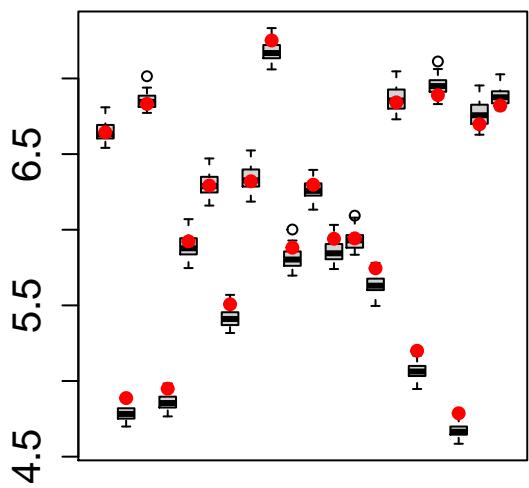
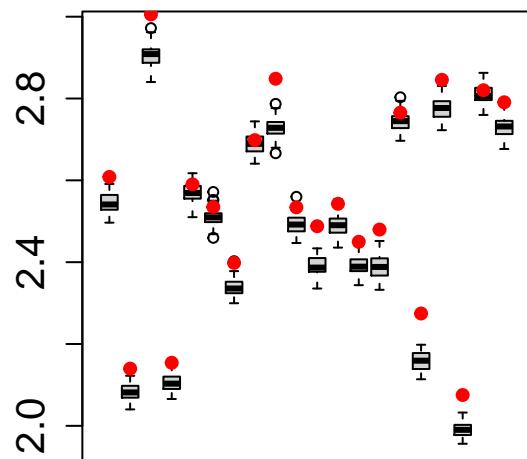


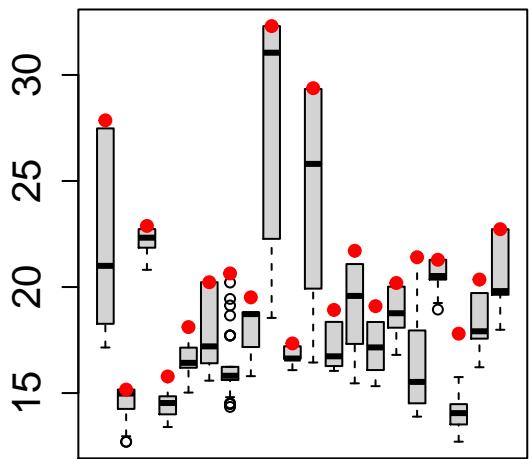
Mean – Wind



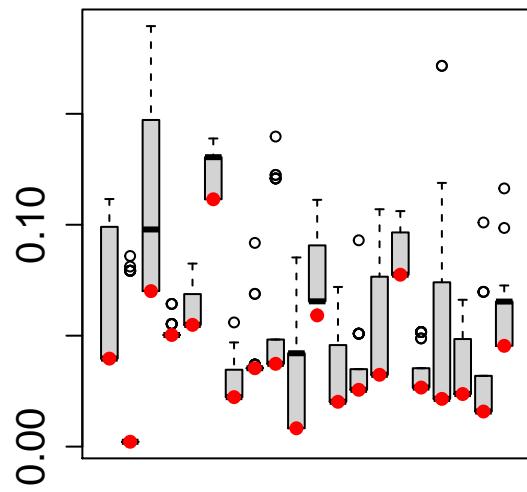
SD – Wind



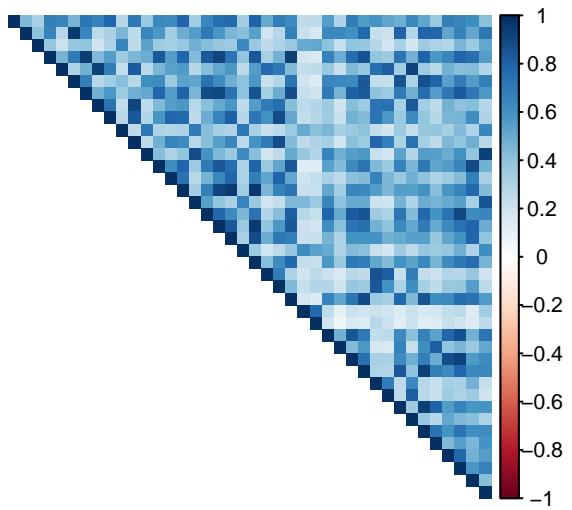
Maximum – Wind



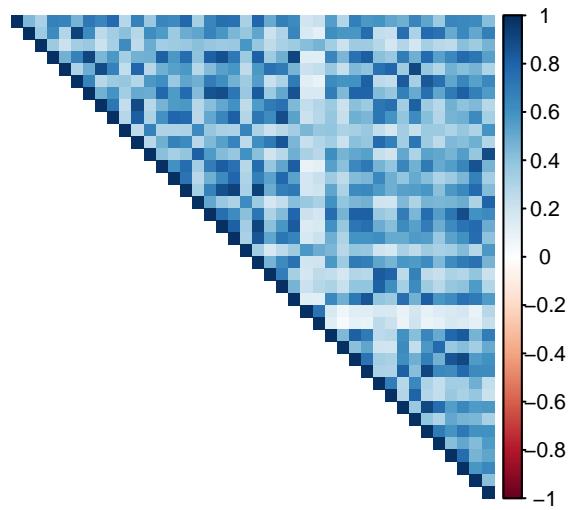
Minimum – Wind



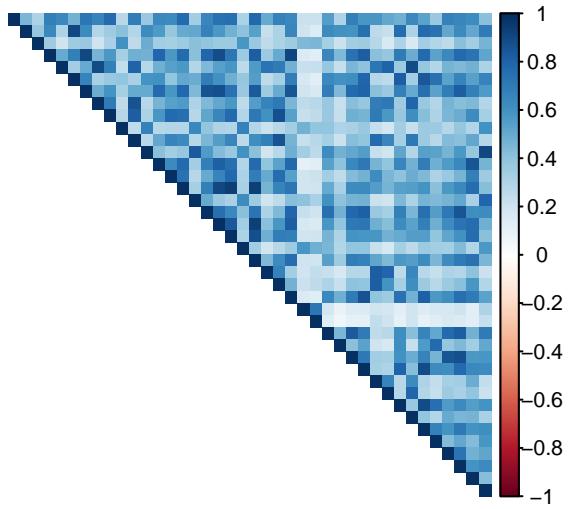
**Cross-Correlation
Data**



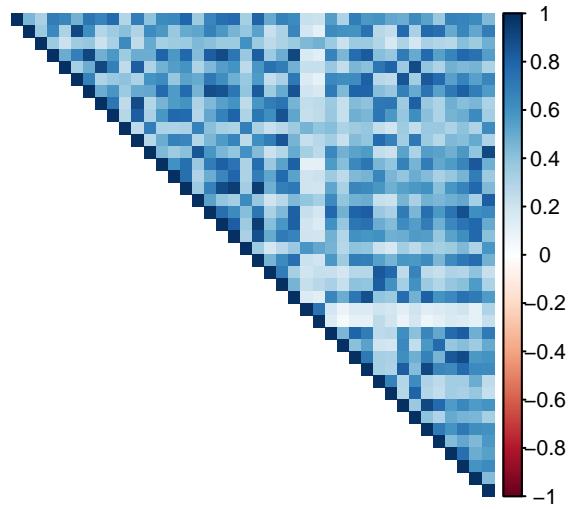
**Cross-Correlation
Simulation Run – 35**



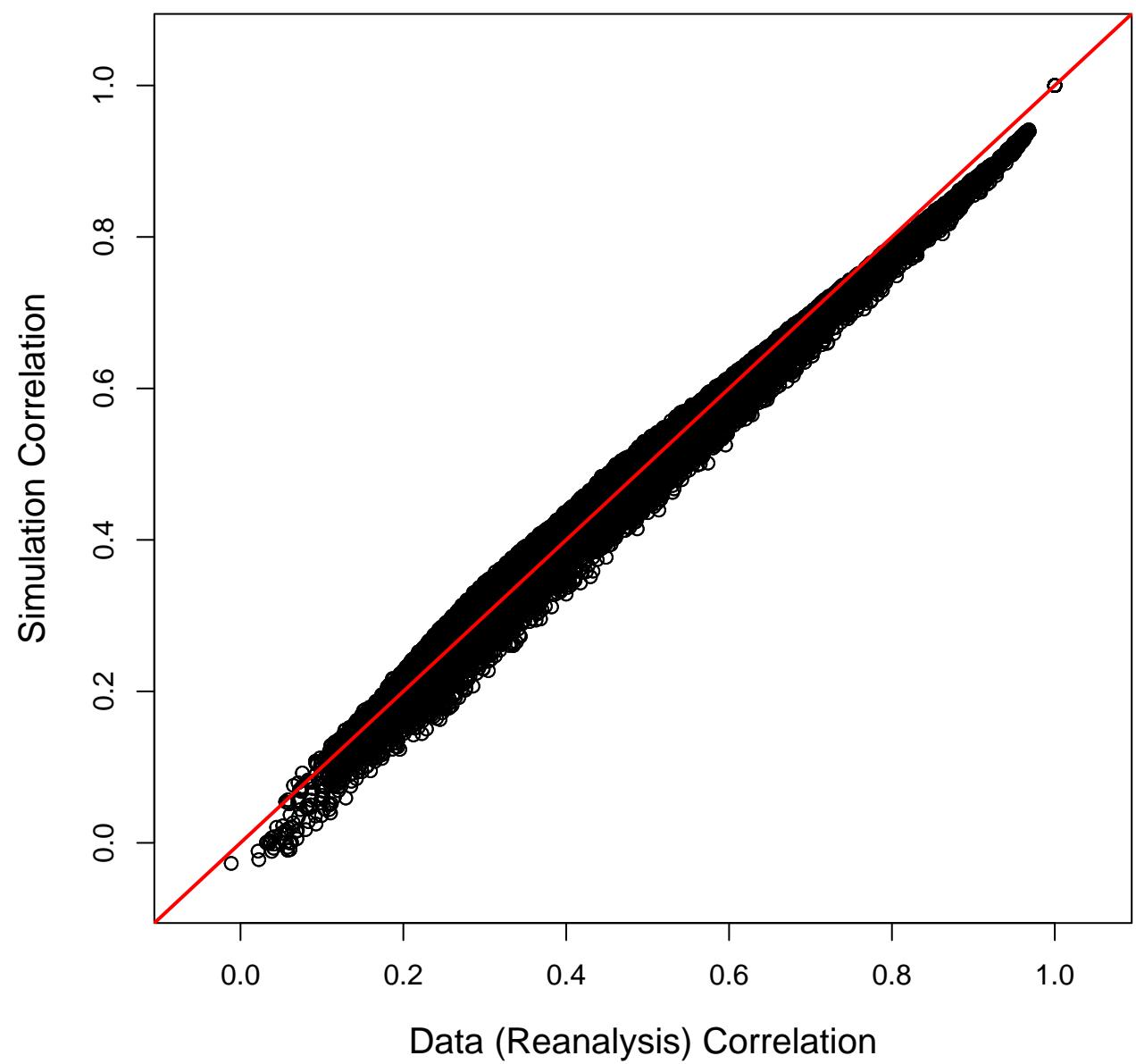
**Cross-Correlation
Simulation Run – 48**



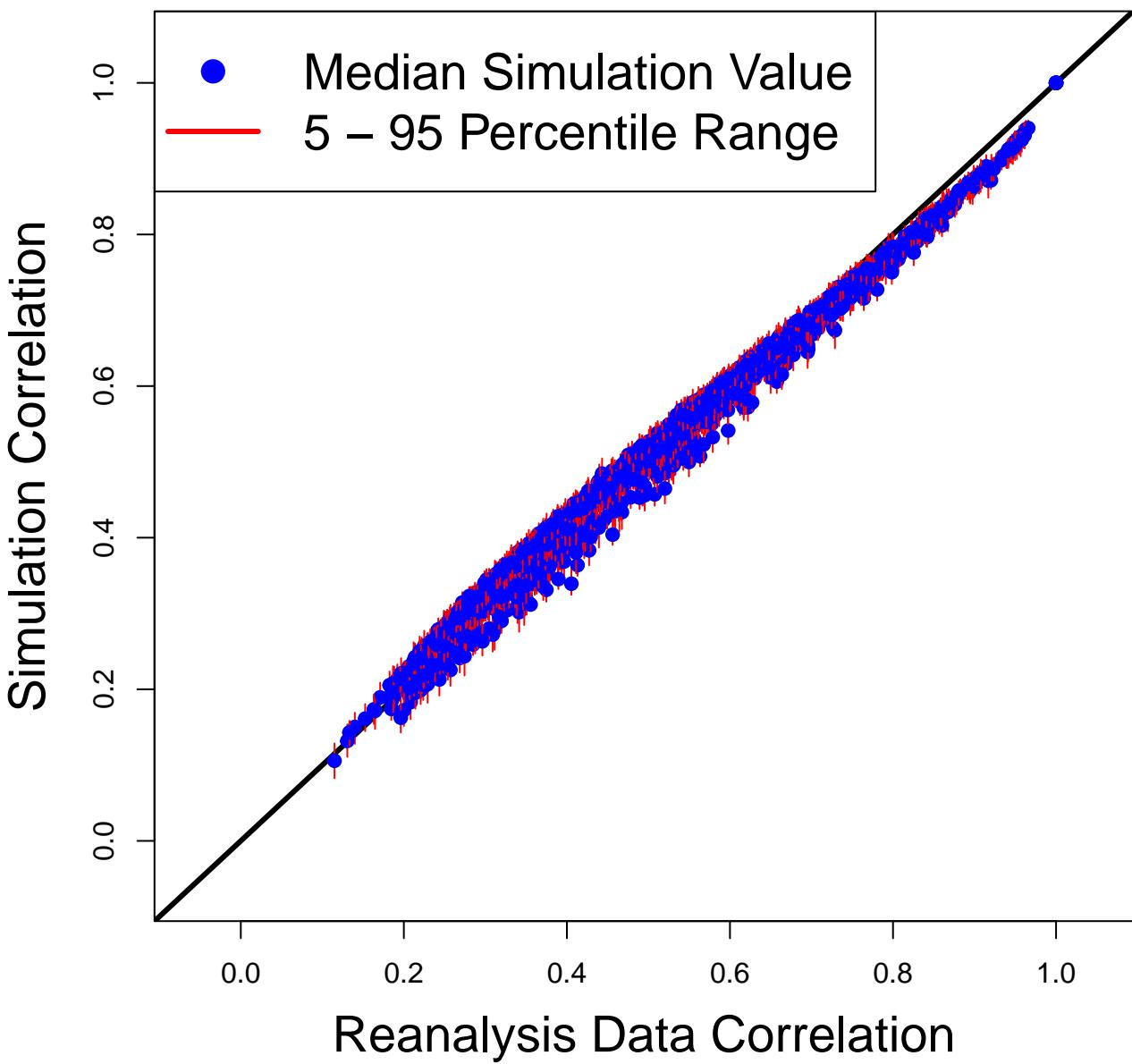
**Cross-Correlation
Simulation Run – 34**



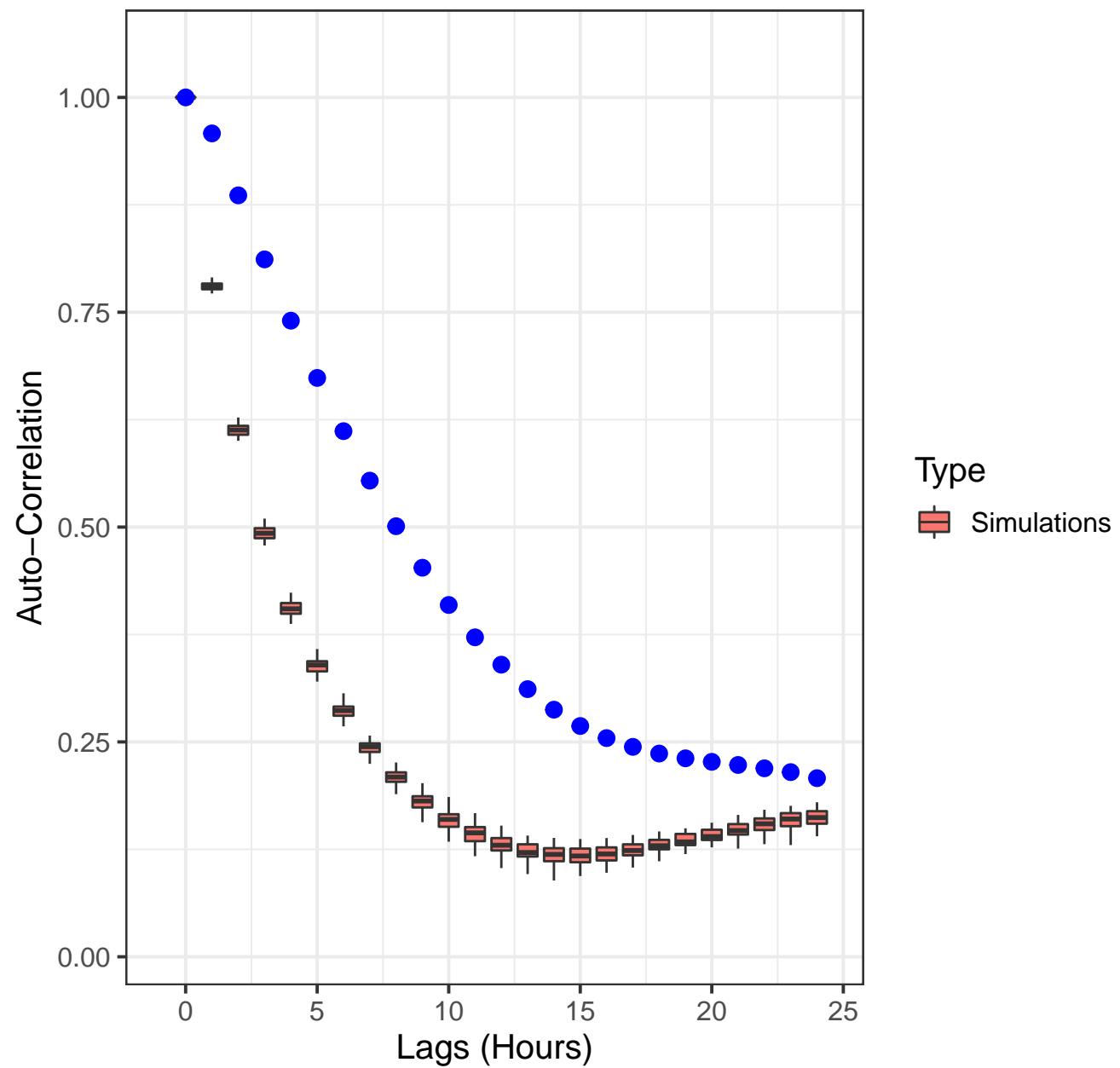
Cross Site Correlations – Wind

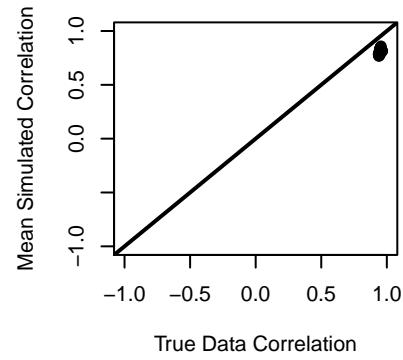
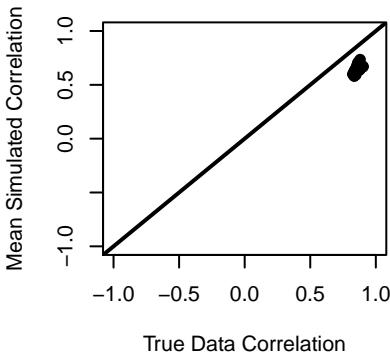
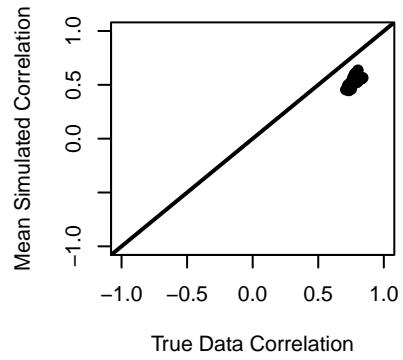
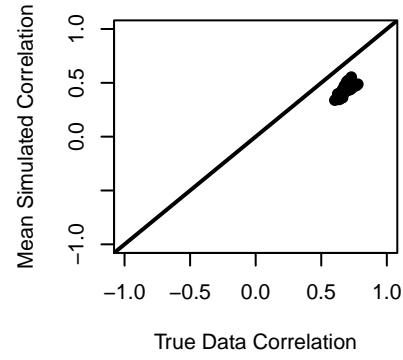
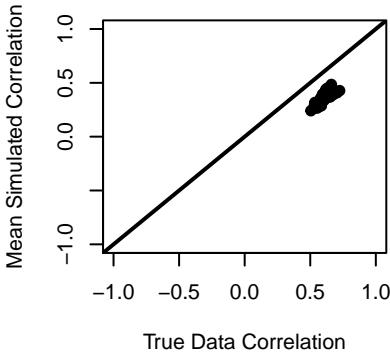
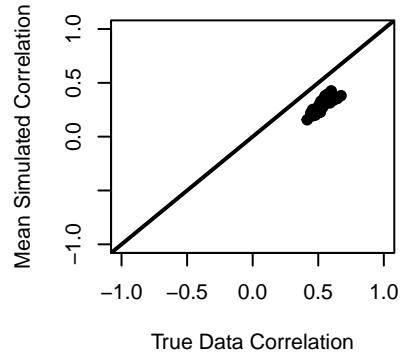
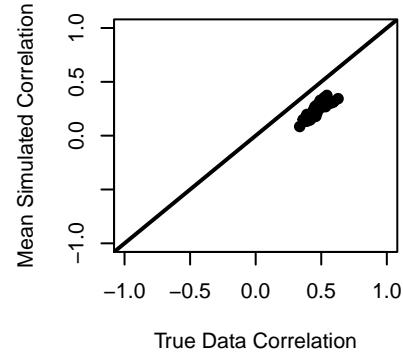
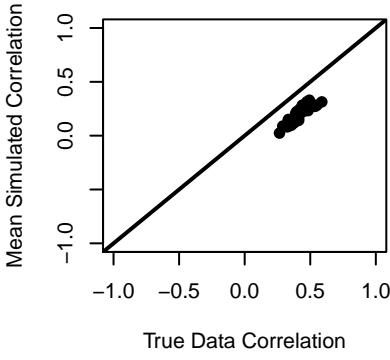
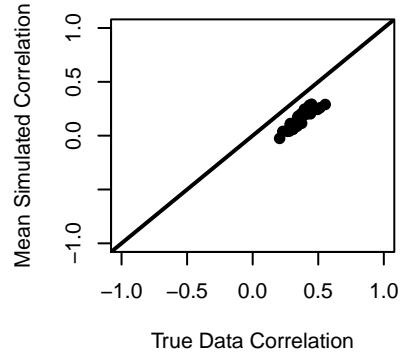


Cross Site Correlations – Wind

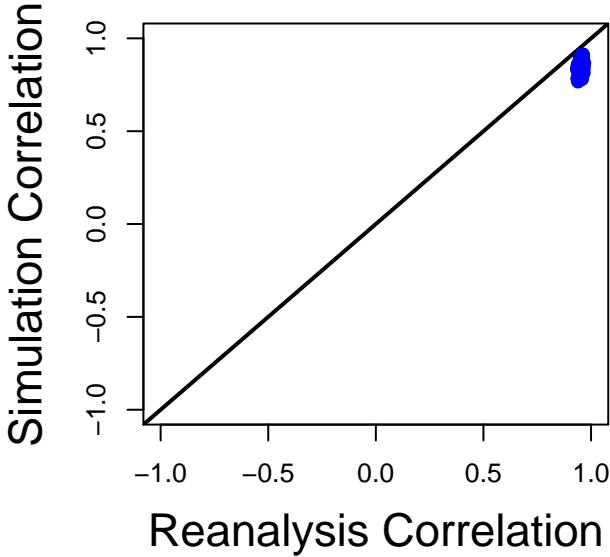


ACF – Single Random Site – Wind

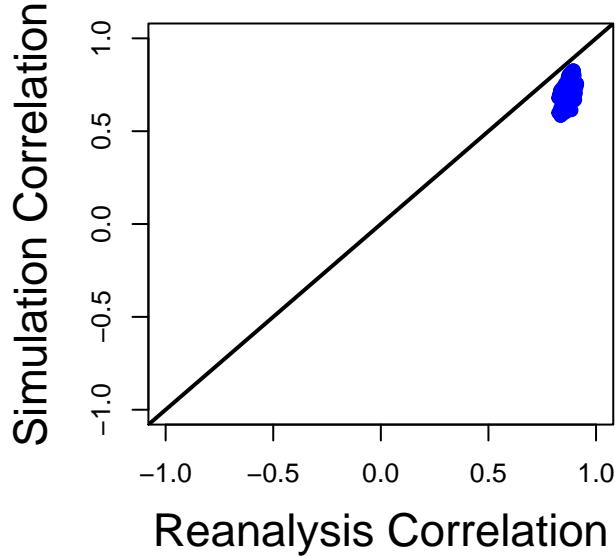


Lag-1 Correlations – Wind**Lag-2 Correlations – Wind****Lag-3 Correlations – Wind****Lag-4 Correlations – Wind****Lag-5 Correlations – Wind****Lag-6 Correlations – Wind****Lag-7 Correlations – Wind****Lag-8 Correlations – Wind****Lag-9 Correlations – Wind**

