R, Interval 987.2-995.32m (CSF-A)

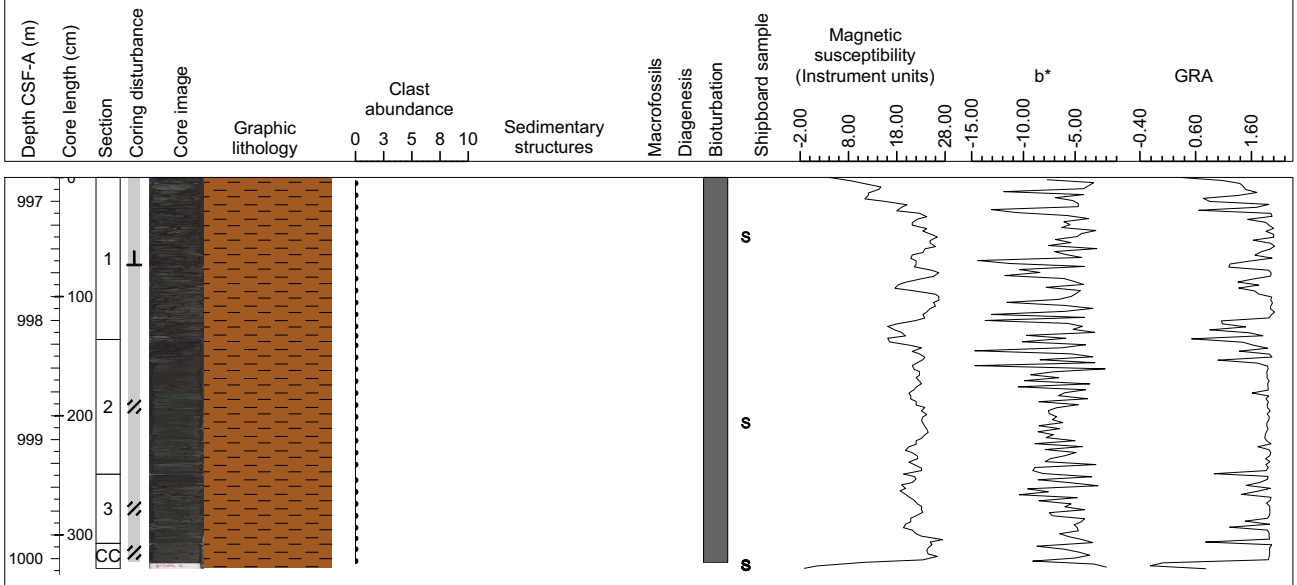
CLAYSTONE. Dark green bioturbated claystone with Zoophycos ichnofacies are present, up to 6cm thick. Bedding is present in dark and light colour changes and is inclinded in large portions of the core.



Core Photo

Hole 318-U1356A Core 106R, Interval 996.8-1000.08m (CSF-A)

CLAYSTONE. Dark green bioturbated claystone. Zoophycos burrows are present. A colour change from dark to lighter green is visible.



Samples					Texture			Mineral										Biogenic										Rock		Lithology	
Site	Core	Section	Depth in section (cm)	Depth (m)	% Volcanic sediments	% Terrigenous sediments	% Biogenic sediments	Quartz	Feldspar	Micas	Clay	Glauconite	Ferromagnesian minerals	Dense minerals	Pyrite	Opaque minerals	Carbonate	Micrite	Foraminifers	Nannofossils	Calcareous sponge spicules	Radiolarians	Diatoms	Silicoflagellates	Spicules	Siliceous debris	Dinoflagellates	Fish remains	Rock fragments	Volcanic glass	Lithology abundance	Lithology name
U1356	1	1	3	0	0	37	63	2			30												50		3	10			5		Ma	clay rich diatom ooze
U1356	1	1	24	0	0	47	53	10	1		30				2							1	50		1	3			2		Ma	clay rich diatom ooze
U1356	1	1	66	1	0	70	30	10	5		20				35								25		2	3					Mi	pyrite rich silty clay
U1356	1	1	85	1	0	48	52	10	1		30				3							1	50		2	2			1		Ma	clay rich diatom ooze
U1356	1	2	64	2	0	45	55	10	1		30				2							1	50	1	2	1			2		Ma	clay rich diatom ooze
U1356	1	2	127	3	0	64	36	13			46				2							1	29		3	5			1		Mi	diatom rich silty clay
U1356	1	3	19	3	0	45	55	4			35				3							1	50	1	1	2			3		Ma	clay rich diatom ooze
U1356	1	3	42	3	0	100	0	40	15		15	3		15	5														7		Mi	sand
U1356	1	3	90	4	0	35	65	2	1		30											1	50	1	3	10			2		Ma	clay rich diatom ooze
U1356	1	3	123	4	0	65	35	5			55				2								30		2	3			3		Ma	diatom rich silty clay
U1356	2	1	95	10		45	55	10	5		30												45		10						Ma	clayrich diatom ooze
U1356	2	3	70	13		51	49	8	1	1	40												44		5						Ma	diatom -rich clay
U1356	2	4	39	14		49	51	15	1		30	1			Tr	2						1	45		5						Ma	clay-rich diatom ooze
U1356	2	5	120	17	1	59	40	5	2	1	50	Tr			1							1	35	Tr	3					1	Ma	diatom-rich clay
U1356	2	6	132	18	1	48	51	10	2		45	1		1	1							1	30		10				Tr	1	Ma	diatom-rich clay
U1356	2	7	41	19				68	25			2		2								1	1		1						Ma	silty sand
U1356	3	1	20	19		75	25	10			62				3								25								D	diatom rich silty clay
U1356	4	CC	9	28		30	70	15	2		10				2	1				15			50		5						Ma	silt bearing nanofossil-diatom ooze
U1356	4	CC	11	28		24	76	10	2		15				2					15		1	50		5						Ma	silt bearing nanofossil-diatom ooze
U1356	6	CC	3	47		70	30	15	5		45				4	1				3			25		2						Ma	diatomrich siltyclay
U1356	7	CC	5	57		100	0	2									98														D	calcareous cement rock
U1356	8	CC	1	67		98	2								3		95						1		1						Mi	calcareous cement rock
U1356	9	CC	2	76		57	43	10	3		38				5	1							40		3						Ma	diatomrich siltyclay
U1356	10	CC	2	86				20			29	1			10	1		1					25		3						Mi	diatom rich siltyclay
U1356	10	CC	2	86		59	41	14	2		40				3								40		1						D	diatom rich siltyclay
U1356	11	1	10	96		52	48	25			20				7								45		3						Ma	diatom rich silty clay
U1356	11	1	86	96		53	47	15	1		35				2								44		3						Ma	diatom rich silty clay
U1356	11	2	126	98		59	41	25		1	25				7	1							40		1						Ma	diatom rich silty clay
U1356	12	1	70	106	1	82	17	10	3		64				5								15		2					1	Ma	diatom-bearing siltyclay
U1356	12	3	8	108	1	78	21	15	3		56	2			3								20		1					1	Ma	diatom-bearing siltyclay
U1356	12	3	64	109		60	40	18	1		36	1			3	1							35		5						Ma	diatom rich siltyclay
U1356	13	1	59	115	5	51	44	15	3		28				3							1	40		3				2	5	Ma	diatom rich silty clay
U1356	13	2	10	116	3	53	44	15	2		30		1		5								34		10					3	Ma	diatom rich silty clay
U1356	13	2	93	117	5	59	36	8	1		44		2		3							1	30		5				1	5	Ma	diatom rich silty clay
U1356	14	1	73	125	5	24	71	12			12												41		30					5	Ma	clay bearing diatom ooze

Samples					Texture			Mineral											Biogenic										Rock		Lithology	
