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*Supplement of*

## **Evaluation of the Community Multiscale Air Quality (CMAQ) model v5.0 against size-resolved measurements of inorganic particle composition across sites in North America**

**C. G. Nolte et al.**

*Correspondence to:* C. G. Nolte ([nolte.chris@epa.gov](mailto:nolte.chris@epa.gov))

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Presented here are plots of the average modeled and measured size distributions for all 24 campaigns listed in Table 1 for each of the inorganic ions analyzed.

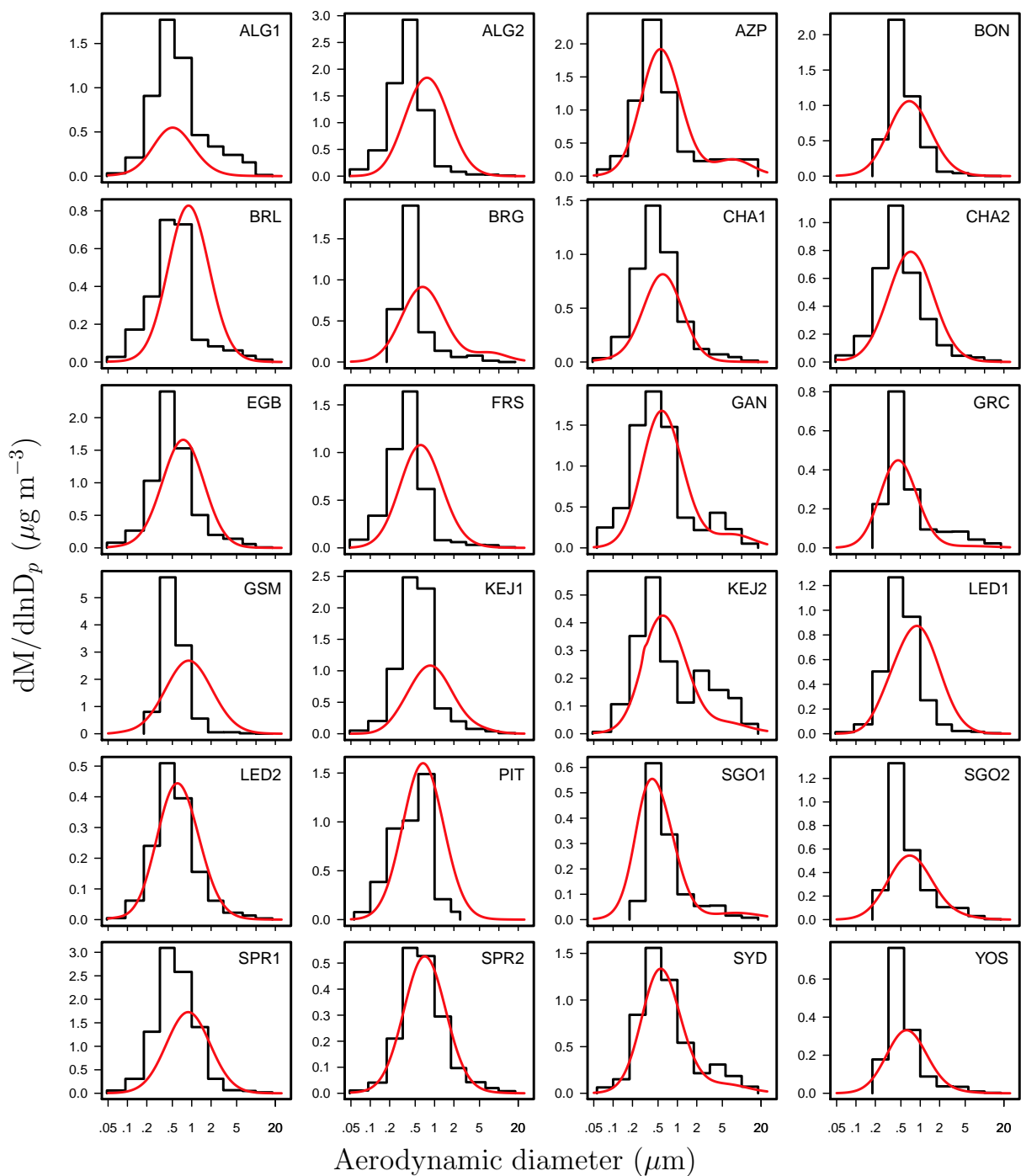


Figure S1: Average observed (black) and modeled (red)  $\text{SO}_4^{2-}$  size distributions across the 24 campaigns listed in Table 1.