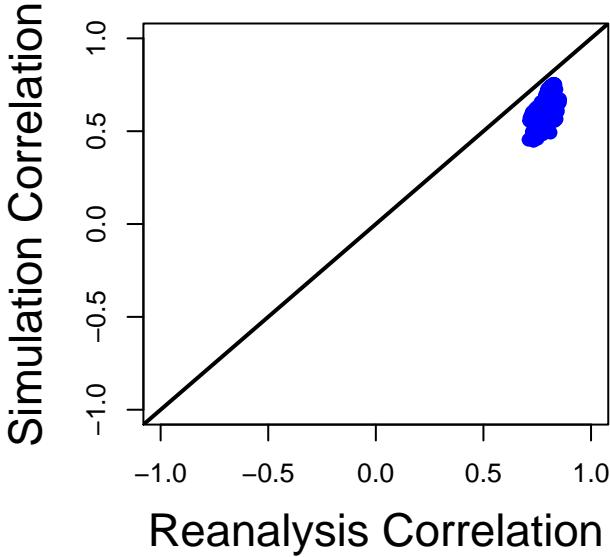
Lag-1 – Wind



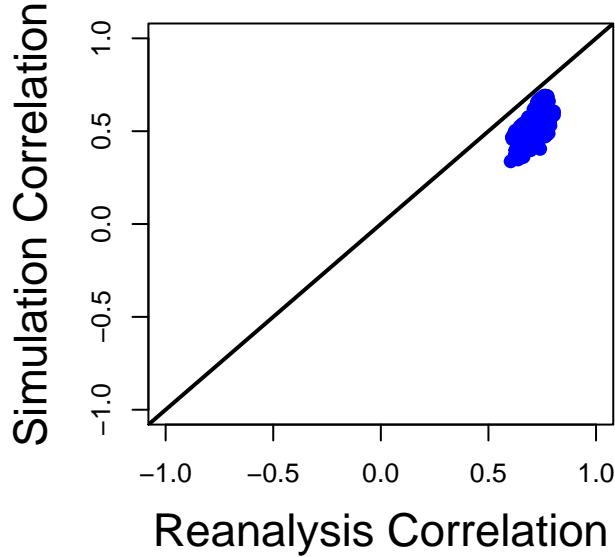
Lag-2 – Wind



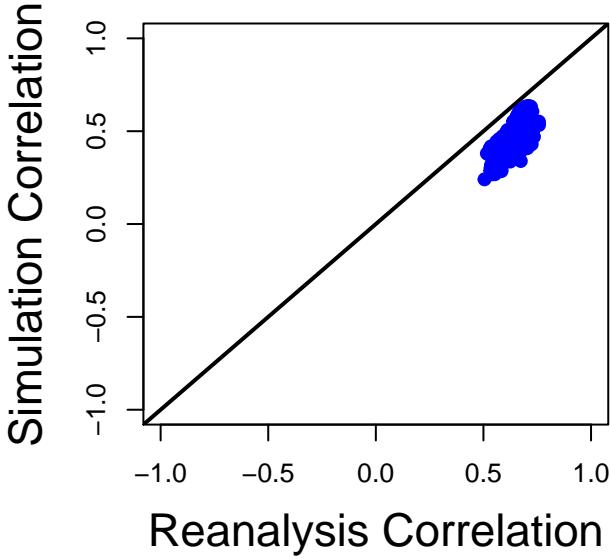
Lag-3 – Wind



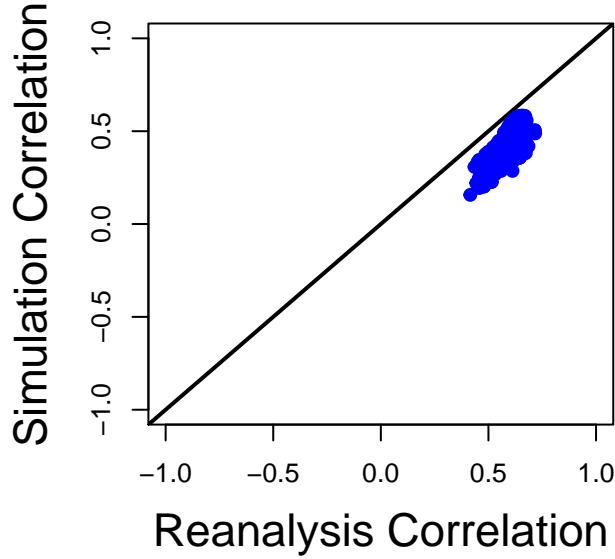
Lag-4 – Wind



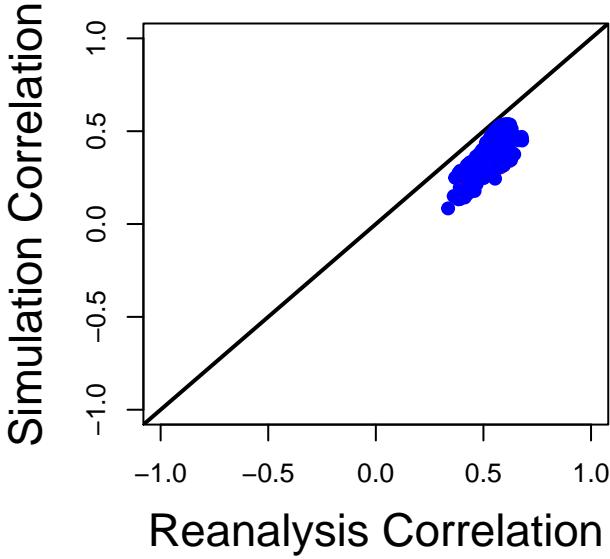
Lag-5 – Wind



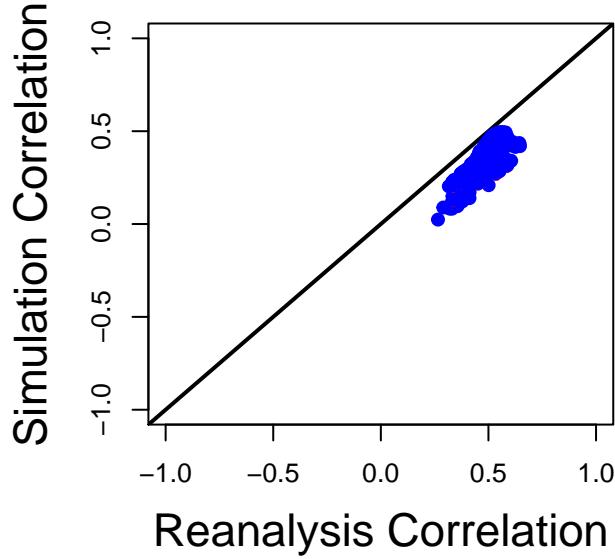
Lag-6 – Wind



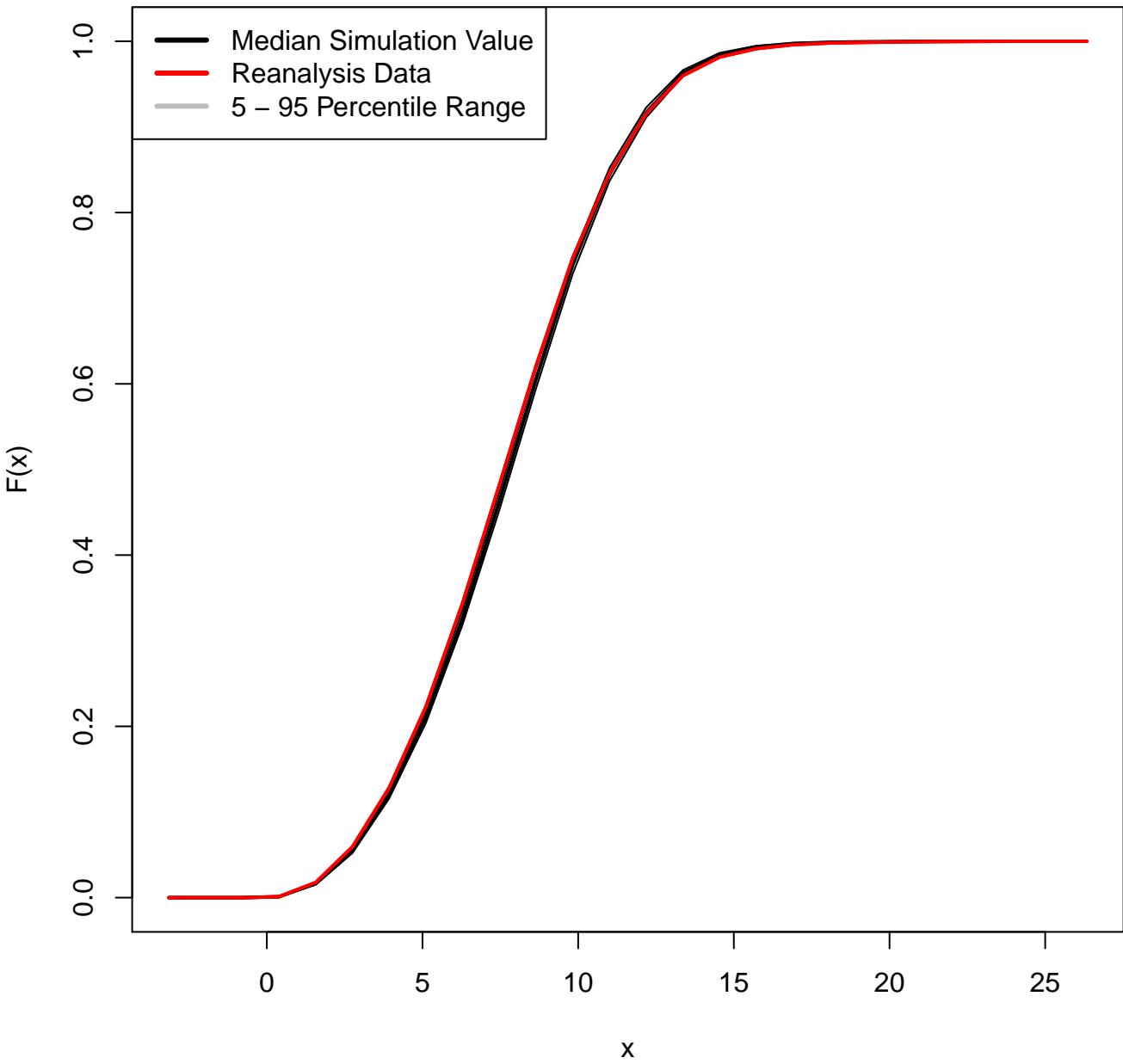
Lag-7 – Wind



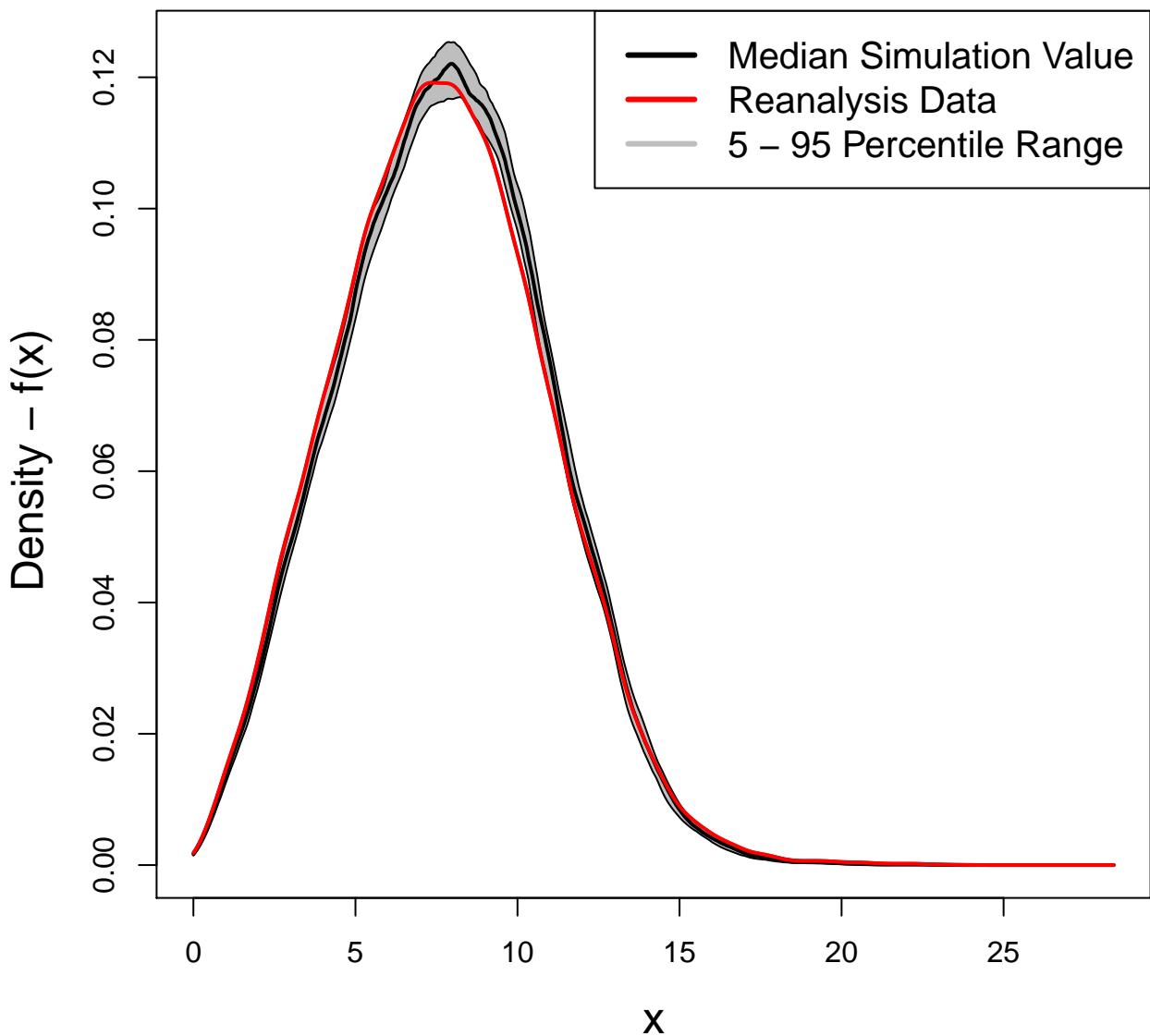
Lag-8 – Wind

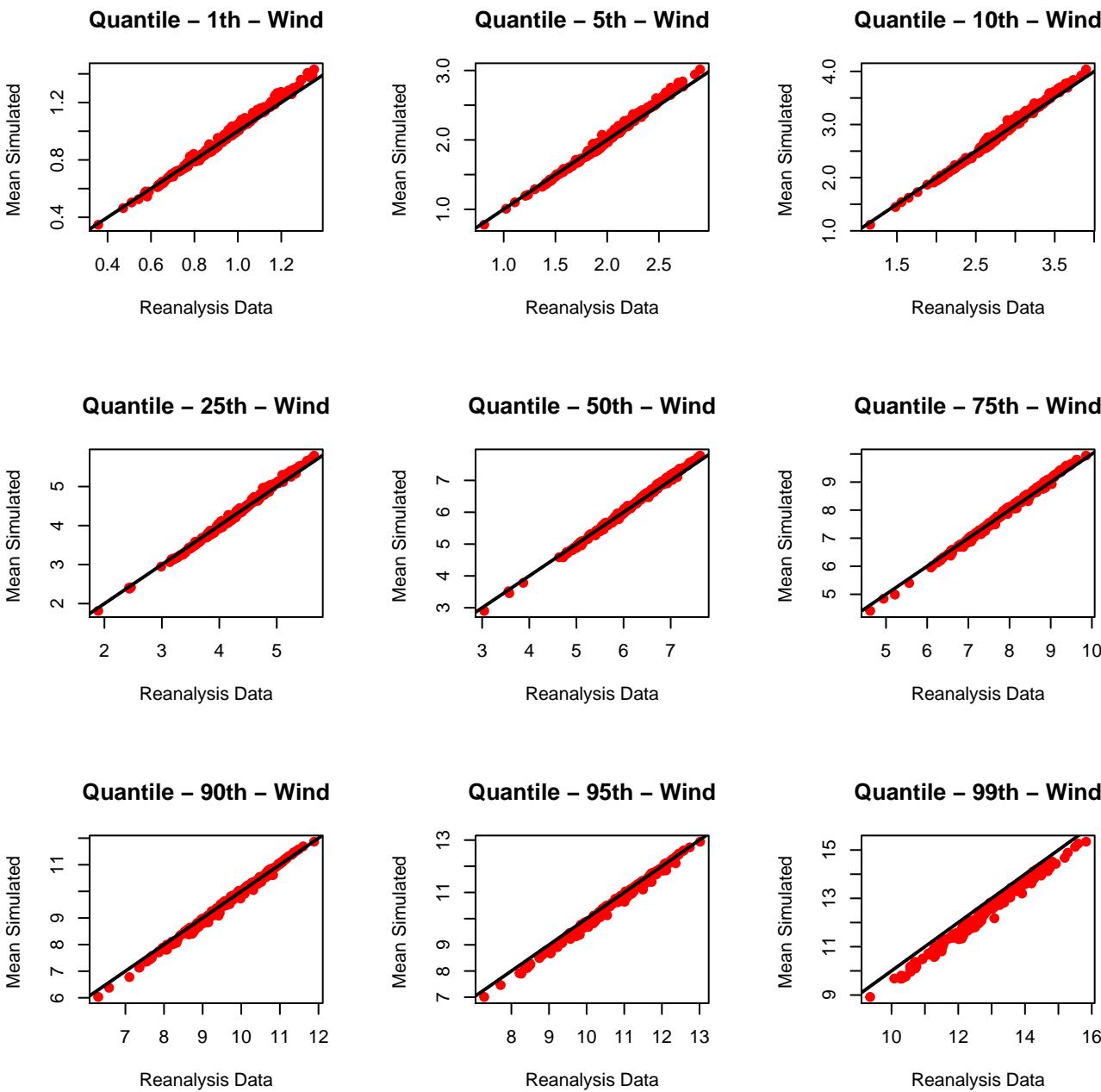


True vs Simulated CDF for Single Site – Wind

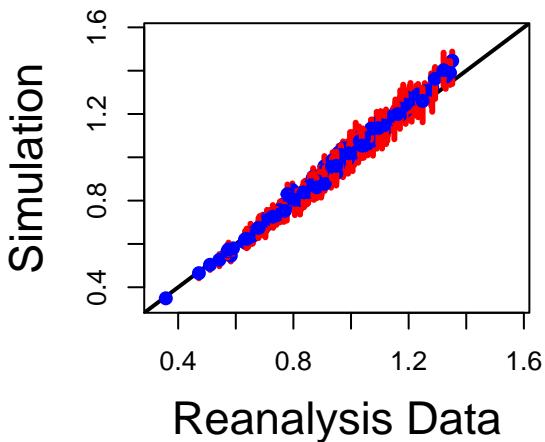


PDF at a single site – Wind

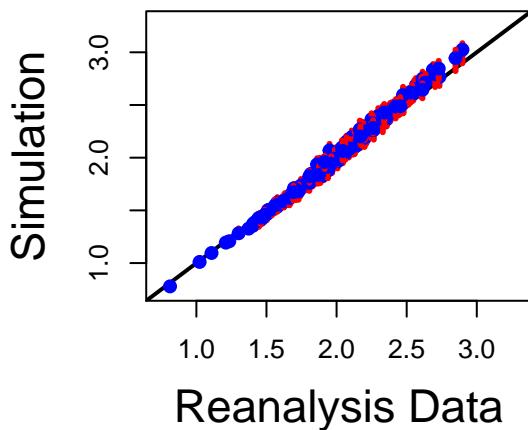




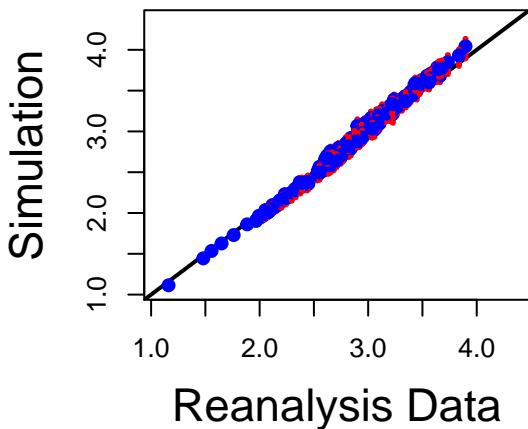
1th Quantile – Wind



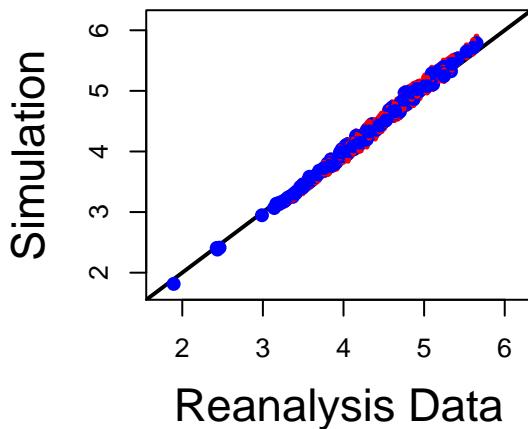
5th Quantile – Wind



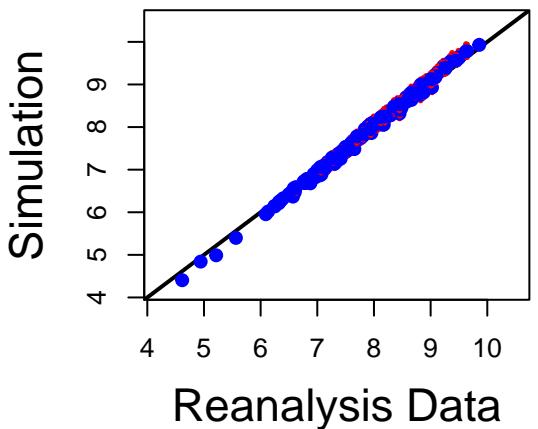
10th Quantile – Wind



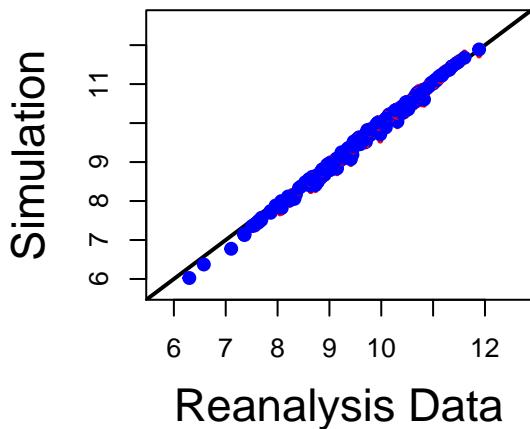
25th Quantile – Wind



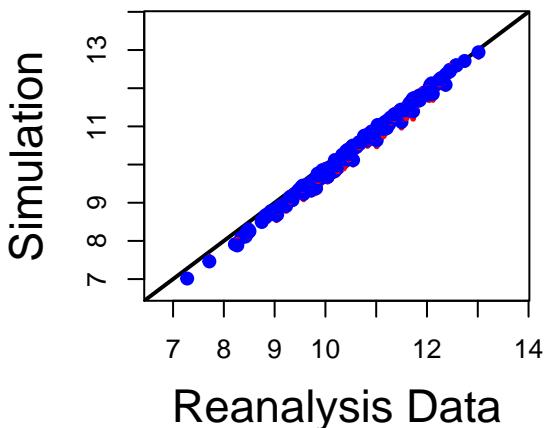
75th Quantile – Wind



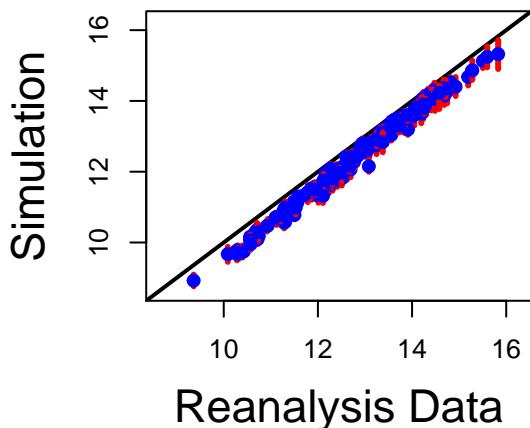
90th Quantile – Wind



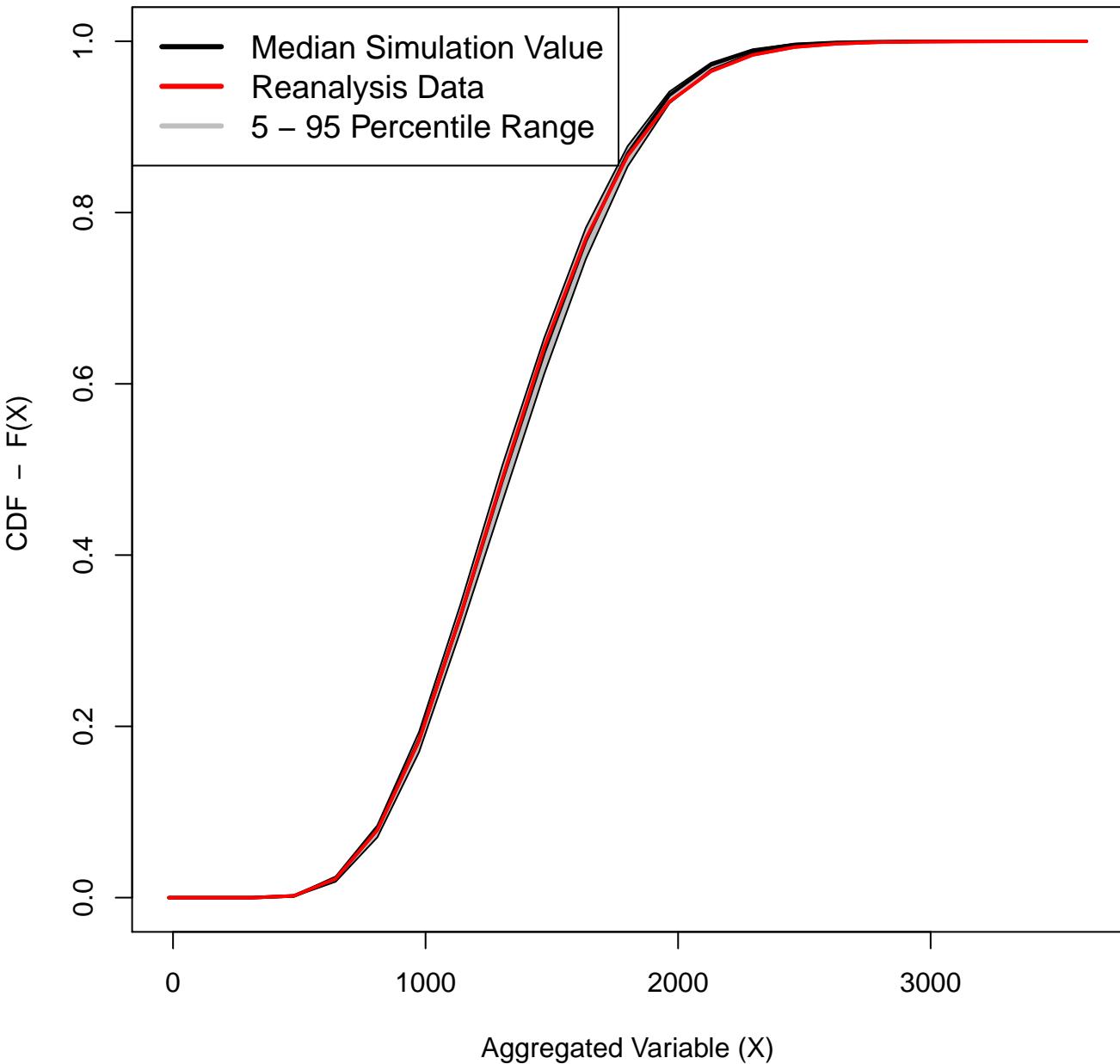
95th Quantile – Wind



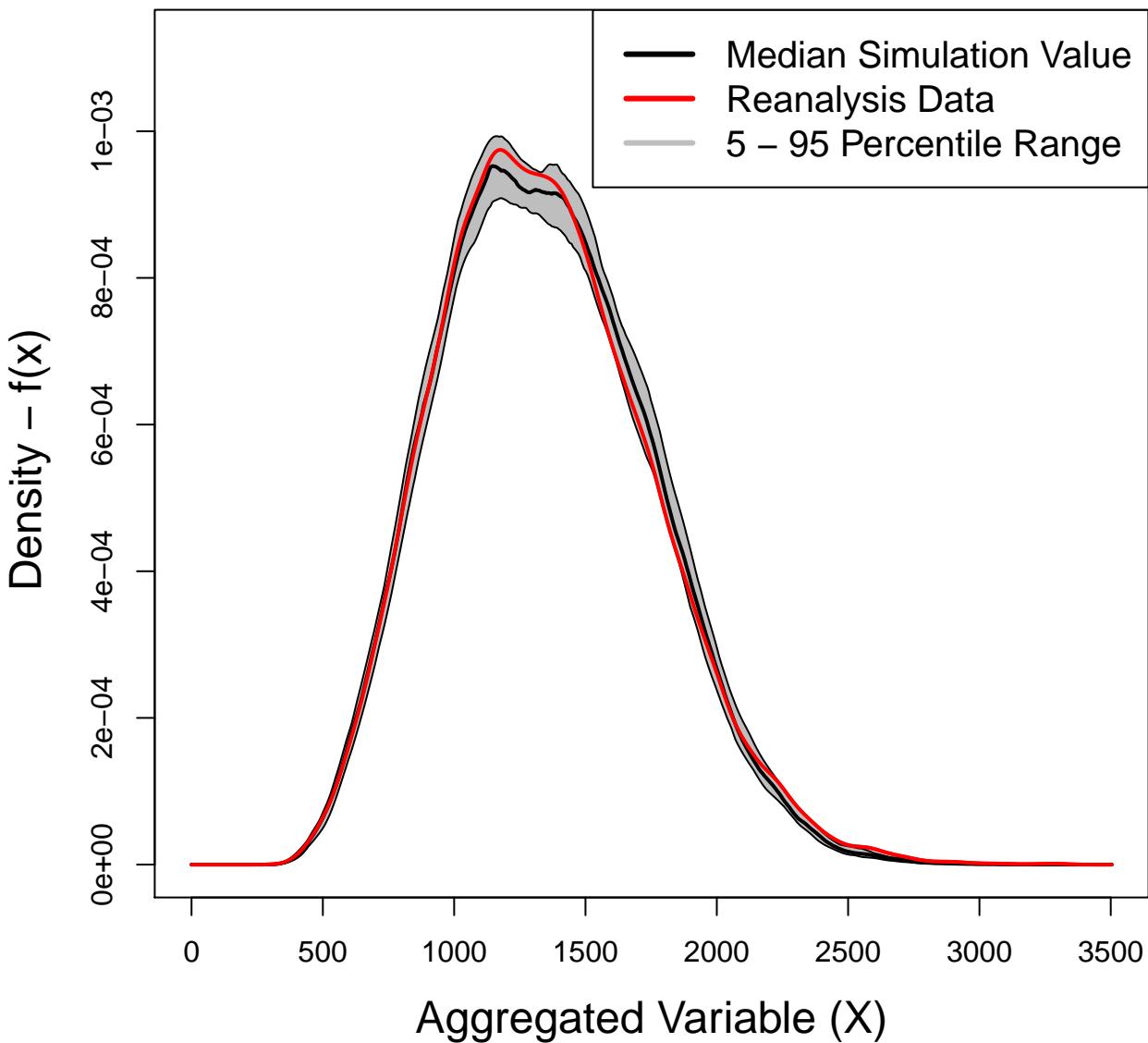
99th Quantile – Wind



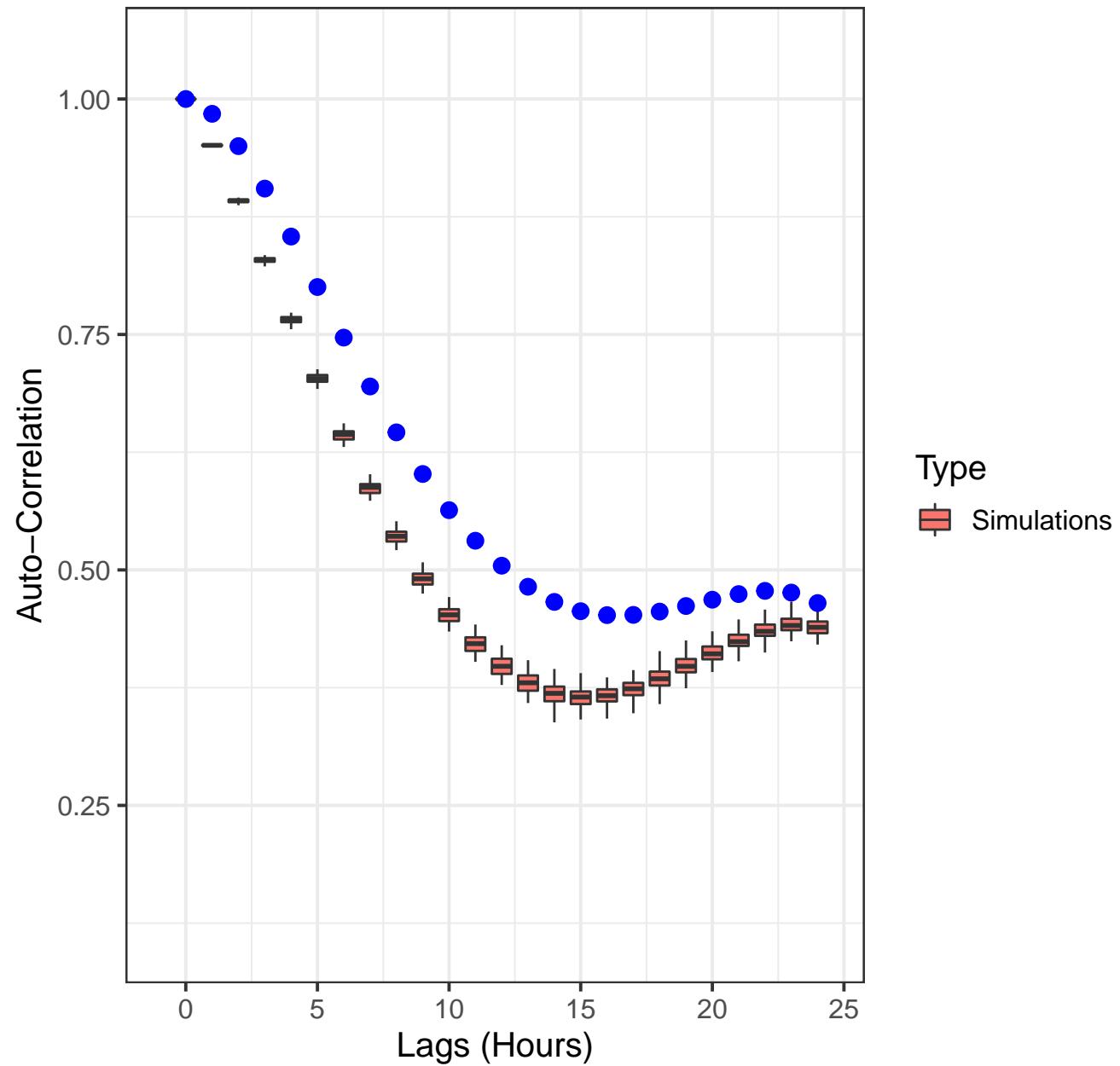
Simulated CDF for Entire Field – Wind

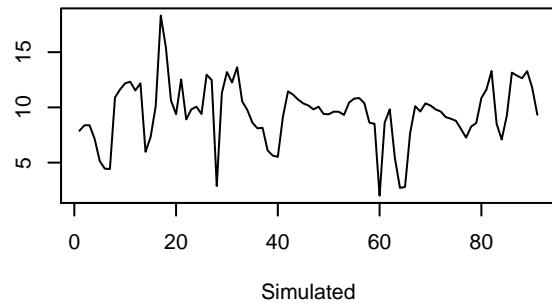
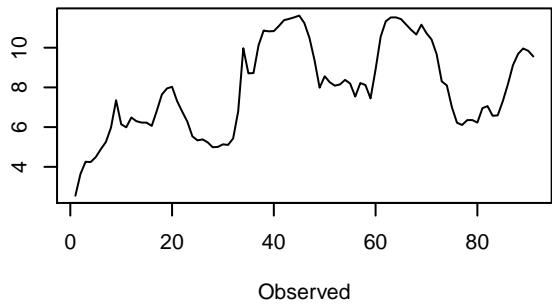
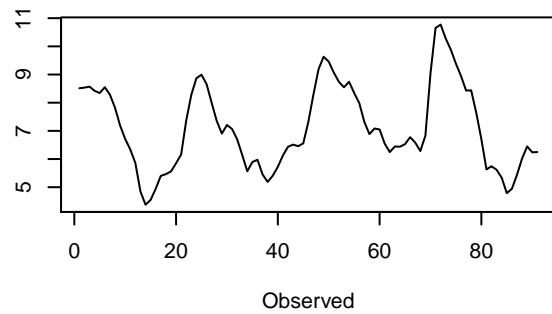
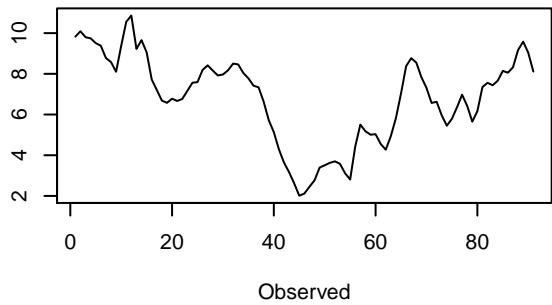
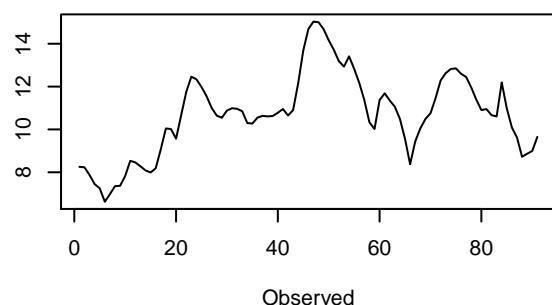
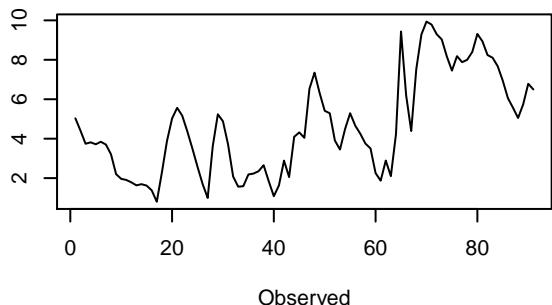


