Measurement Report: Determination of aerosol vertical features on different time-scales over East Asia based on CATS aerosol products

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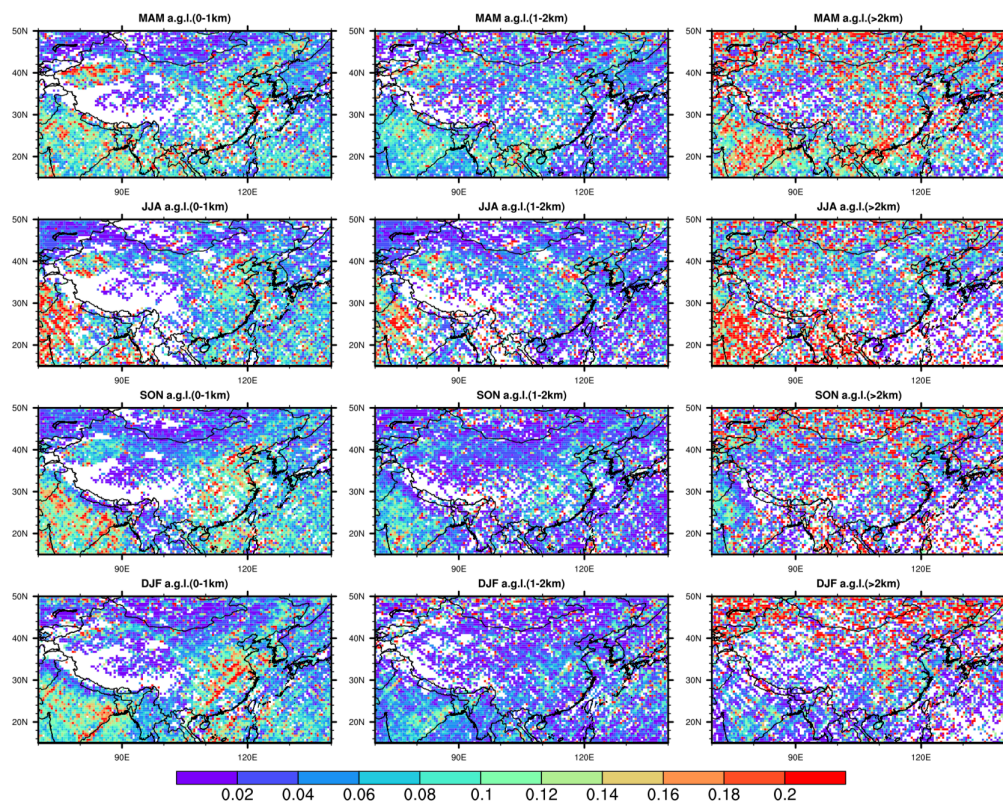

15 **Figure S1. Spatial distributions of AOTs from CATS at 1064 nm during 2015-2017 by season below 1 km, between 1 and 2 km, and above 2 km a.g.l..**