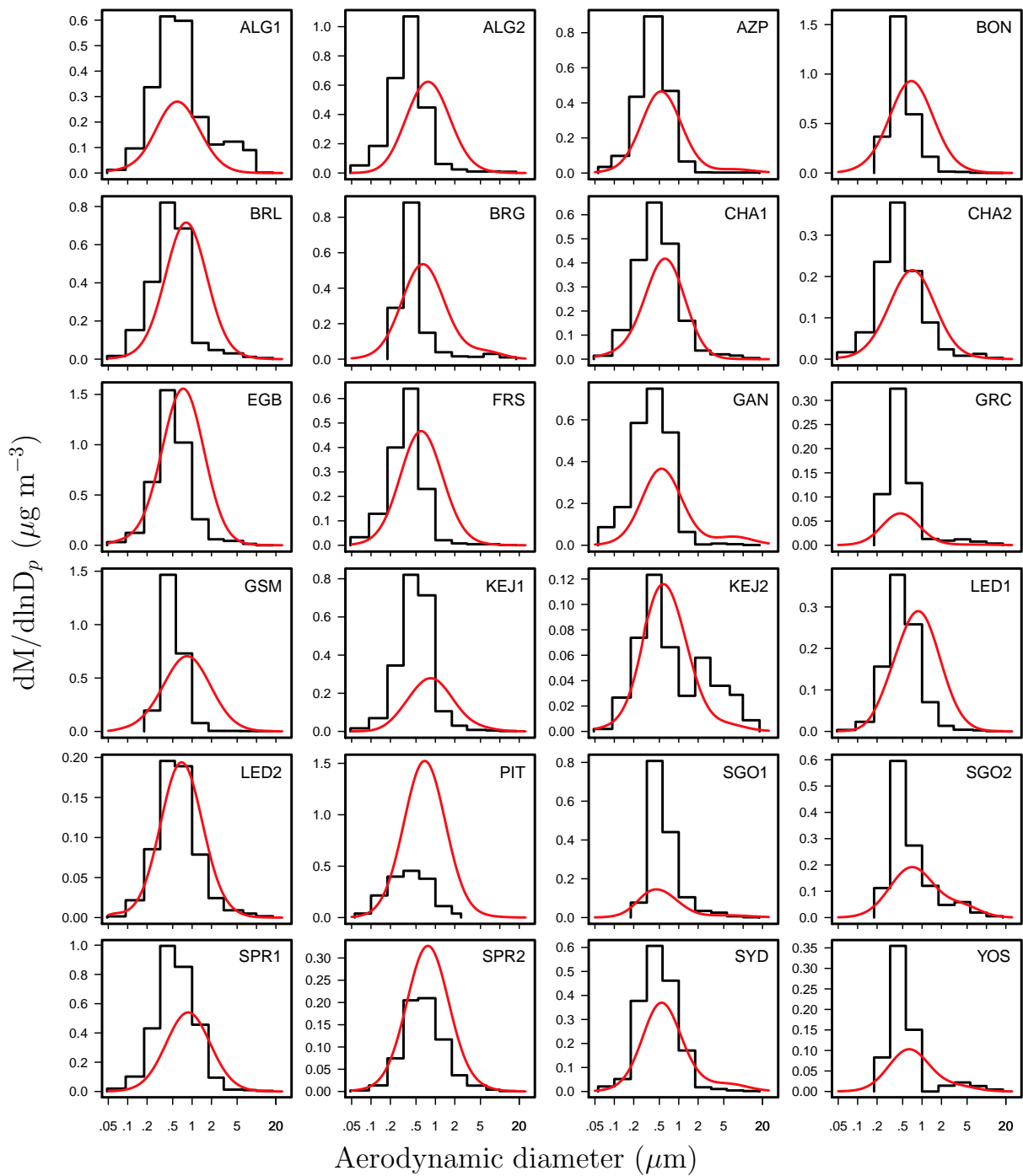


Figure S2: Average observed (black) and modeled (red)  $\text{NH}_4^+$  size distributions across the 24 campaigns listed in Table 1.

