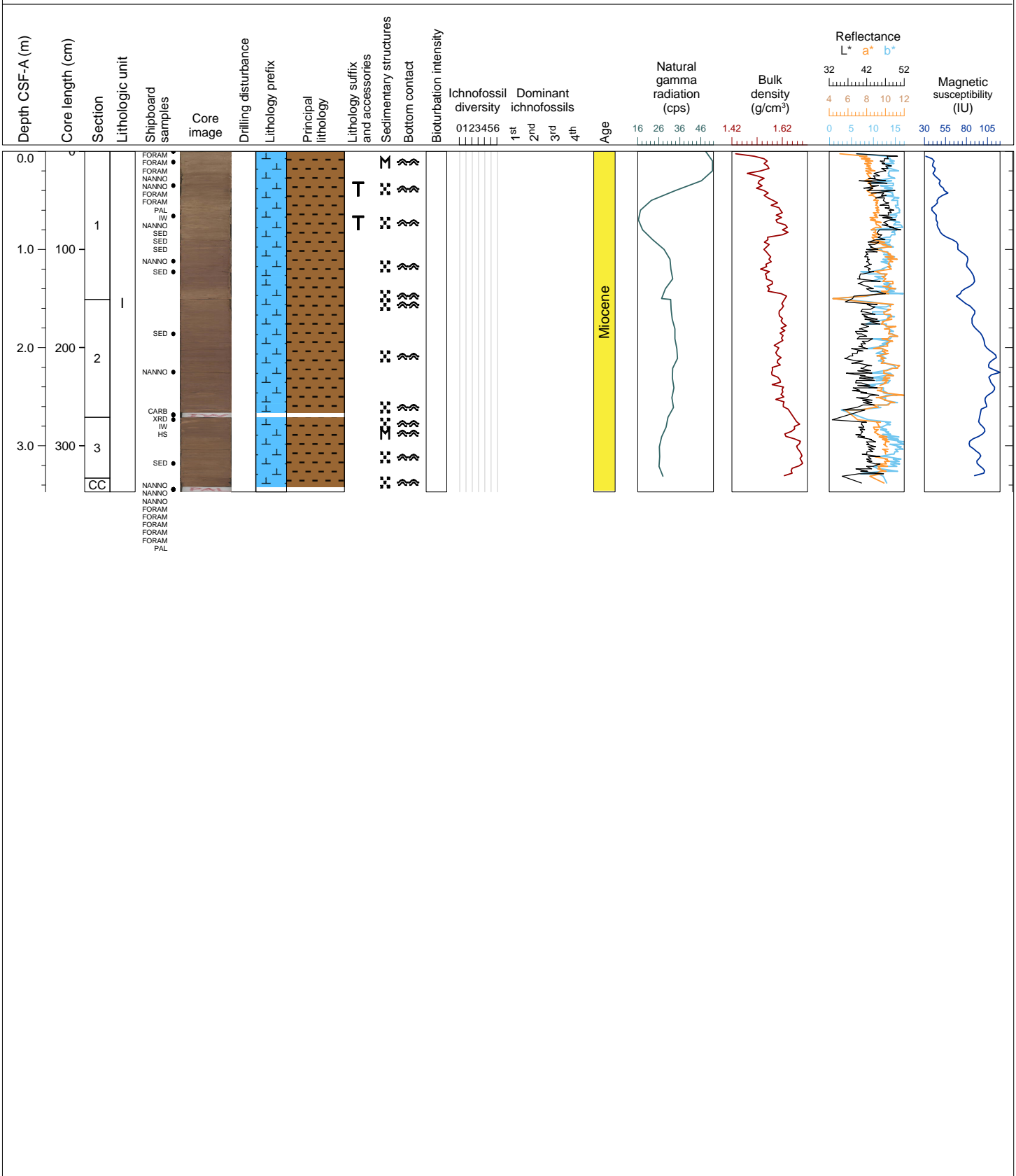


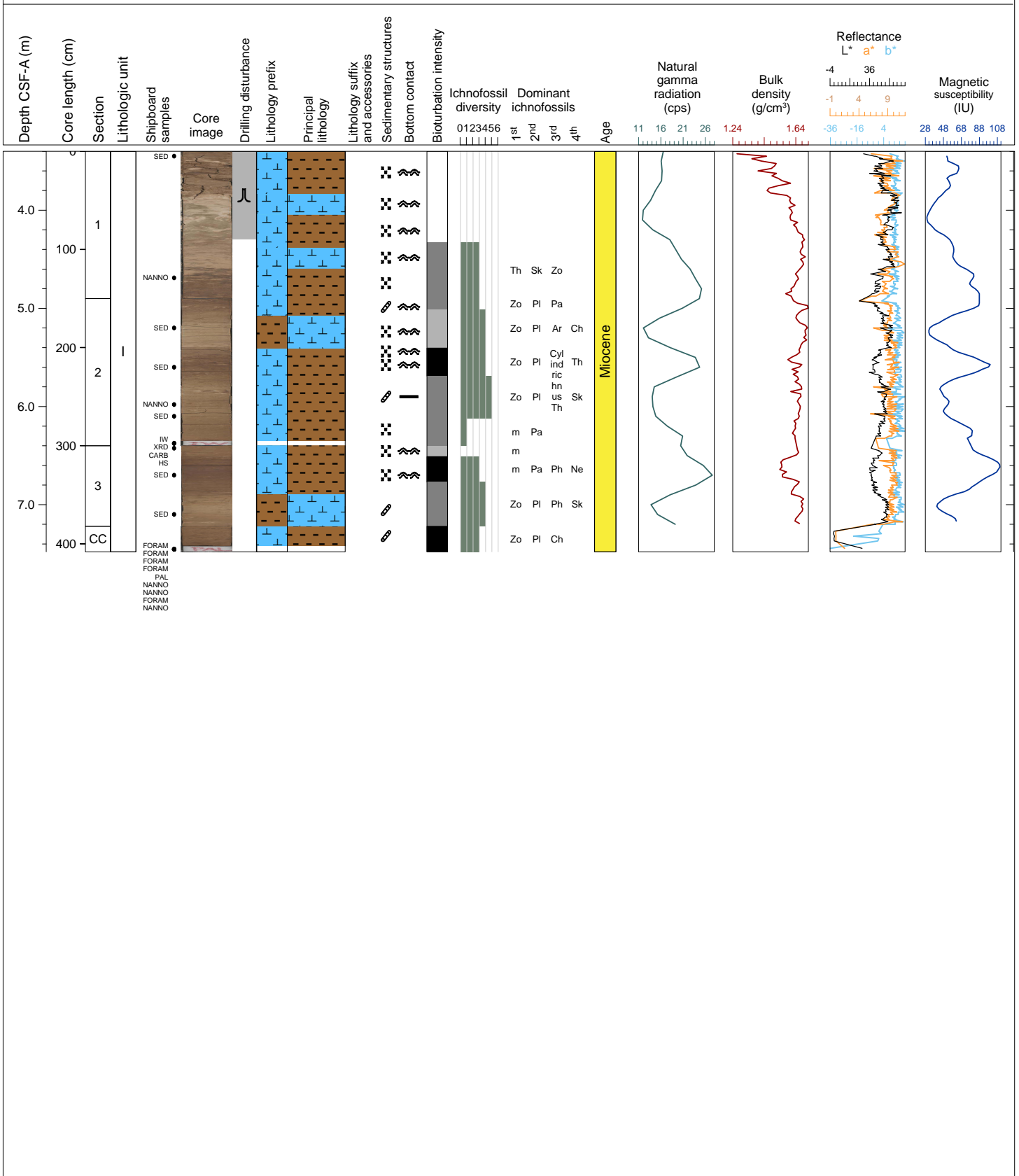
Hole 390C-U1558A Core 1H, Interval 0.0-3.47 m (CSF-A)

Core U1558A-1H contains mainly nannofossil-rich clay



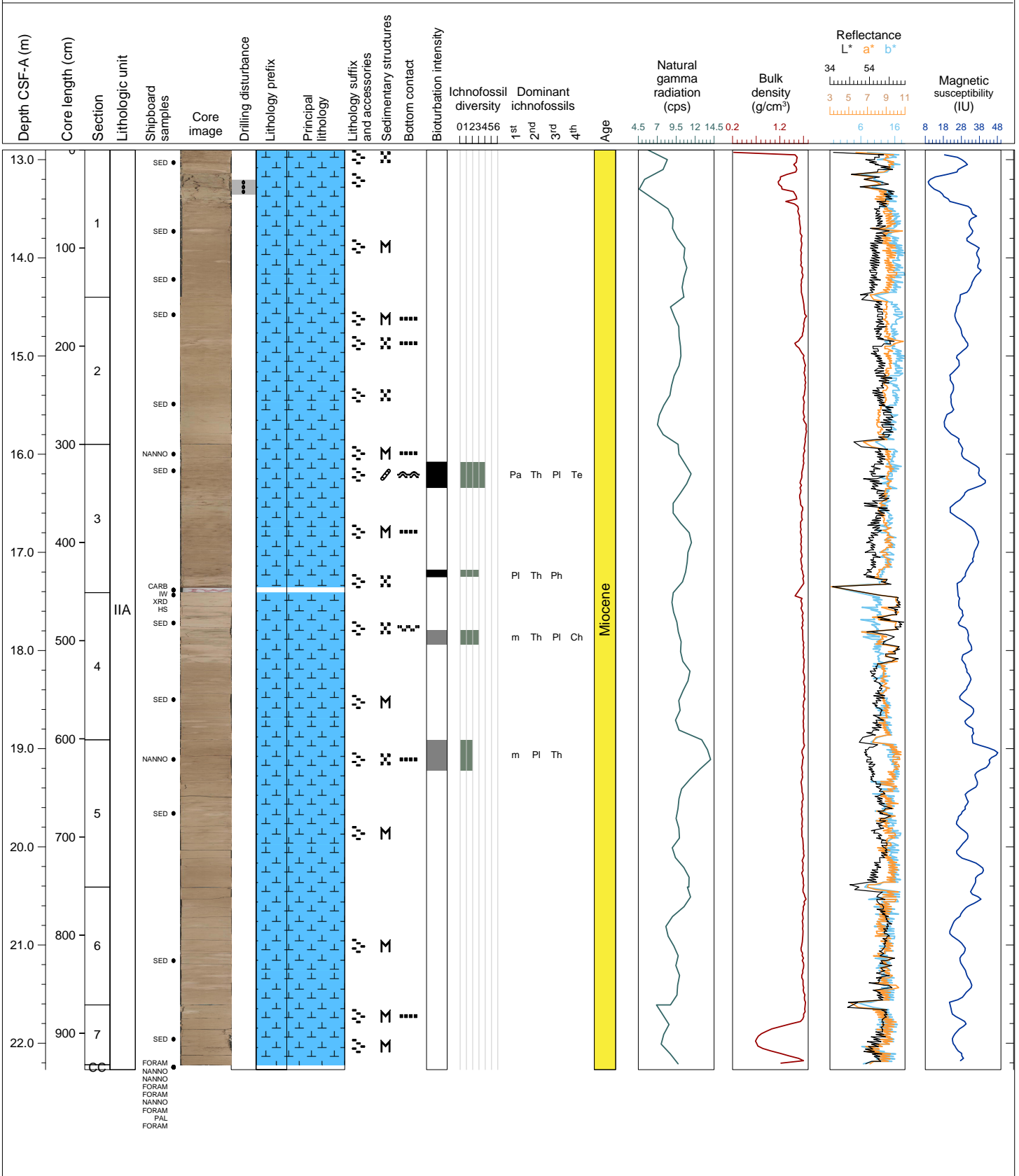
Hole 390C-U1558A Core 2H, Interval 3.4-7.48 m (CSF-A)

Core U1558A-2H contains mainly nannofossil-rich clay and clayey nannofossil ooze varying in with color ranging from pink (7.5YR 7/4) to brown (7.5YR 5/4). Mottling is present throughout the core. Ichnofossils occur sporadically throughout the core, with Zoophycos, Planolites, Skolithos, Arenicolites, and Thanassinoides being identified. Basal flow-in is observed in the first section between 0 and 90 cm.



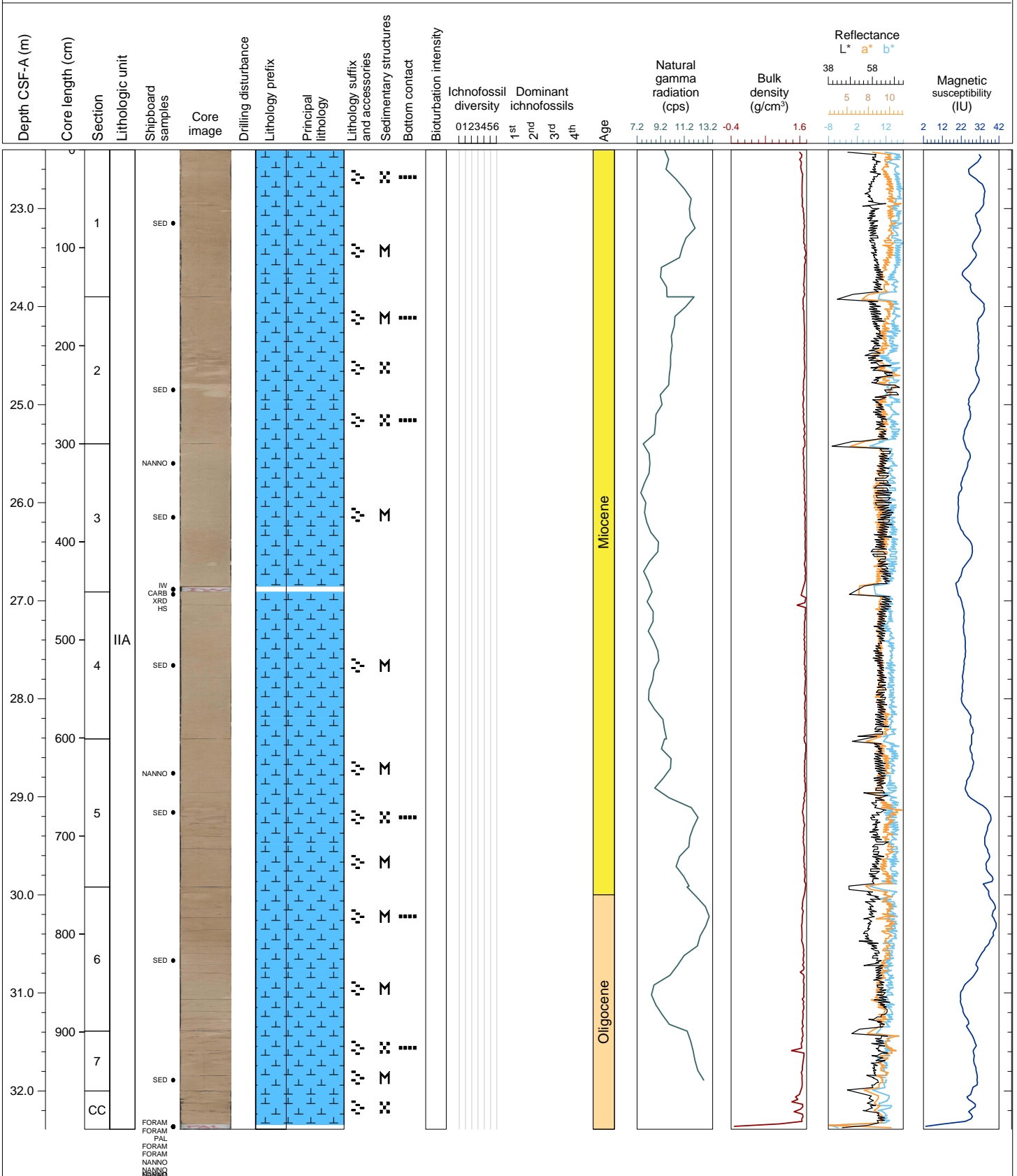
Hole 390C-U1558A Core 3H, Interval 12.9-22.27 m (CSF-A)

Core U1558A-3H contains mainly whitish pink (7.5YR 8/2) nannofossil ooze with clay. In addition, several beds of slightly darker sediments (light brown, 7.5YR 6/4) occur. Foraminifers were rare (<10%). The bedding is massive and mottling is present throughout the core. Trace fossils were identified in section 3 between 18 and 44 cm (Planolites and Teichichnus) and in section 5 between 66 and 104 cm (Planolites and Thalassinoides). Severely soupy drilling disturbances occur in section 1 between 30 and 46 cm.



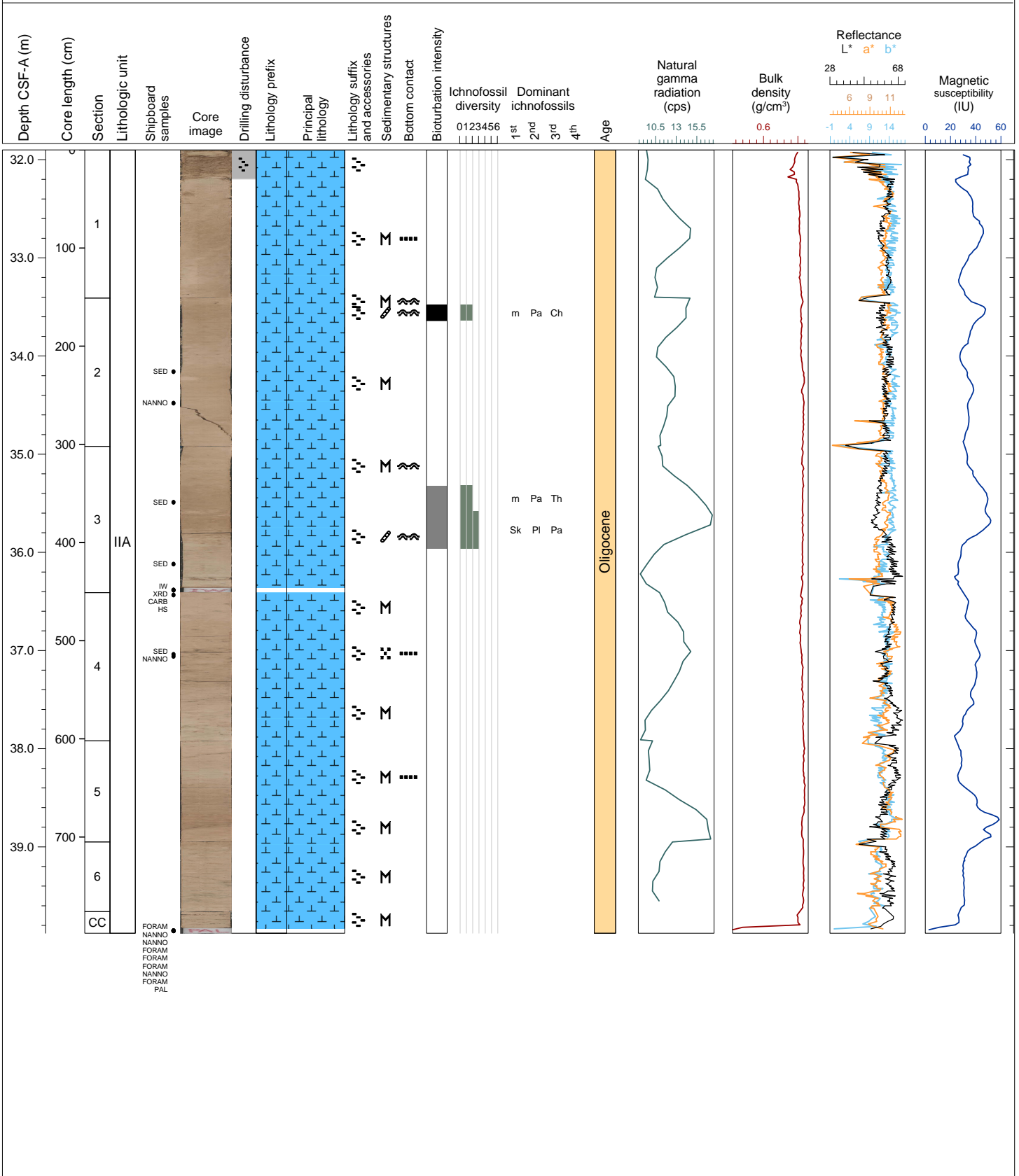
Hole 390C-U1558A Core 4H, Interval 22.4-32.39 m (CSF-A)

Core U1558A-4H contains mainly pink (7.5YR 7/3-7/2) nannofossil ooze with several beds of slightly lighter sediments (pinkish white, 7.5YR 8/2). Foraminifers were observed in minor amounts. The bedding is massive and mottling is present throughout the core. Pinkish halos and blebs were observed especially in the lower part of this core.



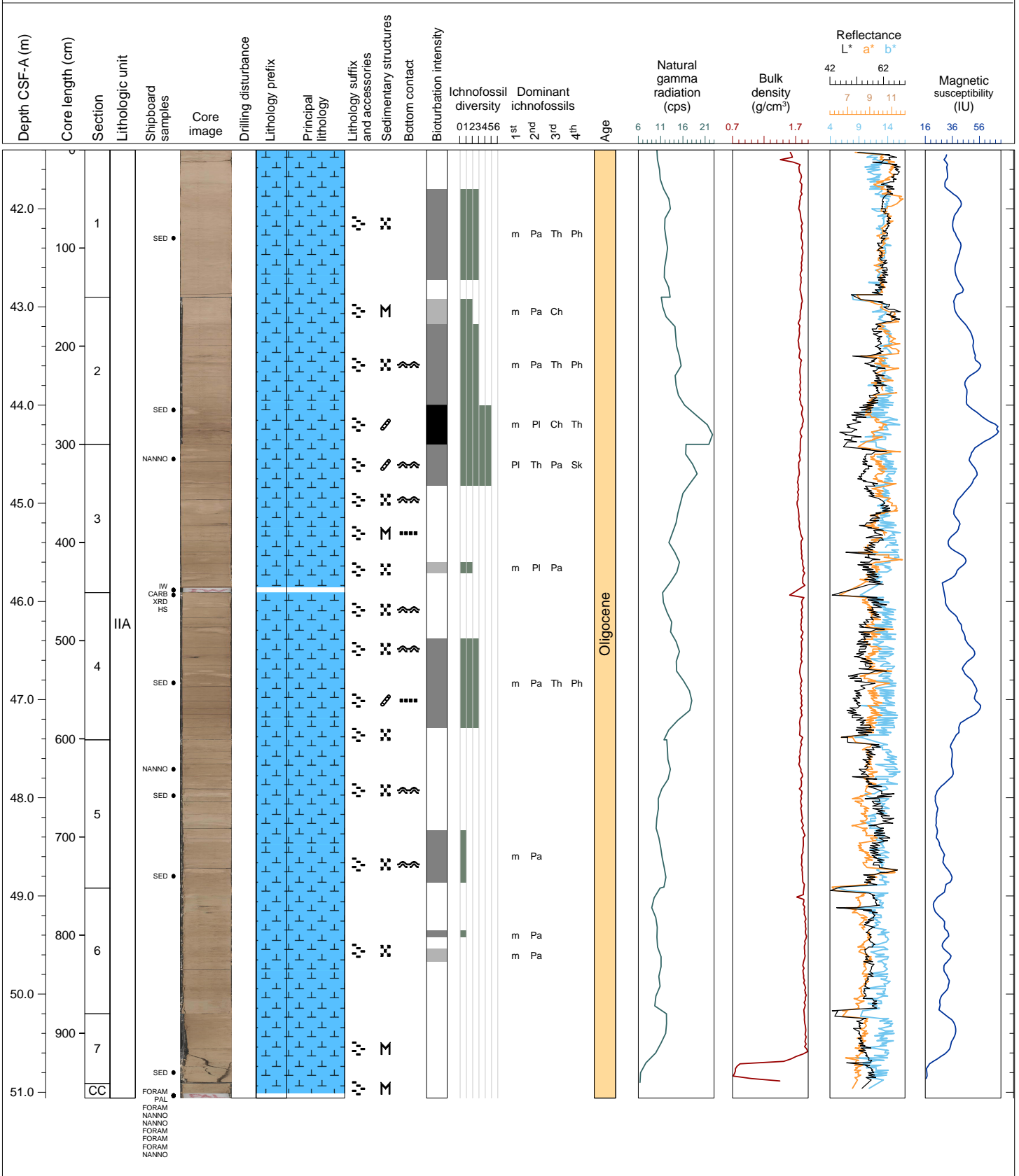
Hole 390C-U1558A Core 5H, Interval 31.9-39.88 m (CSF-A)

Core U1558A-5H contains alternating mainly pink (7.5YR 7/3-7/2) and whitish pink (7.5YR 8/2) nannofossil ooze with clay with several beds of slightly darker sediments (light brown, 7.5YR 6/4). Foraminifers were observed in minor amounts. The bedding is massive and mottling is present throughout the core. Trace fossils were identified in sections 2 and 3 and include Planolites, Chondrites, and Thalassinoides. Pinkish halos and blebs were observed especially in the lower part of this core. Severe slurry core disturbances were observed in the first section between 0 and 30 cm.



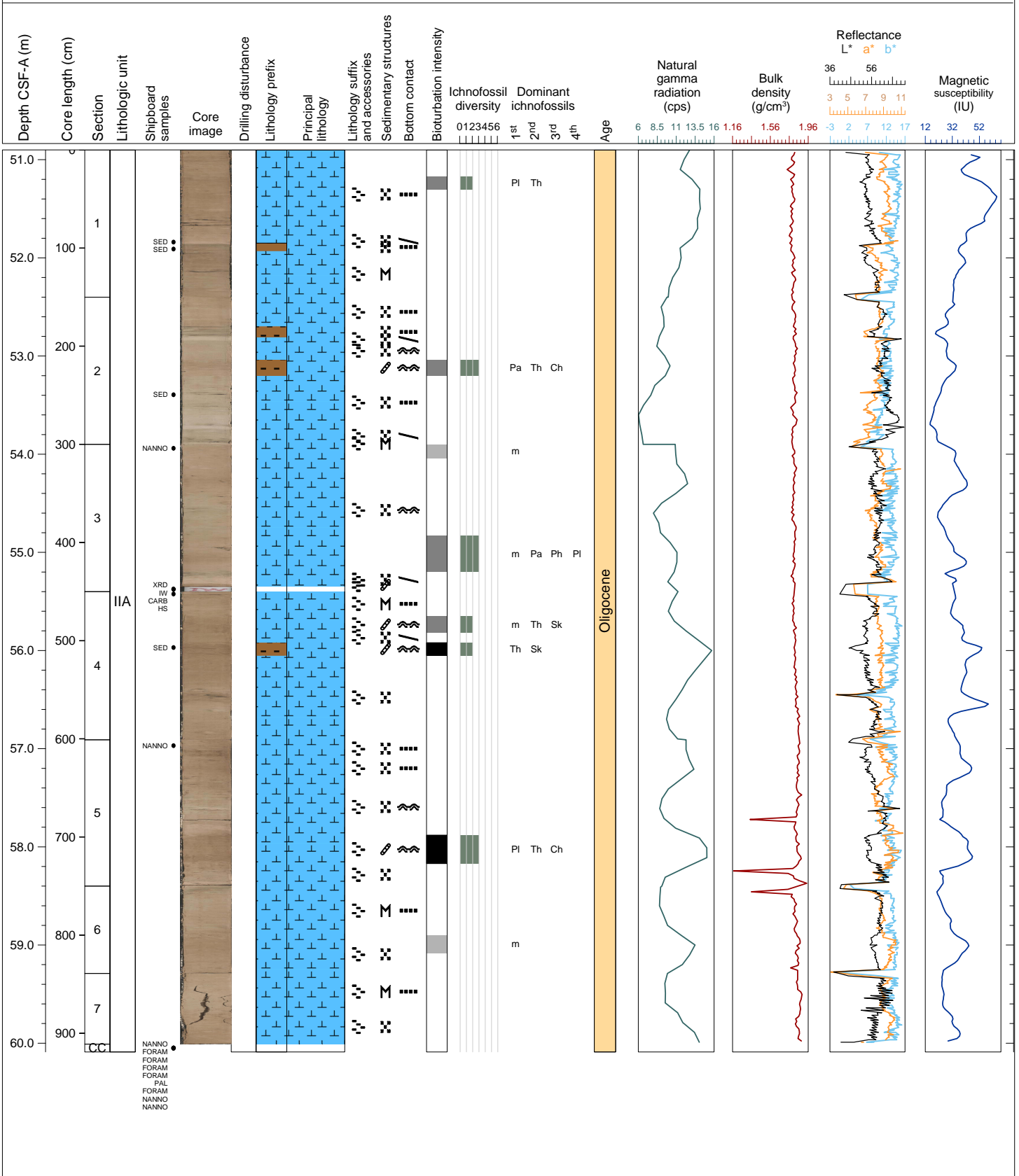
Hole 390C-U1558A Core 6H, Interval 41.4-51.06 m (CSF-A)

Core U1558A-6H contains alternating mainly pink (7.5YR 7/3)/ pinkish gray (7.5YR 7/2) and light reddish brown (7.5YR 6/3 & 6/4) nannofossil ooze with clay. The bedding is massive and mottling is present throughout the core. Trace fossils were identified in sections 1-5 consisting of Planolites, Chondrites, Zoophycus, and Skolithos. No core disturbances were observed.



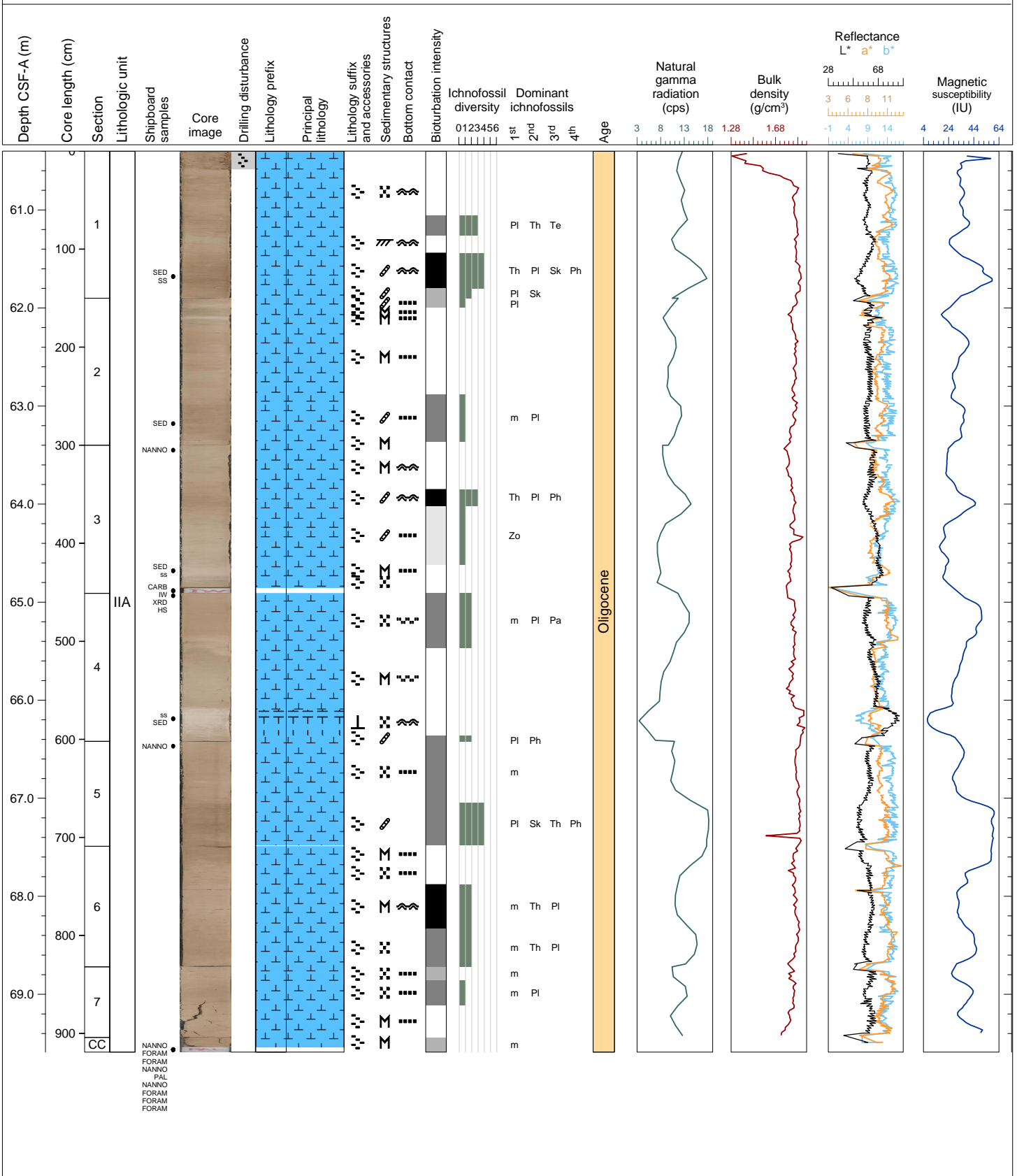
Hole 390C-U1558A Core 7H, Interval 50.9-60.09 m (CSF-A)

Core U1558A-7H contains alternating mainly pink (7.5YR 7/3) and light reddish brown (7.5YR 6/4) nannofossil ooze with clay. A few thin beds of light reddish brown (5YR 6/4) clayey nannofossil ooze occur in sections 1, 2, and 4. The bedding is massive and mottling is present throughout the core. Bioturbation was identified throughout the core and consisted of Planolites, Thalassinoides, Chondrites, Zoophycos, and Skolithos. Dark grayish blebs rarely occur in the section 1 through 3. No core disturbances were observed.



Hole 390C-U1558A Core 8H, Interval 60.4-69.59 m (CSF-A)

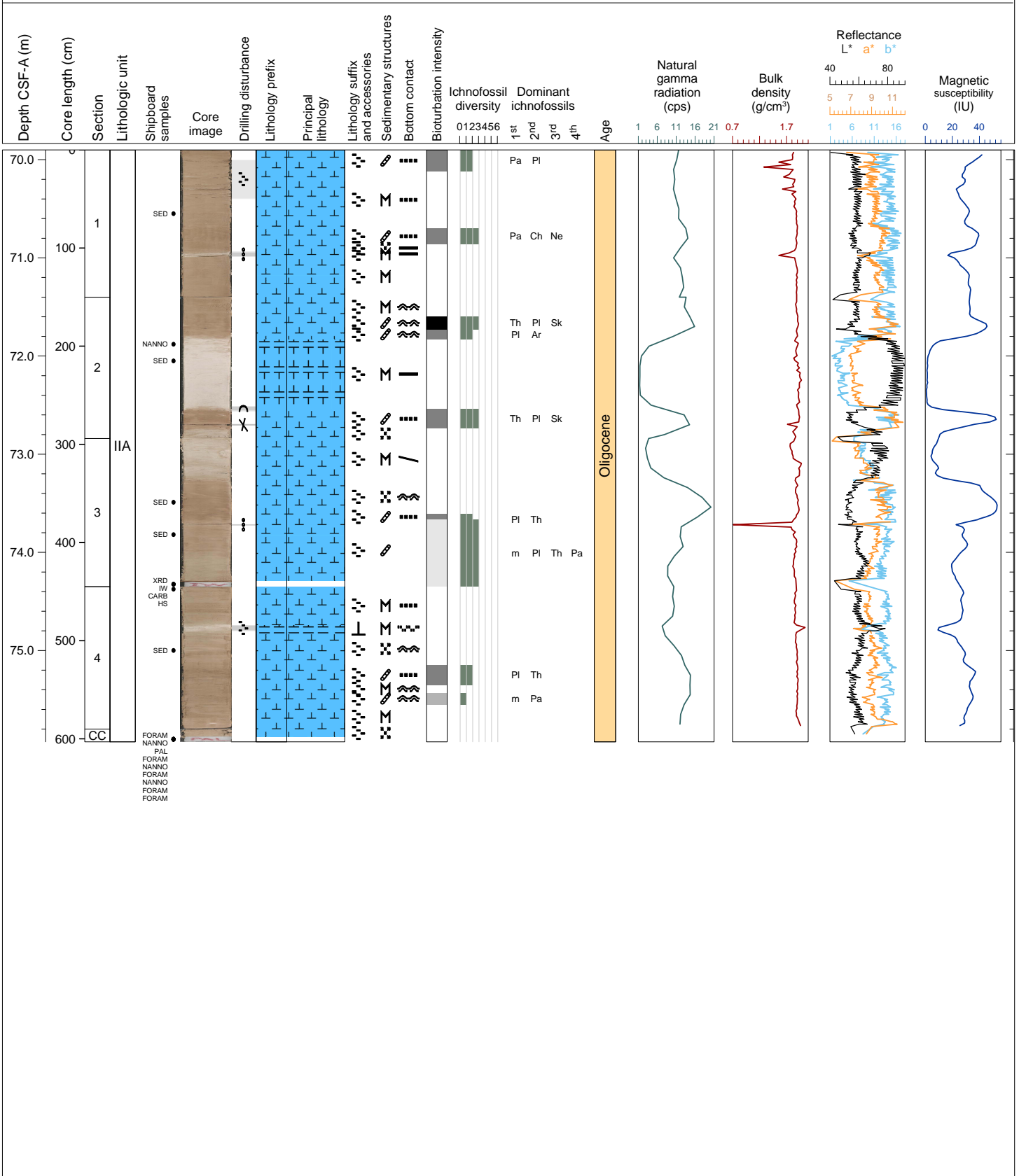
Core U1558A-8H contains alternating pink (7.5YR 8/3 and 7/3) and light reddish brown (7.5YR 6/3) nannofossil ooze with clay. The bedding is massive and mottling is present throughout the core. Trace fossils were identified throughout the core consisting of biogenic mottling, Planolites, Thalassinoides, Chondrites, Zoophycos, and Skolithos. Between 0 and 18 cm in the first section, moderately disturbed slurry sediments were observed. No core disturbances were observed.





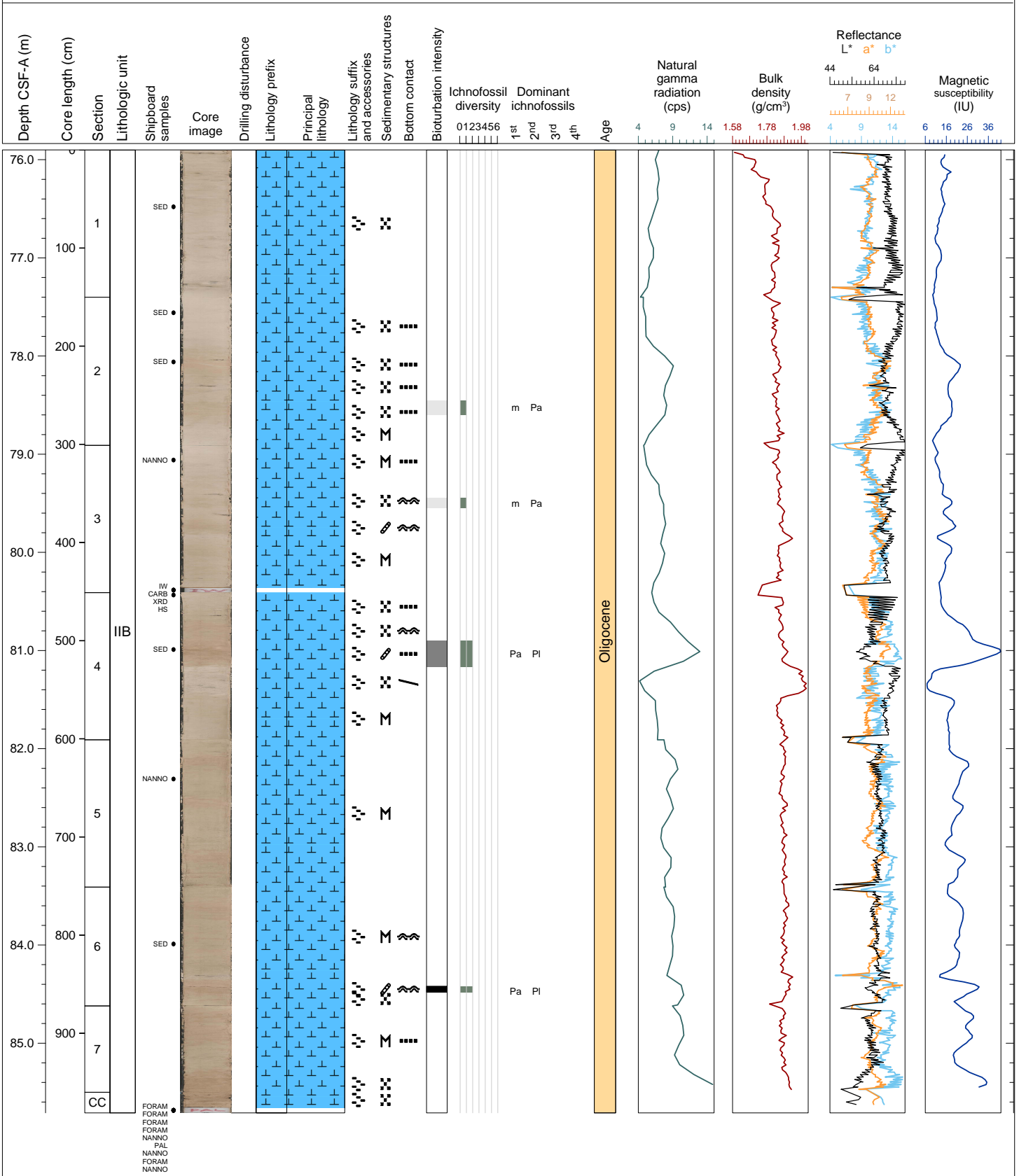
Hole 390C-U1558A Core 9H, Interval 69.9-75.93 m (CSF-A)

Core U1558A-9H contains nannofossil ooze with clay that alternates in color from whitish pink (5YR 8/2), pink (5YR 7/3) to light reddish brown (5YR 6/4) as distinct color banding. The bedding is massive and mottling is present throughout the core. Trace fossils were identified throughout the core and consisted of mainly of biogenic mottling with Chondrites, Zoophycus, and Skolithos occurring in section 2 between 115 and 133 cm. No core disturbances were observed.



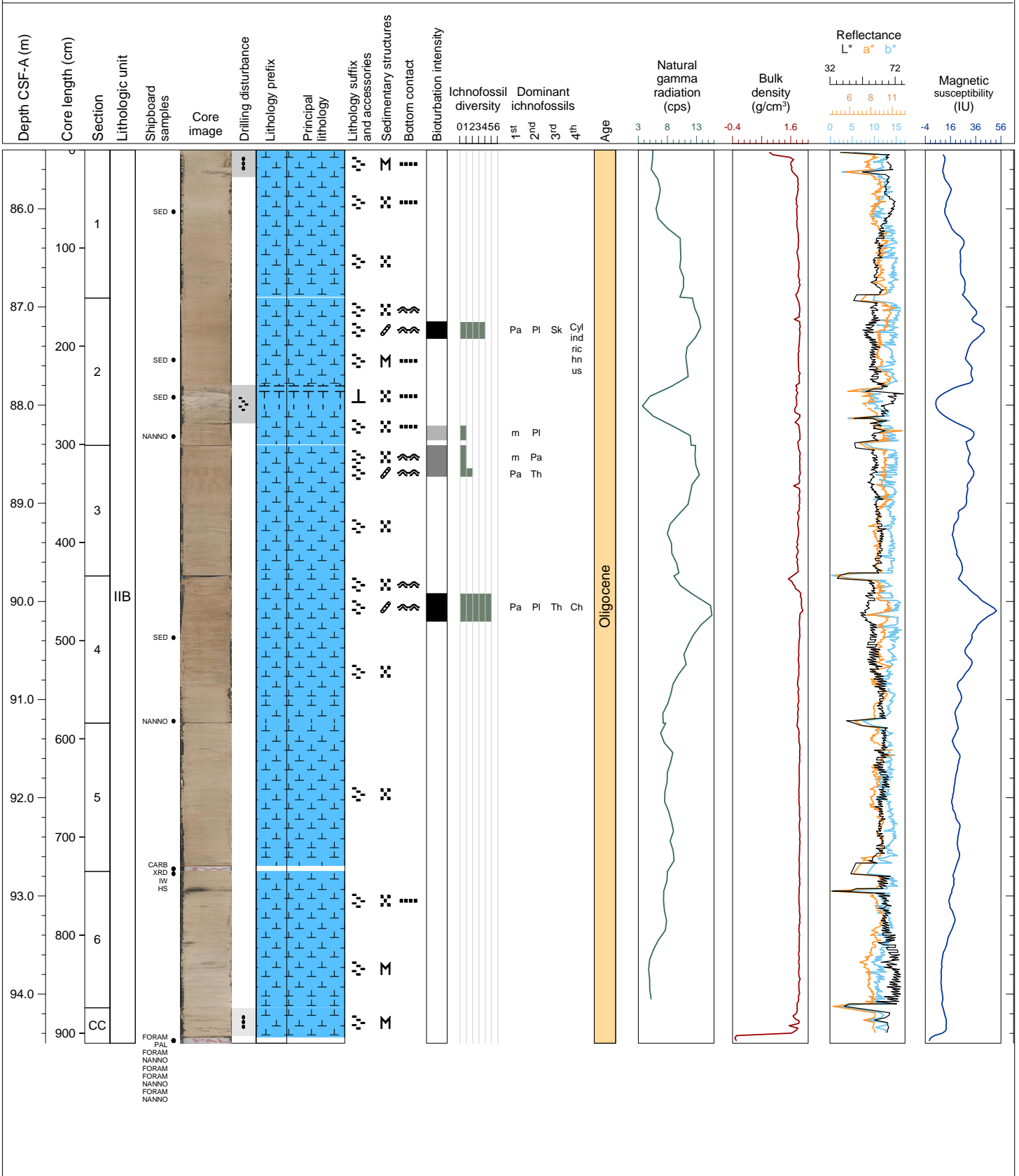
Hole 390C-U1558A Core 10H, Interval 75.9-85.71 m (CSF-A)

Core U1558A-10H contains nannofossil ooze with clay that alternates in color from whitish pink (5YR 8/3) and pink (5YR 7/3-7/4) as distinct color banding. Small dark blebs occur sporadically throughout the core. The bedding is massive and mottling is present throughout the core. Bioturbation consisted of mainly of biogenic mottling with Chondrites occurring in section 4 between 50 and 77 cm. No core disturbances were observed.



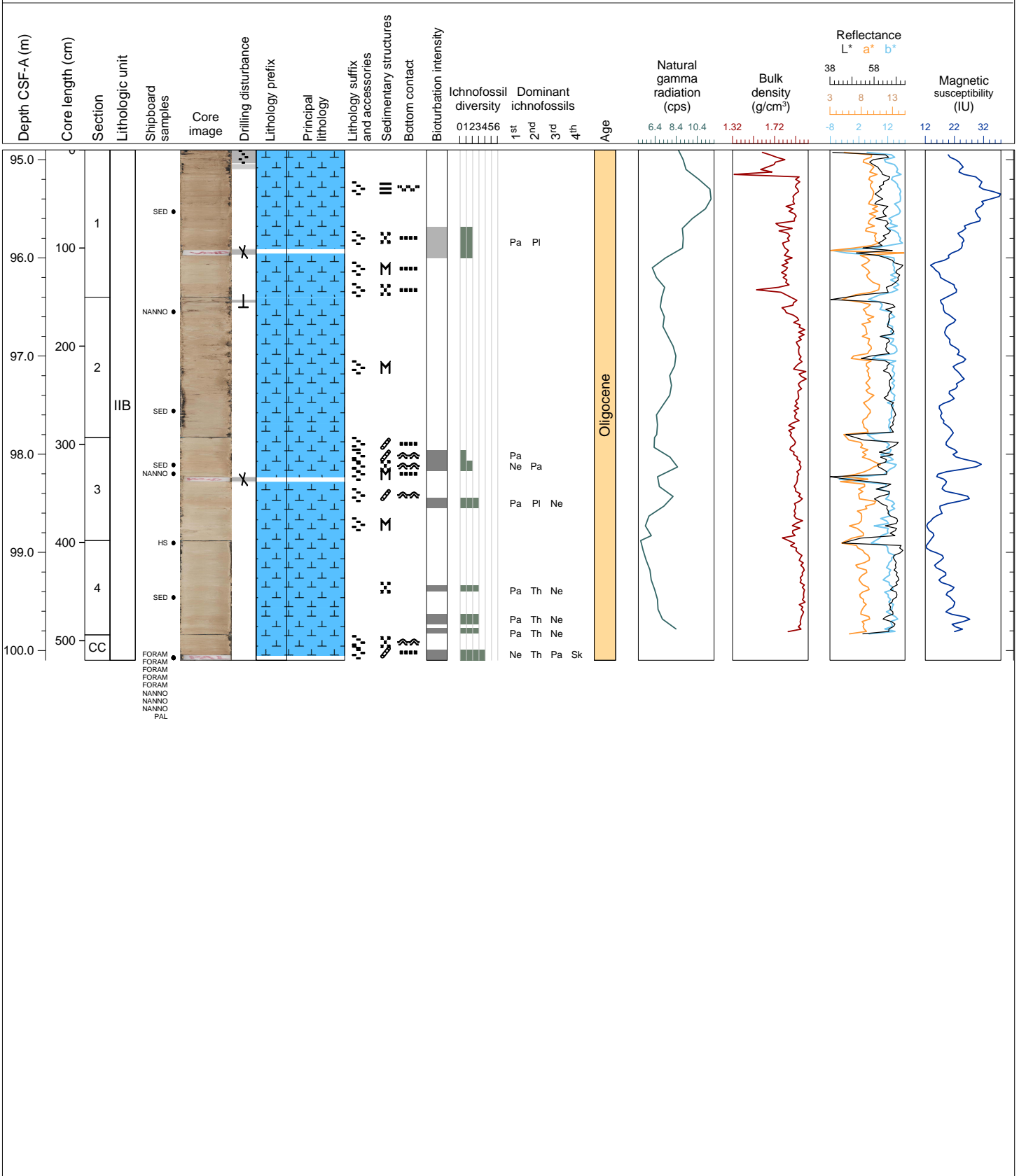
Hole 390C-U1558A Core 11H, Interval 85.4-94.5 m (CSF-A)

Core U1558A-11H contains nannofossil ooze with clay that alternates in color from whitish pink (7.5YR 8/2), pink (5YR 7/3) to light reddish brown (5YR 6/4) as distinct color banding. Small dark manganese/iron blebs occur sporadically throughout the core. The bedding is massive and mottling is present throughout the core. Bioturbation consisted of mainly of low to moderate intensity biogenic mottling with Planolites occurring in section 4 between 106 and 149 cm. Drilling disturbances include moderate soupy slurry in the upper 28 cm of section 1 and in section 2 between 88 and 128 cm.



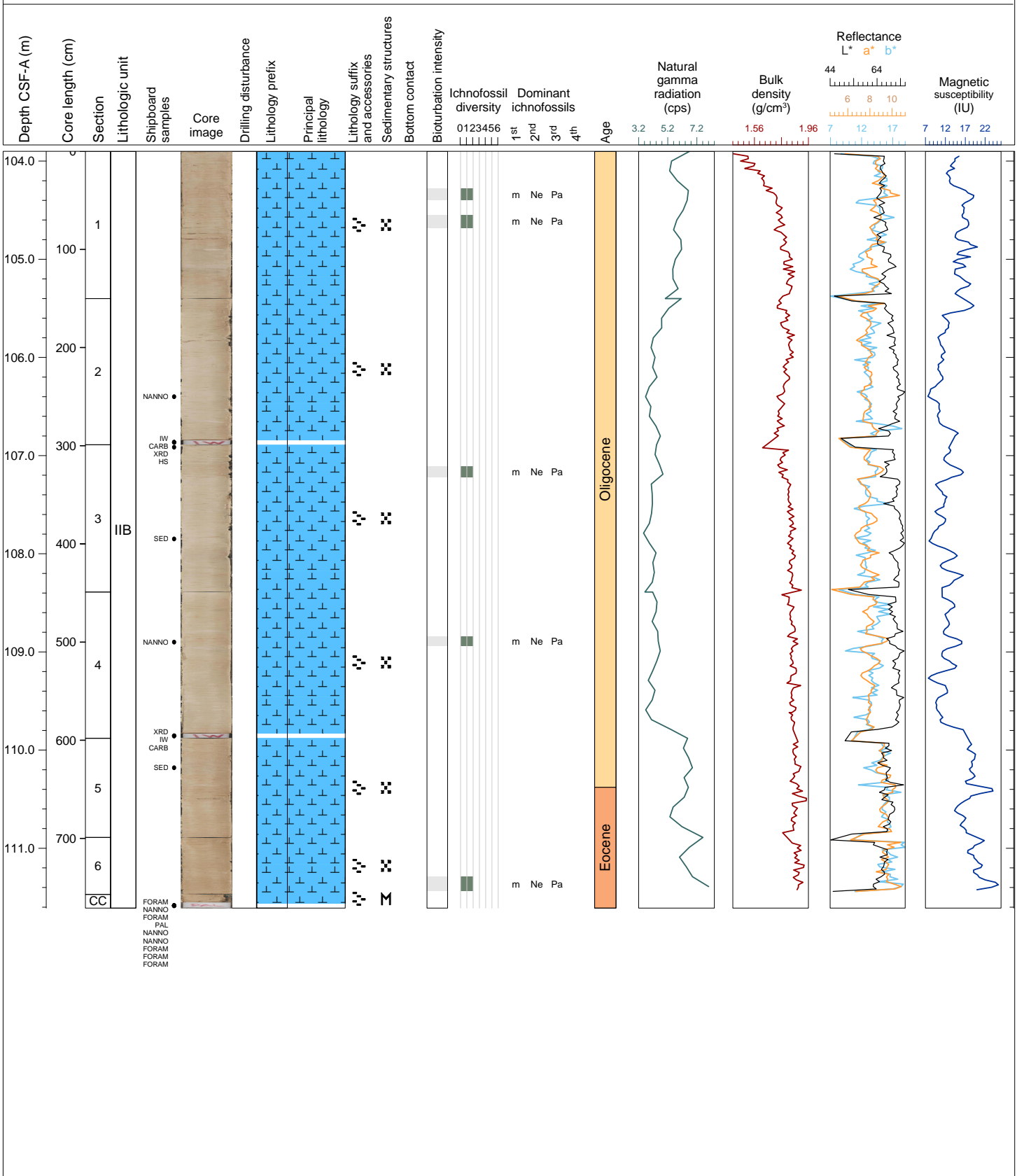
Hole 390C-U1558A Core 12X, Interval 94.9-100.1 m (CSF-A)

Core U1583A-12X contains nannofossil ooze with clay that alternates in color from whitish pink (7.5YR 8/2), pink (5YR 7/3) to light reddish brown (5YR 6/4) as subtle color banding. The bedding is massive and mottling is present throughout the core. Bioturbation intensity was low to moderate with Planolites occurring in section 3 between 0 and 106 cm. Drilling disturbances include: moderate drilling-related crack in section 1, severe fracturing in section 2 between 0 and 2.5 cm; and a 5 cm void in section 3 between 40 and 45 cm.



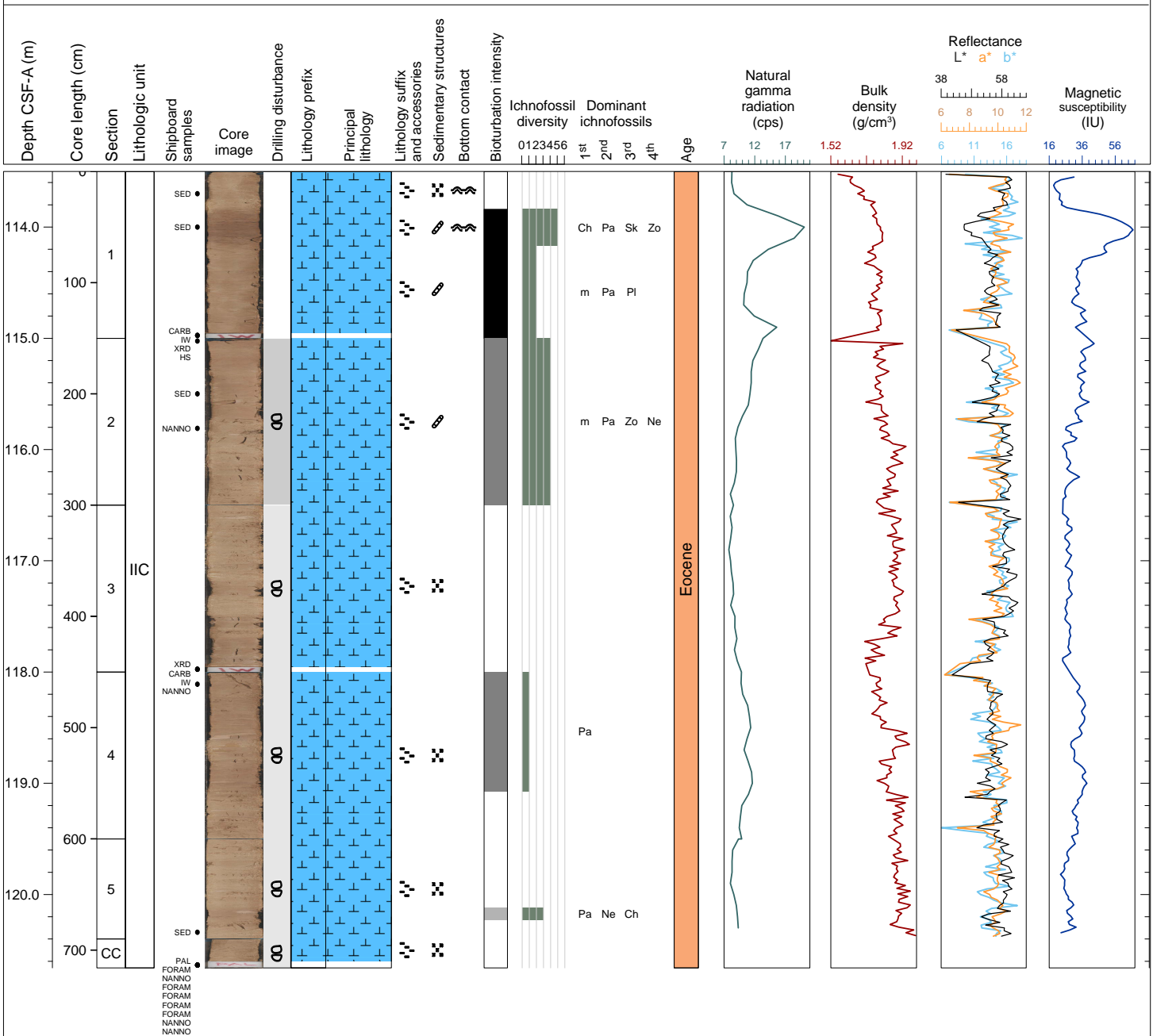
Hole 390C-U1558A Core 13X, Interval 103.9-111.61 m (CSF-A)

Core U1583A-13X contains nannofossil ooze with clay that alternates in color from whitish pink (7.5YR 8/2), pink (5YR 7/3). The bedding is massive and mottling is present throughout the core. Bioturbation intensity is sparse to low with Zoophycus observed in section 3 and Skolithos identified in section 5. No core disturbances were observed.



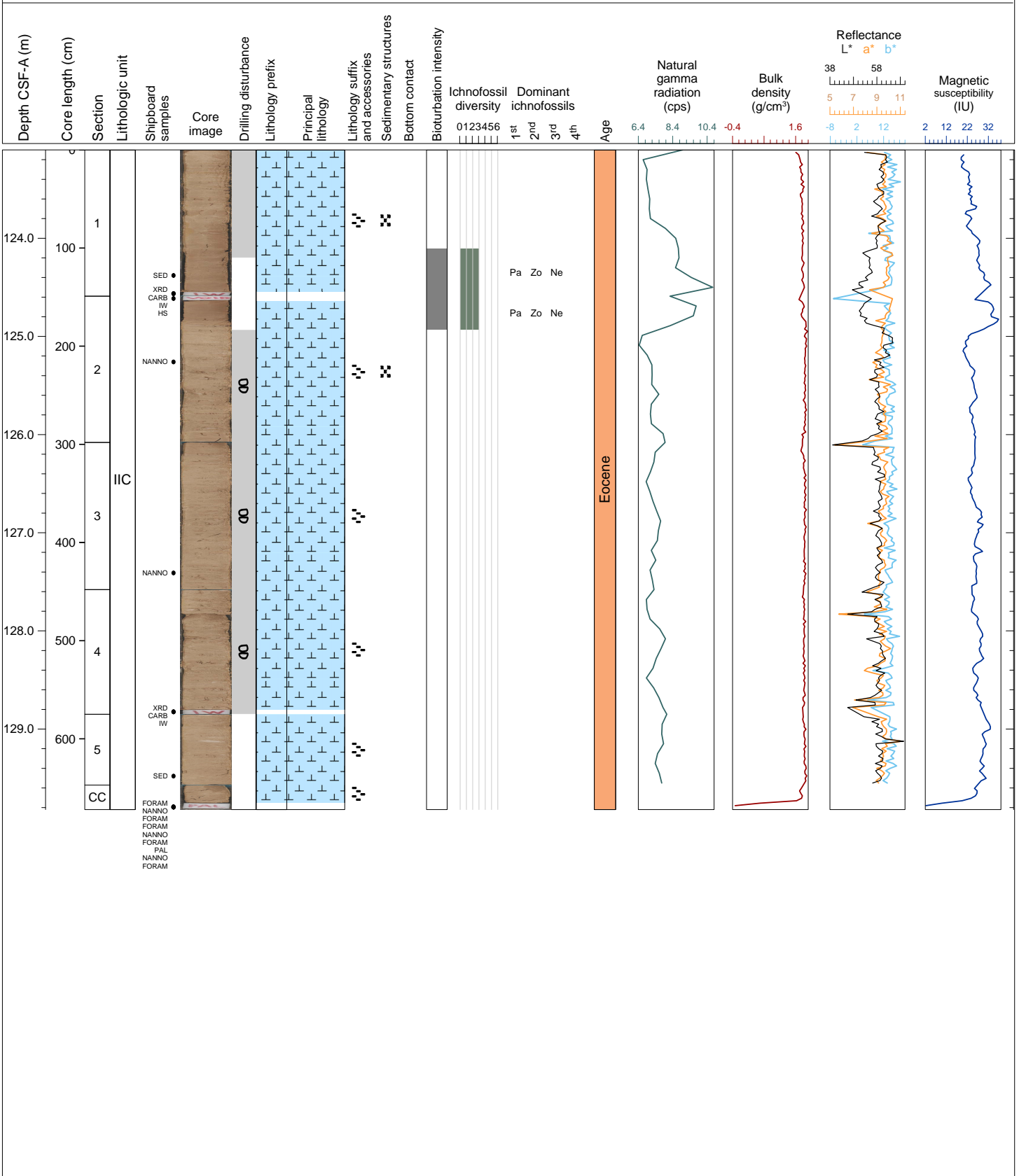
Hole 390C-U1558A Core 14X, Interval 113.5-120.66 m (CSF-A)

Core U1583A-14X contains mainly pink (5YR 7/4) nannofossil chalk with clay with 20-cm thick bed being a reddish brown color ( 5YR 5/4). The bedding is massive and mottling is rare but present throughout the core. Bioturbation is low to moderate throughout this core with biogenic mottling, Zoophycus, Planolites, Skolithos, and Thanassinoides being observed. Drilling disturbances include slight biscuits in sections 3, 4 and 5.



