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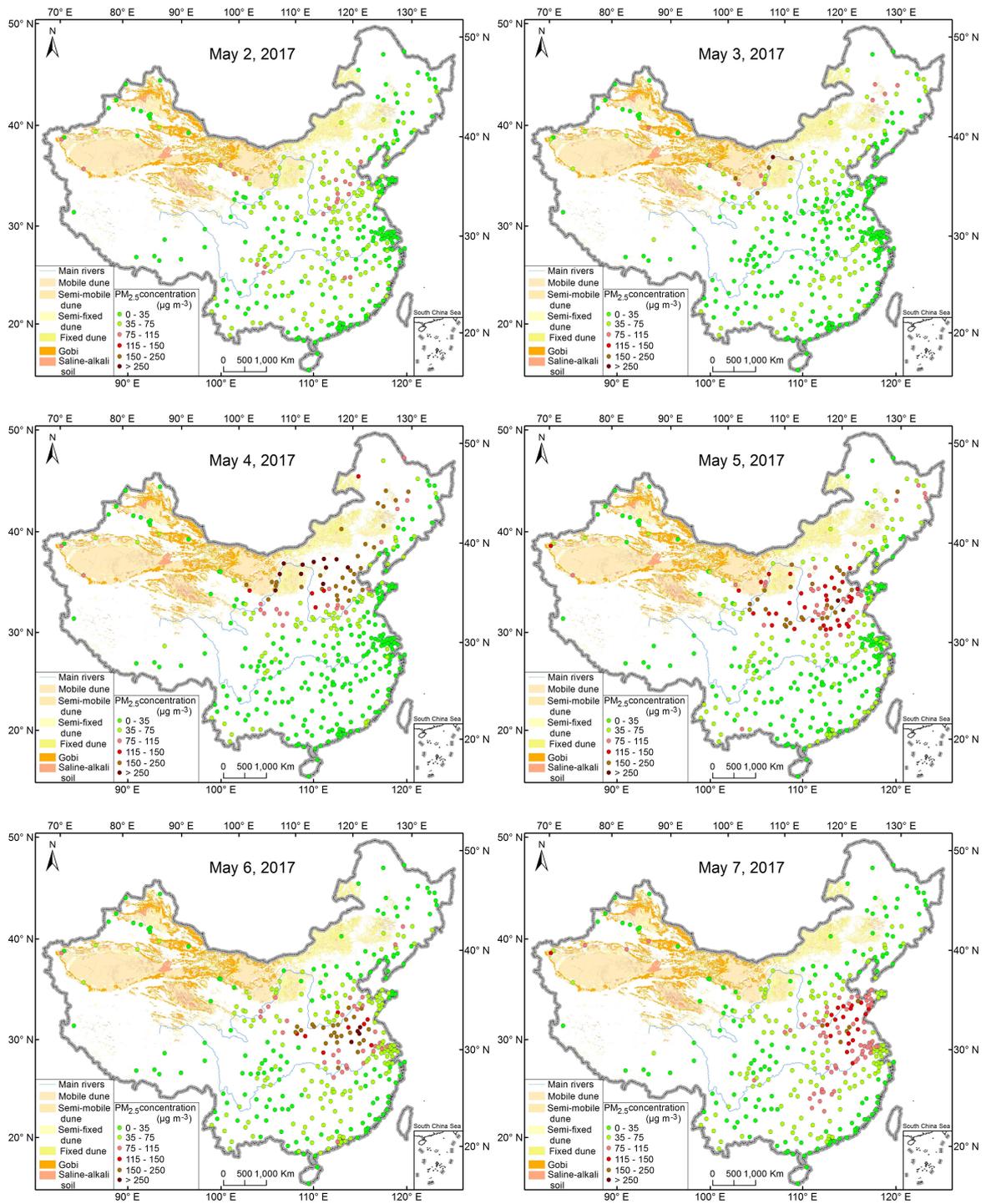
*Supplement of*