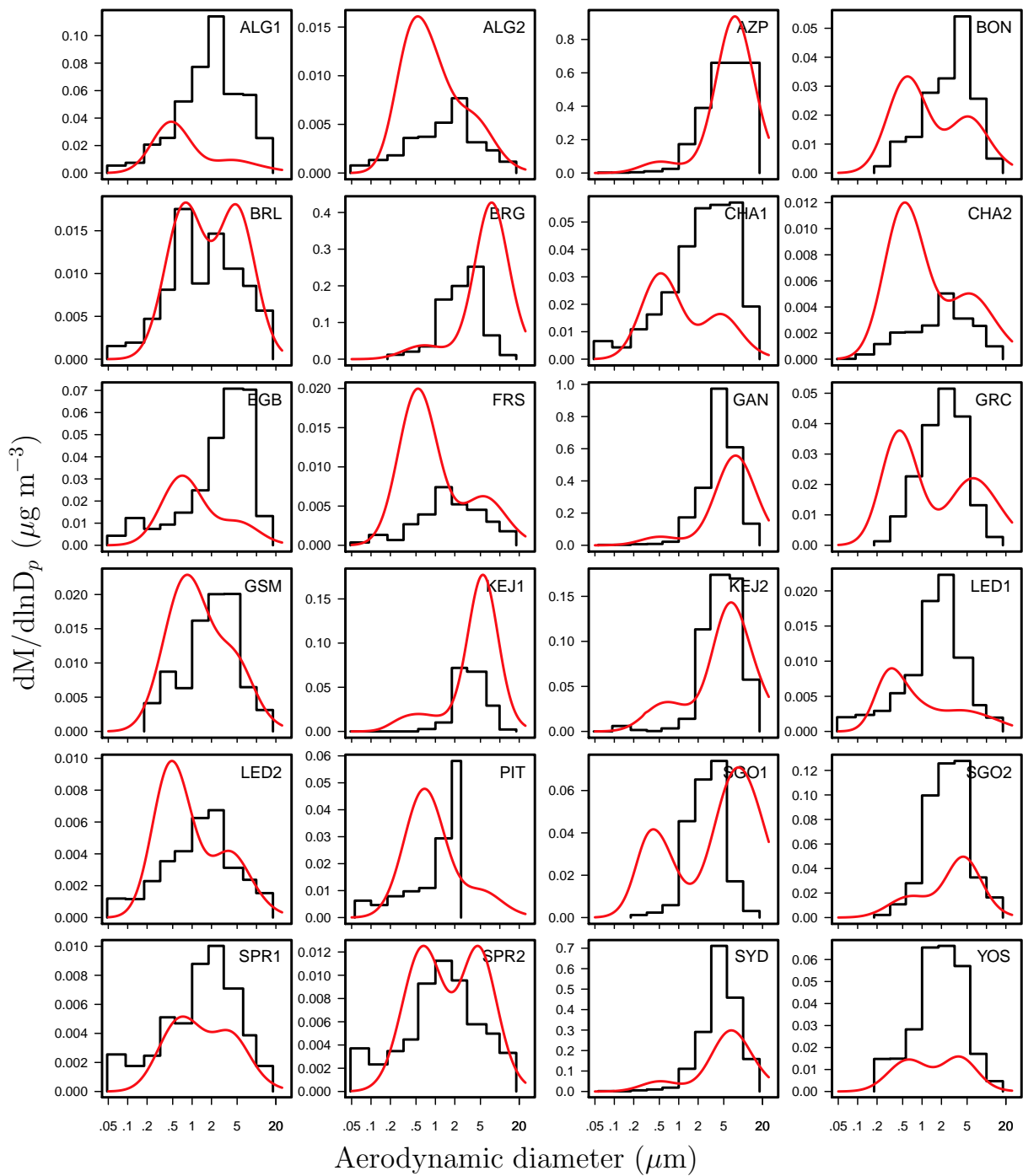


Figure S3: Average observed (black) and modeled (red)  $\text{Na}^+$  size distributions across the 24 campaigns listed in Table 1.

