

*Supplement of*

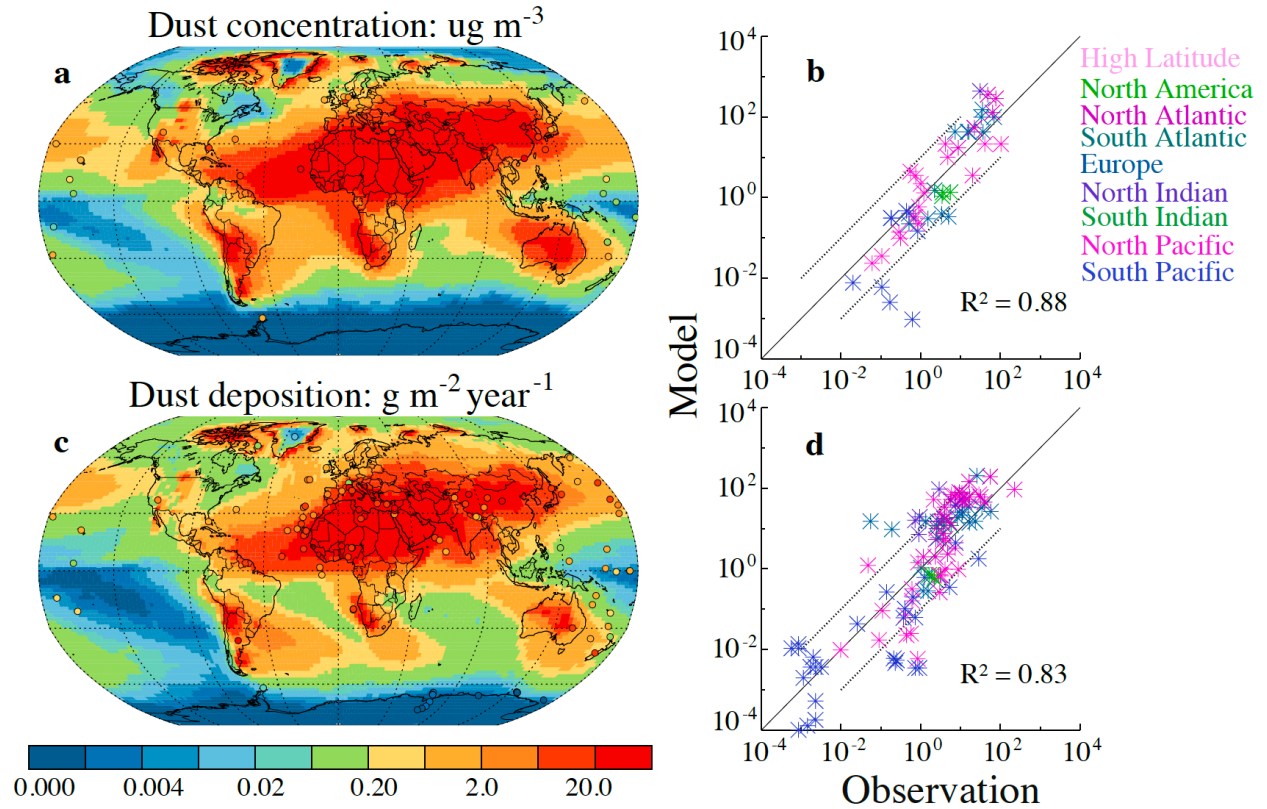
## **Response to Referee 2**

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**Figure R1.** Comparison of simulated (the baseline case; see text for details) dust surface concentration, and deposition with observations. Also shown is correlation (both passed 95% statistically significant tests) between modeling and observations over sub-domains as indicated by texts in color. The dash lines in (b) and (d) represent 10:1 (upper left) and 1:10 (bottom right) lines.