

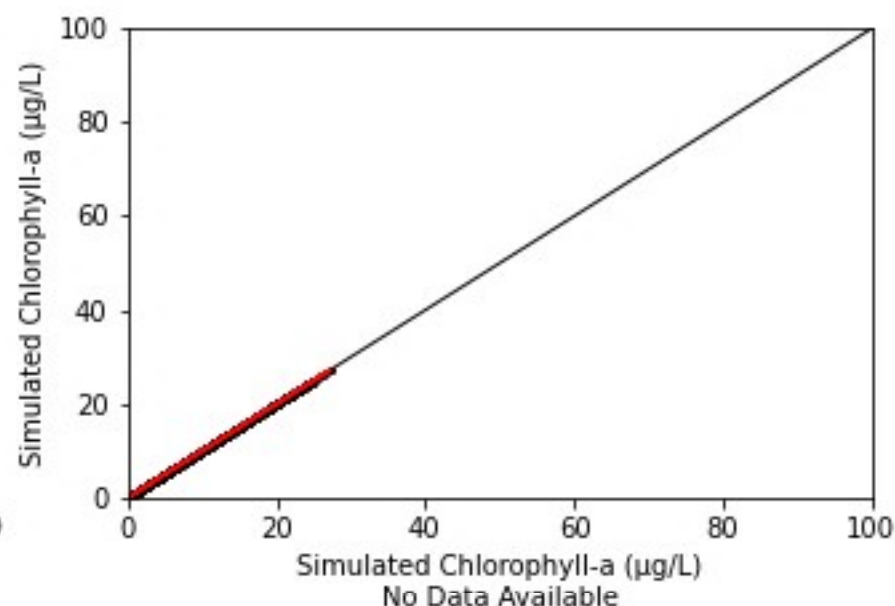
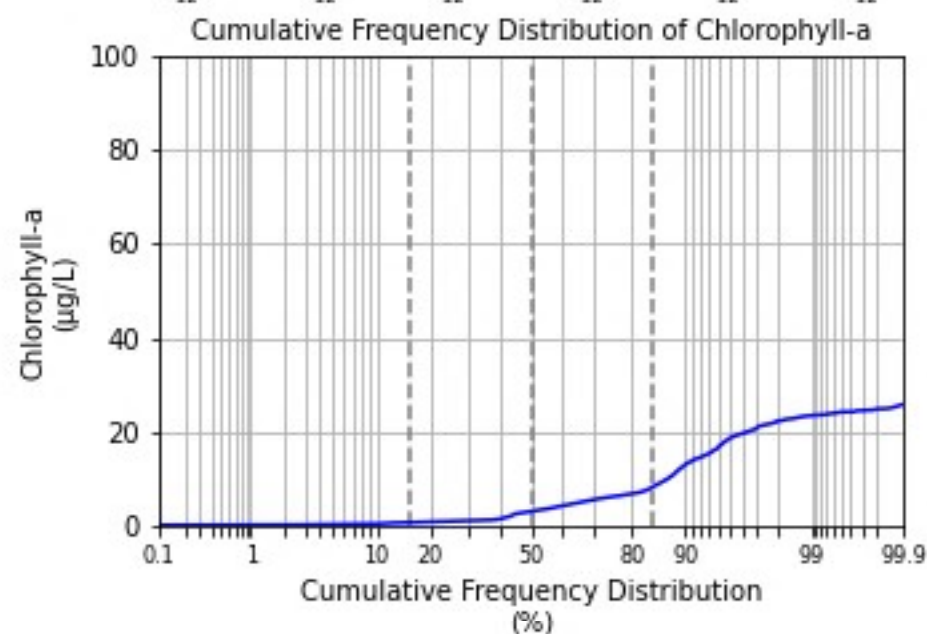
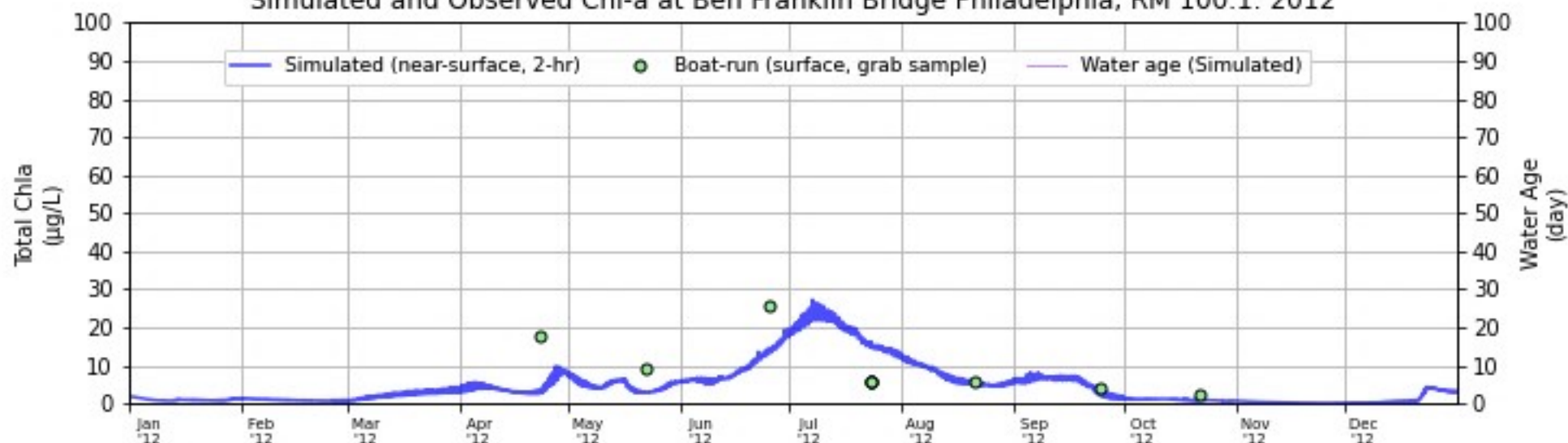
## Appendix F: Model to Data Comparisons

