

Table S1. Performance metrics for AOD and PM₁₀ hindcasts from 7 March 12:00 to 19 March 11:00 at six AERONET sites and nearby NAMIS PM₁₀ stations in SMA.

Configuration	AOD (N = 219)								PM ₁₀ (N =1664)							
	IOA	MFE	MFB	R	RMSE	MB	MNE	MNB	IOA	MFE	MFB	R	RMSE	MB	MNE	MNB
noSTK	0.68	99.21	-98.09	0.69	0.37	-0.29	63.77	-62.49	0.54	63.74	-37.91	0.28	31.26	-12.67	56.78	-13.71
H+0 to H+23	0.73	60.65	-57.90	0.74	0.30	-0.22	43.95	-40.68	0.59	50.49	3.45	0.36	31.68	5.36	69.27	34.03
H+24 to H+47	0.69	81.76	-76.44	0.68	0.34	-0.25	55.16	-48.89	0.57	53.28	-14.36	0.31	30.32	-3.50	58.50	9.36