

Chapter 3, Table T7. Summary of paleontological observations for various lithologies, Hole 1276A.

Notes: * = igneous core catchers. Y = yes, N = no. N = calcareous nannofossils, D = dinoflagellates, F = foraminifers. Abundance: A = abundant, C = common, F = few, R = rare, B = barren. Rw = reworked.

Table T7. Summary of paleontological observations for various lithologies, Hole 1276A. ([See table notes](#). Continued on next 19 pages.)

Core, section, interval (cm)	Thin section	Calcareous	Depth (mbsf)	Lithology
210-1276A-1W-1, 47-49	X	Y	753.47	Grainstone, laminated
1W-CC		Y	759.19	Sandstone, pinkish, brownish gray, laminated, hard
2R-1, 73-75	X	Y	800.73	Mudstone, bioturbated
2R-CC		Y	803.51	Mudstone, pinkish yellow with lenses of dark red mudstone and greenish silty mudstone
3R-4, 47-49	X		813.15	Grainstone, partly silicified spicule-foraminifer
3R-CC		Y	819.26	Mudstone, brownish gray, moderately soft, blocky
4R-CC		N	825.90	Mudstone, brownish gray, moderately hard, moderately fissile with paler fine laminae
5R-CC		N	838.15	Mudstone, brownish gray, moderately soft, moderately fissile
6R-4, 60-62	X		843.50	Grainstone
6R-CC		N	847.40	Mudstone, brownish gray, moderately hard, subfissile
7R-2, 35-39	X		849.85	Marlstone, bioturbated
7R-3, 69-73	X		851.69	Marlstone, bioturbated
7R-4, 94-98			853.44	Claystone, bioturbated
7R-CC		N	857.68	Mudstone, brownish gray, moderately hard
8R-5, 110-112	X		864.70	Marlstone
8R-6, 69-71	X		865.79	Grainstone
8R-CC		Y	866.13	Sandstone, yellowish gray, moderately hard, darker gray fine laminae
9R-CC		Y	876.92	Siltstone, light gray, moderately hard with softer bands, finely laminated
10R-CC		Y	885.37	Sandstone, greenish, yellowish gray, moderately hard mudstone, pale pinkish brown, moderately soft, silty
11R-2, 29-32	X		888.19	Grainstone, laminated to graded
11R-CC, 14-17	X		894.72	Grainstone, laminated; mudstone, calcareous
11R-CC		Y	894.58	Mudstone, yellowish gray, silty, moderately hard
12R-3, 93-97	X		899.93	Grainstone, laminated to sandstone, glauconitic
12R-3, 120-124	X		900.20	Marlstone, laminated to grainstone
12R-CC		N	902.69	Sandstone, whitish yellow with greenish laminae, hard
13R-2, 60-63	X		907.80	Grainstone, graded to laminated
13R-CC		Y	910.39	Sandstone, light and darker gray fine grained
14R-CC		Y	920.64	Sandstone, pinkish gray laminated fine grained, moderately hard
15R-1, 124-126	X		926.24	Grainstone to marlstone, laminated and bioturbated
15R-2, 25-27	X		926.75	Grainstone to marlstone, bioturbated
15R-3, 122-124	X		929.22	Muddy sandstone
15R-CC		N	933.33	Mudstone, dark red, moderately soft, waxy, burrowed
16R-CC		Y	942.23	Mudstone, dark gray and lighter gray bands, finely laminated, moderately hard
17R-4, 98-99	X		948.89	Grainstone, laminated
17R-7, bottom		Y	953.66	Mudstone, dark gray, moderately hard, moderately fissile
18R-1, 134-138	X		955.14	Radiolarian claystone, laminated and bioturbated
18R-6, 52-55	X		960.95	Chalk, nannofossil-foraminifer
18R-6, 88-90	X		961.31	Foraminifer grainstone, bioturbated
18R-CC		Y	963.40	Mudstone, medium dark gray, blocky, minor laminae
19R-CC		N	970.55	Mudstone, dark red, burrowed, moderately soft

Table T7 (continued).

Core, section, interval (cm)	Thin section	Calcareous	Depth (mbsf)	>63-µm sieve residue	Planktonic foraminifers Calcareous benthic foraminifers Agglutinated foraminifers Larger benthic foraminifers Radiolarians	Diatoms Sponge spicules Calcareous nannofossils Palynomorphs Ostracodes	Fish teeth/bone Echinoderm spines Inoceramus Megasporites Wood/plant debris	
210-1276A-1W-1, 47–49 1W-CC 2R-1, 73–75 2R-CC 3R-4, 47–49	X X X X	Y Y Y X	753.47 759.19 800.73 803.51 813.15		C C R R A	F C R R R	C F R C F A	
3R-CC 4R-CC 5R-CC 6R-4, 60–62 6R-CC		Y N N X N	819.26 825.90 838.15 843.50 847.40	Quartz Glauconite	A C C	R R C	F F B F B F B F	R
7R-2, 35–39 7R-3, 69–73 7R-4, 94–98 7R-CC 8R-5, 110–112	X X X X	N N N N	849.85 851.69 853.44 857.68 864.70	Glauconite, pyrite, phosphate pellets	F F F F F	F F F C F		
8R-6, 69–71 8R-CC 9R-CC 10R-CC 11R-2, 29–32	X X X X	Y Y Y X	865.79 866.13 876.92 885.37 888.19	Glauconite Glauconite	C R V + Rw C R	F C F A F R	C F? R R R? C	R
11R-CC, 14–17 11R-CC 12R-3, 93–97 12R-3, 120–124 12R-CC	X X X X	Y Y N	894.72 894.58 899.93 900.20 902.69	Quartz, glauconite	F R R F F	F R F C B	C F R R C R	R C R C R
13R-2, 60–63 13R-CC 14R-CC 15R-1, 124–126 15R-2, 25–27	X X X X	Y Y X X	907.80 910.39 920.64 926.24 926.75		C R C + Rw F C	F C C F R F	R F C	C
15R-3, 122–124 15R-CC 16R-CC 17R-4, 98–99 17R-7, bottom	X X X X	N Y Y	929.22 933.33 942.23 948.89 953.66	Rare pyrite	R C A R	R R R C R A R	B C F R F	F F
18R-1, 134–138 18R-6, 52–55 18R-6, 88–90 18R-CC 19R-CC	X X X X X		955.14 960.95 961.31 963.40 970.55		C F A C C	C		R

Table T7 (continued).