Site	Core	Section	Depth in section (cm)	Depth (m)	% Volcanic sediments	% Terrigenous sediments	% Biogenic sediments	Quartz	Feldspar	Micas	Clay	Glauconite	Ferromagnesian minerals	Dense minerals	Pyrite	Opaque minerals	Carbonate	Micrite	Foraminifers	Nannofossils	Calcareous sponge spicules	Radiolarians	Diatoms	Silicoflagellates	Spicules	Siliceous debris	Dinoflagellates	Fish remains	Rock fragments	Volcanic glass	Lithology abundance	Lithology name
U1356	14	1	90	125	5	62	33	47	10		5												23		10					5	Mi	diatom bearing sandy silt
U1356	14	2	50	126	1	33	66	11	6		16												60		6					1	Ma	clay bearing diatom ooze
U1356	14	2	124	127	5	32	63	10	5		17												53		10					5	Ma	clay bearing diatom ooze
U1356	14	3	27	127	1	37	62	6			31												56		6					1	Ma	clay bearing diatom ooze
U1356	14	4	70	129	5	28	67	5	2		21												62		5					5	Ma	clay bearing diatom ooze
U1356	14	4	95	130	1	43	56	22	8		13												47		9					1	Ma	clay bearing diatom ooze
U1356	14	5	50	130	1	33	66	6	3		24												60		6					1	Ma	clay bearing diatom ooze
U1356	15	1	20	134	3	53	44	29	5		14				5								39		5					3	Ma	diatom rich silty clay
U1356	15	1	99	135	5	42	53	10	5		22				5							1	42		10					5	Ma	clay bearing diatom ooze
U1356	15	2	44	136	5	33	62	10	5		15				3							1	55	1	5					5	Ma	clay bearing diatom ooze
U1356	15	4	7	139	5	38	57	10	5		20				3							1	51		5					5	Ma	clay bearing diatom ooze
U1356	15	4	134	140	5	53	42	5	2		36				10							1	36		5					5	Ma	diatom rich silty clay
U1356	15	6	30	141	6	27	67	2	1		22				2							1	60		6					6	Ma	clay bearing diatom ooze
U1356	15	6	36	141	5	55	40	15	5		32				3						1	2	32		5					5	Ma	diatom rich silty clay
U1356	15	6	37	141	3	29	68	5	2		20				2						2	1	60		5					3	Ma	clay bearing diatom ooze
U1356	17	1	107	154	3	57	40	10	2		35				10						1	1	35		3					3	Ma	diatom rich silty clay
U1356	17	1	109	154	5	36	59	5	2		15				14						1	1	55		2					5	Mi	clay rich diatom ooze
U1356	17	2	57	155	2	39	59	2	2		25				10						1	1	55		2					2	Ma	clay rich diatom ooze
U1356	17	3	110	157	5	52	43	10	5		27				10								40		3					5	Ma	diatom rich silty clay
U1356	17	4	34	158	3	60	37	5	2		42				11							1	32	1	3					3	Ma	diatom rich silty clay
U1356	18	1	7	163	5	49	46	5	2		31				11							1	42		3					5	Ma	diatom rich silty clay
U1356	18	1	76	163	3	53	44	5	2		41				5							1	41		2					3	Ma	diatom rich silty clay
U1356	18	2	80	165	5	50	45	5	3		31				11						1		42		2					5	Ma	diatom rich silty clay
U1356	19	2	57	174	3	52	45	10	3		34				5						1	1	40		3					3	Ma	diatom rich silty clay
U1356	19	3	56	176	3	53	44	5	3		37				8						1	1	37		5					3	Ma	diatom rich silty clay
U1356	20	1	51	182		48	52	15			30				2	1							50		2						Ma	silty clay rich diatom ooze
U1356	20	1	53	182		55	45	20			28				6	1					1	1	40		3						Mi	diatom rich siltyclay
U1356	20	2	25	183		55	45	20			30				5							1	40	1	3						Ma	diatom rich siltyclay
U1356	20	2	73	184	2	83	15	70	3		5	2			1	2							14		1					2	Mi	diatom bearing silt
U1356	20	2	74	184	1	66	33	20	2		40				3	1					1	1	30		1						Ma	diatom rich siltyclay
U1356	21	1	106	192		77	23	15	2	1	55				3	1							20		2	1					D	diatom bearing silty clay
U1356	21	1	112	192	2	72	26	29	3		30					3					1		25							2	Ma	diatom rich siltyclay
U1356	21	1	112	192	1	55	44	15			32				7	1						1	40		3						Mi	diatom rich siltyclay
U1356	21	2	28	193		58	42	20	1		30				4	3							40		2						D	diatom rich siltyclay
U1356	21	2	76	194		67	33	45	1		17				3	1							30		3						Ma	diatom rich clayey silt

Samples					Texture			Mineral										Biogenic										Rock		Lithology	
Site	Core	Section	Depth in section (cm)	Depth (m)	% Volcanic sediments	% Terrigenous sediments	% Biogenic sediments	Quartz	Feldspar	Micas	Clay	Glauconite	Ferromagnesian minerals	Dense minerals	Pyrite	Opaque minerals	Carbonate	Micrite	Foraminifers	Nannofossils	Calcareous sponge spicules	Radiolarians	Diatoms	Silicoflagellates	Spicules	Siliceous debris	Dinoflagellates	Fish remains	Rock fragments	Volcanic glass	Lithology abundance	Lithology name
U1356	22	1	31	201		56	54	10	5	1	35				5	2							35		7						Ma	diatom-rich silty clay