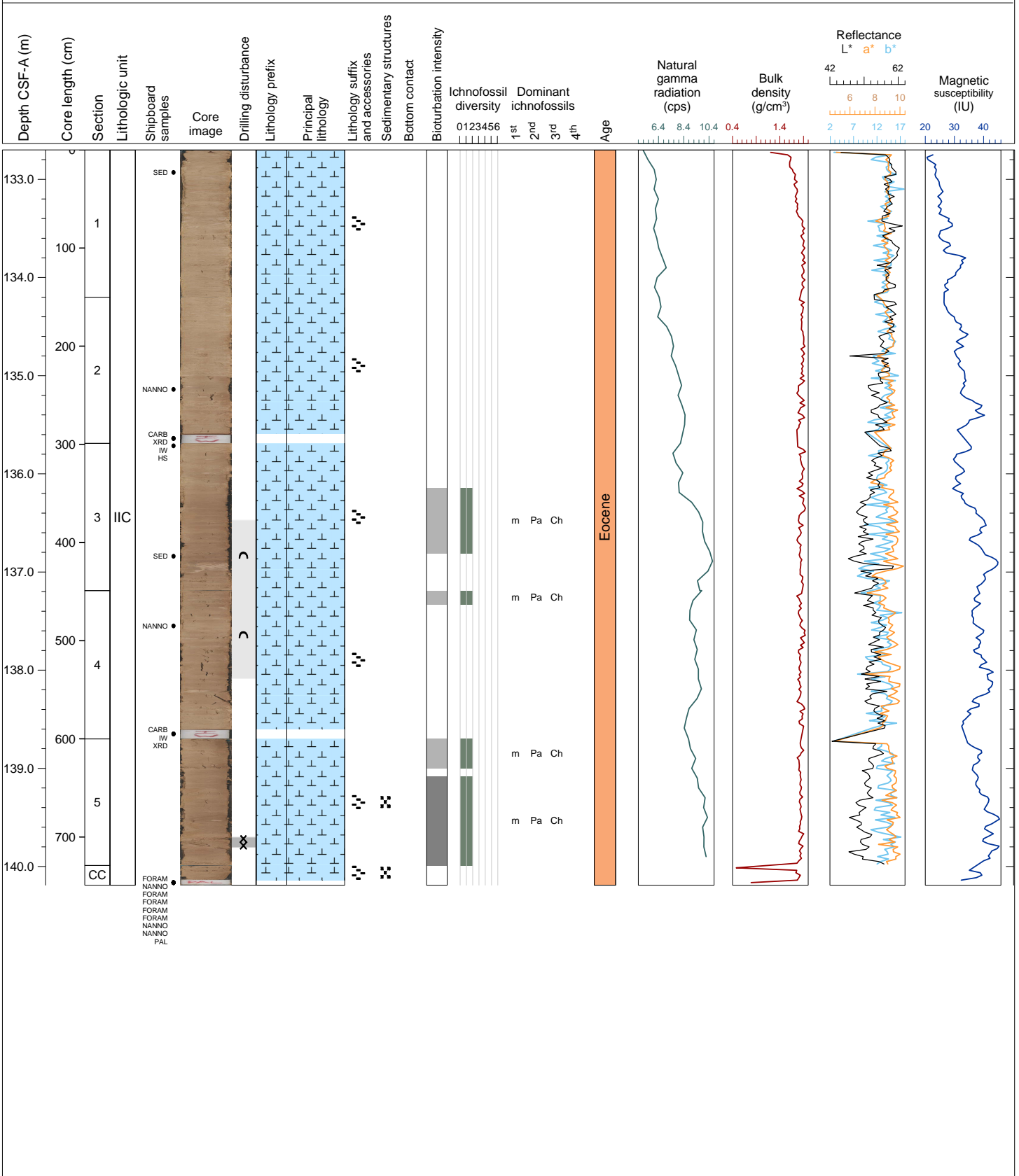
Hole 390C-U1558A Core 15X, Interval 123.1-129.82 m (CSF-A)

Core U1583A-15X contains a pink (5YR 7/3) nannofossil chalk with clay. The bedding is massive and mottling is not present in this core. Bioturbation is generally absent in this core except in section 1 between 101 and 149 cm and in section 2 between 0 and 34 cm where Planolites and Zoophycus were observed. Drilling disturbances consisted of moderate biscuits in sections 1, 2 and 3.



Hole 390C-U1558A Core 16X, Interval 132.7-140.19 m (CSF-A)

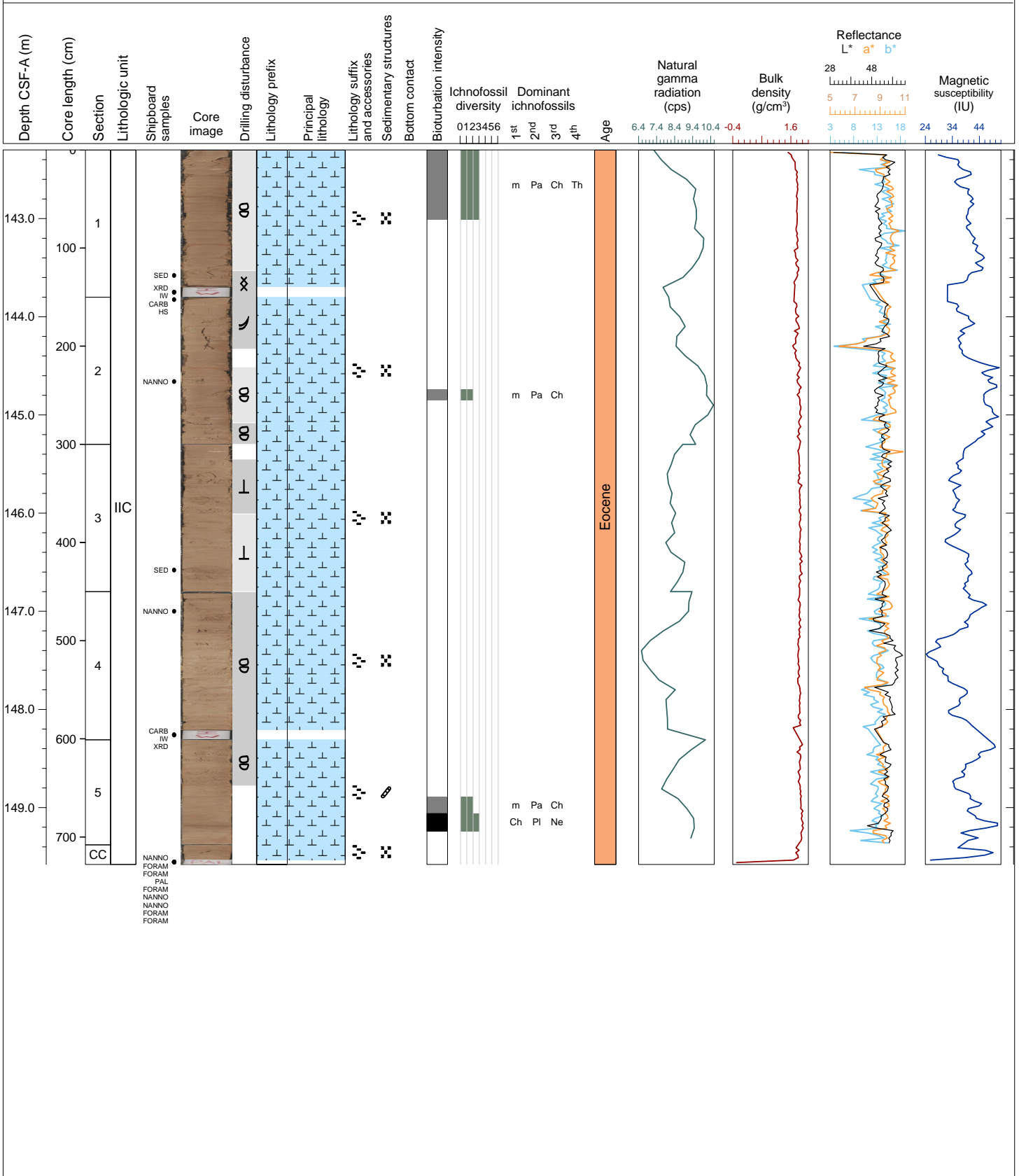
Core U1583A-16X contains a pink (5YR 7/3) nannofossil chalk with clay. The bedding is massive and mottling is not present in this core. Bioturbation is found in the following intervals: between section 1, 0 cm to section 3, 64 cm with Zoophycus and Planolites present, section 3 between 106 and 124 cm with Chondrites present; section 4 between 90 and 151 with Zoophycus, Chondrites, and Skolithos present and in section 5 between 32 and 100 cm with Zoophycus and Planolites present. Drilling disturbances were only observed as slight up-arching in sections 3 and 4.





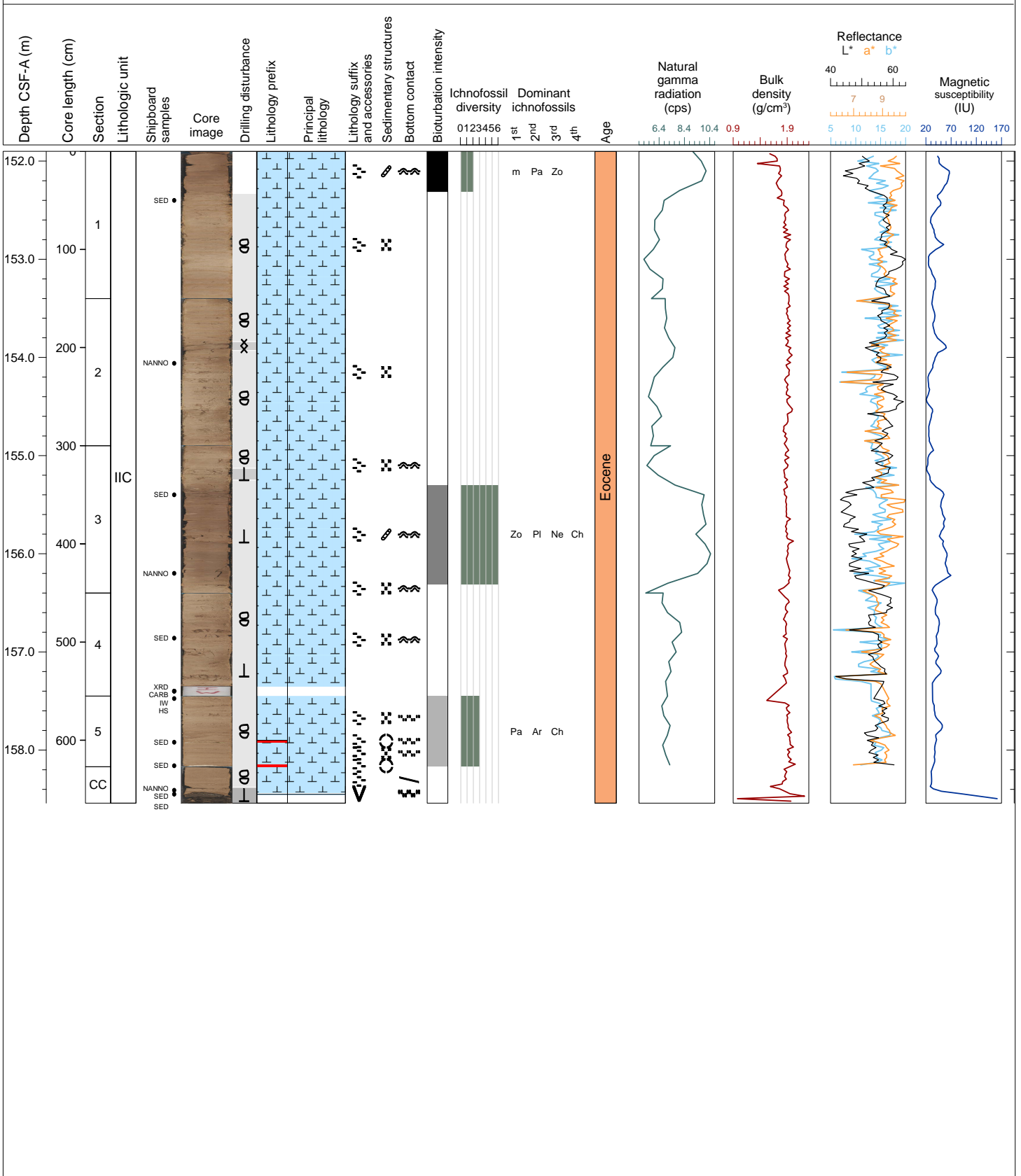
Hole 390C-U1558A Core 17X, Interval 142.3-149.58 m (CSF-A)

Core U1583A-17X contains a pink (5YR 7/3) nannofossil chalk with clay. Bioturbation is rare in this core and only occurs in section 1, 0-10 cm containing sparse Chondrites and Skolithos; section 2, 0-20 cm and 111-122 cm containing Chondrites. The bedding is massive and mottling is not present in this core. Drilling disturbances include slight to moderate biscuiting and fracturing throughout most of the core.



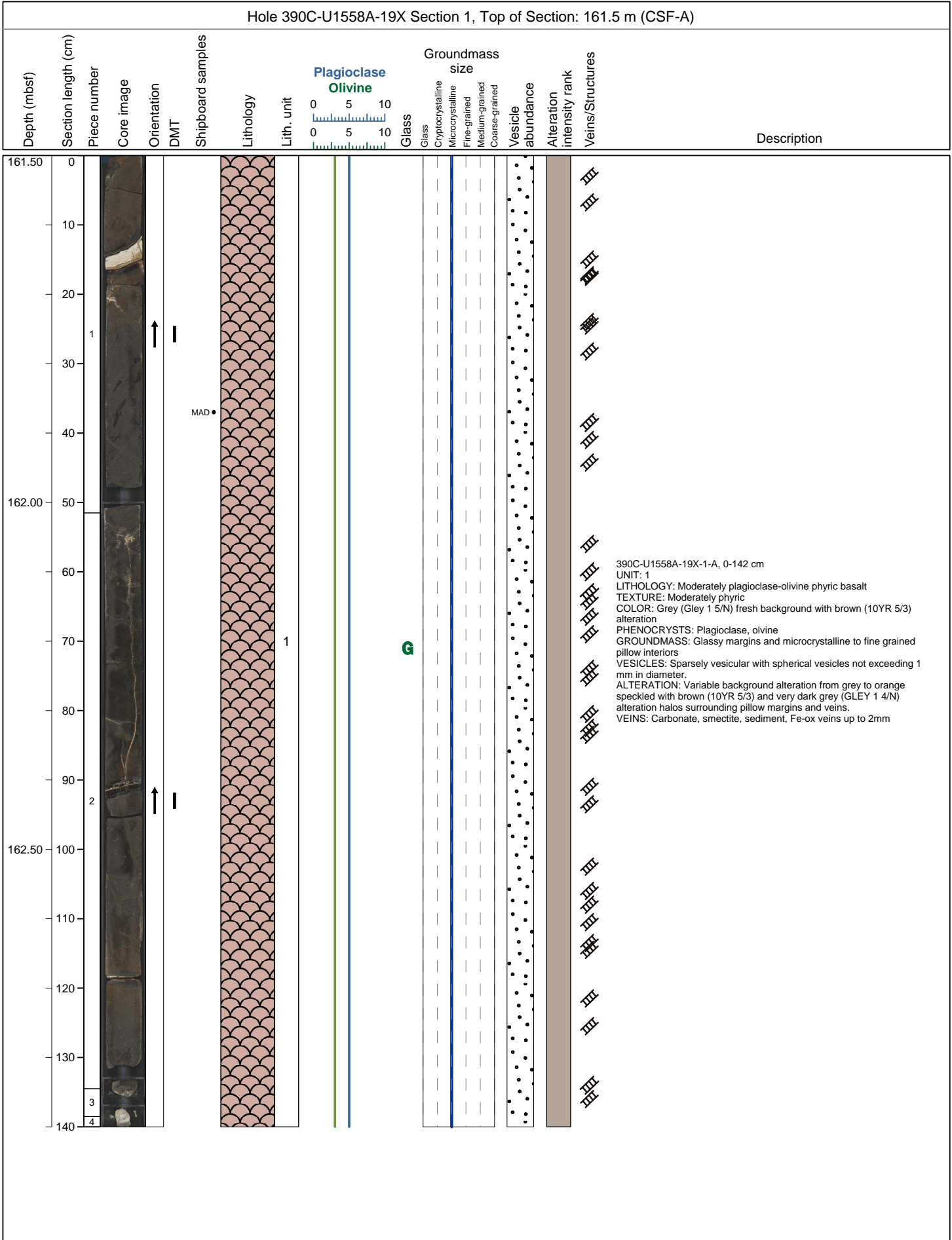
Hole 390C-U1558A Core 18X, Interval 151.9-158.54 m (CSF-A)

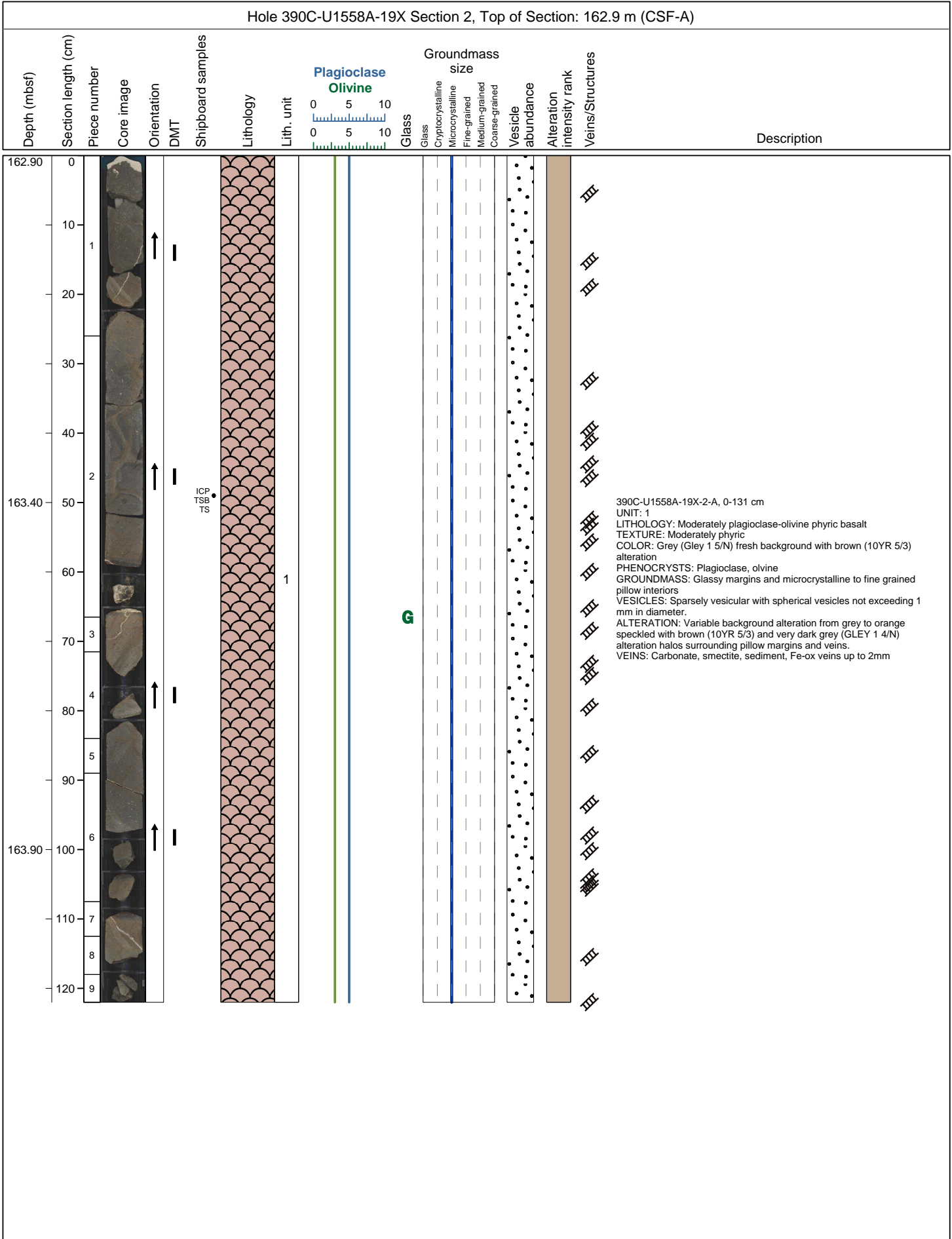
Core U1583A-18X contains a pink (5YR 7/3) and light reddish brown (5YR 6/4) nannofossil chalk with clay down to section 5 at 45 cm where it changes to alternating white (5YR 8/1) volcanic nannofossil chalk with clay and pinkish gray (5YR 7/2) to 26 cm into the core catcher. Bioturbation occurs sporadically throughout the core consisting of Planolites, Zoophycus, Chondrites, and Arenicolites ichnofossils. Slight to moderate drilling disturbances occur throughout the core that include biscuits, fractures and breccia.



Hole 390C-U1558A-18X Section CC, Top of Section: 158.17 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
158.18	0														
158.28	10														
158.38	20														
158.48	30														
															<p>390C-U1558A-18X-CC-A, 0-37 cm                      UNIT: 1                      LITHOLOGY: Moderately plagioclase-olivine phyric basalt                      TEXTURE: Moderately phyric                      COLOR: Brown (10YR 5/3) alteration with greyish brown (10YR 3/2) 5 mm thick pillow margin                      PHENOCRYSTS: Plagioclase, olvine                      GROUNDMASS: Microcrystalline                      VESICLES: Very sparsely vesicular                      ALTERATION:                      VEINS:</p>

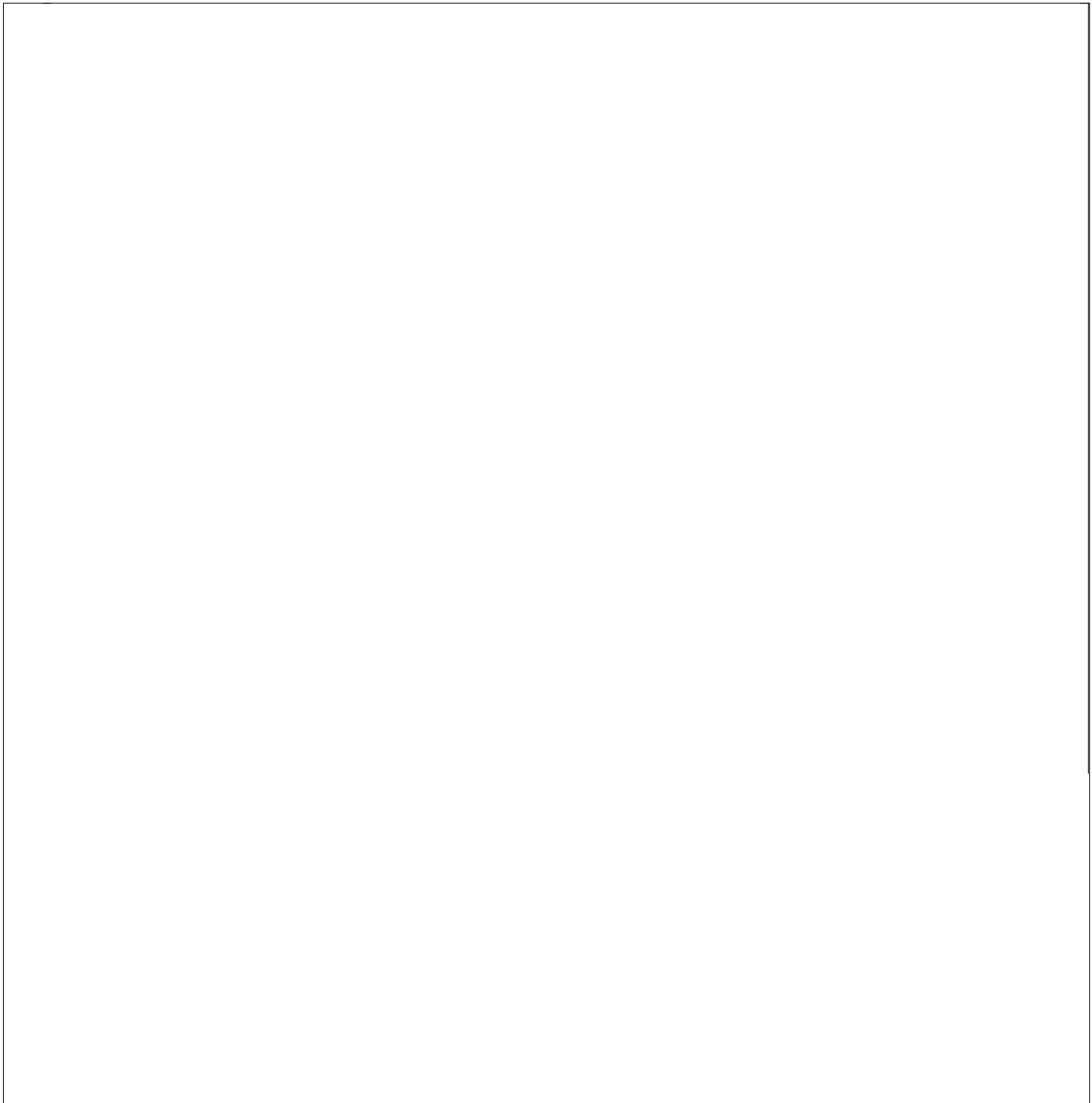
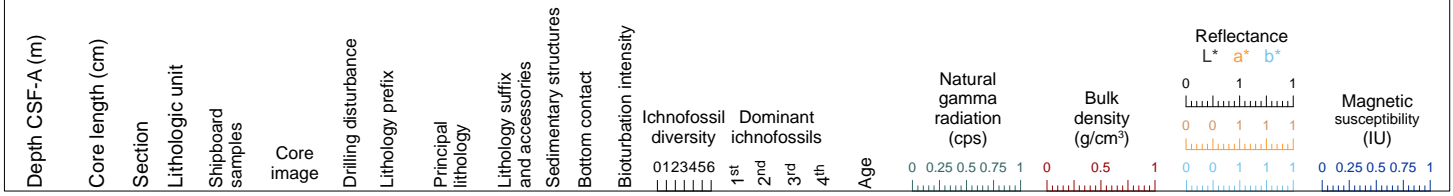




Hole 390C-U1558A-19X Section 3, Top of Section: 164.23 m (CSF-A)															
Depth (mbstf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Vesicle abundance	Alteration intensity rank	Veins/Structures	Description
164.23	0							1							390C-U1558A-19X-3-A, 0-16 cm UNIT: 1 LITHOLOGY: Moderately plagioclase-olivine phyric basalt TEXTURE: Moderately phyric COLOR: Grey (Gley 1 5/N) fresh background with brown (10YR 5/3) alteration PHENOCRYSTS: Plagioclase, olvine GROUNDMASS: Glassy margins and microcrystalline to fine grained pillow interiors VESICLES: Sparsely vesicular with spherical vesicles not exceeding 1 mm in diameter. ALTERATION: Grey background alteration with brown (10YR 5/3) and very dark grey (GLEY 1 4/N) alteration halos surrounding veins. VEINS: Carbonate, smectite, Fe-ox veins up to 1mm

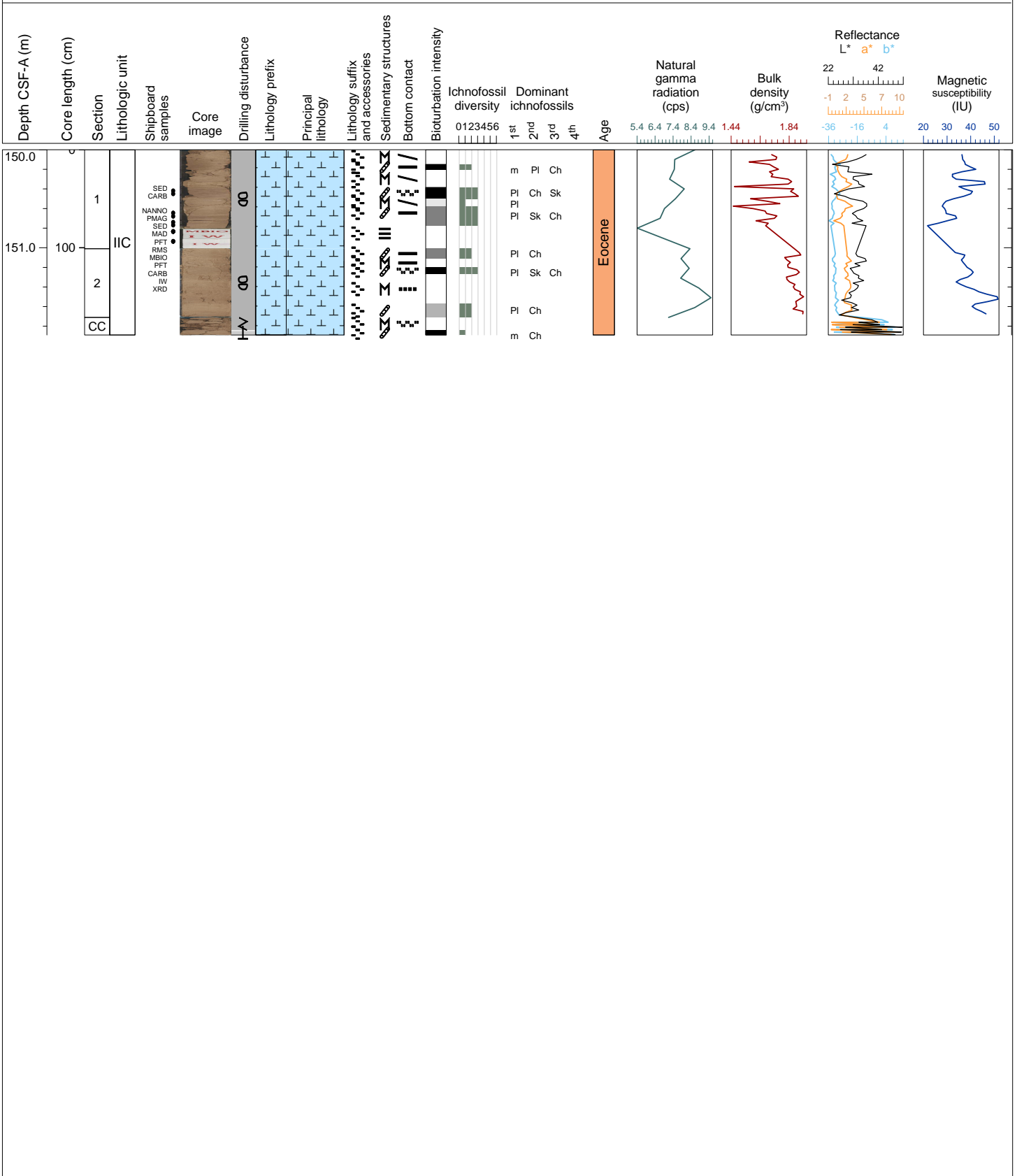
Hole 393-U1558D Core 11, Interval 0.0-150.0 m (CSF-A)

DRILLED INTERVAL 0-150.0 m



Hole 393-U1558D Core 2R, Interval 150.0-151.89 m (CSF-A)

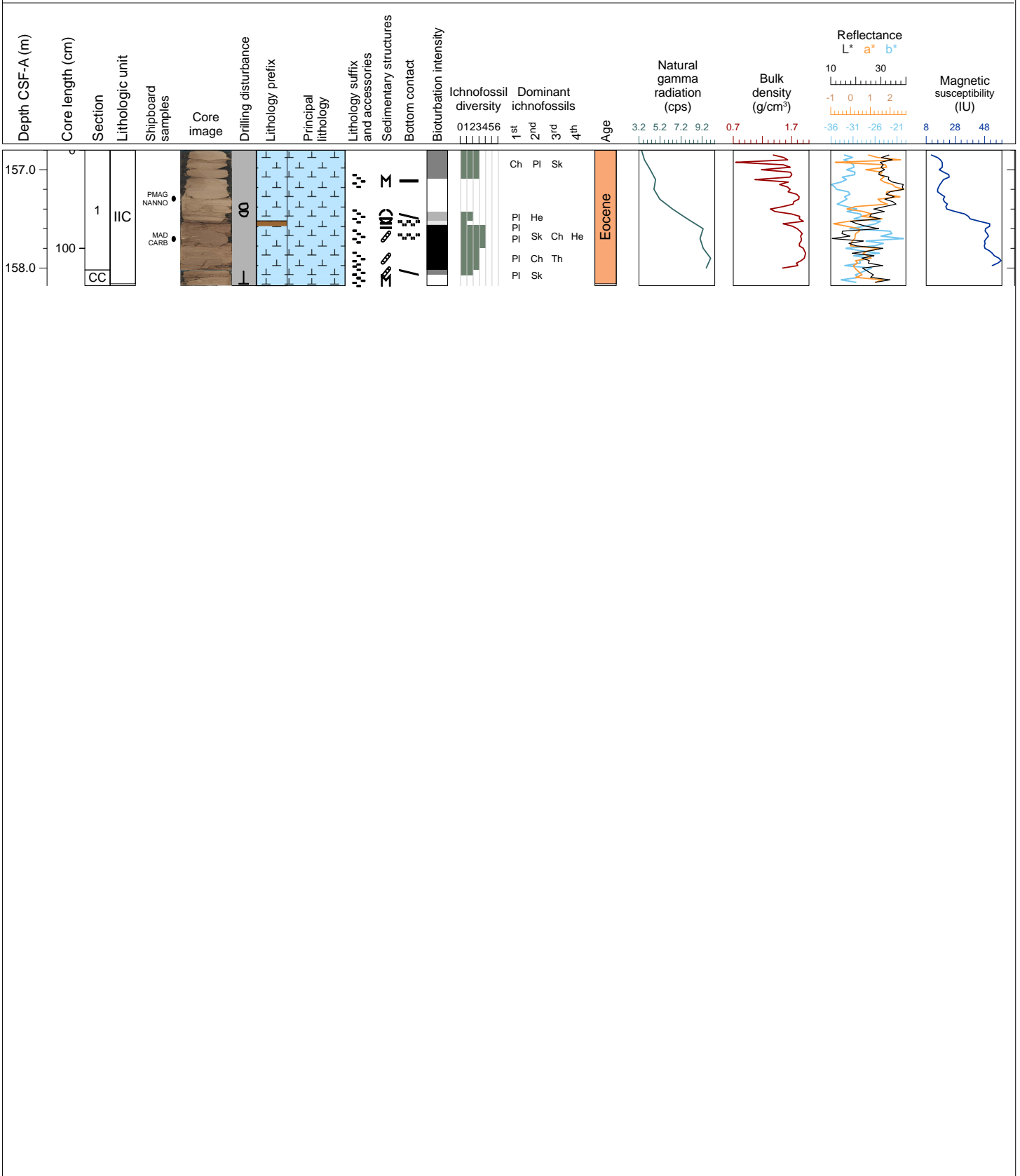
Core U1558D-2R consists of pink (7.5YR 7/3) nannofossil ooze with clay. Lithologic contacts are subangular and planar. Bedding is massive with biogenic mottling occurring within discrete decimeter-thick beds. Bioturbation intensity ranges from low to intense within these beds. Distinct ichnofossils include Planolites, Chondrites, Skolithos, Thalassinoides and Helminthopsis. Diversity ranges from 1 to 3 and the maximum diameter ranges from 3 to 10 mm. Sever disturbances from biscuits occur for most of this core.





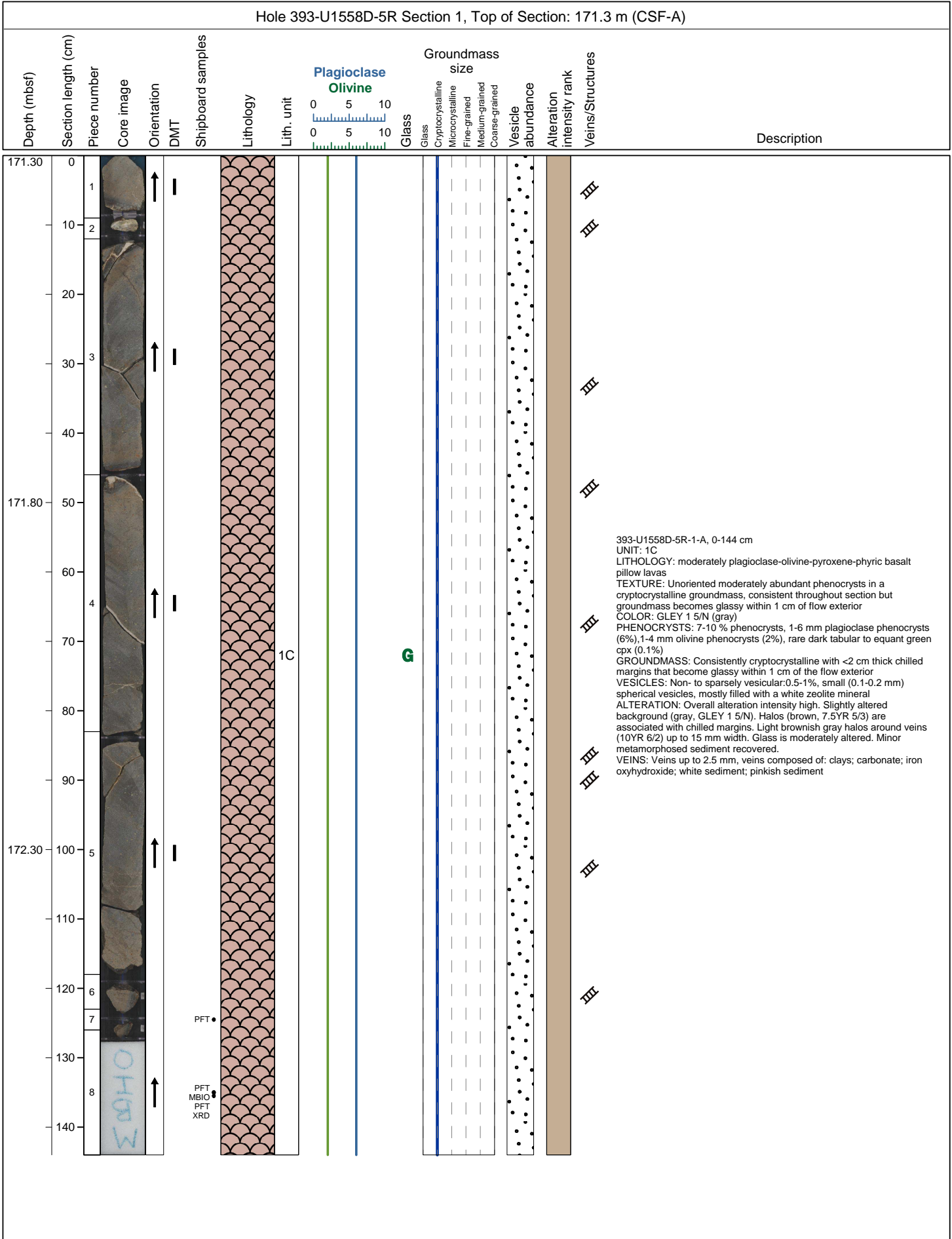
Hole 393-U1558D Core 3R, Interval 156.8-158.18 m (CSF-A)

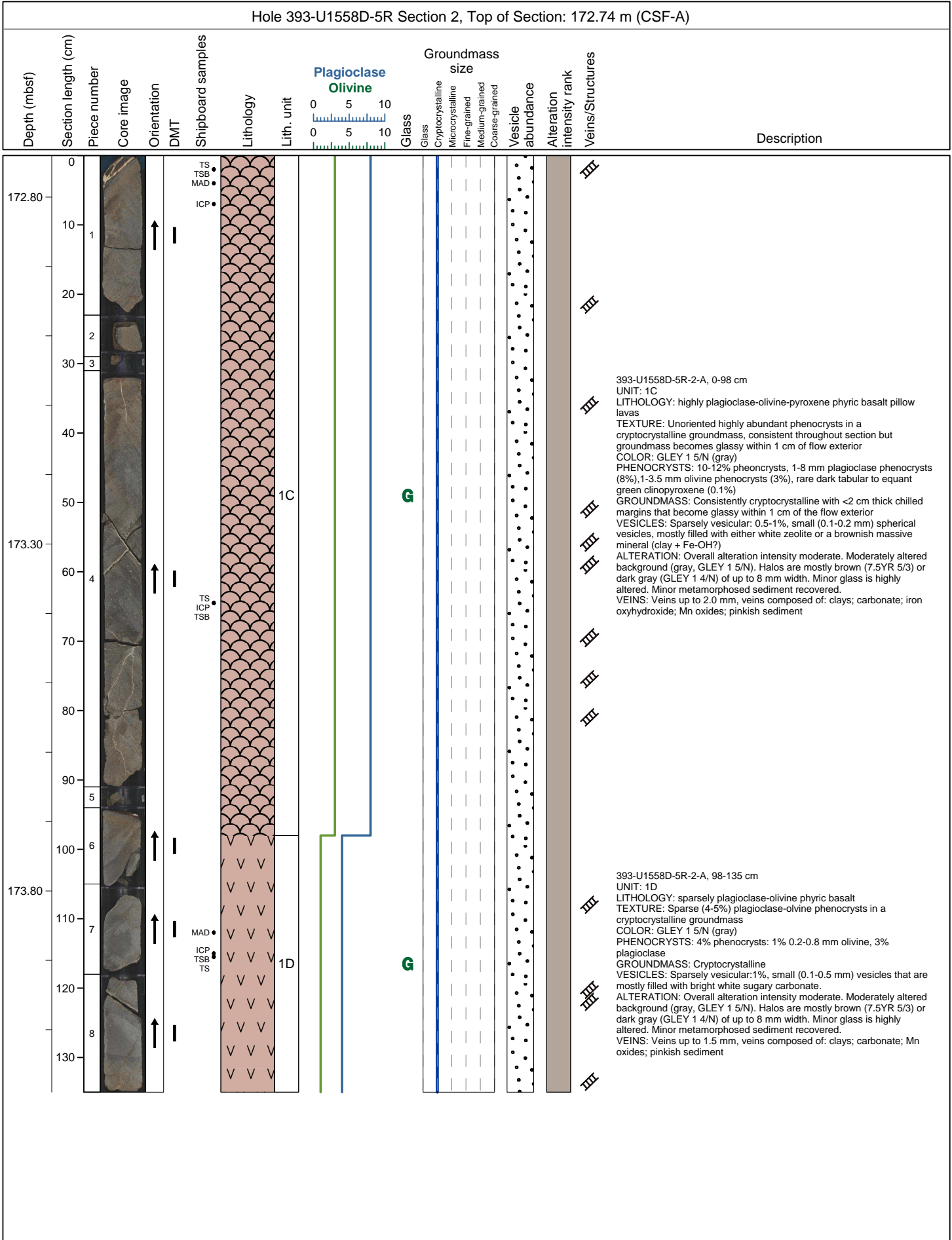
Core U1558D-3R consists of pink (7.5YR 7/3) nannofossil ooze with clay with one bed of brown (7.5YR 4/6) clayey nannofossil chalk occurring in section 1 between 72 and 77 cm. lithologic contacts are subangular, bioturbated to gradational. Massive bedding as well as mottling occur in this core. Biogenic mottling occurs in discrete decimeter-thick beds. Within these beds are distinct ichnogenera occurred and include Planolites, Chondrites, Skolithos, Thalassinoides, and Helminthopsis. Diversity ranges from 1 to 4 and the maximum diameter ranges from 5 to 10 mm. Most of this core suffers from severe drilling disturbances that include biscuited sediments and fracturing.

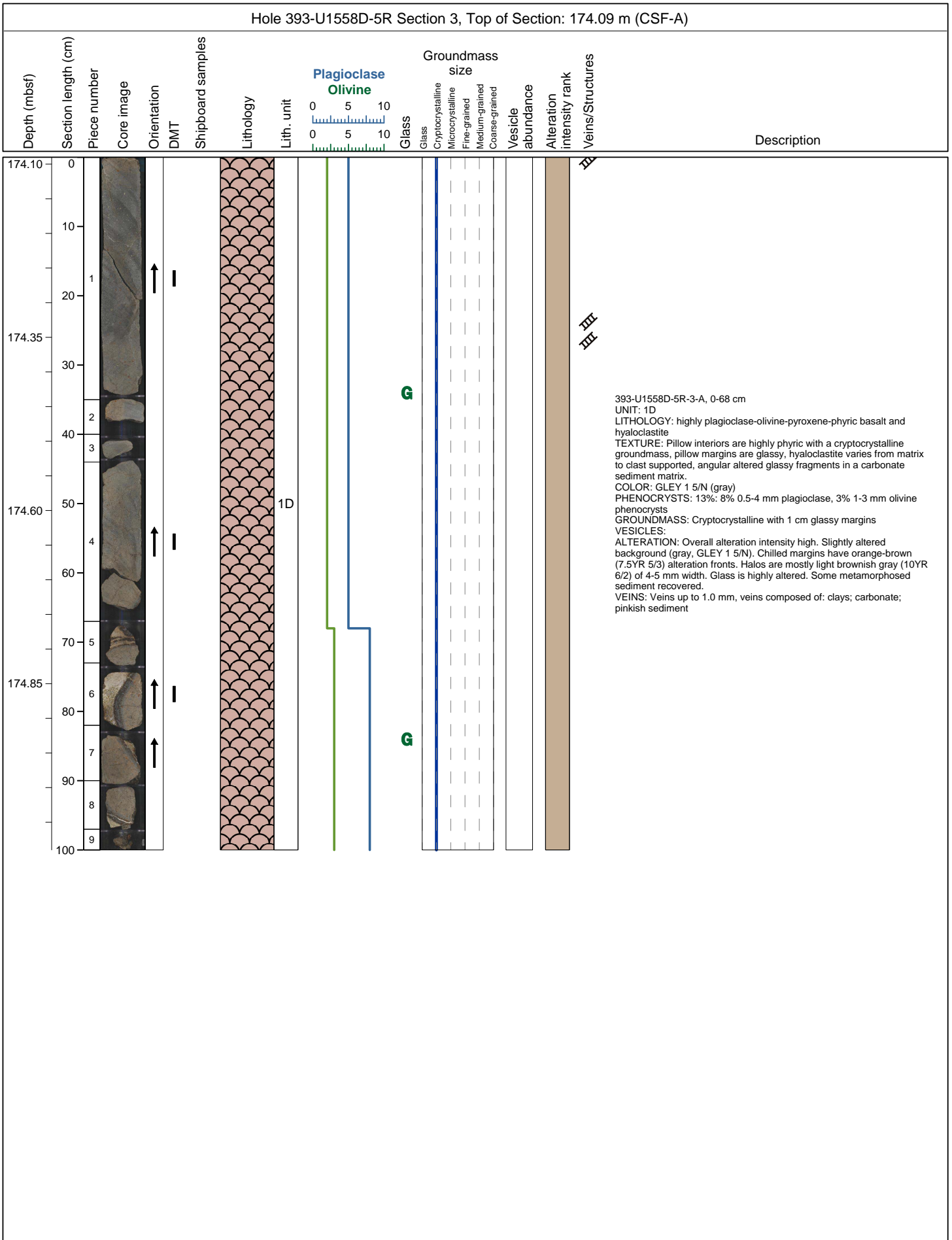


Hole 393-U1558D-4R Section 1, Top of Section: 166.5 m (CSF-A)													
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Groundmass size	Alteration intensity rank	Veins/Structures	Description
									0 5 10 0 5 10	Glass Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained			
166.50	0	1					NANNO • Sediment						393-U1558D-4R-1-A, 0-5 cm UNIT: Sediment LITHOLOGY: Limestone TEXTURE: COLOR: GLEY 1 5/N (gray) PHENOCRYSTS: GROUNDMASS: VESICLES: ALTERATION: VEINS:
	10	2					V V						
	20	3					V V						
	30	4					V V						
166.75	30	5					XRD • V V	1A		G			393-U1558D-4R-1-A, 5-57 cm UNIT: 1A LITHOLOGY: highly plagioclase-olivine-pyroxene phyric basalt sheet flow TEXTURE: Unoriented highly abundant phenocrysts in a cryptocrystalline groundmass, consistent throughout section but groundmass becomes glassy within 1 cm of the flow exterior COLOR: GLEY 1 5/N (gray) PHENOCRYSTS: 10-12 % phenocrysts, 1-6 mm plagioclase phenocrysts (8%) and 1-4 mm olivine phenocrysts (4%), rare dark tabular green cpx (0.1%) and extremely rare spinel (0.1 mm) with olivine GROUNDMASS: Consistently cryptocrystalline with <2 cm thick chilled margins that become glassy within 1 cm of the flow exterior VESICLES: Non- to sparsely vesicular: Mostly 0.5-1%, small (0.1-0.3 mm) spherical vesicles, one interval (28-31 cm) has a 20 mm partially filled vug with euhedral prismatic + terminated zeolites grown into open space, with some yellow clay at the bases of crystals. Tarnished pyrite fills vesicles in lowermost piece (Pc 6, 55-56 cm) ALTERATION: Overall alteration intensity high. Moderately altered background (gray, GLEY 1 5/N). Orange-brown (7.5YR 5/3) alteration fronts extending from chilled margins and covering whole pieces. Glass is highly altered. Some metamorphosed sediment recovered. VEINS: Veins up to 2.5 mm, veins composed of: clays; carbonate; white sediment; yellow green unknown
	40	6					V V						
167.00	50	7					V V	1B					393-U1558D-4R-1-A, 57-65 cm UNIT: 1B LITHOLOGY: Chalk TEXTURE: COLOR: 10 YR_1 9/ (white) PHENOCRYSTS: GROUNDMASS: VESICLES: ALTERATION: Glass is highly altered VEINS:
	60	8					TSB • TS • NANNO • V V						
	70	9					V V						
167.25	80	10					V V	1C		G			393-U1558D-4R-1-A, 65-93 cm UNIT: 1C LITHOLOGY: highly plagioclase-olivine-pyroxene phyric basalt sheet flow TEXTURE: Unoriented highly abundant phenocrysts in a cryptocrystalline groundmass, consistent throughout section but groundmass becomes glassy within 1 cm of the flow exterior COLOR: 7.5YR 5/3 (brown) PHENOCRYSTS: 10-12 % phenocrysts, 1-6 mm plagioclase phenocrysts (8%), 1-4 mm olivine phenocrysts (4%), dark tabular to equant green cpx (0.1%) GROUNDMASS: Consistently cryptocrystalline with <2 cm thick chilled margins that become glassy within 1 cm of the flow exterior VESICLES: Non- to sparsely vesicular: 0.5-1%, small (0.1-0.3 mm) spherical vesicles, mostly unfilled ALTERATION: Overall alteration intensity high. Moderately altered background (gray, GLEY 1 5/N). Orange-brown (7.5YR 5/3) alteration fronts extending from chilled margins and covering whole pieces. Glass is highly altered. Some metamorphosed sediment recovered. VEINS: Veins up to 0.5 mm, veins composed of: clays; zeolite; white sediment
	90	11					V V						

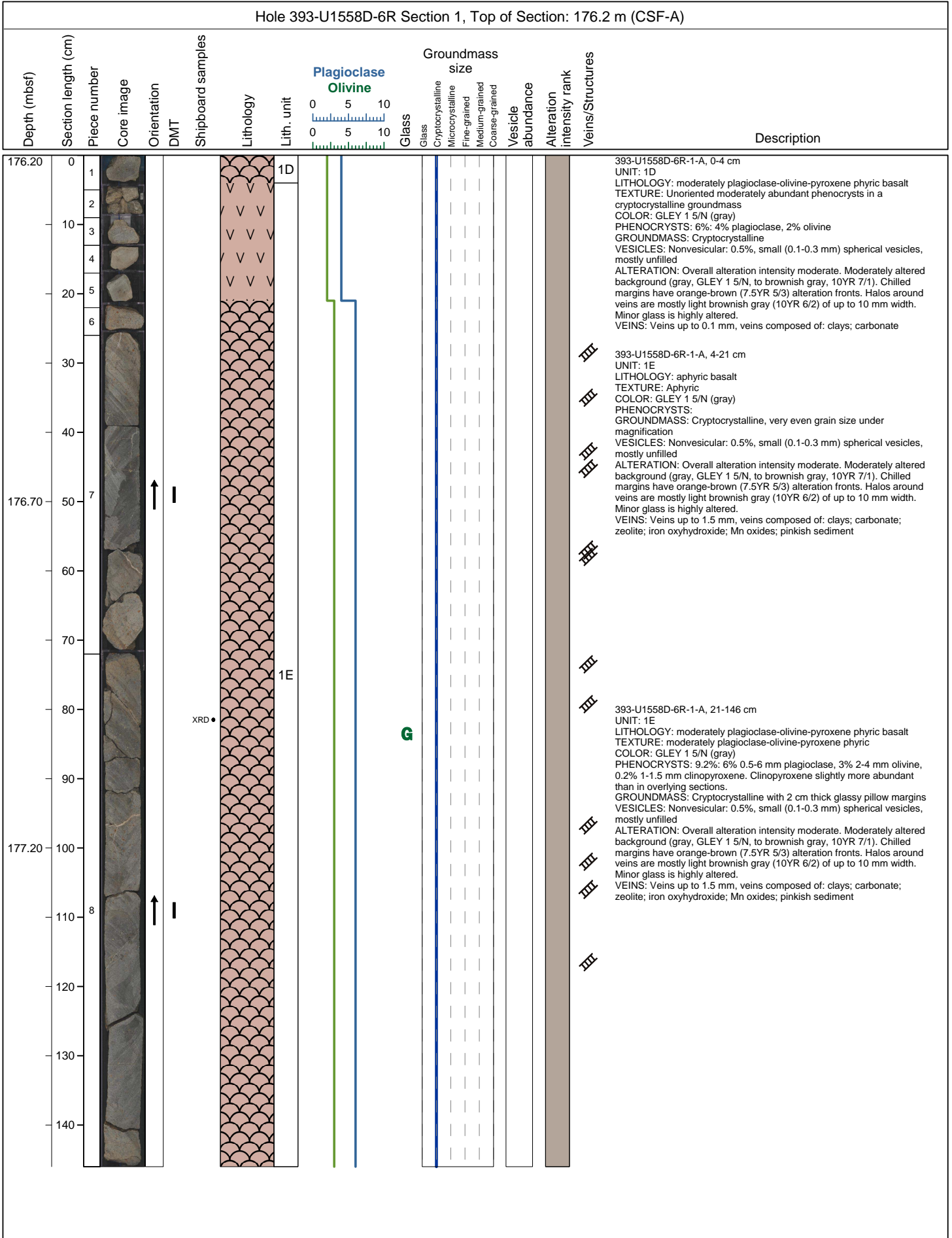
Hole 393-U1558D-4R Section 2, Top of Section: 167.43 m (CSF-A)																
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Vesicle abundance	Alteration intensity rank	Veins/Structures	Description	
167.44	0	1														<p>393-U1558D-4R-2-A, 0-59.5 cm                      UNIT: 1C                      LITHOLOGY: highly plagioclase-olivine-pyroxene phyric basalt pillow lavas                      TEXTURE: Unoriented highly abundant phenocrysts in a cryptocrystalline groundmass, consistent throughout section but groundmass becomes glassy within 1 cm of flow exterior                      COLOR: GLEY 1 6/N (gray)                      PHENOCRYSTS: 8-12 % phenocrysts, 1-6 mm plagioclase phenocrysts (8%), 1-4 mm olivine phenocrysts (4%), rare dark tabular to equant green cpx (0.1%)                      GROUNDMASS: Consistently cryptocrystalline with &lt;2 cm thick chilled margins that become glassy within 1 cm of the flow exterior                      VESICLES: Non- to sparsely vesicular: 0.5-1%, small (0.1-0.3 mm) spherical vesicles, mostly filled with a white mineral                      ALTERATION: Overall alteration intensity high. Moderately altered background (gray, GLEY 1 5/N). Orange-brown (7.5YR 5/3) alteration fronts extending from chilled margins and covering whole pieces. Minor glass is moderately altered.                      VEINS: Veins up to 2.5 mm, veins composed of: clays; carbonate; zeolite; yellow green unknown</p>
	10	2														
167.64	20	3														
	30	4						1C		G						
167.84	40	5				PFT										
	50	6														



