

Bin #	Size (diameter, Dp)		Dp	dDp	dlogDp	# of particles in Interval	Number		Surface		Mass size	
							size	distribution	area size	distribution	size	distribution
	Interval									dNi/dDpi	dN/DlogDp	Si
i	μm		μm	μm	unitless	# cm ⁻³	cm ⁻³ μm ⁻¹	# cm ⁻³	μm ² cm ⁻³	μm ² cm ⁻³	μg m ⁻³	μg m ⁻³
1	0.010	—	0.020	0.015	0.301	2.50E+03	2.50E+05	8304.82	1.77	5.87	6.62E-03	2.20E-02
2	0.020	—	0.040	0.030	0.301	3.00E+03	1.50E+05	9965.78	8.48	28.16	6.36E-02	2.11E-01
3	0.040	—	0.070	0.055	0.243	1.20E+03	4.00E+04	4937.50	11.40	46.90	1.57E-01	6.45E-01
4	0.070	—	0.100	0.085	0.155	1.80E+02	6.00E+03	1162.03	4.08	26.36	8.68E-02	5.60E-01
5	0.100	—	0.200	0.150	0.301	6.00E+02	6.00E+03	1993.16	42.39	140.82	1.59E+00	5.28E+00
6	0.200	—	0.400	0.300	0.301	3.00E+02	1.50E+03	996.58	84.78	281.63	6.36E+00	2.11E+01
7	0.400	—	0.700	0.550	0.243	2.00E+01	6.67E+01	82.29	19.00	78.16	2.61E+00	1.07E+01
8	0.700	—	1.000	0.850	0.155	1.00E+01	3.33E+01	64.56	22.69	146.46	4.82E+00	3.11E+01
9	1.000	—	2.500	1.750	0.398	2.50E+00	1.67E+00	6.28	24.04	60.41	1.05E+01	2.64E+01
10	2.500	—	7.000	4.750	0.447	2.00E-01	4.44E-02	0.45	14.17	31.69	1.68E+01	3.76E+01
11	7.000		10.000	8.500	0.155	1.00E-02	3.33E-03	0.06	2.27	14.65	4.82E+00	3.11E+01
12	10.000		15.000	12.500	0.176	1.00E-03	2.00E-04	0.01	0.49	2.79	1.53E+00	8.71E+00
Total						7812.7			235.55		49.4	

		Number Concentrations (# cm^{-3})		Mass Concentrations ($\mu\text{g m}^{-3}$)	
Particle Density (g/cm ³)	1.500	CN10	7812.7	PM10	47.9
		CN40	2312.7 ~ CCN0.8	PM2.5	26.2
		CN70	1112.7 ~ CCN0.4	PM1.0	15.7
		CN100	932.7 ~ CCN0.2	PM0.1	0.3
		CN400	32.7		
		CN1000	2.7		

PM##: Mass concentration of particles with diameter < ## μm

CN##: Number concentration of particles (or condensation nuclei) with diameter > ## nm

CCN##: Number concentration of cloud condensation nuclei with water supersaturation ratio = ##%