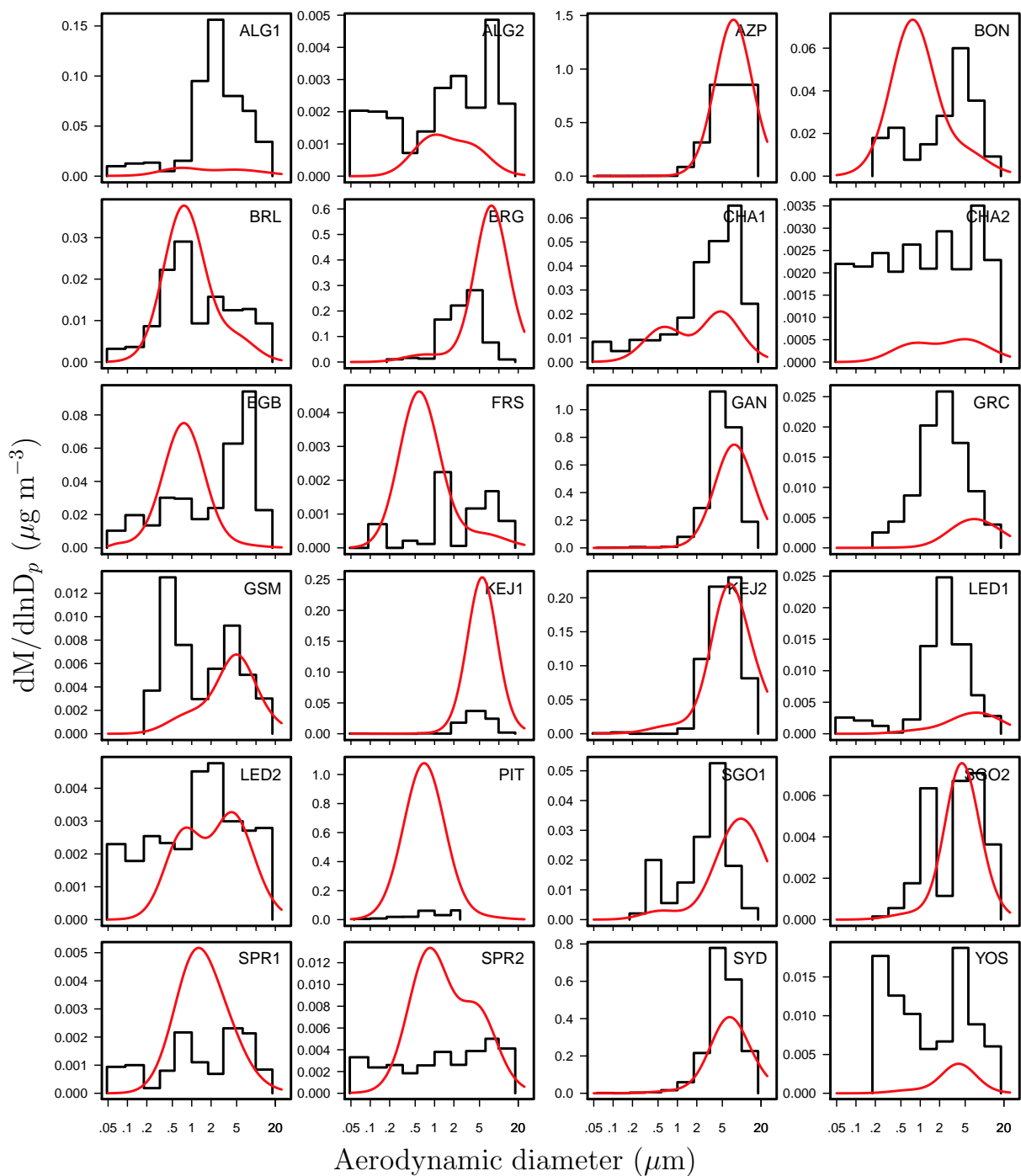


Figure S4: Average observed (black) and modeled (red)  $\text{Cl}^-$  size distributions across the 24 campaigns listed in Table 1.