U1356	22	1	55	201		49	51	10	2		35	1			1								50		1						Ma	dlay-rich diatom ooze
U1356	22	1	75	202		69	31	20			45	1			3								30		1						Ma	diatom-rich silty clay
U1356	22	1	81	202		62	38	25		2	32				2	1							35		3						Ma	diatom-rich silty clay
U1356	22	2	114	204	2	57	41	8	2	2	40				5							1	38		2					2	Ma	diatom-rich silty clay
U1356	23	1	81	211		67	33	20	4	2	35			Tr	6	1							30		3						D	diatom-rich silty clay
U1356	23	1	122	212		63	37	15	3	2	40				3								35		2						D	diatom rich clay
U1356	24	1	103	221	1	75	24	5	5		60				1								12		4				1		Ma	diatom silty clay
U1356	24	2	26	222	1	80	19	5	5		65				1								10		3						Ma	diatom silty clay
U1356	25	1	10	230	3	40	57	10	3		21				3								52		5				3	3	Ma	clay bearing diatom ooze
U1356	26	1	35	240	1	92	7	1	1		70				3		14						4		3				3	1	Ma	clay
U1356	26	CC	8	240	3	56	41	5	2		41				3							1	36	1	3				5	3	Ma	diatom rich silty clay
U1356	27	CC	9	249	3	68	29	6	6		50				2								24	1	4				4	3	Ma	diatom bearing silty clay
U1356	28	CC	10	259	3	68	29	6	6		50				3						1		24	1	3				3	3	Ma	diatom bearing silty clay
U1356	29	CC	6	268	3	68	29	4	4		53				3						1	1	24		3				4	3	Ma	diatom bearing silty clay
U1356	30	1	45	278	5	70	25	2	2		62				1							1	21		3				3	5	Ma	diatom bearing silty clay
U1356	30	2	48	279	4	66	30	5	4		52				1					3		1	23		3				4	4	Ma	diatom bearing silty clay
U1356	30	2	140	280	0	69	31	5	4		55				1					5		1	22		3				4		Ma	diatom bearing silty clay
U1356	30	6	19	285	2	70	28	4	2		60				1							1	22		5				3	2	Ma	diatom bearing silty clay
U1356	33	1	32	307	2	74	24	3	2		65				1							1	20		3				3	2	Ma	diatom bearing silty clay
U1356	33	CC	9	307	5	38	57	10	3		20				3							2	50		5				2	5	Mi	clay bearing diatom ooze
U1356	34	1	72	317	5	71	24	10	2		55				1							1	20		3				3	5	Ma	diatom bearing silty clay
U1356	34	1	124	317	3	62	35	10	3		39				8							2	30		3				2	3	Mi	diatom rich silty clay
U1356	34	2	70	318	3	73	24	5	3		55				5							1	20		3				5	3	Ma	diatom bearing silty clay
U1356	35	1	75	326		75	25	20		3	48				3	1							15		10						D	diatom bearing silty clay
U1356	35	1	97	326		49	51	8	1	2					3	1	34					1	35		15						Mi	diatom ooze
U1356	35	2	44	327		71	29	7	2	1	55				5	1							25		3	1					D	diatom rich clay
U1356	35	2	140	328		78	22	10		5	60				2								18	1	3						D	diatom bearing clay
U1356	35	3	81	329		78	22	10	3	1	60	1			3								20		2						D	diatom bearing clay
U1356	35	3	84	329		77	23	20	3	1	48	1			4								20		3						Mi	diatom bearing silty clay
U1356	35	4	100	331		91	9	5			79				7								8		1						D	clay
U1356	37	CC	5	345		82	18	10	2	5	56	1			5	2							15		3				1		Mi	diatom bearing silty clay
U1356	39	1	79	364		100	0	2	3		95																				Ma	clay
U1356	39	1	81	364		100	0	70	3	2	20	1			4																Mi	silt
U1356	39	1	120	365		99	1	2	1	1	90				3	2									1						Ma	clay

Samples					Texture			Mineral											Biogenic											Rock		Lithology	
Site	Core	Section	Depth in section (cm)	Depth (m)	% Volcanic sediments	% Terrigenous sediments	% Biogenic sediments	Quartz	Feldspar	Micas	Clay	Glauconite	Ferromagnesian minerals	Dense minerals	Pyrite	Opaque minerals	Carbonate	Micrite	Foraminifers	Nannofossils	Calcareous sponge spicules	Radiolarians	Diatoms	Silicoflagellates	Spicules	Siliceous debris	Dinoflagellates	Fish remains	Rock fragments	Volcanic glass	Lithology abundance	Lithology name
U1356	40	1	34	374	1	99		15	8	1	72				3															1	D	silty clay
U1356	40	2	42	375		100	0	3	3		86	1			6	1															D	clay
U1356	41	1	25	383		70	30	40	1	1	25				2							1	25	1	2	1					D	diatom rich silty clay
U1356	41	1	56	383		99	1										99				1										Mi	calcareous
U1356	41	2	80	385		100	0	20			40				2	2		1											35		Mi	sandy clay
U1356	41	2	85	385	2	97	1	10	56	2	30				5	2									1						Mi	silty clay
U1356	42	1	15	393	0	100	0	17	5		78																				Ma	clay
U1356	42	2	34	394	0	100	0	15	5		75																		5		Ma	clay
U1356	43	1	116	403	2	92	6	5	5		75				2					5			1						5	2	Ma	clay
U1356	43	2	38	404	0	100	0	3	3		89																		5		Ma	clay