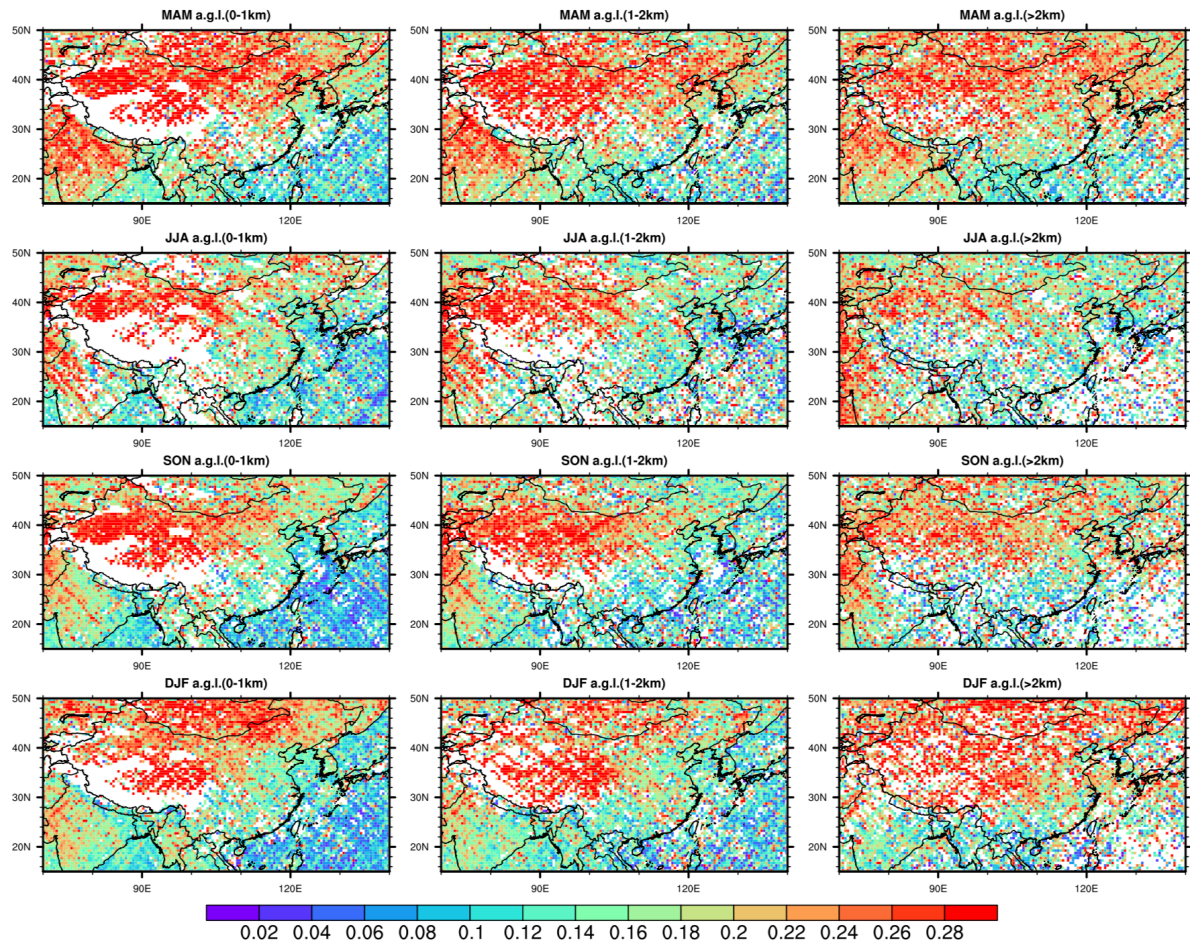



Figure S2. Same as Fig. S1 but for total depolarization ratios.

