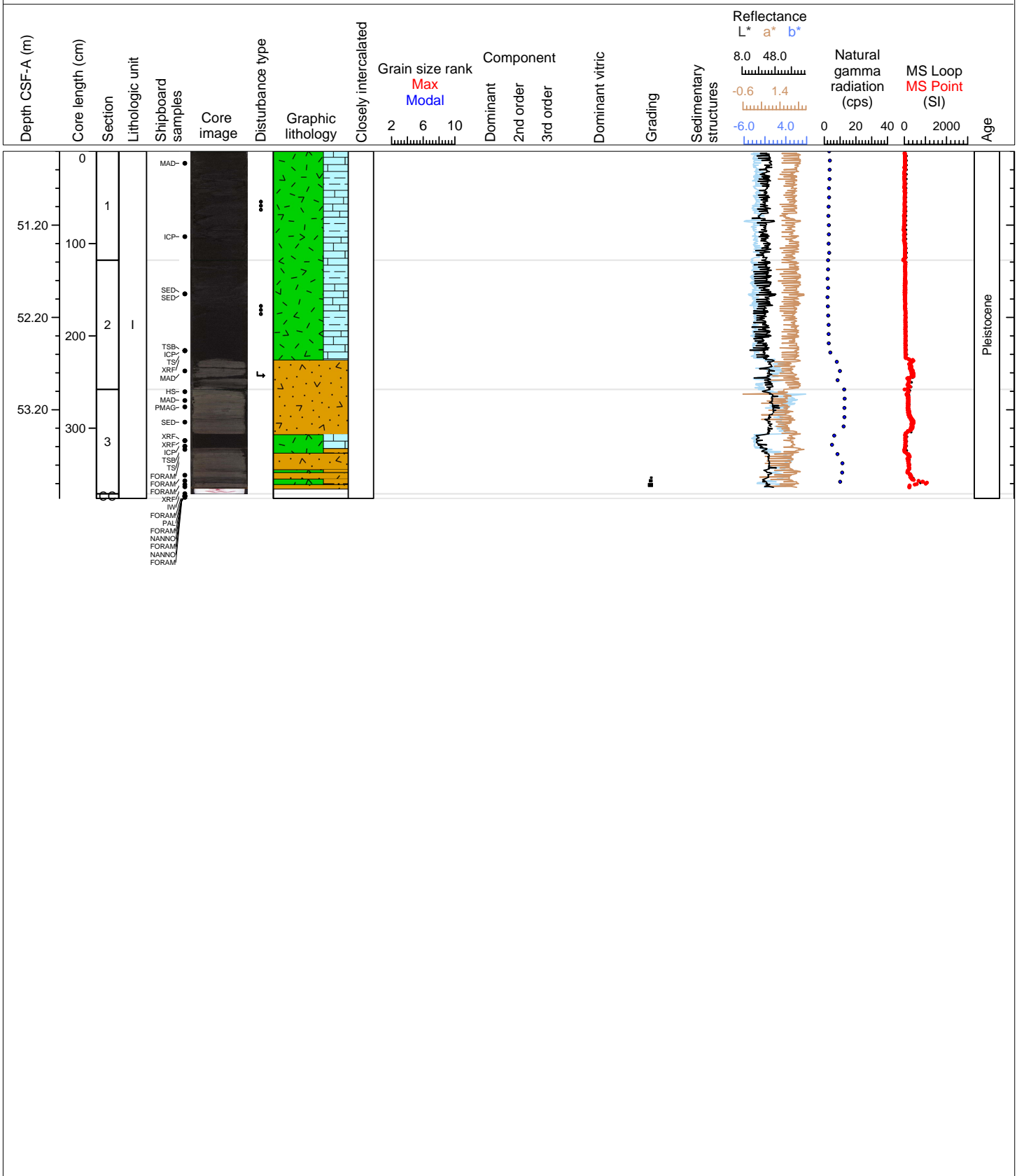
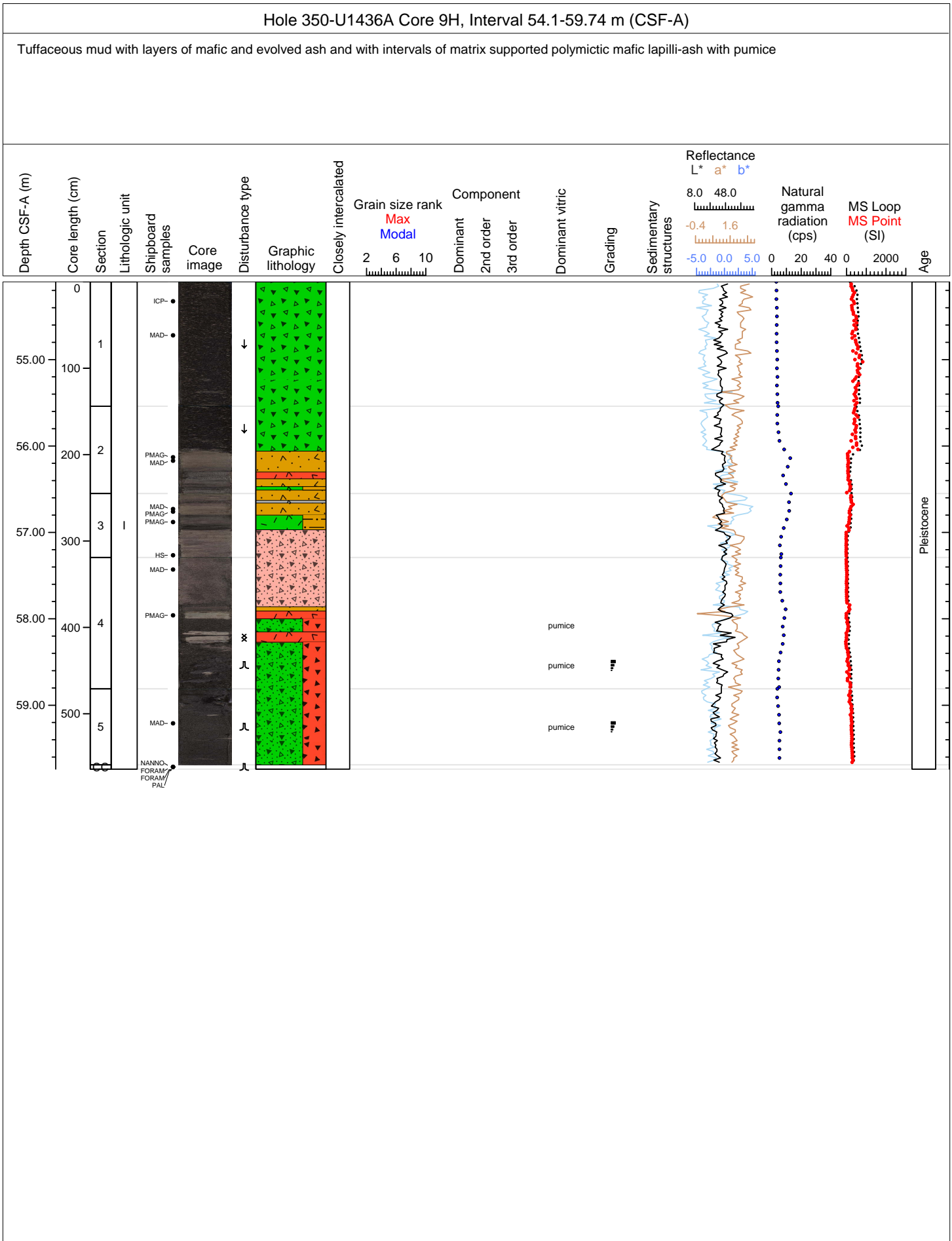


Hole 350-U1436A Core 8H, Interval 50.4-54.16 m (CSF-A)

Coarse basaltic ash with thin tuffaceous mud and ash layers

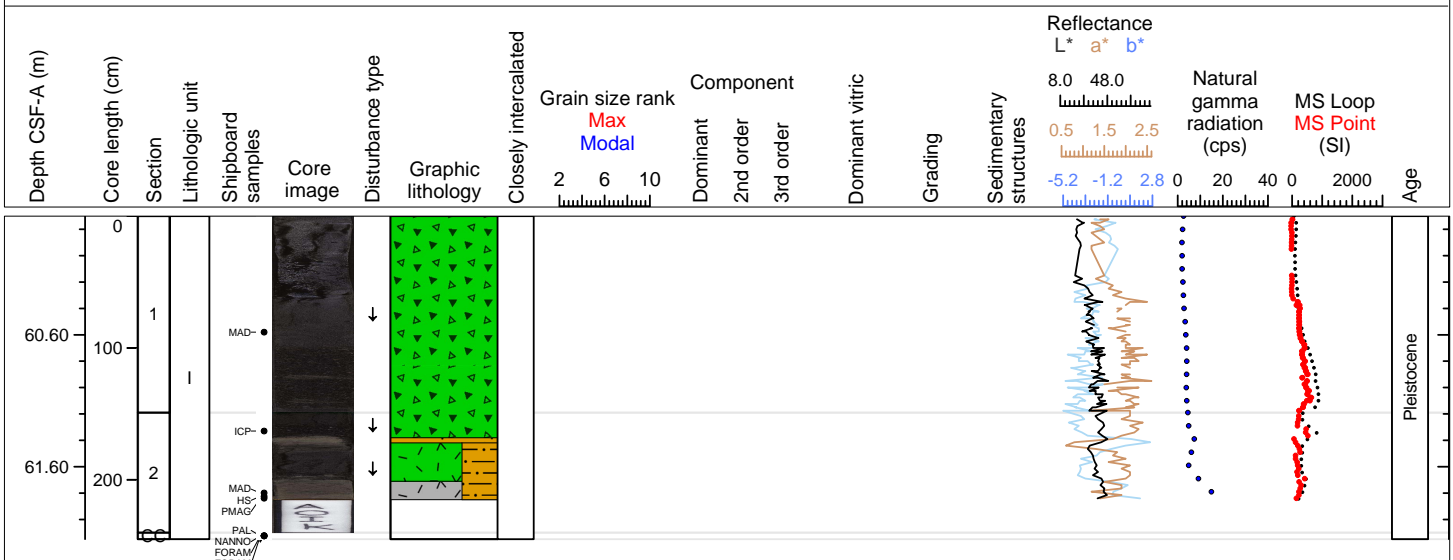






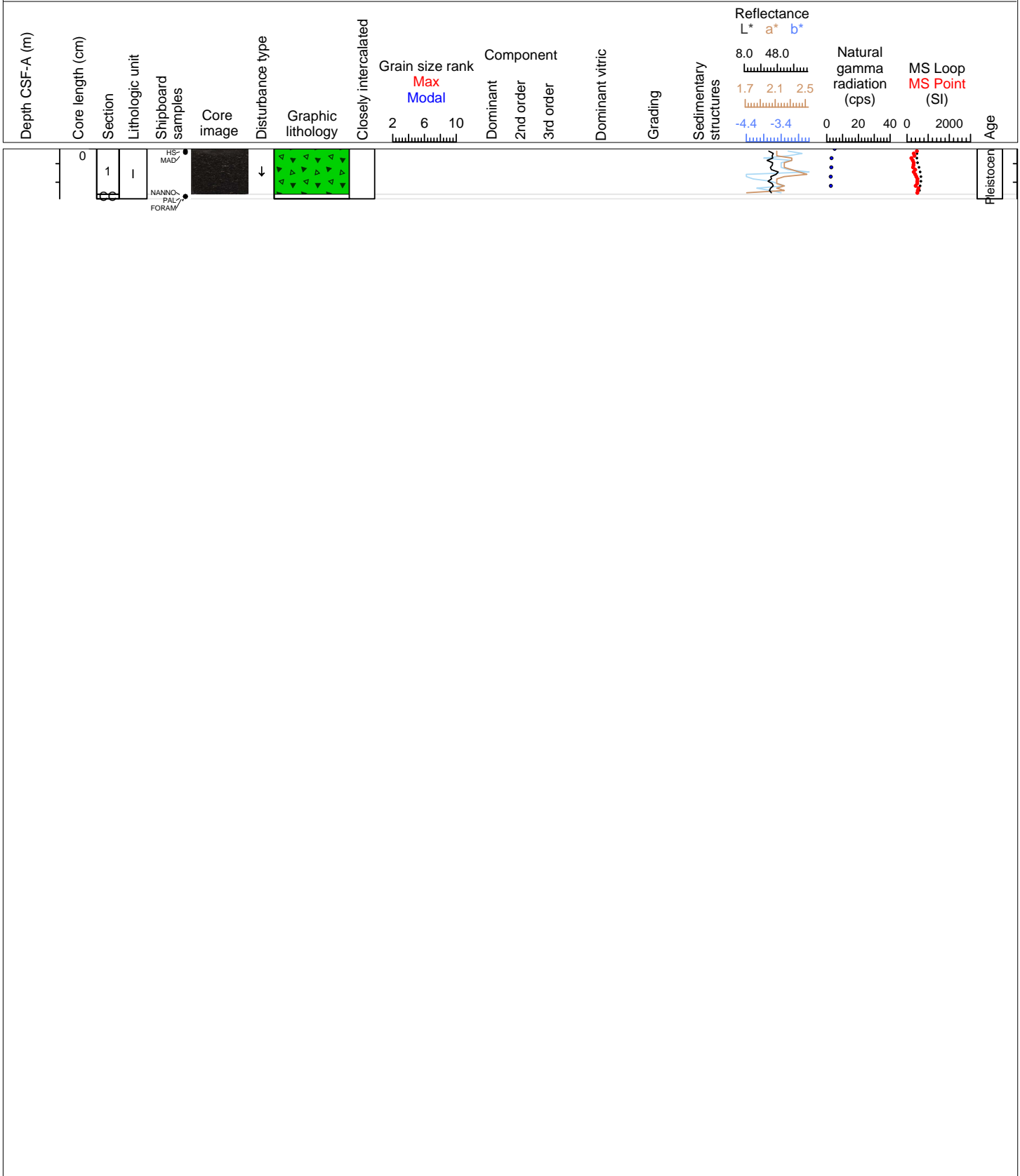
Hole 350-U1436A Core 10F, Interval 59.7-62.15 m (CSF-A)

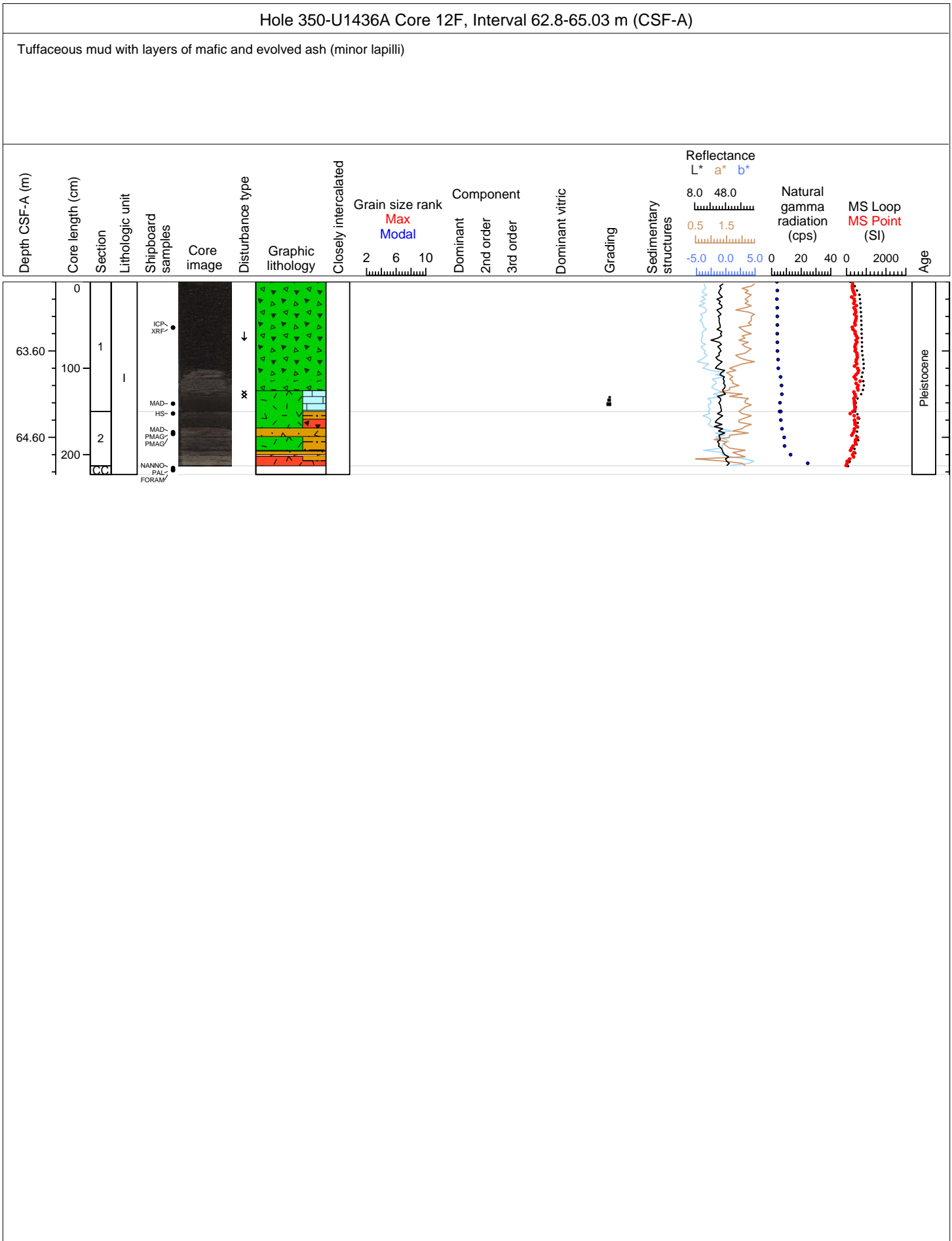
ash with tuffaceous mud

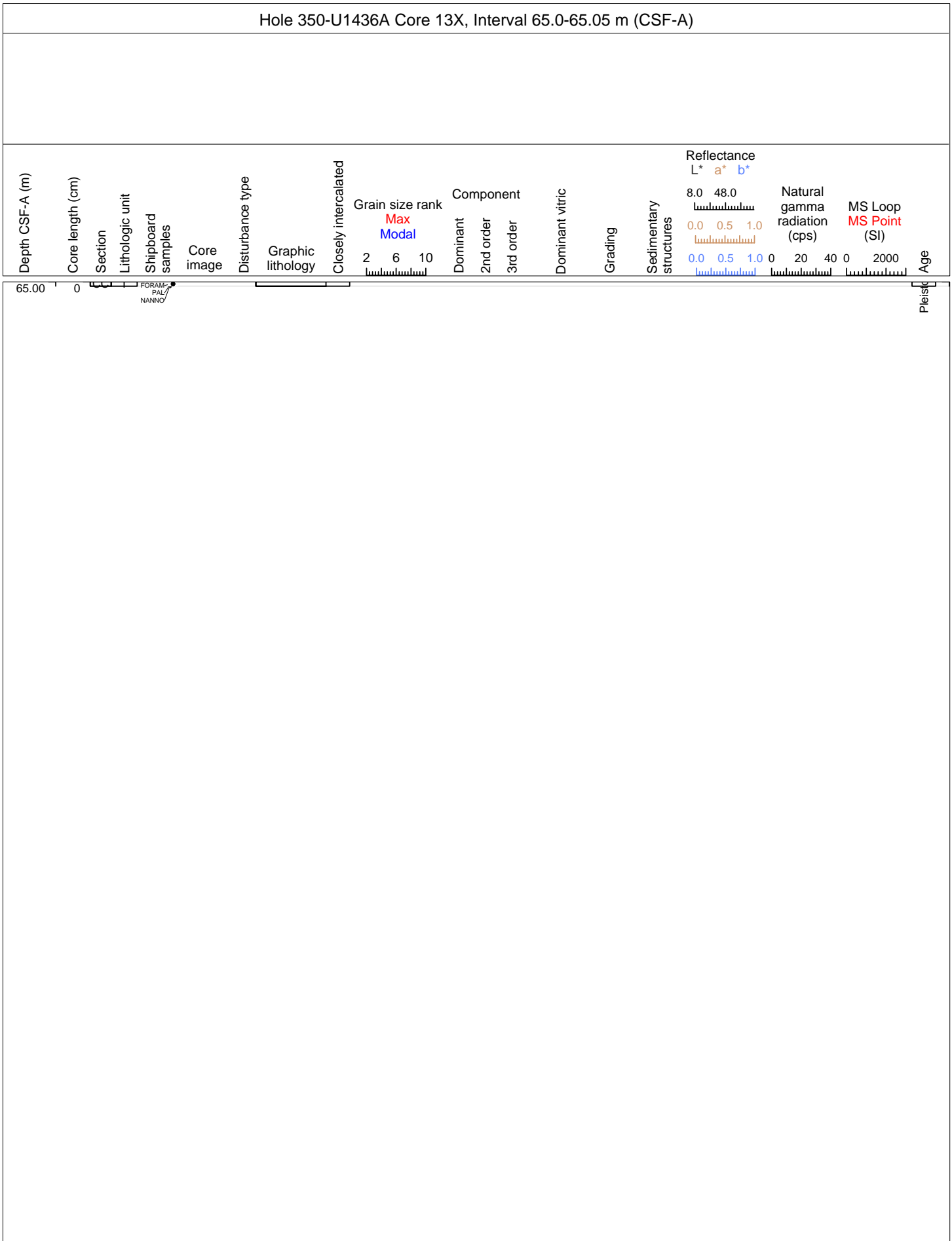


Hole 350-U1436A Core 11F, Interval 62.2-62.74 m (CSF-A)

core disturbed

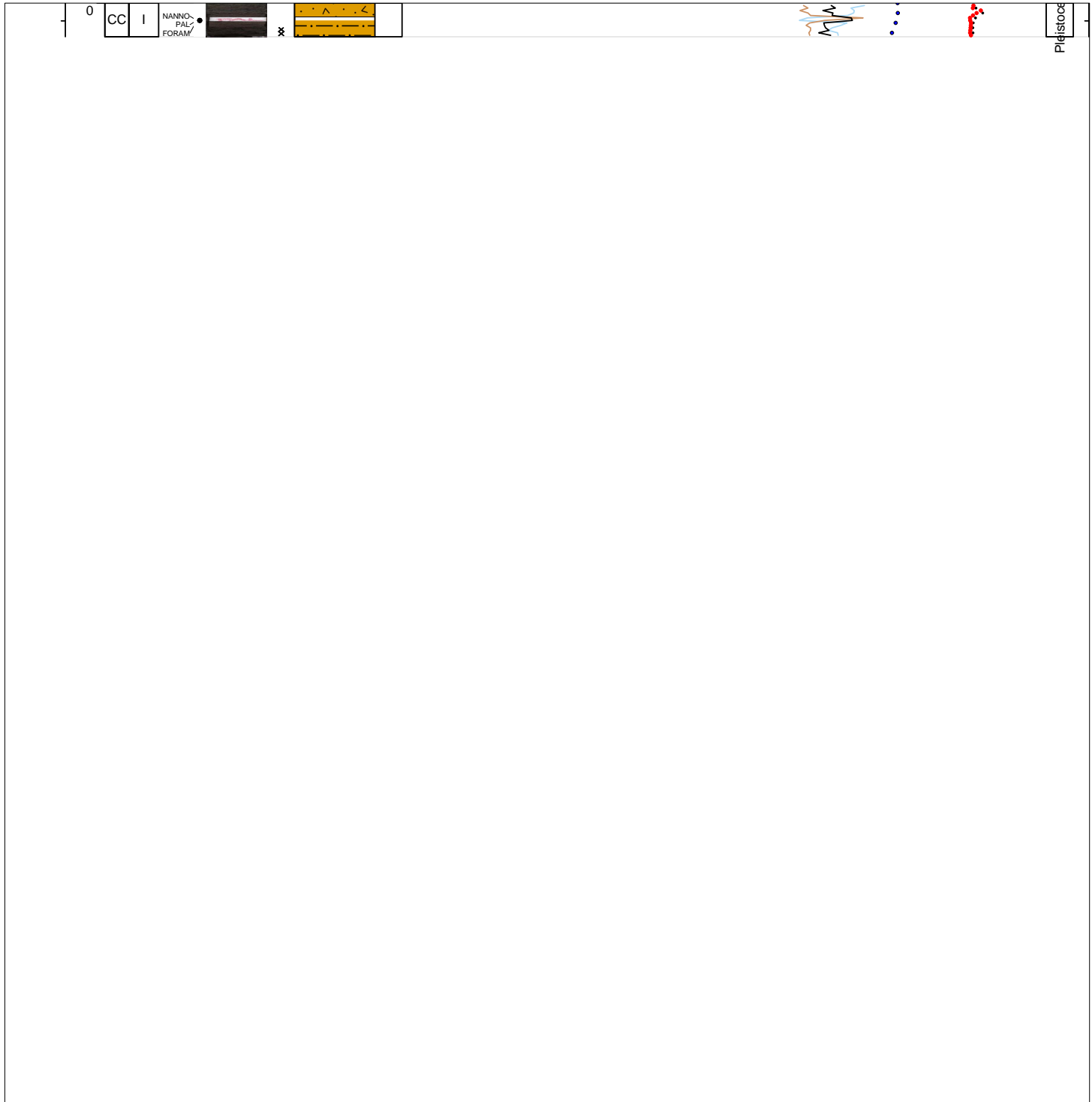
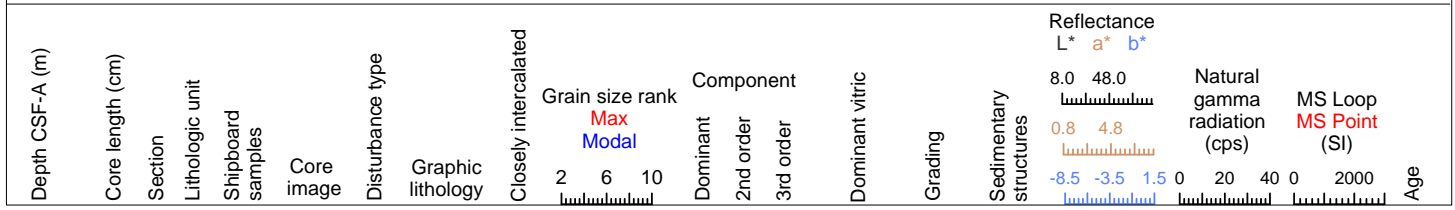