U1356	44	1	37	412	3	97	0	5	5		82				2														3	3	Ma	clay
U1356	45	1	43	422	1	99	0	7	5		84				1														2	1	Ma	clay
U1356	46	1	95	432	1	99	0	3	2		80				13														1	1	Ma	clay
U1356	46	2	35	433	1	99	0	70	10		13	1			5															1	Mi	silt
U1356	47	1	54	441	1	99	0	5	3		86				3														2	1	Ma	clay
U1356	47	2	61	442	2	58	40	2	2		44				8					40									2	2	Ma	nannofossil rich clay
U1356	47	2	90	443	1	99	0	70	10		15				3														1	1	Mi	silt
U1356	47	2	94	443	2	98	0	1	1		85				10														1	2	Ma	clay
U1356	47	3	69	444	3	29	68	2	2		20				5					68										3	Ma	clay bearing nannofossil ooze
U1356	47	4	36	445	1	25	74	3	3		15				3					74									1	1	Ma	clay bearing nannofossil ooze
U1356	47	4	44	445	1	15	84	1	1		10				3					84										1	Ma	clay bearing nannofossil ooze
U1356	47	4	98	446	3	19	78	2	2		10				5					78										3	Ma	clay bearing nannofossil ooze
U1356	48	1	6	450	2	73	25	15	10	1	49				3	2				25									3	2	D	nannofossile silty clay
U1356	48	1	9	450	1	64	35	1	2	1	45				15					35										1	Mi	nannofossil rich clay
U1356	48	2	90	452	1	99	0	4	2	1	88				4															1	D	clay
U1356	48	2	97	452	0	100	0	10	15		5				70																Mi	pyrite
U1356	48	3	24	453	1	99	0	10	5		74	1			3	3													3	1	D	silty clay
U1356	48	CC	18	454	2	97	1	3	15	2	72					5										1				2	Mi	silty clay
U1356	49	1	13	460	2	98	0	5	10	2	70				7		2												2	2	Ma	silty clay
U1356	49	CC	3	460	3	97	0	15	20	3	47	2			7														2	3	Ma	clayey silt
U1356	49	CC	4	460	5	95	0	30	15	4	35				3	3													5	5	Mi	clayey silt
U1356	50	1	49	469	2	94	4	25	10	1	47	1			2		5												2	2	D	clayey silt
U1356	51	1	64	479	3	94	3	5	12	2	60	3			8														3	3	D	silty clay
U1356	51	1	121	480	2	98	0	7	5	1	80	1			1	2													1	2	Mi	clay
U1356	51	1	128	480	3	97	0	7	10	2	66				6	2													3	3	D	silty clay

Samples					Texture			Mineral										Biogenic										Rock		Lithology	
Site	Core	Section	Depth in section (cm)	Depth (m)	% Volcanic sediments	% Terrigenous sediments	% Biogenic sediments	Quartz	Feldspar	Micas	Clay	Glauconite	Ferromagnesian minerals	Dense minerals	Pyrite	Opaque minerals	Carbonate	Micrite	Foraminifers	Nannofossils	Calcareous sponge spicules	Radiolarians	Diatoms	Silicoflagellates	Spicules	Siliceous debris	Dinoflagellates	Fish remains	Rock fragments	Volcanic glass	Lithology abundance	Lithology name
U1356	51	2	34	480	0	70	30	5	3	3	10	2			2		38														Ma	nannofossil rich claystone
U1356	51	2	41	481	2	97	1	20	10	2	57				3	3	1												1		D	silty clay
U1356	53	1	54	498	2	95	3	4	8	4	70					1	2			3									1	2	D	silty clay
U1356	53	2	7	499	3	97	0	20	7	3	59	1																		3	Mi	silty clay
U1356	53	2	87	500	4	96	0	15	7	2	60					2													5	4	Ma	silty clay
U1356	54	1	48	508	6	93	1	11			79				2		1			1										6	Ma	silty claystone
U1356	54	1	64	508	0	99	1	24	5		68				2								1								Ma	silty claystone
U1356	54	1	89	508	2	92	6	22			63				2		5			5			1							2	Ma	silty claystone
U1356	54	2	82	510	6	90	4	17			67				1	2	3			3			1							6	Ma	silty claystone
U1356	55	1	6	517	1	99	0	1	2		8				2		86													1	Ma	limestone
U1356	55	1	86	518	5	93	2	15	10		55		1		10					2									2	5	Ma	silty claystone
U1356	55	2	4	518	3	96	1	10	3		71				10					1									2	3	Ma	silty claystone
U1356	56	1	5	527	2	98	0	35	25		15	2	5		10														6	2	Ma	sandy silt
U1356	57	1	24	536	5	93	2	30	20		22	1	3		12					2									5	5	Ma	sandy silt
U1356	57	1	50	536	3	92	5	7	3		60				10		10			5									2	3	Ma	silty clay
U1356	57	2	4	537	2	88	10	3	3		55				10		15			10									2	2	Ma	carbonate bearing clay
U1356	58	1	47	546	3	91	6	10	7		58		1		7		5			5			1						3	3	Ma	silty clay
U1356	59	1	9	555	2	96	2	10	5	1	72			3	4		1			2										2	D	silty clay
U1356	59	1	66	556	2	98	0	7	3	3	78			1	5														1	2	Ma	clay
U1356	59	1	90	556	3	96	1	35	20	2	25	1		3	5		3			2										4	Ma	sandy silt
U1356	59	CC	12	557	3	96	1	25	8	7	48				3		2			1									3	3	D	clayey silt
U1356	60	1	32	565	1	97	2	5	5		77	1			5		3			2										1	D	clay
