

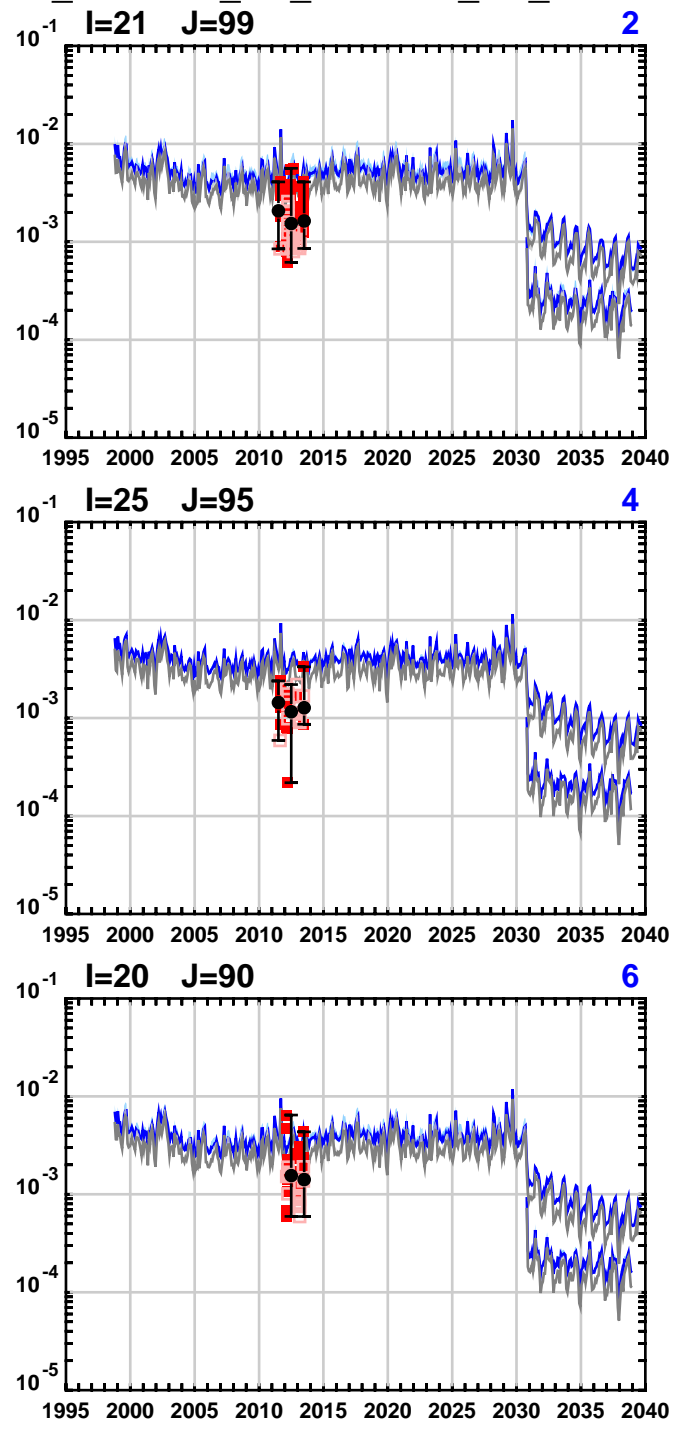
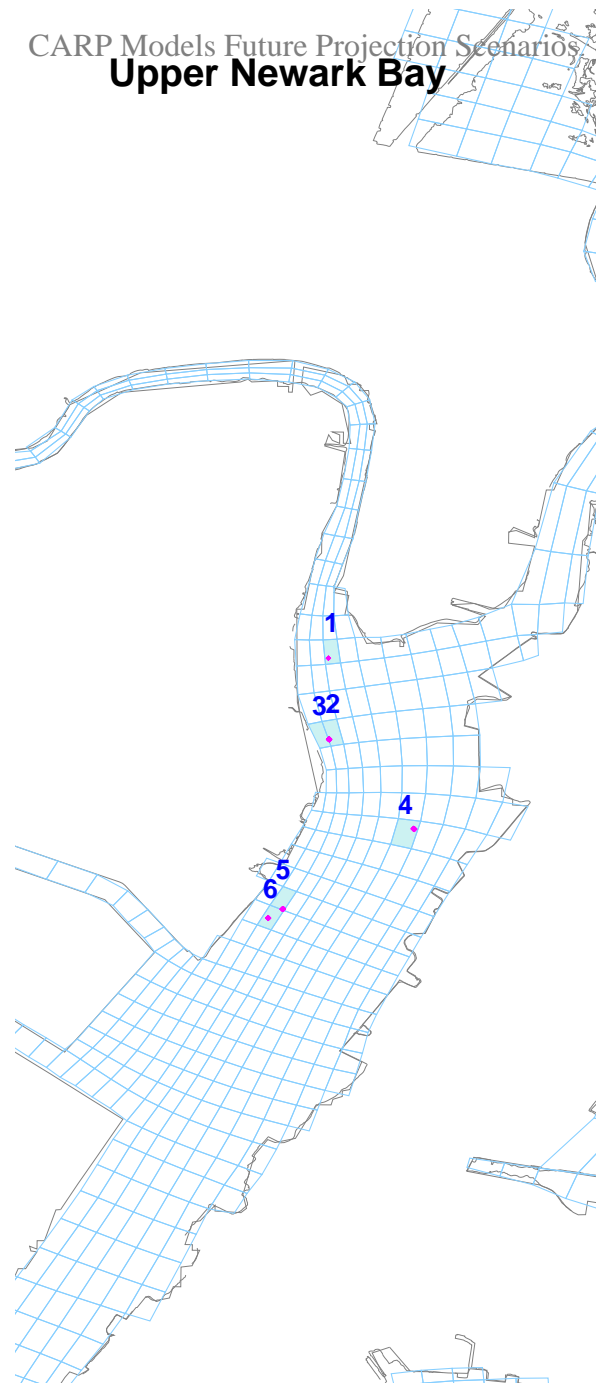
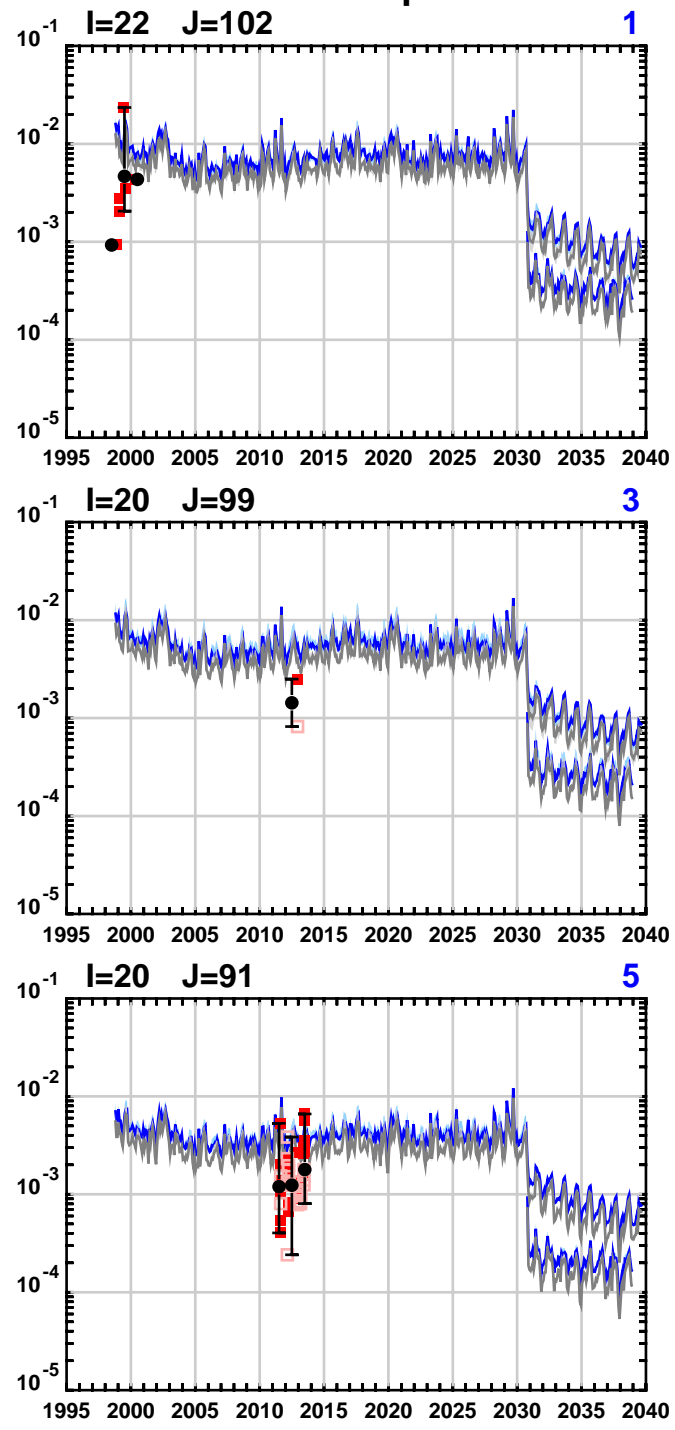
APPENDIX 2

Future Projection Scenarios Contaminant Concentrations Time Series, Water Column

- **Twelve reaches, 61 locations**
- **2,3,7,8-TCDD**
- **Total PCB**
- **2,3,4,7,8-PCDF**
- **di-CB**
- **tetra-CB**
- **hexa-CB**
- **octa-CB**

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

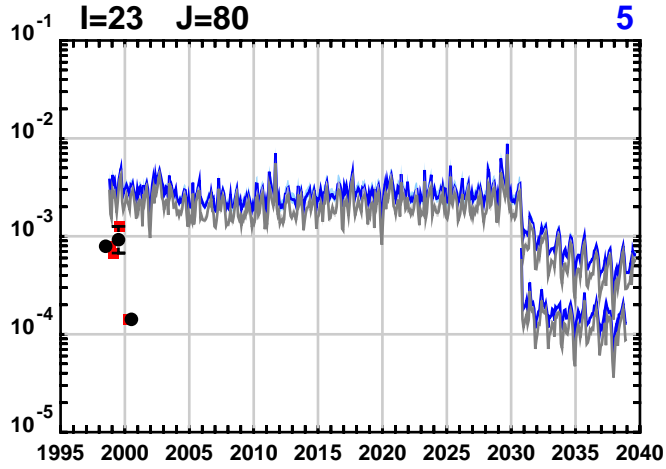
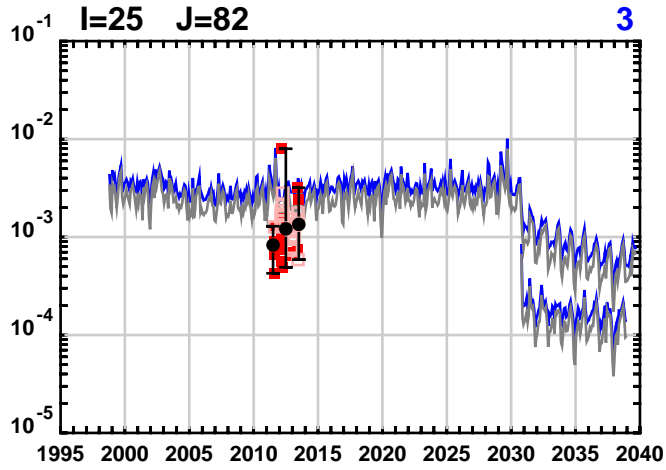
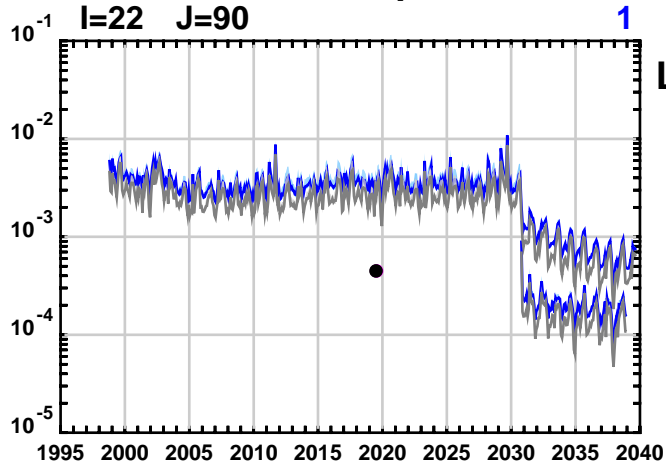
2,3,7,8-Tetrachlorodibenzo-p-dioxin, ng/L



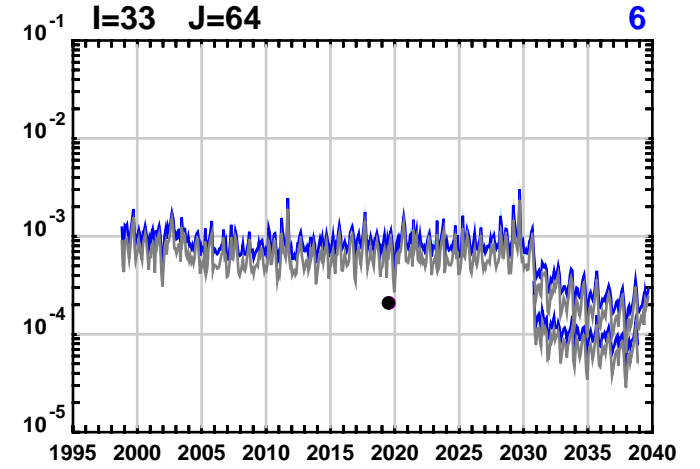
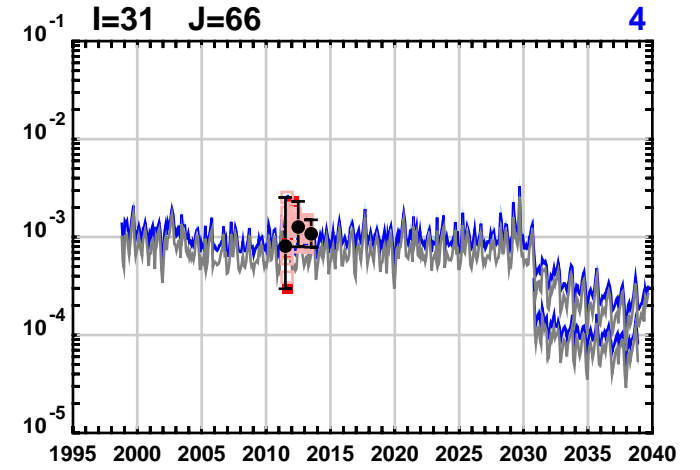
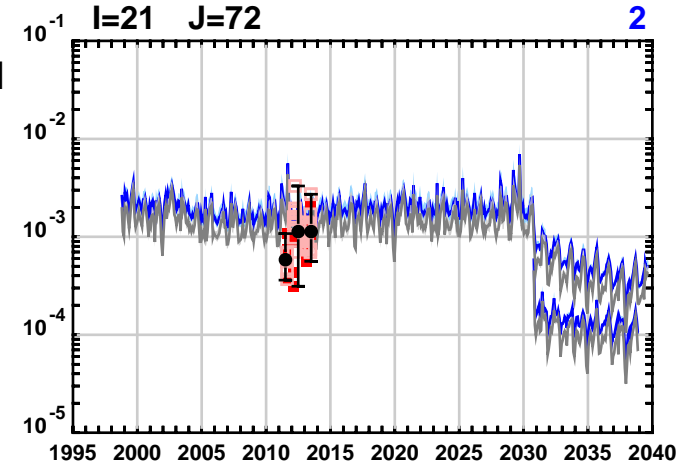
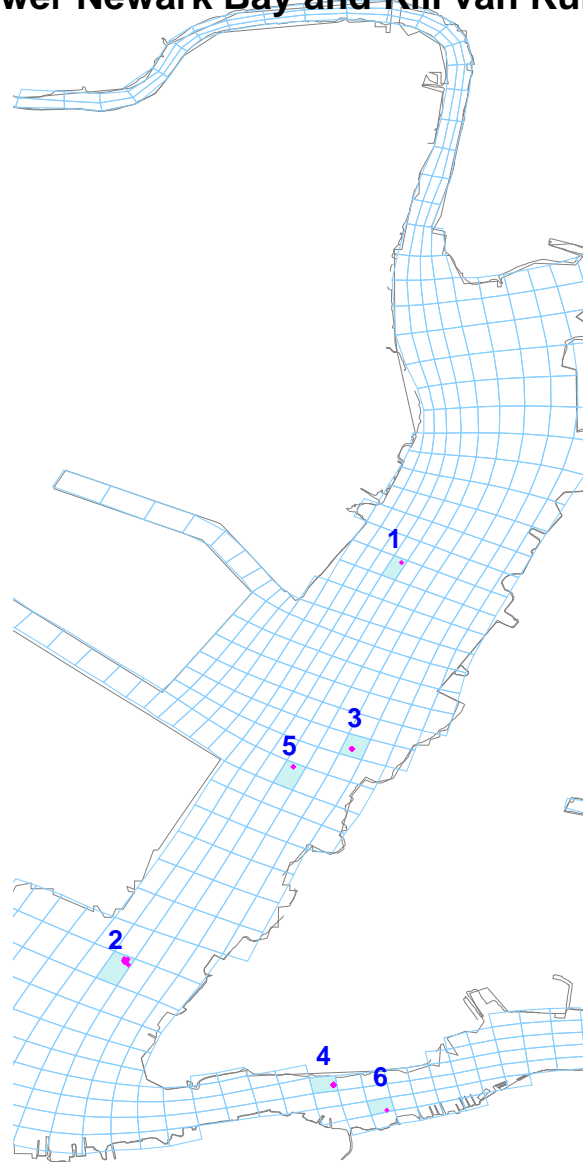
● Detect Data ● Non-Detect Data
— Model: mean and range of values in Water Column
— Model: Particulate Phase mean and range of values in Water Column
● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

2,3,7,8-Tetrachlorodibenzo-p-dioxin, ng/L



CARP Models Future Projection Scenarios Lower Newark Bay and Kill van Kull



Detect Data

Non-Detect Data

Model: mean and range of values in Water Column

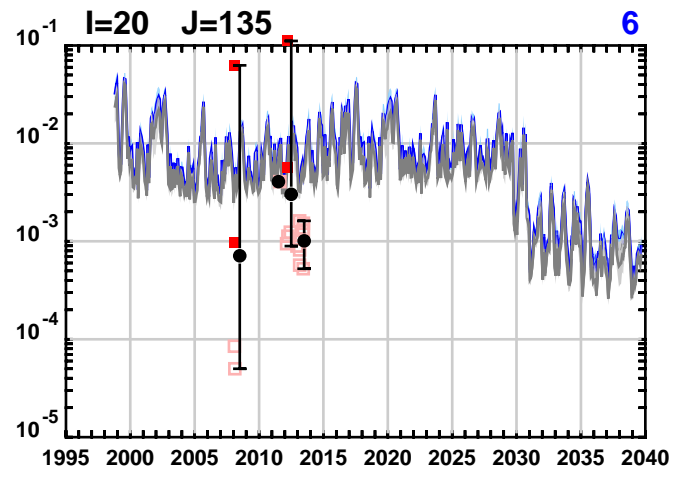
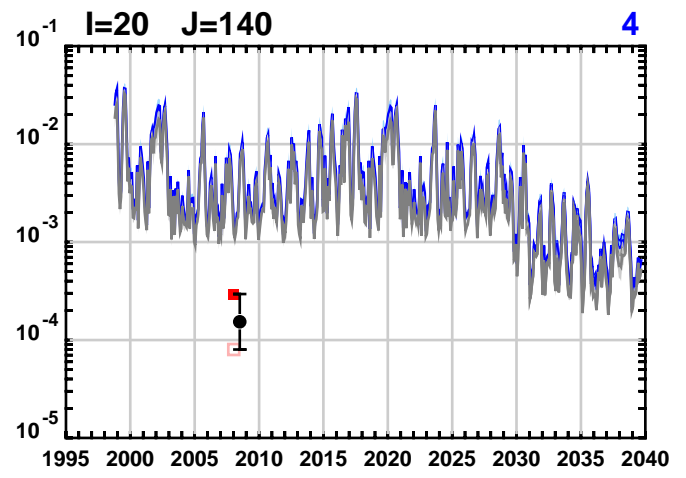
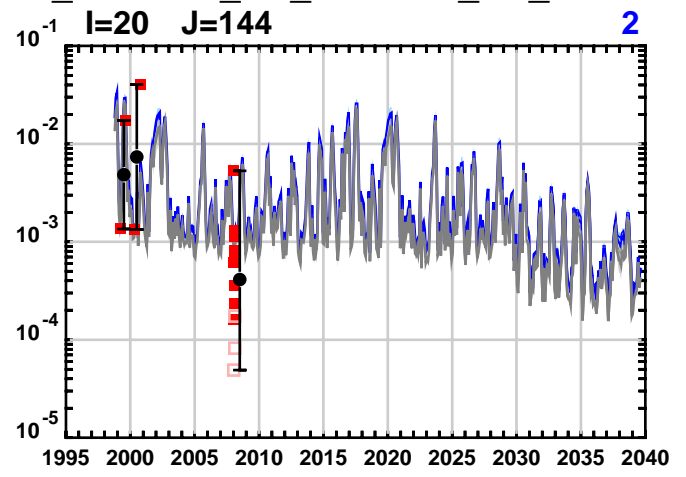
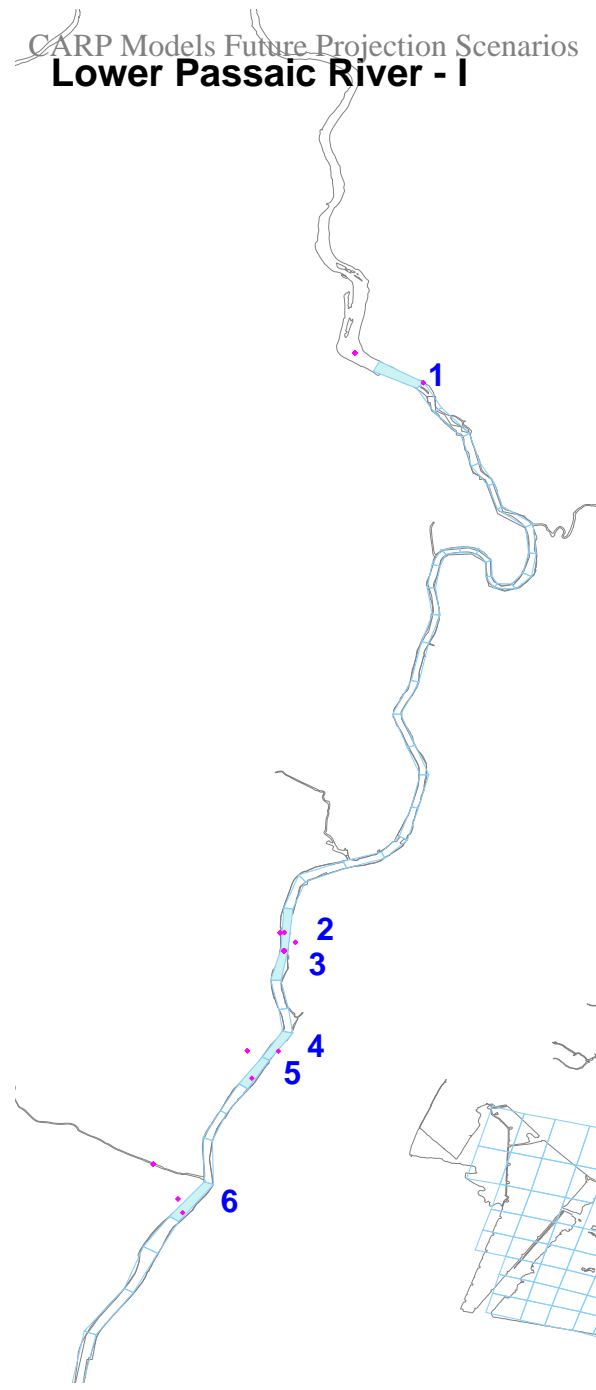
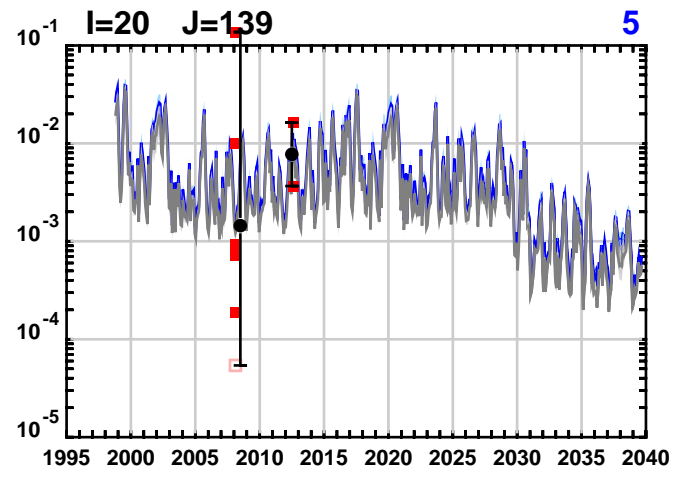
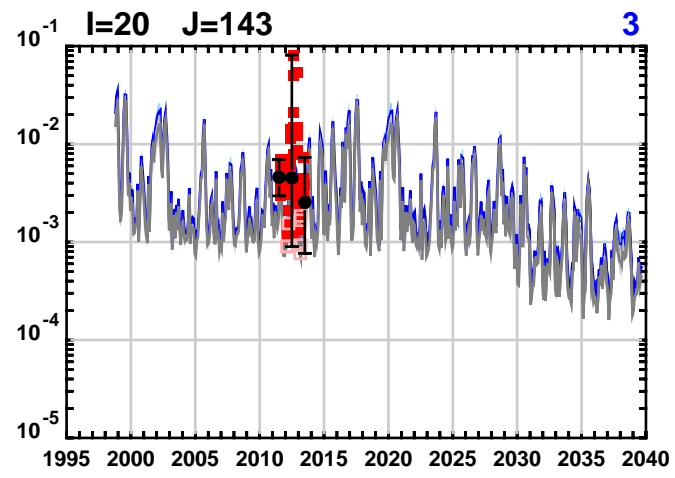
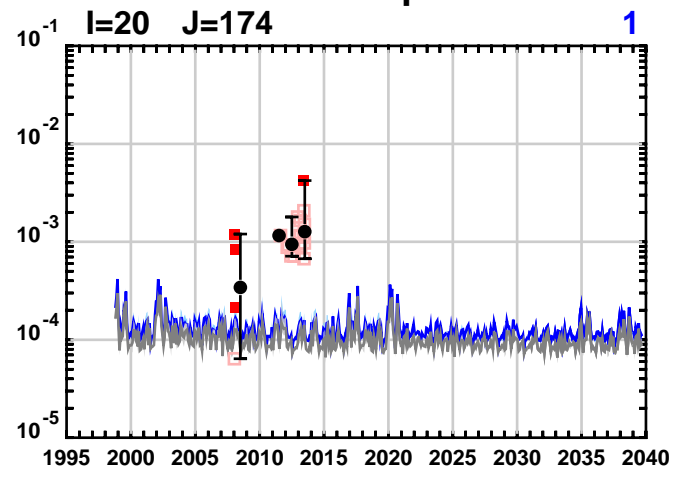
Model: Particulate Phase mean and range of values in Water Column

● **Water Column Data: yearly mean and range**

● **CARP2 Data**

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

2,3,7,8-Tetrachlorodibenzo-p-dioxin, ng/L

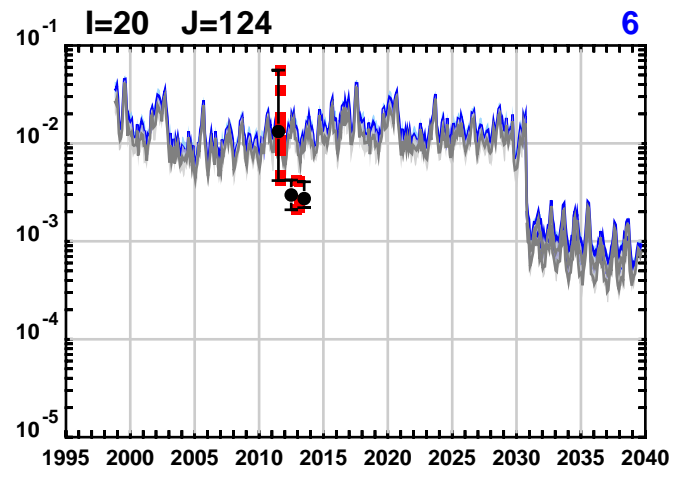
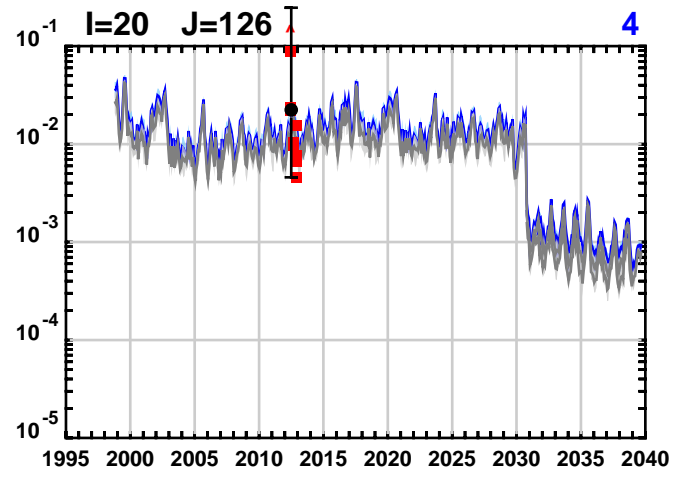
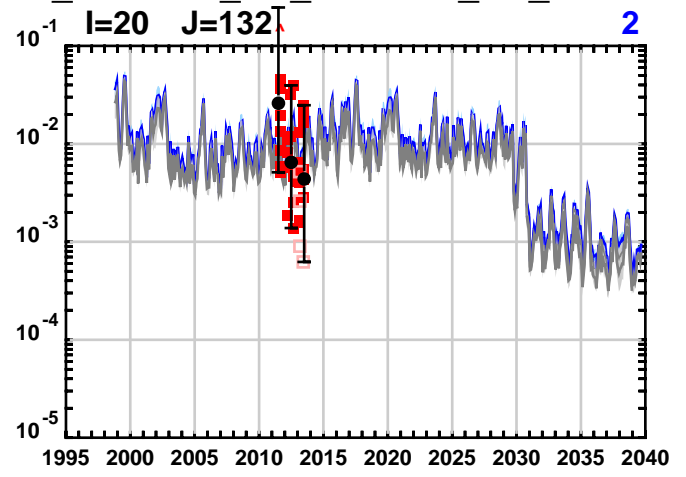
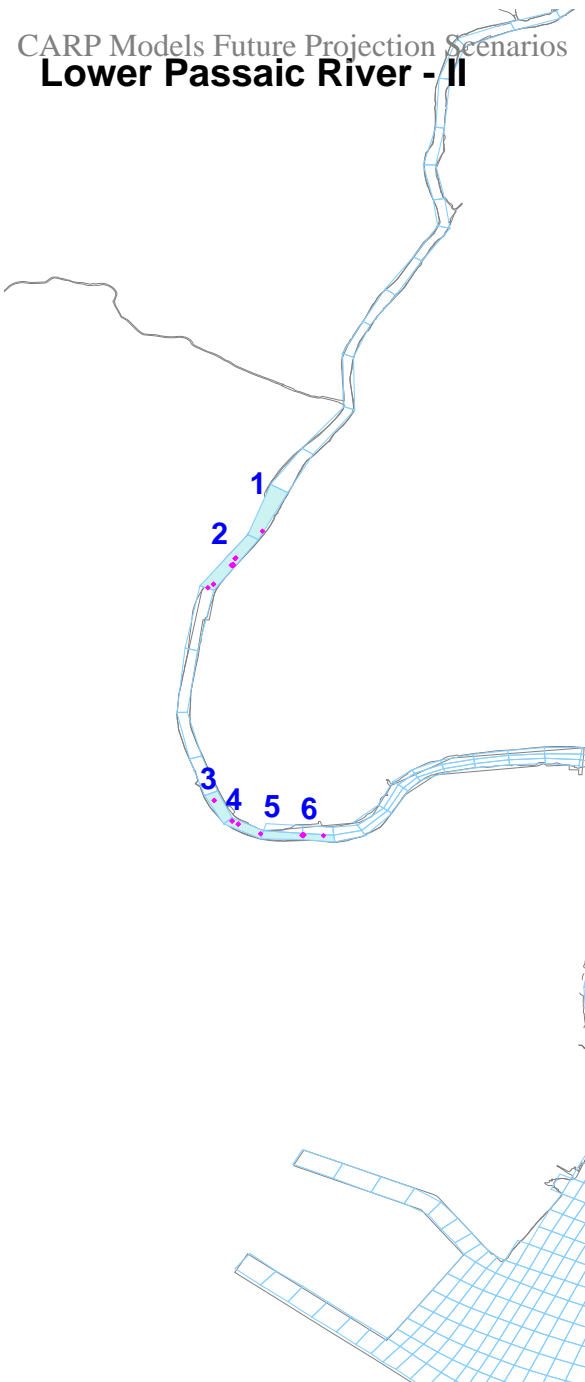
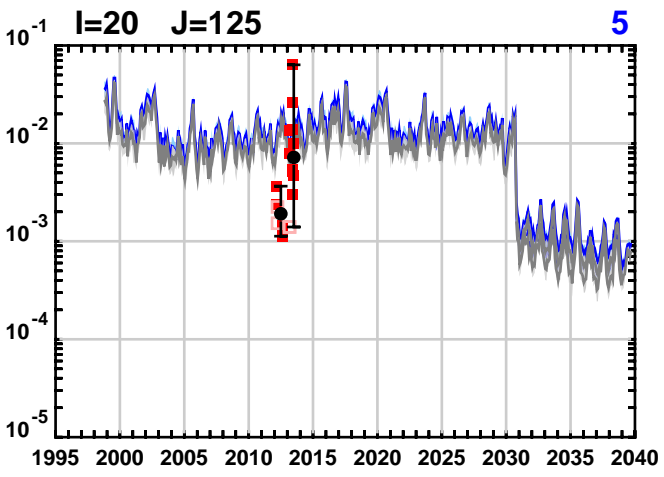
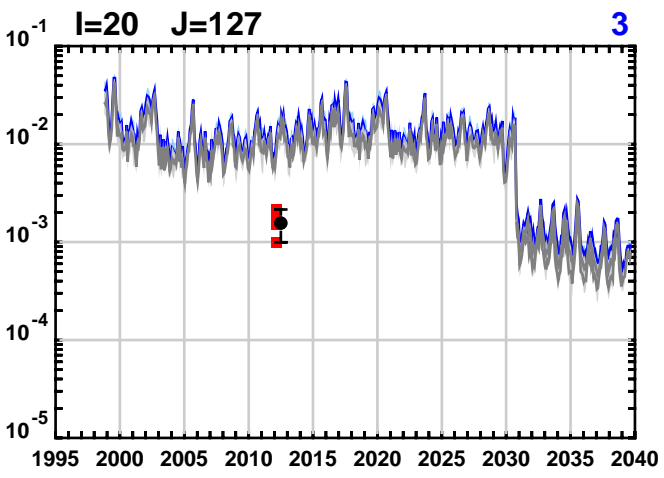
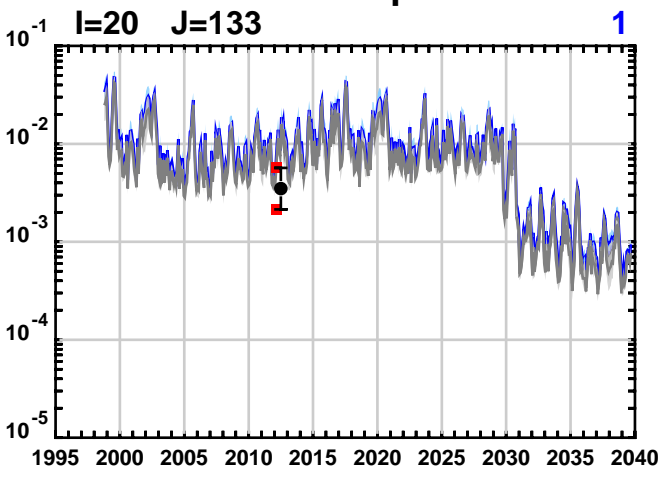


● Detect Data ● Non-Detect Data
— Model: mean and range of values in Water Column
— Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

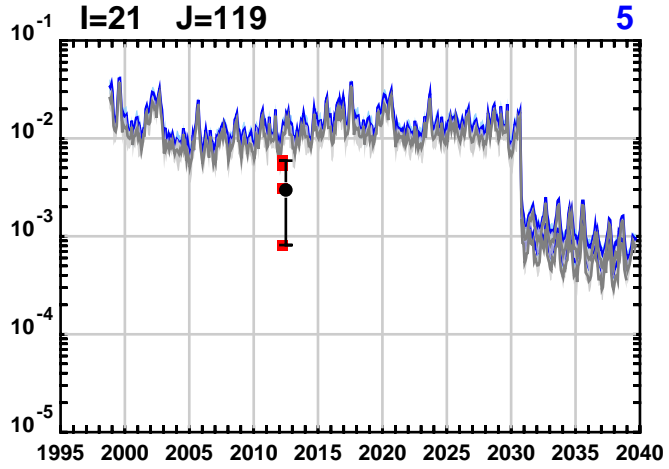
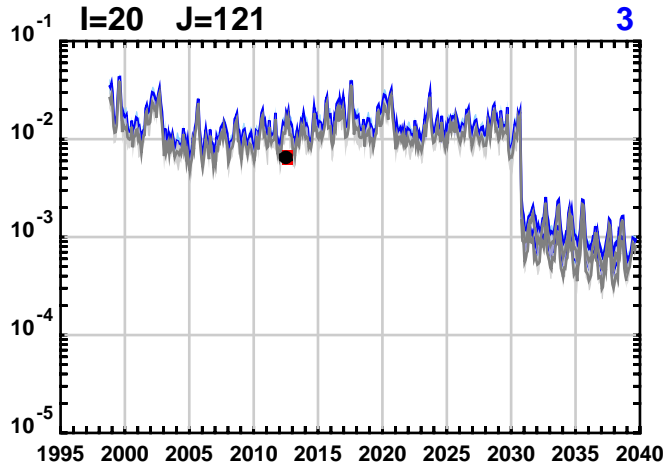
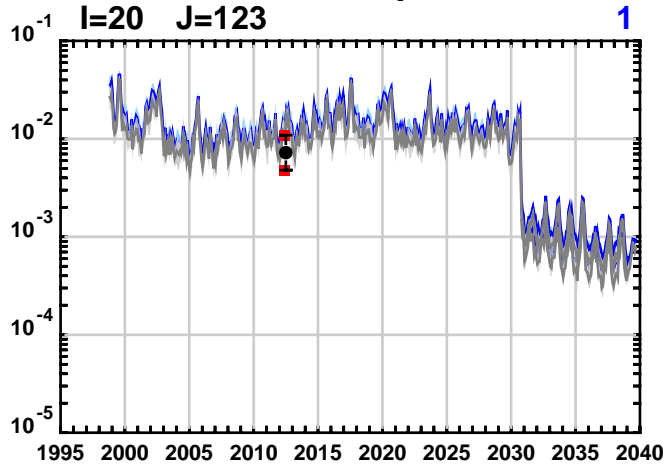
2,3,7,8-Tetrachlorodibenzo-p-dioxin, ng/L



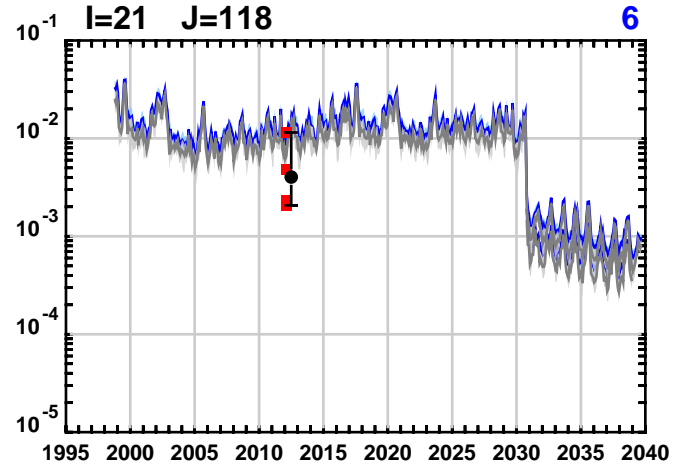
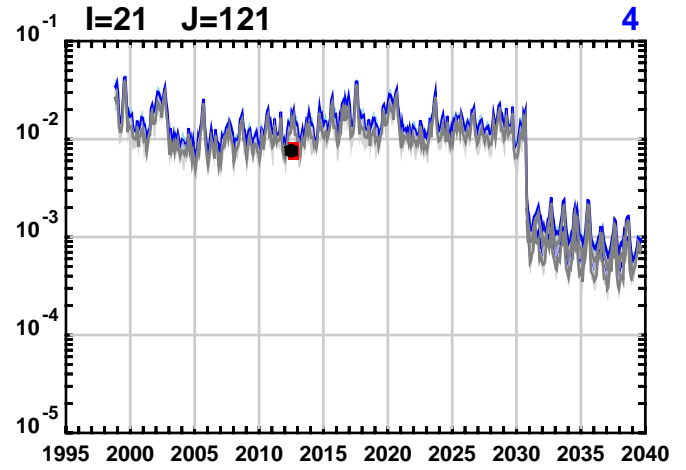
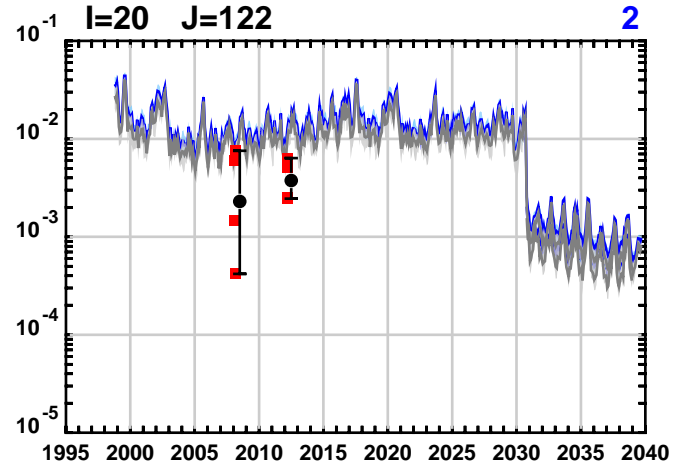
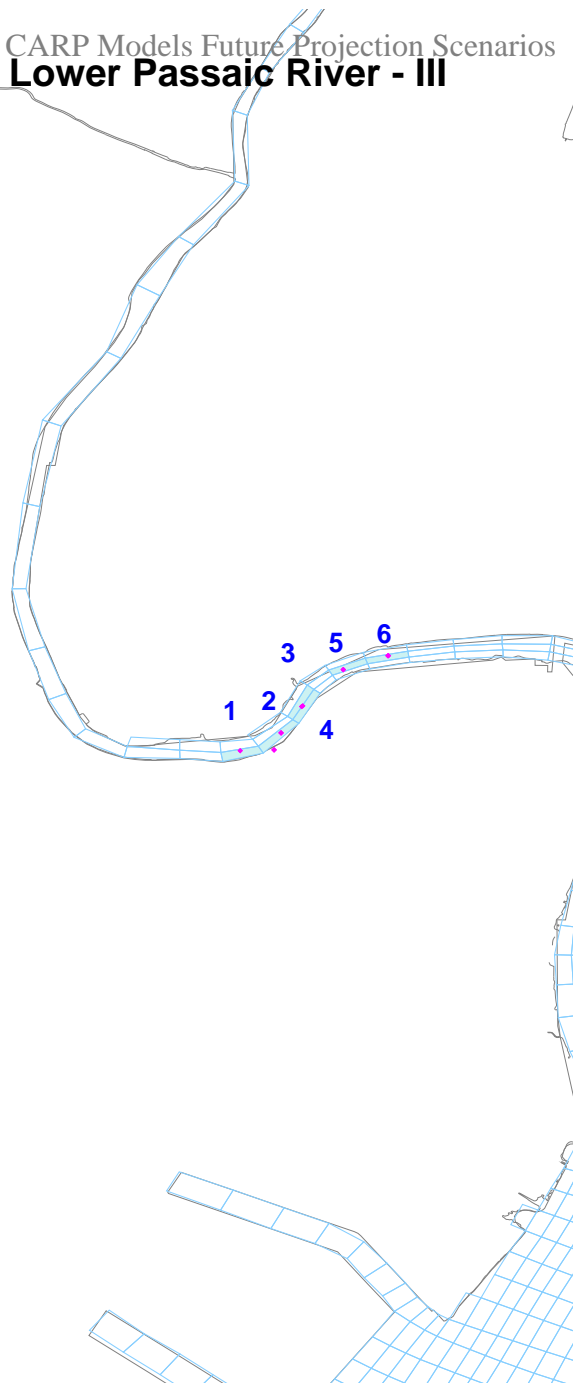
● Detect Data ● Non-Detect Data
— Model: mean and range of values in Water Column
— Model: Particulate Phase mean and range of values in Water Column
● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

2,3,7,8-Tetrachlorodibenzo-p-dioxin, ng/L



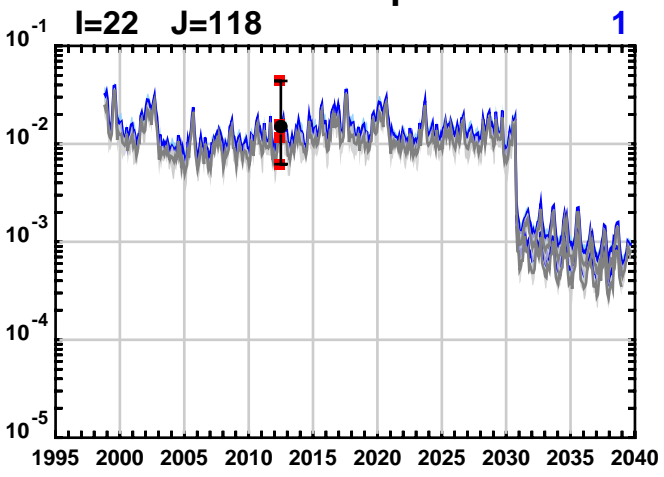
CARP Models Future Projection Scenarios Lower Passaic River - III



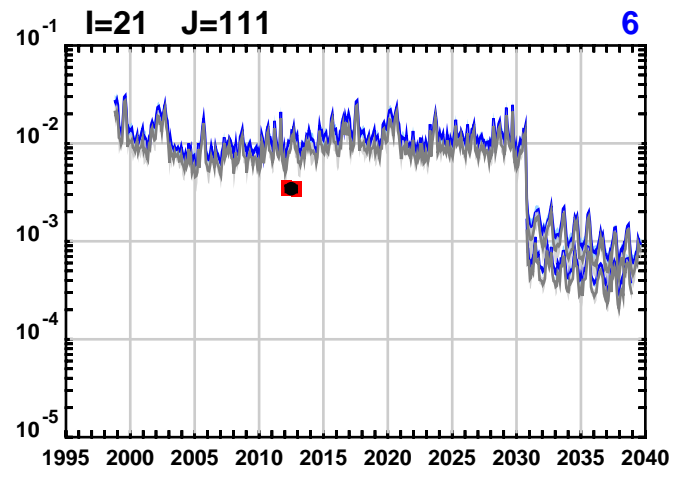
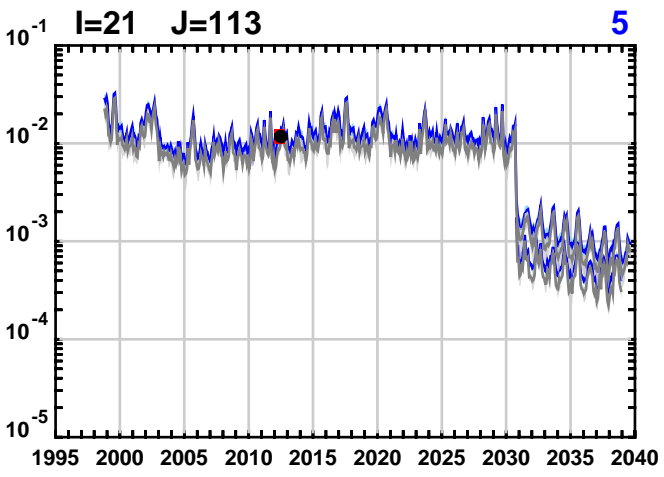
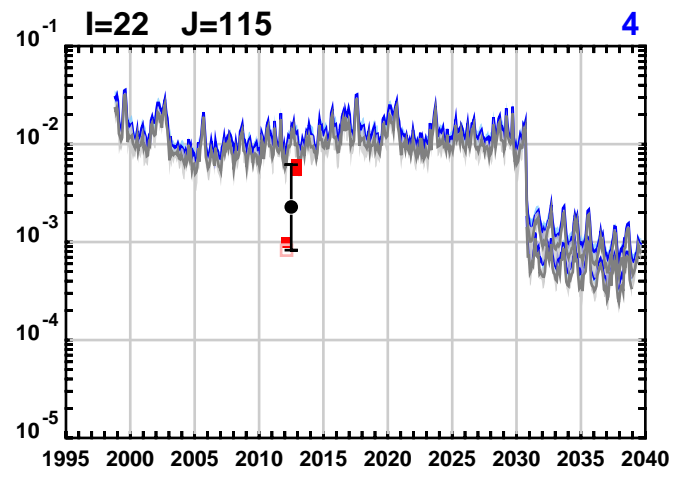
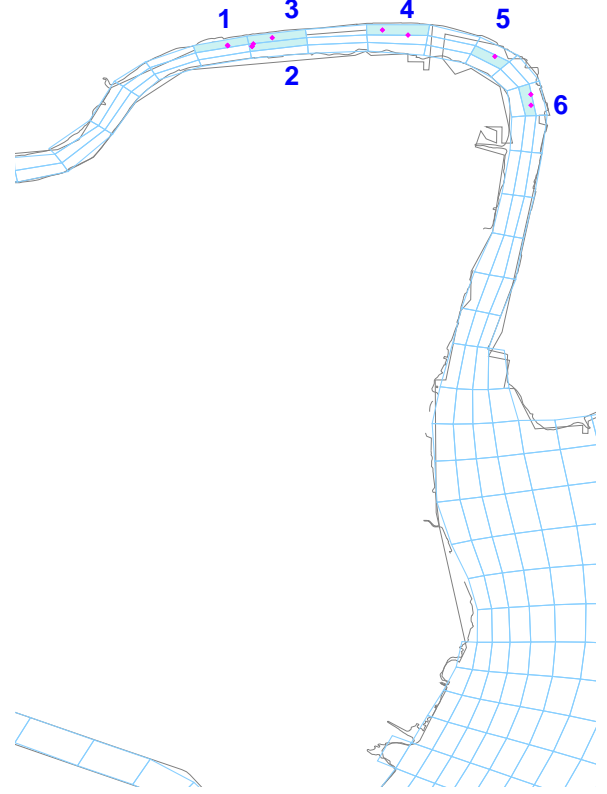
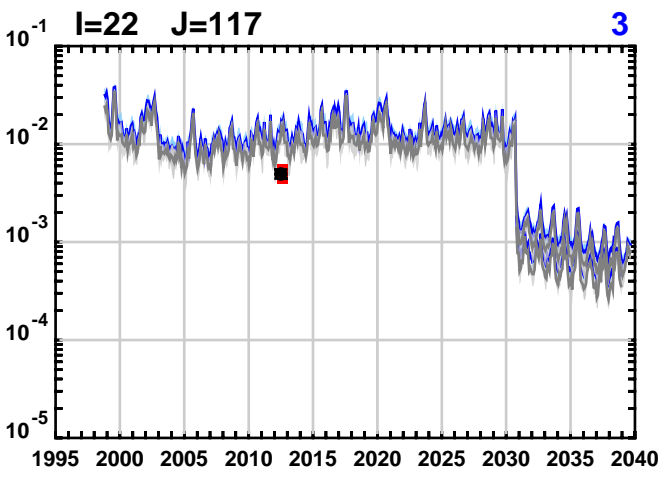
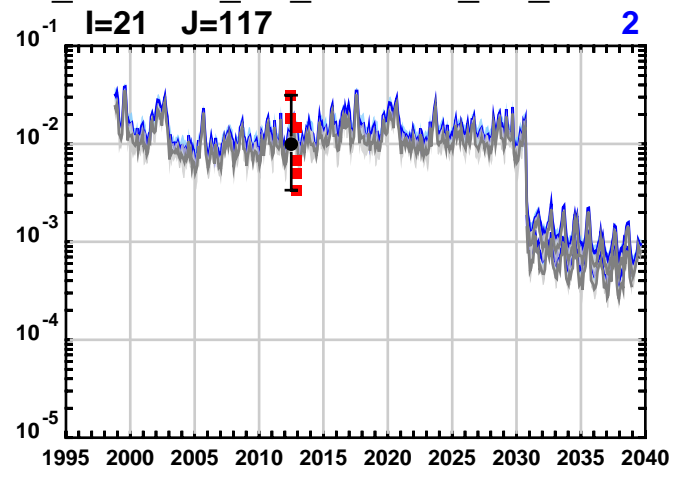
● Detect Data ■ Non-Detect Data
— Model: mean and range of values in Water Column
— Model: Particulate Phase mean and range of values in Water Column
● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

2,3,7,8-Tetrachlorodibenzo-p-dioxin, ng/L



CARP Models Future Projection Scenarios
Lower Passaic River - IV

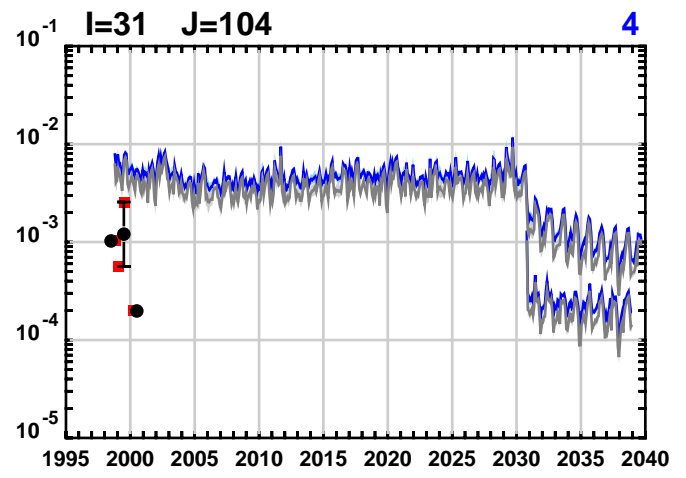
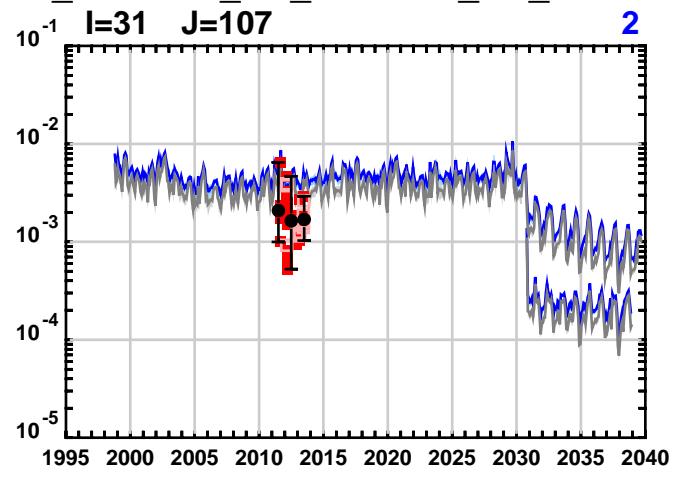
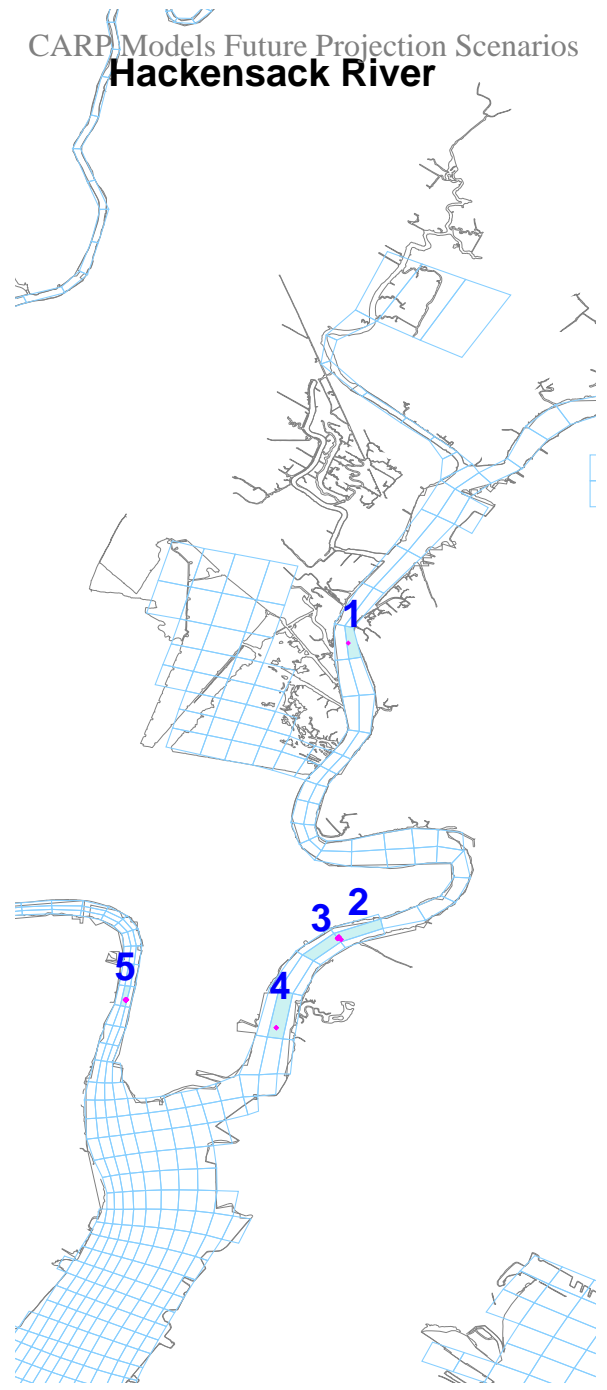
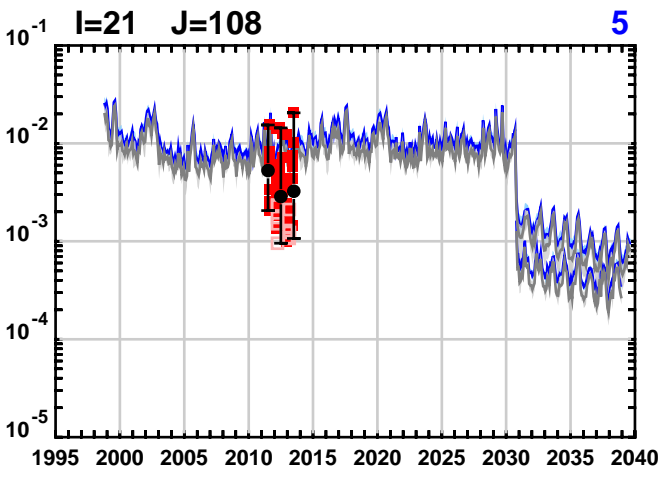
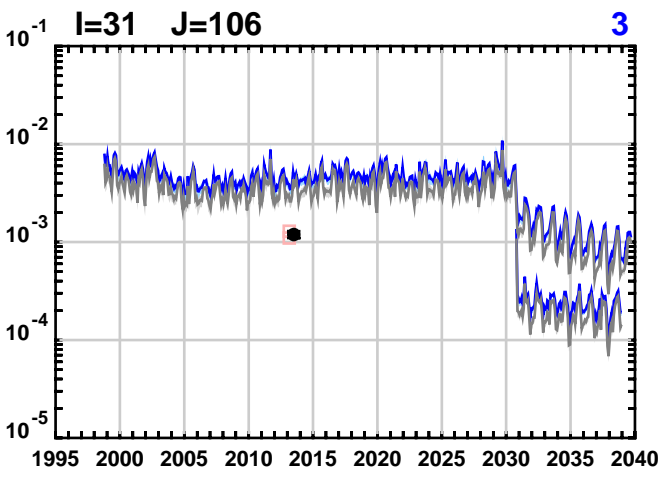
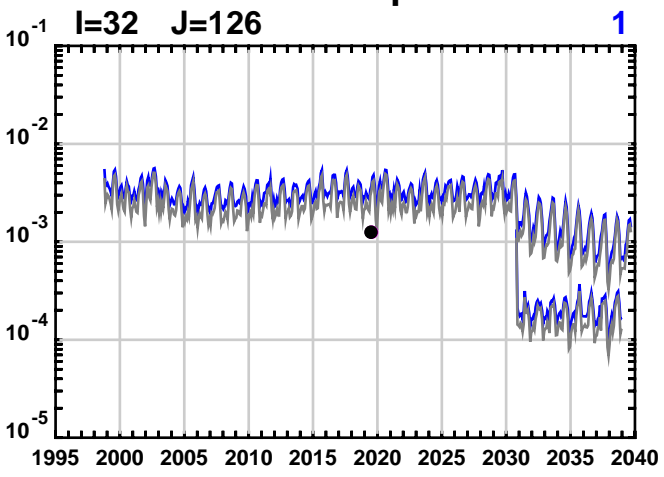


● Detect Data ■ Non-Detect Data
■ Model: mean and range of values in Water Column
■ Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

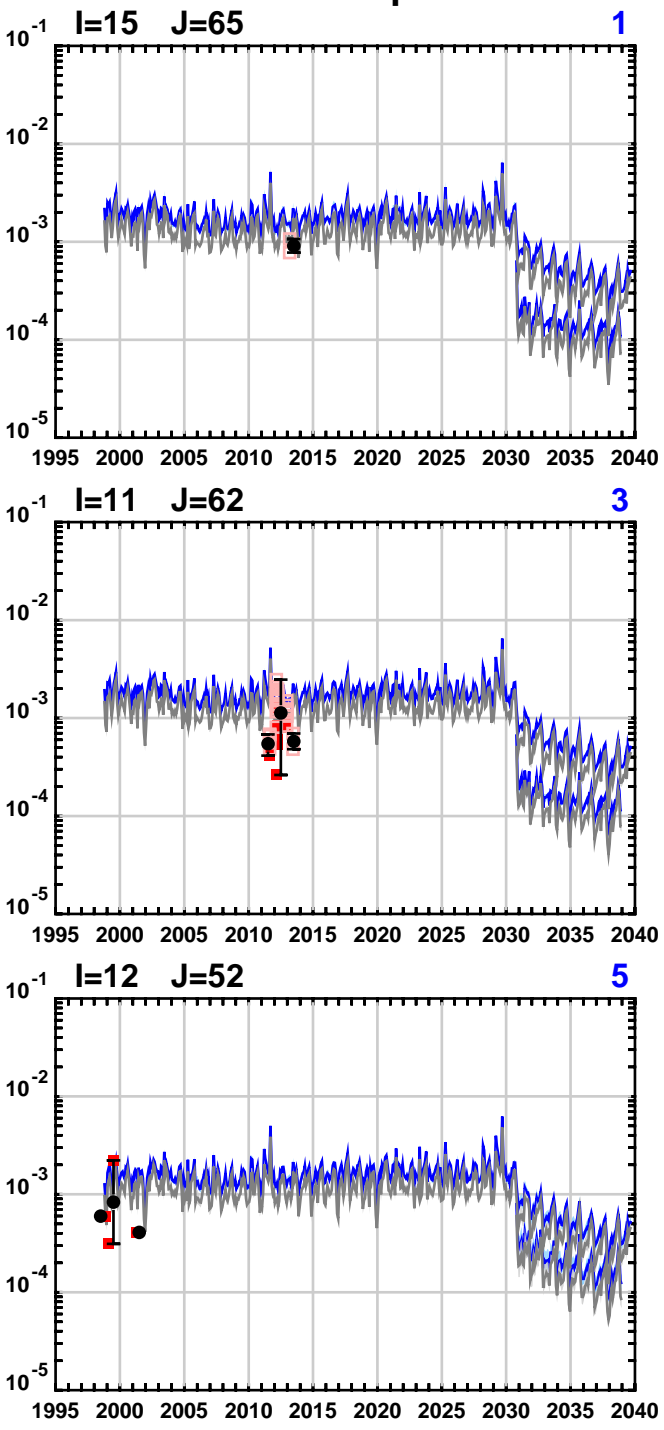
2,3,7,8-Tetrachlorodibenzo-p-dioxin, ng/L



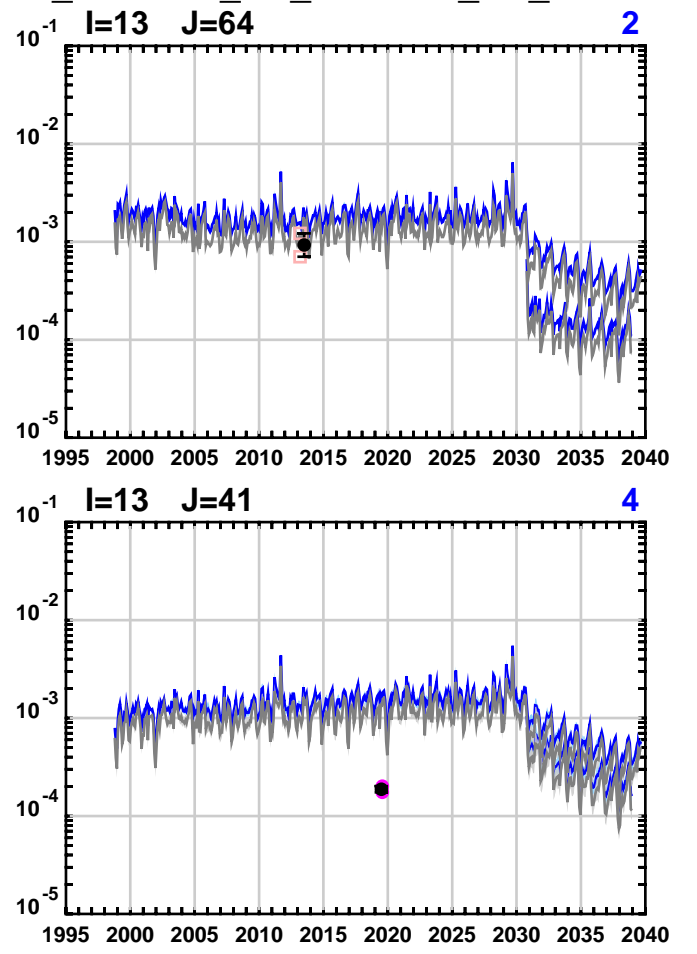
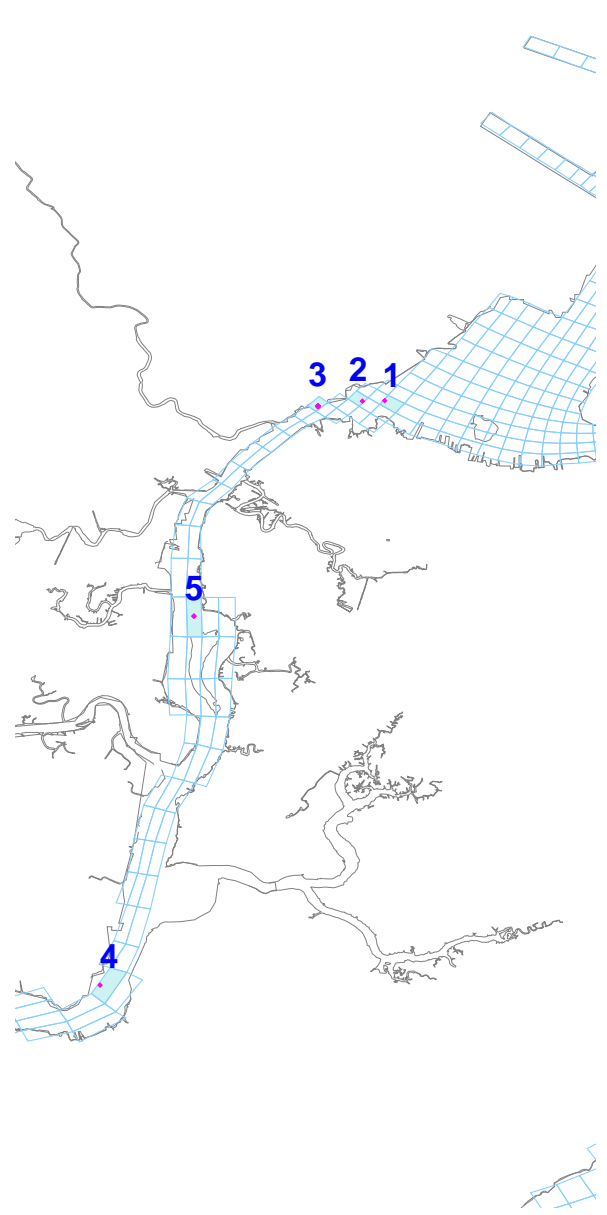
● Detect Data ● Non-Detect Data
— Model: mean and range of values in Water Column
— Model: Particulate Phase mean and range of values in Water Column
● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