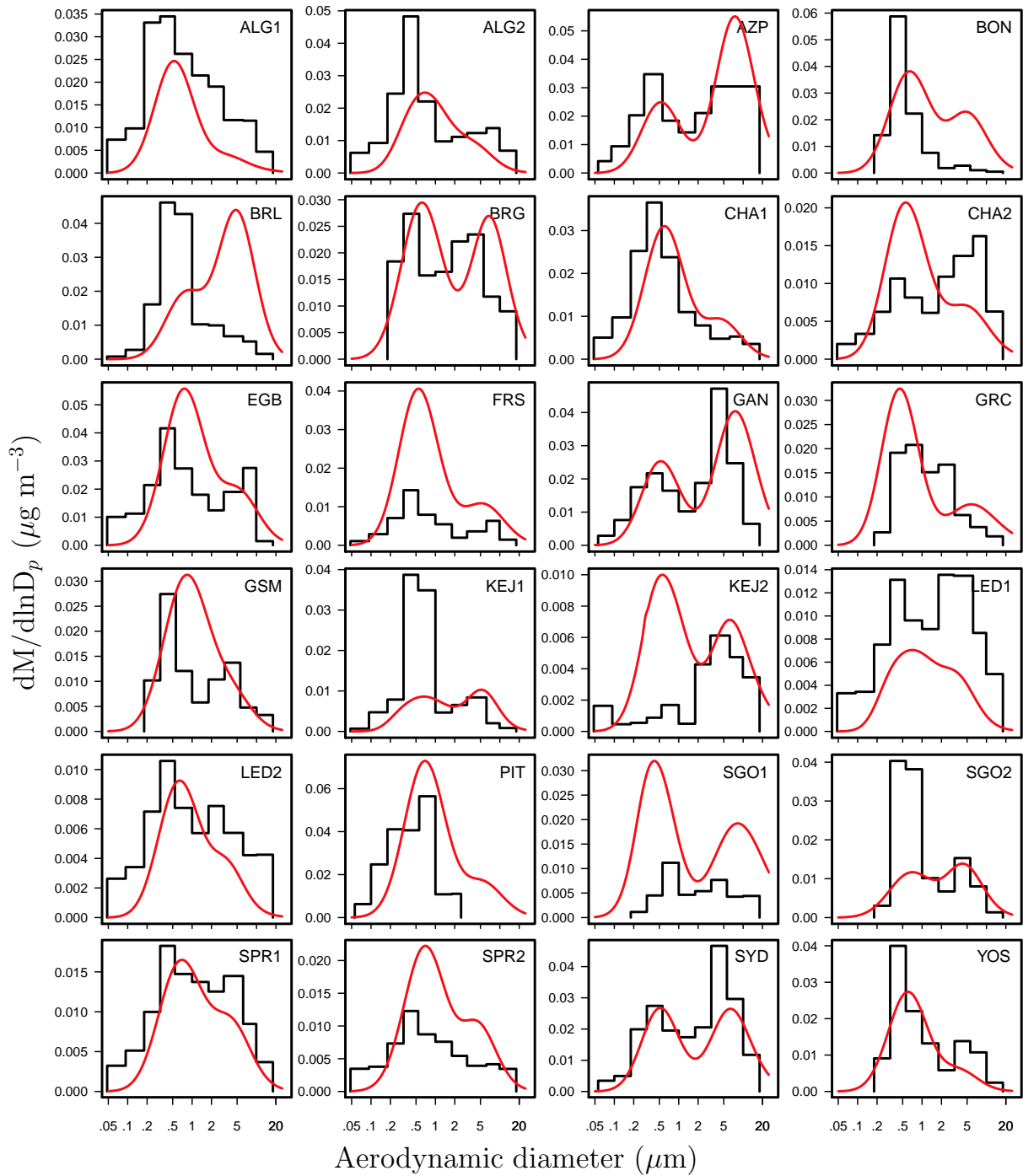


Figure S5: Average observed (black) and modeled (red)  $\text{K}^+$  size distributions across the 24 campaigns listed in Table 1.

