



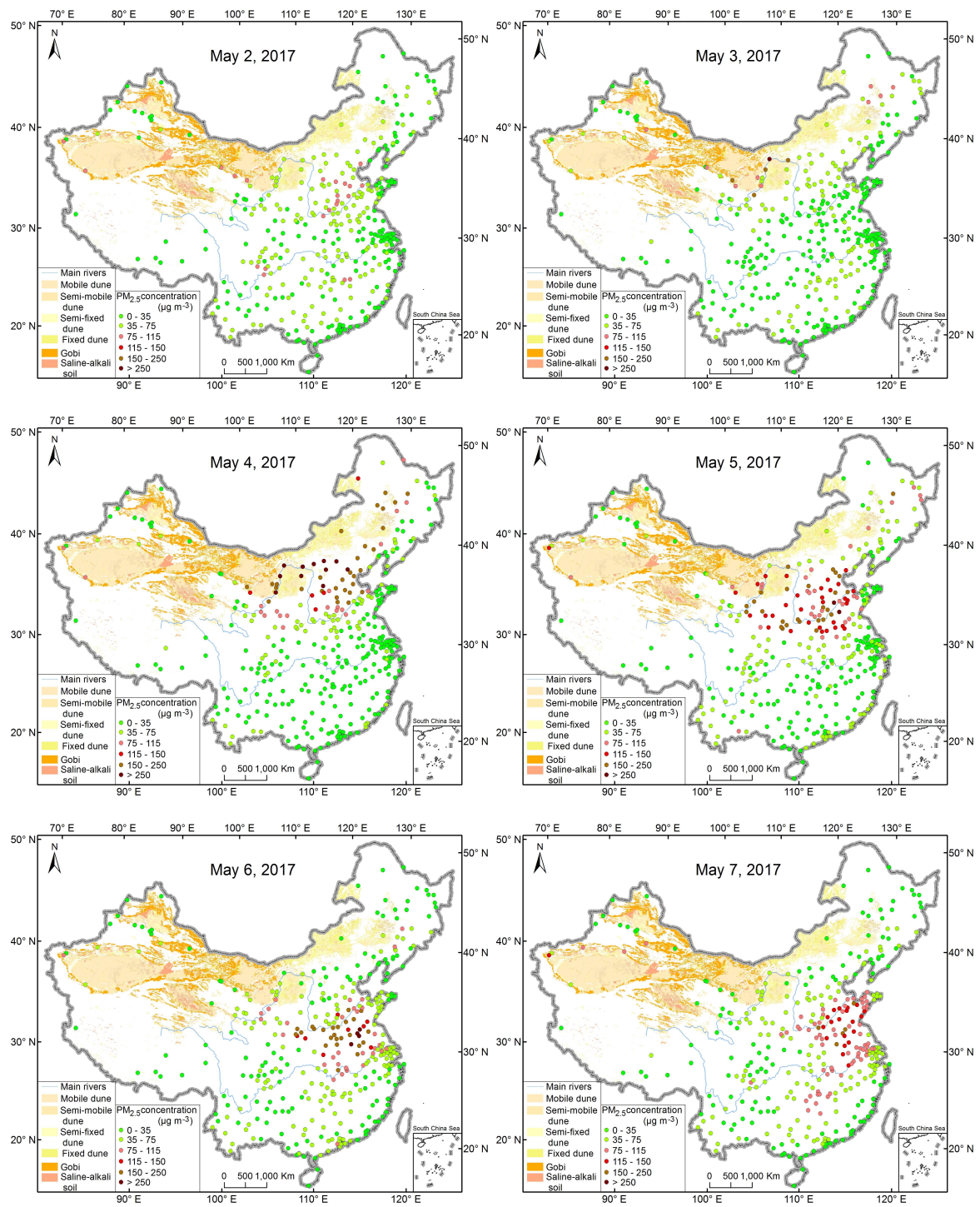
Supplement of

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

Xiao-Xiao Zhang et al.

Correspondence to: Lian-You Liu (lyliu@bnu.edu.cn) and Zi-Fa Wang (zifawang@mail.iap.ac.cn)

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5 **Figure S1.** Observations of $PM_{2.5}$ concentrations across China during 2-7 May, 2017.