Simulated PDF for Entire Field – Wind

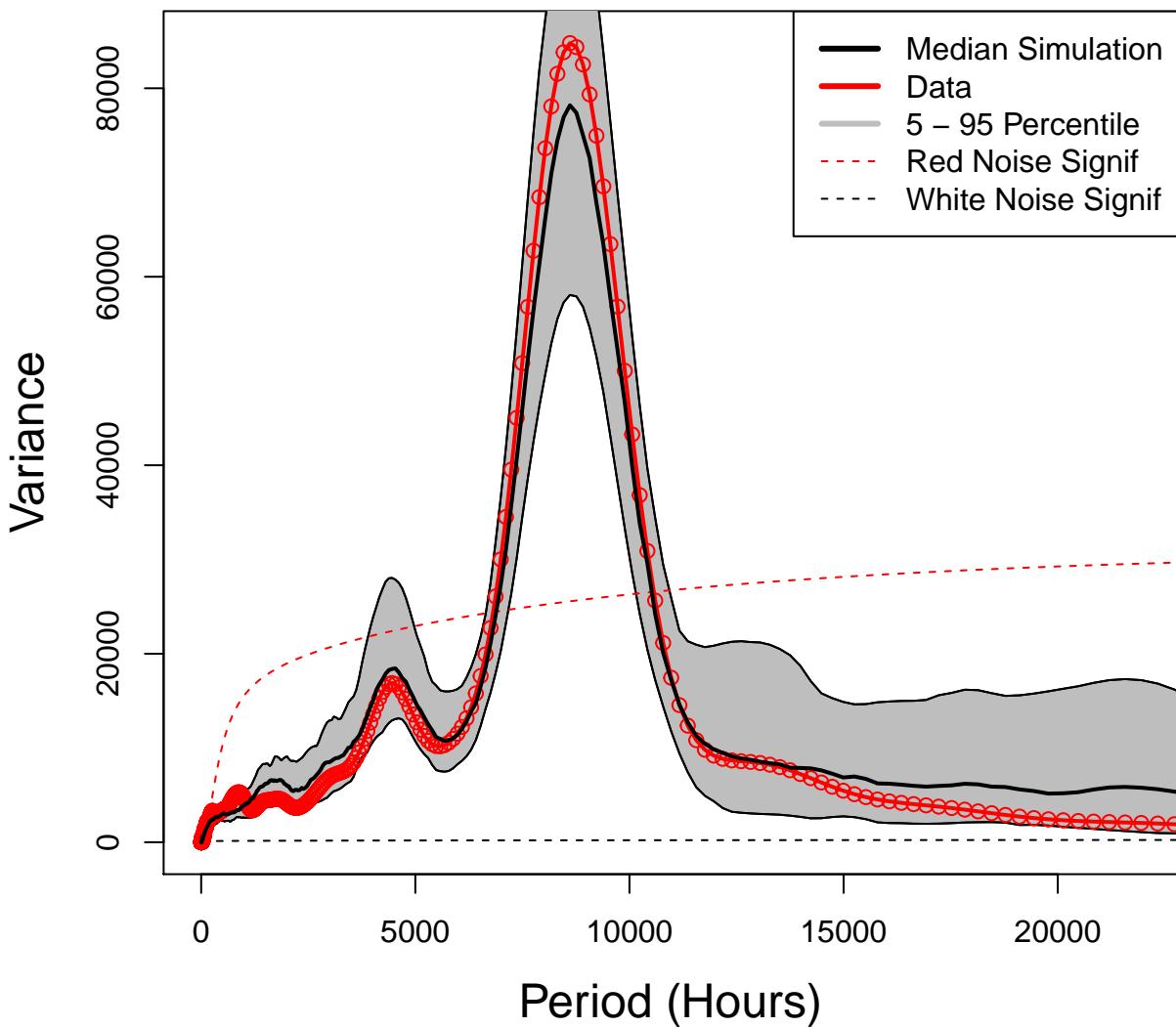


ACF – Aggregated Field – Wind

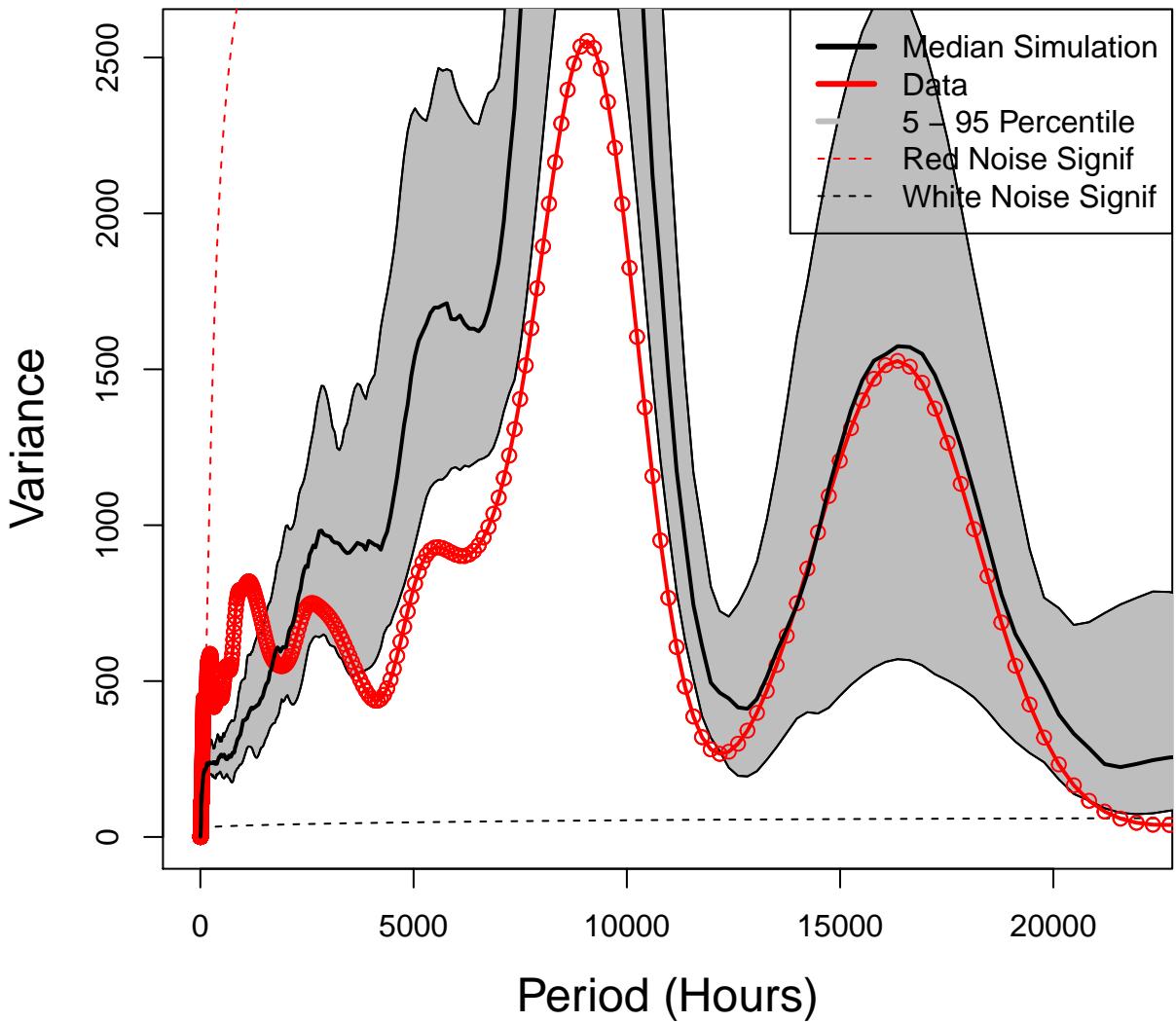




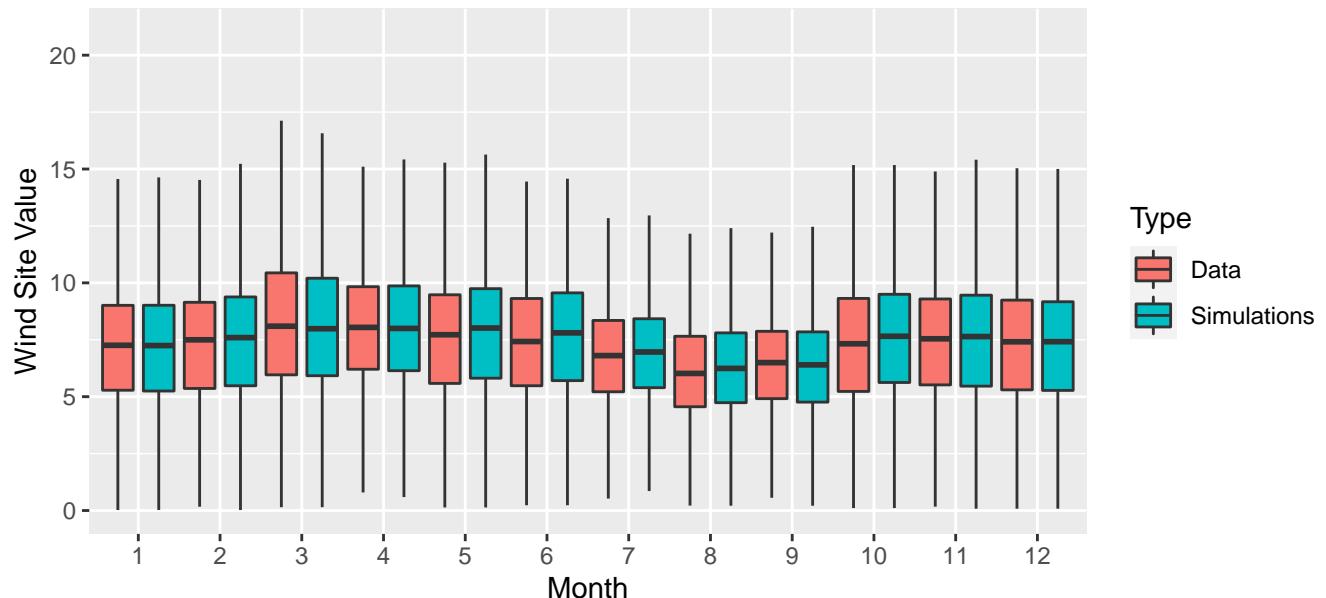
Global Wavelet Spectrum PC – 1 Wind



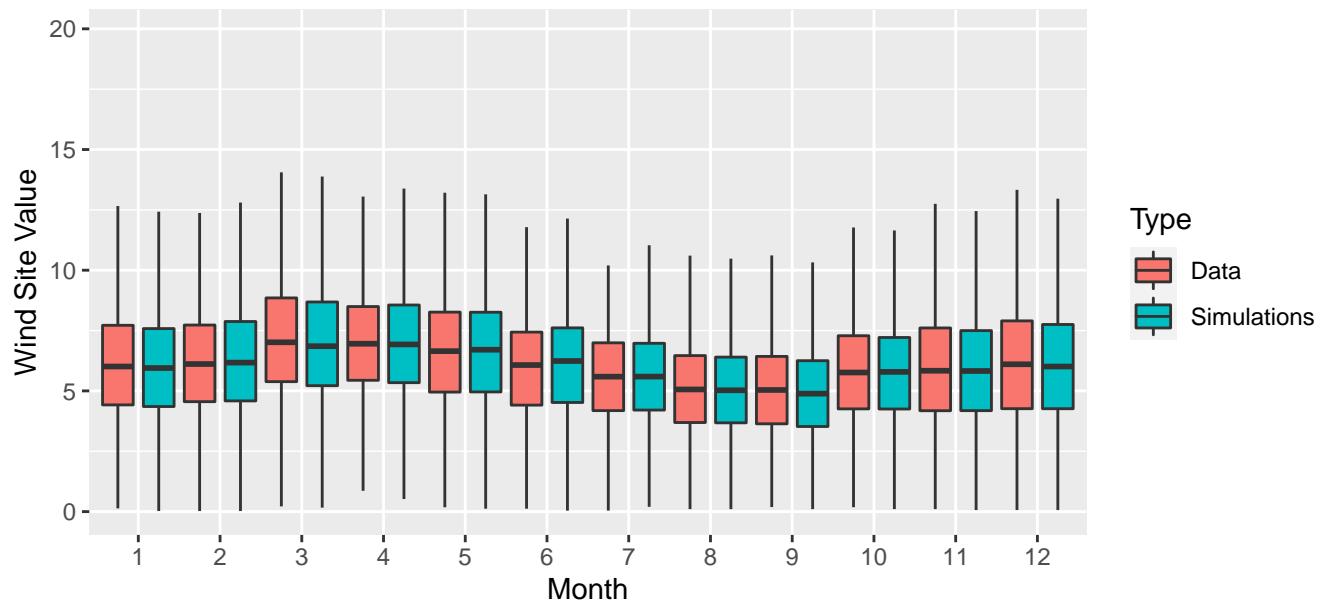
Global Wavelet Spectrum PC – 2 Wind



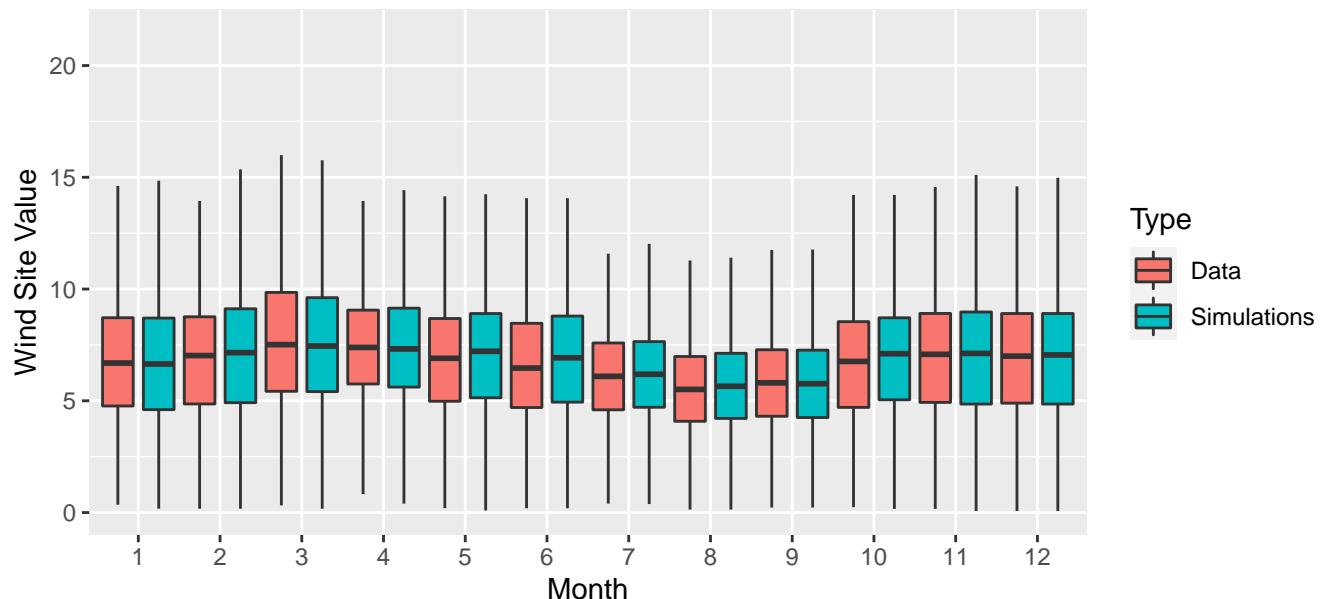
Monthly Wind for Site 58



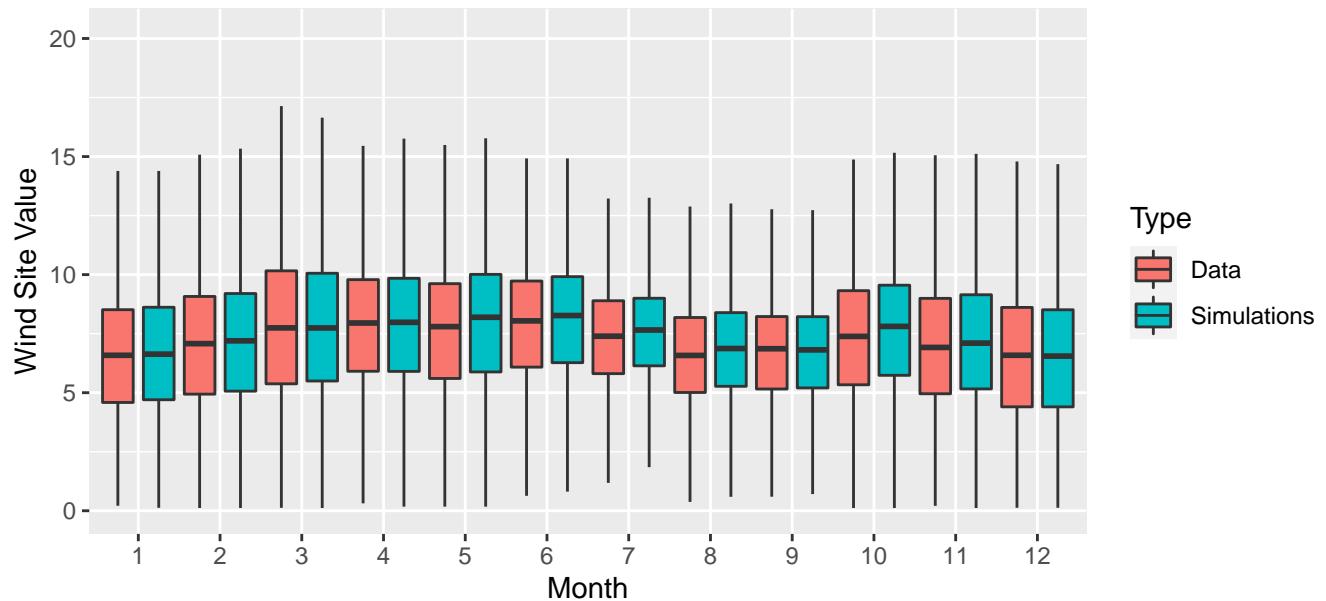
Monthly Wind for Site 147



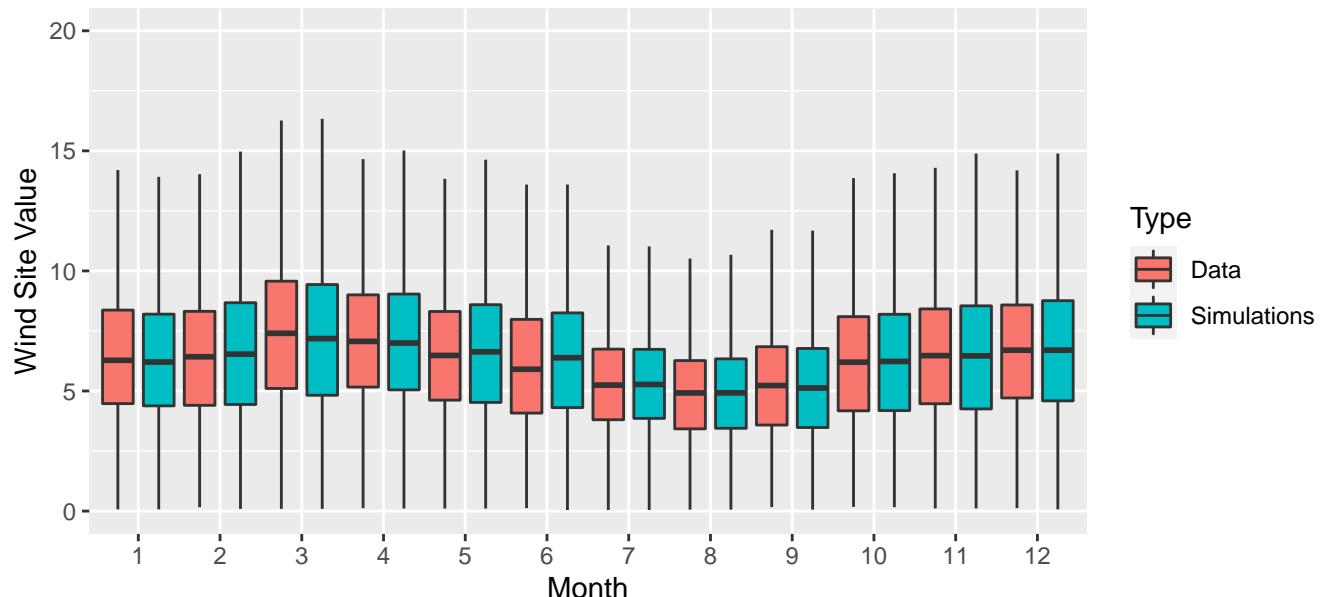
Monthly Wind for Site 88



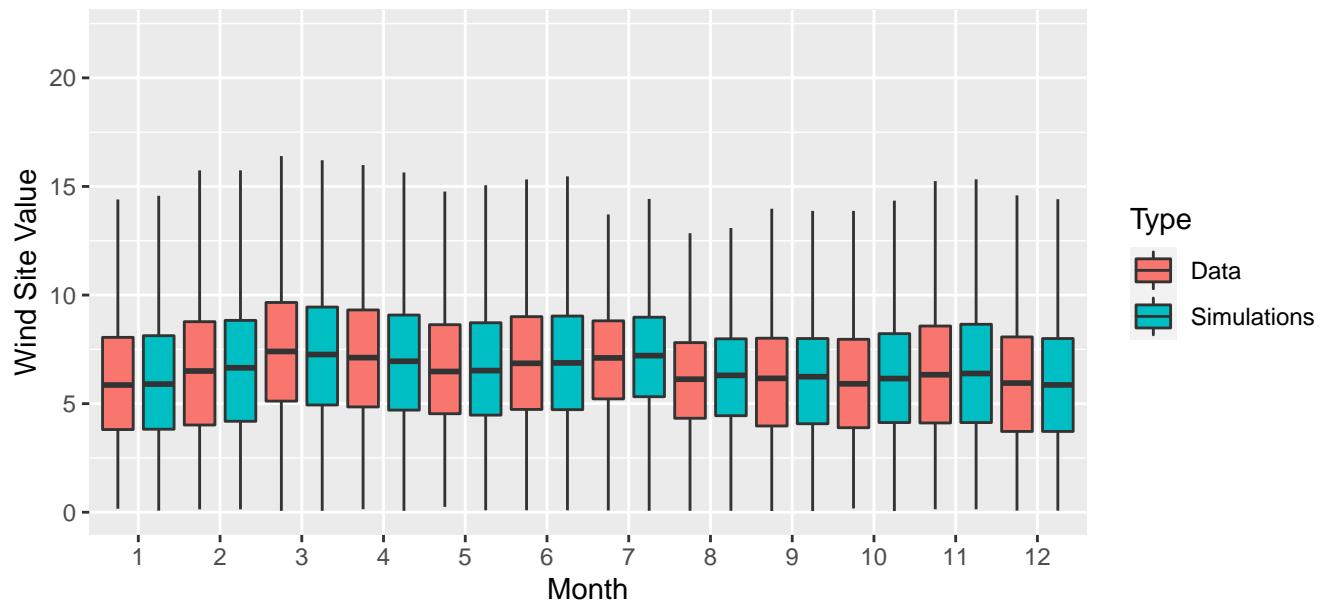
Monthly Wind for Site 46



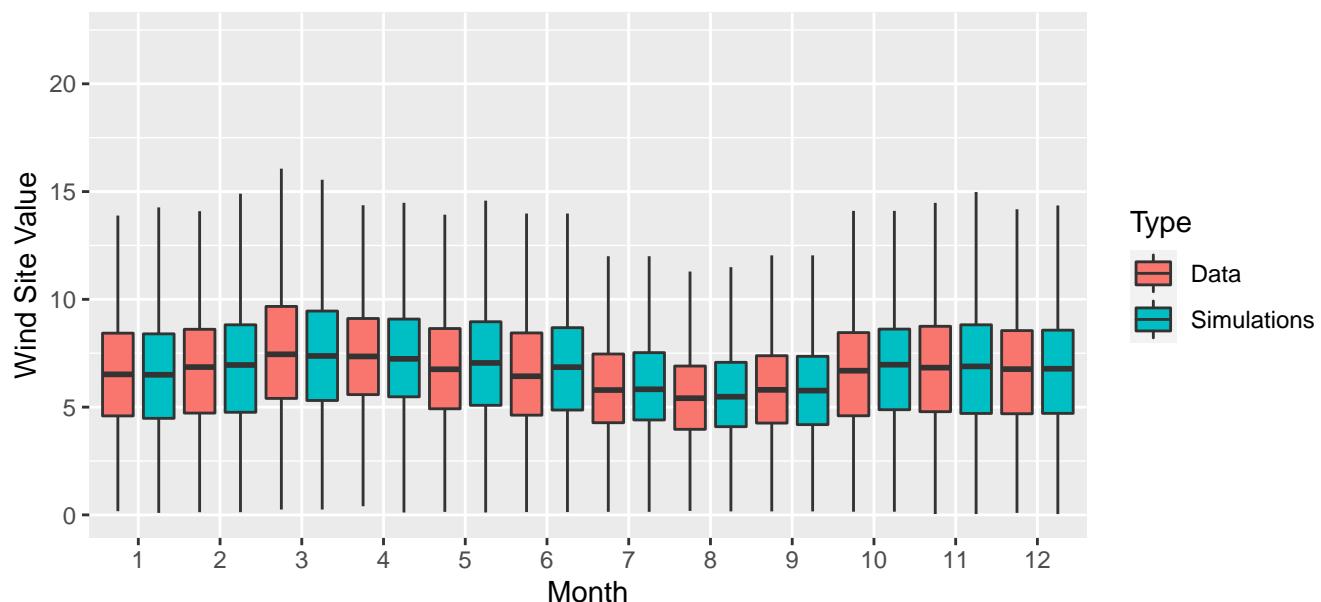
Monthly Wind for Site 177



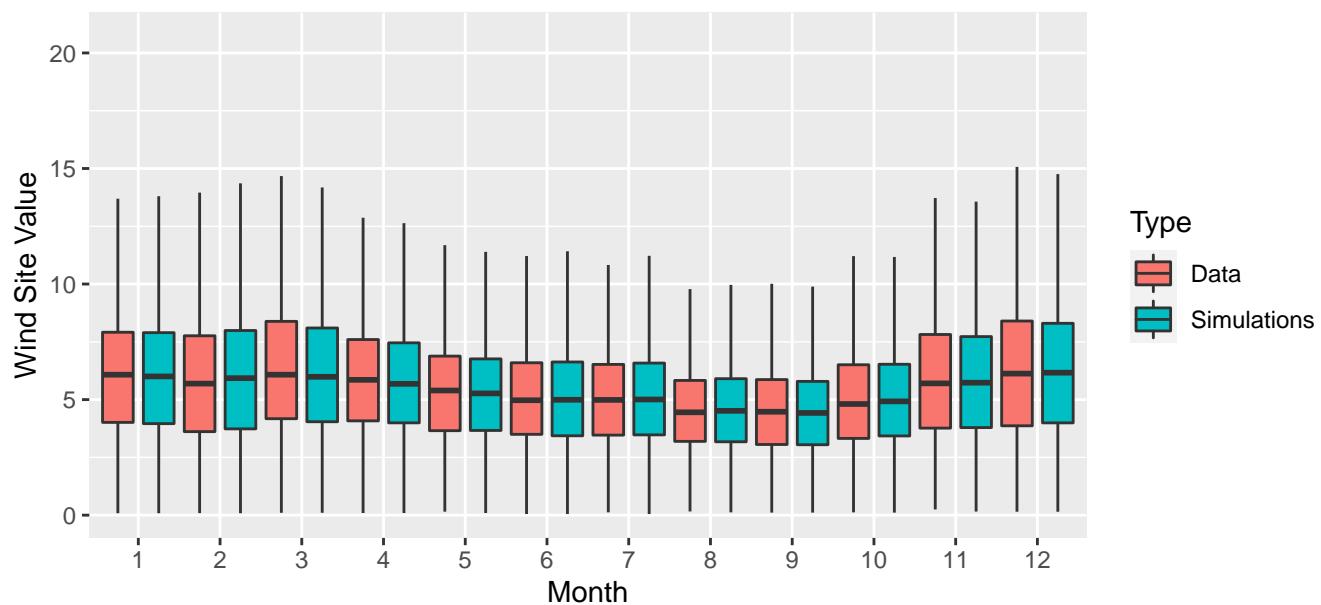
Monthly Wind for Site 21



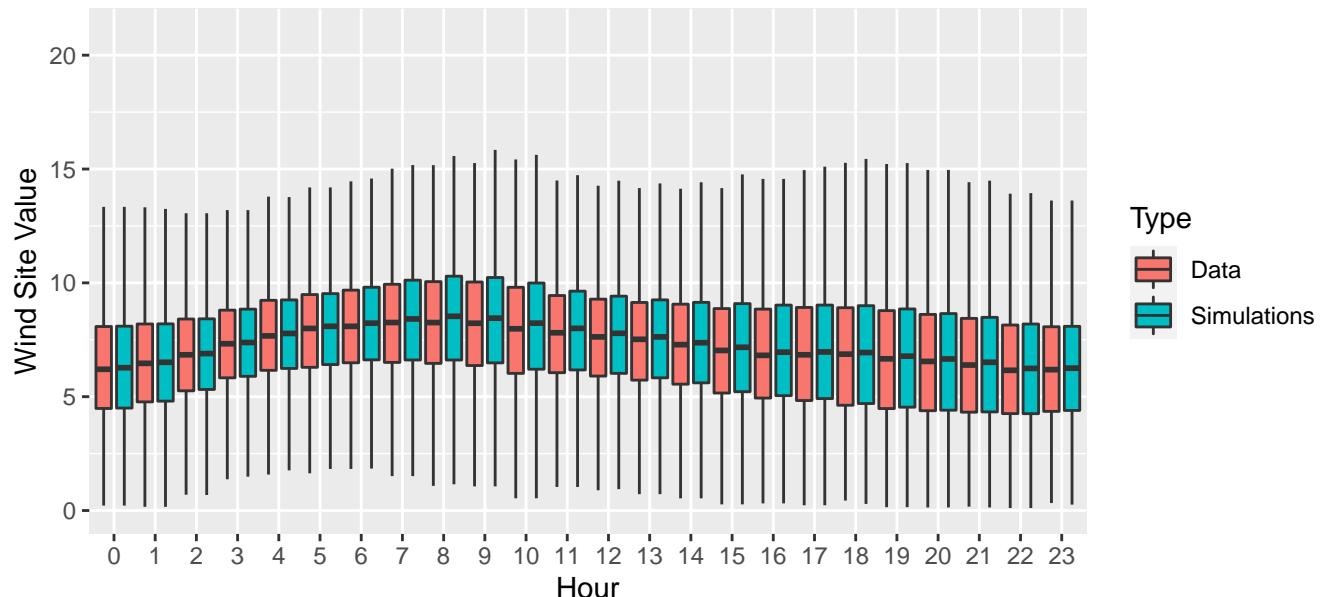
Monthly Wind for Site 89



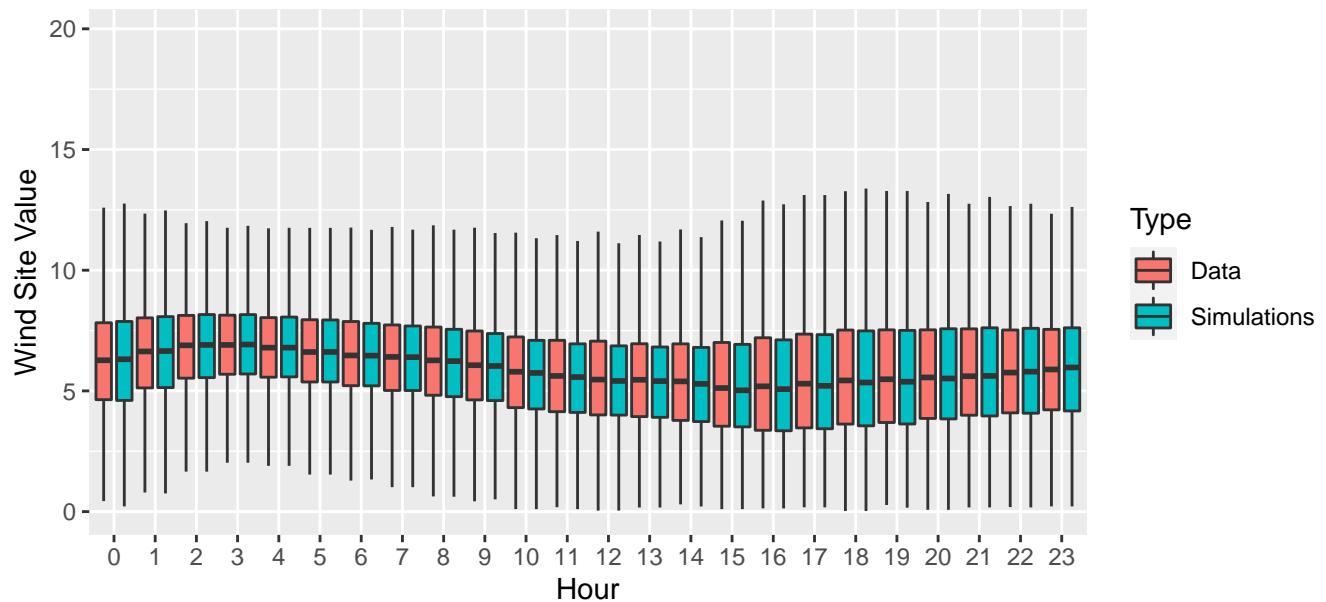
Monthly Wind for Site 14



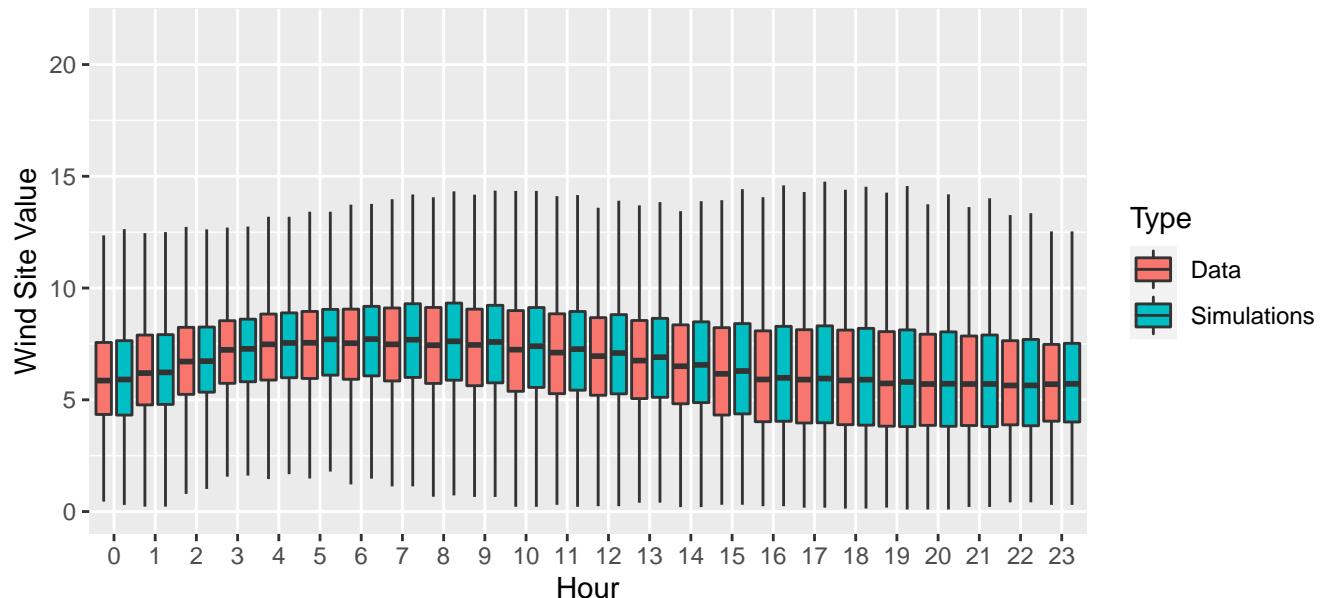
Hourly Wind for Site 58



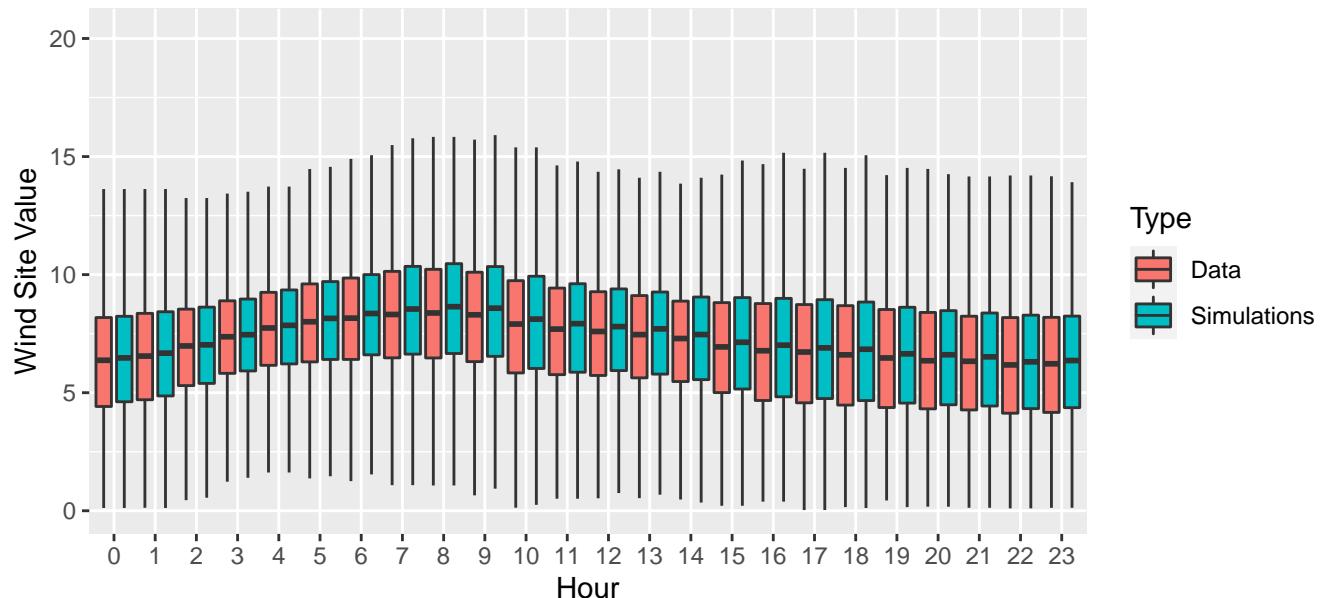
Hourly Wind for Site 147



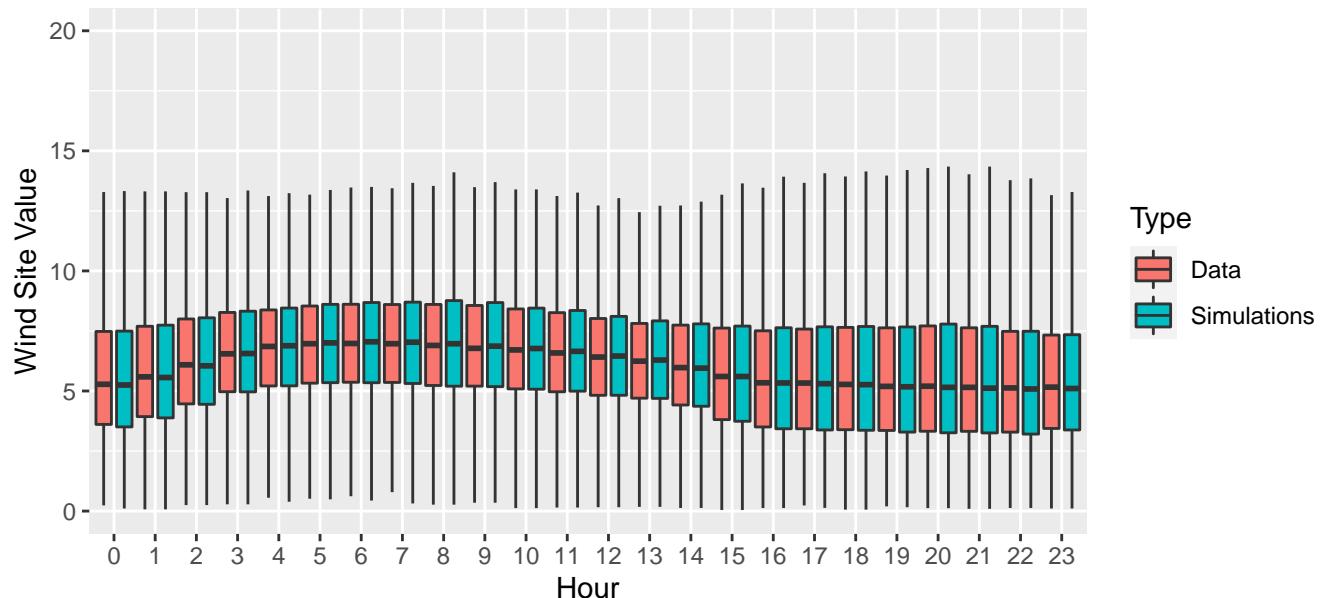
Hourly Wind for Site 88



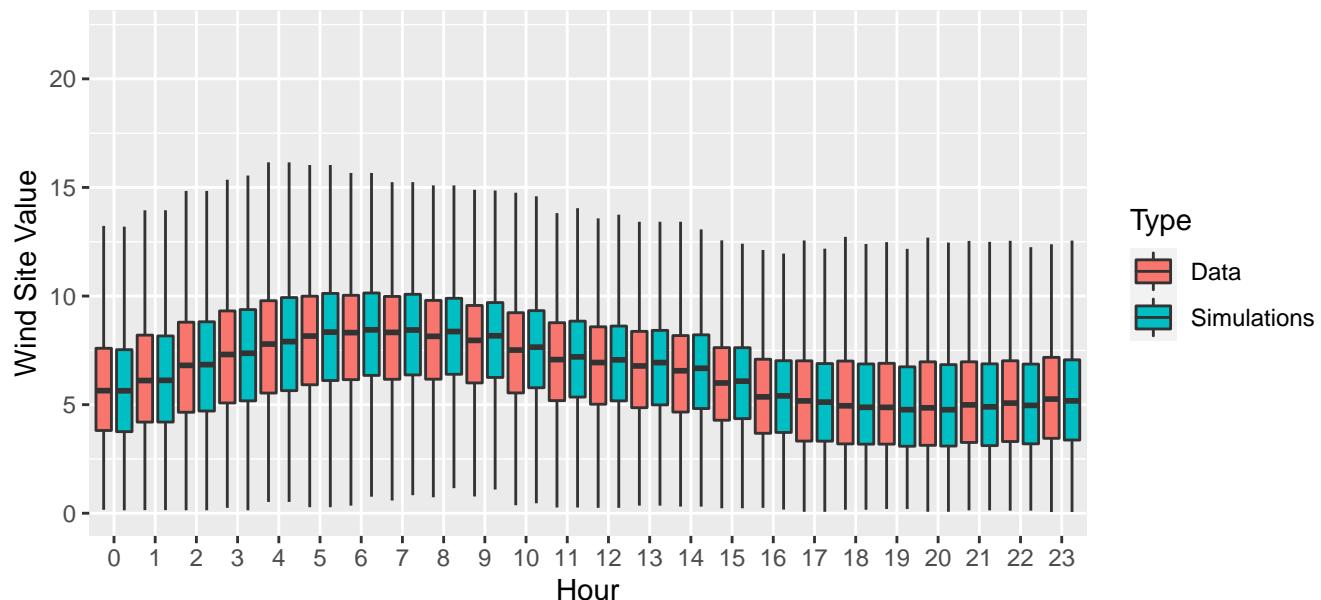
Hourly Wind for Site 46



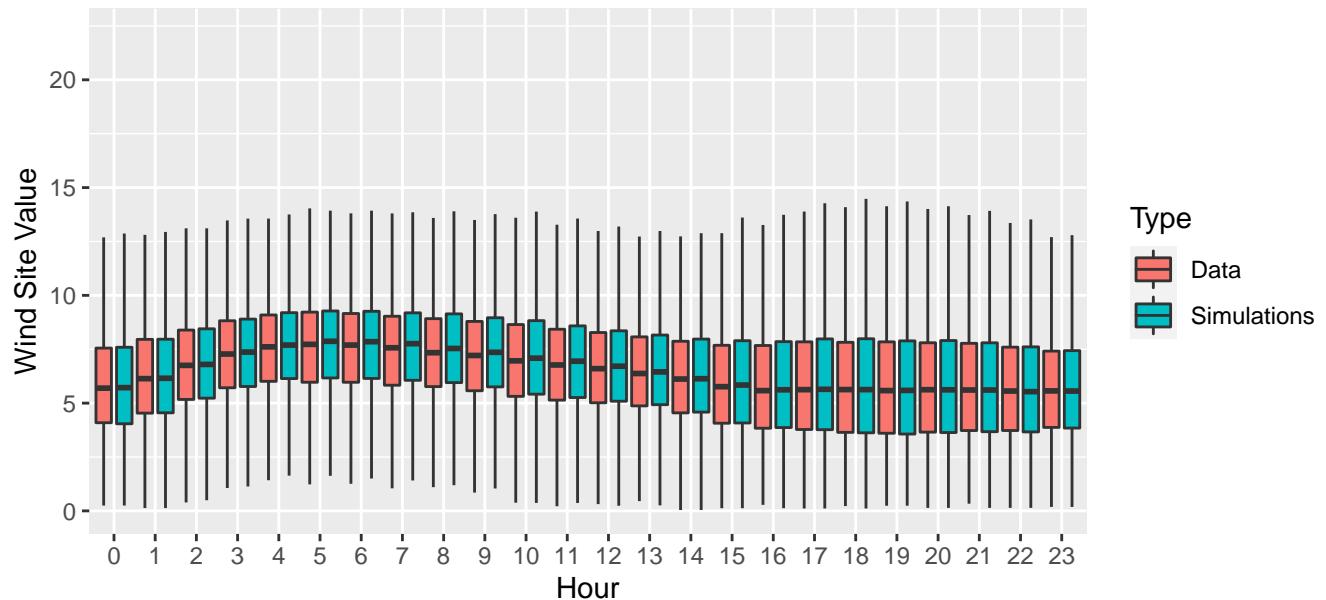
Hourly Wind for Site 177



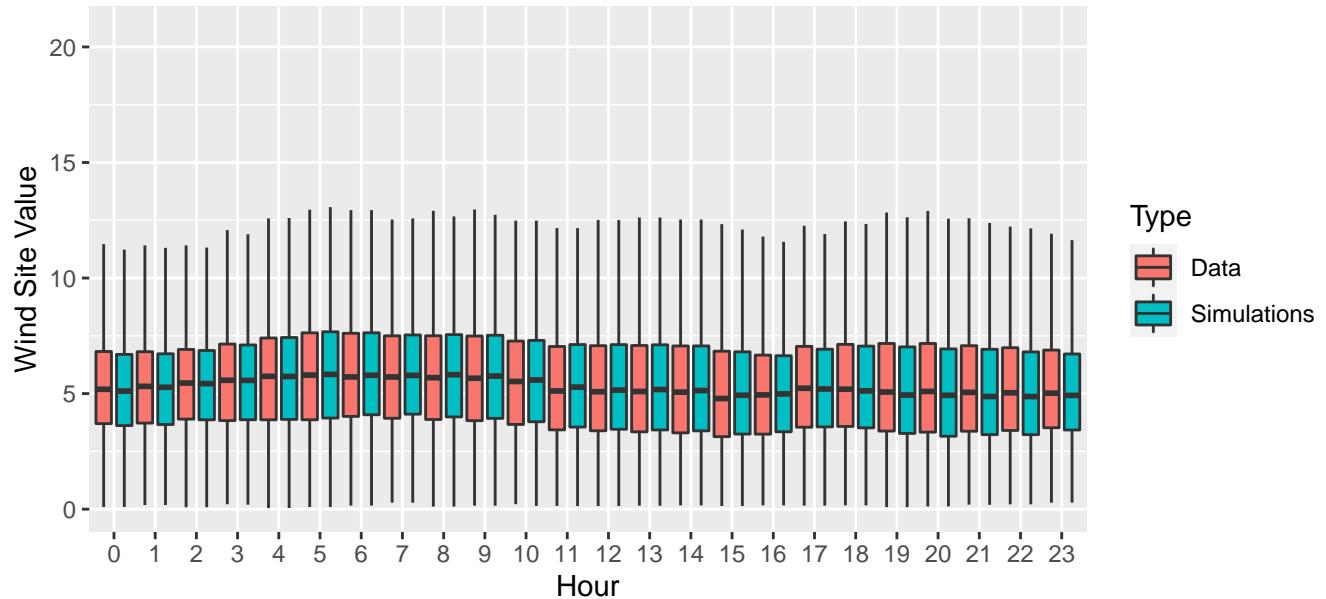
Hourly Wind for Site 21



Hourly Wind for Site 89

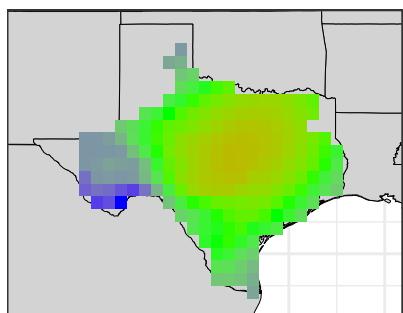