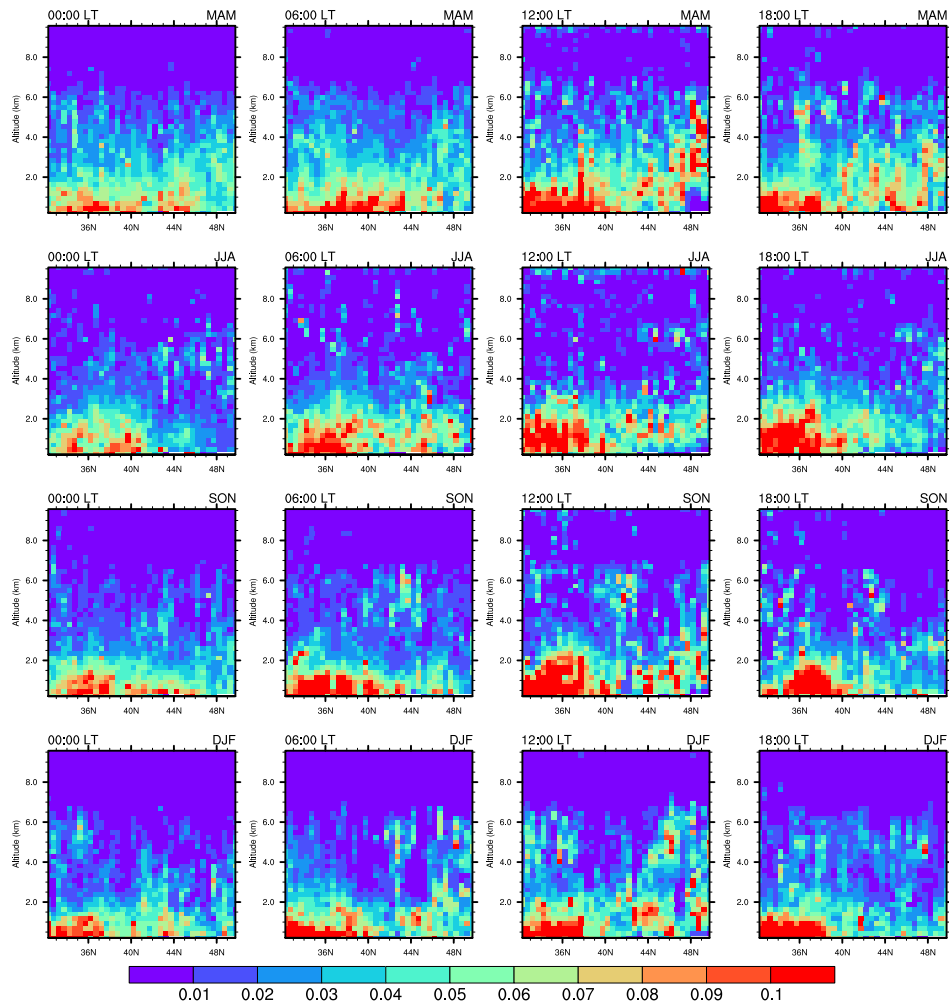



Figure S3. 6 h (00:00, 06:00, 12:00, 18:00 LT) vertical structure of 1064 nm aerosol extinction coefficients (km⁻¹) observed from CATS by season over North China in relation to zonal mean regional surface altitude.

