

	Mean D_AOD \pm SD (climatological)	D_AOD max/ percentile 95 % (climatological)	Dust CoM \pm SD (km a.g.l.) (conditional)	Dust top height \pm SD (km a.g.l.) (conditional)	No. of dust profiles in no. of cloud-free profiles
Taklimakan and Gobi					
DJF	0.078 \pm 0.135	1.802/0.327	2.31 \pm 1.39	3.47 \pm 2.01	0.74
MAM	0.193 \pm 0.308	2.729/0.819	3.06 \pm 1.43	5.01 \pm 2.17	0.78
JJA	0.113 \pm 0.232	2.504/0.529	3.19 \pm 1.38	4.94 \pm 1.8	0.68
SON	0.095 \pm 0.18	2.488/0.401	2.58 \pm 1.27	3.92 \pm 1.77	0.73
Tibetan Plateau					
DJF	0.012 \pm 0.037	0.758/0.062	6.01 \pm 1.26	6.96 \pm 1.42	0.31
MAM	0.028 \pm 0.055	0.731/0.127	6.2 \pm 1.21	7.76 \pm 1.64	0.52
JJA	0.013 \pm 0.033	0.676/0.068	5.99 \pm 1.05	7.13 \pm 1.3	0.39
SON	0.006 \pm 0.023	0.631/0.032	6.08 \pm 1.37	6.87 \pm 1.45	0.24
SE China					
DJF	0.062 \pm 0.104	1.769/0.254	1.73 \pm 1.29	3.03 \pm 1.84	0.79
MAM	0.108 \pm 0.171	2.39/0.404	2.38 \pm 1.47	4.35 \pm 2.26	0.85
JJA	0.032 \pm 0.064	1.06/0.145	1.9 \pm 1.56	3.09 \pm 2.13	0.69
SON	0.045 \pm 0.081	1.329/0.19	1.6 \pm 1.27	2.74 \pm 1.71	0.72
Indian Peninsula					
DJF	0.043 \pm 0.065	1.736/0.147	1.13 \pm 0.9	2.13 \pm 1.28	0.84
MAM	0.171 \pm 0.188	1.944/0.521	1.79 \pm 0.99	3.63 \pm 1.44	0.93
JJA	0.199 \pm 0.167	2.071/0.751	2.05 \pm 1.22	3.72 \pm 1.55	0.86
SON	0.075 \pm 0.106	1.459/0.267	1.29 \pm 0.87	2.54 \pm 1.25	0.83
N Pacific					
DJF	0.026 \pm 0.059	1.169/0.113	1.55 \pm 1.54	2.49 \pm 1.97	0.67
MAM	0.046 \pm 0.085	1.596/0.196	2.29 \pm 1.86	3.96 \pm 2.7	0.79
JJA	0.007 \pm 0.02	0.613/0.035	1.55 \pm 1.95	2.29 \pm 2.38	0.45
SON	0.012 \pm 0.032	0.929/0.057	1.26 \pm 1.49	2.06 \pm 1.89	0.56
mainland Southeast Asia/Indonesia					
DJF	0.005 \pm 0.016	0.562/0.022	0.84 \pm 0.99	1.28 \pm 1.11	0.39
MAM	0.005 \pm 0.012	0.269/0.024	0.98 \pm 1.16	1.47 \pm 1.29	0.47
JJA	0.003 \pm 0.01	0.383/0.018	1.19 \pm 1.96	1.6 \pm 2.07	0.33
SON	0.003 \pm 0.012	0.712/0.016	1.02 \pm 1.57	1.45 \pm 1.71	0.38