

Table T17. Dinoflagellate cyst, pollen, and palynomorph range chart, Holes U1344A and U1344E. (See table notes.) (Continued on next two pages.)

Core, section	Depth (mbsf)	Presentation	Marine	Pollen and spores		Freshwater	Dinoflagellate cyst assemblages												
							Dinoflagellate cyst assemblages												
				Top	Bottom		Operculodinium concentricum - Arctic morphotype			Operculodinium concentricum var. short processes			Operculodinium concentricum var. long processes			Operculodinium concentricum var. long processes			
323-U1344A-		Oxygenic lighting of foraminifera	Dinoflagellate cysts	Hollowium	Tintinnids	Reticuloflagellates + Pedoflagellata	Spores of heteropyletes	Spores of spumellaria	Plants	Total pollen	Pollen (spores)	Pollen (spores)	Pollen (spores)	Pollen (spores)	Pollen (spores)	Pollen (spores)	Pollen (spores)		
1H-CC	9.00	9.14	G	A	F	R	F	C	R	R	R	R	R	R	R	R	R	R	
2H-CC	18.55	18.75	G	A	R	R	F	C	R	R	R	R	R	R	R	R	R	R	
3H-CC	28.49	28.72	G	C	R	R	C	R	R	R	R	R	R	R	R	R	R	R	
4H-CC	37.84	38.22	G	C	R	R	R	C	R	R	R	R	R	R	R	R	R	R	
5H-CC	47.07	47.61	G	A	R	C	R	C	R	R	R	R	R	R	R	R	R	R	
6H-CC	56.91	57.29	M	C	R	R	F	R	F	R	R	R	R	R	R	R	R	R	
7H-CC	66.02	66.68	G	C	R	F	F	F	R	R	R	R	R	R	R	R	R	R	
8H-CC	74.72	75.32	G	C	R	R	R	R	C	F	F	R	R	R	R	R	R	R	
9H-CC	84.52	85.21	G	A	R	C	R	C	F	C	R	R	R	R	R	R	R	R	
10H-CC	94.68	95.19	G	C	R	R	R	R	F	C	F	R	R	R	R	R	R	R	
12H-CC	113.63	113.96	G	C	R	C	R	C	C	C	C	R	R	R	R	R	R	R	
14H-CC	132.47	132.89	G	A	R	C	R	R	C	C	C	R	R	R	R	R	R	R	
16H-CC	151.86	152.23	M	A	F	C	R	R	C	C	C	R	R	R	R	R	R	R	
18H-CC	170.98	171.34	G	A	R	C	R	R	F	C	C	C	R	R	R	R	R	R	
20H-CC	190.09	190.40	M	C	F	C	R	R	C	C	C	C	R	R	R	R	R	R	
22H-CC	208.45	208.83	M	C	R	C	R	R	R	C	C	C	R	R	R	R	R	R	
24H-CC	226.24	226.67	M	C	R	R	R	R	R	C	C	R	R	R	R	R	R	R	
26H-CC	245.00	245.49	M	C	R	C	R	C	C	F	R	R	R	R	R	R	R	R	
28X-CC	263.51	263.83	M	C	R	C	R	C	C	C	C	R	R	R	R	R	R	R	
30X-CC	280.01	280.31	M	C	C	F	R	F	F	R	R	R	R	R	R	R	R	R	
32X-CC	298.35	299.17	G	A	R	R	R	R	F	R	R	R	R	R	R	R	R	R	
34X-CC	318.09	318.41	M	A	R	F	R	R	F	R	R	R	R	R	R	R	R	R	
36X-CC	338.59	338.89	M	A	R	C	R	R	C	C	F	R	R	R	R	R	R	R	
38X-CC	356.47	357.08	M	A	R	C	R	R	C	C	F	C	R	R	R	R	R	R	
40X-CC	372.96	373.19	M	F	R	C	R	R	C	C	F	C	R	R	R	R	R	R	
42X-CC	397.19	397.51	P	C	R	R	R	R	R	F	R	R	R	R	R	R	R	R	
44X-CC	414.48	414.98	M	C	F	F	R	C	C	F	R	C	R	R	R	R	R	R	
46X-CC	433.40	434.10	M	C	R	C	R	R	C	C	R	F	R	R	R	R	R	R	
48X-CC	451.59	451.69	M	C	R	C	R	R	C	C	F	R	F	R	R	R	R	R	
49X-CC	461.10	461.85	M	C	R	F	R	R	C	C	R	R	F	R	R	R	R	R	
50X-CC	473.28	473.49	G	C	R	C	R	R	R	C	C	R	F	R	R	R	R	R	
51X-CC	482.25	482.67	M	C	R	F	R	F	F	R	R	R	F	R	R	R	R	R	





Table T17 (continued). (Continued on next page.)