Core, section, interval (cm)	Thin section	Calcareous	Depth (mbsf)	Epoch	Foraminifers age (Ma)		Planktonic foraminifer zone	Nannofossils age (Ma)		Calcareous nannofossil zone	Dinoflagellate cysts age (Ma)	
					Youngest	Oldest		Youngest	Oldest		Youngest	Oldest
210-1276A-1W-1, 47–49	X	Y	753.47				Upper P12–P15?					
1W-CC		Y	759.19	latest Eocene–early Oligocene (N, D)			Unzoned	32.3	34.2	CP16	32.00	33.70
2R-1, 73–75	X	Y	800.73				Unzoned	34.2	40.4	CP14b/CP15	33.50	36.50
2R-CC			803.51	late middle–late Eocene (N, D)			Unzoned					
3R-4, 47–49	X		813.15				Barren	40.4	43.7	CP14a	33.60	36.40
3R-CC		Y	819.26	middle Eocene (N)			Barren					
4R-CC		N	825.90	late middle–early late Eocene (D)			Barren					
5R-CC		N	838.15				Barren					
6R-4, 60–62	X	Y	843.50				Unzoned					
6R-CC		N	847.40	middle Eocene (D)			Barren					
7R-2, 35–39	X		849.85	late early–middle Eocene? (F)	40.5	50.4	P9–P12?					
7R-3, 69–73	X		851.69				Unzoned					
7R-4, 94–98			853.44	late early–middle Eocene? (F)	40.5	50.4	P9–P12?					
7R-CC		N	857.68	middle Eocene (D)			Barren					
8R-5, 110–112	X		864.70				Unzoned					
8R-6, 69–71	X		865.79	middle Eocene			Barren					
8R-CC		Y	866.13	late early–middle Eocene			Barren					
9R-CC		Y	876.92	early Eocene			Barren					
10R-CC		Y	885.37				Barren					
11R-2, 29–32	X		888.19	early Eocene			Unzoned					
11R-CC, 14–17	X		894.72				Unzoned					
11R-CC		Y	894.58	early Eocene			Unzoned					
12R-3, 93–97	X		899.93				Unzoned					
12R-3, 120–124	X		900.20				Unzoned					
12R-CC		N	902.69				Barren					
13R-2, 60–63	X		907.80				Unzoned					
13R-CC		Y	910.39	early Eocene			Unzoned					
14R-CC		Y	920.64	late Paleocene	55.9	56.5	P4c					
15R-1, 124–126	X		926.24		55.9	59.2	P4					
15R-2, 25–27	X		926.75	late Paleocene			Unzoned					
15R-3, 122–124	X		929.22				Unzoned					
15R-CC		N	933.33				Barren					
16R-CC		Y	942.23				Barren					
17R-4, 98–99	X		948.89	early Paleocene	59.2	60.9	P3					
17R-7, bottom	X		953.66	early Paleocene			Barren	59.7	62.2	CP3	61.37	62.50
18R-1, 134–138	X		955.14				Barren					
18R-6, 52–55	X		960.95	early Paleocene	60.9	64.5	P1–P2					
18R-6, 88–90	X		961.31	early Paleocene	60.9	64.5	P1–P2					
18R-CC		Y	963.40	early Paleocene			Unzoned	59.7	63.8	CP2/CP3	63.00	64.75
19R-CC		N	970.55				Barren				Not sampled	

Table T7 (continued).

Core, section, interval (cm)	Thin section	Calcareous	Depth (mbsf)	Comments
210-1276A-1W-1, 47–49	X	Y	753.47	Reworked foraminifer assemblage?
1W-CC		Y	759.19	Redeposited neritic and bathyal calcareous benthics
2R-1, 73–75	X	Y	800.73	
2R-CC		Y	803.51	Rare pyritized diatoms and rare radiolarian fragments; reworked early Paleogene calcareous nannofossils
3R-4, 47–49	X		813.15	Reworked Cretaceous (and Paleocene?) planktonic foraminifers
3R-CC		Y	819.26	Reworked Ypresian/Lutetian dinocysts; common pyritized radiolarian fragments, some identifiable
4R-CC		N	825.90	Abundant pyritized radiolarian and diatom fragments in palynological preparations
5R-CC		N	838.15	Rare internal moulds of planktonic foraminifers; abundant pyritized radiolarian and diatom fragments in palynological preparations
6R-4, 60–62	X		843.50	
6R-CC		N	847.40	Abundant frambooidal pyrite; rare pyritized radiolarian fragments
7R-2, 35–39	X		849.85	
7R-3, 69–73	X		851.69	
7R-4, 94–98			853.44	
7R-CC		N	857.68	
8R-5, 110–112	X		864.70	Lag at base of lithologic Unit 1
8R-6, 69–71	X		865.79	
8R-CC		Y	866.13	Redeposited neritic calcareous benthics; reworked Cretaceous calcareous nannofossils
9R-CC		Y	876.92	Redeposited neritic calcareous benthics; reworked Late Cretaceous planktonics; reworked Cretaceous calcareous nannofossils
10R-CC		Y	885.37	
11R-2, 29–32	X		888.19	Reworked Cretaceous nannofossils
11R-CC, 14–17	X		894.72	
11R-CC		Y	894.58	Reworked early Paleogene calcareous nannofossils
12R-3, 93–97	X		899.93	
12R-3, 120–124	X		900.20	
12R-CC		N	902.69	Redeposited neritic calcareous benthics
13R-2, 60–63	X		907.80	
13R-CC		Y	910.39	Redeposited neritic or upper bathyal calcareous benthic species; reworked Cretaceous calcareous nannofossils
14R-CC		Y	920.64	Reworked Late Cretaceous planktonics; redeposited neritic calcareous benthics; reworked Cretaceous calcareous nannofossils
15R-1, 124–126	X		926.24	
15R-2, 25–27	X		926.75	Reworked Late Cretaceous planktonic foraminifers
15R-3, 122–124	X		929.22	
15R-CC		N	933.33	
16R-CC		Y	942.23	Rare frambooidal pyrite in palynological preparations; reworked Cretaceous calcareous nannofossils
17R-4, 98–99	X		948.89	Abundant reworked Maastrichtian planktonic foraminifers
17R-7, bottom		Y	953.66	Rare to common pyritized radiolarian and diatom fragments
18R-1, 134–138	X		955.14	
18R-6, 52–55	X		960.95	
18R-6, 88–90	X		961.31	Reworked late Maastrichtian planktonic foraminifers
18R-CC		Y	963.40	Size-sorted planktonic and calcareous benthic foraminifers; common pyritized radiolarian fragments and rare pyritized ?diatom fragments; Cretaceous calcareous nannofossils
19R-CC		N	970.55	

Table T7 (continued).

