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Supplement of

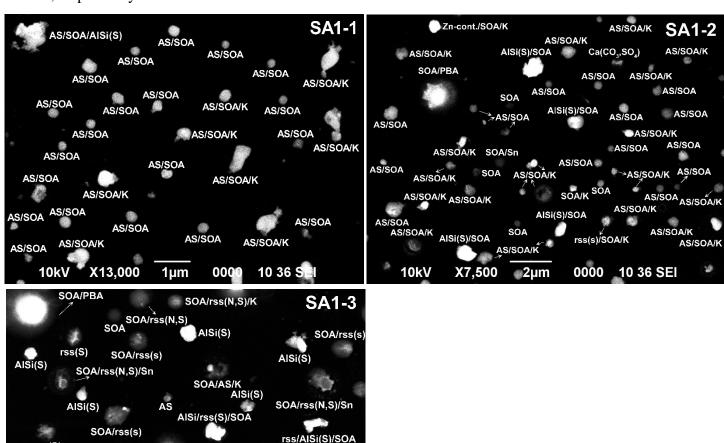
Single-particle characterization of aerosols collected at a remote site in the Amazonian rainforest and an urban site in Manaus, Brazil

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Figure S1. Typical SEM images of aerosol particles for stage 1 (PM_{0.25-0.5}), stage 2 (PM_{0.5-1.0}), and stage 3 (PM_{1.0-2.0}) samples of SA1 collected on Apr. 1, 2012 at the ATTO site. For convenience, ammonium sulfate, secondary organic aerosol, aluminosilicates, and reacted sea-salt are denoted as "AS", "SOA", "AlSi" and "rss", respectively.



🥞 AS/SOA

10 36 SEI

AS/SOA/K

SOA/rss(S)/K

rss(S)

SOA

10kV

SOA/AISi/rss(N,S)

X6,000 •

SOA/rss(S)/K

SOA/PBA

0000

Figure S2. Typical SEM images of aerosol particles for stage 1 ($PM_{0.25-0.5}$), stage 2 ($PM_{0.5-1.0}$), and stage 3 ($PM_{1.0-2.0}$) samples of SA2 collected on Apr. 16, 2012 at the ATTO site.

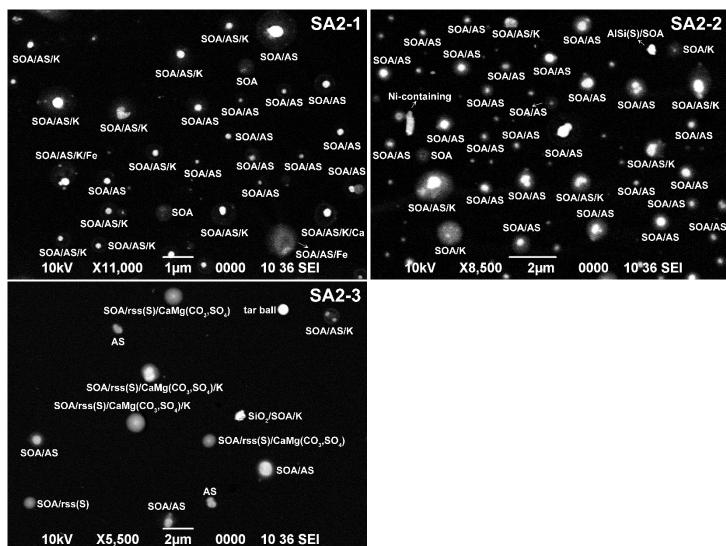
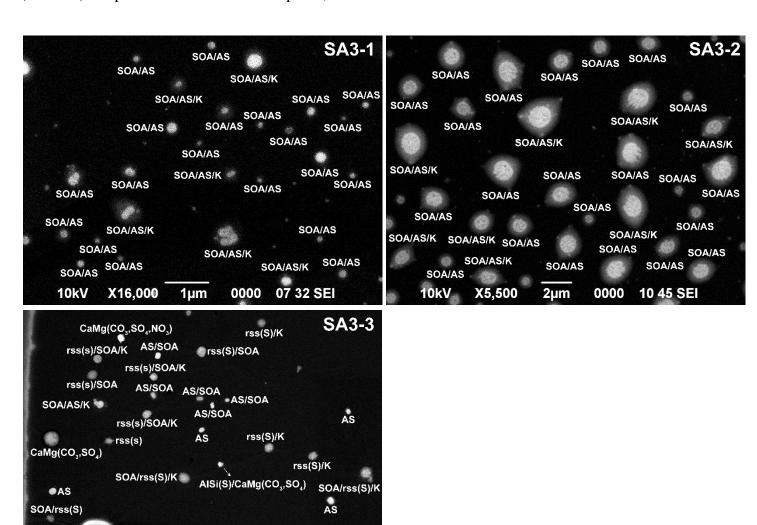


Figure S3. Typical SEM images of aerosol particles for stage 1 ($PM_{0.25-0.5}$), stage 2 ($PM_{0.5-1.0}$), and stage 3 ($PM_{1.0-2.0}$) samples of SA3 collected on Apr. 17, 2012 at the ATTO site.



SOA/PBA

5µm

0000

10 37 SEI

X3,700

10kV

Figure S4. Typical SEM images of aerosol particles for stage 1 (PM_{0.25-0.5}), stage 2 (PM_{0.5-1.0}), stage 3 (PM_{1.0-2.0}) and stage 4 (PM_{2.0-4.0}) samples of SA4 collected on Apr. 18, 2012 at the ATTO site.

