atmosphere

Supplementary Materials: Size-Segregated Particulate Matter down to $PM_{0.1}$ and Carbon Content during the Rainy and Dry Seasons in Sumatra Island, Indonesia

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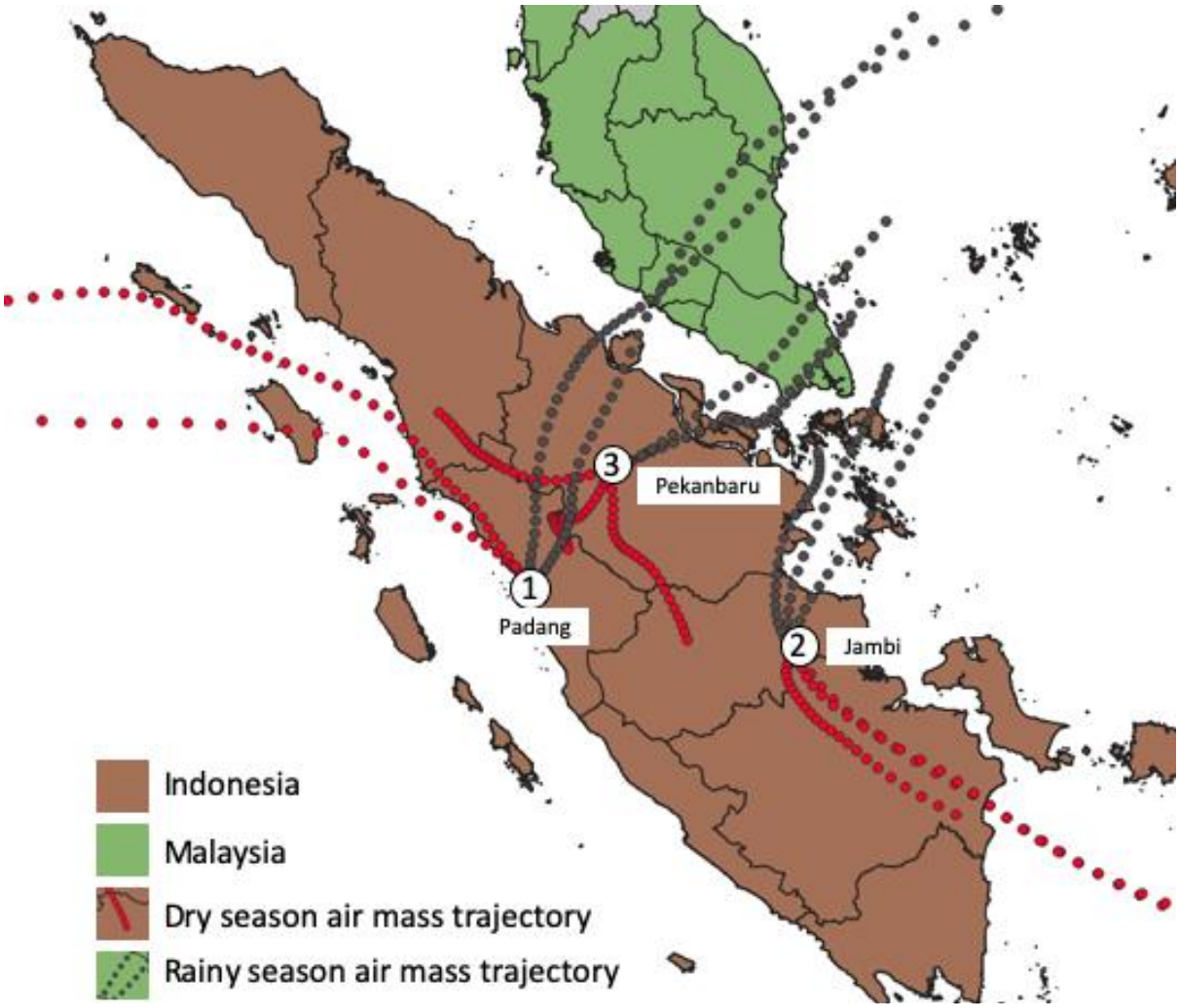

Figure S1. Air mass trajectory during rainy and dry season in all sampling site, in Sumatra Island.