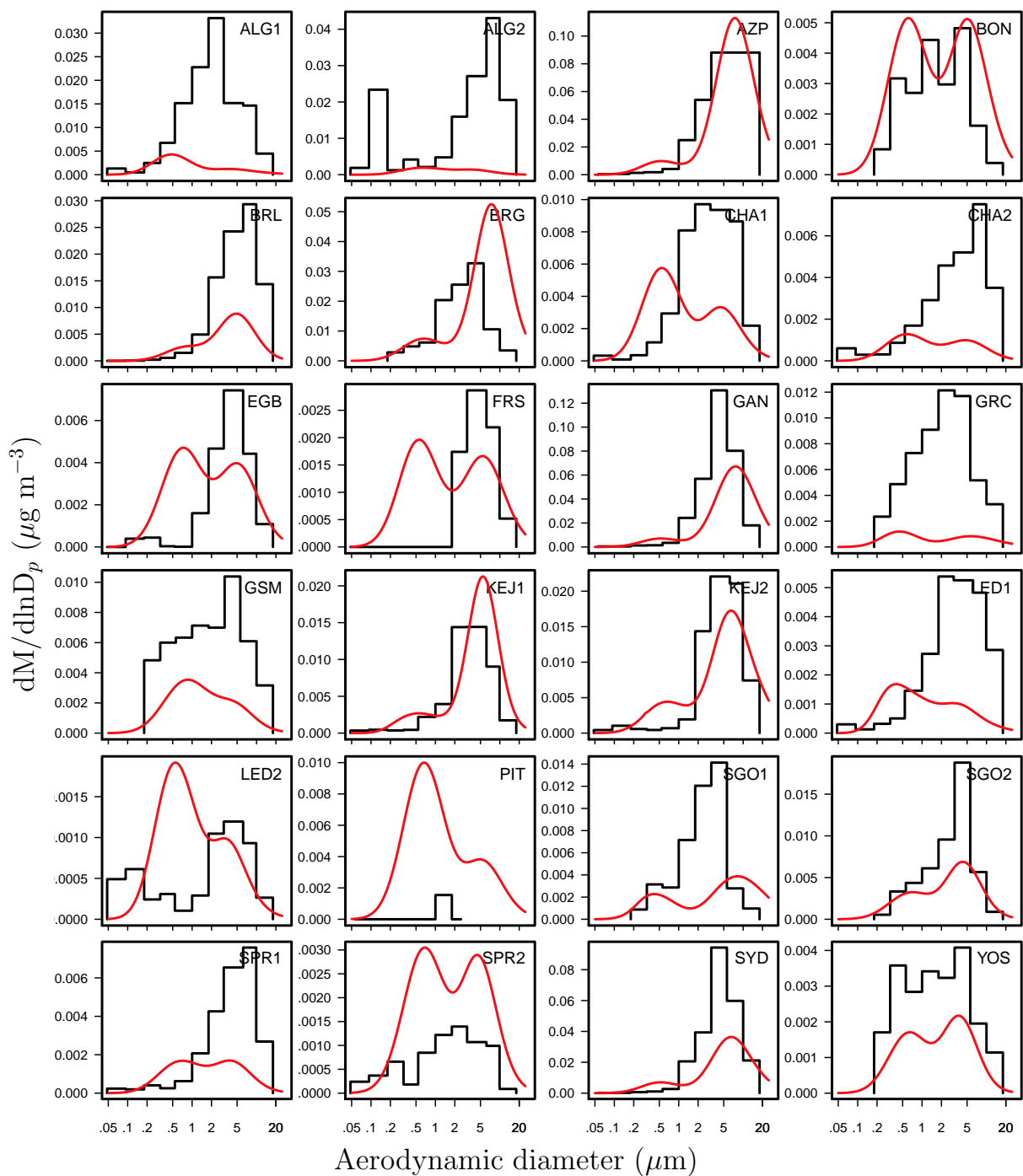


Figure S6: Average observed (black) and modeled (red)  $\text{Mg}^{2+}$  size distributions across the 24 campaigns listed in Table 1.



