Supplementary Materials

Species	Volumes (µm³)	From Young and Ziveri (2000)		Equivalent Spherical Diameters (µm)	
	Min.	Max.		Min.	Max.
C. pelagicus	13	246		2.92	7.77
C. leptoporus	10	106		2.67	5.87
O. fragilis	9	36		2.58	4.10
H. carteri	27	86		3.72	5.48
G. muellerae	1.4	4.6		1.39	2.06
G. oceanica	2.14	6.2		1.60	2.28
E. huxleyi	0.31	1.8		0.84	1.51

Table 1. Conversion of typical coccolith volumes to equivalent spherical diameters, using the formula for a sphere.

$CaCO_3$ particle volume frequency distribution in 256 size bins distributed on a log basis across the 9.37 µm equivalent spherical diameter sizing window (0.63 to 10 µm), from 1770 to 2004. Individual bin values normalised by dividing by the total number of counts in that sample.