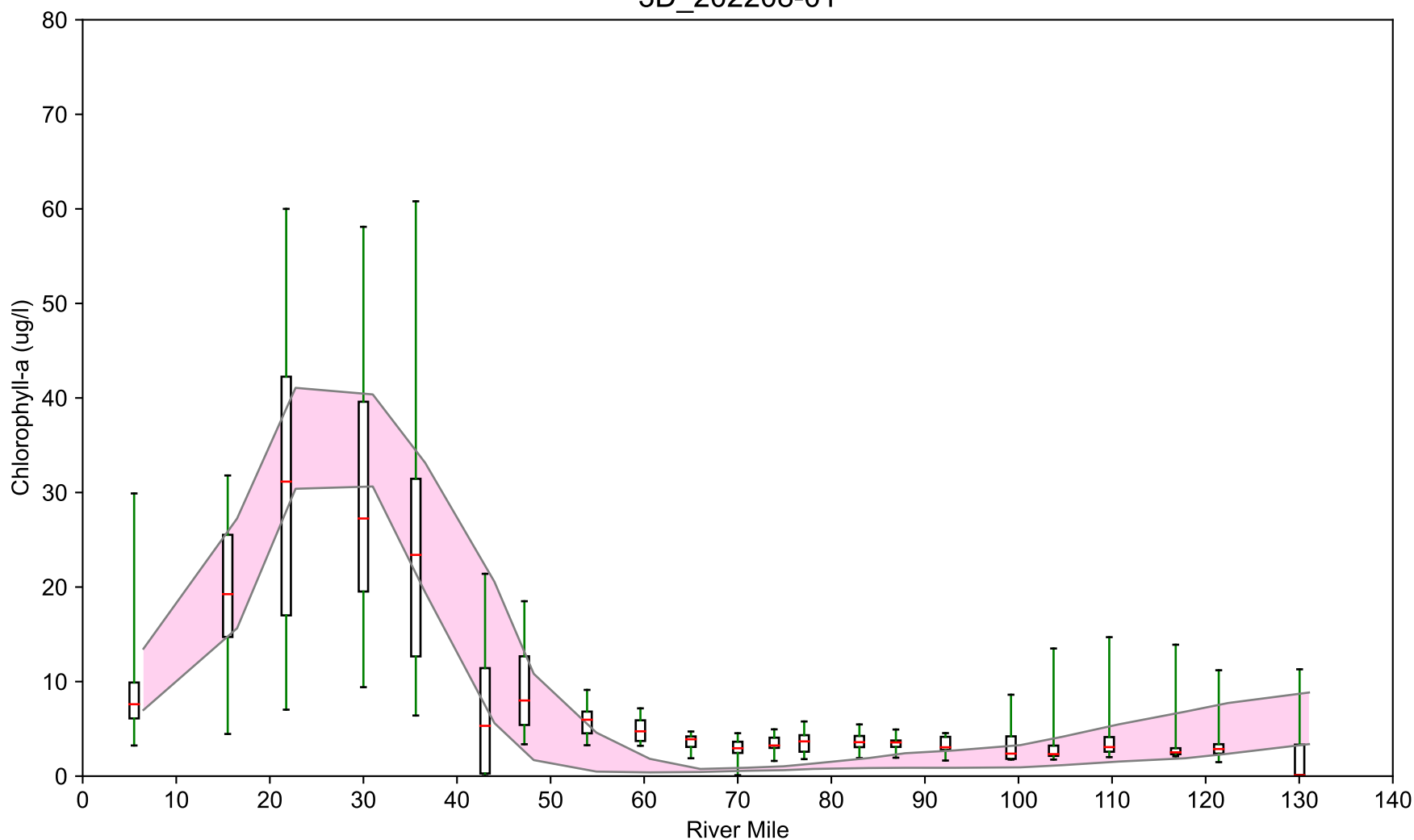


Appendix F: Model to Data Comparisons

Appendix F-7: Phytoplankton seasonal variation

This appendix is in connection with Section 3.2.4.1.3 in the main report – Phytoplankton. It contains the complete set of comparisons between predicted and observed phytoplankton concentrations for the calibration and corroboration periods for four seasons: (1) Season-1: February 1 to April 15 for the late winter and early spring, which is a growing season for the marine diatom (i.e., phytoplankton group 1); (2) Season-2: April 15 to August 31 for the late spring and summer, which is a growing season for both freshwater and marine diatoms (phytoplankton groups 2 and 3); (3) Season-3: September 1 to October 31 for the fall; and (4) Season-4: November 1 to January 31.

