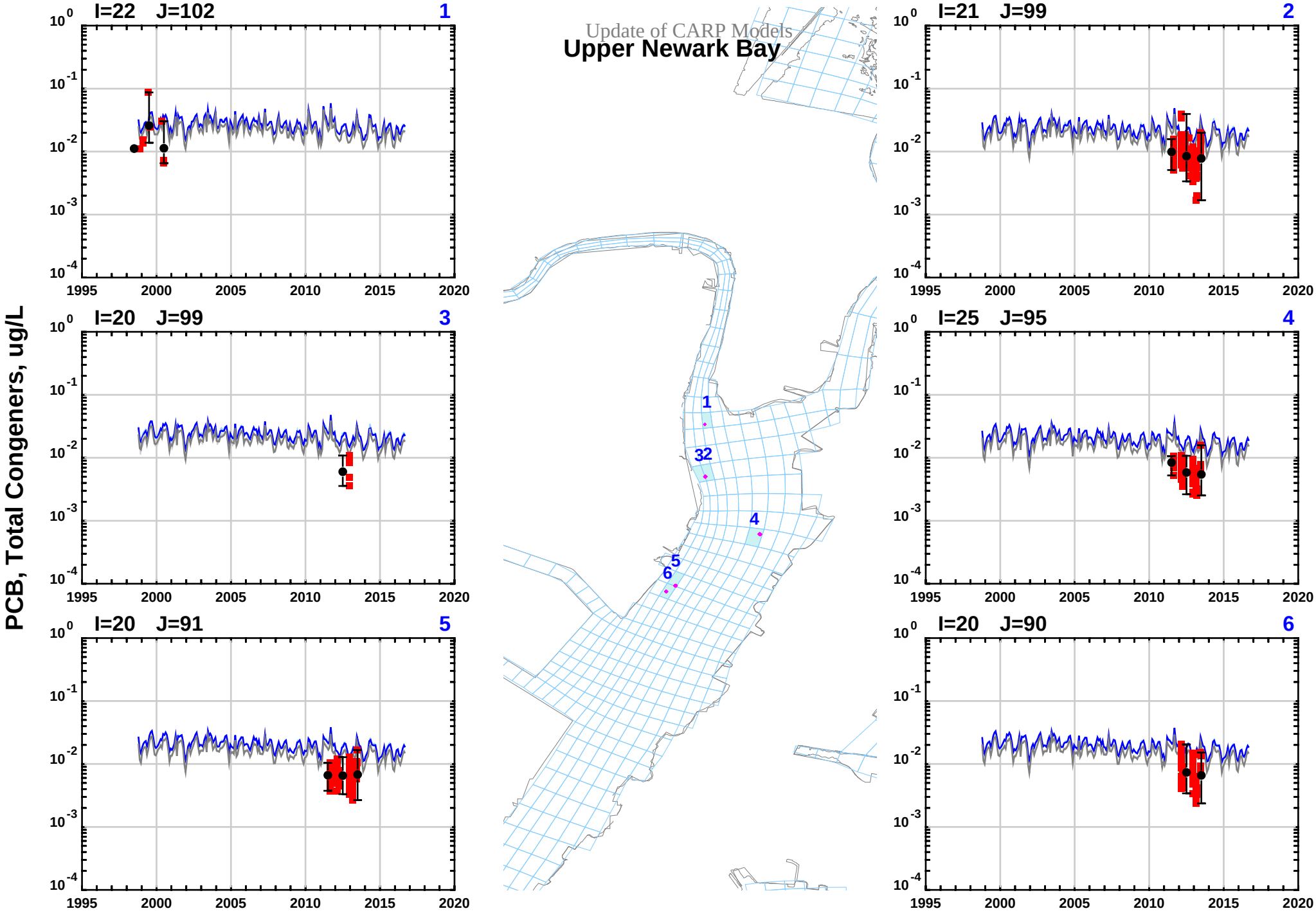
APPENDIX 17

Contaminant Concentrations in the Water Column Model and Measurement Comparisons Results Diagrams, Validation, Various Measurement Programs, Sixty-One Locations throughout NY/NJ Harbor, 1998-2016 Water Years

- PCB summation (ten homologs)
- six PCB homologs
- six dioxin congeners
- nine furan congeners

Water Column Data Comparison With Model All Water Column Layers, RUN18



Detect Data Non-Detect Data

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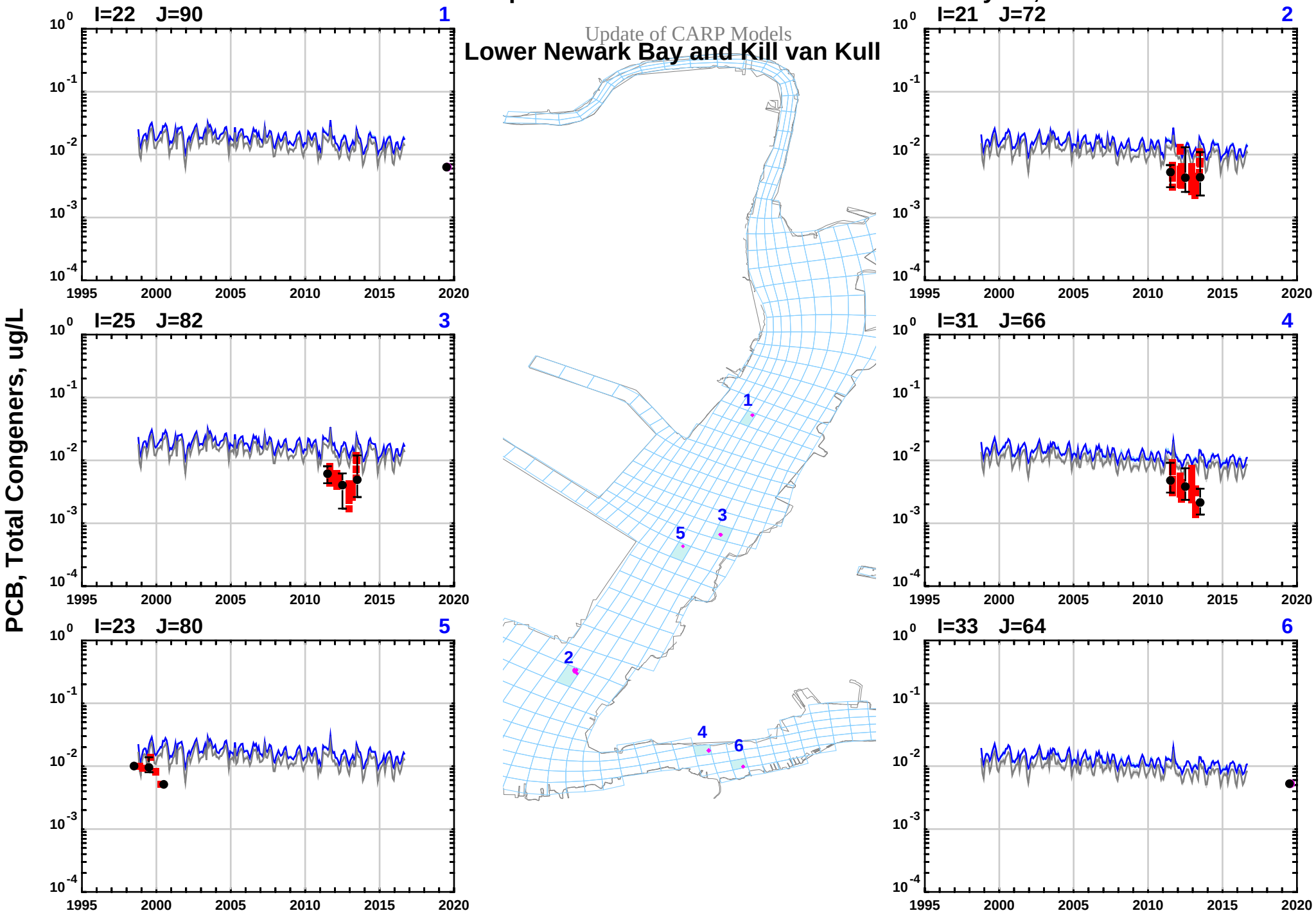
Water Column Data: yearly mean and range

CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18

Update of CARP Models

Lower Newark Bay and Kill van Kull



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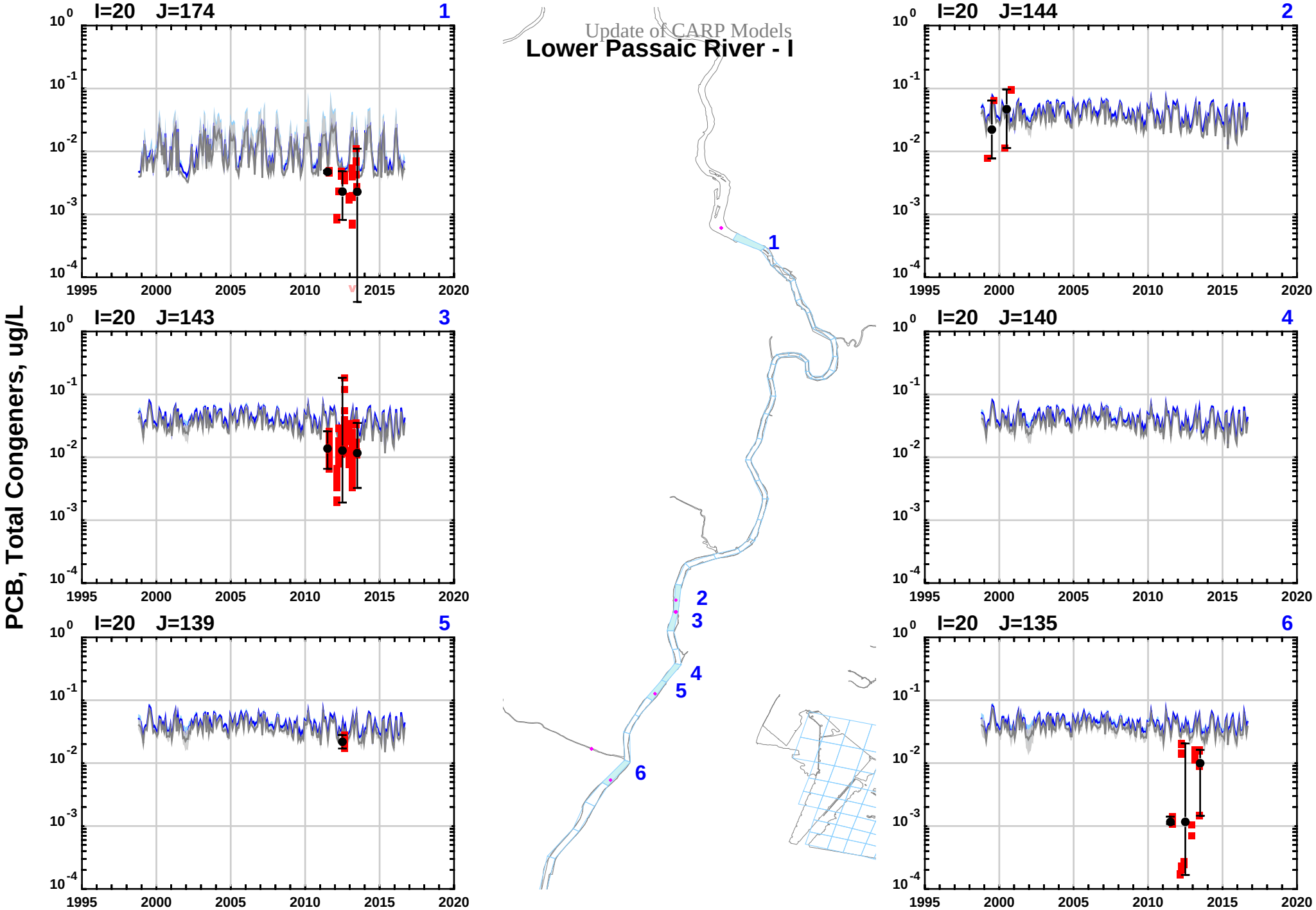
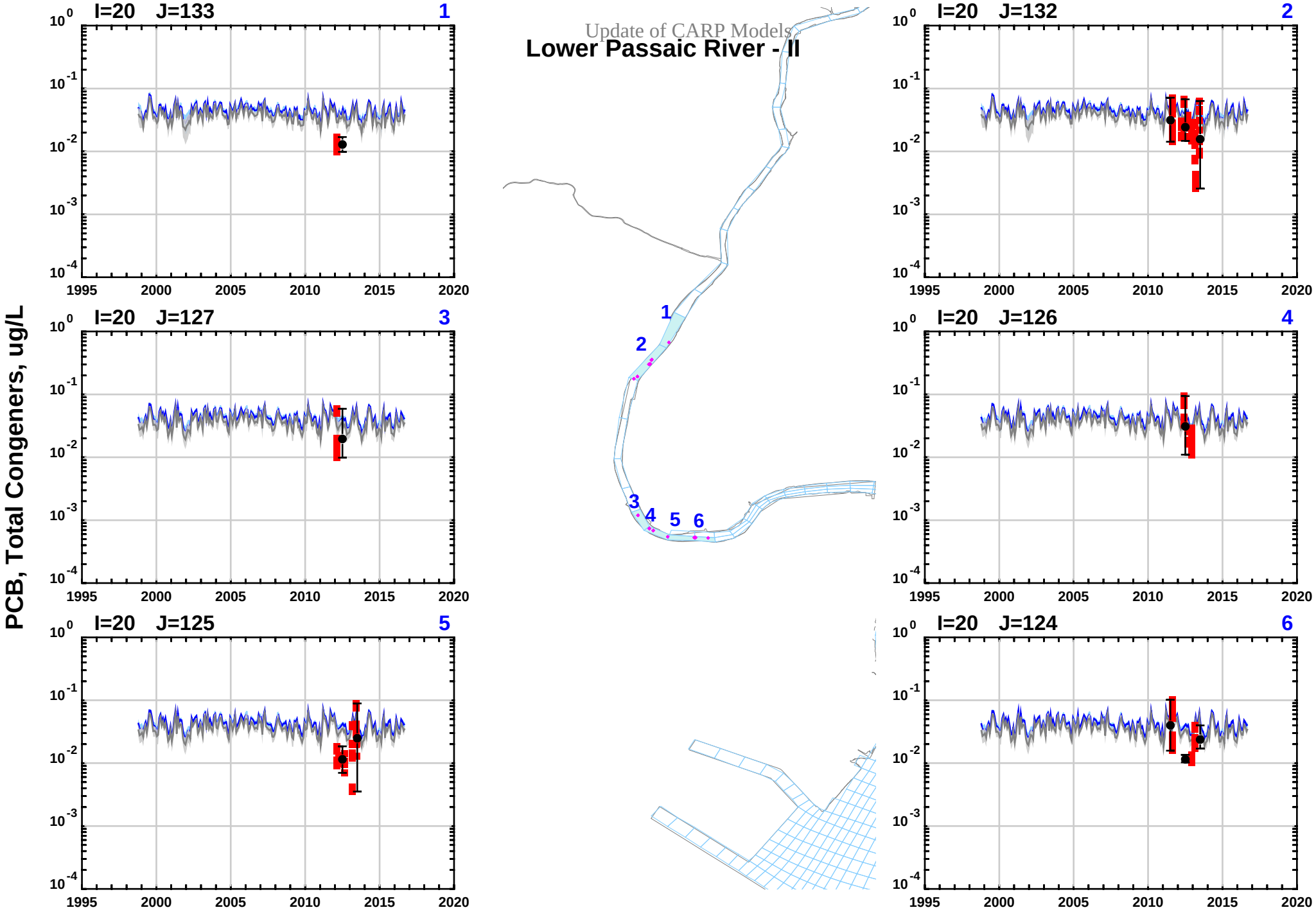


Water Column Data Comparison With Model All Water Column Layers, RUN18



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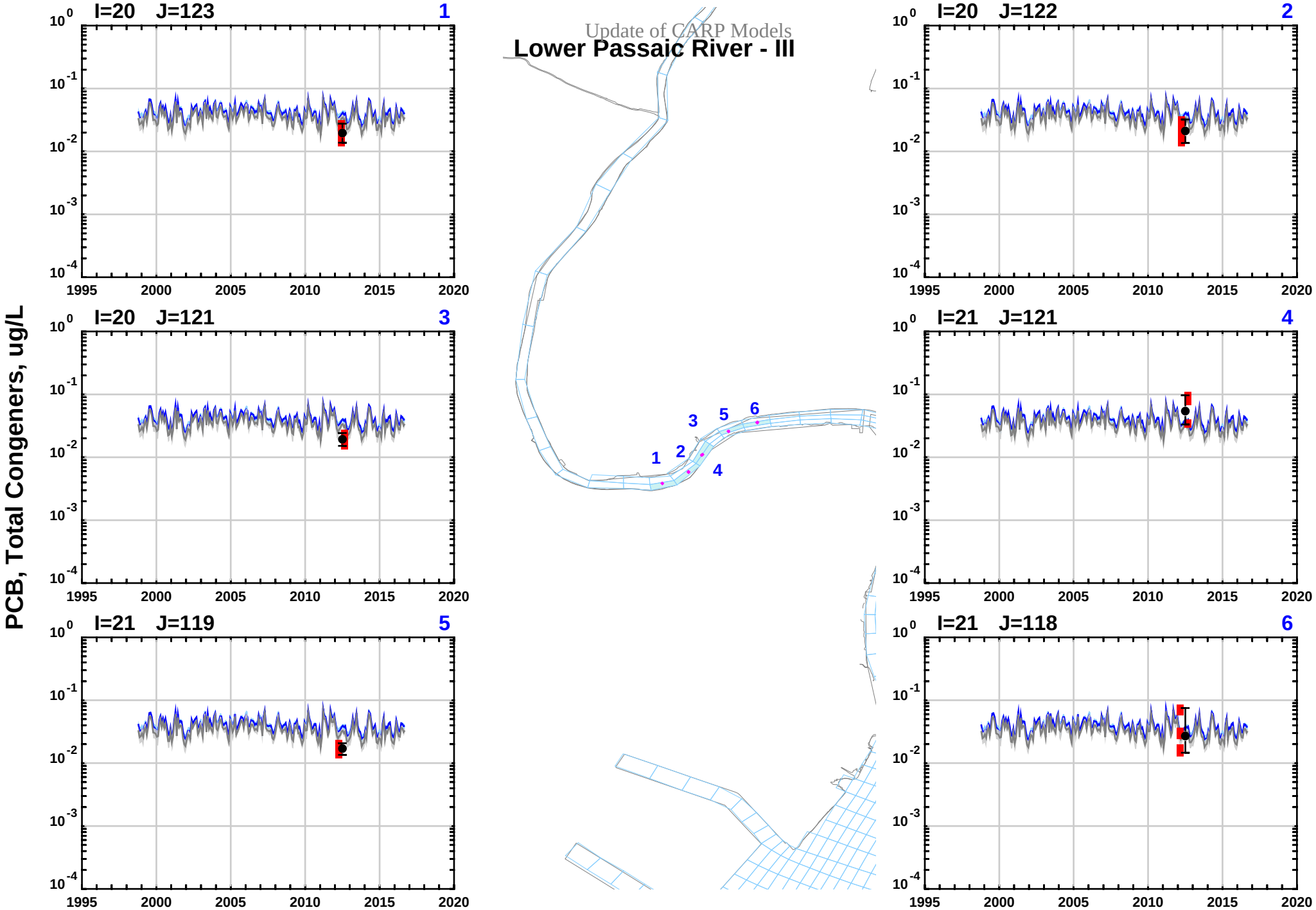

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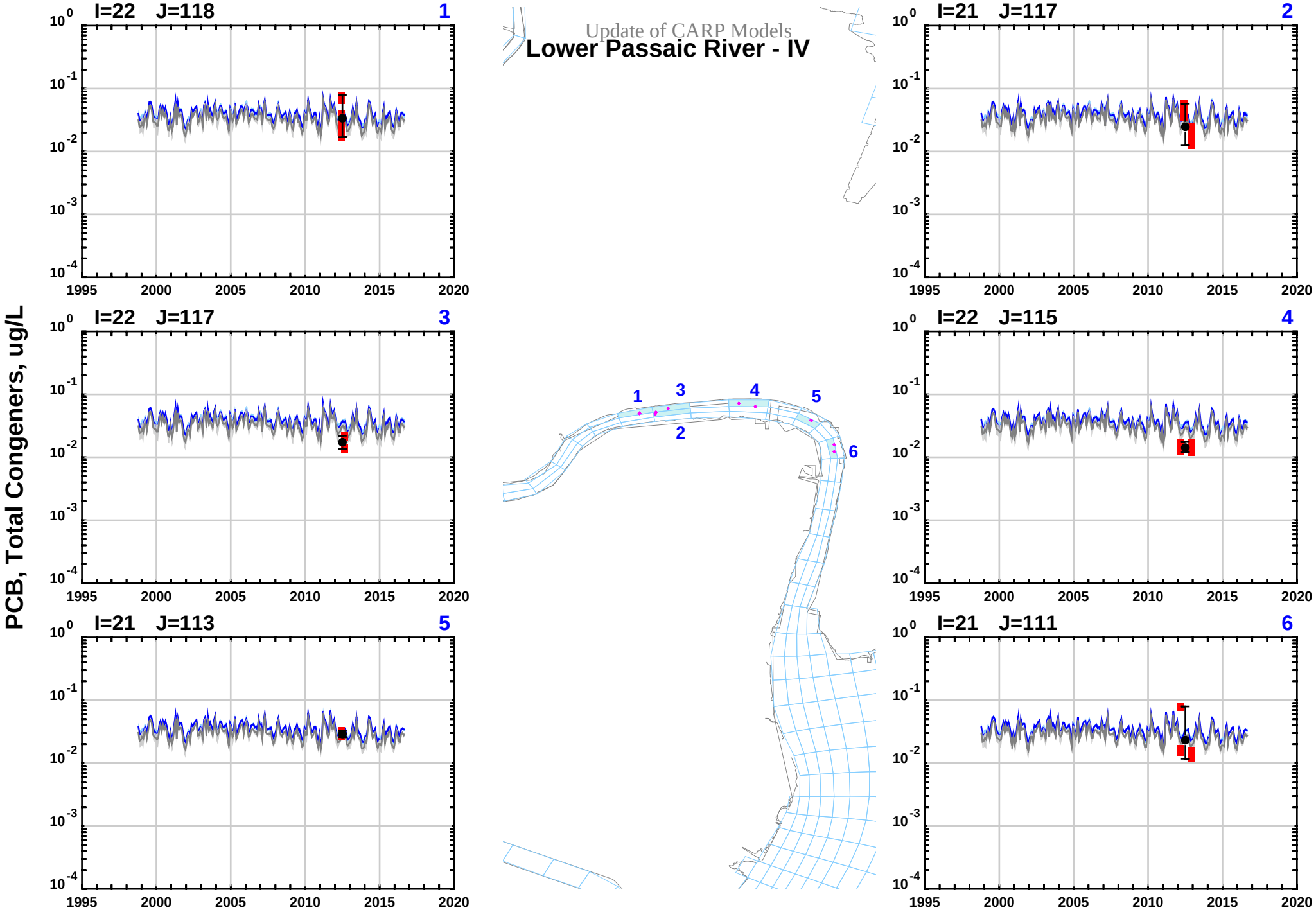
Water Column Data Comparison With Model All Water Column Layers, RUN18

Update of CARP Models

Lower Passaic River - IV



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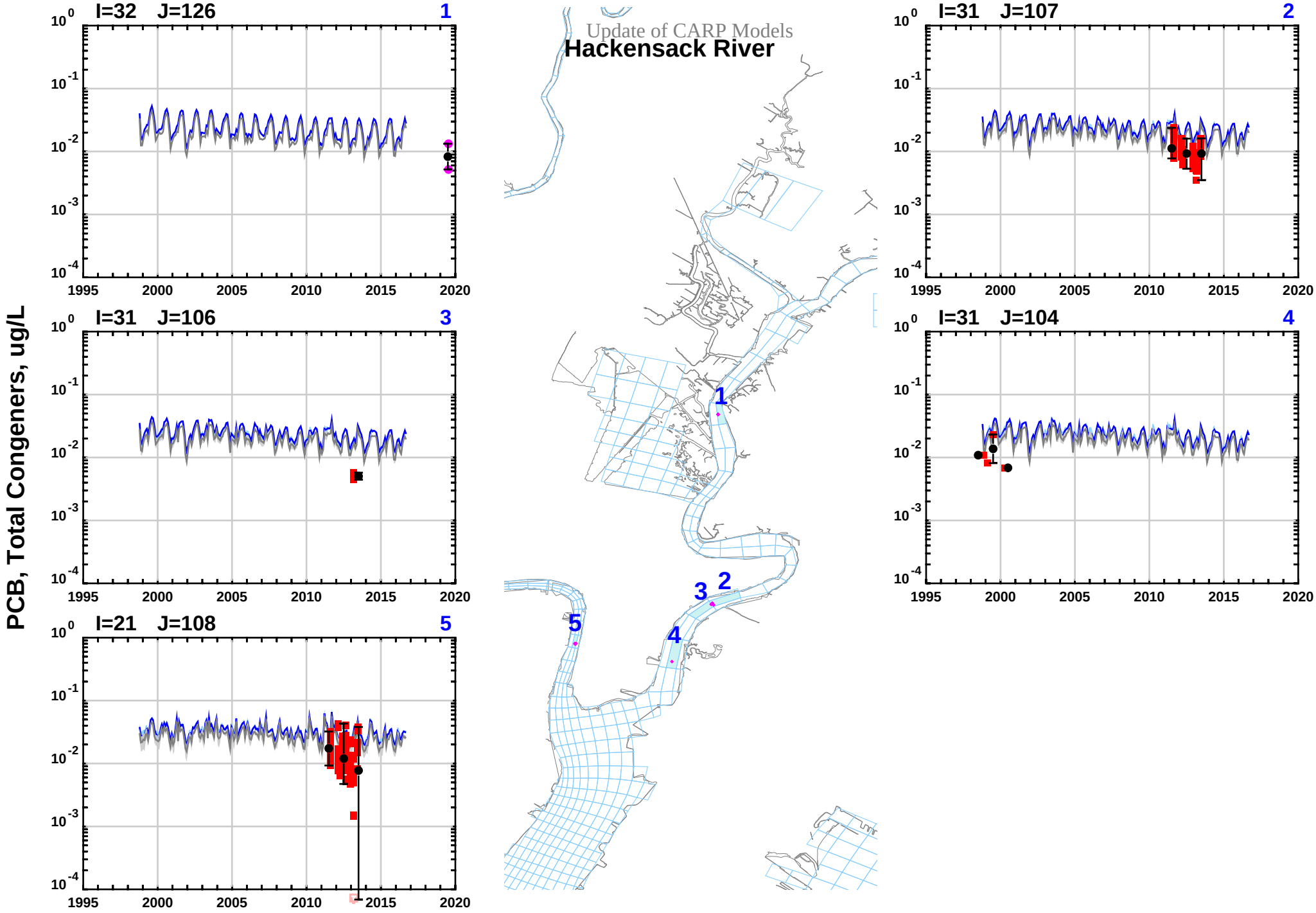

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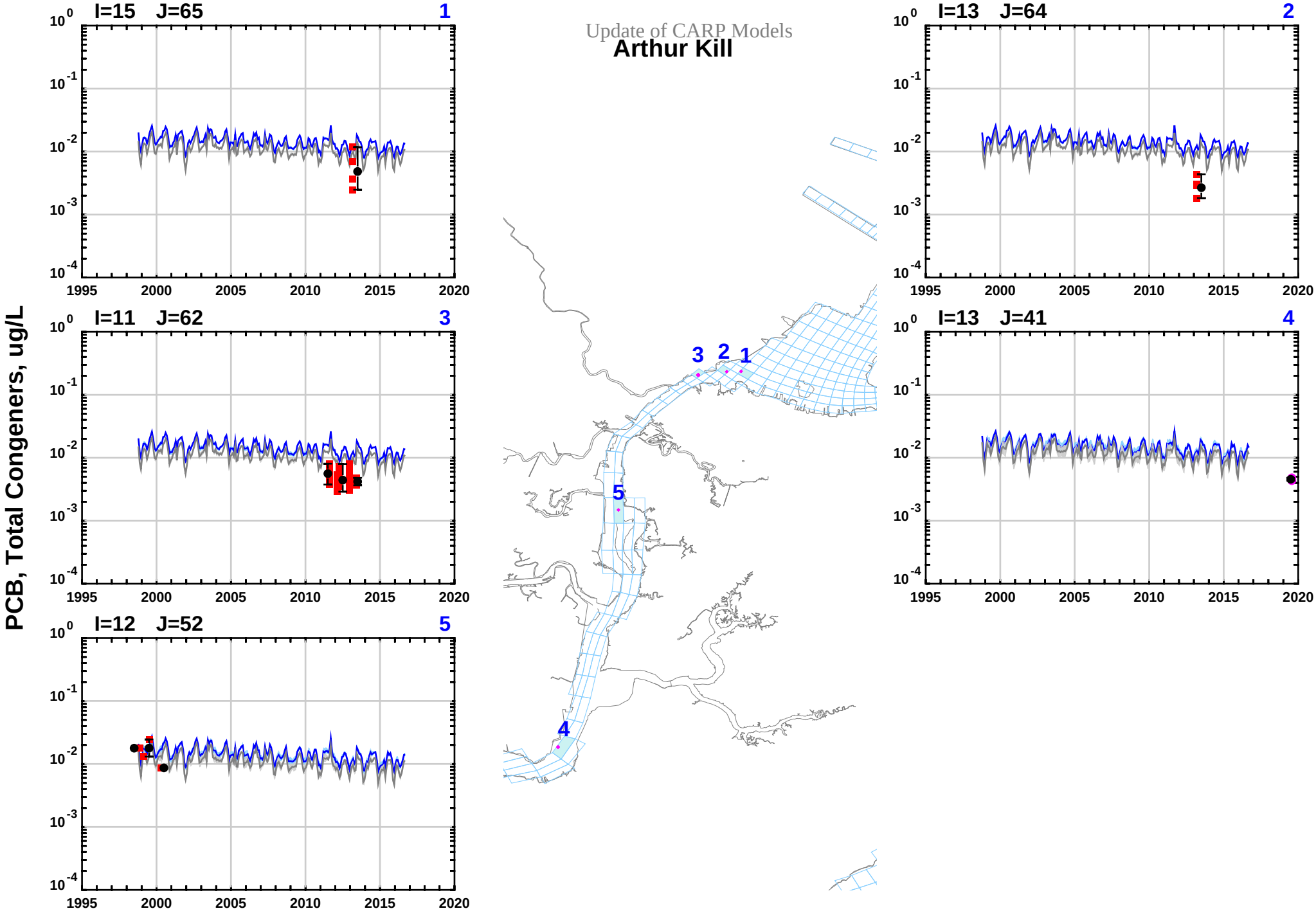
Water Column Data Comparison With Model All Water Column Layers, RUN18

Update of CARP Models

Arthur Kill



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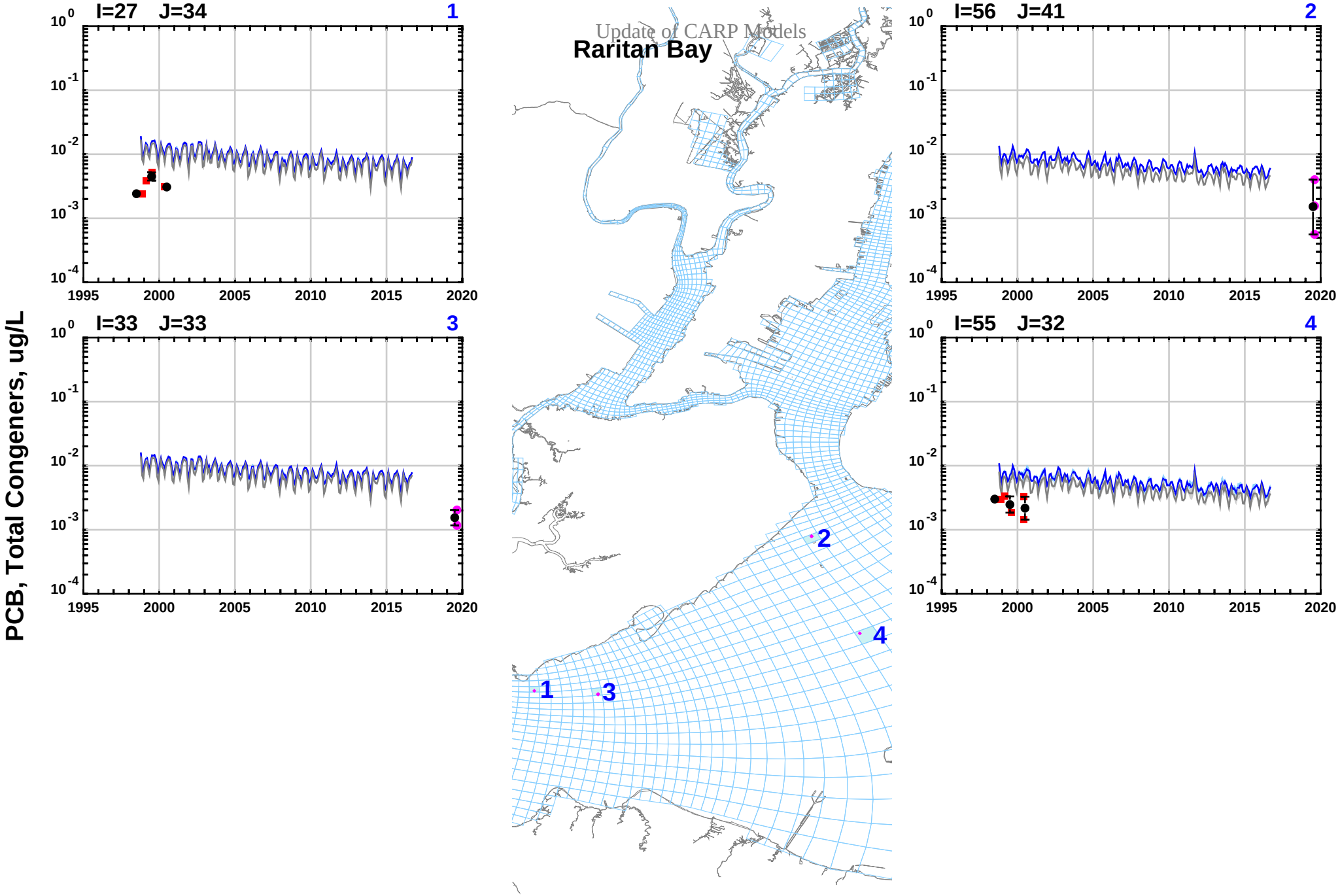

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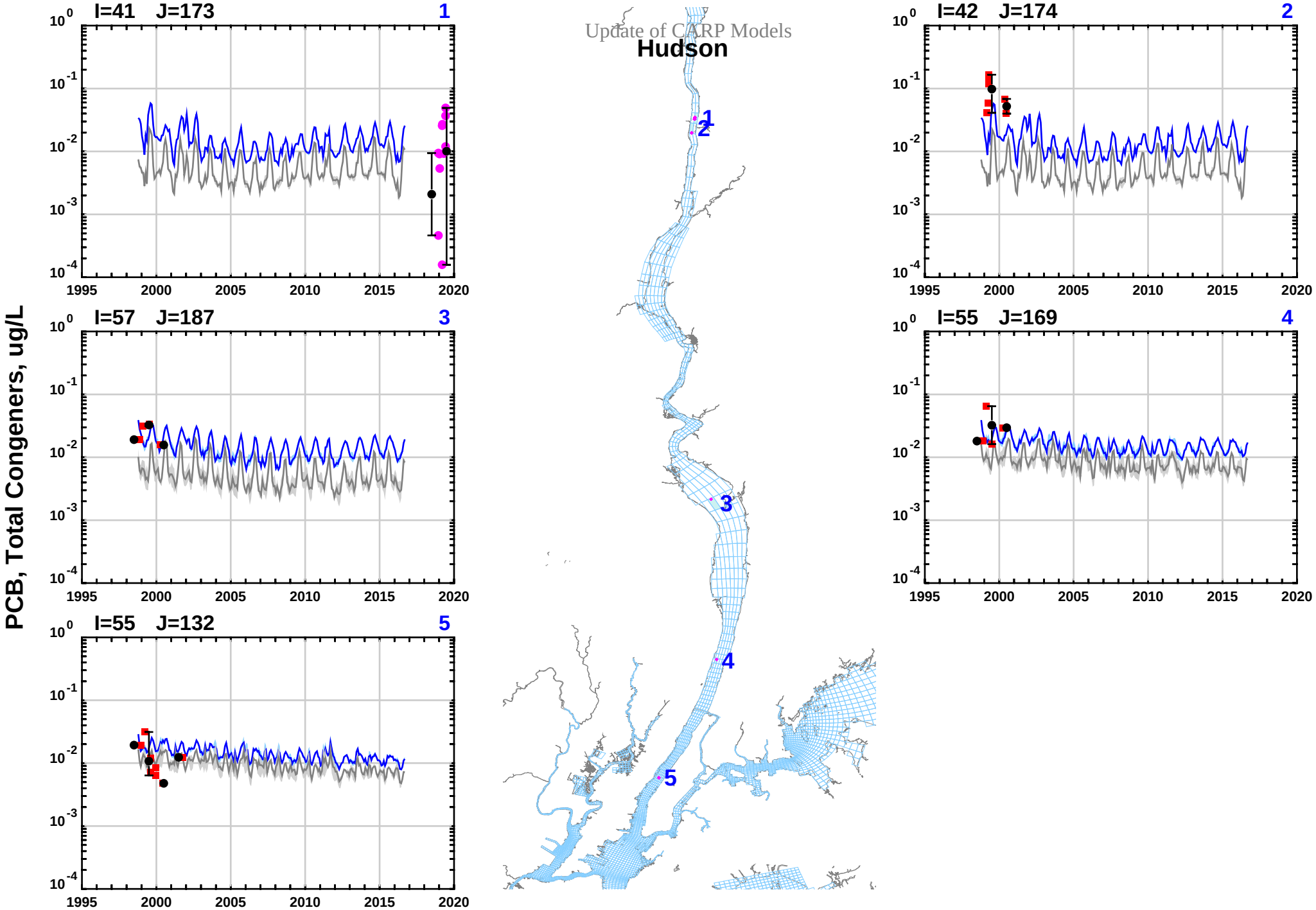

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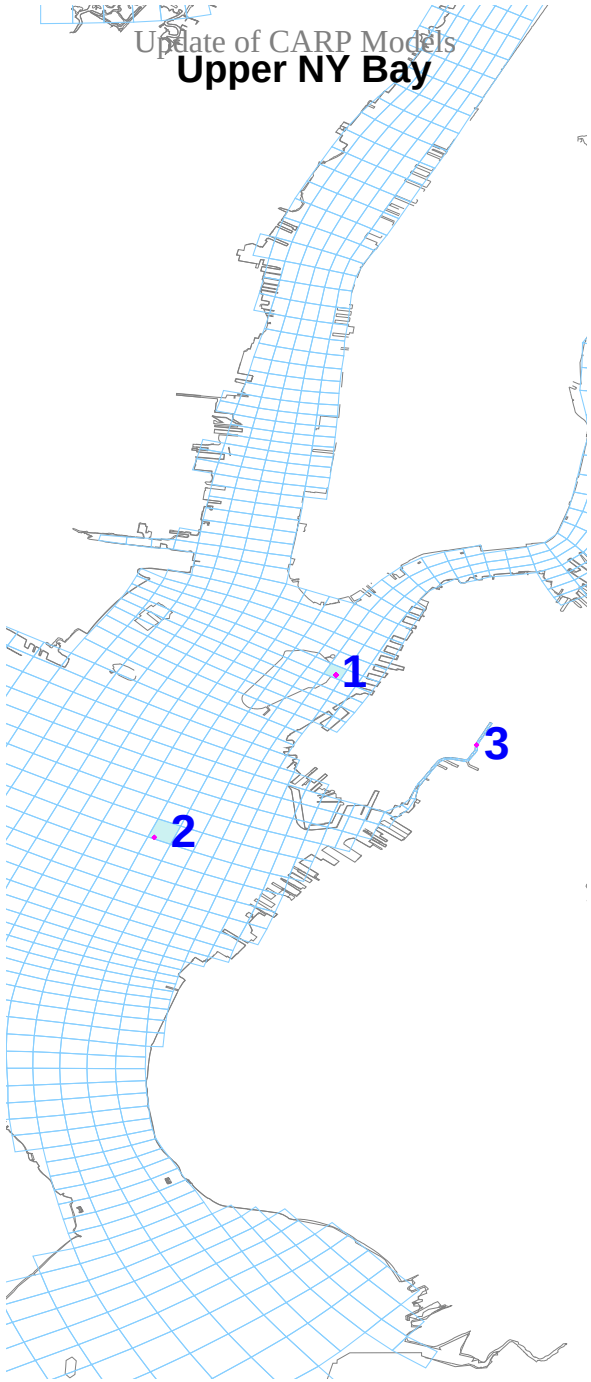

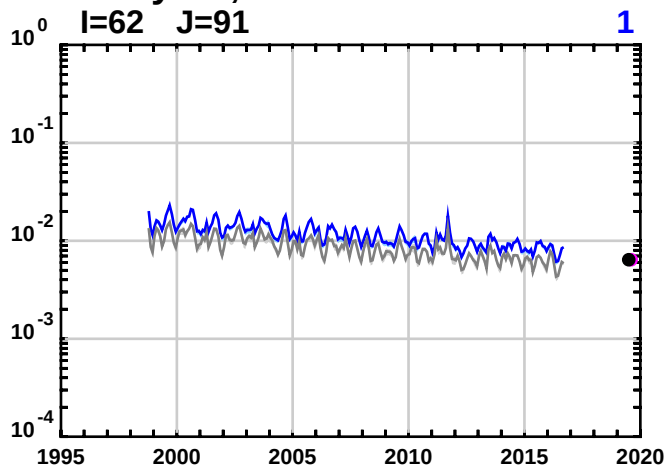

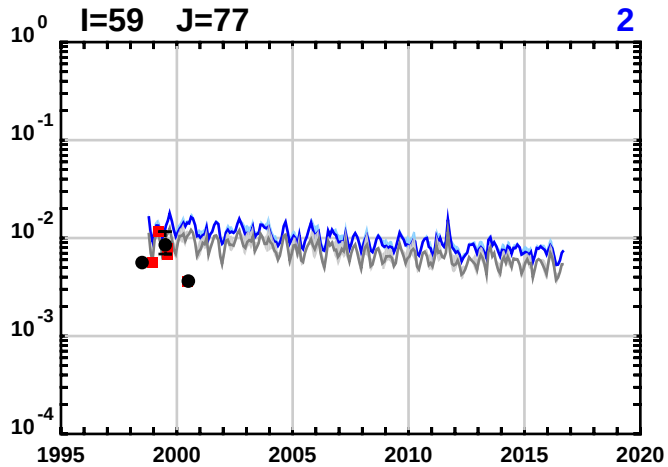

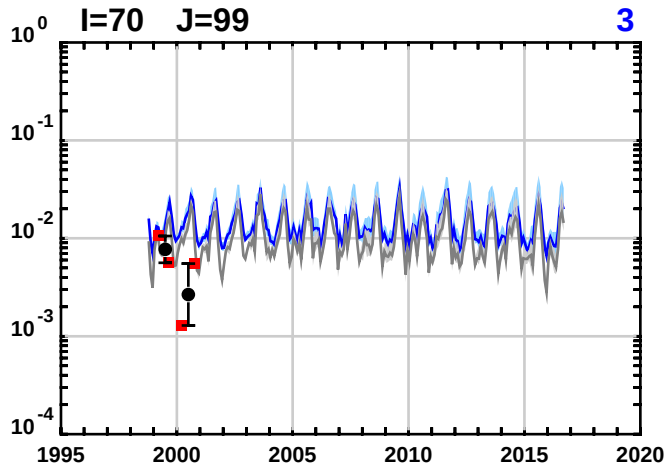

PCB, Total Congeners, ug/L

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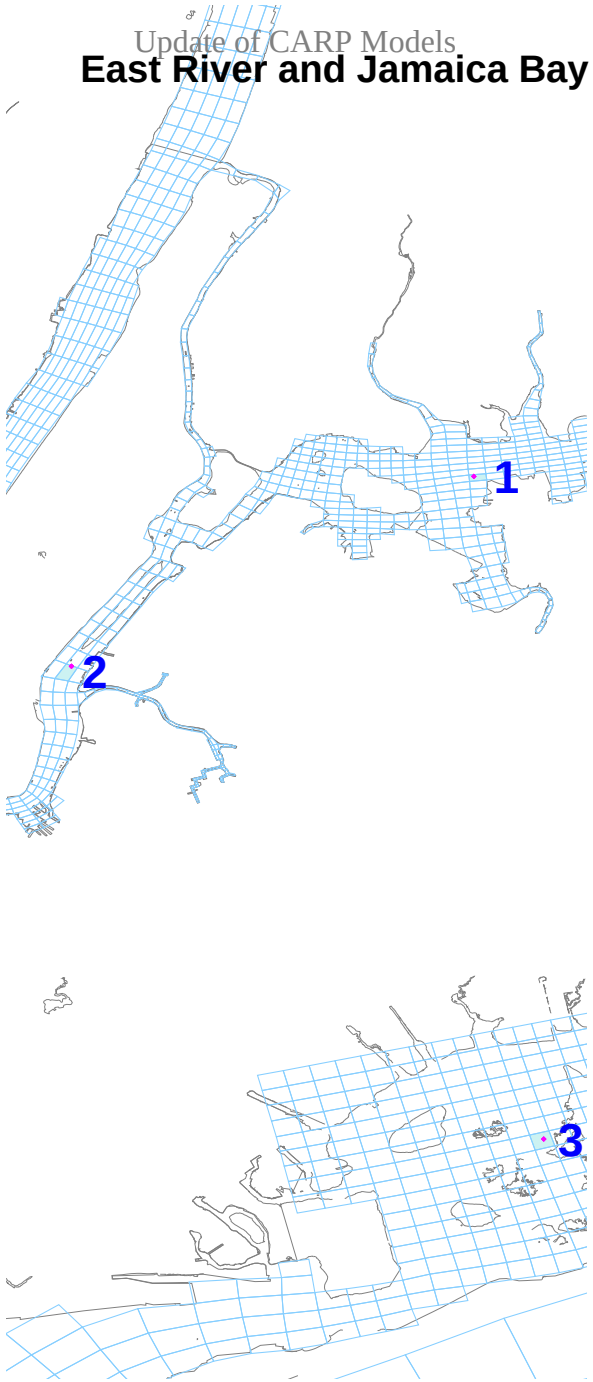
● CARP2 Data

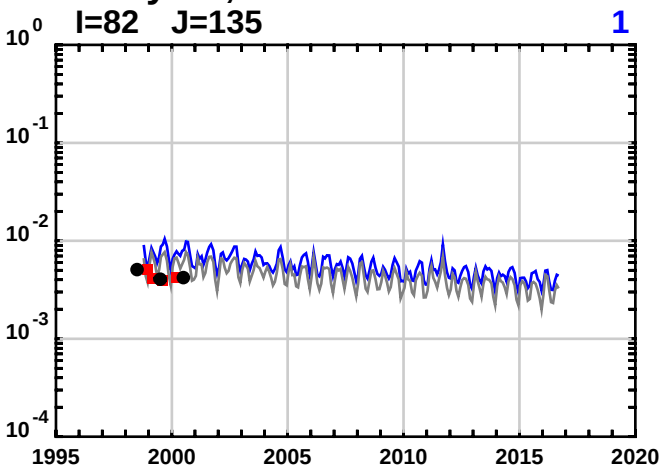
Water Column Data Comparison With Model All Water Column Layers, RUN18

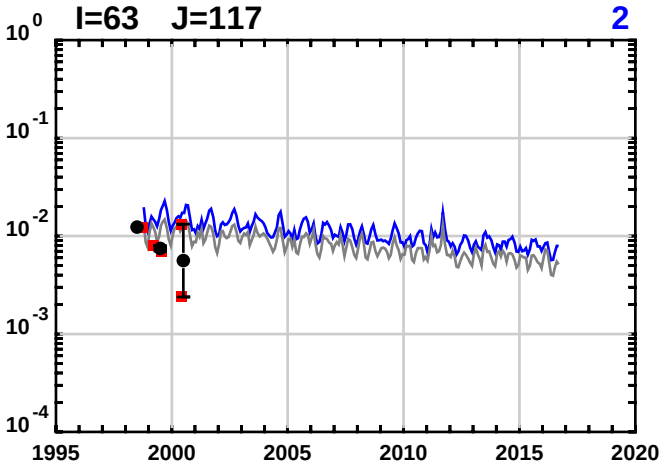
Update of CARP Models

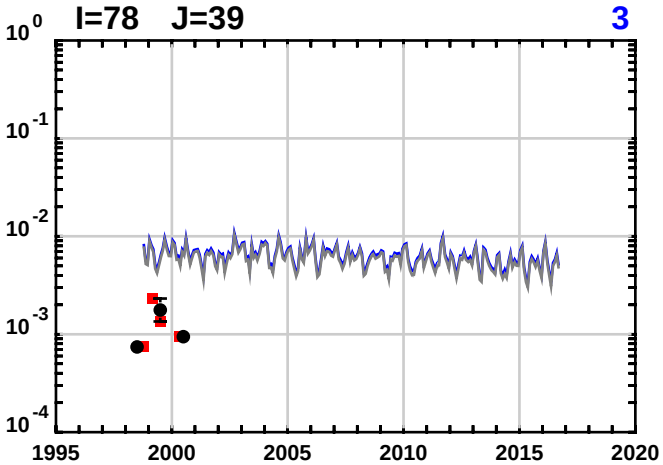
East River and Jamaica Bay

PCB, Total Congeners, ug/L









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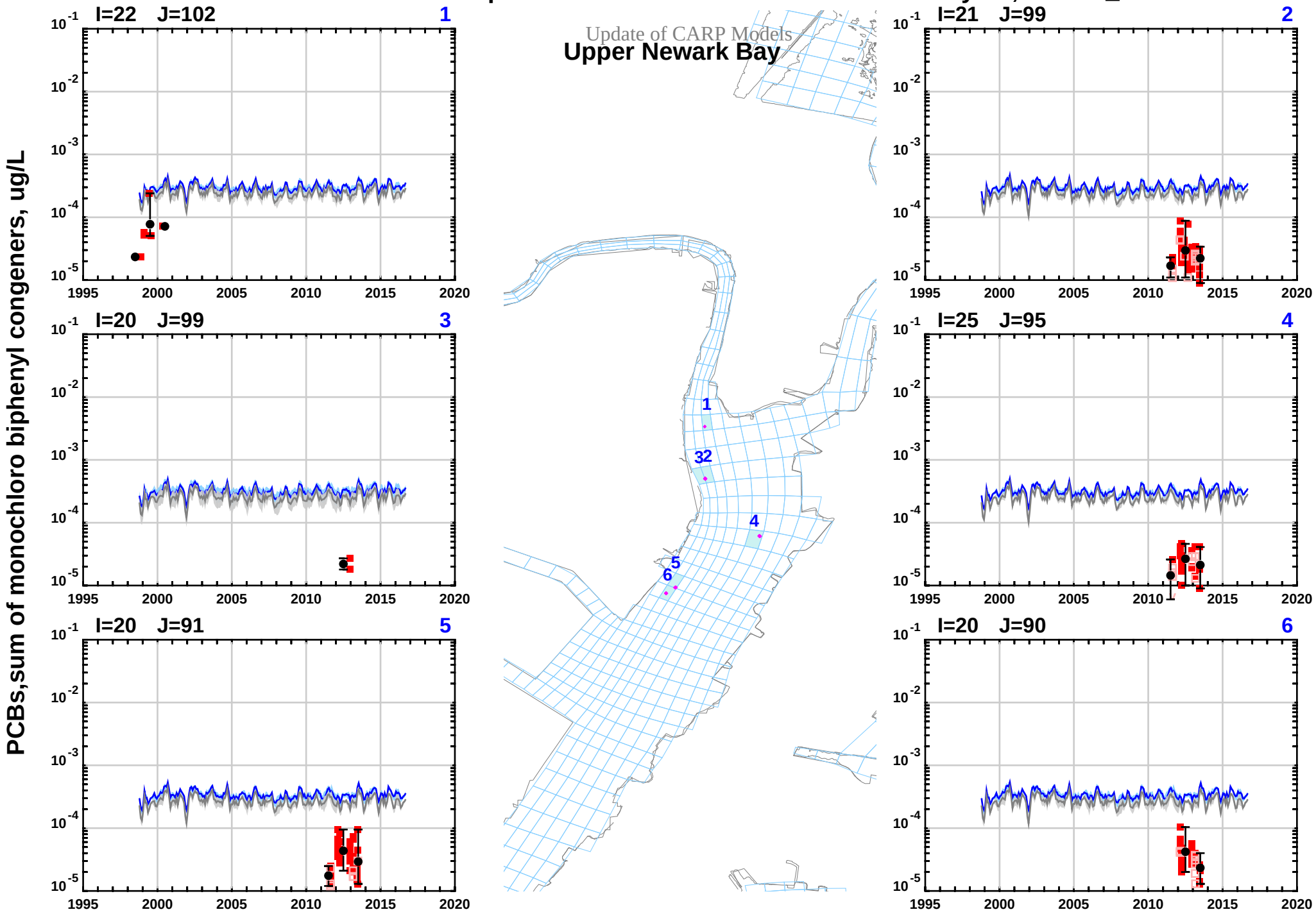
Water Column Data Comparison With Model All Water Column Layers, RUN18_S2



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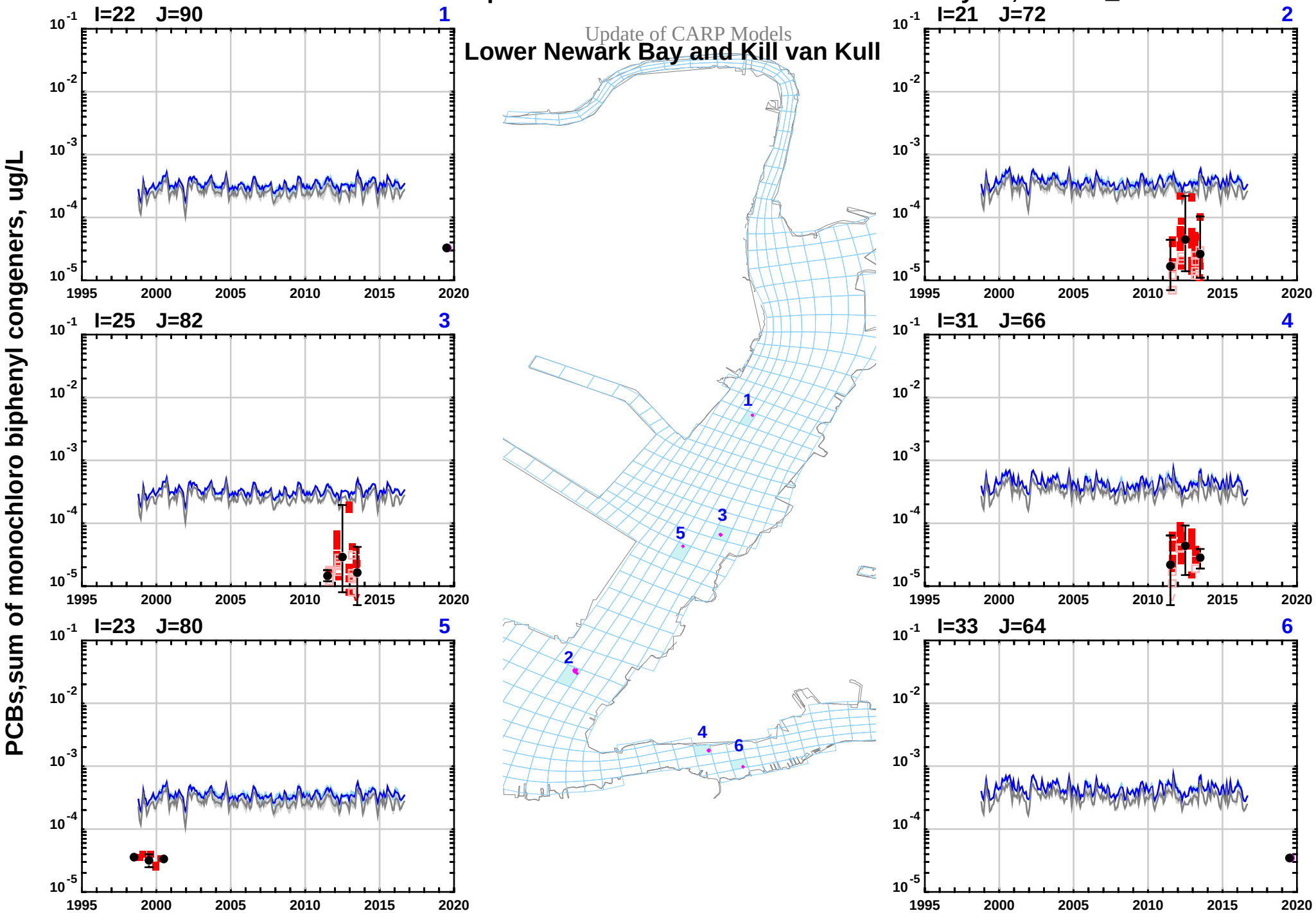
Update of CARP Models

Lower Newark Bay and Kill van Kull



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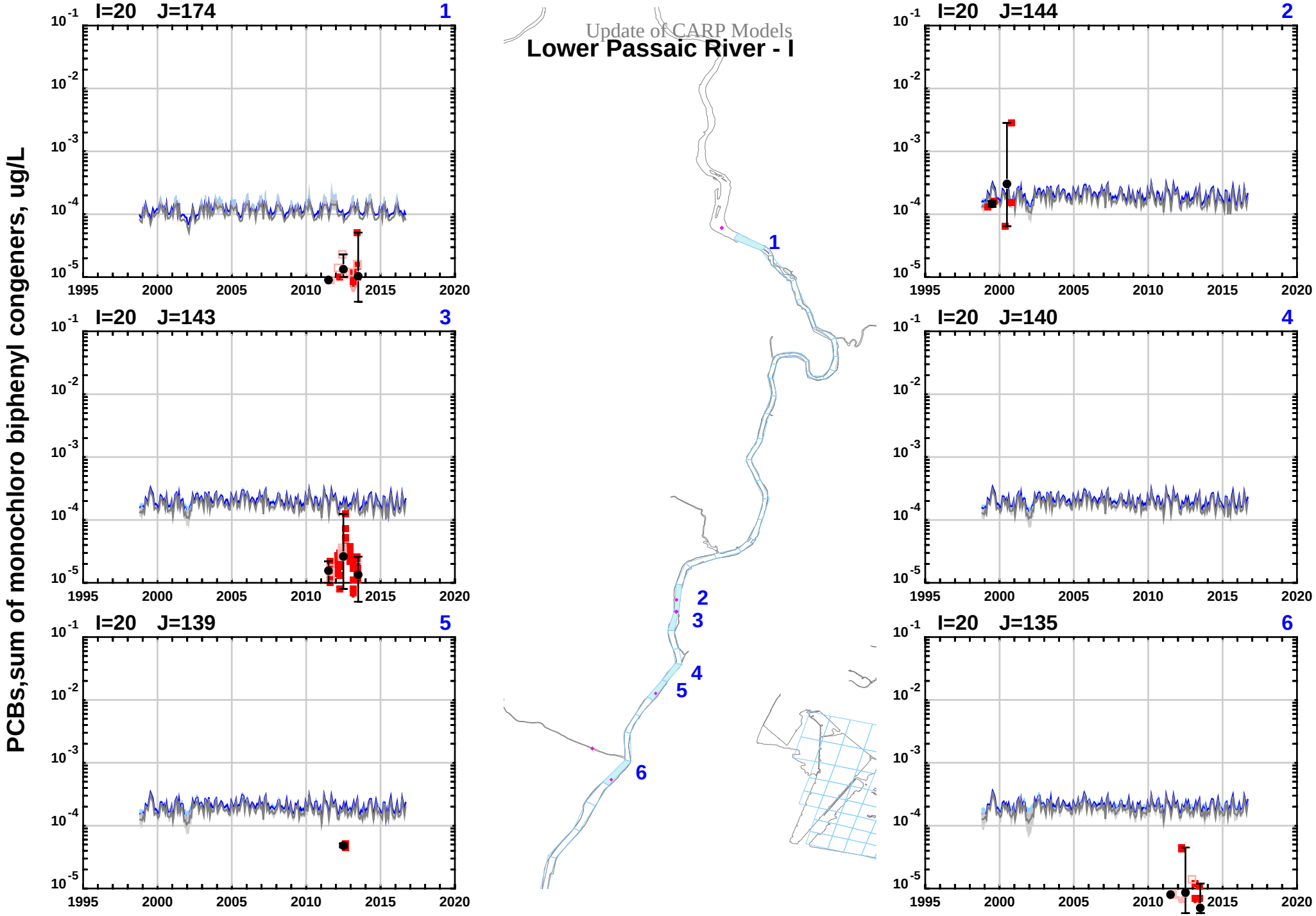

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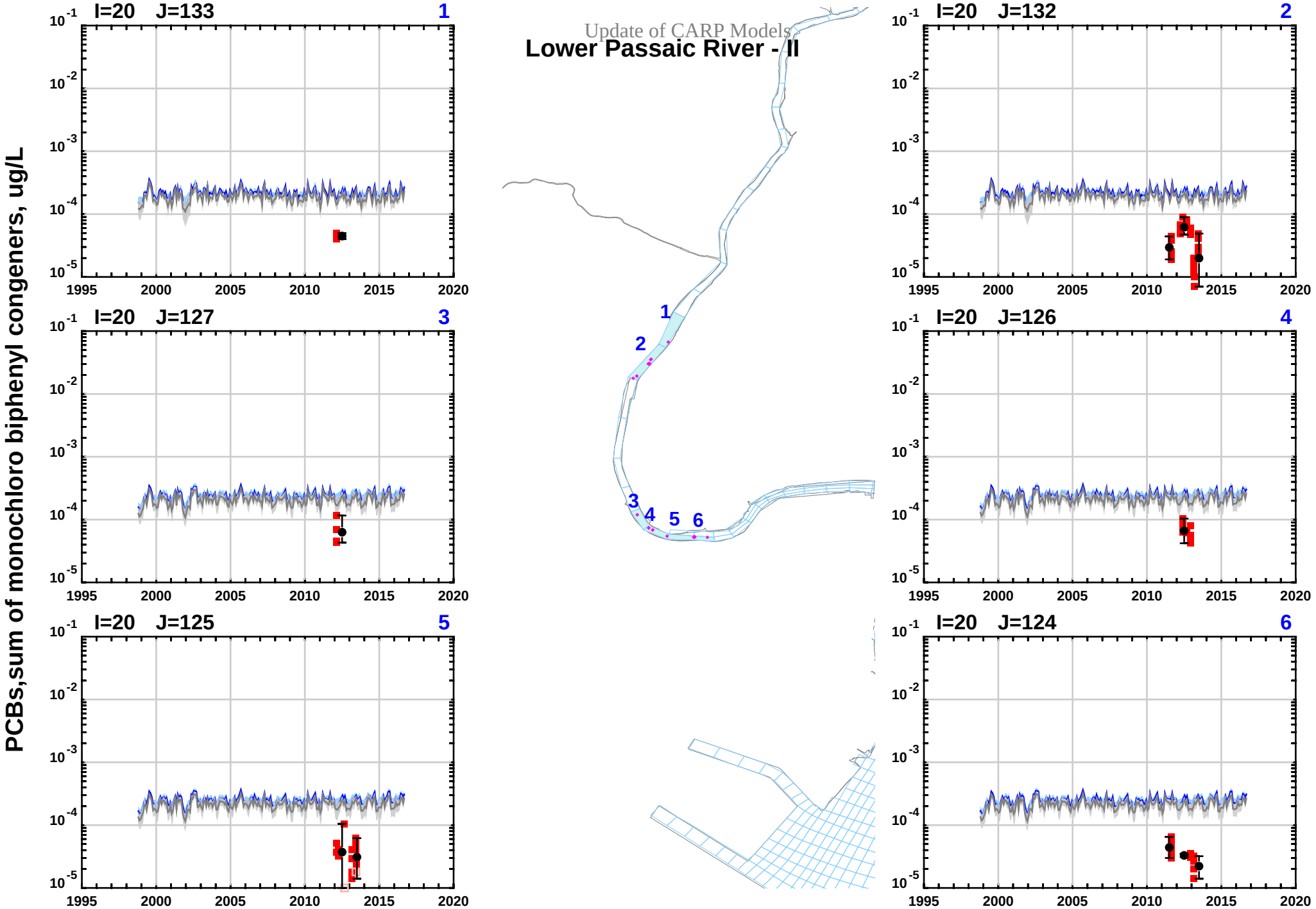

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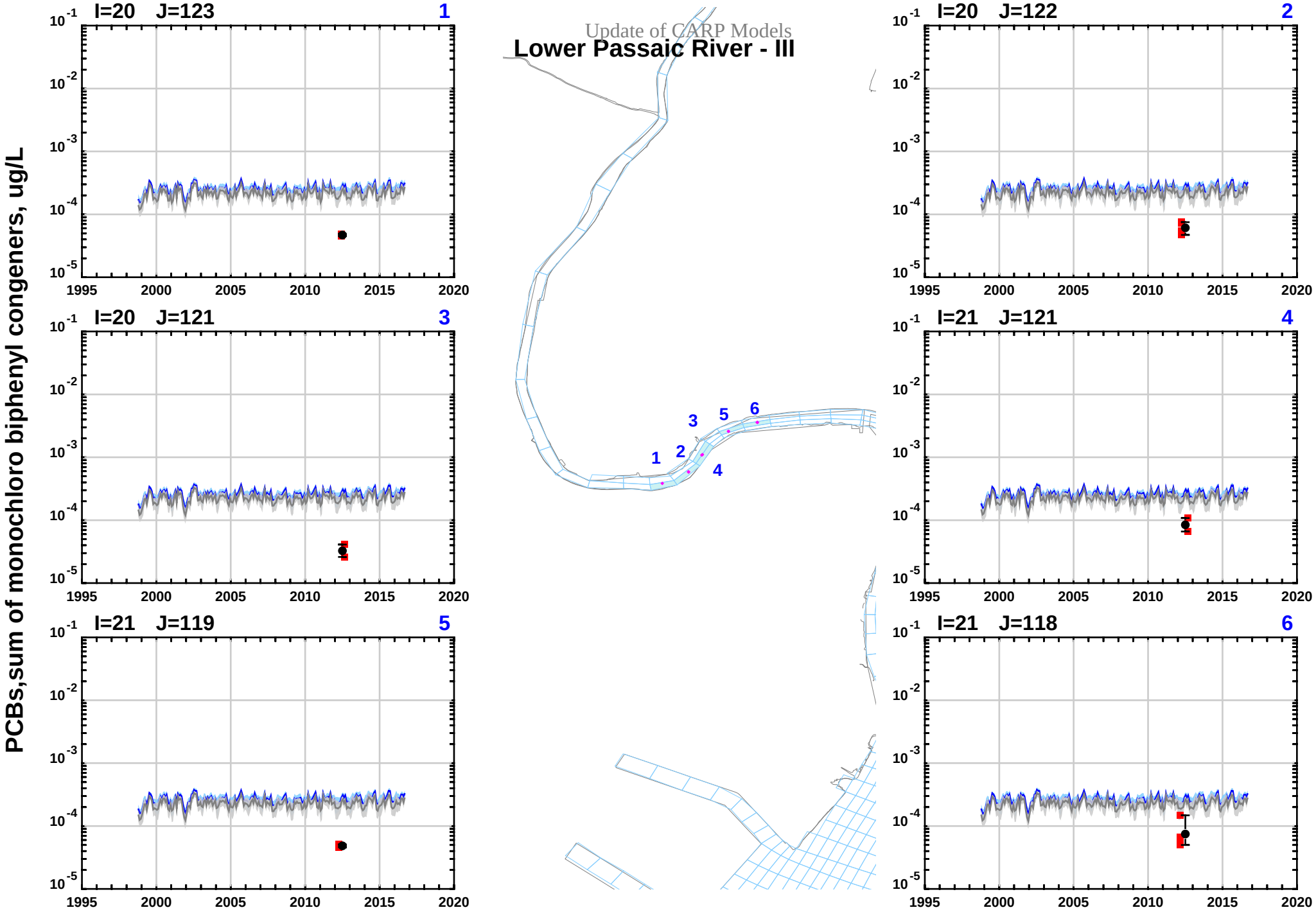

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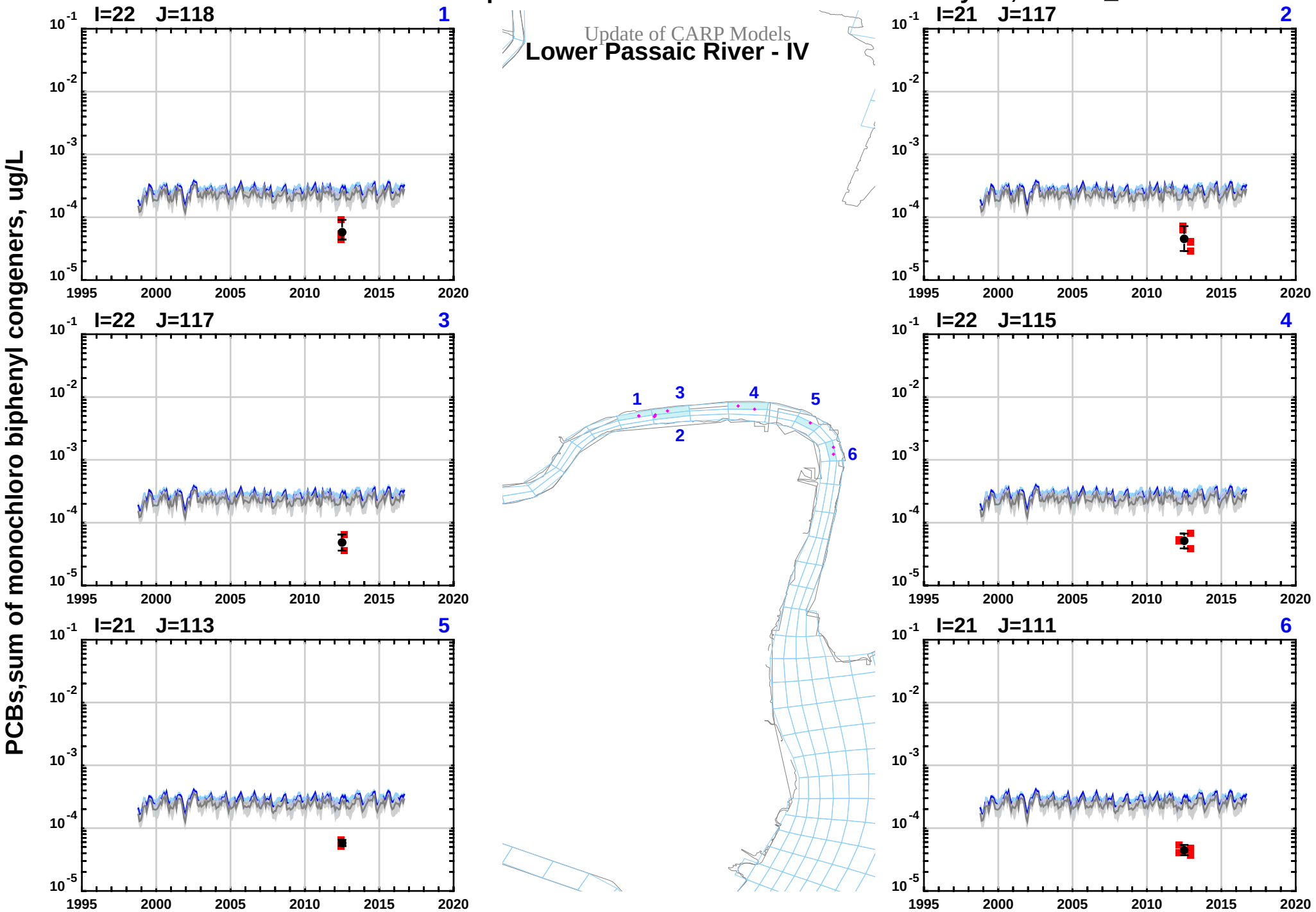
Update of CARP Models

Lower Passaic River - IV



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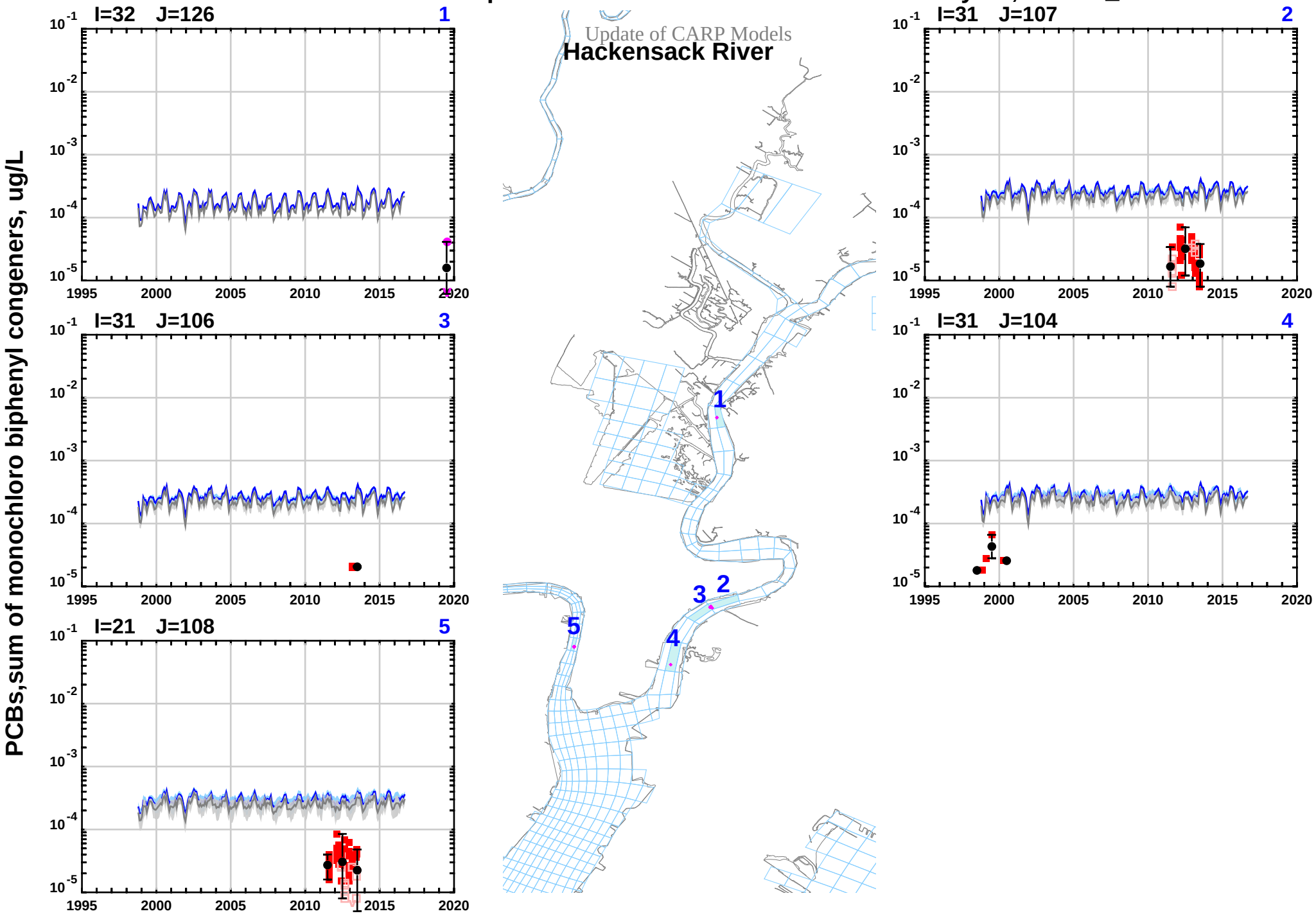

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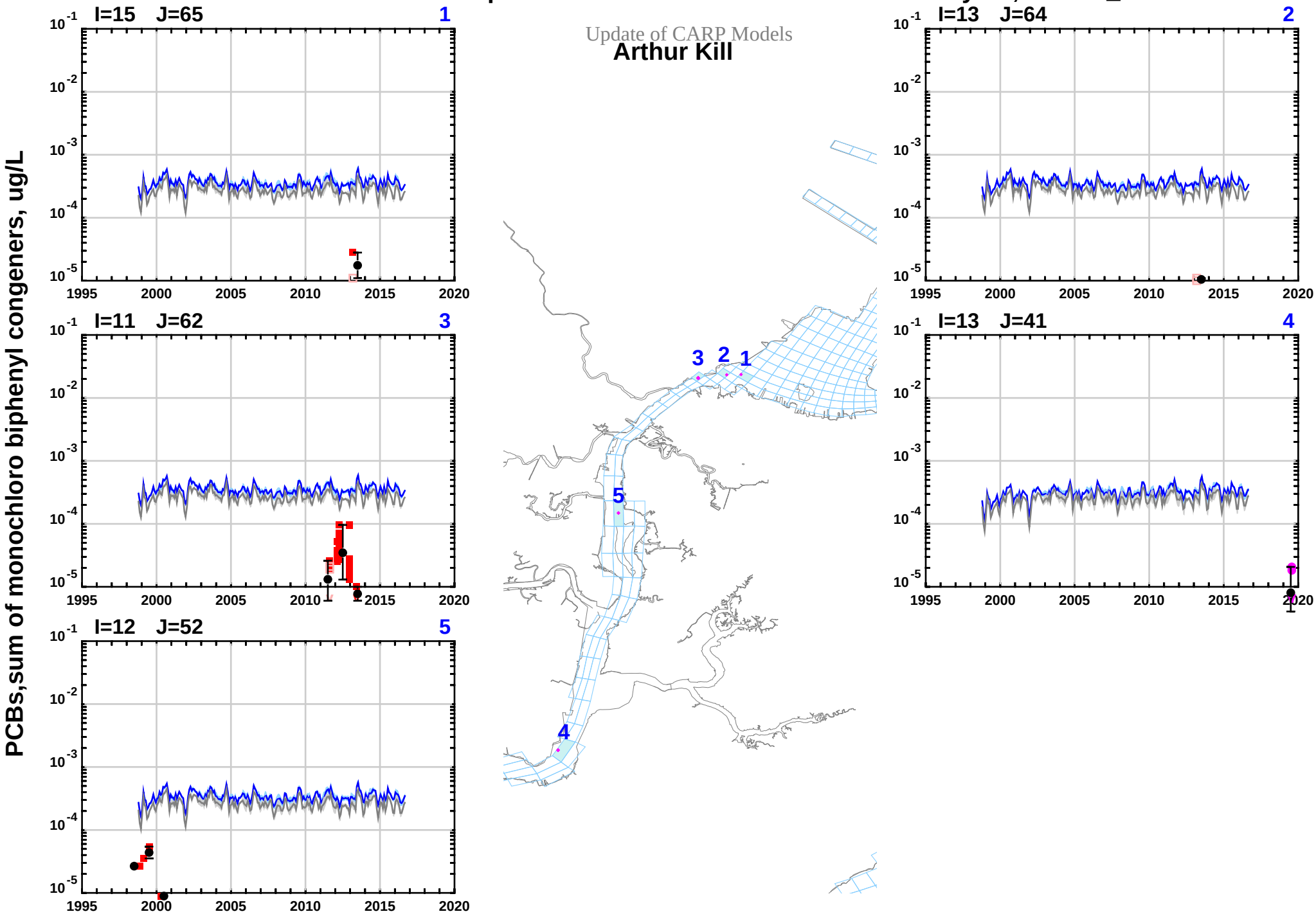

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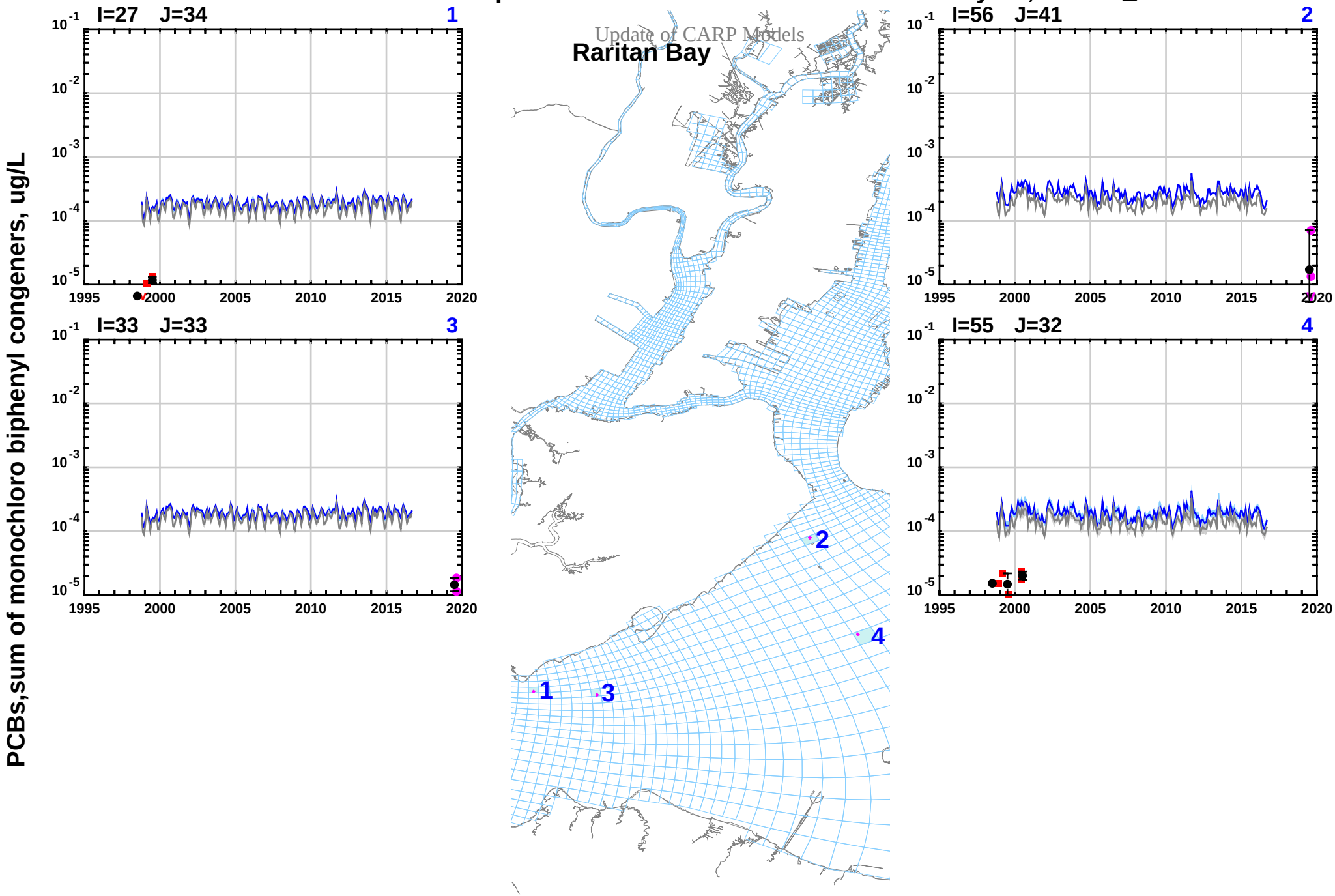

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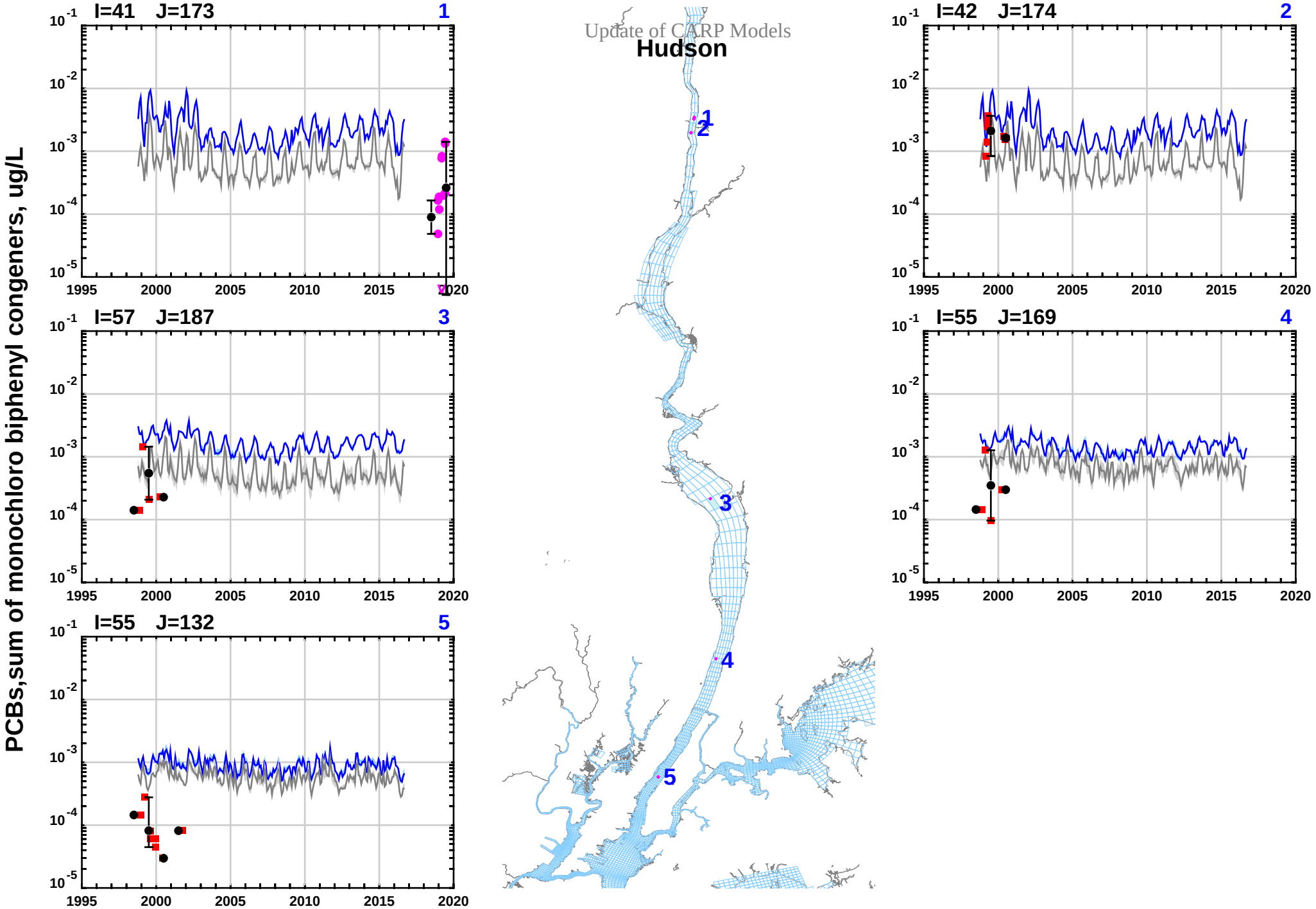

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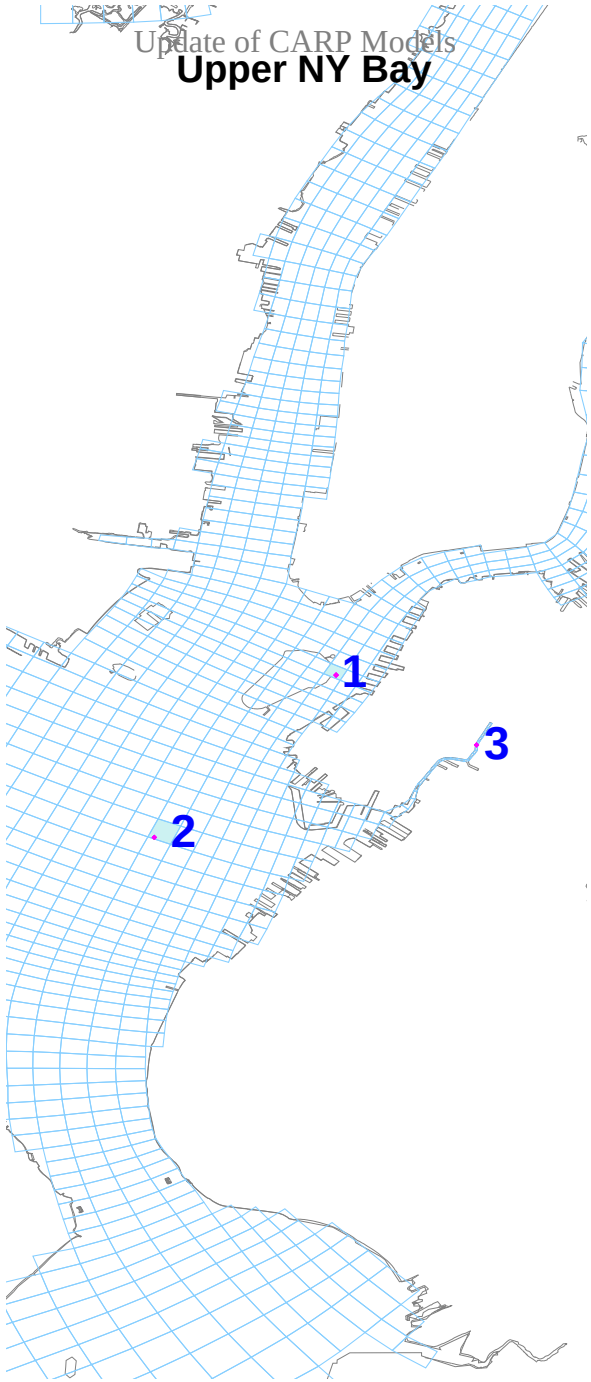
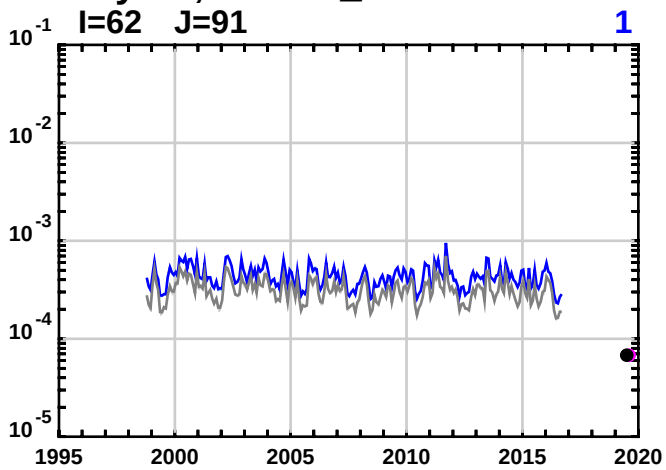
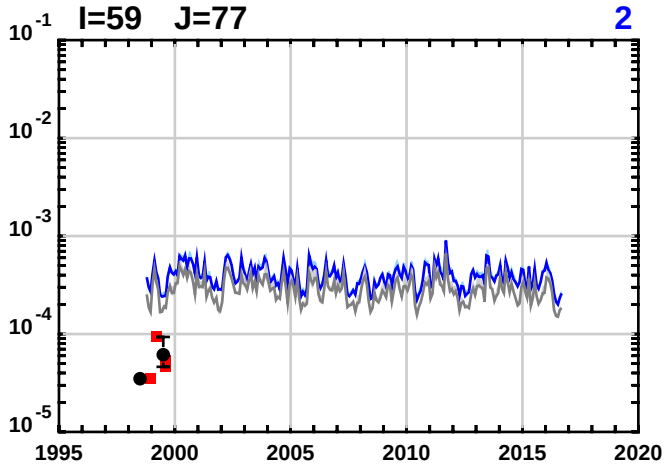
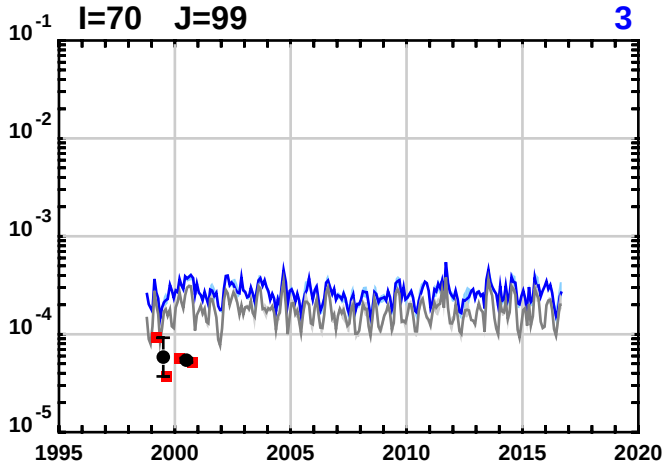
PCBs,sum of monochloro biphenyl congeners, ug/L









Water Column Data: yearly mean and range

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Detect Data

Non-Detect Data

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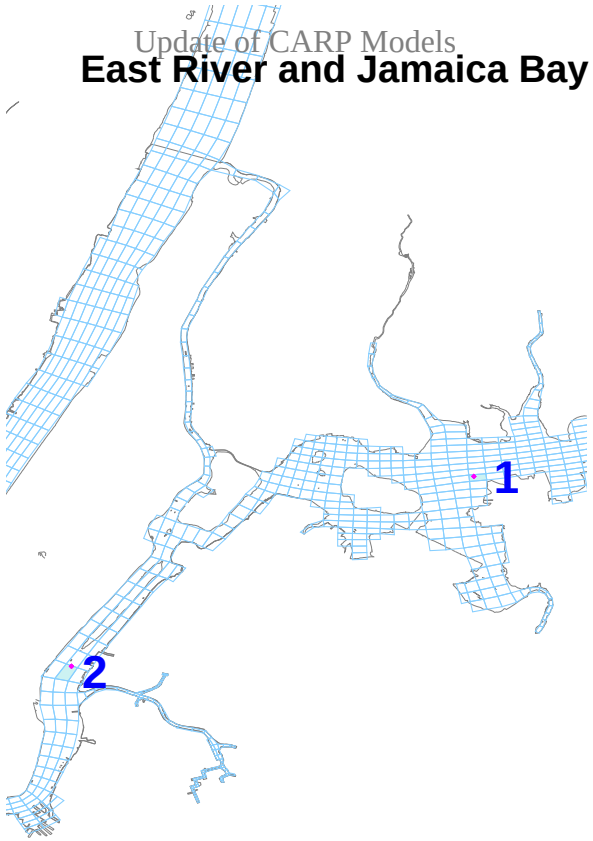
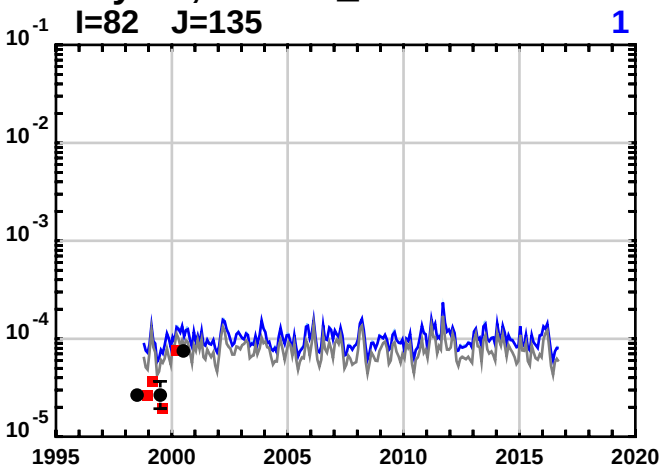
Water Column Data Comparison With Model All Water Column Layers, RUN18_S2

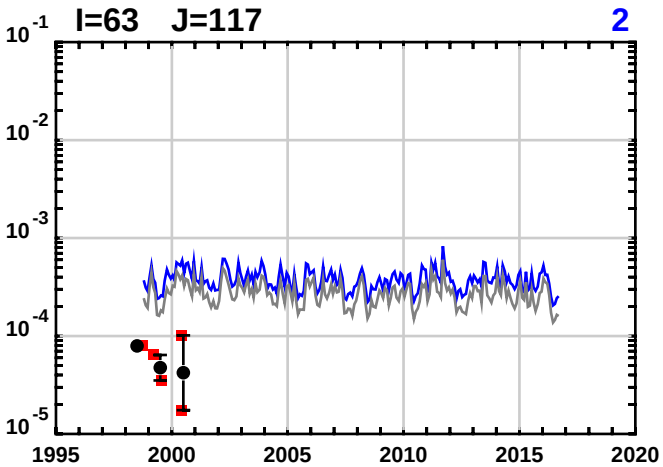
Update of CARP Models

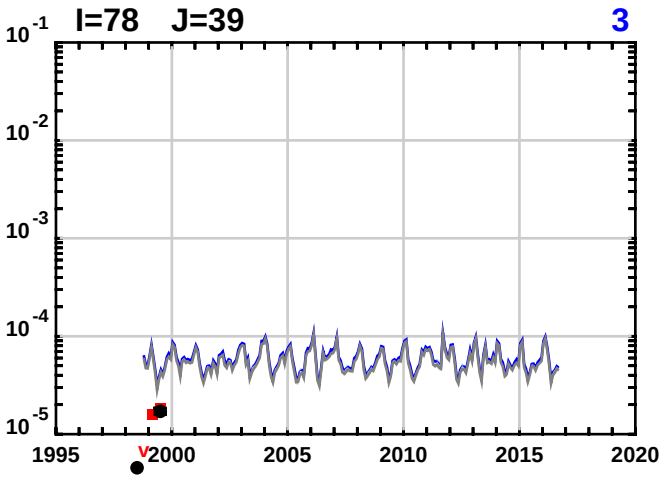
East River and Jamaica Bay

PCBs,sum of monochloro biphenyl congeners, ug/L









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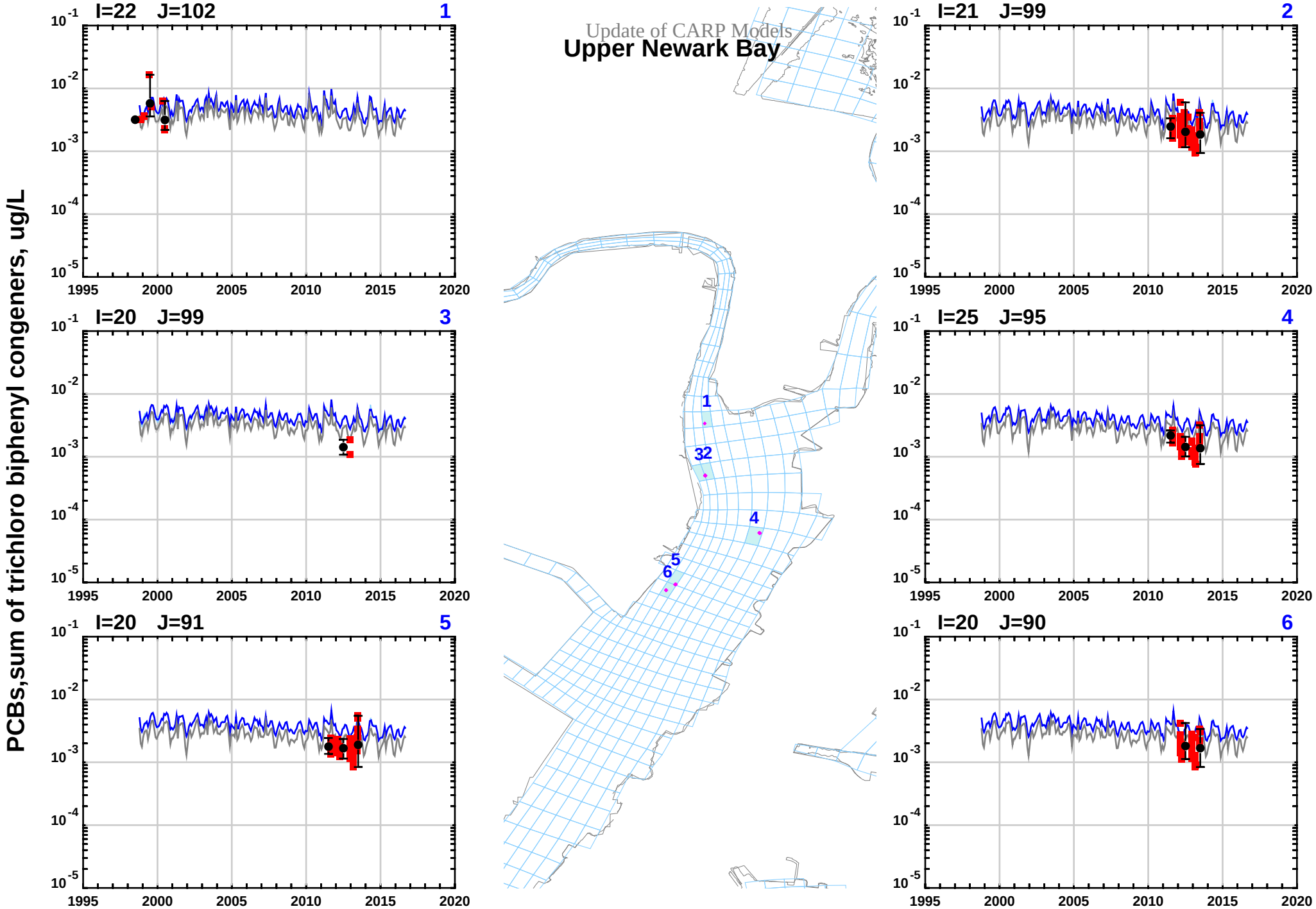
Water Column Data Comparison With Model All Water Column Layers, RUN18_S2



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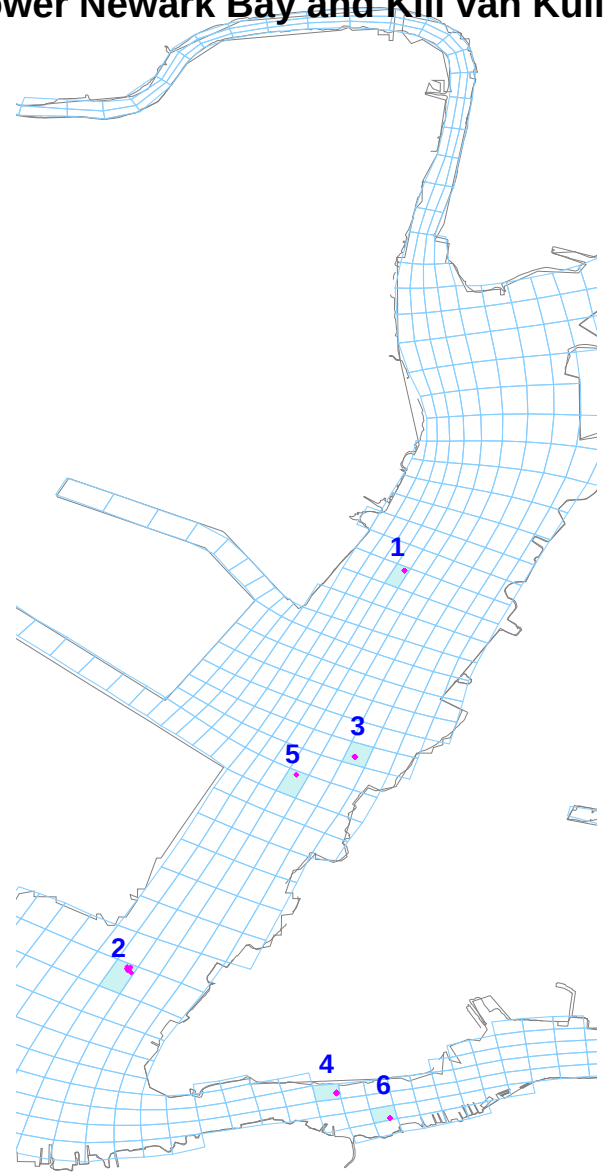
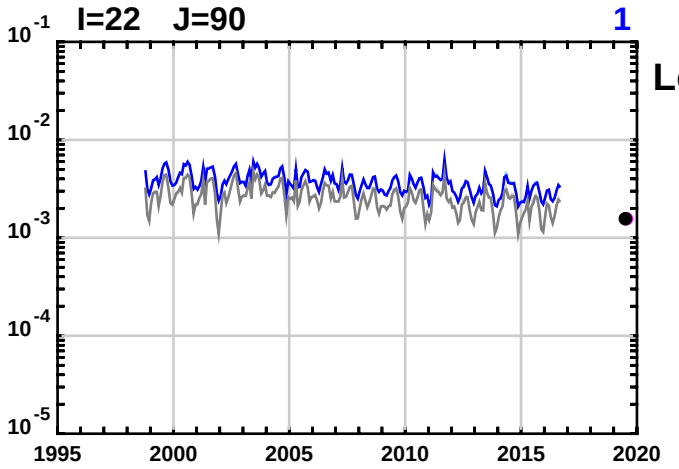
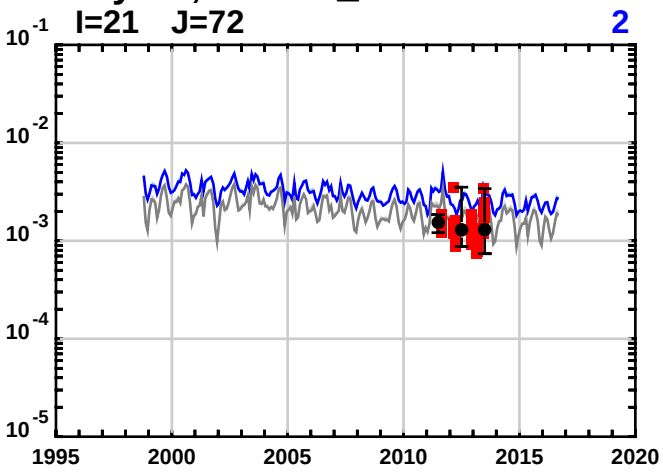
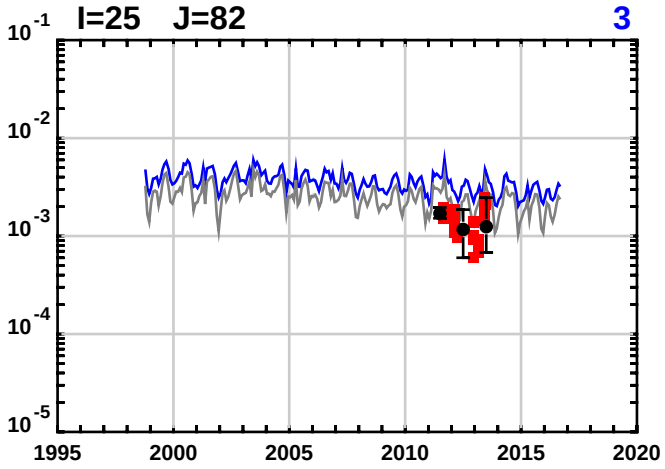
Update of CARP Models

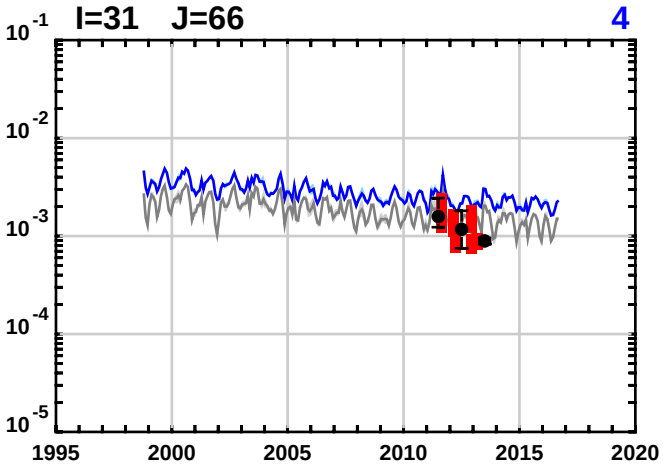
Lower Newark Bay and Kill van Kull

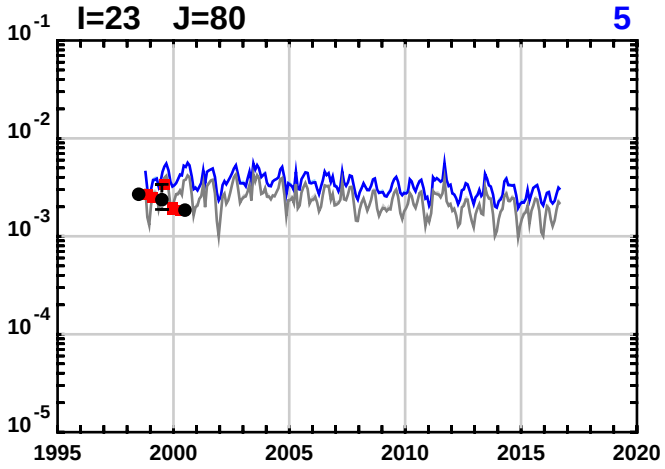


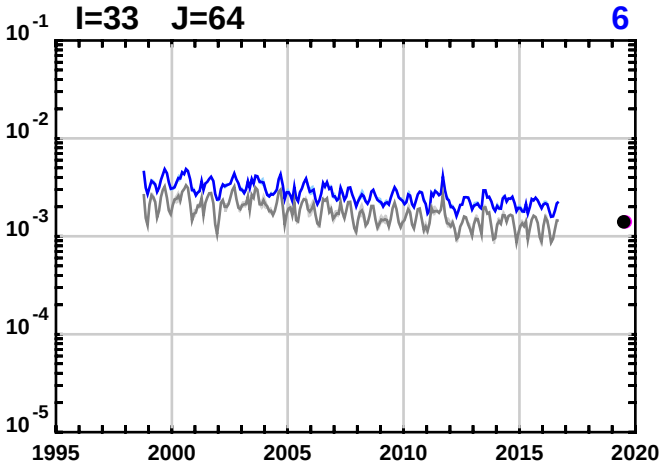












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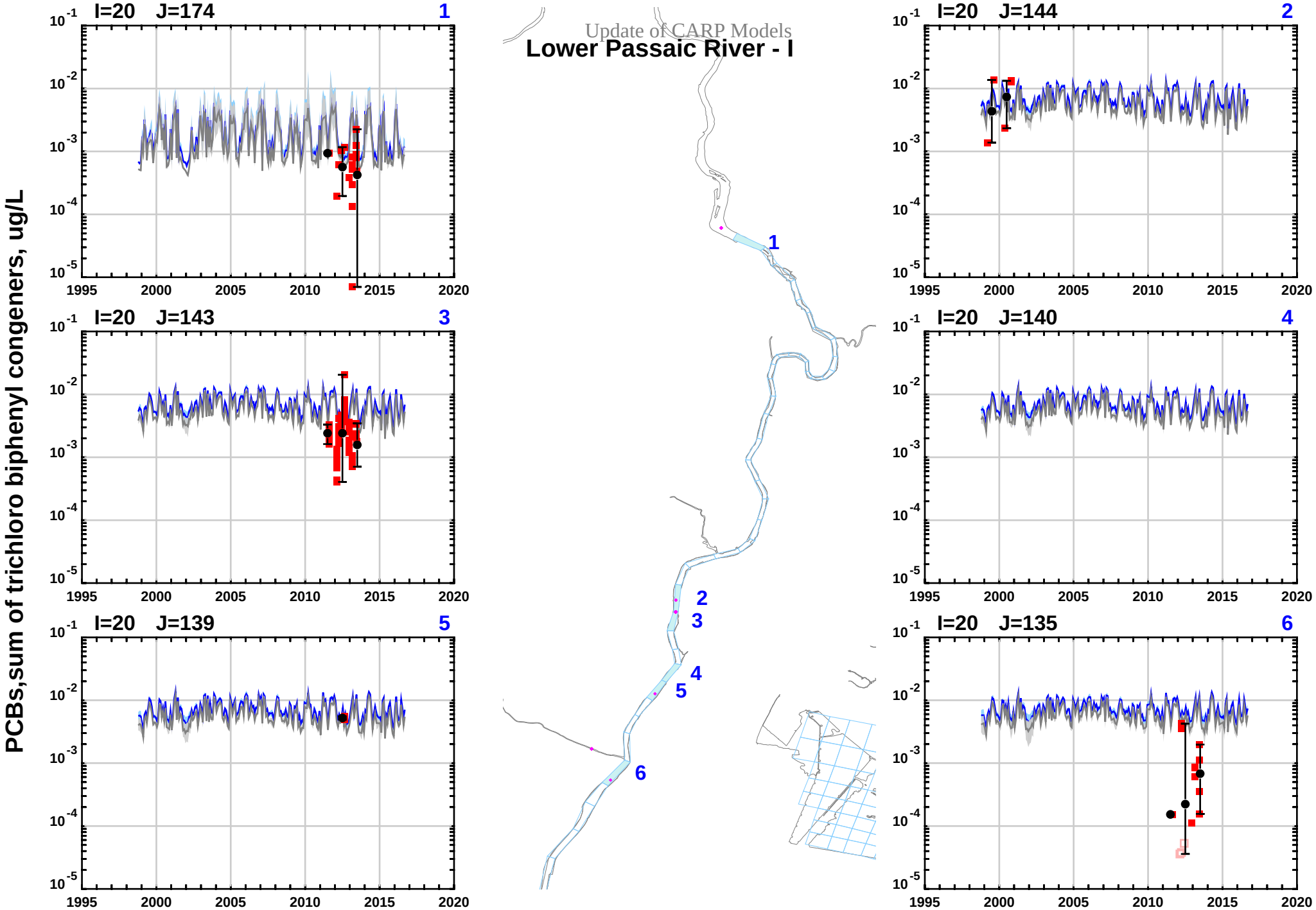
Water Column Data: yearly mean and range

CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_S2



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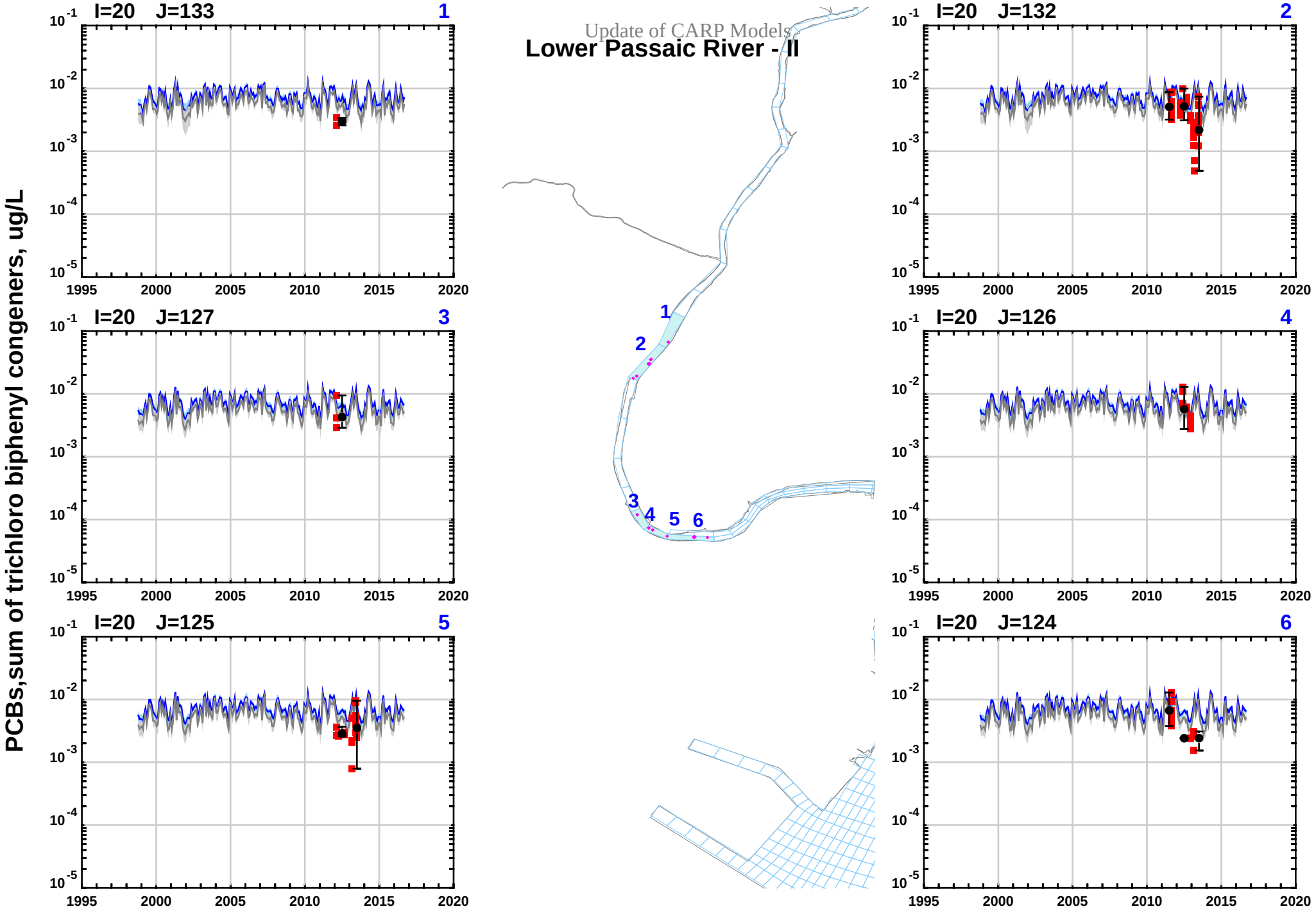

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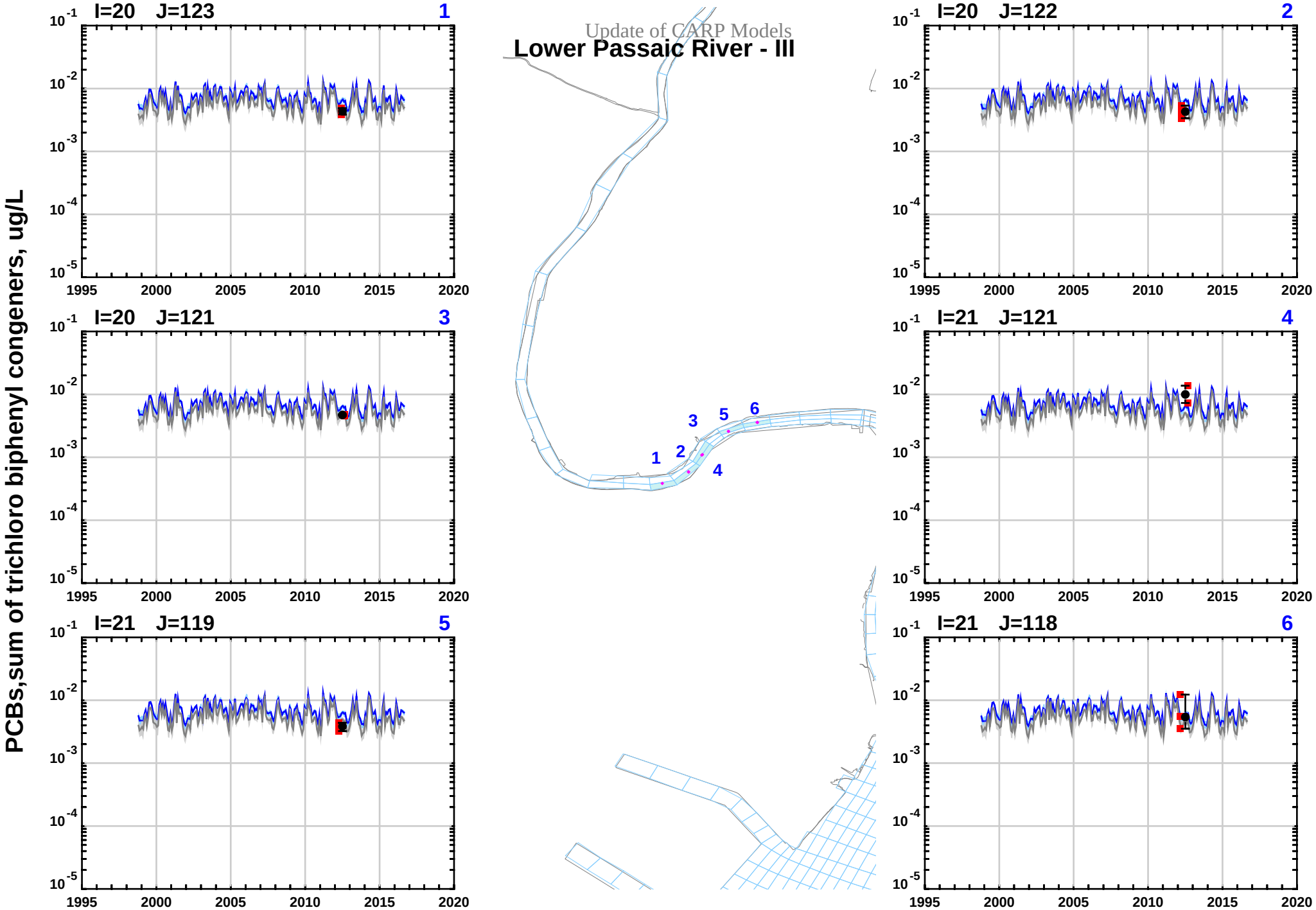

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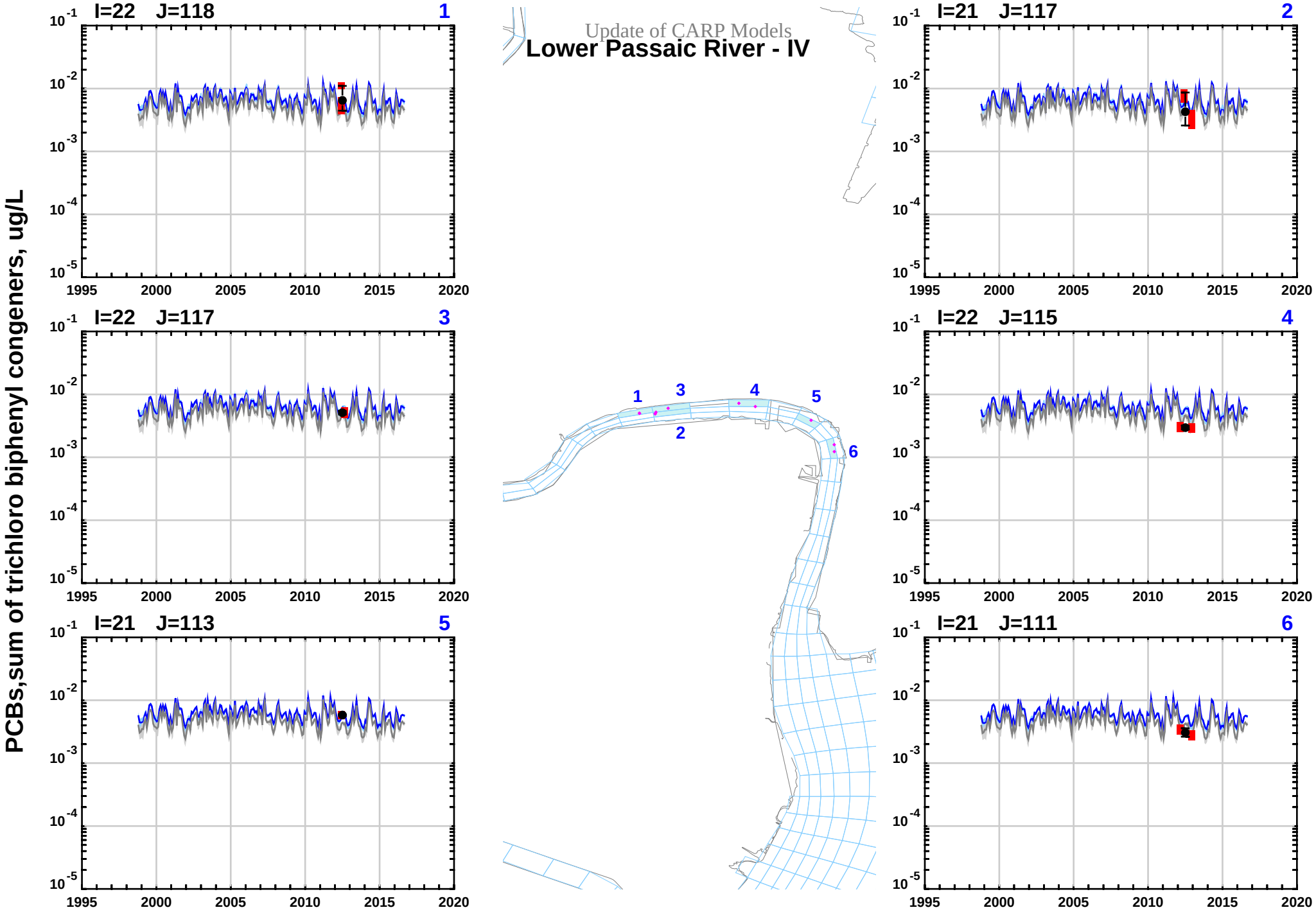

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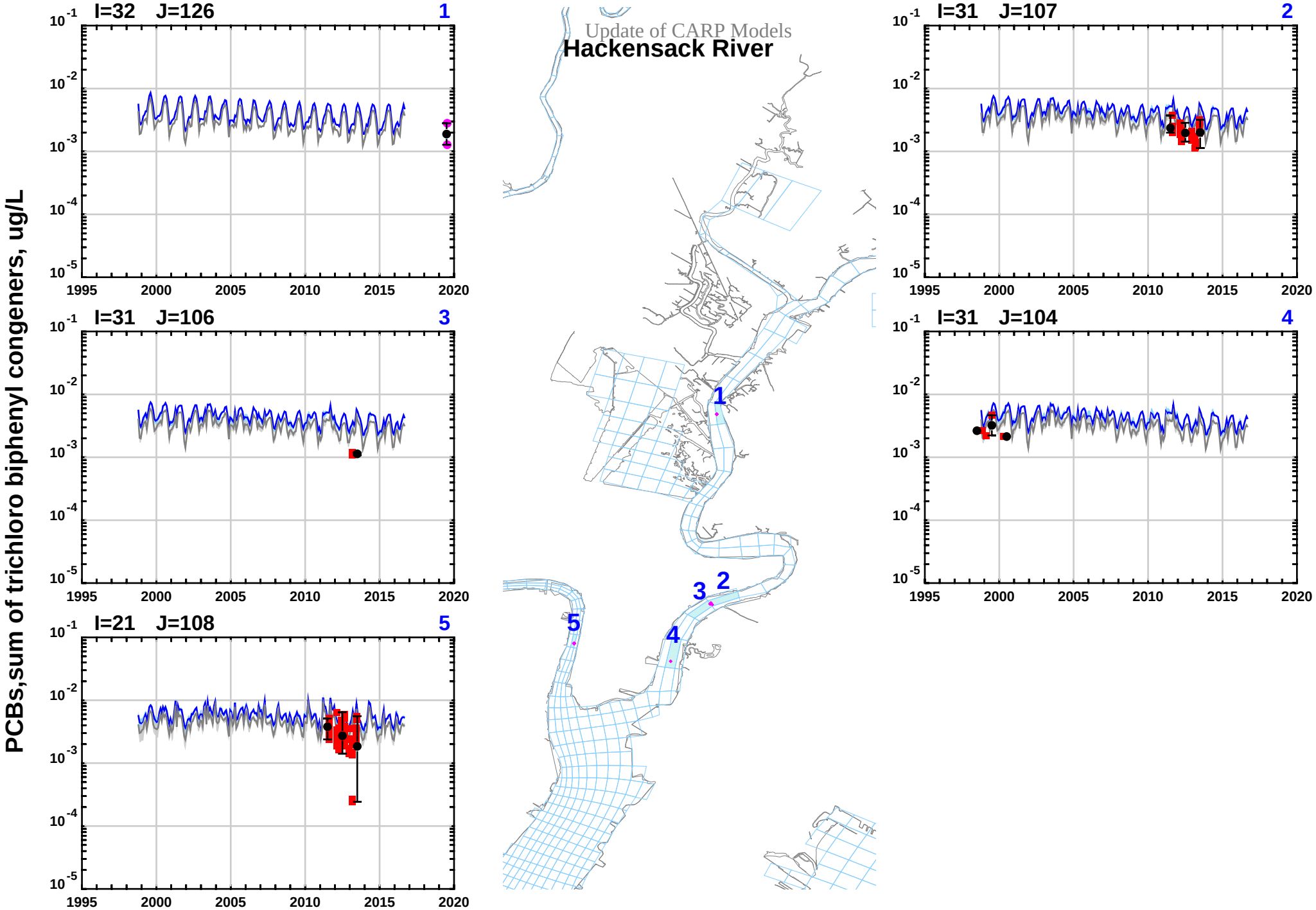

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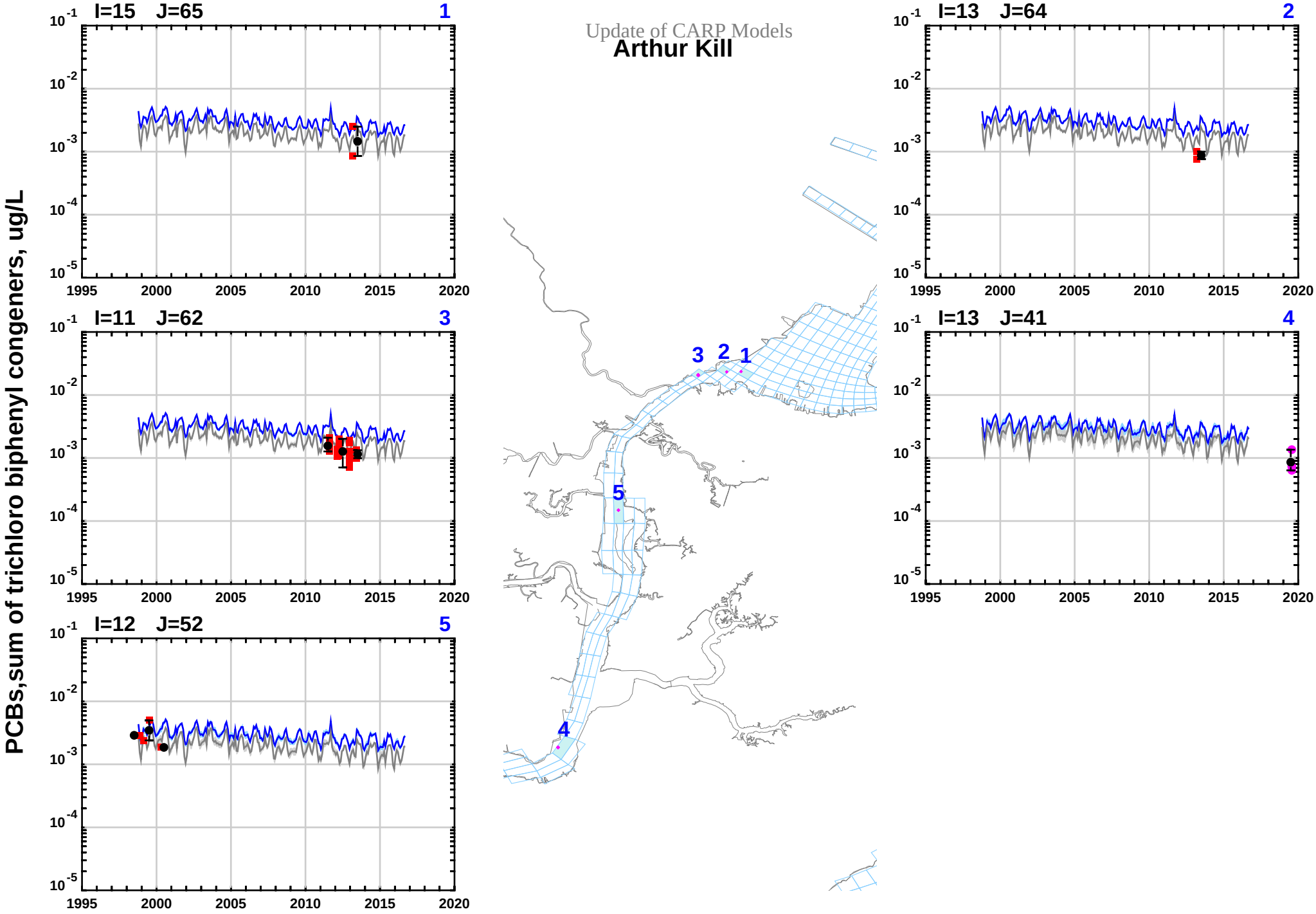
Water Column Data Comparison With Model All Water Column Layers, RUN18_S2

Update of CARP Models

Arthur Kill



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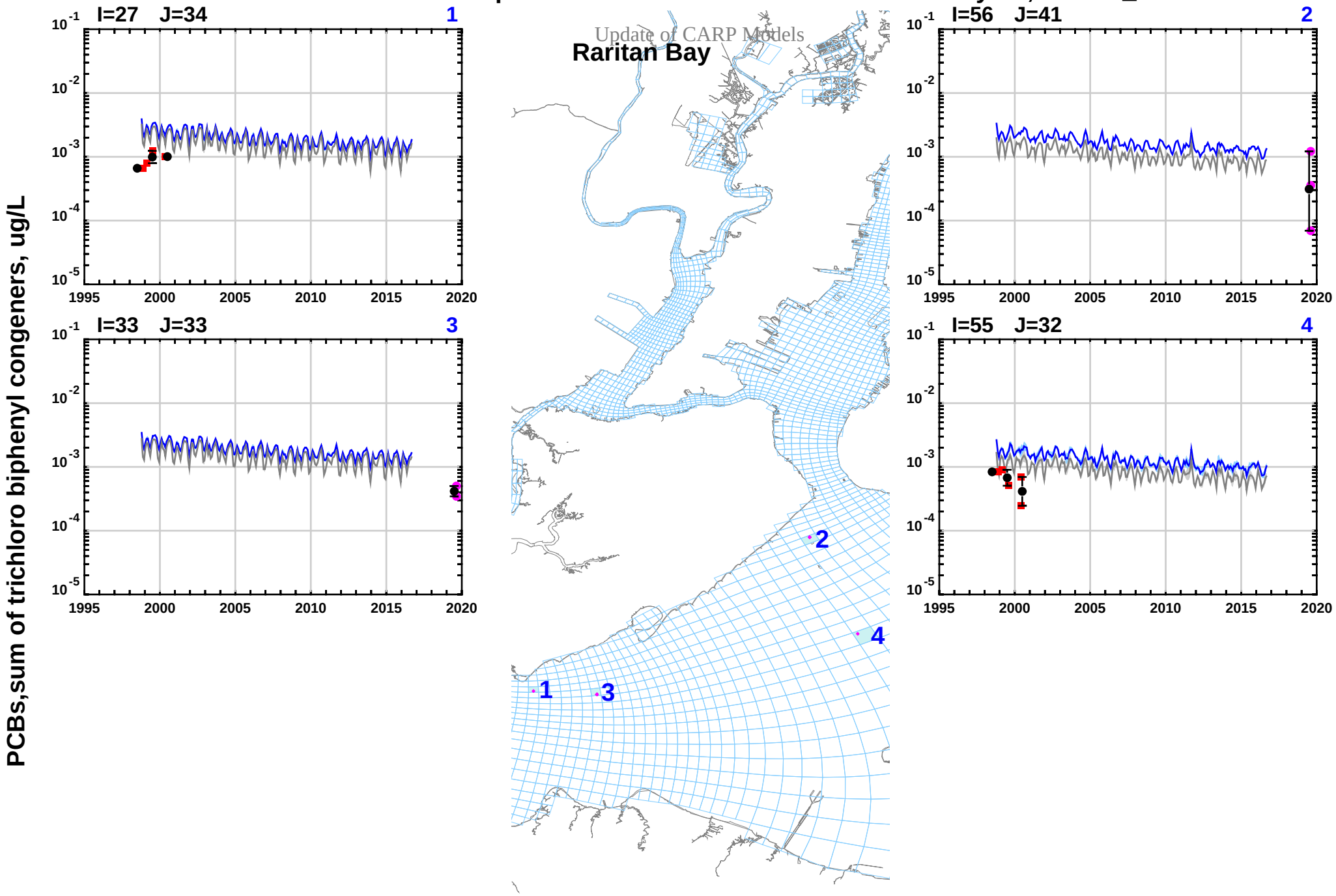

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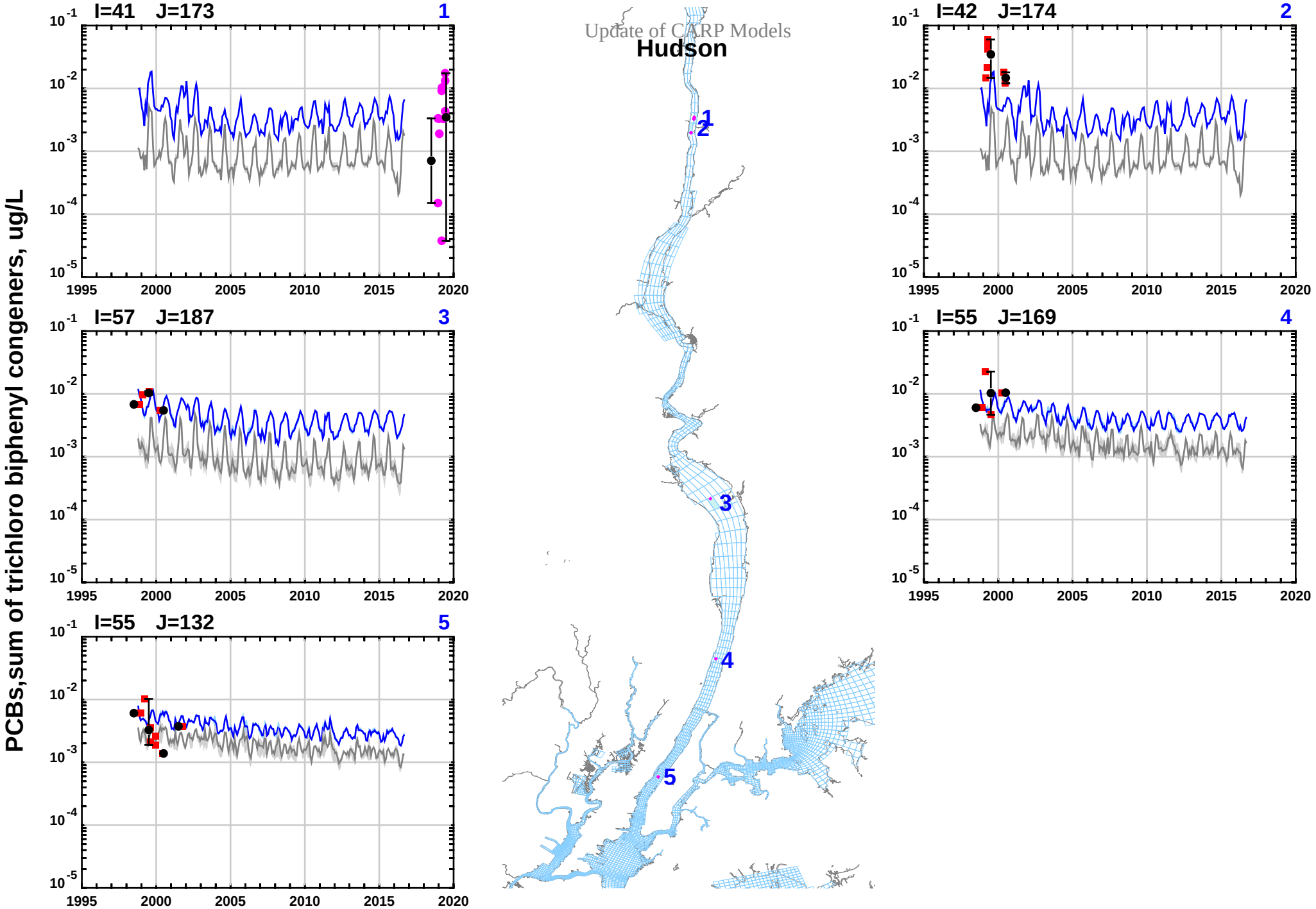

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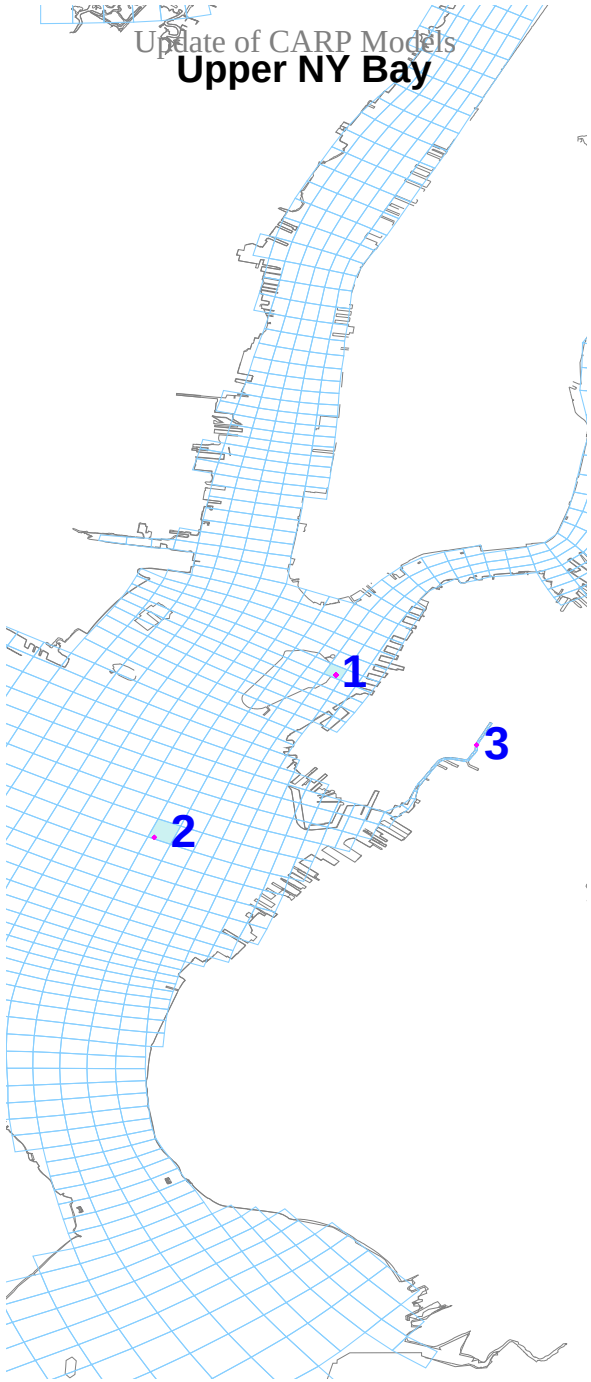