Core, section, interval (cm)	Thin section	Calcareous	Depth (mbsf)	Lithology
20R-5, 69	X	N	979.40	Grainstone, spicule-foraminifer
20R-CC			982.82	Mudstone, very dark gray, moderately soft, blocky
21R-3, 4–6	X		985.50	Foraminifer grainstone, laminated
21R-4, 19–21	X		987.15	Foraminifer grainstone
21R-4, 127–129	X		988.23	Foraminifer grainstone
21R-CC	Y		988.32	Sandstone, light gray with green and darker gray very thin mudstone beds
22R-CC	Y		997.41	Mudstone, pinkish red, moderately hard, burrowed; white very fine-fine sandstone with clay seams
23R-CC	Y		1006.86	Mudstone, pinkish red, dark red lenses, moderately hard, blocky, burrowed
24R-5, 82–84	X		1018.42	Tuffaceous siltstone, altered, laminated
24R-CC	Y		1019.07	Mudstone, light pinkish gray, soft, blocky, burrowed
25R-CC	N		1030.41	Mudstone, medium dark red, moderately hard, blocky, burrowed
26R-CC	N		1034.04	Mudstone, medium dark red, moderately hard, blocky, burrowed
27R-CC	N		1050.18	Mudstone, dark red and greenish gray banded with fine laminae, moderately hard, red mudstone burrowed, some diagenetic carbonate alteration
28R-CC	N		1057.36	Mudstone, dark red with gray silty lenses, moderately hard, blocky, burrowed
29R-1, 35–39	X		1060.05	Quartz sandstone, bioturbated
29R-5, 104–109	X		1066.57	Sandstone, calcareous
29R-CC	Y		1067.61	Mudstone, medium dark brownish gray, soft, blocky
30R-5, 92–96	X		1076.05	Siltstone, laminated, micaceous
30R-CC	Y		1076.64	Mudstone, dark gray and greenish dark gray, silty, finely laminated, moderately hard, moderately fissile
31R-1, 81–84	X		1079.81	Siltstone, calcareous, micaceous
31R-5, 18–20	X		1085.07	Siltstone, calcareous, laminated
31R-CC	N		1086.88	Mudstone, dark brownish gray, blocky, moderately hard
32R-CC	N		1098.33	Mudstone, dark gray, moderately soft, slightly fissile
33R-CC	Y		1107.76	Mudstone, medium gray, very finely laminated, moderately hard
34R-CC	Y		1113.78	Mudstone, dark red and greenish gray banded with fine laminae, moderately hard, red mudstone burrowed
35R-3, 55–58	X		1120.95	Sandy siltstone, calcareous
35R-CC	Y		1126.87	Mudstone, dark red and greenish gray banded with fine laminae, moderately hard, red mudstone burrowed
36R-2, 123–127	X		1129.74	Silty sandstone, calcareous, laminated
36R-CC	Y		1135.63	Mudstone, medium gray moderately hard, blocky, burrowed
37R-3, 89–93	X		1140.05	Siltstone, calcareous
37R-CC	Y		1145.55	Mudstone, pinkish green, moderately hard
38R-6, 92–95	X		1153.74	Siltstone, calcareous, laminated
38R-CC	Y		1155.60	Mudstone, medium dark gray, subfissile, moderately soft
39R-CC	N		1164.26	Mudstone, medium dark gray, moderately soft, moderately fissile, burrowed
40R-3, 144–146	X		1169.31	Micritic limestone, bioturbated
40R-CC	Y		1174.29	Siltstone, light gray, moderately hard with softer bands, finely laminated, subfissile
41R-2, 88–91	X		1176.78	Silty grainstone, radiolarian-pelletal, graded
41R-3, 52–55	X		1177.96	Siltstone, calcareous, micaceous with plant debris
41R-CC	N		1183.96	Mudstone, dark gray, moderately soft, fissile
42R-CC	N		1194.25	Mudstone, dark gray, soft

Table T7 (continued).

Core, section, interval (cm)	Thin section	Calcareous	Depth (mbsf)	>63-µm sieve residue	Planktonic foraminifers Calcareous benthic foraminifers Agglutinated foraminifers Larger benthic foraminifers Radiolarians	Diatoms Sponge spicules Calcareous nannofossils Palynomorphs Ostracodes	Fish teeth/bone Echinoderm spines Inoceramus Megasporites Wood/plant debris
20R-5, 69 20R-CC 21R-3, 4–6 21R-4, 19–21 21R-4, 127–129	X X X X	Z	979.40 982.82 985.50 987.15 988.23		A A A A	C B F	
21R-CC 22R-CC 23R-CC 24R-5, 82–84 24R-CC		Y	988.32 997.41 1006.86 1018.42 1019.07	Micaceous Rare glauconite, rare mica	A A R R A	A F R R R	R F A
25R-CC 26R-CC 27R-CC 28R-CC 29R-1, 35–39		N	1030.41 1034.04 1050.18 1057.36 1060.05	Very fine sand; rare glauconite, phosphate pellets; common mica Rare glauconite, phosphate pellets; common mica Mica, glauconite, angular quartz Mica, glauconite		R R C R R	B B R B R C
29R-5, 104–109 29R-CC 30R-5, 92–96 30R-CC 31R-1, 81–84	X X X	Y Y Y	1066.57 1067.61 1076.05 1076.64 1079.81	Very fine-fine sand; mica, glauconite Very fine sand	R R F R F	R F F C F	R R R
31R-5, 18–20 31R-CC 32R-CC 33R-CC 34R-CC		N	1085.07 1086.88 1098.33 1107.76 1113.78	Very fine-fine quartz sand; common mica and glauconite Common mica	F R F C	B B C F	R R C
35R-3, 55–58 35R-CC 36R-2, 123–127 36R-CC 37R-3, 89–93	X X X	Y Y Y	1120.95 1126.87 1129.74 1135.63 1140.05	Mica	R C A R	R C F	R
37R-CC 38R-6, 92–95 38R-CC 39R-CC 40R-3, 144–146	X X	Y Y N X	1145.55 1153.74 1155.60 1164.26 1169.31	Rare quartz and pyrite	C R R F	C C B F	
40R-CC 41R-2, 88–91 41R-3, 52–55 41R-CC 42R-CC		Y X X N N	1174.29 1176.78 1177.96 1183.96 1194.25	Coarse silt/very fine sand, mica Rare wood	R C R A A C C	F F B F R R	F R R R R

Table T7 (continued).