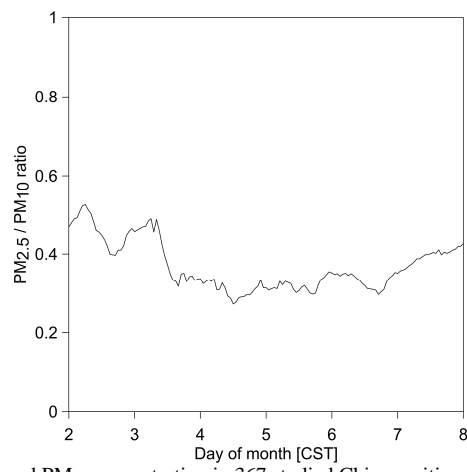


Figure S2. Changes of ratio between hourly PM_{2.5} and PM₁₀ concentration in 367 studied Chinese cities during 2-7 May, 2017.

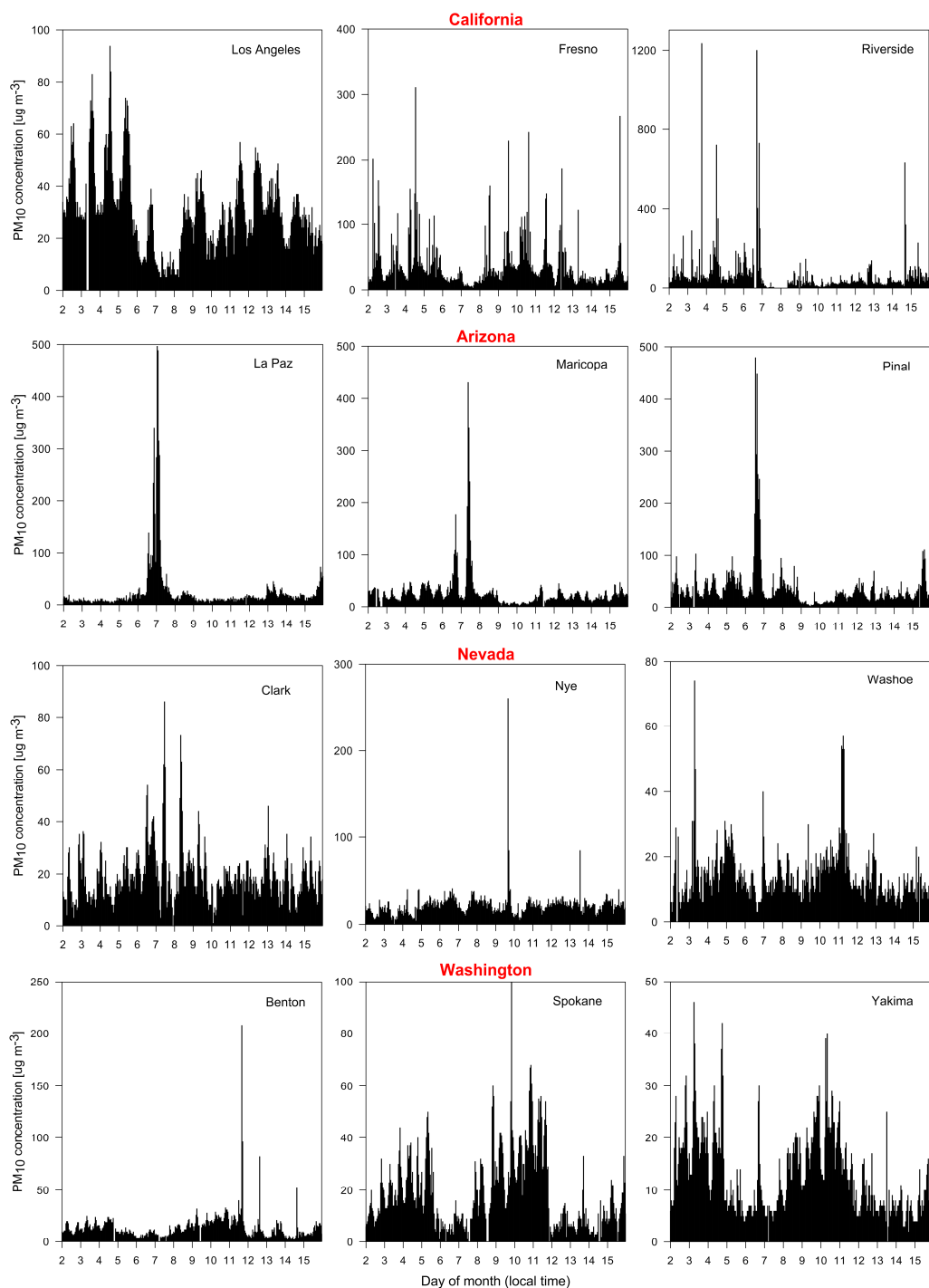


Figure S3. Hourly PM₁₀ concentrations change in western coast of United States during 2-15 May, 2017.