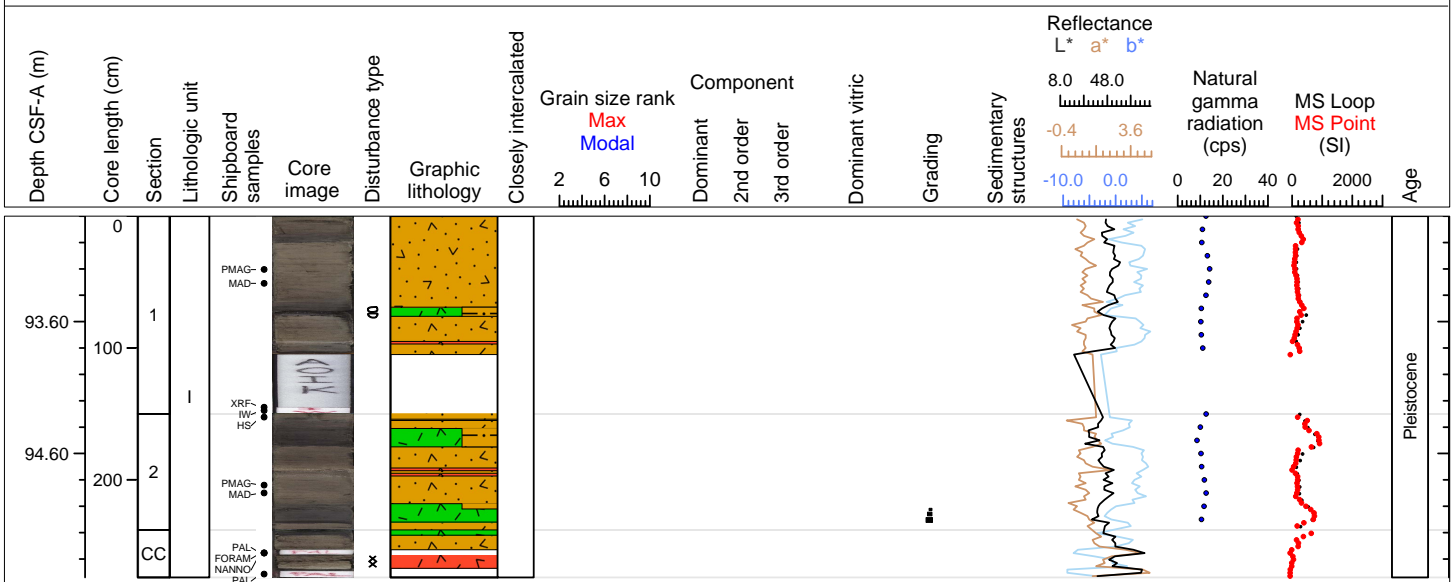
Hole 350-U1436A Core 15X, Interval 83.1-83.44 m (CSF-A)

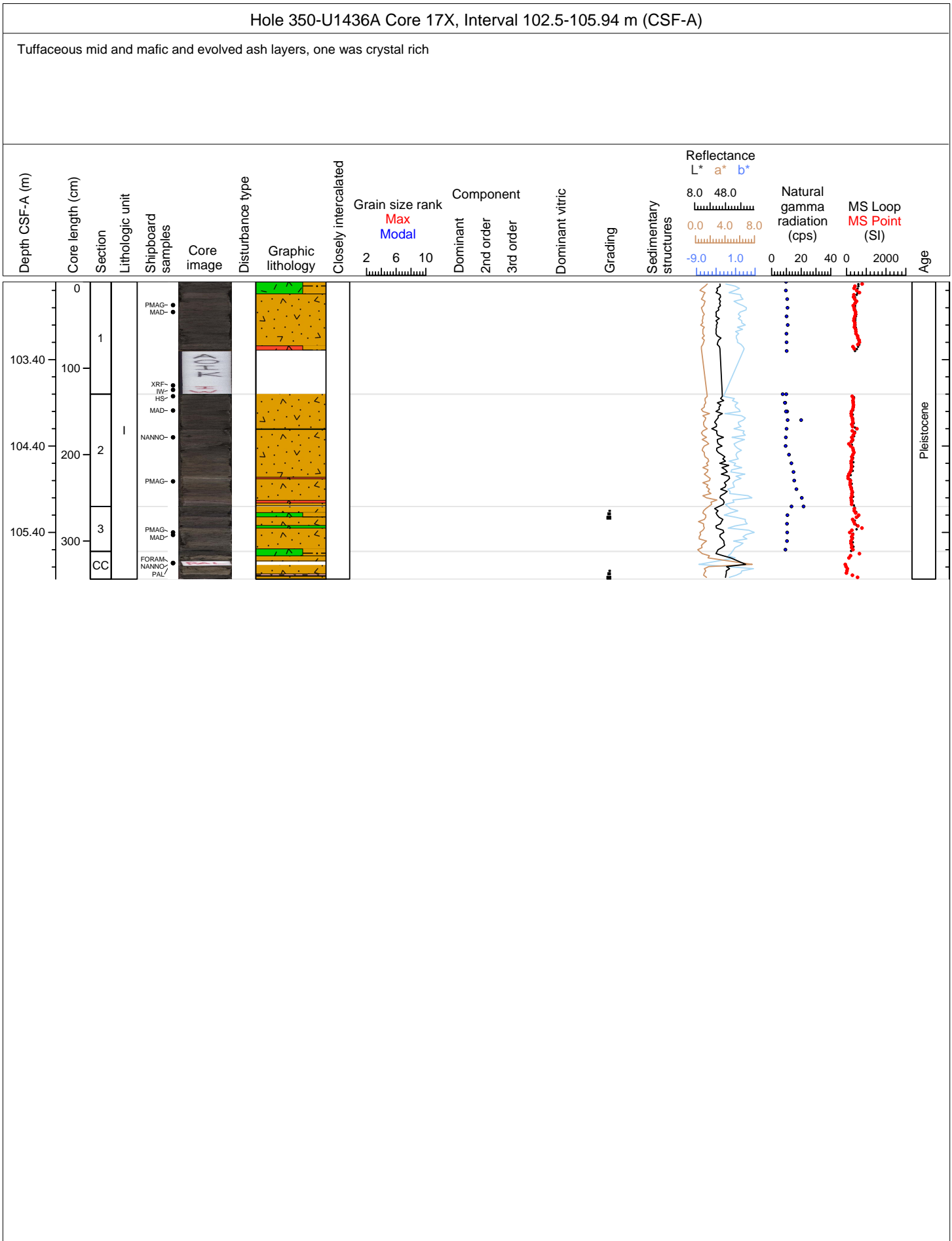
Tuffaceous mud with ash layers



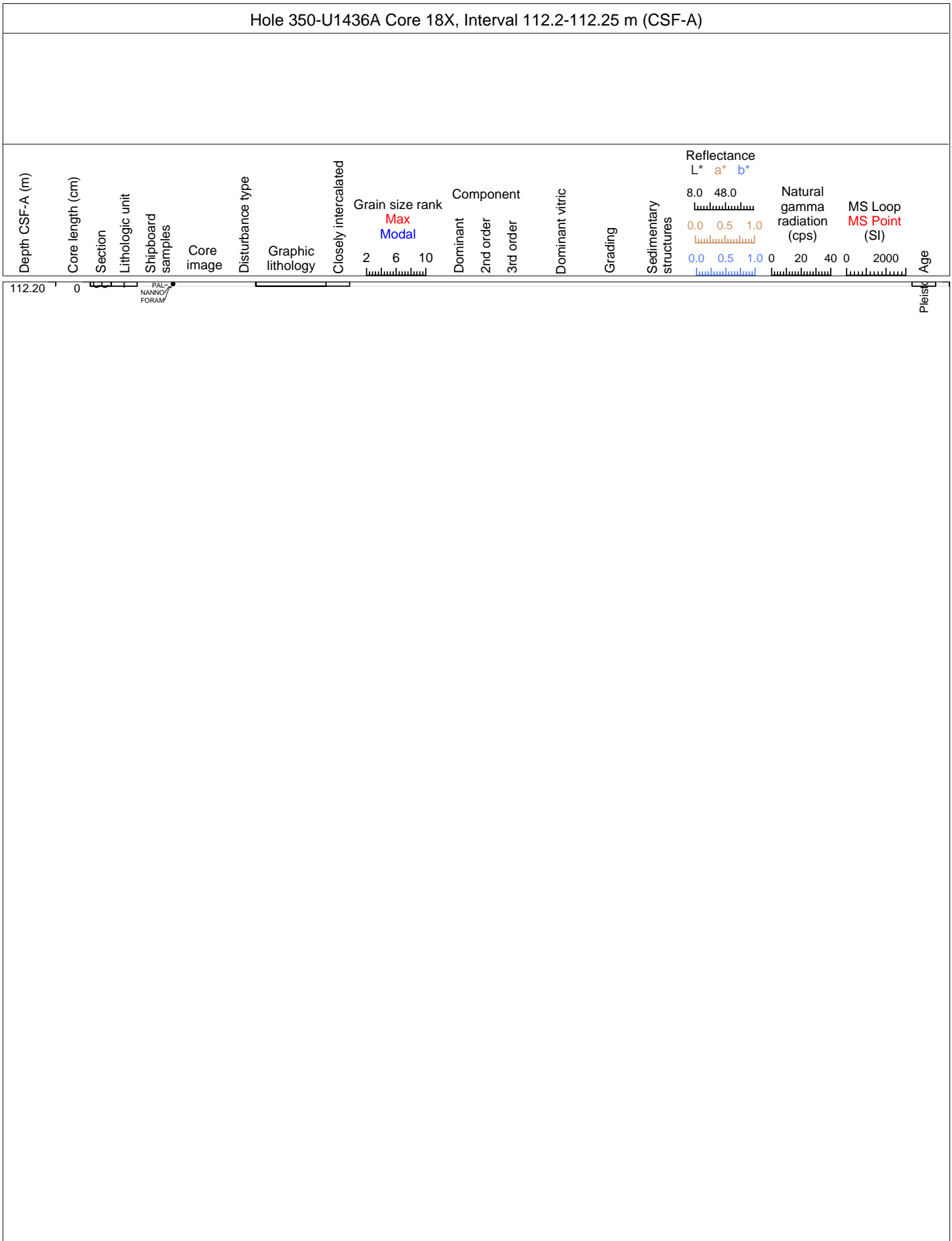
Hole 350-U1436A Core 16X, Interval 92.8-95.54 m (CSF-A)

interlayered ash and tuffaceous mud with layers of evolved and mafic ash



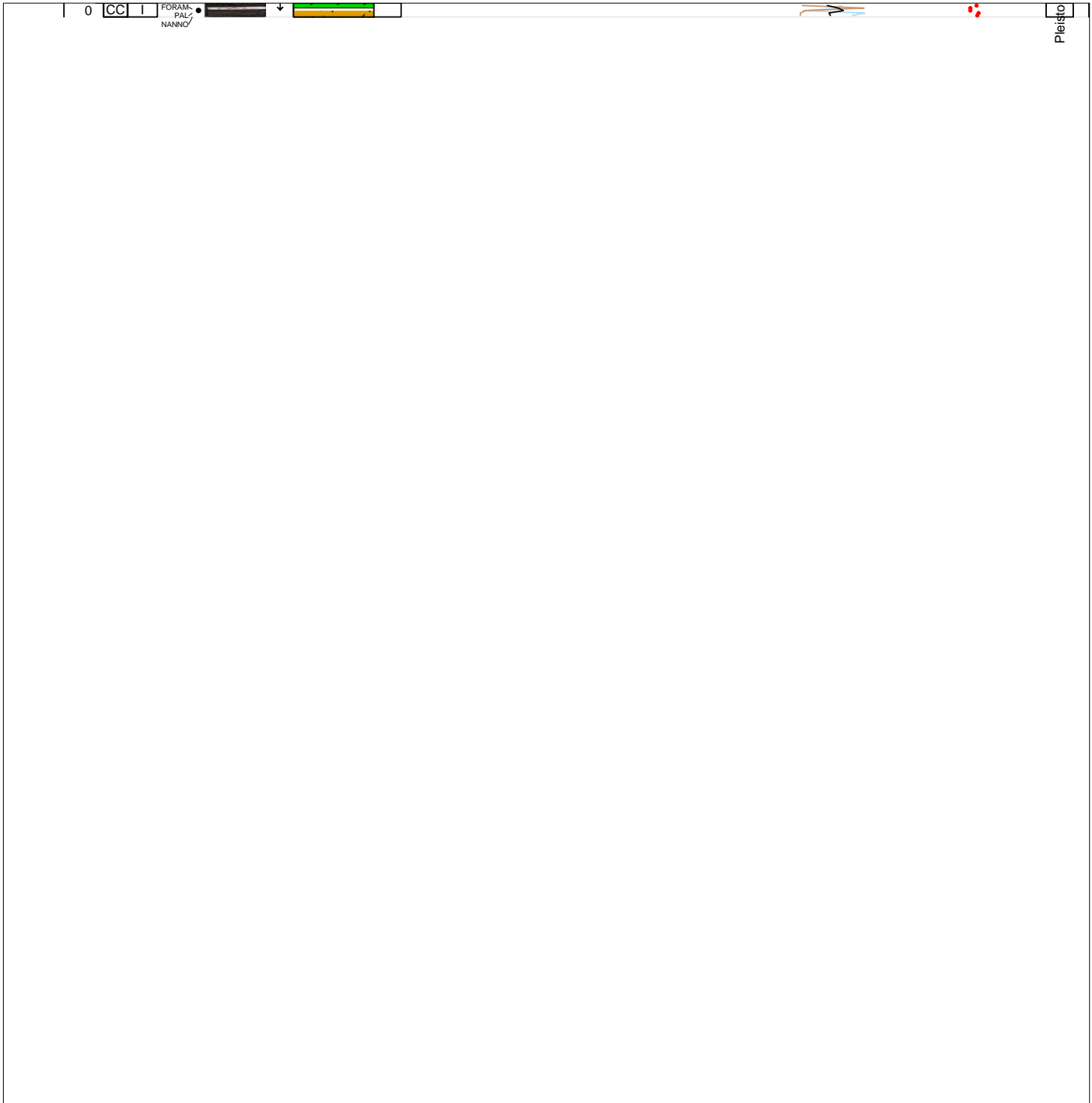
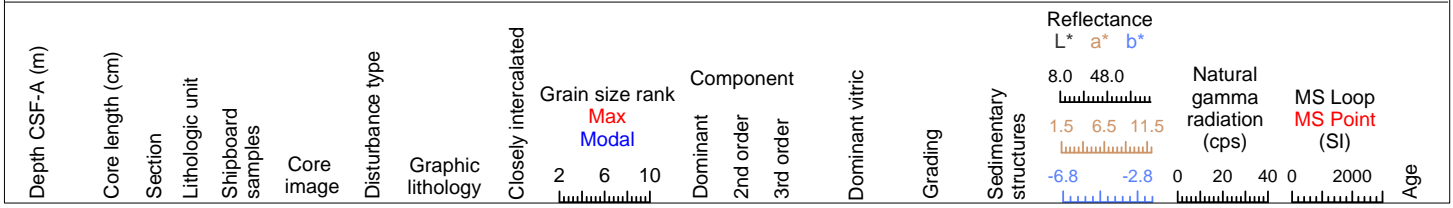






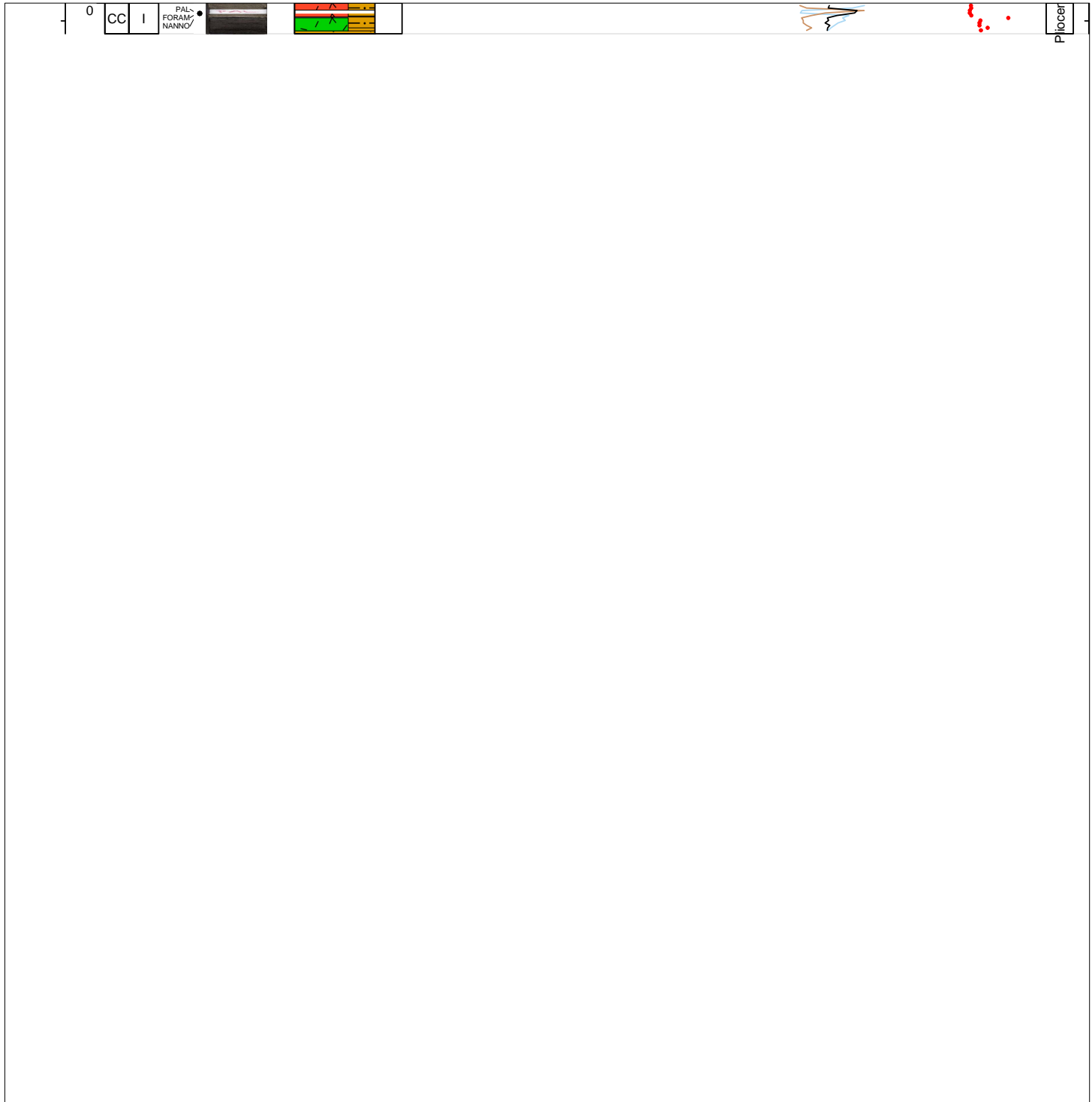
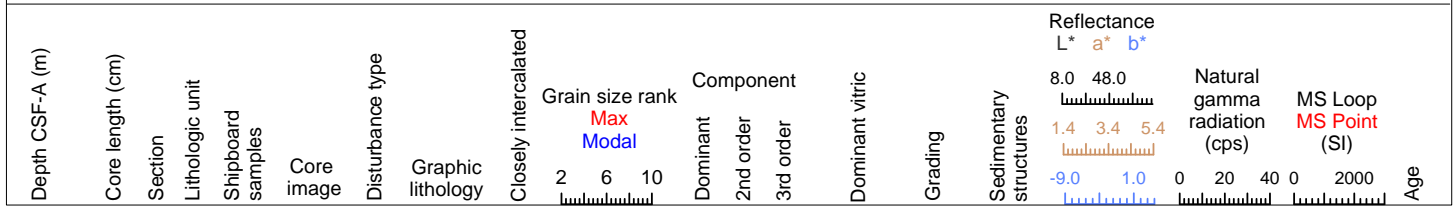
Hole 350-U1436A Core 19X, Interval 121.9-122.04 m (CSF-A)

