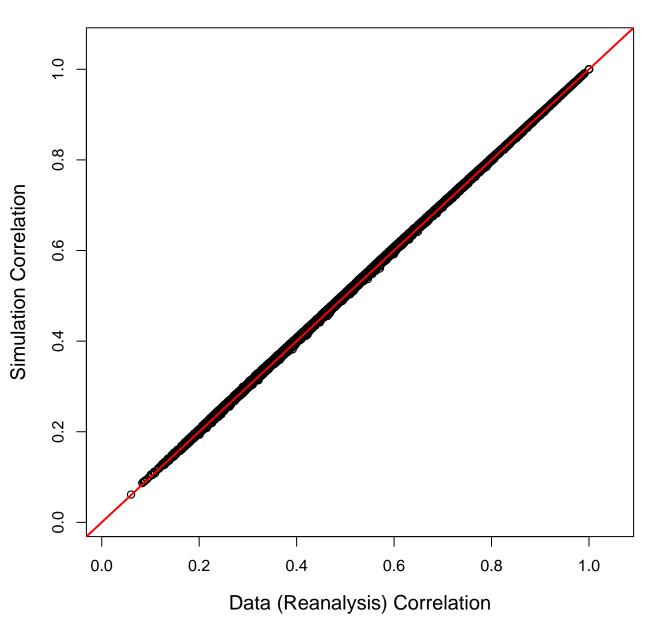
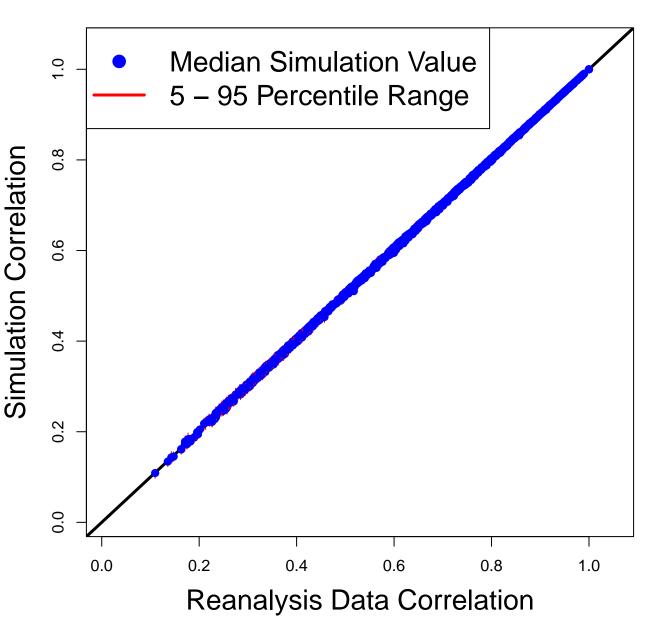
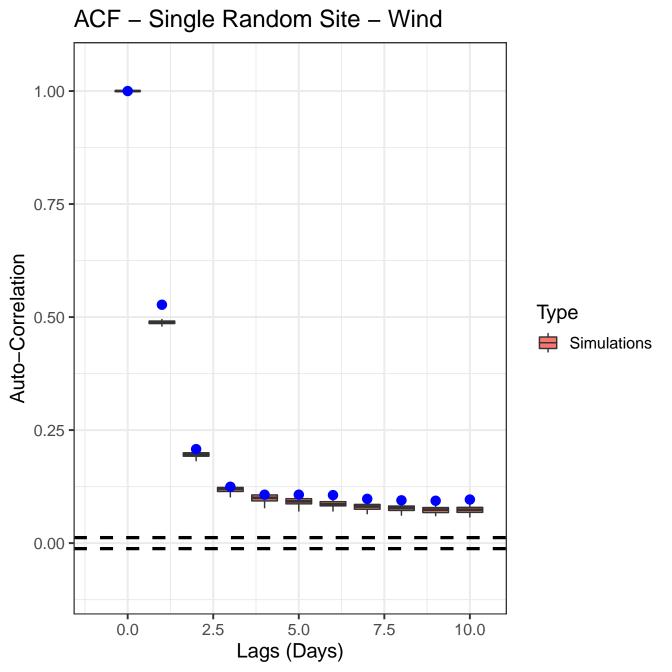