Hourly Wind for Site 14

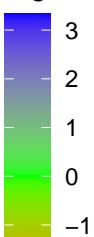


Data PC-1 Wind

Fractional Variance – 51%

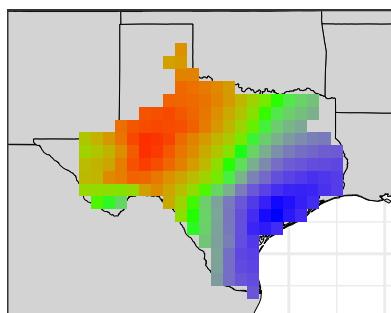


Eigenvectors

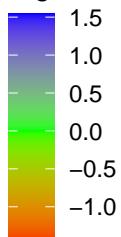


Data PC-1 Wind

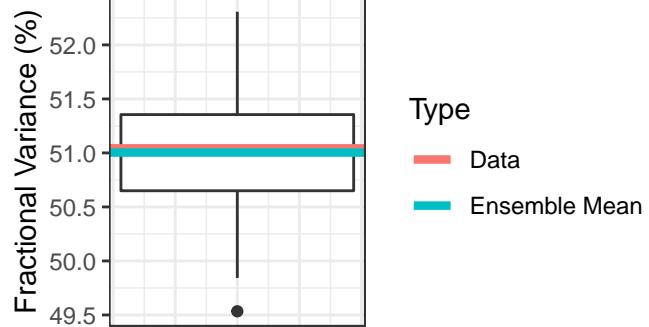
Fractional Variance – 13%



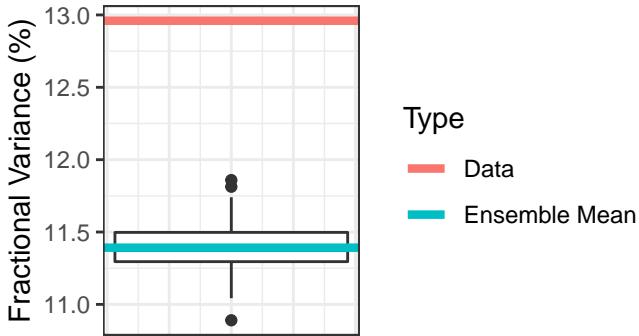
Eigenvectors



Simulated PC-1 Variance Wind

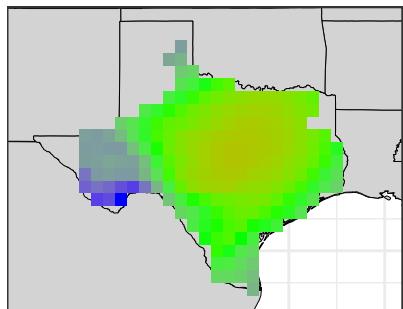


Simulated PC-2 Variance Wind

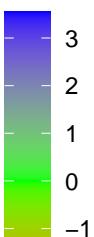


Ensemble Mean PC-1 Wind

Fractional Variance – 51%

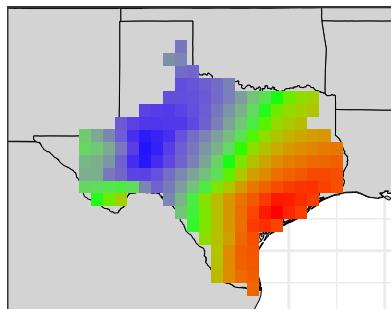


Eigenvectors

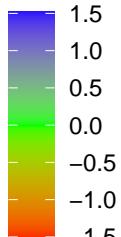


Ensemble Mean PC-2 Wind

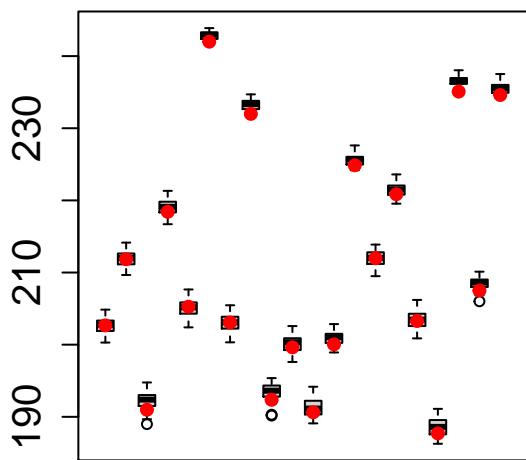
Fractional Variance – 11%



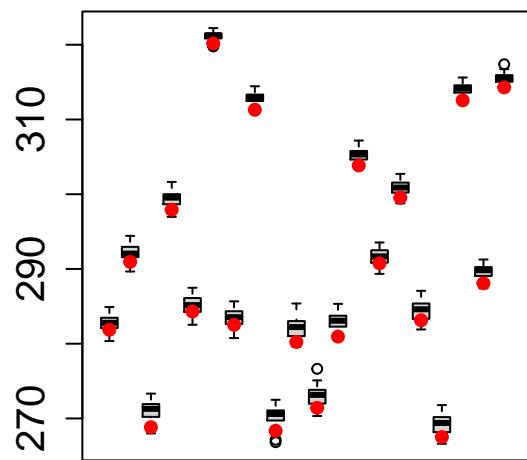
Eigenvectors



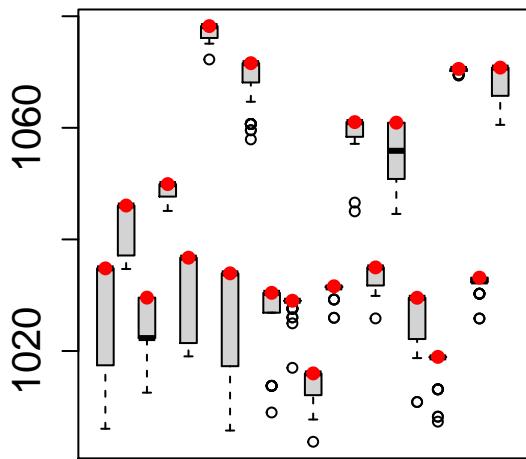
Mean – Solar



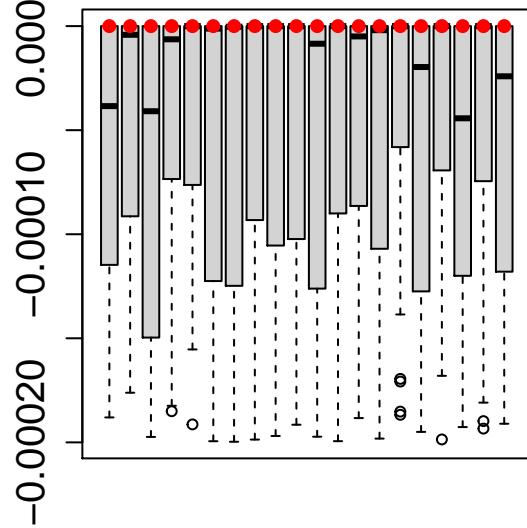
SD – Solar



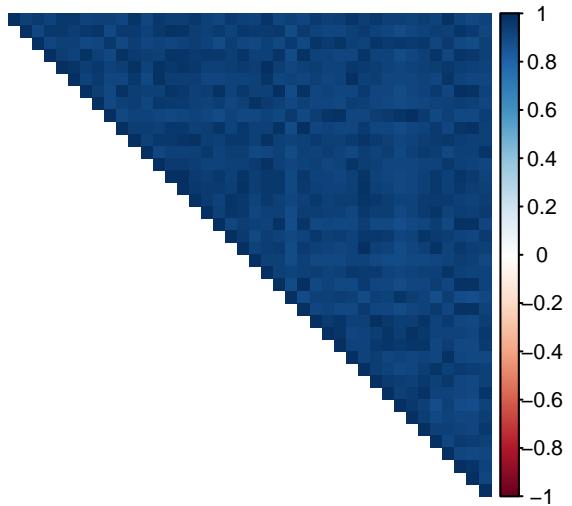
Maximum – Solar



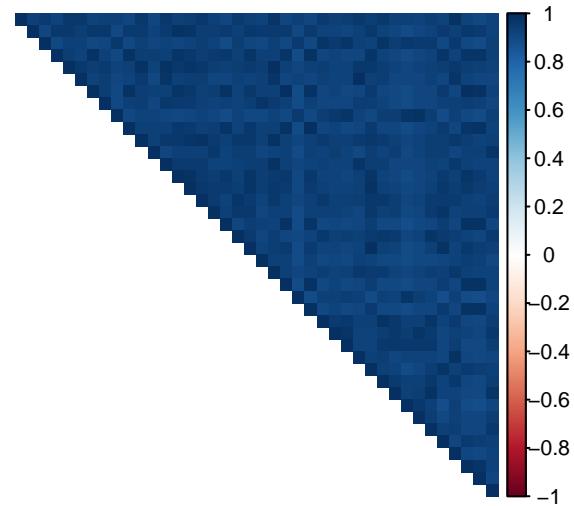
Minimum – Solar



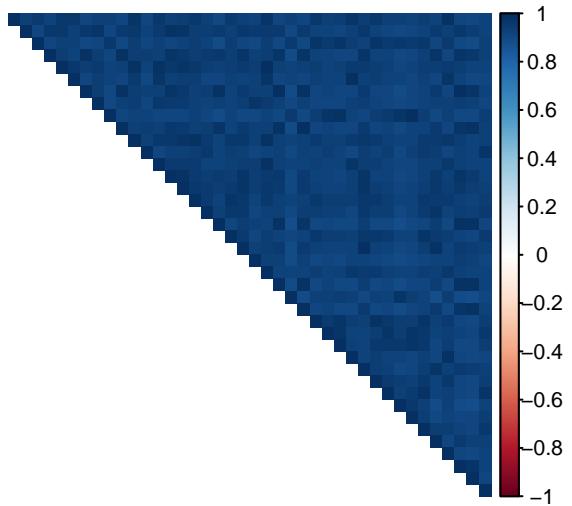
**Cross-Correlation
Data**



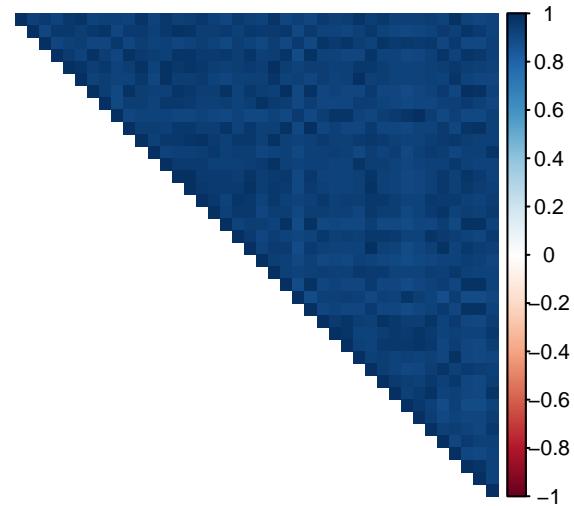
**Cross-Correlation
Simulation Run – 25**



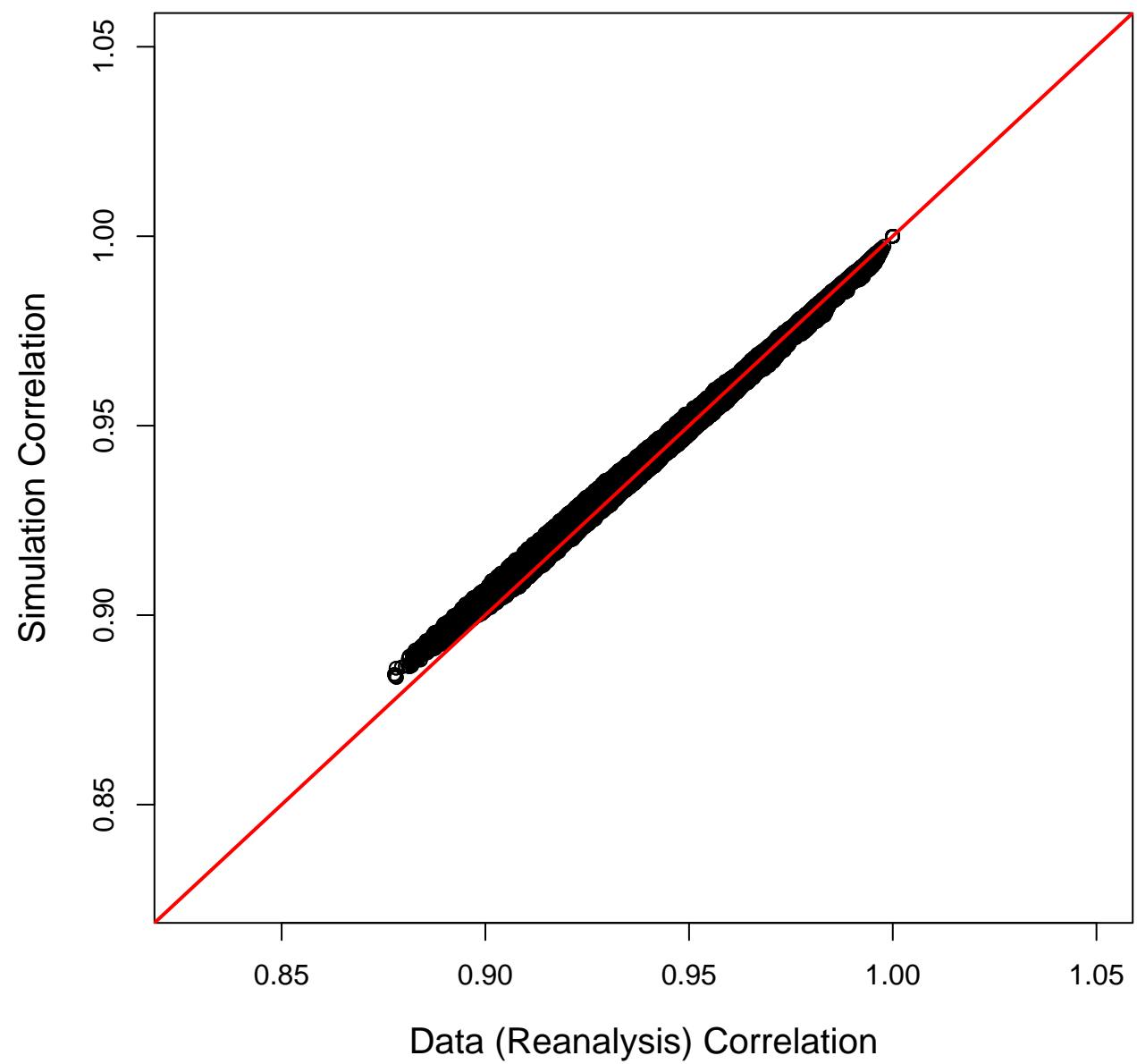
**Cross-Correlation
Simulation Run – 5**



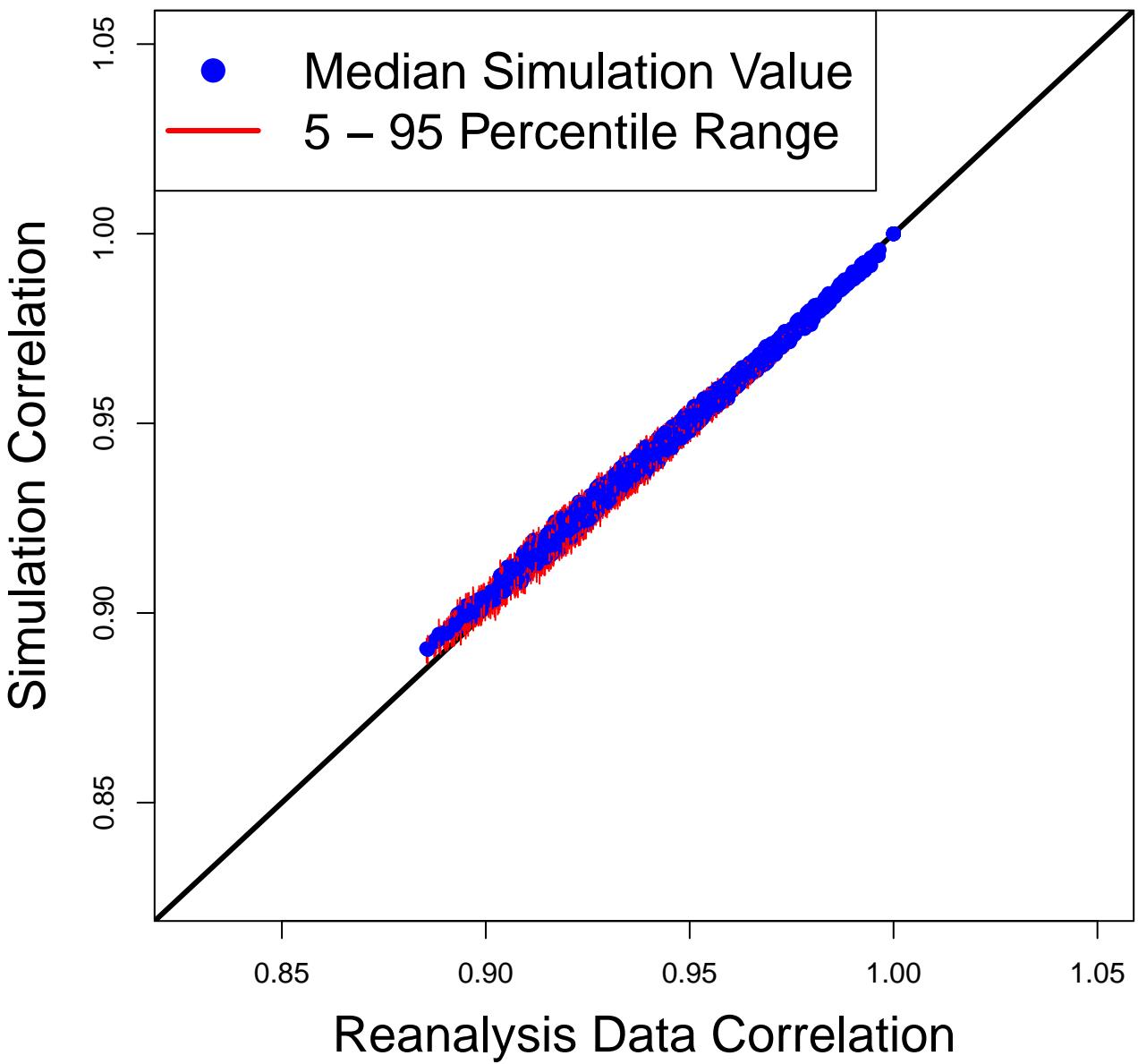
**Cross-Correlation
Simulation Run – 23**



