

Table T11. Distribution of palynomorphs, Hole 1276A. (See table note. Continued on next five pages.)

Core, section	Lithologic unit	Depth (mbsf)	Lithology	Color	Palynomorph yield	Age (Ma)		Stage	Achilleodinium biformoides	Achomosphaera alcornu	Adnatosphaeridium multispinosum	Alisocysta cf. margarita	Alisocysta circumtabulata	Alisocysta reticulata	Areoligera semicirculata	Areoligera senonensis	Areosphaeridium dictyoplopus	Calliosphaeridium trycherium	Carpateella cornuta	Carpodinium obliquicostatum	Carpodinium granulatum	Cassiculosphaeridia reticulata	Cerebrocysta bartonensis	
						Youngest	Oldest																	
210-1276A-1R-CC	1	759.19	Mudstone	Gray	Good	32.00	33.70	early Rupelian		x					x									
2R-CC		803.51	Mudstone	Gray	Good	33.50	36.50	early Rupelian/Priabonian																
3R-CC		819.26	Mudstone	Gray	Good	33.60	36.40	Priabonian															x	
4R-CC		825.90	Mudstone	Gray	Good	36.50	38?	early Priabonian/late Bartonian	x	x						r								
5R-CC		838.15	Mudstone	Gray	Good	38.50	40.00	mid-Bartonian		x	x												x	
6R-CC		847.40	Mudstone	Dark	Good	39.00	41.00	Bartonian		x	x												x	
7R-CC		857.68	Mudstone	Dark	Good	38.00	41.00	Bartonian								r	x						x	
8R-CC		866.13	Mudstone	Red and green	Barren																			
9R-CC		2	876.92	Mudstone	Red and green	Barren																		
10R-CC	885.37		Mudstone	Red and green	Barren																			
11R-CC	894.58		Mudstone	Red and green	Barren																			
12R-CC	902.69		Mudstone	Red and green	Barren																			
13R-CC	910.39		Sandstone	White and green	Not sampled																			
14R-CC	920.64		Siltstone	White and red	Barren																			
15R-CC	933.33		Sandstone	White and red	Not sampled																			
16R-CC	3		942.23	Mudstone	Dark	Good	61.37	62.50	late Danian		x				x									
17R-CC			953.66	Mudstone	Dark	Good	60.33	61.70	late Danian				x											
18R-CC		963.40	Mudstone	Dark	Good	63.00	64.75	early Danian											x					
19R-CC		970.55	Mudstone	Red	Barren																			
20R-CC		982.82	Mudstone	Dark	Good	63.72	64.75	early Danian					x											
21R-CC		988.32	Sandstone	Green	Not sampled																			
22R-CC		997.41	Mudstone	Green	Barren																			
23R-CC		1006.86	Mudstone	Red	Barren																			
24R-CC		4	1019.07	Mudstone	Red and green	Barren																		
25R-CC	1030.41		Mudstone	Green and red	Barren																			
26R-CC	1034.04		Mudstone	Green and red	Barren																			
27R-CC	1050.18		Siltstone	Green and red	Barren																			
28R-CC	1057.36		Mudstone	Green and red	Barren																			
29R-CC	5A		1067.61	Mudstone	Gray	Fair	88.70	92.50	early Turonian															
30R-CC			1076.64	Mudstone	Dark	Good	92.5	93.50	early Turonian															
31R-CC			1086.88	Mudstone	Dark	Good	92.50	96.00	early Turonian/mid-Cenomanian															
32R-CC			1098.33	Mudstone	Dark	Good	92.50	100.50	Cenomanian															
33R-CC		1107.76	Mudstone	Dark	Good	95.84	100.00	early Cenomanian																
34R-CC		1113.78	Mudstone	Light gray	Barren																			
35R-CC		1126.87	Sandstone	Green and red	Not sampled																			
36R-CC		5B	1135.58	Mudstone	Light gray																			
37R-CC			1145.43	Mudstone	Light gray																			
38R-CC	1155.44		Mudstone	Gray																				

210-1276A-

[illegible]

[illegible]

Table T11 (continued).

