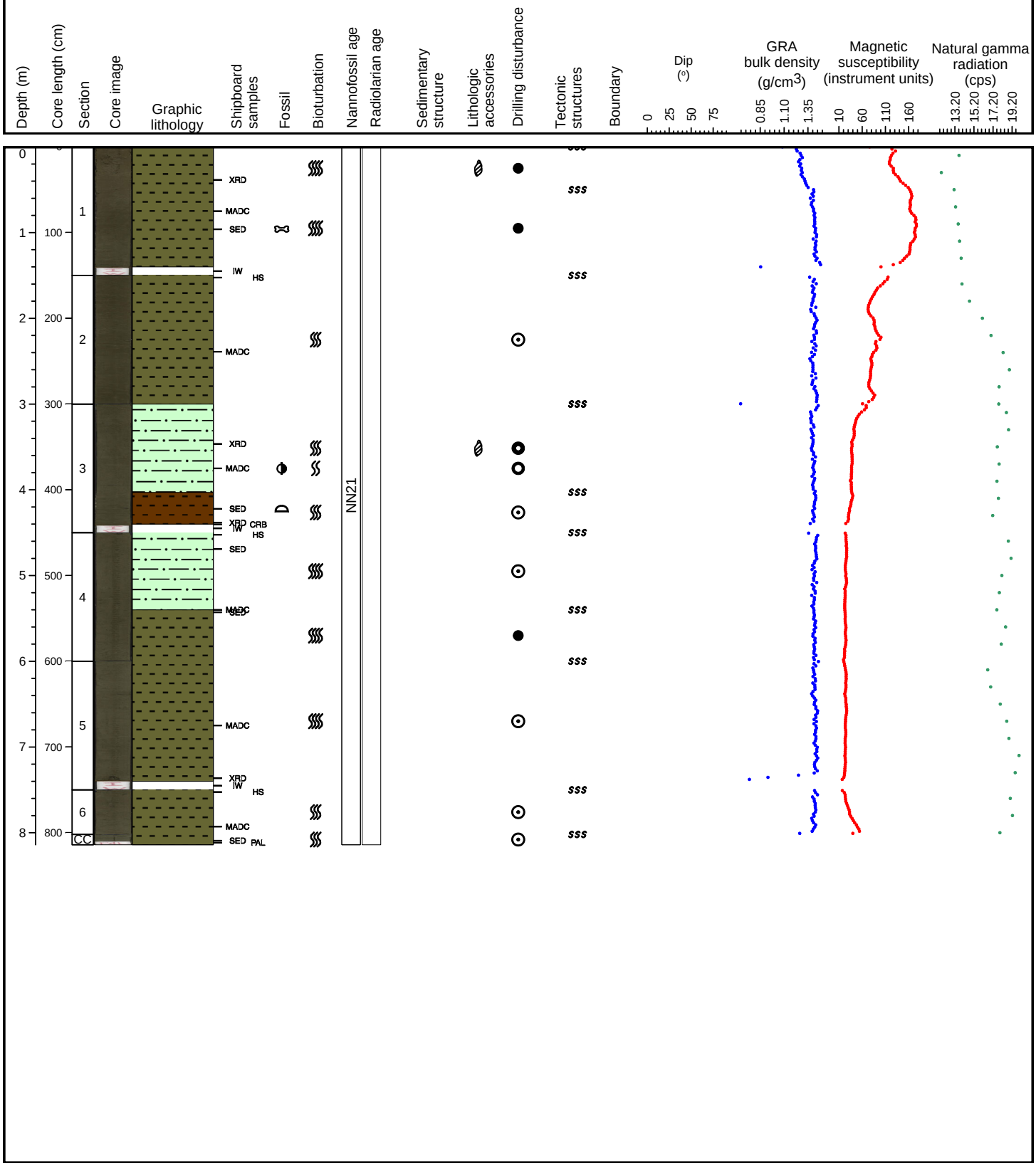
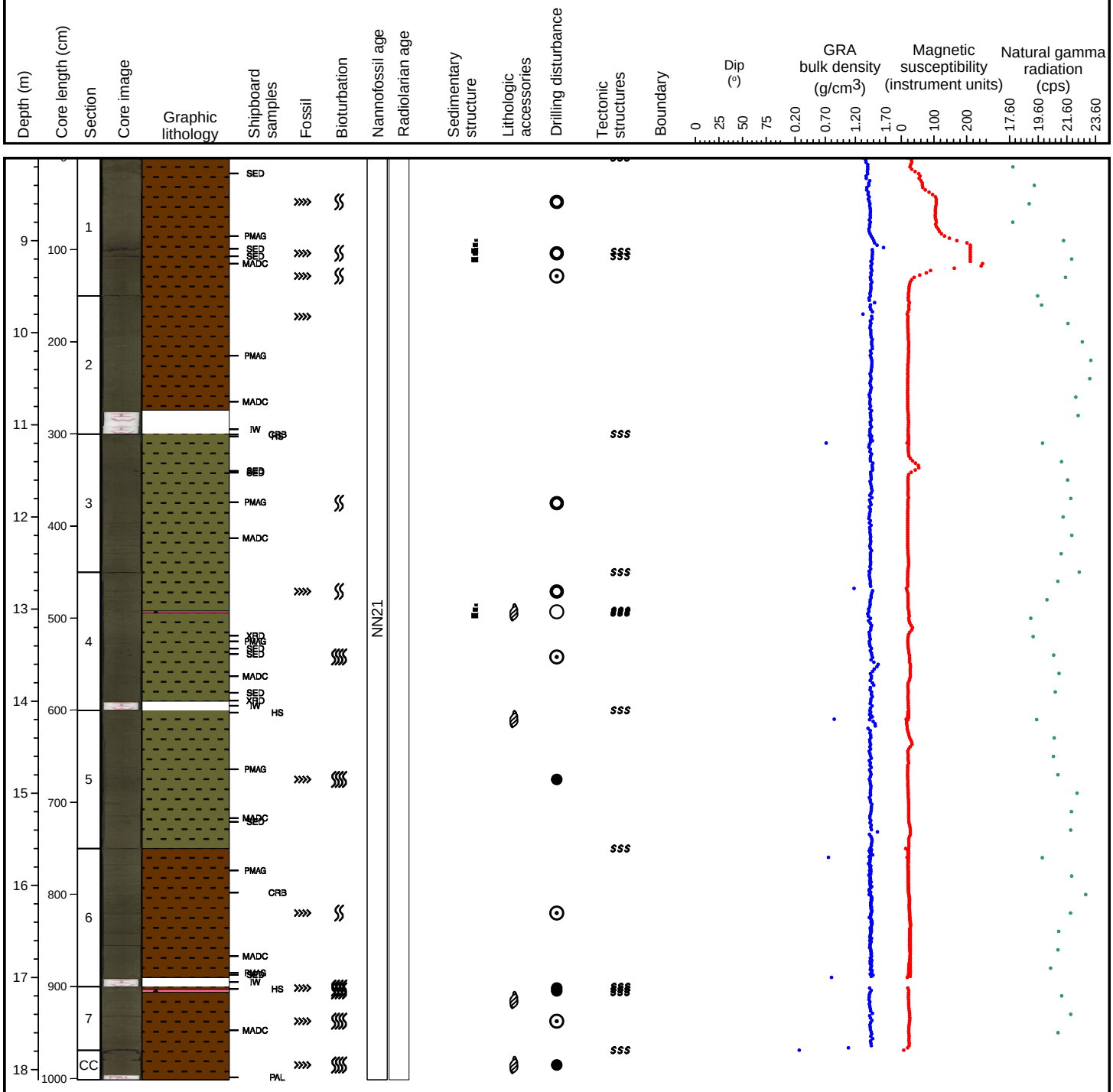
Hole 344-U1381C Core 1H, Interval 0.0-8.14 m (CSF-A)

Massive silty clay and clayey green-grey silt with six intercalated brown and light ash layers. One horizon at section 5 between 85 and 98 cm contains wood fragments. Light colored sand-sized shell fragments scattered throughout the core.



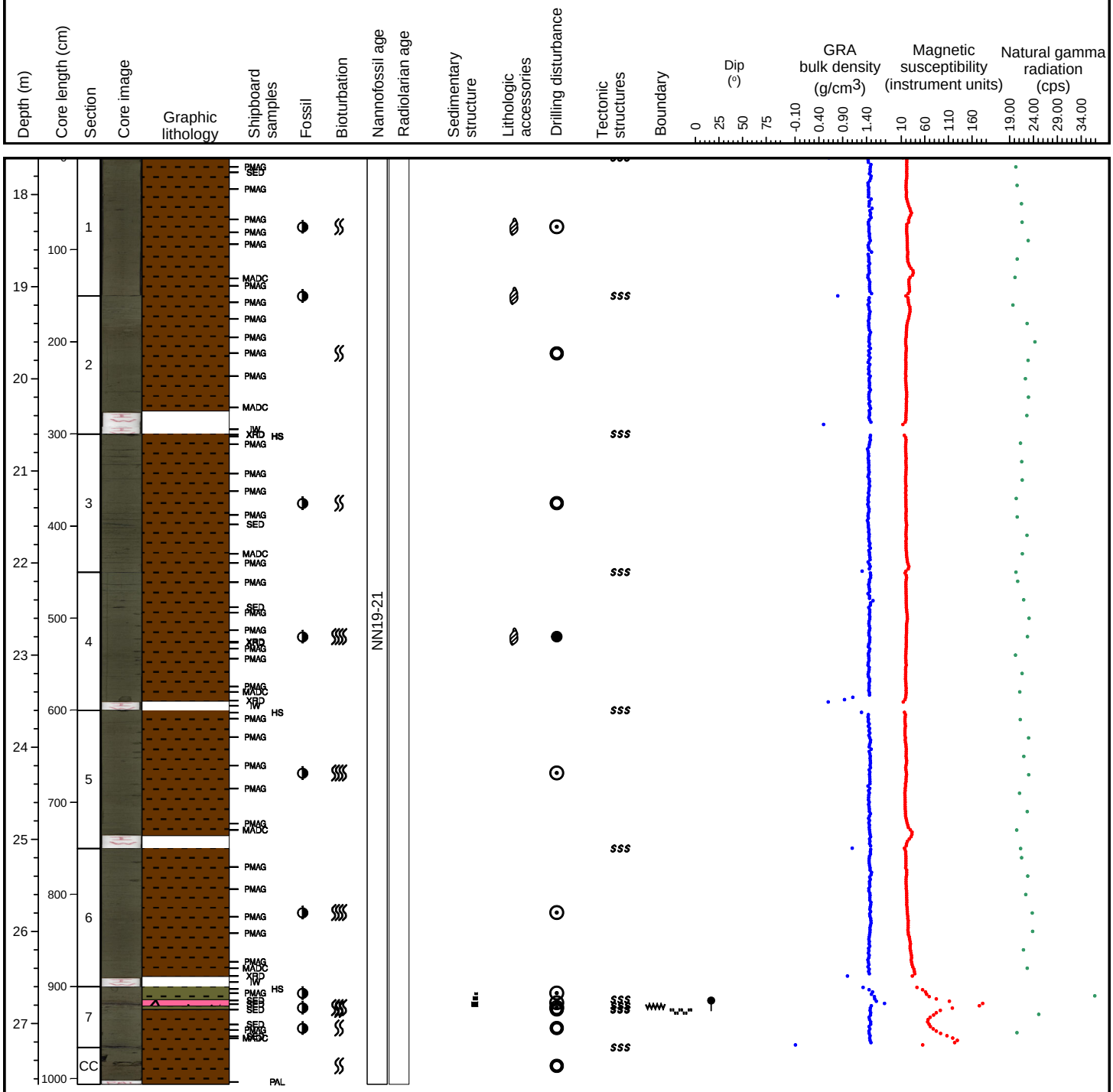
Hole 344-U1381C Core 2H, Interval 8.1-18.11 m (CSF-A)

Massive, dark grayish green clay alternating with some diffuse beds of silty clay to clayey silt that is brownish grayish green in color. Coarser grain fraction is mostly composed out of foraminifers. Tephra layers in section 1 at 99 and 107 cm; section 4 at 45 cm; section 7 at 5 cm. Ash pods throughout the core and a large burrow at 55 to 56 cm in section 2 followed by a 5 cm thick horizon of shell fragments. Fossils present: radolarians, spicules, foraminifers and diatoms.