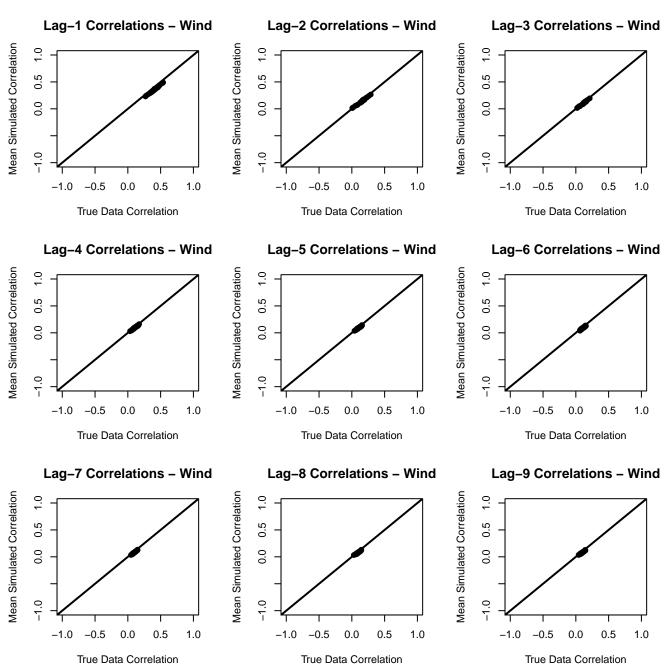
### **Cross Site Correlations – Wind**

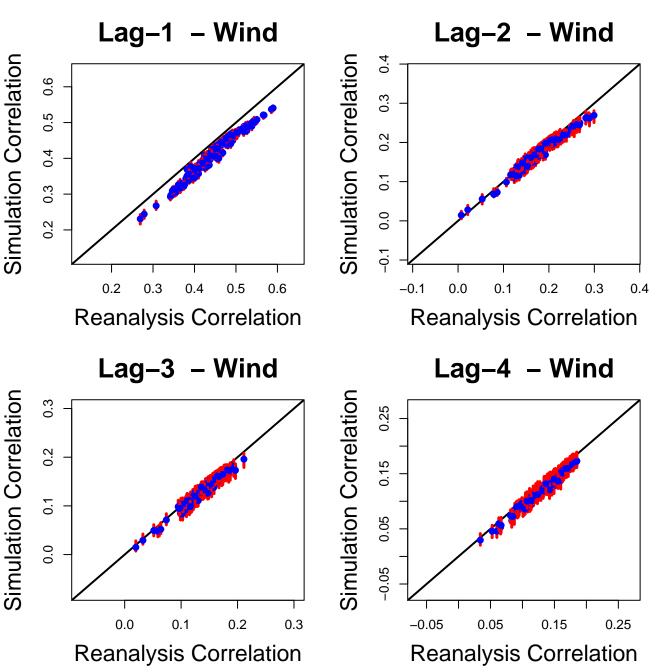


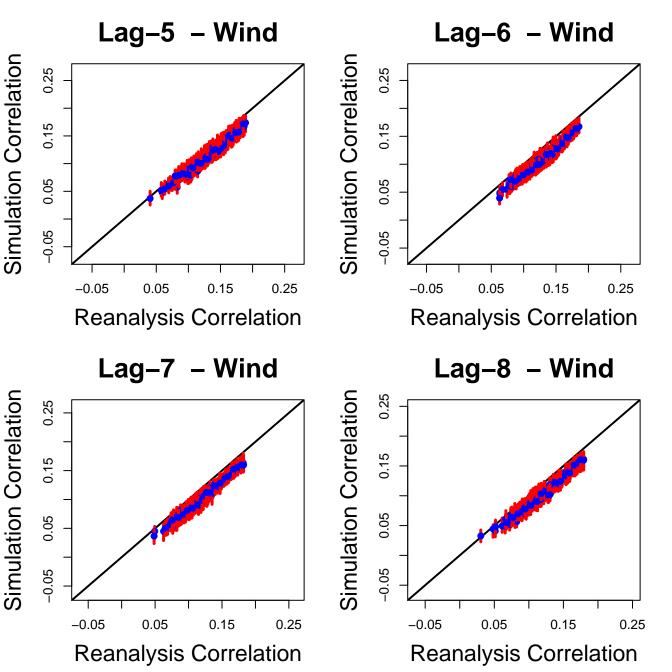
### **Cross Site Correlations – Wind**



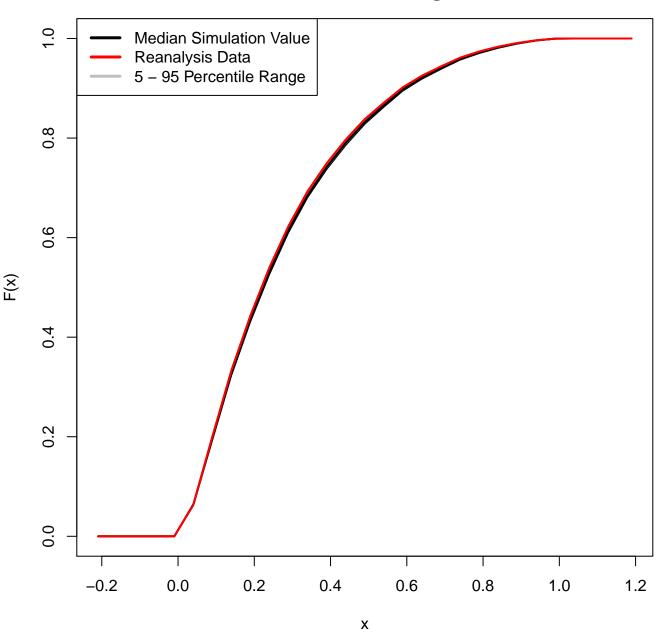




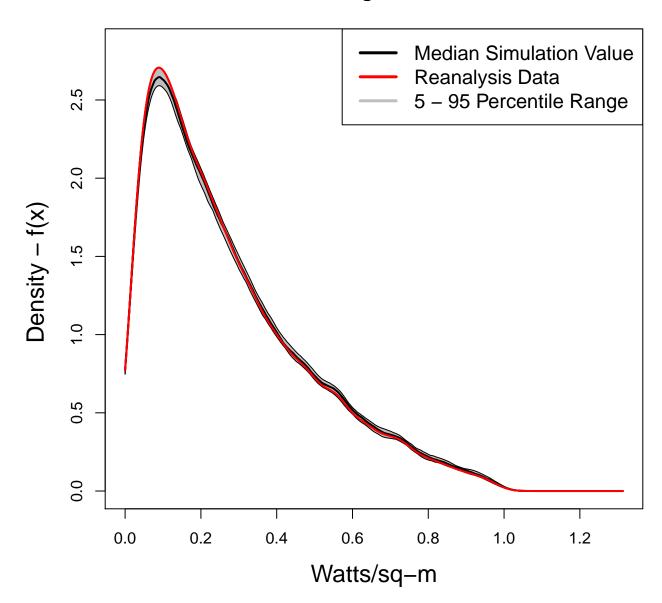


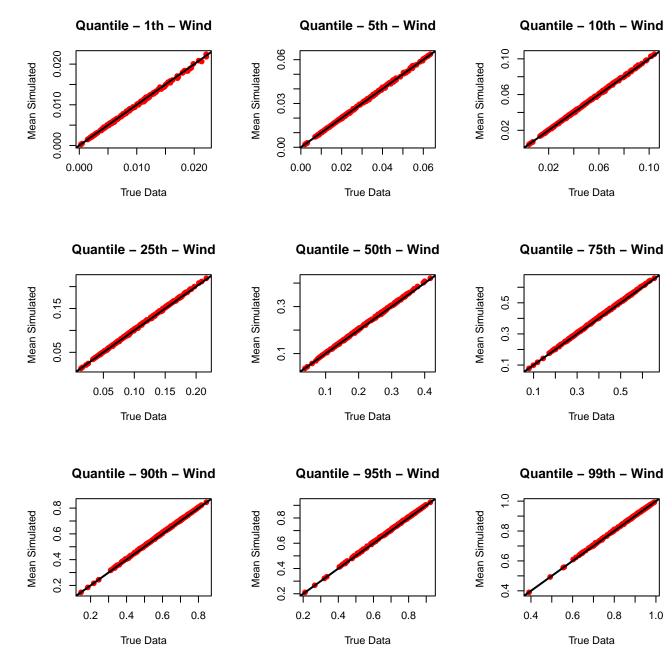


#### True vs Simulated CDF for Single Site – Wind

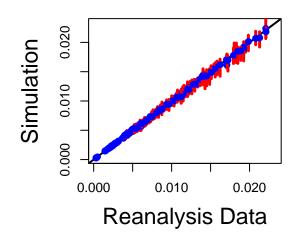


#### PDF at a single site - Wind

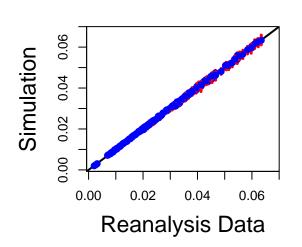




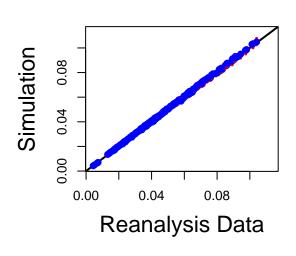
### 1th Quantile - Wind



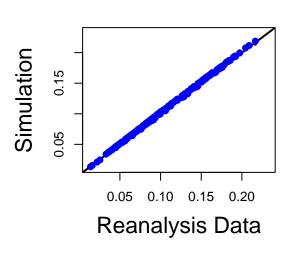
### 5th Quantile – Wind



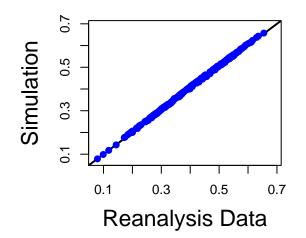
## 10th Quantile - Wind



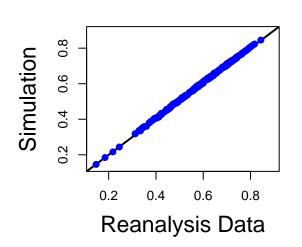
# 25th Quantile - Wind



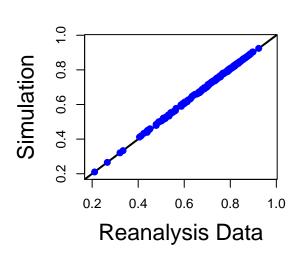