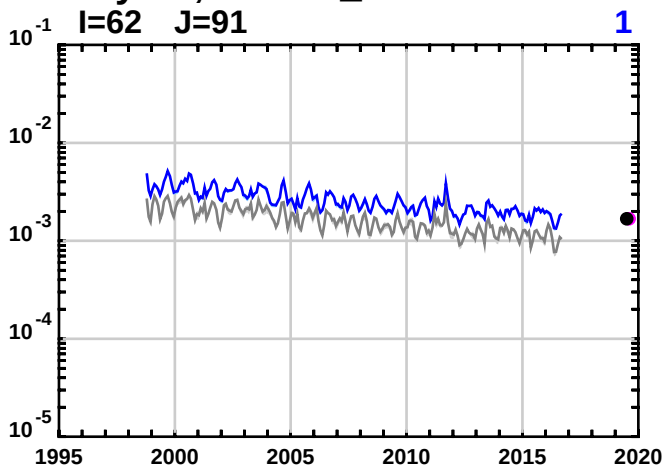

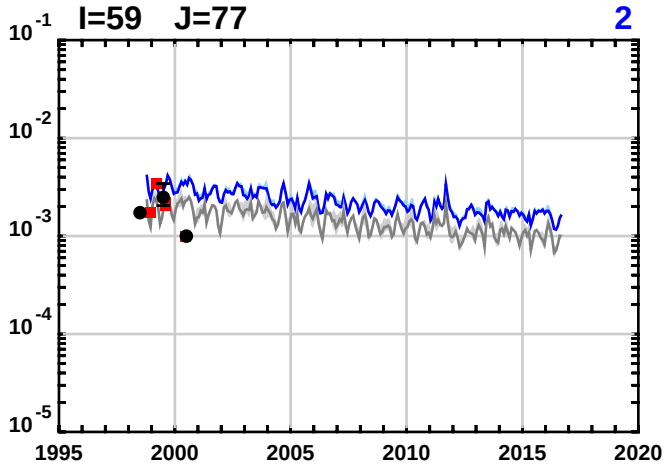

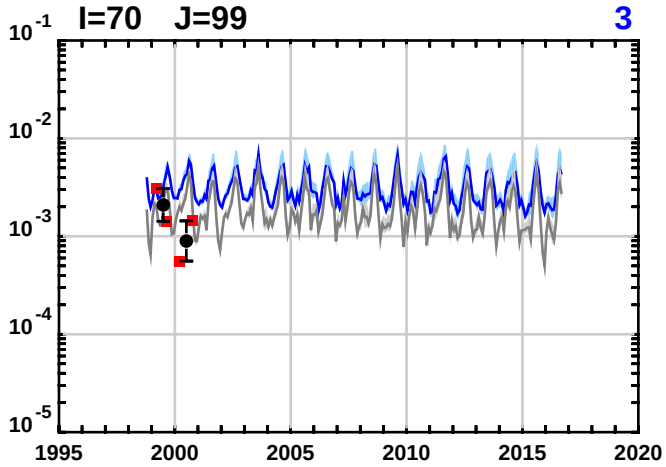

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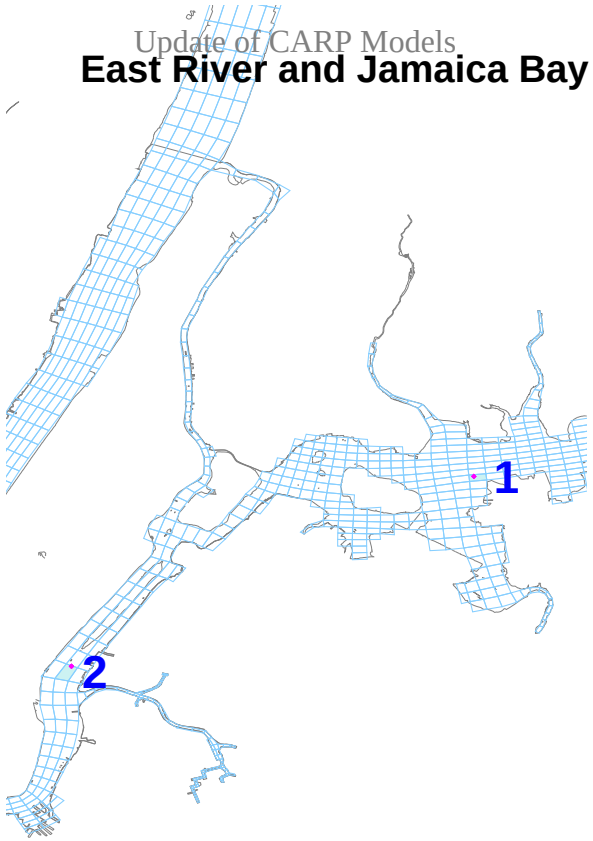
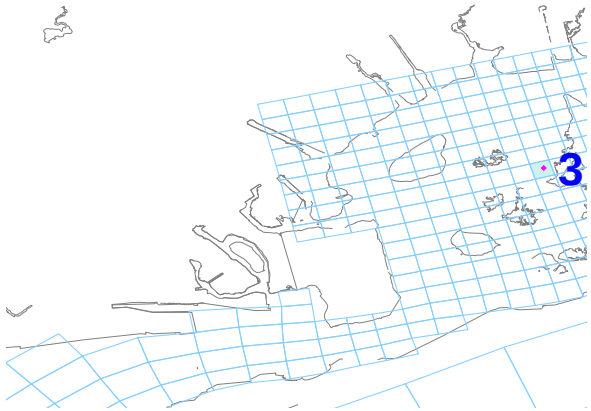
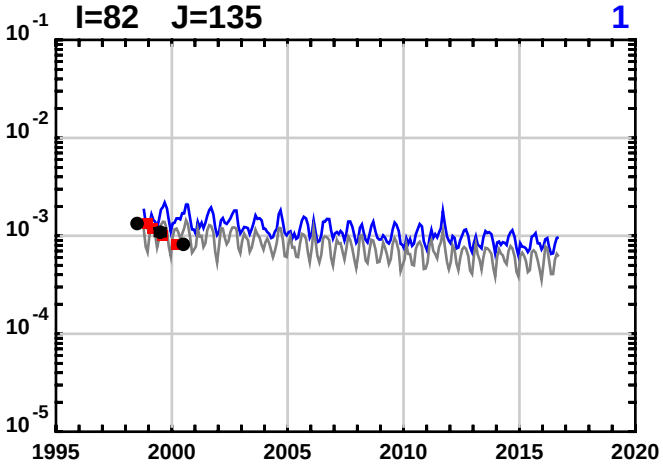
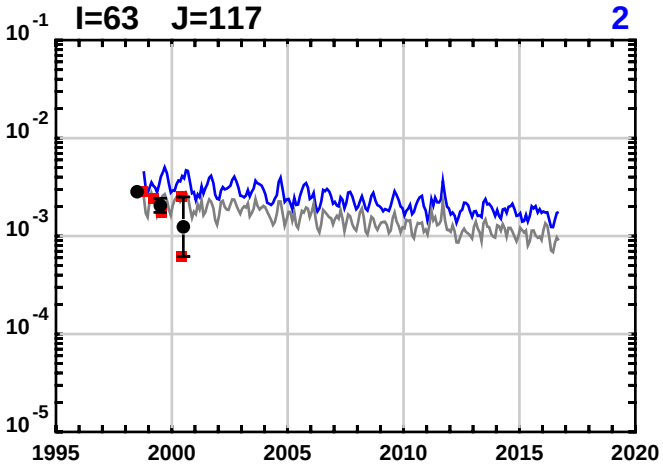
Water Column Data Comparison With Model All Water Column Layers, RUN18_S2

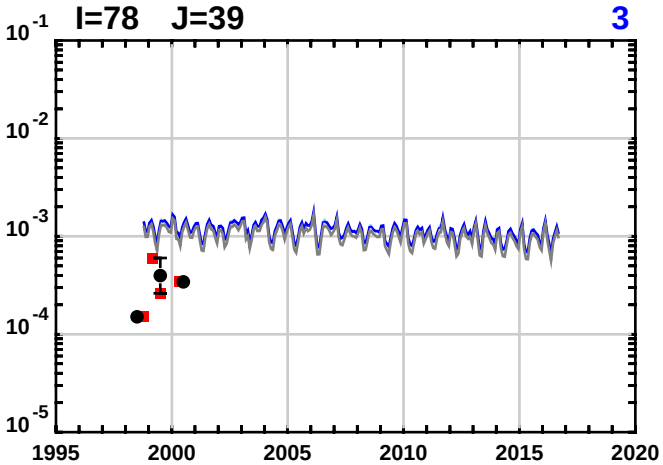
East River and Jamaica Bay











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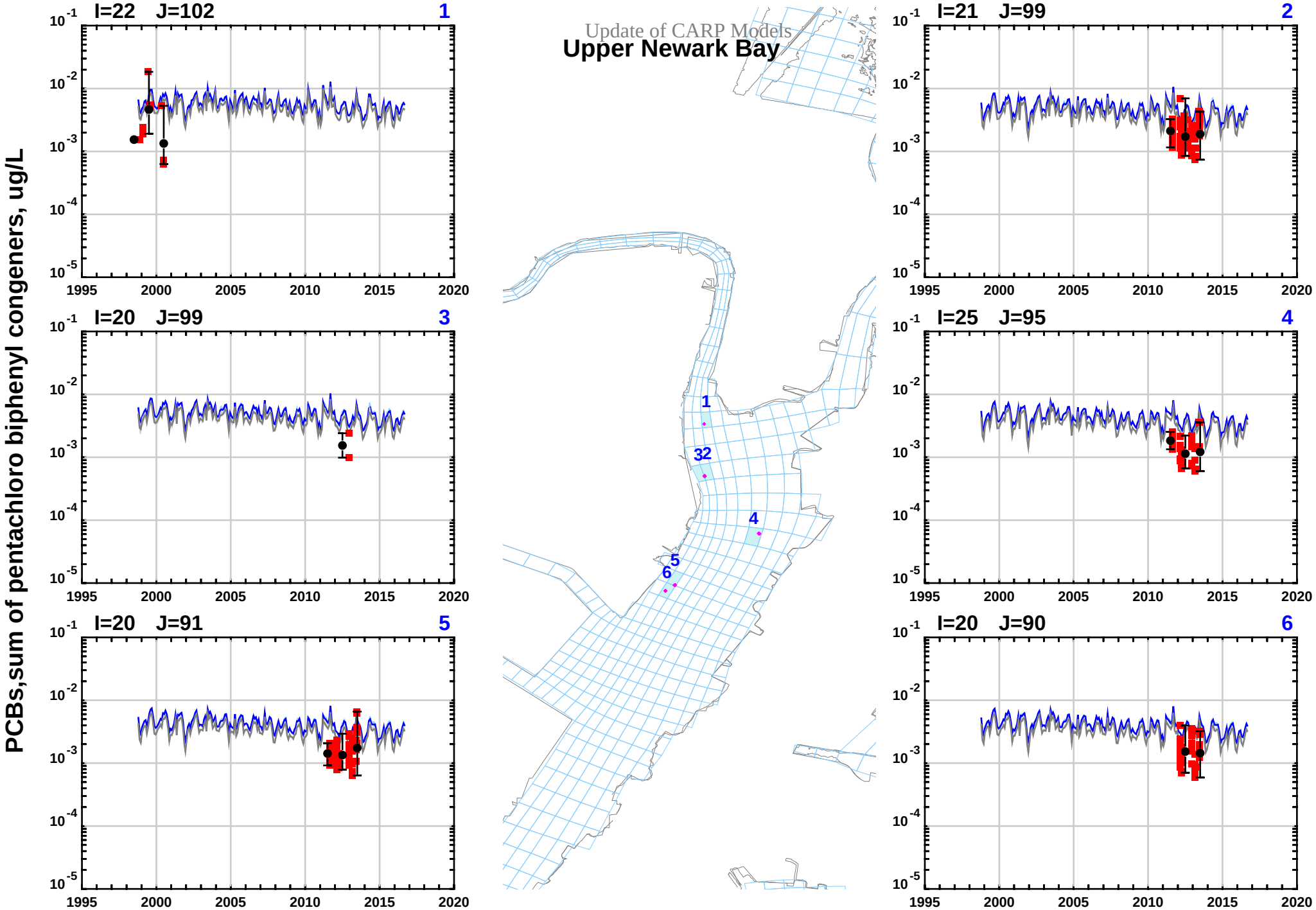

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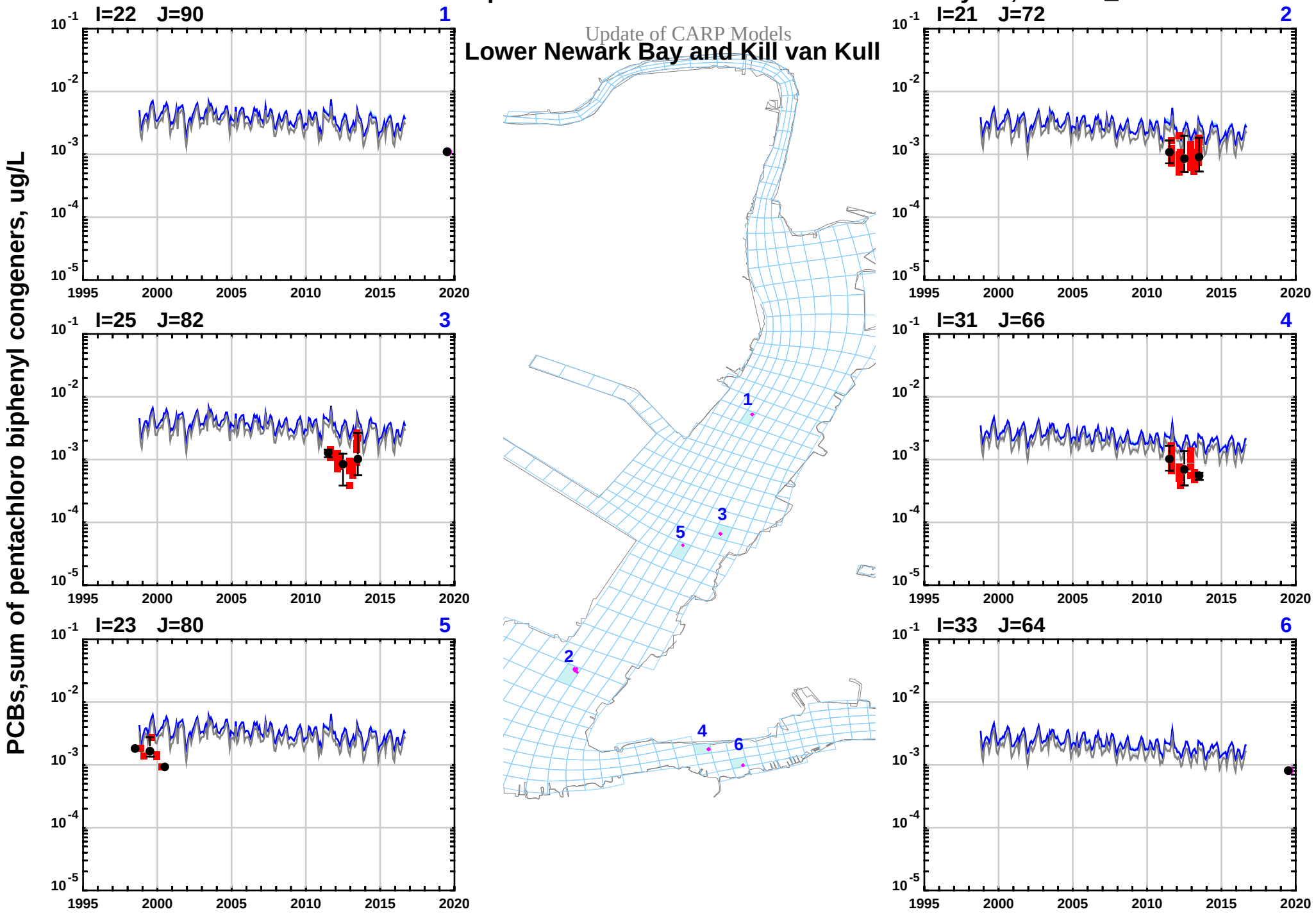

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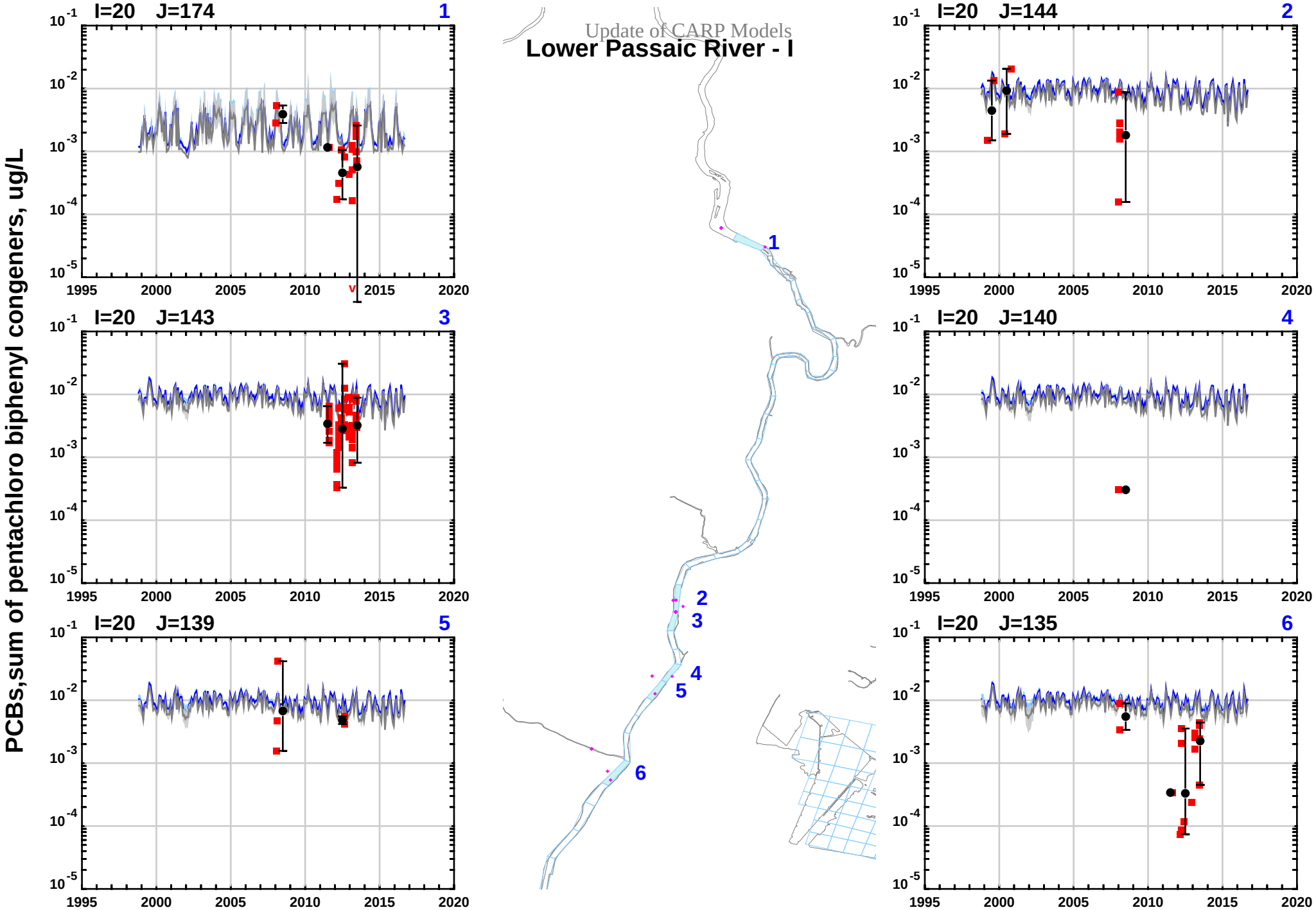

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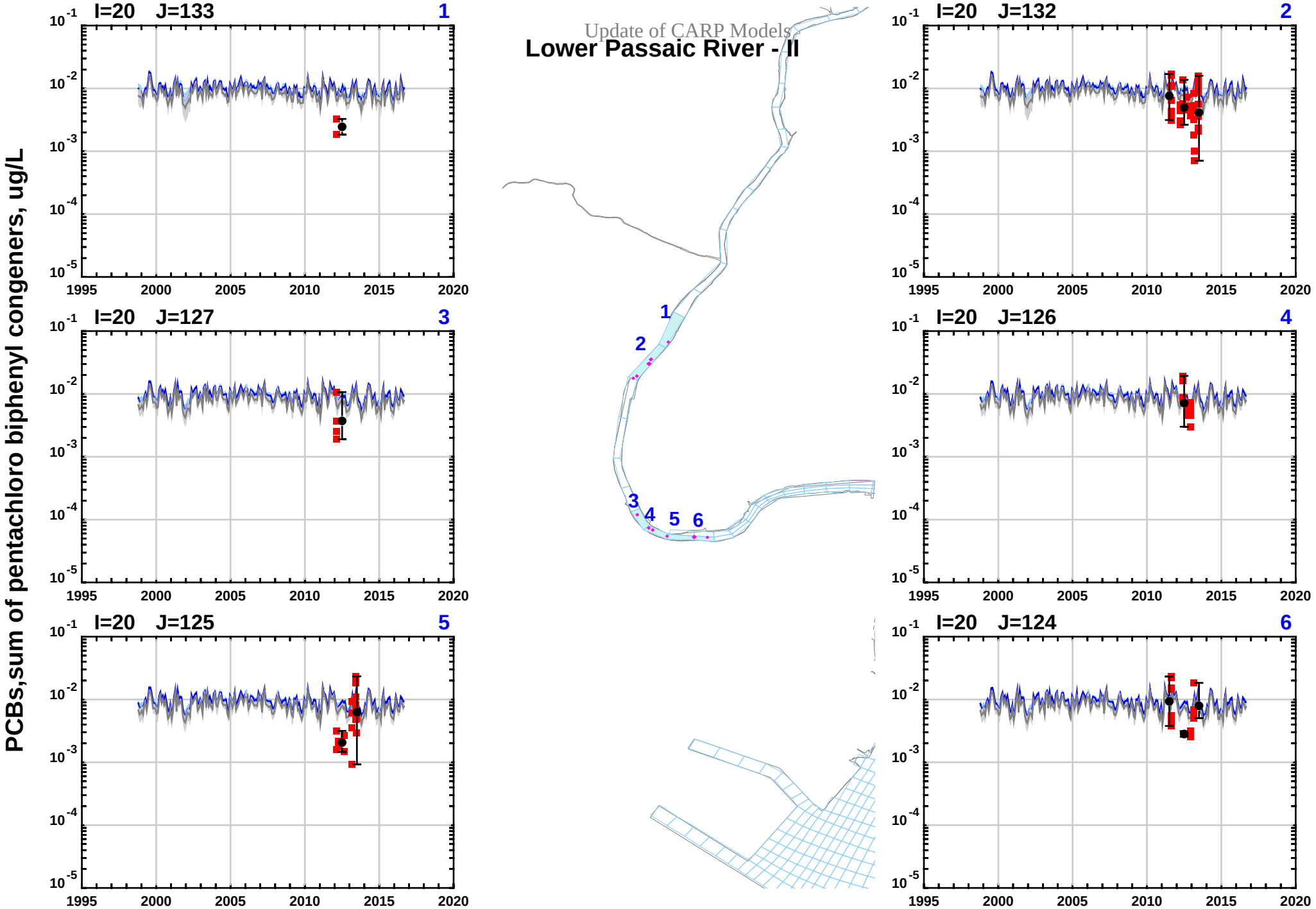

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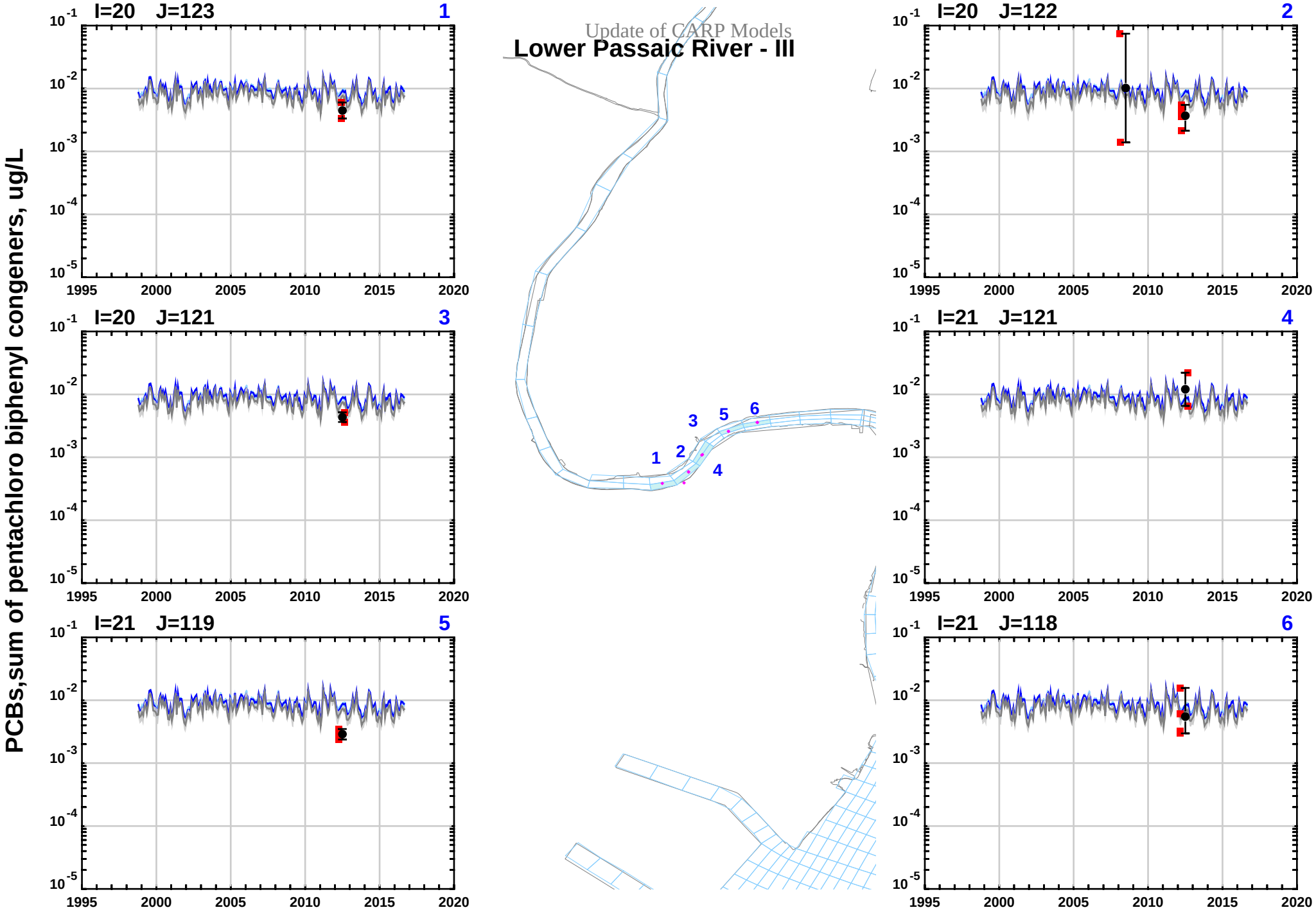

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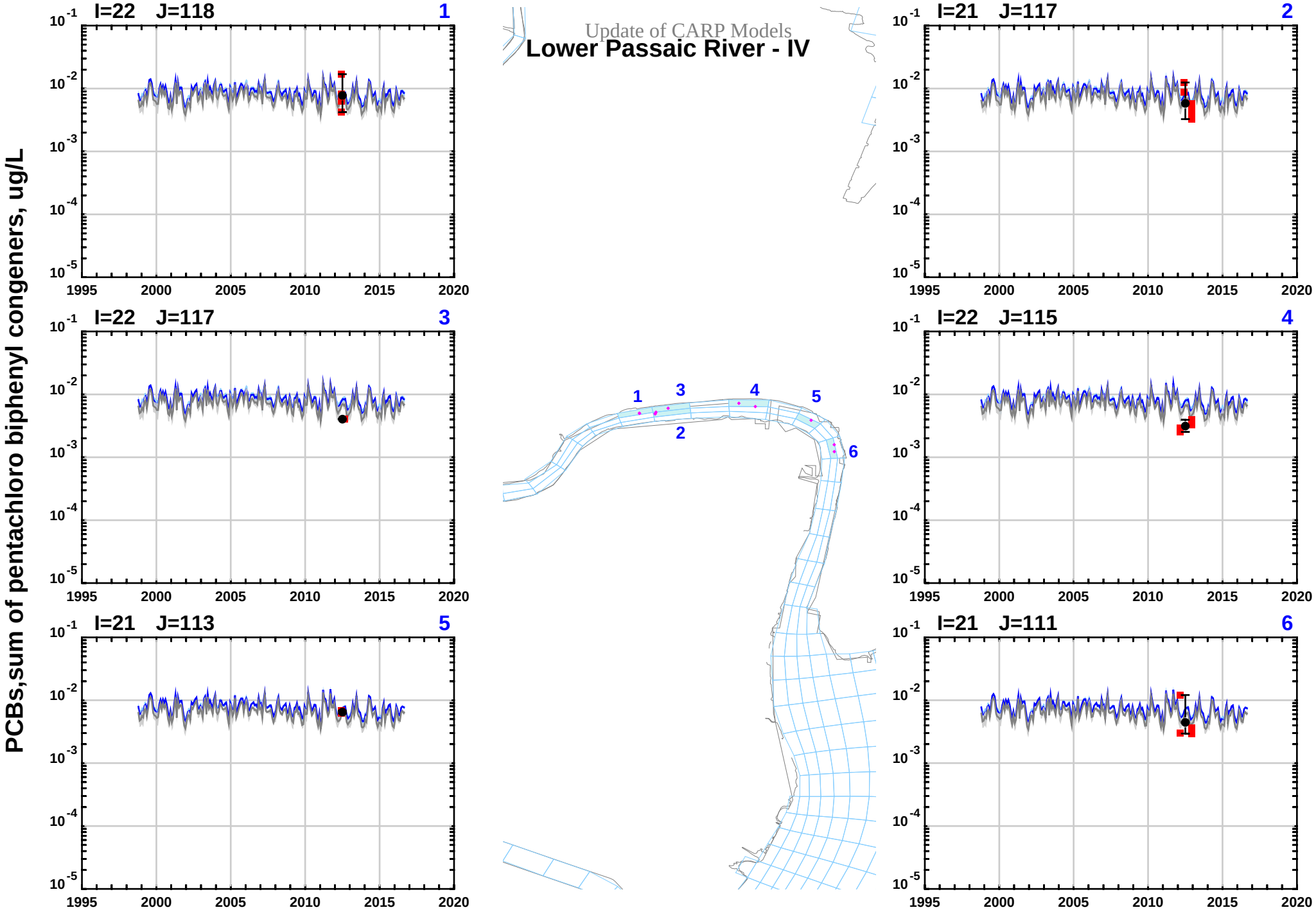

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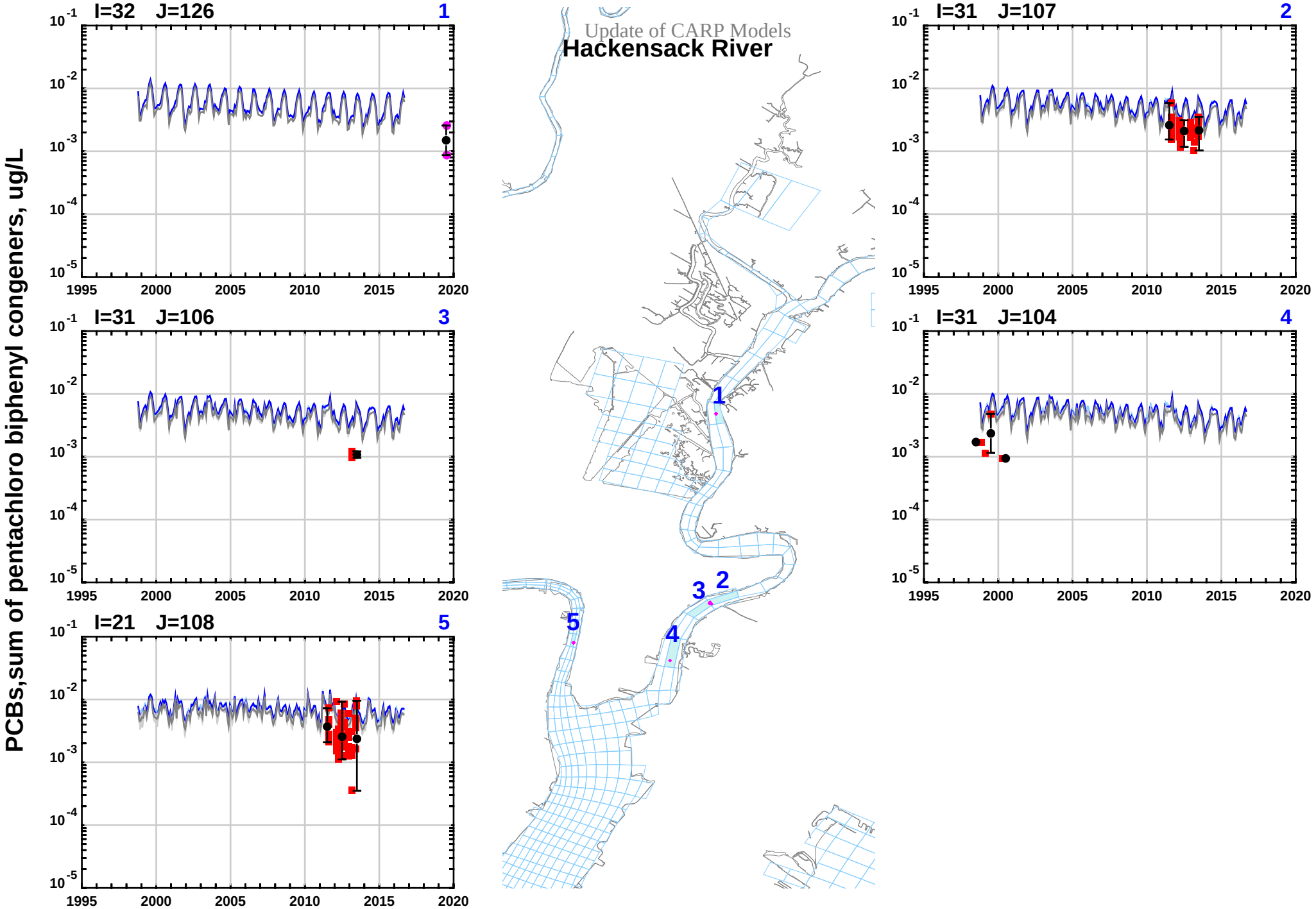

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Update of CARP Models

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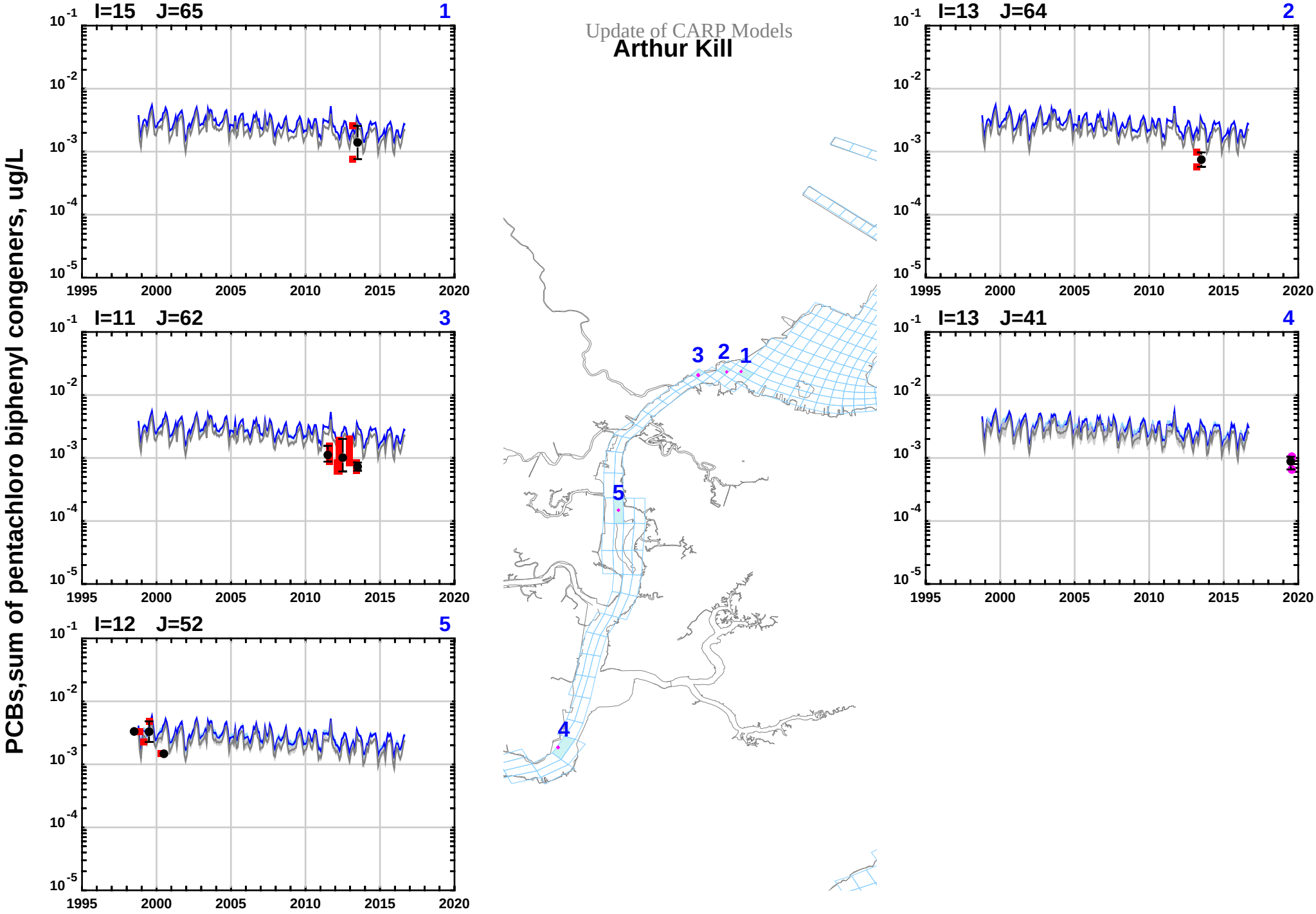

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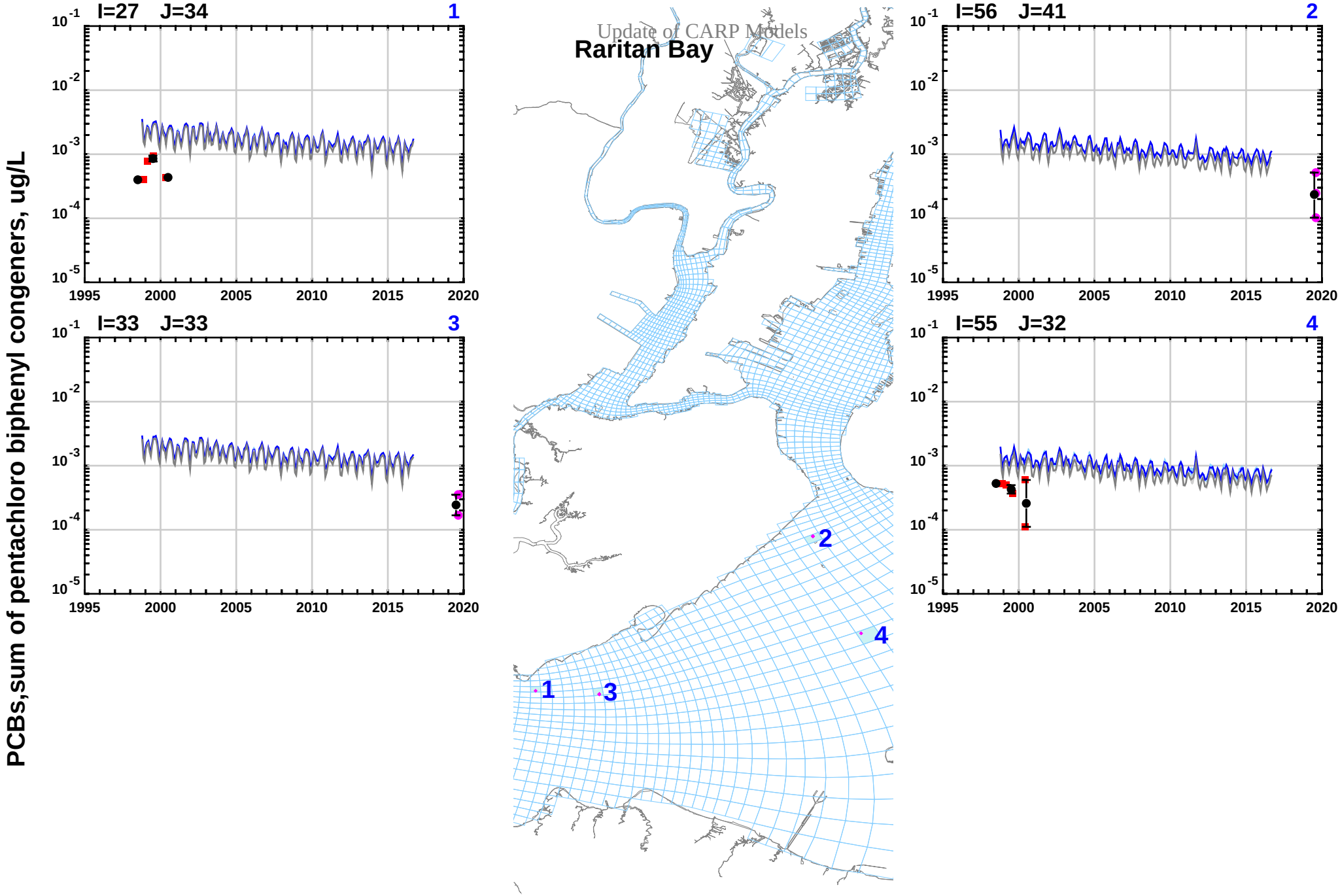

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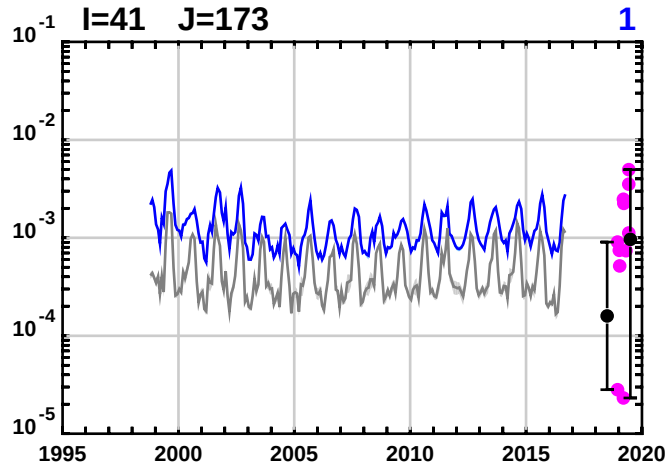

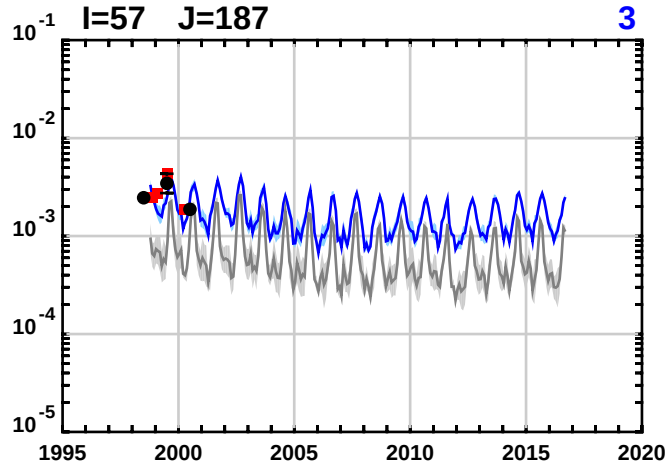

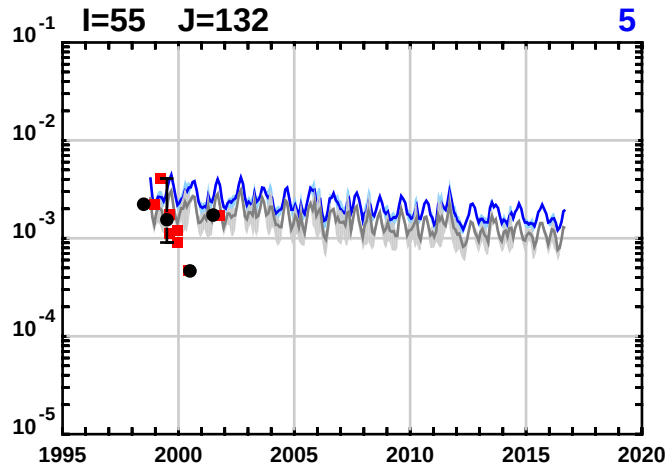

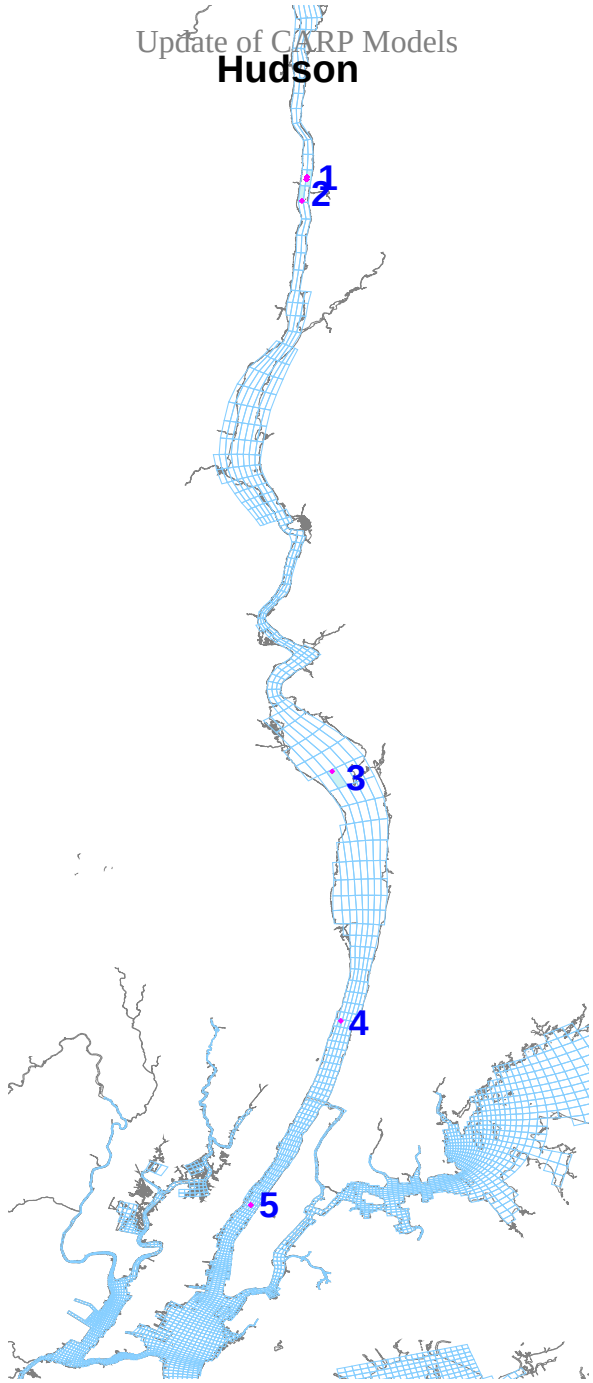

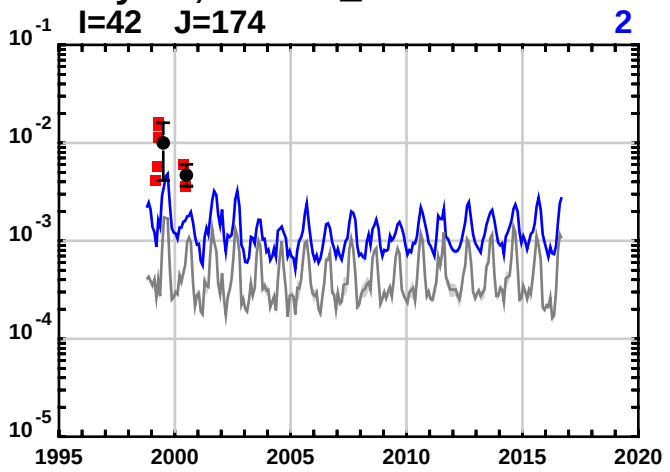

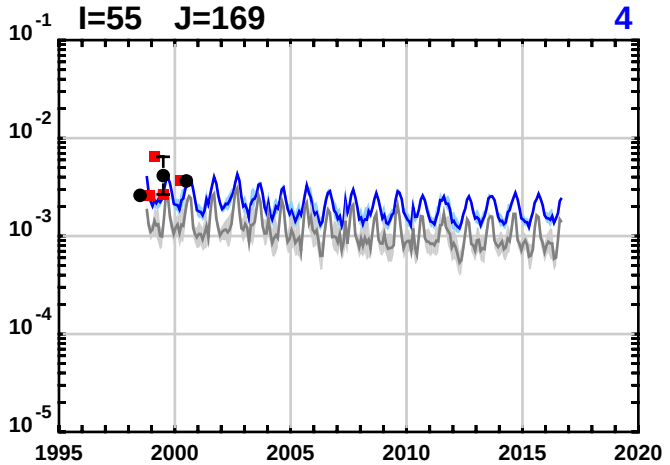

PCBs,sum of pentachloro biphenyl congeners, ug/L

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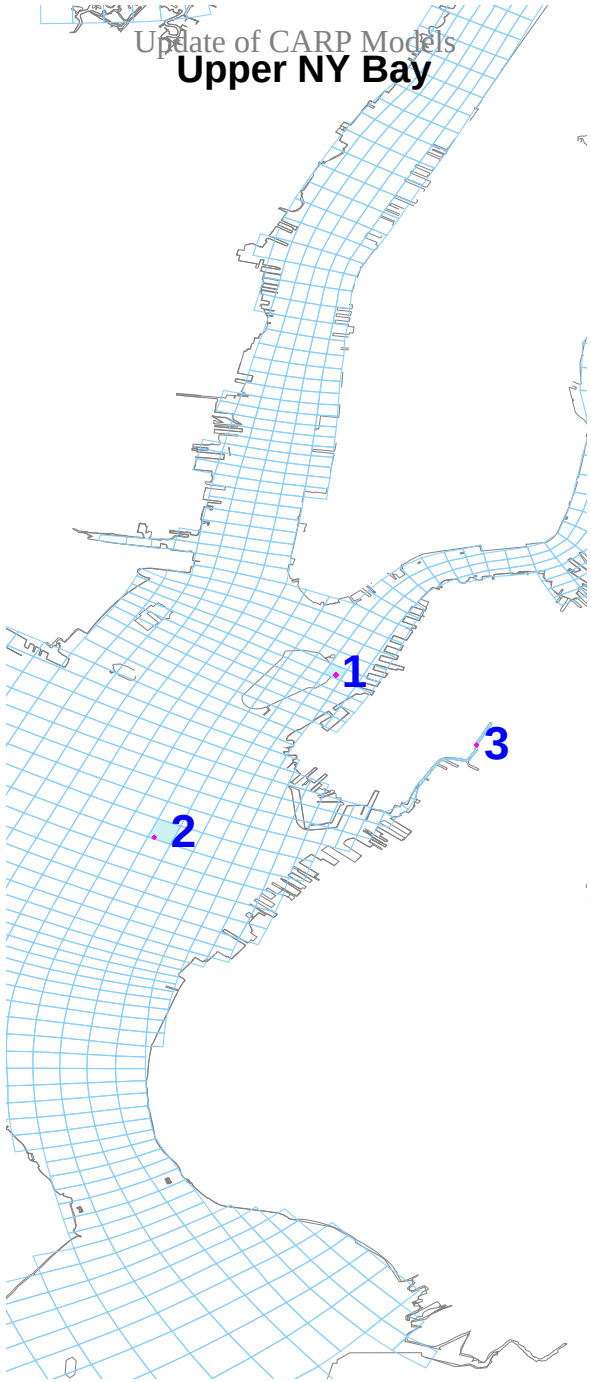

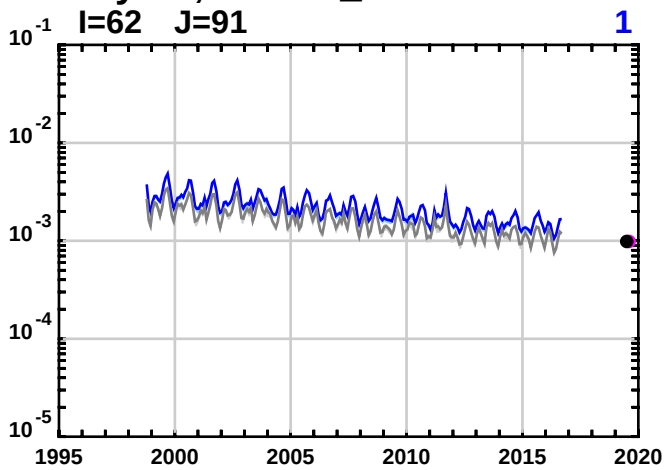

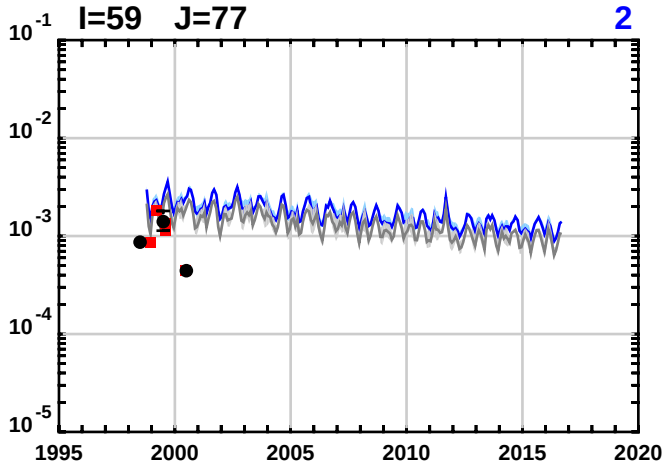

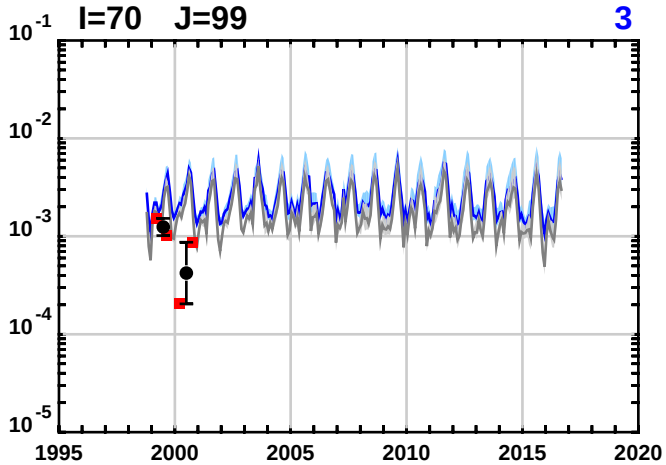

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Water Column Data Comparison With Model All Water Column Layers, RUN18_S2

Update of CARP Models

East River and Jamaica Bay

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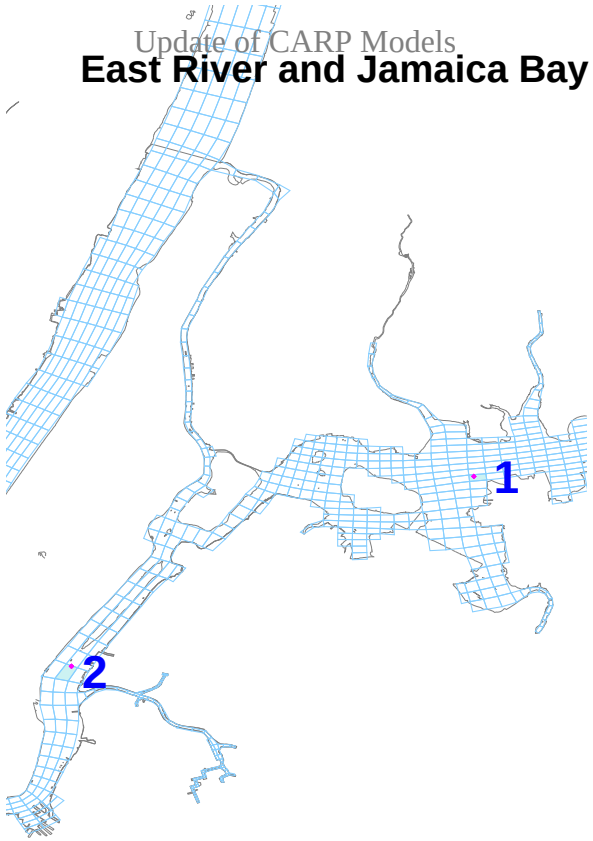

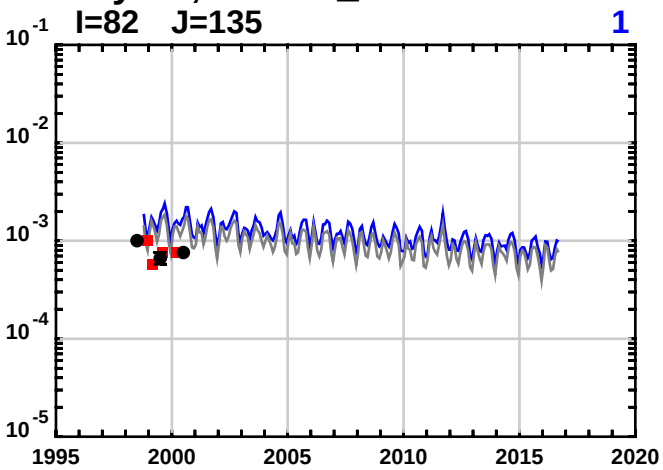

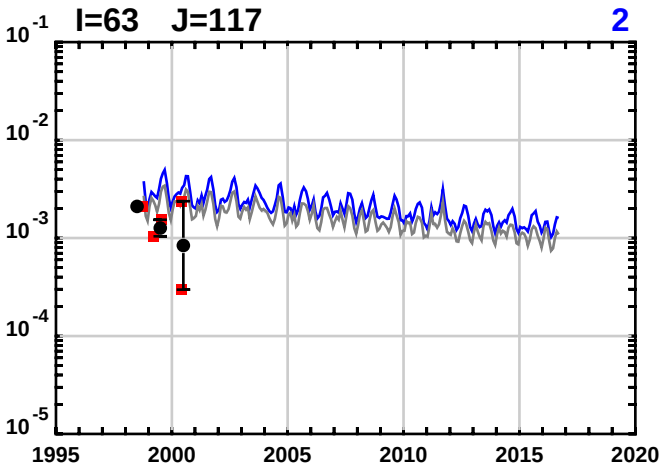

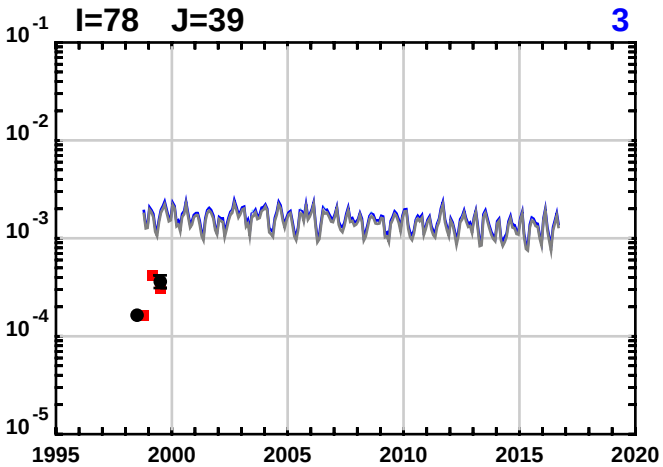

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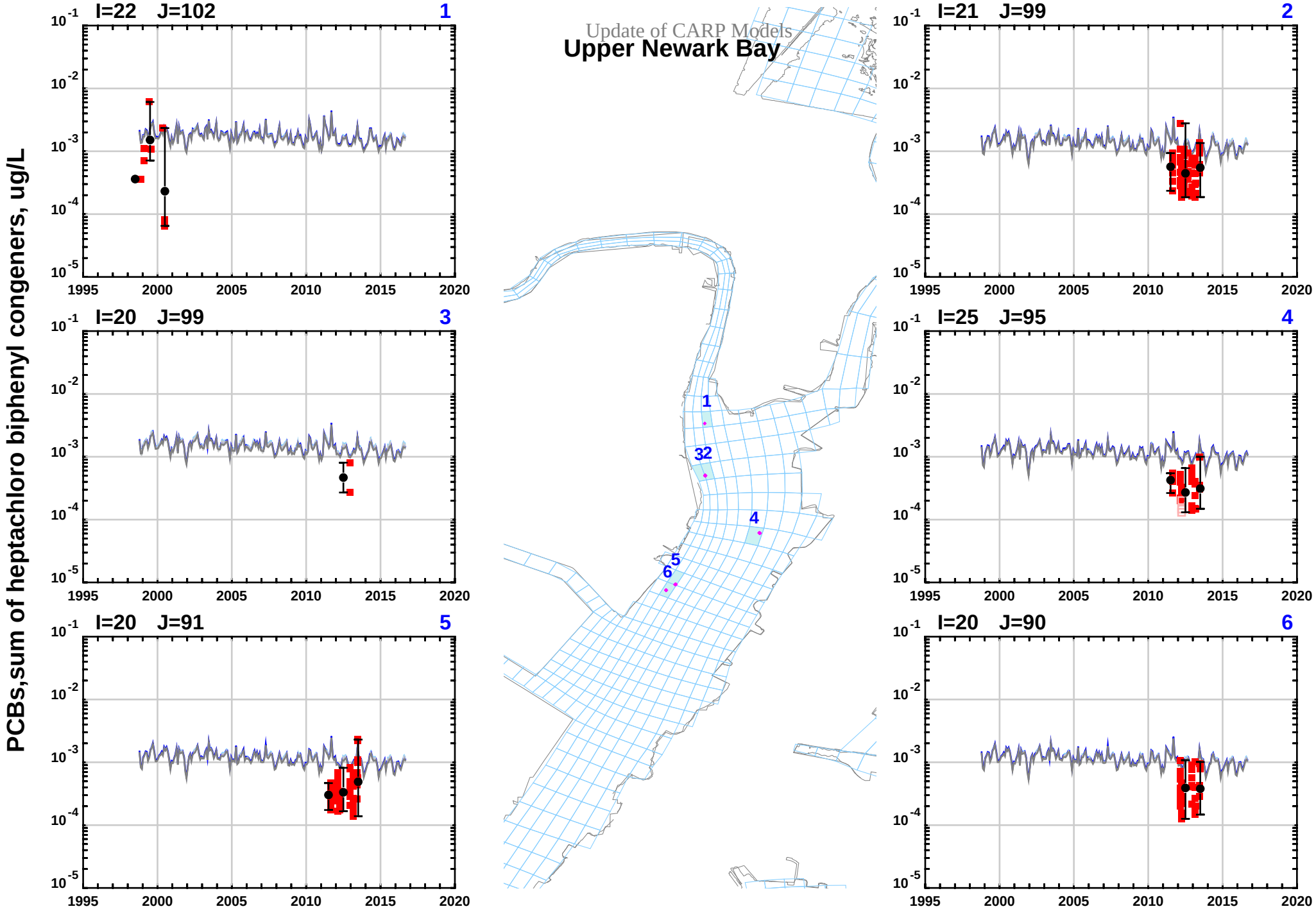

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Update of CARP Models

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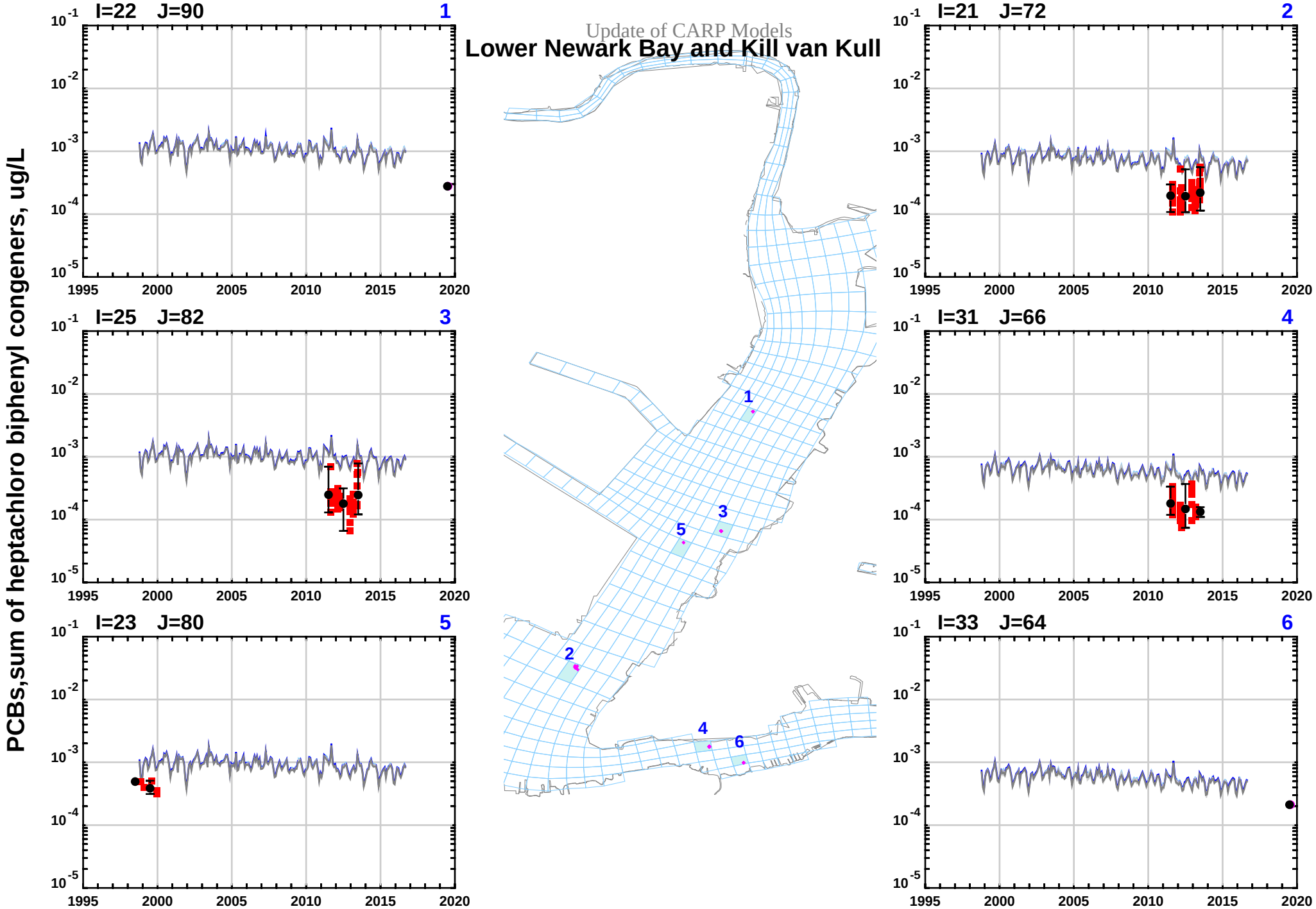

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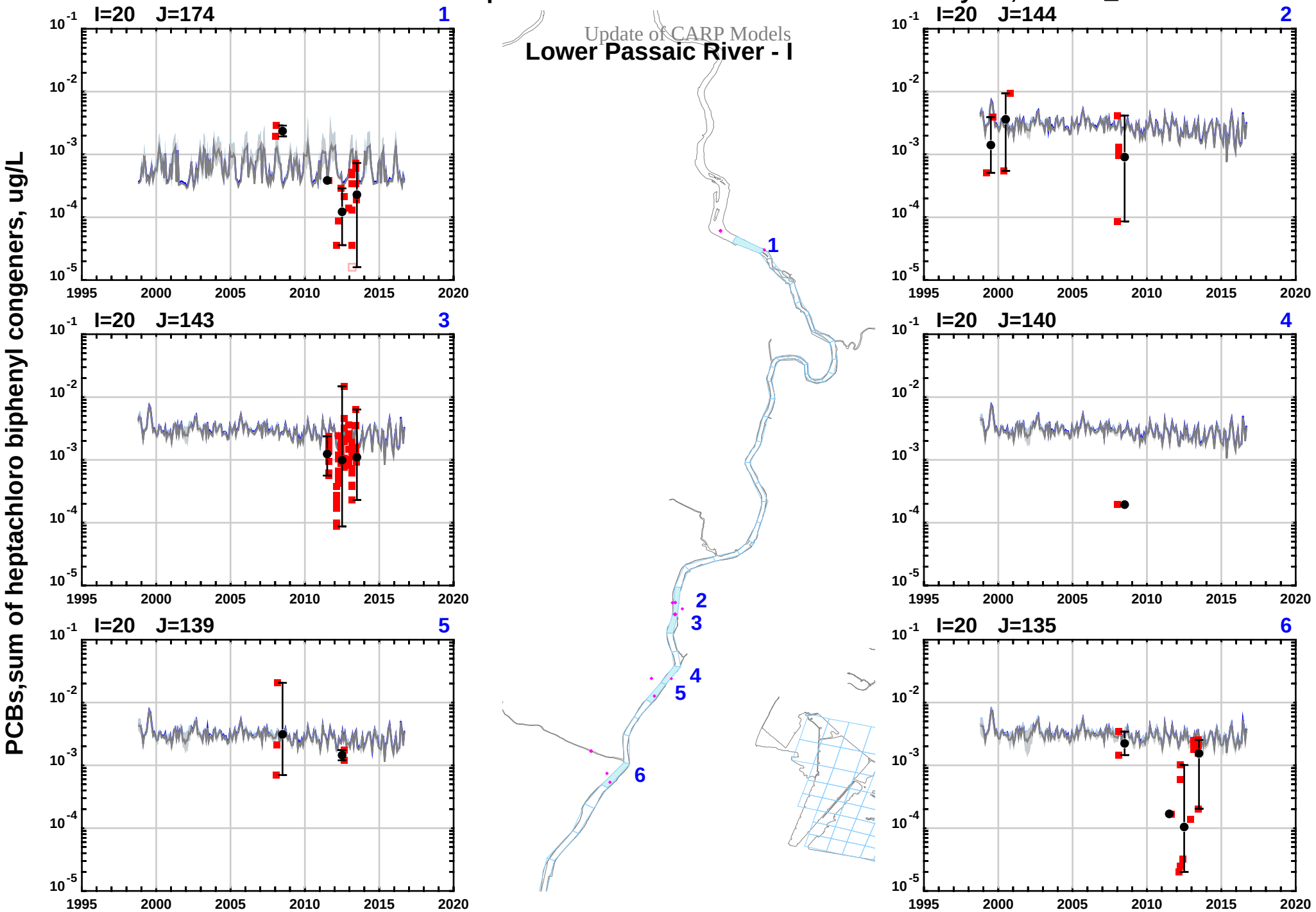

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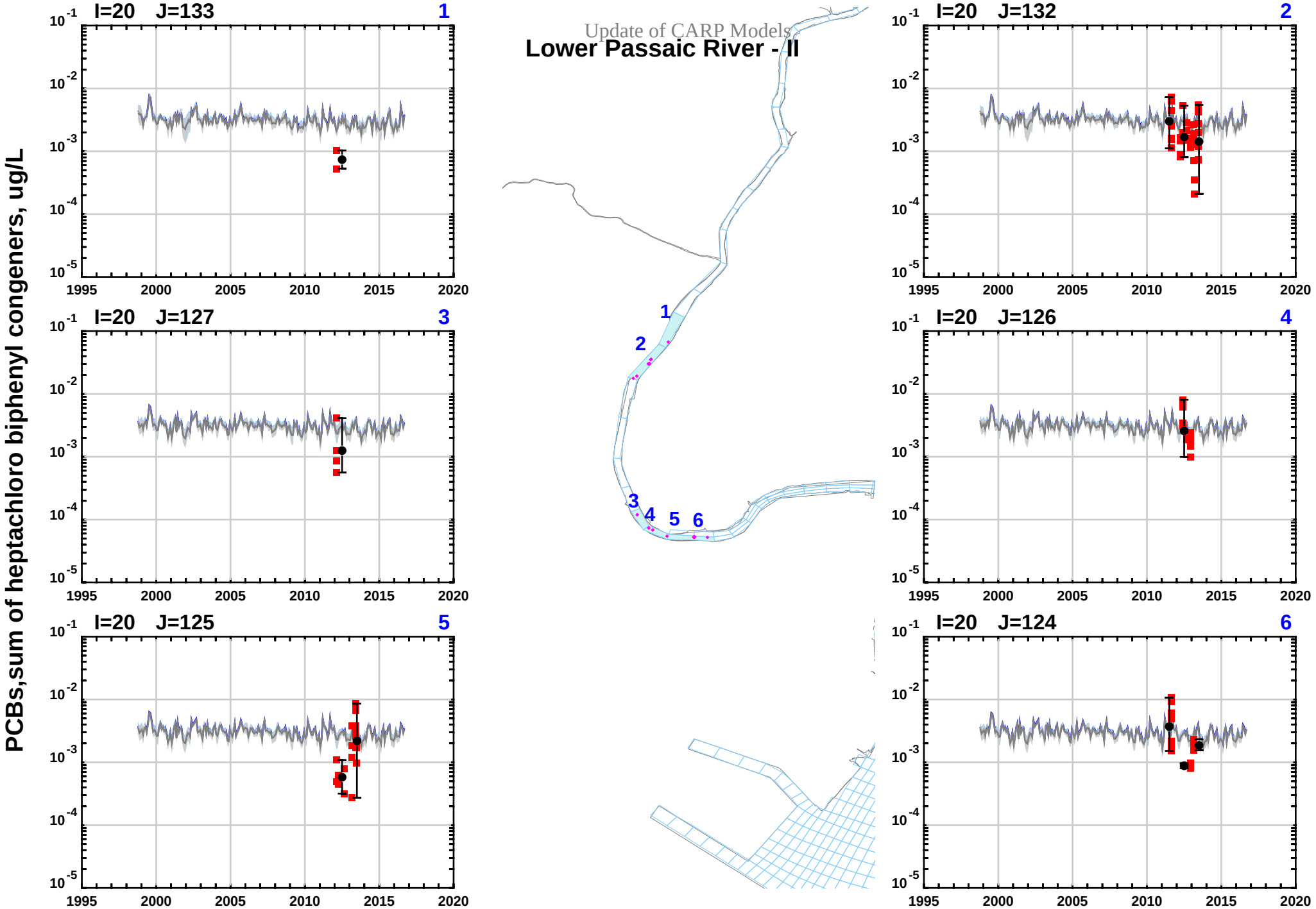
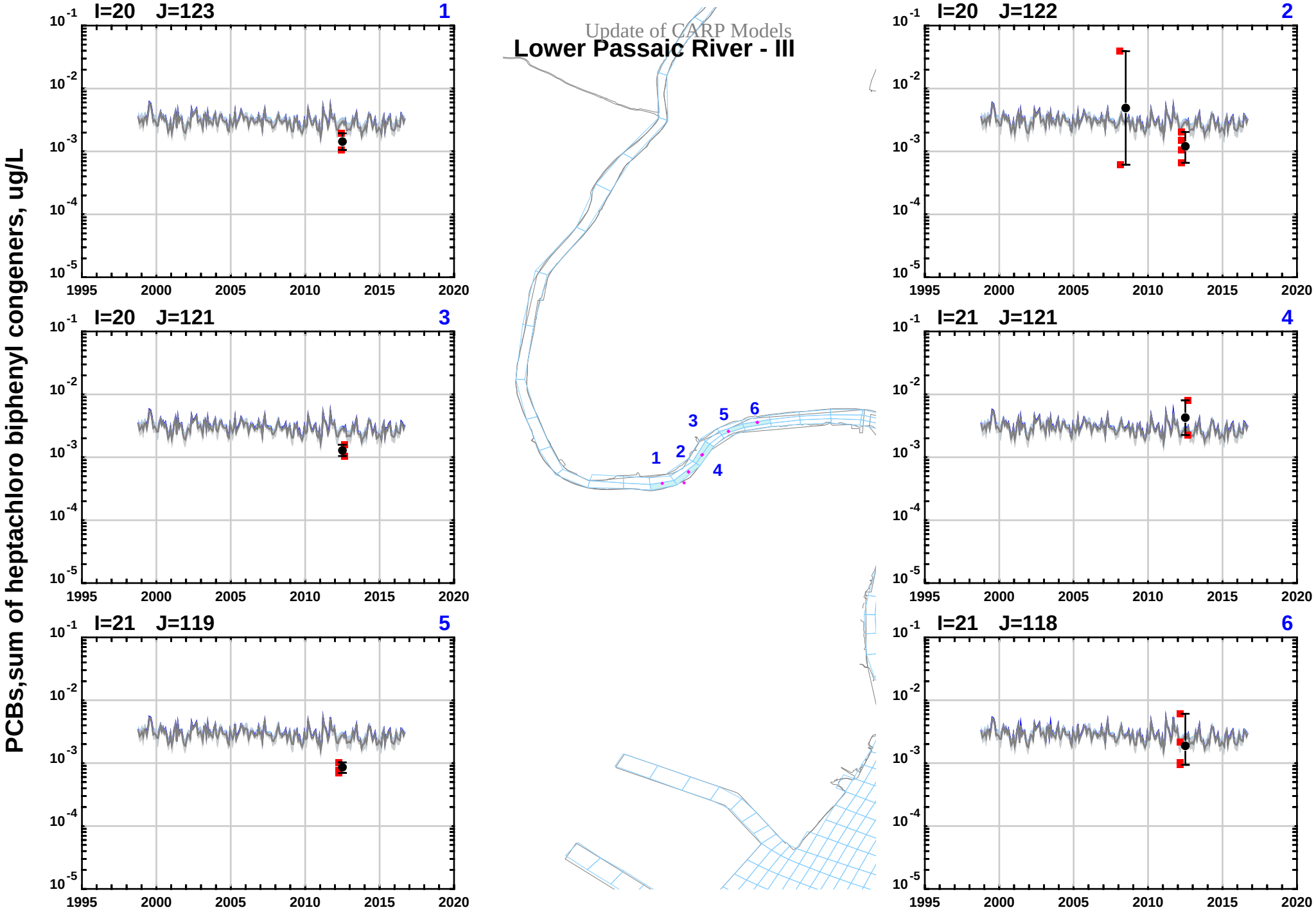


Water Column Data Comparison With Model All Water Column Layers, RUN18_S2



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

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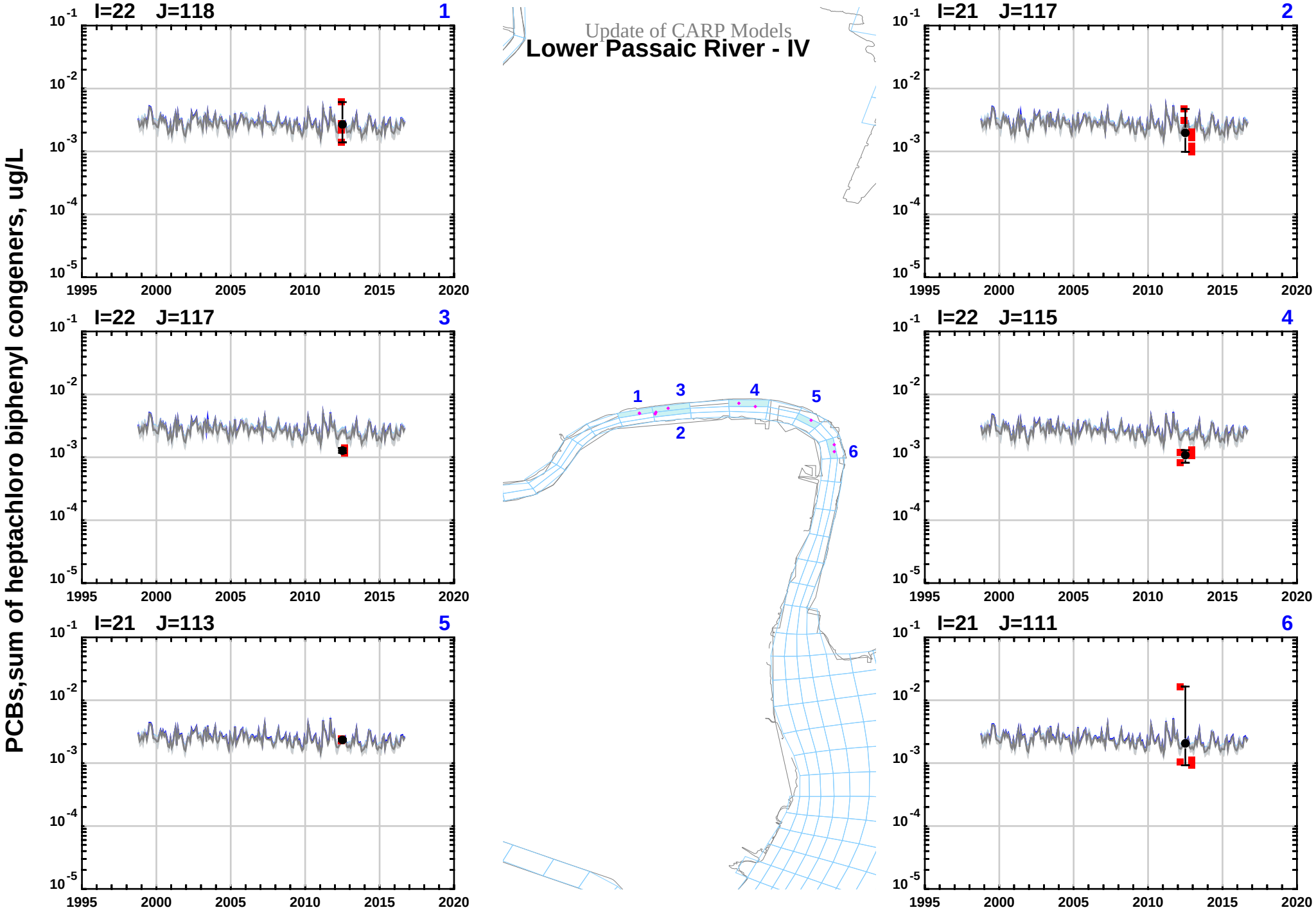
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_S2



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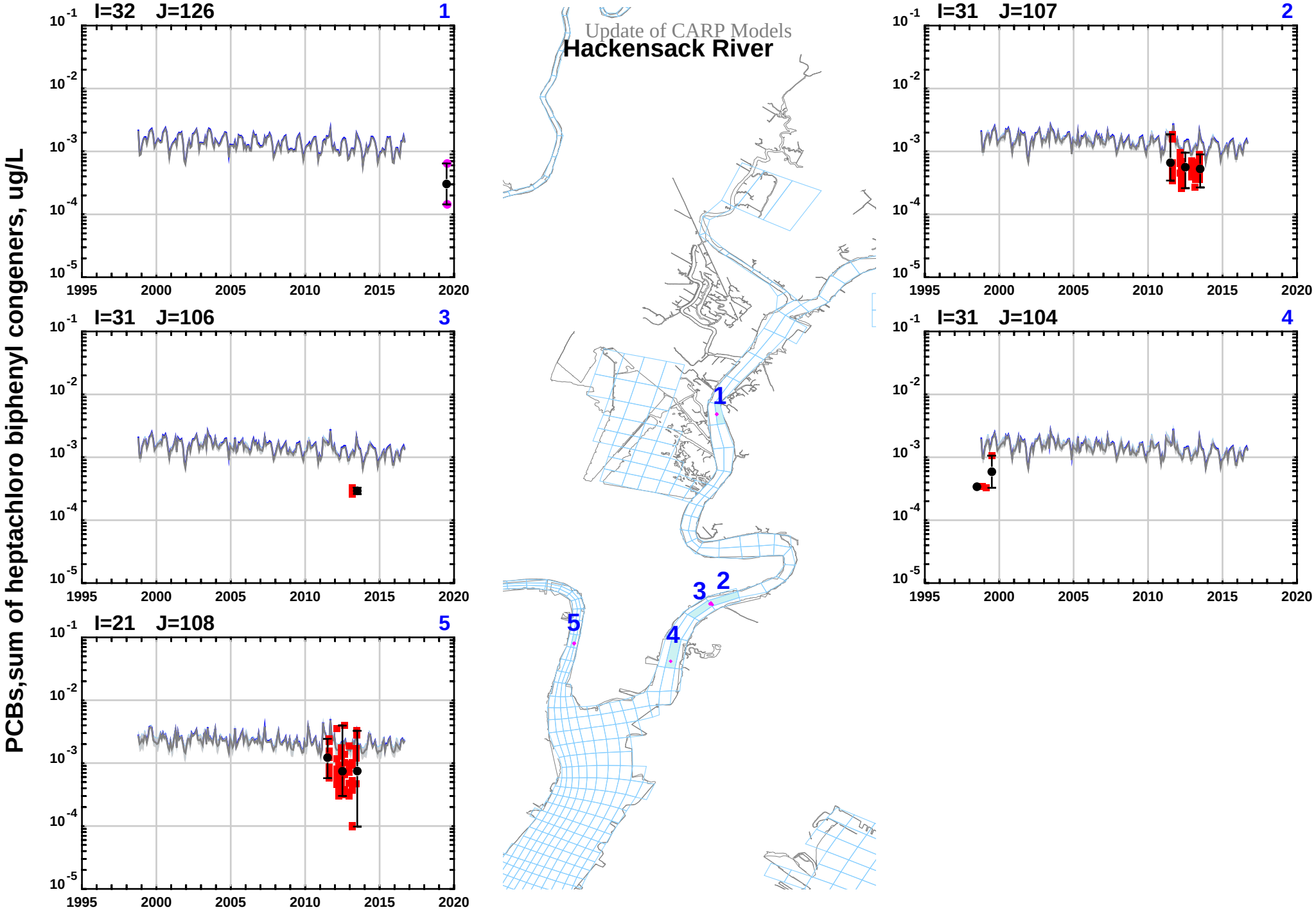

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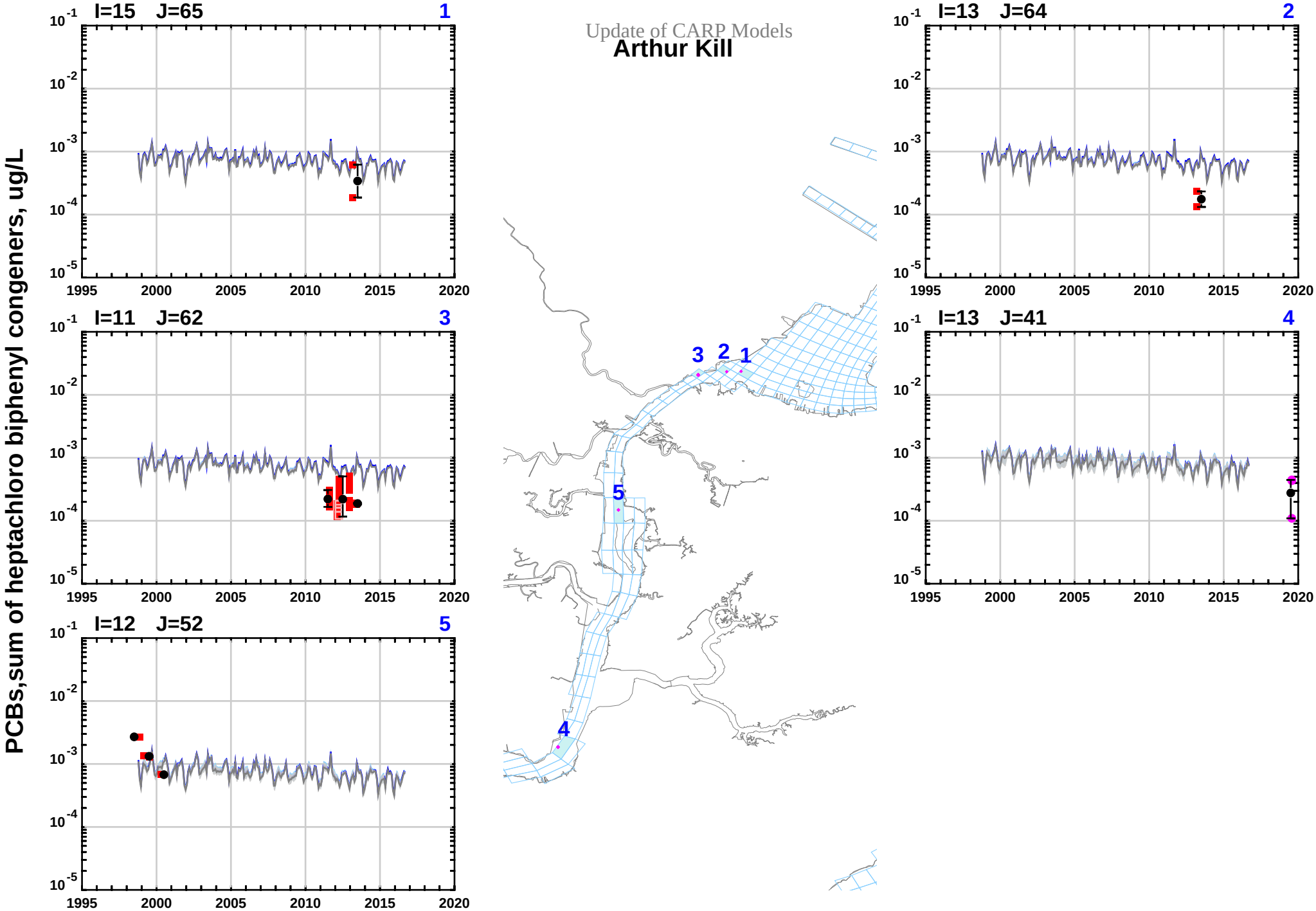
Water Column Data Comparison With Model All Water Column Layers, RUN18_S2

Update of CARP Models

Arthur Kill



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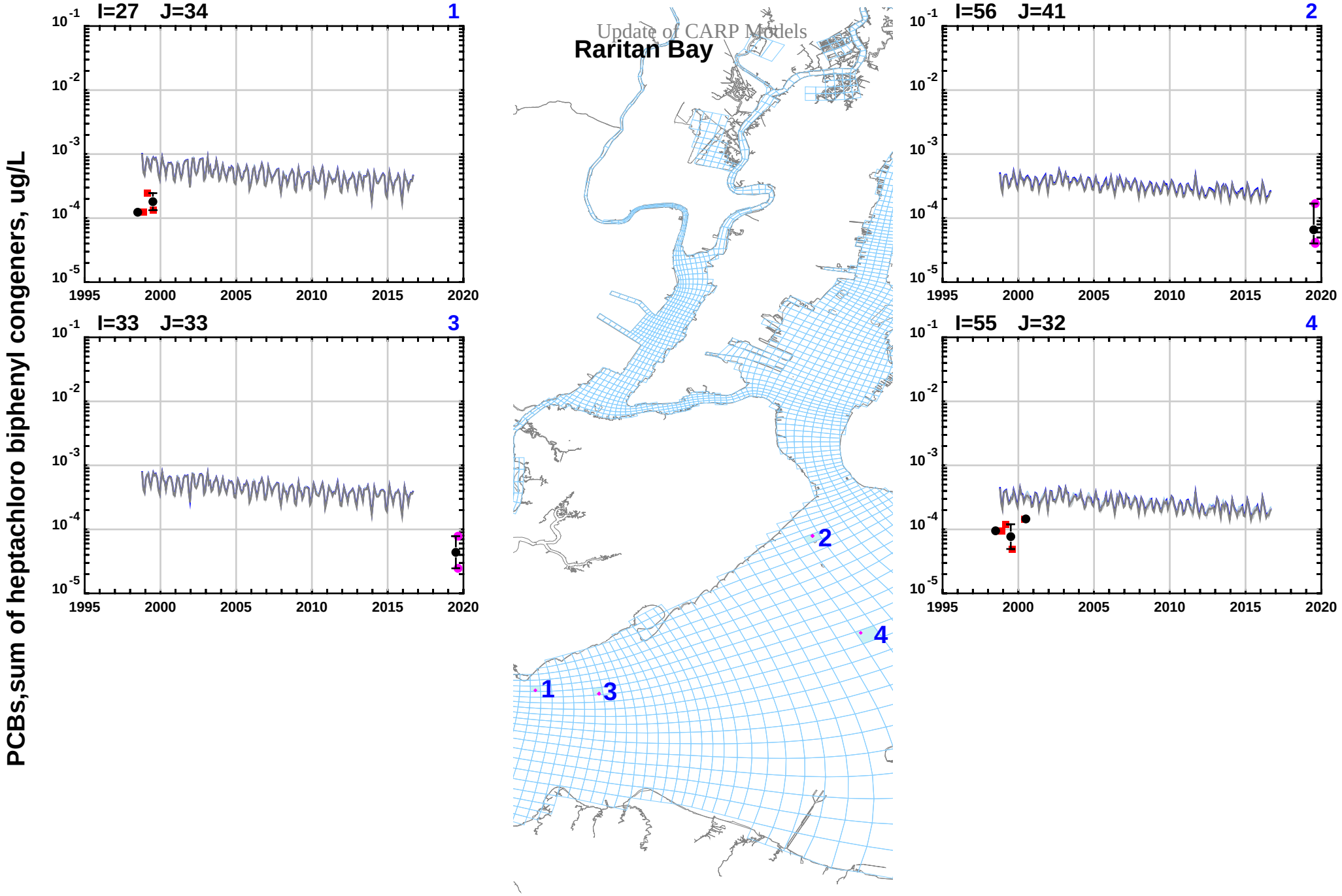

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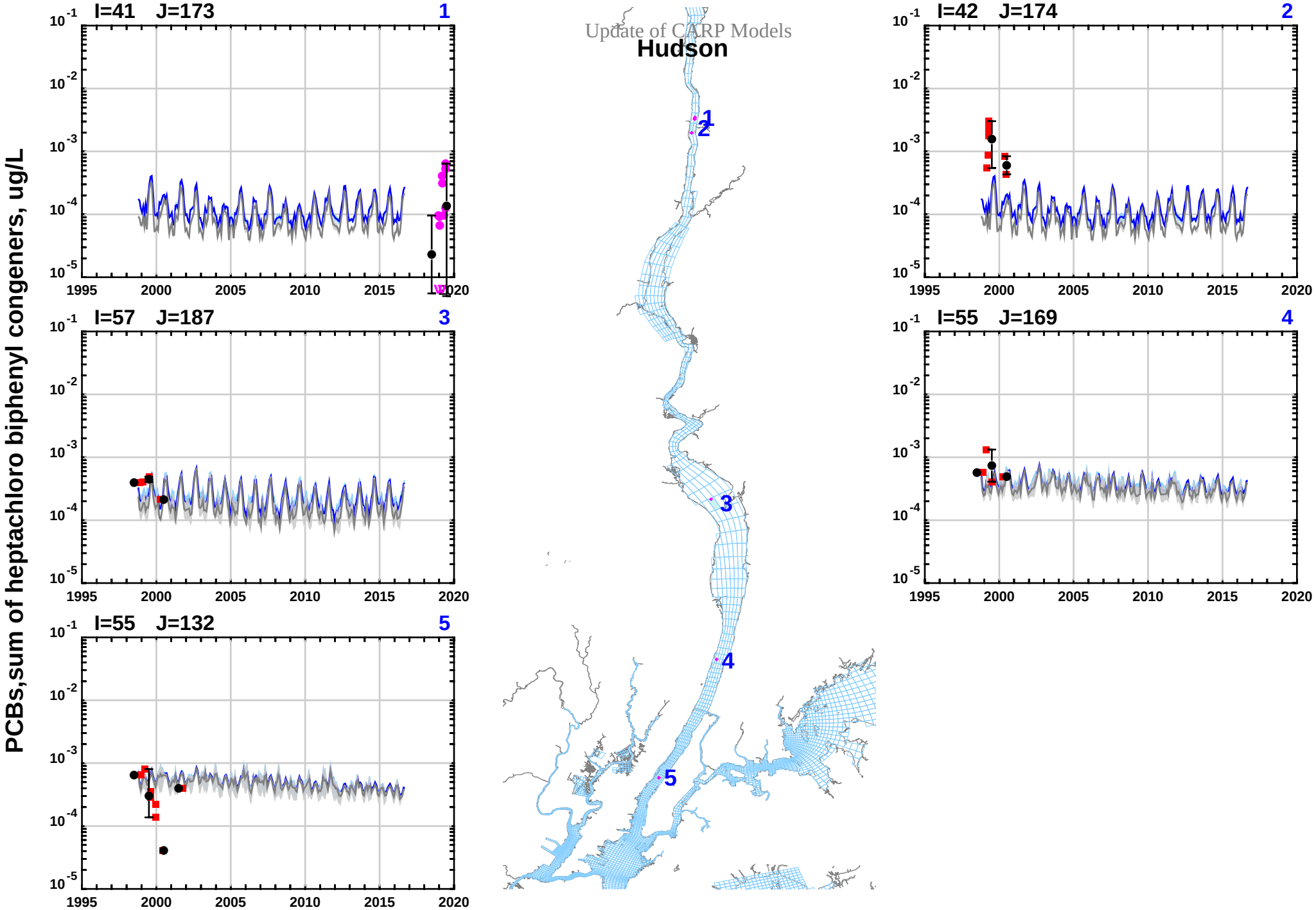

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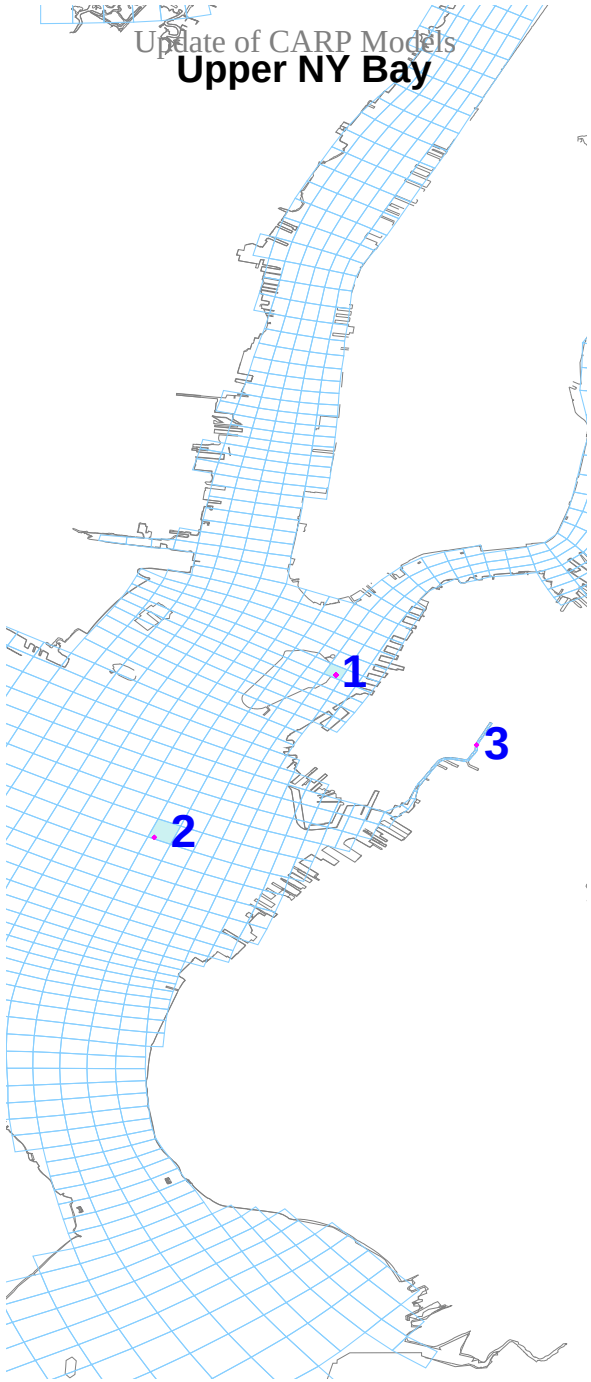
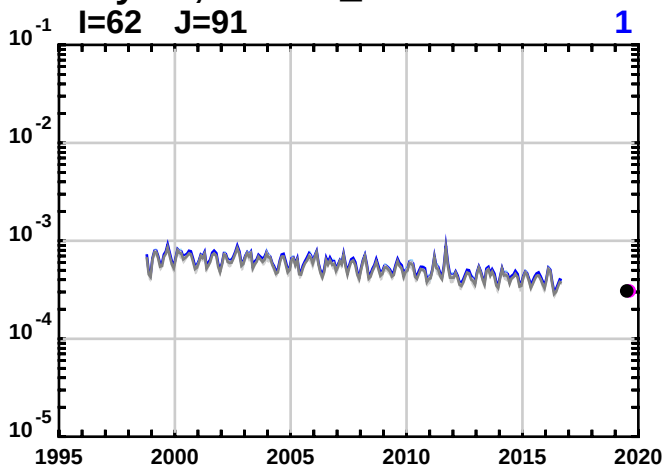
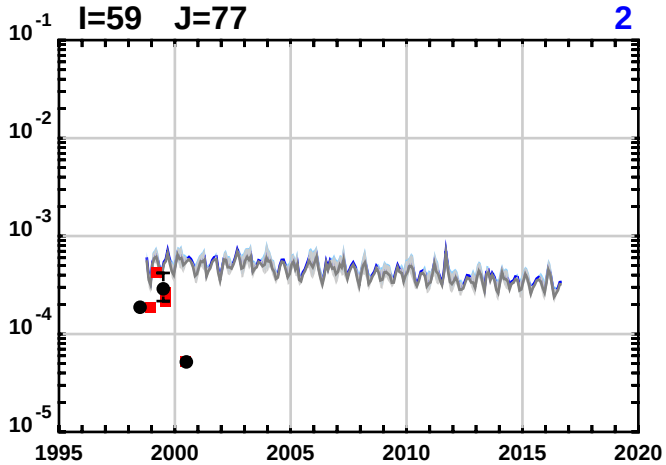
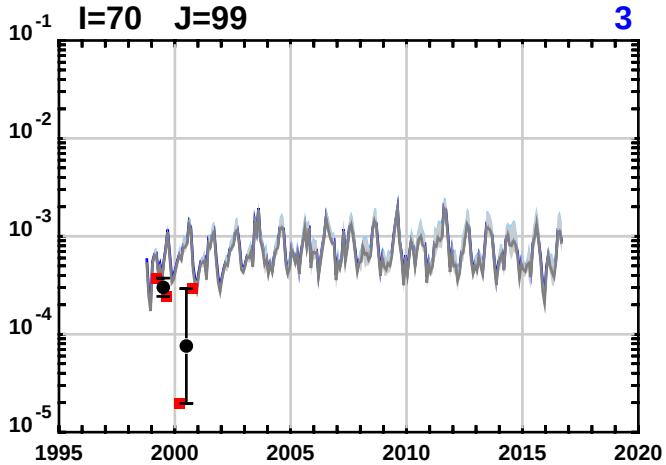
Water Column Data Comparison With Model All Water Column Layers, RUN18_S2

PCBs,sum of heptachloro biphenyl congeners, ug/L









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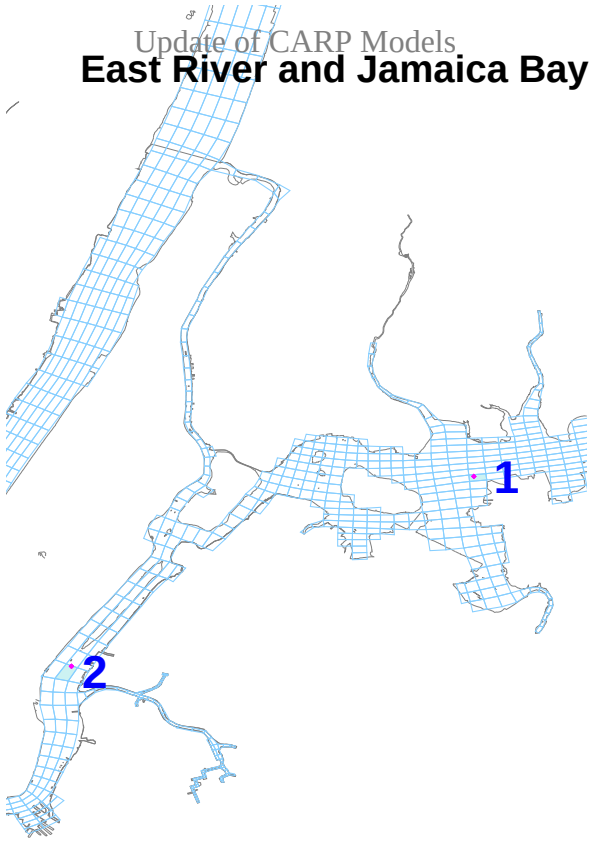
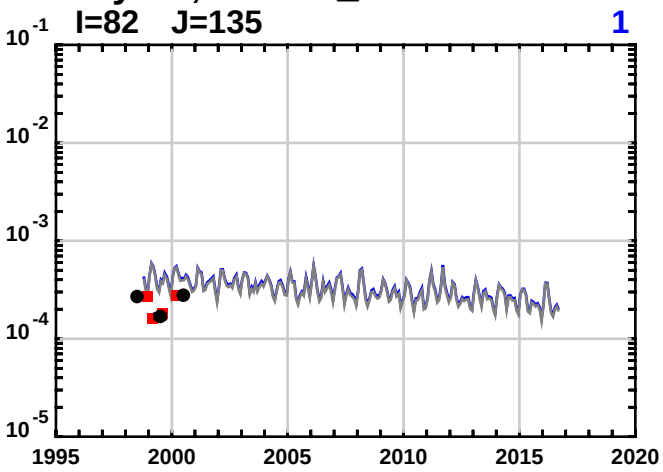
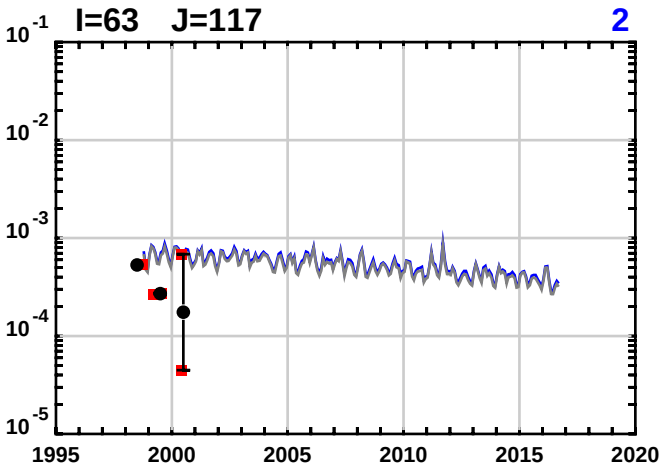
Water Column Data Comparison With Model All Water Column Layers, RUN18_S2

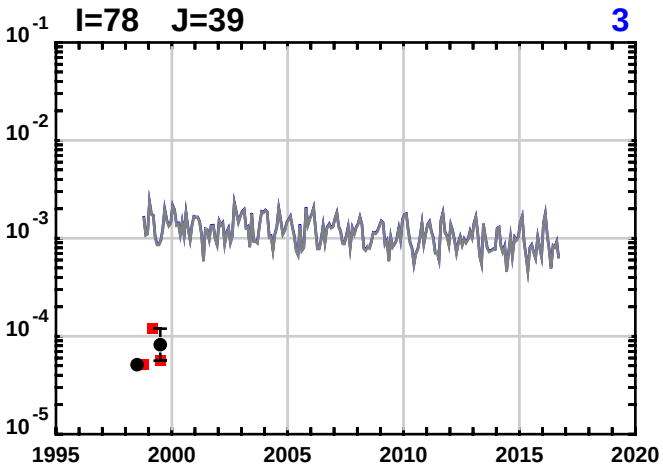
East River and Jamaica Bay

PCBs,sum of heptachloro biphenyl congeners, ug/L









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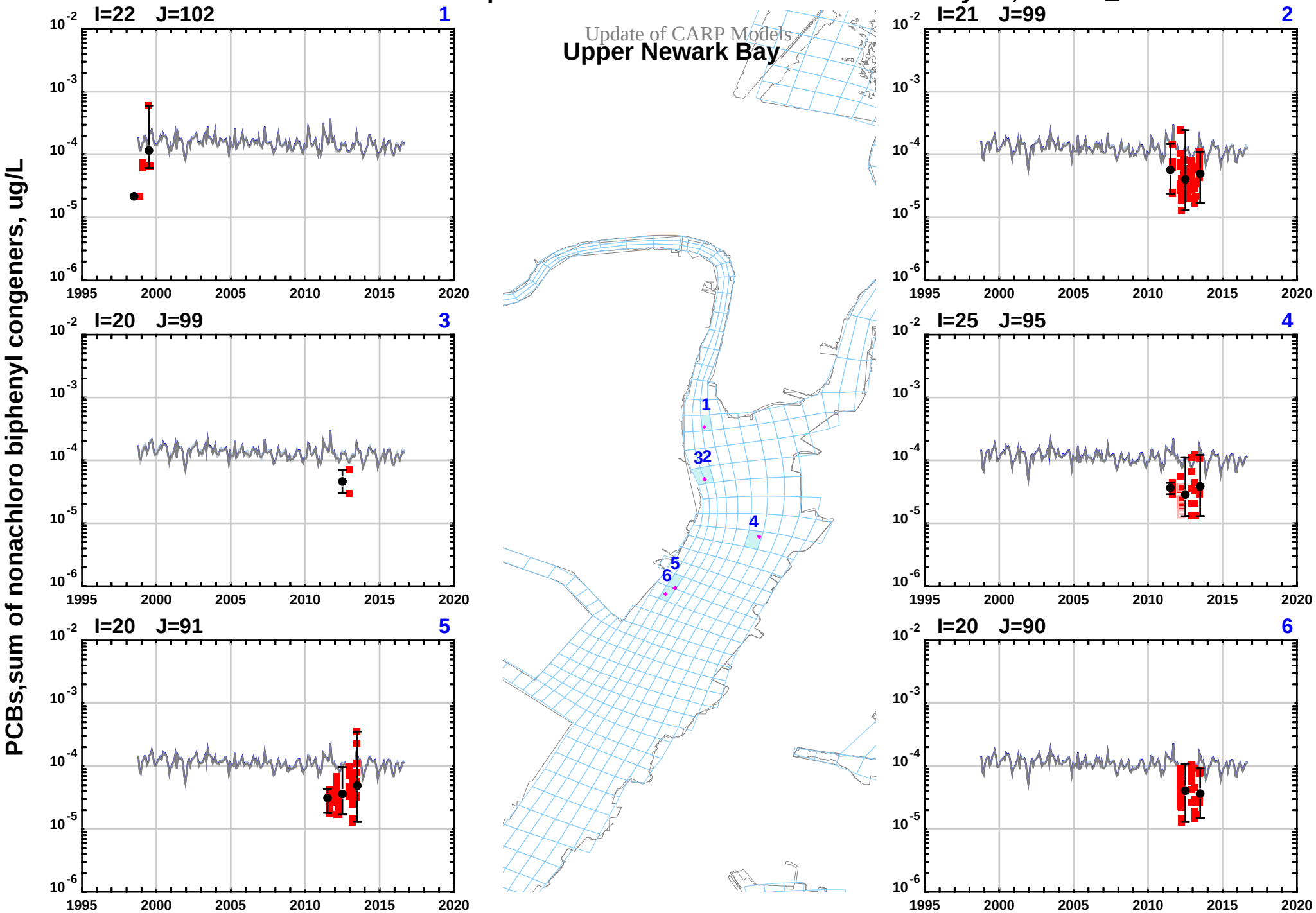
Water Column Data Comparison With Model All Water Column Layers, RUN18_S2



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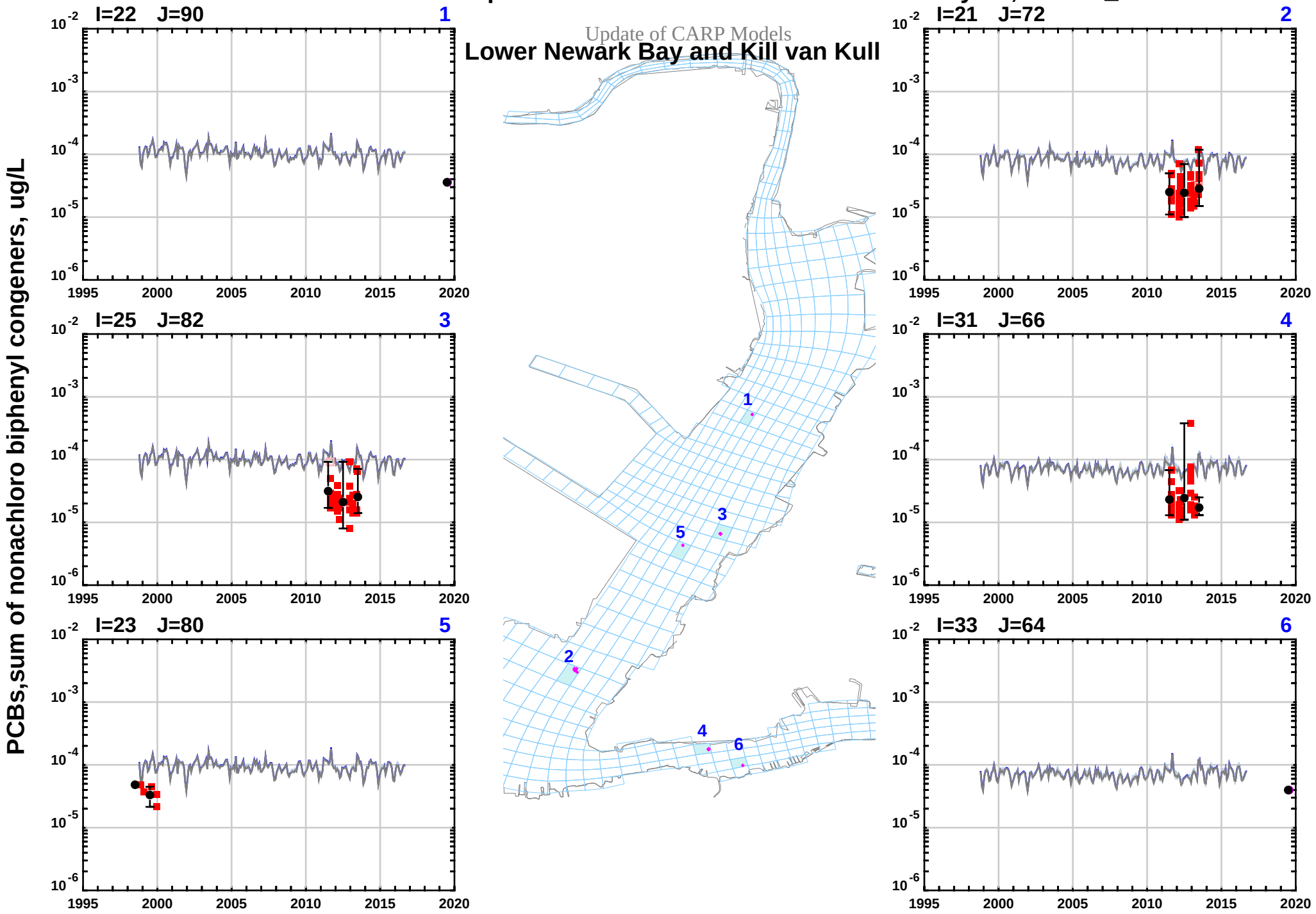

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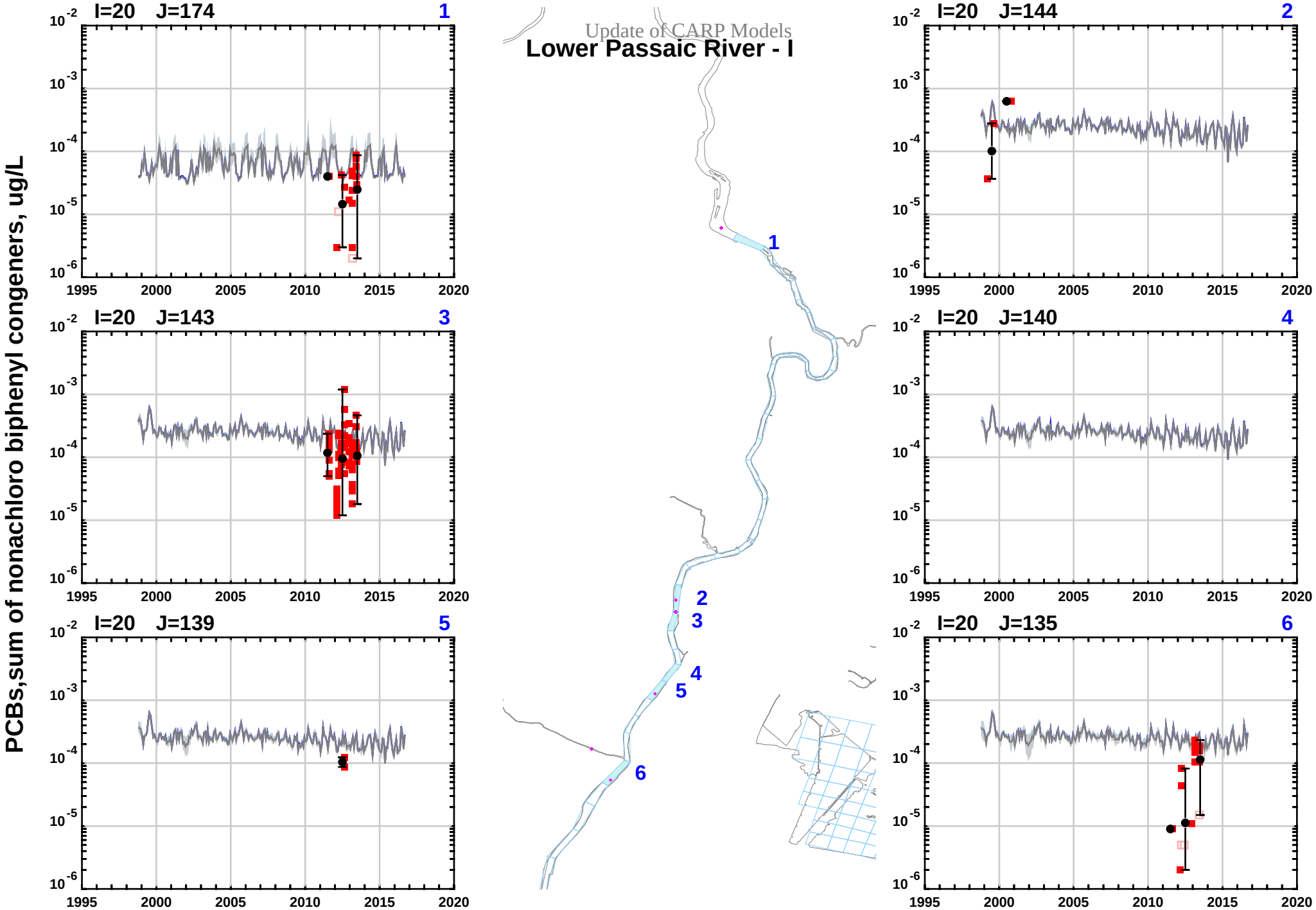

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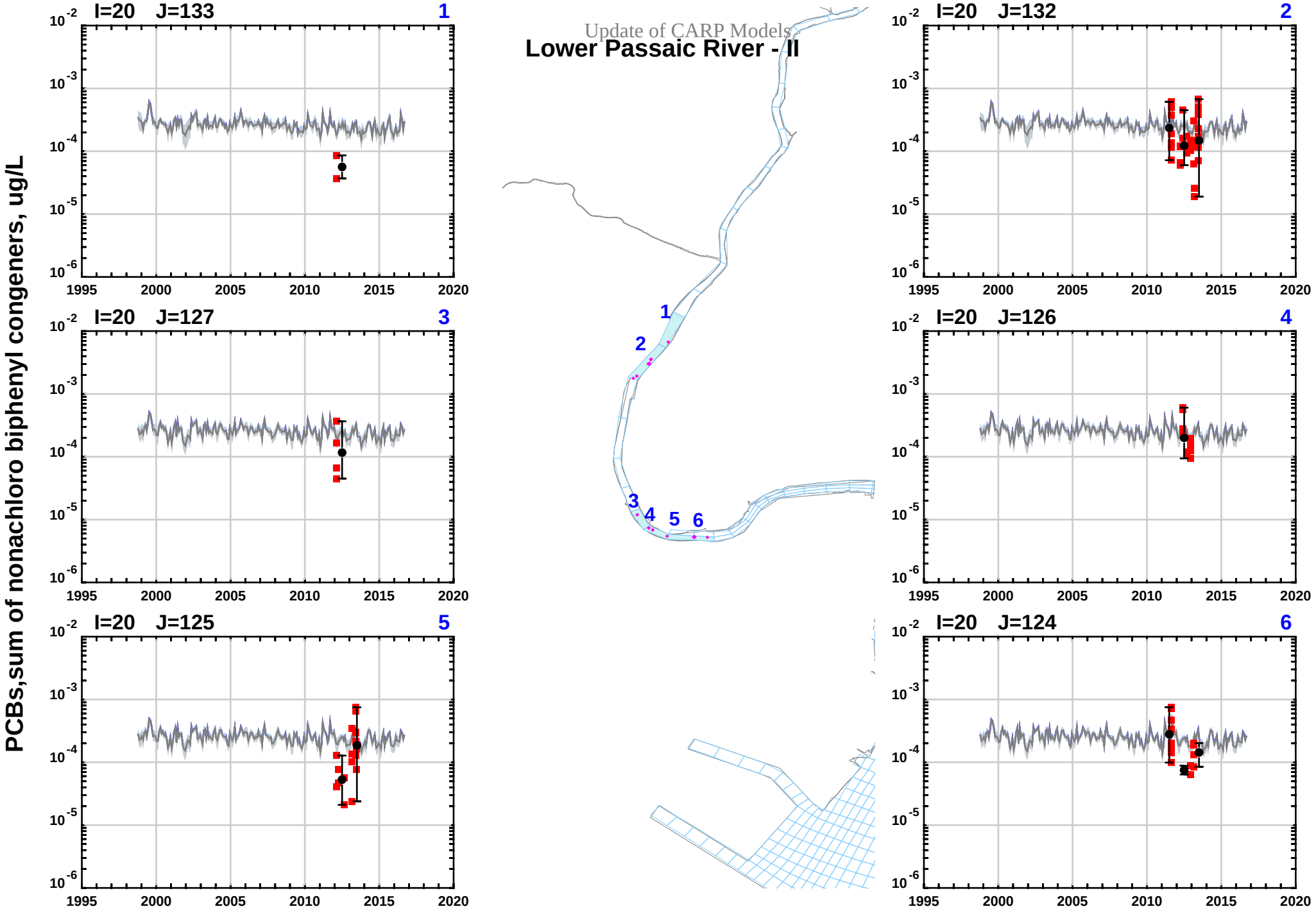

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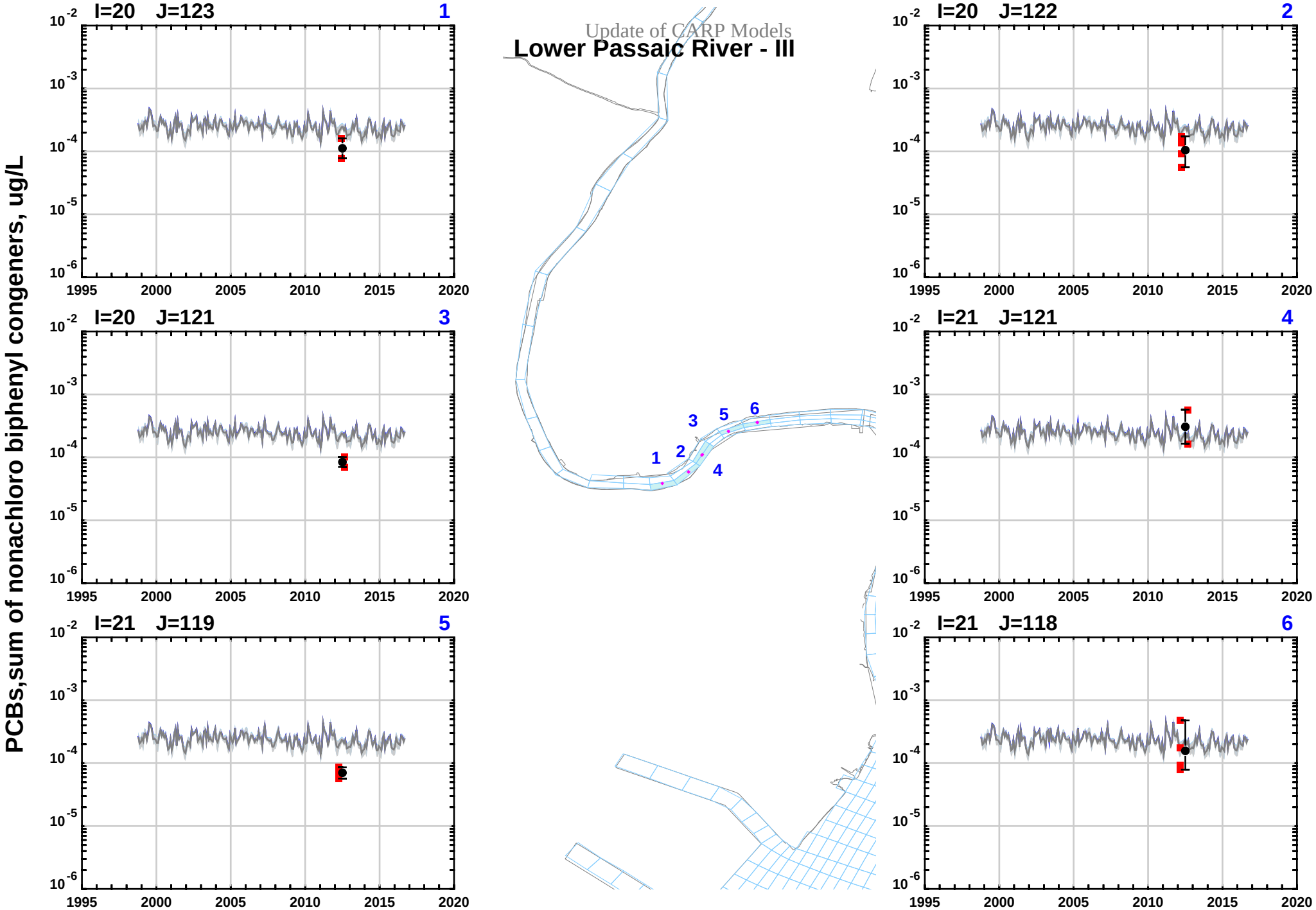

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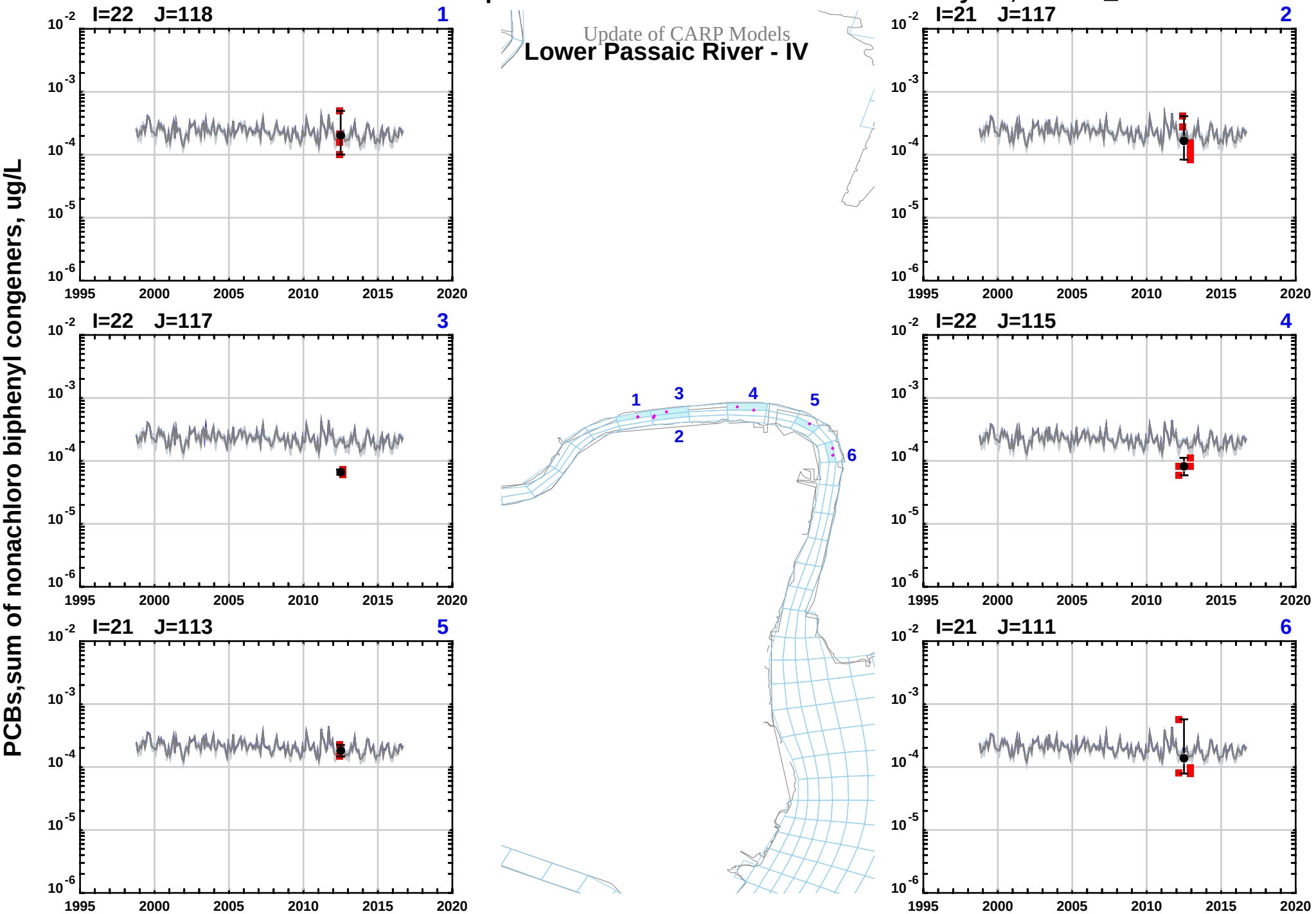
Water Column Data Comparison With Model All Water Column Layers, RUN18_S2

Update of CARP Models

Lower Passaic River - IV



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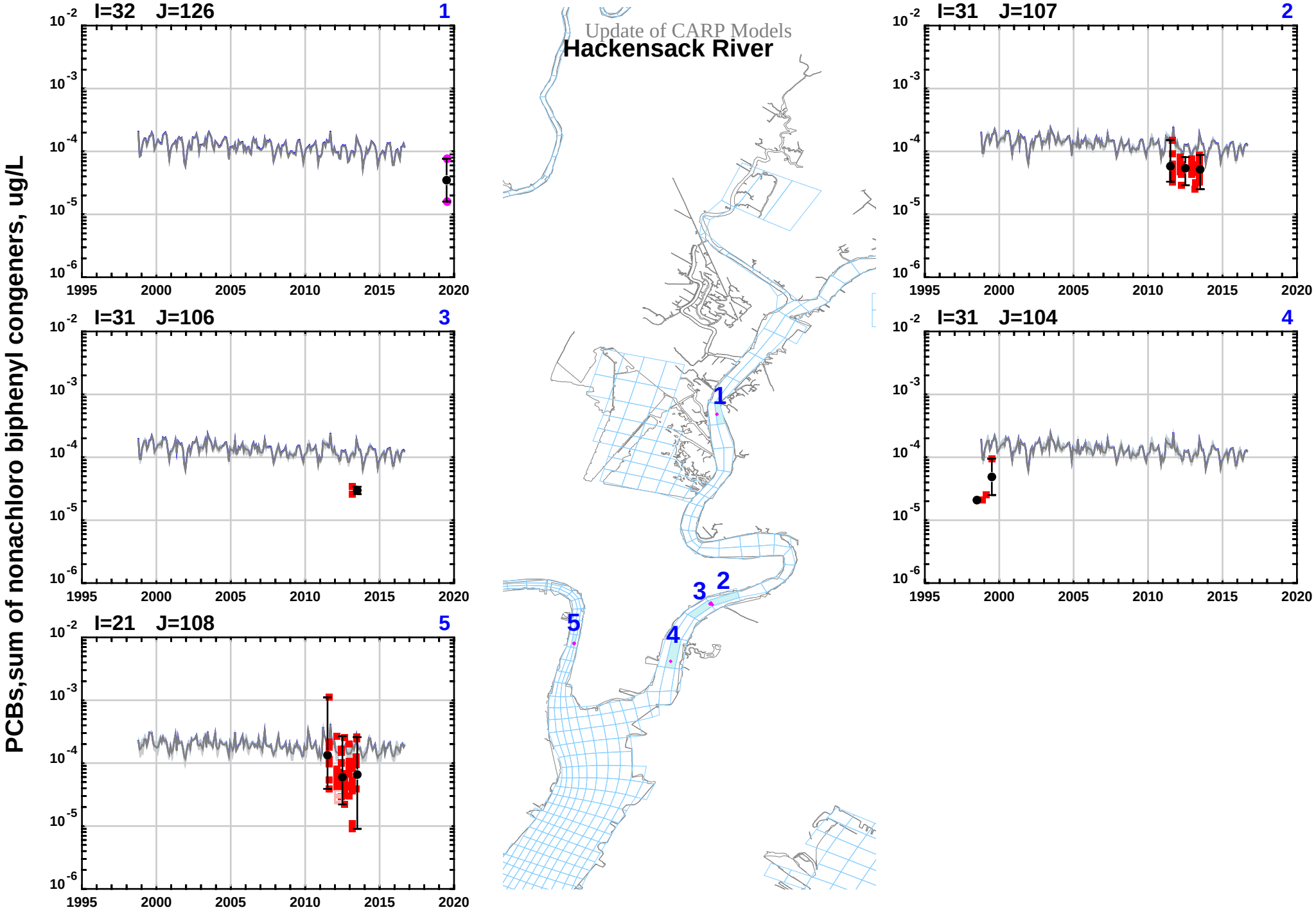

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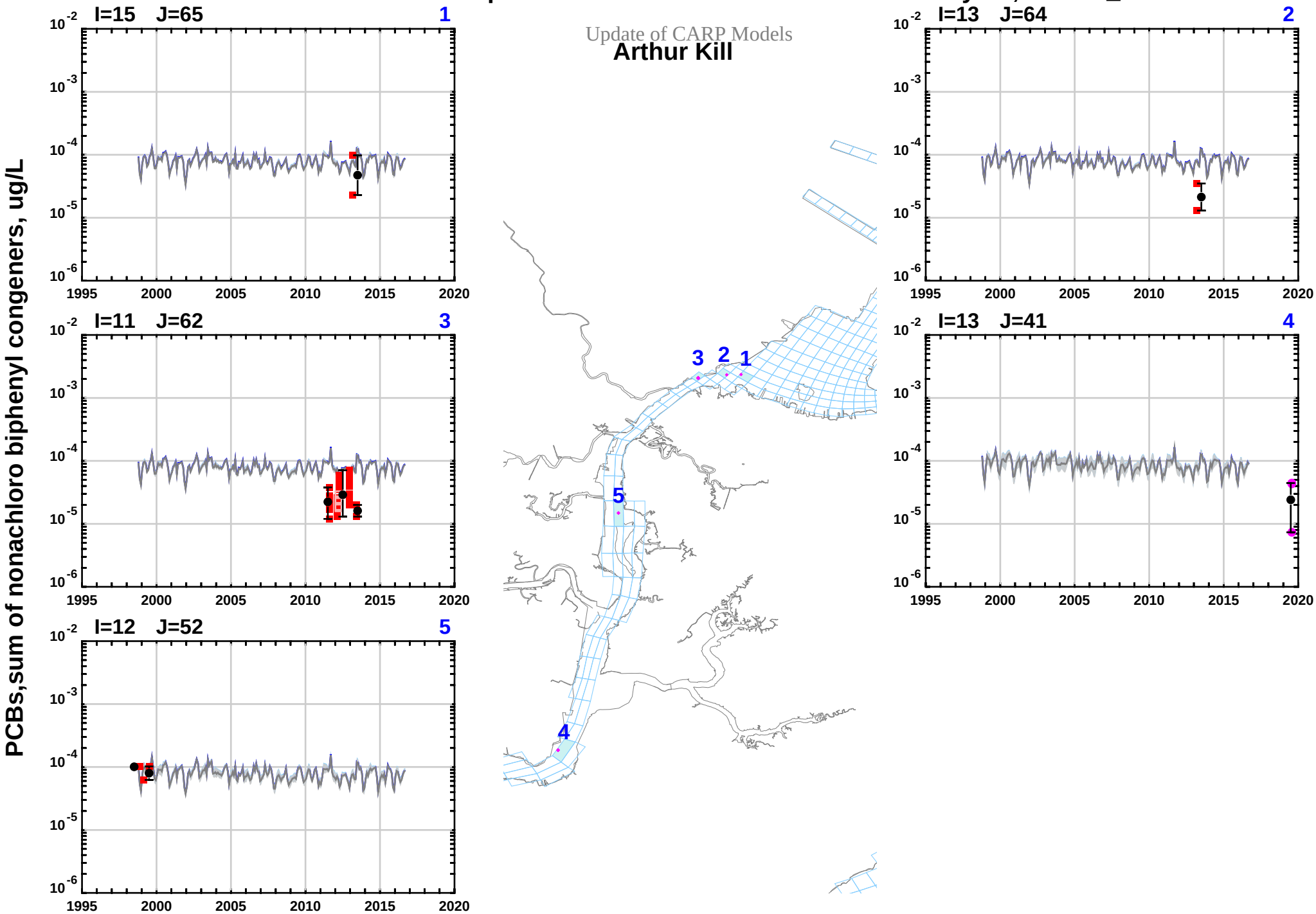

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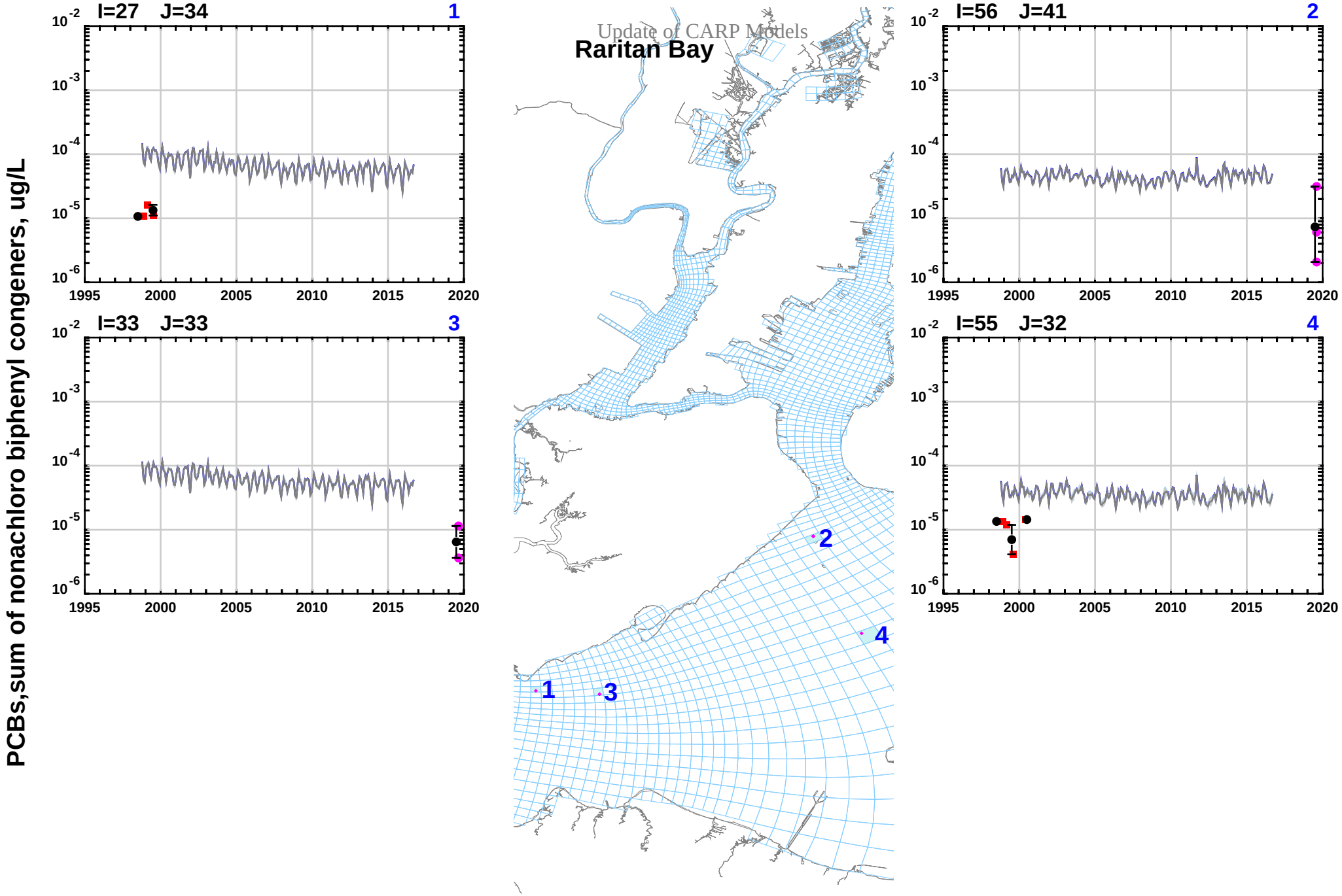