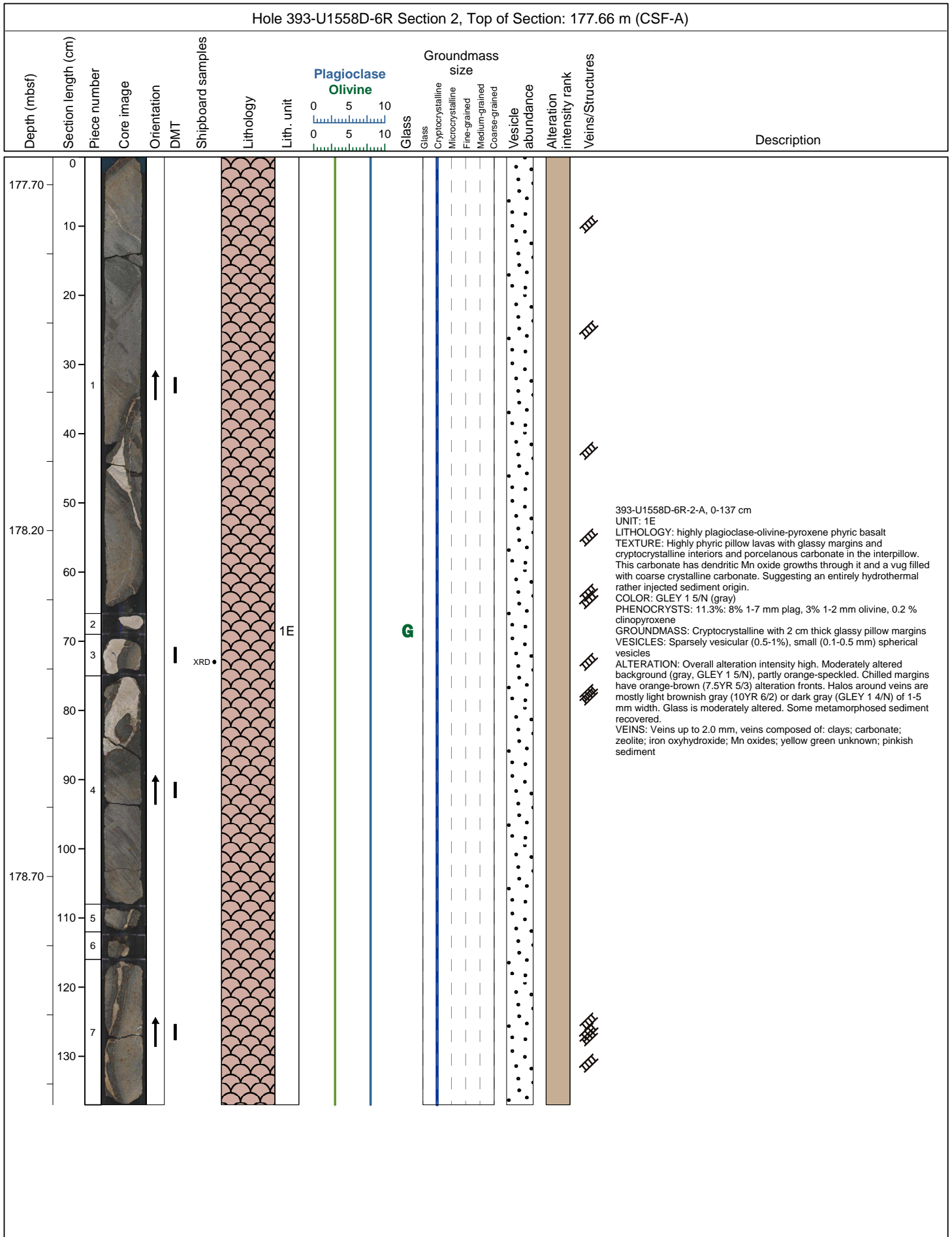


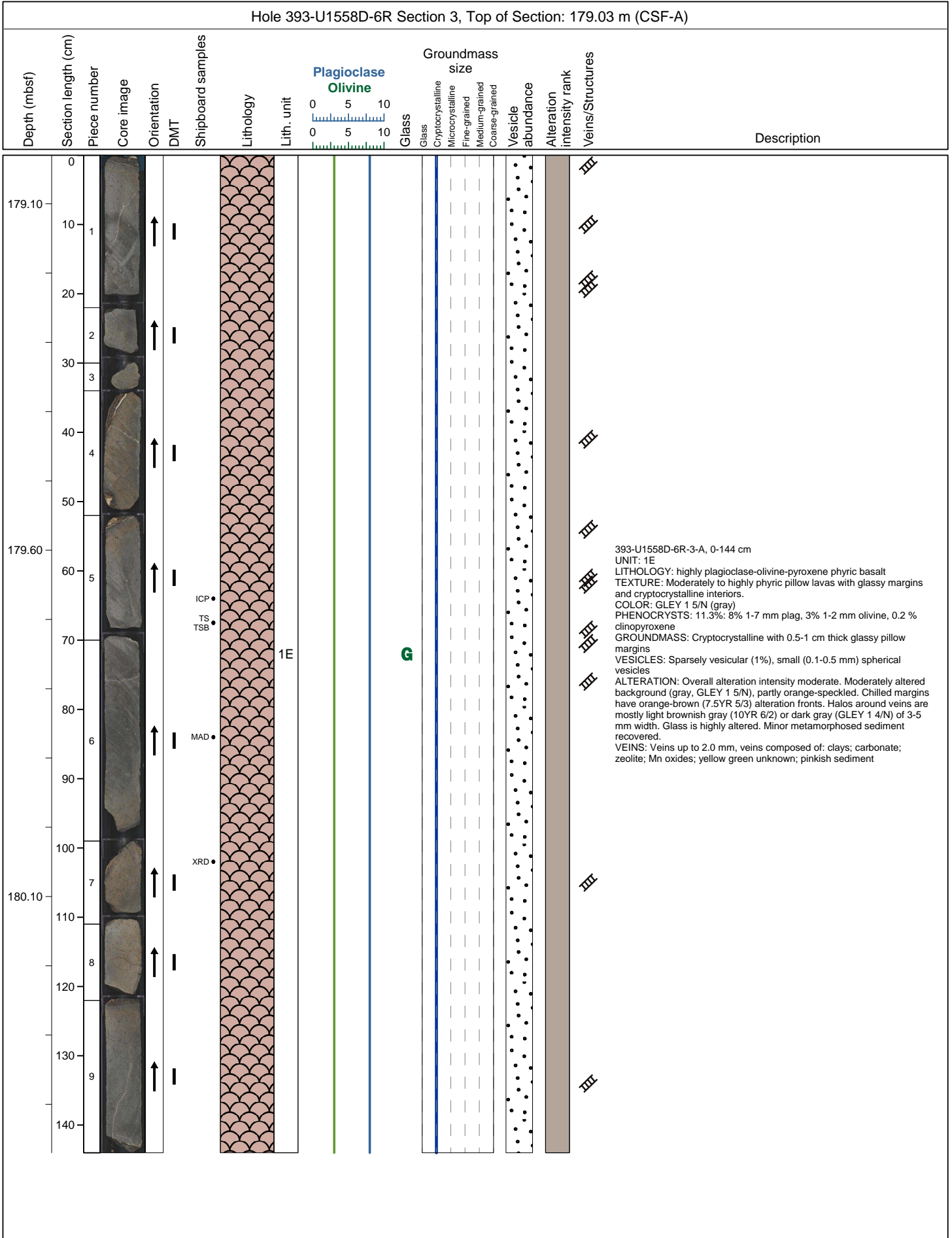


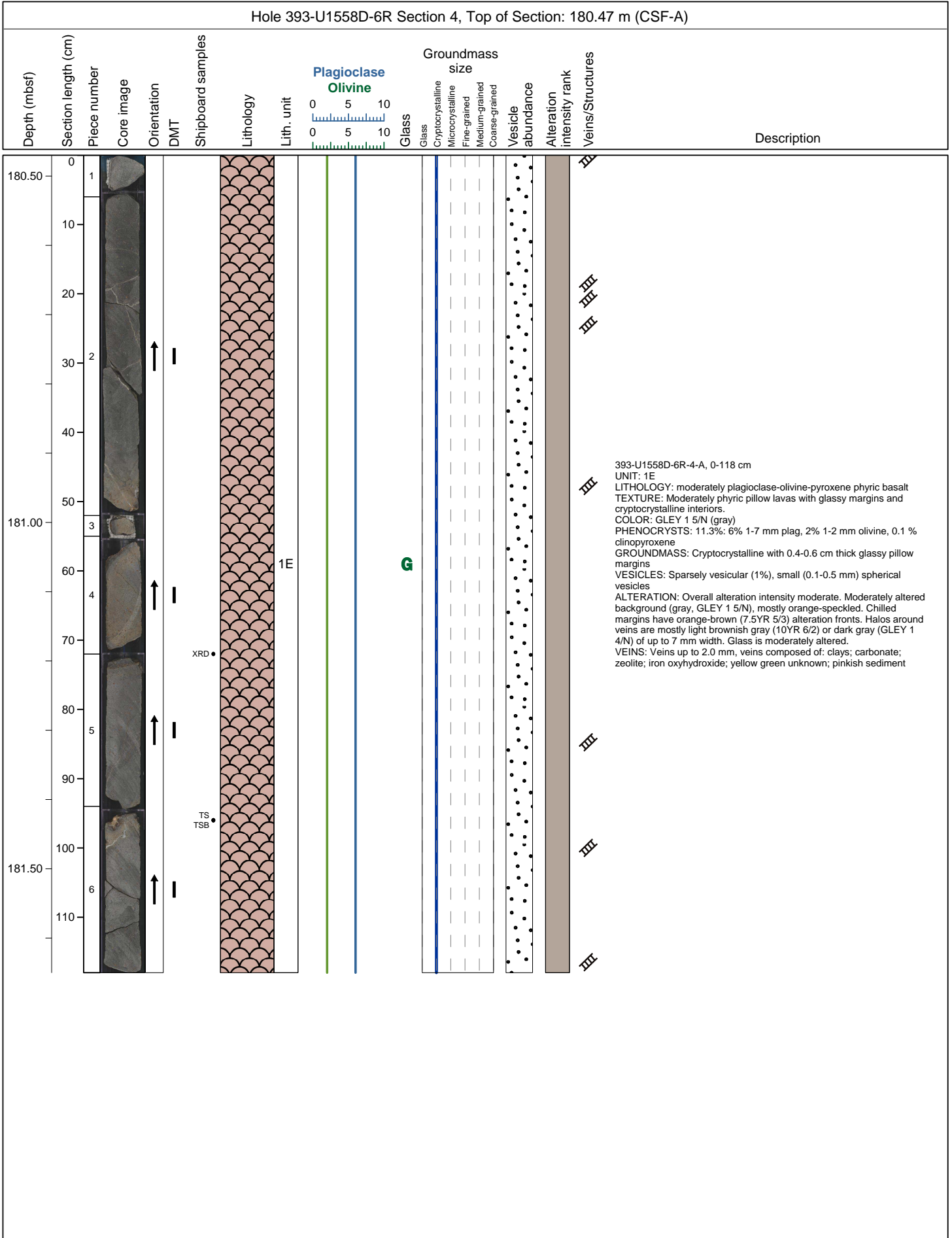
Hole 393-U1558D-5R Section 4, Top of Section: 175.09 m (CSF-A)															
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Vesicle abundance	Alteration intensity rank	Veins/Structures	Description
175.12	0														<p>393-U1558D-5R-4-A, 0-85 cm                      UNIT: 1D                      LITHOLOGY: highly plagioclase-olivine-pyroxene phyric basalt                      TEXTURE: Unoriented moderately abundant phenocrysts in a cryptocrystalline groundmass                      COLOR: GLEY 1 5/N (gray)                      PHENOCRYSTS: 10% phenoc rysts: 7% plagioclase, 3% olivine,                      GROUNDMASS: Cryptocrystalline                      VESICLES: Nonvesicular (0.5%)                      ALTERATION: Overall alteration intensity moderate. Slightly altered, partly mottled background (gray, GLEY 1 5/N). Halos are mostly light brownish gray (10YR 6/2) of up to 8 mm width; less common are dark gray (GLEY 1 4/N) halos. Minor glass is highly altered.                      VEINS:</p>
175.32	10	1													
175.52	20	2													
175.72	30	3													
	40	4													
175.92	50	5													
	60	6													
	70														

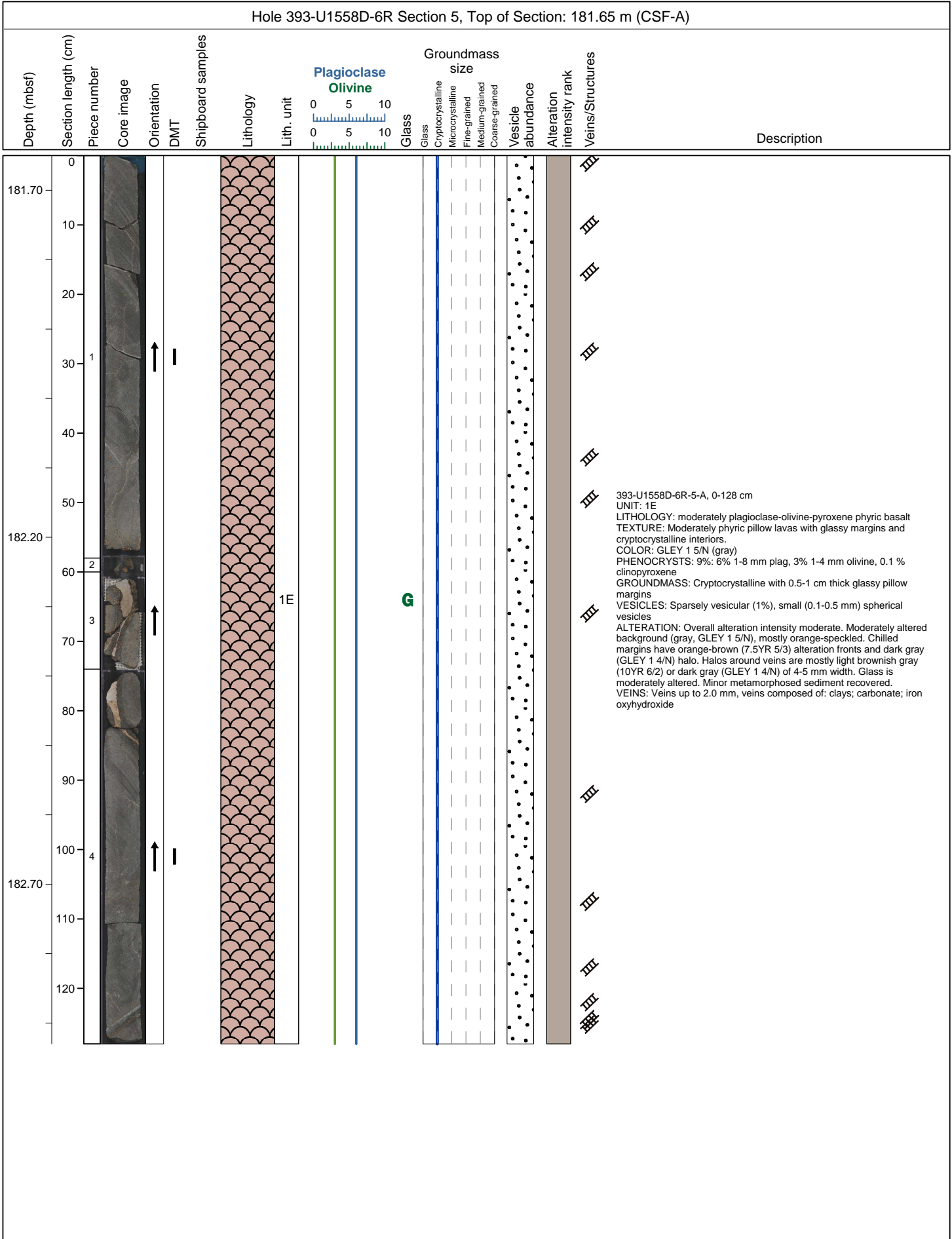




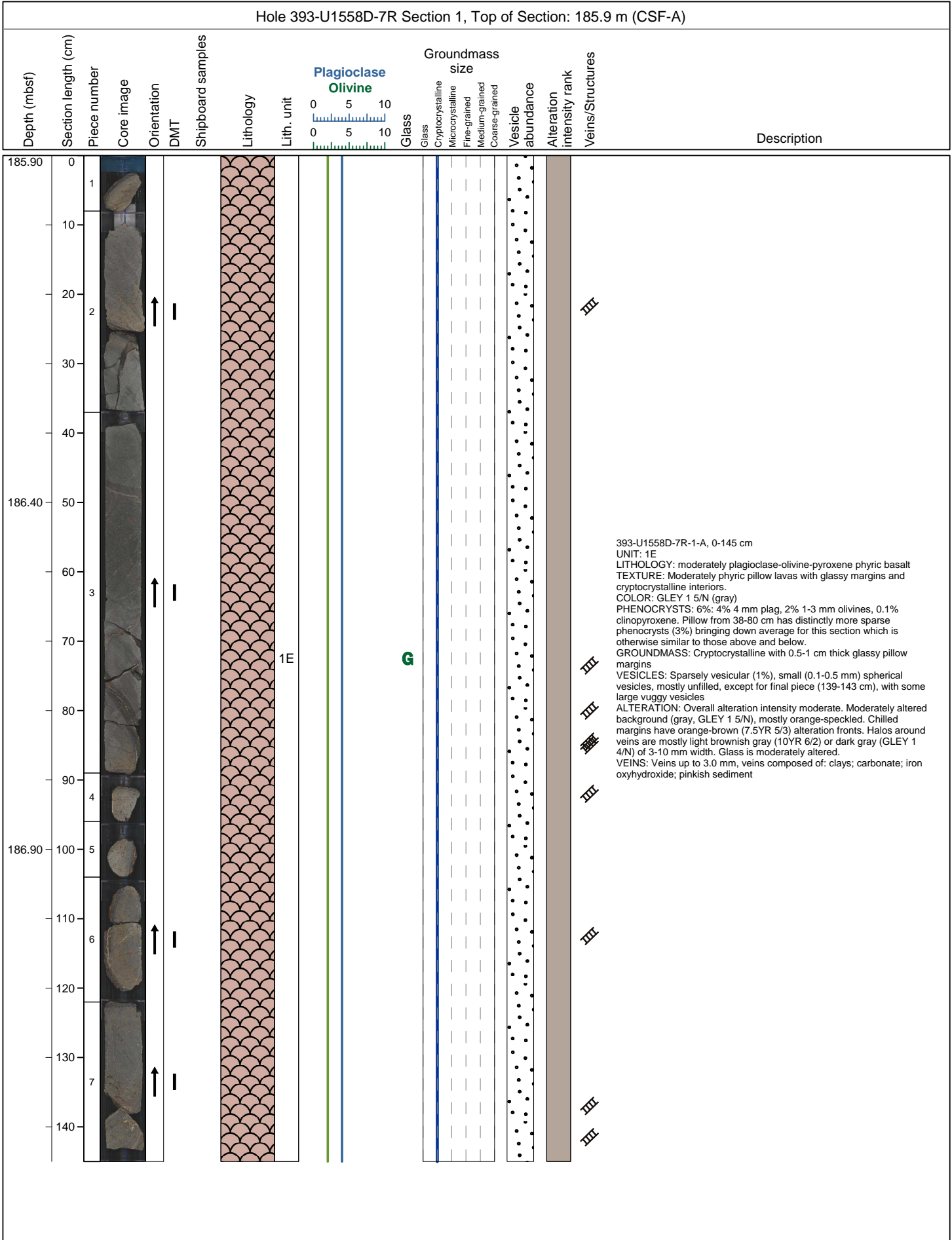


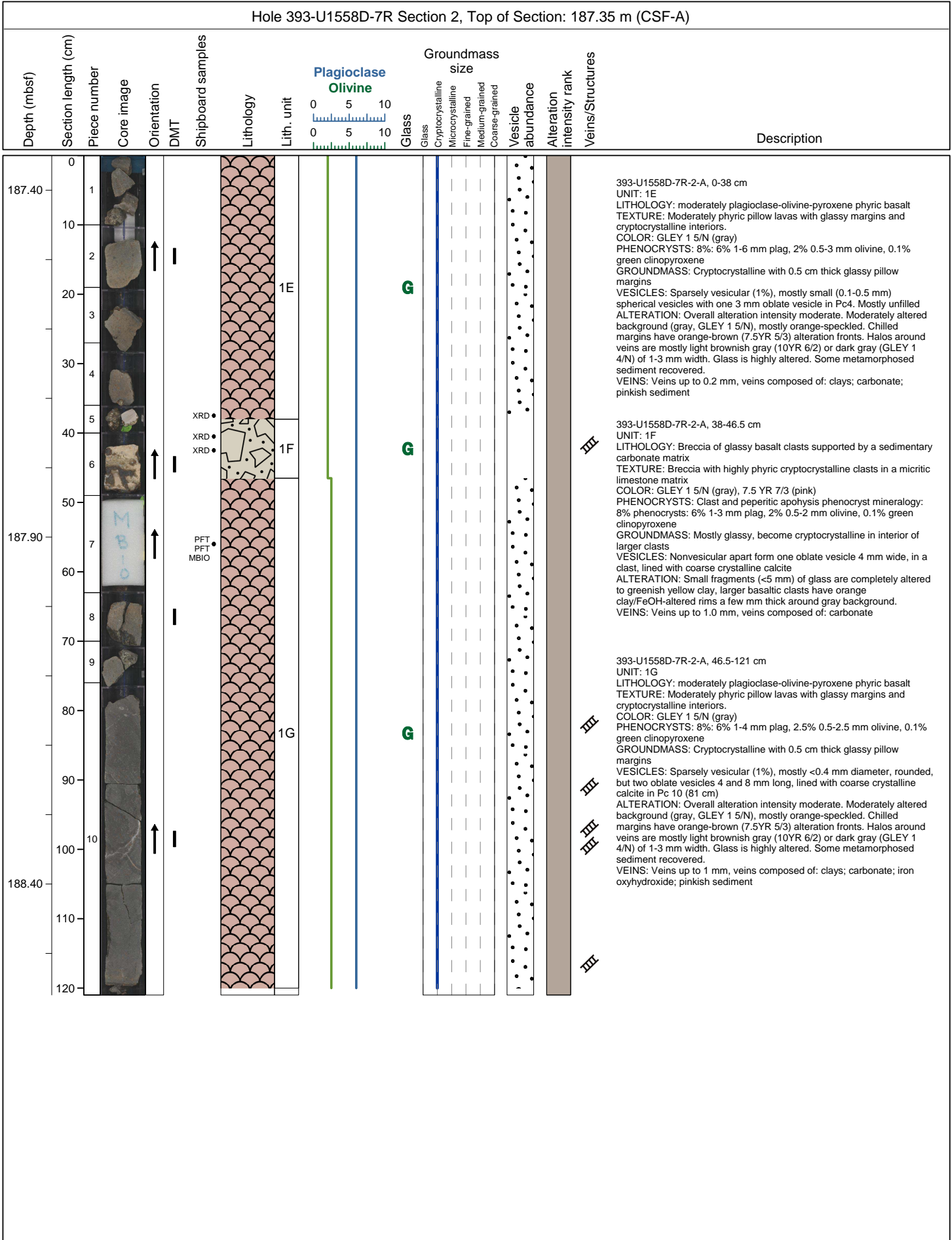


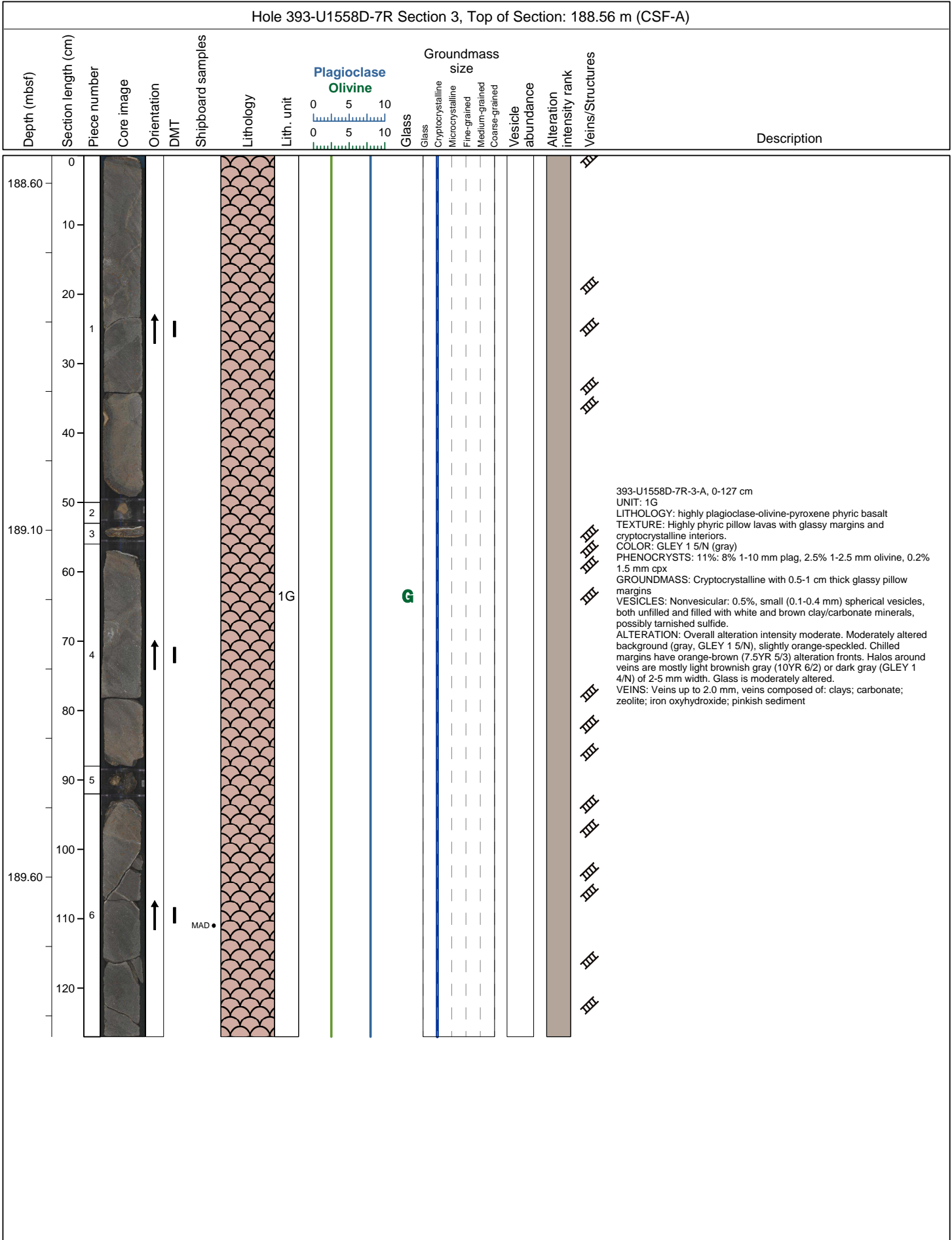




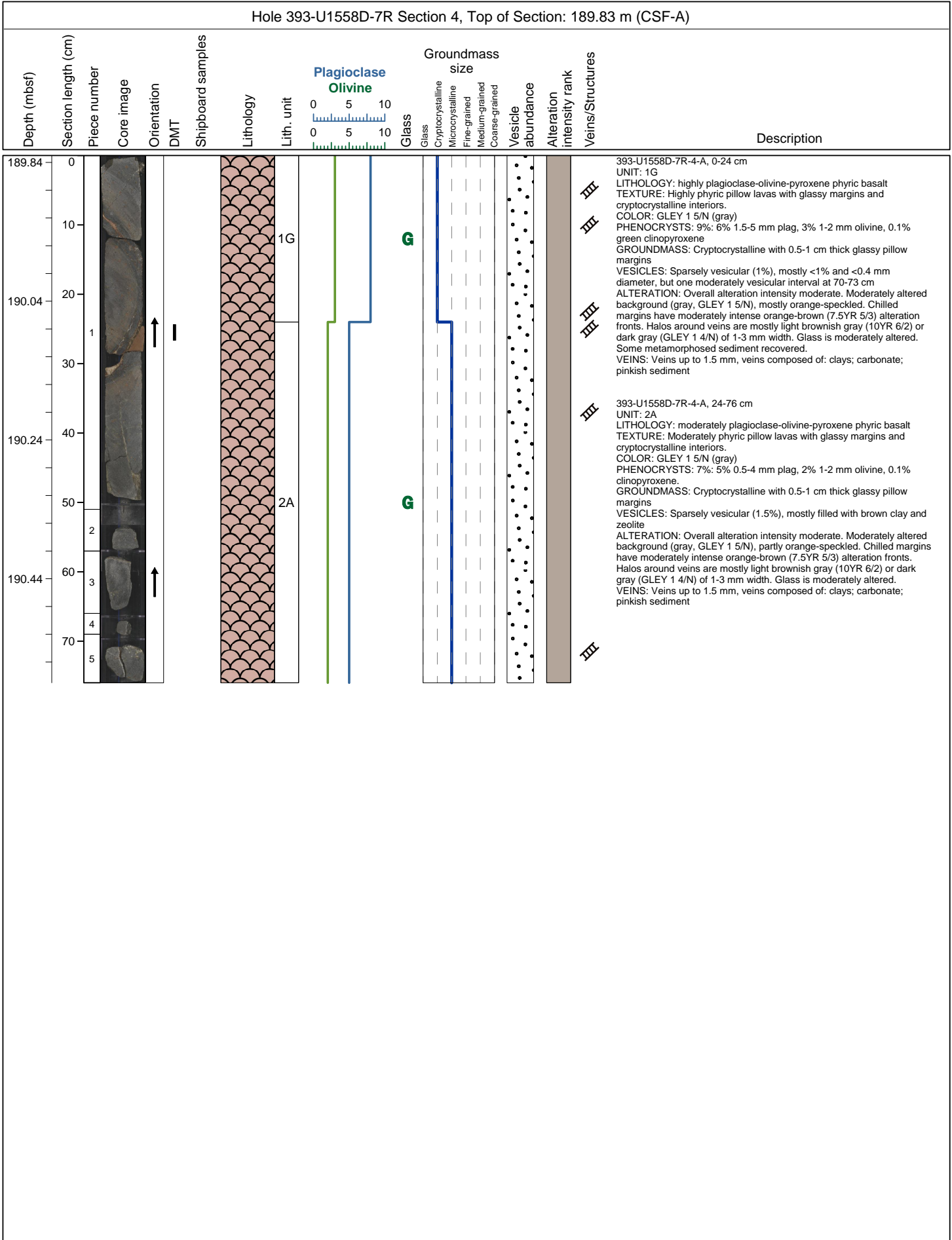
Hole 393-U1558D-6R Section 6, Top of Section: 182.93 m (CSF-A)															
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Vesicle abundance	Alteration intensity rank	Veins/Structures	Description
									0 5 10		Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained				
183.00	0														
	10														
	20	1		↑											
	30														
	40														
	50	2		↑											
183.50	60					MBIO, PFT, PFT		1E		G					<p>393-U1558D-6R-6-A, 0-116 cm                      UNIT: 1E                      LITHOLOGY: highly plagioclase-olivine-pyroxene phyric basalt                      TEXTURE: Highly phyric pillow lavas with glassy margins and cryptocrystalline interiors.                      COLOR: GLEY 1 5/N (gray)                      PHENOCRYSTS: 11%: 8% plag, 3% olivine, 0.1% clinopyroxene                      GROUNDMASS: Cryptocrystalline with 0.5-1 cm thick glassy pillow margins                      VESICLES: Nonvesicular: 0.5%, small (0.1-0.3 mm) spherical vesicles, mostly unfilled, some lined with clay, zeolite                      ALTERATION: Overall alteration intensity moderate. Moderately altered background (gray, GLEY 1 5/N), mostly orange-speckled. Orange-brown (7.5YR 5/3) alteration front without chilled margin recovered. Halos around veins are mostly light brownish gray (10YR 6/2) or dark gray (GLEY 1 4/N) of up to 4 mm width. Minor glass is highly altered.                      VEINS: Veins up to 1.5 mm, veins composed of: clays; carbonate; iron oxyhydroxide; pinkish sediment</p>
	70	3		↑		MAD									
	80	4		↑											
	90	5		↑											
	100	6		↑											
	110	7		↑											
184.00															

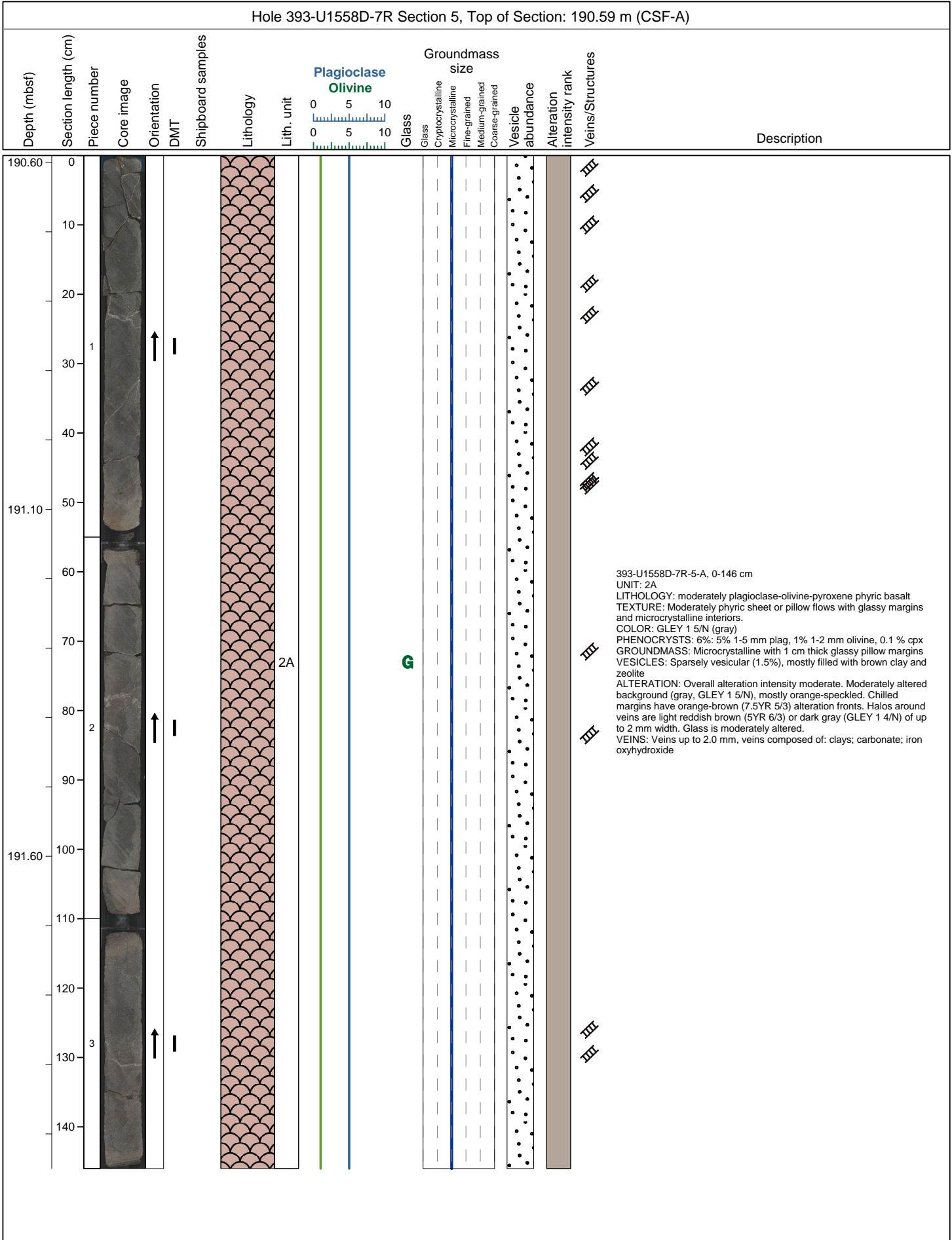


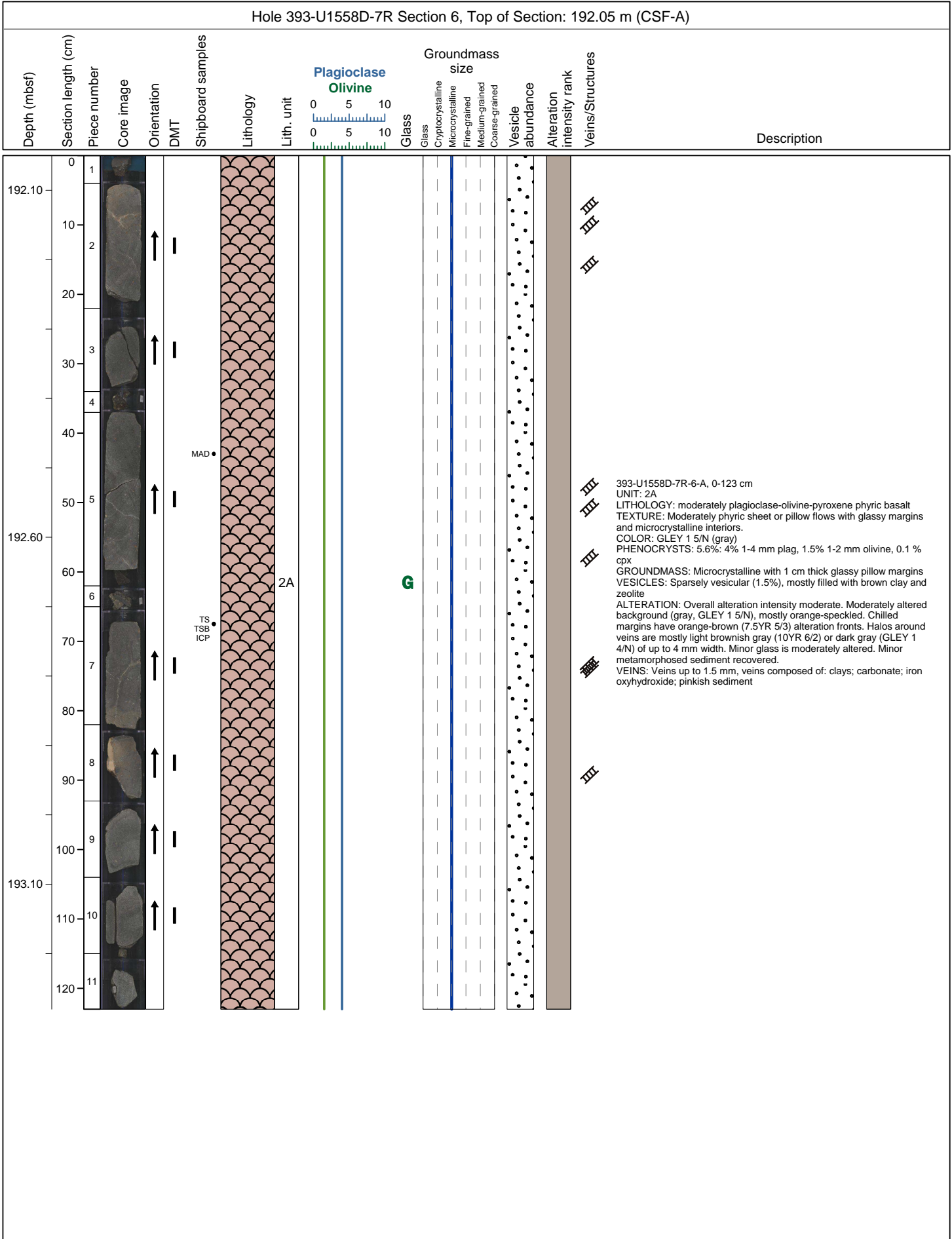


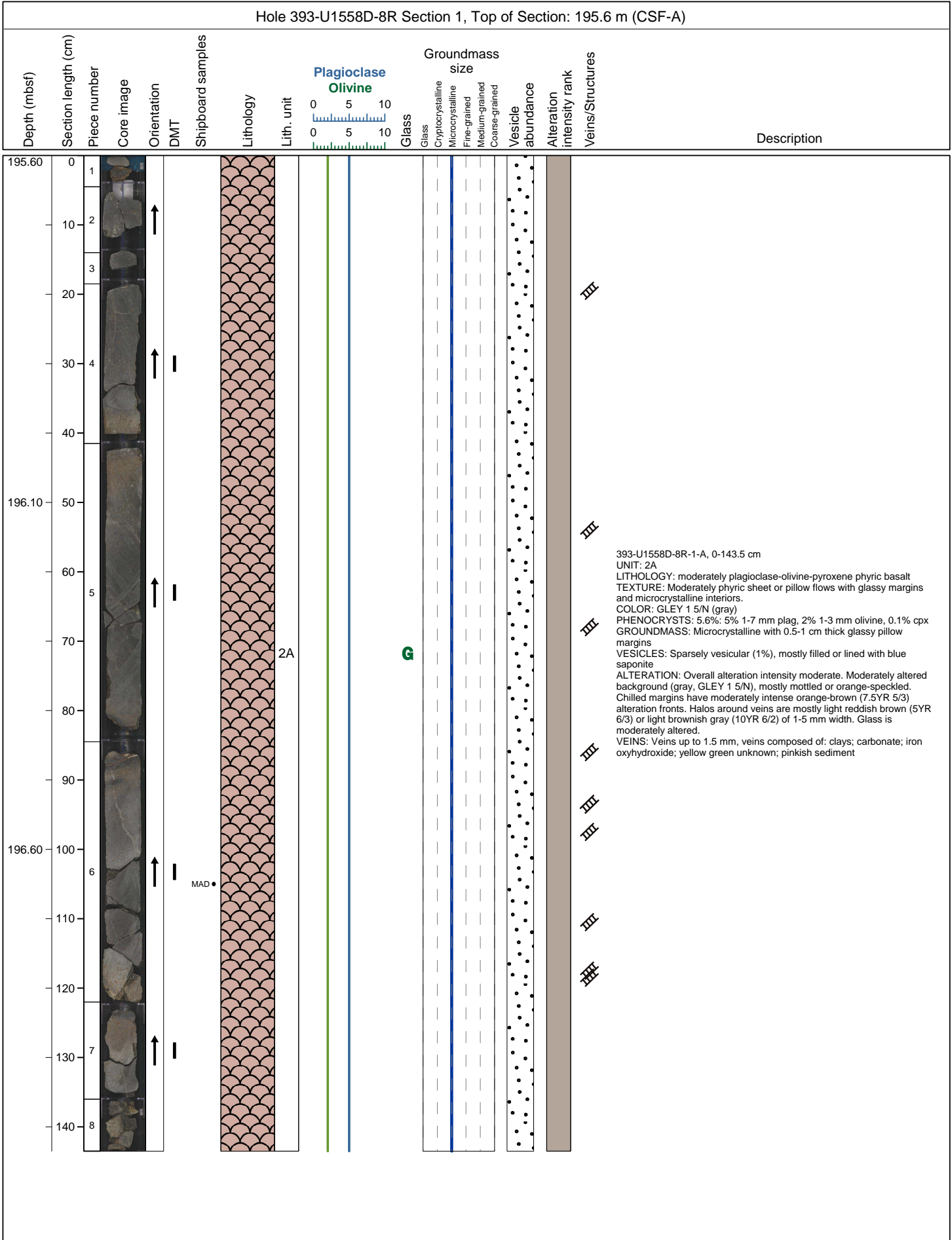


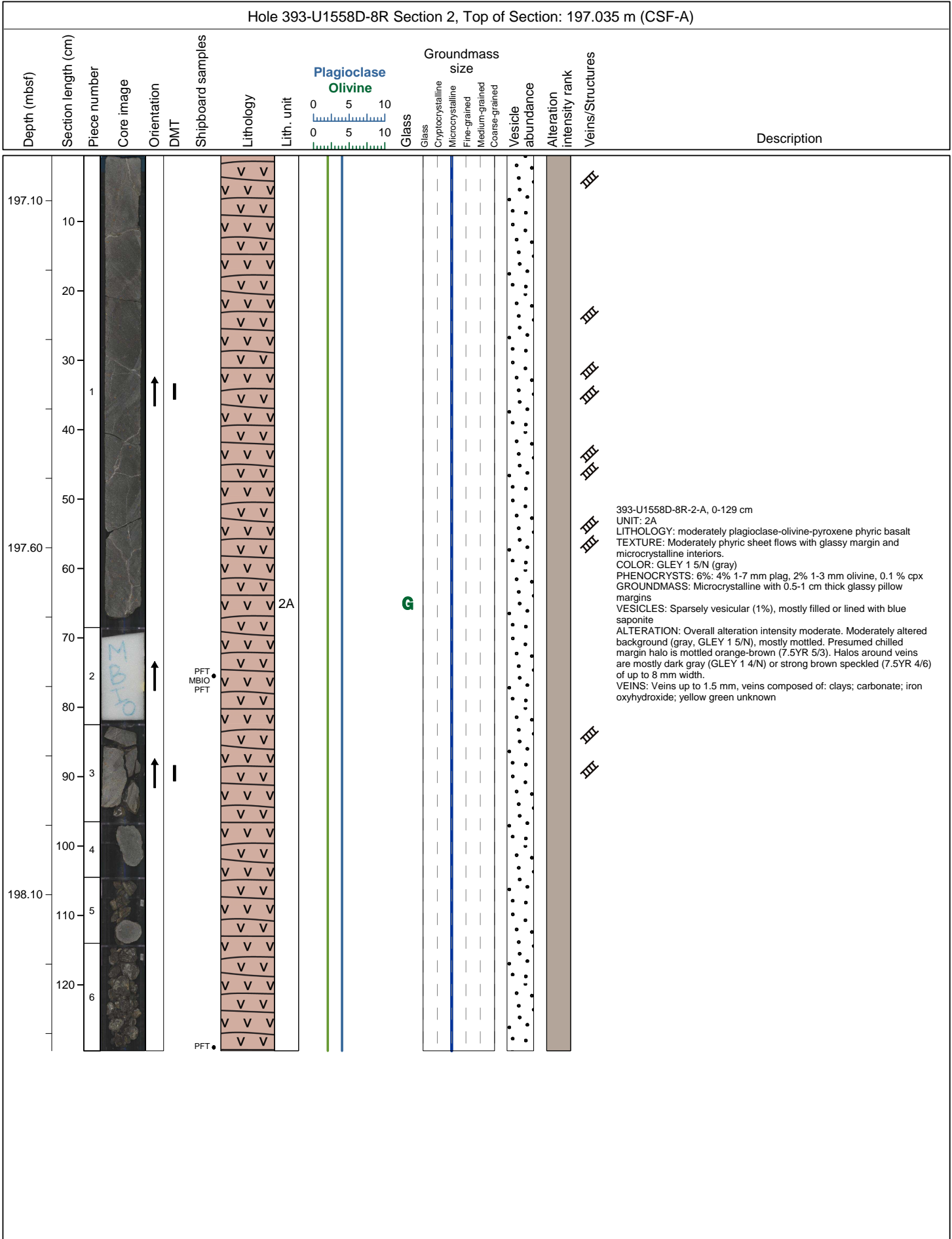


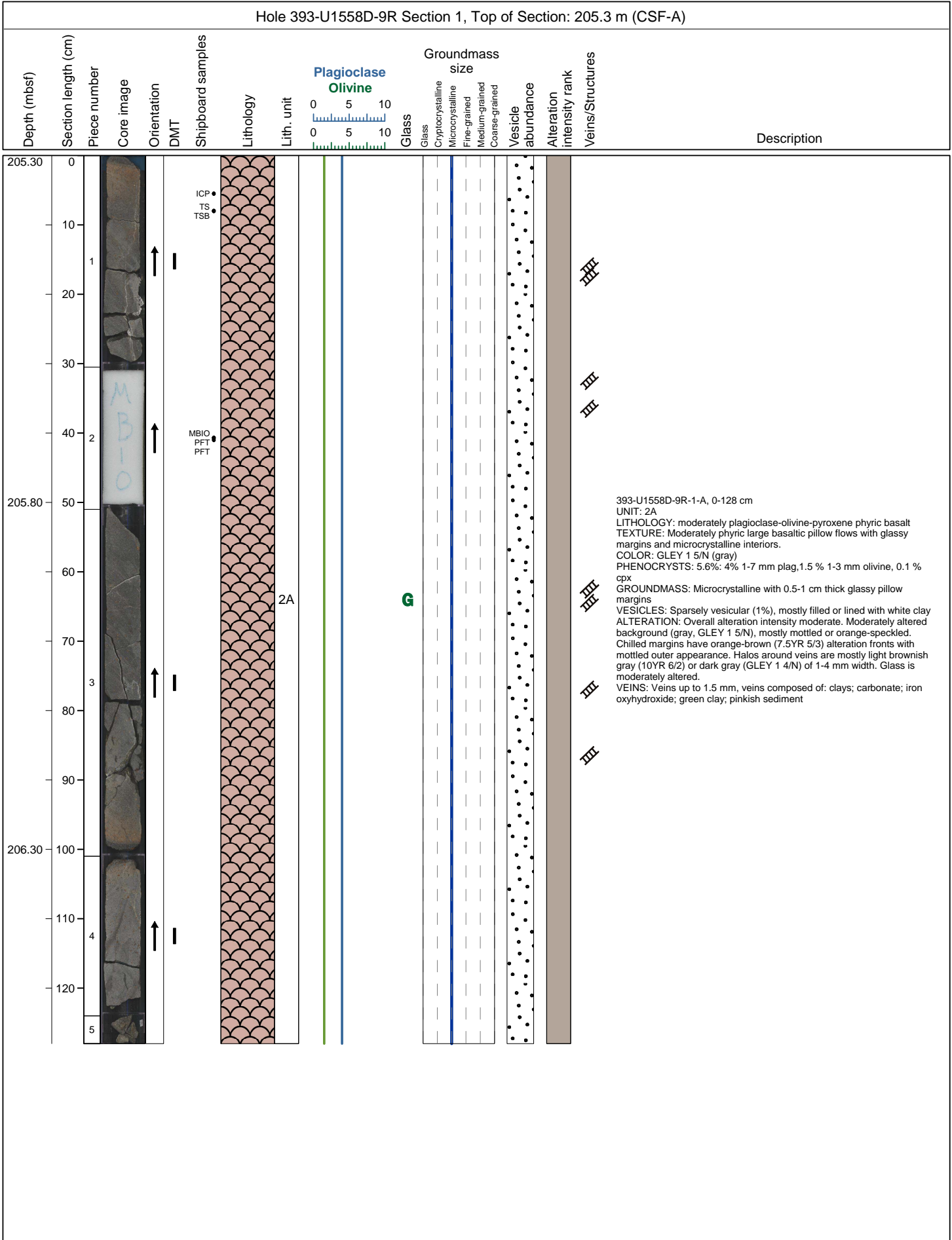


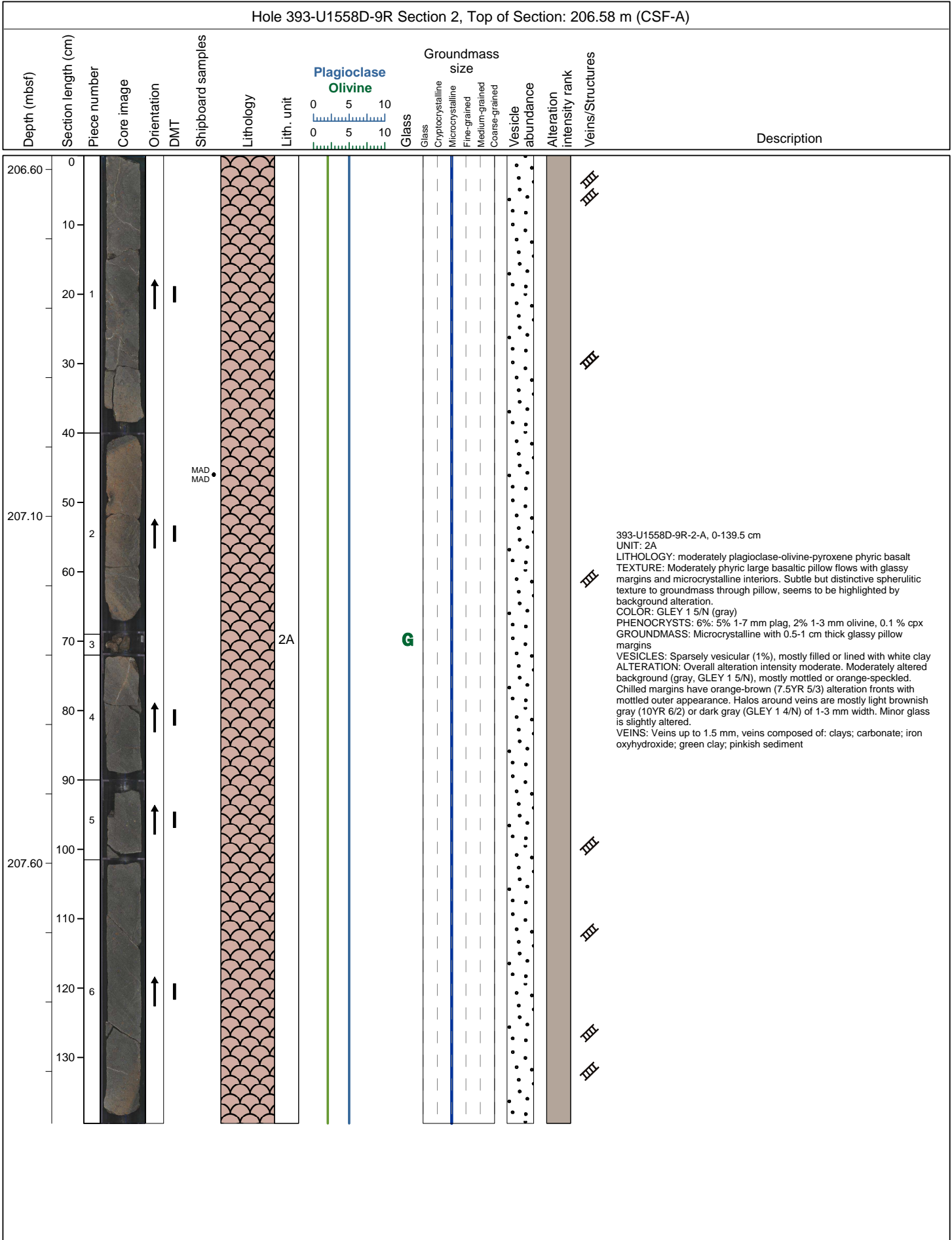


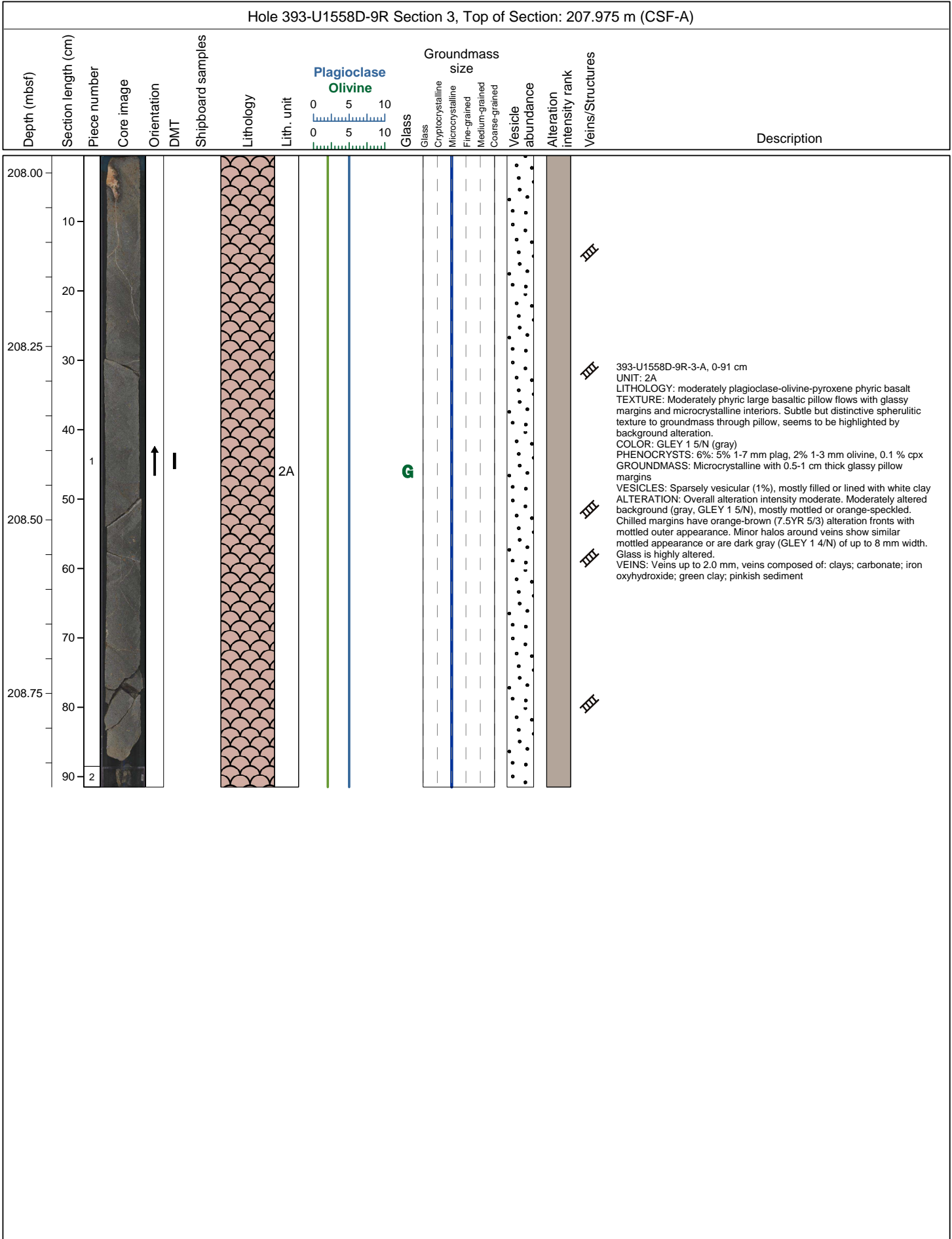




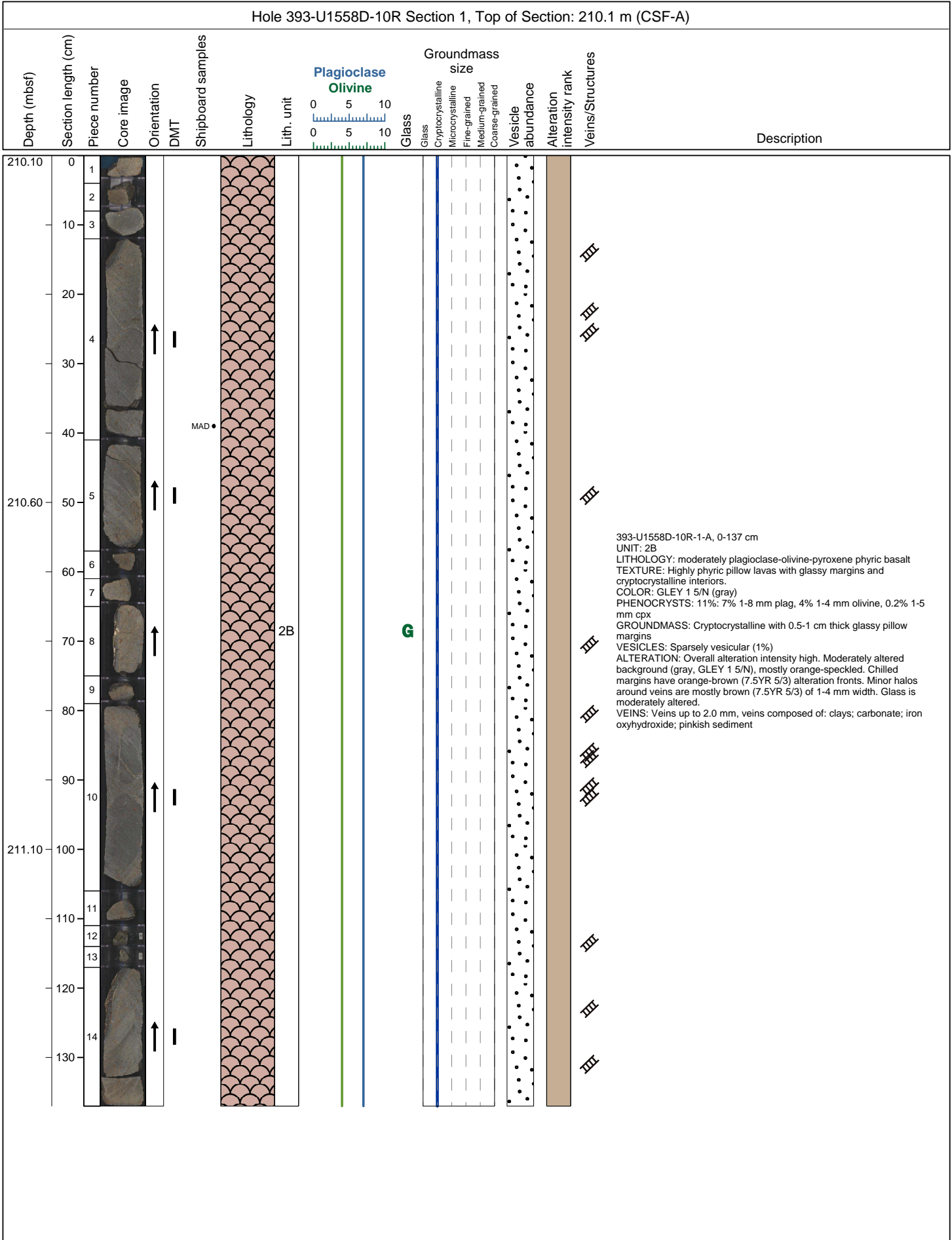


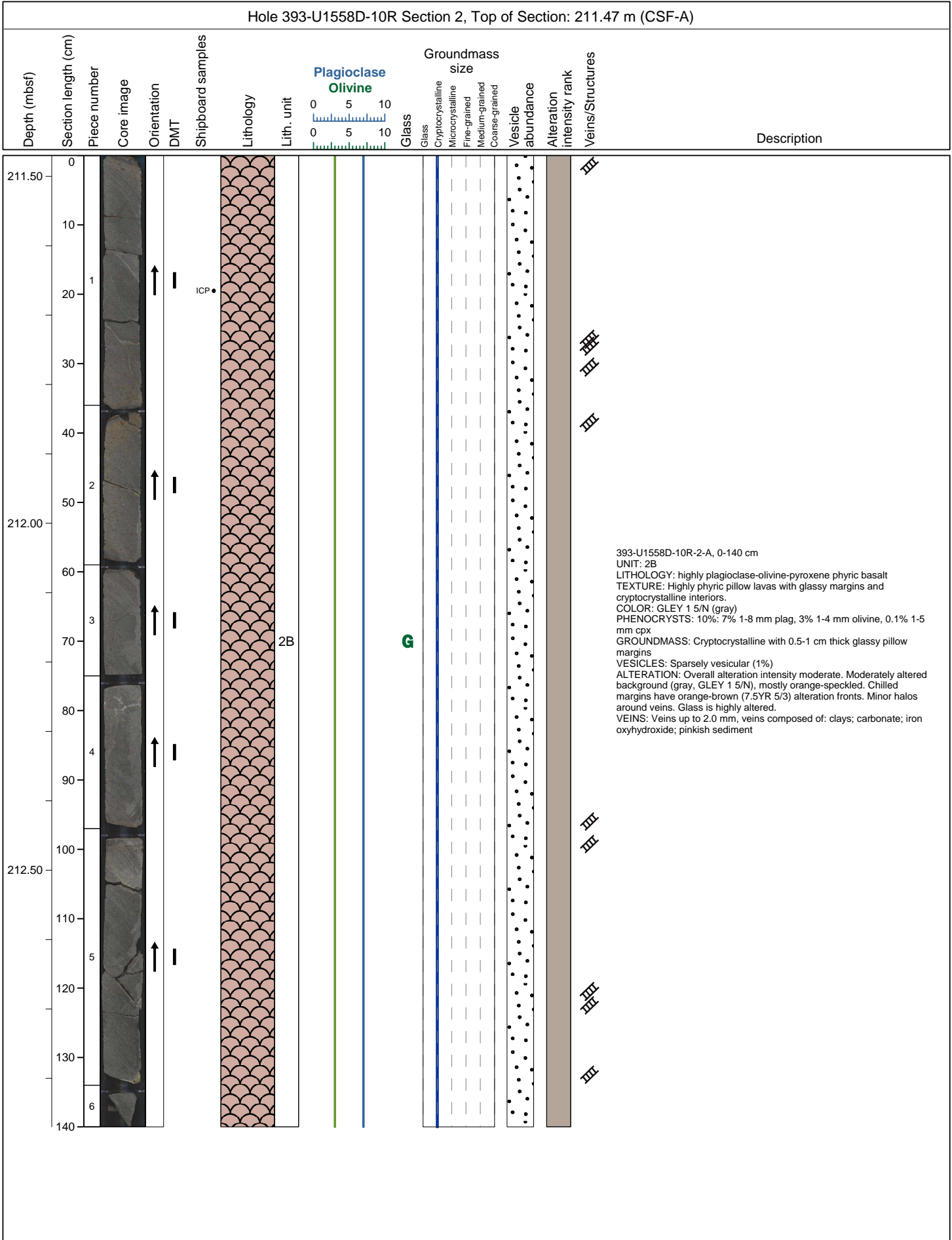


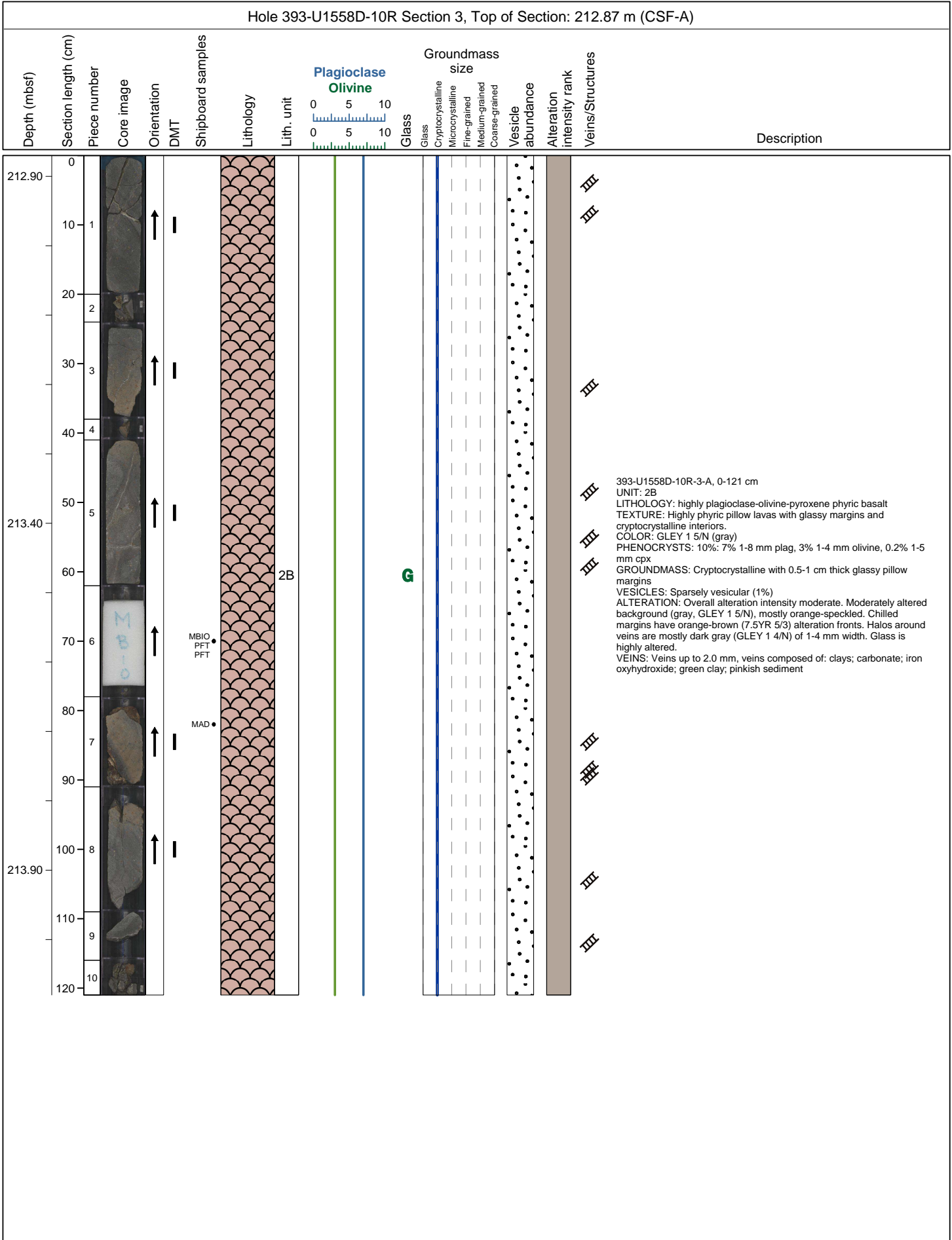




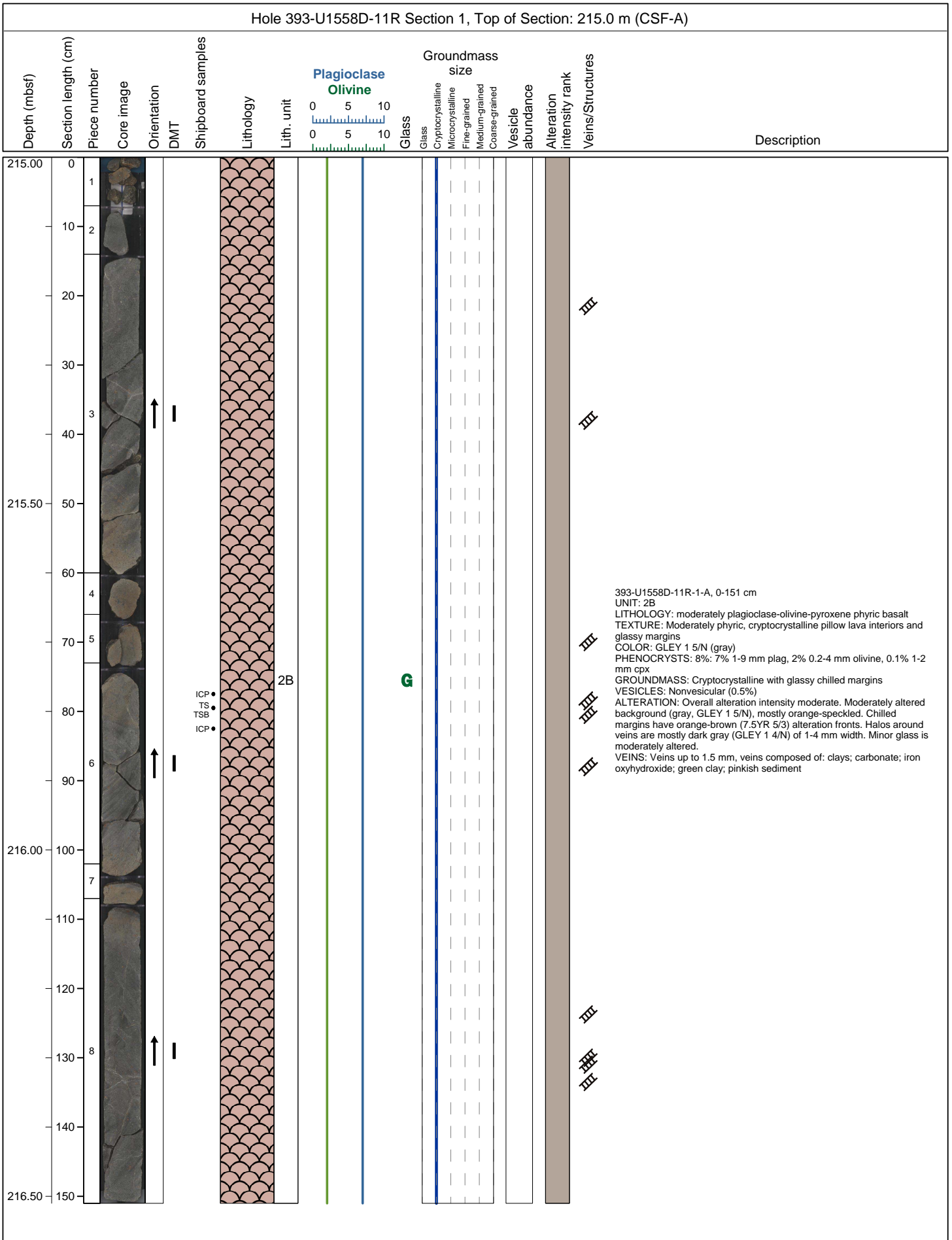








Hole 393-U1558D-10R Section 4, Top of Section: 214.08 m (CSF-A)																
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Vesicle abundance	Alteration intensity rank	Veins/Structures	Description	
214.08	0							2B							<p>393-U1558D-10R-4-A, 0-59 cm                      UNIT: 2B                      LITHOLOGY: moderately plagioclase-olivine-pyroxene phyric basalt                      TEXTURE: Moderately phyric, cryptocrystalline pillow lava interior                      COLOR: GLEY 1 5/N (gray)                      PHENOCRYSTS: 8%. 6% 1-8 mm plag, 2% 1-4 mm olivine, 0.2% 1-5 mm cpx                      GROUNDMASS: Cryptocrystalline to microcrystalline                      VESICLES: Sparsely vesicular (1.5%)                      ALTERATION: Overall alteration intensity moderate. Moderately altered background (gray, GLEY 1 5/N), mostly orange-speckled. Chilled margins have orange-brown (7.5YR 5/3) alteration fronts. Halos around veins are mostly dark gray (GLEY 1 4/N) of up to 8 mm width.                      VEINS: Veins up to 1.5 mm, veins composed of: clays; carbonate; iron oxyhydroxide; green clay</p>	
	10	1														
214.28	20															
	30	2														
	40	3														
214.48	50	4														
		5														



