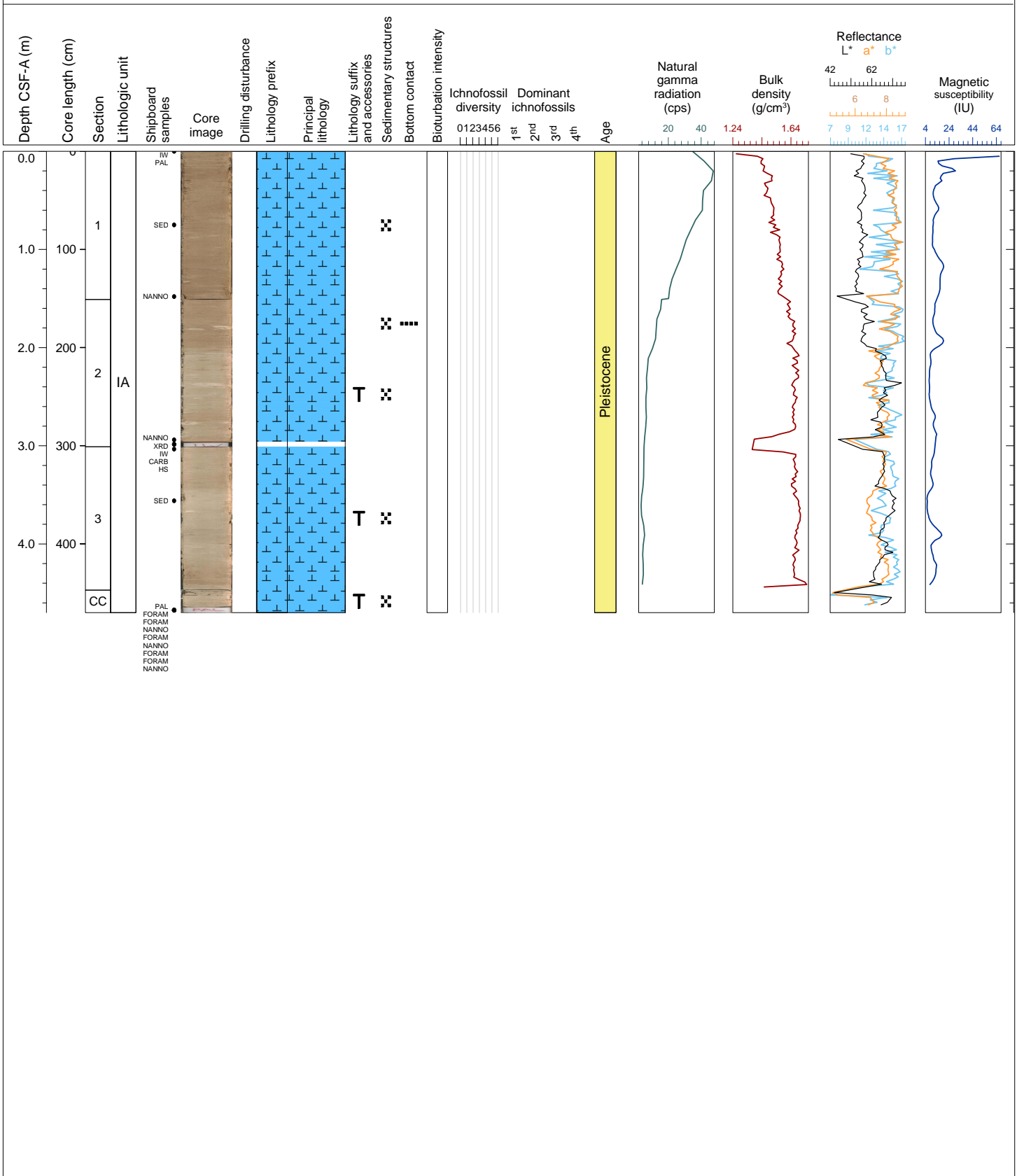


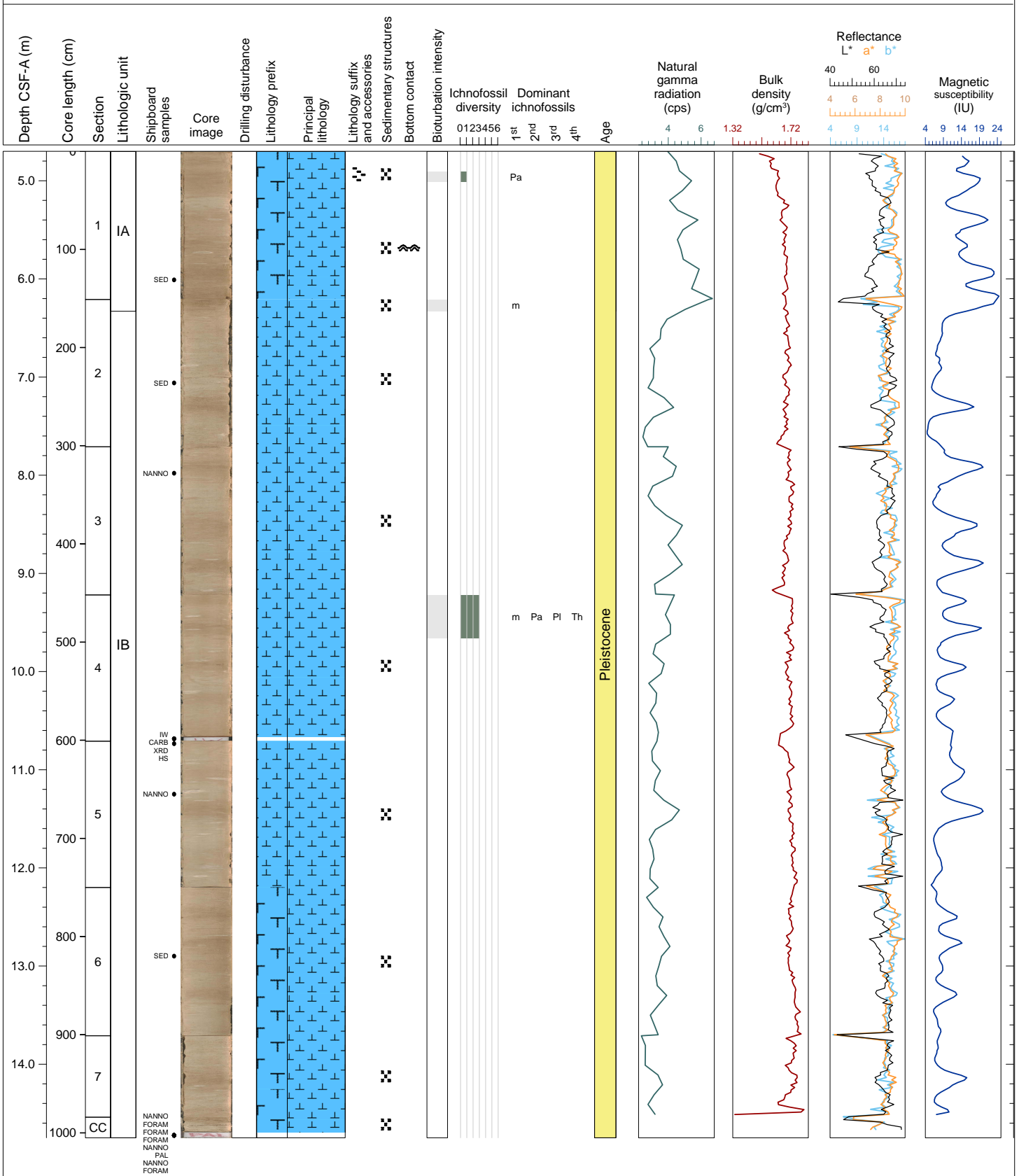
Hole 395E-U1560A Core 1H, Interval 0.0-4.7 m (CSF-A)

Core 1H in Hole U1560A consists of light brown (7.5YR 6/3) nannofossil ooze with clay in the upper 2 meters with pinkish white (7.5YR 8/2) nannofossil ooze with foraminifera to the bottom of the core. Lithology contacts are subangular to gradational and horizontal. Pinkish white halos are observed in the lower 2 meters of this core. Mottling is common and pervasive within this core. No drilling disturbances were observed.



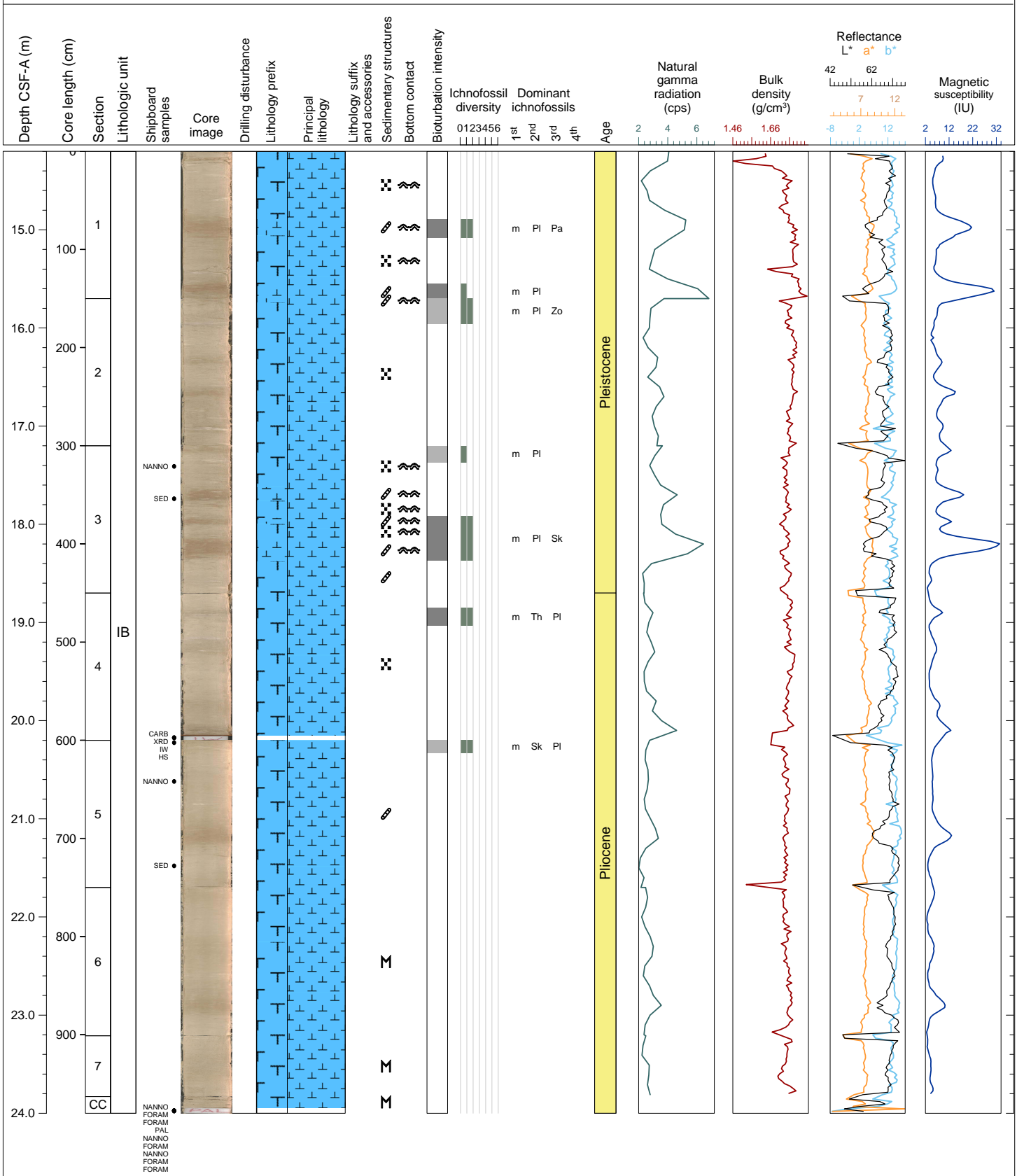
Hole 395E-U1560A Core 2H, Interval 4.7-14.75 m (CSF-A)

Core U1560A-2H consists of pinkish white (7.5YR 8/2) nannofossil ooze with variable foraminiferal content ranging from common (10-25%) to abundant (25-50%) with two decimeter thick beds of foraminiferal ooze with clay in section 2. Lithologic contacts are sub-angular. Mottling is present albeit rare throughout this core. Biogenic mottling only occurs in a few decimeter thick beds that have a low bioturbation index (i.e., sparse). Distinct ichnogenera include Palaeophycus, Planolites, and Thalassinoides. Ichnogenera diversity ranges from 1 to 3 and the maximum diameter ranges from 6 to 10 mm. No drilling disturbances were observed in this core.



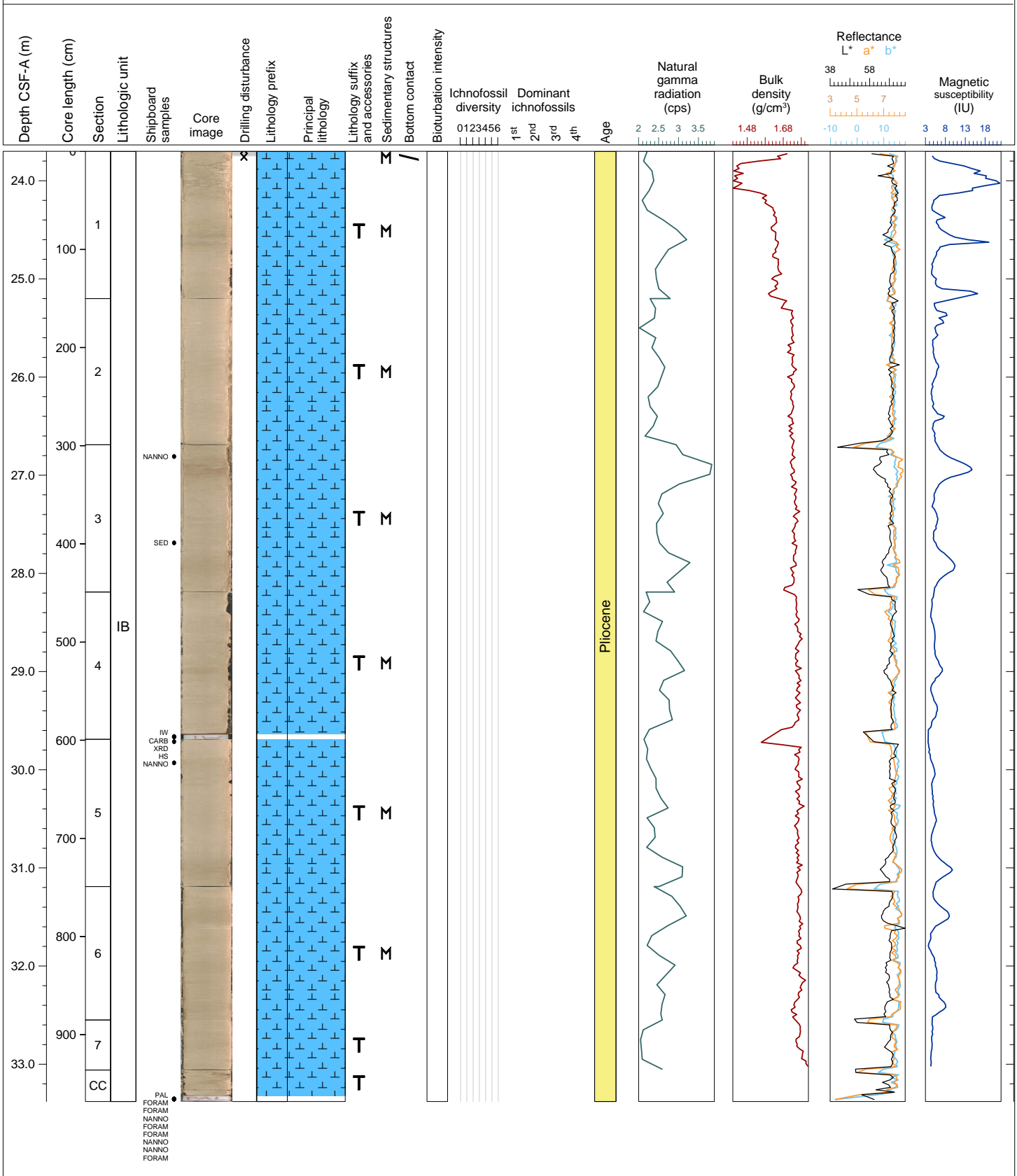
Hole 395E-U1560A Core 3H, Interval 14.2-24.0 m (CSF-A)

Core U1560A-3H consists of pinkish white (7.5YR 8/2) foraminiferal nannofossil ooze with variable clay interbedded with decimeter-thick beds of pink (7.5YR 7/4) nannofossil ooze with clay and foraminifera. Lithologic contacts are mainly bioturbated and horizontal although a few are subangular. Mottling is common throughout this core along with distinct burrows that occur within discrete decimeter thick beds sporadically throughout this core and include: Planolites, Thalassinoides, Skolithos, and Zoophycos. Diversity ranges from 1 to 2 ichnogenera and the maximum diameter ranges from 1 to 12 mm. No drilling disturbances were observed.



Hole 395E-U1560A Core 4H, Interval 23.7-33.38 m (CSF-A)

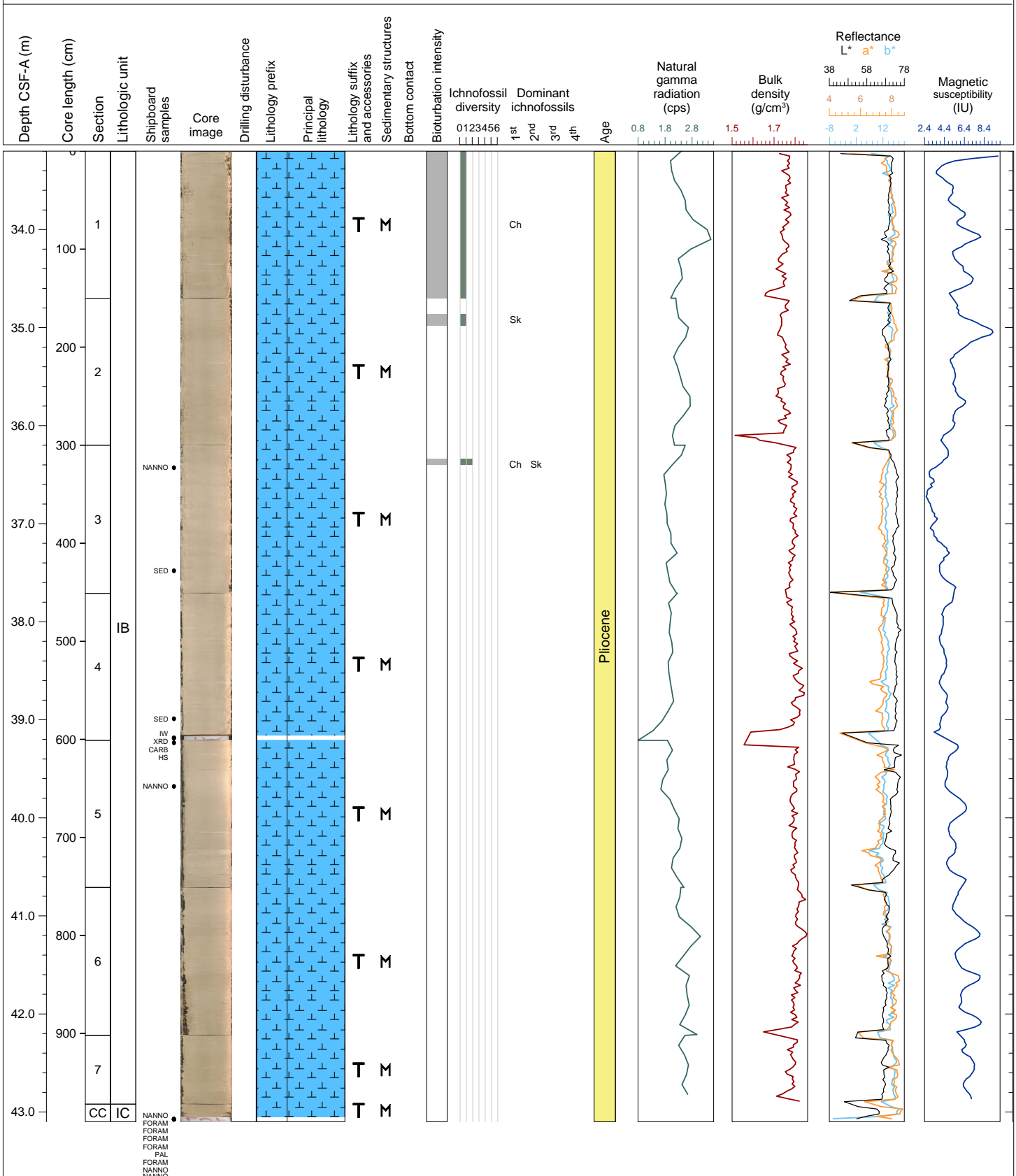
Core U1560A-4H consists of pinkish white (7.5YR 8/2) nannofossil ooze with foraminifera with variable clay content ranging from <10% to 10-25%. Lithologic contacts are subangular with massive bedding being the dominant sedimentary structure. Bioturbation is mainly absent in this core. No drilling disturbances were observed in this core.





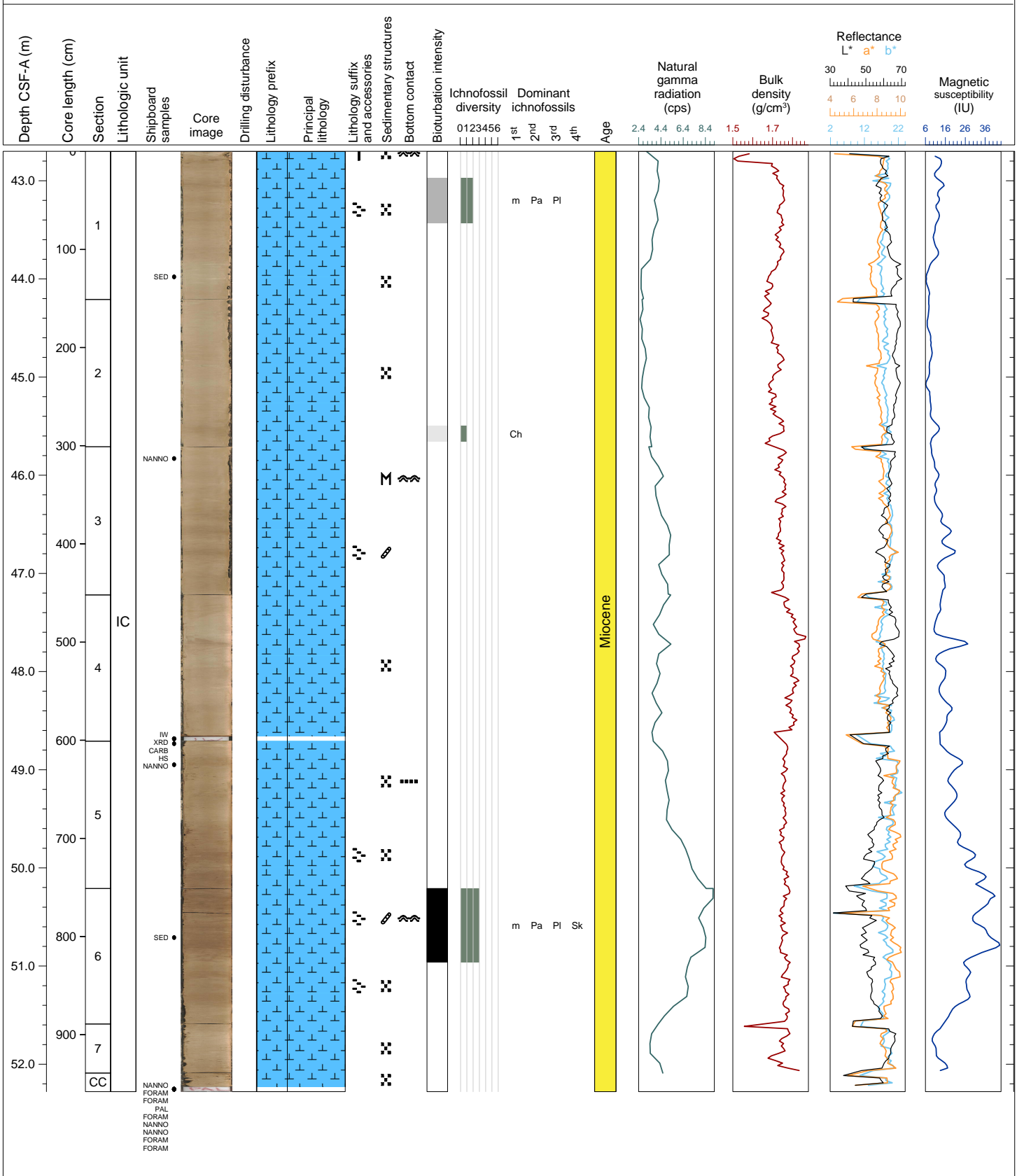
Hole 395E-U1560A Core 5H, Interval 33.2-43.1 m (CSF-A)

Core U1560A-5H consists of pinkish white (7.5YR 8/2) nannofossil ooze. Bedding is massive and mottling is mainly absent in this core except for a decimeter thick beds of low bioturbation intensity and a few ichnogenera that include Chondrites, Skolithos, Planolites, and Palaeophycus. Diversity ranges from 1 to 2 ichnogenera and the maximum diameter ranges from 1 to 4 mm. No drilling disturbances were observed in this core.



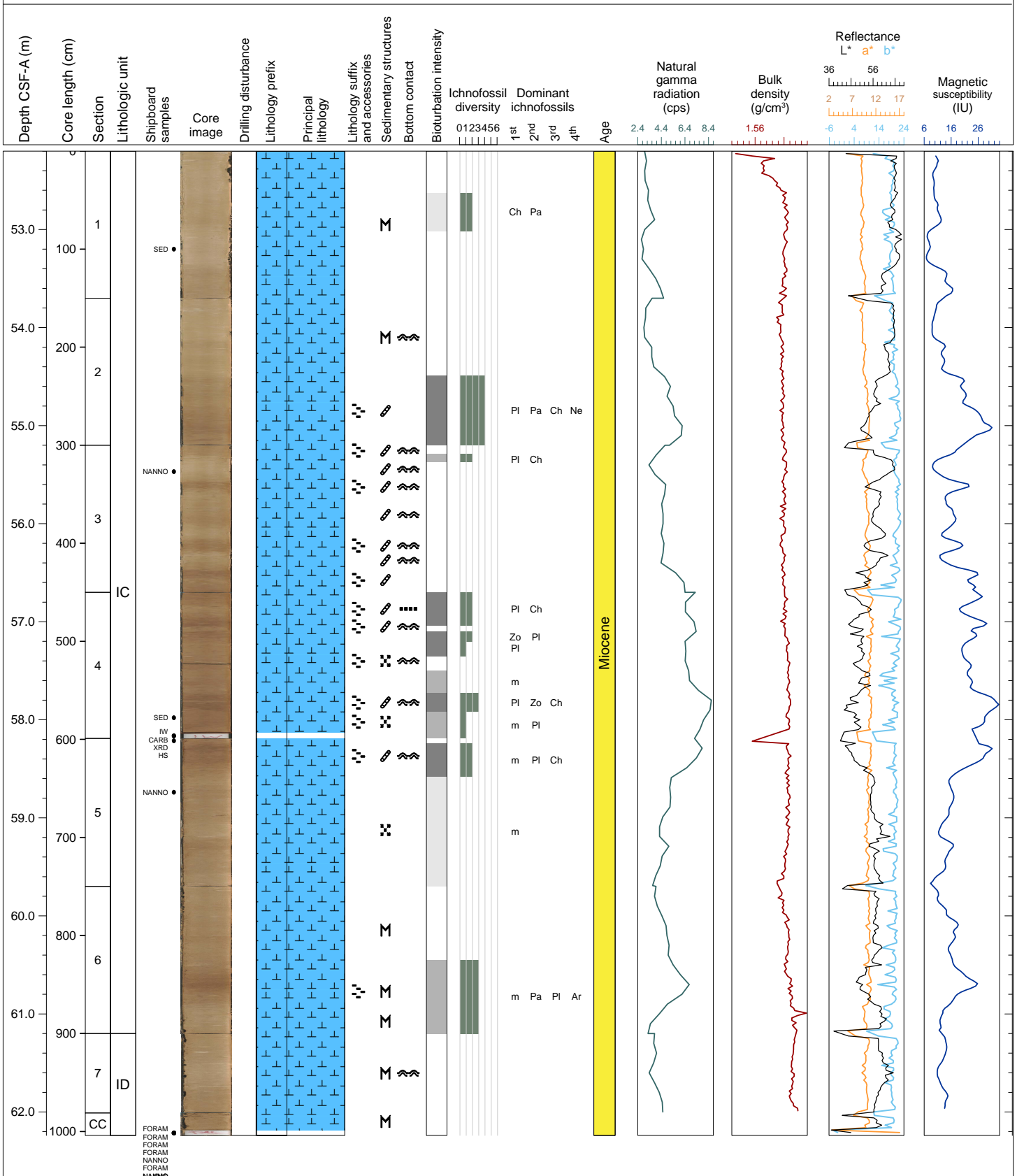
Hole 395E-U1560A Core 6H, Interval 42.7-52.28 m (CSF-A)

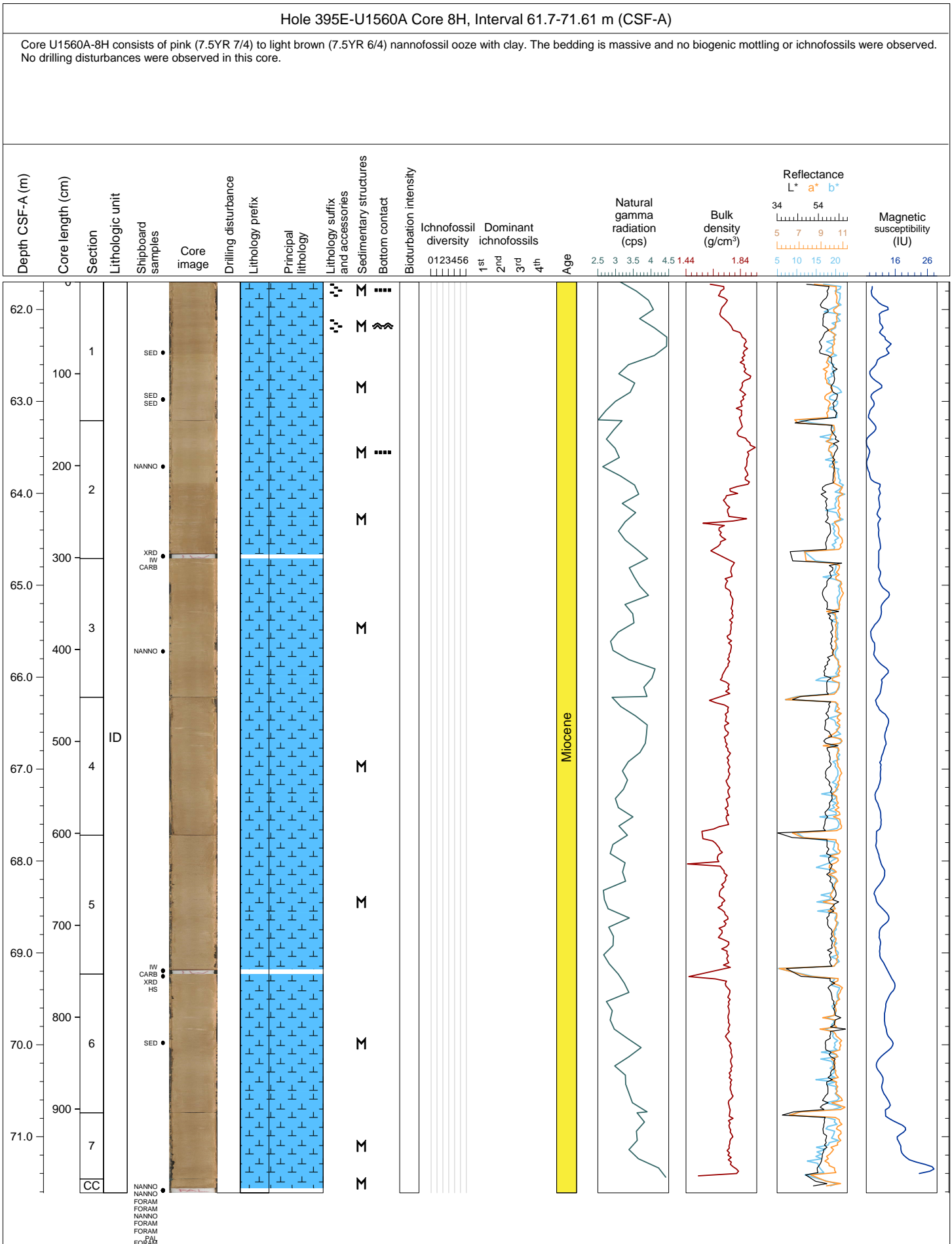
Core U1560A-6H consists of pinkish white (7.5YR 8/2) nannofossil ooze interbedded at the decimeter to meter scale with pink (5YR 7/4) to reddish brown (5YR 5/4) nannofossil ooze with clay. Lithologic contacts are generally subangular with mottling being pervasive throughout this core. Biogenic mottling only occurs rarely in this core in a few decimeter thick beds that includes distinct ichnogenera such as Palaeophycus, Planolites, Chondrites and Skolithos. Diversity ranges from 1 to 3 ichnogenera and the maximum diameter ranges from 1 to 6 mm. No drilling disturbances were observed in this core.



Hole 395E-U1560A Core 7H, Interval 52.2-62.24 m (CSF-A)

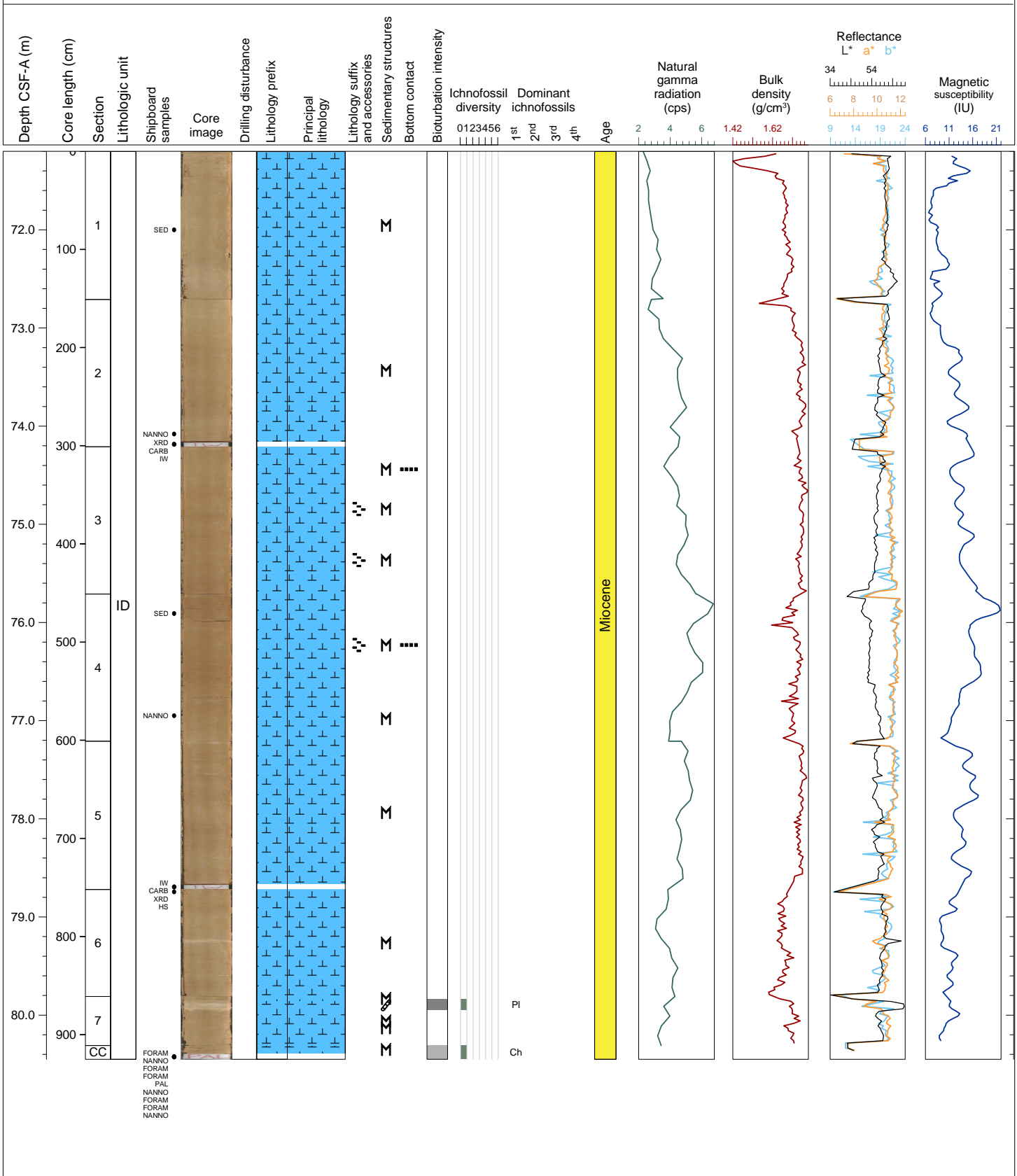
Core U1560A-7H consists of light brown (7.5YR 6/3) to brown (7.5YR 5/4) nannofossil ooze with clay and pinkish gray (7.5YR 7/2) nannofossil ooze. Mottling is dominant in this core with biogenic mottling being abundant in discrete decimeter beds throughout this core. Distinct ichnogenera include : Planolites, Chondrites, Palaeophycus, Zoophycus, and Nerites. Diversity ranges from 1 to 2 ichnogenera and the maximum diameter ranges from 1 to 7 mm. No drilling disturbances were observed in this core.





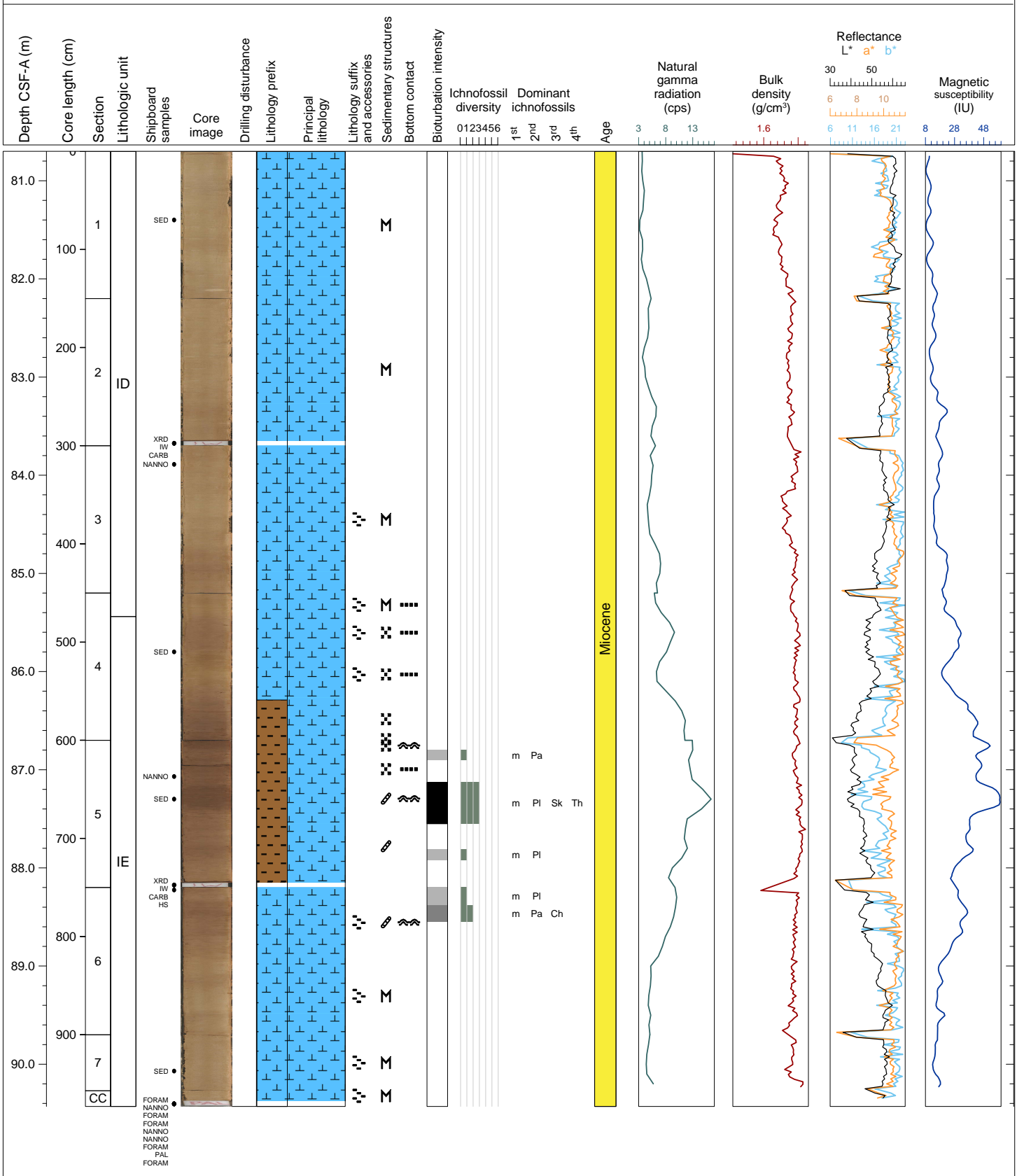
Hole 395E-U1560A Core 9H, Interval 71.2-80.45 m (CSF-A)

Core U1560A-9H consists of pink (7.5YR 7/4) nannofossil ooze and pink (7.5YR 7/4) to light brown (7.5YR 6/4) nannofossil ooze with clay. Lithologic contacts are gradational to sub angular. Bedding is massive. Biogenic mottling is only observed in the bottom meter of this core in two thin beds. Ichnogenera are limited to Planolites and Chondrites. Diversity is one and the maximum diameter ranges from 2 to 5 mm. No drilling disturbances were observed in this core.