Predicted and Observed Chlorophyll-a: Late Winter and Early Spring: Feb 1 to April 15 3D_202208-01



The symbols next to the box represent data from 2012
The shaded area represent model results between the 25 and 75 percentile.
The un-colored box was based on 10-year boat-run data.

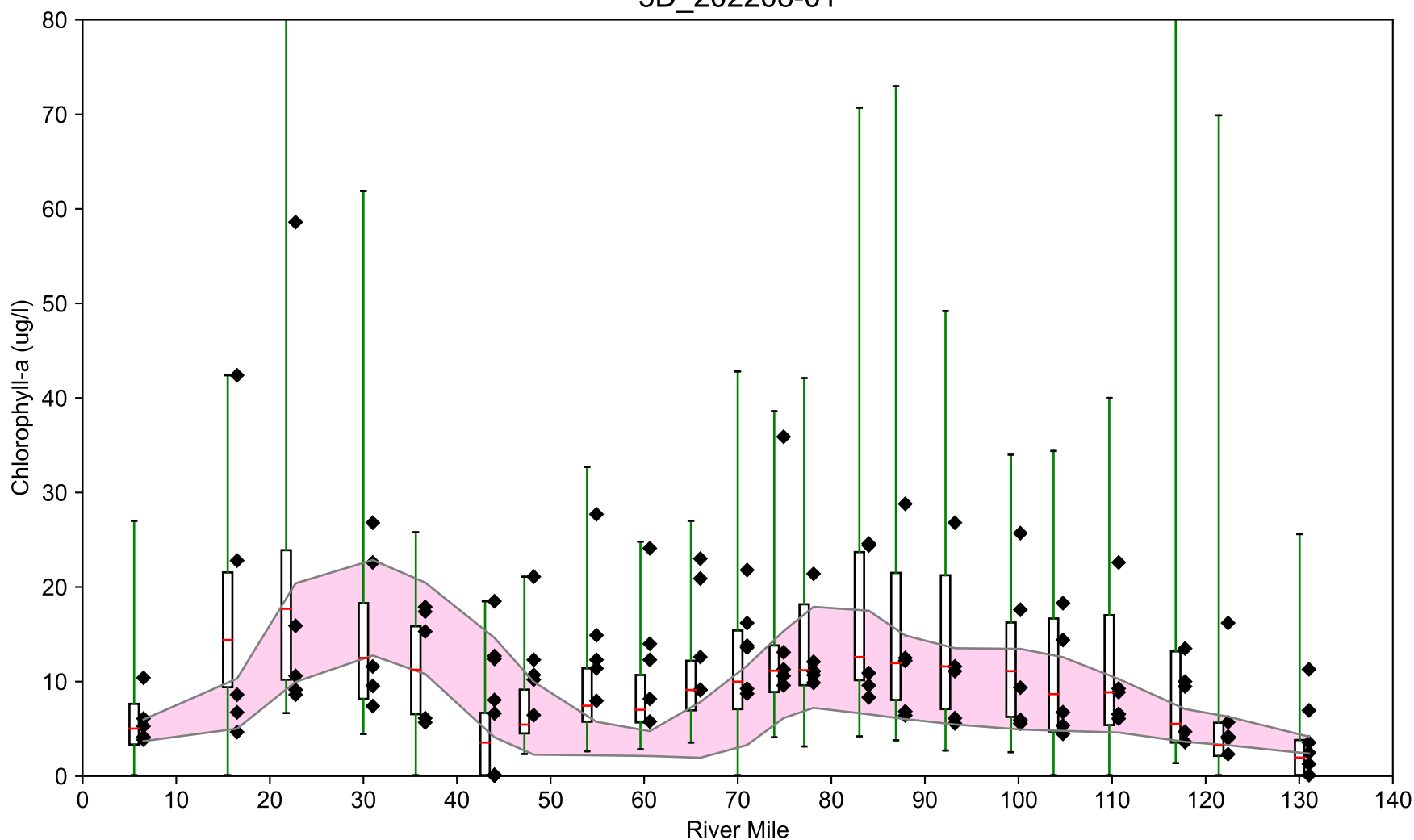
◆ Data (2012)



Predicted and Observed Chlorophyll-a for Late Winter and Early Spring: Feb 1 to April 15 Period
Model Results from 2012 were used.

Note: analysis was based on DRBC boat run data. Value below detection limit was set to half of the detection limit.
Middle orange line = median; Edge = 25, 75 percentile; Whiskers = range.