Core, section	Depth (mbsf)		Marine	Pollen and spores		Freshwater	Dinoflagellate cyst assemblages											
				Pollen	Spores		Tintinnids	Reworked	Preservation	Halodinium	Bolivococcales + Pediatinum	Sporozoans	Leptodictyina	Leptodictyina	Peridiniidae	Peridiniidae	Peridiniidae	Peridiniidae
	Top	Bottom		Pollen (shrub)	Pollen (tree)													
52X-CC	492.72	493.20	G	A	F	C	R	R	R	R	R	R	R	R	R	R	R	R
53X-CC	501.70	502.13	M	C	F	F	F	F	F	F	F	F	F	F	F	F	F	F
54X-CC	511.57	511.96	M	C	C	R	R	R	R	C	C	C	C	C	C	C	C	C
56X-CC	529.96	530.31	P	C	R	C	R	R	R	C	C	C	C	C	C	C	C	C
58X-CC	549.10	549.57	G	A	R	C	R	R	R	C	C	C	C	C	C	C	C	C
60X-CC	567.17	567.42	M	A	R	R	R	R	R	C	C	C	C	C	C	C	C	C
62X-CC	587.21	587.61	M	C	C	R	C	R	R	C	C	C	C	C	C	C	C	C
64X-CC	607.34	607.73	P	F	C	R	C	R	R	C	C	C	C	C	C	C	C	C
65X-CC	617.66	618.08	P	F	R	C	F	R	R	C	C	C	C	C	C	C	C	C
68X-CC	645.53	646.00	M	F	R	C	R	R	R	C	C	C	C	C	C	C	C	C
70X-CC	666.07	666.45	P	R	F	F	R	R	R	C	C	C	C	C	C	C	C	C
72X-CC	683.22	683.55	M	F	R	F	R	R	R	C	C	C	C	C	C	C	C	C
74X-CC	703.36	703.69	M	C	R	C	C	R	R	R	R	R	R	R	R	R	R	R
76X-CC	722.78	723.11	M	C	F	C	C	R	R	R	R	R	R	R	R	R	R	R
78X-CC	739.55	739.75	M	C	R	C	R	R	R	C	C	C	C	C	C	C	C	C
79X-CC	746.28	746.59	M	F	R	C	C	C	C	R	R	R	R	R	R	R	R	R
323-U1344E-	5.08	5.34	G	C	F	F	R	R	F	C	C	F	C	C	F	R	A	R
	14.81	15.02	G	C	R	R	R	R	R	R	R	R	R	R	R	R	A	R
	24.61	24.85	G	A	F	F	R	R	F	R	F	R	R	R	R	R	A	R
	34.38	34.68	G	C	R	C	R	R	R	C	C	R	R	R	R	R	A	D
	43.43	43.82	G	C	R	F	R	R	R	F	F	R	R	R	R	R	A	D
	52.98	53.38	G	A	R	R	R	R	R	R	R	F	R	R	R	R	A	D
	61.65	62.10	G	C	R	C	R	R	R	R	R	R	R	R	R	R	A	D
	71.71	72.05	M	A	C	C	R	R	R	C	C	C	C	C	F	R	A	D
	80.97	81.37	M	C	C	C	R	R	R	C	C	C	R	R	R	R	A	D
	90.36	90.85	G	A	F	F	R	R	R	C	C	C	R	R	R	R	A	D
	102.61	103.05	G	C	F	F	R	R	R	C	C	C	F	R	R	R	F	D
	112.55	112.90	M	F	R	C	C	C	C	C	C	C	C	C	F	R	A	R
	122.12	122.46	M	C	F	F	R	R	R	F	F	F	F	R	R	R	A	D
	126.80	127.10	M	C	R	C	R	R	R	C	C	C	F	R	R	R	F	D
	136.15	136.51	M	C	R	C	R	R	R	C	C	C	F	R	R	R	F	D
	144.75	145.03	G	A	F	R	R	R	R	C	R	R	C	R	R	R	D	D
	155.04	155.49	G	A	F	R	R	R	R	C	R	R	C	R	R	R	D	R

Table T17 (continued).

Core, section	Depth (mbsf)		Marine	Pollen and spores		Freshwater	Dinoflagellate cyst assemblages													
				Top	Bottom		Preservation		Tintinnids		Reworked pelagic organic debris		Filiphorea filiformata		Island tunicate fauna		Leptomedusae spp.		Operculodinium centroconicum var. spot processes	
									Pollen	Spores	Pollen	Spores	Pollen	Spores	Pollen	Spores	Pollen	Spores	Pollen	Spores
19H-CC	165.04	165.44	G	A	R	C	C	C	C	C	C	C	C	C	R	D	R	R	R	R
20H-CC	173.85	174.28	M	C	R	C	C	C	C	C	C	C	C	C	A	D	A	A	A	A
21H-CC	182.30	182.62	G	C	R	C	R	R	C	C	C	C	C	C	F	D	D	D	D	D
22H-CC	193.59	193.85	G	C	R	C	R	R	C	C	C	C	C	C	R	D	A	A	A	A
23H-CC	202.41	202.79	G	C	R	C	R	R	C	C	C	C	C	C	F	D	F	F	F	F

Notes: Absolute abundance: A = abundant (>2000/cm³), C = common (>200/cm³), F = few (>100/cm³), R = rare (<100/cm³). Relative abundance of dinoflagellate cysts: D = dominant (>30%), A = abundant (>10%), F = few (>5%), R = rare (<5%), P = occurrence (when counts are <20). Preservation: G = good, M = moderate, P = poor.