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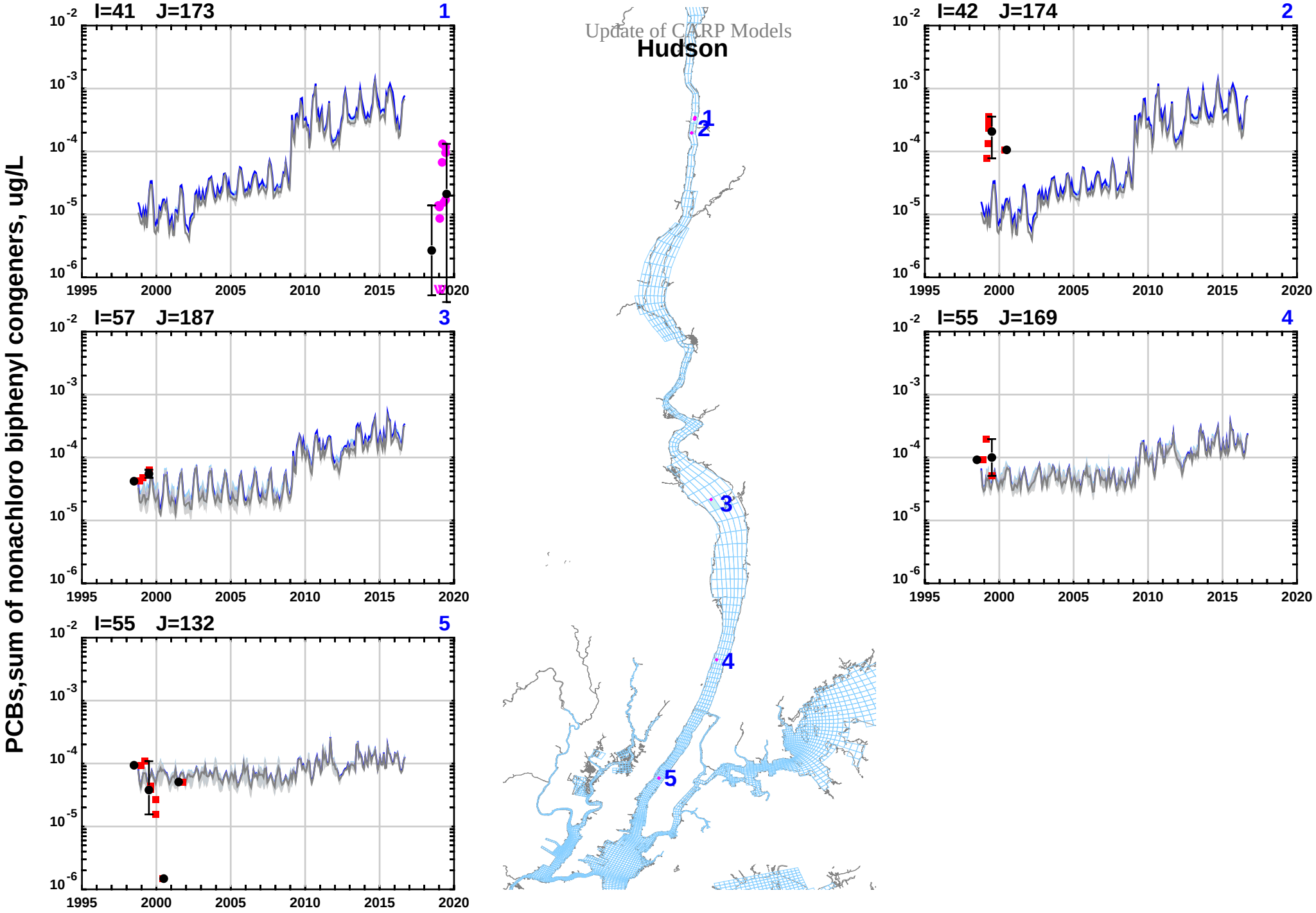

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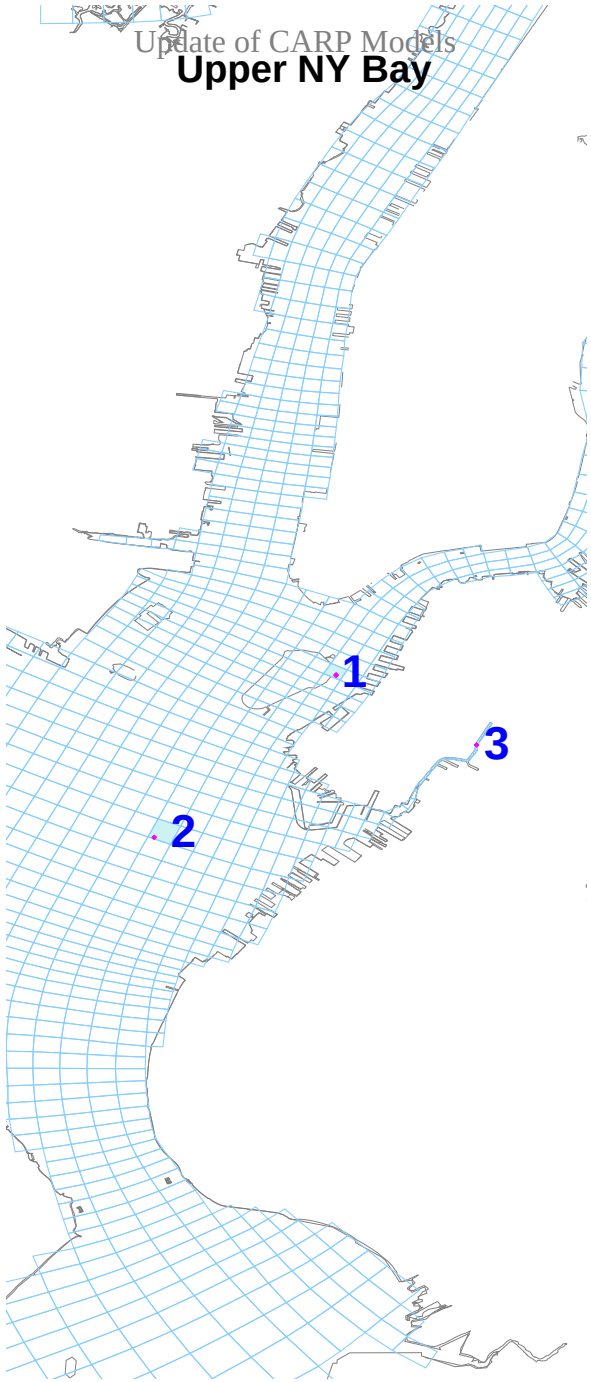
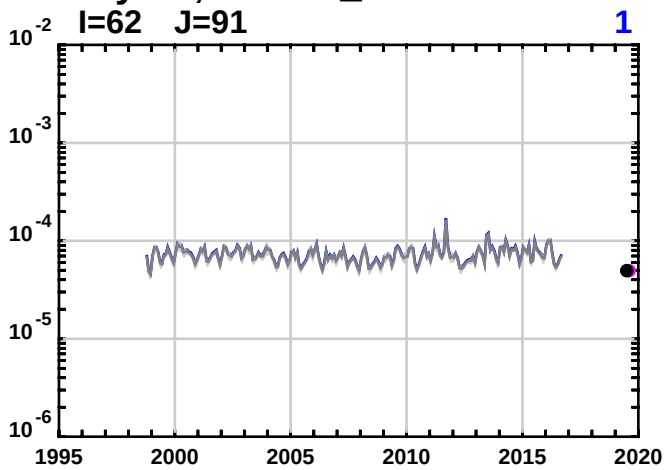
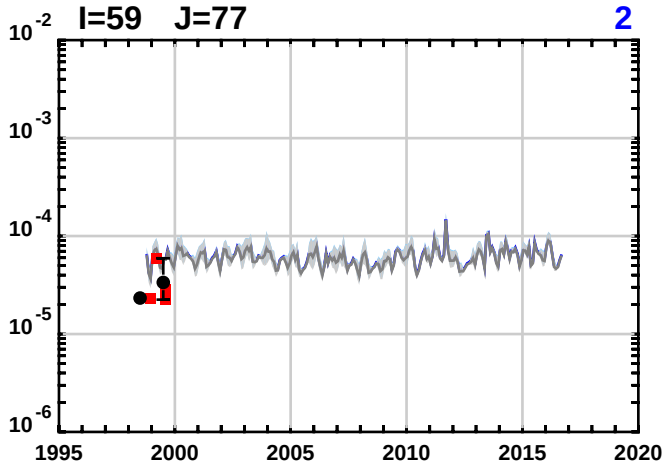
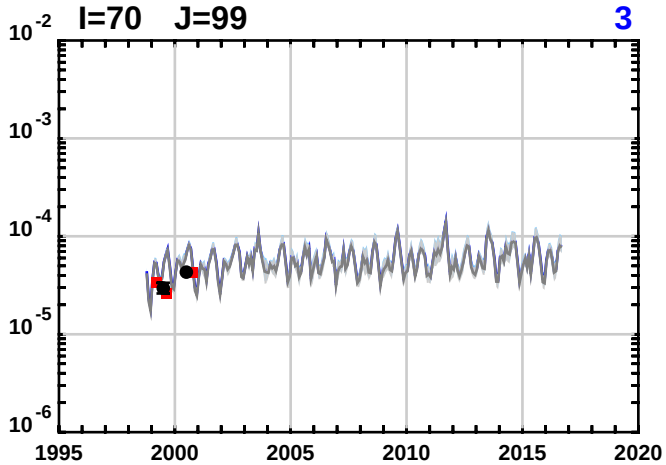
PCBs,sum of nonachloro biphenyl congeners, ug/L









Water Column Data: yearly mean and range

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Detect Data

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Water Column Data Comparison With Model All Water Column Layers, RUN18_S2

East River and Jamaica Bay

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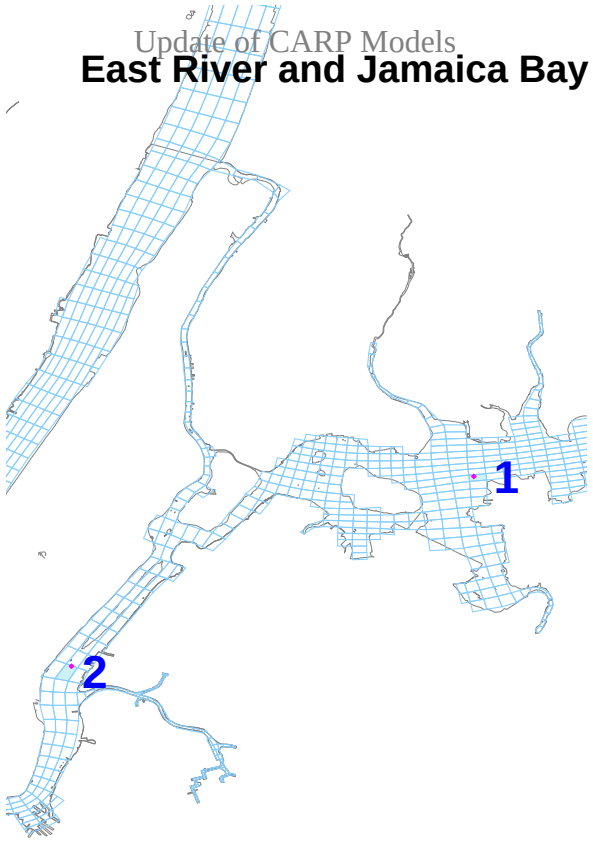

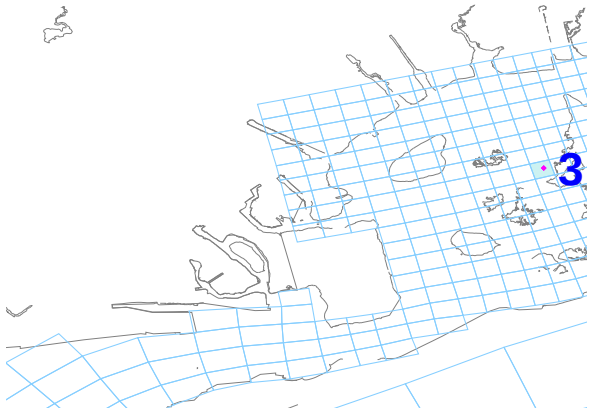

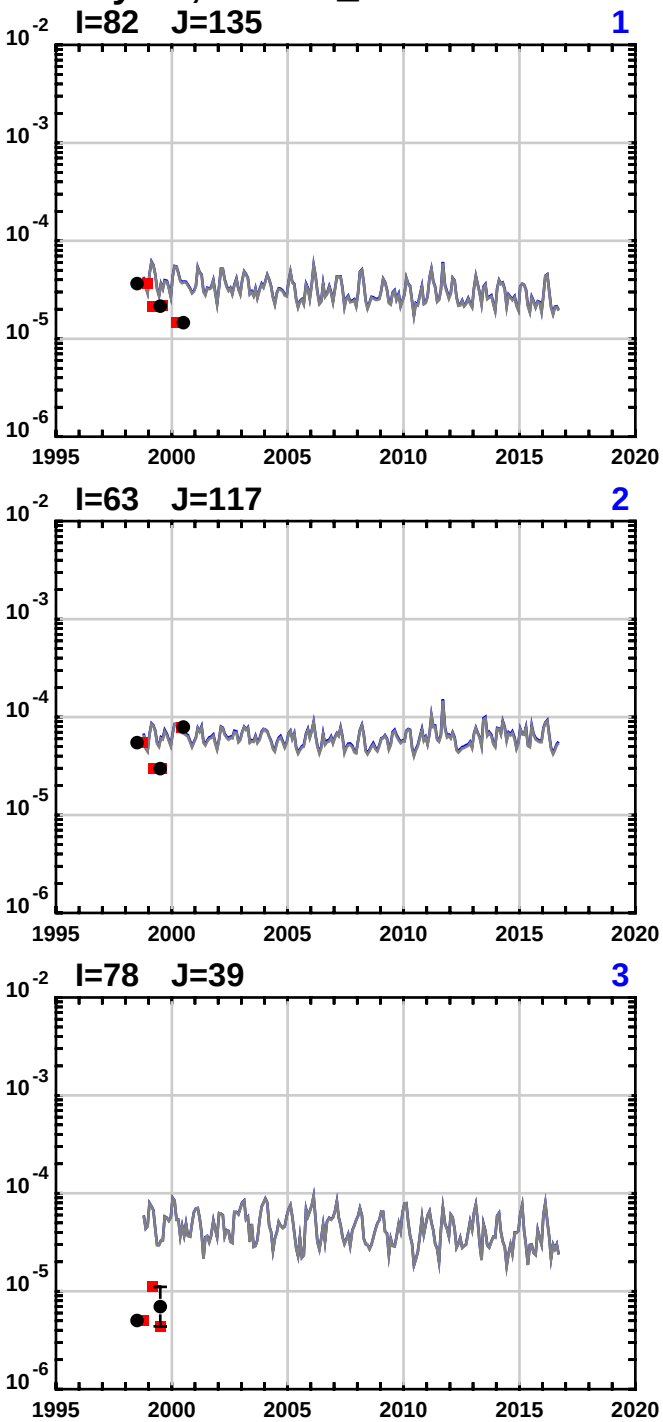

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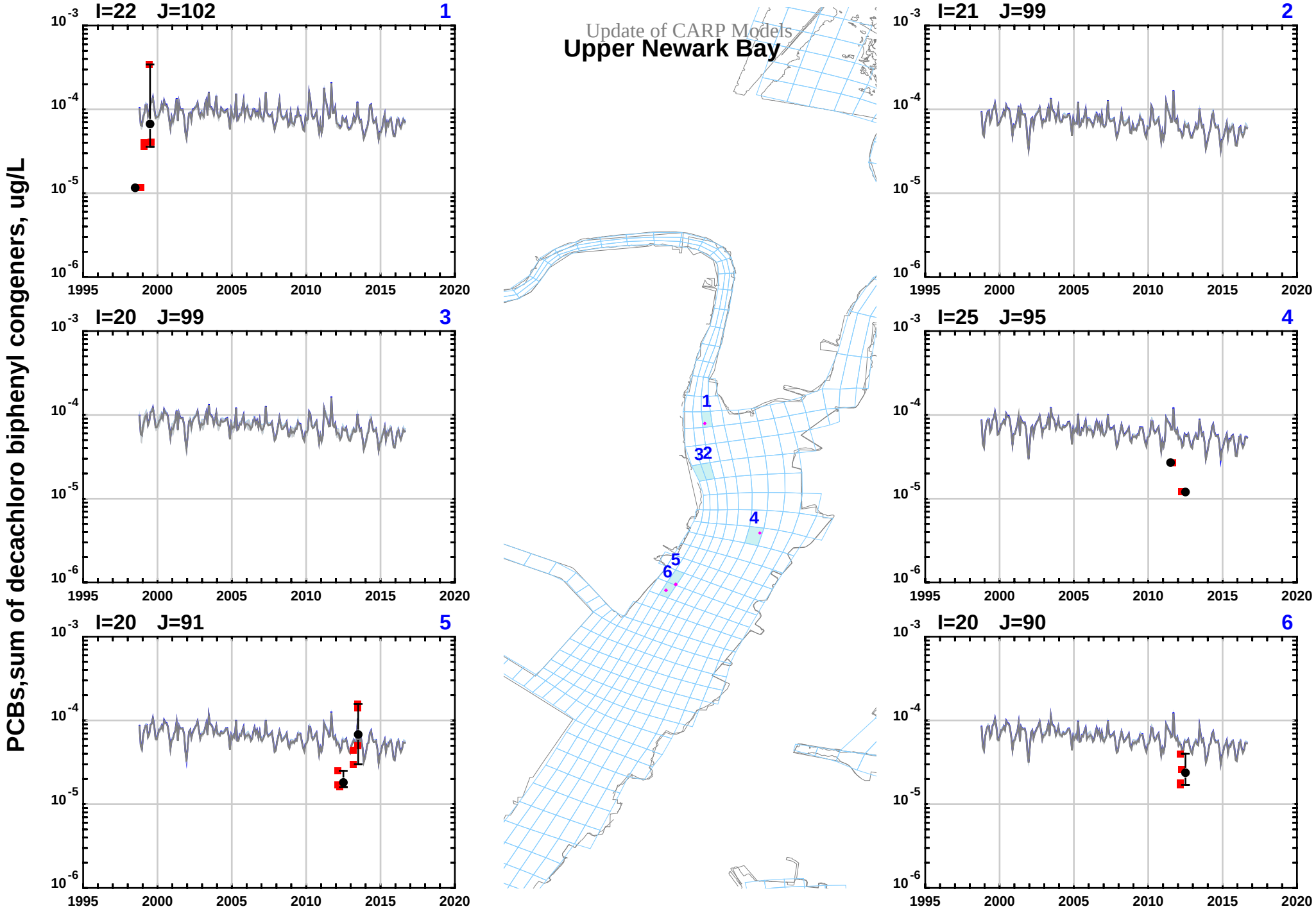

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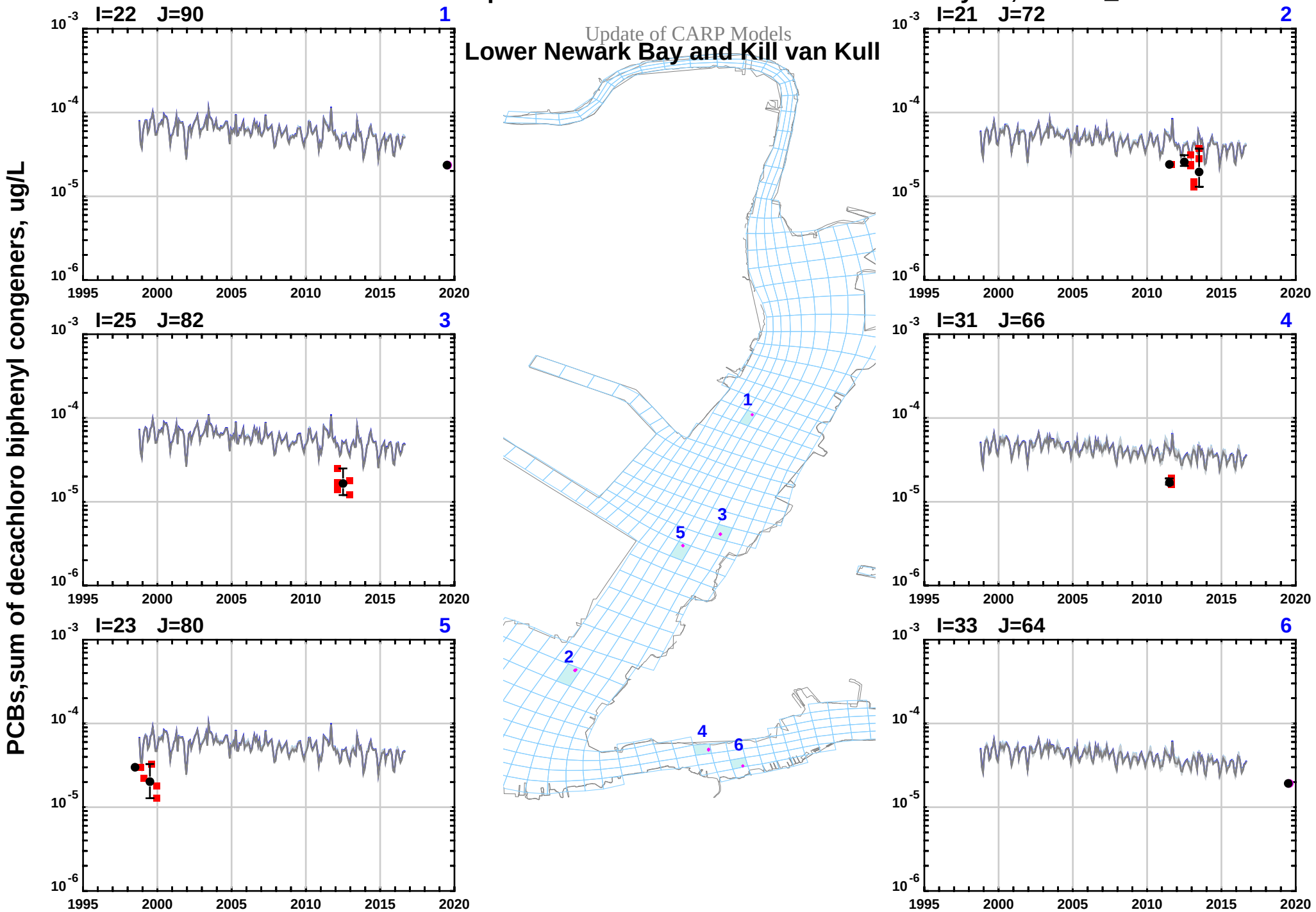

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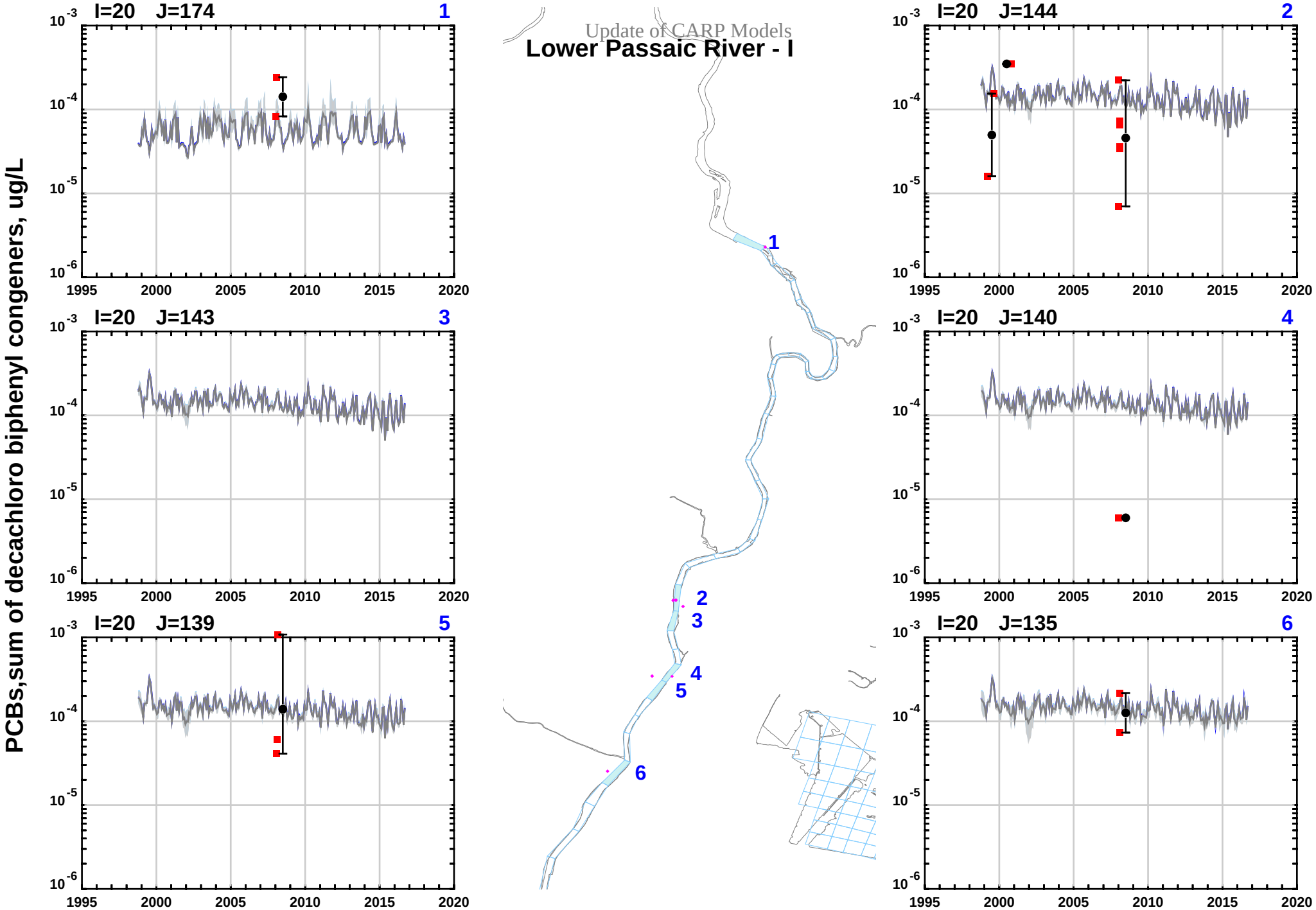

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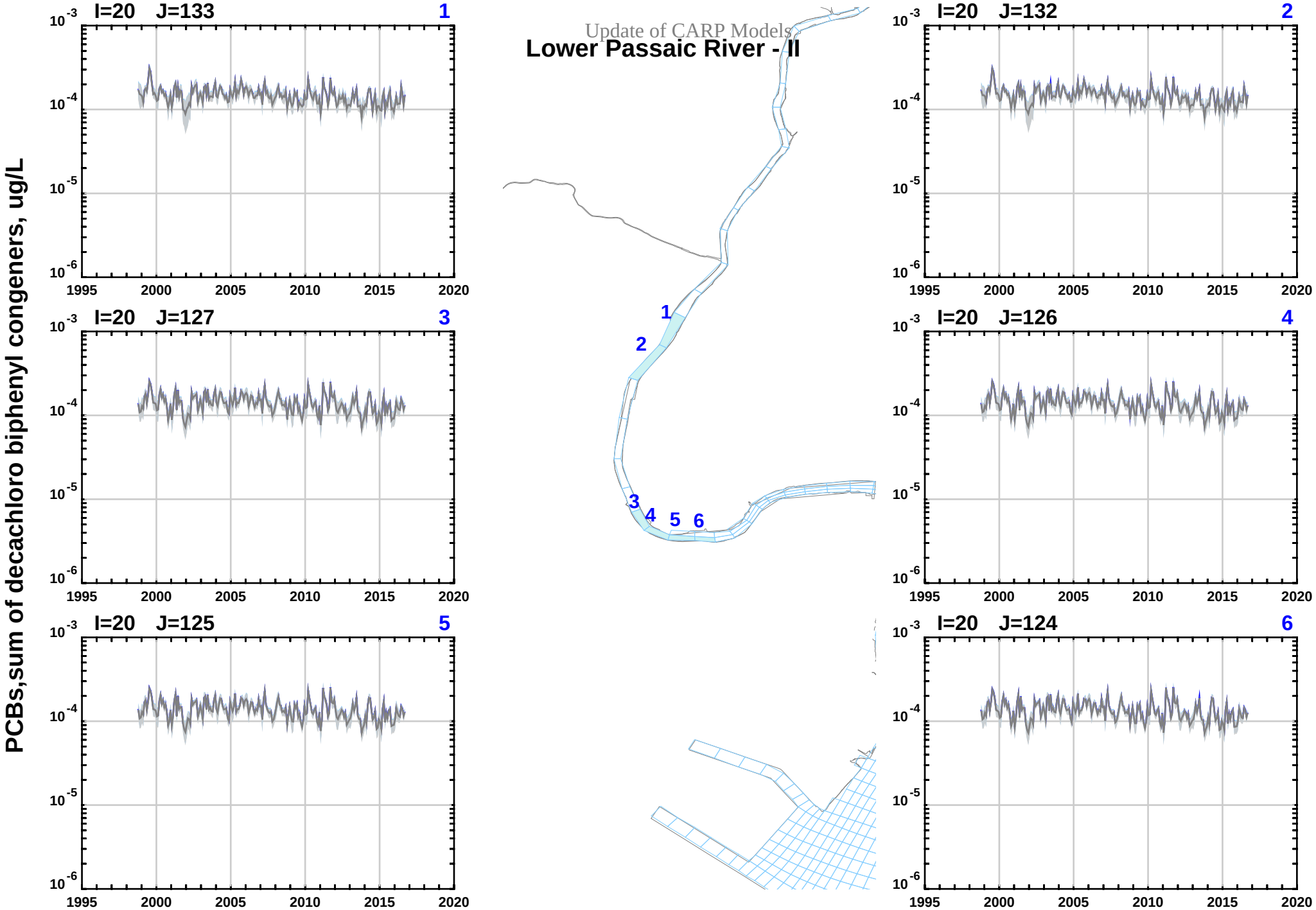

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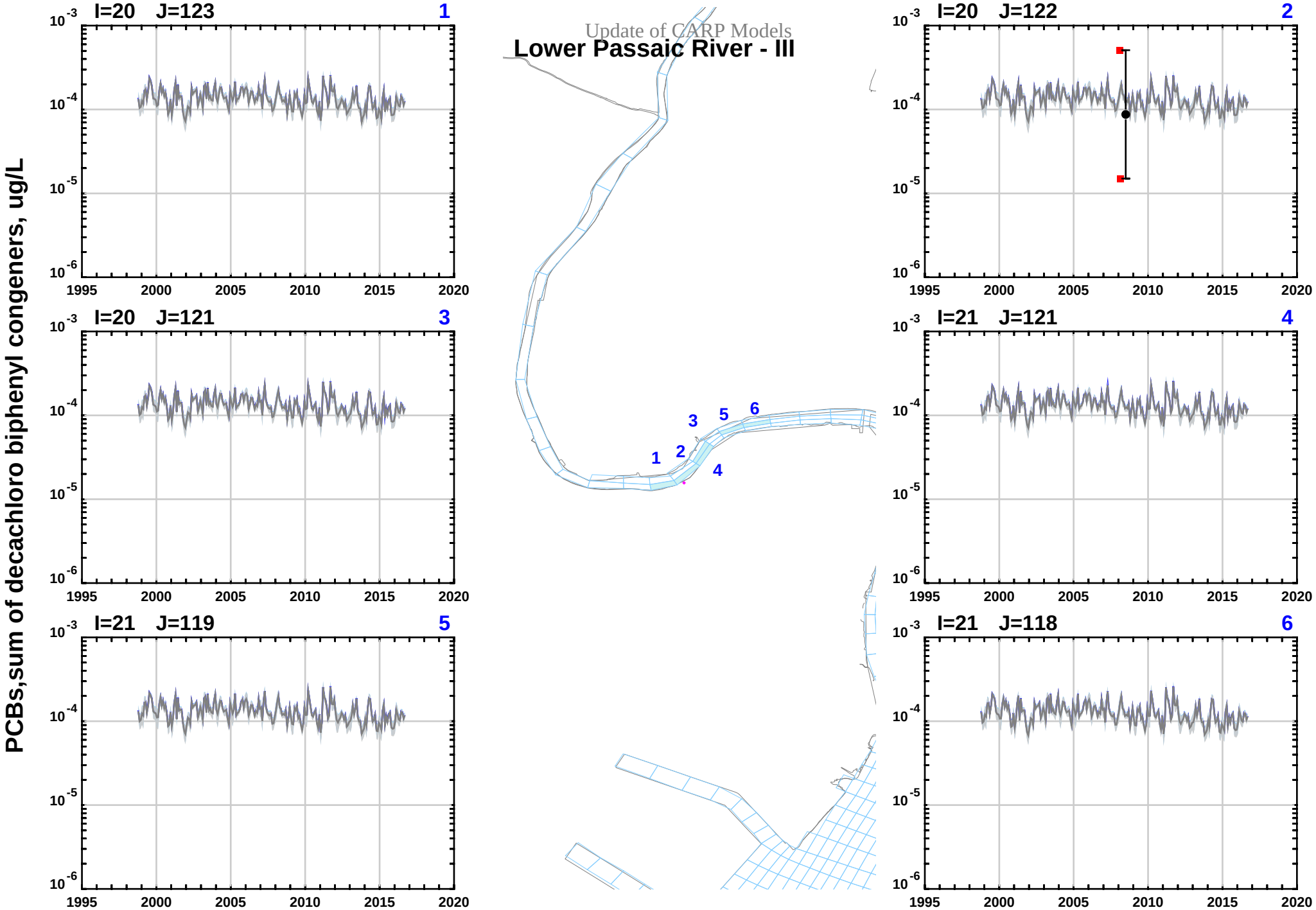

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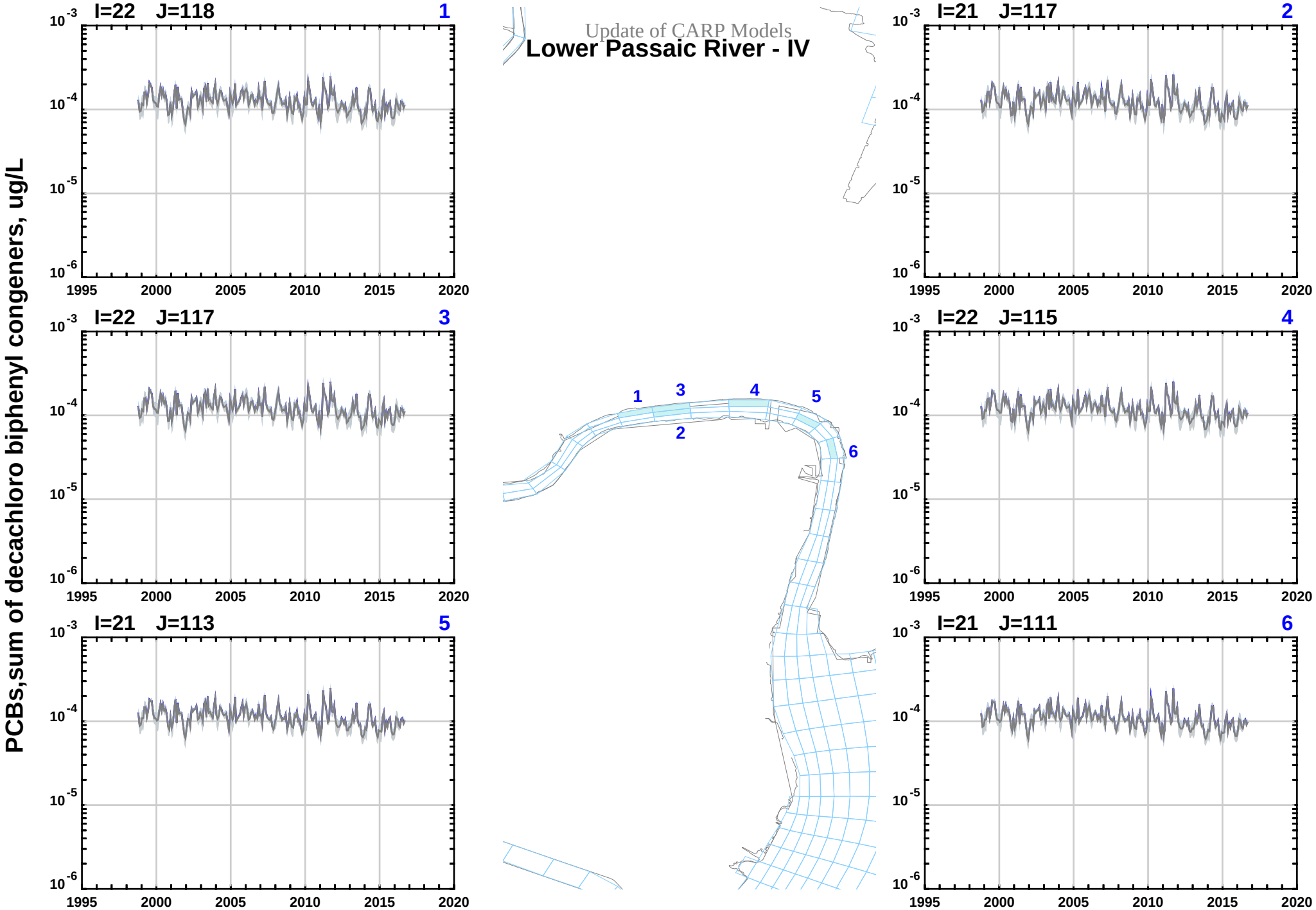

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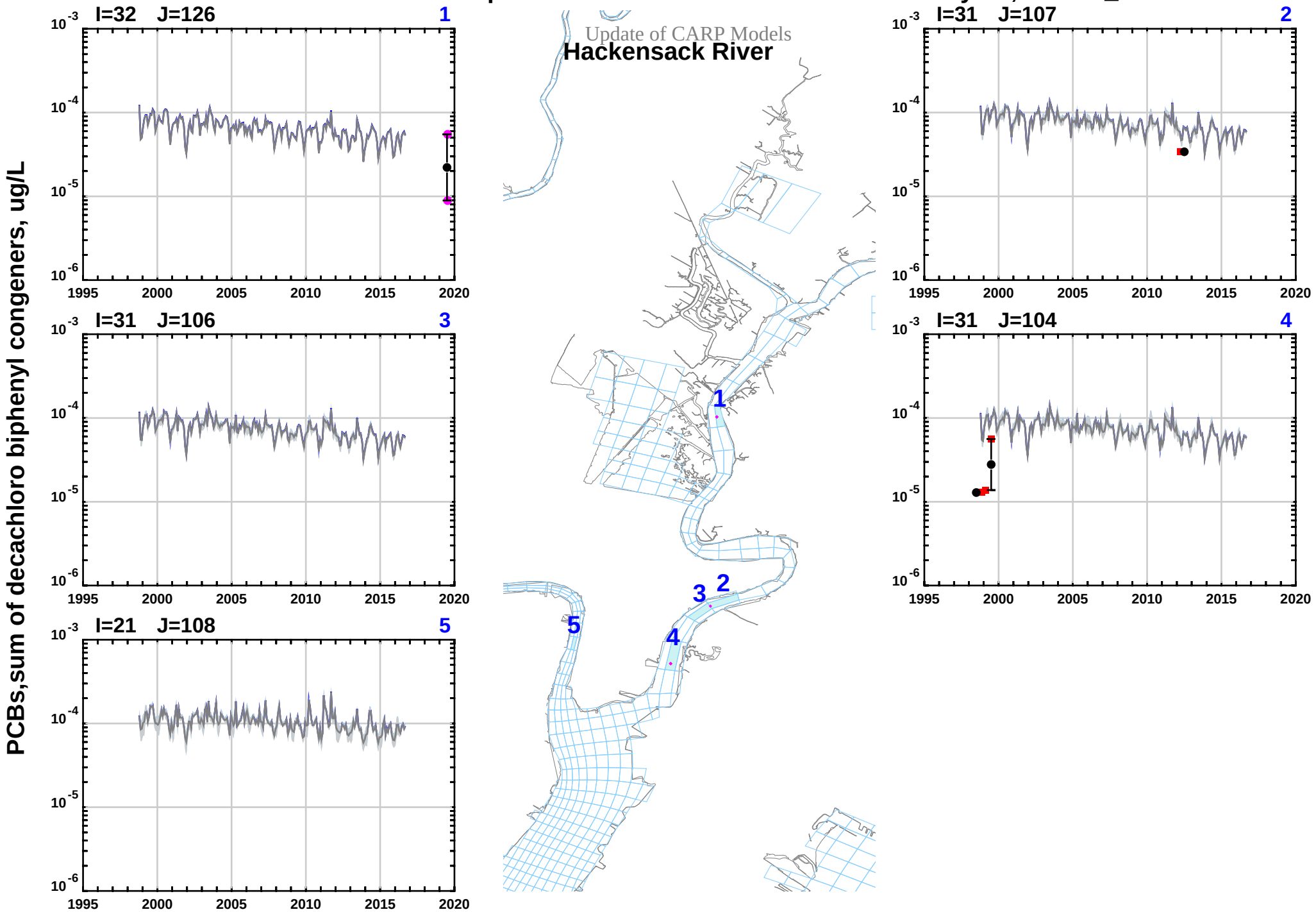

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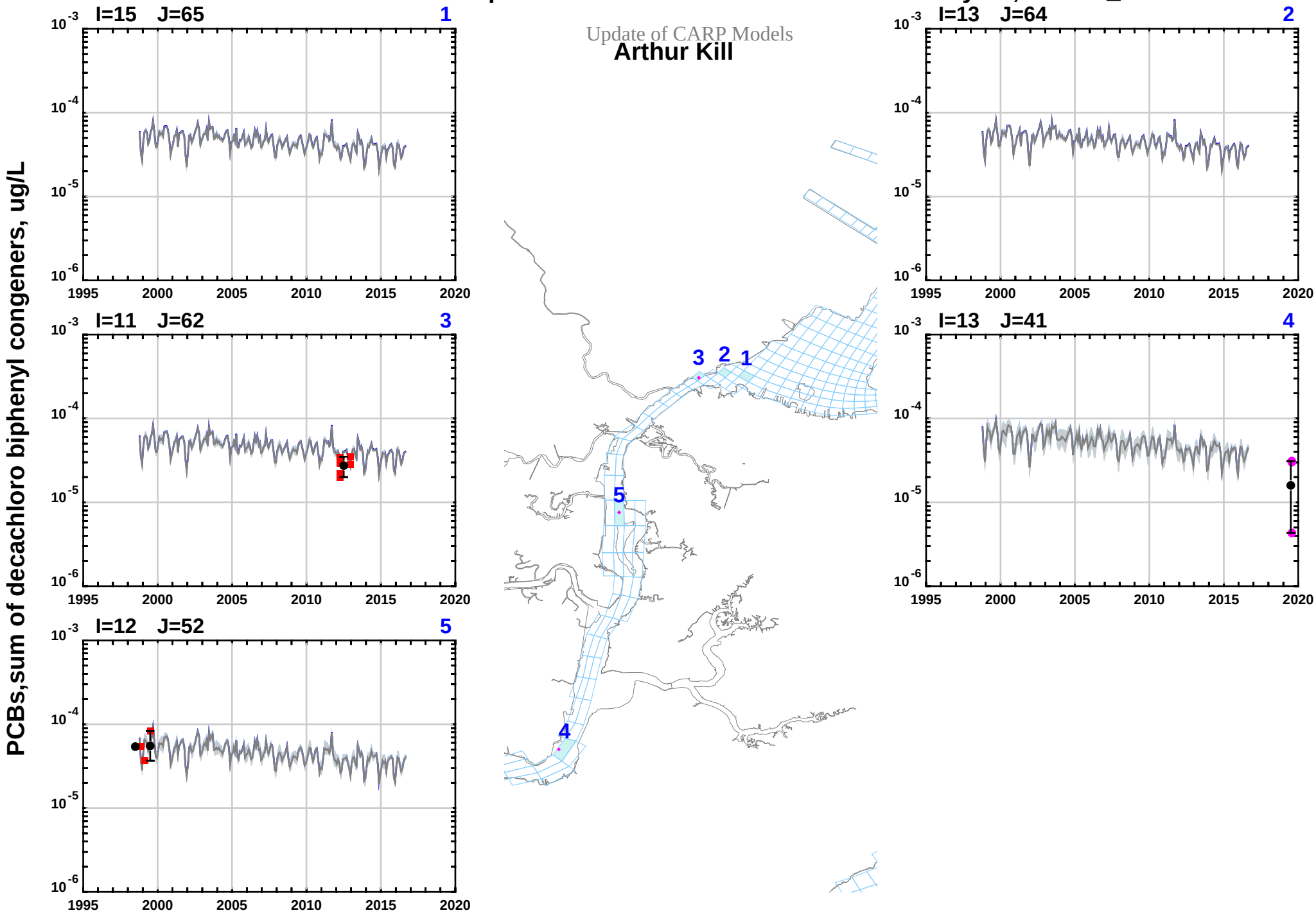

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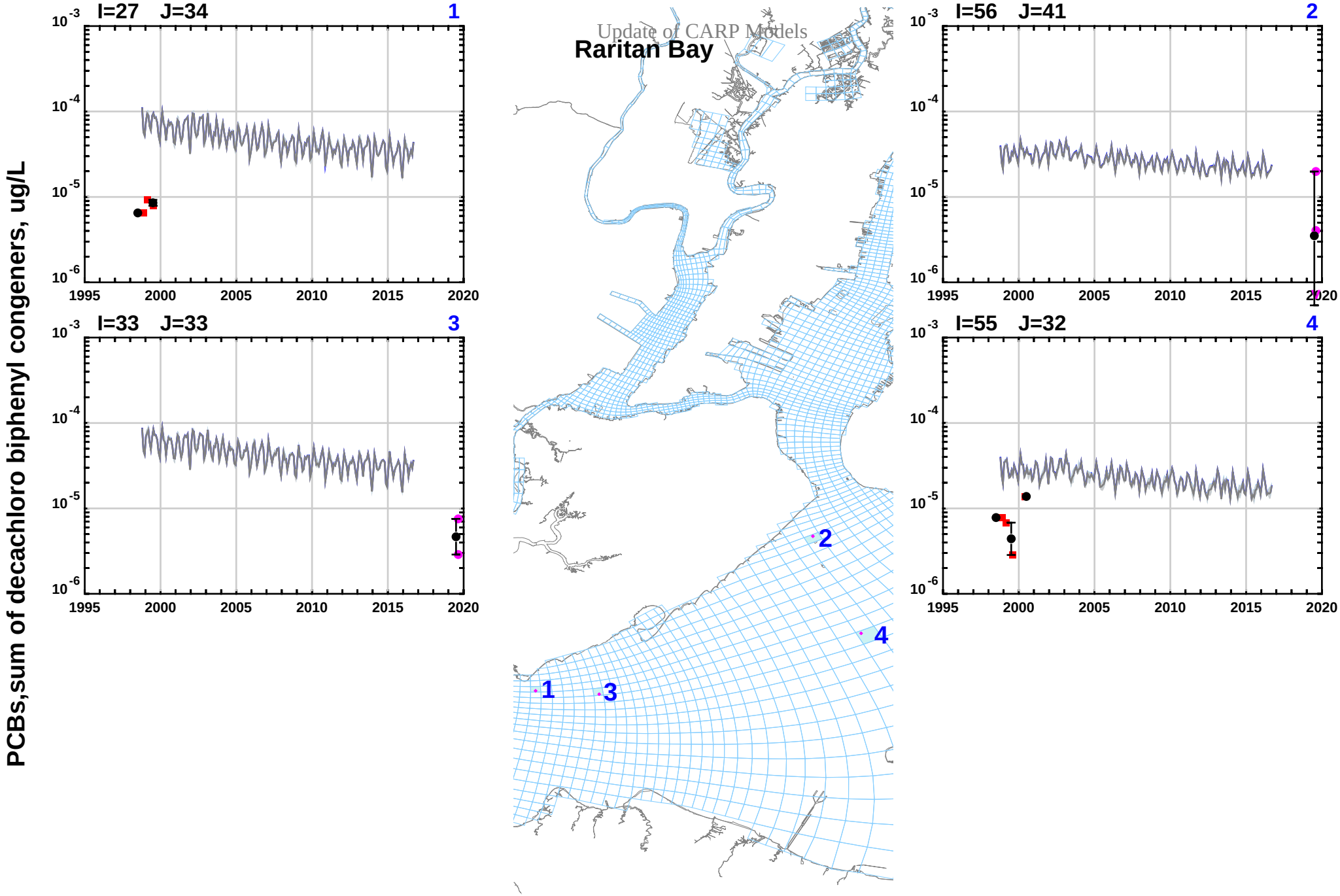

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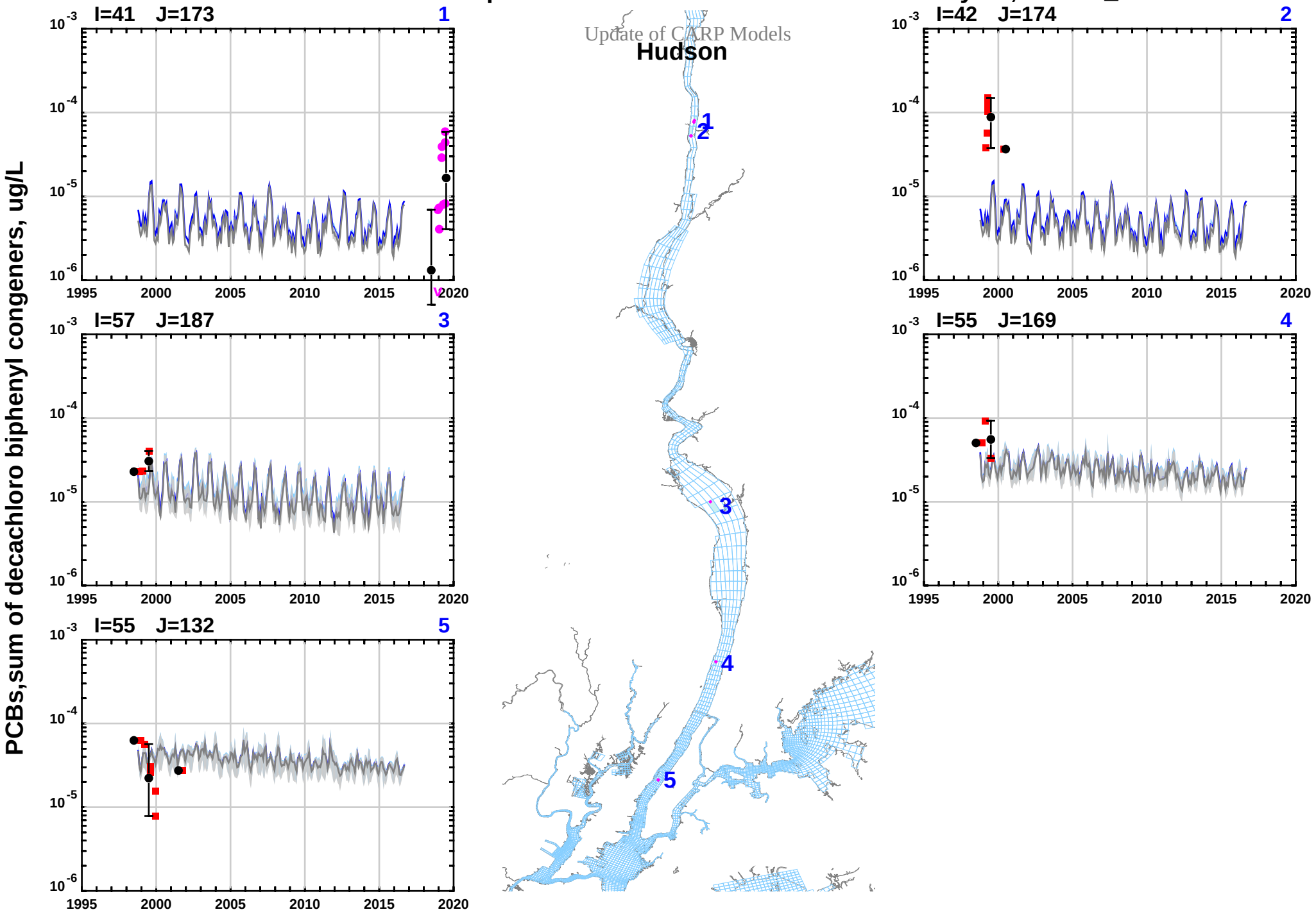

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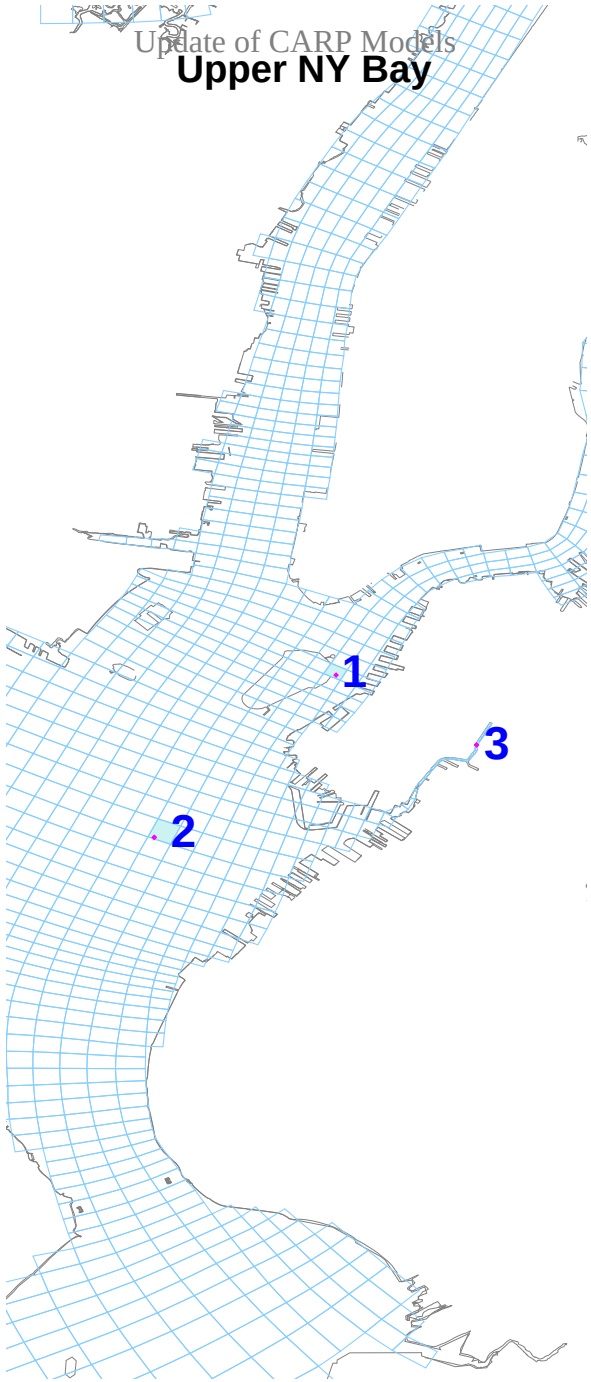
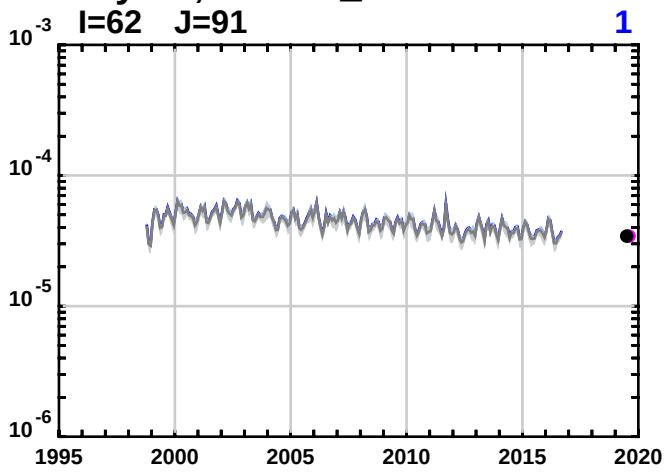
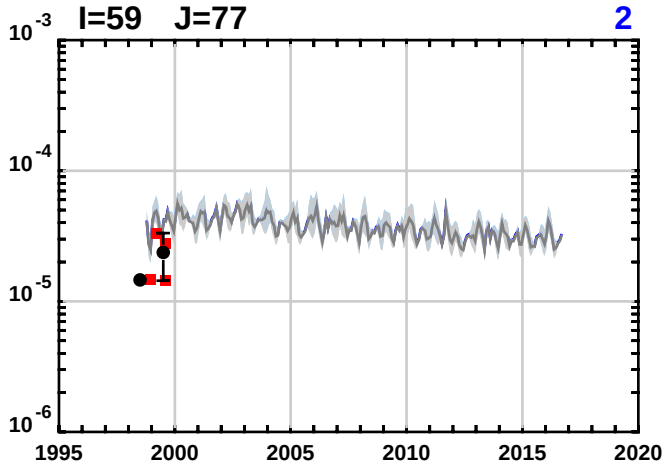
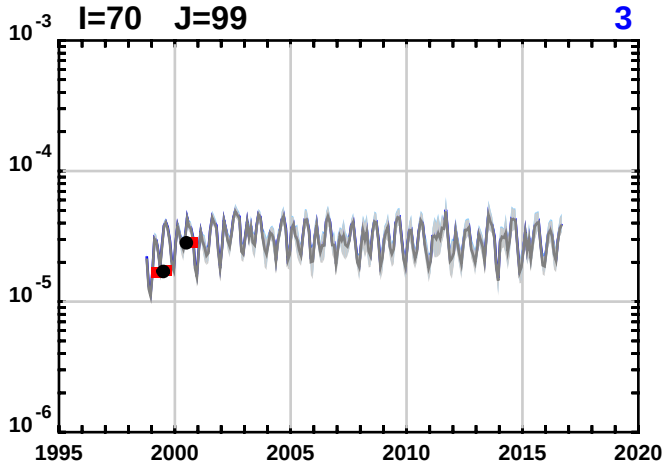
Water Column Data Comparison With Model All Water Column Layers, RUN18_S2

PCBs,sum of decachloro biphenyl congeners, ug/L









Water Column Data: yearly mean and range

CARP2 Data

Detect Data

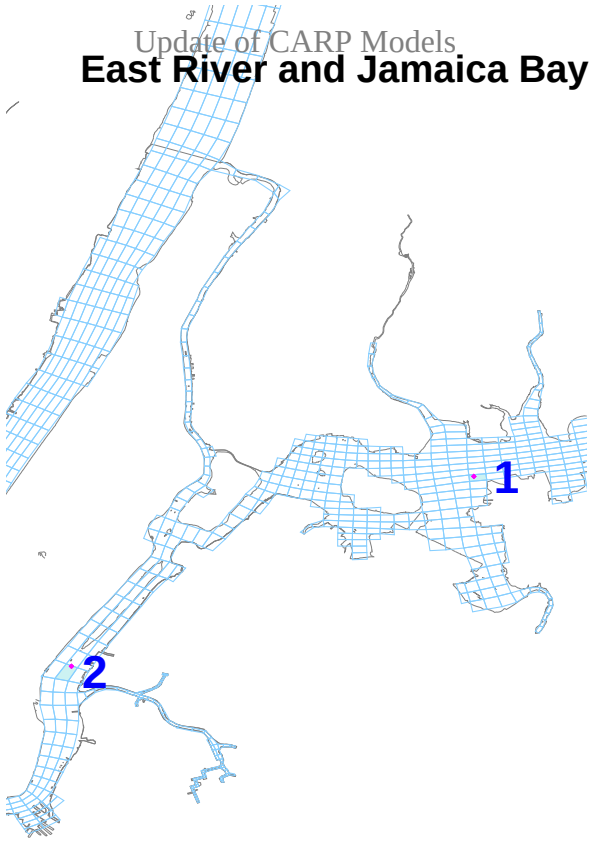
Non-Detect Data

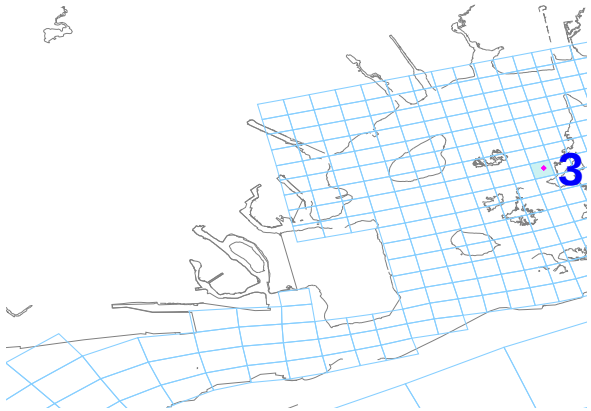
Model: mean and range of values in Water Column

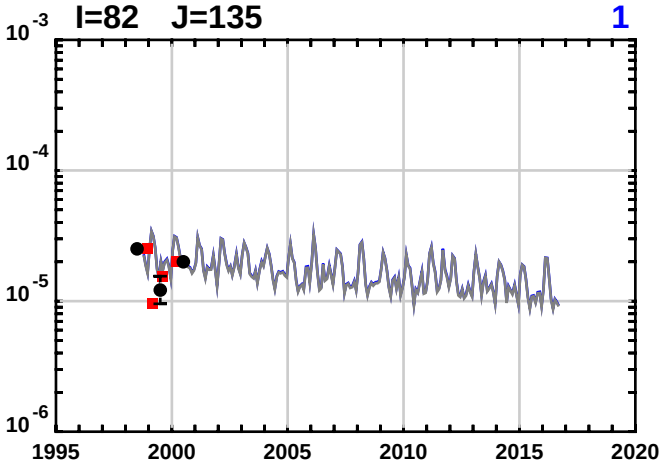
Model: Particulate Phase mean and range of values in Water Column

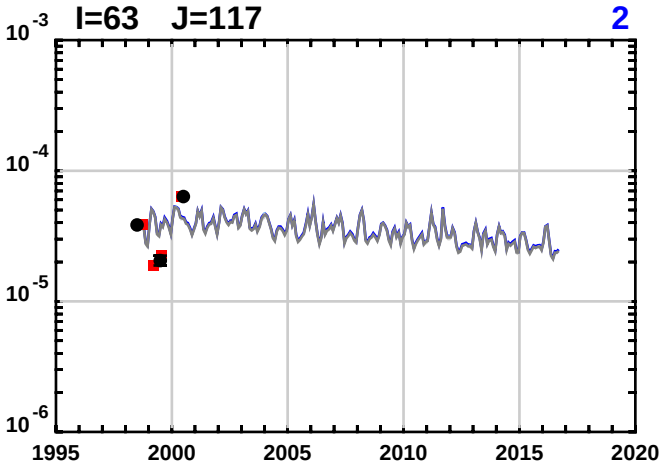
Water Column Data Comparison With Model All Water Column Layers, RUN18_S2

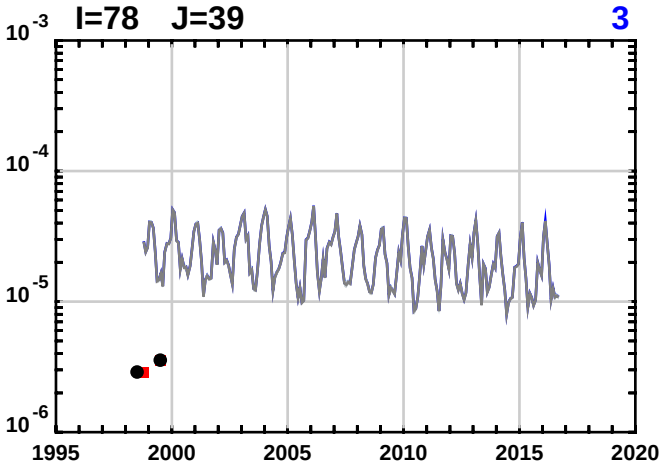
East River and Jamaica Bay











PCBs,sum of decachloro biphenyl congeners, ug/L

Detect Data Non-Detect Data

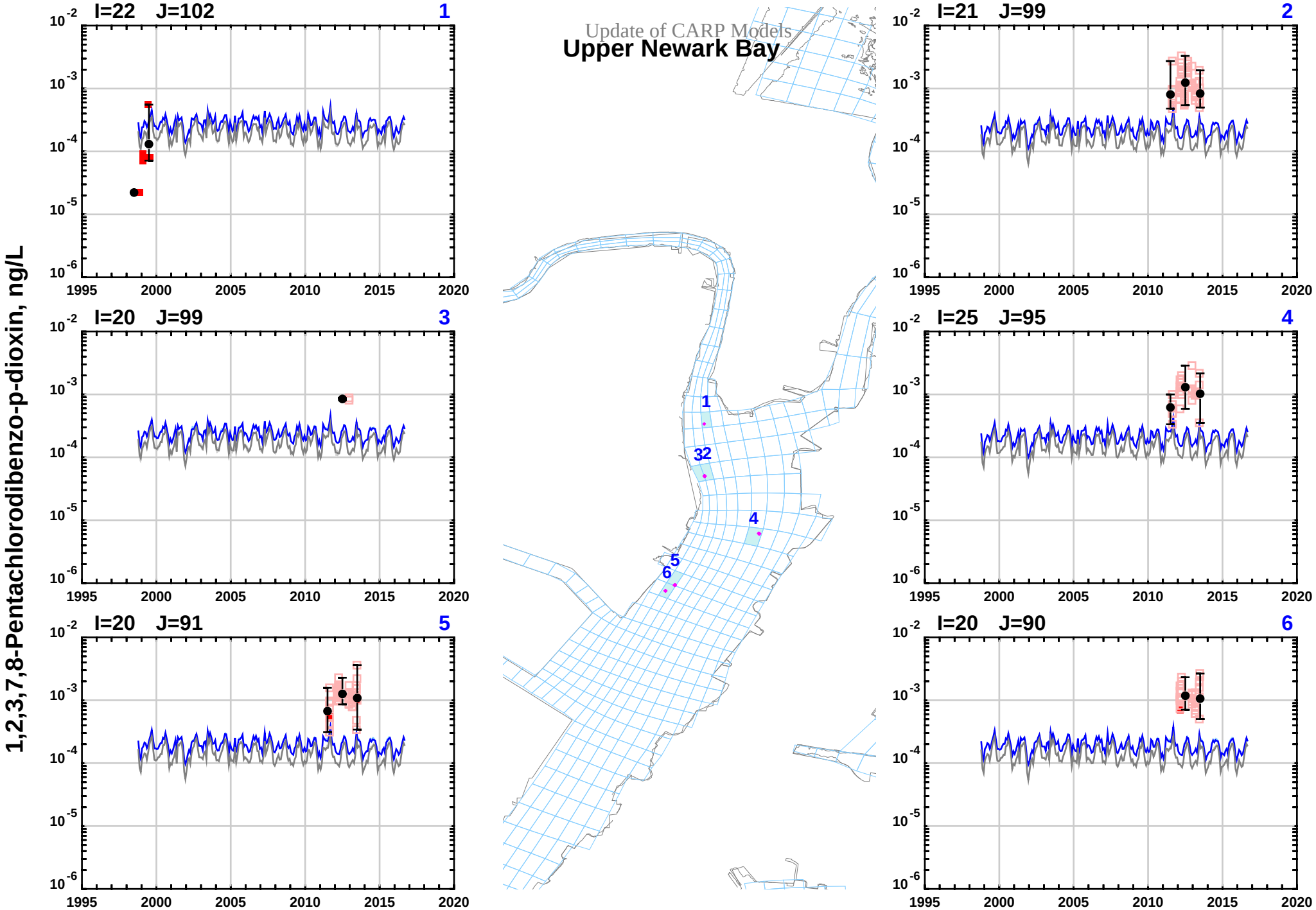
Model: mean and range of values in Water Column

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

● Water Column Data: yearly mean and range

● CARP2 Data

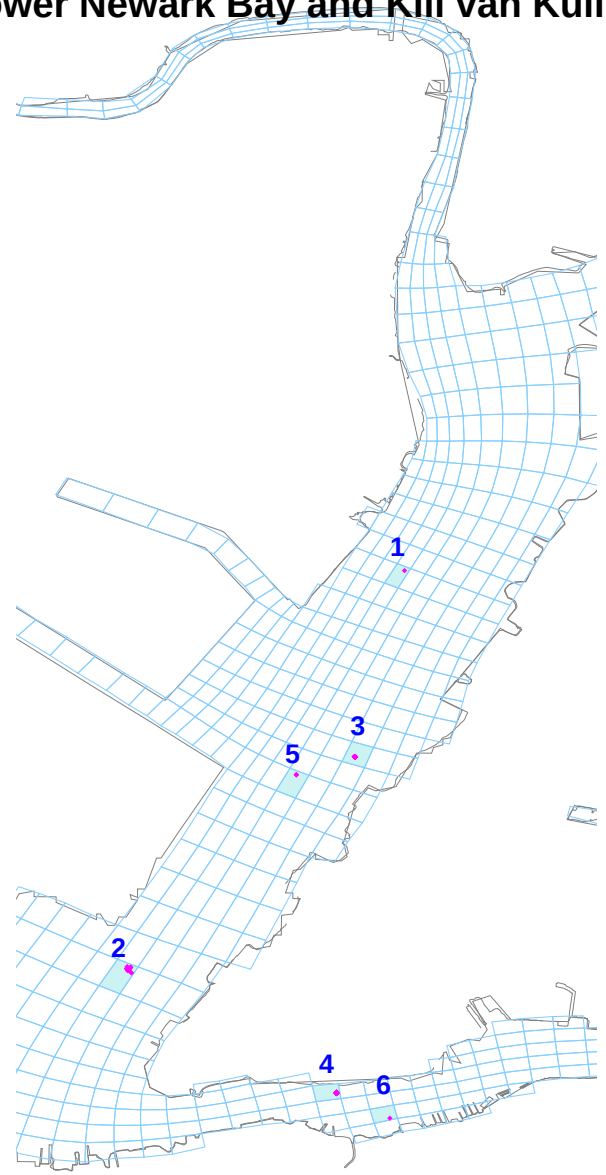
Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2

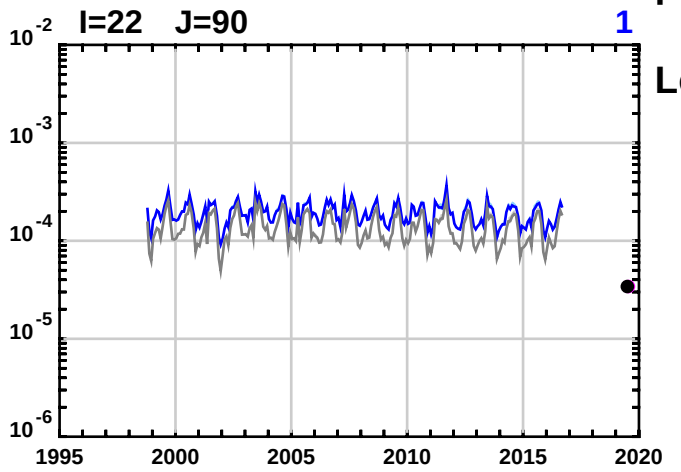


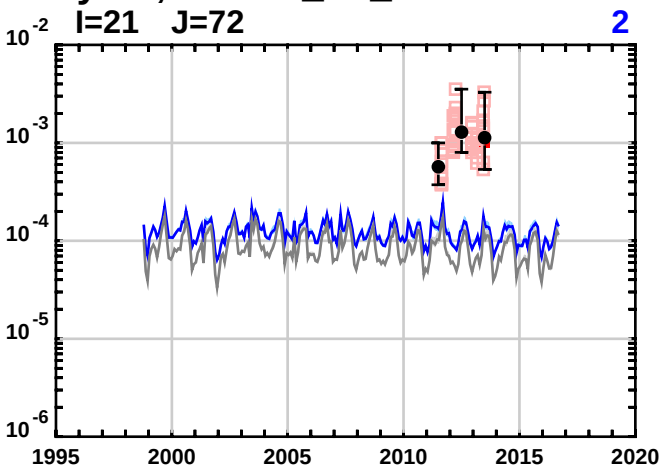
Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2

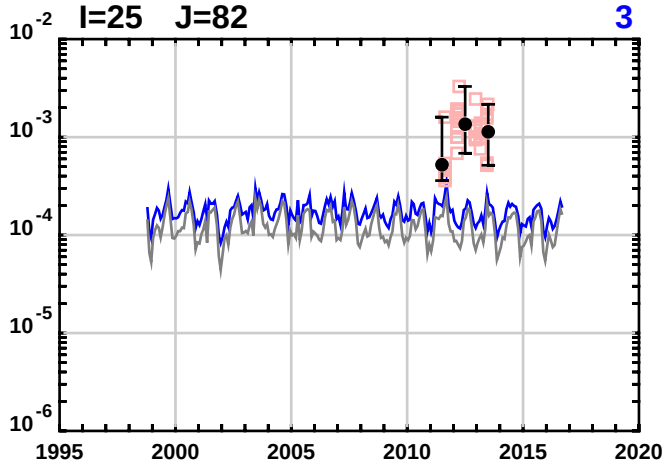
Update of CARP Models

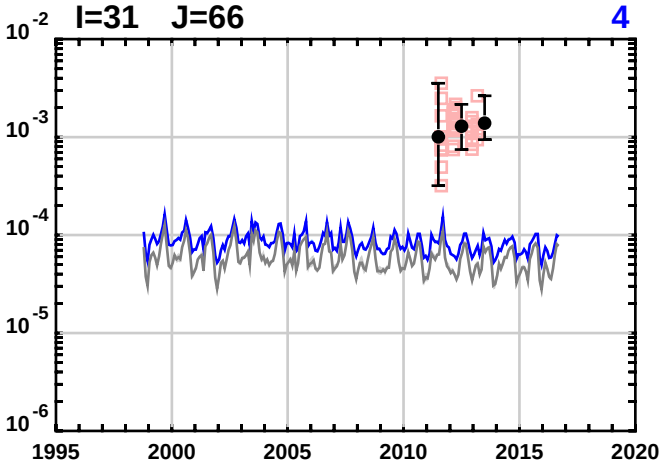
Lower Newark Bay and Kill van Kull

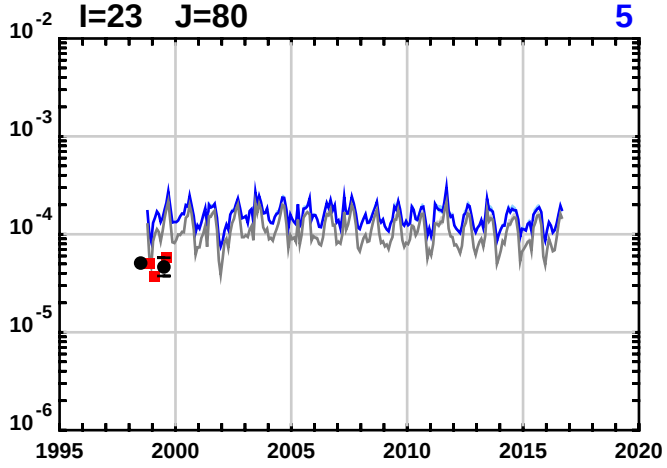


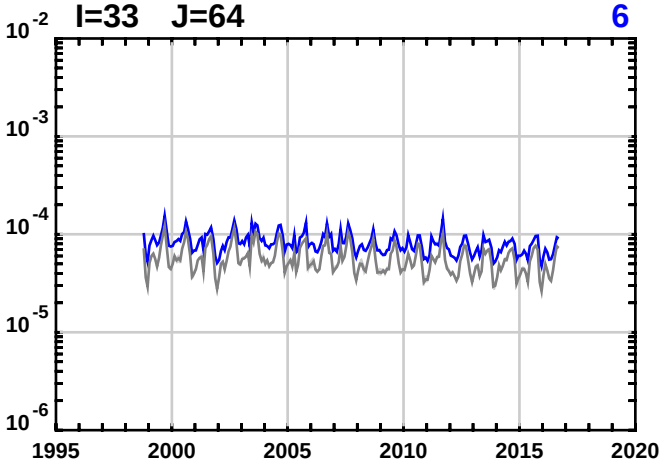












1,2,3,7,8-Pentachlorodibenzo-p-dioxin, ng/L

Detect Data Non-Detect Data

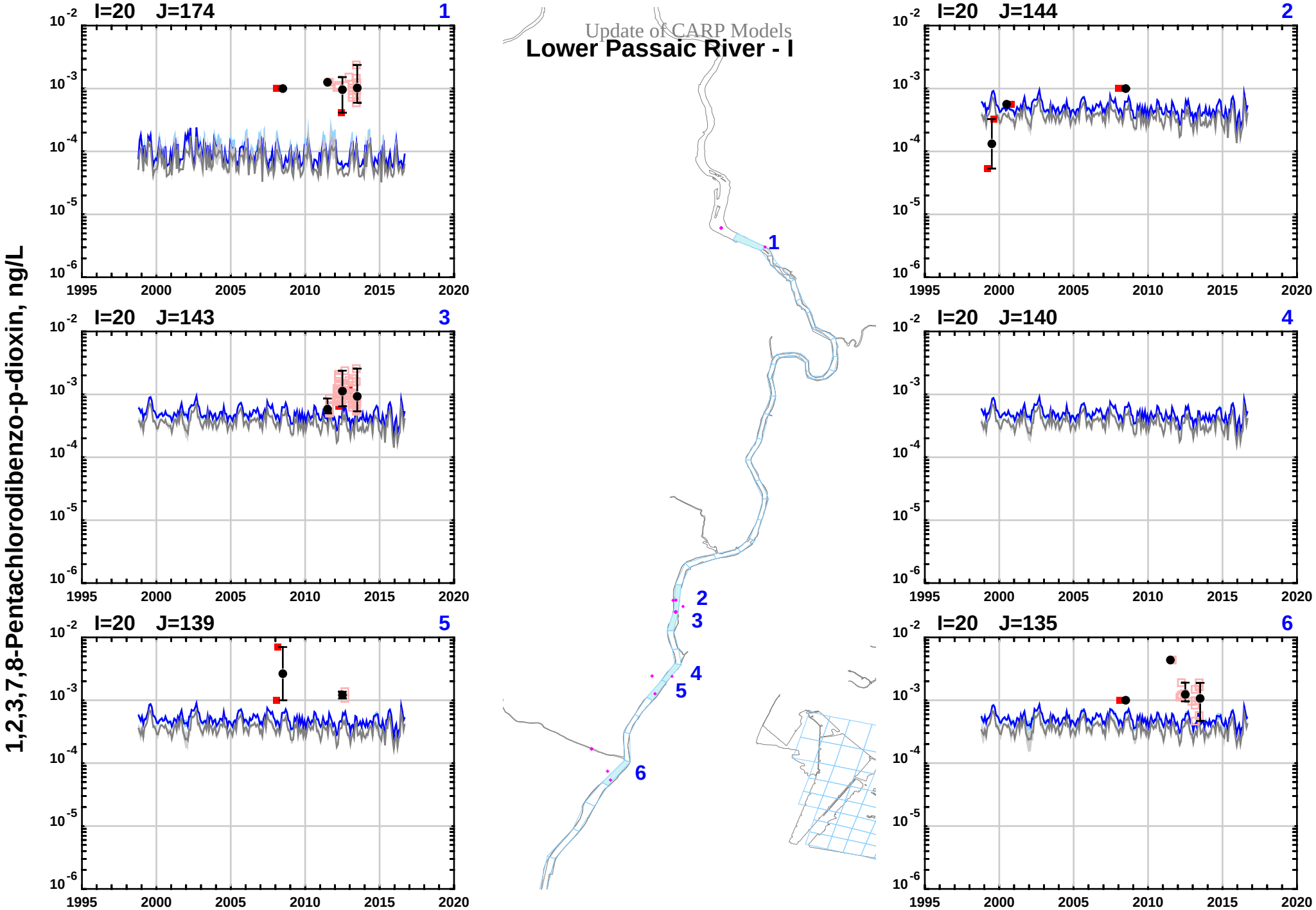
Model: mean and range of values in Water Column

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_S4_R2



Detect Data Non-Detect Data

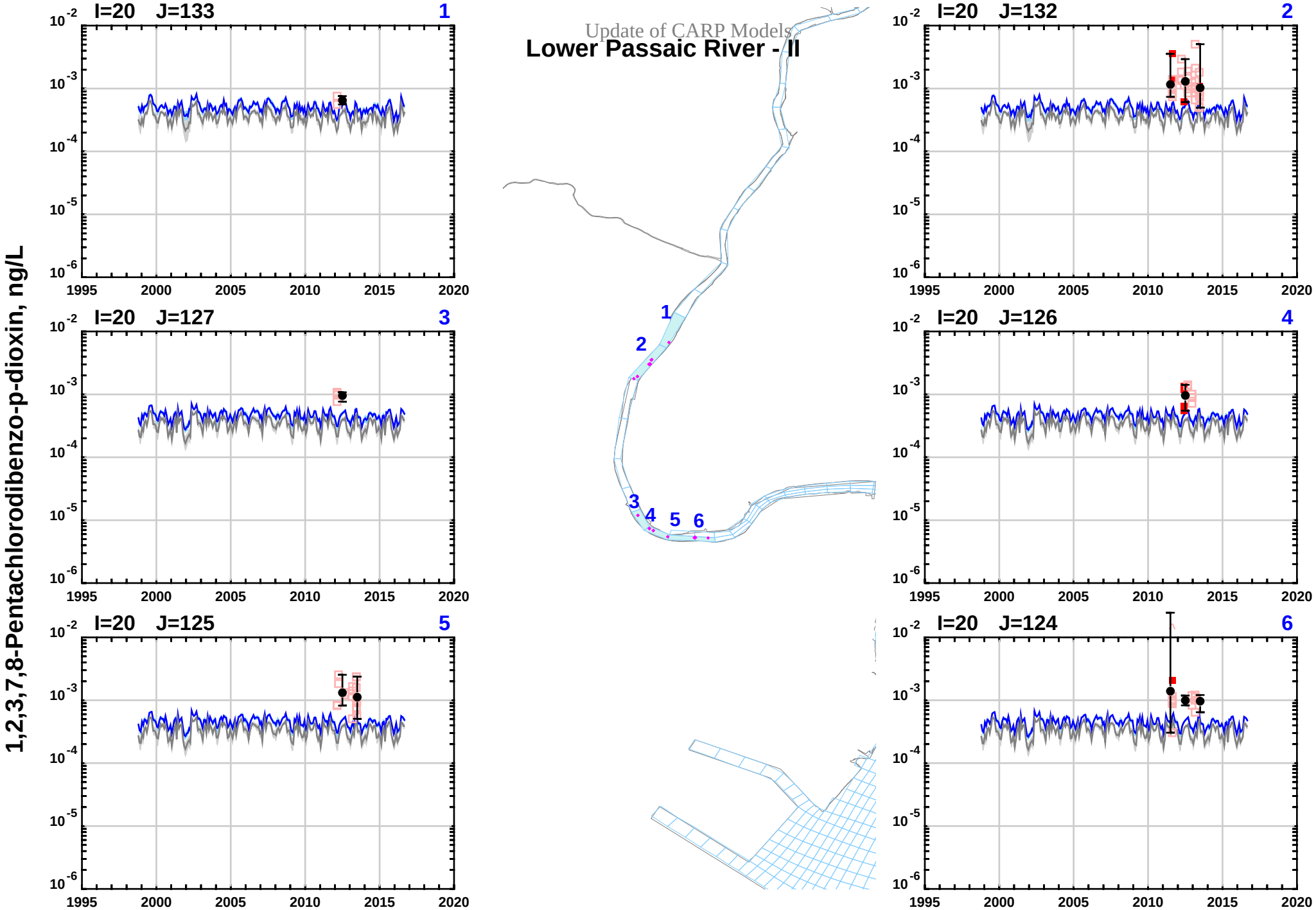
Model: mean and range of values in Water Column

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_S4_R2



Detect Data Non-Detect Data

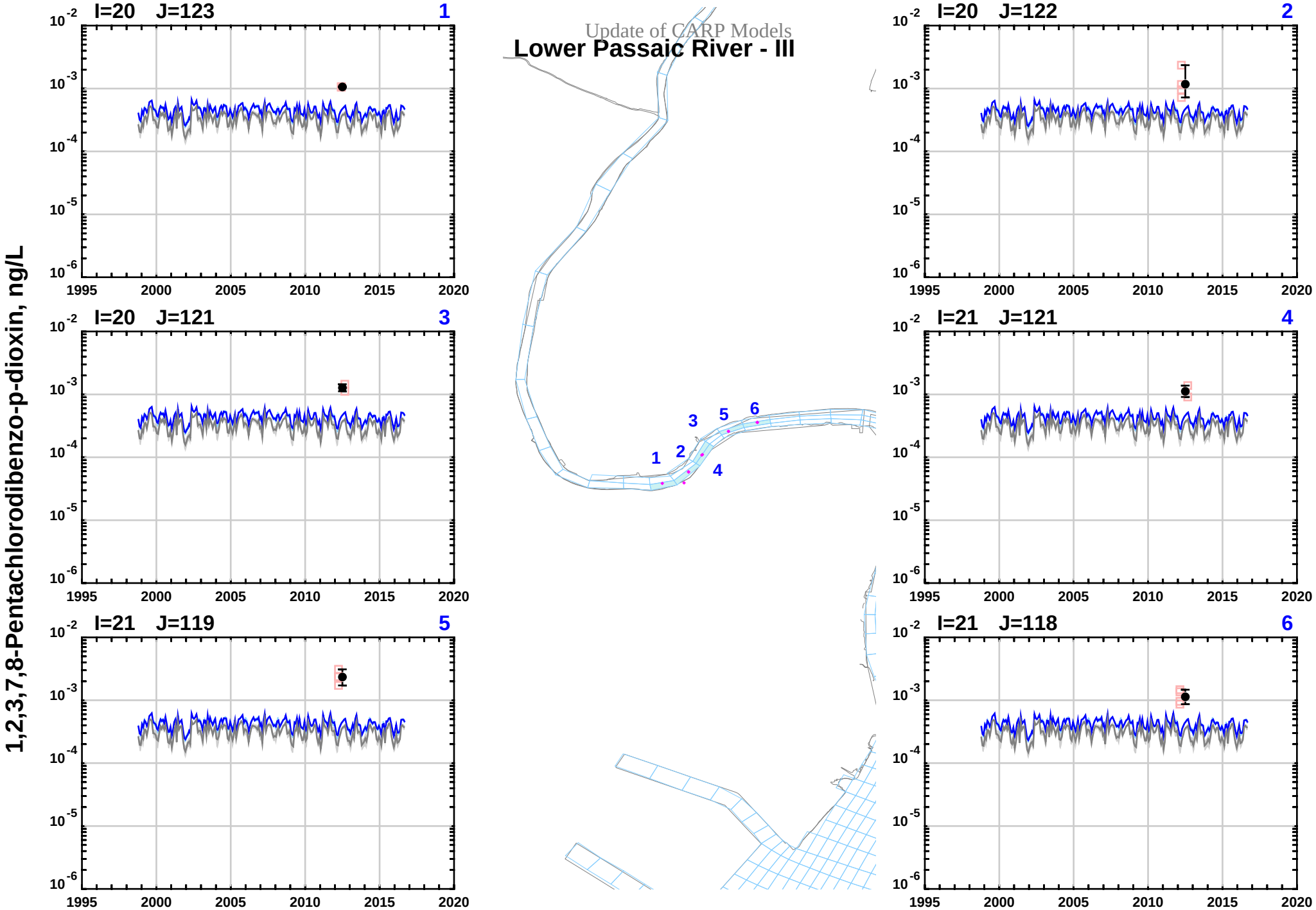
Model: mean and range of values in Water Column

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_S4_R2



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

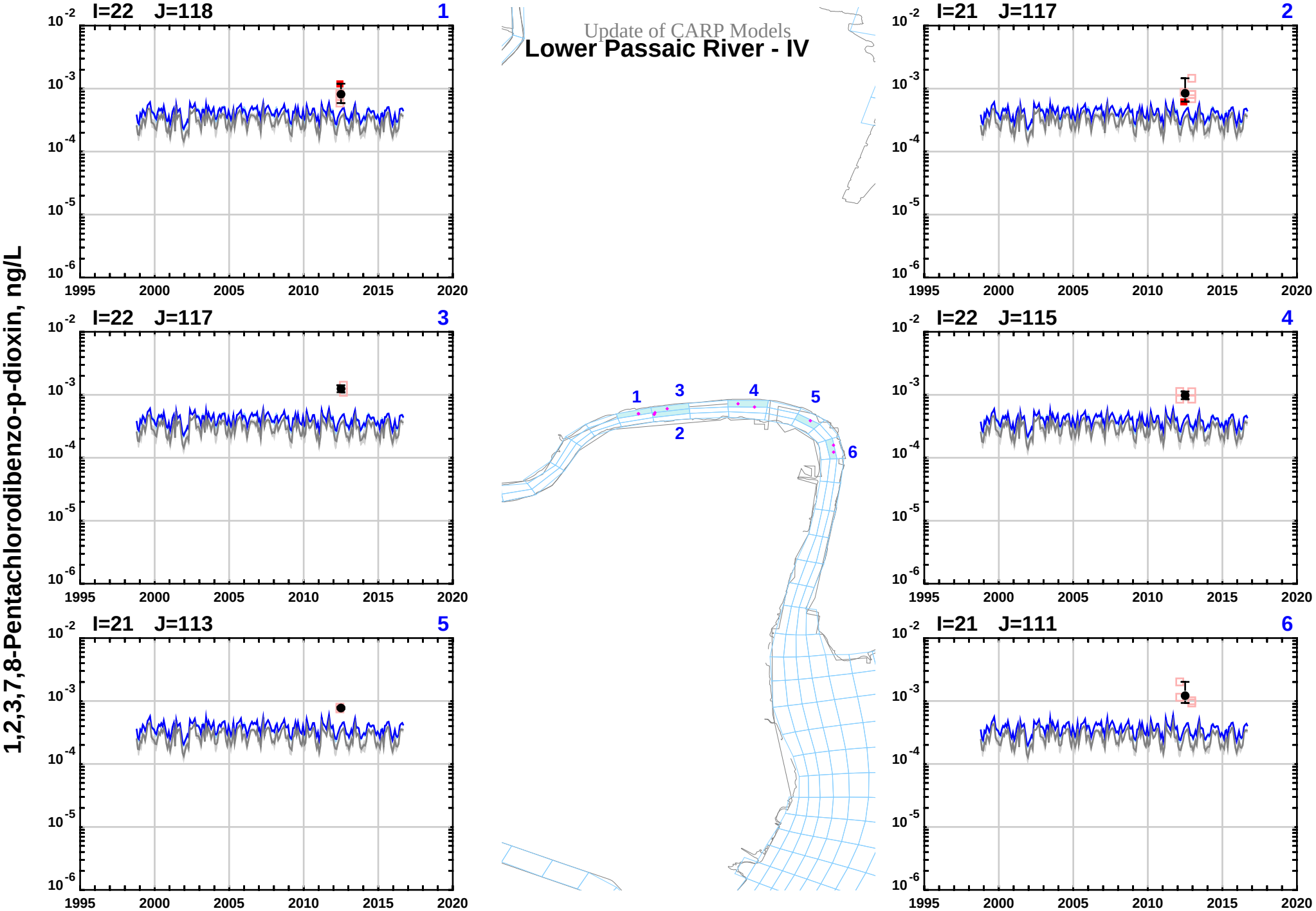
● Water Column Data: yearly mean and range

● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2

Update of CARP Models

Lower Passaic River - IV



Detect Data Non-Detect Data

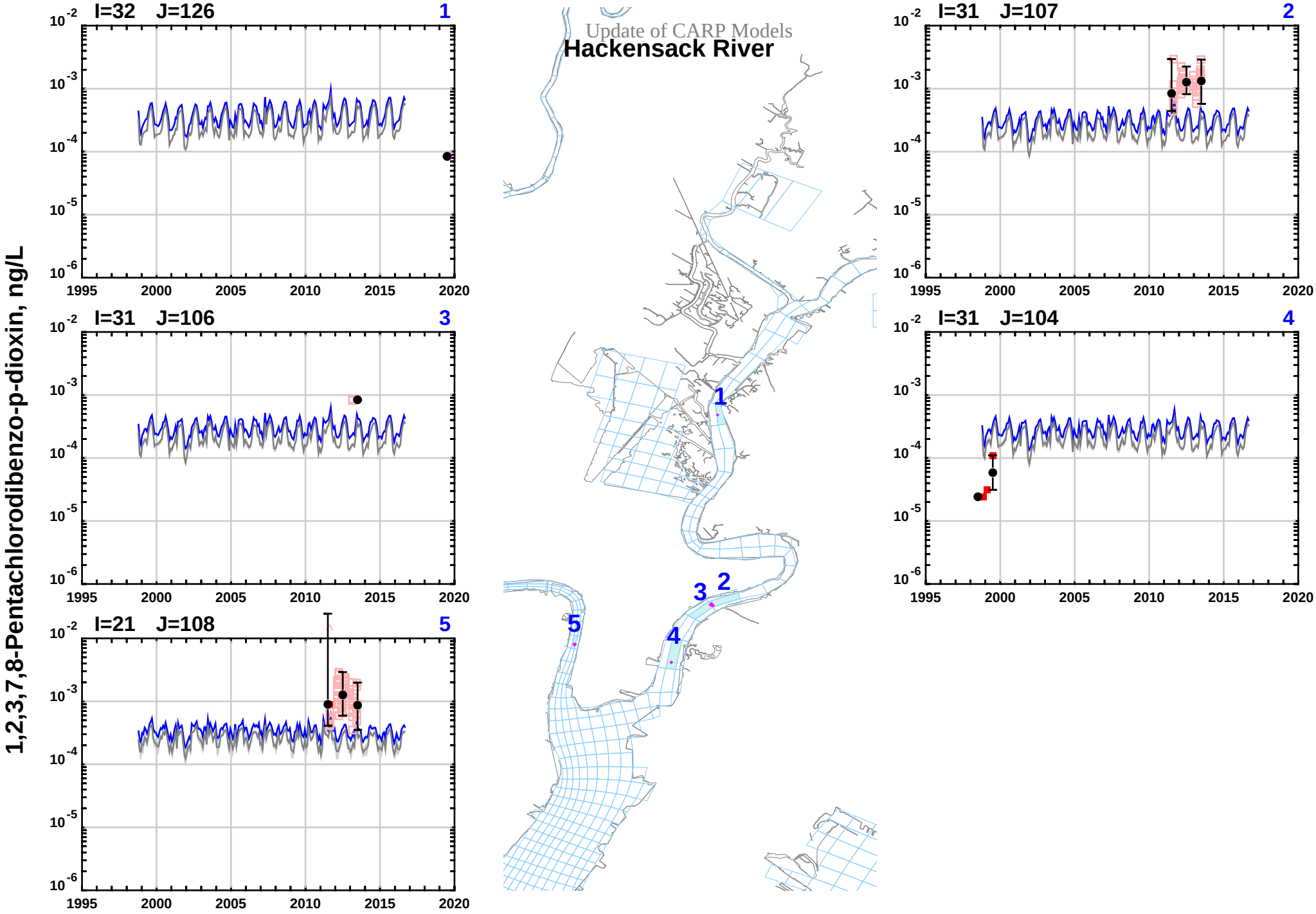
Model: mean and range of values in Water Column

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_S4_R2



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

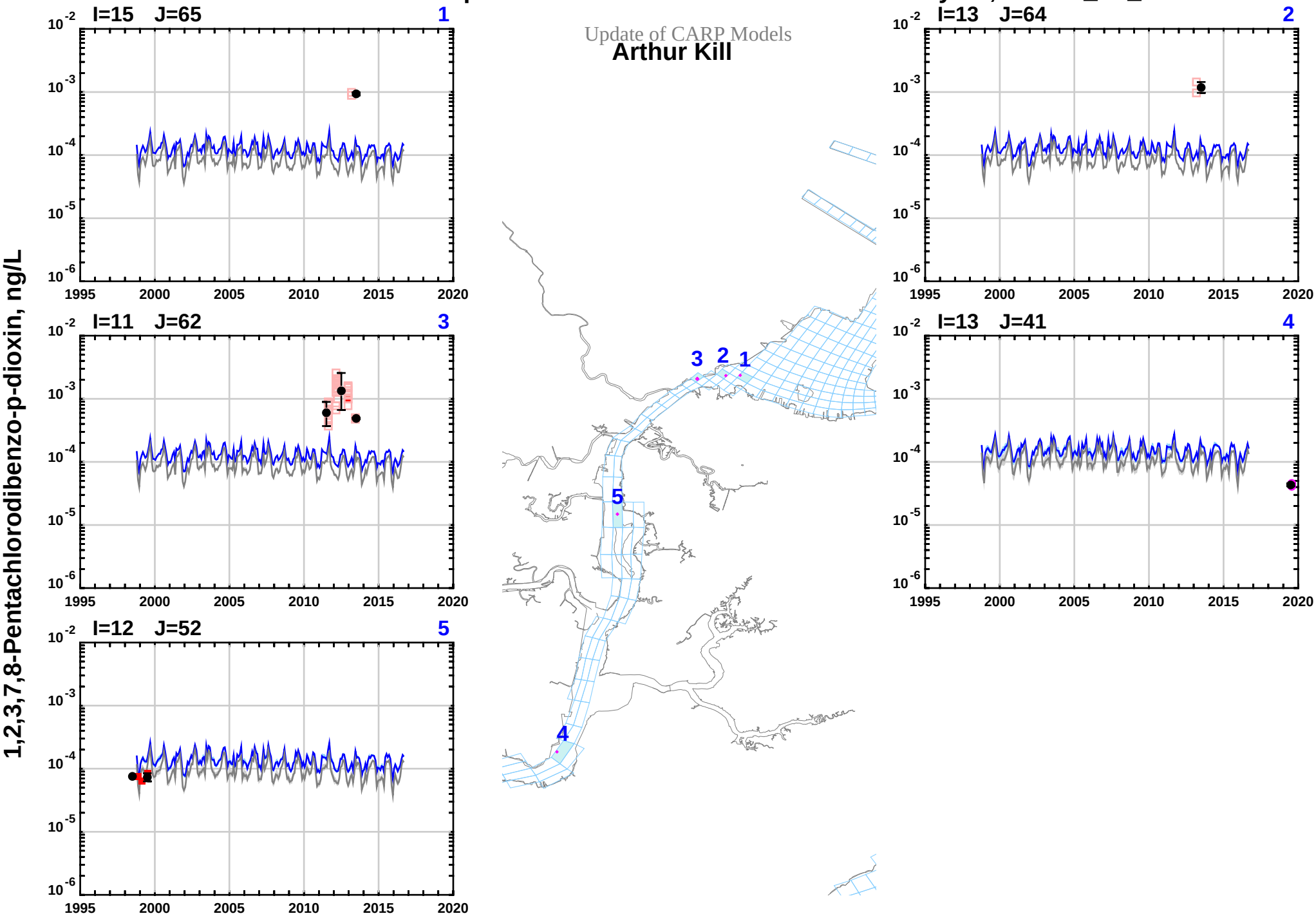
● Water Column Data: yearly mean and range

● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2

Update of CARP Models

Arthur Kill



Detect Data Non-Detect Data

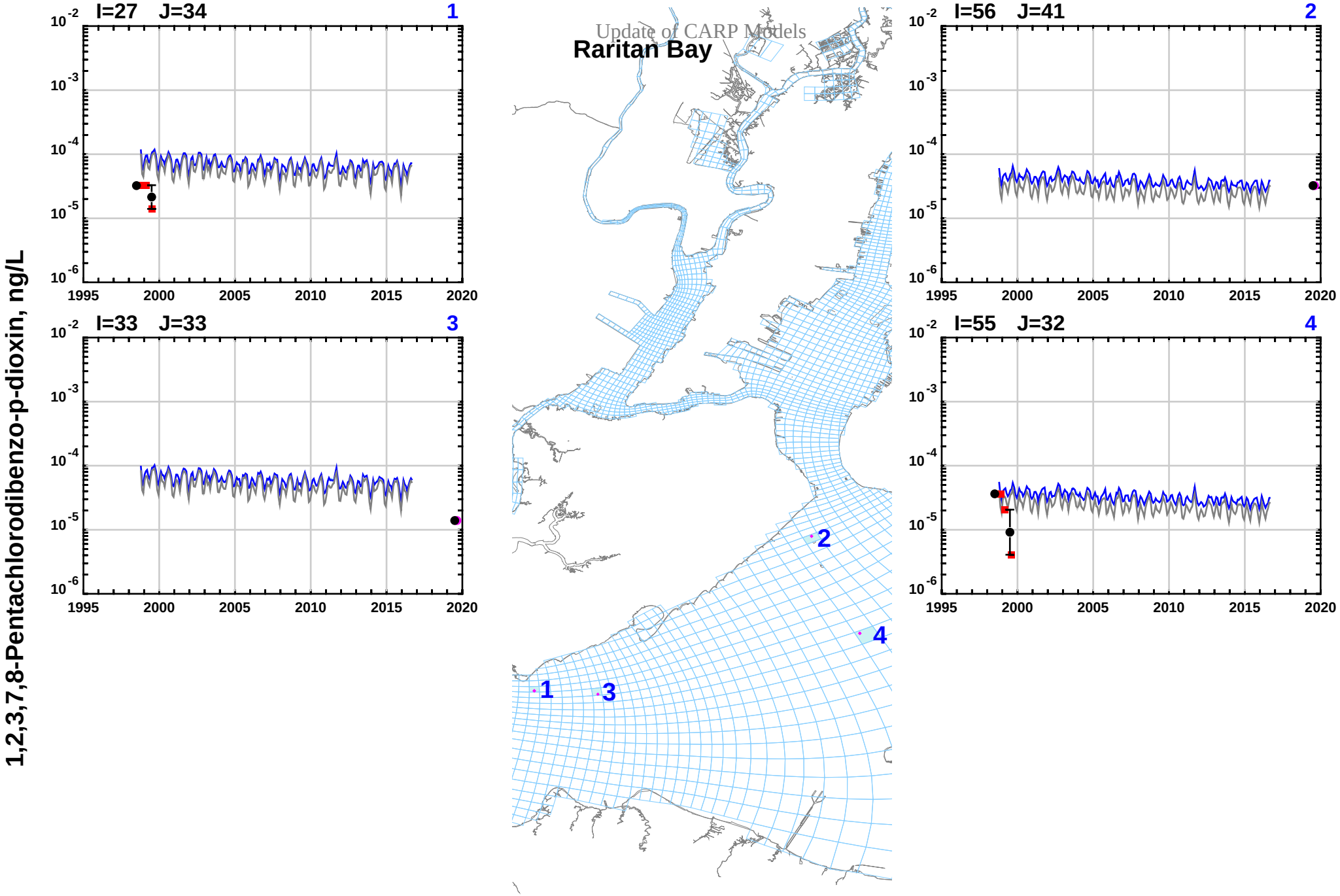
Model: mean and range of values in Water Column

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_S4_R2



Detect Data Non-Detect Data

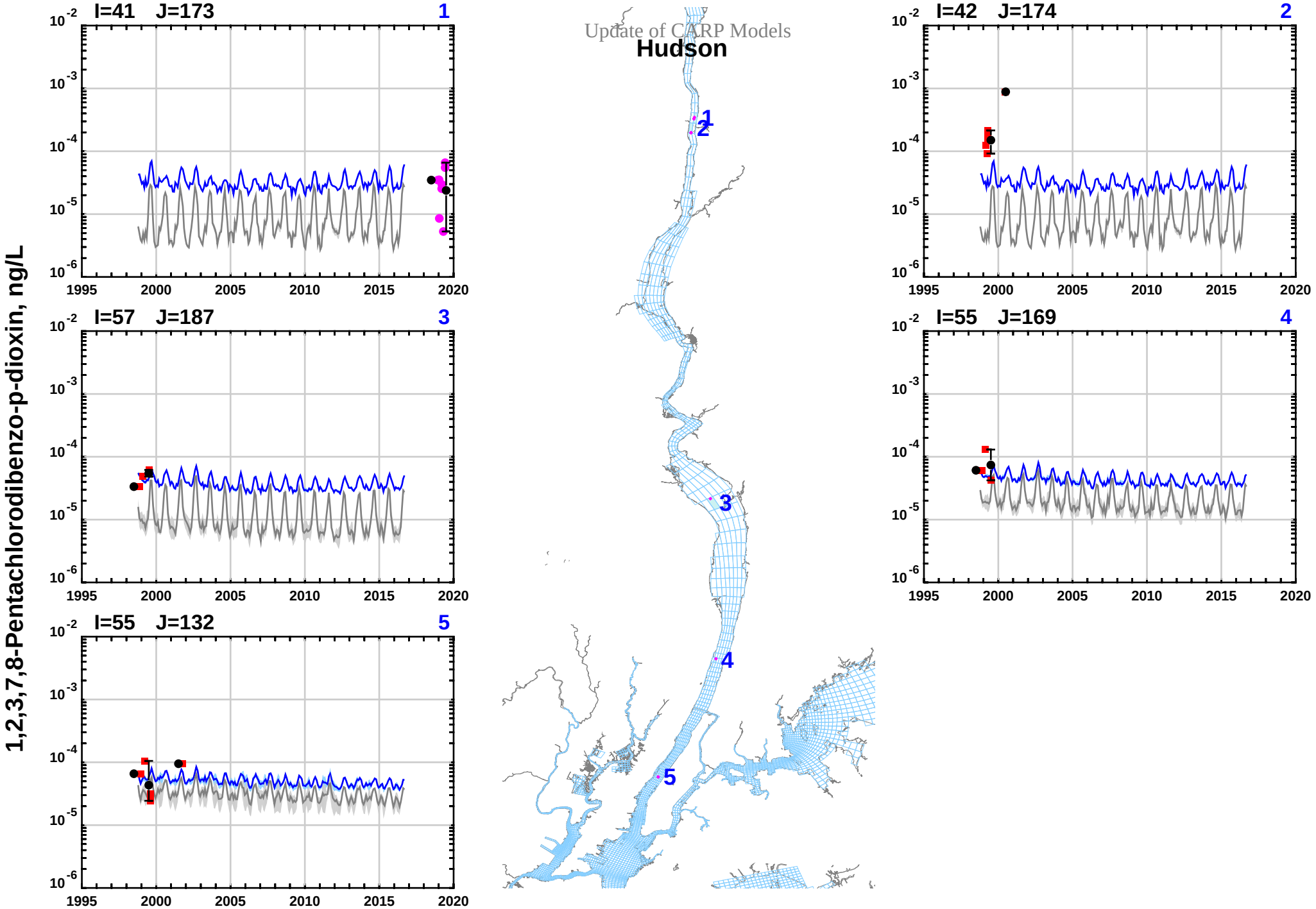
Model: mean and range of values in Water Column

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_S4_R2



Detect Data Non-Detect Data

Model: mean and range of values in Water Column

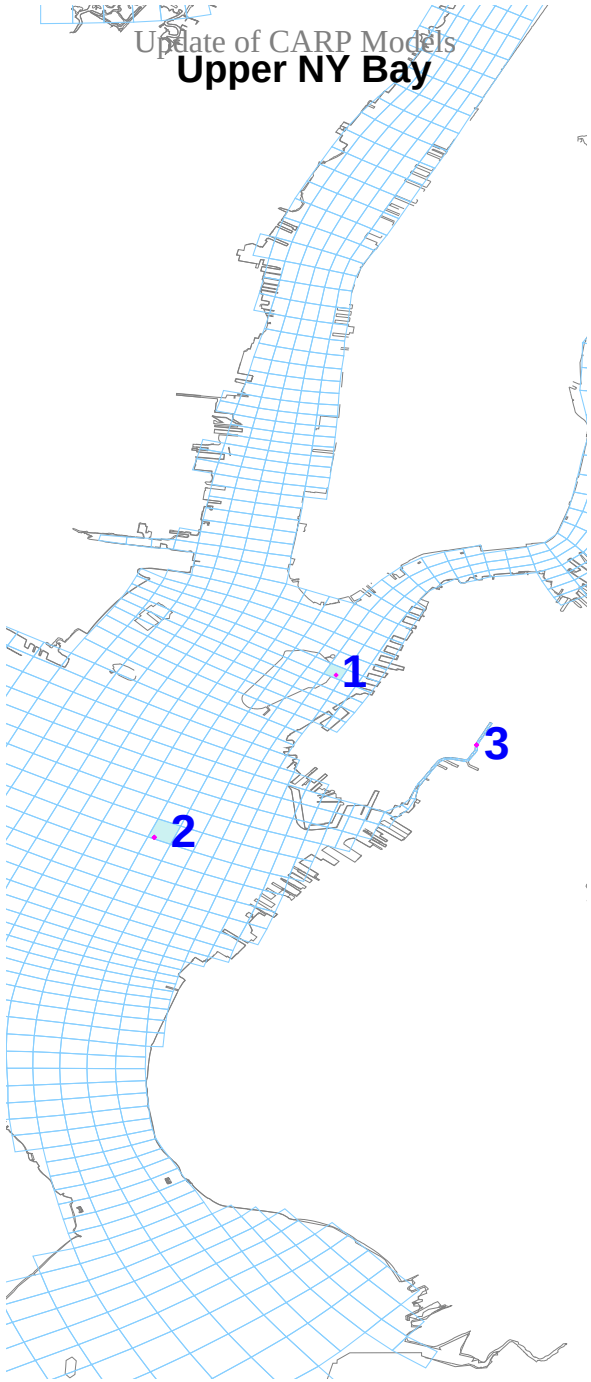
Model: Particulate Phase mean and range of values in Water Column

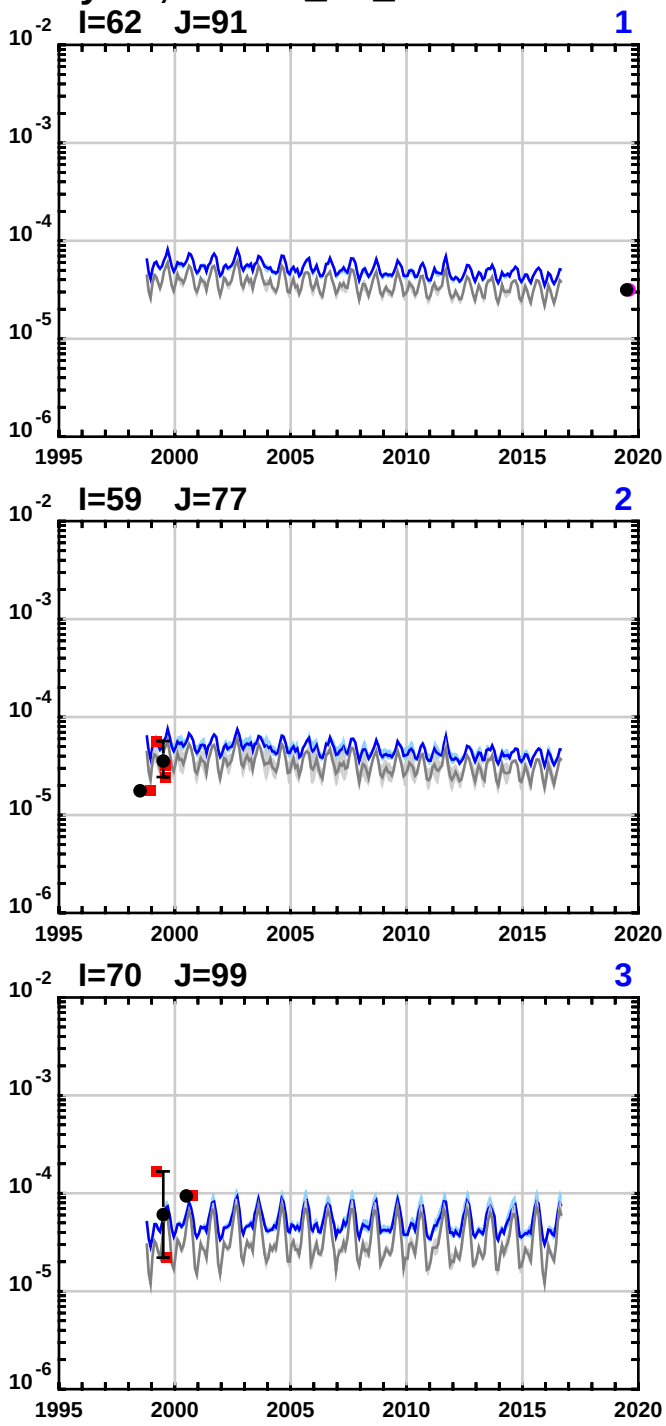
● Water Column Data: yearly mean and range

● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2

1,2,3,7,8-Pentachlorodibenzo-p-dioxin, ng/L





Detect Data Non-Detect Data

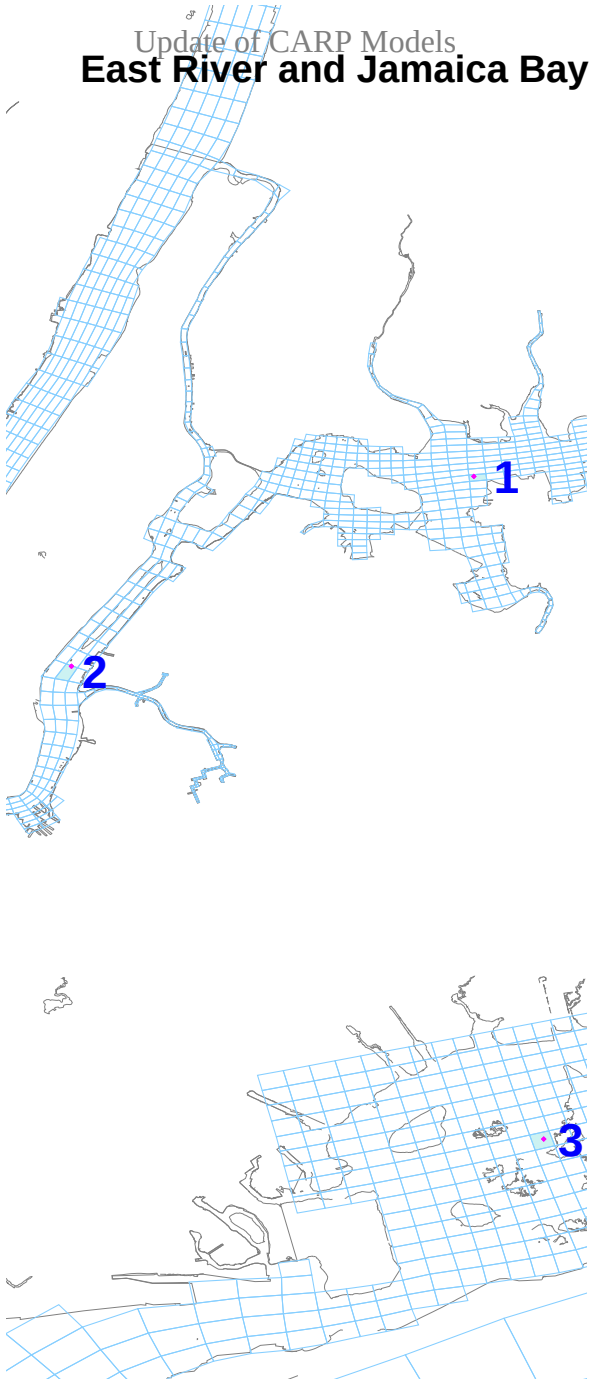
Model: mean and range of values in Water Column

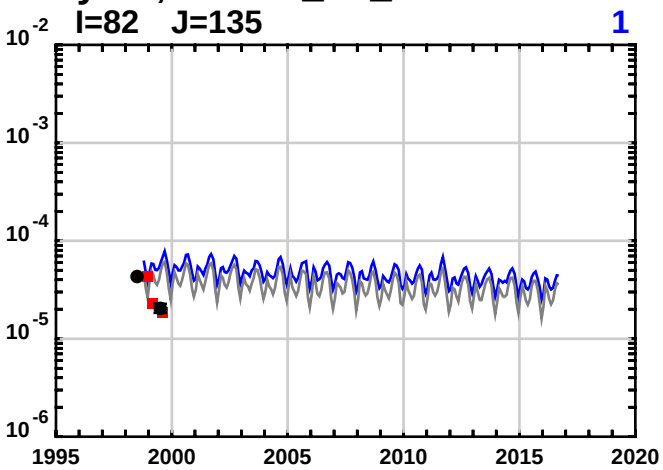
Model: Particulate Phase mean and range of values in Water Column

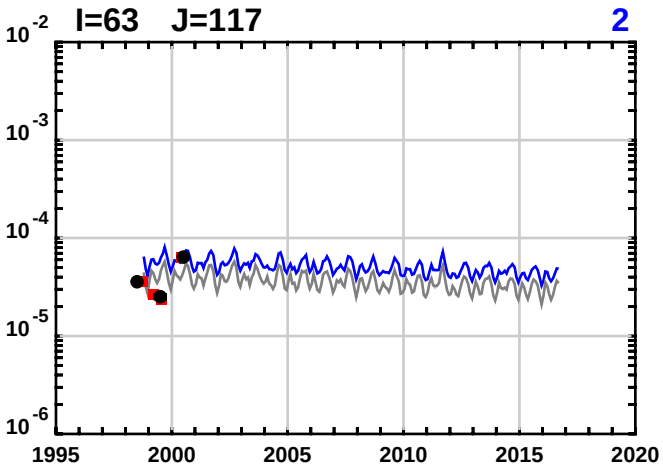
Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2

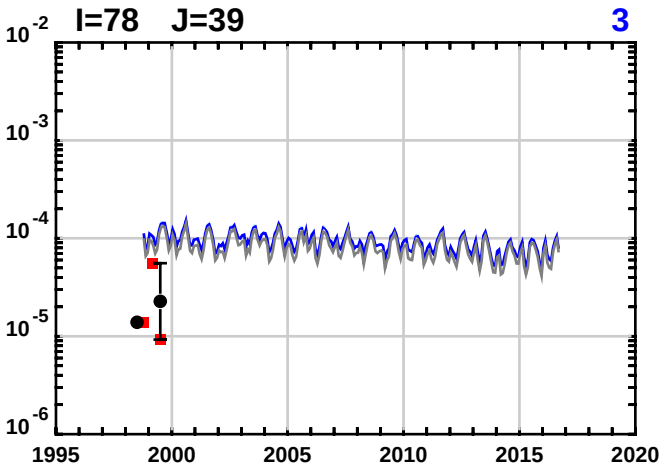
Update of CARP Models

East River and Jamaica Bay









1,2,3,7,8-Pentachlorodibenzo-p-dioxin, ng/L

Detect Data Non-Detect Data

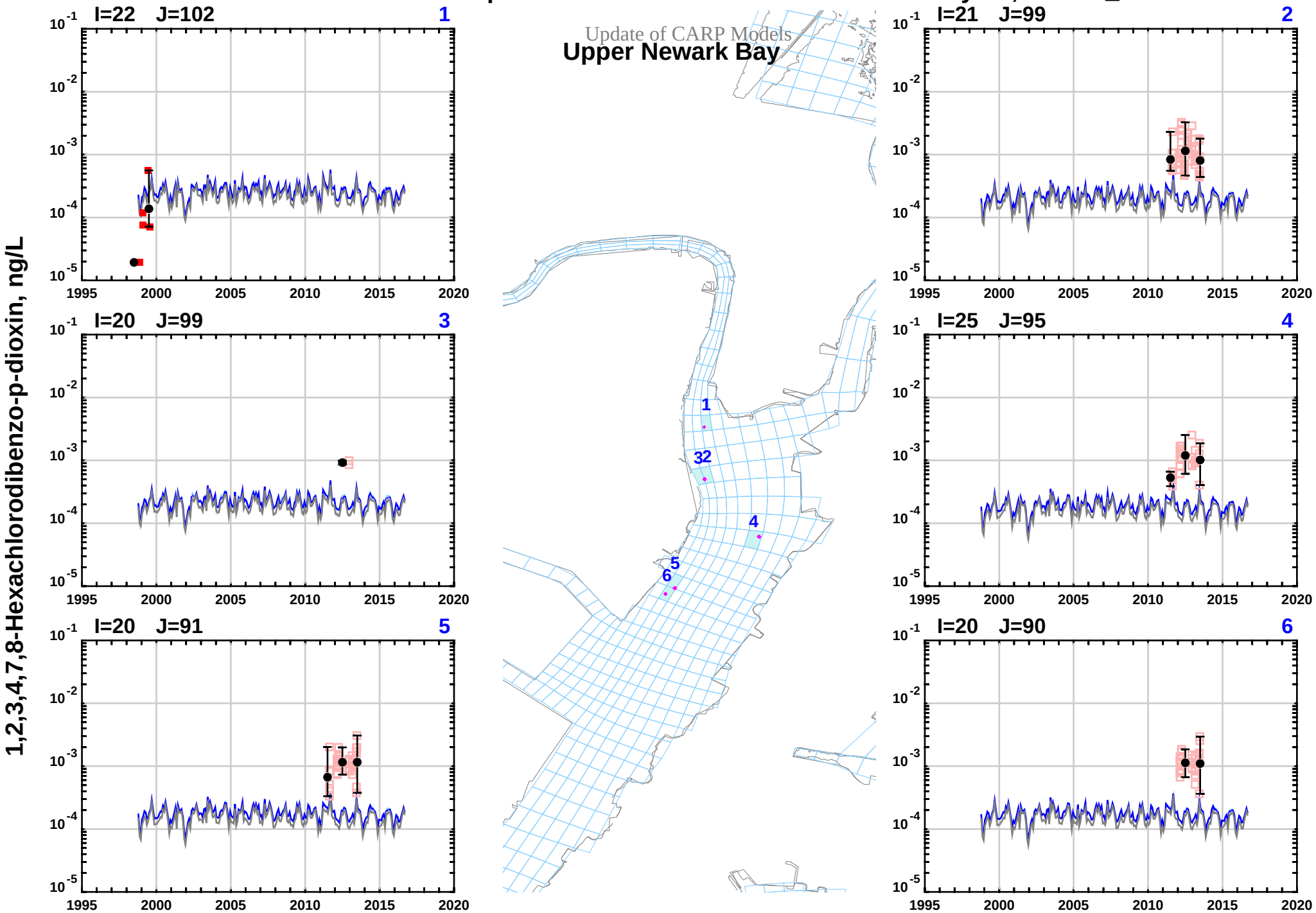
Model: mean and range of values in Water Column

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

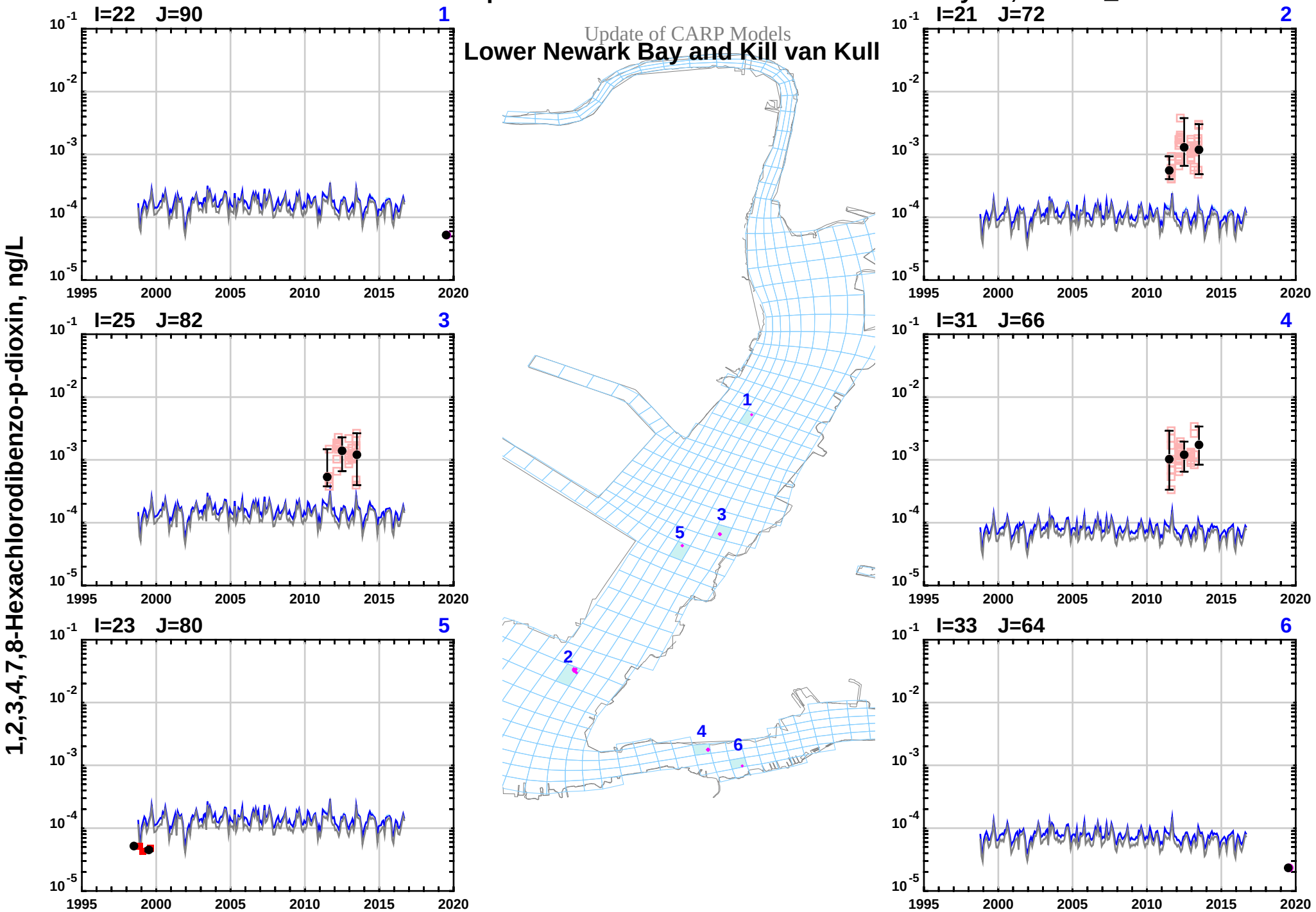
● Water Column Data: yearly mean and range

● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_S3



Water Column Data Comparison With Model All Water Column Layers, RUN18_S3



Detect Data Non-Detect Data

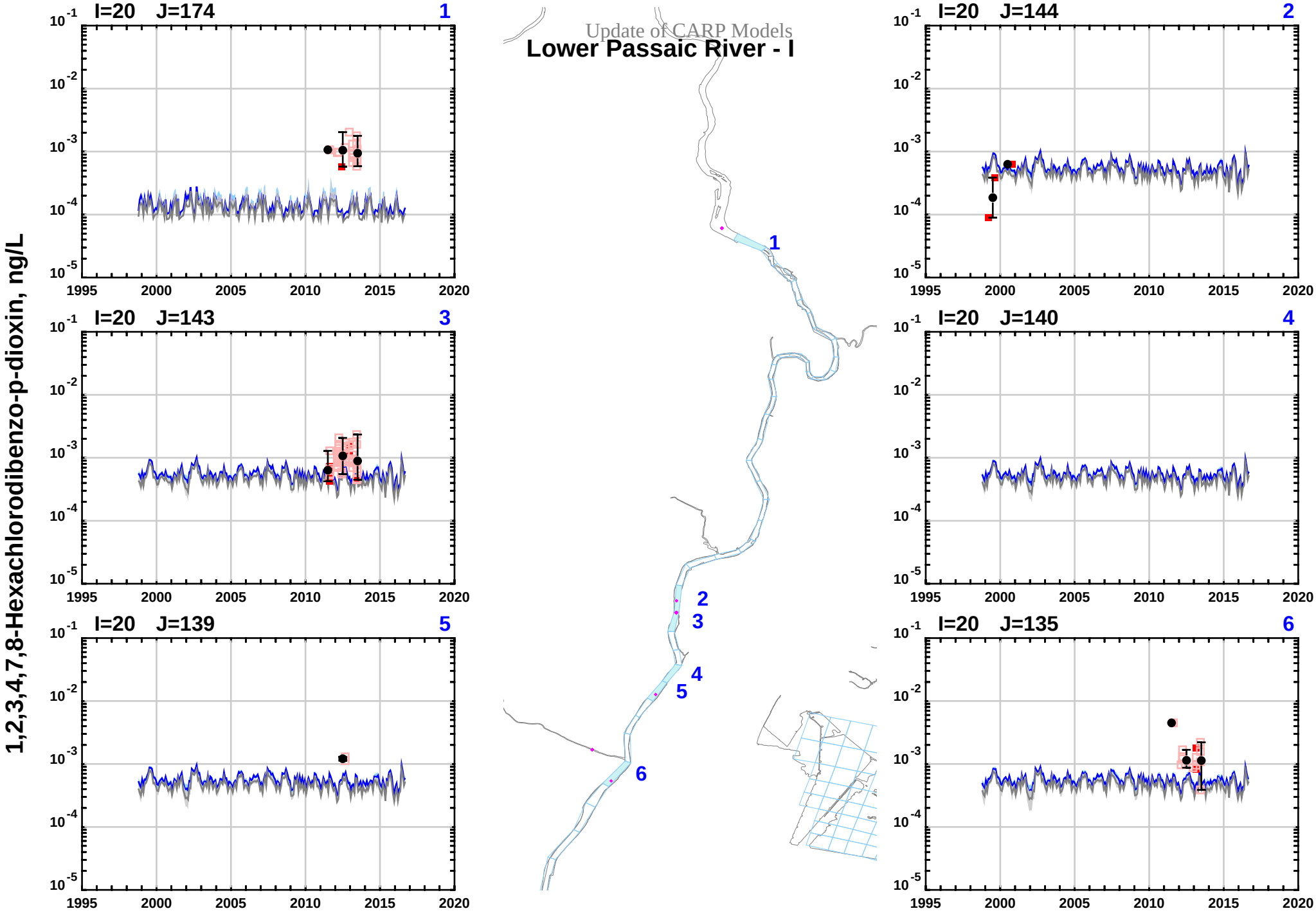
Model: mean and range of values in Water Column

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_S3



Detect Data Non-Detect Data

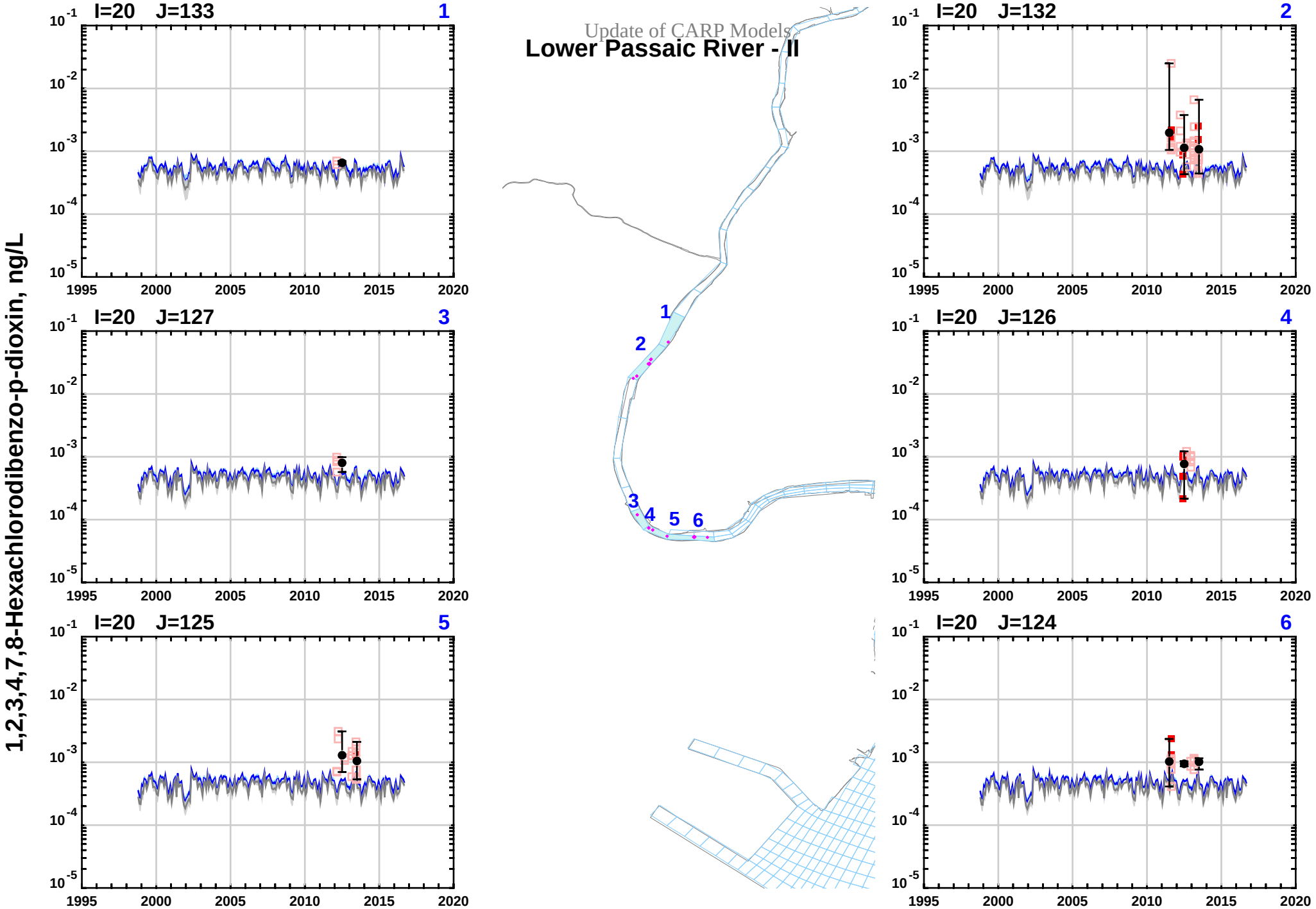
Model: mean and range of values in Water Column

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_S3



Detect Data Non-Detect Data

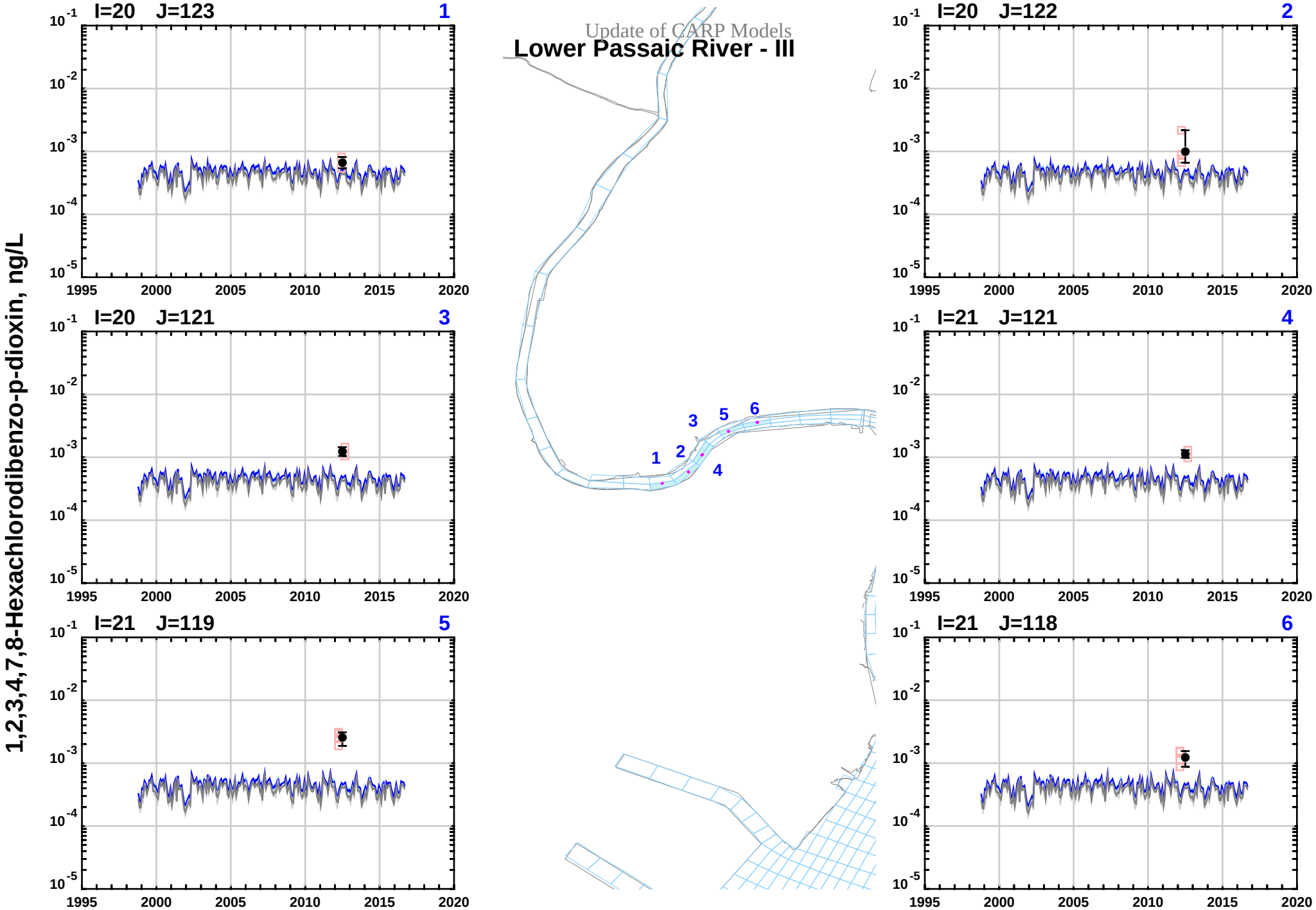
Model: mean and range of values in Water Column

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_S3



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

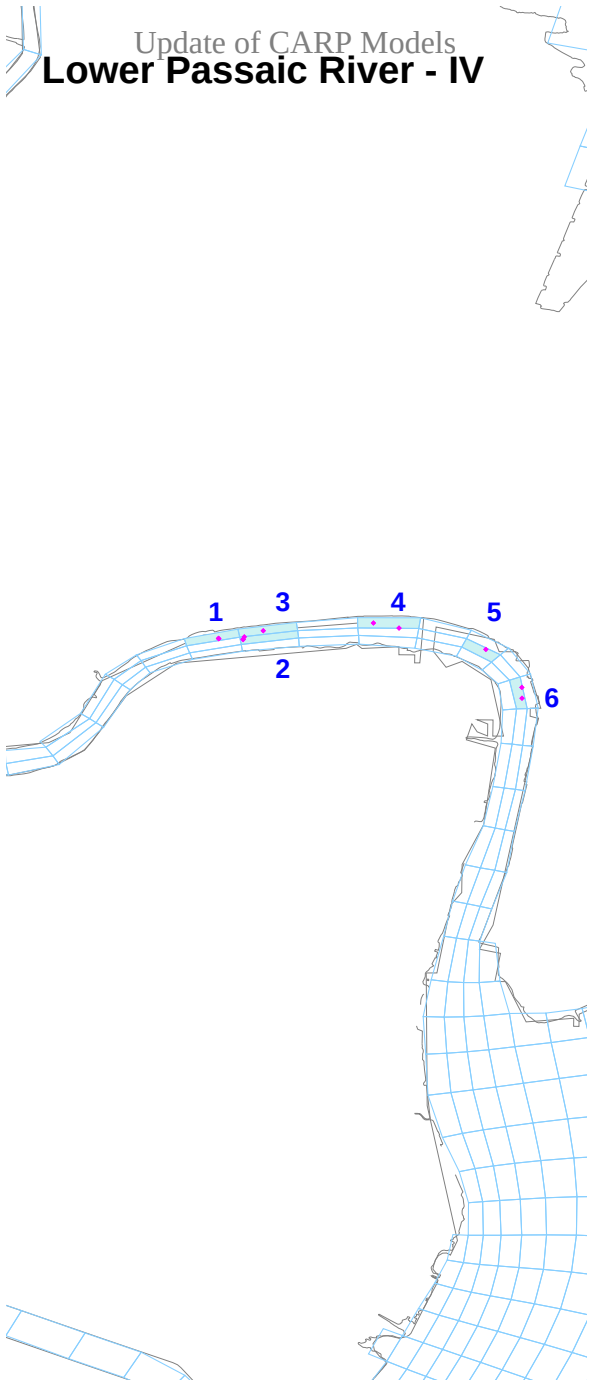
● Water Column Data: yearly mean and range