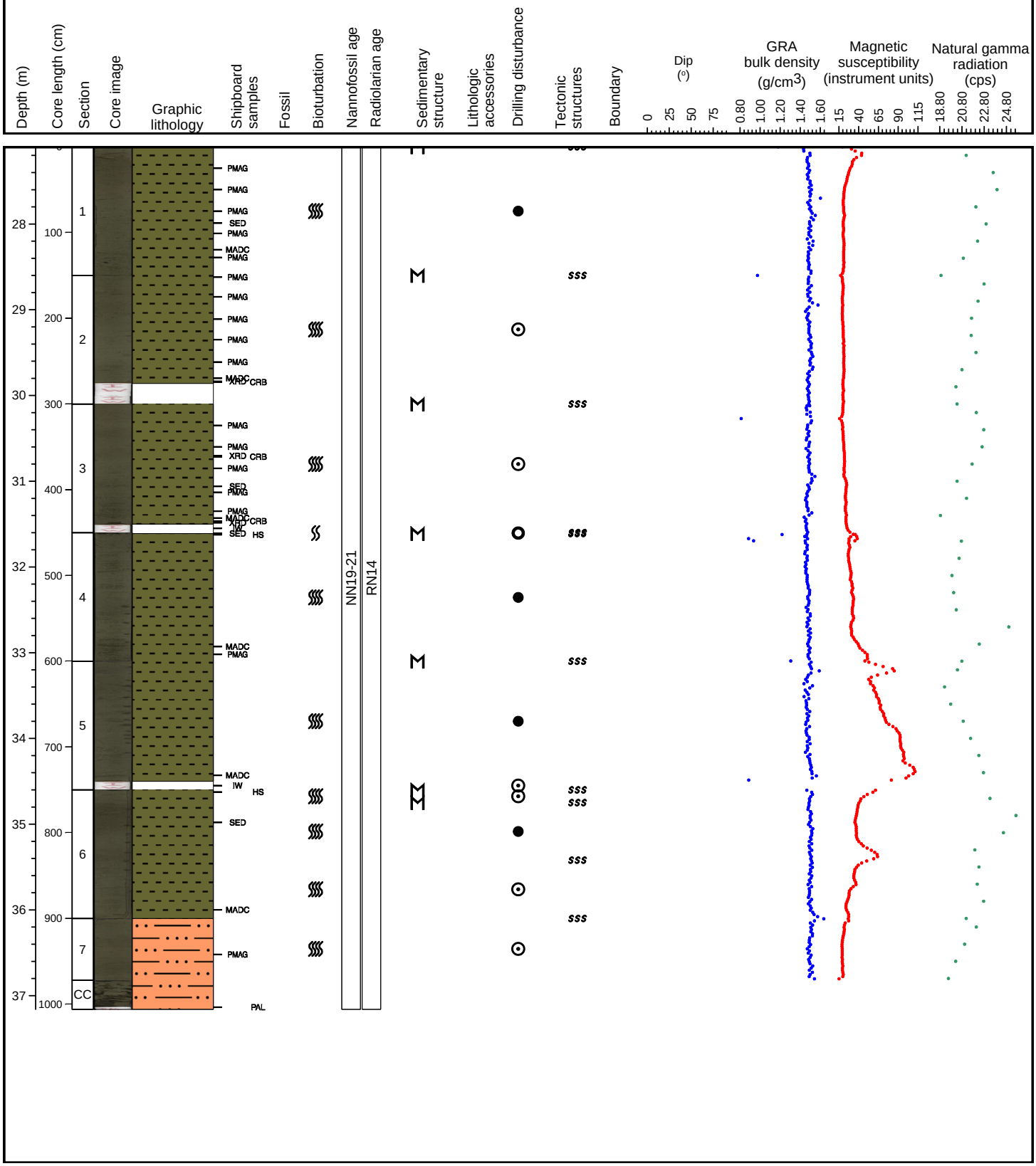
Hole 344-U1381C Core 3H, Interval 17.6-27.66 m (CSF-A)

Homogenous, massive greenish grayish clay with minor interlayered silty clay containing feldspar and ferromagnesian minerals. Foraminifer-rich matrix also contains abundant nannofossils, rare diatoms and accessory radiolarian. Bioturbation becomes more common toward the base and is characterized by framboidal pyrite concretions. Two dominant felsic ash layers in section 7 at 14 to 21 cm and 23.5 to 24 cm.



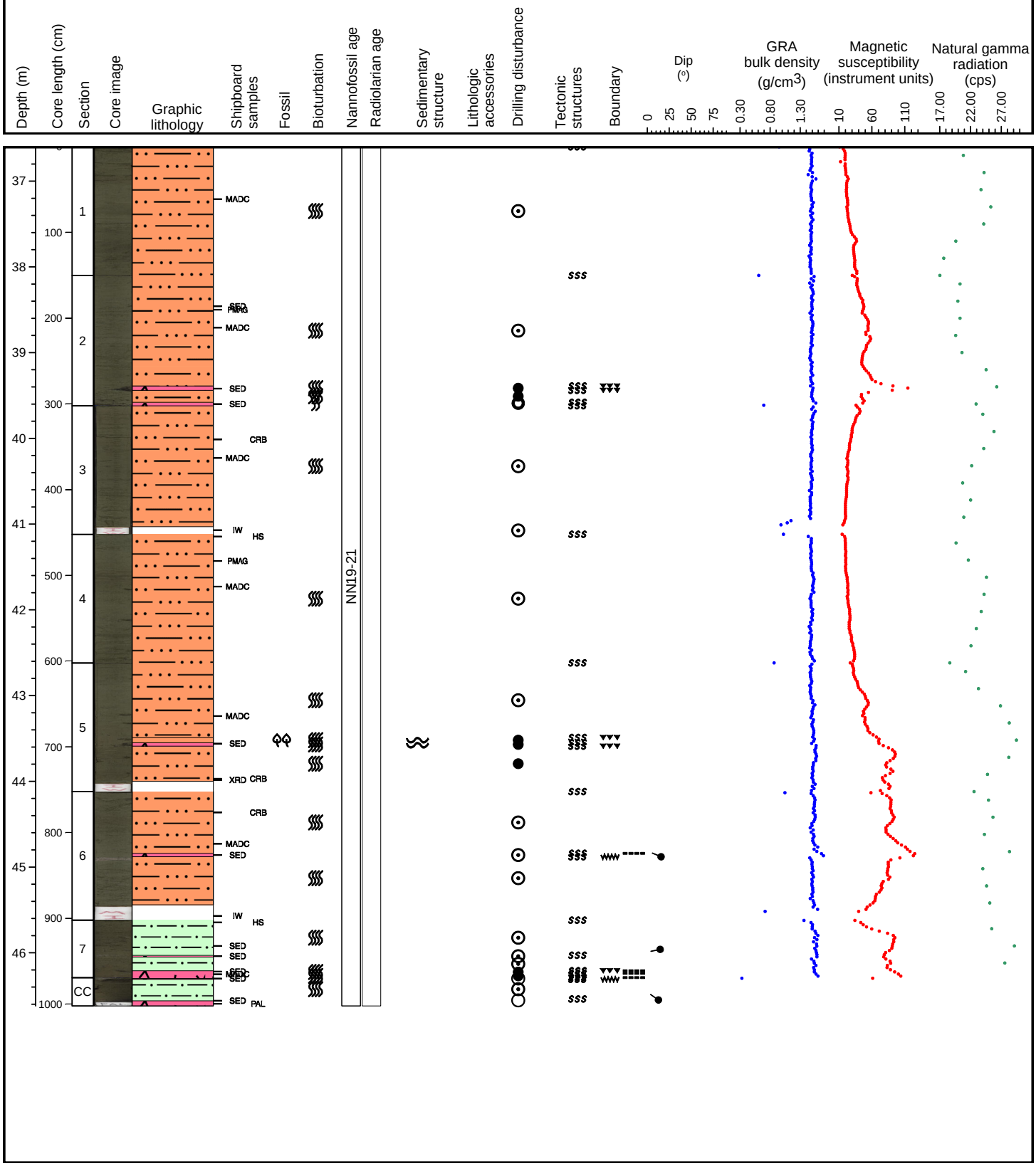
Hole 344-U1381C Core 4H, Interval 27.1-37.16 m (CSF-A)

Massive silty gray-green clay with trace amounts of sand-sized light colored shells scattered throughout core. Blackish pyrite streaks throughout core are common. Lithified clast at 1 cm in section 4. Core is slightly darker in color in section 5, between 15 and 82 cm but becomes lighter towards the bottom. Bioturbation is common.



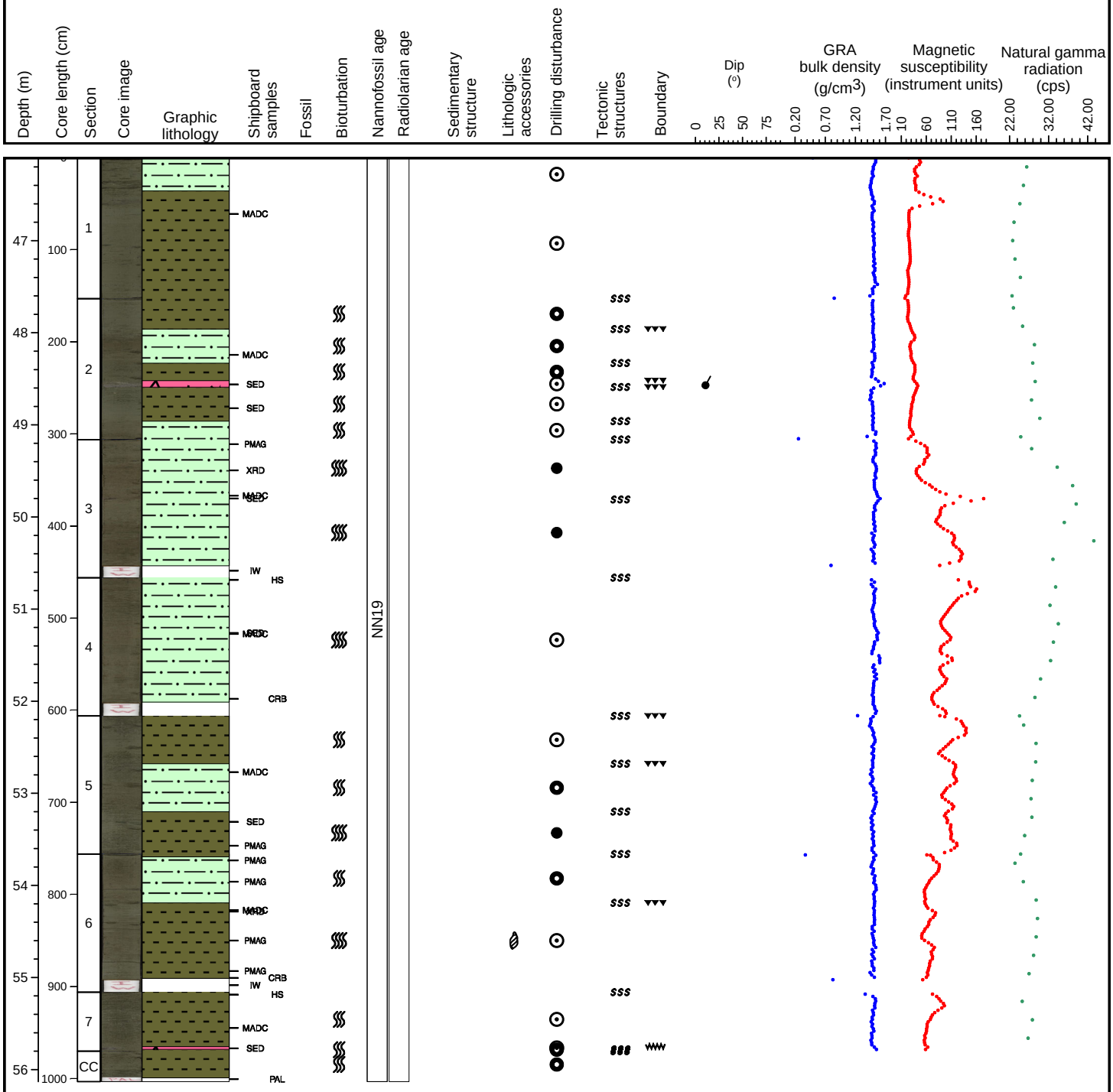
Hole 344-U1381C Core 5H, Interval 36.6-46.62 m (CSF-A)

Massive medium to dark greenish gray silty-sandy clay becomes clayey silt towards the bottom. Ash layers are common and there are multiple ash pods scattered throughout the core. Bioturbation is common and characterized by pyrite lenses. Additional matrix components are abundant feldspar, pyrite and hornblende with rare quartz. Significant ash layers present in section 2 between 129 and 134 cm and 148 to 150 cm; section 5 between 92 and 97 cm; section 6 between 72 and 76 cm; section 7 between 41 and 43 cm, 53 and 57 cm and 62 to 67 cm, and in the core catcher (CC) between 0 to 2 cm and 25 to 28 cm.