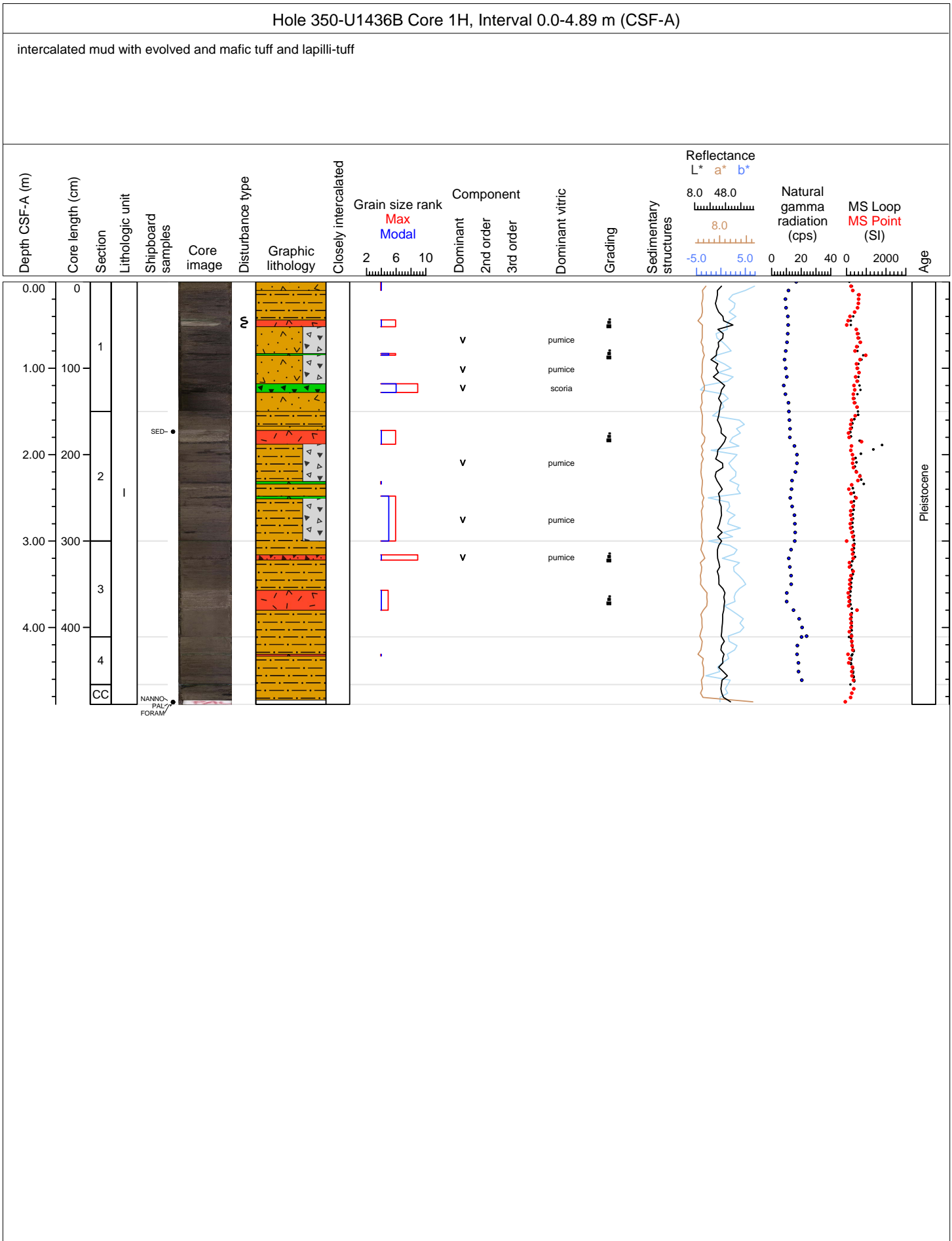
Tuffaceous mud with ash layers

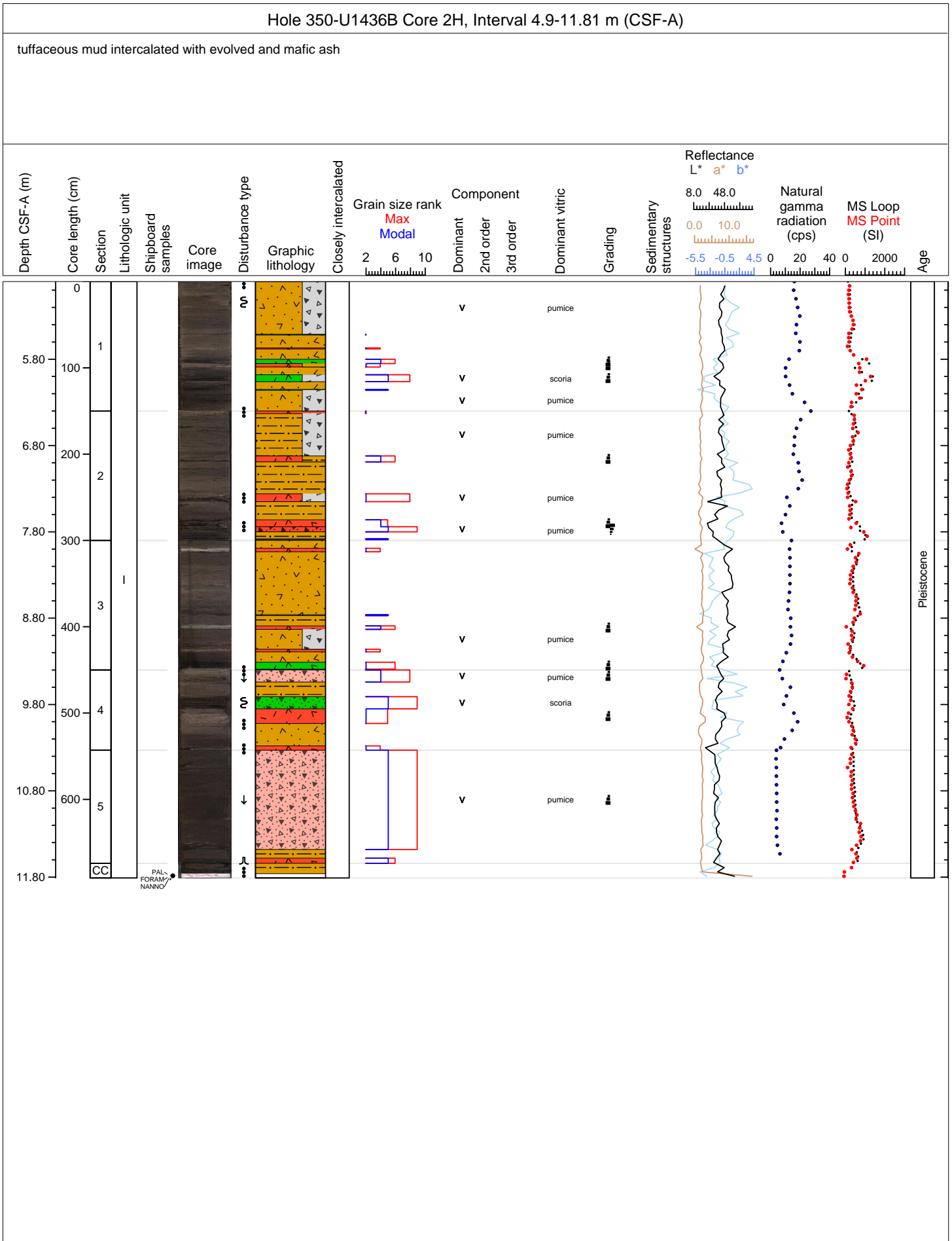


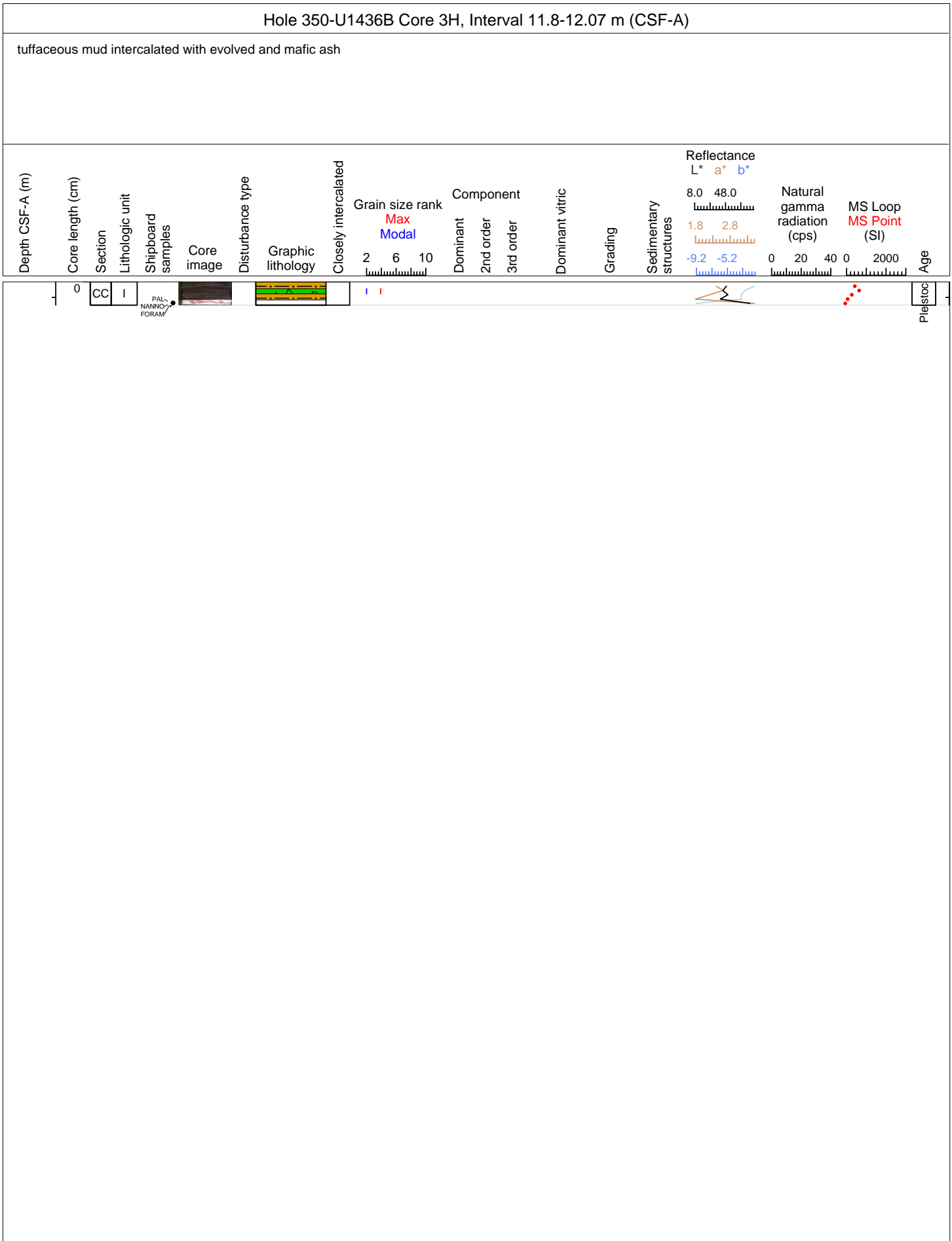
Hole 350-U1436A Core 20X, Interval 131.6-131.91 m (CSF-A)

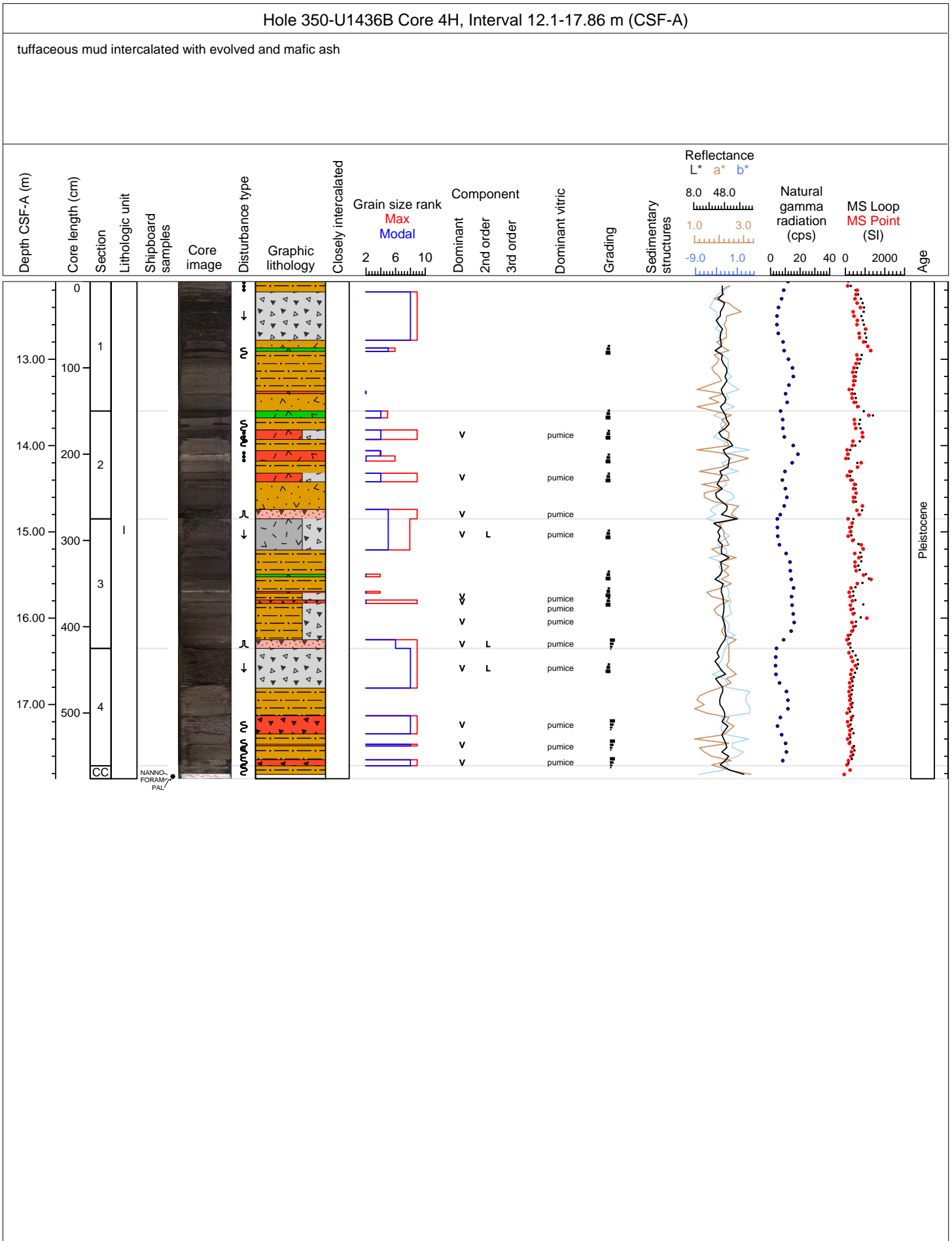
Evolved and mafic ash with tuffaceous mud