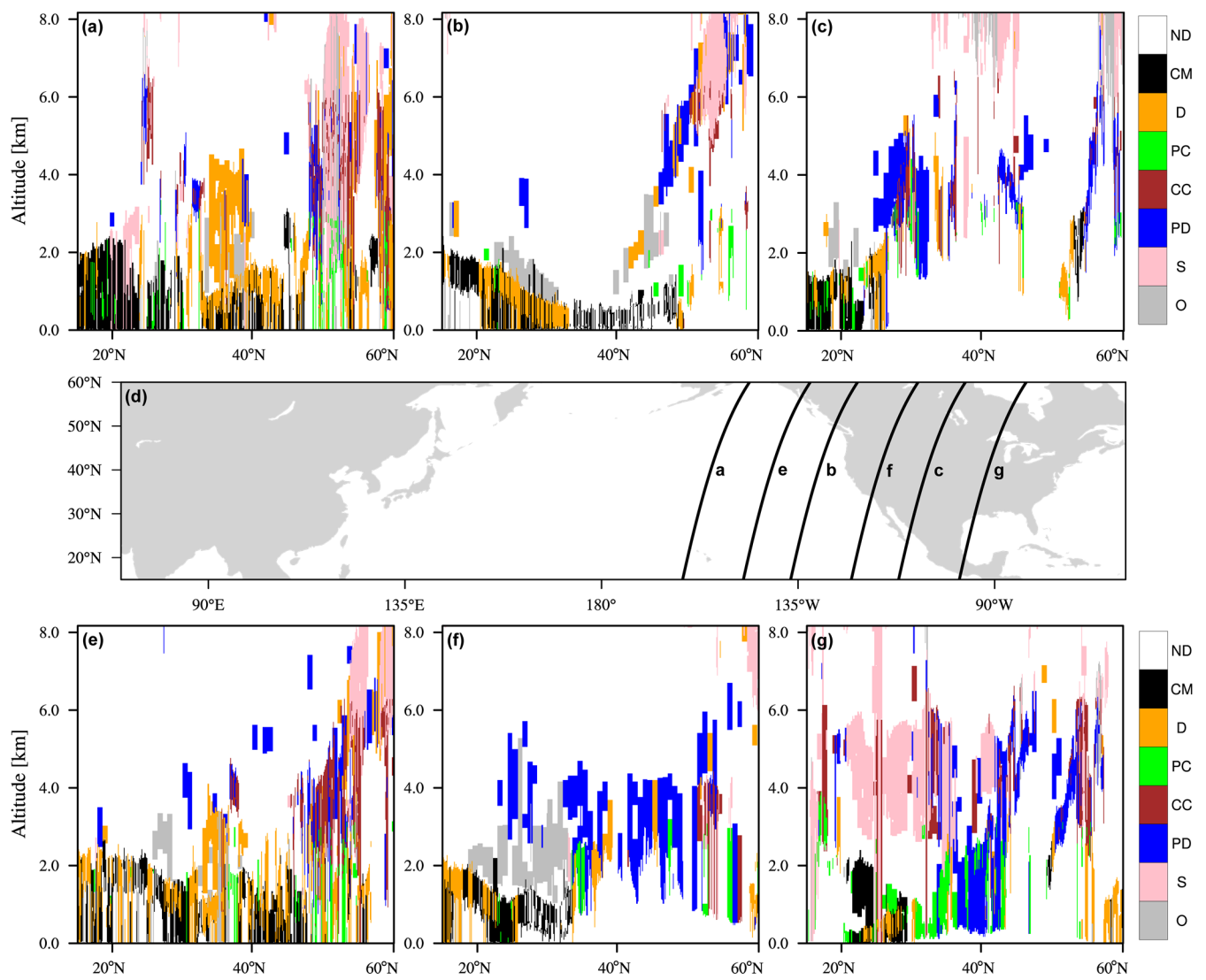


Figure S4. Vertical profiles of atmospheric features derived from CALIPSO satellite VFM data on 9 May (Fig. S4a, S4b and S4c) and 10 May (Fig. S4e, S4f, and S4g), 2017. (ND=Not determined, CM=Clean marine, D=Dust, PC=Polluted continental, CC=Clean continental, PD=Polluted dust, S=Smoke, O=Other). Each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

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