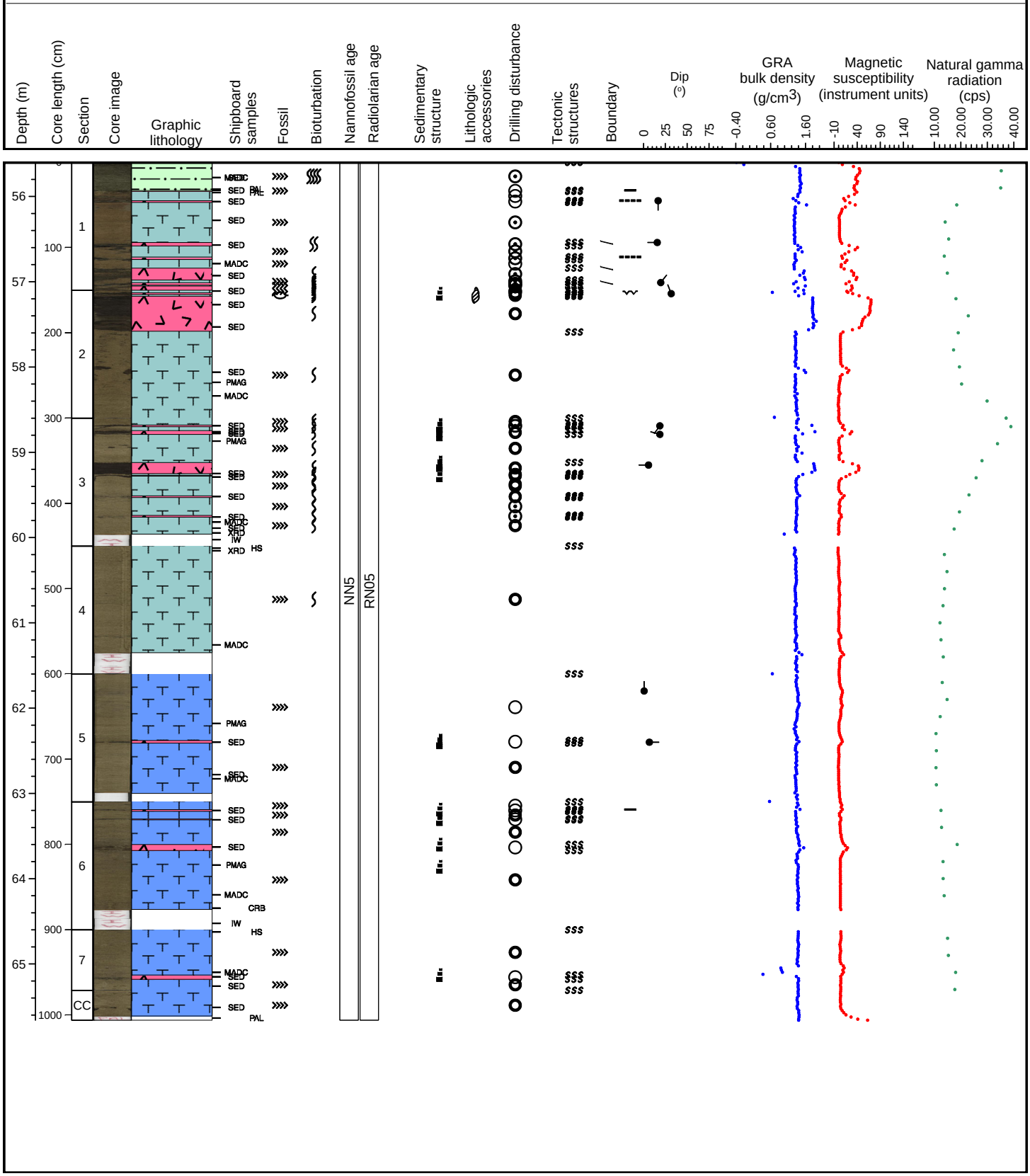
Hole 344-U1381C Core 6H, Interval 46.1-56.13 m (CSF-A)

Silty clay alternating with clayey silt . Pyrite and sand-size shell and foraminifera fragments scattered throughout the core. Dark and light colored fallout ash layers in section 2 at 89 cm and section 7 at 59 cm. Ash pods commonly observed.



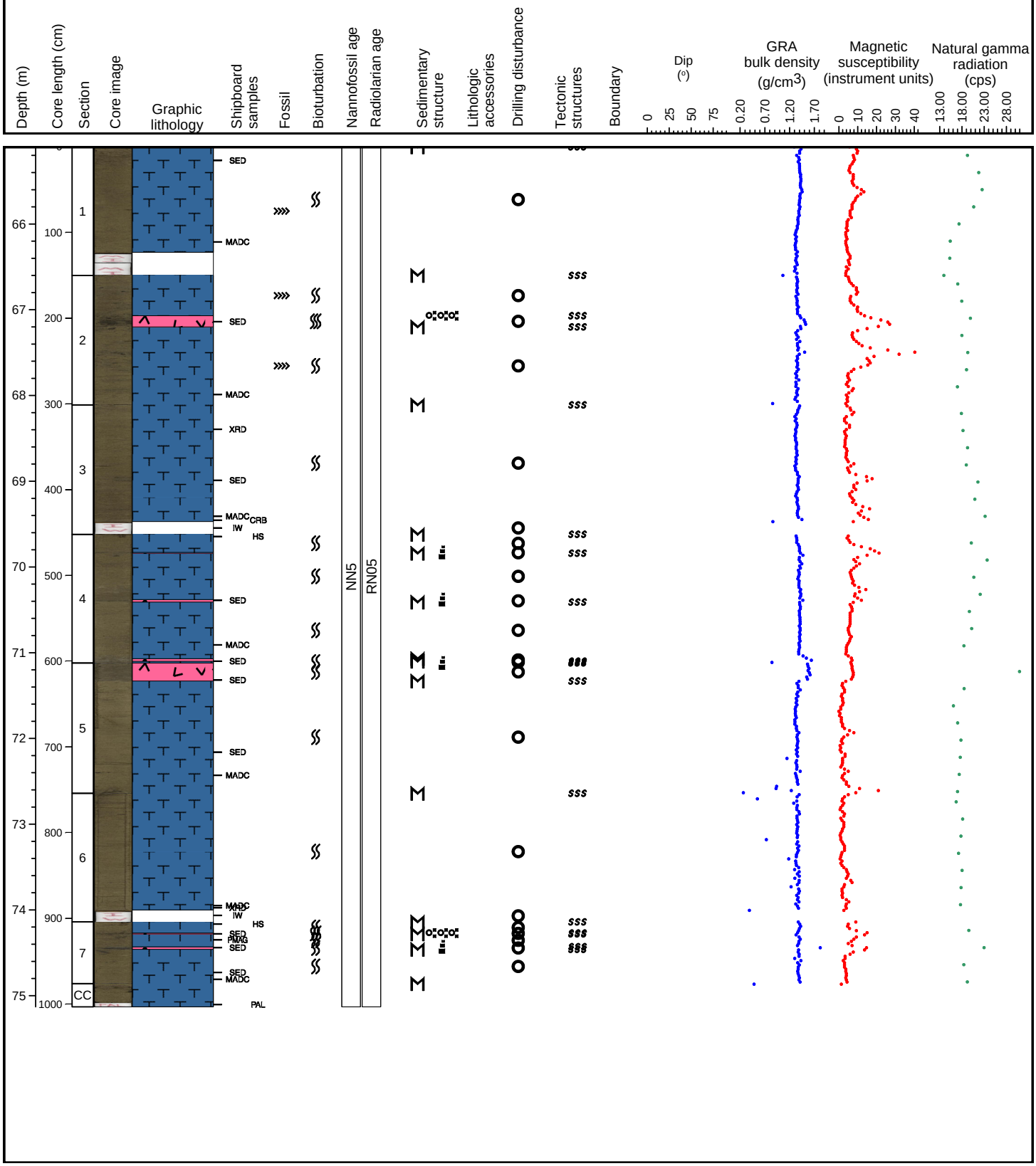
Hole 344-U1381C Core 7H, Interval 55.6-65.66 m (CSF-A)

The core is remarkable in having a lithological boundary that is characterized by a change from a greenish gray silty-clay with some nannofossils and terrigenous minerals in the upper 33 cm of section 1, into a brownish gray nannofossil dominated ooze with abundant to common foraminifera and sponge spicules. Abundant and somewhat thick ash layers can be found in section 1 at 33 cm, 44 cm, 94 cm, 111 cm, 124 cm, 141 cm and 145 cm; section 2 at 3 cm and 7 cm; section 3 at 8 cm, 14.5 cm, 52 cm, 67 cm, 91 cm and 114 cm; section 5 at 78 cm; section 6 at 9 cm, 20 cm and 50 cm; section 7 at 53 cm. Ash layers are characterized by predominantly brownish mafic glass shards.



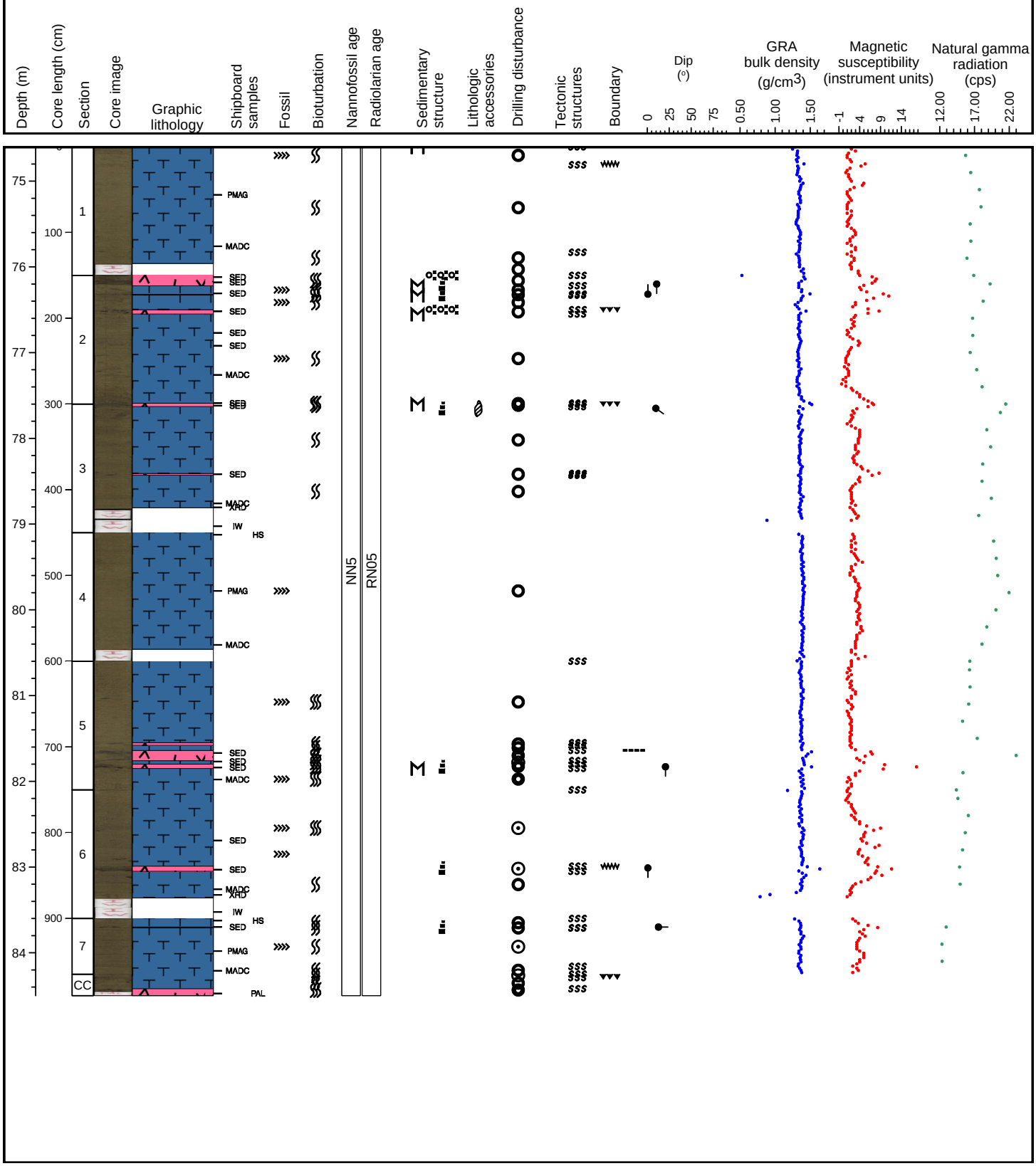
Hole 344-U1381C Core 8H, Interval 65.1-75.13 m (CSF-A)

Massive brownish gray nannofossil ooze with abundant to common foraminifera, abundant spicules, rare radiolarian and common to rare glass shards. Tephra layers throughout the core in section 2 at 47 to 59 cm; Section 4 at 21 to 23 cm, 76 to 78 cm and 43 to 48 cm; section 5 at 0 to 22 cm; section 7 at 11 to 14 cm and 28 to 31 cm.