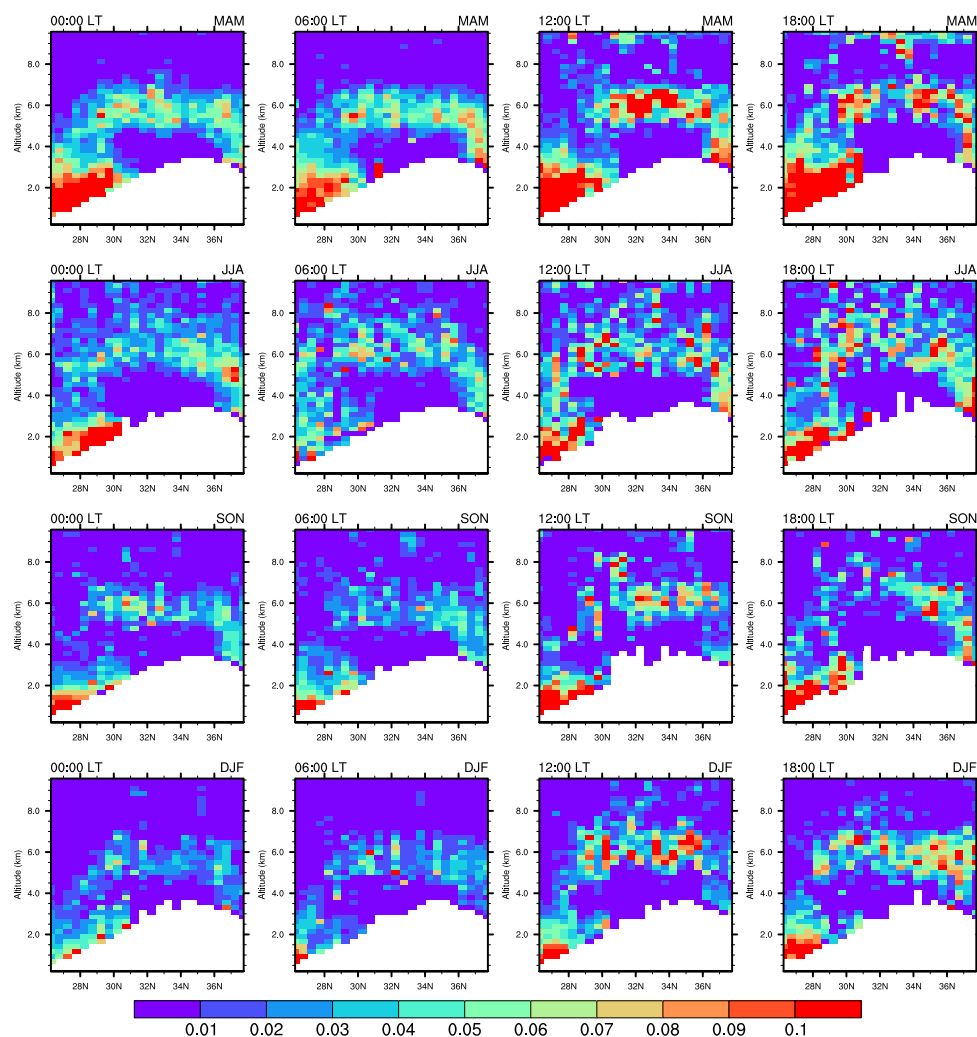
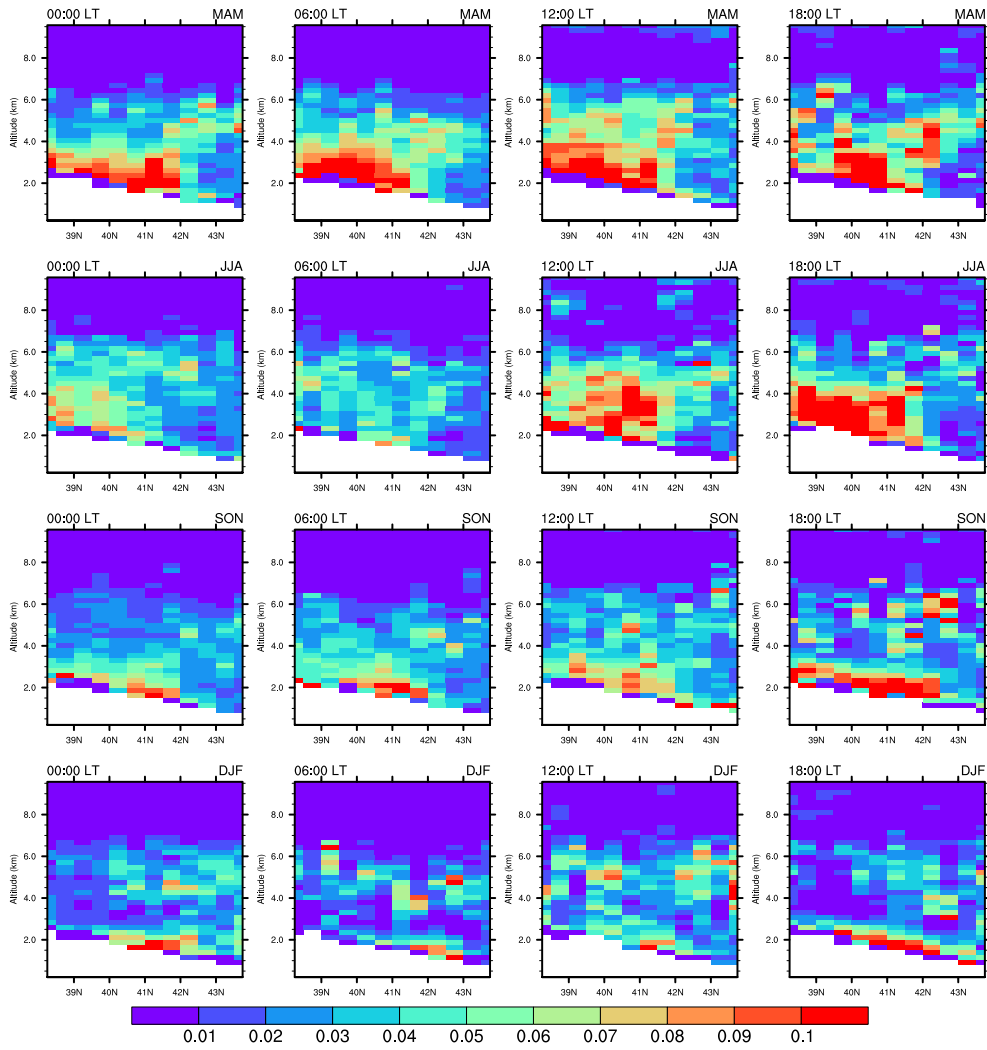



