TABLE 1. *Cell carbon, volume and surface area, and ratios of* C/A *and* C/V *for various phytoplankton organisms*

Organism	Carbon content/cell (picograms)	Cell surface area (μ^2)	Cell volume (μ^3)	C/A (picogram/μ^2)	C/V (picogram/μ^3)
Coccolithus huxleyi	4.1	37	20.6	0.11	0.201
	3.7	29	14.2	0.13	0.258
Cyclotella nana	40	220	220	0.20	0.184
	15	136	120	0.19	0.123
	19	169	168	0.11	0.113
Dunaliella tertiolecta	43	202	300	0.20	0.143
	52	238	316	0.22	0.164
Skeletonema costatum	33	139	312	0.24	0.105
Syracosphaera elongata	229	610	1,380	0.38	0.166
	267	675	1,610	0.40	0.166
	196	570	1,250	0.34	0.157
Thalassiosira fluviatilis	150	1,000	1,610	0.15	0.093
	139	800	1,390	0.17	0.100
	187	727	1,500	0.26	0.124
	89	803	1,720	0.11	0.052
	122	803	1,720	0.15	0.071
	118	928	2,150	0.13	0.055
	128	842	1,840	0.15	0.070
	253	1,106	2,750	0.23	0.092
	292	1,513	4,360	0.19	0.067
	193	1,298	3,500	0.15	0.055
Thalassiosira rotula	288	1,273	3,480	0.23	0.083
Peridinium trochoideum	1,270	1,950	8,250	0.65	0.154
Gonyaulax polyedra	990	3,180	16,800	0.32	0.059
Striatella unipunctata	2,900	9,110	36,700	0.32	0.079
Ditylum brightwellii	911	6,250	35,000	0.15	0.026
	813	6,830	32,000	0.12	0.025
	1,485	16,320	120,000	0.09	0.012
	1,370	9,832	54,600	0.14	0.025
	1,220	11,440	89,400	0.11	0.014
Rhizosolenia setigera	820	5,882	13,200	0.14	0.062
	2,140	26,500	174,000	0.08	0.012
	3,040	24,900	150,000	0.12	0.020
	1,240	10,762	37,000	0.12	0.034
Coscinodiscus sp.	20,800	42,200	600,000	0.49	0.035
Coscinodiscus concinnus	111,000	192,400	6,200,000	0.58	0.018
	117,000	178,000	5,290,000	0.66	0.023