



Supplement of

Size-resolved dust direct radiative effect efficiency derived from satellite observations

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1. Demonstration of monthly-mean *size-resolved* DREE dataset

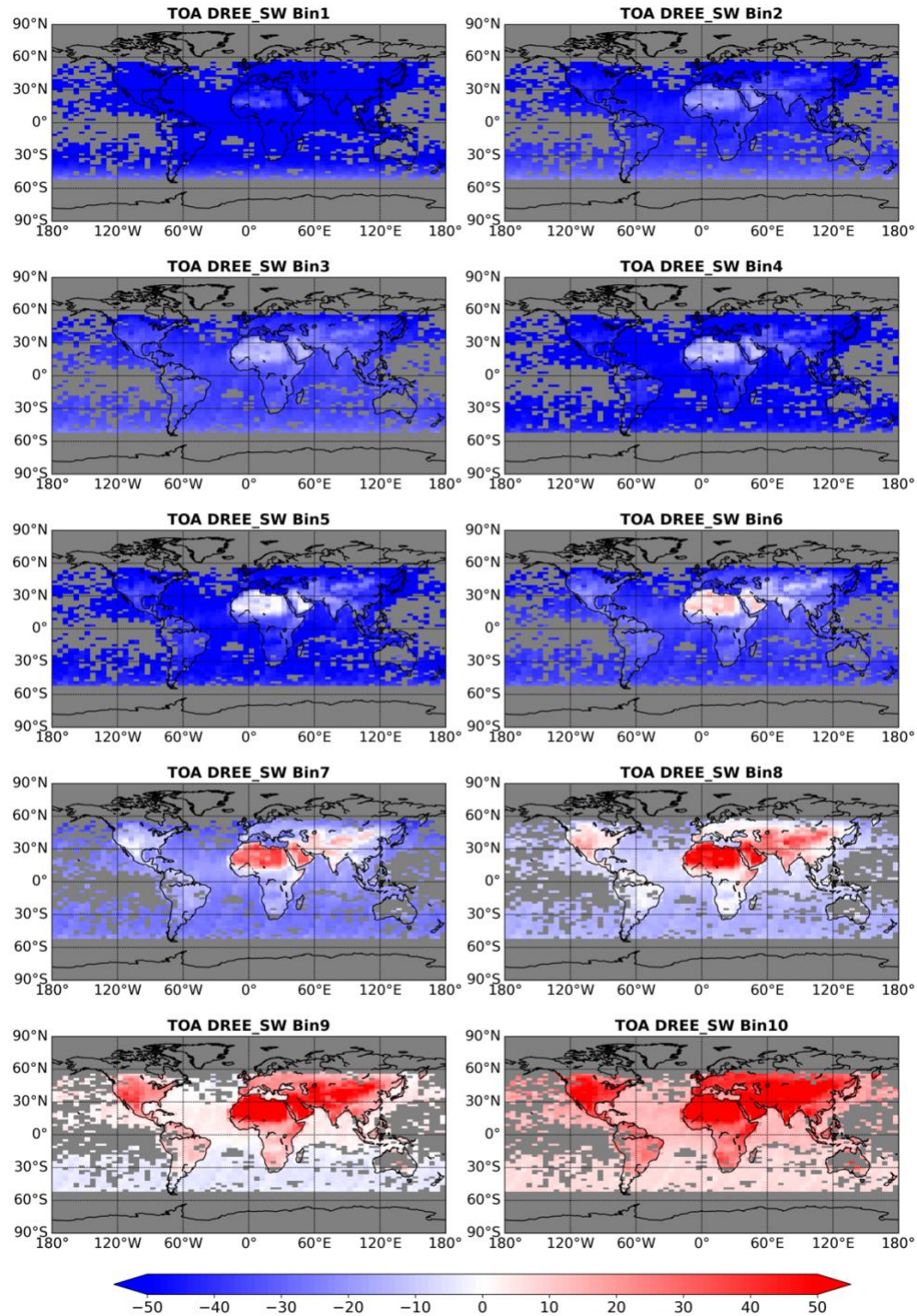


Figure S1. Global distribution of four-year (2007-2010) June monthly mean DREE^{SW} of MeanSWRI-Spheroid dust model at TOA obtained from the *size-resolved* DREE dataset. Grey area indicates area without DREE derivations (e.g., DAOD retrieval is not available or $DAOD^{532nm} \leq 0.01$ over the area).