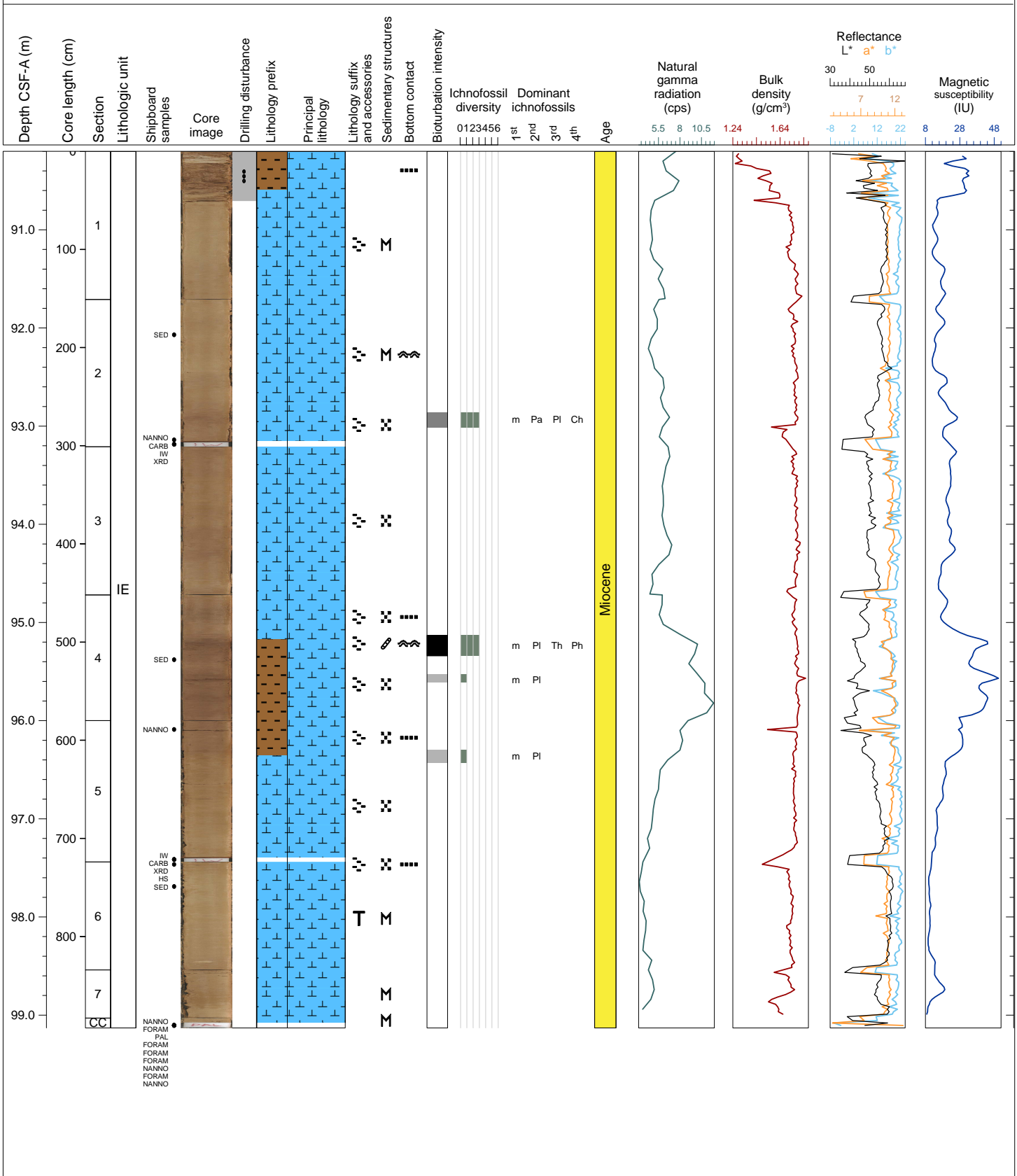
Hole 395E-U1560A Core 10H, Interval 80.7-90.43 m (CSF-A)

Core U1560A-10H consists of pink (7.5YR 7/4) nannofossil ooze in the upper 3 meters followed by brown (7.5YR 5/4) clayey nannofossil ooze with the lower 1.5 meters returning to pink (7.5YR 7/4) nannofossil ooze. Lithologic contacts range from bioturbated to subangular with mottling common in this core. Biogenic mottling occurs in thin beds in the lower 1.5 m. Distinct ichnogenera include Planolites, Palaeophycus, Thalassinoides, Chondrites, and Phycosiphon. Diversity ranges from 1 to 3 and the maximum diameter ranges from 5 to 20 mm. No drilling disturbances were observed in this core.



Hole 395E-U1560A Core 11H, Interval 90.2-99.13 m (CSF-A)

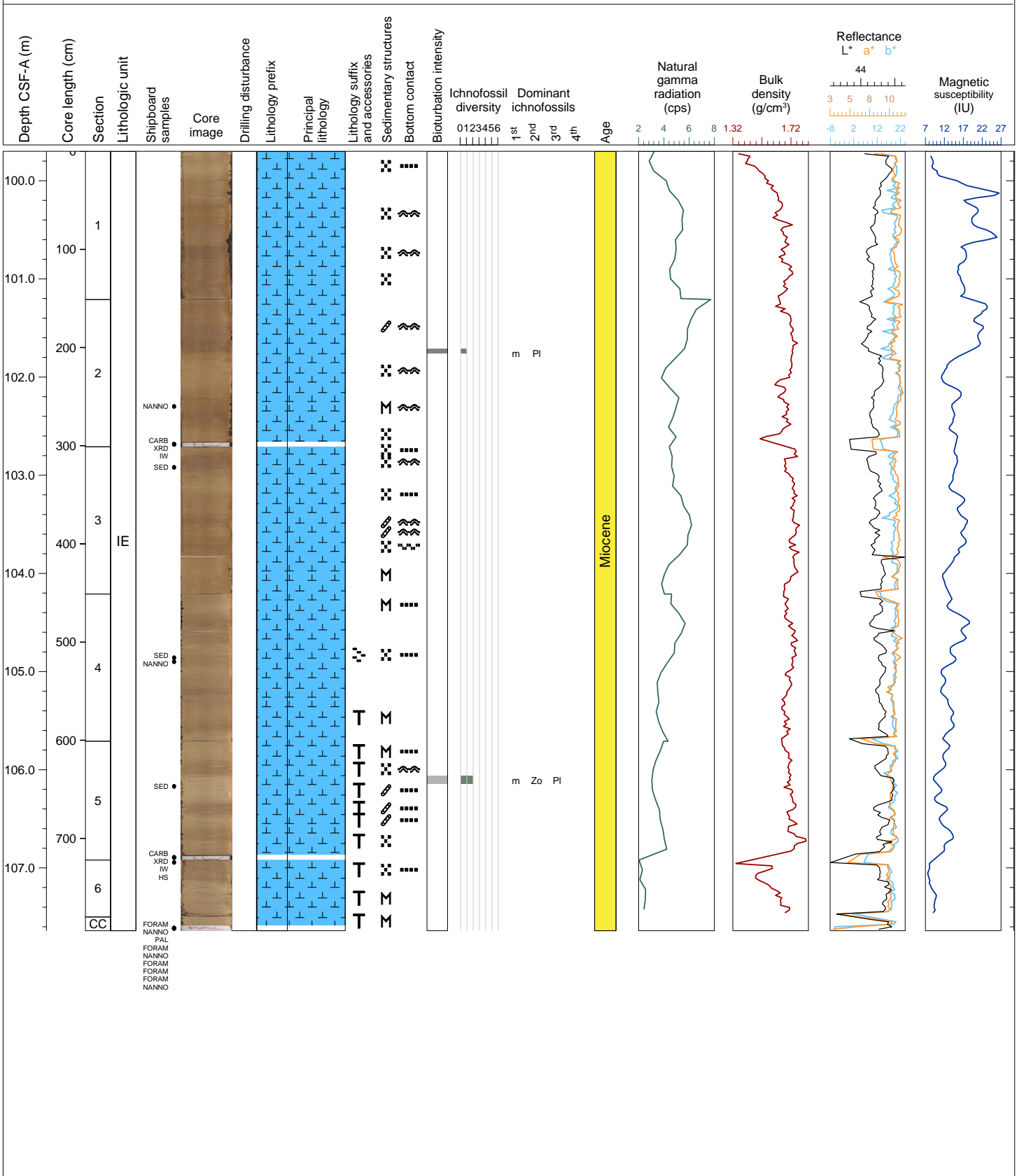
Core U1560A-11H consists of brown (7.5YR 4/4) clayey nanofossil ooze in the upper 0.39 m of the core, followed by pink (7.5YR 7/4) to light brown (7.5YR 6/4) nanofossil ooze with clay to section 6 at 5 cm where the lithology changes to pink (7.5YR 7/4) nanofossil ooze with foraminifera with variable clay content. Lithologic contacts range from bioturbated, gradational to subangular. Mottling is the dominant sedimentary structure with biogenic mottling only found in discrete thin beds occurring sporadically at the meter scale. Distinct ichnogenera occur within these beds and include Planolites, Thalassinoides, Palaeophycus, Chondrites and Phycosiphon. Diversity ranges from 1 to 3 and the maximum diameter ranges from 4 to 30 mm. No drilling disturbances were observed in this core.





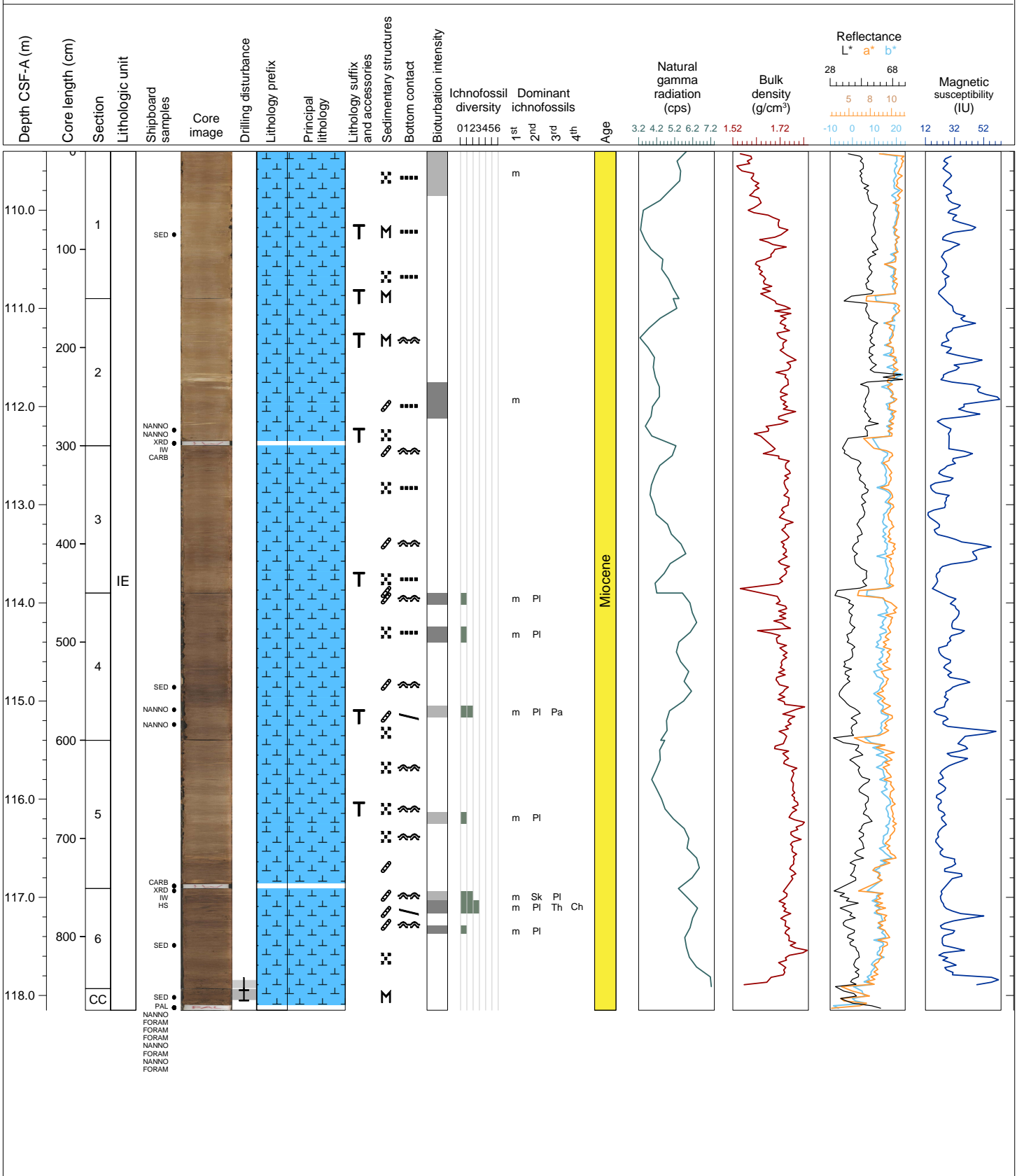
Hole 395E-U1560A Core 12X, Interval 99.7-107.64 m (CSF-A)

Core U1560A-12X consists of pink (7.5YR 7/4), light brown (7.5YR 6/4) and brown (7.5YR5/4) nannofossil ooze with clay and foraminifera down to section 4 at 102 cm where a pink (7.5YR 7/4) to light brown (7.5YR 6/4) nannofossil ooze with foraminifera extends down to the base of this core. Lithologic contacts range from bioturbated to gradational to sub angular. Mottling is pervasive throughout this core. Biogenic mottling is common throughout this core occurring in discrete decimeter thick beds. The bioturbation intensity ranges from low to moderate within these beds. Distinct ichnogenera include Planolites, Zoophycus, Skolithos, Palaeophycus, Thalassinoides, and Chondrites. Diversity ranges from 1 to 3 and the maximum diameter ranges from 3 to 10 mm. No drilling disturbances were observed in this core.



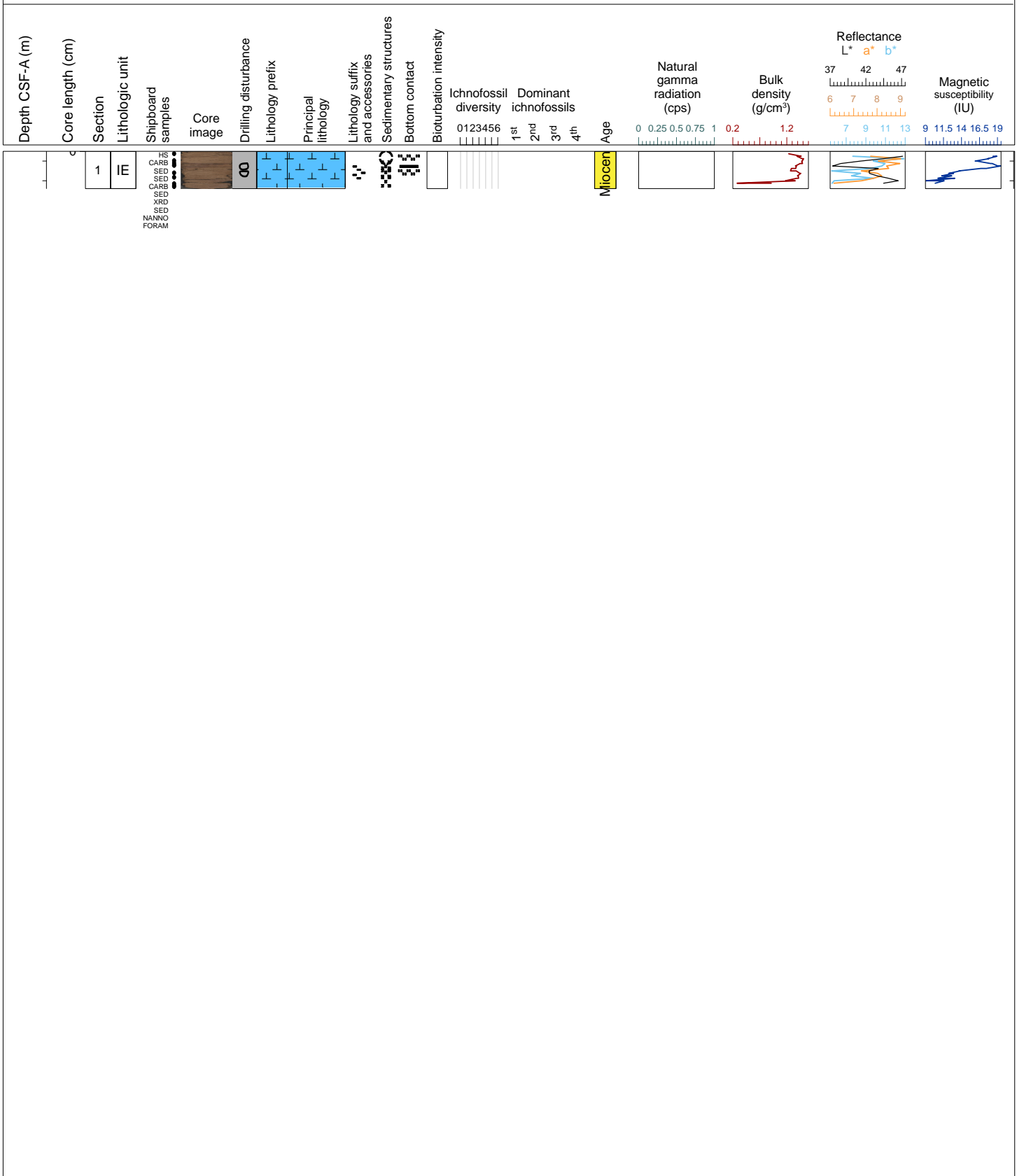
Hole 395E-U1560A Core 13X, Interval 109.4-118.15 m (CSF-A)

Core U1560A-13X consists of pink (7.5YR 7/4) nannofossil ooze with foraminifera interbedded at the decimeter to meter scale with light brown (7.5YR 6/4) to brown (7.5YR 5/4) nannofossil ooze with clay and foraminifera. Lithologic contacts range from bioturbated to subangular to occasionally sharp. Mottling is the dominant sedimentary structure. Biogenic mottling occurs in decimeter-thick beds occurring at the meter scale. Bioturbation intensity ranges from low to moderate within these beds. Distinct ichnogenera include Planolites, Skolithos, Palaeophycus, Chondrites and Thalassinoides. Diversity ranges from 1 to 3 and the maximum diameter ranges from 3 to 10 mm. Fracturing occurs in the lower 20 cm of this core otherwise no disturbances were observed in this core.



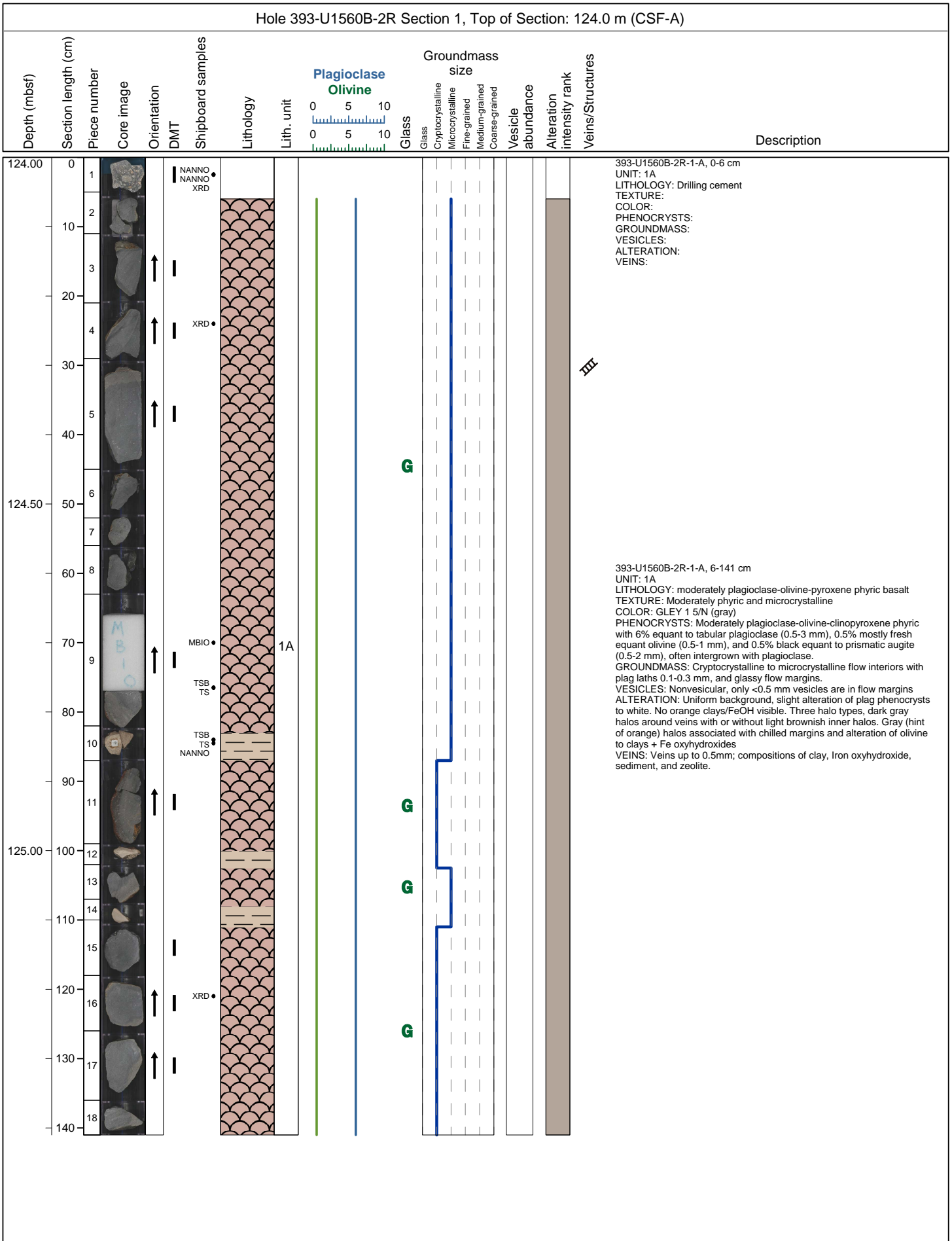
Hole 395E-U1560A Core 14X, Interval 119.1-119.48 m (CSF-A)

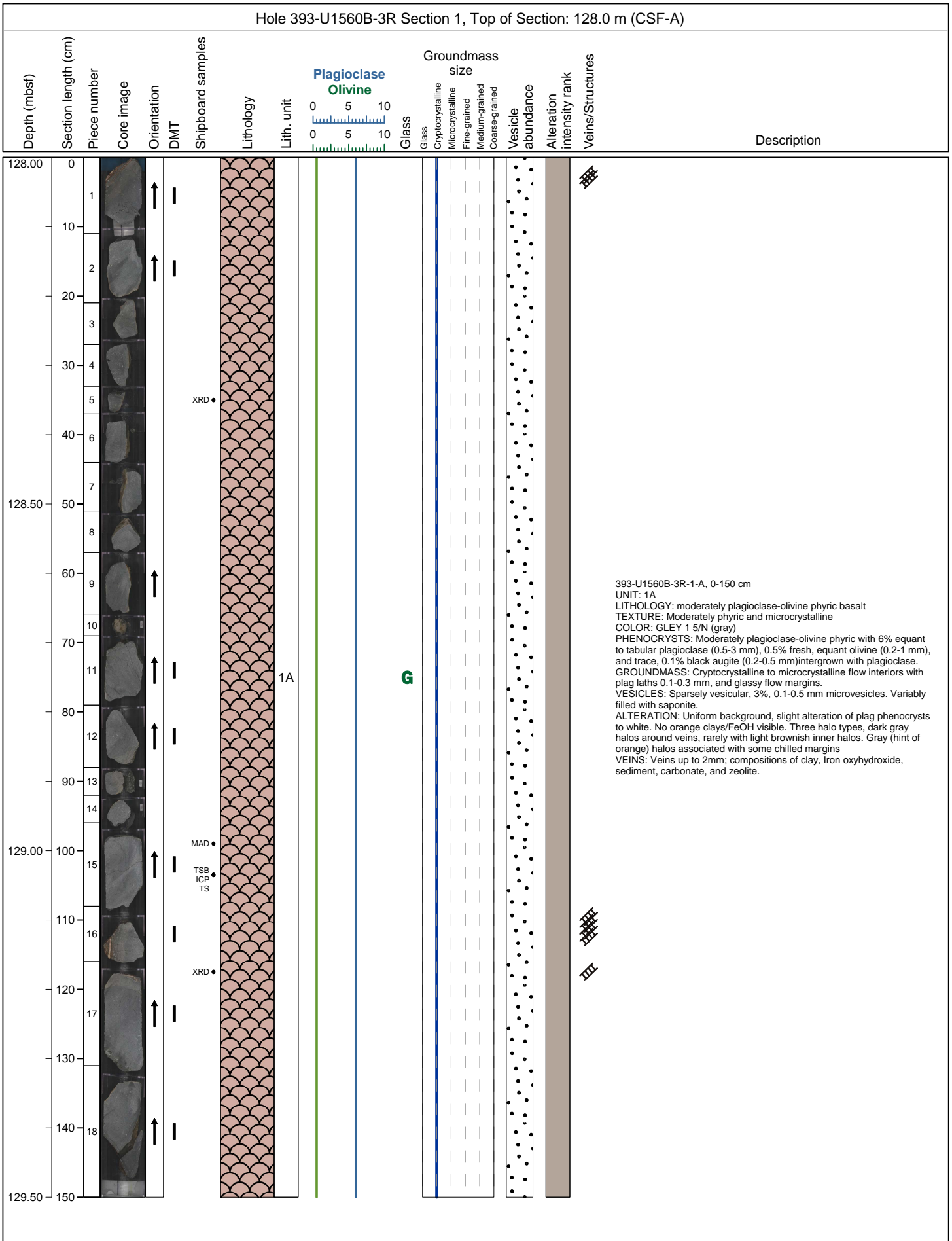
Core U1560A-14X consists of light brown (7.5YR 6/4) nannofossil ooze with clay and foraminifera was interbedded with brown (7.5YR 4/4 & 5/3) clayey nannofossil ooze. The lithologic contacts range from planar to irregular. Mottling is pervasive within this core. No biogenic mottling or distinct ichnogenera were identified. Severe biscuiting occurred within the core owing to drilling disturbances.



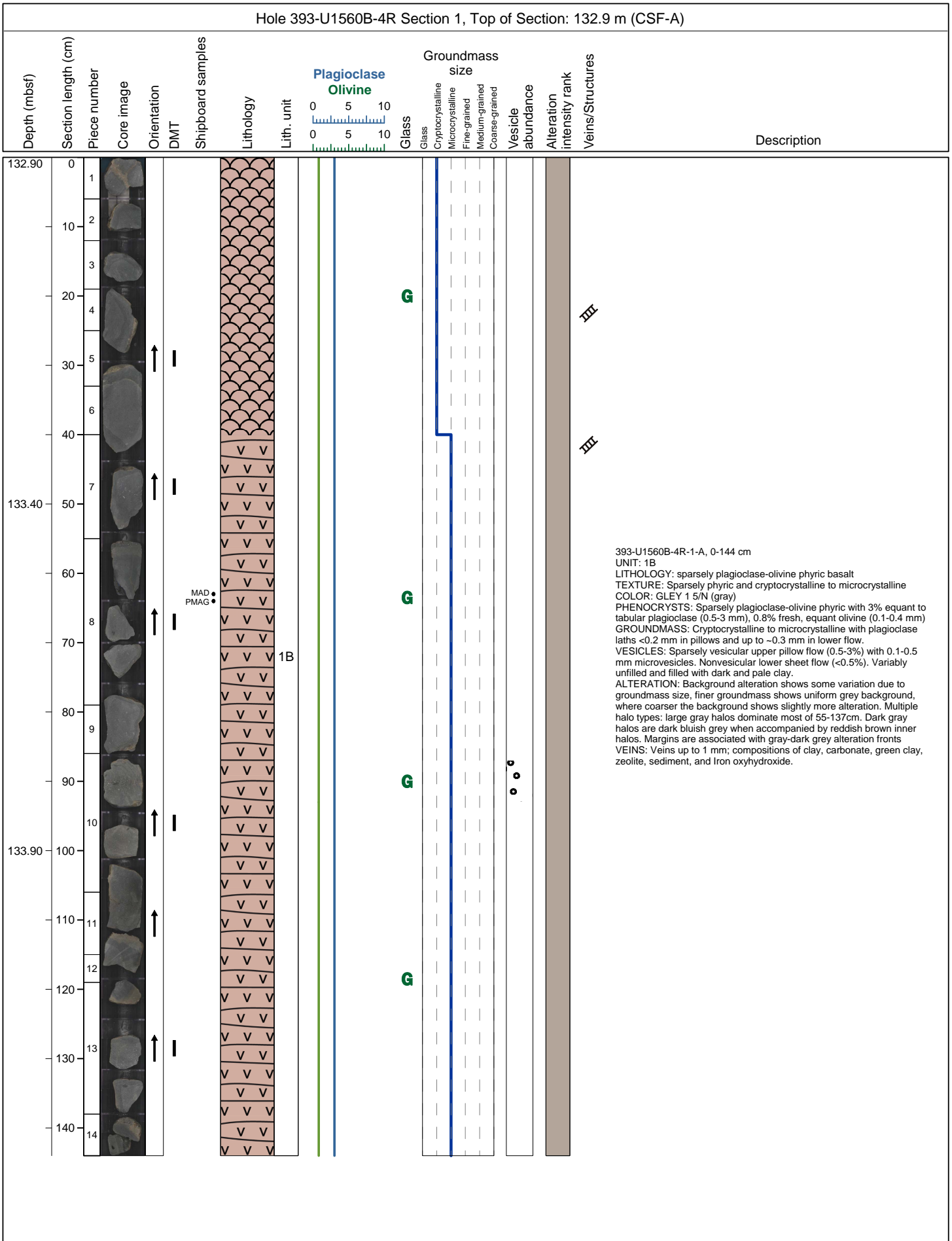
Hole 395E-U1560A-15X Section CC, Top of Section: 120.1 m (CSF-A)													
Depth (mbst)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Groundmass size	Alteration intensity rank	Veins/Structures	Description
120.10	0	1		↑				1					395E-U1560A-15X-CC-A, 0-27 cm UNIT: 1 LITHOLOGY: Sparsely plagioclase-olivine-pyroxene phyrlic basalt TEXTURE: Sparsely phyrlic COLOR: Grey (Gley 1 5/N) fresh background with brown (10YR 5/3) alteration PHENOCRYSTS: Plagioclase, olivine, augite GROUNDMASS: Glassy margins and microcrystalline pillow interiors VESICLES: Sparsely vesicular with spherical vesicles not exceeding 1 mm in diameter. ALTERATION: Grey background alteration with zoned haloes (dark grey outer halo (GLEY 1 4/N) and grey (10YR 6/1) inner halo) around veins. VEINS: Carbonate, smectite, Fe-ox veins up to 2mm
120.15													
120.20	10	2											
120.25													
120.30	20	3											

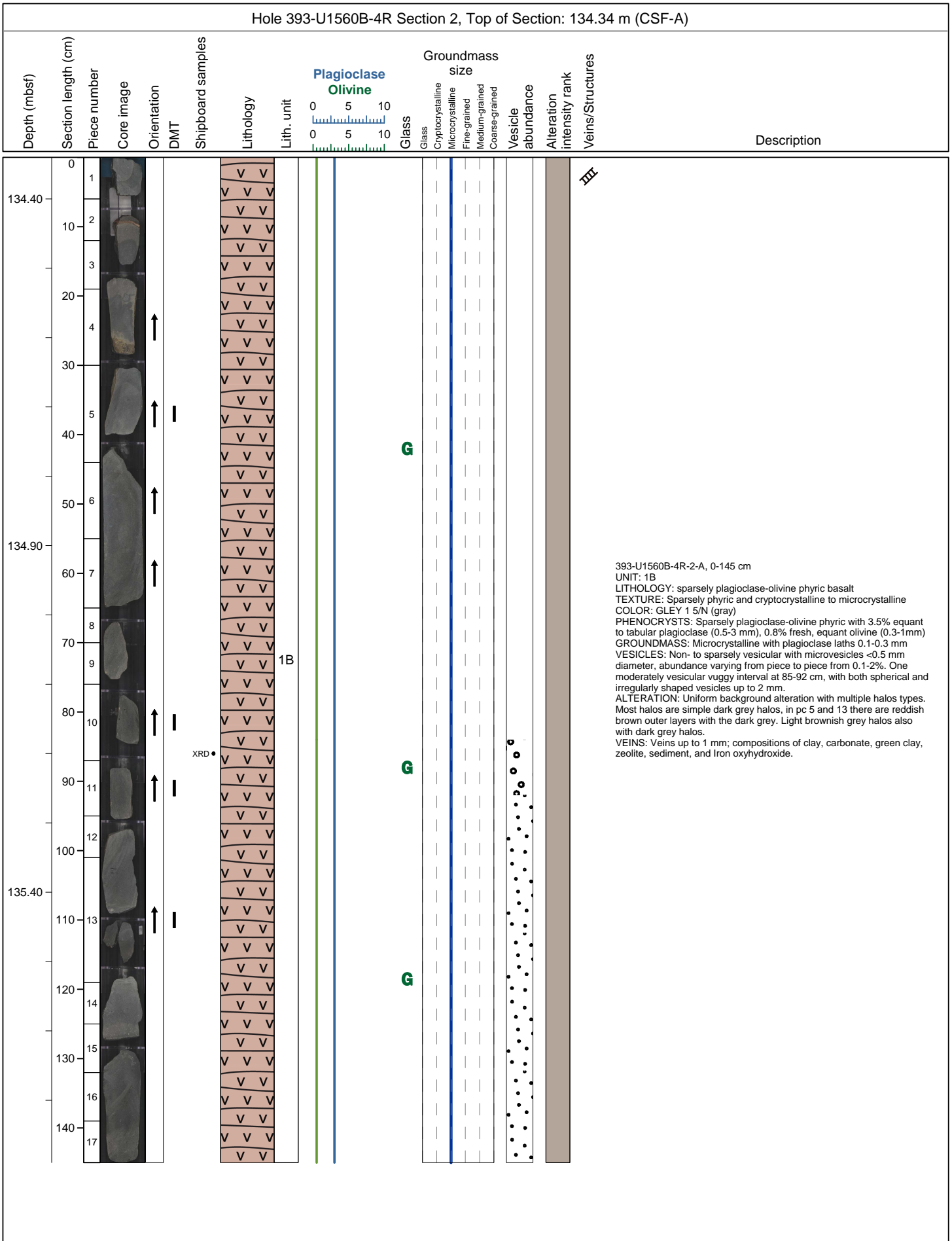
Hole 395E-U1560A-16X Section CC, Top of Section: 121.1 m (CSF-A)														
Depth (mbstf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Groundmass size	Vesicle abundance	Alteration intensity rank	Veins/Structures	Description
121.10	0			↑				1						<p>395E-U1560A-16X-CC-A, 0-28 cm</p> <p>UNIT: 1</p> <p>LITHOLOGY: Sparsely plagioclase-olivine-pyroxene phyric basalt</p> <p>TEXTURE: Sparsely phyric</p> <p>COLOR: Grey (Gley 1 5/N) fresh background with brown (10YR 5/3) alteration</p> <p>PHENOCRYSTS: Plagioclase, olivine, augite</p> <p>GROUNDMASS: Glassy margins and microcrystalline pillow interiors</p> <p>VESICLES: Sparsely vesicular with spherical vesicles not exceeding 1 mm in diameter.</p> <p>ALTERATION: Grey background alteration with zoned haloes (dark grey outer halo (GLEY 1 4/N) and grey (10YR 6/1) inner halo) around veins.</p> <p>VEINS: Carbonate, smectite, zeolite, Fe-ox veins up to 1mm</p>
121.20	10	1		↑				1						
121.30	20	2		↑				1						