Figure S4. Same as Fig. S3 but for Tibetan Plateau.

25 **Figure S5. Same as Fig. S3 but for Tarim Basin.**

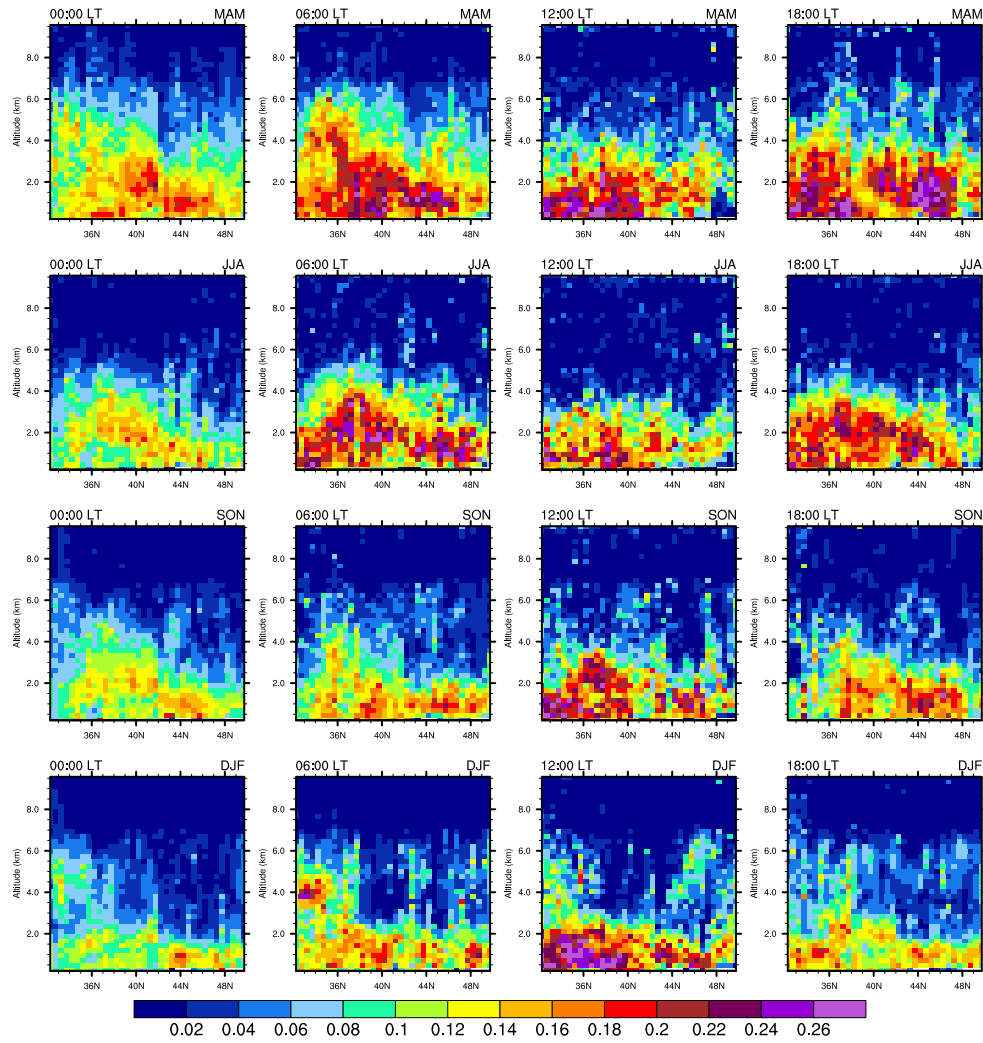
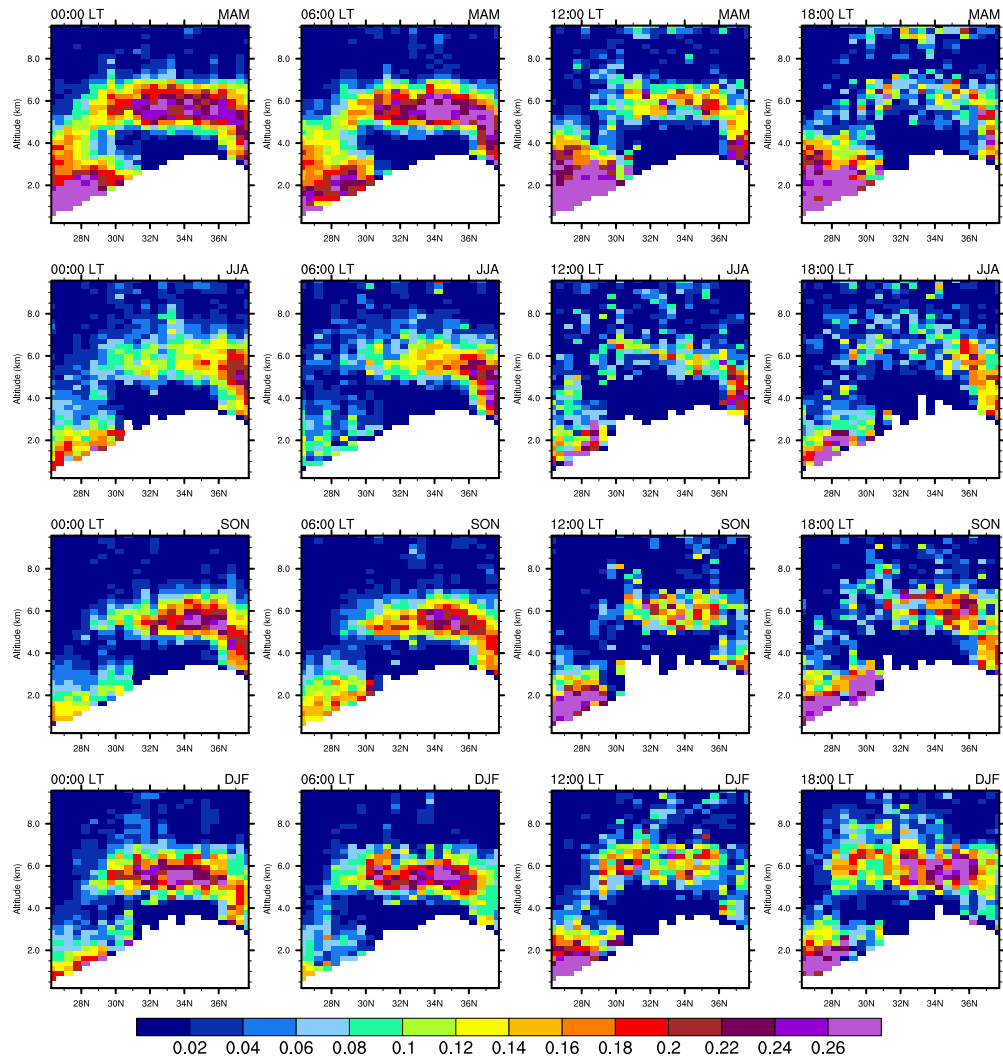



Figure S6. 6 h (00:00, 06:00, 12:00, 18:00 LT) vertical structure of total depolarization ratios observed from CATS by season over North China relation to zonal mean regional surface altitude.