2,3,7,8-Tetrachlorodibenzo-p-dioxin, ng/L



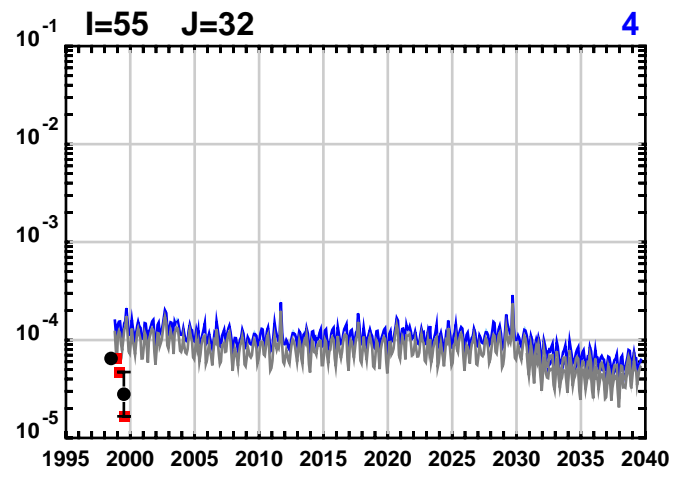
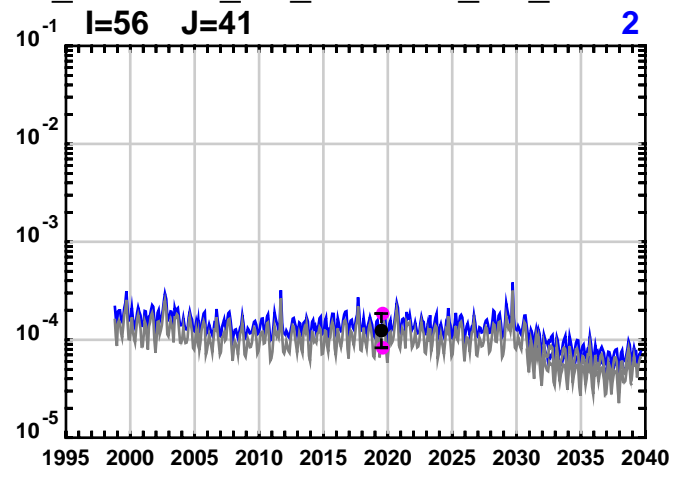
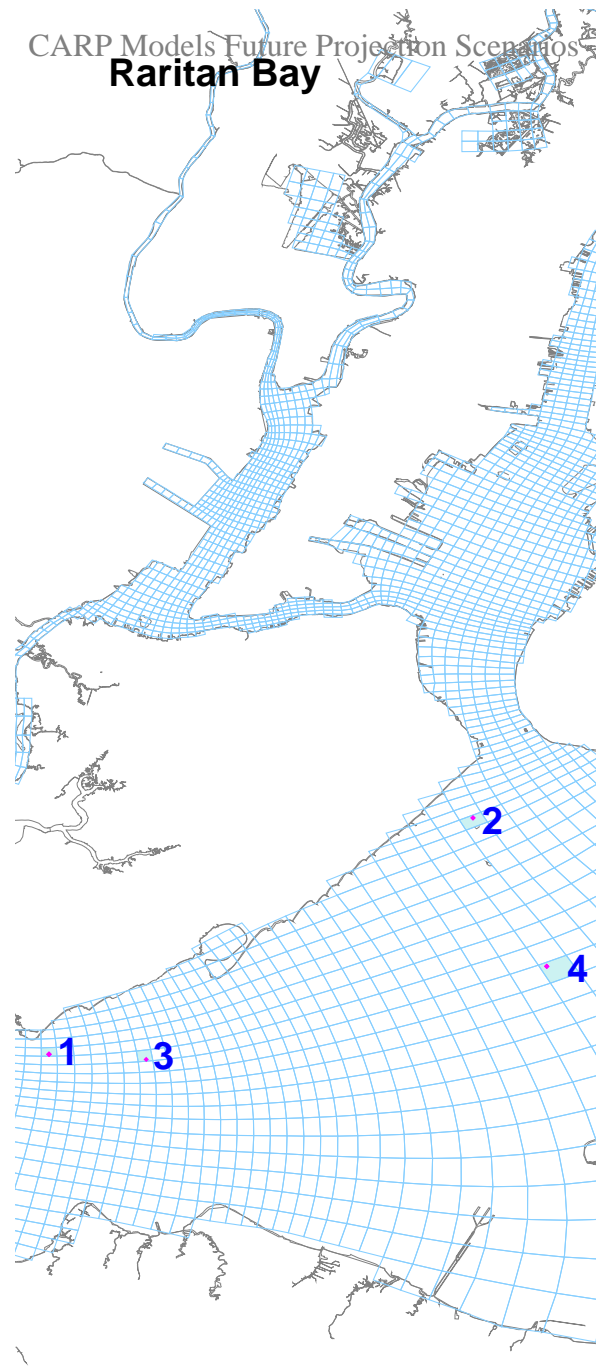
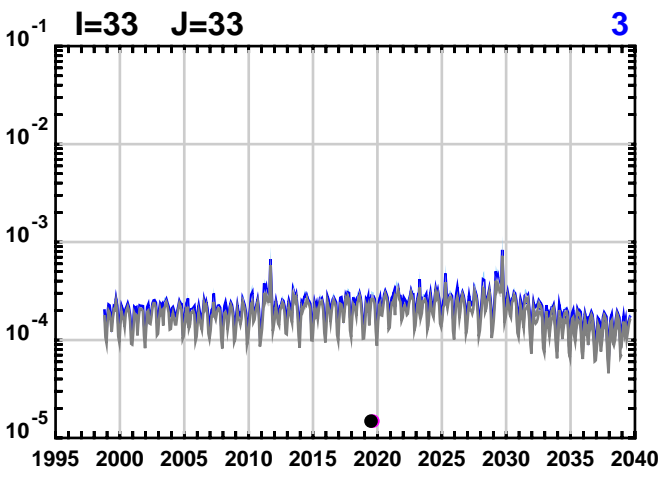
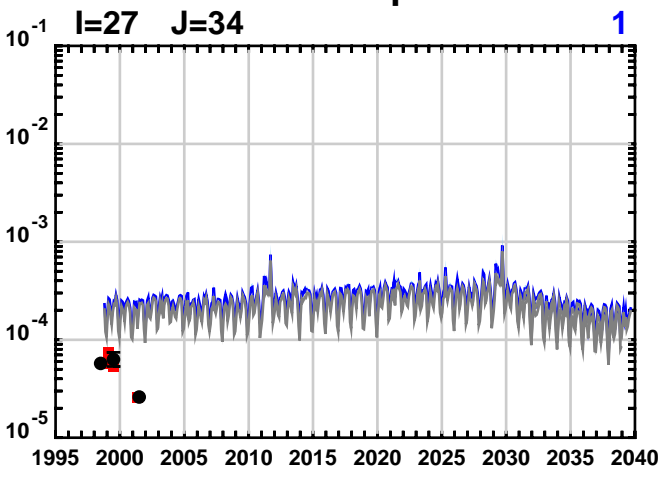
CARP Models Future Projection Scenarios
Arthur Kill



● Detect Data ● Non-Detect Data
● Model: mean and range of values in Water Column
● Model: Particulate Phase mean and range of values in Water Column
● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

2,3,7,8-Tetrachlorodibenzo-p-dioxin, ng/L

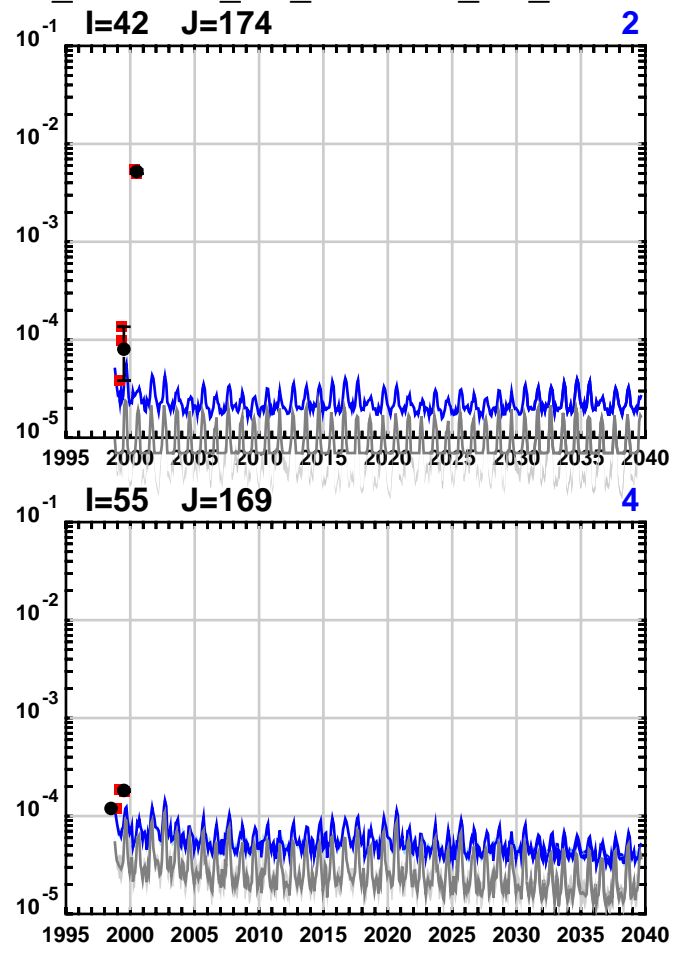
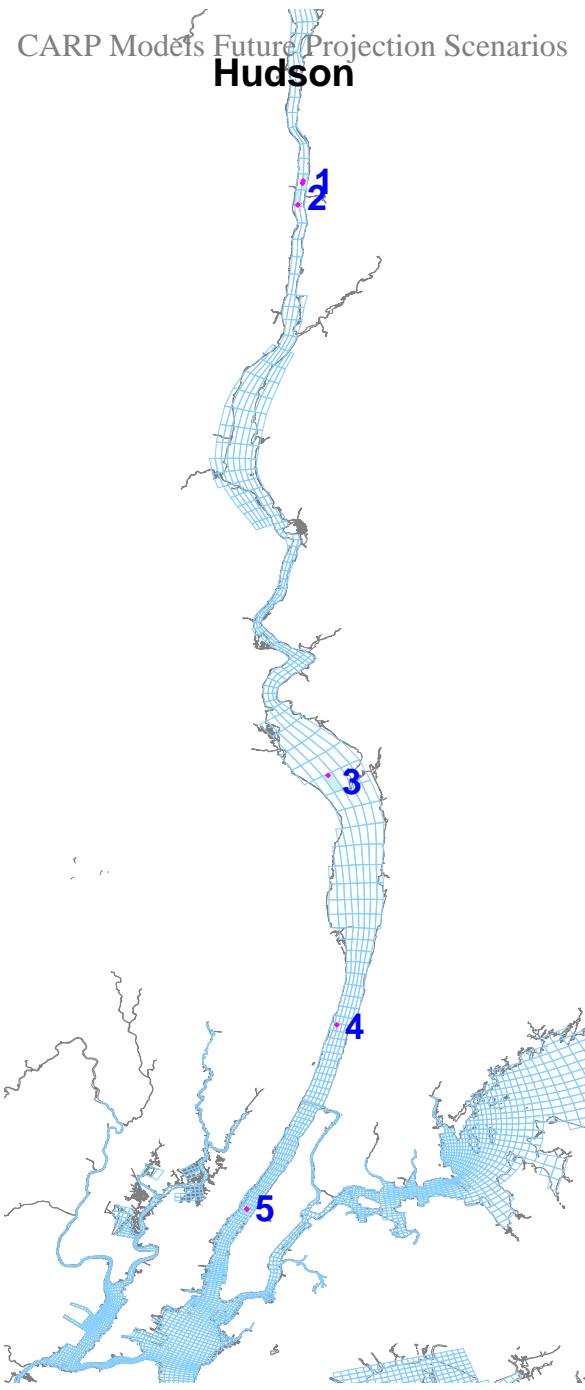
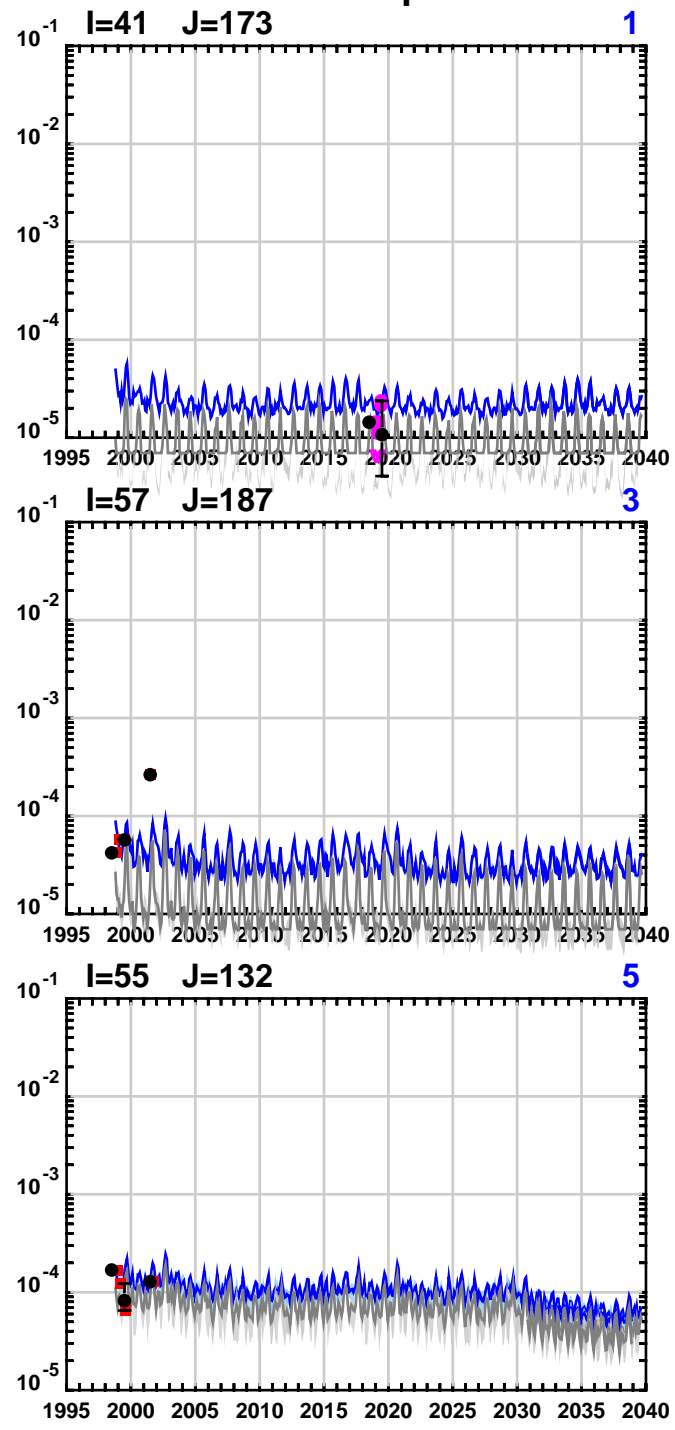


Detect Data **Non-Detect Data**
Model: mean and range of values in Water Column
 Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range
 ● CARP2 Data

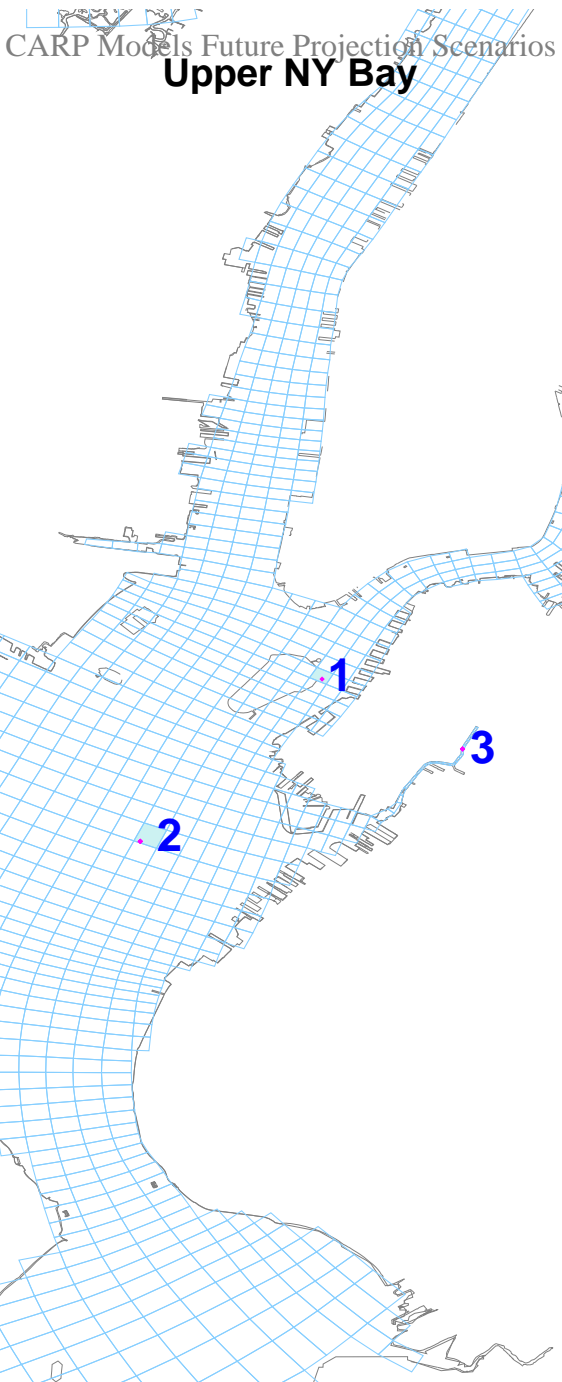
Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

2,3,7,8-Tetrachlorodibenzo-p-dioxin, ng/L

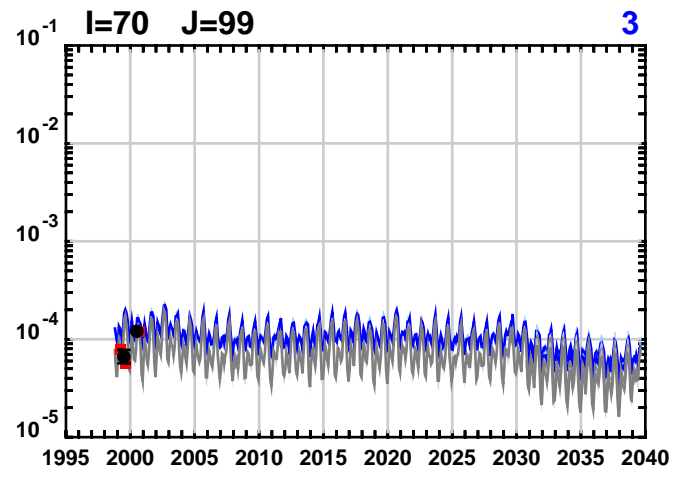
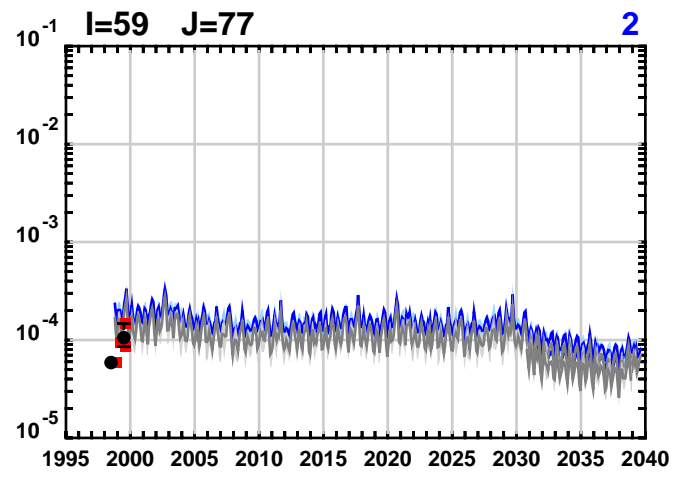
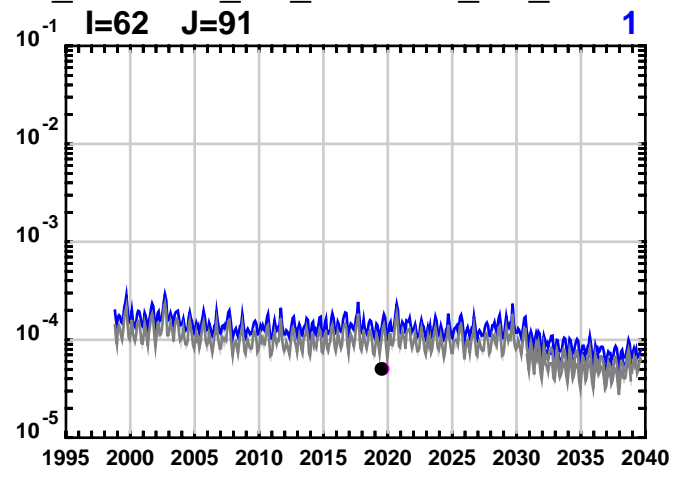


● Detect Data ● Non-Detect Data
— Model: mean and range of values in Water Column
— Model: Particulate Phase mean and range of values in Water Column
● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



2,3,7,8-Tetrachlorodibenzo-p-dioxin, ng/L



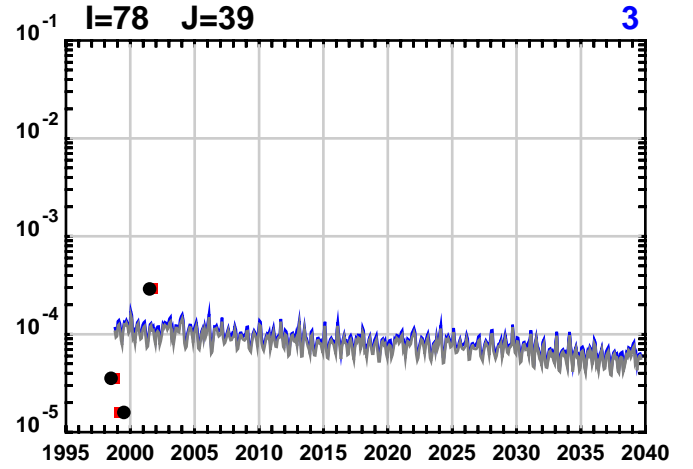
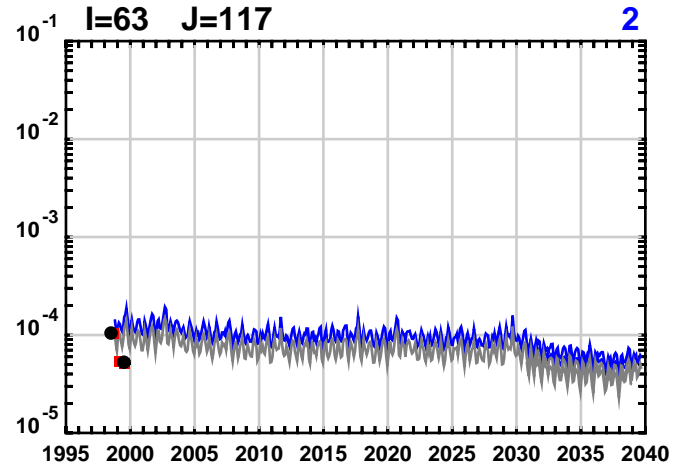
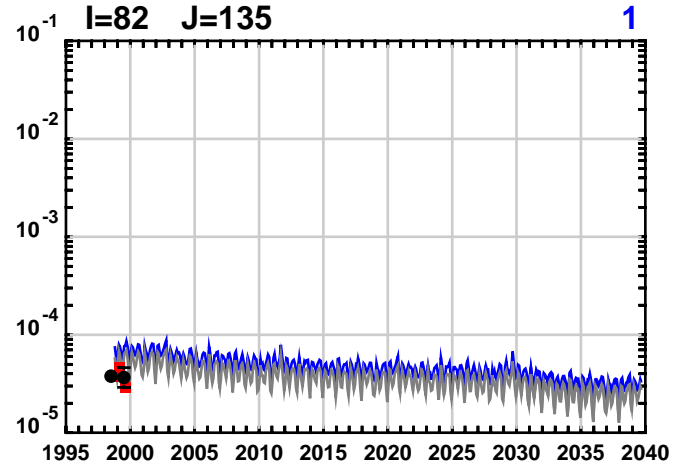
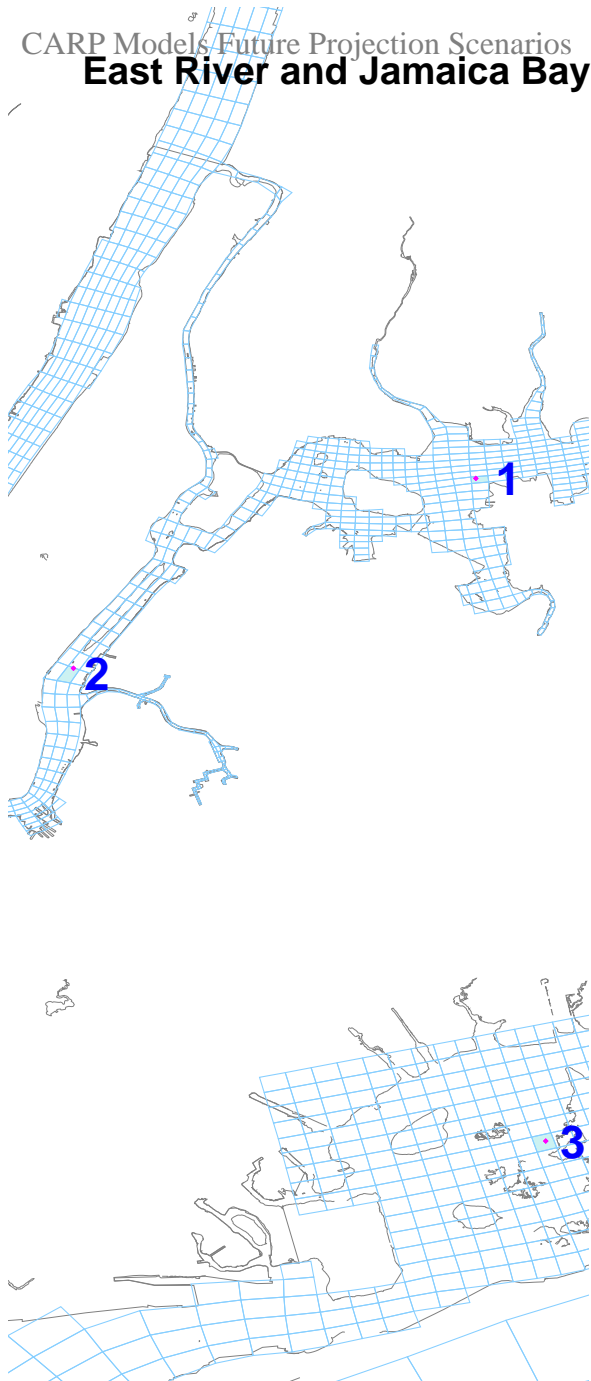
Detect Data **Non-Detect Data**
Model: mean and range of values in Water Column
 Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range
 ● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

2,3,7,8-Tetrachlorodibenzo-p-dioxin, ng/L

CARP Models Future Projection Scenarios East River and Jamaica Bay

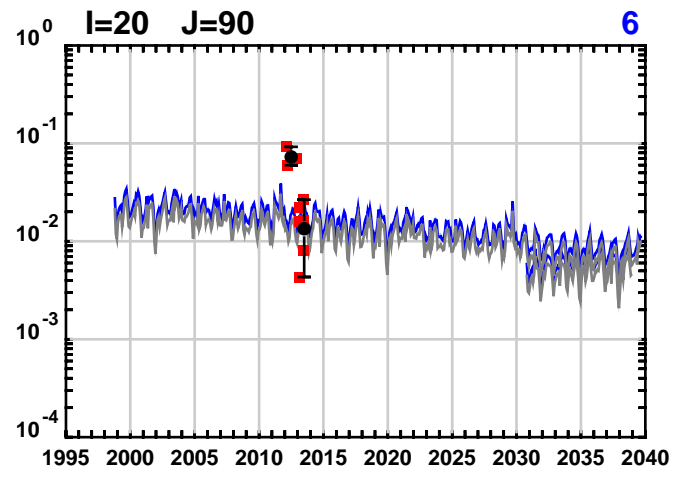
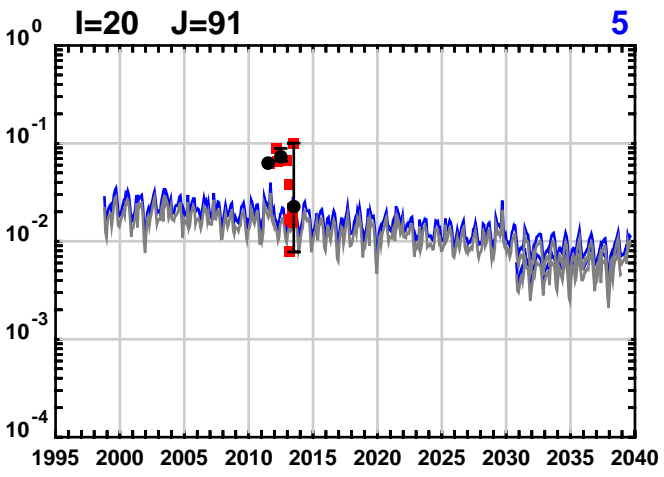
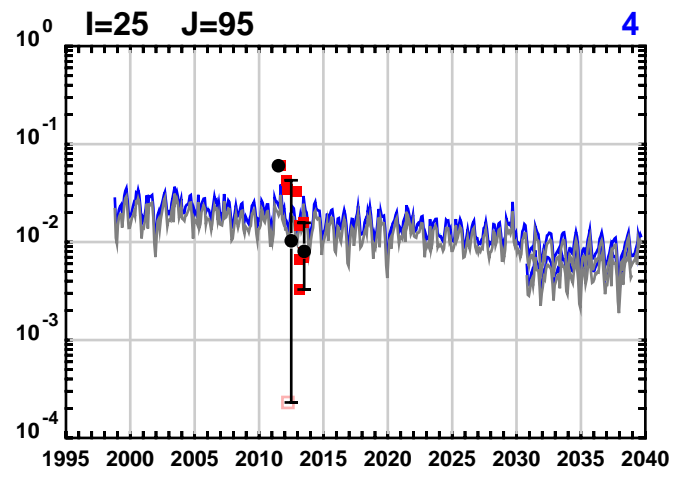
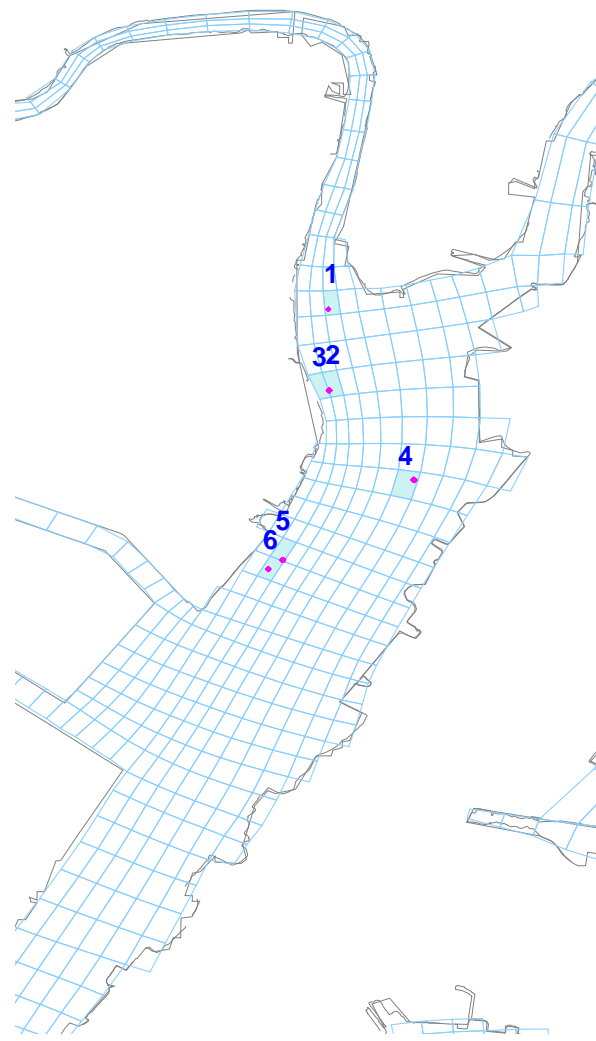
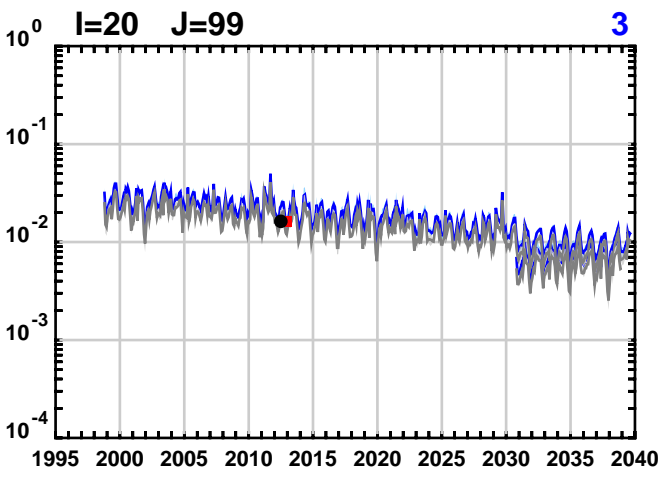
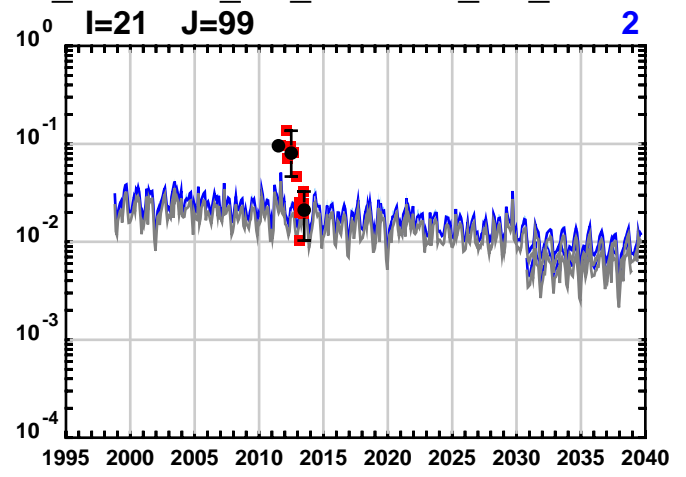
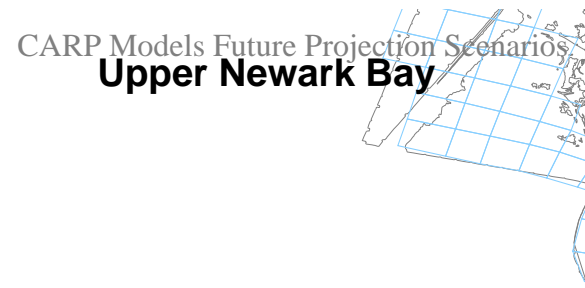
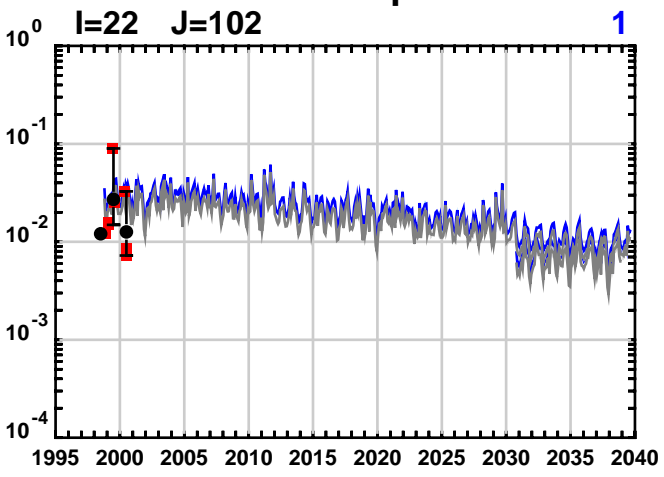


Detect Data **Non-Detect Data**
Model: mean and range of values in Water Column
 Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range
 ● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

PCB, Total Congeners, ug/L

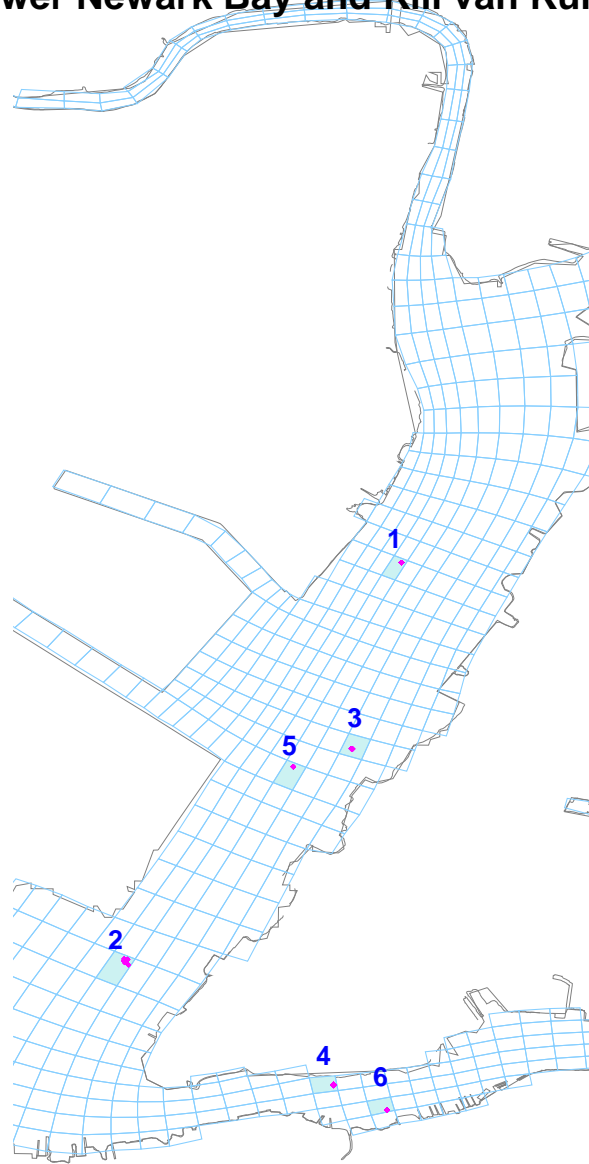
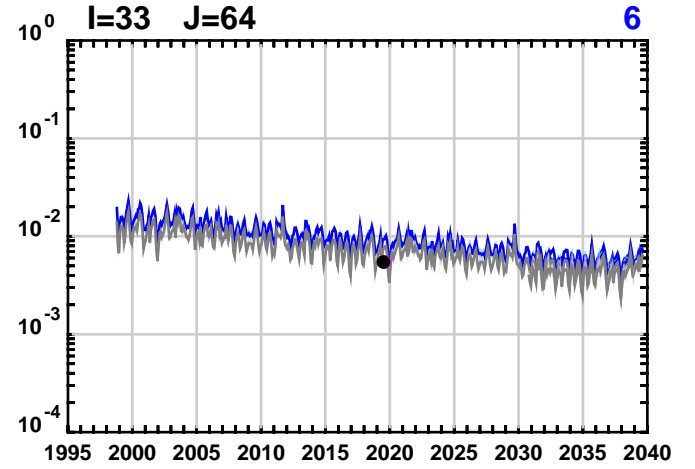
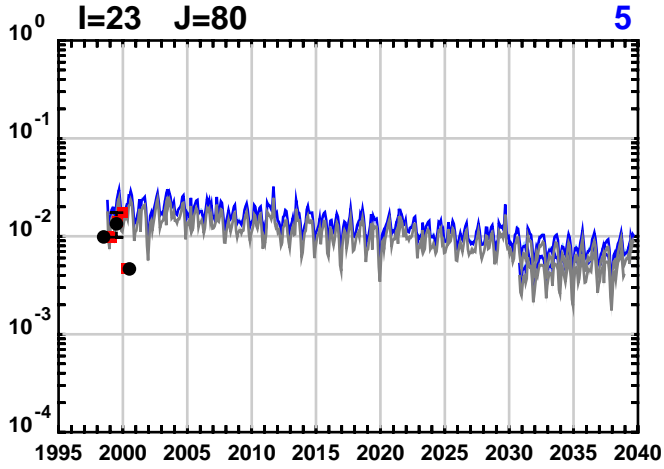
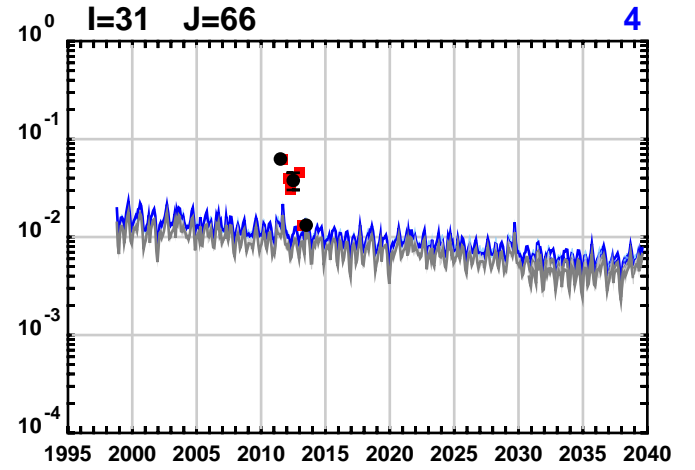
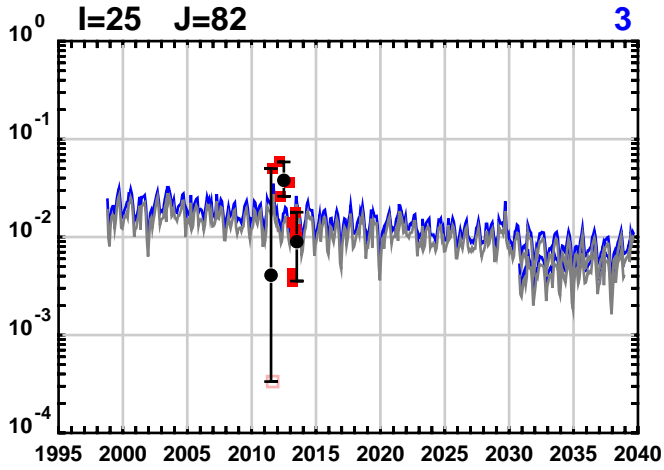
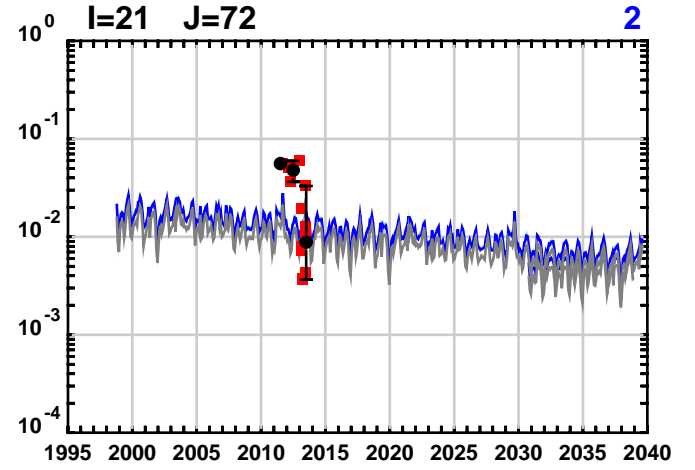
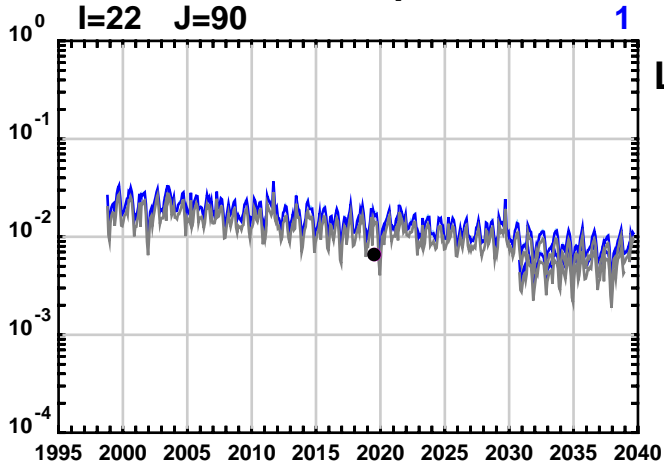


● Detect Data ● Non-Detect Data
— Model: mean and range of values in Water Column
— Model: Particulate Phase mean and range of values in Water Column
● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

PCB, Total Congeners, ug/L

CARP Models Future Projection Scenarios Lower Newark Bay and Kill van Kull

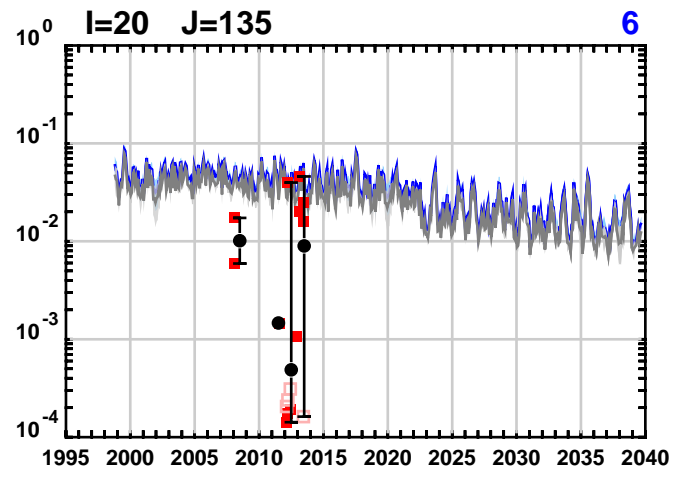
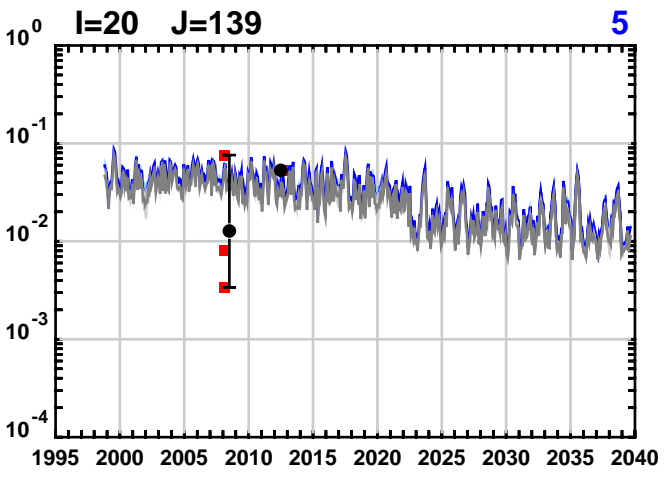
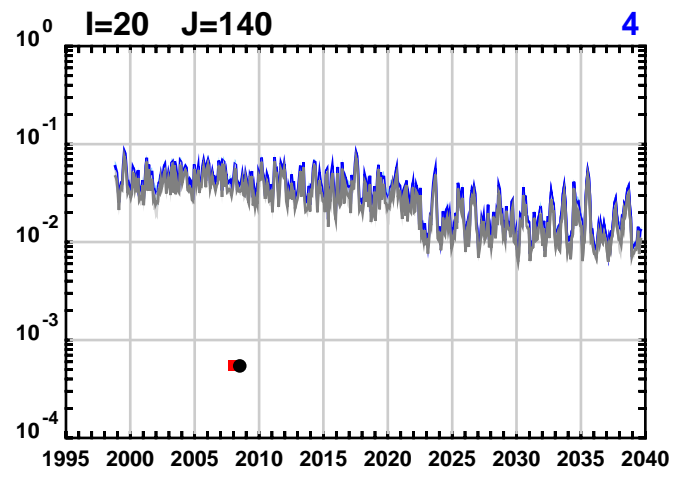
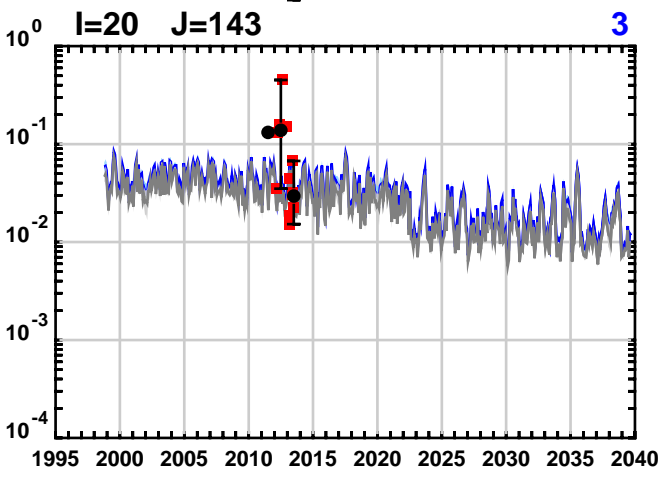
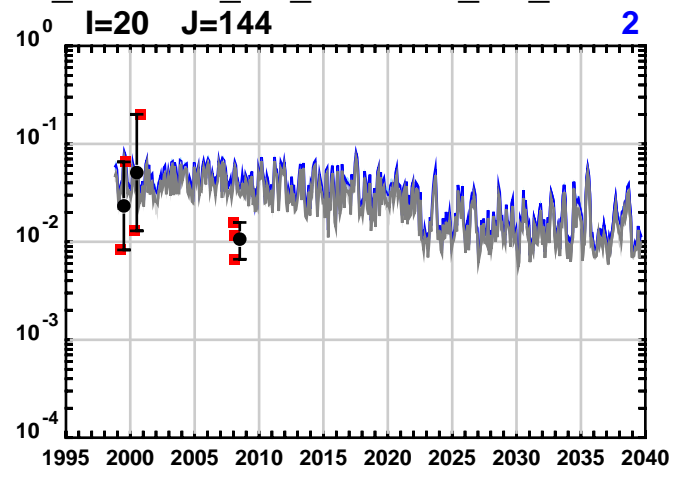
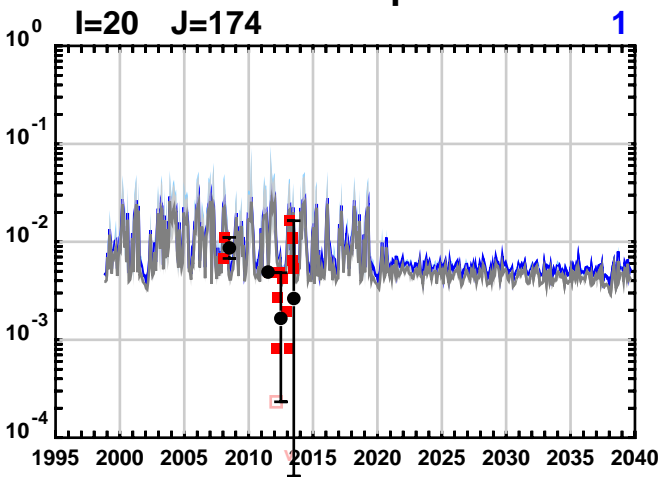
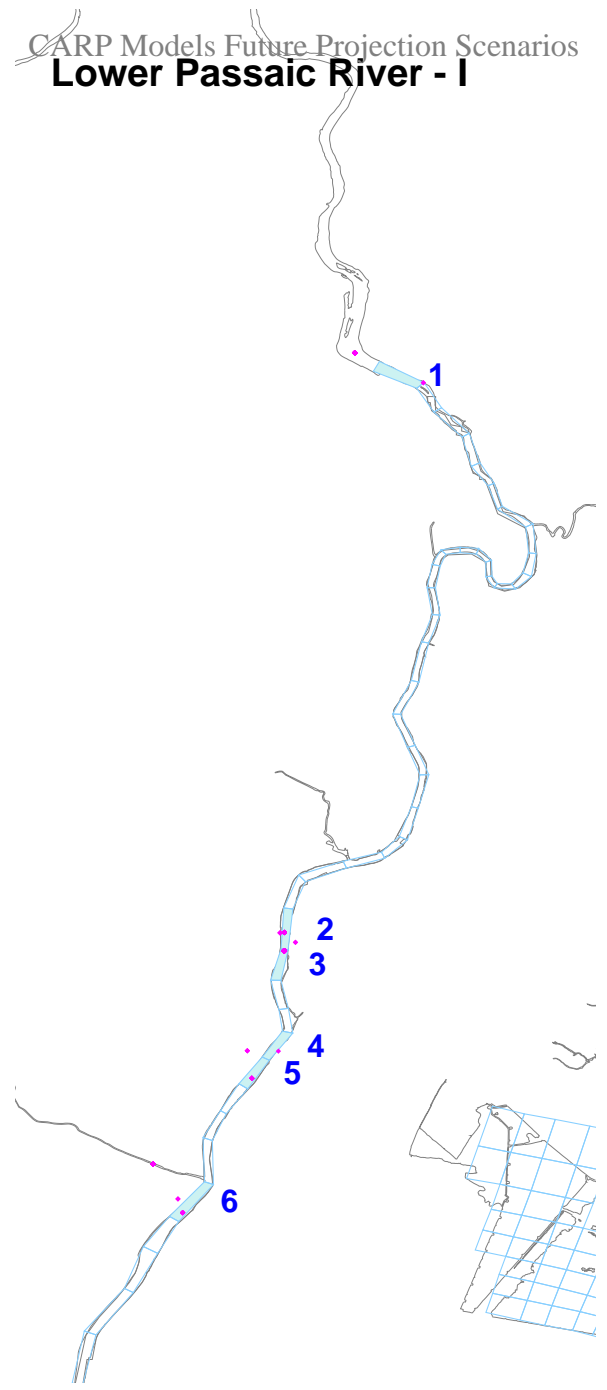


● Detect Data ● Non-Detect Data
— Model: mean and range of values in Water Column
— Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

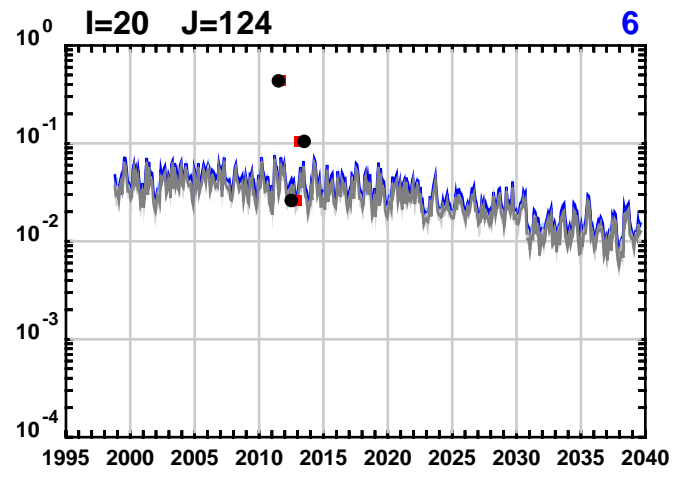
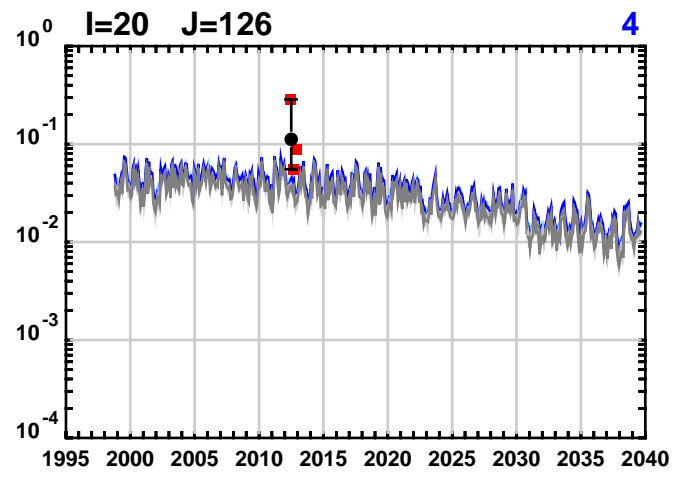
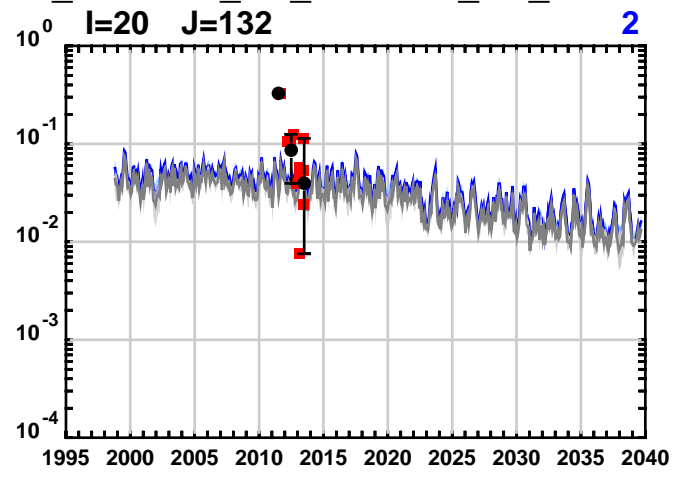
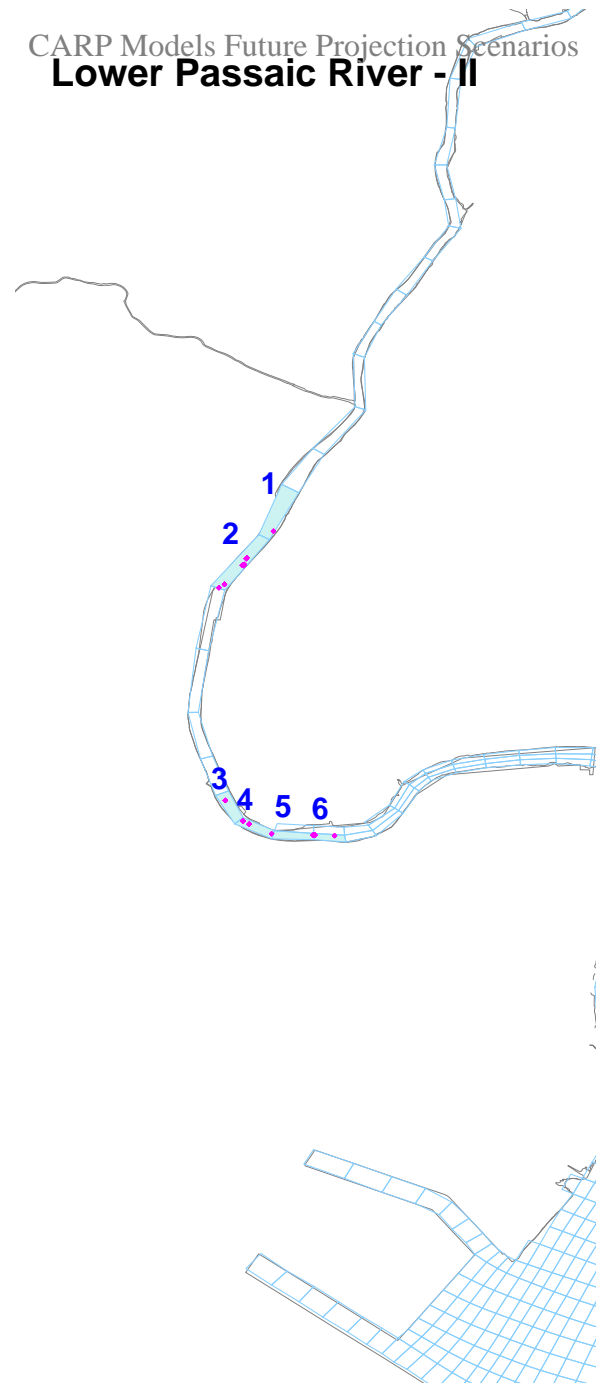
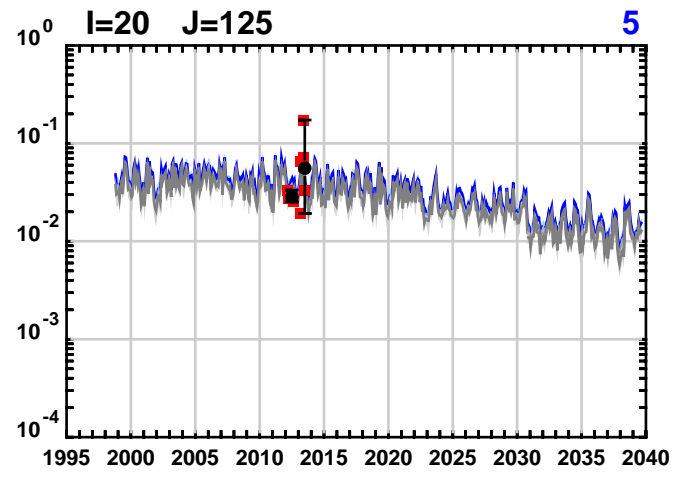
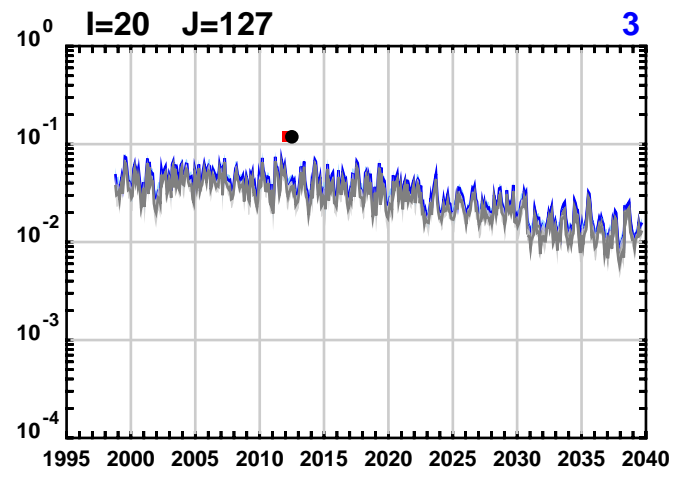
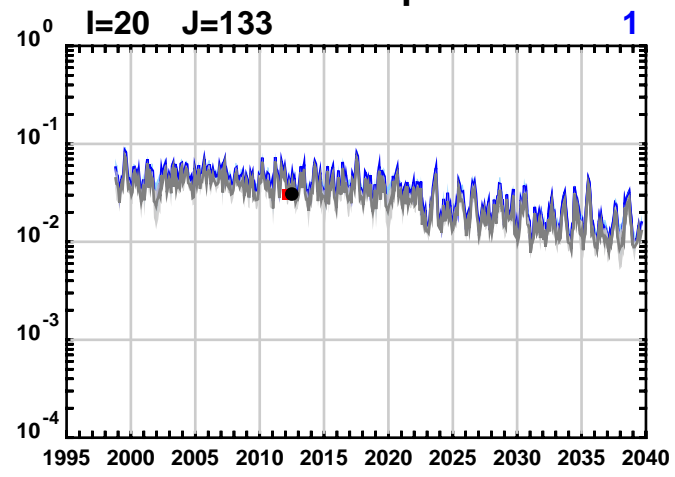
PCB, Total Congeners, ug/L



● Detect Data ■ Non-Detect Data
■ Model: mean and range of values in Water Column
● Model: Particulate Phase mean and range of values in Water Column
● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

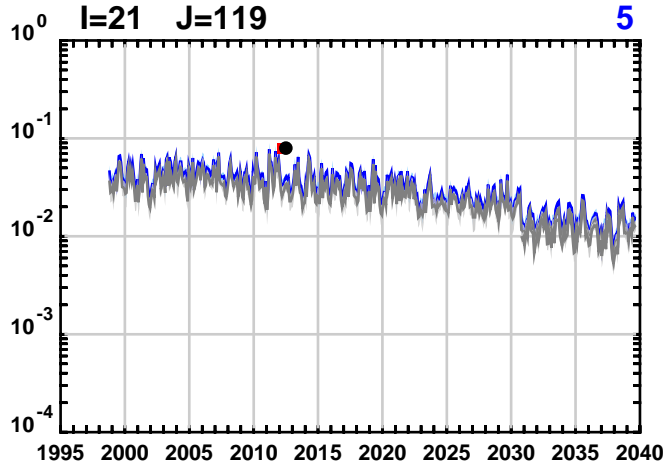
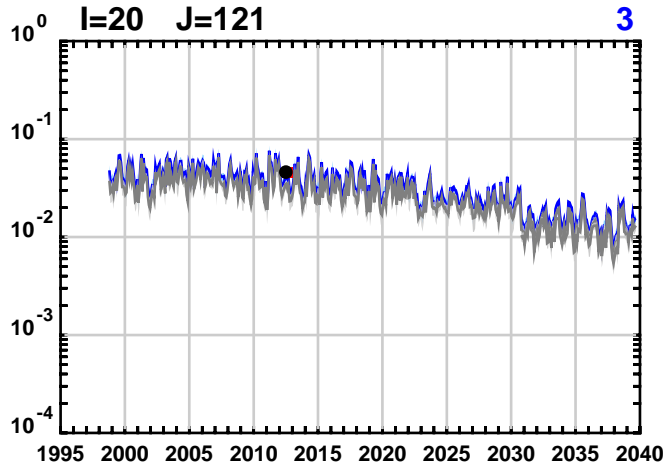
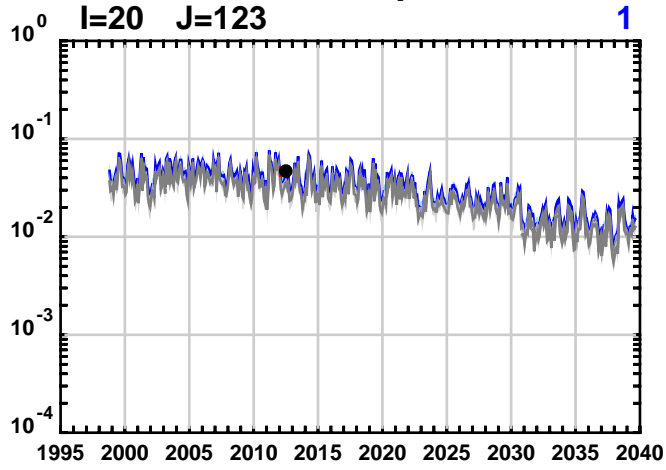
PCB, Total Congeners, ug/L



