

## Appendix A

### Water quality calibration time series

The model calibration of water quality time series was conducted from 2010-2013. Ten stations monitoring measurement in Chesapeake Bay program were used to calibrate. Time series comparisons between model predictions and observations are shown in subsequent plots. Red and black lines are daily averaged model results at surface and the bottom, respectively. Blue and green lines are daily maximum and minimum concentrations in the water column, respectively. Statistics are computed using both data at the surface and bottom layers. Downward-pointing triangle symbols are observations at the surface, and upward-pointing triangle symbols are observations at the bottom.

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