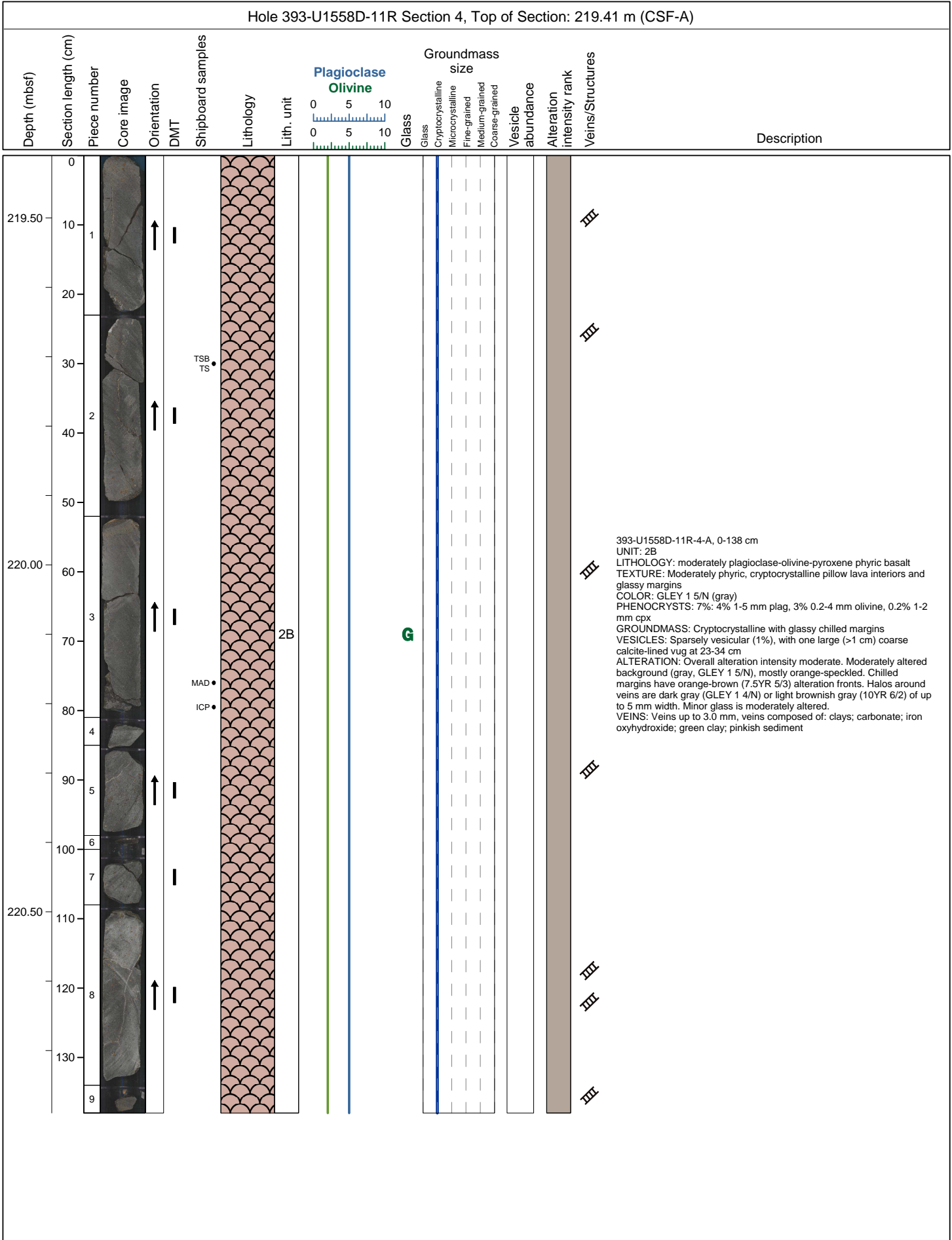
Hole 393-U1558D-11R Section 2, Top of Section: 216.51 m (CSF-A)														
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Groundmass size	Vesicle abundance	Alteration intensity rank	Veins/Structures	Description
									0 5 10 0 5 10	Glass Glass Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained				
216.60	0	1		↑										
	10													
	20	2		↑										
	30													
	40					MAD								
	50	3		↑										
	60					MBIO PFT PFT				G				393-U1558D-11R-2-A, 0-103 cm UNIT: 2B LITHOLOGY: moderately plagioclase-olivine-pyroxene phyric basalt TEXTURE: Moderately phyric, cryptocrystalline pillow lava interiors and glassy margins COLOR: GLEY 1 5/N (gray) PHENOCRYSTS: 7%: 5% 1-9 mm plag, 2% 0.2-4 mm olivine, 0.1% 1-2 mm cpx GROUNDMASS: Cryptocrystalline with glassy chilled margins VESICLES: Nonvesicular (0.5%) ALTERATION: Overall alteration intensity high. Moderately altered background (gray, GLEY 1 5/N), mostly orange-speckled. Chilled margins have orange-brown (7.5YR 5/3) alteration fronts. Minor halos around veins. Glass is highly altered. VEINS: Veins up to 2.0 mm, veins composed of: clays; carbonate; iron oxyhydroxide; green clay; pinkish sediment
217.10	60													
	70													
	80	4		↑										
	90													
	100	5		↑										
	110	6		↑										393-U1558D-11R-2-A, 103-110 cm UNIT: 2B LITHOLOGY: Calcareous interpillow sediment TEXTURE: COLOR: 7.5 YR 7/2 (pinkish gray) PHENOCRYSTS: GROUNDMASS: VESICLES: ALTERATION: VEINS: Veins up to 2.0 mm, veins composed of: clays; carbonate; iron oxyhydroxide; green clay; pinkish sediment
217.60	110													
	120	7		↑										
	130	8		↑						G				
	140	9		↑										
	150	10		↑										

Hole 393-U1558D-11R Section 3, Top of Section: 217.98 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					
218.00	0	1		↑	I											
	10															
	20	2		↑	I											
	30															
	40	3		↑	I											
	50															
218.50	50			↑	I											
	60	4		↑	I											
	70															
	80															
	90	5		↑	I											
	100															
219.00	100															
	110	6		↑	I											
	120															
	130	7		↑	I											
	140	8		↑	I											

393-U1558D-11R-3-A, 0-106 cm  
 UNIT: 2B  
 LITHOLOGY: moderately plagioclase-olivine-pyroxene phyric basalt  
 TEXTURE: Moderately phyric, cryptocrystalline pillow lava interiors and glassy margins  
 COLOR: GLEY 1 5/N (gray)  
 PHENOCRYSTS: 8%: 5% 1-5 mm plag, 3% 0.2-4 mm olivine, 0.2% 1-2 mm cpx  
 GROUNDMASS: Cryptocrystalline with glassy chilled margins  
 VESICLES: Nonvesicular (0.5%)  
 ALTERATION: Overall alteration intensity moderate. Moderately altered background (gray, GLEY 1 5/N), mostly orange-speckled. Chilled margins have orange-brown (7.5YR 5/3) alteration fronts. Minor halos around veins. Glass is moderately altered.  
 VEINS: Veins up to 2.5 mm, veins composed of: clays; carbonate; iron oxyhydroxide; green clay; pinkish sediment

393-U1558D-11R-3-A, 106-110 cm  
 UNIT: 2B  
 LITHOLOGY: Calcareous interpillow sediment and hyaloclastite  
 TEXTURE:  
 COLOR: 5YR 6/4 (light reddish brown)  
 PHENOCRYSTS:  
 GROUNDMASS:  
 VESICLES:  
 ALTERATION:  
 VEINS: Veins up to 2.5 mm, veins composed of: clays; carbonate; iron oxyhydroxide; green clay; pinkish sediment

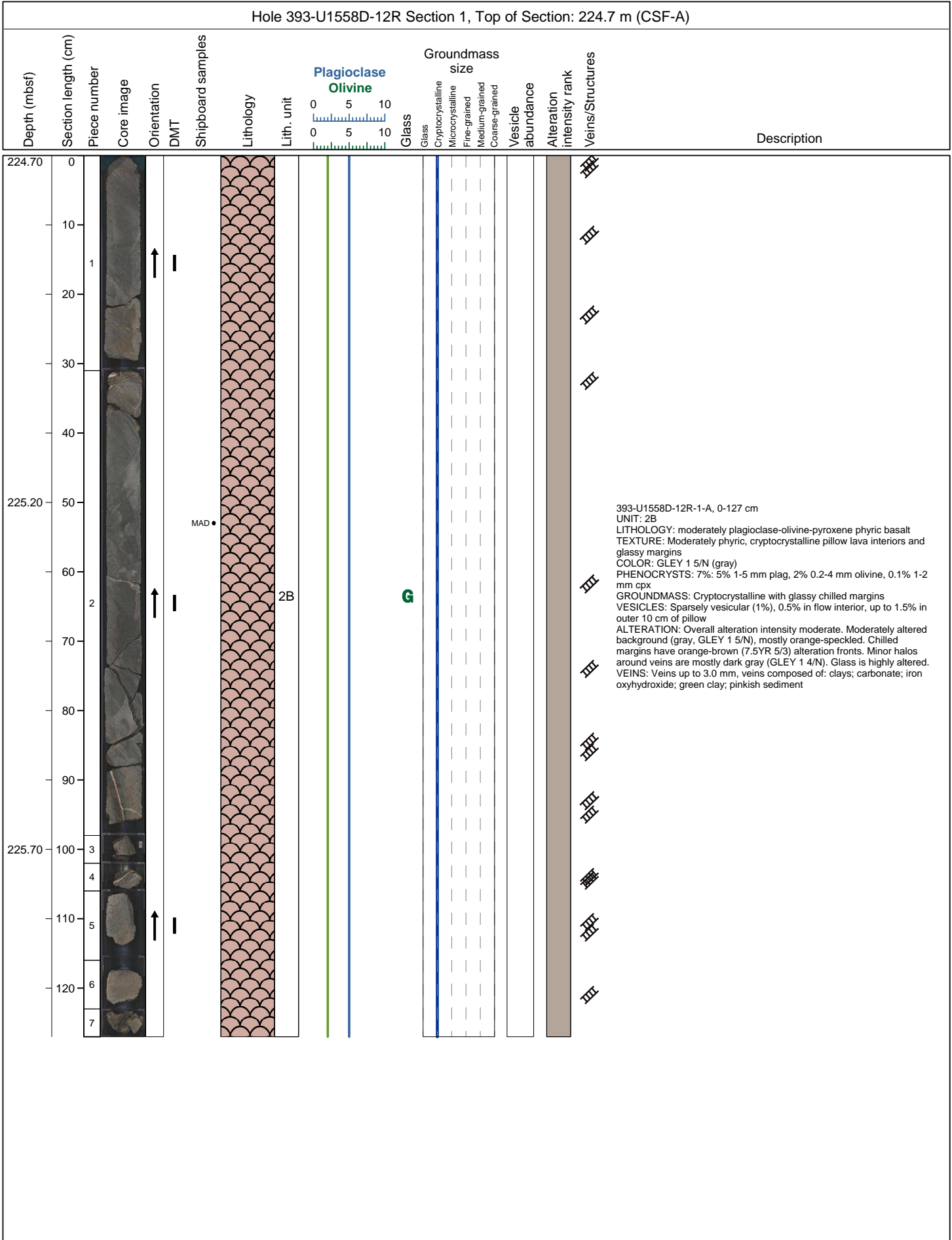
393-U1558D-11R-3-A, 110-143 cm  
 UNIT: 2B  
 LITHOLOGY: moderately plagioclase-olivine-pyroxene phyric basalt  
 TEXTURE: Moderately phyric, cryptocrystalline pillow lava interiors and glassy margins  
 COLOR: GLEY 1 5/N (gray)  
 PHENOCRYSTS: 8%: 6% 1-5 mm plag, 2% 0.2-4 mm olivine, 0.2% 1-2 mm cpx  
 GROUNDMASS: Cryptocrystalline with glassy chilled margins  
 VESICLES: Nonvesicular (0.5%)  
 ALTERATION: Overall alteration intensity moderate. Moderately altered background (gray, GLEY 1 5/N), mostly orange-speckled. Chilled margins have orange-brown (7.5YR 5/3) alteration fronts. Minor halos around veins. Glass is moderately altered.  
 VEINS: Veins up to 2.5 mm, veins composed of: clays; carbonate; iron oxyhydroxide; green clay; pinkish sediment

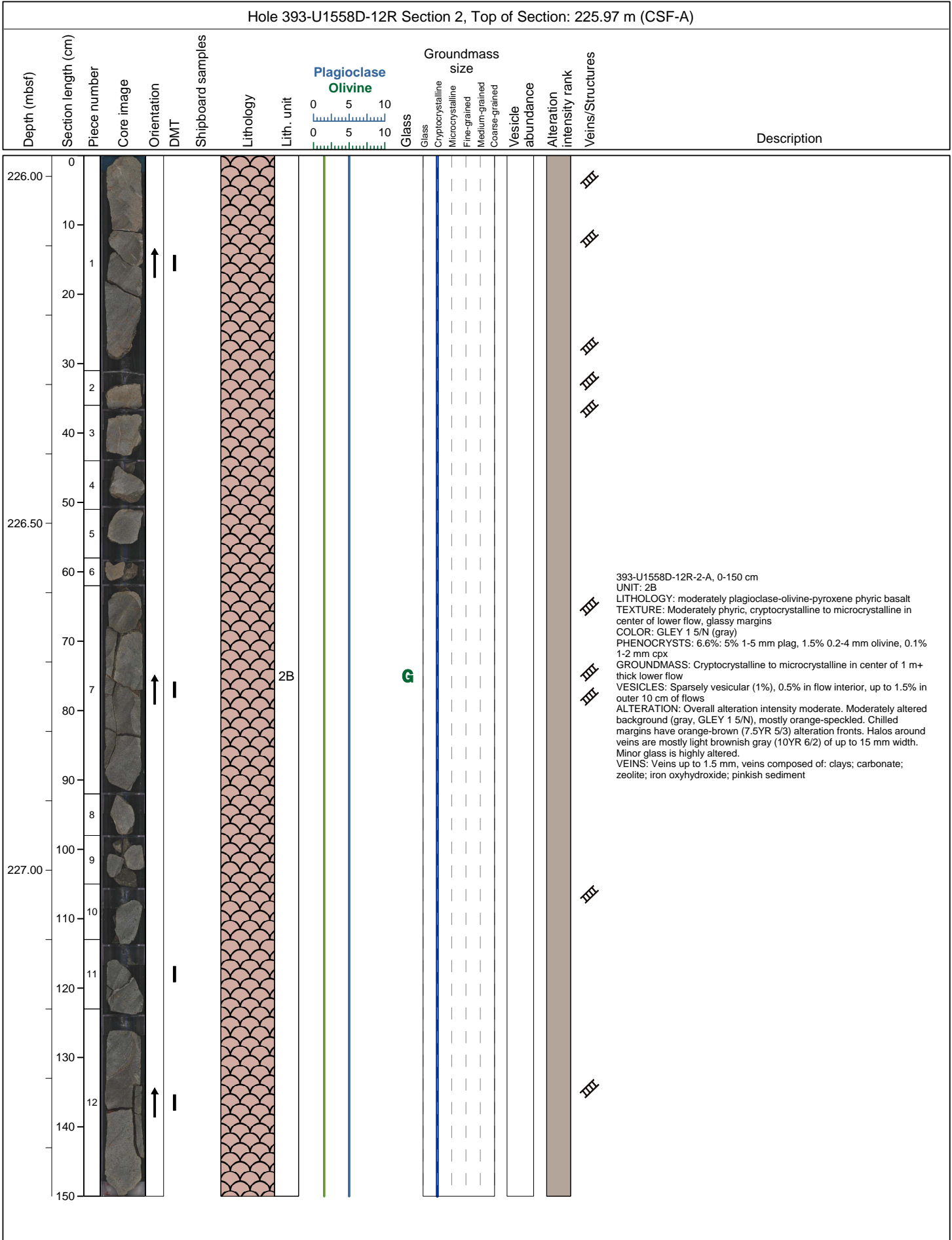


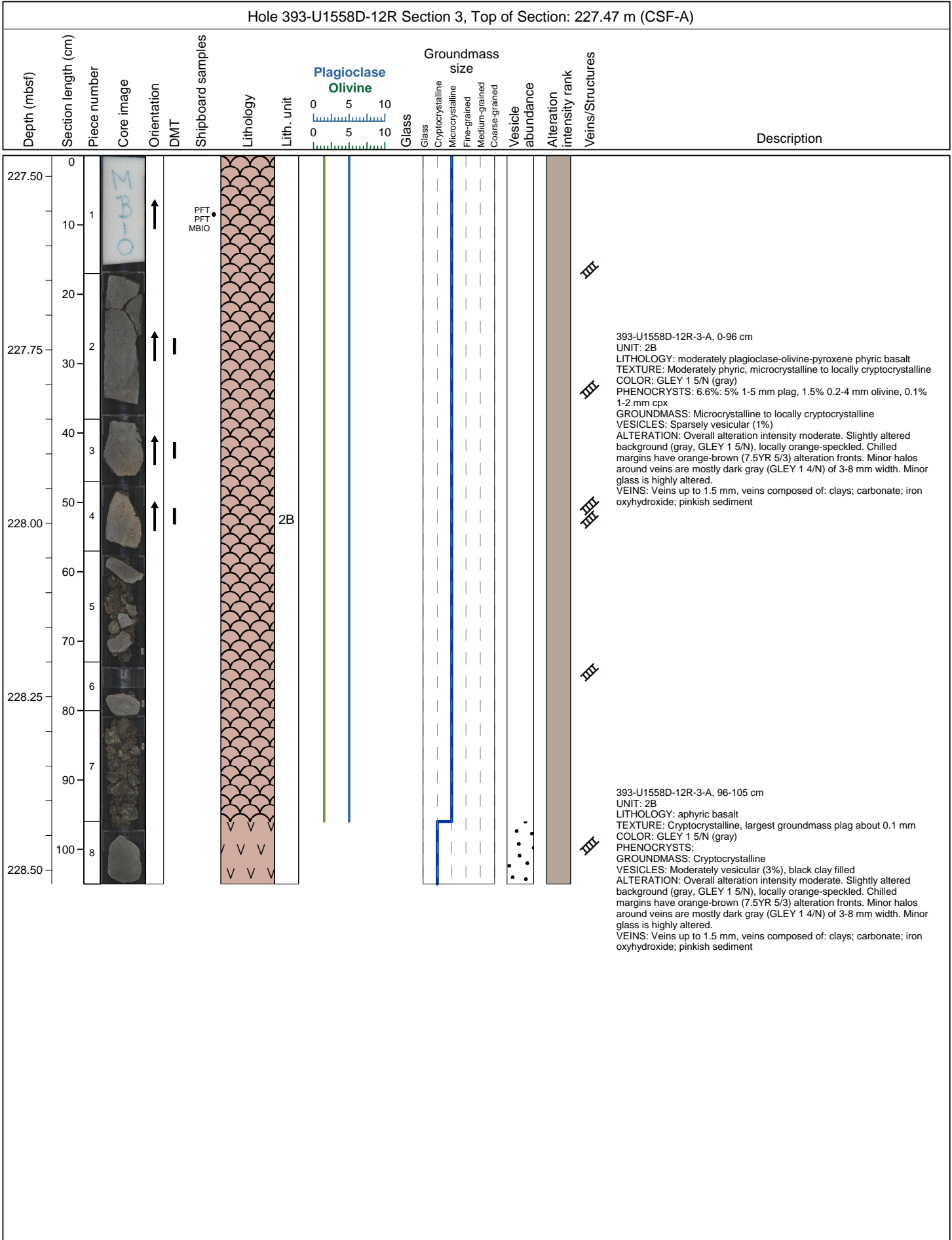


Hole 393-U1558D-11R Section 5, Top of Section: 220.79 m (CSF-A)																
Depth (mbstf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Vesicle abundance	Alteration intensity rank	Veins/Structures	Description	
									0 5 10		Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained					
220.80	0			↑												
	10	1		↑												
221.05	30			↑												
	40	2		↑												
221.30	50			↑												
	60	3		↑												
	70	4		↑		XRD										
	80	5		↑												
221.55	90	6		↑												
																<p>393-U1558D-11R-5-A, 0-94 cm                      UNIT: 2B                      LITHOLOGY: moderately plagioclase-olivine-pyroxene phyric basalt                      TEXTURE: Moderately phyric, cryptocrystalline pillow lava interiors and glassy margins                      COLOR: GLEY 1 5/N (gray)                      PHENOCRYSTS: 9%: 6% 1-5 mm plag, 3% 0.2-4 mm olivine, 0.2% 1-2 mm cpx                      GROUNDMASS: Cryptocrystalline with glassy chilled margins                      VESICLES: Sparsely vesicular (1%), 0.5% in flow interior, up to 1.5% in outer 10 cm of pillows                      ALTERATION: Overall alteration intensity moderate. Moderately altered background (gray, GLEY 1 5/N), mostly orange-speckled. Chilled margins have orange-brown (7.5YR 5/3) alteration fronts. Halos around veins are mostly dark gray (GLEY 1 4/N) of 1-4 mm width. Glass is moderately altered.                      VEINS: Veins up to 1.5 mm, veins composed of: clays; carbonate; iron oxyhydroxide; green clay; pinkish sediment</p>

Hole 393-U1558D-11R Section 6, Top of Section: 221.73 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				
221.76	0	1		↑										<p>393-U1558D-11R-6-A, 0-58 cm                      UNIT: 2B                      LITHOLOGY: moderately plagioclase-olivine-pyroxene phyric basalt                      TEXTURE: Moderately phyric, cryptocrystalline pillow lava interiors and glassy margins                      COLOR: GLEY 1 5/N (gray)                      PHENOCRYSTS: 7%: 5% 1-5 mm plag, 2% 0.2-4 mm olivine, 0.1% 1-2 mm cpx                      GROUNDMASS: Cryptocrystalline with glassy chilled margins                      VESICLES: Sparsely vesicular (1%), 0.5% in flow interior, up to 1.5% in outer 10 cm of pillow                      ALTERATION: Overall alteration intensity moderate. Moderately altered background (gray, GLEY 1 5/N), mostly orange-speckled. Chilled margins have orange-brown (7.5YR 5/3) alteration fronts. Halos around veins are dark gray (GLEY 1 4/N) or light brownish gray (10YR 6/2) of up to 7 mm width. Minor glass is highly altered.                      VEINS: Veins up to 2.0 mm, veins composed of: clays; carbonate; iron oxyhydroxide; green clay; pinkish sediment</p>
	10	2		↑										
	20	3		↑										
221.96	30	4		↑										
	40	5		↑										
	50	6		↑										
222.16		7		↑										







Hole 393-U1558D-13R Section 1, Top of Section: 234.4 m (CSF-A)																		
Depth (mbstf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase		Olivine		Groundmass size	Glass	Vesicle abundance	Alteration intensity rank	Veins/Structures	Description
									0	5	10	0						
234.40	0	1		↑			2B											393-U1558D-13R-1-A, 0-24 cm UNIT: 2B LITHOLOGY: moderately plagioclase-olivine-pyroxene phyric basalt TEXTURE: Moderately phyric, cryptocrystalline COLOR: GLEY 1 5/N (gray) PHENOCRYSTS: 6.6%: 5% 1-5 mm plag, 1.5% 0.2-4 mm olivine, 0.1% 1-2 mm cpx GROUNDMASS: Cryptocrystalline VESICLES: Sparsely vesicular (1%) ALTERATION: Overall alteration intensity moderate. Slightly altered background (gray, GLEY 1 5/N). Chilled margins have orange-brown (7.5YR 5/3) alteration fronts. Halos around veins are mostly light brownish gray (10YR 6/2) of 2-4 mm width. VEINS: Veins up to 0.2 mm, veins composed of: clays; carbonate; iron oxyhydroxide
234.90	50	5		↑			3											393-U1558D-13R-1-A, 24-97 cm UNIT: 3 LITHOLOGY: Volcaniclastic breccia with limestone matrix TEXTURE: Brecciated COLOR: 2.5Y 7/1 (light reddish gray, 7.5YR 5/2 (brown) PHENOCRYSTS: GROUNDMASS: VESICLES: ALTERATION: Basaltic clasts with light reddish gray to brown alteration halos. Glass fragments altered to dark orange to pale olive green clays. VEINS: Veins up to 3.0 mm, veins composed of: clays; carbonate; pinkish sediment
235.40	100	9		↑			4A											393-U1558D-13R-1-A, 97-150 cm UNIT: 4A LITHOLOGY: sparsely olivine-plagioclase phyric basalt TEXTURE: Sparsely phyric, cryptocrystalline pillow lava interiors and glassy margins COLOR: 7.5YR 5/2 (brown) PHENOCRYSTS: 1%. 0.5% 0.5-1.5 mm plagioclase, 0.5% 0.5-1 mm olivine. Cpx apparently absent. GROUNDMASS: Cryptocrystalline with glassy chilled margins VESICLES: Nonvesicular (0.5%) ALTERATION: Overall alteration intensity moderate. Moderately altered background (brown, 7.5YR 5/2). Chilled margins have brown (7.5YR 5/3) alteration fronts. Halos around veins are mostly light brownish gray (10YR 6/2); less common are dark gray (GLEY 1 4/N) halos. Glass is moderately altered. VEINS: Veins up to 1.5 mm, veins composed of: clays; carbonate; Mn oxides; pinkish sediment
235.90	150	13		↑														

Hole 393-U1558D-13R Section 2, Top of Section: 235.9 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	Glass	Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained							
235.90	0	1		↑				4A								<p>393-U1558D-13R-2-A, 0-133 cm                      UNIT: 4A                      LITHOLOGY: sparsely olivine-plagioclase phyric basalt and interpillow sediment                      TEXTURE: Sparsely phyric, cryptocrystalline pillow lava interiors and glassy margins. Clay alteration develops a pervasive mottled texture in center of flow, possibly reflecting a primary spherulitic texture.                      COLOR: 7.5YR 5/2 (brown)                      PHENOCRYSTS: 3%: 1.5% 0.5-1.5 mm plagioclase, 1.5% 0.5-1 mm olivine.                      GROUNDMASS: Cryptocrystalline with glassy chilled margins                      VESICLES: Nonvesicular (0.5%)                      ALTERATION: Overall alteration intensity high. Minor moderately altered background (brown, 7.5YR 5/2), with patchy appearance. Chilled margins have orange-brown (7.5YR 5/3) to brown (7.5YR 5/3) alteration fronts. Abundant halos around veins are mostly light brownish gray (10YR 6/2) of 1-3 mm width; less common are dark gray (GLE 1 4/N) halos. Glass is moderately altered.                      VEINS: Veins up to 1.5 mm, veins composed of: clays; carbonate; iron oxyhydroxide; pinkish sediment</p>		
	10	2		↑														
	20	3		↑														
	30	4		↑														
	40	5		↑														
236.40	50	6		↑														
	60	7		↑														
	70	8		↑														
	80	8		↑		MAD												
	90																	
236.90	100	9		↑														
	110	10		↑														
	120																	
	130	11		↑		MBIO, PFT, PFT												

Hole 393-U1558D-13R Section 3, Top of Section: 237.23 m (CSF-A)														
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Groundmass size	Vein abundance	Alteration intensity rank	Veins/Structures	Description
									0 5 10 0 5 10	Glass Glass Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained				
237.24	0			↑				4A		G				
237.44	20	2		↑									III	393-U1558D-13R-3-A, 0-70 cm UNIT: 4A LITHOLOGY: sparsely olivine-plagioclase phryic basalt TEXTURE: Sparsely phryic, cryptocrystalline pillow lava interiors and glassy margins. Clay alteration develops a pervasive mottled texture in center of flow, possibly reflecting a primary spherulitic texture. COLOR: GLEY 1 5/N (gray) PHENOCRYSTS: 2.5%: 1% 0.5-1.5 mm plagioclase, 1.5% 0.5-1 mm olivine. GROUNDMASS: Cryptocrystalline with glassy chilled margins VESICLES: Nonvesicular (0.5%) ALTERATION: Overall alteration intensity moderate. Moderately altered background (gray, GLEY 1 5/N), locally mottled. Chilled margins have orange-brown (7.5YR 5/3) to brown (7.5YR 5/3) alteration fronts. Abundant vein are mostly light brownish gray (10YR 6/2) of up to 13 mm width; less common are dark gray (GLEY 1 4/N) halos. Glass is moderately altered. VEINS: Veins up to 1 mm, veins composed of: clays; carbonate; Mn oxides; pinkish sediment
237.64	40	3											III	
237.84	60	7		↑									III	



Hole 393-U1558D-14R Section 1, Top of Section: 239.3 m (CSF-A)															
Depth (mbstf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase		Olivine		Groundmass size	Veins/Structures	Description
									0	5	10	0			
								Glass	Cryptocrystalline	Microcrystalline	Fine-grained	Medium-grained	Coarse-grained	Vesicle abundance	Alteration intensity rank
239.30	0	1													393-U1558D-14R-1-A, 0-17.5 cm UNIT: 4A LITHOLOGY: Interpillow breccia TEXTURE: Clasts are sparsely phyrlic, cryptocrystalline pillow lava interiors and glassy margins. COLOR: 7.5YR 5/2 (brown) PHENOCRYSTS: 2.5%: 1% 0.5-1.5 mm plagioclase, 1.5% 0.5-1 mm olivine. GROUNDMASS: Cryptocrystalline with glassy chilled margins VESICLES: Nonvesicular (0.5%) ALTERATION: Basaltic clasts with brown alteration halos. Glass fragments variably altered to dark orange clays. VEINS: Veins up to 2.5 mm, veins composed of: clays; carbonate; pinkish sediment
	10	2													
	20														
	30	3				MAD									393-U1558D-14R-1-A, 17.5-42 cm UNIT: 4A LITHOLOGY: sparsely plagioclase-olivine-phyric basalt TEXTURE: Sparsely phyrlic, cryptocrystalline pillow lava interiors and glassy margins. COLOR: GLEY 1 5/N (gray) PHENOCRYSTS: 2.5%: 1% 0.5-1.5 mm plagioclase, 1.5% 0.5-1 mm olivine. GROUNDMASS: Cryptocrystalline with glassy chilled margins VESICLES: Nonvesicular (0.5%) ALTERATION: Overall alteration intensity high. Minor moderately altered background (gray, GLEY 1 5/N). Chilled margins have orange-brown (7.5YR 5/3) alteration fronts. Abundant halos around veins are mostly brown (7.5YR 5/2) of 2-3 mm width. Minor glass is highly altered. VEINS: Veins up to 2.5 mm, veins composed of: clays; carbonate; pinkish sediment
	40	4				ICP									
239.80	50														
	60	5													
	70														
	80	6													393-U1558D-14R-1-A, 42-112 cm UNIT: 4A LITHOLOGY: Interpillow breccia TEXTURE: Clasts are sparsely phyrlic, cryptocrystalline pillow lava interiors and glassy margins. COLOR: GLEY 1 5/N (gray) PHENOCRYSTS: 2.5%: 1% 0.5-1.5 mm plagioclase, 1.5% 0.5-1 mm olivine. GROUNDMASS: Cryptocrystalline with glassy chilled margins VESICLES: Nonvesicular (0.5%) ALTERATION: Pillow basalts show GLEY 1 5/N background with dark gray halos overprinted by orange halos extending from chilled margins. Glass fragments show variable alteration, larger fragments altered along edges to reddish brown clays. VEINS: Veins up to 2.5 mm, veins composed of: clays; carbonate; pinkish sediment
	90	7													
	100	8													
240.30	110														
	120	9													393-U1558D-14R-1-A, 112-129 cm UNIT: 4A LITHOLOGY: sparsely plagioclase-olivine-phyric basalt TEXTURE: Sparsely phyrlic, cryptocrystalline pillow lava interiors and glassy margins. COLOR: 7.5YR 5/2 (brown) PHENOCRYSTS: 2.5%: 1% 0.5-1.5 mm plagioclase, 1.5% 0.5-1 mm olivine. GROUNDMASS: Cryptocrystalline with glassy chilled margins VESICLES: Nonvesicular (0.5%) ALTERATION: Overall alteration intensity moderate. Moderately altered background (brown, 7.5YR 5/2), mostly orange-speckled. Chilled margins have orange-brown (7.5YR 5/3) alteration fronts. Halos around veins are dark gray (GLEY 1 4/N) or brown (7.5YR 5/2) of 2-3 mm width. VEINS: Veins up to 2.5 mm, veins composed of: clays; carbonate; pinkish sediment

Hole 393-U1558D-14R Section 2, Top of Section: 240.59 m (CSF-A)														
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Alteration intensity rank	Veins/Structures	Description
									0 5 10 0 5 10	Glass Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained				
240.60	0			↑	I					G			III	<p>393-U1558D-14R-2-A, 0-34 cm UNIT: 4A LITHOLOGY: sparsely plagioclase-olivine-phyric basalt TEXTURE: Sparsely phyric, cryptocrystalline pillow lava interiors and glassy margins. COLOR: GLEY 1 5/N (gray) PHENOCRYSTS: 2.5%: 1% 0.5-1.5 mm plagioclase, 1.5% 0.5-1 mm olivine. GROUNDMASS: Cryptocrystalline with glassy chilled margins VESICLES: Nonvesicular (0.5%) ALTERATION: Overall alteration intensity moderate. Moderately altered background (gray, GLEY 1 5/N), locally orange-speckled. Chilled margins have orange-brown (7.5YR 5/3) alteration fronts. Abundant halos around veins are brown (7.5YR 5/2) or dark gray (GLEY 1 4/N) of up to 8 mm width. VEINS: Veins up to 3.0 mm, veins composed of: clays; carbonate; iron oxyhydroxide; white sediment; pinkish sediment</p>
240.85	30			↑	I		4A			G			III	<p>393-U1558D-14R-2-A, 34-58 cm UNIT: 4A LITHOLOGY: Interpillow breccia TEXTURE: Clasts are sparsely phyric, cryptocrystalline pillow lava interiors and glassy margins. COLOR: GLEY 1 5/N (gray) PHENOCRYSTS: 2.5%: 1% 0.5-1.5 mm plagioclase, 1.5% 0.5-1 mm olivine. GROUNDMASS: Cryptocrystalline with glassy chilled margins VESICLES: Nonvesicular (0.5%) ALTERATION: Pillow basalts show GLEY 1 5/N background with dark gray-orange halos extending from chilled margins. Glass fragments show variable alteration, larger fragments altered along edges to reddish brown clays. VEINS: Veins up to 3.0 mm, veins composed of: clays; carbonate; iron oxyhydroxide; white sediment; pinkish sediment</p>
241.10	50			↑	I					G			III	<p>393-U1558D-14R-2-A, 58-101 cm UNIT: 4A LITHOLOGY: sparsely plagioclase-olivine-phyric basalt TEXTURE: Sparsely phyric, cryptocrystalline pillow lava interiors and glassy margins. COLOR: GLEY 1 5/N (gray) PHENOCRYSTS: 2.5%: 1% 0.5-1.5 mm plagioclase, 1.5% 0.5-1 mm olivine. GROUNDMASS: Cryptocrystalline with glassy chilled margins VESICLES: Nonvesicular (0.5%) ALTERATION: Overall alteration intensity moderate. Moderately altered background (gray, GLEY 1 5/N), partly orange-speckled. Chilled margins have orange-brown (7.5YR 5/3) alteration fronts. Halos around veins are dark gray (GLEY 1 4/N) or brown (7.5YR 5/2) of up to 8 mm width. Glass is highly altered. VEINS: Veins up to 3.0 mm, veins composed of: clays; carbonate; iron oxyhydroxide; white sediment; pinkish sediment</p>
241.35	80			↑	I	TS TSB ICP				G			III	<p>393-U1558D-14R-2-A, 58-101 cm UNIT: 4A LITHOLOGY: sparsely plagioclase-olivine-phyric basalt TEXTURE: Sparsely phyric, cryptocrystalline pillow lava interiors and glassy margins. COLOR: GLEY 1 5/N (gray) PHENOCRYSTS: 2.5%: 1% 0.5-1.5 mm plagioclase, 1.5% 0.5-1 mm olivine. GROUNDMASS: Cryptocrystalline with glassy chilled margins VESICLES: Nonvesicular (0.5%) ALTERATION: Overall alteration intensity moderate. Moderately altered background (gray, GLEY 1 5/N), partly orange-speckled. Chilled margins have orange-brown (7.5YR 5/3) alteration fronts. Halos around veins are dark gray (GLEY 1 4/N) or brown (7.5YR 5/2) of up to 8 mm width. Glass is highly altered. VEINS: Veins up to 3.0 mm, veins composed of: clays; carbonate; iron oxyhydroxide; white sediment; pinkish sediment</p>
	90			↑	I									
	100			↑	I									

Hole 393-U1558D-15R Section 1, Top of Section: 244.1 m (CSF-A)																		
Depth (mbst)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase		Olivine		Groundmass size	Vein abundance	Alteration intensity rank	Veins/Structures	Description	
									0	5	10	0						5
244.10	0	1		↑														
	10	2		↑														
	20	3		↑														
	30	4		↑														
	40	5		↑														
	50	6		↑														
244.60	60	7		↑														
	70	8		↑														
	80	9		↑														
	90	10		↑														
245.10	100	11		↑														
	110	12		↑														
	120	13		↑														
	130	14		↑														

393-U1558D-15R-1-A, 0-45 cm  
 UNIT: 4B  
 LITHOLOGY: sparsely plagioclase-olivine-phyric basaltic pillow breccia  
 TEXTURE: Brecciated  
 COLOR: 5YR 5/4 (reddish brown)  
 PHENOCRYSTS:  
 GROUNDMASS: Breccia clasts have cryptocrystalline or altered glassy groundmass  
 VESICLES:  
 ALTERATION: Overall alteration intensity high. Chilled margins have reddish yellow (5YR 6/6) orange-brown (7.5YR 5/3) alteration fronts. Abundant halos around veins are mostly brown (7.5YR 5/2). Glass is moderately altered.  
 VEINS: Veins up to 8.0 mm, veins composed of: clays; carbonate; pinkish sediment

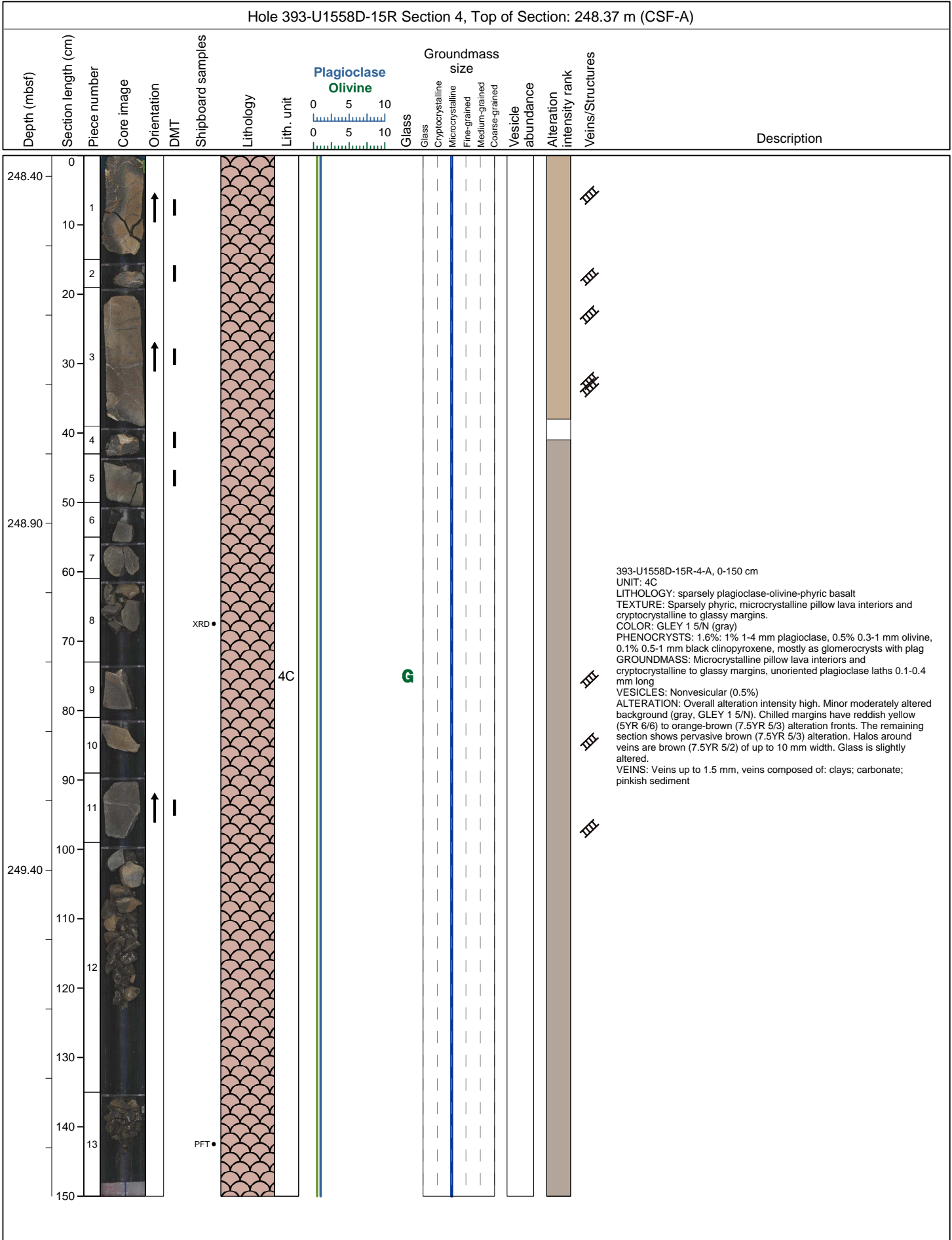
393-U1558D-15R-1-A, 45-91 cm  
 UNIT: 4B  
 LITHOLOGY: sparsely plagioclase-olivine-phyric basalt  
 TEXTURE: Sparsely phyric, cryptocrystalline pillow lava interiors and glassy margins. Strongly altered and groundmass and phenocrysts somewhat texturally overprinted.  
 COLOR: 7.5YR 5/3 (brown)  
 PHENOCRYSTS: 3%: 1.5% 0.5-1.5 mm plagioclase, 1.5% 0.5-1 mm olivine.  
 GROUNDMASS: Cryptocrystalline with glassy chilled margins  
 VESICLES: Nonvesicular (0.8%)  
 ALTERATION: Overall alteration intensity high. Chilled margins have reddish yellow (5YR 6/6) orange-brown (7.5YR 5/3) alteration fronts. Abundant halos around veins are mostly brown (7.5YR 5/2). Glass is moderately altered.  
 VEINS: Veins up to 8.0 mm, veins composed of: clays; carbonate; pinkish sediment

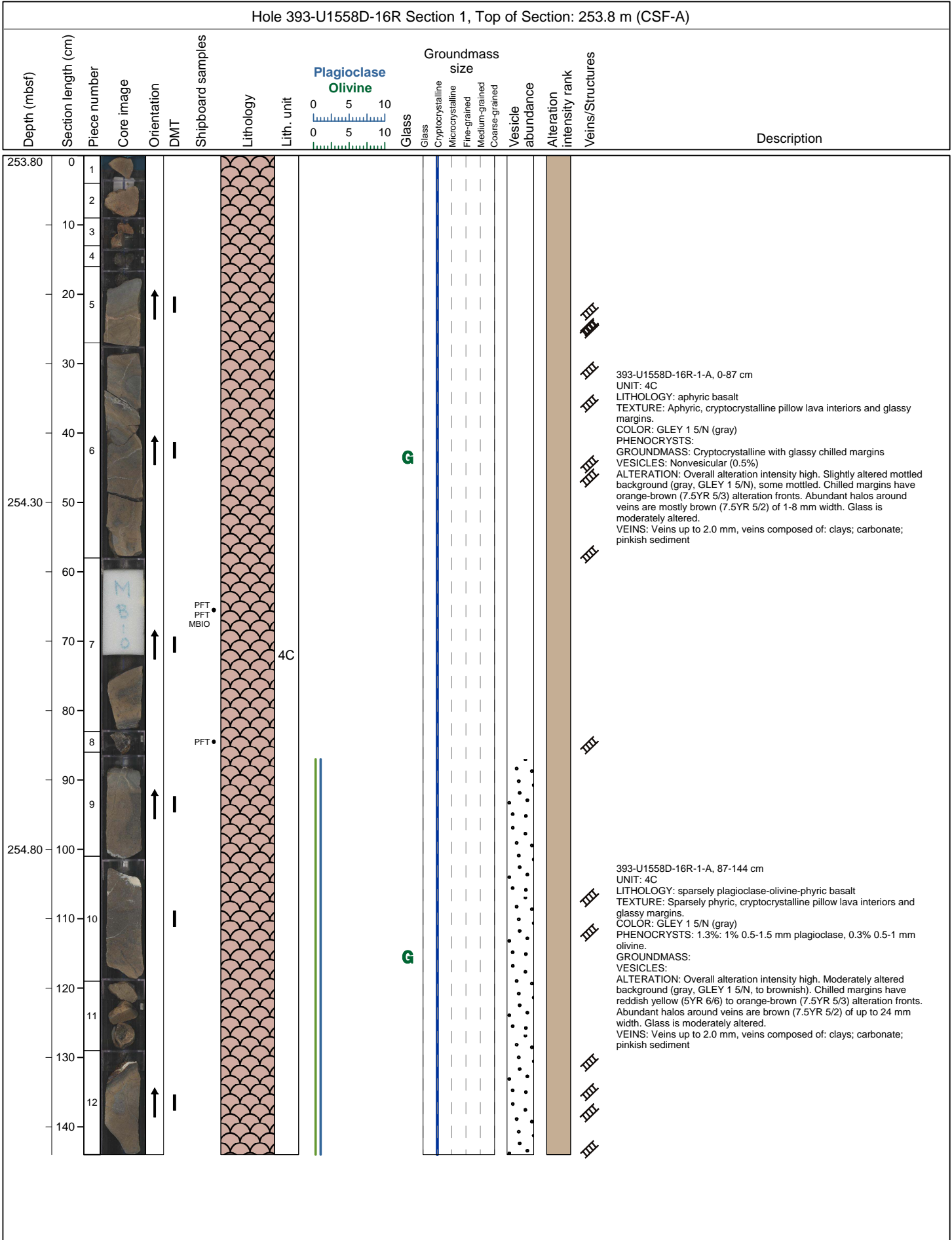
393-U1558D-15R-1-A, 91-117 cm  
 UNIT: 4B  
 LITHOLOGY: interpillow breccia  
 TEXTURE: Brecciated  
 COLOR: 7.5 YR 7/2 (pinkish gray)  
 PHENOCRYSTS:  
 GROUNDMASS: Breccia clasts have altered glassy groundmass  
 VESICLES:  
 ALTERATION: Pillow margins have reddish yellow (5YR 6/6) orange-brown (7.5YR 5/3) alteration fronts. Glass clasts show variable alteration to reddish brown clays, some fresh glass preserved in larger glass clasts.  
 VEINS: Veins up to 8.0 mm, veins composed of: clays; carbonate; pinkish sediment

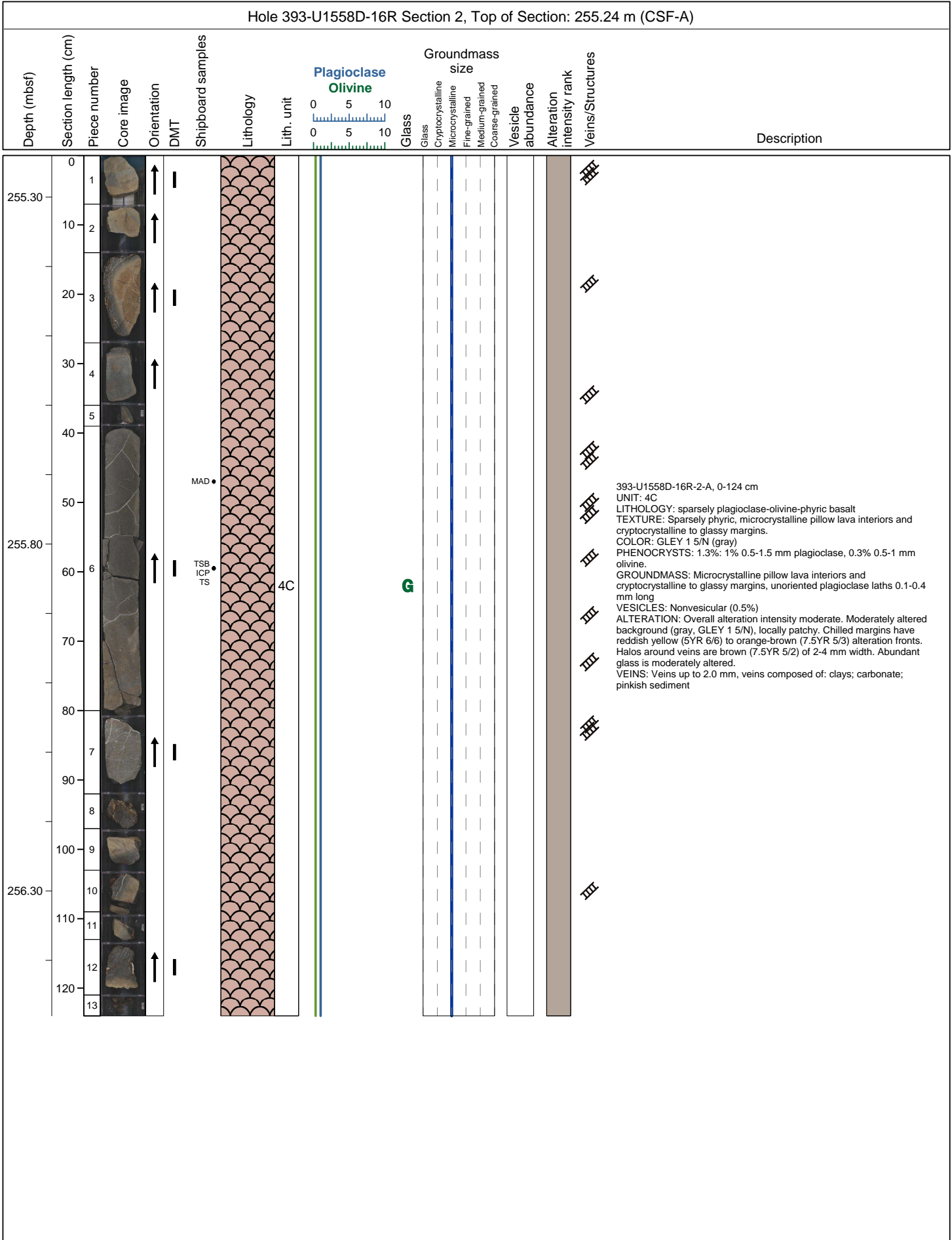
393-U1558D-15R-1-A, 117-133 cm  
 UNIT: 4B  
 LITHOLOGY: sparsely plagioclase-olivine-phyric basalt  
 TEXTURE: Sparsely phyric, cryptocrystalline pillow lava interiors and glassy margins. Strongly altered and groundmass and phenocrysts somewhat texturally overprinted.  
 COLOR: GLEY 1 5/N (gray)  
 PHENOCRYSTS: 1.5%: 1% 0.5-1.5 mm plagioclase, 0.5% 0.5-1 mm olivine.  
 GROUNDMASS: Cryptocrystalline with glassy chilled margins  
 VESICLES: Nonvesicular (0.8%)  
 ALTERATION: Overall alteration intensity high. Minor moderately altered background (gray, GLEY 1 5/N). Chilled margins have orange-brown (7.5YR 5/3) alteration fronts. Abundant halos around veins are brown (7.5YR 5/2).  
 VEINS: Veins up to 8.0 mm, veins composed of: clays; carbonate; pinkish sediment

Hole 393-U1558D-15R Section 2, Top of Section: 245.43 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				
245.50	0-10	1		↑										393-U1558D-15R-2-A, 0-17 cm UNIT: 4B LITHOLOGY: Sparsely plagioclase-olivine-phyric basalt TEXTURE: Sparsely phyric, cryptocrystalline pillow lava interiors and glassy margins. COLOR: GLEY 1 5/N (gray) PHENOCRYSTS: 1.5%: 1% 0.5-1.5 mm plagioclase, 0.5% 0.5-1 mm olivine. GROUNDMASS: Cryptocrystalline with glassy chilled margins VESICLES: Nonvesicular (0.5%) ALTERATION: Overall alteration intensity high. Chilled margins have orange-brown (7.5YR 5/3) alteration fronts. Abundant halos around veins are brown (7.5YR 5/2). Glass is slightly altered. VEINS: Veins up to 3.0 mm, veins composed of: clays; carbonate; iron oxyhydroxide; Mn oxides; pinkish sediment
	10-20	2		↑										393-U1558D-15R-2-A, 17-29 cm UNIT: 4B LITHOLOGY: hyaloclastite with limestone matrix TEXTURE: Hyaloclastite with sedimentary matrix COLOR: 10 YR_1 9/ (white), 5Y 6/4 (pale olive green) PHENOCRYSTS: GROUNDMASS: Breccia clasts have mostly altered glassy groundmass VESICLES: ALTERATION: All glass clasts <10 mm are completely altered to wither reddish brown, or commonly pale olive green clays. Large cm size glass clasts show alteration to reddish brown clays along edges, VEINS: Veins up to 3.0 mm, veins composed of: clays; carbonate; iron oxyhydroxide; Mn oxides; pinkish sediment
246.00	20-30	3		↑										393-U1558D-15R-2-A, 29-134 cm UNIT: 4B LITHOLOGY: sparsely plagioclase-olivine-phyric basalt TEXTURE: Sparsely phyric, cryptocrystalline pillow lava interiors and glassy margins. COLOR: GLEY 1 5/N (gray) PHENOCRYSTS: 1%: 0.5% 0.5-1.5 mm plagioclase, 0.5% 0.5-1 mm olivine. GROUNDMASS: Cryptocrystalline with glassy chilled margins VESICLES: Nonvesicular (0.5%) ALTERATION: Overall alteration intensity high. Minor slightly altered background (gray, GLEY 1 5/N). Chilled margins have orange-brown (7.5YR 5/3) alteration fronts. Abundant halos around veins are brown (7.5YR 5/2). Glass is slightly altered. VEINS: Veins up to 3.0 mm, veins composed of: clays; carbonate; iron oxyhydroxide; Mn oxides; pinkish sediment
	30-40	4		↑										
	40-50	5		↑										
	50-60	6		↑										
	60-70	7		↑										
	70-80	8		↑										
	80-90	9		↑										
	90-100	10		↑										
246.50	100-110	8		↑										
	110-120	9		↑										
	120-130	10		↑										
	130-140													
	140-150													

