

Accepted Manuscript

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PII: S1352-2310(18)30204-8

DOI: [10.1016/j.atmosenv.2018.03.050](https://doi.org/10.1016/j.atmosenv.2018.03.050)

Reference: AEA 15920

To appear in: *Atmospheric Environment*

Received Date: 23 August 2017

Revised Date: 20 March 2018

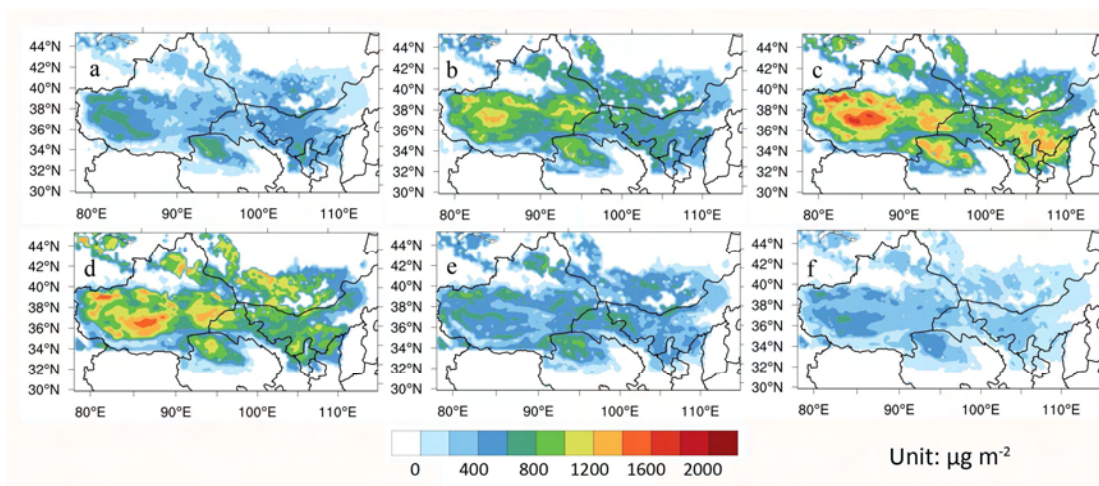
Accepted Date: 22 March 2018

Please cite this article as: Tang, Y., Han, Y., Liu, Z., Temporal and spatial characteristics of dust devils and their contribution to the aerosol budget in East Asia—An analysis using a new parameterization scheme for dust devils, *Atmospheric Environment* (2018), doi: 10.1016/j.atmosenv.2018.03.050.

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A new parameterization scheme for dust devils was established and coupled with WRF-Chem, the diurnal and monthly spatial distribution and intensity of dust devils in northern China were given for the first time. Simulated monthly distribution and intensity of dust devils in 2009 (a: April; b: May; c: June; d: July; e: August; f: September).

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