Core, section	Lithologic unit	Depth (mbsf)	Lithology	Color	Palynomorph yield	Age (Ma)		Stage	Achilleodinium biformoides Achromosphaera alcornu Adnatosphaeridium multispinosum Alisocysta cf. margarita Alisocysta circumtabulata Alisocysta reticulata Areoligera semicirculata Areoligera senonensis Areosphaeridium dictyopokus Calliosphaeridium trycherium Carpateella cornuta Carpodinium obliquicostatum Carpodinium granulatum Cassiculosphaeridia reticulata Cerebrocysta bartonensis
						Youngest	Oldest		
39R-CC		1164.03	Mudstone	Dark	Barren	96.00	98.90	early Cenomanian	
40R-CC		1173.96	Silty sandstone	Green and red					
41R-CC		1183.69	Mudstone	Dark		98.90	100.00	late Albian	
42R-CC		1194.10	Mudstone	Dark	Good				
43R-CC		1201.98	Mudstone	Dark					
44R-CC		1212.91	Mudstone	Dark					
45R-CC		1221.50	Mudstone	Light gray		101.06	103.18	middle/late Albian	
46R-CC		1231.43	Siltstone	Gray					
47R-CC		1241.32	Mudstone	Dark					
48R-CC		1248.95	Mudstone	Dark					
49R-CC		1259.87	Siltstone	Gray					
50R-CC		1268.98	Mudstone	Dark					
51R-CC		1279.06	Mudstone	Dark					
52R-CC		1290.00	Mudstone	Dark	Not sampled Good				
53R-CC		1298.19	Silty sandstone	Dark					
54R-CC		1307.67	Mudstone	Dark					
55R-CC		1315.03	Silty sandstone	Green and red					
56R-CC		1324.66	Mudstone	Dark		103.00	107.00	early Aptian	
57R-CC		1331.42	Mudstone	Dark					
58R-CC		1343.18	Mudstone	Dark					
59R-CC		1353.40	Mudstone	Dark					
60R-CC		1362.09	Mudstone	Dark					
61R-CC		1372.78	Mudstone	Dark					
62R-CC		1382.44	Mudstone	Dark					
63R-CC		1392.07	Mudstone	Dark					
64R-CC		1401.81	Mudstone	Dark					
65R-CC		1410.79	Mudstone	Dark					
66R-CC		1418.66	Mudstone	Dark					
67R-CC		1430.11	Mudstone	Dark					
68R-CC		1440.13	Mudstone	Dark					
69R-CC		1447.96	Mudstone	Dark					
70R-CC		1458.78	Mudstone	Dark					

Note: x = species present, r = reworked species, c = contamination.

Table T11 (continued).

Core, section	Lithologic unit	Depth (mbsf)	<i>Cerodinium diebelii</i> <i>Cerodinium speciosum</i> <i>Cerodinium wardense</i> <i>Charlesdownia clathrata</i> <i>Charlesdownia coleothrypta</i> <i>Chatangiella verrucosa</i> <i>Chichadinium vestitum</i> <i>Chlamydothorella nyei</i> <i>Chytroisphaeridia explanata</i> <i>Cleistosphaeridium huguoniotii</i> <i>Codoniella psygma</i> <i>Cordosphaeridium cantharellum</i> <i>Coronifera oceanica</i> <i>Cribroperidinium tenuitubulatum</i> <i>Cyclonephelium hystrix</i> <i>Cyclonephelium membraniphorum</i> <i>Damassadinium californicum</i> <i>Dapsilidinium laminaspinosum</i> <i>Deflandrea phosphorica</i> <i>Dinopterygium cladoideis</i> <i>Diphyes colligerum</i> <i>Distatodinium craterum</i> <i>Distatodinium ellipticum</i> <i>Dracodinium condylos</i> <i>Endoscrinium campanula</i> <i>Enneadocysta arcuata</i> <i>Enneadocysta pectiniformis</i> <i>Epipelidosphaeridia spinosa</i> <i>Florentinia clavigera</i> <i>Florentinia deaniei</i> <i>Florentinia mantellii</i> <i>Glaphyrocysta semitecta</i> <i>Hapsocysta peridictya</i> <i>Hemiplacophora semilunifera</i> <i>Heteraulacacysta campanula</i> <i>Heteraulacacysta leptalea</i> <i>Hystriocholpoma cinctum</i> <i>Hystriocholpoma salacium</i> <i>Kiokansium williamsii</i> <i>Kleithrisphaeridium cf. loffrense</i> <i>Lentinia serrata</i> <i>Litosphaeridium arundum</i> <i>Litosphaeridium conispinum</i> <i>Litosphaeridium siphoniphorum</i> <i>Melittasphaeridium asterium</i>
39R-CC		1164.03	
40R-CC		1173.96	
41R-CC		1183.69	
42R-CC		1194.10	
43R-CC		1201.98	
44R-CC		1212.91	
45R-CC		1221.50	
46R-CC		1231.43	
47R-CC		1241.32	
48R-CC		1248.95	
49R-CC		1259.87	
50R-CC		1268.98	
51R-CC		1279.06	
52R-CC		1290.00	
53R-CC		1298.19	
54R-CC		1307.67	
55R-CC		1315.03	
56R-CC		1324.66	
57R-CC		1331.42	
58R-CC		1343.18	
59R-CC		1353.40	
60R-CC		1362.09	
61R-CC		1372.78	
62R-CC		1382.44	
63R-CC		1392.07	
64R-CC		1401.81	
65R-CC		1410.79	
66R-CC		1418.66	
67R-CC		1430.11	
68R-CC		1440.13	
69R-CC		1447.96	
70R-CC		1458.78	