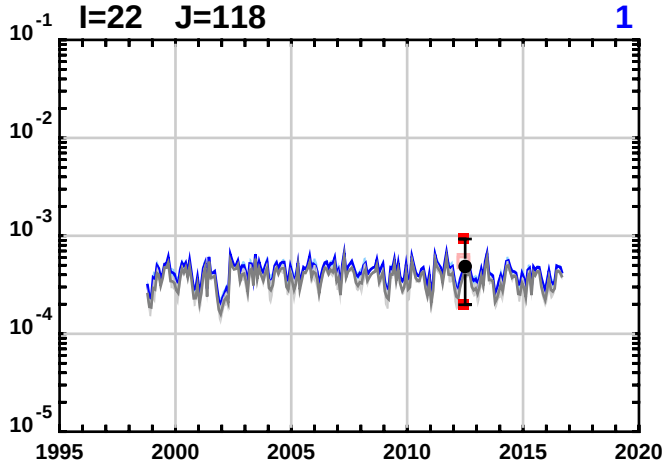
● CARP2 Data

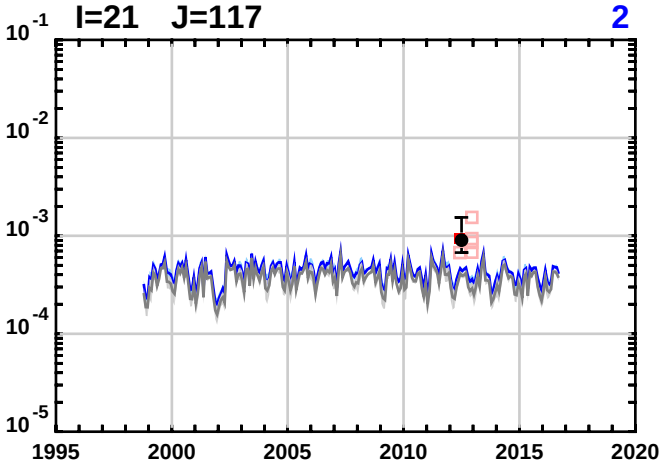
Water Column Data Comparison With Model All Water Column Layers, RUN18_S3

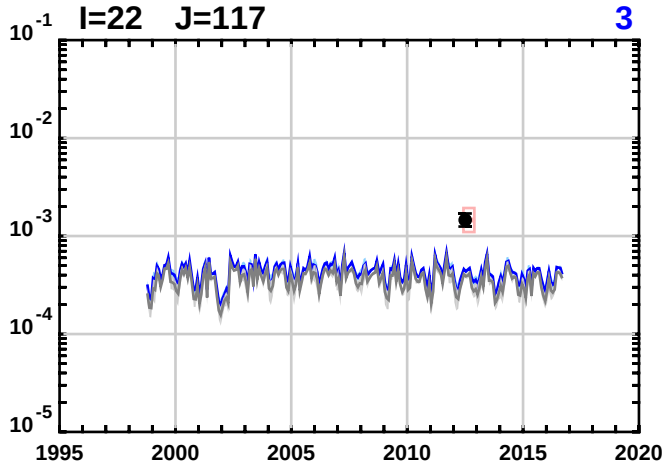
Update of CARP Models

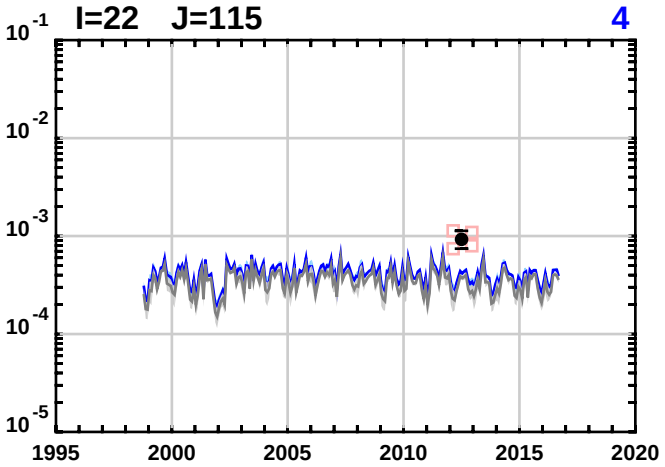
Lower Passaic River - IV

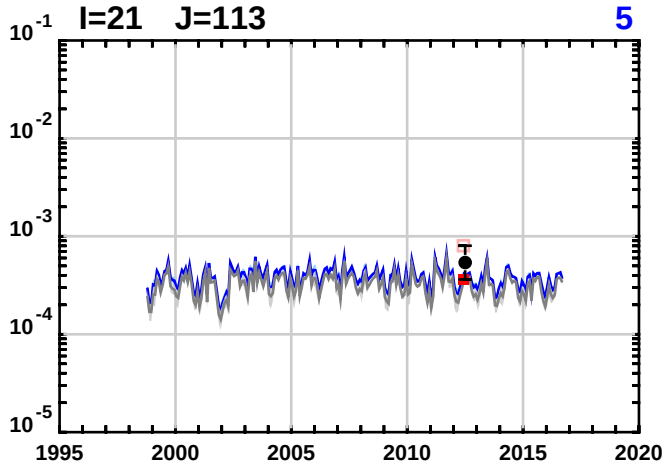


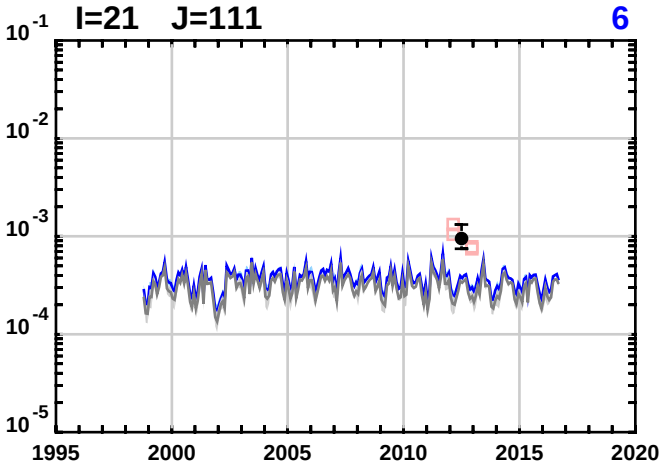












1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin, ng/L

Detect Data Non-Detect Data

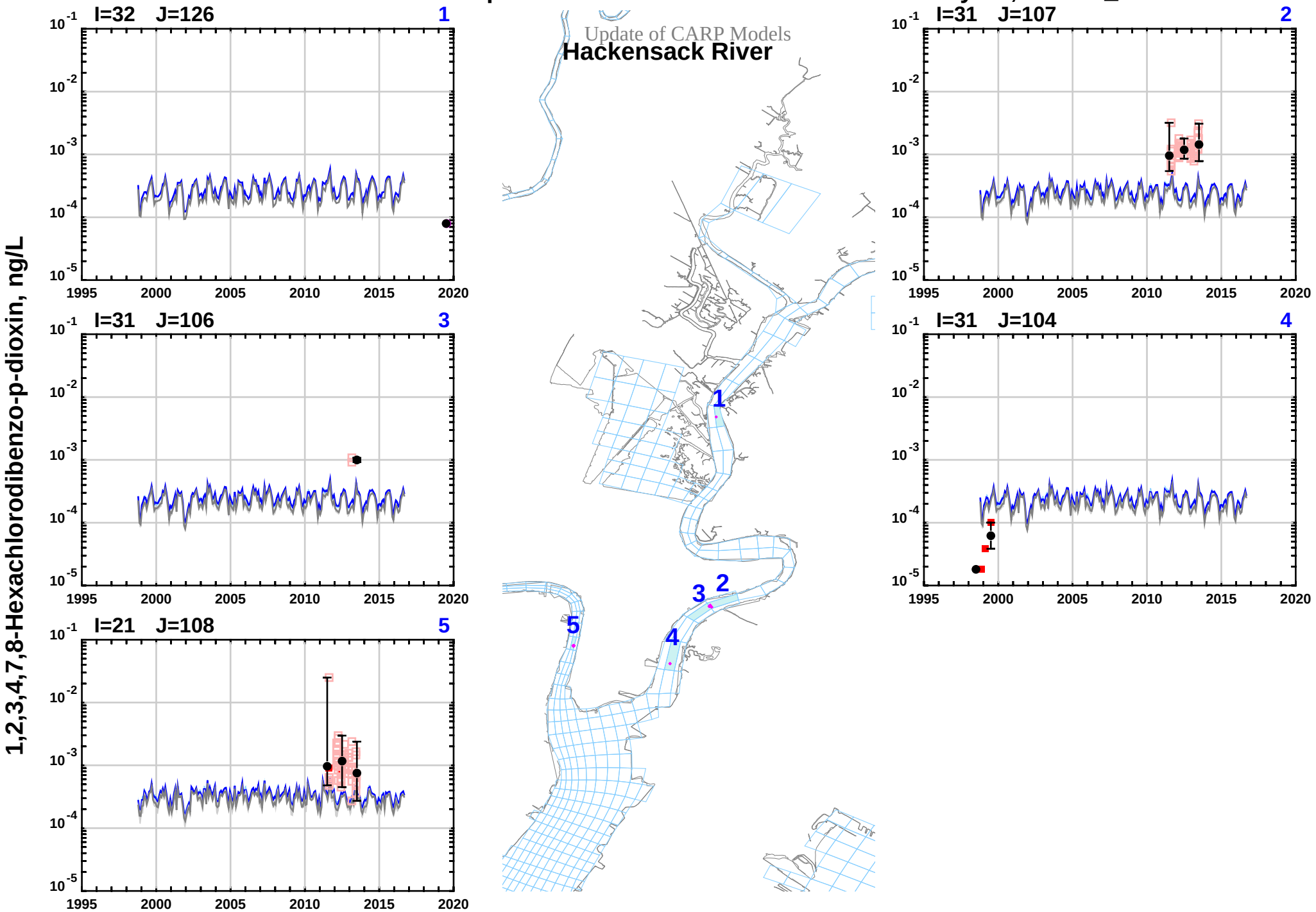
Model: mean and range of values in Water Column

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_S3



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

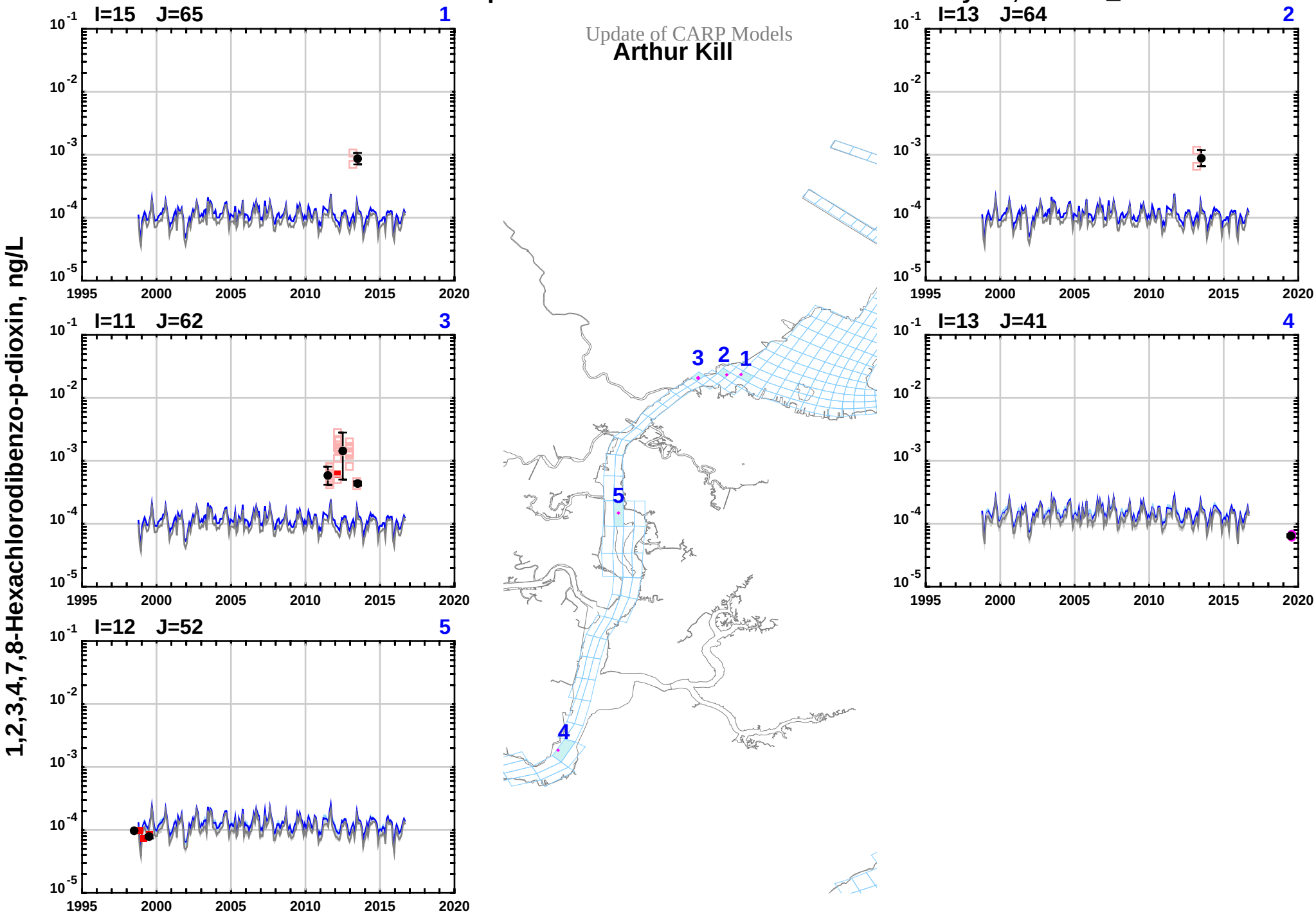
● Water Column Data: yearly mean and range

● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_S3

Update of CARP Models

Arthur Kill



Detect Data Non-Detect Data

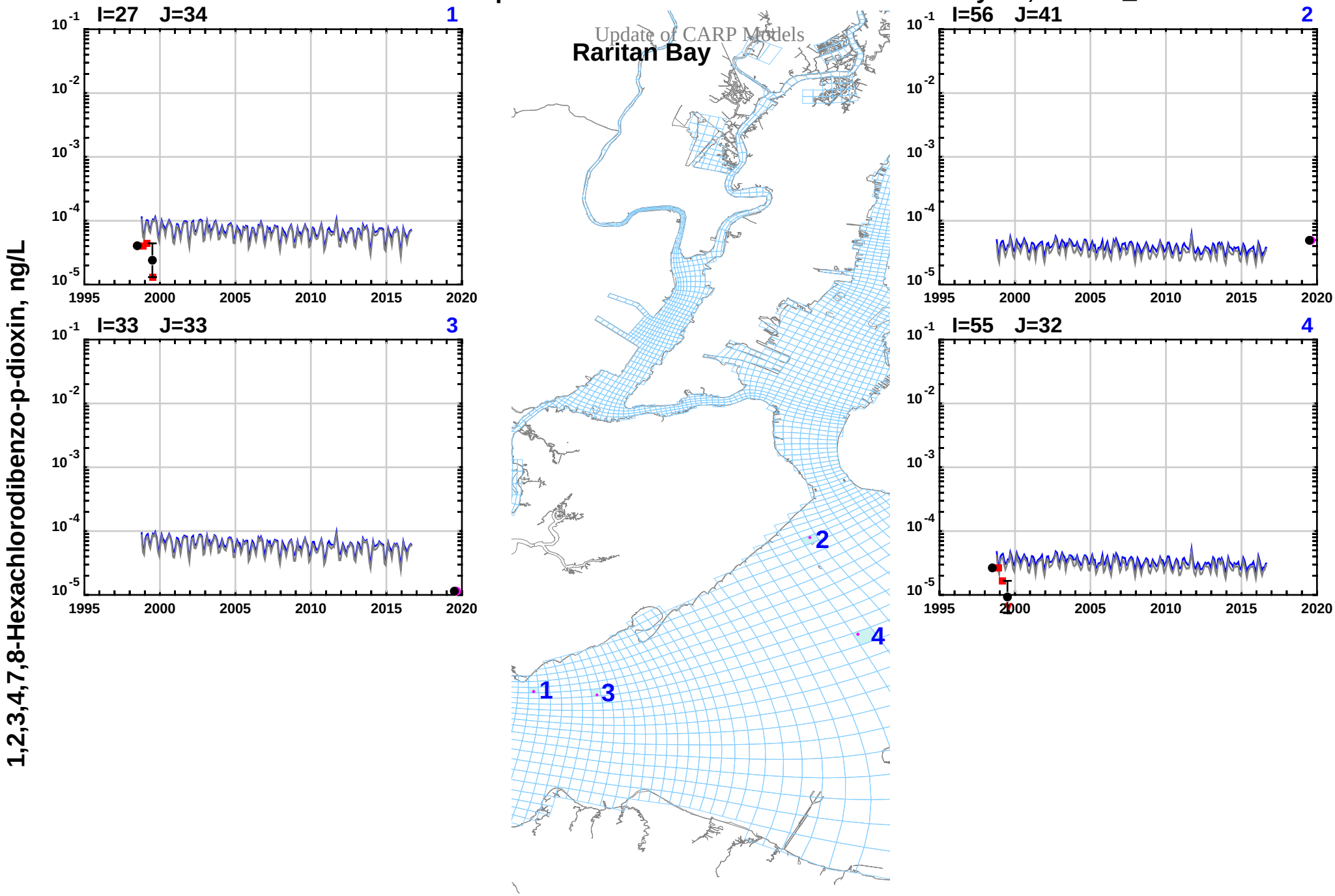
Model: mean and range of values in Water Column

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_S3



Detect Data Non-Detect Data

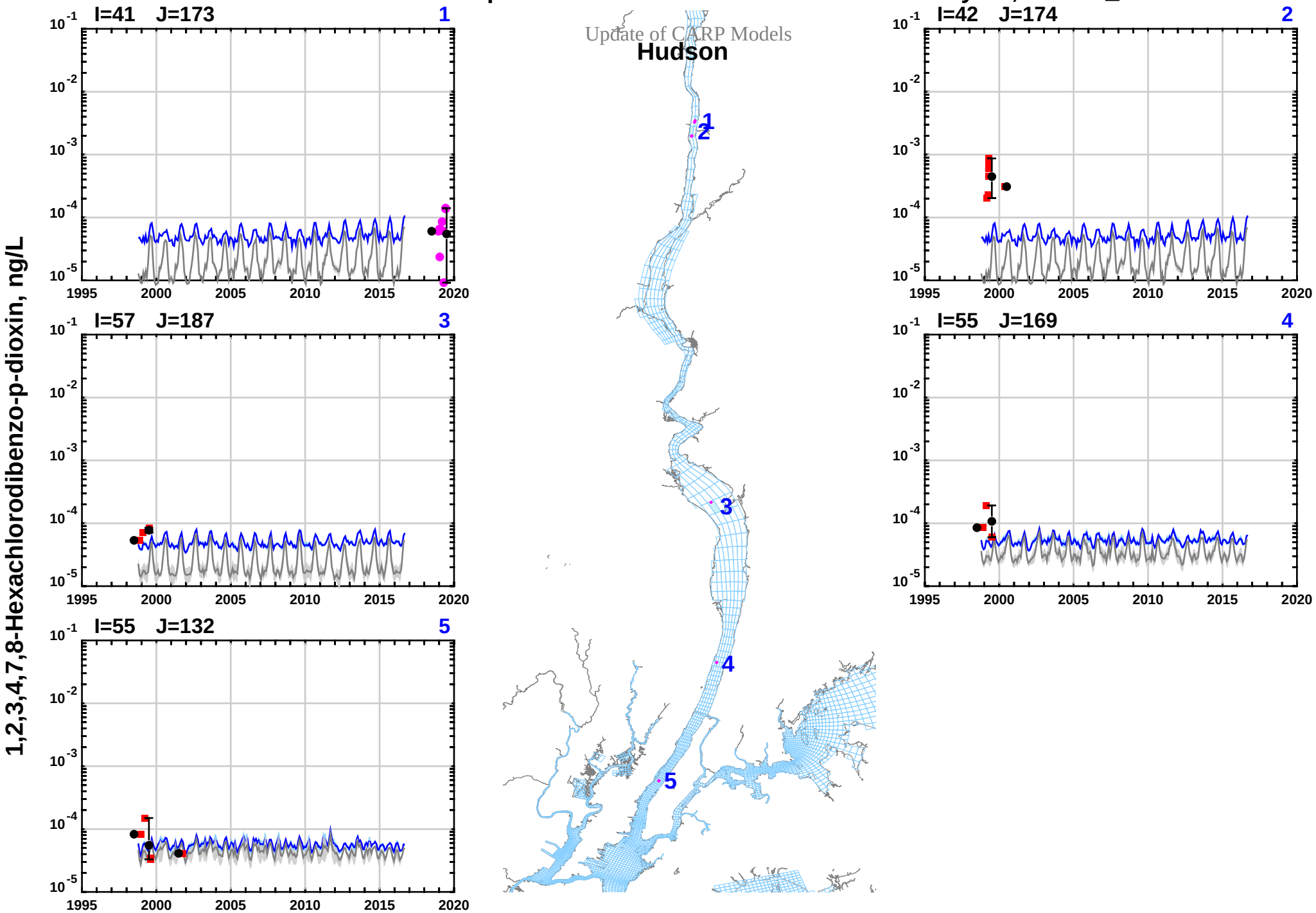
Model: mean and range of values in Water Column

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_S3



Detect Data Non-Detect Data

Model: mean and range of values in Water Column

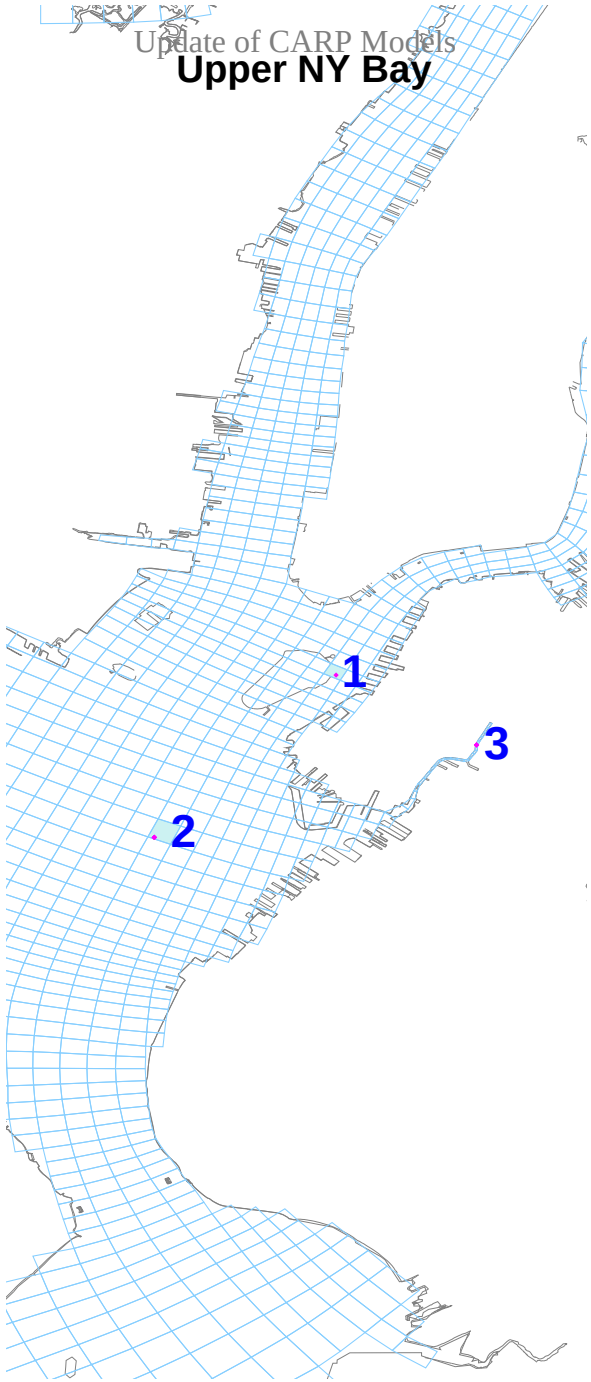
Model: Particulate Phase mean and range of values in Water Column

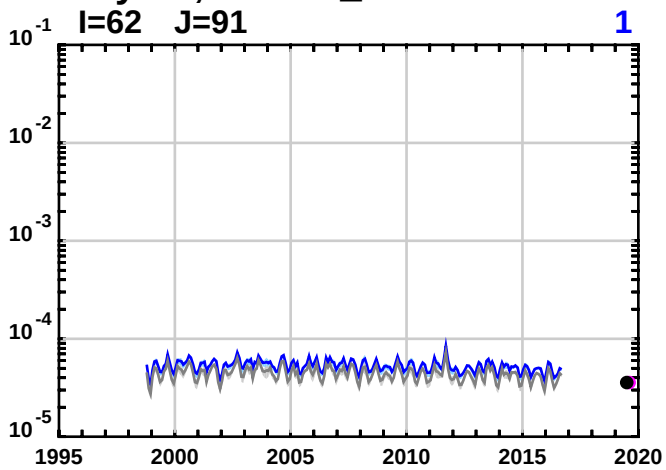
● Water Column Data: yearly mean and range

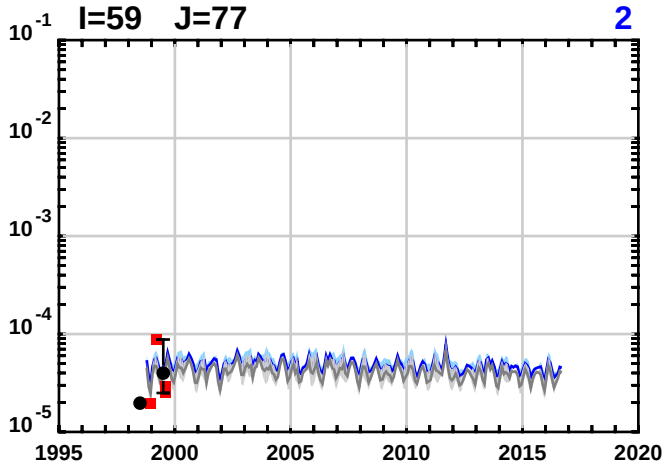
● CARP2 Data

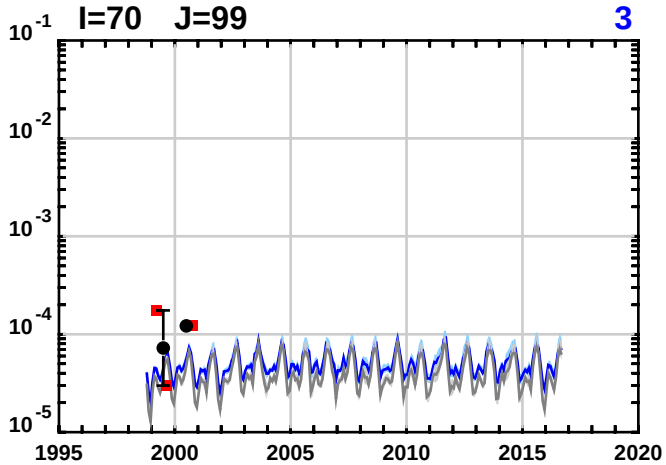
Water Column Data Comparison With Model All Water Column Layers, RUN18_S3

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin, ng/L









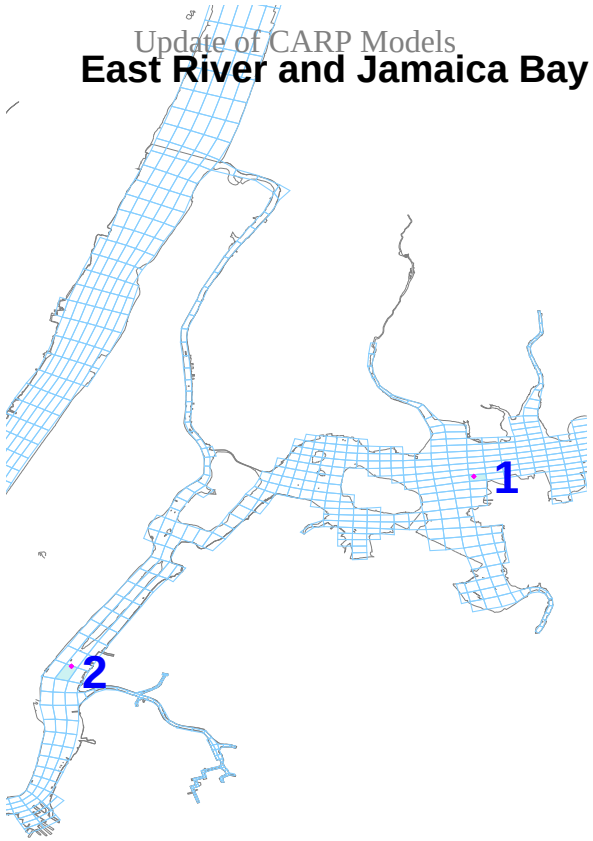
Detect Data Non-Detect Data
Model: mean and range of values in Water Column
Model: Particulate Phase mean and range of values in Water Column

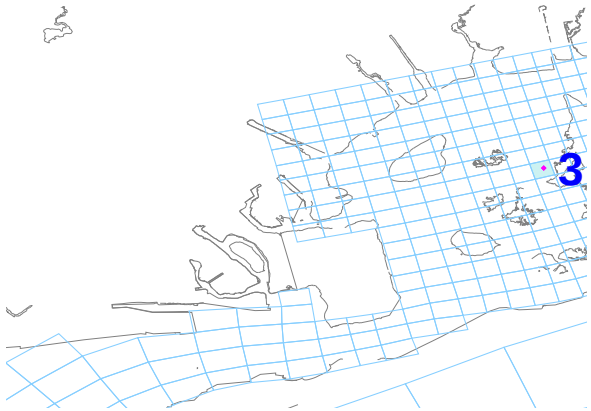
● Water Column Data: yearly mean and range
● CARP2 Data

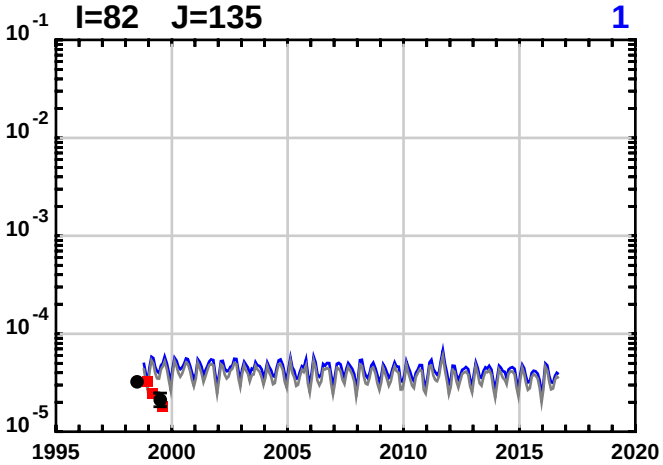
Water Column Data Comparison With Model All Water Column Layers, RUN18_S3

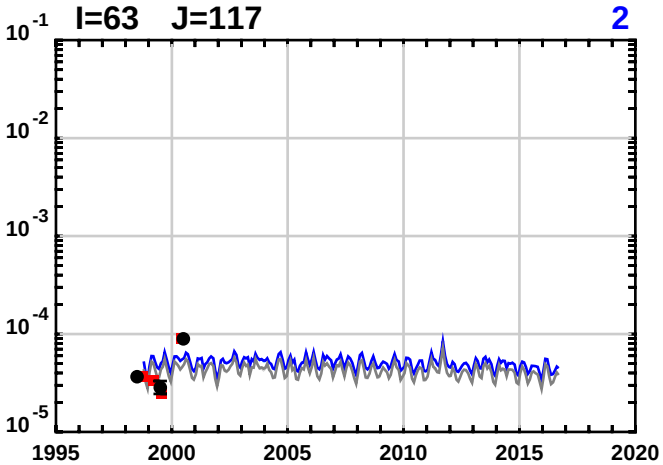
Update of CARP Models

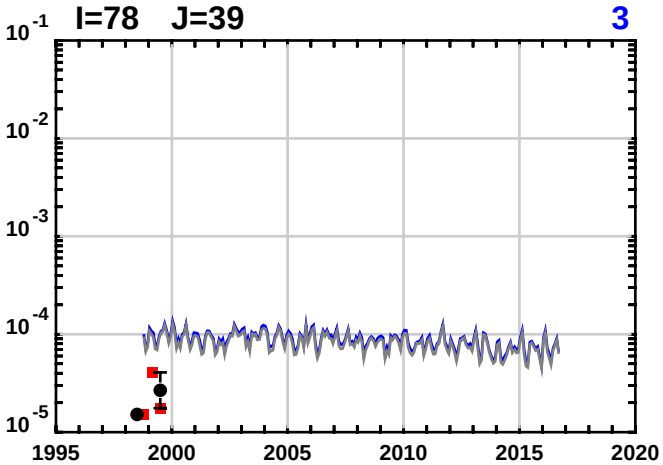
East River and Jamaica Bay











1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin, ng/L

Detect Data Non-Detect Data

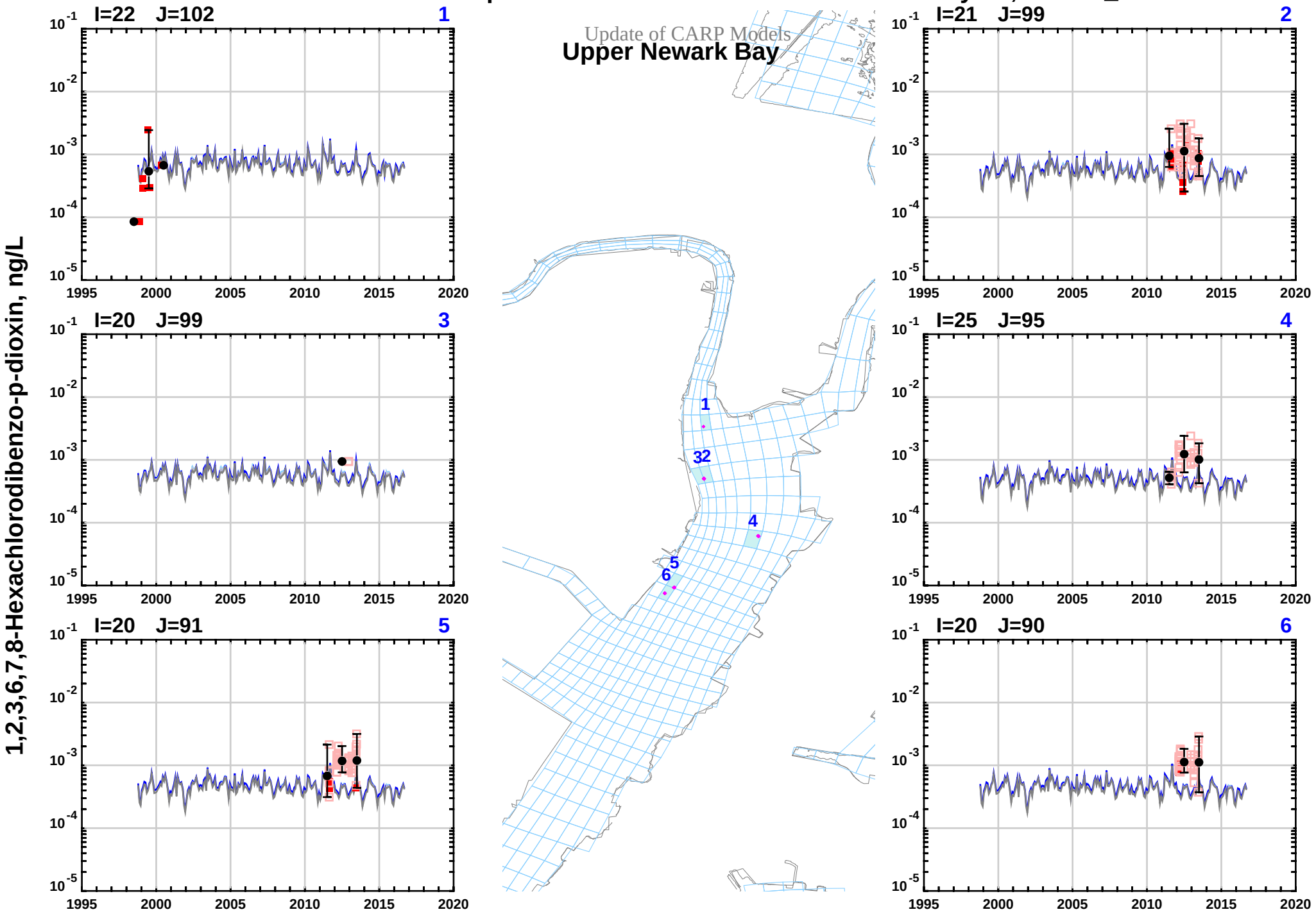
Model: mean and range of values in Water Column

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_S3



Detect Data Non-Detect Data

Model: mean and range of values in Water Column

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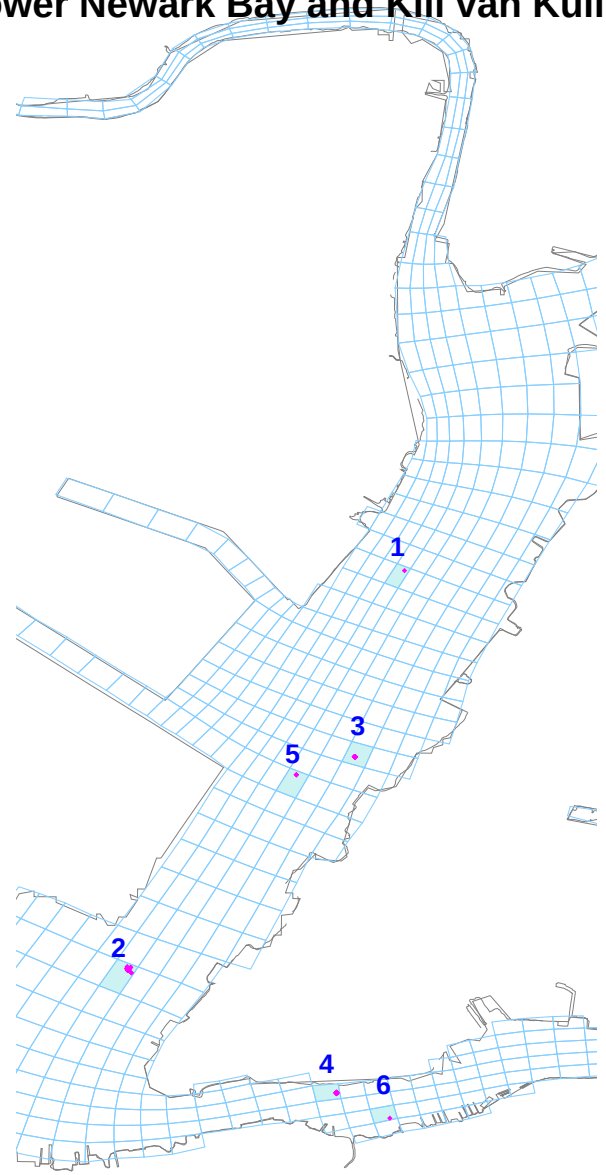
Water Column Data: yearly mean and range

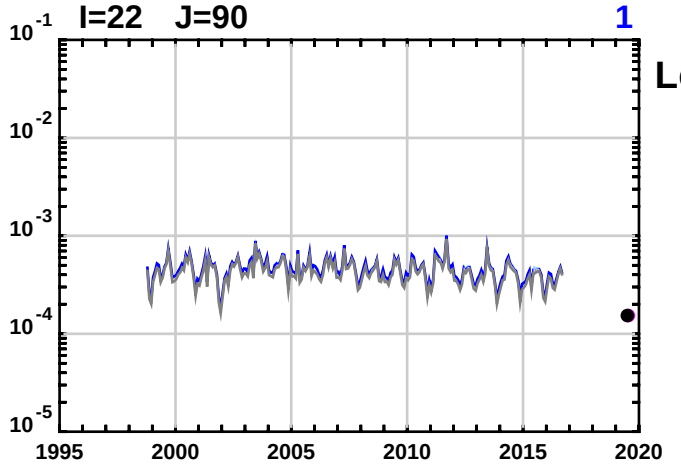
CARP2 Data

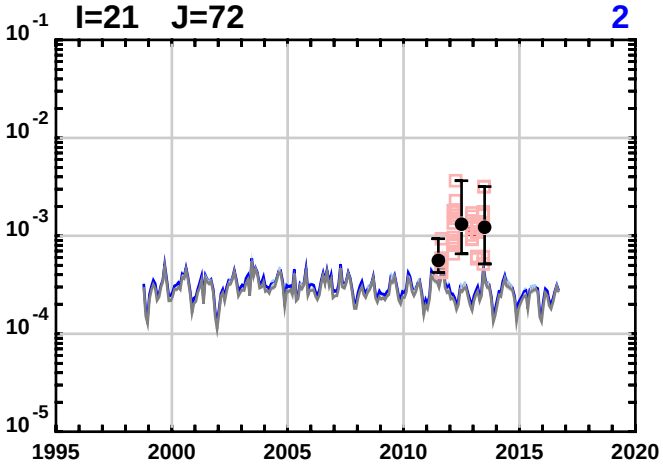
Water Column Data Comparison With Model All Water Column Layers, RUN18_S3

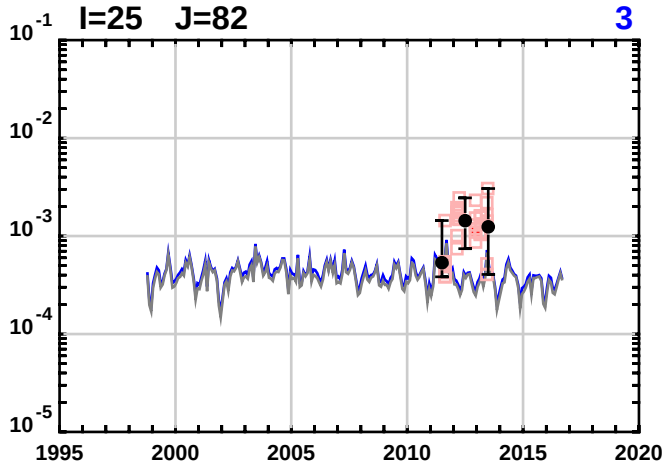
Update of CARP Models

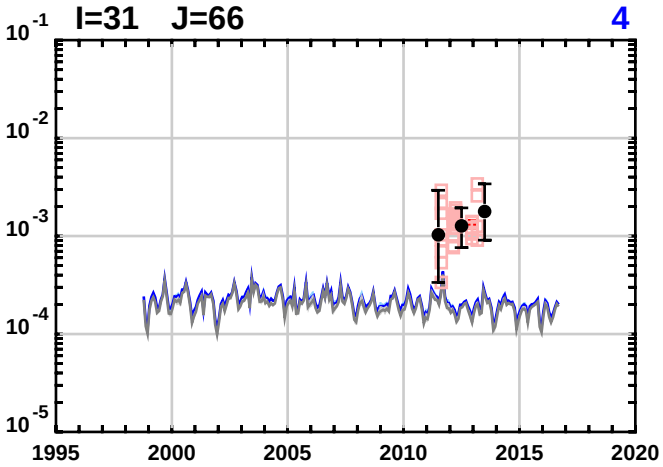
Lower Newark Bay and Kill van Kull

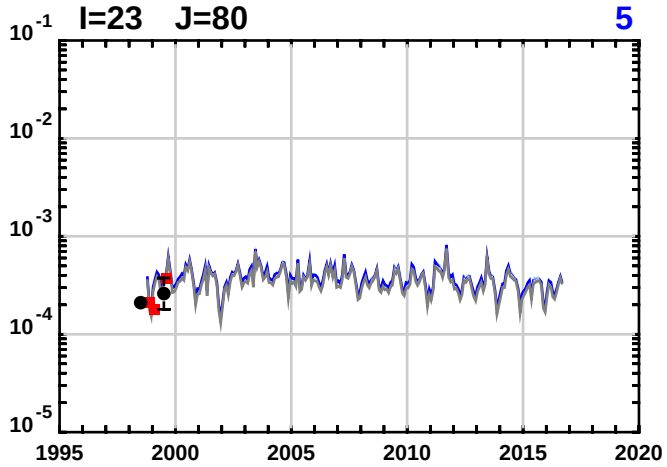


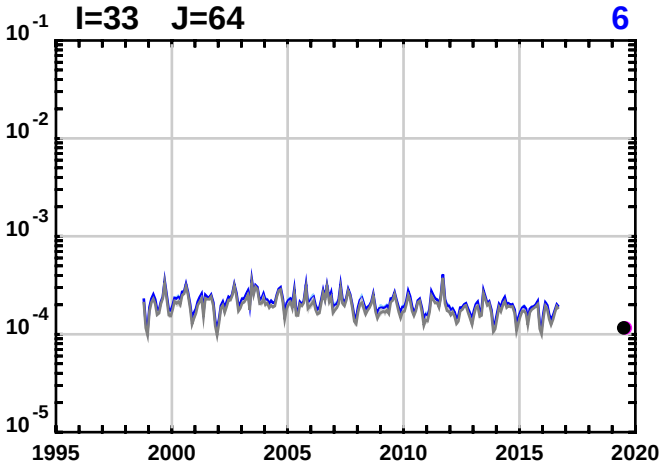












1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin, ng/L

Detect Data Non-Detect Data

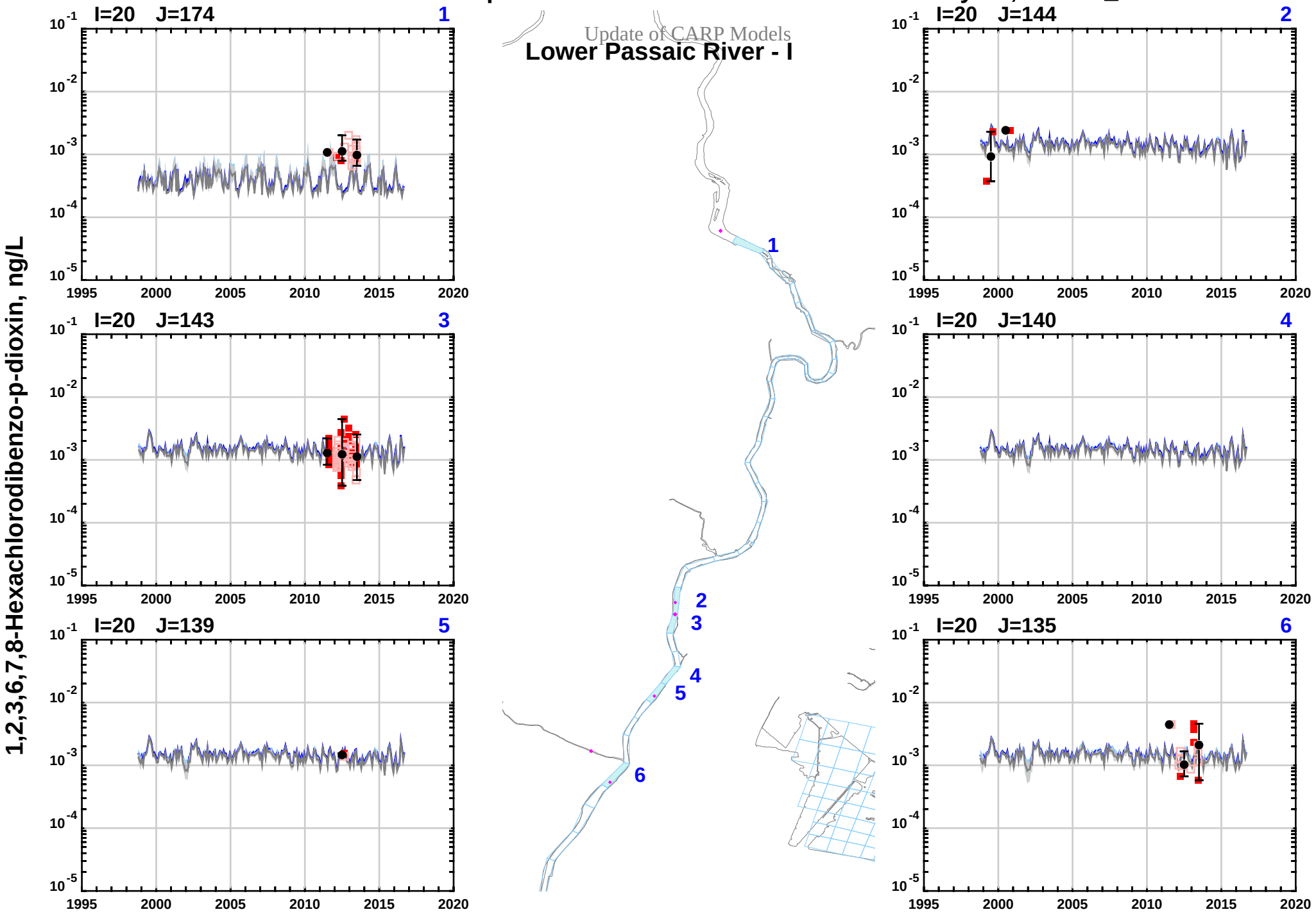
Model: mean and range of values in Water Column

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_S3



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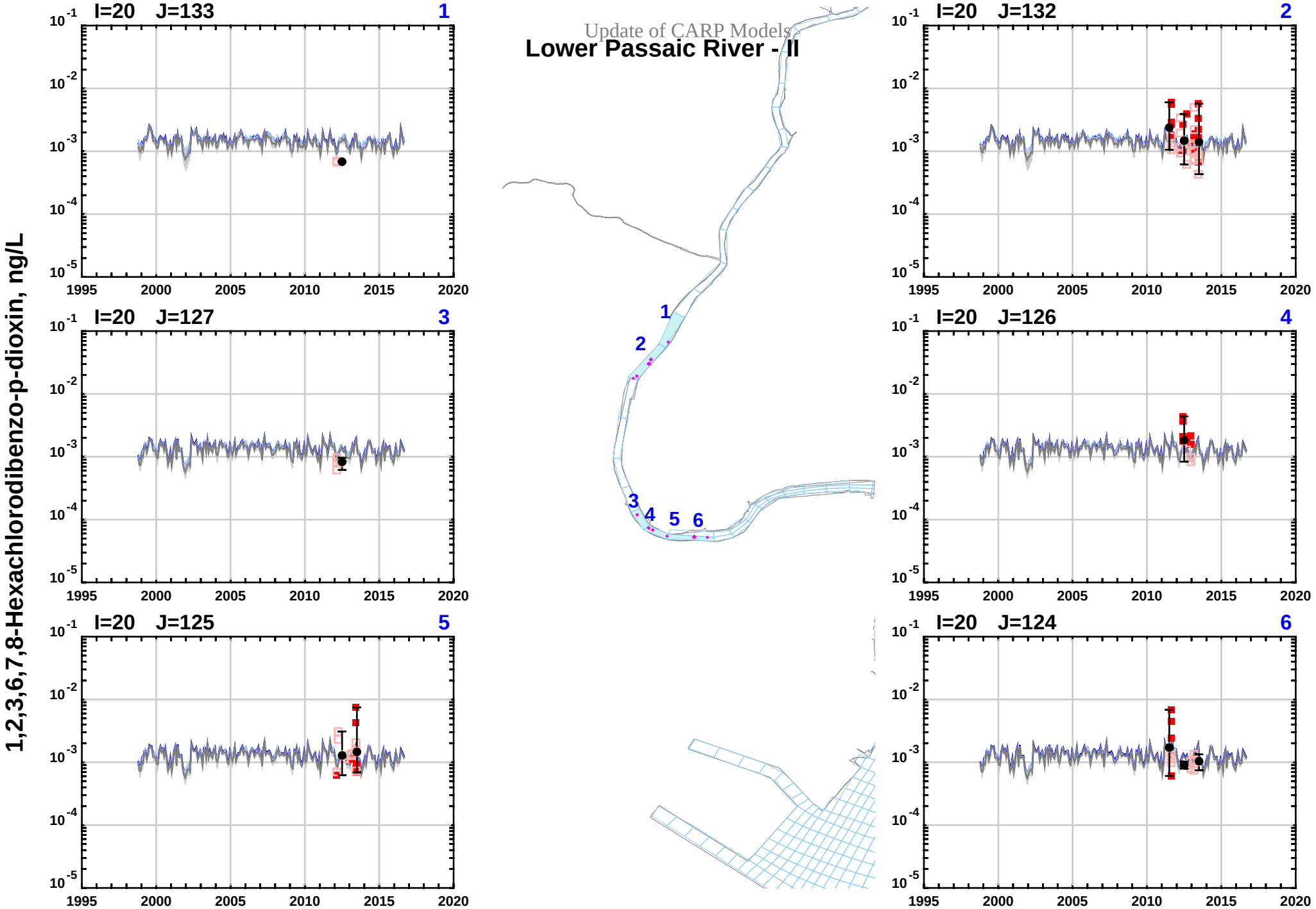
Water Column Data Comparison With Model All Water Column Layers, RUN18_S3



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● Water Column Data: yearly mean and range

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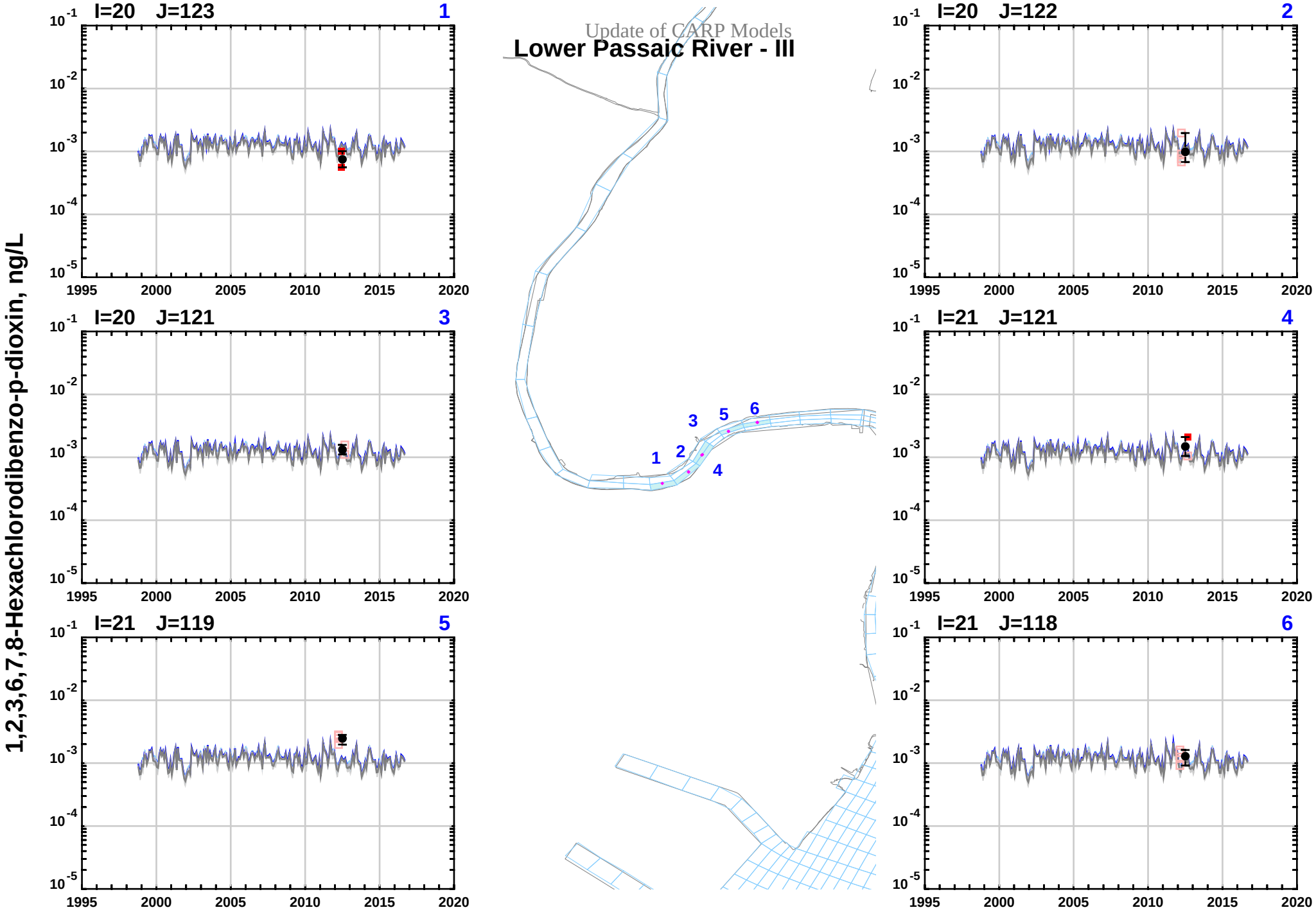
Water Column Data Comparison With Model All Water Column Layers, RUN18_S3



Detect Data Non-Detect Data

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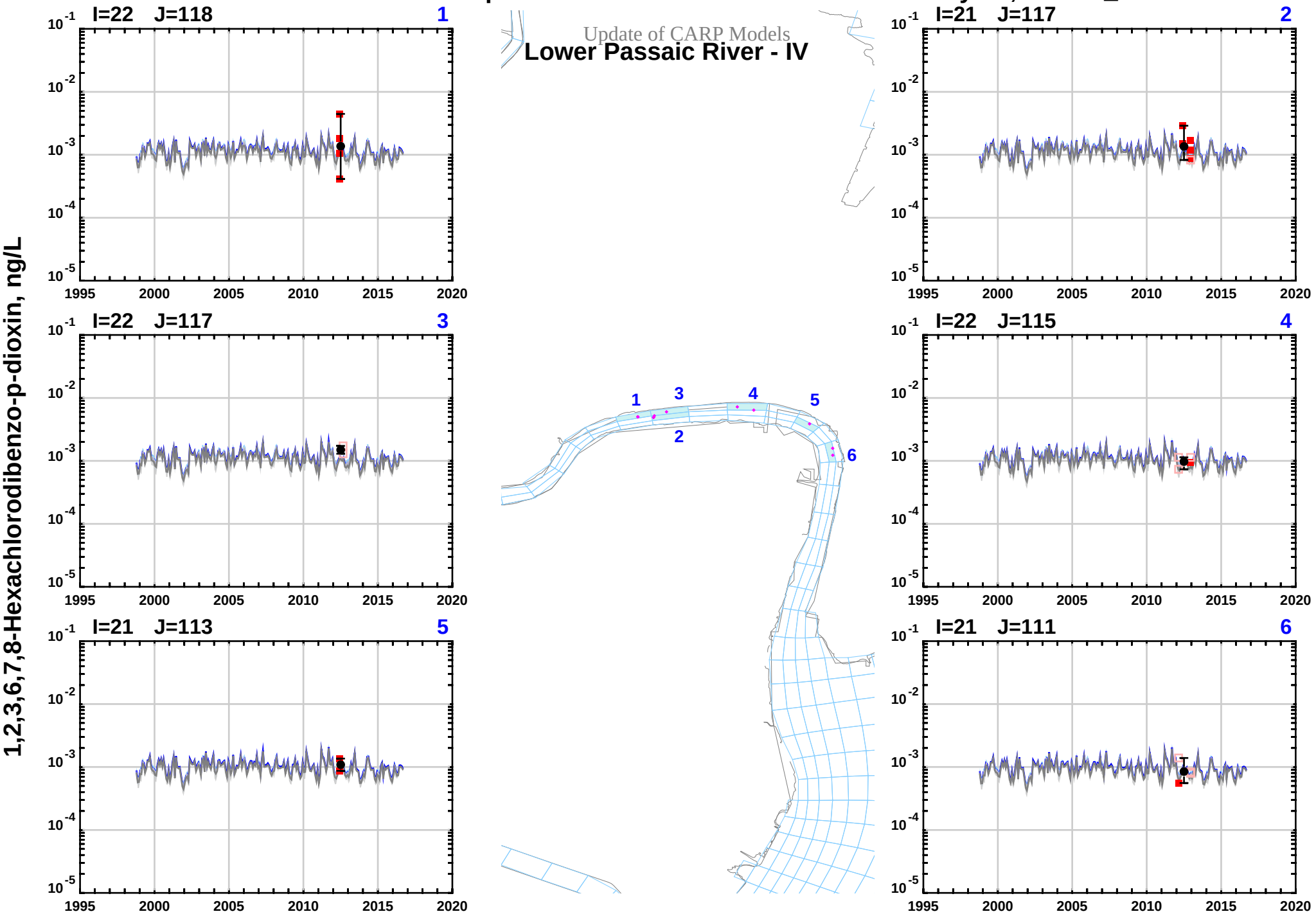
Water Column Data: yearly mean and range

CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_S3

Update of CARP Models

Lower Passaic River - IV



Detect Data Non-Detect Data

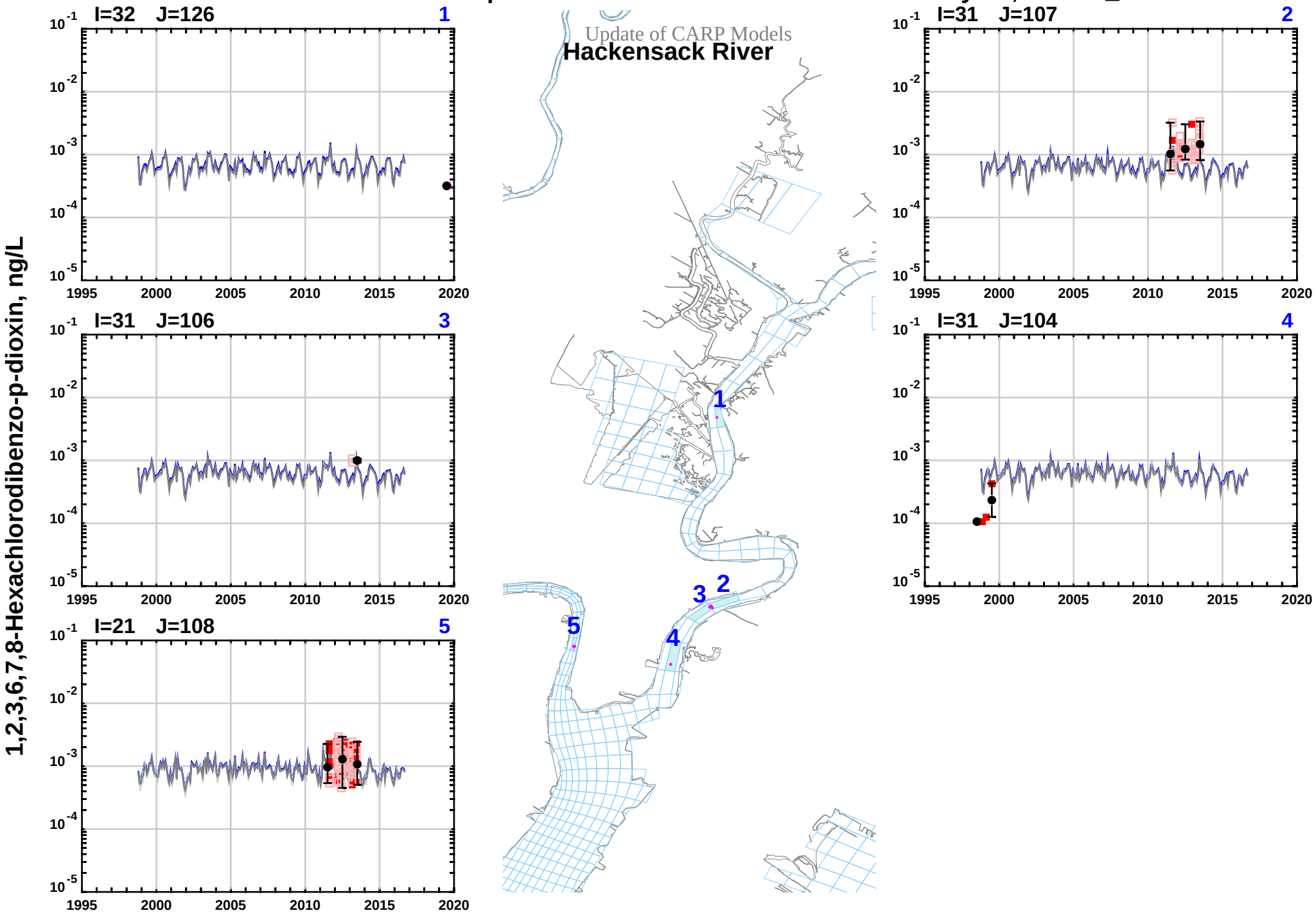
Model: mean and range of values in Water Column

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_S3



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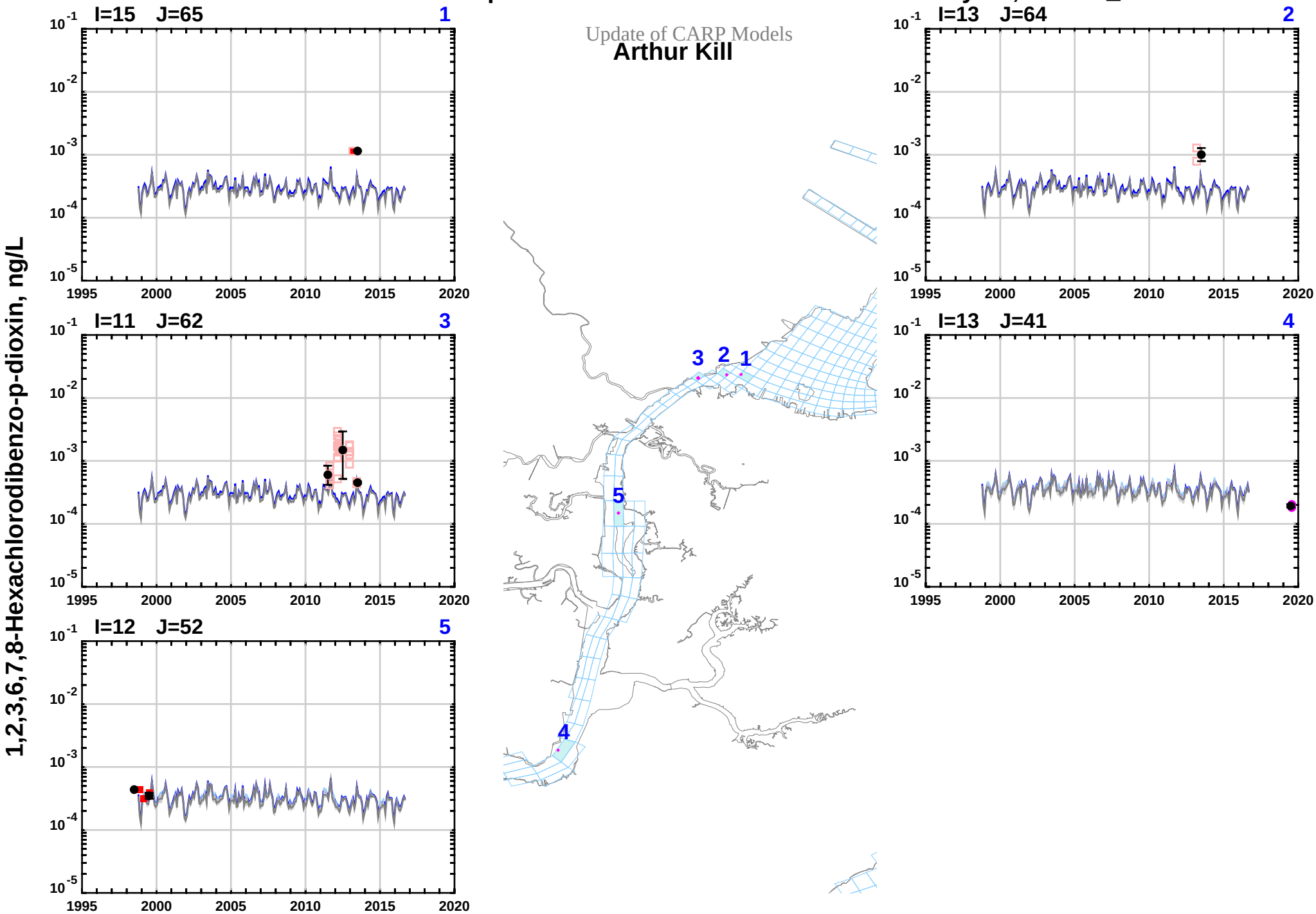
Water Column Data Comparison With Model All Water Column Layers, RUN18_S3

Update of CARP Models

Arthur Kill



Detect Data Non-Detect Data

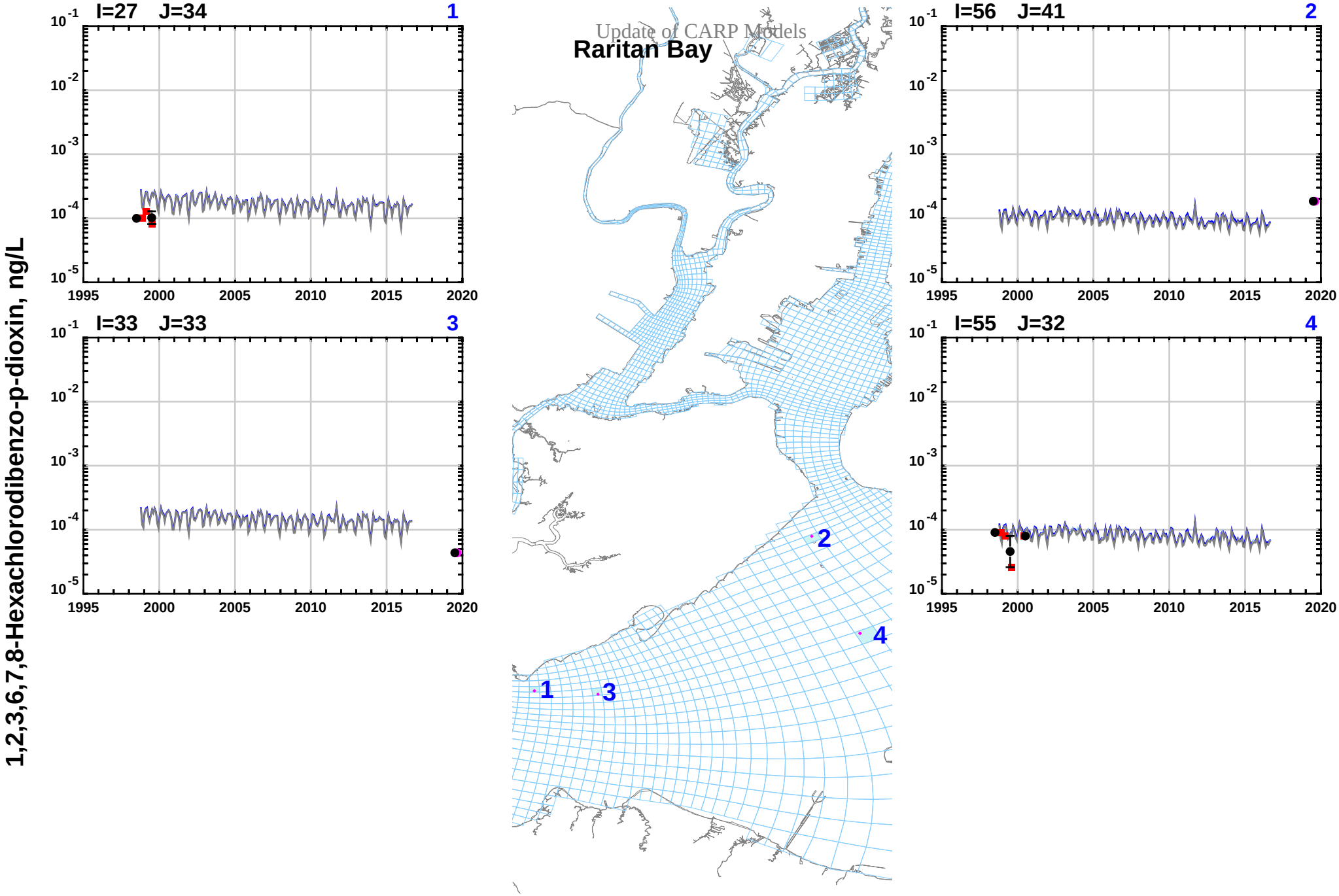
Model: mean and range of values in Water Column

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_S3



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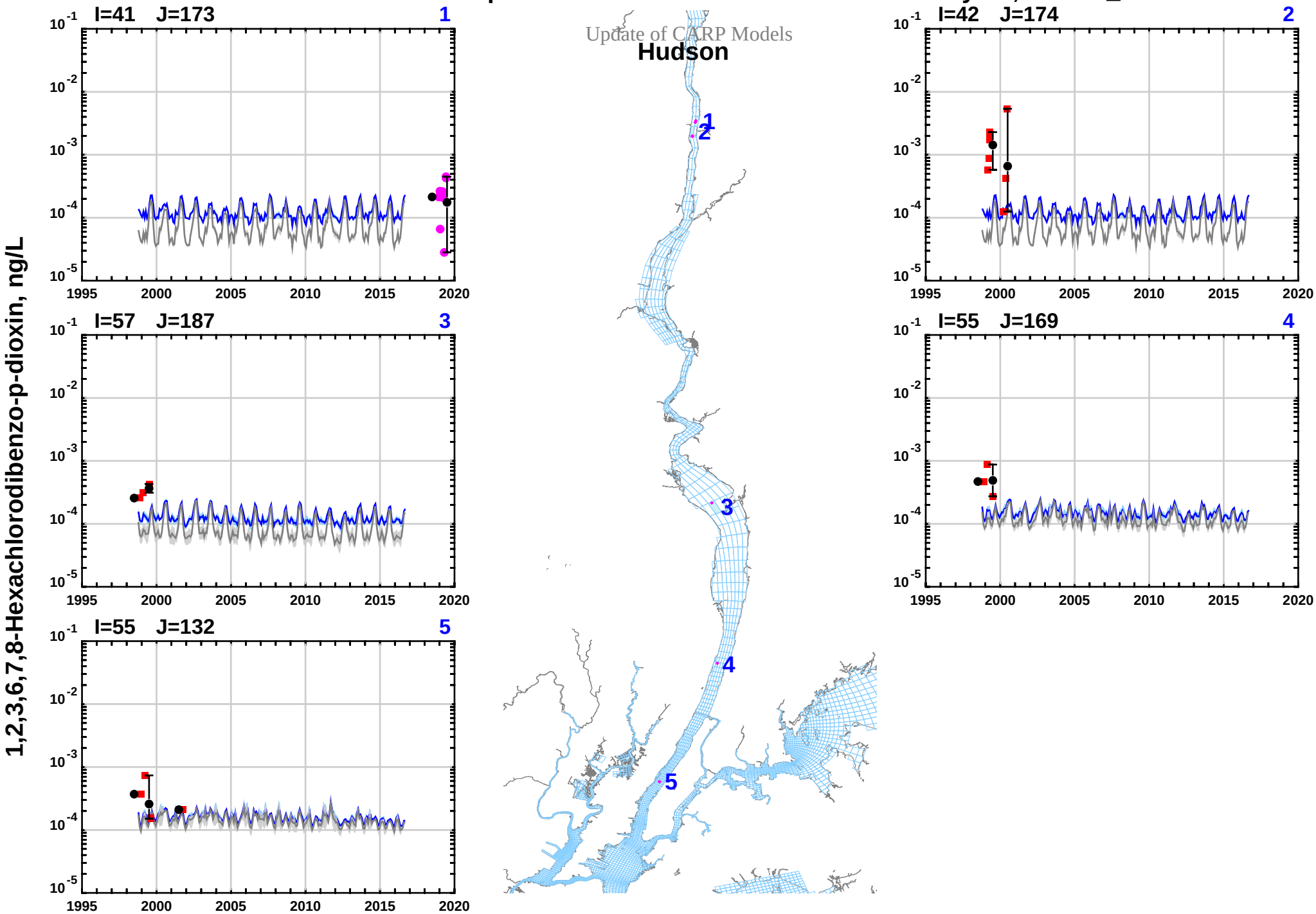
Water Column Data Comparison With Model All Water Column Layers, RUN18_S3



Detect Data Non-Detect Data

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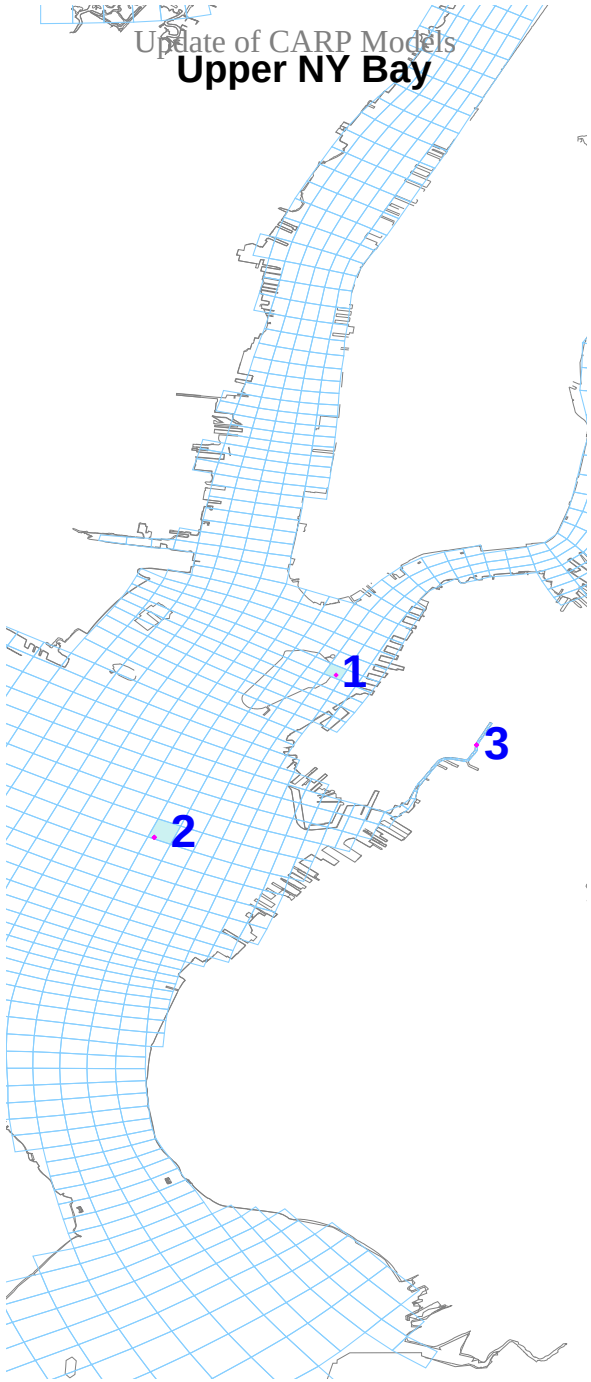
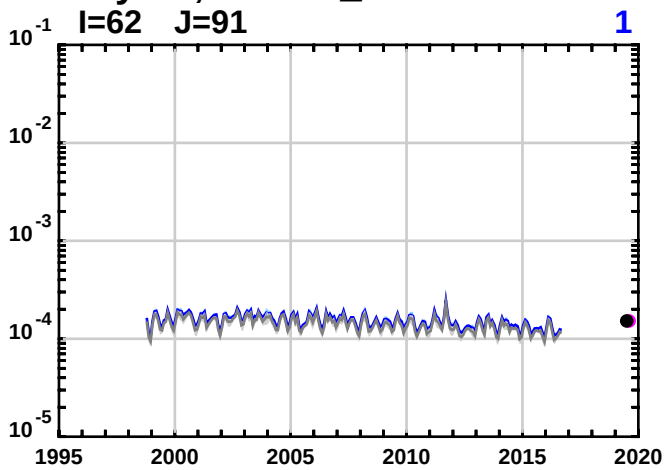
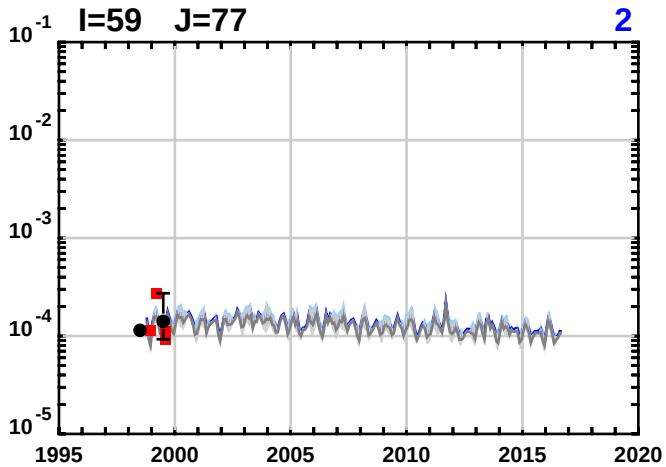
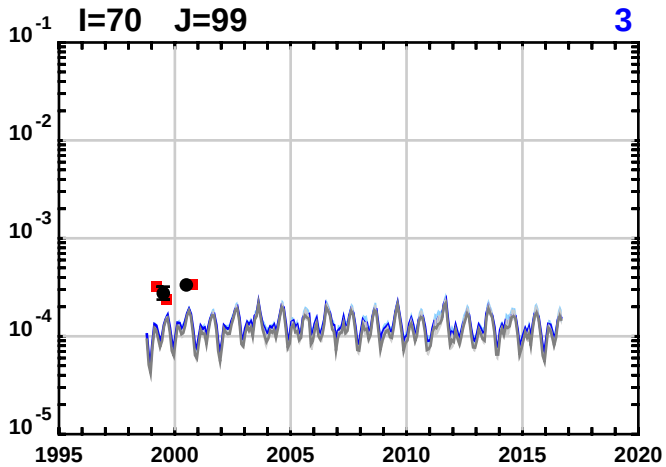
Water Column Data Comparison With Model All Water Column Layers, RUN18_S3

1,2,3,6,7,8-Hexachlorodibenzo-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

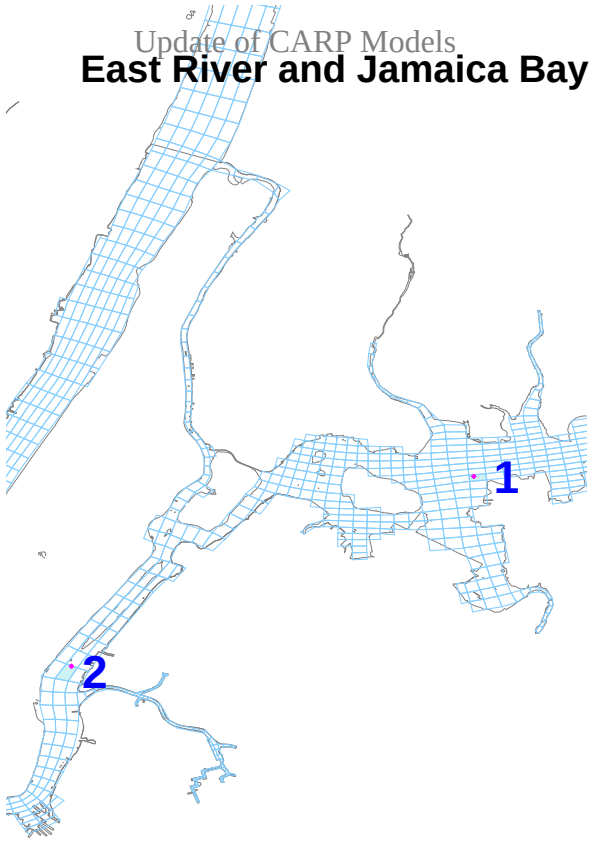
● Water Column Data: yearly mean and range

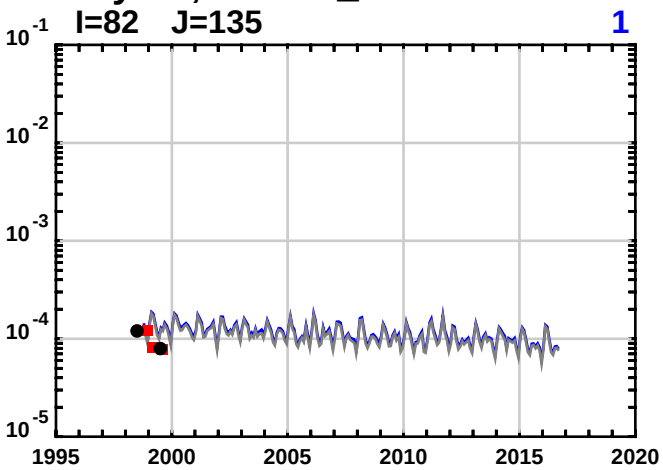
● CARP2 Data

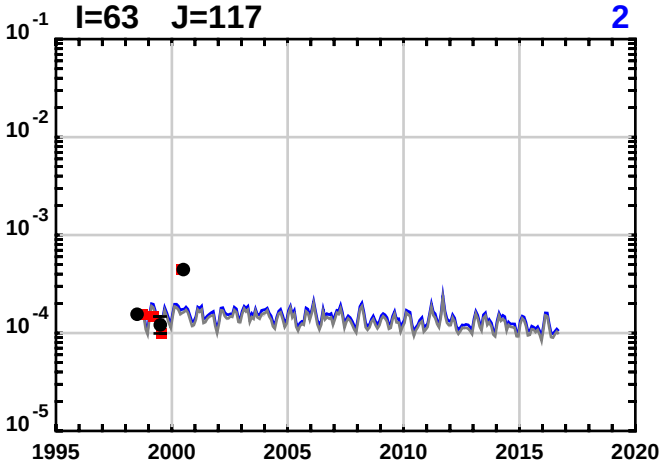
Water Column Data Comparison With Model All Water Column Layers, RUN18_S3

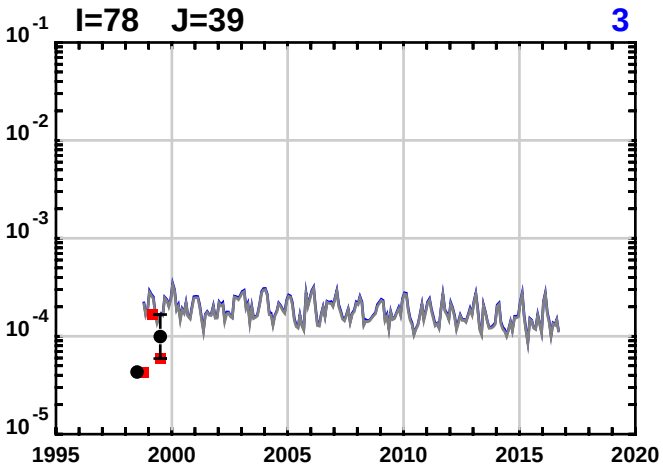
East River and Jamaica Bay

1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin, ng/L









Detect Data Non-Detect Data

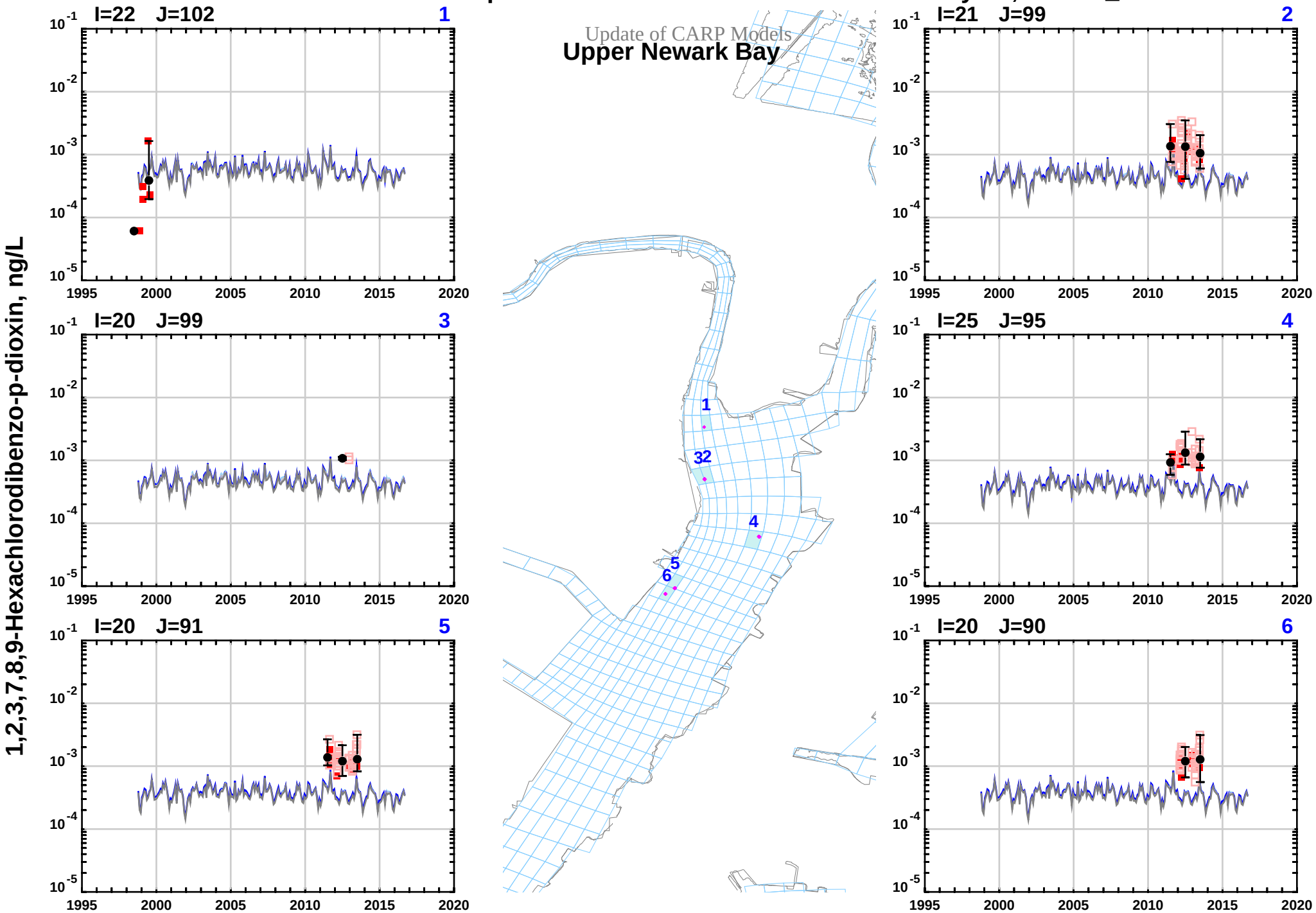
Model: mean and range of values in Water Column

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

● Water Column Data: yearly mean and range

● CARP2 Data

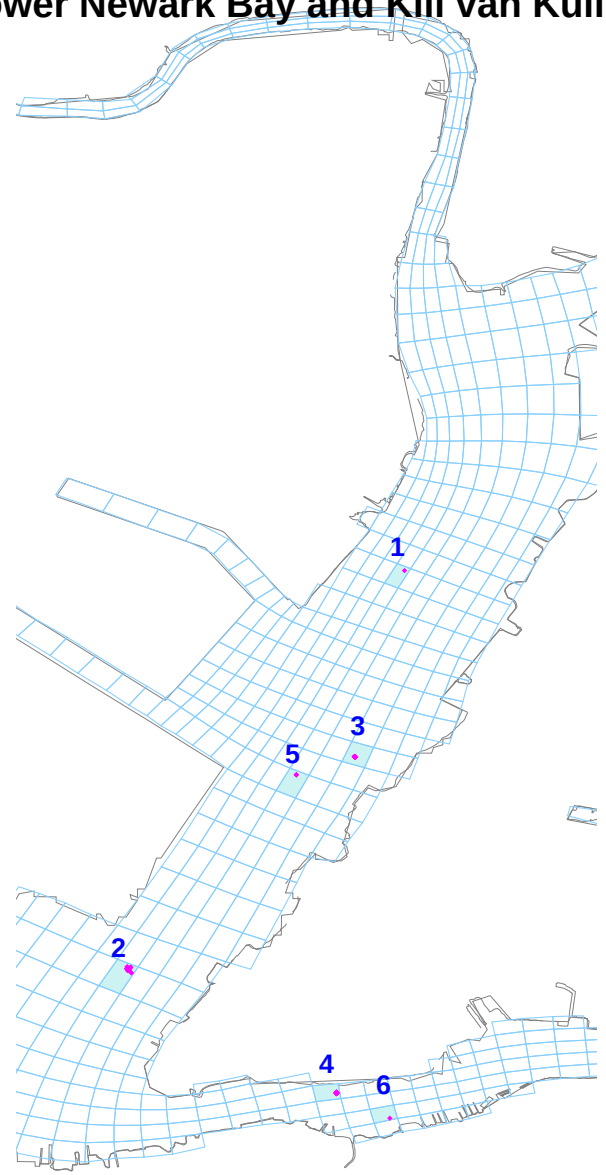
Water Column Data Comparison With Model All Water Column Layers, RUN18_S3

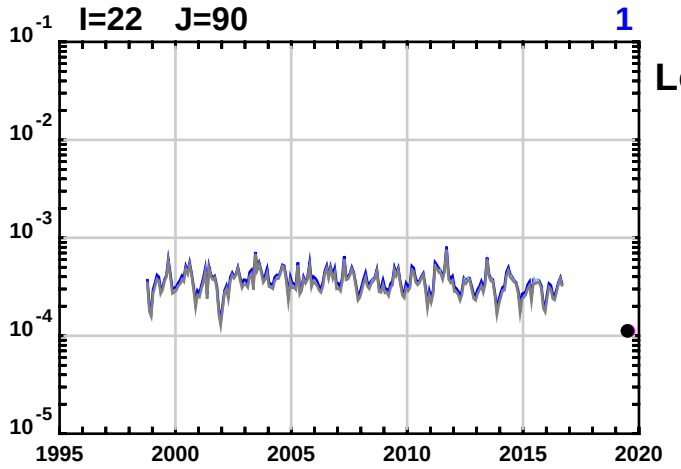


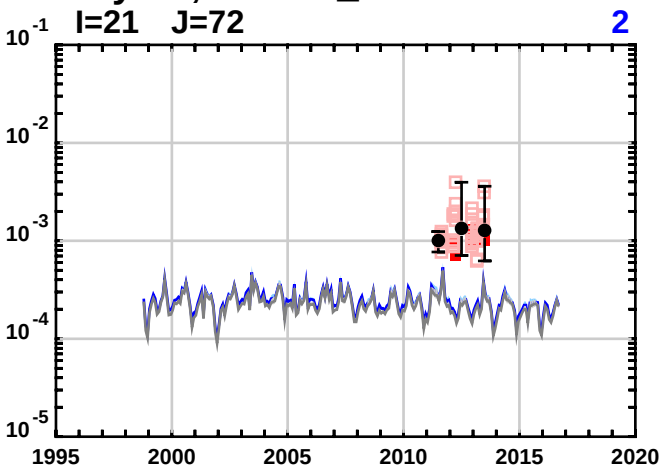
Water Column Data Comparison With Model All Water Column Layers, RUN18_S3

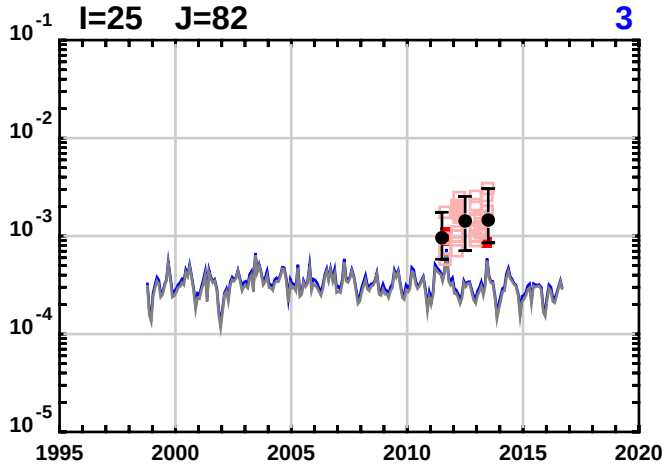
Update of CARP Models

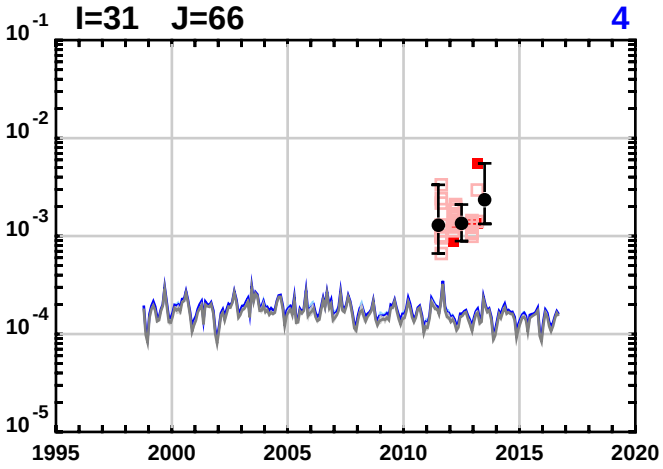
Lower Newark Bay and Kill van Kull

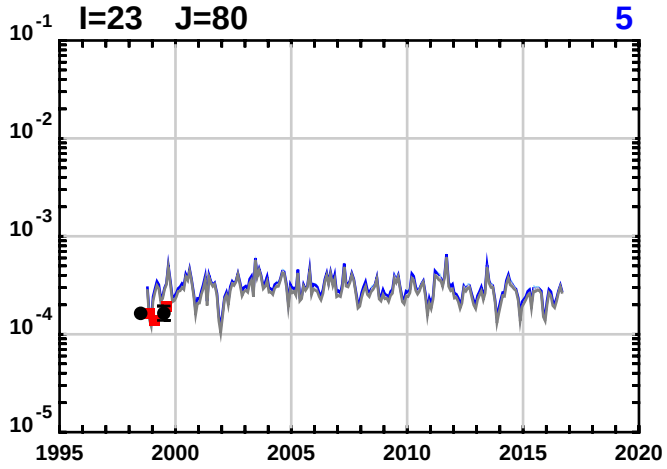


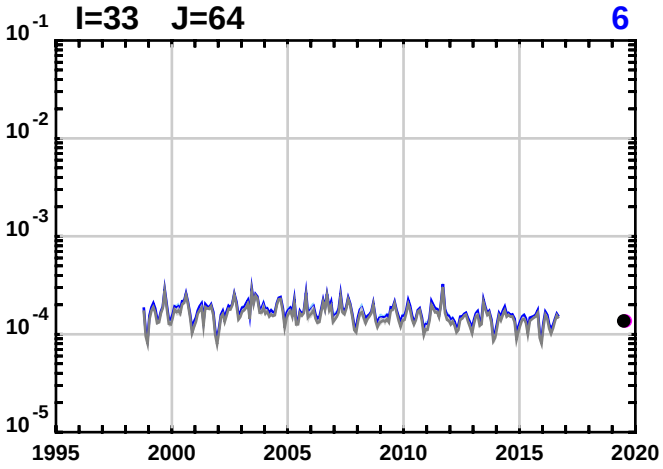












1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin, ng/L

Detect Data Non-Detect Data

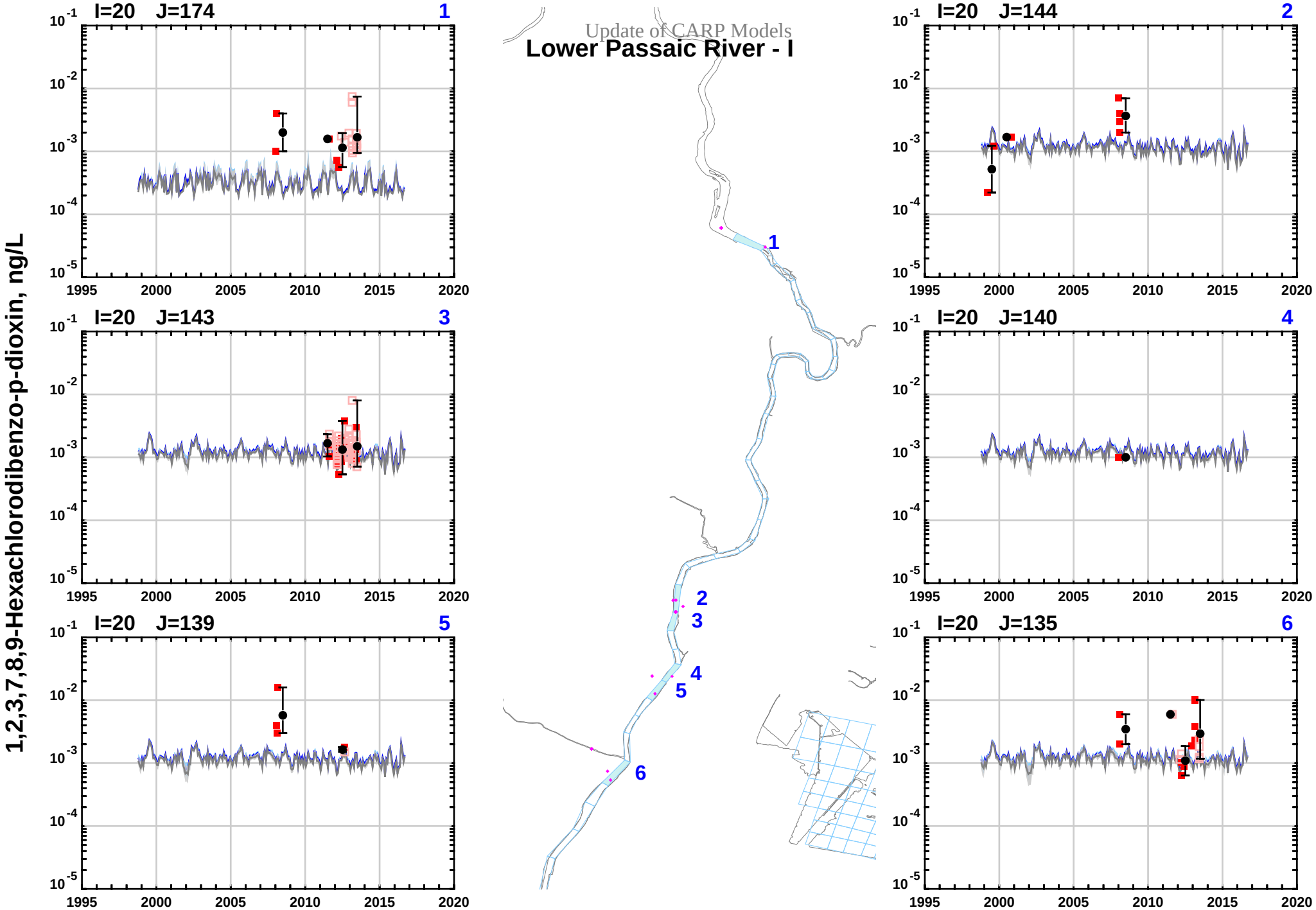
Model: mean and range of values in Water Column

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_S3



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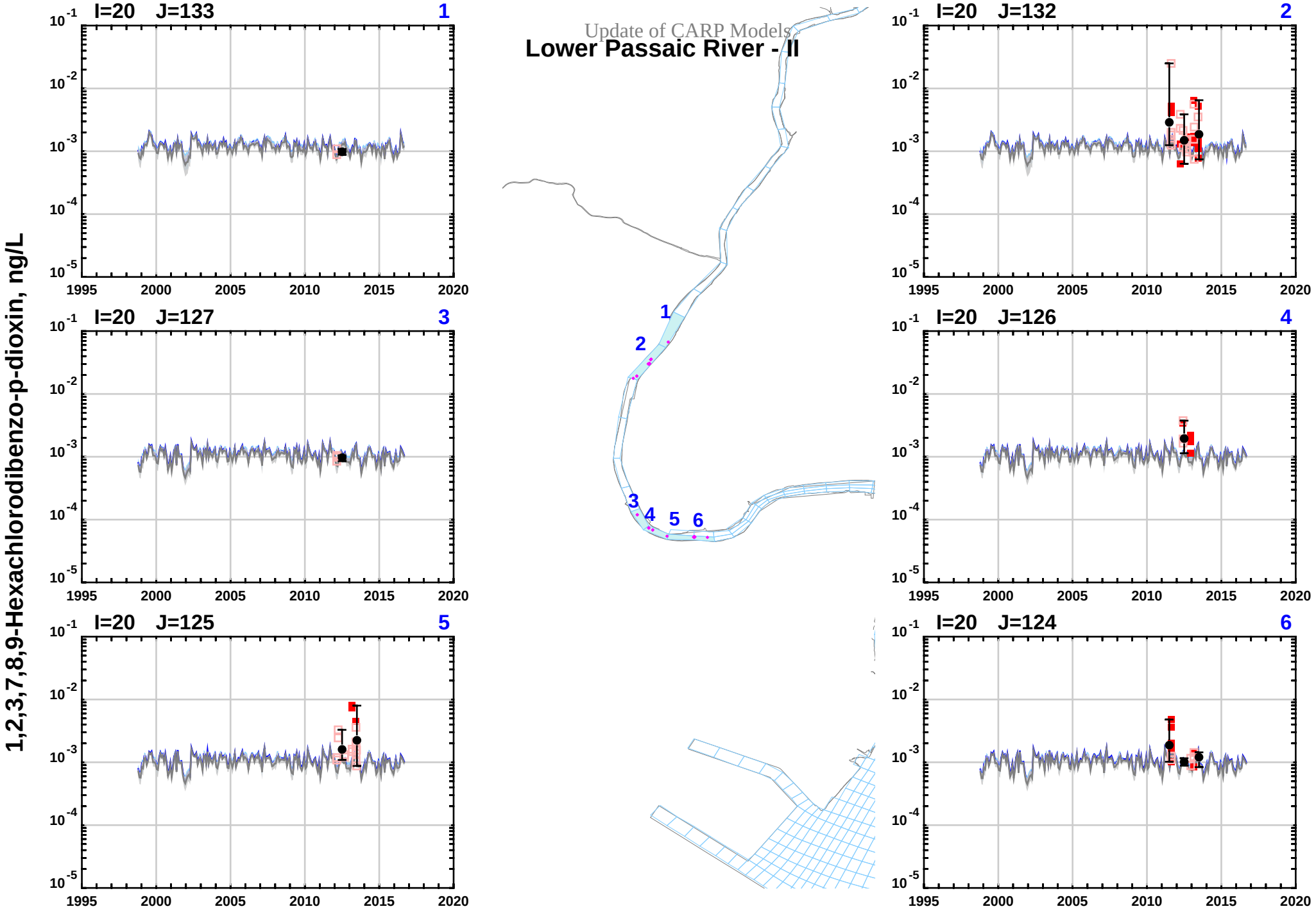

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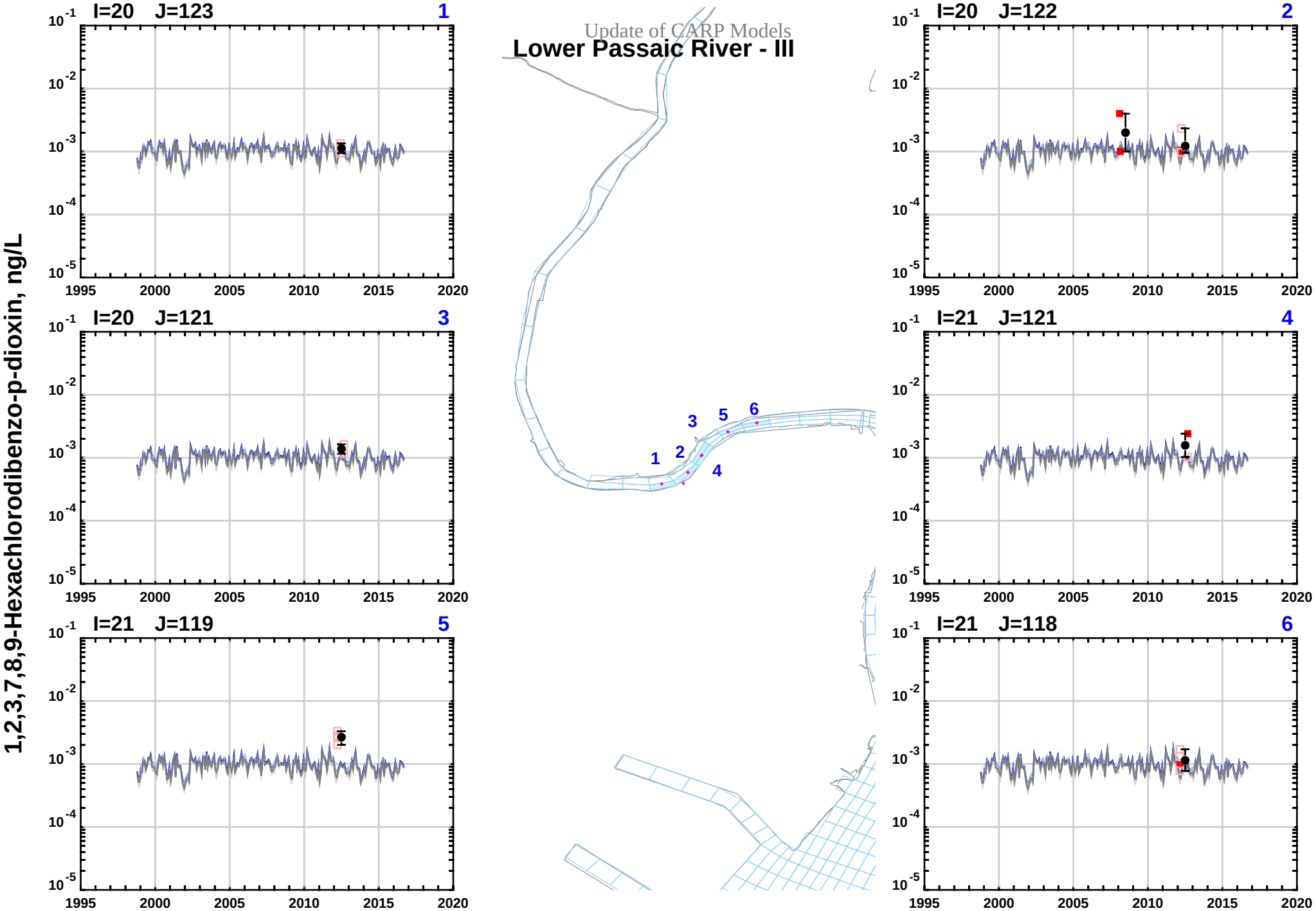
Water Column Data Comparison With Model All Water Column Layers, RUN18_S3



Detect Data Non-Detect Data

Model: mean and range of values in Water Column

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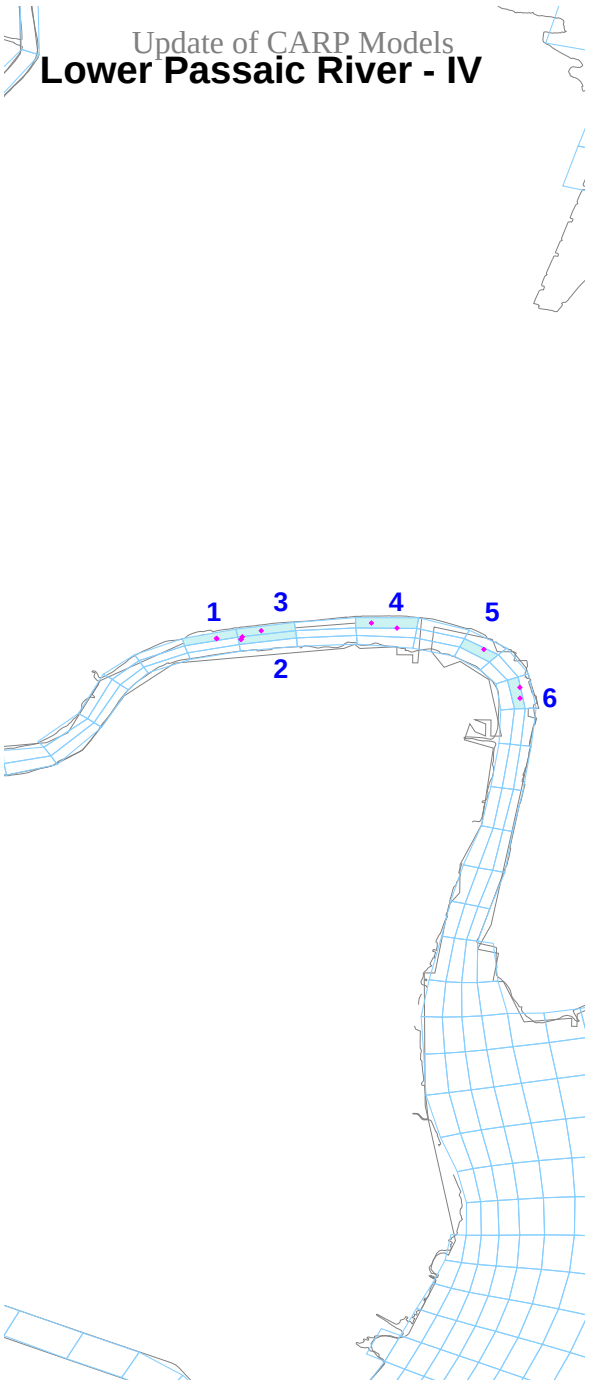
● Water Column Data: yearly mean and range

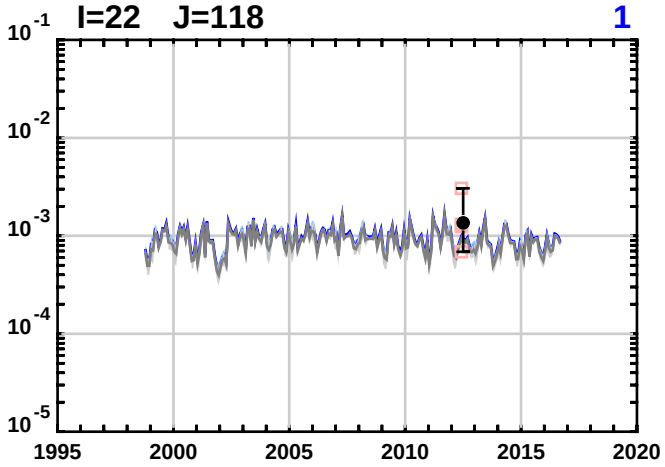
● CARP2 Data

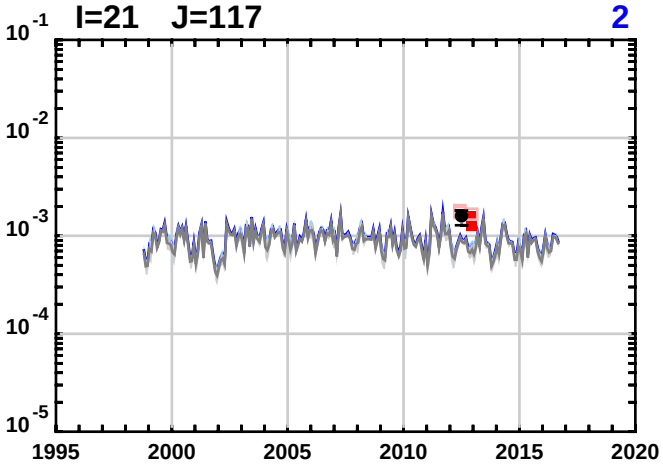
Water Column Data Comparison With Model All Water Column Layers, RUN18_S3

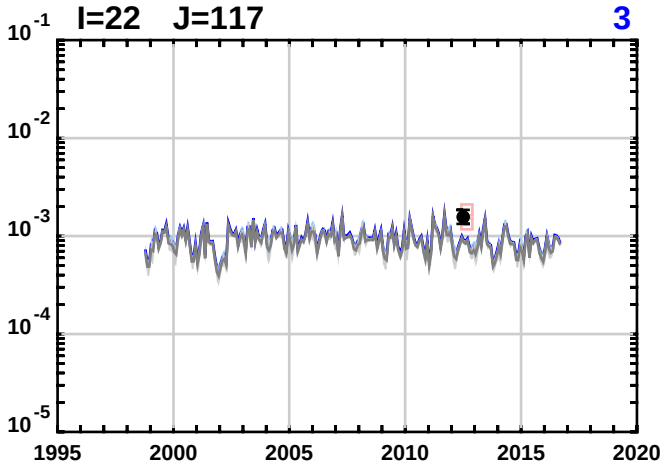
Update of CARP Models

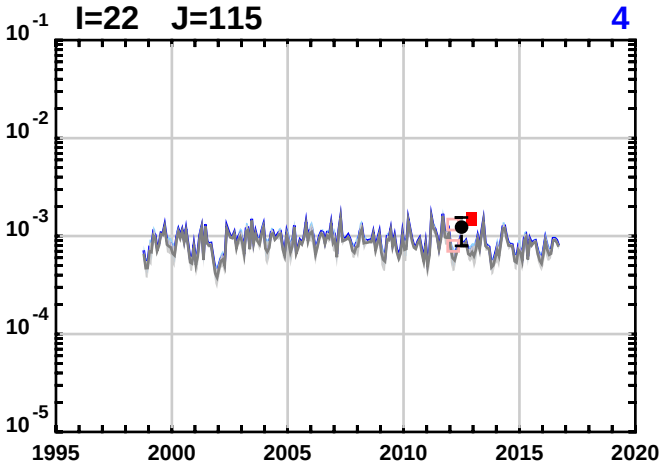
Lower Passaic River - IV

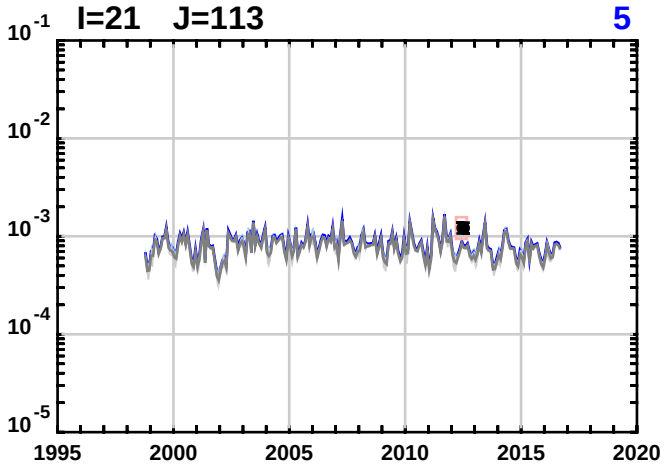


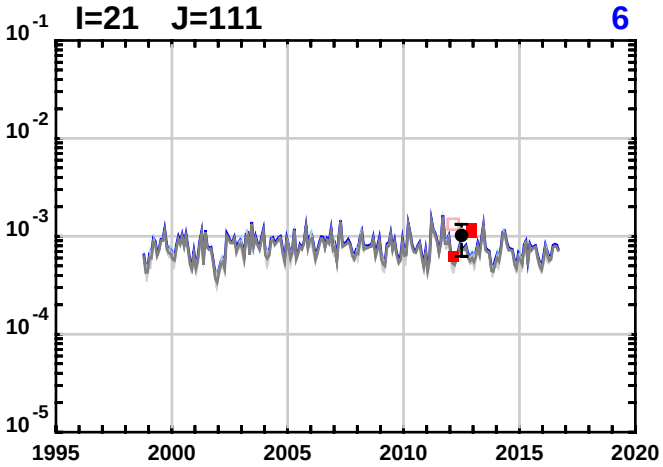












1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin, ng/L

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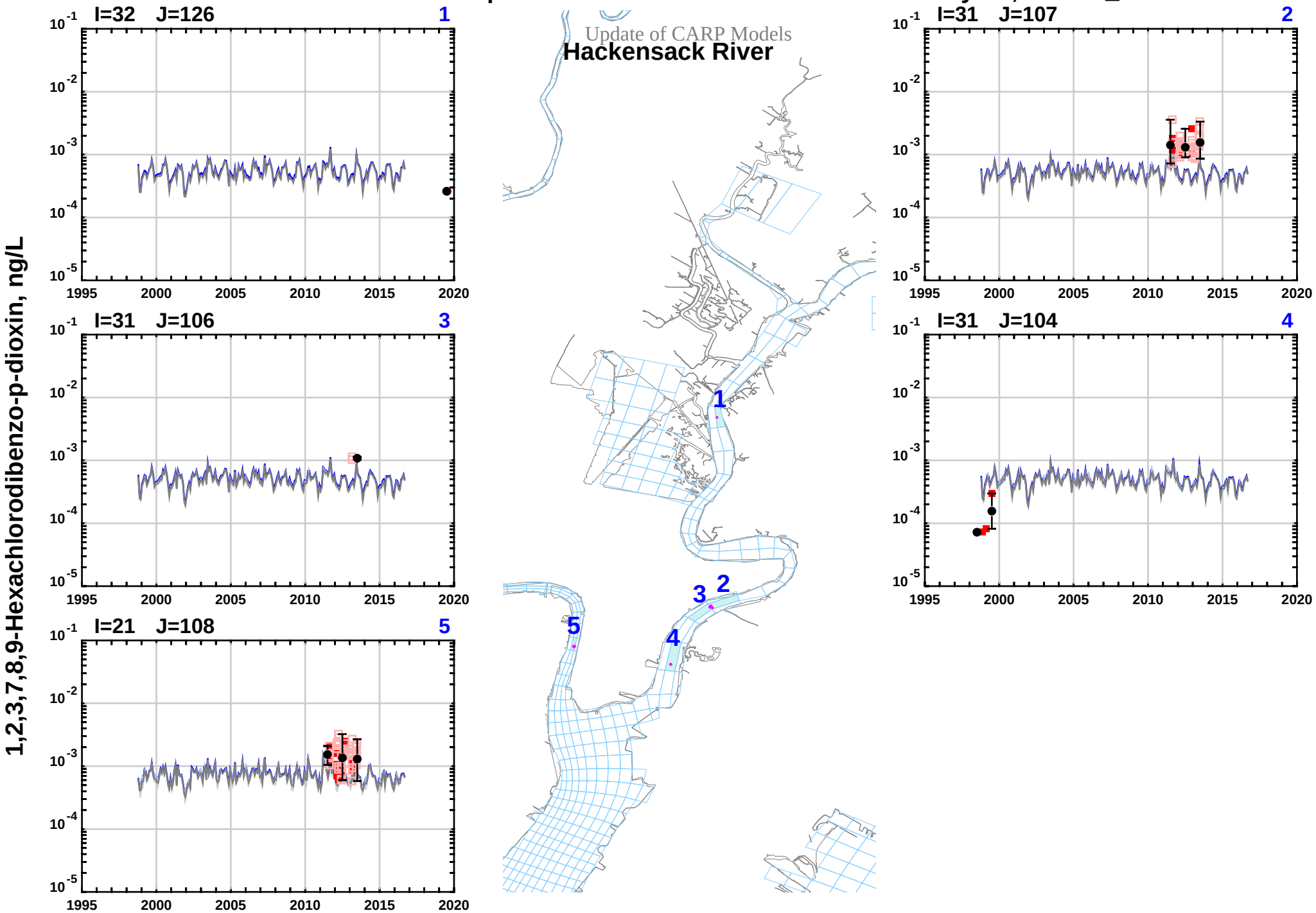
CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_S3



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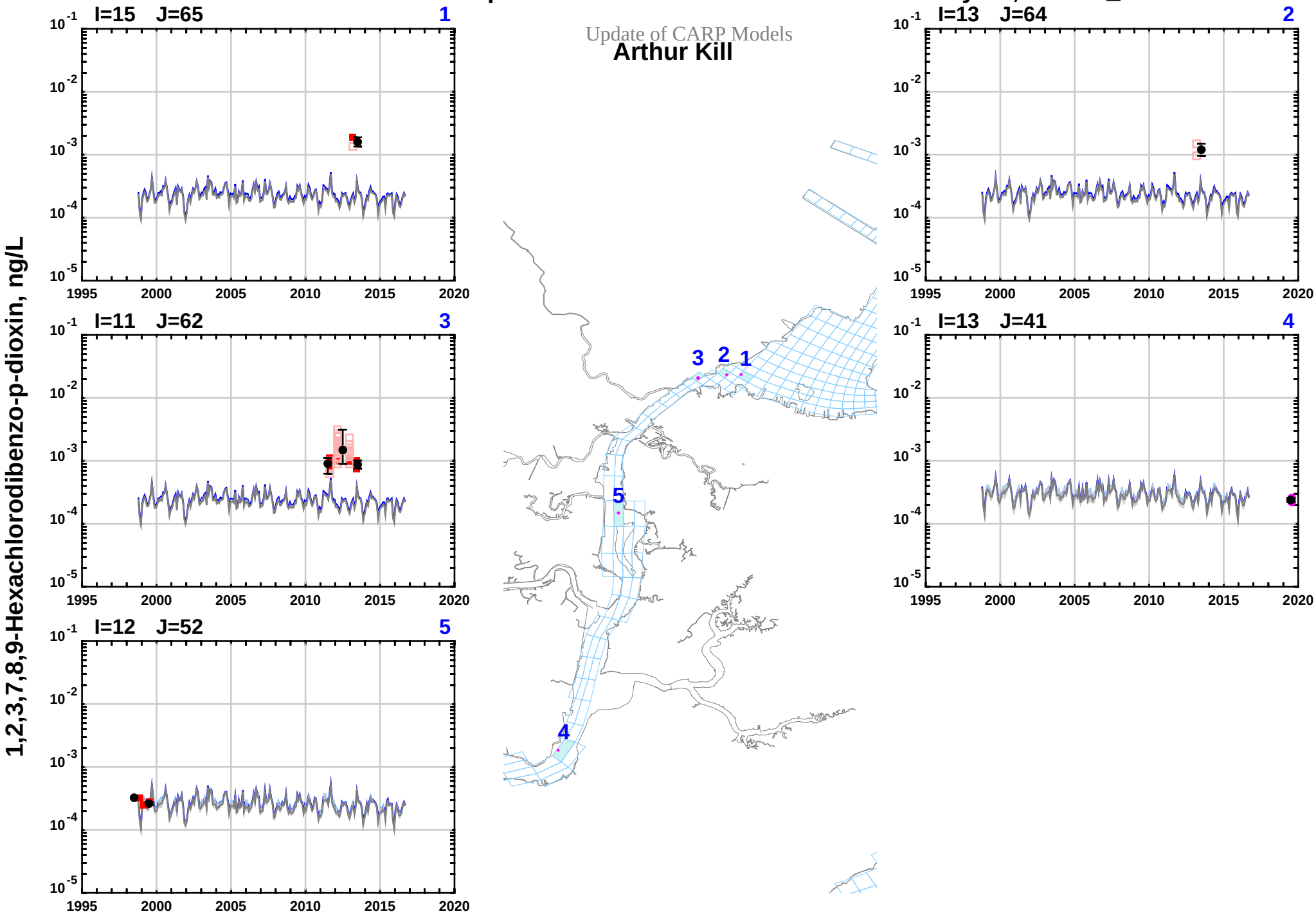
Water Column Data Comparison With Model All Water Column Layers, RUN18_S3

Update of CARP Models

Arthur Kill



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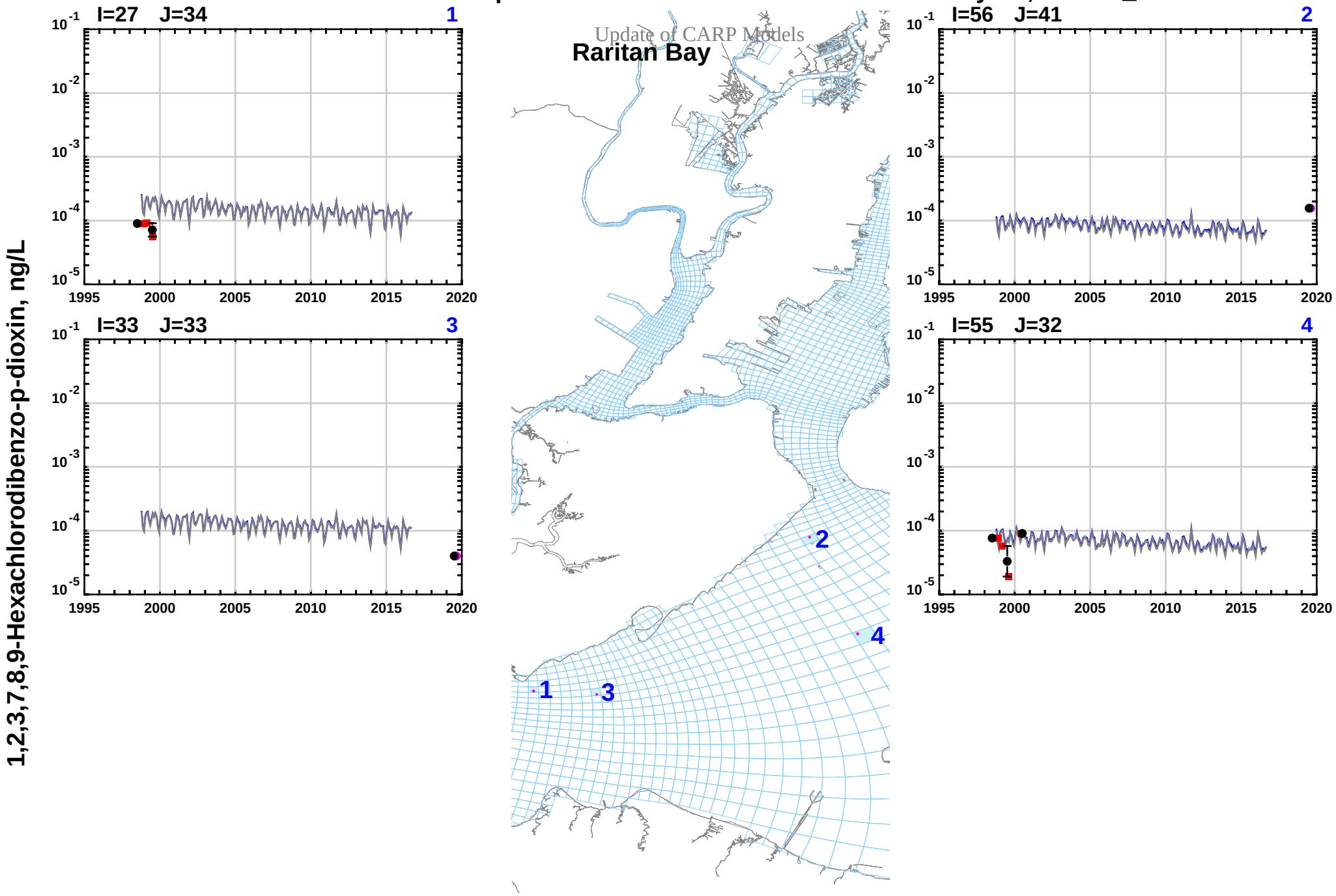

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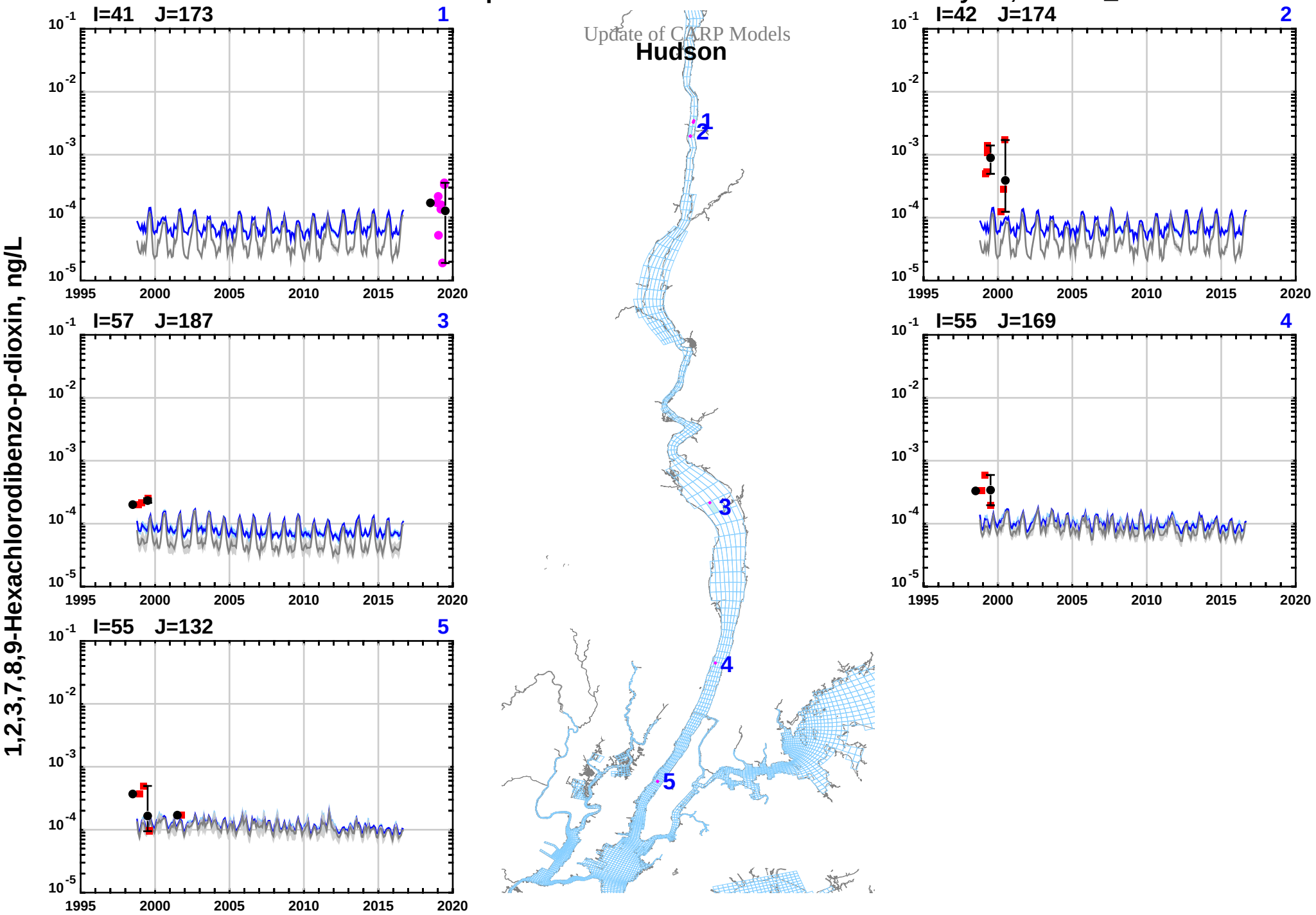
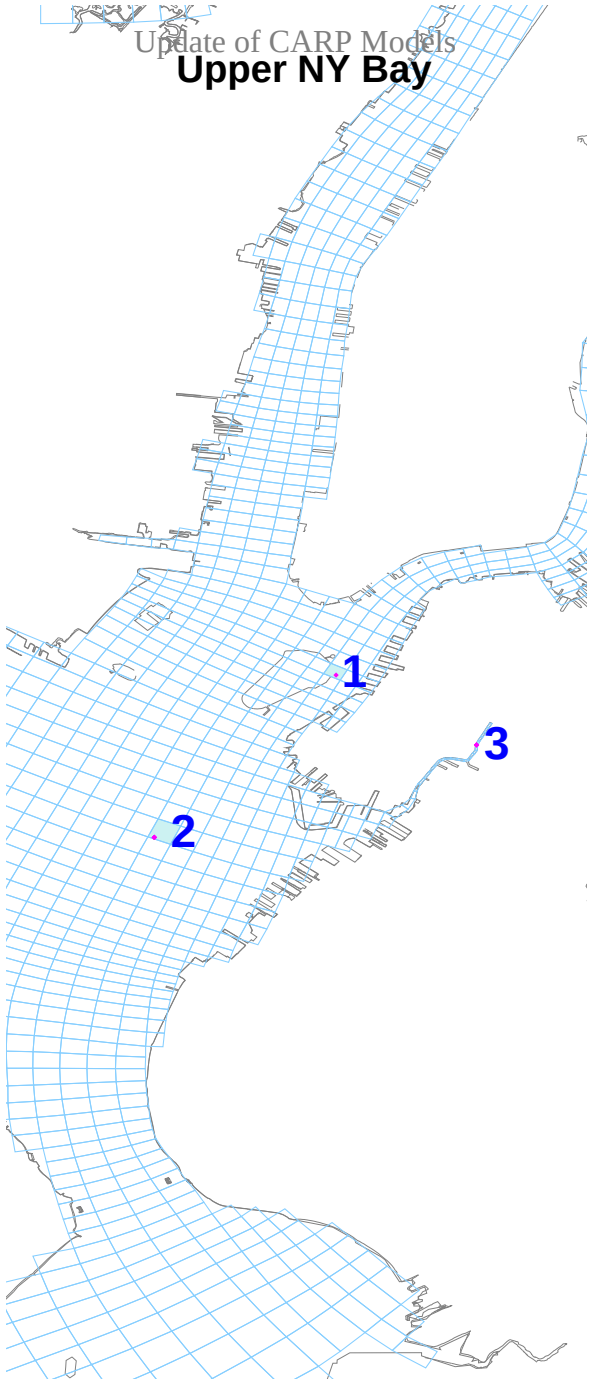
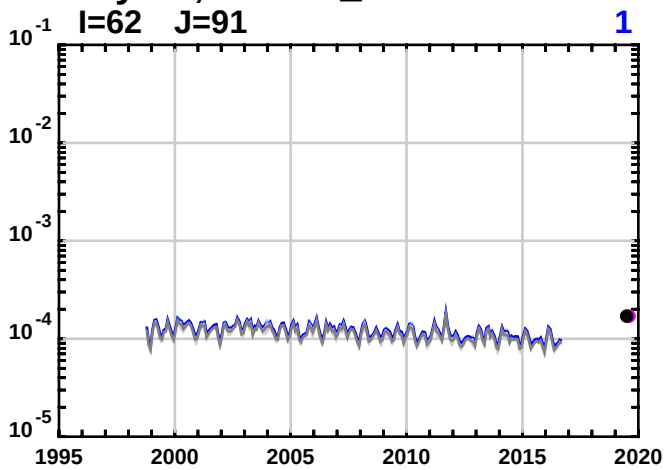


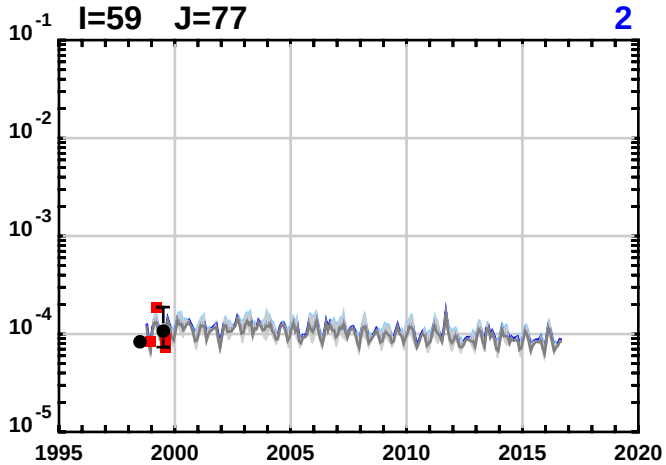
Water Column Data Comparison With Model All Water Column Layers, RUN18_S3

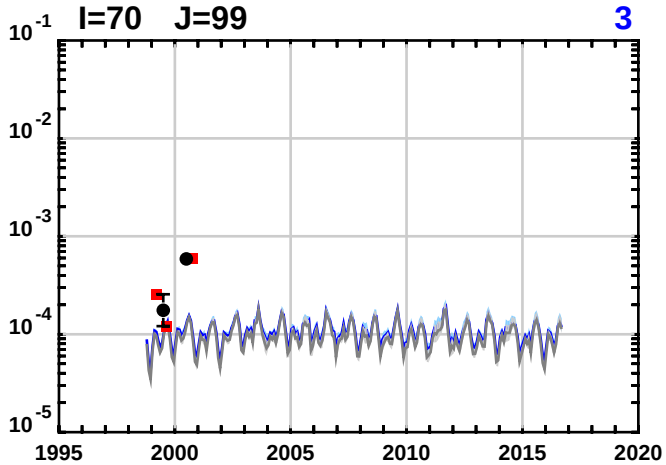
Update of CARP Models

Upper NY Bay









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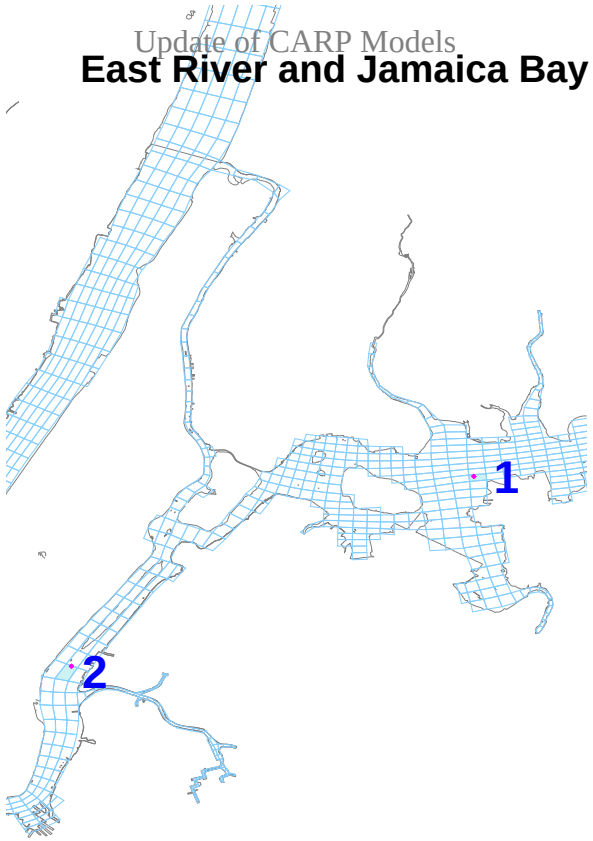
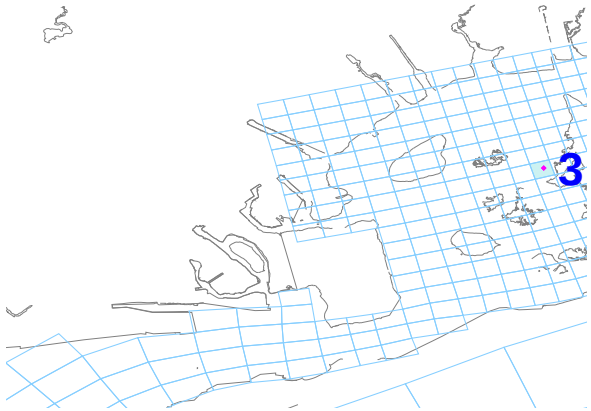
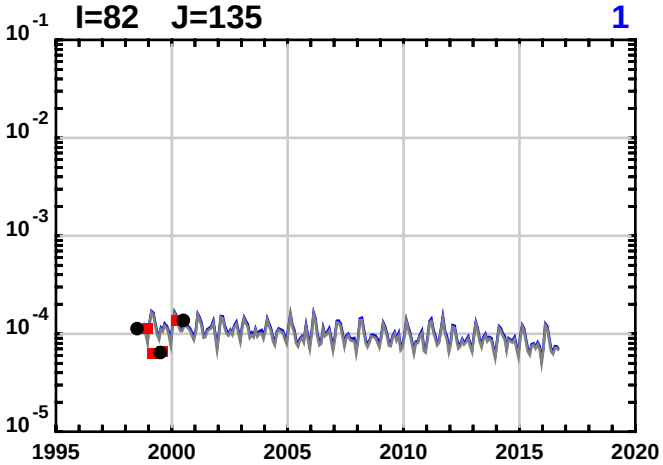
Water Column Data Comparison With Model All Water Column Layers, RUN18_S3

