



Supplement of

Statistical aerosol properties associated with fire events from 2002 to 2019 and a case analysis in 2019 over Australia

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Table S1 Monthly mean of fire count, FRP, and AOD and the Pearson correlation coefficient among fire count, FRP, and AOD during 2001-2020.

Month	Fire count	FRP	AOD	Precipitation	$R_{\text{FRP-AOD}}$	$R_{\text{Fire count-AOD}}$
Jan	10442	104.622	0.057	2.554	0.38	0.85
Feb	4808	97.592	0.043	2.405	0.14	0.36
Mar	5123	62.303	0.033	1.621	0.39	-0.03
Apr	13542	50.969	0.031	0.690	-0.10	-0.08
May	16742	46.385	0.026	0.686	0.06	-0.07
Jun	12184	43.145	0.026	0.784	0.22	-0.30
Jul	12848	48.323	0.026	0.658	0.53	0.29
Aug	18640	61.292	0.034	0.504	0.21	0.18
Sep	29297	74.983	0.038	0.478	0.28	0.47
Oct	39901	91.433	0.048	0.463	0.24	0.63
Nov	34809	88.467	0.056	0.822	0.42	0.68
Dec	20016	85.316	0.063	1.621	0.46	0.83