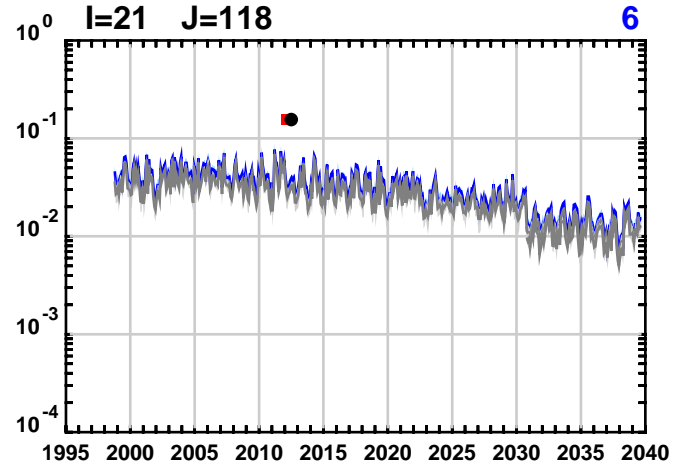
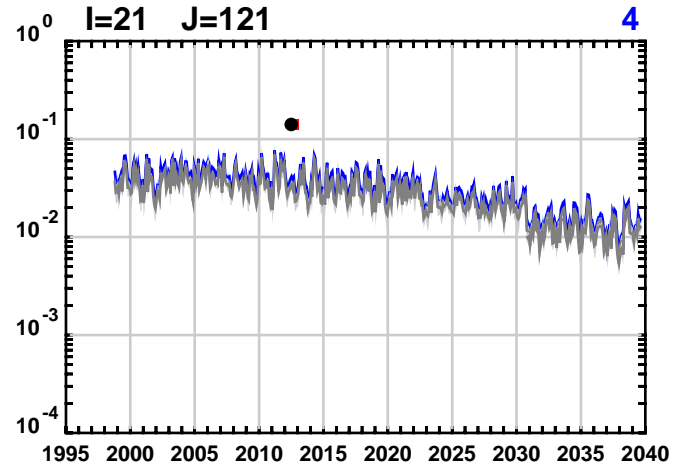
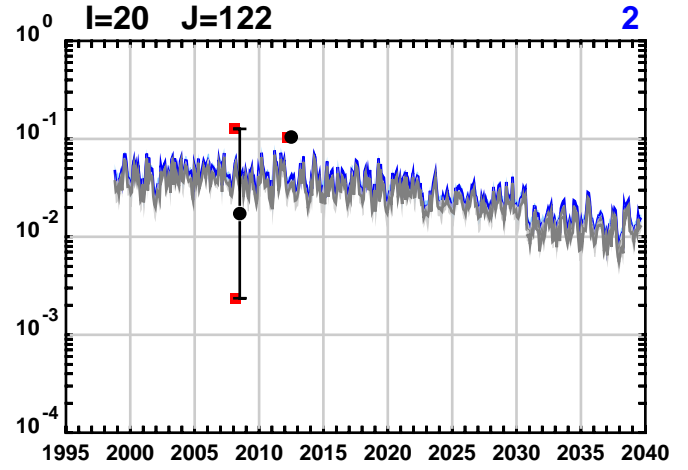
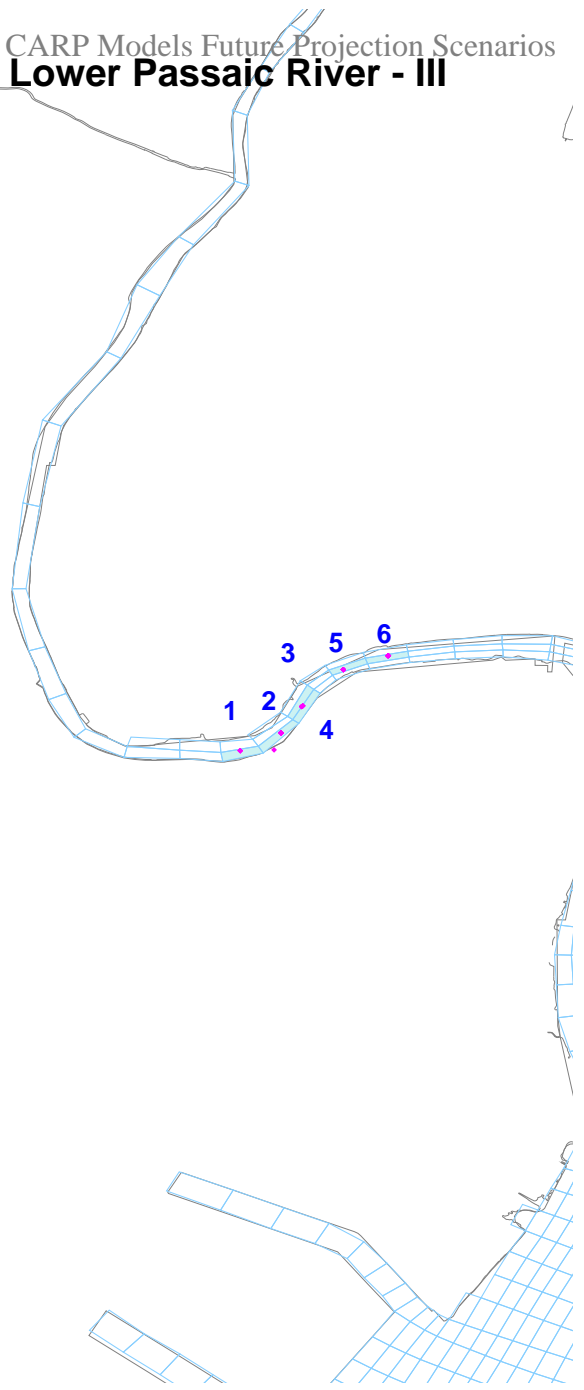
● Detect Data ● Non-Detect Data
■ Model: mean and range of values in Water Column
■ Model: Particulate Phase mean and range of values in Water Column
● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

PCB, Total Congeners, ug/L



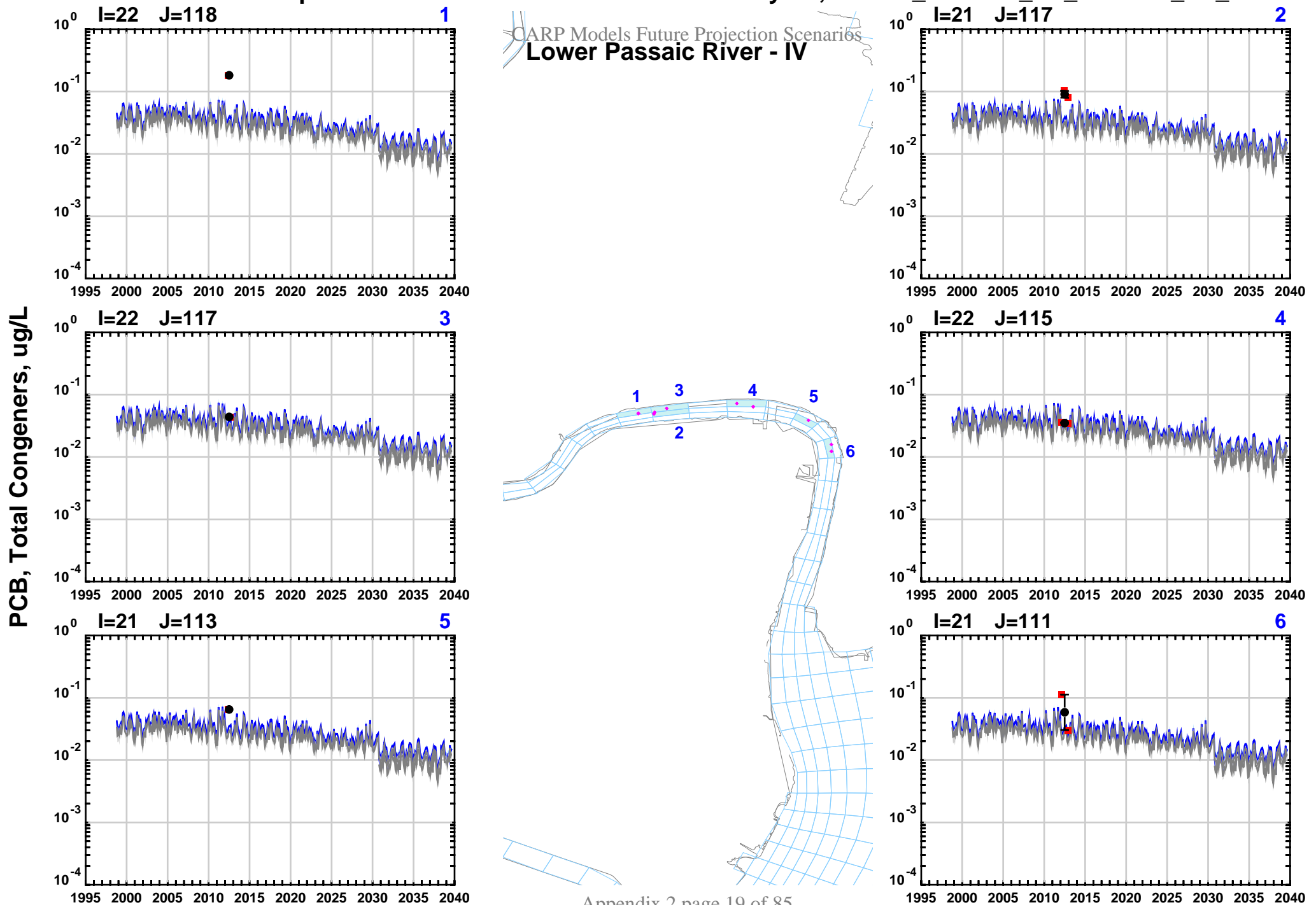
CARP Models Future Projection Scenarios
Lower Passaic River - III



● Detect Data ■ Non-Detect Data
■ Model: mean and range of values in Water Column
 Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



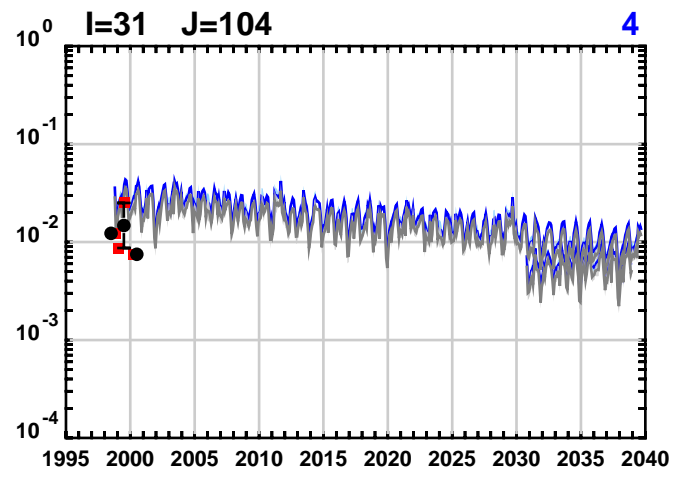
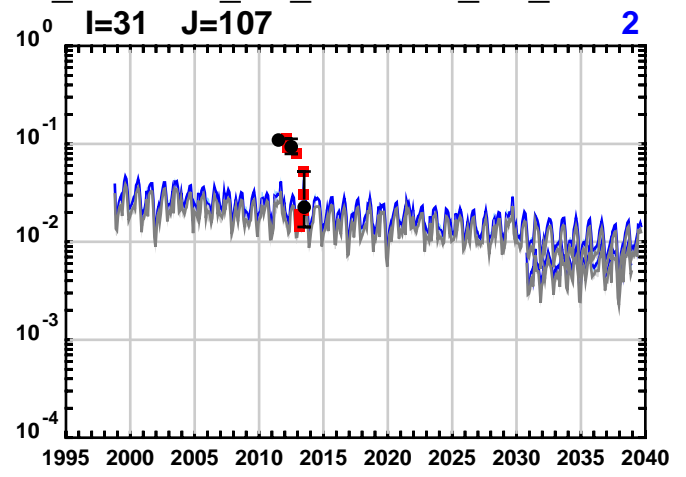
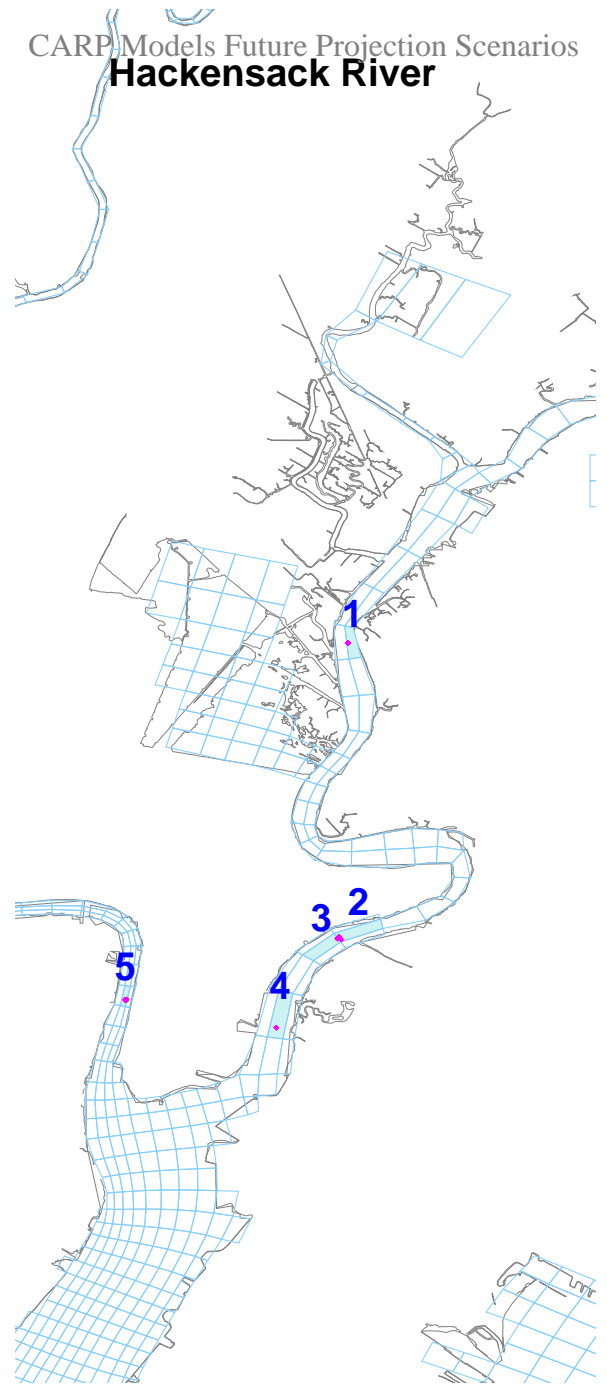
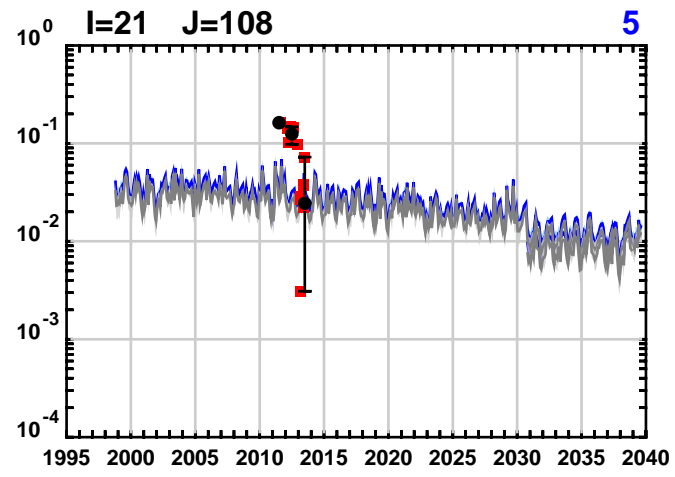
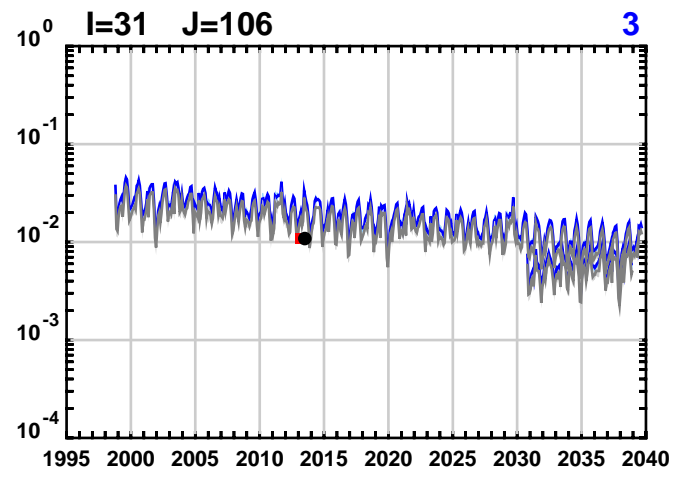
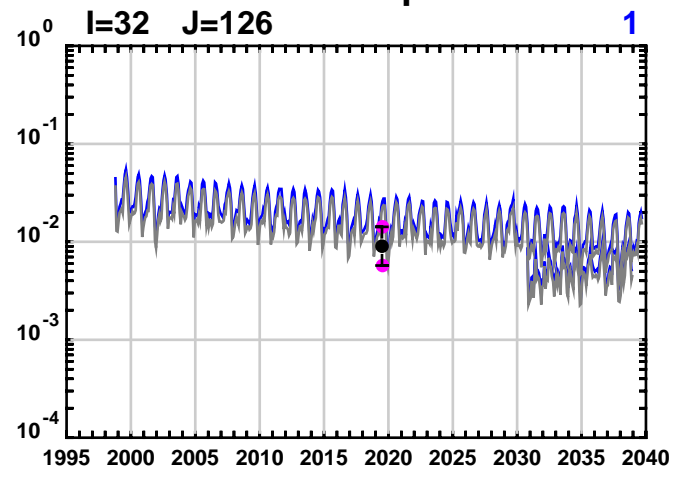
CARP Models Future Projection Scenarios
Lower Passaic River - IV

PCB, Total Congeners, ug/L

● Detect Data
 ● Non-Detect Data
■ Model: mean and range of values in Water Column
■ Model: Particulate Phase mean and range of values in Water Column
● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

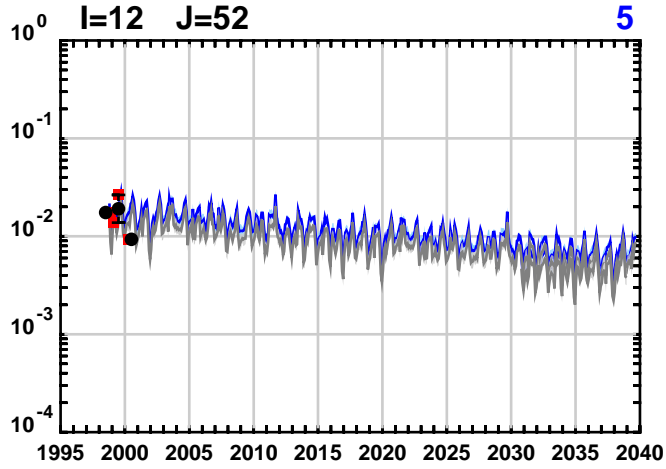
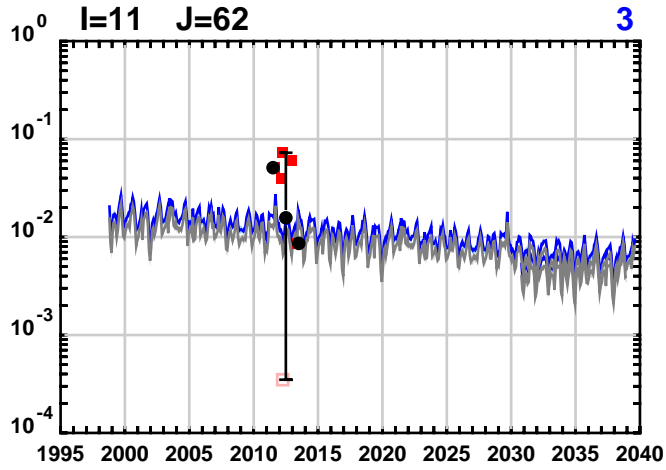
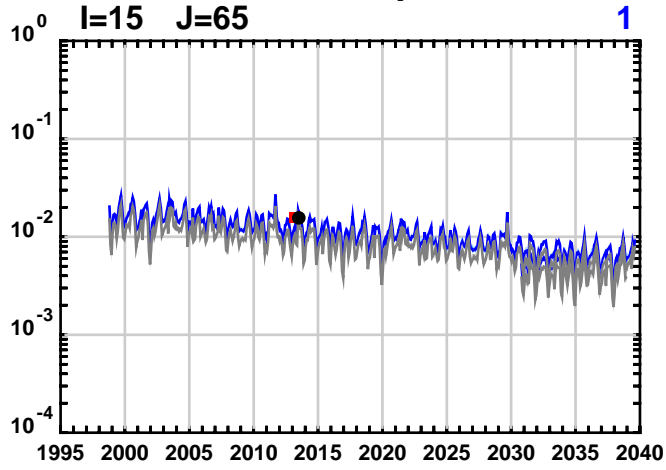
PCB, Total Congeners, ug/L



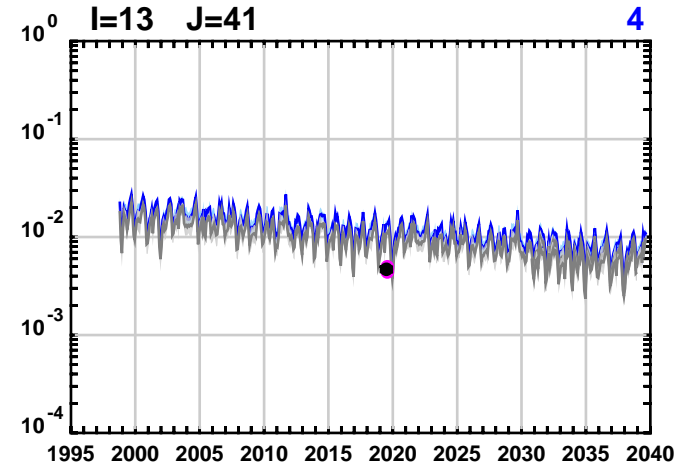
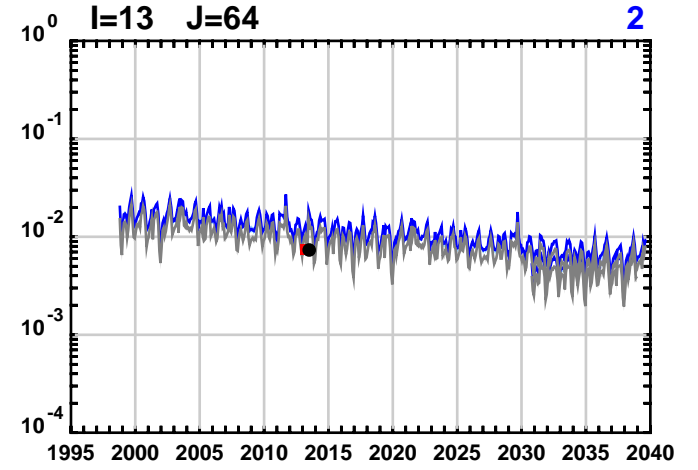
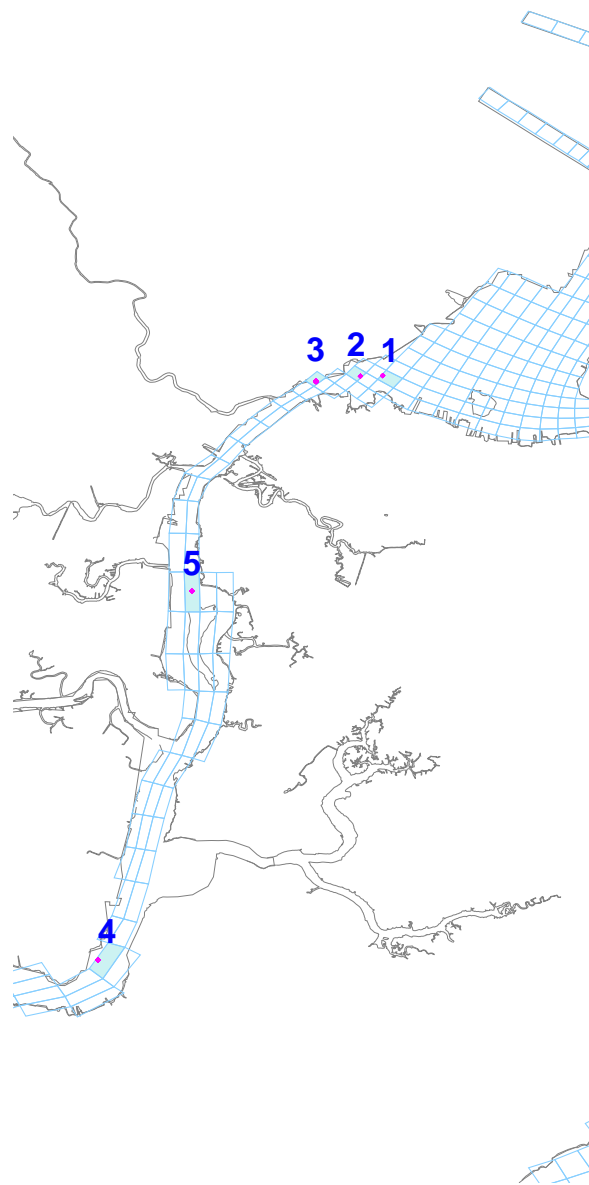
● Detect Data ● Non-Detect Data
— Model: mean and range of values in Water Column
— Model: Particulate Phase mean and range of values in Water Column
● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

PCB, Total Congeners, ug/L



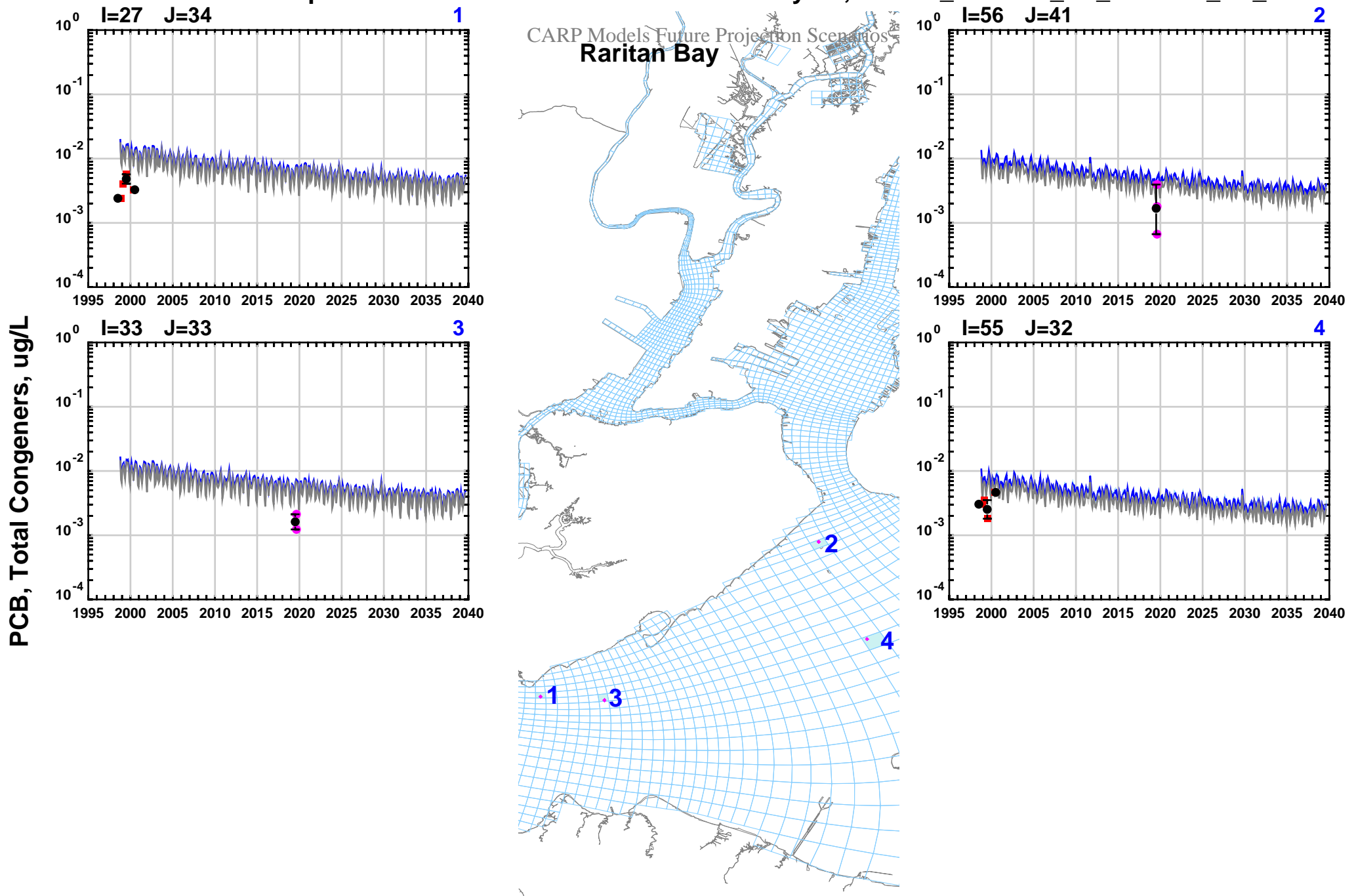
CARP Models Future Projection Scenarios Arthur Kill



● Detect Data ■ Non-Detect Data
■ Model: mean and range of values in Water Column
■ Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

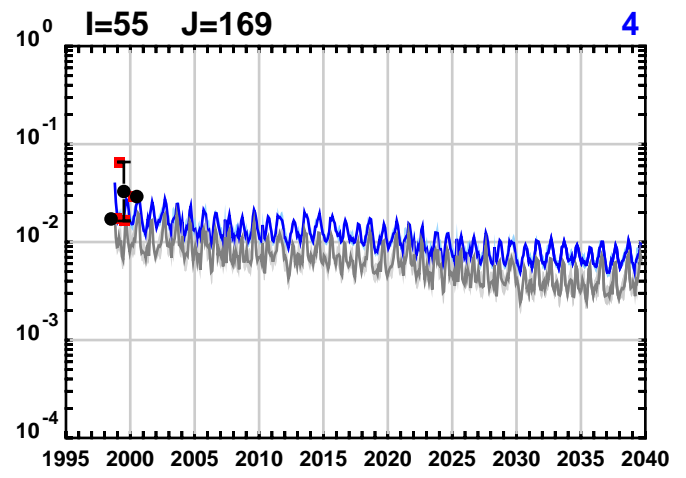
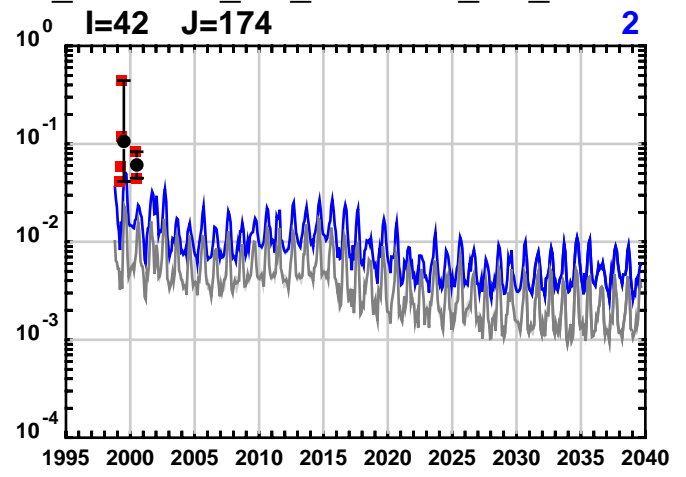
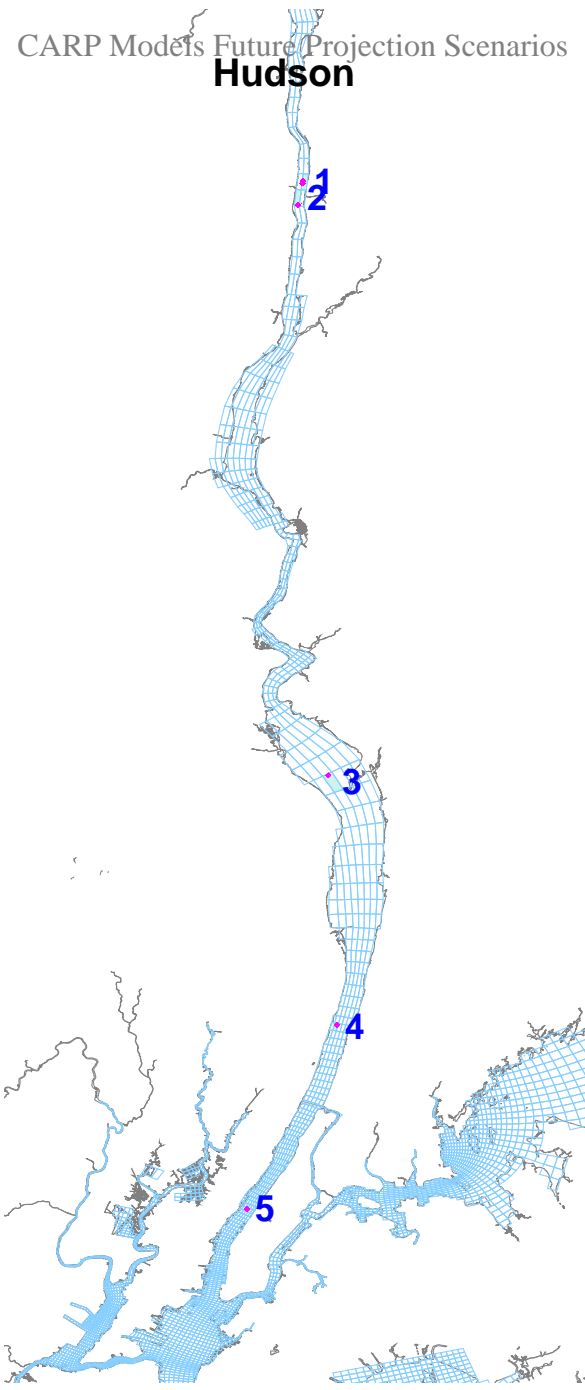
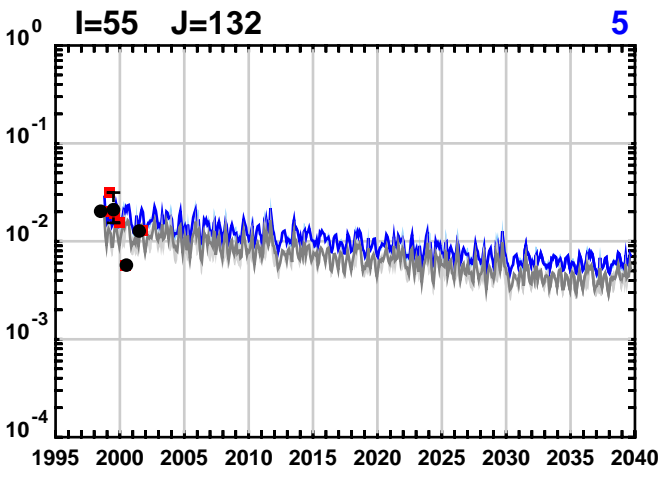
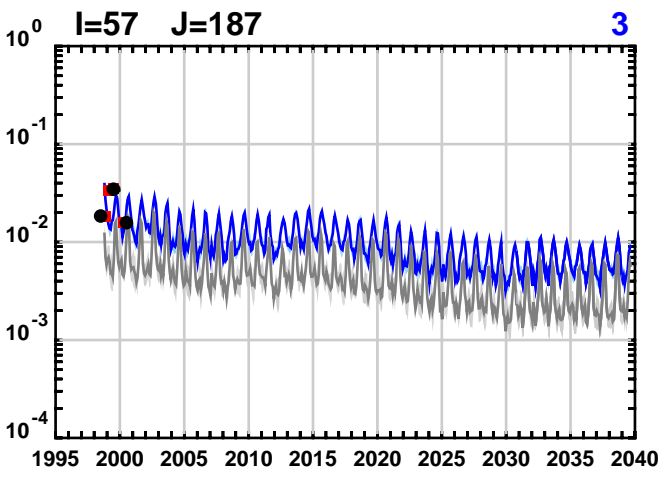
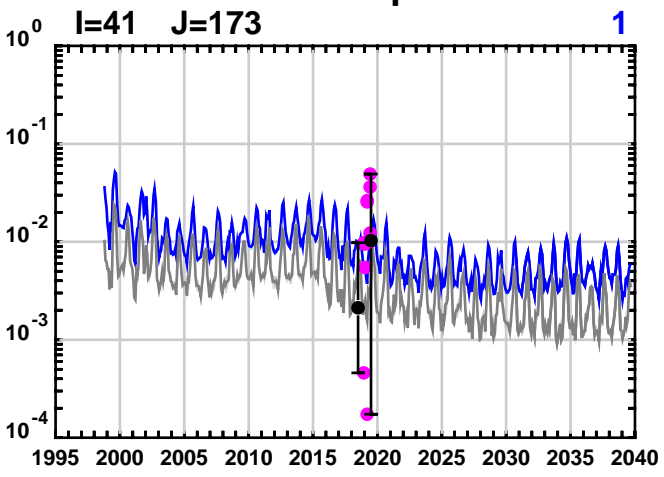


Detect Data Non-Detect Data
Model: mean and range of values in Water Column
Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range
● CARP2 Data

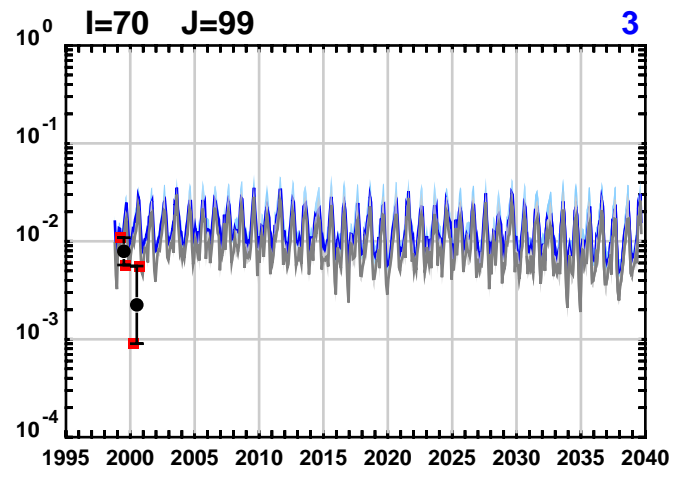
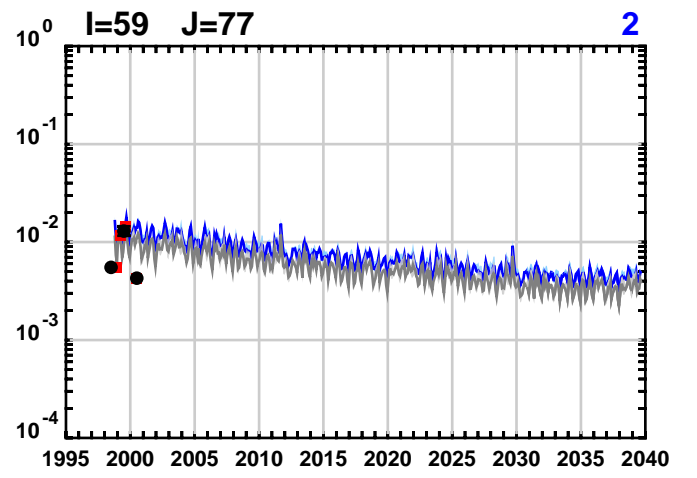
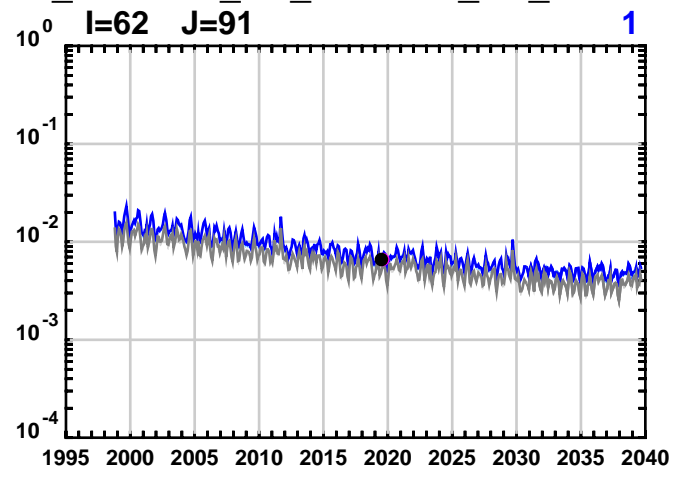
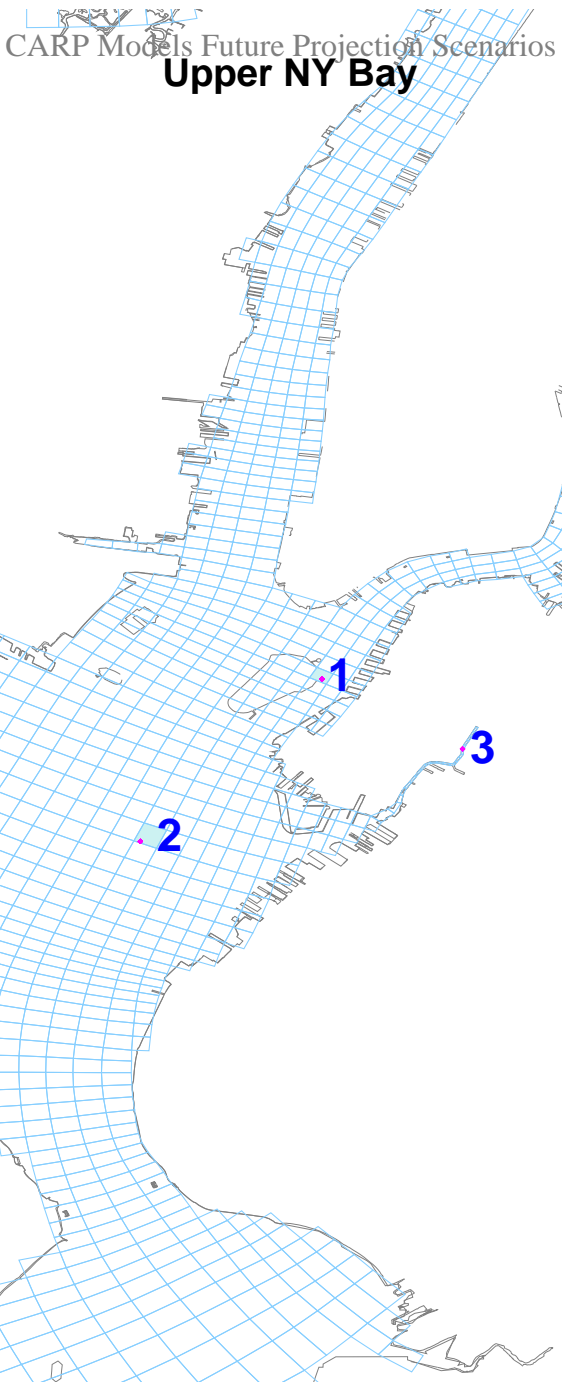
Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

PCB, Total Congeners, ug/L



● Detect Data ● Non-Detect Data
● Model: mean and range of values in Water Column
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● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



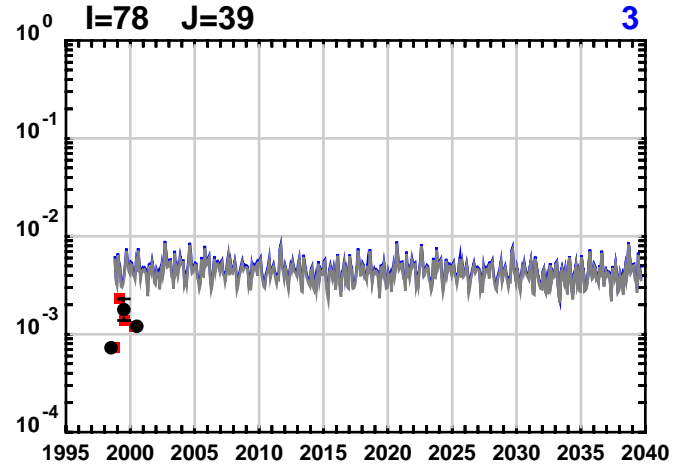
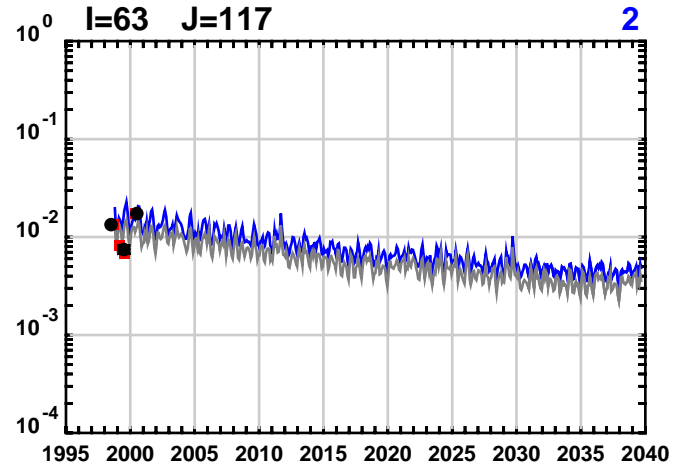
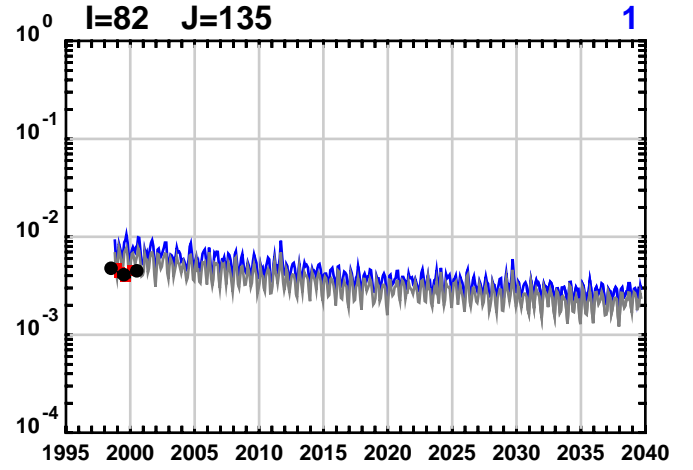
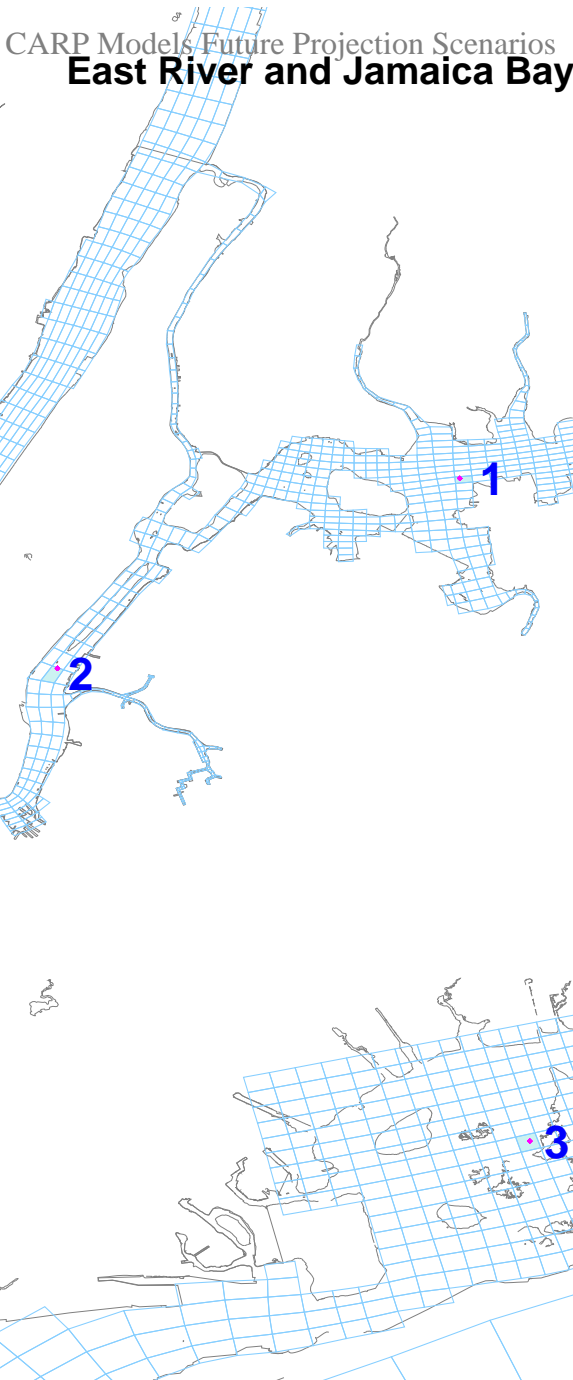
PCB, Total Congeners, ug/L

Detect Data **Non-Detect Data**
Model: mean and range of values in Water Column
 Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range
 ● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

PCB, Total Congeners, ug/L

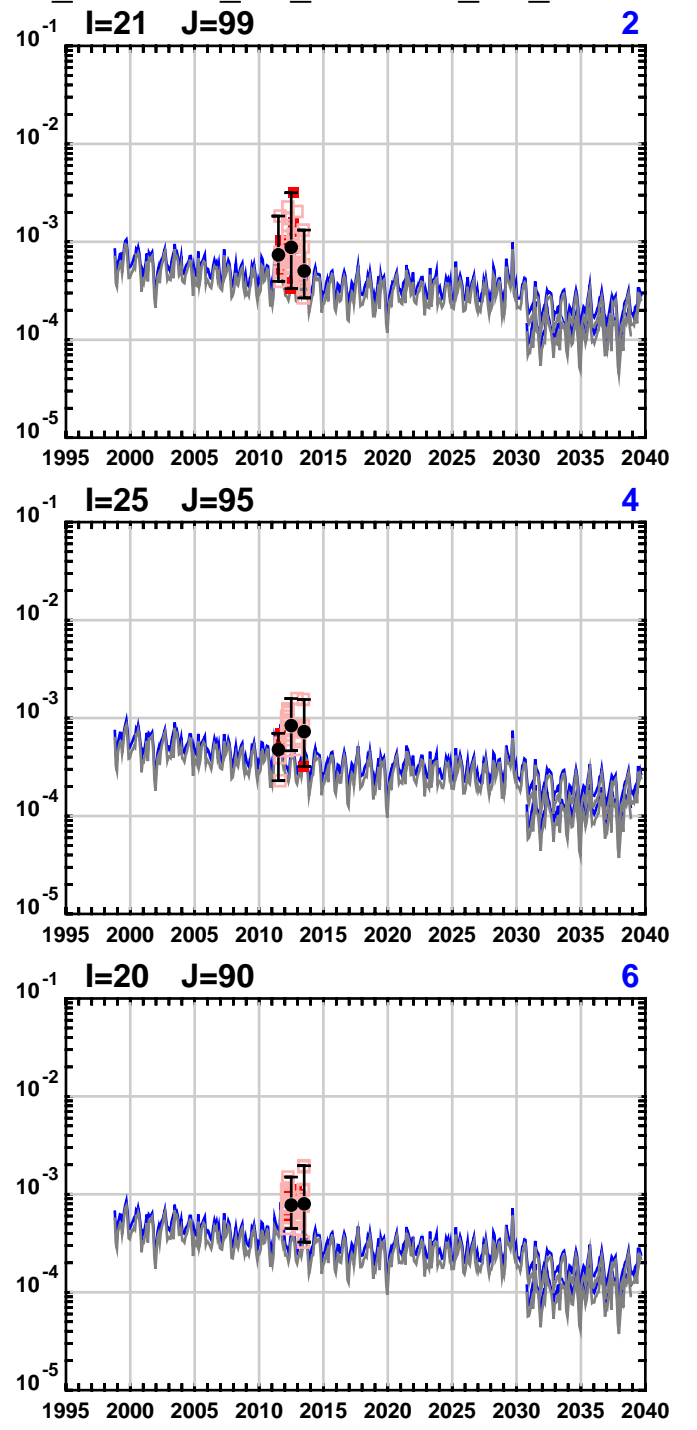
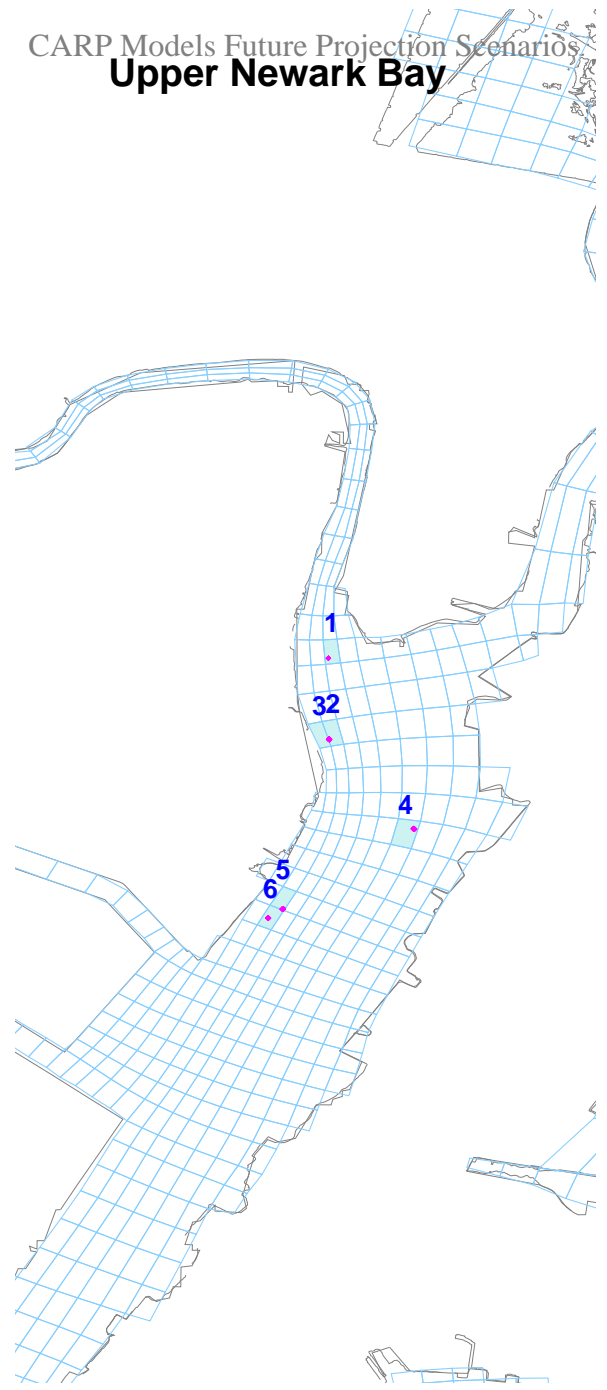
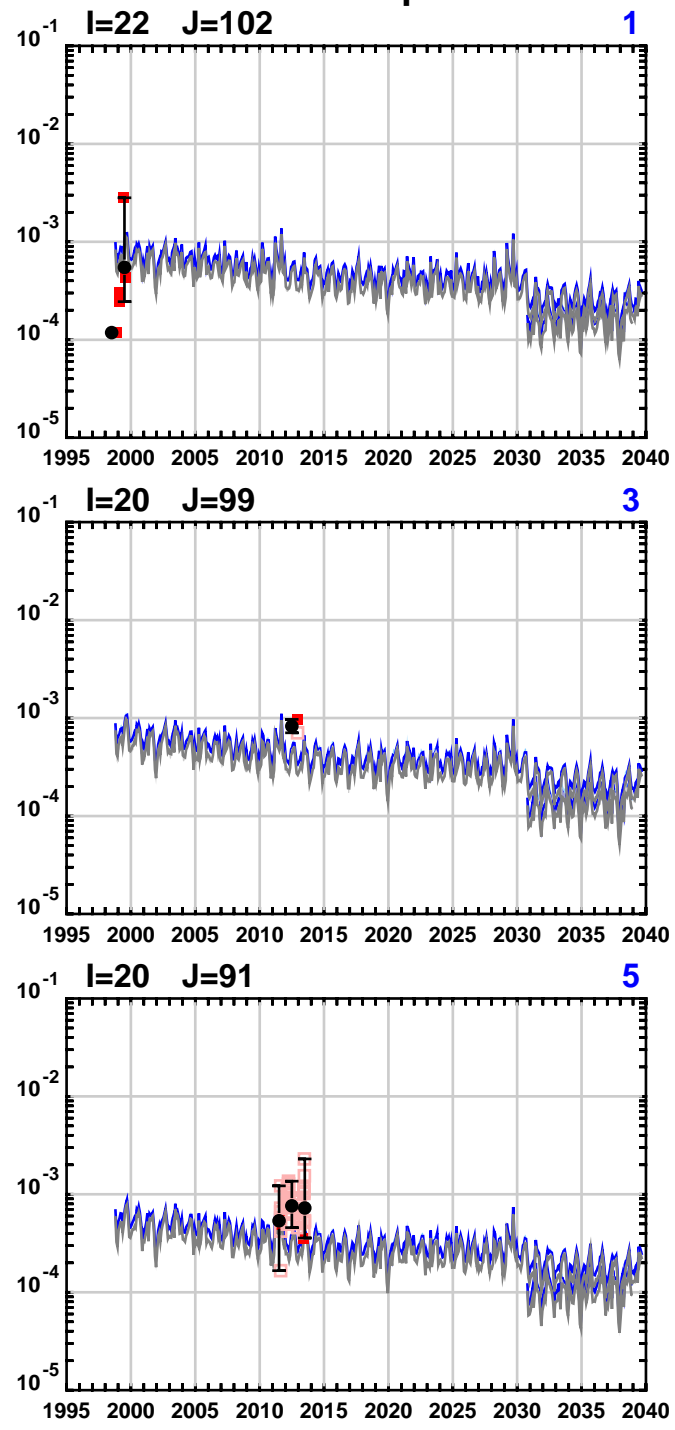


Detect Data **Non-Detect Data**
Model: mean and range of values in Water Column
 Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range
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Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

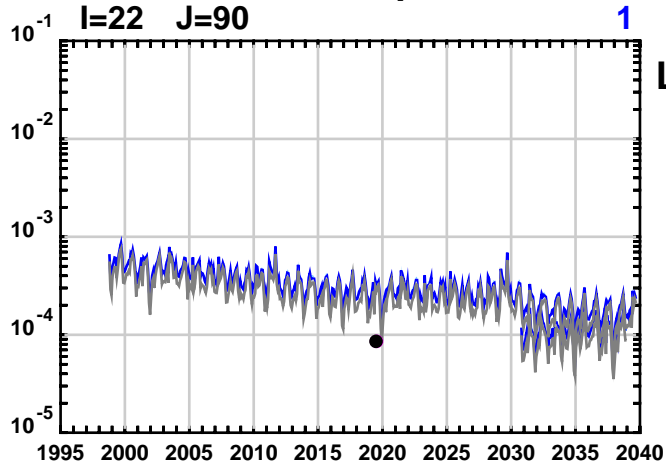
2,3,4,7,8-Pentachlorodibenzofuran, ng/L



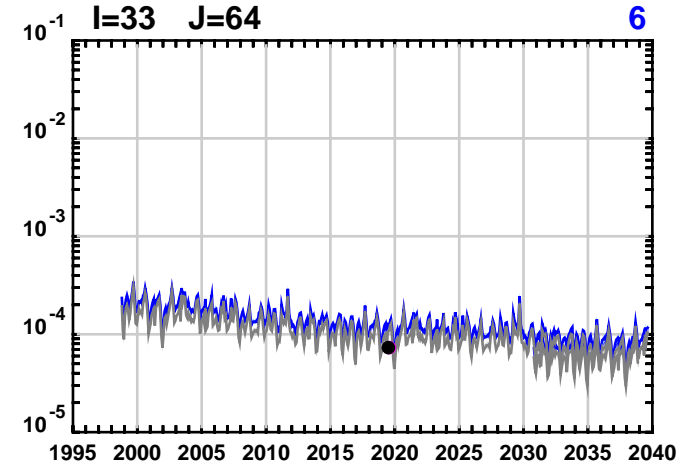
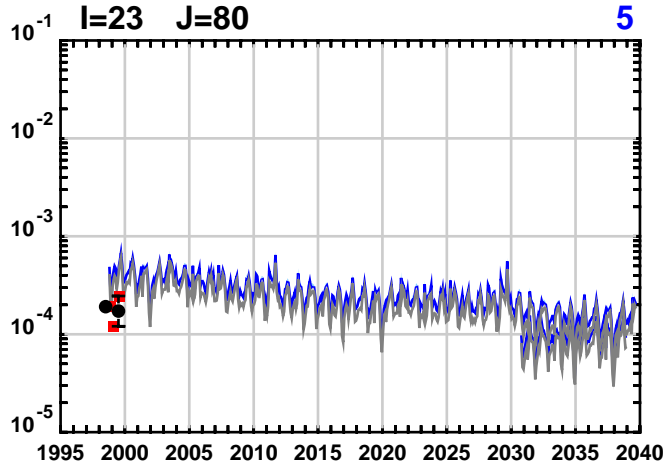
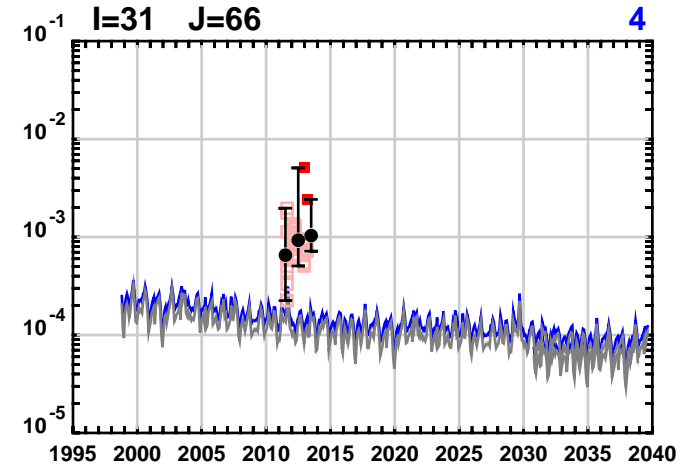
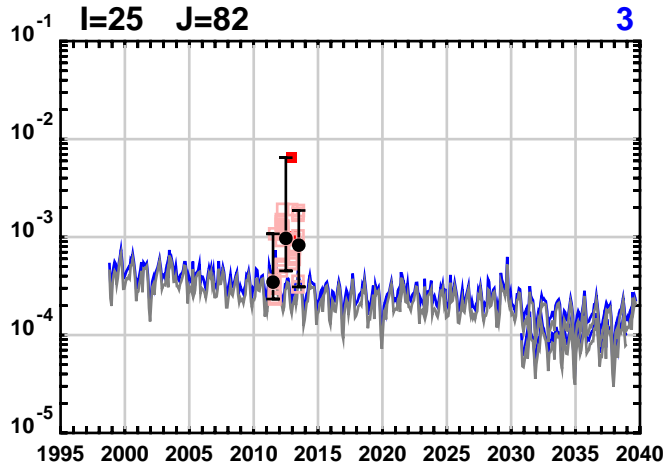
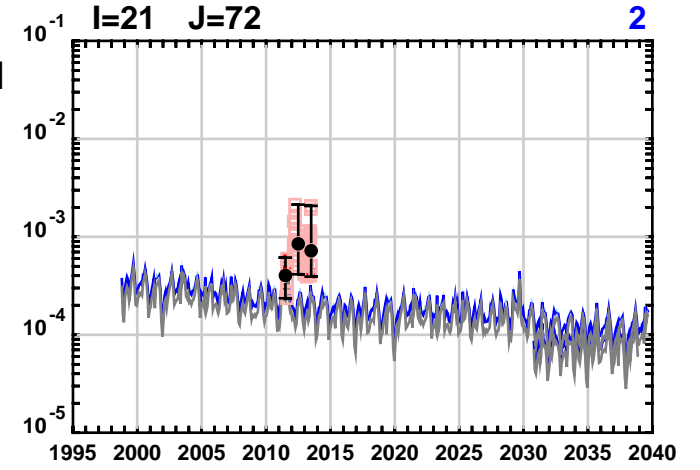
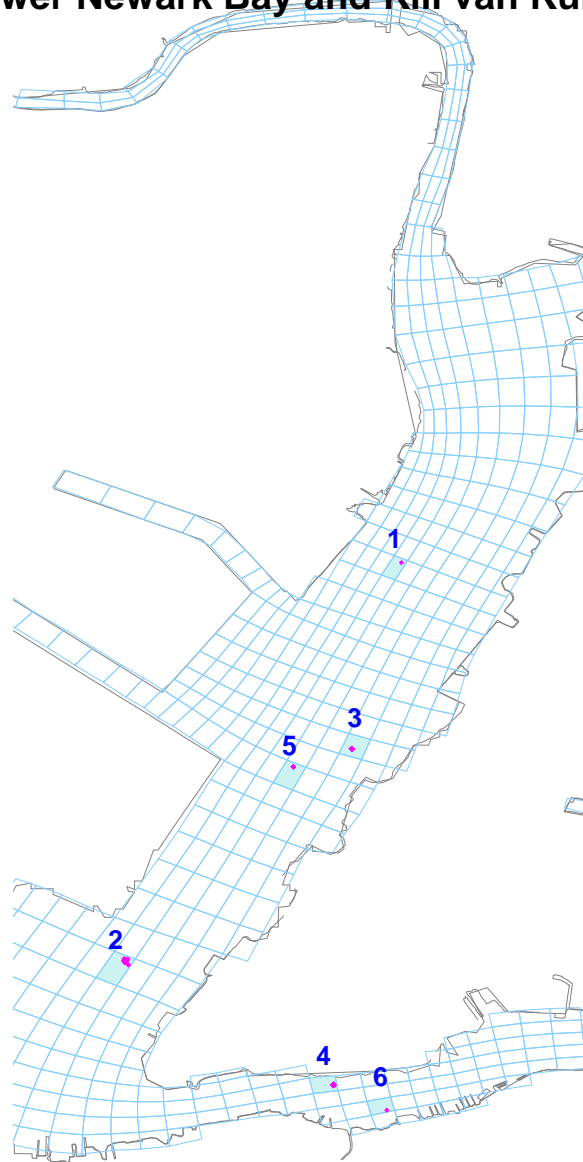
● Detect Data ■ Non-Detect Data
— Model: mean and range of values in Water Column
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Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