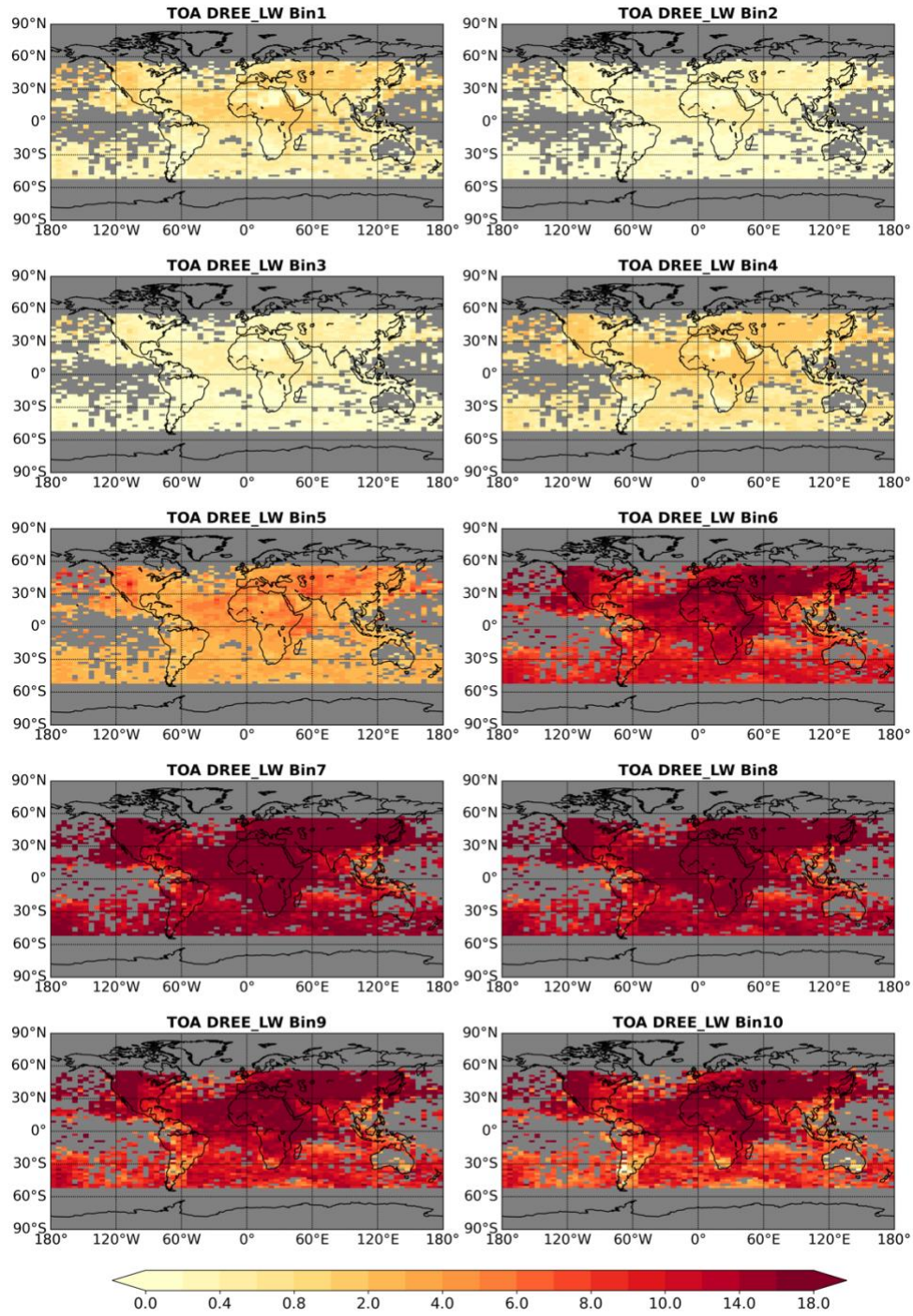


Figure S2. Global distribution of four-year (2007-2010) June monthly-mean DREE^{LW} of MeanLWRI-Spheroid dust model at TOA obtained from the *size-resolved* DREE dataset. Grey area indicates area without DREE derivations (e.g., DAOD retrieval is not available or $DAOD^{532nm} \leq 0.01$ over the area).