U1356	60	1	76	565	1	99	0	15	2		70	2			7		3			Tr										1	D	silty clay
U1356	60	2	26	566	0	100	0	Tr									100														D	limestone
U1356	62	CC	29	584	0	100	0	2			8						90														Ma	limestone
U1356	63	1	17	594	3	95	2	25	15	2	38	1		3	7		4			2									5	3	Ma	sandy silt
U1356	63	1	108	594		100		3	5	1	78				7		1												5		Ma	clay
U1356	63	1	120	595	1	99		50	10	2	28	1	1		5	1													1	1	Mi	silty clay
U1356	63	3	26	596		98	2	2	1	1					3	1	90														D	limestone
U1356	63	3	110	597	1	99		35	5	1	5				Tr	2	51													1	Mi	limestone
U1356	63	4	40	598	2	90	8	1		Tr	35			1	3		50			8										2	Ma	limestone
U1356	64	1	100	604	0	100	0	20	7		57		3		5														8		Ma	silty clay
U1356	64	2	43	605	0	100	0	55	15		20				3														7		Ma	silt
U1356	64	2	129	606	0	65	35	2	2		10	2			5		43			35									1		Ma	nannofossil rich limestone
U1356	64	3	24	606	0	100	0	15	10		67	1	2		2														3		Ma	silty clay

Samples					Texture			Mineral											Biogenic											Rock		Lithology	
Site	Core	Section	Depth in section (cm)	Depth (m)	% Volcanic sediments	% Terrigenous sediments	% Biogenic sediments	Quartz	Feldspar	Micas	Clay	Glauconite	Ferromagnesian minerals	Dense minerals	Pyrite	Opaque minerals	Carbonate	Micrite	Foraminifers	Nannofossils	Calcareous sponge spicules	Radiolarians	Diatoms	Silicoflagellates	Spicules	Siliceous debris	Dinoflagellates	Fish remains	Rock fragments	Volcanic glass	Lithology abundance	Lithology name
U1356	66	1	68	623	0	100	0	5	4		77		1		13																Ma	clay
U1356	67	1	43	632	3	82	15	15	8		36	1	2		10		8			15									2	3	Ma	nannofossil bearing silty clay
U1356	67	1	100	633	5	95	0	10	5		80																			5	Ma	slightly silty clay
U1356	67	1	109	633	6	94	0	6	2		84																		2	6	Ma	clay
U1356	67	2	4	633	3	97	0	10	7		60		2		10														8	3	Ma	silty clay
U1356	67	CC	13	634	5	80	15	10	7		40	1	2		10		7			15									3	5	Ma	nannofossil bearing silty clay
U1356	68	1	16	642	Tr	99	1	4	3		60	2			2	1	27			1										Tr	D	carbonate rich calystone
U1356	68	2	17	643		100	Tr	2	3	Tr	87			1	2		Tr			Tr									5		Ma	clay
U1356	68	2	20	643	0	100	0	79	8		1			3	4		Tr												5		Mi	silt
U1356	68	2	37	644		100	Tr	1	5	Tr	75	1			2		1			Tr									15		D	silty clay
U1356	68	4	43	646	2	98	Tr	5	7	Tr	77	1			6		Tr			Tr									2	2	D	clay
U1356	68	5	57	648	2	98	0	12	3		77	1			3		Tr												2	2	D	clay
U1356	68	6	53	648	3	97	0	10	1	1	78	Tr			7		Tr													3	D	clay
U1356	69	1	78	652	1	99	0	2	1		93				3		Tr													1	D	clay
U1356	69	1	105	652	0	100	0	1	5		92				2		Tr														D	clay
U1356	69	3	15	654	Tr	100	0	1	1		96	Tr			2		Tr													Tr	D	clay
U1356	69	4	76	656	Tr	100	Tr	1	Tr	Tr	94	Tr			5		Tr													Tr	Ma	clay
U1356	69	4	79	656	1	99	0	55	1		34	2			7		Tr													1	Mi	clayey silt
U1356	69	6	15	658	0	93	7	3	1		50			1			37			7									1		D	calcareous clay
U1356	70	1	19	661	Tr	99	1	1	Tr		93			1	2		2			1									1	Tr	D	clay
U1356	70	1	22	661	0	92	8	3	Tr		57			1	1		30			8									1		D	calcareous rich clay
U1356	70	2	65	663	Tr	100	Tr	75	15		5	2		1	2					Tr											Mi	silt
U1356	70	3	44	664	Tr	100	Tr	1	Tr		97				2		Tr			Tr										Tr	Ma	clay
U1356	71	1	32	671	1	99	0	2	1	Tr	92	Tr			4		Tr													1	D	clay
U1356	71	1	76	671	1	97	2	4	2		50	Tr			1		40													1	D	calcareous rich clay
U1356	71	1	86	671	1	99	0	10	3	1	82	Tr			2		1													1	D	clay
U1356	71	2	75	672	1	94	5				50				3		40			5									1	1	Ma	calcareous rech clay
U1356	71	2	76	672	3	92	5	15	5	1	64			2			5			5										3	Mi	silty clay
U1356	71	6	30	677	0	99	1	1	1	Tr	61				1		35			1											D	calcareous rech clay
U1356	72	1	44	681	3	91	6	11		2	71				1					6									6	3	Ma	clay/claystone
U1356	72	1	79	681	0	99	1	24	3		60				2			5		1									5		Ma	silty claystone
U1356	72	2	17	683	2	97	1	34	3		50				3			1		1									6	2	Ma	silty claystone
U1356	72	2	128	683	5	74	21	16			52				1					21									5	5	Ma	silty claystone
U1356	72	4	64	684	0	99	1	16			66				2			5		1									10		Ma	silty claystone
U1356	72	5	125	687	2	95	3	16	2		64				2					3									11	2	Ma	silty claystone