Table T11 (continued).

Core, section	Lithologic unit	Depth (mbsf)	<i>Odontochitina</i> cf. <i>porosa</i> <i>Odontochitina operculata</i> <i>Oligosphaeridium asterigum</i> <i>Oligosphaeridium complex</i> <i>Oligosphaeridium pulcherrimum</i>	<i>Ovoidinium verrucosum</i> <i>Palaeocystodinium australinum</i> <i>Palaeocystodinium golzowense</i> <i>Palaeohystrichophorum infusorioides</i> <i>Palaeoperidinium pyrophorum</i>	<i>Pentadinium laticinctum</i> <i>Pervosphaeridium truncatum</i> <i>Phthanoperidinium amoenum</i> <i>Phthanoperidinium echinatum</i> <i>Pterodinium cingulatum</i>	<i>Rhombodinium draco</i> <i>Samlandia chlamyophora</i> <i>Senoniasphaera inornata</i> <i>Senoniasphaera rotundata</i> <i>Senoniasphaera rotundata alveolata</i>	<i>Spinidinium densispinatum</i> <i>Spongodinium delitense</i> <i>Stephodinium coronatum</i> <i>Stiphrosphaeridium dictyophorum</i> <i>Surculosphaeridium longifurcatum</i>	<i>Systematophora placacantha</i> <i>Tanyosphaeridium variecalamus</i> <i>Tectatodinium pellitum</i> <i>Tehamadinium</i> cf. <i>mazaganensis</i> <i>Thalassiphora pelagica</i>	<i>Trichodinium castanea</i> <i>Trithyrodinium suspectum</i> <i>Wetzelella samlandica</i> <i>Wetzelella spinula</i> <i>Xenascus ceratioides</i> <i>Xiphophoridium alatum</i>
39R-CC		1164.03	x	x	x				x
40R-CC		1173.96							
41R-CC		1183.69	x	x	x				
42R-CC		1194.10							
43R-CC		1201.98							
44R-CC		1212.91							
45R-CC		1221.50	x	x				x	
46R-CC		1231.43							
47R-CC		1241.32							
48R-CC		1248.95							
49R-CC		1259.87							
50R-CC		1268.98							
51R-CC		1279.06							
52R-CC		1290.00							
53R-CC		1298.19							
54R-CC		1307.67							
55R-CC		1315.03							
56R-CC		1324.66	x	x	x				
57R-CC		1331.42							
58R-CC		1343.18							
59R-CC		1353.40							
60R-CC		1362.09							
61R-CC		1372.78							
62R-CC		1382.44							
63R-CC		1392.07							
64R-CC		1401.81							
65R-CC		1410.79							
66R-CC		1418.66							
67R-CC		1430.11							
68R-CC		1440.13							
69R-CC		1447.96							
70R-CC		1458.78							