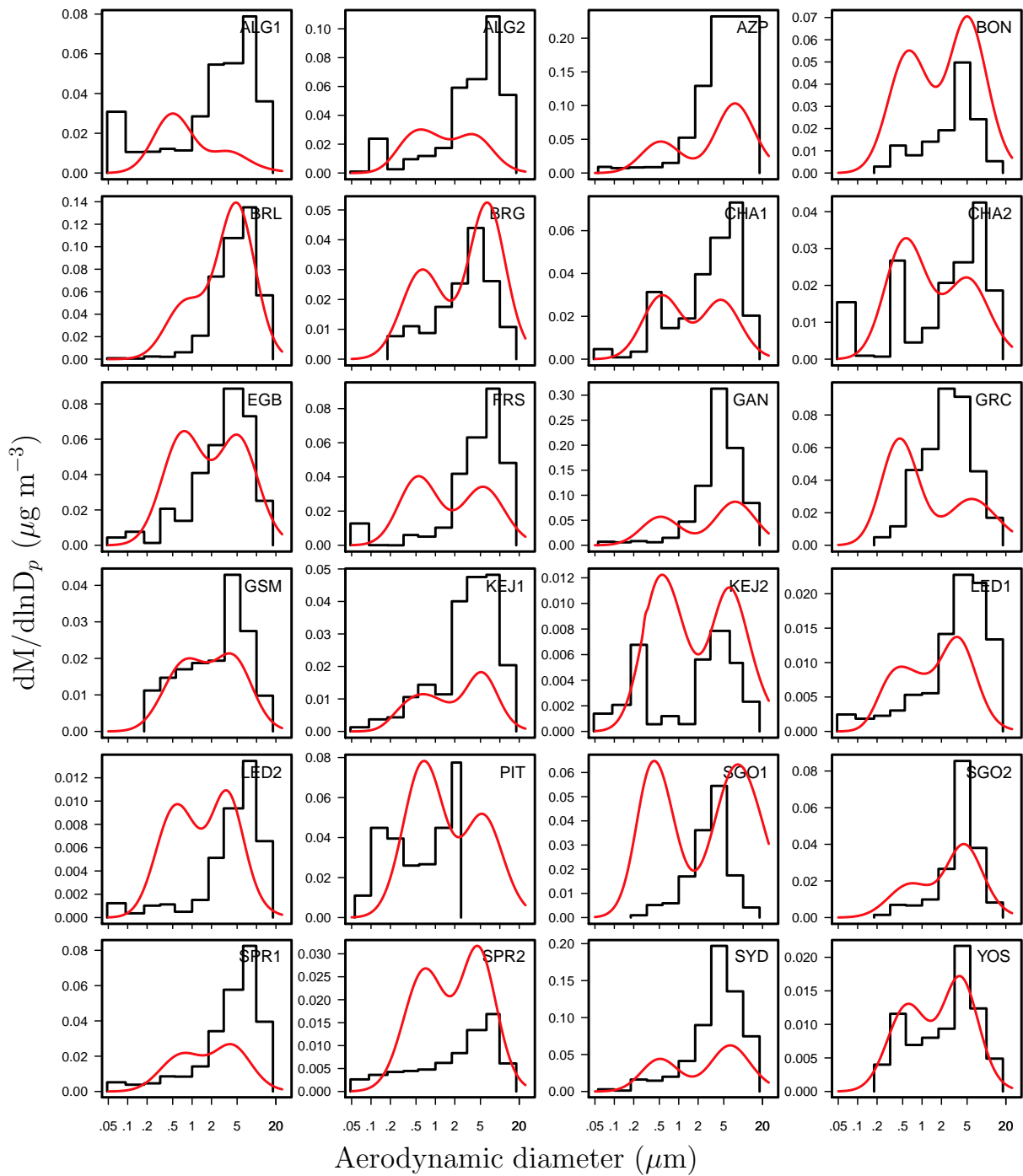


Figure S7: Average observed (black) and modeled (red)  $\text{Ca}^{2+}$  size distributions across the 24 campaigns listed in Table 1.