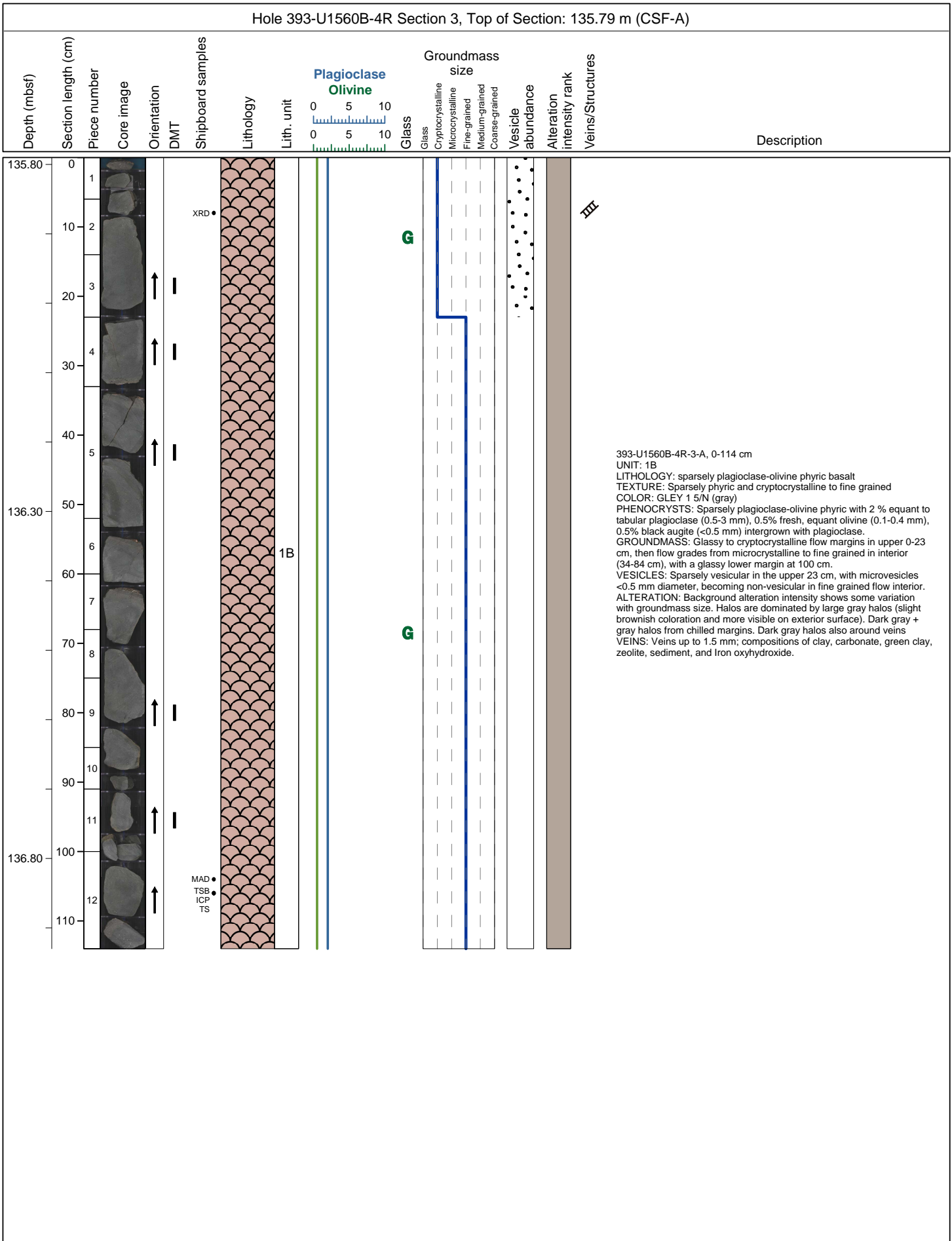


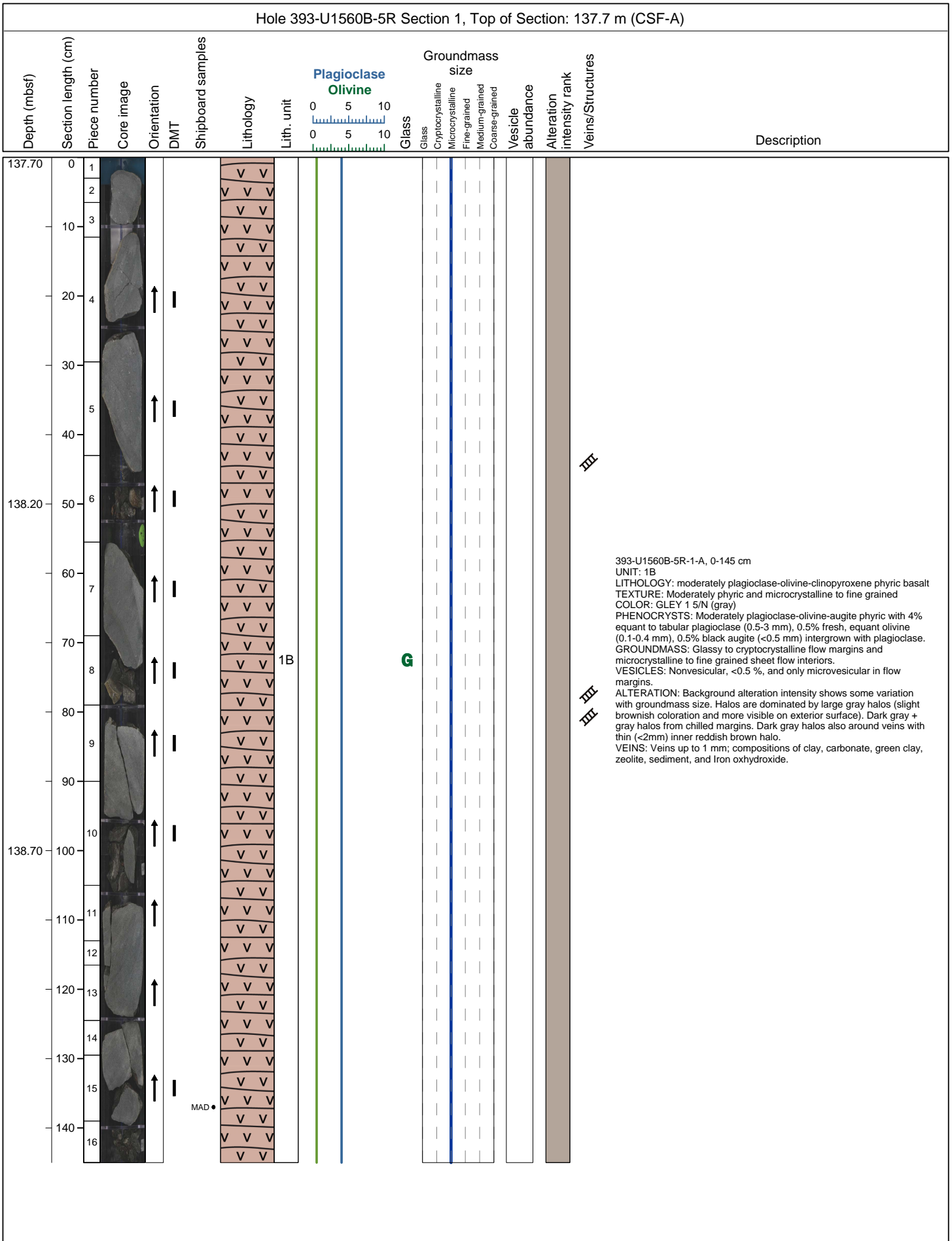




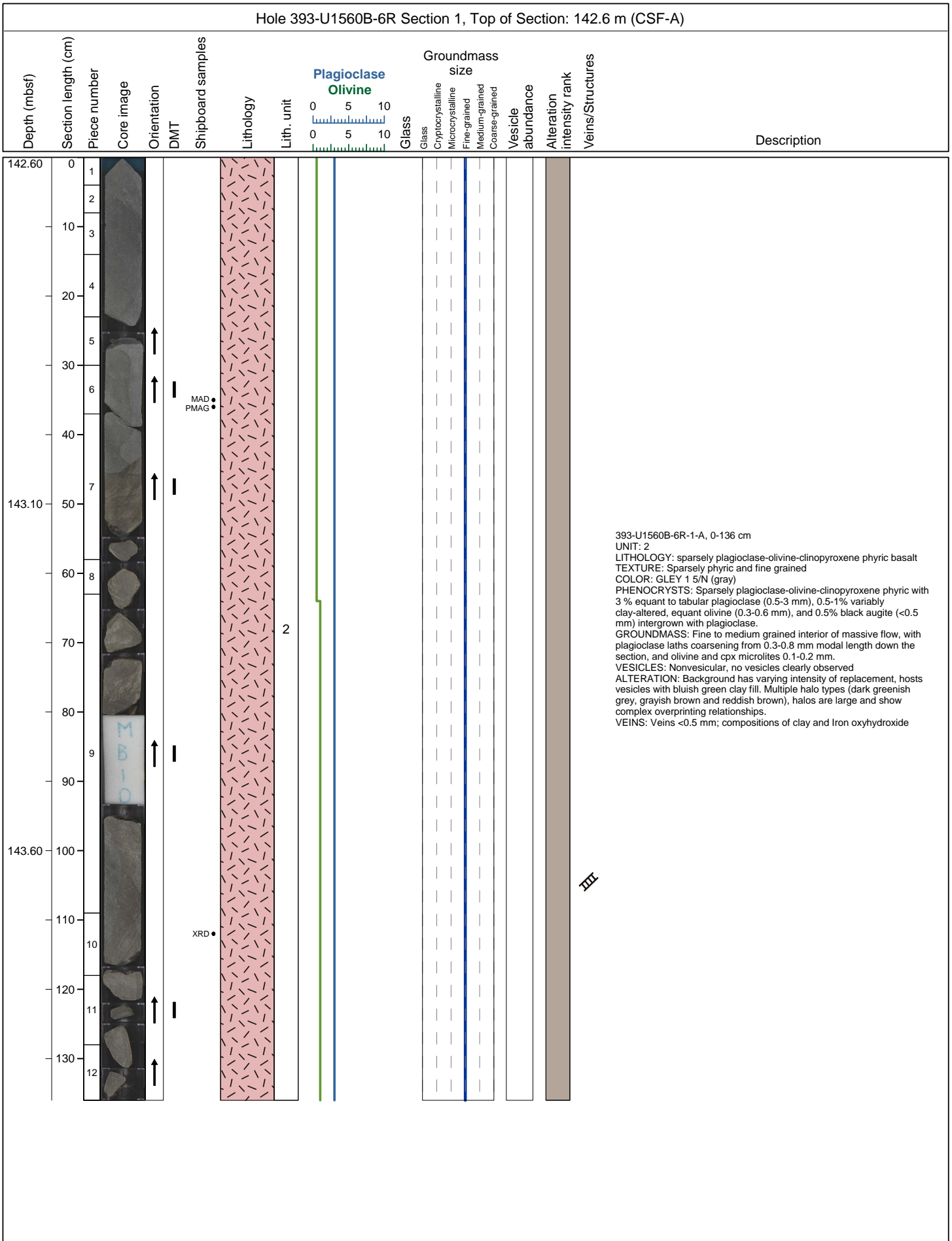


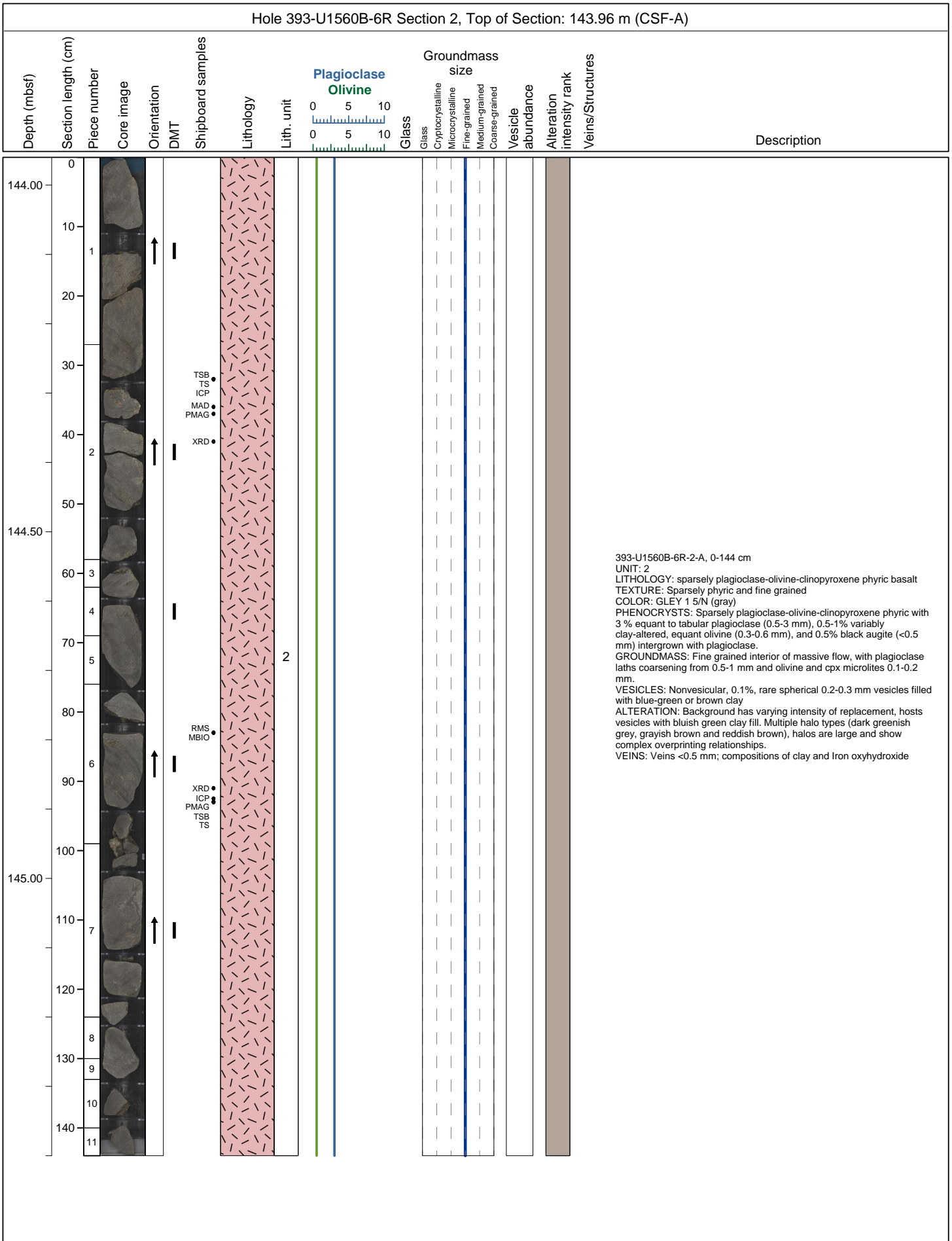




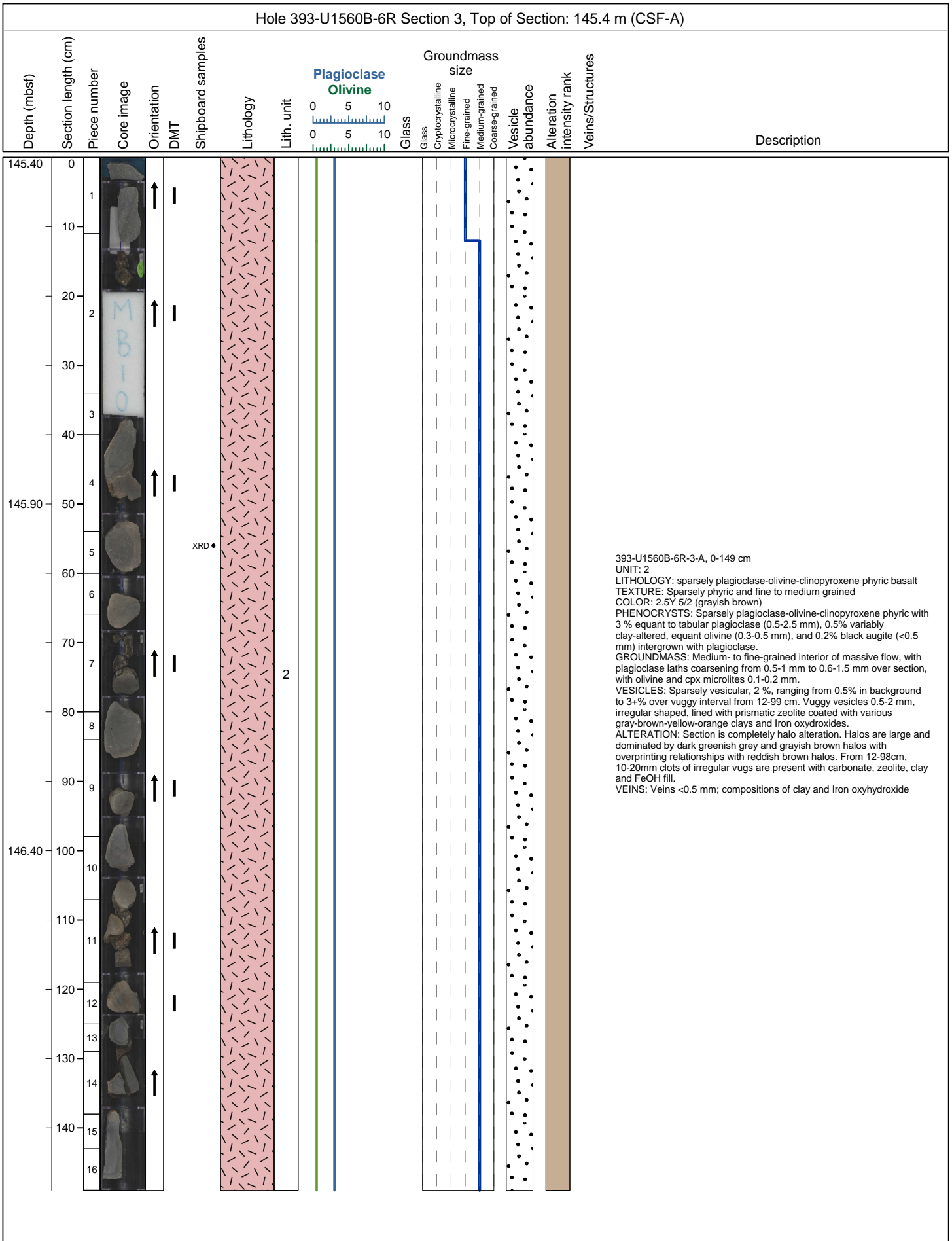


Hole 393-U1560B-5R Section 2, Top of Section: 139.15 m (CSF-A)															
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Vesicle abundance	Alteration intensity rank	Veins/Structures	Description
									0 5 10 0 5 10		Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained				
139.16	0	1		↑			V V	1B							<p>393-U1560B-5R-2-A, 0-30 cm                      UNIT: 1B                      LITHOLOGY: moderately plagioclase-olivine-clinopyroxene phyric basalt                      TEXTURE: Moderately phyric and microcrystalline                      COLOR: GLEY 1 5/N (gray)                      PHENOCRYSTS: Moderately plagioclase-olivine-clinopyroxene phyric with 4% equant to tabular plagioclase (0.5-2 mm), 0.5% fresh, equant olivine (0.5-0.6 mm), 0.5% black augite (&lt;0.5 mm) intergrown with plagioclase.                      GROUNDMASS: Microcrystalline with plagioclase laths 0.1-0.3 mm and olivine microlites 0.1 mm.                      VESICLES: Sparsely vesicular, 2-4%, with vesicles 0.1-0.3 mm diameter, mostly blue clay lined                      ALTERATION: Uniform background alteration. Three halo types with dark gray halos dominating.                      VEINS: Veins up to 1 mm; compositions of clay, carbonate, zeolite, sediment, and Iron oxyhydroxide.</p>
139.36	10	2		↑			V V								
	20	3		↑			V V								
	30	4		↑			V V								
139.56	40	5		↑			V V								
	50	6		↑			V V	2							<p>393-U1560B-5R-2-A, 30-82 cm                      UNIT: 2                      LITHOLOGY: sparsely plagioclase-olivine-clinopyroxene phyric basalt                      TEXTURE: Sparsely phyric and microcrystalline                      COLOR: GLEY 1 5/N (gray)                      PHENOCRYSTS: Sparsely plagioclase-olivine-clinopyroxene phyric with 3% equant to tabular plagioclase (0.5-3 mm), 0.5% variably clay-altered, equant olivine (0.3-0.6 mm), and 0.5% black augite (&lt;0.5 mm) intergrown with plagioclase.                      GROUNDMASS: Microcrystalline with plagioclase laths 0.1-0.2 mm and olivine microlites 0.1 mm.                      VESICLES: Nonvesicular, 0.5%, microvesicular, &lt;0.3 mm diameter                      ALTERATION: Uniform background alteration. Dark halos grey have 3-4mm outer reddish brown halos that just reach the outer edge of the dark gray halos. . Large gray halo in pc 8.                      VEINS: Veins up to 1 mm; compositions of clay, carbonate, green clay, zeolite, sediment, and Iron oxyhydroxide.</p>
	60	7		↑			V V								
139.76	70	8		↑			V V								
	80	9		↑			V V								
139.96	80	10		↑			V V								





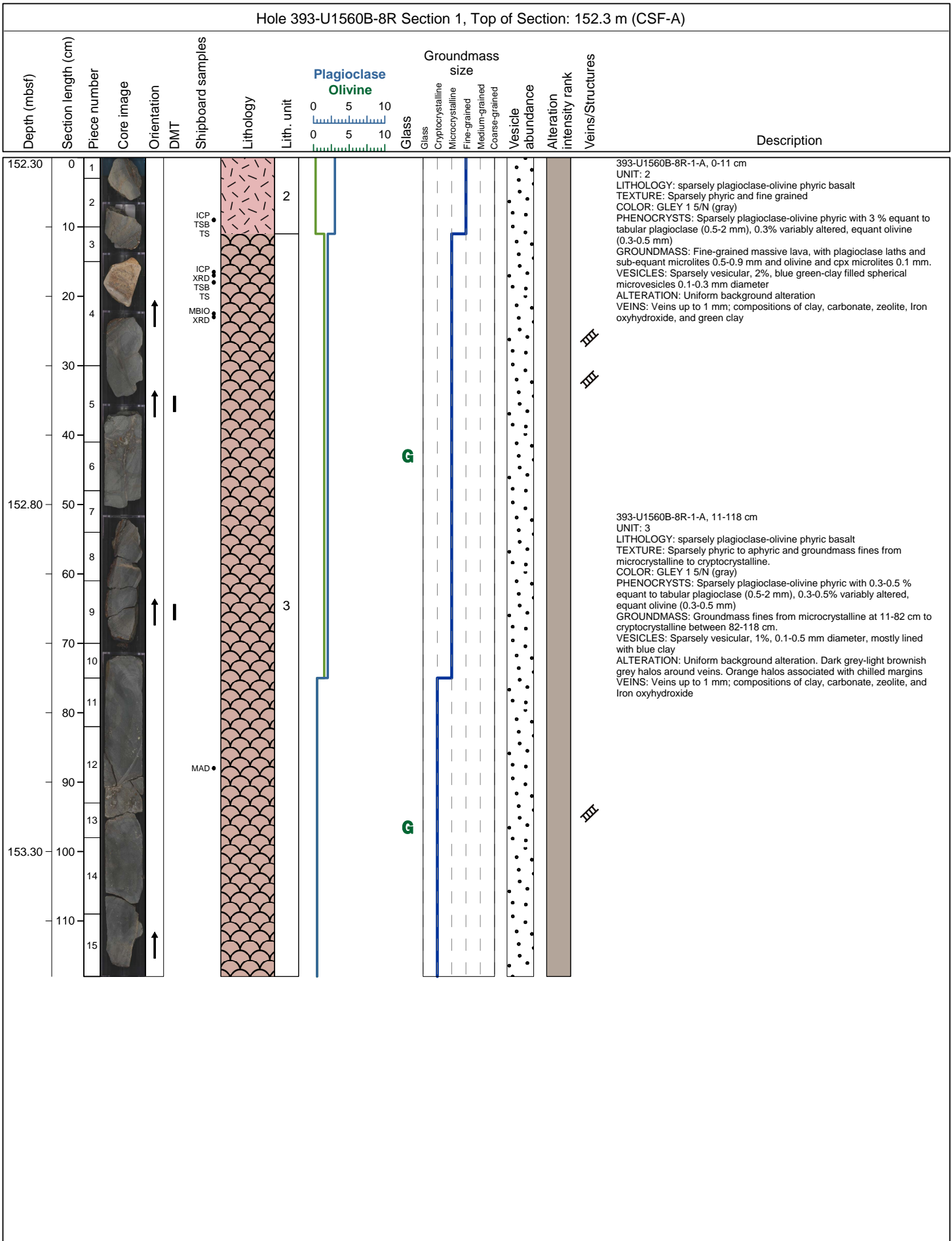


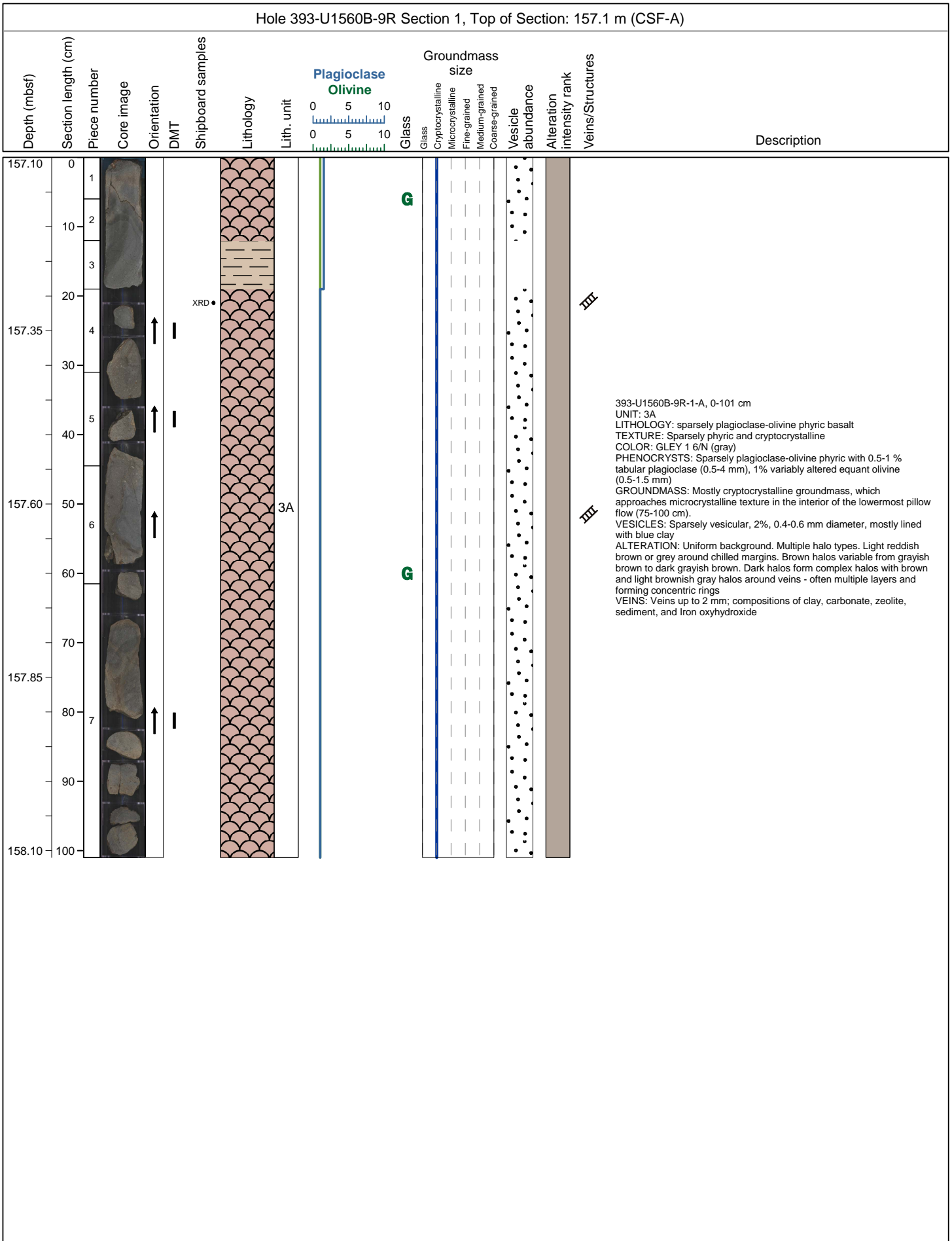


Hole 393-U1560B-7R Section 1, Top of Section: 147.4 m (CSF-A)

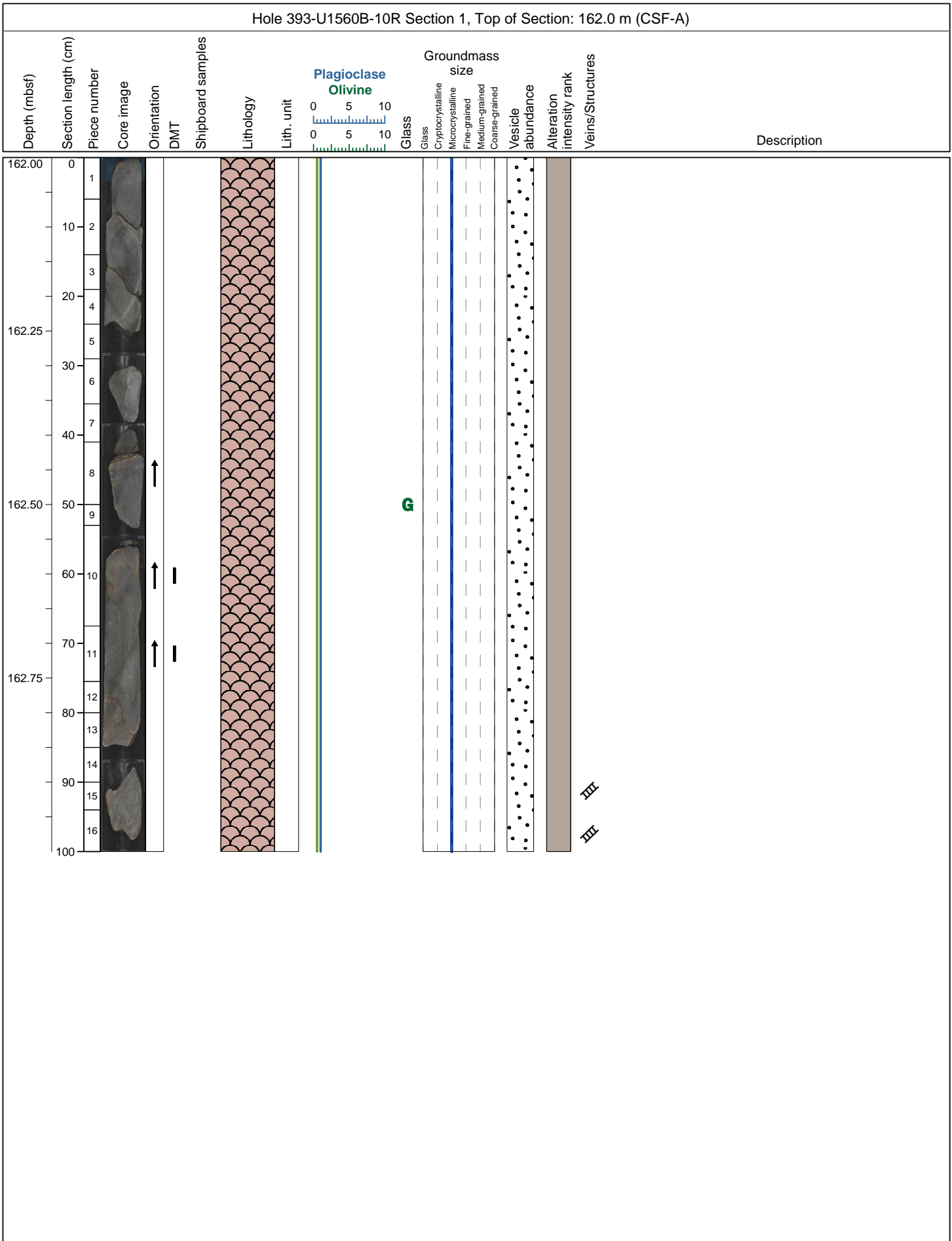
Depth (mbst)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase	Olivine	Glass	Glass	Cryptocrystalline	Microcrystalline	Fine-grained	Medium-grained	Coarse-grained	Vesicle	abundance	Alteration	intensity rank	Veins/Structures	Description
--------------	---------------------	--------------	------------	-------------	-----	-------------------	-----------	------------	-------------	---------	-------	-------	-------------------	------------------	--------------	----------------	----------------	---------	-----------	------------	----------------	------------------	-------------

NO RECOVERY 147.4-152.3 m



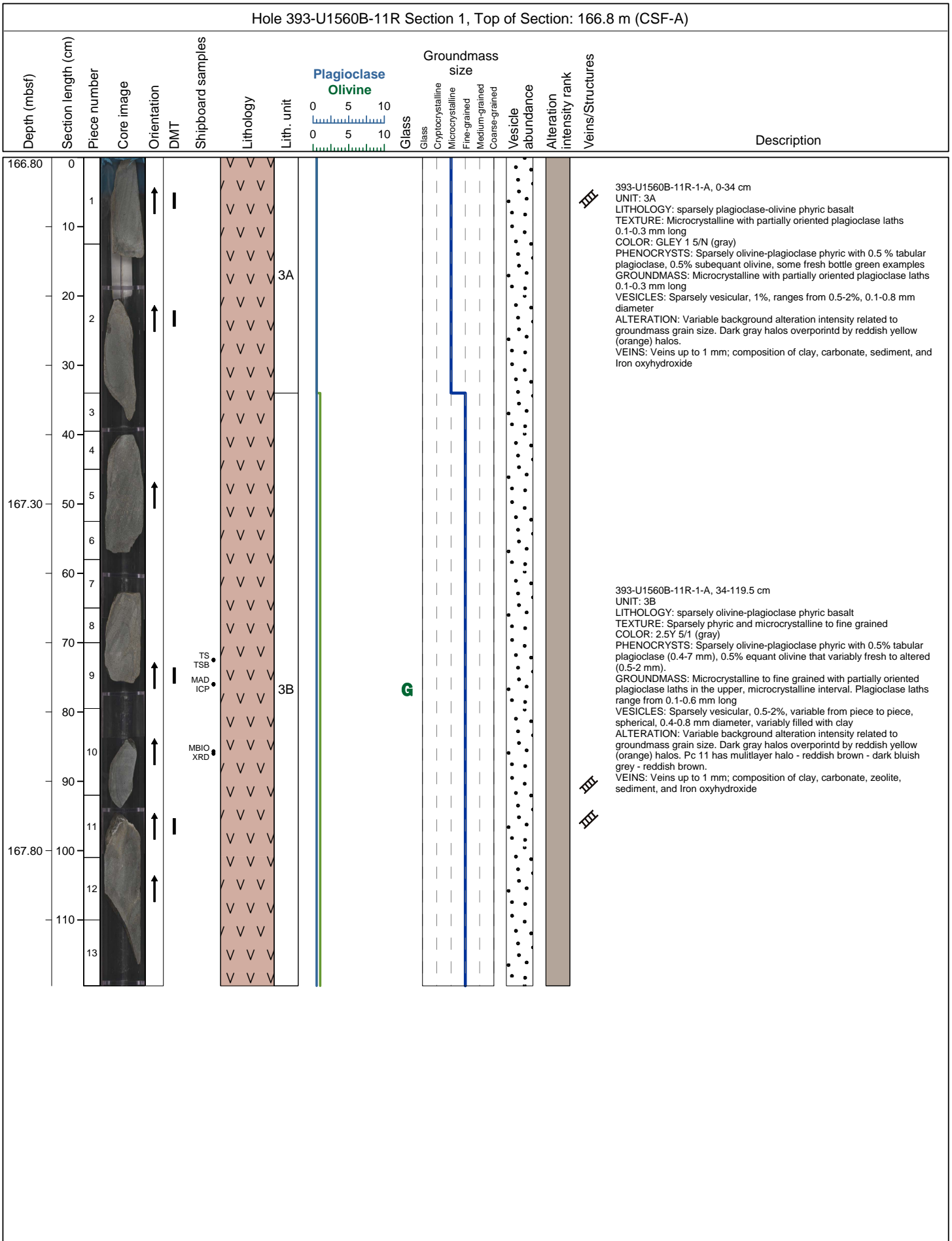


Hole 393-U1560B-9R Section 2, Top of Section: 158.11 m (CSF-A)																
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Vesicle abundance	Alteration intensity rank	Veins/Structures	Description	
									0 5 10		Glass Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained					
158.12	0			↑												
	10	1		↑												
158.32	20	2		↑												
	30	3		↑		TSB TS PMAG MAD ICP										
	40	4		↑												
158.52	50	5		↑				3A		G						
	60	6		↑												
158.72	70	7		↑												
	80	8		↑												
158.92	90	9		↑												
	100	10		↑		XRD										
																<p>393-U1560B-9R-2-A, 0-87 cm                      UNIT: 3A                      LITHOLOGY: sparsely plagioclase-olivine phyric basalt                      TEXTURE: Sparsely phyric and crypto- to microcrystalline                      COLOR: GLEY 1 5/N (gray)                      PHENOCRYSTS: Sparsely plagioclase-olivine phyric with 2 % tabular plagioclase (0.5-4 mm), 1% variably altered equant olivine (0.5-1.5 mm)                      GROUNDMASS: Glassy to cryptocrystalline upper pillow margin and microcrystalline flow interior, with plagioclase laths 0.1-0.2 mm                      VESICLES: Sparsely vesicular, 1%, 0.4-0.6 mm diameter, mostly lined with blue clay                      ALTERATION: Uniform background with partial alteration of phenocrysts. complex set of halos. reddish brown around chilled margins and veins. Extensive brown (gray) halos that consume pieces. Multiple dark grey halos with/without inner light brownish grey halo                      VEINS: Veins up to 1 mm; composition of clay, carbonate, zeolite, sediment, and Iron oxyhydroxide</p>



Hole 393-U1560B-10R Section 2, Top of Section: 163.0 m (CSF-A)														
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Vesicle abundance	Alteration intensity rank	Veins/Structures	Description
								0 5 10 0 5 10	Glass Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained					
163.00	0													
	10	1		↑										
163.20	20	2												
	30	3		↑			3A		G					
163.40	40	4		↑										
	50													
163.60	60	5												
														<p>393-U1560B-10R-2-A, 0-64 cm                      UNIT: 3A                      LITHOLOGY: sparsely olivine-plagioclase phyric basalt                      TEXTURE: Sparsely phyric and microcrystalline to fine grained, oriented plagioclase laths in groundmass                      COLOR: GLEY 1 5/N (gray)                      PHENOCRYSTS: Sparsely olivine-plagioclase phyric with 1 % tabular plagioclase (0.5-4 mm), 1.5% altered equant olivine (0.5-2 mm)                      GROUNDMASS: Glassy margins grade into microcrystalline to fine-grained interiors with distinctive oriented plagioclase laths 0.2-0.6 mm long and &lt;0.1 mm wide.                      VESICLES: Sparsely vesicular, 1%, 0.4-0.8 mm diameter, spherical, mostly unfilled                      ALTERATION: Uniform to patchy (variolitic) background. Orange halos around chilled margins and veins, overprinting dark grey halos. Dark grey halos throughout, dark bluish gray in pc 4 where it has a prominent reddish brown outer halo.                      VEINS: Veins up to 1 mm; composition of clay, carbonate, zeolite, sediment, and Iron oxyhydroxide</p>





Hole 393-U1560B-12R Section 1, Top of Section: 171.7 m (CSF-A)																
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Vesicle abundance	Alteration intensity rank	Veins/Structures	Description	
171.72	0	1		↑				3B								393-U1560B-12R-1-A, 0-53 cm UNIT: 3B LITHOLOGY: sparsely olivine-plagioclase phyric basalt TEXTURE: Sparsely phyric and microcrystalline to fine grained COLOR: 2.5Y 5/1 (gray) PHENOCRYSTS: Sparsely olivine-plagioclase phyric with 0.5% tabular plagioclase (0.4-1.5 mm), 0.7% equant olivine that variably fresh to altered (0.3-1.5 mm). GROUNDMASS: Microcrystalline to fine grained with plagioclase laths ranging from 0.1-0.4 mm long VESICLES: Sparsely vesicular, 0.5-1.5%, spherical, 0.4-0.8 mm diameter, variably filled with clay ALTERATION: Variable background alteration intensity related to groundmass grain size. Dark gray halos (multilayer) overprinted by reddish yellow (orange) halos. VEINS: Veins up to 1.5 mm; compositions of clay, carbonate, sediment, and Iron oxyhydroxide
	10	2		↑												
171.92	20	3		↑												
	30	4		↑												
	40	5		↑												
172.12	50	6		↑												



Hole 393-U1560B-14R Section 1, Top of Section: 180.4 m (CSF-A)													
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Veins/Structures	Description
									0 5 10 0 5 10	Glass Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained			
180.40	0			↑				3C					<p>393-U1560B-14R-1-A, 0-45 cm                      UNIT: 3C                      LITHOLOGY: aphyric basalt                      TEXTURE: Aphyric and microcrystalline                      COLOR: GLEY 1 5/N (gray)                      PHENOCRYSTS: Aphyric with 0.4% tabular plagioclase (0.4-2 mm), 0.2% equant olivine that are totally clay altered (0.3-0.5 mm).                      GROUNDMASS: Microcrystalline and weakly oriented with plagioclase laths 0.1-0.2 mm.                      VESICLES: Nonvesicular, &lt;0.5%, spherical, 0.1-0.4 mm diameter, concentrated into pillow margin (Pc 3), 0.1-0.5 mm.                      ALTERATION: Variable background alteration with extensive brown or orange halos around veins                      VEINS: Veins up to 1 mm; compositions of clay, carbonate, sediment, and Iron oxyhydroxide</p>
180.60	20	2											
180.80	30	3		↑									
180.80	40	4											

Hole 393-U1560B-15R Section 1, Top of Section: 185.2 m (CSF-A)													
Depth (mbstf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Veins/Structures	Description
									0 5 10 0 5 10	Glass Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained			
185.20	0	1		↑				3C					<p>393-U1560B-15R-1-A, 0-141 cm                      UNIT: 3C                      LITHOLOGY: aphyric basalt                      TEXTURE: Aphyric and microcrystalline                      COLOR: GLEY 1 5/N (gray)                      PHENOCRYSTS: Aphyric with 0.3% tabular plagioclase (0.4-8 mm), mostly &lt;1 mm, but rare large examples 8 mm and tabular; 0.4% equant olivine that are totally clay altered (0.3-0.5 mm).                      GROUNDMASS: Microcrystalline and weakly oriented with plagioclase laths 0.1-0.2 mm.                      VESICLES: Nonvesicular, &lt;0.5%, spherical, 0.1-0.4 mm diameter                      ALTERATION: Variable background alteration with extensive brown or orange halos around veins overprinting grey halos                      VEINS: Veins up to 2 mm; compositions of clay, carbonate, sediment, zeolite, and Iron oxyhydroxide</p>
	10			↑		MAD •							
	20	2		↑									
	30	3		↑		XRD •							
	40	4		↑		RMS MBIO •							
185.70	50	5		↑									
	60	6		↑									
	70	7		↑									
	80	8		↑									
	90	9		↑									
186.20	100	10		↑		XRD •							
	110	12		↑									
	120	13		↑									
	130	14		↑									
	140	15		↑									

Hole 393-U1560B-16R Section 1, Top of Section: 190.1 m (CSF-A)													
Depth (mbstf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Veins/Structures	Description
									0 5 10	Glass	Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained		
190.10	0	1											
	2												
	10												
	20												
	30												
	40												
190.60	50	7											
	60												
	70												
	80												
	90												
191.10	100												
	110												
	120												
	130												
	140												

MAD  
XRD

XRD  
MBIO

3C

G

III

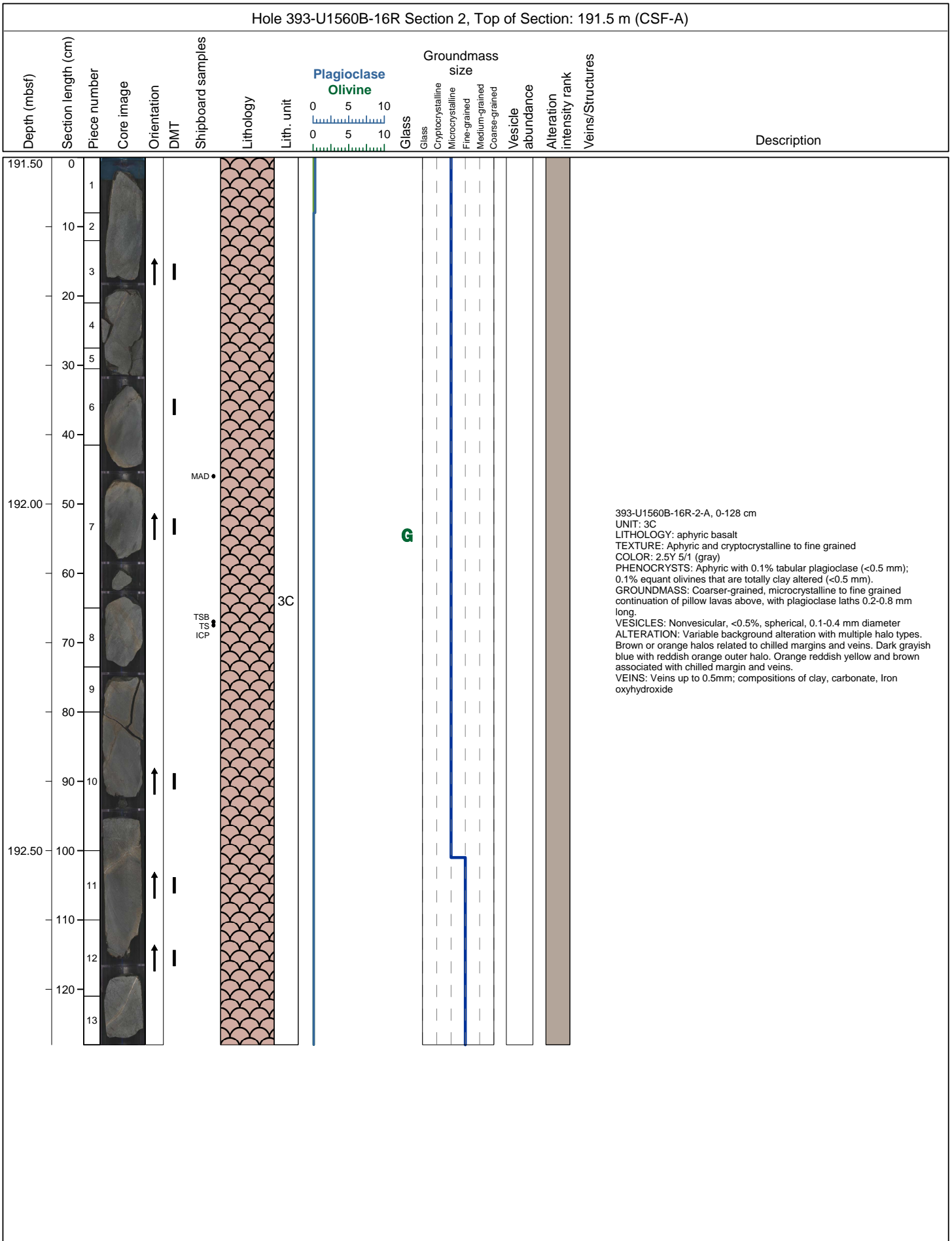
III

III

III

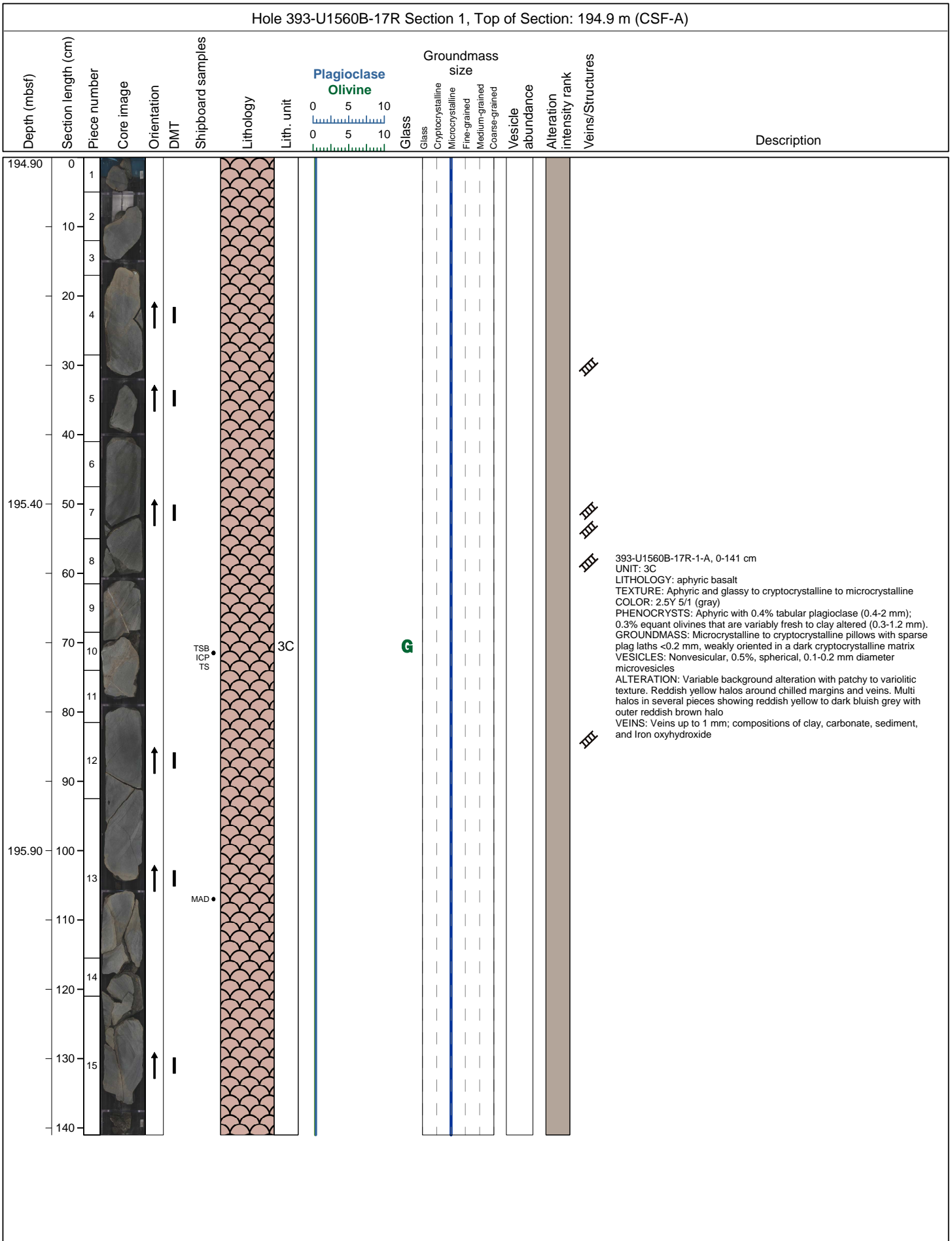
III

393-U1560B-16R-1-A, 0-140 cm  
 UNIT: 3C  
 LITHOLOGY: aphyric basalt  
 TEXTURE: Aphyric and crypto- to microcrystalline  
 COLOR: GLEY 1.5/N (gray)  
 PHENOCRYSTS: Aphyric with 0.3% tabular plagioclase (0.4-8 mm), mostly <1 mm, but rare large examples 8 mm and tabular; 0.4% equant olivines that are totally clay altered (0.3-0.5 mm).  
 GROUNDMASS: Cryptocrystalline to microcrystalline, with moderately oriented very high aspect ratio plagioclase laths 0.1-0.2 mm, and 0.1 mm olivine microlites.  
 VESICLES: Nonvesicular, <0.5%, spherical, 0.1-0.4 mm diameter  
 ALTERATION: Variable background alteration with brown or orange halos around veins overprinting grey halos. Multi halo in pc 11  
 VEINS: Veins up to 1 mm; compositions of clay, carbonate, sediment, zeolite, and Iron oxyhydroxide



