Table T15. Dinoflagellate cyst, pollen, and palynomorph range chart, Holes U1345A, U1345B, and U1345C. (**See table notes.**)

Core, section	Depth (mbsf) Top	Depth (mbsf) Bottom	Preservation	Marine: Dinoflagellate cysts	Marine: Organic lining of foraminifers	Pollen and spores: *Picea*	Pollen and spores: *Pinus*	Pollen and spores: Pollen (herbs)	Pollen and spores: Pollen (shrubs)	Pollen and spores: Pollen (trees)	Pollen and spores: Total pollen	Pollen and spores: Spores of *Sphagnum*	Pollen and spores: Spores of pteridophytes	Fresh water: *Botryococcus* + *Pediastrum*	Fresh water: *Hallodinium*	Reworked palynomorphs	Dinoflagellate cyst assemblages: *Bitectatodinium tepikiense*	Dinoflagellate cyst assemblages: *Brigantedinium cariacoense*	Dinoflagellate cyst assemblages: *Brigantedinium simplex*	Dinoflagellate cyst assemblages: *Brigantedinium* spp.	Dinoflagellate cyst assemblages: *Echinidinium aculeatum*	Dinoflagellate cyst assemblages: *Impagidinium* spp.	Dinoflagellate cyst assemblages: *Islandinium* cf. *brevispinosum*	Dinoflagellate cyst assemblages: *Islandinium immutum*	Dinoflagellate cyst assemblages: *Islandinium* morphotype *cesare*	Dinoflagellate cyst assemblages: *Operculodinium centrocarpum*	Dinoflagellate cyst assemblages: *Operculodinium centrocarpum* - Arctic morphotype	Dinoflagellate cyst assemblages: *Operculodinium centrocarpum* var. short processes	Dinoflagellate cyst assemblages: *Pentapharsodinium dalei*	Dinoflagellate cyst assemblages: *Polykrikos* - Arctic morphotype	Dinoflagellate cyst assemblages: *Polykrikos schwartzii*	Dinoflagellate cyst assemblages: *Protoperidinium americanum*	Dinoflagellate cyst assemblages: *Quinquecuspis concreta*	Dinoflagellate cyst assemblages: *Spiniferites elongatus*
323-U1345A-																																	
1H-CC	4.3	4.4	G	A	F	F		R	R	F	C	C	F	F		R		R	A	D		R		A		A		R				R		R
2H-CC	14.0	14.1	G	A	C	R	R	R		F	F	R	F	F		R		R	A	D	R			A	R	R								
3H-CC	23.8	23.9	G	C	F	C	R	R	R	C	C	F	C	F		R		F	A	D				A		R	R				R			
4H-CC	33.3	33.4	G	A	R	C	R		R	C	C	R	C			R	R	R	A	D				A		R								
5H-CC	42.9	43.0	G	A	C	F				C	C	R	R	F		R		R	F	A			R	D	R									
6H-CC	51.5	51.6	G	A	F	C	R	R	F	C	C	C	C	C		R		R	A	D				A		F		R						R
7H-CC	61.7	61.8	M	A	R	C	F			C	C	C	C	C		F		R	A	D				A		R								
8H-CC	71.0	71.1	G	C	R	R	R		R	F	F	F	R	R		R		R	A	D				R				R				R		
9H-CC	80.5	80.6	G	C	R	F			R	F	F	F		R		R		F	A	D			R	A										
10H-CC	88.3	88.4	G	C	C	C	R	R	R	C	C	F	C	C		R		R	D	D				R					R					R
11H-CC	98.4	98.5	M	C	R	C				C	C		R	F		R		R	A	D				R										
12H-CC	108.4	108.5	G	C	R	F			R	F	F	R	R	R				R	A	D				D								R		
13H-CC	118.9	119.0	G	A		F		R		F	C	C	F	F				F	D	D				R								R		
14H-CC	128.0	128.1	M	C	R	C				C	C		F	R		R		R	A	D				A										
15H-CC	138.0	138.1	G	A	F	C				C	C	C	F	F				F	A	D				A		R						F		
16H-CC	147.3	147.4	G	C	C	C	R			C	C		F	F		C			A	D				F		F	R	R						
323-U1345B-																																	
Mudline			G	A	C	C		R	R	C	C	R	R	R	C			R	R	A	R			D		R	R					R		
323-U1345C-																																	
2H-CC	15.7	15.8	G	C	F	R				R	R	R	R	R		R	R		A	D				A						F				
4H-CC	35.0	35.1	G	A	C	R				R	R		R	F		R		R	A	D				A								F		
6H-CC	53.8	53.9	G	C	R	R			R	R	F		R	R		R		R	F	D				A										
8H-CC	72.5	72.6	M	C	R	R				R	R		R			R			A	D		R				F								
10H-CC	91.8	91.9	G	C	R	R	R		R	R	R	R	R	R		R	R	F	A	D			R	A										
12H-CC	111.0	111.1	M	F	R	C	F		R	C	C	C	R	F		R		F	A	D				A										
14H-CC	129.8	129.9	G	A		R				R	R	R	R	R		C			F	A				D								R		
16H-CC	148.4	148.5	M	C	R	C			R	C	C	F		R		F		F	A	D				A										

Notes: Absolute abundance: A = abundant (>2000/cm^3), C = common (>200/cm^3), F = few (>100/cm^3), R = rare (<100/cm^3). 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.