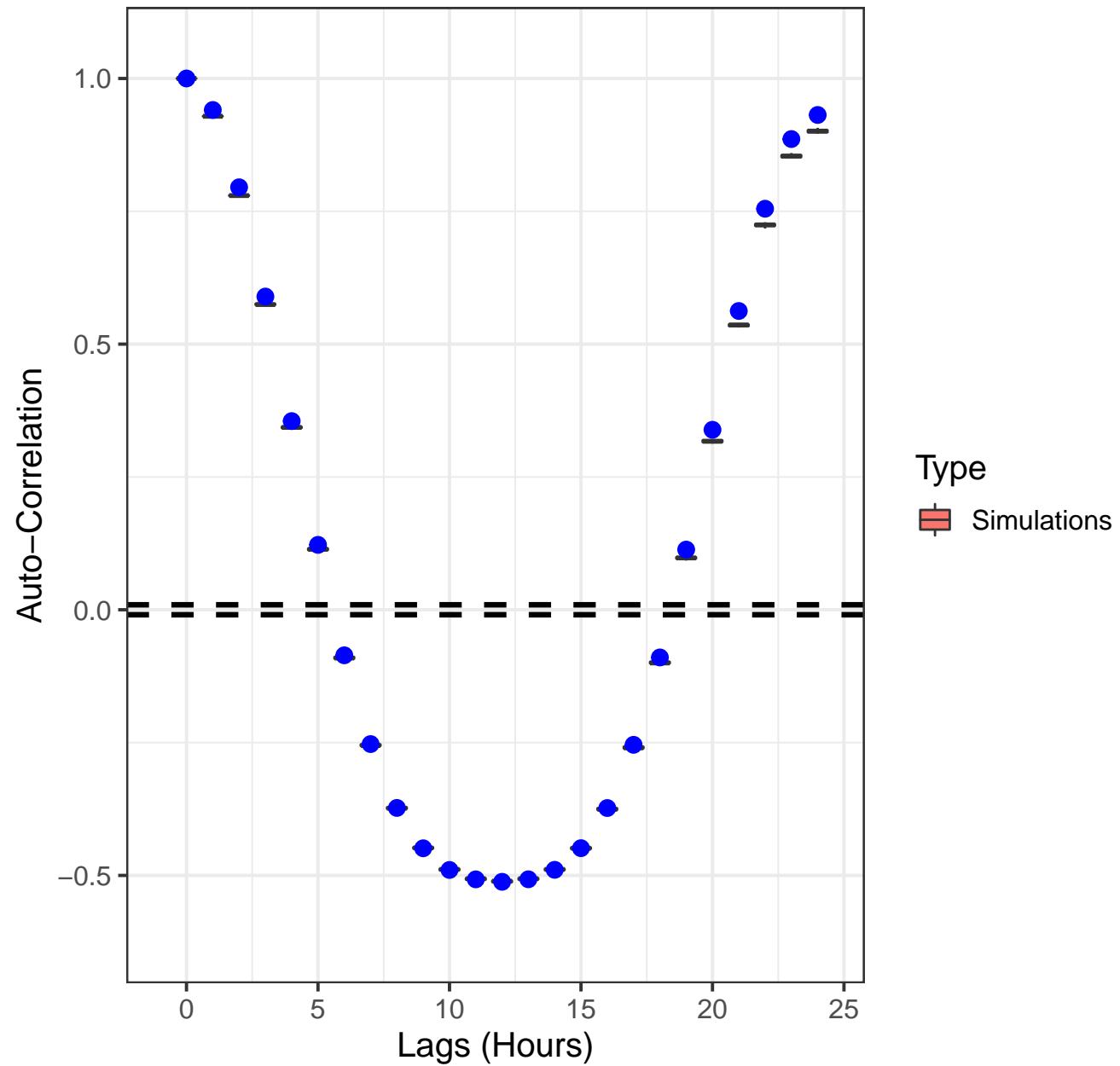
Cross Site Correlations – Solar



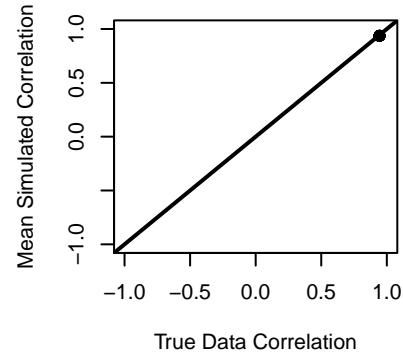
Cross Site Correlations – Solar



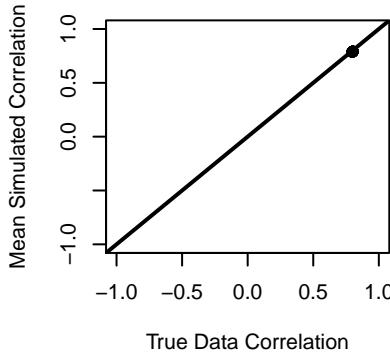
ACF – Single Random Site – Solar



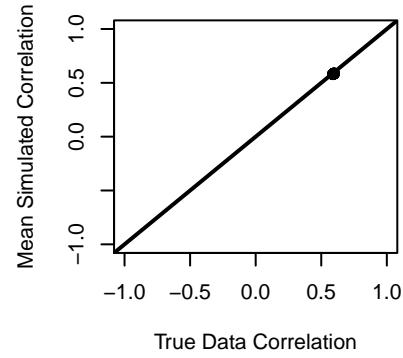
Lag-1 Correlations – Solar



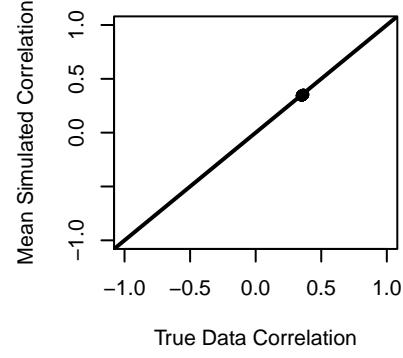
Lag-2 Correlations – Solar



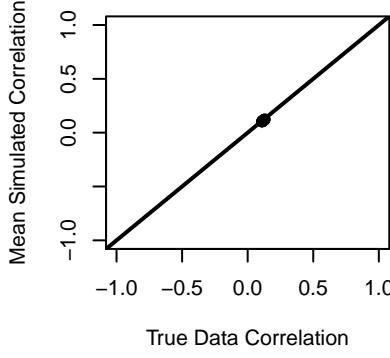
Lag-3 Correlations – Solar



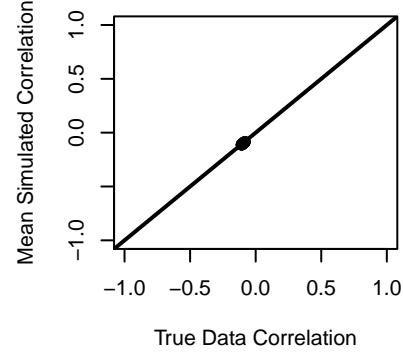
Lag-4 Correlations – Solar



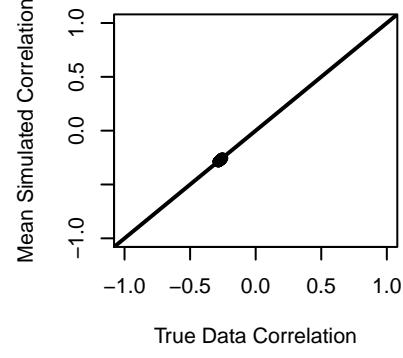
Lag-5 Correlations – Solar



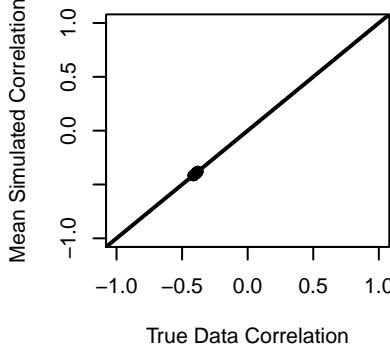
Lag-6 Correlations – Solar



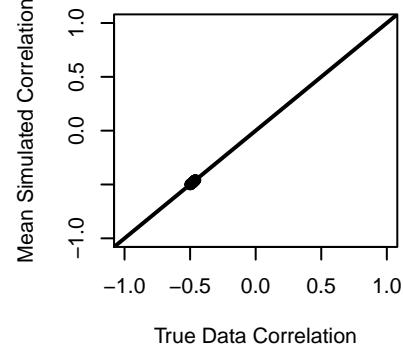
Lag-7 Correlations – Solar



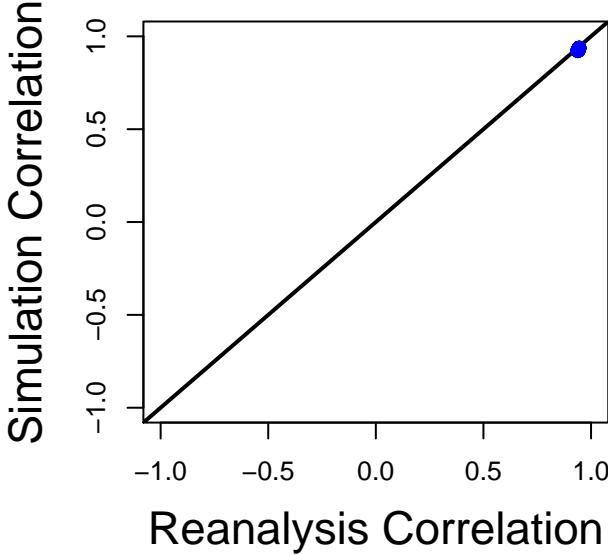
Lag-8 Correlations – Solar



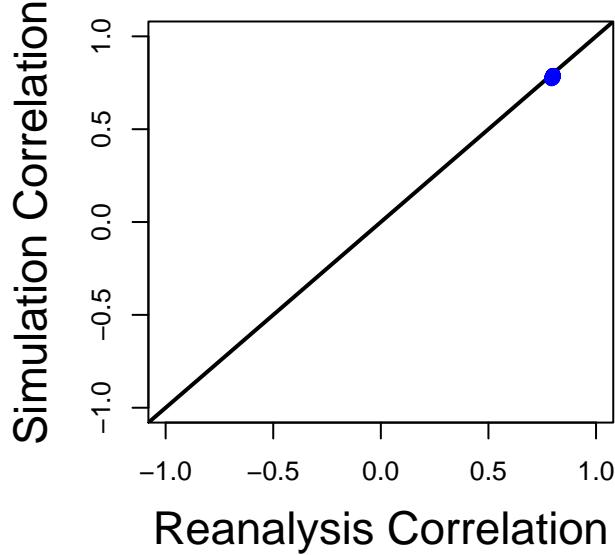
Lag-9 Correlations – Solar



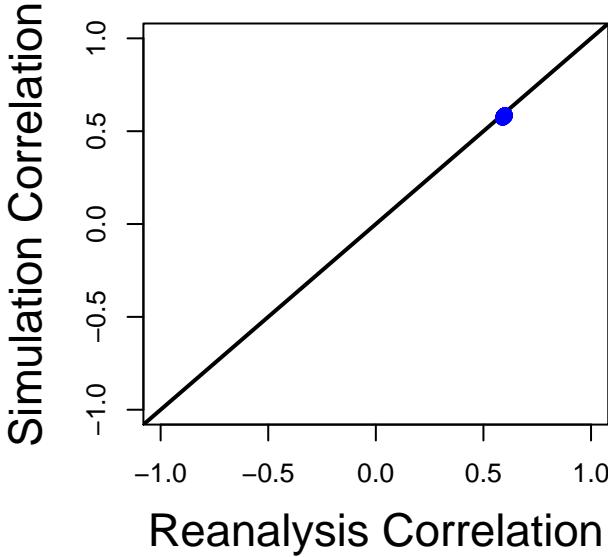
Lag-1 – Solar



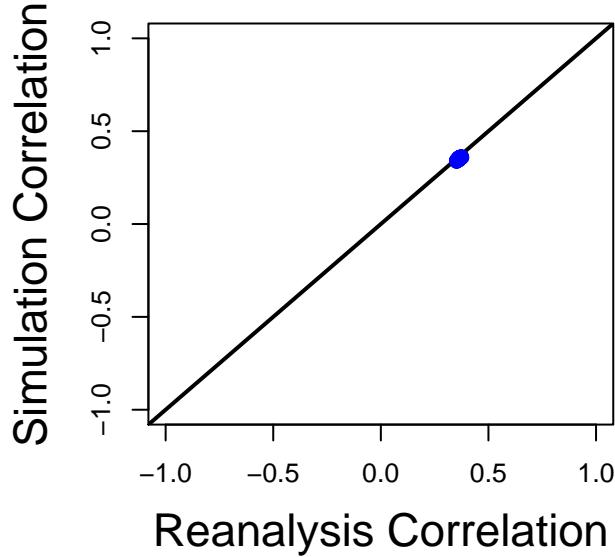
Lag-2 – Solar



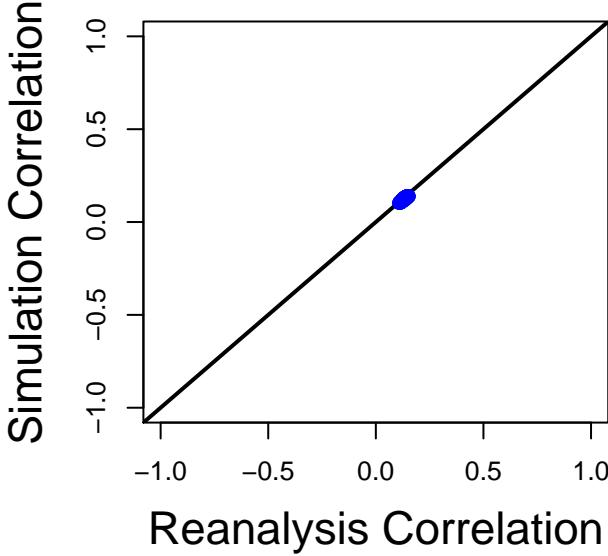
Lag-3 – Solar



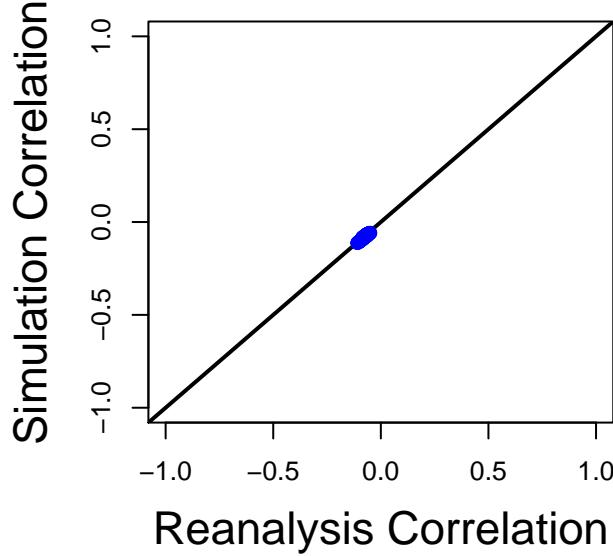
Lag-4 – Solar



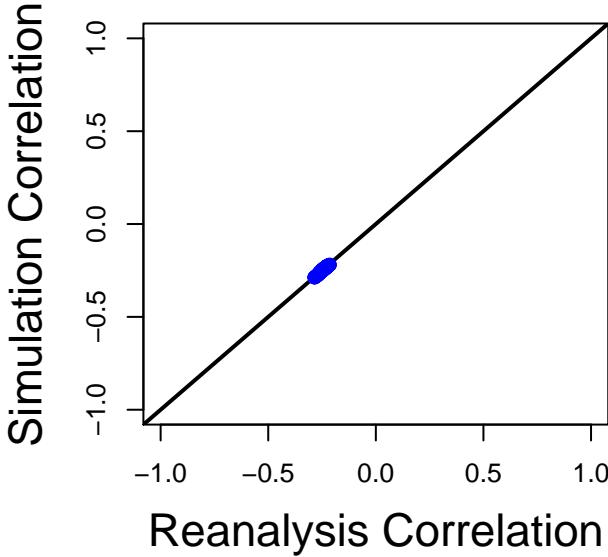
Lag-5 – Solar



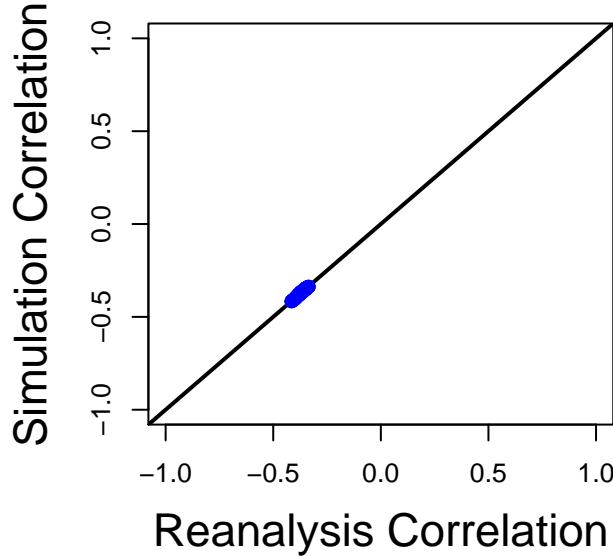
Lag-6 – Solar



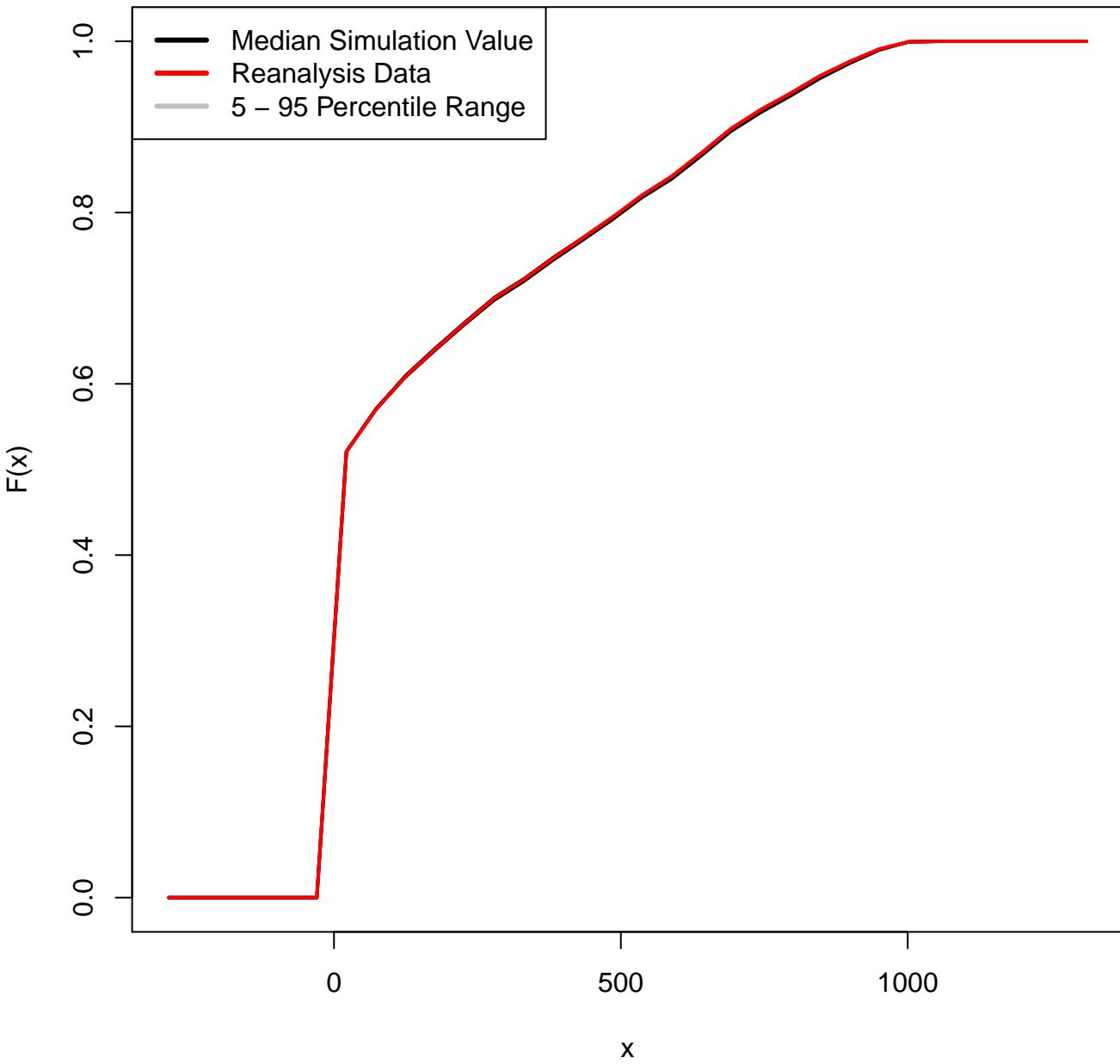
Lag-7 – Solar



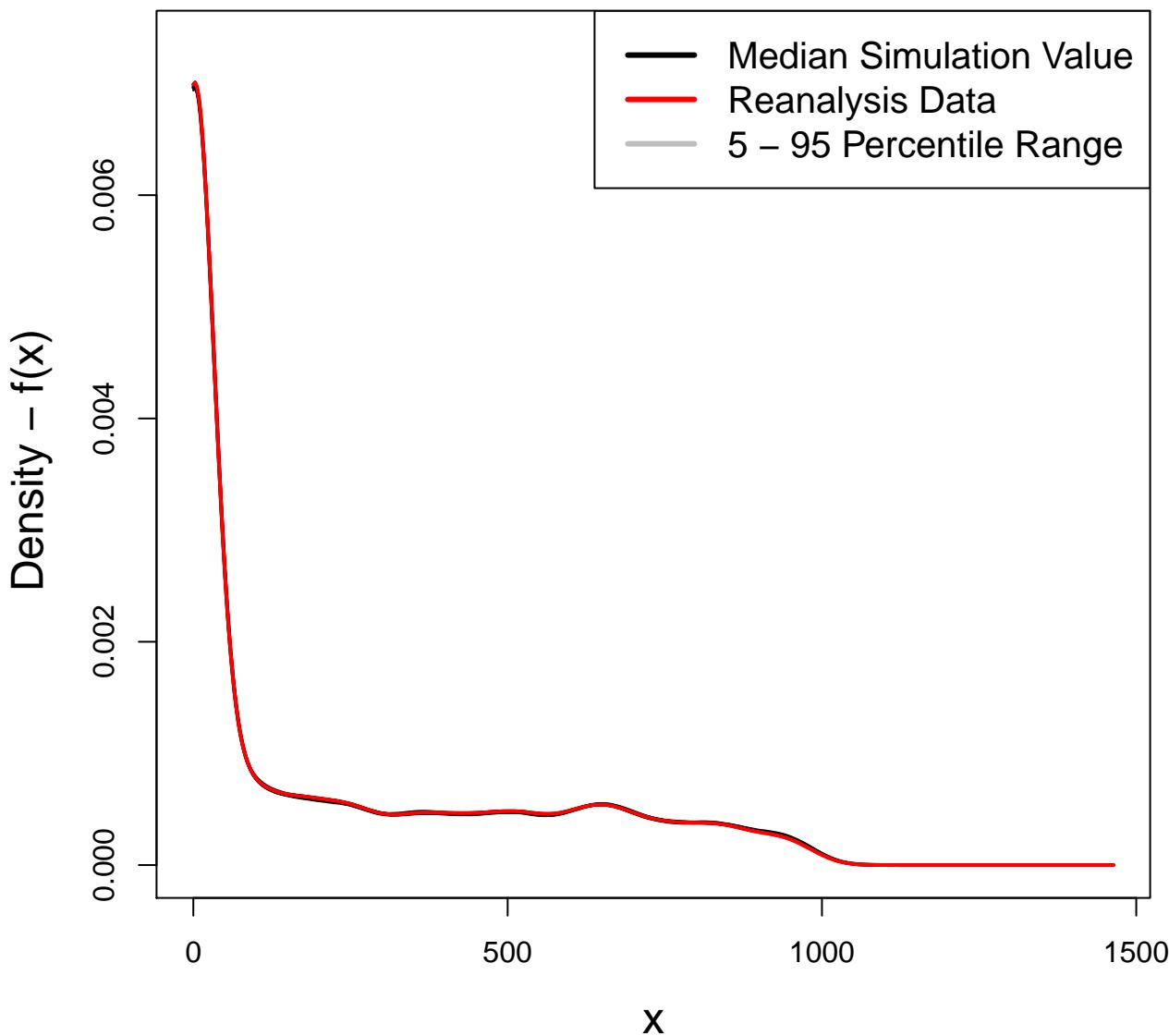
Lag-8 – Solar

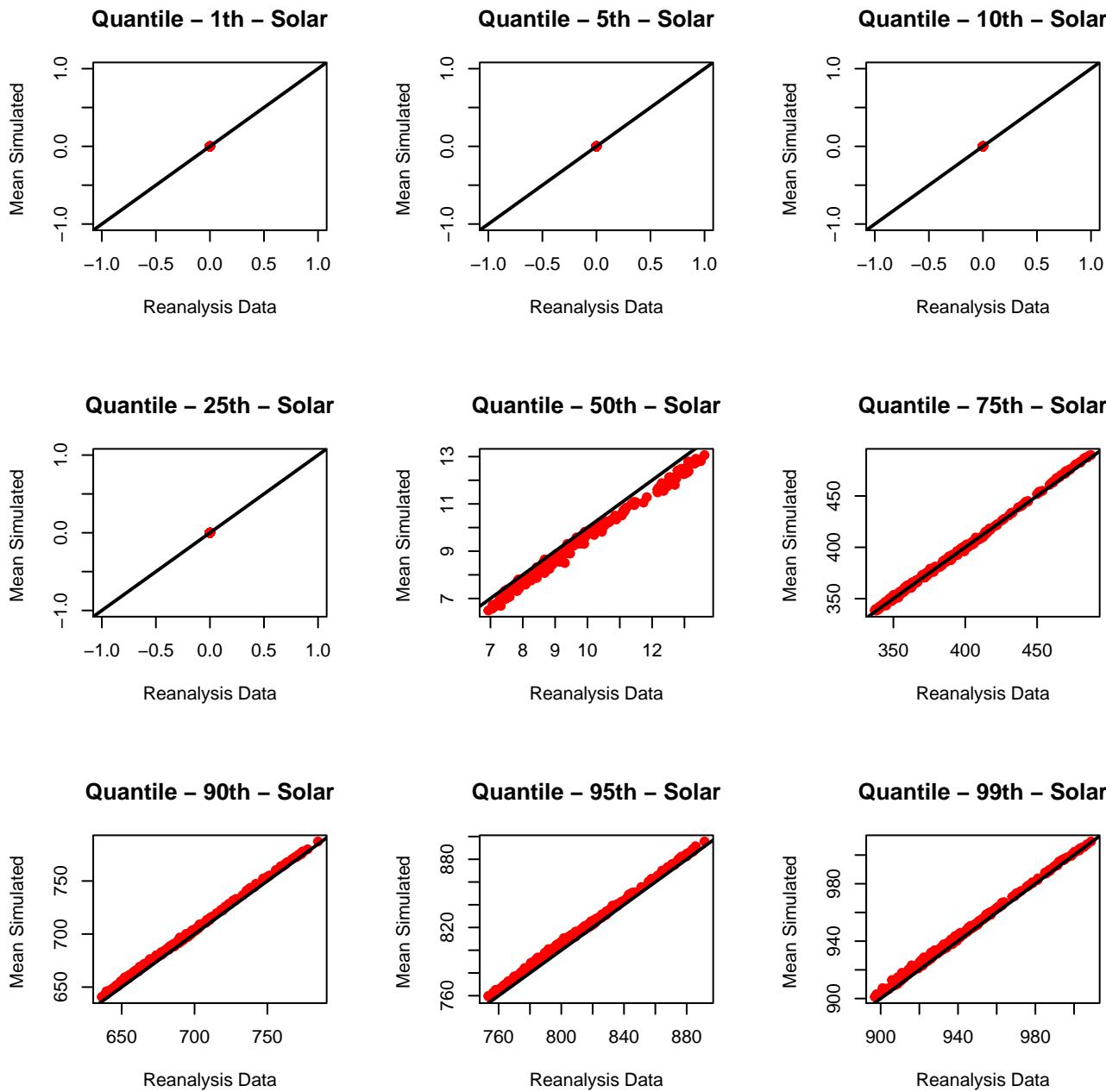


True vs Simulated CDF for Single Site – Solar

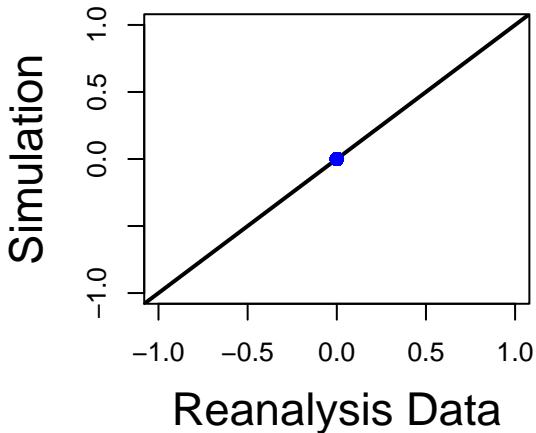


PDF at a single site – Solar

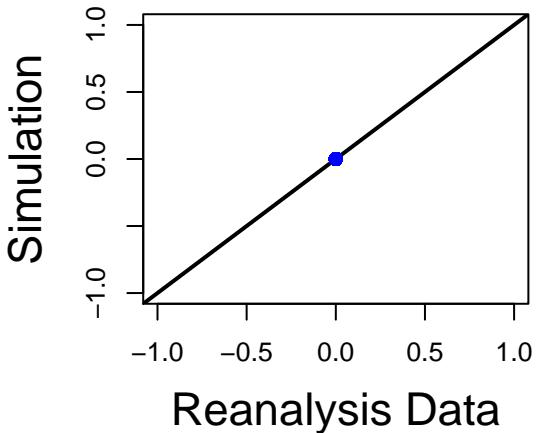




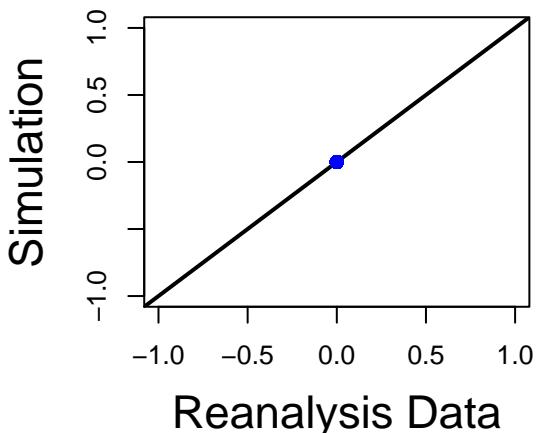
1th Quantile – Solar



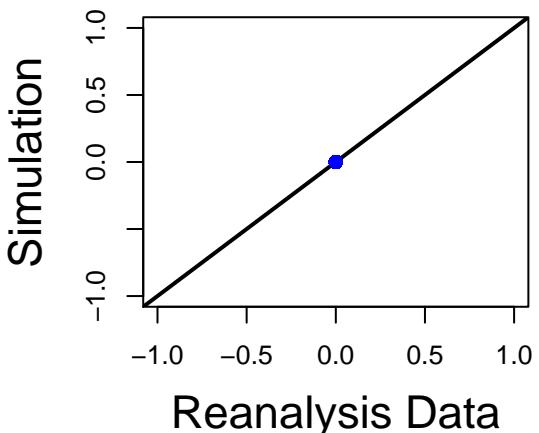
5th Quantile – Solar



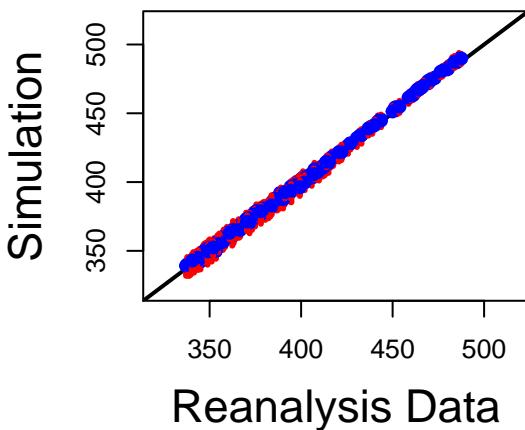
10th Quantile – Solar



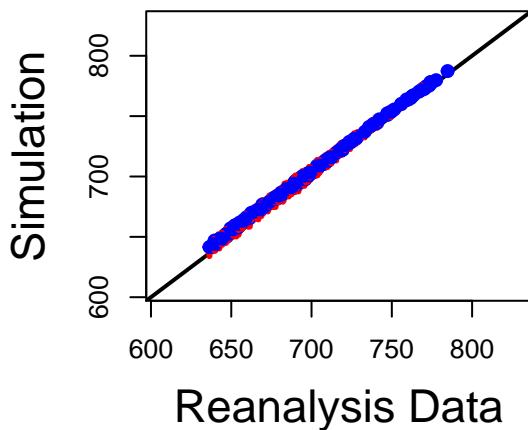
25th Quantile – Solar



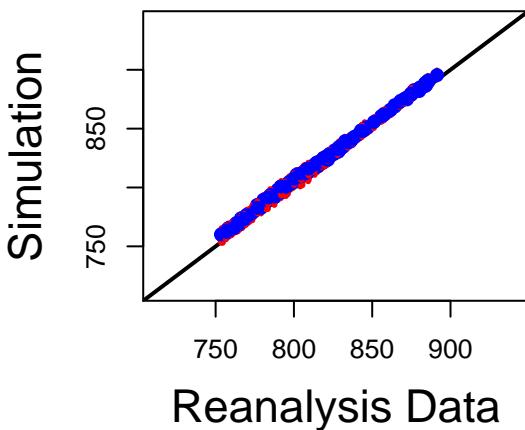
75th Quantile – Solar



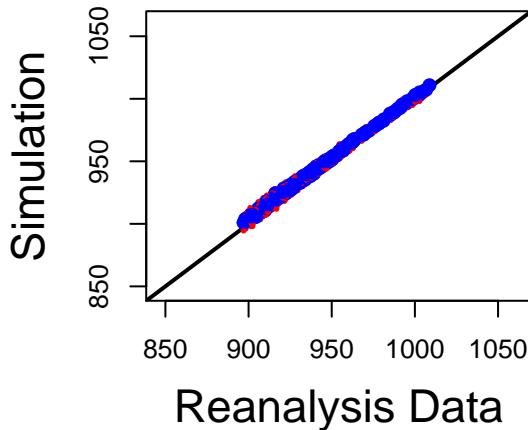
90th Quantile – Solar



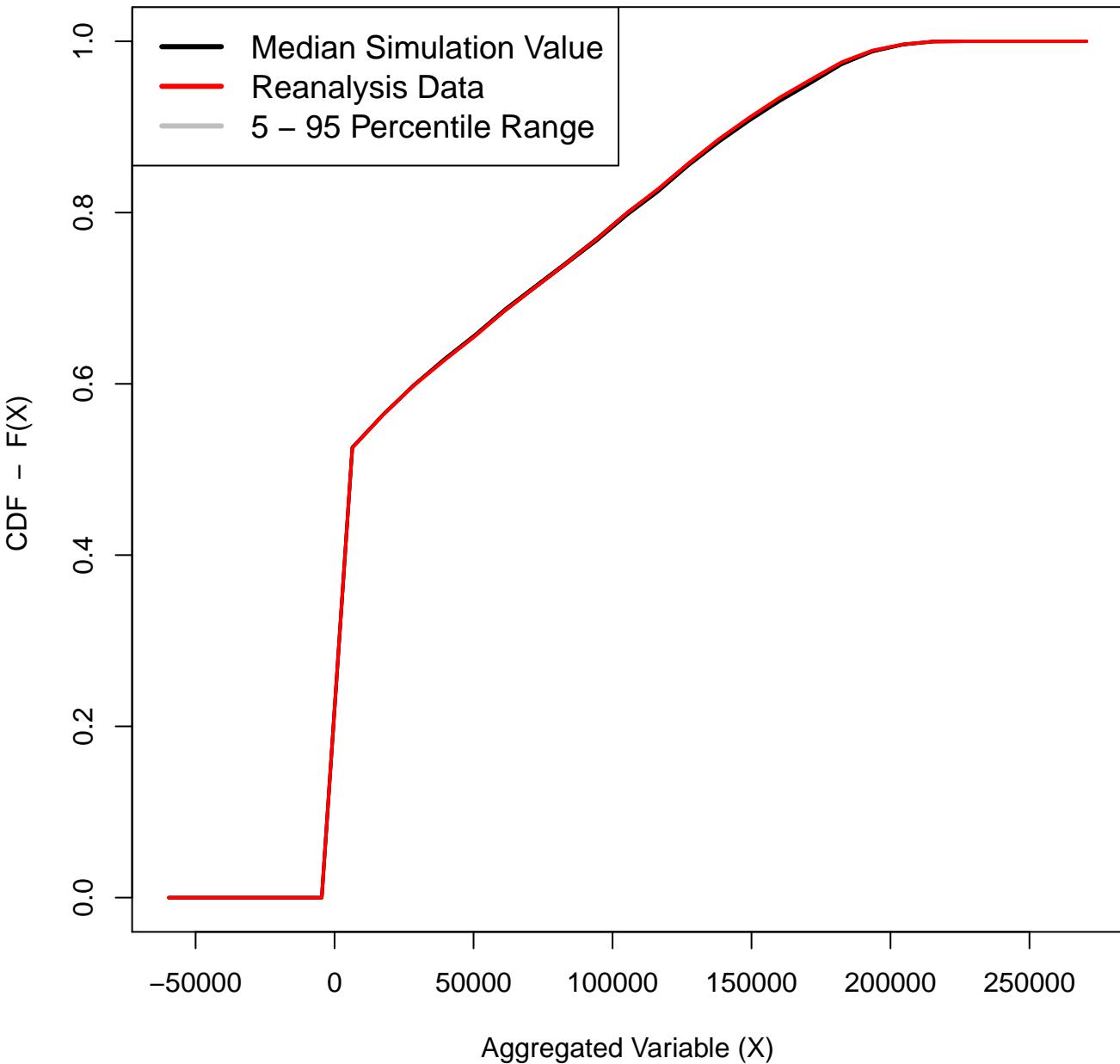
95th Quantile – Solar



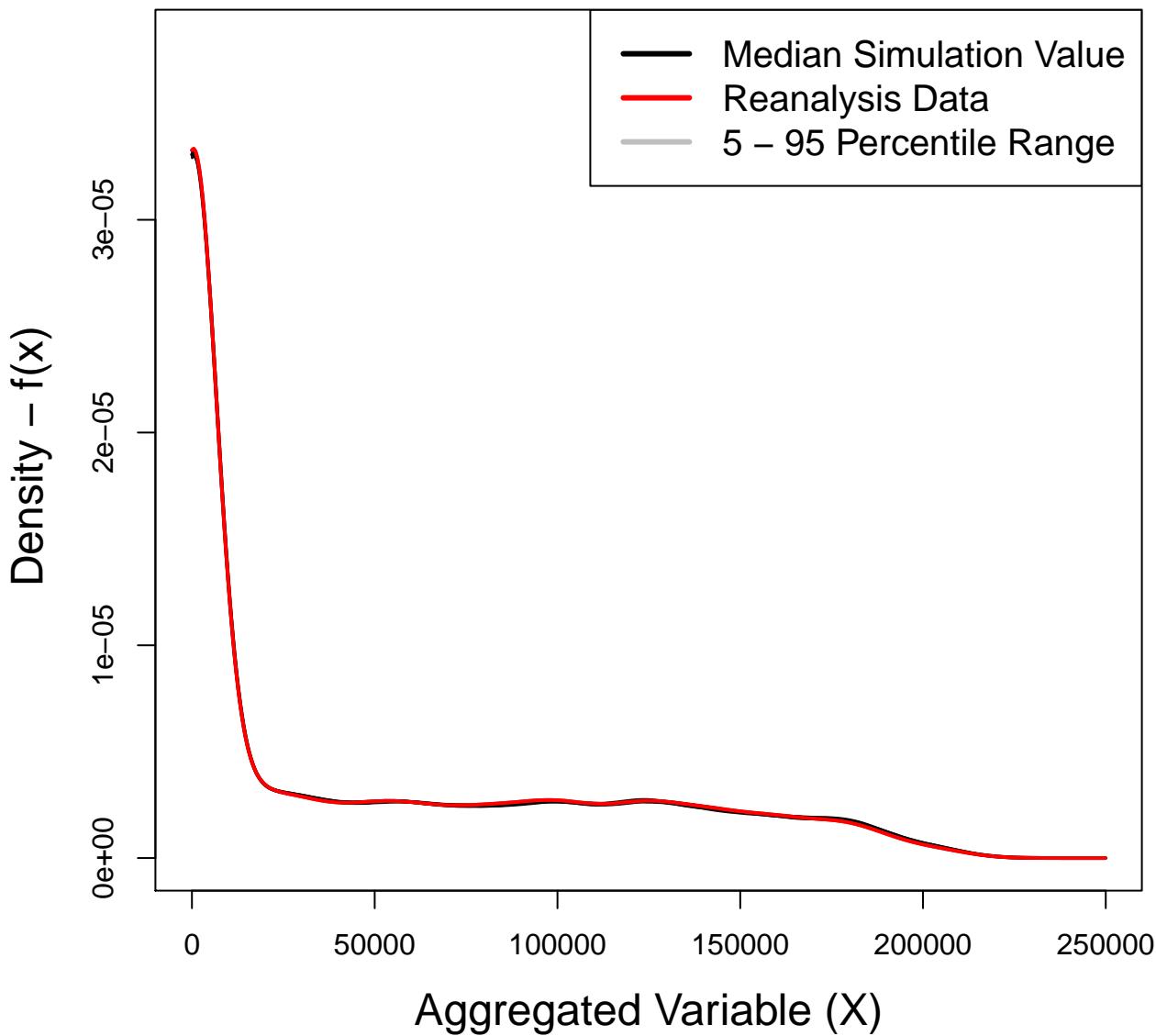
99th Quantile – Solar



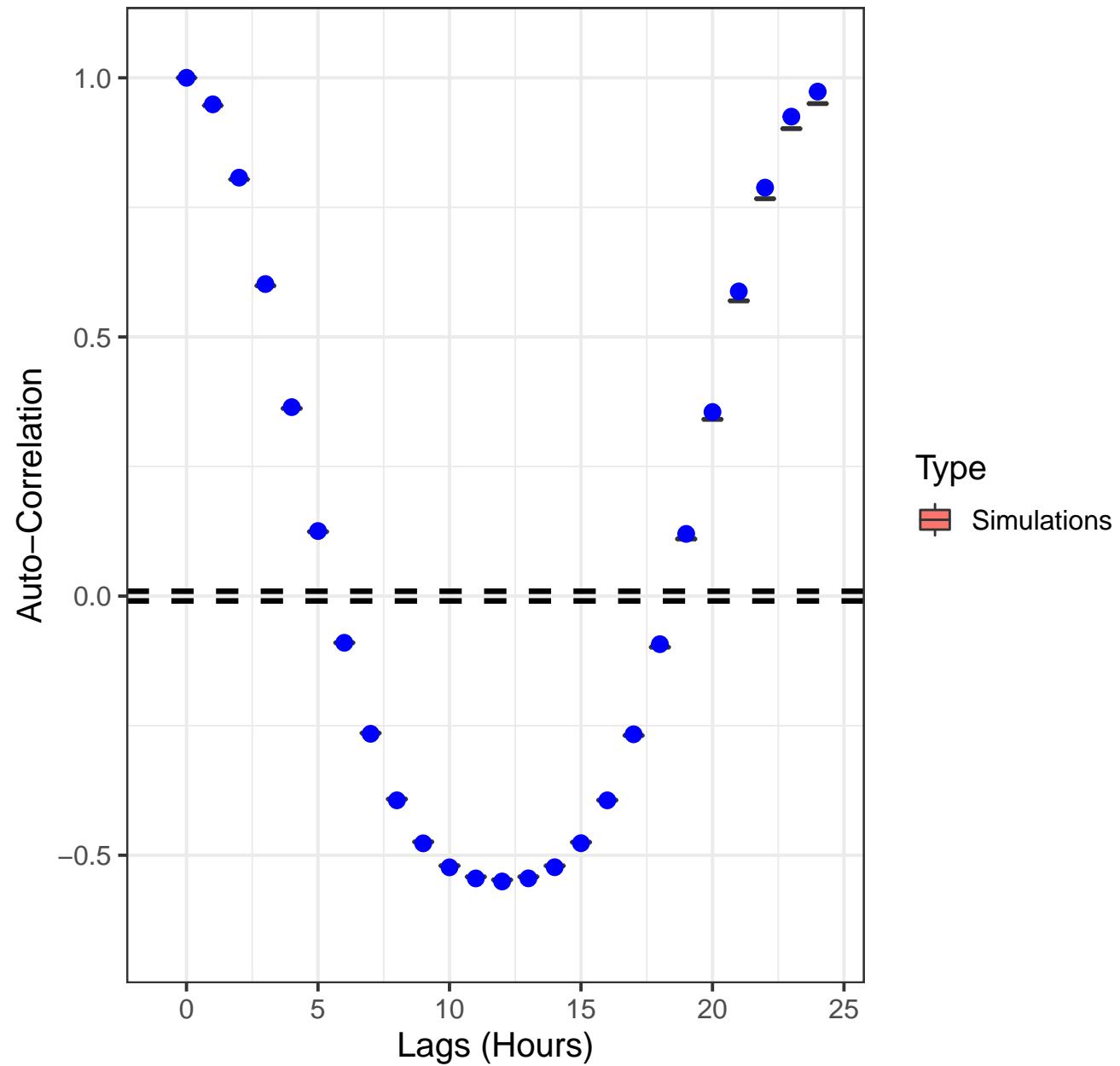
Simulated CDF for Entire Field – Solar

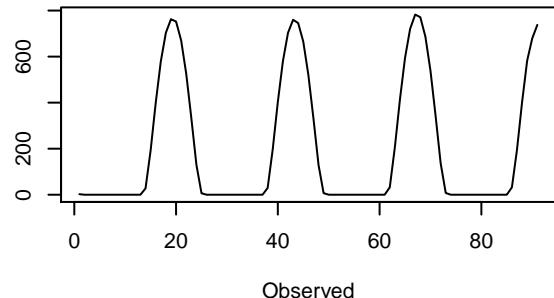
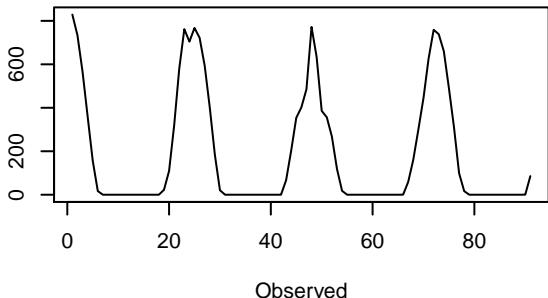
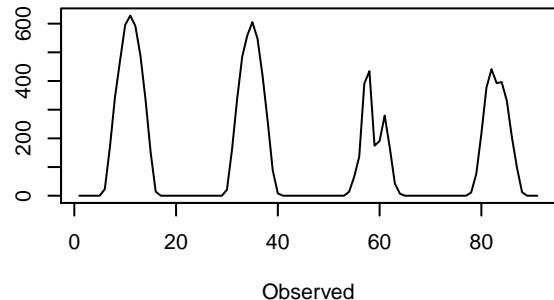
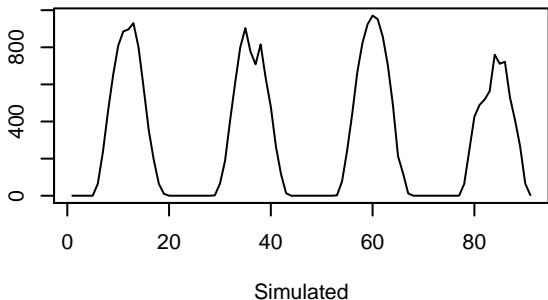
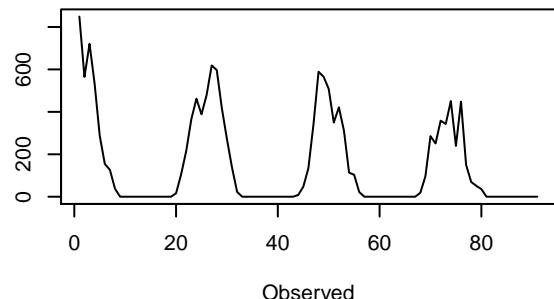
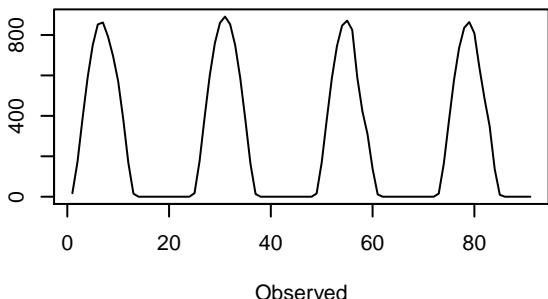