30   **Figure S7. Same as Fig. S6 but for Tibetan Plateau.**

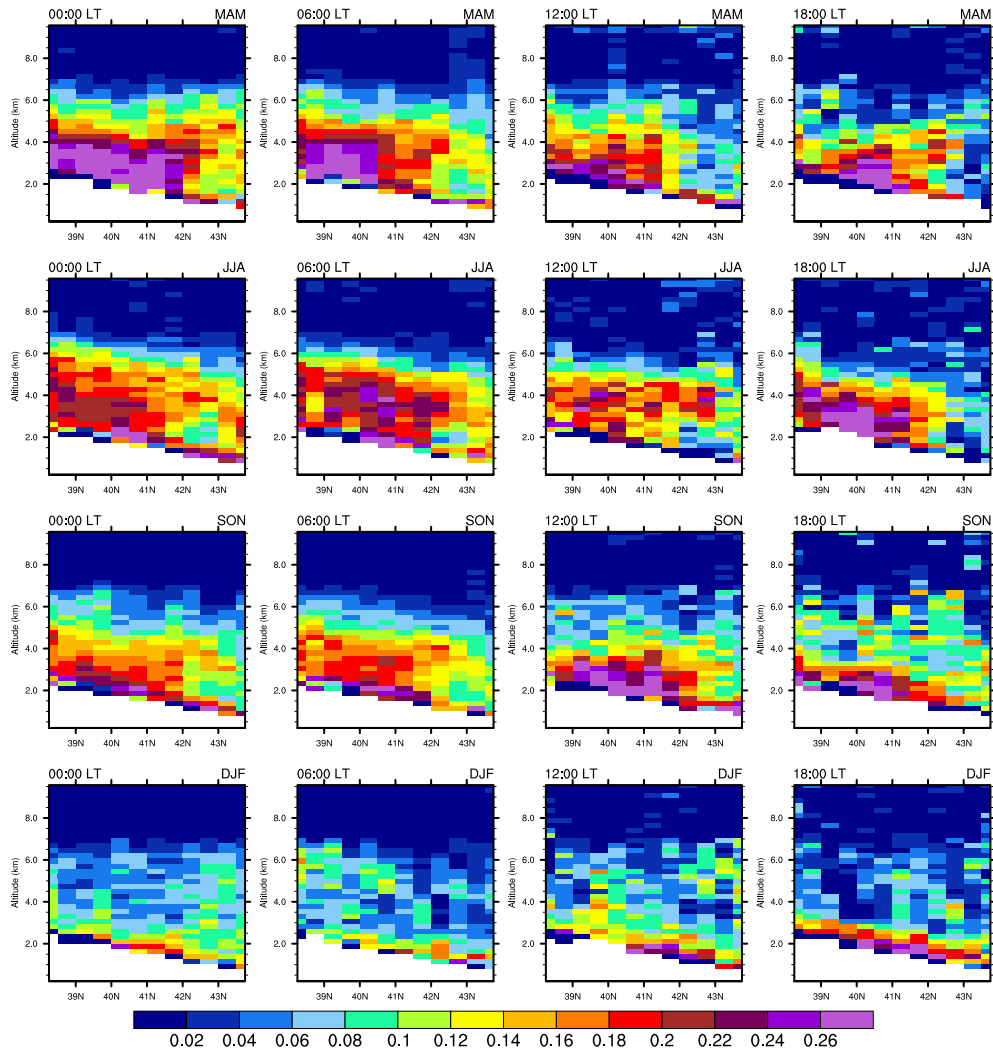



Figure S8. Same as Fig. S6 but for Tarim Basin.