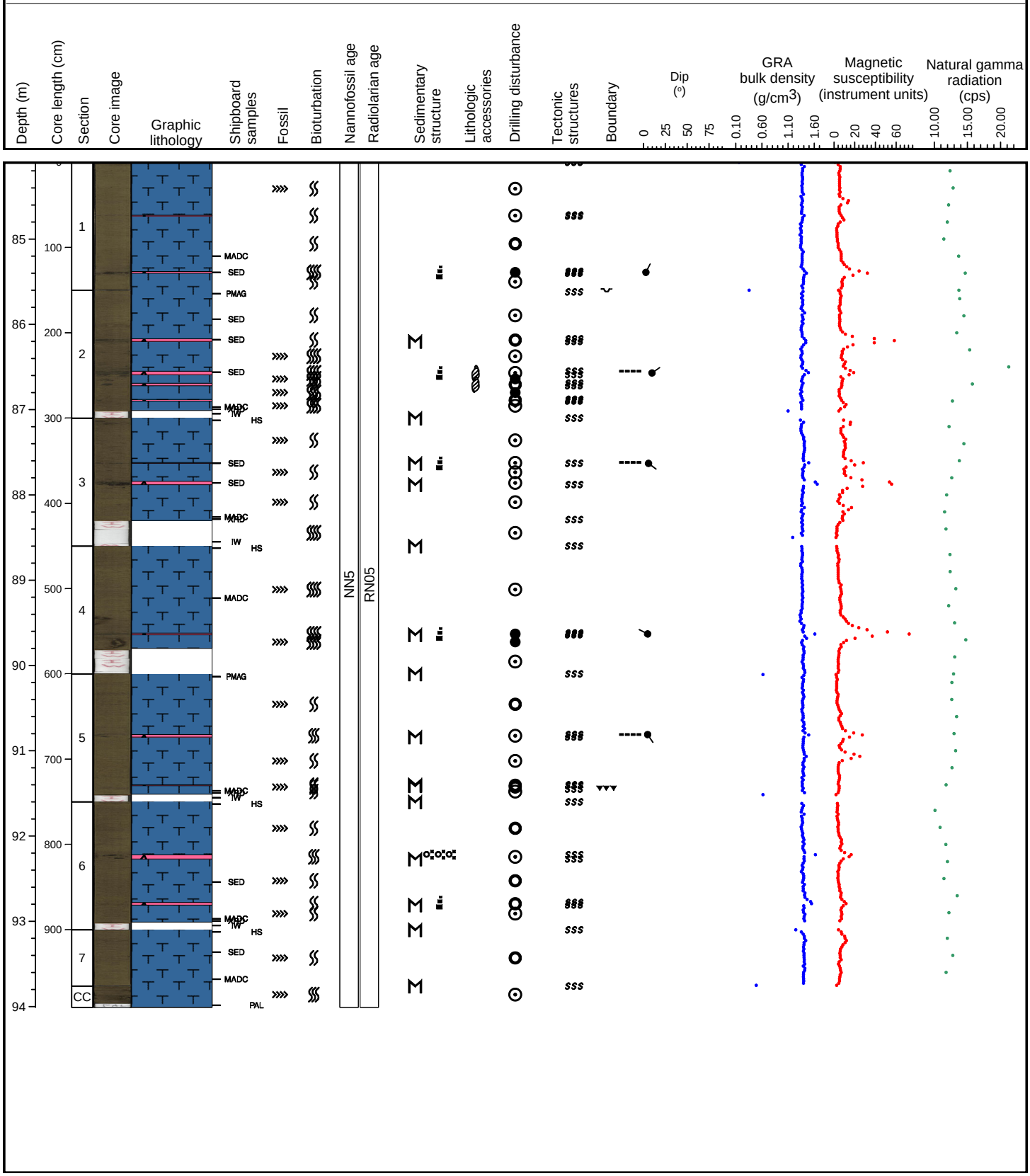
Hole 344-U1381C Core 9H, Interval 74.6-84.5 m (CSF-A)

Massive brownish gray nannofossil ooze, with abundant to common foraminifera, abundant spicules, rare radiolarian and common to rare glass shards. Zeolites forming in sediment matrix. Tephra layers and ash pods throughout the core in sections 2 at 0 cm, 22 cm, 40 cm and 49 cm; section 3 at 0 cm and 81 cm; section 5 at 95 cm and 104 cm; section 6 at 89 cm; section 7 at 11 cm and in the core catcher (CC) at 17 cm.



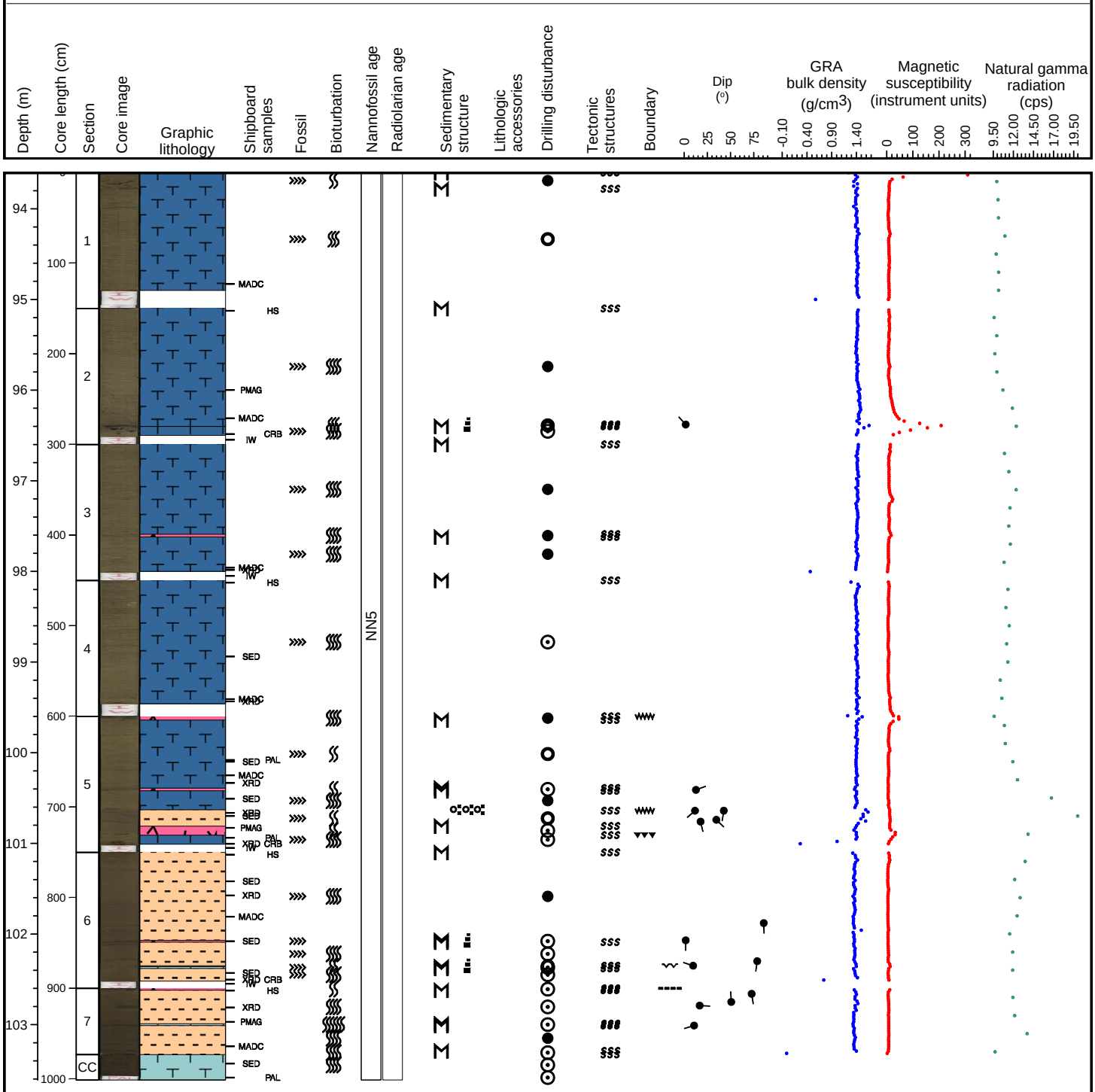
Hole 344-U1381C Core 10H, Interval 84.1-94.01 m (CSF-A)

Massive brownish gray nannofossil dominated ooze, with abundant to common foraminifera, abundant spicules, rare radiolarian and common to rare glass shards. Zeolites forming in sediment matrix. Tephra layers and ash pods throughout the core in sections 1 at 62 cm and 128 cm; section 2 at 57 cm and 95 cm; section 3 at 52 cm and 74 cm; section 4 at 104 cm; section 5 at 71 cm and section 6 at 74 cm.



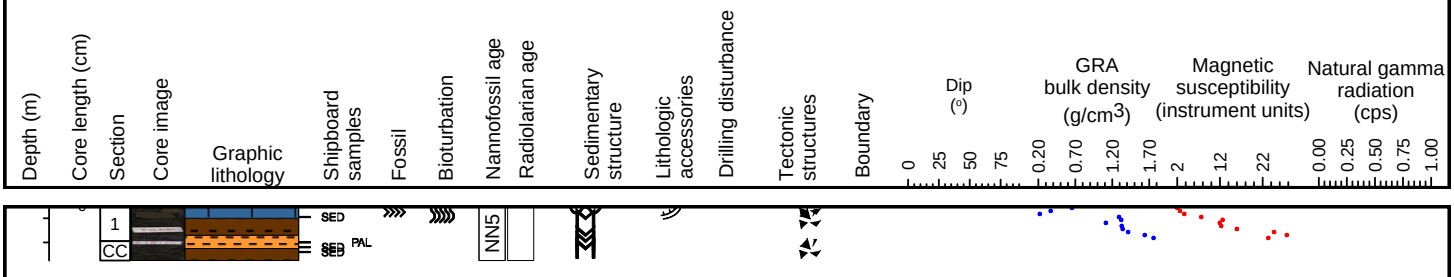
Hole 344-U1381C Core 11H, Interval 93.6-103.61 m (CSF-A)

Massive dark brownish gray clay-rich nannofossil ooze, with abundant to common foraminifera, minor sponge spicules, radiolaria and diatoms. Lower sections are clay-rich (with common pyrite) but sediment is more silty from section 5 upward. A lithologic unit change to a calcareous clay is marked by clear, sharp differences in color, grain size and components, and occurs in section 7 at 104 cm. Clay is cross-cut by 10 and 12 cm long veins with secondary mineral filling. One vein appears to be a fault.