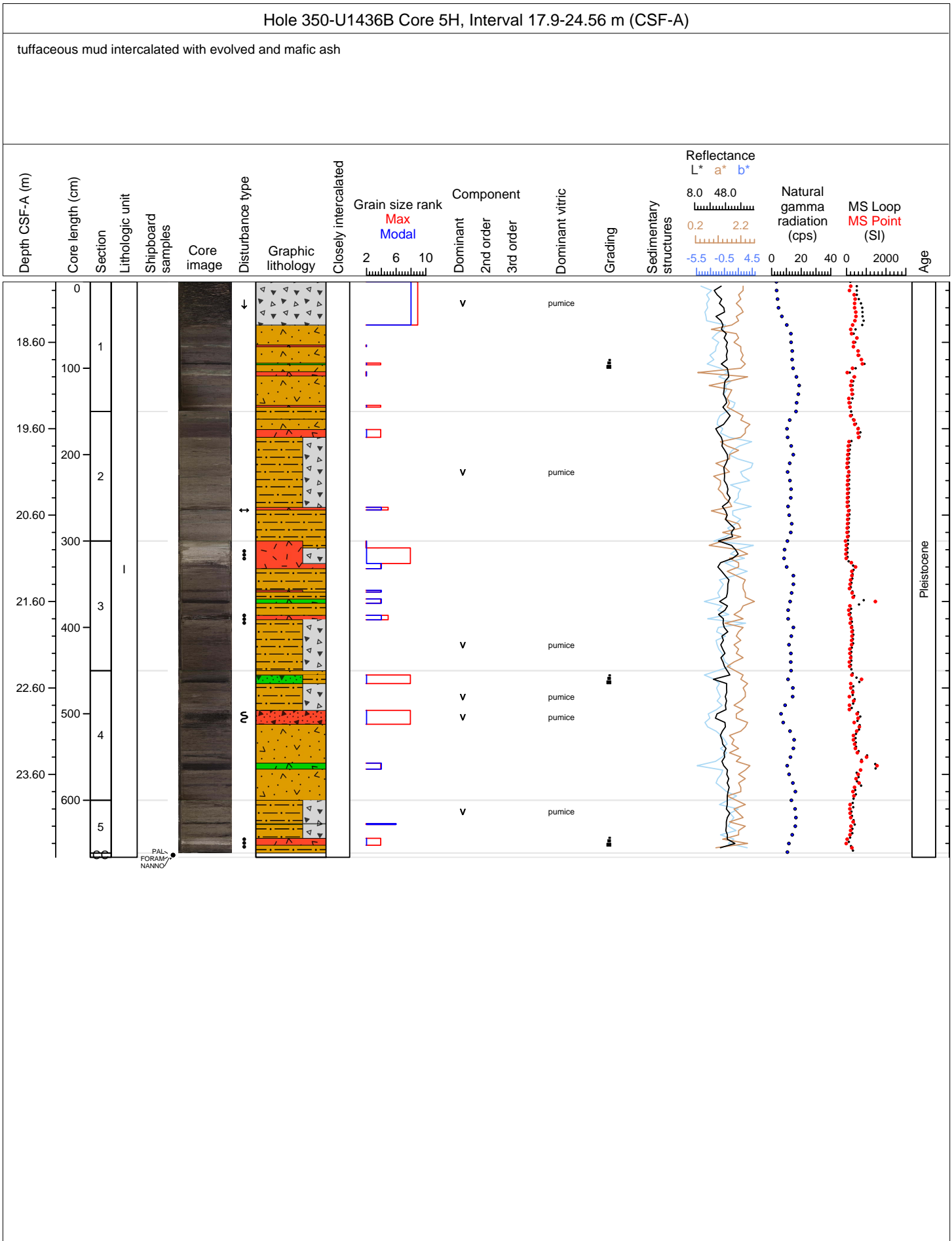




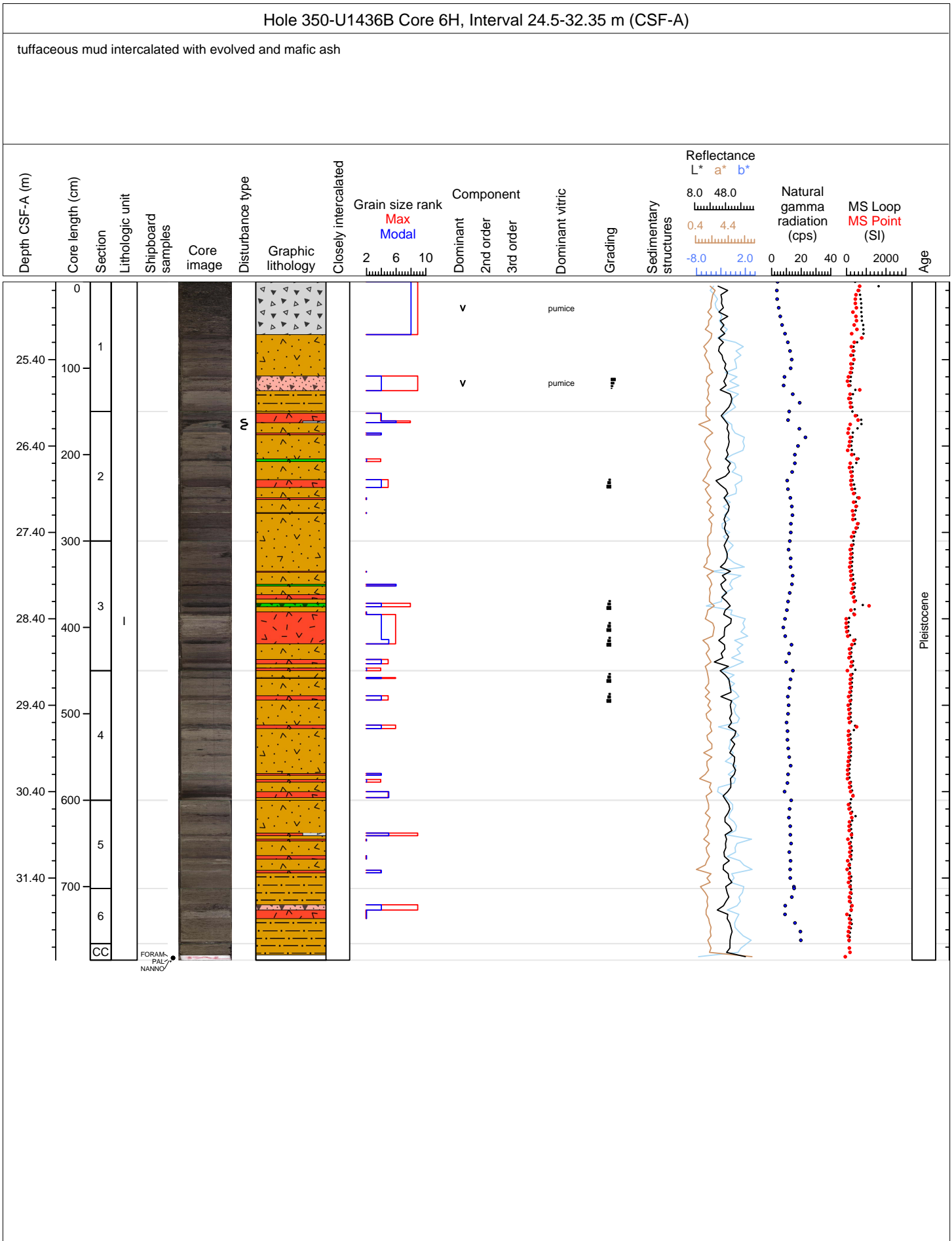




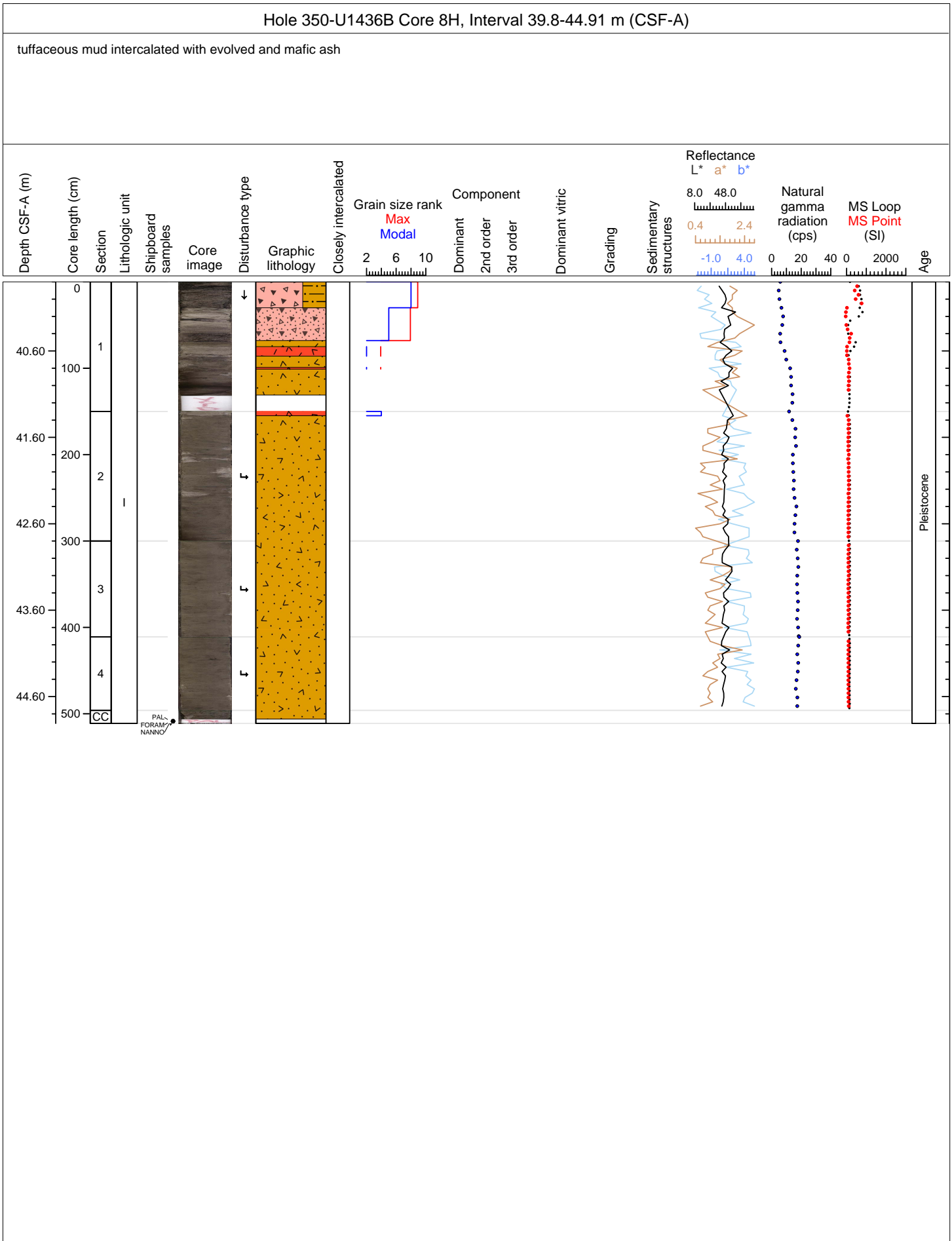


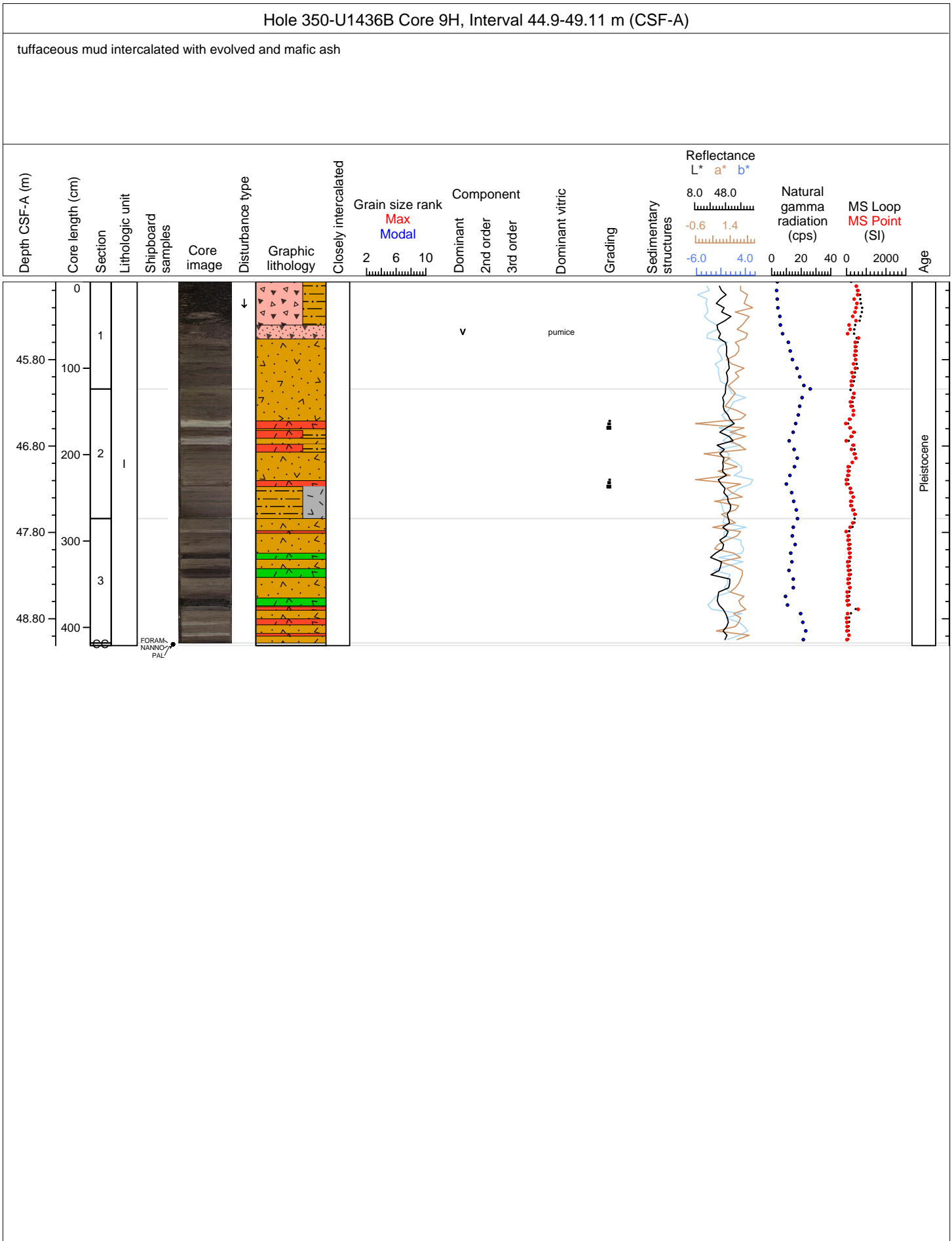






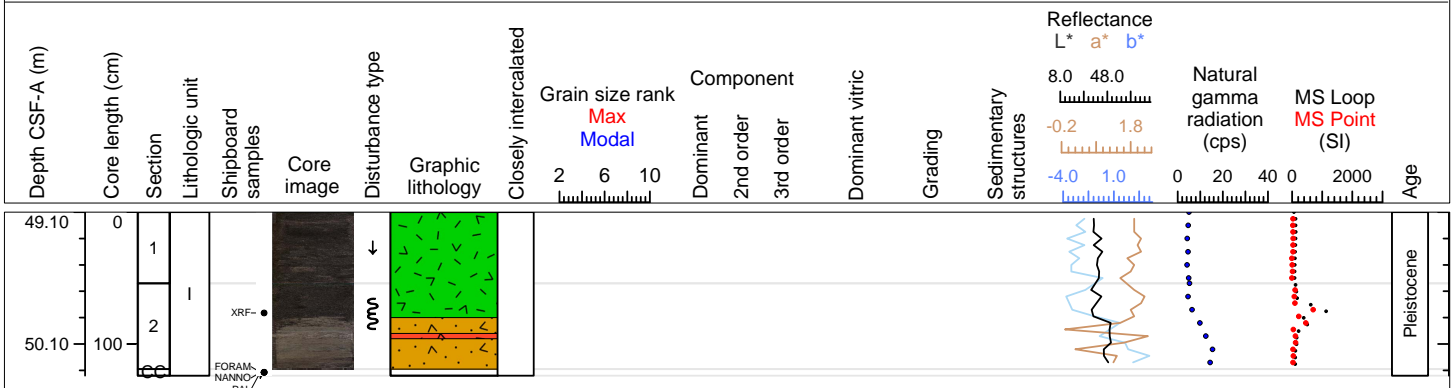






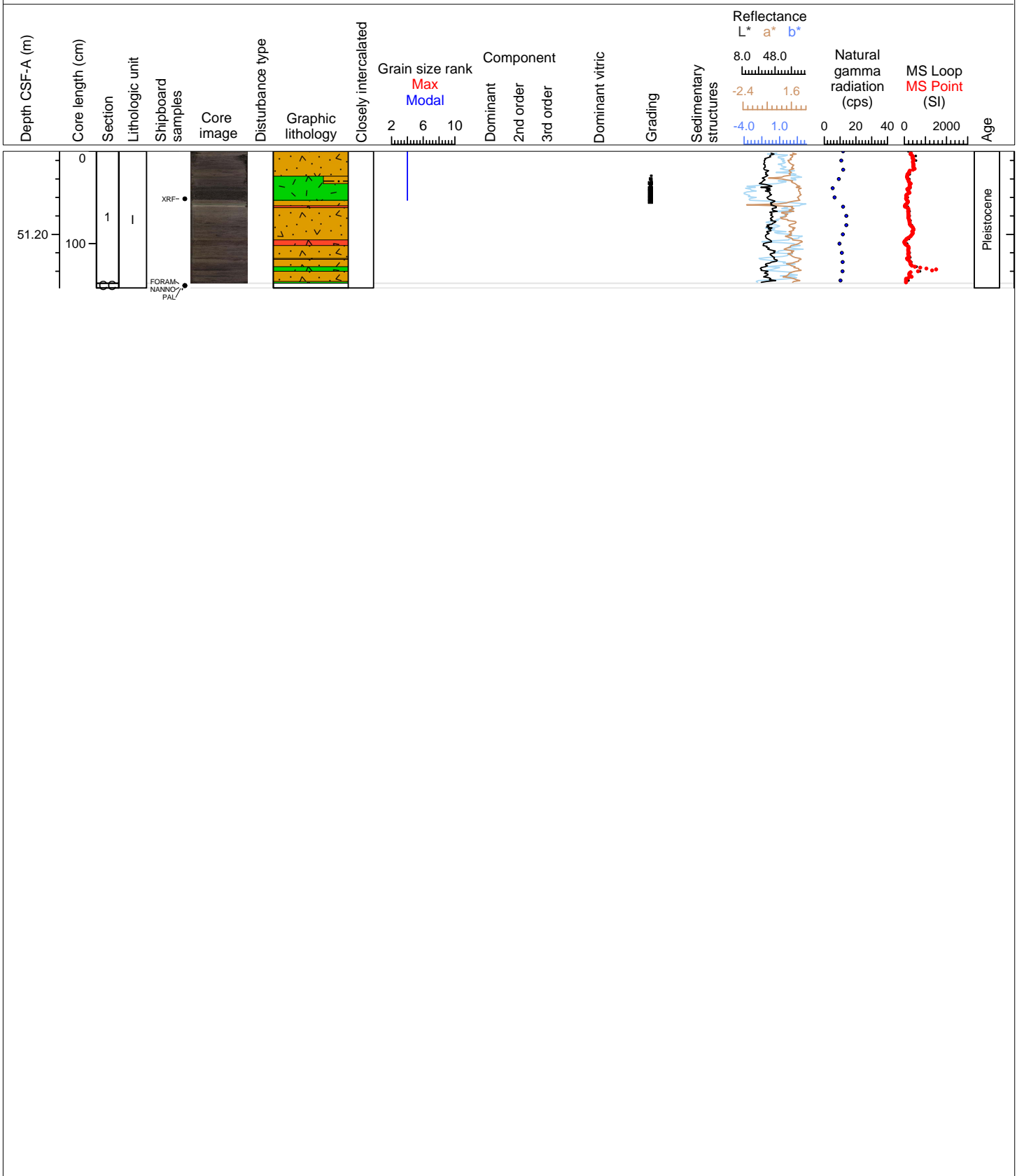
Hole 350-U1436B Core 10H, Interval 49.1-50.34 m (CSF-A)

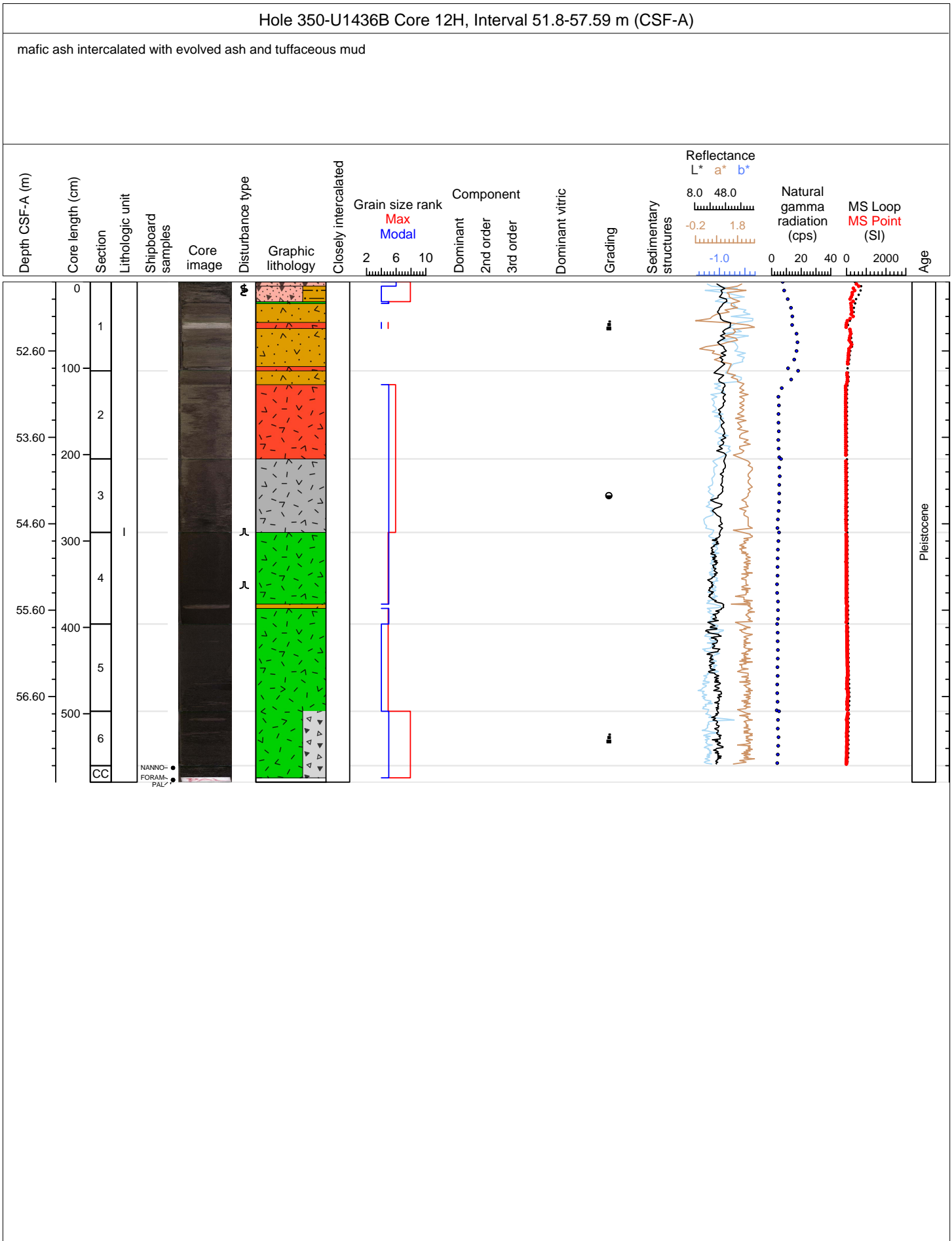
mafic ash intercalated with tuffaceous mud and evolved ash



Hole 350-U1436B Core 11H, Interval 50.3-51.78 m (CSF-A)

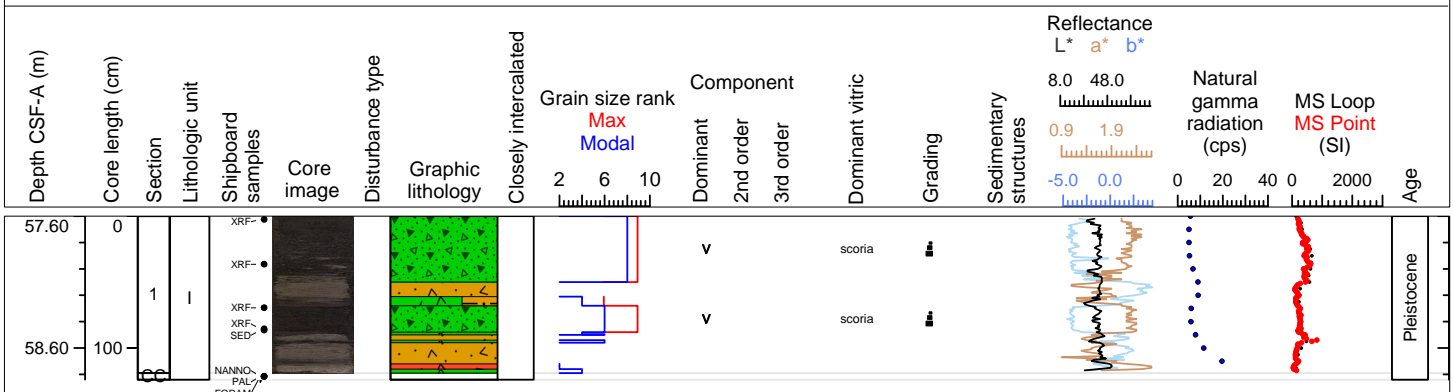
tuffaceous mud intercalated with evolved and mafic ash



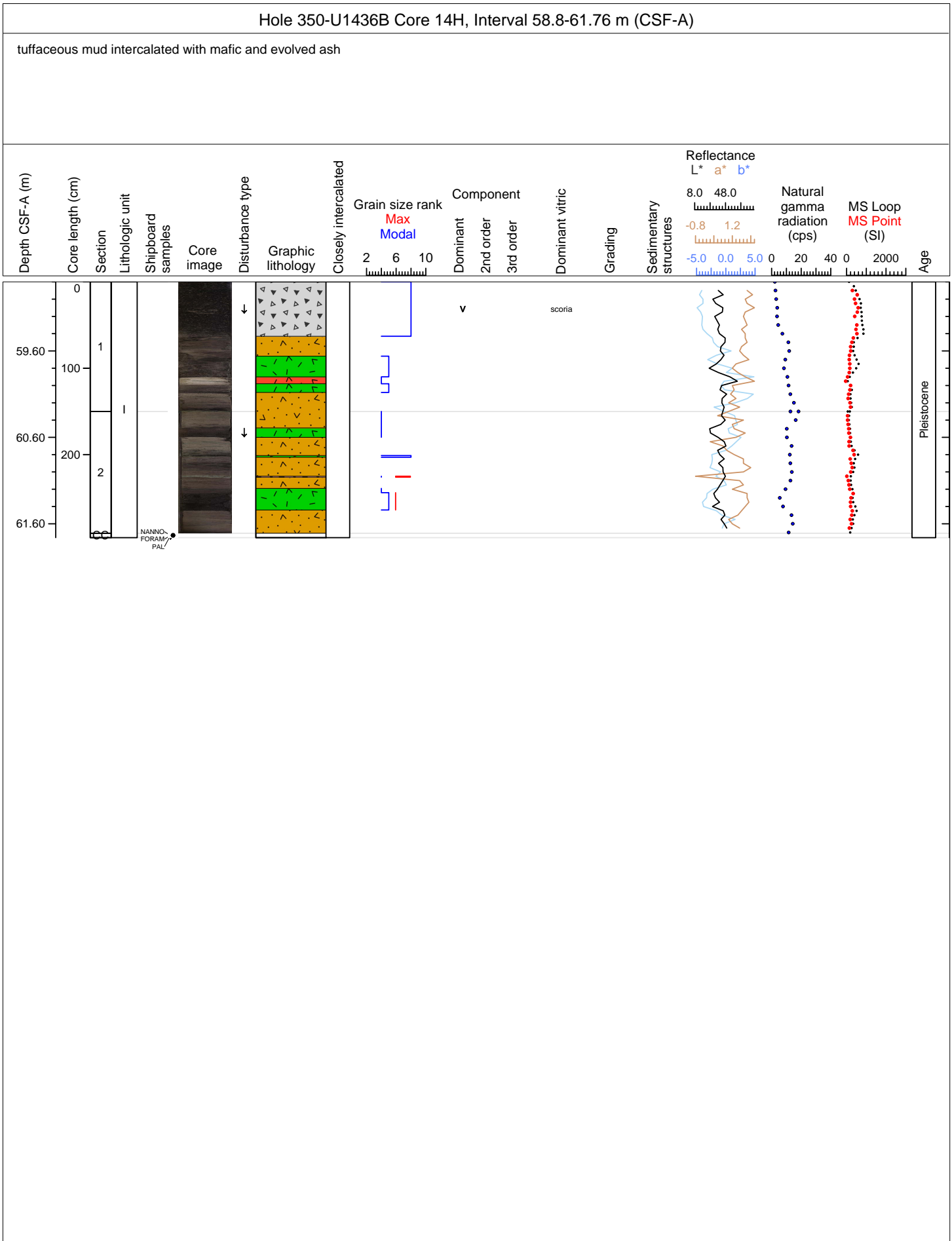


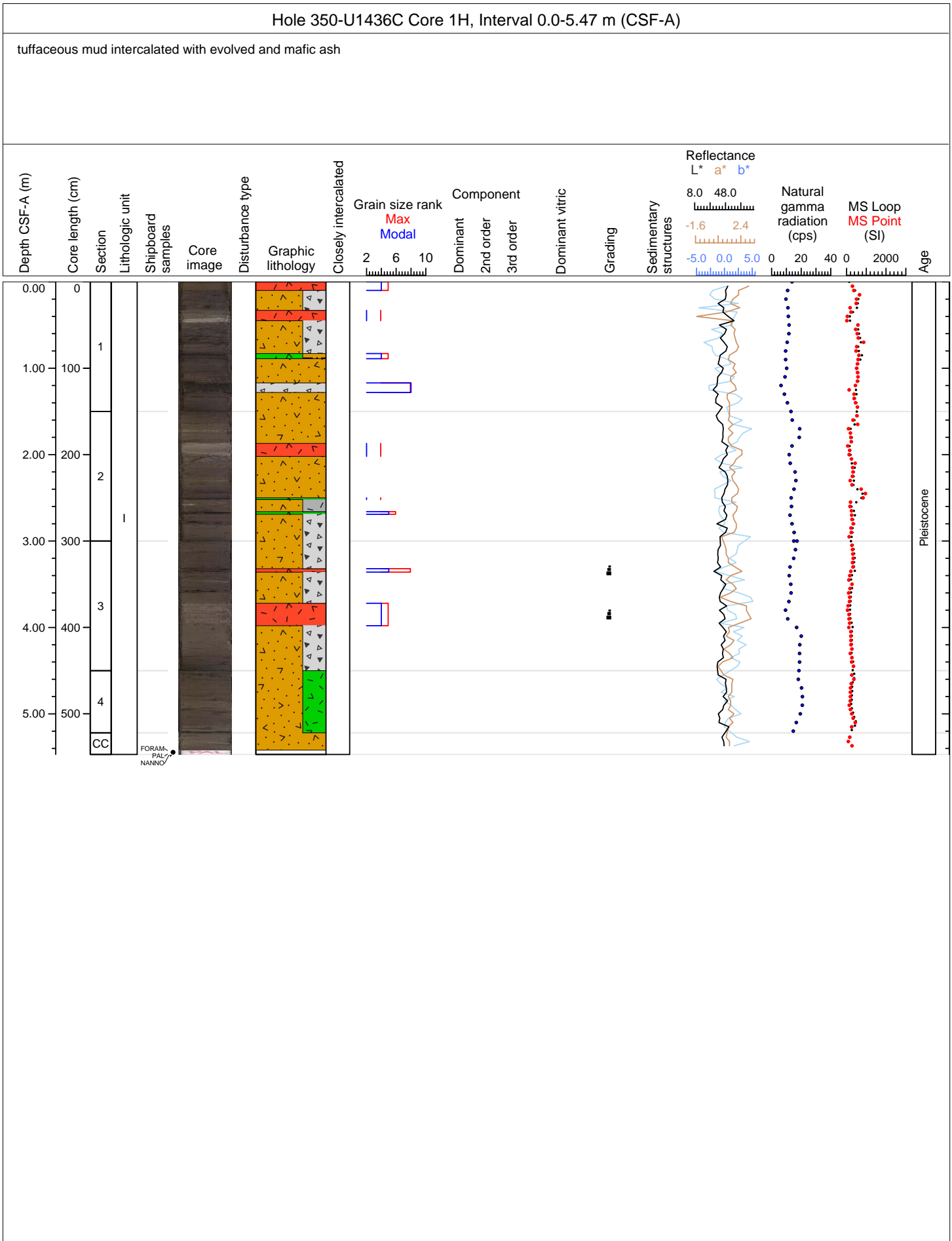
Hole 350-U1436B Core 13H, Interval 57.6-58.84 m (CSF-A)

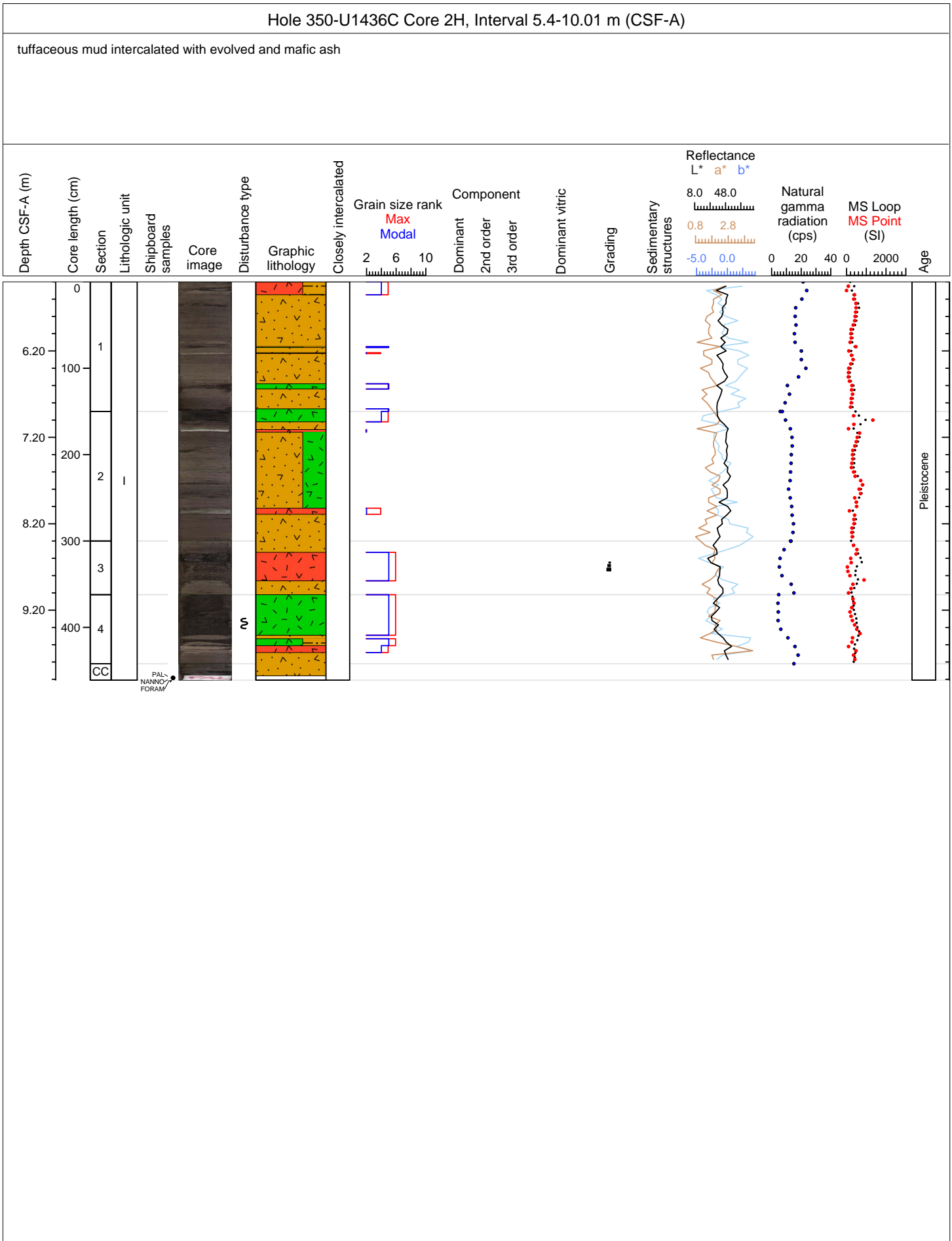
mafic ash intercalated with tuffaceous mud and evolved ash