2,3,4,7,8-Pentachlorodibenzofuran, ng/L



CARP Models Future Projection Scenarios
Lower Newark Bay and Kill van Kull



Detect Data

Non-Detect Data

Model: mean and range of values in Water Column

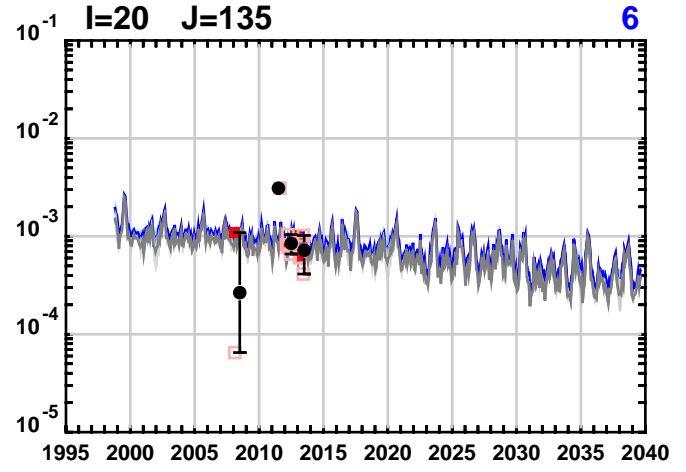
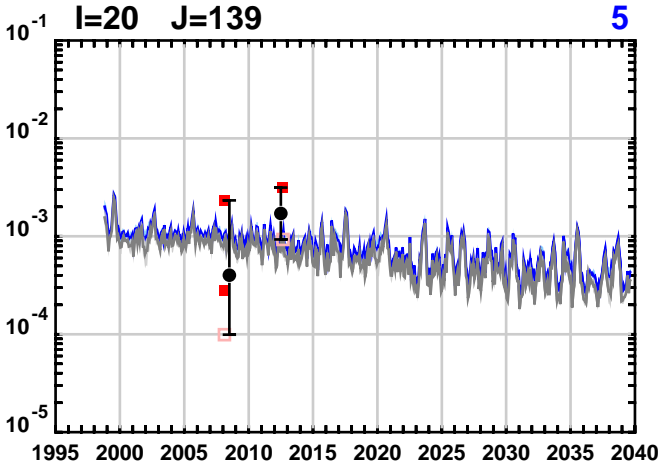
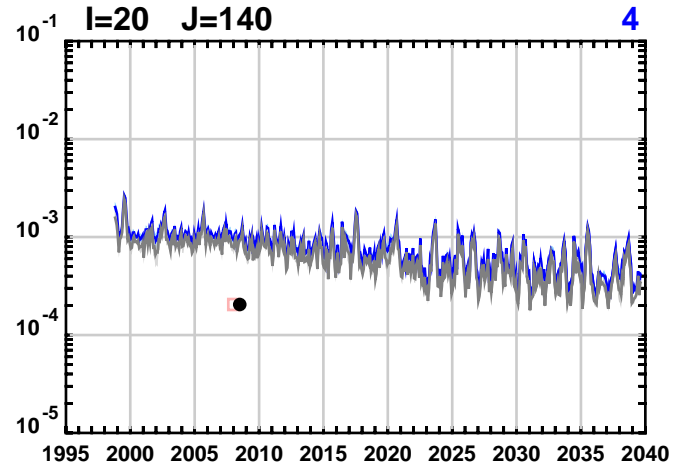
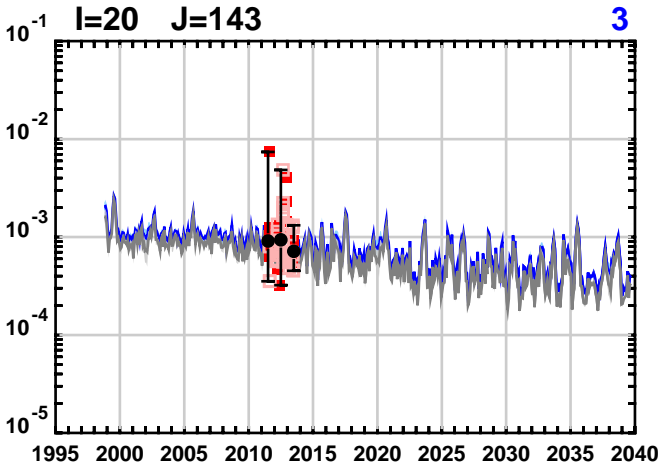
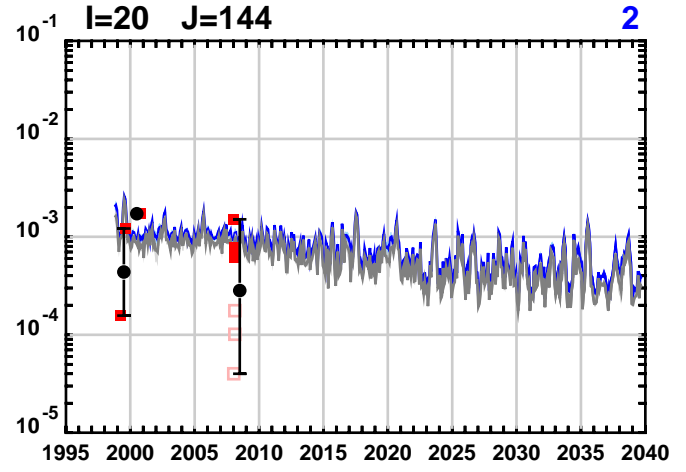
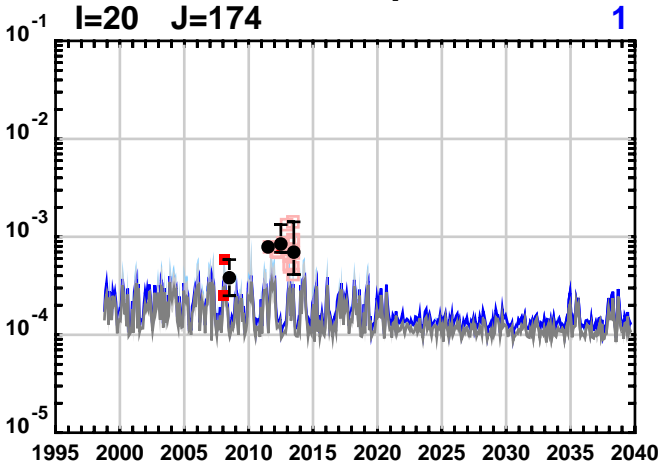
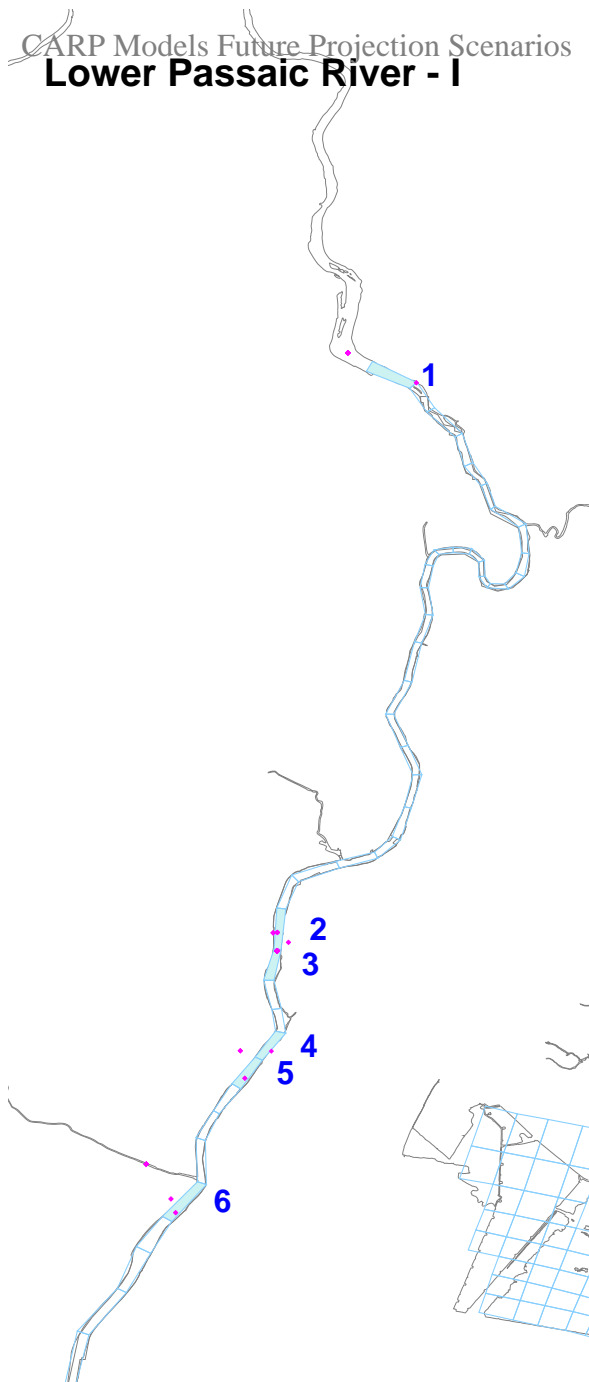
Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range

● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

2,3,4,7,8-Pentachlorodibenzofuran, ng/L

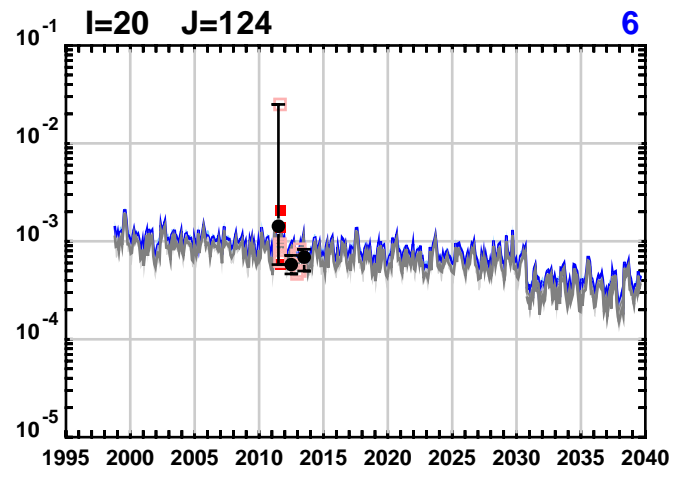
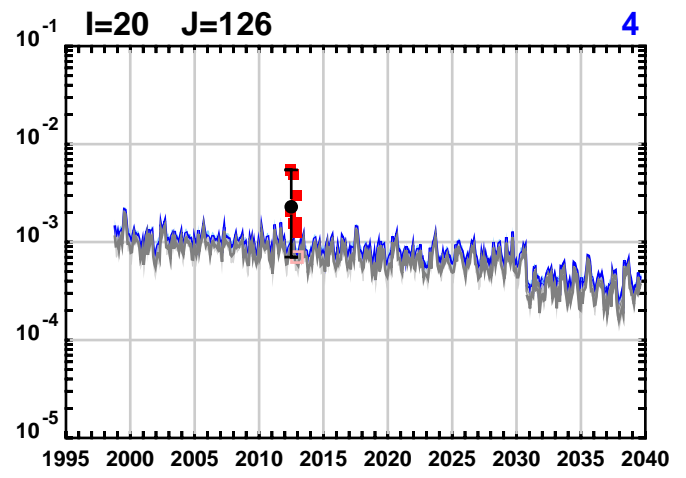
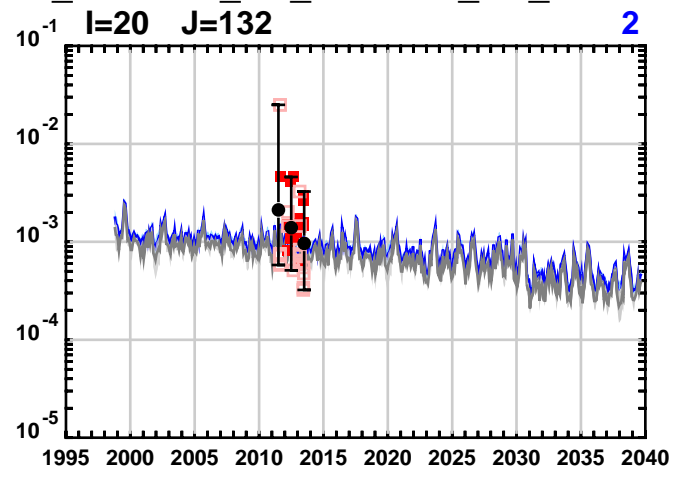
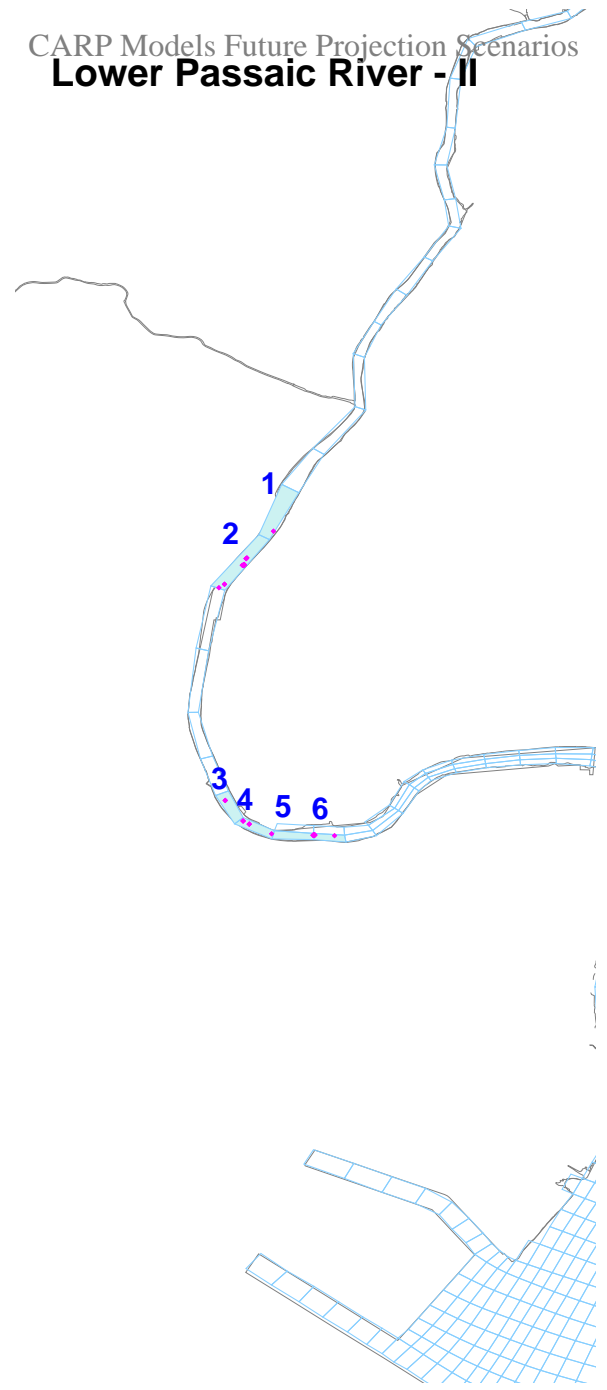
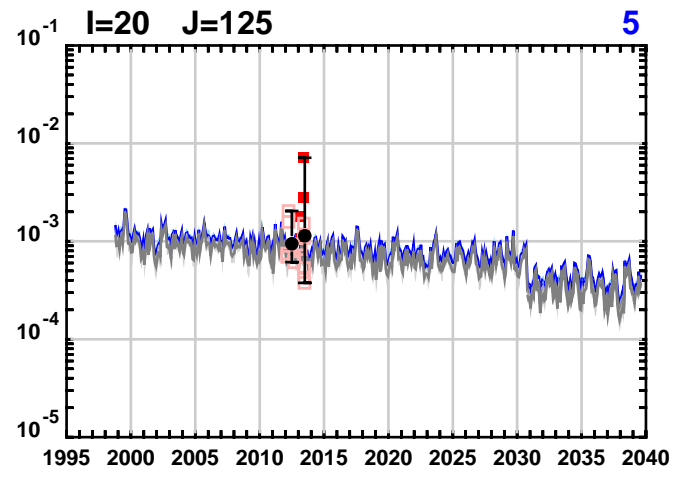
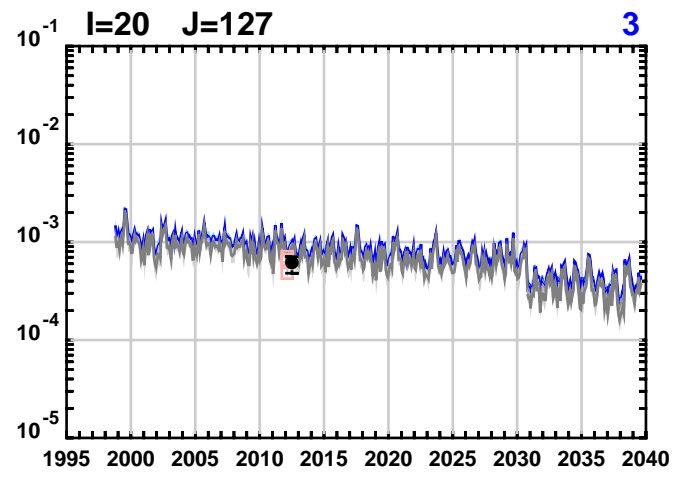
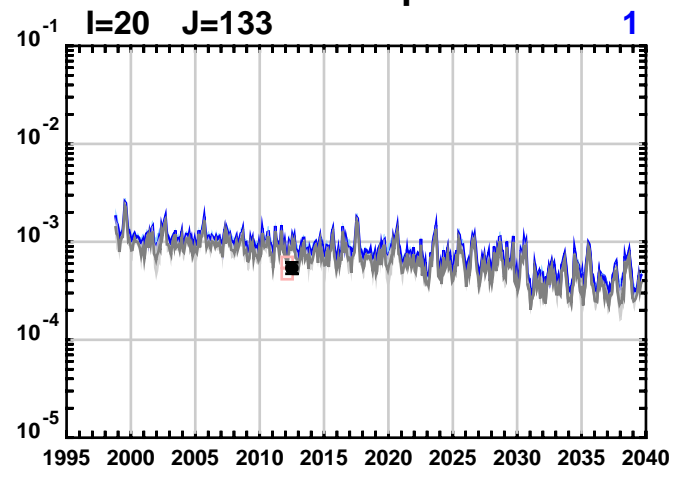


● Detect Data ■ Non-Detect Data
■ Model: mean and range of values in Water Column
■ Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

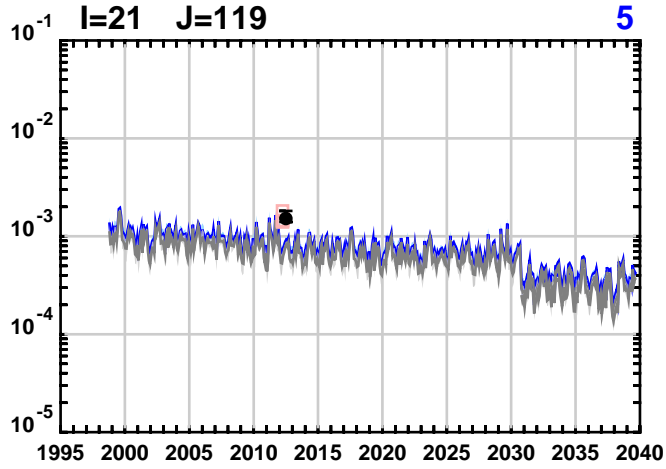
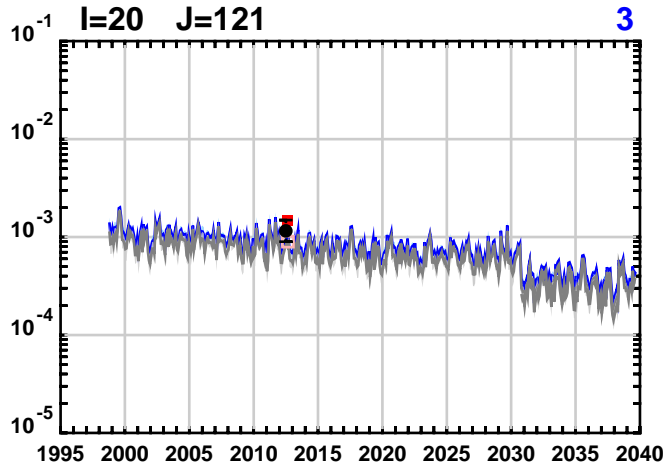
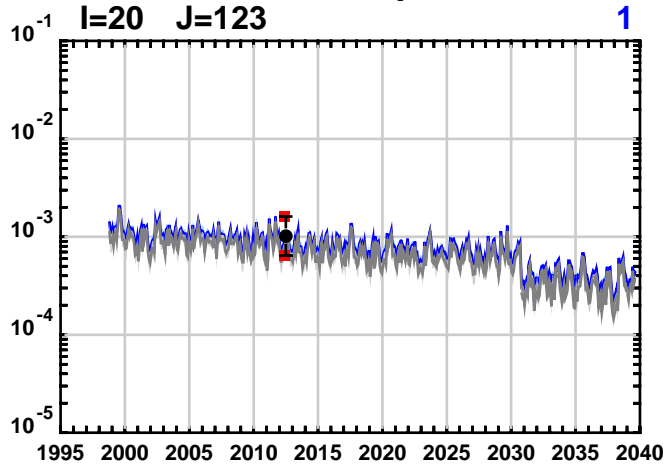
2,3,4,7,8-Pentachlorodibenzofuran, ng/L



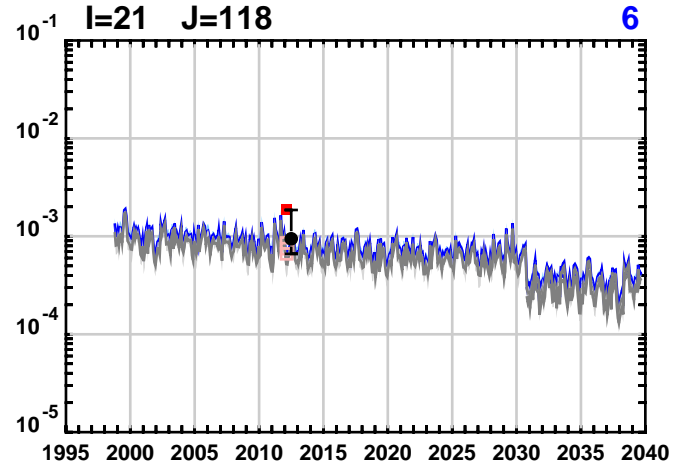
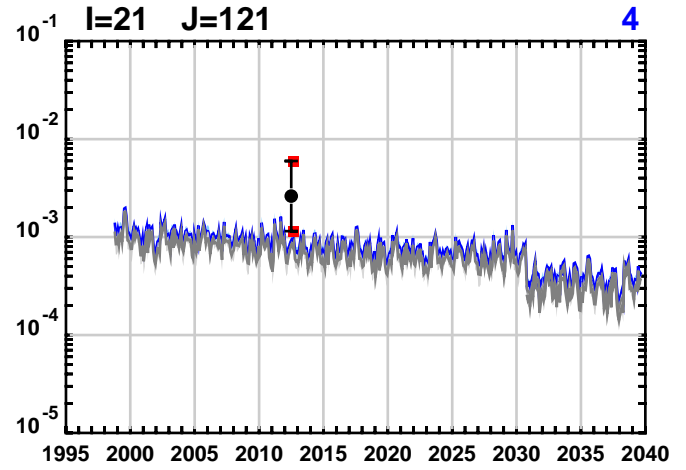
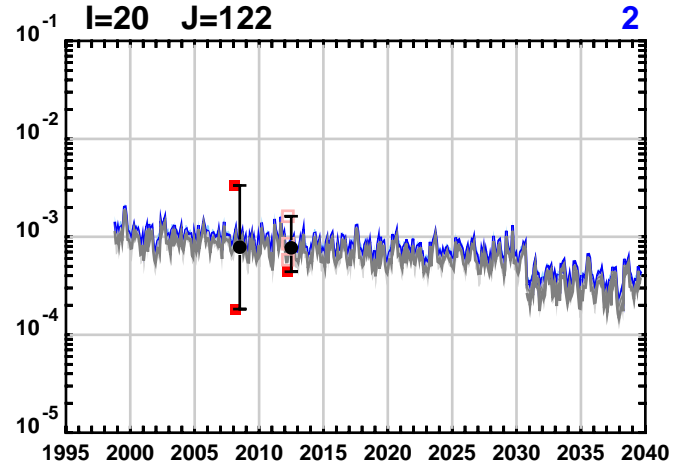
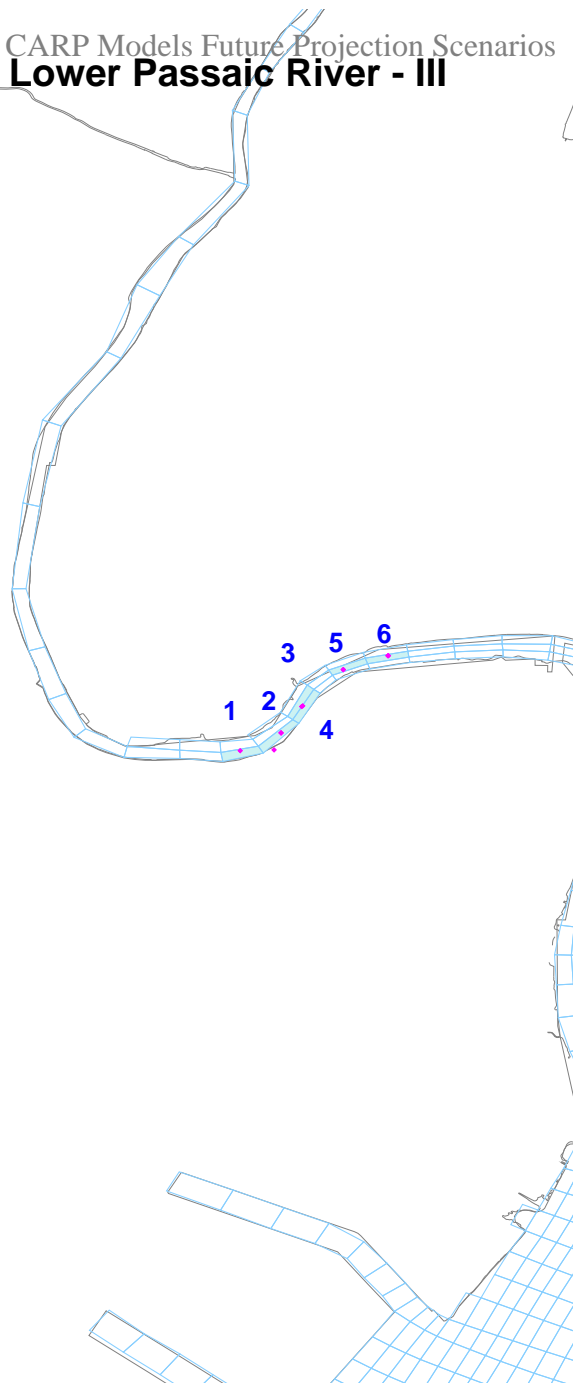
● Detect Data
 ■ Non-Detect Data
 — Model: mean and range of values in Water Column
 ● Water Column Data: yearly mean and range
— Model: Particulate Phase mean and range of values in Water Column
 ● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

2,3,4,7,8-Pentachlorodibenzofuran, ng/L



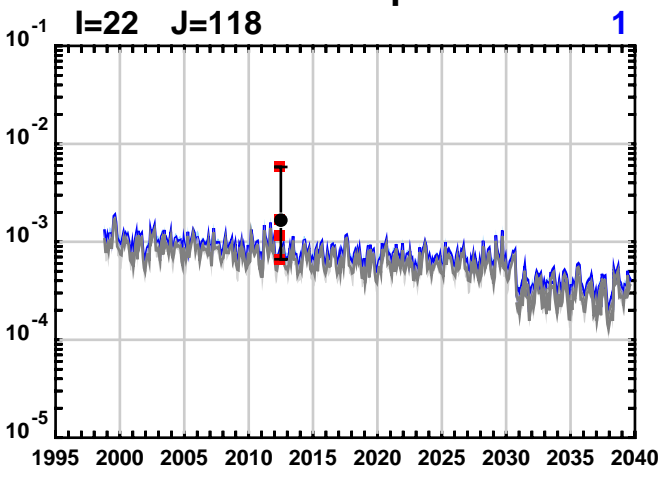
CARP Models Future Projection Scenarios Lower Passaic River - III



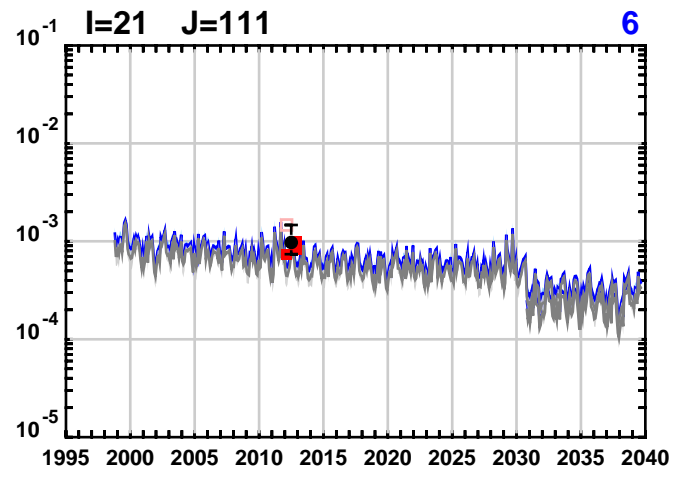
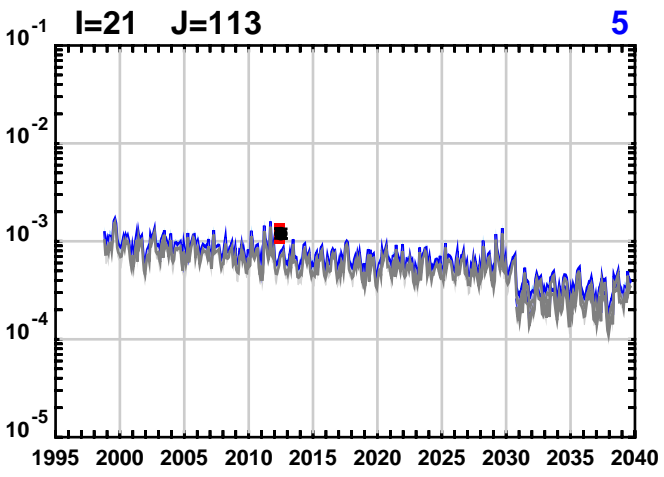
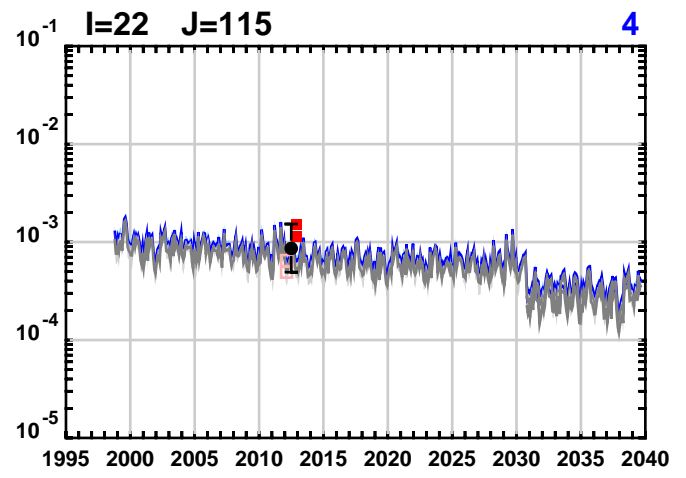
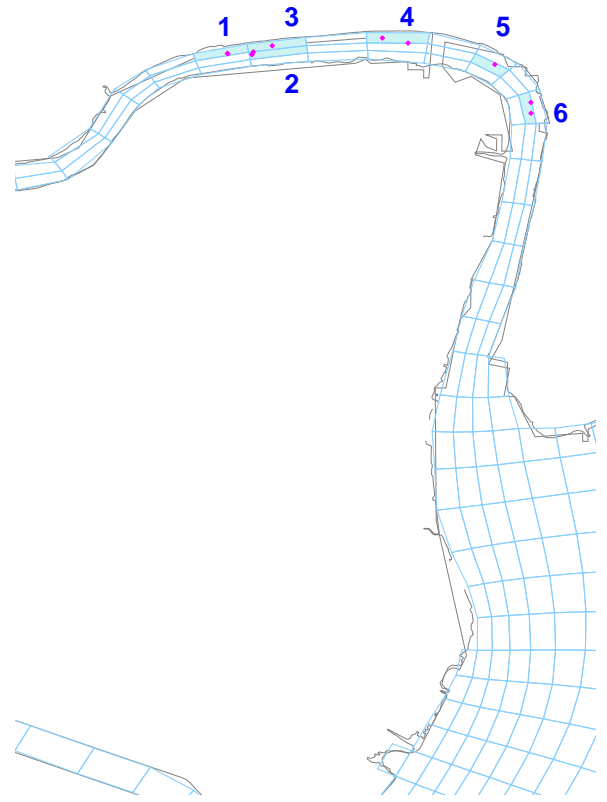
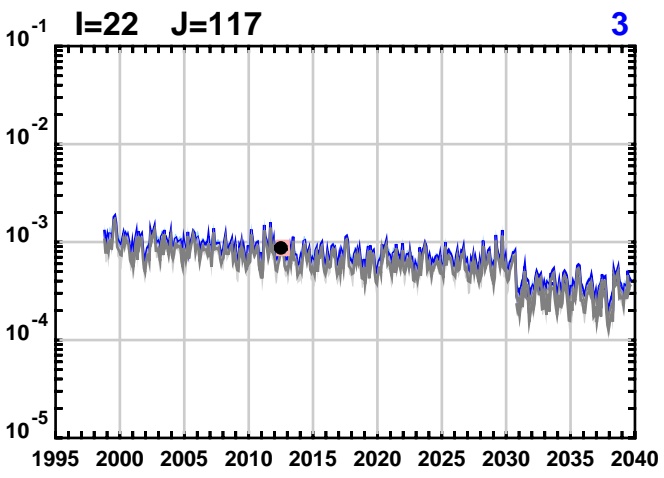
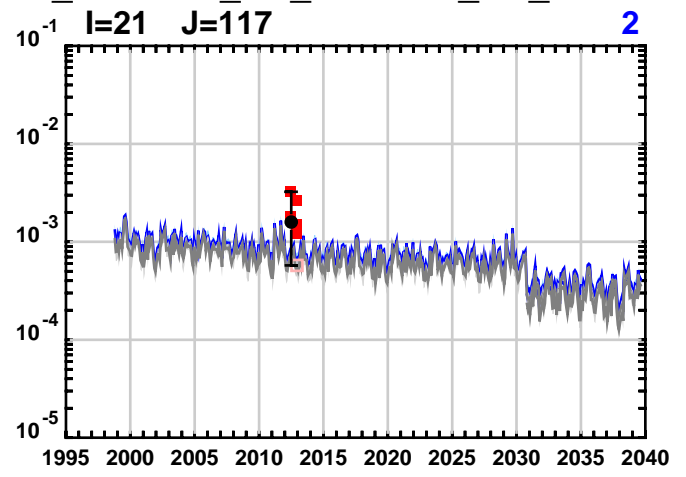
● Detect Data ● Non-Detect Data
● Model: mean and range of values in Water Column
● Model: Particulate Phase mean and range of values in Water Column
● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

2,3,4,7,8-Pentachlorodibenzofuran, ng/L



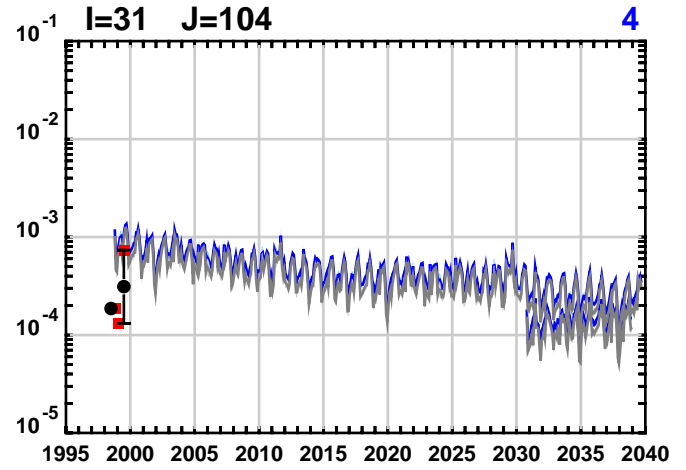
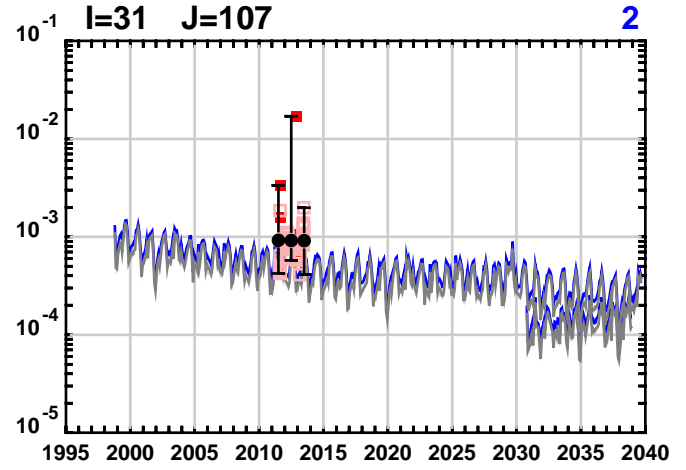
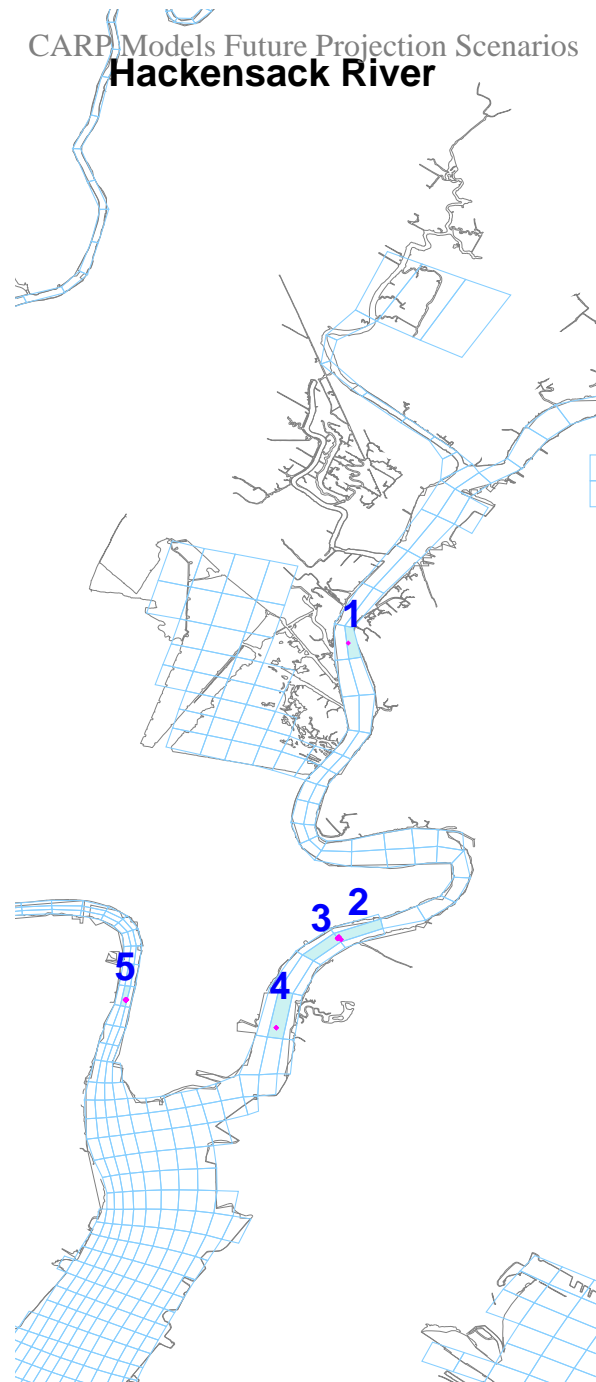
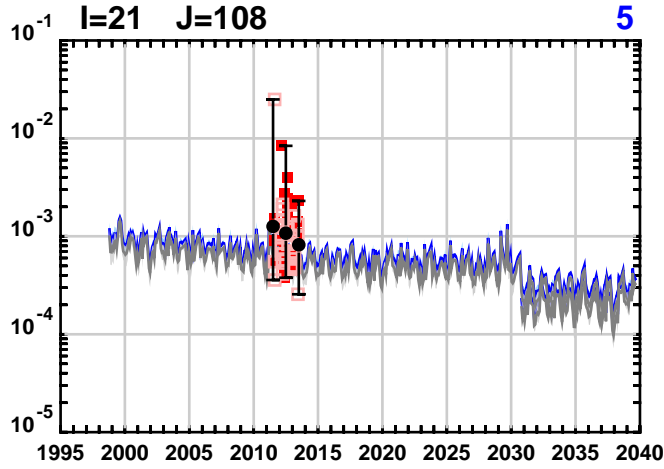
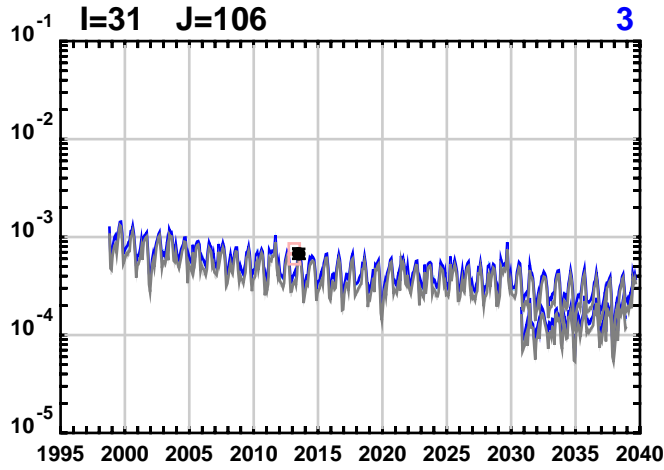
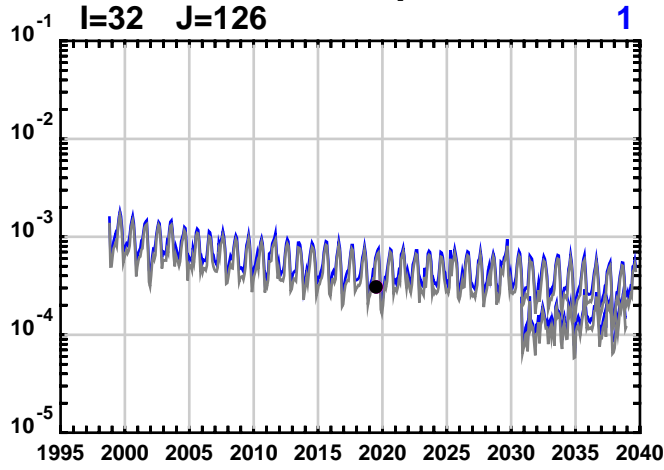
CARP Models Future Projection Scenarios
Lower Passaic River - IV



● Detect Data ■ Non-Detect Data
■ Model: mean and range of values in Water Column
■ Model: Particulate Phase mean and range of values in Water Column
● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

2,3,4,7,8-Pentachlorodibenzofuran, ng/L

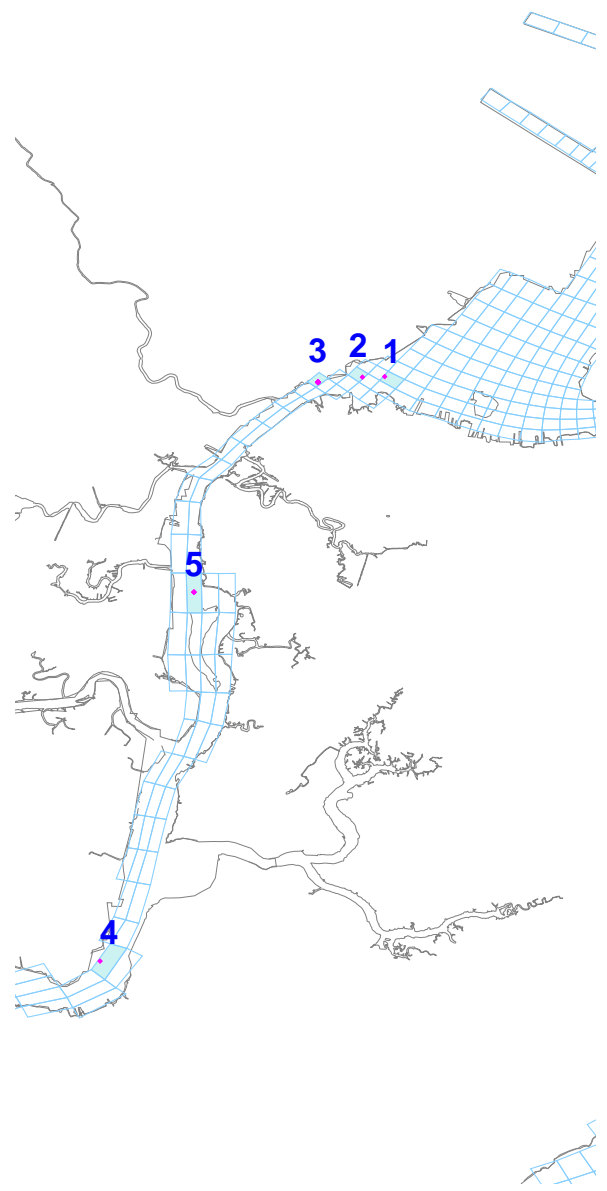
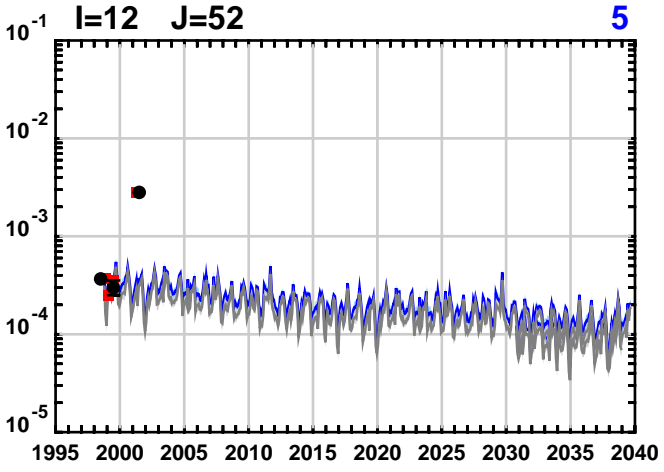
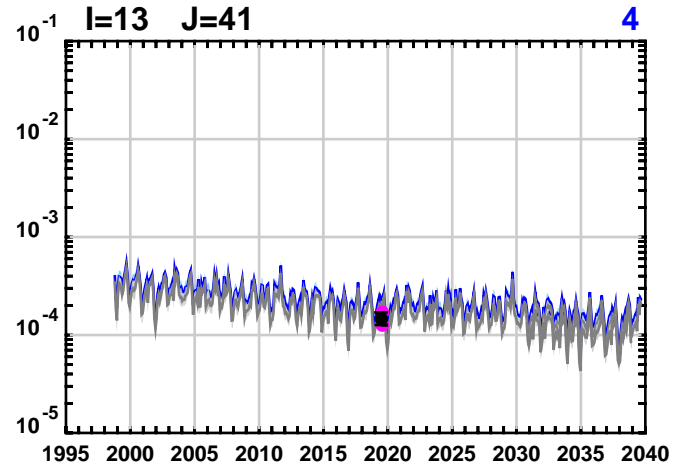
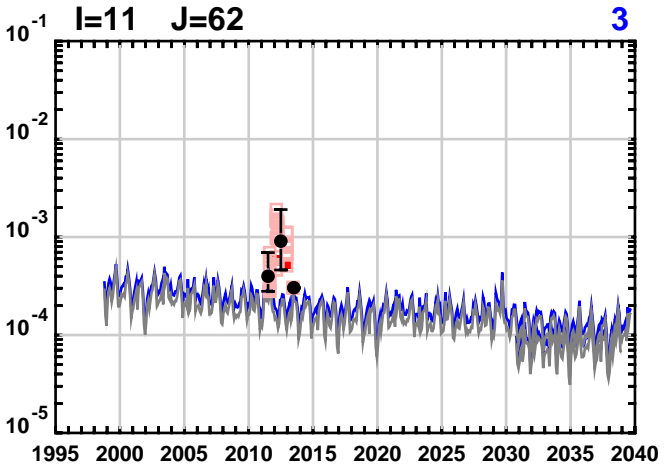
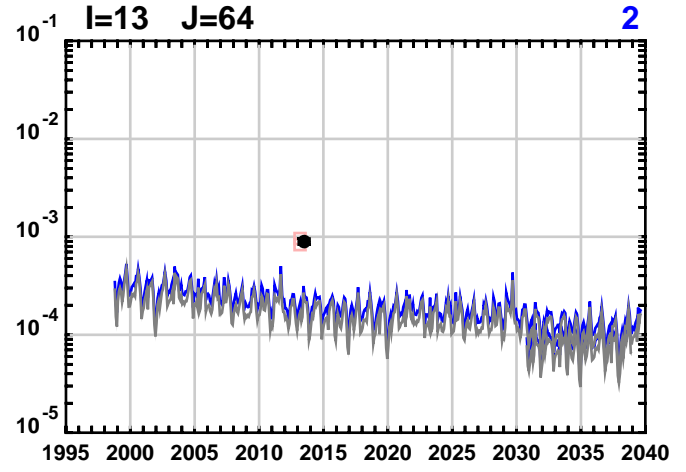
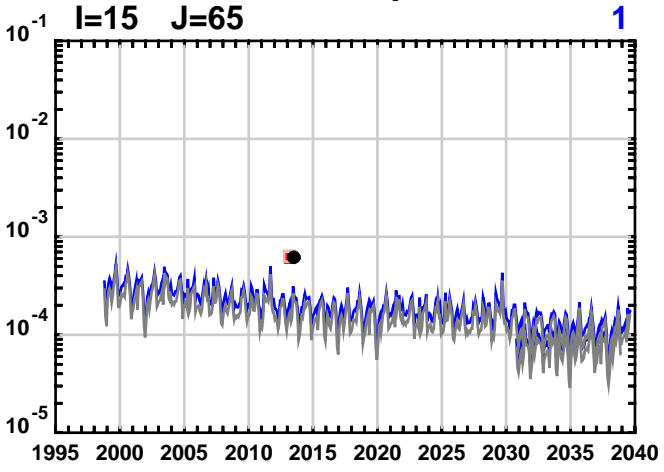


● Detect Data ■ Non-Detect Data
— Model: mean and range of values in Water Column
— Model: Particulate Phase mean and range of values in Water Column
● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

2,3,4,7,8-Pentachlorodibenzofuran, ng/L

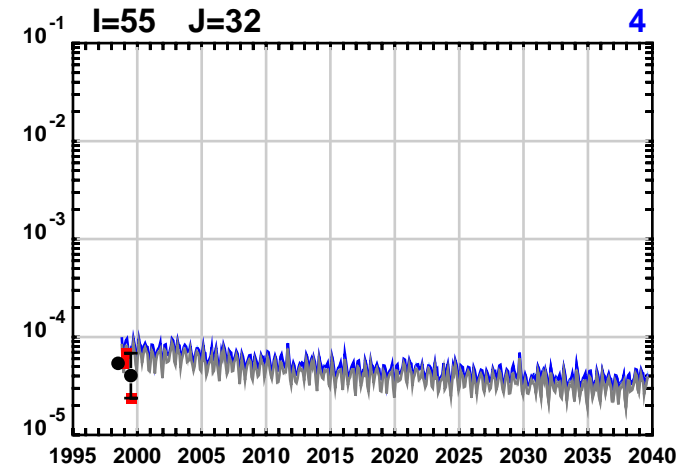
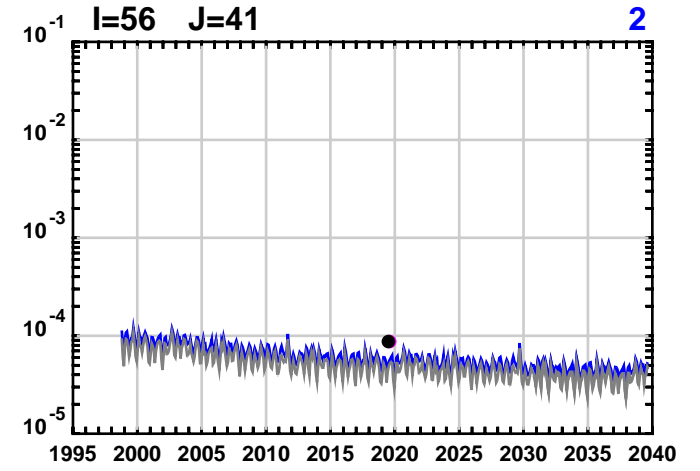
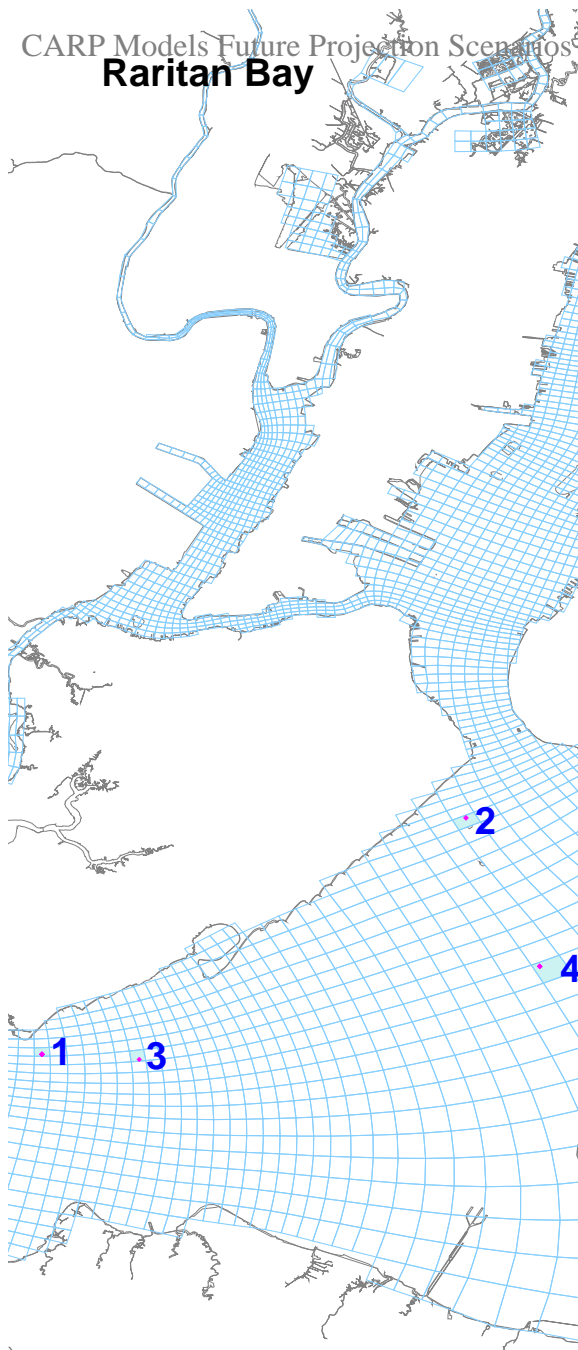
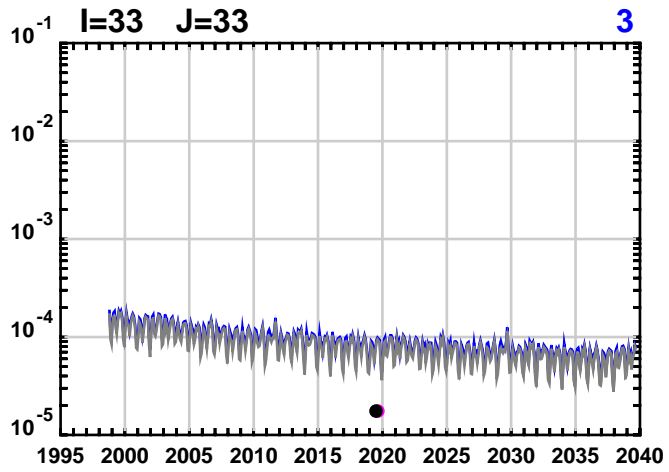
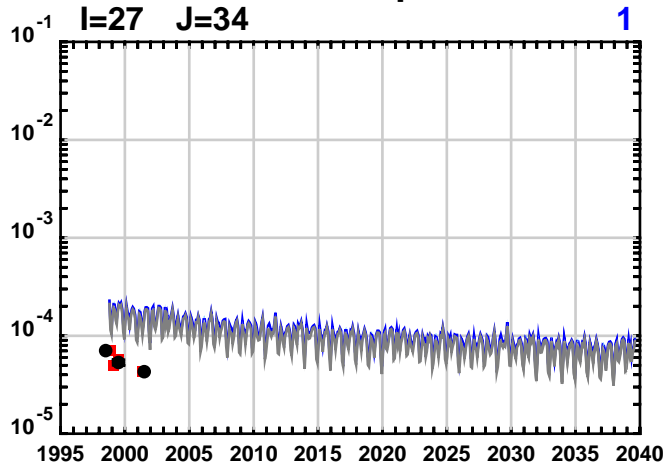
CARP Models Future Projection Scenarios
Arthur Kill



● Detect Data ■ Non-Detect Data ● Water Column Data: yearly mean and range
■ Model: mean and range of values in Water Column ● CARP2 Data
■ Model: Particulate Phase mean and range of values in Water Column

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

2,3,4,7,8-Pentachlorodibenzofuran, ng/L

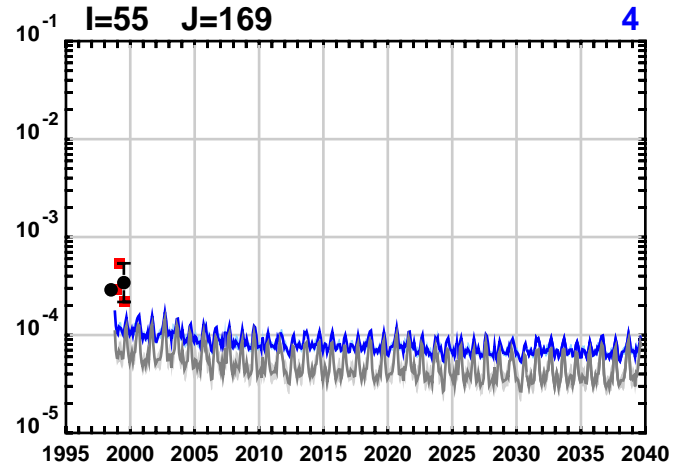
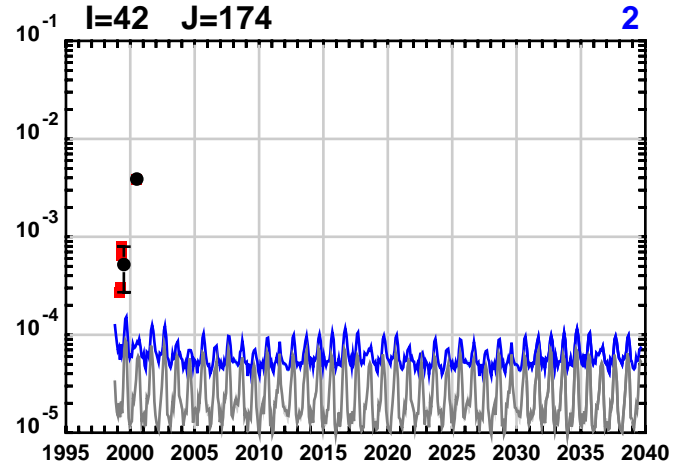
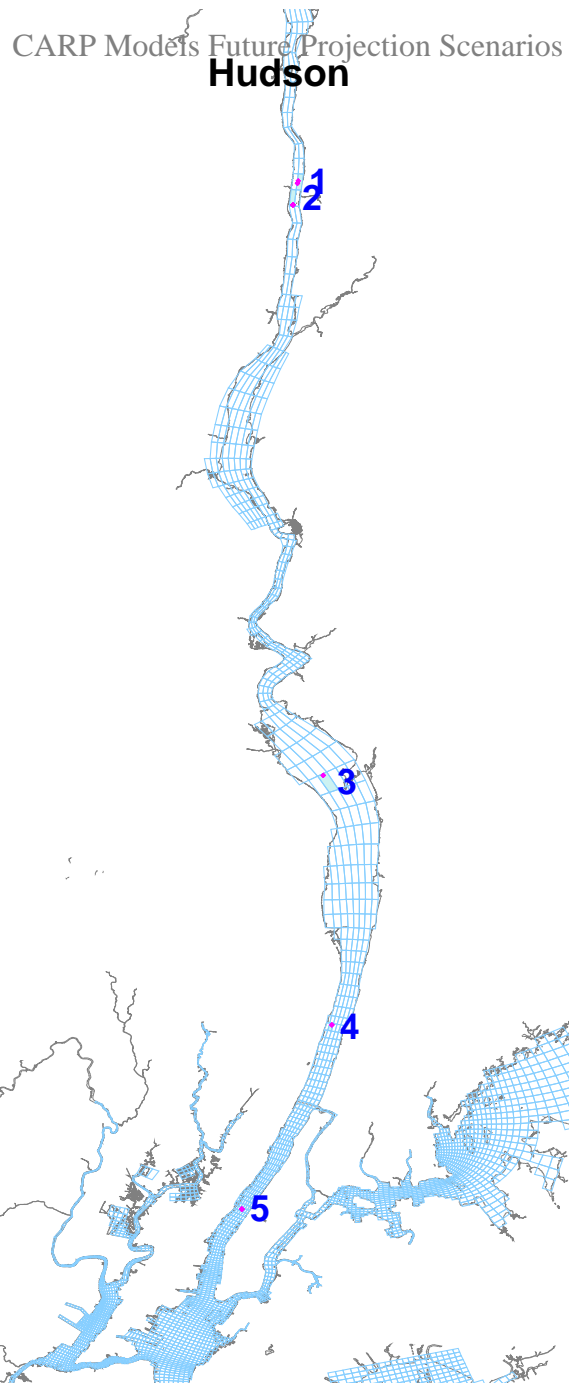
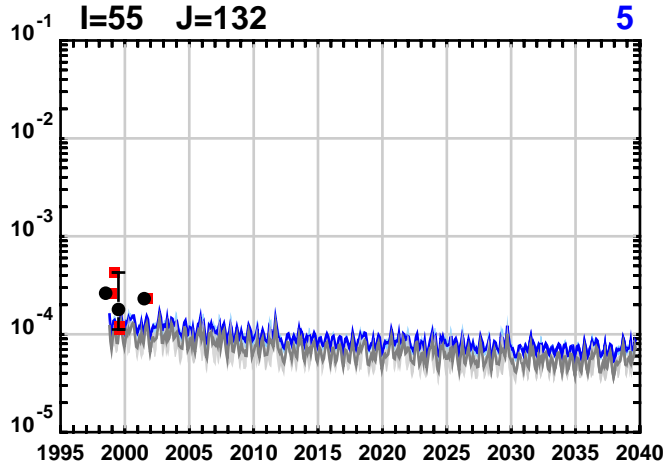
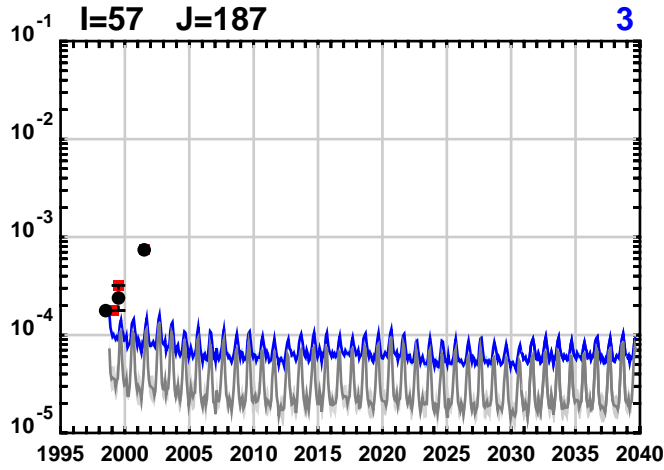
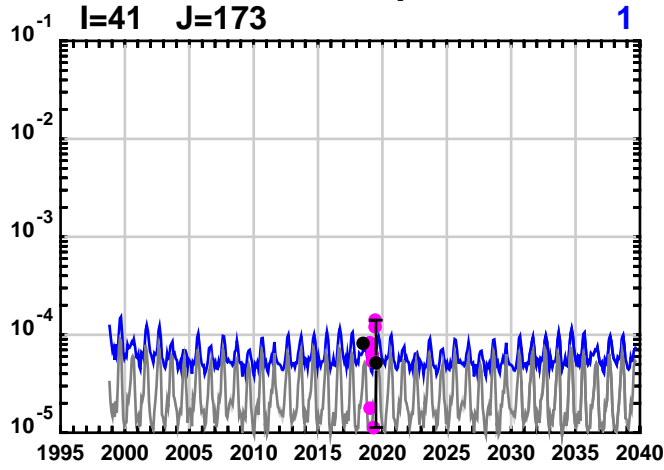


Detect Data **Non-Detect Data**
Model: mean and range of values in Water Column
 Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range
 ● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

2,3,4,7,8-Pentachlorodibenzofuran, ng/L

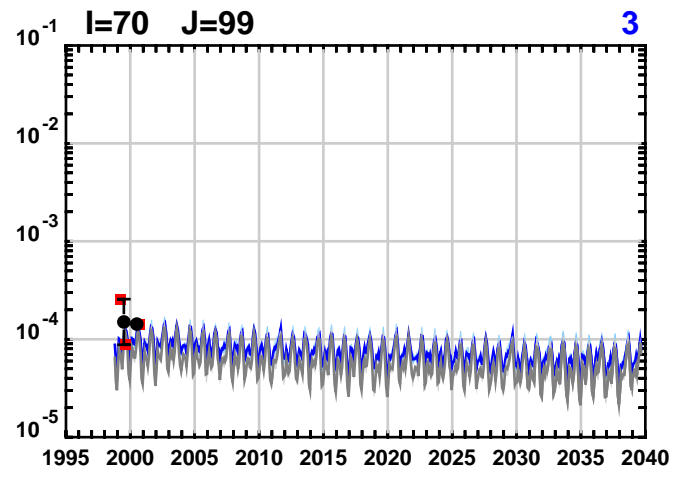
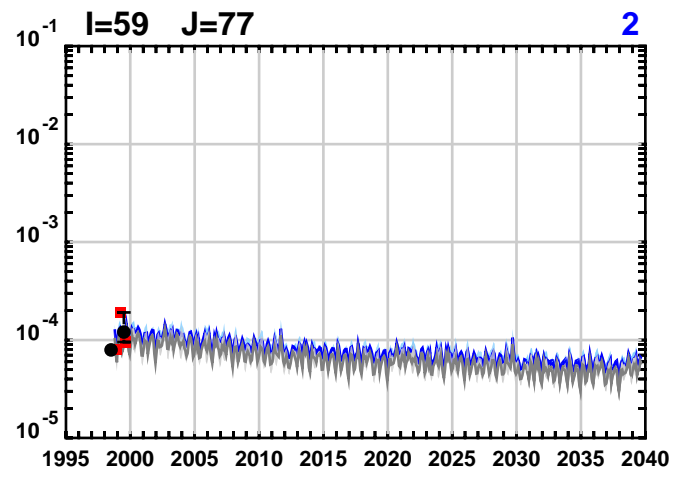
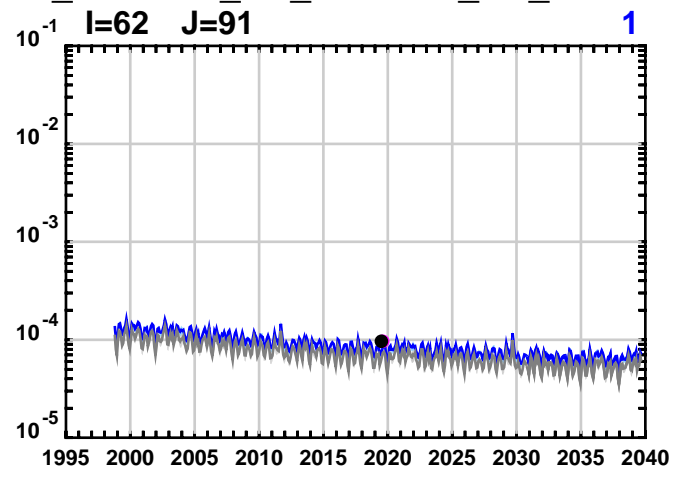
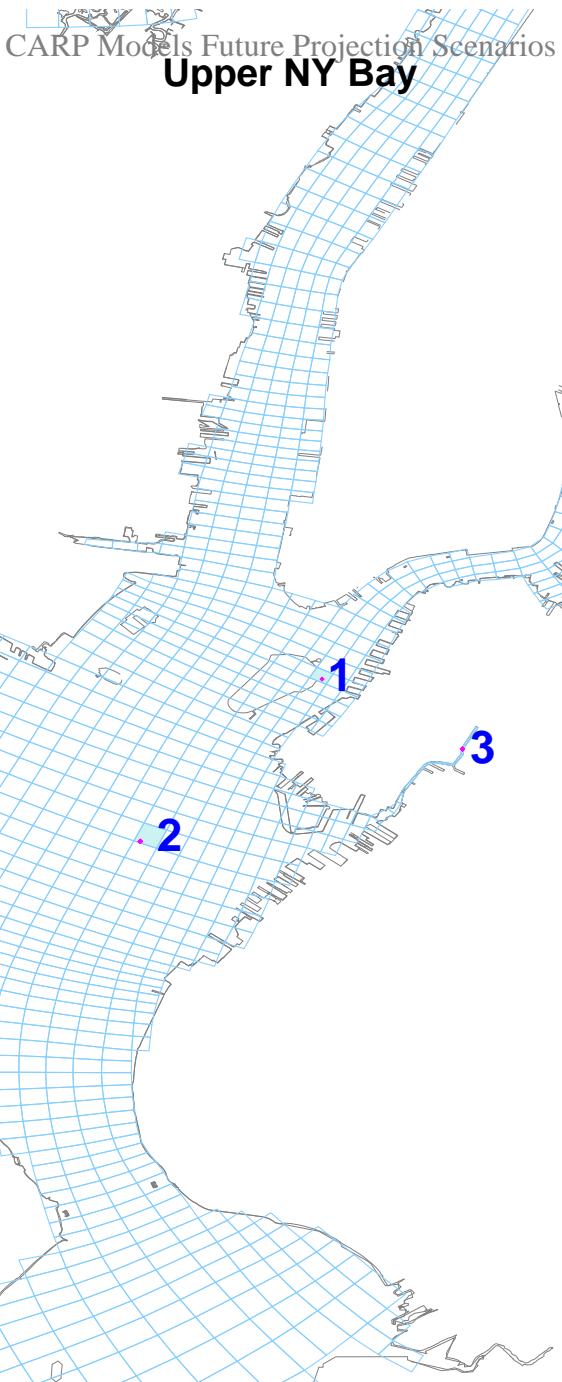