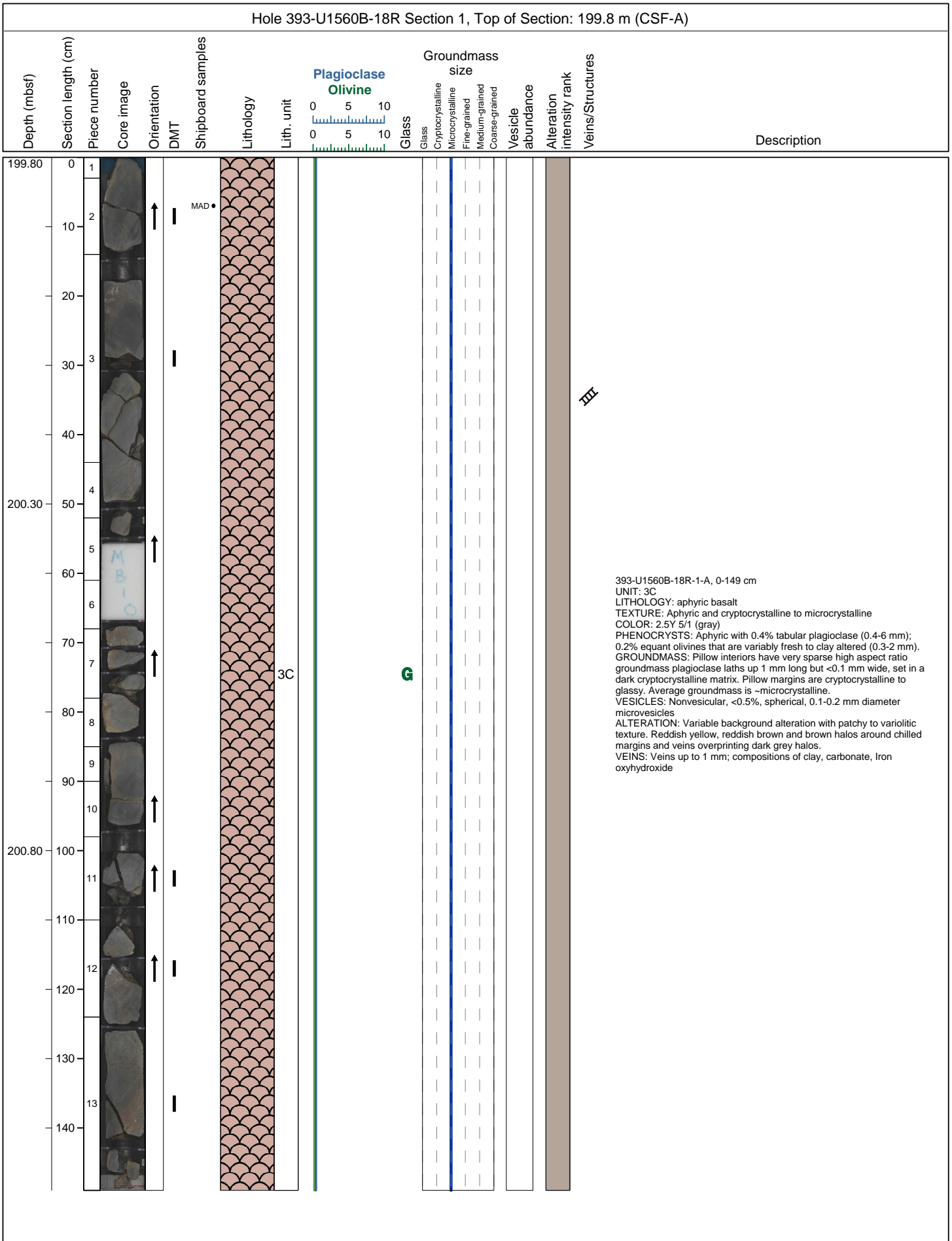
Hole 393-U1560B-16R Section 3, Top of Section: 192.78 m (CSF-A)																
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Vesicle abundance	Alteration intensity rank	Veins/Structures	Description	
									0 5 10		Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained					
192.80	0			↑												
	1			↑												
	10			↑												
	20	2		↑												
193.05	30	3		↑												
	40	4		↑												
	50	5		↑												
193.30	60	6		↑				3C								
	70	7		↑												
	80	8		↑												
193.55	90	9		↑												
																<p>393-U1560B-16R-3-A, 0-97 cm                      UNIT: 3C                      LITHOLOGY: aphyric basalt                      TEXTURE: Aphyric and cryptocrystalline to microcrystalline                      COLOR: 2.5Y 5/1 (gray)                      PHENOCRYSTS: Aphyric with 0.2% tabular plagioclase (0.4-1 mm); 0.2% equant olivines that are totally clay altered (0.3-0.5 mm).                      GROUNDMASS: Microcrystalline pillow interiors with cryptocrystalline margins, plag laths &lt;0.1-0.3 mm.                      VESICLES: Nonvesicular, 0.5%, spherical, 0.1-0.4 mm diameter, microvesicles concentrated in pillow lavas.                      ALTERATION: Variable background alteration with patchy to variolitic texture. Reddish yellow halos around chilled margins and veins. Multi halos in several pieces showing reddish yellow to dark bluish grey with outer reddish brown halo                      VEINS: Veins up to 1 mm; compositions of clay, carbonate, Iron oxyhydroxide. Syntaxial crack-seal calcium carbonate vein in Pc9.</p>





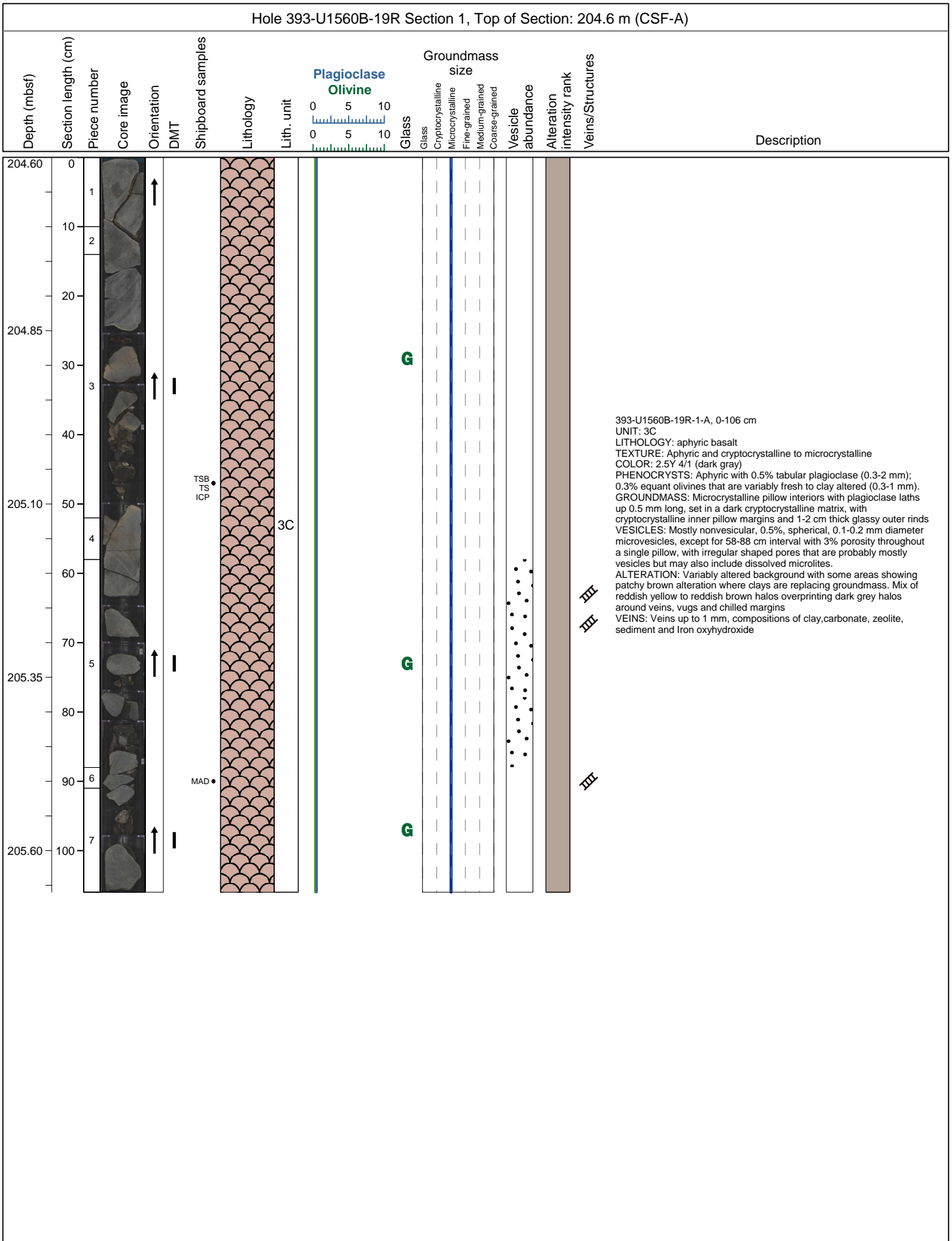
Hole 393-U1560B-17R Section 2, Top of Section: 196.31 m (CSF-A)													
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Groundmass size	Alteration intensity rank	Veins/Structures	Description
									0 5 10 0 5 10	Glass Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained			
0	1			↑									
196.40	2			↑									
	3			↑									
	4			↑									
	5			↑									
	6			↑									
196.90	7			↑									
	8			↑									
	9			↑									
197.40	110												

393-U1560B-17R-2-A, 0-117 cm  
 UNIT: 3C  
 LITHOLOGY: aphyric basalt  
 TEXTURE: Aphyric and cryptocrystalline to microcrystalline  
 COLOR: 2.5Y 5/1 (gray)  
 PHENOCRYSTS: Aphyric with 0.3% tabular plagioclase (0.4-2 mm); 0.2% equant olivines that are variably fresh to clay altered (0.3-2 mm).  
 GROUNDMASS: Pillow interiors have very sparse high aspect ratio groundmass plagioclase laths up 1 mm long but <0.1 mm wide, set in a dark cryptocrystalline matrix. Pillow margins are cryptocrystalline to glassy. Average groundmass is ~microcrystalline.  
 VESICLES: Nonvesicular, <0.5%, spherical, 0.1-0.2 mm diameter microvesicles  
 ALTERATION: Variable background alteration with patchy to variolitic texture. Reddish yellow and reddish brown halos around chilled margins and veins overprinting dark grey halos.  
 VEINS: Veins up to 2 mm; compositions of clay, carbonate, Iron oxyhydroxide



Hole 393-U1560B-18R Section 2, Top of Section: 201.29 m (CSF-A)																
Depth (mbstf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Vesicle abundance	Alteration intensity rank	Veins/Structures	Description	
									0 5 10 0 5 10	Glass Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained						
201.30	0			↑												
	1			↑						G						
	10			↑						G						
	20			↑						G						
	2			↑						G						
	30			↑						G						
	3			↑						G						
201.80	50			↑						G						
	4			↑						G						
	5			↑		MBIO •				G						
	6			↑						G						
	7			↑						G						
	8			↑						G						
	8			↑						G						
	9			↑						G						
	9			↑						G						
	10			↑						G						
202.30	100			↑						G						
	11			↑						G						
	11			↑						G						
	12			↑						G						
	12			↑						G						
	13			↑						G						
	13			↑						G						
	14			↑						G						
	14			↑						G						
	14			↑						G						
	15			↑						G						

393-U1560B-18R-2-A, 0-150 cm  
 UNIT: 3C  
 LITHOLOGY: aphyric basalt  
 TEXTURE: Aphyric and cryptocrystalline to microcrystalline  
 COLOR: 2.5Y 4/1 (dark gray)  
 PHENOCRYSTS: Aphyric with 0.5% tabular plagioclase (0.3-2 mm); 0.3% equant olivines that are variably fresh to clay altered (0.3-1 mm).  
 GROUNDMASS: Pillow interiors have sparse plagioclase laths up 1 mm long, set in a dark cryptocrystalline matrix, with an average grain size that is microcrystalline  
 VESICLES: Nonvesicular, 0.5%, spherical, 0.1-0.2 mm diameter microvesicles. Several intervals (differentiated in Extrusive tab) with carbonate-filled vugs, that may have been vesicles, which would increase vesicularity to 2-3% for those intervals.  
 ALTERATION: Variably altered background with some areas showing patchy brown alteration where clays are replacing groundmass. Mix of reddish yellow to grayish brown halos overprinting dark grey halos around veins, vugs and chilled margins  
 VEINS: Veins up to 3.5 mm; compositions of clay, carbonate and Iron oxyhydroxide

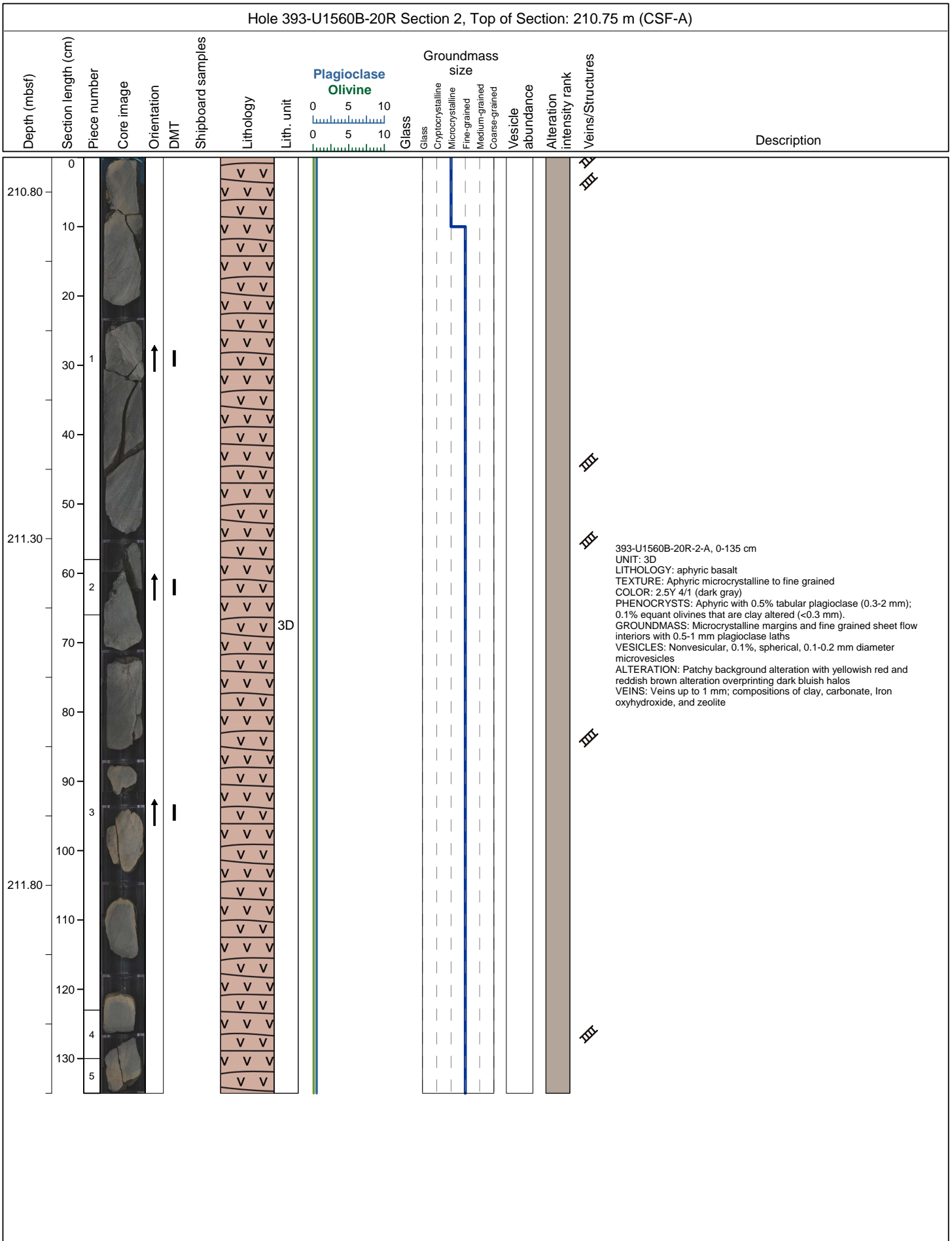


Hole 393-U1560B-19R Section 2, Top of Section: 205.66 m (CSF-A)													
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Veins/Structures	Description
									0 5 10 0 5 10	Glass Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained			
205.70	0			↑									
	10												
	20			↑									
	30												
	40			↑									
206.20	50	3		↑									
	60												
	70	4		↑									
	80	5											
	90	6											
	100	7											
206.70	110	8											
	120	9		↑									

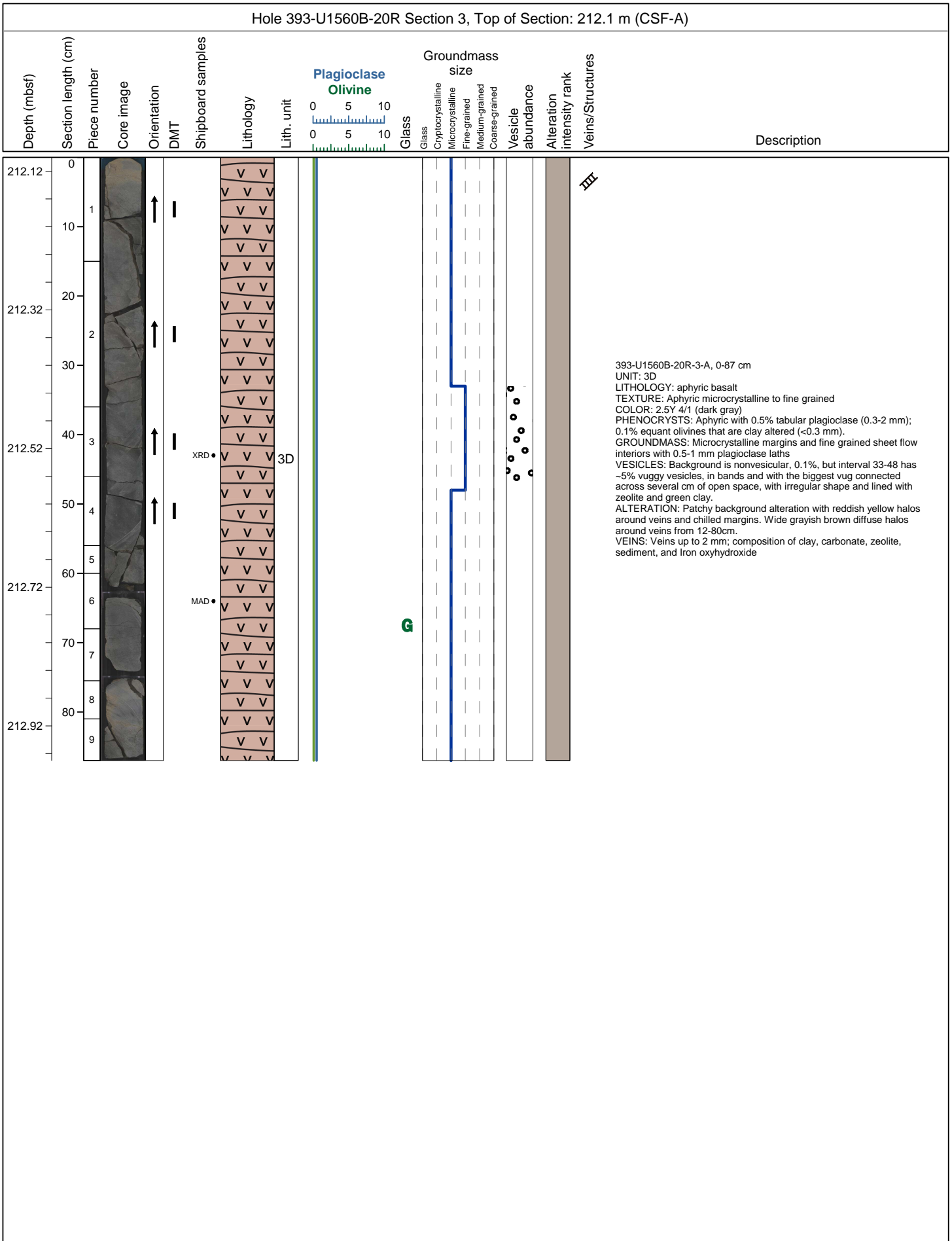
393-U1560B-19R-2-A, 0-126 cm  
 UNIT: 3C  
 LITHOLOGY: aphyric basalt  
 TEXTURE: Aphyric cryptocrystalline to microcrystalline  
 COLOR: 2.5Y 4/1 (dark gray)  
 PHENOCRYSTS: Aphyric with 0.5% tabular plagioclase (0.3-2 mm); 0.1% equant olivines that are variably fresh to clay altered (0.3-0.5 mm).  
 GROUNDMASS: Microcrystalline pillow interiors with cryptocrystalline inner pillow margins and 1-2 cm thick glassy outer rinds  
 VESICLES: Mostly nonvesicular, <0.1%, with interval of spherical, 0.1-0.2 mm diameter microvesicles in interior of pillow margin in Pc 2-3 (0.5-1%), for a section average of ~0.3%  
 ALTERATION: Variably altered background with some areas showing patchy brown alteration where clays are replacing groundmass. Mix of reddish yellow to grayish brown halos overprinting dark grey halos around veins and chilled margins. Dark bluish gray halos with no overprinting in pc 1  
 VEINS: Veins up to 1.5 mm; compositions of clay, carbonate, zeolite, sediment, and Iron oxyhydroxide


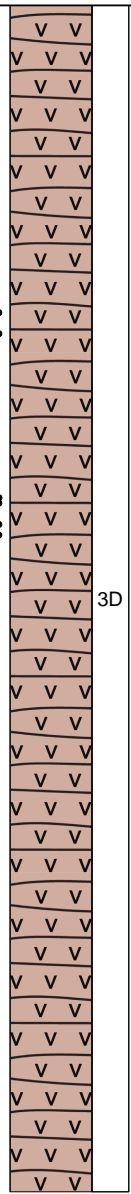




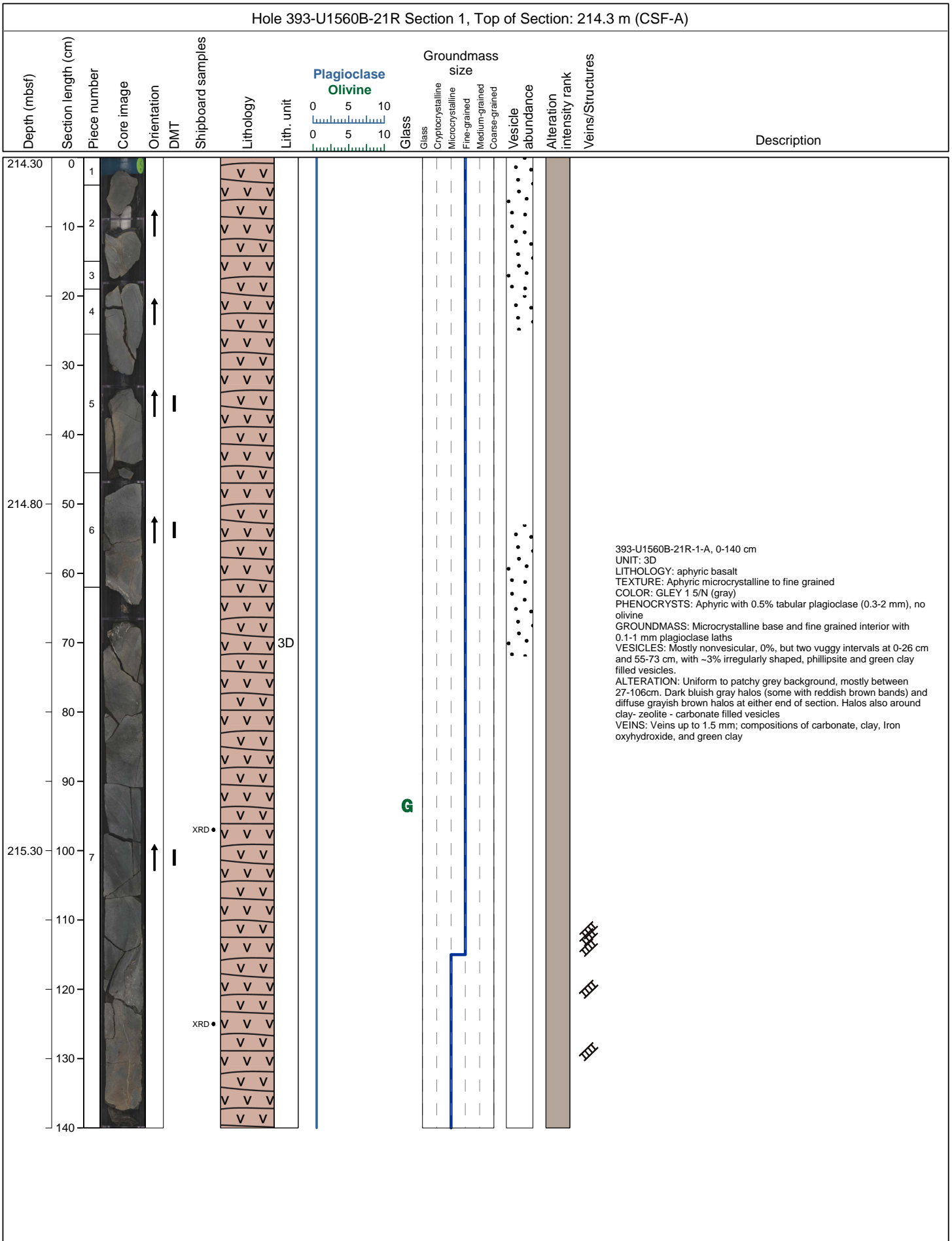






Hole 393-U1560B-20R Section 4, Top of Section: 212.97 m (CSF-A)															
Depth (mbstf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Groundmass size	Abundance	Alteration intensity rank	Veins/Structures	Description	
									0 5 10 0 5 10	Glass Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained					
213.00	0														
	10														
	20														
	30					MAD • PMAG •									
	40	1													
	50					TS TSB ICP MAD • PMAG •									
213.50															
	60														
	70														
	80														
	90	2													
	100														
214.00		3													
	110														

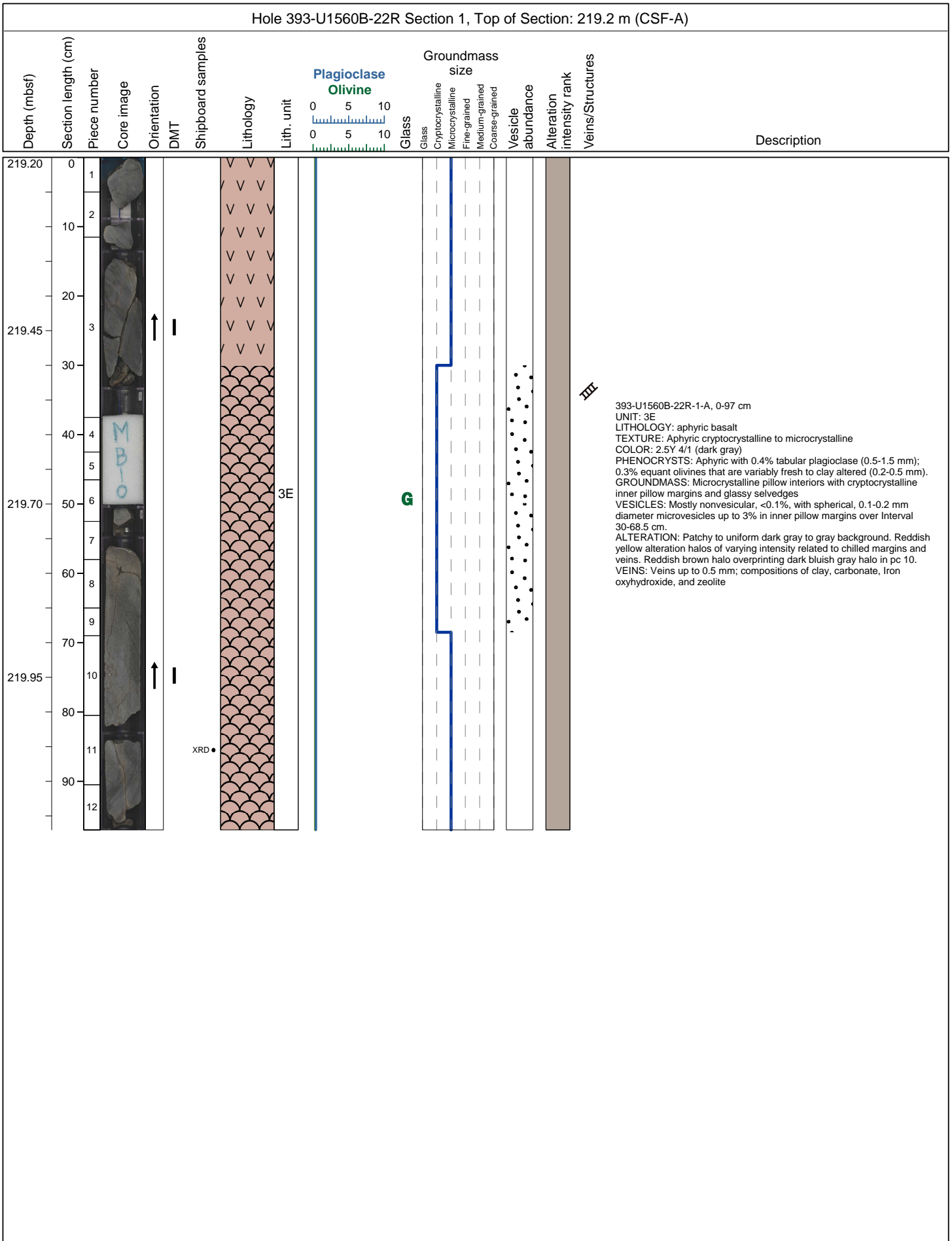
393-U1560B-20R-4-A, 0-112 cm  
 UNIT: 3D  
 LITHOLOGY: aphyric basalt  
 TEXTURE: Aphyric microcrystalline to fine grained  
 COLOR: 2.5Y 4/1 (dark gray)  
 PHENOCRYSTS: Aphyric with 0.5% tabular plagioclase (0.3-2 mm); 0.1% equant olivines that are clay altered (<0.3 mm).  
 GROUNDMASS: Microcrystalline margins and fine grained sheet flow interiors with 0.5-1 mm plagioclase laths  
 VESICLES: Nonvesicular, 0.1%, spherical, 0.1-0.2 mm diameter microvesicles  
 ALTERATION: Patchy background alteration with reddish yellow halos around veins. Wide grayish brown diffuse halos around veins from 12-80cm  
 VEINS: Veins up to 1 mm; compositions of clay, carbonate, and Iron oxyhydroxide.



Hole 393-U1560B-21R Section 2, Top of Section: 215.7 m (CSF-A)																		
Depth (mbstf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase		Groundmass size				Vesicle abundance	Alteration intensity rank	Veins/Structures	Description
									Olivine	Glass	Glass	Cryptocrystalline	Microcrystalline	Fine-grained				
215.70	0	1																
	10	2																
	20	3		↑	I													
	30	4		↑	I													
	40	5		↑	I													
216.20	50																	
	60																	
	70																	
	80	6		↑	I													
	90																	
216.70	100																	
	110																	

393-U1560B-21R-2-A, 0-111 cm  
 UNIT: 3E  
 LITHOLOGY: aphyric basalt  
 TEXTURE: Aphyric cryptocrystalline to microcrystalline  
 COLOR: GLEY 1.5/N (gray)  
 PHENOCRYSTS: Aphyric with 0.5% tabular plagioclase (0.3-2.5 mm)  
 GROUNDMASS: Microcrystalline pillow interiors with cryptocrystalline to glassy margins  
 VESICLES: Nonvesicular, 0.1%, mostly totally vesicle-free but microvesicles are concentrated in the outer few cm of pillows  
 ALTERATION: Uniform background alteration. Greyish brown halos concentrated 38-73cm. Reddish yellow halos around veins and as patch at base of section.  
 VEINS: Veins up to 1.5 mm; compositions of clay, carbonate, Iron oxyhydroxide, and sediment. Brecciated chilled margins with carbonate and sediment cements 49-58 cm.