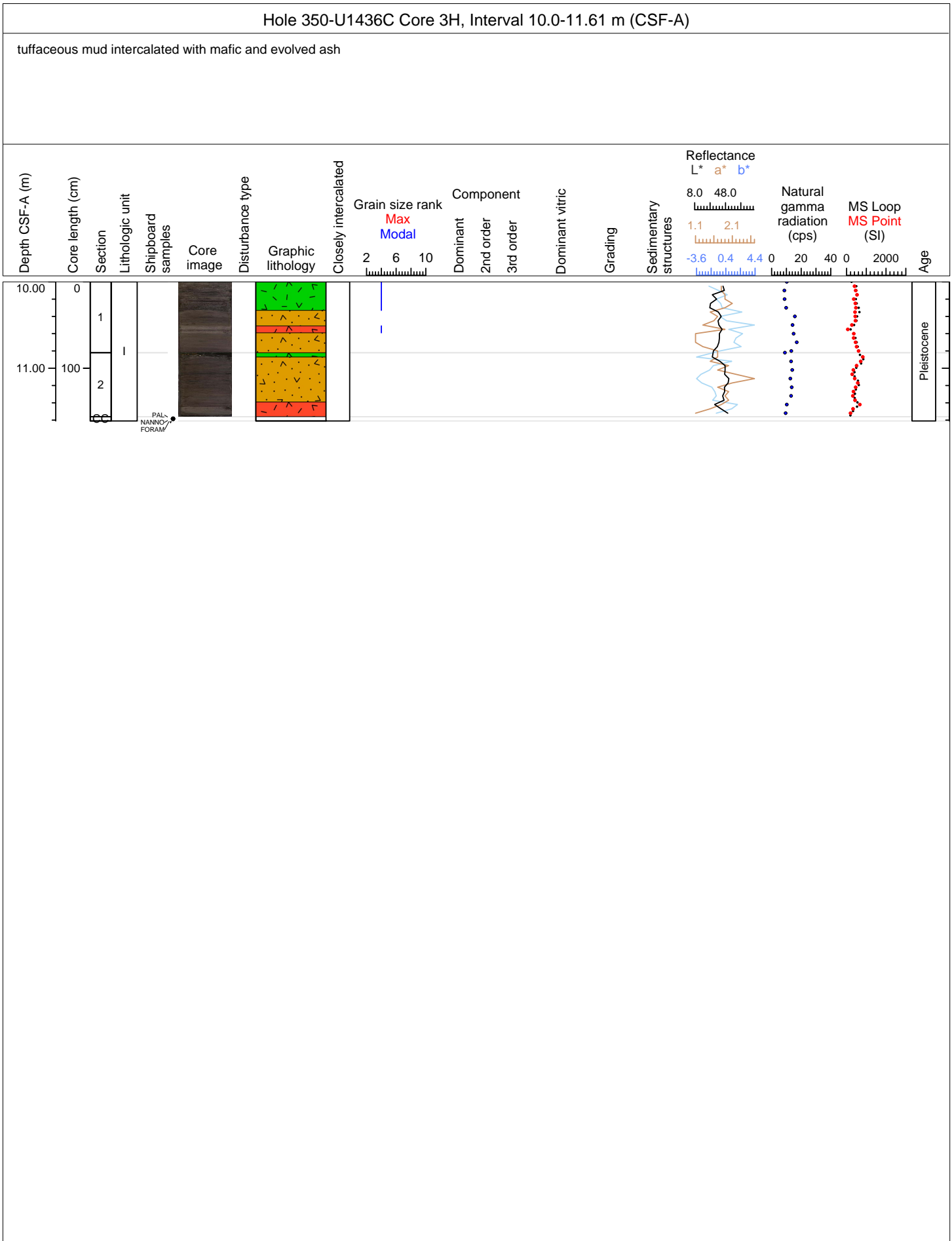




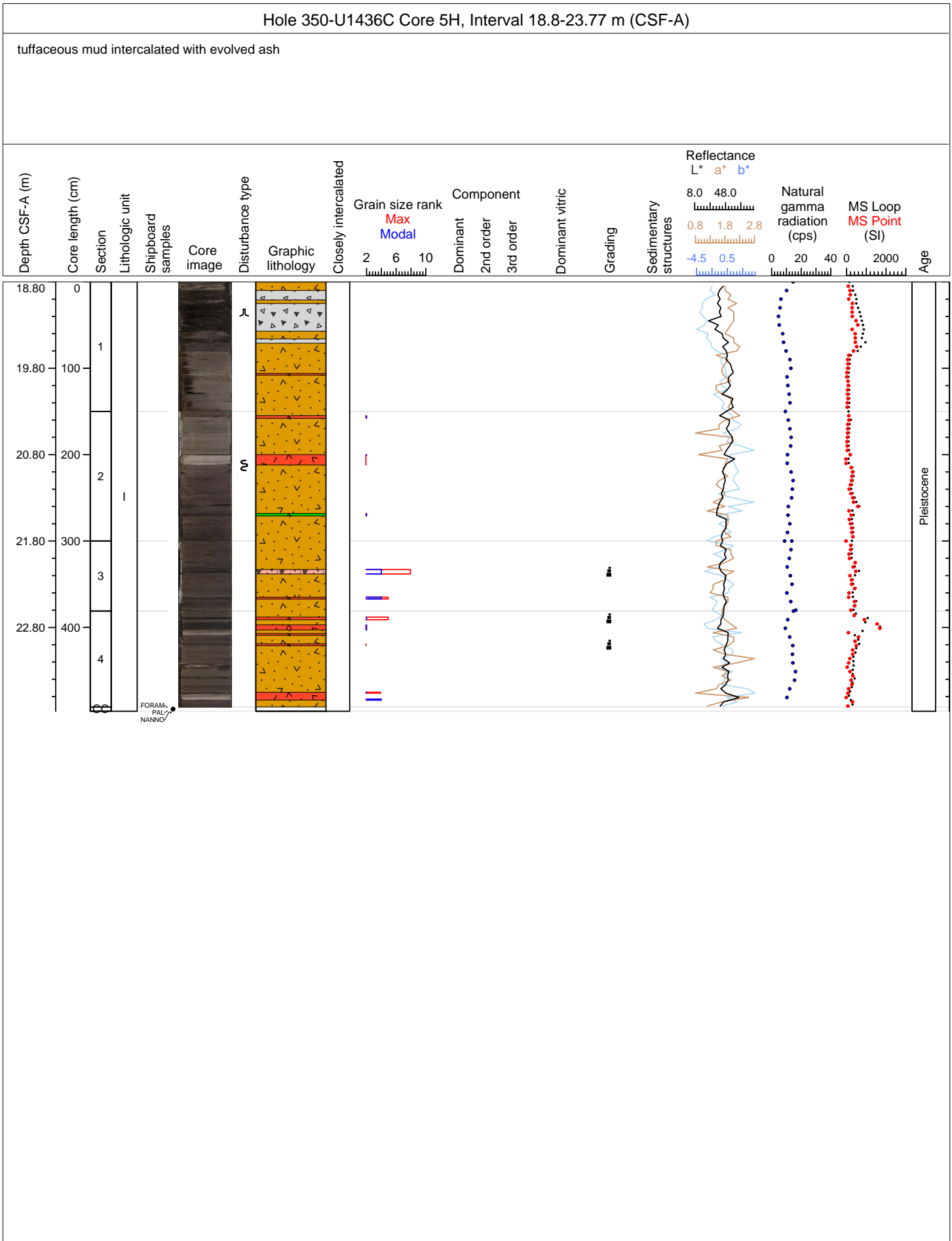


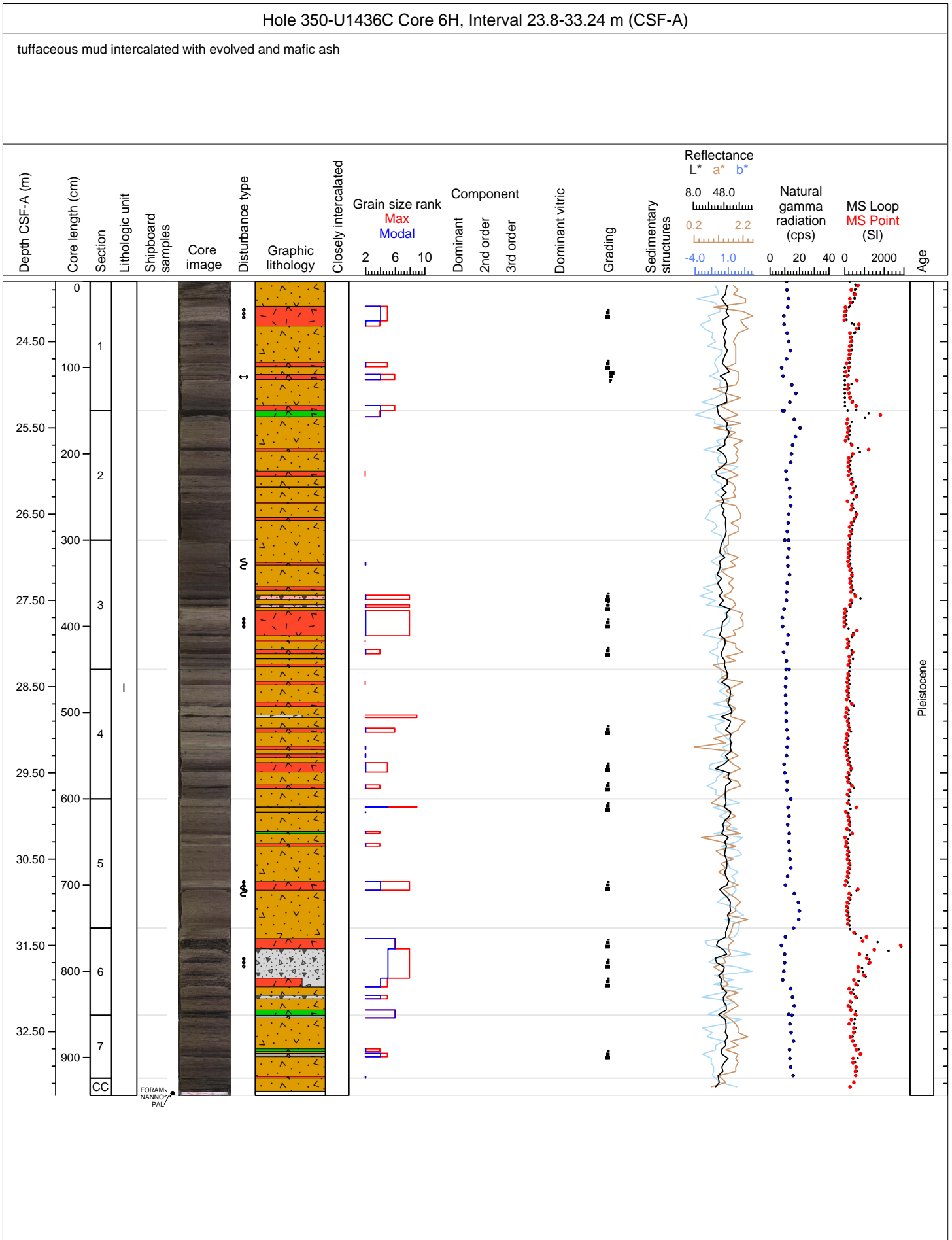


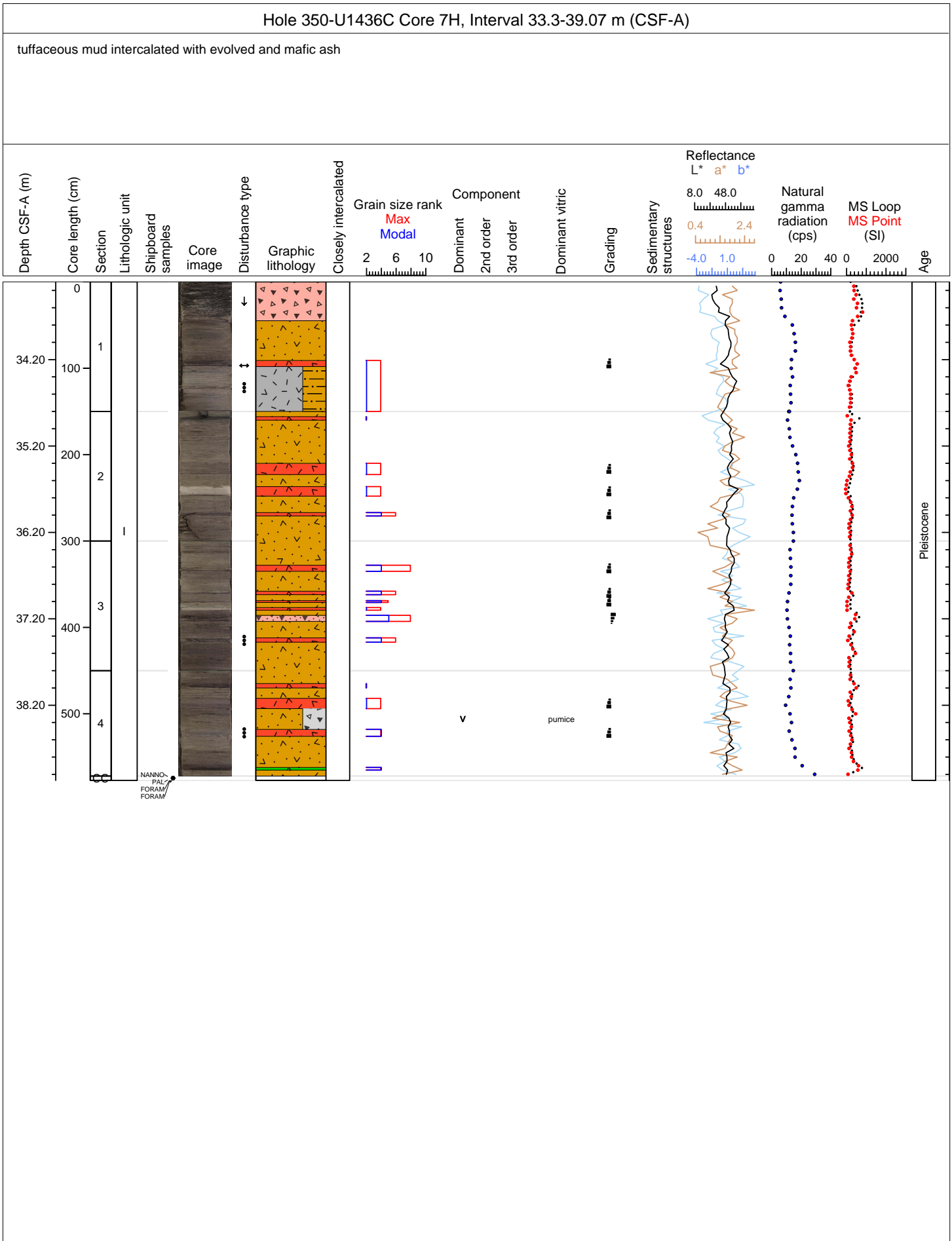




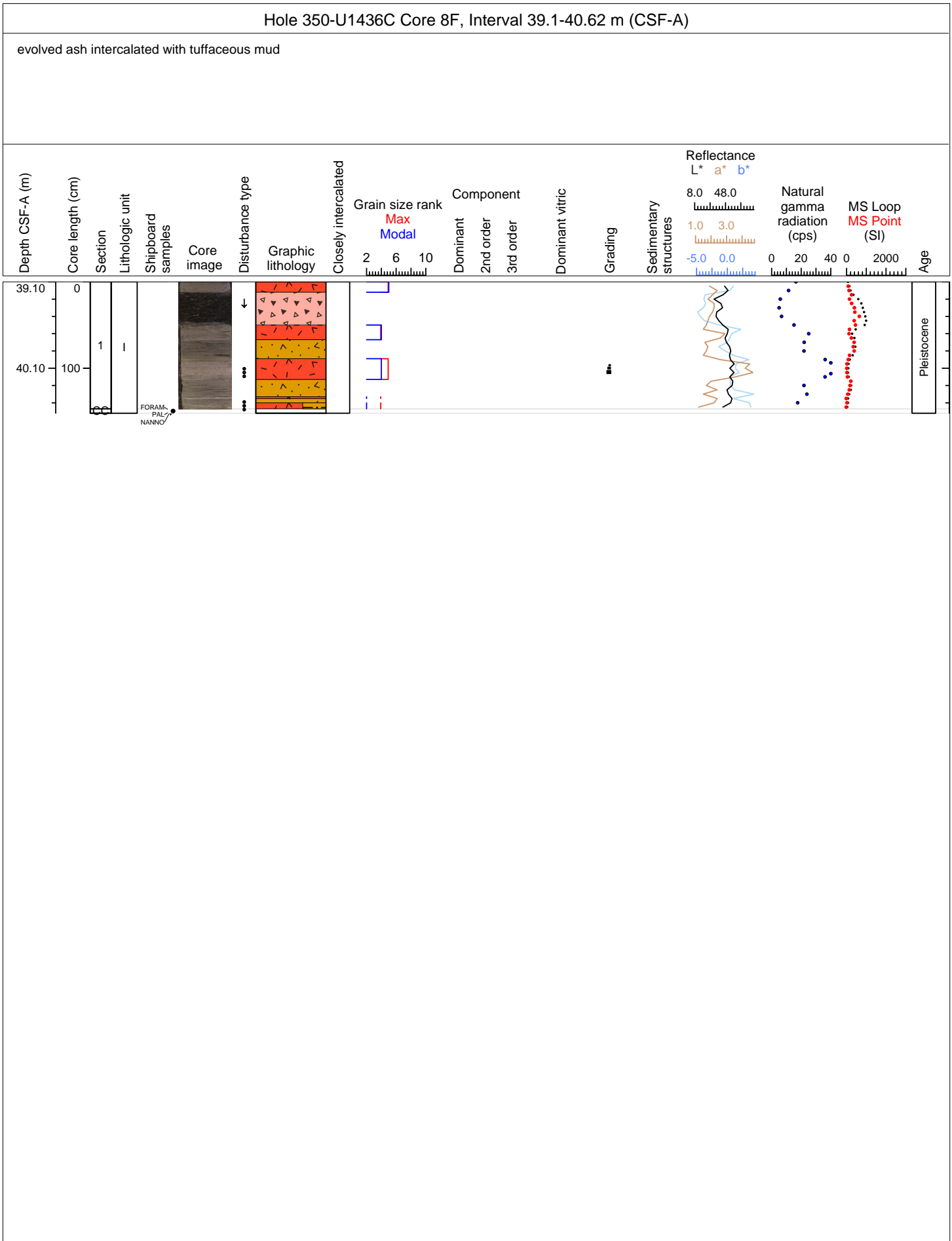


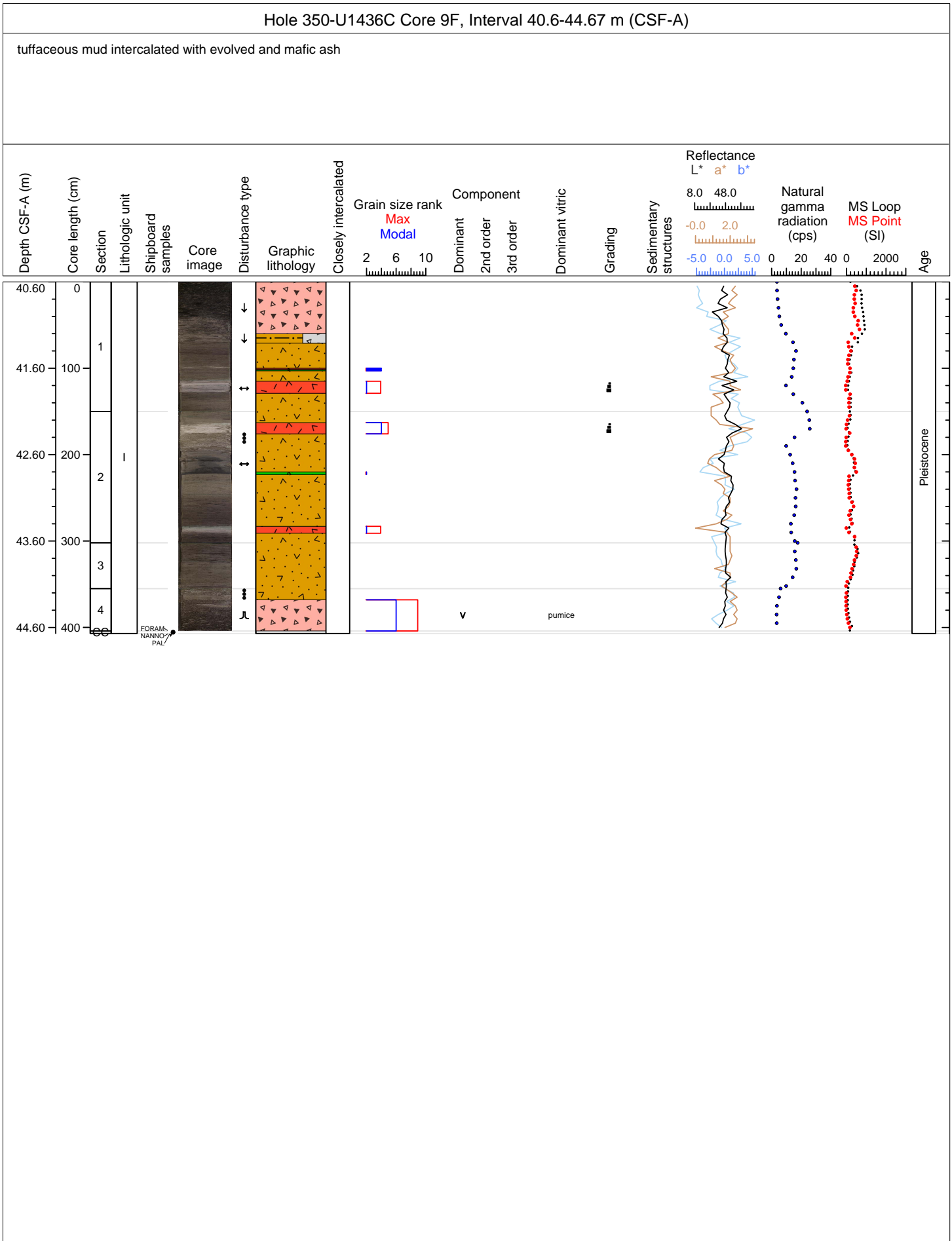


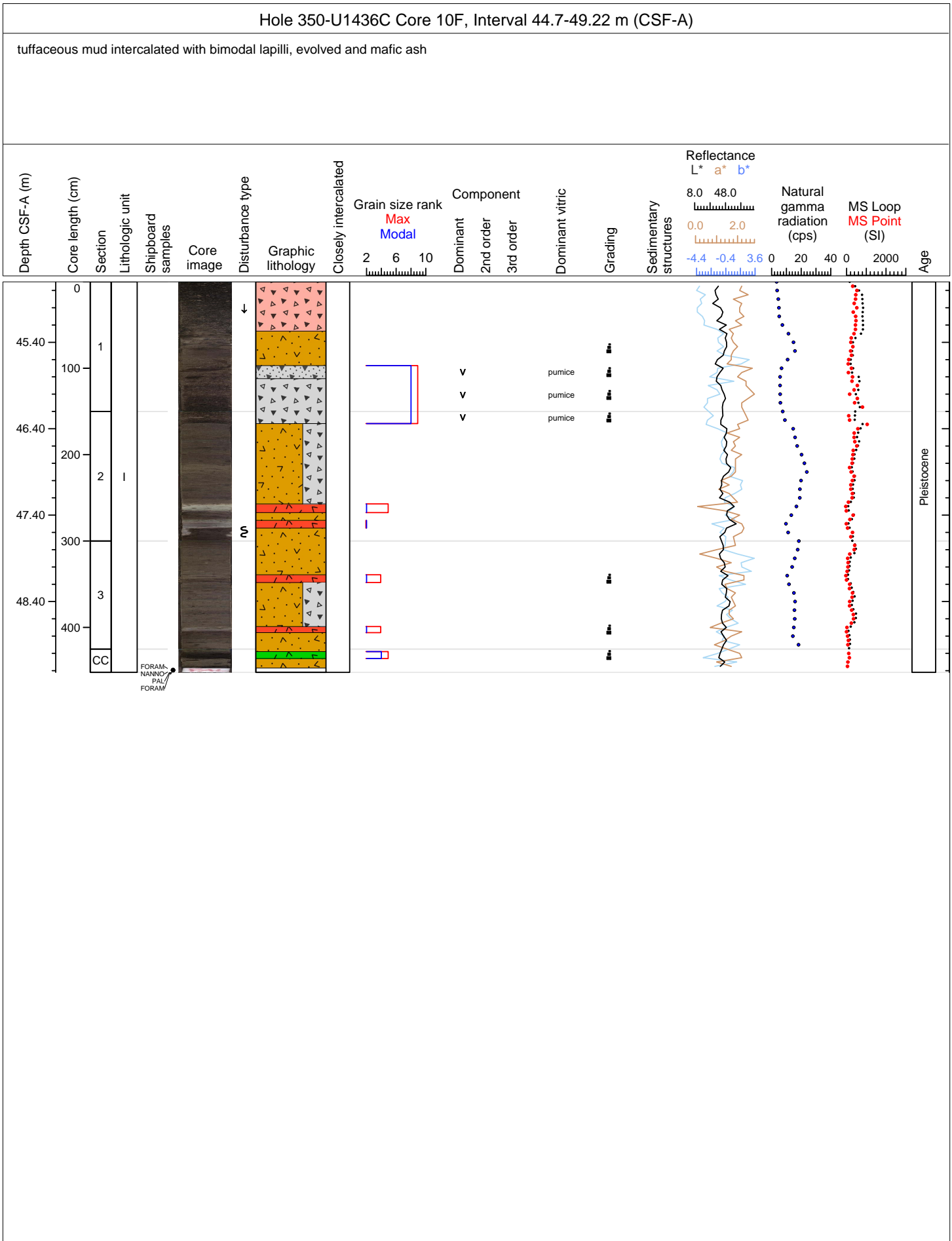






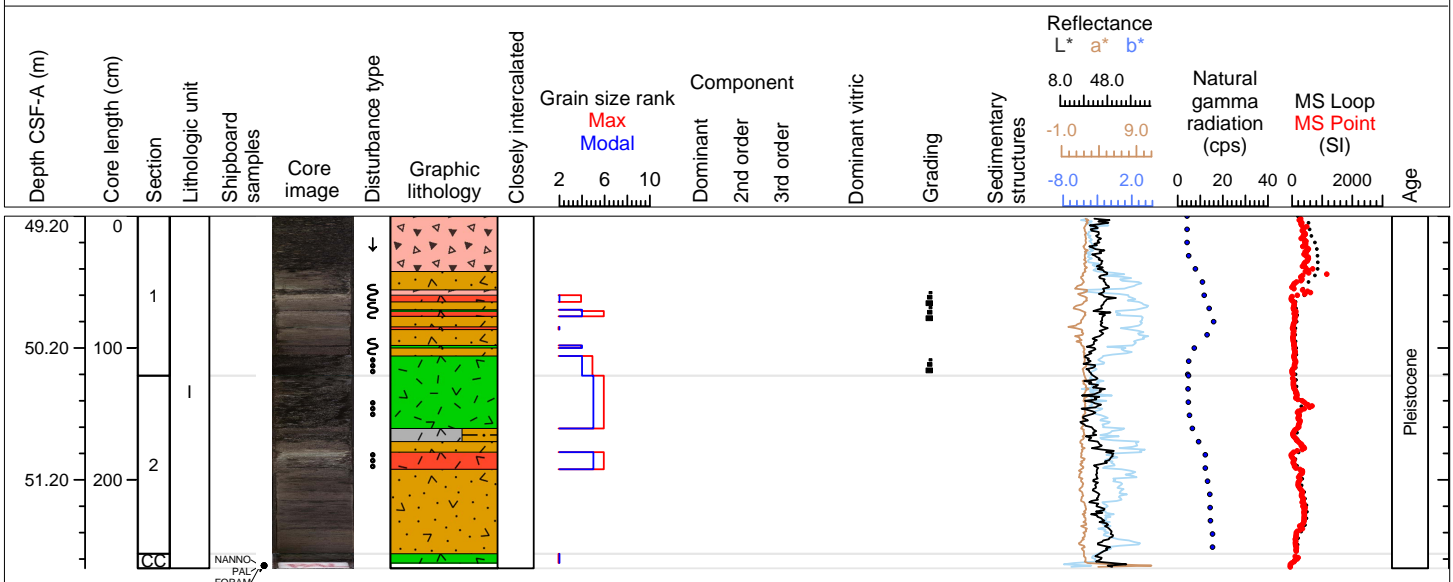