Predicted and Observed Chlorophyll-a: Late Spring and Summer: April 15 to August 31 3D_202208-01



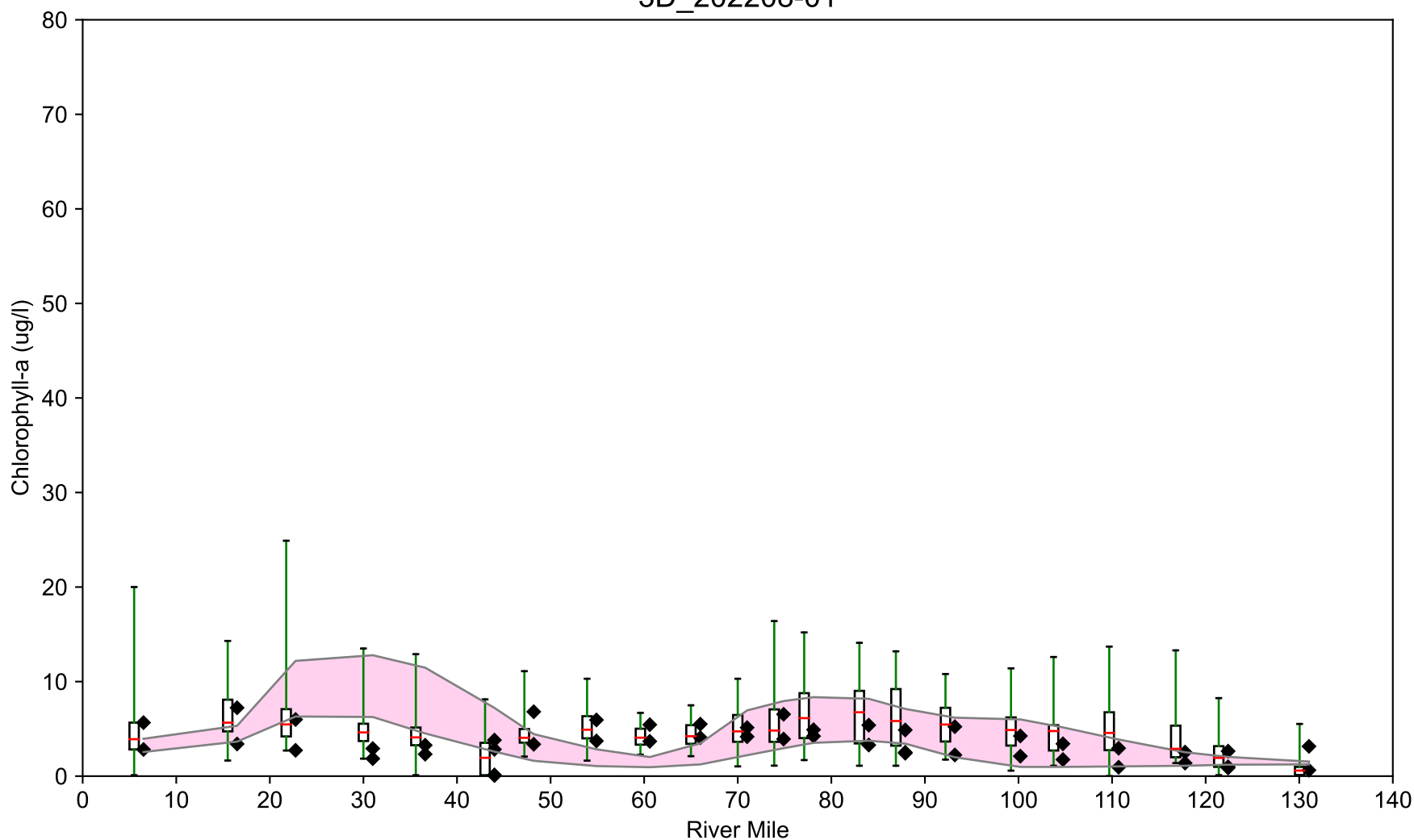
The symbols next to the box represent data from 2012
The shaded area represent model results between the 25 and 75 percentile.
The un-colored box was based on 10-year boat-run data.

◆ Data (2012)

Predicted and Observed Chlorophyll-a for Late Spring and Summer: April 15 to August 31 Period
Model Results from 2012 were used.