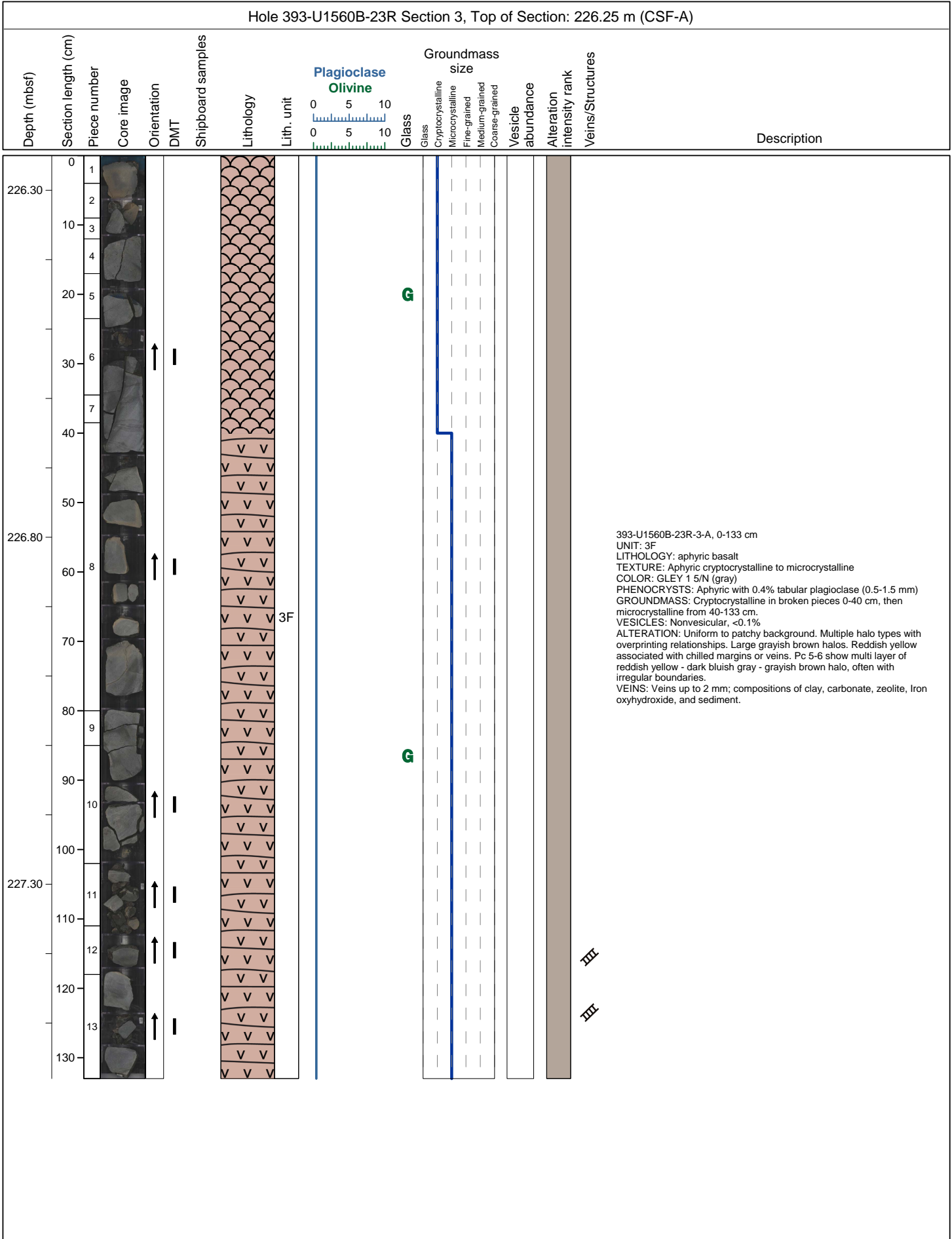
Hole 393-U1560B-23R Section 1, Top of Section: 224.0 m (CSF-A)														
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Vesicle abundance	Alteration intensity rank	Veins/Structures	Description
224.00	0	1		↑										
	10	2												
224.20	20	3		↑										
	30	4		↑	XRD MBIO		3E							
224.40	40	5												
	50	6		↑										
224.60	60	7		↑										
	70	7		↑										

393-U1560B-23R-1-A, 0-75 cm  
 UNIT: 3E  
 LITHOLOGY: aphyric basalt  
 TEXTURE: Aphyric microcrystalline  
 COLOR: 2.5Y 4/1 (dark gray)  
 PHENOCRYSTS: Aphyric with 0.4% tabular plagioclase (0.5-1.5 mm); 0.1% equant olivines that are variably fresh to clay altered (0.2-0.3 mm).  
 GROUNDMASS: Microcrystalline flow interior with cryptocrystalline inner pillow margin and glassy selvage  
 VESICLES: Mostly nonvesicular, <0.1%, with spherical, 0.1-0.2 mm diameter microvesicles in inner pillow margins, and one vuggy interval at 55-61 cm with 2-3% carbonate filled irregular shaped vesicles  
 ALTERATION: Patchy dark grey background. Multiple halo types with multi layers. Inner dark bluish gray halo with outer greyish brown halos. Reddish yellow to dark bluish grey to grayish brown halos in pc 3, 5-6.  
 VEINS: Veins up to 1.5 mm; compositions of clay, carbonate, iron oxyhydroxide, and zeolite

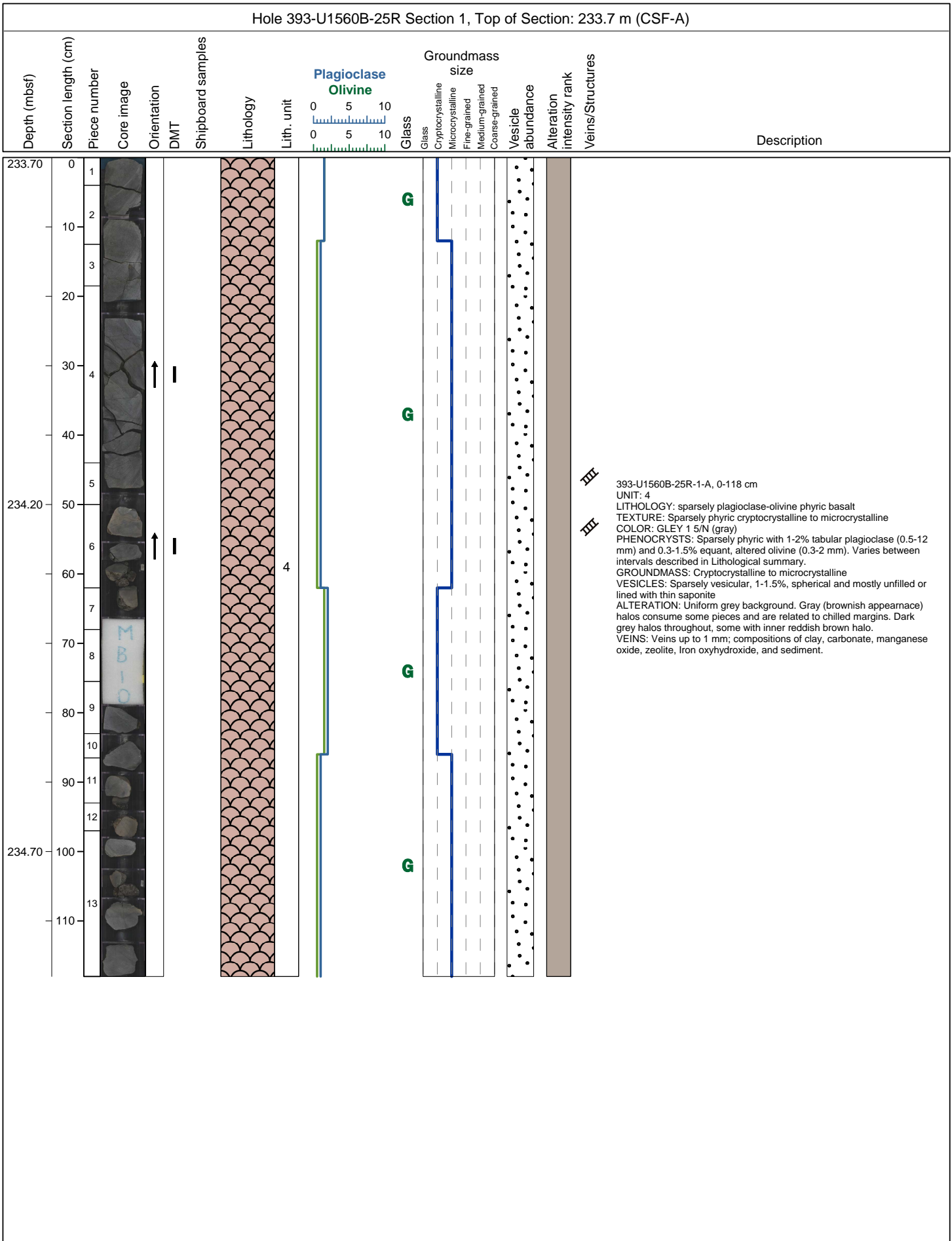
III  
III



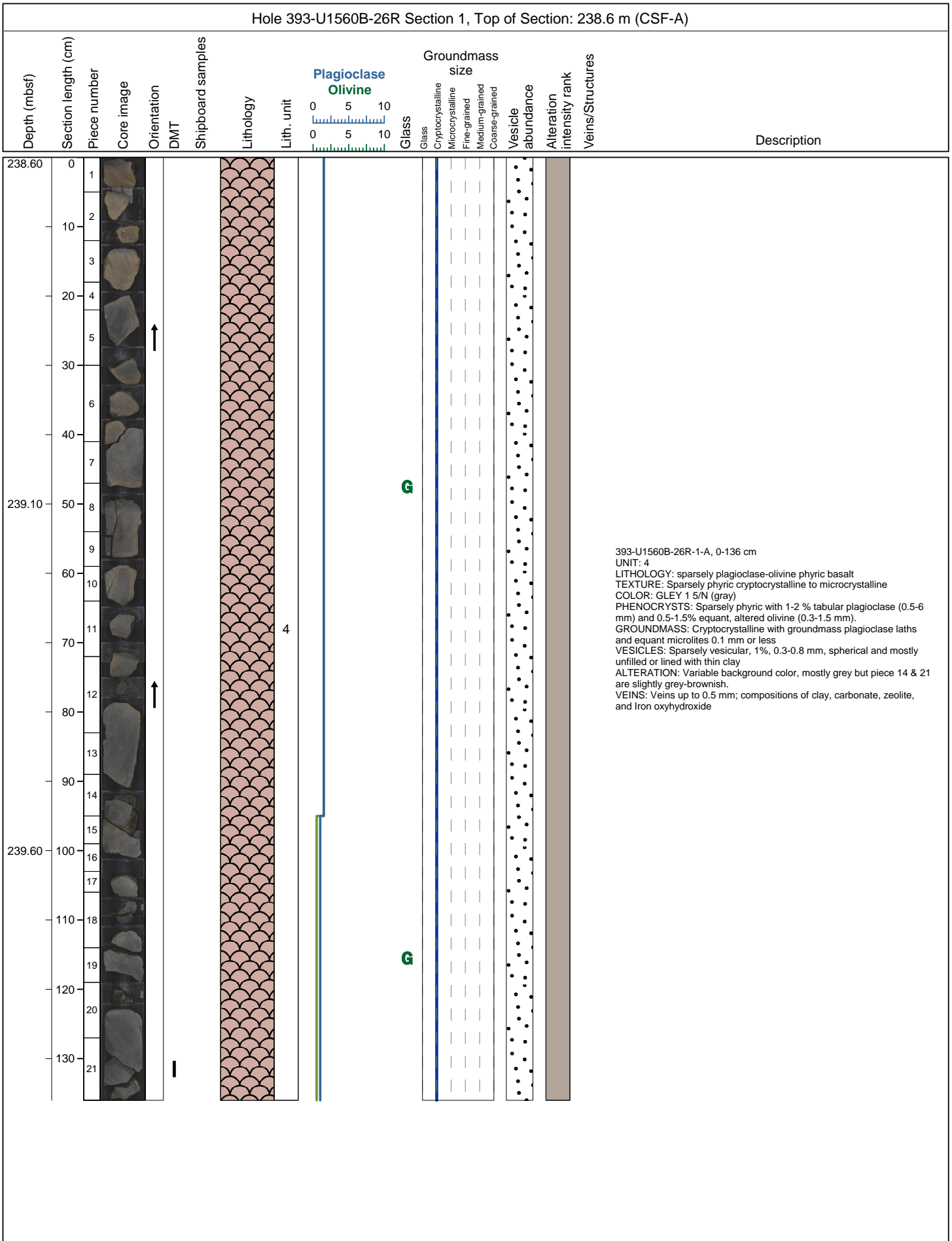


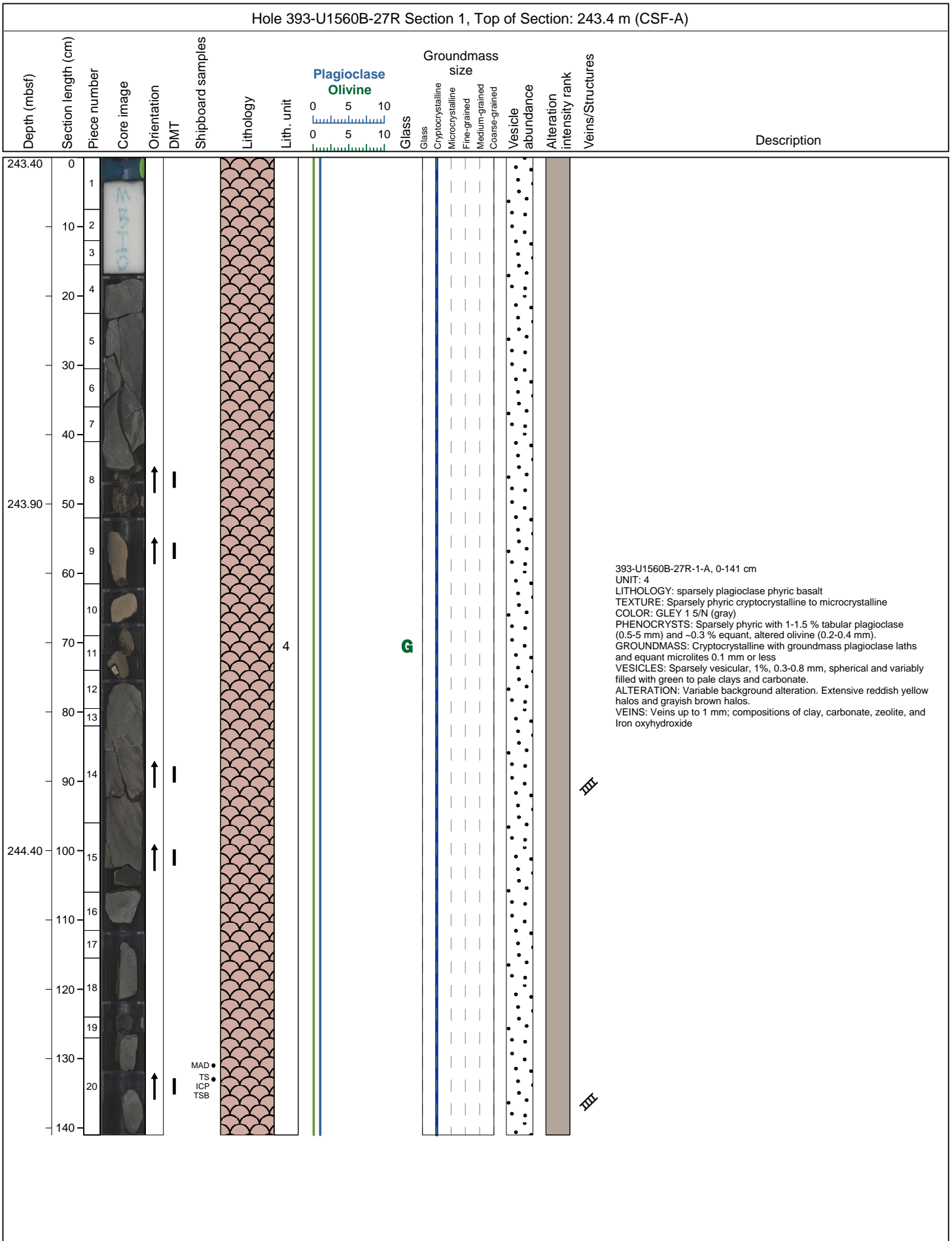






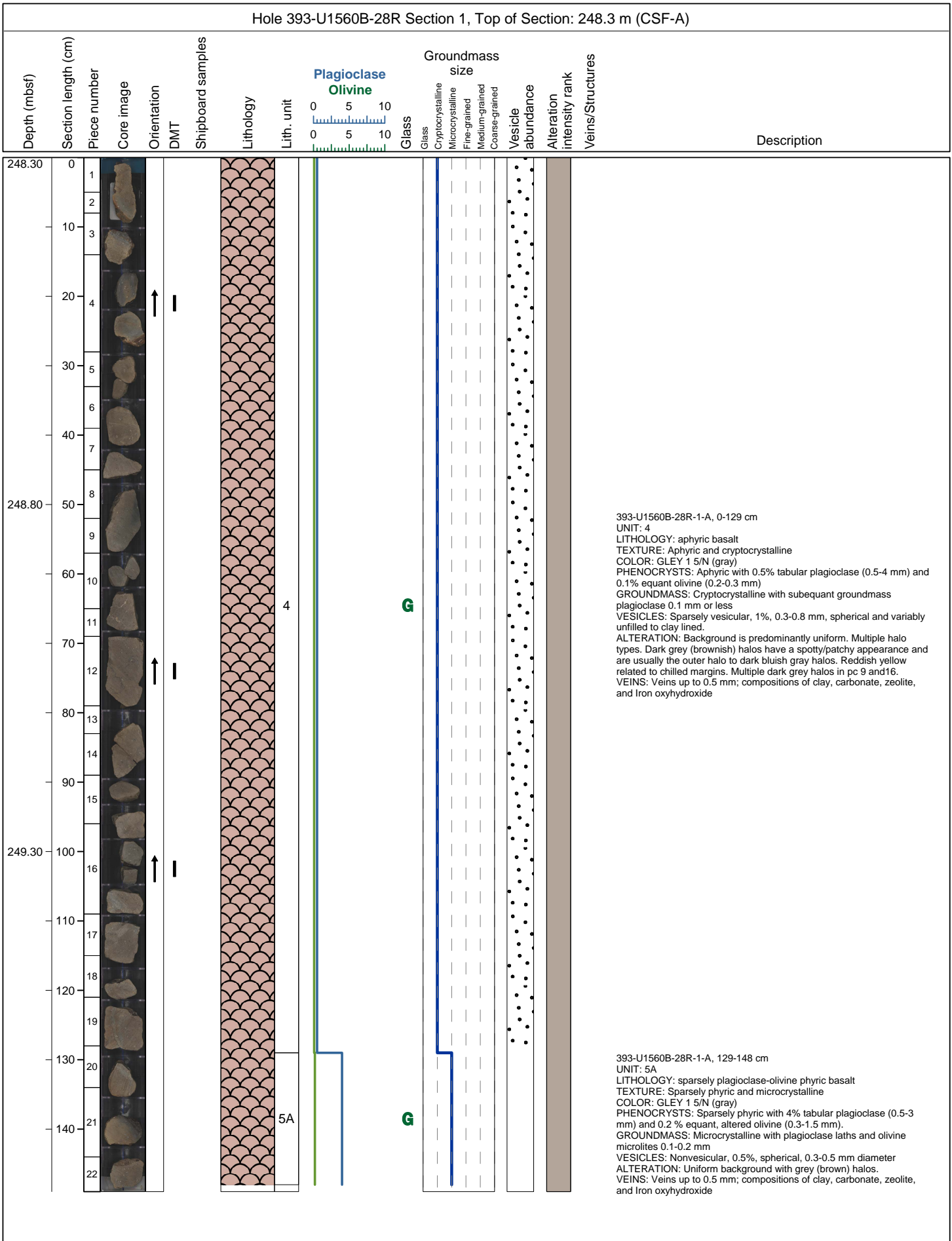




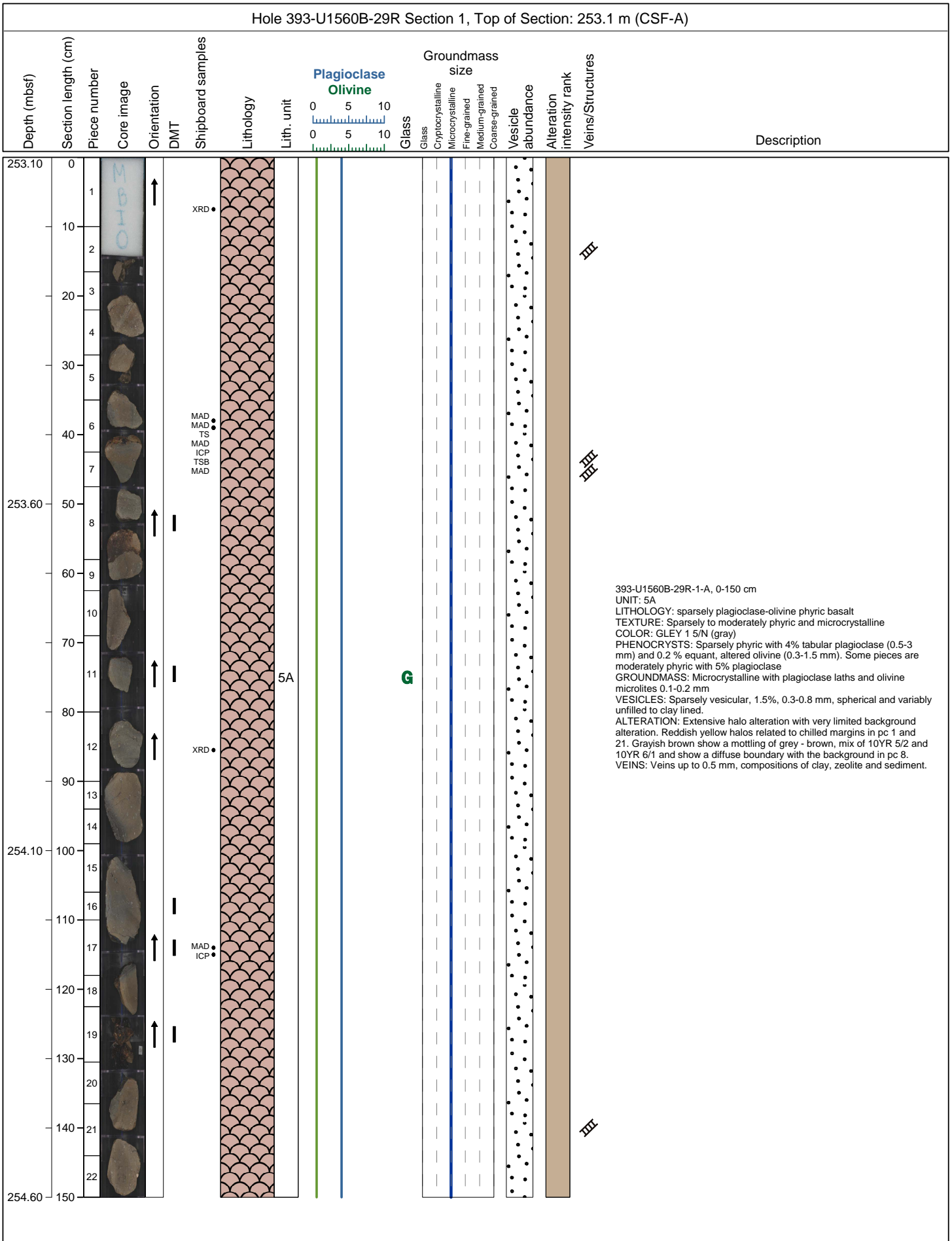


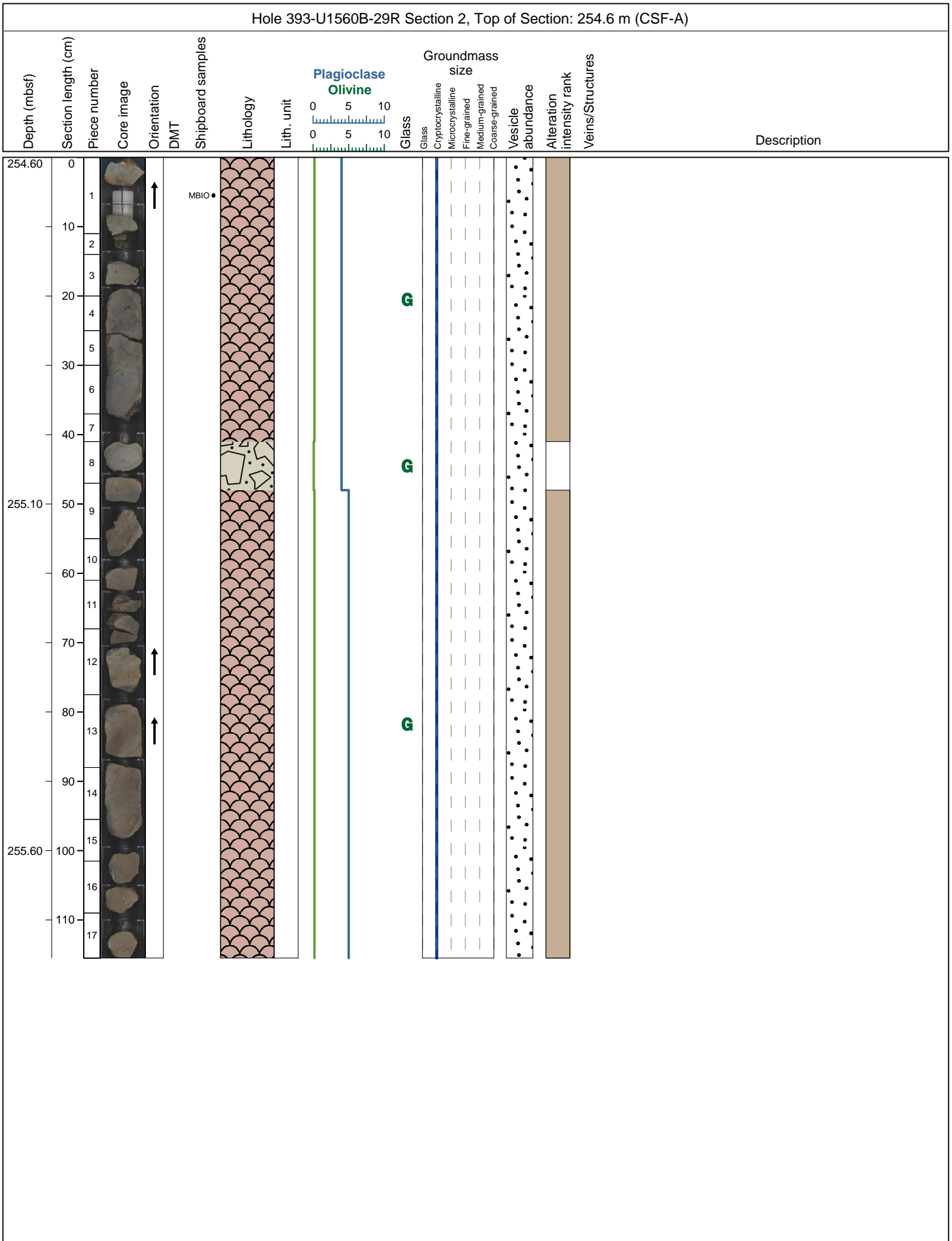


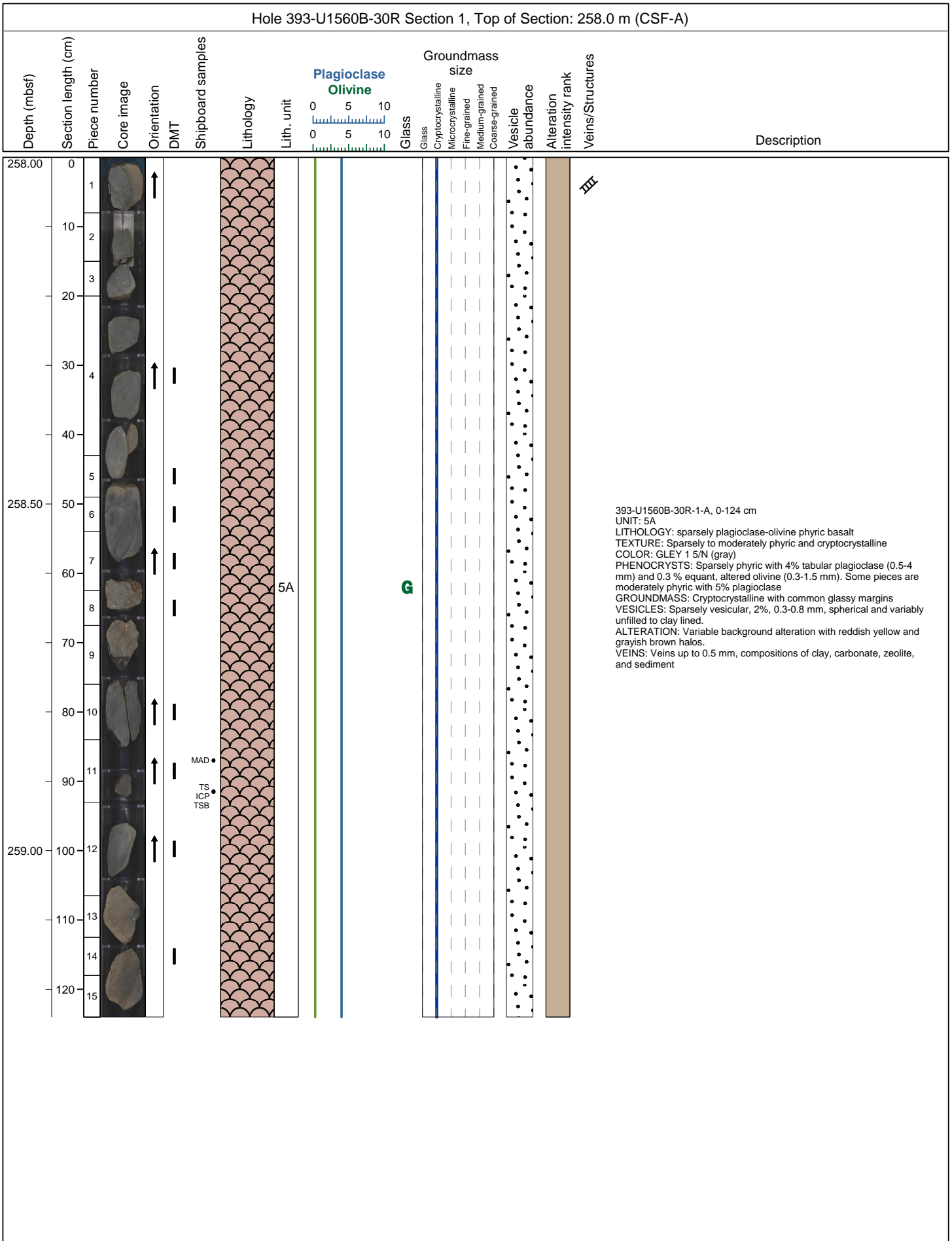




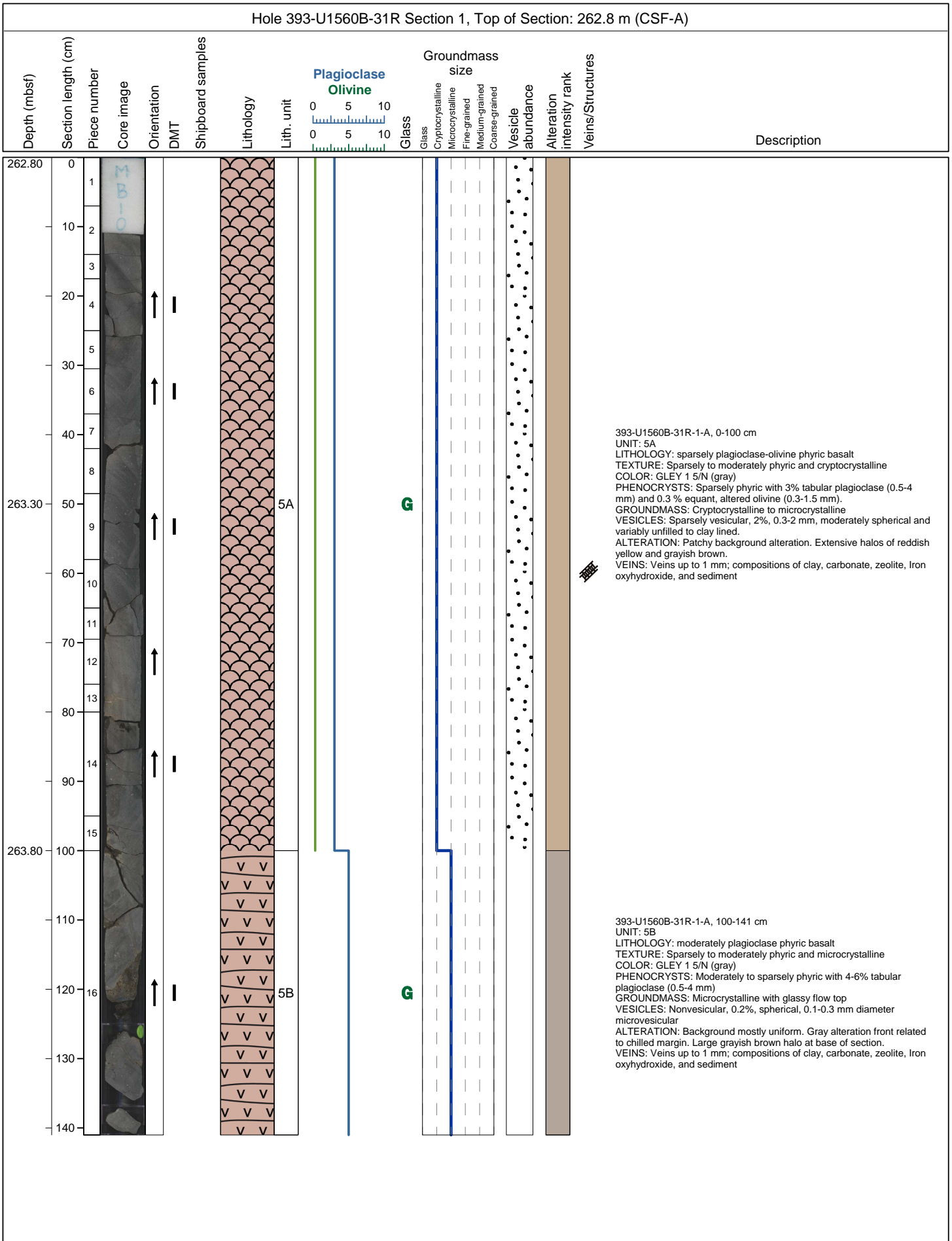




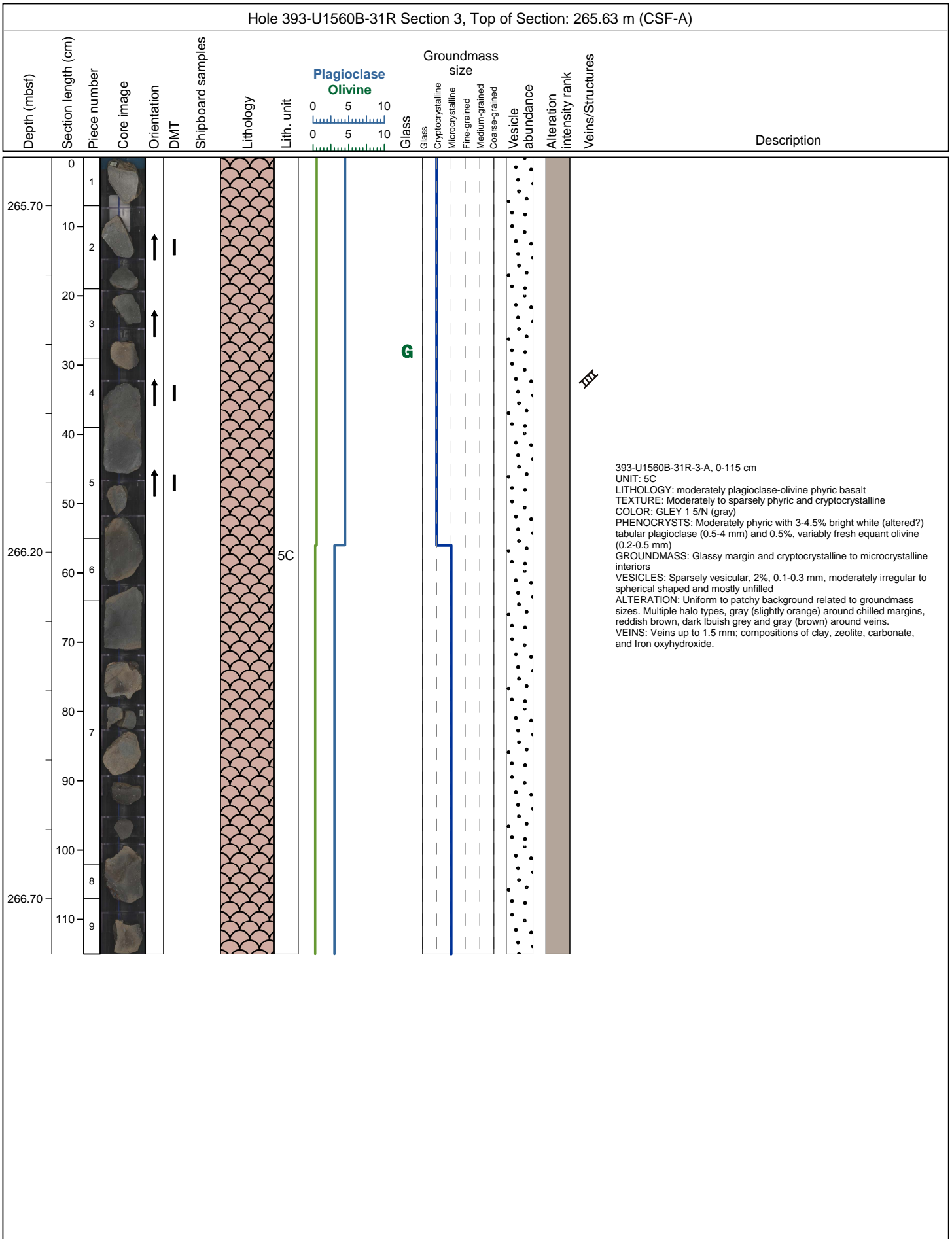




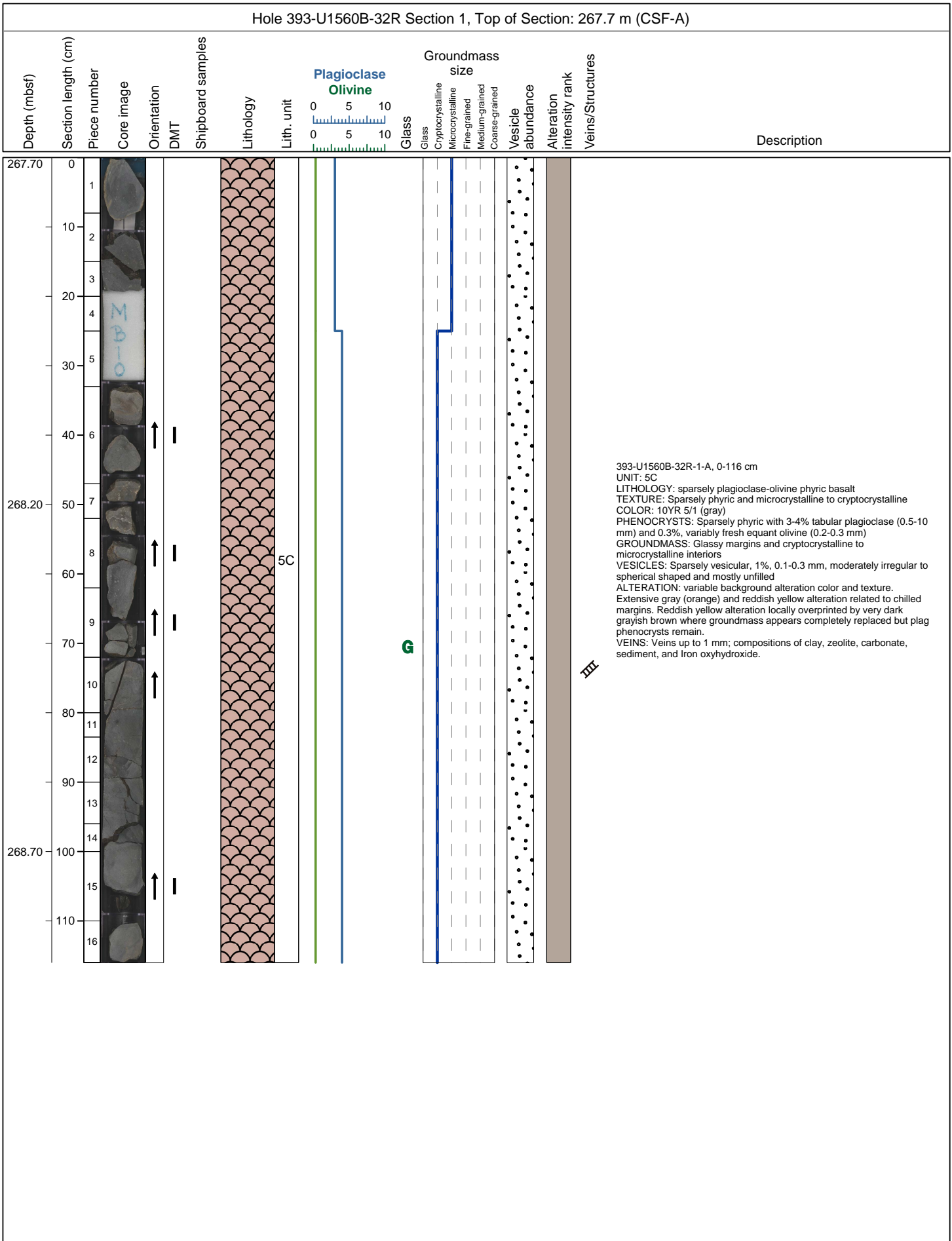
Hole 393-U1560B-30R Section 2, Top of Section: 259.24 m (CSF-A)																
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Vesicle abundance	Alteration intensity rank	Veins/Structures	Description	
									0 5 10 0 5 10		Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained					
259.24	0	1					V V V									<p>393-U1560B-30R-2-A, 0-83 cm                      UNIT: 5A                      LITHOLOGY: sparsely plagioclase-olivine phyric basalt                      TEXTURE: Sparsely to moderately phyric and cryptocrystalline                      COLOR: GLEY 1 5/N (gray)                      PHENOCRYSTS: Sparsely phyric with 3% tabular plagioclase (0.5-4 mm) and 0.3 % equant, altered olivine (0.3-1.5 mm).                      GROUNDMASS: Cryptocrystalline to microcrystalline flow interior                      VESICLES: Sparsely vesicular, 2%, 0.3-2 mm, moderately spherical and variably unfilled to clay lined.                      ALTERATION: Uniform background alteration with multiple halo colours and associations. Halo colours include reddish yellow, grayish brown, light brownish grey and dark grey.                      VEINS: Veins up to 0.5 mm, compositions of clay, carbonate, zeolite, and sediment</p>
	10	2					V V V									
	20	3					V V V									
259.44	20	4					V V V									
	30	5					V V V									
	40	6					V V V									
259.64	40	7					V V V	5A								
	50	8					V V V									
	60	9					V V V									
259.84	60	10					V V V									
	70	11					V V V									
	80	12					V V V									
260.04	80	13					V V V									



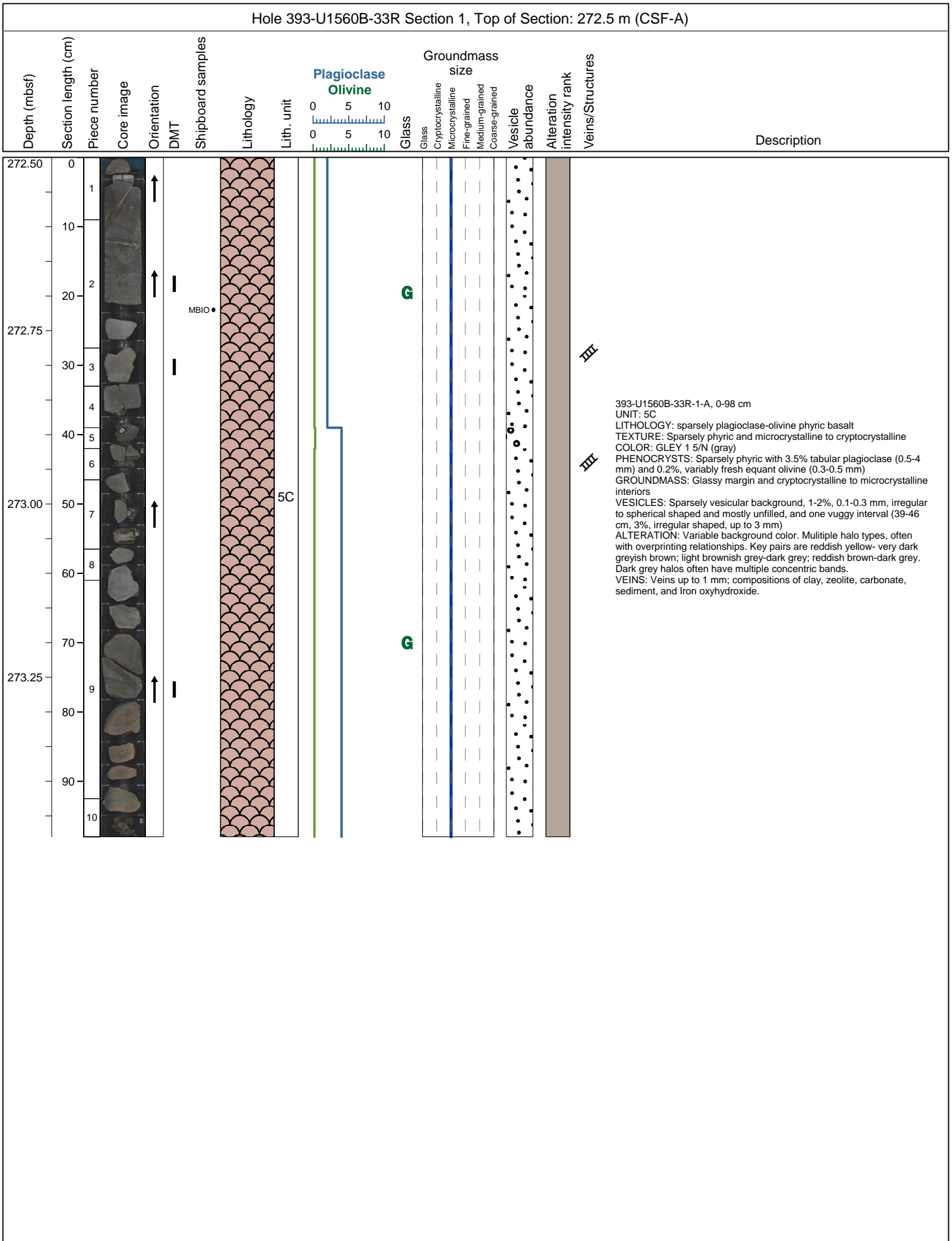
Hole 393-U1560B-31R Section 2, Top of Section: 264.21 m (CSF-A)													
Depth (mbstf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Veins/Structures	Description
									0 5 10 0 5 10	Glass Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained			
0													
264.30	10					MBIO •	V V V						
	20						V V V						
	30						V V V						
	40					XRD •	V V V						
	50						V V V						
264.80	60	1				XRD •	V V V						393-U1560B-31R-2-A, 0-125 cm UNIT: 5B LITHOLOGY: moderately plagioclase phyric basalt TEXTURE: Moderately phyric and microcrystalline COLOR: GLEY 1 5/N (gray) PHENOCRYSTS: Moderately phyric with 4-6% tabular plagioclase (0.5-4 mm) GROUNDMASS: Microcrystalline sheet flow interior, tabular groundmass plagioclase 0.1-0.3 mm long VESICLES: Nonvesicular, <0.1% ALTERATION: Background mostly uniform with green clay filled vesicles. Wde (>20mm) grayish brown has around veins. Sub-veritcal alteration bands between 60-100cm. VEINS: Veins up to 0.5 mm; compositions of clay, green clay, carbonate, and Iron oxyhydroxide.
	70						V V V						
	80						V V V						
	90						V V V						
	100					PMAG MAD	V V V						
	110					MAD ICP PMAG TSB TS	V V V						
265.30	120						V V V						
	130	2					V V V						
	140	3					V V V						393-U1560B-31R-2-A, 125-142 cm UNIT: 5C LITHOLOGY: moderately plagioclase-olivine phyric basalt TEXTURE: Moderately phyric and cryptocrystalline COLOR: GLEY 1 5/N (gray) PHENOCRYSTS: Moderately phyric with 6% tabular plagioclase (0.5-4 mm) and 0.2% equant olivine (0.2-0.4 mm) GROUNDMASS: Glassy margin and cryptocrystalline interior VESICLES: Sparsely vesicular, 1.5%, 0.1-0.3 mm, spherical and unfilled ALTERATION: Uniform background. Low intensity reddish yellow halo around chilled margin. VEINS: Veins up to 0.5 mm; compositions of clay, green clay, carbonate, and Iron oxyhydroxide.