Samples					Texture			Mineral											Biogenic											Rock		Lithology	
Site	Core	Section	Depth in section (cm)	Depth (m)	% Volcanic sediments	% Terrigenous sediments	% Biogenic sediments	Quartz	Feldspar	Micas	Clay	Glauconite	Ferromagnesian minerals	Dense minerals	Pyrite	Opaque minerals	Carbonate	Micrite	Foraminifers	Nannofossils	Calcareous sponge spicules	Radiolarians	Diatoms	Silicoflagellates	Spicules	Siliceous debris	Dinoflagellates	Fish remains	Rock fragments	Volcanic glass	Lithology abundance	Lithology name
U1356	72	6	79	688	2	73	25	2			70				1					25										2	Ma	clay/claystone
U1356	73	1	95	690	0	100	0	2			90				2			6												Ma	clay/claystone
U1356	73	2	34	690				2			90				2			6												Ma	clay/claystone
U1356	73	3	112	691	2	62	36	5	2		30							20		36									5	2	Ma	marlstone
U1356	73	4	74	693	2	98	0	17	2		56				1			17											5	2	Ma	clay/claystone
U1356	73	4	85	694	0	77	23	12			58				1	v		6		23											Ma	clay/claystone
U1356	75	1	39	695	0	88	12	22			56				2			5		12			1						2		Ma	clay/claystone
U1356	75	2	32	709	2	93	5	15	7		42		2		12		10			5									5	2	Ma	silty clay
U1356	75	3	94	710	5	87	8	10	7		48	1	1		12		5			8									3	5	Ma	silty clay
U1356	76	1	45	712	5	93	2	25	7		37	2	3		13		1			2									5	5	Ma	silty clay
U1356	76	1	90	719	3	95	2	10	3		63	1	2		10		1			2									5	3	Ma	silty clay
U1356	76	2	60	719	3	97	0	10	5		70	1	2		6														3	3	Ma	silty clay
U1356	76	3	90	720	3	96	1	10	5		58	1	3		8		1			1									10	3	Ma	silty clay
U1356	76	4	15	722	3	96	1	10	6		53	1	2		8		1			1									15	3	Ma	silty clay
U1356	76	4	79	722	1	89	10	5	2		35		2		3		35			10									7	1	Ma	calcareous rich silty clay
U1356	76	5	89	723	1	94	5	7	3		58	1	2		8		5			5									10	1	Ma	silty clay
U1356	76	6	23	724	1	99	1	7	3		42		2		40														5	1	Mi	pyrite rich silty clay
U1356	77	1	17	725	3	97	0	15	5		52	2	3		10														10	3	Ma	silty clay
U1356	78	1	44	728	1	97	2	2	1		91			1	2					2											D	clay
U1356	78	1	81	738	0	100	0	Tr			96			Tr	4		Tr			Tr											D	clay
U1356	78	1	104	738	0	90	10	10			55			1	4		30			10											D	nannofossil-bearing carbonate-rich clay
U1356	78	3	59	738	0	85	15	6		Tr	48				1		30			15											D	nannofossil-bearing carbonate-rich clay
U1356	78	3	61	741	1	99	0	5	Tr		90	Tr		1	4															1	Mi	clay
U1356	78	3	72	741	3	97	0	4	1		91				1															3	Ma	clay
U1356	78	3	73	741	Tr	100	0	1			97				2															Tr	Ma	clay
U1356	78	3	55	741	0	100	0	5	2		92				1																Mi	clay
U1356	78	4	55	742	0	96	4				73				8		15			4											Mi	calcareous bearing clay
U1356	79	1	16	742	1	96	3	4	1	1	50				2		38			3										1	Ma	calcareous-rich clay
U1356	79	1	116	747	0	95	5	Tr			65				Tr		30			5											D	calcareous-rich clay
U1356	79	2	1	748	0	100	Tr	1	Tr		97				2		Tr			Tr											D	clay
U1356	79	2	90	748	3	85	12	2			50				1		32			12										3	D	calcareous-rich clay
U1356	79	3	41	749	2	97	1	5	2		45	Tr			3		43			1										2	D	calcareous-rich clay
U1356	79	4	93	750	Tr	98	2	4	Tr		72				2		20			2										Tr	D	calcareous -bearing clay
U1356	79	5	35	752	Tr	100	Tr	2			97			Tr	1		Tr			Tr										Tr	D	clay
U1356	79	CC	5	753	2	93	5	5	2		65				1		20			5										2	D	calcareous -bearing clay

Samples					Texture			Mineral										Biogenic										Rock		Lithology	
Site	Core	Section	Depth in section (cm)	Depth (m)	% Volcanic sediments	% Terrigenous sediments	% Biogenic sediments	Quartz	Feldspar	Micas	Clay	Glauconite	Ferromagnesian minerals	Dense minerals	Pyrite	Opaque minerals	Carbonate	Micrite	Foraminifers	Nannofossils	Calcareous sponge spicules	Radiolarians	Diatoms	Silicoflagellates	Spicules	Siliceous debris	Dinoflagellates	Fish remains	Rock fragments	Volcanic glass	Lithology abundance	Lithology name
U1356	82	1	51	755	0	98	2	2	Tr		75				1		20			2											D	calcareous -bearing clay
U1356	82	1	101	776	2	98	0	66	1		20				2			5											4	2	Mi	siltstone
U1356	82	1	117	777	0	100	0	13			64				2			19											2		Ma	clay/claystone
U1356	82	2	98	777	2	98	0	75	3		12				2			3											3	2	Mi	siltstone