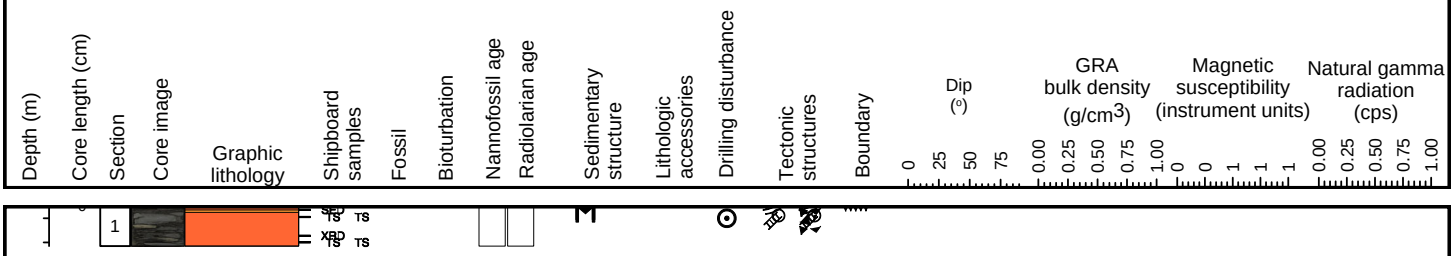
Hole 344-U1381C Core 12H, Interval 103.1-103.55 m (CSF-A)

Highly fragmented core segments of greenish black sediments show a lithologic boundary between the clayey nannofossil ooze that is laminated and contains rounded claystone clasts in the transition to the underlying pure clay to claystone (dark brown to grey) lithology with very rare nannofossils.

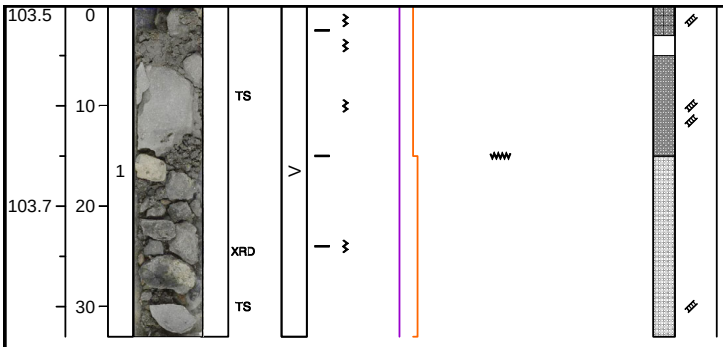


Hole 344-U1381C Core 13X, Interval 103.5-103.83 m (CSF-A)

Basaltic basement with layers of black claystone intercalated between 3 to 5 cm depth and between 15 to 33 cm depth. Between intervals 5 and 15 cm a larger pale gray plagioclase-pyric slightly vesicular basalt piece is present which may represent a large clast. Clasts are composed of basalt and glassy rinds and are variably coated with sulfide minerals. A number of clasts retain curved, fresh glassy margins.



Hole 344-U1381C-13X Section 1, Top of Section: 103.5 m (CSF-A)



Description

Unit: V
LITHOLOGY: Basaltic breccia
VOLCANIC DESCRIPTION: Poorly sorted basalt clastic breccia with microcrystalline clasts and a preserved matrix of basaltic origin in the top 5 cm of the core. A number of clasts within the rubbly interval contain discontinuous fresh glassy margins.
TEXTURE: Clasts are variolitic to intersertal and are clinopyroxene-palgioclase phyric.
COLOR: Pale grey to dark grey
PHENOCRYSTS: Plagioclase and clinopyroxene
GROUNDMASS: Microcrystalline to cryptocrystalline (in chilled margins)
VESICLES: Sparsely vesicular (3%) with an irregular but moderately rounded shape. They are randomly distributed, 10% filled.
ALTERATION: Groundmass within clasts are slightly altered with partial replacement of phenocrysts and intersertal areas by saponite and pyrite. Vesicles are part filled with saponite and these are flanked by narrow pyrite rich halos. The matrix is almost totally altered to clay minerals and numerous pyrite crystals. Clasts are partially to completely coated by sulfide (pyrite) mineralization.
VEINS: Two narrow (0.1mm) pyrite veins are present within two clasts.
STRUCTURE: Interval 0-5 cm includes preserved matrix and clasts. Interval 15-33 cm is rubble.

Sample	Top Depth [m]	Bottom Depth [m]	Description of where smear slide taken	Actinolite abundance	Tephra	Siliciclastic	Detrital carbonate	Biogenic carbonate	Clay minerals abundance	Opaques abundance	Feldspar abundance	Quartz abundance	Glass abundance	Halite abundance	Calcite, allogenic abundance	Amphibole abundance	Pyroxene abundance	Chalcedony abundance	Biotite abundance	Chlorite abundance	Other mineral	Other mineral	Microfossil abundance	Diatoms abundance	Calcareous nannofossils abundance	Foraminifera abundance	Radiolarians abundance	Sponge spicule fragments abundance	Silicoflagellate, ebridian, actiniscidian abundance	Microfossil comment	Macrofossil (fauna) abundance	Macrofossil (fauna) comment	Rock fragment - sedimentary lithic	Rock fragment - volcanic lithic	Rock fragment - plutonic lithic	Principal lithology	General smear slide comment
344-U1381C-1H-1-A	0.96	0.96	sediment matrix		C	D	C	C	D		C	C	C		C								C	C	C		C	C		fragments and coccoliths	C						
344-U1381C-1H-1-A 96/97-SS	0.96	0.965	biogenic carbonate matrix				R	D	C	R	C	C		R	R	C	C	R	R				D	A	D			R					C					
344-U1381C-1H-3-A	4.21	4.21	sediment clasts		A	D		C																													
344-U1381C-1H-3-A	4.22	4.22	sediment matrix			M	C		D						C								C					C		coccoliths	C						
344-U1381C-1H-3-A 122/123-SS	4.22	4.225	biogenic carbonate matrix		R		R	D	C	R	C	C	R	C	R	C	C	R	R				D	D				A										
344-U1381C-1H-3-A 122/123-SS-SS	5.43	5.43	sediment matrix				R	A	C	C	A	C			R	C	C						A	M		C		R					R					
344-U1381C-1H-4-A	4.69	4.69	sediment matrix																																		
344-U1381C-1H-4-A 19/20-SS	4.69	4.695	sediment matrix		R		C	A	C	R	C	C	R		C	C	C	C	C				A	D	A			R					R					
344-U1381C-1H-CC-A	8.09	8.09	sediment matrix																																		
344-U1381C-1H-CC-A 7/8-SS	8.09	8.095	sediment matrix				C	A	C	R	C	C		R	C	C	C						A	A	D			R					C					
344-U1381C-2H-1-A 107/107-SS	9.17	9.17	sediment matrix		C		C	A	C	R	A	C	C	R	C	R	R	C	C				A	D	A			R					A					
344-U1381C-2H-1-A 17/17-SS	8.27	8.27	sediment matrix				C	A	C	R	C	C		R	C	R	R						A	D	A			R	R				C					
344-U1381C-2H-1-A 99/99-SS	9.09	9.09	sediment matrix		C		C	A	C	R	C	C	C	R	C								A	D	A			R					C					
344-U1381C-2H-3-A 40/40-SS	11.5	11.5	sediment matrix		C		R	C	C	C	A	C	C	C	R	R	R	R	R				C	A	A	C		C					C					
344-U1381C-2H-3-A 42/42-SS	11.52	11.52	sediment matrix		R		C	A	C	A	C	C	R	C	C								A	A	A	C		C					C					
344-U1381C-2H-4-A 131/131-SS	13.91	13.91	sediment matrix		A		C	A	C	A	C	C	A	R	C	R	R	C	C				A	D	A			C					C					
344-U1381C-2H-4-A 83/83-SS	13.43	13.43	sediment matrix		R		A	A	C	R	A	C	R	R	A	R	R	R	R				A	A	A	A		R	C				C					
344-U1381C-2H-4-A 89/89-SS	13.49	13.49	sediment matrix		R		C	A	C	A	A	C	R	R	C	R	R	R	R				A	A	D	C		R					C					
344-U1381C-2H-5-A 121/121-SS	15.31	15.31	sediment matrix		A		R	A	R	A	C	C	A	R	R	R	R	C	C				A	M				C					R					
344-U1381C-2H-6-A 137/137-SS	16.97	16.97	sediment matrix		A		R	C	C	C	A	C	A	R	R	R	R						C	D	A			C					R					
344-U1381C-3H-1-A 16/16-SS	17.76	17.76	biogenic carbonate matrix		C		C	D	C	R	C	C	C	R	C	R	R						D	C	M	C		R					C					
344-U1381C-3H-3-A 98/98-SS	21.58	21.58	sediment matrix		C		C	A	C	C	C	C	C	R	C	R	R						A	C	M	C		R					C					
344-U1381C-3H-4-A 38/38-SS	22.48	22.48	tuffeaceous matrix		D		R		C	A	R	R	D		R	R	R																C					
344-U1381C-3H-7-A 15/15-SS	26.75	26.75	tuffeaceous matrix		M		R	R	R	R	C	C	M		R	R	R	R	R				R	A	D			R					R					
344-U1381C-3H-7-A 19/19-SS	26.79	26.79	tuffeaceous matrix		M			R	C	C	C	C	M			C	C						R	M	R	R	R	R					C					
344-U1381C-3H-7-A 25/25-SS	26.85	26.85	tuffeaceous matrix		M		R	R	C	C	C	C	M		R	R	R	R	R				R	M	C	R		R					C					
344-U1381C-3H-7-A 41/41-SS	27.01	27.01	biogenic carbonate matrix				C	D	C	R	C	C		R	C	R	R	R	R				D	M	C	C	R	R					R					
344-U1381C-3H-7-A 54/54-SS	27.14	27.14	biogenic carbonate matrix		C		C	M	C	R	C	C	C	R	C	R	R	R	R				M	M	C	C	R	R					R					
344-U1381C-4H-1-A	27.99	27.99	sediment matrix																																		
344-U1381C-4H-1-A 89/89-SS	27.99	27.99	sediment matrix		R		C	A	C	R	C	C	R	C	C	C	C						A	A	A	C		C					C					
344-U1381C-4H-3-A	31.06	31.06	halo																																		
344-U1381C-4H-3-A 96/96-SS	31.06	31.06	sediment matrix		R		C	A	C	R	C	C	R	R	C	C	C						A	A	A	C		R					C					
344-U1381C-4H-4-A	31.61	31.61	misc lithology clasts																																		