*Note: analysis was based on DRBC boat run data. Value below detection limit was set to half of the detection limit.
Middle orange line = median; Edge = 25, 75 percentile; Whiskers = range.*

Predicted and Observed Chlorophyll-a: Fall: Sept 1 to Oct 31 3D_202208-01



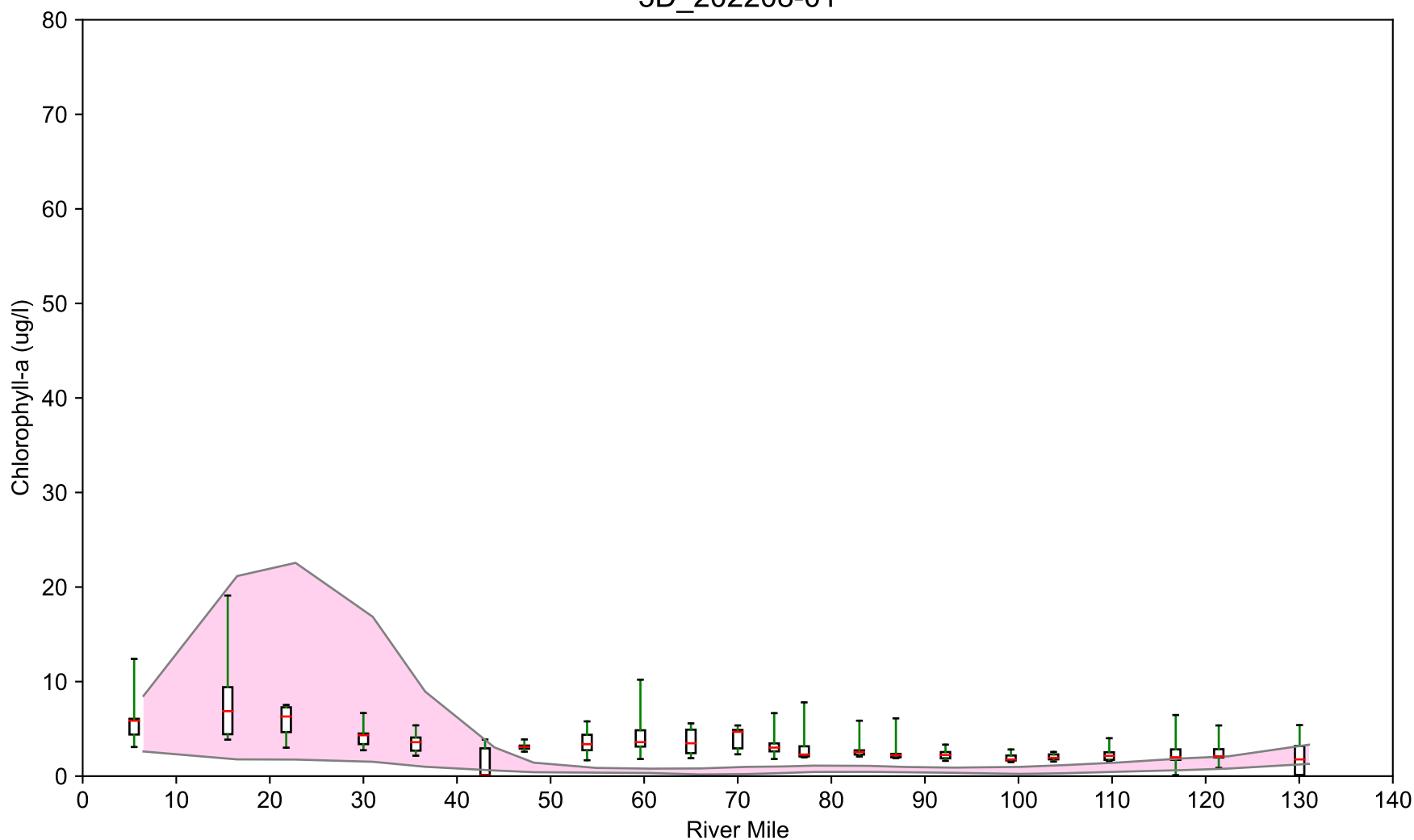
The symbols next to the box represent data from 2012
The shaded area represent model results between the 25 and 75 percentile.
The un-colored box was based on 10-year boat-run data.

◆ Data (2012)

Predicted and Observed Chlorophyll-a for Fall: Sept 1 to Oct 31 Period
Model Results from 2012 were used.