● Detect Data ● Non-Detect Data
● Model: mean and range of values in Water Column
● Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

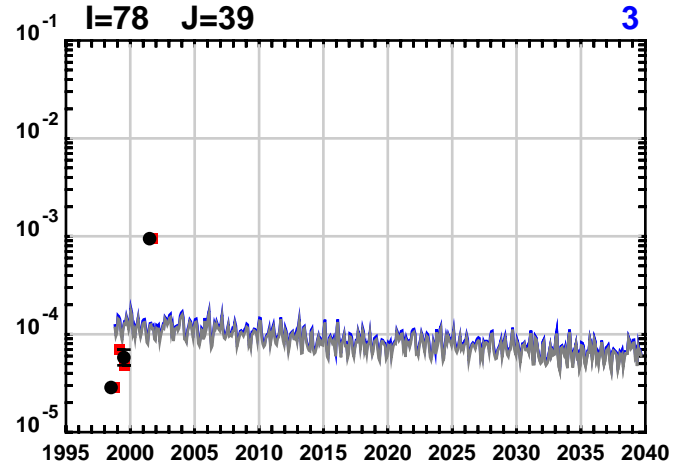
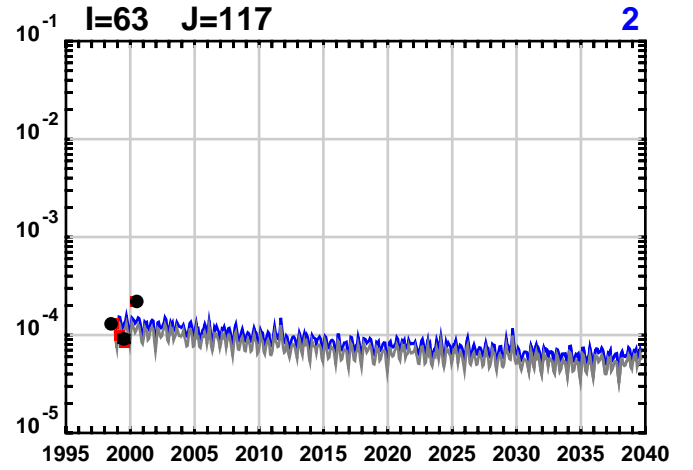
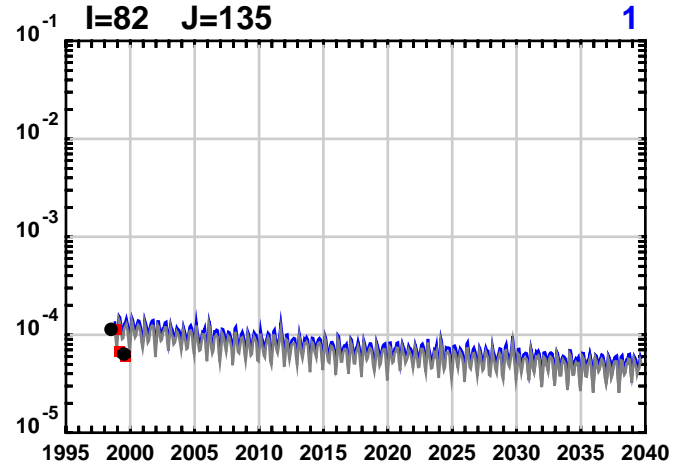
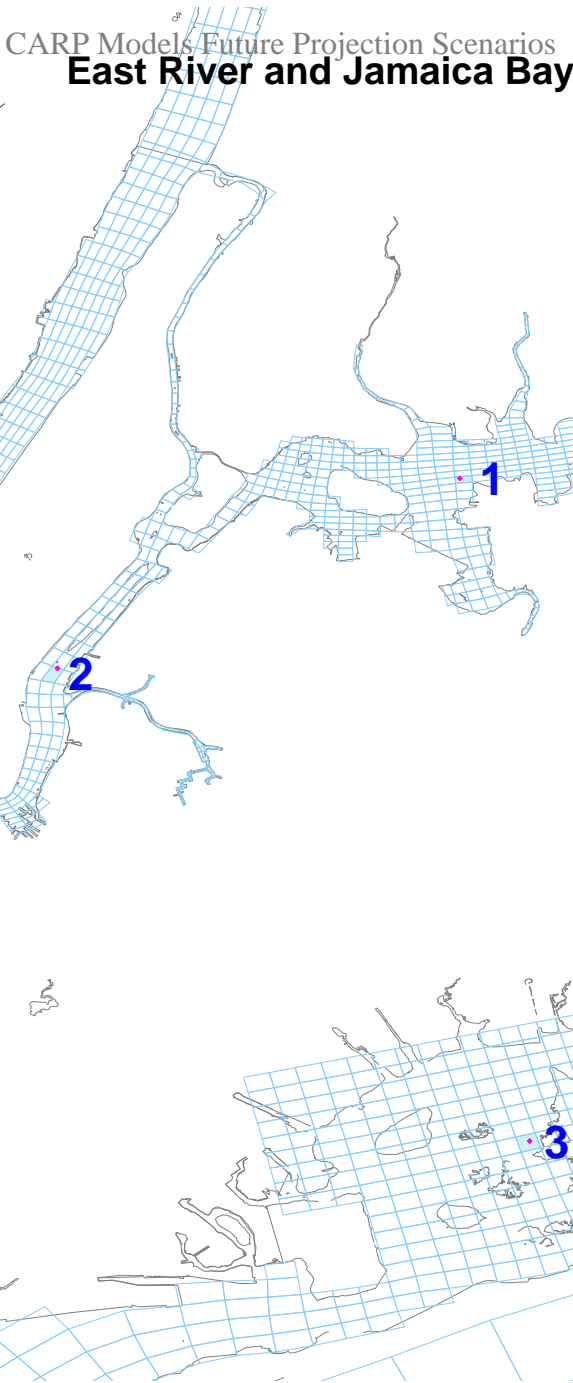
2,3,4,7,8-Pentachlorodibenzofuran, ng/L



Detect Data **Non-Detect Data**
Model: mean and range of values in Water Column
 Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range
 ● CARP2 Data

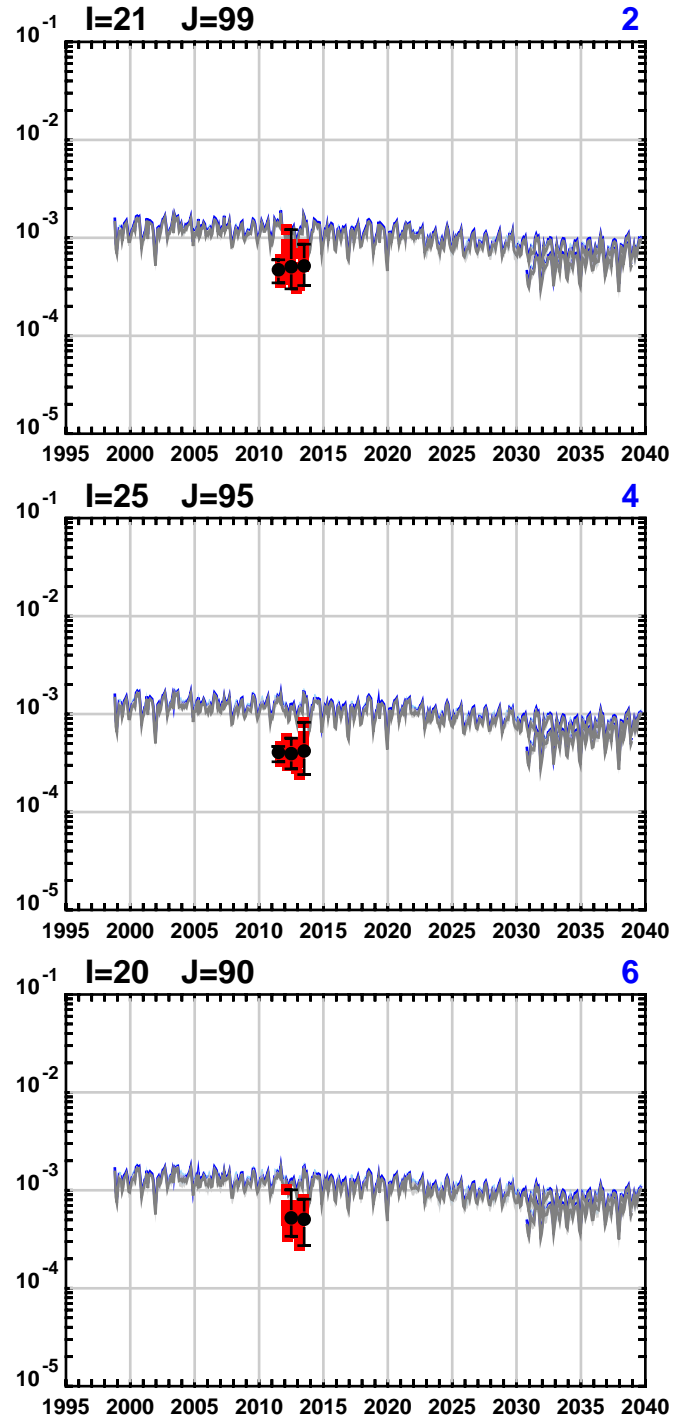
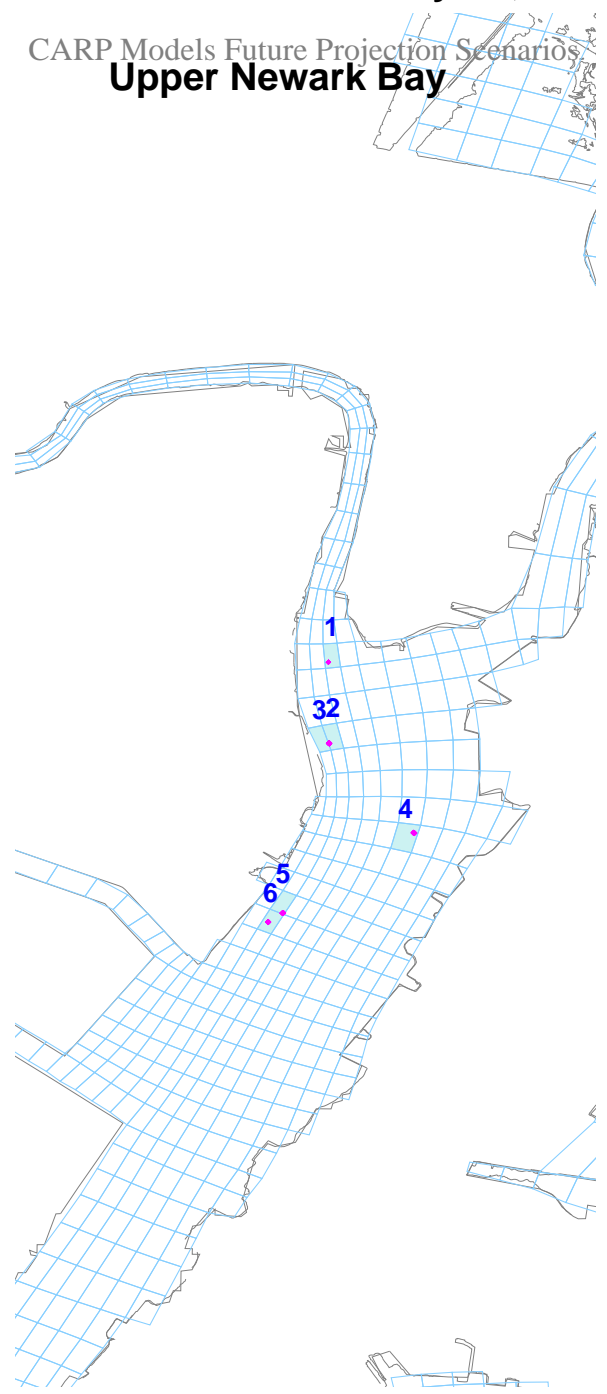
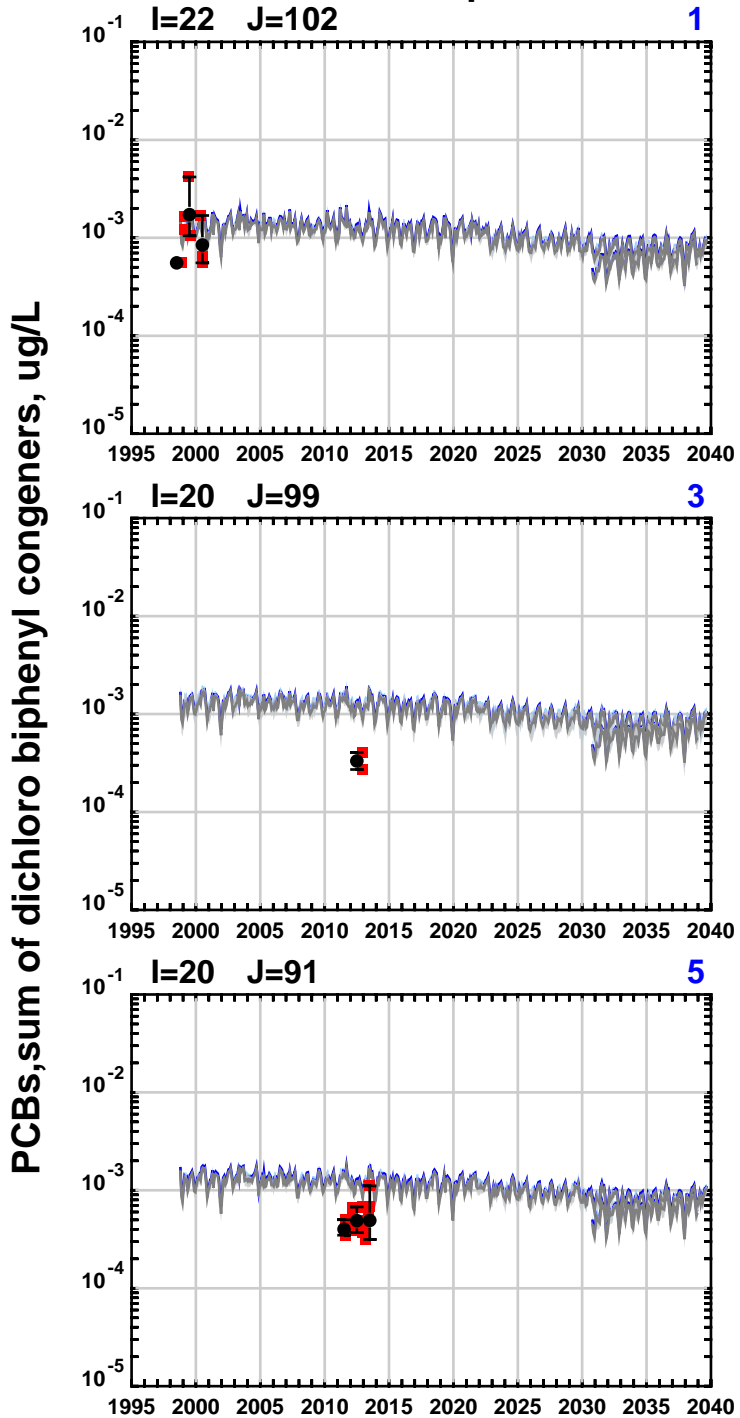
2,3,4,7,8-Pentachlorodibenzofuran, ng/L



Detect Data **Non-Detect Data**
Model: mean and range of values in Water Column
 Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range
 ● CARP2 Data

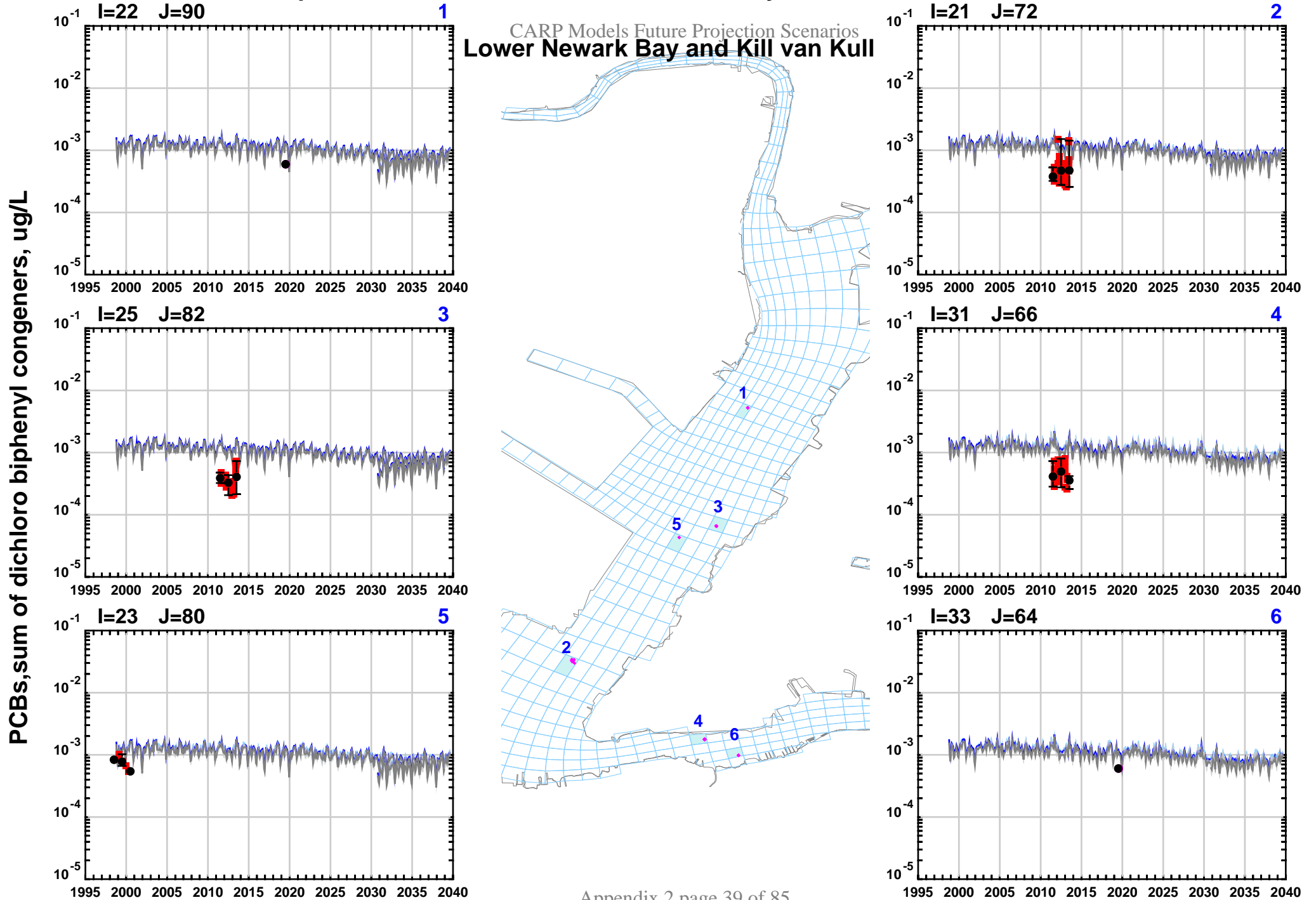
Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



● Detect Data ■ Non-Detect Data
■ Model: mean and range of values in Water Column
■ Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



Detect Data

Non-Detect Data

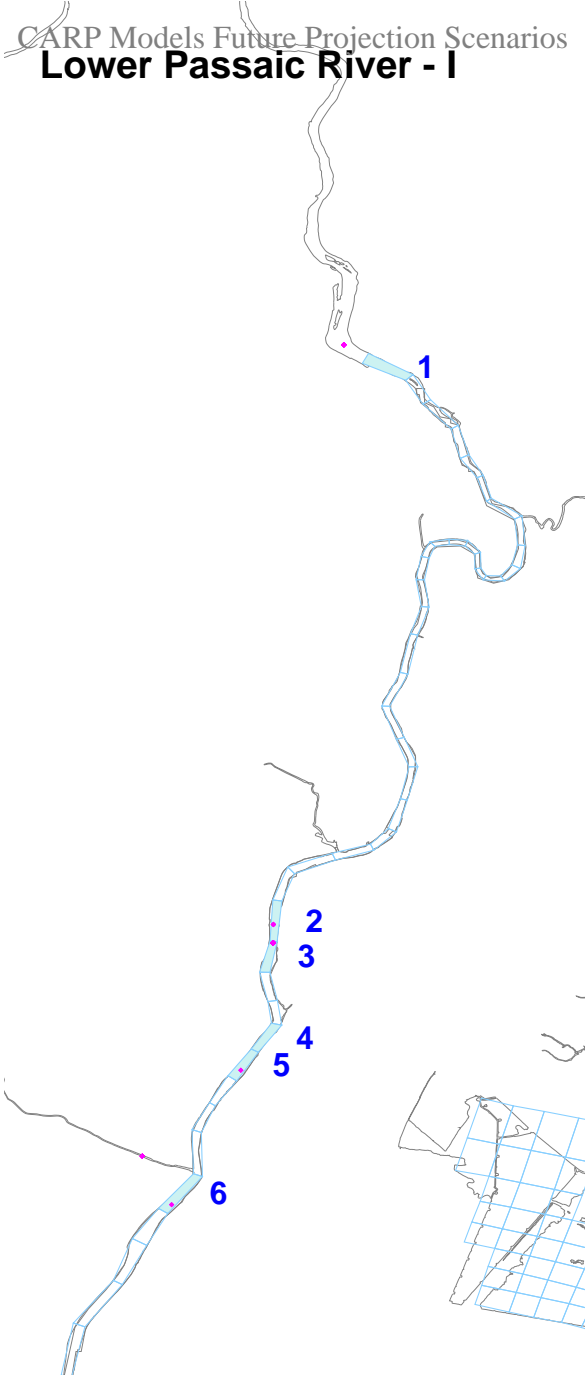
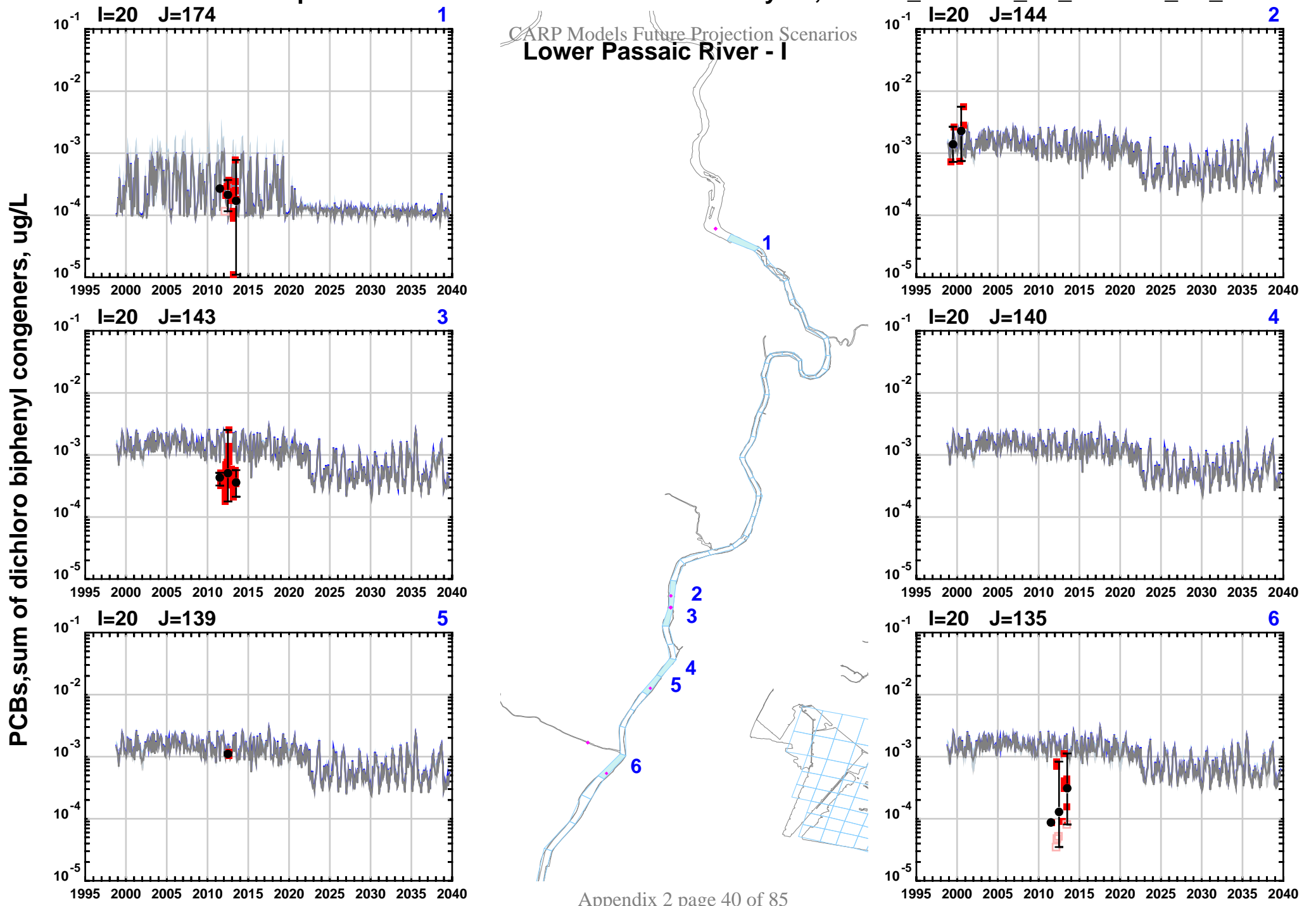
Model: mean and range of values in Water Column

Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range

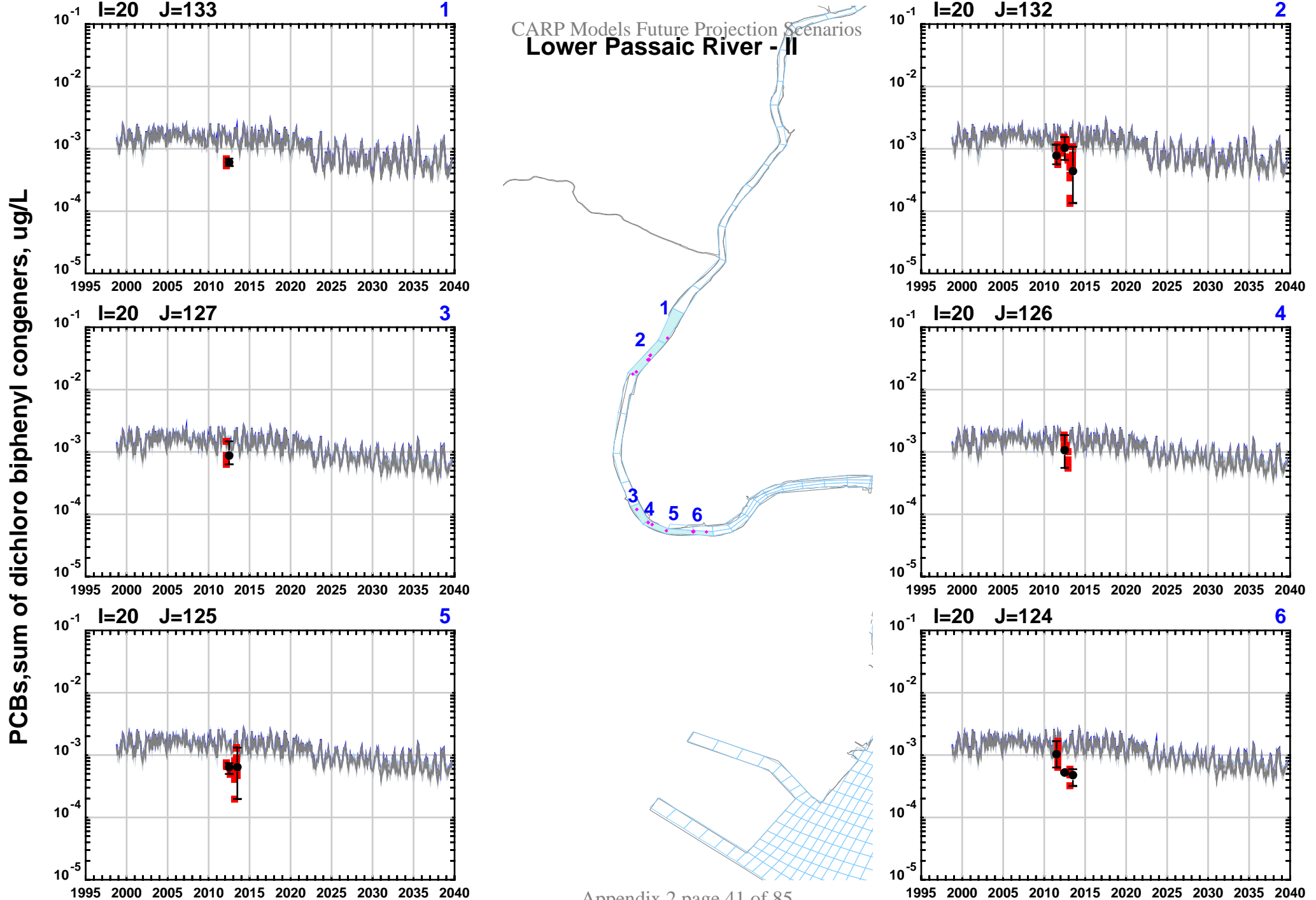
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



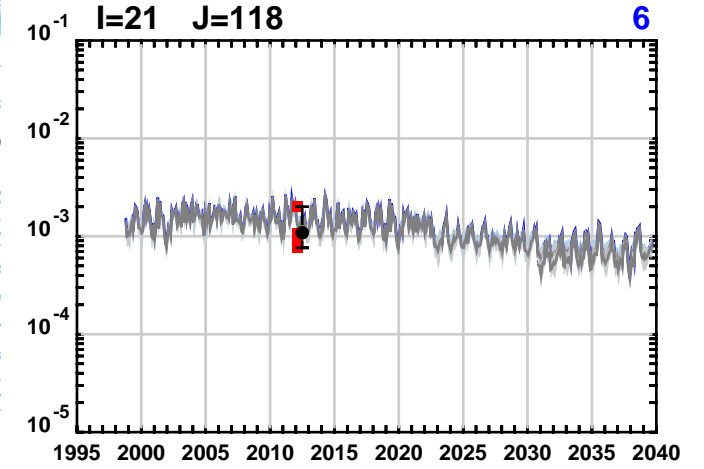
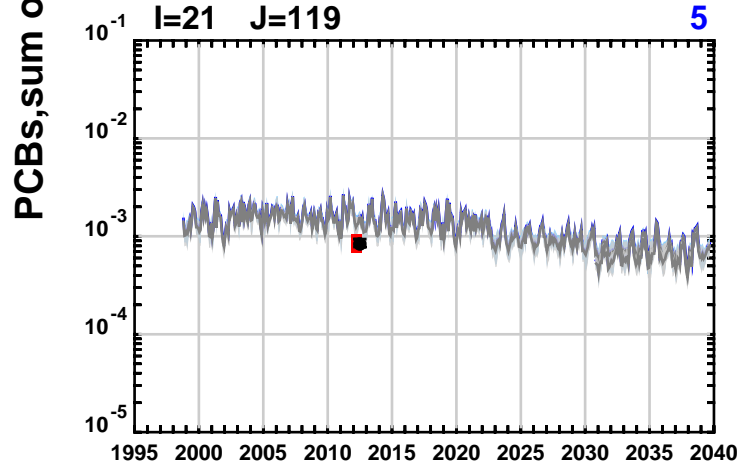
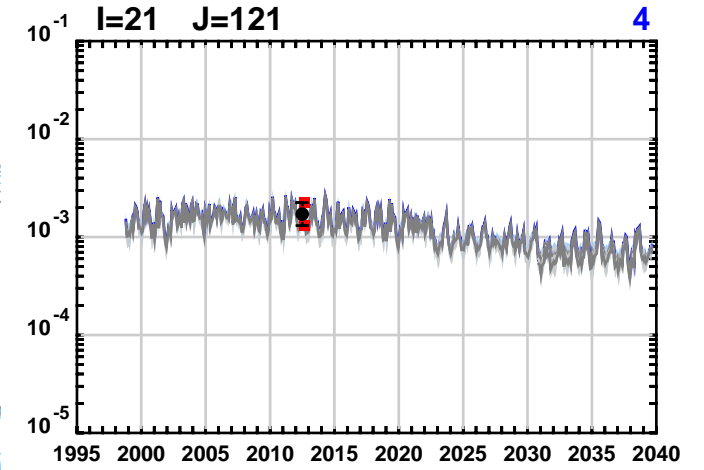
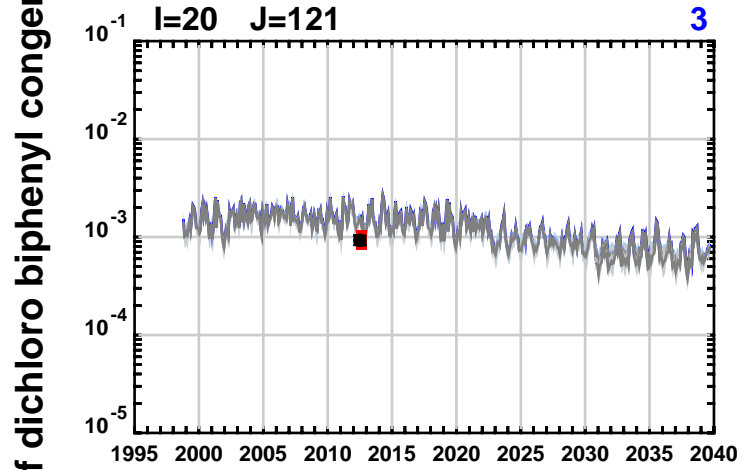
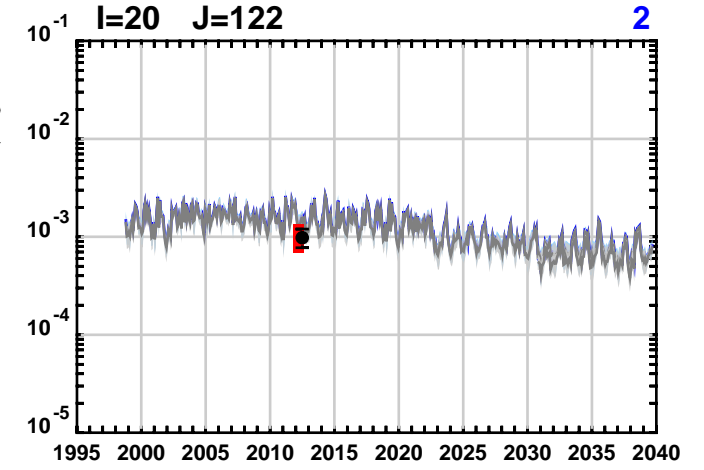
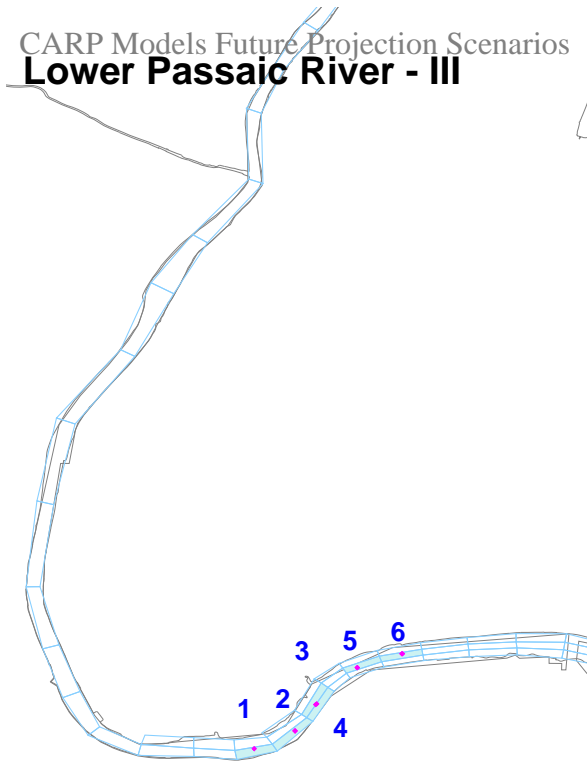
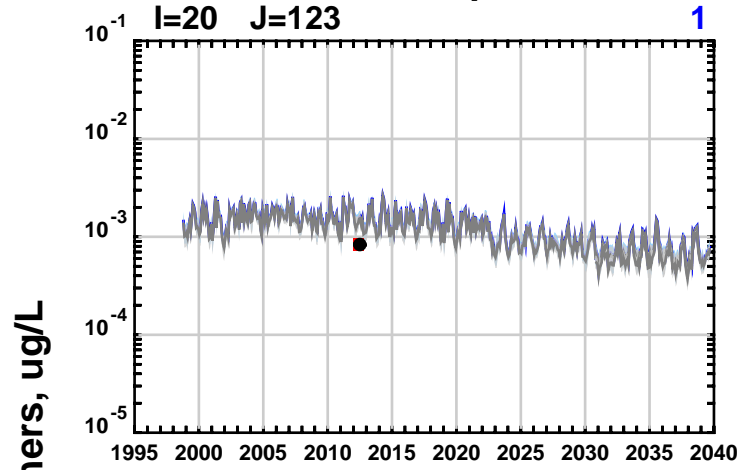
● Detect Data ■ Non-Detect Data
■ Model: mean and range of values in Water Column
 Model: Particulate Phase mean and range of values in Water Column
● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



● Detect Data ■ Non-Detect Data
— Model: mean and range of values in Water Column
— Model: Particulate Phase mean and range of values in Water Column
● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



Detect Data

Non-Detect Data

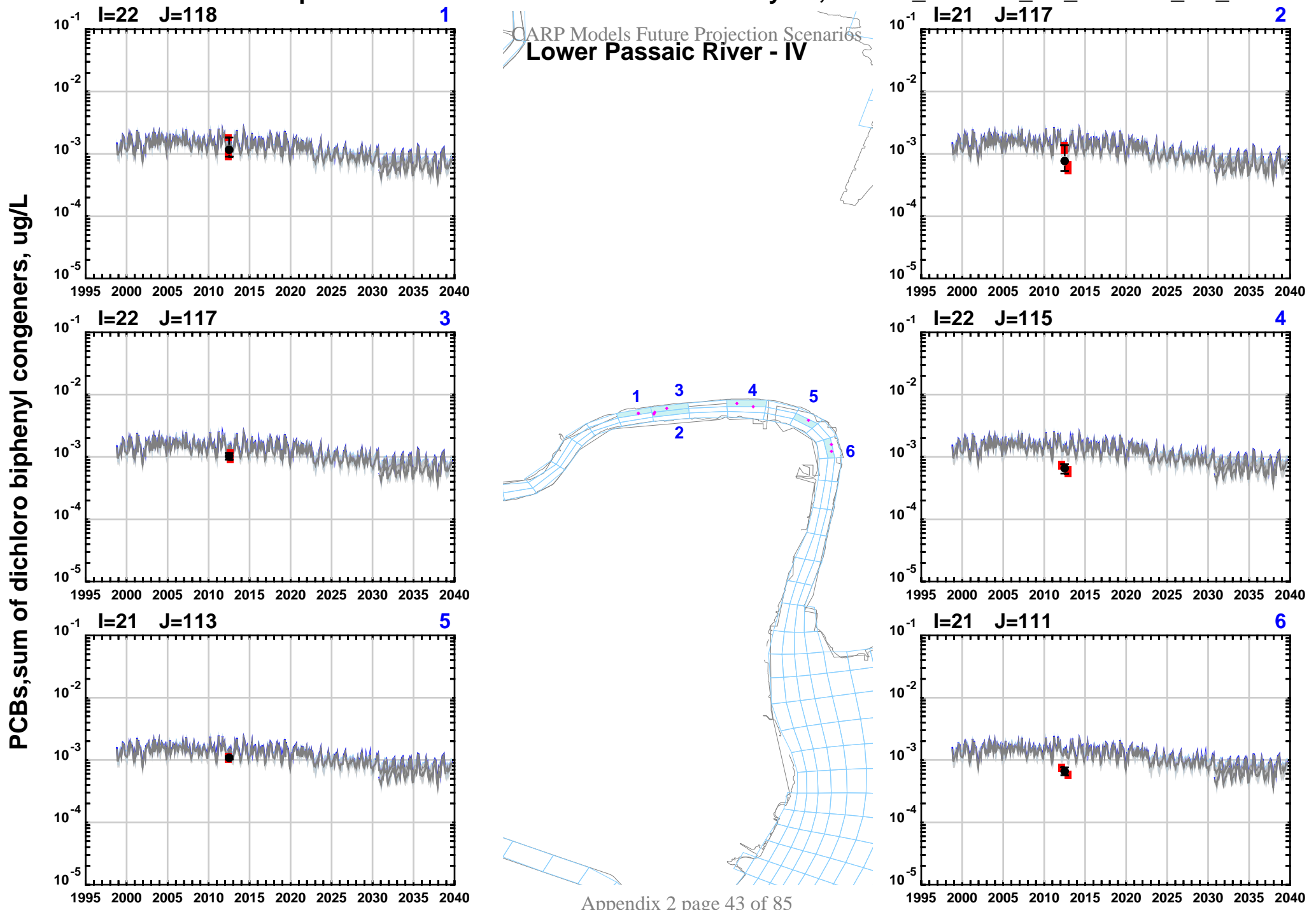
Model: mean and range of values in Water Column

Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range

● CARP2 Data

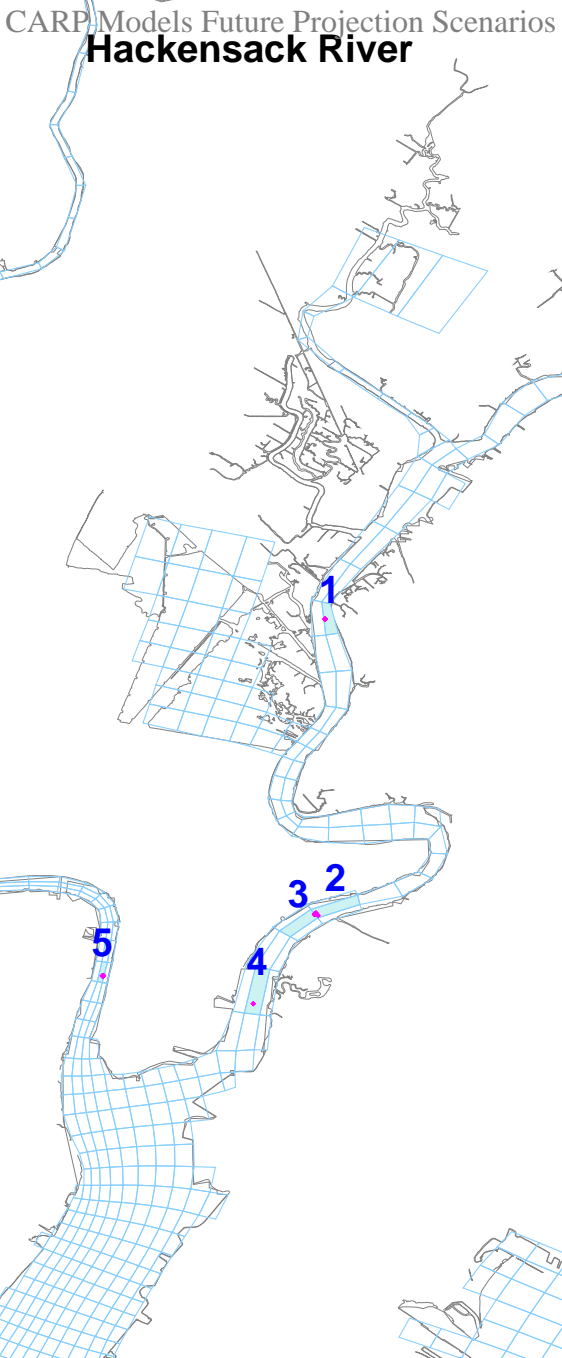
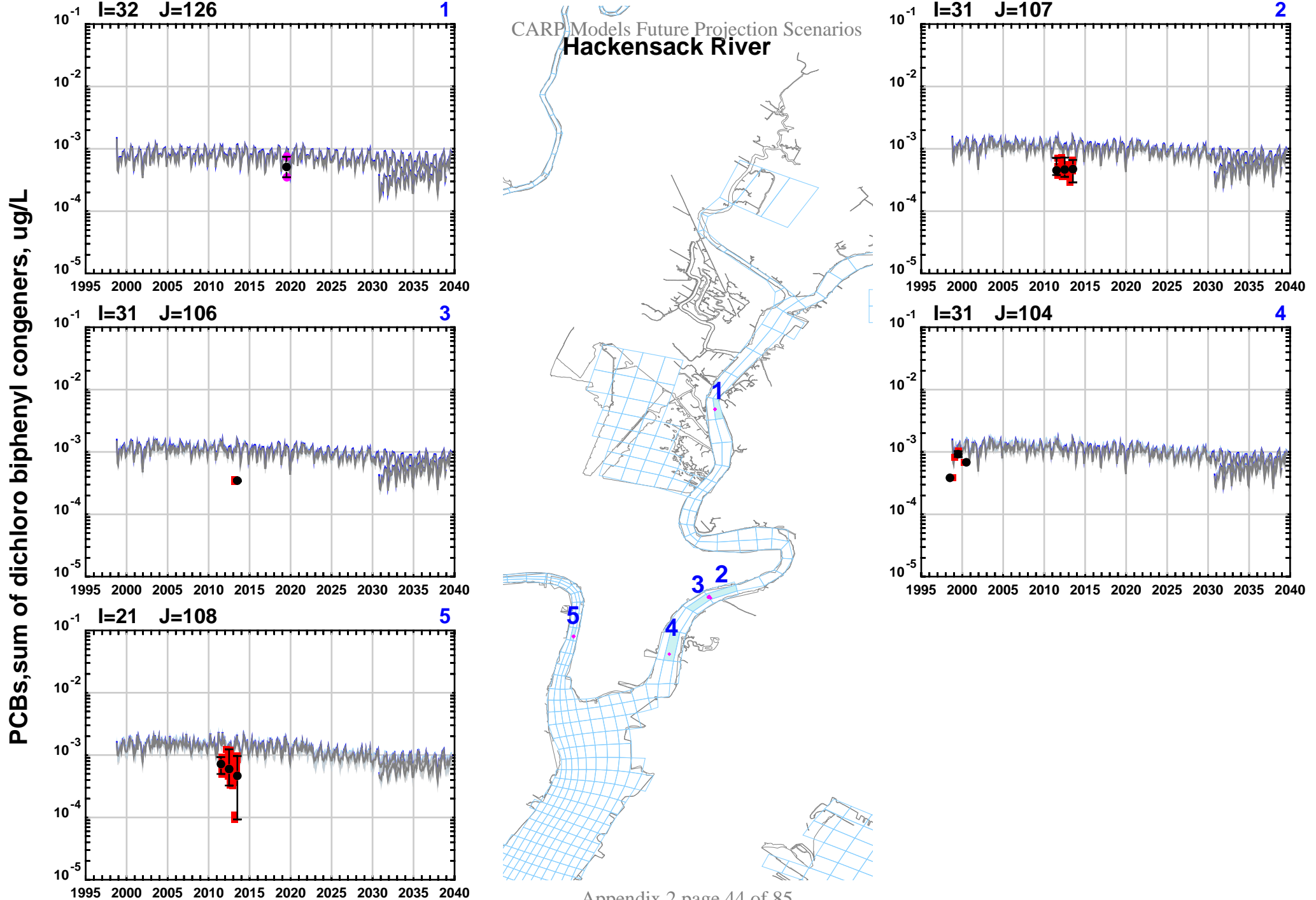
Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



CARP Models Future Projection Scenarios
Lower Passaic River - IV

● **Detect Data** ■ **Non-Detect Data**
■ **Model: mean and range of values in Water Column**
 Model: Particulate Phase mean and range of values in Water Column
● **Water Column Data: yearly mean and range**
● **CARP2 Data**

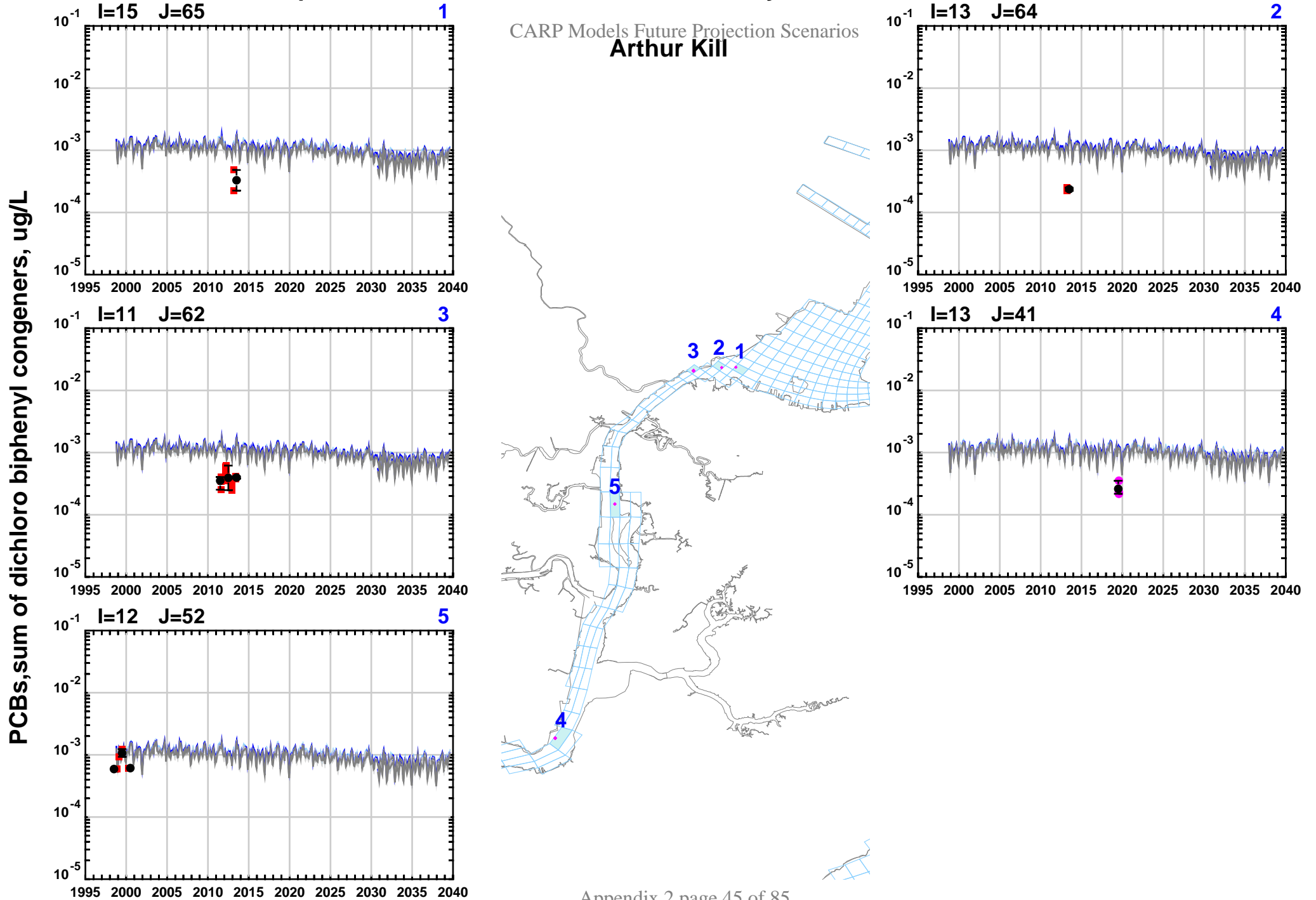
Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



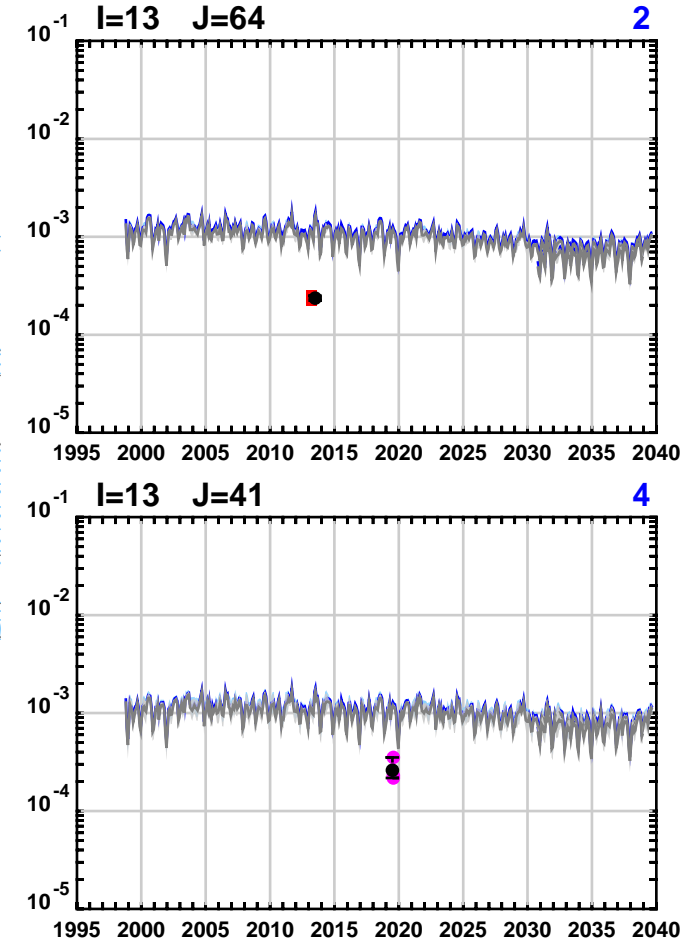
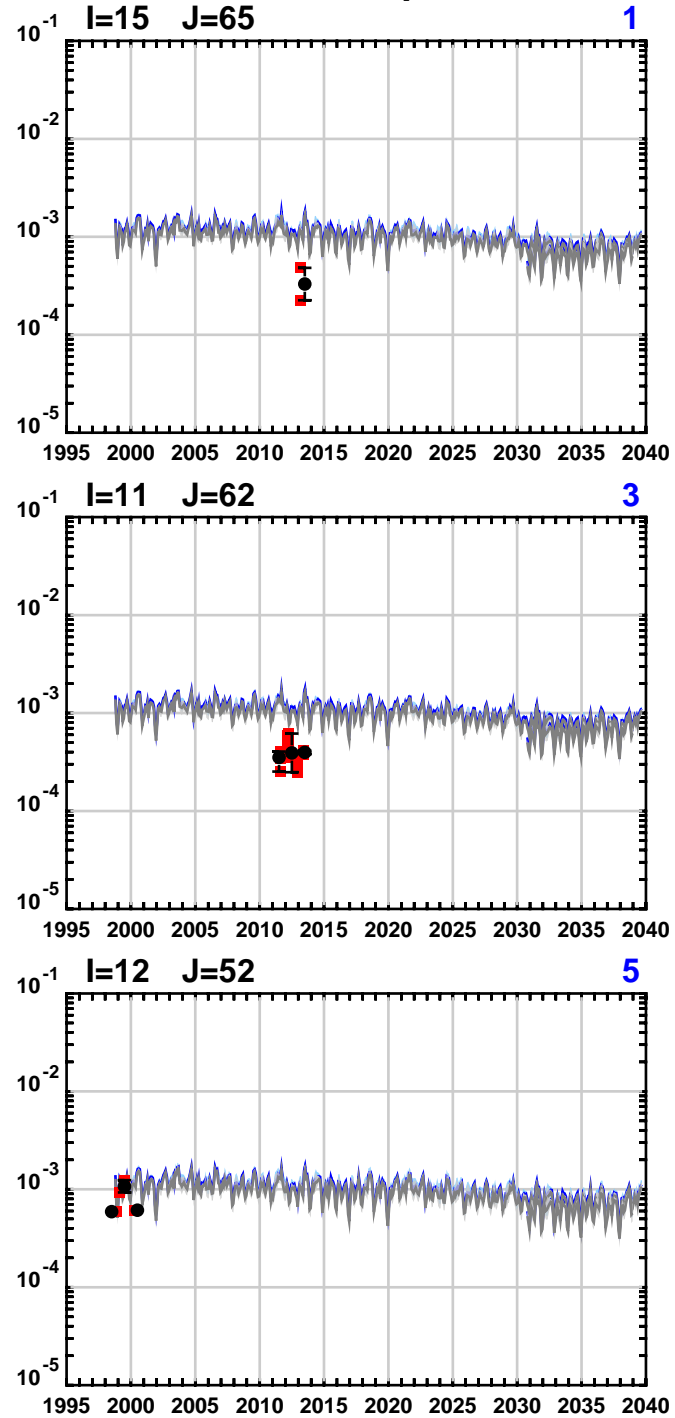
● **Detect Data** ● **Non-Detect Data**
— **Model: mean and range of values in Water Column**
— **Model: Particulate Phase mean and range of values in Water Column**

● **Water Column Data: yearly mean and range**
● **CARP2 Data**

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

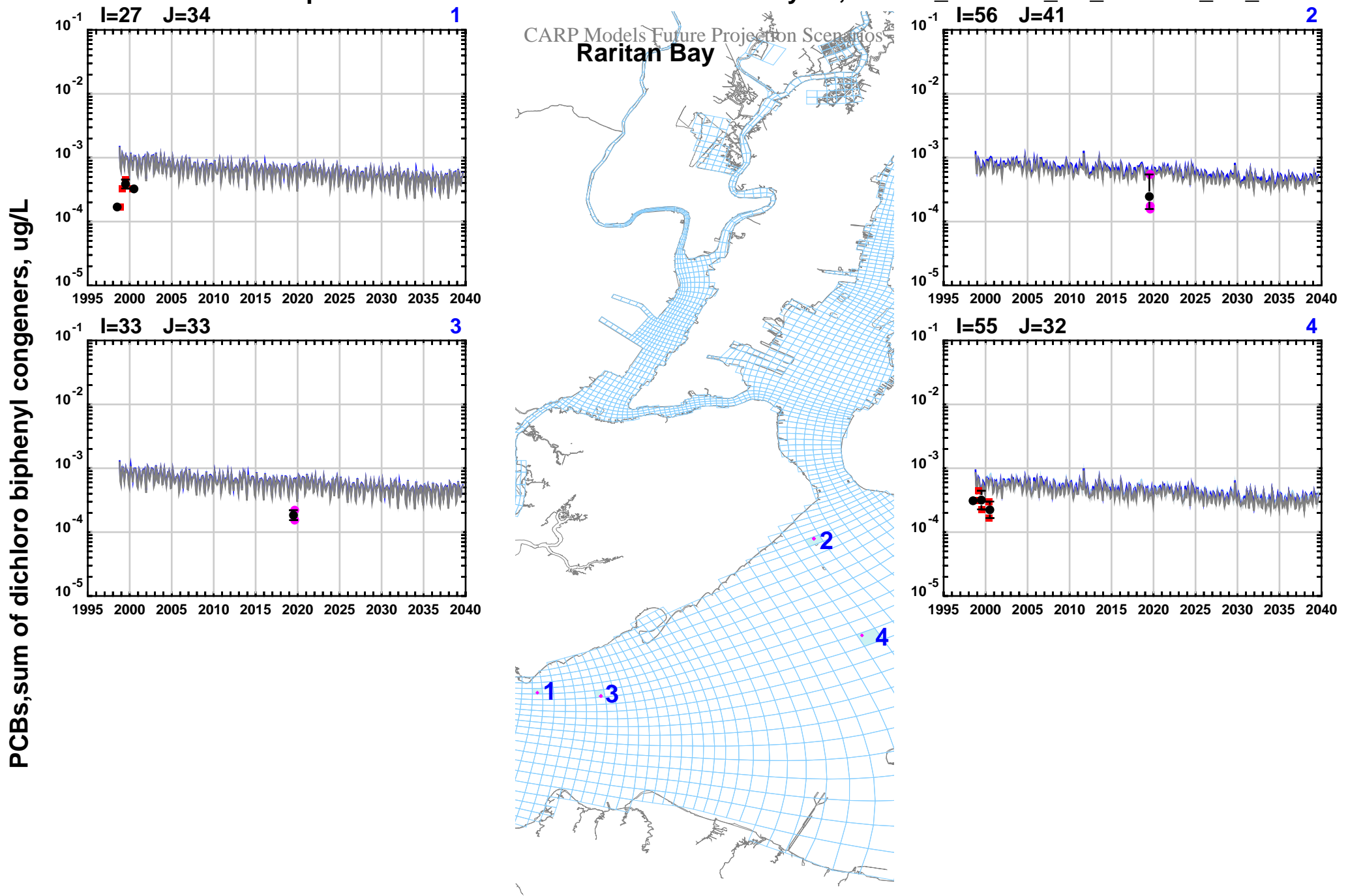


PCBs, sum of dichloro biphenyl congeners, ug/L



● Detect Data ● Non-Detect Data
● Model: mean and range of values in Water Column
● Model: Particulate Phase mean and range of values in Water Column
● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

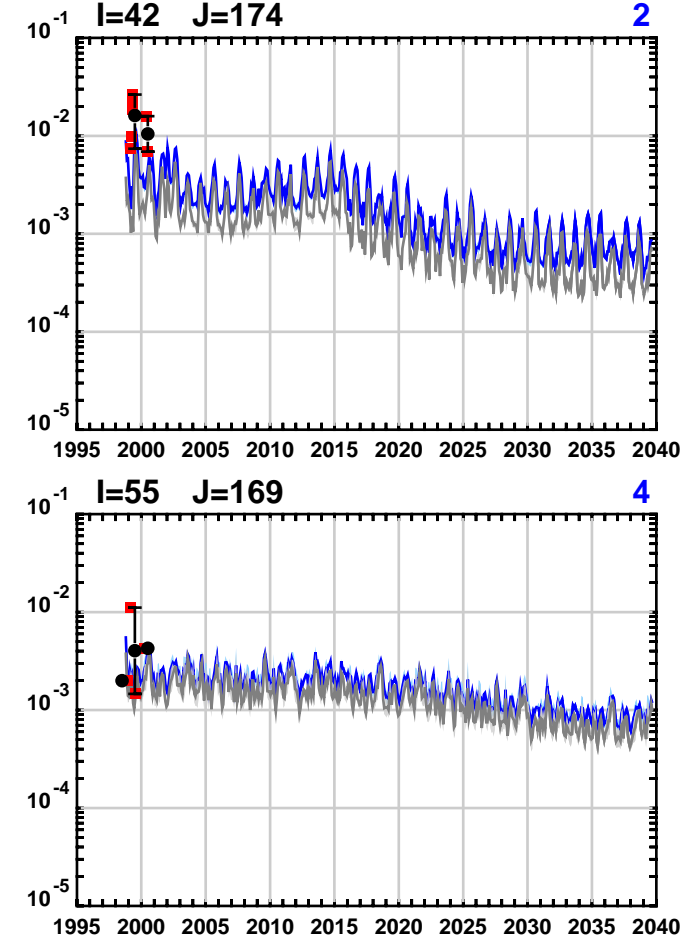
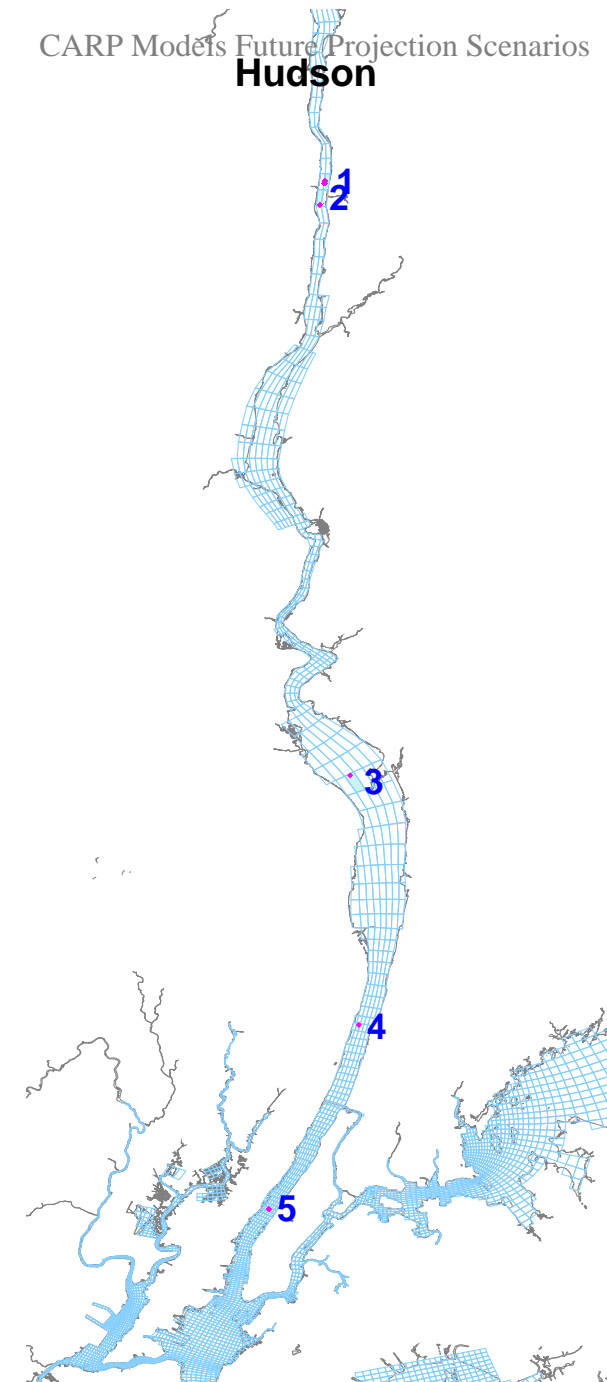
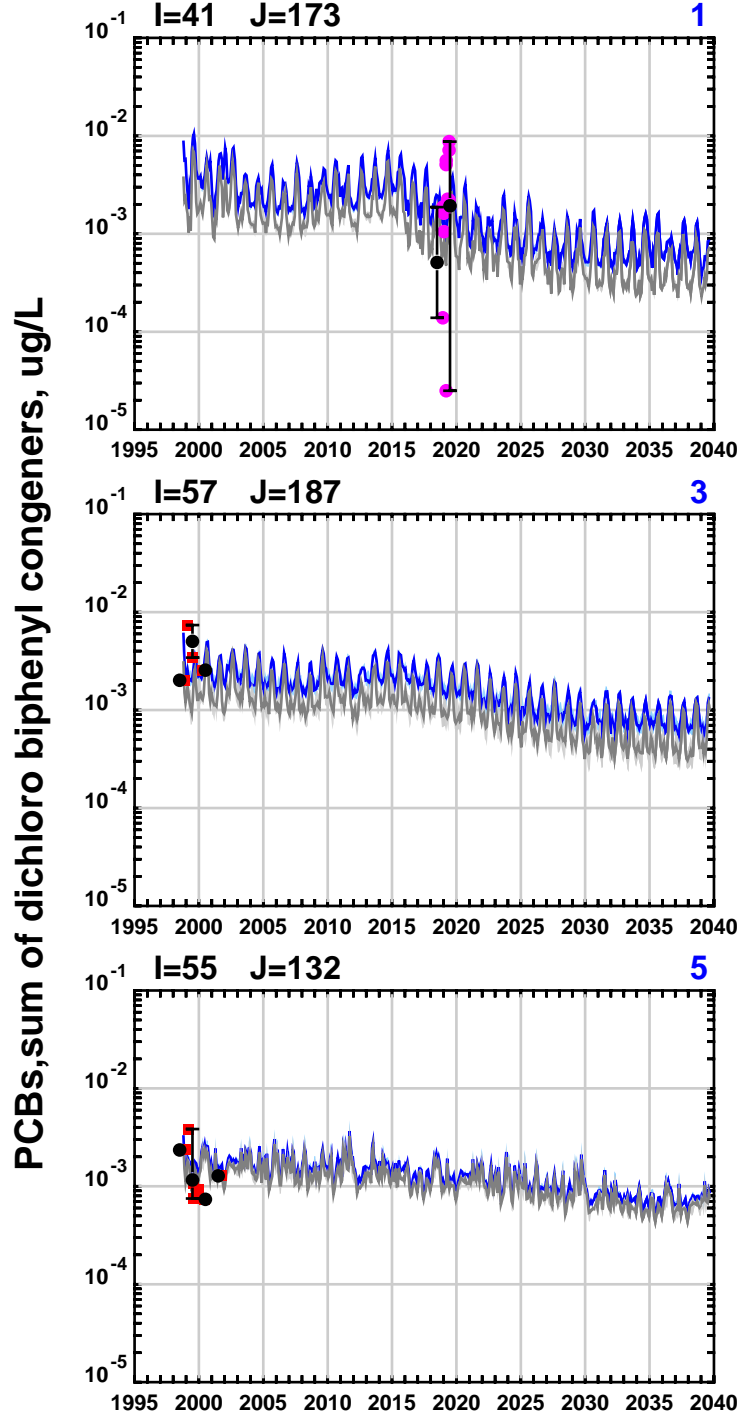