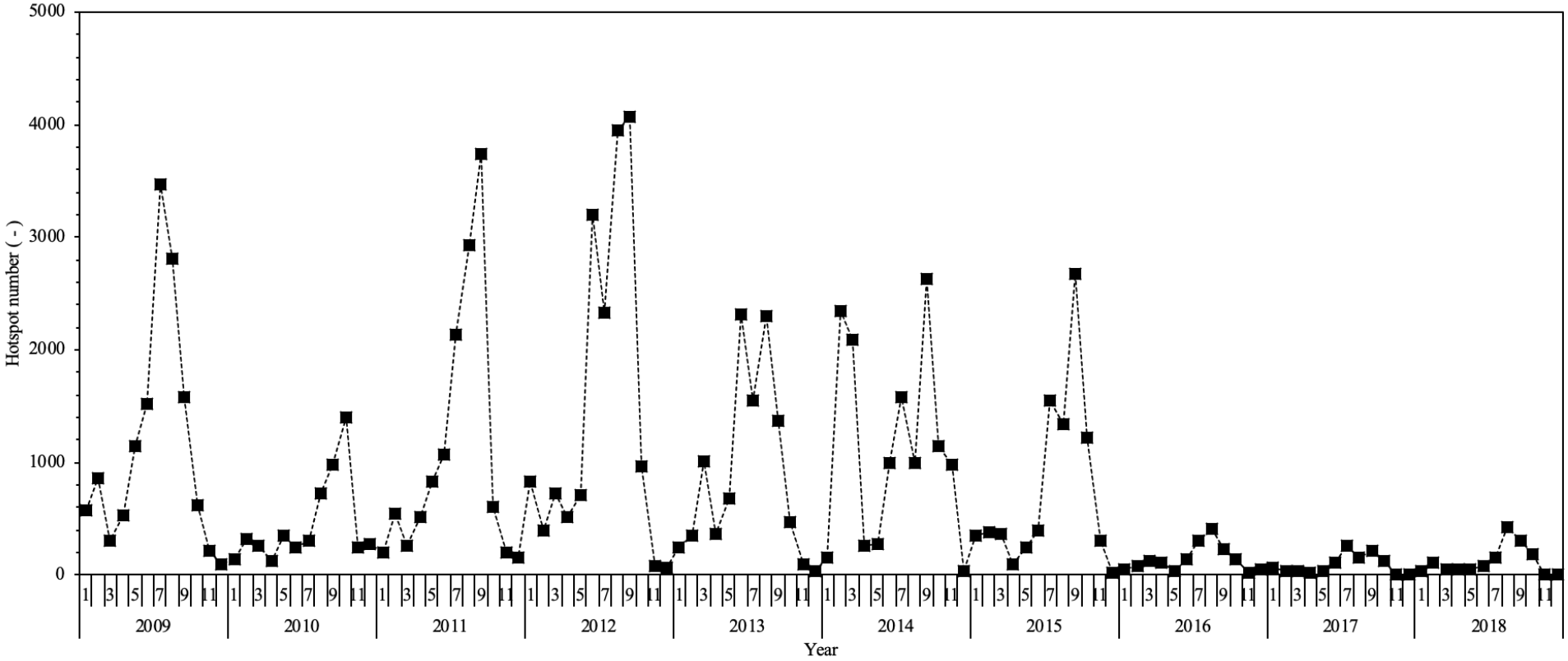

Figure S2. Numbers of yearly hotspots in Sumatra Island (2009-2018), Indonesia. (Sources: ASMC, 2019)