*Note: analysis was based on DRBC boat run data. Value below detection limit was set to half of the detection limit.
Middle orange line = median; Edge = 25, 75 percentile; Whiskers = range.*

Predicted and Observed Chlorophyll-a: Winter: Nov 1 to Jan 31 3D_202208-01



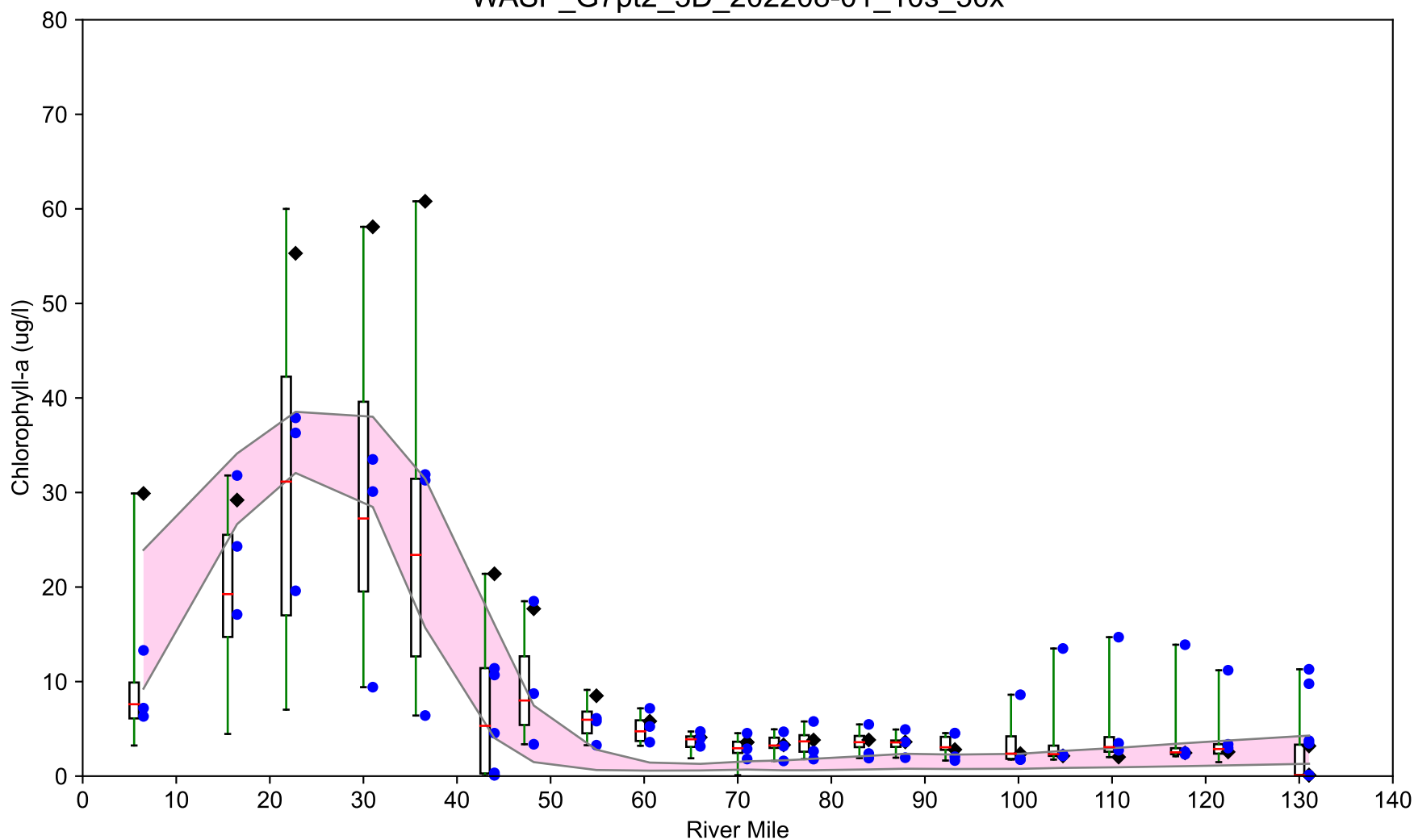
The symbols next to the box represent data from 2012
The shaded area represent model results between the 25 and 75 percentile.
The un-colored box was based on 10-year boat-run data.

◆ Data (2012)

Predicted and Observed Chlorophyll-a for Winter: Nov 1 to Jan 31 Period
Model Results from 2012 were used.

*Note: analysis was based on DRBC boat run data. Value below detection limit was set to half of the detection limit.
Middle orange line = median; Edge = 25, 75 percentile; Whiskers = range.*

Predicted and Observed Chlorophyll-a: Late Winter and Early Spring: Feb 1 to April 15 WASP_G7pt2_3D_202208-01_10s_30x



The symbols next to the box represent data from 2018 and 2019
The shaded area represent model results between the 25 and 75 percentile.
The un-colored box was based on 10-year boat-run data.