Detect Data
Model: mean and range of values in Water Column
 Model: Particulate Phase mean and range of values in Water Column

Non-Detect Data

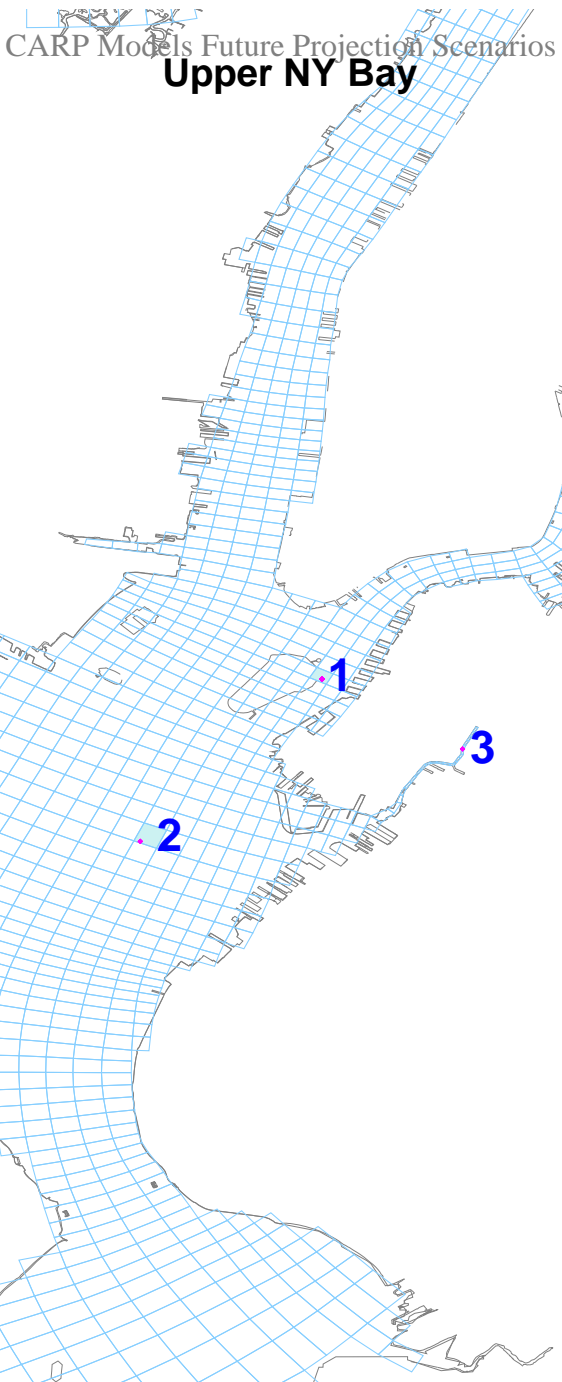
● Water Column Data: yearly mean and range
 ● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

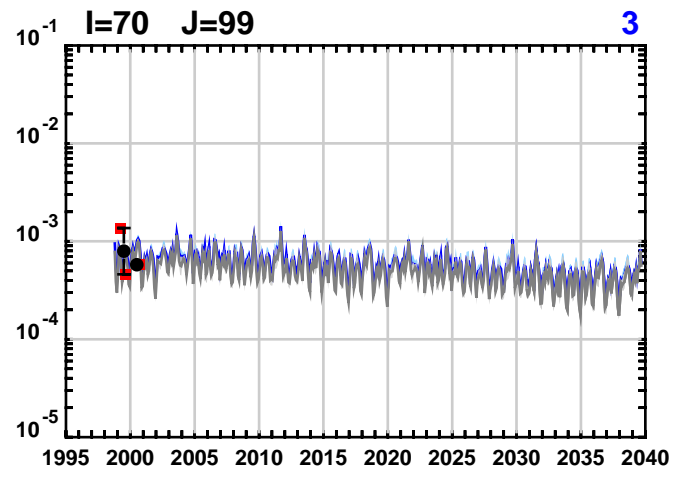
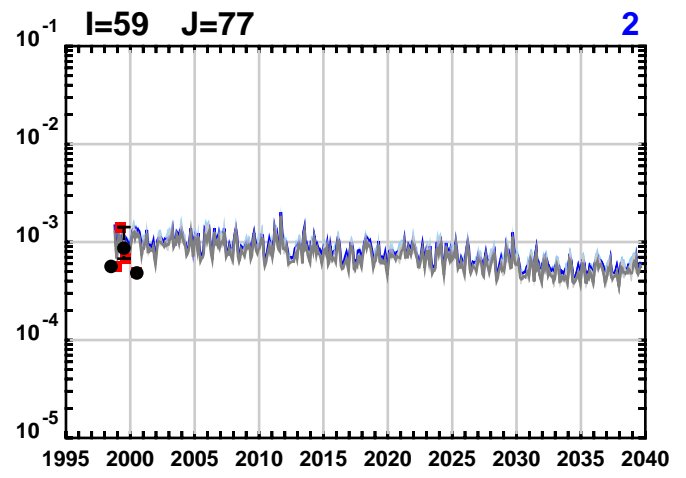
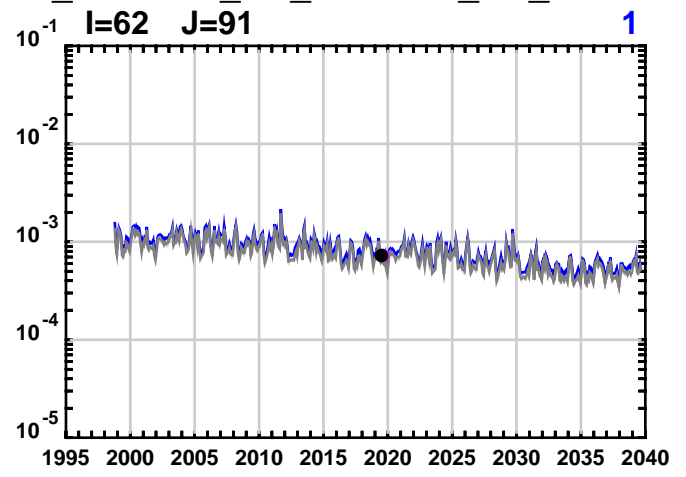


● Detect Data ● Non-Detect Data
● Model: mean and range of values in Water Column
● Model: Particulate Phase mean and range of values in Water Column
● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



PCBs, sum of dichloro biphenyl congeners, ug/L

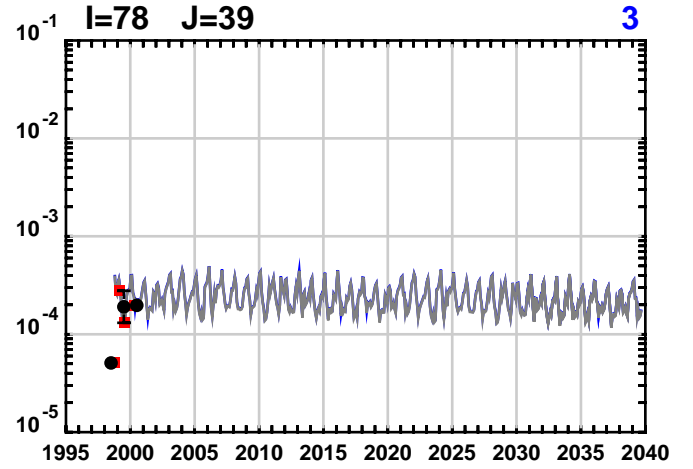
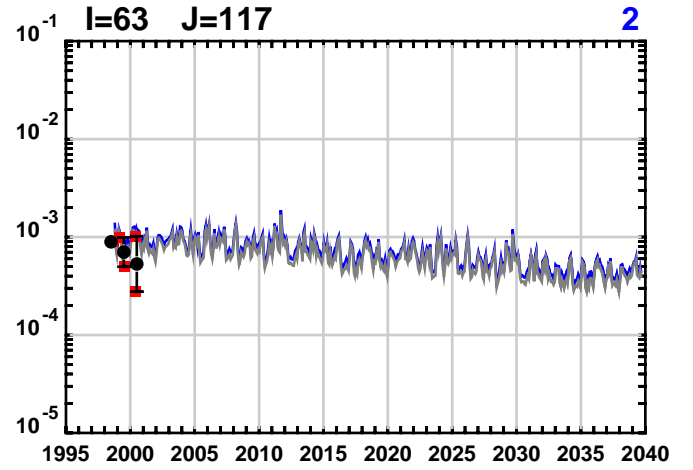
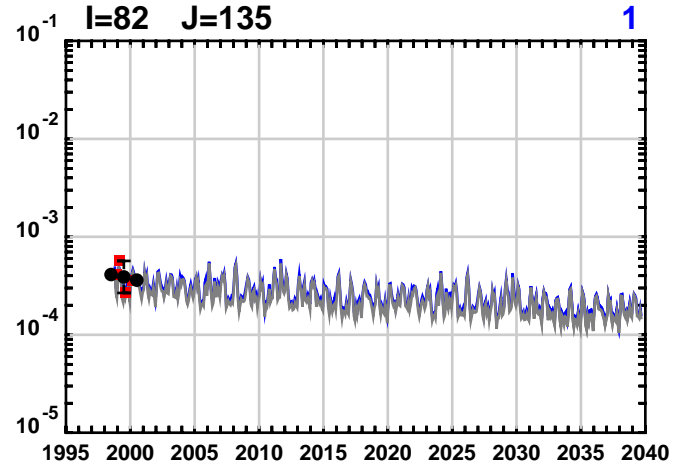
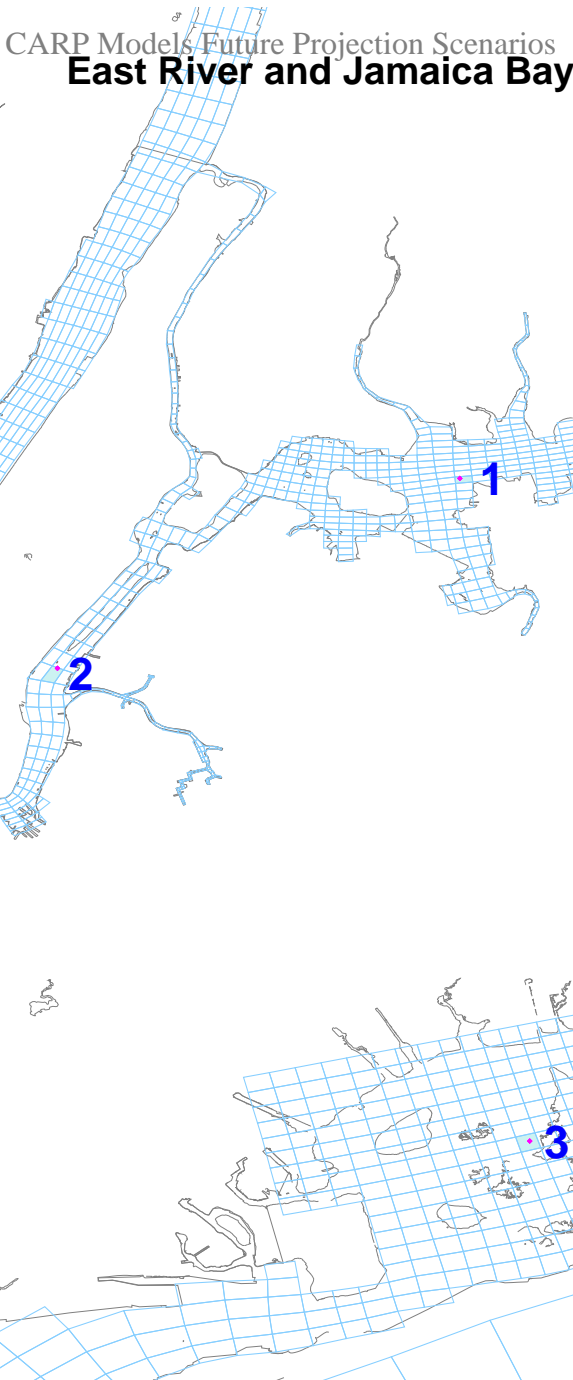


Detect Data **Non-Detect Data**
Model: mean and range of values in Water Column
 Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range
 ● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

PCBs, sum of dichloro biphenyl congeners, ug/L



Detect Data

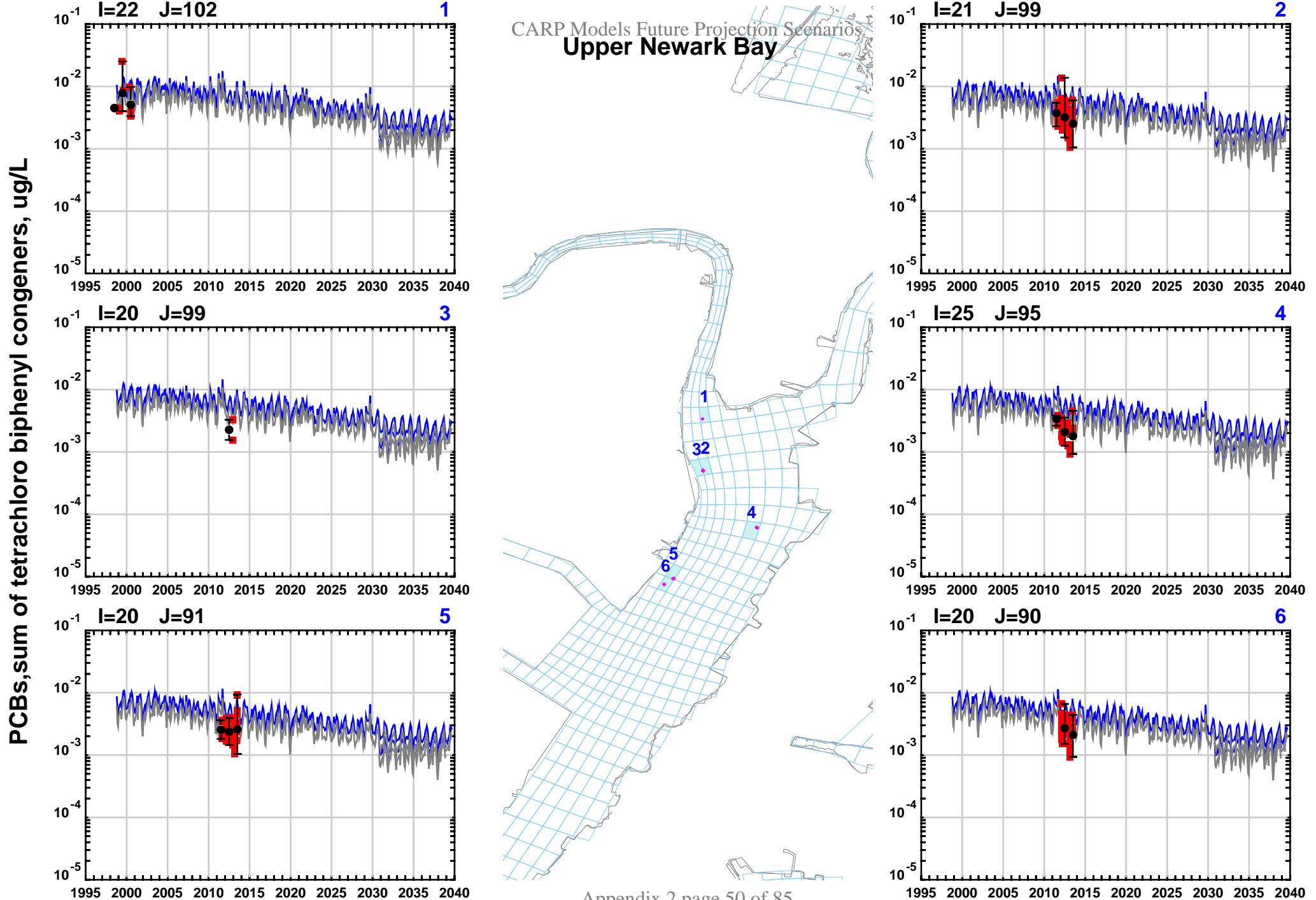
Non-Detect Data

Model: mean and range of values in Water Column

Model: Particulate Phase mean and range of values in Water Column

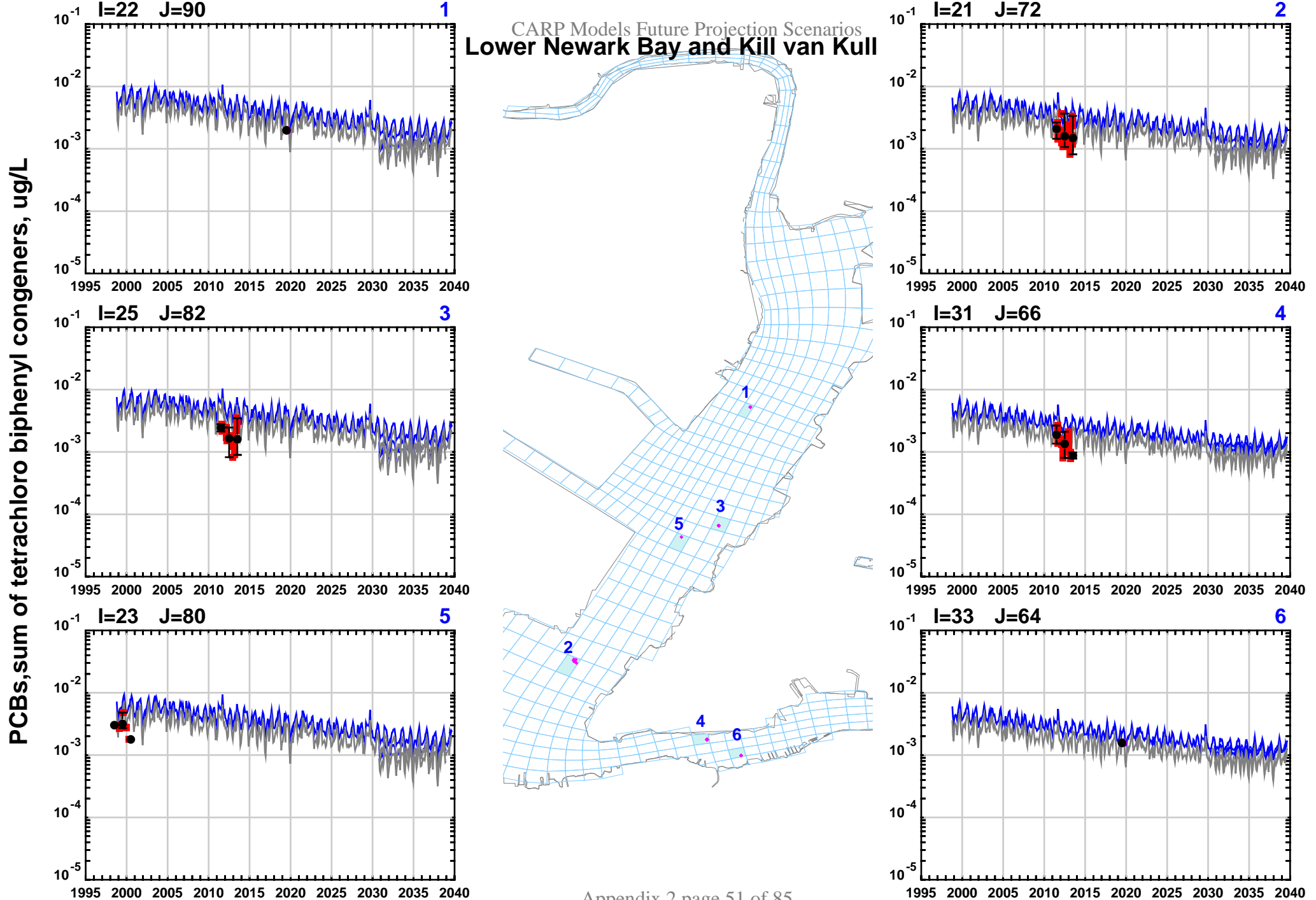
● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



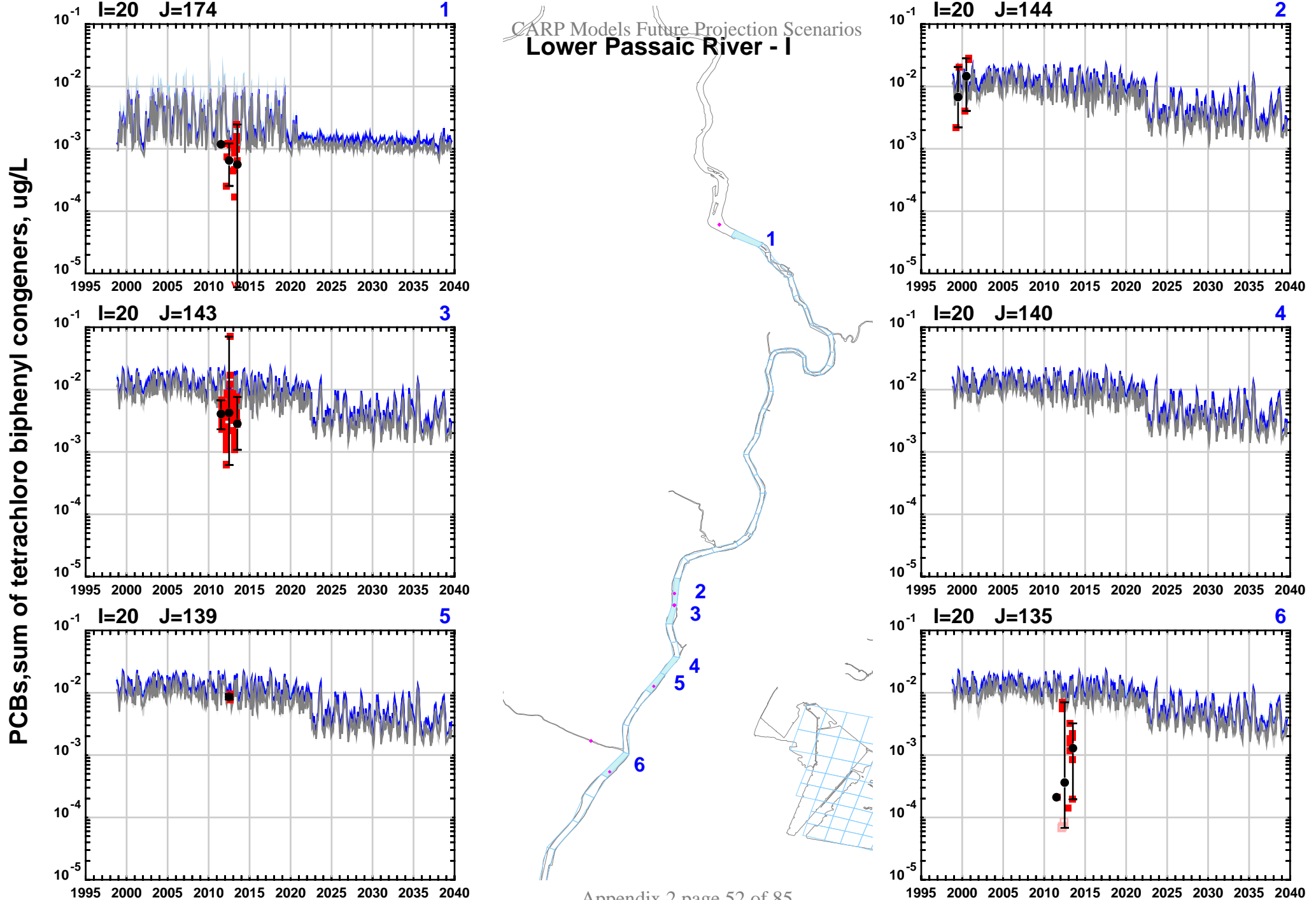
● Detect Data ● Non-Detect Data
— Model: mean and range of values in Water Column
— Model: Particulate Phase mean and range of values in Water Column
● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



● Detect Data ● Non-Detect Data
● Model: mean and range of values in Water Column
 Model: Particulate Phase mean and range of values in Water Column
● Water Column Data: yearly mean and range
● CARP2 Data

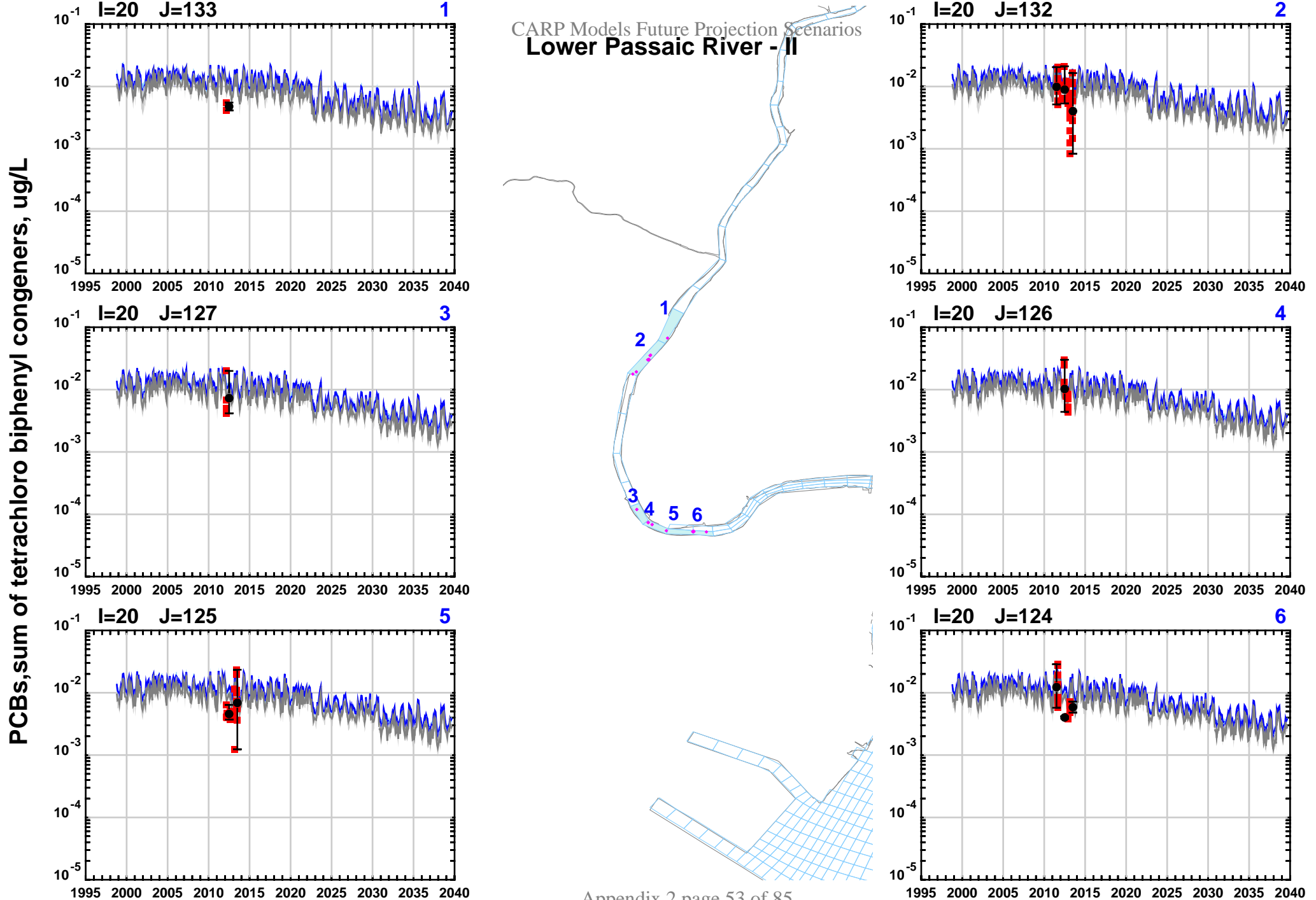
Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



● **Detect Data** ■ **Non-Detect Data**
— **Model: mean and range of values in Water Column**
— **Model: Particulate Phase mean and range of values in Water Column**

● **Water Column Data: yearly mean and range**
● **CARP2 Data**

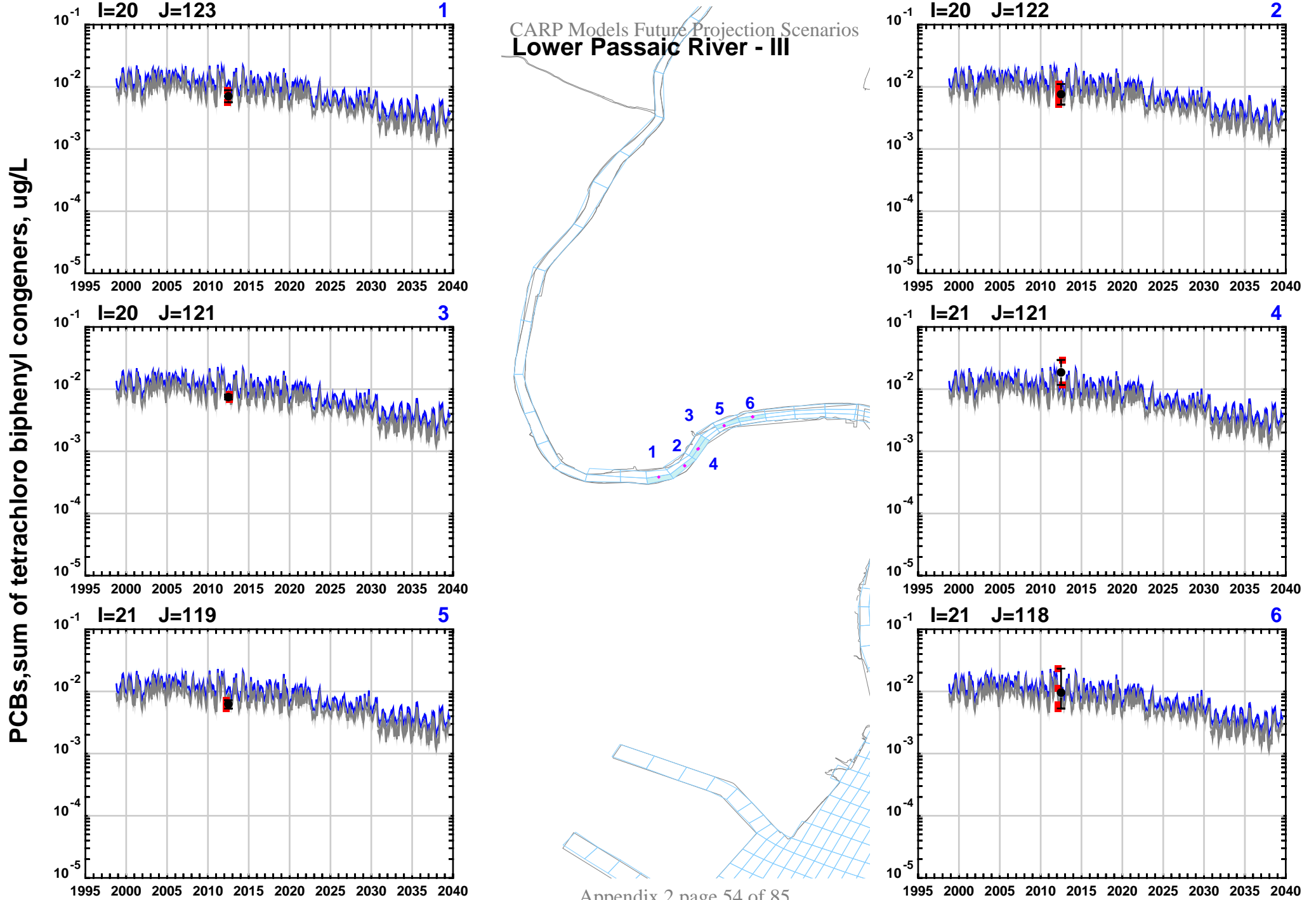
Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



Detect Data Non-Detect Data
Model: mean and range of values in Water Column
Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range
● CARP2 Data

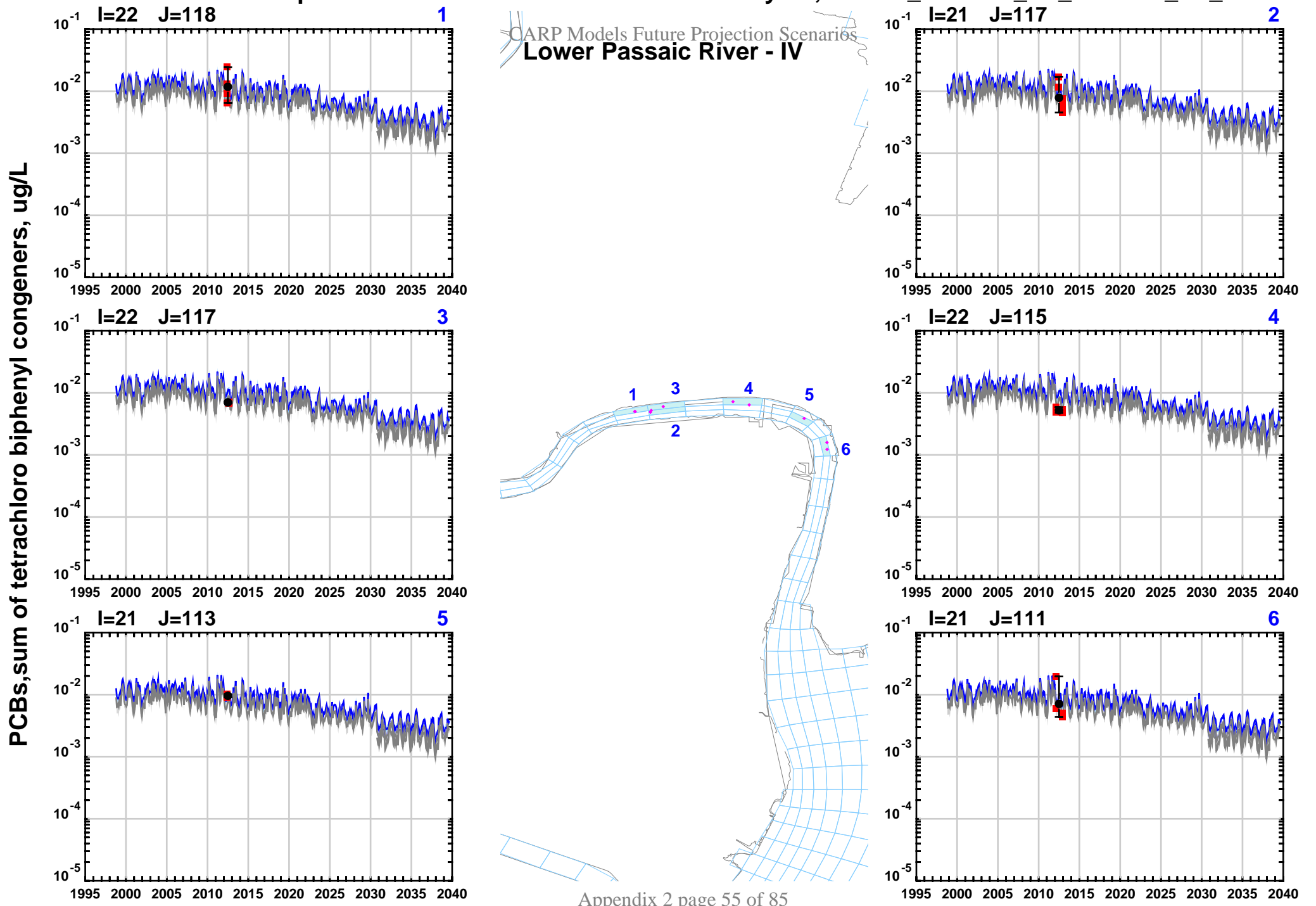
Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



CARP Models Future Projection Scenarios
Lower Passaic River - III

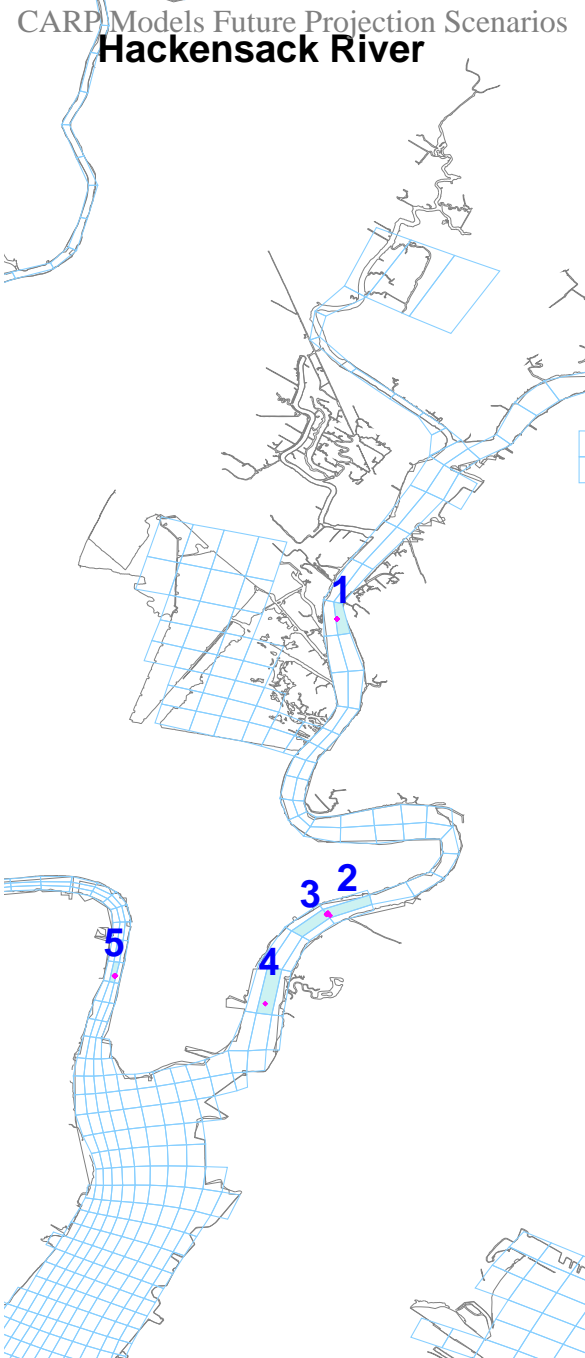
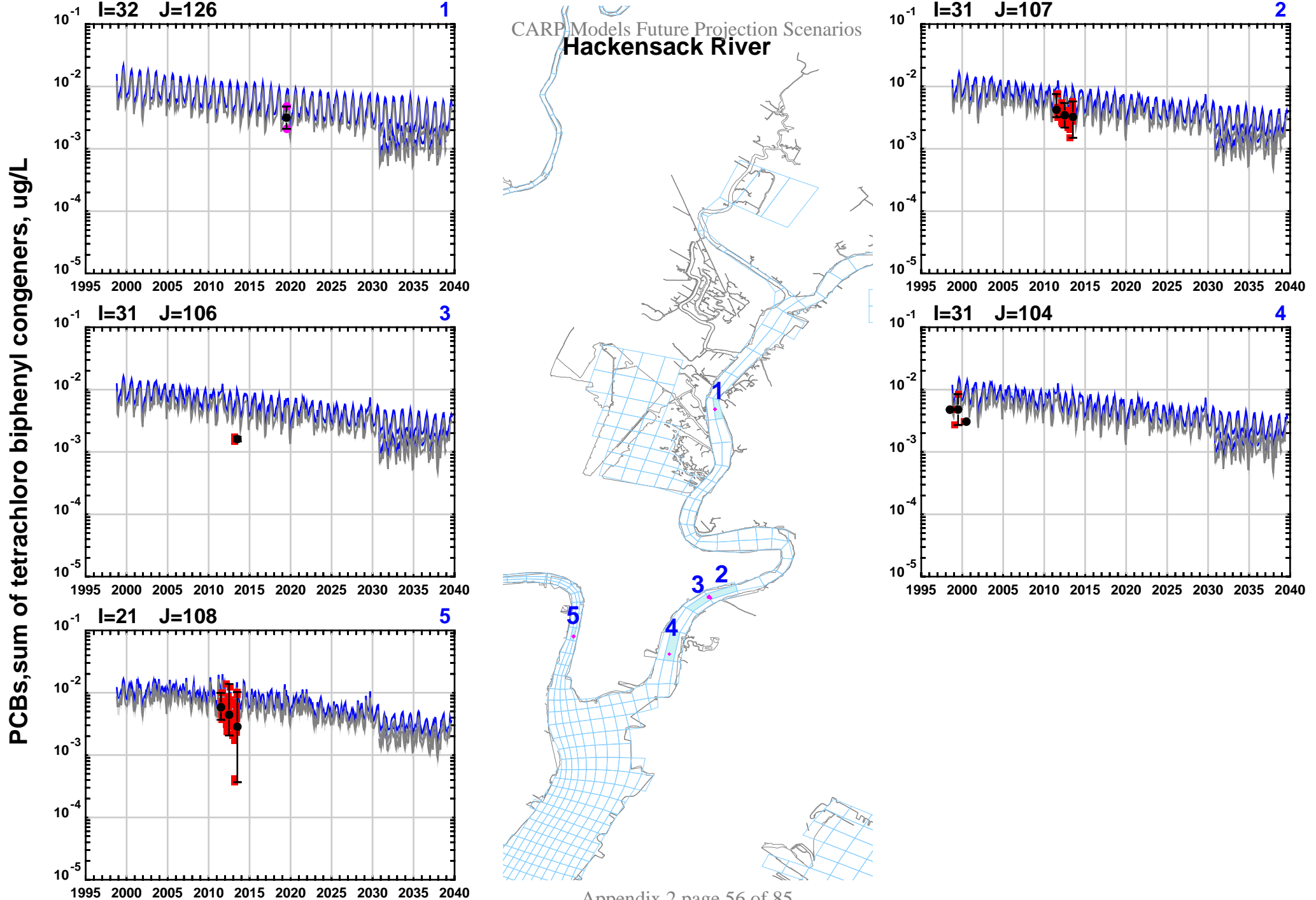
● Detect Data
 ■ Non-Detect Data
 ● Model: mean and range of values in Water Column
 ● Water Column Data: yearly mean and range
■ Model: Particulate Phase mean and range of values in Water Column
 ● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



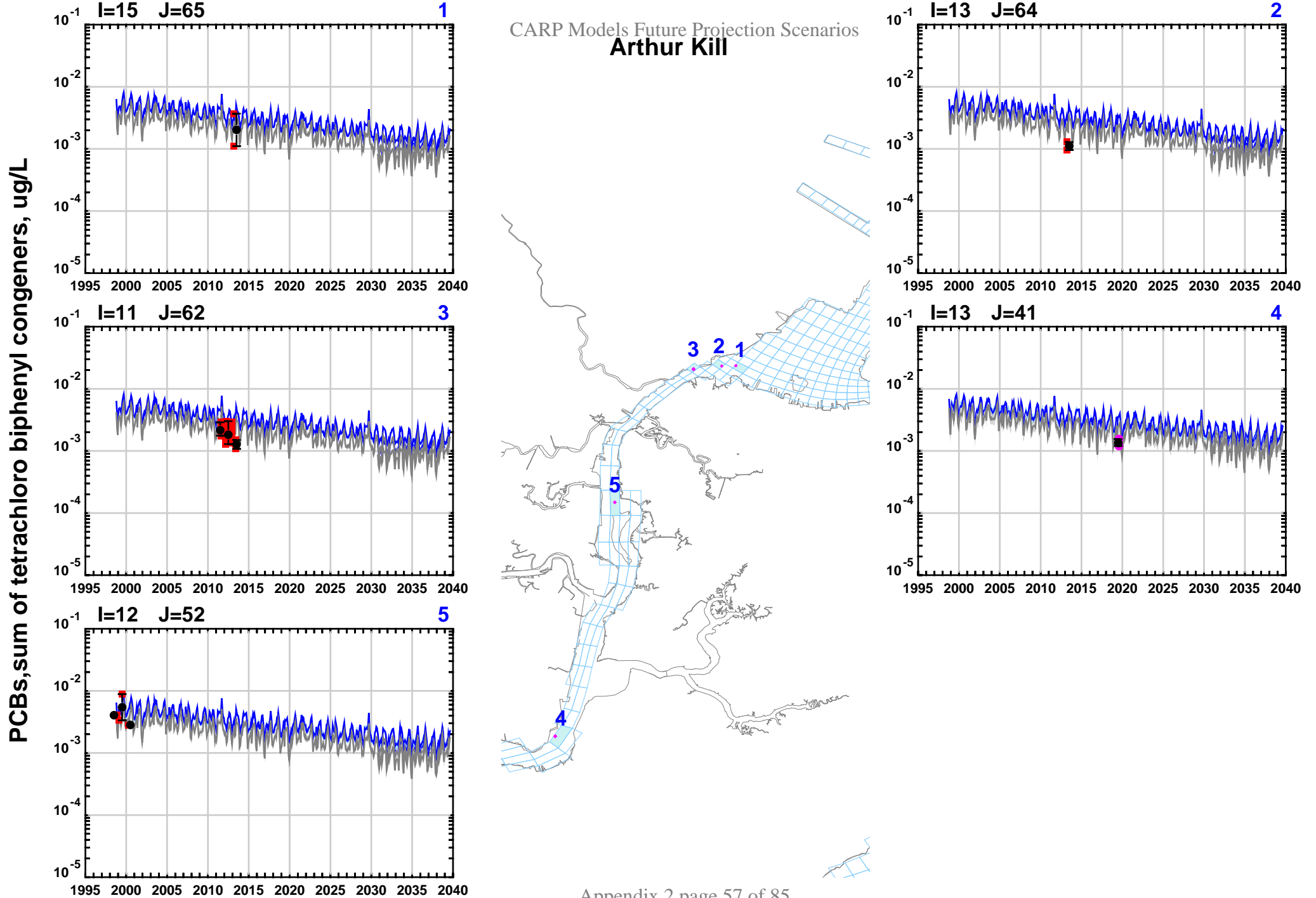
● **Detect Data** ● **Non-Detect Data**
— **Model: mean and range of values in Water Column**
— **Model: Particulate Phase mean and range of values in Water Column**
● **Water Column Data: yearly mean and range**
● **CARP2 Data**

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

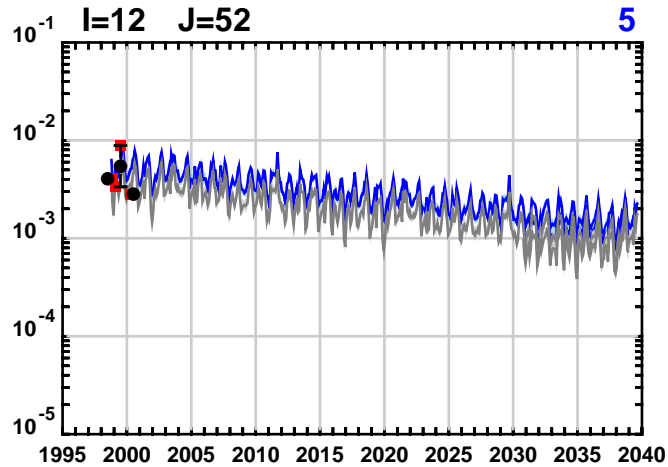
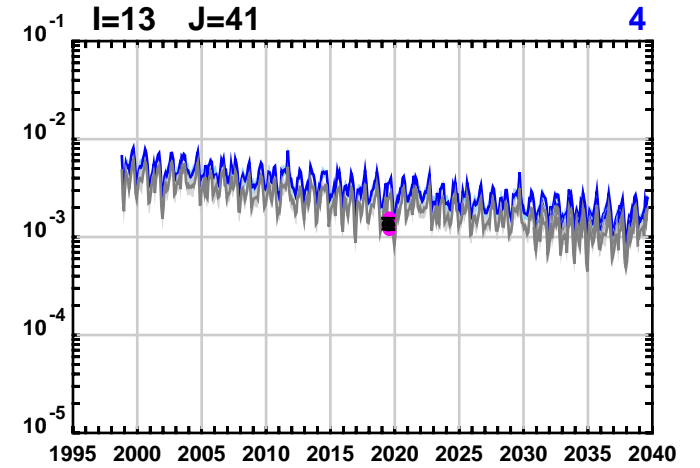
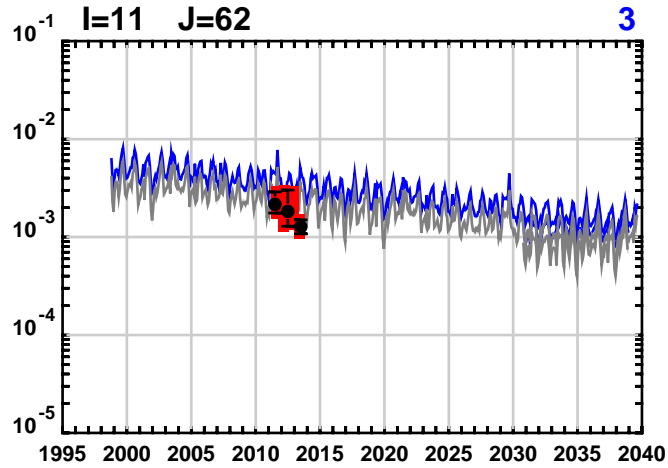
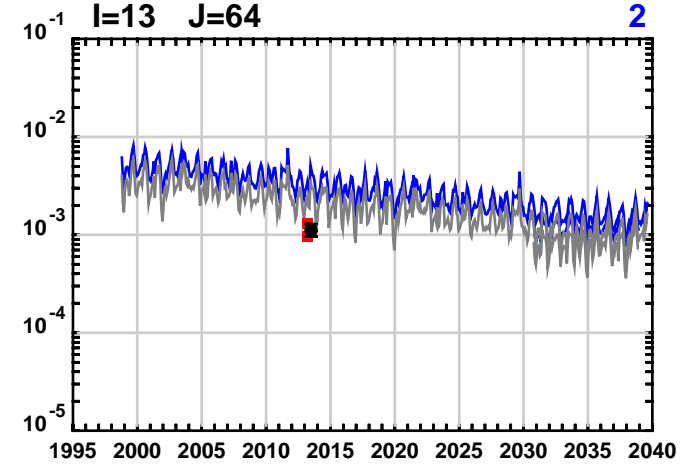
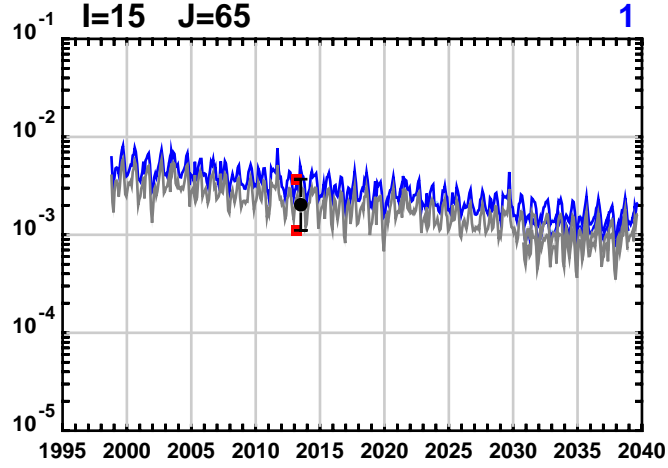


● Detect Data ■ Non-Detect Data
— Model: mean and range of values in Water Column
— Model: Particulate Phase mean and range of values in Water Column
● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



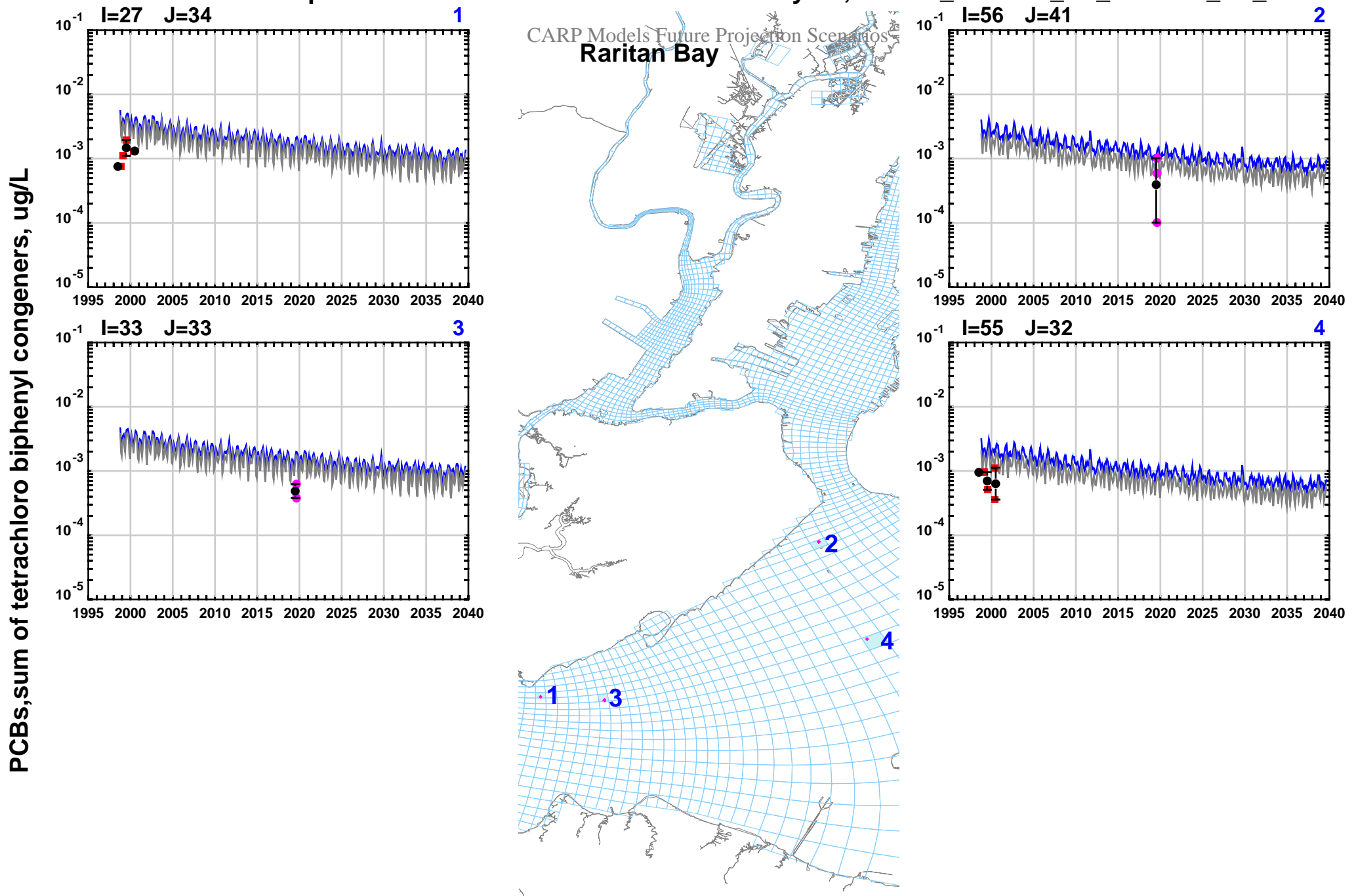
PCBs, sum of tetrachloro biphenyl congeners, ug/L



Detect Data **Non-Detect Data**
Model: mean and range of values in Water Column
Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range
 ● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

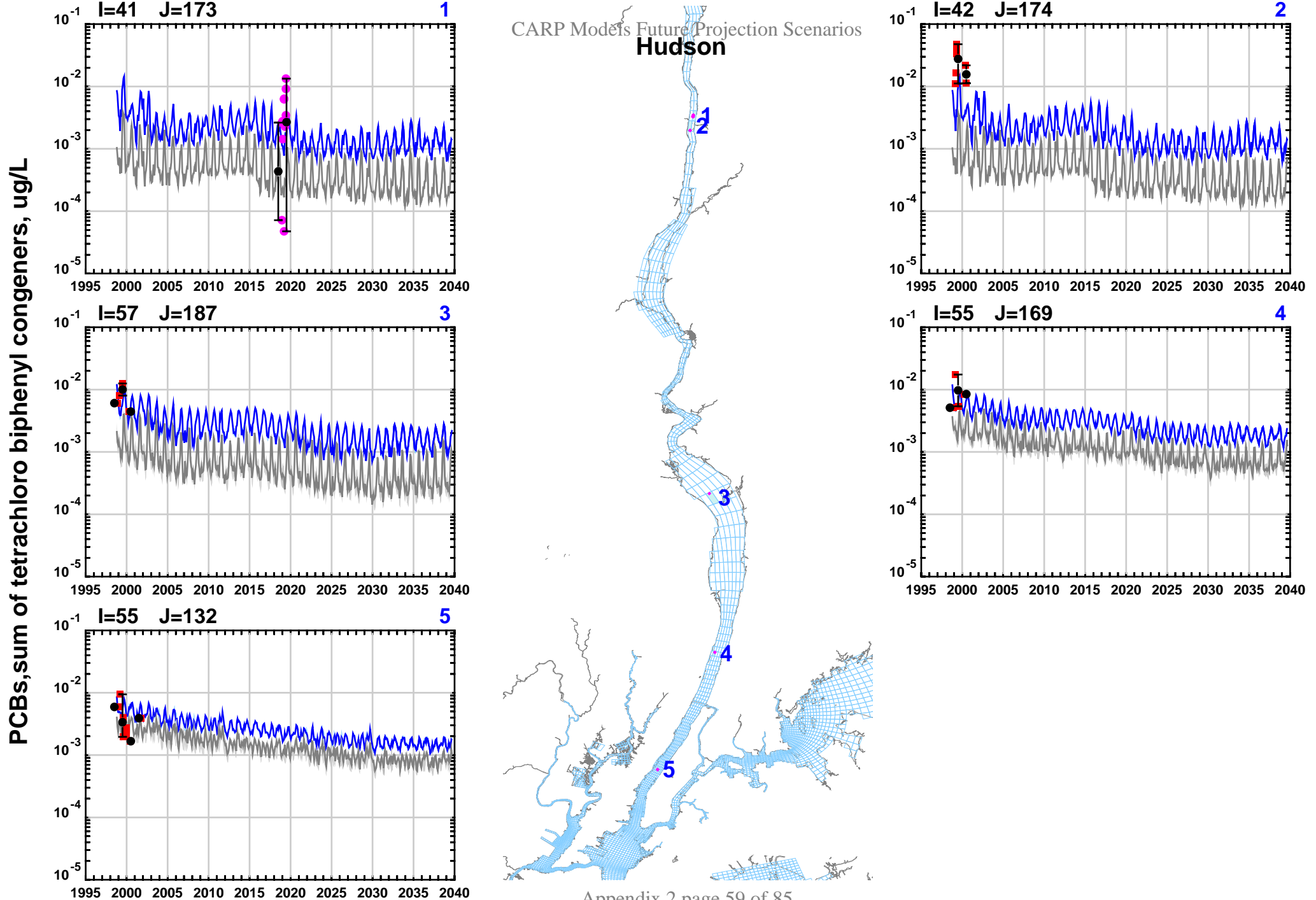


PCBs, sum of tetrachloro biphenyl congeners, ug/L

Detect Data **Non-Detect Data**
Model: mean and range of values in Water Column
 Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range
 ● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



CARP Models Future Projection Scenarios
Hudson

PCBs, sum of tetrachloro biphenyl congeners, ug/L

1 I=41 J=173

2 I=42 J=174

3 I=57 J=187

4 I=55 J=169

5 I=55 J=132

Detect Data **Non-Detect Data**

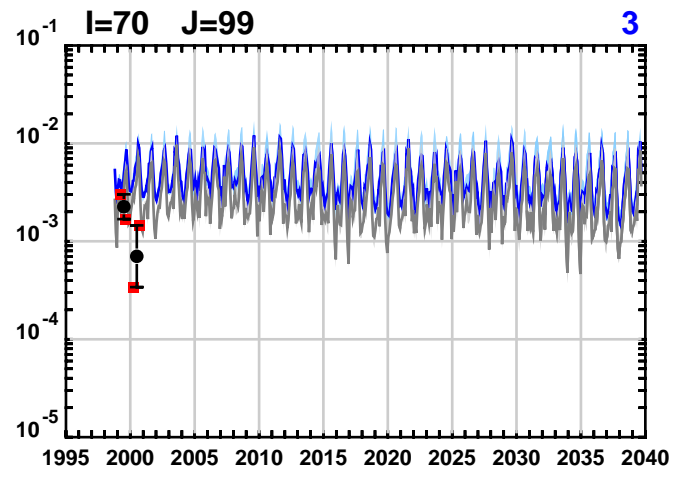
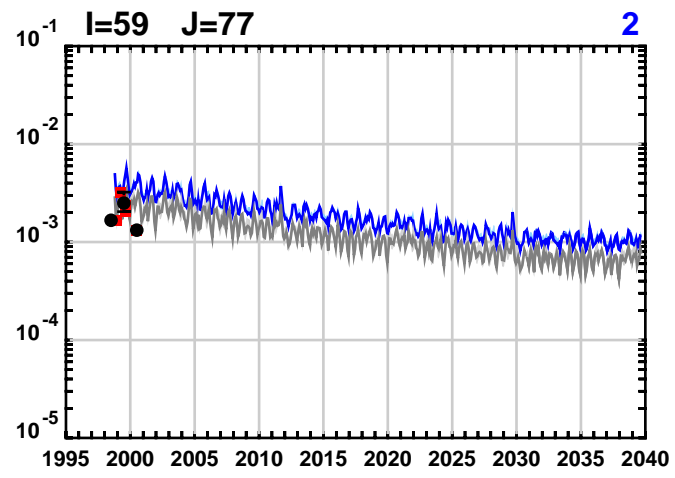
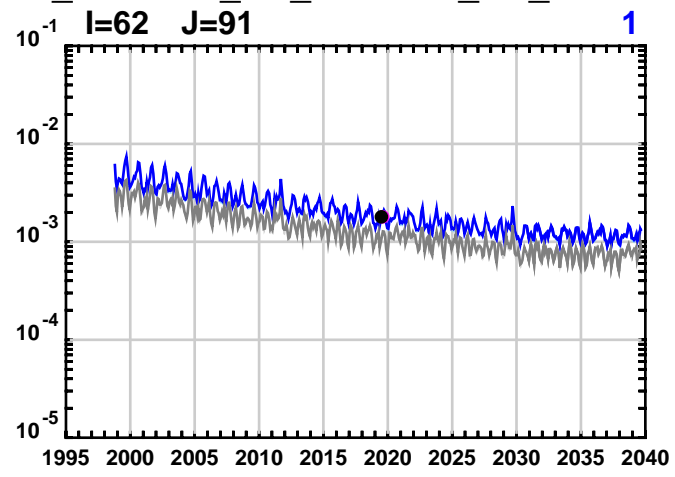
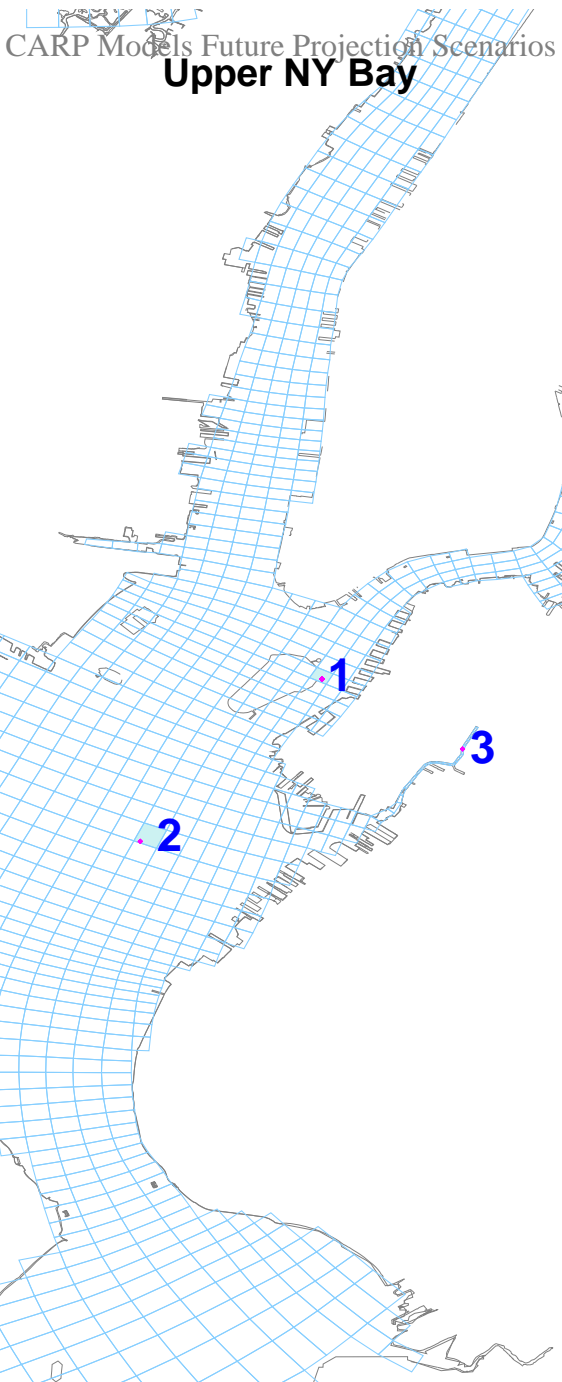
Model: mean and range of values in Water Column

Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range

● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



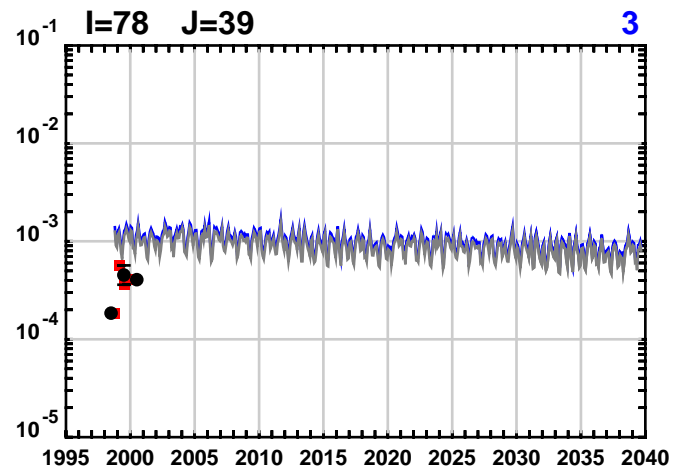
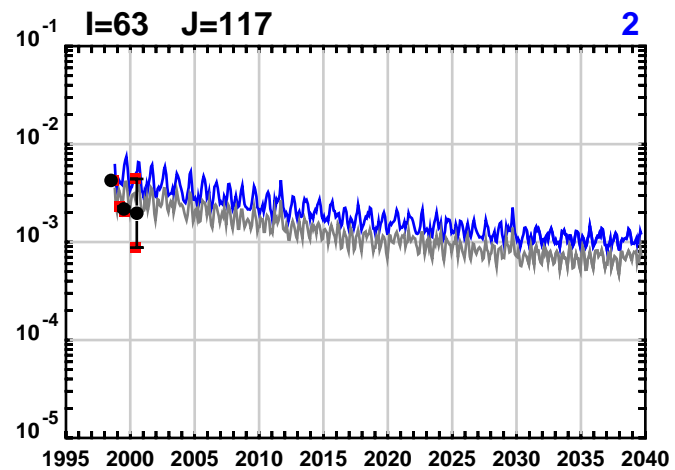
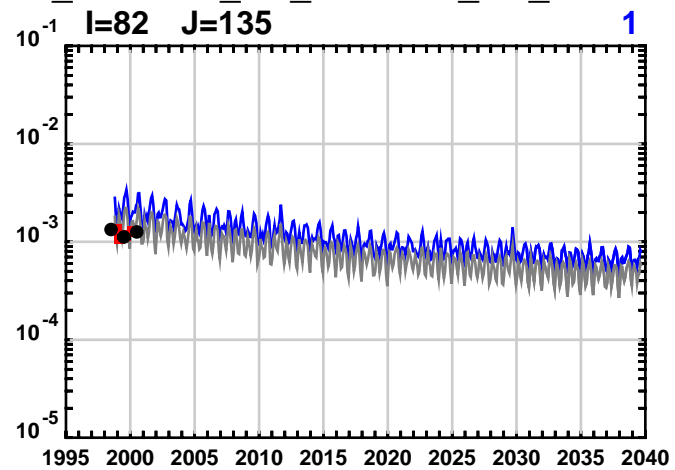
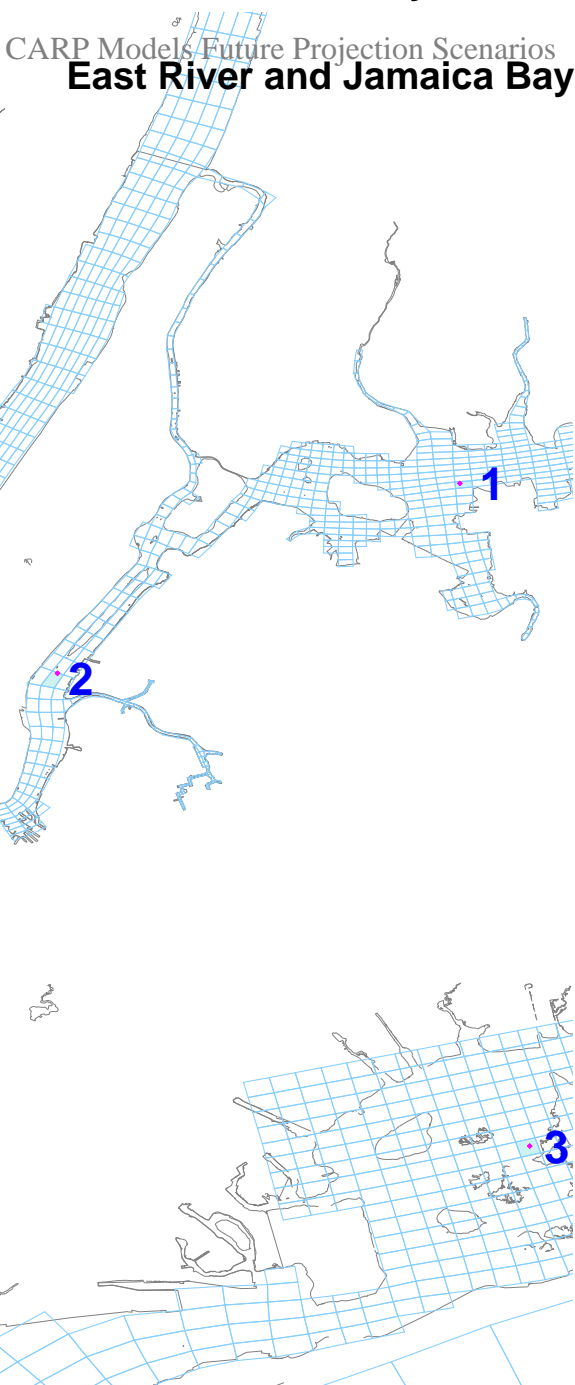
PCBs, sum of tetrachloro biphenyl congeners, ug/L

Detect Data
Model: mean and range of values in Water Column
 Model: Particulate Phase mean and range of values in Water Column

Non-Detect Data

● Water Column Data: yearly mean and range
 ● CARP2 Data

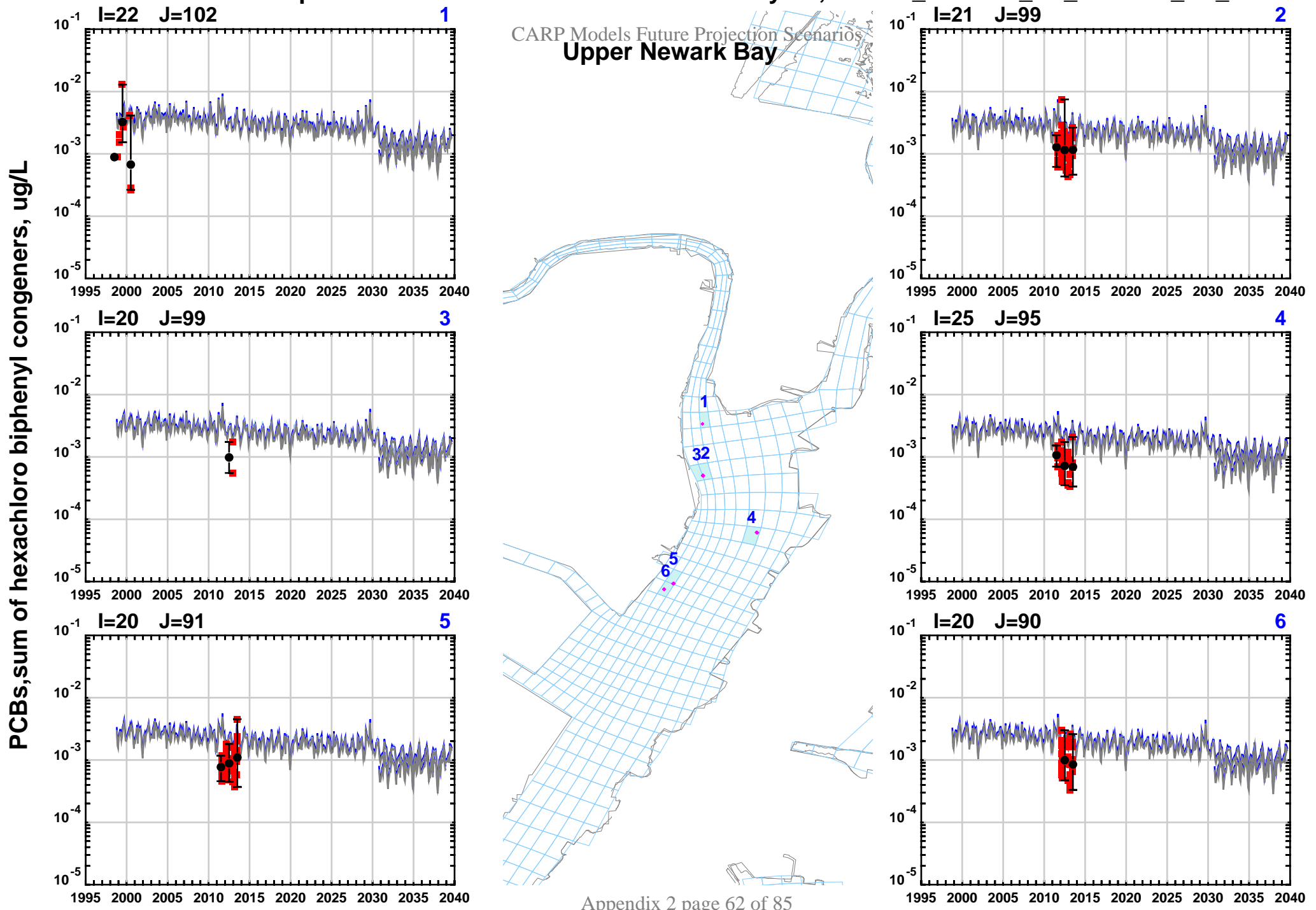
PCBs, sum of tetrachloro biphenyl congeners, ug/L



Detect Data **Non-Detect Data**
Model: mean and range of values in Water Column
 Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range
 ● CARP2 Data

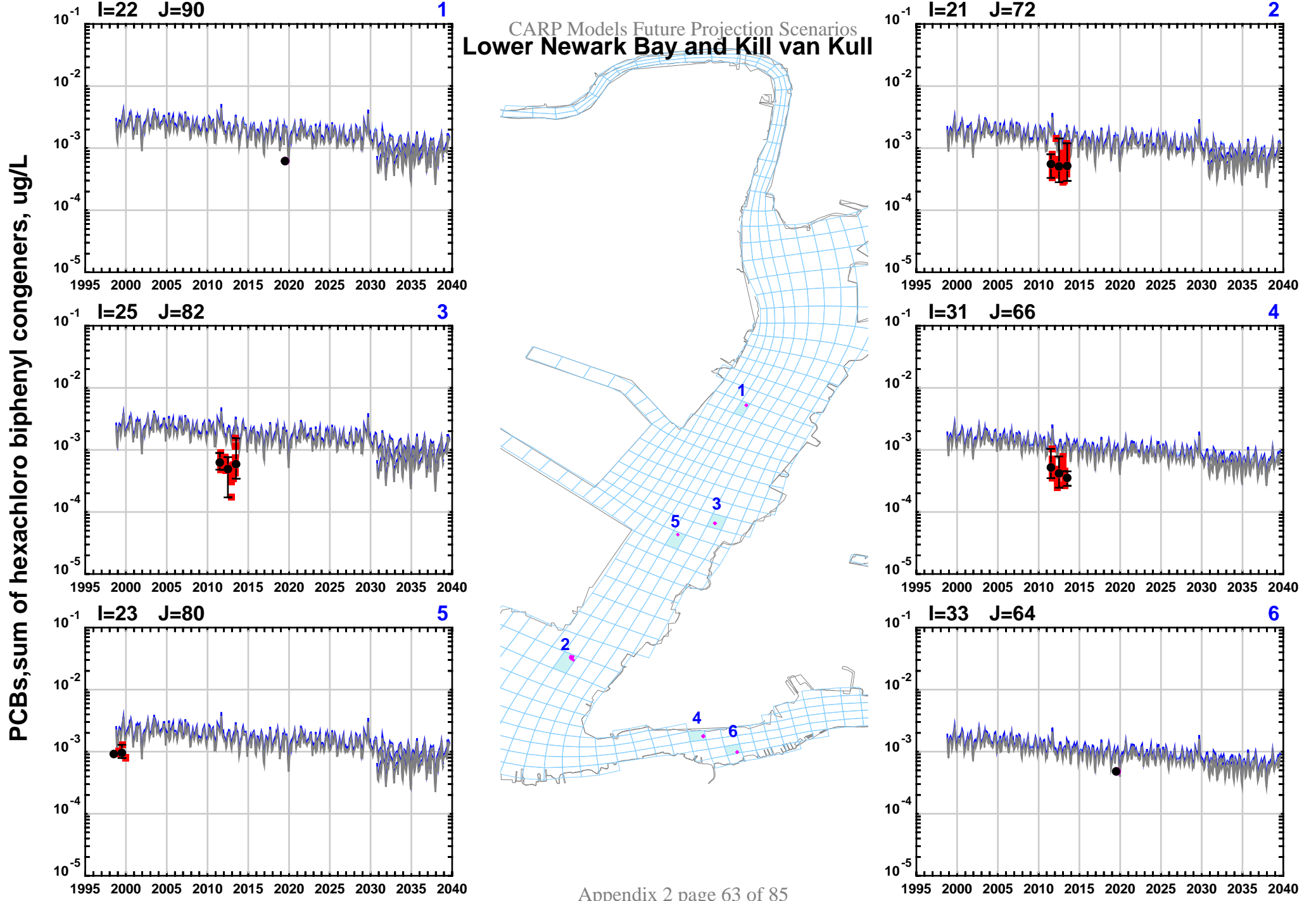
Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



● **Detect Data** ■ **Non-Detect Data**
■ **Model: mean and range of values in Water Column**
■ **Model: Particulate Phase mean and range of values in Water Column**

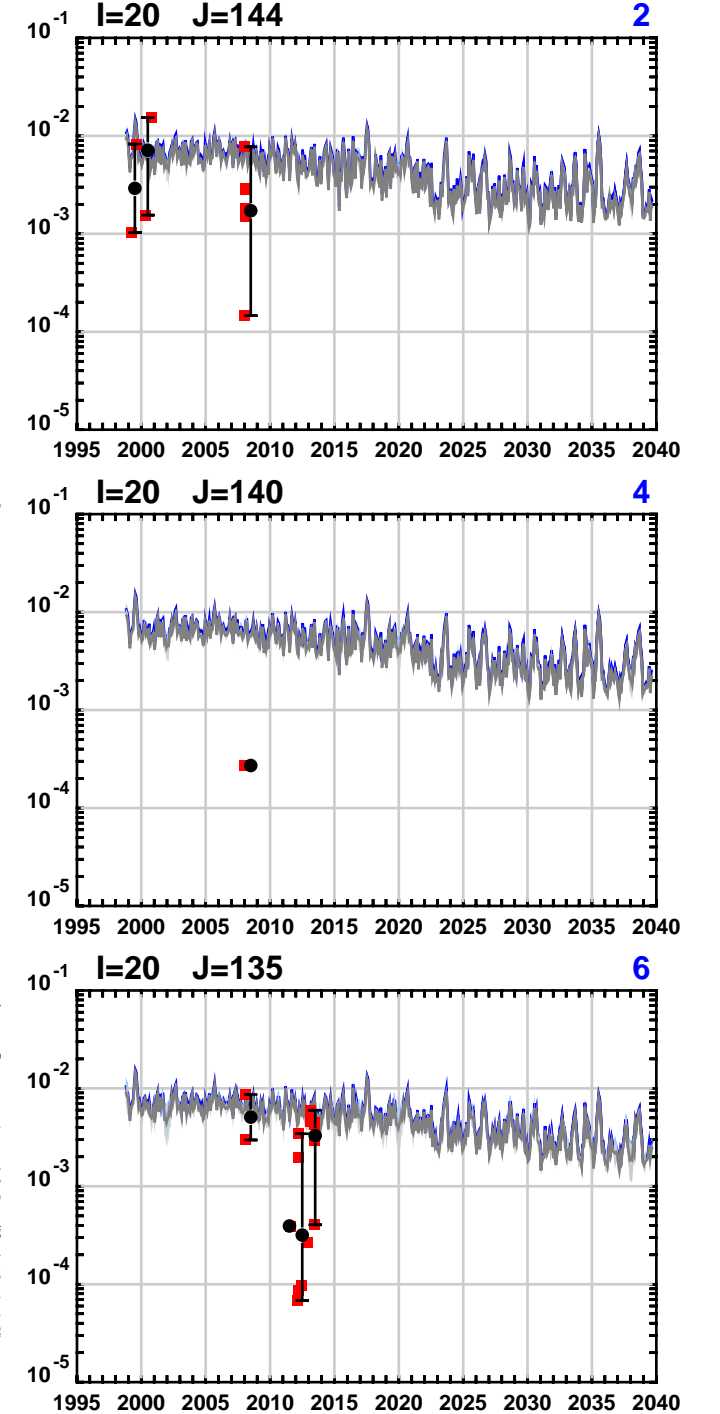
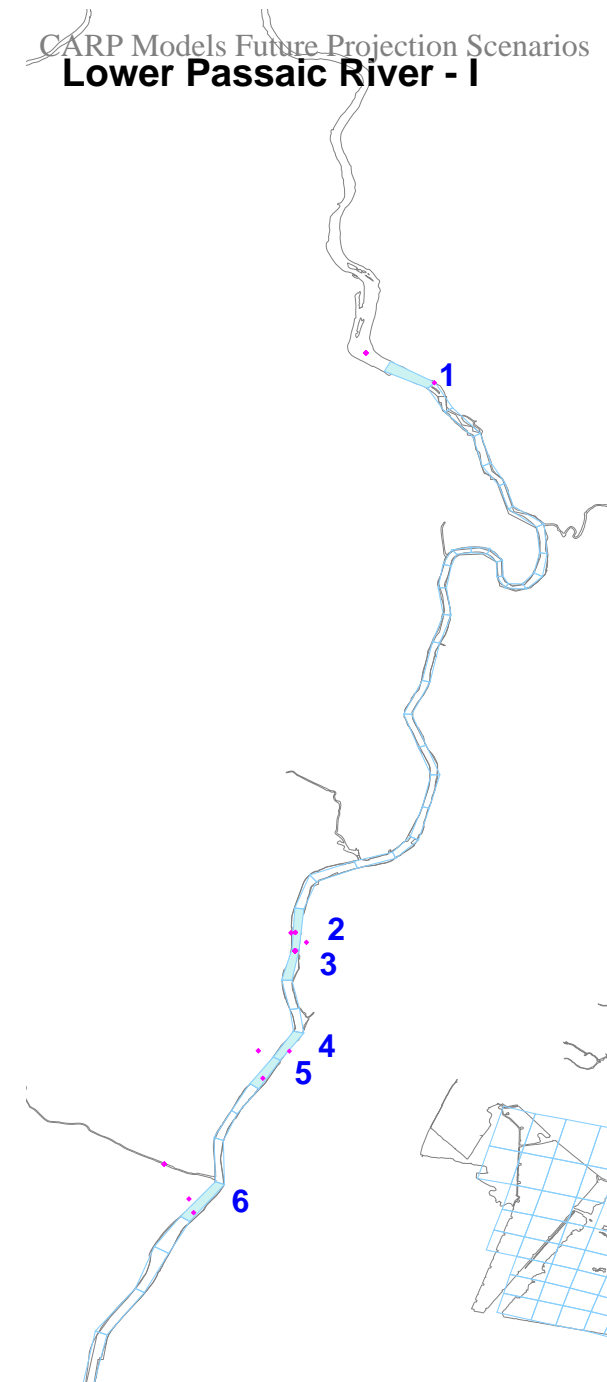
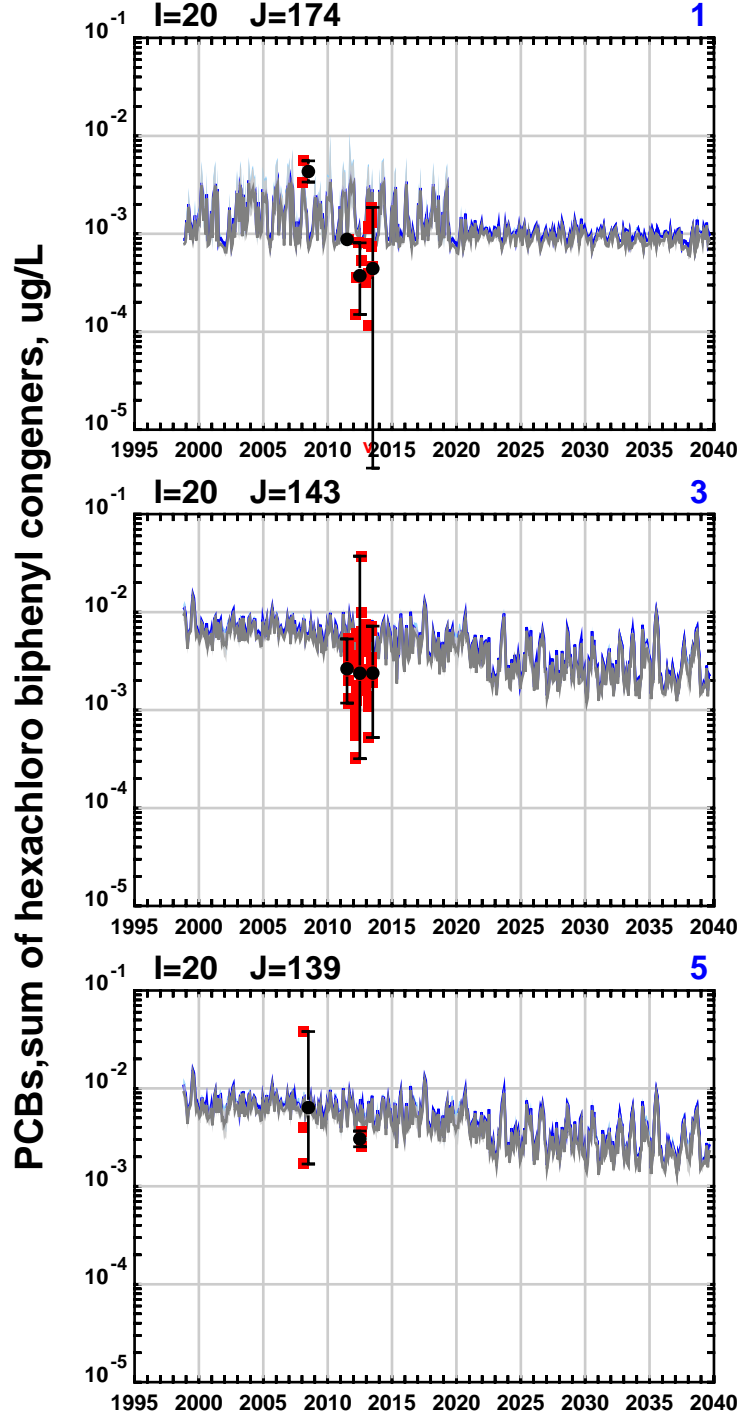
● **Water Column Data: yearly mean and range**
● **CARP2 Data**

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



● Detect Data ● Non-Detect Data
— Model: mean and range of values in Water Column
— Model: Particulate Phase mean and range of values in Water Column
● Water Column Data: yearly mean and range
● CARP2 Data

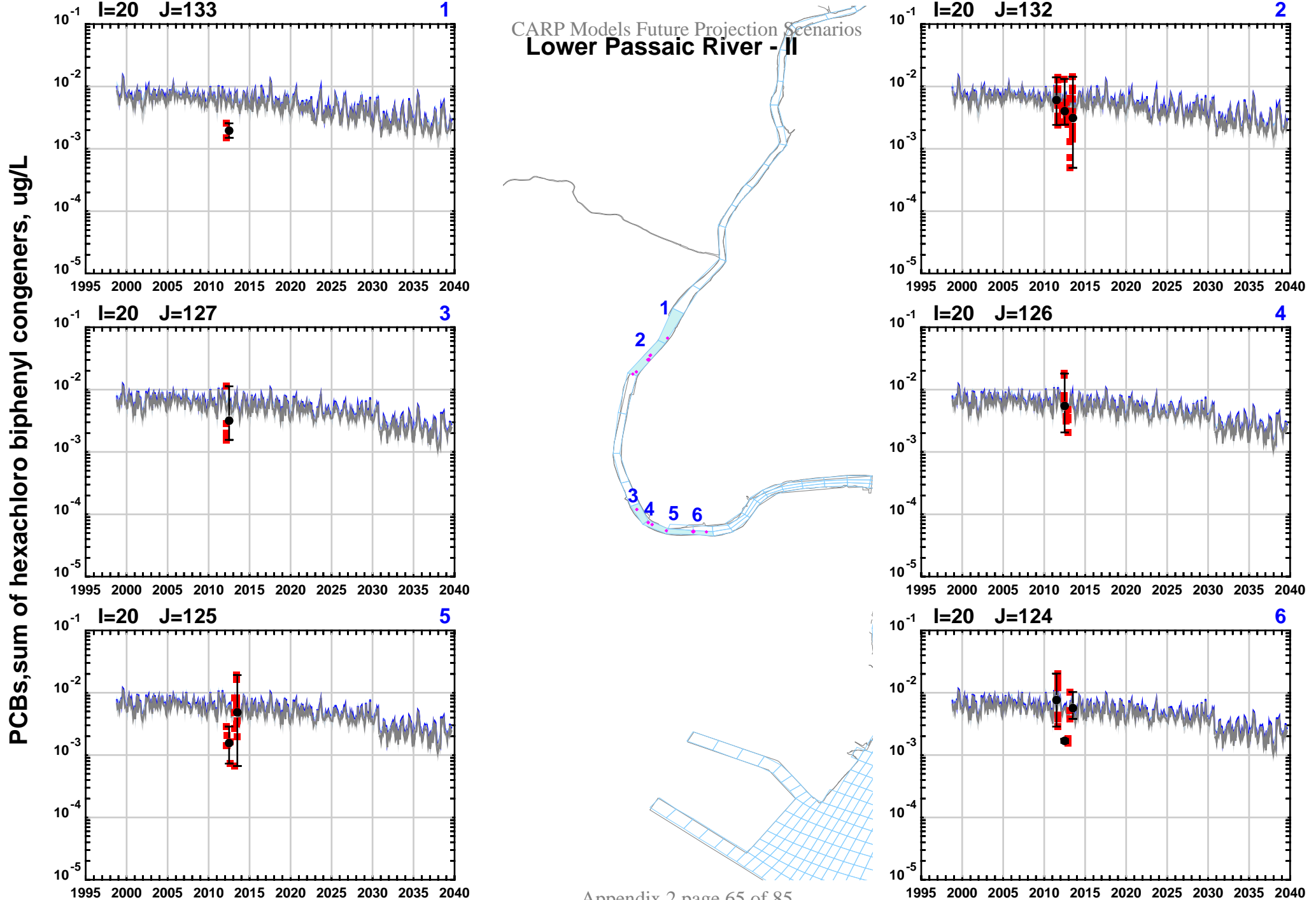
Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



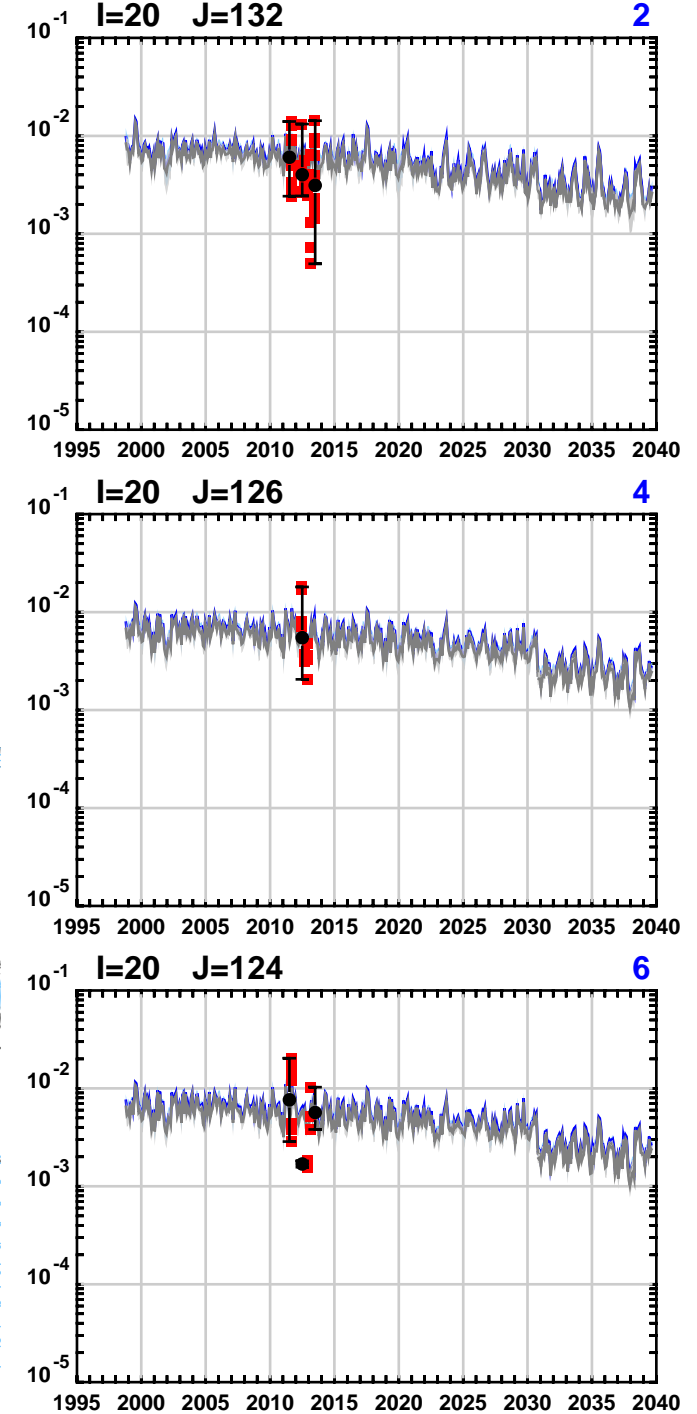
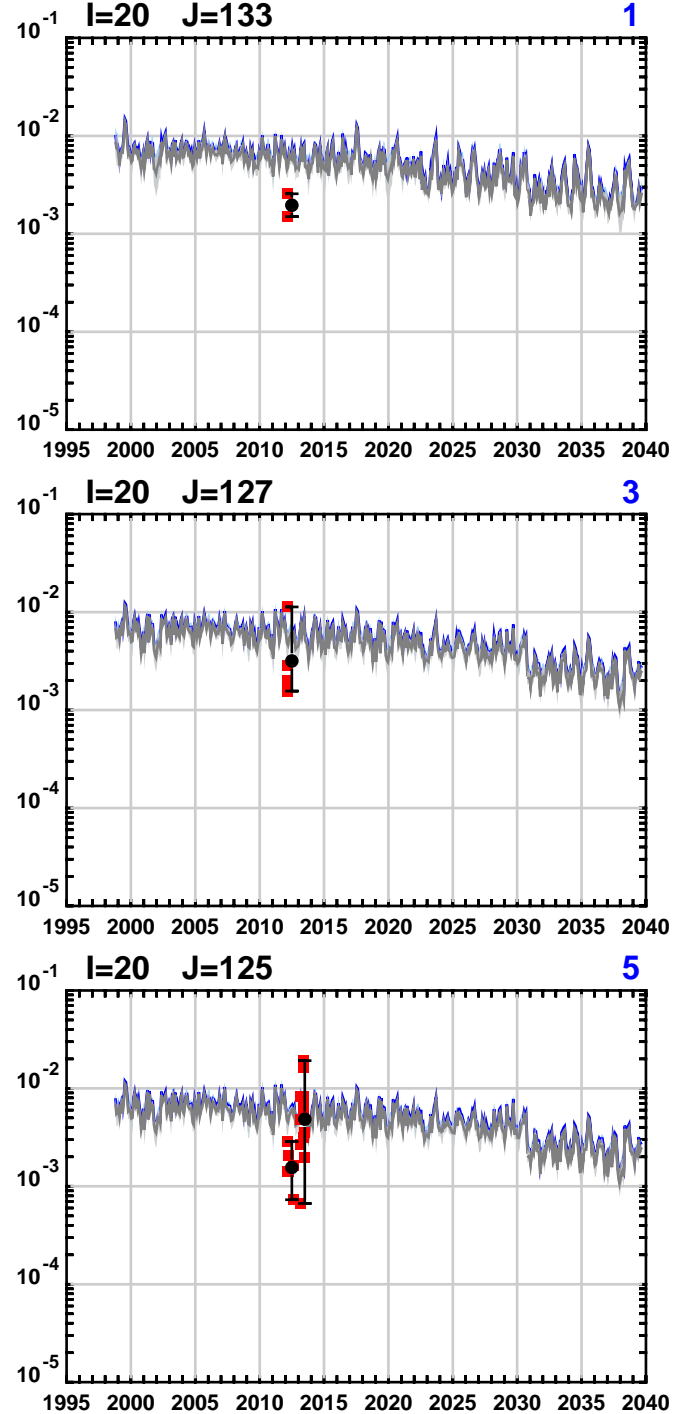
● Detect Data ■ Non-Detect Data
— Model: mean and range of values in Water Column
— Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



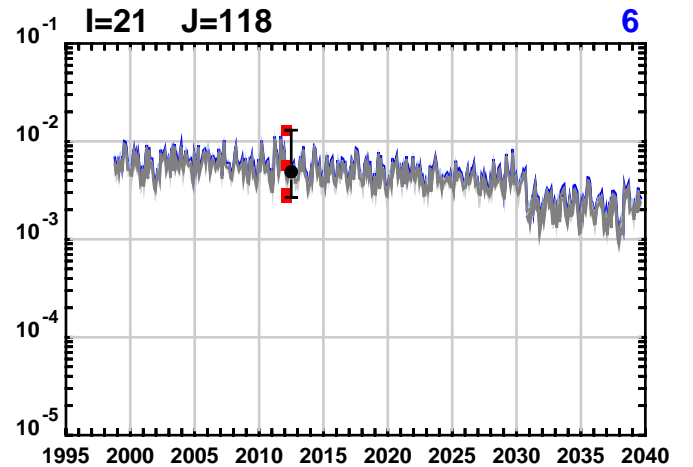
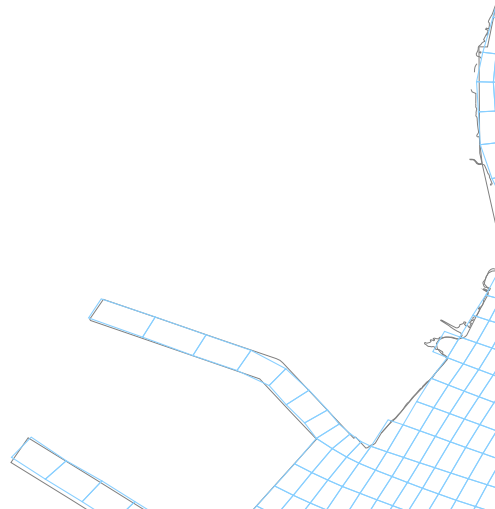
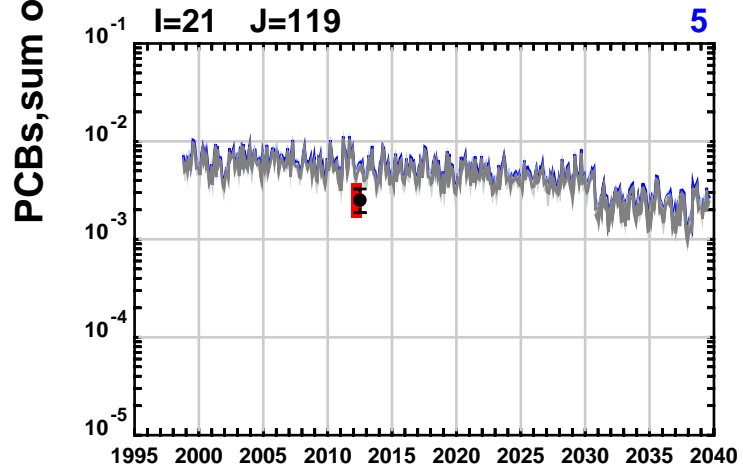
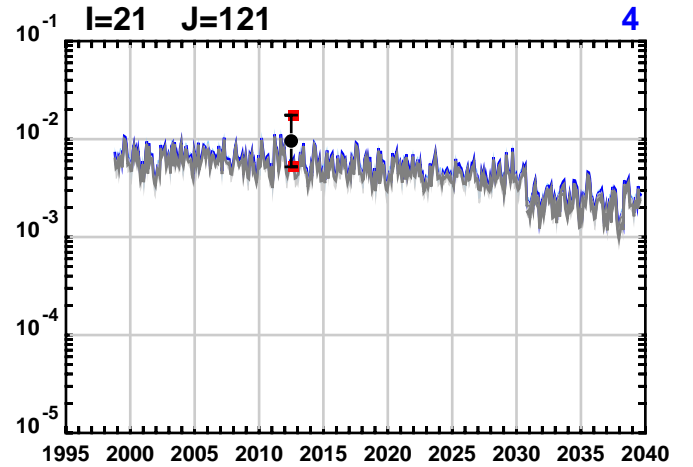
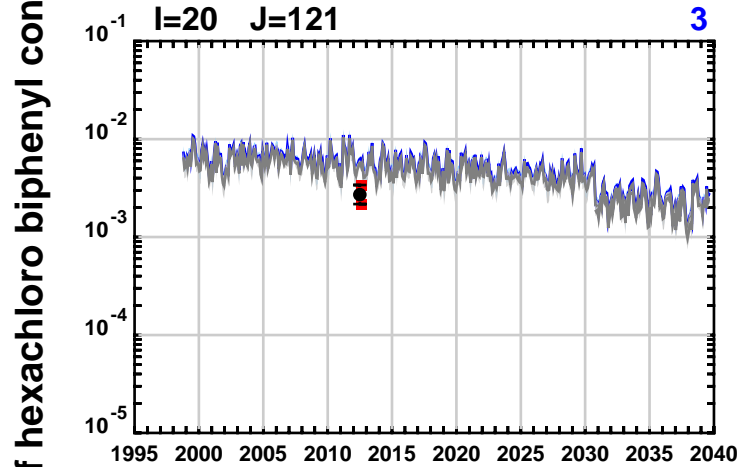
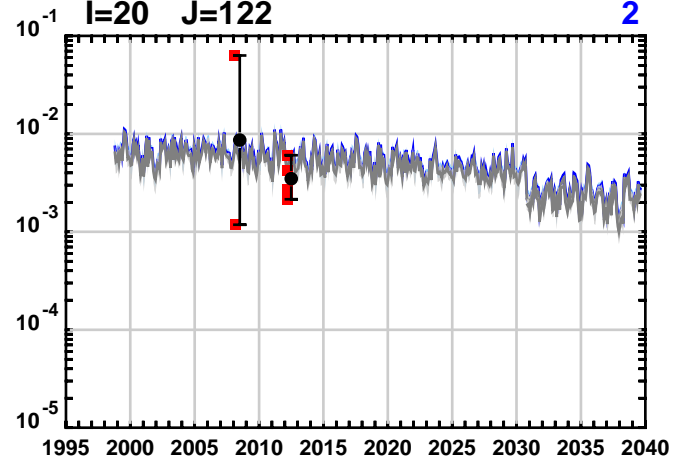
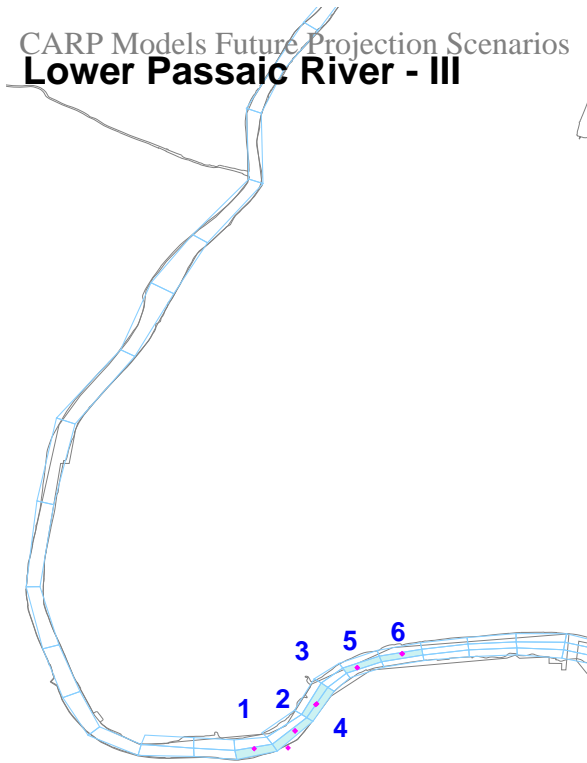
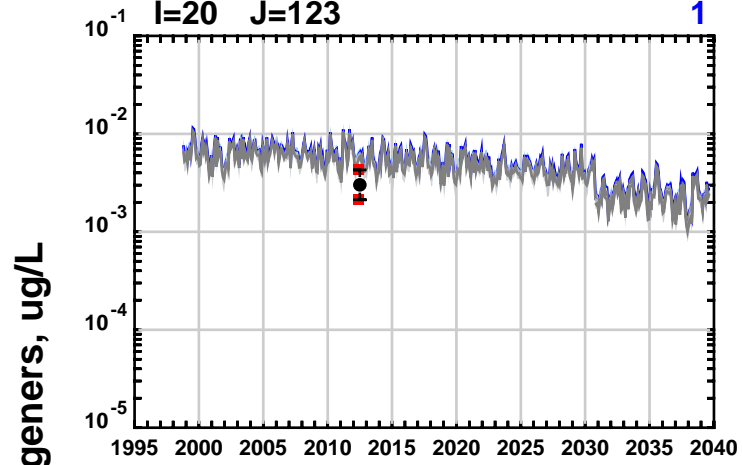
PCBs, sum of hexachloro biphenyl congeners, ug/L



Detect Data **Non-Detect Data**
Model: mean and range of values in Water Column
 Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range
 ● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



Detect Data

Non-Detect Data

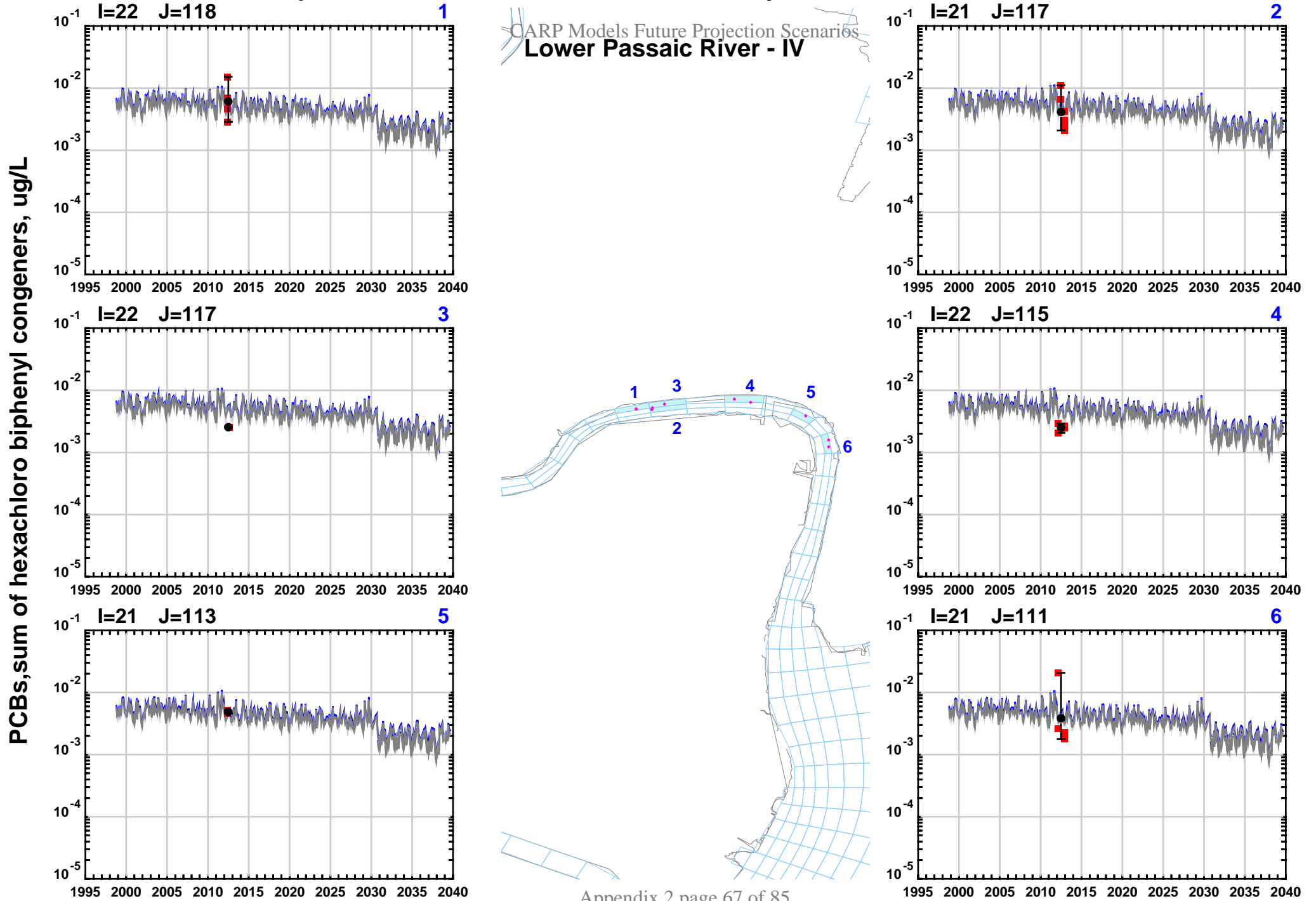
Model: mean and range of values in Water Column

Model: Particulate Phase mean and range of values in Water Column

● **Water Column Data: yearly mean and range**

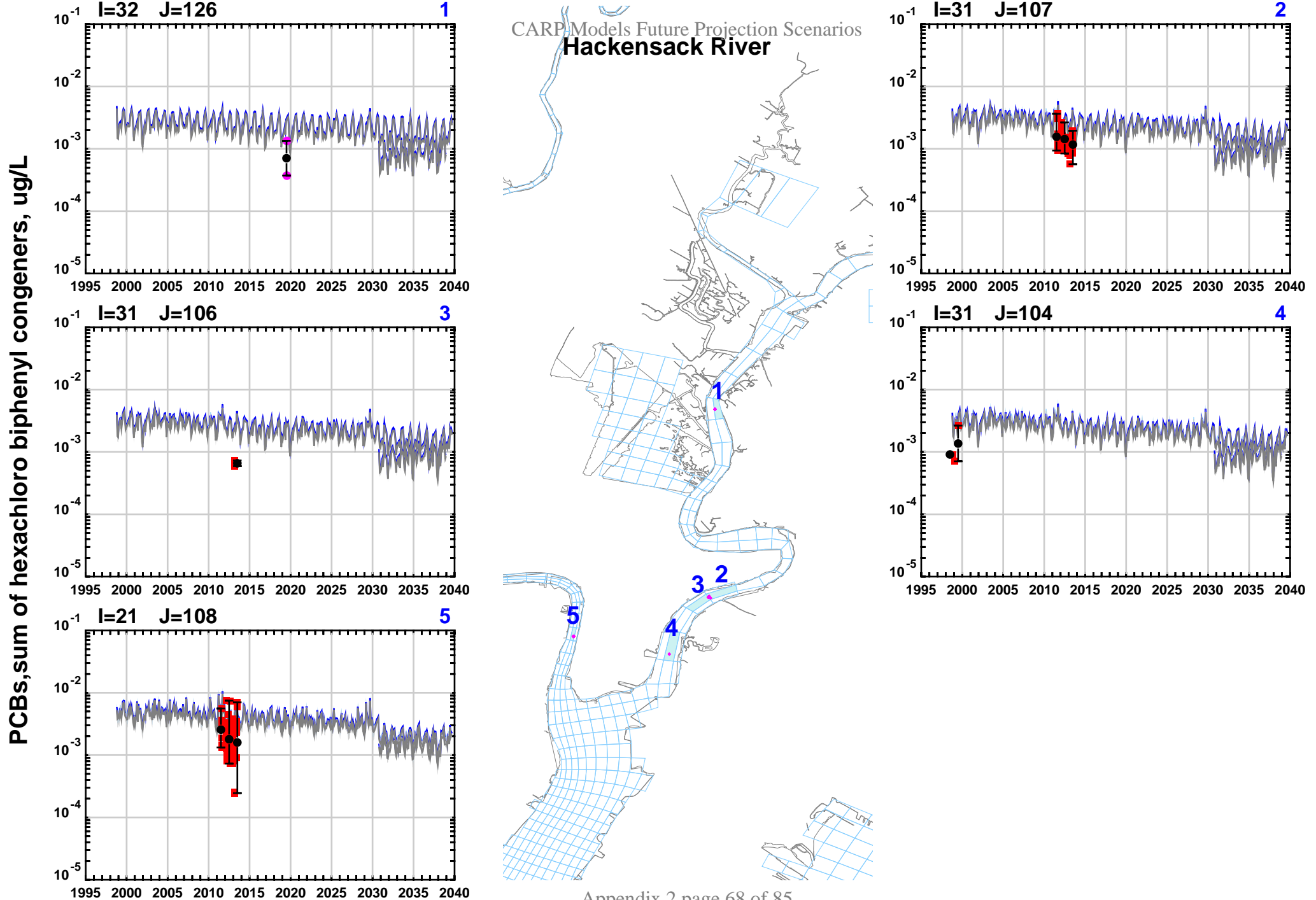
● **CARP2 Data**

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



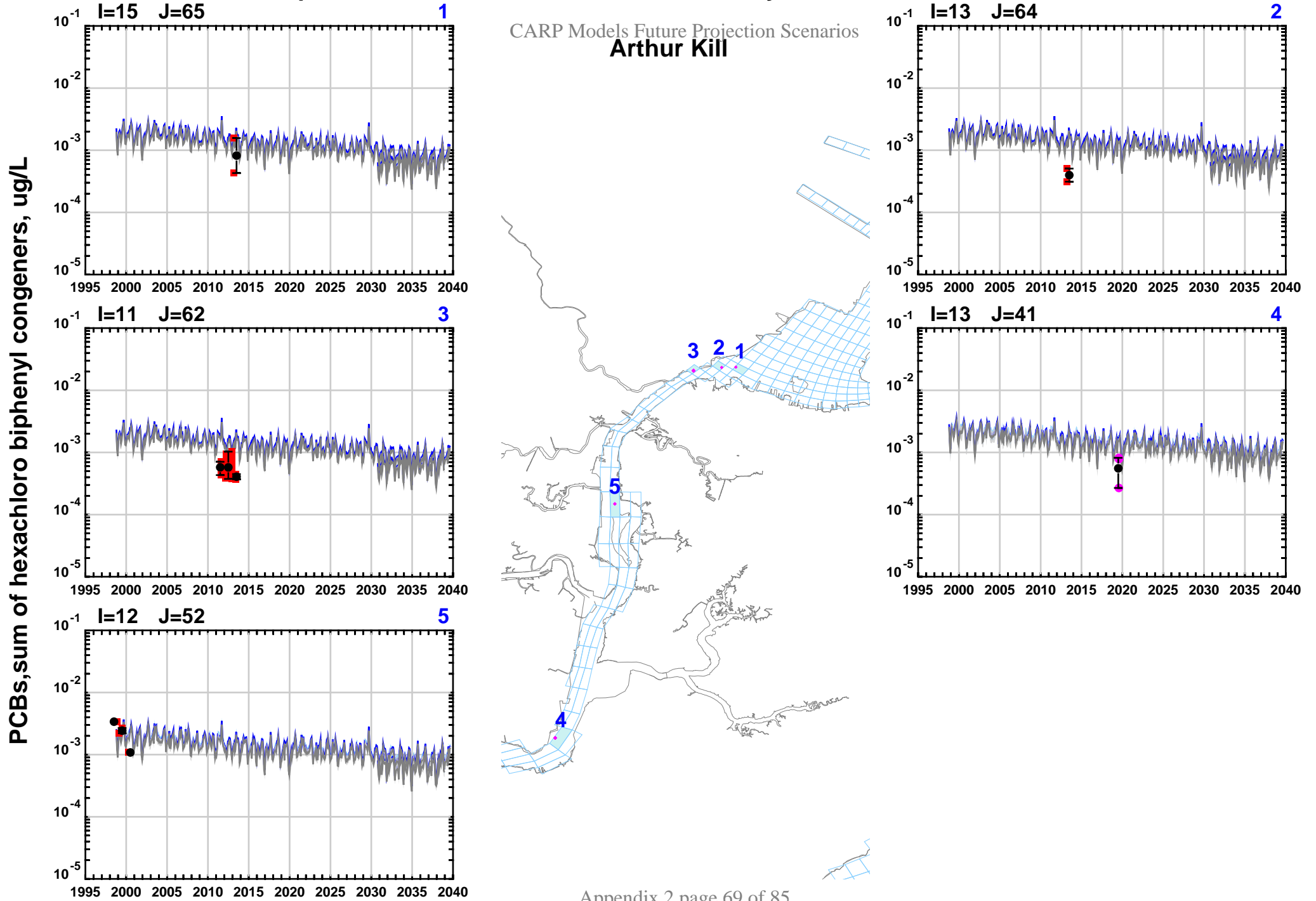
● Detect Data
 ● Non-Detect Data
— Model: mean and range of values in Water Column
— Model: Particulate Phase mean and range of values in Water Column
● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



● Detect Data ■ Non-Detect Data
— Model: mean and range of values in Water Column
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● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



Detect Data

Non-Detect Data

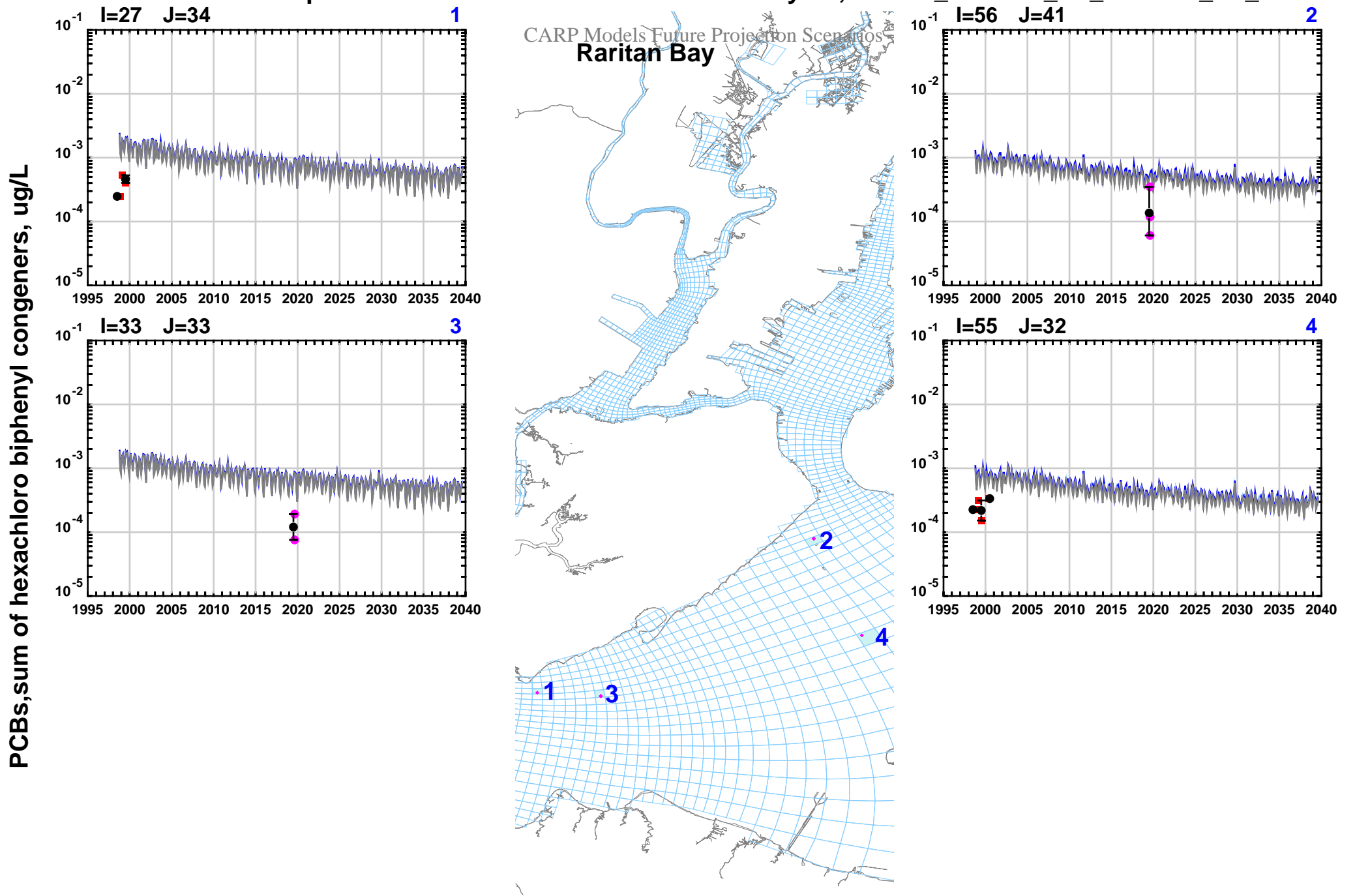
Model: mean and range of values in Water Column

Model: Particulate Phase mean and range of values in Water Column

● **Water Column Data: yearly mean and range**

● **CARP2 Data**

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

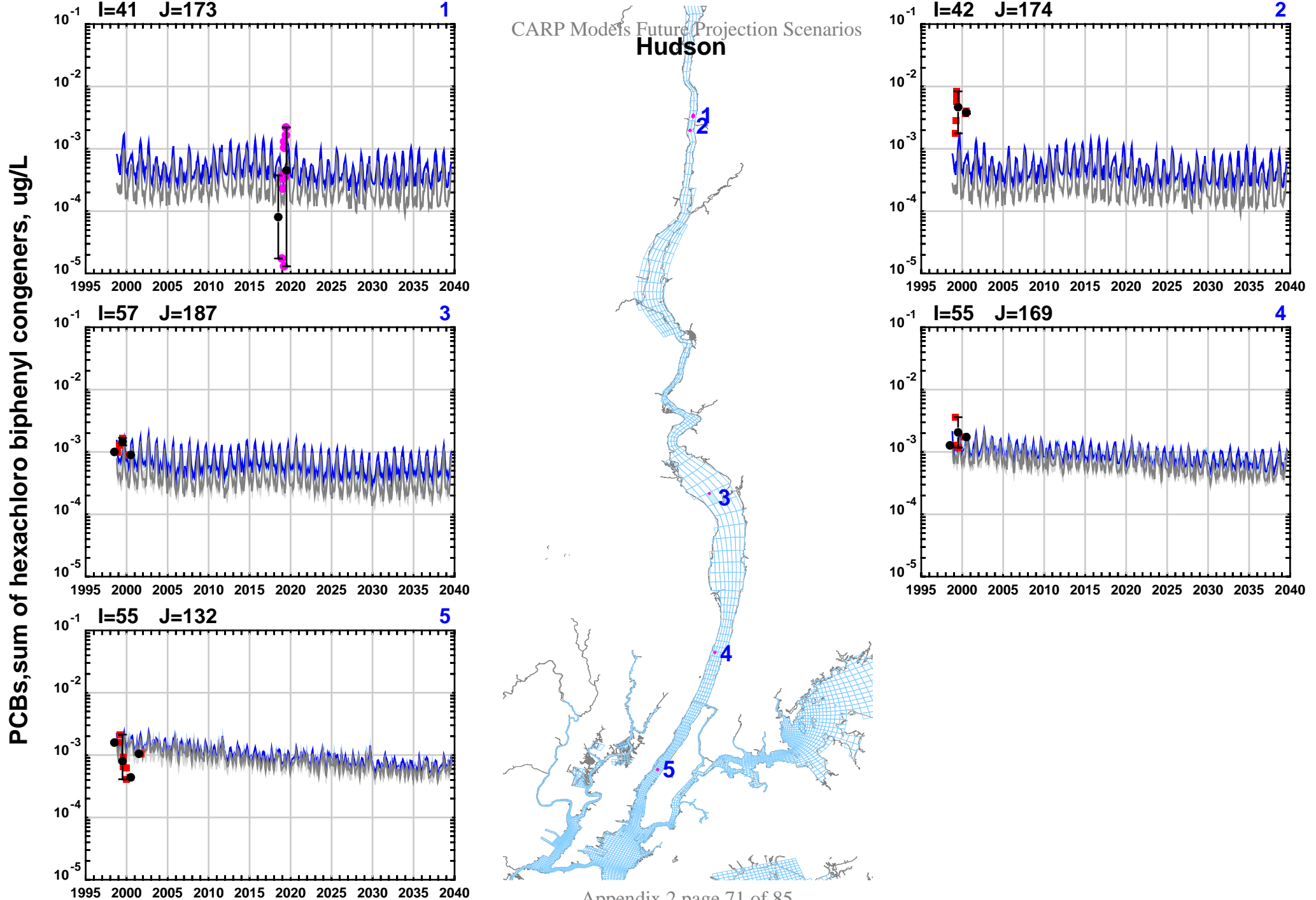


Detect Data
Model: mean and range of values in Water Column
 Model: Particulate Phase mean and range of values in Water Column

Non-Detect Data

● Water Column Data: yearly mean and range
 ● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



CARP Models Future Projection Scenarios
Hudson

PCBs, sum of hexachloro biphenyl congeners, ug/L

1 I=41 J=173

2 I=42 J=174

3 I=57 J=187

4 I=55 J=169

5 I=55 J=132

Detect Data **Non-Detect Data**

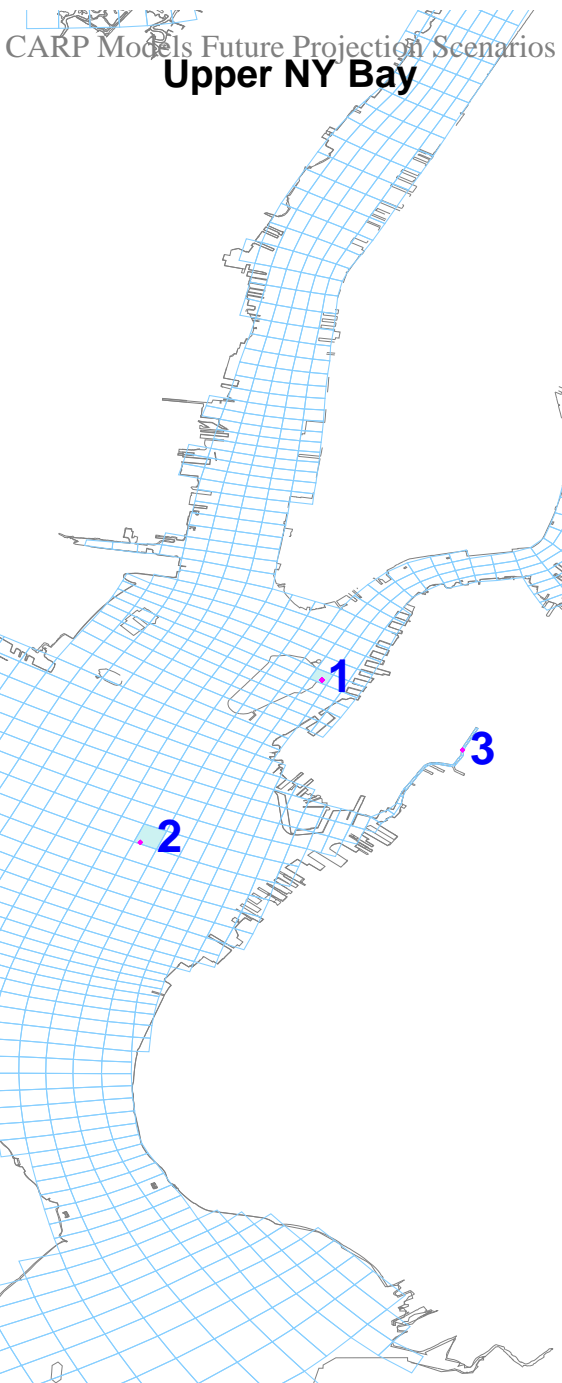
Model: mean and range of values in Water Column

Model: Particulate Phase mean and range of values in Water Column

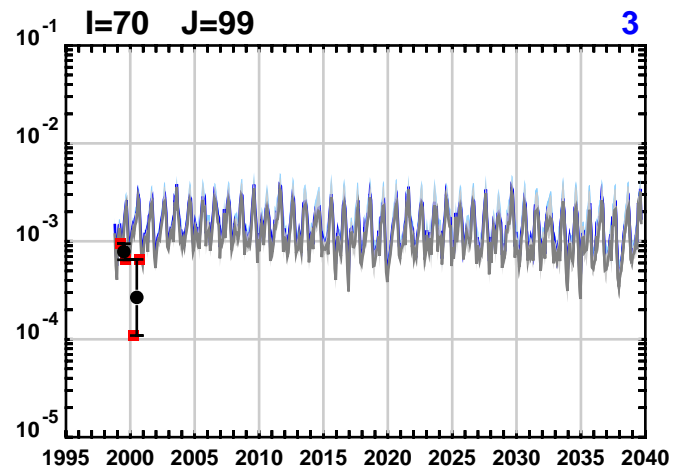
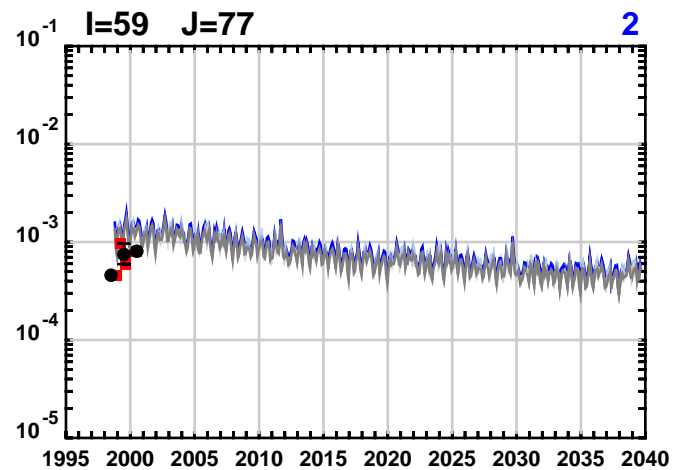
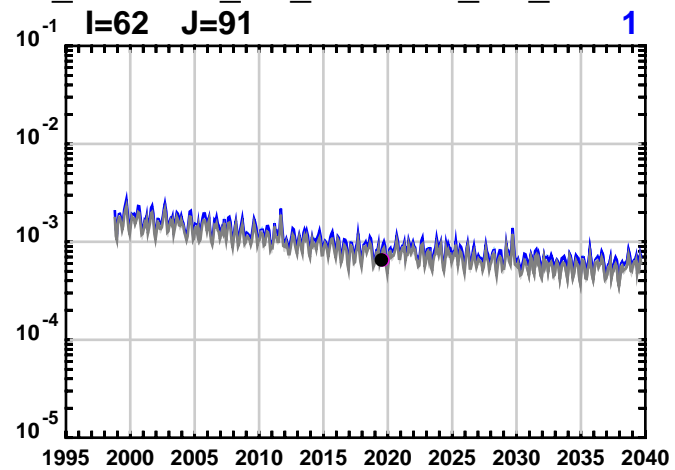
● **Water Column Data: yearly mean and range**