### Appendix F-9: Continuous data comparisons – 2012

#### Phytoplankton

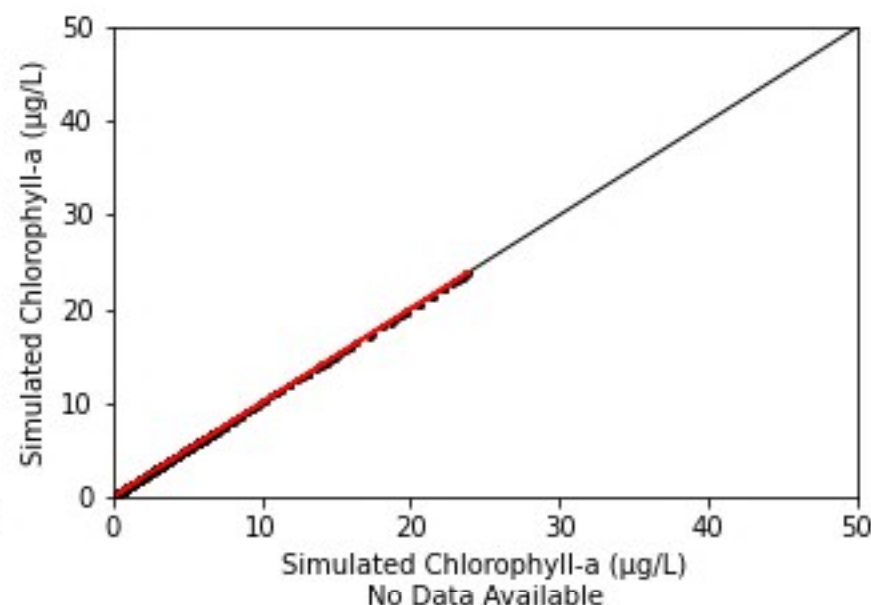
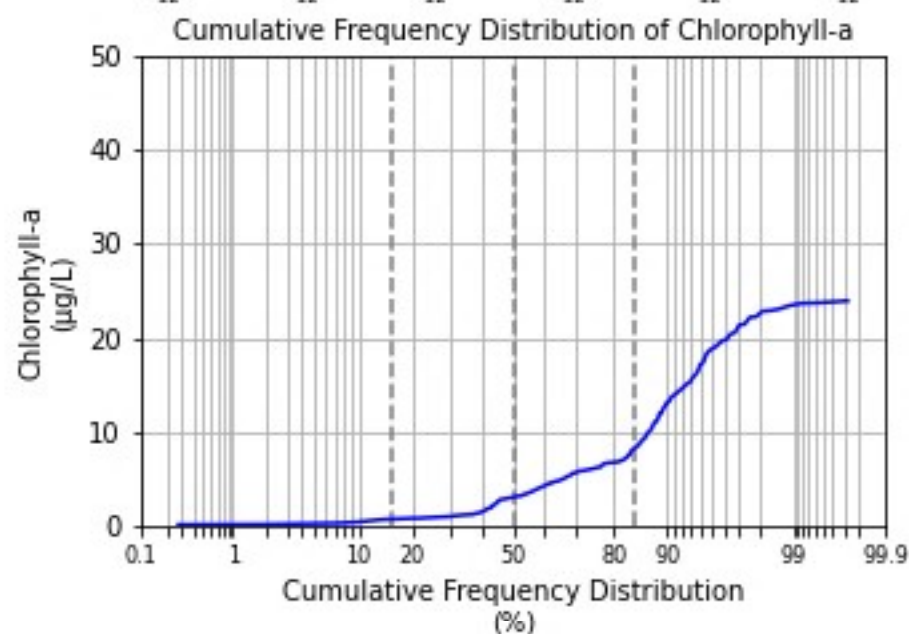
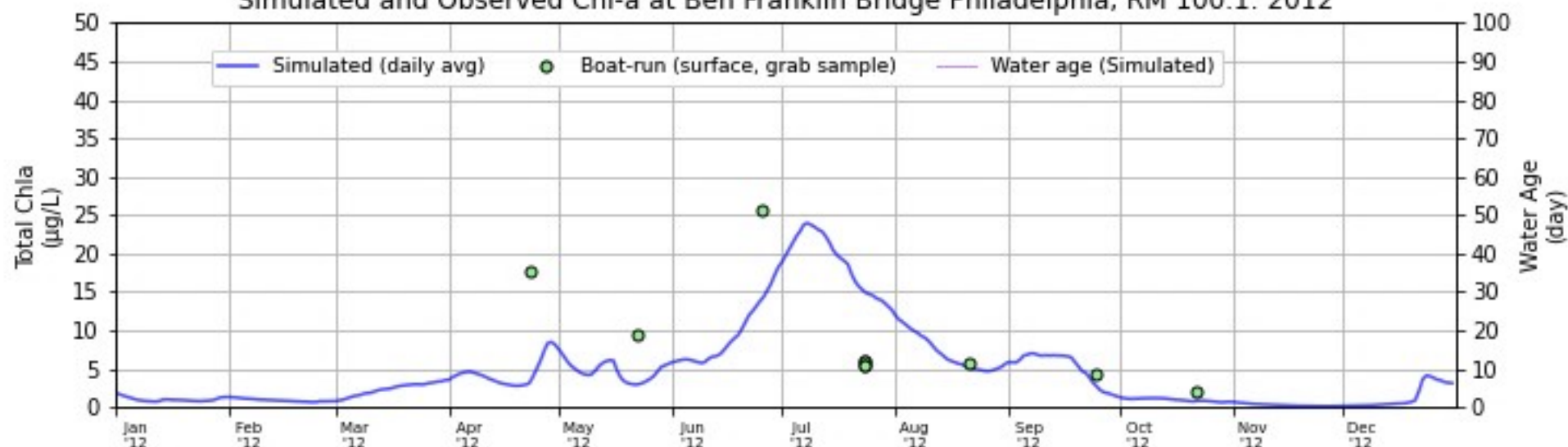
This appendix is in connection with Section 3.2.4.2 in the main report – Comparisons to the continuous data at discrete locations. It presents the predicted and measured (near-) surface phytoplankton concentrations at the USGS stations and PWD-Buoys for the corroboration period 2012. Both the model predictions and data represent instantaneous values paired at two-hour intervals, as well as daily averages. Note that the continuous data are not available for 2012 period. Only Boat Run data are displayed.

# Simulated and Observed Chl-a at Ben Franklin Bridge Philadelphia, RM 100.1: 2012



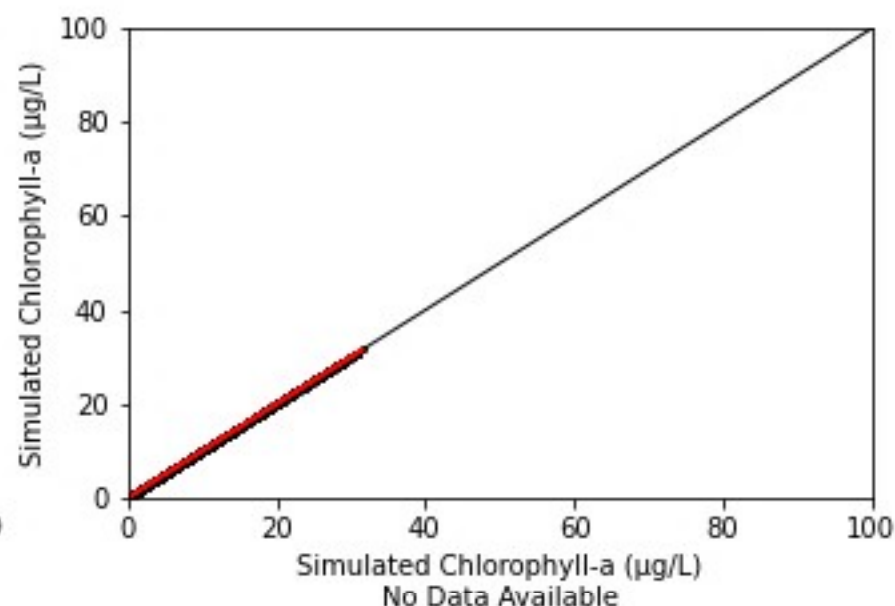
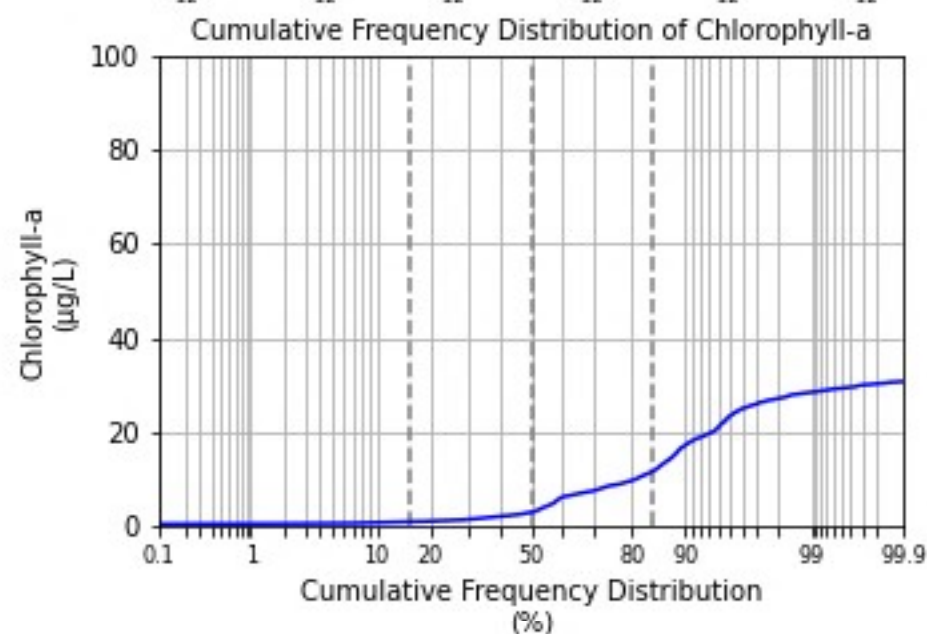
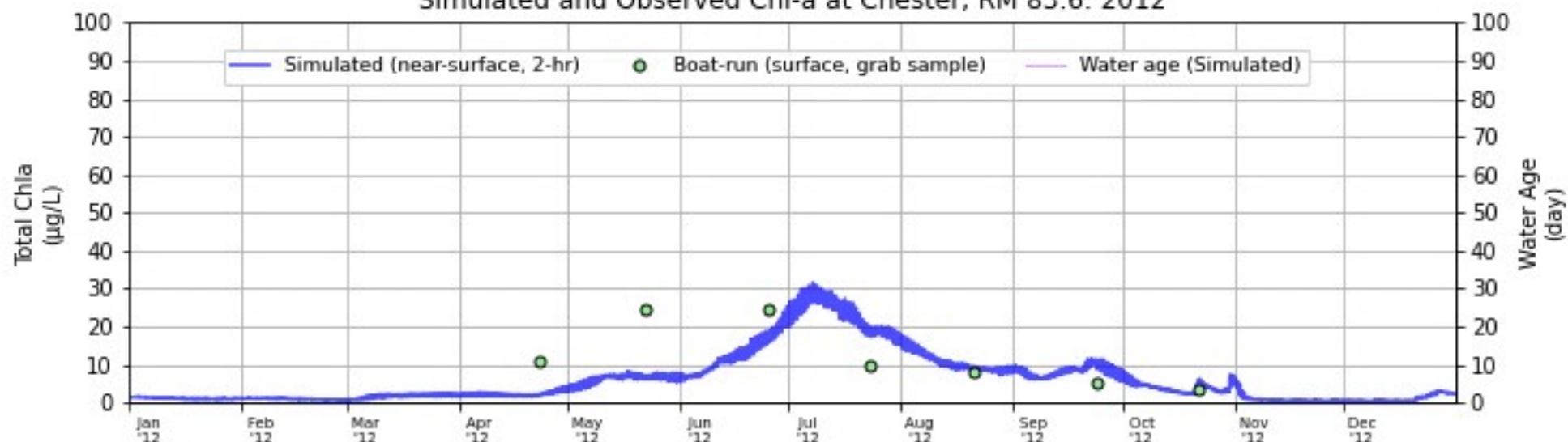
Boat run samples were collected at RM 100.2 close to USGS station.  
 USGS (01467200) data were not available.  
 Model results are based on the average values from vertical layer 11 to 11.  
 Run ID: 3D\_202208-01