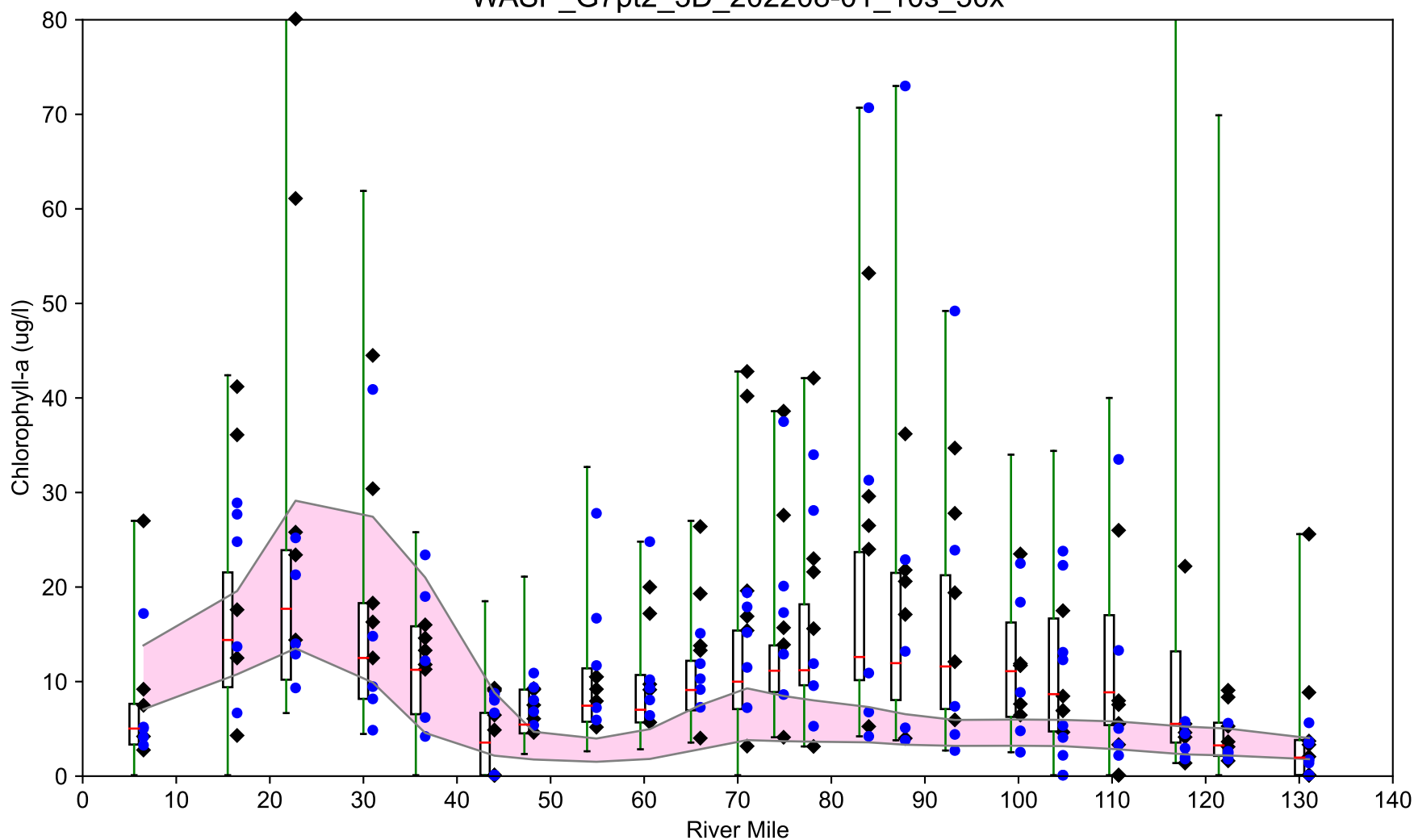
◆ Data (2018) ● Data (2019)



Predicted and Observed Chlorophyll-a for Late Winter and Early Spring: Feb 1 to April 15 Period
Model Results from 2018 and 2019 were used.

*Note: analysis was based on DRBC boat run data. Value below detection limit was set to half of the detection limit.
Middle orange line = median; Edge = 25, 75 percentile; Whiskers = range.*

Predicted and Observed Chlorophyll-a: Late Spring and Summer: April 15 to August 31 WASP_G7pt2_3D_202208-01_10s_30x