U1356	82	3	112	778	3	97	0	6			23				57			11												3	Mi	siltstone
U1356	82	4	89	780	0	99	1	11			70	1						17		1											Ma	silty claystone
U1356	82	5	55	781	0	73	27	11			48				1			11		27									2		Ma	silty claystone
U1356	82	6	44	782	2	98	0	13			78				1			6												2	Ma	silty claystone
U1356	83	1	32	783	2	97	1	27			45				1	2		22					1							2	Ma	silty claystone
U1356	84	1	30	786	0	100	0	7	5		43				30														15		Ma	pyrite rich clay
U1356	84	2	55	795	3	97	0	5	5		75		2		5														5	3	Ma	clay
U1356	84	2	64	797	1	89	10	5	2		15		2		10		50			10									5	1	Ma	limestone
U1356	84	3	30	797	0	100	0	1	1		4		1		2		90												1		Ma	limestone
U1356	84	4	90	798	2	98	0	5	3		58		2		10														20	2	Ma	silty clay
U1356	84	5	137	800	0	99	1	20	10		38				20		1			1									10		Ma	pyrite rich clayey silt
U1356	84	6	82	802	0	100	0	1	1		5		1		1		90												1		Ma	limestone
U1356	85	1	65	803	0	100	0	3	1		2		1		2		90												1		Ma	limestone
U1356	85	1	93	805	2	98	0	10	5	4	74				2														1	2	D	silty clay
U1356	85	2	34	806	1	99	0	6	Tr		92				1															1	D	clay
U1356	85	2	35	806	0	100	0	11	3		85				2																Ma	clay
U1356	85	3	95	806	5	95	0	74	15	Tr					Tr														5	5	Mi	silt
U1356	85	3	98	808	Tr	93	7	2	1		69				8		13			7			Tr							Tr	Ma	calcareous-bearing clay
U1356	85	4	130	808	2	97	1	Tr	1		83				12		1			1			Tr							2	Mi	pyrite-bearing clay
U1356	86	1	27	810	1	98	1	15	5	Tr	70				4		4			1										1	D	silty clay
U1356	86	1	80	815	1	99	Tr	5	2		90	Tr			3		Tr													1	Ma	clay
U1356	86	1	146	815	2	98	0	8	15	1	73			1	Tr															2	Mi	silty clay
U1356	86	2	119	816	1	99	0	8	4		85				2																Ma	clay
U1356	86	3	69	817	2	98	Tr	10	8		75	1			3		Tr			Tr			Tr						1	2	Ma	silty clay
U1356	86	4	20	818	0	100	0				35						65														Mi	limestone
U1356	86	5	24	818	0	100	0	1	Tr		95	Tr			4		Tr														D	clay
U1356	86	5	91	820	1	99	0	6			91				2		Tr													1	D	clay
U1356	86	6	65	820	0	100	0	1			96				3		Tr														D	clay
U1356	86	6	67	821	Tr	100	0	2	Tr		91	Tr			7		Tr													Tr	Ma	clay
U1356	87	1	130	821	0	99	1	5	2	1	79	Tr			12								Tr		1						Mi	pyrite-bearing clay
U1356	87	2	50	825	1	99	Tr	1			97				1		Tr			Tr										1	Ma	clay

Samples					Texture			Mineral											Biogenic											Rock		Lithology	
Site	Core	Section	Depth in section (cm)	Depth (m)	% Volcanic sediments	% Terrigenous sediments	% Biogenic sediments	Quartz	Feldspar	Micas	Clay	Glauconite	Ferromagnesian minerals	Dense minerals	Pyrite	Opaque minerals	Carbonate	Micrite	Foraminifers	Nannofossils	Calcareous sponge spicules	Radiolarians	Diatoms	Silicoflagellates	Spicules	Siliceous debris	Dinoflagellates	Fish remains	Rock fragments	Volcanic glass	Lithology abundance	Lithology name
U1356	87	2	77	826	0	100	Tr		Tr		60				Tr		40			Tr											Mi	calcarious-rich clay
U1356	87	2	85	826	0	100	0			1	67			1			31			Tr											Mi	calcarious-rich clay
U1356	87	4	80	826	1	96	3	2	1		60				2		31			3										1	Mi	calcarious-rich clay
U1356	87	5	85	829	0	100	Tr	8	3		84			Tr	4		Tr			Tr									1		Ma	clay
U1356	87	6	60	830	2	98	Tr	7		Tr	86			2	2					Tr									1	2	Ma	clay
U1356	88	1	98	832	0	100	0	Tr			50						50														Mi	calcarious-rich clay
U1356	88	2	46	834	0	98	2	6			65				3			12		2									12		Ma	claystone
U1356	89	1	32	835	0	90	10	5			54				6			15		10									10		Ma	silty micritic claystone
U1356	89	1	81	843	0	99	1	16			62				1			10		1									10		Ma	claystone
U1356	89	2	27	844	0	100	0	23			58				2														17		Ma	sandy mudstone
U1356	89	2	85	845	0	99	1	22			66				2		2	1		1									6		Ma	silty claystone
U1356	89	2	101	845	0	100	0	26			59				1		2	2											10		Ma	silty claystone
U1356	91	1	13	862	0	100	0	10	3		67		1		8		1												10		Ma	silty clay
U1356	91	2	13	863	0	100	0	3	1		68		1		12														15		Ma	pyrite bearing silty clay
U1356	91	3	31	865	0	100	0	1			3		1		3		92														Ma	limestone
U1356	91	4	8	866	0	95	5	1			6		2		10		76			5											Ma	limestone