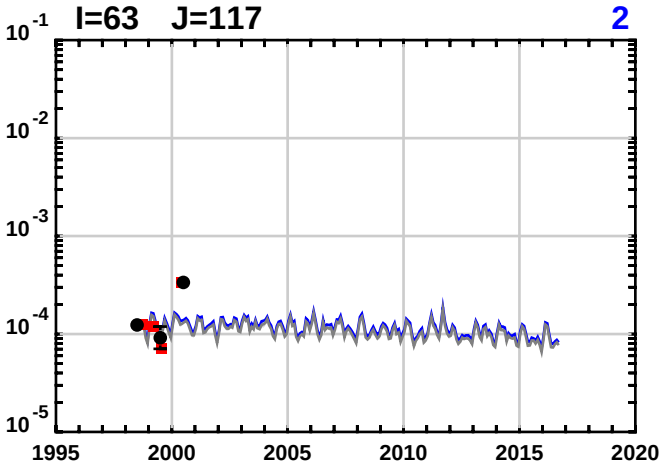
Update of CARP Models

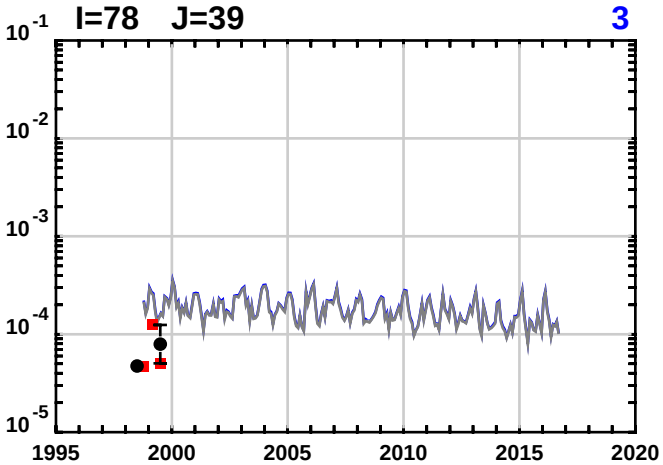
East River and Jamaica Bay











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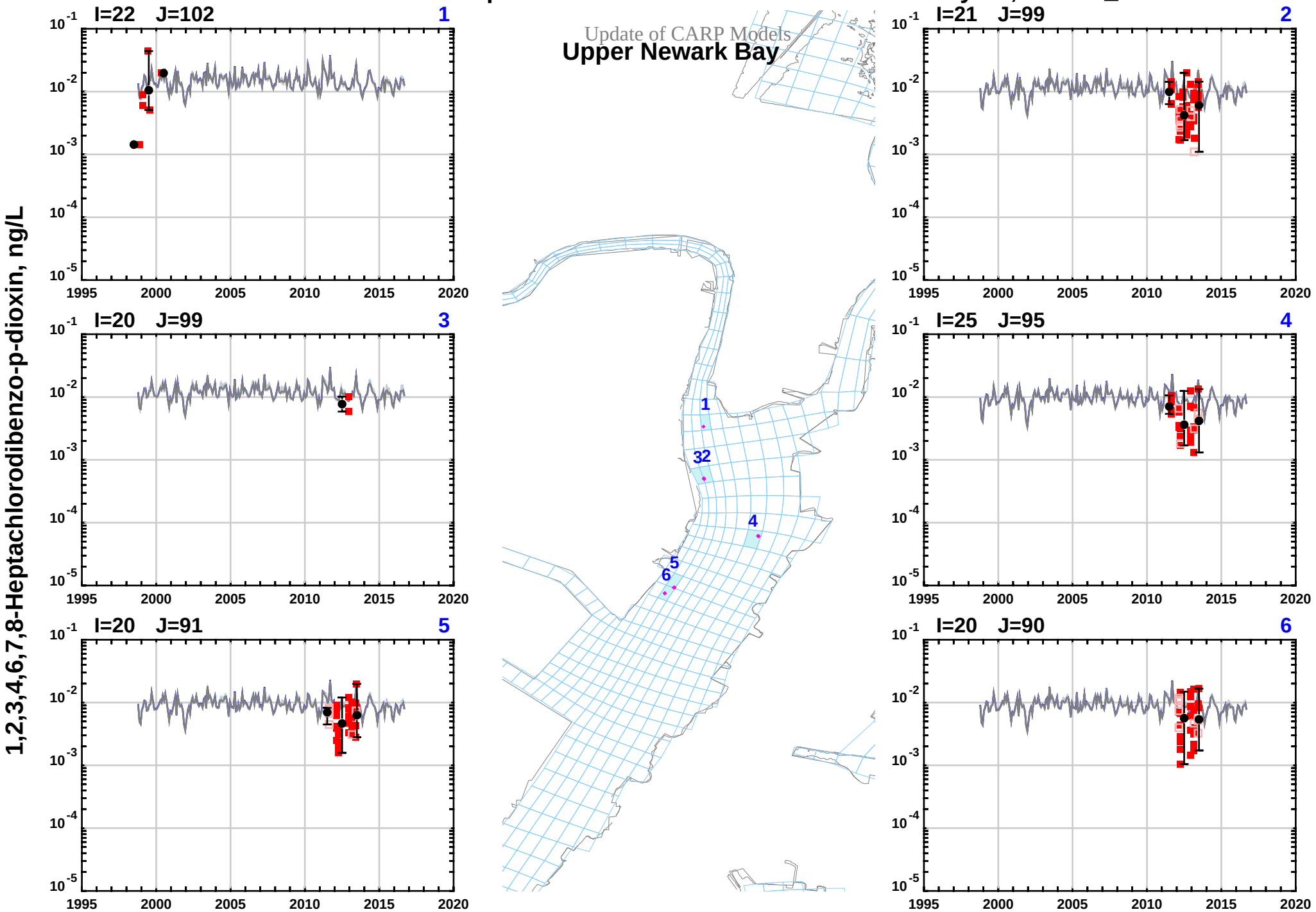

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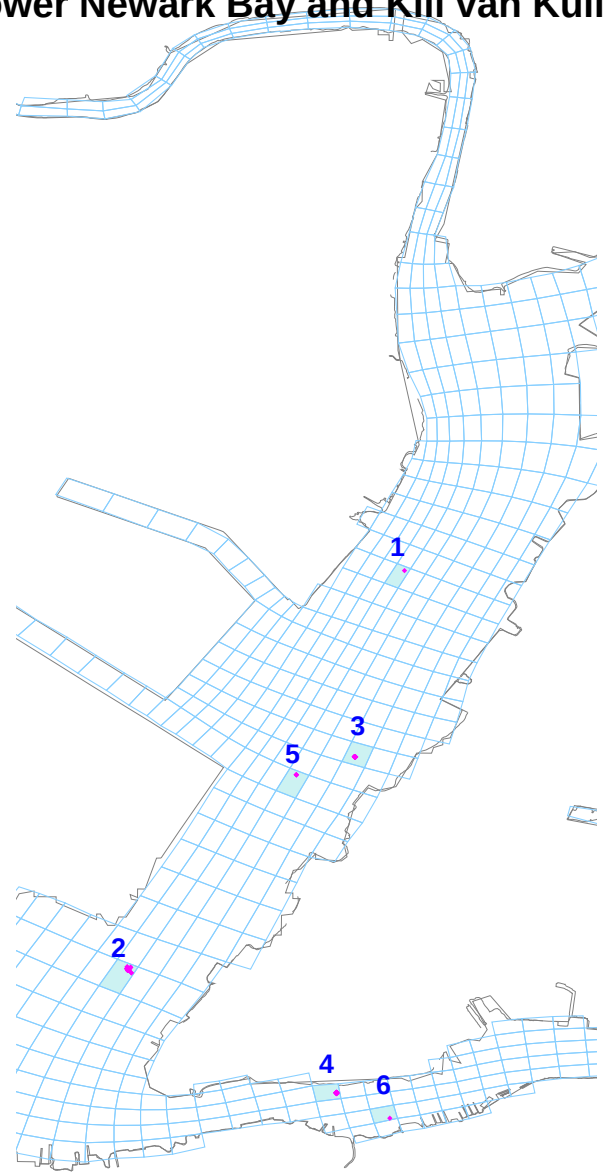
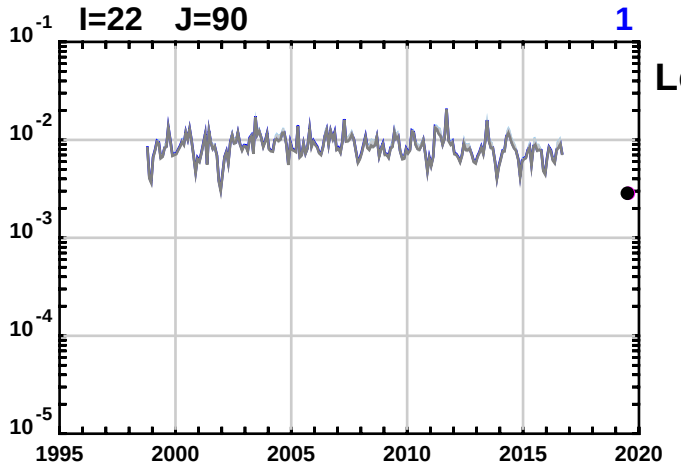
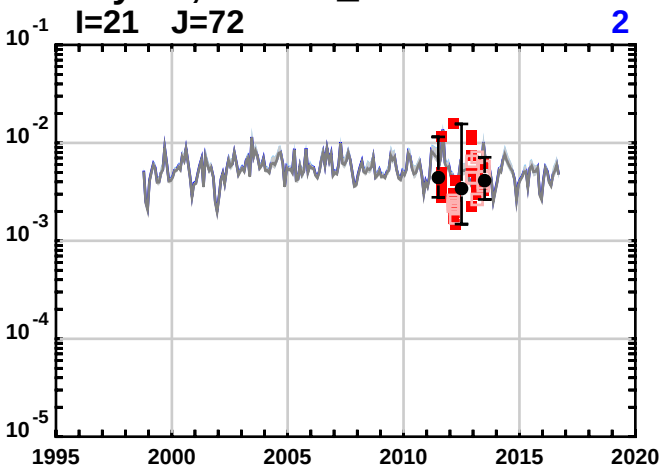
Water Column Data Comparison With Model All Water Column Layers, RUN18_S3

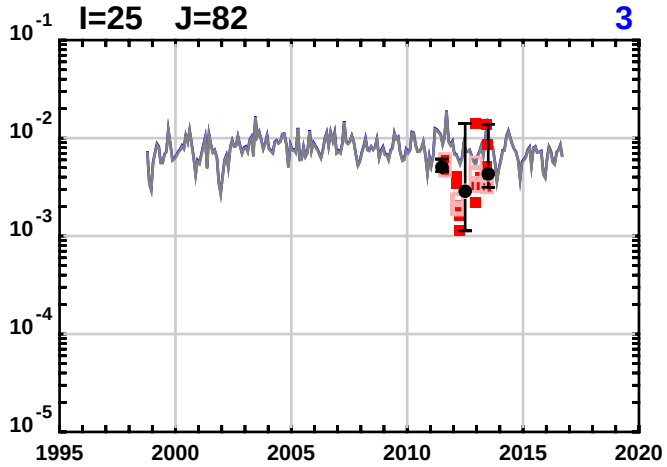
Update of CARP Models

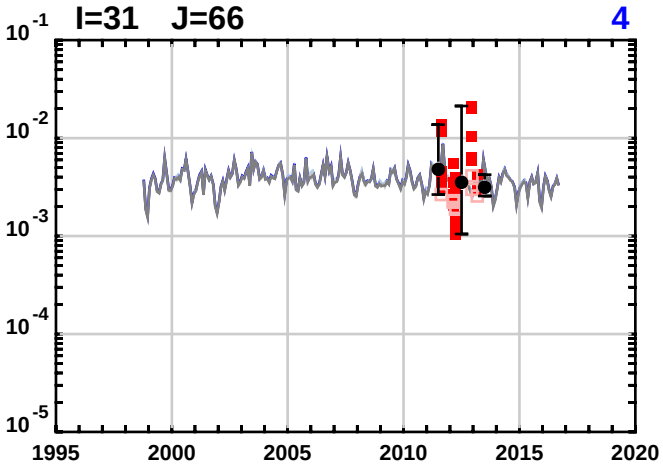
Lower Newark Bay and Kill van Kull

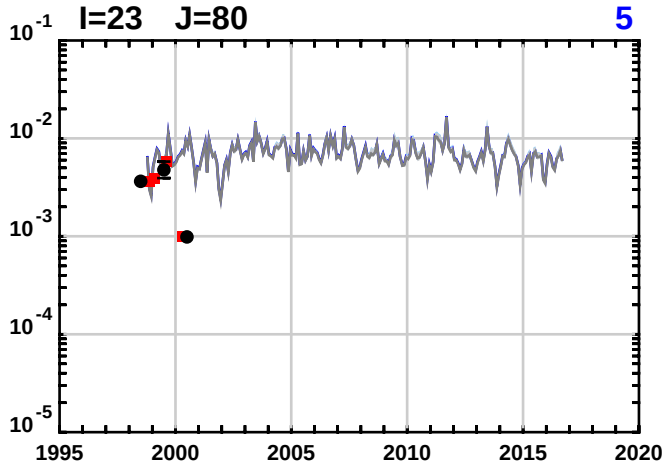


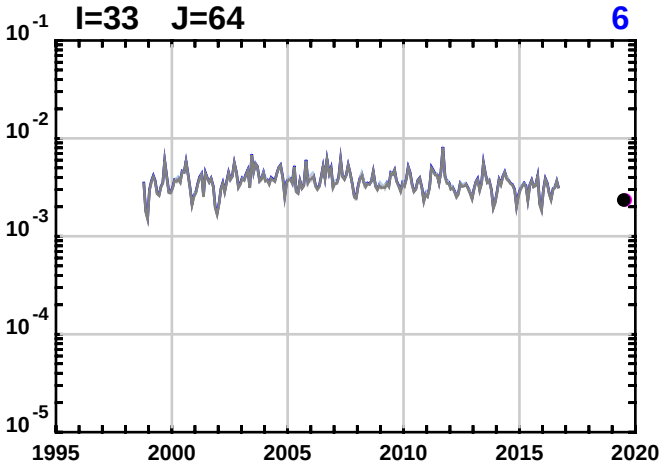












1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin, ng/L

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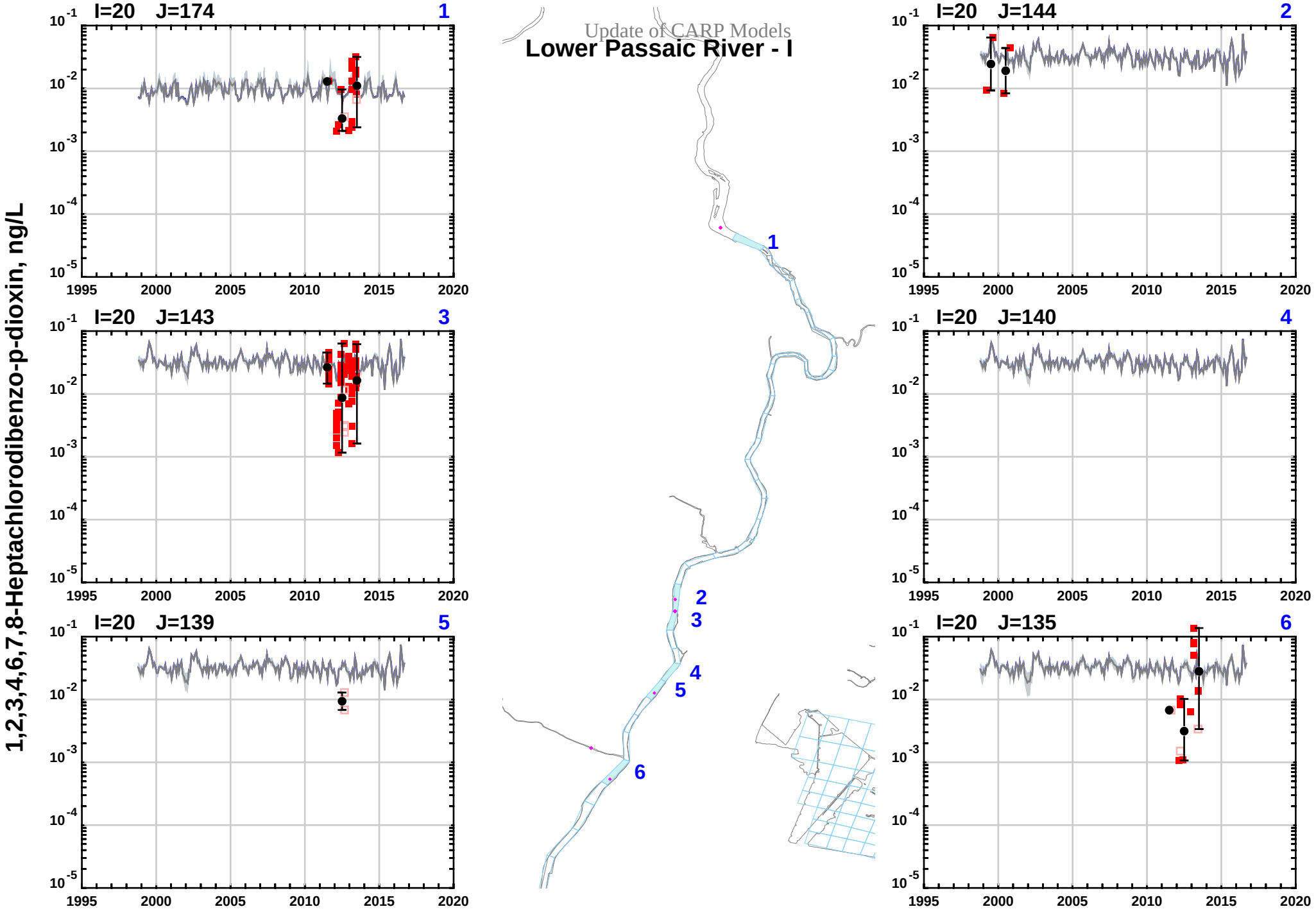
Water Column Data Comparison With Model All Water Column Layers, RUN18_S3



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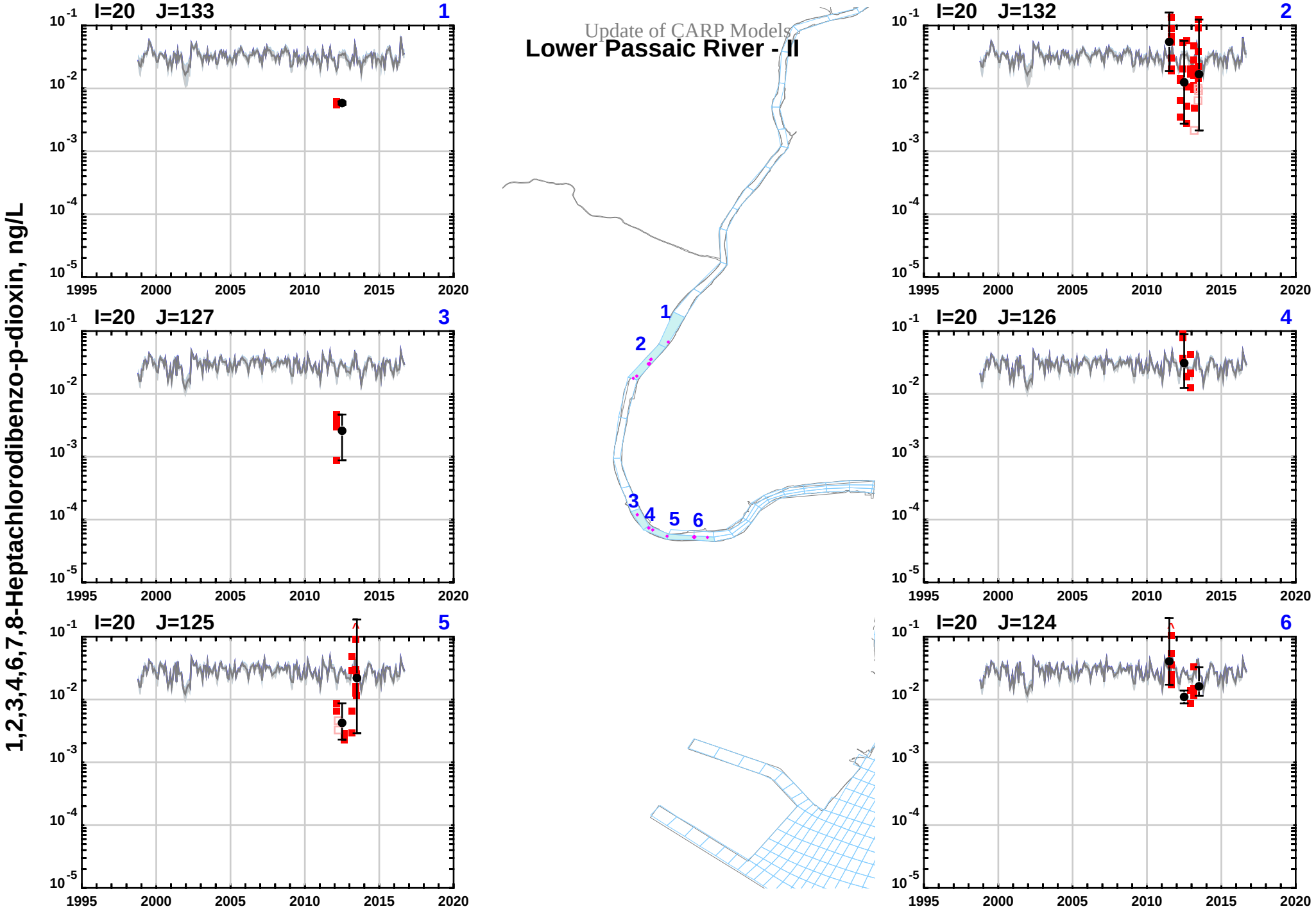

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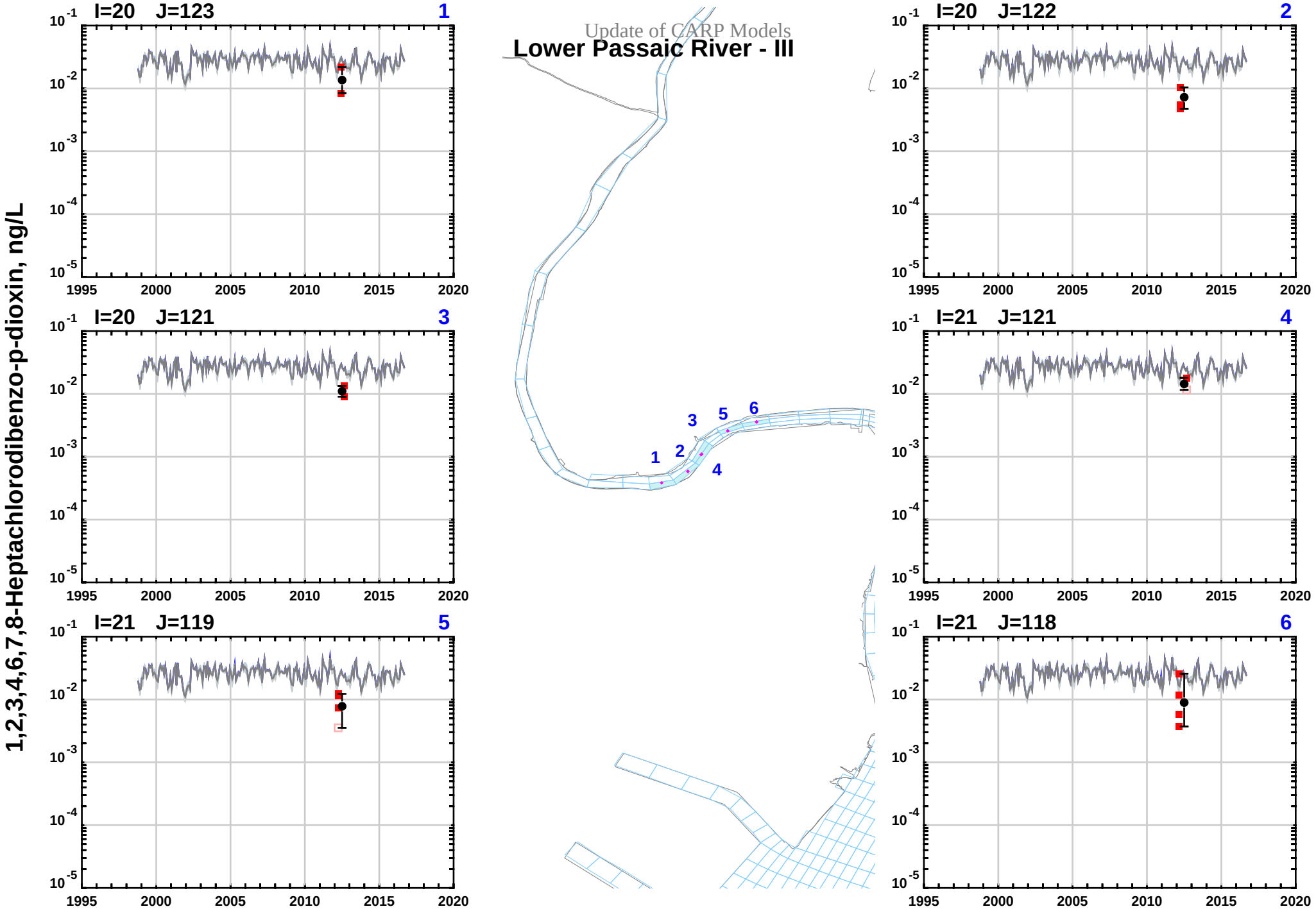

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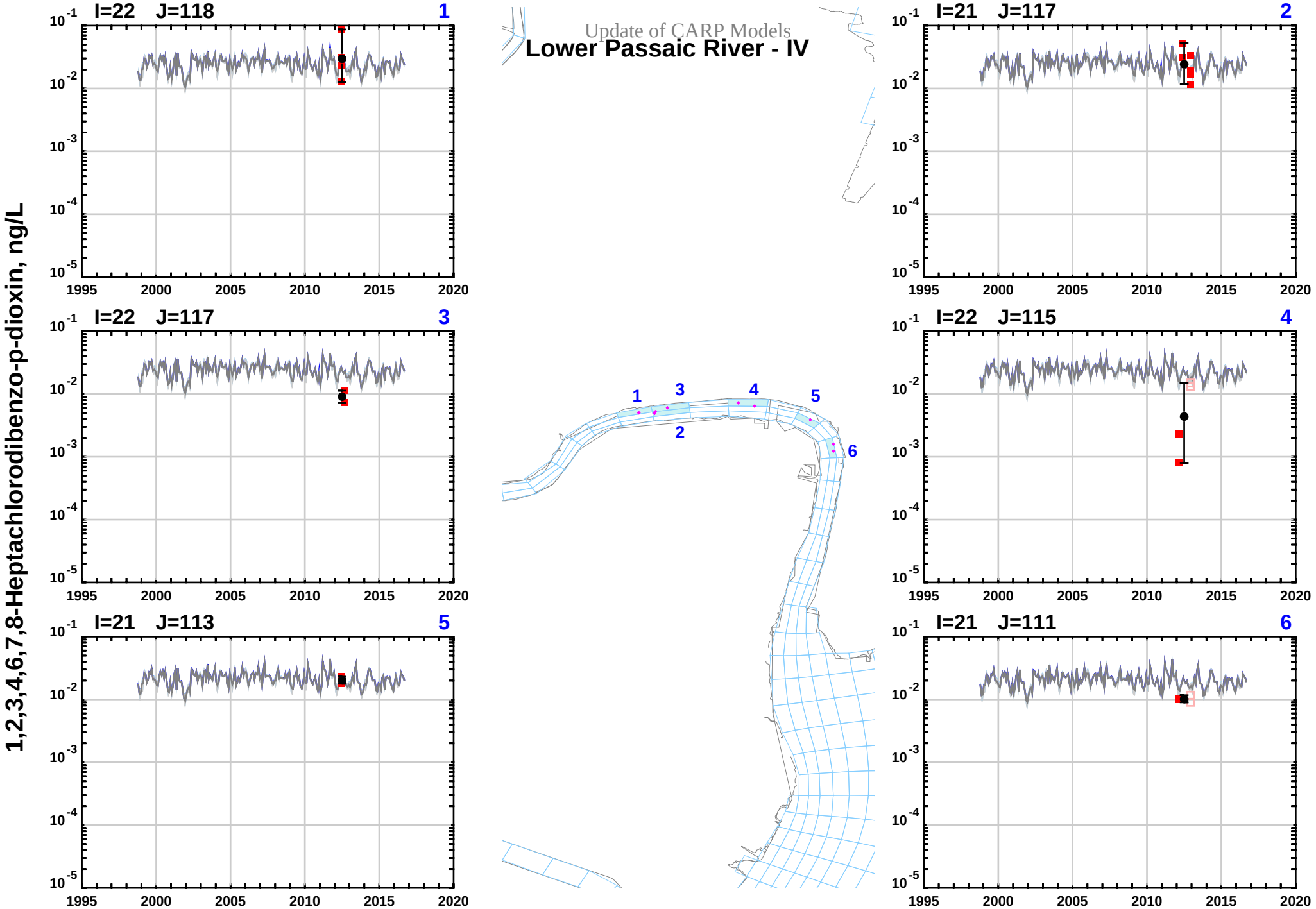
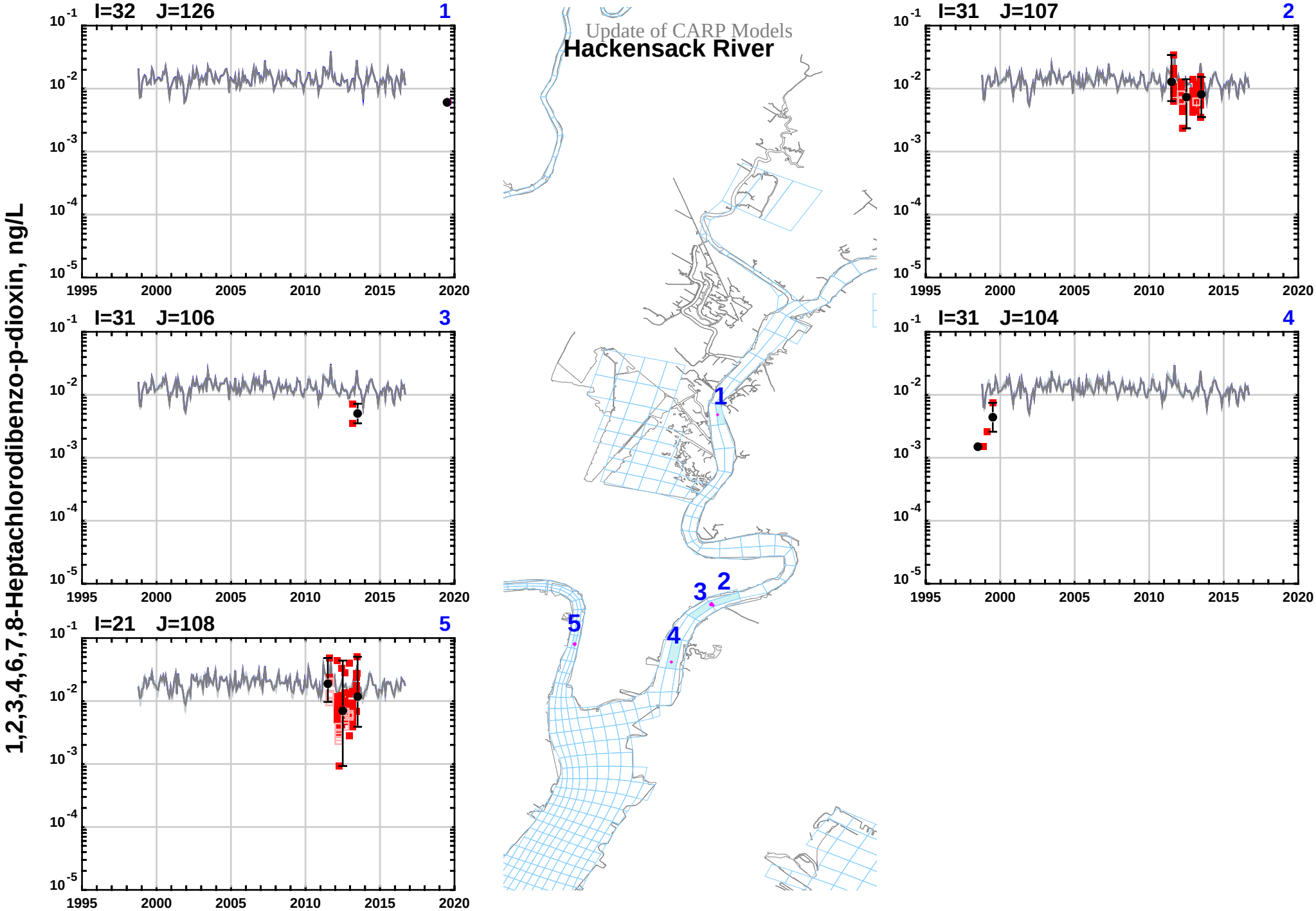


Water Column Data Comparison With Model All Water Column Layers, RUN18_S3



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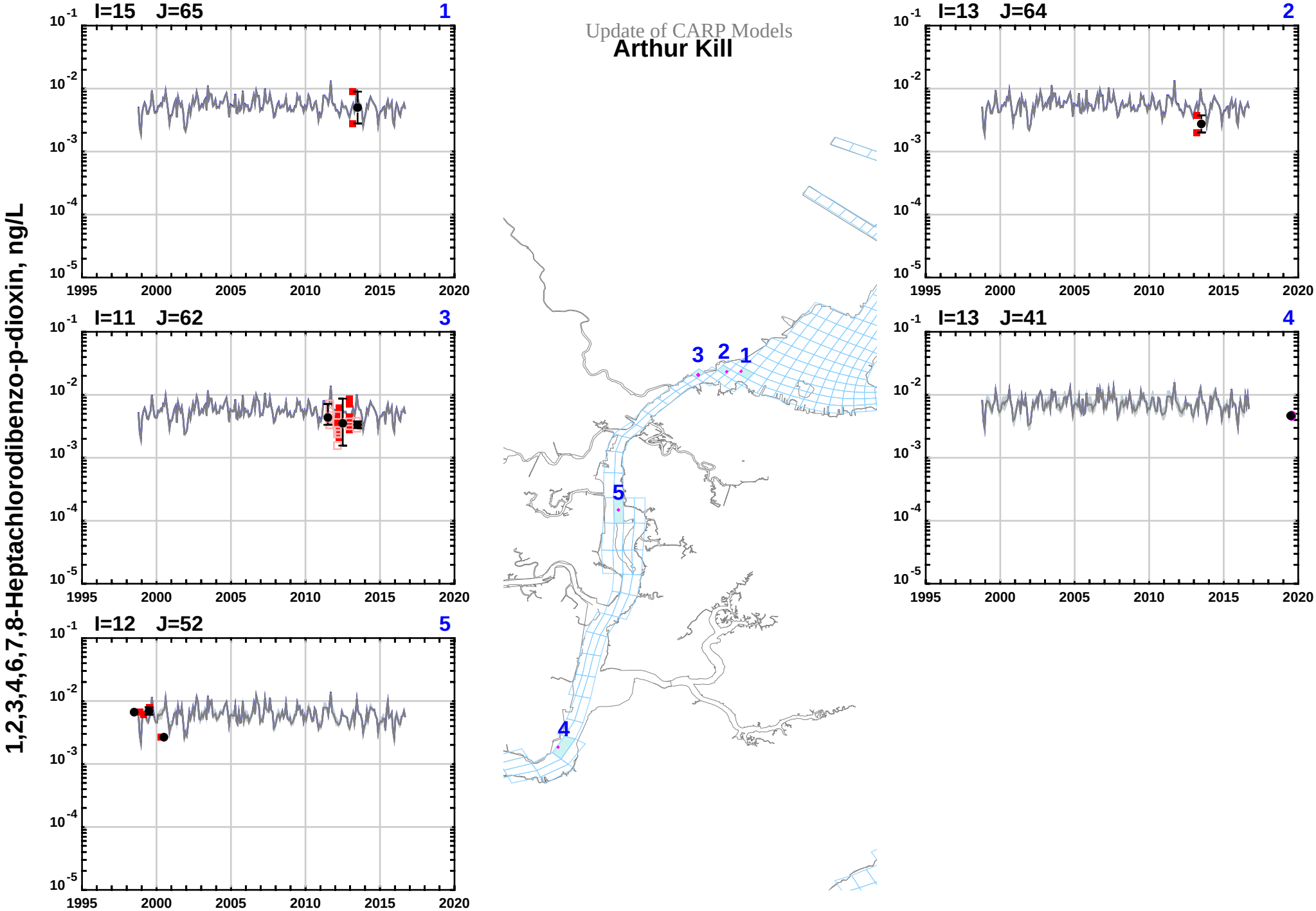
Water Column Data Comparison With Model All Water Column Layers, RUN18_S3

Update of CARP Models

Arthur Kill



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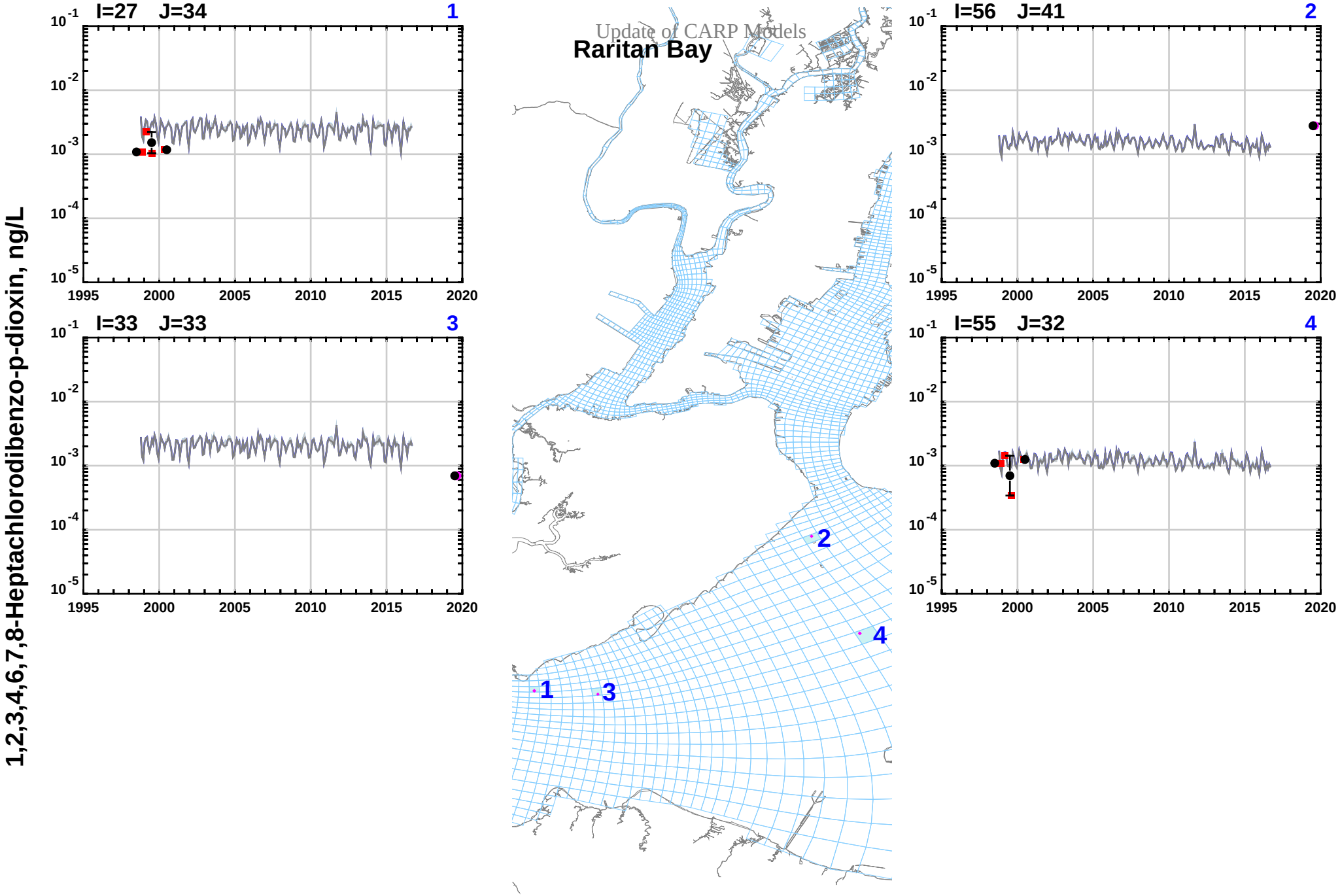

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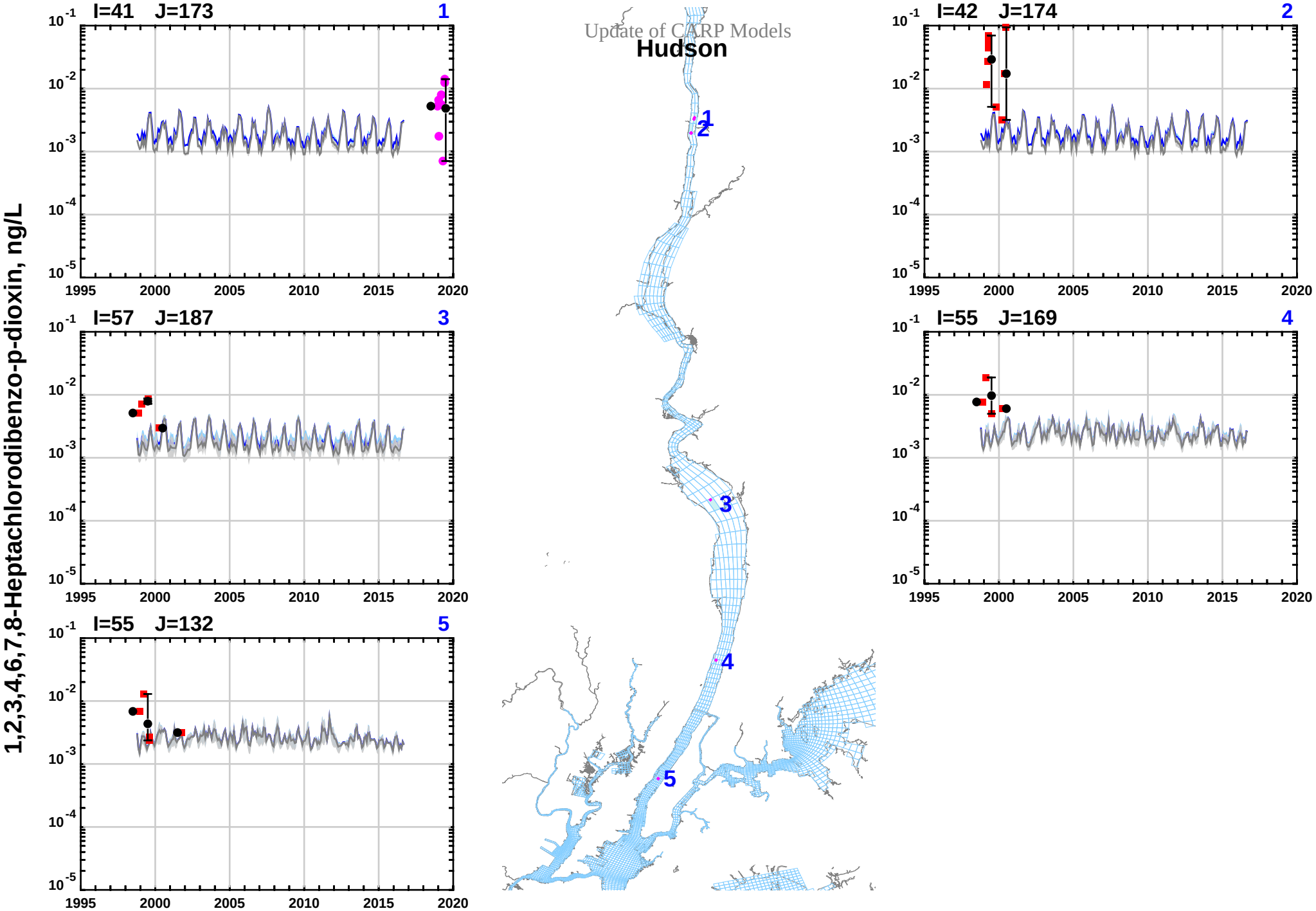

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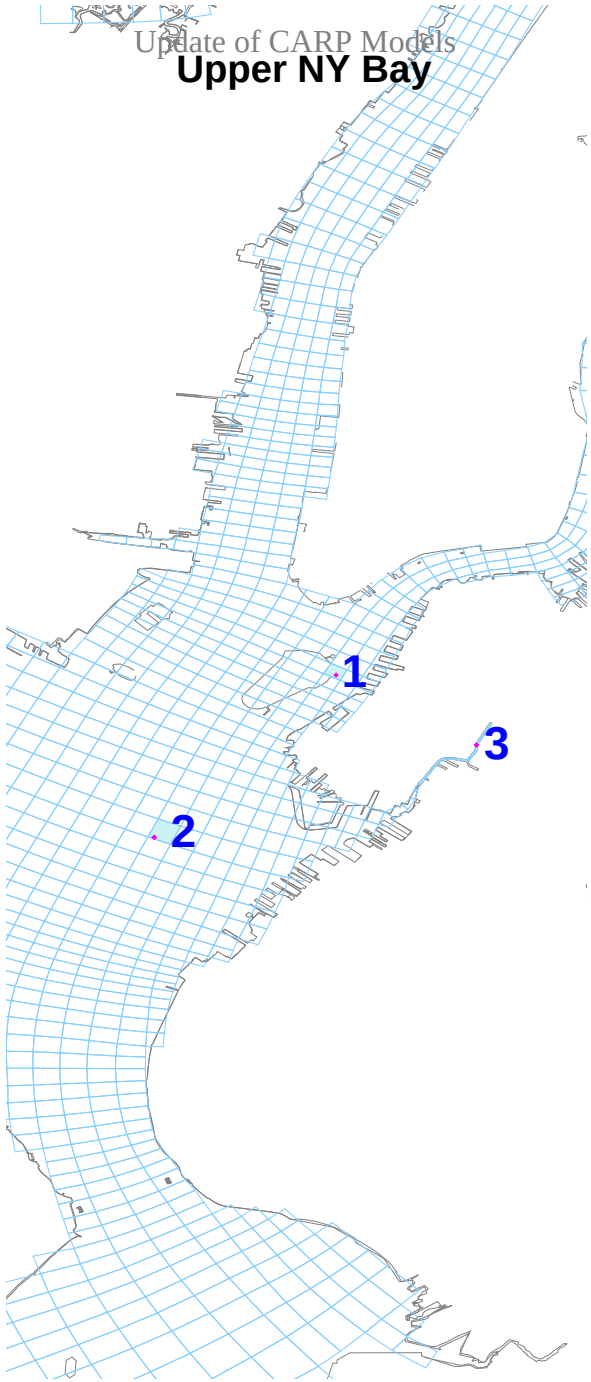
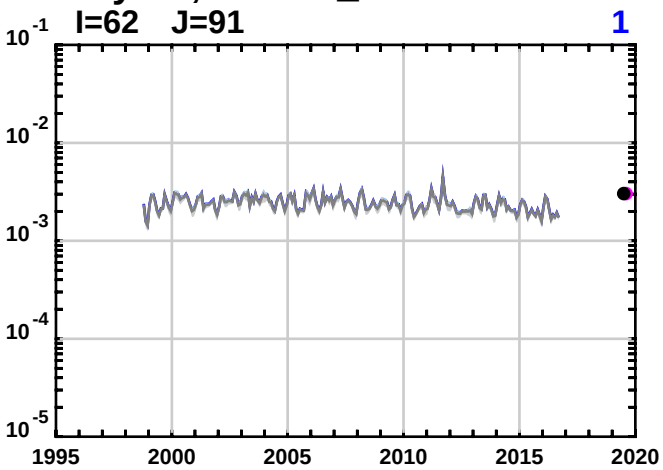
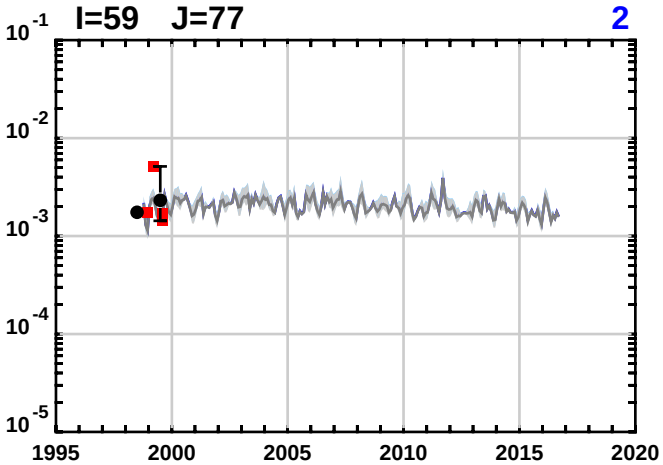
Water Column Data Comparison With Model All Water Column Layers, RUN18_S3

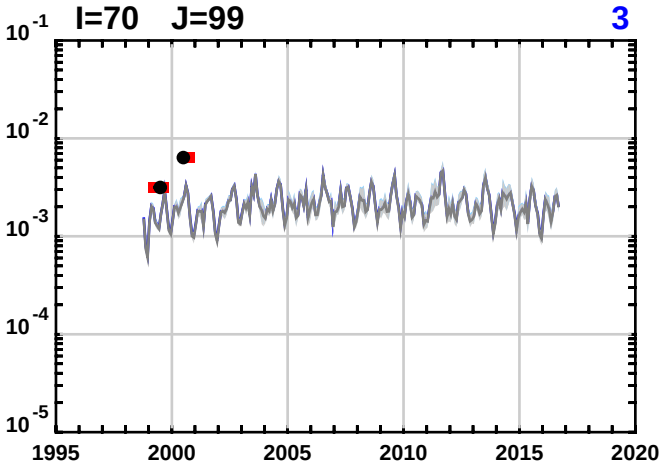
Update of CARP Models

Upper NY Bay









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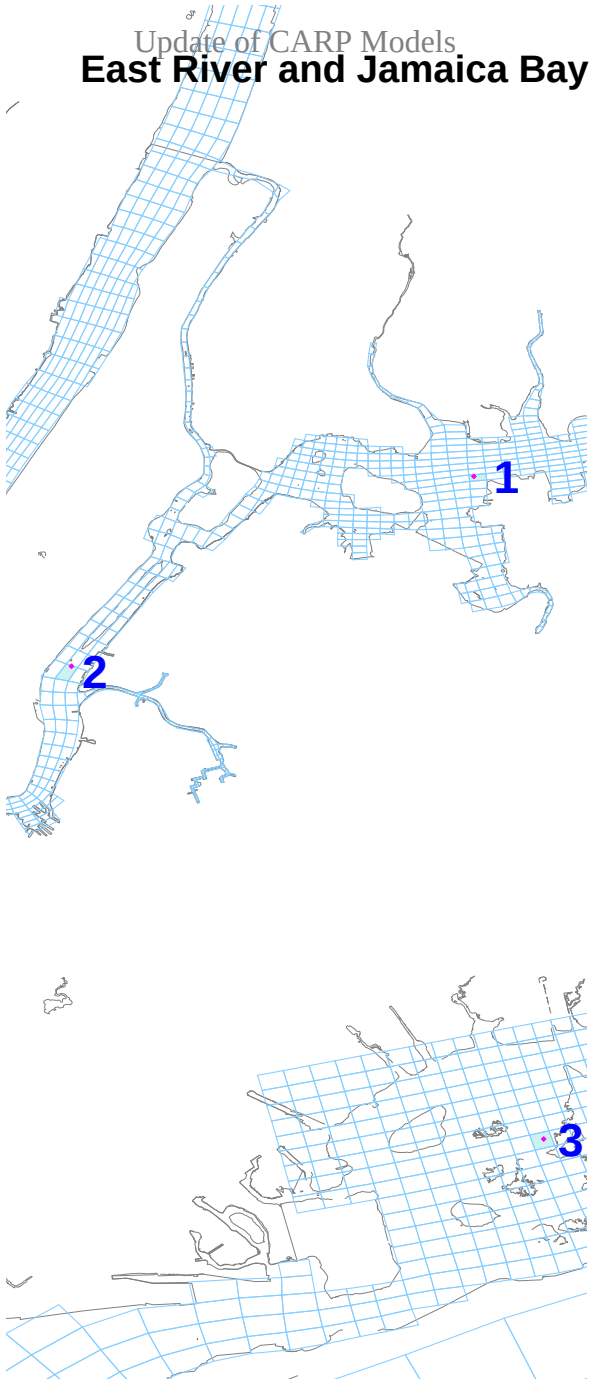
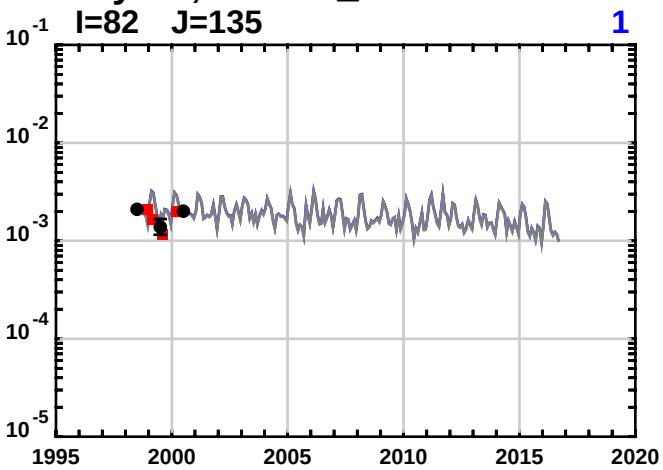
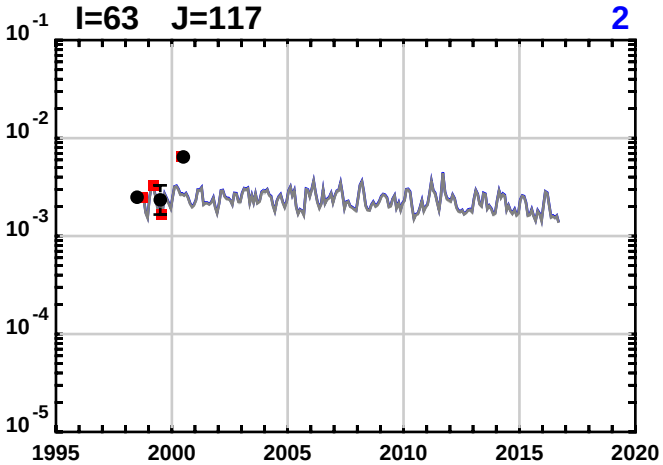
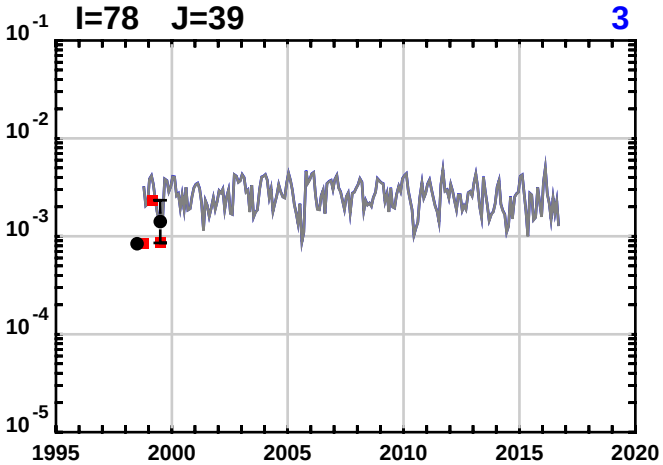
Update of CARP Models

East River and Jamaica Bay









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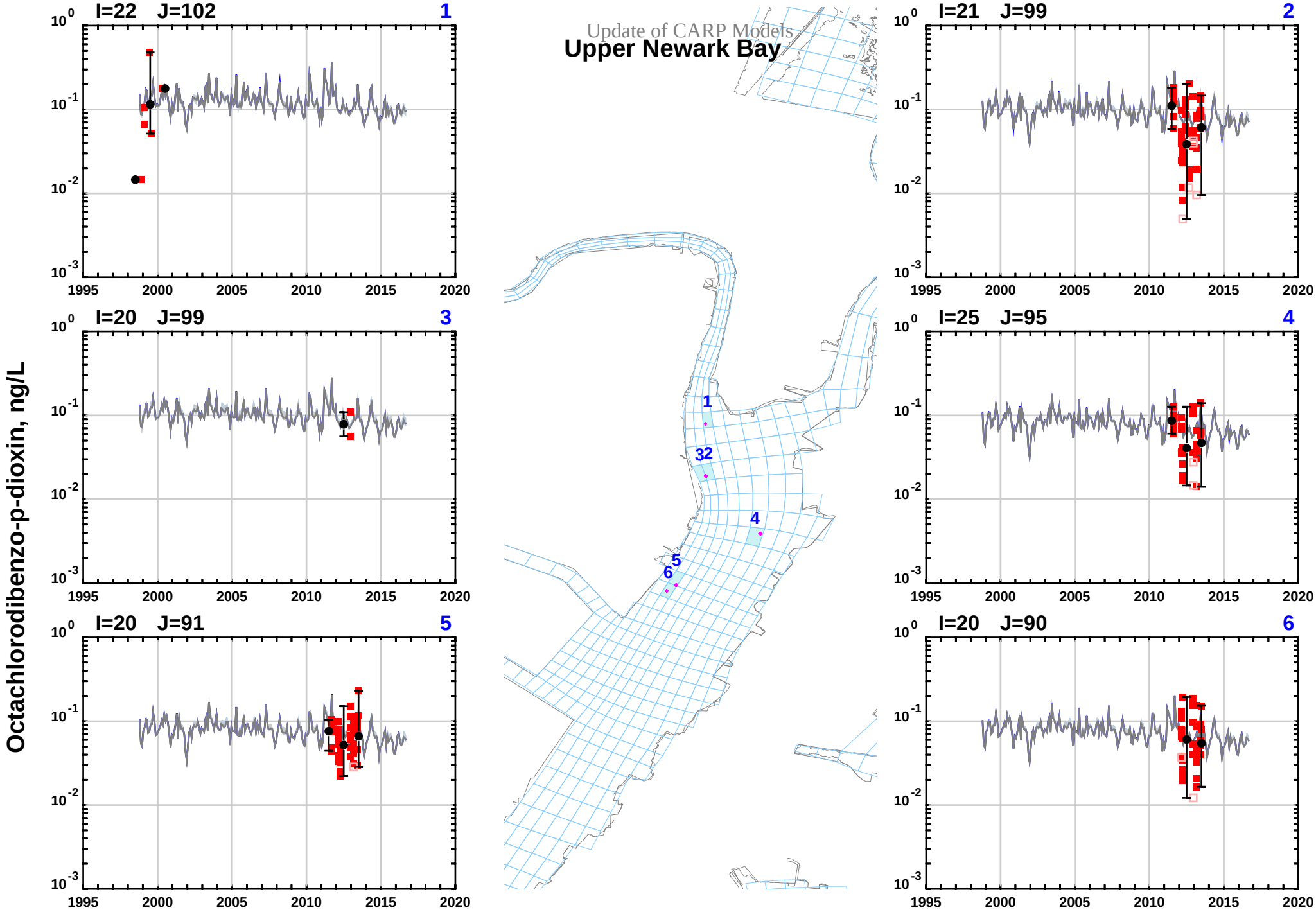

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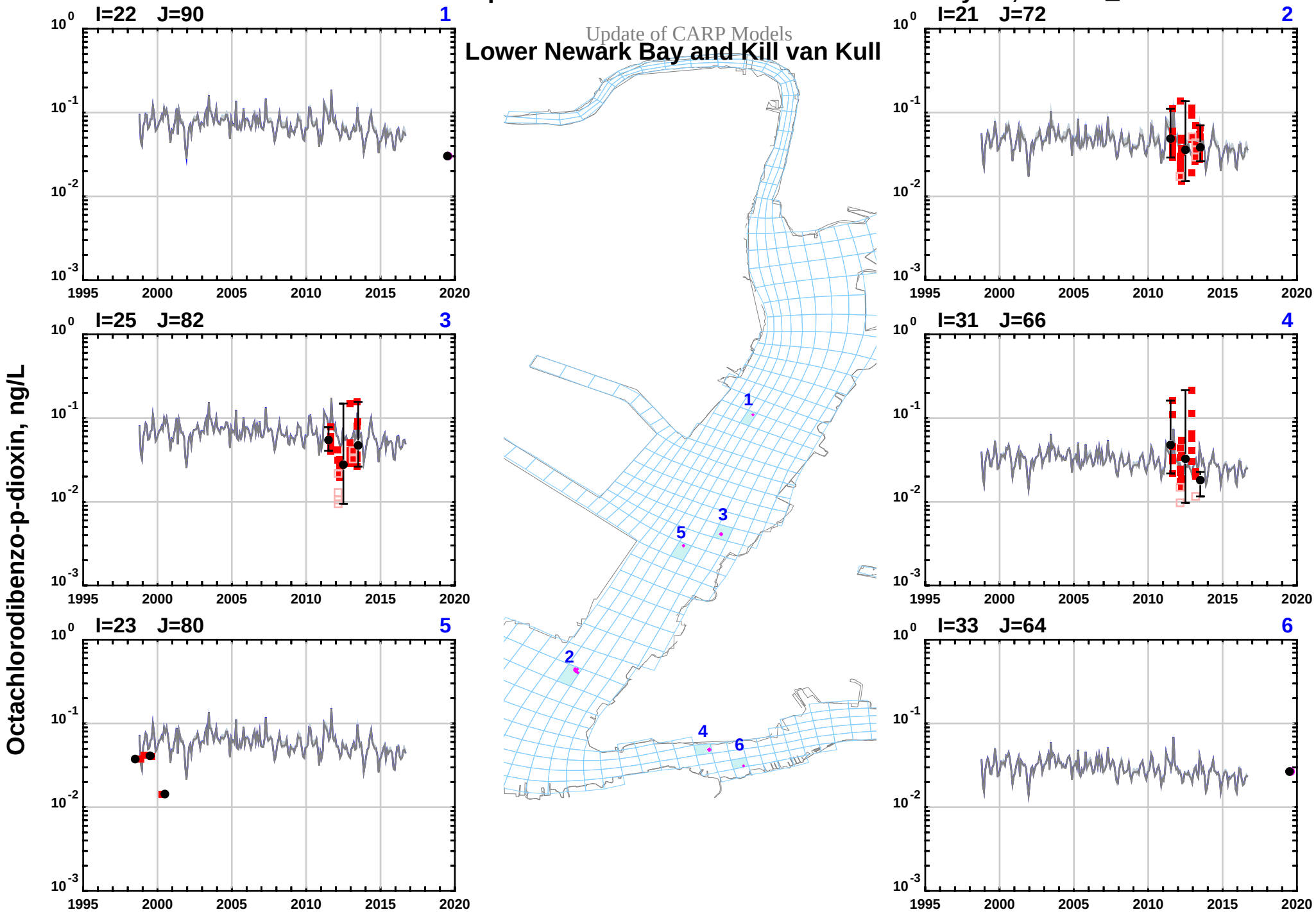

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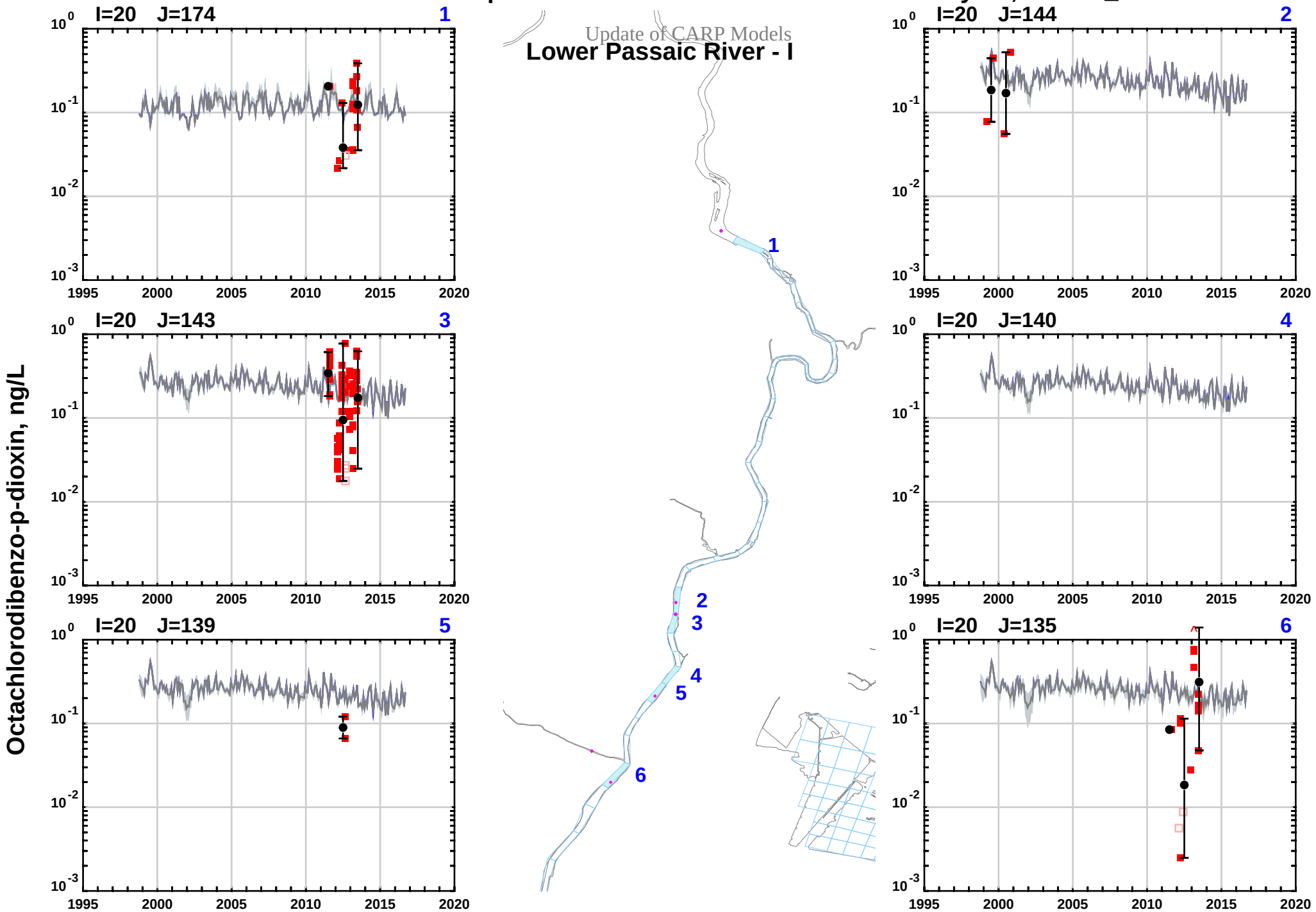
CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_S3



Detect Data Non-Detect Data

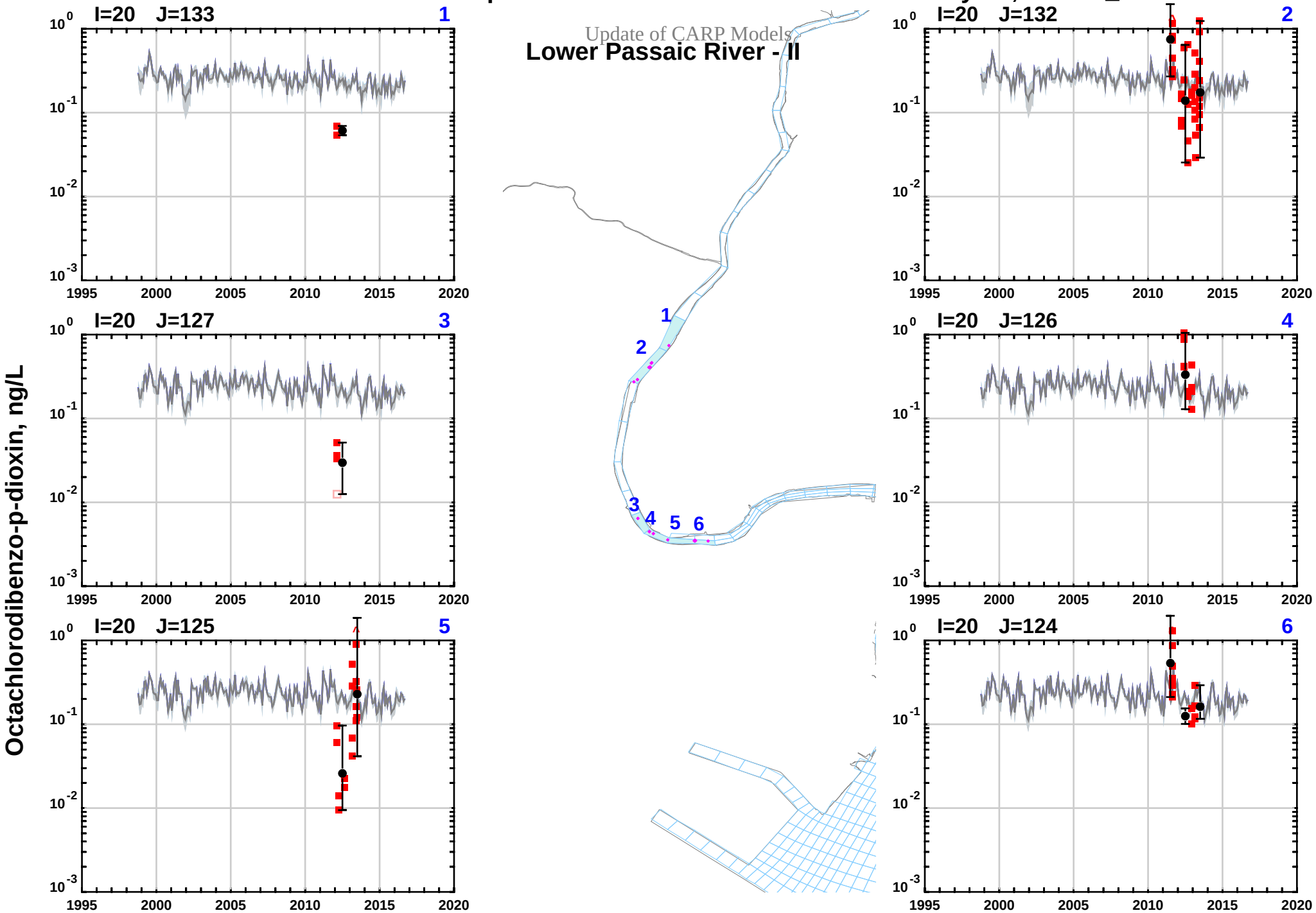
Model: mean and range of values in Water Column

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_S3



Detect Data Non-Detect Data

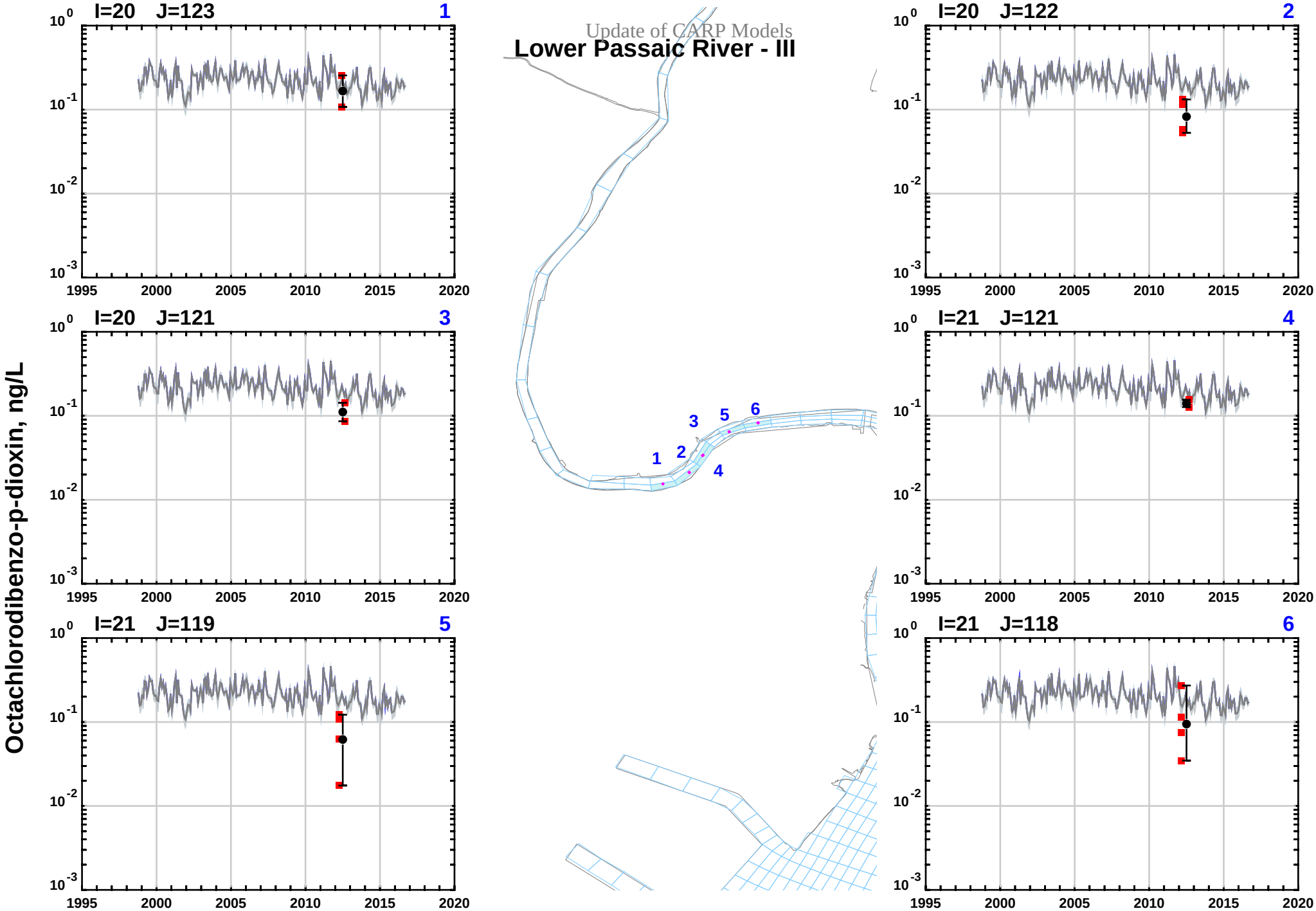
Model: mean and range of values in Water Column

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_S3



Detect Data Non-Detect Data

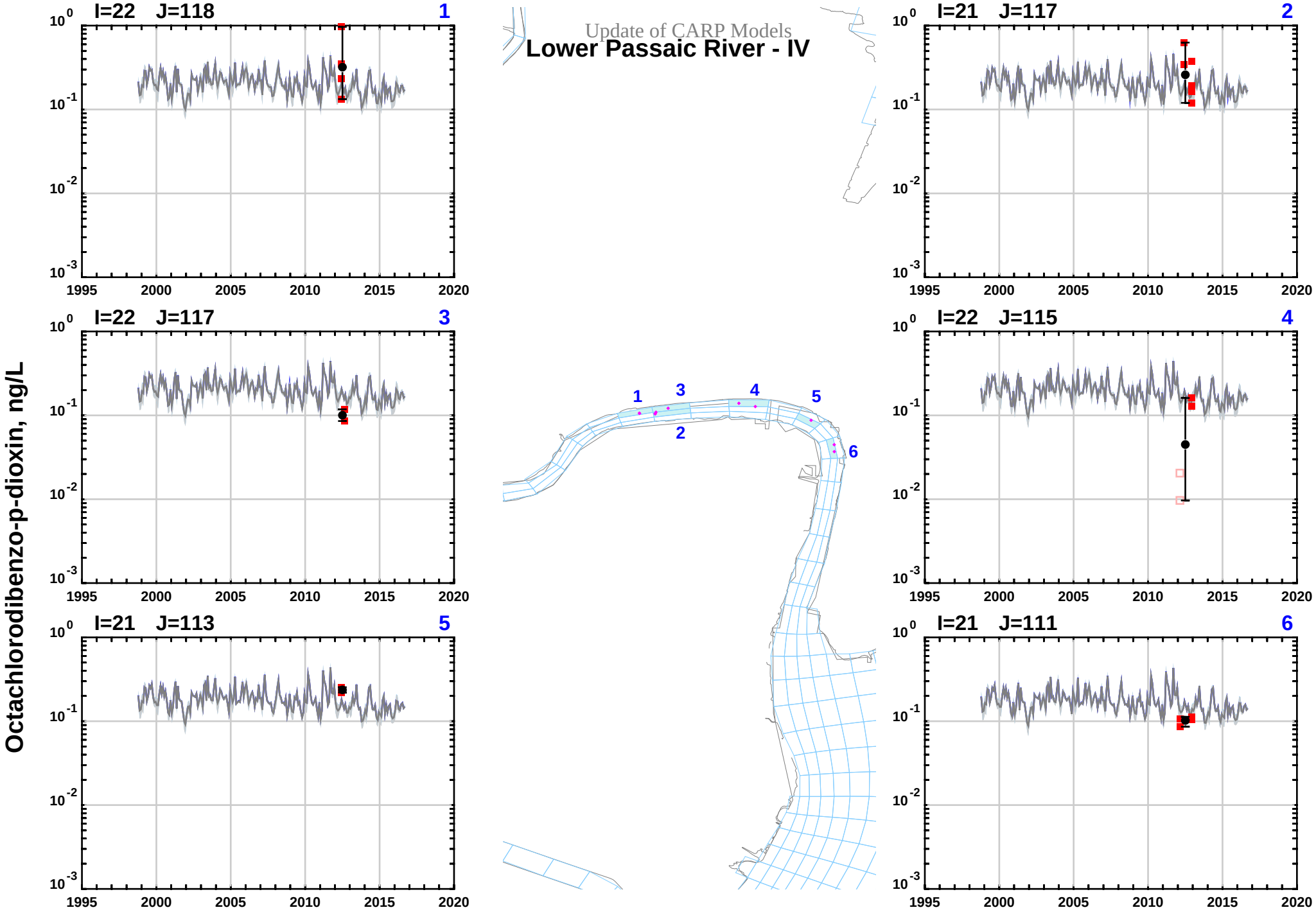
Model: mean and range of values in Water Column

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_S3



Detect Data Non-Detect Data

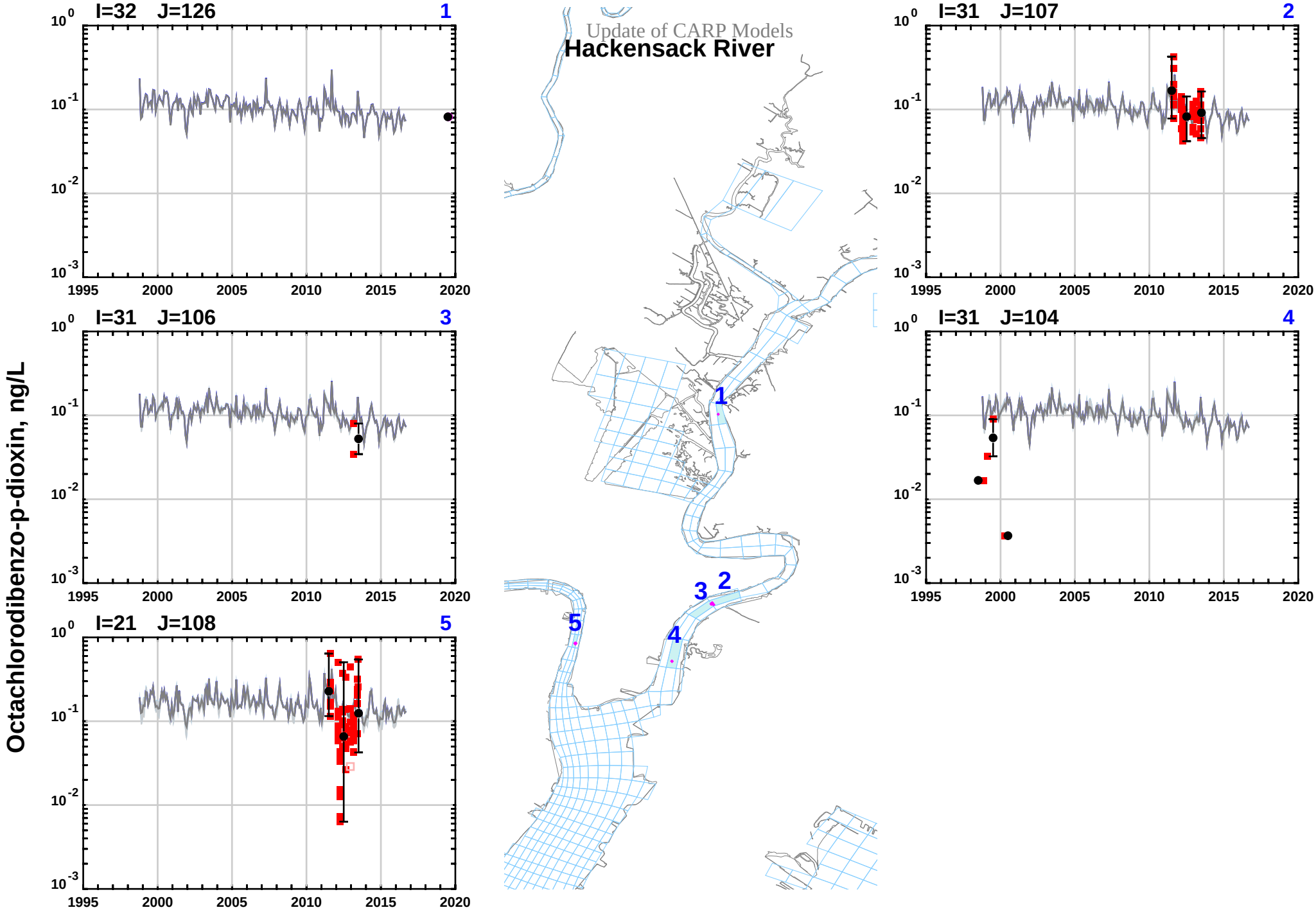
Model: mean and range of values in Water Column

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_S3



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

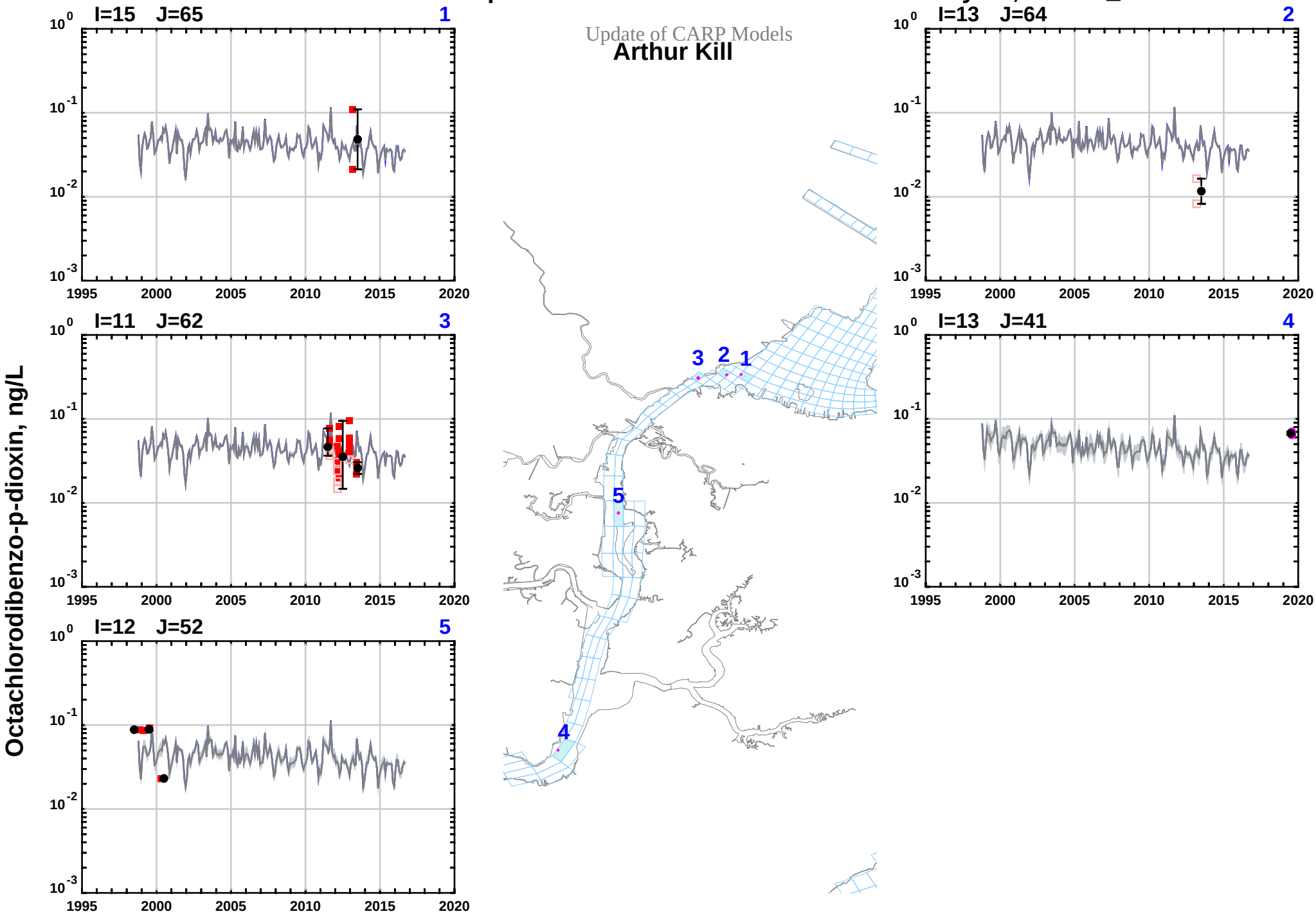
● Water Column Data: yearly mean and range

● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_S3

Update of CARP Models

Arthur Kill



Detect Data Non-Detect Data

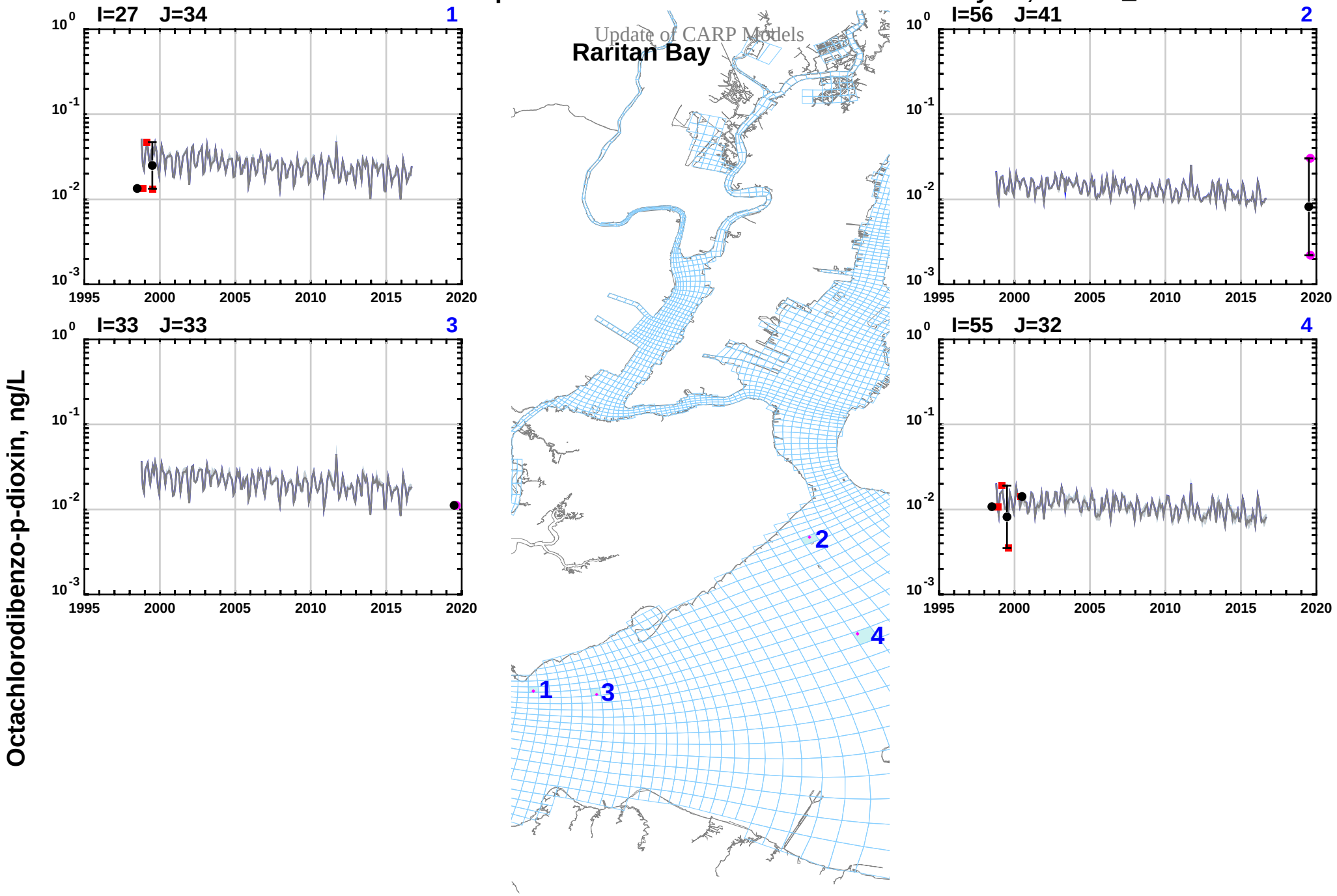
Model: mean and range of values in Water Column

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_S3



Detect Data Non-Detect Data

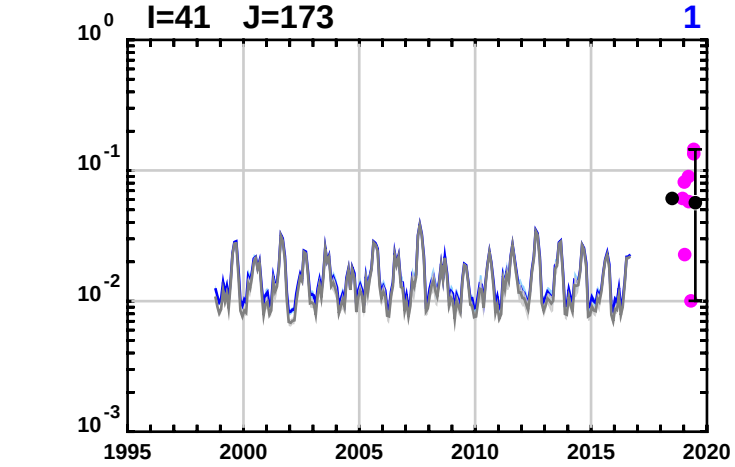
Model: mean and range of values in Water Column

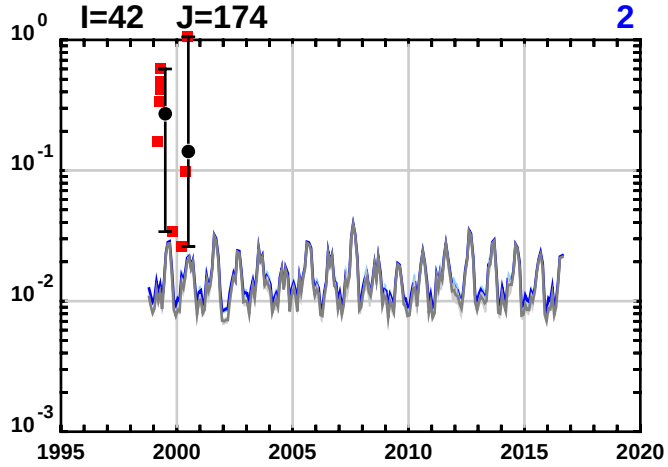
Model: Particulate Phase mean and range of values in Water Column

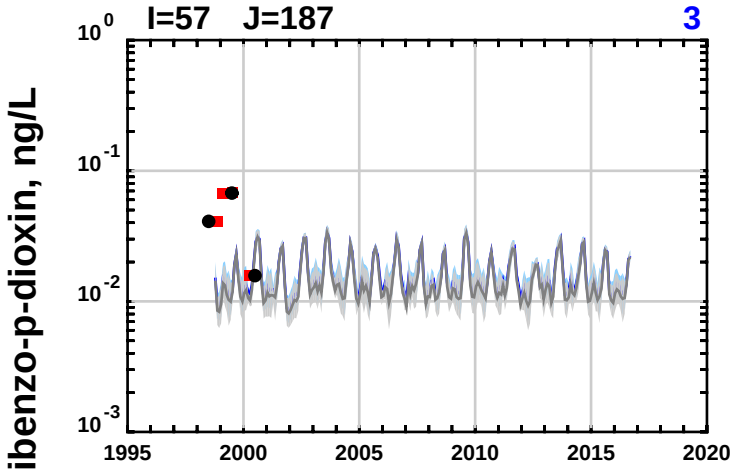
Water Column Data: yearly mean and range

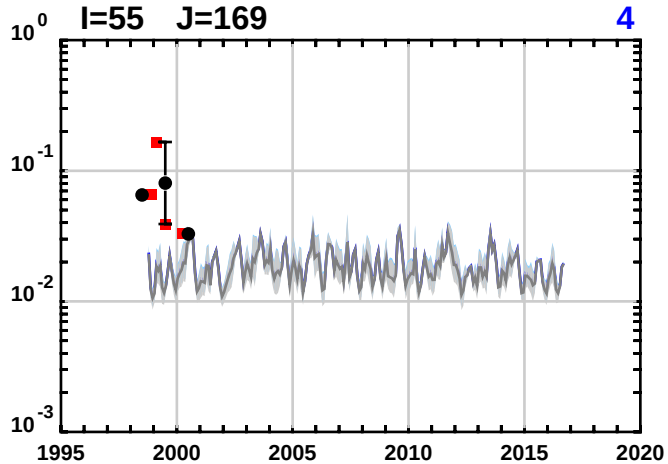
CARP2 Data

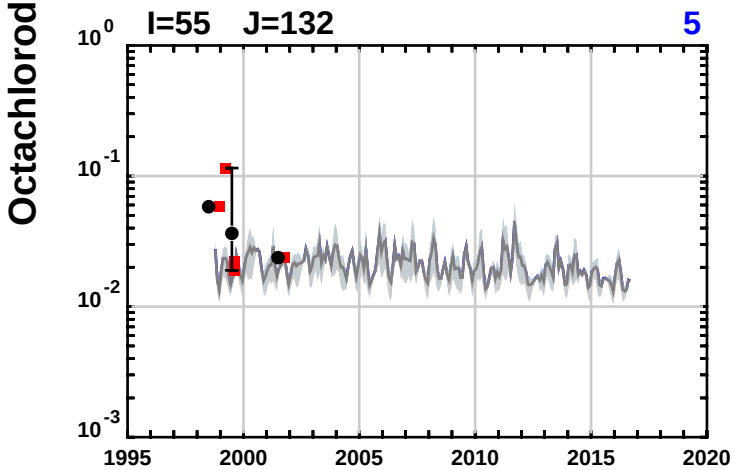
Water Column Data Comparison With Model All Water Column Layers, RUN18_S3

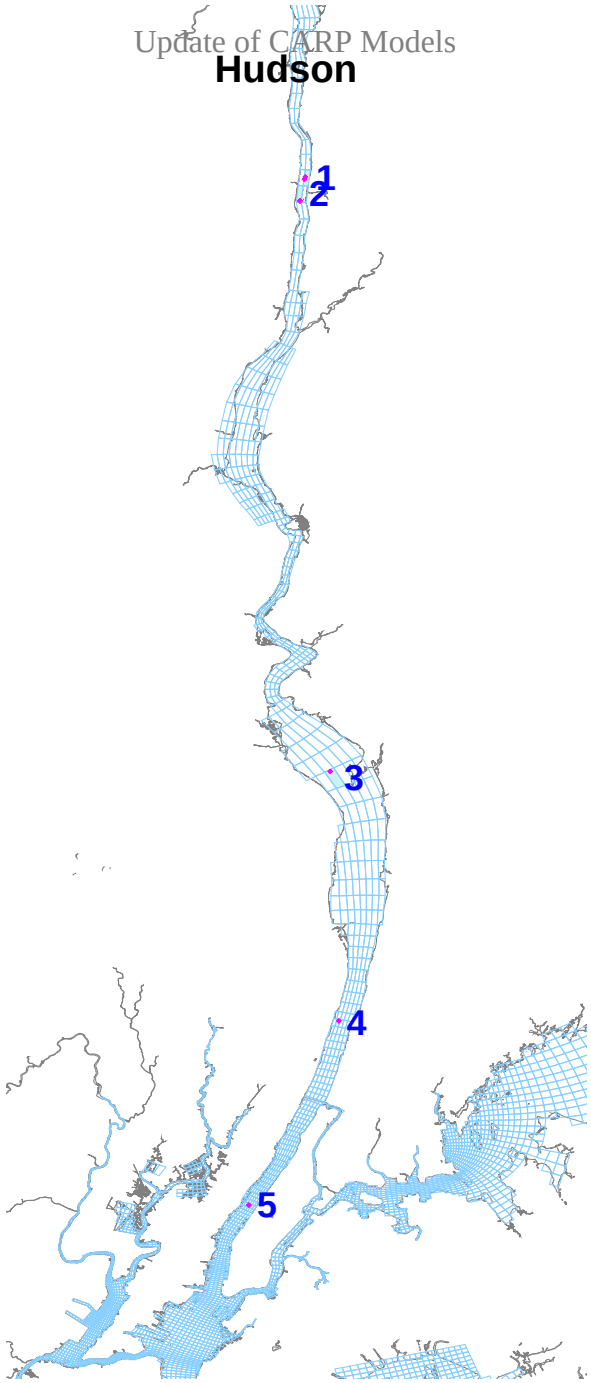












Octachlorodibenzo-p-dioxin, ng/L

Detect Data Non-Detect Data

Model: mean and range of values in Water Column

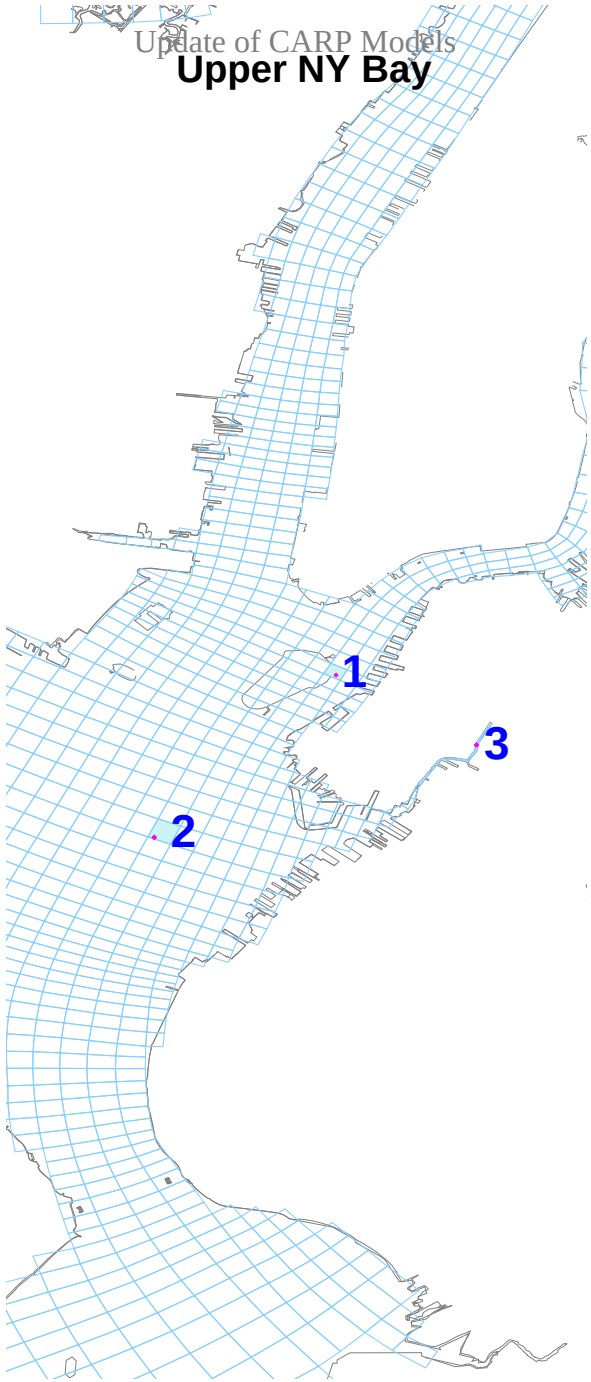
Model: Particulate Phase mean and range of values in Water Column

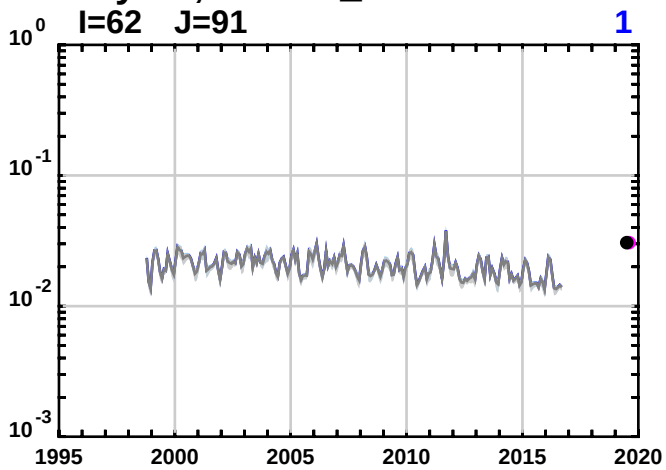
● Water Column Data: yearly mean and range

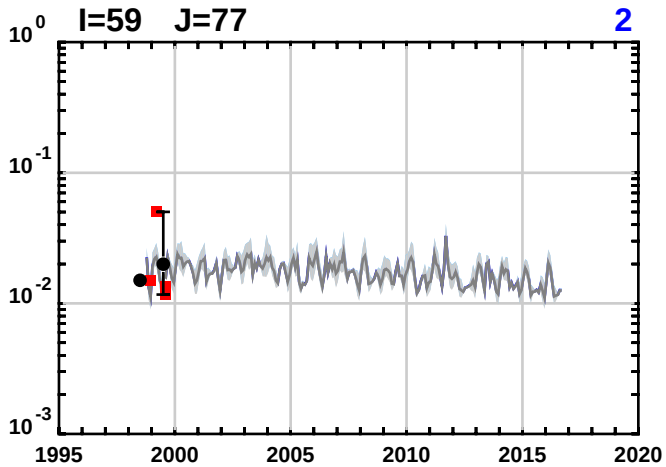
● CARP2 Data

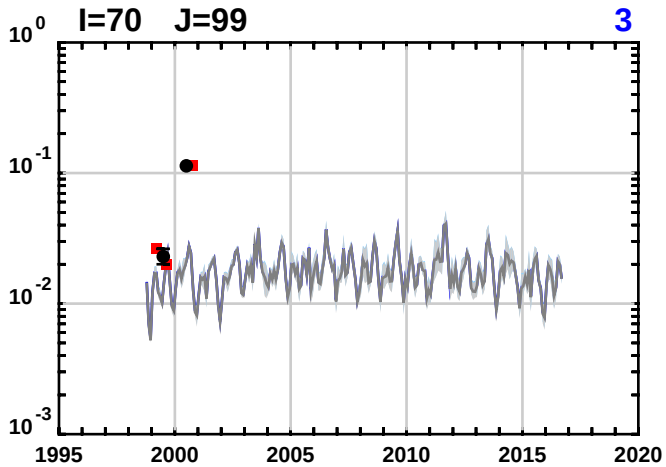
Water Column Data Comparison With Model All Water Column Layers, RUN18_S3

Octachlorodibenzo-p-dioxin, ng/L









Detect Data Non-Detect Data

Model: mean and range of values in Water Column

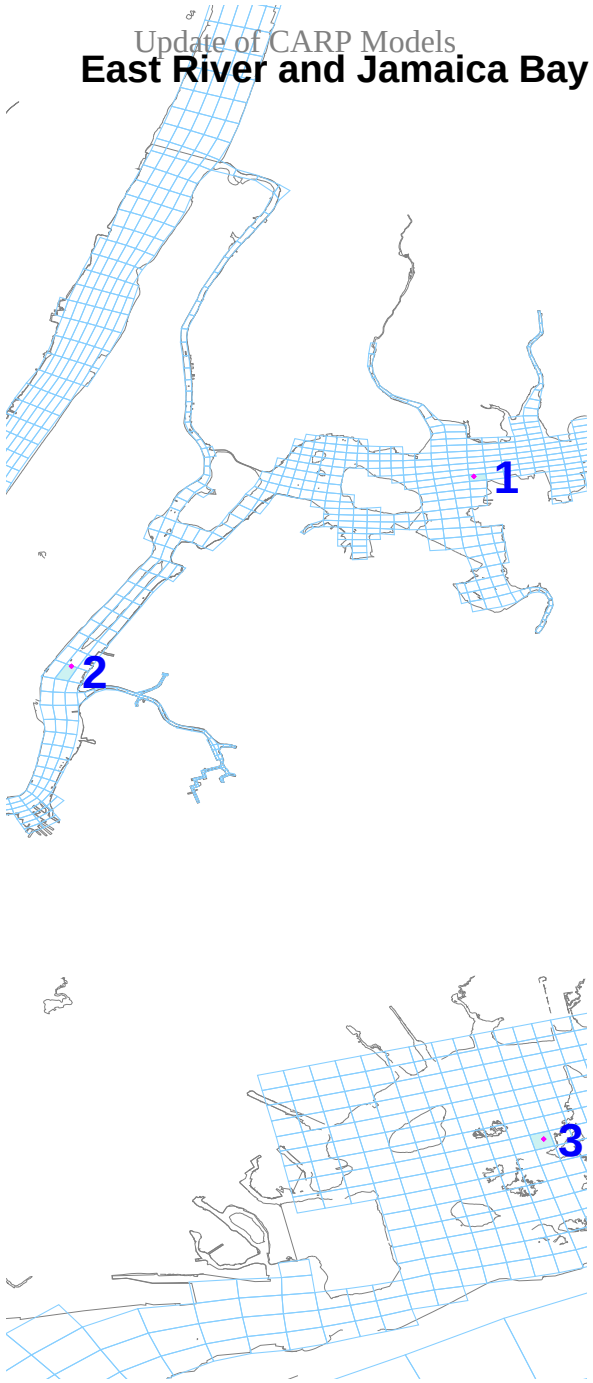
Model: Particulate Phase mean and range of values in Water Column

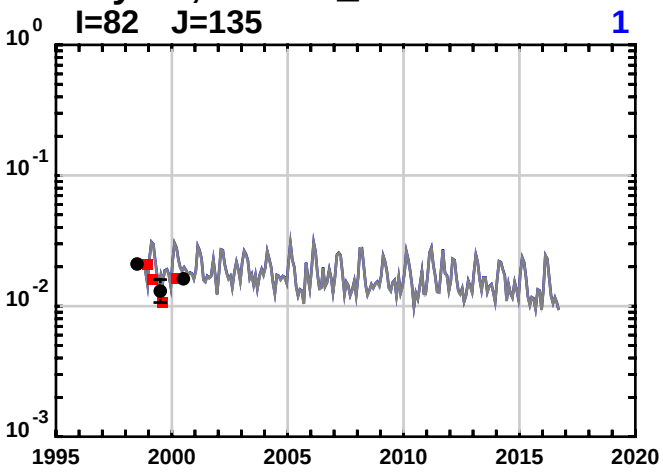
● Water Column Data: yearly mean and range

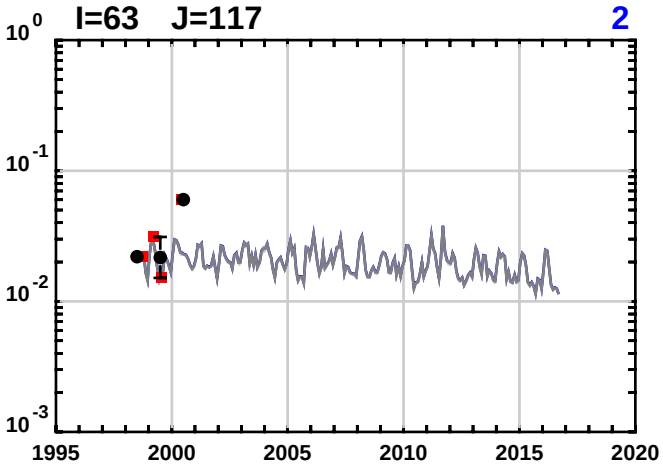
● CARP2 Data

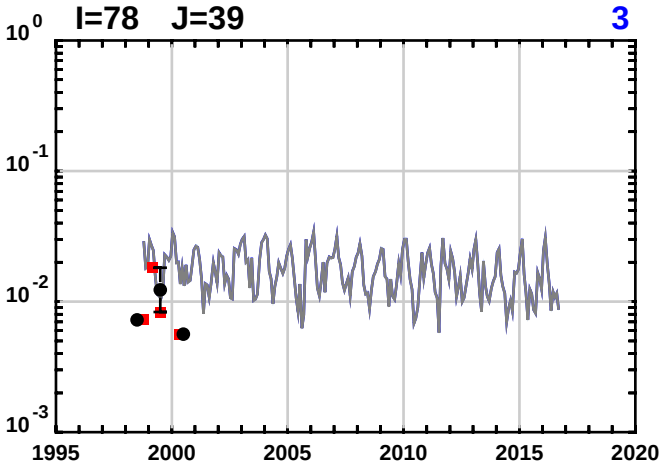
Water Column Data Comparison With Model All Water Column Layers, RUN18_S3

East River and Jamaica Bay









Octachlorodibenzo-p-dioxin, ng/L

Detect Data Non-Detect Data

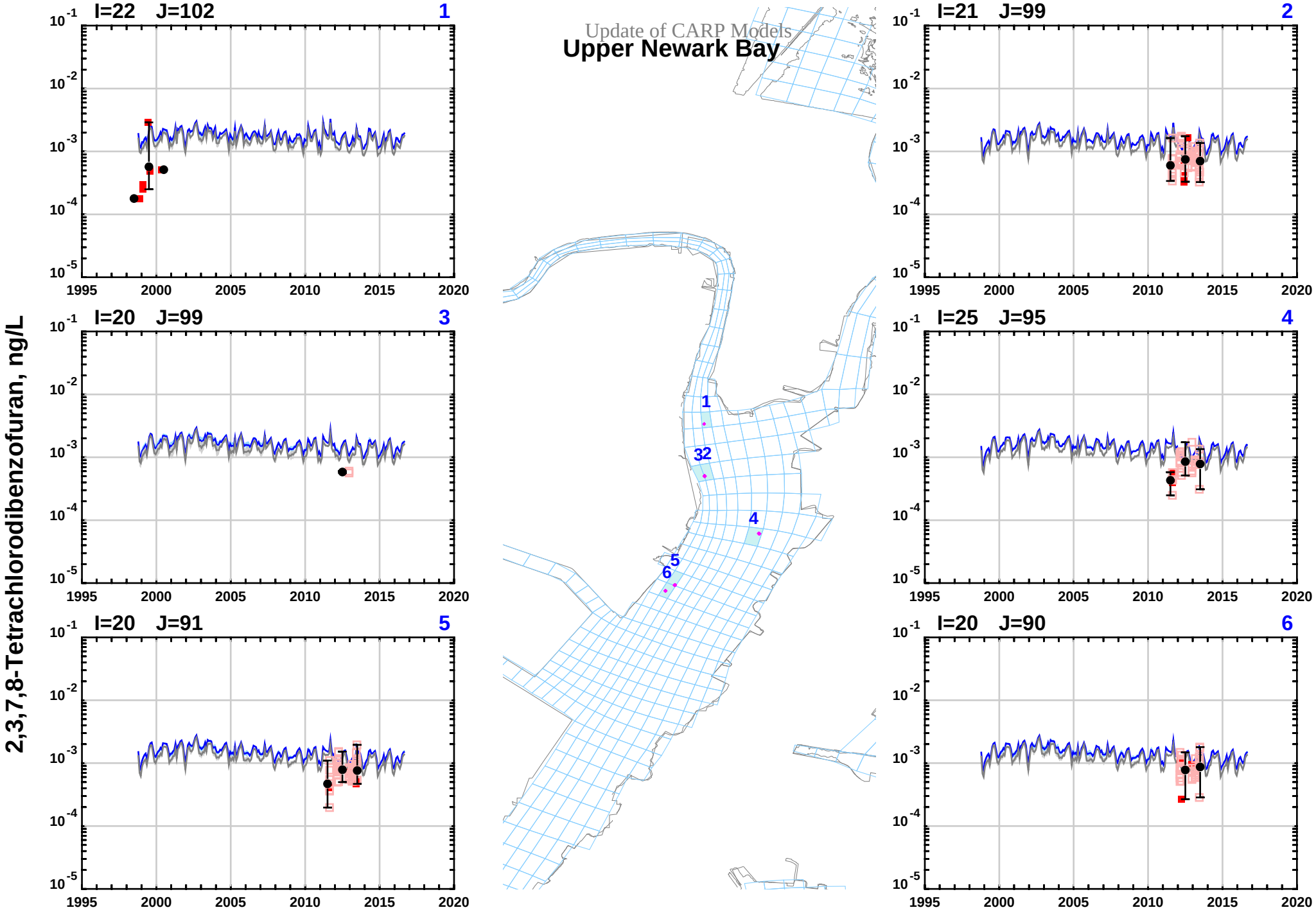
Model: mean and range of values in Water Column

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_S5_R2



Detect Data Non-Detect Data

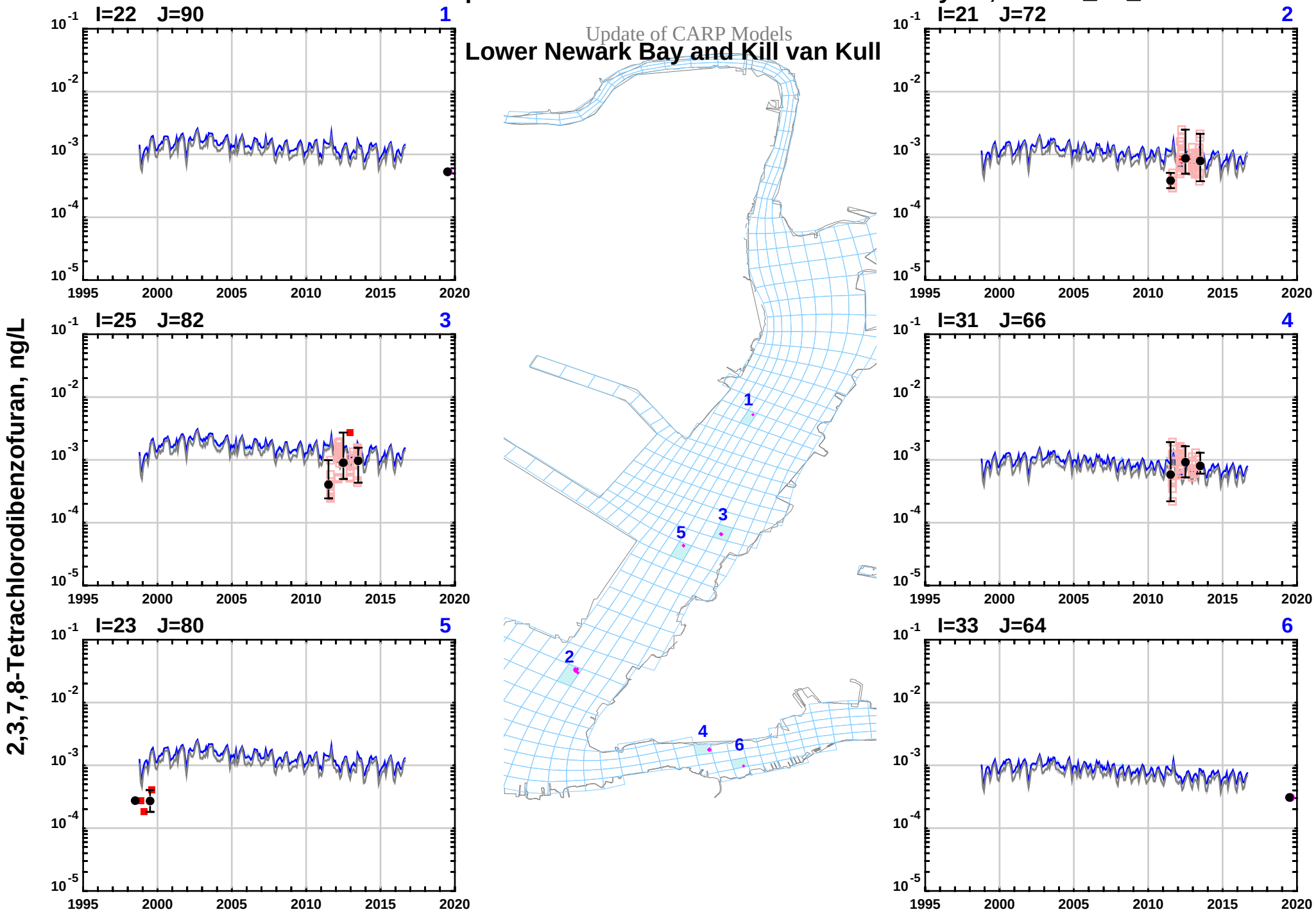
Model: mean and range of values in Water Column

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_S5_R2



Detect Data Non-Detect Data

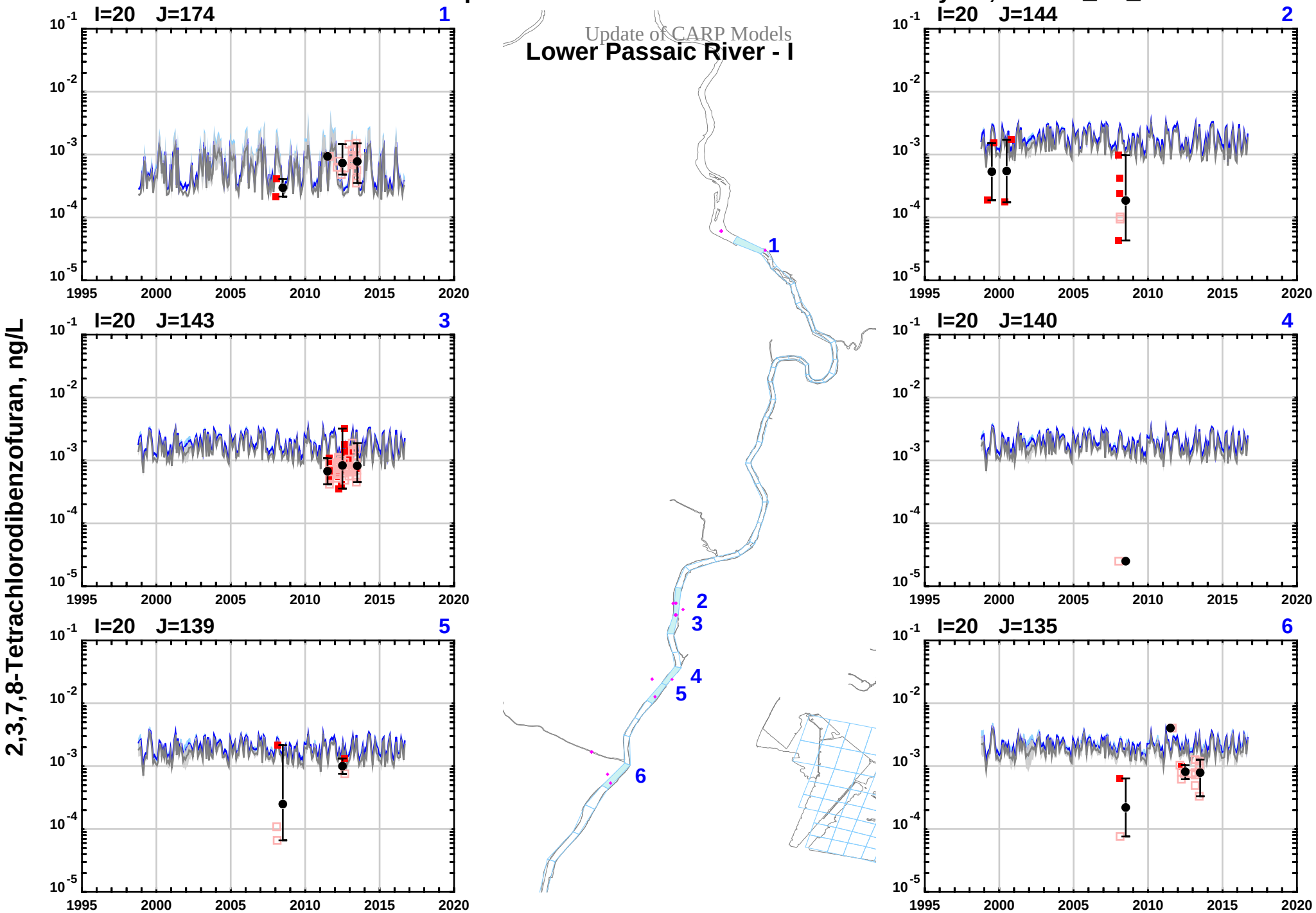
Model: mean and range of values in Water Column

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

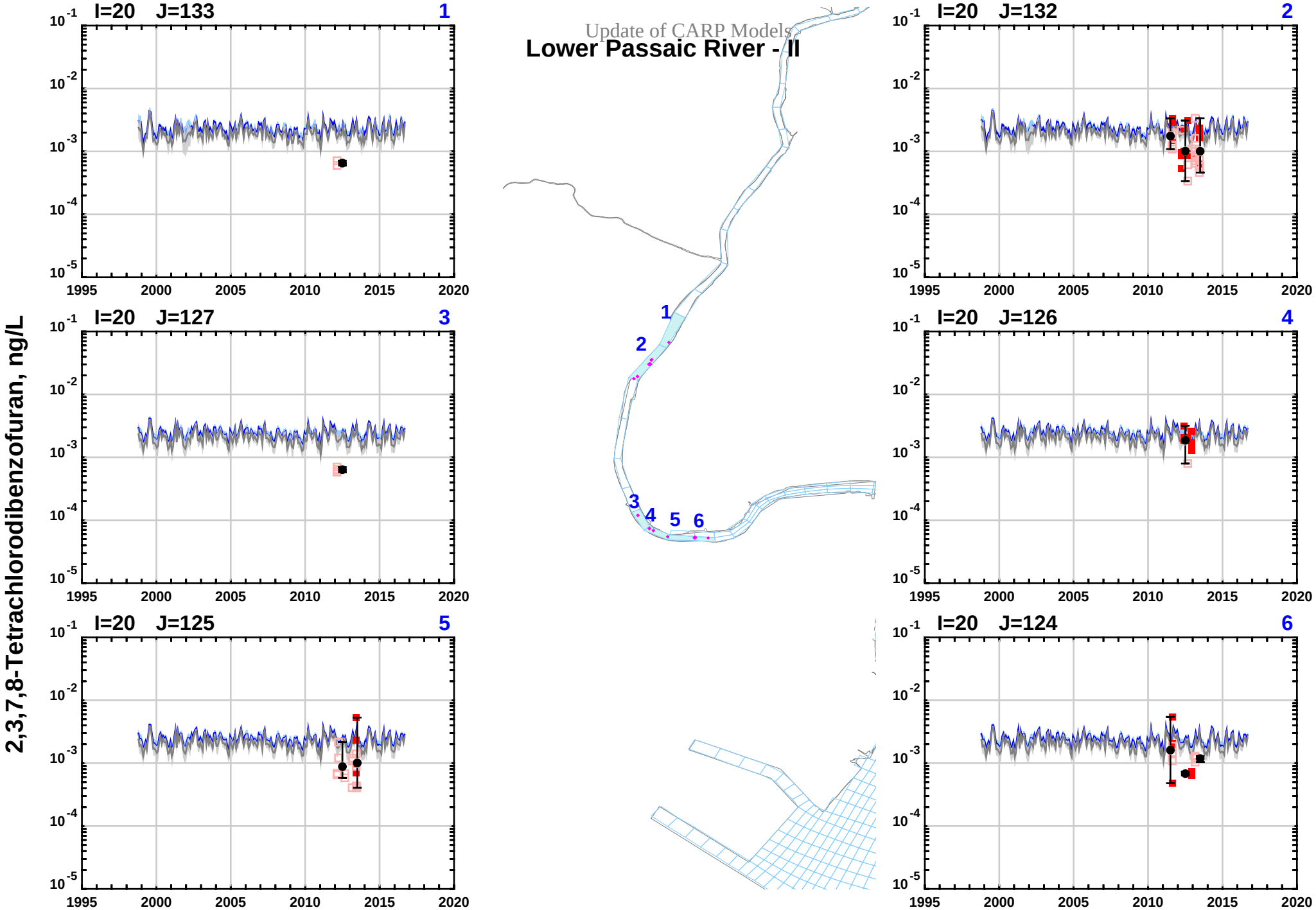
Water Column Data: yearly mean and range

CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2



Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2



Detect Data Non-Detect Data

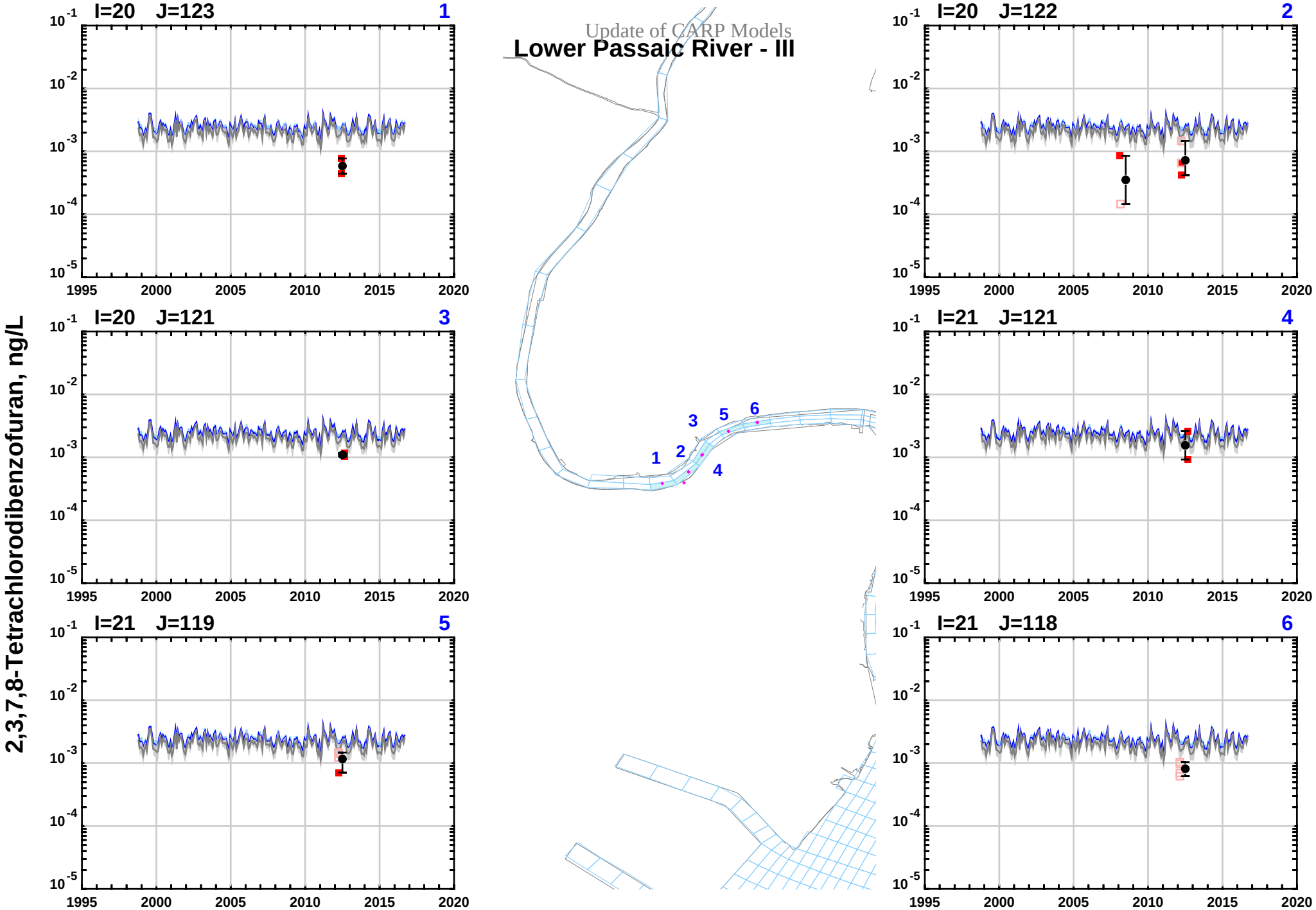
Model: mean and range of values in Water Column

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_S5_R2



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

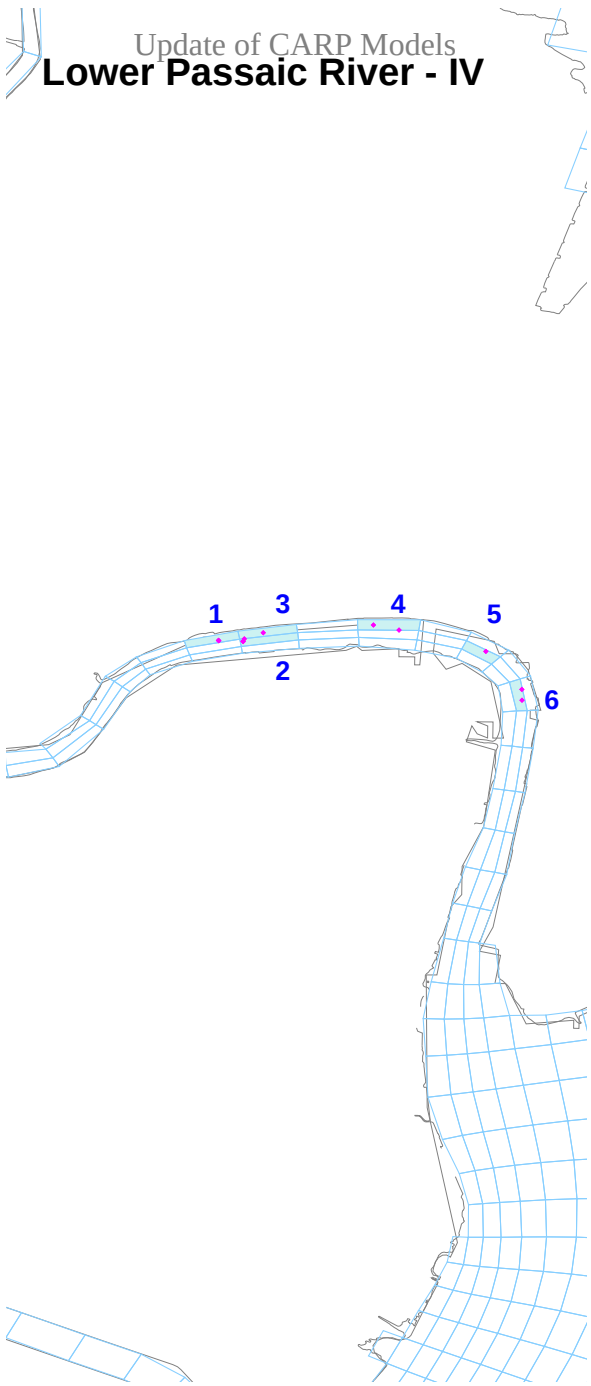
Water Column Data: yearly mean and range

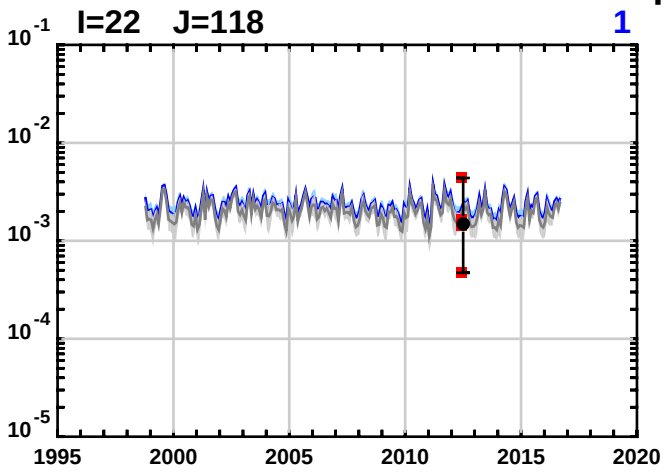
CARP2 Data

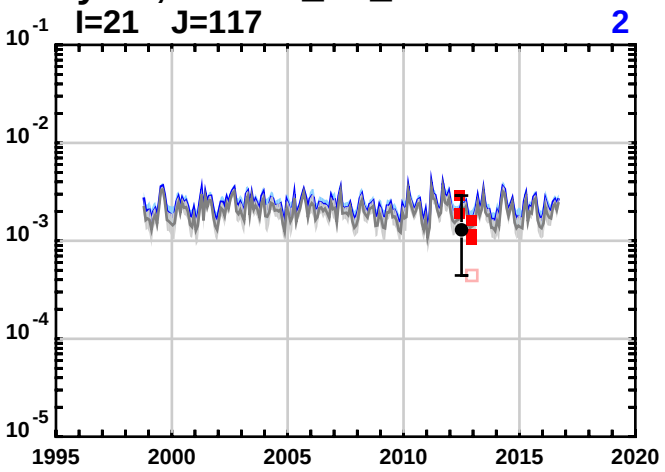
Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2

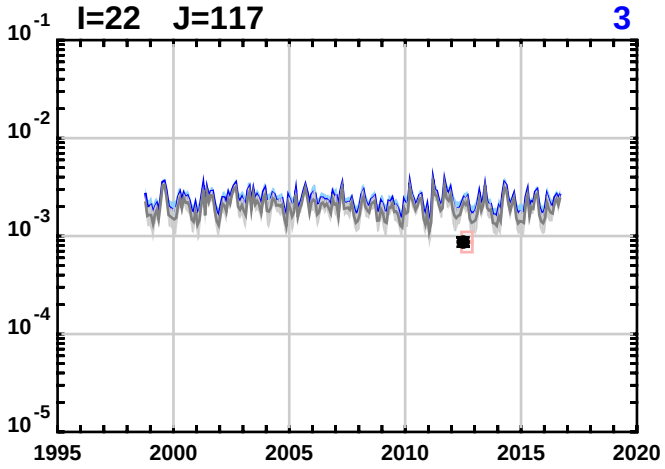
Update of CARP Models

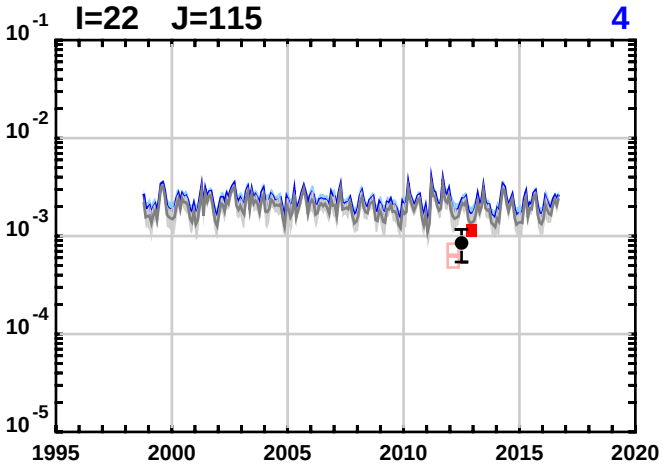
Lower Passaic River - IV

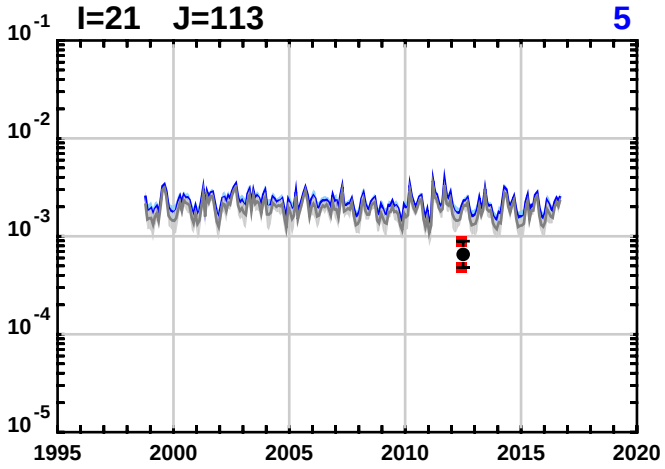


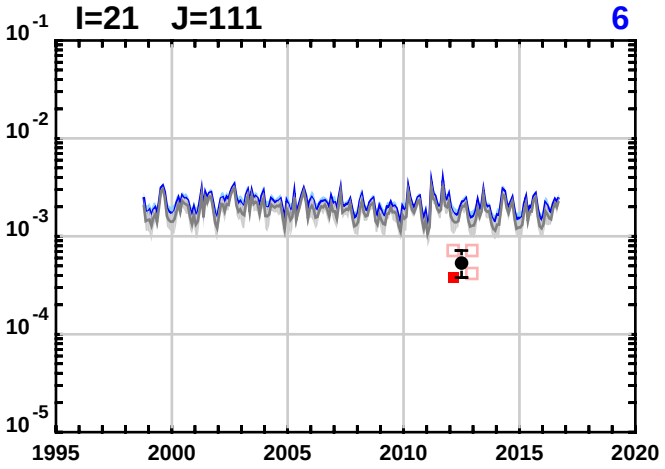












2,3,7,8-Tetrachlorodibenzofuran, ng/L

Detect Data Non-Detect Data

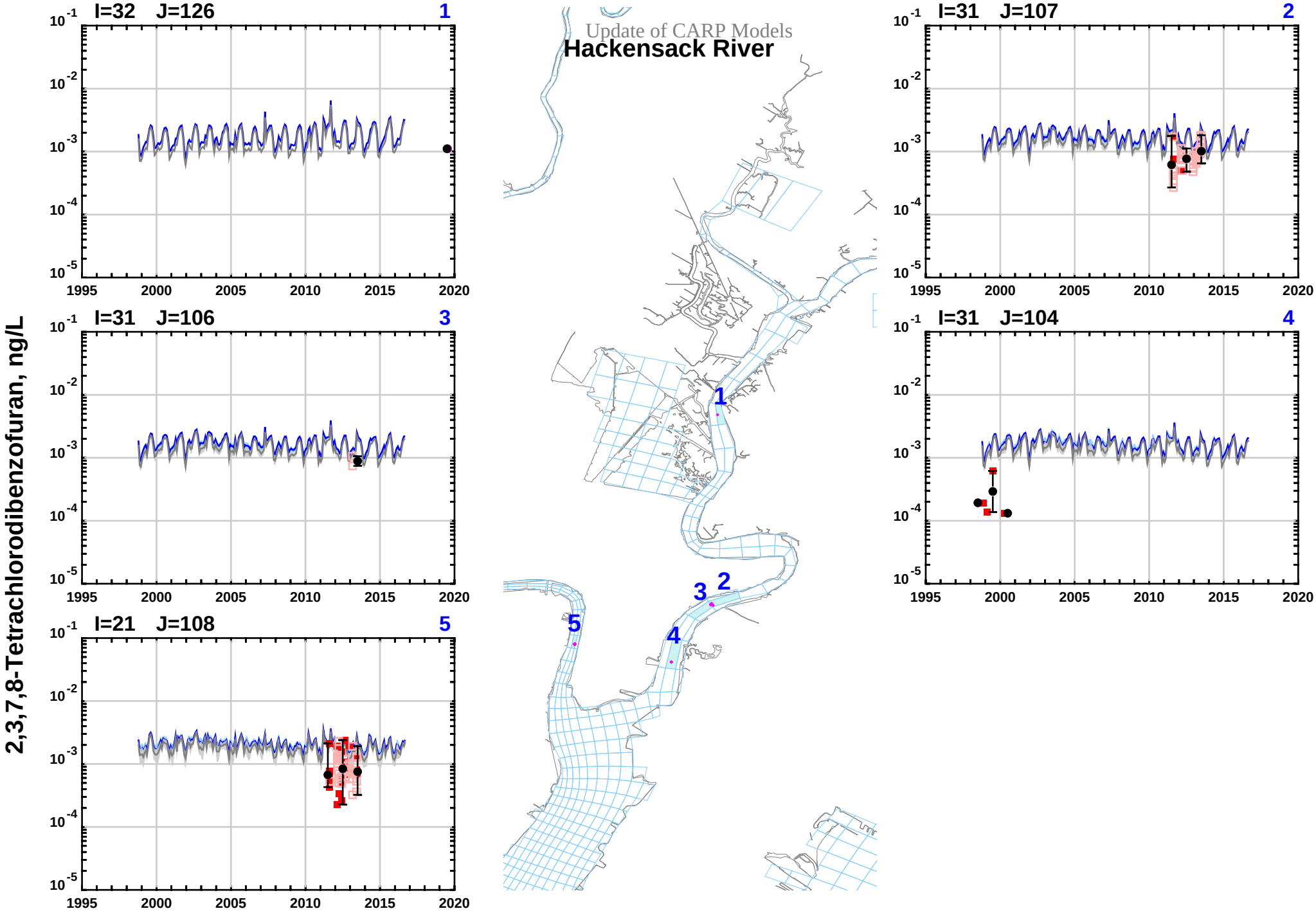
Model: mean and range of values in Water Column