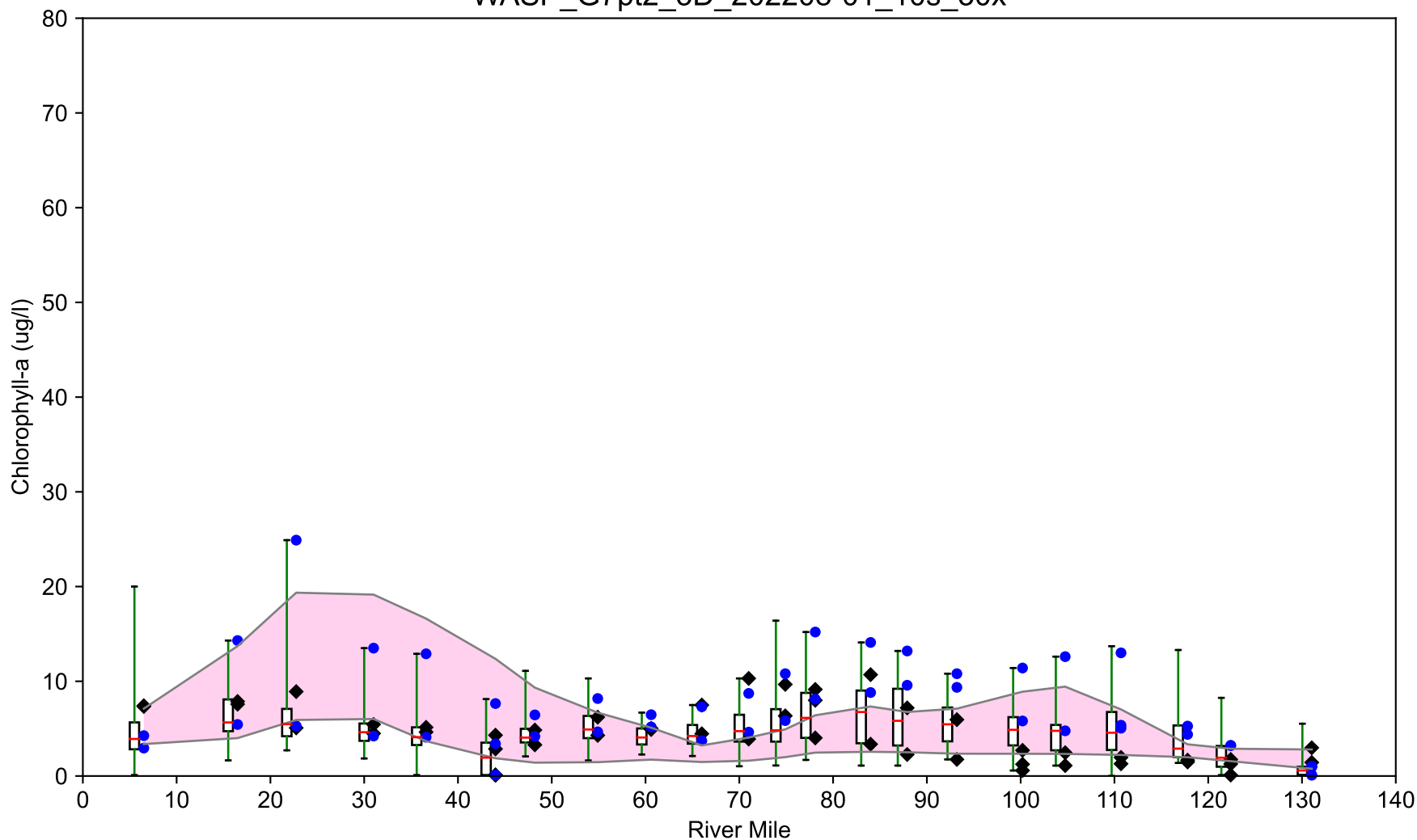
The symbols next to the box represent data from 2018 and 2019
The shaded area represent model results between the 25 and 75 percentile.
The un-colored box was based on 10-year boat-run data.

◆ Data (2018) ● Data (2019)

Predicted and Observed Chlorophyll-a for Late Spring and Summer: April 15 to August 31 Period
Model Results from 2018 and 2019 were used.

*Note: analysis was based on DRBC boat run data. Value below detection limit was set to half of the detection limit.
Middle orange line = median; Edge = 25, 75 percentile; Whiskers = range.*

Predicted and Observed Chlorophyll-a: Fall: Sept 1 to Oct 31 WASP_G7pt2_3D_202208-01_10s_30x