# Simulated and Observed Chl-a at Ben Franklin Bridge Philadelphia, RM 100.1: 2012



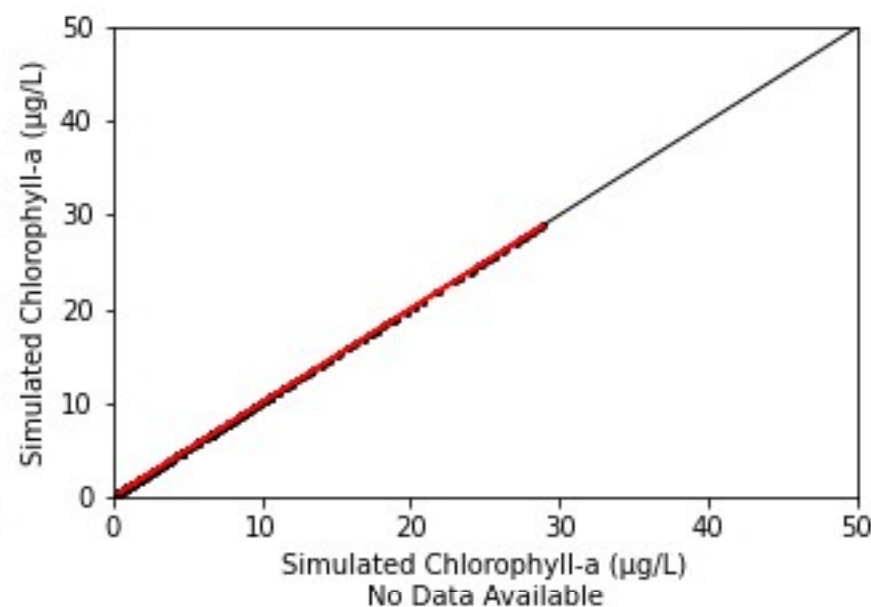
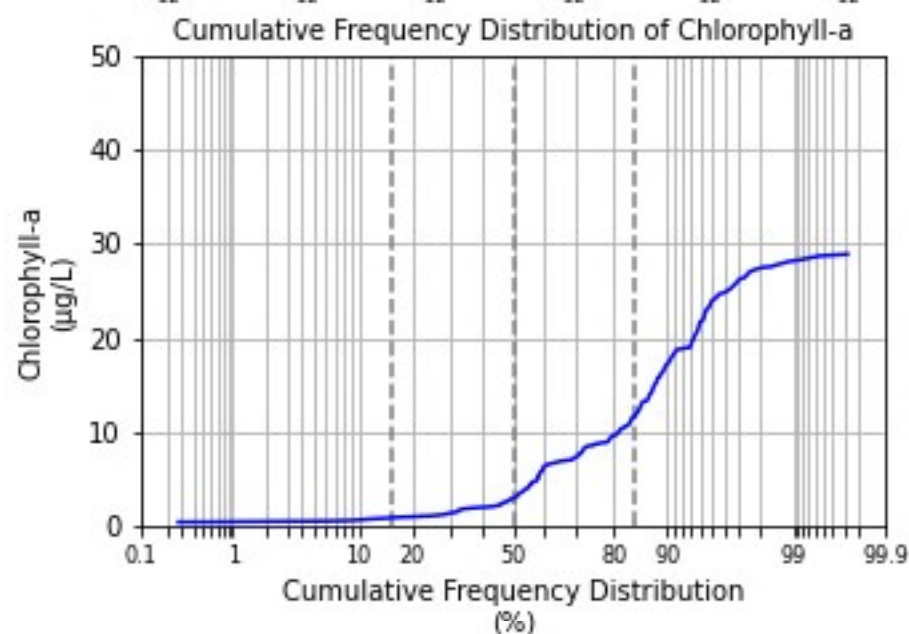
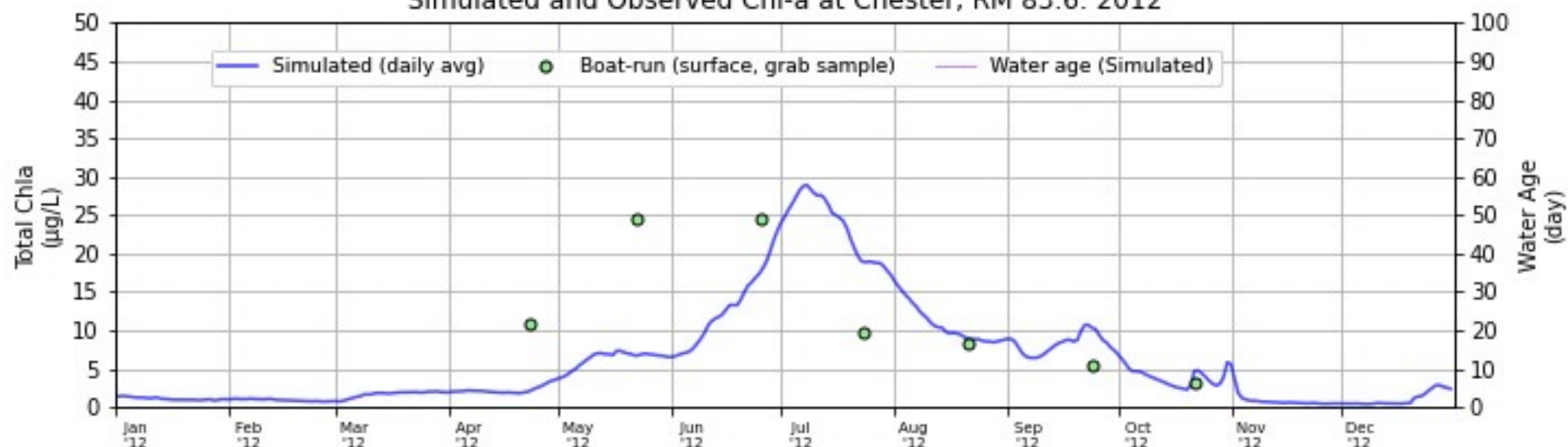
Boat run samples were collected at RM 100.2 close to USGS station.  
 USGS (01467200) data were not available.  
 Model results are based on the average values from vertical layer 11 to 11.  
 Run ID: 3D\_202208-01

# Simulated and Observed Chl-a at Chester, RM 83.6: 2012



Boat run samples were collected at RM 84.0 close to USGS station.  
 USGS (01477050) data were not available.  
 Model results are based on the average values from vertical layer 11 to 11.  
 Run ID: 3D\_202208-01