U1356	91	5	16	867	2	98	0	10	2		38		2		15		1												30	2	Ma	pyrite bearing clayey silt
U1356	91	5	66	867	0	98	2	20	7		37		3		15		1			2									15		Ma	pyrite bearing clayey silt
U1356	91	7	43	870	1	98	1	10	2		61		2		15		1			1									7	1	Ma	pyrite bearing silty clay
U1356	92	1	100	873	0	100	0	10	2		69		1		8														10		Ma	silty clay
U1356	92	1	115	873	0	100	0	2	1		5		1		3		87												1		Mi	limestone
U1356	92	3	18	874	2	98	0	10	3		68		2		10														5	2	Ma	pyrite bearing silty clay
U1356	93	1	60	877	3	96	1	7	2		63				20		1			1									3	3	Ma	pyrite rich silty clay
U1356	93	1	118	878	1	99	0	1			4				2		92													1	Ma	limestone
U1356	93	3	76	880	2	98	0	15	3		70				5		5													2	Ma	silty clay
U1356	93	cc	5	881	2	98	0	8	2		81				5		2													2	Ma	silty clay
U1356	94	1	91	882	1	99	Tr	2		Tr	91			Tr	4		Tr			Tr									2	1	Ma	clay
U1356	94	1	133	883	3	97	0	10	2		70				15		Tr													3	Mi	sandy mud
U1356	94	2	24	883	1	99	Tr	5	1		90				3		Tr			Tr										1	Ma	clay
U1356	94	2	85	884	Tr	100	0	1	2		97	Tr		Tr	Tr															Tr	Mi	clay
U1356	94	4	20	886	2	96	2	1	1		93				1					2										2	Mi	clay
U1356	94	4	30	886	2	91	7	2	Tr		55				2		30			7										2	Mi	calcareous-rich clay
U1356	95	1	64	892	2	98	0	1	2		95	Tr		Tr	Tr															2	Mi	clay
U1356	95	2	104	894	0	100	0	1			97				2		Tr														Ma	clay
U1356	95	2	125	894	Tr	97	3	1	2		91	Tr			3					3											Ma	sandy clay

Samples					Texture			Mineral											Biogenic											Rock		Lithology	
Site	Core	Section	Depth in section (cm)	Depth (m)	% Volcanic sediments	% Terrigenous sediments	% Biogenic sediments	Quartz	Feldspar	Micas	Clay	Glauconite	Ferromagnesian minerals	Dense minerals	Pyrite	Opaque minerals	Carbonate	Micrite	Foraminifers	Nannofossils	Calcareous sponge spicules	Radiolarians	Diatoms	Silicoflagellates	Spicules	Siliceous debris	Dinoflagellates	Fish remains	Rock fragments	Volcanic glass	Lithology abundance	Lithology name
U1356	95	4	12	895	0	100	0	2	1	3	79				15		Tr														Mi	pyrite-bearing clay
U1356	95	4	40	895	0	100	0	78	Tr		20	Tr			2																D	silty sand
U1356	95	CC	16	896	Tr	100	0	15	1	Tr	74			Tr	10		Tr													Tr	Ma	pyrite-bearing sandy clay
U1356	96	CC	4	901	0	100	0	20	10	3	45	2			20																Ma	sandy mud
U1356	96	CC	15	901	1	99	0	7	2	5	65	Tr			20															1	Mi	silty clay
U1356	97	1	30	911	2	98	0	15	2	1	58	2			20	Tr														2	D	sandy clay
U1356	97	1	60	911	Tr	100	Tr	15	5	1	54	Tr			25								Tr							Tr	D	pyrite-rich sandy clay
U1356	98	1	65	920	0	100	0	10	2	2	60		1		20														5		Ma	pyrite bearing silty clay
U1356	98	2	27	921	3	97	0	20	5	2	37		5		20														8	3	Ma	pyrite bearing sandy mud
U1356	98	3	69	923	0	100	0	15	2	2	73	1	2		5																Ma	clay
U1356	98	4	25	924	0	100	0	20	5	2	56	1	5		10														1		Ma	pyrite bearing silty clay
U1356	99	1	40	930	3	97	0	10	3		41		3		30														10	3	Ma	pyrite rich silty clay
U1356	99	1	124	931	2	98	0	8	2		40		3		40														5	2	Ma	pyrite rich silty clay
U1356	99	1	135	931	0	100	0	20	3	5	35		3		30														4		Ma	pyrite rich sandy mud
U1356	99	2	107	932	0	100	0	15	3	5	37		3		35														2		Ma	pyrite rich silty clay
U1356	99	3	31	932	0	100	0	80	1		10		2		5														2		Ma	silt
U1356	101	2	58	951	2	98	0	7	2	2	63		1		8														15	2	Ma	silty clay
U1356	103	2	63	970	0	100	0	5	2	3	70	1	3		15														1		Ma	pyrite bearing clay
U1356	103	3	70	972	0	100	0	5	1	2	60	1	5		25														1		Ma	pyrite rich clay
U1356	104	1	105	979	0	100	0	5	1	2	70		1		20														1		Ma	pyrite bearing clay
U1356	104	4	20	982	0	100	0	68	1		20	1	3		5														2		Mi	silt
U1356	105	1	109	988	0	100	0	1	4	1	82			Tr	12																D	clay
U1356	105	3	62	991	0	100	0	15	10		61	1			13																Mi	sandy mud
U1356	105	4	95	992	1	99	0	1	Tr	Tr	93	Tr		Tr	5															1	D	clay
U1356	105	6	80	995	0	100	Tr	10	4		69	2		Tr	15								Tr						Tr		Mi	pyrite-bearing silty clay
U1356	106	1	50	997	0	100	0	1	1	Tr	93	Tr		Tr	5																D	clay
U1356	106	2	70	999	0	100	0	5	2		88	Tr		2	3																D	clay