Simulated PDF for Entire Field – Solar

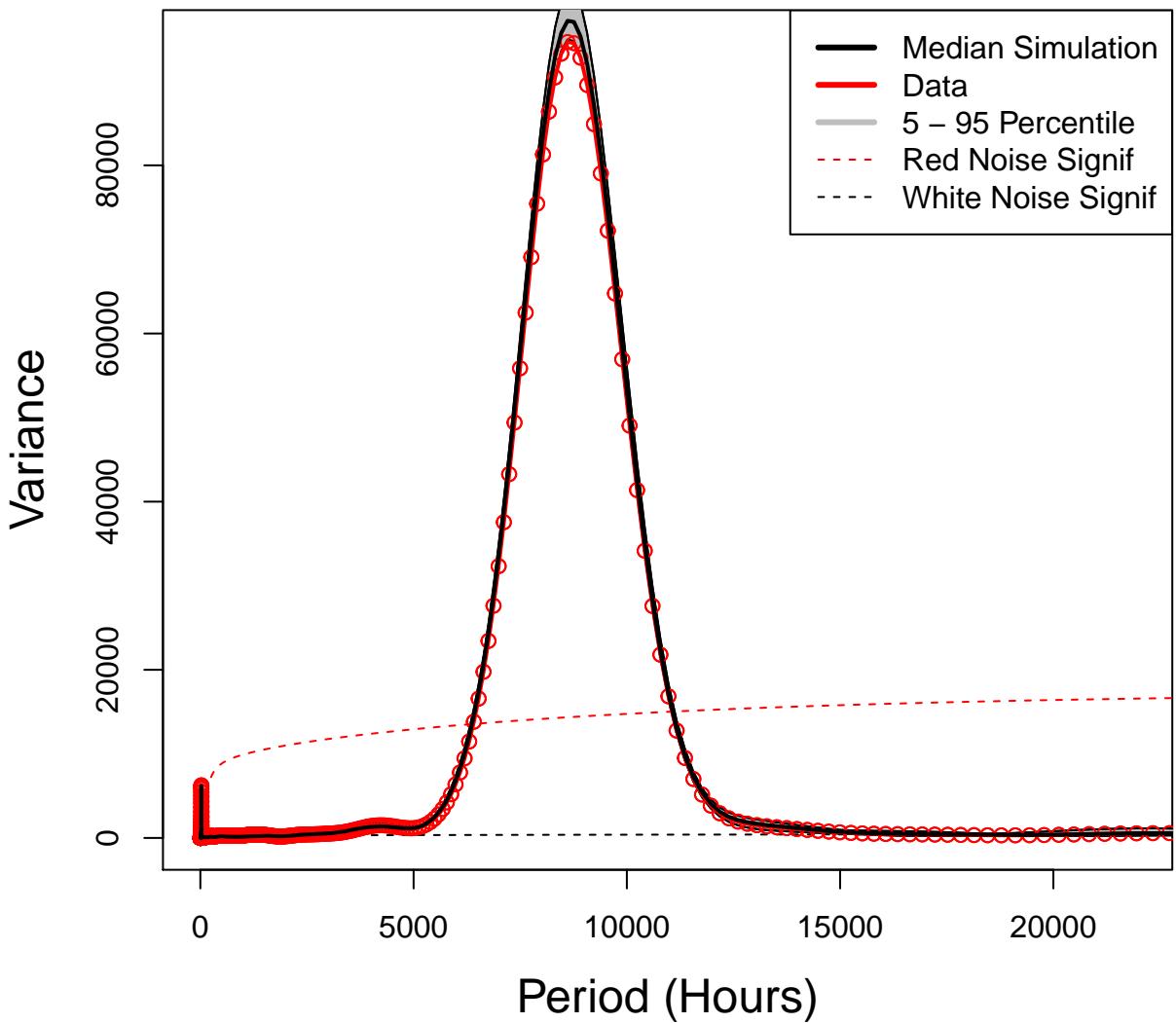


ACF – Aggregated Field – Solar

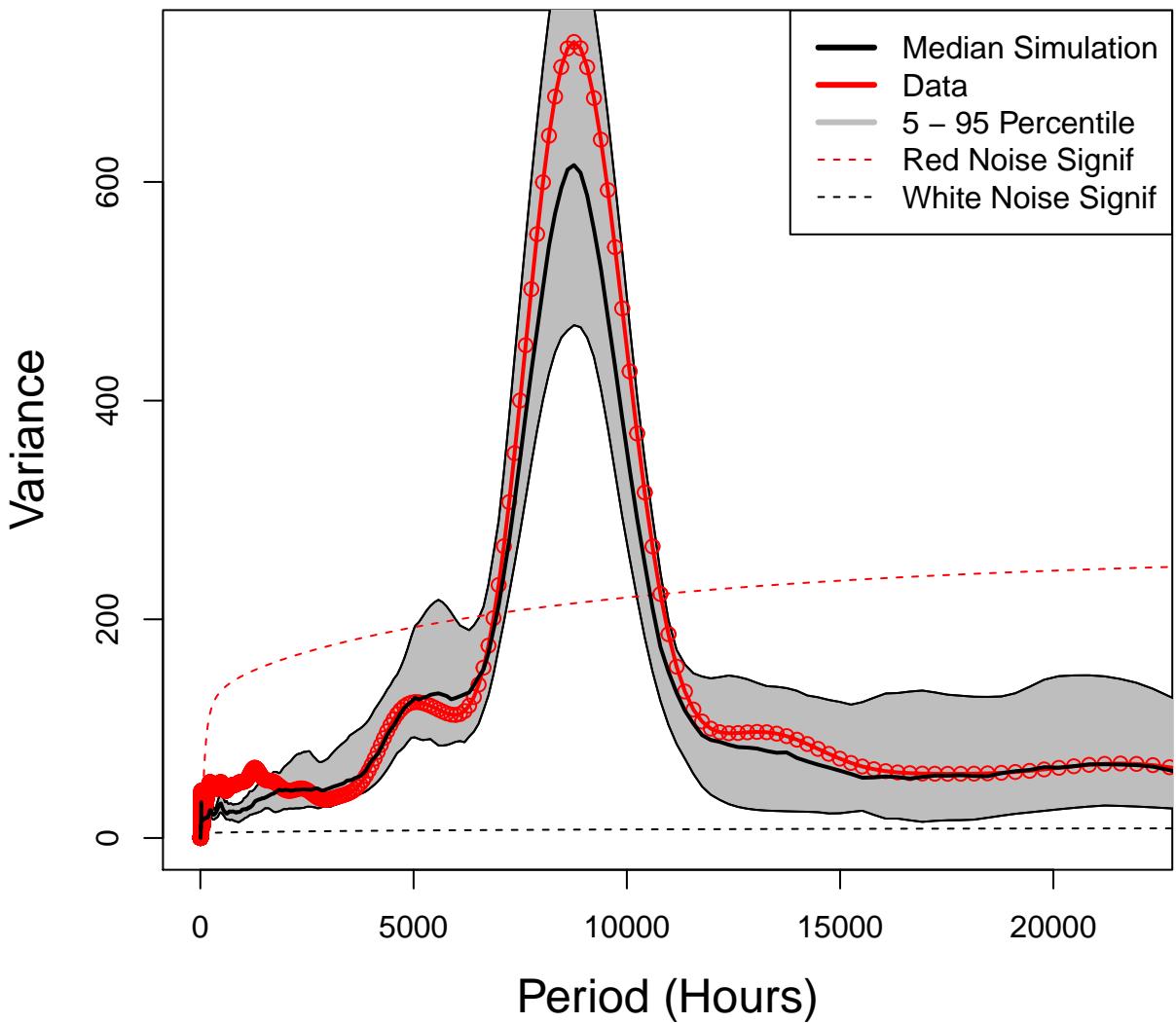




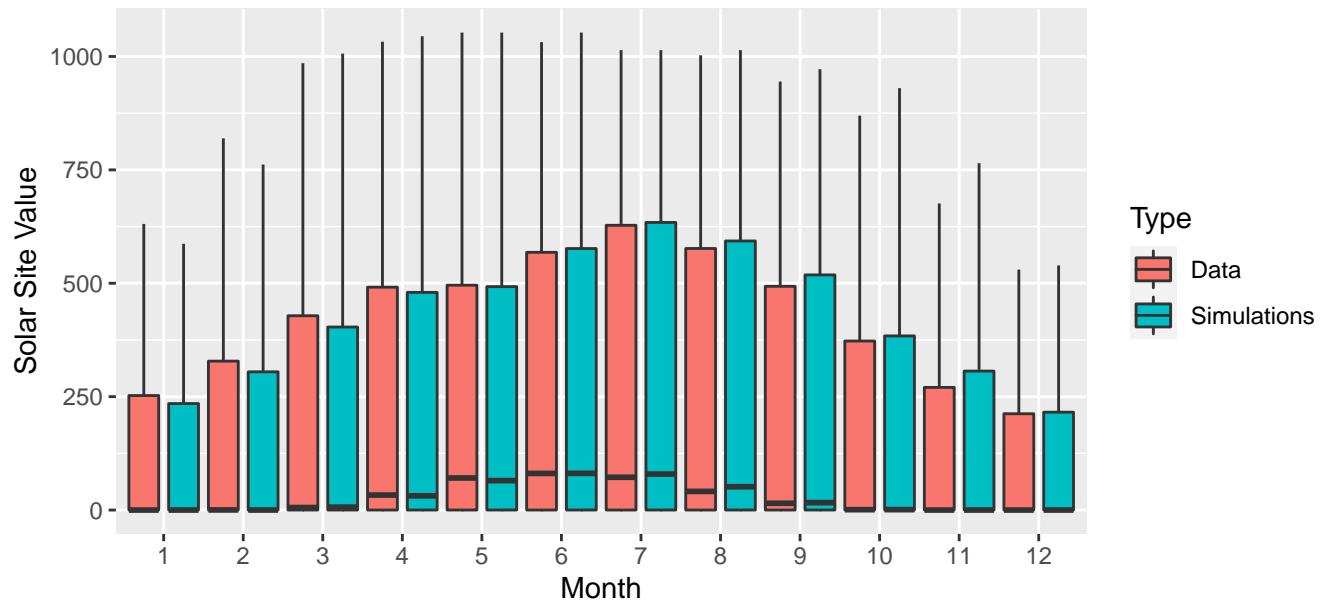
Global Wavelet Spectrum PC – 1 Solar



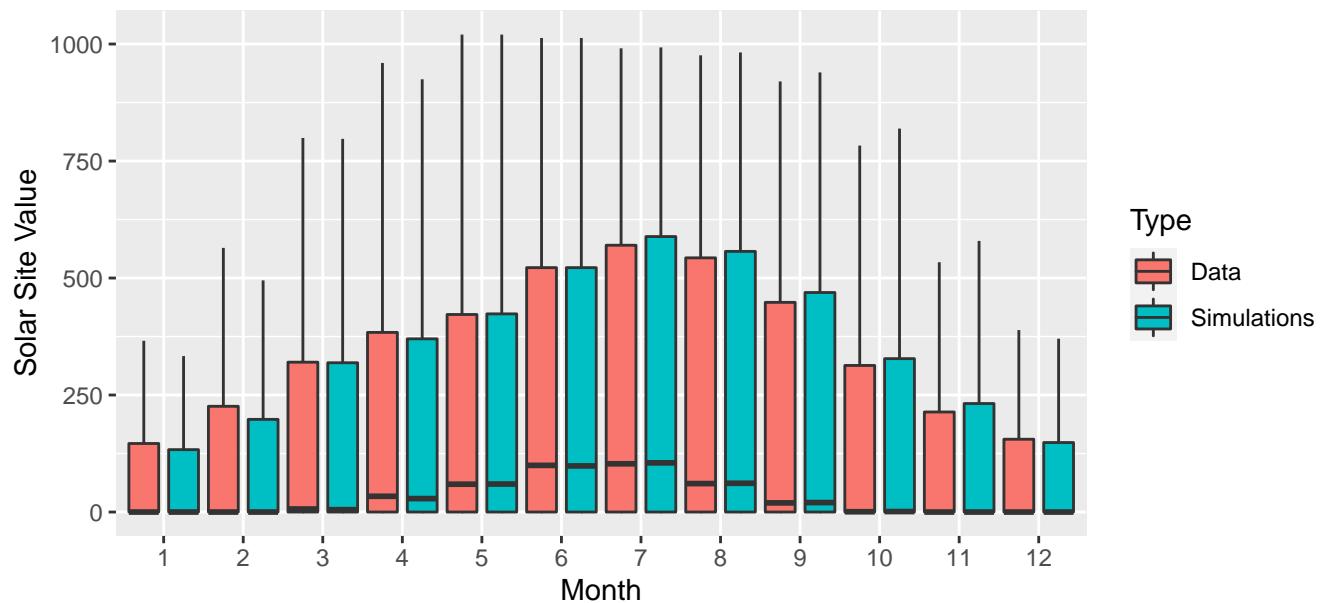
Global Wavelet Spectrum PC – 2 Solar



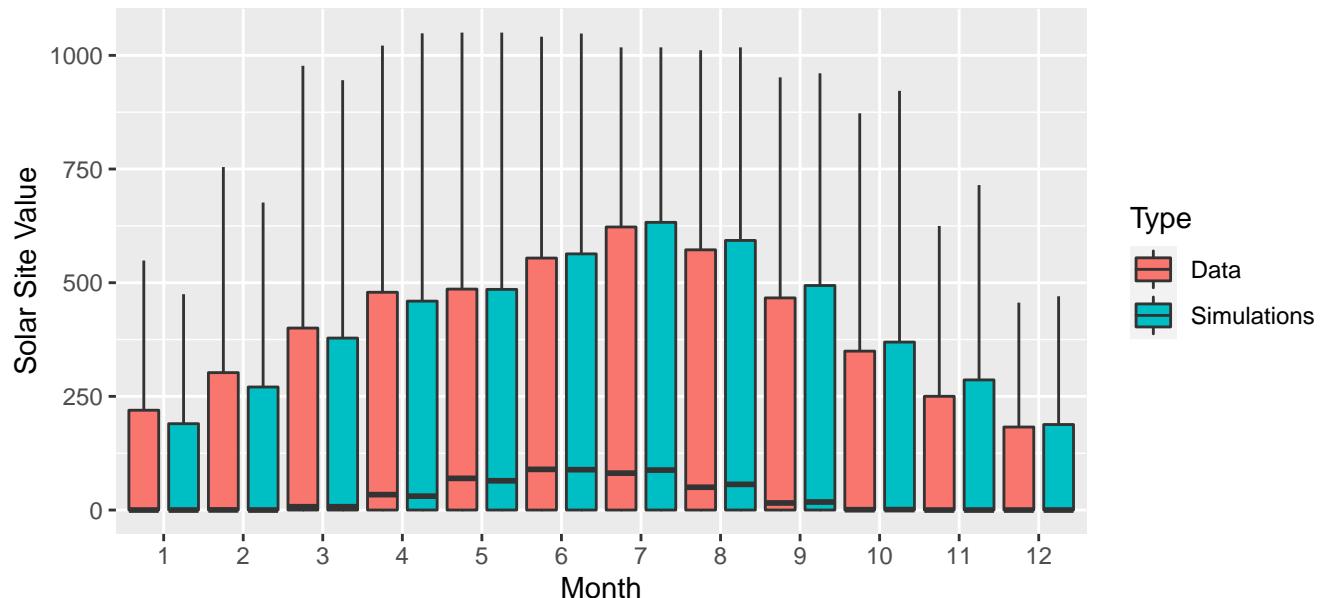
Monthly Solar for Site 38



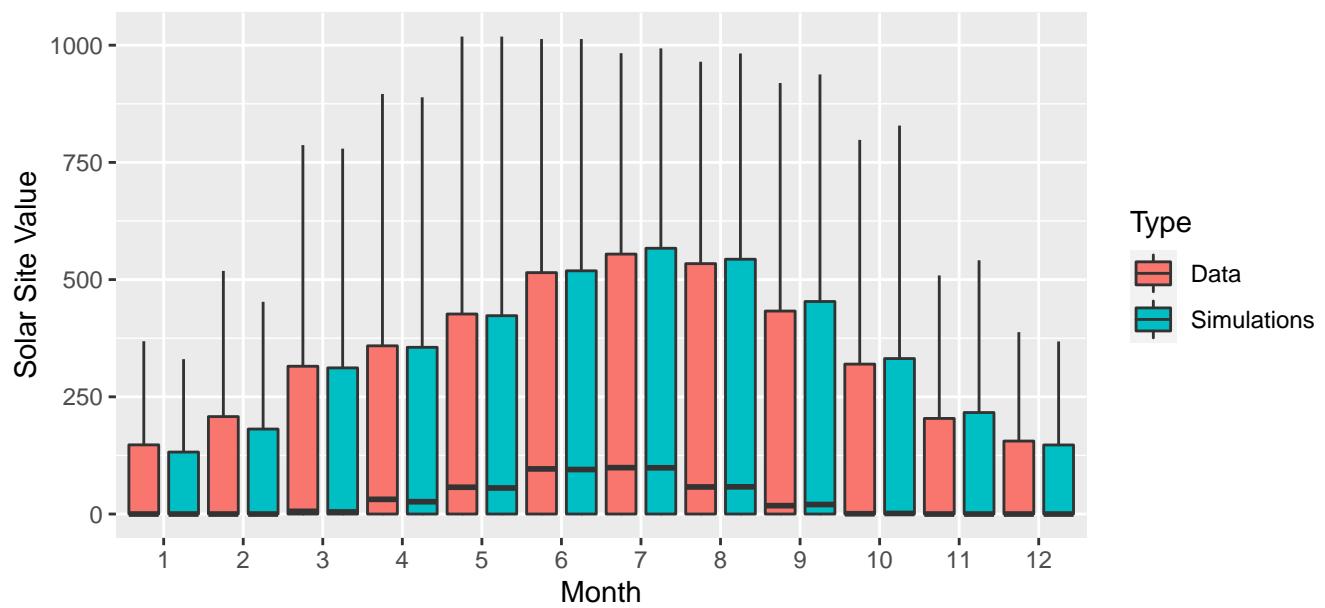
Monthly Solar for Site 177



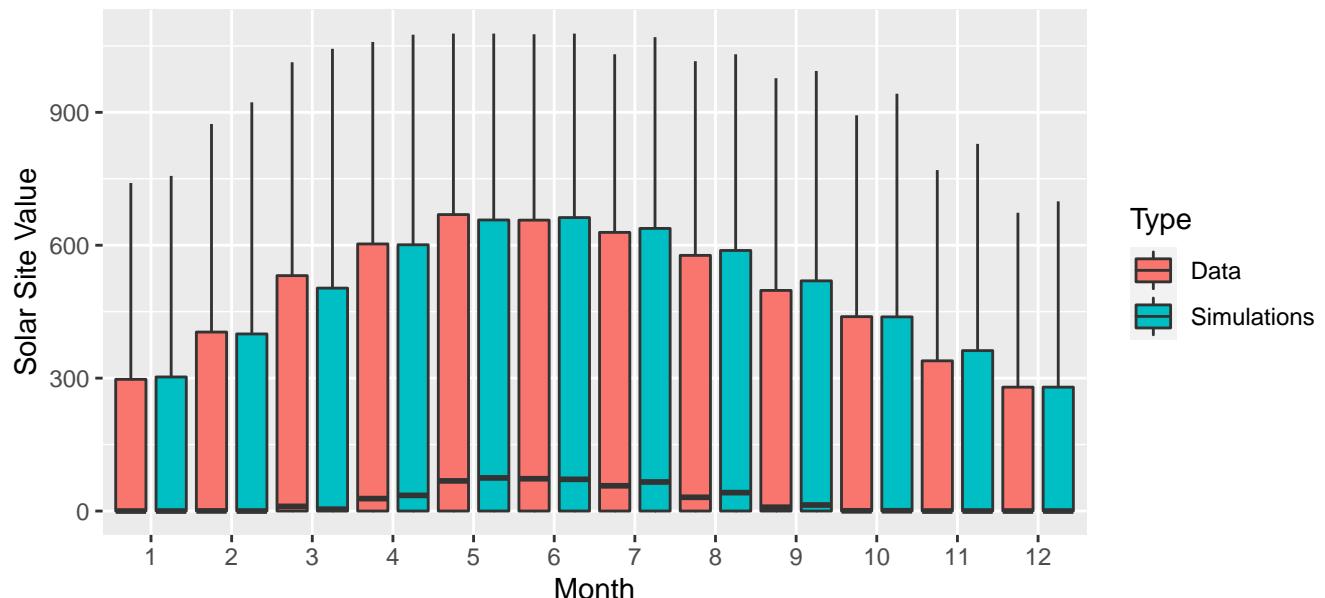
Monthly Solar for Site 58



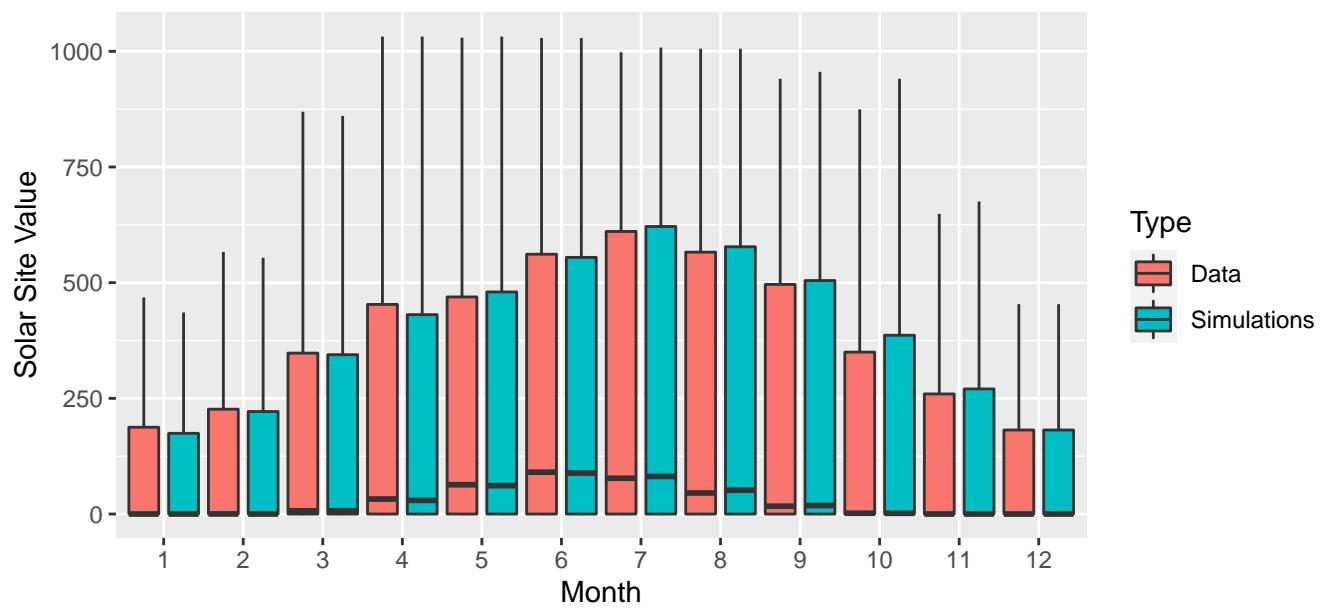
Monthly Solar for Site 186



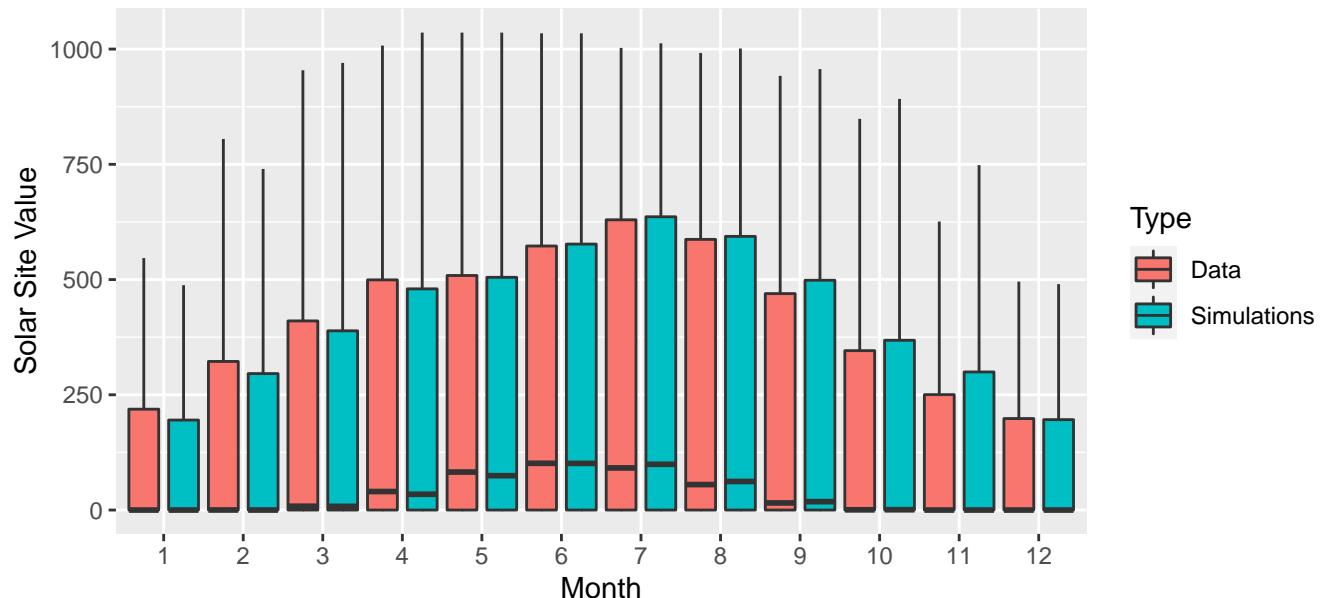
Monthly Solar for Site 8



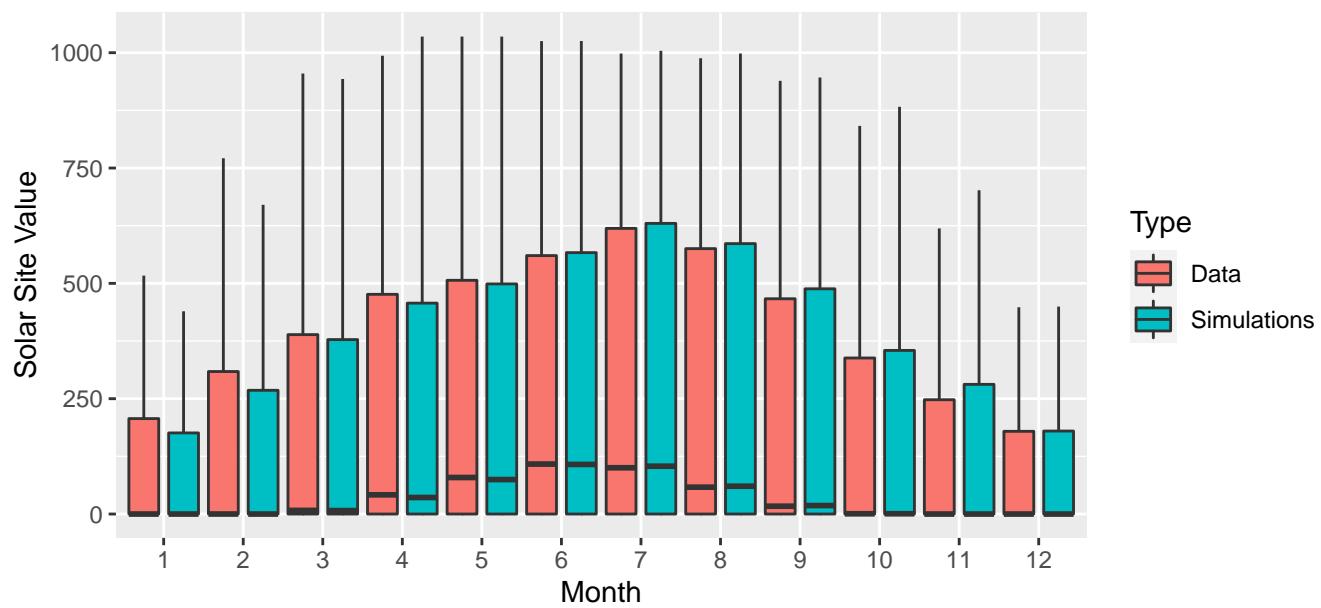
Monthly Solar for Site 98



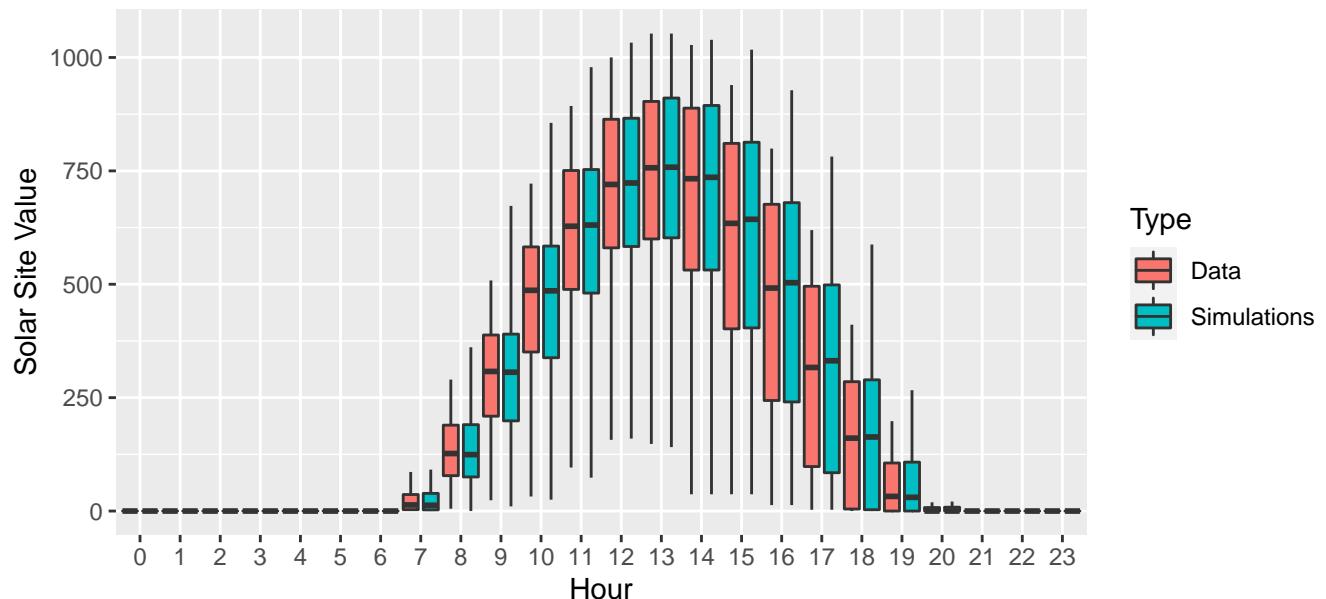
Monthly Solar for Site 62



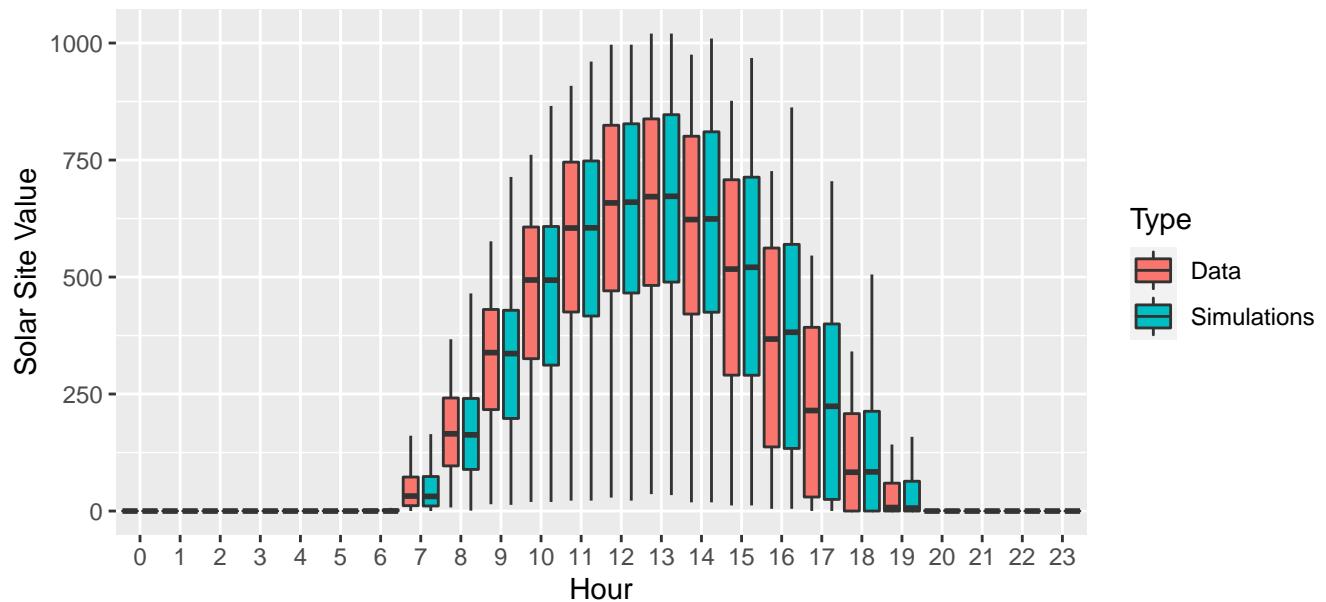
Monthly Solar for Site 92



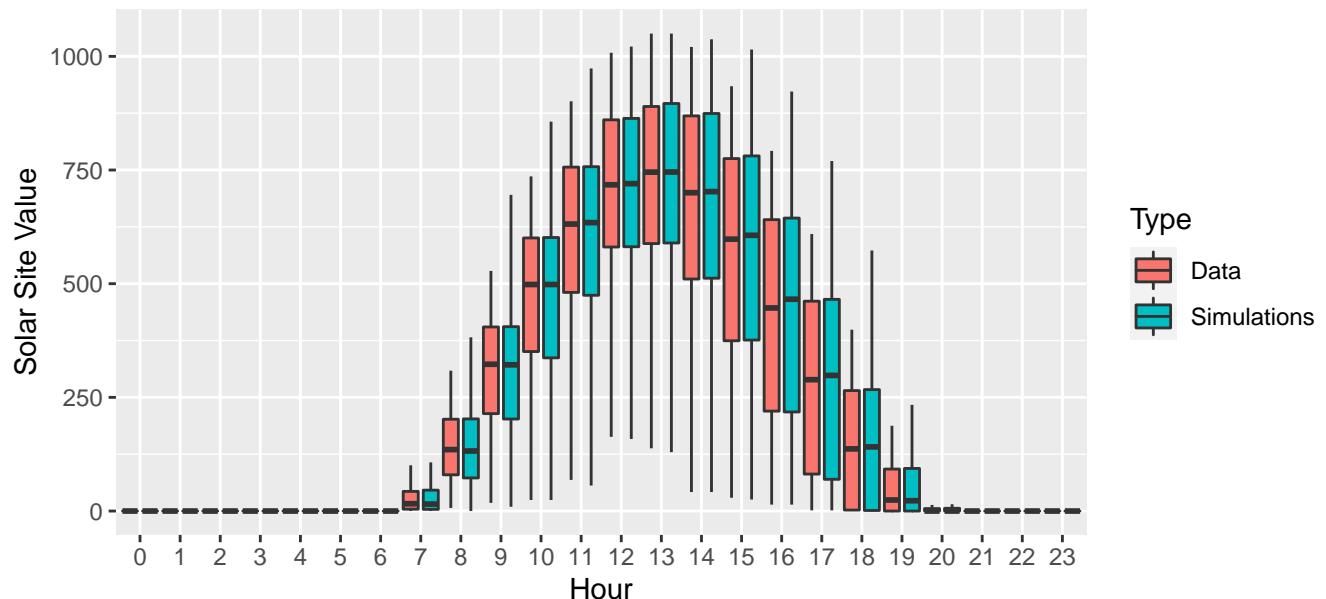
Hourly Solar for Site 38



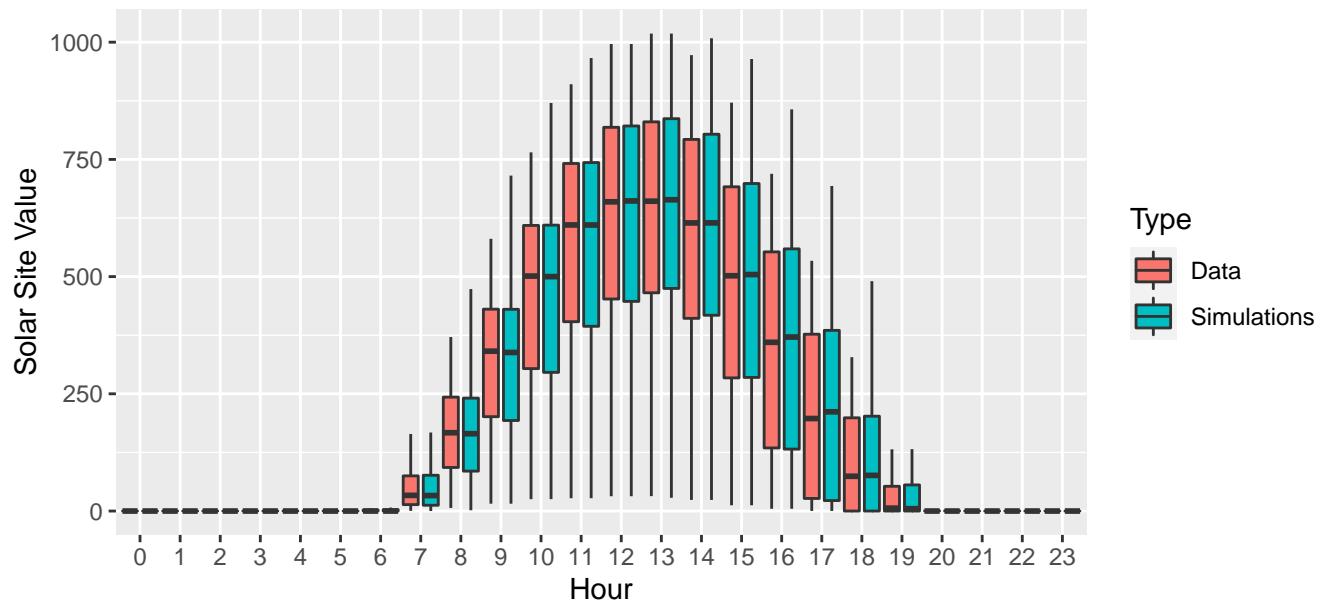
Hourly Solar for Site 177



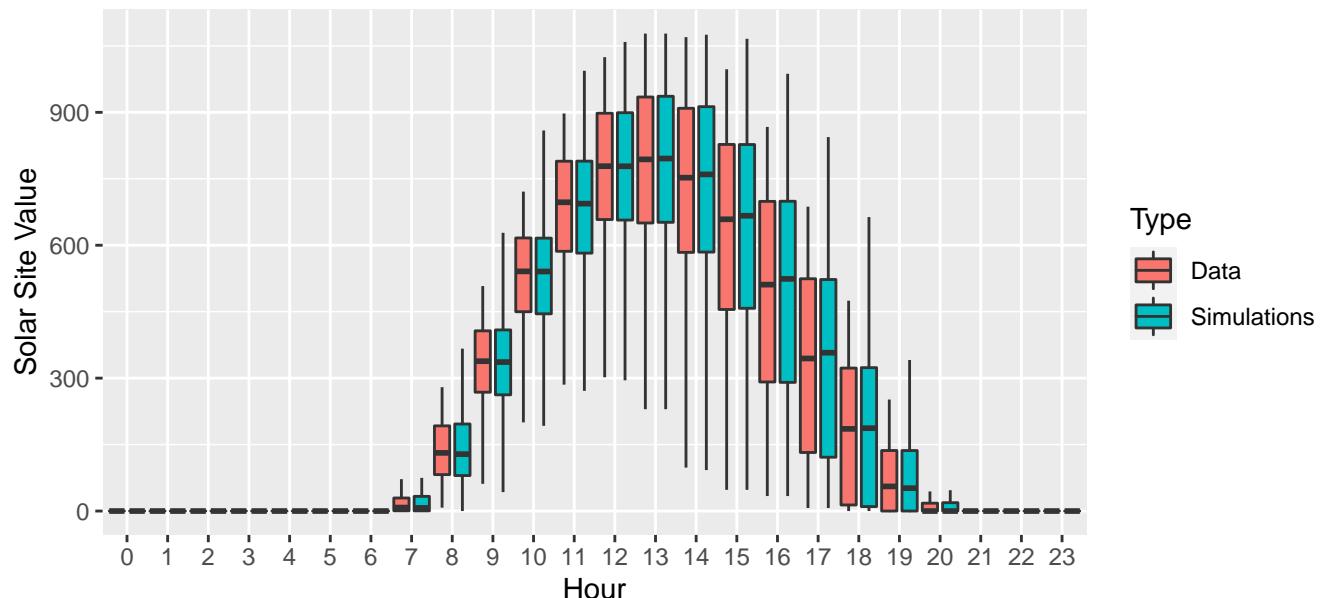
Hourly Solar for Site 58



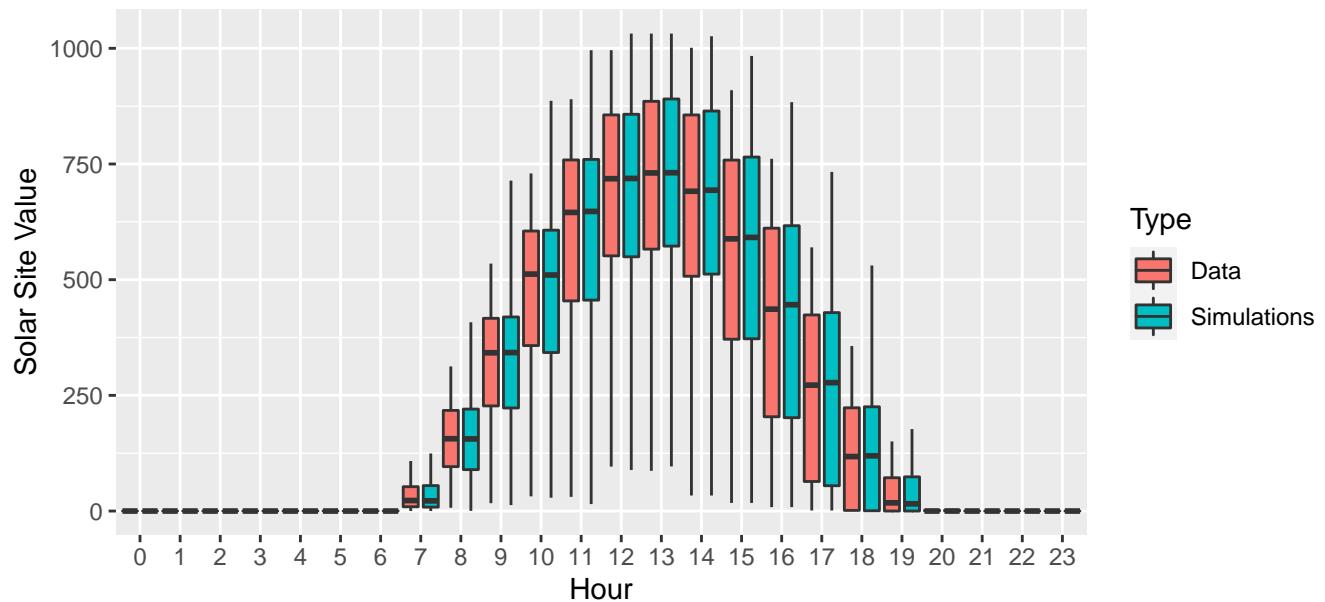
Hourly Solar for Site 186



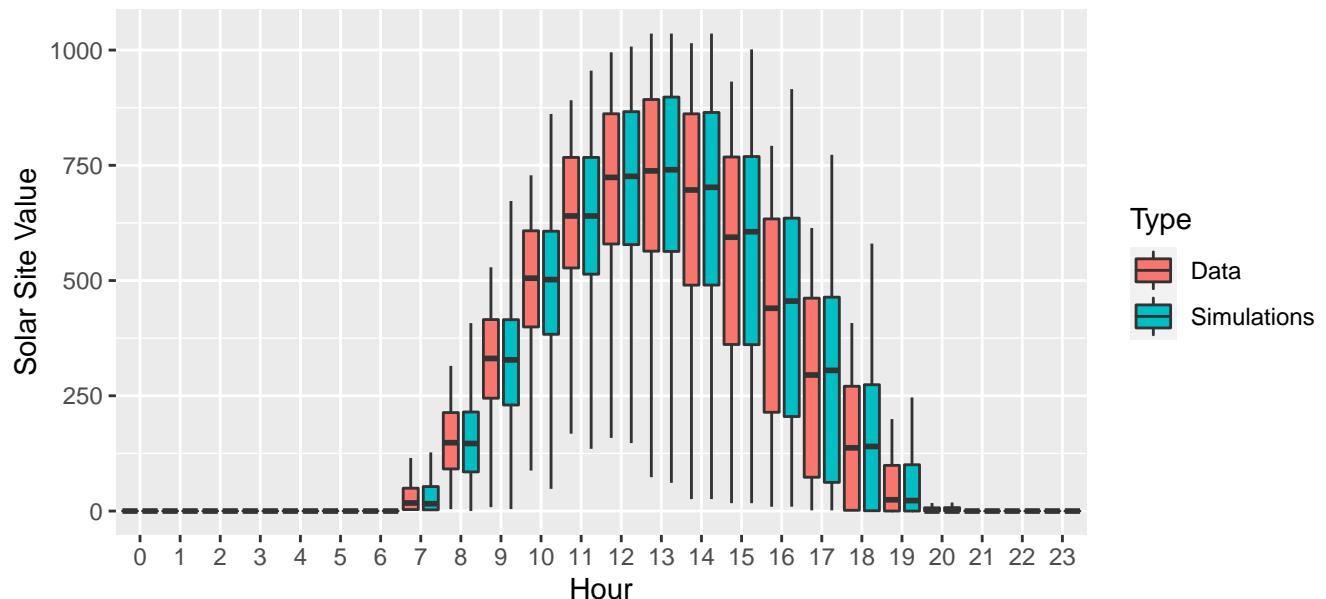
Hourly Solar for Site 8



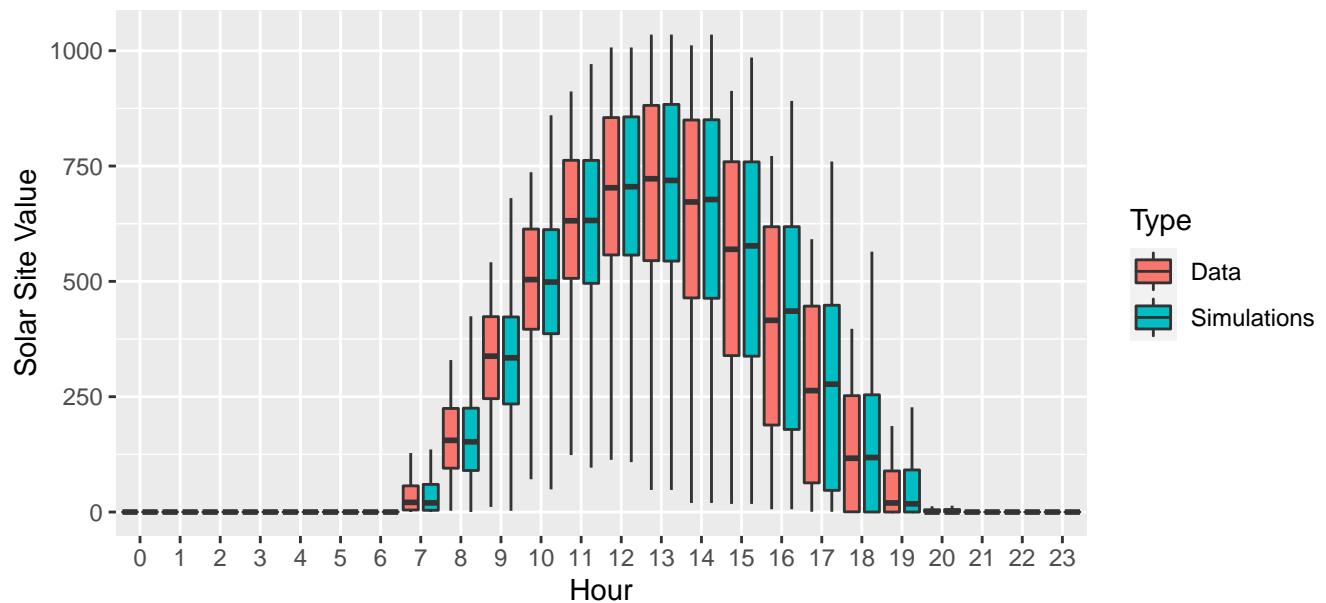