Sample	Top Depth [m]	Bottom Depth [m]	Description of where smear slide taken	Actinolite abundance	Tephra	Siliciclastic	Detrital carbonate	Biogenic carbonate	Clay minerals abundance	Opaques abundance	Feldspar abundance	Quartz abundance	Glass abundance	Halite abundance	Calcite, allogenic abundance	Amphibole abundance	Pyroxene abundance	Chalcedony abundance	Biotite abundance	Chlorite abundance	Other mineral	Other mineral	Microfossil abundance	Diatoms abundance	Calcareous nannofossils abundance	Foraminifera abundance	Radiolarians abundance	Sponge spicule fragments abundance	Silicoflagellate, ebridian, actiniscidian abundance	Microfossil comment	Macrofossil (fauna) abundance	Macrofossil (fauna) comment	Rock fragment - sedimentary lithic	Rock fragment - volcanic lithic	Rock fragment - plutonic lithic	Principal lithology	General smear slide comment
344-U1381C-4H-4-A 1/1-SS	31.61	31.61	sediment matrix		C		C	A	C	C	C	C	C	R	C	R	R						A	A	A	R	C	C					C				
344-U1381C-4H-6-A	34.98	34.98	sediment matrix																																		
344-U1381C-4H-6-A 38/38-SS	34.98	34.98	sediment matrix		R		C	A	C	R	C	C	R		C	R	R						A	A	A	R	C	C					C				
344-U1381C-5H-2-A 132/132-SS	39.42	39.42	sediment matrix		A		C	A	C	C	C	C	A	R	C	C	C						A	D	A		C						C				
344-U1381C-5H-2-A 150/150-SS	39.6	39.6	sediment matrix		A		C	A	C	C	C	C	A	R	C								A	D	A	R		R					C				
344-U1381C-5H-2-A 36/36-SS	38.46	38.46	biogenic carbonate matrix		R		C	D	C	R	C	C	R	R	C	C	C						D	A	A		C	R					C				
344-U1381C-5H-5-A 94/94-SS	43.56	43.56	biogenic carbonate matrix		R		C	D	C	R	C	R	R	R	C	R	R	C	C				D	A	D	C							C				
344-U1381C-5H-6-A 74/74-SS	44.86	44.86	sediment matrix		A		R		R	R	A	C	A		R	C	C																R				
344-U1381C-5H-7-A 30/30-SS	45.92	45.92	sediment matrix		R		C	A	C	C	C	C	R	R	C	R	R						A	D	A	C							C				
344-U1381C-5H-7-A 42/42-SS	46.04	46.04	sediment matrix		A		R	R	R	R	A	C	A	R	R	C	C						R	A	D								R				
344-U1381C-5H-7-A 60/60-SS	46.22	46.22	sediment matrix		C		C	A	C	R	A	C	C		C	C	C	R	R				A	A	D	R		R					C				
344-U1381C-5H-CC-A 1/1-SS	46.3	46.3	tuffeaceous matrix		D			R	R	R	A	C	D			C	C						R	M		R		R									
344-U1381C-5H-CC-A 27/27-SS	46.56	46.56	tuffeaceous matrix		D		R	R	R	C	C	C	D		R	C	C	R	R				R	M													
344-U1381C-6H-2-A 119/119-SS	48.82	48.82	biogenic carbonate matrix		R		R	D	C	R	C	C	R		R	C	C						D	D	A	C		R					C				
344-U1381C-6H-2-A 93/93-SS	48.56	48.56	tuffeaceous matrix		M		R	R	R	R	C	C	M		R	R	R						R	M	R								R				
344-U1381C-6H-3-A 64/64-SS	49.8	49.8	tuffeaceous matrix		D		R	C	R	R	C	C	D		R	C	C						C	D	A	R		R					R				
344-U1381C-6H-4-A 60/60-SS	51.26	51.26	biogenic carbonate matrix		C		R	D	R	R	A	C	C	R	R	C	C						D	D	A								R				
344-U1381C-6H-5-A 115/115-SS	53.31	53.31	biogenic carbonate matrix				C	D	C	R	C	C			C	R	R						D	D	A								R				
344-U1381C-6H-7-A 61/61-SS	55.77	55.77	sediment matrix		R				R	R	D	A	R			C	C																				
344-U1381C-7H-1-A 133/133-ss	56.93	56.93	tuffeaceous matrix		D		C	R	C	R	C	R	D		C			R	R				R	R	D	A							C				
344-U1381C-7H-1-A 18/18-ss	55.78	55.78	biogenic carbonate matrix				C	D	C	R	C	C		R	C	R	R						D	C	D	A		R					R				
344-U1381C-7H-1-A 33/33-ss	55.93	55.93	tuffeaceous matrix		D		C	C	C	R	C	R	D	R	C	R	R						C	D	C	A		R					C				
344-U1381C-7H-1-A 46/46-ss	56.06	56.06	sediment matrix		A		C	A	C	R	C	C	A		C	R	R	C	C				A	C	D	A		R					C				
344-U1381C-7H-1-A 68/68-ss	56.28	56.28	biogenic carbonate matrix				C	D	C	R	R	R			C			C	C				D	C	C	D	C	C	R				C				
344-U1381C-7H-1-A 97/97-ss	56.57	56.57	tuffeaceous matrix		D		C			C	R	R	D		C	R	R	C	C														C				
344-U1381C-7H-2-A 1/1-ss	57.11	57.11	sediment matrix		A		C	A	C	C	C	R	A		C			R	R				A	C	D	C	R	C					C				
344-U1381C-7H-2-A 17/17-ss	57.27	57.27	sediment matrix		A		C	A	C	C	C	R	A		C	R	R	R	R				A	C	D	C		C					C				
344-U1381C-7H-2-A 43/43-ss	57.53	57.53	tuffeaceous matrix		D		R	A	A	C	C	R	D		R	R	R	R	R				A	A	A	C		A					A				
344-U1381C-7H-2-A 96/96-ss	58.06	58.06	biogenic carbonate matrix		A		C	D	C	C	C	R	A		C	R	R	R	R				D	D	C	A		R					C				
344-U1381C-7H-3-A 116/116-ss	59.76	59.76	tuffeaceous matrix		D		C	C	C	C	C	R	D		C	R	R	R	R				C	C	A	A		R					C				
344-U1381C-7H-3-A 129/129-ss	59.89	59.89	biogenic carbonate matrix		C		C	D	C	R	R	R	C	R	C	R	R	R	R				D	A	A	C		C					R				
344-U1381C-7H-3-A 16/16-ss	58.76	58.76	biogenic carbonate matrix		A		C	D	C	C	C	R	A		C	R	R						D	C	A	D	R	R					R				
344-U1381C-7H-3-A 18/18-ss	58.78	58.78	biogenic carbonate matrix		C		A	D	A	C	C	R	C		A	R	R	R	R				D	A	A	A	R	C					A				
344-U1381C-7H-3-A 65/65-ss	59.25	59.25	tuffeaceous matrix		D		R	C	C	C	C	R	D		R	R	R						C	C	A	D							C				

Sample	Top Depth [m]	Bottom Depth [m]	Description of where smear slide taken	Actinolite abundance	Tephra	Siliciclastic	Detrital carbonate	Biogenic carbonate	Clay minerals abundance	Opaques abundance	Feldspar abundance	Quartz abundance	Glass abundance	Halite abundance	Calcite, allogenic abundance	Amphibole abundance	Pyroxene abundance	Chalcedony abundance	Biotite abundance	Chlorite abundance	Other mineral	Other mineral	Microfossil abundance	Diatoms abundance	Calcareous nannofossils abundance	Foraminifera abundance	Radiolarians abundance	Sponge spicule fragments abundance	Silicoflagellate, ebridian, actiniscidian abundance	Microfossil comment	Macrofossil (fauna) abundance	Macrofossil (fauna) comment	Rock fragment - sedimentary lithic	Rock fragment - volcanic lithic	Rock fragment - plutonic lithic	Principal lithology	General smear slide comment
344-U1381C-7H-3-A 69/69-ss	59.29	59.29	tuffeaceous matrix		M		C	C	R	C	C	R	M		C	R	R	R	R				C	C	C	M							C				
344-U1381C-7H-3-A 9/9-ss	58.69	58.69	tuffeaceous matrix		D		R	C	C	C	C	R	D		R	R	R						C	A	C	D		R					R				
344-U1381C-7H-3-A 92/92-ss	59.52	59.52	biogenic carbonate matrix		A		C	D	C	R	C	R	A		C	R	R						D	A	C	A	R	C	R				C				
344-U1381C-7H-5-A 118/118-ss	62.78	62.78	biogenic carbonate matrix				C	D	A	C	R	R			C								D	A	C	A	R	C					A				
344-U1381C-7H-5-A 80/80-ss	62.4	62.4	sediment matrix		R		C	C	A	R	C	R	R	R	C	C	C						C	A		R		D					D				
344-U1381C-7H-6-A 10/10-ss	63.2	63.2	biogenic carbonate matrix		C		C	D	C	C	C	R	C	R	C	R	R						D	A	A	A		C	R				C				
344-U1381C-7H-6-A 21/21-ss	63.31	63.31	biogenic carbonate matrix		R		C	D	C	C	C	R	R		C	R	R	R	R				D	A		D		C					C				
344-U1381C-7H-6-A 53/53-ss	63.63	63.63	tuffeaceous matrix		D		C	A	C	R	C	R	D		C	R	R						A	A	C	A	R	R					C				
344-U1381C-7H-7-A 55/55-ss	65.15	65.15	tuffeaceous matrix		M		R			R	C	R	M		R			R	R																		
344-U1381C-7H-7-A 66/66-ss	65.26	65.26	biogenic carbonate matrix				C	M	C	R	C	R			C	R	R	R	R				M	A	A	A	R	C	R				R				
344-U1381C-7H-CC-A 20/20-ss	65.51	65.51	tuffeaceous matrix		M		R	R	R	C	C	R	M		R								R		M	R							R				
344-U1381C-8H-1-A 16/16-ss	65.26	65.26	biogenic carbonate matrix		R		C	M	R	R	C	R	R		C	R	R	R	R				M	A	C	A	C	C					R				
344-U1381C-8H-2-A 54/54-ss	67.14	67.14	sediment matrix		A		C	A	C	R	C	R	A	R	C			R	R				A	A	C	A	C	C	R				C				
344-U1381C-8H-3-A 88/88-ss	68.99	68.99	biogenic carbonate matrix		C		C	M	C	R	C	R	C		C			R	R				M	A	C	A	R	C					R				
344-U1381C-8H-4-A 148/148-ss	71.1	71.1	tuffeaceous matrix		D		R	A	C	R	C	R	D		R			R	R				A	A	C	A	R	R					C				
344-U1381C-8H-4-A 77/77-ss	70.39	70.39	biogenic carbonate matrix		C		C	D	C	R	C	R	C		C	R	R						D	A	C	A	R	C					R				
344-U1381C-8H-5-A 20/20-ss	71.32	71.32	biogenic carbonate matrix		C		R	D	C	R	C	R	C	R	R			C	C				D	A	A	A	R	C					R				
344-U1381C-8H-7-A 14/14-ss	74.28	74.28	sediment matrix		C		R	A	C	R	C	R	C	R	R	C	C	R	R				A	A	A	A	R	C					C				
344-U1381C-8H-7-A 30/30-ss	74.44	74.44	tuffeaceous matrix		D				C	A	C	R	D			C	C																				
344-U1381C-8H-7-A 59/59-ss	74.73	74.73	biogenic carbonate matrix		R		R	M	C	R	C	R	R	R	R	R	R	R	R				M	A	C	A	C	C					R				
344-U1381C-9H-2-A 149/149-ss	77.59	77.59	tuffeaceous matrix		M		R			C	R	R	M		R																						
344-U1381C-9H-2-A 21/21-ss	76.31	76.31	sediment matrix						C		A					A	A																				
344-U1381C-9H-2-A 42/42-ss	76.52	76.52	biogenic carbonate matrix		C		R	D	C	C	R	R	C	C	R	R	R						D	C	A	R	R	A					C				
344-U1381C-9H-2-A 67/67-ss	76.77	76.77	biogenic carbonate matrix		C		R	D	C	R	C	R	C	R	R								D	C	A	R	R	A					C				
344-U1381C-9H-2-A 8/8-ss	76.18	76.18	sediment matrix		C		R	C	A	C	C	R	C	R	R								C	A	A	C		C					A				
344-U1381C-9H-3-A 2/2-ss	77.62	77.62	sediment matrix		A		C	A	C	R	C	R	A		C	R	R						A	A	A	C	R	C					C				
344-U1381C-9H-3-A 82/82-ss	78.42	78.42	sediment matrix		C		C	A	C	C	C	R	C		C	R	R						A	A	A	A		C					C				
344-U1381C-9H-5-A 107/107-ss	81.67	81.67	sediment matrix		R		R	A	C	R	C	R	A		R								A	A	A	A		R					C				
344-U1381C-9H-5-A 117/117-ss	81.77	81.77	sediment matrix		A		C	A	C	R	C	R	A		C								A	A	A	A		R					C				
344-U1381C-9H-5-A 124/124-ss	81.84	81.84	sediment matrix		A		C	A	A	C	C	R	A		C								A	A	A	A		R					A				
344-U1381C-9H-6-A 59/59-ss	82.69	82.69	biogenic carbonate matrix		C		C	D	A	R	C	R	C		C			R	R				D	A	A	A	C	C					A				
344-U1381C-9H-6-A 93/93-ss	83.03	83.03	sediment matrix		A		R	A	C	R	C	R	A		R	C	C	C	C				A	A	D	A		R					A				
344-U1381C-9H-7-A 10/10-ss	83.7	83.7	sediment matrix		A		C	A	C	C	A	R	A		C	C	C						A	C	A	A		C					C				
344-U1381C-9H-CC-A 39/39-ss	84.64	84.64	sediment matrix		A		C	A	C	R	C	R	A		C	R	R						A	A	A	A	R	C					C				

