Physical and optical properties		Spring		Summer		Autumn		Winter	
		ABL	FA	ABL	FA	ABL	FA	ABL	FA
Optical thickness[a]		0.08 ± 0.03	0.13 ± 0.08	0.07 ± 0.02	0.07 ± 0.05	0.05 ± 0.02	0.05 ± 0.02	0.05 ± 0.02	0.06 ± 0.04
Ångström exponent		0.81 ± 0.36	0.97 ± 0.52	0.84 ± 0.46	1.53 ± 0.17	1.18 ± 0.35	1.05 ± 0.26	1.06 ± 0.40	1.11 ± 0.38
Single scattering albedo[a]		0.93 ± 0.03	0.96 ± 0.01	0.92 ± 0.05	0.92 ± 0.06	0.96 ± 0.03	0.95 ± 0.03	0.96 ± 0.02	0.96 ± 0.03
Asymmetry factor[a]		0.70 ± 0.03	0.68 ± 0.03	0.71 ± 0.04	0.66 ± 0.04	0.66 ± 0.03	0.67 ± 0.03	0.66 ± 0.04	0.66 ± 0.04
Refractive index[a]	real part	1.44 ± 0.05	1.46 ± 0.04	1.41 ± 0.03	1.41 ± 0.02	1.42 ± 0.04	1.41 ± 0.03	1.42 ± 0.05	1.42 ± 0.03
	imaginary part	0.006 ± 0.004	0.003 ± 0.002	0.006 ± 0.004	0.008 ± 0.006	0.003 ± 0.002	0.003 ± 0.002	0.002 ± 0.002	0.002 ± 0.002
Mode radius (μm)	fine	0.14 ± 0.02		0.14 ± 0.04		0.12 ± 0.03		0.11 ± 0.02	
	coarse	2.83 ± 1.45		4.59 ± 1.37		4.70 ± 2.00		5.89 ± 2.30	
Mode width	fine	0.46 ± 0.13		0.59 ± 0.09		0.53 ± 0.13		0.60 ± 0.13	
	coarse	0.92 ± 0.10		0.98 ± 0.02		0.98 ± 0.02		0.97 ± 0.06	
Volume ratio of nonspherical particles in the coarse mode		0.96 ± 0.06	0.85 ± 0.22	0.79 ± 0.20	0.68 ± 0.21	0.95 ± 0.08	0.91 ± 0.09	0.97 ± 0.07	0.86 ± 0.14
Lidar ratio[a]		69 ± 10	58 ± 7	68 ± 23	65 ± 13	57 ± 10	63 ± 10	56 ± 9	56 ± 10