Core, section, interval (cm)	Thin section	Calcareous	Depth (mbsf)	Epoch	Foraminifers age (Ma)		Planktonic foraminifer zone	Nannofossils age (Ma)		Calcareous nannofossil zone	Dinoflagellate cysts age (Ma)	
					Youngest	Oldest		Youngest	Oldest		Youngest	Oldest
20R-5, 69	X	N	979.40	early Paleocene	61.2	64.5	P1?			Barren	63.72	64.75
20R-CC			982.82				Barren					
21R-3, 4–6	X		985.50				Unzoned					
21R-4, 19–21	X		987.15	earliest Paleocene	64.7	64.9	P α					
21R-4, 127–129	X		988.23	latest Mastrichtian	65.0	68.6	KS31					
21R-CC			988.32									
22R-CC			997.41									
23R-CC			1006.86									
24R-5, 82–84	X		1018.42									
24R-CC			1019.07	late Campanian	72.8	75.2						
25R-CC			1030.41									
26R-CC			1034.04									
27R-CC			1050.18									
28R-CC			1057.36									
29R-1, 35–39	X		1060.05	latest Turonian–early Coniacian								
29R-5, 104–109	X		1066.57									
29R-CC			1067.61	late early–early late Turonian	90.7	93.0	Unzoned					
30R-5, 92–96	X		1076.05	earliest Turonian	93.0	94.0	KS21					
30R-CC			1076.64	earliest Turonian			KS20					
31R-1, 81–84	X		1079.81	late Cenomanian–early Turonian	93.0	94.0	Unzoned					
31R-5, 18–20	X		1085.07	latest Cenomanian	94.0	96.6	KS20					
31R-CC			1086.88	latest Cenomanian			Barren					
32R-CC			1098.33	Cenomanian			Barren					
33R-CC			1107.76	late Cenomanian			Barren					
34R-CC			1113.78	late Cenomanian			Unzoned					
35R-3, 55–58	X		1120.95									
35R-CC			1126.87	late Cenomanian								
36R-2, 123–127	X		1129.74	early Cenomanian	96.8	99.1	Unzoned					
36R-CC			1135.63	early Cenomanian			KS17					
37R-3, 89–93	X		1140.05									
37R-CC			1145.55	late Albian/early Cenomanian			Barren					
38R-6, 92–95	X		1153.74									
38R-CC			1155.60	late Albian/early Cenomanian			Unzoned					
39R-CC			1164.26	early Cenomanian			Barren					
40R-3, 144–146	X		1169.31									
40R-CC			1174.29	late Albian/early Cenomanian								
41R-2, 88–91	X		1176.78	latest Albian	99.1	100.4	Unzoned					
41R-3, 52–55	X		1177.96									
41R-CC			1183.96	latest Albian			KS16					
42R-CC			1194.25									

Table T7 (continued).

Core, section, interval (cm)	Thin section	Calcareous	Depth (mbsf)	Comments
20R-5, 69	X	N	979.40	Abundant reworked late Maastrichtian planktonic foraminifers
20R-CC			982.82	Rare pyritized radiolarian fragments and rare pyritized ?diatom fragments
21R-3, 4–6	X		985.50	Abundant reworked late Maastrichtian planktonic foraminifers
21R-4, 19–21	X		987.15	Abundant reworked late Maastrichtian planktonic foraminifers
21R-4, 127–129	X		988.23	
21R-CC		Y	988.32	Redeposited bathyal calcareous benthics; Tethyan biserial and multiserial taxa missing
22R-CC		Y	997.41	Size-sorted planktonic and calcareous benthic foraminifers; Tethyan biserial and multiserial taxa missing
23R-CC		Y	1006.86	
24R-5, 82–84	X		1018.42	
24R-CC		Y	1019.07	
25R-CC		N	1030.41	
26R-CC		N	1034.04	
27R-CC		N	1050.18	
28R-CC		N	1057.36	
29R-1, 35–39	X		1060.05	
29R-5, 104–109	X		1066.57	
29R-CC		Y	1067.61	
30R-5, 92–96	X		1076.05	
30R-CC		Y	1076.64	Size-sorted planktonic foraminifers in sandy lithology only
31R-1, 81–84	X		1079.81	
31R-5, 18–20	X	N	1085.07	
31R-CC		N	1086.88	
32R-CC		N	1098.33	Rare pyritized radiolarian fragments in palynological preparations
33R-CC		Y	1107.76	Rare pyritized radiolarian fragments in palynological preparations
34R-CC		Y	1113.78	Size-sorted planktonic foraminifers
35R-3, 55–58	X		1120.95	
35R-CC		Y	1126.87	Redeposited bathyal calcareous benthics; Tethyan taxa missing?
36R-2, 123–127	X		1129.74	
36R-CC		Y	1135.63	
37R-3, 89–93	X		1140.05	
37R-CC		Y	1145.55	
38R-6, 92–95	X		1153.74	Size-sorted planktonic foraminifers
38R-CC		Y	1155.60	Rare pyritized radiolarian fragments in palynological preparations
39R-CC		N	1164.26	
40R-3, 144–146	X		1169.31	
40R-CC		Y	1174.29	Size-sorted planktonic and calcareous benthic foraminifers
41R-2, 88–91	X		1176.78	
41R-3, 52–55	X		1177.96	Size-sorted planktonic foraminifers
41R-CC		N	1183.96	
42R-CC		N	1194.25	Common small pyritized radiolarians in palynological preparations

Table T7 (continued).

Core, section, interval (cm)	Thin section	Calcareous	Depth (mbsf)	Lithology
43R-3, 63–65	X	Y	1197.18	Siltstone, calcareous, laminated
43R-CC		Y	1202.30	Mudstone, very dark gray, moderately soft and fissile with pinkish light gray beds, hard, blocky
44R-5, 51–53	X	Y	1209.79	Radiolarian marlstone and siltstone, laminated
44R-CC		Y	1213.23	Mudstone, dark brownish gray to black, finely laminated, fissile, moderately soft
45R-2, 112–114	X		1215.45	Silty grainstone, laminated, intraclastic
45R-CC	X	Y	1221.73	Mudstone, dark gray, moderately hard, light pinkish gray silty mudstone, burrowed, moderately hard
46R-4, 85–87		Y	1227.84	Siltstone, calcareous, laminated
46R-CC		Y	1231.74	Siltstone, dark gray and light gray laminated, moderately hard
47R-CC		Y	1241.61	Siltstone, light gray, hard and mudstone, very dark gray, silty, hard, fissile
48R-3, 69–71	X		1245.47	Grainstone, laminated, intraclastic
48R-CC		Y	1249.14	Mudstone, medium dark gray, moderately hard, blocky, disturbed, some diagenetic carbonate lenses
49R-CC		Y	1259.87	Sandstone, medium gray, hard, fine grained, some cross-bedding
50R-4, 56–58	X		1266.06	Sandy siltstone, laminated
50R-4, 105–107	X		1266.55	Shale to marlstone, laminated
50R-CC		N	1268.98	Mudstone, dark gray black, moderately hard, moderately fissile, burrowed
51R-1, 142–146	X		1272.12	Grainstone
51R-CC		Y	1279.06	Mudstone, dark gray, finely laminated, moderately hard, silty
52R-3, 90–91	X		1284.30	Siltstone, carbonate cemented, laminated
52R-4, 91–93	X		1285.81	Siltstone, carbonate cemented, micaceous, laminated
52R-CC		Y	1290.00	Shale, black
53R-4, 24–26	X		1294.68	Grainstone, intraclastic, micritic
53R-CC		Y	1298.19	Sandy mudstone, very dark gray, soft, blocky
54R-1, 63–66	X		1300.23	Silty sandstone, carbonate cemented
54R-CC		Y	1307.67	Mudstone, very dark gray, possibly drilling paste, lighter gray blocky interior processed
55R-1, 90–93	X		1310.10	Sandy siltstone, carbonate cemented, laminated
55R-CC		Y	1314.90	Sandstone, light gray with darker gray laminae and bands, hard
56R-CC		Y	1324.48	Mudstone, very dark gray, soft, blocky
57R-CC		Y	1331.42	Mudstone, very dark gray, moderately soft, fissile, with thin band of light pinkish brown silty mudstone
58R-CC		Y	1343.02	Shale, black
59R-CC		Y	1353.20	Shale, black; siltstone, white; claystone, dark gray
60R-2, 25–27	X		1355.45	Limestone, micritic, pelleted
60R-CC		Y	1362.02	Sandstone and muddy siltstone, light gray very fine; mudstone, dark olive gray, bioturbated
61RCC		N	1372.63	Mudstone, dark gray, moderately hard plus siltstone, medium dark gray, finely laminated, hard
62R-2, 110–112	X		1375.50	Siltstone and marlstone with radiolarians, laminated
62R-6, 36–38	X		1380.76	Limestone, micritic, pelleted
62R-CC		Y	1382.44	Mudstone, dark gray, soft, subfissile and siltstone, light gray, moderately hard, calcareous
63R-CC		Y	1392.07	Mudstone
64R-CC		Y	1401.74	Mudstone, dark gray to black, soft, subfissile
65R-CC		Y	1410.72	
66R-CC		N	1418.55	Mudstone, black