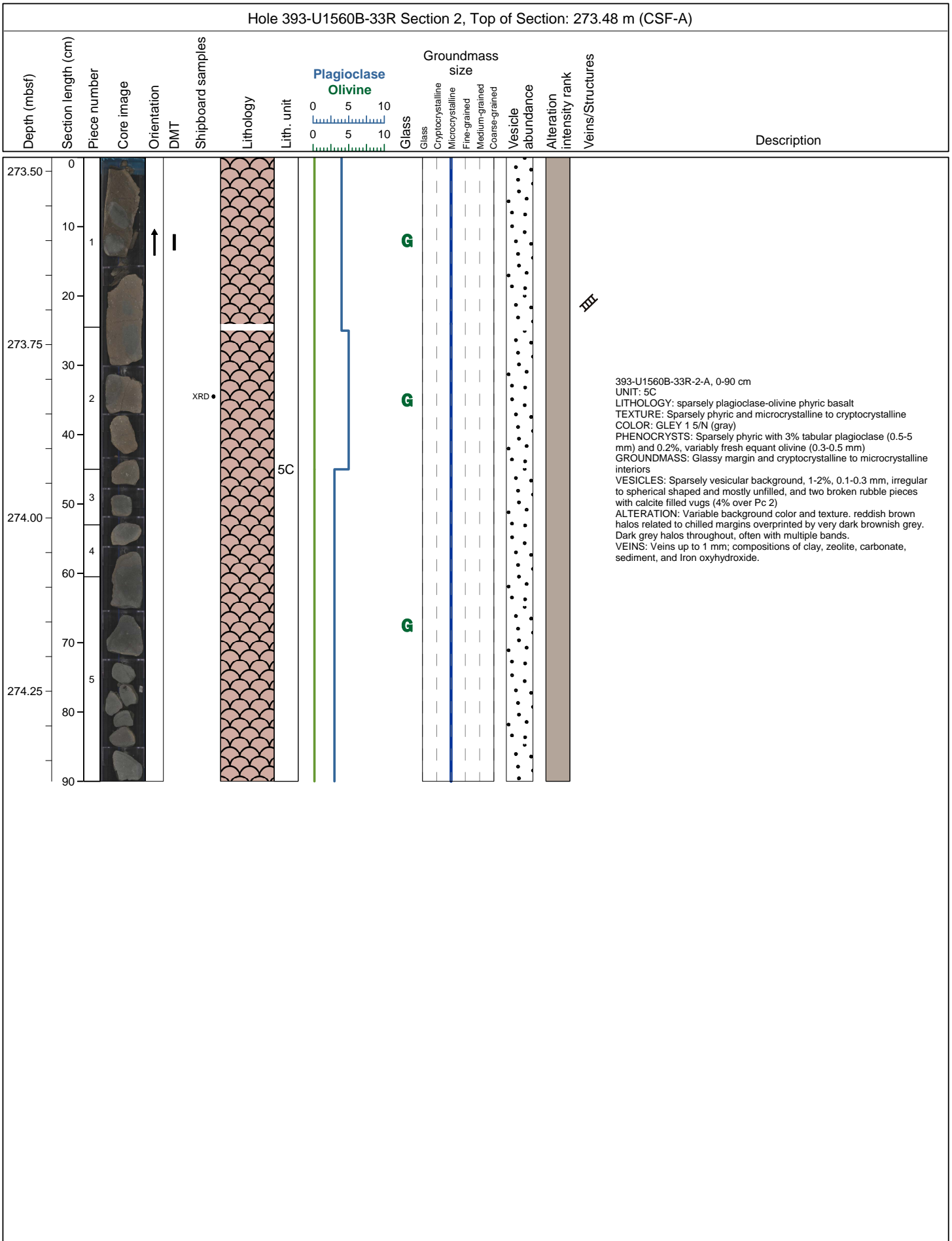






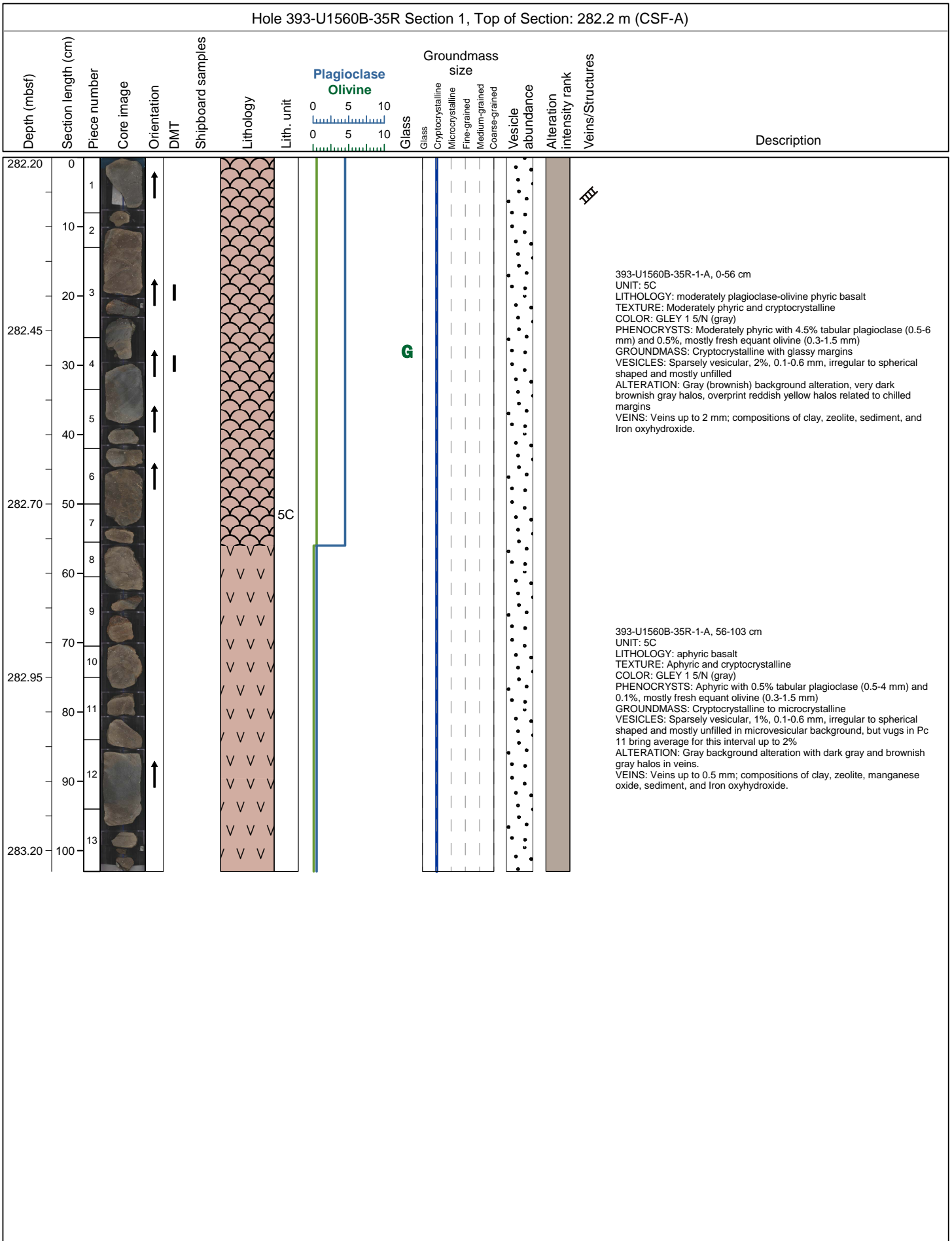






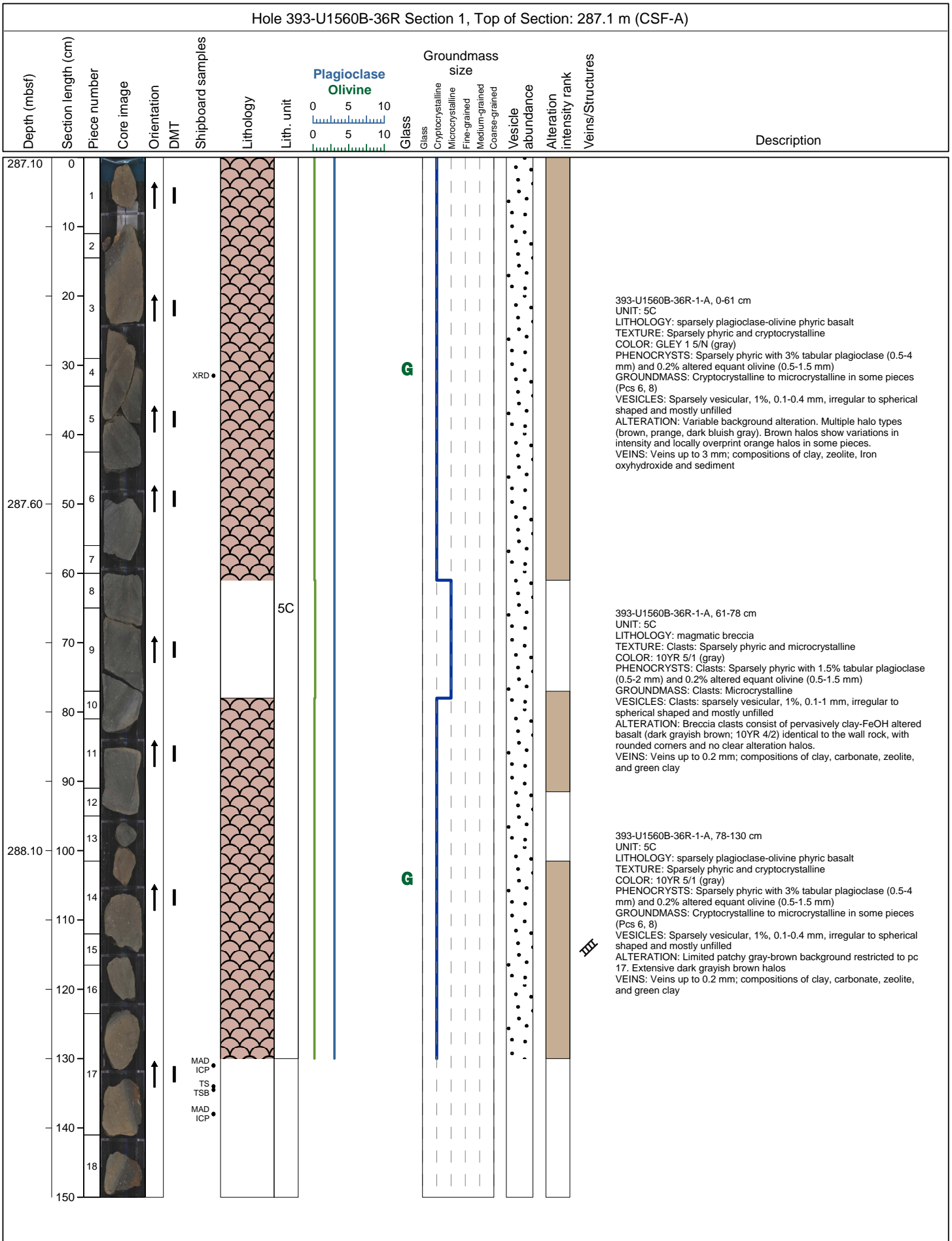


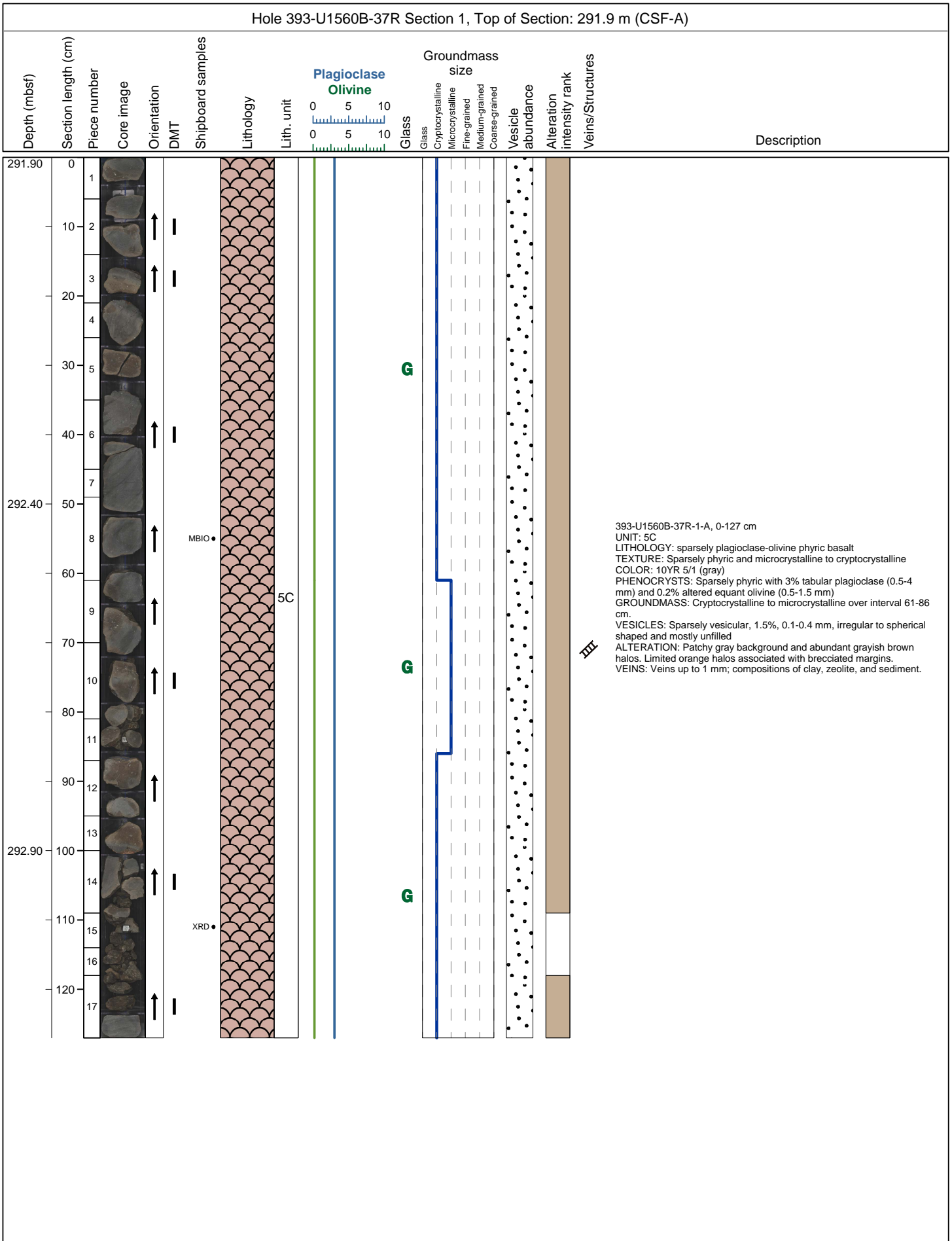
Hole 393-U1560B-34R Section 2, Top of Section: 278.84 m (CSF-A)																
Depth (mbstf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Vesicle abundance	Alteration intensity rank	Veins/Structures	Description	
									0 5 10 0 5 10		Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained					
278.85	0			↑												
	10	1		↑												
279.10	20	2		↑												
	30	3		↑												
	40	4		↑												
279.35	50	5		↑				5C								393-U1560B-34R-2-A, 0-96 cm UNIT: 5C LITHOLOGY: moderately plagioclase-olivine phyric basalt TEXTURE: Moderately phyric and microcrystalline to cryptocrystalline COLOR: GLEY 1 5/N (gray) PHENOCRYSTS: Moderately phyric with 4% tabular plagioclase (0.5-7 mm) and 1%, mostly altered equant olivine (0.3-1.5 mm) GROUNDMASS: Microcrystalline VESICLES: Sparsely vesicular, 3%, 0.1-0.8 mm, irregular to spherical shaped and mostly unfilled ALTERATION: Variable background color and texture. Extensive brown halos 0-51 cm with a range of intensities. VEINS: Veins up to 0.5 mm; compositions of clay, zeolite, manganese oxide, sediment, and Iron oxyhydroxide.
	60	6		↑												
	70	7		↑												
279.60	80	8		↑												
	90	9		↑												
	100	10		↑												
	110	11		↑												

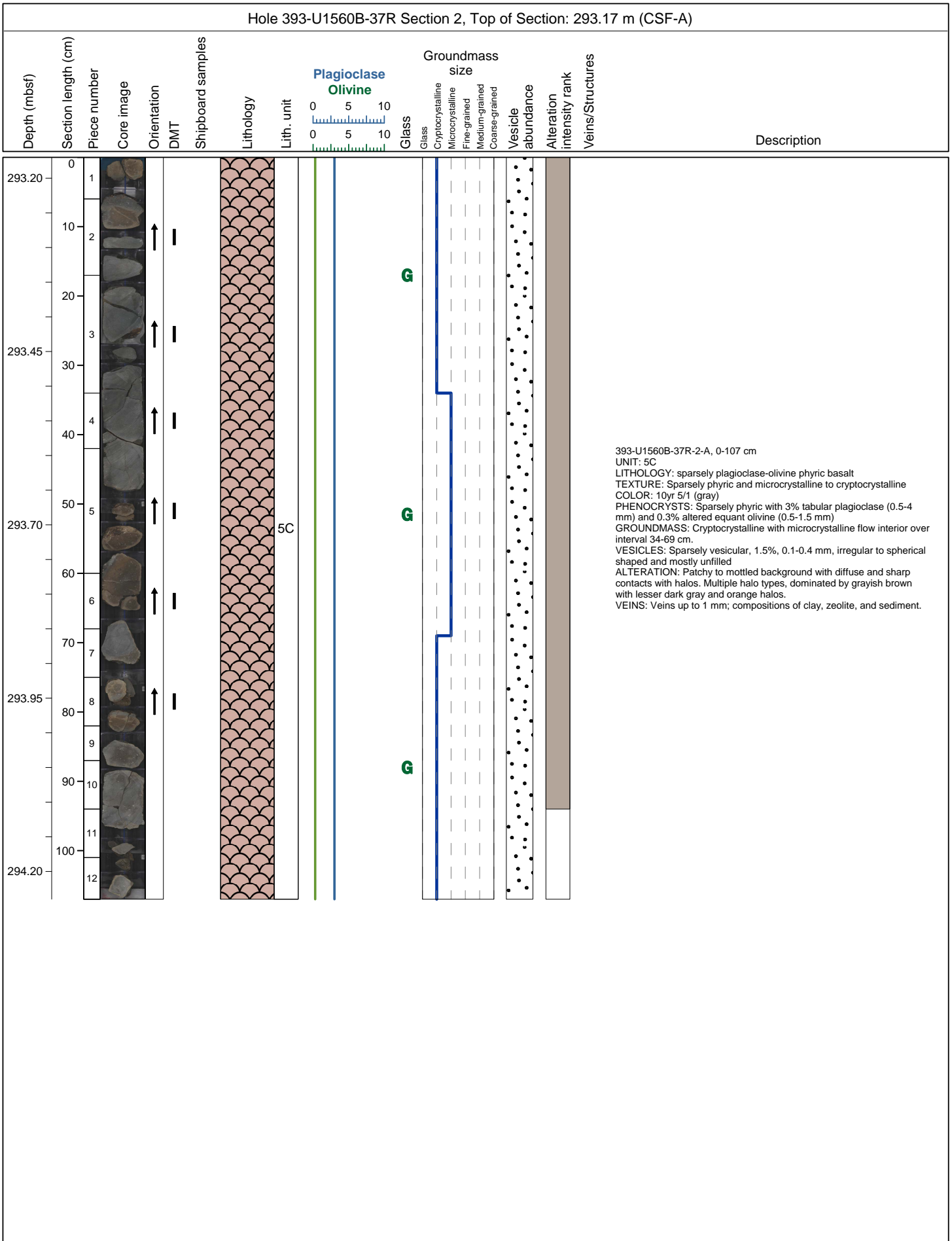


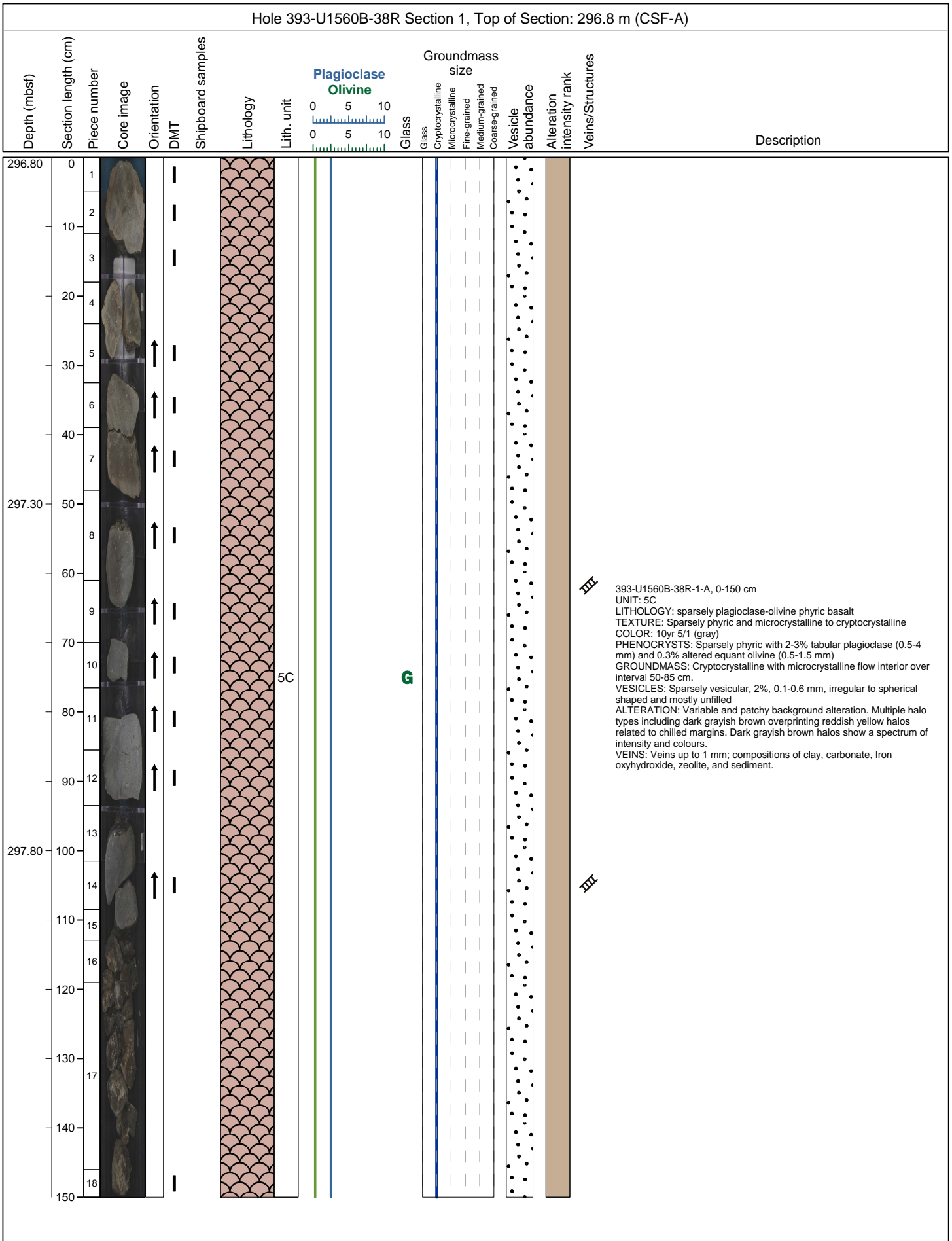


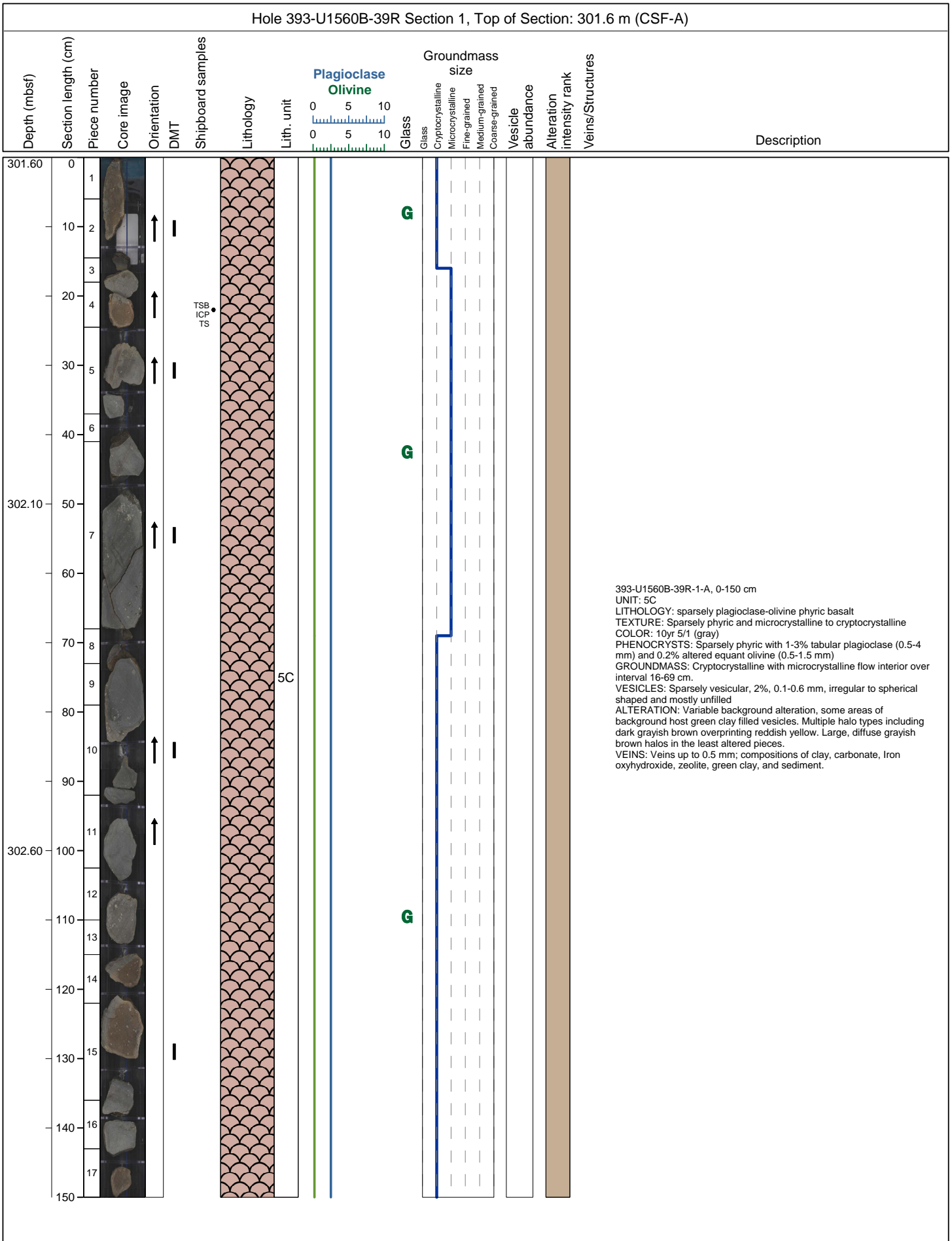
Hole 393-U1560B-35R Section 2, Top of Section: 283.23 m (CSF-A)															
Depth (mbstf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Vesicle abundance	Alteration intensity rank	Veins/Structures	Description
									0 5 10		Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained				
283.24	0	1													<p>393-U1560B-35R-2-A, 0-82 cm                      UNIT: 5C                      LITHOLOGY: sparsely plagioclase-olivine phyric basalt                      TEXTURE: Sparsely phyric and cryptocrystalline                      COLOR: GLEY 1.5/N (gray)                      PHENOCRYSTS: Sparsely phyric with 3% tabular plagioclase (0.5-4 mm) and 0.2% altered equant olivine (0.5-1.5 mm)                      GROUNDMASS: Cryptocrystalline to microcrystalline in some pieces (Pcs 6, 8)                      VESICLES: Sparsely vesicular, 1%, 0.1-0.4 mm, irregular to spherical shaped and mostly unfilled                      ALTERATION: Grey background only in piece 1. Extensive grayish brown halos of varying intensity, sometimes overprinting reddish yellow halos.                      VEINS: Veins up to 1 mm; compositions of clay, zeolite, manganese oxide, sediment, and Iron oxyhydroxide</p>
	10	2													
	20	3													
283.44	20	4													
	30	5													
	40	6													
283.64	40	6													
	50	7													
	60	8													
283.84	60	9													
	70	10													
	80	11													
284.04	80														



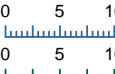

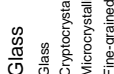
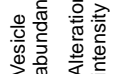










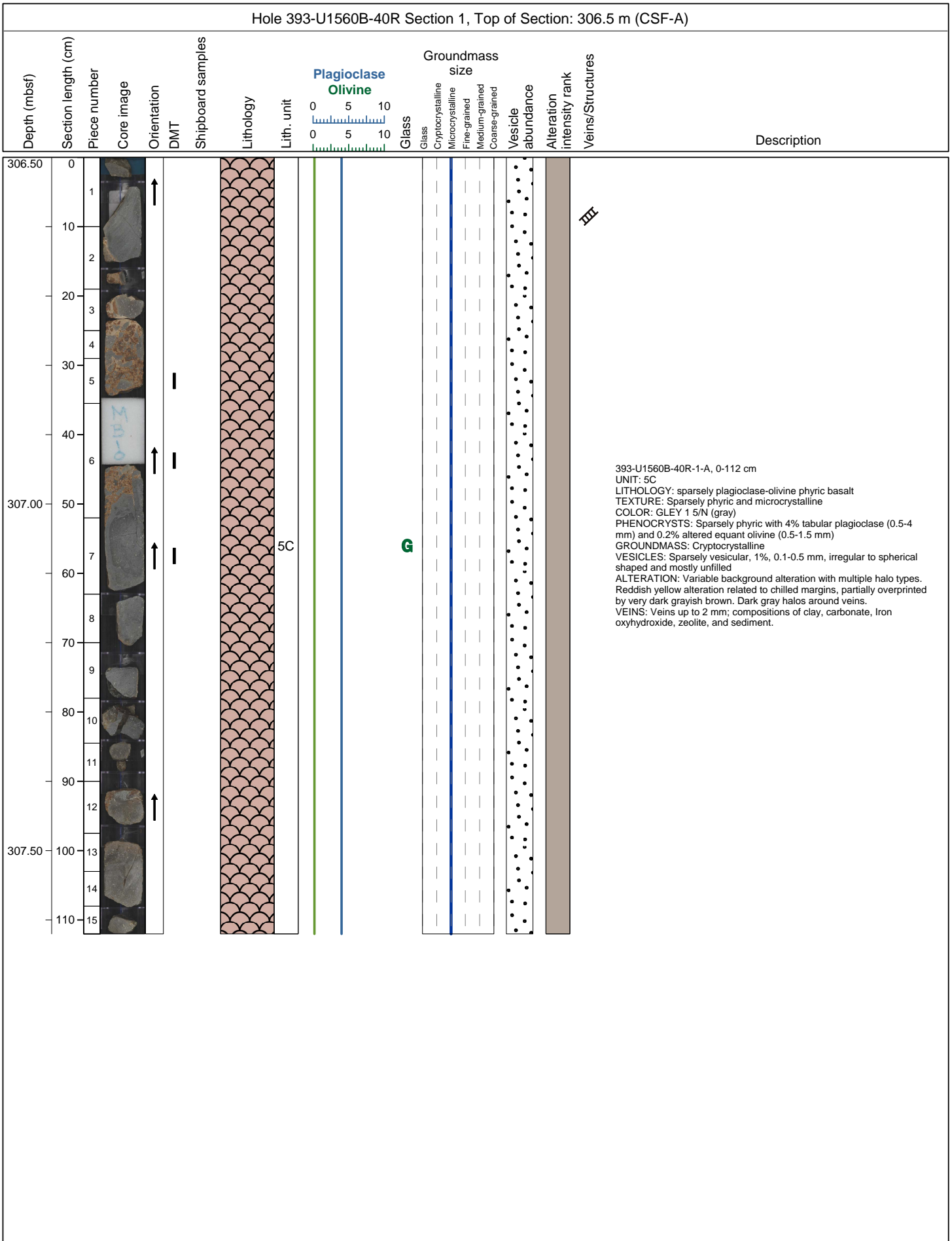








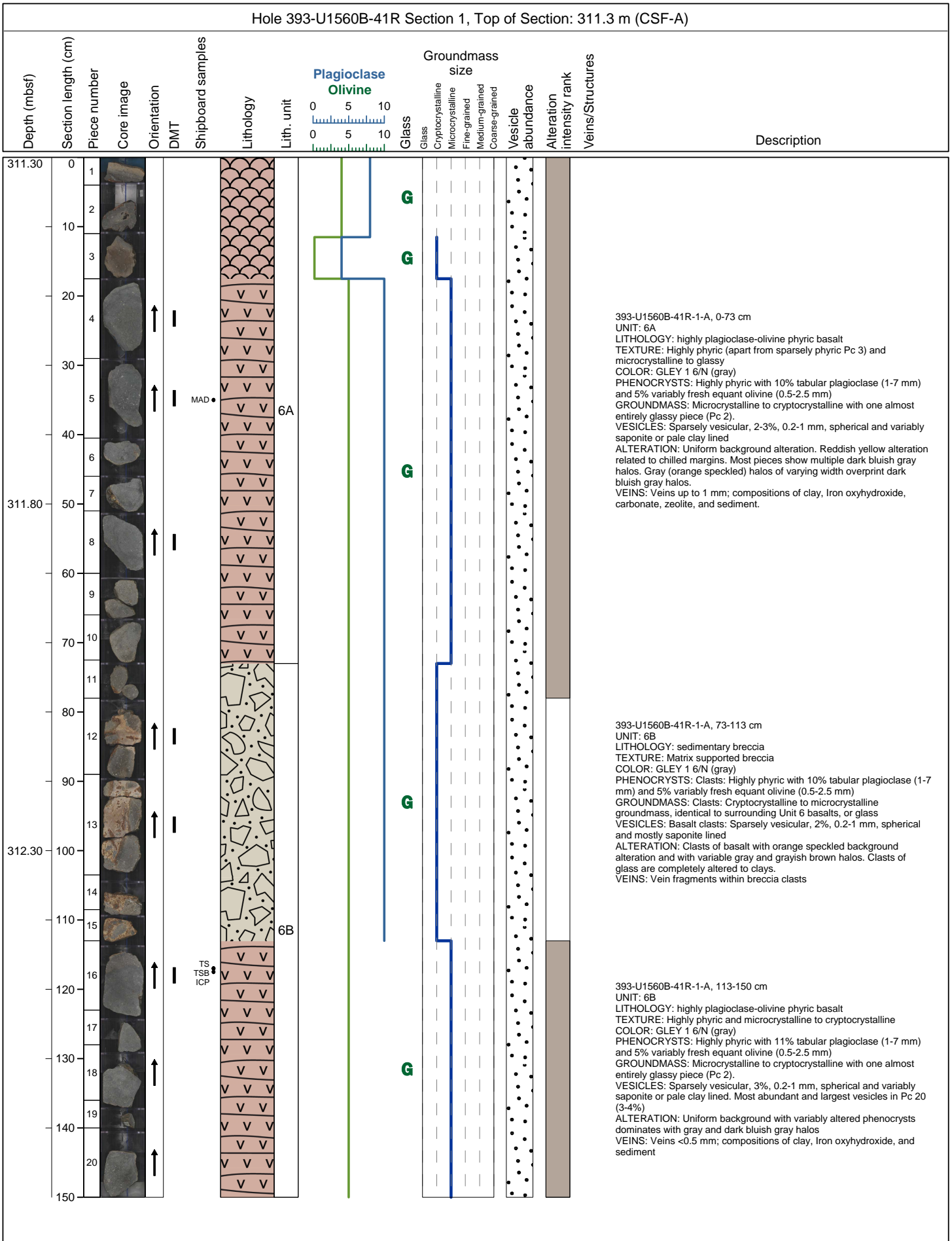


Hole 393-U1560B-39R Section 2, Top of Section: 303.1 m (CSF-A)															
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Vesicle abundance	Alteration intensity rank	Veins/Structures	Description
303.12	0	1						5C							<p>393-U1560B-39R-2-A, 0-57 cm                      UNIT: 5C                      LITHOLOGY: sparsely plagioclase-olivine phyric basalt                      TEXTURE: Sparsely phyric and cryptocrystalline                      COLOR: GLEY 1 5/N (gray)                      PHENOCRYSTS: Sparsely phyric, 1.2 % in upper section and 2.5% in lower section. 1-3% tabular plagioclase (0.5-4 mm) and 0.2% altered equant olivine (0.5-1.5 mm)                      GROUNDMASS: Cryptocrystalline                      VESICLES: Sparsely vesicular, 1-1.5%, 0.1-0.5 mm, irregular to spherical shaped and mostly unfilled                      ALTERATION: Background is uniform and more abundant below 20cm. (Very) dark brownish gray halos are extensive from 0-20cm, piece 3 shows variolitic texture with mixed reddish yellow-brown. Dark grey halos overprinted by dark grayish brown and gray (orange) halos                      VEINS: Veins up to 0.1 mm; compositions of clay, Iron oxyhydroxide, zeolite, and sediment.</p>
	10	2													
	20	3													
303.32	30	4													
	40	5													
	50	6													
303.52	50	7													

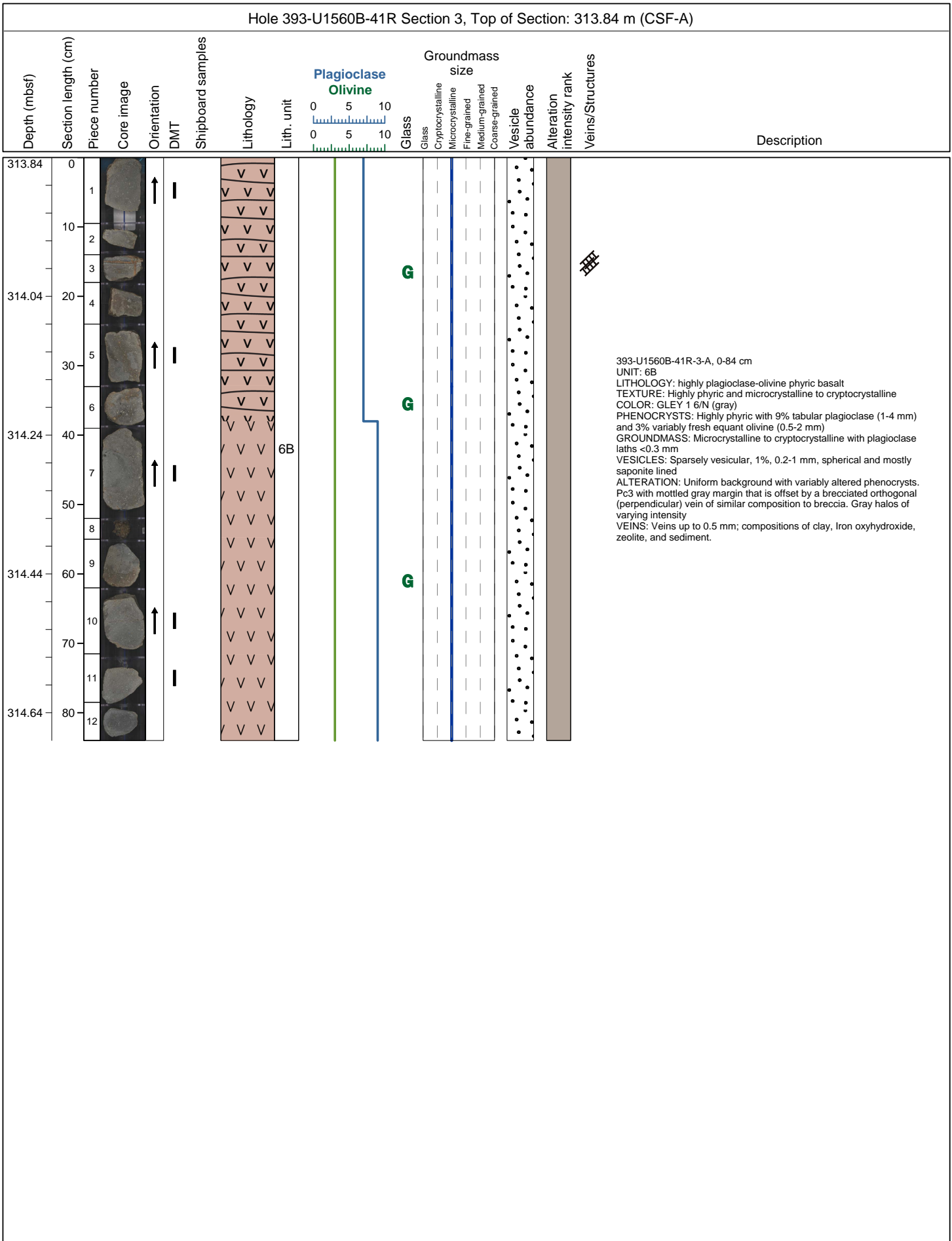




Hole 393-U1560B-40R Section 2, Top of Section: 307.62 m (CSF-A)																
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Vesicle abundance	Alteration intensity rank	Veins/Structures	Description	
307.64	0	1		↑					0							393-U1560B-40R-2-A, 0-41 cm UNIT: 5C LITHOLOGY: sparsely plagioclase-olivine phyric basalt TEXTURE: Sparsely phyric and cryptocrystalline COLOR: GLEY 1 5/N (gray) PHENOCRYSTS: Sparsely phyric with 4% tabular plagioclase (0.5-4 mm) and 0.2% altered equant olivine (0.5-1.5 mm) GROUNDMASS: Cryptocrystalline VESICLES: Sparsely vesicular, 1%, 0.1-0.5 mm, irregular to spherical shaped and mostly unfilled ALTERATION: uniform background alteration with multiple halo types and textures. VEINS: Veins up to 0.5 mm; compositions of clay, Iron oxyhydroxide, zeolite, and sediment.
307.84	20	2						5C	5	G						
308.04	40	6						6A	5	G						393-U1560B-40R-2-A, 41-60 cm UNIT: 6A LITHOLOGY: highly plagioclase-olivine phyric basalt TEXTURE: Highly phyric and microcrystalline COLOR: GLEY 1 6/N (gray) PHENOCRYSTS: Highly phyric with 8% tabular plagioclase (1-4 mm) and 4% mostly fresh equant olivine (0.5-2 mm) GROUNDMASS: Microcrystalline to cryptocrystalline, with plagioclase laths <0.3 mm VESICLES: Sparsely vesicular, 2%, 0.2-1 mm, spherical and mostly saponite lined ALTERATION: uniform background alteration (slightly paler in color). Two halo types, low intensity gray (orange) halo related to chilled margin and multiple 1-3mm wide dark bluish gray. VEINS: Veins up to 0.5 mm; compositions of clay, Iron oxyhydroxide, zeolite, and sediment.
	60	9														