Hourly Solar for Site 98



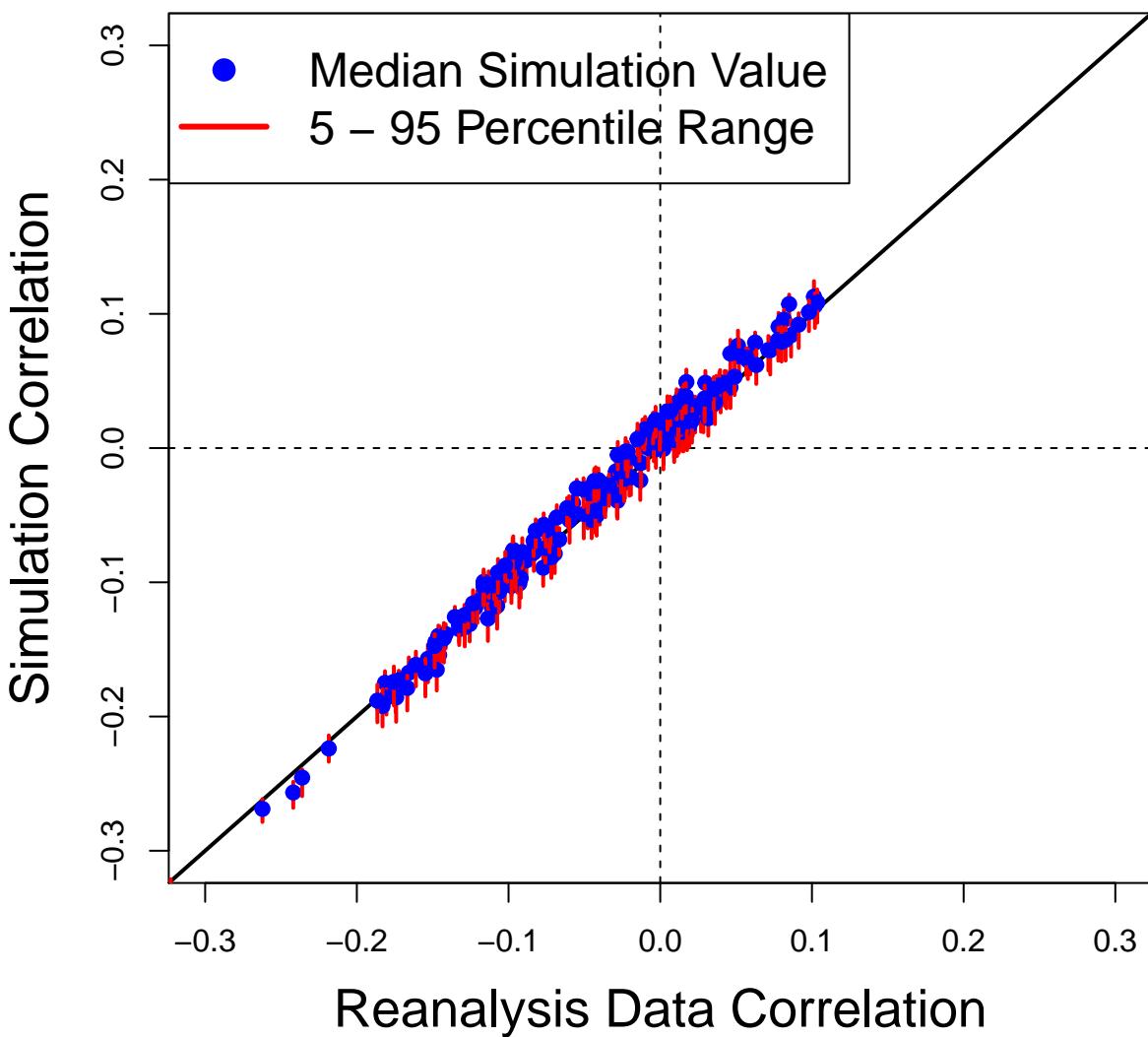
Hourly Solar for Site 62



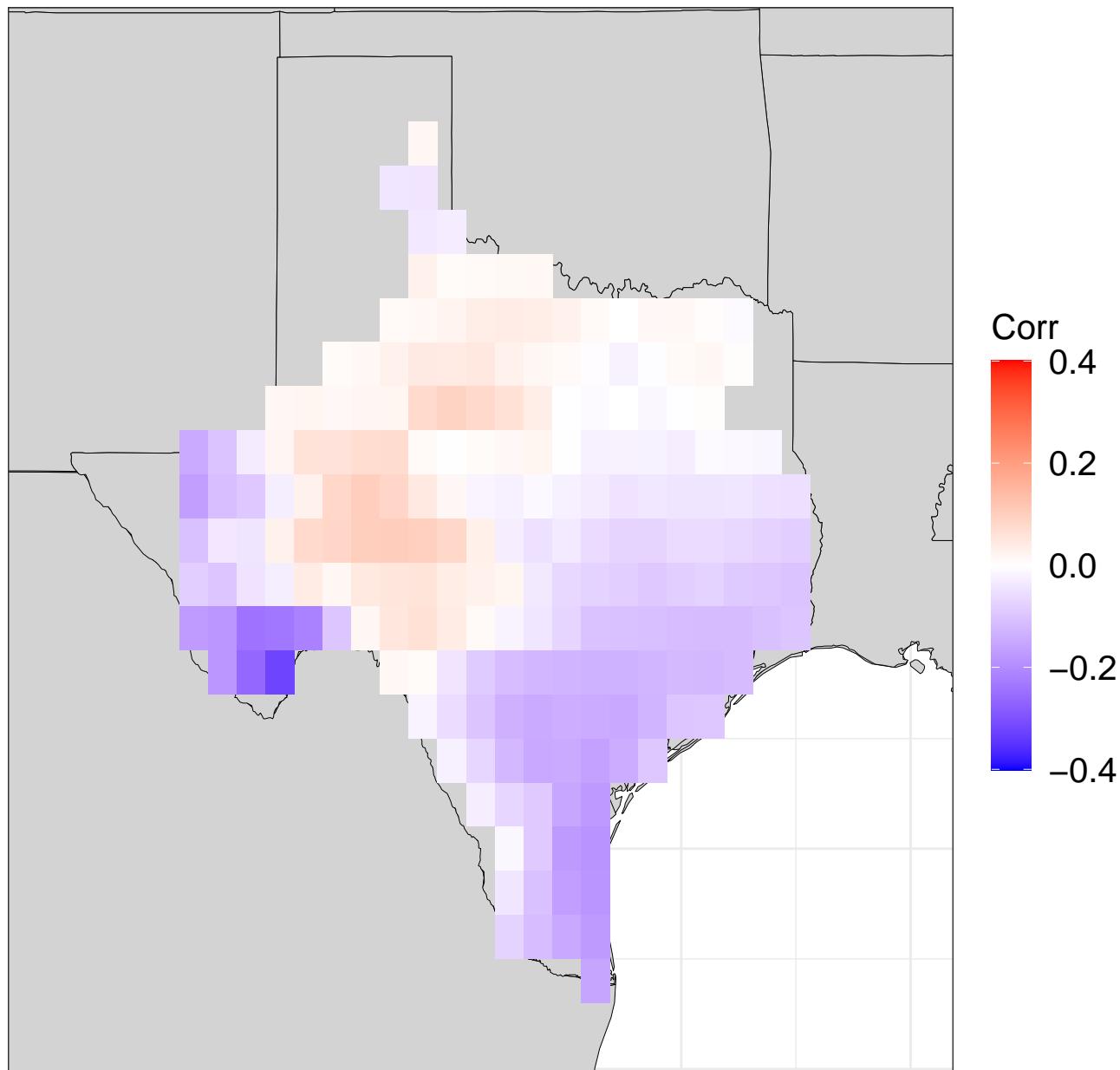
Hourly Solar for Site 92



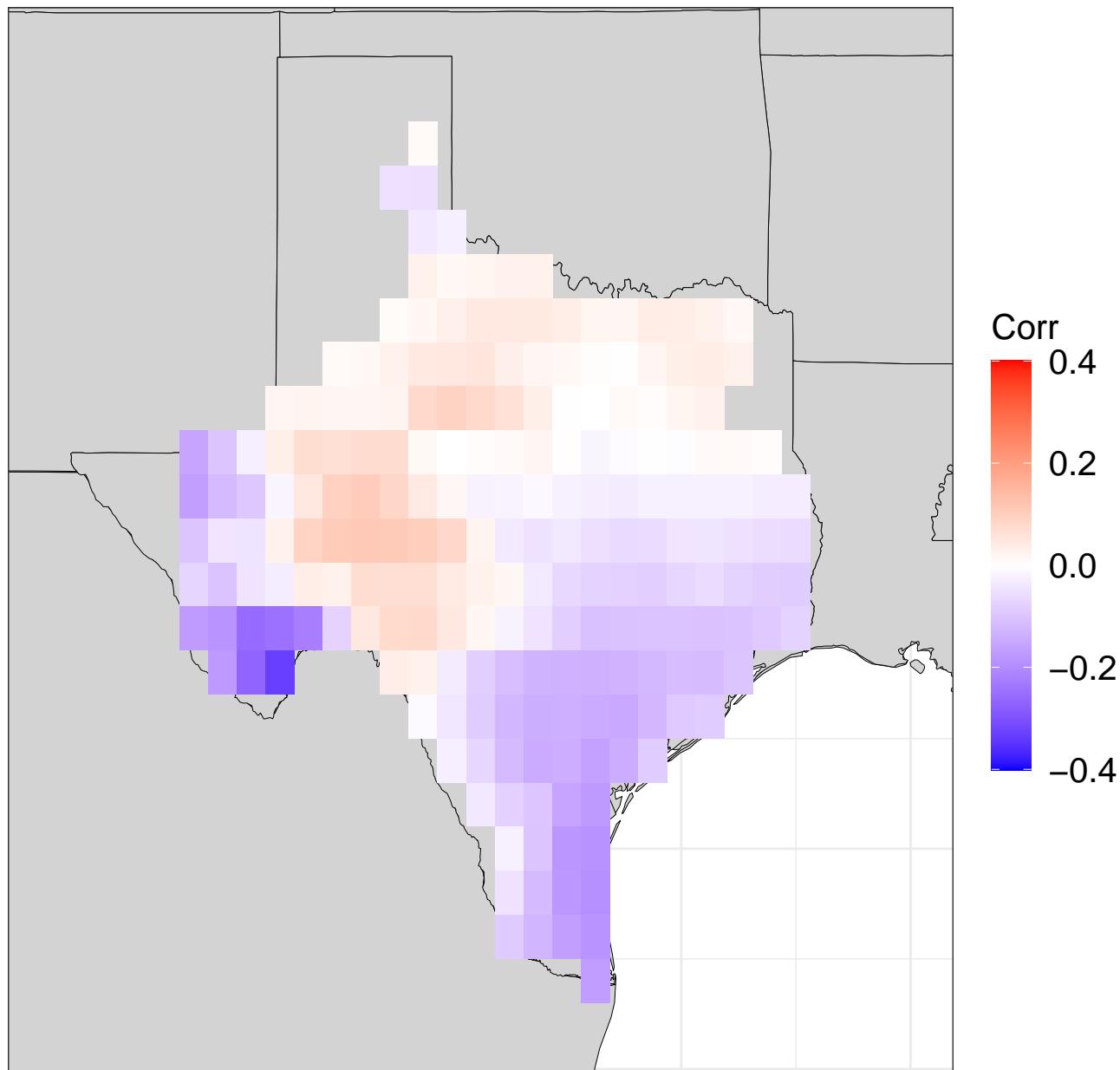
Simulation vs Data Correlation



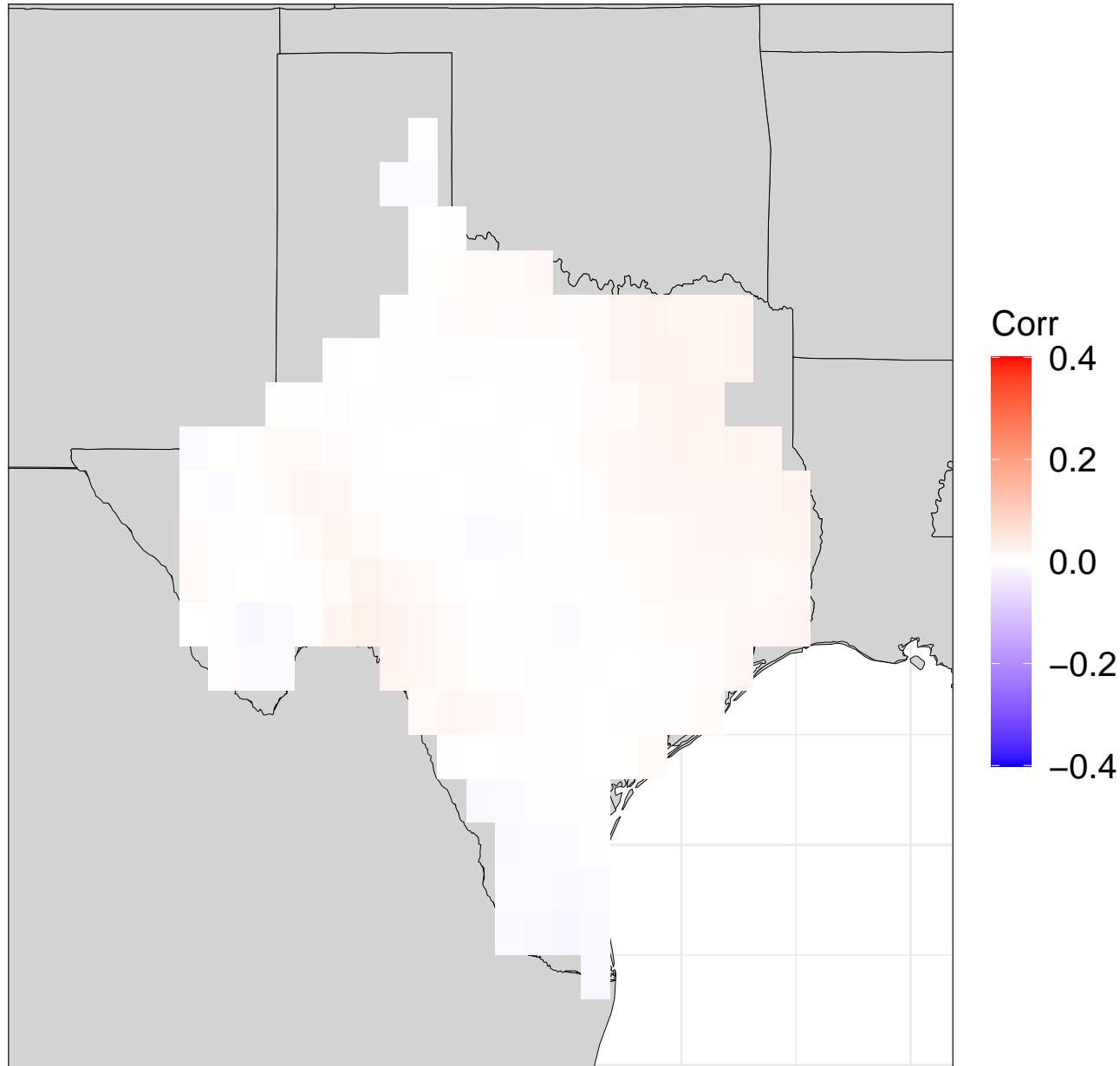
Reanalysis Data Correlation

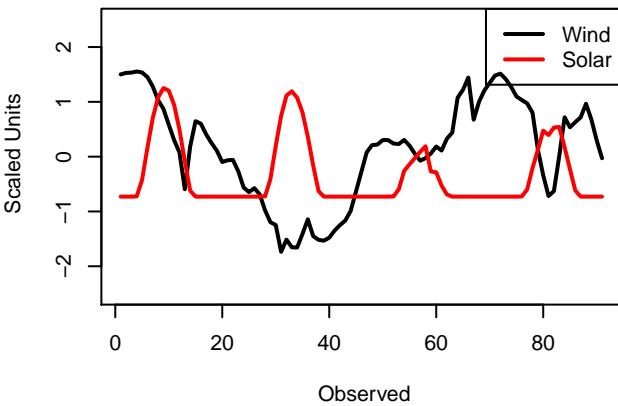
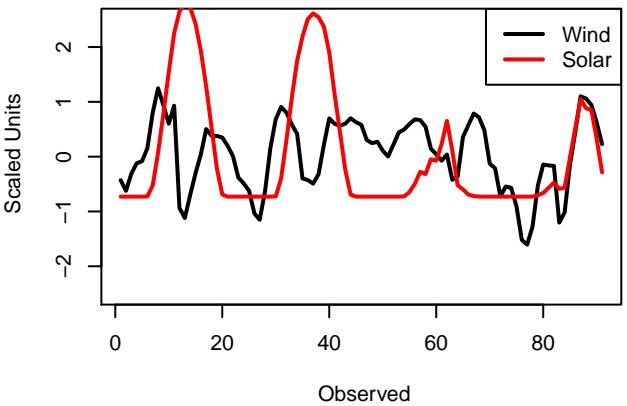
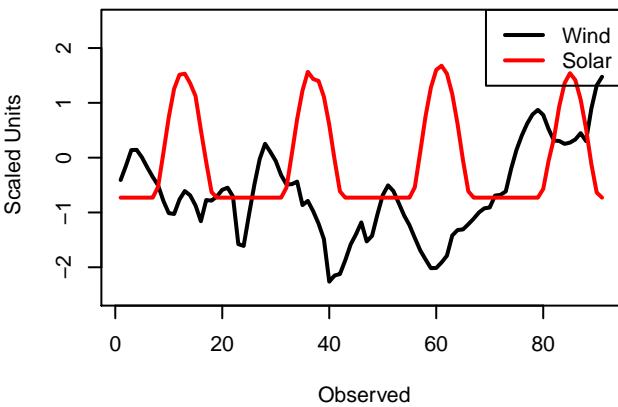
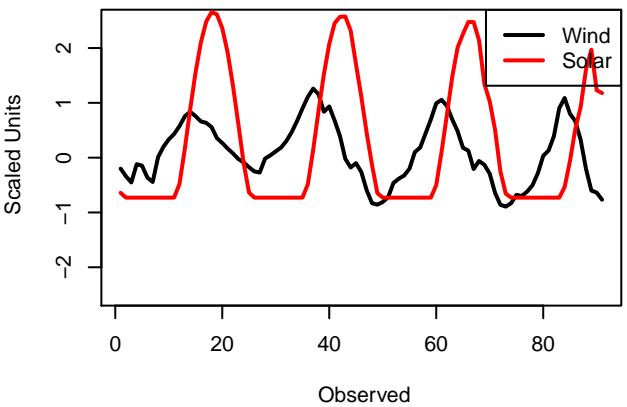
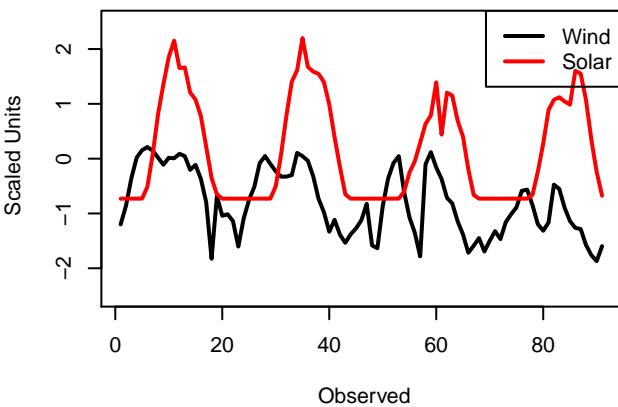
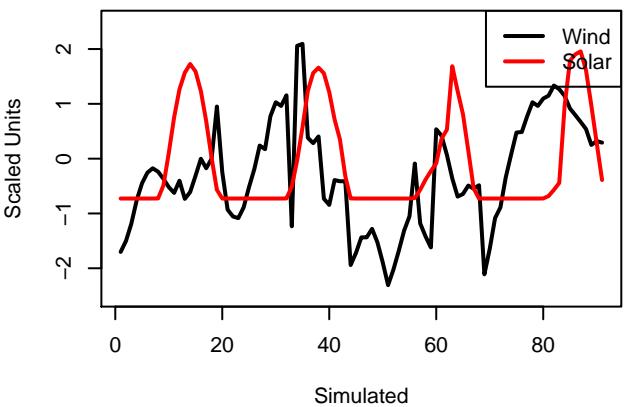


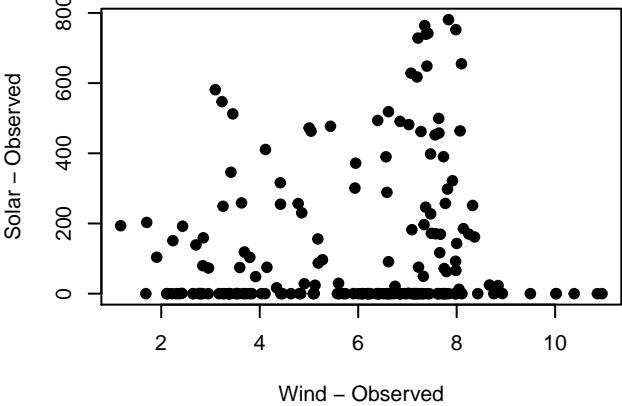
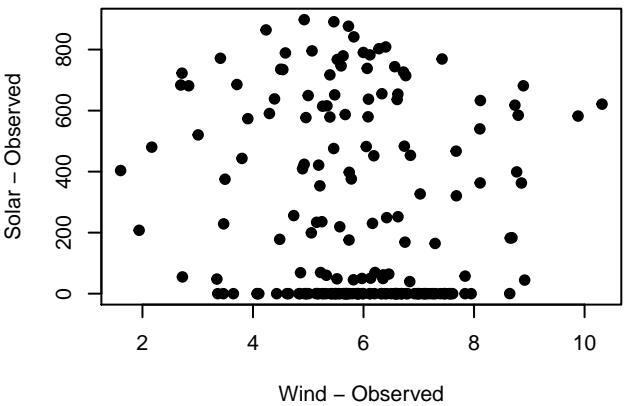
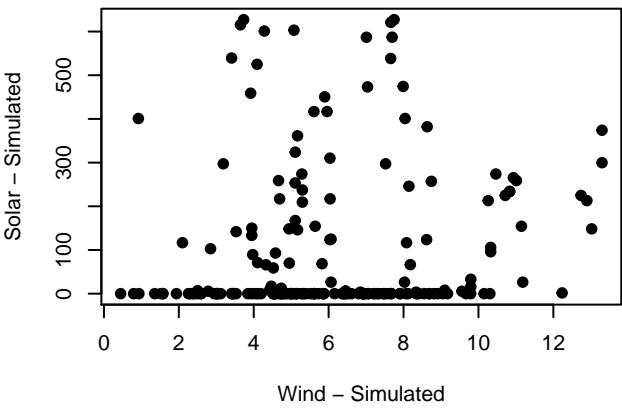
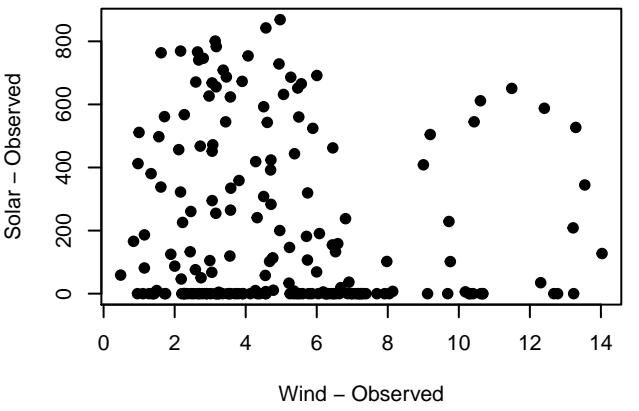
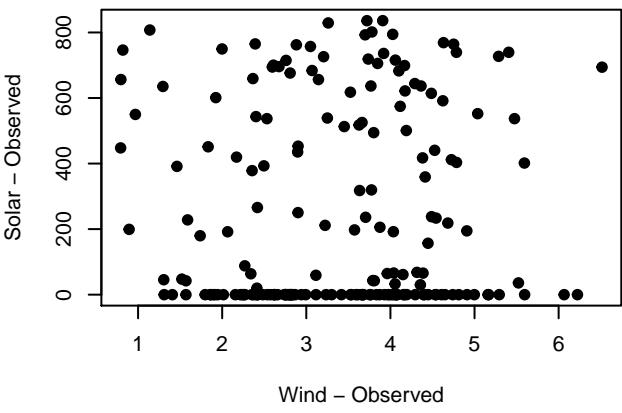
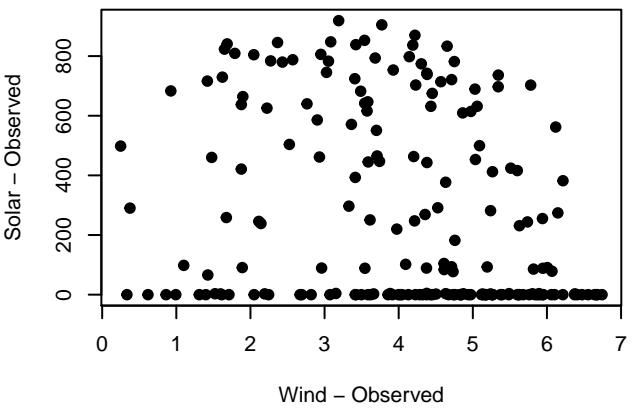
Median Simulation Correlation



Difference between Renalysis Data and Simulations

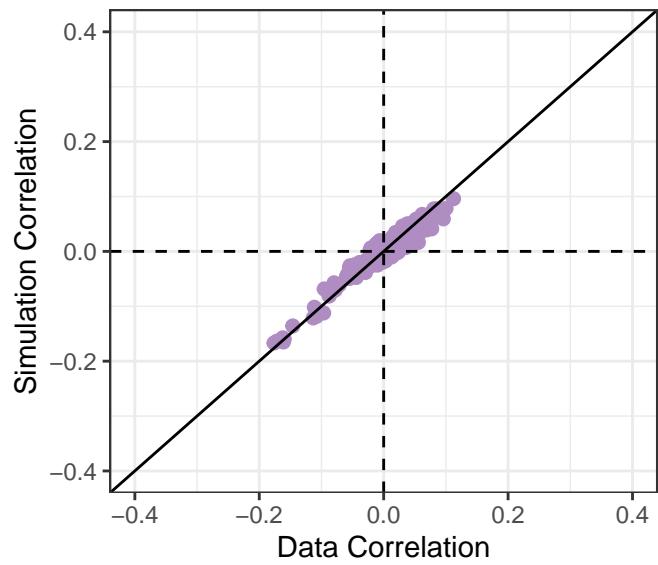






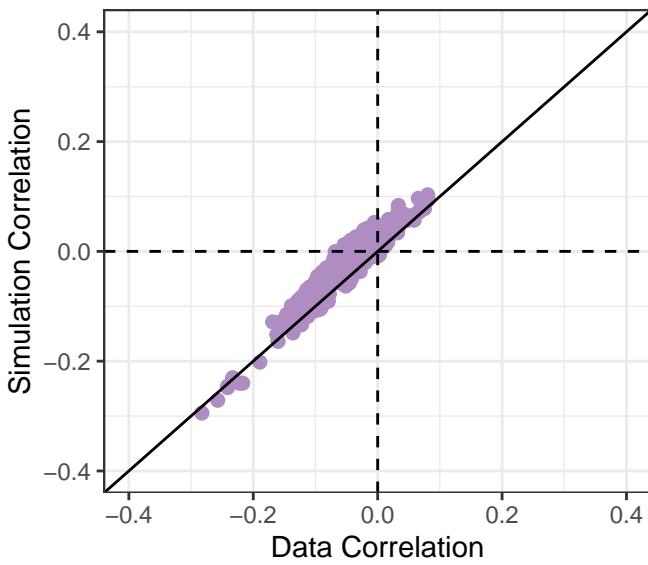
Simulation vs Data Correlation

Dec–Jan–Feb



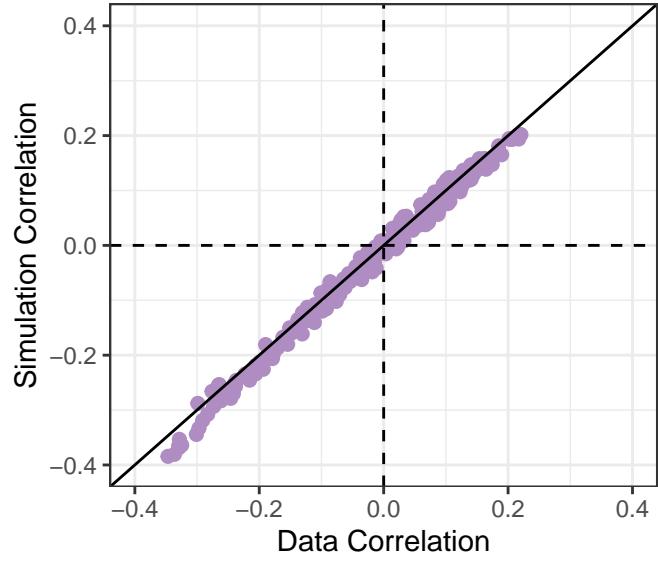
Simulation vs Data Correlation

Mar–April–May



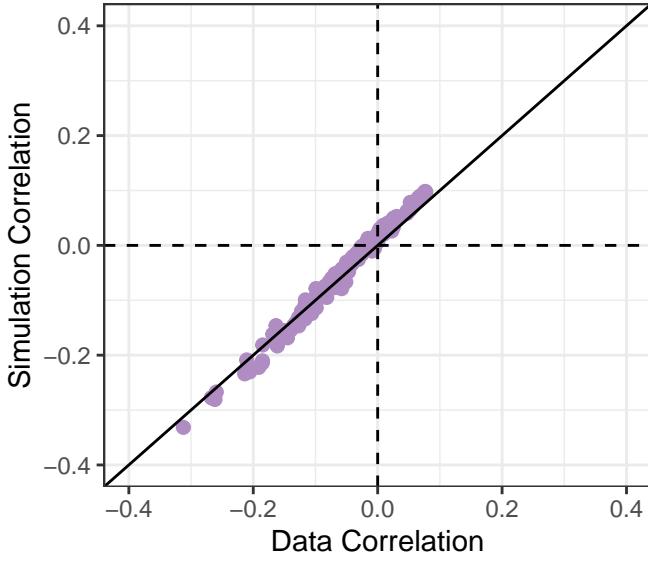
Simulation vs Data Correlation

Jun–July–Aug



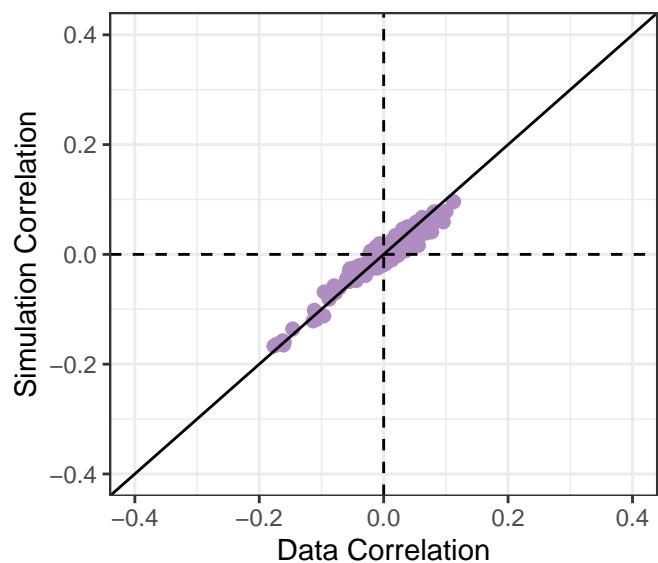
Simulation vs Data Correlation

