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*Supplement of*

## **Evaluation of the global aerosol microphysical ModelE2-TOMAS model against satellite and ground-based observations**

**Y. H. Lee et al.**

*Correspondence to:* Y. H. Lee (yunha.lee.00@gmail.com)

Table S1. Configurations of available TOMAS models. Currently, ModelE2-TOMAS has TOMAS12 and TOMAS15 models, and TOMAS15 is used in this study.

Model name	Particle diameter					Size boundary definition	Availability in ModelE2
	1 nm to 3 nm	3 nm to 10 nm	10nm to 100nm	100 nm to 1 $\mu$ m	1 $\mu$ m to 10 $\mu$ m		
TOMAS12			5bin	5 bins	2 bins	Mass quadrupling (up to 1 $\mu$ m) and mass 32x from 1 $\mu$ m	Yes
<b>TOMAS15 (default)</b>		3 bins	5bins	5 bins	2 bins	Mass quadrupling (up to 1 $\mu$ m) and mass 32x from 1 $\mu$ m	Yes
TOMAS18		3 bins	5 bins	5 bins	5 bins	Mass quadrupling	No
TOMAS30			10 bins	10 bins	10 bins	Mass doubling	No
TOMAS40	4 bins	6 bins	10 bins	10 bins	10 bins	Mass doubling	No