Sample	Top Depth [m]	Bottom Depth [m]	Description of where smear slide taken	Actinolite abundance	Tephra	Siliciclastic	Detrital carbonate	Biogenic carbonate	Clay minerals abundance	Opaques abundance	Feldspar abundance	Quartz abundance	Glass abundance	Halite abundance	Calcite, allogenic abundance	Amphibole abundance	Pyroxene abundance	Chalcedony abundance	Biotite abundance	Chlorite abundance	Other mineral	Other mineral	Microfossil abundance	Diatoms abundance	Calcareous nannofossils abundance	Foraminifera abundance	Radiolarians abundance	Sponge spicule fragments abundance	Silicoflagellate, ebridian, actiniscidian abundance	Microfossil comment	Macrofossil (fauna) abundance	Macrofossil (fauna) comment	Rock fragment - sedimentary lithic	Rock fragment - volcanic lithic	Rock fragment - plutonic lithic	Principal lithology	General smear slide comment
344-U1381C-10H-1-A 129/129-SS	85.39	85.39	biogenic carbonate matrix		C		C	D	C	R	C	R	C		C			C	C				D	A	A	A		C					C				
344-U1381C-10H-2-A 34/34-SS	85.94	85.94	biogenic carbonate matrix				R	D	C	R	C	R			R	R	R	C	C				D	A	D	A		C					R				
344-U1381C-10H-2-A 58/58-SS	86.18	86.18	sediment matrix		A		R	A	C	C	C	R	A		R	R	R						A	A	D	A		C					A				
344-U1381C-10H-2-A 96/96-SS	86.56	86.56	tuffeaceous matrix		D		R	A	R	R	C	R	D		R								A	D	A			R					R				
344-U1381C-10H-3-A 53/53-SS	87.63	87.63	tuffeaceous matrix		D		C	A	C	C	C	R	D		C								A	D	A			R					C				
344-U1381C-10H-3-A 76/76-SS	87.86	87.86	biogenic carbonate matrix		A		C	D	C	C	C	R	A	R	C								D	A	A	C	R	C					C				
344-U1381C-10H-6-A 94/94-SS	92.54	92.54	biogenic carbonate matrix		C		C	D	C	R	A	R	C		C	R	R						D	A	D	R	R	C					C				
344-U1381C-10H-7-A 26/27-SS	93.36	93.365	biogenic carbonate matrix		C		C	M	C	C	C	R	C		C	R	R	R	R				M	D	A	C		R					C				
344-U1381C-11H-4-A 84/84-SS	98.94	98.94	biogenic carbonate matrix		R		C	D	A	R	R		R	R	C	R	R						D	A	D	C	R	C					A				
344-U1381C-11H-5-A 110/110-SS	100.7	100.7	biogenic carbonate matrix		R		C	D	A	R	R	R	R	R	C			R	R				D	A	D	R		C					A				
344-U1381C-11H-5-A 50/50-ss	100.1	100.1	biogenic carbonate matrix		R		C	D	A	R	R	R	R		C	R	R						D	A	D	C	R	C					A				
344-U1381C-11H-5-A 91/91-SS	100.51	100.51	biogenic carbonate matrix		C		C	D	A	R	R	R	C	R	C	R	R						D	A	D	R		C					A				
344-U1381C-11H-6-A 133/133-SS	102.43	102.43													M																						Vein
344-U1381C-11H-6-A 32/32-SS	101.42	101.42	biogenic carbonate matrix		R		C	D	A	R	C	R	R	R	C	R	R	R	R				D	A	D	R		C					A				
344-U1381C-11H-6-A 98/98-SS	102.08	102.08	biogenic carbonate matrix		R		C	D	A	R	C	R	R	R	C	R	R	R	R				D	A	D	R		C					A				
344-U1381C-11H-CC-A 10/10-ss	103.43	103.43	biogenic carbonate matrix		R		C	D	A	R	R	R	R		C			R	R				D	A	D	R							A				
344-U1381C-12H-1-A 9/9-ss	103.19	103.19	biogenic carbonate matrix		R		C	D	A	R	R	R	R	R	C	R	R	R	R				D	A	M	R							A				
344-U1381C-12H-CC-A 5/5-ss	103.44	103.44	sediment clasts		R			R	A	R	C	R	R					C	C				R		M			R					D				
344-U1381C-12H-CC-A 9/9-ss	103.48	103.48																															M				

Sample	Top [cm]	Bottom [cm]	Top Depth [m]	Bottom Depth [m]	Tephra layer/pod shape	Tephra layer/pod color	Tephra layer/pod compaction	Cementation of tephra layer/pod	Bottom contact	Bottom contact dip [deg]	Bottom contact angle [deg]	Top contact	Top contact dip [deg]	Top contact angle [deg]	Component summary	Grain sorting	Grading comment	Grain size of normal graded layers - base	Grain size of normal graded layers - base RANK	Grain size of normal graded layers - top	Grain size of normal graded layers - top RANK	Grain size of reverse graded layers - base	Grain size of reverse graded layers - base RANK	Grain size of reverse graded layers - top	Grain size of reverse graded layers - top RANK
344-U1381C-2H-1	96	102	9.06	9.12	layered	N 2.5 (black)	moderately consolidated		discontinuous boundary			gradational boundary			mafic ash layer	very well		fine sand	4	very fine sand	3				
344-U1381C-2H-1	105.5	107	9.155	9.17	layered	N 2.5 (black)	moderately consolidated		discontinuous boundary			gradational boundary			mafic ash layer	very well		fine sand	4	very fine sand	3				
344-U1381C-2H-4	42	44	13.02	13.04	layered	10GY 4/1 (dark greenish gray)	very slightly consolidated		sharp boundary			gradational boundary			felsic ash layer	very well		very fine sand	3	fine silt	3				
344-U1381C-2H-7-A	3	6	17.13	17.16	lensoid	10Y 5/1 (greenish gray)	moderately consolidated		discontinuous boundary						very fine felsic ash pod layer	very well		very fine silt	2	clay	1				
344-U1381C-3H-7-A	14	21	26.74	26.81	layered	10R 7/1 (light gray)	slightly consolidated		sharp contact	15		gradational boundary				well		coarse sand	6	fine sand	4				
344-U1381C-3H-7-A	24.5	25	26.845	26.85	layered	10R 7/1 (light gray)	slightly consolidated		sharp boundary			sharp contact				well		fine sand	4	fine sand	4				
344-U1381C-5H-2-A	129	134	39.39	39.44	angular aggregates	10YR 3/1 (very dark gray)	very slightly consolidated		curved contact			gradational boundary				well		medium sand	5	fine silt	3				
344-U1381C-5H-2-A	148	150	39.58	39.6	layered	10Y 4/1 (dark greenish gray)	very slightly consolidated		sharp boundary			gradational boundary				well		fine sand	4	very fine sand	3				
344-U1381C-5H-5-A	92	97	43.54	43.59	layered	N 3 (very dark gray)	very slightly consolidated		discontinuous boundary							well		fine sand	4	fine sand	4				
344-U1381C-5H-6-A	72	76	44.84	44.88	layered	5YR 6/2 (pinkish gray)	very slightly consolidated		sharp boundary			gradational boundary				well		medium sand	5	fine silt	3				
344-U1381C-5H-7-A	41	43	46.03	46.05	layered	5YR 6/2 (pinkish gray)	very slightly consolidated		sharp boundary			gradational boundary				well		medium sand	5	fine sand	4				
344-U1381C-5H-7-A	59	62	46.21	46.24	lensoid	N 4 (dark gray)	very slightly consolidated		sharp inclined boundary			gradational boundary				well		medium sand	5	fine sand	4				
344-U1381C-5H-7-A	62	67	46.24	46.29	layered	5YR 7/4 (pink)	very slightly consolidated		sharp parallel boundary			gradational boundary				well		medium sand	5	fine sand	4				
344-U1381C-5H-CC-A	0	2	46.29	46.31	layered	5YR 7/2 (pinkish gray)	very slightly consolidated		uncertain boundary or contact			gradational boundary				well		medium sand	5	fine silt	3				
344-U1381C-5H-CC-A	25	28	46.54	46.57	layered	5YR 6/2 (pinkish gray)	very slightly consolidated		sharp boundary			gradational boundary				well		medium sand	5	fine sand	4				
344-U1381C-6H-2-A	89	96	48.52	48.59	layered	5YR 7/2 (pinkish gray)	very slightly consolidated		sharp boundary			gradational boundary				well		medium sand	5	fine sand	4				
344-U1381C-6H-3	62	65	49.78	49.81	lensoid	5YR 7/2 (pinkish gray)	slightly consolidated		discontinuous boundary			gradational boundary				well		medium sand	5	very fine sand	3				
344-U1381C-6H-7-A	59	62	55.75	55.78	layered	5YR 3/1 (very dark gray)	very slightly consolidated		sharp boundary							well									
344-U1381C-7H-1-A	33	34	55.93	55.94	layered	10Y 3/1 (very dark greenish gray)	moderately consolidated		discontinuous boundary			sharp parallel boundary				very well		fine sand	4	coarse silt	5				
344-U1381C-7H-1-A	45	47	56.05	56.07	layered	10Y 3/1 (very dark greenish gray)	moderately consolidated		sharp inclined boundary	5		gradational boundary				very well		medium sand	5	coarse silt	5				
344-U1381C-7H-1-A	94	98	56.54	56.58	layered	N 2.5 (black)	moderately consolidated		sharp inclined boundary	6		gradational boundary				very well		medium sand	5	fine sand	4				
344-U1381C-7H-1-A	111	114	56.71	56.74	layered	10Y 2.5/1 (greenish black)	moderately consolidated		discontinuous boundary			gradational boundary				very well		fine sand	4	fine sand	4				
344-U1381C-7H-1-A	124	138	56.84	56.98	layered	2.5Y 3/1 (very dark gray)	slightly consolidated		sharp inclined boundary	3		sharp inclined boundary	3			well						fine sand	4	medium sand	5
344-U1381C-7H-1-A	141	144	57.01	57.04	layered	10Y 2.5/1 (greenish black)	well consolidated	siliciclastic	sharp inclined boundary	15		sharp inclined boundary	15			well		fine sand	4						
344-U1381C-7H-1-A	145	150	57.05	57.1	layered	2.5Y 3/2 (very dark grayish brown)	moderately consolidated		discontinuous boundary			discontinuous boundary				well		fine sand	4	medium sand	5				
344-U1381C-7H-2-A	3	5	57.13	57.15	layered	2.5Y 3/1 (very dark gray)	indurated		bioturbated boundary or contact			sharp contact				well		fine sand	4	fine silt	3				
344-U1381C-7H-2-A	7	48	57.17	57.58	layered	2.5Y 3/1 (very dark gray)	lithified	siliciclastic	sharp inclined boundary	15		gradational boundary				well		medium sand	5	fine sand	4				
344-U1381C-7H-3-A	8	10	58.68	58.7	layered	2.5Y 3/1 (very dark gray)	moderately consolidated		sharp boundary			gradational boundary				well		fine sand	4	clay	1				
344-U1381C-7H-3-A	14.5	19	58.745	58.79	layered	2.5Y 4/1 (dark gray)	lithified	siliciclastic	sharp parallel boundary			gradational boundary				well		medium sand	5	silt	2				
344-U1381C-7H-3-A	52	65	59.12	59.25	layered	2.5Y 3/1 (very dark gray)	lithified	siliciclastic	sharp parallel boundary			gradational boundary				well		fine sand	4	silt	2				
344-U1381C-7H-3-A	67	68	59.27	59.28	layered	2.5Y 3/1 (very dark gray)	moderately consolidated		sharp parallel boundary			gradational boundary				well		silt	2						
344-U1381C-7H-3-A	91	93	59.51	59.53	layered	2.5Y 5/1 (gray)	slightly consolidated		diffuse boundary			diffuse boundary				well		medium sand	5						
344-U1381C-7H-3-A	114	116	59.74	59.76	layered	2.5Y 5/1 (gray)	slightly consolidated		diffuse boundary			diffuse boundary				well		medium sand	5						
344-U1381C-7H-5-A	78	81	62.38	62.41	layered	2.5Y 4/1 (dark gray)	slightly consolidated		sharp parallel boundary			gradational boundary				well		fine sand	4	fine silt	3				
344-U1381C-7H-6-A	9	11	63.19	63.21	layered	10YR 4/1 (dark gray)	slightly consolidated		sharp parallel boundary			gradational boundary				well		very fine sand	3	fine silt	3				
344-U1381C-7H-6-A	20	21	63.3	63.31	layered	10YR 4/1 (dark gray)	very slightly consolidated		sharp parallel boundary			gradational boundary				well		very fine sand	3	fine silt	3				
344-U1381C-7H-6-A	50	57	63.6	63.67	layered	10YR 5/1 (gray)	slightly consolidated		sharp parallel boundary			gradational boundary				well		medium sand	5	medium silt	4				
344-U1381C-7H-7-A	53	58	65.13	65.18	layered	2.5Y 4/1 (dark gray)	moderately consolidated		sharp parallel boundary			gradational boundary				well		medium sand	5	very fine silt	2				
344-U1381C-8H-2-A	47	60	67.07	67.2	angular aggregates	2.5Y 2.5/1 (black)	slightly consolidated		discontinuous boundary			discontinuous boundary				very well	Disseminated mafic tephra layer	fine sand	4	fine silt	3				
344-U1381C-8H-4-A	21	22	69.83	69.84	layered	2.5Y 5/1 (gray)	slightly consolidated		discontinuous boundary			gradational boundary				well	Disseminated felsic tephra layer	medium sand	5	medium silt	4				
344-U1381C-8H-4-A	76	79	70.38	70.41	layered	2.5Y 5/1 (gray)	very slightly consolidated		sharp inclined boundary			gradational boundary				well		medium sand	5	medium silt	4				
344-U1381C-8H-4-A	145	148	71.07	71.1	layered	10YR 6/1 (gray)			sharp parallel boundary			gradational boundary				well		very fine sand	3	very fine sand	3				
344-U1381C-8H-5-A	0	21	71.12	71.33	layered	2.5Y 4/1 (dark gray)	very slightly consolidated		sharp inclined boundary			gradational boundary				well		very fine sand	3	very fine silt	2				