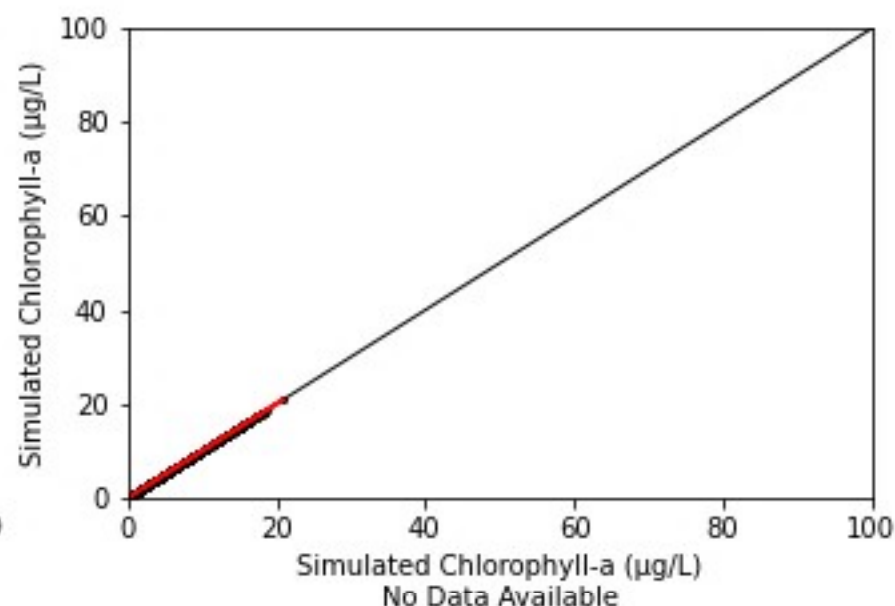
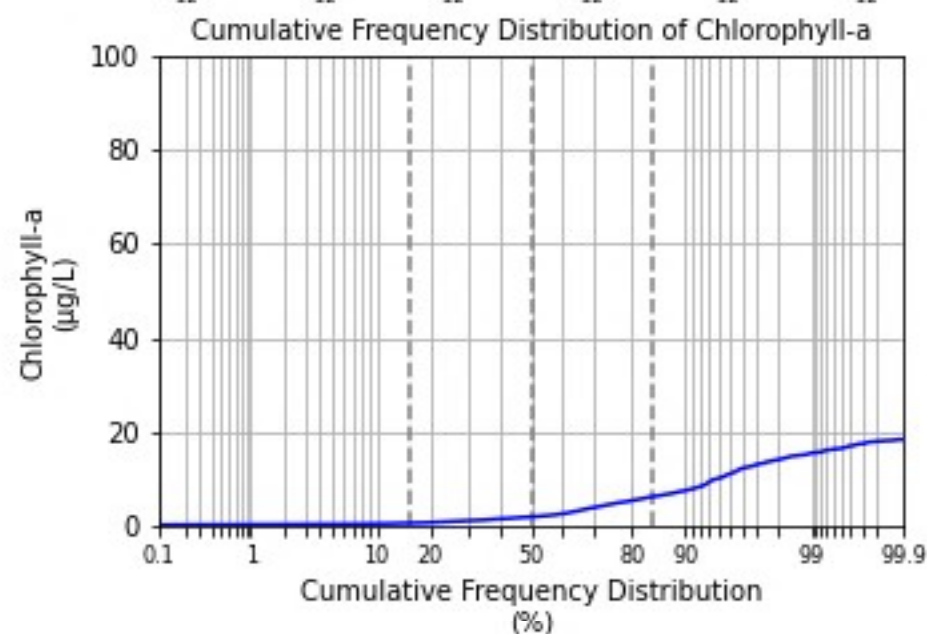
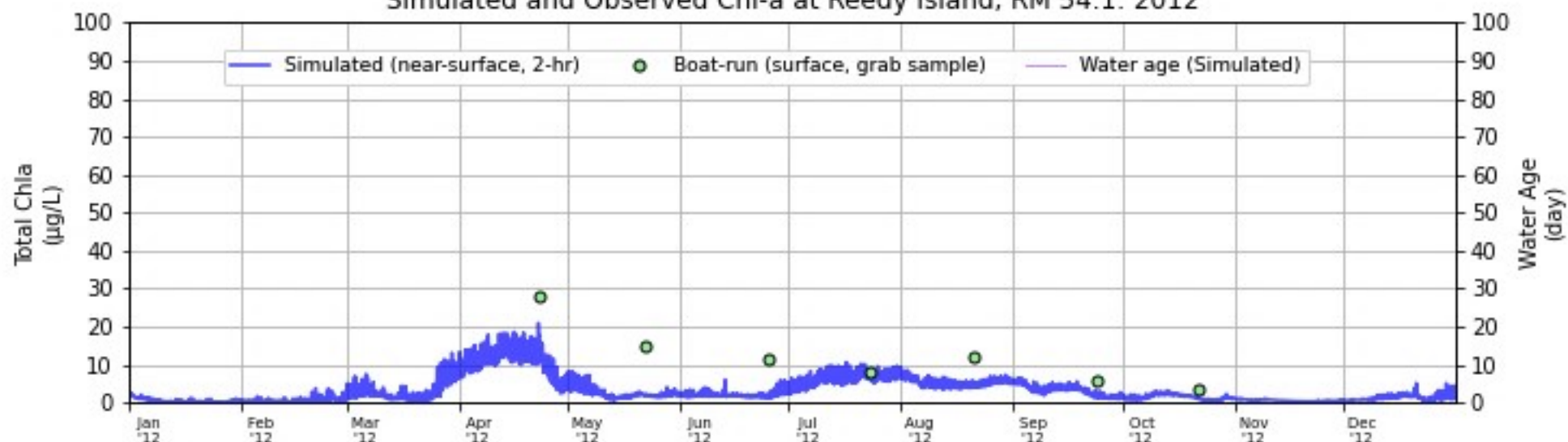
# Simulated and Observed Chl-a at Chester, RM 83.6: 2012



Boat run samples were collected at RM 84.0 close to USGS station.  
 USGS (01477050) data were not available.  
 Model results are based on the average values from vertical layer 11 to 11.  
 Run ID: 3D\_202208-01

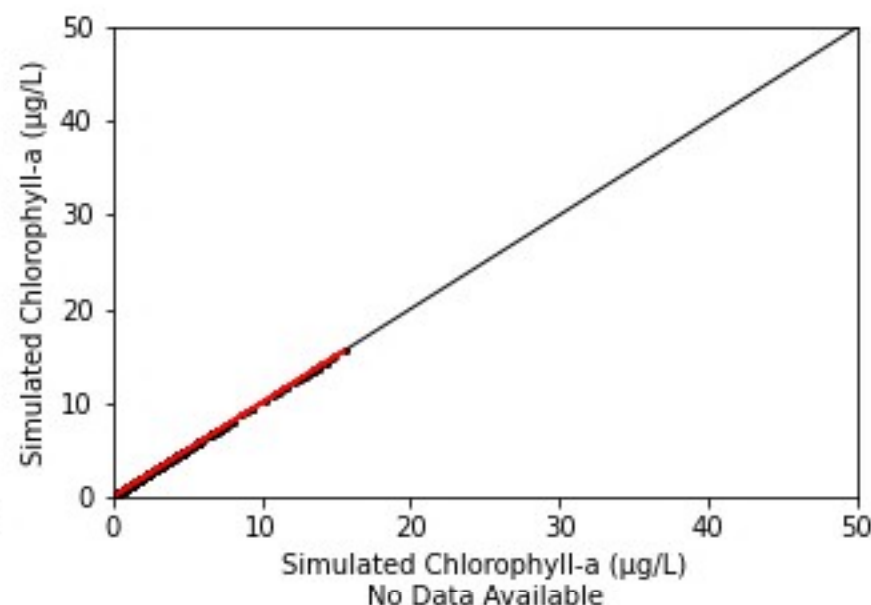
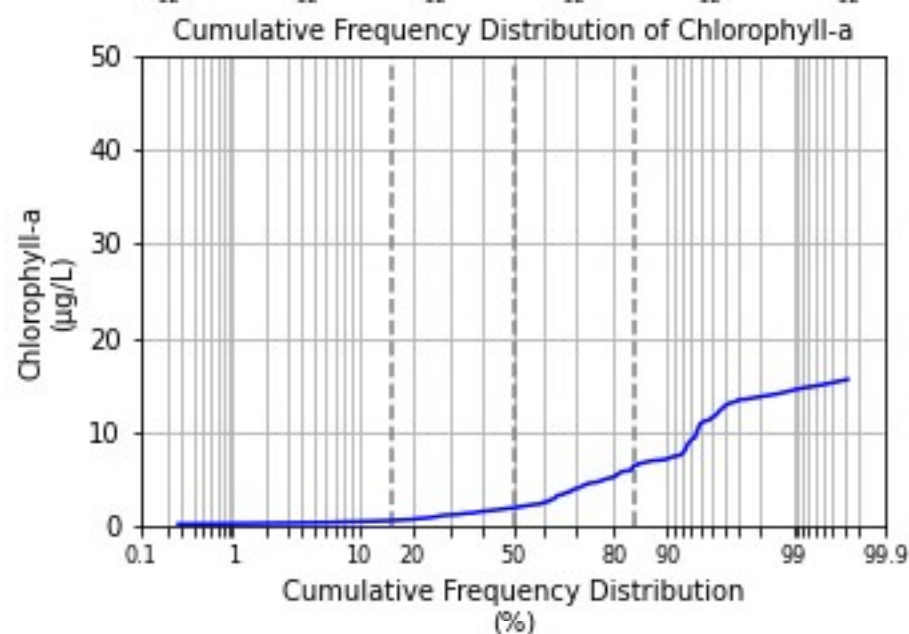
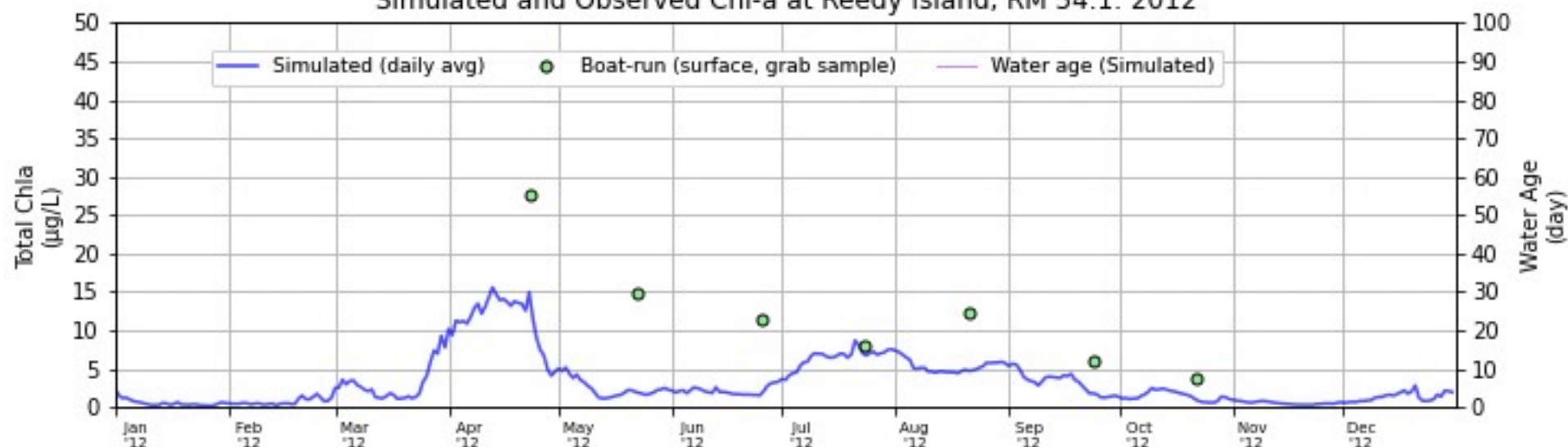


