

Supplemental Information for

**Source attribution of light-absorbing aerosol in seasonal snow
across northern China**

by

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This SI is 3 pages long, including the cover page, and contains four figures.

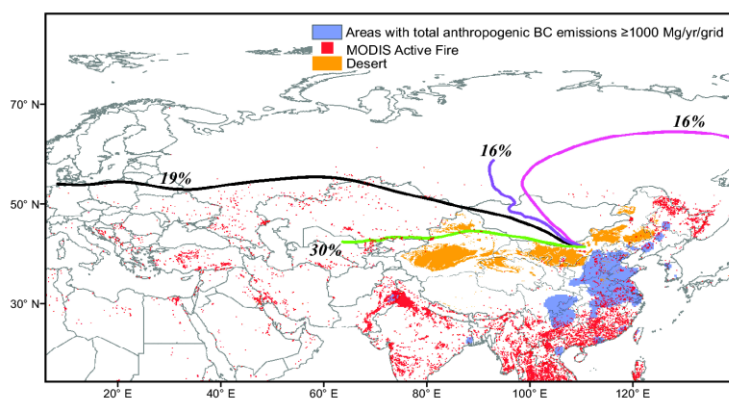


Figure S1. Back trajectory analysis for region 1 discussed in the text. A 7 cluster analysis back trajectory was done on each of the regions with mean trajectories shown for each cluster that encompassed 10% or more of the back trajectories. 296 total trajectories were included in the analysis.

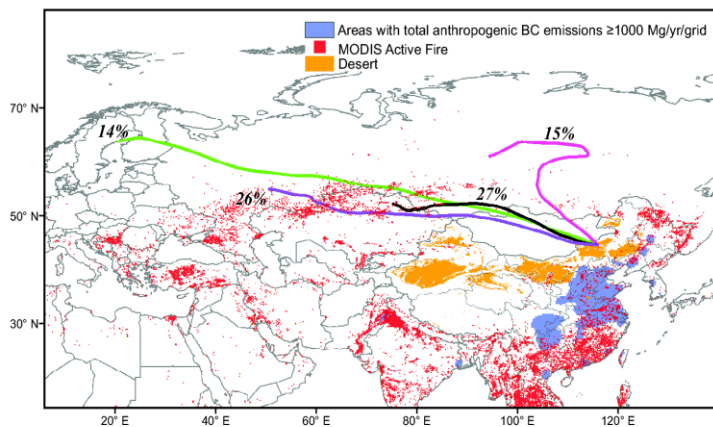


Figure S2. Back trajectory analysis for region 2 discussed in the text. A 7 cluster analysis back trajectory was done on each of the regions with mean trajectories shown for each cluster that encompassed 10% or more of the back trajectories. 380 total trajectories were included in the analysis.

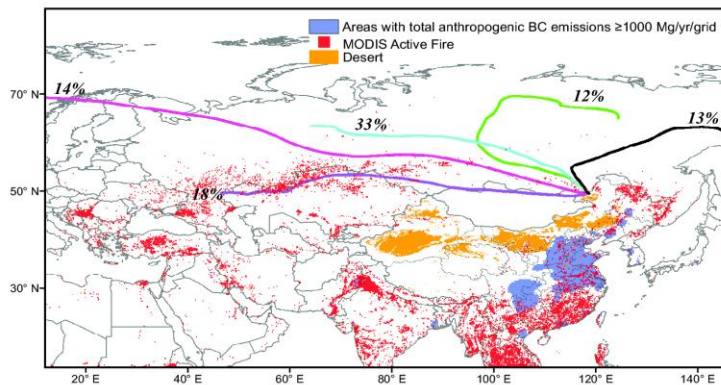


Figure S3. Back trajectory analysis for region 3 discussed in the text. A 7 cluster analysis back trajectory was done on each of the regions with mean trajectories shown for each cluster that encompassed 10% or more of the back trajectories. 396 total trajectories were included in the analysis.

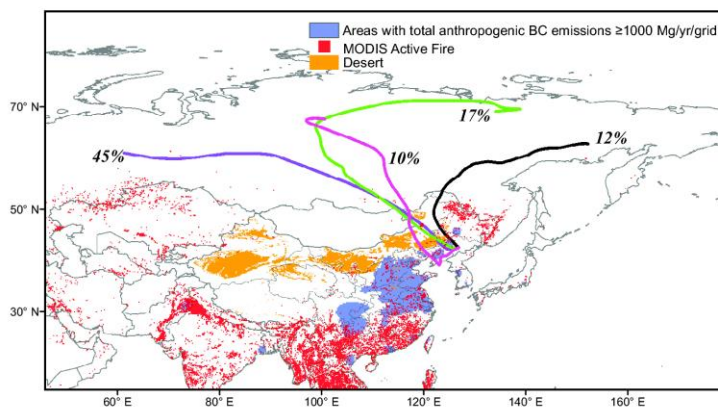


Figure S4. Back trajectory analysis for region 6 discussed in the text. A 7 cluster analysis back trajectory was done on each of the regions with mean trajectories shown for each cluster that encompassed 10% or more of the back trajectories. 400 total trajectories were included in the analysis.