## **East Asian dust storm in May 2017: observations, modelling, and its influence on the Asia-Pacific region**

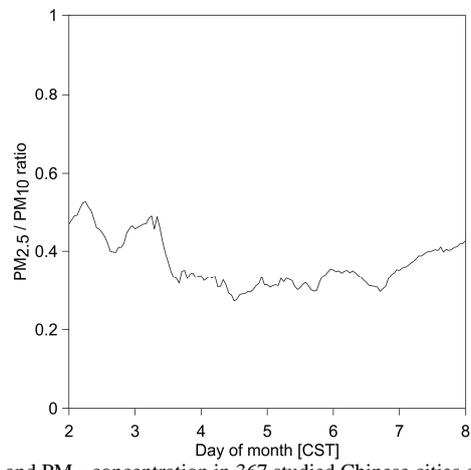
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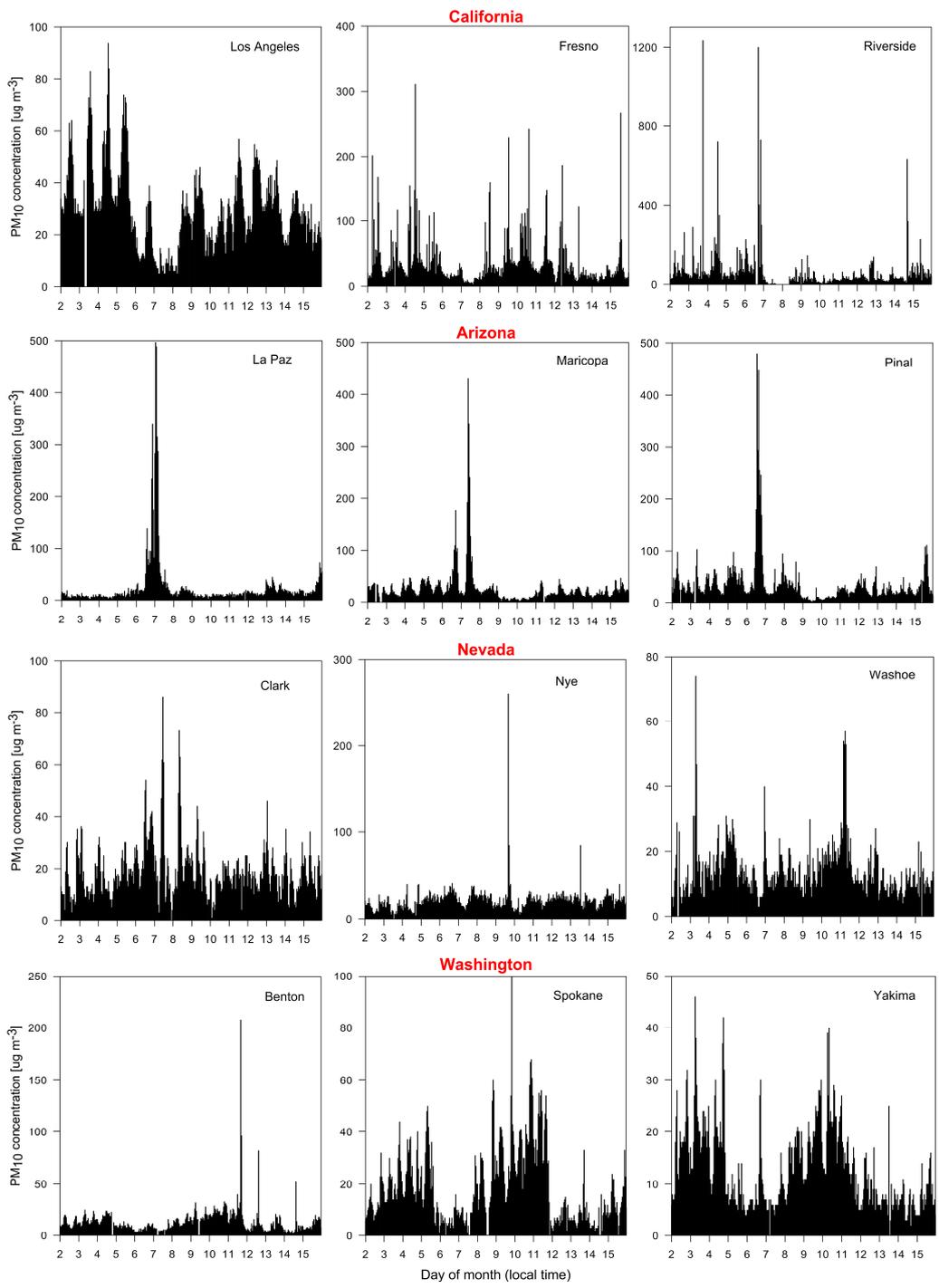
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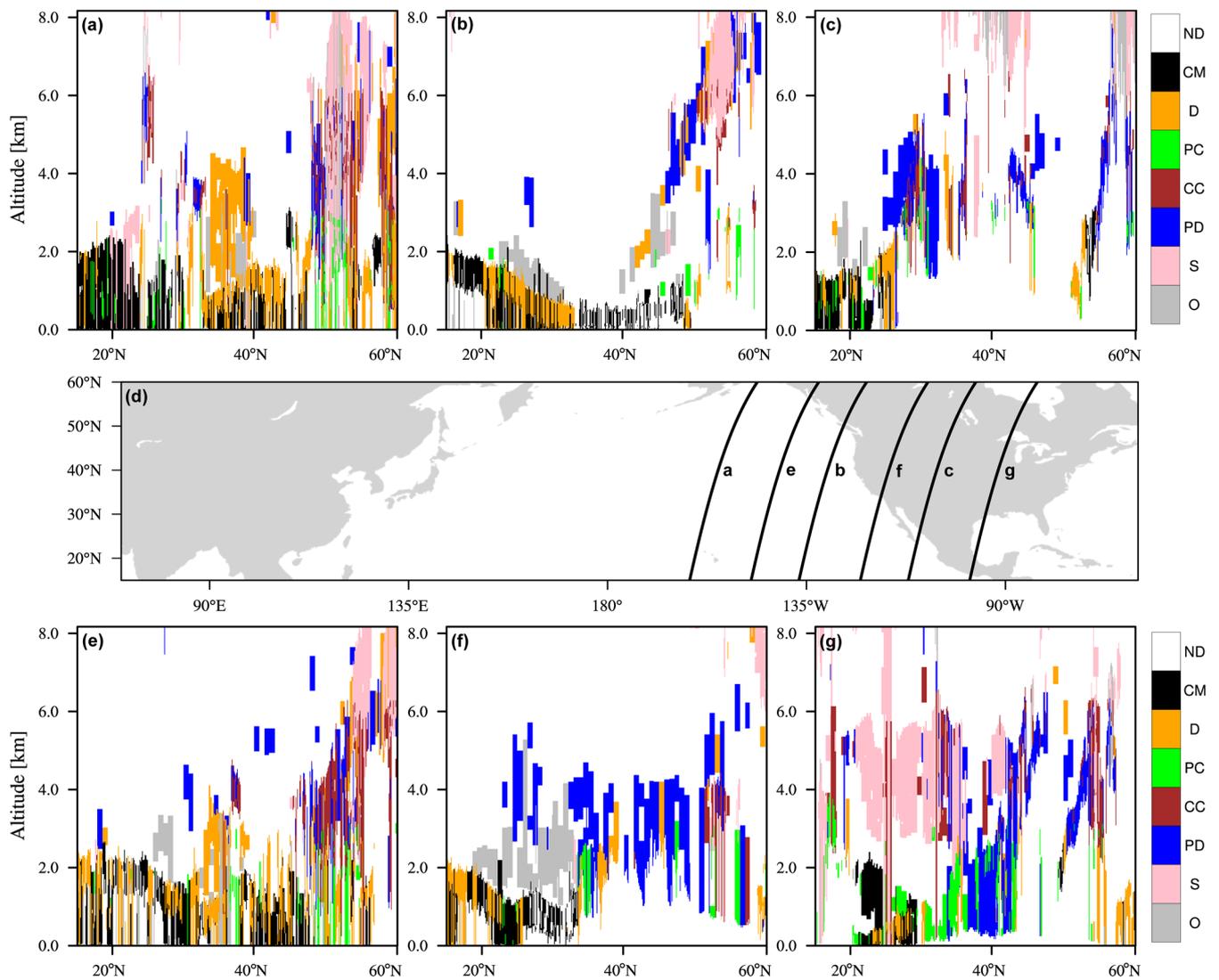
5 **Figure S1.** Observations of PM<sub>2.5</sub> concentrations across China during 2-7 May, 2017.



**Figure S2.** Changes of ratio between hourly PM<sub>2.5</sub> and PM<sub>10</sub> concentration in 367 studied Chinese cities during 2-7 May, 2017.



**Figure S3.** Hourly PM<sub>10</sub> concentrations change in western coast of United States during 2-15 May, 2017.



**Figure S4.** Vertical profiles of atmospheric features derived from CALIPSO satellite VFM data on 9 May (Fig. S4a, S4b and S4c) and 10 May (Fig. S4e, S4f, and S4g), 2017. (ND=Not determined, CM=Clean marine, D=Dust, PC=Polluted continental, CC=Clean continental, PD=Polluted dust, S=Smoke, O=Other). Each Satellite trajectories of vertical profiles were presented in Fig. S4d.

5