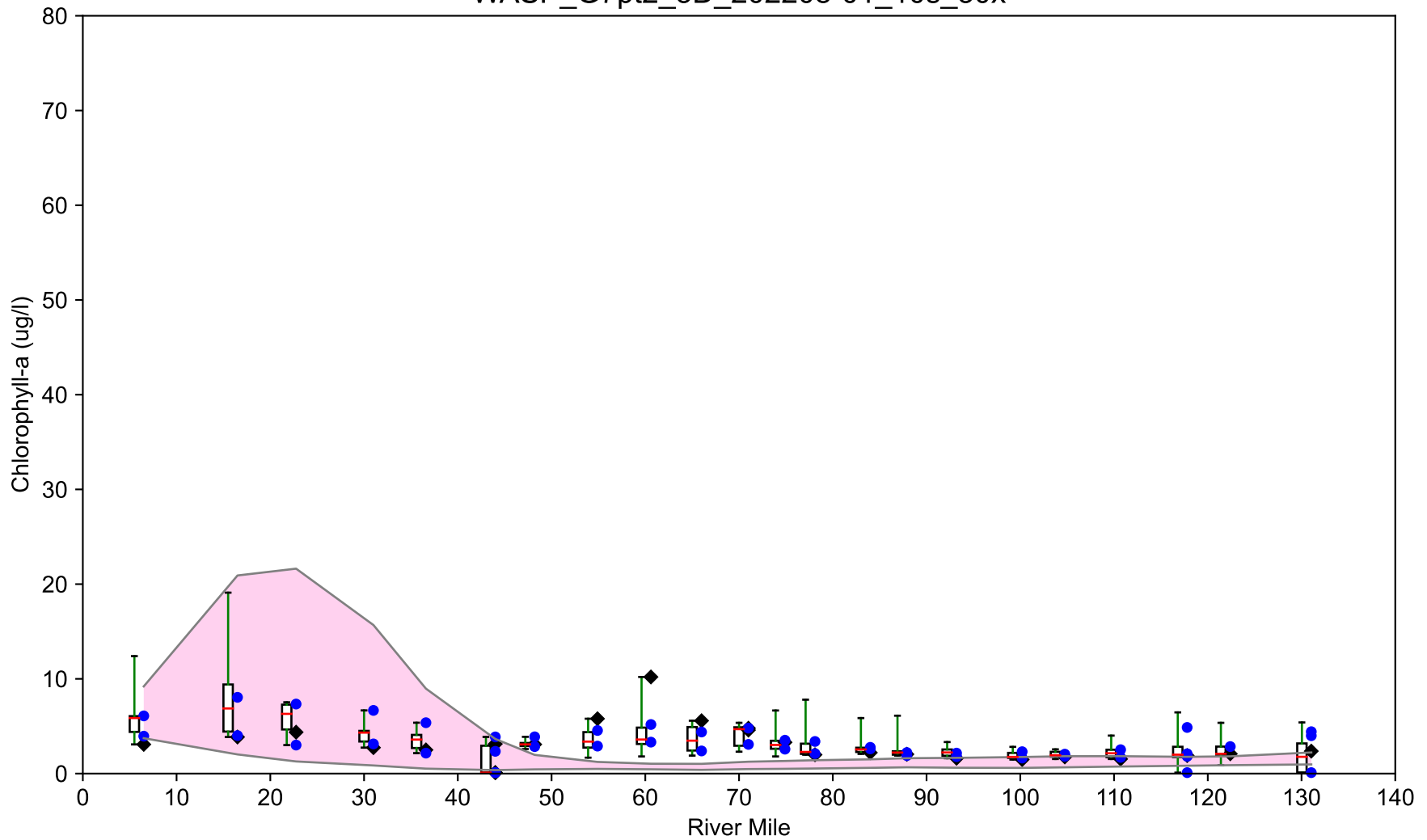
The symbols next to the box represent data from 2018 and 2019
The shaded area represent model results between the 25 and 75 percentile.
The un-colored box was based on 10-year boat-run data.

◆ Data (2018) ● Data (2019)

Predicted and Observed Chlorophyll-a for Fall: Sept 1 to Oct 31 Period
Model Results from 2018 and 2019 were used.

*Note: analysis was based on DRBC boat run data. Value below detection limit was set to half of the detection limit.
Middle orange line = median; Edge = 25, 75 percentile; Whiskers = range.*

Predicted and Observed Chlorophyll-a: Winter: Nov 1 to Jan 31 WASP_G7pt2_3D_202208-01_10s_30x



The symbols next to the box represent data from 2018 and 2019
The shaded area represent model results between the 25 and 75 percentile.
The un-colored box was based on 10-year boat-run data.

◆ Data (2018) ● Data (2019)

Predicted and Observed Chlorophyll-a for Winter: Nov 1 to Jan 31 Period
Model Results from 2018 and 2019 were used.

*Note: analysis was based on DRBC boat run data. Value below detection limit was set to half of the detection limit.
Middle orange line = median; Edge = 25, 75 percentile; Whiskers = range.*