Table T7 (continued).

Core, section, interval (cm)	Thin section	Calcareous	Depth (mbsf)	>63-µm sieve residue	Planktonic foraminifers	Calcareous benthic foraminifers	Agglutinated foraminifers	Larger benthic foraminifers	Radiolarians	Diatoms	Sponge spicules	Calcareous nanofossils	Palynomorphs	Ostracodes	Fish teeth/bone	Echinoderm spines	Inoceramus	Megaspores	Wood/plant debris
43R-3, 63–65	X	Y	1197.18		R					R									
43R-CC	X	Y	1202.30		R	R	C	R	C	R						R	R		
44R-5, 51–53	X	Y	1209.79		F					A									
44R-CC					A	R	F												
45R-2, 112–114	X		1213.23		C	F													
			1215.45																
45R-CC	X	Y	1221.73			F	R	A				A	F						
46R-4, 85–87	X	Y	1227.84			F						C							
46R-CC			1231.74	Glaconite		C	R	C				F							
47R-CC		Y	1241.61		C	R	C		C										
48R-3, 69–71	X		1245.47		F	R	R	R											
48R-CC		Y	1249.14		A	A	A	A			C								
49R-CC		Y	1259.87		R	R					R					R			
50R-4, 56–58	X		1266.06		F	R													
50R-4, 105–107	X		1266.55		F														
50R-CC		N	1268.98	Wood				R	C			R					F		
51R-1, 142–146	X	Y	1272.12			F	R												
51R-CC			1279.06	Abundant quartz and mica		F	F					A					F		
52R-3, 90–91	X	X	1284.30		R														
52R-4, 91–93		Y	1285.81																
52R-CC		Y	1290.00	Pyrite burrows		R	R	A	F		B		R						
53R-4, 24–26	X	Y	1294.68			F	R	R				F							
53R-CC			1298.19			R													
54R-1, 63–66	X		1300.23				R										C		
54R-CC		Y	1307.67			A	R	F	A		A		R						
55R-1, 90–93	X		1310.10			R	R										F		
55R-CC		Y	1314.90									F							
56R-CC		Y	1324.48					R			B								
57R-CC		Y	1331.42				R	R			B								
58R-CC		Y	1343.02	Very fine quartz sand; rare pyrite			R	A	R		B					F	R	R	R
59R-CC		Y	1353.20			C	F	F	R		A	R				R	R	R	R
60R-2, 25–27	X	Y	1355.45						R										
60R-CC		N	1362.02	Coarse silt, few mica				C			R					R			
61RCC			1372.63	Rare quartz, mica, wood, and pyrite			A	A	A		B								
62R-2, 110–112	X	X	1375.50			R			C?										F
62R-6, 36–38			1380.76																
62R-CC		Y	1382.44	Rare mica, micaceous sandstone fragments			R	R	R		C					R	R	R	A
63R-CC		Y	1392.07				R	R	R		F					R	R	R	R
64R-CC		Y	1401.74				R	A			R					R	R	R	R
65R-CC		Y	1410.72				R	A			B					R	R	R	R
66R-CC		N	1418.55	Very fine sand, mica			R	A	R		B					F	R	F	F

Table T7 (continued).

