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## Supplement of

## **Evaluation of the New York State Mesonet Profiler Network data**

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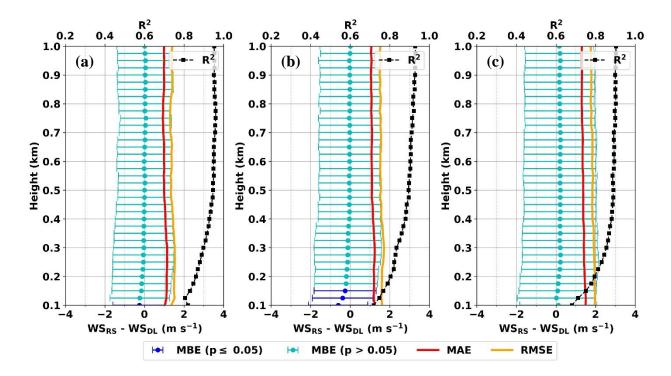


Figure S1: Vertical profiles of R<sup>2</sup>, MBE with one standard deviation error bars, MAE and RMSE for horizontal wind speed (WS) at three NYSM Profiler Network sites at: (a) Buffalo, (b) Albany, and (c) Stony Brook.

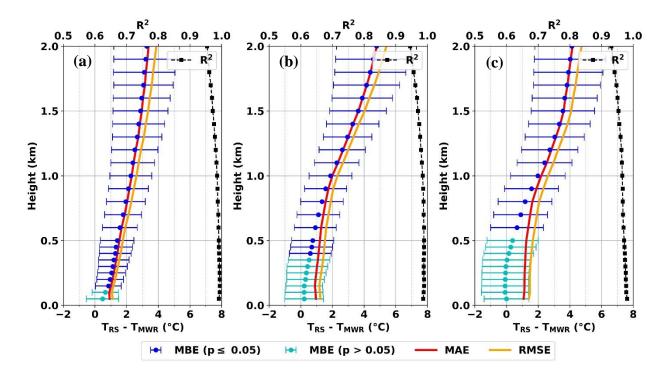


Figure S2: Vertical profiles of R<sup>2</sup>, MBE with one standard deviation error bars, MAE and RMSE for temperature (T) at three NYSM Profiler Sites at: (a) Buffalo, (b) Albany, and (c) Stony Brook.

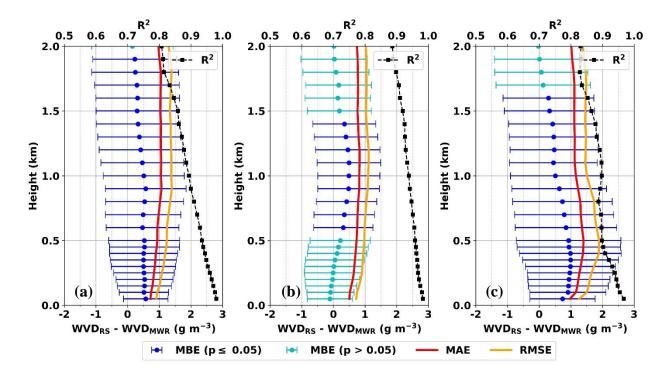


Figure S3: Vertical profiles of R<sup>2</sup>, MBE with one standard deviation error bars, MAE and RMSE for water vapor density (WVD) at three NYSM Profiler Sites at: (a) Buffalo, (b) Albany, and (c) Stony Brook.

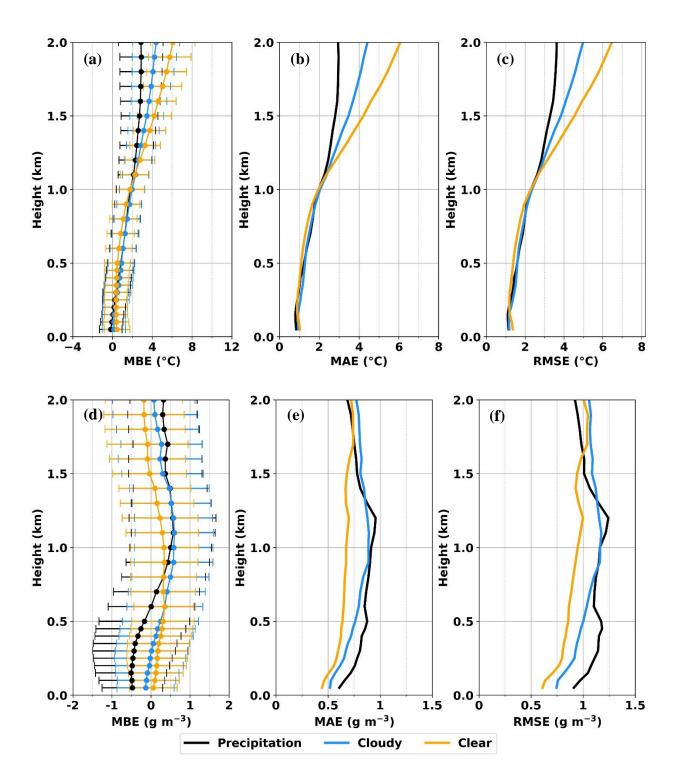


Figure S4: Vertical profiles of MBE with one standard deviation error bars, MAE and RMSE for (a-c) temperature and (d-f) water vapor density during three weather conditions from the NYSM Profiler site at Albany.