Hole 393-U1558D-15R Section 3, Top of Section: 246.93 m (CSF-A)														
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Alteration intensity rank	Veins/Structures	Description
									0 5 10 0 5 10	Glass Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained				
247.00	0-10	1-2		↑									III	393-U1558D-15R-3-A, 0-26 cm UNIT: 4B LITHOLOGY: aphyric basalt TEXTURE: Aphyric, cryptocrystalline COLOR: GLEY 1 5/N (gray) PHENOCRYSTS: GROUNDMASS: Cryptocrystalline with glassy chilled margins VESICLES: ALTERATION: Overall alteration intensity high. Minor slightly altered background (gray, GLEY 1 5/N). Chilled margins have orange-brown (7.5YR 5/3) alteration fronts. Abundant halos around veins are brown (7.5YR 5/2). Abundant glass is slightly altered. VEINS: Veins up to 2.0 mm, veins composed of: clays; carbonate; pinkish sediment
	10-20	2-3		↑									III	393-U1558D-15R-3-A, 26-41 cm UNIT: 4B LITHOLOGY: sparsely phyrlic, cryptocrystalline pillow lava interiors and glassy margins. COLOR: 5YR 5/4 (reddish brown) PHENOCRYSTS: 1%: 0.8% 0.5-1.5 mm plagioclase, 0.2% 0.5-1 mm olivine. GROUNDMASS: Cryptocrystalline with glassy chilled margins VESICLES: Nonvesicular (0.5%) ALTERATION: Overall alteration intensity high. Minor slightly altered background (gray, GLEY 1 5/N). Chilled margins have orange-brown (7.5YR 5/3) alteration fronts. Abundant halos around veins are brown (7.5YR 5/2). Abundant glass is slightly altered. VEINS: Veins up to 2.0 mm, veins composed of: clays; carbonate; pinkish sediment
	20-30	3-4		↑										393-U1558D-15R-3-A, 41-46 cm UNIT: 4B LITHOLOGY: Lithified calcareous sediment TEXTURE: COLOR: 7.5R 7/1 (pinkish gray) PHENOCRYSTS: GROUNDMASS: Breccia clasts have glassy groundmass VESICLES: ALTERATION: VEINS: Veins up to 2.0 mm, veins composed of: clays; carbonate; pinkish sediment
247.50	30-40	4-5		↑		TSP T6B ICP								393-U1558D-15R-3-A, 46-62 cm UNIT: 4B LITHOLOGY: sparsely phyrlic, cryptocrystalline pillow lava interiors and glassy margins. COLOR: 7.5YR 5/2 (brown) PHENOCRYSTS: 1%: 0.8% 0.5-1.5 mm plagioclase, 0.2% 0.5-1 mm olivine. GROUNDMASS: Cryptocrystalline with glassy chilled margins VESICLES: Nonvesicular (0.5%) ALTERATION: Overall alteration intensity high. Minor slightly altered background (gray, GLEY 1 5/N). Chilled margins have orange-brown (7.5YR 5/3) alteration fronts. Abundant halos around veins are brown (7.5YR 5/2). Abundant glass is slightly altered. VEINS: Veins up to 2.0 mm, veins composed of: clays; carbonate; pinkish sediment
	40-50	5-6		↑									III	393-U1558D-15R-3-A, 62-66 cm UNIT: 4B LITHOLOGY: Interpillow breccia TEXTURE: Glassy COLOR: 7.5R 7/1 (pinkish gray) PHENOCRYSTS: GROUNDMASS: VESICLES: ALTERATION: Extent of alteration of glass clasts linked to clast size. Small clasts are completely replaced to clay, larger clasts show alteration limited to edges VEINS: Veins up to 2.0 mm, veins composed of: clays; carbonate; pinkish sediment
	50-60	6-7		↑		MBIO PFT PFT							III	393-U1558D-15R-3-A, 66-78 cm UNIT: 4B LITHOLOGY: Magmatic breccia TEXTURE: Sparsely phyrlic, cryptocrystalline pillow lava interiors and glassy margins. COLOR: 7.5YR 5/2 (brown) PHENOCRYSTS: 1%: 0.8% 0.5-1.5 mm plagioclase, 0.2% 0.5-1 mm olivine. GROUNDMASS: Cryptocrystalline with glassy chilled margins VESICLES: Nonvesicular (0.5%) ALTERATION: Pillow lava shows almost complete alteration to brown halo, with relict bands of gray background. Glassy margin partially altered to reddish brown clays. VEINS: Veins up to 2.0 mm, veins composed of: clays; carbonate; pinkish sediment
	60-70	7-8		↑									III	393-U1558D-15R-3-A, 78-108 cm UNIT: 4B LITHOLOGY: Hyaloclastite and interpillow limestone TEXTURE: COLOR: 7.5R 7/1 (pinkish gray) PHENOCRYSTS: GROUNDMASS: Breccia clasts have glassy groundmass VESICLES: ALTERATION: All glass clasts <10 mm are completely altered or wither reddish brown, or commonly pale olive green clays. Large cm size glass clasts show alteration to reddish brown clays along edges. VEINS: Veins up to 2.0 mm, veins composed of: clays; carbonate; pinkish sediment
248.00	70-80	8-9		↑									III	393-U1558D-15R-3-A, 108-144 cm UNIT: 4B LITHOLOGY: sparsely phyrlic, cryptocrystalline pillow lava interiors and glassy margins. COLOR: 7.5YR 5/2 (brown) PHENOCRYSTS: 1.5%: 1% 0.5-1.5 mm plagioclase, 0.5% 0.5-1 mm olivine. GROUNDMASS: Cryptocrystalline with glassy chilled margins VESICLES: Nonvesicular (0.5%) ALTERATION: Overall alteration intensity moderate. Pervasive brown (7.5YR 5/3) alteration throughout the host rock. Abundant glass is moderately altered. VEINS: Veins up to 2.0 mm, veins composed of: clays; carbonate; pinkish sediment
	80-90	9-10		↑									III	
	90-100	10-11		↑									III	
	100-110	11-12		↑									III	
	110-120	12-13		↑									III	
	120-130	13-14		↑									III	
	130-140	14-15		↑									III	
	140-150	15-16		↑									III	

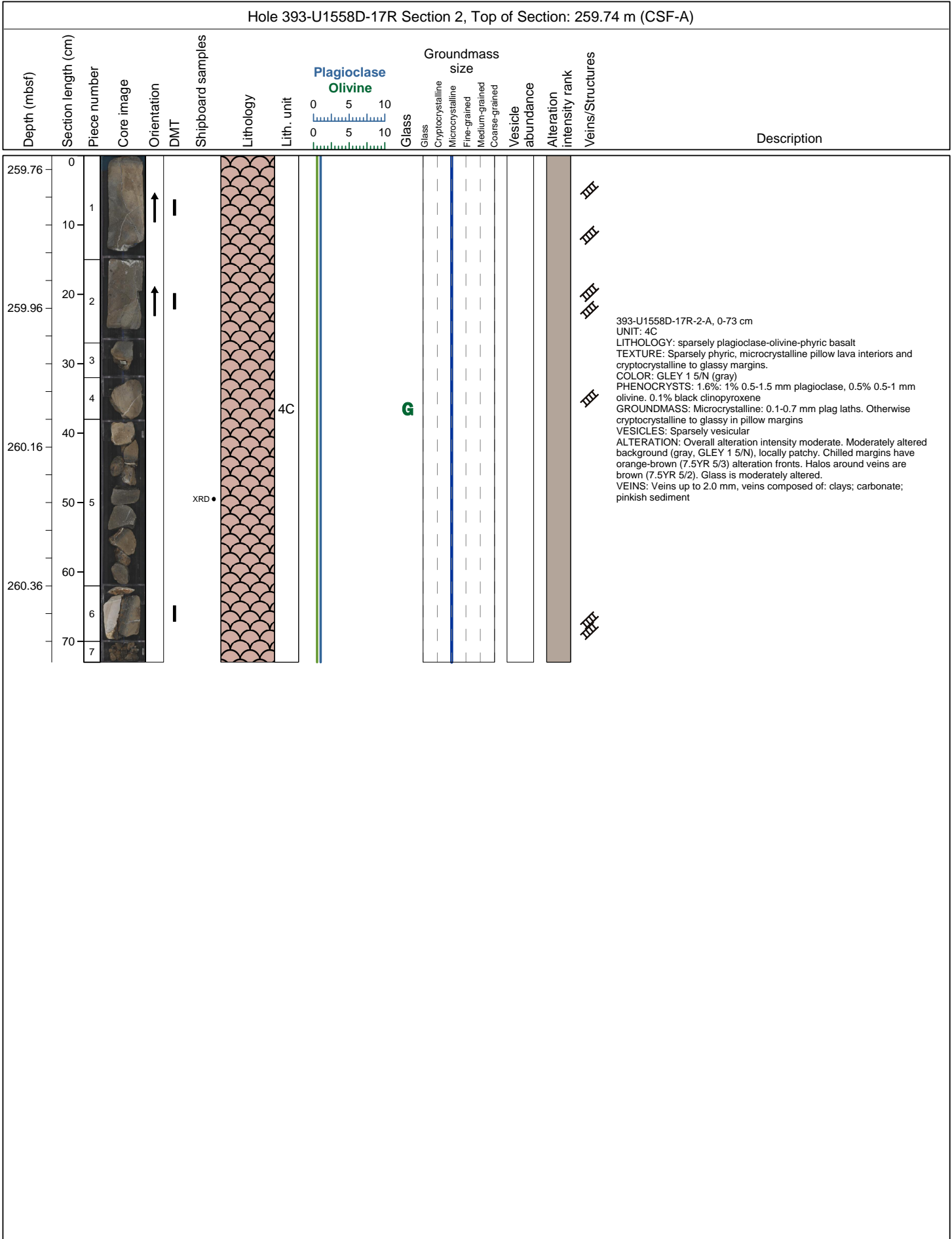


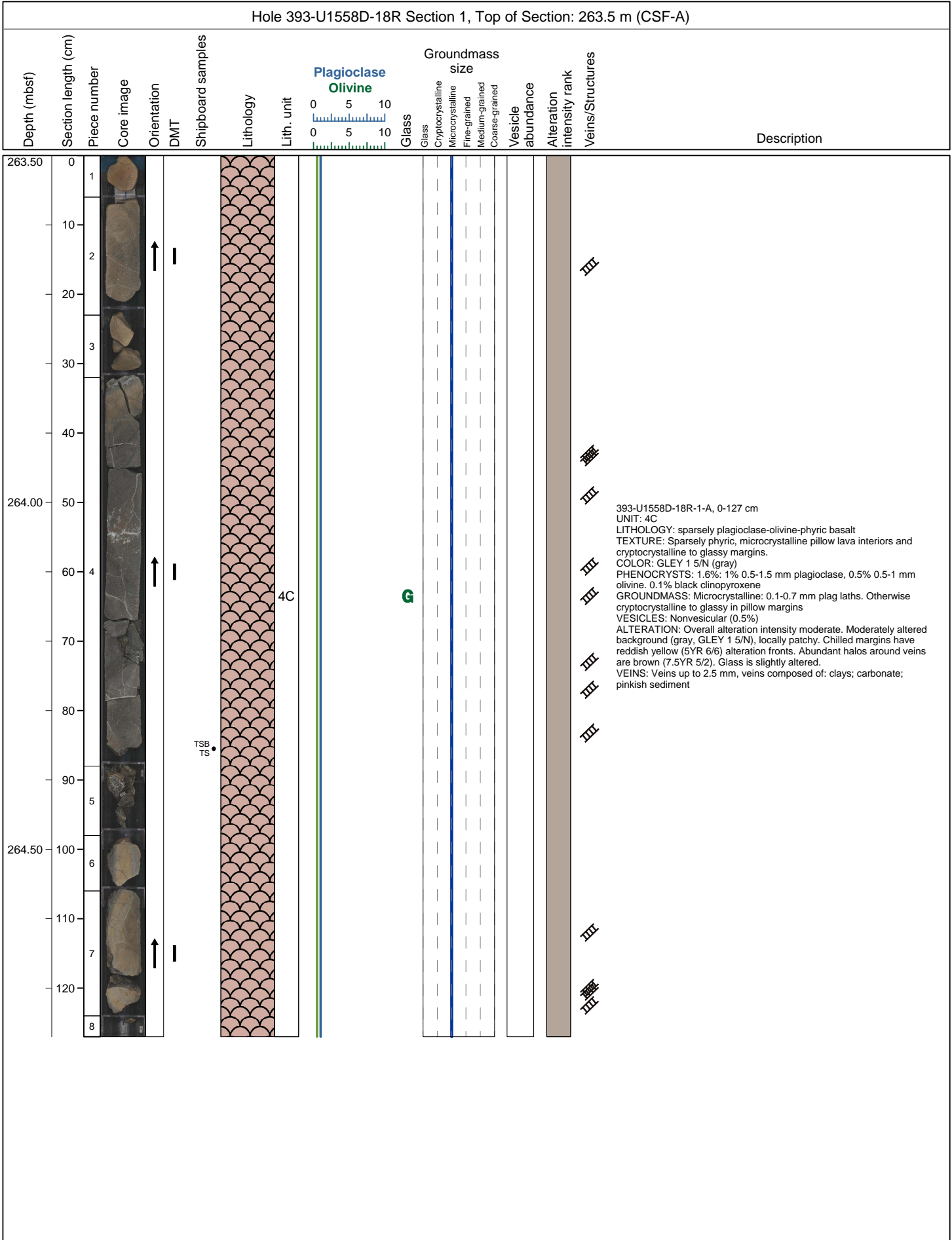


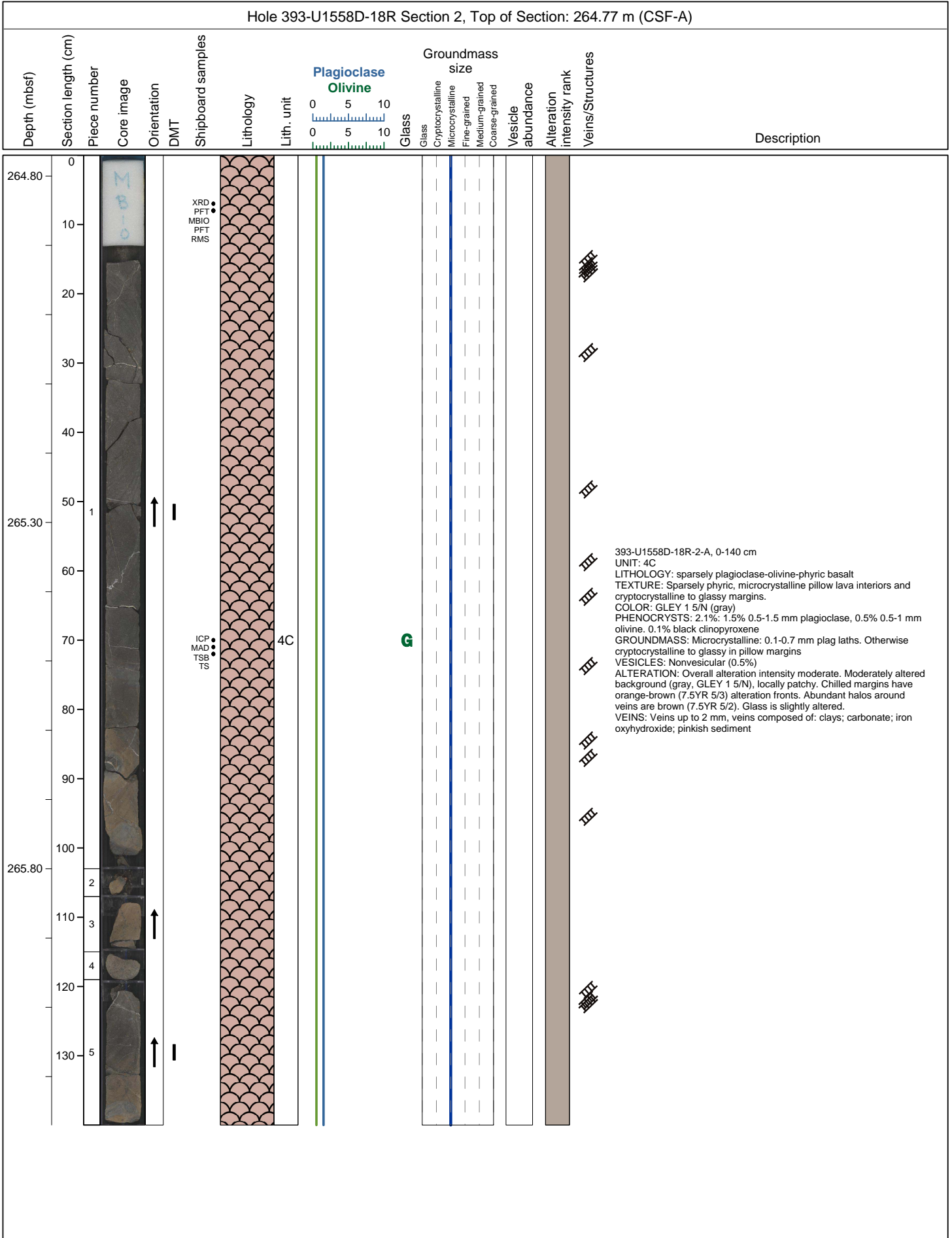


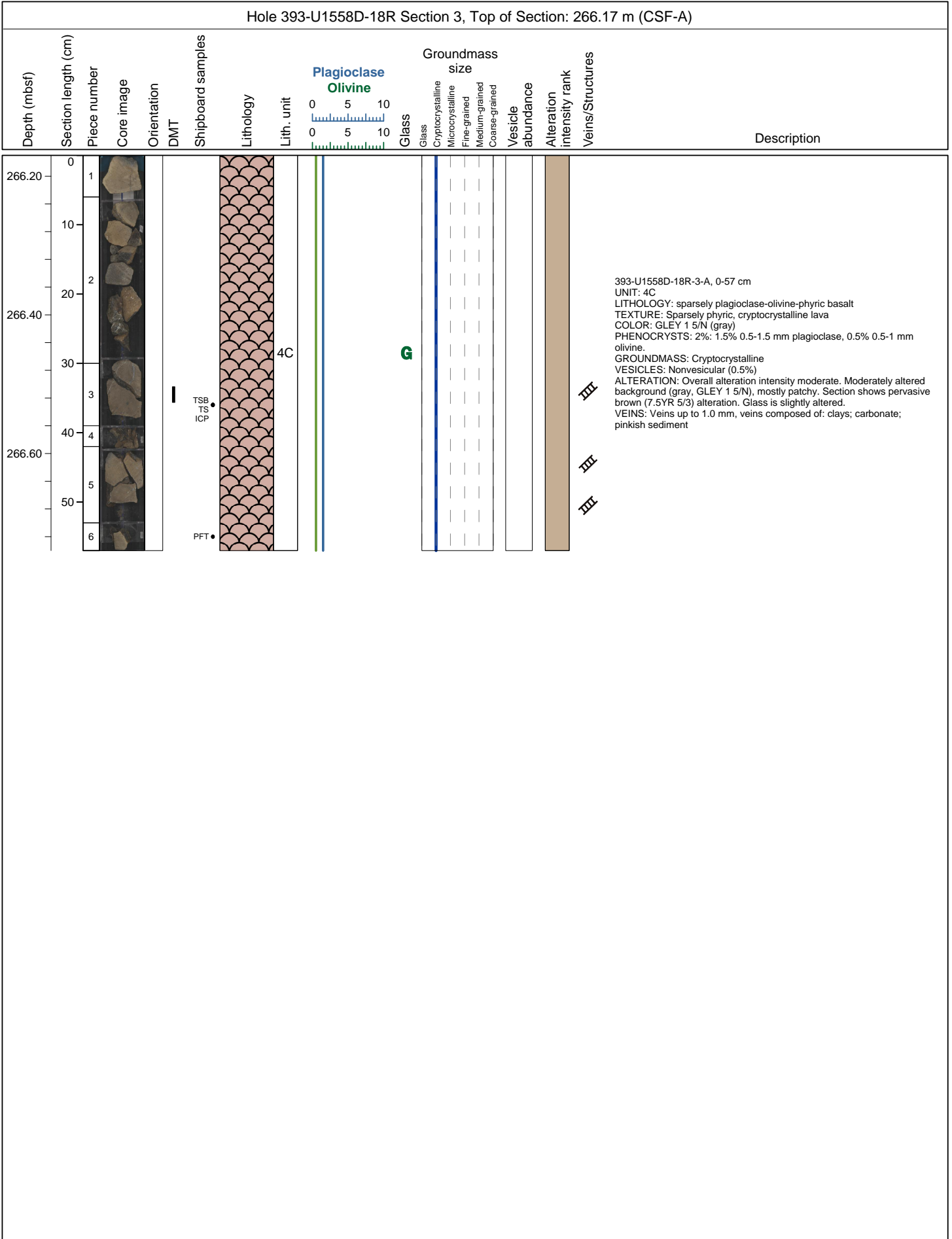


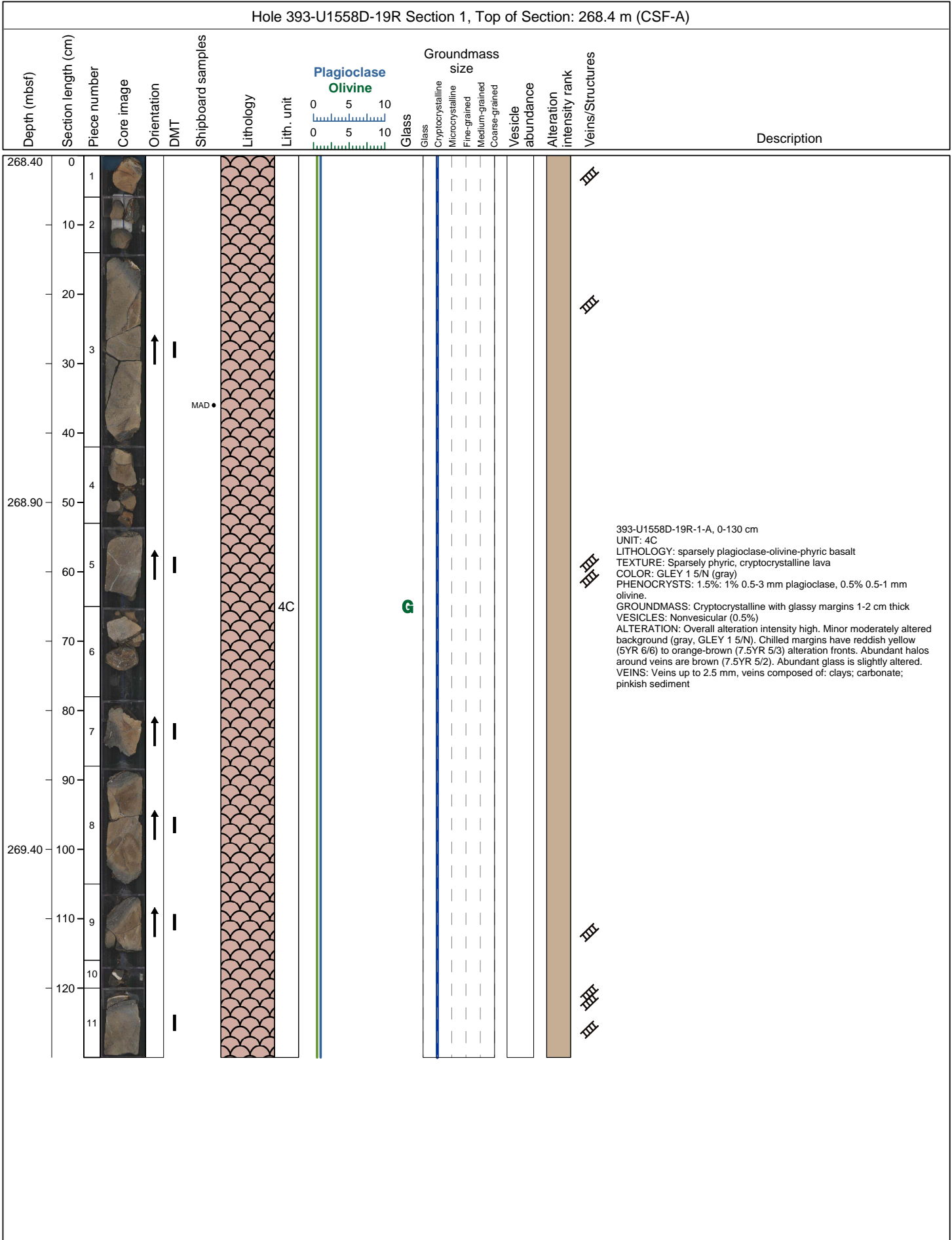
Hole 393-U1558D-17R Section 1, Top of Section: 258.7 m (CSF-A)															
Depth (mbstf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Vesicle abundance	Alteration intensity rank	Veins/Structures	Description
									0 5 10		Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained				
258.70	0	1						4C							<p>393-U1558D-17R-1-A, 0-104 cm                      UNIT: 4C                      LITHOLOGY: sparsely plagioclase-olivine-phyric basalt                      TEXTURE: Sparsely phynic, microcrystalline pillow lava interiors and cryptocrystalline to glassy margins.                      COLOR: GLEY 1 5/N (gray)                      PHENOCRYSTS: 1.6%: 1% 0.5-1.5 mm plagioclase, 0.5% 0.5-1 mm olivine. 0.1% black clinopyroxene                      GROUNDMASS: Microcrystalline: 0.1-0.7 mm plag laths. Otherwise cryptocrystalline to glassy in pillow margins                      VESICLES: Nonvesicular (0.5%)                      ALTERATION: Overall alteration intensity high. Moderately altered background (gray, GLEY 1 5/N), locally patchy. Chilled margins have reddish yellow (5YR 6/6) to orange-brown (7.5YR 5/3) alteration fronts. Abundant halos around veins are brown (7.5YR 5/2). Glass is slightly altered.                      VEINS: Veins up to 2.0 mm, veins composed of: clays; carbonate; iron oxyhydroxide; pinkish sediment</p>
	10	2													
	20	3													
	30	4													
258.95	40	5													
	50	6													
	60	7													
259.20	70	8													
	80	9													
	90	10													
259.45	100	11													
		12													
		13													
		14													
		15													
259.70		16													



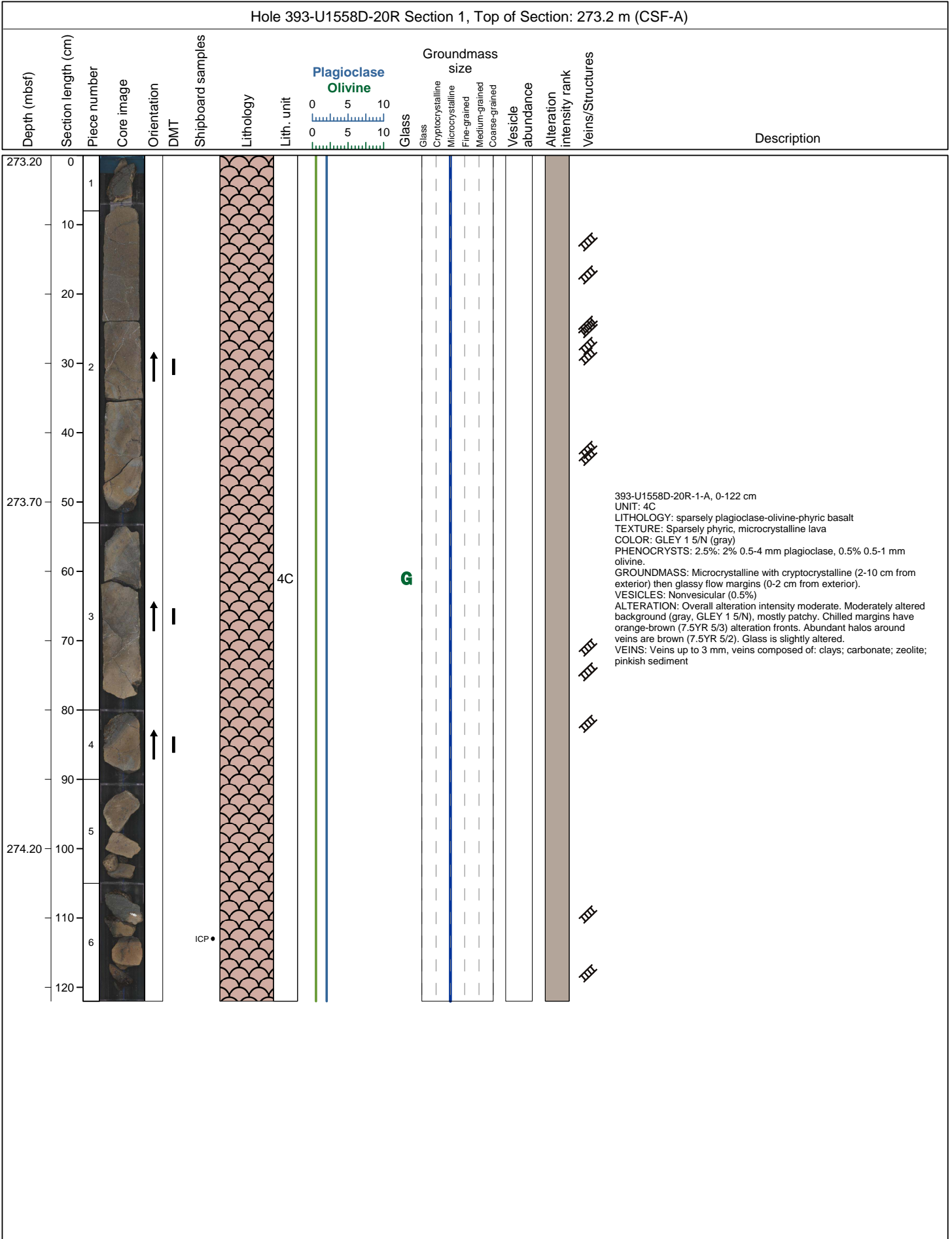






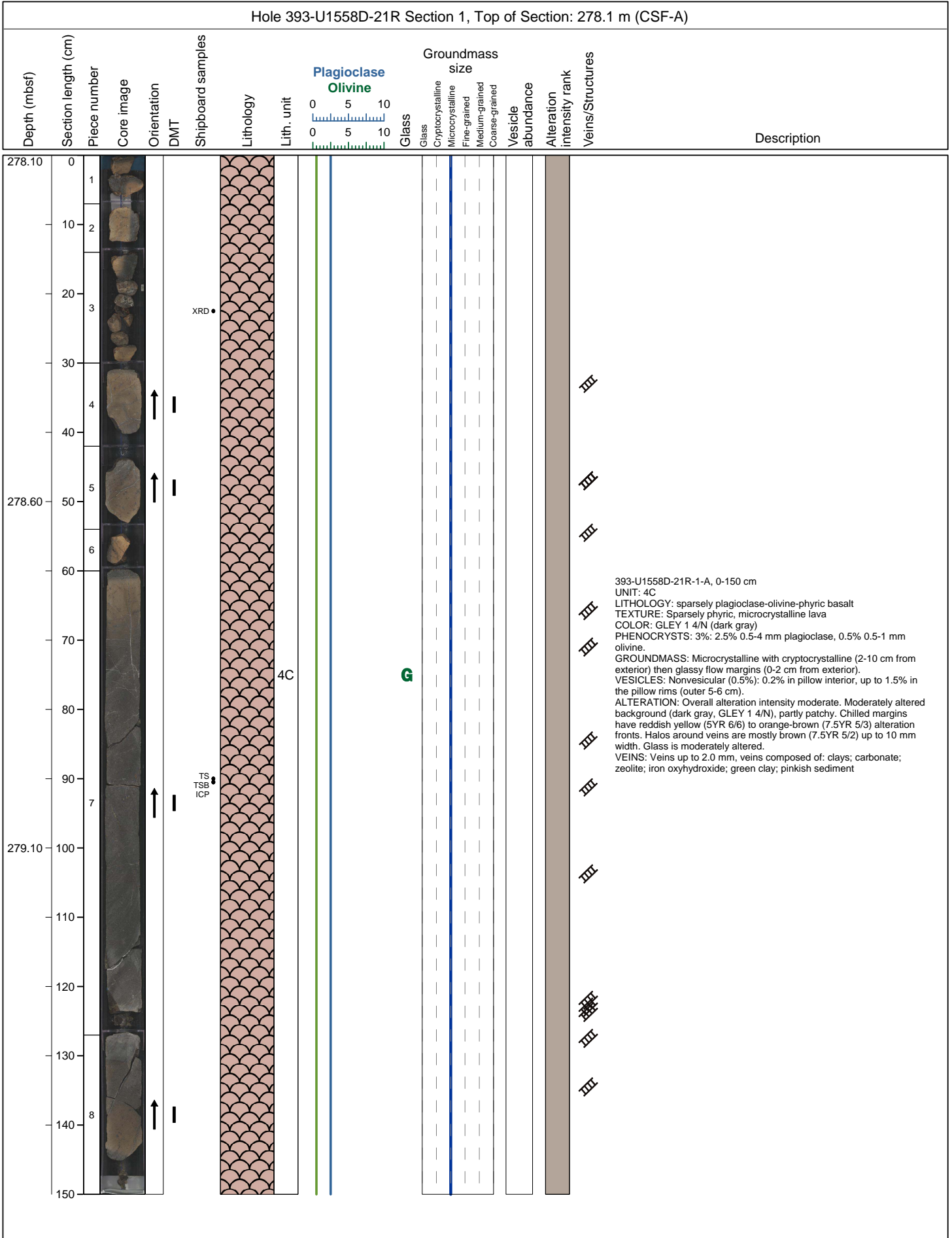


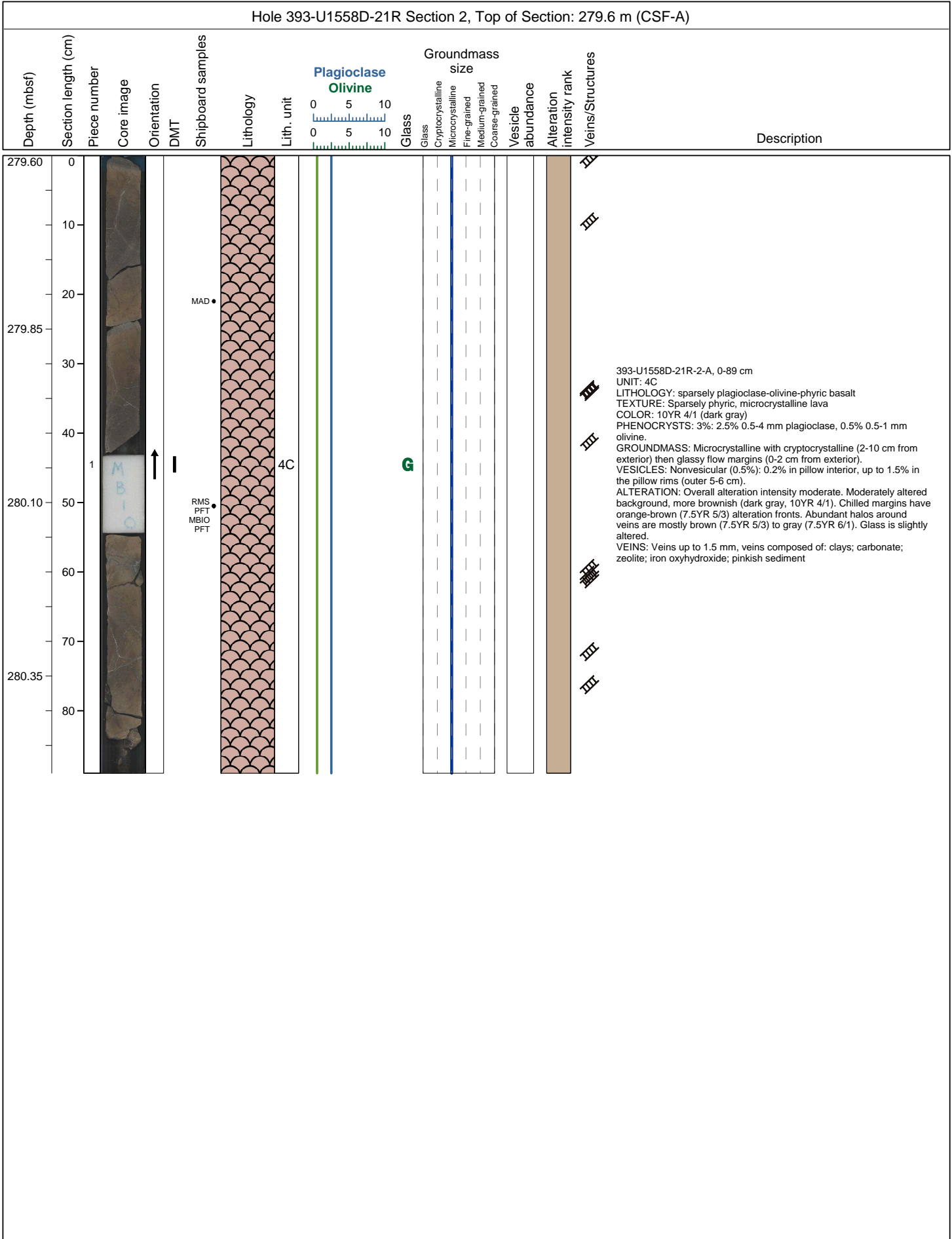
Hole 393-U1558D-19R Section 2, Top of Section: 269.7 m (CSF-A)																
Depth (mbstf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Vesicle abundance	Alteration intensity rank	Veins/Structures	Description	
									0 5 10		Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained					
269.70	0			↑												393-U1558D-19R-2-A, 0-49 cm UNIT: 4C LITHOLOGY: sparsely plagioclase-olivine-phyric basalt TEXTURE: Sparsely phyric, microcrystalline lava COLOR: GLEY 1 5/N (gray) PHENOCRYSTS: 2%: 1.5% 0.5-3 mm plagioclase, 0.5% 0.5-1 mm olivine. GROUNDMASS: Microcrystalline with glassy margins 1-2 cm thick VESICLES: Nonvesicular (0.5%) ALTERATION: Overall alteration intensity high. Moderately altered background (gray, GLEY 1 5/N), mostly patchy. Chilled margins have orange-brown (7.5YR 5/3) alteration fronts. Abundant halos around veins are brown (7.5YR 5/2) to gray (5YR 5/1). Glass is moderately altered. VEINS: Veins up to 9.0 mm, veins composed of: clays; carbonate; iron oxyhydroxide; pinkish sediment
	10	1		↑												
	20			↑												
	30	2		↑												
	40			↑												
	50	3		↑												
270.20	50	4		↑												
	60			↑												
	70	5		↑												
	80			↑												
	90	6		↑												
	100			↑												
	110	7		↑												
270.70	100	8		↑												
	110			↑												
	120	9		↑												

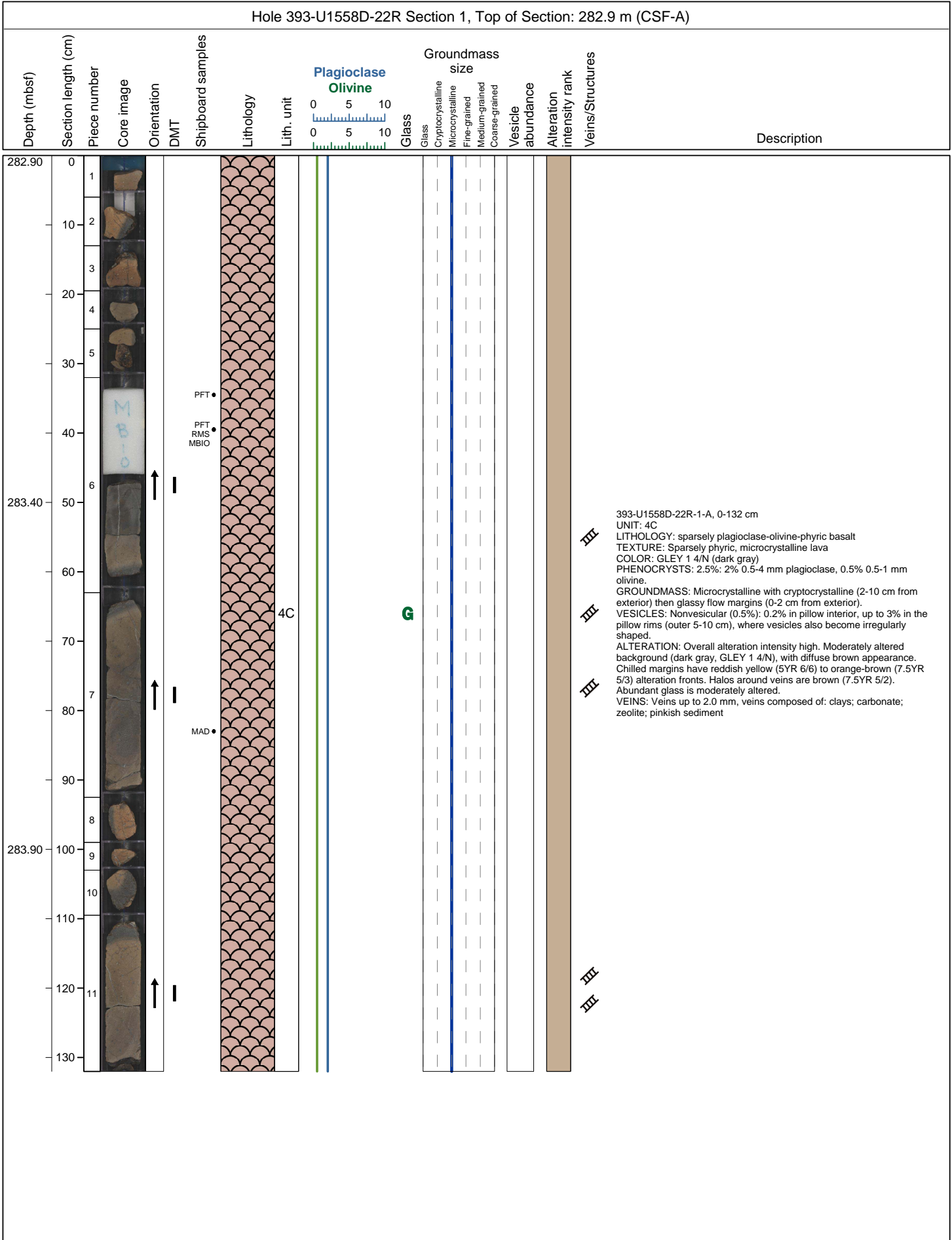


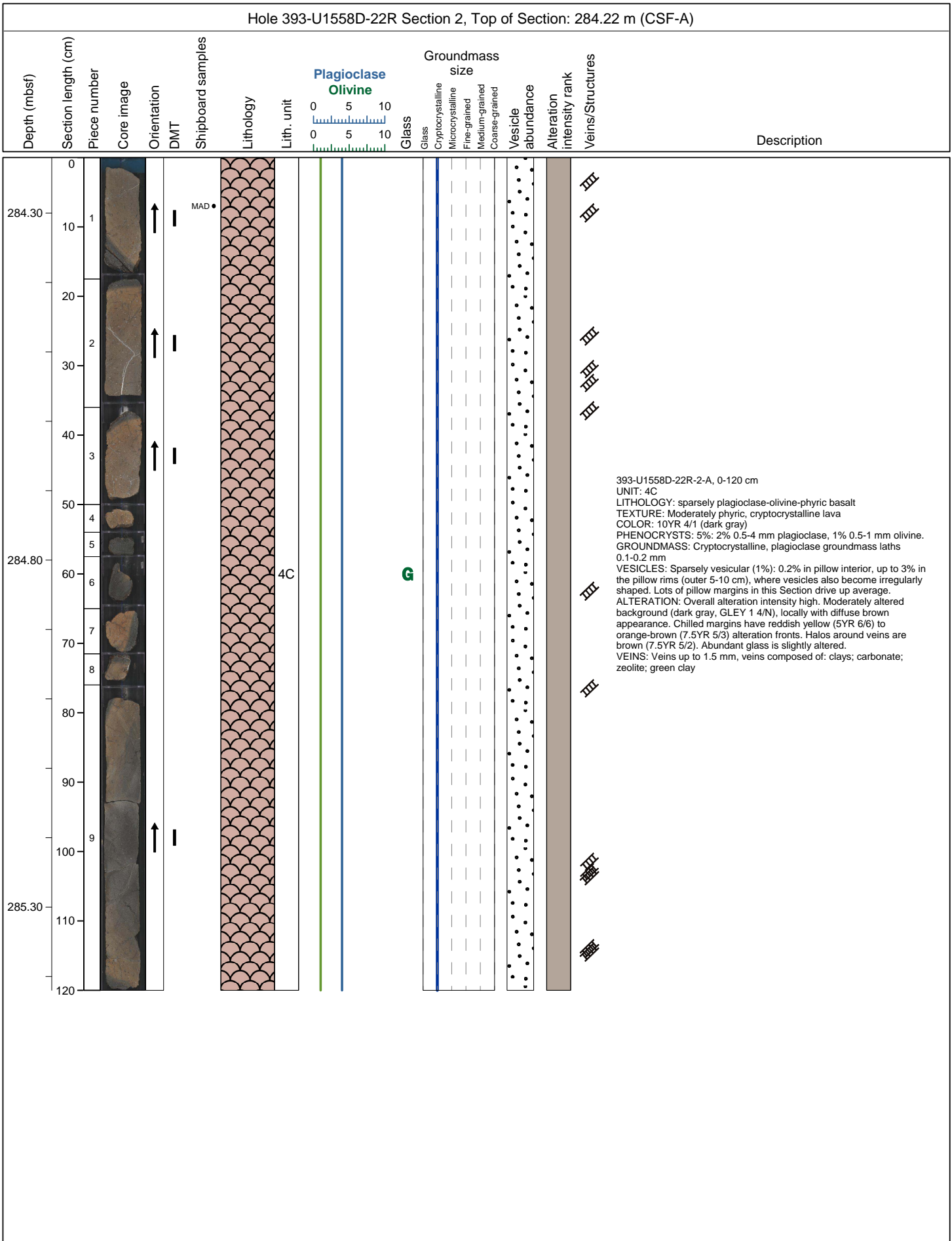


Hole 393-U1558D-20R Section 2, Top of Section: 274.42 m (CSF-A)																
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Groundmass size	Glass	Vesicle abundance	Alteration intensity rank	Veins/Structures	Description	
274.44	0															<p>393-U1558D-20R-2-A, 0-78 cm                      UNIT: 4C                      LITHOLOGY: sparsely plagioclase-olivine-phyric basalt                      TEXTURE: Sparsely phyric, microcrystalline lava                      COLOR: 7.5YR 5/2 (brown)                      PHENOCRYSTS: 3%. 2.5% 0.5-4 mm plagioclase, 0.5% 0.5-1 mm olivine.                      GROUNDMASS: Microcrystalline with cryptocrystalline (2-10 cm from exterior) then glassy flow margins (0-2 cm from exterior).                      VESICLES: Nonvesicular (0.5%); 0.2% in pillow interior, up to 1.5% in the pillow rims (outer 5-6 cm). Possibly a vuggy interval at 54-58, but unclear if primary porosity, filled with calcite.                      ALTERATION: Overall alteration intensity moderate. No background. Chilled margins have reddish yellow (5YR 6/6) alteration fronts. Halos around veins are brown (7.5YR 5/2). Abundant glass is slightly altered.                      VEINS: Veins up to 1.5 mm, veins composed of: clays; carbonate; zeolite; pinkish sediment</p>
	10	1		↑												
274.64	20	2														
	30	3														
274.84	40	4				XRD •		4C		G						
	50	5														
	60	6		↑												
275.04	70	7		↑												
	80	8														


























Hole 393-U1558D-22R Section 3, Top of Section: 285.42 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				
285.44	0	1		↑										III	
	10	2		↑										III	
285.64	20	3													
	30	4													
285.84	40	5				PFT		4C		G				III	
	50	6													
286.04	60	7													
	70														

393-U1558D-22R-3-A, 0-76.5 cm  
 UNIT: 4C  
 LITHOLOGY: moderately plagioclase-olivine-phyric basalt  
 TEXTURE: Sparsely phyric, cryptocrystalline lava  
 COLOR: 10YR 4/1 (dark gray)  
 PHENOCRYSTS: 2.5%: 2% 0.5-4 mm plagioclase, 0.5% 0.5-1 mm olivine.  
 GROUNDMASS: Cryptocrystalline  
 VESICLES: Nonvesicular (0.5%): 0.2% in pillow interior, up to 2% in the pillow rim pieces  
 ALTERATION: Overall alteration intensity moderate. Moderately altered background (dark gray, GLEY 1 4/N), with diffuse brown appearance. Halos around veins are pervasive brown (7.5YR 5/3) locally mixed with background. Minor glass is slightly altered.  
 VEINS: Veins up to 1.5 mm, veins composed of: clays; carbonate; iron oxyhydroxide; green clay

Hole 393-U1558D-23R Section 1, Top of Section: 287.8 m (CSF-A)																
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	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					
287.80	0	1		↑												
	10			↑												
	20			↑												
	30	2		↑												
	40			↑												
	50			↑												
288.30	50			↑												
	60	3		↑												
	70	4		↑												
	80	5		↑												
	87	6		↑												
	88			↑												
	90	7		↑												
	97	8		↑												
288.80	100			↑												
	110	9		↑												
	120	10		↑												
	130	11		↑												
	140	12		↑												

Hole 393-U1558D-23R Section 2, Top of Section: 289.27 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 Glass Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained				
289.28	0			↑	I		V V V						III	
	1			↑	I		V V V						III	
289.48	20			↑	I		V V V							
	2			↑	I		V V V							
	30			↑	I		V V V							
	3			↑	I		V V V							
	4			↑	I		V V V							
	50			↑	I		V V V							
	5			↑	I		V V V							
289.68	40			↑	I		V V V							
	3			↑	I		V V V							
	4			↑	I		V V V							
	50			↑	I		V V V							
	5			↑	I		V V V							
289.88	60			↑	I		V V V							
	6			↑	I		V V V							
	7			↑	I		V V V							

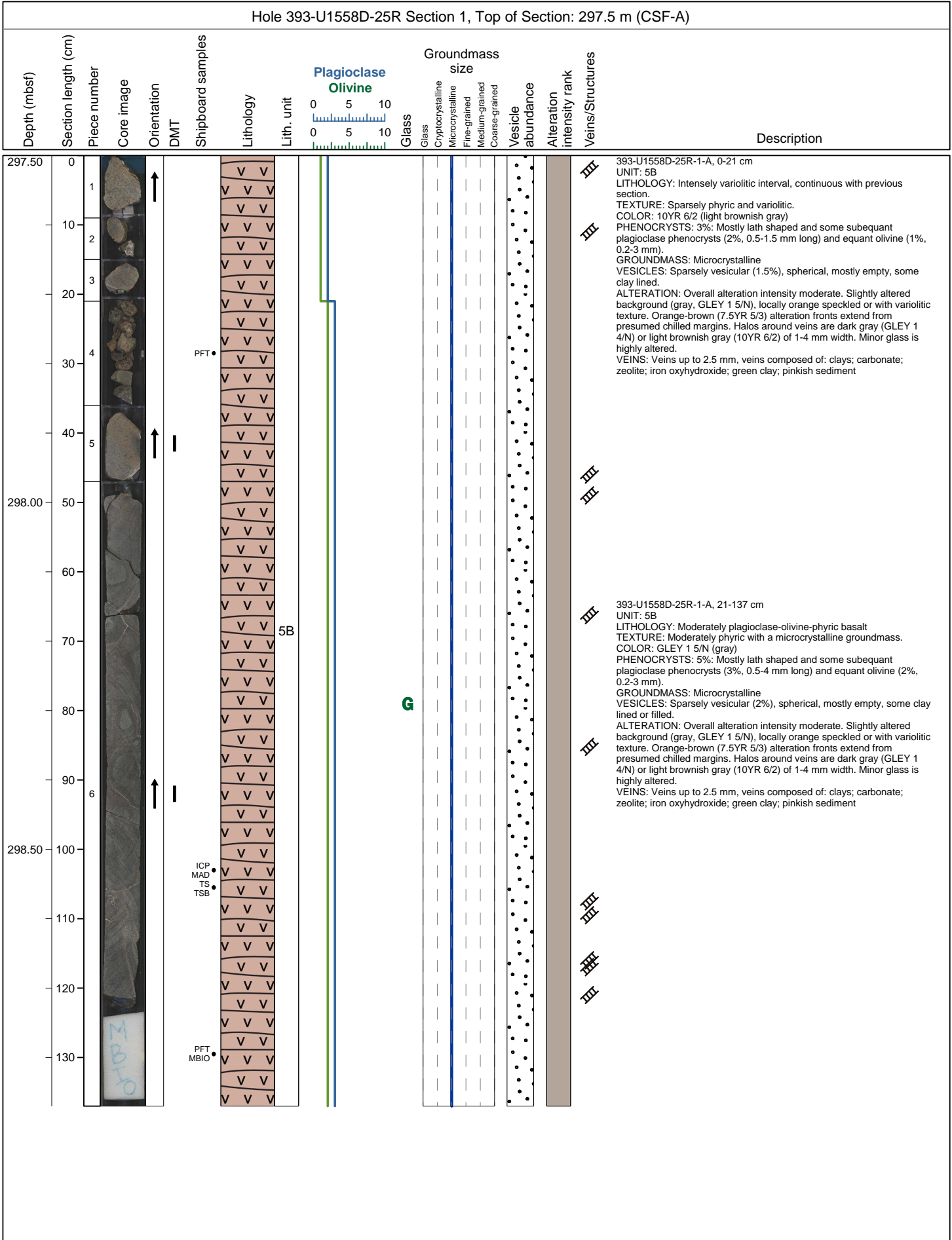
393-U1558D-23R-2-A, 0-69 cm  
 UNIT: 5A  
 LITHOLOGY: sparsely plagioclase-olivine-pyroxene phyric basalt  
 TEXTURE: Sparsely phyric with a microcrystalline groundmass  
 COLOR: GLEY 1 5/N (gray)  
 PHENOCRYSTS: 3%: Two distinctive types of plagioclase phenocryst. 1) Subequant to tabular blocky phenocrysts as in overlying units (0.5-3 mm, 1% of rock). 2) Lath shaped, smaller plagioclase phenocrysts (0.5-1. mm long, 1% of rock). Equant olivine (1%, 0.5-1 mm).  
 GROUNDMASS: Microcrystalline  
 VESICLES: Nonvesicular (0.8%): more vesicular than previous section, some up to 2 mm  
 ALTERATION: Overall alteration intensity moderate. Slightly altered background (gray, GLEY 1 5/N), locally orange-speckled. Halos around veins are dark gray (GLEY 1 4/N) or light brownish gray (10YR 6/2) of 1-8 mm width.  
 VEINS: Veins up to 1.5 mm, veins composed of: clays; carbonate; iron oxyhydroxide; green clay



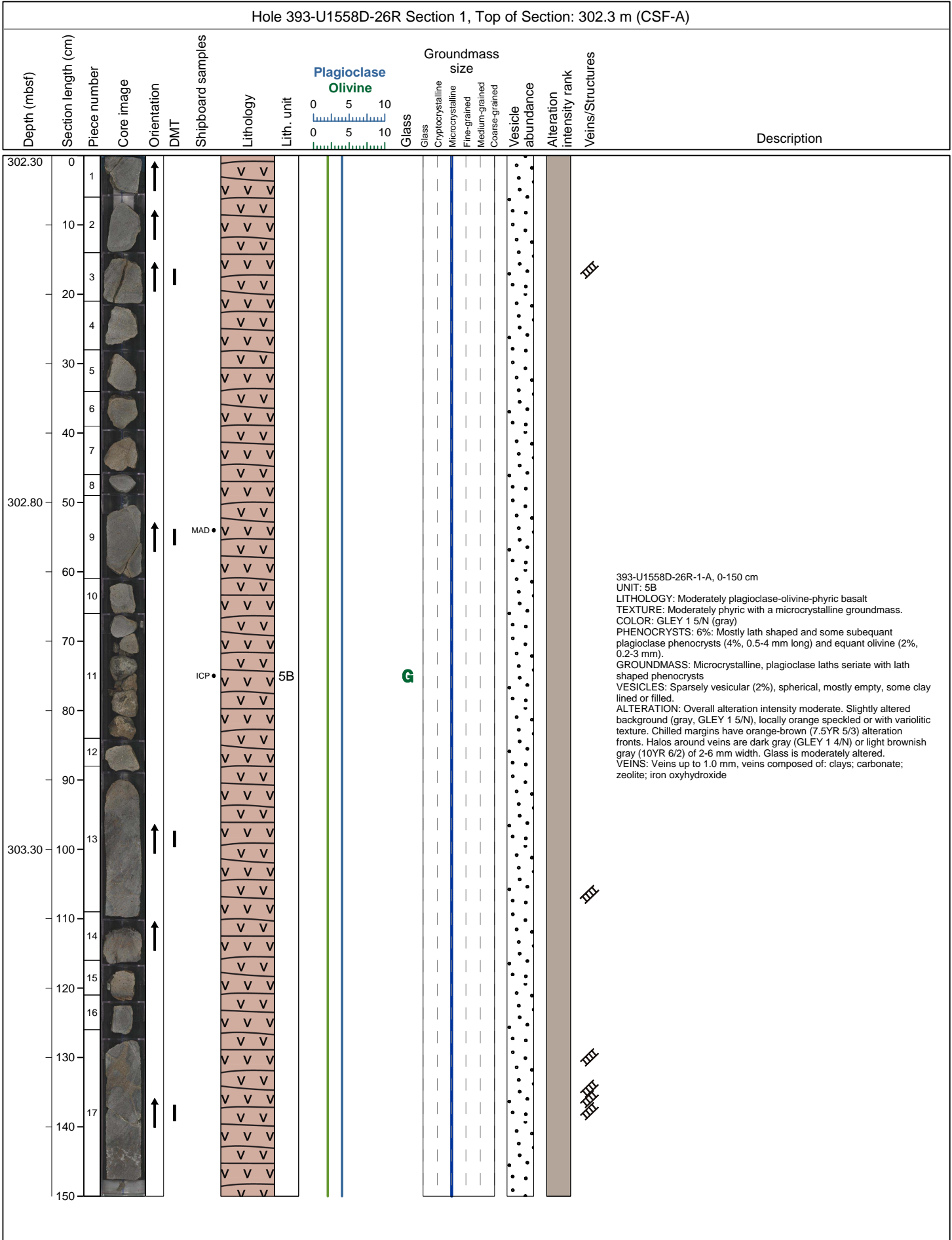
Hole 393-U1558D-24R Section 1, Top of Section: 292.6 m (CSF-A)																		
Depth (mbstf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase		Groundmass size				Vesicle abundance	Alteration intensity rank	Veins/Structures	Description
									Olivine	Olivine	Glass	Glass	Cryptocrystalline	Microcrystalline				
292.60	0	1		↑			V V											
	10	2					V V V											
	20	4					V V V											
	30	6					V V V											
	40	7		↑	I		V V V											
293.10	50	8					V V V											
	60	10					V V V											
	70	11		↑	I		V V V											
	80	12					V V V											
	90	13		↑	I		V V V											
293.60	100	14					V V V											
	110	16					V V V											
	120	17					V V V											
	130	19					V V V											

393-U1558D-24R-1-A, 0-105 cm  
 UNIT: 5A  
 LITHOLOGY: sparsely plagioclase-olivine-phyric basalt  
 TEXTURE: Sparsely phyric with a microcrystalline groundmass.  
 COLOR: GLEY 1 5/N (gray)  
 PHENOCRYSTS: 3%: Mostly lath shaped and some subequant plagioclase phenocrysts (2%, 0.5-1.5 mm long) and equant olivine (1%, 0.2-3 mm).  
 GROUNDMASS: Microcrystalline  
 VESICLES: Sparsely vesicular (1.5%), up to 3% in Pc 7, mostly empty but some lined or filled with various blue and beige clays and carbonate  
 ALTERATION: Overall alteration intensity moderate. Slightly altered background (gray, GLEY 1 5/N), locally orange-speckled or with variolitic texture. Orange-brown (7.5YR 5/3) alteration fronts extend from presumed chilled margins. Halos around veins are dark gray (GLEY 1 4/N) or light brownish gray (10YR 6/2) of up to 13 mm width.  
 VEINS: Veins up to 1.5 mm, veins composed of: clays; carbonate; zeolite; iron oxyhydroxide; green clay

393-U1558D-24R-1-A, 105-133 cm  
 UNIT: 5B  
 LITHOLOGY: sparsely plagioclase-olivine-phyric basalt  
 TEXTURE: Sparsely phyric and variolitic.  
 COLOR: 10YR 6/2 (light brownish gray)  
 PHENOCRYSTS: 3%: Mostly lath shaped and some subequant plagioclase phenocrysts (2%, 0.5-1.5 mm long) and equant olivine (1%, 0.2-3 mm).  
 GROUNDMASS: Microcrystalline  
 VESICLES: Sparsely vesicular (1.5%), spherical, mostly empty, some clay lined.  
 ALTERATION: Overall alteration intensity moderate. Slightly altered background (gray, GLEY 1 5/N), locally orange-speckled or with variolitic texture. Orange-brown (7.5YR 5/3) alteration fronts extend from presumed chilled margins. Halos around veins are dark gray (GLEY 1 4/N) or light brownish gray (10YR 6/2) of up to 13 mm width.  
 VEINS: Veins up to 0.2 mm, veins composed of: clays; carbonate; green clay



Hole 393-U1558D-25R Section 2, Top of Section: 298.87 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			
298.88	0	1		↑			V V						<p>393-U1558D-25R-2-A, 0-87 cm                      UNIT: 5B                      LITHOLOGY: Moderately phyric with a microcrystalline groundmass.                      TEXTURE: Moderately phyric with a microcrystalline groundmass.                      COLOR: GLEY 1 5/N (gray)                      PHENOCRYSTS: 7%: Mostly lath shaped and some subequant plagioclase phenocrysts (4%, 0.5-4 mm long) and equant olivine (3%, 0.2-3 mm).                      GROUNDMASS: Microcrystalline                      VESICLES: Sparsely vesicular (2%), spherical, mostly empty, some clay lined or filled.                      ALTERATION: Overall alteration intensity moderate. Moderately altered background (gray, GLEY 1 5/N), locally with variolitic texture. Chilled margins have orange-brown (7.5YR 5/3) alteration fronts. Halos around veins are dark gray (GLEY 1 4/N) of 2-10 mm width. Glass is moderately altered.                      VEINS: Veins up to 0.5 mm, veins composed of: clays; carbonate; zeolite; iron oxyhydroxide</p>
	10	2					V V V						
299.08	20	3					V V V						
	30	4					V V V						
299.28	40	5		↑			V V V						
	50	6					V V V						
	60	7					V V V						
	70	8					V V V						
	80	9					V V V						
	80	10					V V V						
299.68	80	11		↑			V V V						



