

Aerosol type	Wavelength (λ , nm)	Density (ρ_p , g cm ⁻³)	Modal radius (r_0 , μm)	Geometric standard deviation (σ_g)	Refractive index (n)	Single scattering albedo (ω_0)	Specific extinction cross section (σ_e^* , m ² g ⁻¹)	Lidar ratio (S_p , sr)
Sea salt (bin 1) ^a	355	2.160	0.1002, 1.0020 ^c	1.9,2.0 ^c	1.5156–0.0002 <i>i</i>	1.00	6.37	56.9
Sea salt (bin 2) ^a	355	2.160	0.1002, 1.0020 ^c	1.9,2.0 ^c	1.5156–0.0002 <i>i</i>	0.99	0.57	13.5
Sea salt (bin 3) ^a	355	2.160	0.1002, 1.0020 ^c	1.9,2.0 ^c	1.5156–0.0002 <i>i</i>	0.97	0.16	18.8
Dust (bin 1) ^b	355	2.610	0.2900	2.0	1.4800–0.0025 <i>i</i>	0.97	2.09	16.6
Dust (bin 2) ^b	355	2.610	0.2900	2.0	1.4800–0.0025 <i>i</i>	0.94	0.99	19.2
Dust (bin 3) ^b	355	2.610	0.2900	2.0	1.4800–0.0025 <i>i</i>	0.89	0.40	29.5
Organic matter	355	1.769	0.0355	2.0	1.5280–0.0000 <i>i</i>	1.00	5.69	35.5
Black carbon	355	1.000	0.0118	2.0	1.7500–0.4500 <i>i</i>	0.29	16.47	96.9
Sulfate	355	1.769	0.0355	2.0	1.5280–0.0000 <i>i</i>	1.00	5.69	35.5
Sea salt (bin 1) ^a	532	2.160	0.1002, 1.0020 ^c	1.9,2.0 ^c	1.5156–0.0002 <i>i</i>	1.00	3.56	76.0
Sea salt (bin 2) ^a	532	2.160	0.1002, 1.0020 ^c	1.9,2.0 ^c	1.5156–0.0002 <i>i</i>	0.99	0.61	14.5
Sea salt (bin 3) ^a	532	2.160	0.1002, 1.0020 ^c	1.9,2.0 ^c	1.5156–0.0002 <i>i</i>	0.98	0.17	15.7
Dust (bin 1) ^b	532	2.610	0.2900	2.0	1.4800–0.0018 <i>i</i>	0.99	2.61	38.1
Dust (bin 2) ^b	532	2.610	0.2900	2.0	1.4800–0.0018 <i>i</i>	0.96	0.88	9.5
Dust (bin 3) ^b	532	2.610	0.2900	2.0	1.4800–0.0018 <i>i</i>	0.94	0.42	23.0
Organic matter	532	1.769	0.0355	2.0	1.5227–0.0000 <i>i</i>	1.00	3.25	42.3
Black carbon	532	1.000	0.0118	2.0	1.7500–0.4500 <i>i</i>	0.21	9.84	98.7
Sulfate	532	1.769	0.0355	2.0	1.5227–0.0000 <i>i</i>	1.00	3.25	42.3
Sea salt (bin 1) ^a	550	2.160	0.1002, 1.0020 ^c	1.9,2.0 ^c	1.5156–0.0002 <i>i</i>	1.00	3.33	74.0
Sea salt (bin 2) ^a	550	2.160	0.1002, 1.0020 ^c	1.9,2.0 ^c	1.5156–0.0002 <i>i</i>	0.99	0.61	14.6
Sea salt (bin 3) ^a	550	2.160	0.1002, 1.0020 ^c	1.9,2.0 ^c	1.5156–0.0002 <i>i</i>	0.98	0.17	15.4
Dust (bin 1) ^b	550	2.610	0.2900	2.0	1.4800–0.0016 <i>i</i>	0.99	2.63	40.9
Dust (bin 2) ^b	550	2.610	0.2900	2.0	1.4800–0.0016 <i>i</i>	0.97	0.87	9.9
Dust (bin 3) ^b	550	2.610	0.2900	2.0	1.4800–0.0016 <i>i</i>	0.94	0.43	20.4
Organic matter	550	1.769	0.0355	2.0	1.5220–0.0000 <i>i</i>	1.00	3.07	42.5
Black carbon	550	1.000	0.0118	2.0	1.7500–0.4500 <i>i</i>	0.21	9.41	99.8
Sulfate	550	1.769	0.0355	2.0	1.5220–0.0000 <i>i</i>	1.00	3.07	42.5
Sea Salt (bin 1) ^a	910	2.160	0.1002, 1.0020 ^c	1.9,2.0 ^c	1.5156–0.0002 <i>i</i>	1.00	0.89	36.0
Sea salt (bin 2) ^a	910	2.160	0.1002, 1.0020 ^c	1.9,2.0 ^c	1.5156–0.0002 <i>i</i>	1.00	0.63	11.6
Sea salt (bin 3) ^a	910	2.160	0.1002, 1.0020 ^c	1.9,2.0 ^c	1.5156–0.0002 <i>i</i>	0.99	0.17	15.9
Dust (bin 1) ^b	910	2.610	0.2900	2.0	1.4800–0.0006 <i>i</i>	1.00	1.91	74.5
Dust (bin 2) ^b	910	2.610	0.2900	2.0	1.4800–0.0006 <i>i</i>	1.00	1.54	35.2
Dust (bin 3) ^b	910	2.610	0.2900	2.0	1.4800–0.0006 <i>i</i>	0.98	0.41	11.8
Organic matter	910	1.769	0.0355	2.0	1.5114–0.0000 <i>i</i>	1.00	1.12	37.5
Black carbon	910	1.000	0.0118	2.0	1.7500–0.4500 <i>i</i>	0.11	4.78	140.3
Sulfate	910	1.769	0.0355	2.0	1.5114–0.0000 <i>i</i>	1.00	1.12	37.5
Sea salt (bin 1) ^a	1064	2.160	0.1002, 1.0020 ^c	1.9,2.0 ^c	1.5156–0.0002 <i>i</i>	1.00	0.55	21.7
Sea salt (bin 2) ^a	1064	2.160	0.1002, 1.0020 ^c	1.9,2.0 ^c	1.5156–0.0002 <i>i</i>	1.00	0.62	10.0
Sea salt (bin 3) ^a	1064	2.160	0.1002, 1.0020 ^c	1.9,2.0 ^c	1.5156–0.0002 <i>i</i>	0.99	0.18	18.2
Dust (bin 1) ^b	1064	2.610	0.2900	2.0	1.4800–0.0006 <i>i</i>	1.00	1.50	78.6
Dust (bin 2) ^b	1064	2.610	0.2900	2.0	1.4800–0.0006 <i>i</i>	1.00	1.61	48.6
Dust (bin 3) ^b	1064	2.610	0.2900	2.0	1.4800–0.0006 <i>i</i>	0.99	0.44	13.4
Organic matter	1064	1.769	0.0355	2.0	1.5068–0.0000 <i>i</i>	1.00	0.77	34.2
Black carbon	1064	1.000	0.0118	2.0	1.7500–0.4500 <i>i</i>	0.08	3.90	168.3
Sulfate	1064	1.769	0.0355	2.0	1.5068–0.0000 <i>i</i>	1.00	0.77	34.2