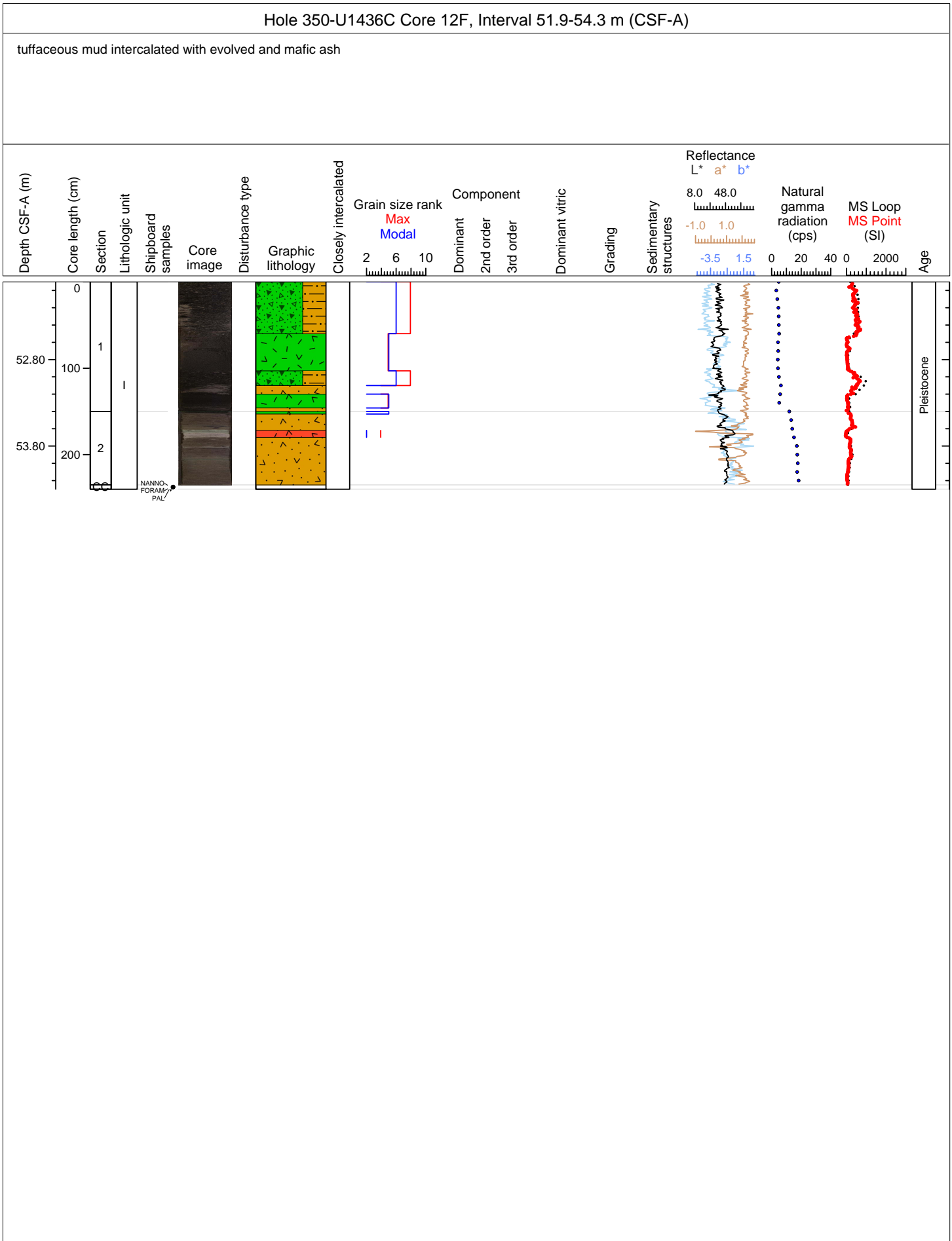


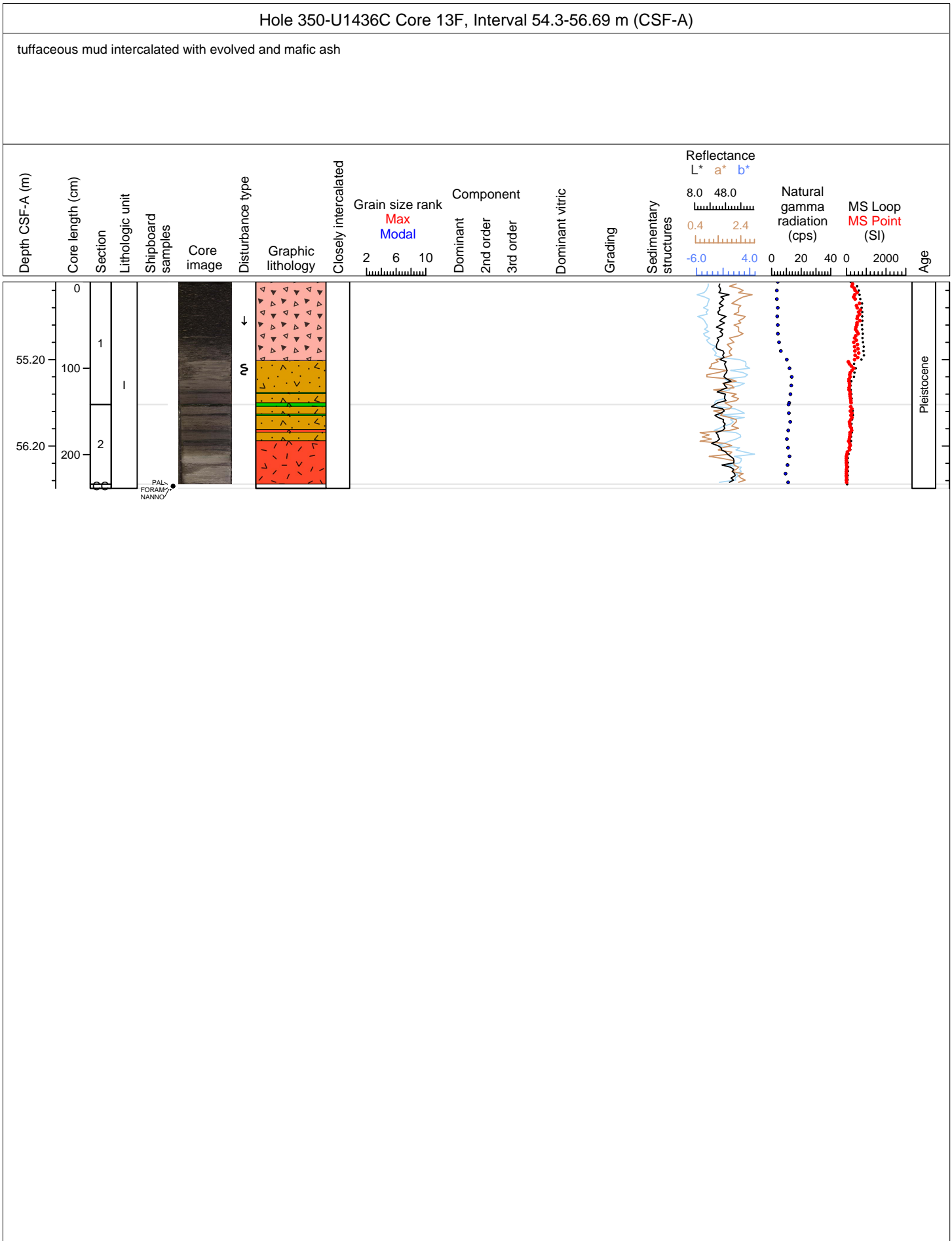


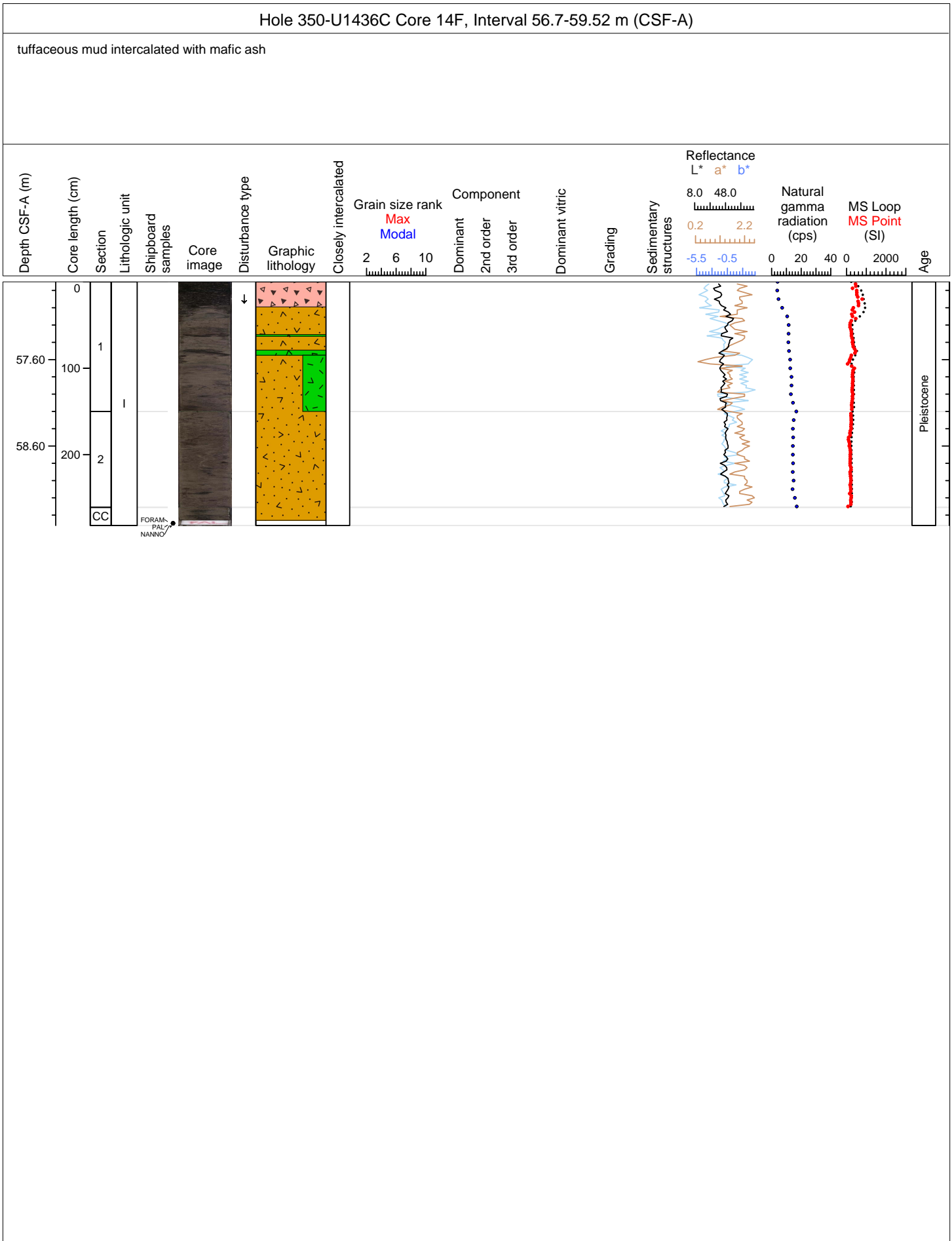
Hole 350-U1436C Core 11F, Interval 49.2-51.87 m (CSF-A)

mafic ash with tuffaceous mud and evolved ash



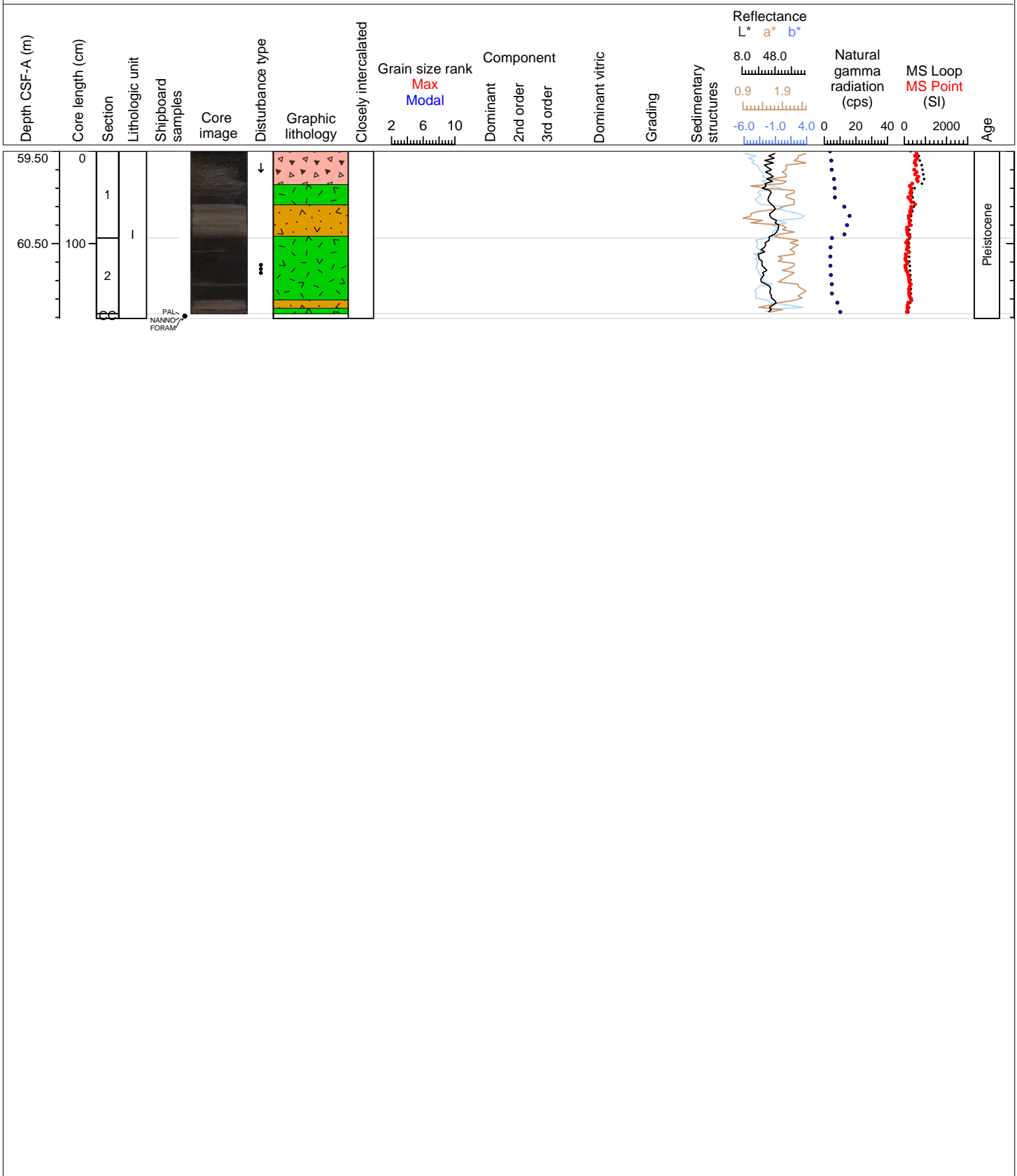




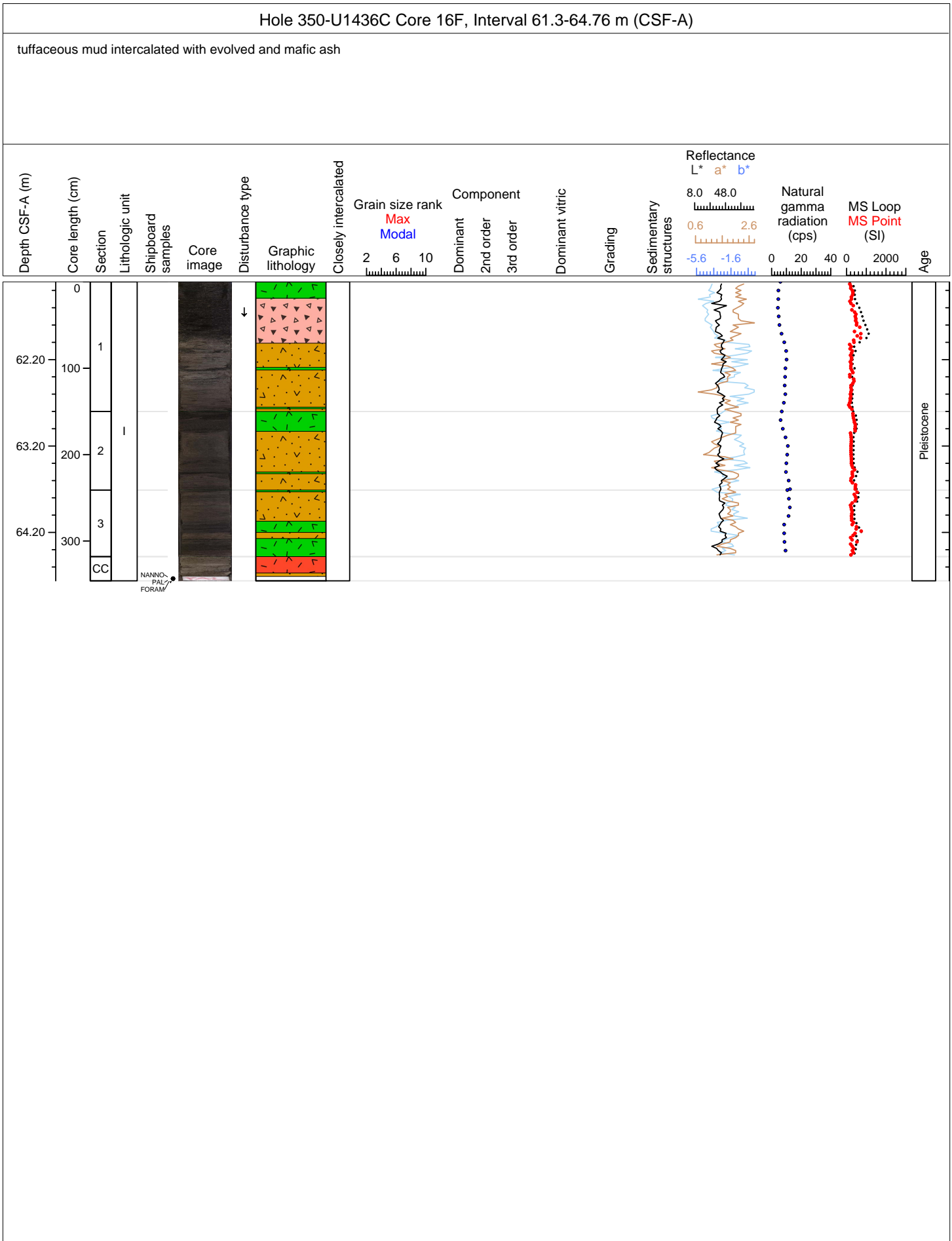


Hole 350-U1436C Core 15F, Interval 59.5-61.31 m (CSF-A)