Hole 393-U1558D-27R Section 1, Top of Section: 307.2 m (CSF-A)																	
Depth (mbstf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Groundmass size			Alteration intensity rank	Veins/Structures	Description			
									Plagioclase	Olivine	Glass						
									Glass	Cryptocrystalline	Microcrystalline	Fine-grained	Medium-grained	Coarse-grained	Vesicle abundance		
307.20	0	1					V V V										
	2						V V V										
	10	3					V V V										
	20	4					V V V										
	30	5					V V V										
	30						V V V										
	30						V V V										
	30	6					V V V										
	40	7					V V V										
	40	8					V V V										
307.70	50	9					V V V										
	60	10					V V V										
	70	11					V V V										
	80	12					V V V										
	80						V V V										
	80						V V V										
	90	13					V V V										
	90						V V V										
	100	14					V V V										
308.20	100	15					V V V										
	110	16					V V V										
	120	17					V V V										
	130	18					V V V										
	140	19					V V V										
	140						V V V										
	140	20					V V V										

TSP  
ICBP

5B

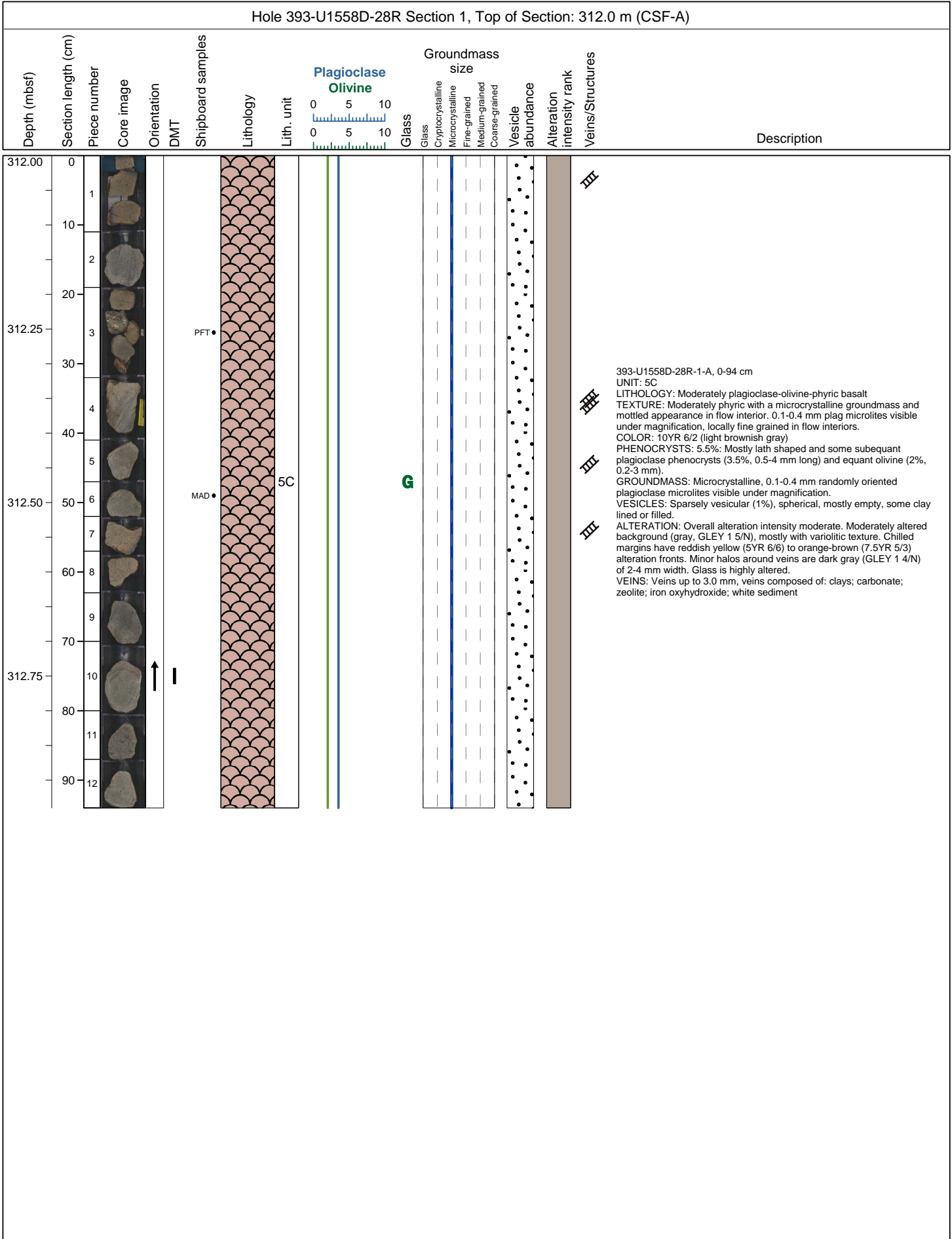
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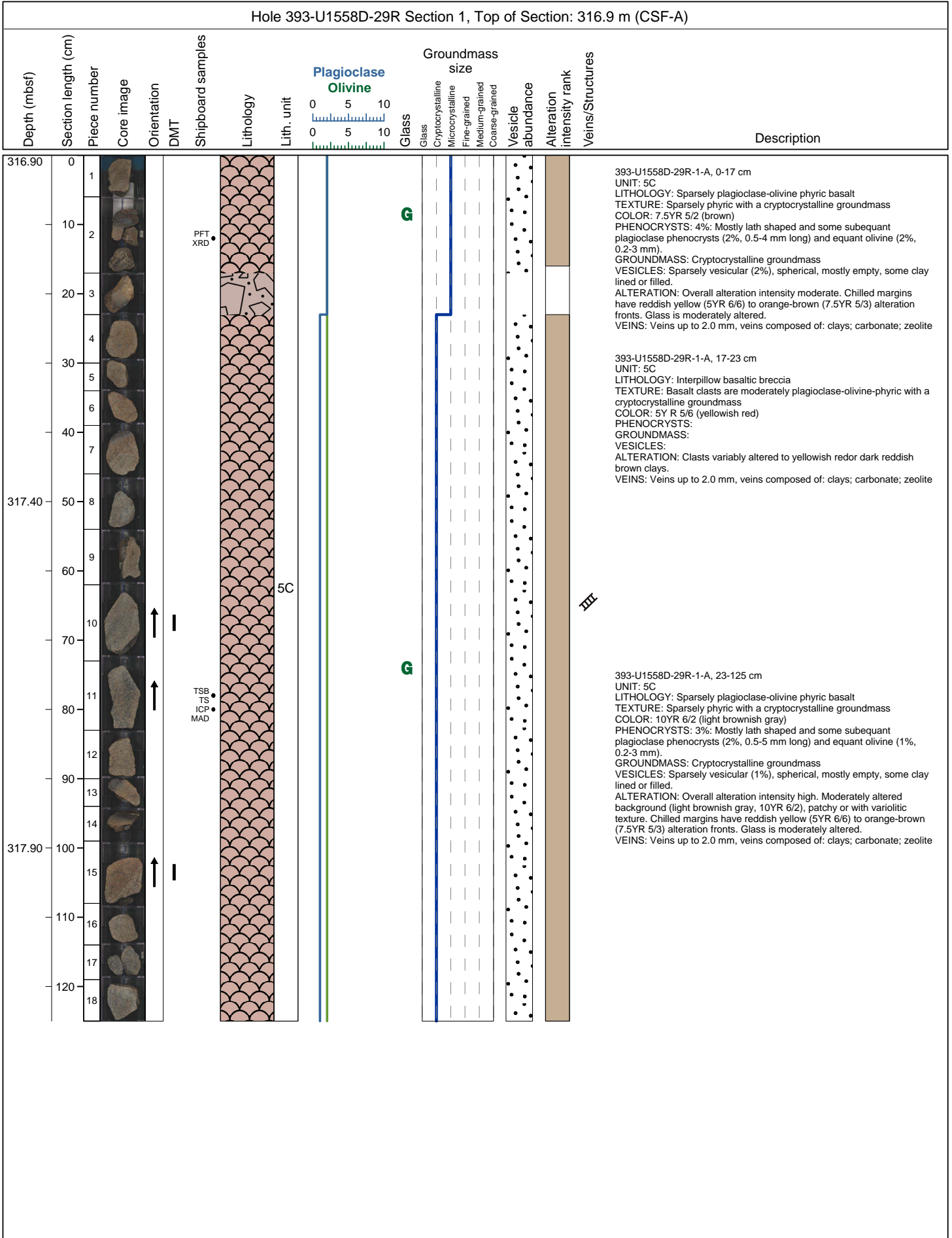
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












III

III

393-U1558D-27R-1-A, 0-149 cm  
 UNIT: 5B  
 LITHOLOGY: Moderately plagioclase-olivine-phyric basalt  
 TEXTURE: Moderately phyric with a microcrystalline groundmass and variolitic pieces.  
 COLOR: GLEY 1 5/N (gray)  
 PHENOCRYSTS: 6%: Mostly lath shaped and some subequant plagioclase phenocrysts (4%, 0.5-4 mm long) and equant olivine (2%, 0.2-3 mm).  
 GROUNDMASS: Microcrystalline, 0.1-0.2 mm randomly oriented plagioclase microlites visible under magnification.  
 VESICLES: Sparsely vesicular (2%), spherical, mostly empty, some clay lined or filled.  
 ALTERATION: Overall alteration intensity moderate. Moderately altered background (gray, GLEY 1 5/N), mostly with variolitic texture. Chilled margins have orange-brown (7.5YR 5/3) alteration fronts. Minor halos around veins. Glass is highly altered.  
 VEINS: Veins up to 1.0 mm, veins composed of: clays; carbonate; zeolite; iron oxyhydroxide



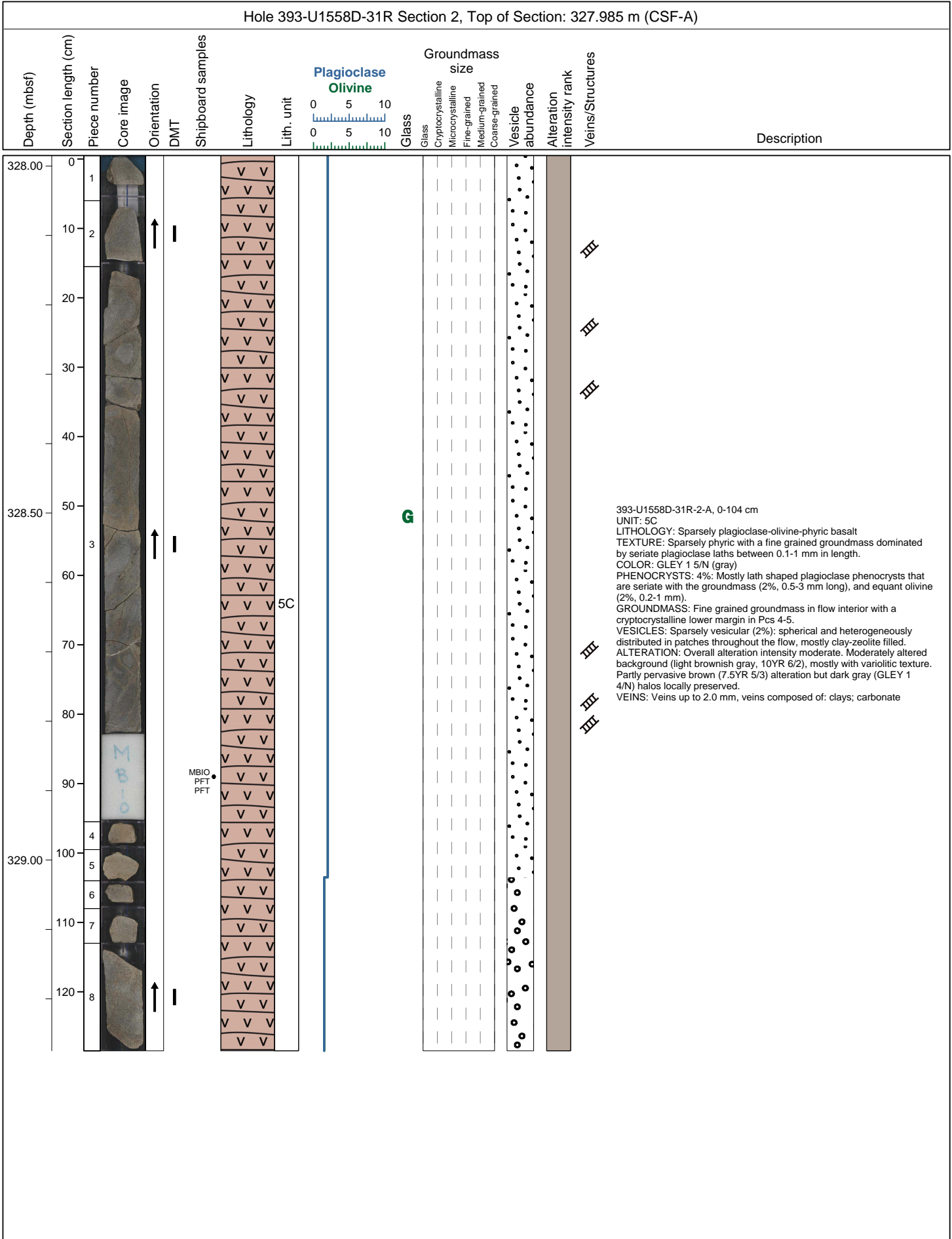


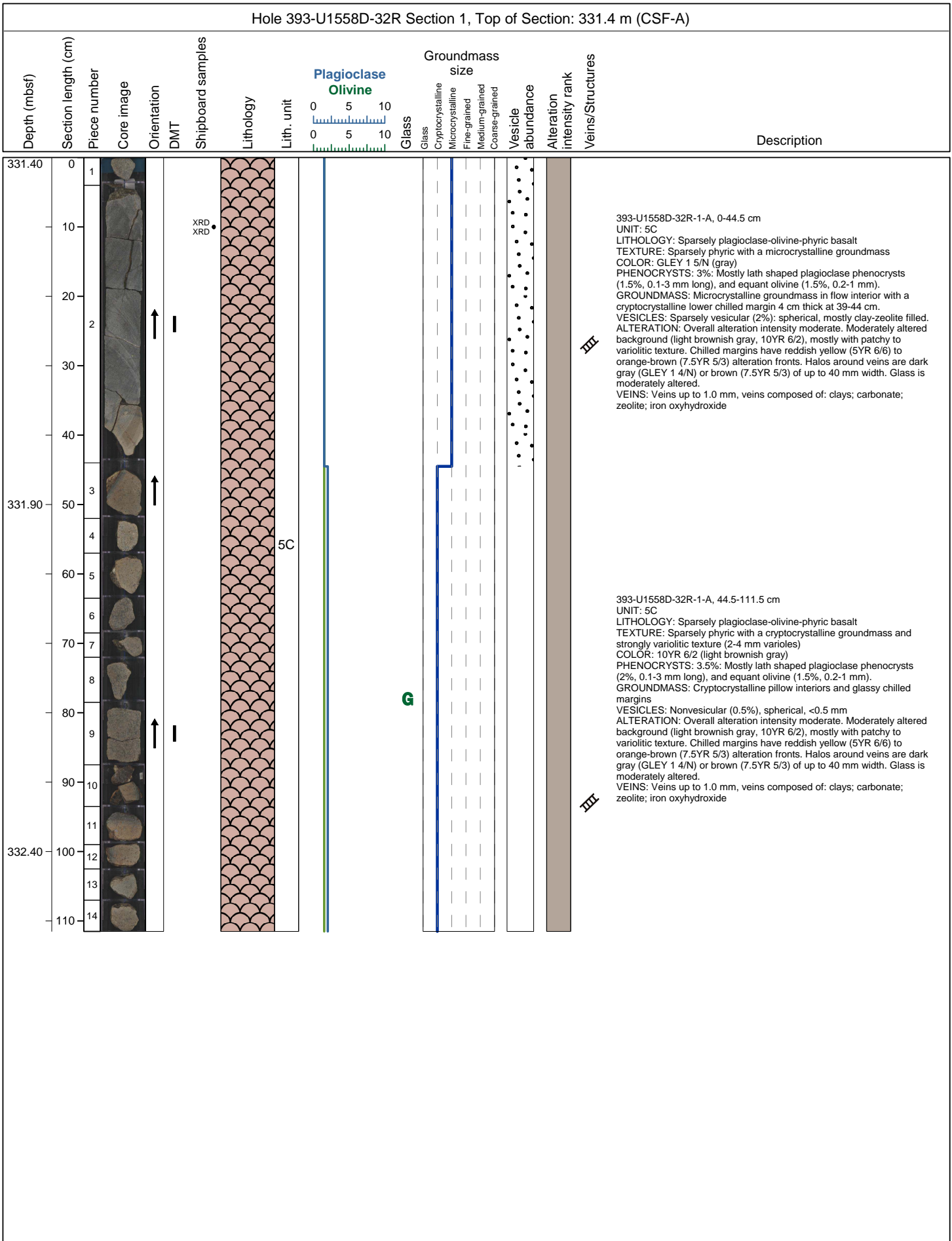
Hole 393-U1558D-30R Section 1, Top of Section: 321.7 m (CSF-A)														
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Veins/Structures	Description	
									0 5 10 0 5 10	Glass Glass Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained				
321.72	0	1						5C					<p>393-U1558D-30R-1-A, 0-75 cm                      UNIT: 5C                      LITHOLOGY: Sparsely plagioclase-olivine phyric basalt                      TEXTURE: Sparsely phyric with a cryptocrystalline groundmass                      COLOR: 10YR 6/2 (light brownish gray)                      PHENOCRYSTS: 3%. Mostly lath shaped and some subequant plagioclase phenocrysts (1.5%, 0.5-5 mm long) and equant olivine (1.5%, 0.2-3 mm).                      GROUNDMASS: Cryptocrystalline groundmass                      VESICLES: Sparsely vesicular (0.5%); 0.2% in pillow interior, up to 2% in the pillow rims (outer few cm)                      ALTERATION: Overall alteration intensity high. Moderately altered background (light brownish gray, 10YR 6/2), with patchy to variolitic texture. Chilled margins have reddish yellow (5YR 6/6) to orange-brown (7.5YR 5/3) alteration fronts. Halos around veins are brown (7.5YR 5/2). Glass is moderately altered.                      VEINS: Veins up to 1.0 mm, veins composed of: clays; zeolite</p>	
	10	2												
	20	3												
321.92	30	4												
	40	5												
322.12	50	6												
	60	7												
	70	8												
322.32	80	9												
	90	10												
	100	11												
	110	12												

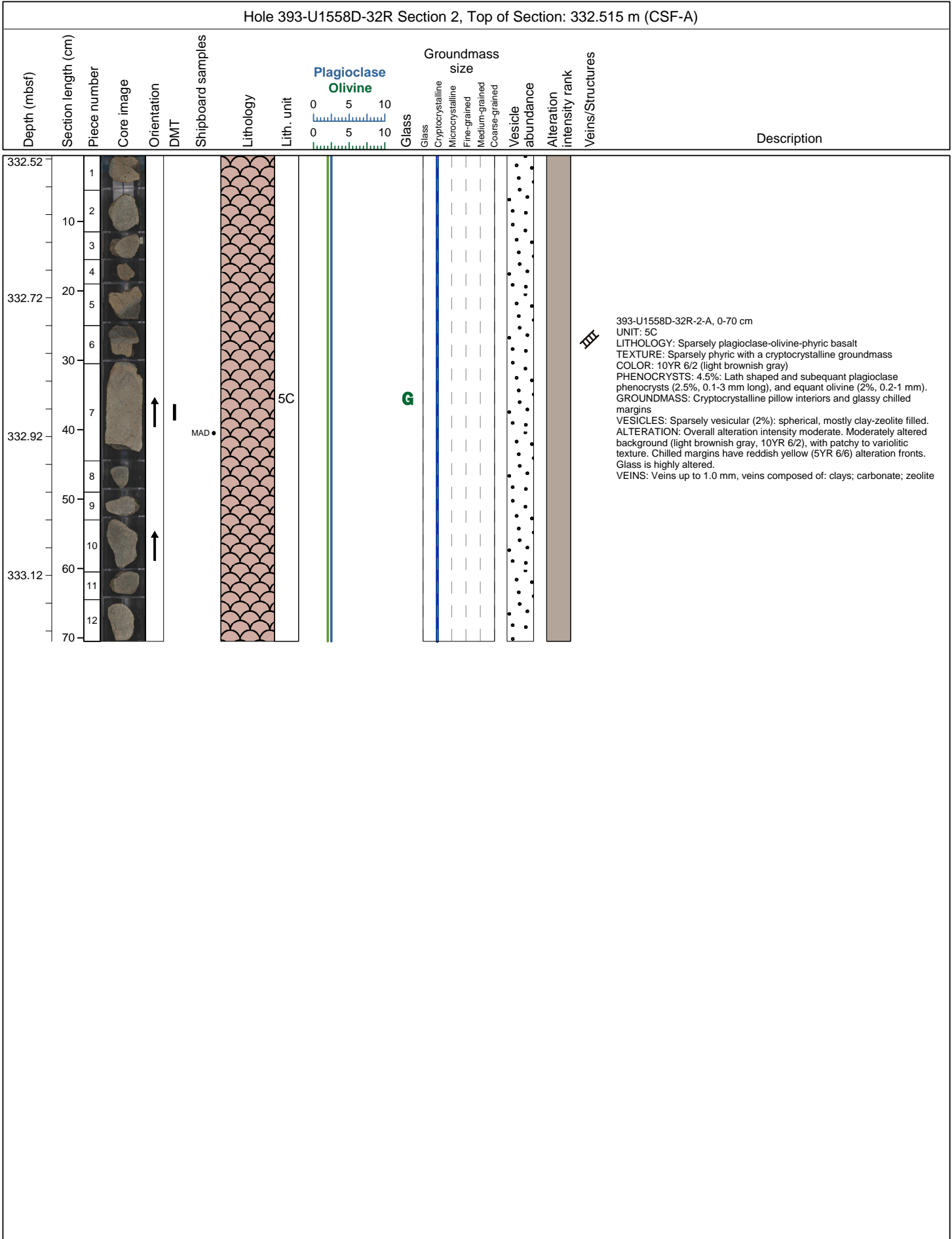


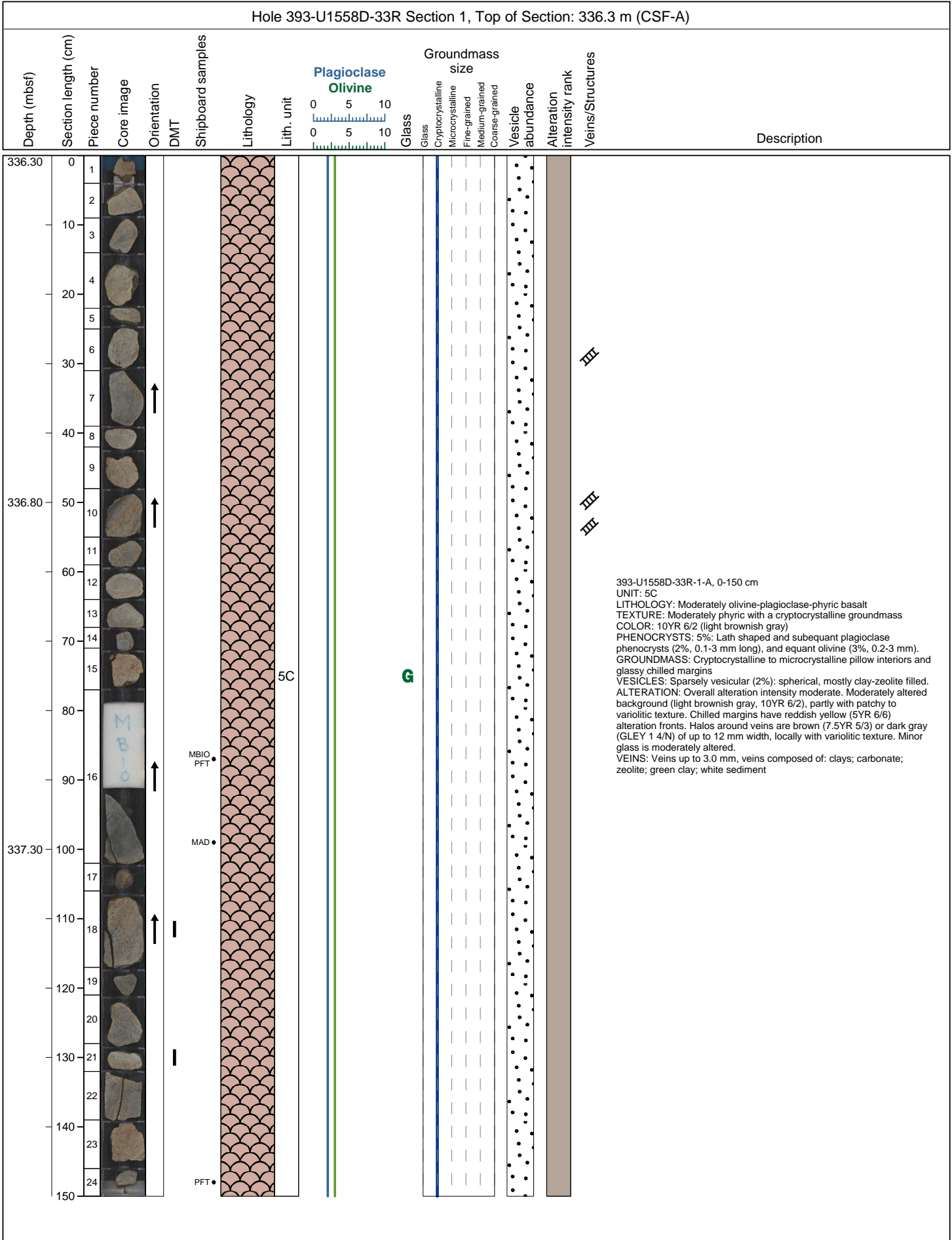
Hole 393-U1558D-31R Section 1, Top of Section: 326.6 m (CSF-A)

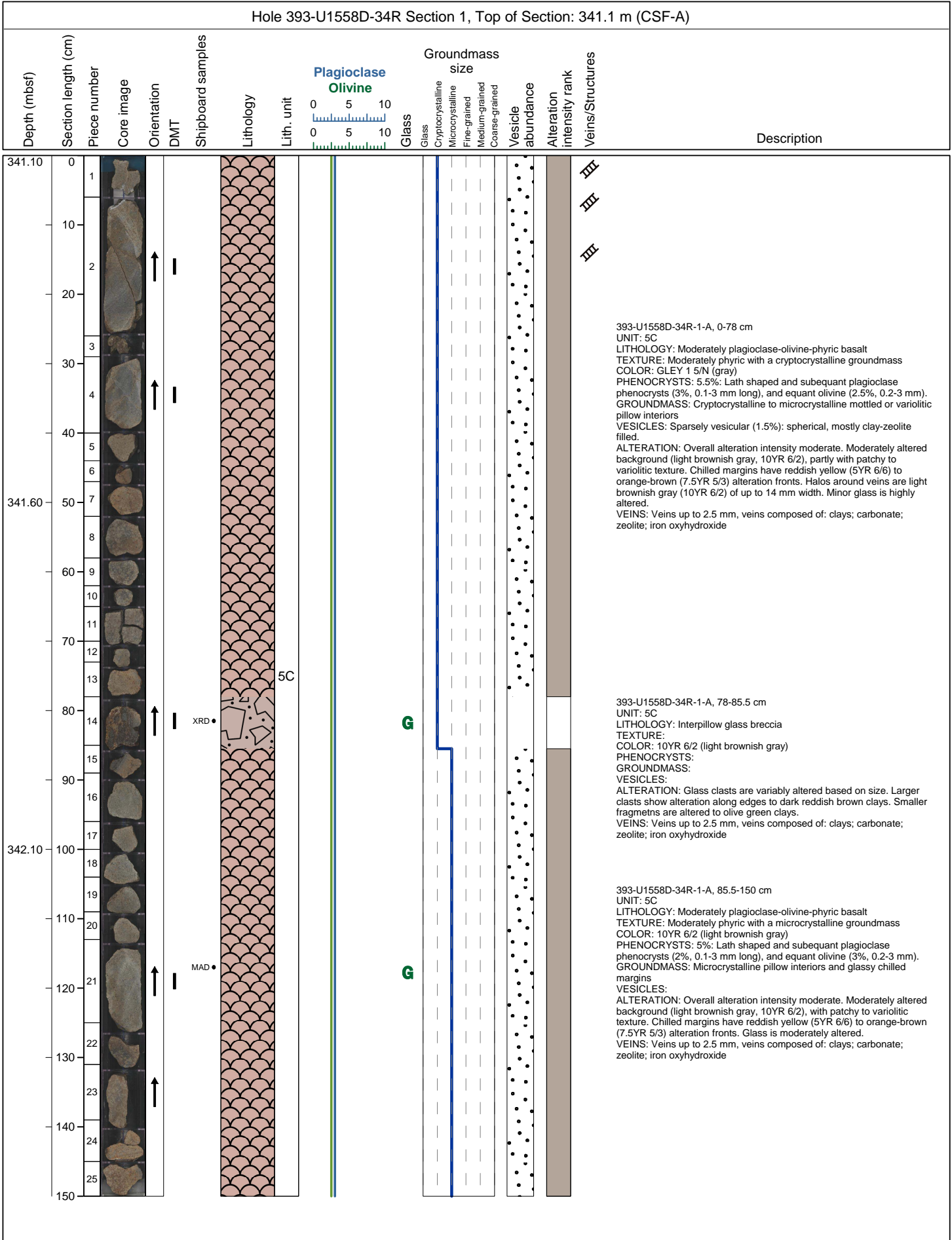
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase		Olivine	Groundmass size					Vesicle abundance	Alteration intensity rank	Veins/Structures	Description				
									0	10		Glass	Cryptocrystalline	Microcrystalline	Fine-grained	Medium-grained					Coarse-grained			
326.60	0	1		↑		I		5C	0		G							III	<p>393-U1558D-31R-1-A, 0-10.5 cm UNIT: 5C LITHOLOGY: Sparsely plagioclase-olivine-phyric basalt TEXTURE: Sparsely phyric with a cryptocrystalline groundmass and strongly variolitic texture (3-5 mm varioles) COLOR: 10YR 6/2 (light brownish gray) PHENOCRYSTS: 3%: Mostly lath shaped and some subequant plagioclase phenocrysts (1.5%, 0.5-5 mm long) and equant olivine (1.5%, 0.2-3 mm). GROUNDMASS: Cryptocrystalline groundmass VESICLES: Sparsely vesicular (0.5%): 0.2% in pillow interior, up to 2% in the pillow rims (outer few cm) ALTERATION: Overall alteration intensity high. Moderately altered background (light brownish gray, 10YR 6/2), with patchy to variolitic texture. Chilled margins have reddish yellow (5YR 6/6) alteration fronts with variolitic texture. VEINS: Veins up to 4.0 mm, veins composed of: clays; carbonate; zeolite; white sediment</p>					
	2																							
	3																							
	4																							
	5																							
	10	6		↑		I		5C	0		G							III	<p>393-U1558D-31R-1-A, 10.5-12.5 cm UNIT: 5C LITHOLOGY: Interpillow basaltic breccia TEXTURE: COLOR: 5Y R 5/6 (yellowish red) PHENOCRYSTS: GROUNDMASS: VESICLES: ALTERATION: Clasts variably altered with yellowish red to reddish brown clays VEINS: Veins up to 4.0 mm, veins composed of: clays; carbonate; zeolite; white sediment</p>					
	11																							
	12																							
	13																							
327.10	50	9		↑		I		5C	0		G							III	<p>393-U1558D-31R-1-A, 12.5-27 cm UNIT: 5C LITHOLOGY: Sparsely plagioclase-olivine-phyric basalt TEXTURE: Sparsely phyric with a cryptocrystalline groundmass and strongly variolitic texture (3-5 mm varioles) COLOR: 5Y R 5/6 (yellowish red) PHENOCRYSTS: 3.5%: Mostly lath shaped and some subequant plagioclase phenocrysts (2%, 0.5-5 mm long) and equant olivine (1.5%, 0.2-3 mm). GROUNDMASS: Cryptocrystalline groundmass VESICLES: Sparsely vesicular (0.5%): 0.2% in pillow interior, up to 2% in the pillow rims (outer few cm) ALTERATION: Overall alteration intensity high. Moderately altered background (light brownish gray, 10YR 6/2). Chilled margins have reddish yellow (5YR 6/6) alteration fronts with variolitic texture. VEINS: Veins up to 4.0 mm, veins composed of: clays; carbonate; zeolite; white sediment</p>					
	51																							
	52																							
	53																							
	54																							
	60	14		↑		I		5C	0		G							III	<p>393-U1558D-31R-1-A, 27-36 cm UNIT: 5C LITHOLOGY: Interpillow basaltic breccia TEXTURE: COLOR: 5Y R 5/6 (yellowish red) PHENOCRYSTS: GROUNDMASS: VESICLES: ALTERATION: Clasts variably altered, small fragments altered to yellowish red clays. Larger clasts altered to yellowish red or pinkish gray halos VEINS: Veins up to 4.0 mm, veins composed of: clays; carbonate; zeolite; white sediment</p>					
	61																							
	62																							
	63																							
	64																							
	70	17		↑		I		5C	0		G							III	<p>393-U1558D-31R-1-A, 36-72 cm UNIT: 5C LITHOLOGY: Sparsely plagioclase-olivine-phyric basalt TEXTURE: Sparsely phyric with a cryptocrystalline groundmass COLOR: 10YR 6/2 (light brownish gray) PHENOCRYSTS: 3.5%: Mostly lath shaped and some subequant plagioclase phenocrysts (2%, 0.5-5 mm long) and equant olivine (1.5%, 0.2-3 mm). GROUNDMASS: Cryptocrystalline groundmass VESICLES: Sparsely vesicular (0.5%): 0.2% in pillow interior, up to 2% in the pillow rims (outer few cm) ALTERATION: Overall alteration intensity high. Moderately altered background (light brownish gray, 10YR 6/2), partly with patchy to variolitic texture. Chilled margins have reddish yellow (5YR 6/6) alteration fronts with variolitic texture. Glass is moderately altered. VEINS: Veins up to 4.0 mm, veins composed of: clays; carbonate; zeolite; white sediment</p>					
	71																							
	72																							
	73																							
	74																							
	80	19		↑		I		5C	0		G							III	<p>393-U1558D-31R-1-A, 72-138.5 cm UNIT: 5C LITHOLOGY: Sparsely plagioclase-olivine-phyric basalt TEXTURE: Sparsely phyric with a fine grained groundmass dominated by seriate plagioclase laths between 0.1-1 mm in length. COLOR: GLEY 1 5/N (gray) PHENOCRYSTS: 4%: Mostly lath shaped plagioclase phenocrysts that are seriate with the groundmass (2%, 0.5-3 mm long), and equant olivine (2%, 0.2-1 mm). GROUNDMASS: Fine grained groundmass in flow interior with a micro- to cryptocrystalline rim 4 cm thick in Pc 14. VESICLES: Sparsely vesicular (2%): spherical and heterogeneously distributed in patches throughout the flow, mostly clay-zeolite filled. ALTERATION: Overall alteration intensity high. Moderately altered background (light brownish gray, 10YR 6/2), partly with patchy to variolitic texture. Chilled margins have reddish yellow (5YR 6/6) alteration fronts with variolitic texture. Glass is moderately altered. VEINS: Veins up to 4.0 mm, veins composed of: clays; carbonate; zeolite; white sediment</p>					
	81																							
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	84																							