Core, section, interval (cm)	Thin section	Calcareous	Depth (mbsf)	Epoch	Foraminifers age (Ma)		Planktonic foraminifer zone	Nannofossils age (Ma)		Calcareous nannofossil zone	Dinoflagellate cysts age (Ma)		
					Youngest	Oldest		Youngest	Oldest		Youngest	Oldest	
43R-3, 63–65	X	Y	1197.18				Unzoned						
43R-CC			1202.30	latest Albian	99.1	100.4	KS16	97.6	101.7	NC10a	Not sampled		
44R-5, 51–53	X	Y	1209.79	latest Albian	99.1	100.4	KS16						
44R-CC			1213.23	latest Albian	99.1	100.4	KS16	97.6	101.7	NC10a	Not sampled		
45R-2, 112–114	X		1215.45	latest Albian	99.1	101.7	KS15–KS16						
45R-CC		Y	1221.73				KS15	101.7	105.0	NC9b	101.06	103.18	
46R-4, 85–87	X	Y	1227.84	latest Albian	100.4	101.7	Unzoned						
46R-CC		Y	1231.74	late Albian	100.4	101.7	KS15	101.7	105.0	NC9b	Not sampled		
47R-CC		Y	1241.61	late Albian			Unzoned	101.7	105.0	NC9b	Not sampled		
48R-3, 69–71	X		1245.47				Unzoned						
48R-CC		Y	1249.14	late Albian	100.4	101.7	KS15	101.7	105.0	NC9b	Not sampled		
49R-CC		Y	1259.87	late Albian			Unzoned	101.7	105.0	NC9b	Not sampled		
50R-4, 56–58	X		1266.06				Unzoned						
50R-4, 105–107	X		1266.55				Unzoned						
50R-CC		N	1268.98				Unzoned						
51R-1, 142–146	X	Y	1272.12	late Albian	100.4	101.7	Barren						
51R-CC		Y	1279.06	late Albian			KS15	101.7	105.0	NC9b	Not sampled		
52R-3, 90–91	X		1284.30				Unzoned						
52R-4, 91–93	X		1285.81				Unzoned						
52R-CC		Y	1290.00	late Albian	102.4	105.0	Unzoned						
53R-4, 24–26	X	Y	1294.68	middle—early late Albian	102.4	109.5	Lower KS14						
53R-CC		Y	1298.19	late Albian			KS13–KS14	105.0	106.1	NC9a?	Not sampled		
54R-1, 63–66	X		1300.23				KS13–KS15						
54R-CC		Y	1307.67	late Albian	102.4	105.0	Unzoned	105.0	106.1	NC9a?	Not sampled		
55R-1, 90–93	X		1310.10	early late Albian	102.4	105.0	Lower KS14						
55R-CC		Y	1314.90	middle Albian/late Albian			KS14	105.0	106.1	NC9a	Not sampled		
56R-CC		Y	1324.48	middle Albian/late Albian			Barren	105.0	106.1	NC9a	103.00		
57R-CC		Y	1331.42	middle Albian/late Albian			Unzoned	105.0	106.1	NC9a	Not sampled		
58R-CC		Y	1343.02	middle Albian/late Albian			Barren	105.0	106.1	NC9a	Not sampled		
59R-CC		Y	1353.20	middle Albian			KS13	105.0	106.1	NC9a	Not sampled		
60R-2, 25–27	X	Y	1355.45				Unzoned						
60R-CC		Y	1362.02				Barren	105.0	106.1	NC9a	Not sampled		
61RCC		N	1372.63				Barren						
62R-2, 110–112	X	N	1375.50				Unzoned						
62R-6, 36–38	X		1380.76				Unzoned						
62R-CC		Y	1382.44	middle Albian				Unzoned					
63R-CC		Y	1392.07	middle Albian				KS13?					
64R-CC		Y	1401.74	middle Albian	105.0	109.5	Barren	105.0	106.1	NC9a	Not sampled		
65R-CC		Y	1410.72	middle Albian			Barren	105.0	106.1	NC9a	Not sampled		
66R-CC		N	1418.55	middle Albian			Barren	105.0	106.1	NC9a	Not sampled		

Table T7 (continued).

Core, section, interval (cm)	Thin section	Calcareous	Depth (mbsf)	Comments
43R-3, 63–65	X	Y	1197.18	Size-sorted planktonic foraminifers
43R-CC		Y	1202.30	Common pyritized radiolarian fragments in palynological preparations
44R-5, 51–53	X	Y	1209.79	
44R-CC		Y	1213.23	Size-sorted planktonic and calcareous benthic foraminifers; early Cretaceous reworked calcareous nannofossils
45R-2, 112–114	X		1215.45	
45R-CC	X	Y	1221.73	Size-sorted planktonic and calcareous benthic foraminifers abundant pyritized radiolarian fragments in palynological preparations
46R-4, 85–87	X	Y	1227.84	Size-sorted planktonic foraminifers
46R-CC		Y	1231.74	Reworked Early Cretaceous calcareous nannofossils
47R-CC		Y	1241.61	Abundant pyritized radiolarian fragments and rare sponge spicules in palynological preparations
48R-3, 69–71	X		1245.47	
48R-CC		Y	1249.14	
49R-CC		Y	1259.87	
50R-4, 56–58	X		1266.06	
50R-4, 105–107	X		1266.55	
50R-CC		N	1268.98	
51R-1, 142–146	X	Y	1272.12	
51R-CC		Y	1279.06	Size-sorted planktonic and calcareous benthic foraminifers
52R-3, 90–91	X	X	1284.30	Size-sorted planktonic foraminifers
52R-4, 91–93		Y	1285.81	
52R-CC		Y	1290.00	
53R-4, 24–26	X	Y	1294.68	
53R-CC		Y	1298.19	Size-sorted planktonic foraminifers; reworked Early Cretaceous calcareous nannofossils
54R-1, 63–66	X		1300.23	
54R-CC		Y	1307.67	Reworked Early Cretaceous calcareous nannofossils
55R-1, 90–93	X		1310.10	
55R-CC		Y	1314.90	
56R-CC		Y	1324.48	Pyritized radiolarians
57R-CC		Y	1331.42	Pyritized radiolarians
58R-CC		Y	1343.02	Fragments of inoceramid shell; common pyritized radiolarian fragments in palynological preparations
59R-CC		Y	1353.20	Common pyritized radiolarian fragments in palynological preparations; reworked Early Cretaceous calcareous nannofossils
60R-2, 25–27	X		1355.45	
60R-CC		Y	1362.02	
61RCC		N	1372.63	
62R-2, 110–112	X		1375.50	
62R-6, 36–38	X		1380.76	
62R-CC		Y	1382.44	Size-sorted planktonic and calcareous benthic foraminifers?
63R-CC		Y	1392.07	Size-sorted planktonic and calcareous benthic foraminifers
64R-CC		Y	1401.74	Size-sorted calcareous benthic foraminifers
65R-CC		Y	1410.72	Size-sorted calcareous benthic foraminifers
66R-CC		N	1418.55	

Table T7 (continued).