### 75th Quantile – Wind



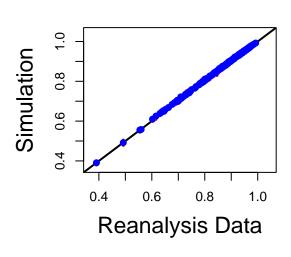
# 90th Quantile - Wind



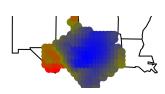
# 95th Quantile - Wind



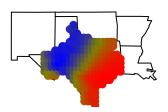
# 99th Quantile - Wind



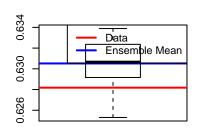
PC-1 - Wind-63%



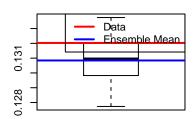
PC-2 - Wind-13%



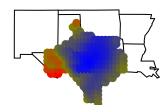
Simulated PC-1 Variance Wind



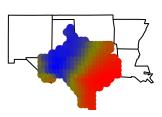
Simulated PC-2 Variance Wind



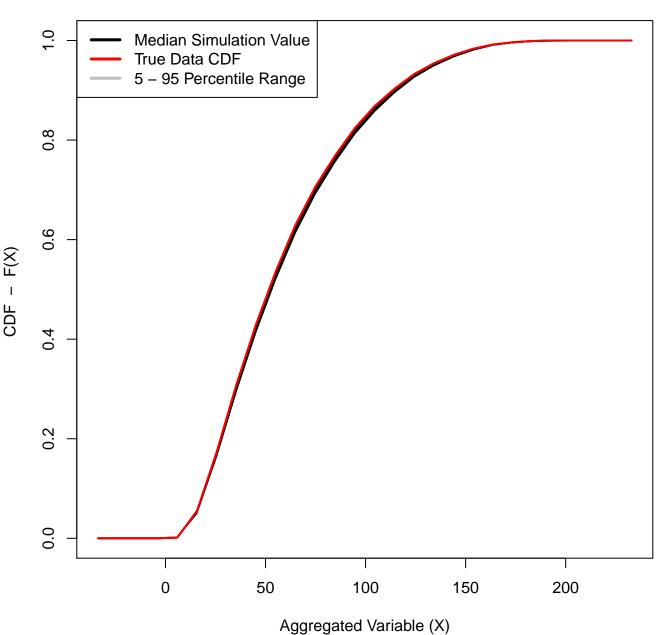
Ensemble Mean PC-1 - Wind-63%



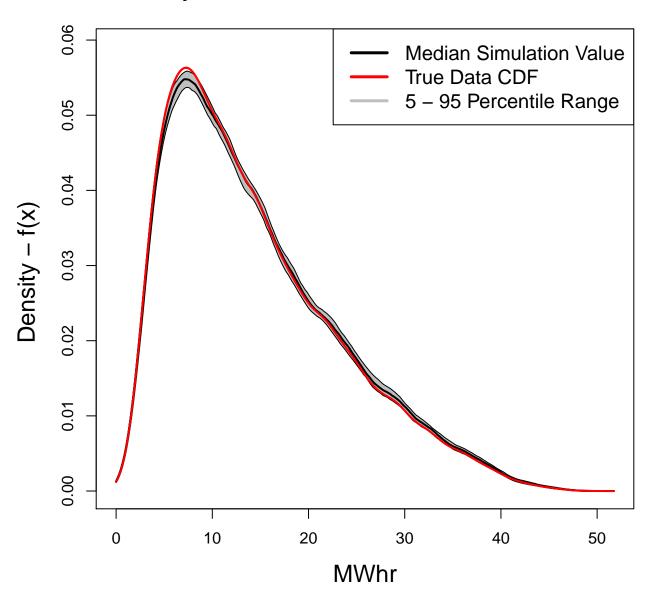
Ensemble Mean PC-2 - Wind-13%

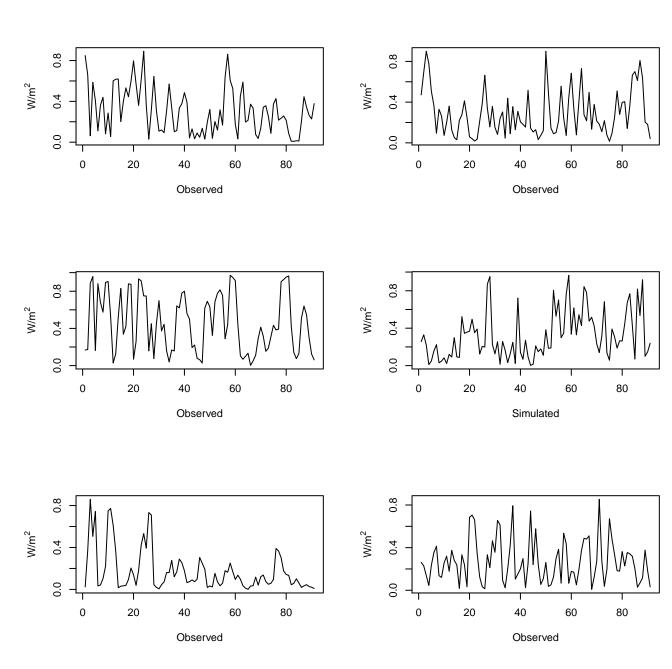


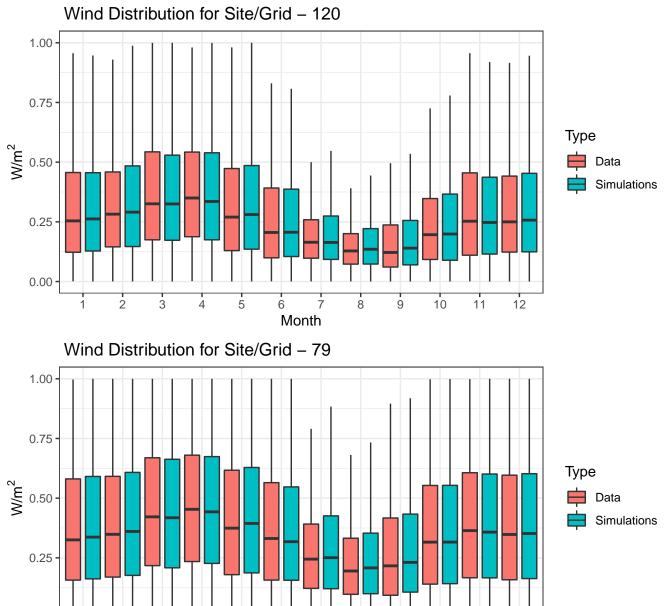
#### Simulated CDF for Entire Field - Wind