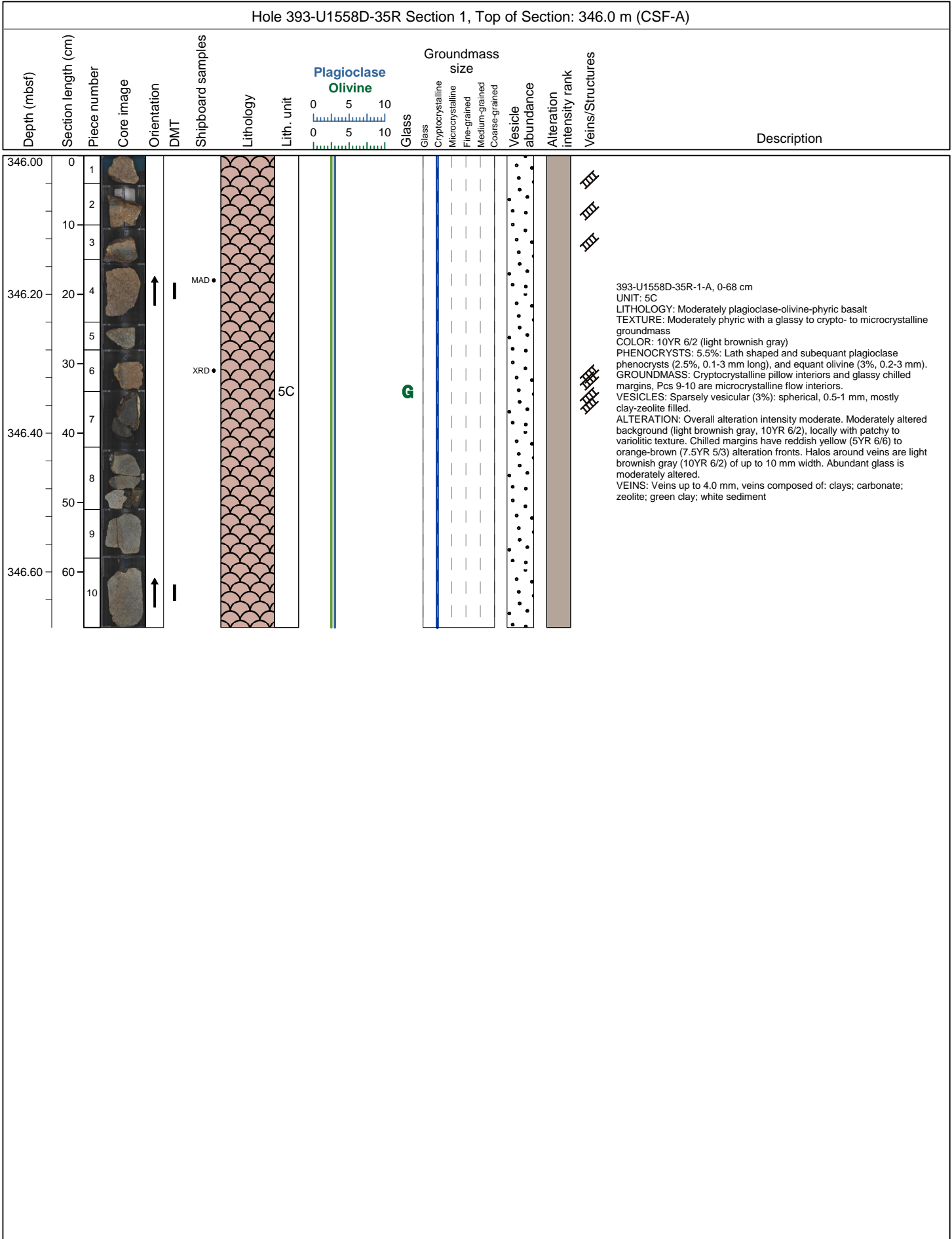


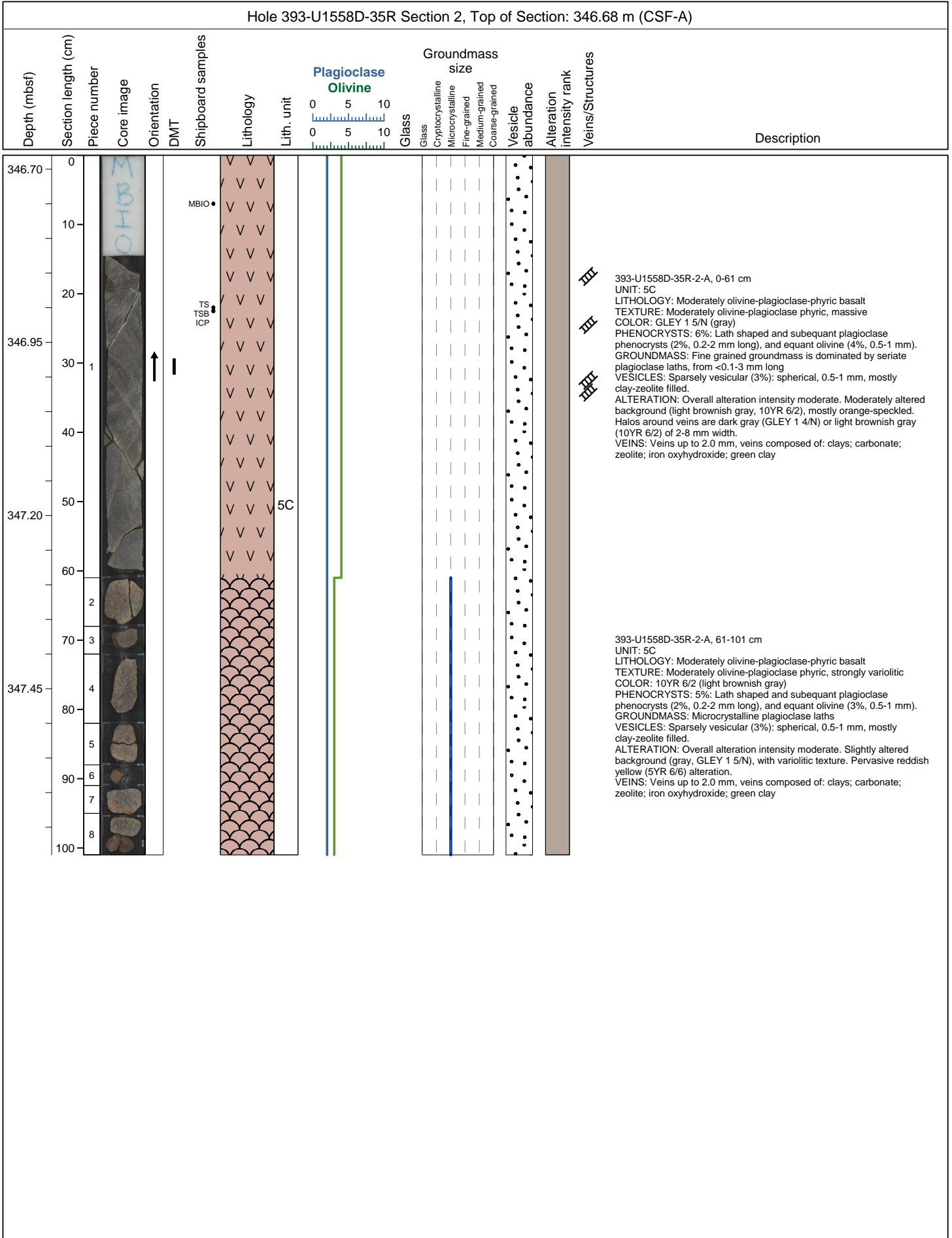




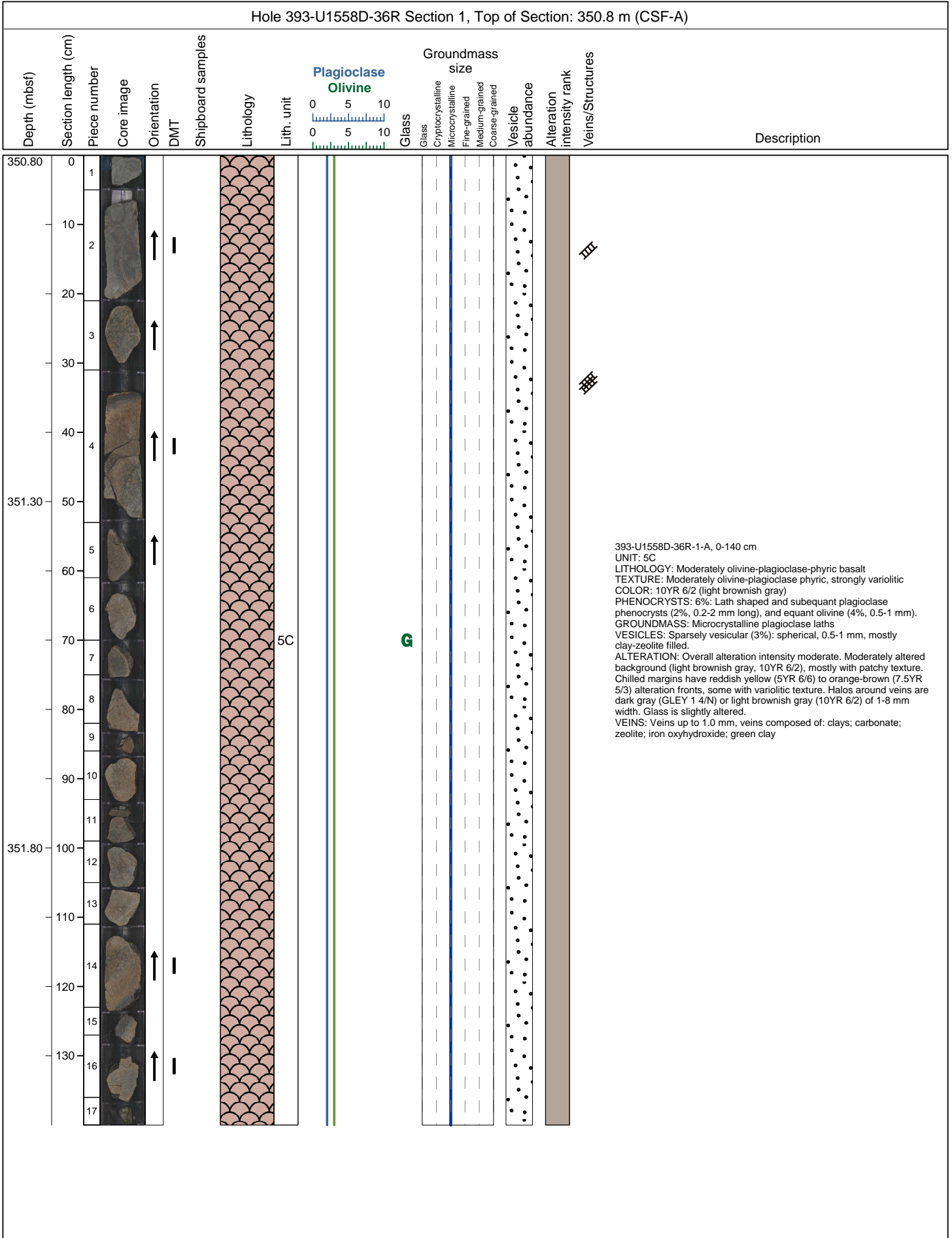


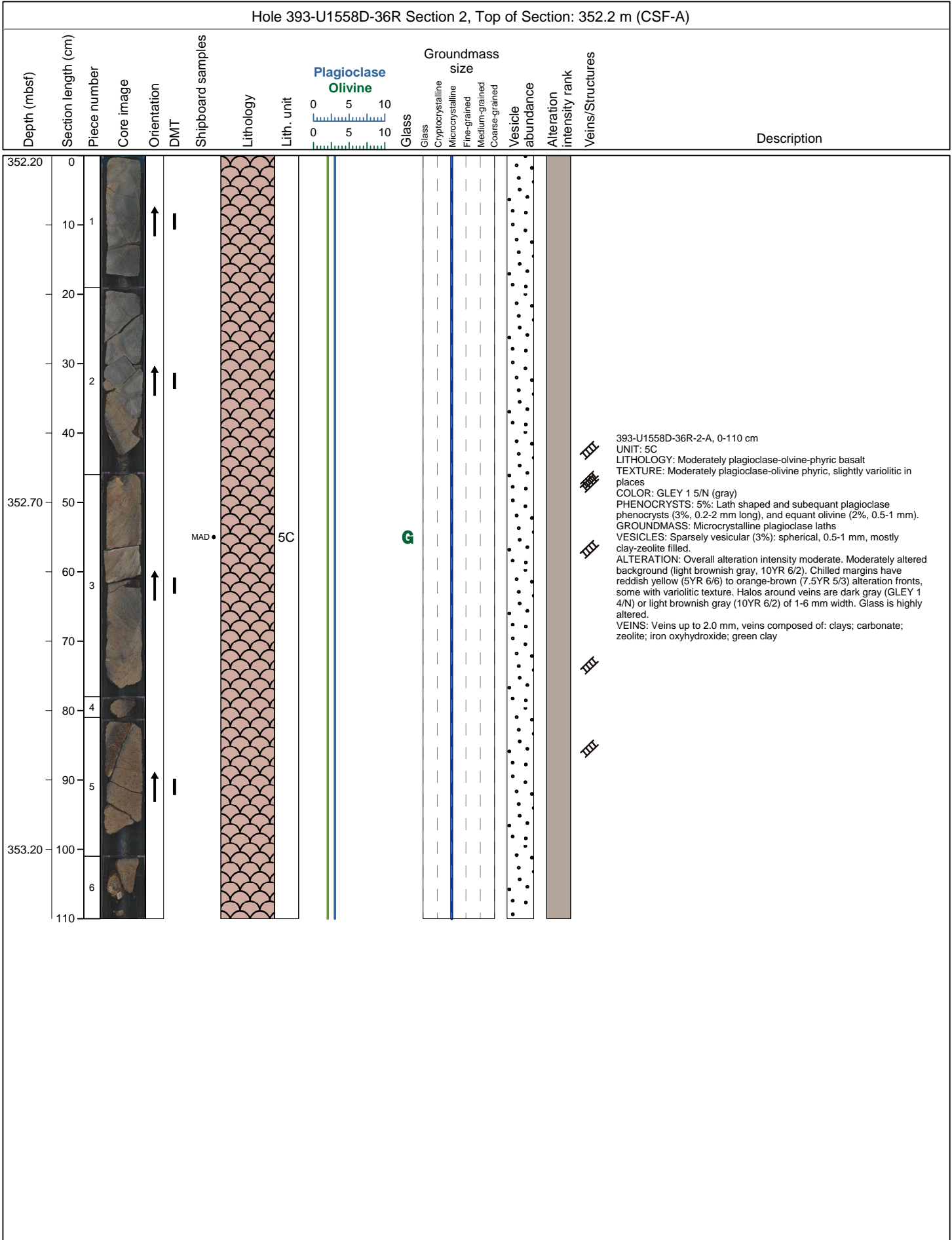


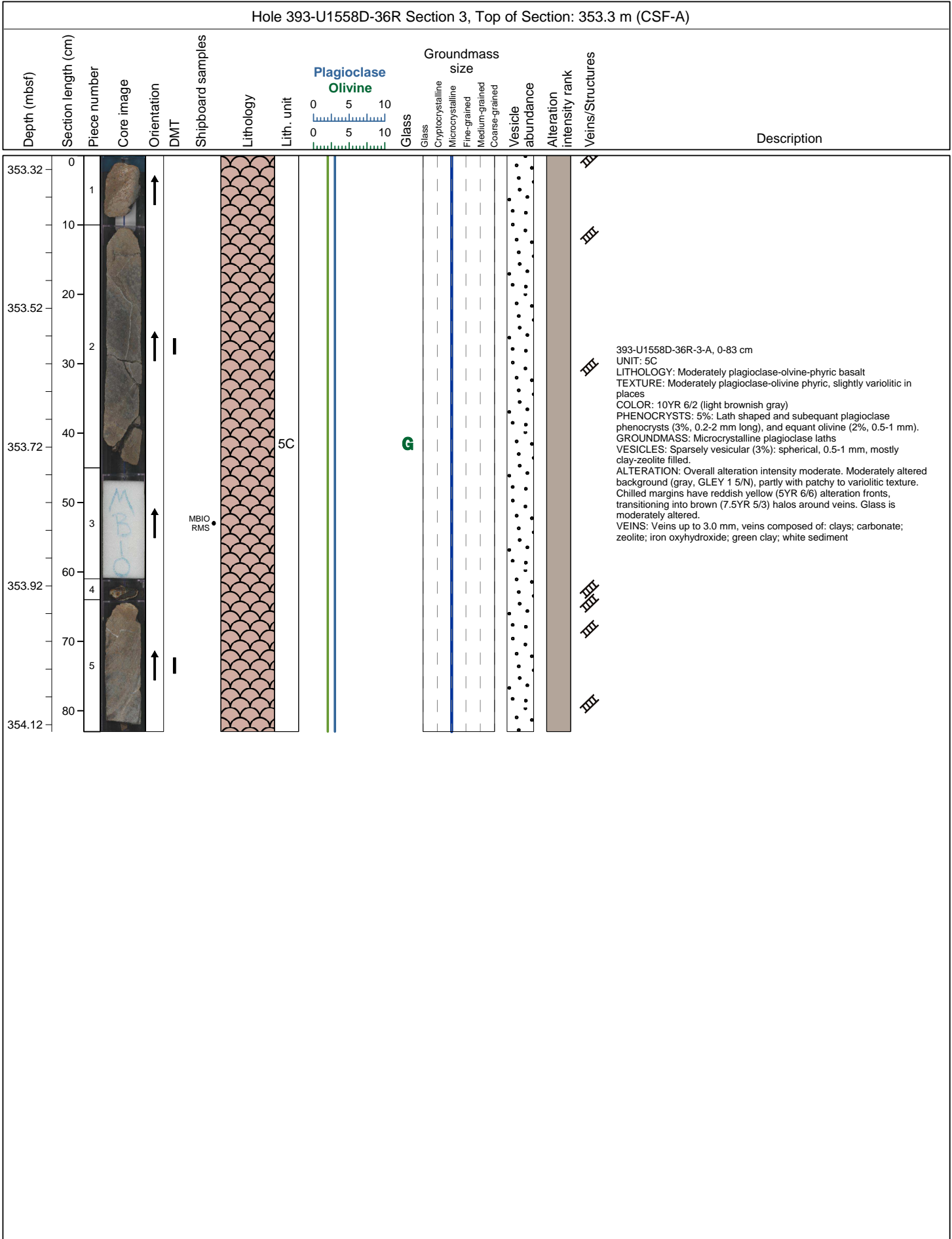


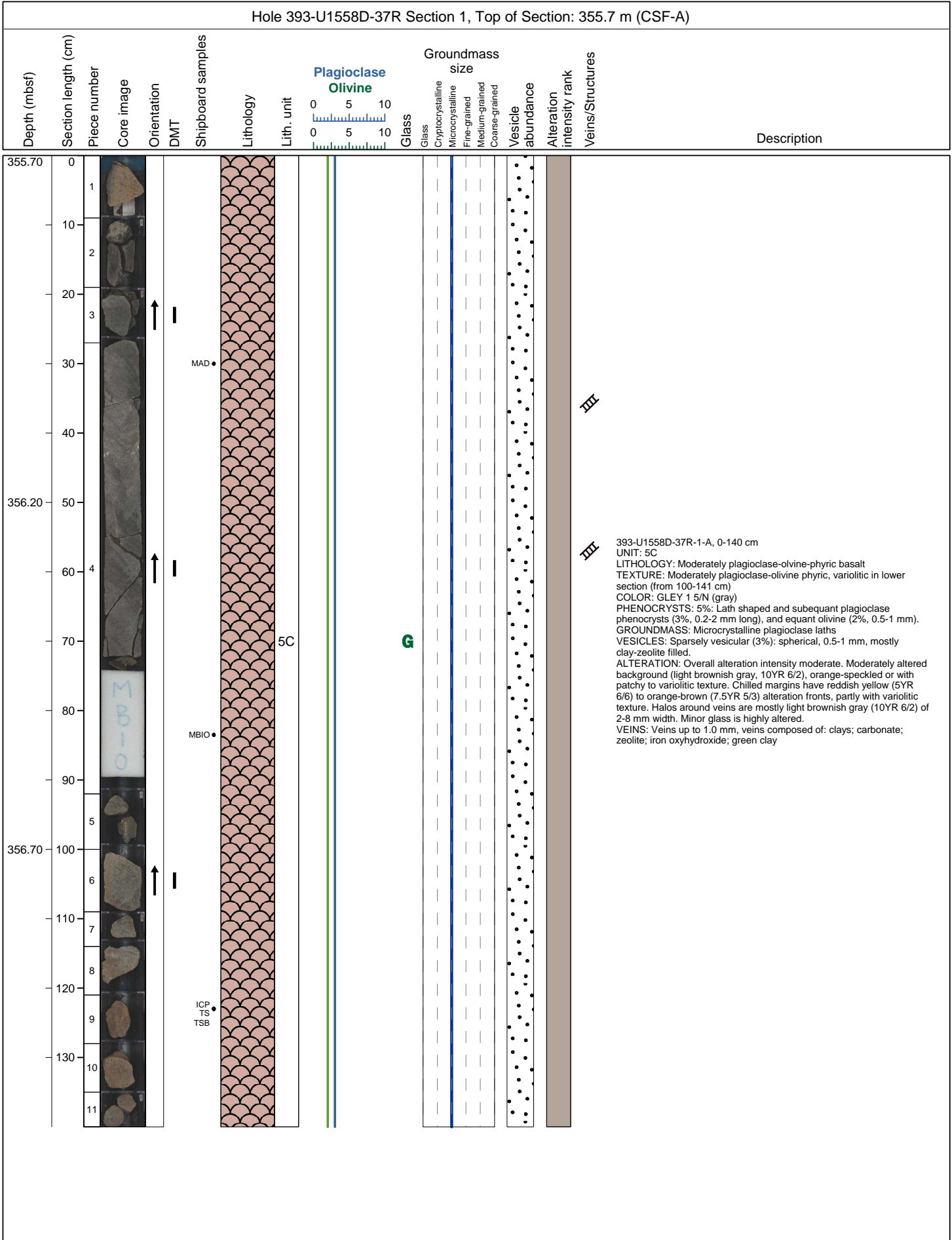


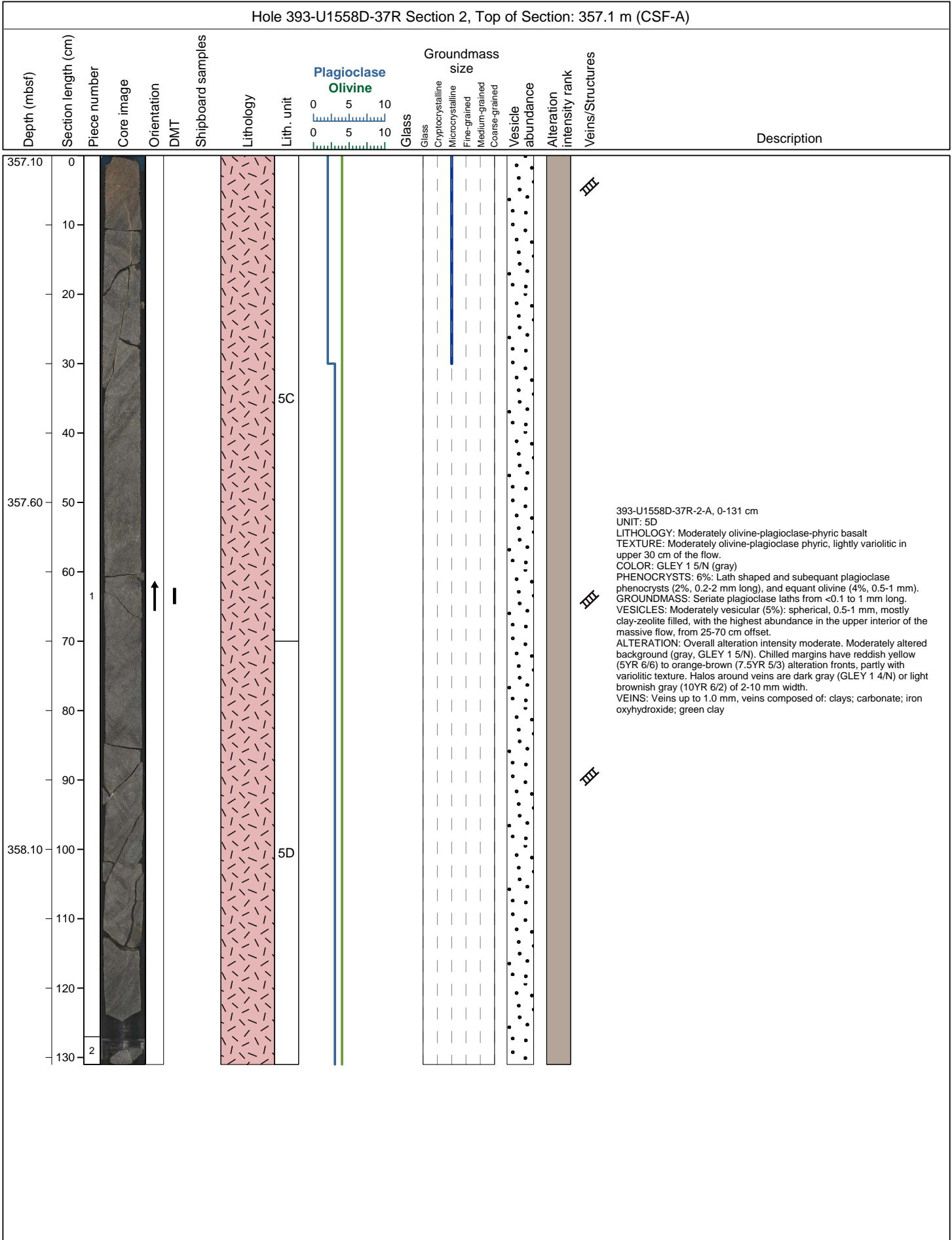


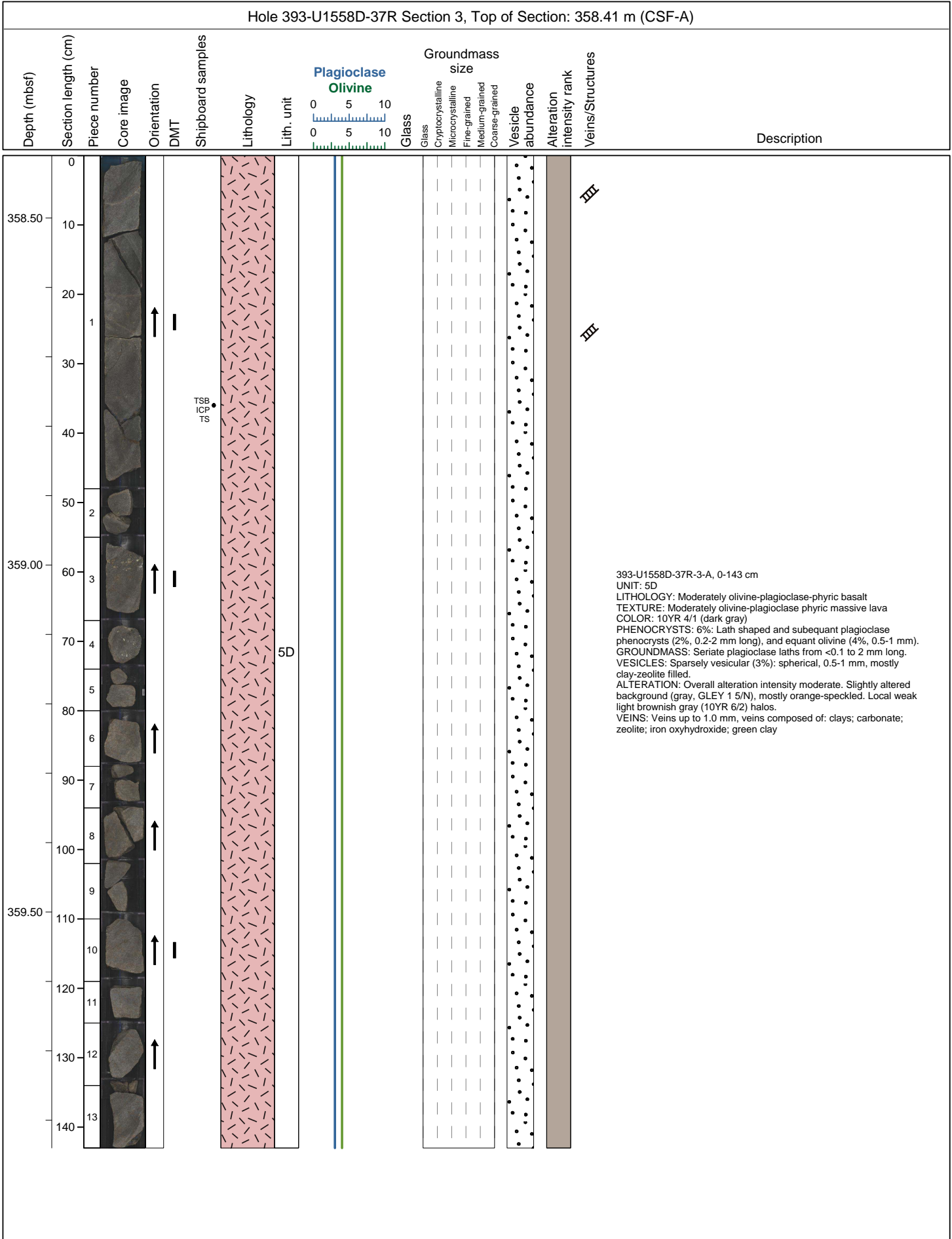


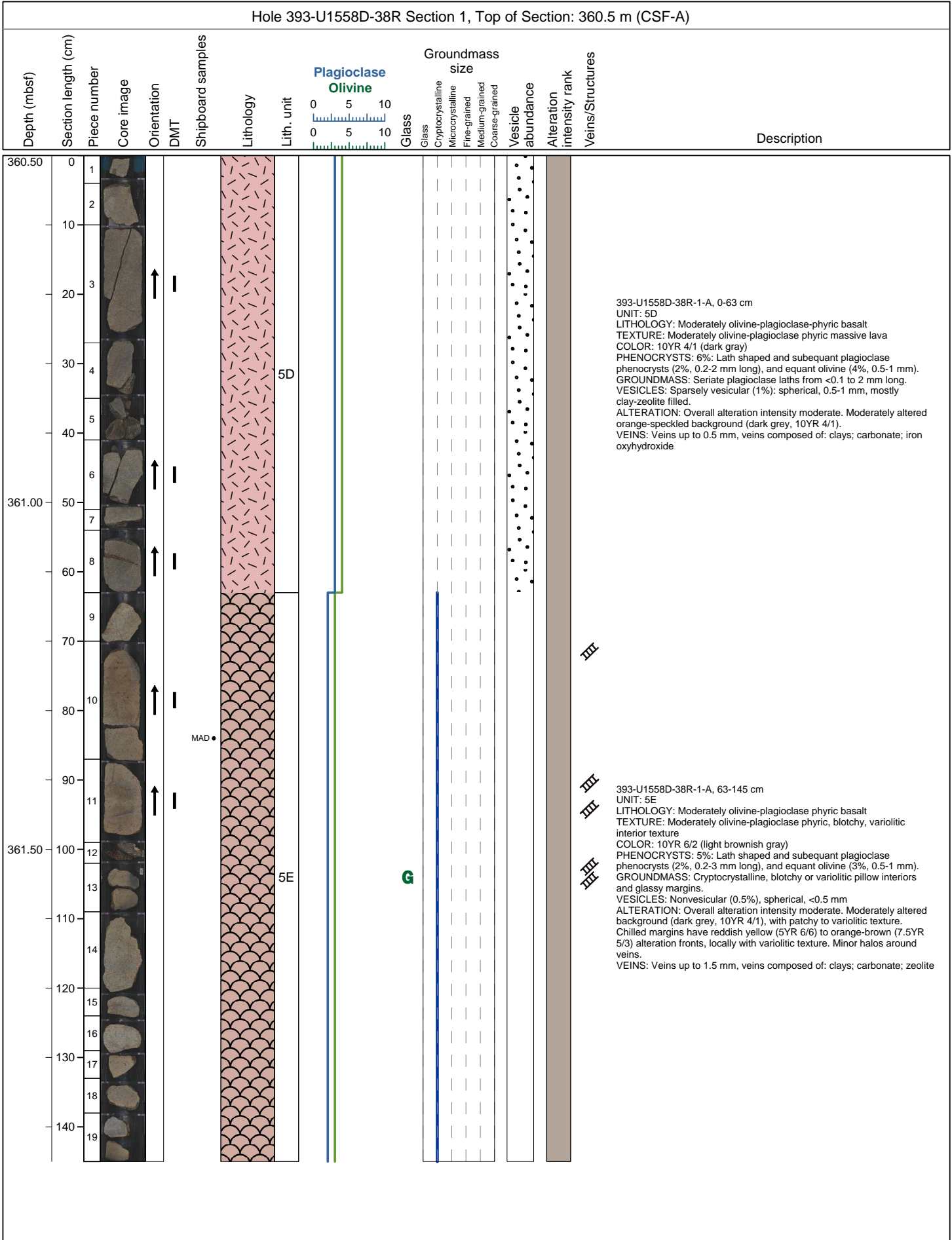













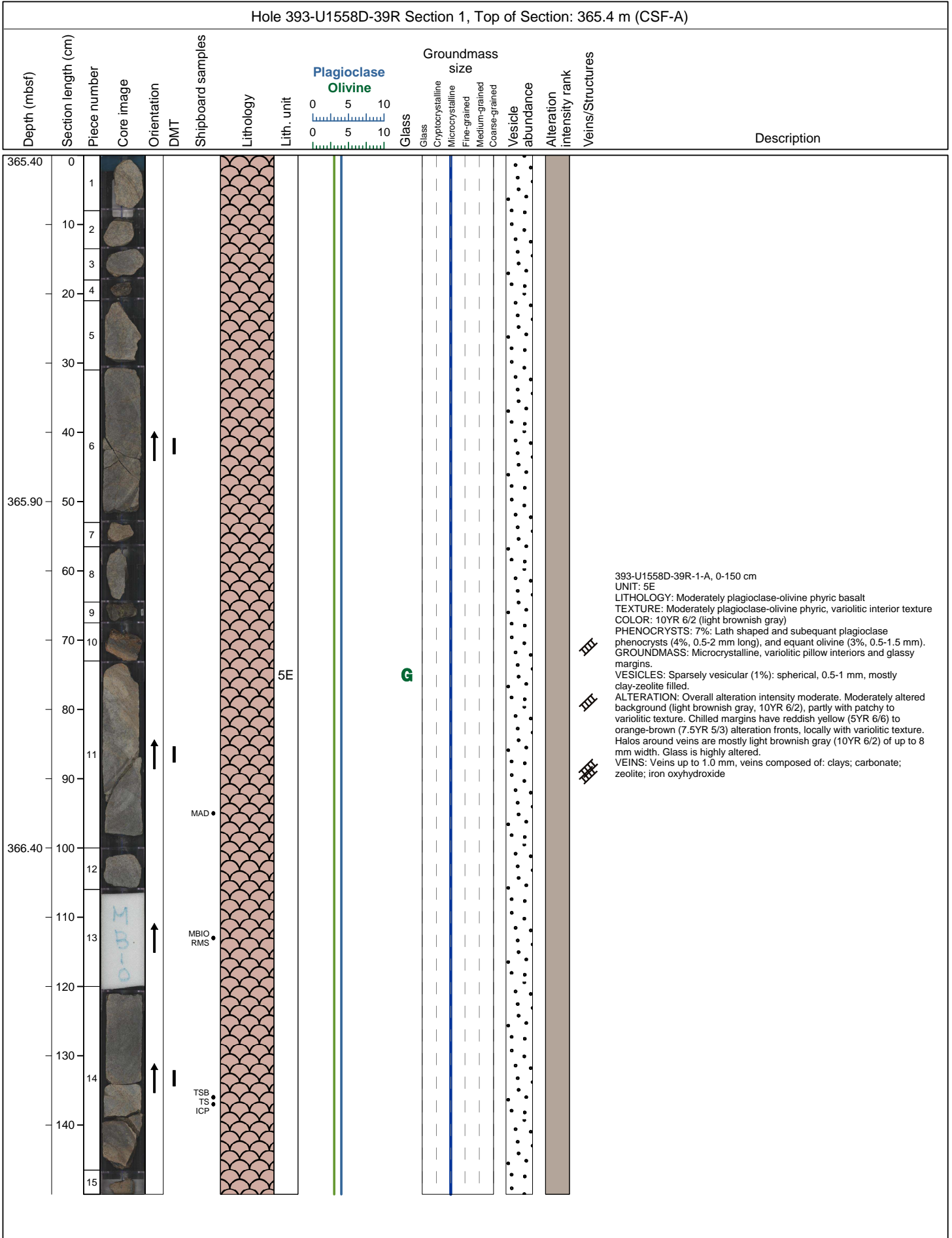


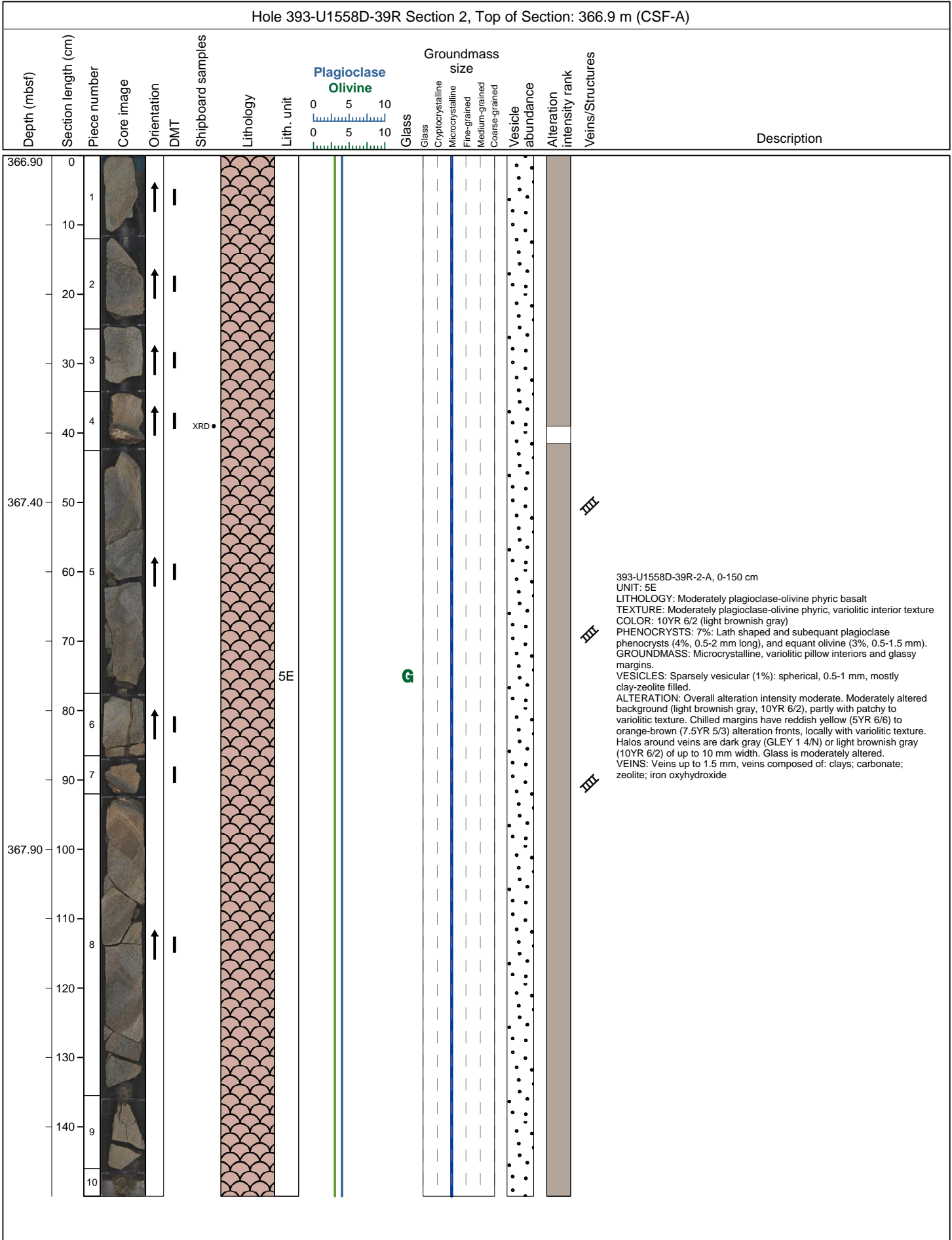




Hole 393-U1558D-38R Section 2, Top of Section: 361.95 m (CSF-A)															
Depth (mbsf)	Section length (cm)	Piece number	Core image	Orientation	DMT	Shipboard samples	Lithology	Lith. unit	Plagioclase Olivine	Glass	Groundmass size	Vesicle abundance	Alteration intensity rank	Veins/Structures	Description
									0 5 10		Cryptocrystalline Microcrystalline Fine-grained Medium-grained Coarse-grained				
361.96	0			↑											
	1														
	10														
362.16	20	2		↑											
	30	3		↑											
362.36	40	4		↑											
	50	5		↑				5E		G					
	60	7		↑											
362.56	70	9		↑											
	80			↑											
															<p>393-U1558D-38R-2-A, 0-80 cm                      UNIT: 5E                      LITHOLOGY: Moderately olivine-plagioclase phyric basalt                      TEXTURE: Moderately olivine-plagioclase phyric, variolitic interior texture                      COLOR: 10YR 6/2 (light brownish gray)                      PHENOCRYSTS: 6%: Lath shaped and subequant plagioclase phenocrysts (3%, 0.2-2 mm long), and equant olivine (3%, 0.5-1 mm).                      GROUNDMASS: Cryptocrystalline, variolitic pillow interiors and glassy margins.                      VESICLES: Sparsely vesicular (2%): spherical, 0.5-1 mm, mostly clay-zeolite filled.                      ALTERATION: Overall alteration intensity moderate. Moderately altered background (light brownish gray, 10YR 6/2), with patchy to variolitic texture. Chilled margins have reddish yellow (5YR 6/6) to orange-brown (7.5YR 5/3) alteration fronts, partly with patchy texture. Glass is moderately altered.                      VEINS: Veins up to 1.5 mm, veins composed of: clays; carbonate; zeolite; iron oxyhydroxide</p>

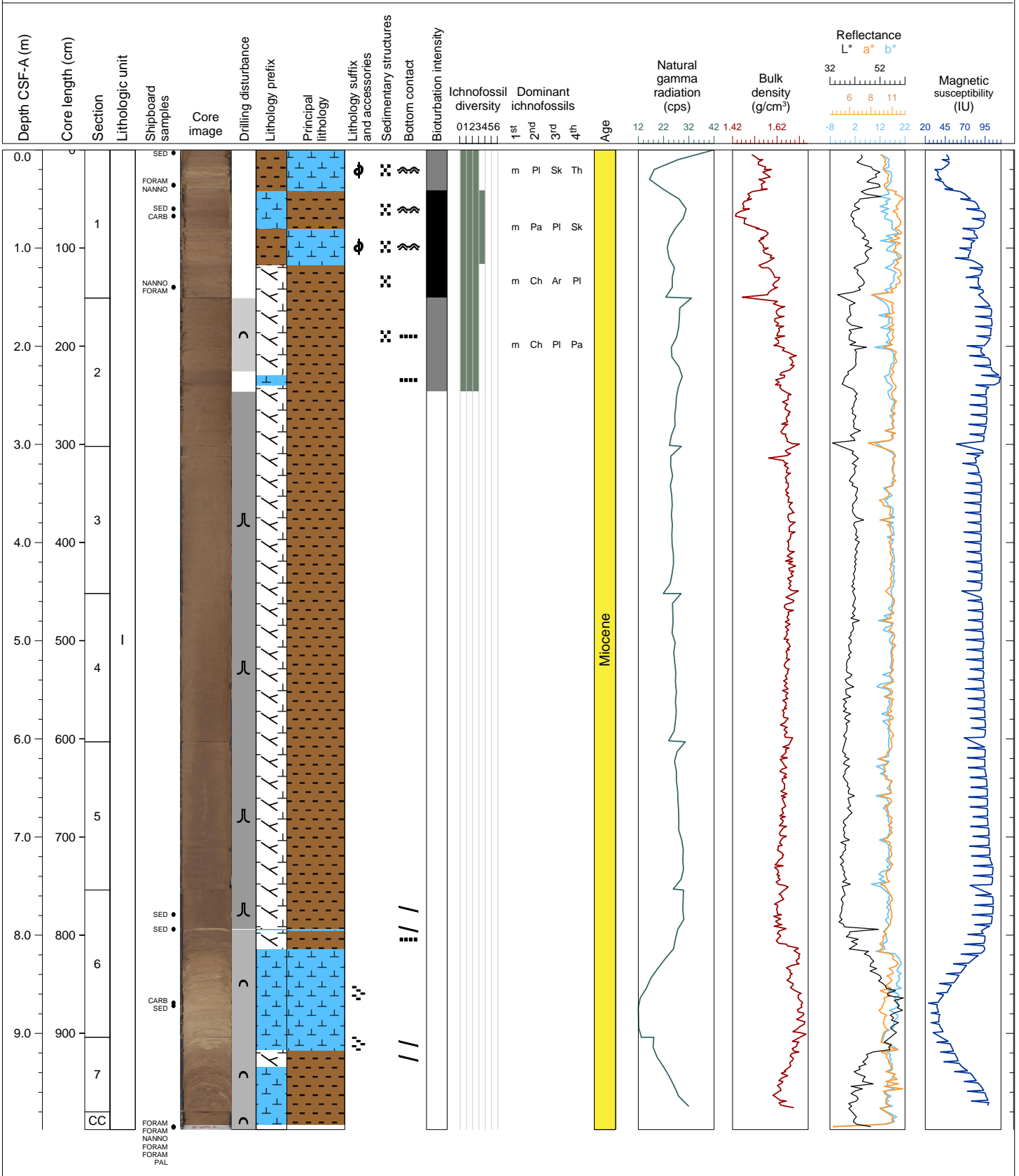






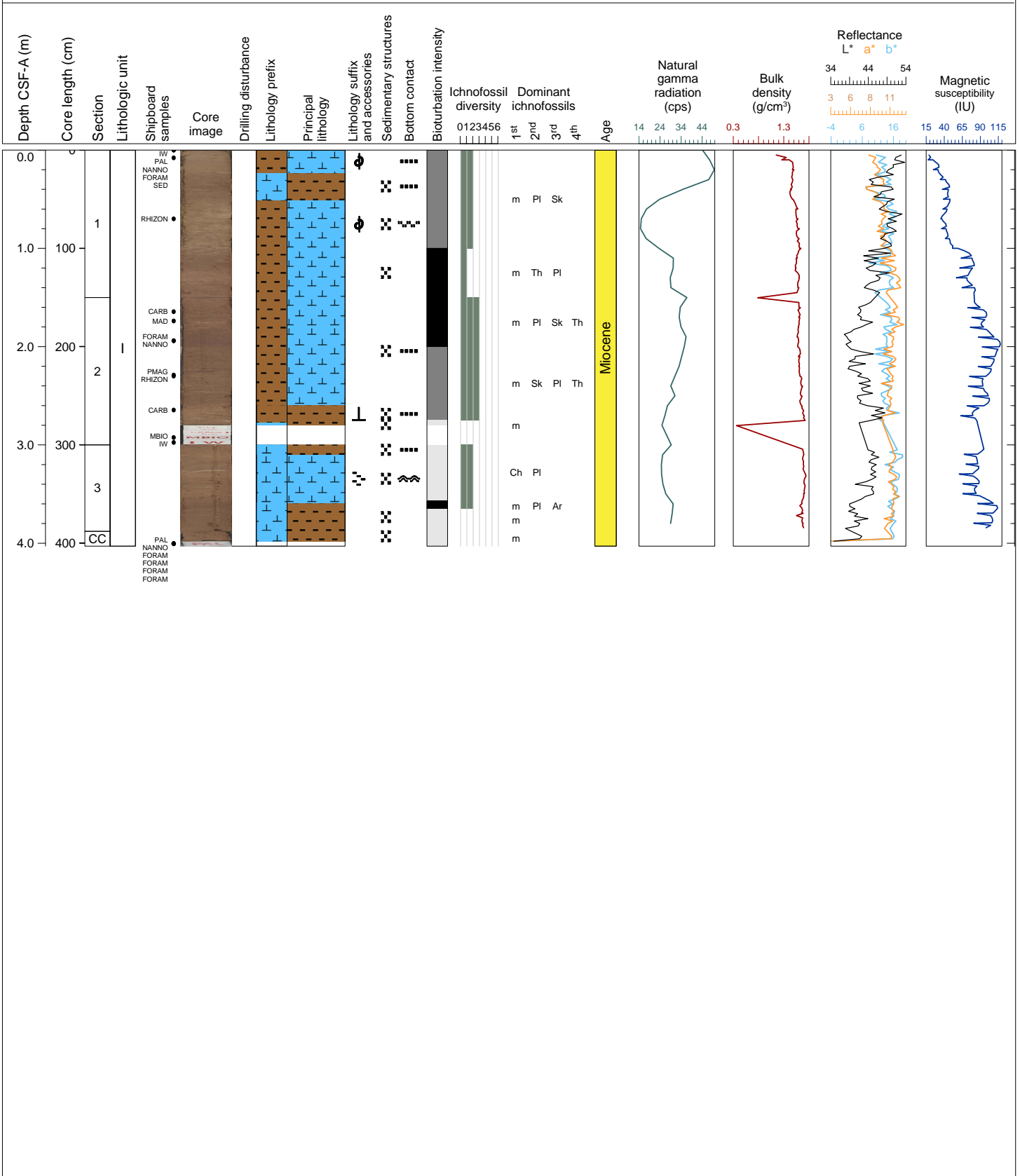
Hole 393-U1558E Core 1H, Interval 0.0-9.98 m (CSF-A)

Core 1 consists of nannofossil-rich clay and sponge spicule and nannofossil-rich clay. From the top of section 2 to the bottom of the core, drilling disturbance are severe to destroyed by flow in and uparching of the sediments.



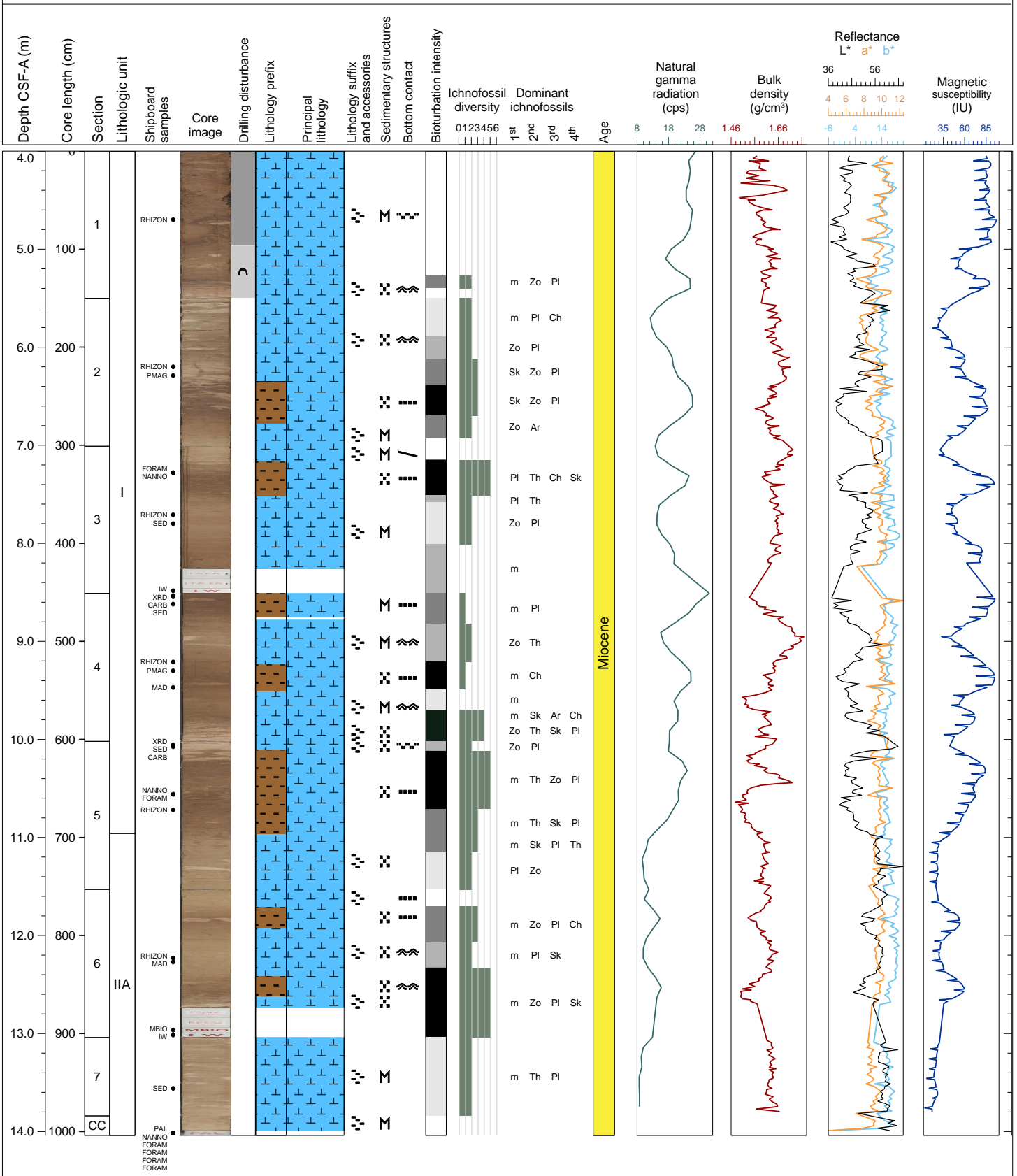
Hole 393-U1558F Core 1H, Interval 0.0-4.03 m (CSF-A)

Core 1H in Hole U1558F contains mostly light brown (5YR 6/4) to reddish brown (5YR 5/3) clayey nannofossil and brown (7.5YR 5/4) nannofossil-rich clay. Mottling is present throughout the core except for the upper 23 cm. Contacts between the different lithologies is gradational. Sedimentary structures are limited to mottling, which includes biogenic mottling. In addition, distinct ichnofossils were identified between 393-U1558F-1H-1, 0 cm and 393-U1558F-1H-2, 125 cm that included Skolithos, Planolites, and Thalassinoides. Maximum diversity was 3 and maximum ichnofossil diameter ranged from 10 to 13 mm. In 393-U1558F-2, 50 cm and 125 cm Skolithos, Planolites, and Thalassinoides were observed. The diversity was 3 and the maximum diameter ranged from 10 to 13 mm. In section 3 between 0 cm to 65 cm, Chondrites, Planolites, and Arenicolites were identified. The diversity was 2 and the maximum diameter was 4 mm. No drilling disturbances were observed.



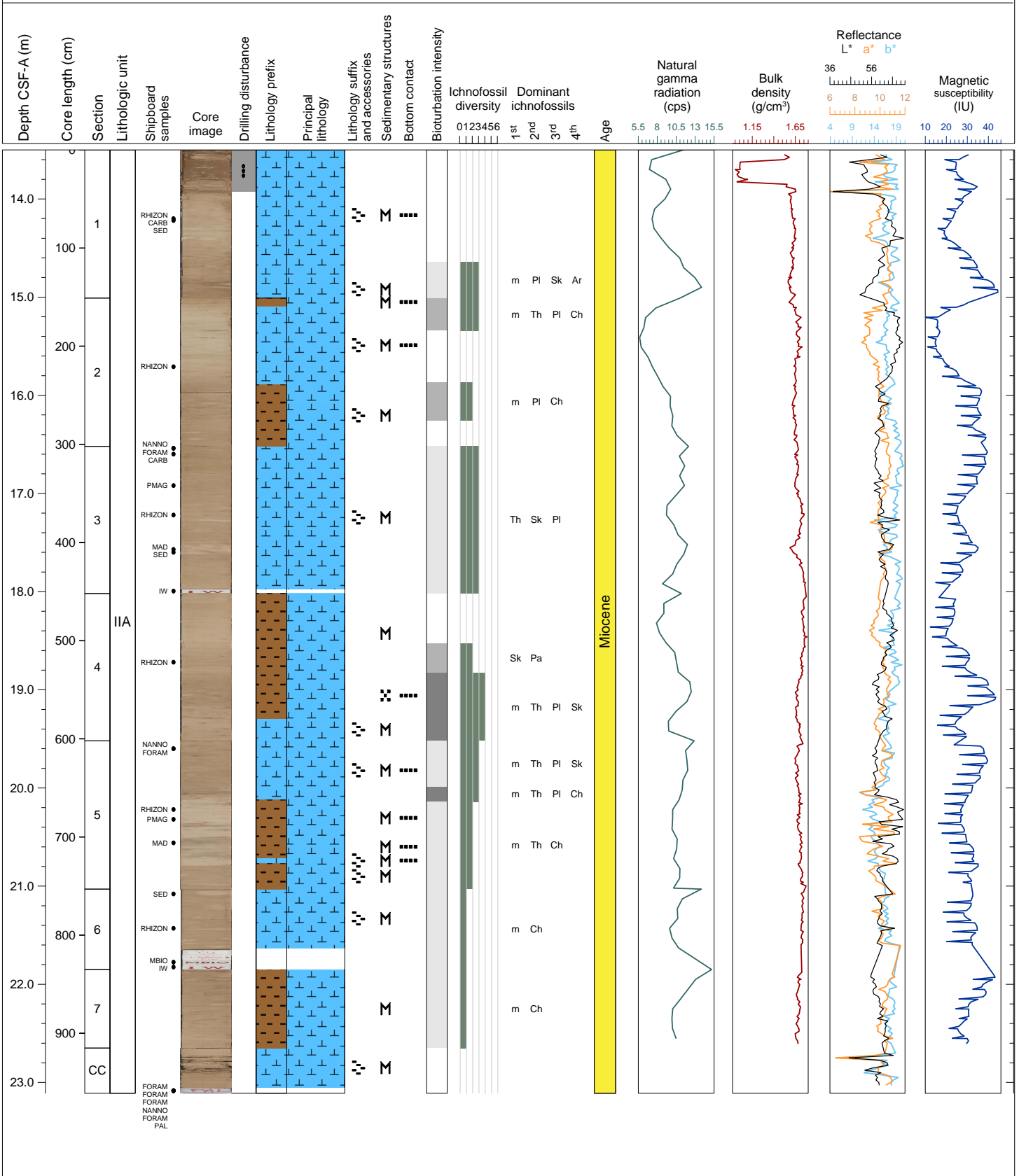
Hole 393-U1558F Core 2H, Interval 4.0-14.04 m (CSF-A)

Core 2 in Hole U1558F consists of alternating decimeter thick beds of brown (7.5yr 5/4) clayey nanfossil ooze and pink (7.5YR 7/3) and light brown (7.5yr 6/4) nanfossil ooze with clay. Mottling and massive bedding are predominant sedimentary structures. In addition, the bioturbation index ranged from sparse to moderate with biogenic mottling observed. Distinct ichnofossils were identified throughout this core and include Skolithos, Zoophycos, Planolites, Chondrites, Thalassinoides, and Arenicolites. The diversity ranges between 1 and 5 and the maximum diameter ranges from 2 to 24 mm. Drilling disturbances were restricted to the first section in which there was mid core flow in to cm and up arching for the rest of the section. Otherwise, no drilling disturbances were observed.



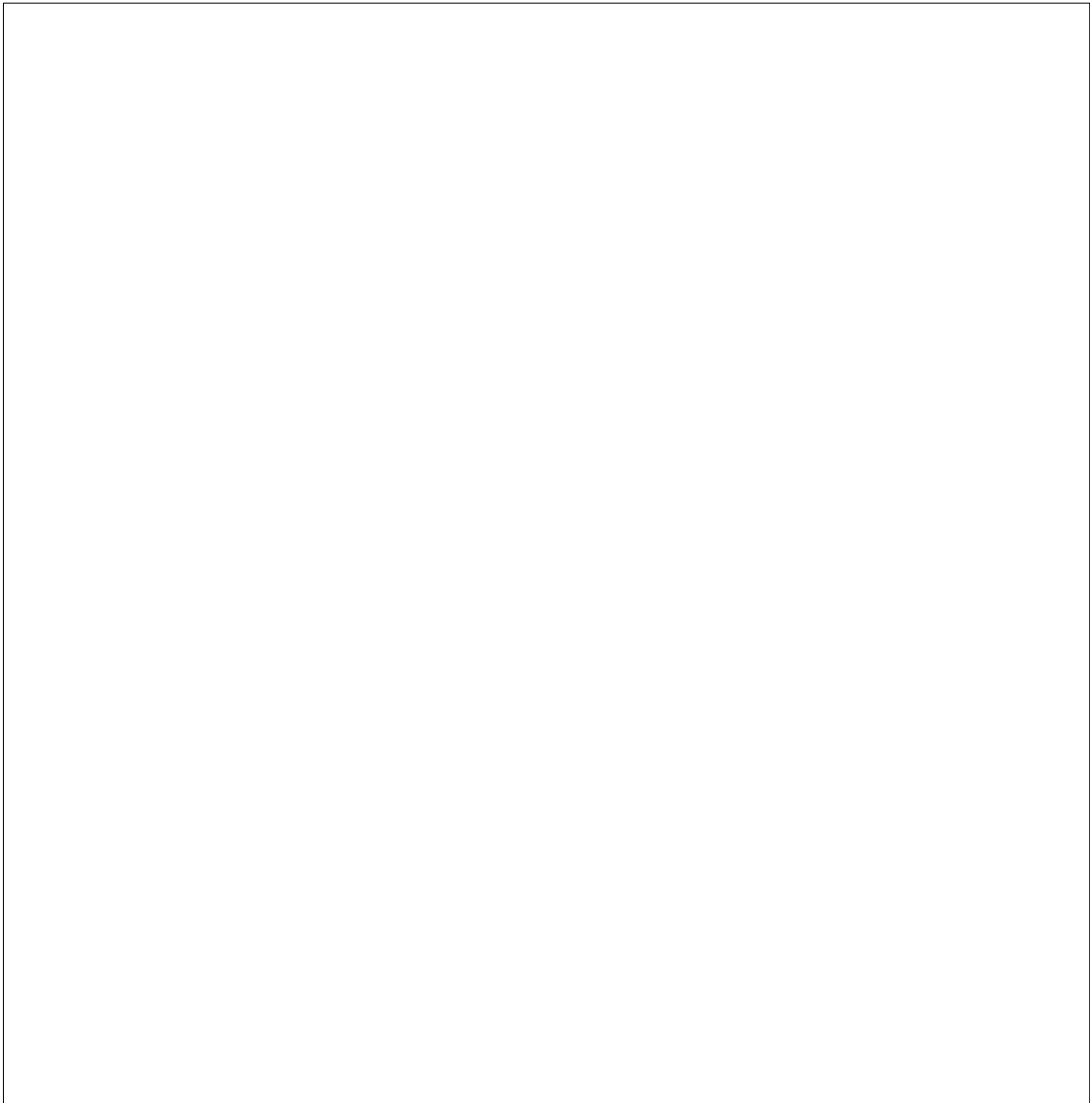
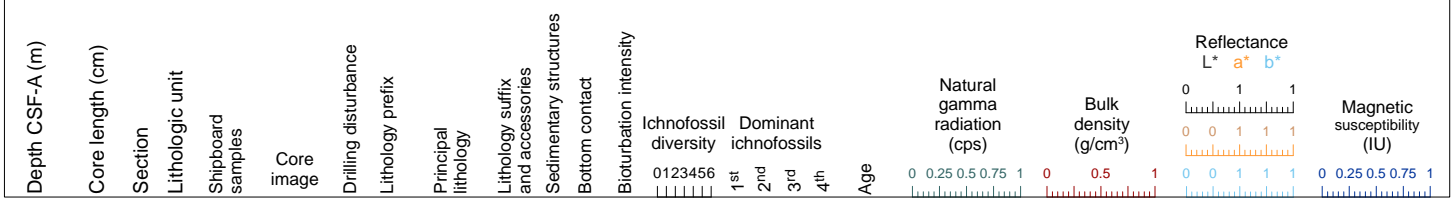
Hole 393-U1558F Core 3H, Interval 13.5-23.11 m (CSF-A)

Core 3H consists of mainly interbedded pinkish white (5YR 8/2) and pink (5YR 7/4) nannofossil ooze with clay and pinkish gray (5YR 7/2) and light brown (7.5YR 6/4) clayey nannofossil ooze occurring at the decimeter scale. Bedding is typically massive. Diagenetic pink lenses and large blebs (2 cm) were rarely observed sporadically throughout the sediments. Distinct ichnofossils were identified throughout this core, occurring in decimeter-scale beds and include *Thalassinoides*, *Planolites*, *Chondrites*, *Skolithos*, and rare occurrences of *Palaeophycus*. The bioturbation intensity ranged from sparse to moderate and biogenic mottling was observed in most intervals where ichnofossils occurred. Drilling disturbances were limited to soupy conditions to the first 43 cm in section one. Otherwise, no drilling disturbances were observed.



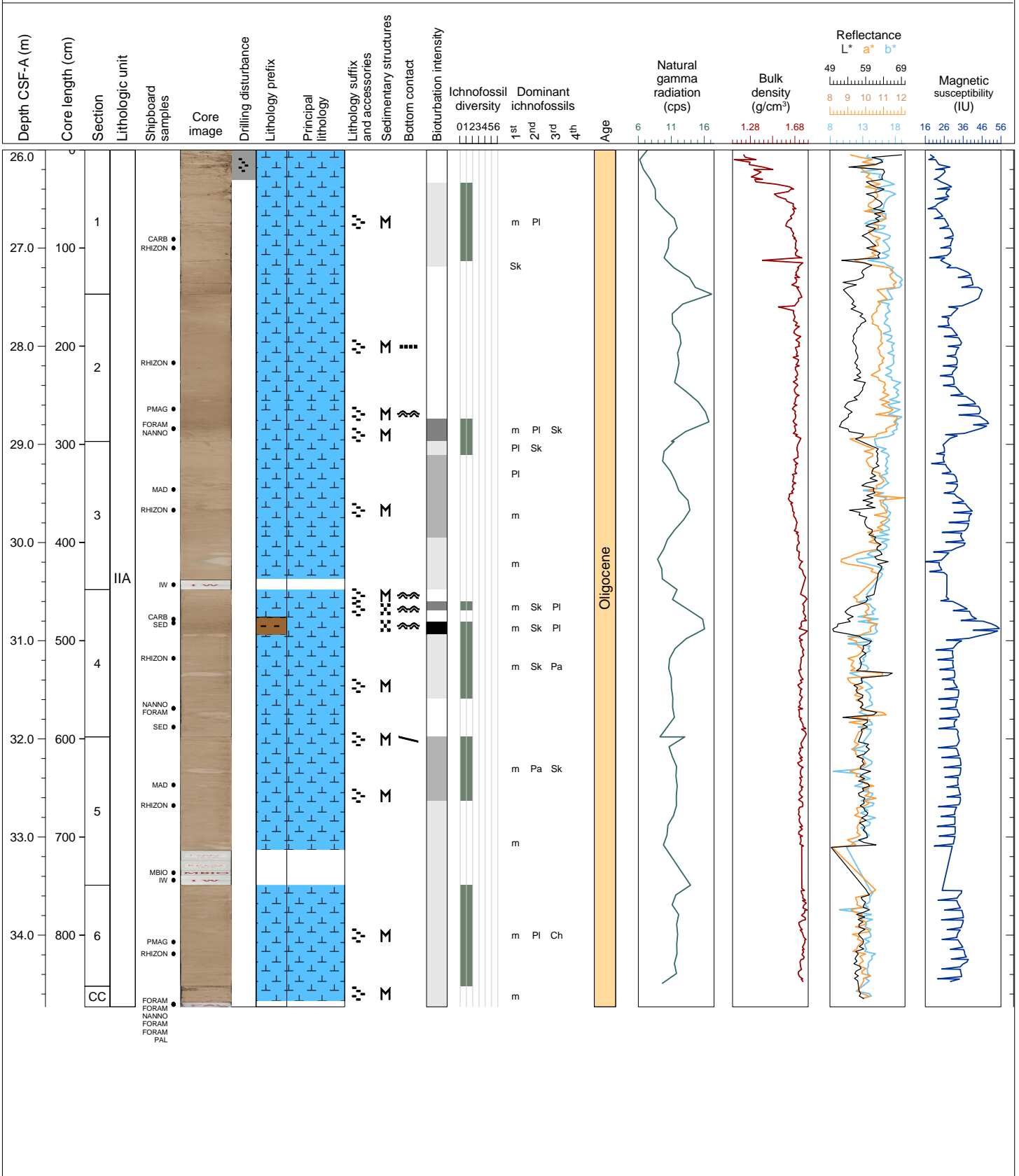
Hole 393-U1558F Core 4H, Interval 23.0-23.0 m (CSF-A)

NO RECOVERY 23-26 m



Hole 393-U1558F Core 5H, Interval 26.0-34.73 m (CSF-A)

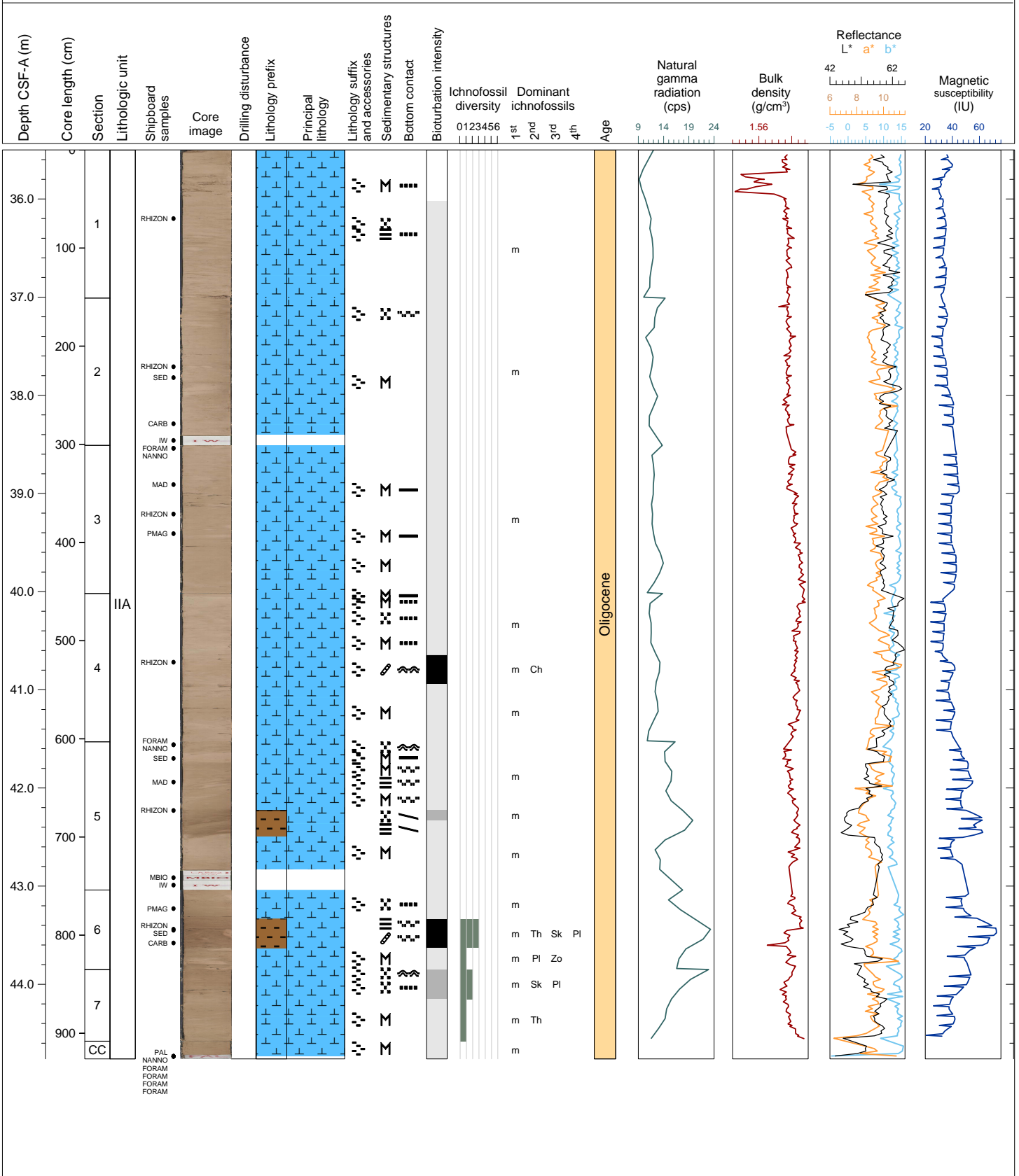
Core 5H consists of mainly pink (5YR 7/3) nannofossil ooze with clay. A few decimeter-scale beds were light reddish brown to light brown in color. The sediments typically were massive in nature and mottling was generally rare. Pinkish white (5YR 8/2) large blebs and halos sporadically occurred within this core. Distinct ichnofossils were observed in: section 1 between 33 and 119 cm and included Planolites and Skolithos; section 2, 127 cm and section 3, 53 cm and included Planolites and Skolithos with biogenic mottling occurring for each interval. Between section 4 at 33 cm and the bottom of this core, biogenic mottling, Skolithos, Planolites, Chondrites, and Palaeophycus are observed in decimeter-scale beds. The first 31 cm in section one was destroyed owing to slurry sediment conditions. Otherwise, no drilling disturbances were observed.





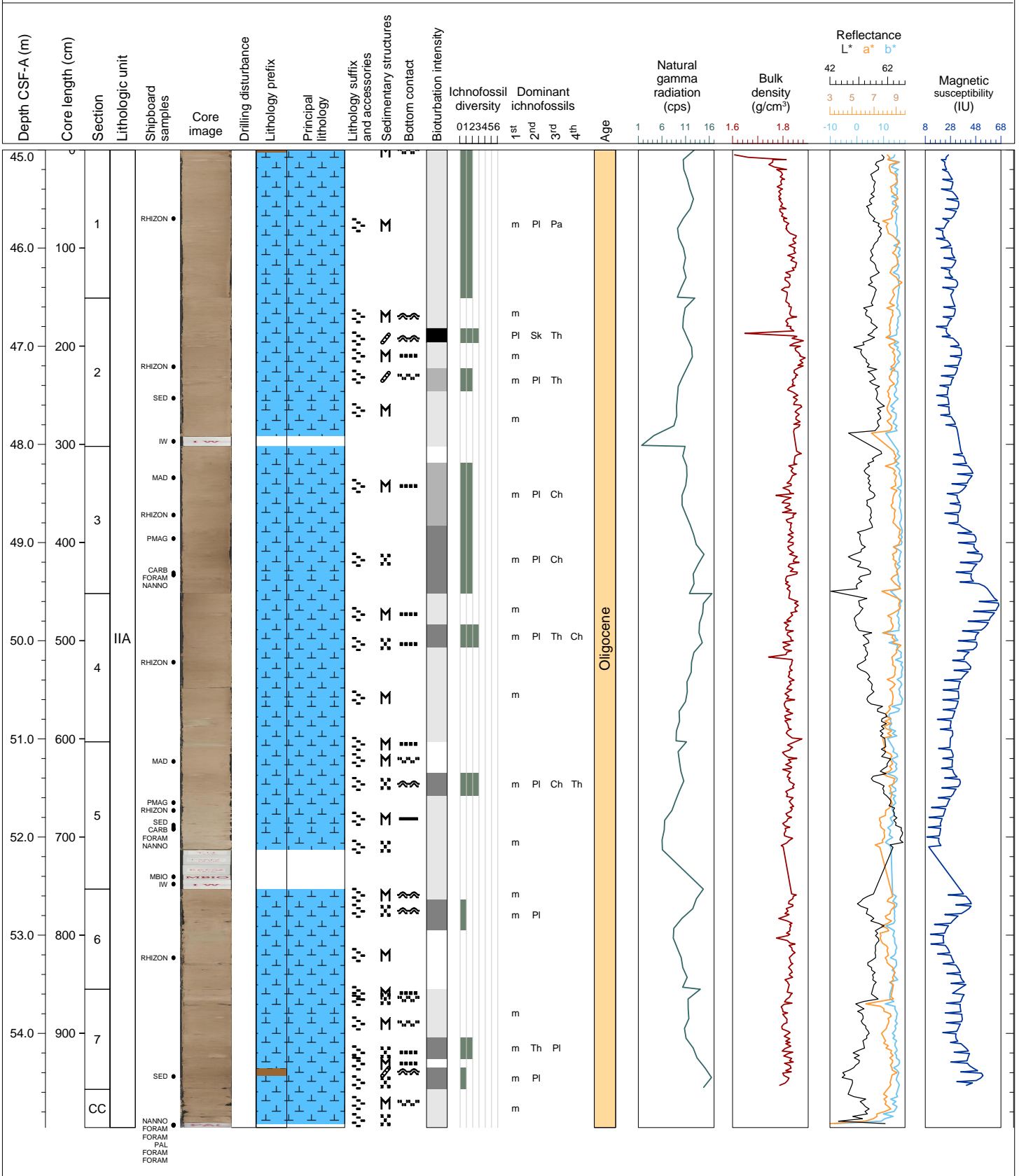
Hole 393-U1558F Core 6H, Interval 35.5-44.76 m (CSF-A)

Core 6H consists of pink (5YR 7/3-7/4) nannofossil ooze with clay with decimeter-scale beds of slightly darker light brown clayey (7.5YR 6/4) nannofossil ooze occurring starting in section 5 at 48 cm and extending to the bottom of the core. The contacts between the color changes is gradational except in section 5 and 6, where the contacts become more irregular and slightly inclined at times. Massive bedding dominates the sedimentary structures, except where biogenic mottling and distinct ichnofossils occur. In addition, small dark blebs and pinkish white (5YR 8/2) blebs and halos occur sporadically throughout this core. Biogenic mottling is generally sparse throughout this core except in the few intervals where distinct ichnofossils occur in section 6 between 63 and 92 cm (Chondrites) and in section 6 between 30 and 81 cm (Thalassinoides, Planolites, Skolithos, Zoophycos). No drilling disturbances were observed.



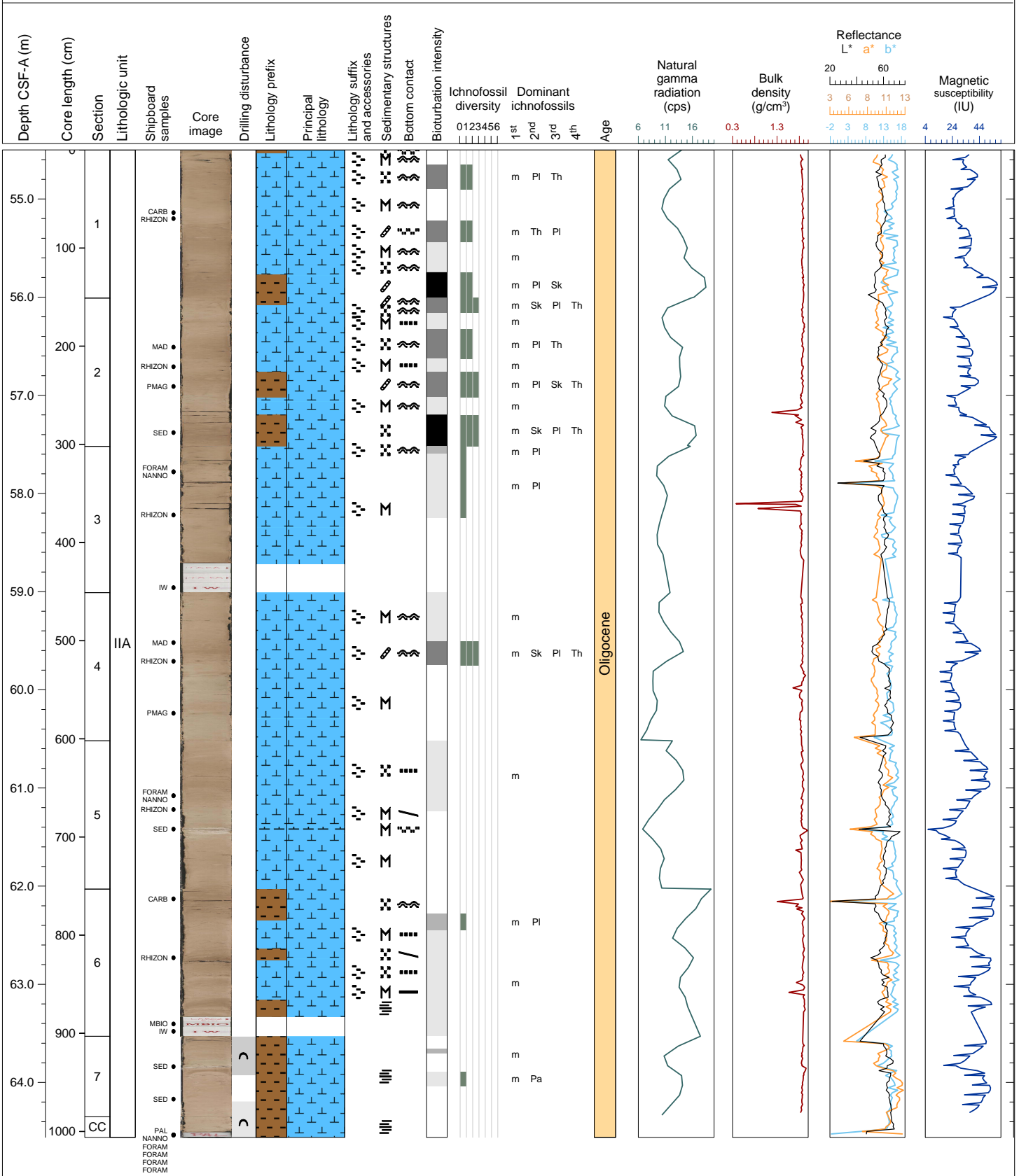
Hole 393-U1558F Core 7H, Interval 45.0-54.96 m (CSF-A)

Core 7H consists of pink (5YR 7/3) nannofossil ooze with clay with decimeter-scale beds of slightly darker very pale brown (7.5YR 7/3) and light brown (7.5YR 6/4) nannofossil ooze with clay occurring at meter-scale intervals. Contacts between the lithologic changes are bioturbated, gradational to irregular. Bedding is usually massive except when mottling and trace fossils hinder identification of the bedding. Dark small blebs (<1 cm) and pinkish blebs and halos (0.5 to 3 cm) sporadically occur throughout this core. Biogenic mottling is observed in a majority of this core ranging from sparse to moderate intensity. In addition, distinct ichnofossils occur throughout this core in decimeter-scale beds randomly throughout the core. The dominant trace fossils include Planolites, Chondrites, Skolithos, and Thalassinoides with rare occurrences of Palaeophycus. Ichnofossil diversity ranges from 1 up to 3 with the maximum diameter ranging from 6 to 16 mm. No drilling disturbances were observed.



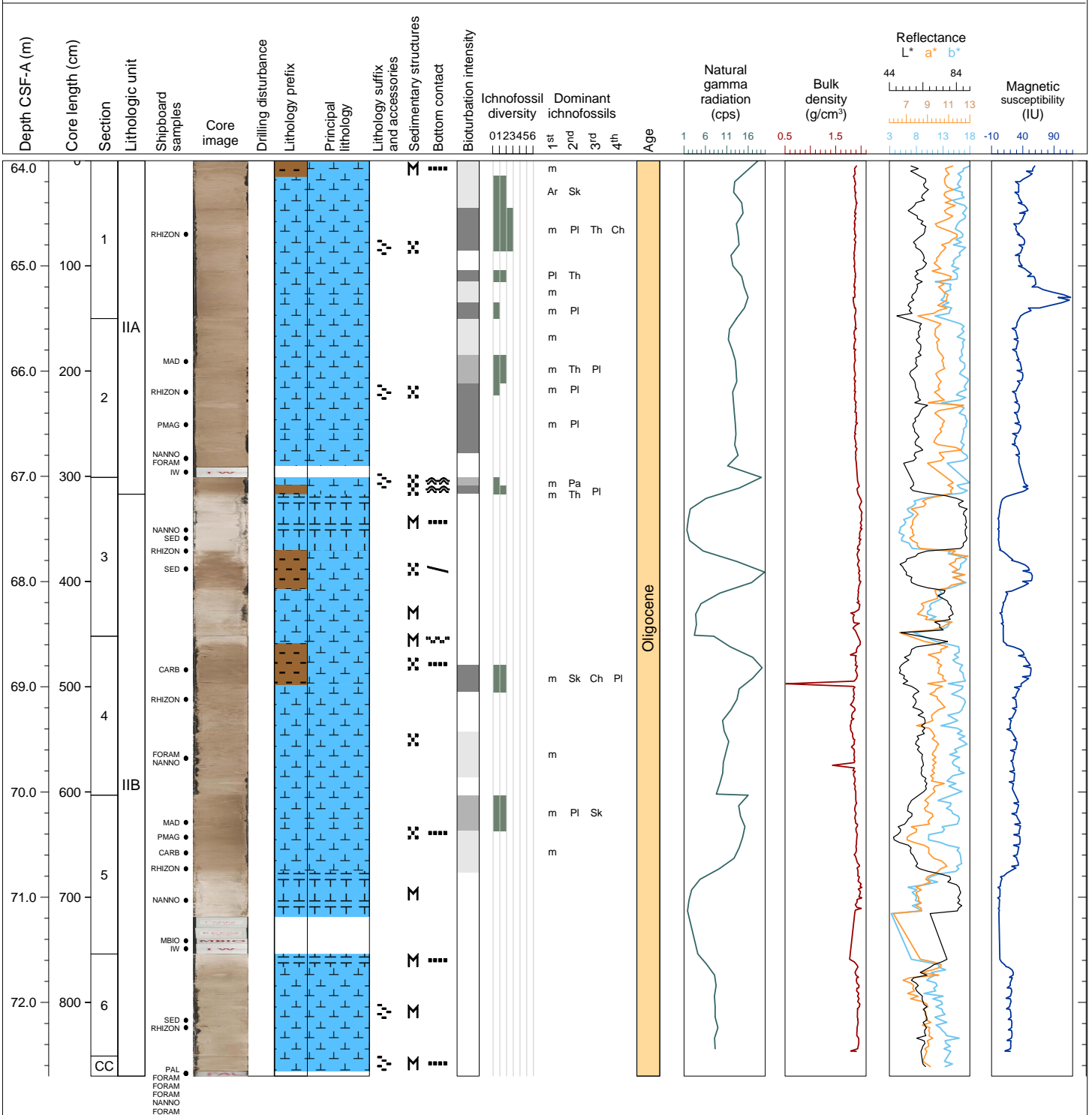
Hole 393-U1558F Core 8H, Interval 54.5-64.56 m (CSF-A)

Core 8H consists of mainly pink (7.5YR 7/3) and light brown (7.5YR 6/4) nannofossil ooze with clay. Decimeter-scale beds of with pink (7.5YR 7/3) and light brown (7.5YR 6/4) clayey nannofossil ooze occurs throughout this core at the meter scale. Contacts between the clayey nannofossil ooze and nannofossil ooze with clay is bioturbated to gradational. Bedding is often massive, with mottling being dominant in the first two section and becoming more infrequent within decimeter-scale beds from the top of section 3 to the bottom of this core. Distinct ichnofossils occur in the upper two section that include: Planolites Skolithos, and Thalassinoides. Diversity ranges from 2 to 3 ichnogenera and the maximum diameter ranges from 6 to 12 mm. Between section 3 and the bottom of this core, ichnofossils are found in two beds in section 6 and contain Planolites in section 6 at 25-33 cm and Palaeophycus in section 7 at 36-51 cm. No drilling disturbances were observed exception section 7 where some moderate up-arching was observed.