Sample	Top [cm]	Bottom [cm]	Top Depth [m]	Bottom Depth [m]	Tephra layer/pod shape	Tephra layer/pod color	Tephra layer/pod compaction	Cementation of tephra layer/pod	Bottom contact	Bottom contact dip [deg]	Bottom contact angle [deg]	Top contact	Top contact dip [deg]	Top contact angle [deg]	Component summary	Grain sorting	Grading comment	Grain size of normal graded layers - base	Grain size of normal graded layers - base RANK	Grain size of normal graded layers - top	Grain size of normal graded layers - top RANK	Grain size of reverse graded layers - base	Grain size of reverse graded layers - base RANK	Grain size of reverse graded layers - top	Grain size of reverse graded layers - top RANK
344-U1381C-8H-7-A	13	14	74.27	74.28	layered	10Y 3/2 (very dark grayish green)	very slightly consolidated		gradational boundary			gradational boundary				well		coarse sand	6	fine sand	4				
344-U1381C-8H-7-A	29	32	74.43	74.46	layered	N 3 (very dark gray)	very slightly consolidated		sharp boundary			gradational boundary				well		coarse sand	6	fine silt	3				
344-U1381C-9H-1-A	20	21	74.8	74.81	layered	N 7 (light gray)	slightly consolidated		sharp boundary			gradational boundary				well		fine sand	4	medium silt	4				
344-U1381C-9H-1-A	121	122	75.81	75.82	layered	N 6 (gray)	slightly consolidated		diffuse boundary			gradational boundary				well		fine sand	4	fine silt	3				
344-U1381C-9H-2-A	0	12	76.1	76.22	layered	2.5Y 5/2 (grayish brown)	moderately consolidated		diffuse boundary							well		very fine sand	3	very coarse sand	7				
344-U1381C-9H-2-A	22	23	76.32	76.33	layered	2.5Y 5/2 (grayish brown)	slightly consolidated		sharp parallel boundary			gradational boundary				well		medium sand	5	fine sand	4				
344-U1381C-9H-2-A	40	45	76.5	76.55	angular aggregates	N 3 (very dark gray)	slightly consolidated		diffuse boundary			diffuse boundary				well		medium sand	5	medium sand	5				
344-U1381C-9H-2-A	149	150	77.59	77.6	spotty	2.5Y 4/1 (dark gray)	moderately consolidated		diffuse boundary							well		fine sand	4	fine sand	4				
344-U1381C-9H-3-A	0	3	77.6	77.63	layered	2.5Y 4/2 (dark grayish brown)	slightly consolidated		diffuse boundary							well		fine sand	4	fine silt	3				
344-U1381C-9H-3-A	81	83	78.41	78.43	lensoid	N 3 (very dark gray)	slightly consolidated		curved contact			curved contact				well		sand	3	sand	3				
344-U1381C-9H-5-A	95	97	81.55	81.57	layered	N 6 (gray)	slightly consolidated		discontinuous boundary			gradational boundary				well		medium sand	5	medium silt	4				
344-U1381C-9H-5-A	95	98	81.55	81.58	layered	10YR 5/1 (gray)	slightly consolidated		sharp boundary			gradational boundary				well		medium sand	5	fine sand	4				
344-U1381C-9H-5-A	104	116	81.64	81.76	layered	N 4 (dark gray)	slightly consolidated		sharp boundary			gradational boundary				well		medium sand	5	fine silt	3				
344-U1381C-9H-5-A	120	125	81.8	81.85	layered	2.5Y 2.5/1 (black)	slightly consolidated		sharp inclined boundary			gradational boundary				well		fine sand	4	very fine sand	3				
344-U1381C-9H-6-A	89	95	82.99	83.05	layered	N 4 (dark gray)	slightly consolidated		sharp boundary			gradational boundary				well		medium sand	5	fine silt	3				
344-U1381C-9H-7-A	11	11	83.71	83.71	spotty	N 3 (very dark gray)	slightly consolidated		sharp contact			gradational boundary				well		fine sand	4	fine silt	3				
344-U1381C-9H-7-A	55	56	84.15	84.16	layered	N 6 (gray)	slightly consolidated		diffuse boundary			gradational boundary				well		fine sand	4	very fine sand	3				
344-U1381C-9H-CC-A	3	4	84.28	84.29	layered	N 6 (gray)	slightly consolidated		diffuse boundary			gradational boundary				well		fine sand	4	very fine sand	3				
344-U1381C-9H-CC-A	17	20	84.42	84.45	layered	N 3 (very dark gray)	slightly consolidated					diffuse boundary				well	Bottom of tephra layer was cut off by the PAL sample	fine sand	4	fine sand	4				
344-U1381C-10H-1-A	62	63	84.72	84.73	spotty	N 4 (dark gray)	slightly consolidated		diffuse boundary			diffuse boundary				well	more thin lenses than continuous layers	fine sand	4	fine sand	4				
344-U1381C-10H-1-A	128	130	85.38	85.4	layered	N 3 (very dark gray)	slightly consolidated		sharp boundary			gradational boundary				well	disrupted by bioturbation	medium sand	5	fine silt	3				
344-U1381C-10H-2-A	0	2	85.6	85.62	layered	N 6 (gray)	slightly consolidated		curved boundary			uncertain boundary or contact				well		fine sand	4	very coarse sand	7				
344-U1381C-10H-2-A	57	60	86.17	86.2	layered	N 3 (very dark gray)	slightly consolidated		sharp boundary			gradational boundary				well		fine sand	4	fine silt	3				
344-U1381C-10H-2-A	95	99	86.55	86.59	layered	N 3 (very dark gray)	slightly consolidated		sharp boundary			gradational boundary				well	bottom boundary disturbed bu bioturbation	fine sand	4	fine silt	3				
344-U1381C-10H-2-A	109	112	86.69	86.72	lensoid	N 3 (very dark gray)	slightly consolidated		discontinuous boundary			diffuse boundary				well		medium sand	5	medium sand	5				
344-U1381C-10H-2-A	128	130	86.88	86.9	lensoid	N 3 (very dark gray)	slightly consolidated		discontinuous boundary			diffuse boundary				well		medium sand	5	medium sand	5				
344-U1381C-10H-3-A	52	53	87.62	87.63	layered	N 3 (very dark gray)	slightly consolidated		discontinuous boundary			gradational boundary				well		fine sand	4	fine silt	3				
344-U1381C-10H-3-A	74	78	87.84	87.88	layered	N 3 (very dark gray)	slightly consolidated		sharp boundary			gradational boundary				well	graded	medium sand	5	fine sand	4				
344-U1381C-10H-4-A	102	104	89.62	89.64	layered	2.5Y 3/1 (very dark gray)	slightly consolidated		discontinuous boundary			gradational boundary				well	ash is grading into sediment on top	fine sand	4	fine silt	3				
344-U1381C-10H-5-A	71	74	90.81	90.84	layered	2.5Y 5/2 (grayish brown)	slightly consolidated		sharp boundary			gradational boundary						very fine sand	3	very fine silt	2				
344-U1381C-10H-5-A	71	74	90.81	90.84	spotty	N 3 (very dark gray)	slightly consolidated		diffuse boundary			gradational boundary				well	pods layer	fine sand	4	very fine silt	2				
344-U1381C-10H-5-A	134	135	91.44	91.45	layered	10YR 5/2 (grayish brown)	slightly consolidated		diffuse boundary			gradational boundary				well		fine sand	4	very fine sand	3				
344-U1381C-10H-6-A	62	67	92.22	92.27	spotty	N 2.5 (black)	slightly consolidated		diffuse boundary			gradational boundary				well	not coherent layer, but several mm-sized to cm-sized spots distributed within the interval	medium sand	5	very fine sand	3				
344-U1381C-10H-6-A	118	121	92.78	92.81	layered	10YR 5/1 (gray)	slightly consolidated		sharp boundary			gradational boundary				well		fine sand	4	very fine silt	2				
344-U1381C-11H-2-A	128	130	96.38	96.4	layered	2.5Y 3/1 (very dark gray)	slightly consolidated		sharp boundary			gradational boundary				well	normal grading of ash towards sediment matrix	fine sand	4	very fine silt	2				
344-U1381C-11H-3-A	99	102	97.59	97.62	spotty	2.5Y 5/1 (gray)	slightly consolidated		diffuse boundary			dike contact				well	very diffuse "ghost" of ash layer, more recognizable through color change in sediment than through grain size	very fine sand	3	very fine sand	3				
344-U1381C-11H-5-A	0	4	99.6	99.64	layered	10YR 5/1 (gray)	slightly consolidated		sharp boundary			gradational boundary				well		medium sand	5	fine sand	4				
344-U1381C-11H-5-A	79	82	100.39	100.42	layered	10YR 4/2 (dark grayish brown)	slightly consolidated		sharp boundary			gradational boundary				well		fine sand	4	very fine sand	3				
344-U1381C-11H-5-A	121	131	100.81	100.91	layered	10YR 4/1 (dark gray)	slightly consolidated		sharp boundary			gradational boundary				well		very fine sand	3	very fine silt	2				
344-U1381C-11H-6-A	125	126	102.35	102.36	layered	10YR 4/1 (dark gray)	slightly consolidated		bioturbated boundary or contact			gradational boundary				well		fine sand	4	very fine silt	2				

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344-U1381C-11H-7-A	0	2	102.6	102.62	layered	10YR 5/1 (gray)	slightly consolidated		sharp boundary			gradational boundary				well		medium sand	5	very fine sand	3				

THIN SECTION ID: **344-U1381C-13X-1-W 7/11-TSB-TS#2** Thin section no.: 344-02

PRIMARY MINERALOGY Observer: CSD, KH

Lithology: **clinopyroxene plagioclase phyric basalt**

Grain size: Texture: Intersertal

Sample domain comment: moderate groundmass alteration

Phenocrysts:

	Present (%)	Original (%)	Vol. repl. (%)	Size min. (mm)	Size max. (mm)	Size mode (mm)	Shape	Habit	Special features	Comment
Plagioclase	8					0.4	subhedral			
Clinopyroxene	5					0.2	subhedral			interstitial, partially altered

Groundmass:

Groundmass (%): 80 Groundmass modal grain size (mm): 15