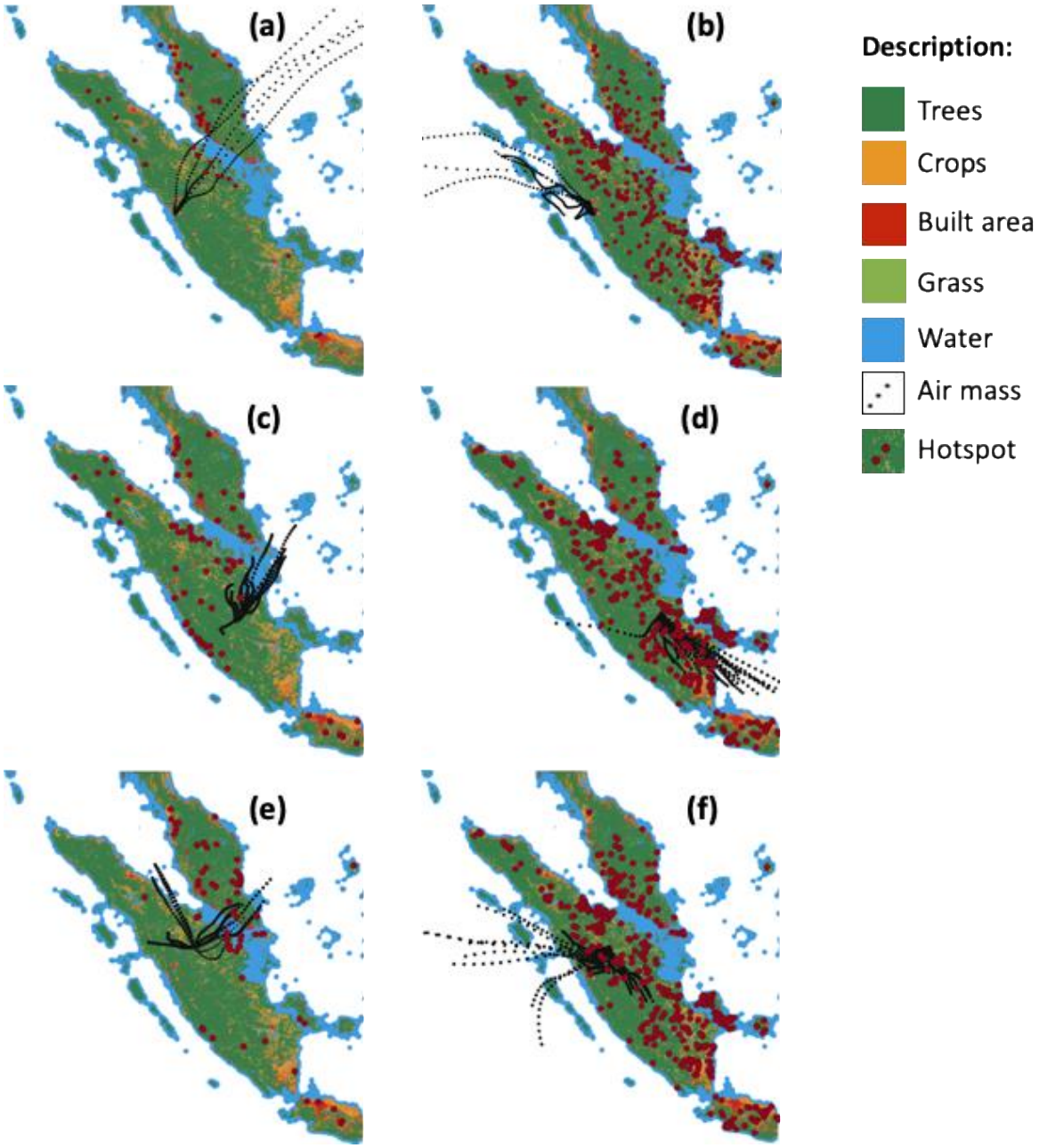

Figure S3. Overlap land cover of Sumatera Island and air mass trajectory during dry and rainy season in all sampling location (**a**) Padang (rainy), (**b**) Padang (dry), (**c**) Jambi (rainy), (**d**) Jambi (dry), (**e**) Pekanbaru (rainy) and (**f**) Pekanbaru (dry).

