Supplemental of

MICS-Asia III: Overview of model inter-comparison and evaluation of acid deposition over Asia

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Figure S1. Spatial distributions of the annual accumulated dry deposition of sulfate aerosol, sulfur dioxide (SO_2), and sulfuric acid (H_2SO_4) (S).

Figure S2. Spatial distributions of the annual accumulated total deposition of S.

Figure S3. Spatial distributions of the proportion of the wet deposition of S to the total deposition of S on the annual mean.

Figure S4. Spatial distributions of the annual accumulated dry deposition of nitrate aerosol, nitrogen monoxide (NO), nitrogen dioxide (NO₂), and nitric acid (HNO₃) (N).

Figure S5. Spatial distributions of the annual accumulated total deposition of N.

Figure S6. Spatial distributions of the proportion of the wet deposition of N to the total deposition of N on the annual mean.

Figure S7. Spatial distributions of the annual accumulated dry deposition of ammonium aerosol and ammonia (NH_3) (A).

Figure S8. Spatial distributions of the annual accumulated total deposition of A.

Figure S9. Spatial distributions of the proportion of the wet deposition of A to the total deposition of A on the annual mean.

Figure S10. Spatial distributions of (left) the ensemble mean and (right) the coefficient of variation for the dry deposition of (a) S, (b) N, and (c) A.

Figure S11. Spatial distributions of the ensemble mean (left) and the coefficient of variation (right) for the total deposition of (a) S, (b) N, and (c) A.

Table S1. Composition of the dry deposition of S averaged over domain.

Model	M1	M2	M4	M5	M6	M11	M12	M13	M14
Sulfate aerosol	31.8	29.4	19.8	28.2	26.6	17.9	14.9	11.7	50.0
SO ₂	68.2	70.4	80.1	71.8	73.2	54.9	85.1	88.3	50.0
H ₂ SO ₄	–	0.2	0.2	–	0.2	27.2	0.1	–	–

Note: Shown as a percentage (%) of the sum of the dry deposition of S. – denotes lack of data.

Table S2. Composition of the dry deposition of N averaged over domain.

Model	M1	M2	M4	M5	M6	M11	M12	M13	M14
Nitrate aerosol	18.1	19.4	19.0	15.4	19.3	28.0	32.1	8.8	38.8
NO	7.1	0.4	0.6	0.6	0.3	–	1.4	–	1.6
NO ₂		5.6	5.8	5.8	5.3	–	25.3	12.0	16.1
HNO ₃	74.8	70.1	75.0	78.2	75.1	72.0	41.2	79.2	43.5

Note: Shown as a percentage (%) of the sum of the dry deposition of N. – denotes lack of data.

Table S3. Composition of the dry deposition of A averaged over domain.

Model	M1	M2	M4	M5	M6	M11	M12	M13	M14
Ammonium aerosol	13.6	7.3	11.0	20.3	10.4	26.6	13.9	19.9	18.7
NH ₃	86.4	92.7	89.0	79.7	89.6	73.4	86.1	80.1	81.3

Note: Shown as a percentage (%) of the sum of the dry deposition of A.