

	Hangzhou	Xiaoshan	Fuyang	LinAn	Tonglu	Jiande	ChunAn
Site type	Urban	Suburban	Suburban	Suburban	Suburban	Suburban	Rural
Longitude ($^{\circ}$ E)	120.19	120.25	119.95	119.72	119.64	119.27	119.05
Latitude ($^{\circ}$ N)	30.26	30.16	30.07	30.23	29.80	29.49	29.61
Altitude (m)	41.9	14.0	17.0	139	46.1	88.9	171.4
$N_{\text{day}}^{\text{a}}$	485	180	217	562	498	480	439
$N_{\text{inst.}}^{\text{b}}$	2052	752	906	2410	2255	1952	1731
AOD _{440 nm} ^c	0.76 ± 0.42	0.76 ± 0.43	0.76 ± 0.45	0.73 ± 0.44	0.71 ± 0.41	0.73 ± 0.40	0.68 ± 0.38
AOD _{fine(440 nm)} ^c	0.68 ± 0.42	0.69 ± 0.41	0.69 ± 0.44	0.66 ± 0.43	0.64 ± 0.41	0.66 ± 0.40	0.61 ± 0.38
AOD _{coarse(440 nm)} ^c	0.08 ± 0.06	0.07 ± 0.06	0.07 ± 0.06	0.07 ± 0.07	0.07 ± 0.06	0.07 ± 0.07	0.06 ± 0.05
EAE _{440–870 nm} ^d	1.29 ± 0.26	1.37 ± 0.24	1.32 ± 0.24	1.29 ± 0.27	1.30 ± 0.26	1.32 ± 0.28	1.22 ± 0.25
SSA _{440 nm} ^c	0.91 ± 0.06	0.93 ± 0.04	0.94 ± 0.04	0.93 ± 0.05	0.92 ± 0.04	0.92 ± 0.05	0.94 ± 0.03
SSA _{670 nm} ^e	0.92 ± 0.06	0.91 ± 0.06	0.93 ± 0.06	0.92 ± 0.05	0.93 ± 0.05	0.92 ± 0.07	0.94 ± 0.03
SSA _{870 nm} ^f	0.90 ± 0.07	0.90 ± 0.07	0.91 ± 0.08	0.91 ± 0.06	0.91 ± 0.06	0.90 ± 0.08	0.93 ± 0.04
SSA _{1020 nm} ^g	0.89 ± 0.08	0.89 ± 0.08	0.89 ± 0.09	0.90 ± 0.07	0.90 ± 0.07	0.90 ± 0.09	0.92 ± 0.05
AAOD _{440 nm} ^c	0.06 ± 0.05	0.05 ± 0.04	0.04 ± 0.04	0.05 ± 0.04	0.05 ± 0.04	0.06 ± 0.04	0.04 ± 0.03
AAE _{440–870 nm} ^d	1.13 ± 0.46	0.88 ± 0.42	0.85 ± 0.43	0.98 ± 0.35	1.11 ± 0.49	1.16 ± 0.44	0.93 ± 0.31
$R_{\text{eff}}^{\text{t}} (\mu\text{m})^{\text{c}}$	0.30 ± 0.10	0.29 ± 0.09	0.30 ± 0.09	0.29 ± 0.10	0.29 ± 0.10	0.29 ± 0.09	0.30 ± 0.10
$R_{\text{eff fine}} (\mu\text{m})^{\text{c}}$	0.16 ± 0.04	0.16 ± 0.03	0.17 ± 0.04	0.16 ± 0.04	0.16 ± 0.04	0.17 ± 0.04	0.17 ± 0.04
$R_{\text{eff coarse}} (\mu\text{m})^{\text{c}}$	2.21 ± 0.40	2.26 ± 0.35	2.30 ± 0.39	2.24 ± 0.44	2.19 ± 0.41	2.16 ± 0.39	2.27 ± 0.42
Volume ($\mu\text{m}^3 \mu\text{m}^{-2}$) ^c	0.19 ± 0.09	0.19 ± 0.09	0.19 ± 0.09	0.18 ± 0.09	0.17 ± 0.09	0.18 ± 0.09	0.17 ± 0.07
Volume _{fine} ($\mu\text{m}^3 \mu\text{m}^{-2}$) ^c	0.10 ± 0.06	0.11 ± 0.06	0.11 ± 0.07	0.10 ± 0.06	0.10 ± 0.06	0.10 ± 0.06	0.10 ± 0.06
Volume _{coarse} ($\mu\text{m}^3 \mu\text{m}^{-2}$) ^c	0.09 ± 0.06	0.08 ± 0.05	0.08 ± 0.06	0.08 ± 0.05	0.08 ± 0.06	0.08 ± 0.07	0.07 ± 0.05
DARF-BOA (W m $^{-2}$) ^c	-93 ± 44	-84 ± 41	-80 ± 40	-81 ± 39	-79 ± 39	-82 ± 40	-74 ± 34
DARF-TOA (W m 2) ^c	-35 ± 20	-36 ± 21	-37 ± 21	-36 ± 21	-35 ± 20	-35 ± 21	-40 ± 19

^a Number of available observation days. ^b Number of instantaneous observations. ^c Optical parameters at a wavelength of 440 nm. ^d Angström exponents between 440 and 870 nm. ^e Optical parameters at a wavelength of 670 nm. ^f Optical parameters at a wavelength of 870 nm. ^g Optical parameters at a wavelength of 1020 nm.