



Figure 6. Comparison of model performance in simulating NO₂, O₃ and PM_{2.5} concentrations between Base and MetEmis scenarios. The columns panels show the different model evaluation metrics in January (panel a and b) and July (panel c and d). The rows present different species including NO₂, O₃, and PM_{2.5}. RMSE is Root-mean-square deviation, R is correlation coefficient. delta is (MetEmis - Base)/Base; when $\Delta R > 0$ and $\Delta RMSE < 0$, indicate the improvement in MetEmis.

* NO₂ in January in Denver is -0.002, increased to 0.008 with MetEmis; Observed O₃ data is missing in Chicago and Atlanta in January.