tuffaceous mud intercalated with mafic ash

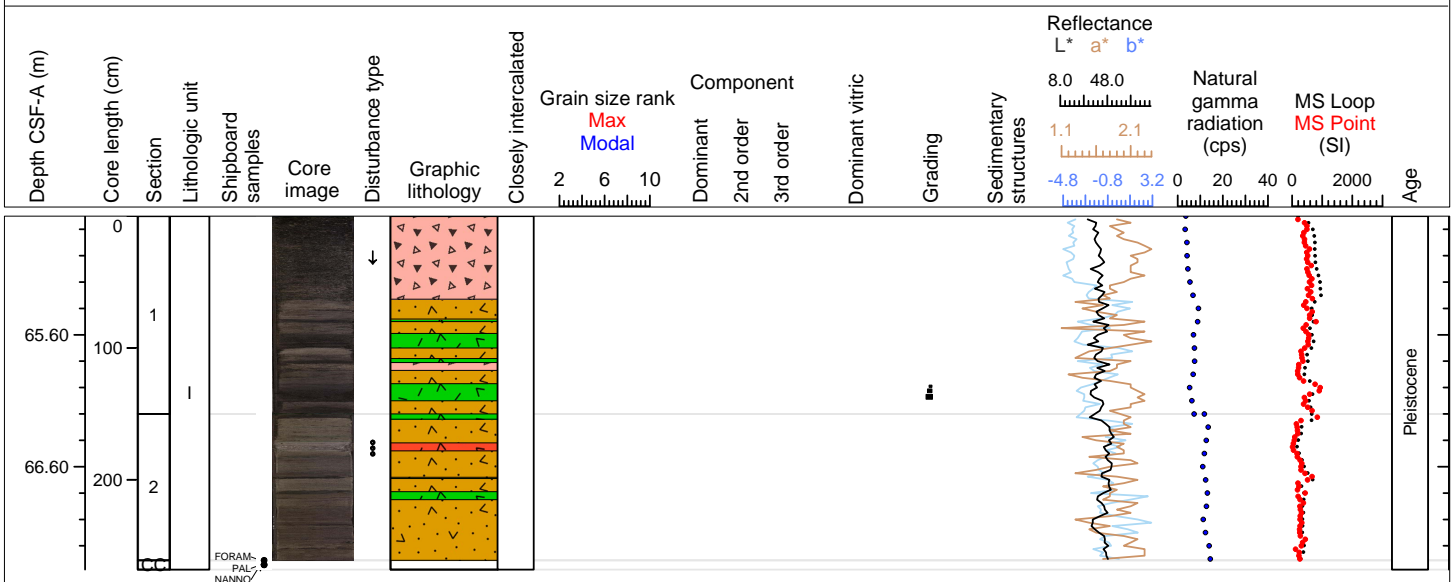


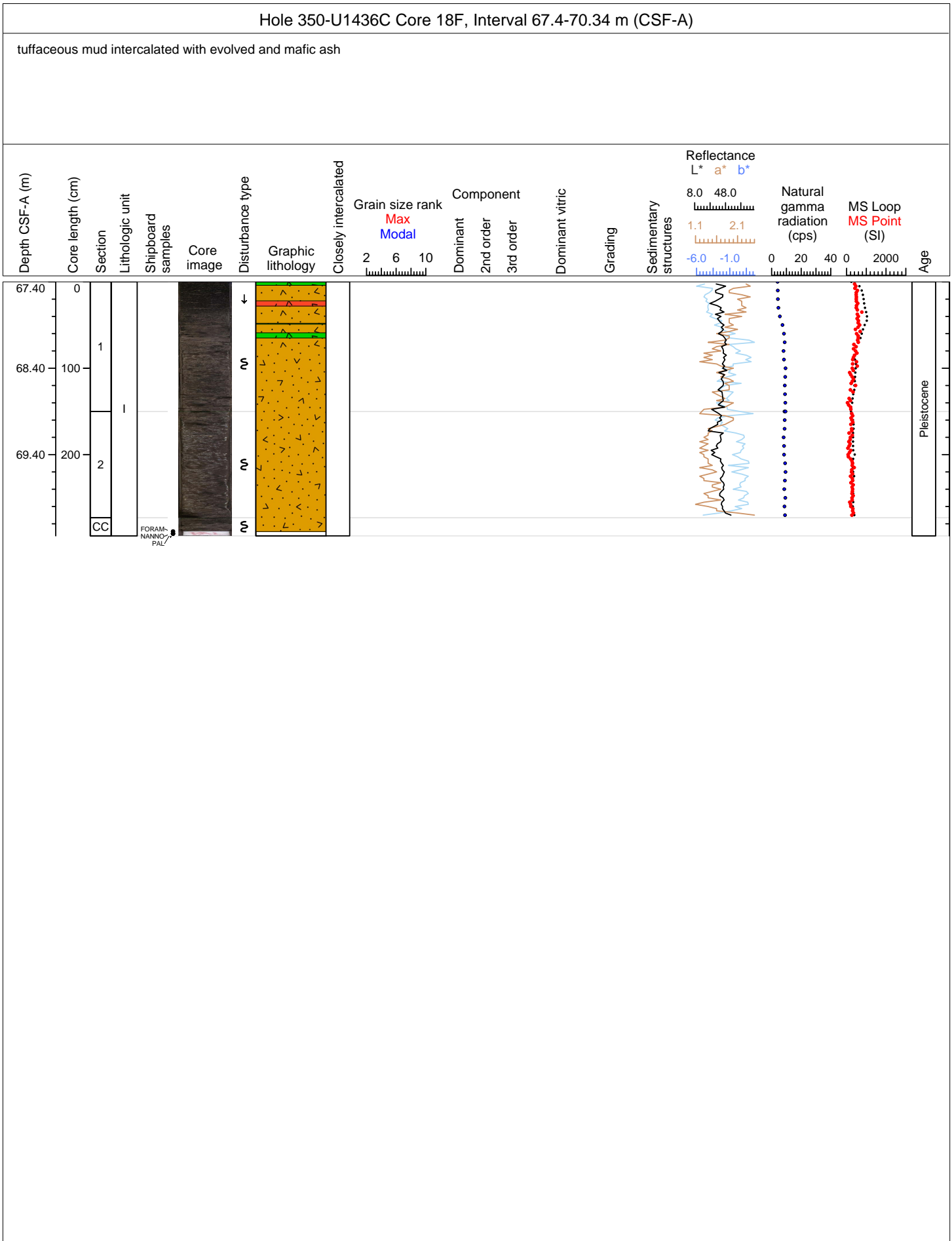


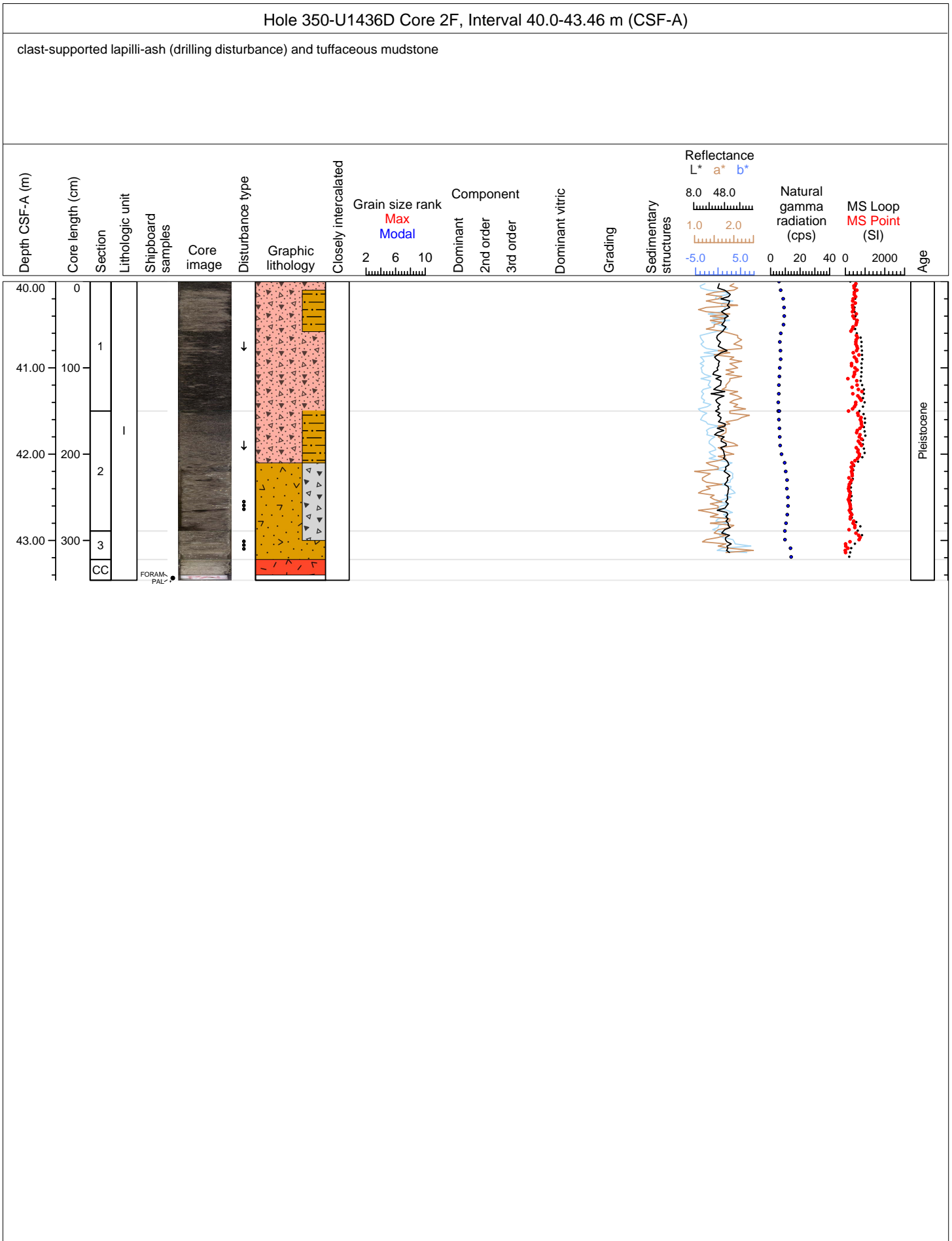


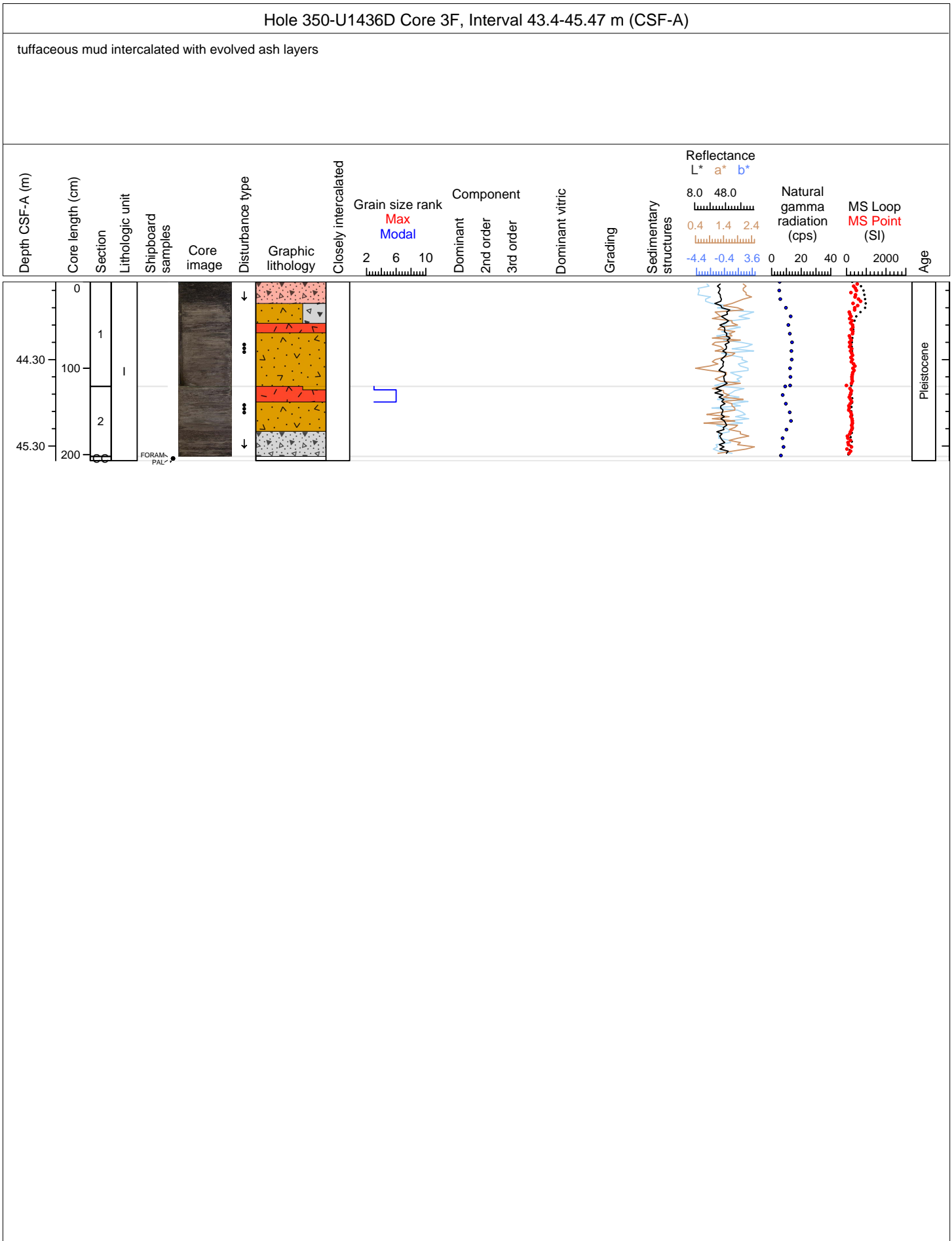
Hole 350-U1436C Core 17F, Interval 64.7-67.38 m (CSF-A)

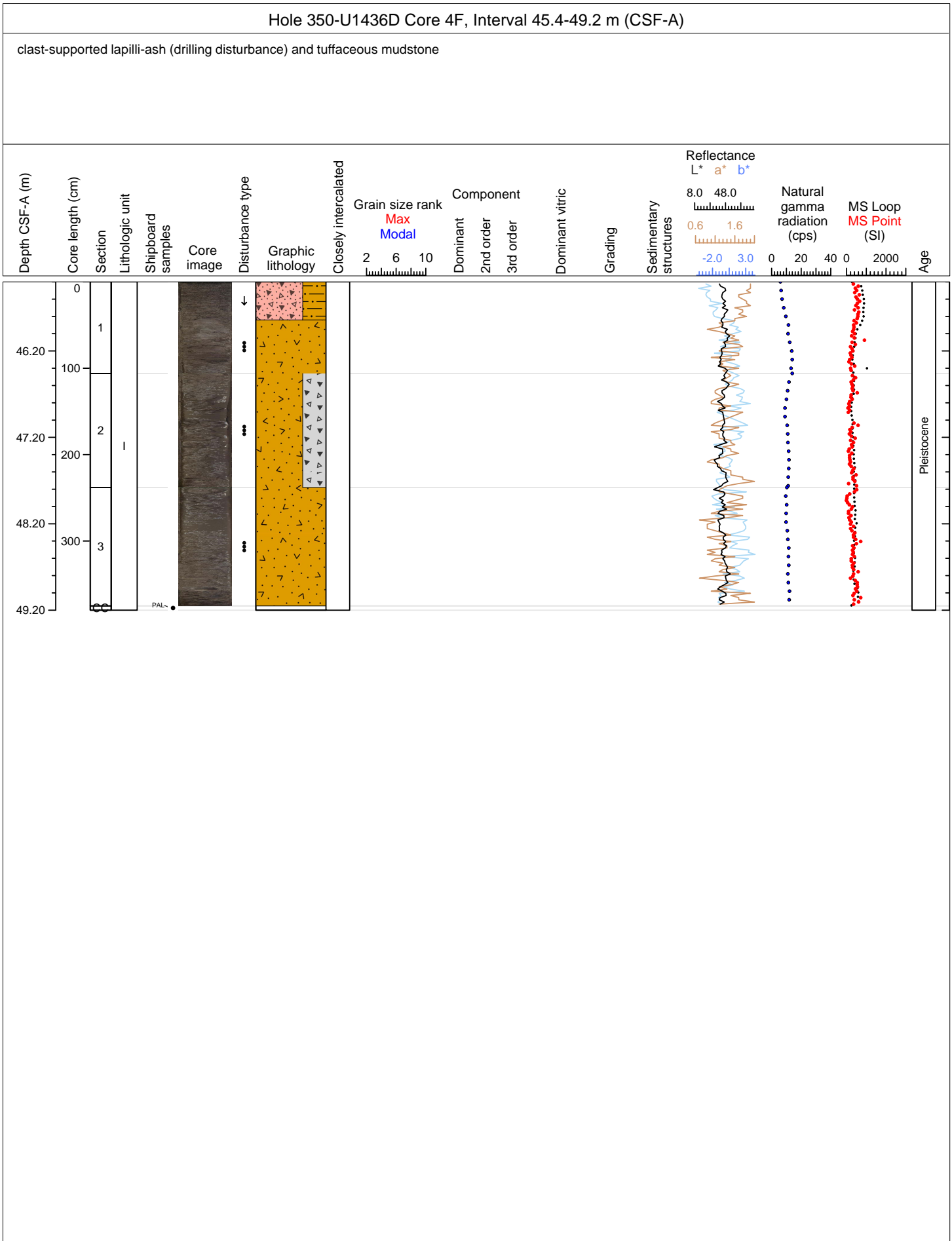
tuffaceous mud intercalated with mafic ash

