

Improving East Asian dust emission by accounting for subgrid wind variability and implicit geomorphic dependence

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- ▶ Use a dynamic, **implicit algorithm for geomorphic dependence** to eliminate the need for a dust source map (Kok et al., 2014)
- ▶ Account for **subgrid wind variability** with a Weibull probability distribution to reduce resolution dependence (Ridley et al., 2014)
- ▶ Low biases of simulated dust AOD in Teklimakan are improved (with respect to MODIS AOD); AOD in Gobi is now overestimated