● **CARP2 Data**

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



PCBs, sum of hexachloro biphenyl congeners, ug/L

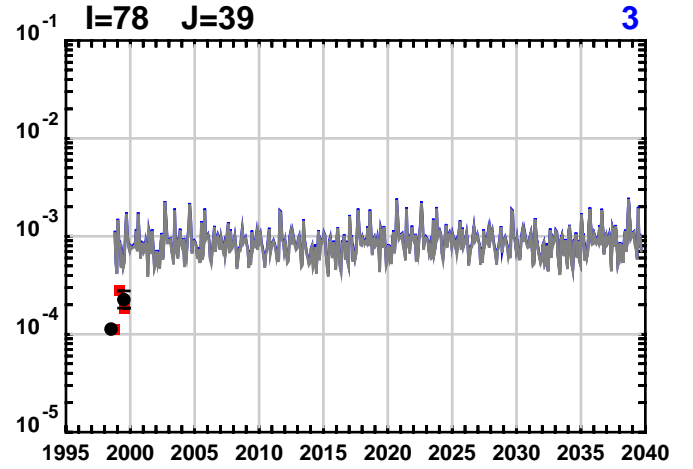
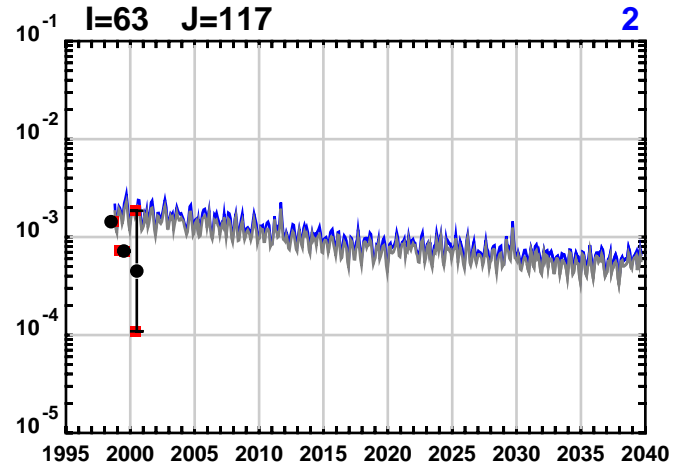
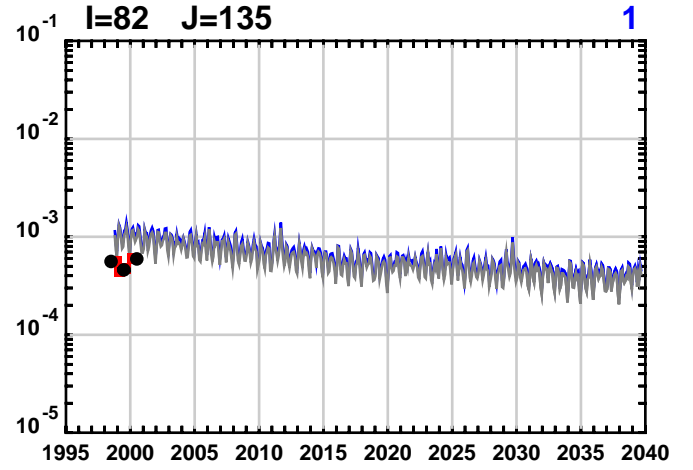
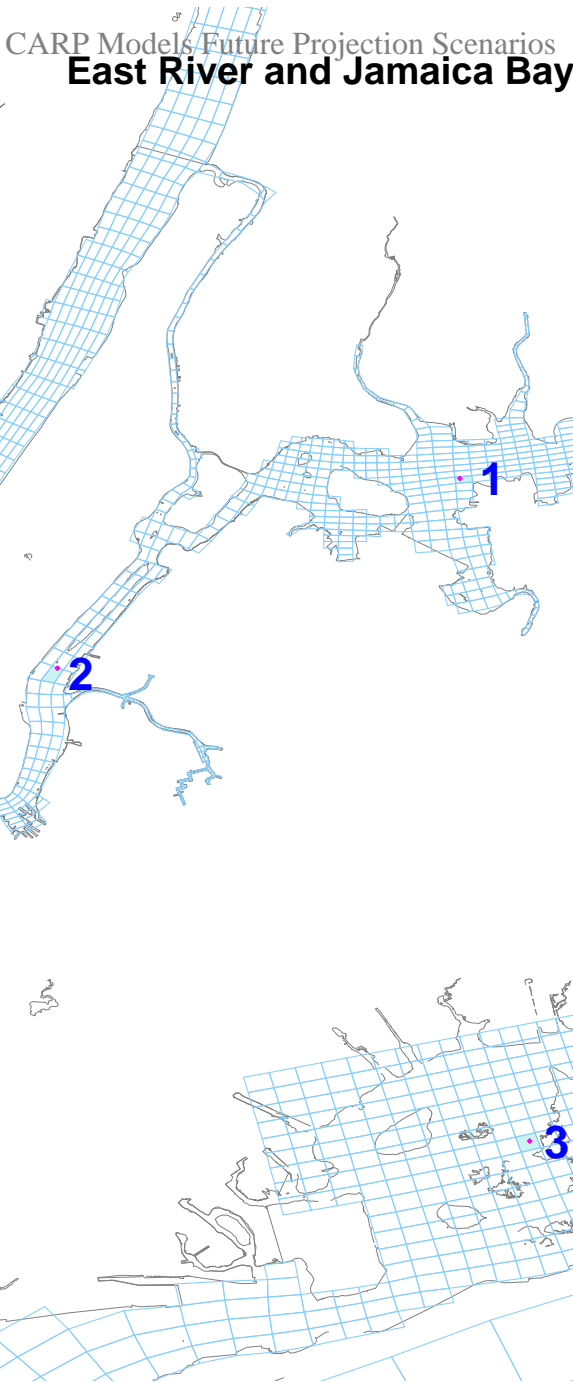


Detect Data **Non-Detect Data**
Model: mean and range of values in Water Column
 Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range
 ● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

PCBs, sum of hexachloro biphenyl congeners, ug/L



Detect Data

Non-Detect Data

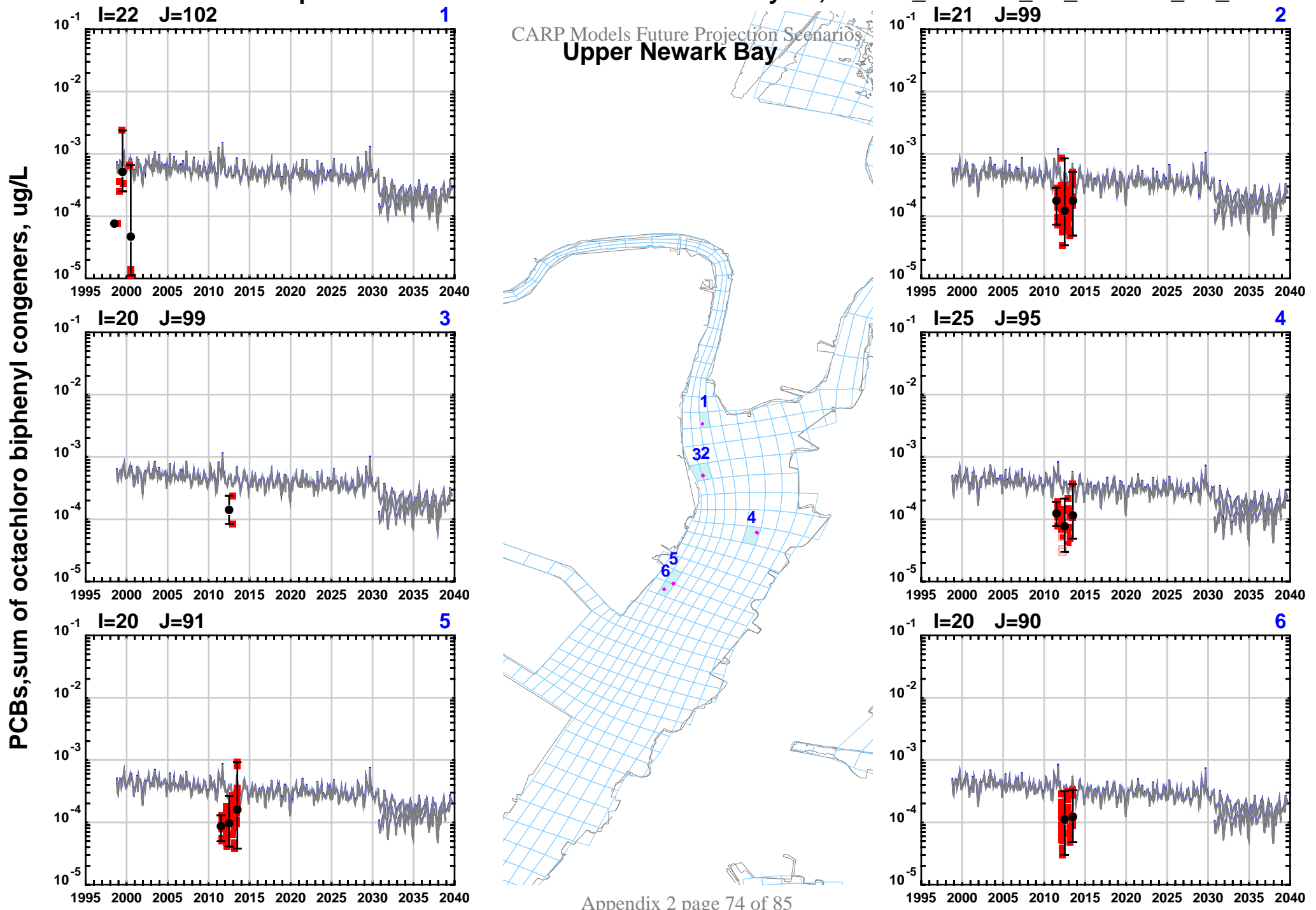
Model: mean and range of values in Water Column

Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range

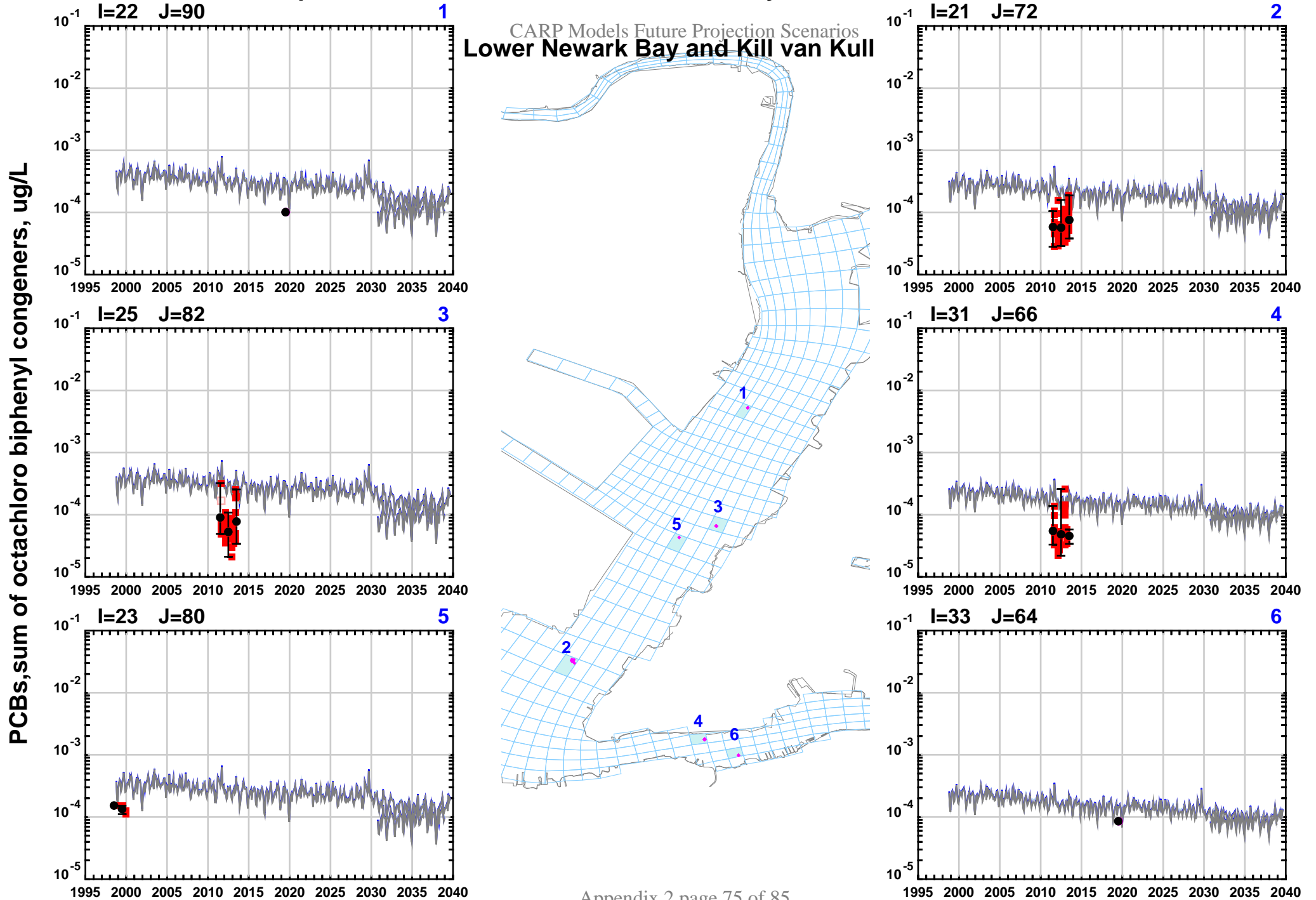
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



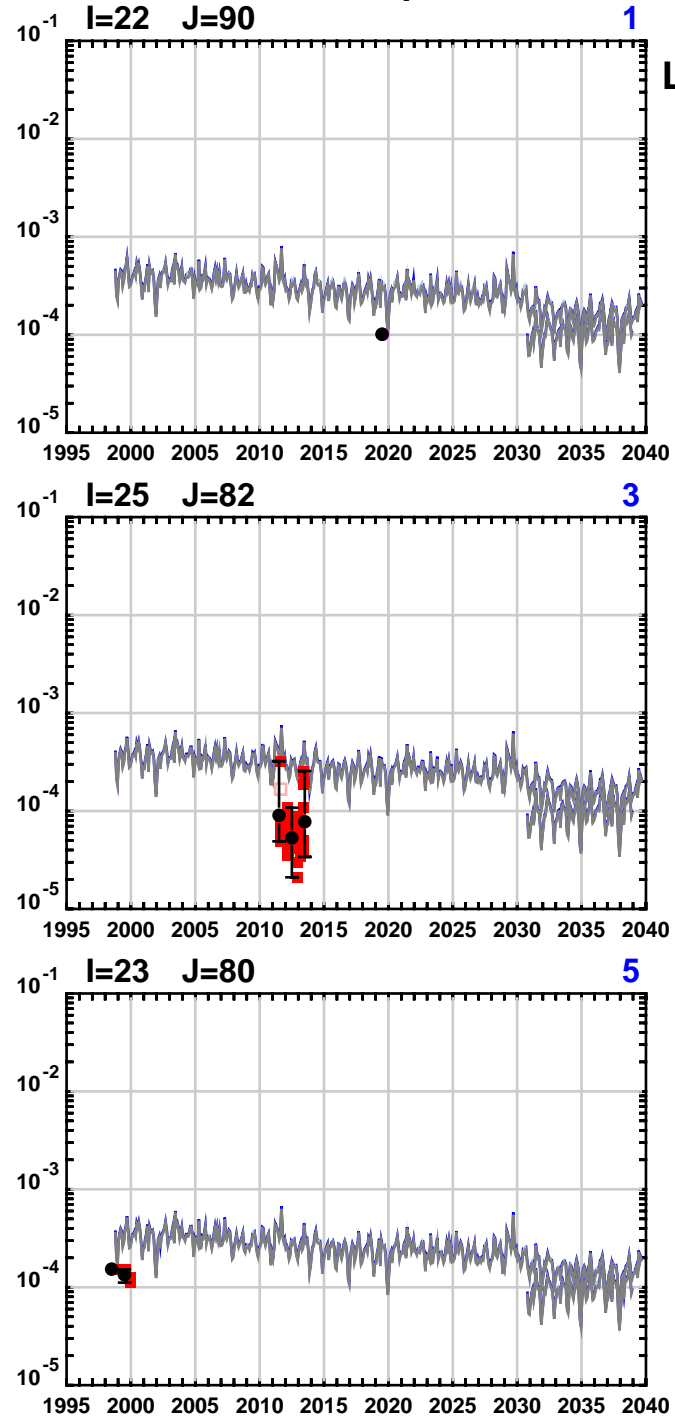
● Detect Data ■ Non-Detect Data
■ Model: mean and range of values in Water Column
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● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



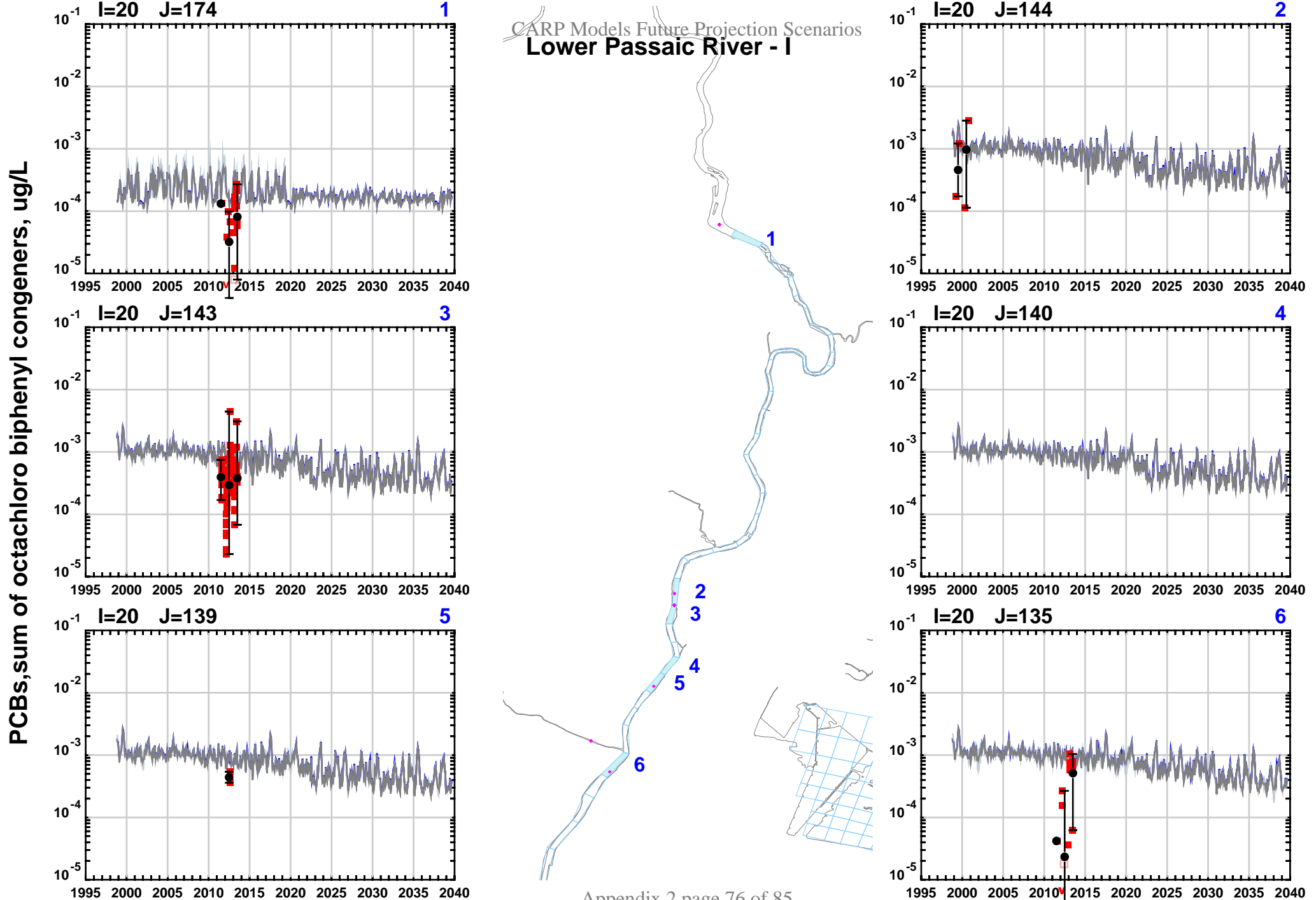
CARP Models Future Projection Scenarios
Lower Newark Bay and Kill van Kull

PCBs, sum of octachloro biphenyl congeners, ug/L



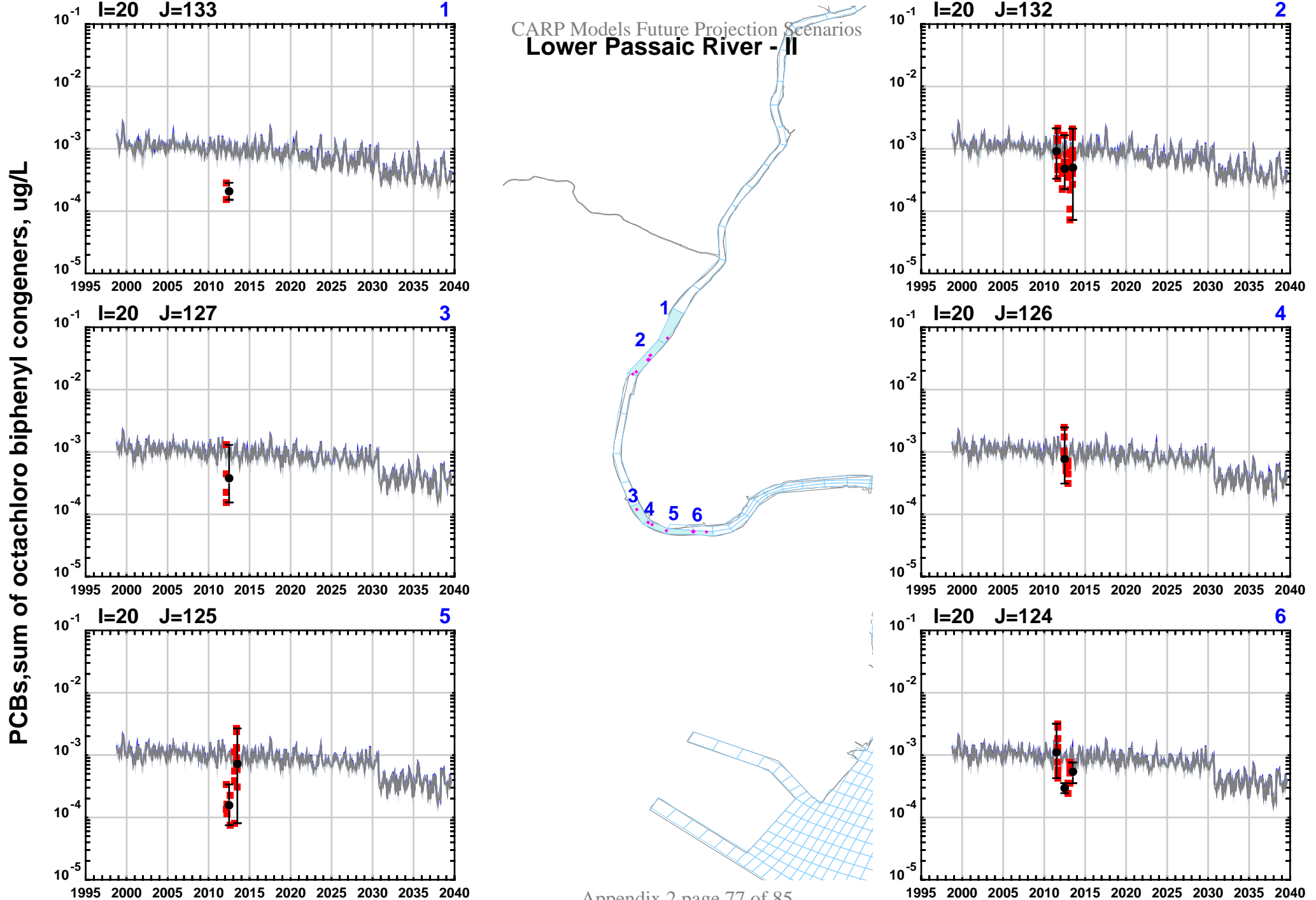
● Detect Data
 ■ Non-Detect Data
 ■ Model: mean and range of values in Water Column
■ Model: Particulate Phase mean and range of values in Water Column
● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



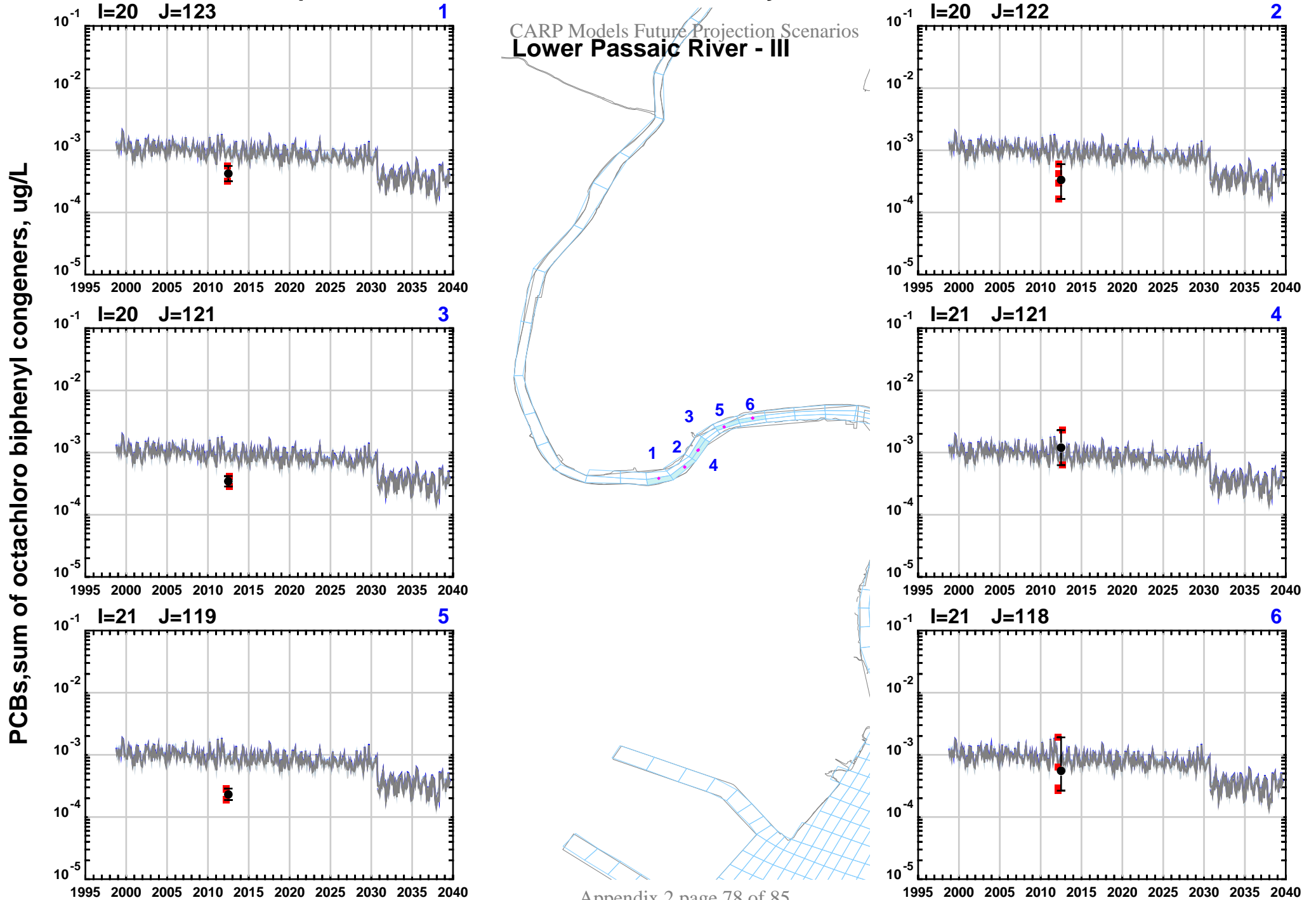
● Detect Data ■ Non-Detect Data
■ Model: mean and range of values in Water Column
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● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



● Detect Data ● Non-Detect Data
— Model: mean and range of values in Water Column
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● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



Detect Data

Non-Detect Data

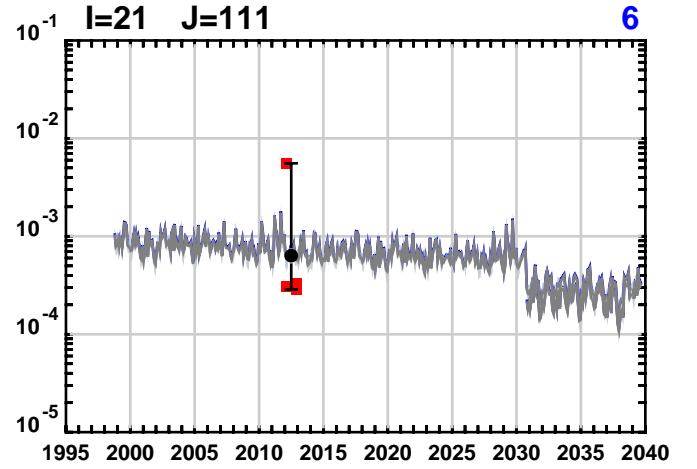
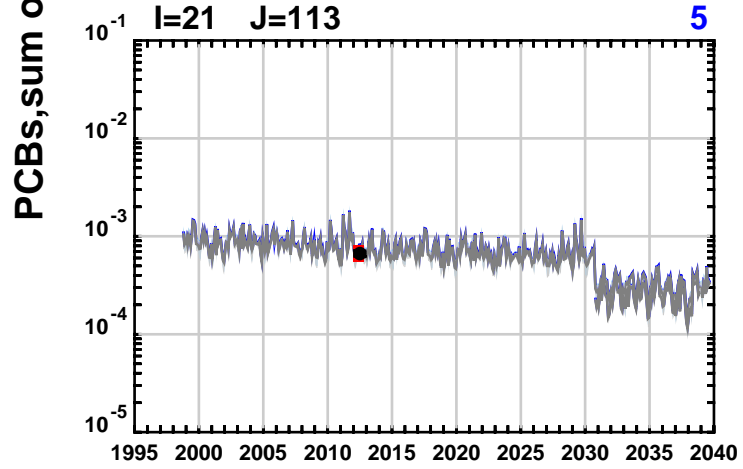
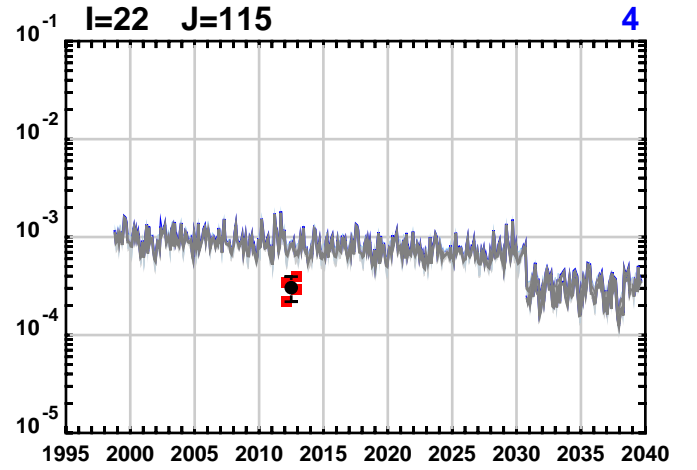
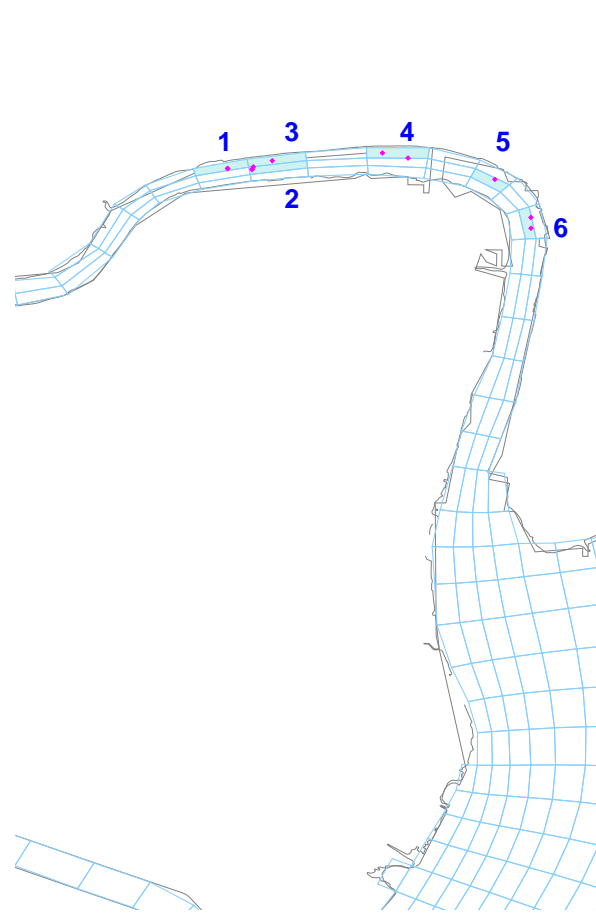
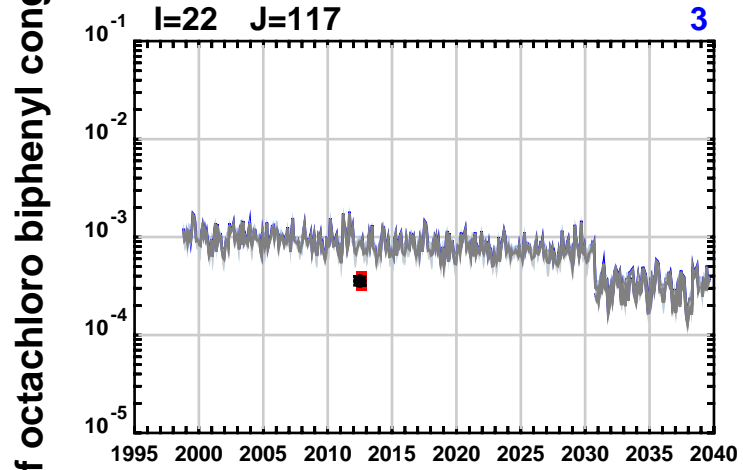
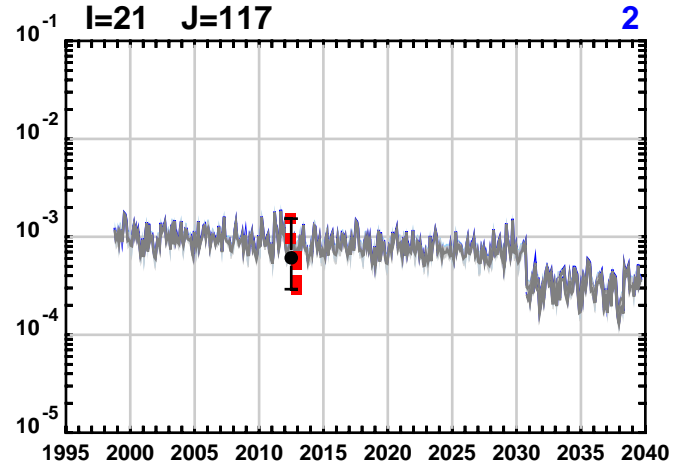
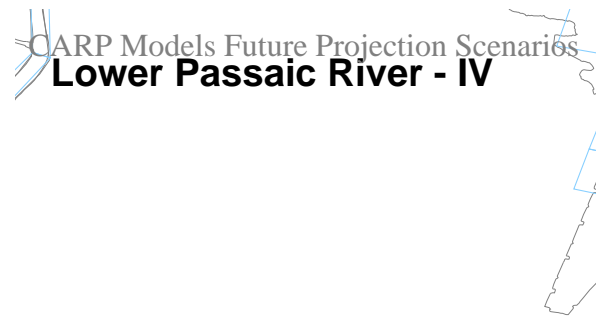
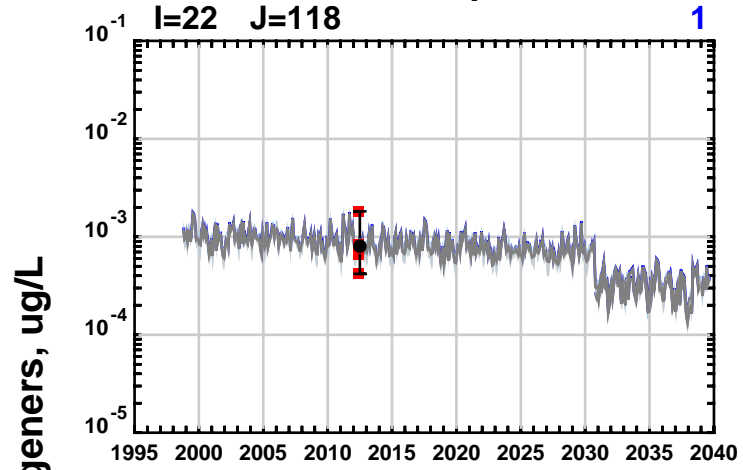
Model: mean and range of values in Water Column

Model: Particulate Phase mean and range of values in Water Column

● **Water Column Data: yearly mean and range**

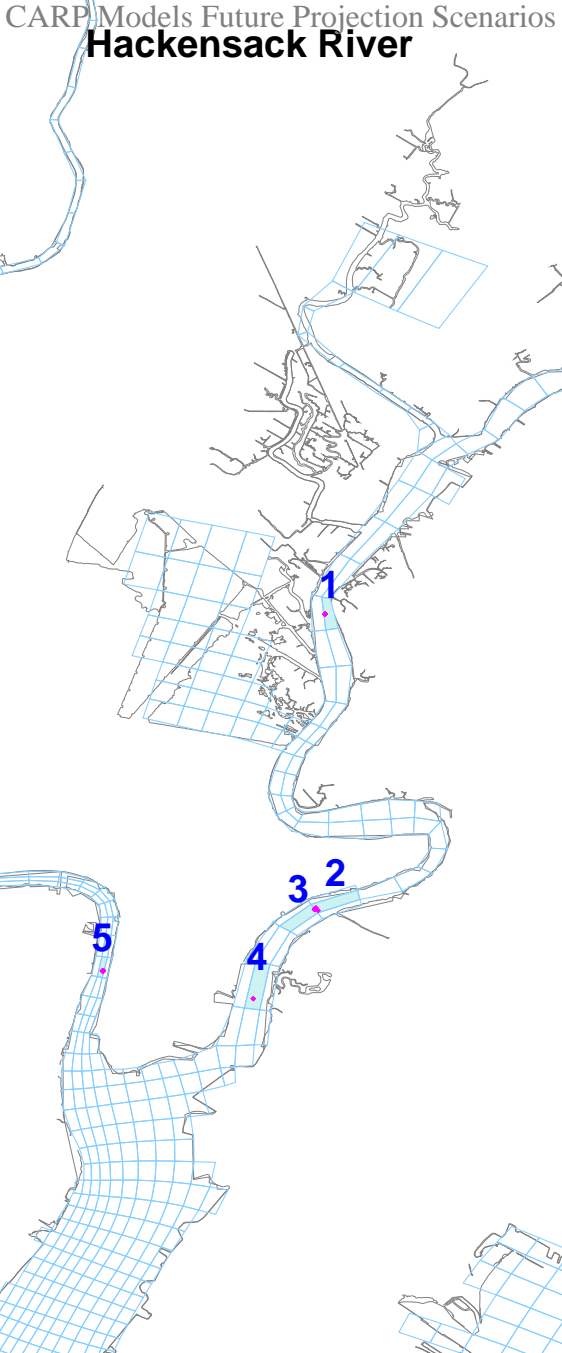
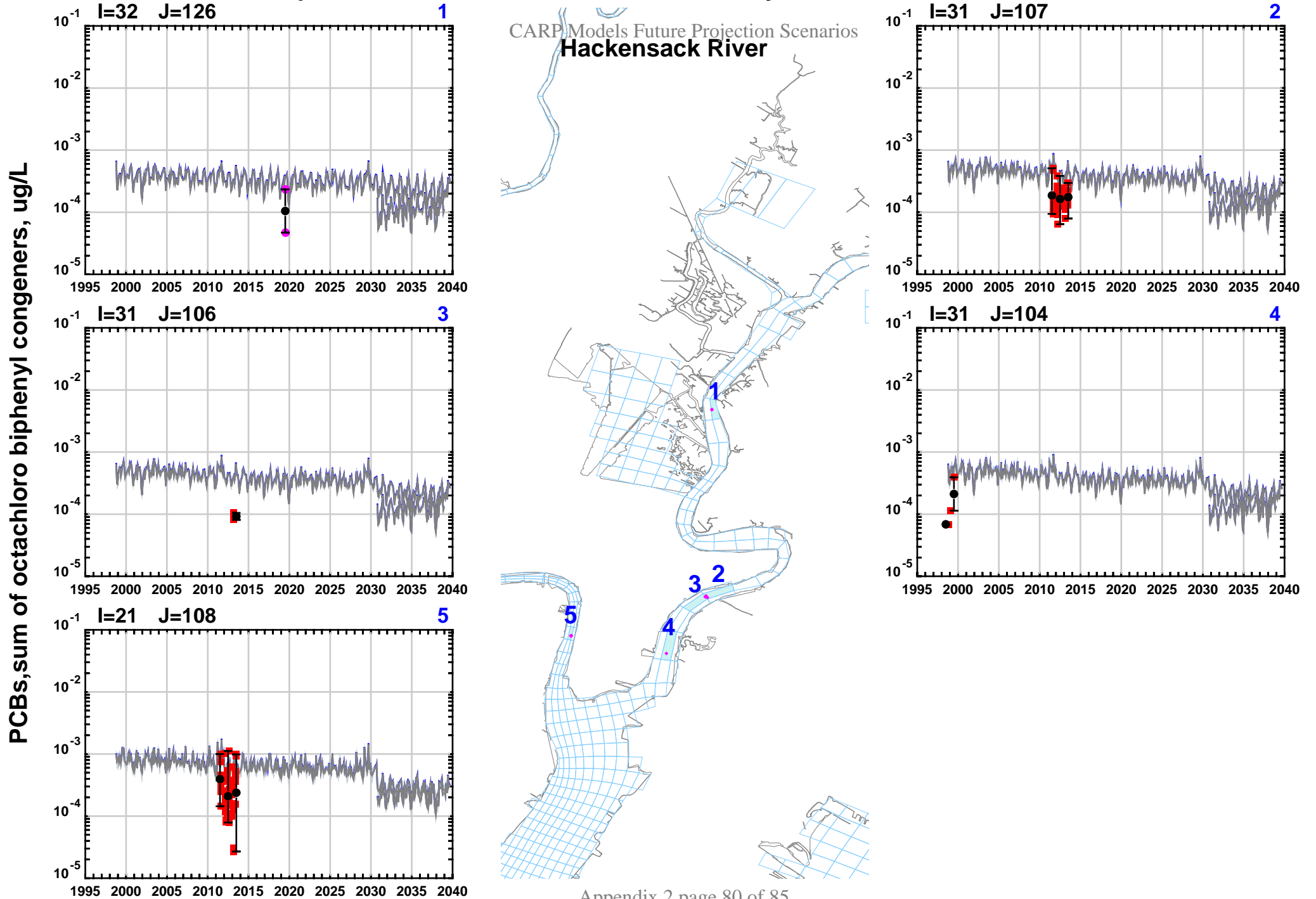
● **CARP2 Data**

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



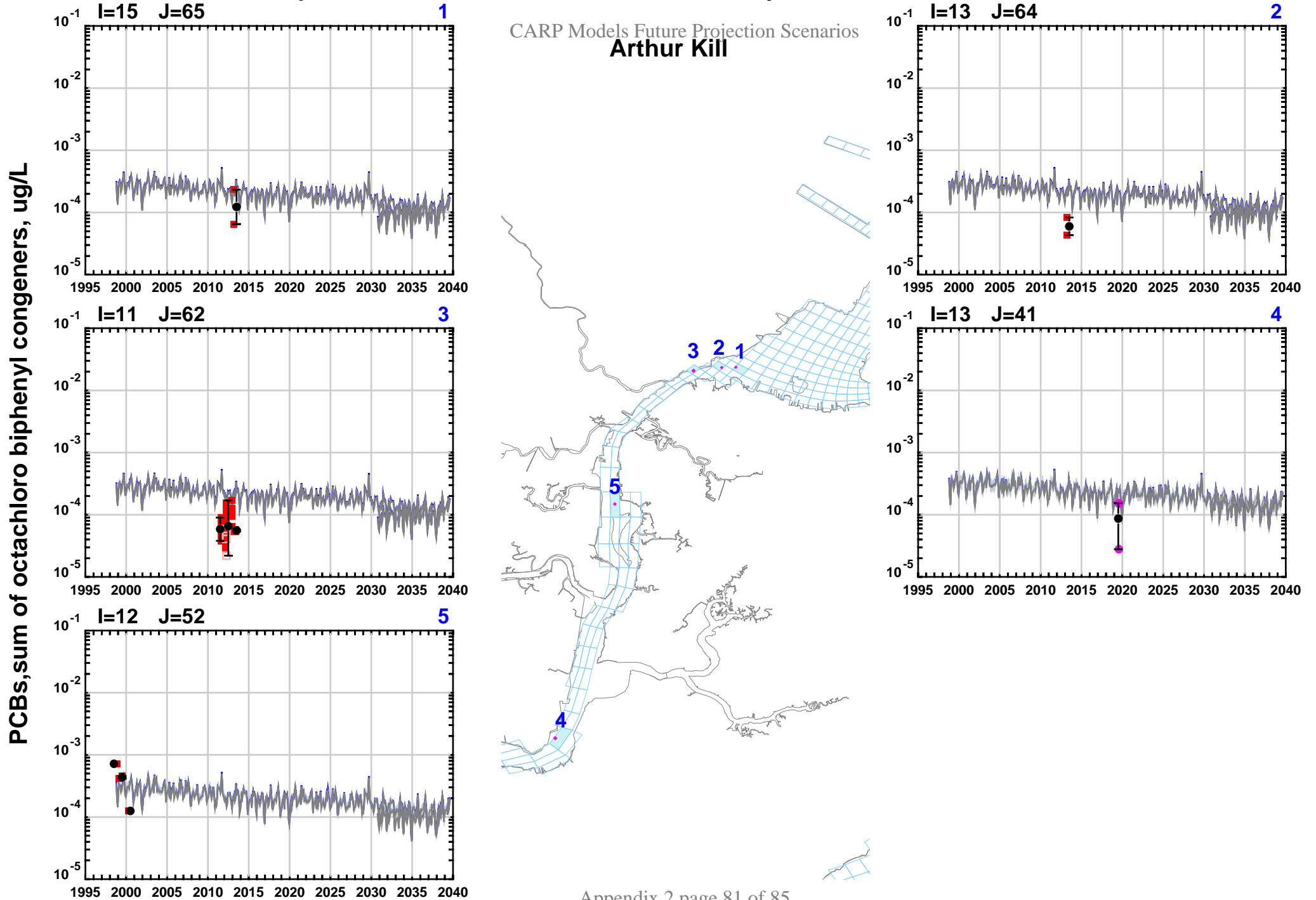
● Detect Data ■ Non-Detect Data
— Model: mean and range of values in Water Column
— Model: Particulate Phase mean and range of values in Water Column
● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



● Detect Data ■ Non-Detect Data
● Model: mean and range of values in Water Column
■ Model: Particulate Phase mean and range of values in Water Column
● Water Column Data: yearly mean and range
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



Detect Data

Non-Detect Data

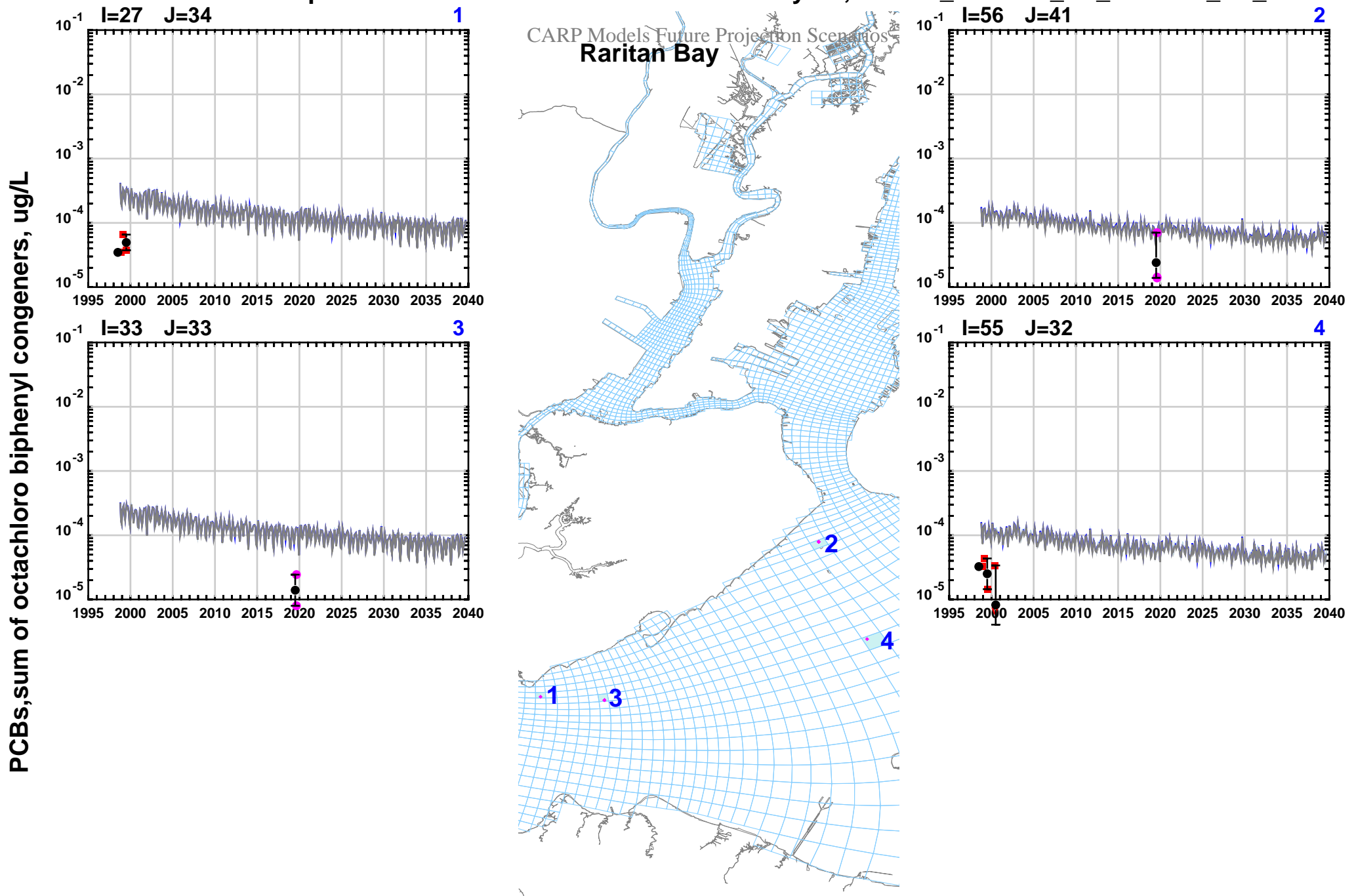
Model: mean and range of values in Water Column

Model: Particulate Phase mean and range of values in Water Column

● **Water Column Data: yearly mean and range**

● **CARP2 Data**

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030

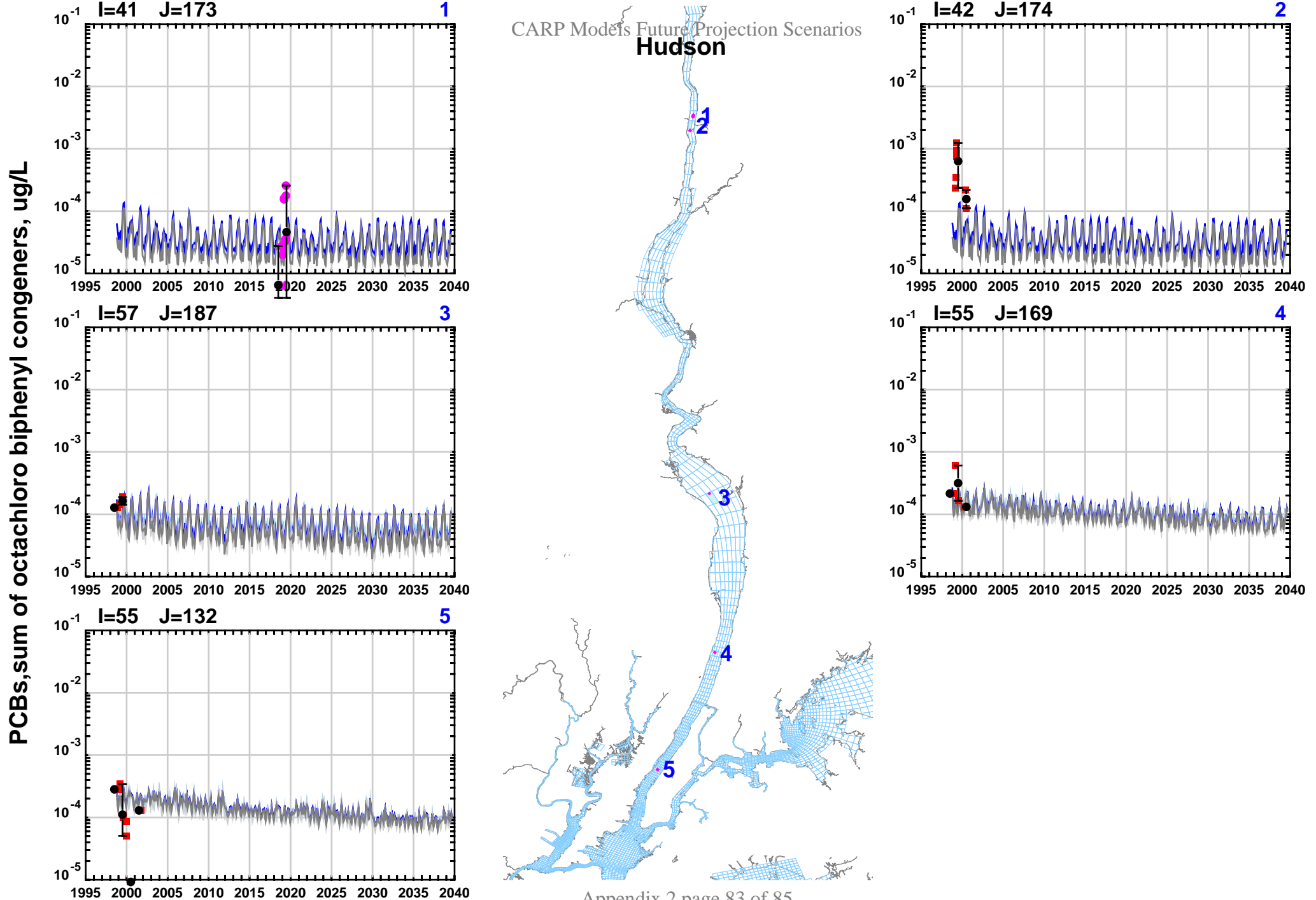


PCBs, sum of octachloro biphenyl congeners, ug/L

Detect Data **Non-Detect Data**
Model: mean and range of values in Water Column
 Model: Particulate Phase mean and range of values in Water Column

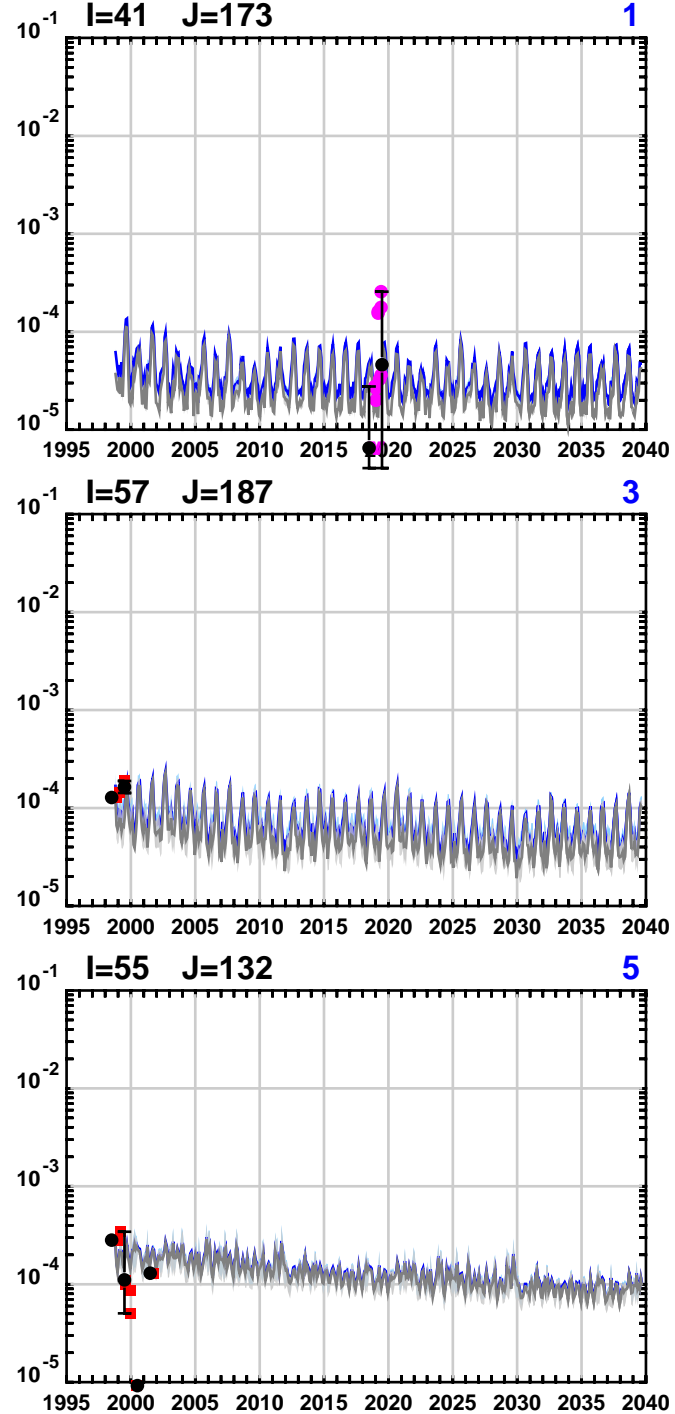
● Water Column Data: yearly mean and range
 ● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



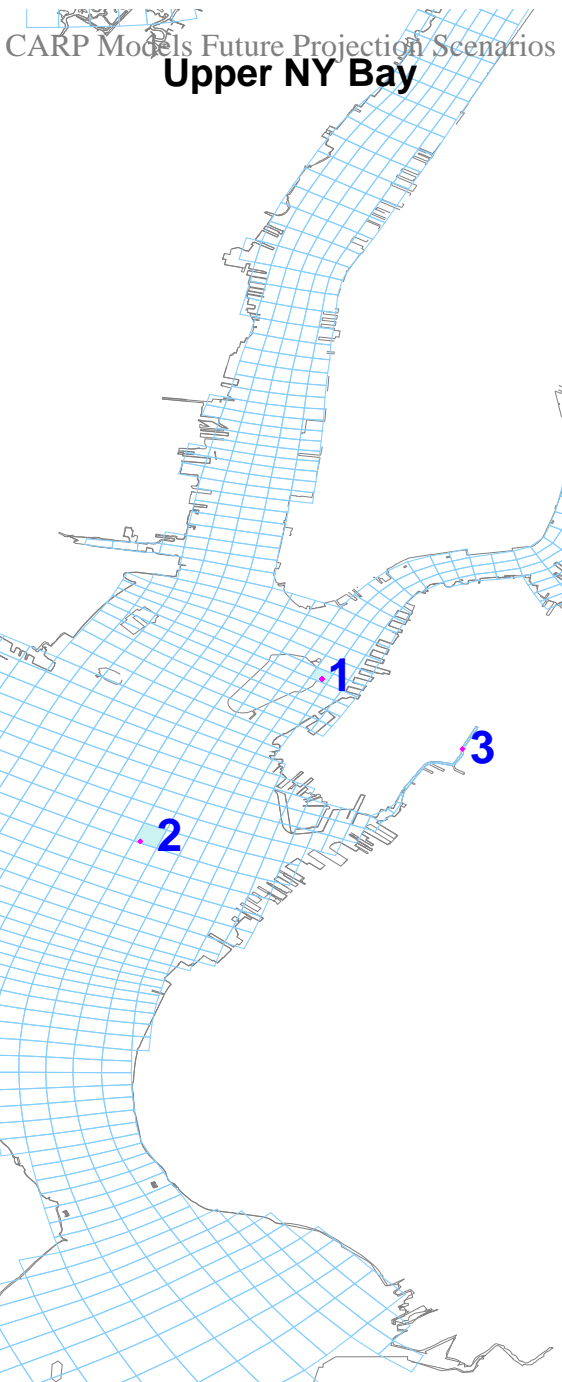
CARP Models Future Projection Scenarios
Hudson

PCBs, sum of octachloro biphenyl congeners, ug/L

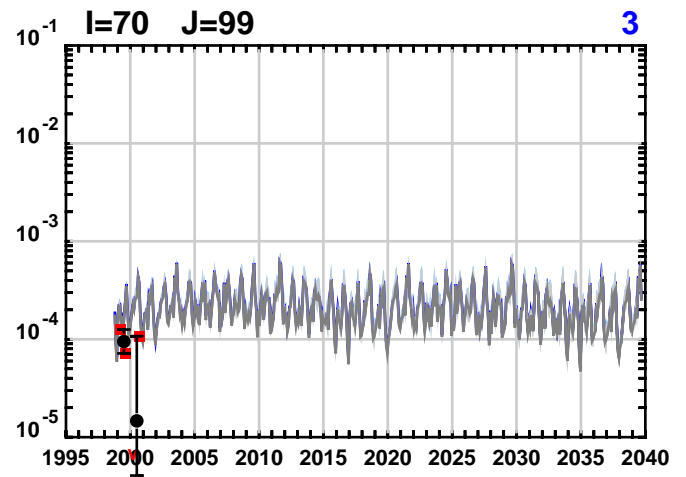
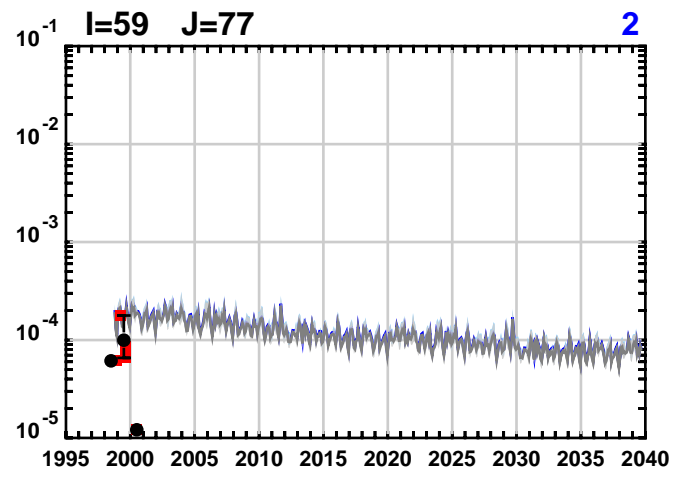
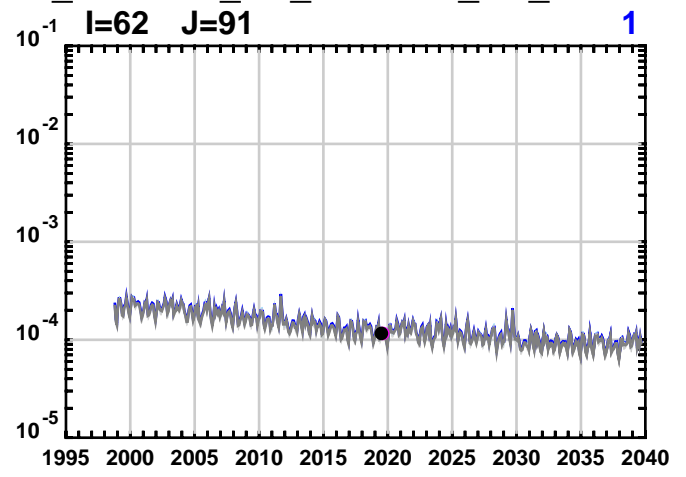


● Detect Data ● Non-Detect Data
— Model: mean and range of values in Water Column
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Water Column Data Comparison With Model All Water Column Layers, RUN18_PROJ01_R1_PROJ02_R1_with2030



PCBs, sum of octachloro biphenyl congeners, ug/L

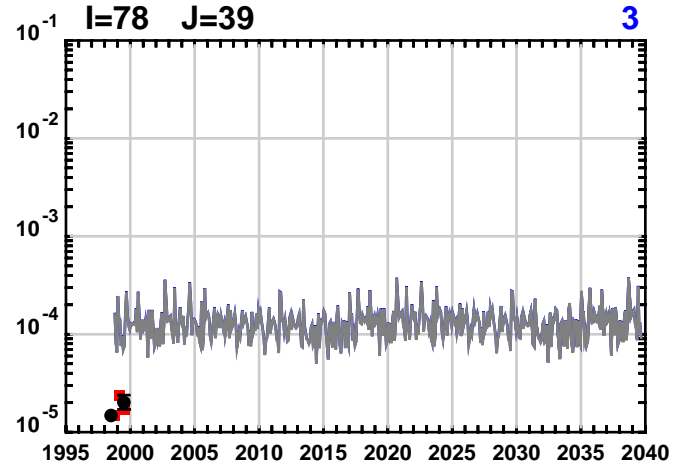
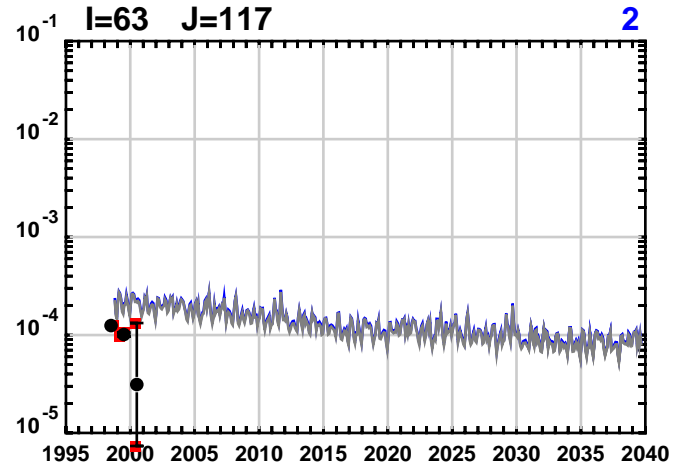
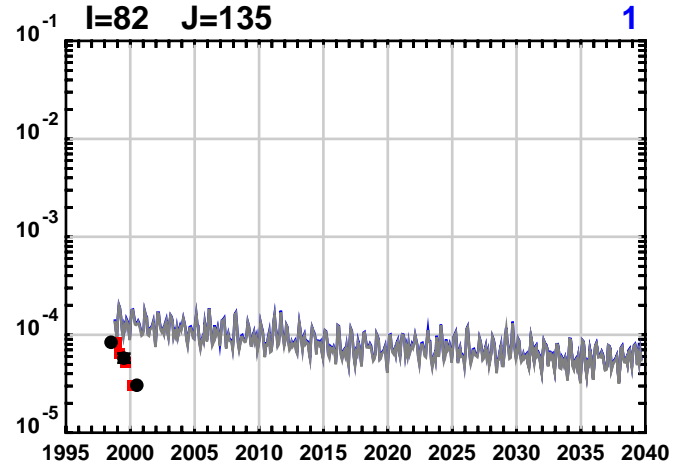
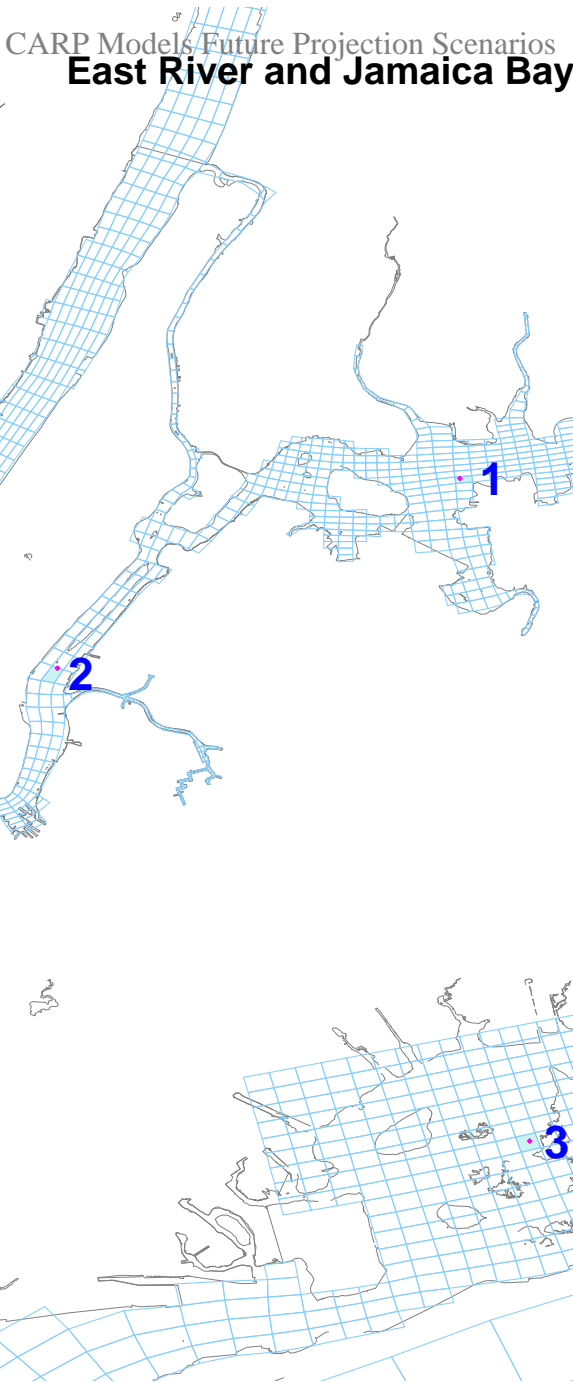


Detect Data **Non-Detect Data**
Model: mean and range of values in Water Column
 Model: Particulate Phase mean and range of values in Water Column

● Water Column Data: yearly mean and range
 ● CARP2 Data

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Detect Data **Non-Detect Data**
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