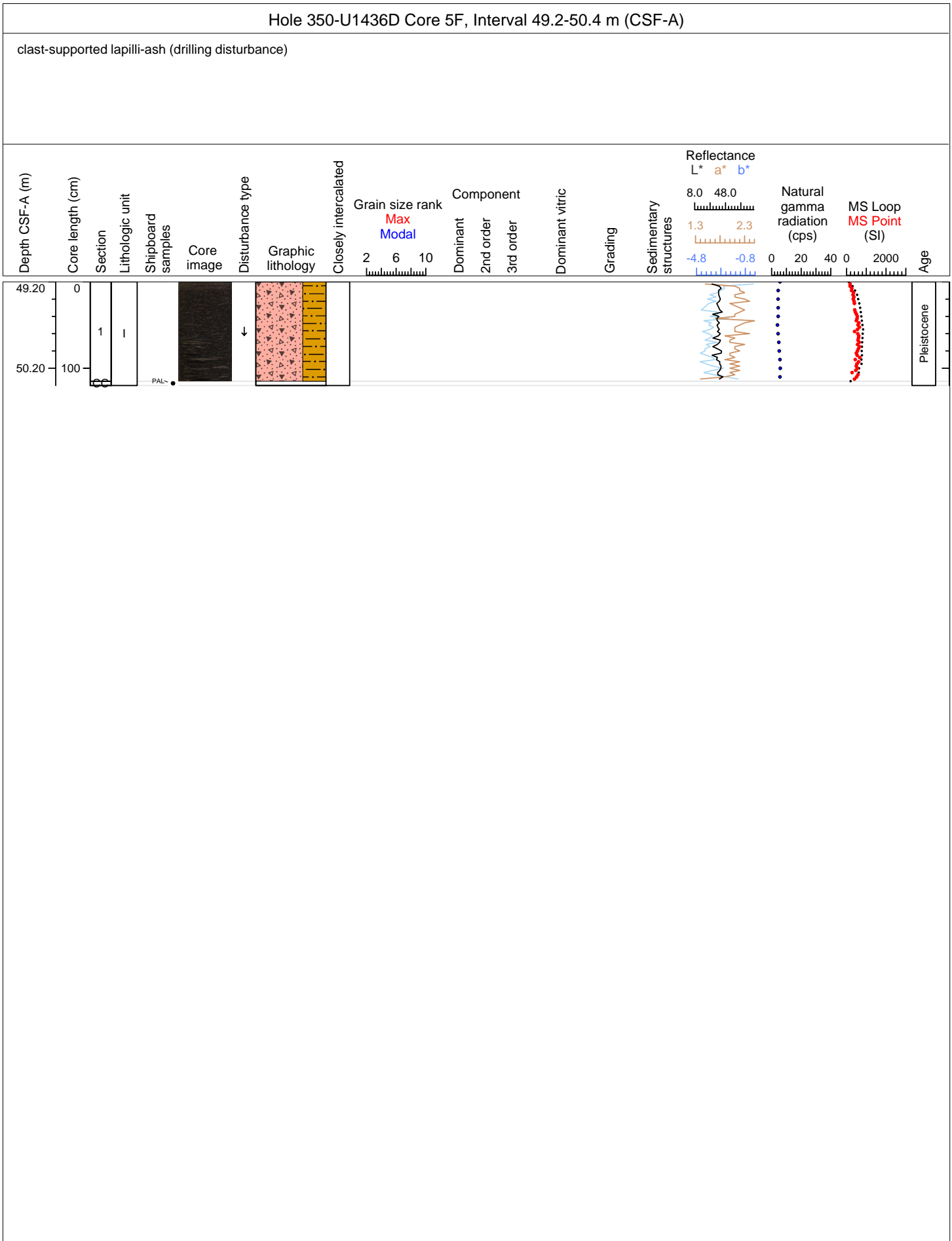


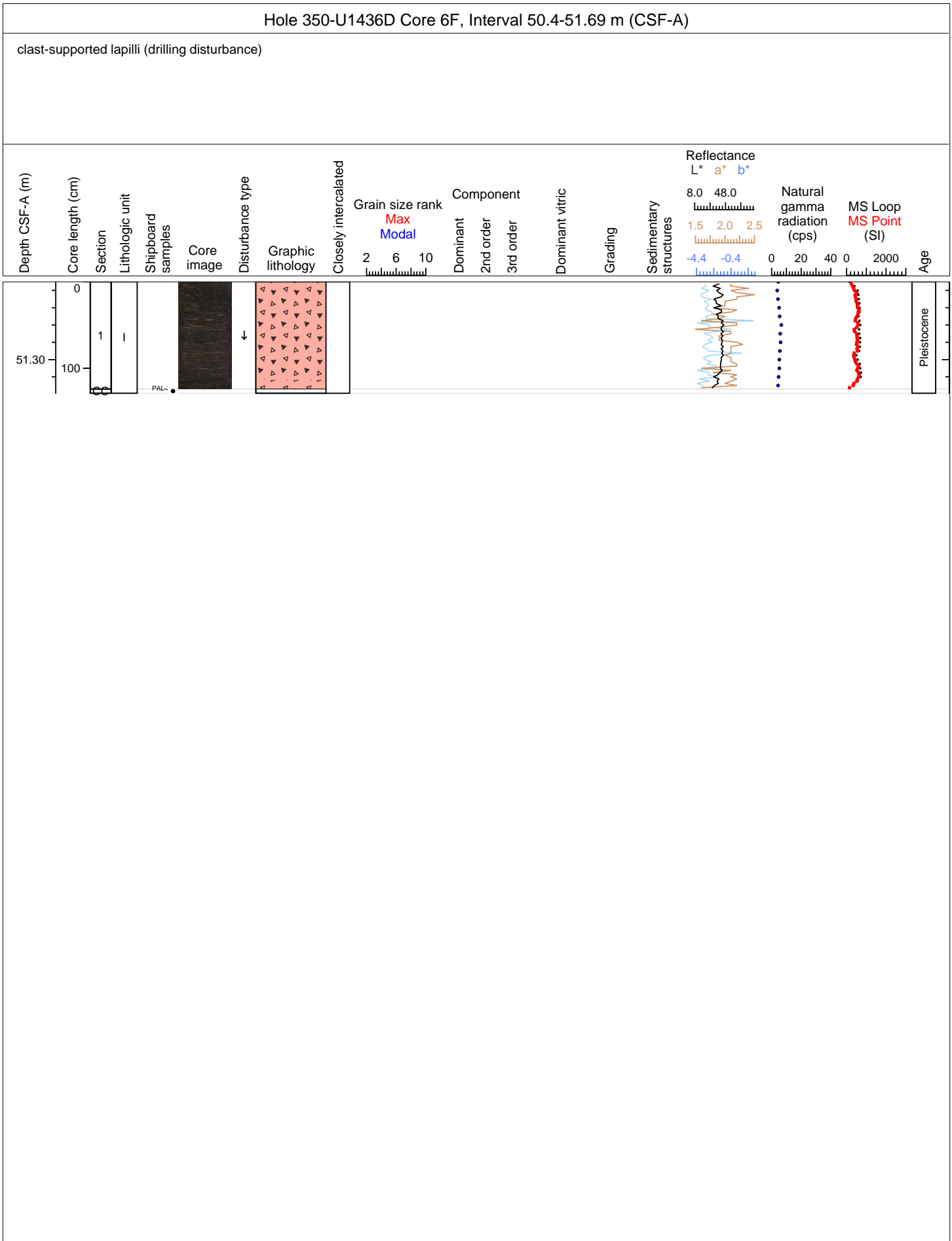




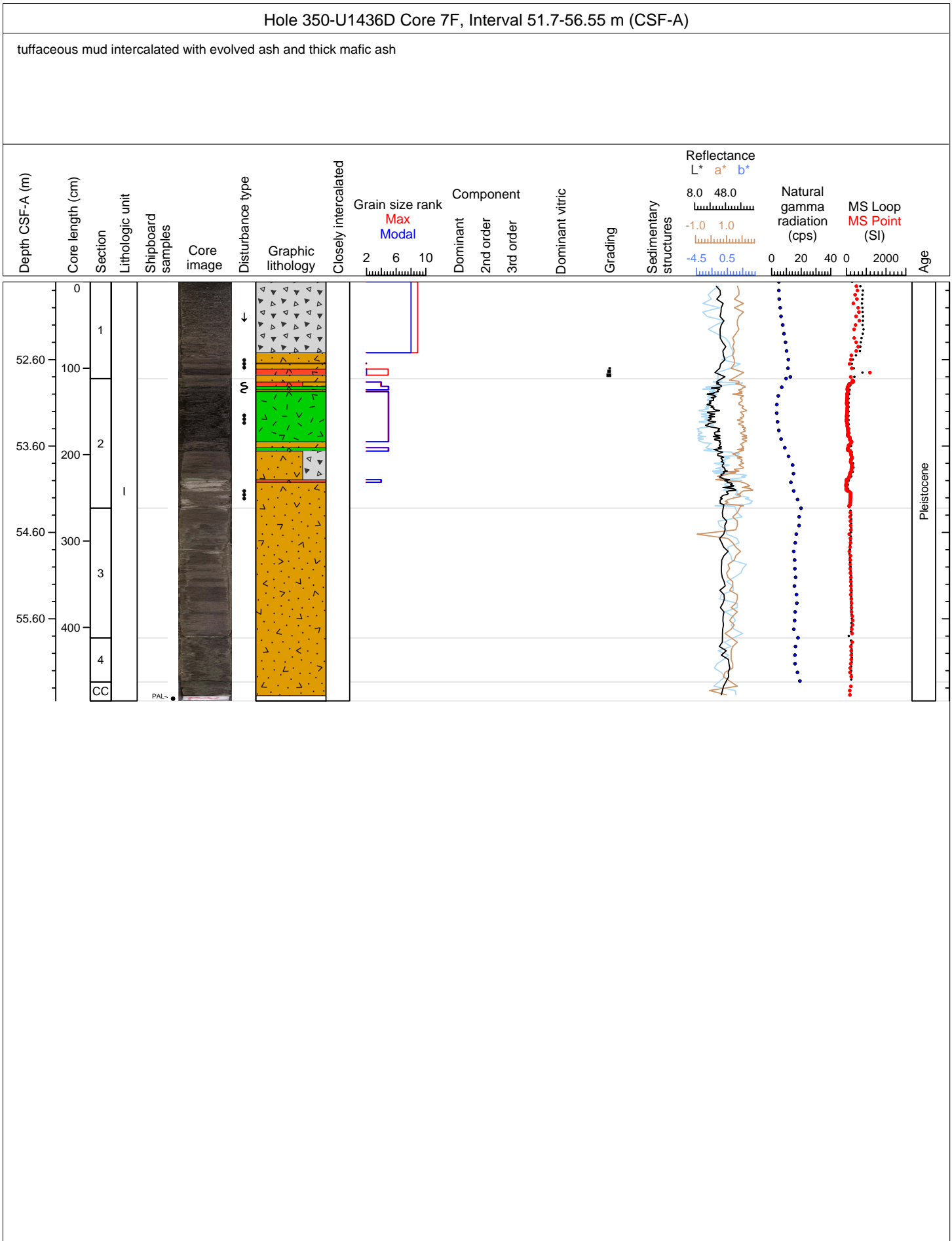


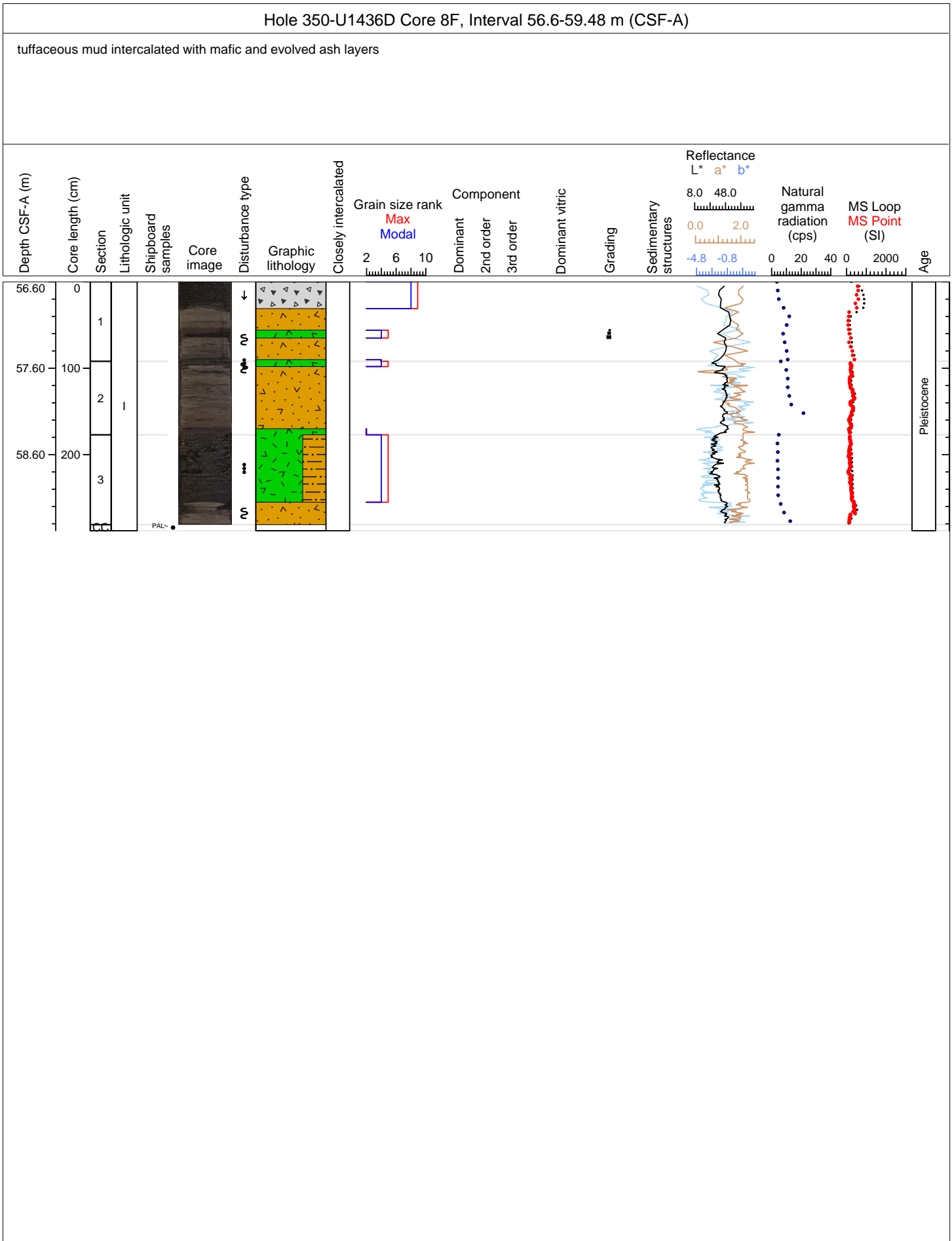


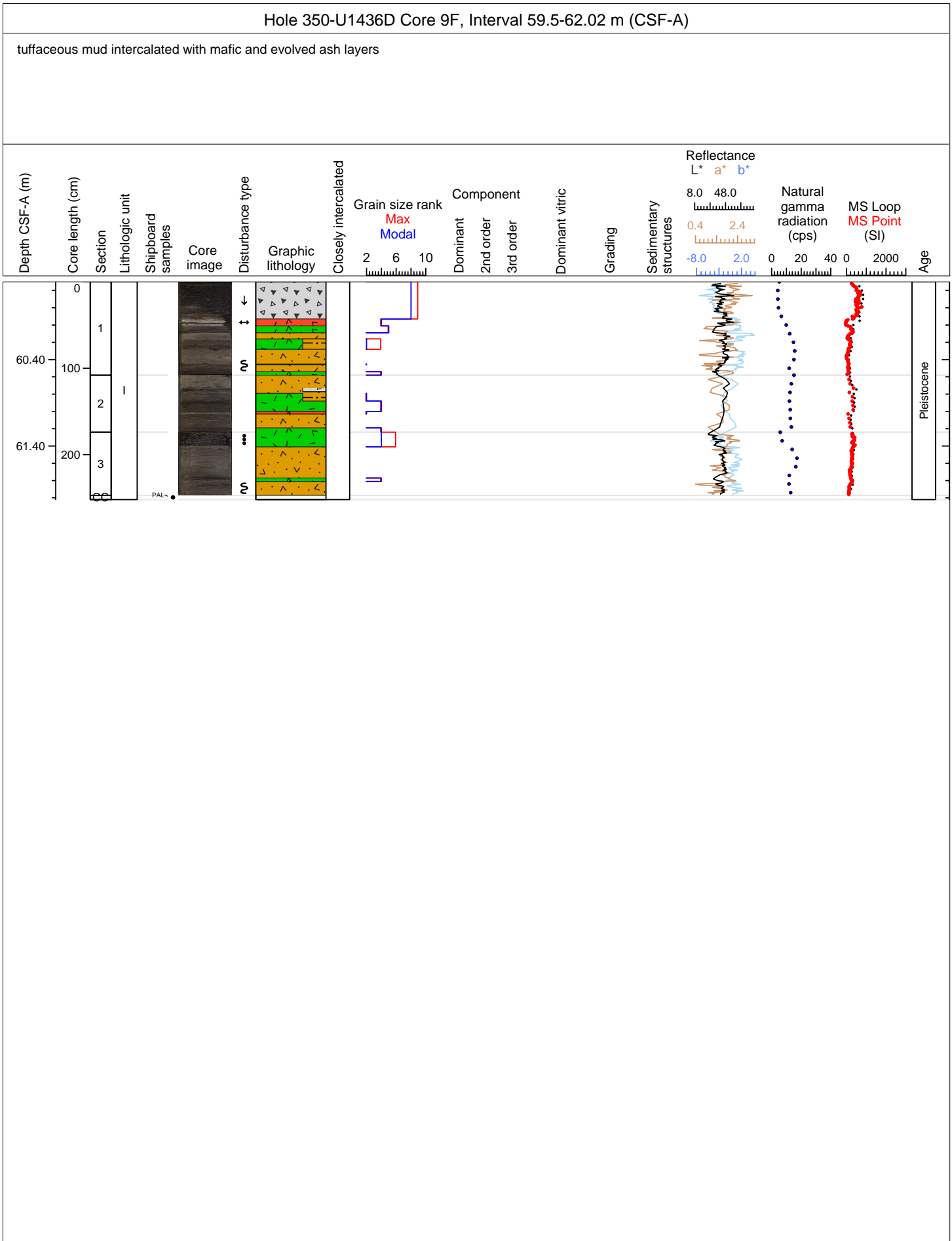












Sample	Top Depth [m]	Bottom Depth [m]	Lithology prefix	Principal lithology	Lithology suffix	Complete lithology name	Ash [%]	Siliclastic [%]	Mineral grain roundness	Ash grain roundness	Mafic tephra abundance	Felsic tephra abundance	Lithic grains abundance	Glass abundance	Palagonite abundance	Feldspar abundance	Oxide abundance	Radiolarians abundance	General comment
350-U1436A-8H-2-W 36/37-SED	51.94	51.95	mafic	ash		mafic ash	100			very angular	D			D		R			
350-U1436A-8H-3-W 35/36-SED	53.33	53.34	mafic	ash		mafic ash	100			very angular	D			D		R			

Sample	Top Depth [m]	Bottom Depth [m]	Lithology prefix	Principal lithology	Lithology suffix	Complete lithology name	Ash [%]	Siliclastic [%]	Mineral grain roundness	Ash grain roundness	Mafic tephra abundance	Feisic tephra abundance	Lithic grains abundance	Glass abundance	Palagonite abundance	Feldspar abundance	Oxide abundance	Radiolarians abundance	General comment
350-U1436B-1H-2-A 23/24-SED	1.73	1.74	evolved	ash		evolved ash	98	2	angular	angular		D				C	R		
350-U1436B-13H-1-W 86/87-SED	58.46	58.47	mafic	ash		mafic ash	100		angular	angular	D	Tr	Tr		R			Tr	

THIN SECTION LABEL ID: **350-U1436A-1H-1-W 126/127-TSB-TS\_01** Thin section no.: 1  
 Unit/Subunit: Piece no.: Observer: DeBari  
 Thin section summary: Thin section shows evidence of magma mingling between a host, devitrified glass and two types of magmatic inclusions. The first is a coarsely cpx-plag phyric basalt, the second is a vesicular and partially devitrified andesite. Both are included in a devitrified, non vesicular andesite



SEDIMENT									
Dominant particles:			2nd order particles:				3rd order particles:		
Grain Type	Dominant grains	Dominant roundness	Dominant max size (mm)	2nd order grains	2nd order roundness	2nd order max size (mm)	3rd order grains	3rd order roundness	3rd order max size (mm)
Vitric			-----			-----			-----
Lithic	igneous, evolved	sub-rounded	-----			-----			-----
Crystal									

Clast Type	Dominant clasts	Dominant clast roundness	2nd order clasts	2nd order clast roundness	3rd order clasts	3rd order clast roundness
Vitric	pumice	sub-rounded				
Lithic	igneous, evolved	sub-rounded				

**PRIMARY (IGNEOUS) MINERALOGY**

Sample domain name: **Inclusion1** Domain no.: 1 Domain rel. abundance (%): 30

Lithology:	highly augite-plagioclase phyric basalt inclusion	Texture:	hypocrystalline
Grain size:	cryptocrystalline	Grain size distribution:	bimodal

Phenocrysts	Present [%]	Size mode (mm)	Comments
Plagioclase	20	2	twinning
Clinopyroxene	5	0.4	

Sample domain name: **Inclusion 2** Domain no.: 2 Domain rel. abundance (%): 55

Lithology:	sparsely plagioclase phyric andesite inclusion	Texture:	hypocrystalline
Grain size:	cryptocrystalline	Grain size distribution:	bimodal

Phenocrysts	Present [%]	Size mode (mm)	Comments
Plagioclase	2	0.5	one large phenocryst 2.4 mm in one clast

Sample domain name: **matrix**

Domain no.: 3

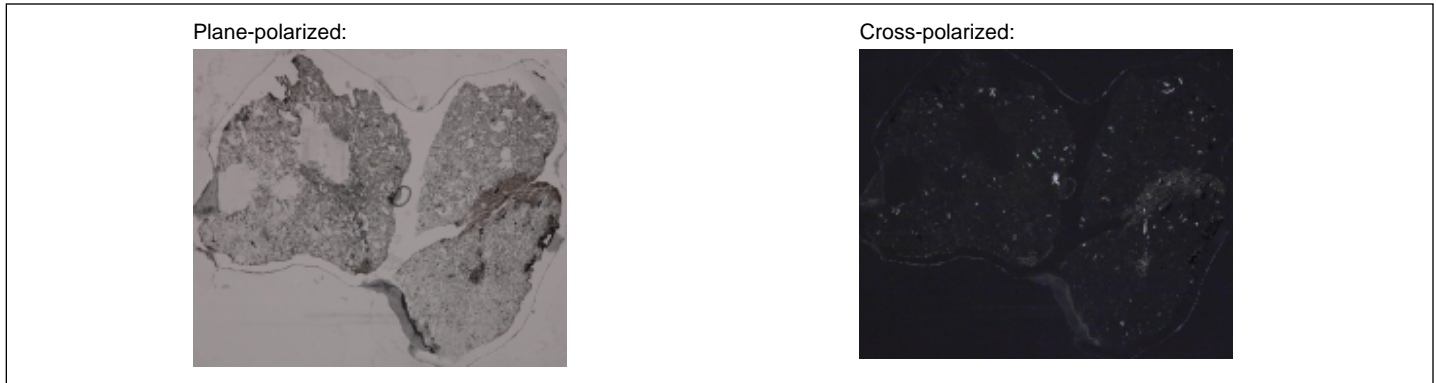
Domain rel. abundance (%): 15

Lithology:	aphyric andesite host magma	Texture:	aphanitic
Grain size:	microcrystalline	Grain size distribution:	equigranular

**SECONDARY (ALTERATION) MINERALOGY**

Alteration Domain	Original [%]	Altered [%]	DOMINANT	2nd Order	3rd Order	Comments
Groundmass			carbonate	zeolite		

THIN SECTION LABEL ID: **350-U1436A-2H-1-W 86/86-TSB-TS\_02** Thin section no.: 2  
 Unit/Subunit: Piece no.: Observer: DeBari  
 Thin section summary: Pumice dropstone in "mud with ash". Fresh glassy, sparsely phyric vesicular andesite with fine grained phenocrysts of plagioclase and lesser orthopyroxene and clinopyroxene



**SEDIMENT**

Dominant particles: microfossil      2nd order particles: crystal      3rd order particles: lithic

Grain Type	Dominant grains	Dominant roundness	Dominant max size (mm)	2nd order grains	2nd order roundness	2nd order max size (mm)	3rd order grains	3rd order roundness	3rd order max size (mm)
Vitric			-----			-----			-----
Lithic	igneous, evolved	sub-rounded	-----			-----			-----
Crystal	plagioclase	subhedral	0.2						

Clast Type	Dominant clasts	Dominant clast roundness	2nd order clasts	2nd order clast roundness	3rd order clasts	3rd order clast roundness
Vitric	pumice	sub-rounded				
Lithic						

**PRIMARY (IGNEOUS) MINERALOGY**

Lithology:	sparsely orthopyroxene-plagioclase phyric andesite pumice clasts	Texture:	hypocrystalline
Grain size:	cryptocrystalline	Grain size distribution:	bimodal

Phenocrysts	Present [%]	Size mode (mm)	Comments
Plagioclase	3	0.5	
Clinopyroxene	1	0.5	
Orthopyroxene	1	0.5	

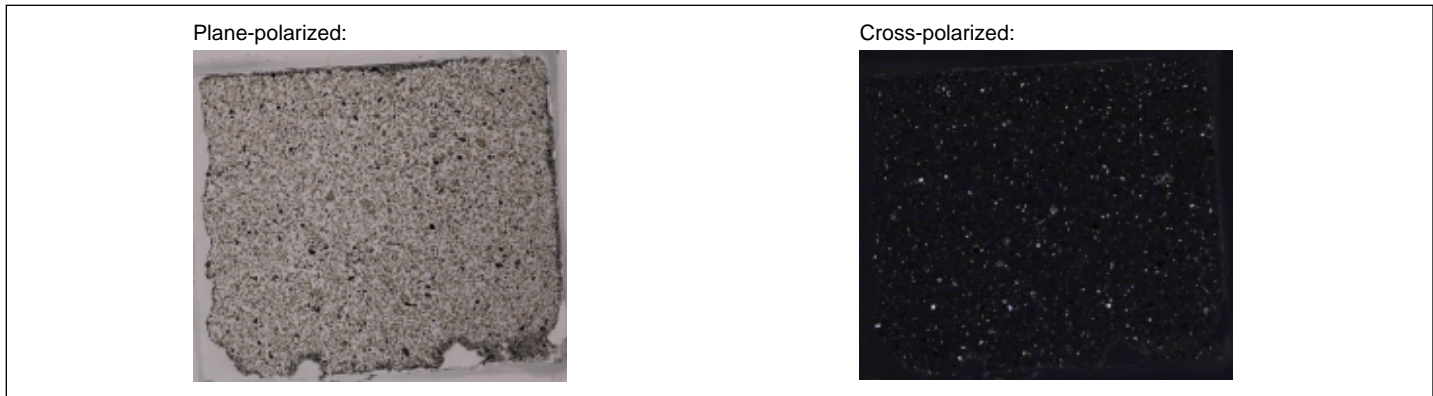
**SECONDARY (ALTERATION) MINERALOGY**

Mineral	Original [%]	Altered [%]	DOMINANT	2nd ORDER	3rd ORDER	Comment
Glass			zeolite			

Vesicles original (%)	Vesicle fill (%)	Vesicle fill dominant	Vesicle fill 2nd order	Vesicle fill 3rd order	Vesicle fill comment
		zeolite			



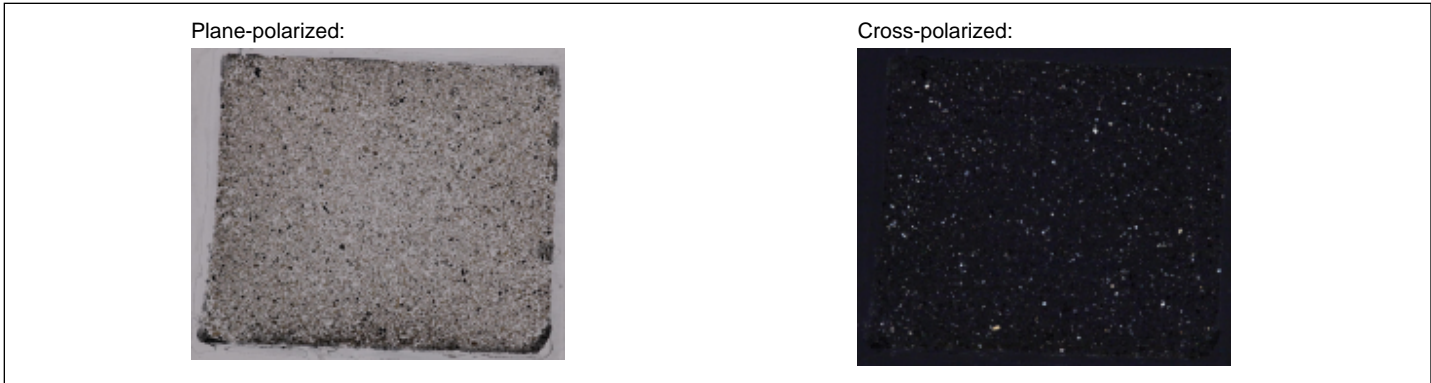
THIN SECTION LABEL ID:	<b>350-U1436A-8H-2-W 97/99-TSB-TS_03</b>	Thin section no.:	3
Unit/Subunit:	Piece no.:	Observer:	DeBari
Thin section summary:	Fresh basalt glass, multiple fragments, some have microlites of plagioclase, a lesser number have clinopyroxene microlites		



<b>SEDIMENT</b>									
<b>General domain comment:</b> fresh glass, some shards microcrystalline									
<b>Dominant particles:</b> vitric <b>2nd order particles:</b> crystal <b>3rd order particles:</b>									
Grain Type	Dominant grains	Dominant roundness	Dominant max size (mm)	2nd order grains	2nd order roundness	2nd order max size (mm)	3rd order grains	3rd order roundness	3rd order max size (mm)
Vitric	glass shards	angular	-- -- -- --			-- -- -- --			-- -- -- --
Lithic			-- -- -- --			-- -- -- --			-- -- -- --
Crystal	plagioclase	subhedral	0.1	clinopyroxene	subhedral	0.1			

<b>SECONDARY (ALTERATION) MINERALOGY</b>						
Mineral	Original [%]	Altered [%]	DOMINANT	2nd ORDER	3rd ORDER	Comment
Glass			devitrification			
Vesicles original (%)	Vesicle fill (%)	Vesicle fill dominant	Vesicle fill 2nd order	Vesicle fill 3rd order	Vesicle fill comment	
		zeolite				

THIN SECTION LABEL ID: **350-U1436A-8H-3-W 61/62-TSB-TS\_05** Thin section no.: 5  
 Unit/Subunit: Piece no.: Observer: NICH  
 Thin section summary: Fragments of basaltic glass and crystals (fp and cpx). Glass fragments fresh, some containing fp and cpx microphenocrysts, some others completely microcrystalline.



<b>SEDIMENT</b>									
<b>General domain comment:</b> fresh glass, microcrystalline in places									
<b>Dominant particles:</b> vitric <span style="margin-left: 100px;"><b>2nd order particles:</b> crystal</span> <span style="margin-left: 100px;"><b>3rd order particles:</b></span>									
Grain Type	Dominant grains	Dominant roundness	Dominant max size (mm)	2nd order grains	2nd order roundness	2nd order max size (mm)	3rd order grains	3rd order roundness	3rd order max size (mm)
Vitric	glass shards	angular	-- -- -- -- --			-- -- -- -- --			-- -- -- -- --
Lithic			-- -- -- -- --			-- -- -- -- --			-- -- -- -- --
Crystal	plagioclase	subhedral	0.1	clinopyroxene	anhedral	0.1			