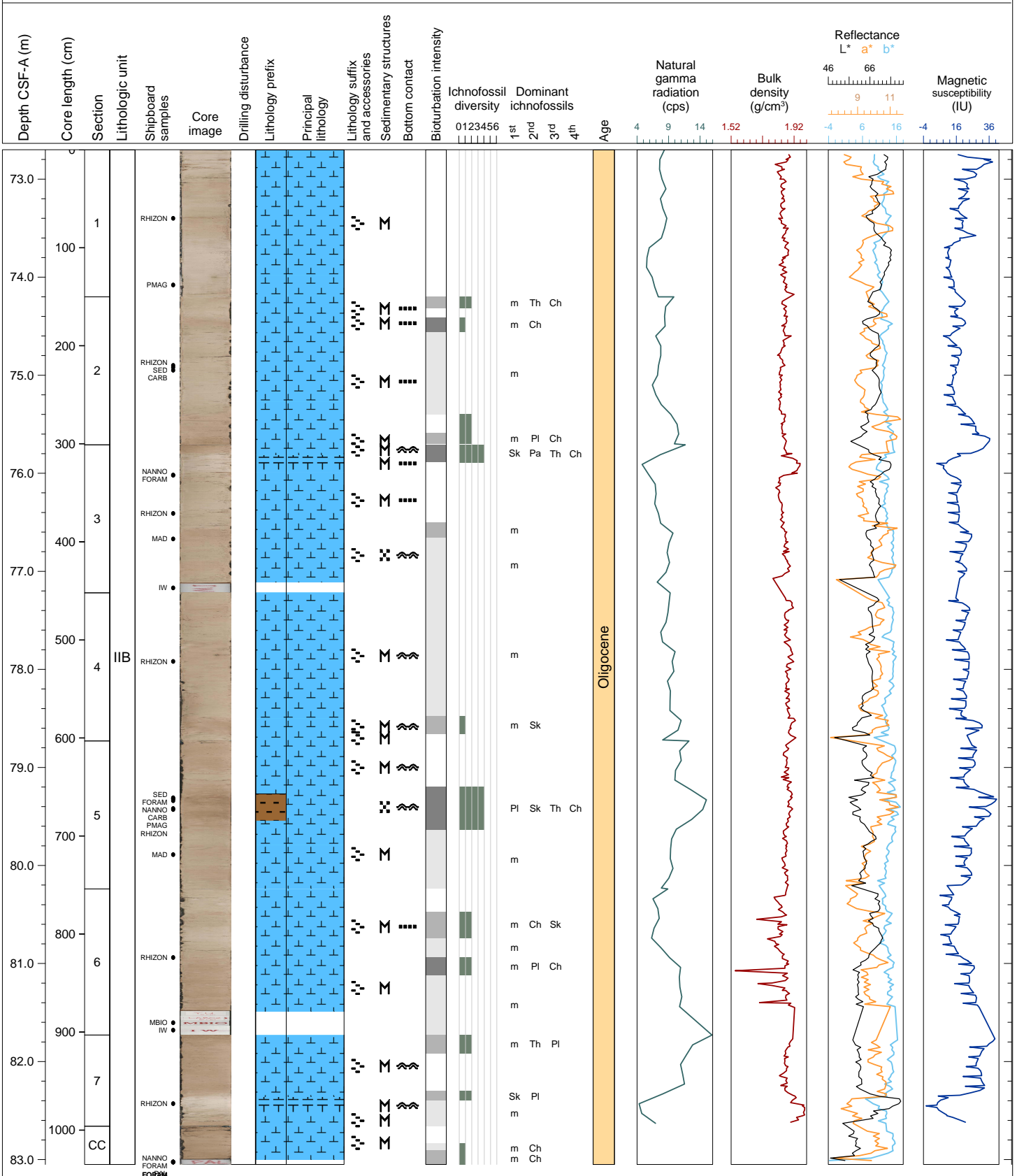
Hole 393-U1558F Core 9H, Interval 64.0-72.7 m (CSF-A)

Core 9H consists of alternating at the decimeter-scale white (N 9.5) calcareous ooze, light brown (7.5YR 6/4) and light reddish brown 5YR 6/4) clayey nannofossil ooze, and pink (7.5YR 7/3) nannofossil ooze with clay and nannofossil ooze. Contacts between the lithologies vary from gradational to subangular. Massive bedding and mottling occur throughout this core. Between section 3 at 106 cm to section 4 at 7 cm and between 16 and 69 cm in section 3, the white nannofossil ooze contains recrystallized microfossils. Biogenic mottling and distinct ichnofossils are present in decimeter thick beds between sections 1 and 3. Distinct ichnofossils include Thalassinoides, Planolites, Skolithos, Chondrites, and Palaeophycus. Diversity ranges from 1 to 3 and the maximum diameter ranges from 4 and 15 mm. No drilling disturbances were observed.



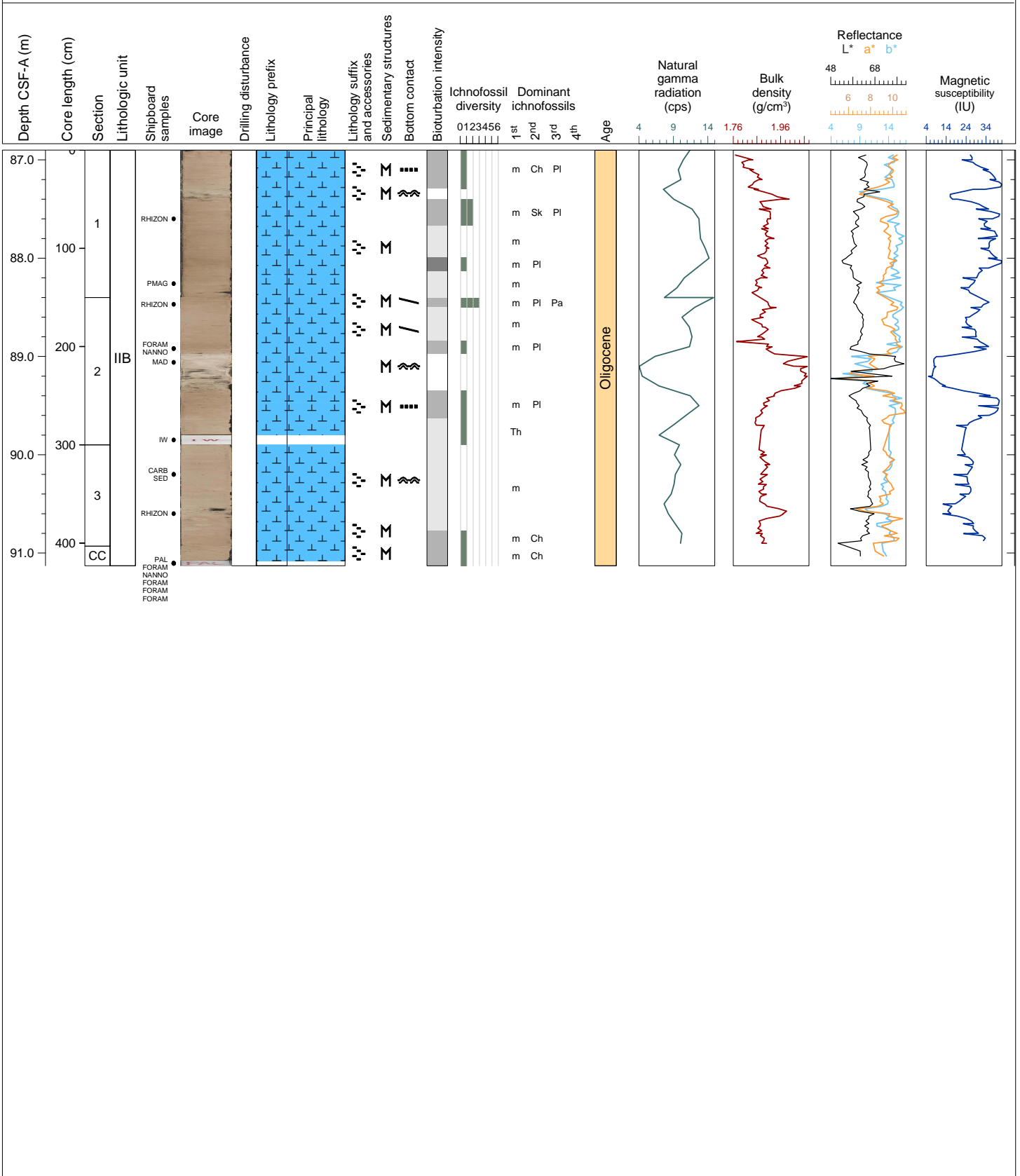
Hole 393-U1558F Core 10H, Interval 72.7-83.05 m (CSF-A)

Core 10H consists of alternating at the meter-scale pinkish white (7.5YR 8/2) to pink (7.5YR 7/3) nannofossil ooze with clay with decimeter-scale beds of white (N 9.5) calcareous ooze. Contacts between the lithologies are mainly bioturbated and the bedding is massive. Biogenic mottling and distinct ichnofossils were observed within decimeter-scale beds throughout the core and include Planolites, Chondrites, Thalassinoides, Skolithos, and Palaeophycus. Diversity ranged from 1 to 4 and maximum diameters of the ichnofossils ranged from 2 to 20 mm. No drilling disturbances were observed.



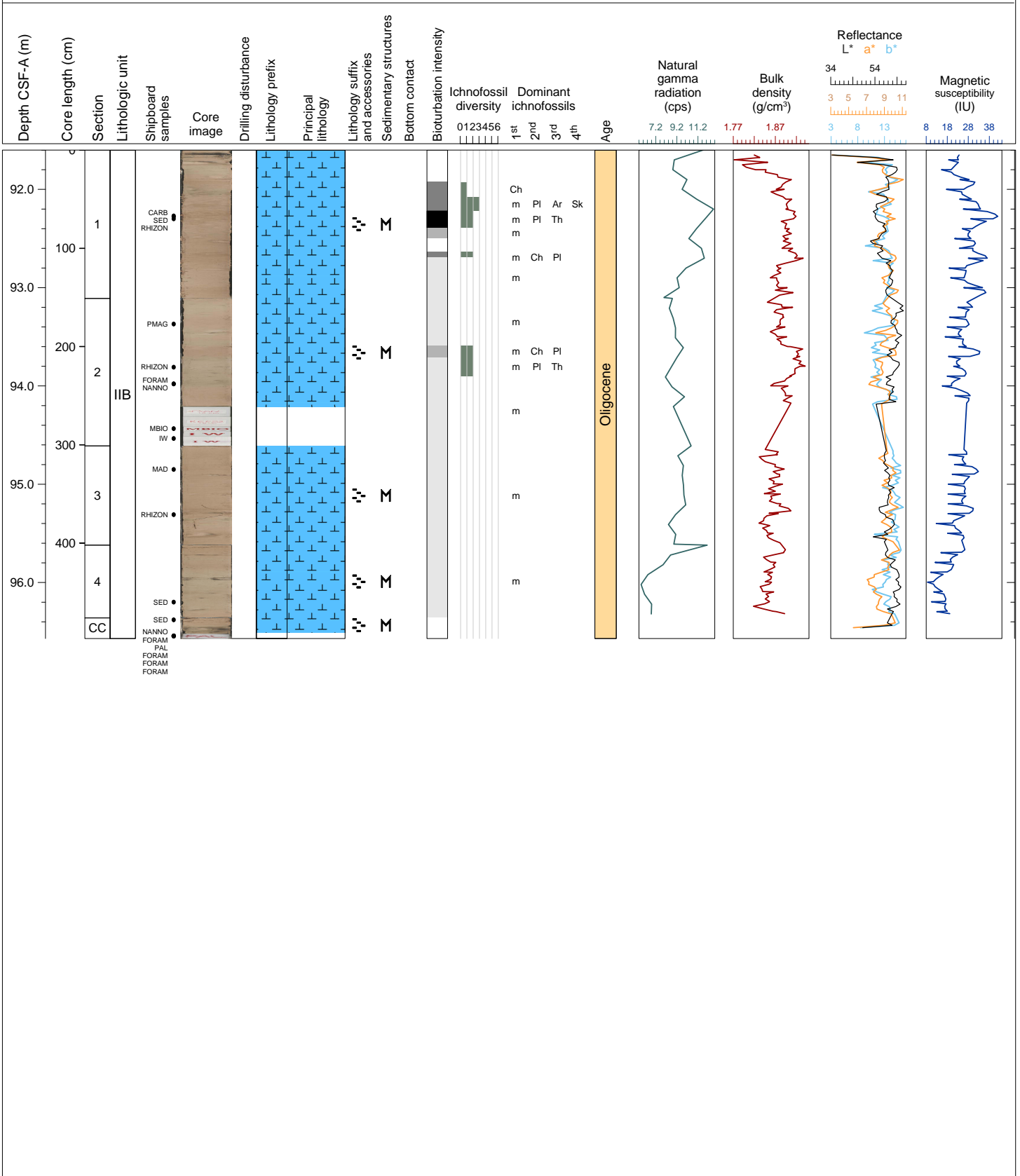
Hole 393-U1558F Core 11F, Interval 86.9-91.13 m (CSF-A)

Core 11H consists of pinkish white (7.5YR 8/2) and pink (7.5YR 7/3) nannofossil ooze with clay. A single bed of white (N 9.5) nannofossil ooze occurs in section 2 between 58 and 82 cm. Contacts between the lithologies varies from gradational, bioturbated to sharp and the bedding is massive throughout. Biogenic mottling and distinct ichnofossils occurs in decimeter thick beds in this core and include Condrites, Skolithos, Planolites and Palaeophycus. Diversity ranges from 1 to 3 and the maximum diameter ranges from 3 to 14 mm. No drilling disturbances were observed.



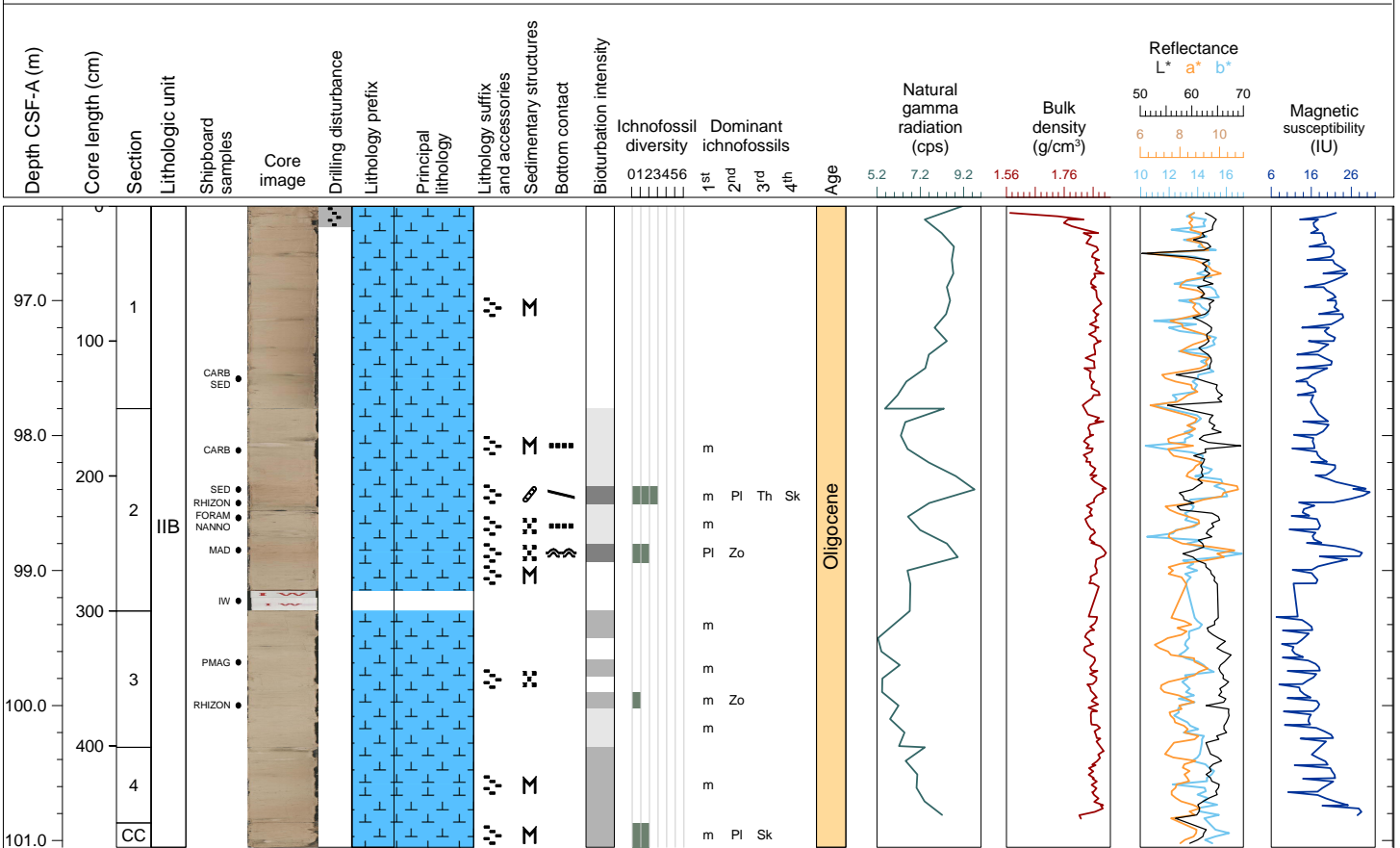
Hole 393-U1558F Core 12F, Interval 91.6-96.57 m (CSF-A)

Core 12H consists of pink (7.5YR 7/3) nannofossil ooze with clay in section 1, brightening to a pinkish white (7.5YR 8.5/2) nannofossil ooze with clay. The bedding is massive. Small black to gray blebs are rare and rare 1 to 3 cm pink halos were observed in section 1. Biogenic mottling and distinct ichnofossils are rare and occur in 10 to 20 cm thick beds occurring at the decimeter to meter scale and include Chondrites, Planolites, Thalassinoides. Diversity is low ranging from 1 to 2 and the maximum diameters range from 3 to 12 mm. No drilling disturbances were observed.



Hole 393-U1558F Core 13F, Interval 96.3-101.05 m (CSF-A)

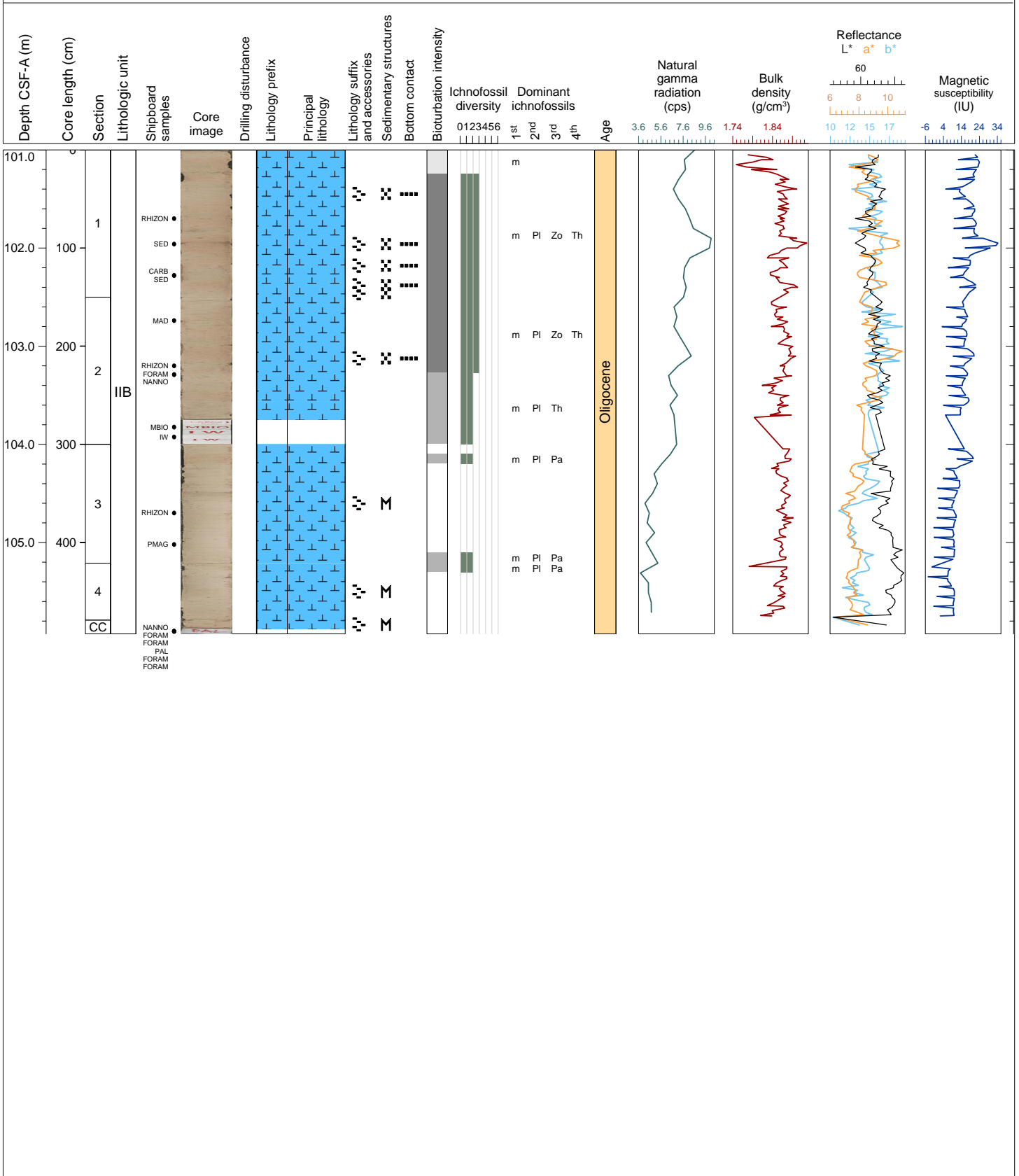
Core 13H consists of pinkish white (7.5YR 8.5/2) nannofossil ooze with clay and two pink (7.5YR 7/3) nannofossil ooze with clay beds in section 2 at 55-72 cm and 102-112 cm. The contacts between the two lithologies bioturbated to sharp and the bedding is massive and often mottled. Biogenic mottling and distinct ichnofossils are restricted to decimeter-thick beds occurring at the meter scale and include Zoophycos, Planolites, Skolithos, and Thalassinoides. Diversity ranges from 1 to 3 and the maximum diameter ranges from 5 to 11 mm. No drilling disturbances were observed.





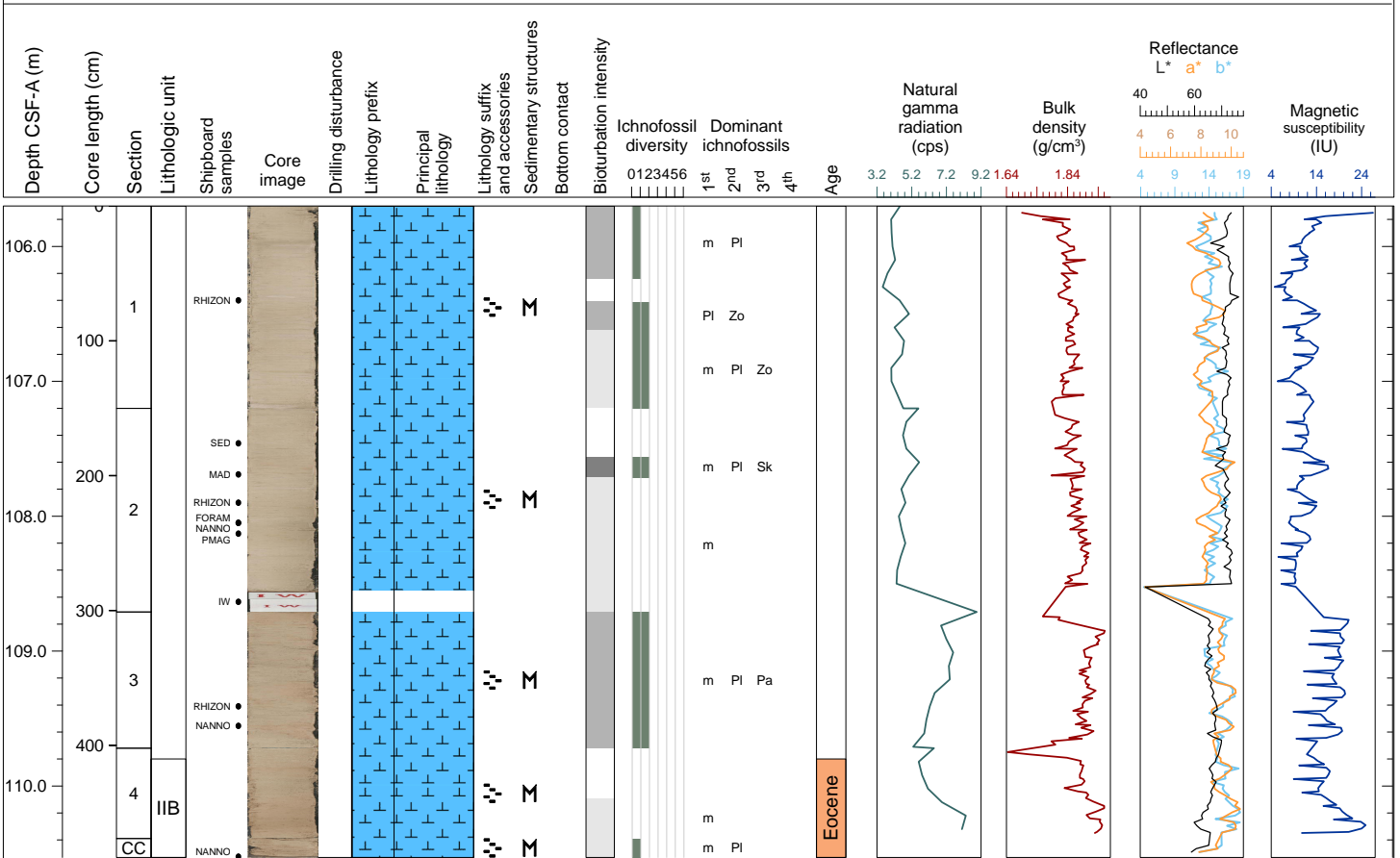
Hole 393-U1558F Core 14F, Interval 101.0-105.93 m (CSF-A)

Core 14H consists of (7.5YR 7/3) pink to (7.5YR 8.5/2) pinkish white nannofossil ooze with clay. Bedding is massive. Biogenic mottling and ichnofossils were restricted to section 1 starting 24 cm to section 2 at 65 cm and include Planolites, Zoophycos, Thalassinoides. Diversity is 3 and the maximum diameter ranges from 7 to 8 mm. No drilling disturbances were observed.



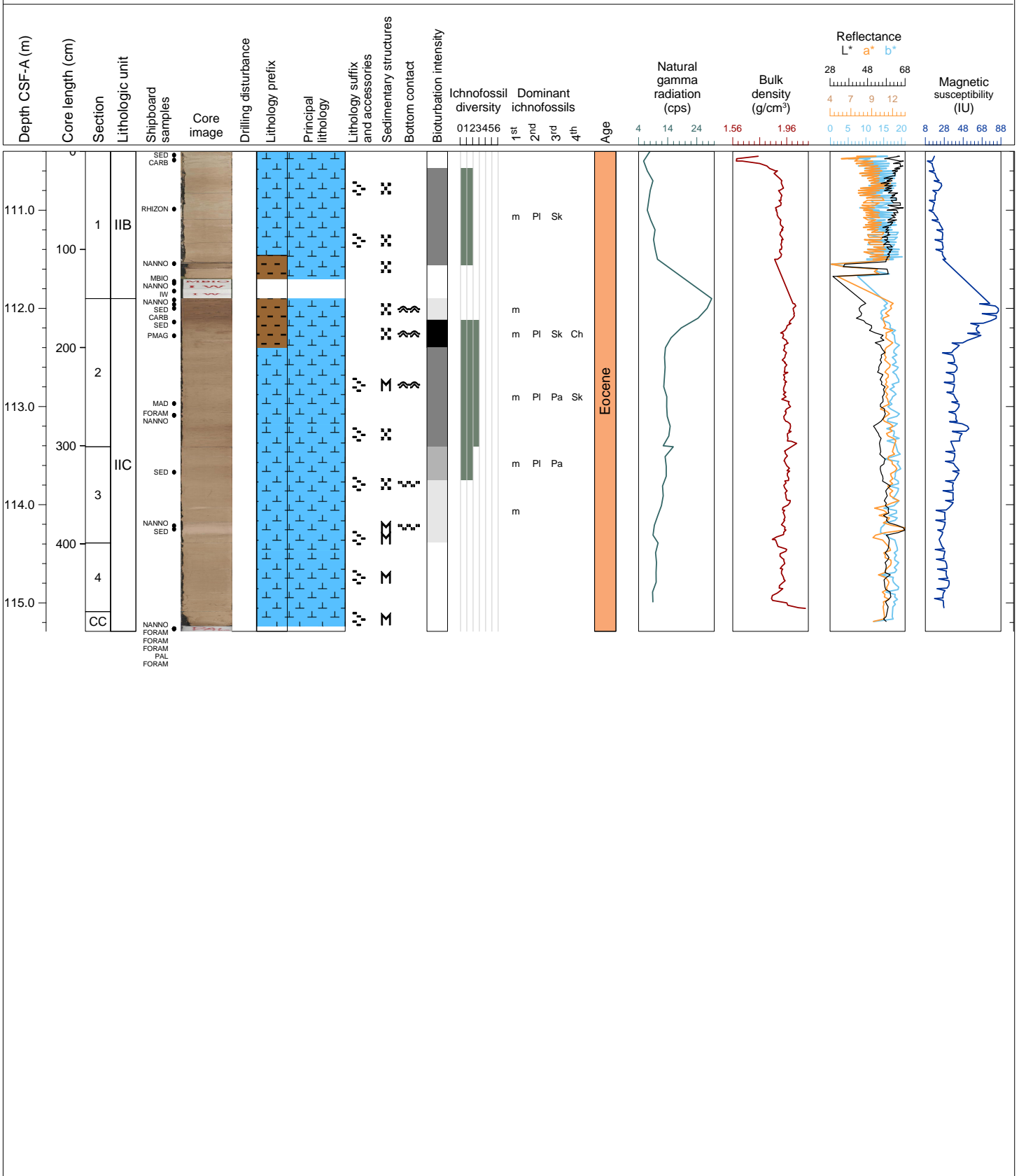
Hole 393-U1558F Core 15F, Interval 105.7-110.53 m (CSF-A)

Core 15 consists of (7.5YR 8.5/2) pinkish white nannofossil ooze with clay. Bedding is massive with rare pink large (2-4 cm) haloes and light brown lens shaped and small blebs were observed throughout this core. Biogenic mottling occurs throughout this core; however, distinct ichnofossils are restricted to section 1 between 90 and 127 cm and includes Zoophycos with a maximum diameter of 4 mm. No drilling disturbances were observed.



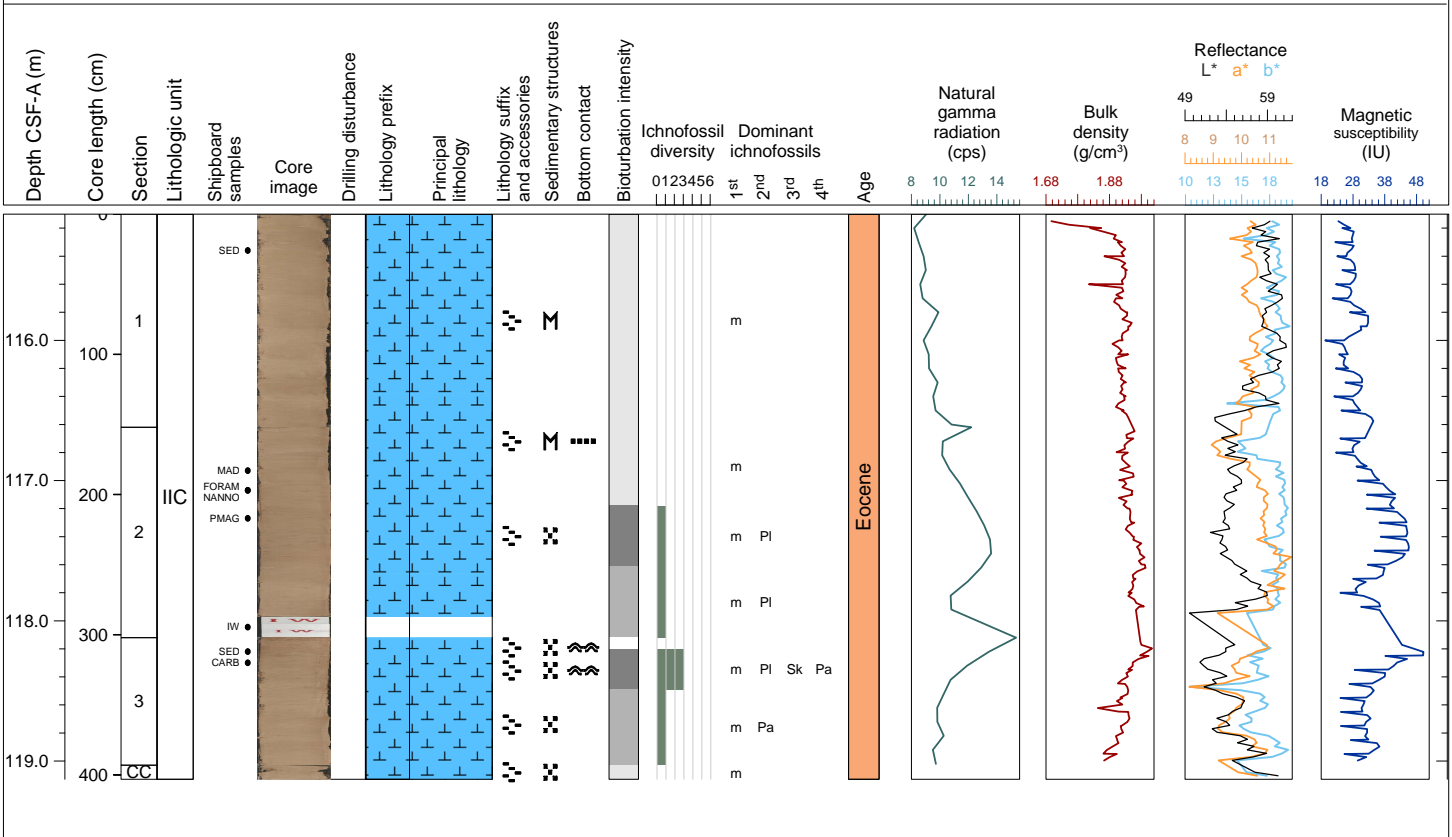
Hole 393-U1558F Core 16F, Interval 110.4-115.29 m (CSF-A)

Core 16H starts the same as Core 15H with to (7.5YR 8.5/2) pinkish white nannofossil ooze with clay and then begins to darken at the bottom of section 1 at 76 cm to pink (7.5YR 7/3) and then brown (7.5YR 5/4) to light brown (7.5YR 6/4) clayey nannofossil ooze in section 2 between 0 and 50 cm. At the top of section 2 is the Oligocene Eocene Boundary. Below section 2, 50 cm the lithology returns to pink (7.5YR 7/3) nannofossil ooze with clay to the bottom of this core with the exception of a medium bed of (5YR 8/2) nannofossil ooze. Massive bedding and mottling occur throughout this core. The contacts between the changes in color are bioturbated. Biogenic mottling is present in sections 1 and 2 as well as in section 3 between 76 and 98 cm. No distinct ichnofossils were identified in this core. No drilling disturbances were observed.



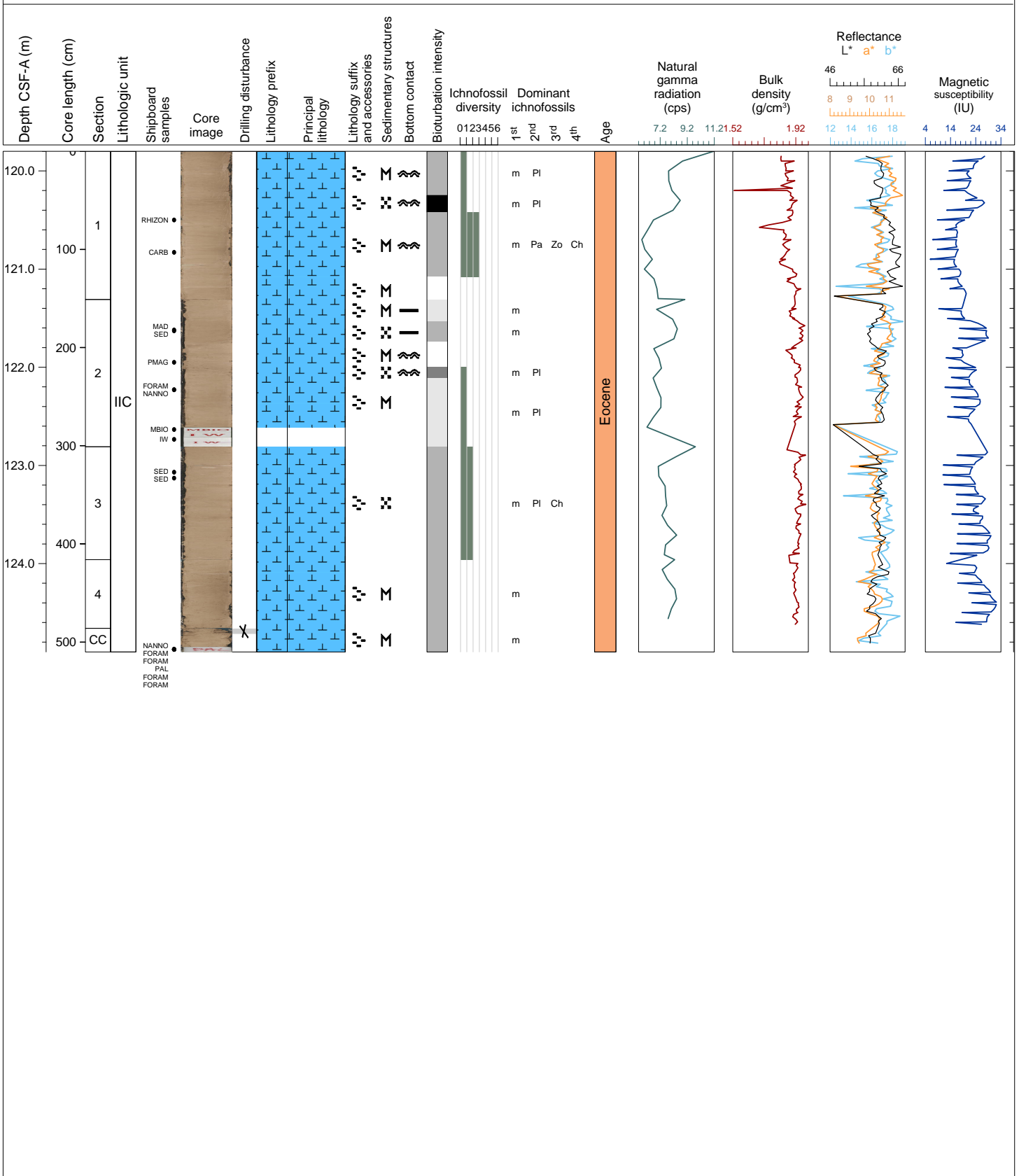
Hole 393-U1558F Core 17F, Interval 115.1-119.13 m (CSF-A)

Core 17H consists of pink (7.5YR 7/3) nannofossil ooze with clay. The beds are massive and mottling was often present. Rare pink small (0.5 cm) blebs were observed. Biogenic mottling was observed in decimeter thick beds occurring at the meter scale. No distinct ichnofossils were identified in this core. No drilling disturbances were observed.



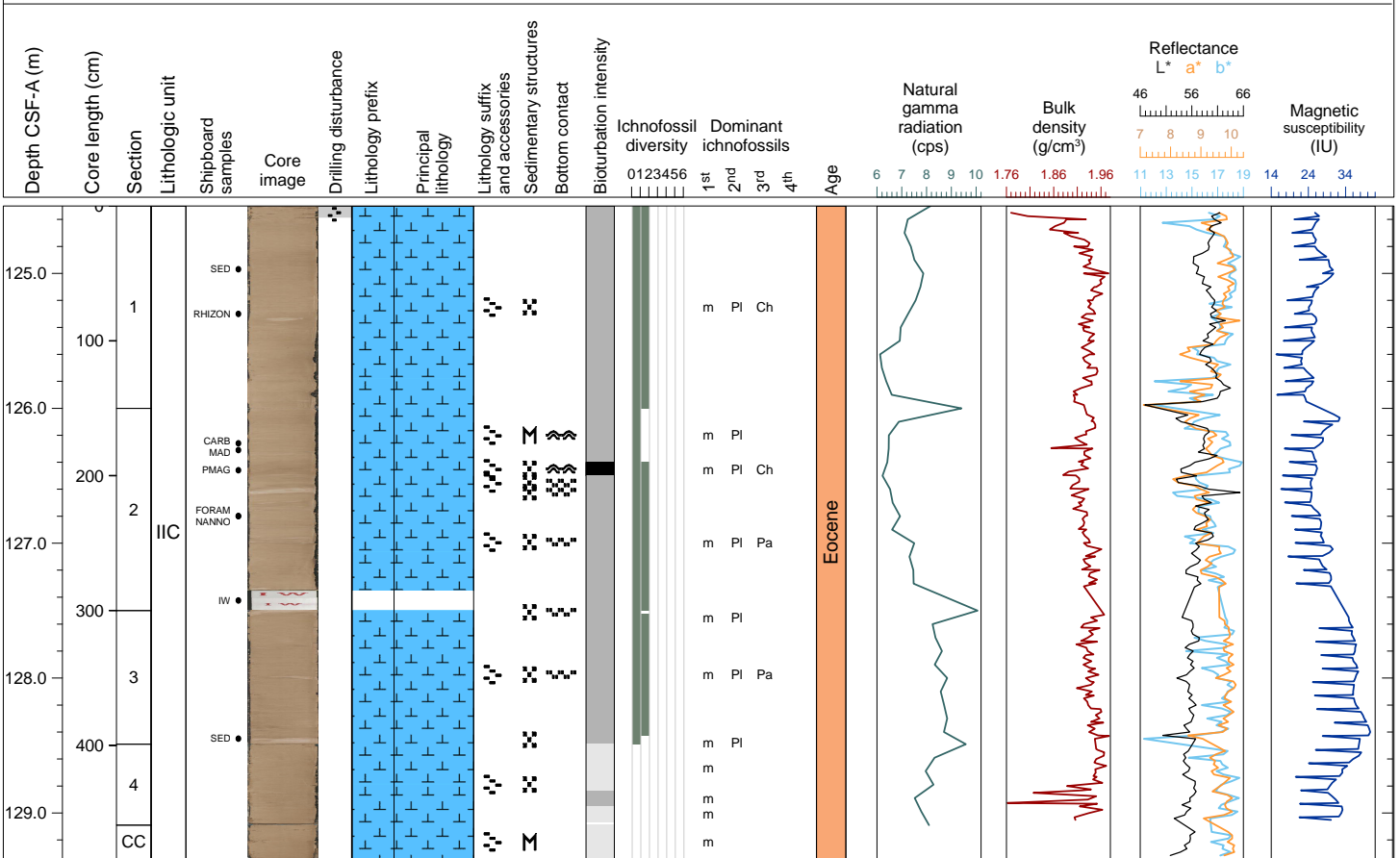
Hole 393-U1558F Core 18F, Interval 119.8-124.9 m (CSF-A)

Core 18H consists of pink (7.5YR 7/3) nannofossil ooze with clay. The beds are massive and mottling was often present. Rare pink small (0.5 cm) blebs were observed. Biogenic mottling was observed in decimeter thick beds occurring at the meter scale. No distinct ichnofossils were identified in this core. No drilling disturbances were observed.



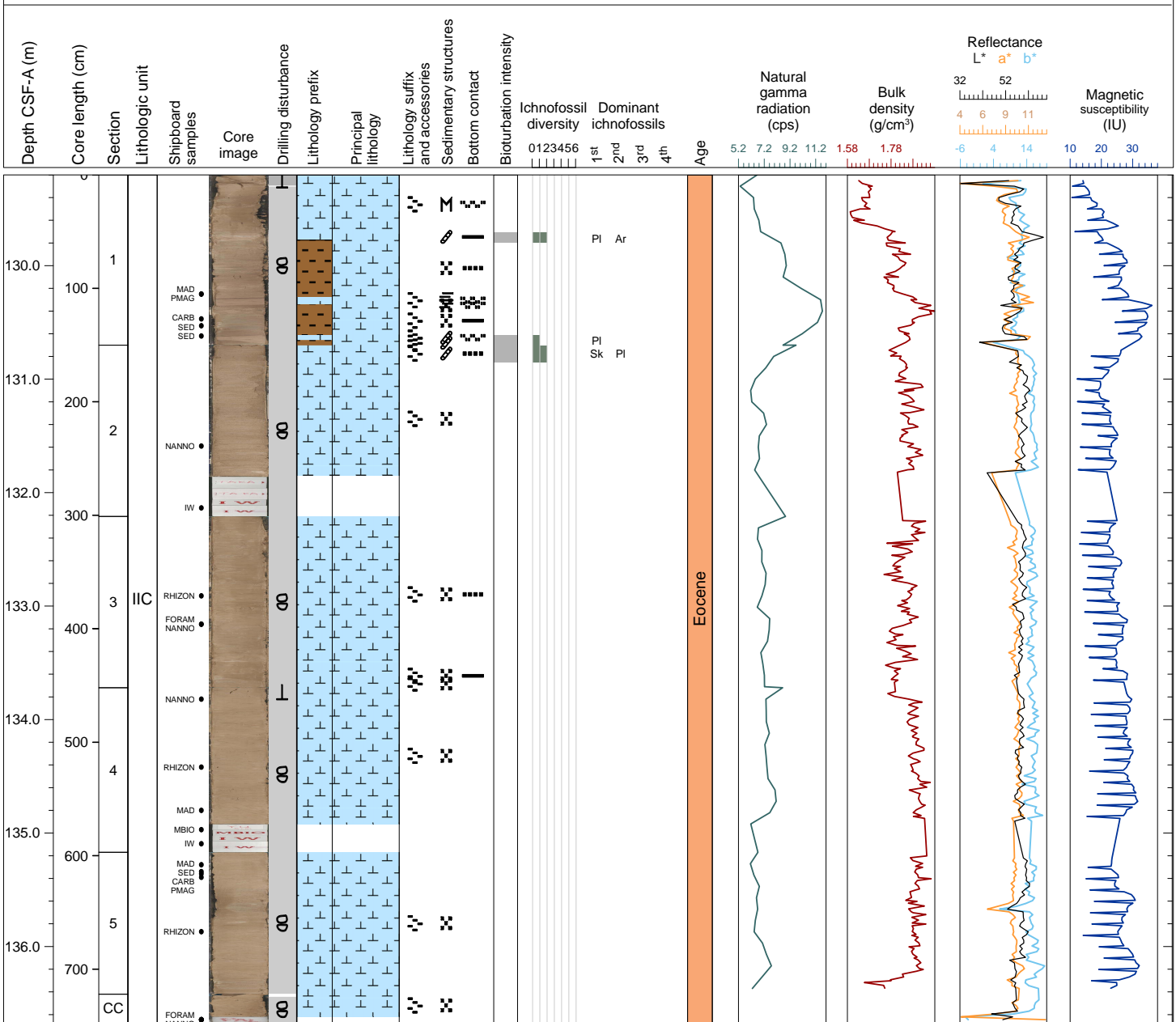
Hole 393-U1558F Core 19F, Interval 124.5-129.34 m (CSF-A)

Core 19H consists of (7.5YR 8.5/2) pinkish white to pink (7.5YR 7/3) nannofossil ooze with clay with decimeter scale thick beds of pinkish white (7.5YR 8/2) nannofossil ooze. Contact between the color changes were bioturbated to irregular. Thin to very thin beds of pinkish white (7.5YR 8.5/2) calcareous chalk occurred sporadically at the meter scale. Biogenic mottling was sparse to moderate, with no distinct ichnofossils observed. The upper 9 cm of this core was slurred which resulted in the sediments to be moderately disturbed. Otherwise no drilling disturbances were observed.



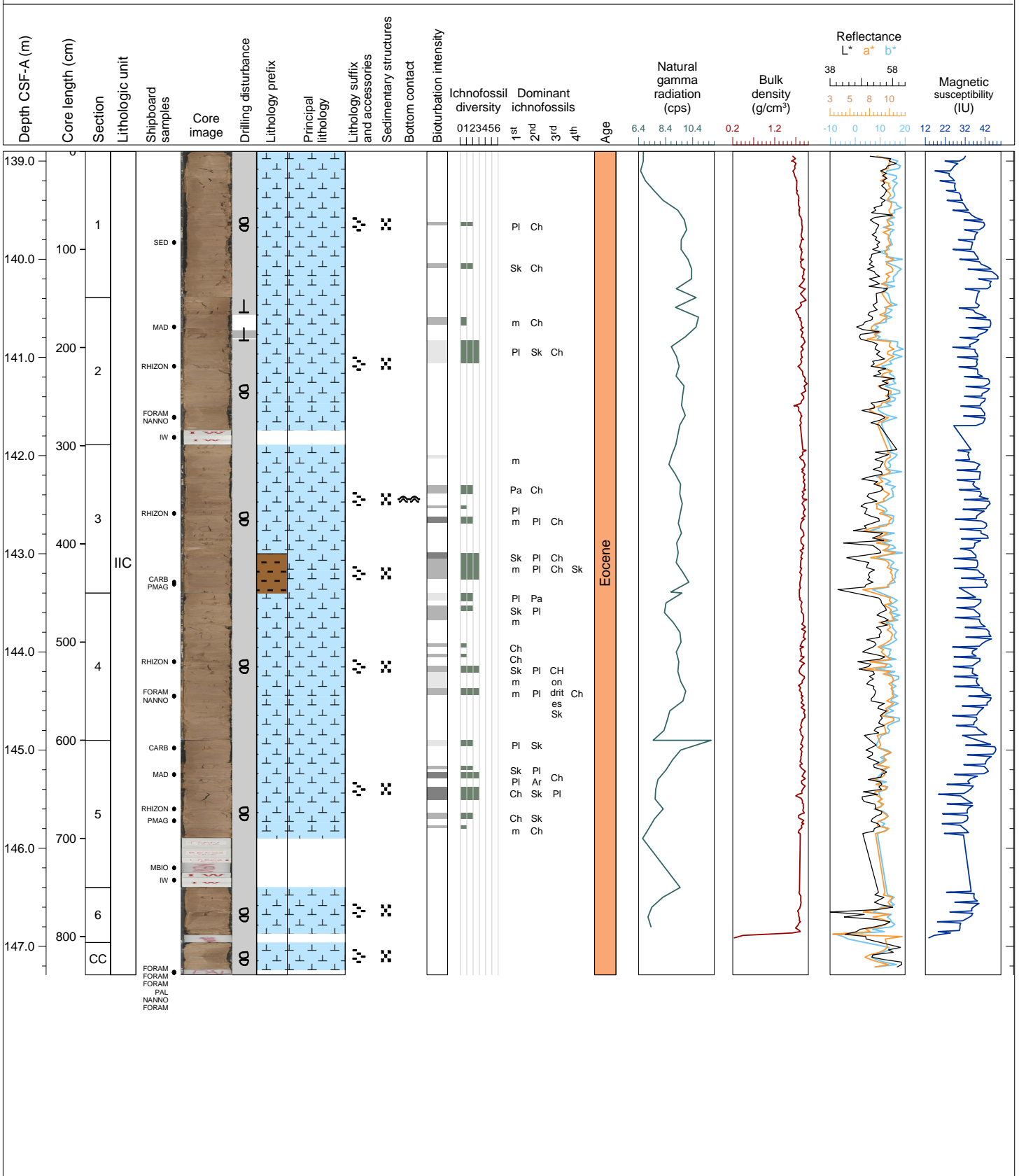
Hole 393-U1558F Core 20X, Interval 129.2-136.67 m (CSF-A)

Core 20X consists of mainly of pink (7.5YR 7/3) nannofossil chalk with clay with decimeter-thick beds of light brown (7.5YR 6/4) to brown (7.5YR 5/3) clayey nannofossil chalk occurring at the meter scale. One thin bed of pinkish white (7.5YR 8.5/2) nannofossil chalk occurred in section 1 between 52-58 cm. Pervasive non biogenic mottling was observed throughout the core. Biogenic mottling was generally absent and distinct ichnofossils only occurred in the upper 1.6 meters of this core and consisted of Planolites and Skolithos. Diversity ranged from 1 to 2 and the maximum diameter ranged from 6 to 15 mm. Moderate to severe drilling disturbances occurred throughout the core consisting of biscuited and fractured cores.



Hole 393-U1558F Core 21X, Interval 138.9-147.29 m (CSF-A)

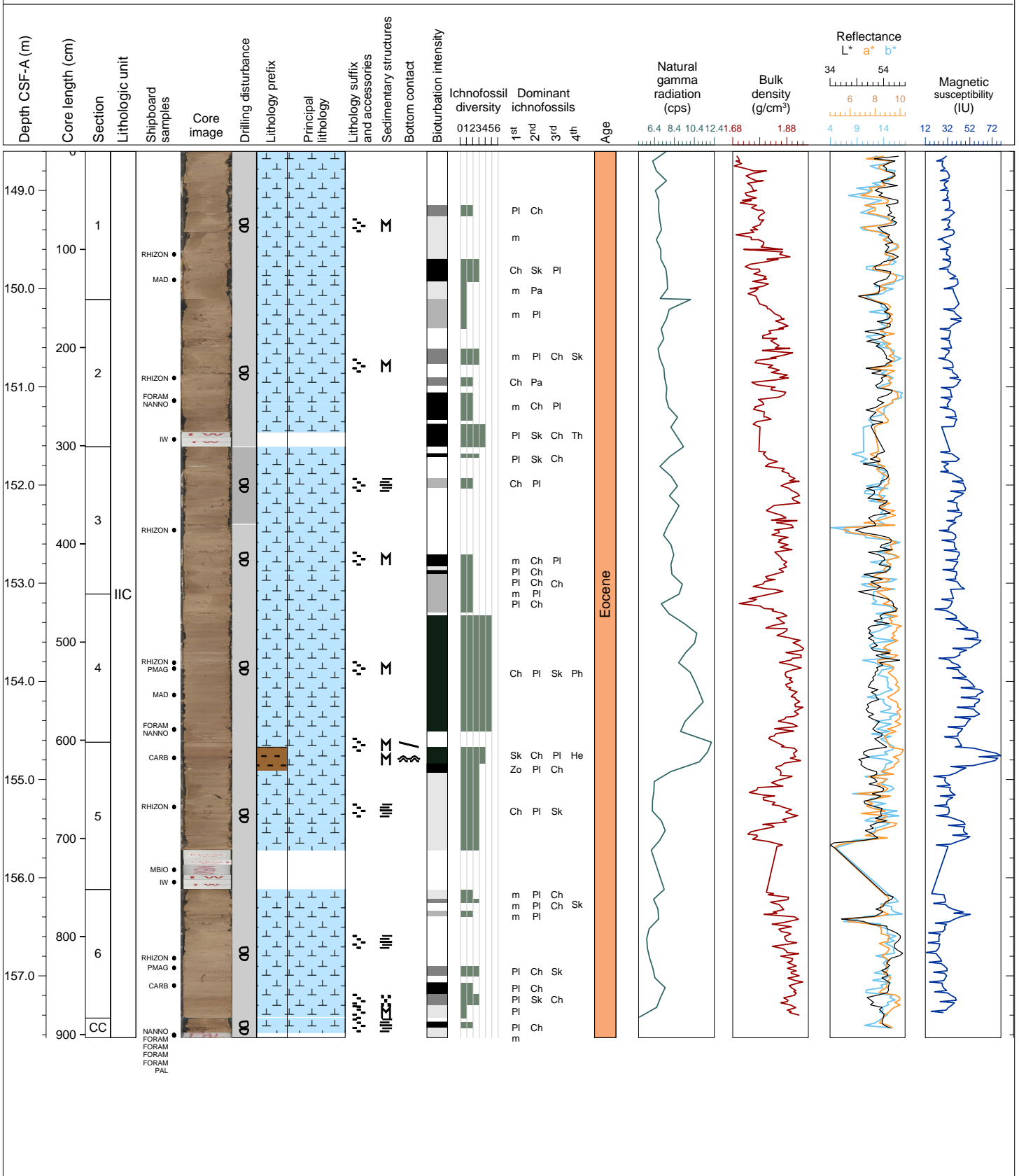
Core 21X consists of mainly pink (7.5YR 7/3) nannofossil chalk with clay with one medium thick bed of light brown (7.5YR 6/4) clayey nannofossil chalk. Mottling is pervasive throughout this core as are biogenic mottling and distinct ichnofossils, which occurs within thin to medium thick beds that occur at the decimeter scale. Ichnofossils include Planolites, Chondrites, Skolithos, Palaeophycus, Skolithos, and Arenicolites. Diversity ranges from 1 to 3 and maximum diameter ranges from 2 to 7 mm. Moderate to severe drilling disturbances occurred throughout the core consisting of biscuited and fractured cores.





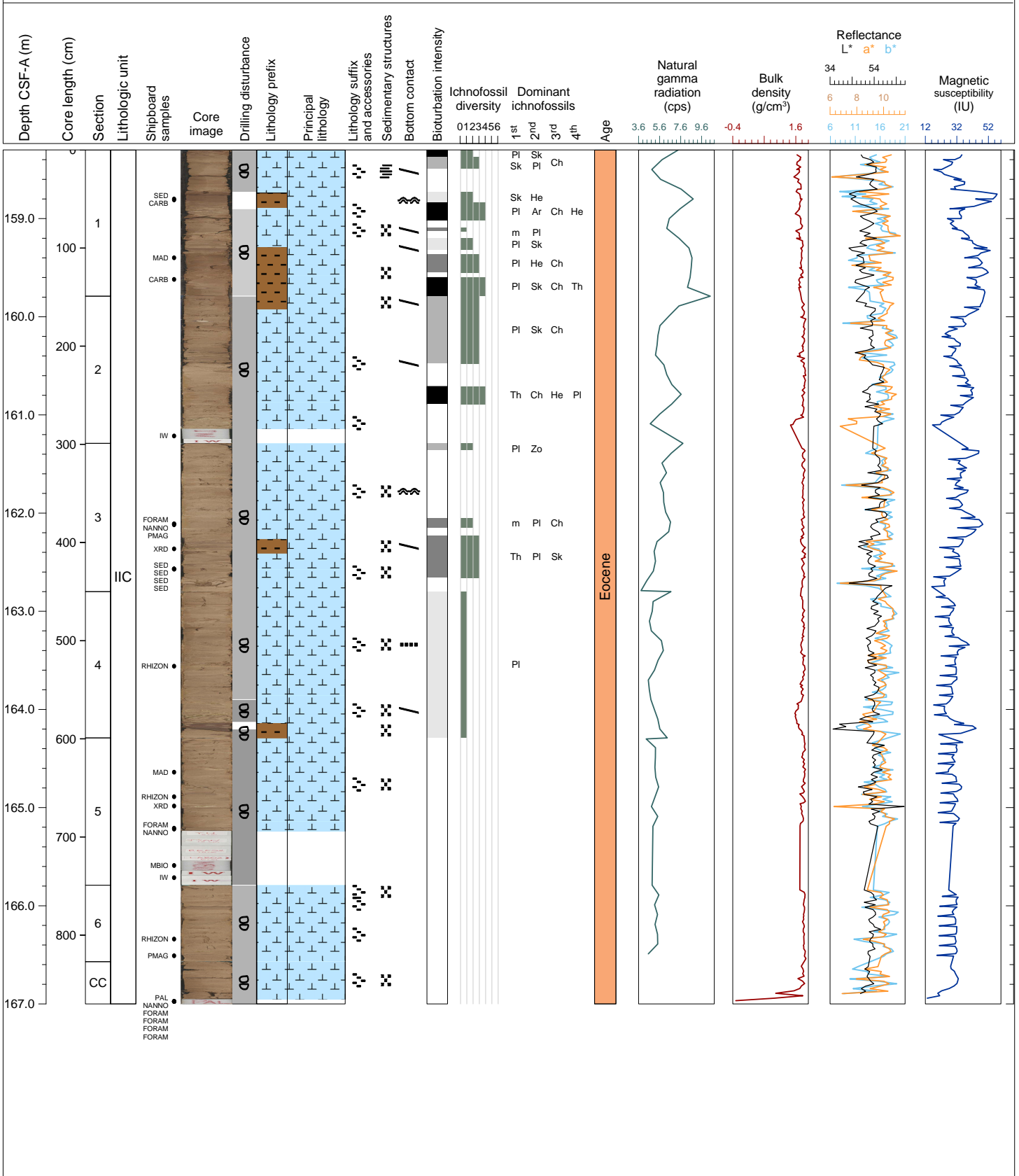
Hole 393-U1558F Core 22X, Interval 148.6-157.63 m (CSF-A)

Core 22X consists of pink (7.5YR 7/3) nannofossil chalk with clay and brown (7.5YR 5/4) to pink (7.5YR 7/3) clayey nannofossil chalk. The contacts between the lithologic changes is subangular to sharp. Bedding is massive until section 5 at 29 cm, where laminations until section 6 at 107 cm. Lenses of carbonate occurred in section 4 between 59-61 and 67-69 cm. Mottling is pervasive throughout this core as are biogenic mottling and distinct ichnofossils, which occurs within thin to medium thick beds that occur at the decimeter scale. Ichnofossils include Planolites, Chondrites, Skolithos, Palaeophycus, Skolithos, and Arenicolites. Diversity ranges from 2 to 4 and maximum diameter ranges from 4 to 10 mm. Moderate to severe drilling disturbances occurred throughout the core consisting of biscuited and fractured cores.



Hole 393-U1558F Core 23X, Interval 158.3-167.0 m (CSF-A)

Core 23X consists of pink (7.5YR 7/3) to very pale brown (7.5YR 8/3) nannofossil chalk with clay interbedded at the meter scale with medium bedded brown (7.5YR 4/3-5/3) clayey nannofossil chalk. The brown (7.5YR 5/4) interval in section 1 between 44 and 59 and 99 and 102 cm may represent part of the MECO (Middle Eocene Climatic Optimum) based on the age of the sediment and the laminated and dark color, which could represent low oxygen and increased dissolution. Laminated sediments occur in section 1 between 0 and 44 cm and 99 and 102 cm; from section 3 at 112 cm to section 4 at 134 cm; and in section 6 between 14 and 24 cm. Mottling is pervasive throughout this core. Ichnofossils occur in thin to medium thick beds occurring at the decimeter to meter scale throughout this core and include Planolites, Skolithos, Thalassinoides, Chondrites, Helminthopsis, and Arenicolites. Diversity ranges from 1 to four and the maximum diameter ranges from 2 to 16 mm. Moderate to severe drilling disturbances occurred throughout the core consisting of biscuited and fractured cores; however, in sections 4 and 5 the cores are mainly destroyed by biscuiting.



Hole 393-U1558F Core 24X, Interval 168.0-175.43 m (CSF-A)

Core 24X consists of pink (7.5YR 7/3) nannofossil chalk with clay. Foraminiferal abundances increase to above 10% in section 2 and extend to the bottom of this core. The sediments are mainly laminated although the severe drilling disturbances makes it difficult to observe bedding in many cases. Ichnofossils are sparse to absent in this core. Ichnofossils are restricted to thin beds occurring at the meter scale that include Chondrites, Thalassinoides and Planolites. Diversity is low (1-2) and the maximum diameter ranges from 2 to 13 mm. Moderate to severe drilling disturbances occurred throughout the core consisting of biscuited and fractured cores with many intervals destroyed by drilling disturbances.