# Simulated and Observed Chl-a at Reedy Island, RM 54.1: 2012



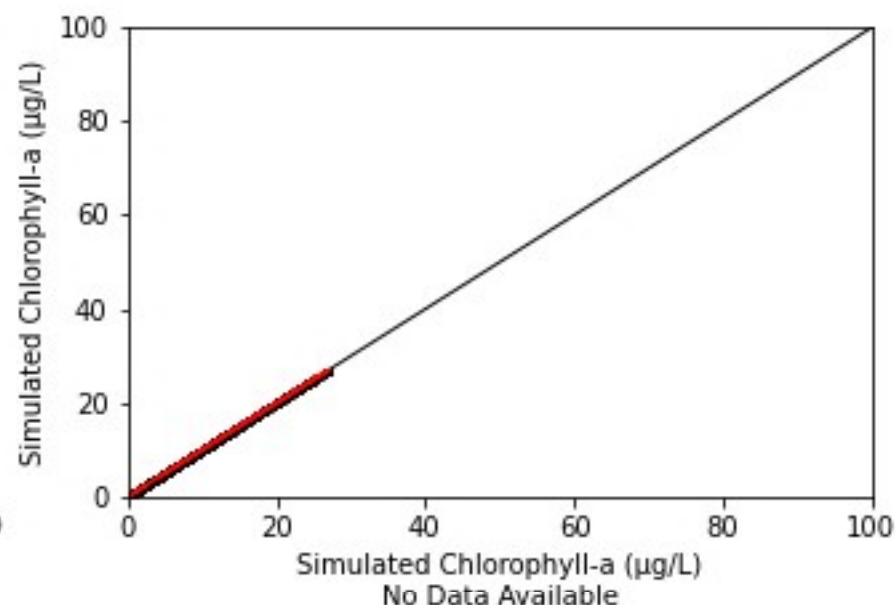
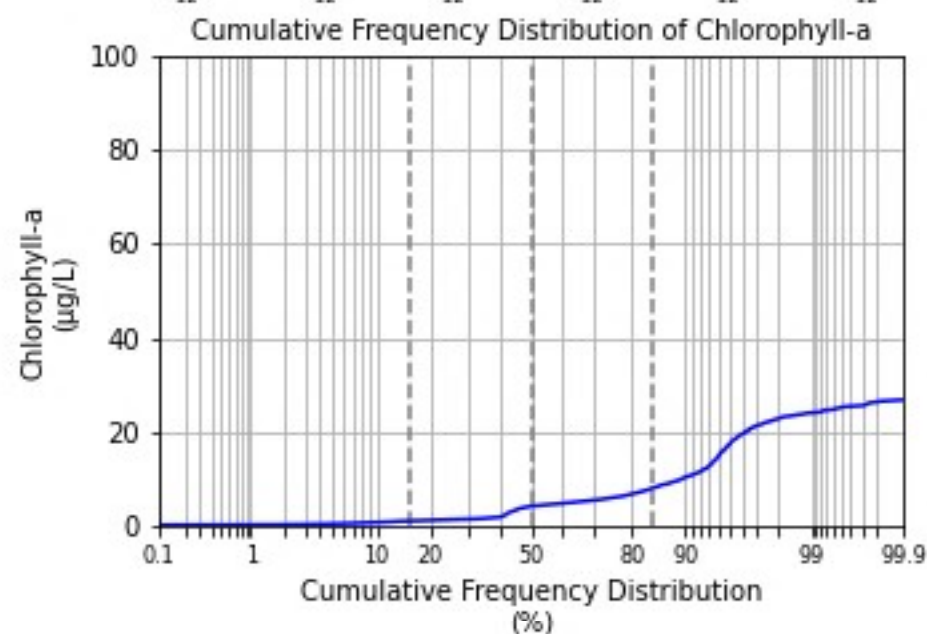
Boat run samples were collected at RM 54.9 close to USGS station.  
 USGS (01482800) data were not available.  
 Model results are based on the average values from vertical layer 11 to 11.  
 Run ID: 3D\_202208-01

# Simulated and Observed Chl-a at Reedy Island, RM 54.1: 2012



Boat run samples were collected at RM 54.9 close to USGS station.  
 USGS (01482800) data were not available.  
 Model results are based on the average values from vertical layer 11 to 11.  
 Run ID: 3D\_202208-01

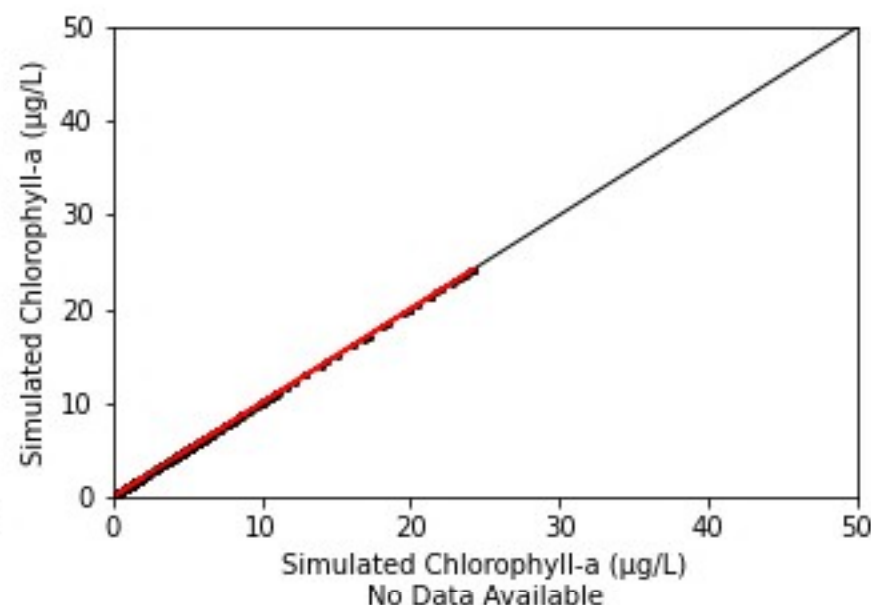
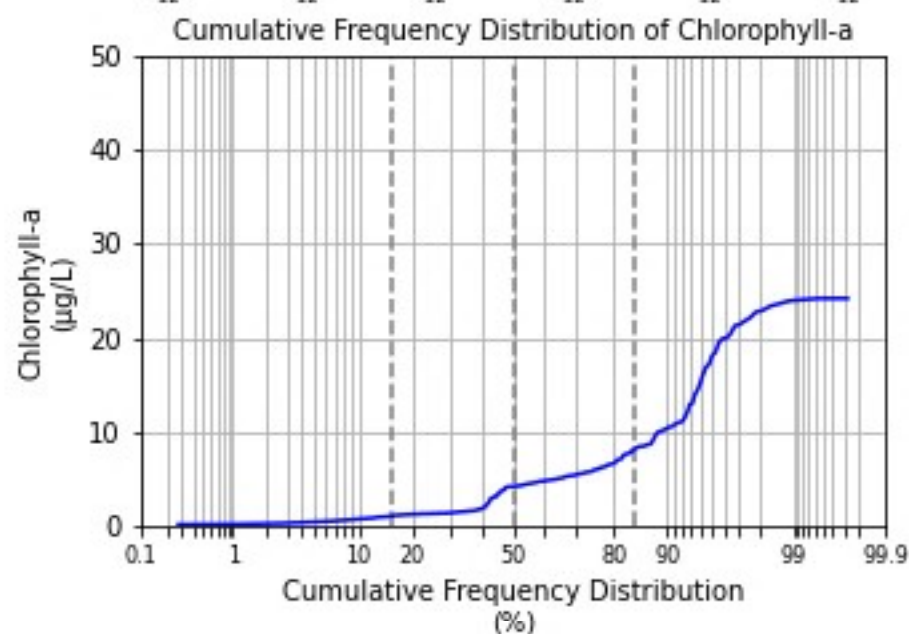
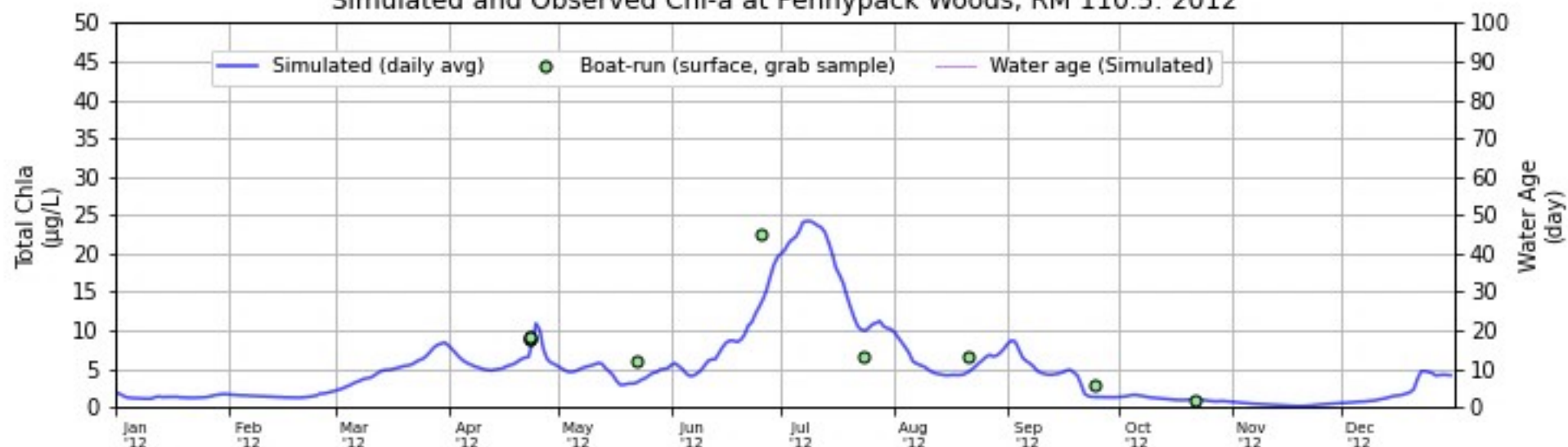
# Simulated and Observed Chl-a at Pennypack Woods, RM 110.5: 2012