#### **Daily Generation Potential across ERCOT – Wind**

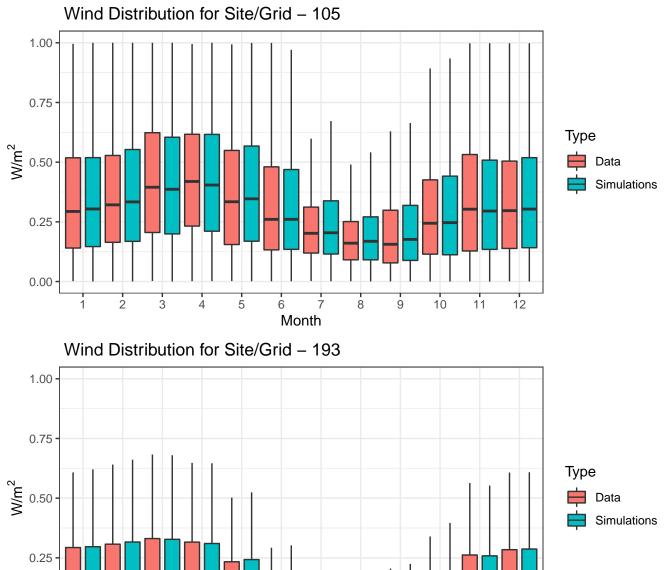


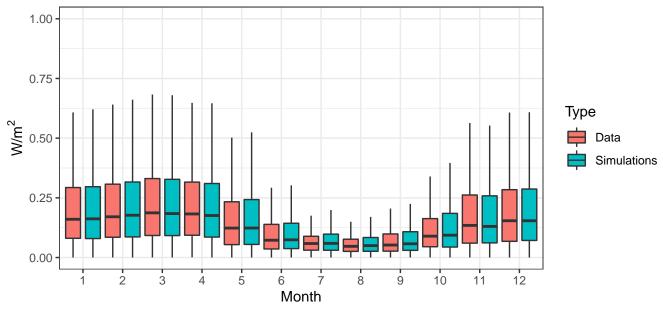


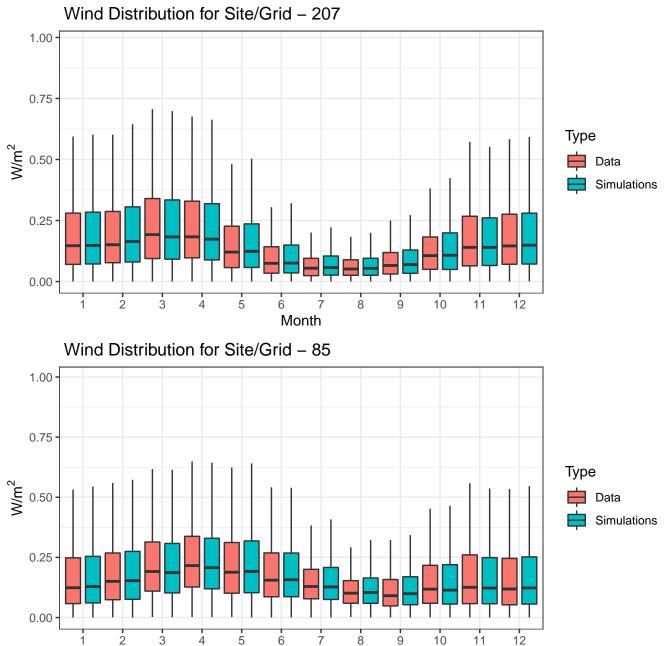


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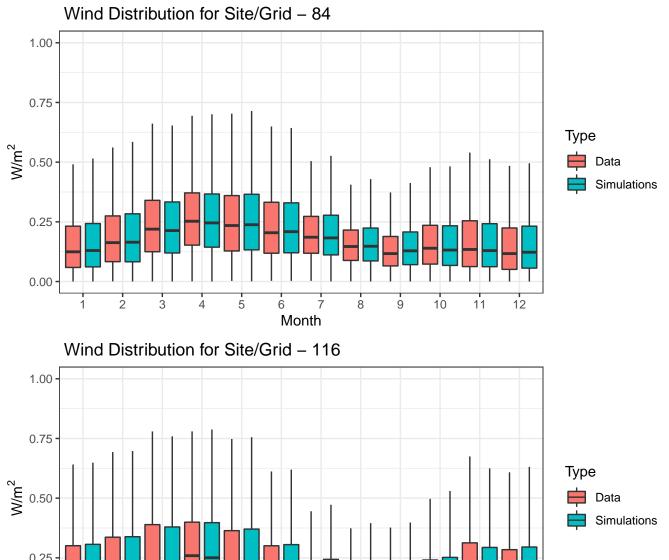
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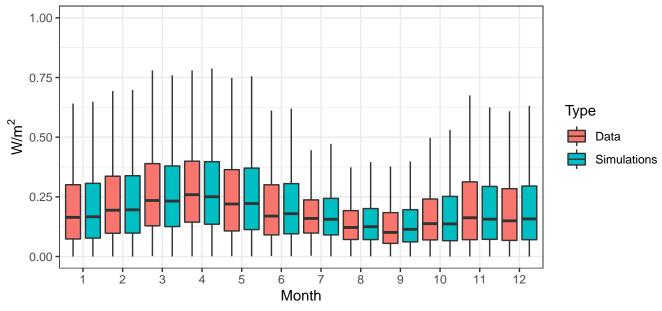