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_S5_R2



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

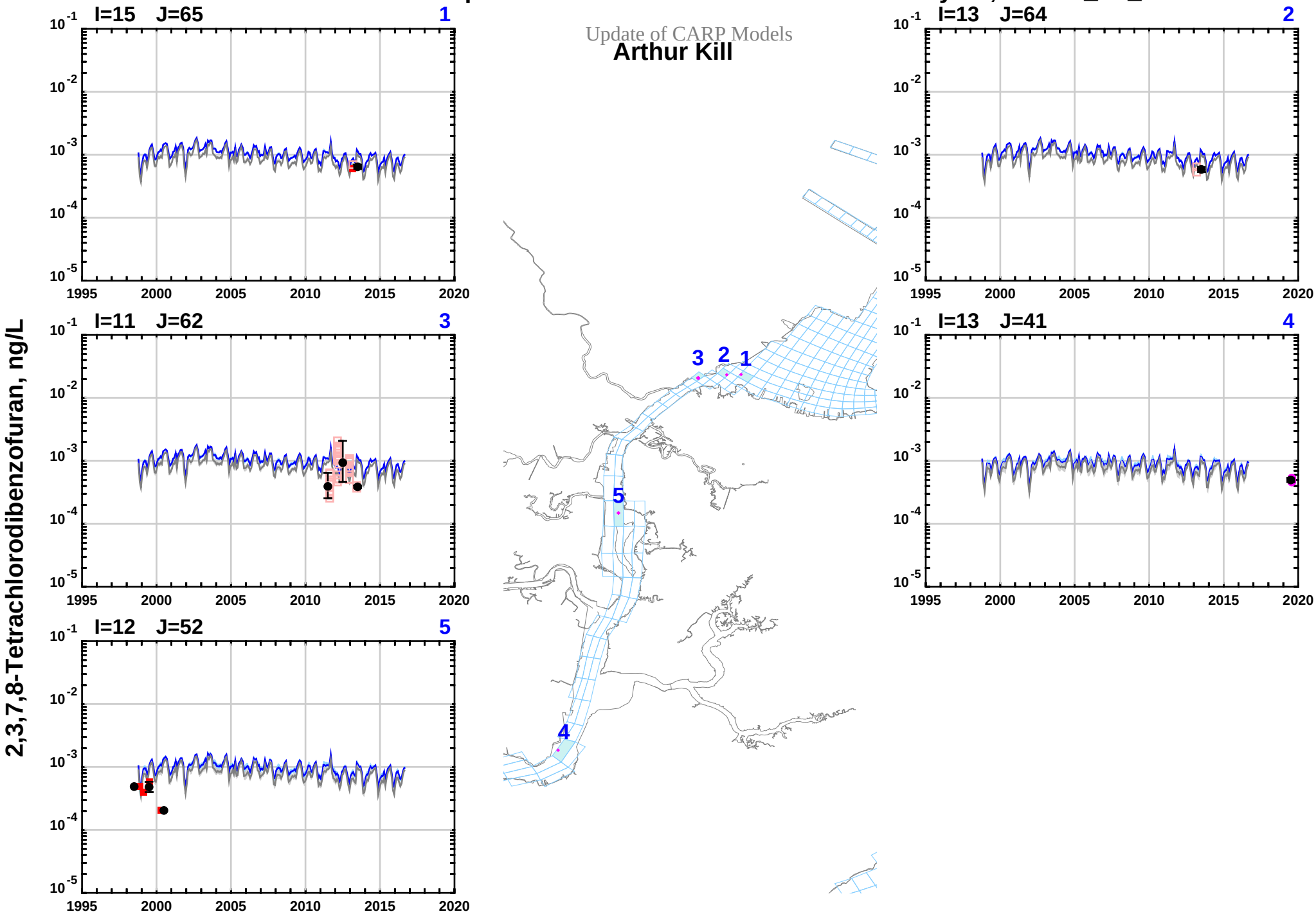
● Water Column Data: yearly mean and range

● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2

Update of CARP Models

Arthur Kill



Detect Data Non-Detect Data

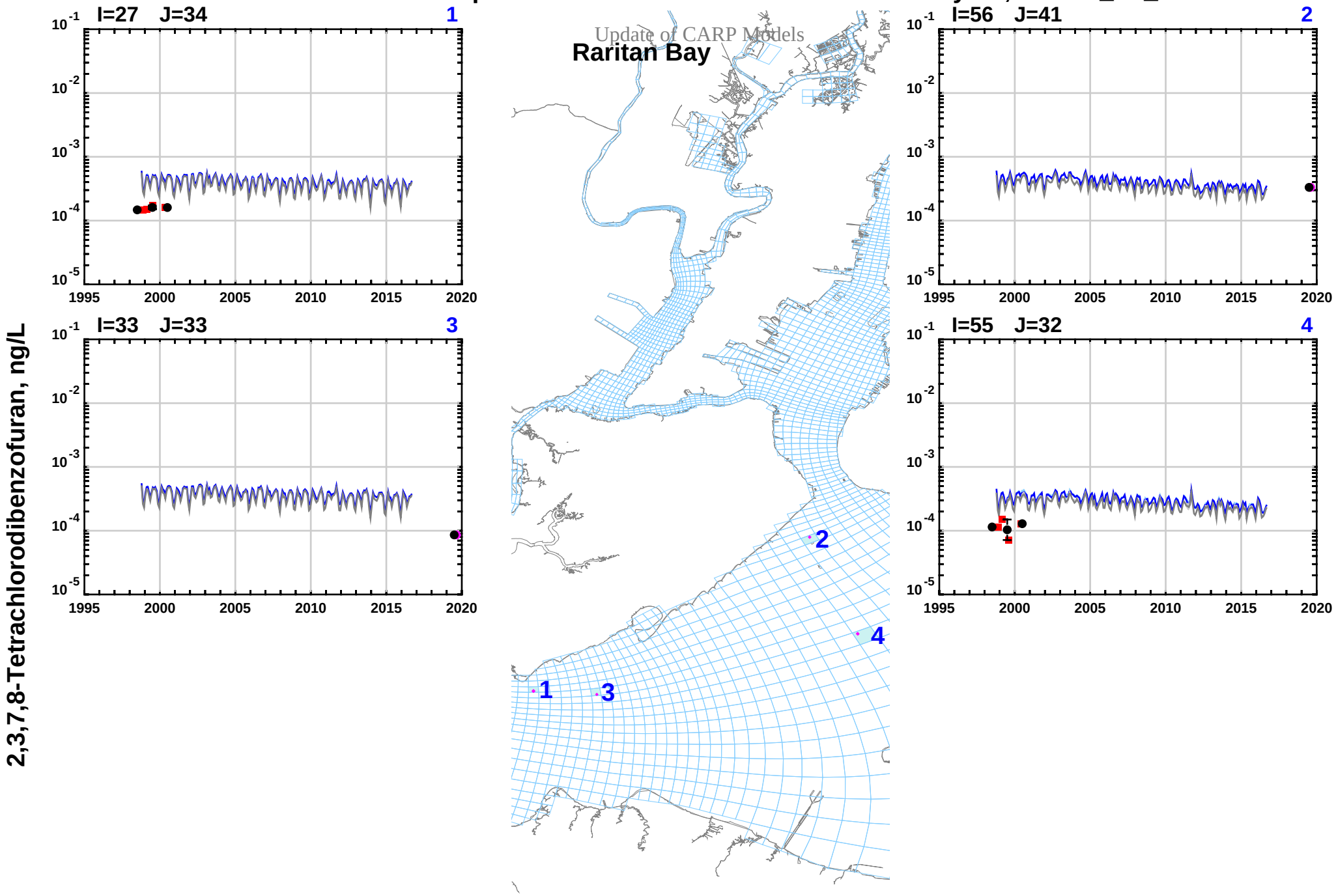
Model: mean and range of values in Water Column

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_S5_R2



Detect Data Non-Detect Data

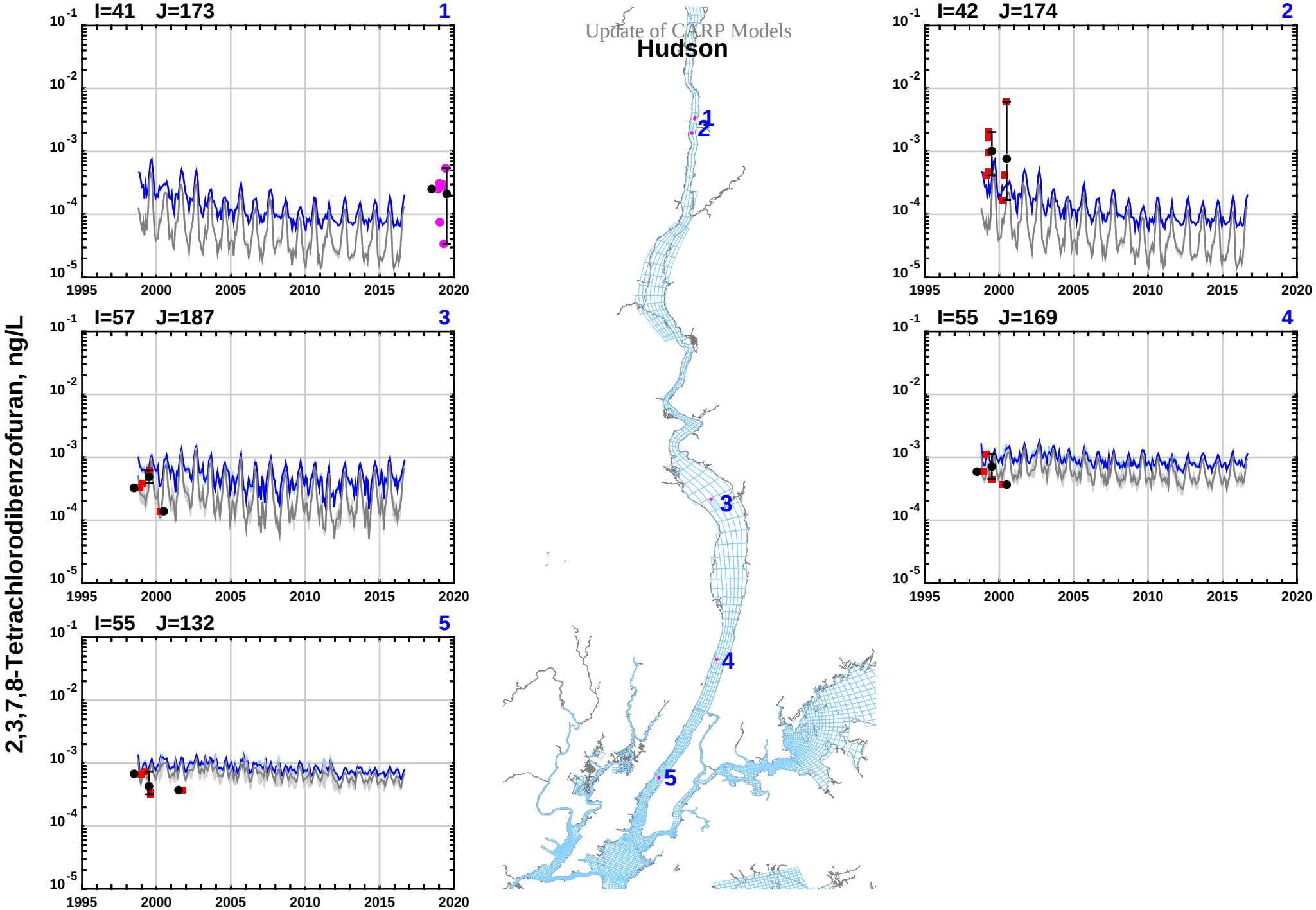
Model: mean and range of values in Water Column

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_S5_R2



Detect Data Non-Detect Data

Model: mean and range of values in Water Column

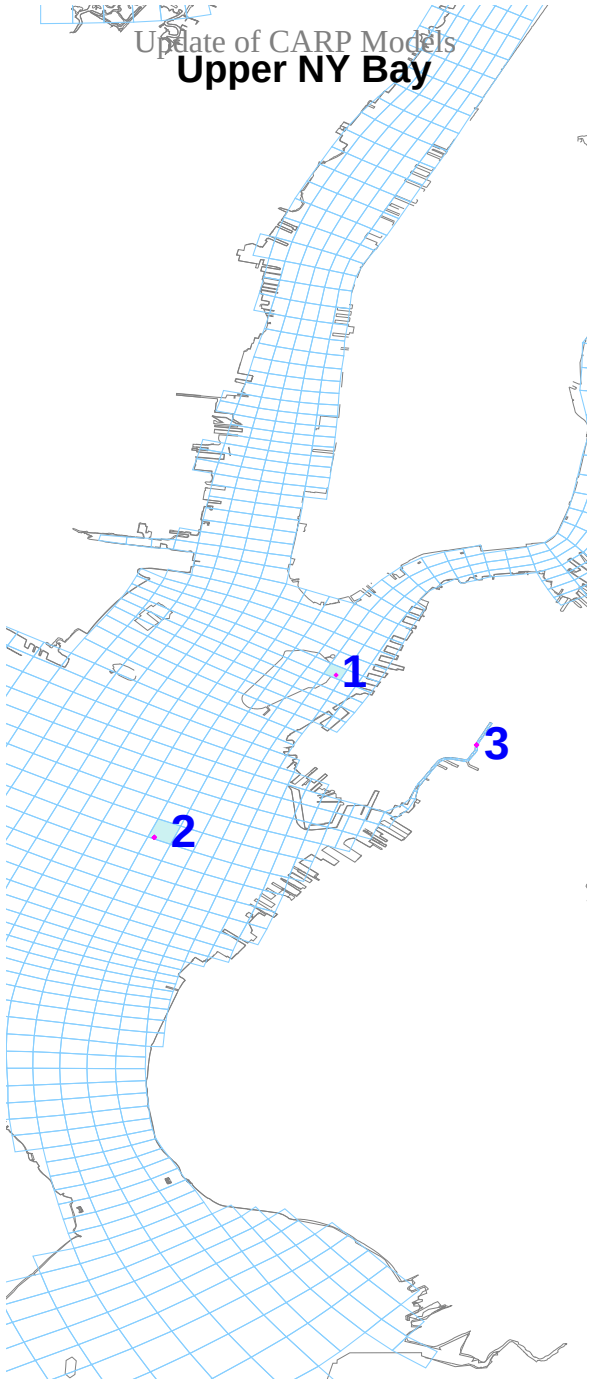
Model: Particulate Phase mean and range of values in Water Column

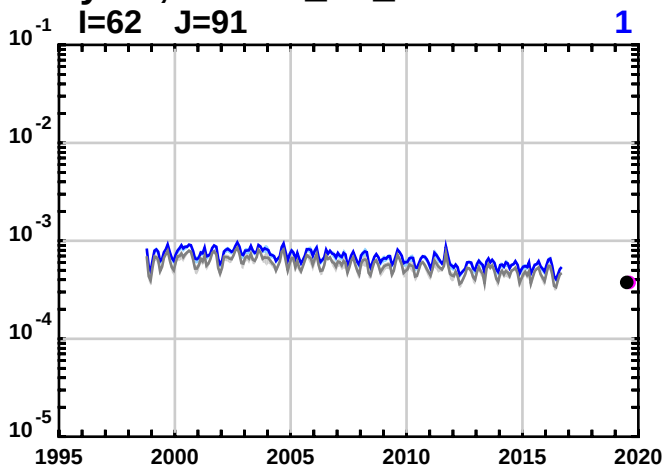
● Water Column Data: yearly mean and range

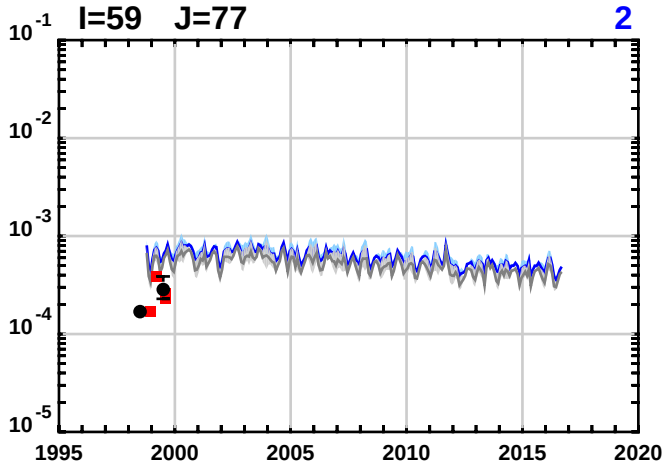
● CARP2 Data

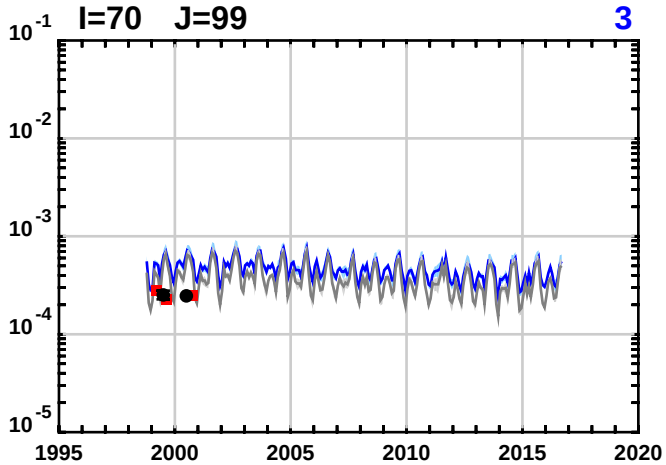
Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2

Update of CARP Models









2,3,7,8-Tetrachlorodibenzofuran, 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

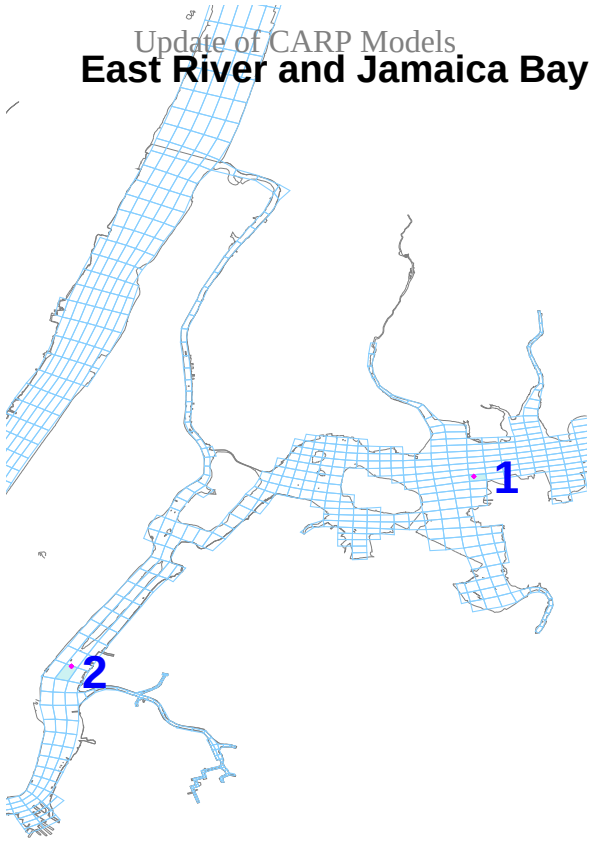
● Water Column Data: yearly mean and range

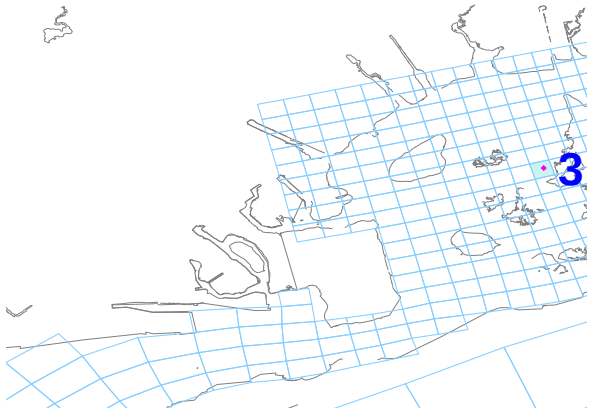
● CARP2 Data

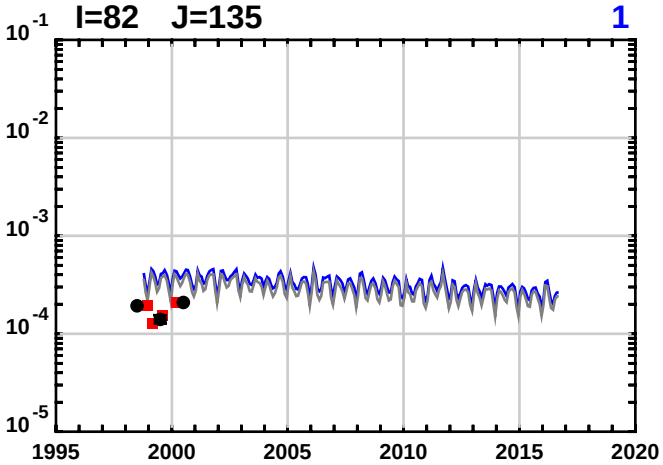
Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2

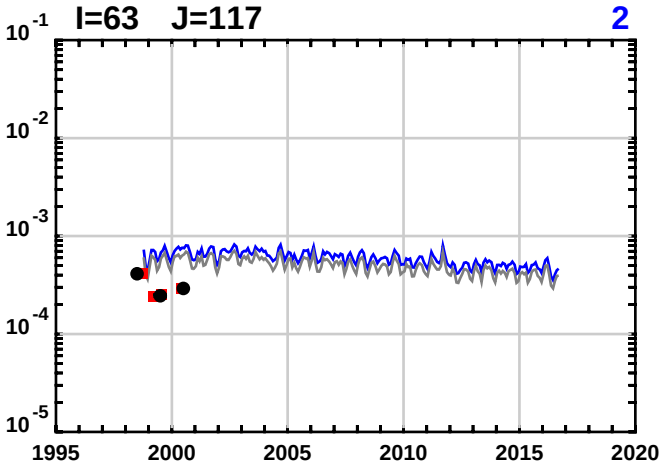
Update of CARP Models

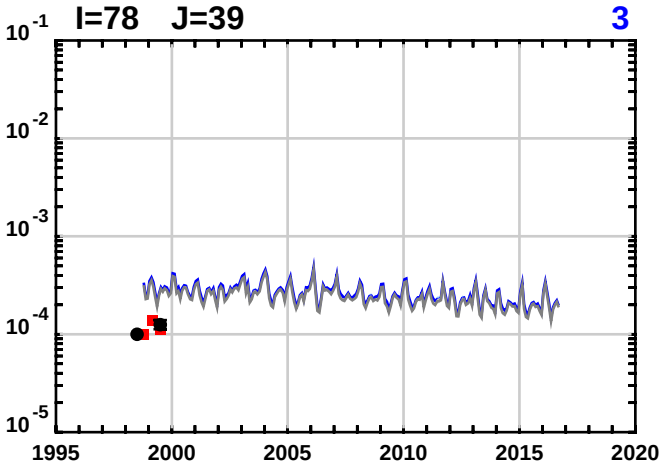
East River and Jamaica Bay











2,3,7,8-Tetrachlorodibenzofuran, ng/L

Detect Data Non-Detect Data

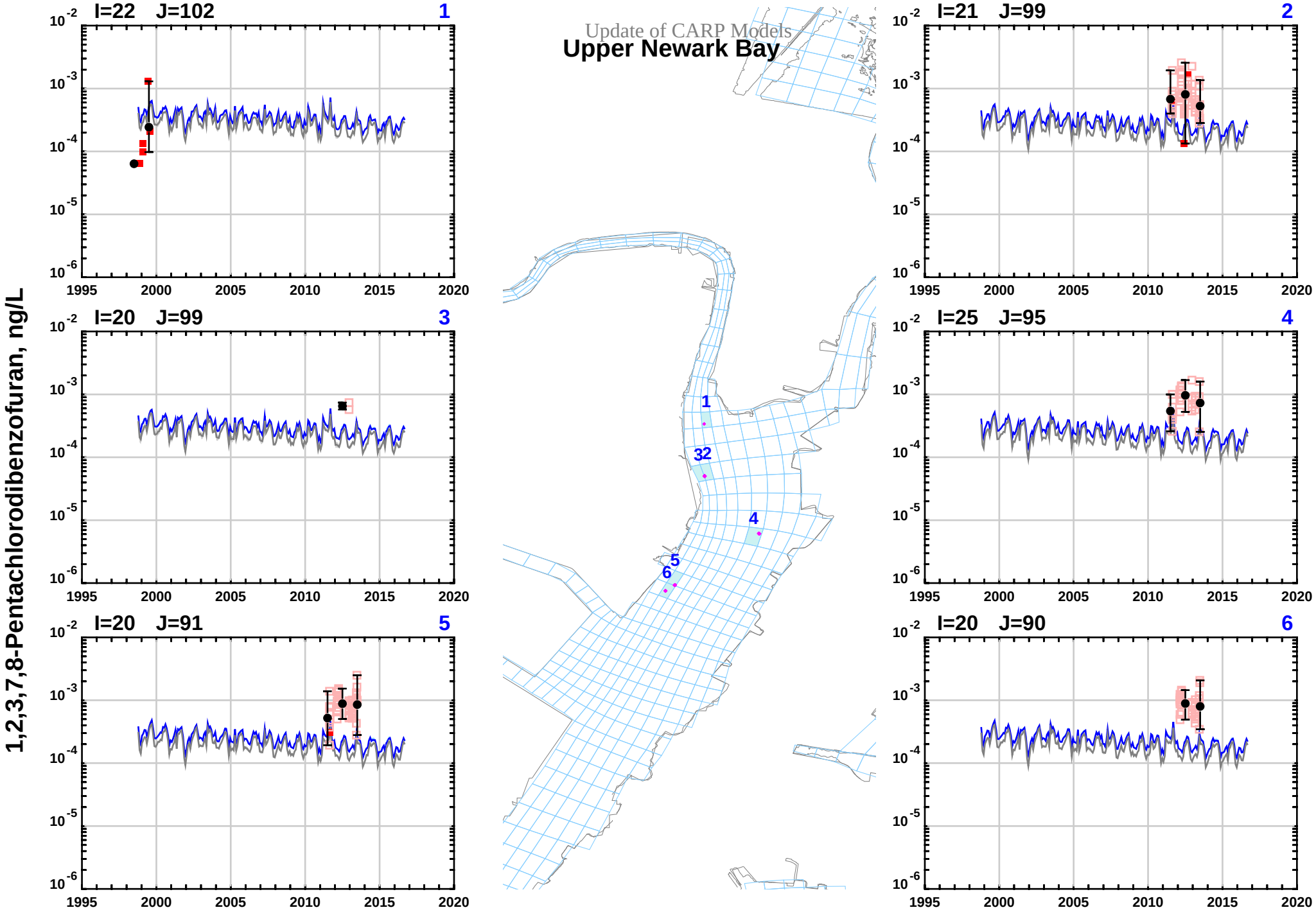
Model: mean and range of values in Water Column

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_S4_R2



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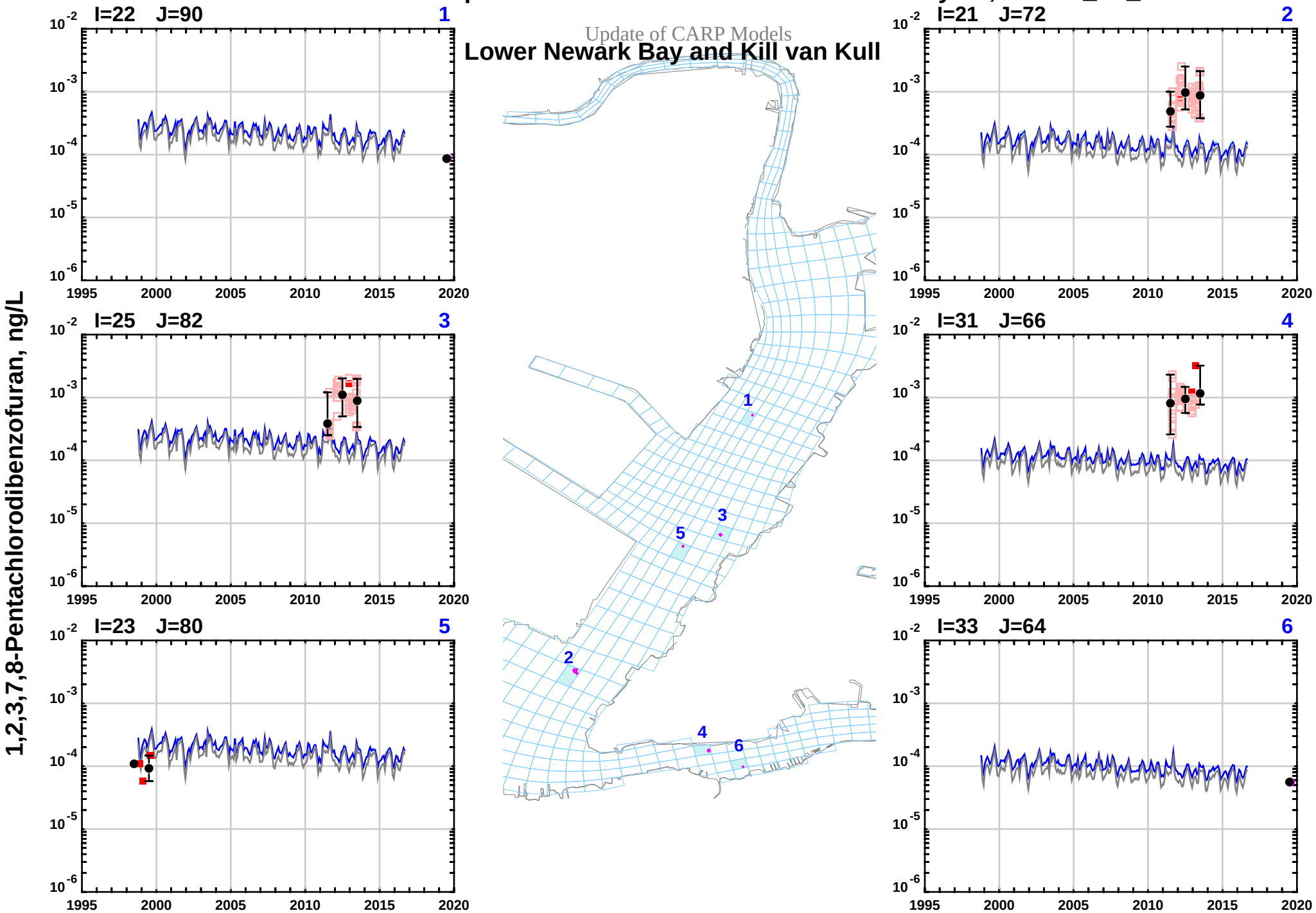
CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2



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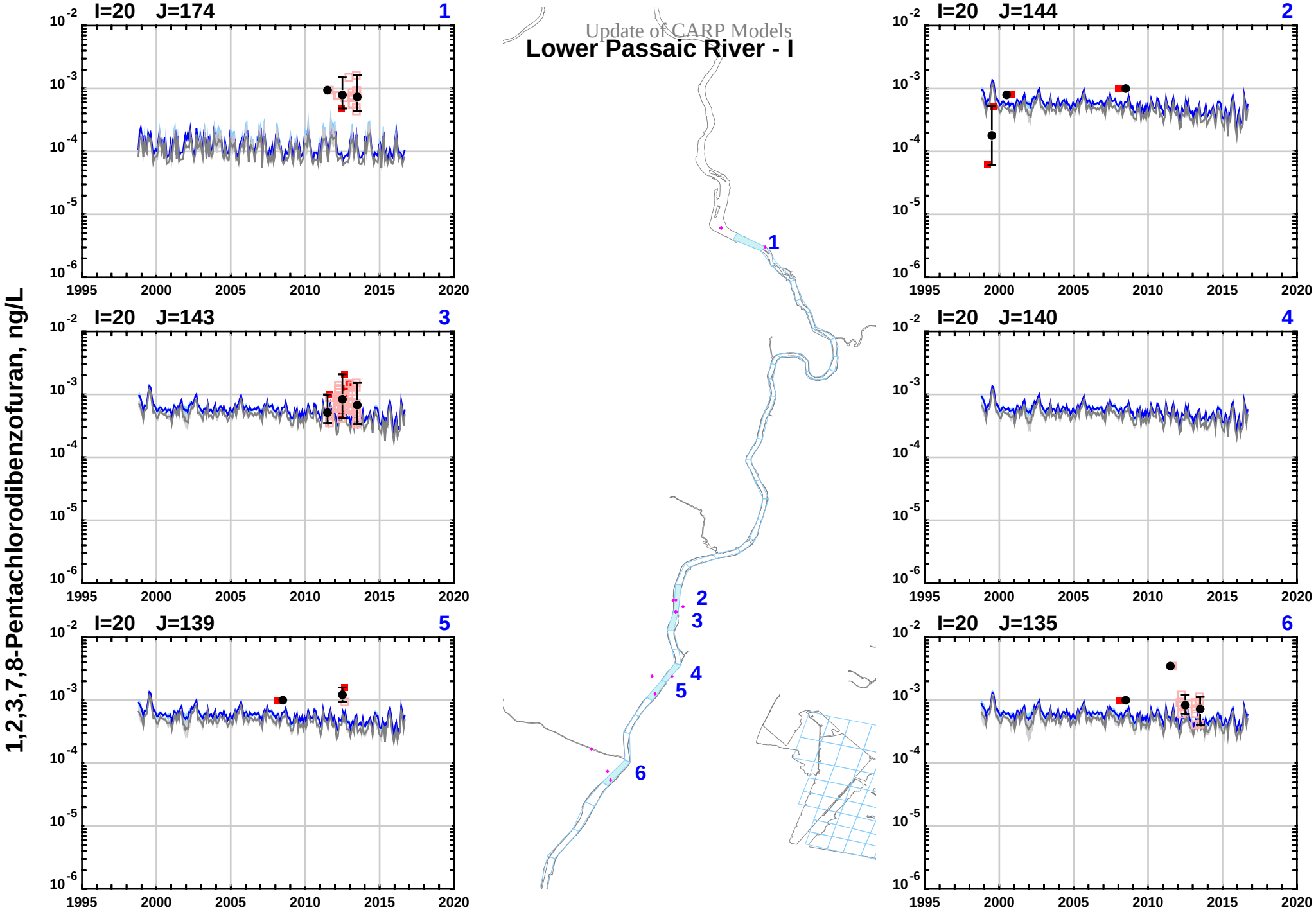
CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2



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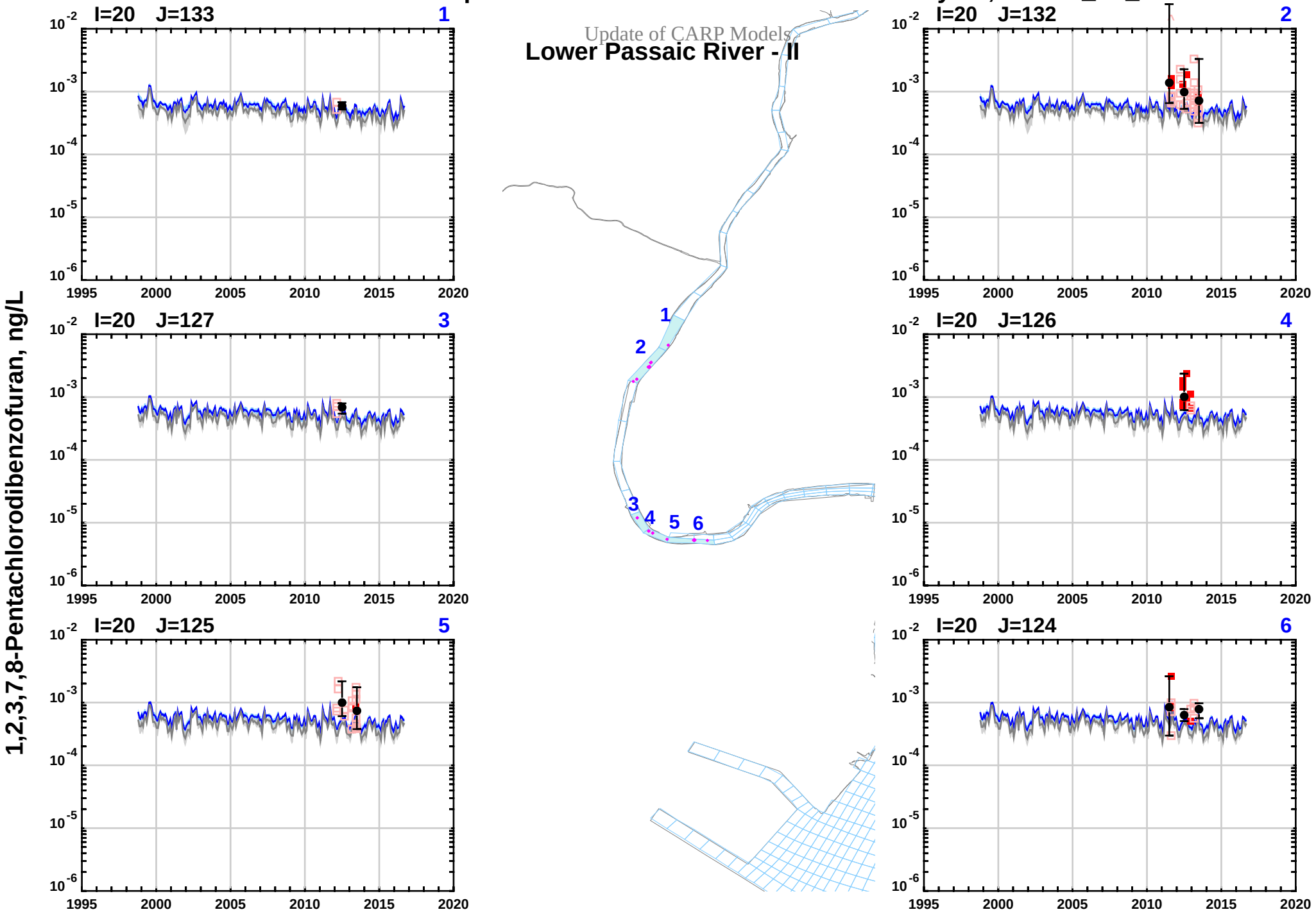
Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2



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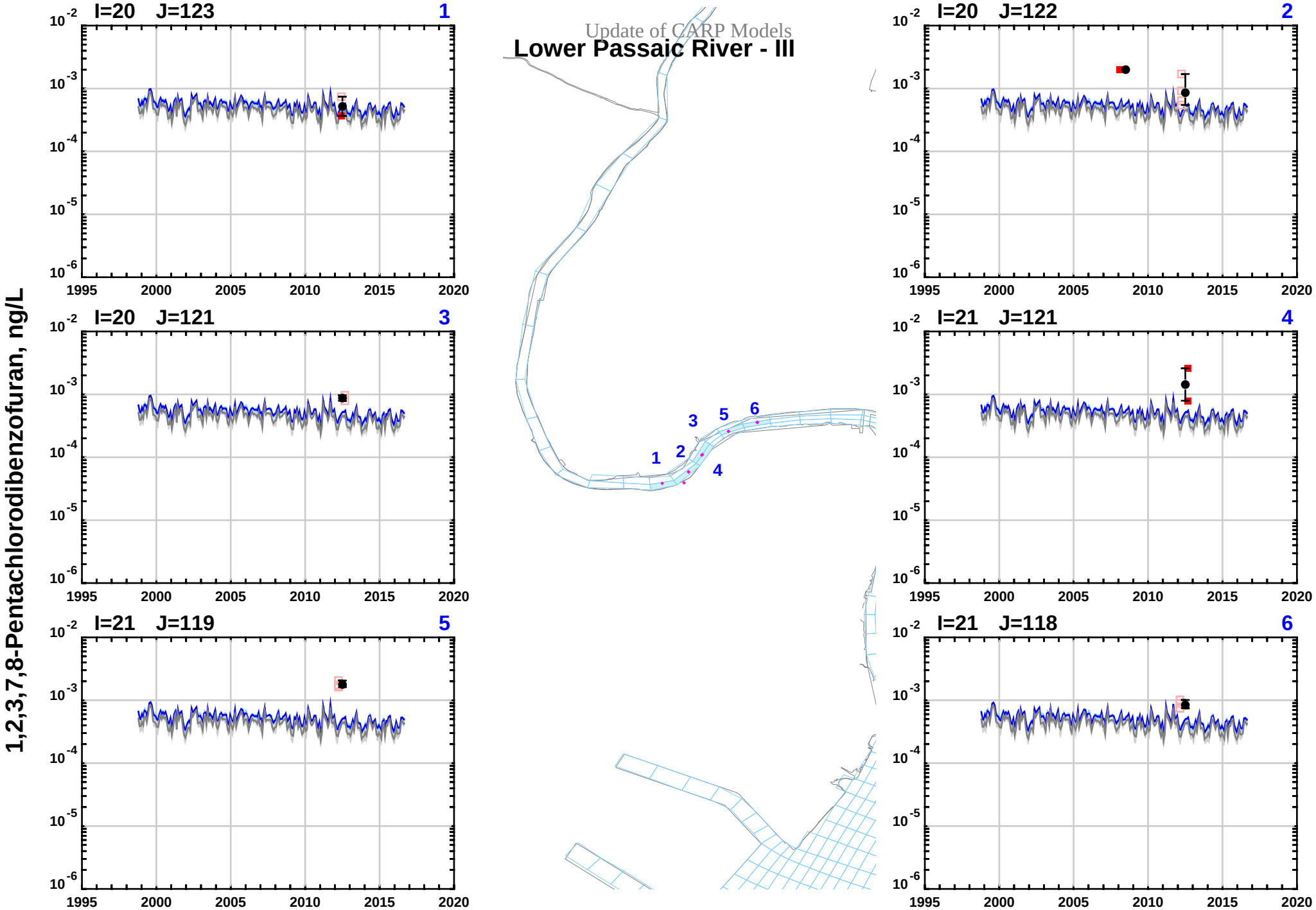
Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2



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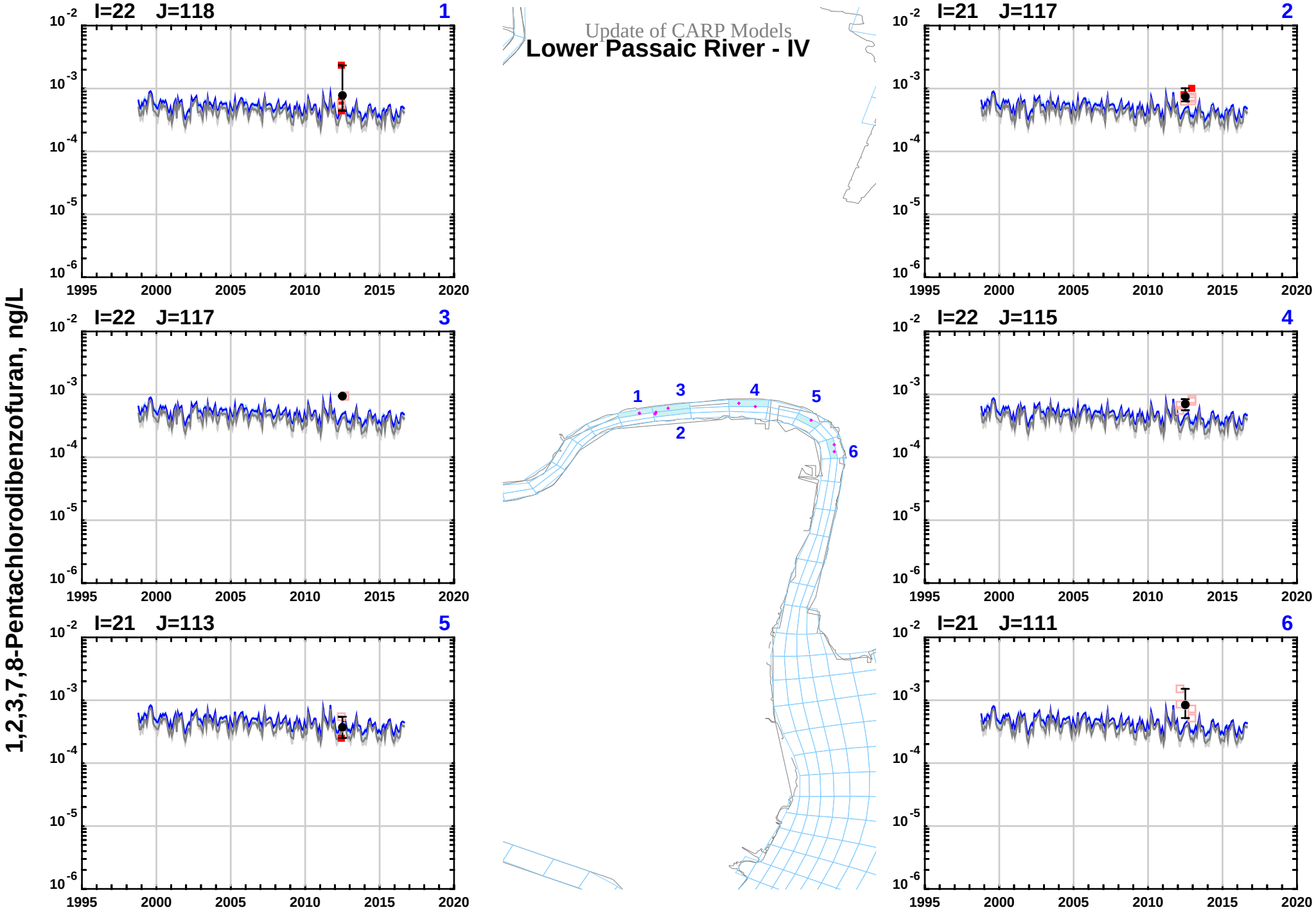
Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2



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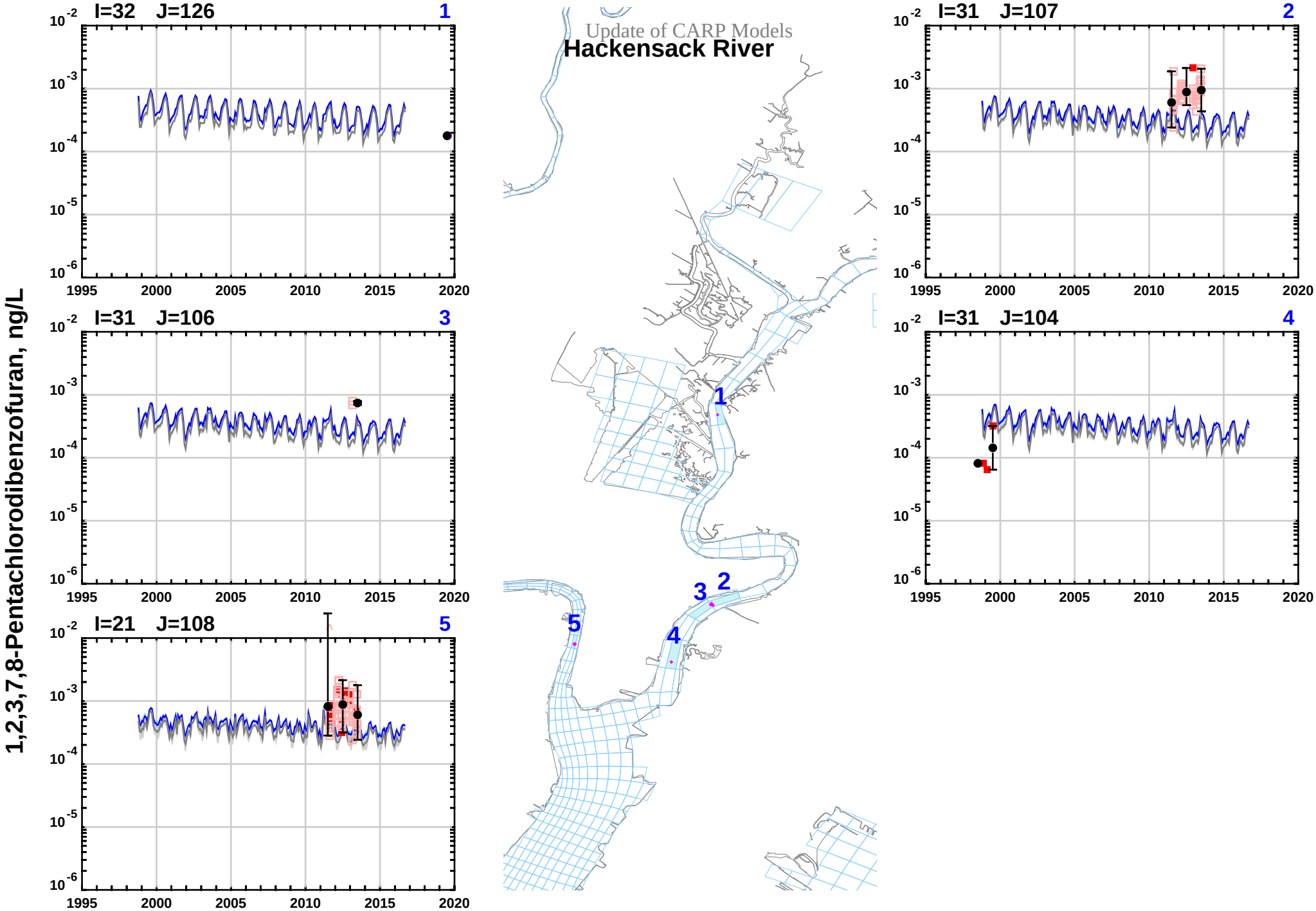
Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2



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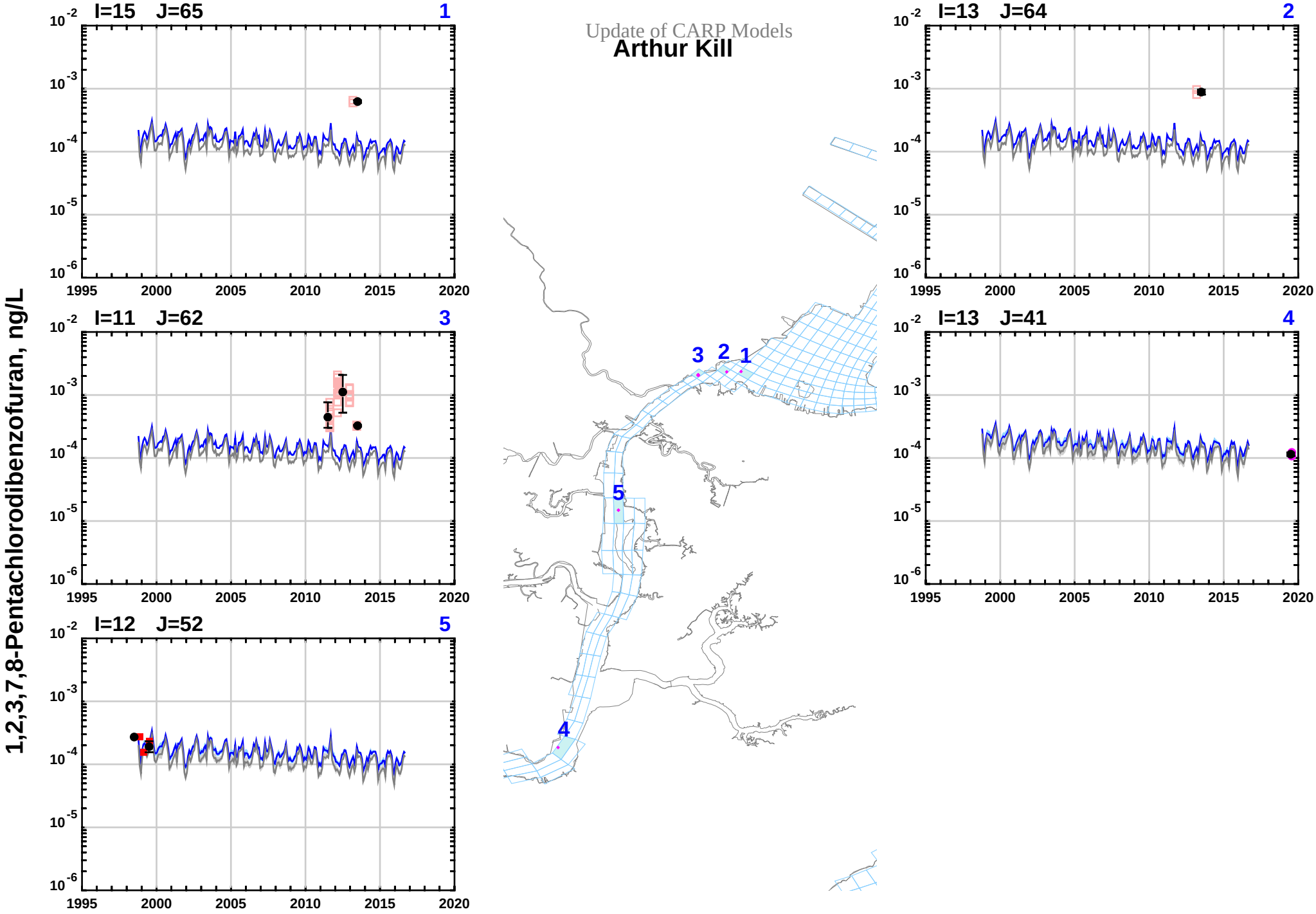
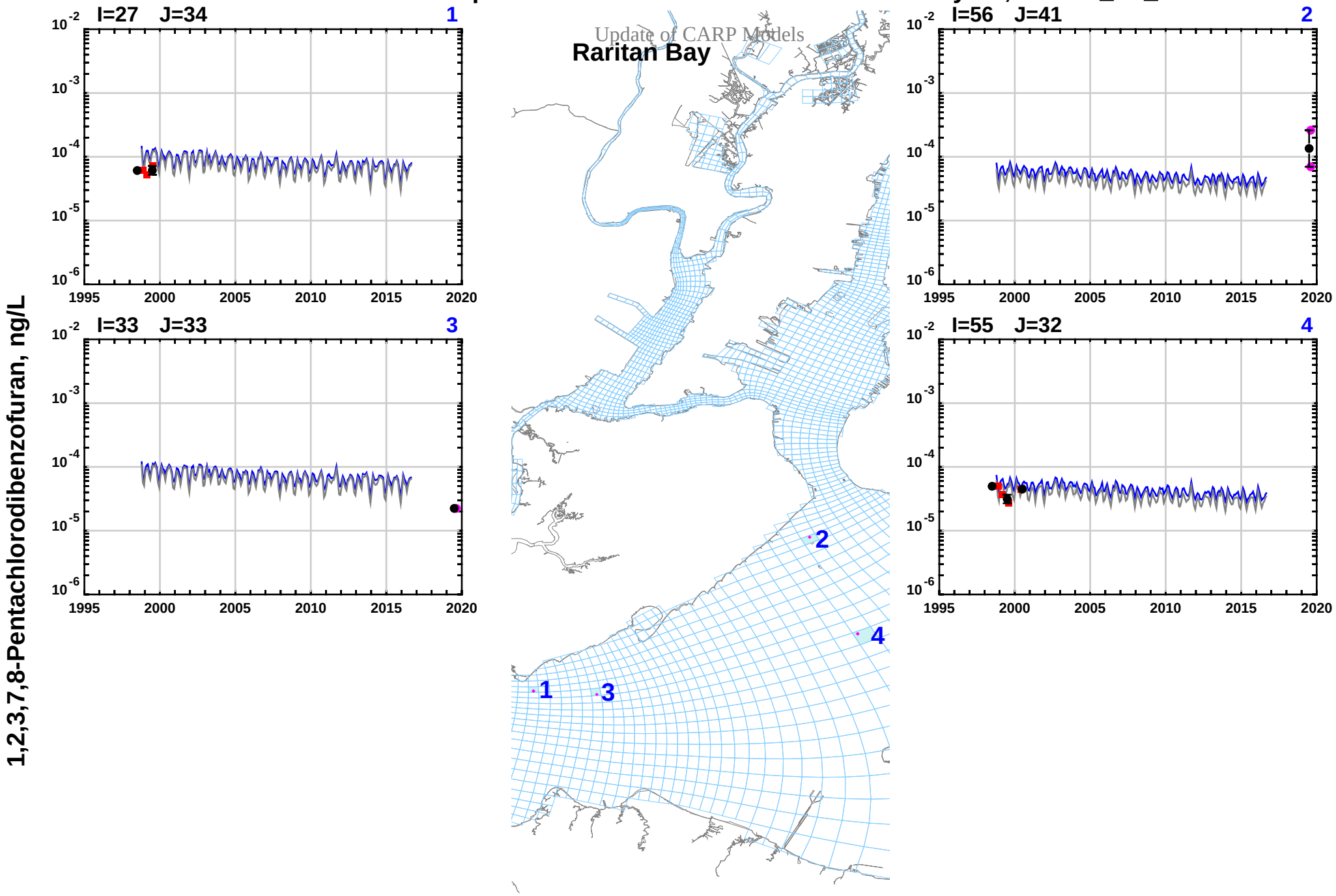
Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2

Update of CARP Models

Arthur Kill



Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2



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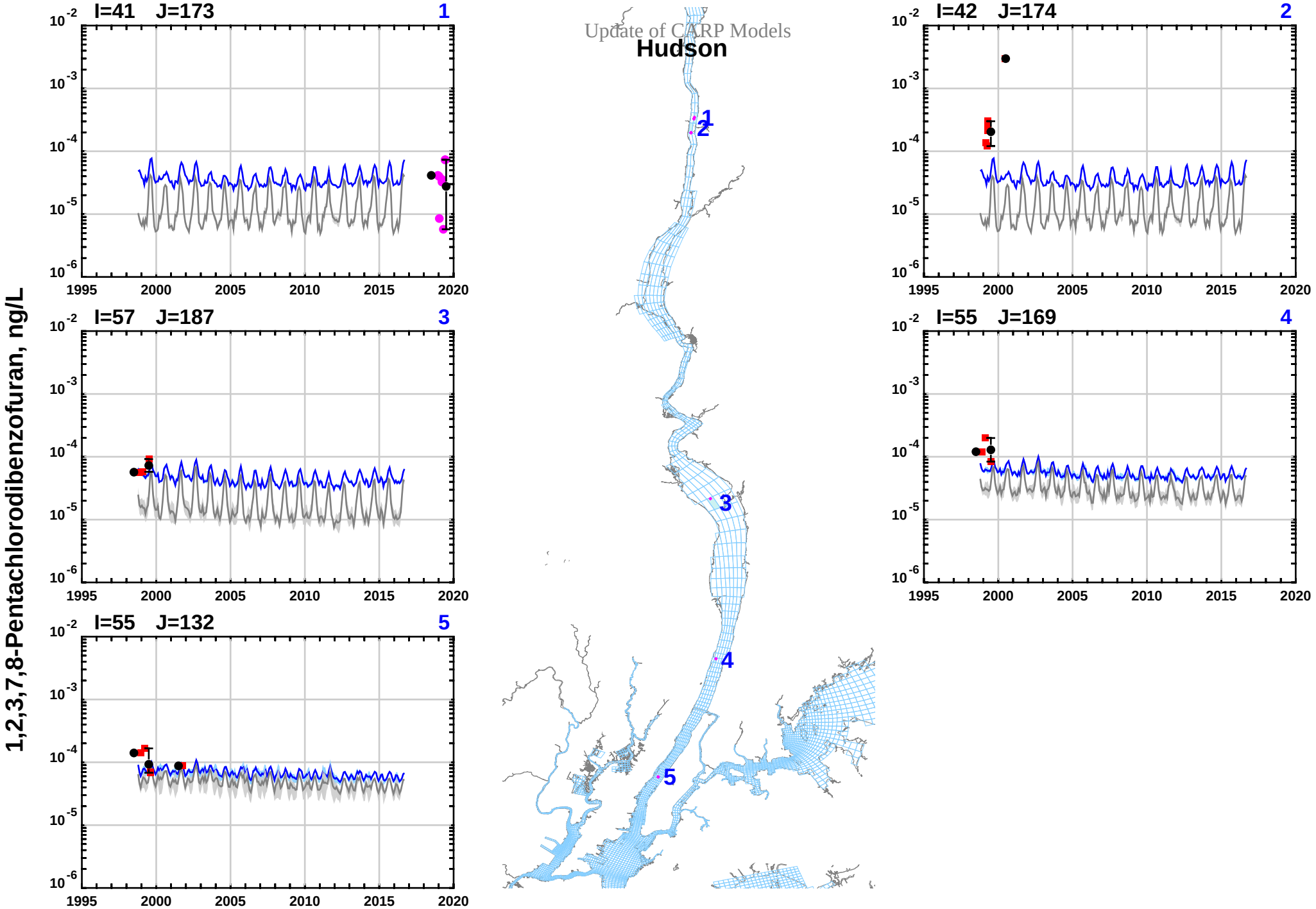
Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2



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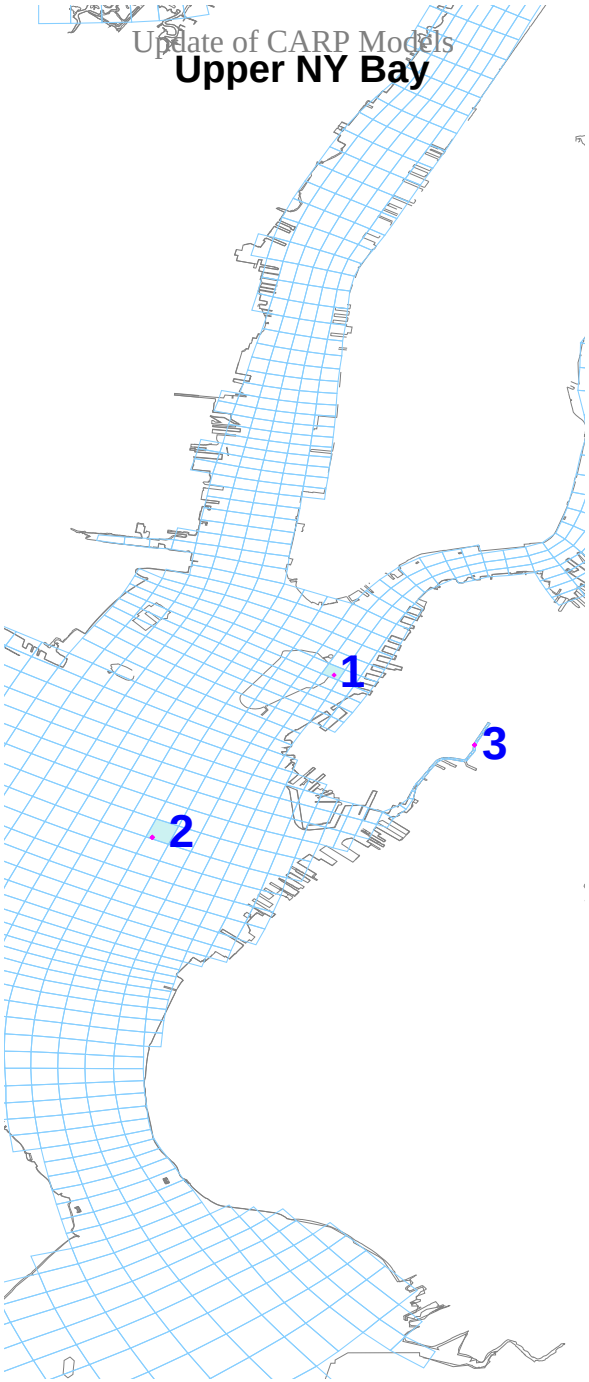

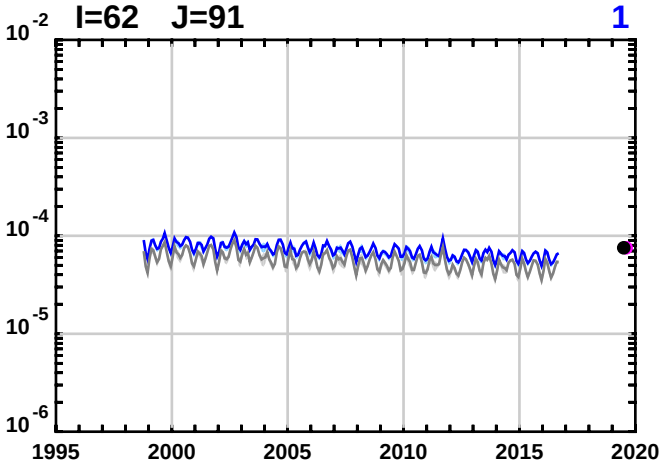

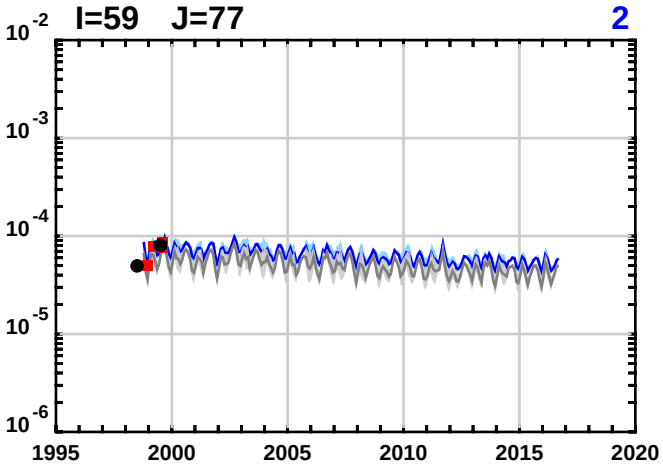

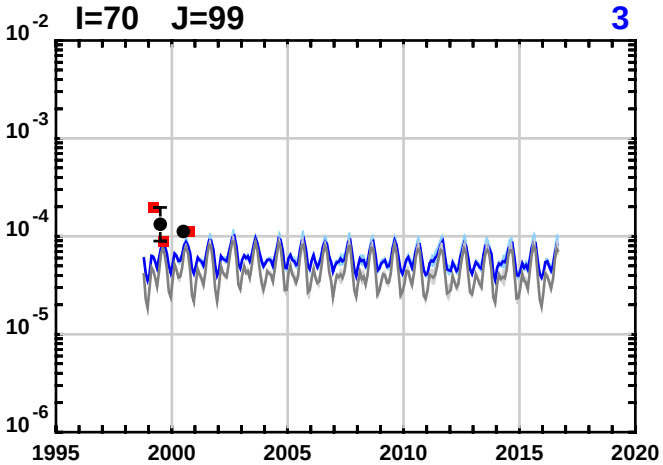

1,2,3,7,8-Pentachlorodibenzofuran, ng/L

Detect Data Non-Detect Data

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● Water Column Data: yearly mean and range

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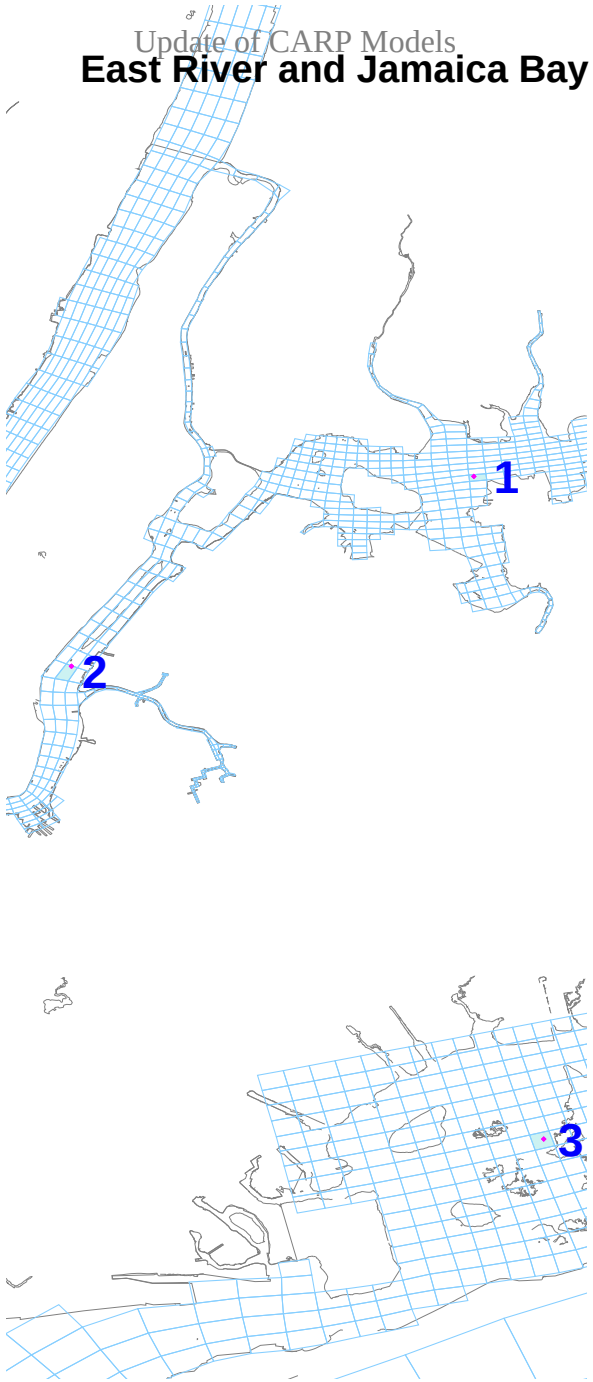
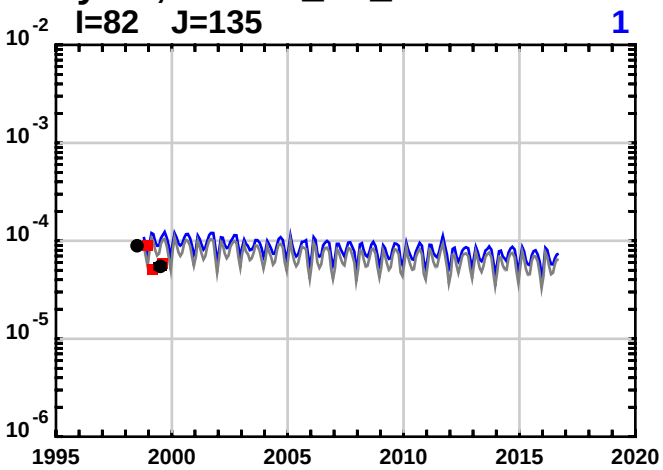
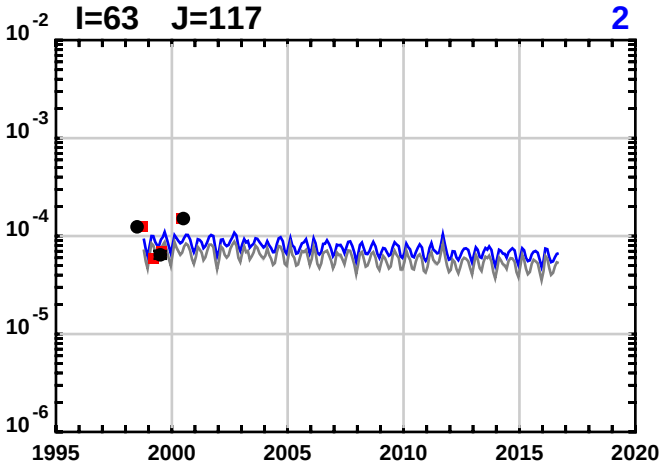
Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2

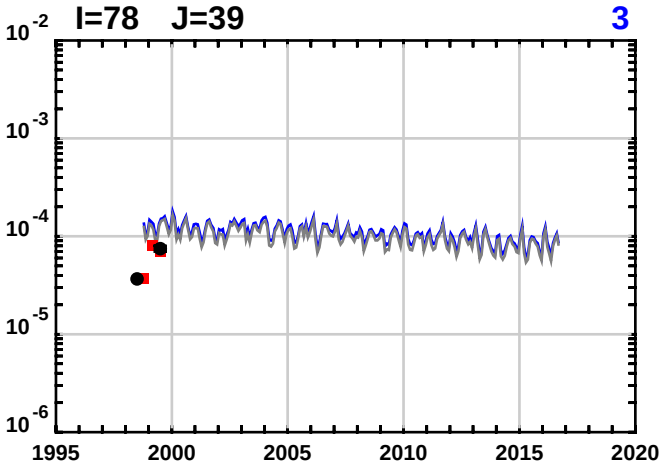
Update of CARP Models

East River and Jamaica Bay









1,2,3,7,8-Pentachlorodibenzofuran, ng/L

Detect Data Non-Detect Data

Model: mean and range of values in Water Column

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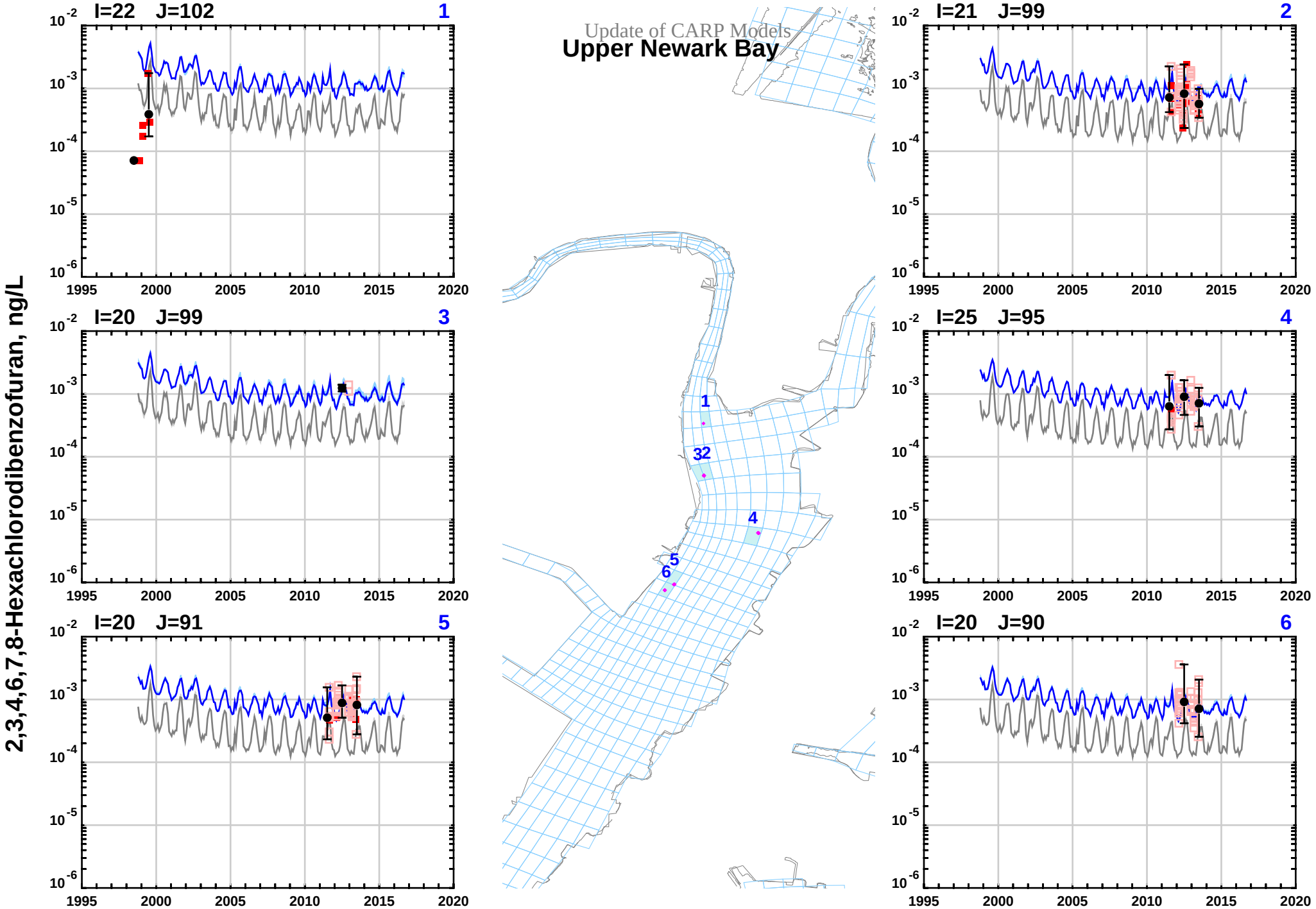
Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2



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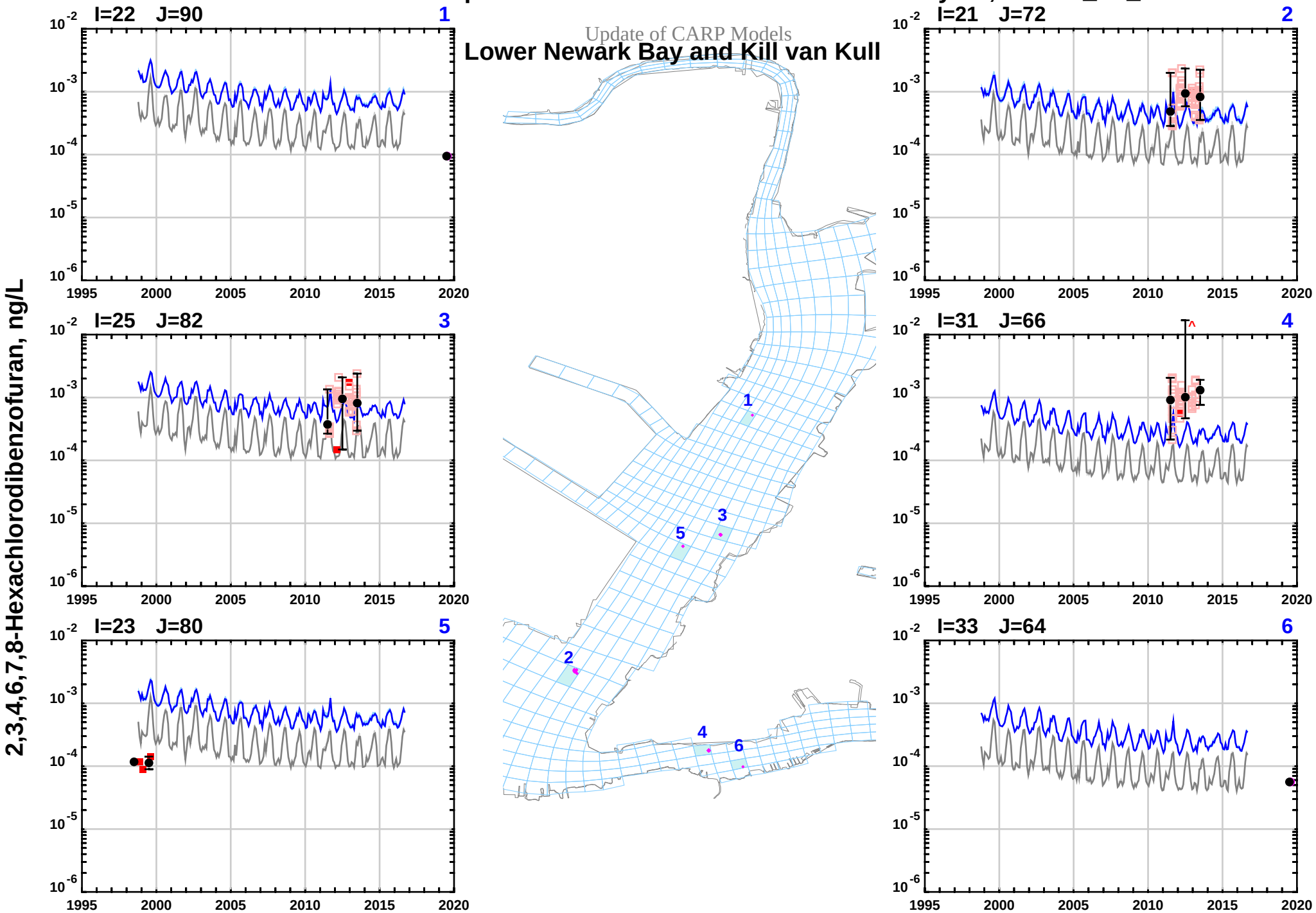
Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2



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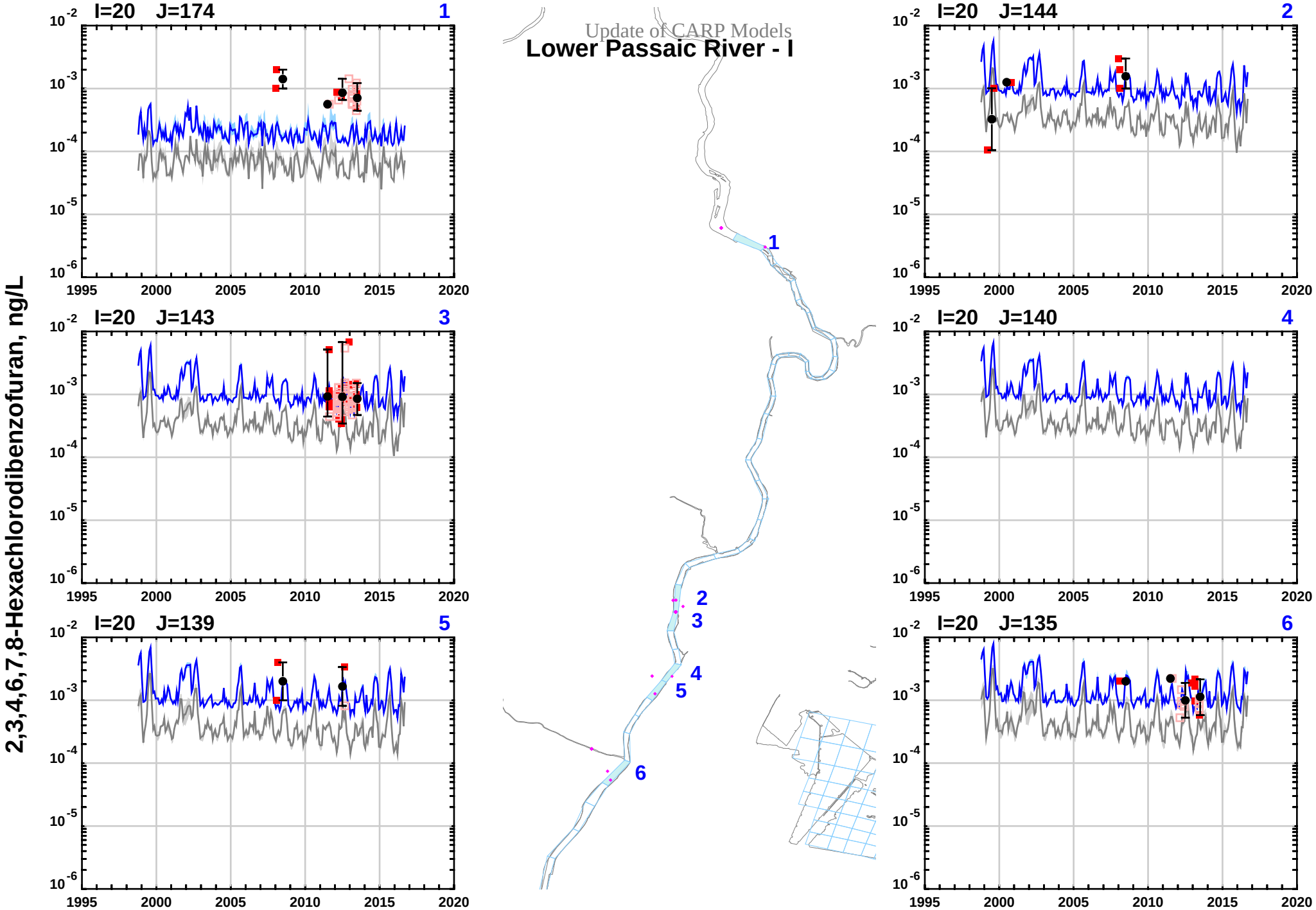
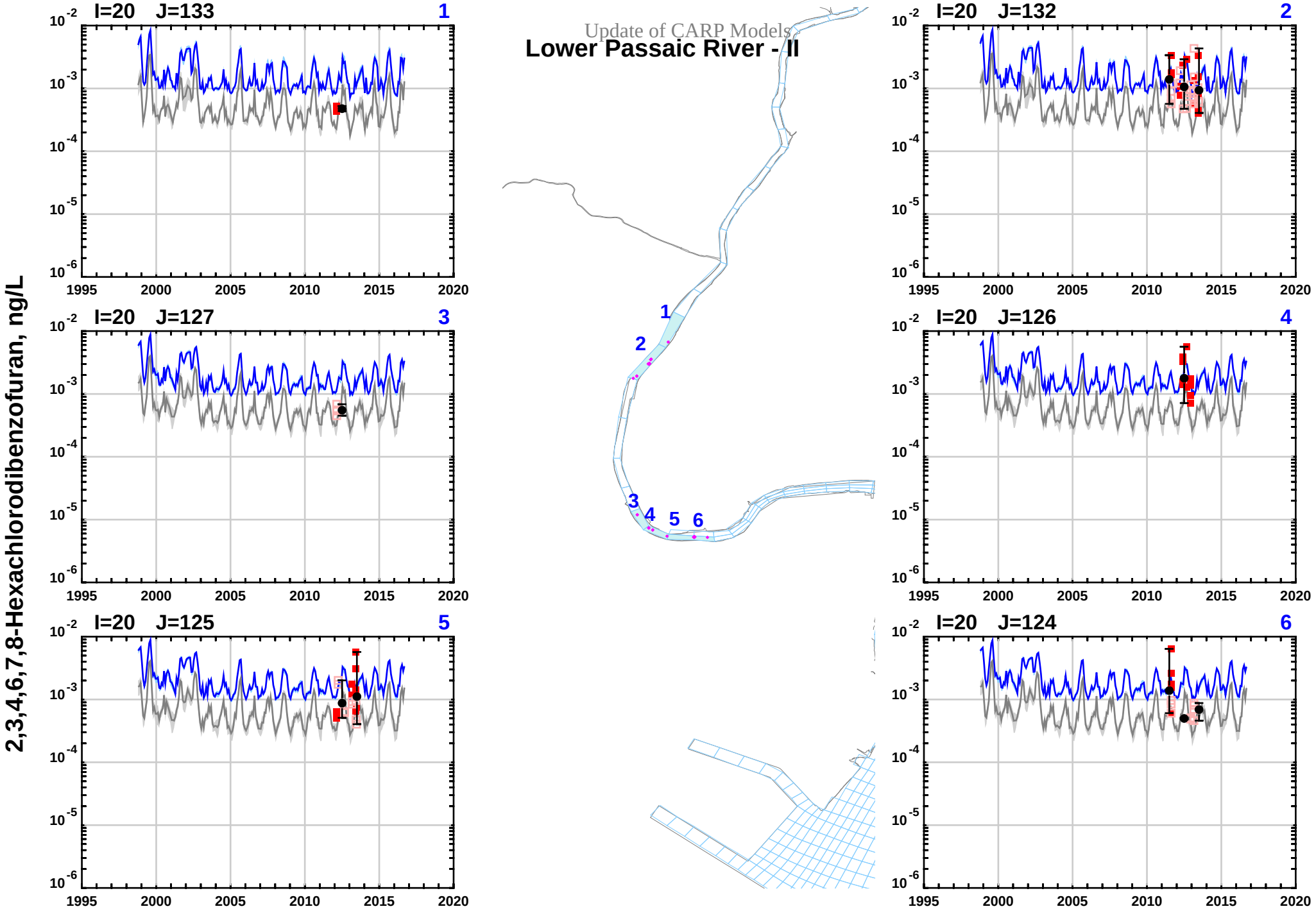
Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2



Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2



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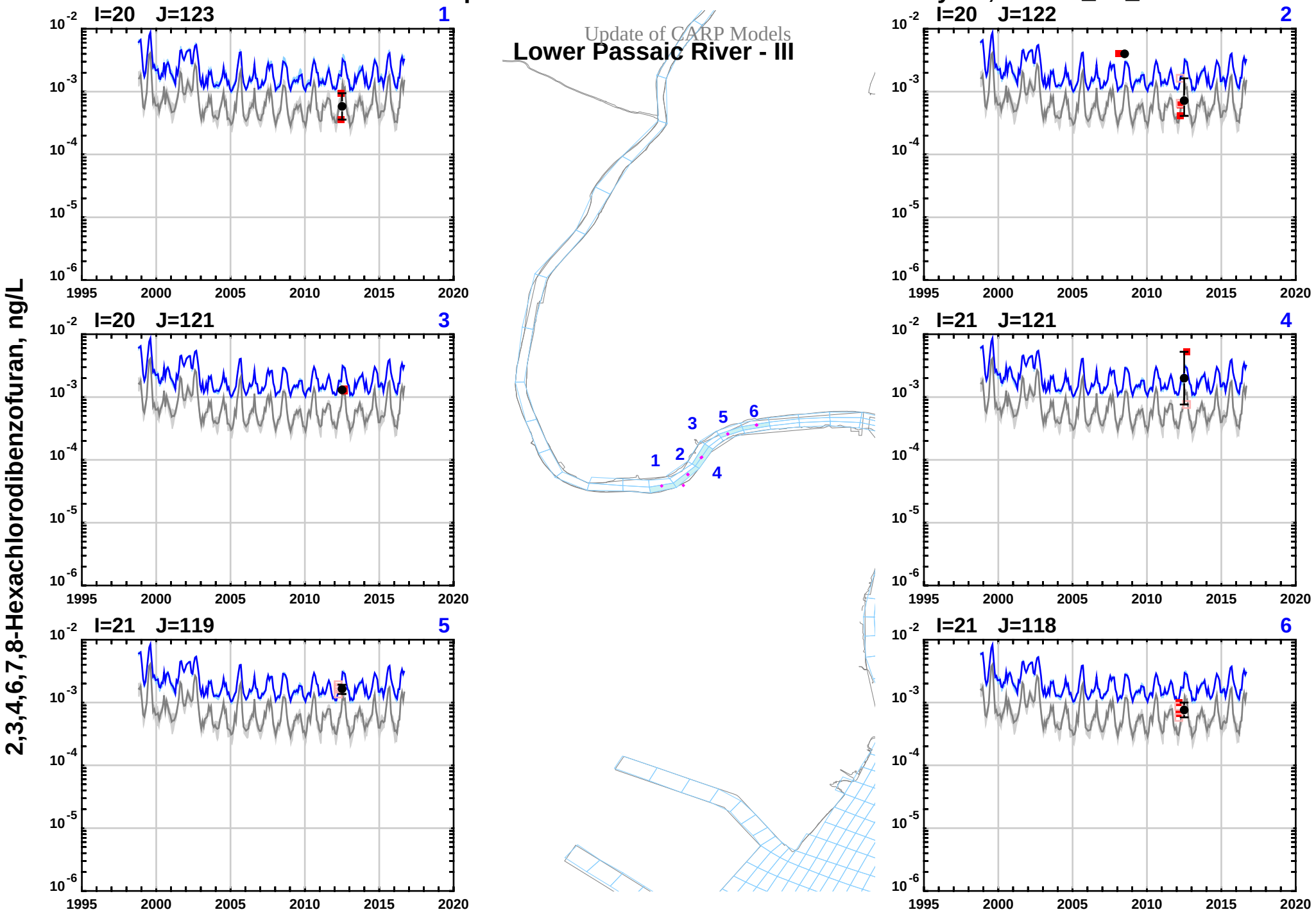
Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2



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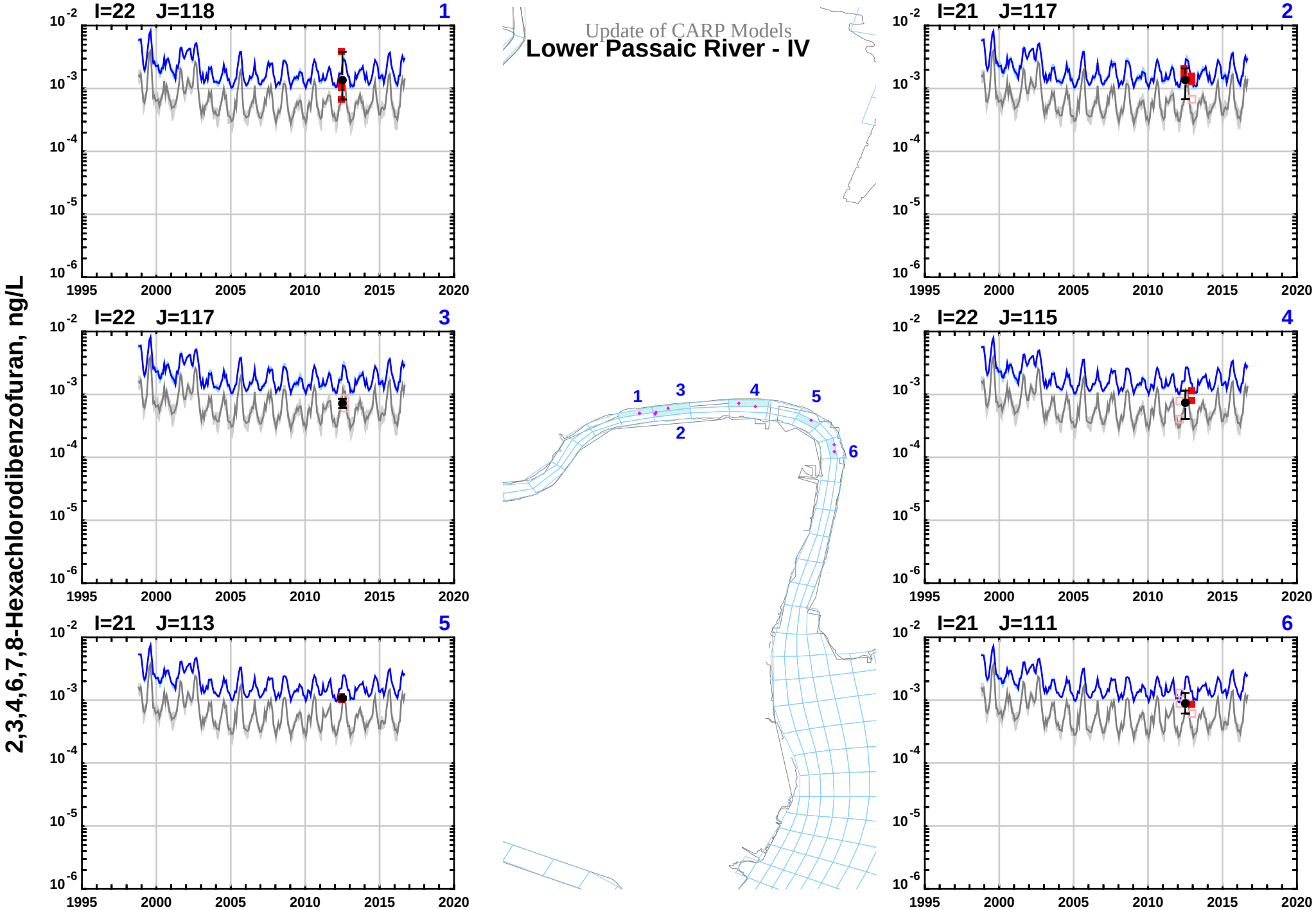
Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2



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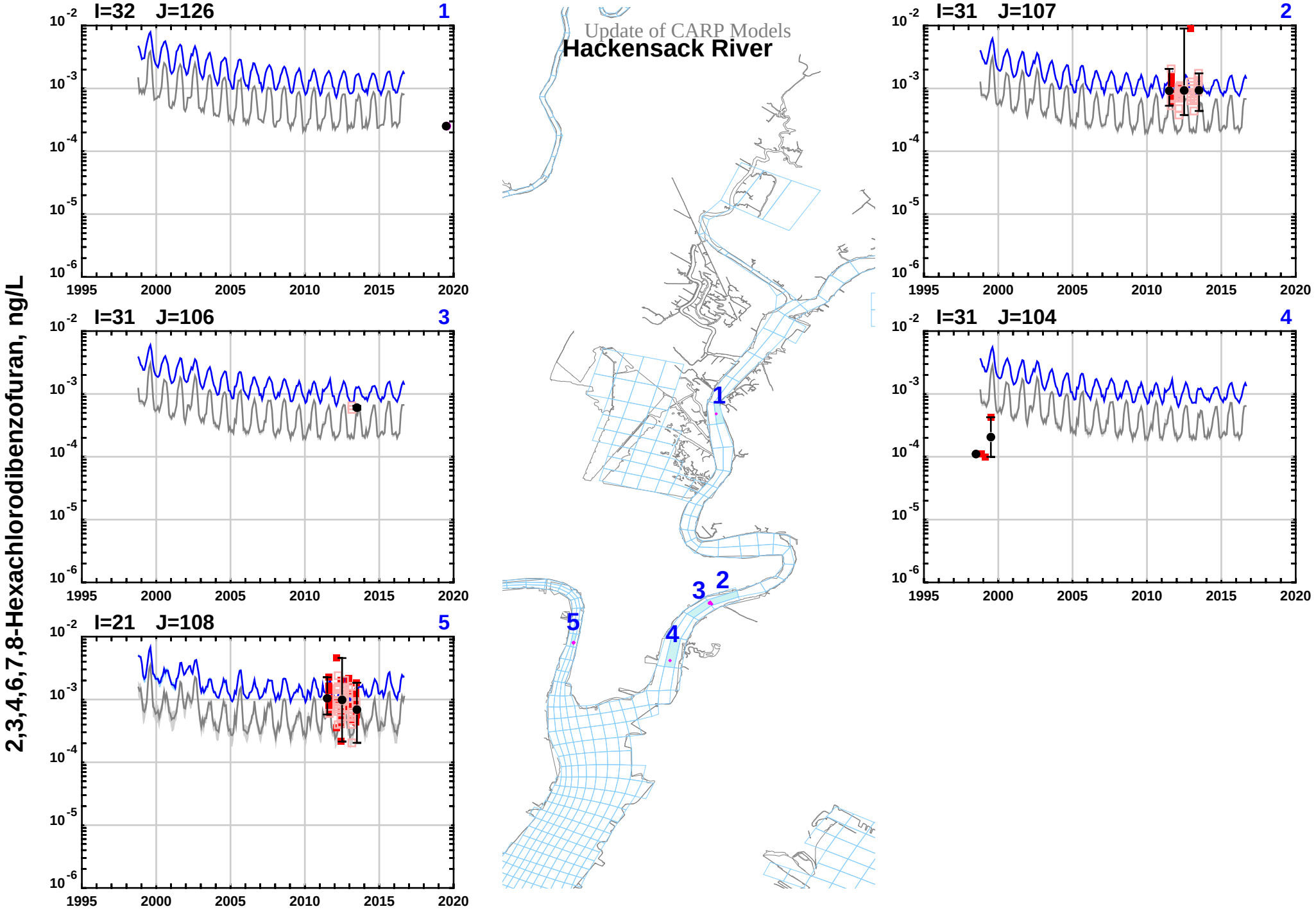
Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2



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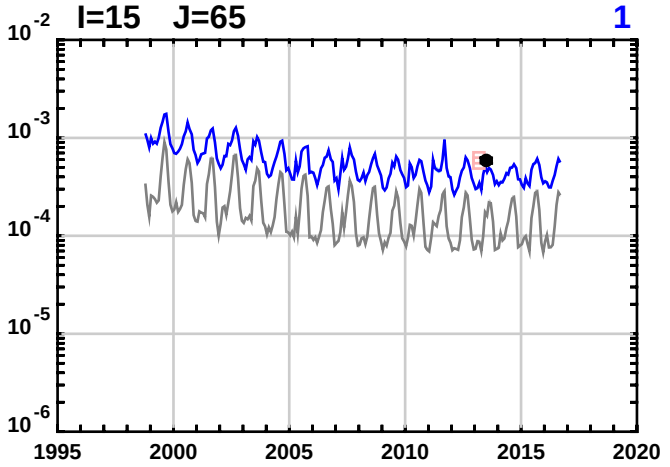
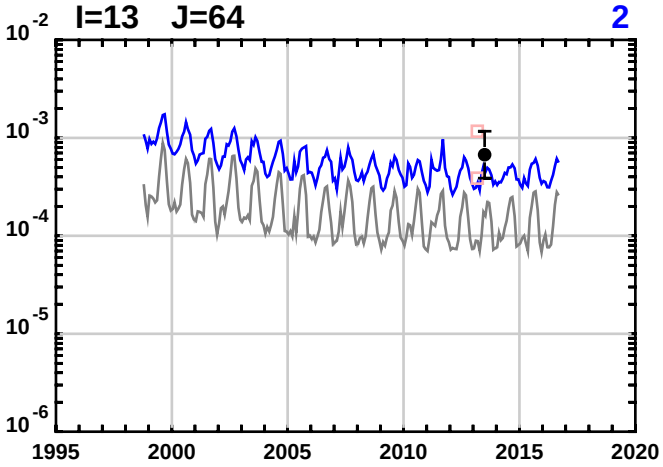
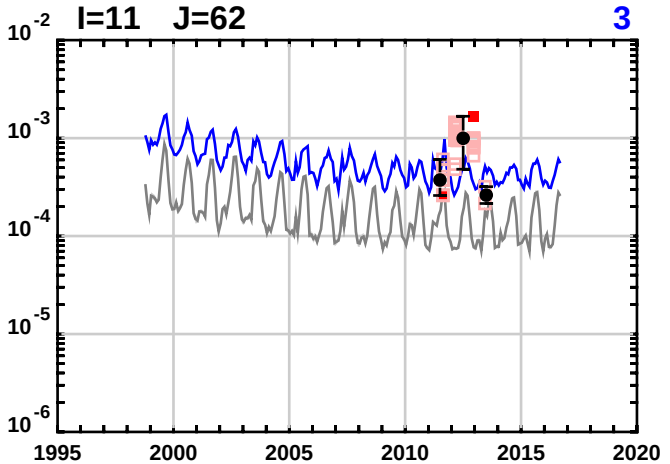
Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2

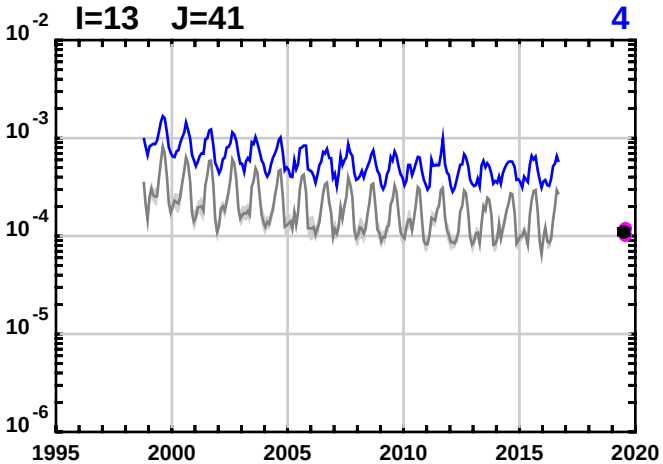
Update of CARP Models

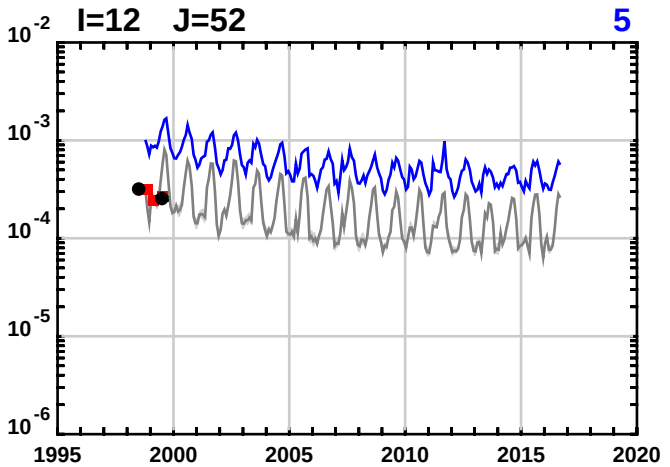
Arthur Kill

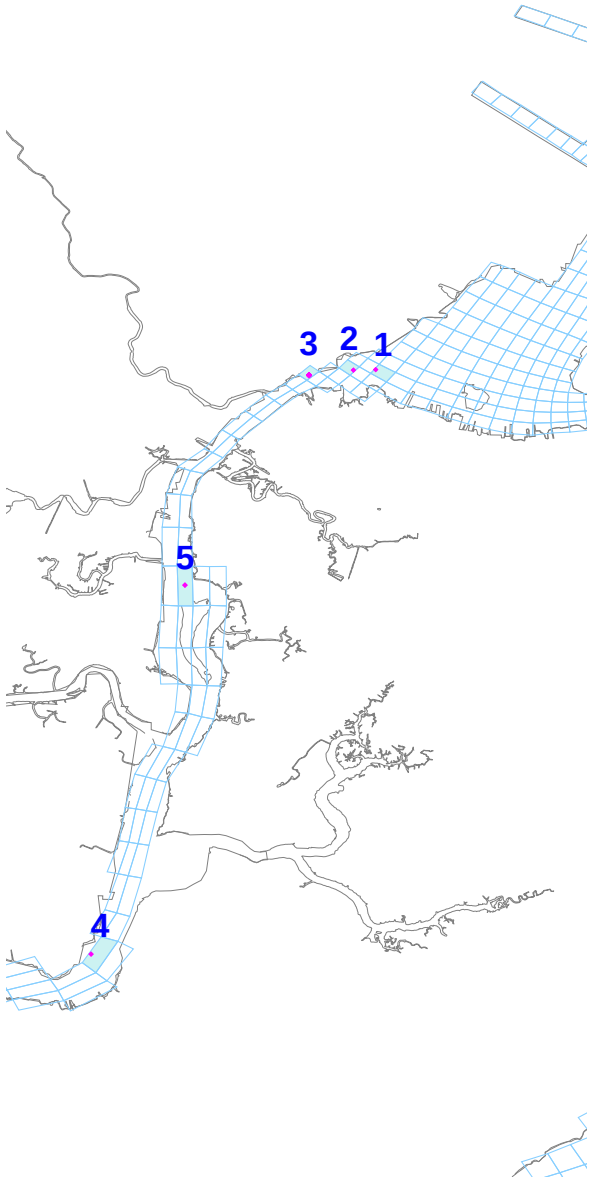












2,3,4,6,7,8-Hexachlorodibenzofuran, ng/L

Detect Data Non-Detect Data

Model: mean and range of values in Water Column

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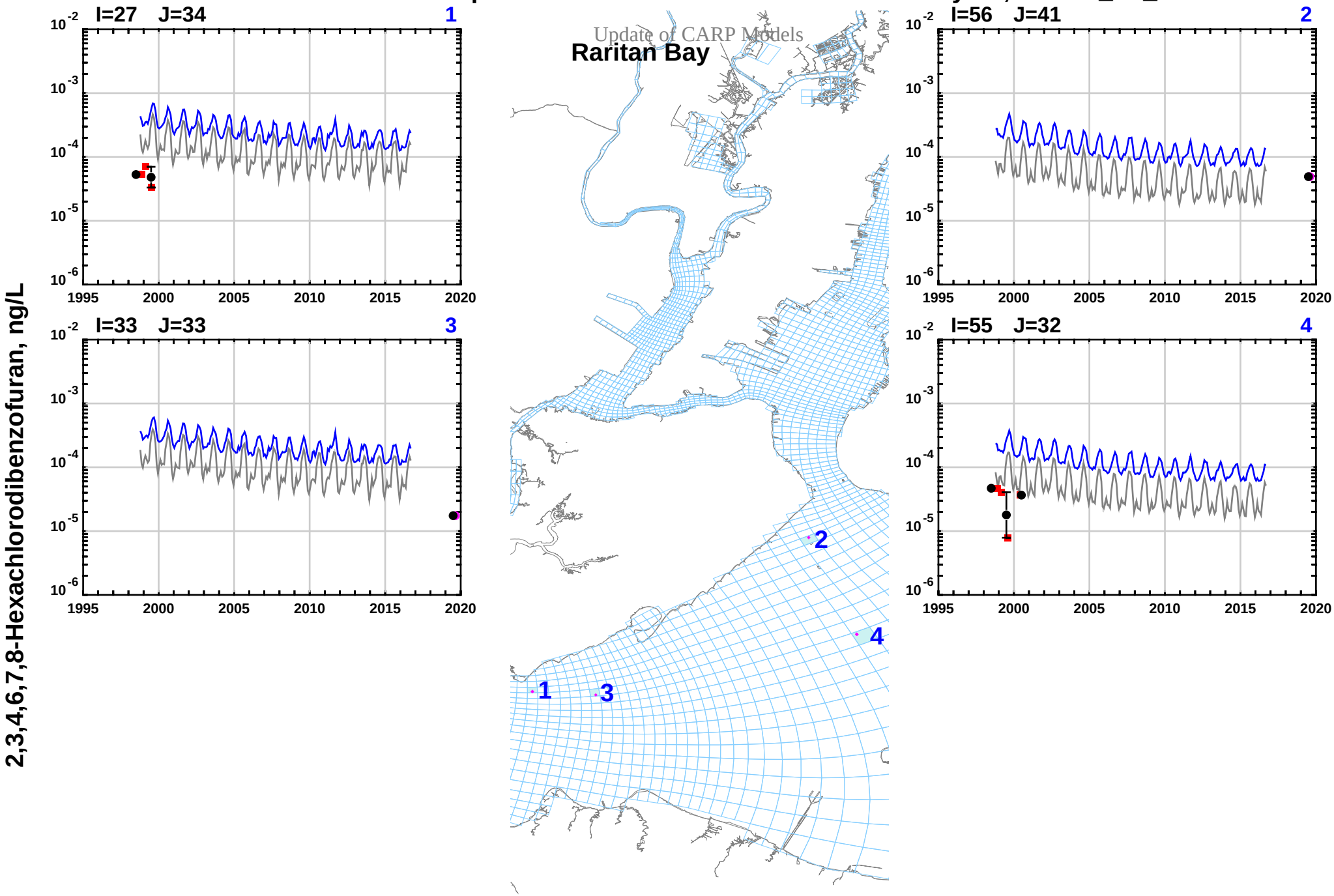
● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2



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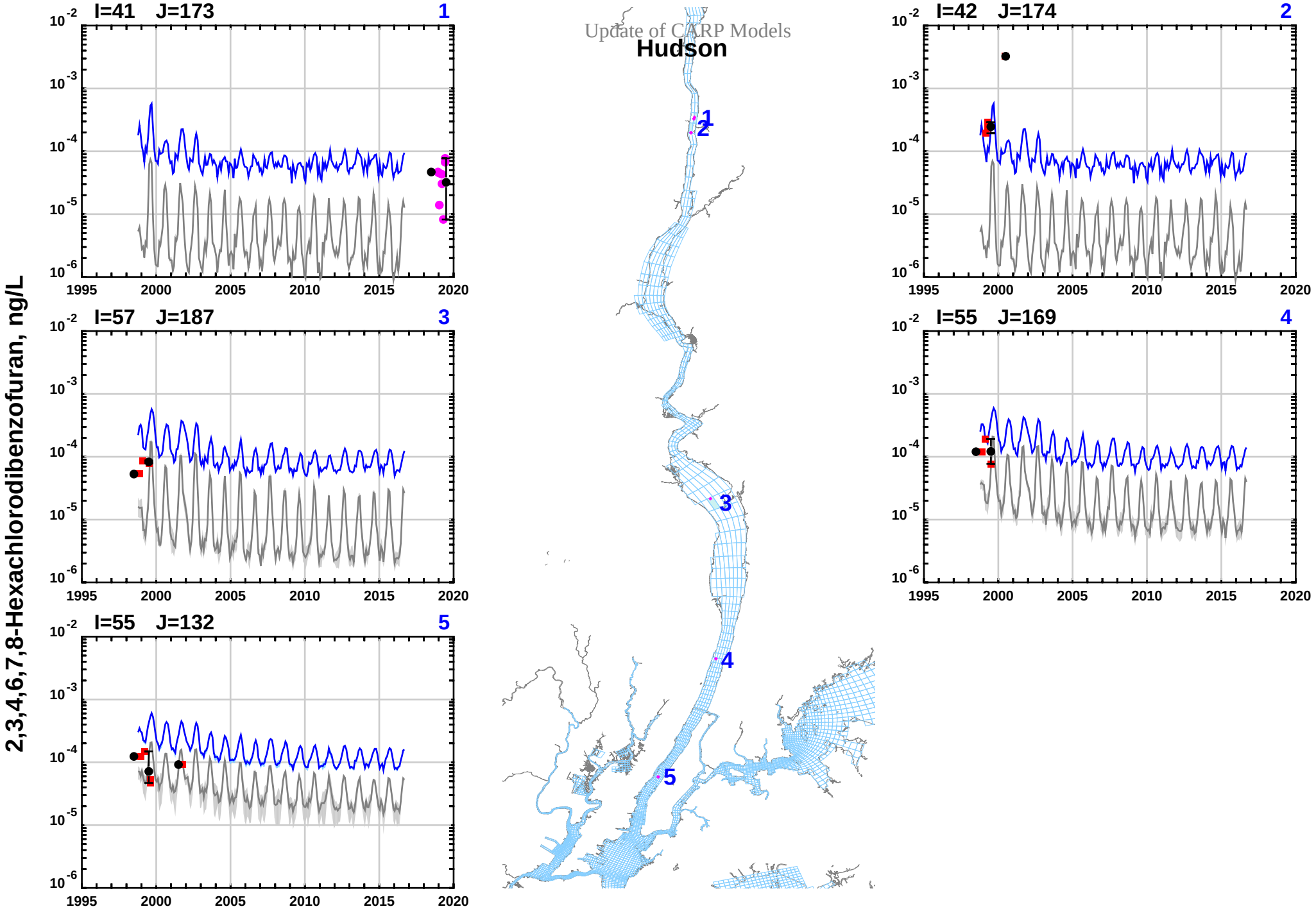

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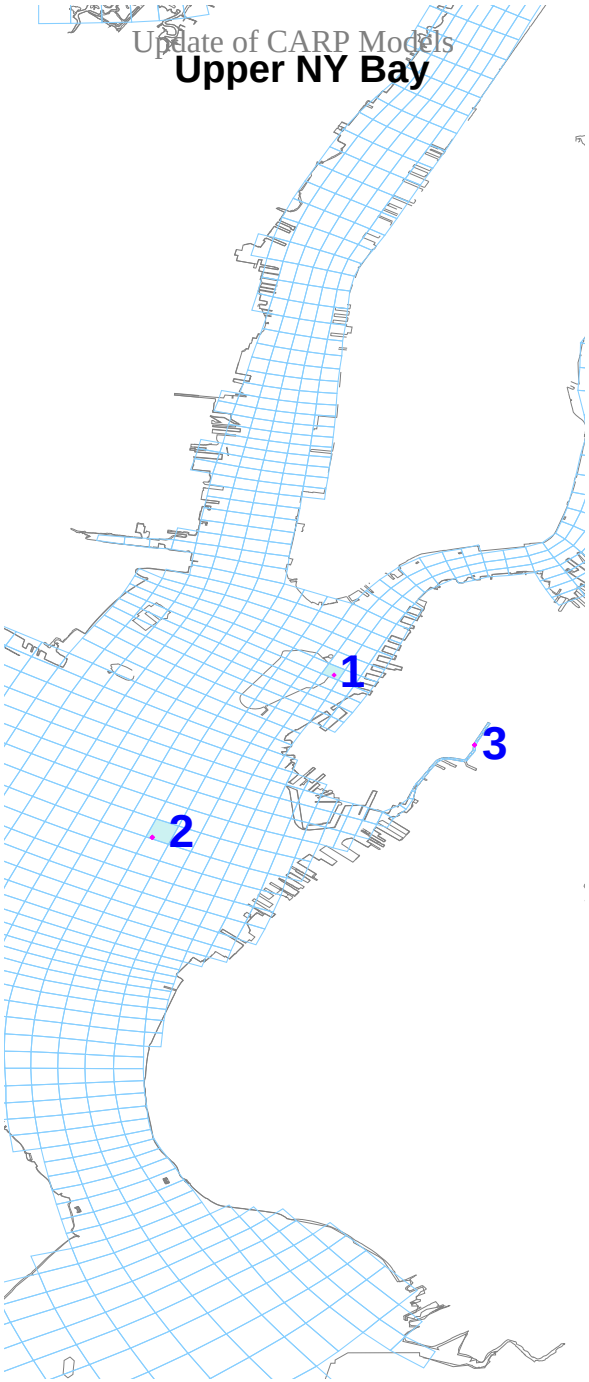
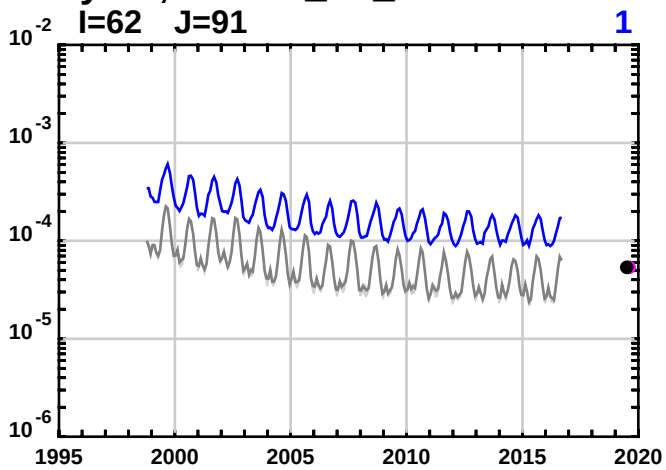
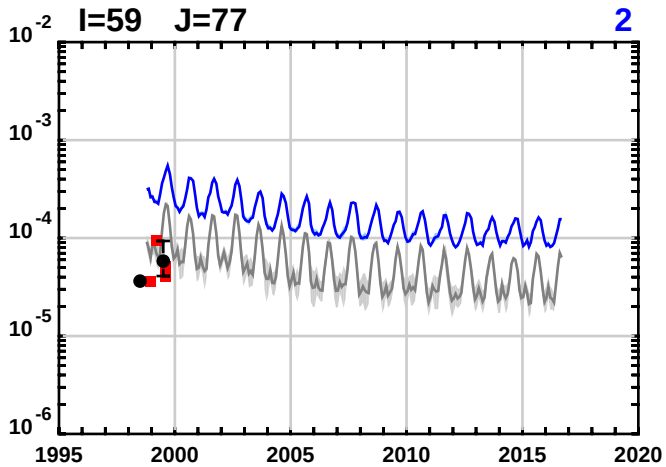
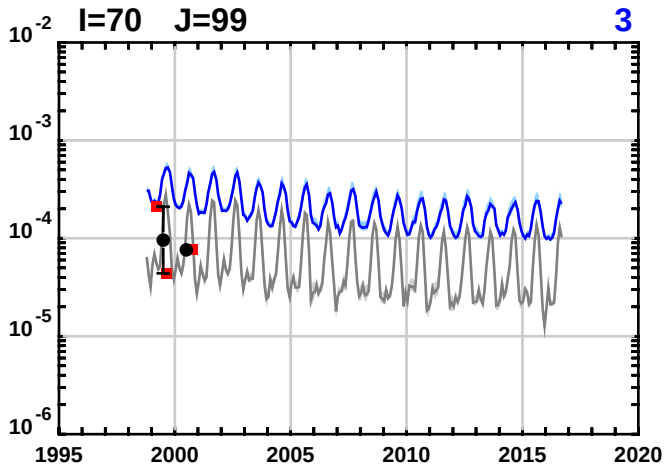
2,3,4,6,7,8-Hexachlorodibenzofuran, ng/L









Detect Data Non-Detect Data

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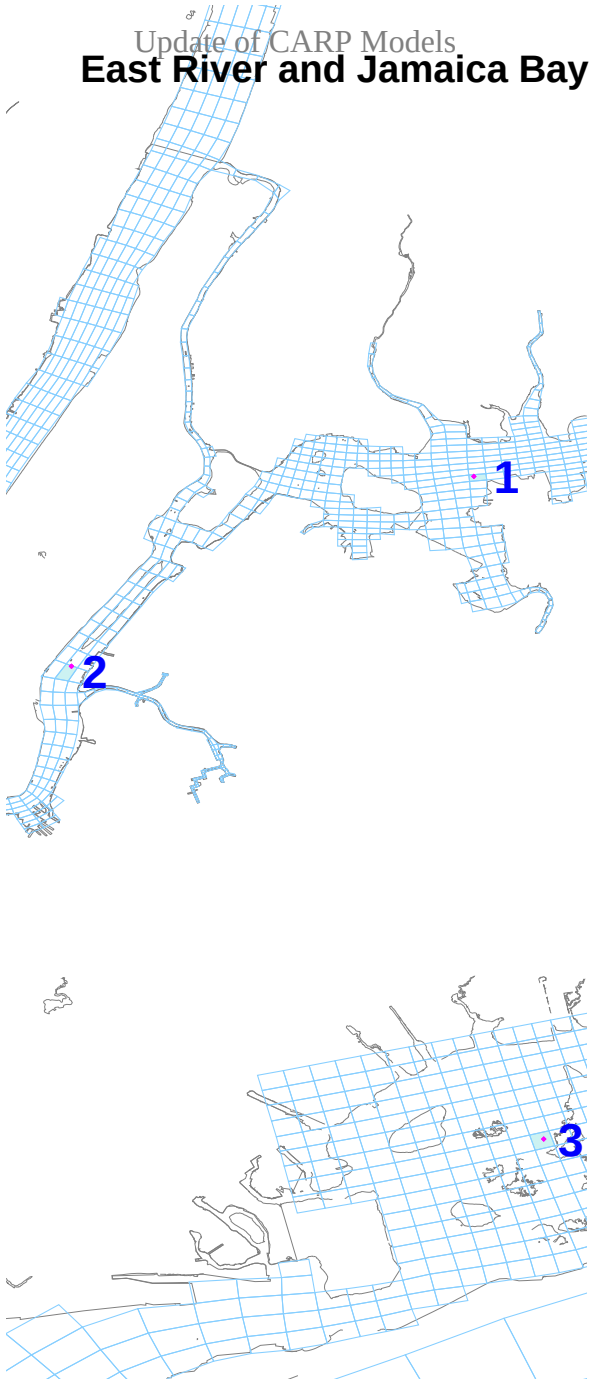
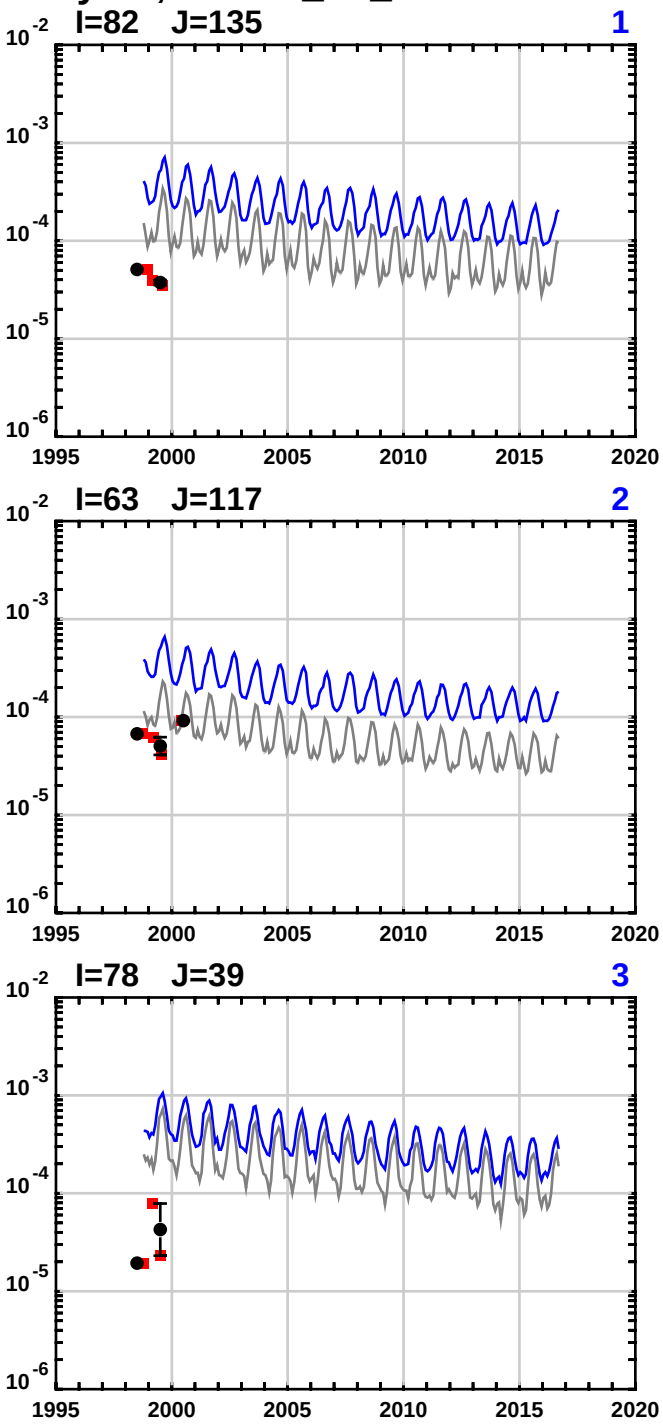
Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2

East River and Jamaica Bay





2,3,4,6,7,8-Hexachlorodibenzofuran, ng/L

Detect Data Non-Detect Data

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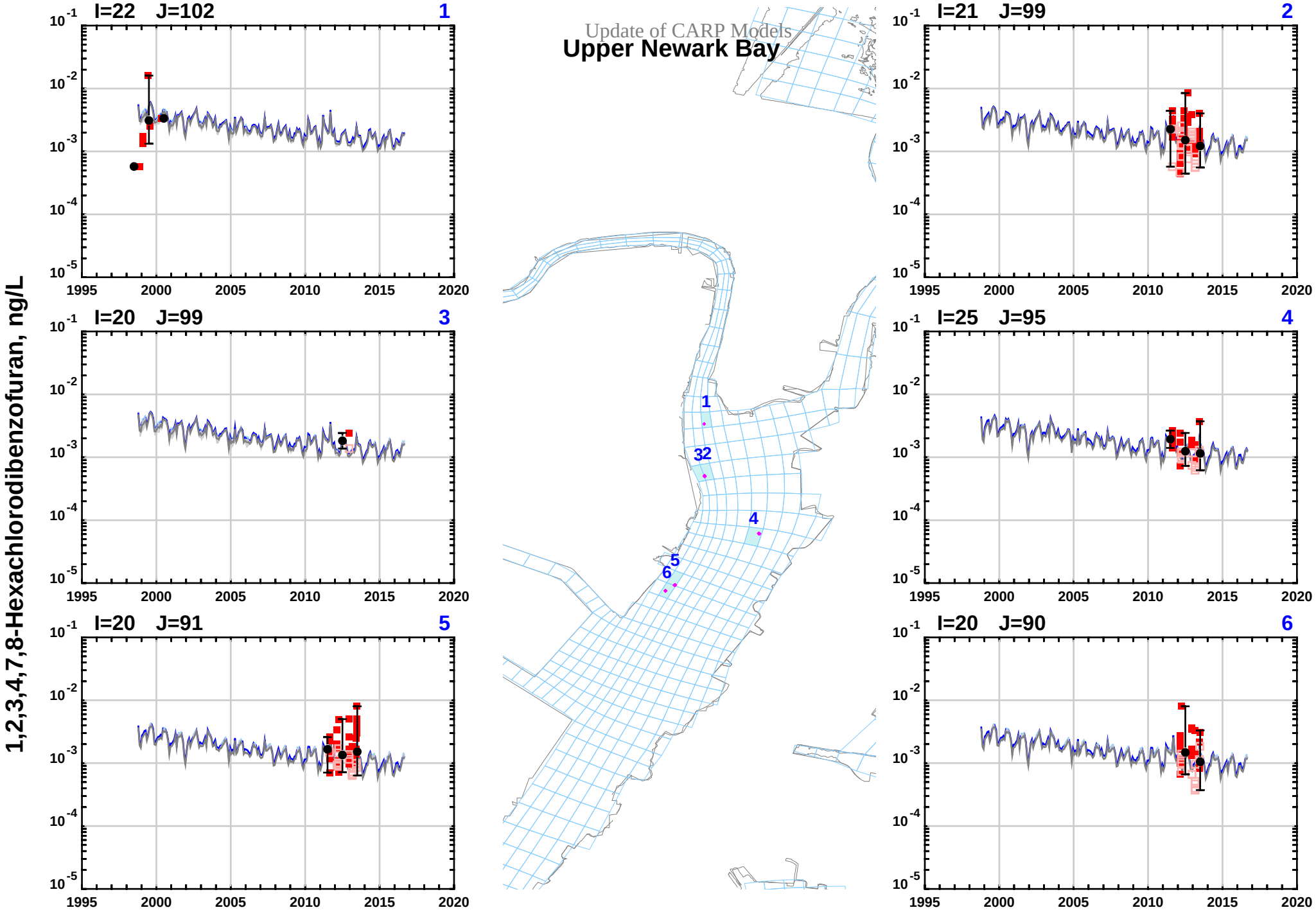
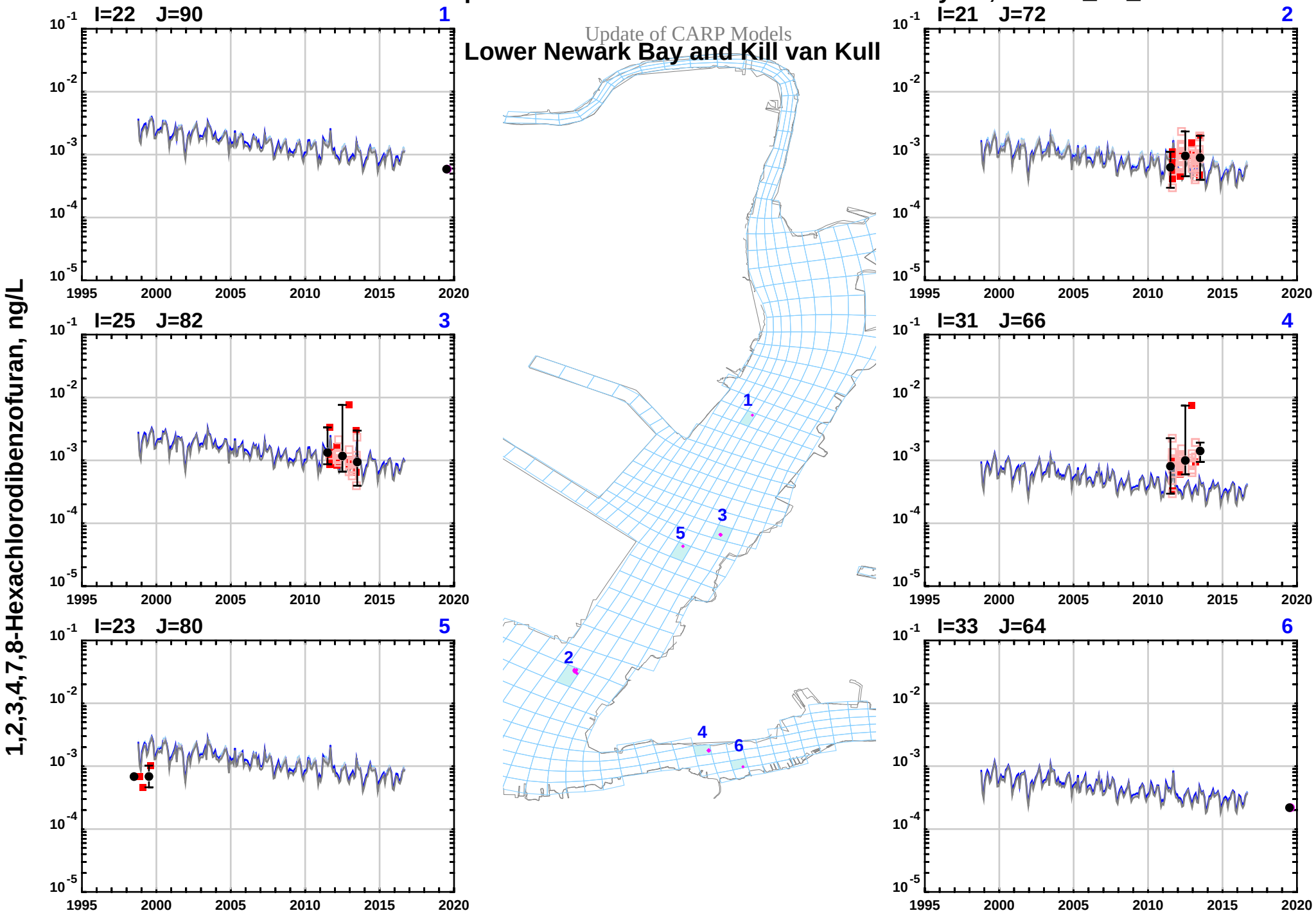
● Water Column Data: yearly mean and range

● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2



Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2



Detect Data Non-Detect Data

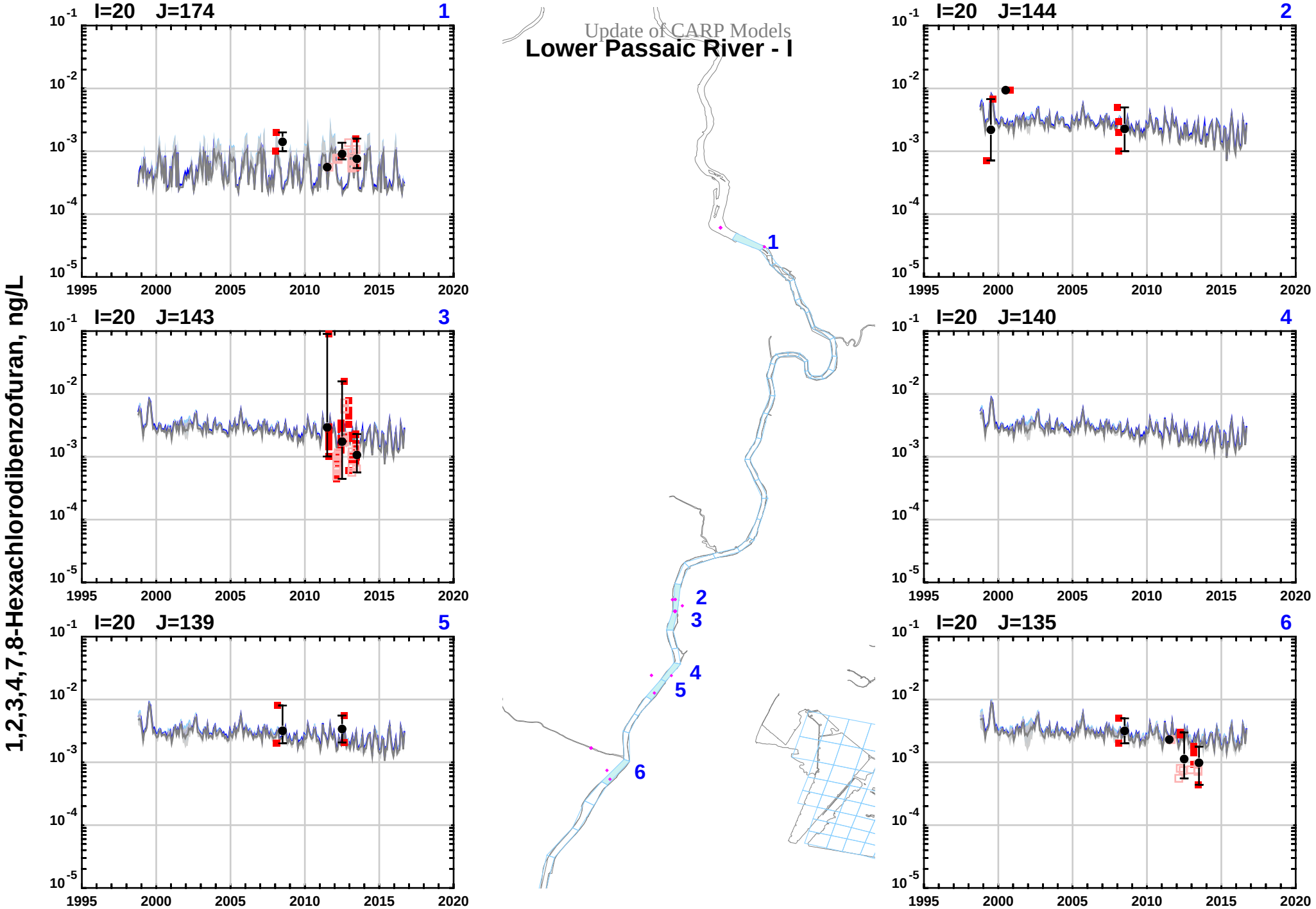
Model: mean and range of values in Water Column

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

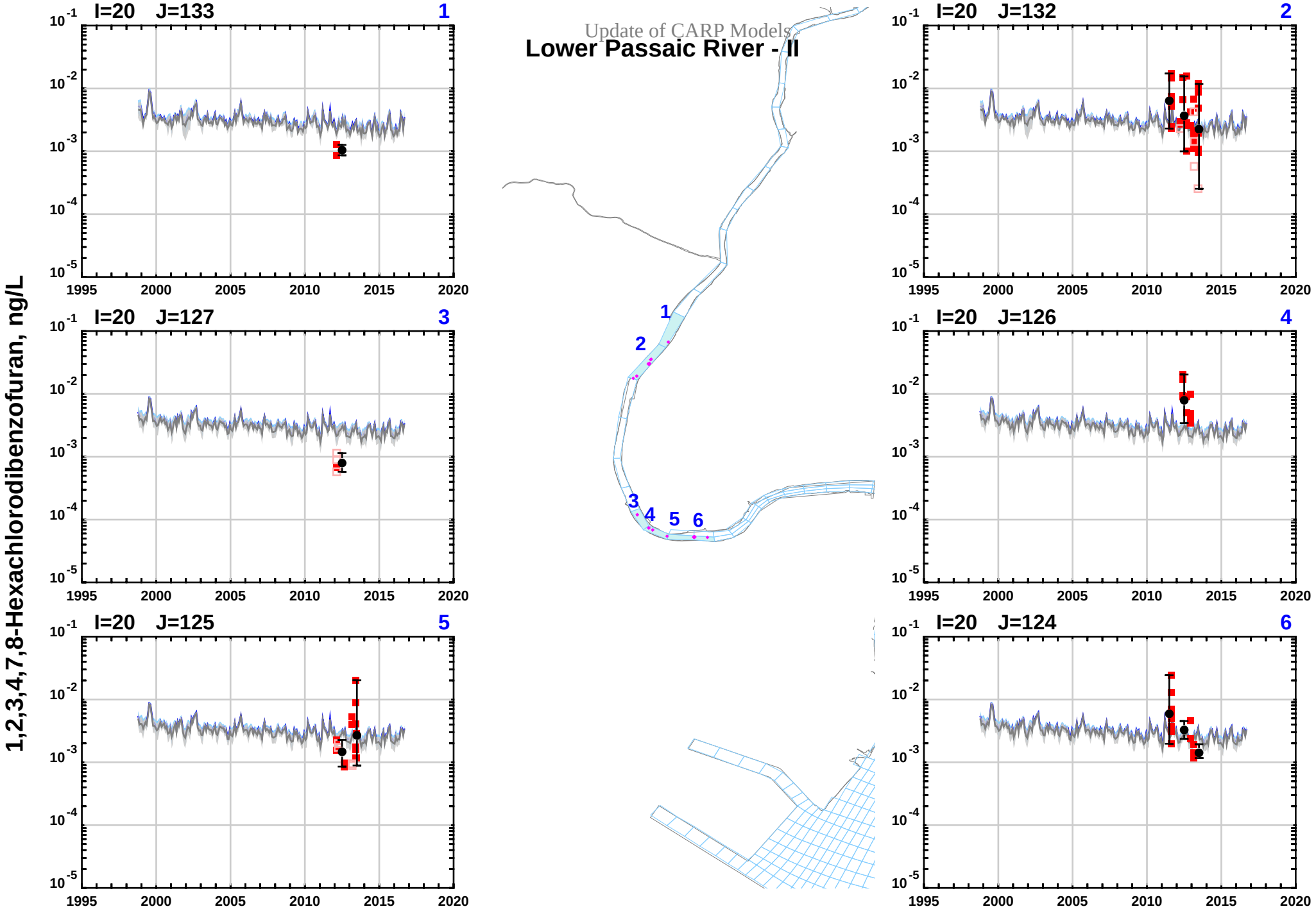
Water Column Data: yearly mean and range

CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2



Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2



Detect Data Non-Detect Data

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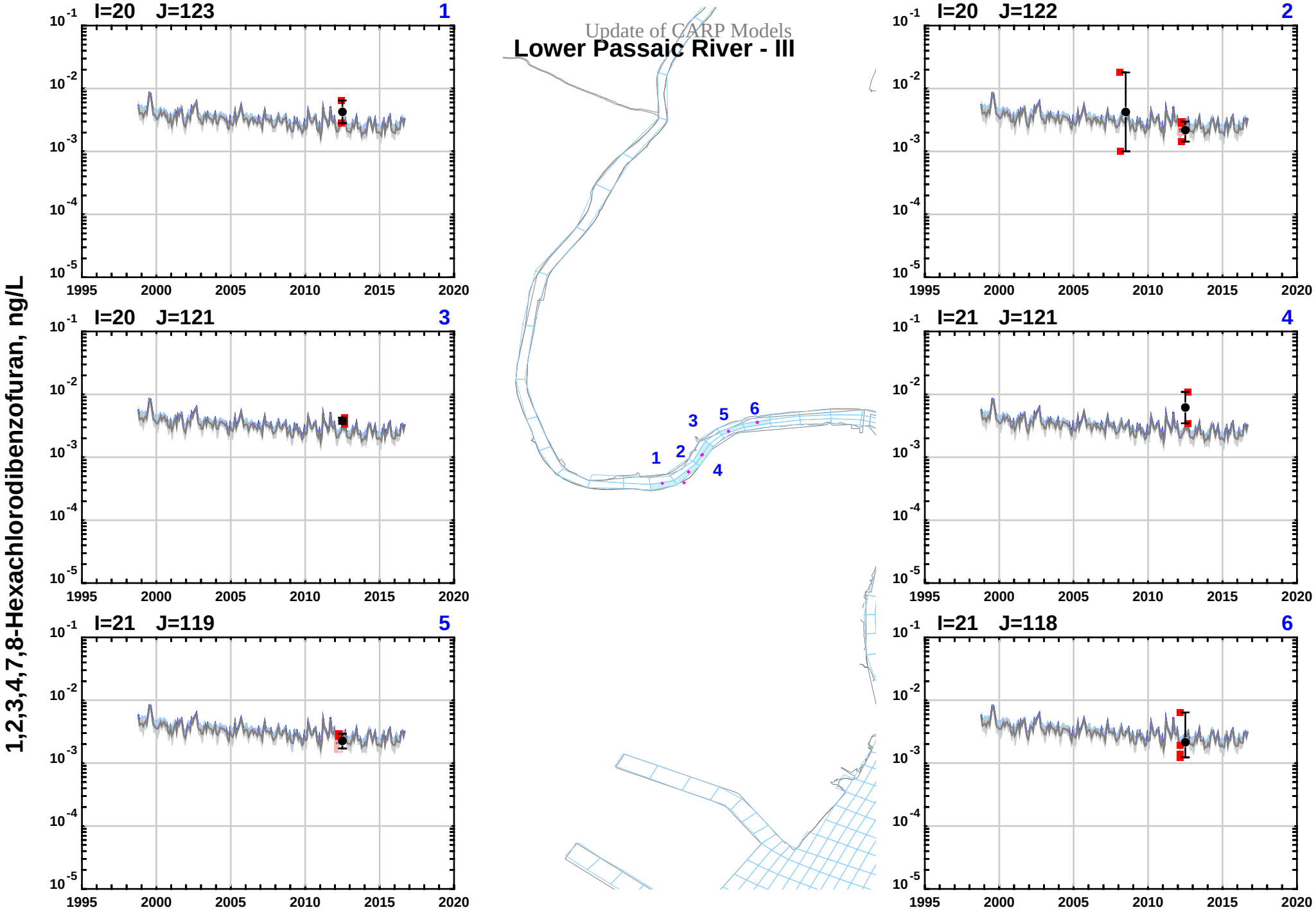
Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2



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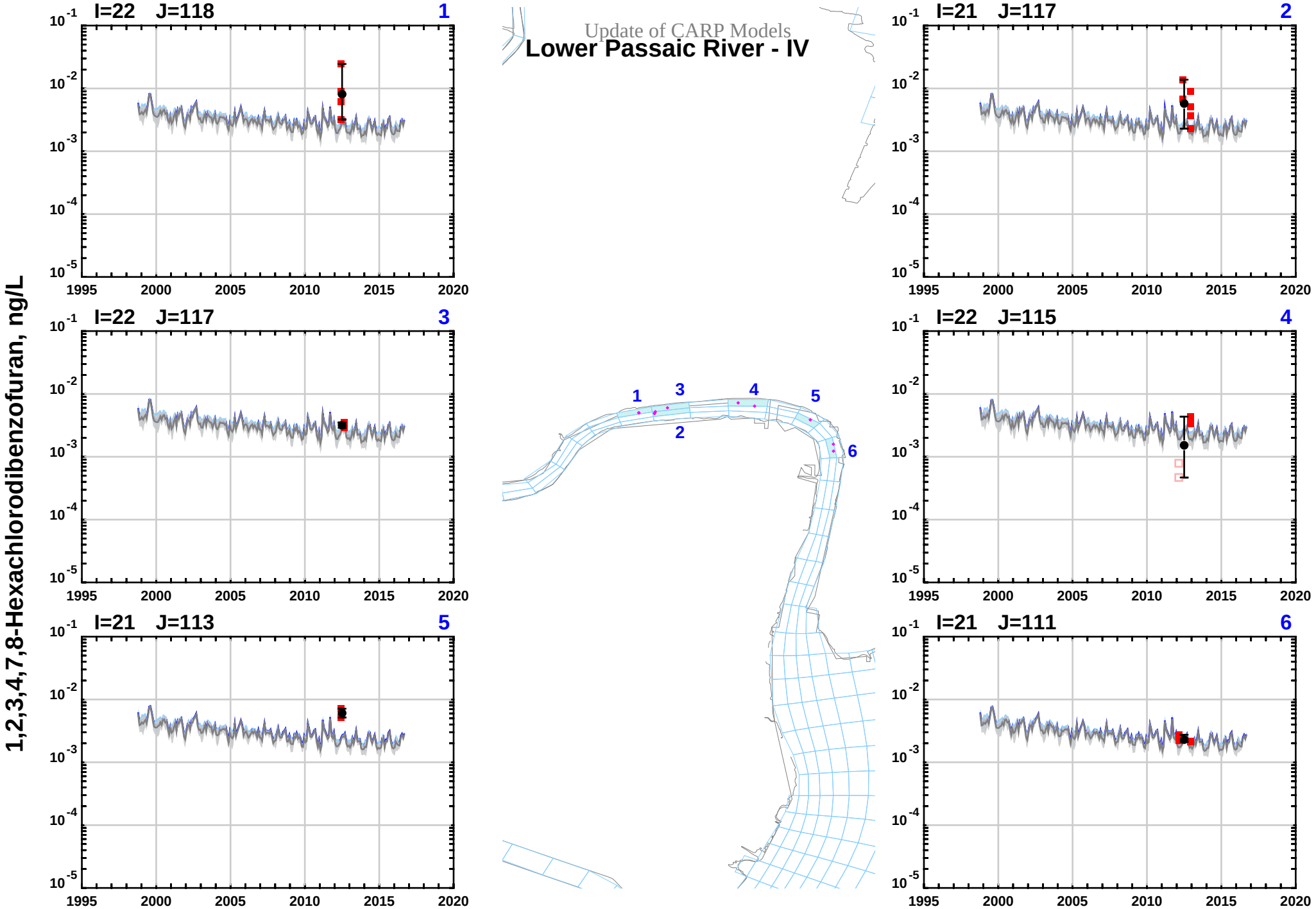

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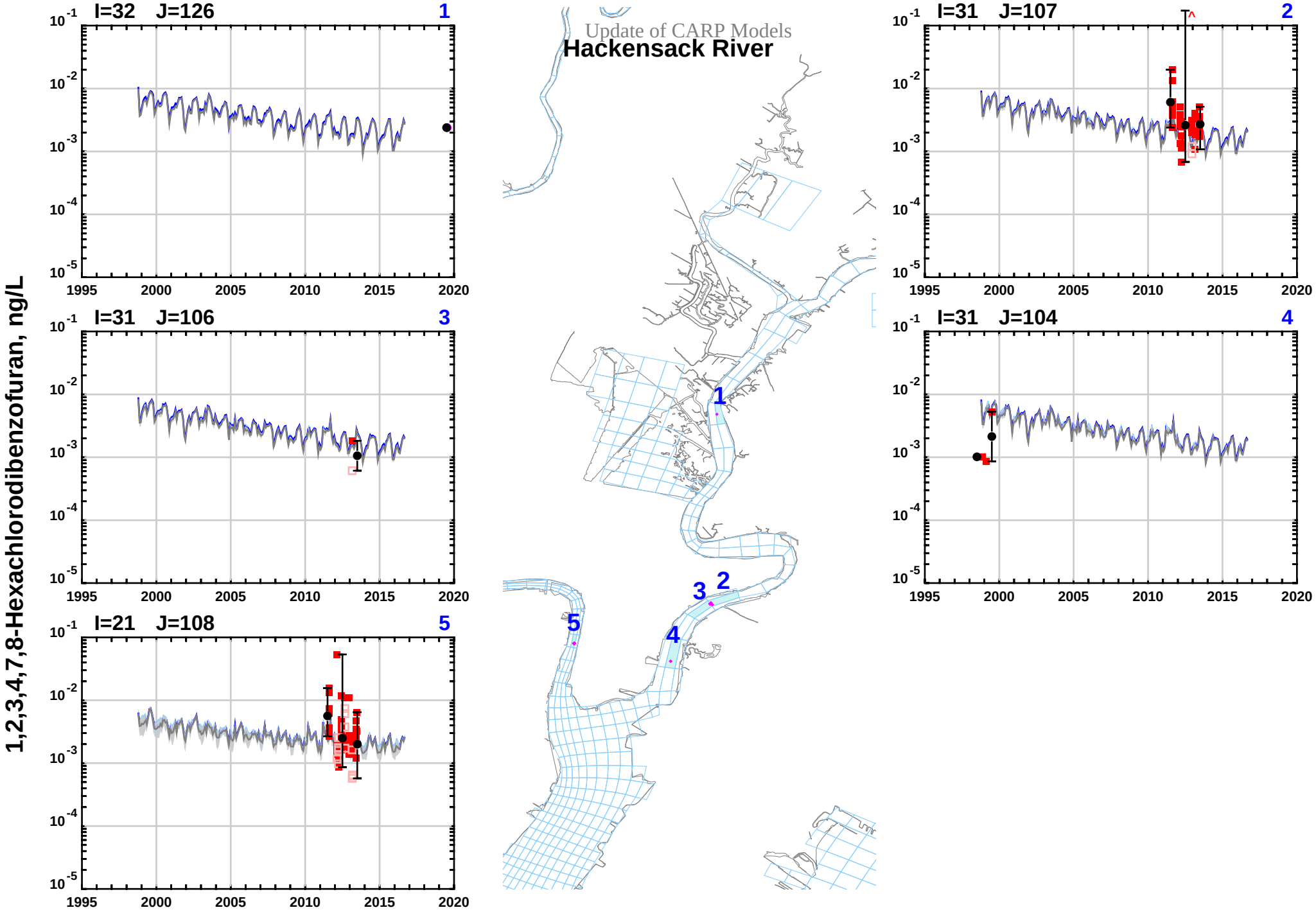

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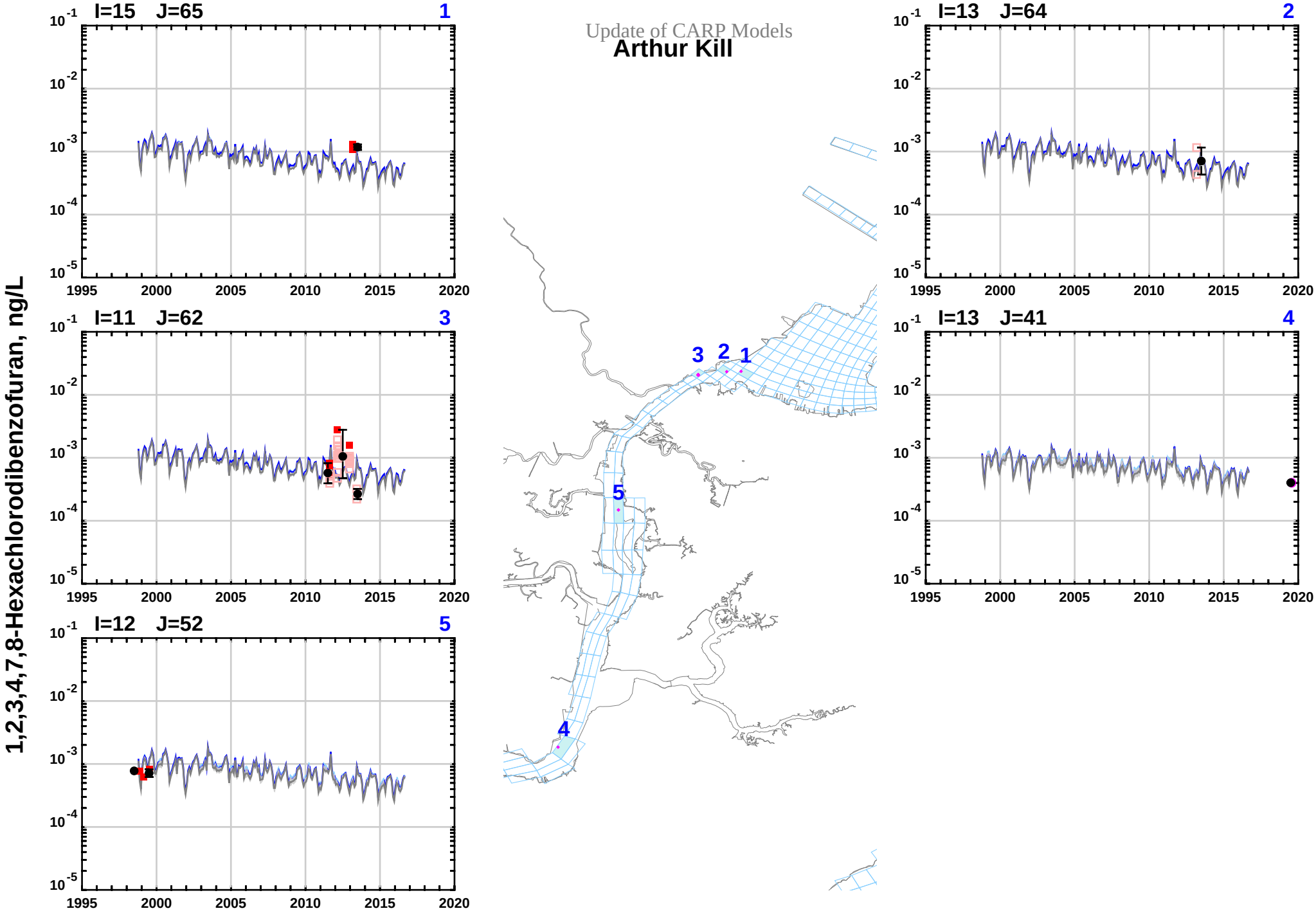
Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2

Update of CARP Models

Arthur Kill



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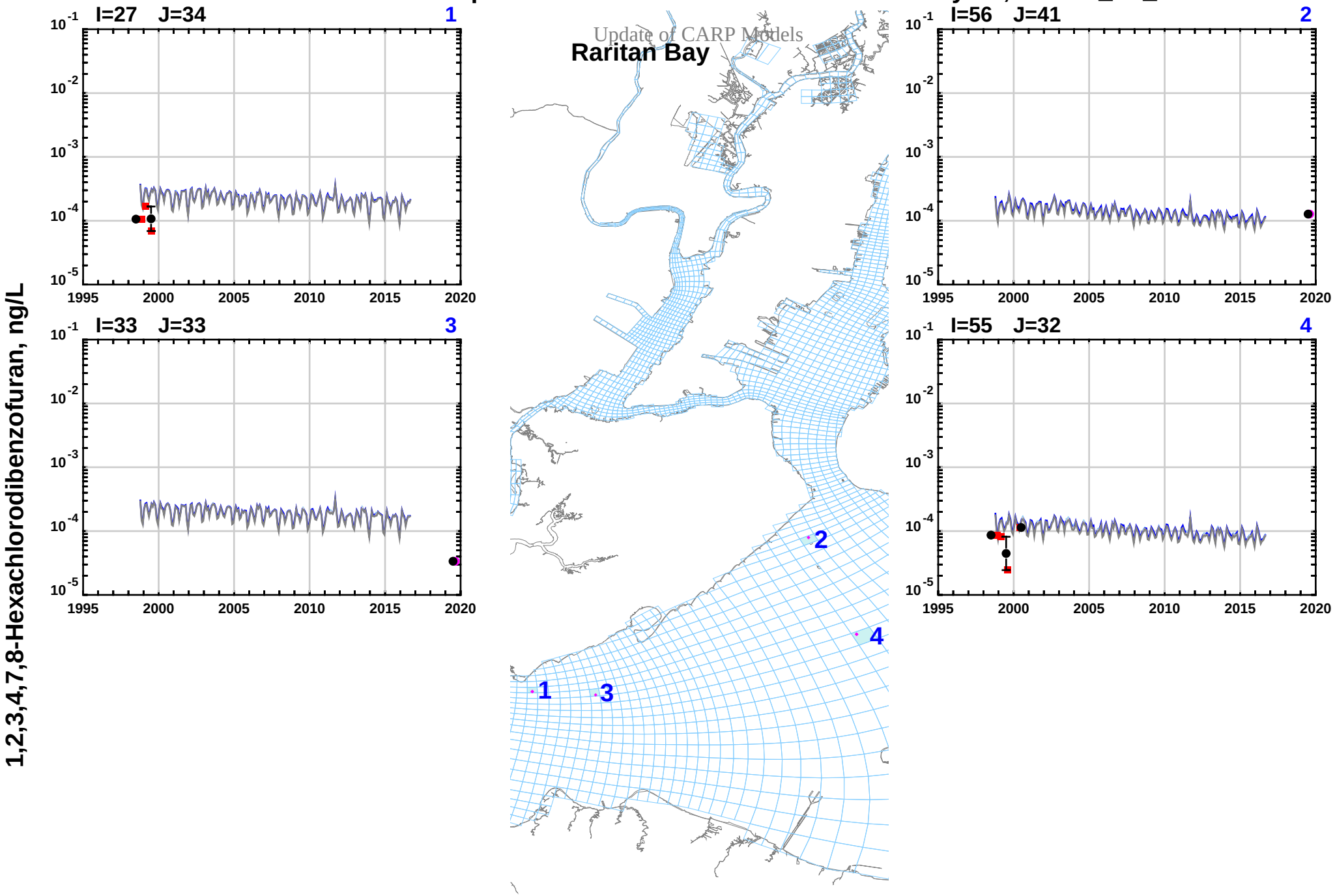

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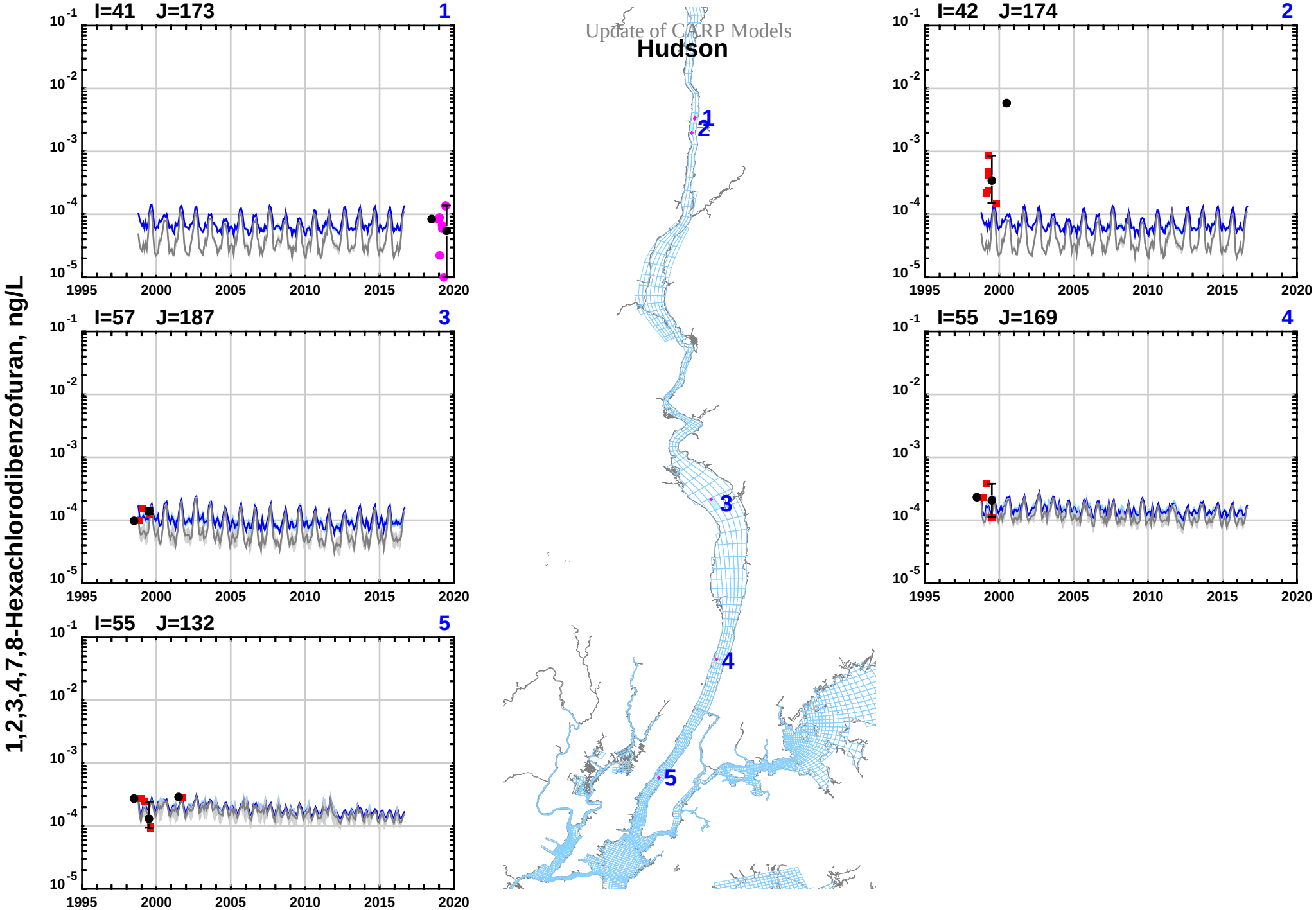

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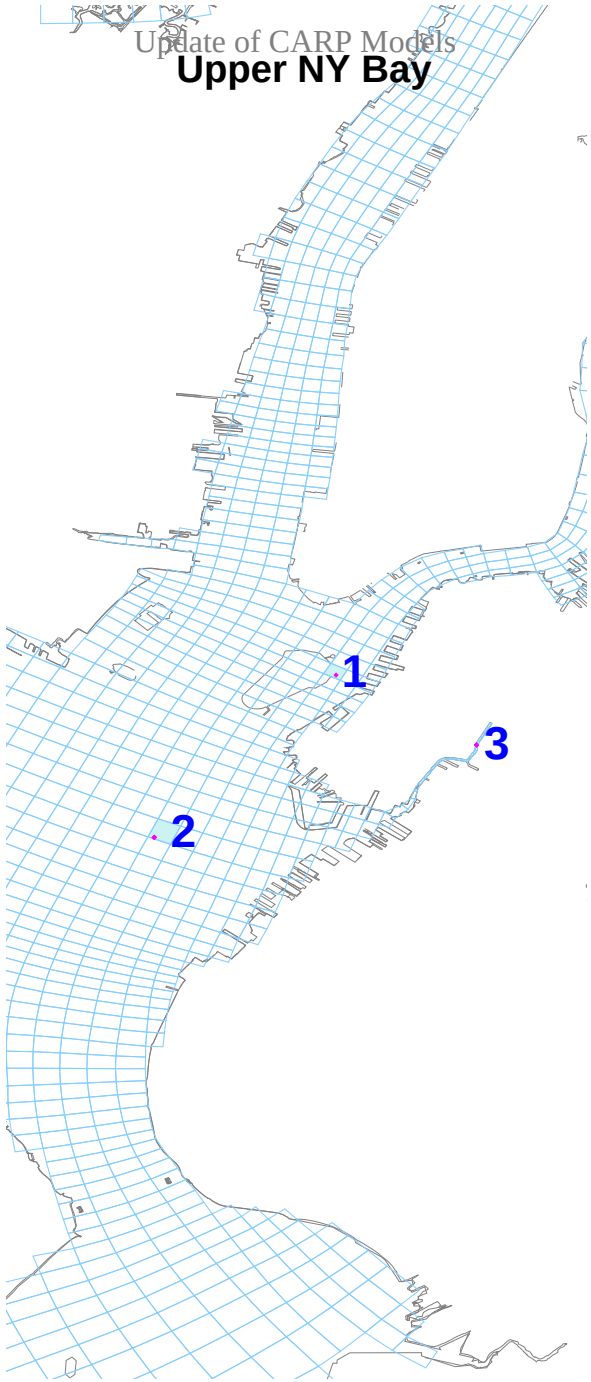
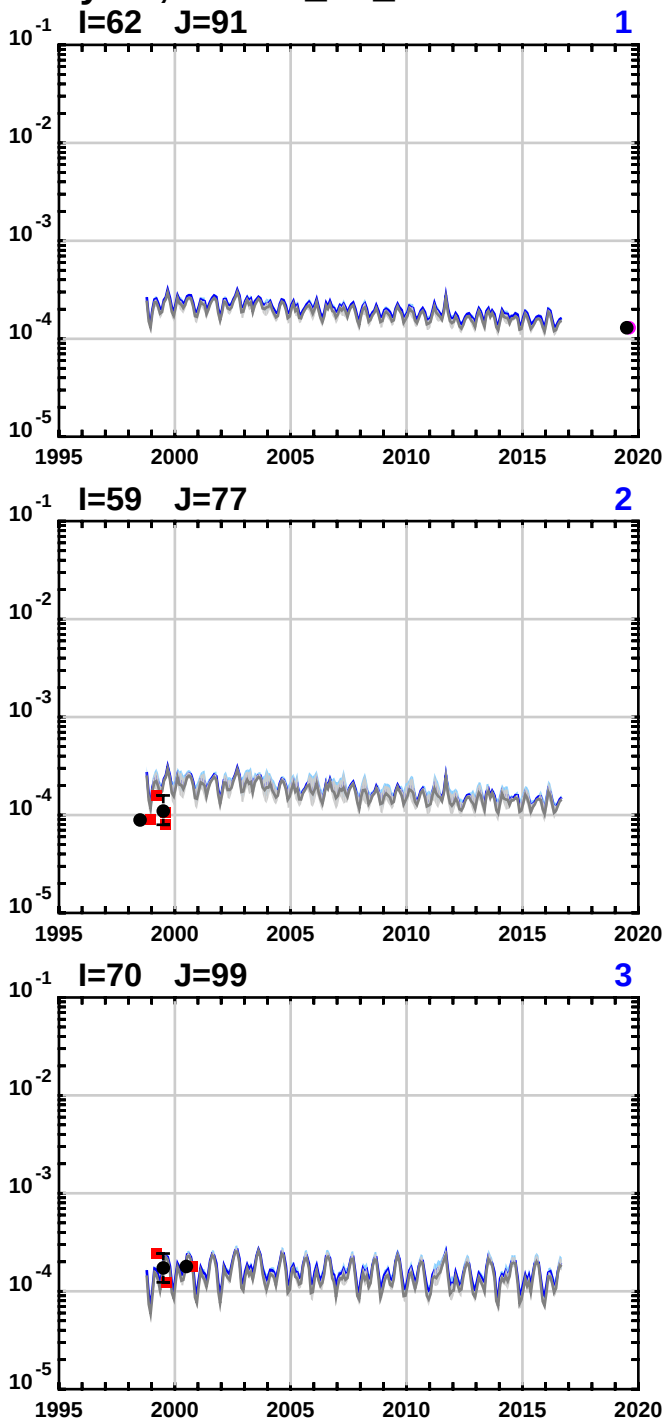
1,2,3,4,7,8-Hexachlorodibenzofuran, ng/L





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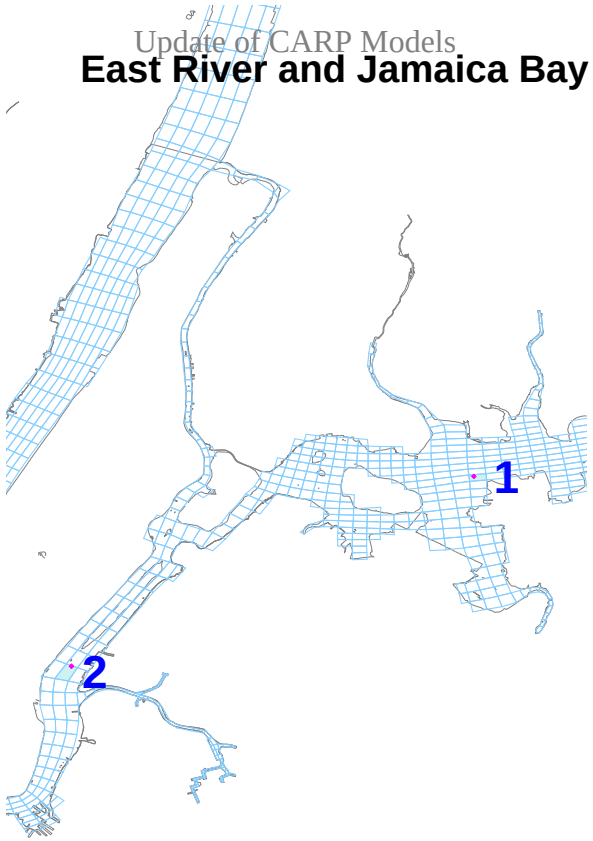
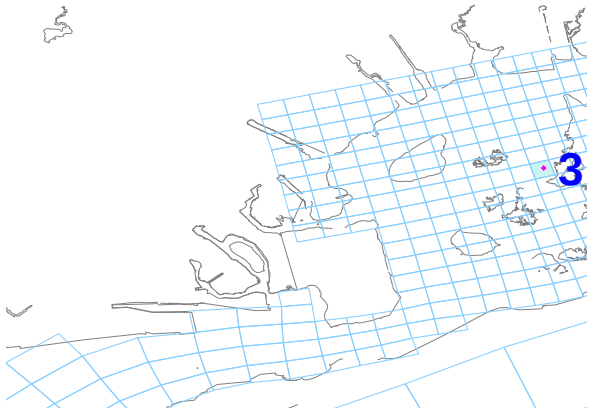
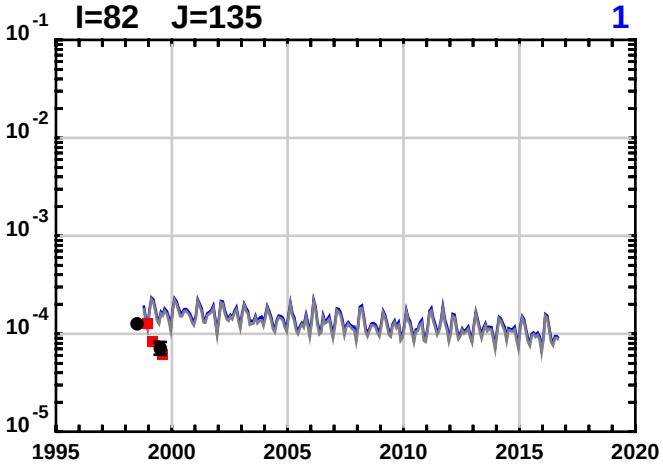
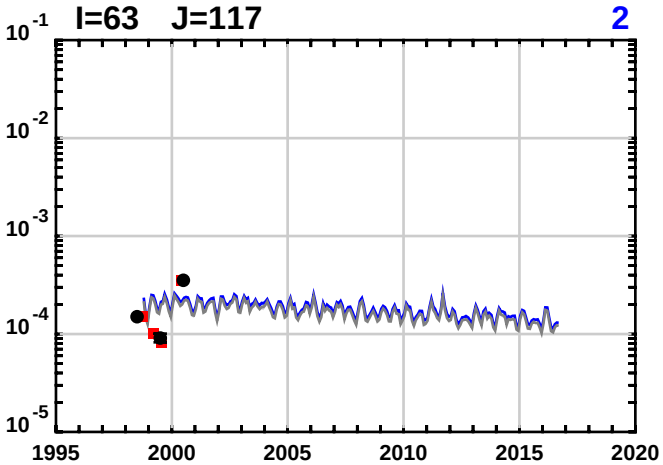
Update of CARP Models

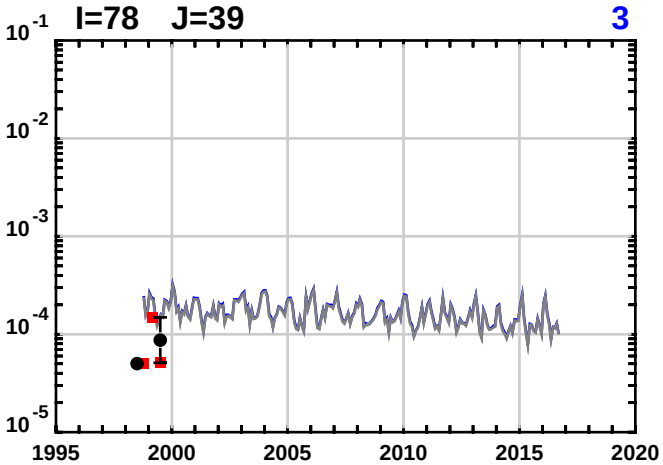
East River and Jamaica Bay











1,2,3,4,7,8-Hexachlorodibenzofuran, ng/L

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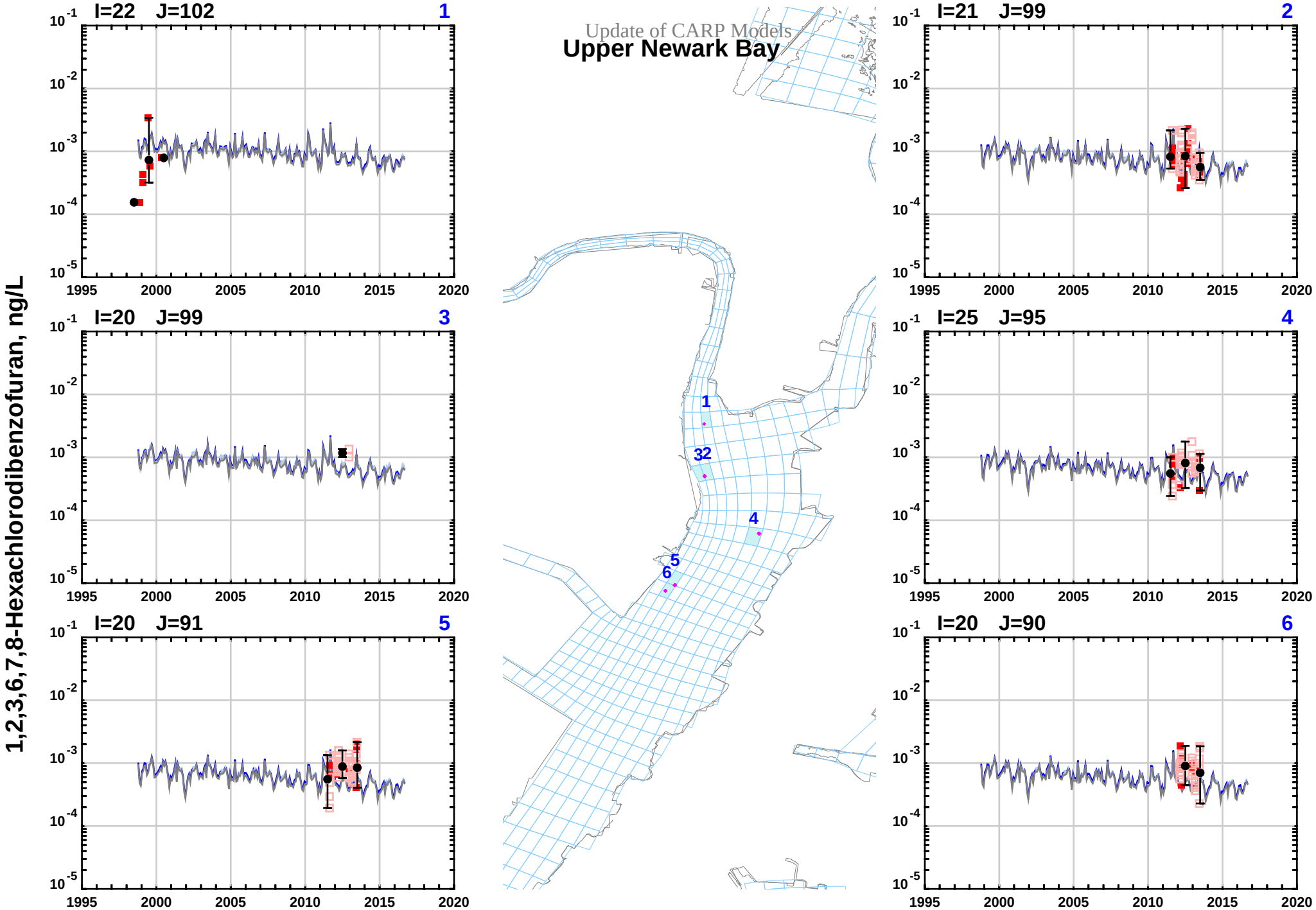

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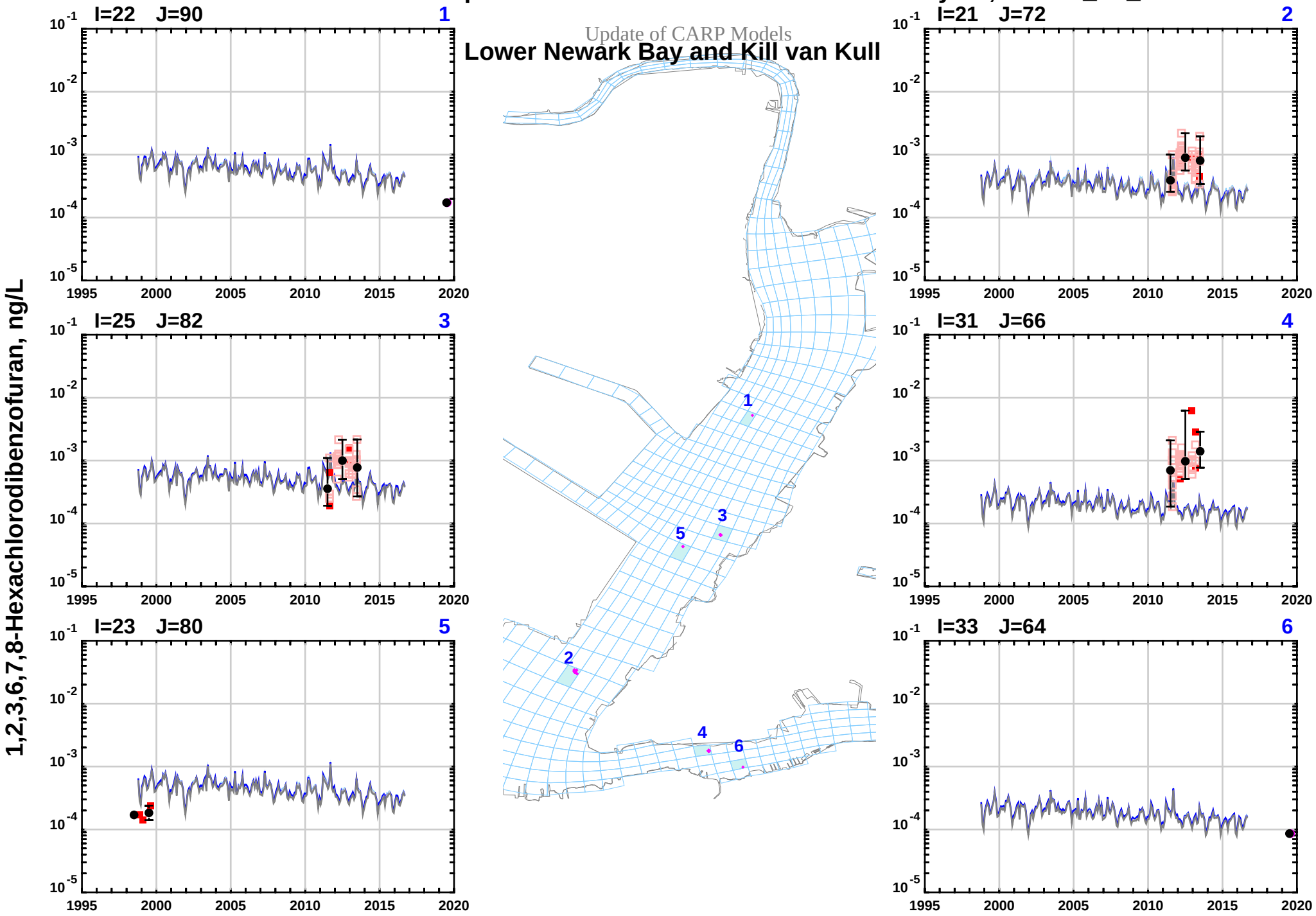

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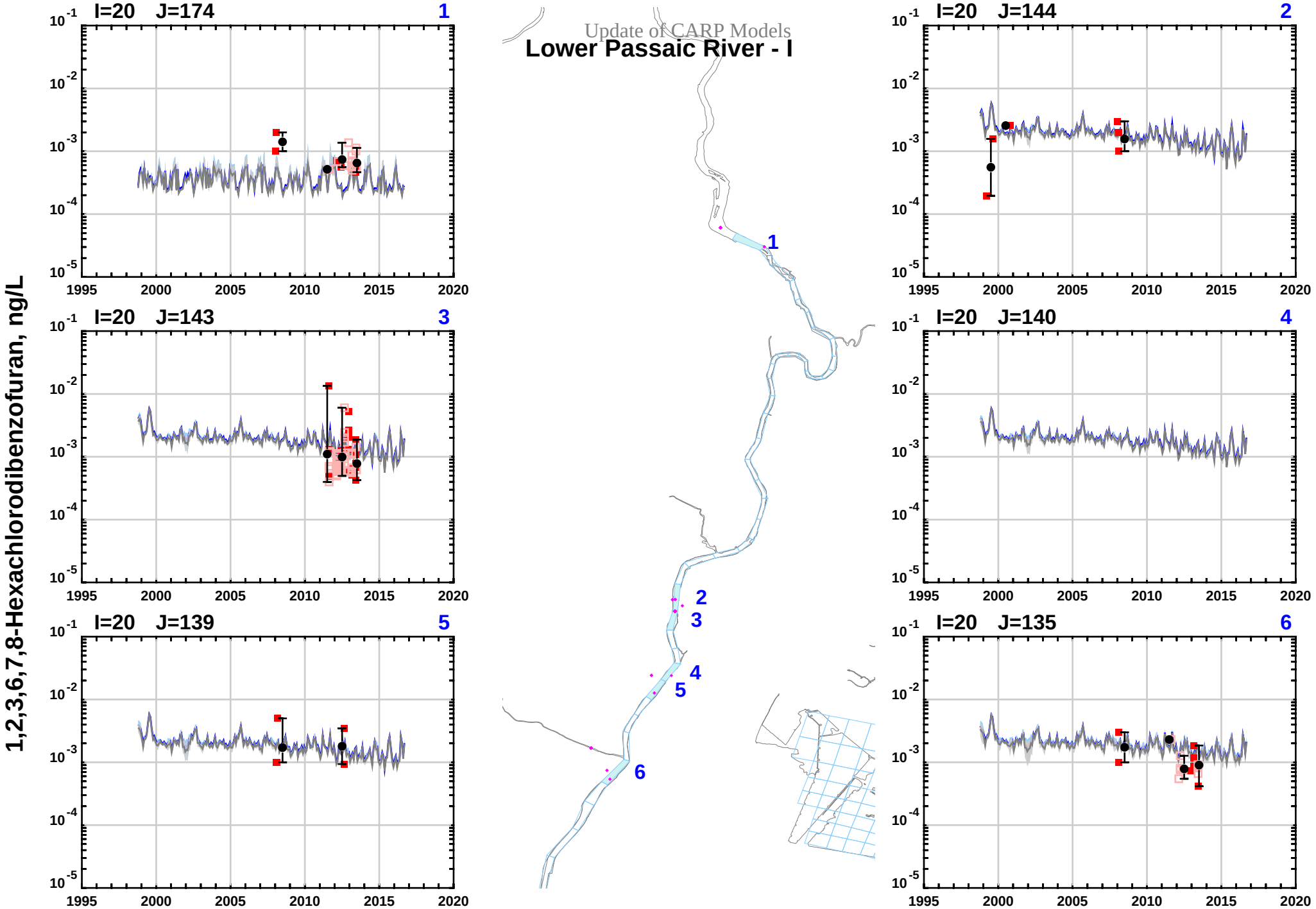

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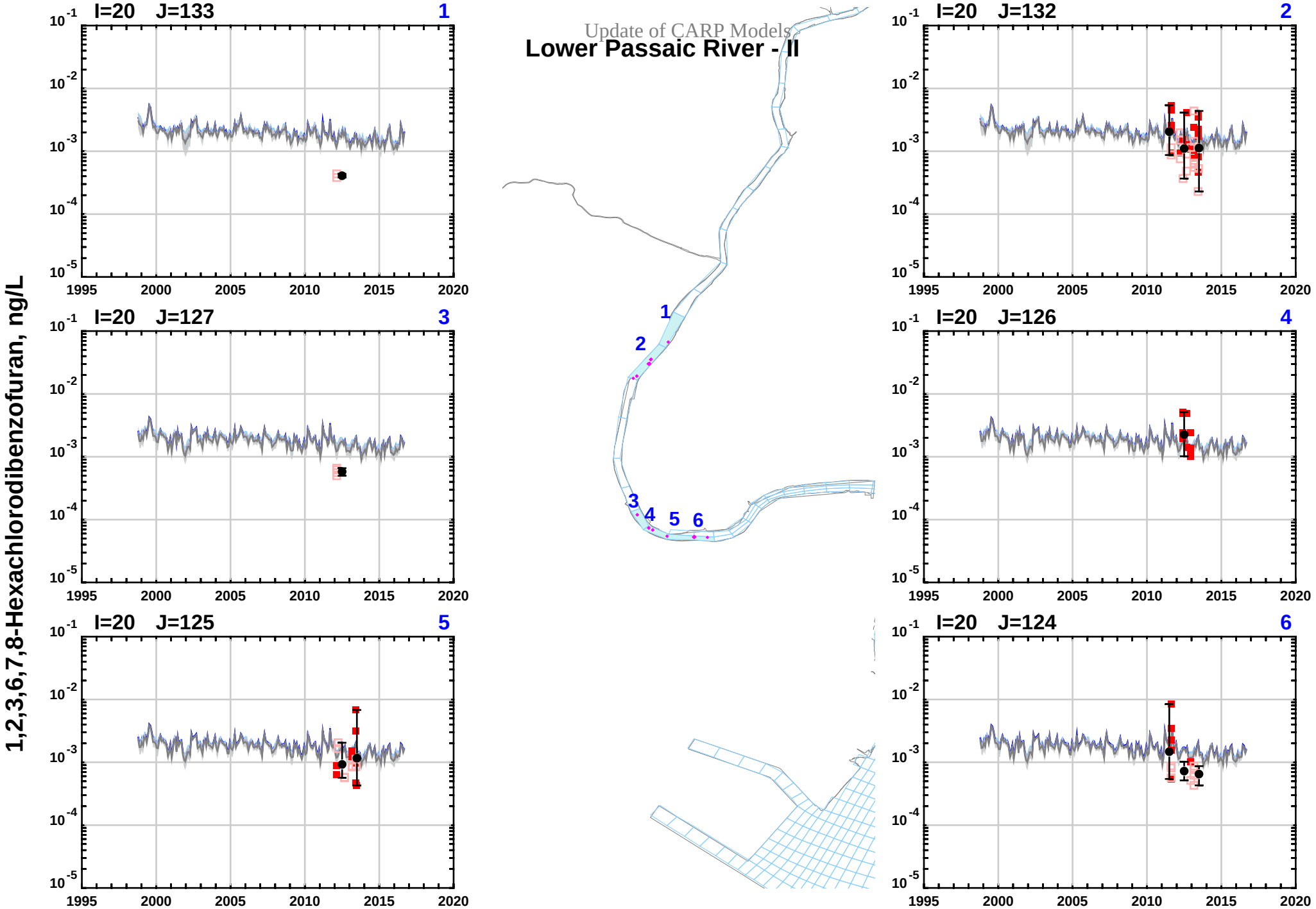

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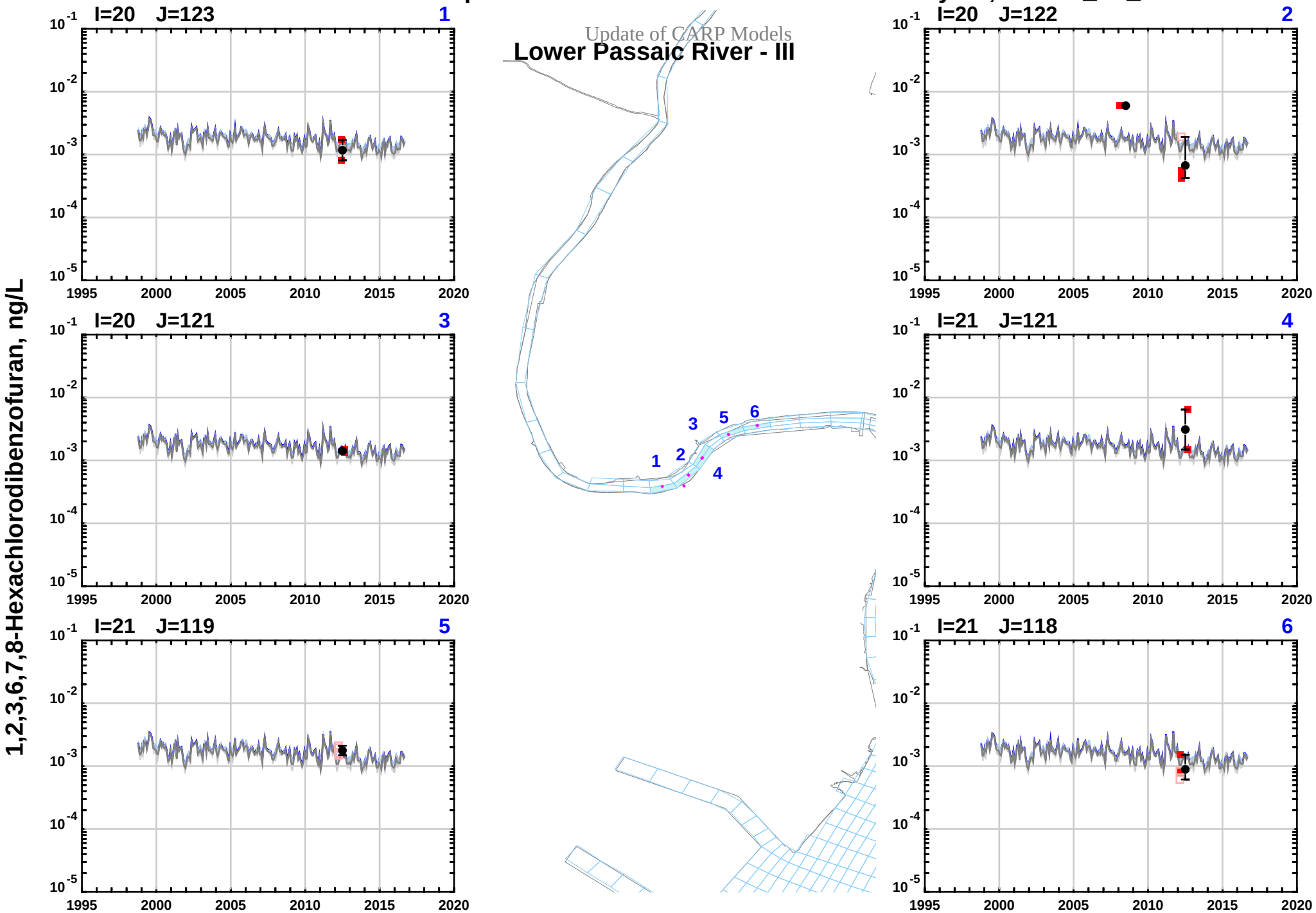

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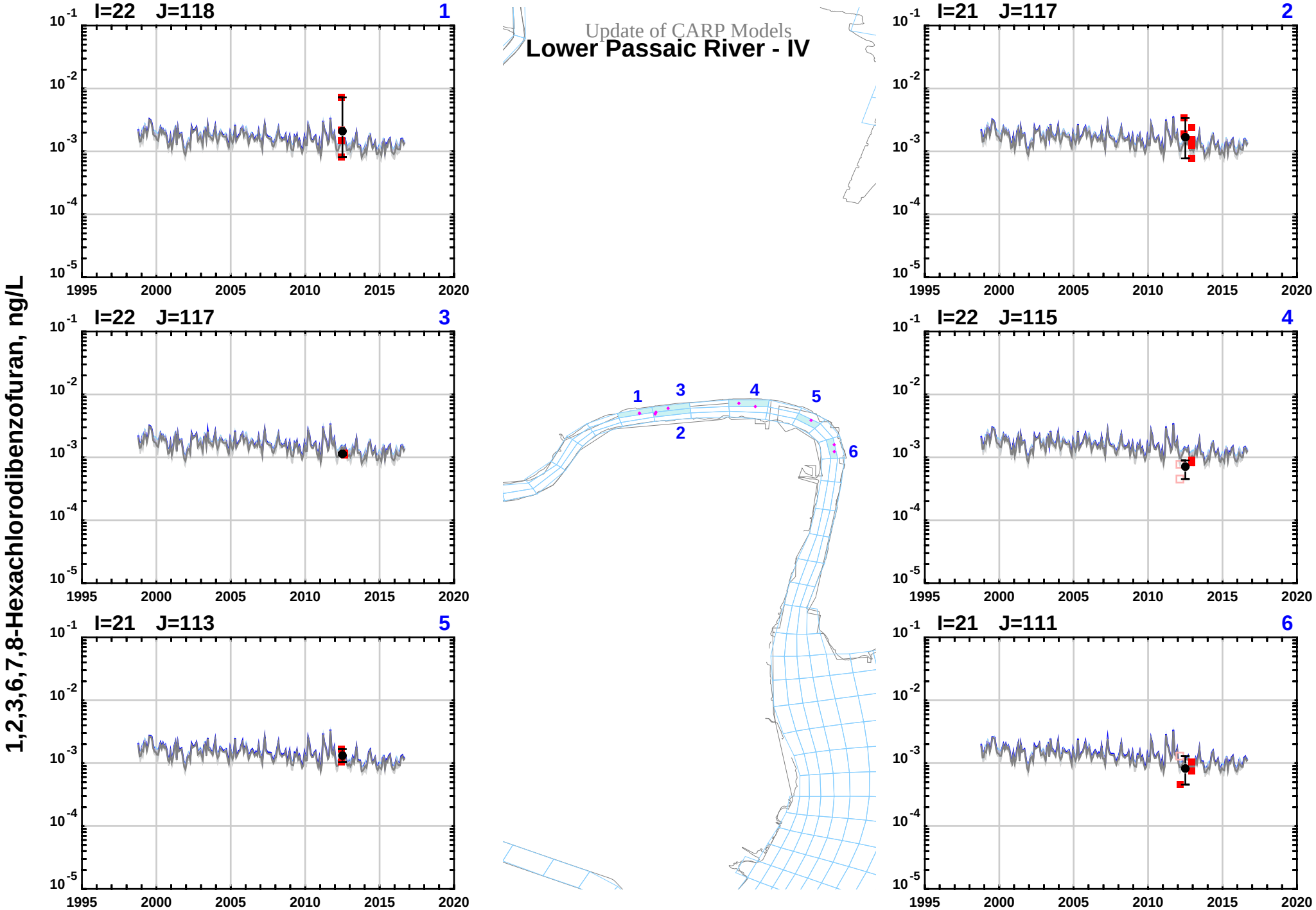

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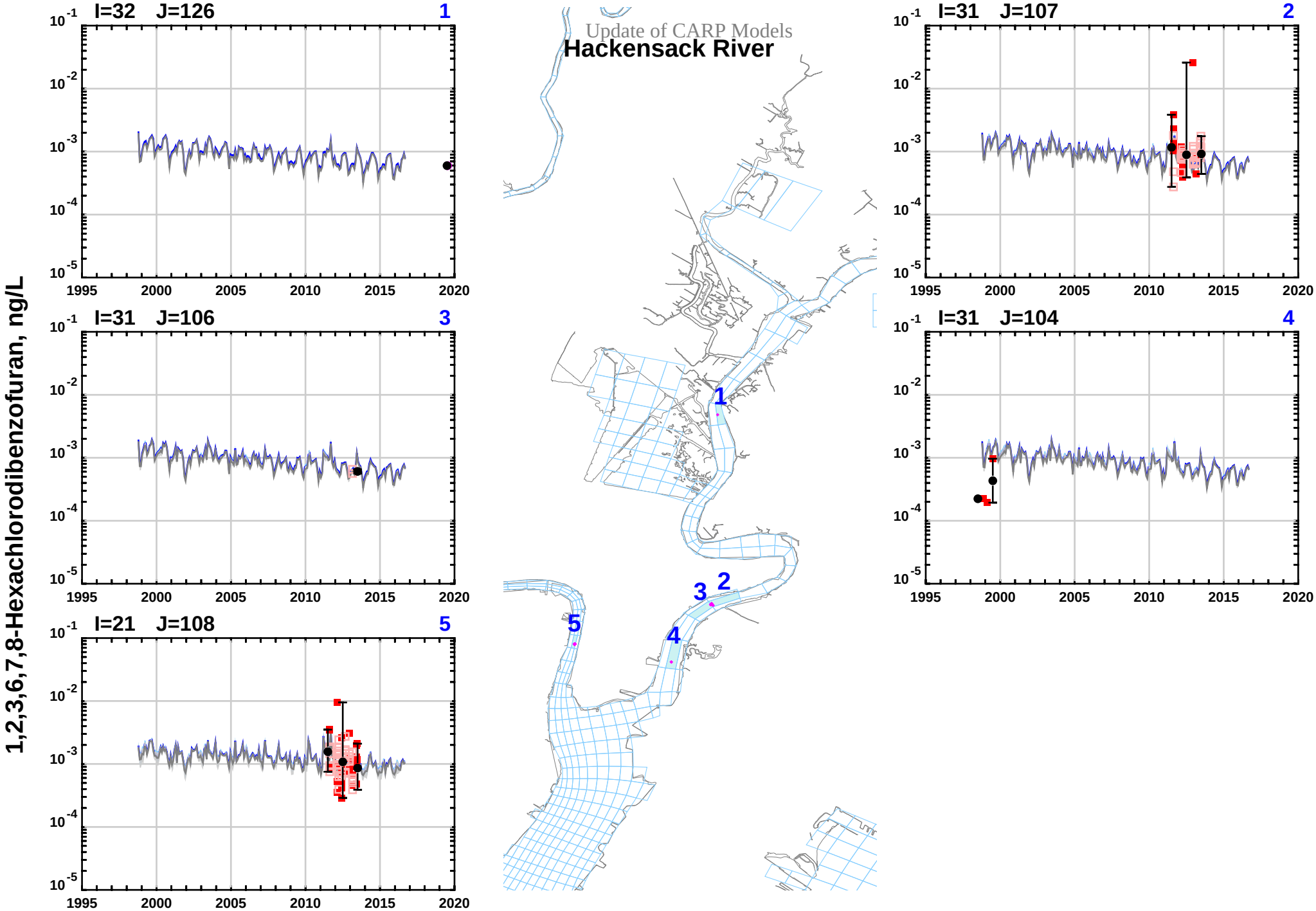

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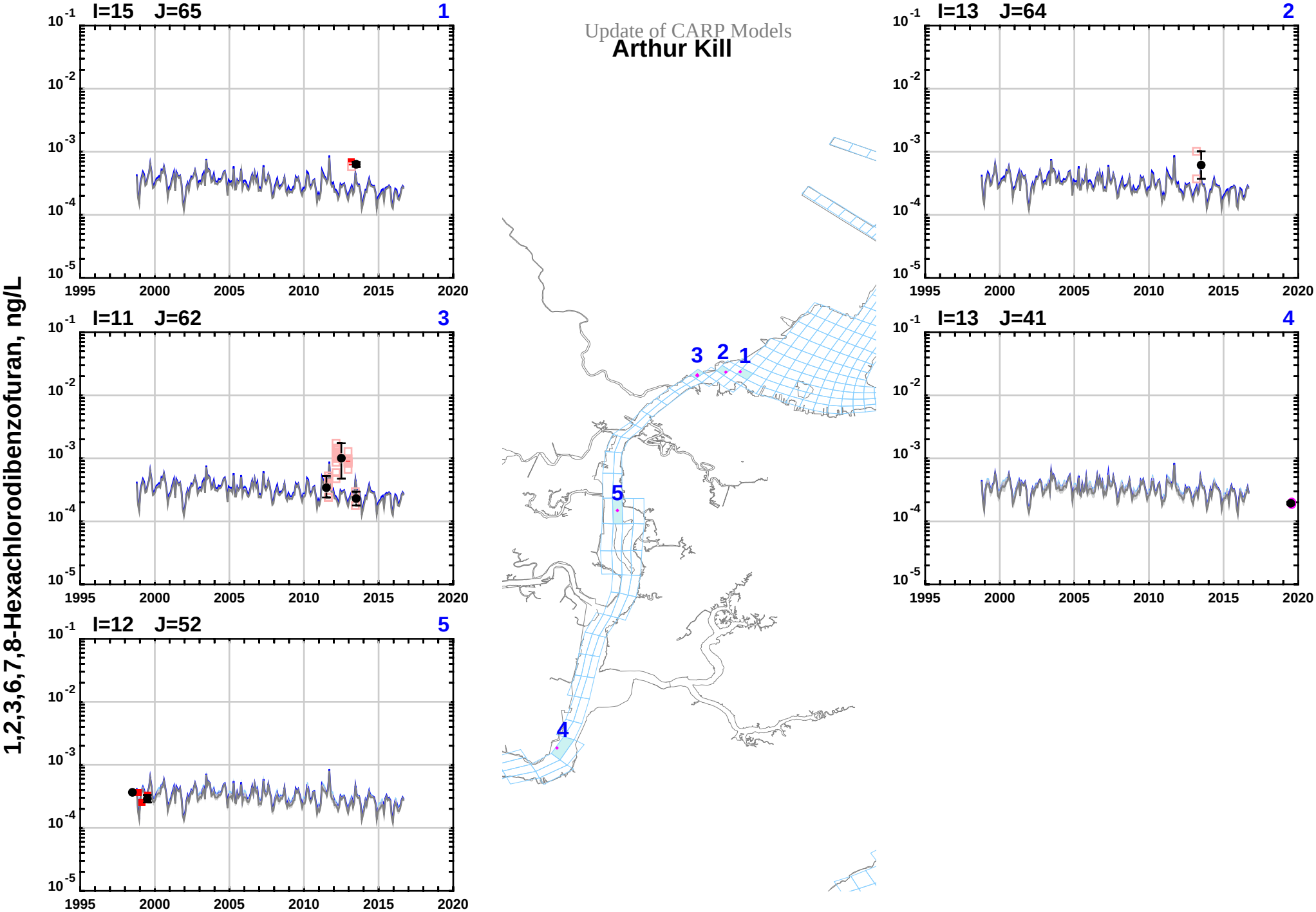
Update of CARP Models

Arthur Kill



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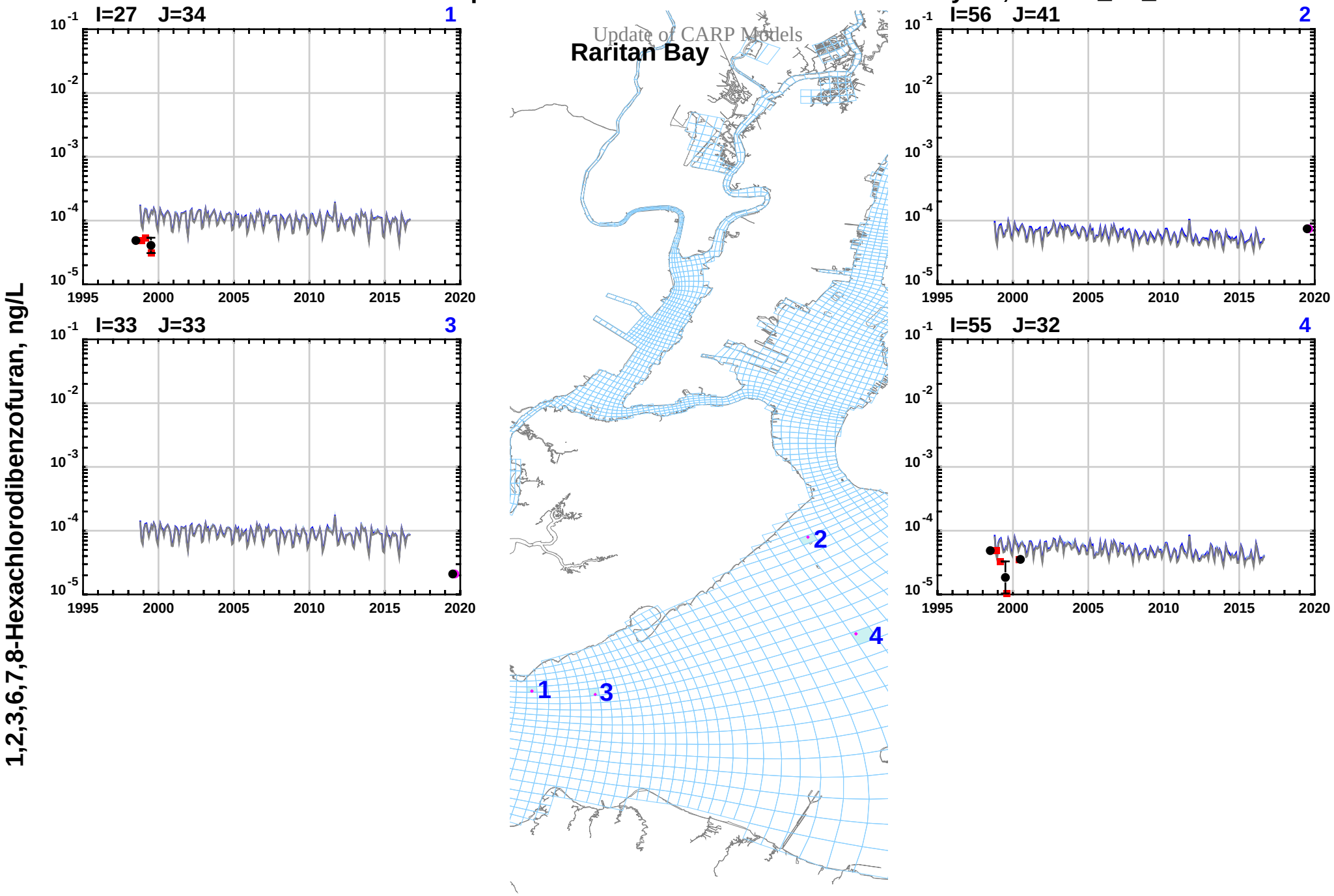

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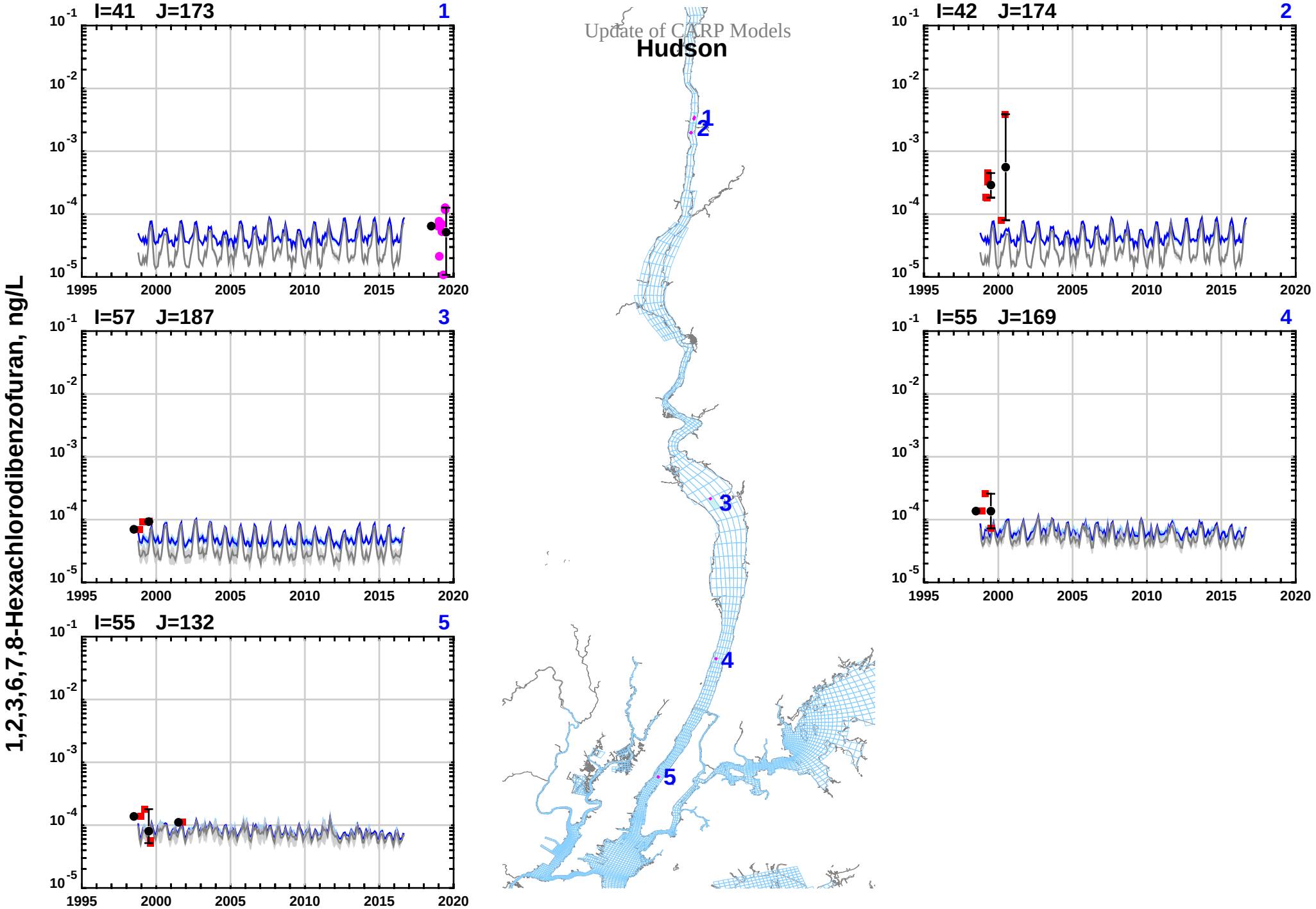

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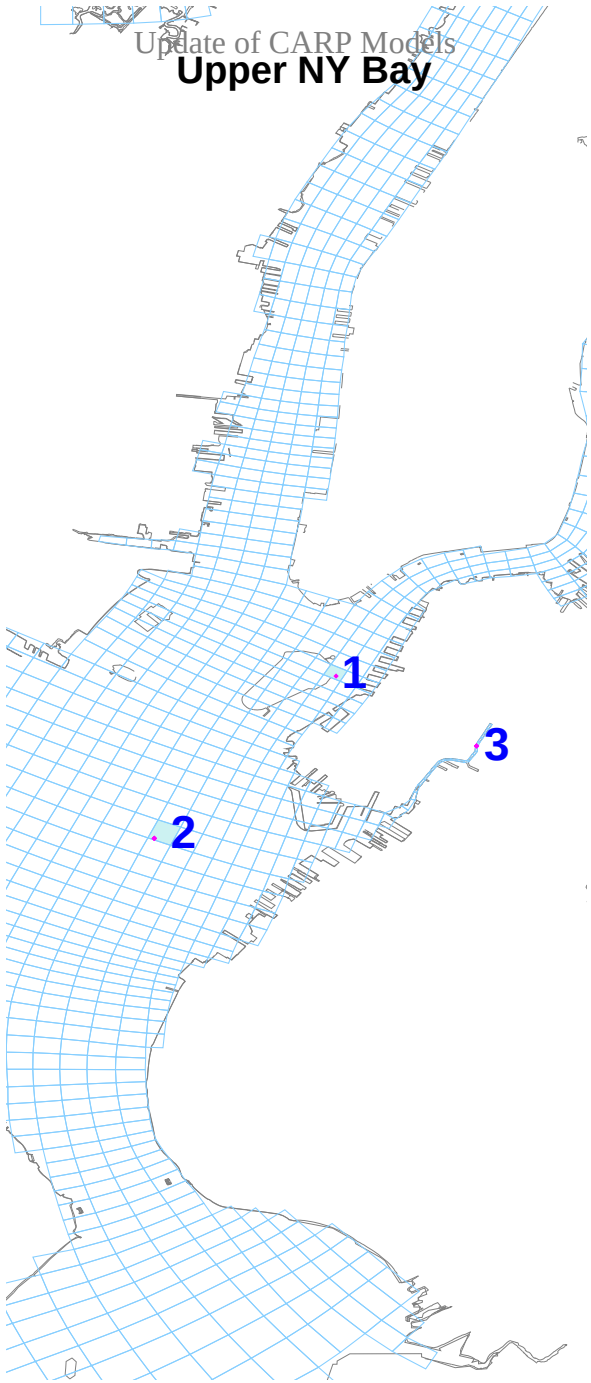

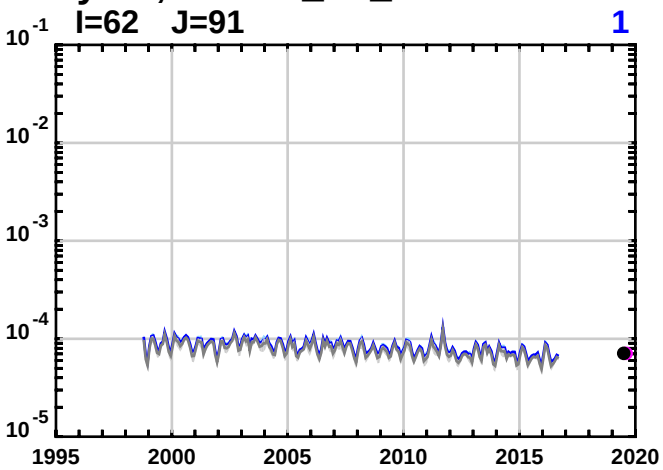

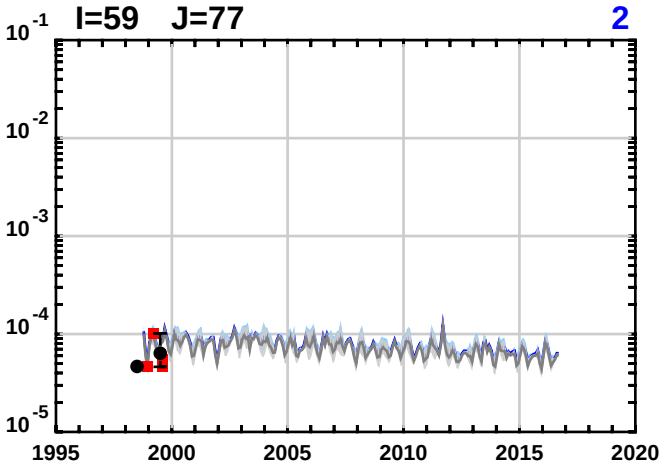

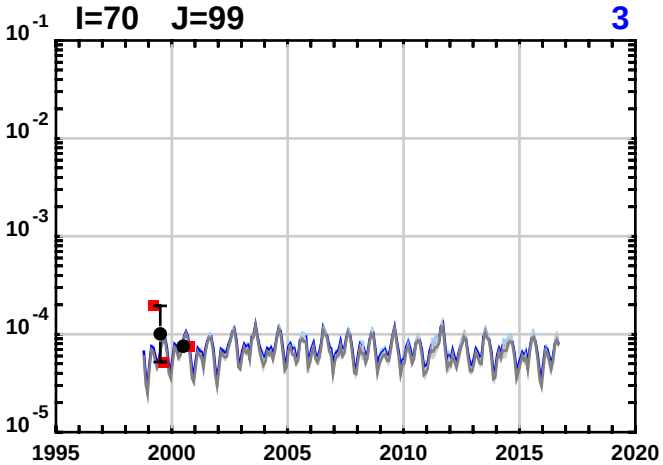

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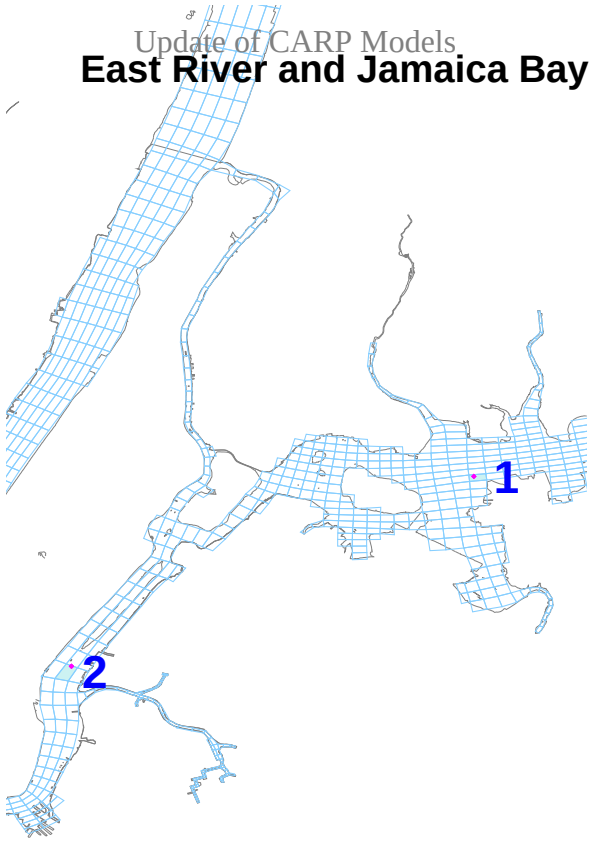
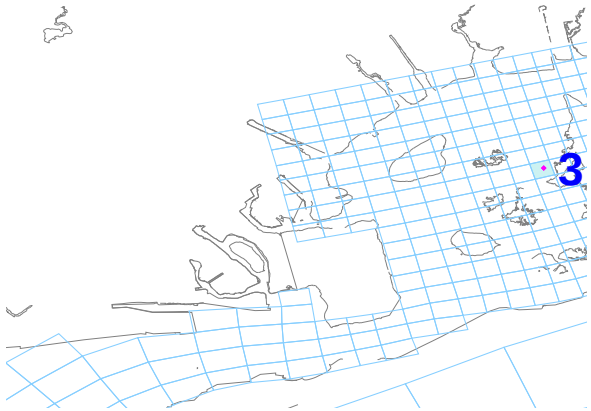
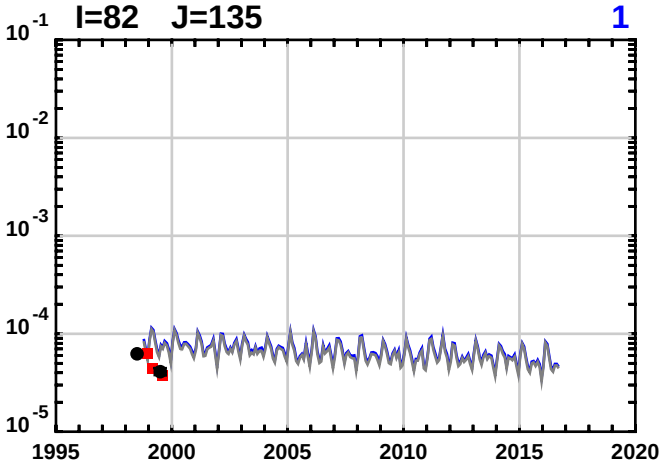
Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2

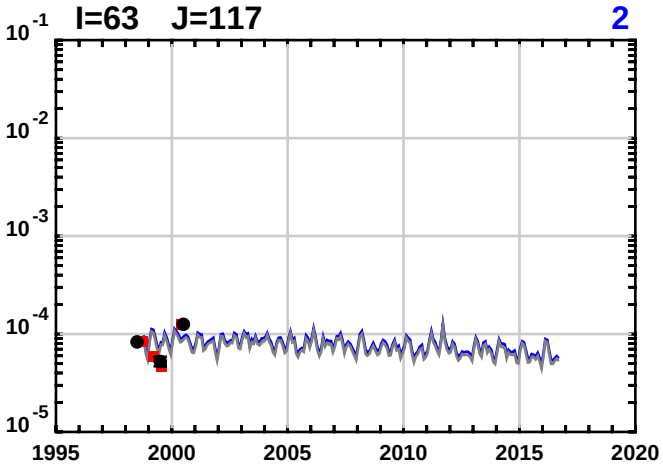
Update of CARP Models

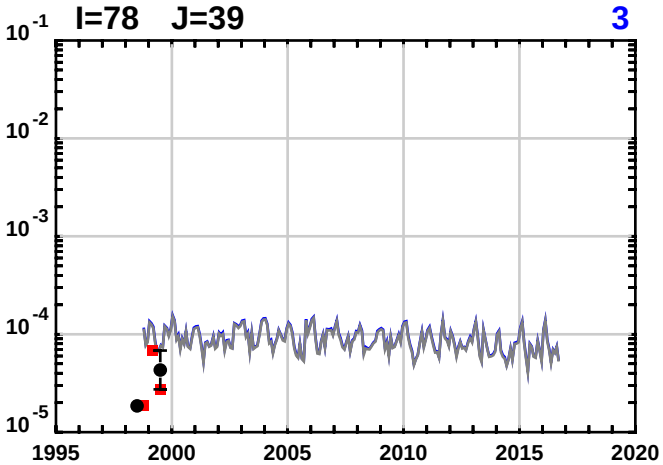
East River and Jamaica Bay











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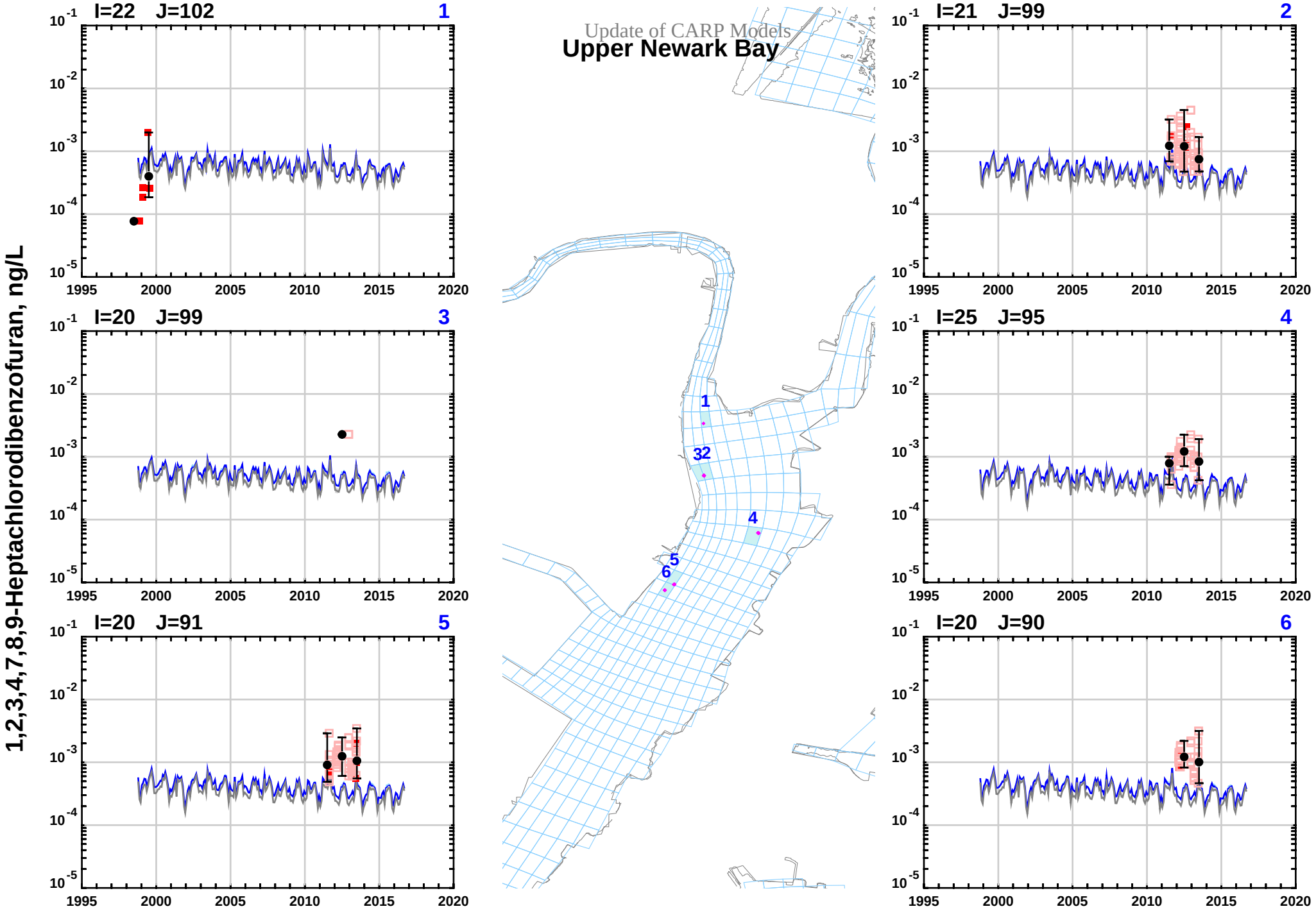
Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2



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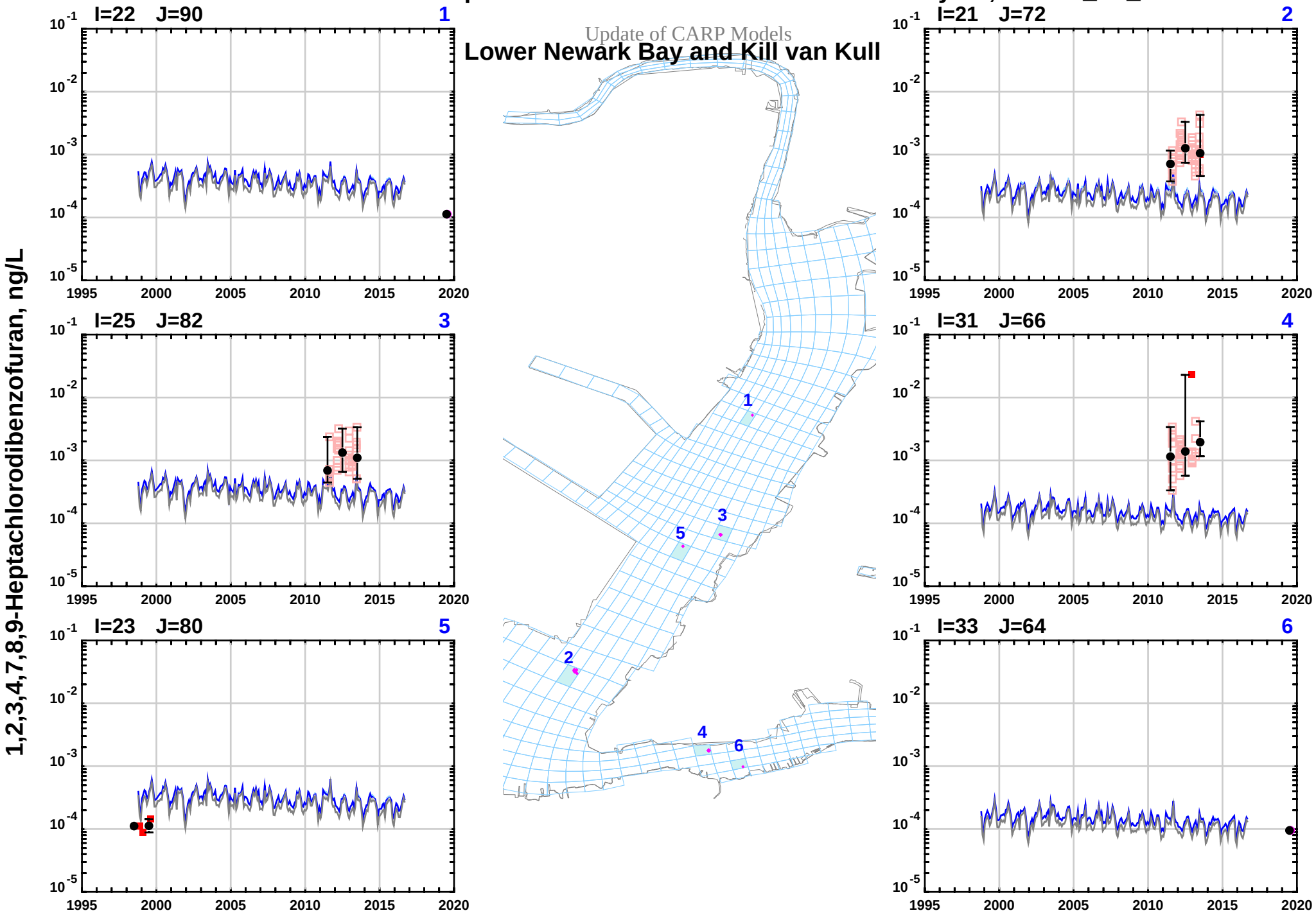

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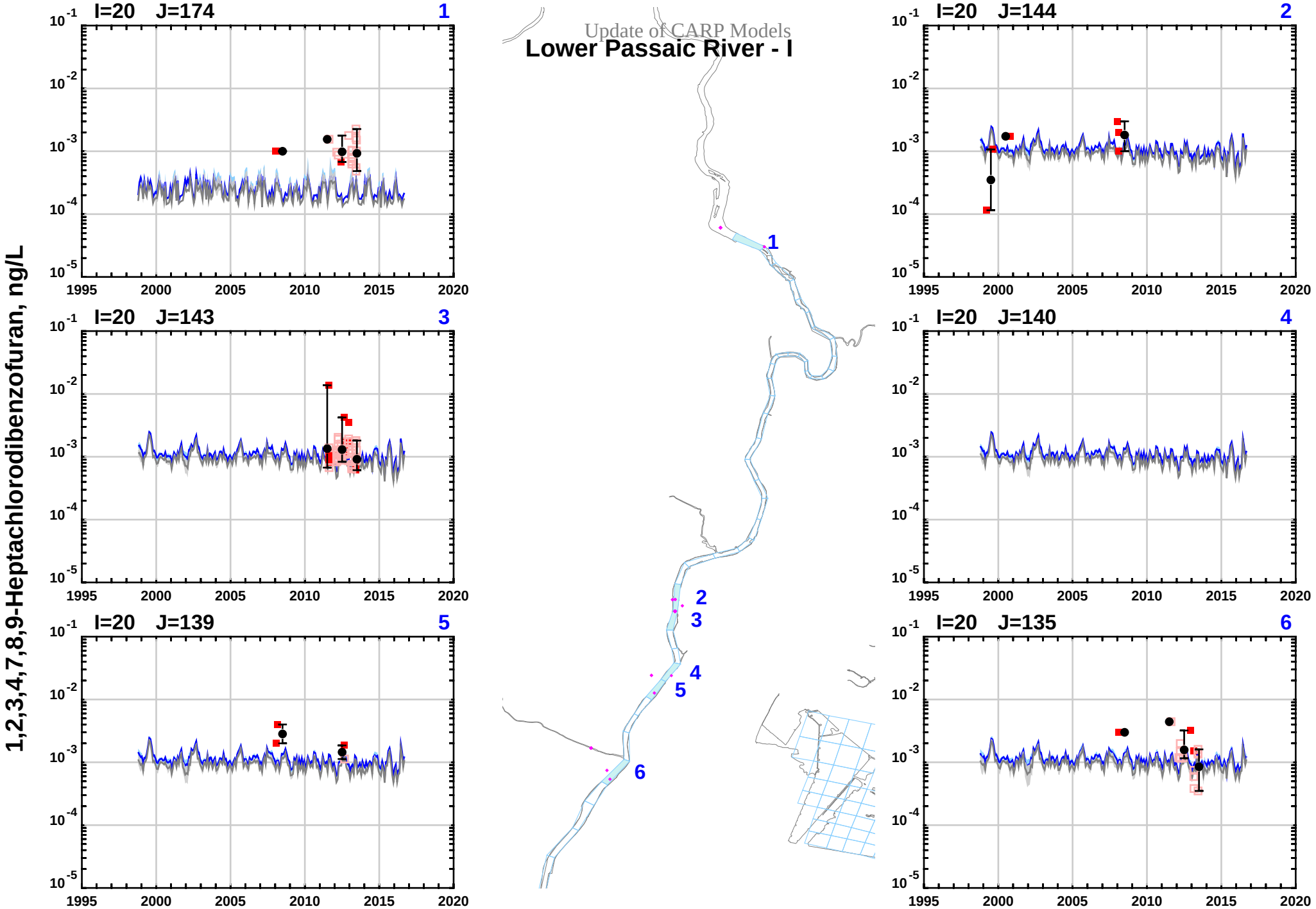

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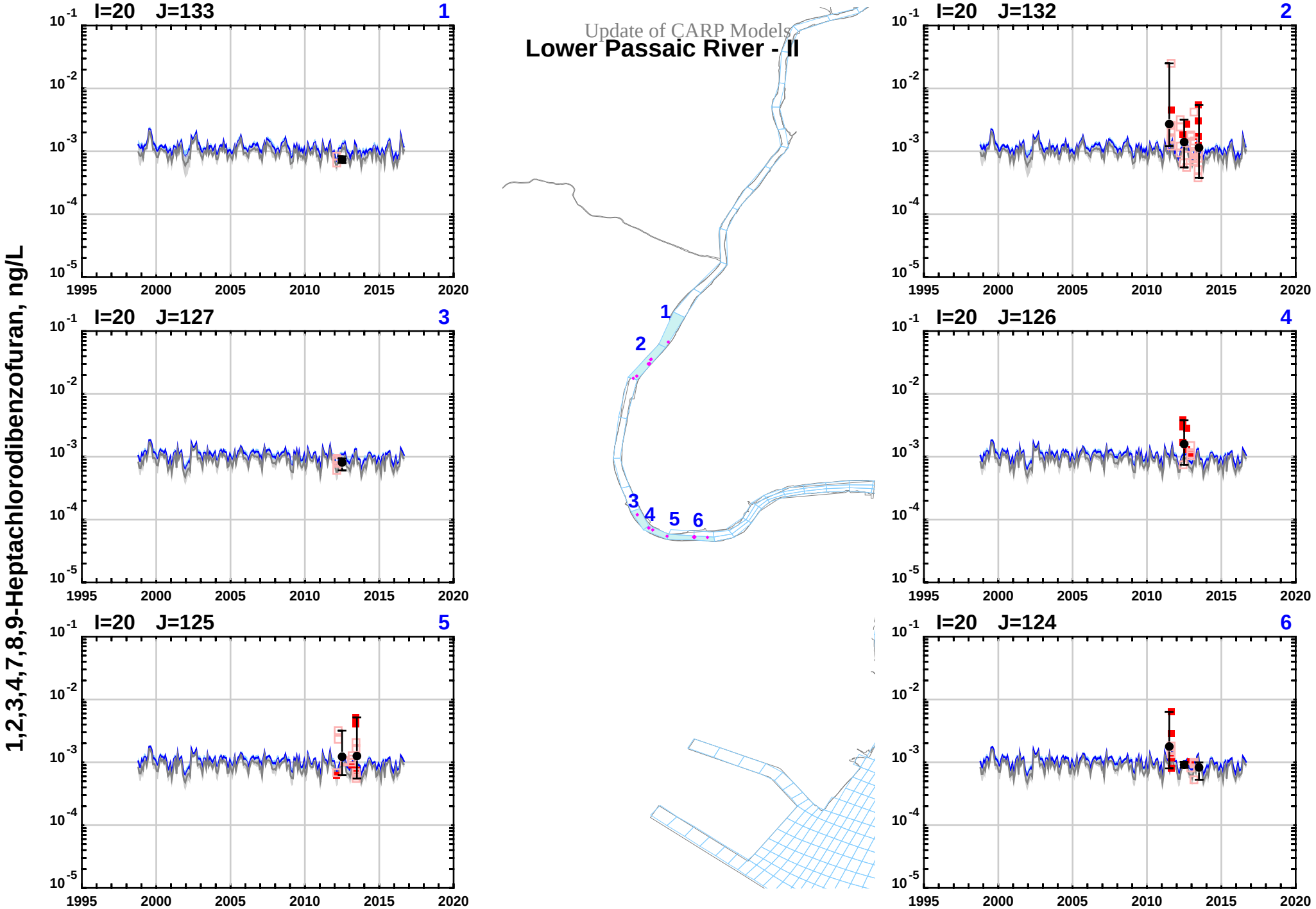

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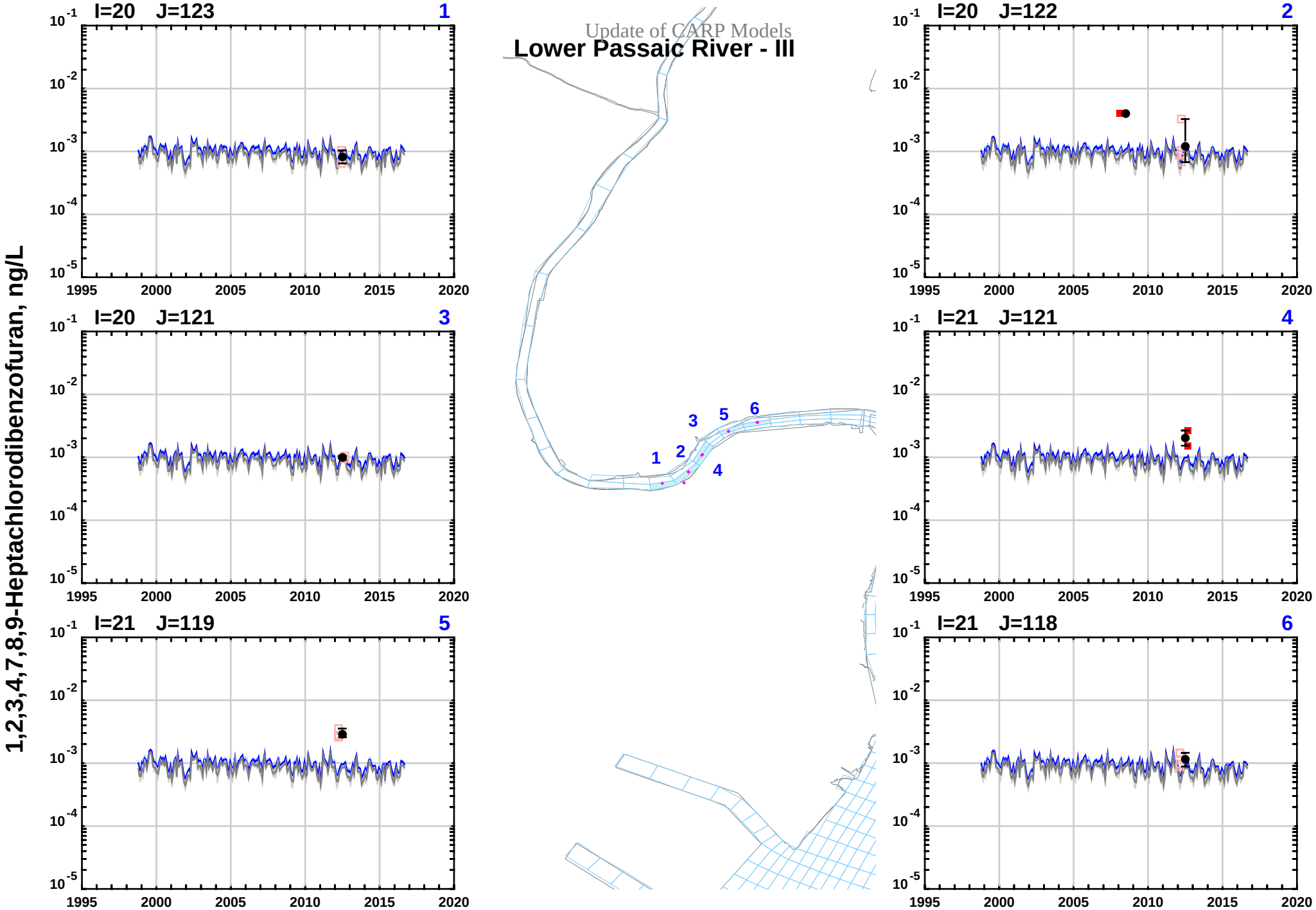

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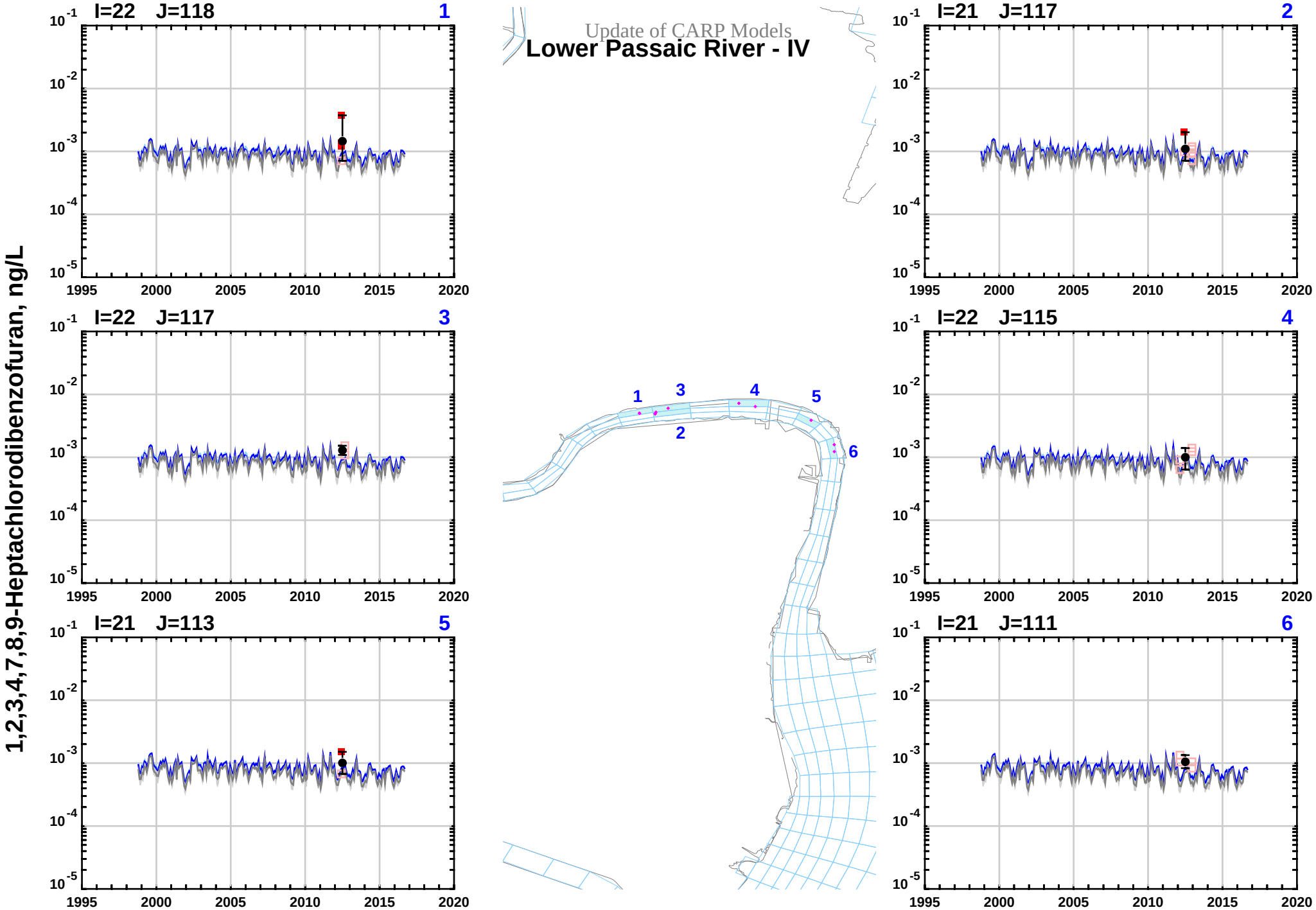

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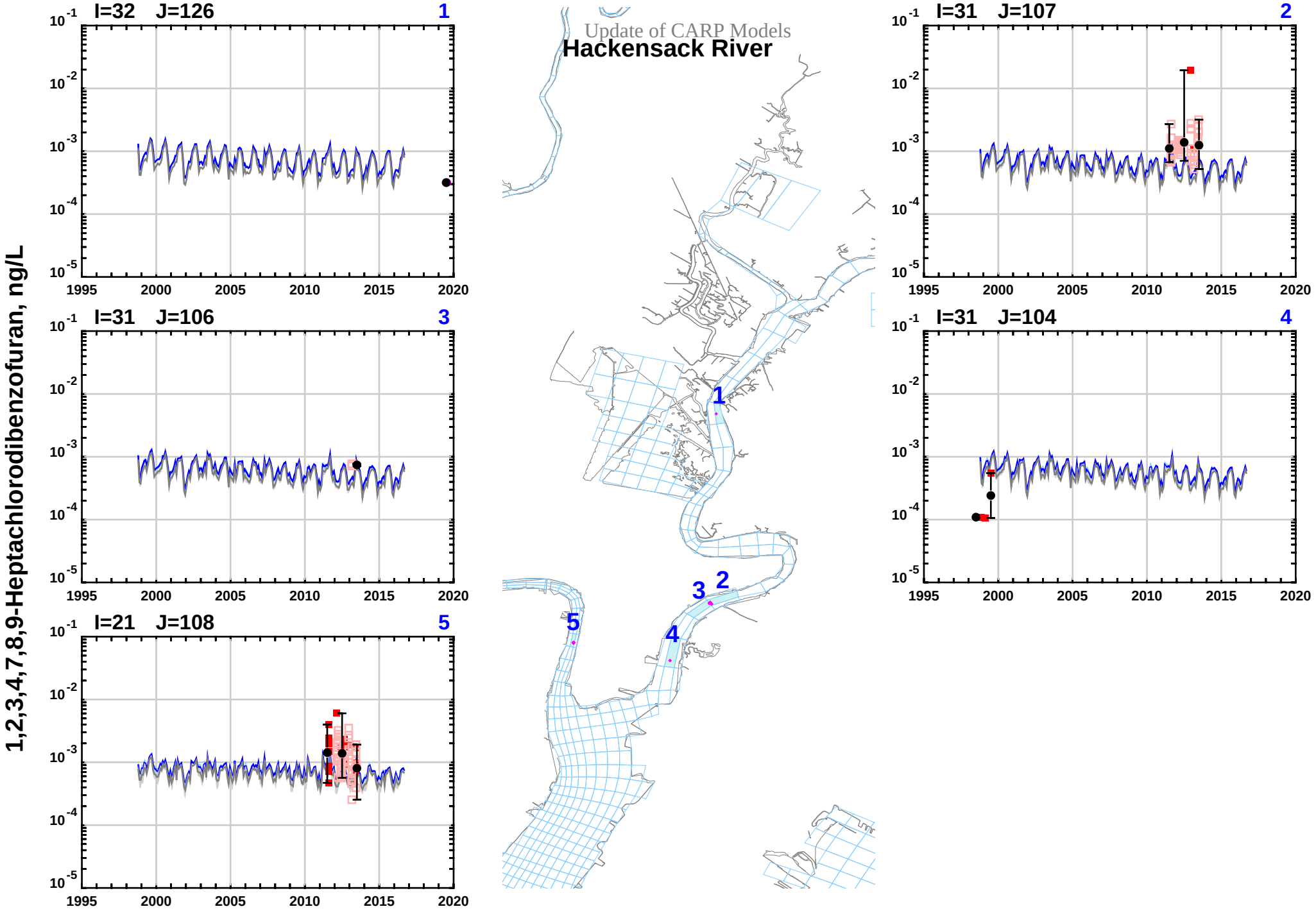

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Update of CARP Models

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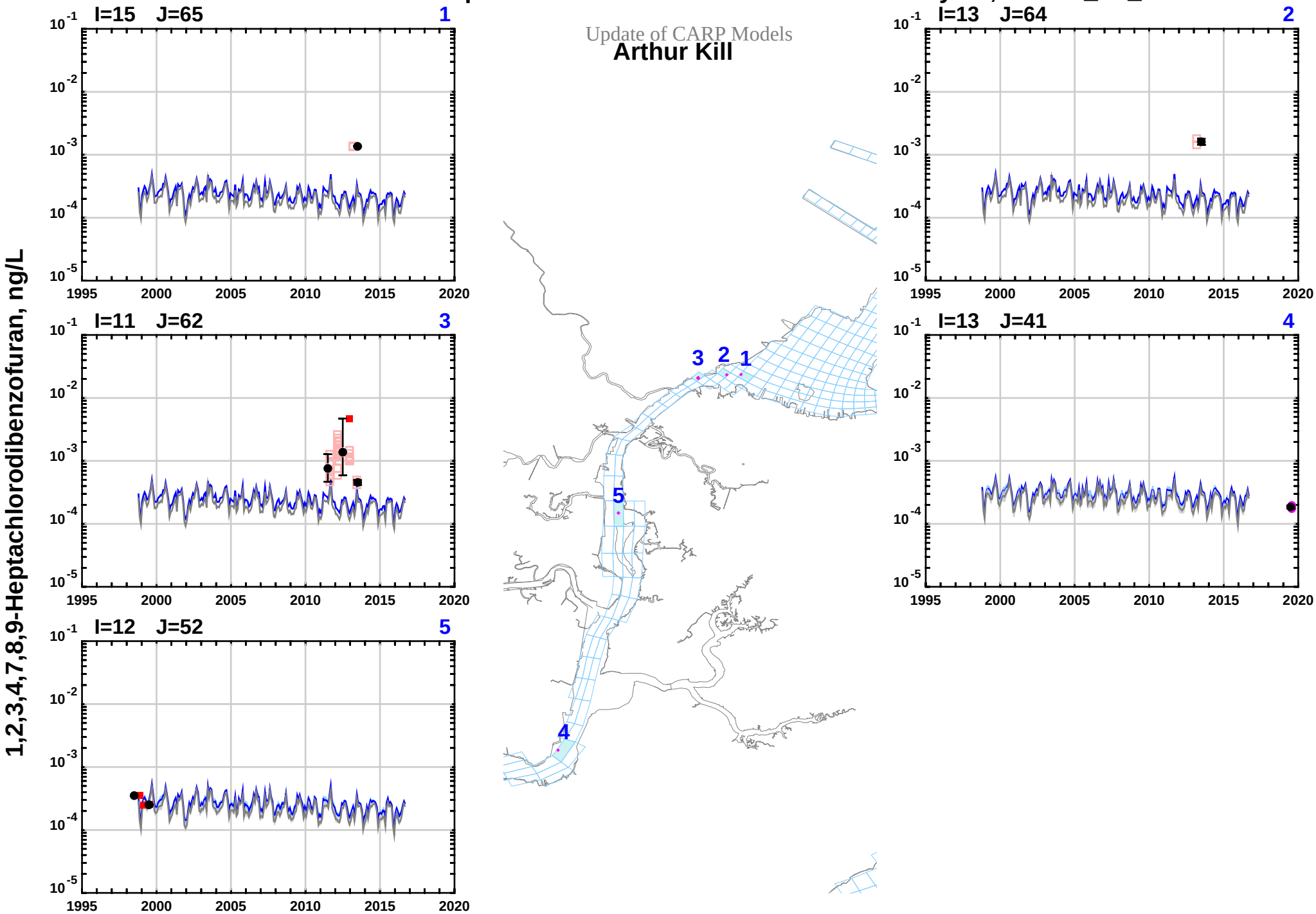

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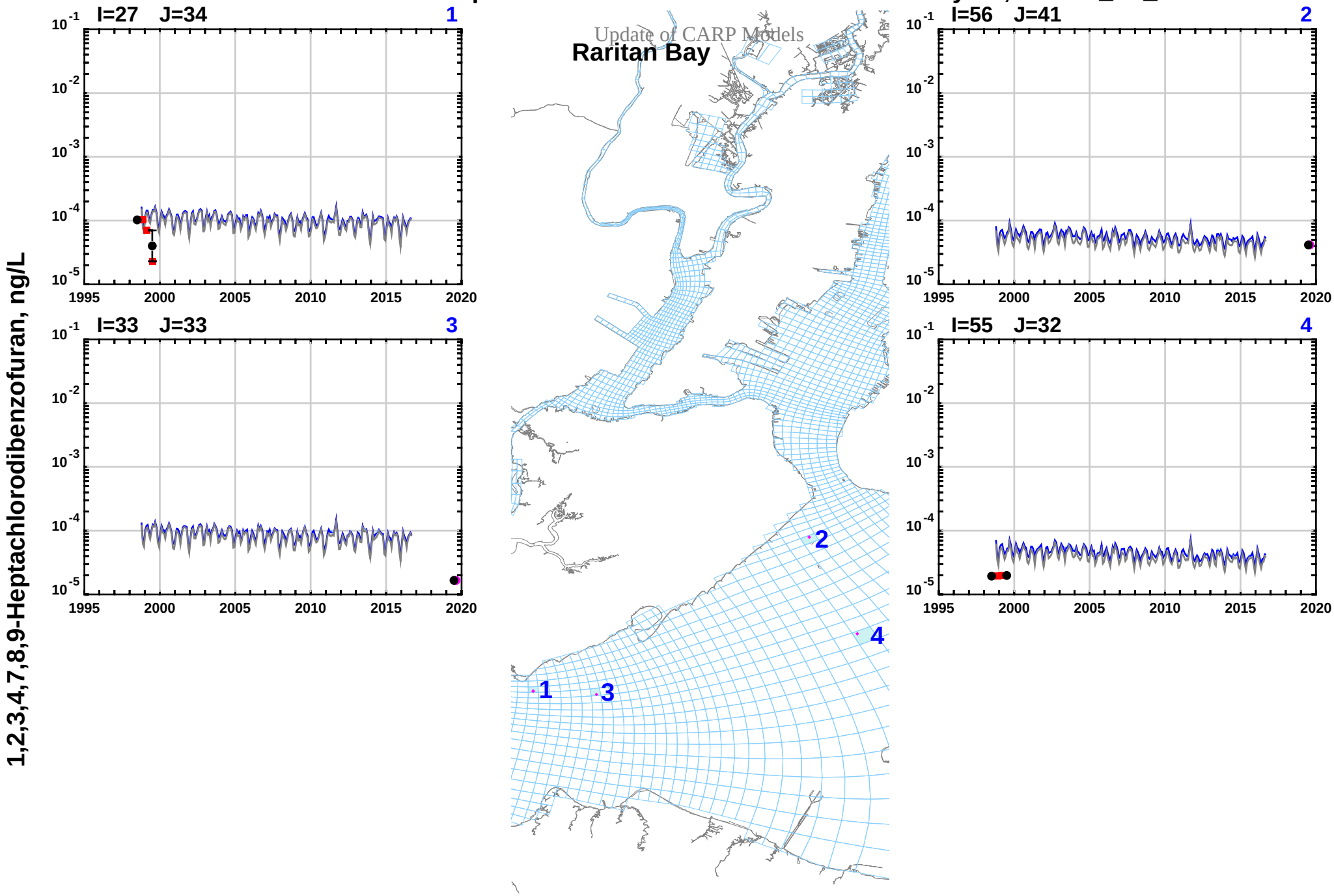
● **CARP2 Data**

Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2



Detect Data Non-Detect Data

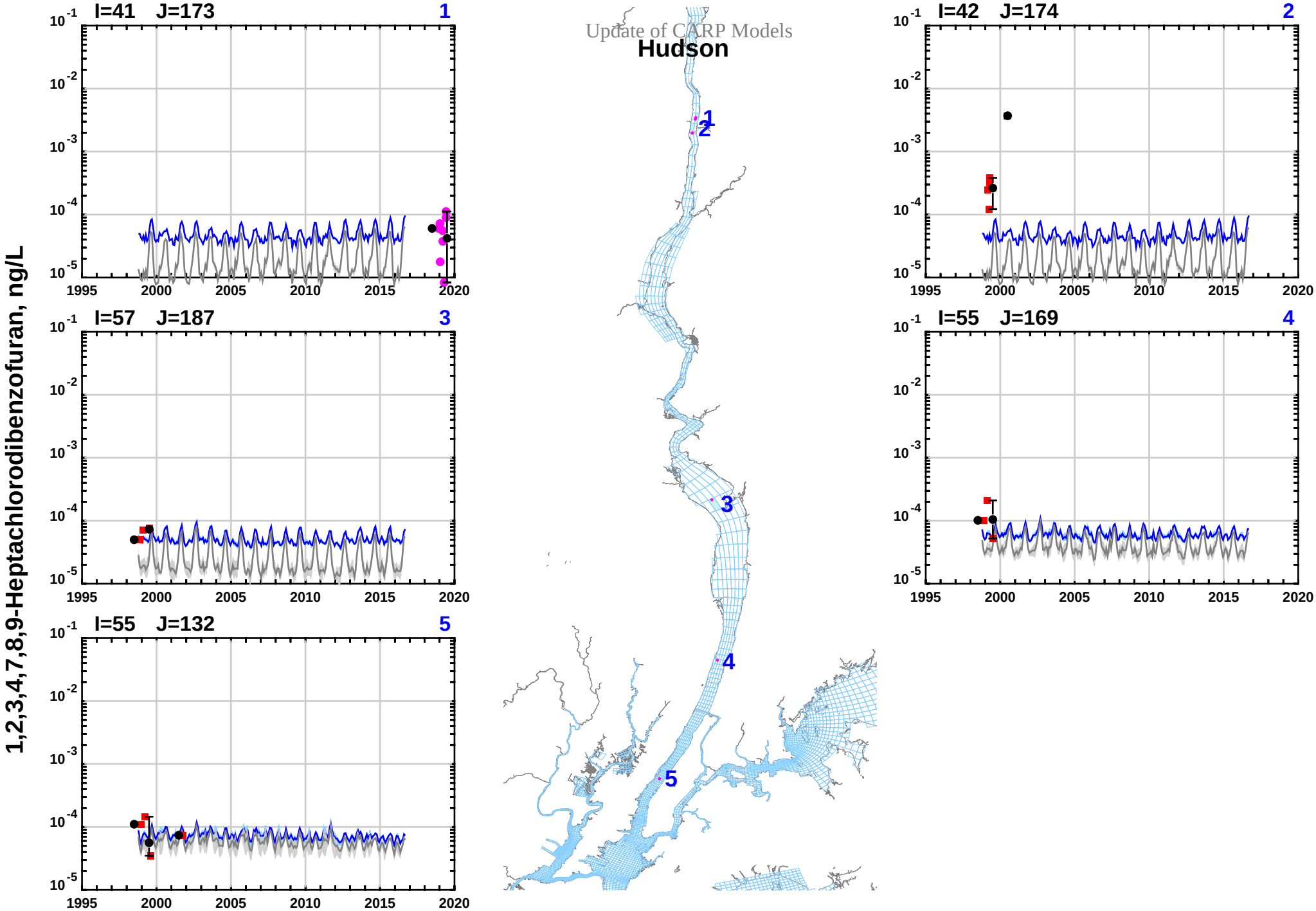
Model: mean and range of values in Water Column

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_S4_R2



Detect Data Non-Detect Data

Model: mean and range of values in Water Column

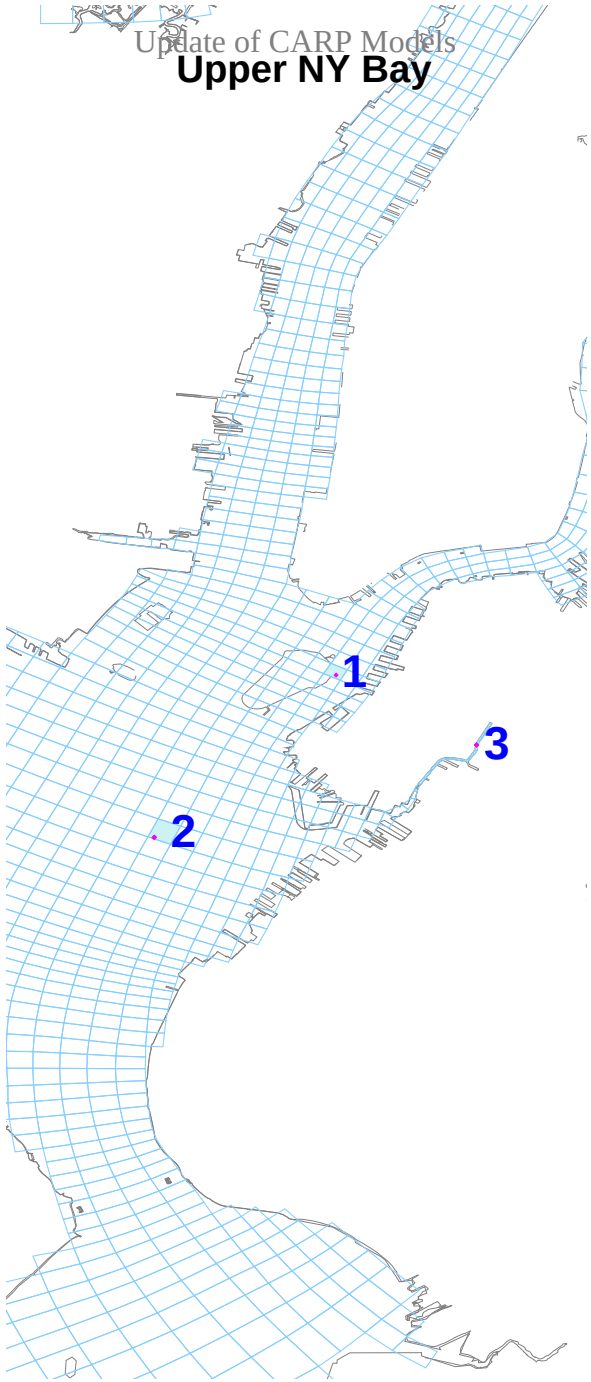
Model: Particulate Phase mean and range of values in Water Column

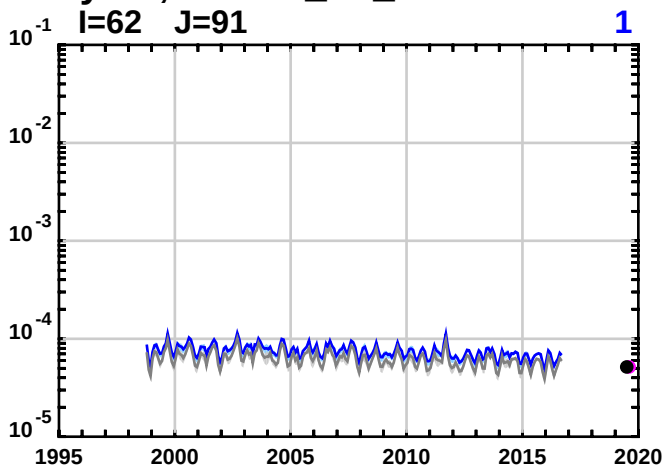
● Water Column Data: yearly mean and range

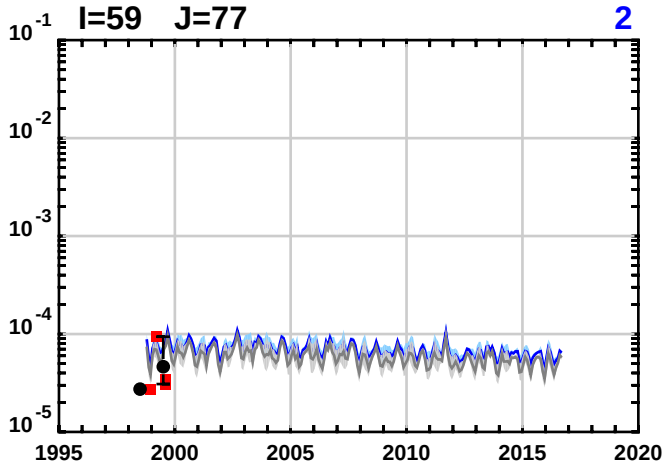
● CARP2 Data

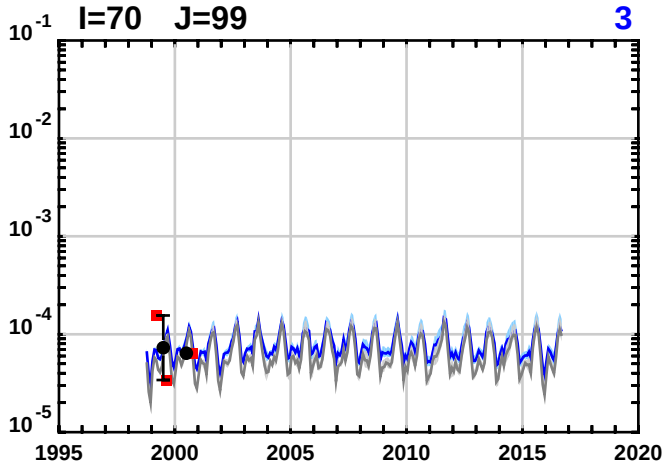
Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2

1,2,3,4,7,8,9-Heptachlorodibenzofuran, ng/L







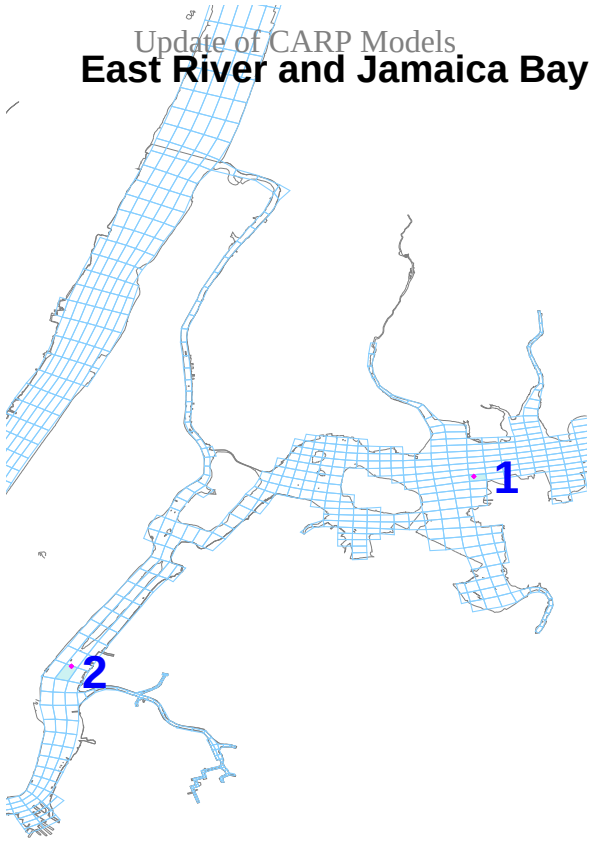


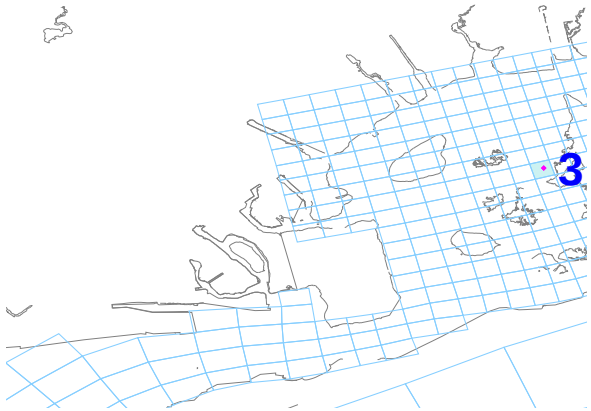
Detect Data Non-Detect Data
Model: mean and range of values in Water Column
Model: Particulate Phase mean and range of values in Water Column

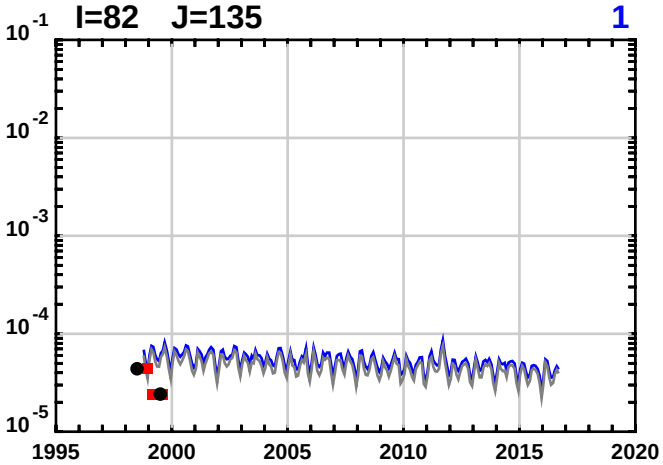
● Water Column Data: yearly mean and range
● CARP2 Data

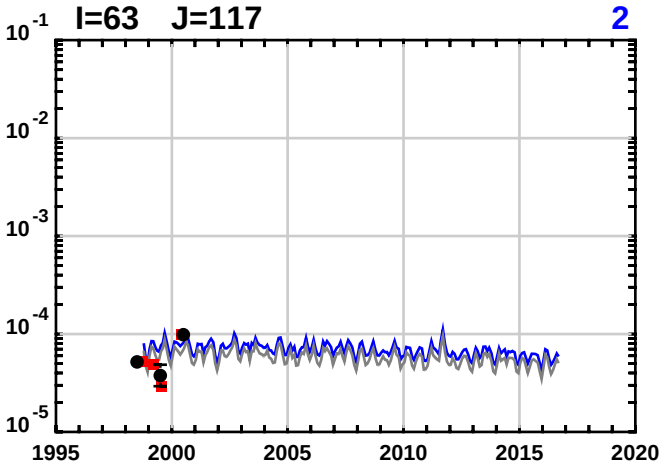
Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2

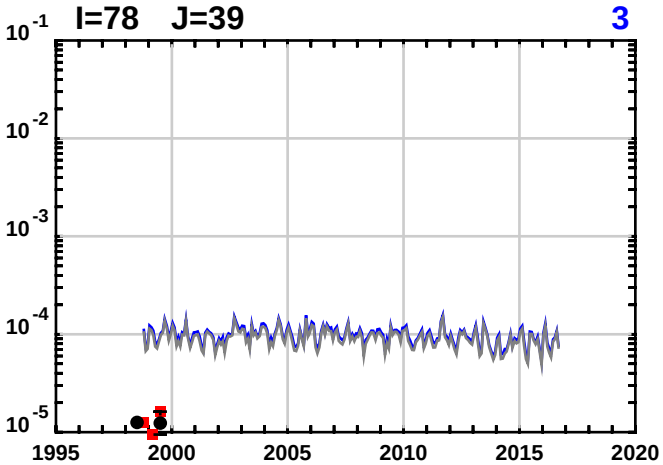
East River and Jamaica Bay











1,2,3,4,7,8,9-Heptachlorodibenzofuran, ng/L

Detect Data Non-Detect Data

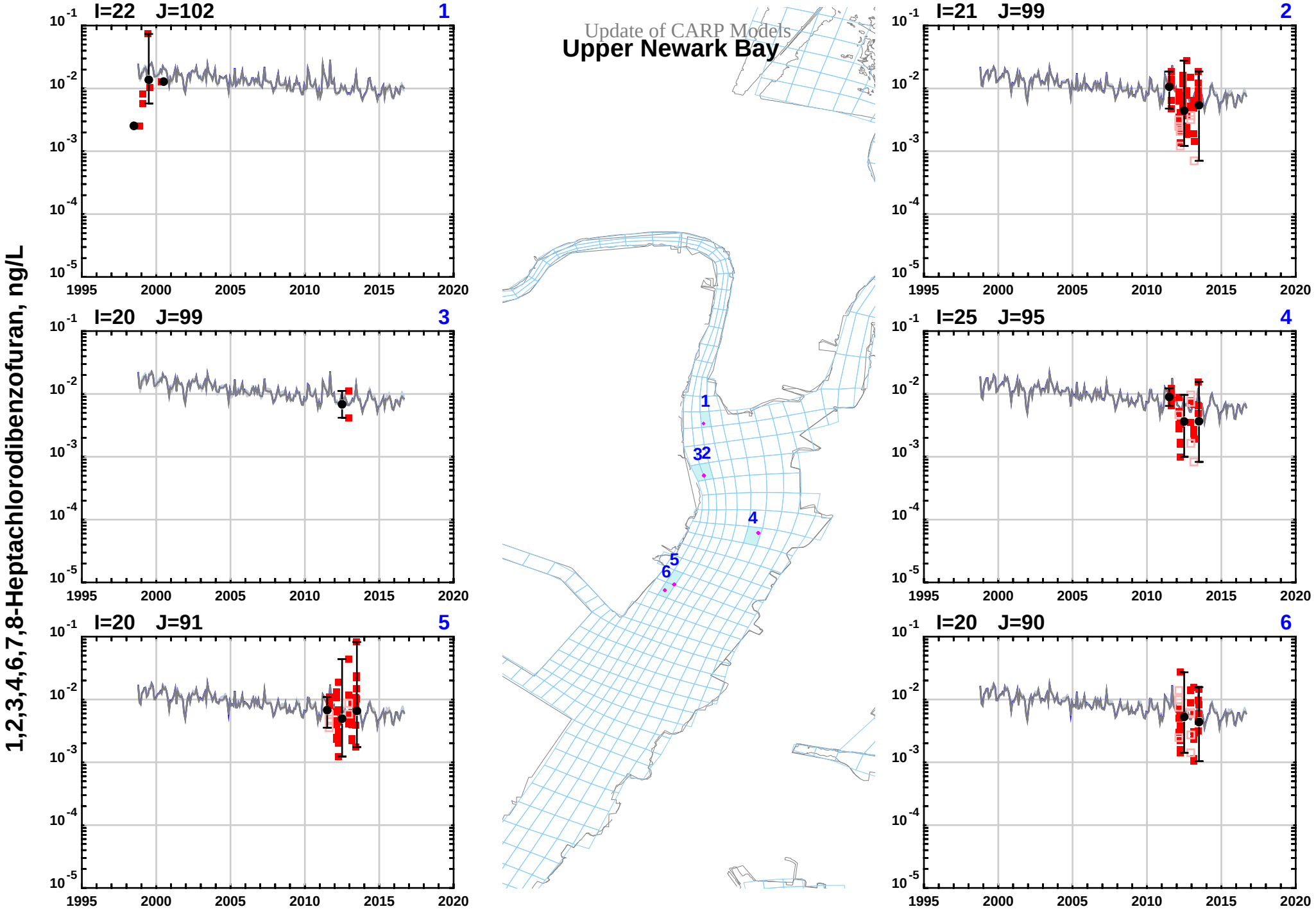
Model: mean and range of values in Water Column

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_S5_R2



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

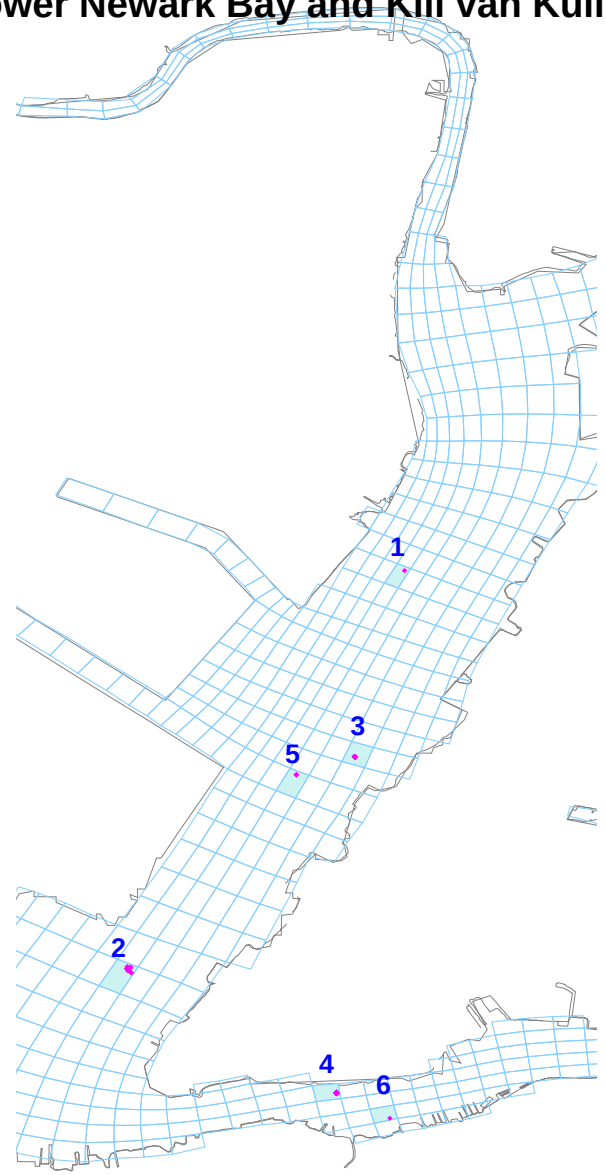
Water Column Data: yearly mean and range

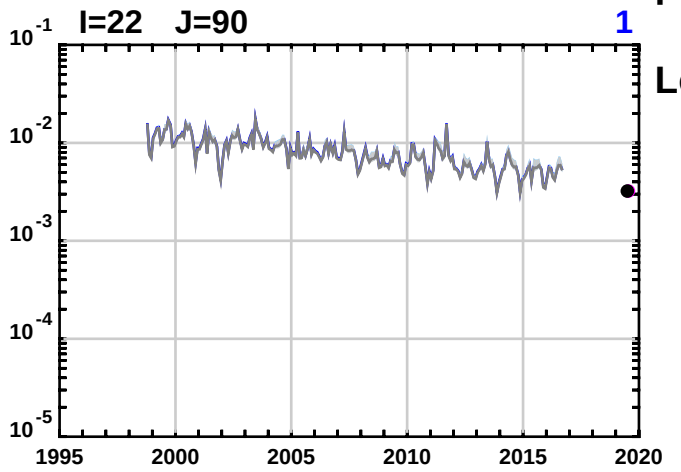
CARP2 Data

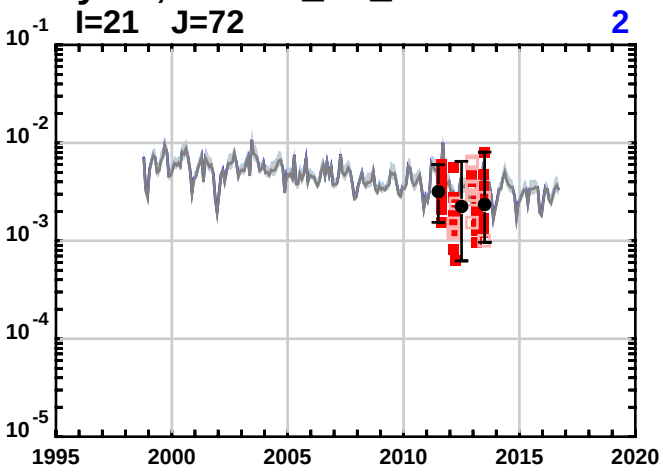
Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2