Boat run samples were collected at RM 110.7 close to USGS station.  
 USGS (014670261) data were not available.  
 Model results are based on the average values from vertical layer 11 to 11.  
 Run ID: 3D\_202208-01

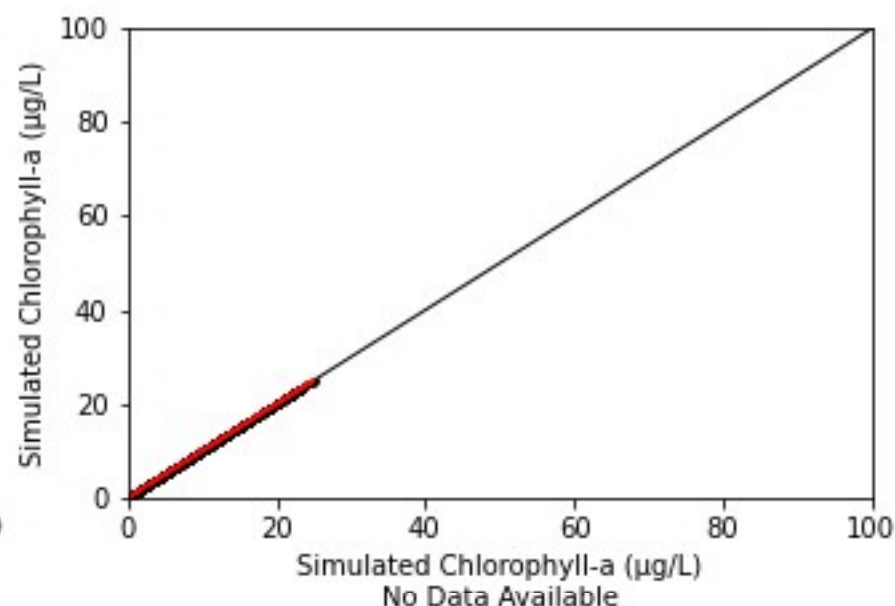
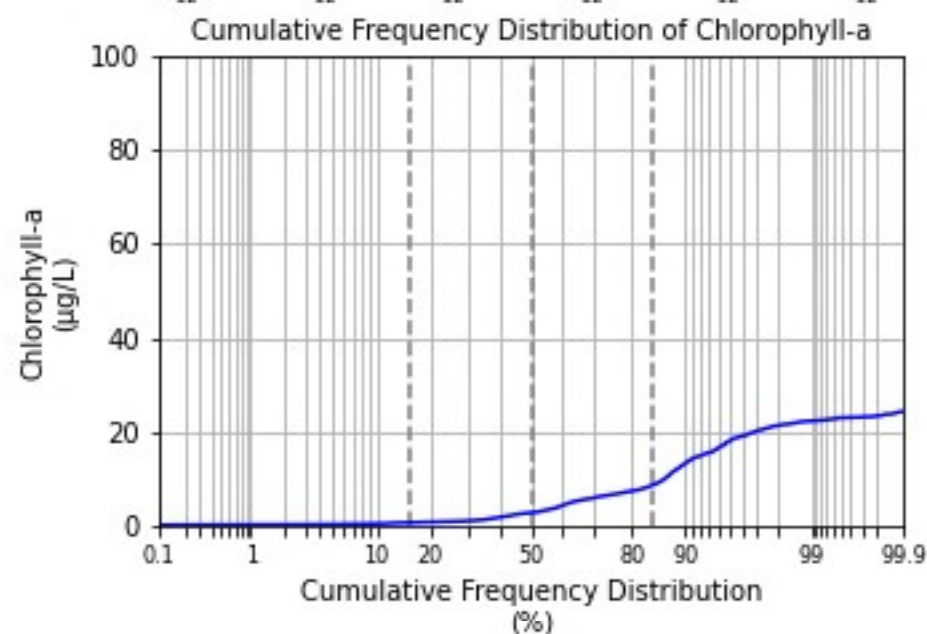
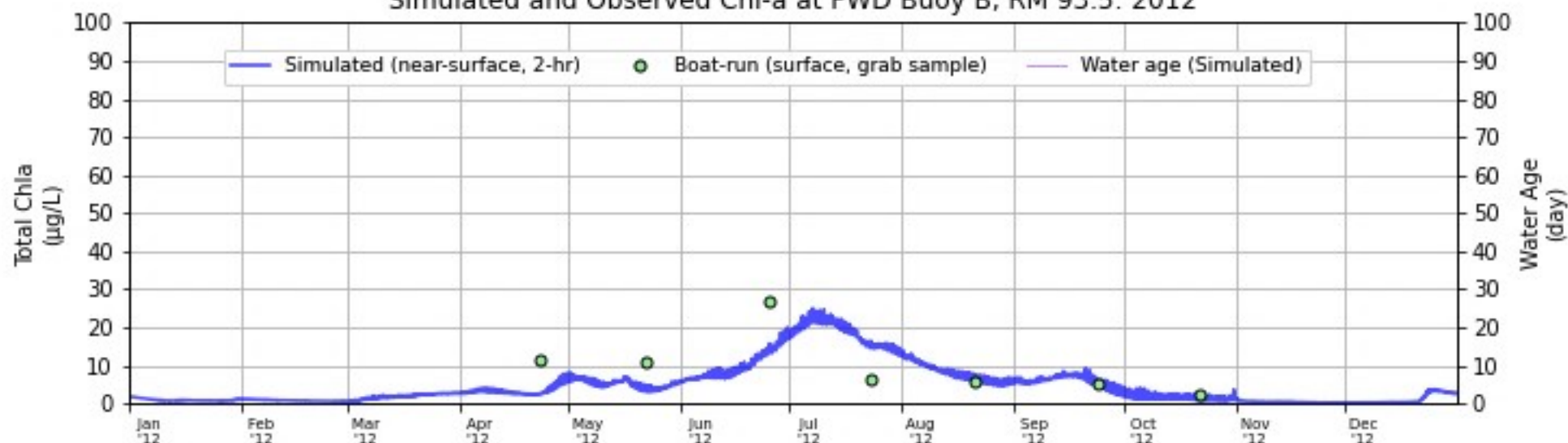