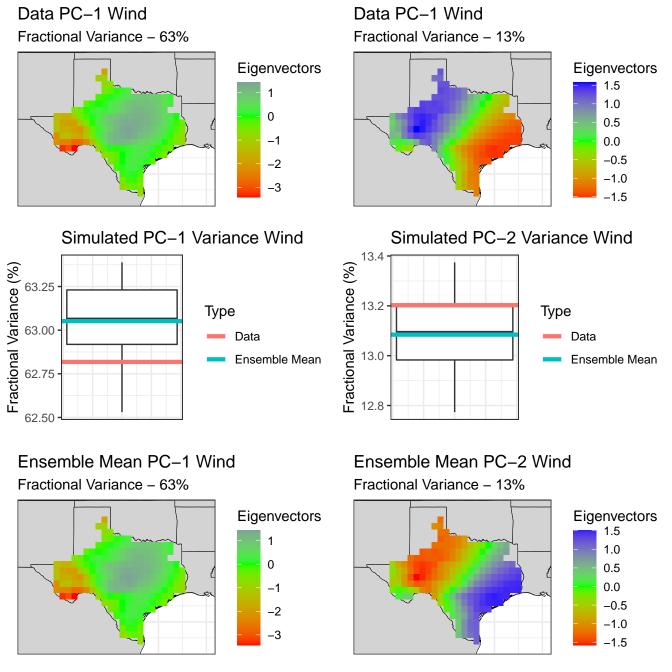




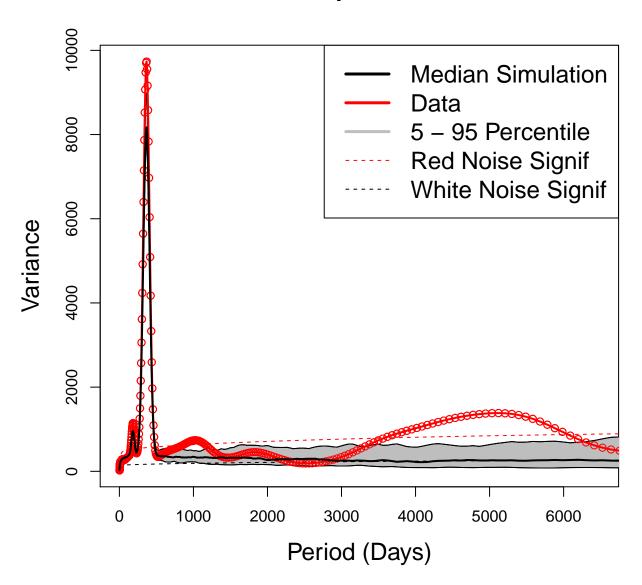
Month



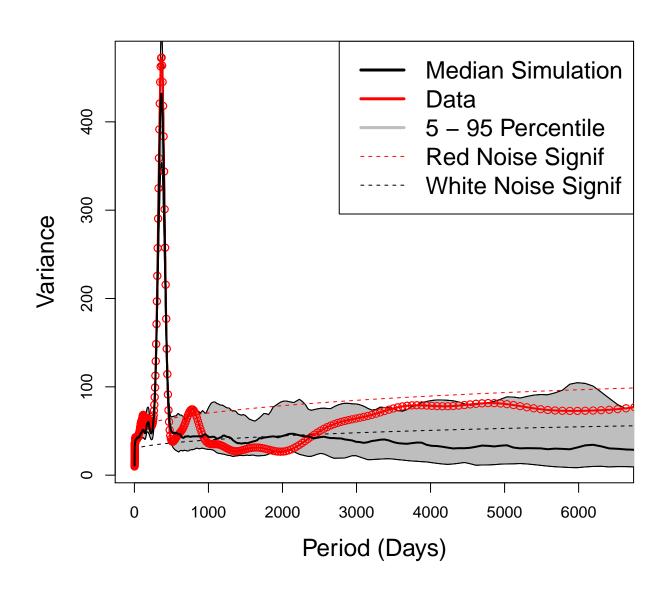


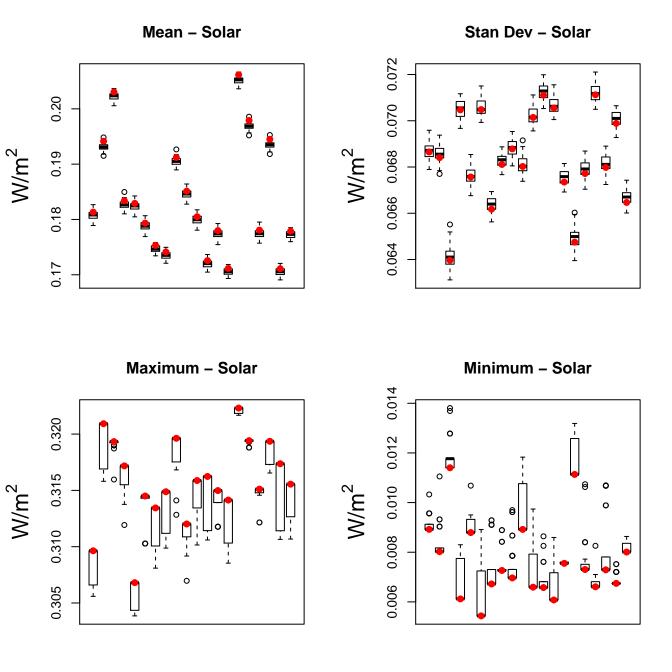


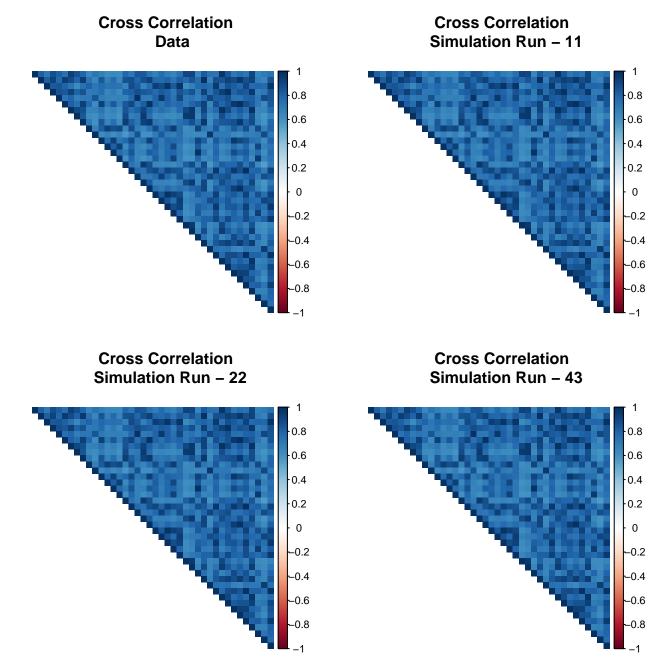
## Global Wavelet Spectrum PC - 1 Wind



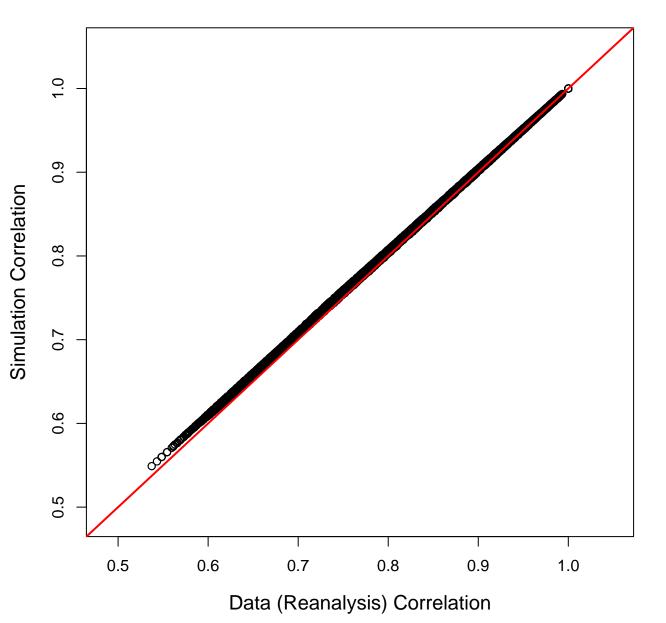
## Global Wavelet Spectrum PC - 2 Wind



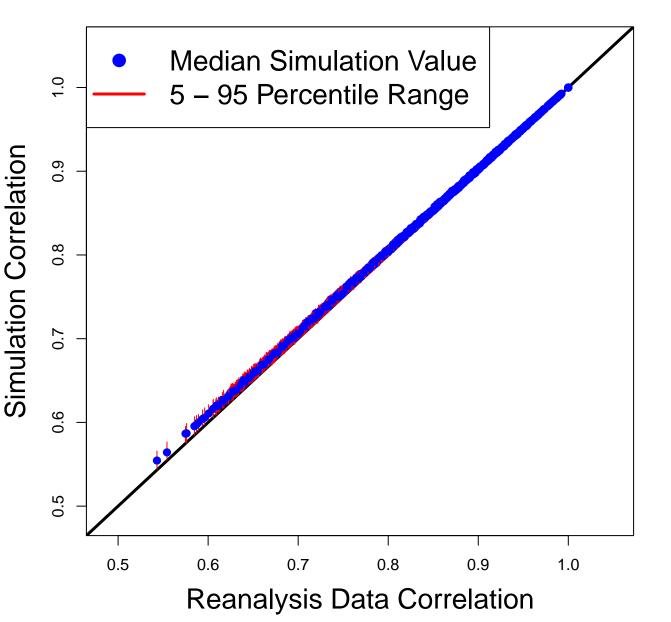


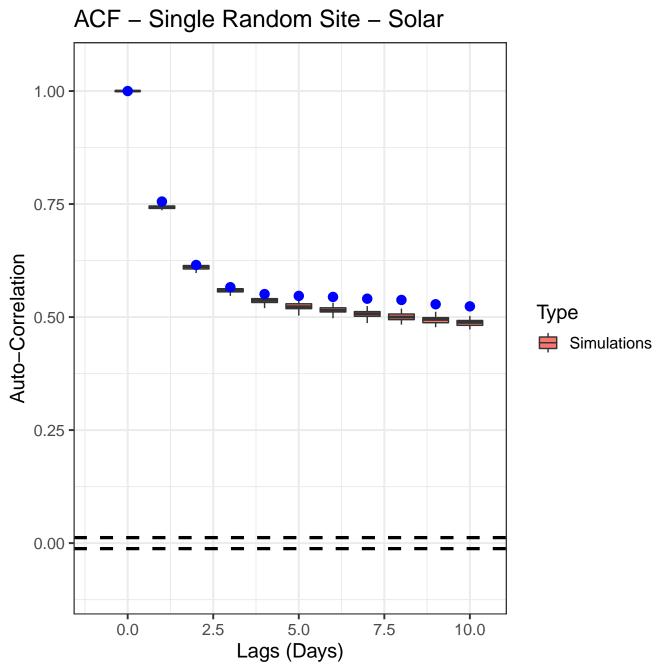


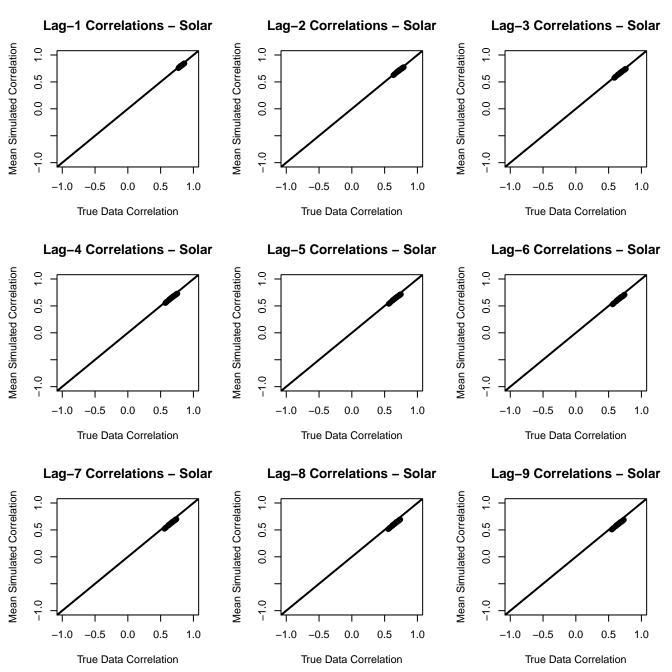