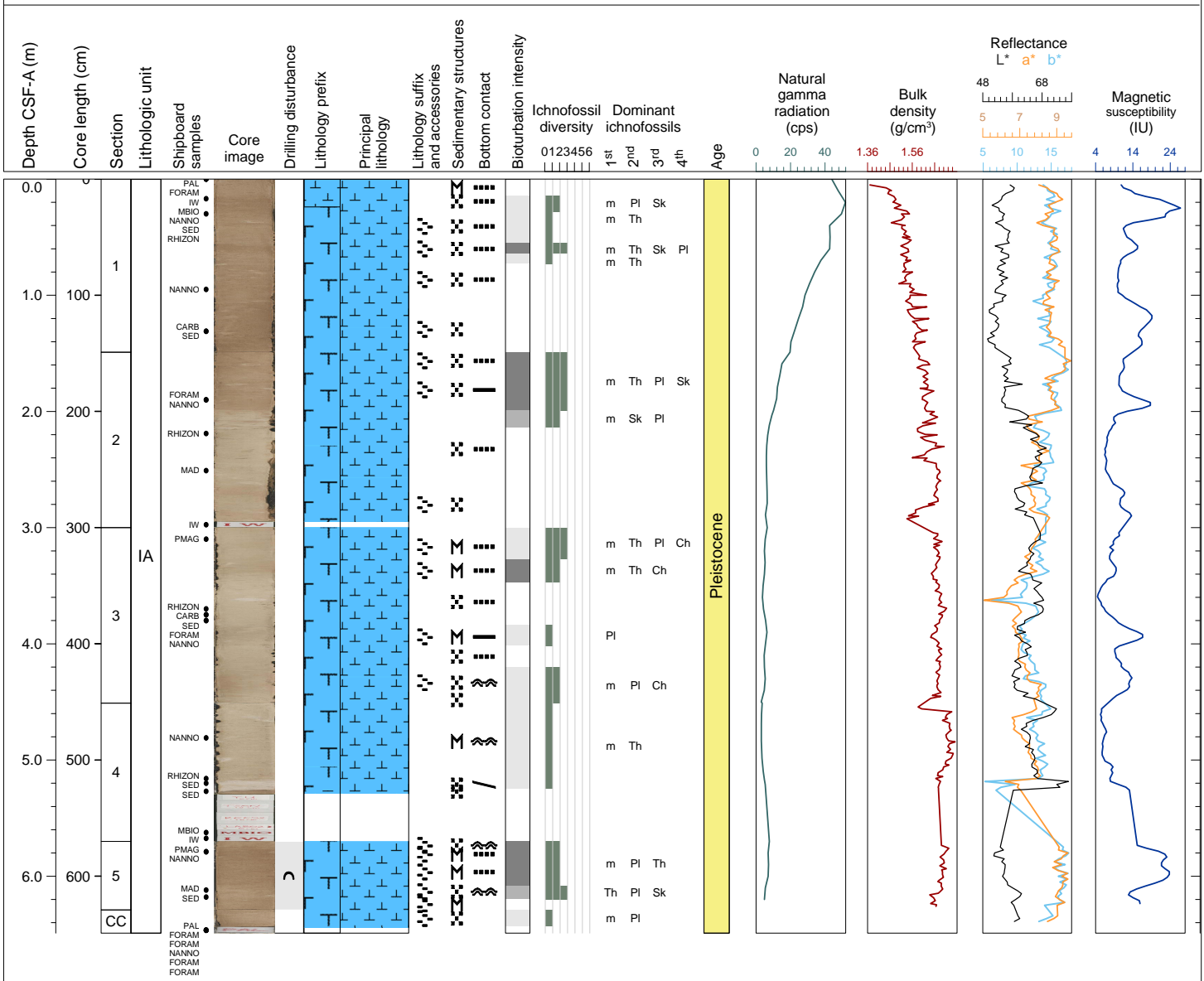


Hole 393-U1560B-41R Section 2, Top of Section: 312.8 m (CSF-A)														
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Groundmass size	Vesicle abundance	Alteration intensity rank	Veins/Structures	Description
									0 5 10 0 5 10	Glass Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained				
312.80	0	1		↑			V V V							393-U1560B-41R-2-A, 0-15 cm UNIT: 6B LITHOLOGY: highly plagioclase-olivine phyric basalt TEXTURE: Highly phyric and microcrystalline to cryptocrystalline COLOR: GLEY 1 6/N (gray) PHENOCRYSTS: Highly phyric with 8% tabular plagioclase (1-4 mm) and 4% variably fresh equant olivine (0.5-2 mm) GROUNDMASS: Microcrystalline to cryptocrystalline with plagioclase laths <0.3 mm VESICLES: Sparsely vesicular, 2%, 0.2-1 mm, spherical and mostly saponite lined ALTERATION: Uniform background with variably altered phenocrysts dominates with gray and dark bluish gray halos. Gray halos overprint dark bluish gray halos. VEINS: Veins up to 1.5 mm; compositions of clay, Iron oxyhydroxide, zeolite, and sediment.
	10	2		↑			V V V							
	20	3		↑			V V V							
313.05	30	4		↑		MBIO ICP MAD	V V V			G				393-U1560B-41R-2-A, 15-46 cm UNIT: 6B LITHOLOGY: sedimentary breccia TEXTURE: Clasts are highly phyric and microcrystalline to cryptocrystalline to glassy COLOR: GLEY 1 6/N (gray) PHENOCRYSTS: Clasts are highly phyric with 8% tabular plagioclase (1-4 mm) and 4% variably fresh equant olivine (0.5-2 mm) GROUNDMASS: Clasts are microcrystalline to cryptocrystalline to glassy VESICLES: Clasts: Sparsely vesicular, 2%, 0.2-1 mm, spherical and mostly saponite lined ALTERATION: Clasts of basalt preserve no background alteration and are fragments of grayish brown alteration halos. VEINS: Veins up to 1.5 mm; compositions of clay, Iron oxyhydroxide, zeolite, and sediment.
	40			↑			V V V							
313.30	50	5		↑			V V V							393-U1560B-41R-2-A, 46-82 cm UNIT: 6B LITHOLOGY: highly plagioclase-olivine phyric basalt TEXTURE: Highly phyric and microcrystalline to cryptocrystalline COLOR: GLEY 1 6/N (gray) PHENOCRYSTS: Highly phyric with 8% tabular plagioclase (1-4 mm) and 4% variably fresh equant olivine (0.5-2 mm) GROUNDMASS: Microcrystalline to cryptocrystalline with plagioclase laths <0.3 mm VESICLES: Sparsely vesicular, 2%, 0.2-1 mm, spherical and mostly saponite lined ALTERATION: Uniform background with variably altered phenocrysts dominates with gray and dark bluish gray halos. Gray halos overprint dark bluish gray halos. VEINS: Veins up to 1.5 mm; compositions of clay, Iron oxyhydroxide, zeolite, and sediment.
	60	6		↑			V V V							
	70	7		↑			V V V							
313.55	80	8		↑			V V V							
	90	9		↑			V V V			G				393-U1560B-41R-2-A, 82-89 cm UNIT: 6B LITHOLOGY: sedimentary breccia TEXTURE: Clasts are microcrystalline to cryptocrystalline to glassy COLOR: GLEY 1 6/N (gray) PHENOCRYSTS: Clasts are highly phyric with 8% tabular plagioclase (1-4 mm) and 4% variably fresh equant olivine (0.5-2 mm) GROUNDMASS: Clasts are microcrystalline to cryptocrystalline to glassy VESICLES: Clasts: Sparsely vesicular, 2%, 0.2-1 mm, spherical and mostly saponite lined ALTERATION: Clasts of variable alteration including gray background and mottled gray background. Glass clasts completely altered. VEINS: Veins up to 1.5 mm; compositions of clay, Iron oxyhydroxide, zeolite, and sediment.
	100	10		↑			V V V							
313.80	100	11		↑			V V V			G				393-U1560B-41R-2-A, 89-104 cm UNIT: 6B LITHOLOGY: highly plagioclase-olivine phyric basalt TEXTURE: Highly phyric and microcrystalline to cryptocrystalline COLOR: GLEY 1 6/N (gray) PHENOCRYSTS: Highly phyric with 8% tabular plagioclase (1-4 mm) and 4% variably fresh equant olivine (0.5-2 mm) GROUNDMASS: Microcrystalline to cryptocrystalline with plagioclase laths <0.3 mm VESICLES: Sparsely vesicular, 2%, 0.2-1 mm, spherical and mostly saponite lined ALTERATION: No background preserved. Multiple overprinting halos; reddish yellow overprints gray and gray overprints dark gray. Multiple dark gray halos - all with overprints. VEINS: Veins up to 1.5 mm; compositions of clay, Iron oxyhydroxide, zeolite, and sediment.



Hole 393-U1560C Core 1H, Interval 0.0-6.49 m (CSF-A)

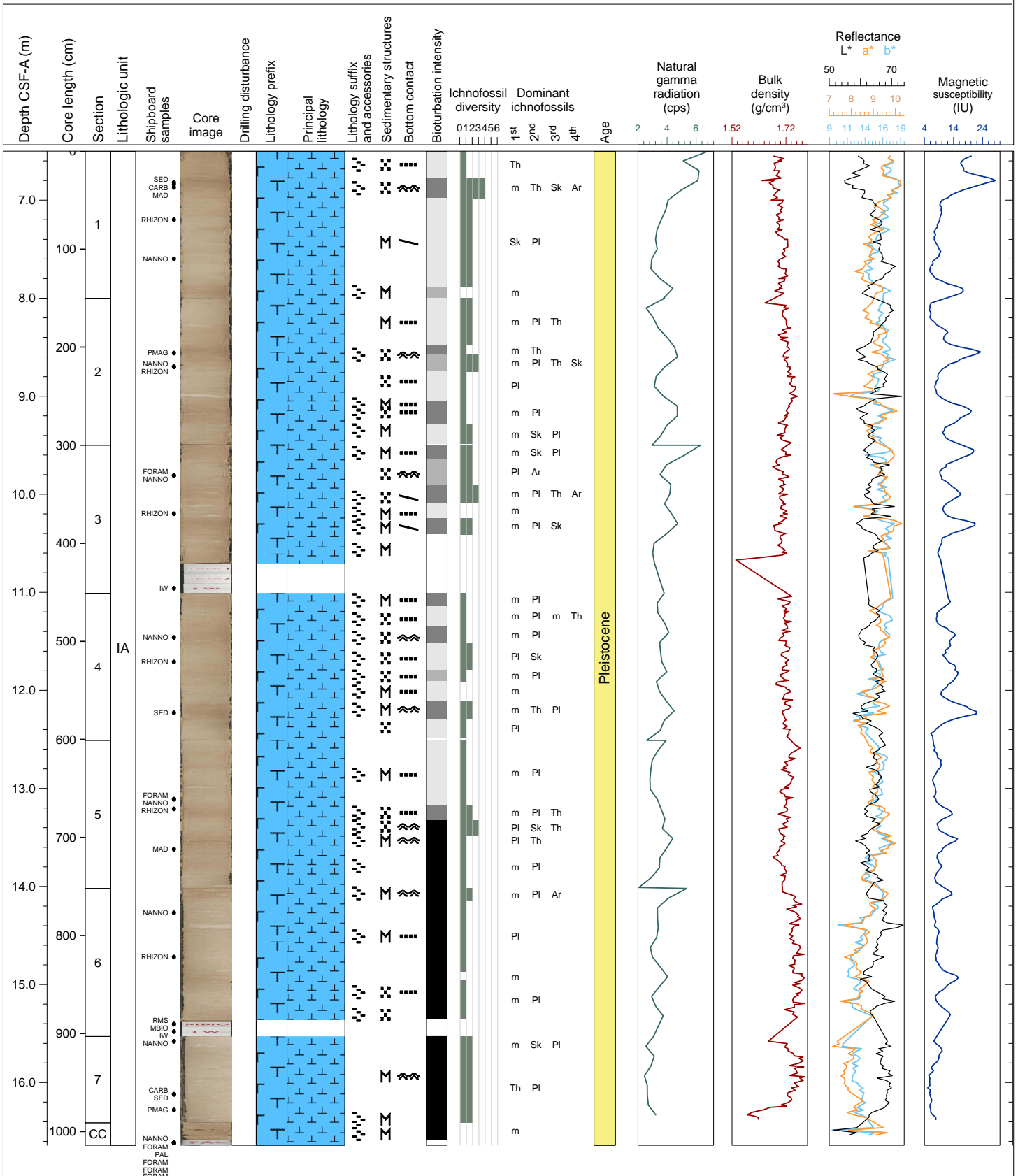
Core U1560C-1H consists of pink (7.5YR 7/4) to light brown (7.5YR 6/4) medium to thick beds of foraminiferal nanofossil ooze with clay becoming interbedded with pinkish white (7.5YR 8/2) to occasionally white (7.5YR 8/1) foraminiferal nanofossil ooze between sections 2 at 50 cm and section 4 at 75 cm where it returns to a pink, (7.5YR 7/4) light brown (7.5YR 6/4) to pale brown (10YR 6/3) foraminiferal nanofossil ooze with clay to the bottom of the core. Lithologic contacts are mainly gradational but range from bioturbated to planar to occasionally sharp. Biogenic mottling is the dominant sedimentary structure with medium to thick massive beds occurring sporadically. Distinct ichnogenera include *Thalassinoides*, *Planolites*, *Chondrites* and *Skolithos*. Ichnofossil diversity ranges from 0 to 3 and the maximum diameter ranges from 3 to 15 mm. Drilling disturbances are none except for slight up arching in section 5 between 0 and 59 cm.





Hole 393-U1560C Core 2H, Interval 6.5-16.64 m (CSF-A)

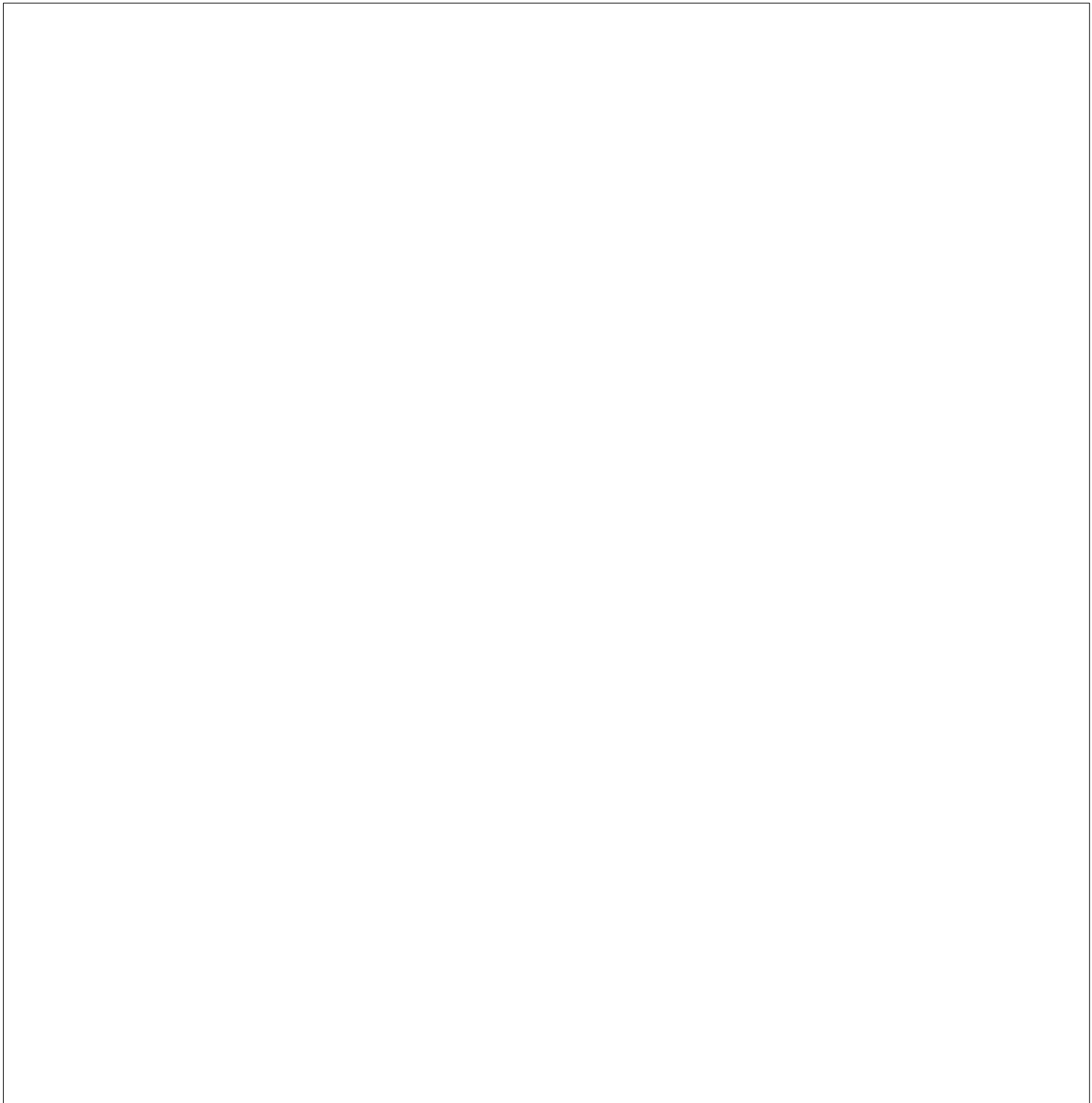
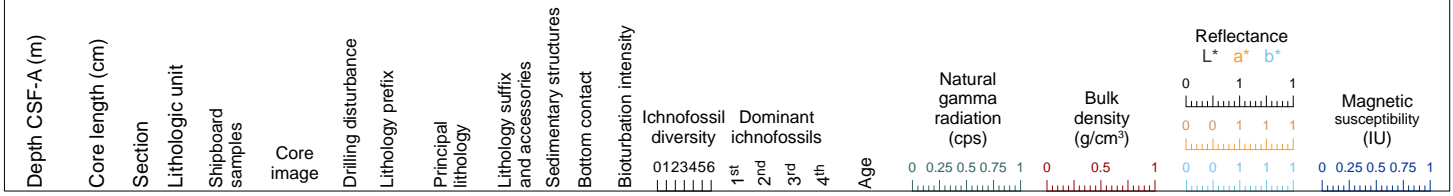
Core U1560C-2H consists of interbedded pink (7.5YR 7/4) to light brown (7.5YR 6/4) foraminiferal nannofossil ooze with clay and pink (7.5YR 7/4, 8/3) and pinkish white (7.5YR 8/2) foraminiferal nannofossil ooze. The lithologic contacts are typically gradational and bioturbated and occasionally sharp. Sedimentary structures alternate between decimeter-thick mottling and massive bedding. When biogenic mottling is present bioturbation intensity ranges from sparse to moderate. Distinct ichnogenera including Planolites, Thalassinoides Skolithos and Arenicolites are present. Diversity ranges from 1 to 4 ichnogenera and the maximum diameter ranges from 3 to 20 mm. No drilling disturbances were observed in this core.





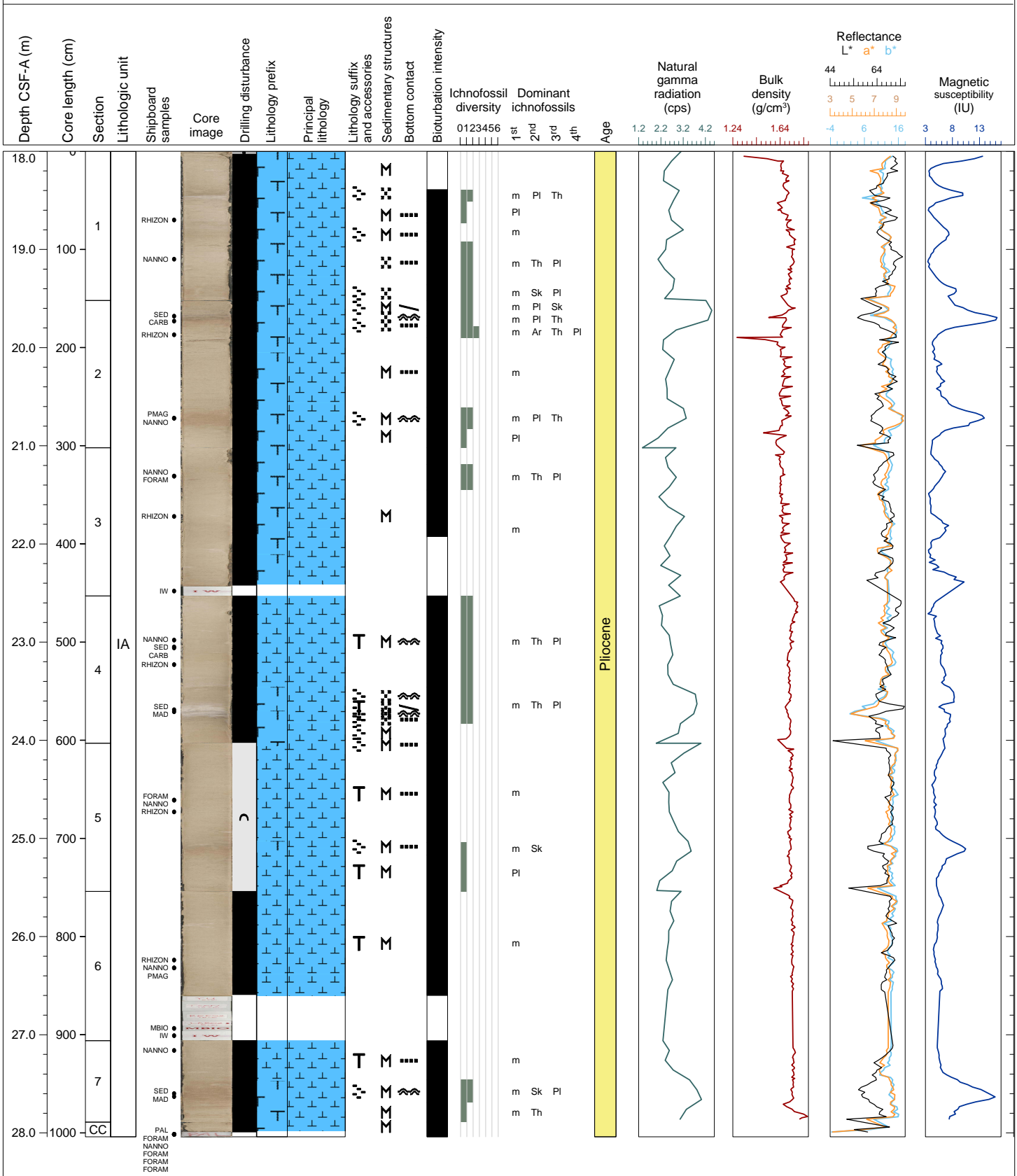
Hole 393-U1560C Core 31, Interval 16.0-16.0 m (CSF-A)

DRILLED INTERVAL 16.0-18.0 m



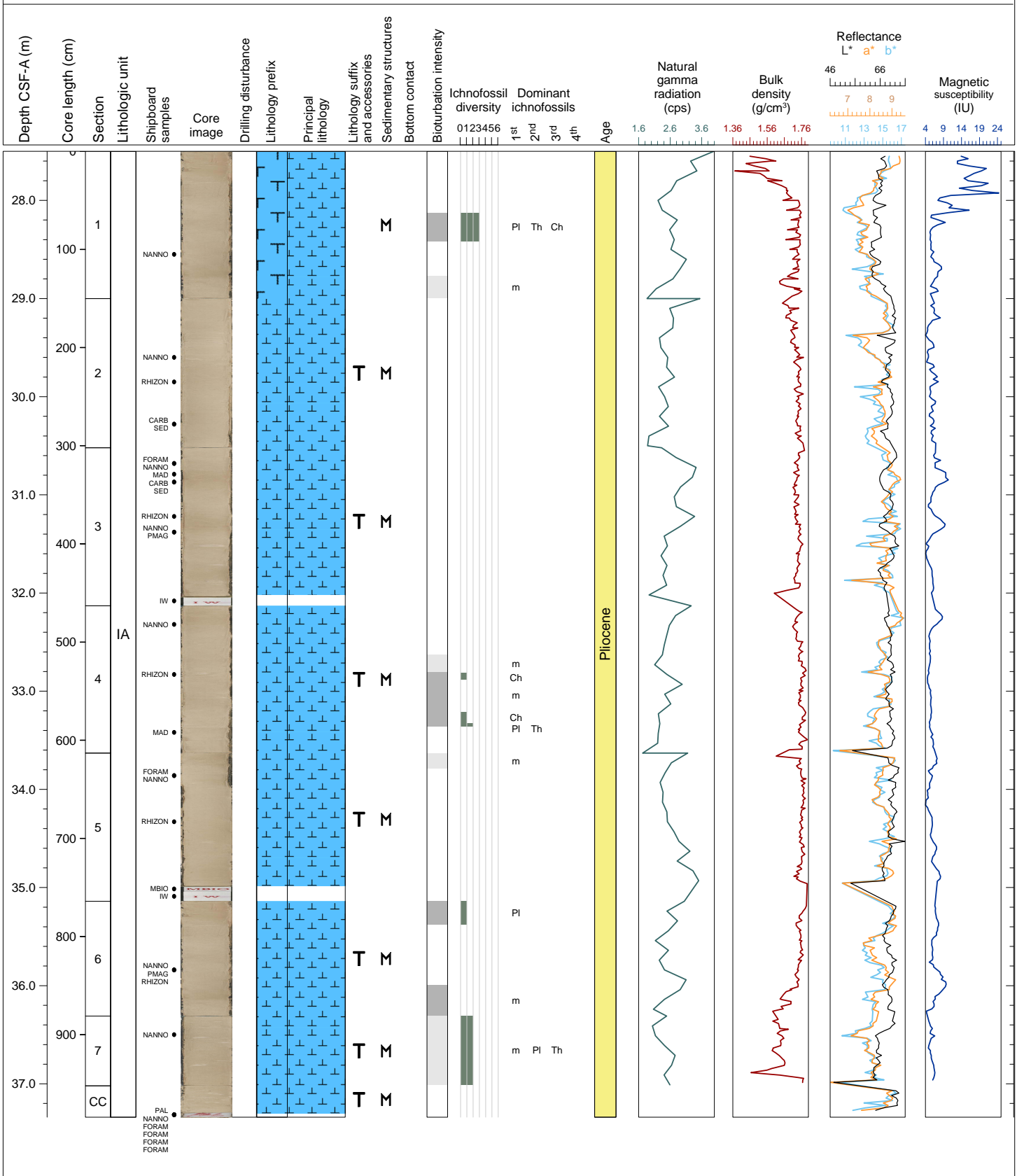
Hole 393-U1560C Core 4H, Interval 18.0-28.04 m (CSF-A)

Core U1560C-4H consists of interbedded pink (7.5YR 7/4), pinkish gray (7.5YR 7/2), to light gray (7.5YR 7/1) foraminiferal nannofossil ooze with clay and pinkish white (7.5YR 8/2) and one thin white (7.5YR 8/1) bed of nannofossil ooze with variable foraminiferal content. The lithologic contacts are predominately bioturbated to gradational with two surfaces being sharp. Massive bedding and mottling alternate at the meter-scale. Biogenic mottling typically occurs in medium to thick beds with the bioturbation intensity ranging from low to high. Distinct ichnogenera include: *Thalassinoides*, *Planolites*, *Skolithos*, and *Arenicolites*. Diversity ranges from 1 to 2 ichnogenera and the maximum diameter ranges from 5 to 10 mm. No drilling disturbances were observed.



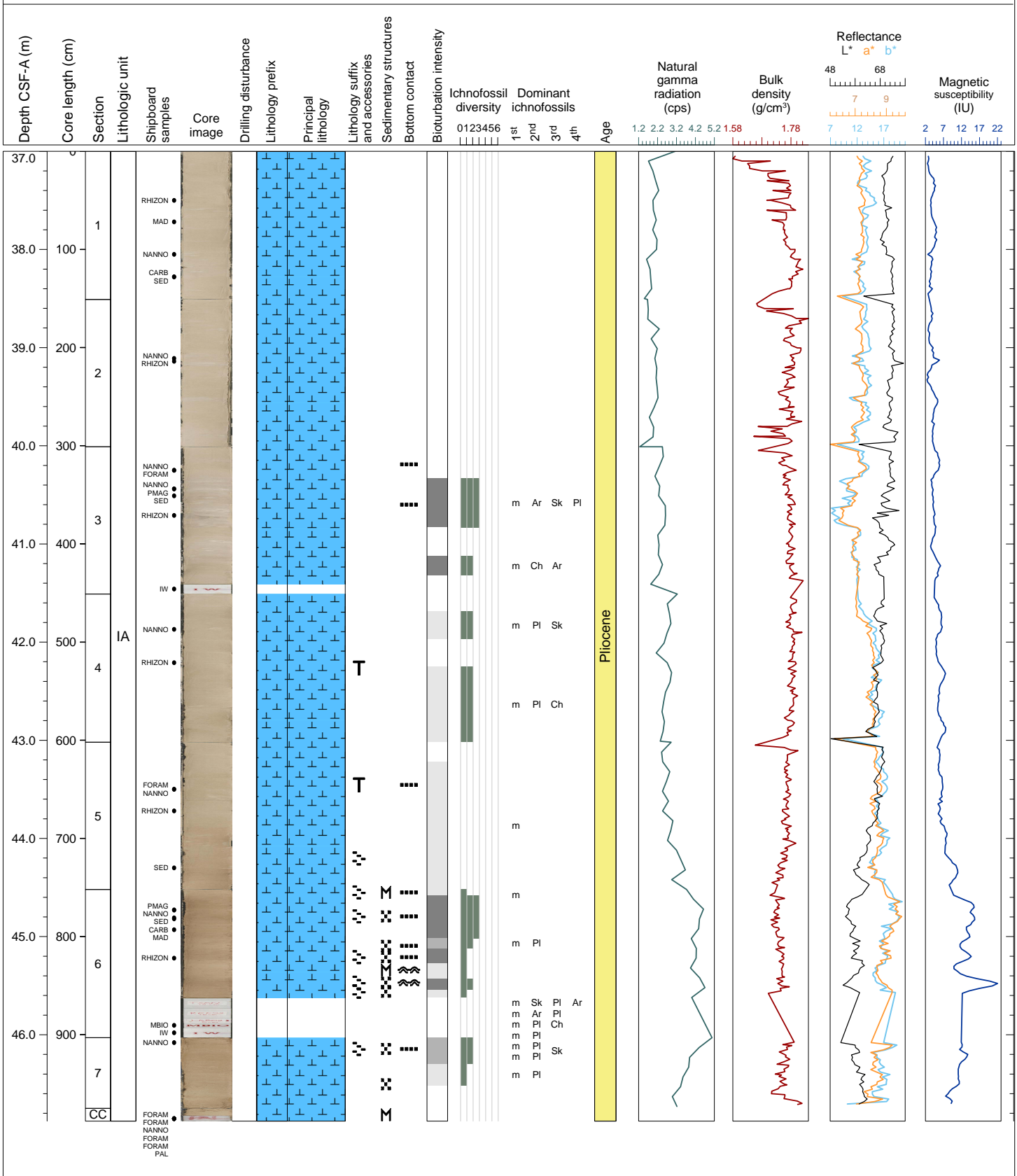
Hole 393-U1560C Core 5H, Interval 27.5-37.34 m (CSF-A)

Core U1560C-5H consists of pinkish white (7.5YR 8/2) foraminiferal nannofossil ooze in the upper 150 cm of this core with pinkish white (7.5YR 8/2) nannofossil ooze with foraminifers occurring for the remainder of the core. The bedding is massive with pinkish white 3-cm wide halos and 1-2 cm wide blebs occurring sporadically in the core starting in section 3. Biogenic mottling occurs in discrete thin to medium beds with the bioturbation intensity ranging from low to sparse. Within these beds distinct ichnogenera were observed and include: Planolites, Chondrites, and Thalassinoides. Diversity ranges from 1 to 2 ichnogenera and the maximum diameter ranges from 3 to 9 mm. No drilling disturbances were observed.



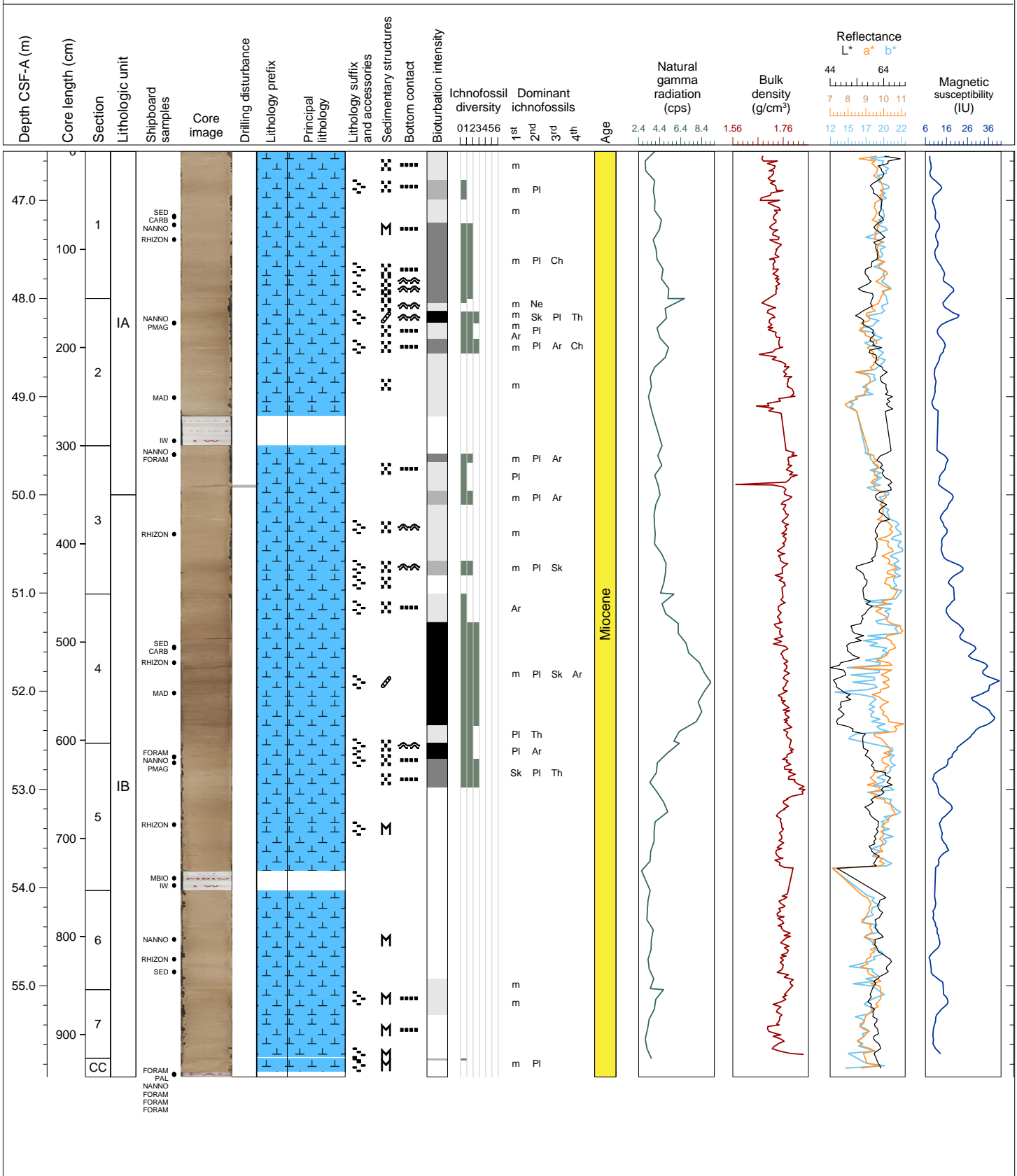
Hole 393-U1560C Core 6H, Interval 37.0-46.88 m (CSF-A)

Core U1560C-6H consists of interbedded pinkish white (7.5YR 8/2) to pink (7.5YR 7/4) nannofossil ooze and pink (7.5YR 7/4) to light brown (7.5YR 6/4) nannofossil ooze with clay. The lithologic contacts range from bioturbated to gradational. Massive bedding dominates the upper 7 meters of the core, with mottling becoming the dominant sedimentary structure in the lower 2.5 meters of the core. Small white blebs (<0.5 cm) rarely occur in this core. Biogenic mottling is absent in the upper 3.2 m of the core and occurs in medium to thick beds for the rest of the core. Within these beds, the bioturbation intensity ranges from low to moderate and discrete ichnogenera occur that include: Planolites, Condrites, Skolithos, and Arenicolites. The diversity ranges from 1 to 3 and the maximum diameter ranges from 3 to 8 mm.



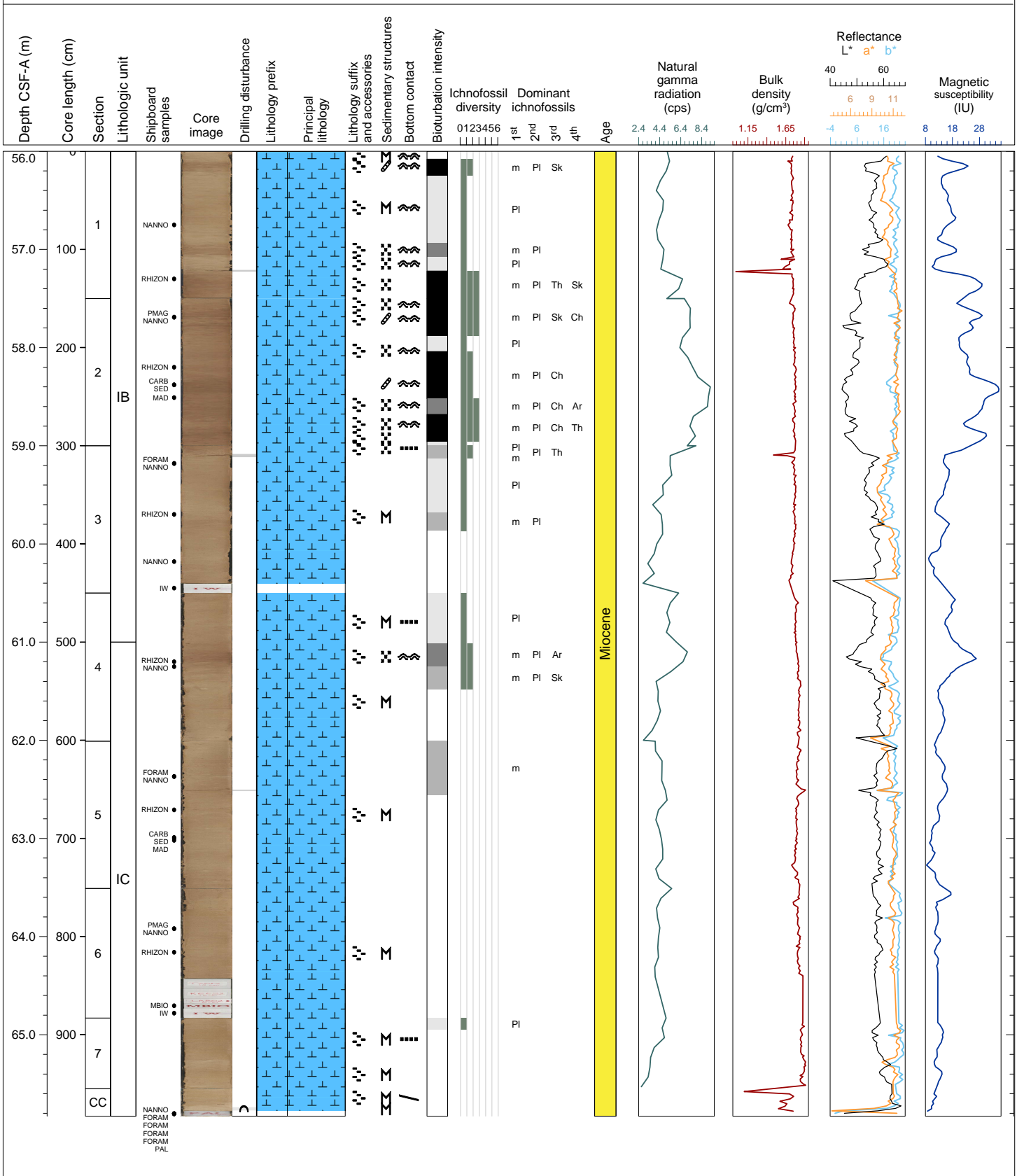
Hole 393-U1560C Core 7H, Interval 46.5-55.93 m (CSF-A)

Core U1560C-7H consists of interbedded pink (7.5YR 7/4) nannofossil ooze and pink (7.5YR 7/4) to light brown (7.5YR 6/4) to pink (7.5YR 7/4) nannofossil ooze with clay. The lithologic contacts range from bioturbated to gradational. Mottling is the dominant sedimentary structure. Biogenic mottling occurs in medium to thick beds with the bioturbation intensity ranging from low to moderate. Within these beds distinct ichnogenera occur and include: Planolites, Thalassinoides, Skolithos, Arenicolite, and Chondrites. The diversity ranges from 1 to 5 ichnogenera and the maximum diameter ranges from 2 to 22 mm.