# Simulated and Observed Chl-a at Pennypack Woods, RM 110.5: 2012



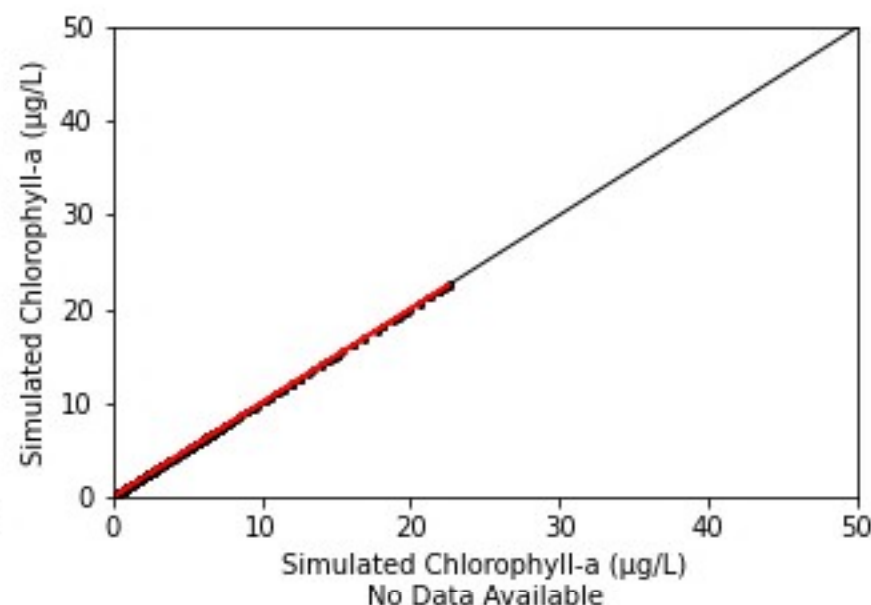
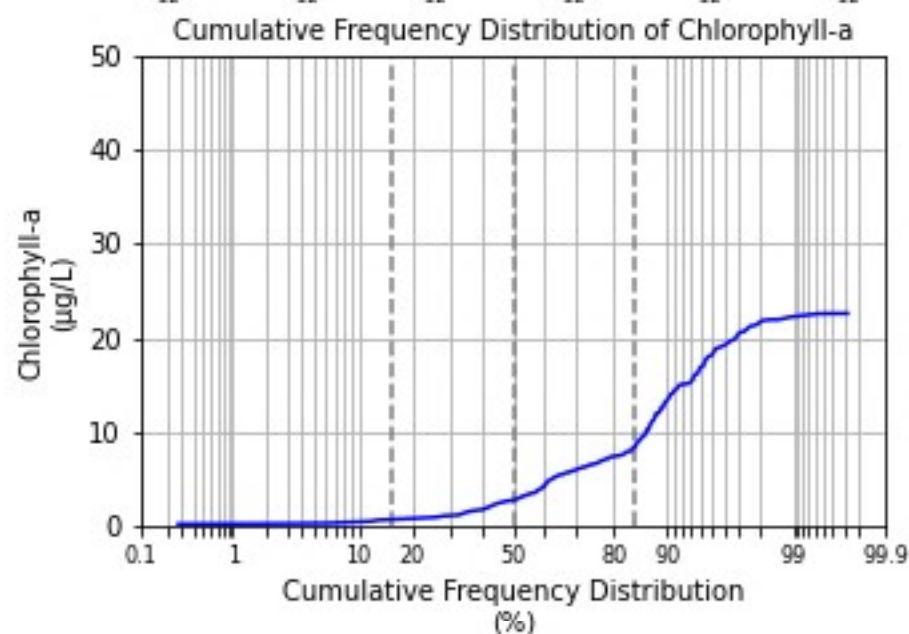
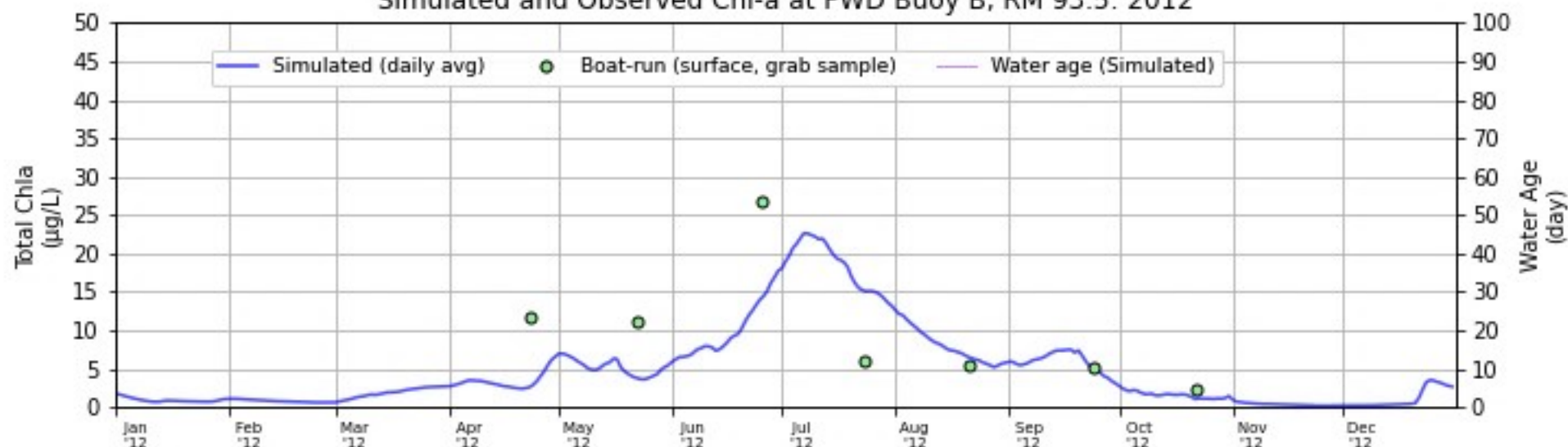
Boat run samples were collected at RM 110.7 close to USGS station.  
 USGS (014670261) data were not available.  
 Model results are based on the average values from vertical layer 11 to 11.  
 Run ID: 3D\_202208-01

# Simulated and Observed Chl-a at PWD Buoy B, RM 93.5: 2012



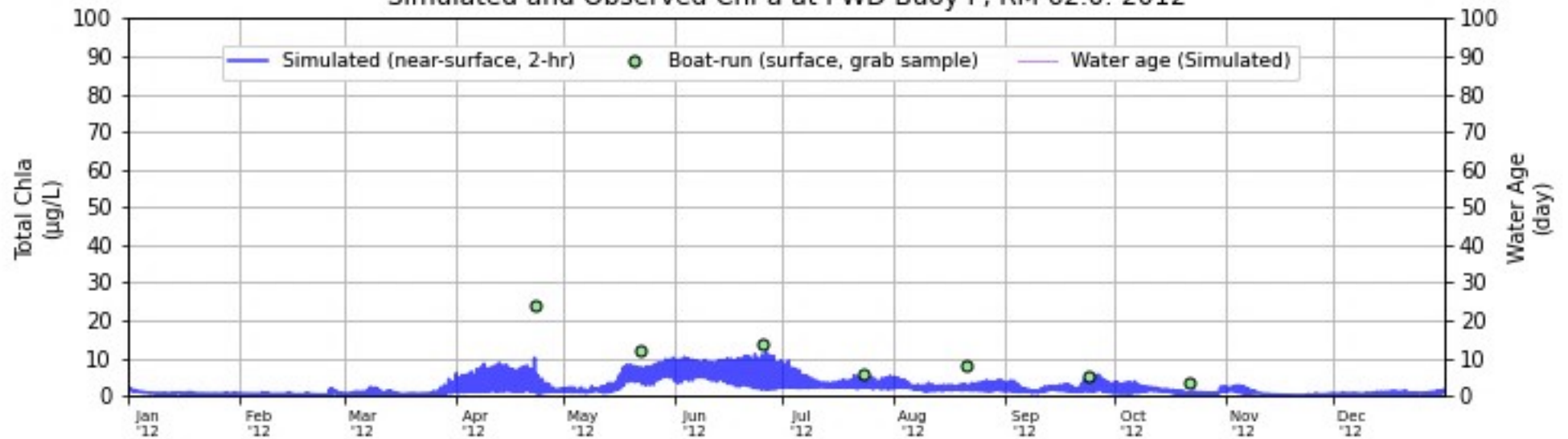
Boat run samples were collected at RM 93.2 close to PWD station.  
 USGS (PWD Buoy B) data were not available.  
 Model results are based on the average values from vertical layer 12 to 12.  
 Run ID: 3D\_202208-01