Sept–Oct–Nov

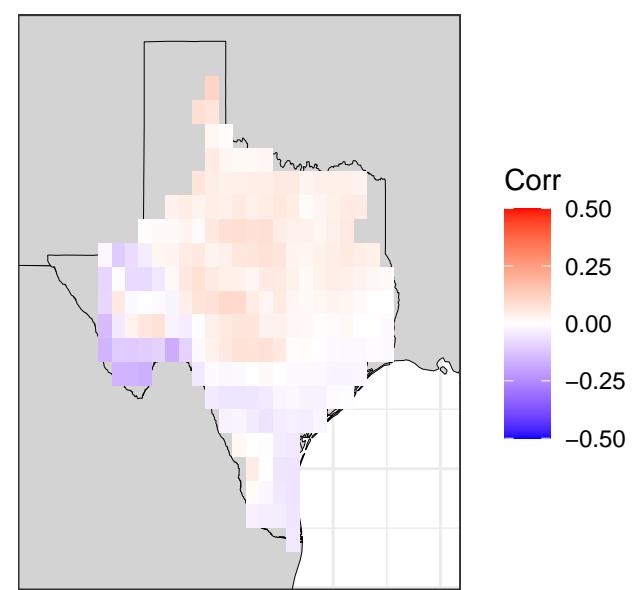


Simulation vs Data Correlation

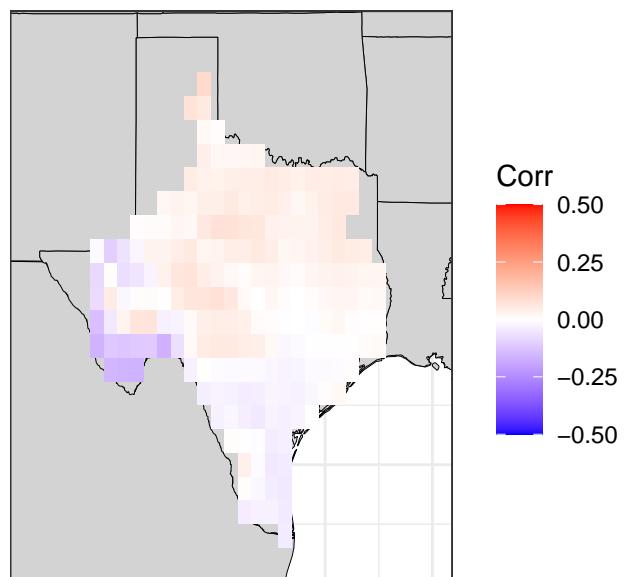
Dec–Jan–Feb



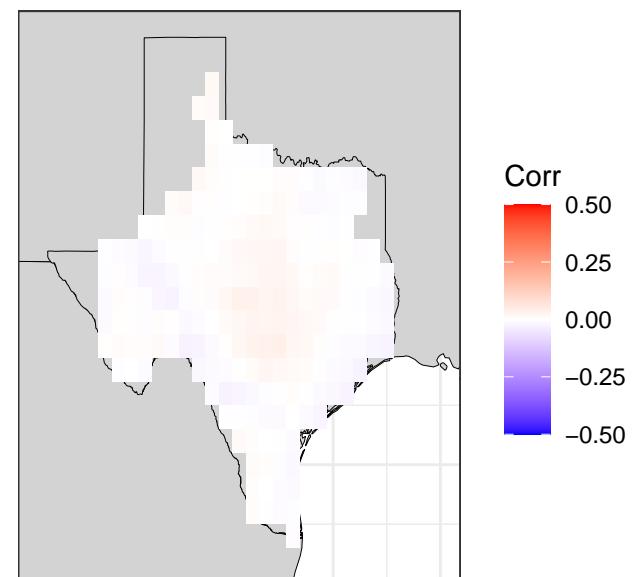
Reanalysis Data Correlation – DJF



Median Simulation Correlation – DJF

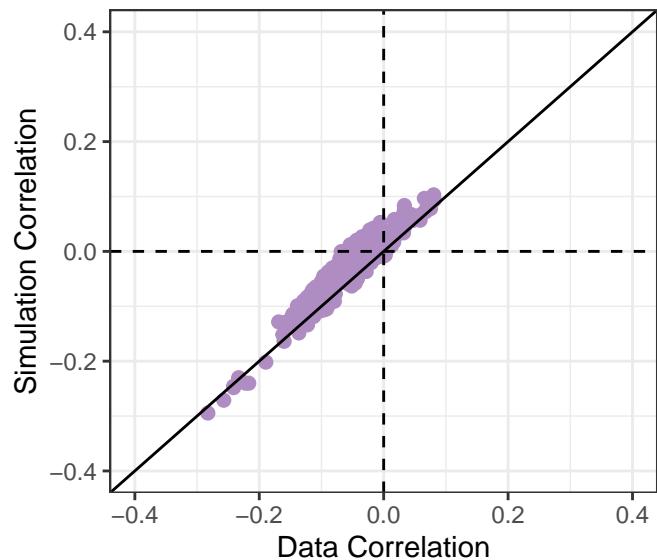


Difference between Data and Simulations

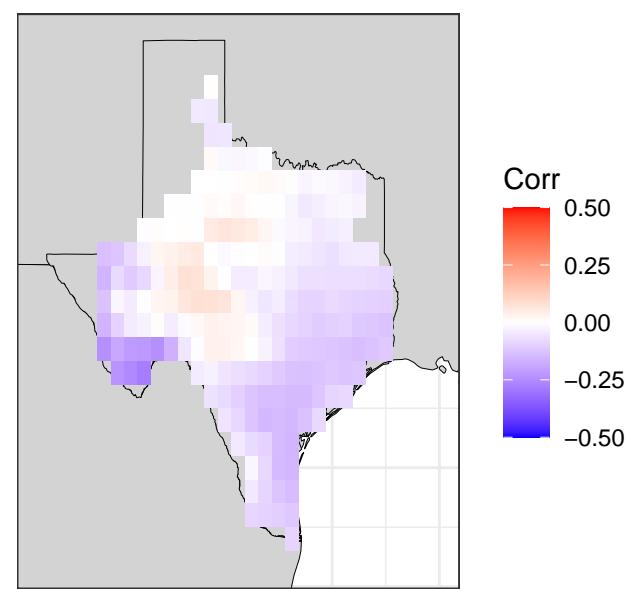


Simulation vs Data Correlation

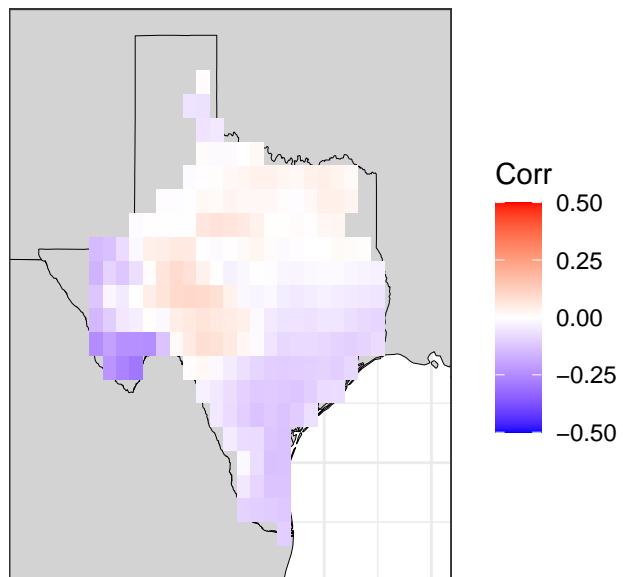
Mar–April–May



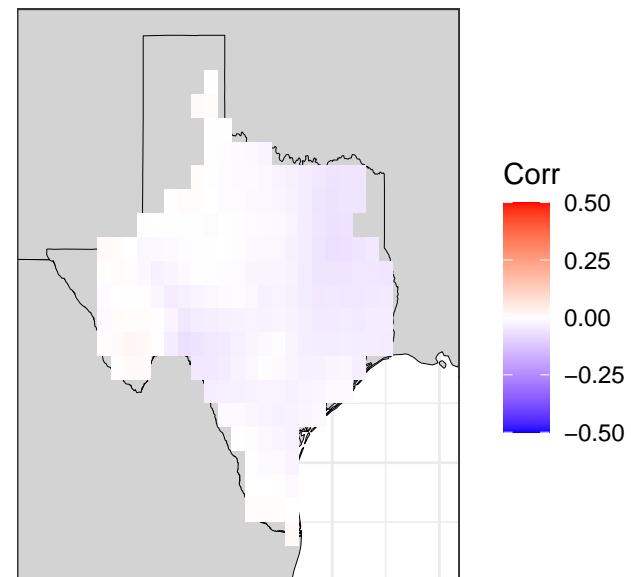
Reanalysis Data Correlation – MAM



Median Simulation Correlation – MAM

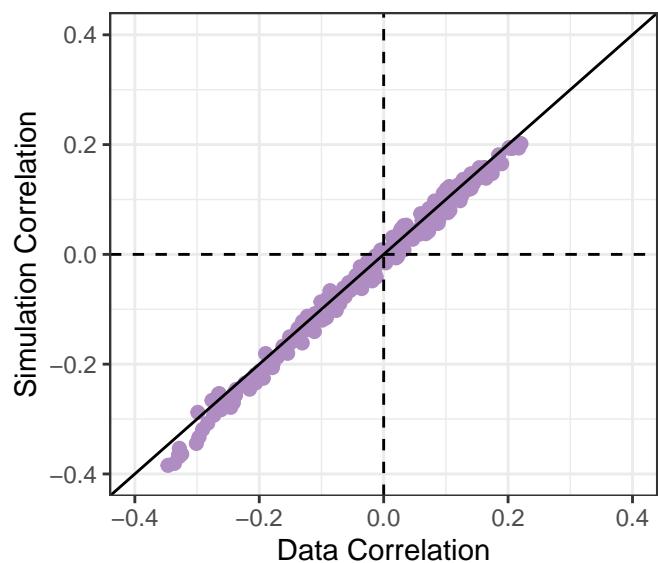


Difference between Data and Simulations

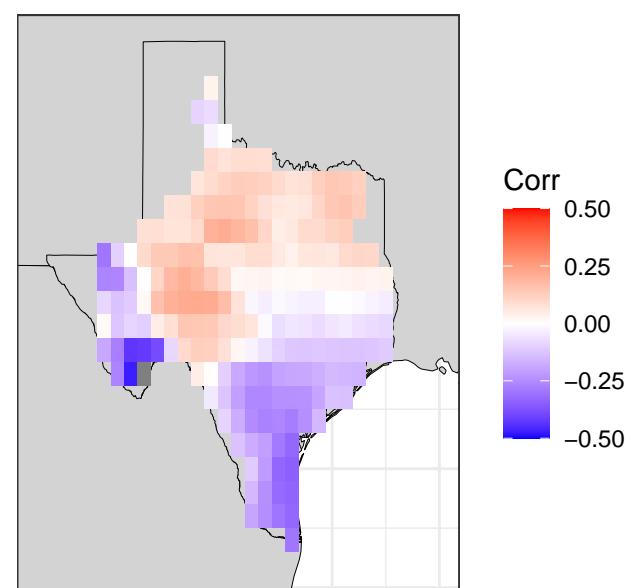


Simulation vs Data Correlation

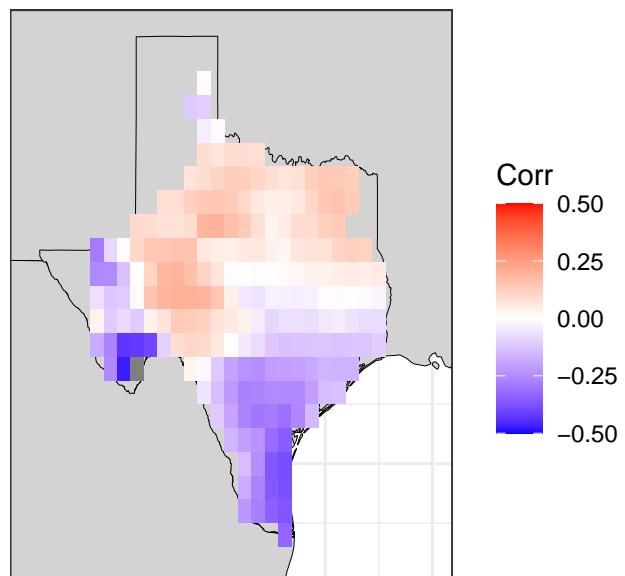
Jun–July–Aug



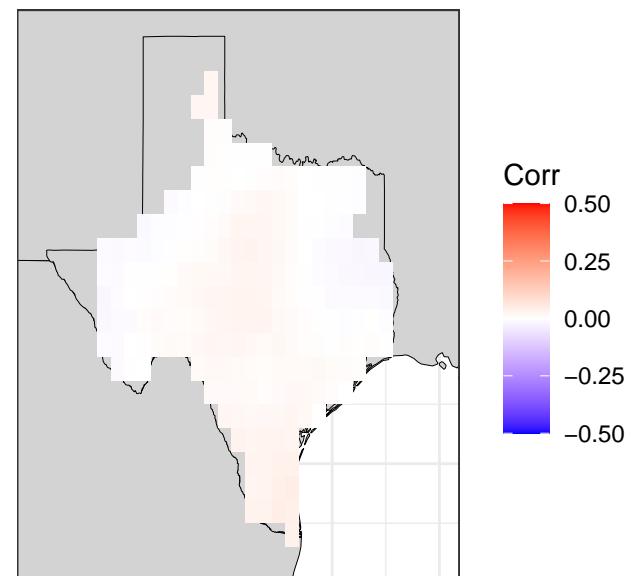
Reanalysis Data Correlation – JJA



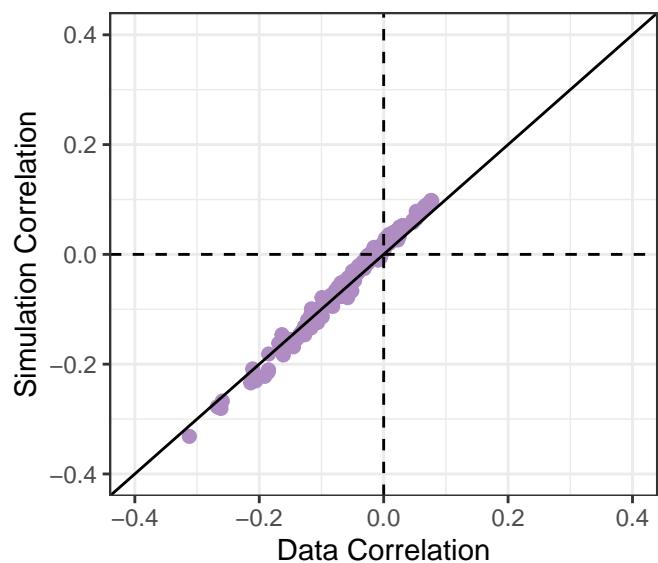
Median Simulation Correlation – JJA



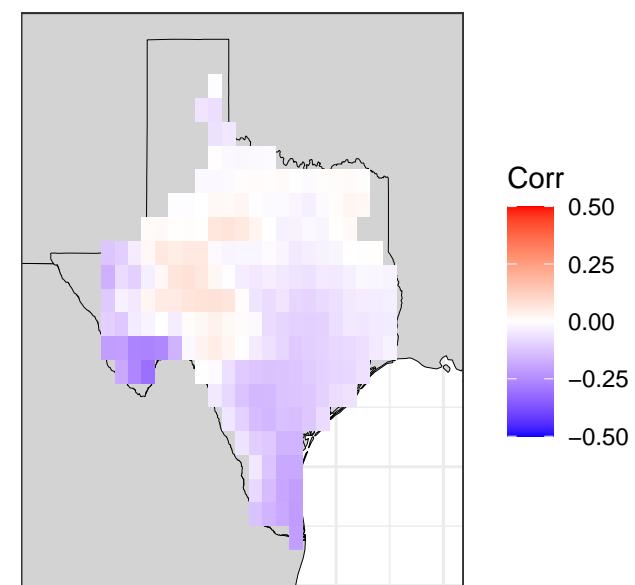
Difference between Data and Simulations



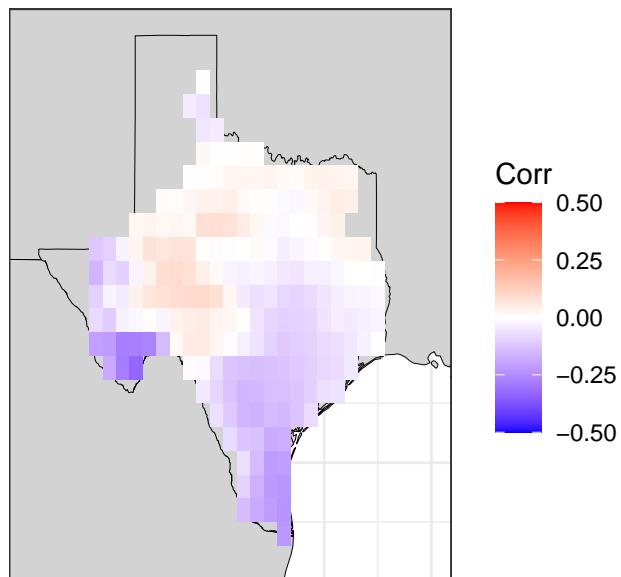
Simulation vs Data Correlation
Sept–Oct–Nov



Reanalysis Data Correlation – SON



Median Simulation Correlation – SON



Difference between Data and Simulations