## **Cross Site Correlations – Solar**

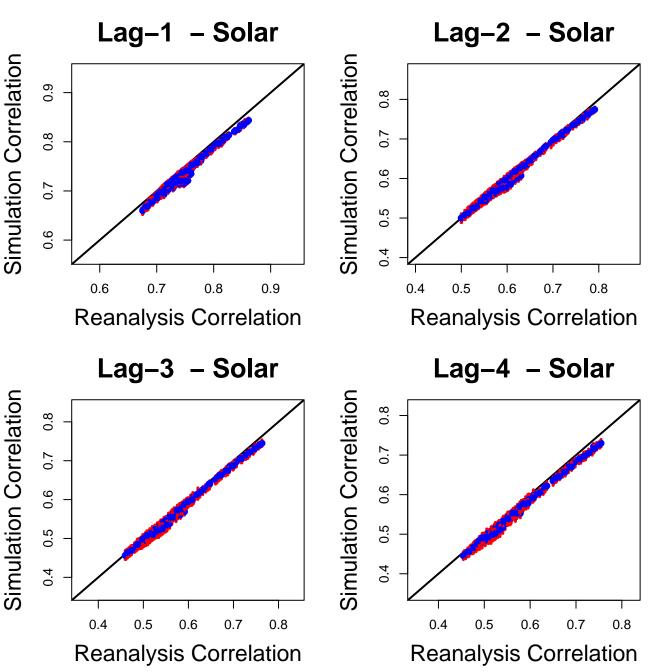


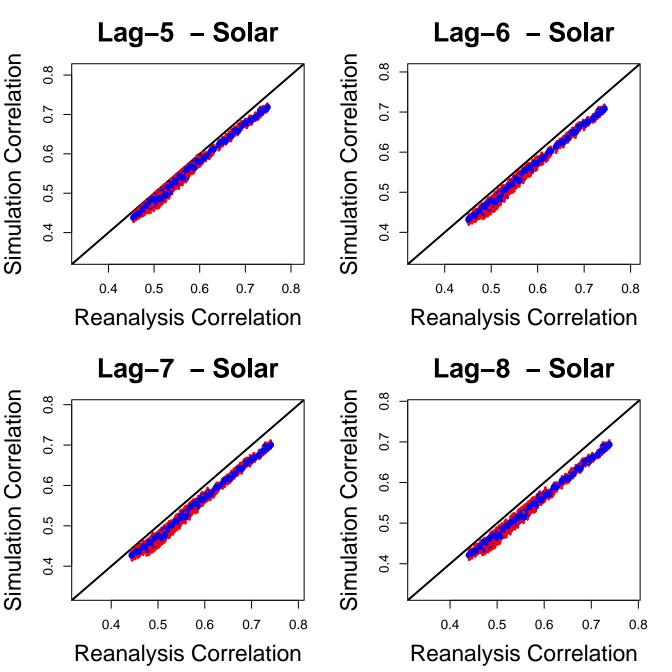
### **Cross Site Correlations – Solar**



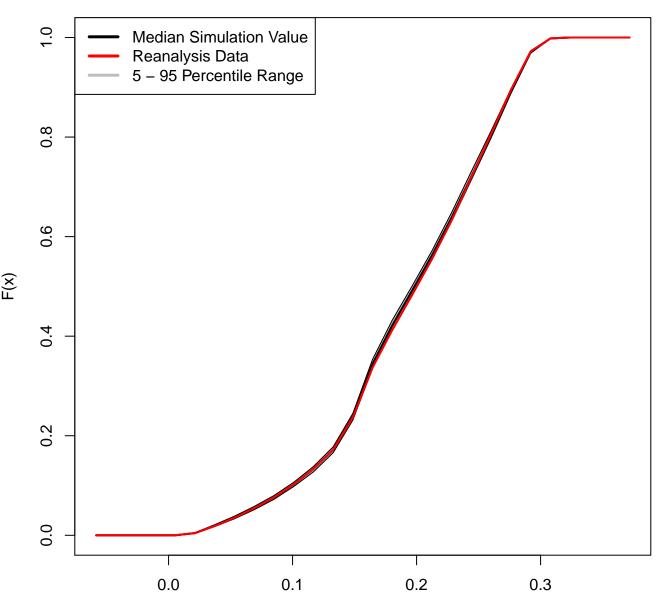






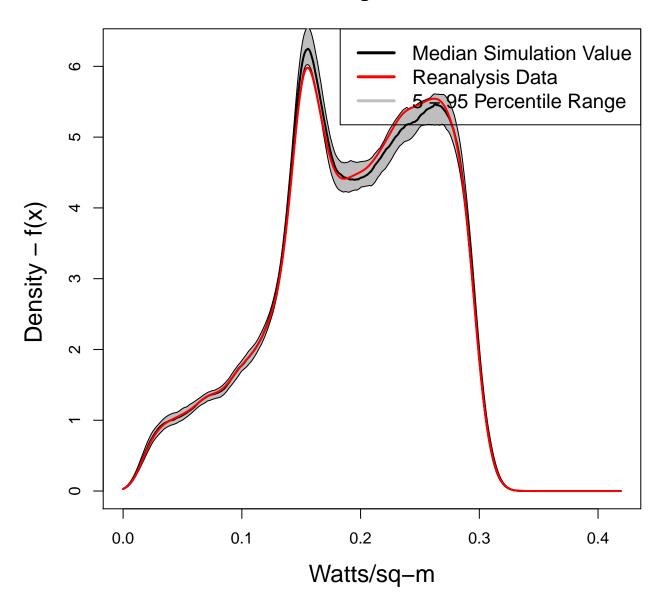


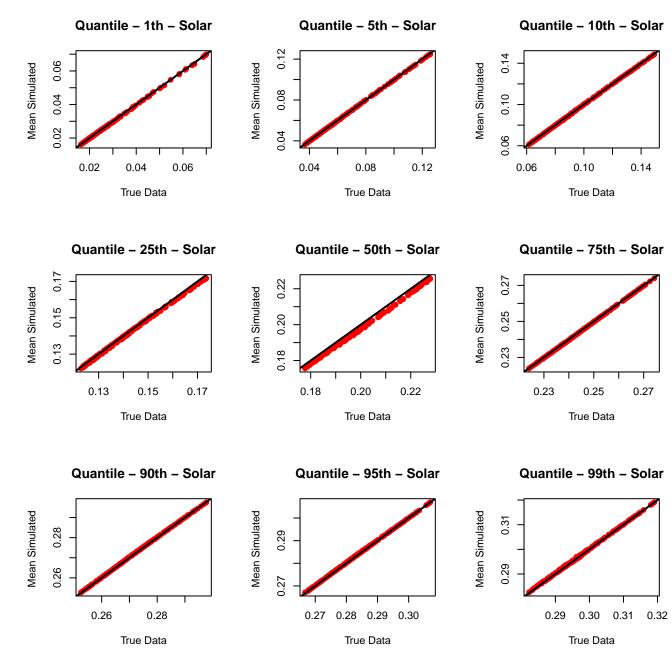
#### True vs Simulated CDF for Single Site – Solar



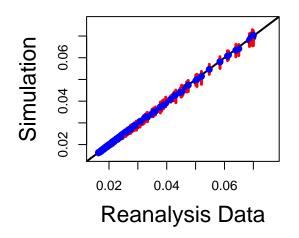
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#### PDF at a single site - Solar