# Simulated and Observed Chl-a at PWD Buoy B, RM 93.5: 2012

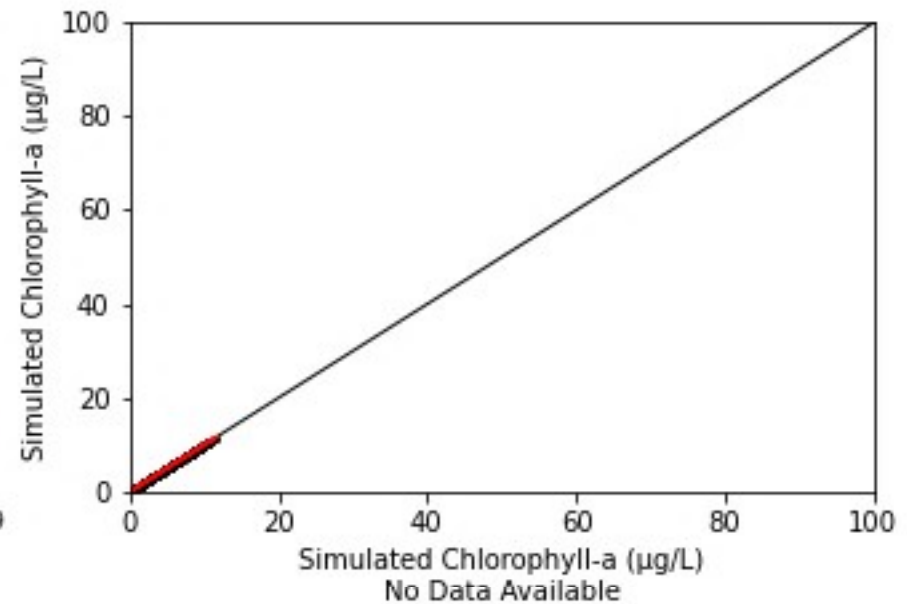
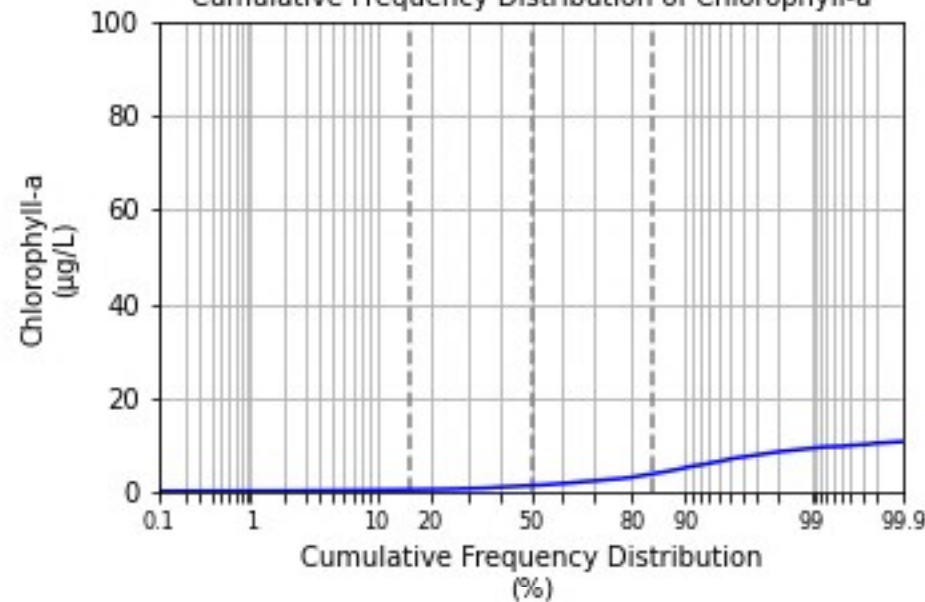


Boat run samples were collected at RM 93.2 close to PWD station.  
 USGS (PWD Buoy B) data were not available.  
 Model results are based on the average values from vertical layer 12 to 12.  
 Run ID: 3D\_202208-01

Simulated and Observed Chl-a at PWD Buoy P, RM 62.0: 2012

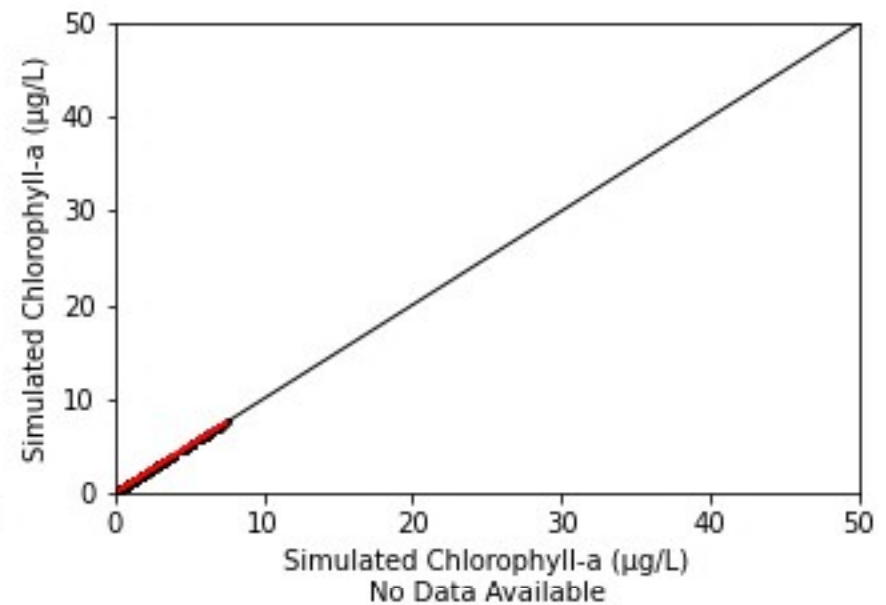
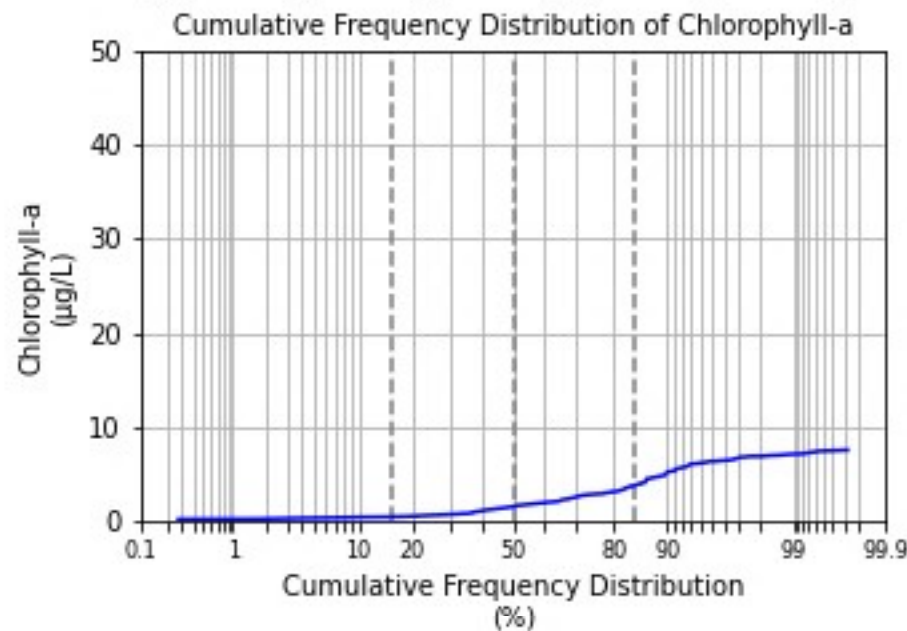
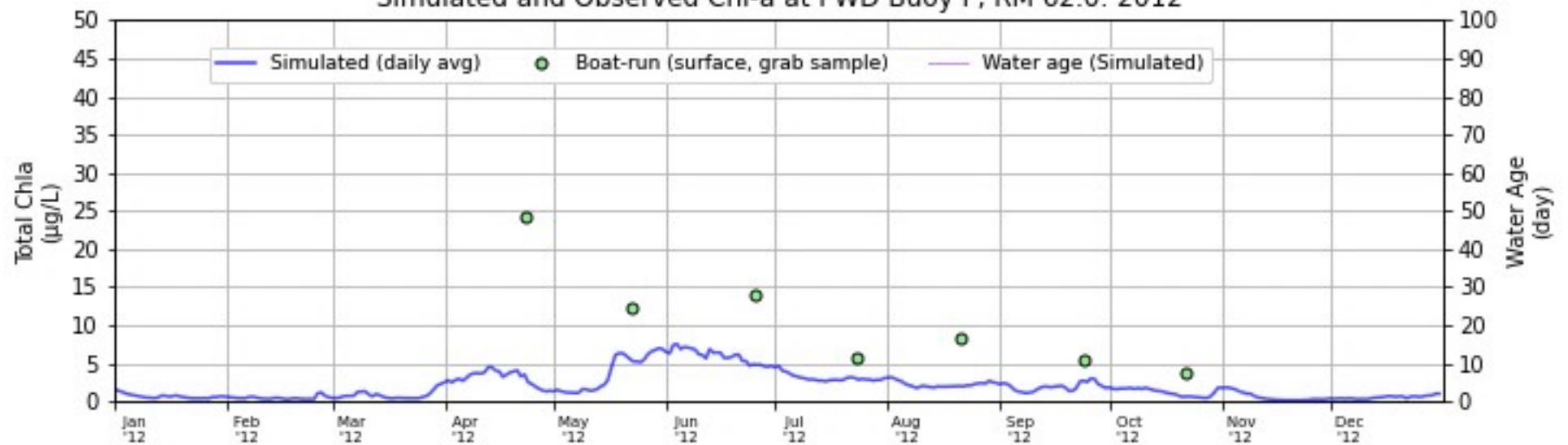


Cumulative Frequency Distribution of Chlorophyll-a



Boat run samples were collected at RM 60.6 close to PWD station.  
 USGS (PWD Buoy P) data were not available.  
 Model results are based on the average values from vertical layer 12 to 12.  
 Run ID: 3D\_202208-01

# Simulated and Observed Chl-a at PWD Buoy P, RM 62.0: 2012



Boat run samples were collected at RM 60.6 close to PWD station.  
 USGS (PWD Buoy P) data were not available.  
 Model results are based on the average values from vertical layer 12 to 12.  
 Run ID: 3D\_202208-01