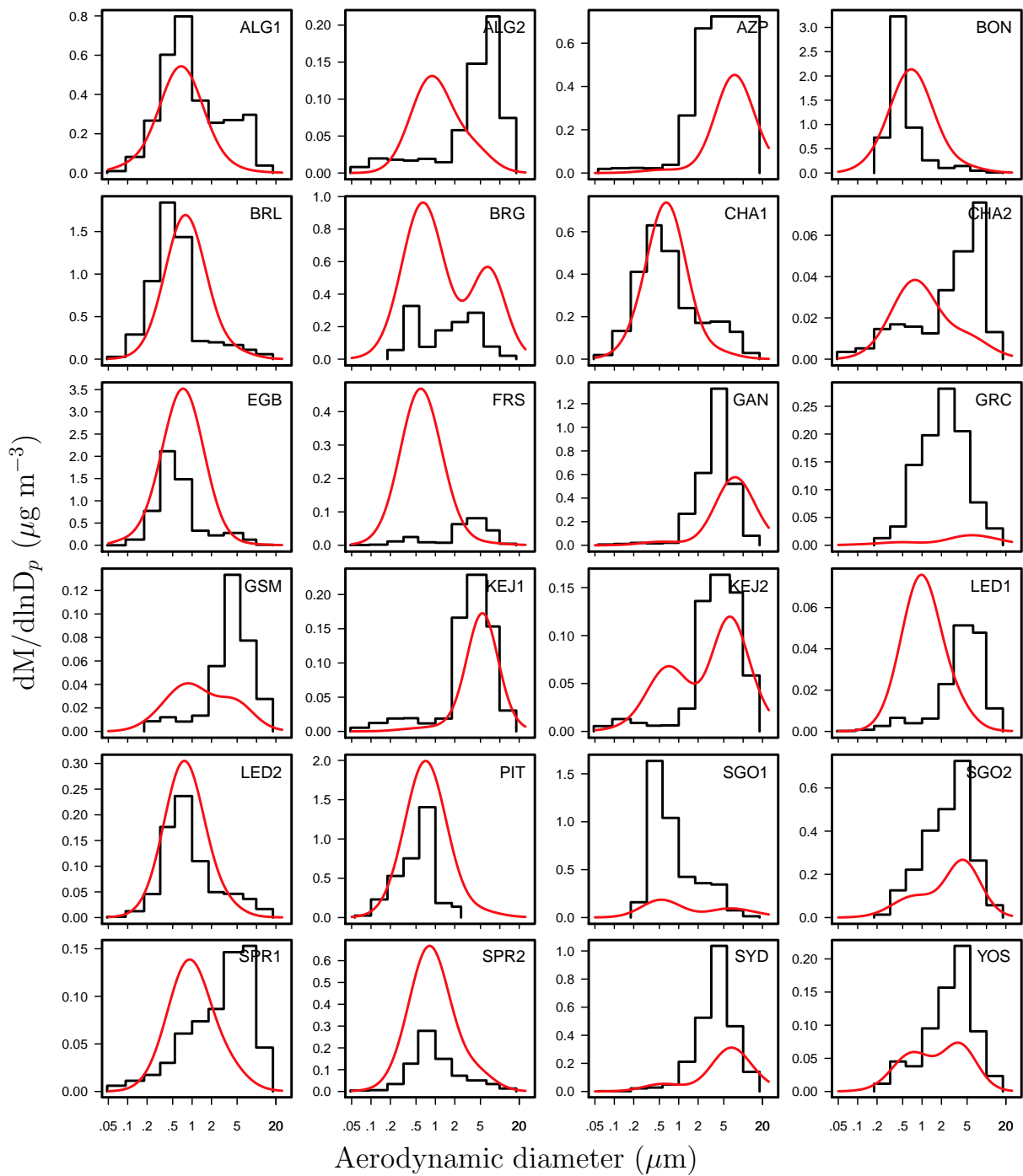


Figure S8: Average observed (black) and modeled (red)  $\text{NO}_3^-$  size distributions across the 24 campaigns listed in Table 1.