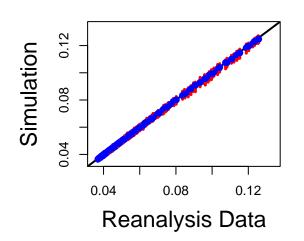




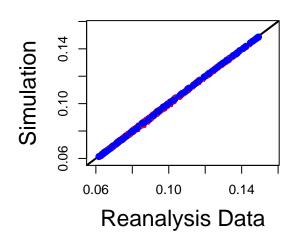
### 1th Quantile - Solar



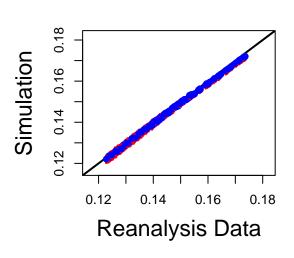
### 5th Quantile – Solar



### 10th Quantile - Solar



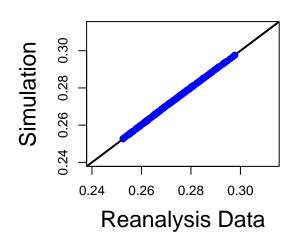
# 25th Quantile - Solar



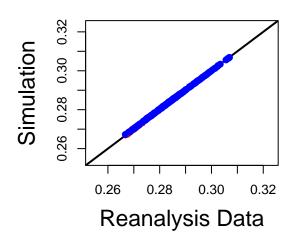
## 75th Quantile – Solar

# Simulation O.22 0.24 0.26 0.28 Reanalysis Data

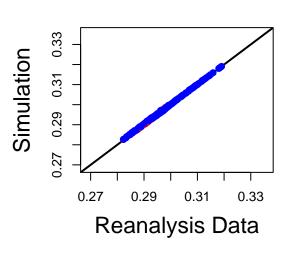
## 90th Quantile - Solar



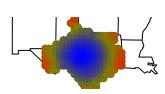
## 95th Quantile - Solar



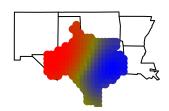
## 99th Quantile - Solar



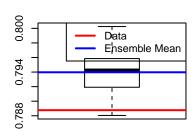
PC-1 - Solar-79%



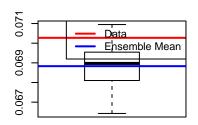
PC-2 - Solar-7%



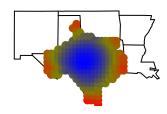
Simulated PC-1 Variance Solar



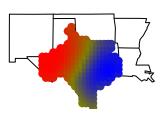
Simulated PC-2 Variance Solar



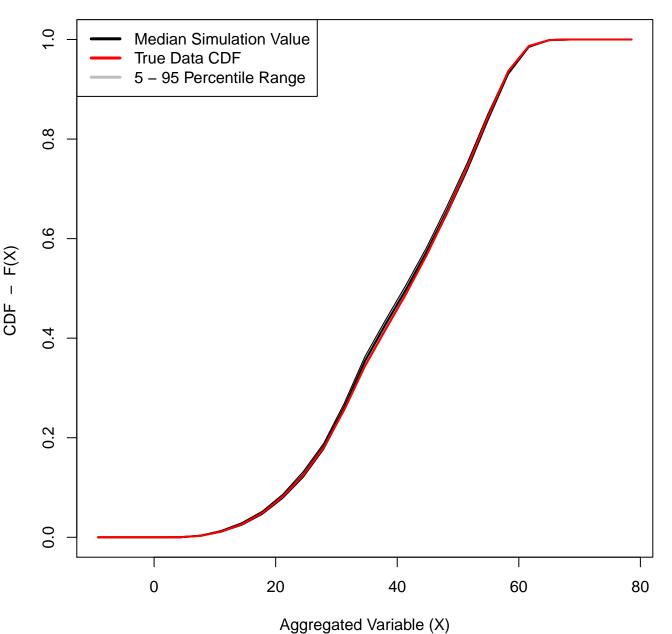
Ensemble Mean PC-1 - Solar-79%



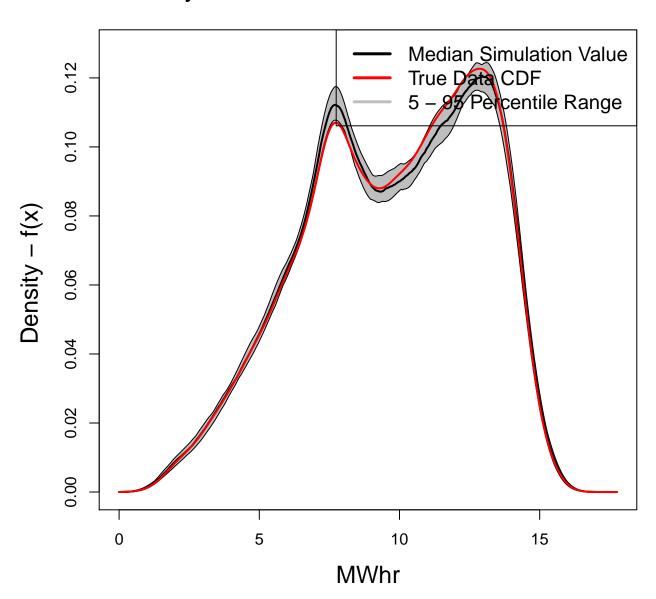
Ensemble Mean PC-2 - Solar-7%

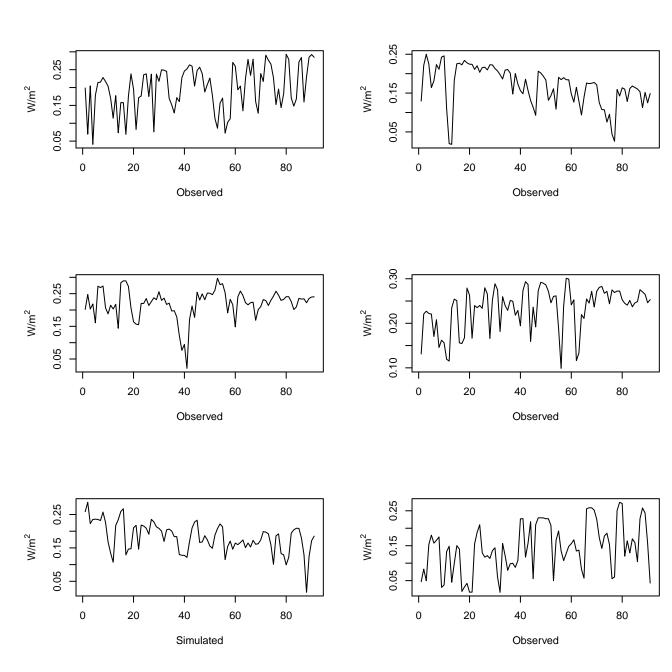


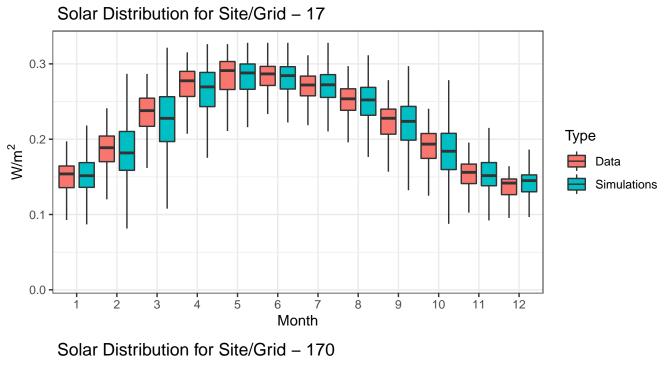
### Simulated CDF for Entire Field - Solar

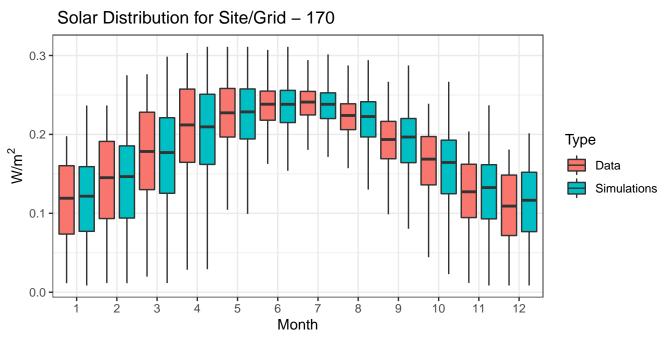


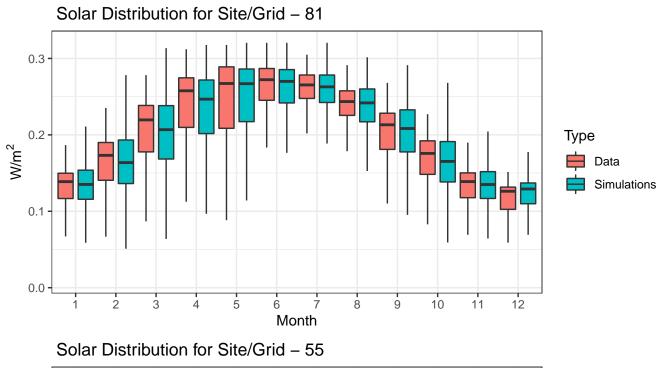
## **Daily Generation Potential across ERCOT – Solar**