Core, section, interval (cm)	Thin section	Calcareous	Depth (mbsf)	Lithology
67R-CC 68R-7, bottom 69R-2, 50–53 69R-CC 70R-CC	X	Y N Y Y N	1430.11	Mudstone, dark medium to dark gray
			1440.23	Shale, black
			1441.80	Sandy siltstone, intraclastic
			1447.96	Shale, black with very fine sandstone laminae
			1458.62	Shale, black, soft, fissile, silty, noncalcareous with calcareous silty nodule at base; two lithologies processed separately
71R-CC 72R-CC 73R-CC 74R-CC 75R-5, 64–67	X	N N Y Y X	1468.59	Shale, black, fissile, pyrite on bedding planes
			1477.28	Shale, black, noncalcareous, fissile, moderately soft
			1487.08	Mudstone, black to dark gray with lighter gray siltstone interbeds; siltstone is calcareous
			1495.91	Shale, black; sandstone, very fine, medium gray
			1504.34	Muddy sandstone
75R-5, 147–150 75R-6, 37–40 75R-CC 76R-CC 77R-CC	X	Y X Y Y Y	1505.17	Silty sandstone, carbonate cemented, poorly sorted
			1505.57	Tuff, cross laminated, altered, spiculitic?
			1506.23	Mudstone, dark gray; shale, black
			1517.57	Muddy sandstone, dark gray, friable (drilling paste?)
			1524.85	Mudstone, medium dark gray, hard, calcareous, and siltstone, slightly lighter gray, calcareous, hard, fine laminae; both lithologies washed together as one sample
78R-CC 79R-2, 79–82 79R-4, 18–20 79R-CC 80R-3, 70–73	X	Y X X N X	1535.45	Mudstone, medium dark gray, hard, moderately fissile, calcareous; also dolomite/siderite bed at base of the core catcher—not yet processed
			1538.49	Silty sandstone, quartzose
			1540.88	Mudstone, calcareous, radiolarian-rich partings
			1544.42	Shale/claystone, dark gray; dolomite/siderite bed at base of CC (78R-CC), yellowish gray
			1549.50	Sandy siltstone
80R-CC 81R-3, 64–67 81R-CC 82R-CC 83R-CC	X	Y Y Y N Y	1553.73	Shale/claystone, dark gray
			1559.04	Sandy siltstone
			1563.01	Shale/claystone, dark gray
			1565.67	Siltstone, medium light gray, hard, blocky
			1579.66	Mudstone, medium dark gray and slightly lighter gray; probably drilling paste
84R-CC 85R-4, 107–110 85R-CC 86R-CC 87R-7* 90R-2, 115–117	X	N X Y Y X	1587.70	Mudstone, medium dark gray, moderately hard, blocky, burrowed
			1592.52	Marlstone to sandstone, carbonate cemented, laminated
			1593.87	Mudstone, medium dark gray, moderately hard, blocky
			1602.70	Sandstone, medium gray, poorly sorted with siltstone bed; bioturbated with abundant plant material; some pyrite
			1613.51	Diabase sill
88R-CC 89R-CC 90R-CC 91R-CC	X	Y Y N N	1635.95	Muddy sandstone
			1624.01	Mudstone, dark gray; sandstone, very fine
			1631.64	Sandstone, medium gray; minor mudstone, dark gray
			1642.40	Mudstone, medium dark gray and dark gray, moderately hard, subfissile, silty horizons, minor bioturbation
			1649.77	Mudstone, medium dark gray, fissile, moderately soft
92R-CC 93R-CC 94R-CC 95R-CC 96R-CC	X	N Y N Y Y	1661.48	Sandstone, medium gray; minor mudstone, dark gray, laminated
			1669.60	Shale, black, with coarse silt laminae
			1679.90	Mudstone, medium dark gray, moderately hard, subfissile
			1688.30	Mudstone and clay, dark gray
			1698.49	Clay, dark gray

Table T7 (continued).

Core, section, interval (cm)	Thin section	Calcareous	Depth (mbsf)	>63-µm sieve residue	Planktonic foraminifers	Calcareous benthic foraminifers	Agglutinated foraminifers	Larger benthic foraminifers	Radiolarians	Diatoms	Sponge spicules	Calcareous nanofossils	Palynomorphs	Ostracodes	Fish teeth/bone	Echinoderm spines	Inoceramus	Megaspores	Wood/plant debris
67R-CC		Y	1430.11	Abundant quartz; rare mica															
68R-7, bottom	X	N	1440.23	Few coarse silt/very fine quartz sand	R	R	A				F	B			F		F	F	
69R-2, 50–53		Y	1441.80				F					C							
69R-CC		Y	1447.96			R	C	F			B								
70R-CC		N	1458.62	Nodule barren of microfauna													R		
71R-CC		N	1468.59	Rare pyrite, rare wood, rare mica			R				B						R		
72R-CC		N	1477.28	Rare mica		R	C				B			R			R		
73R-CC		Y	1487.08	Rare mica, pyrite, glauconite		R	R				C						R		
74R-CC		Y	1495.91			C					R						F		
75R-5, 64–67	X		1504.34													R	R	F	
75R-5, 147–150	X		1505.17			R	R	R											
75R-6, 37–40	X		1505.57																
75R-CC		Y	1506.23	Rare pyrite		R	R				R						R		
76R-CC		Y	1517.57	Few mica		R	R				R						F		
77R-CC		Y	1524.85	Residue consists mainly of cemented siltstone grains, common mica		R					F								
78R-CC		Y	1535.45	Rare pyrite, dolomite/siderite chips; possible diatom or, more likely, a plant seed							?	F					?	R	
79R-2, 79–82	X		1538.49			R	R										R		
79R-4, 18–20	X		1540.88					A?											
79R-CC		N	1544.42									F							
80R-3, 70–73	X		1549.50			F	R											F	
80R-CC		Y	1553.73	Rare mica		R	R				F						R		R
81R-3, 64–67	X		1559.04																
81R-CC		Y	1563.01	Common pyrite		R	R				?	C					R		R
82R-CC		N	1565.67	Unsorted angular quartz, mica, rare pyrite			F	C			B						F		
83R-CC		Y	1579.66				R				F					R			
84R-CC		N	1587.70	Rare mica			C				B						R	R	
85R-4, 107–110	X		1592.52			R											F		
85R-CC		Y	1593.87	Rare mica, abundant organic material		R	R	R			C	R				C		A	
86R-CC		Y	1602.70	Rare–common mica, rare pink feldspar															
87R-7*			1613.51					R											
90R-2, 115–117	X		1635.95																
88R-CC		Y	1624.01	Mica														R	
89R-CC		N	1631.64	Mica													R	R	
90R-CC		N	1642.40	Mica												R		R	
91R-CC		N	1649.77	Common pyrite															
92R-CC		N	1661.48	Rare mica, rare pink feldspar		R	R	F			B					R		C	
93R-CC		Y	1669.60	Mica, pyrite		R	R				R					R		R	
94R-CC		N	1679.90	Pyrite common			R				R					R		R	
95R-CC		Y	1688.30	Mica, pyrite, coarse silt/very fine sand		R					F					R		R	
96R-CC		Y	1698.49								C	C				R		F	

Table T7 (continued).