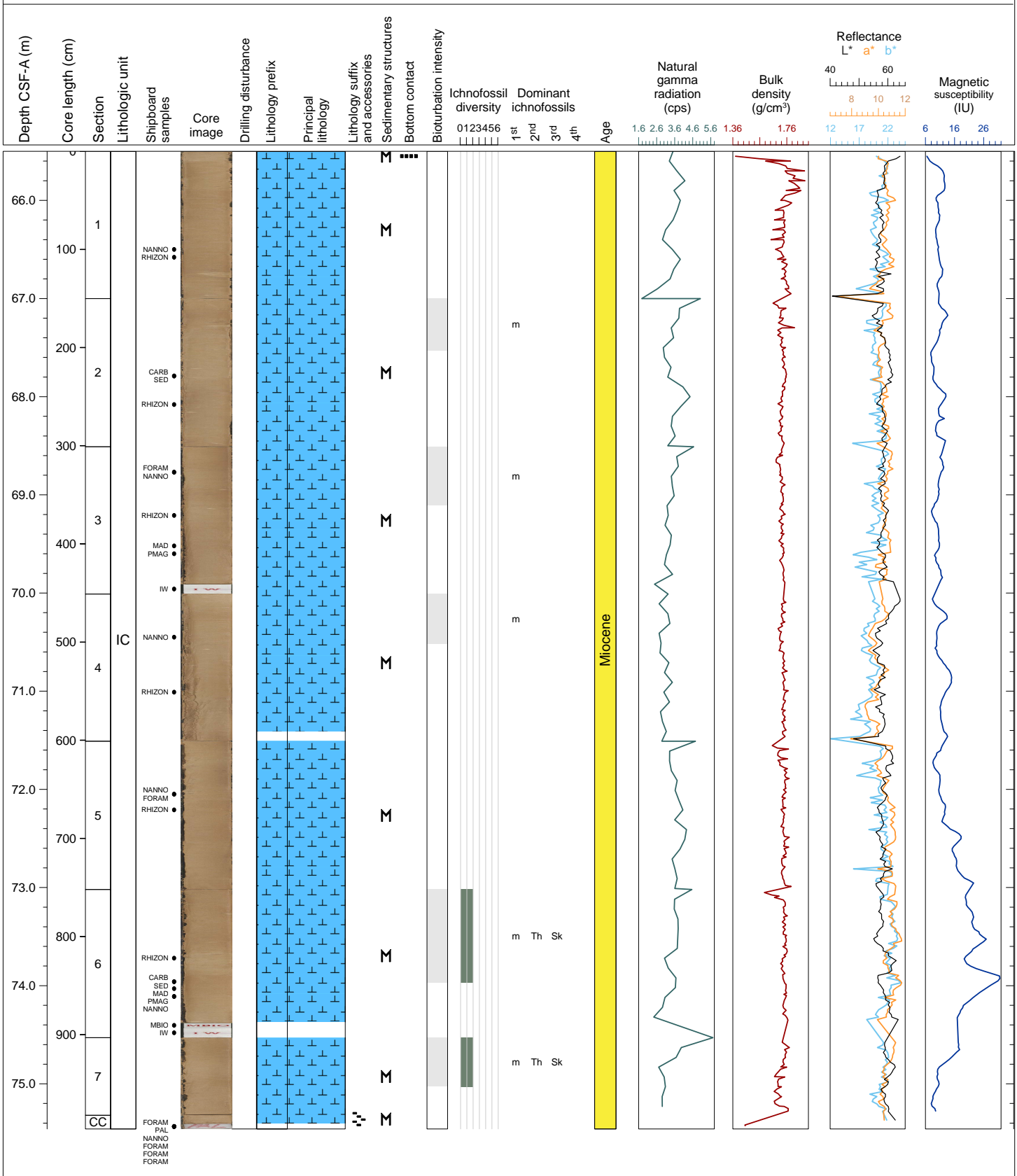
Hole 393-U1560C Core 8H, Interval 56.0-65.83 m (CSF-A)

Core U1560C-8H consists of pink (7.5YR 7/4), very pale brown (10YR 7/4), to reddish yellow (7.5YR 6/6) nannofossil ooze with clay with one medium thick bed of strong brown (7.5YR 5/6) nannofossil ooze with clay and foraminifers occurring in section 2. The lithologic contacts are predominately bioturbated with 2 contacts being gradational and a sharp contact in section CC. Biogenic mottling occurs in discrete medium to thick beds with the bioturbation intensity ranging from low to high within these beds. Distinct ichnogenera Planolites, Condrites, Thalassinoides, and Skolithos, with diversity ranging from 1 to 3 and the maximum diameter ranging from 3 to 10 mm.



Hole 393-U1560C Core 9H, Interval 65.5-75.46 m (CSF-A)

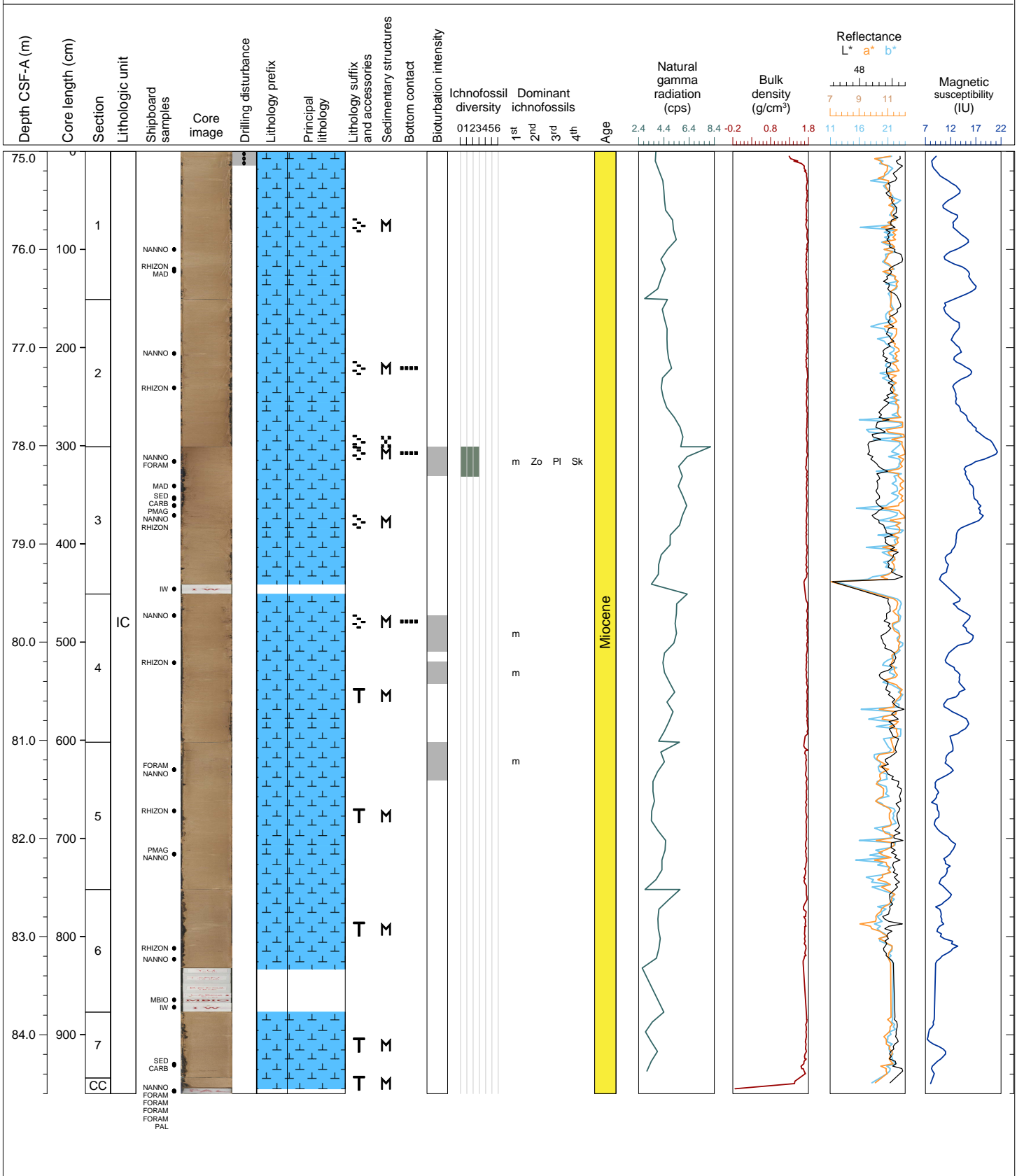
Core U1560C-9H consists of light brown (7.5YR 6/4) to pink (7.5YR 7/4) nannofossil ooze except for one thin bed of nannofossil ooze with clay at the base of the core. Only one lithologic contact was observed, which was gradational. The bedding was massive throughout the core. In addition, rare small (1-2 cm) pinkish white blebs occurred sporadically throughout the core. Biogenic mottling occurred only in five medium-thick beds that had low to sparse bioturbation intensity. Distinct ichnofossils only in in two beds in sections 6 and 7 and include *Thalassinoides* and *Skolithos*. The diversity for both beds are two and the maximum diameter ranges from 10 to 15 mm.





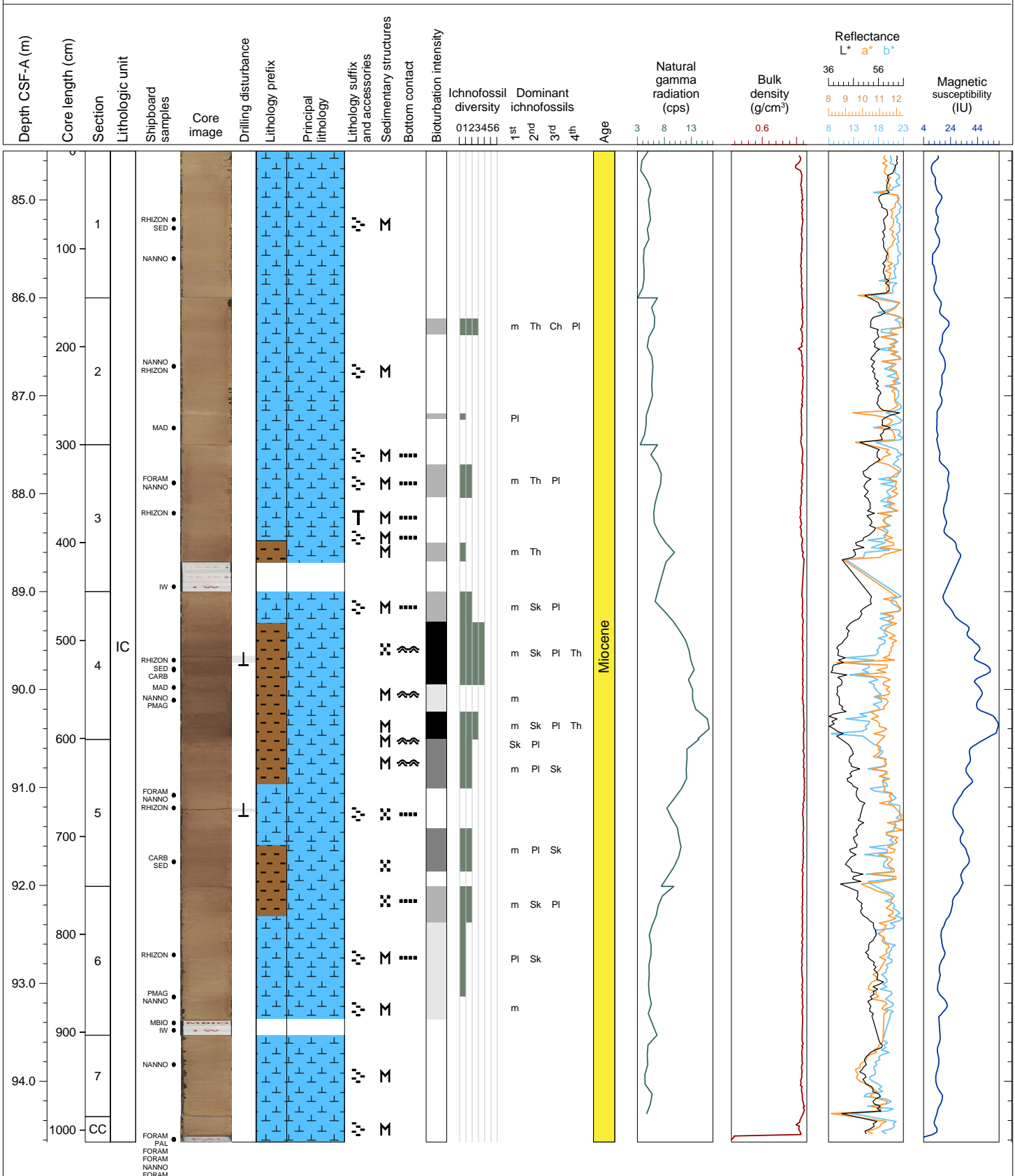
Hole 393-U1560C Core 10H, Interval 75.0-84.6 m (CSF-A)

Core U1560C-10H consists of light brown (7.5YR 6/4) to reddish yellow (7.5YR 6/6) nannofossil ooze with clay in the upper 5 m of this core followed by pink (7.5YR 7/4) nannofossil ooze with foraminifers to the bottom of the core. Lithologic contacts are gradational and massive bedding is the dominant sedimentary structure. Rare small (1-2 cm) pinkish white blebs occurred sporadically throughout this core. Biogenic mottling only occurs in four medium beds with the bioturbation intensity being low. Distinct ichnogenera only occurred in one bed in section 3 between 0 and 30 cm and included Zoophycos, Planolites, and Skolithos with the maximum diameter being 8 mm.



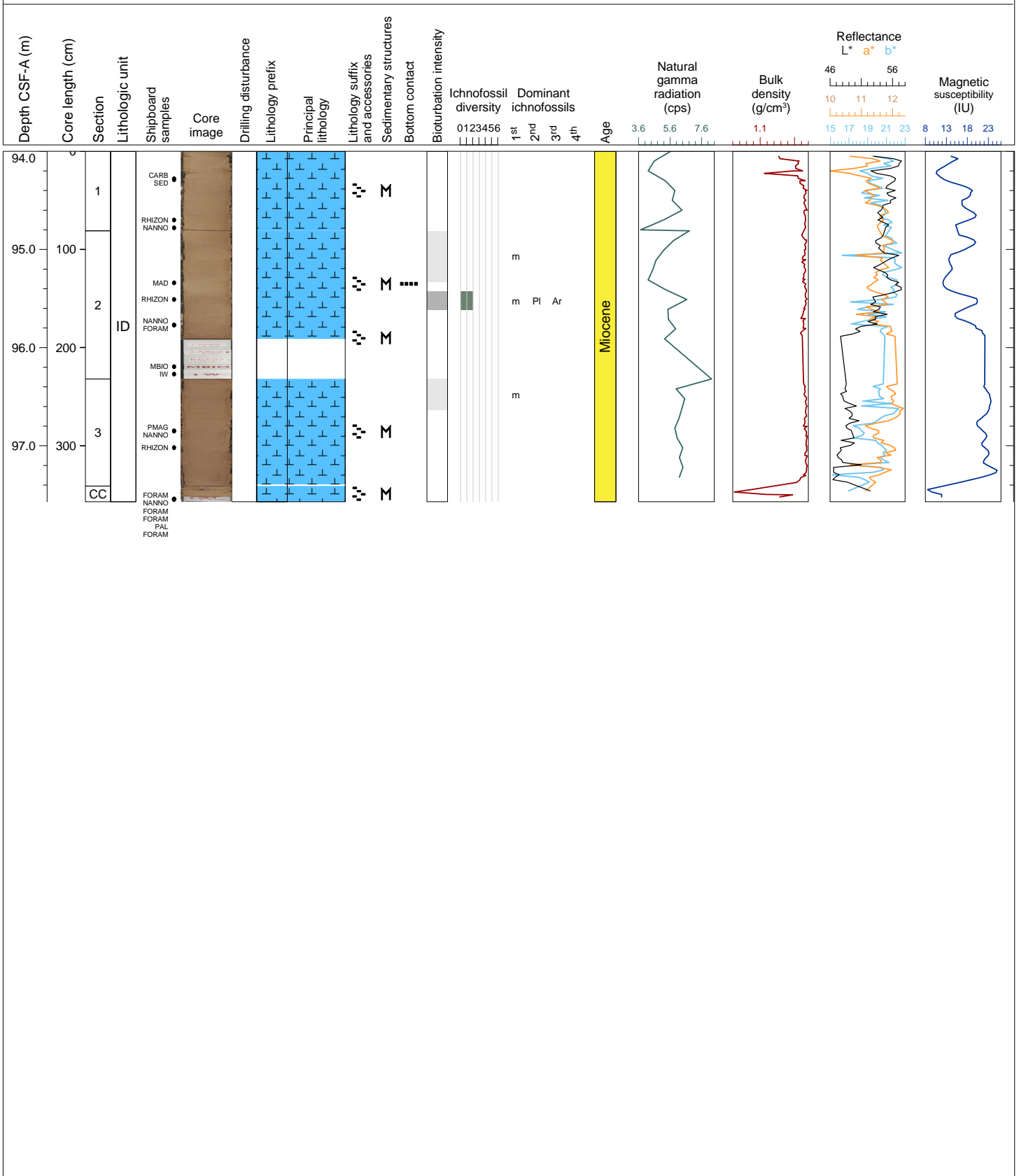
Hole 393-U1560C Core 11H, Interval 84.5-94.62 m (CSF-A)

Core U1560C-11H consists of pink (7.5YR 7/4) to light brown (7.5YR 6/4) nannofossil ooze with clay that is interbedded with brown clayey nannofossil with one medium bed of pink nannofossil ooze with foraminifers in section 3. Lithologic contacts are predominately gradational for the nannofossil ooze with clay contacts and are mainly bioturbated within the clayey nannofossil ooze contacts. Massive bedding dominates within this core with rare mottling occurring within the clayey nannofossil ooze in sections 5 and 6. Biogenic mottling occurs within discrete beds that occur at the decimeter to meter scale with the bioturbation intensity ranging from low to moderate. Distinct ichnogenera occur such as Skolithos, Planolites, Thalassinoides and Chondrites with the diversity ranging from 1 to 4 and the maximum diameter ranging from 3 to 22 mm.



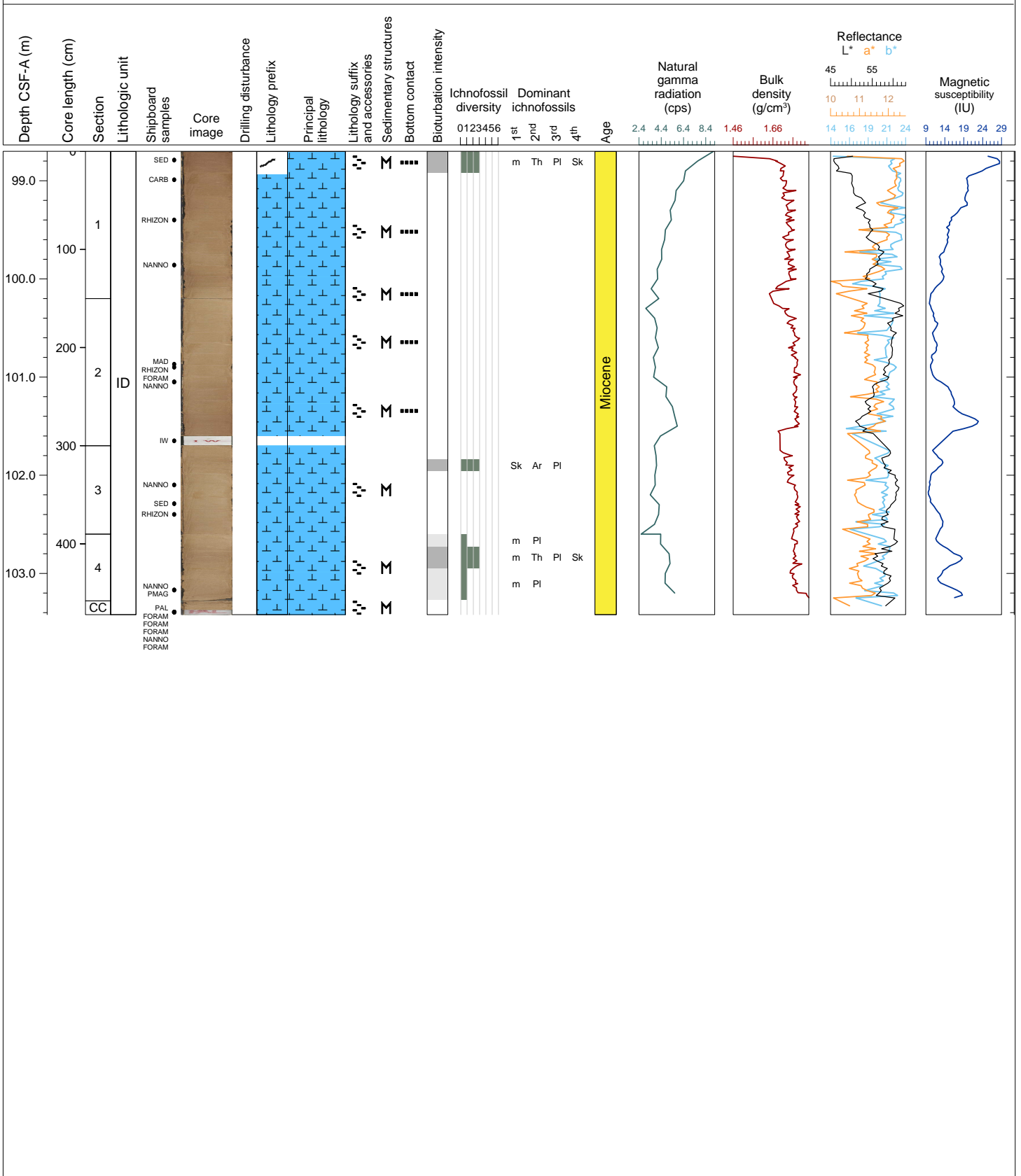
Hole 393-U1560C Core 12F, Interval 94.0-97.57 m (CSF-A)

Core U1560C-12F consists of light brown (7.5YR 6/4) to brown (7.5YR 5/4) nannofossil ooze with clay. The lithologic contacts are gradational and the bedding is massive. Biogenic mottling only occurs in three medium beds with distinct ichnogenera occurring in section 2 between 62 and 81 cm and includes Planolites and Arenicolites. The maximum diameter is 5 mm.



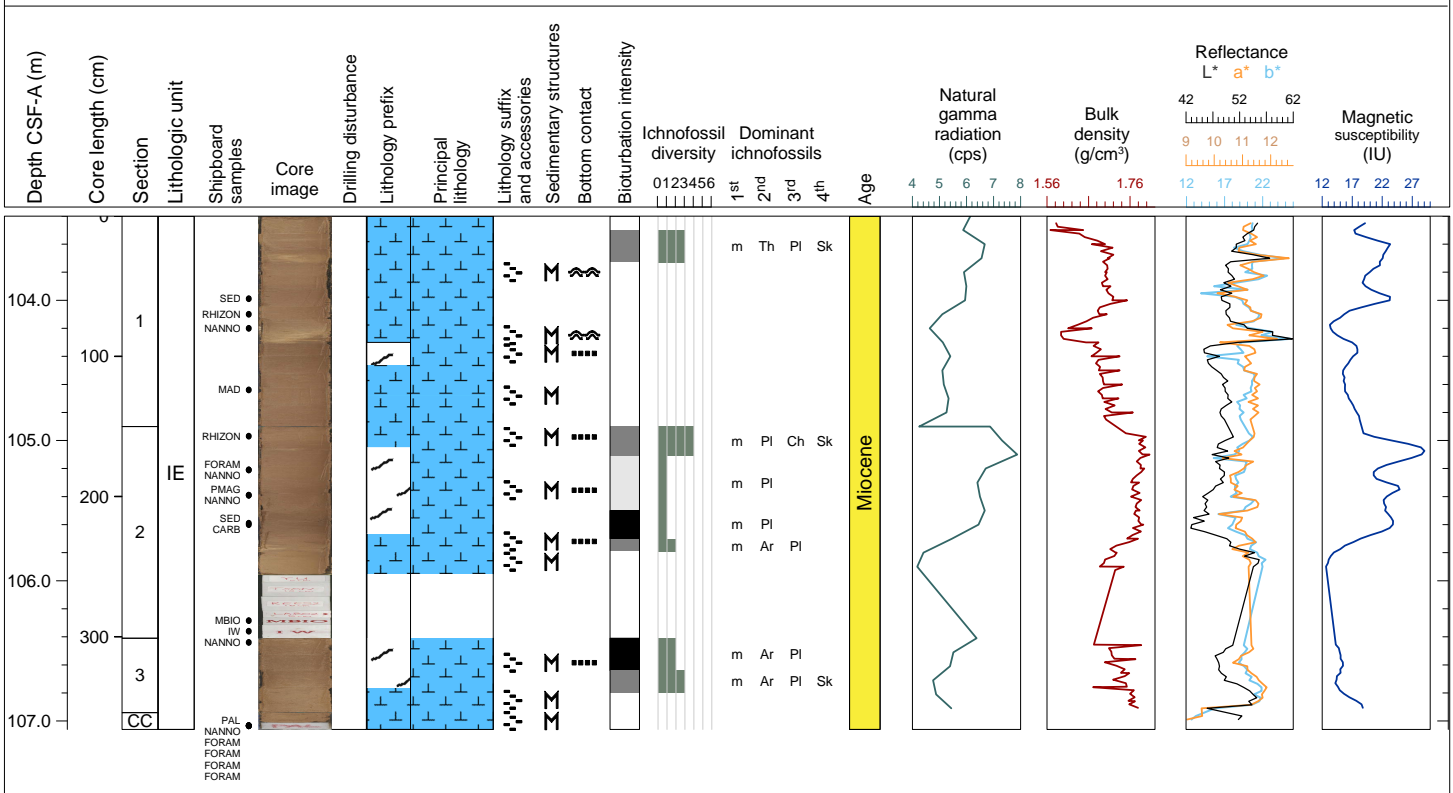
Hole 393-U1560C Core 13F, Interval 98.7-103.42 m (CSF-A)

Core U1560C-13F consists of light brown (7.5YR 6/4) to brown (7.5YR 5/4) nannofossil ooze with clay with a 23-cm thick bed of brown organic-rich nannofossil ooze with clay occurring at the top of this core. Lithologic contacts are bioturbated and the bedding is massive. Biogenic mottling only occurs in five medium thick beds with the bioturbation intensity ranging from low to sparse. Distinct ichnogenera include Planolites, Thalassinoides, Skolithos and Arenicolites with the diversity ranging from 1 to 3 and the maximum diameter ranging from 3 to 30 mm.



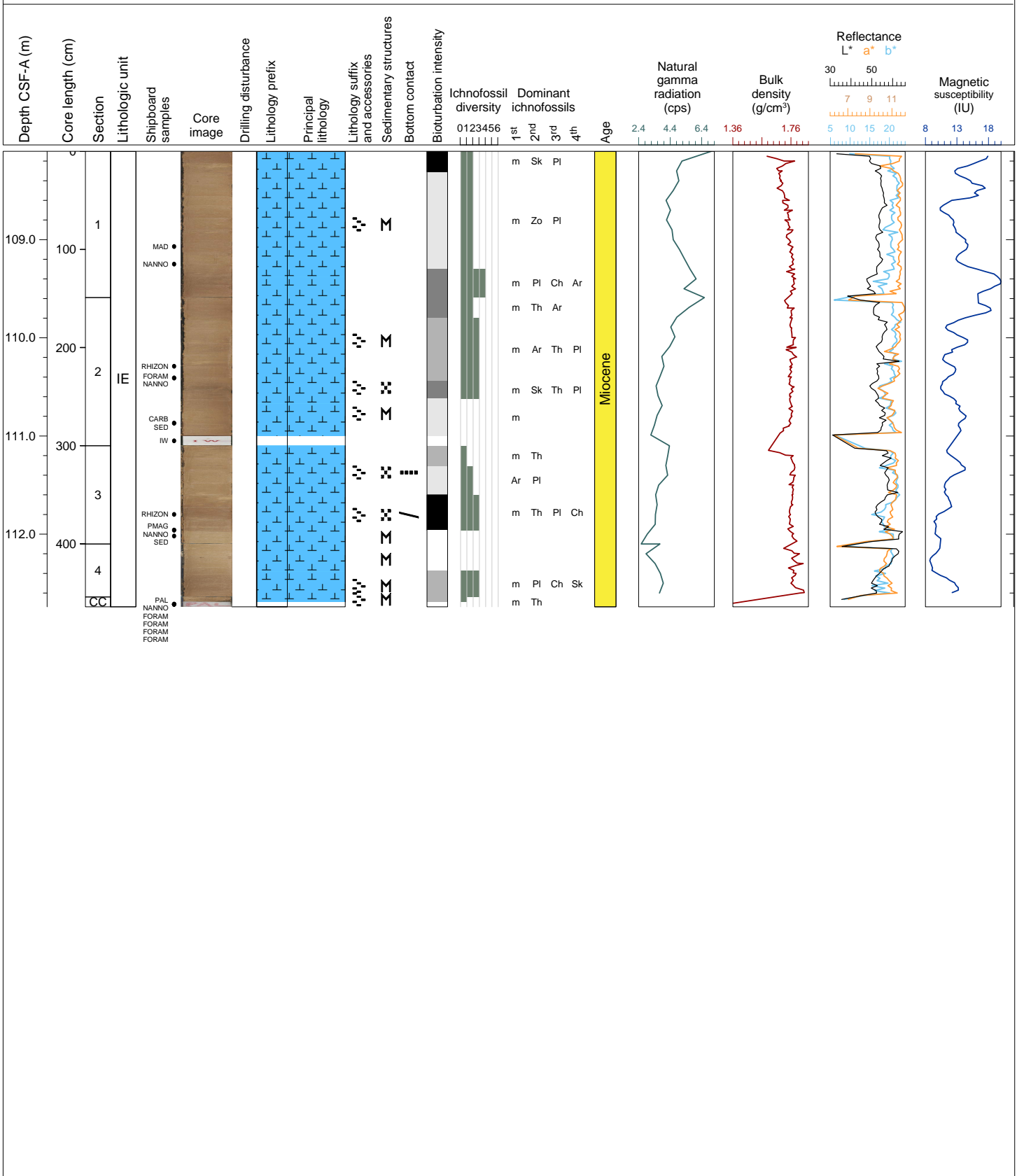
Hole 393-U1560C Core 14F, Interval 103.4-107.06 m (CSF-A)

Core U1560C-14F consists of light brown (7.5YR 6/4) to pink (7.5YR 7/4) nannofossil ooze with clay interbedded with brown(7.5YR 5/4) organic-rich nannofossil ooze with clay. Lithologic contacts are mainly gradational with the upper two contacts being bioturbated and curved. Bedding is massive with 1-4 cm wide, pinkish white blebs occurring sporadically throughout this core. Biogenic mottling occurs within discrete medium thick beds with the bioturbation intensity ranging from sparse to high. Distinct ichnogenera occur within these beds and include Planolites, Arenicolites, Skolithos and Chondrites. The diversity ranges from 1 to 4 and the maximum diameter ranges from 5 to 13 mm.



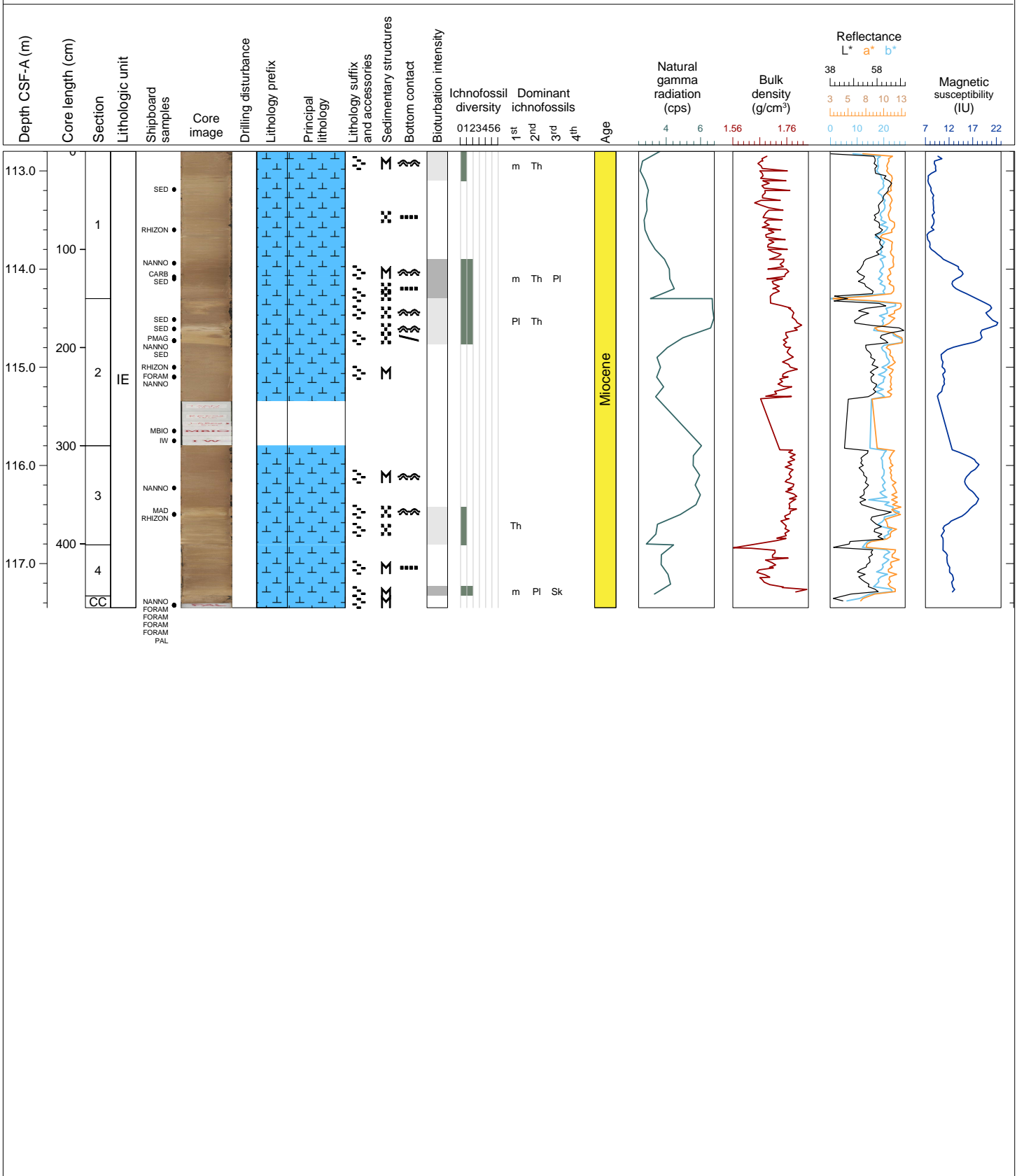
Hole 393-U1560C Core 15F, Interval 108.1-112.74 m (CSF-A)

Core U1560C-15F consists of light brown (7.5YR 6/4) to brown (7.5YR 5/4) nannofossil ooze with clay with one thick bed of pink (7.5YR 7/4) nannofossil ooze occurring within sections 3 and 4. The lithologic contacts range from gradational to sharp. Massive bedding is the dominant sedimentary structure with mottling only occurring within section 3. Biogenic mottling occurs within discrete medium thick beds with the bioturbation index ranging from sparse to high. Distinct ichnogenera include *Thalassinoides*, *Skolithos*, *Planolites*, *Arenicolites* and *Chondrites* with diversity ranging from 1 to 4 and the maximum diameter ranging from 5 to 22 mm.



Hole 393-U1560C Core 16F, Interval 112.8-117.45 m (CSF-A)

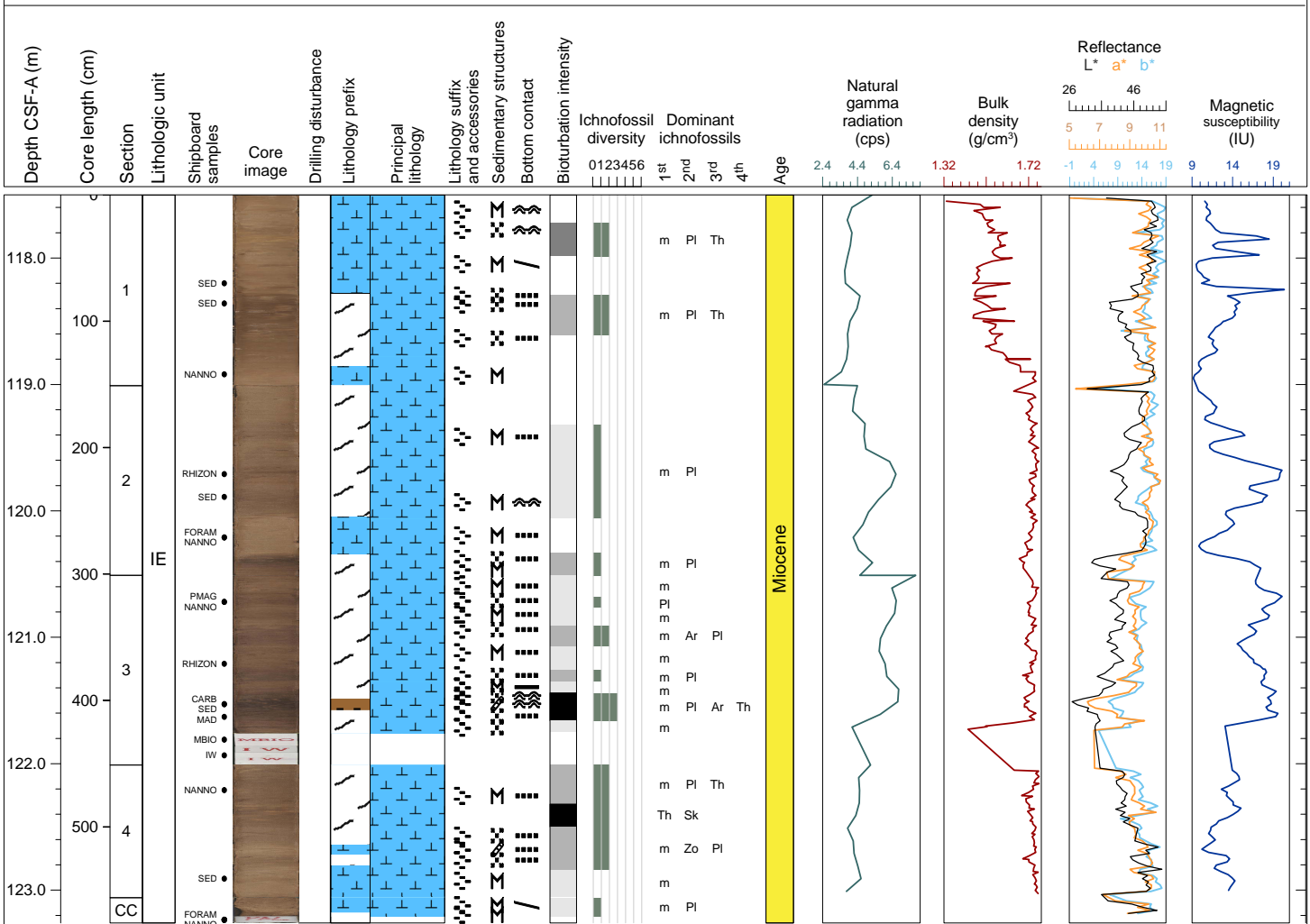
Core U1560C-16F consists of light brown (7.5YR 6/4), pink (7.5YR 7/4), to reddish yellow (7.5YR 7/6) nannofossil ooze with clay that is interbedded with pink (7.5YR 7/4) to white (7.5YR 8/1) nannofossil ooze in sections 1 and 2. Lithologic contacts are gradational to bioturbated with the lower boundary of the reddish yellow nannofossil ooze with clay being sharp. Mottling is the dominant sedimentary structure. Biogenic mottling occurs throughout this core in discrete medium to thick beds with the bioturbation index ranging from sparse to high. Distinct ichnogenera include *Thalassinoides*, *Planolites*, and *Skolithos* with diversity ranging from 1 to 2 and the maximum diameter ranging from 3 to 13 mm.





Hole 393-U1560C Core 17X, Interval 117.5-123.26 m (CSF-A)

Core U1560C-17F consists of brown (7.5YR 5/4-4/4), dark brown (7.5YR 3/4) to very dark brown (7.5YR 2.5/2) organic-rich nannofossil ooze with clay, which is occasionally interbedded with light brown (7.5YR 6/4) nannofossil ooze with clay. Lithologic contacts are predominately gradational, with some of the very dark brown organic-rich nannofossil ooze lower contacts being bioturbated. Sedimentary structures are interbedded between massive bedding and mottling. Biogenic mottling occurs in medium thick beds throughout the core with the bioturbation intensity ranging from low to intense. Distinct ichnogenera include Planolites, Skolithos, Arenicolites, Thalassinoides, and Zoophycos. The diversity ranges from 1 to 2 and the maximum diameter ranges from 3 to 12 mm.



Hole 393-U1560C Core 18X, Interval 127.2-127.63 m (CSF-A)

Core U1560C-18X consists of brown organic-rich nannofossil ooze with clay. The lithologic contacts are gradational with mottling dominating in the upper 5 cm and massive bedding in the lower part of the core. Biogenic mottling is only seen in the upper 5 cm of this core with Planolites and Chondrites being identified. The maximum diameter was 2 mm.