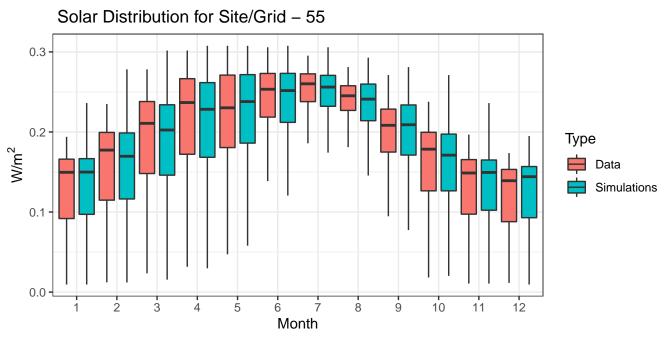




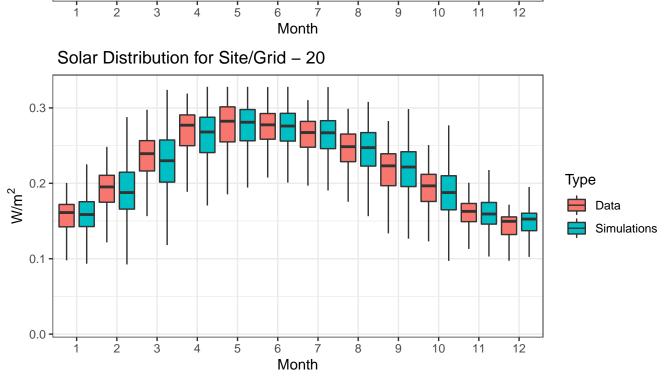


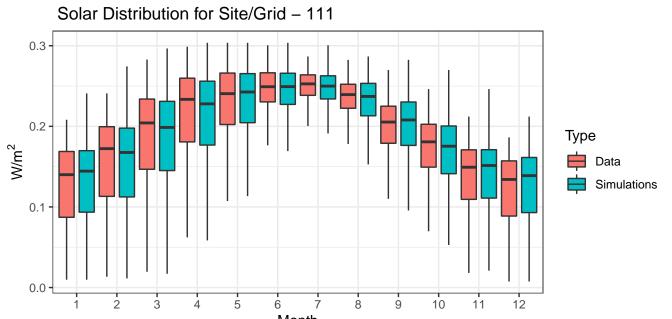


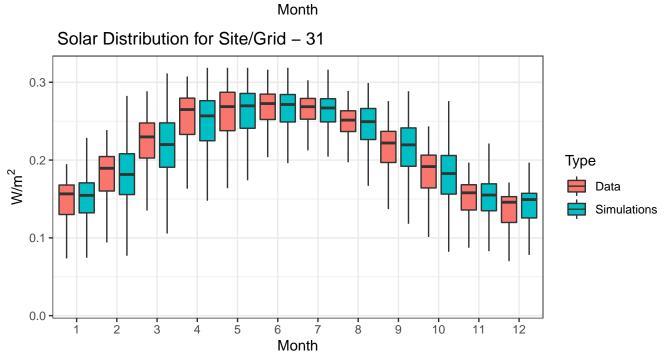


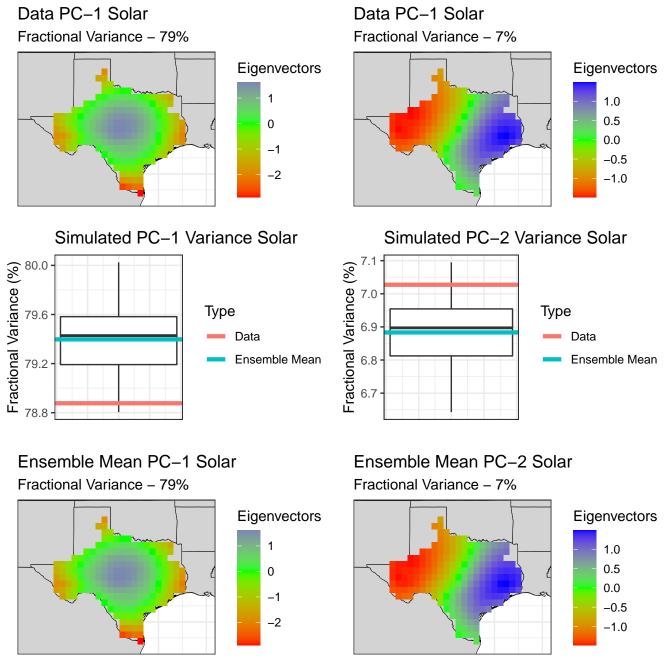


# Solar Distribution for Site/Grid – 202 O.3 Type Data Simulations

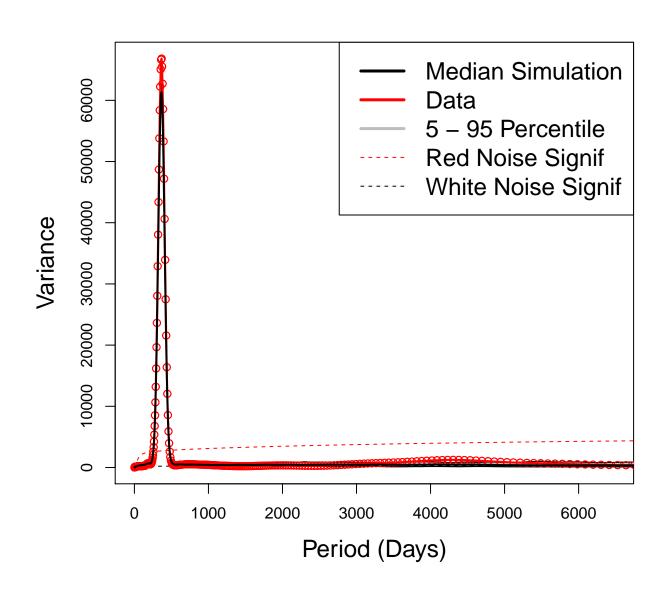




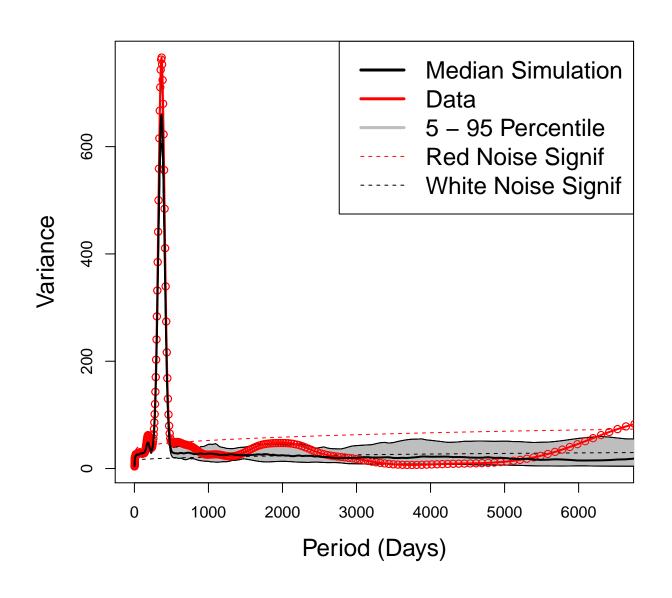




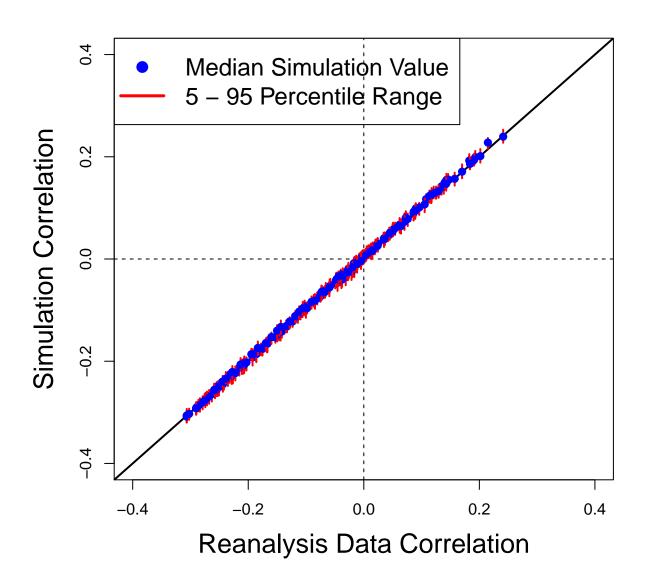
## Global Wavelet Spectrum PC – 1 Solar



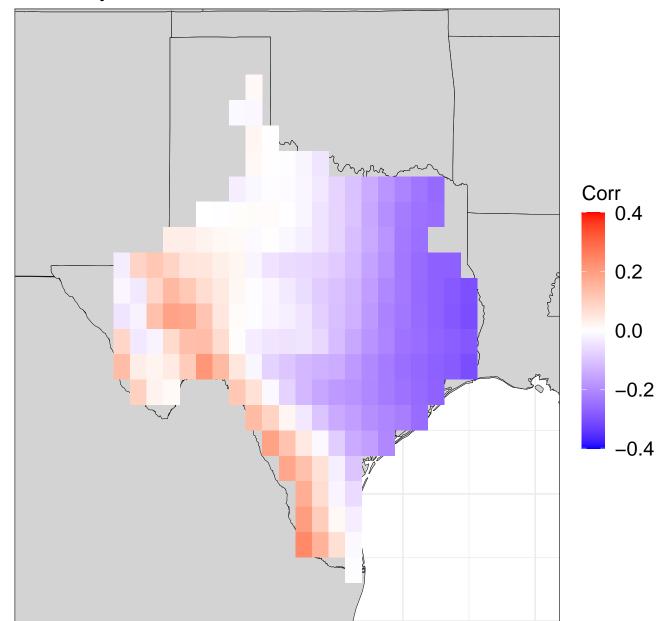
## Global Wavelet Spectrum PC – 2 Solar



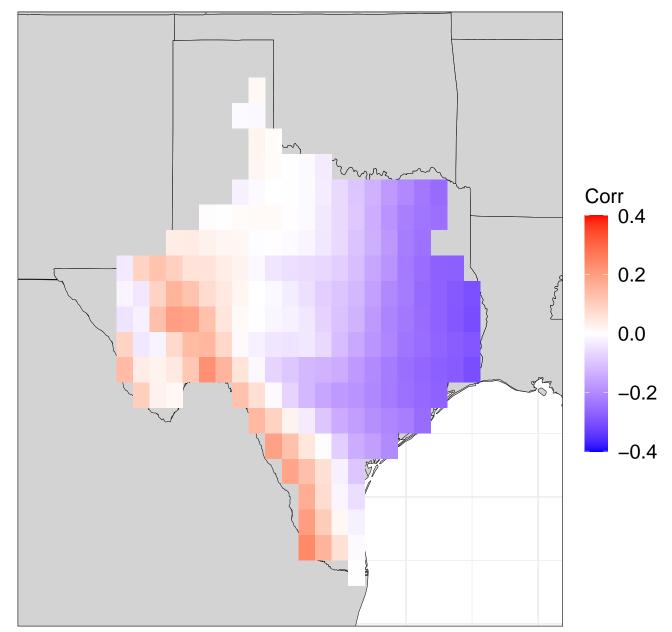
## **Simulation vs Data Correlation**



# Reanalysis Data Correlation



## Median Simulation Correlation



## Difference between Renalysis Data and Simulations