Core, section, interval (cm)	Thin section	Calcareous	Depth (mbsf)	Epoch	Foraminifers age (Ma)		Planktonic foraminifer zone	Nannofossils age (Ma)		Calcareous nannofossil zone	Dinoflagellate cysts age (Ma)	
					Youngest	Oldest		Youngest	Oldest		Youngest	Oldest
67R-CC												
68R-7, bottom	X	Y	1430.11	middle Albian			Unzoned	105.0	106.1	NC9a	Not sampled	
69R-2, 50–53		N	1440.23				Barren			Barren	Not sampled	
			1441.80				Unzoned					
69R-CC		Y	1447.96	middle Albian			Barren	106.1	107.3	NC8c?	Not sampled	
70R-CC		N	1458.62				Barren			Barren	Not sampled	
71R-CC		N	1468.59									
72R-CC		N	1477.28				Barren			Barren	Not sampled	
73R-CC		Y	1487.08	middle Albian			Barren	106.1	107.3	NC8c?	Not sampled	
74R-CC		Y	1495.91	middle Albian			Barren	106.1	107.3	NC8c?	Not sampled	
75R-5, 64–67	X		1504.34				Unzoned					
75R-5, 147–150	X		1505.17				Unzoned					
75R-6, 37–40	X		1505.57				Unzoned					
75R-CC		Y	1506.23	middle Albian			Unzoned	106.1	107.3	NC8c?	Not sampled	
76R-CC		Y	1517.57	middle Albian			Barren	106.1	107.3	NC8c	Not sampled	
77R-CC		Y	1524.85	middle Albian			Barren	106.1	107.3	NC8c?	Not sampled	
78R-CC		Y	1535.45	early–middle Albian								
79R-2, 79–82	X		1538.49				Barren	106.1	112.6	NC8	Not sampled	
79R-4, 18–20	X		1540.88				Unzoned					
79R-CC		N	1544.42				Unzoned					
80R-3, 70–73	X		1549.50				Barren			Unzoned	Not sampled	
80R-CC		Y	1553.73	early–middle Albian								
81R-3, 64–67	X		1559.04				Barren	106.1	112.6	NC8	Not sampled	
81R-CC		Y	1563.01	early–middle Albian			Unzoned					
82R-CC		N	1565.67				Barren	106.1	112.6	NC8	Not sampled	
83R-CC		Y	1579.66	early–middle Albian			Barren	106.1	112.6	Barren	Not sampled	
84R-CC		N	1587.70									
85R-4, 107–110	X		1592.52				Barren					
85R-CC		Y	1593.87	early–middle Albian			Unzoned					
86R-CC		Y	1602.70	early–middle Albian			Barren	106.1	112.6	NC8	Not sampled	
87R-7*			1613.51				Unzoned					
90R-2, 115–117	X		1635.95				Barren	106.1	112.6	NC8	Not sampled	
88R-CC		Y	1624.01	early–middle Albian			Unzoned					
89R-CC		N	1631.64				Barren					
90R-CC		N	1642.40				Barren	106.1	112.6	NC8	Not sampled	
91R-CC		N	1649.77	latest Aptian–early Albian			Barren	110.9	112.6	Barren	Not sampled	
92R-CC		N	1661.48									
93R-CC		Y	1669.60	latest Aptian–early Albian			Unzoned	110.9	112.6	Barren	Not sampled	
94R-CC		N	1679.90	latest Aptian–early Albian			Unzoned	110.9	112.6	NC8a	Not sampled	
95R-CC		Y	1688.30	latest Aptian–early Albian			Unzoned	110.9	112.6	NC8a	Not sampled	
96R-CC		Y	1698.49	latest Aptian–early Albian			Barren	110.9	112.6	NC8a	Not sampled	

Table T7 (continued).

Core, section, interval (cm)	Thin section	Calcareous	Depth (mbsf)	Comments
67R-CC 68R-7, bottom 69R-2, 50–53 69R-CC 70R-CC	X	Y N Y N	1430.11 1440.23 1441.80 1447.96 1458.62	Size-sorted planktonic foraminifers; reworked Early Cretaceous calcareous nannofossils Small, spherical pyritized radiolarians; low-diversity, small agglutinated foraminifers
71R-CC 72R-CC 73R-CC 74R-CC 75R-5, 64–67		N N Y Y X	1468.59 1477.28 1487.08 1495.91 1504.34	
75R-5, 147–150 75R-6, 37–40 75R-CC 76R-CC 77R-CC	X X	Y Y Y Y	1505.17 1505.57 1506.23 1517.57 1524.85	Rare bryozoans, mollusk fragments, and calcareous algae? Reworked bathyal calcareous benthics; reworked Early Cretaceous calcareous nannofossils Reworked bathyal calcareous benthics
78R-CC 79R-2, 79–82 79R-4, 18–20 79R-CC 80R-3, 70–73	X X N X	Y Y Y Y	1535.45 1538.49 1540.88 1544.42 1549.50	Rare calcareous algae?
80R-CC 81R-3, 64–67 81R-CC 82R-CC 83R-CC	X	Y Y N Y	1553.73 1559.04 1563.01 1565.67 1579.66	Pyritized radiolarians Rare calcareous algae?
84R-CC 85R-4, 107–110 85R-CC 86R-CC 87R-7* 90R-2, 115–117 88R-CC 89R-CC 90R-CC 91R-CC	X	N Y Y Y X	1587.70 1592.52 1593.87 1602.70 1613.51 1635.95 1624.01 1631.64 1642.40 1649.77	Barren Dolerite sill Rare calcareous algae? Rare reworked Jurassic calcareous nannofossils Rare reworked Jurassic calcareous nannofossils Rare calcareous benthic foraminifers are very poorly preserved and tiny, rare frambooidal pyrite
92R-CC 93R-CC 94R-CC 95R-CC 96R-CC		N Y N Y Y	1661.48 1669.60 1679.90 1688.30 1698.49	Rare reworked Jurassic calcareous nannofossils Rare shell fragments; rare reworked Jurassic calcareous nannofossils

Table T7 (continued).

Core, section, interval (cm)	Thin section	Calcareous	Depth (mbsf)	Lithology
97R-CC			1706.57	Clay, dark gray
98R-CC*	N		1714.18	Diabase sill
99R-CC*			1725.16	Diabase sill

Notes: * = igneous core catchers. Y = yes, N = no. N = calcareous nannofossils, D = dinoflagellates, F = foraminifers. Abundance: A = abundant, C = common, F = few, R = rare, B = barren.

Table T7 (continued).

Core, section, interval (cm)	Thin section	Calcareous	Depth (mbsf)	>63-µm sieve residue	Planktonic foraminifers	Calcareous benthic foraminifers	Agglutinated foraminifers	Larger benthic foraminifers	Radiolarians	Diatoms	Sponge spicules	Calcareous nanofossils	Palynomorphs	Ostracodes	Fish teeth/bone	Echinoderm spines	Inoceramus	Megaspores	Wood/plant debris
97R-CC																			
98R-CC*	N	1706.57		Common pyrite					R		B								
99R-CC*		1714.18																	R
		1725.16																	

Rw = reworked.

Table T7 (continued).

Core, section, interval (cm)	Thin section	Calcareous	Depth (mbsf)	Epoch	Foraminifers age (Ma)		Planktonic foraminifer zone	Nannofossils age (Ma)		Calcareous nannofossil zone	Dinoflagellate cysts age (Ma)	
					Youngest	Oldest		Youngest	Oldest		Youngest	Oldest
					Barren			Barren			Not sampled	
97R-CC 98R-CC* 99R-CC*	N		1706.57 1714.18 1725.16									

Table T7 (continued).

Core, section, interval (cm)	Thin section	Calcareous	Depth (mbsf)	Comments	
97R-CC			1706.57		
98R-CC*			1714.18	Dolerite sill	
99R-CC*			1725.16	Dolerite sill	