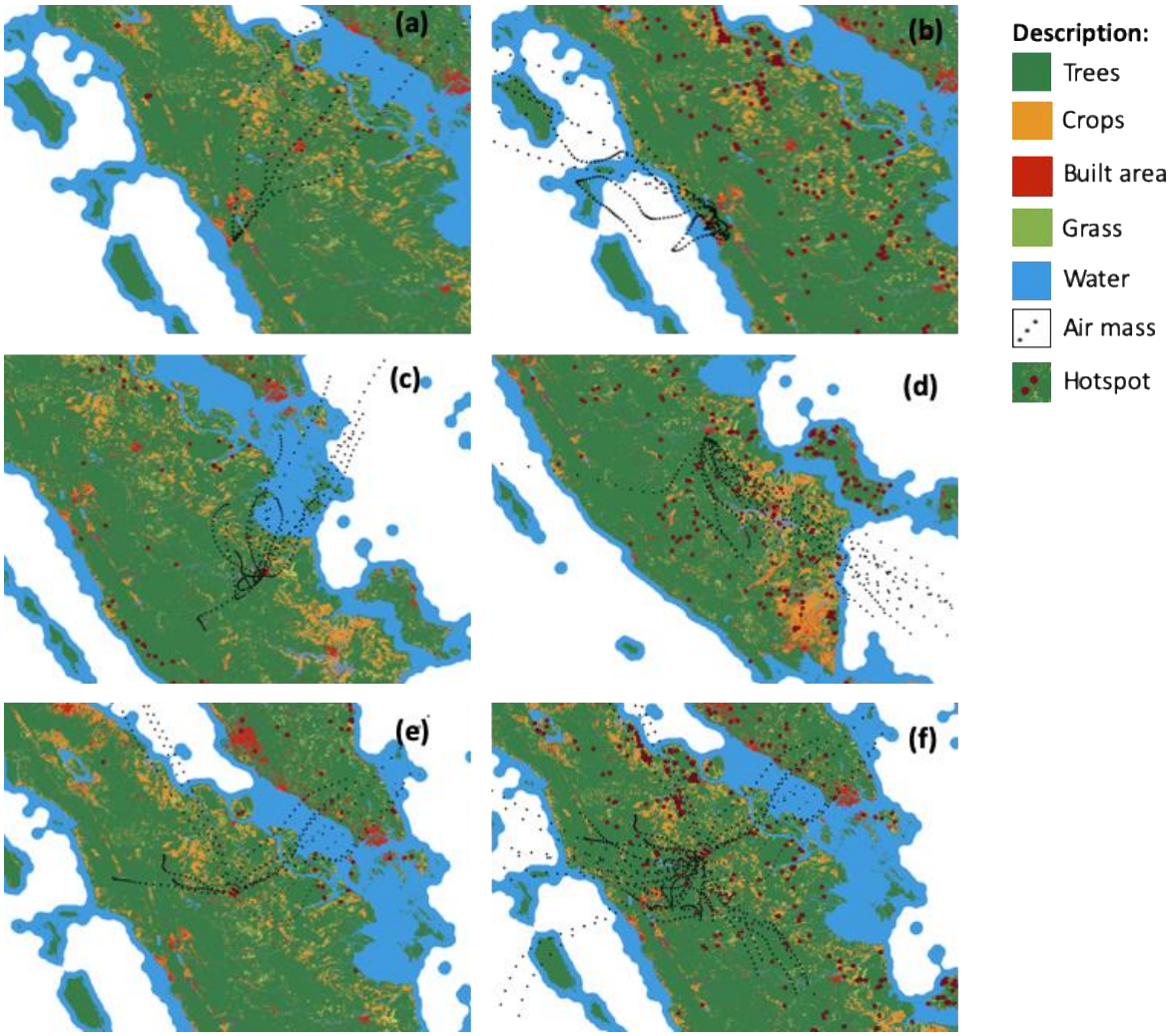

Figure S4. Detail overlap land cover of Sumatera Island and air mass trajectory during dry and rainy season in all sampling location (**a**) Padang (rainy), (**b**) Padang (dry), (**c**) Jambi (rainy), (**d**) Jambi (dry), (**e**) Pekanbaru (rainy) and (**f**) Pekanbaru (dry).

Table S1. Summary of the independent sample t-test comparing seasonal different between rainy and dry season in Sumatra Island, Indonesia.

PMs	Padang	Jambi	Pekanbaru
PM0.1	0.41	0.329	0.002
PM1	0.37	0.101	0.036
PM2.5	0.39	0.050	0.015
PM10	0.34	0.042	0.016
TSP	0.49	0.030	0.005

Credits (Attribution) for Figure S3 and S4:

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