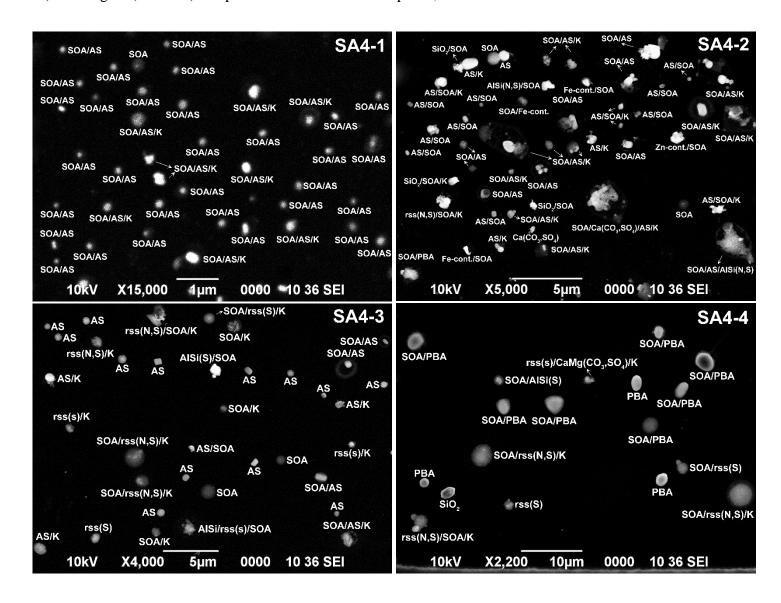
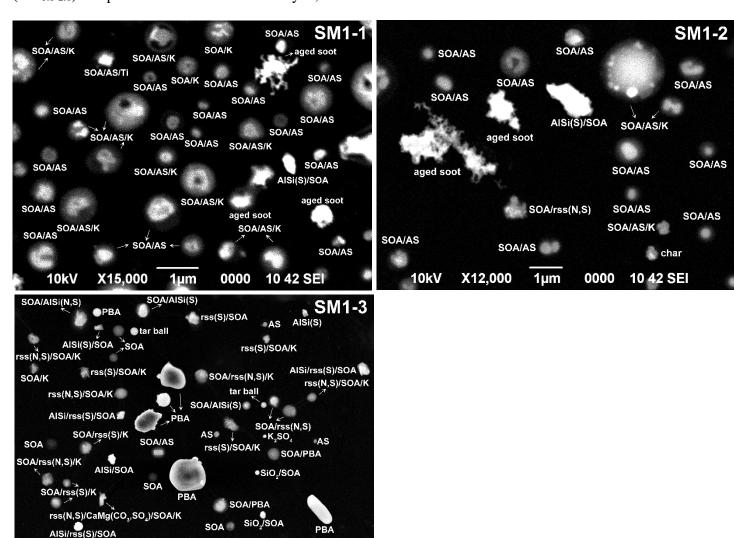


Figure S5. Typical SEM images of aerosol particles for stage 1 ($PM_{0.25-0.5}$), stage 2 ($PM_{0.5-1.0}$), and stage 3 ($PM_{1.0-2.0}$) samples of SM1 collected on May. 1, 2012 at the Manaus site.



10kV

X3,500

5µm

0000

10 42 SEI

Figure S6. Typical SEM images of aerosol particles for stage 1 ($PM_{0.25-0.5}$), stage 2 ($PM_{0.5-1.0}$), and stage 3 ($PM_{1.0-2.0}$) samples of SM2 collected on May. 2, 2012 at the Manaus site.

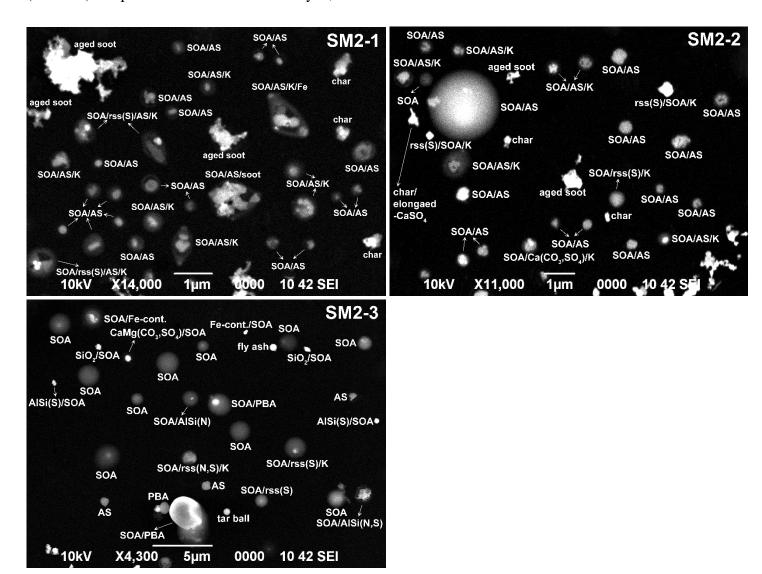


Figure S7. Typical SEM images of aerosol particles for the stage 1 ($PM_{0.25-0.5}$), stage 2 ($PM_{0.5-1.0}$), and stage 3 ($PM_{1.0-2.0}$) samples of SM3 collected on May. 3, 2012 at the Manaus site.