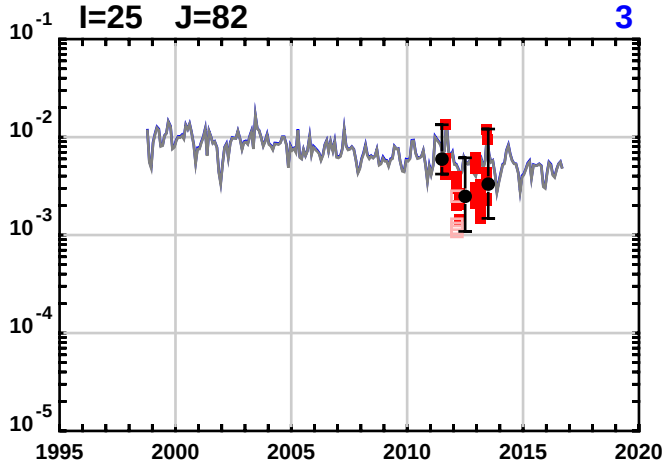
Update of CARP Models

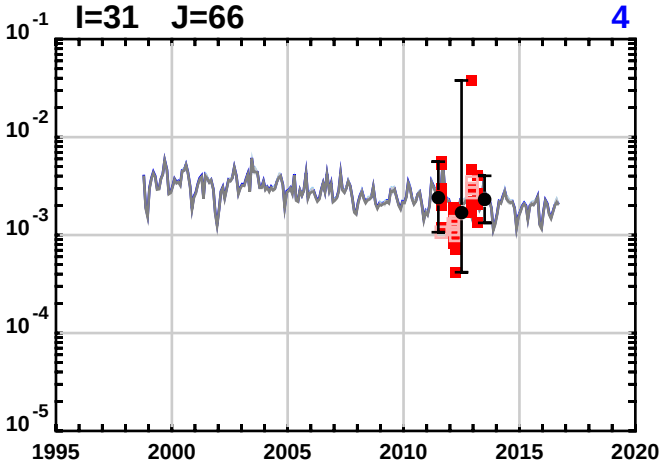
Lower Newark Bay and Kill van Kull

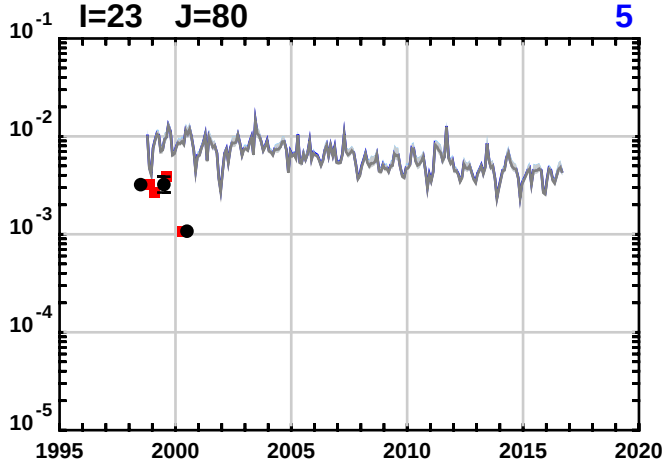


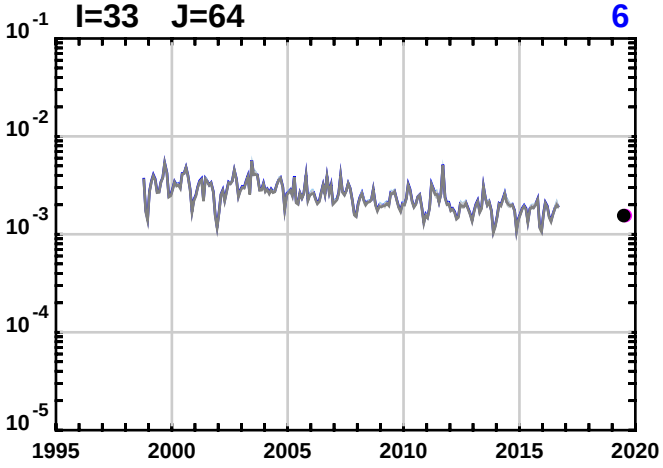












1,2,3,4,6,7,8-Heptachlorodibenzofuran, ng/L

Detect Data Non-Detect Data

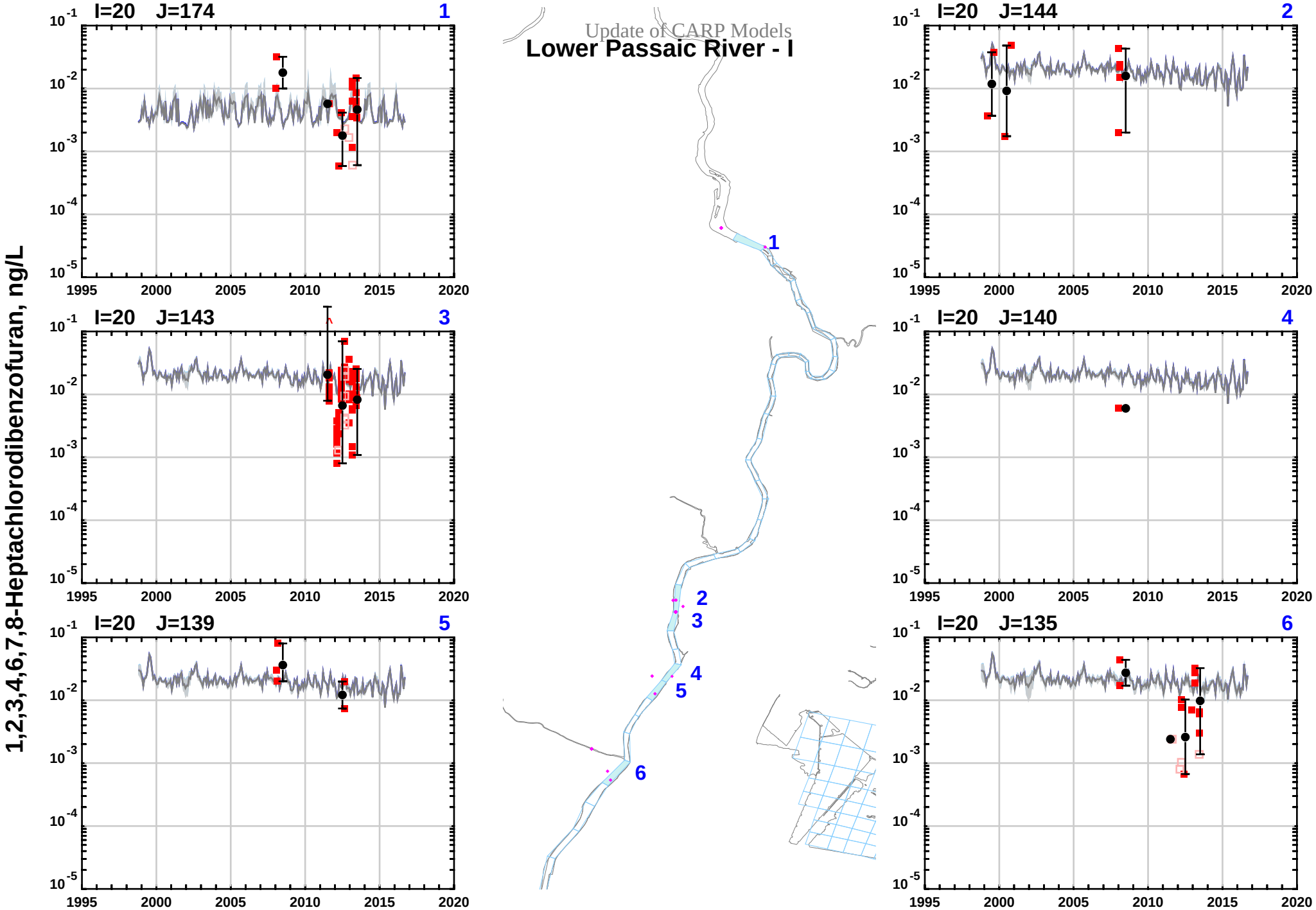
Model: mean and range of values in Water Column

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_S5_R2



Detect Data Non-Detect Data

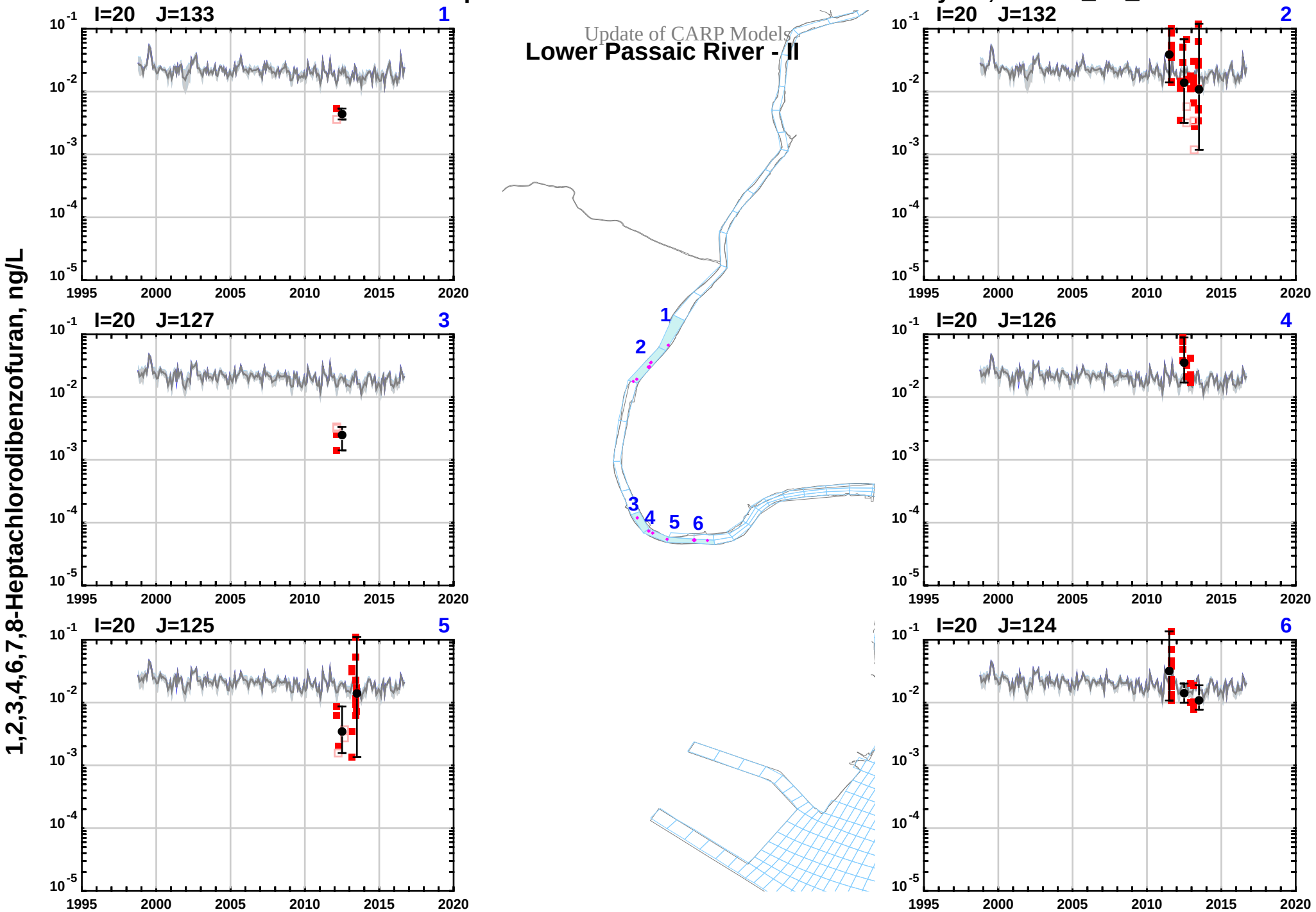
Model: mean and range of values in Water Column

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

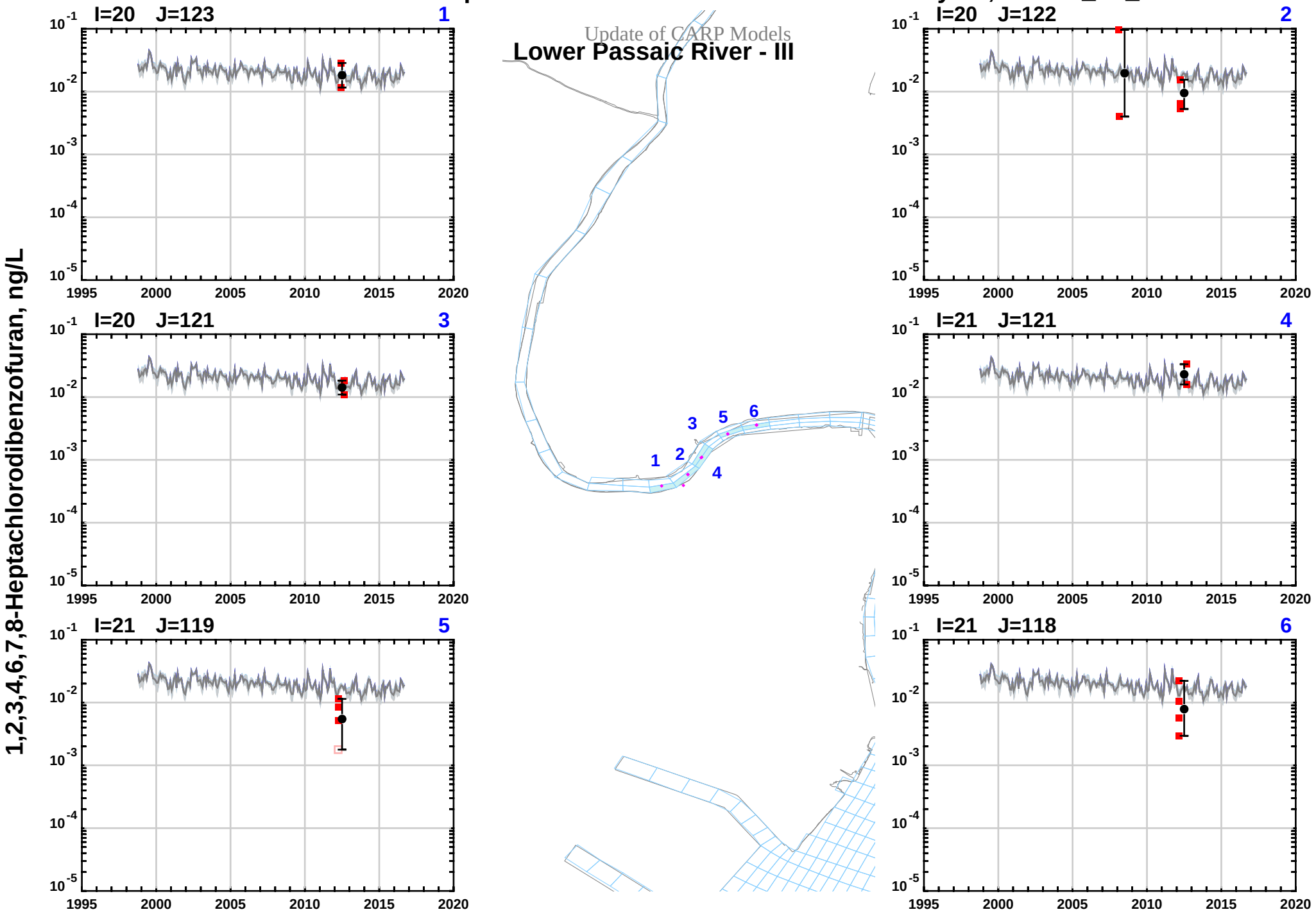
Water Column Data: yearly mean and range

CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2



Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2



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

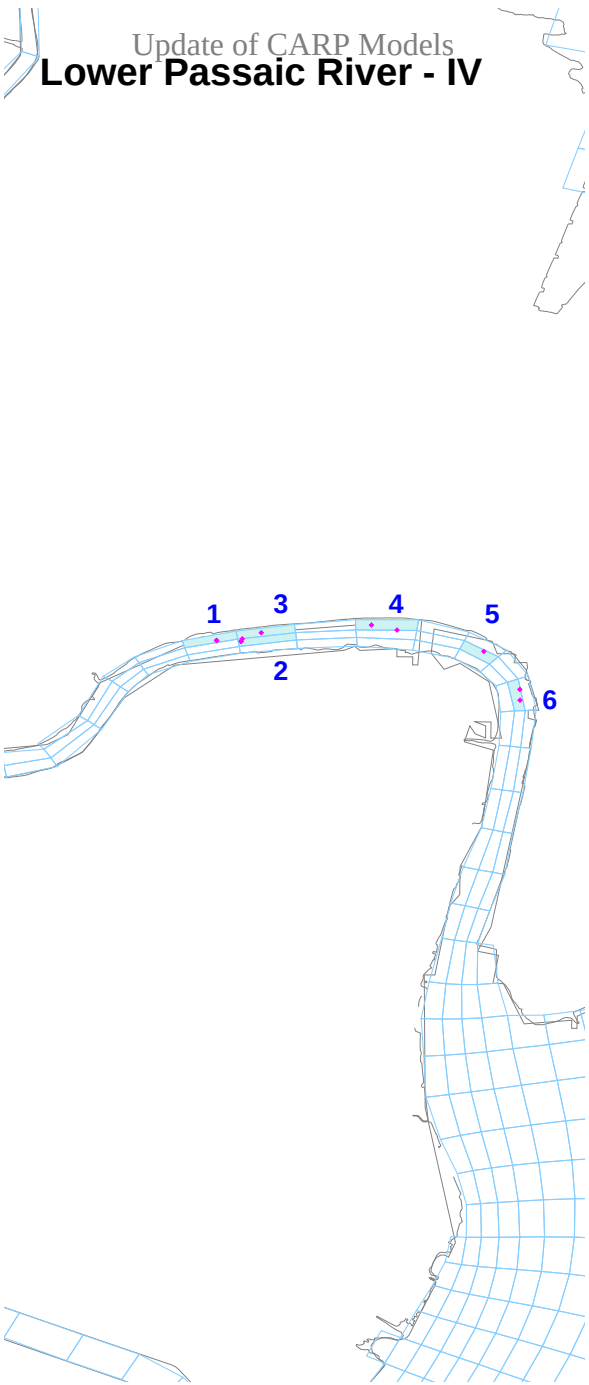
● Water Column Data: yearly mean and range

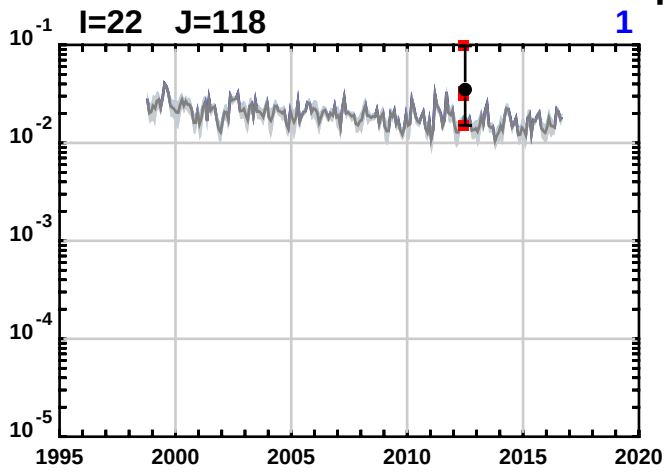
● CARP2 Data

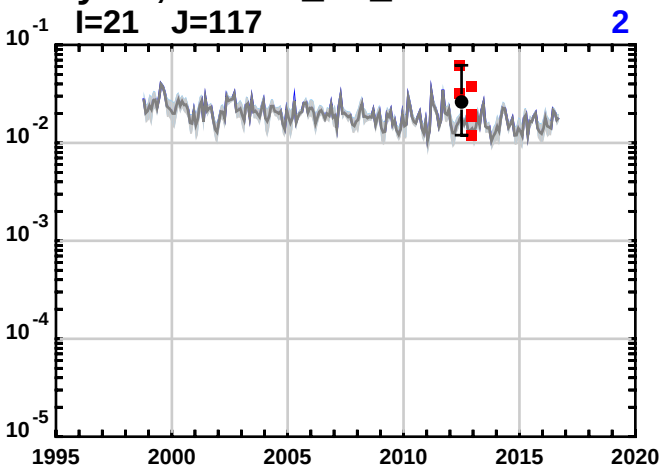
Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2

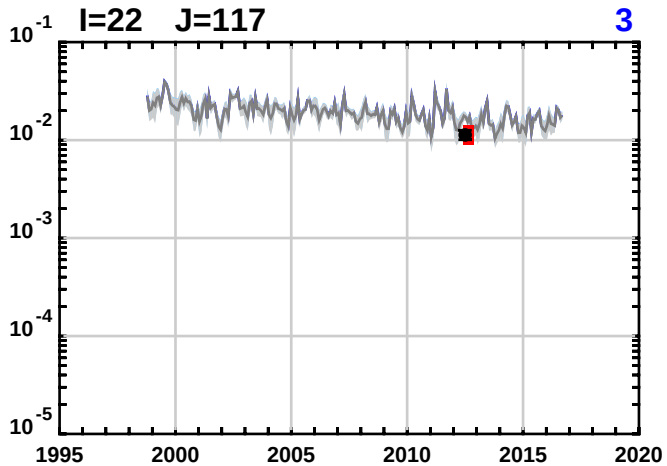
Update of CARP Models

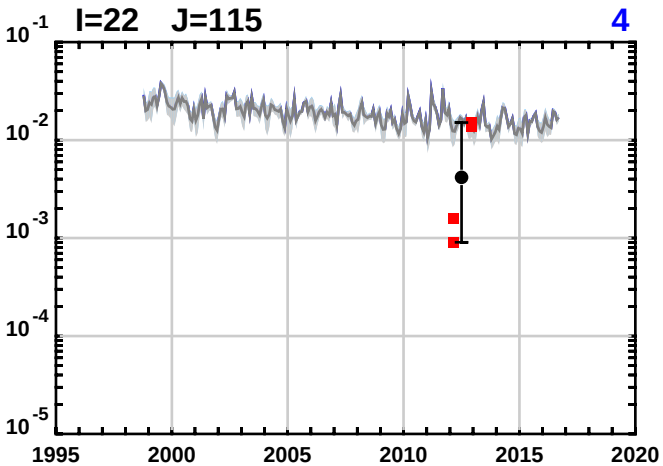
Lower Passaic River - IV

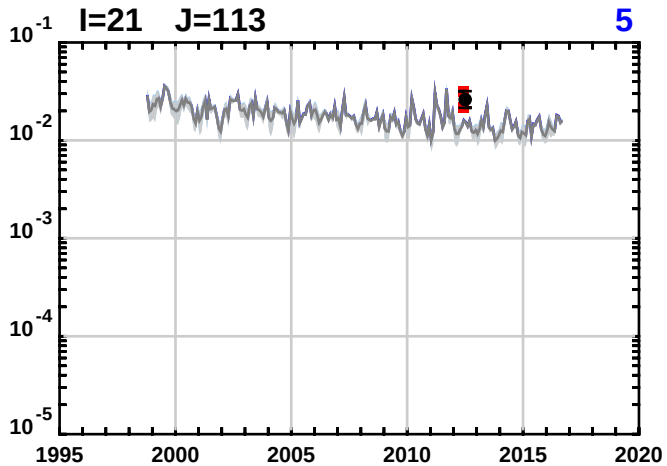


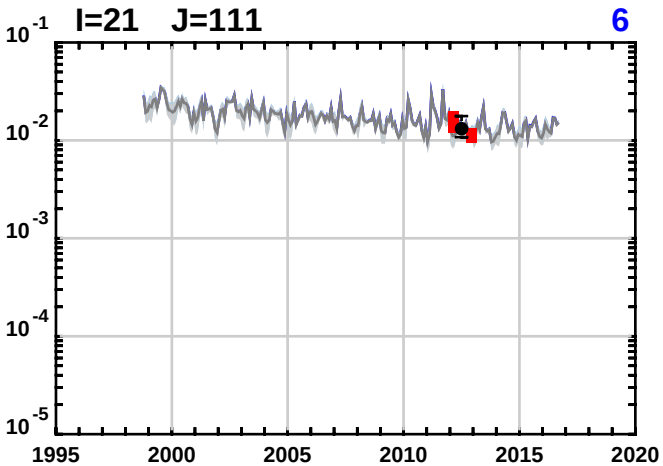












1,2,3,4,6,7,8-Heptachlorodibenzofuran, ng/L

Detect Data Non-Detect Data

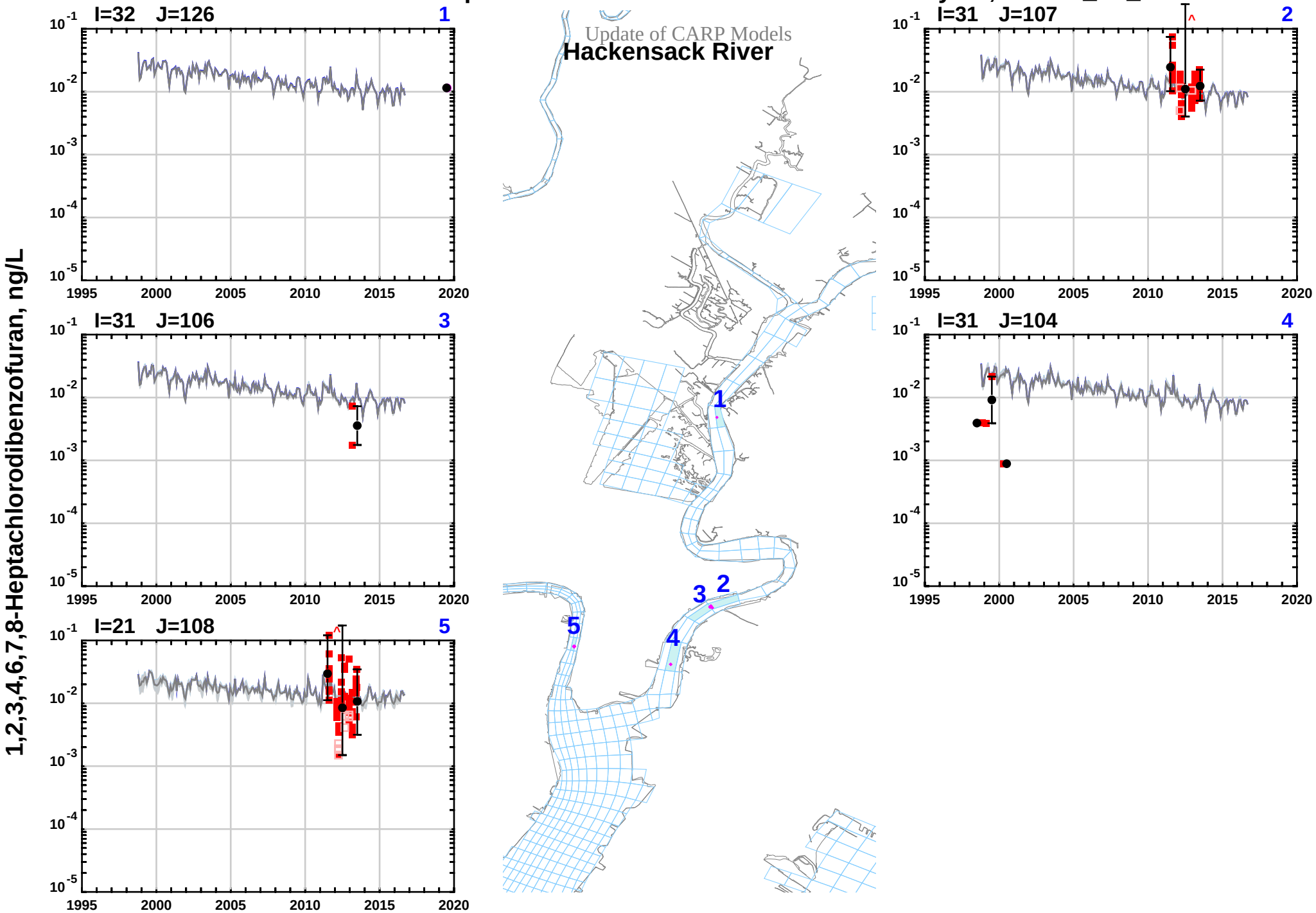
Model: mean and range of values in Water Column

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_S5_R2



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

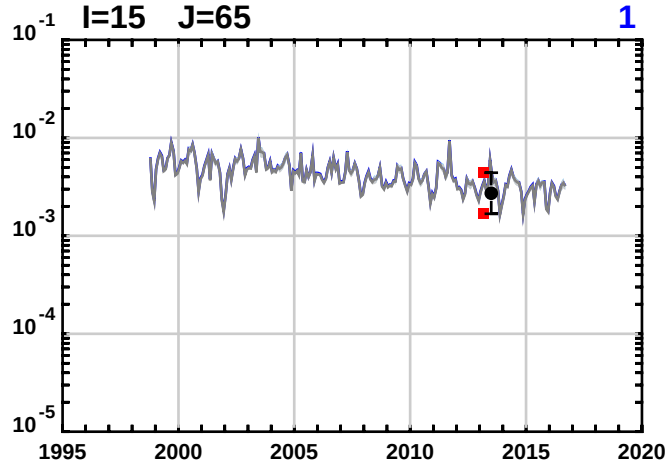
● CARP2 Data

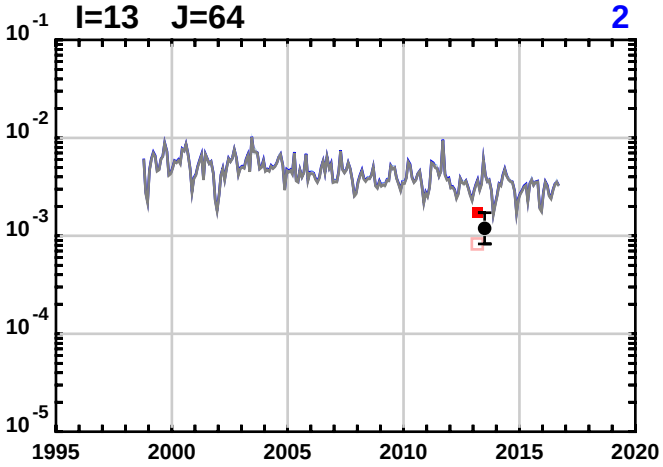
Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2

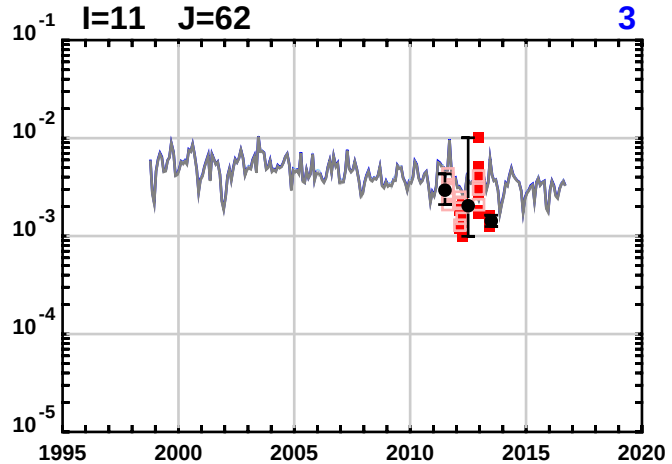
Update of CARP Models

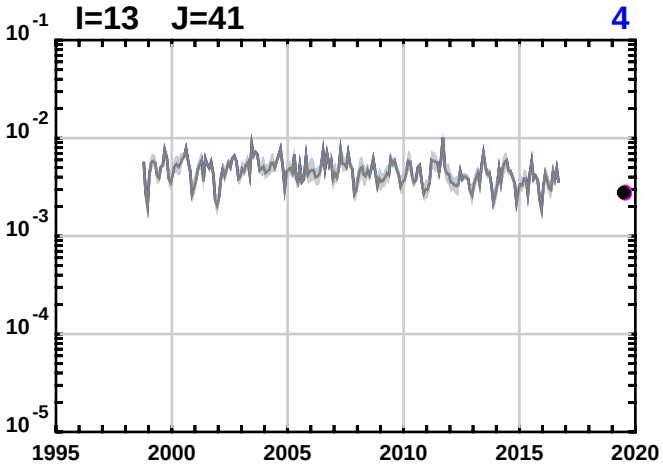
Arthur Kill

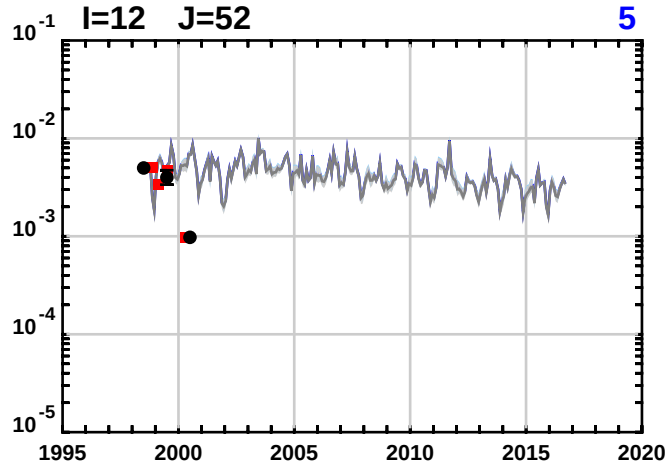
1,2,3,4,6,7,8-Heptachlorodibenzofuran, ng/L

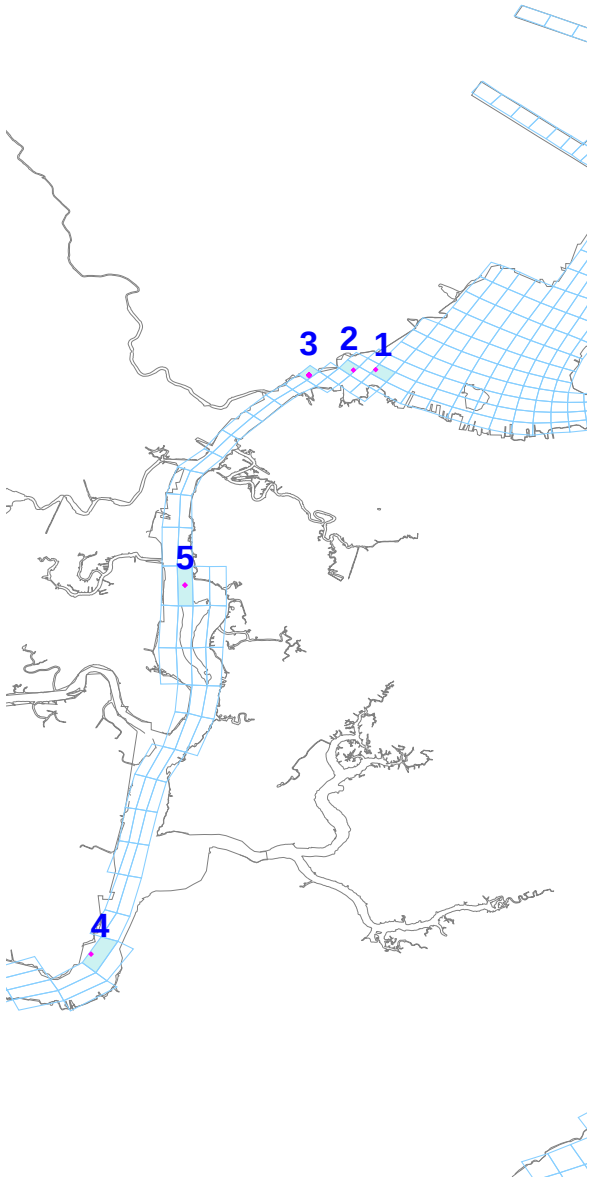












Detect Data Non-Detect Data

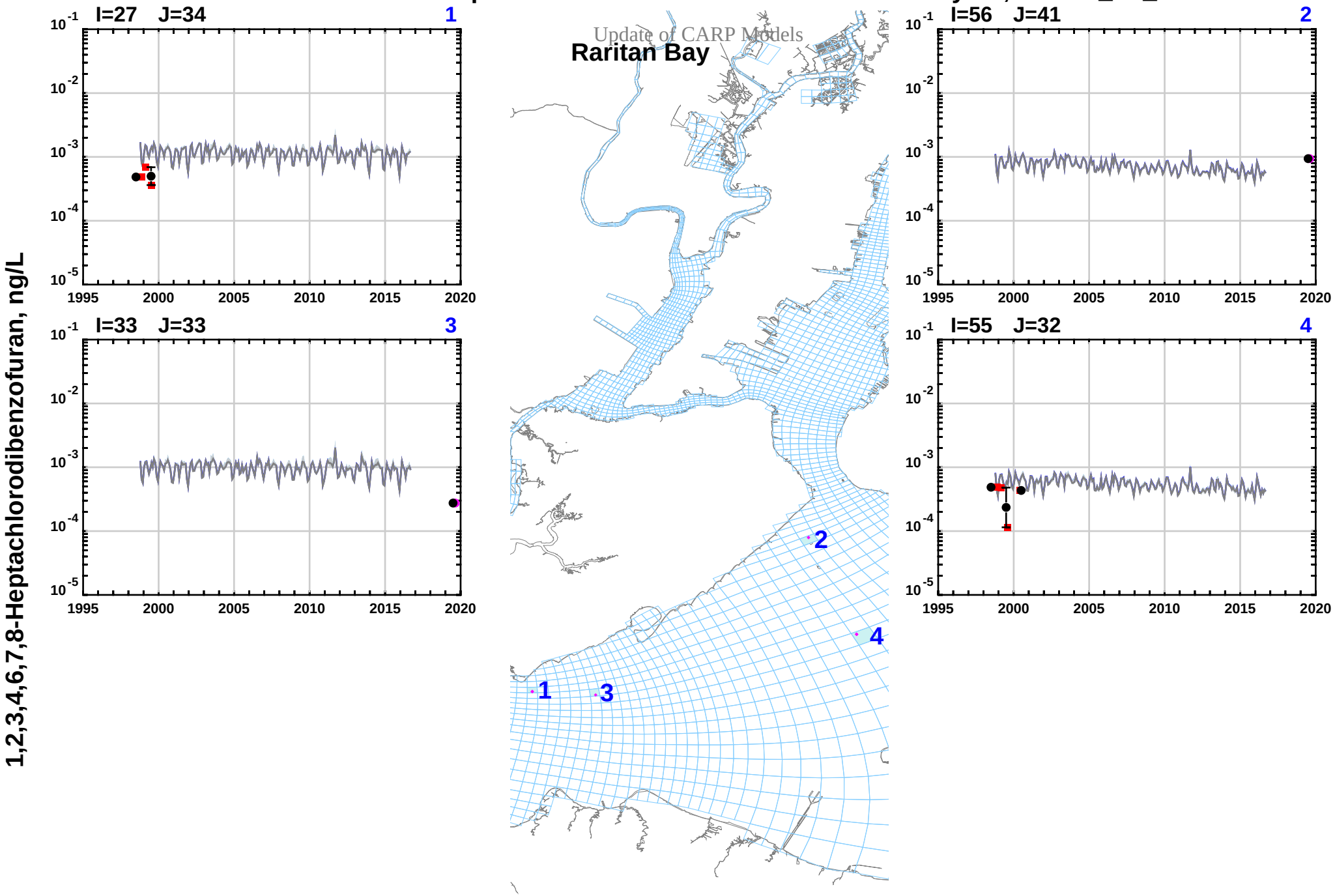
Model: mean and range of values in Water Column

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_S5_R2



Detect Data Non-Detect Data

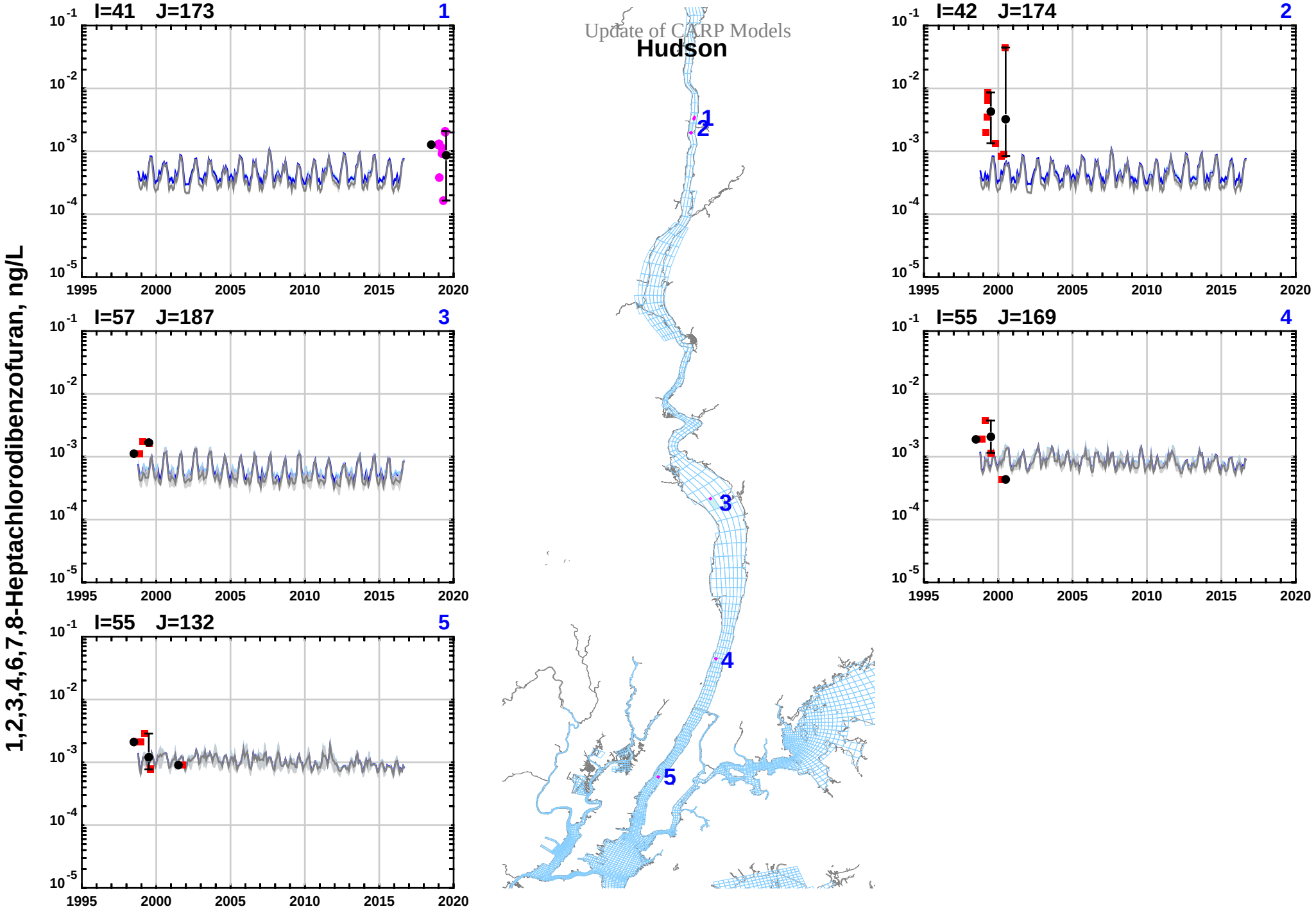
Model: mean and range of values in Water Column

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_S5_R2



Detect Data Non-Detect Data

Model: mean and range of values in Water Column

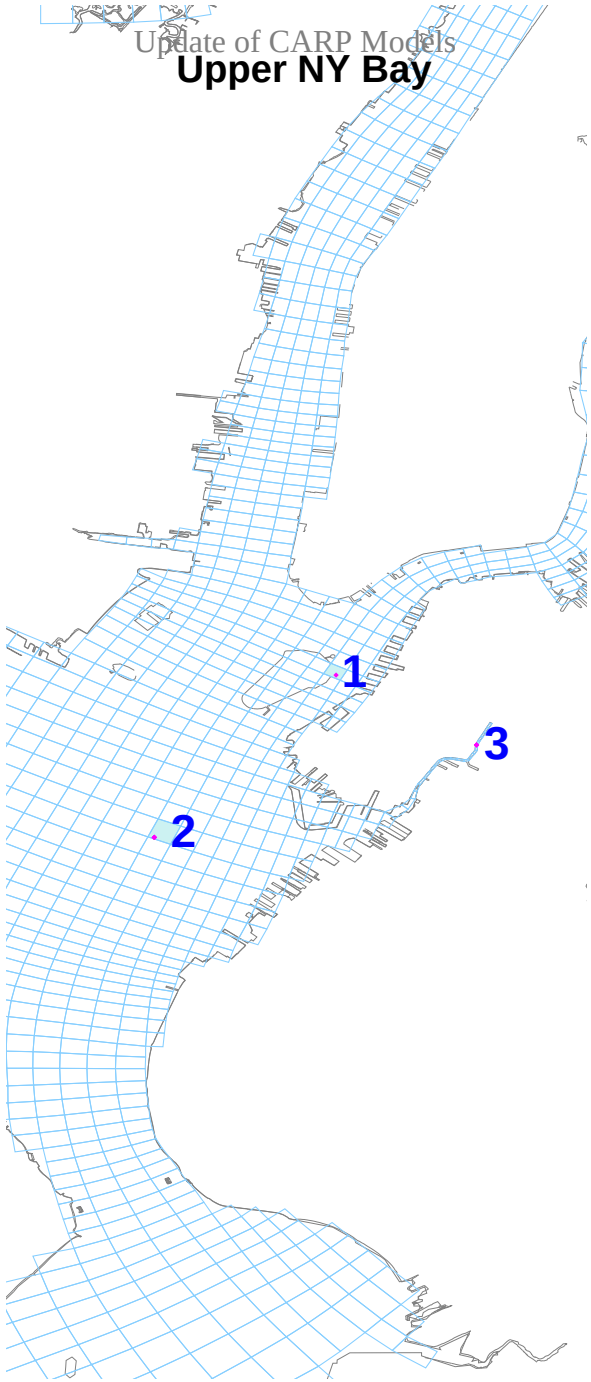
Model: Particulate Phase mean and range of values in Water Column

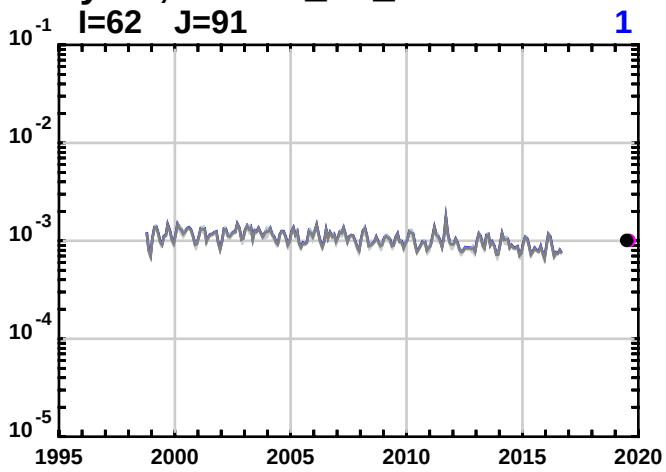
● Water Column Data: yearly mean and range

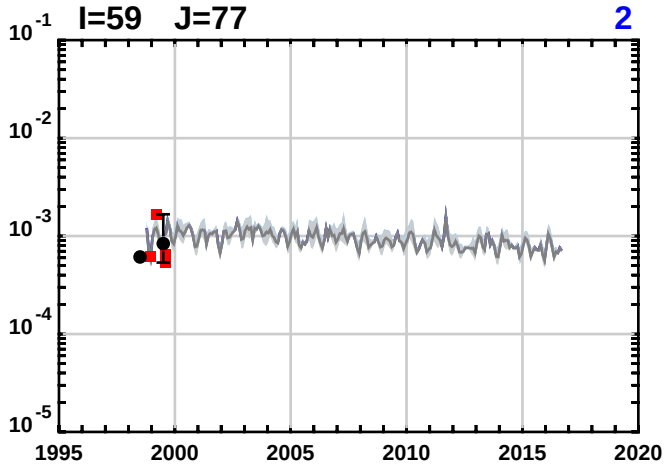
● CARP2 Data

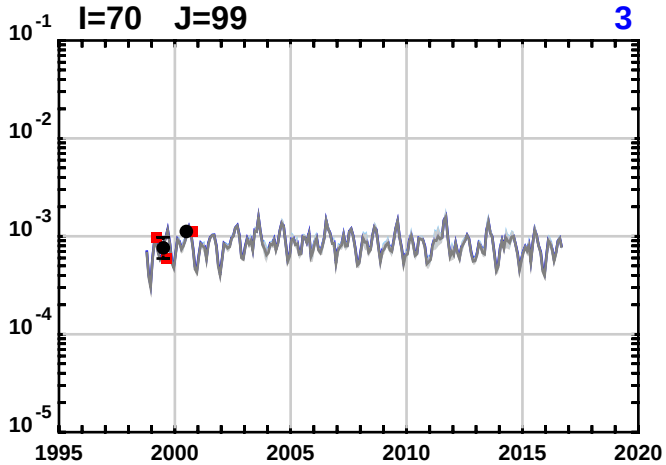
Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2

1,2,3,4,6,7,8-Heptachlorodibenzofuran, ng/L









Detect Data Non-Detect Data

Model: mean and range of values in Water Column

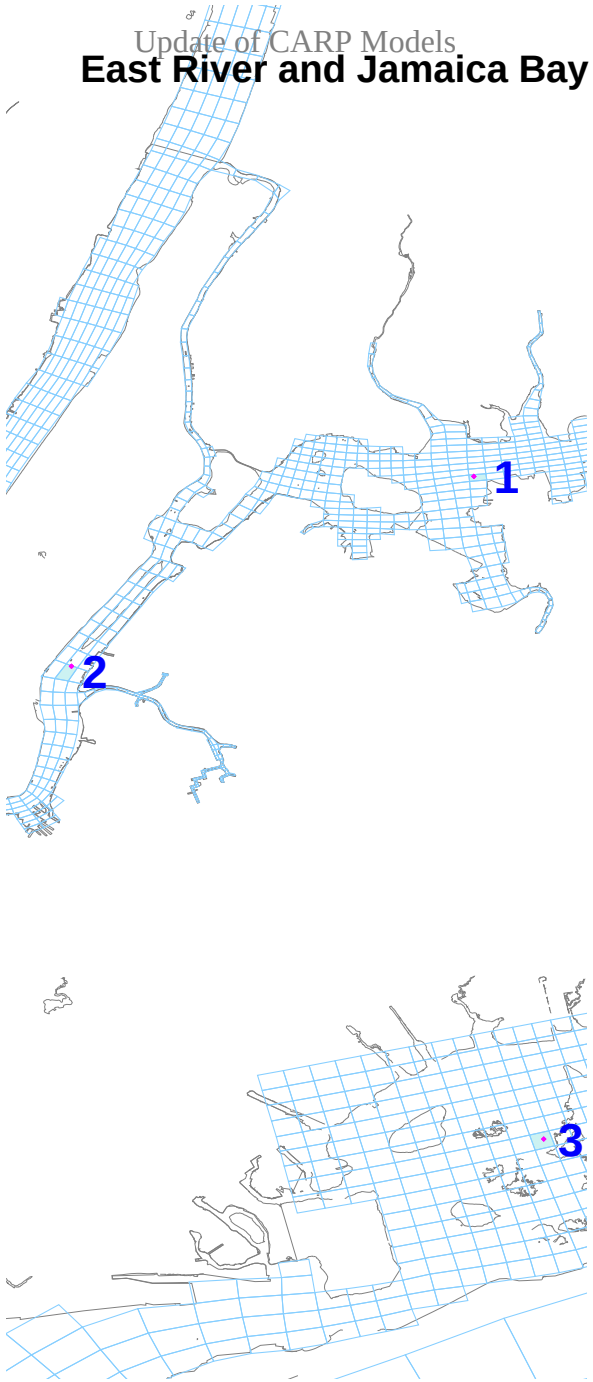
Model: Particulate Phase mean and range of values in Water Column

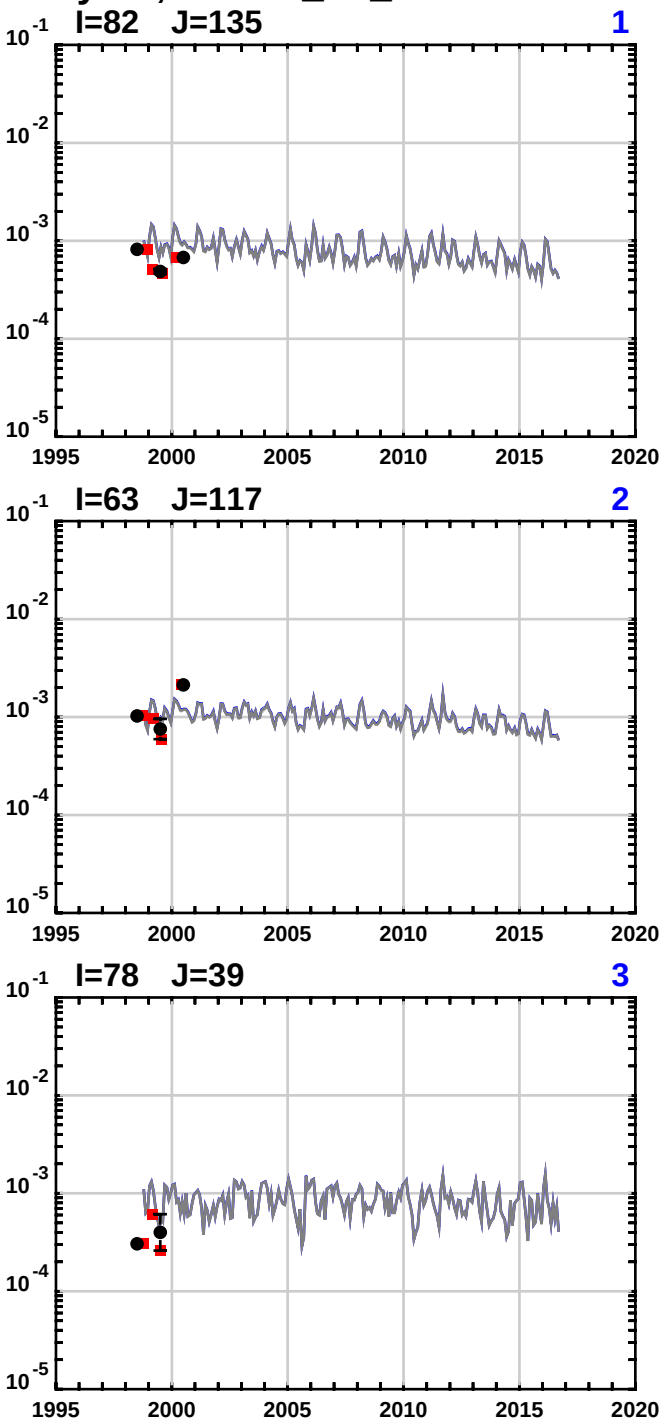
● Water Column Data: yearly mean and range

● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2

East River and Jamaica Bay





1,2,3,4,6,7,8-Heptachlorodibenzofuran, ng/L

Detect Data Non-Detect Data

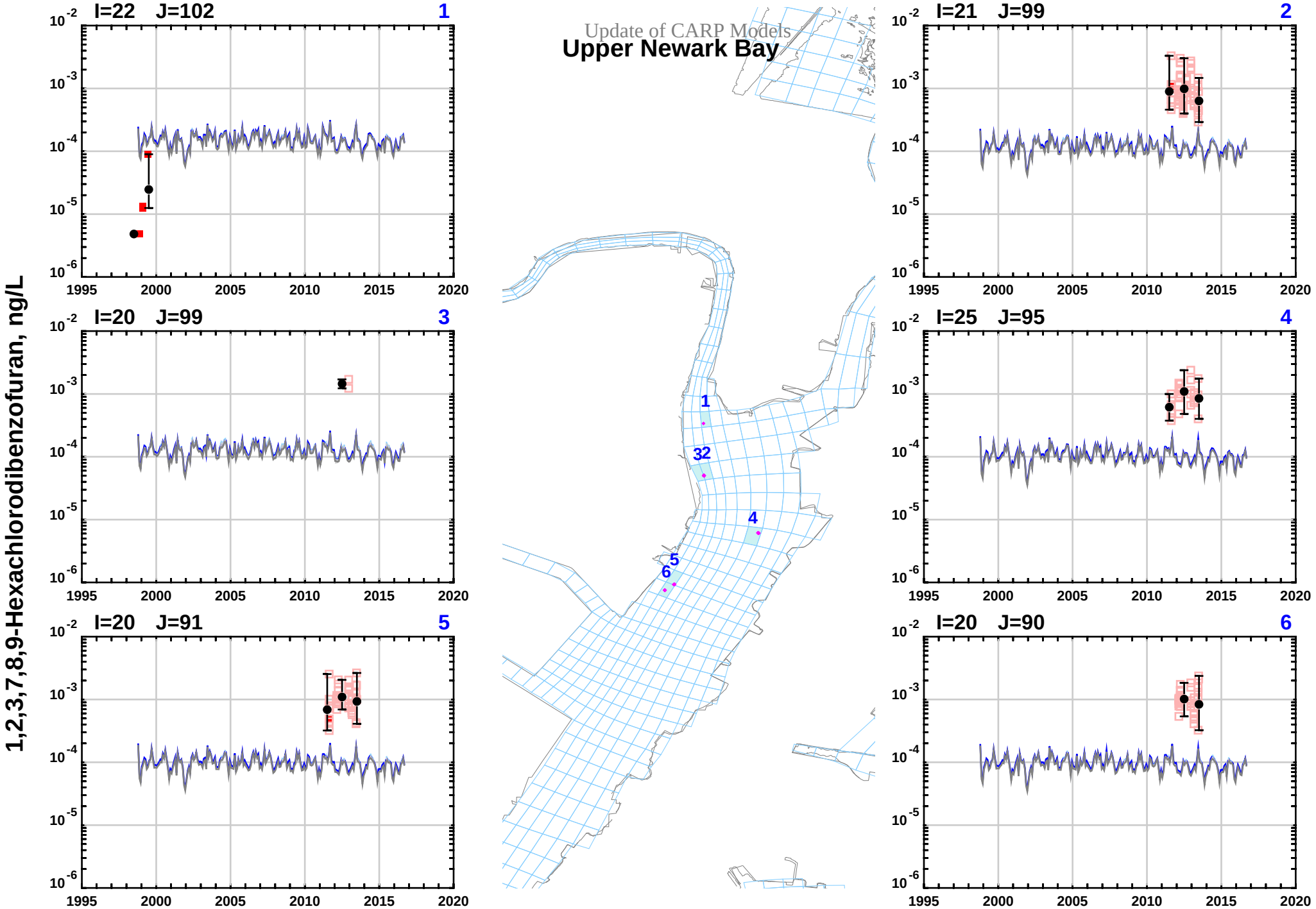
Model: mean and range of values in Water Column

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_S4_R2



Detect Data Non-Detect Data

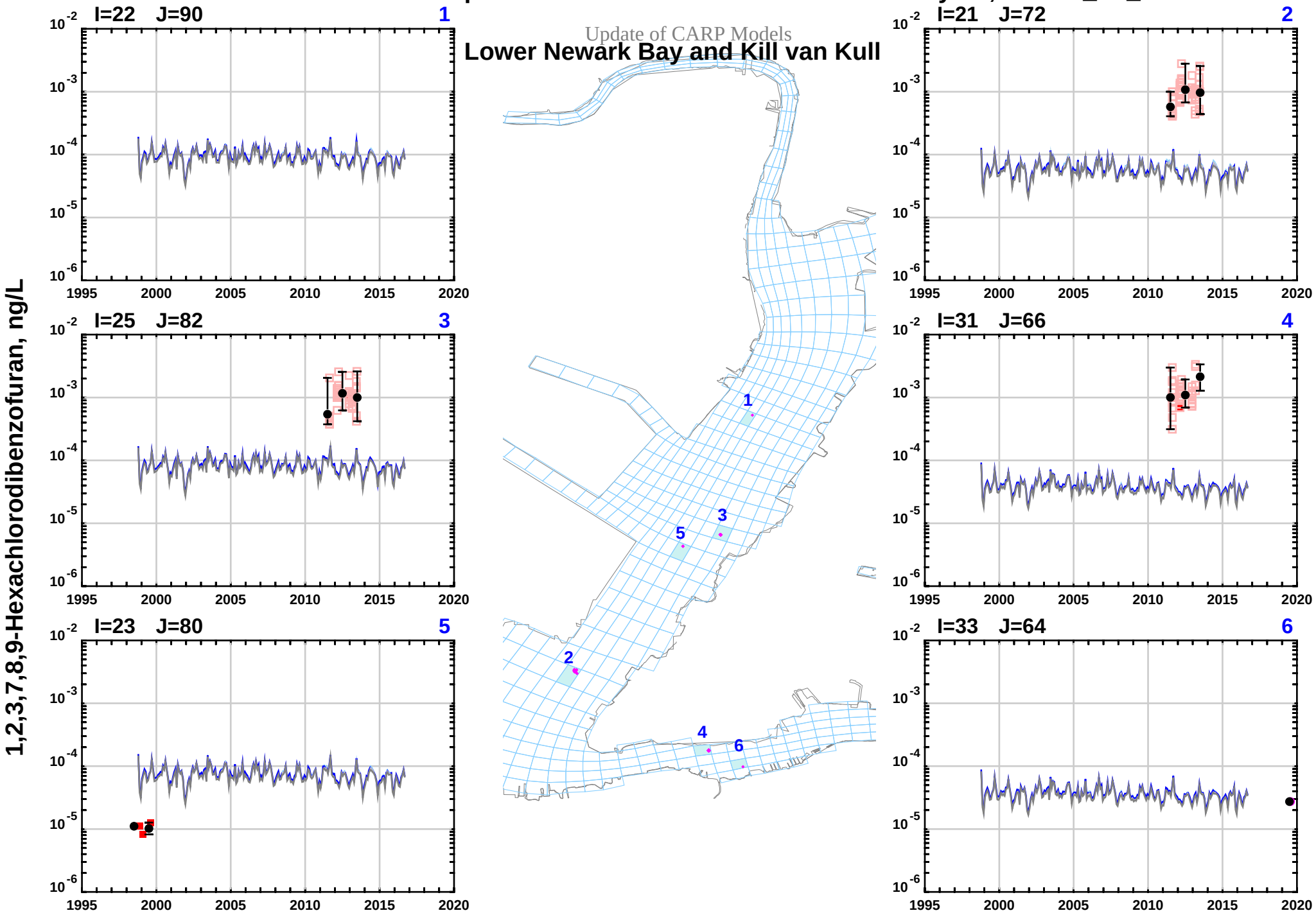
Model: mean and range of values in Water Column

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_S4_R2



Detect Data Non-Detect Data

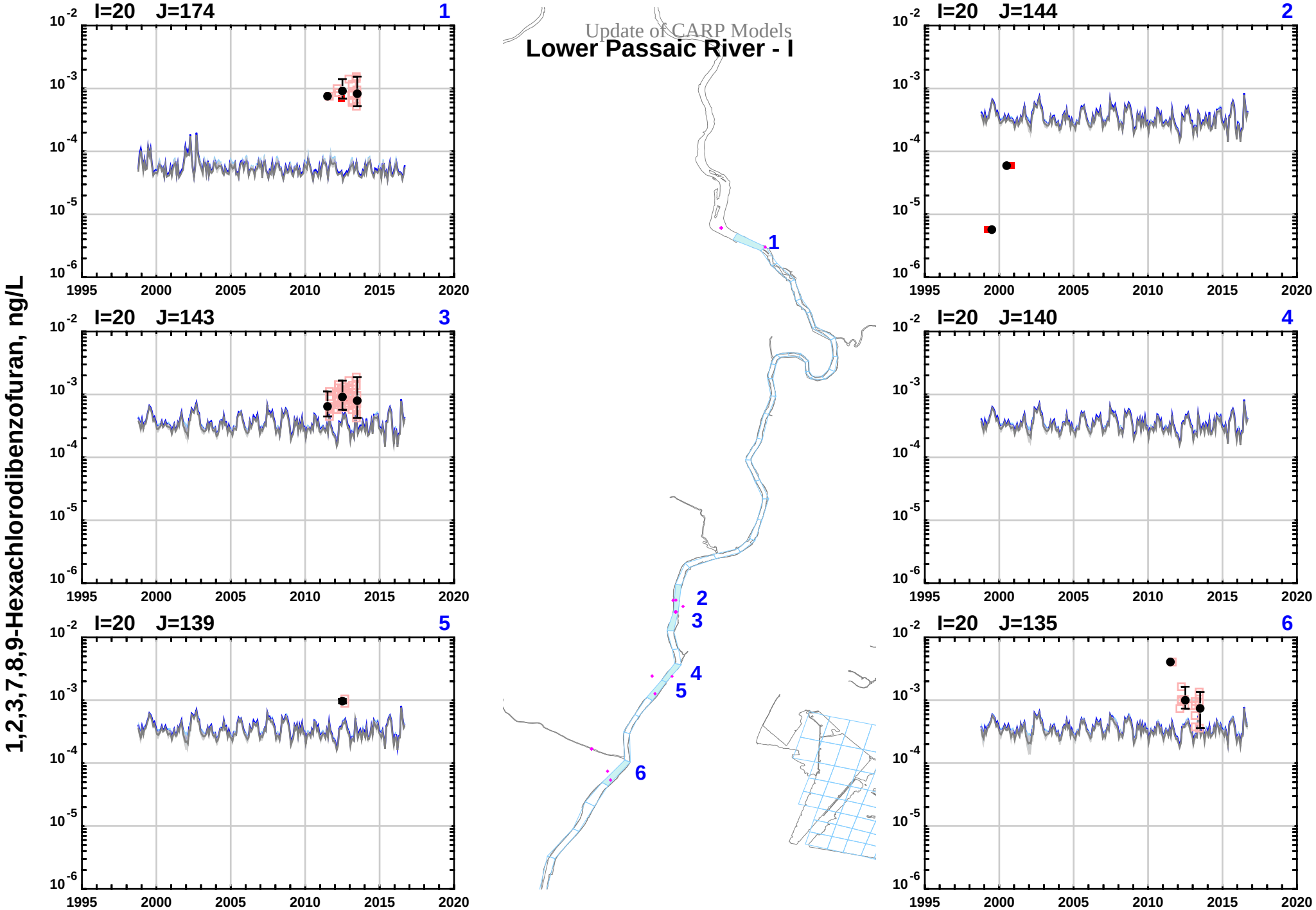
Model: mean and range of values in Water Column

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

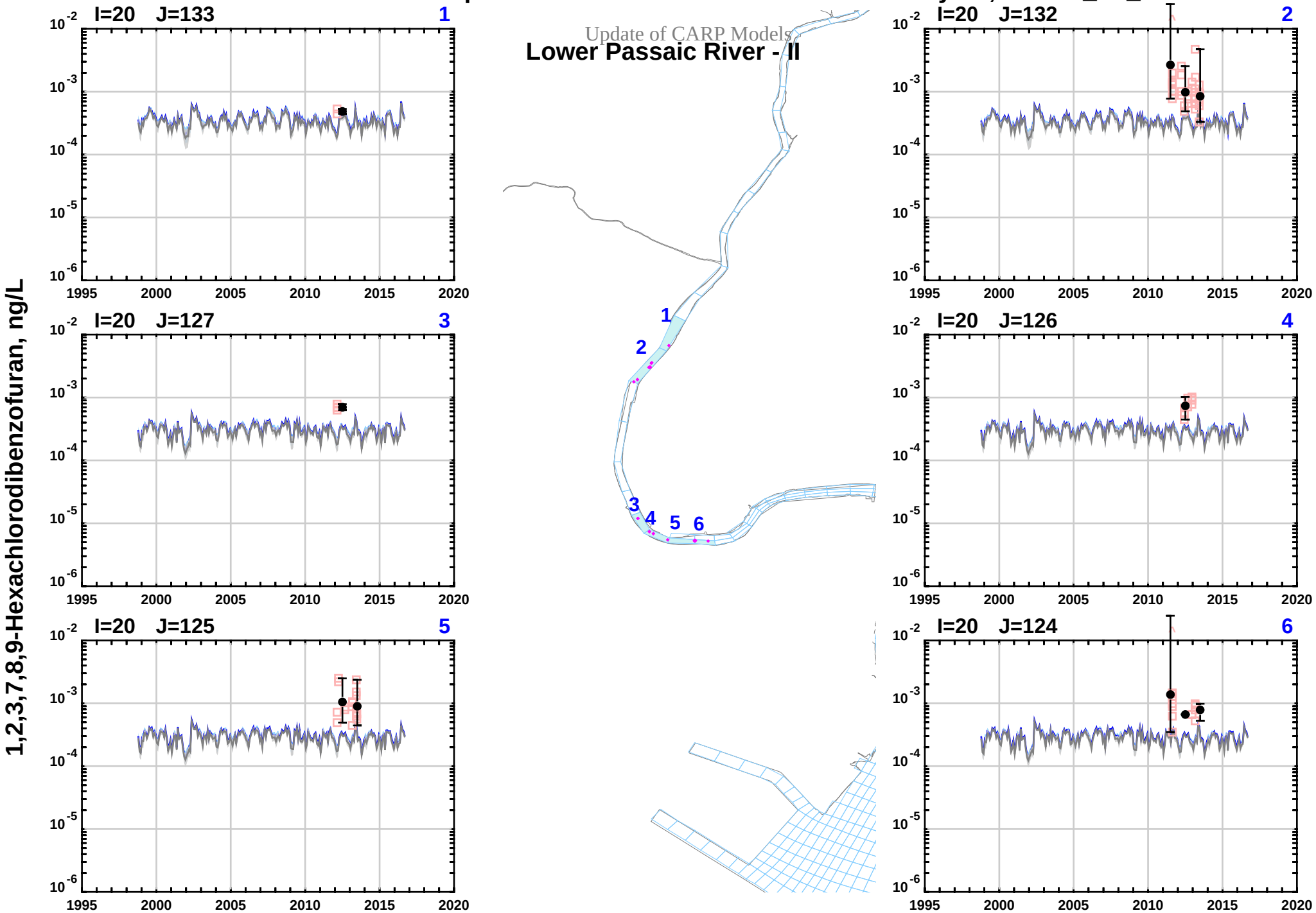
● Water Column Data: yearly mean and range

● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2



Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2



Detect Data Non-Detect Data

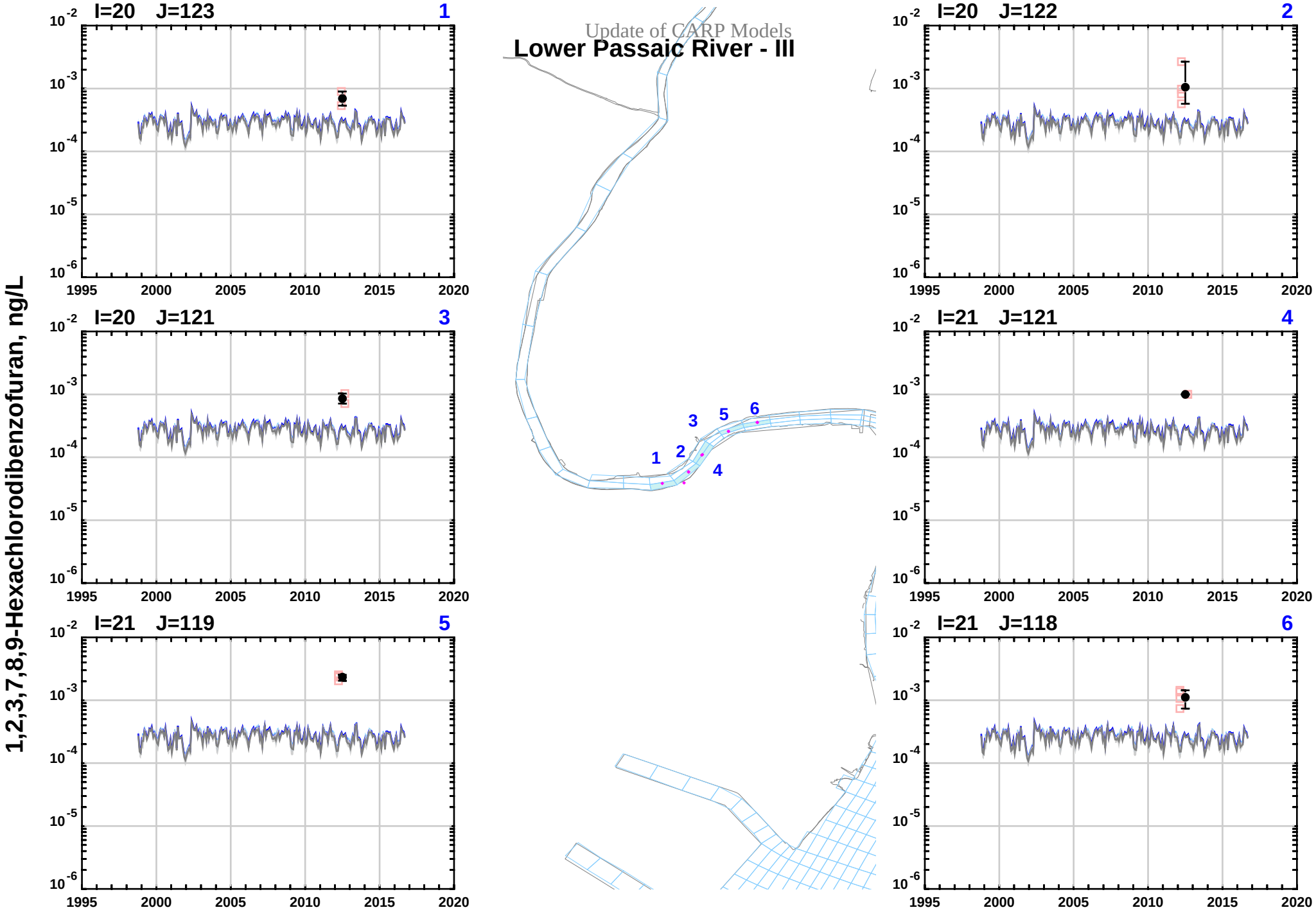
Model: mean and range of values in Water Column

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_S4_R2



Detect Data Non-Detect Data

Model: mean and range of values in Water Column

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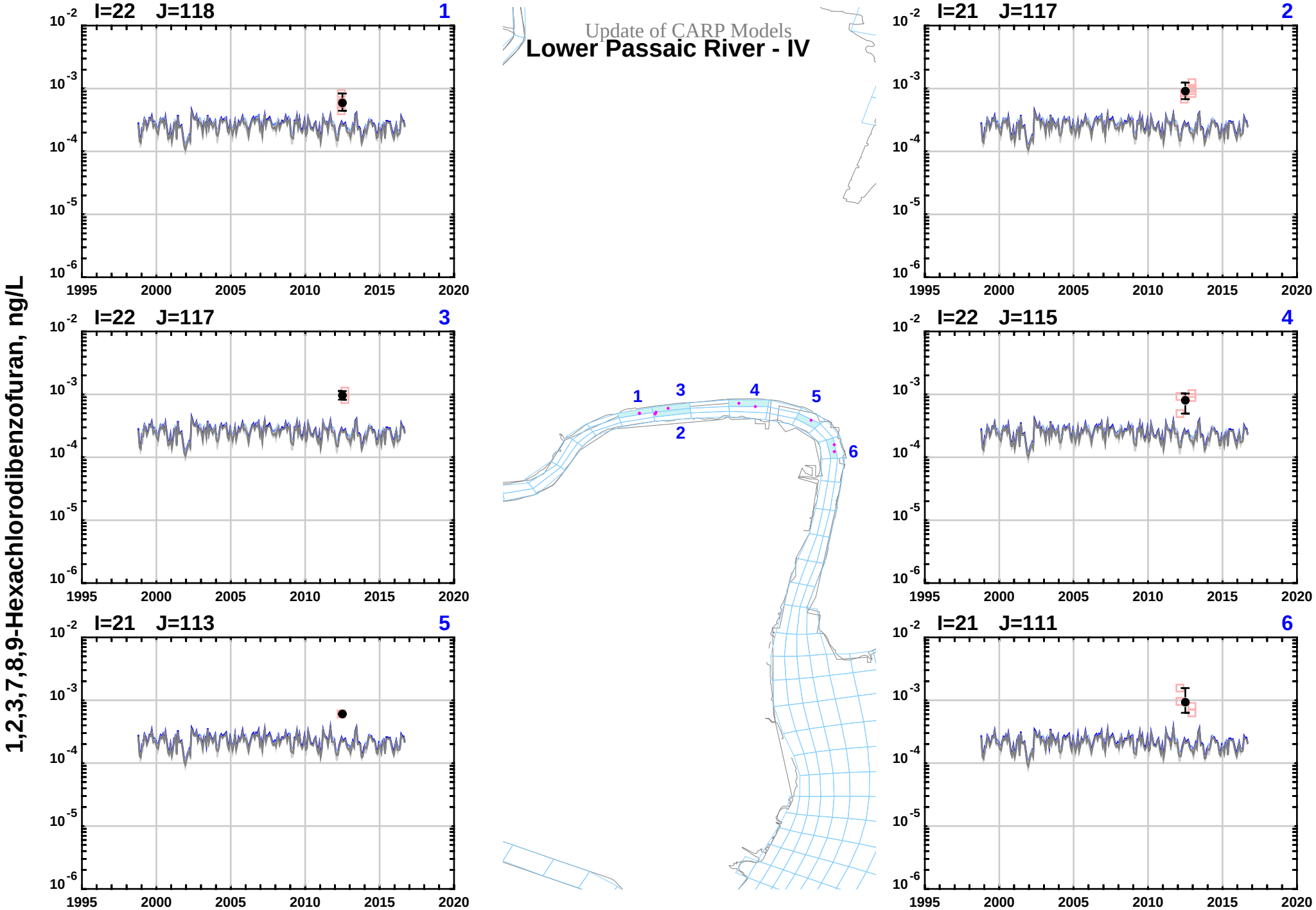
● Water Column Data: yearly mean and range

● CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2



Detect Data Non-Detect Data

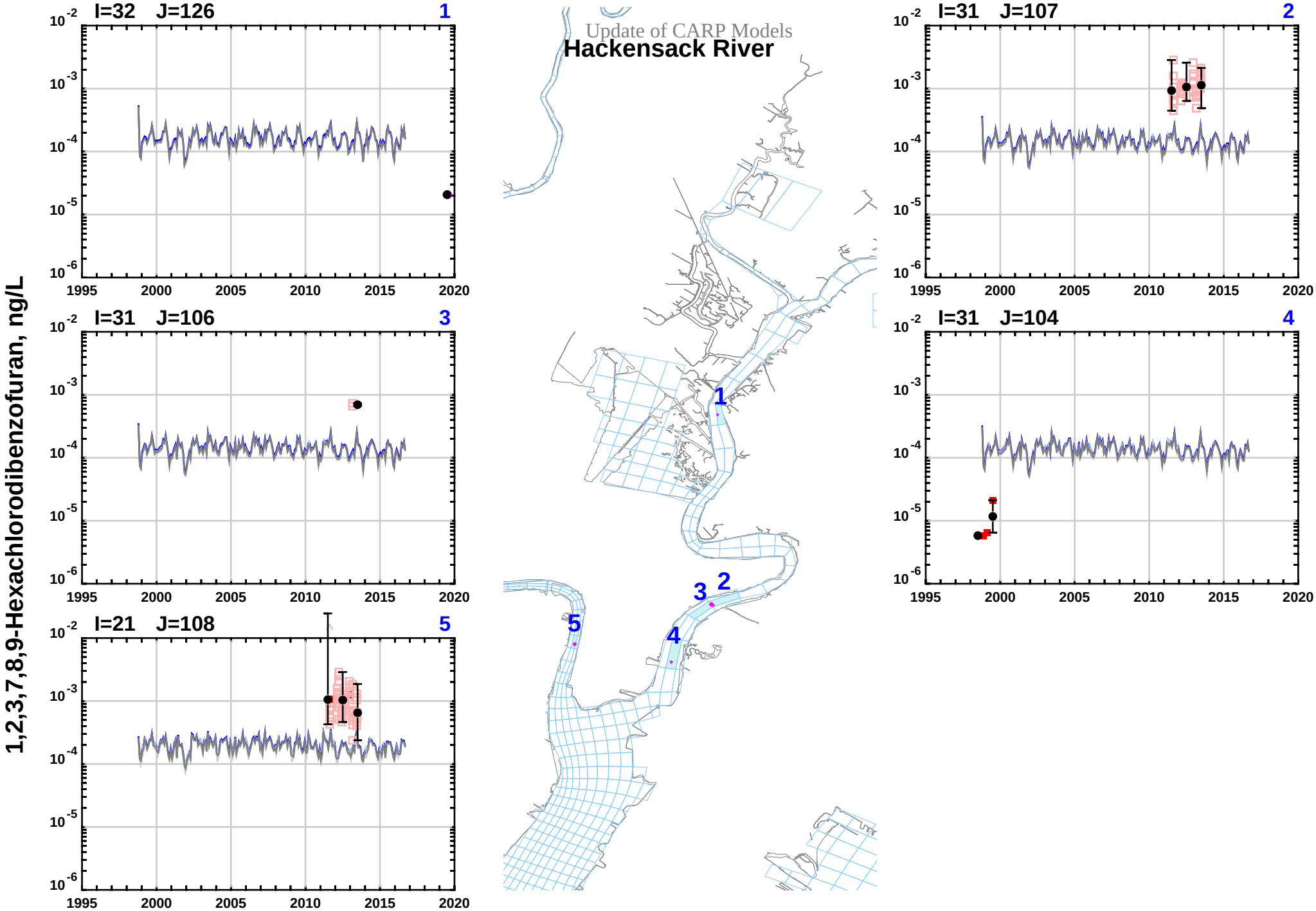
Model: mean and range of values in Water Column

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_S4_R2



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

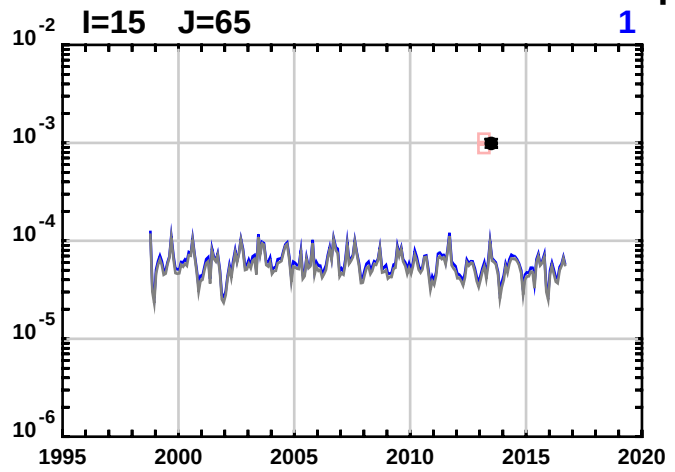
● Water Column Data: yearly mean and range

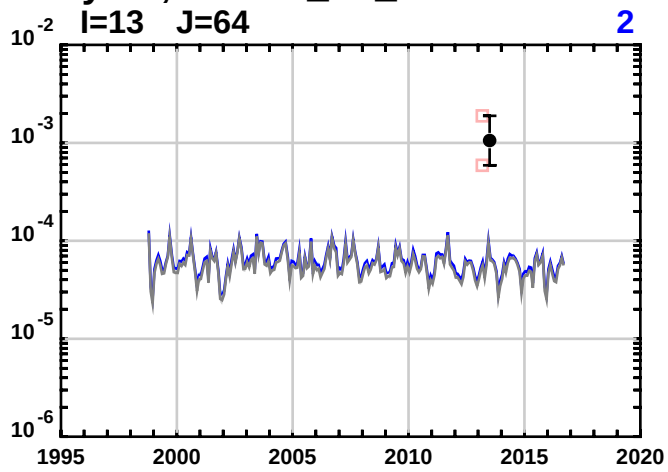
● CARP2 Data

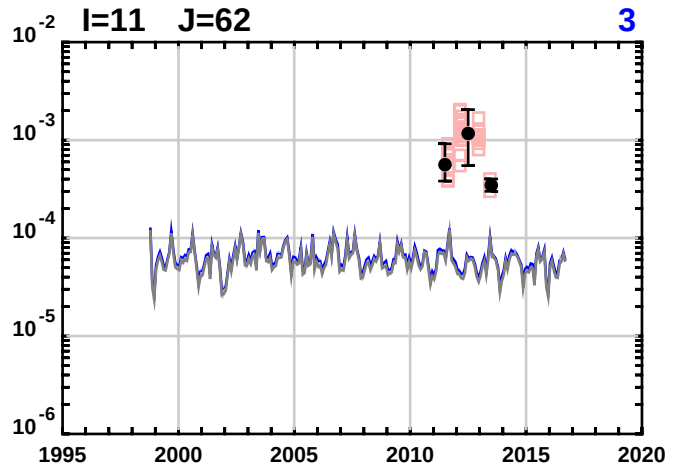
Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2

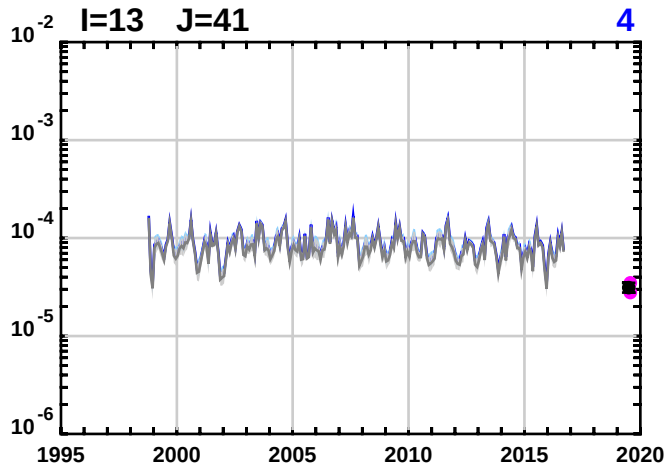
Update of CARP Models

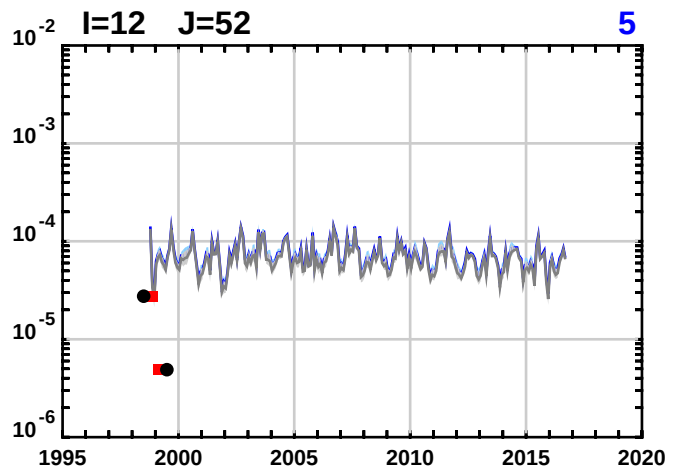
Arthur Kill

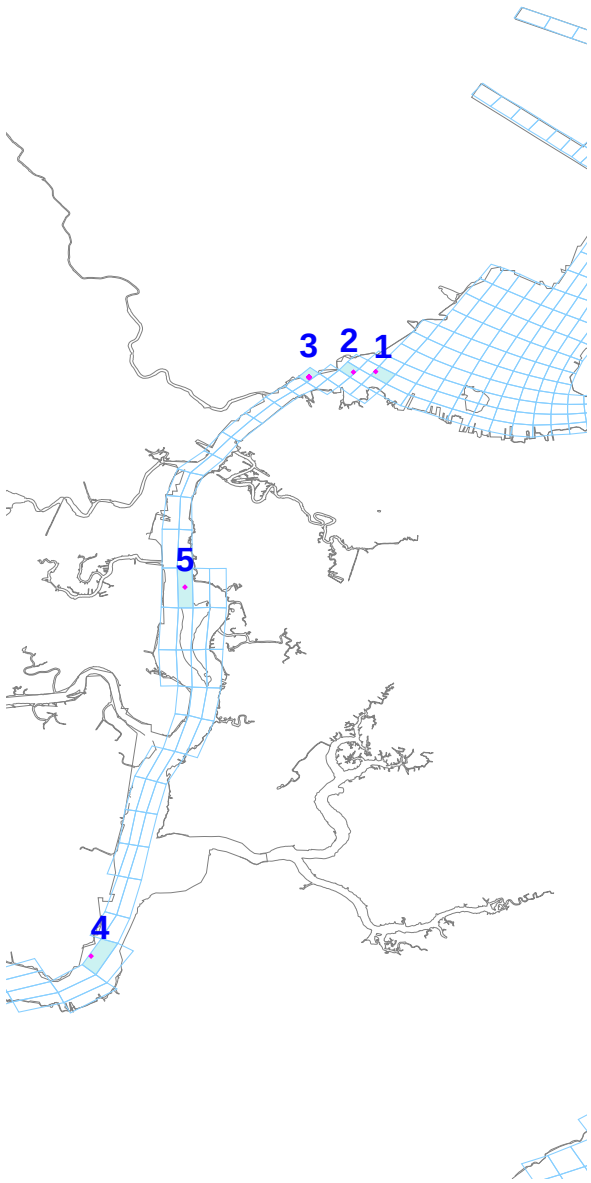












1,2,3,7,8,9-Hexachlorodibenzofuran, ng/L

Detect Data Non-Detect Data

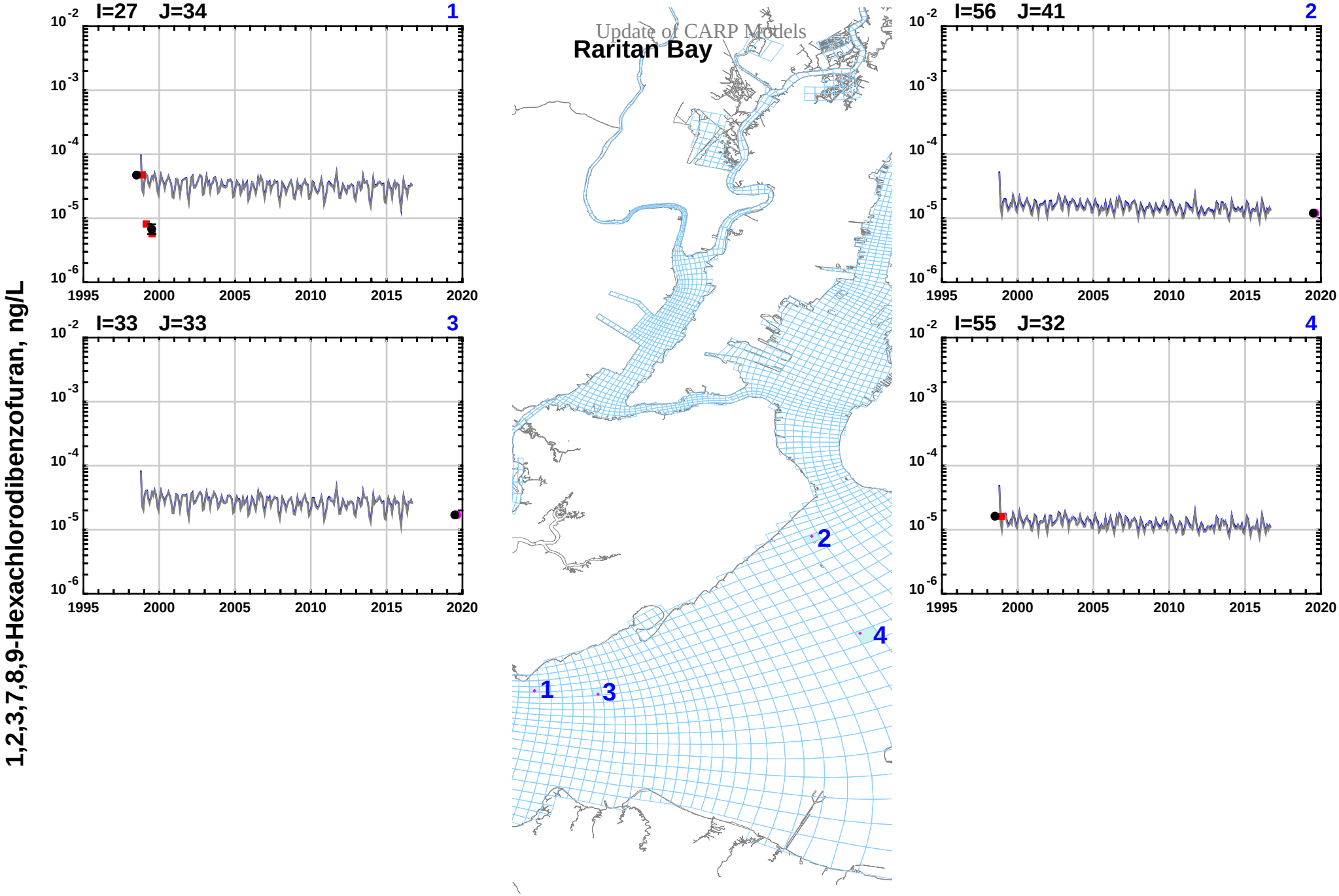
Model: mean and range of values in Water Column

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_S4_R2



Detect Data Non-Detect Data

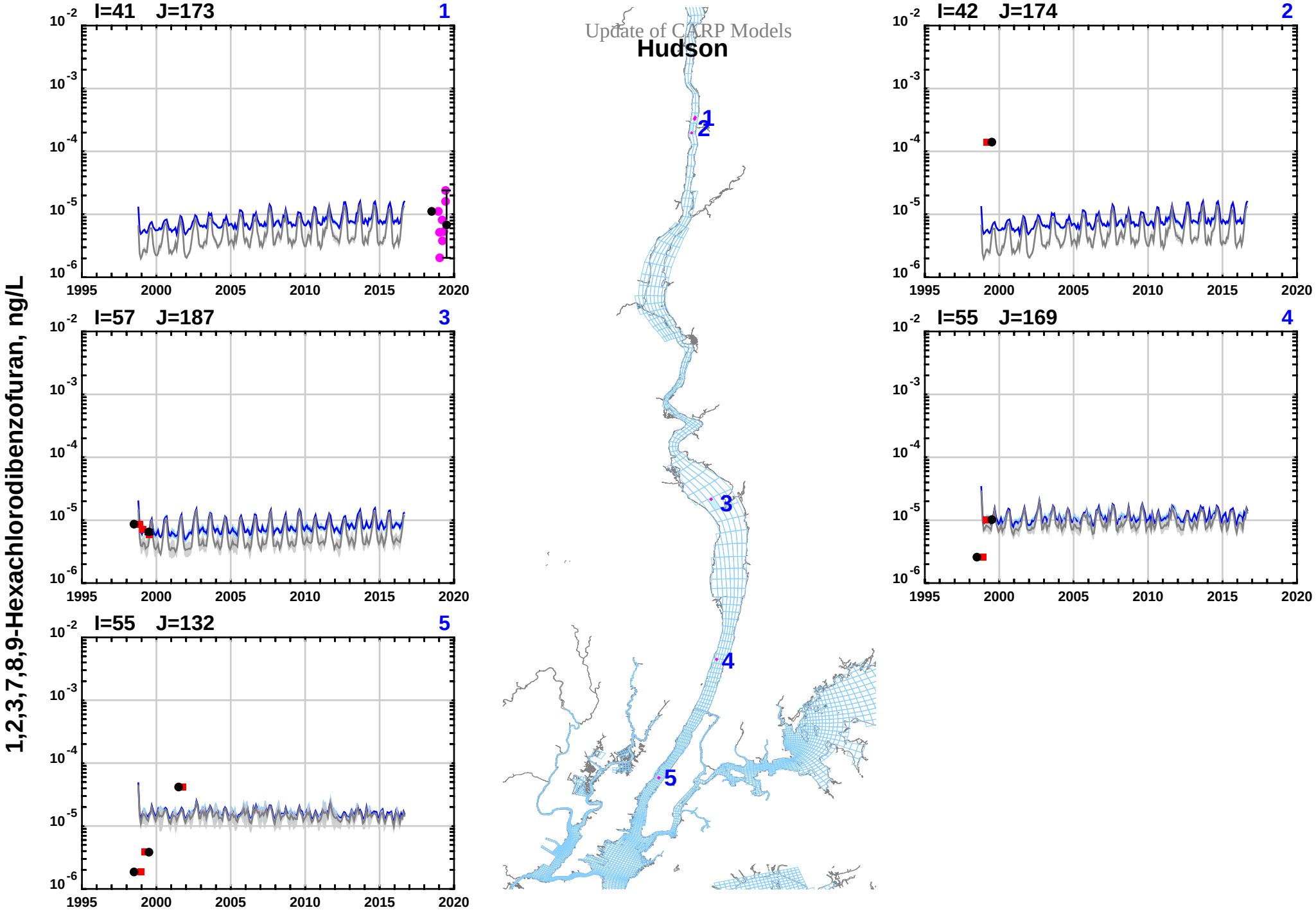
Model: mean and range of values in Water Column

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_S4_R2



Detect Data Non-Detect Data

Model: mean and range of values in Water Column

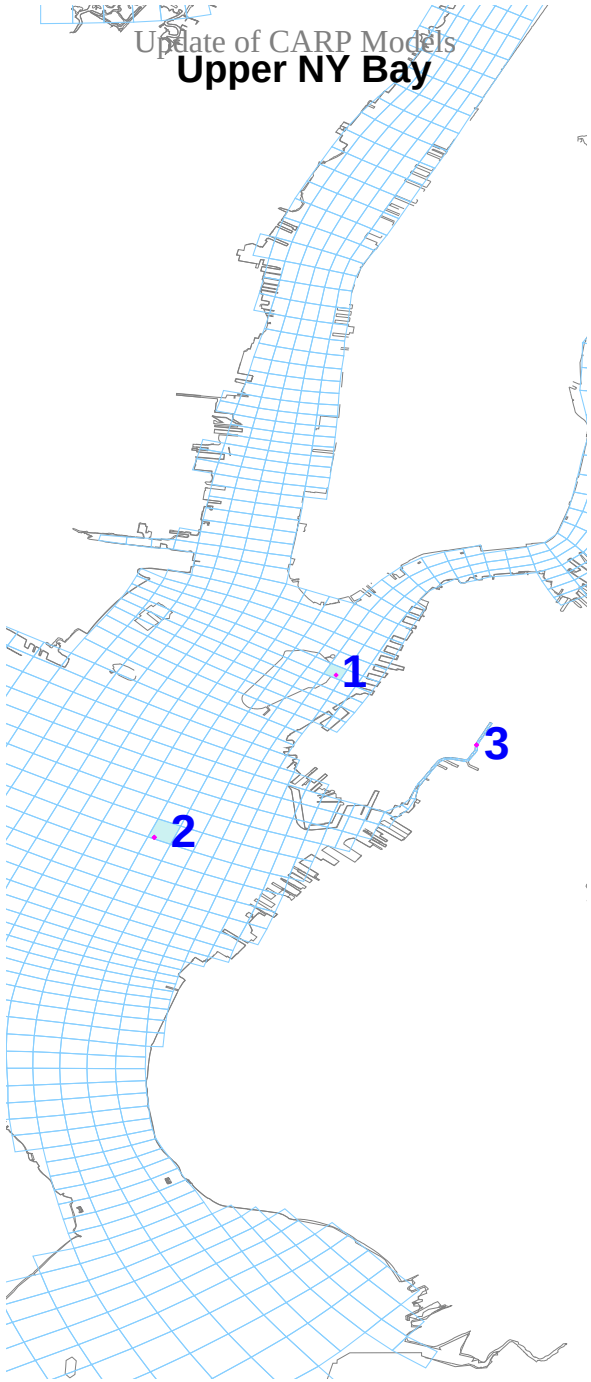
Model: Particulate Phase mean and range of values in Water Column

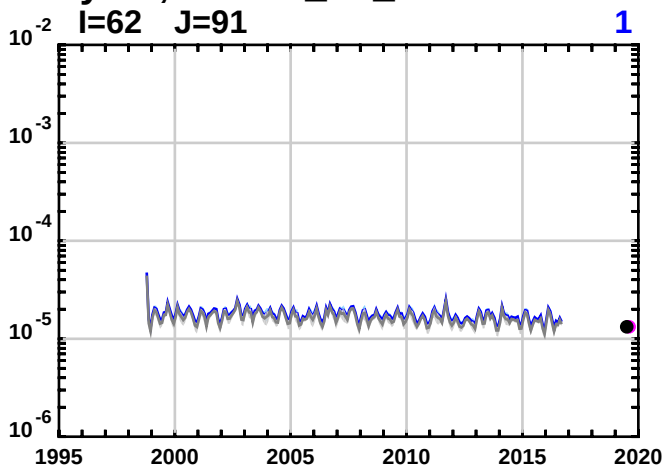
● Water Column Data: yearly mean and range

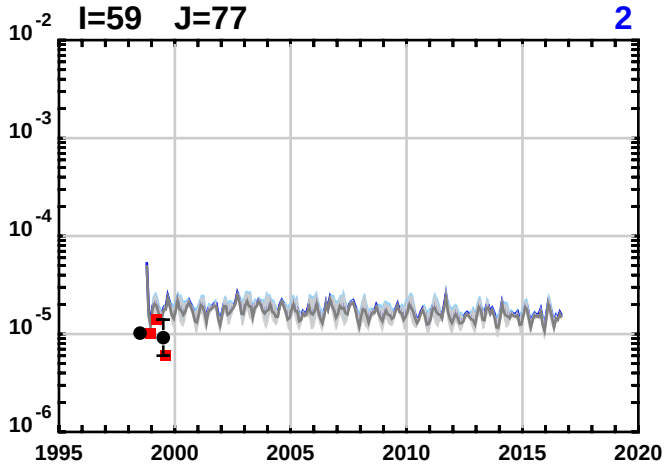
● CARP2 Data

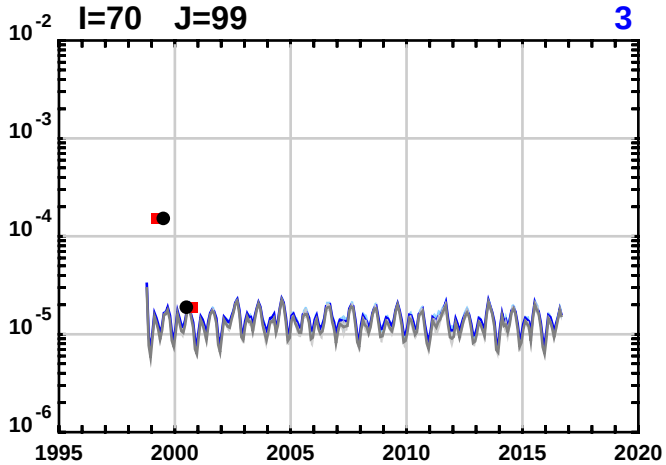
Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2

1,2,3,7,8,9-Hexachlorodibenzofuran, 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

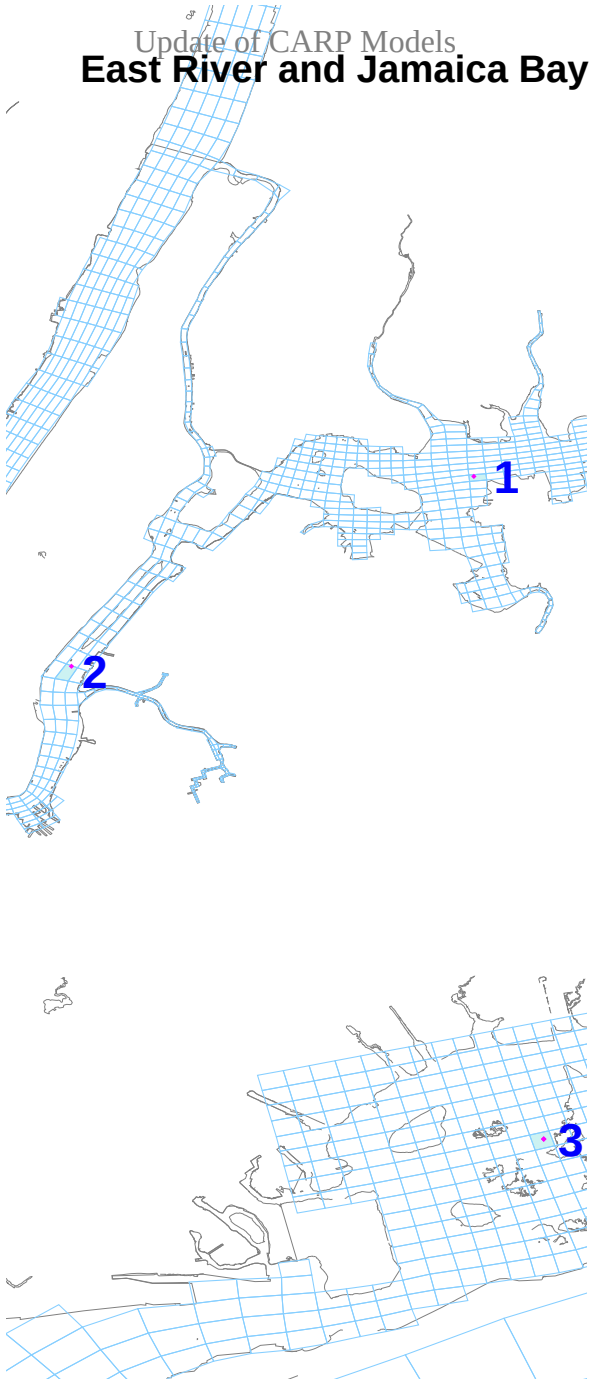
● Water Column Data: yearly mean and range

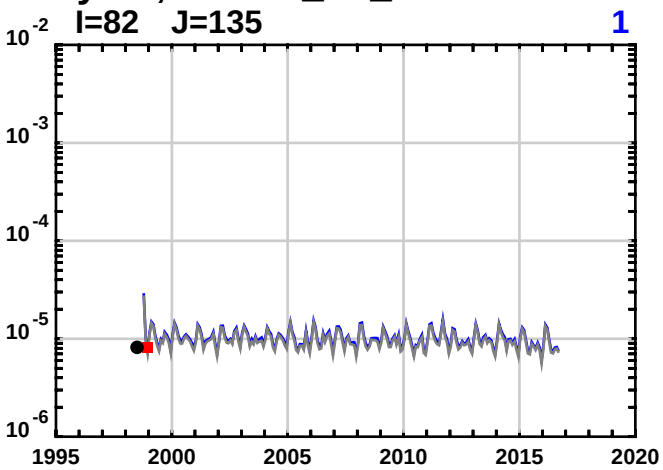
● CARP2 Data

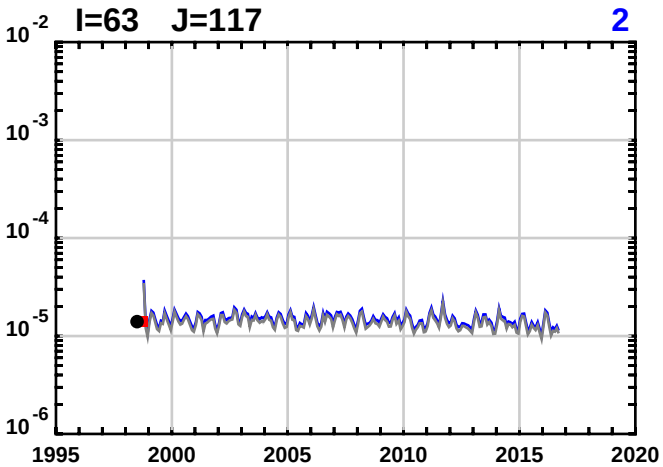
Water Column Data Comparison With Model All Water Column Layers, RUN18_S4_R2

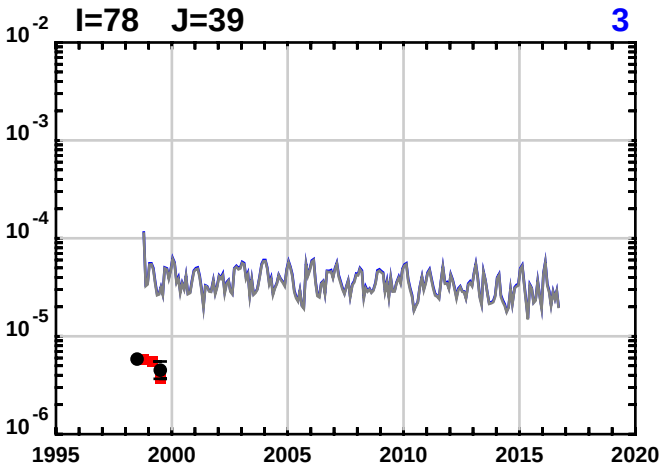
Update of CARP Models

East River and Jamaica Bay









1,2,3,7,8,9-Hexachlorodibenzofuran, ng/L

Detect Data Non-Detect Data

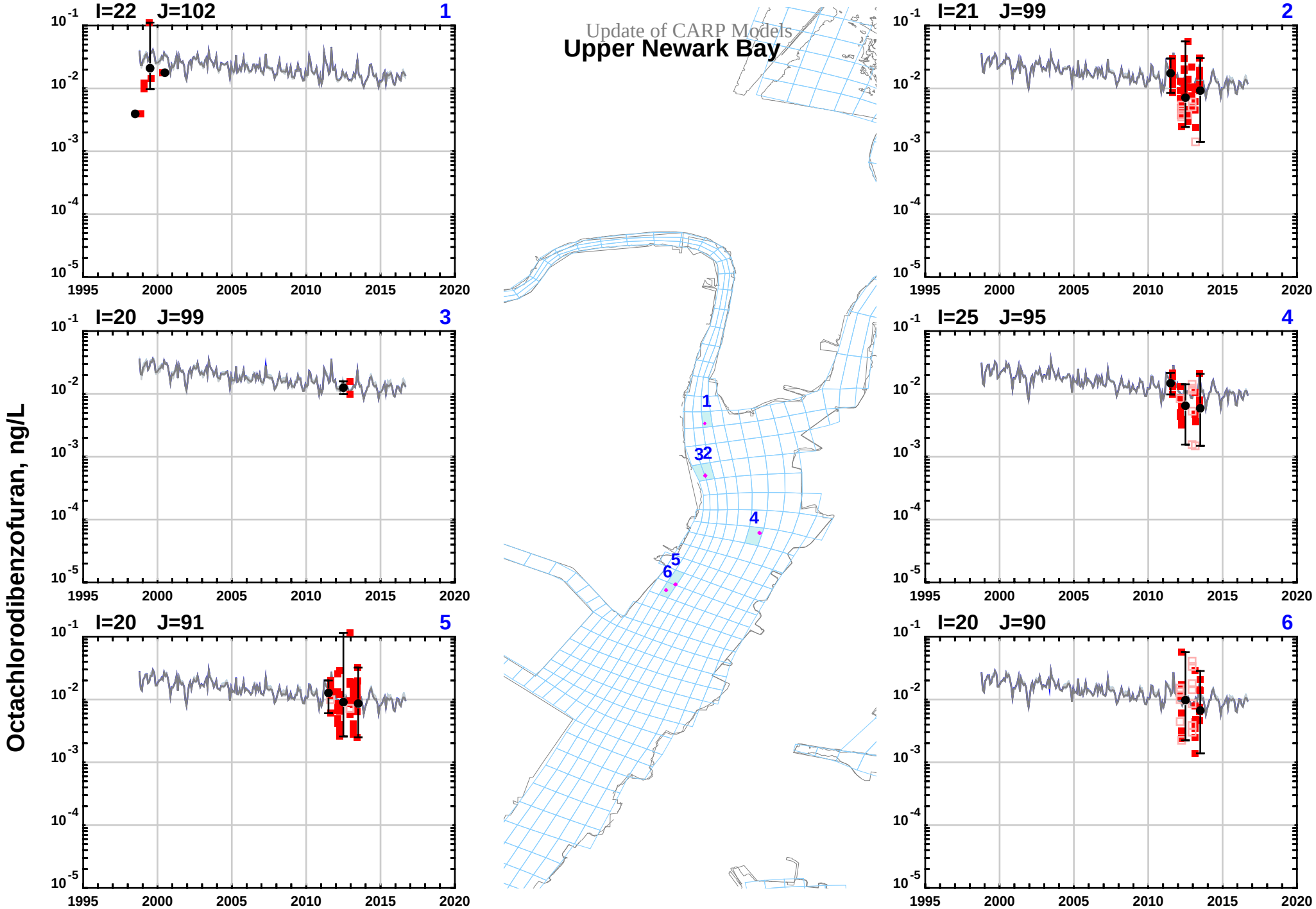
Model: mean and range of values in Water Column

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_S5_R2



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

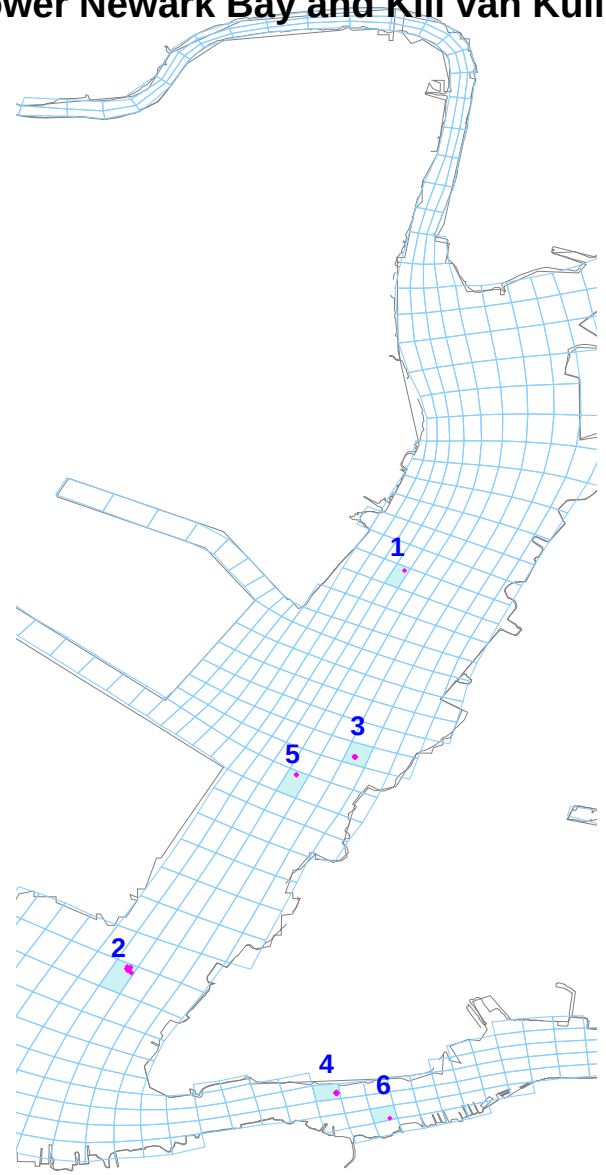
● Water Column Data: yearly mean and range

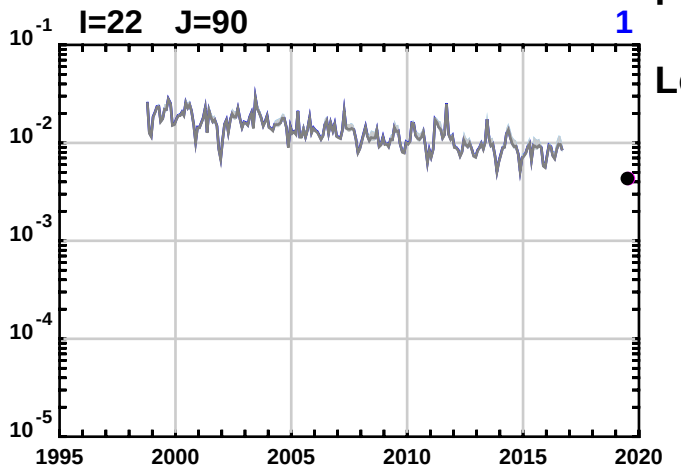
● CARP2 Data

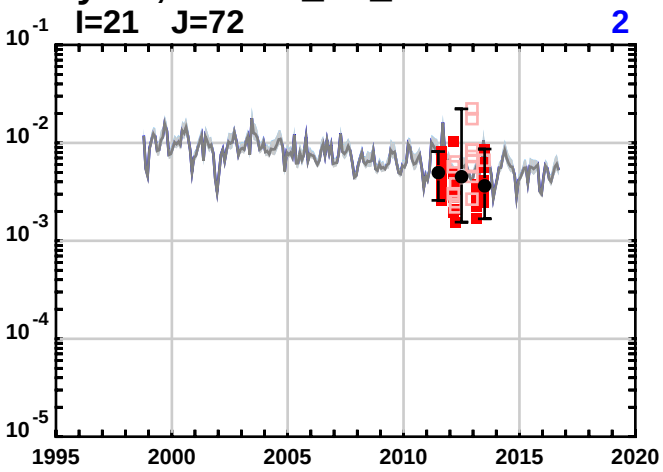
Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2

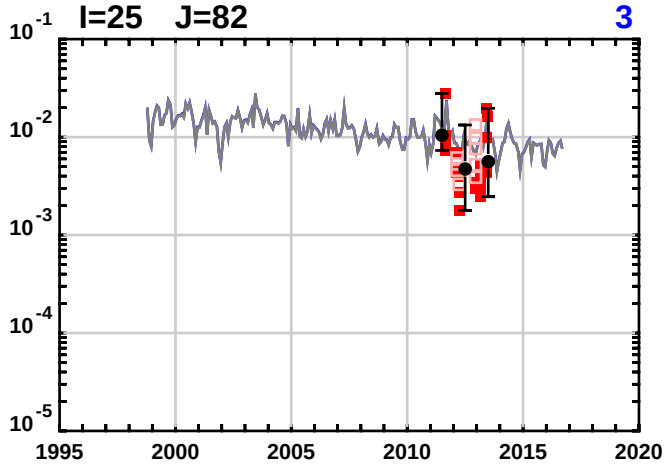
Update of CARP Models

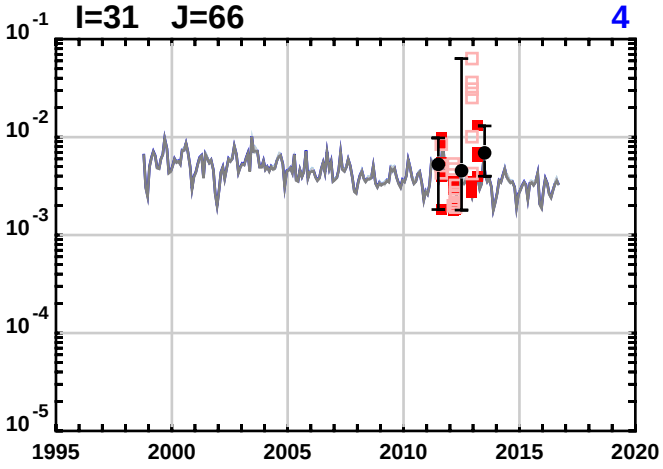
Lower Newark Bay and Kill van Kull

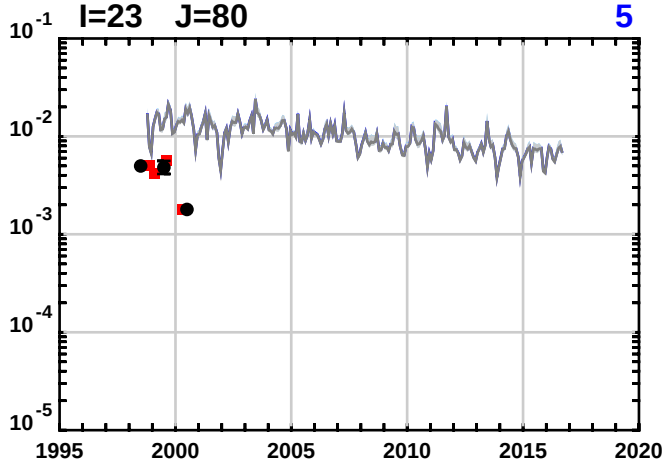


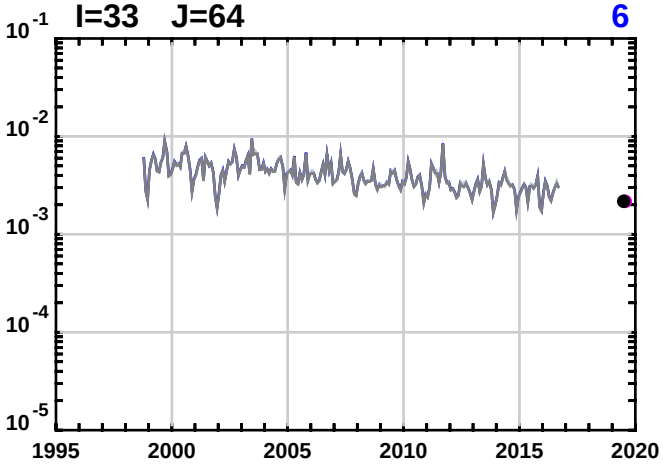












Octachlorodibenzofuran, ng/L

Detect Data Non-Detect Data

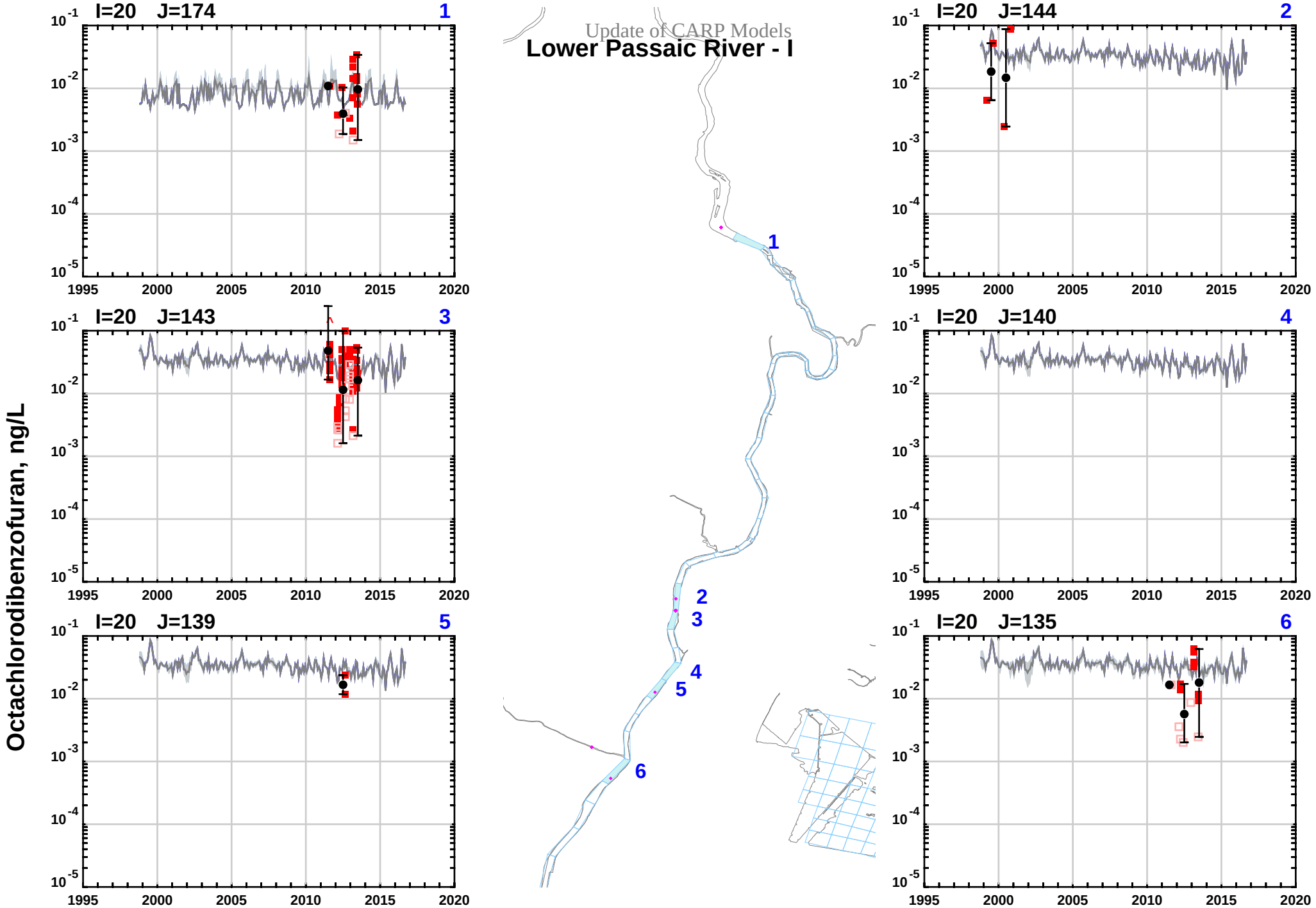
Model: mean and range of values in Water Column

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_S5_R2



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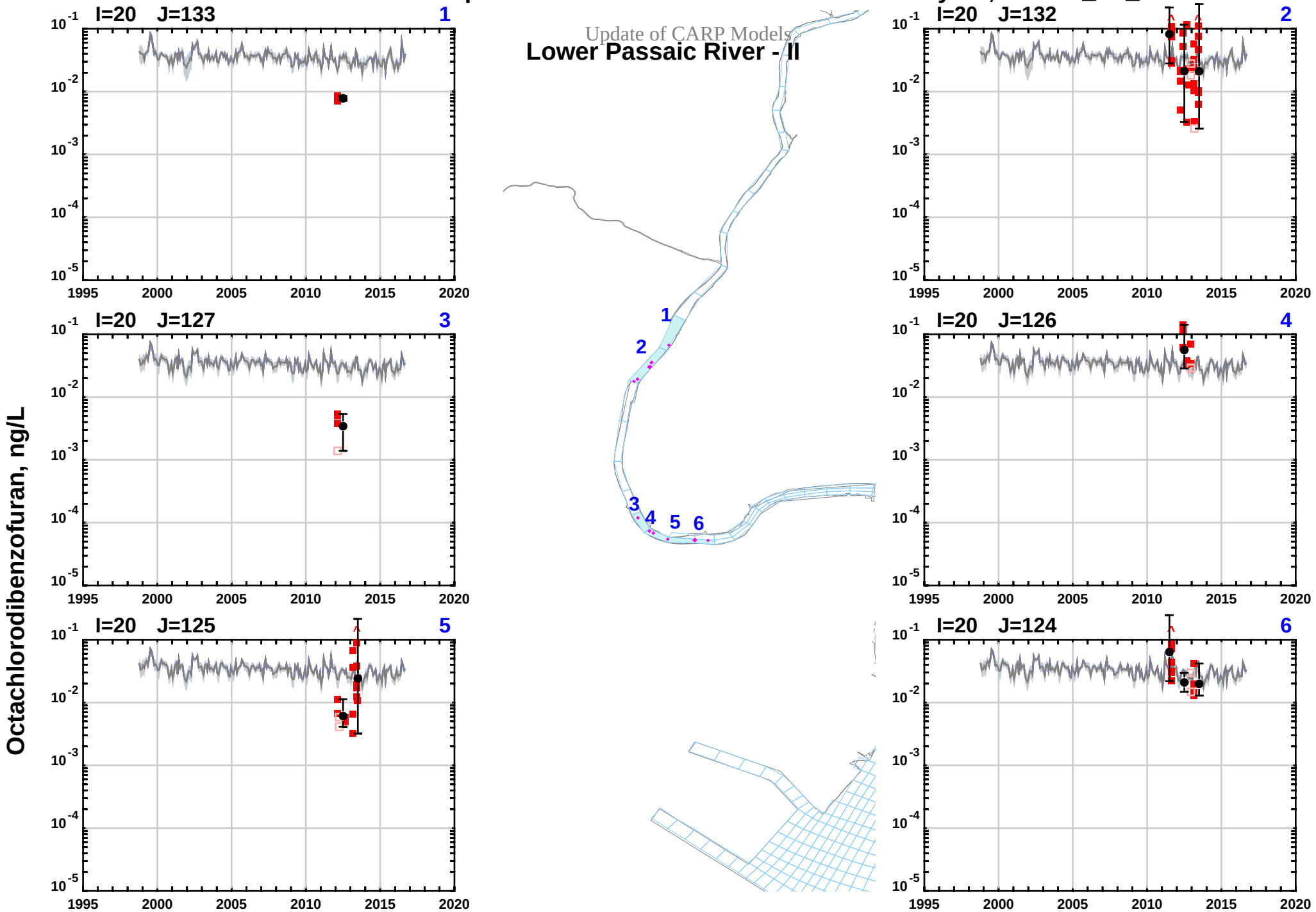
Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2



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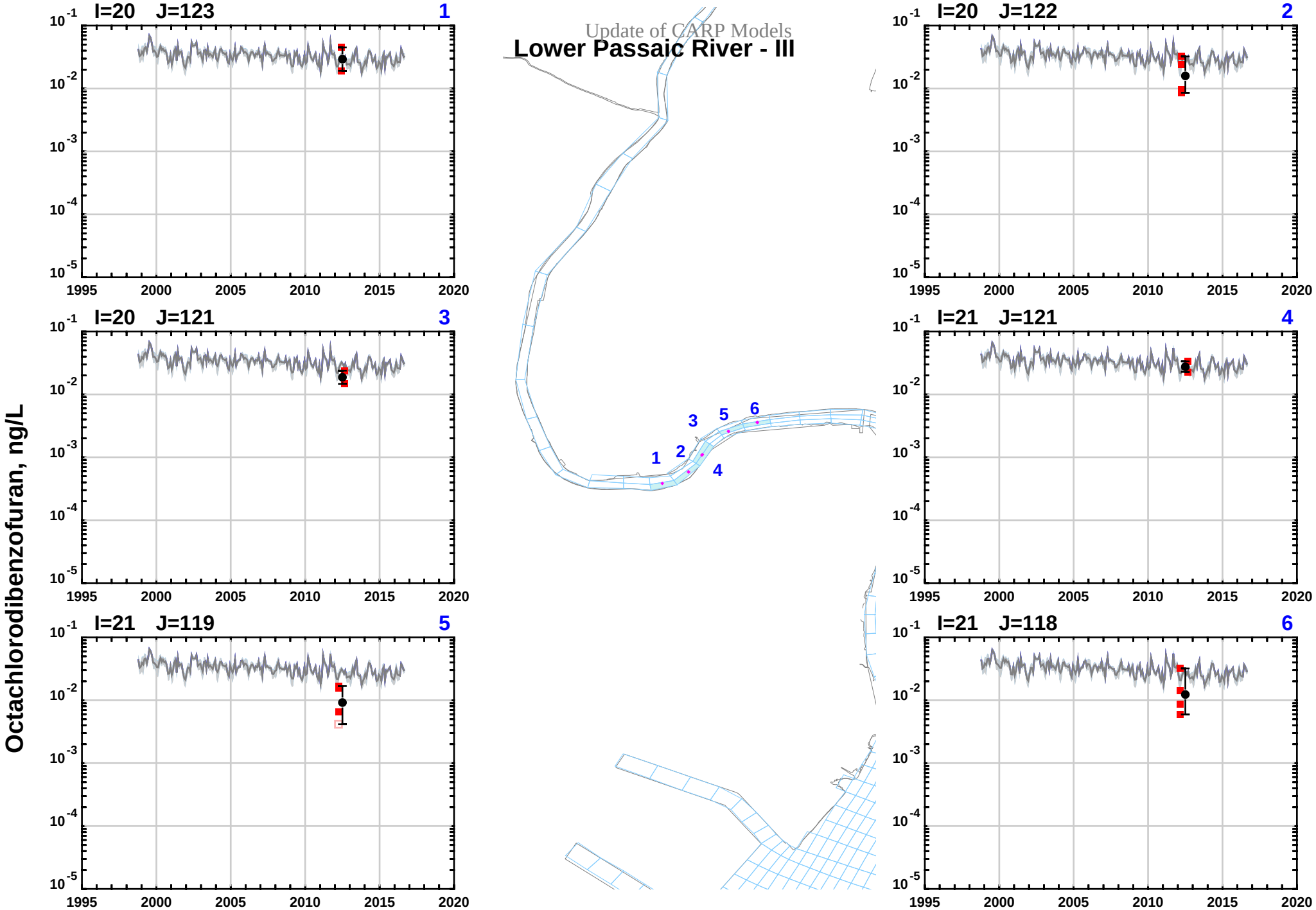
CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2



Detect Data Non-Detect Data

Model: mean and range of values in Water Column

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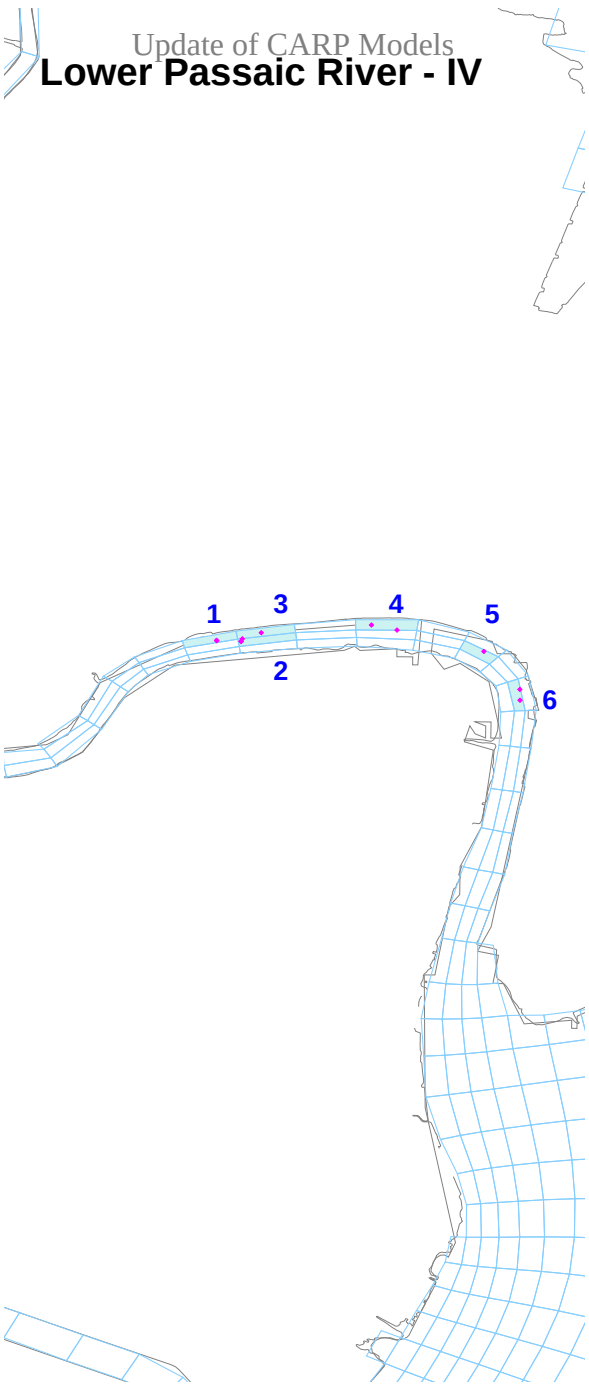
● Water Column Data: yearly mean and range

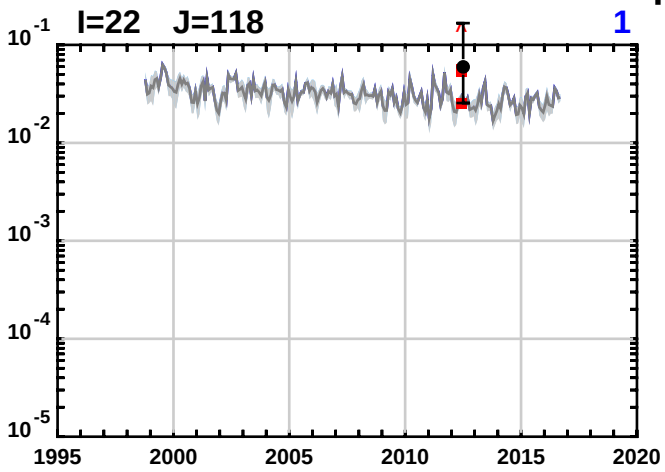
● CARP2 Data

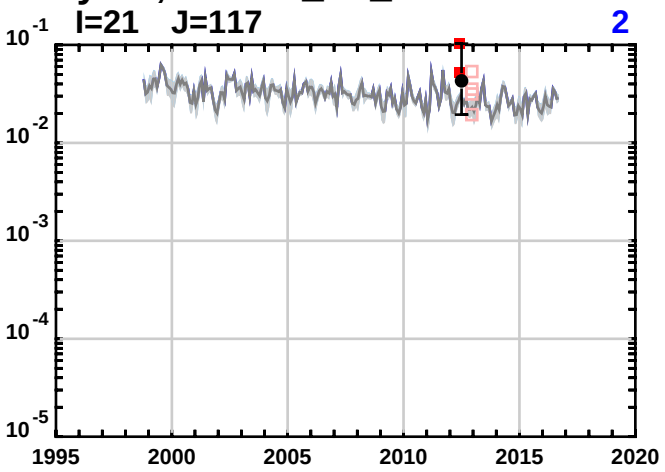
Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2

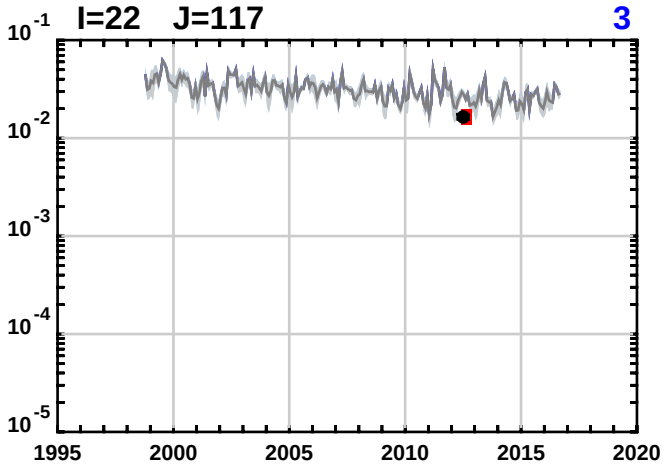
Update of CARP Models

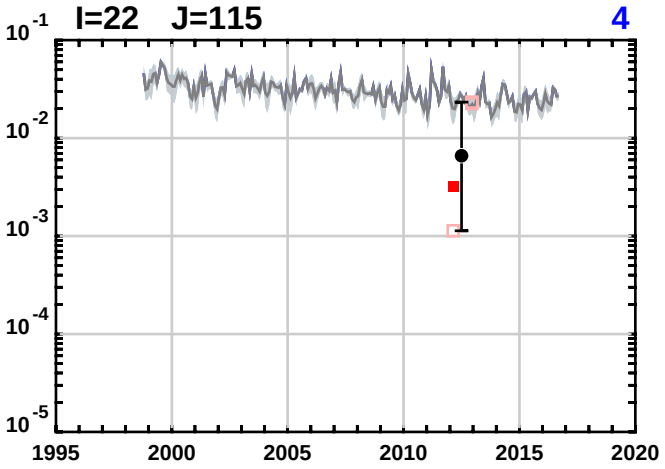
Lower Passaic River - IV

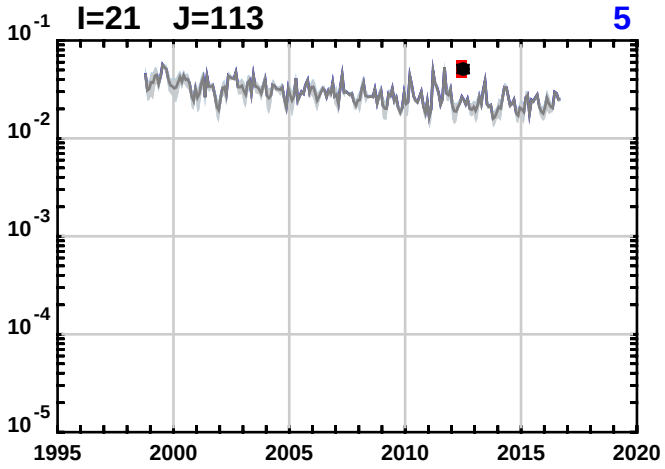


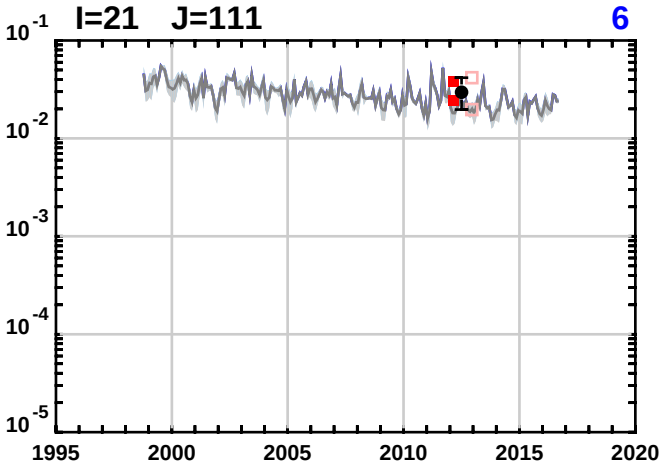












Octachlorodibenzofuran, ng/L

Detect Data Non-Detect Data

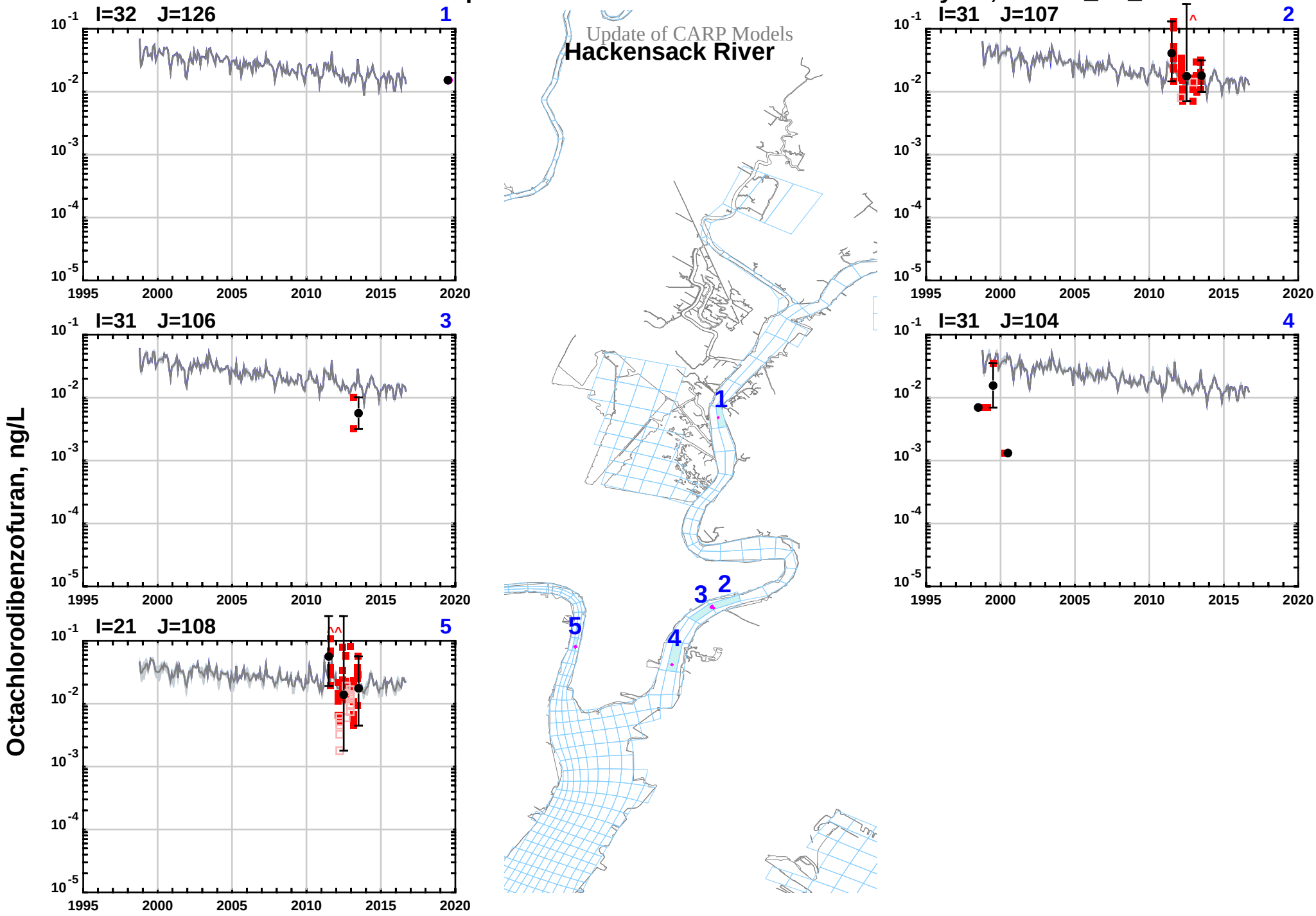
Model: mean and range of values in Water Column

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_S5_R2



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

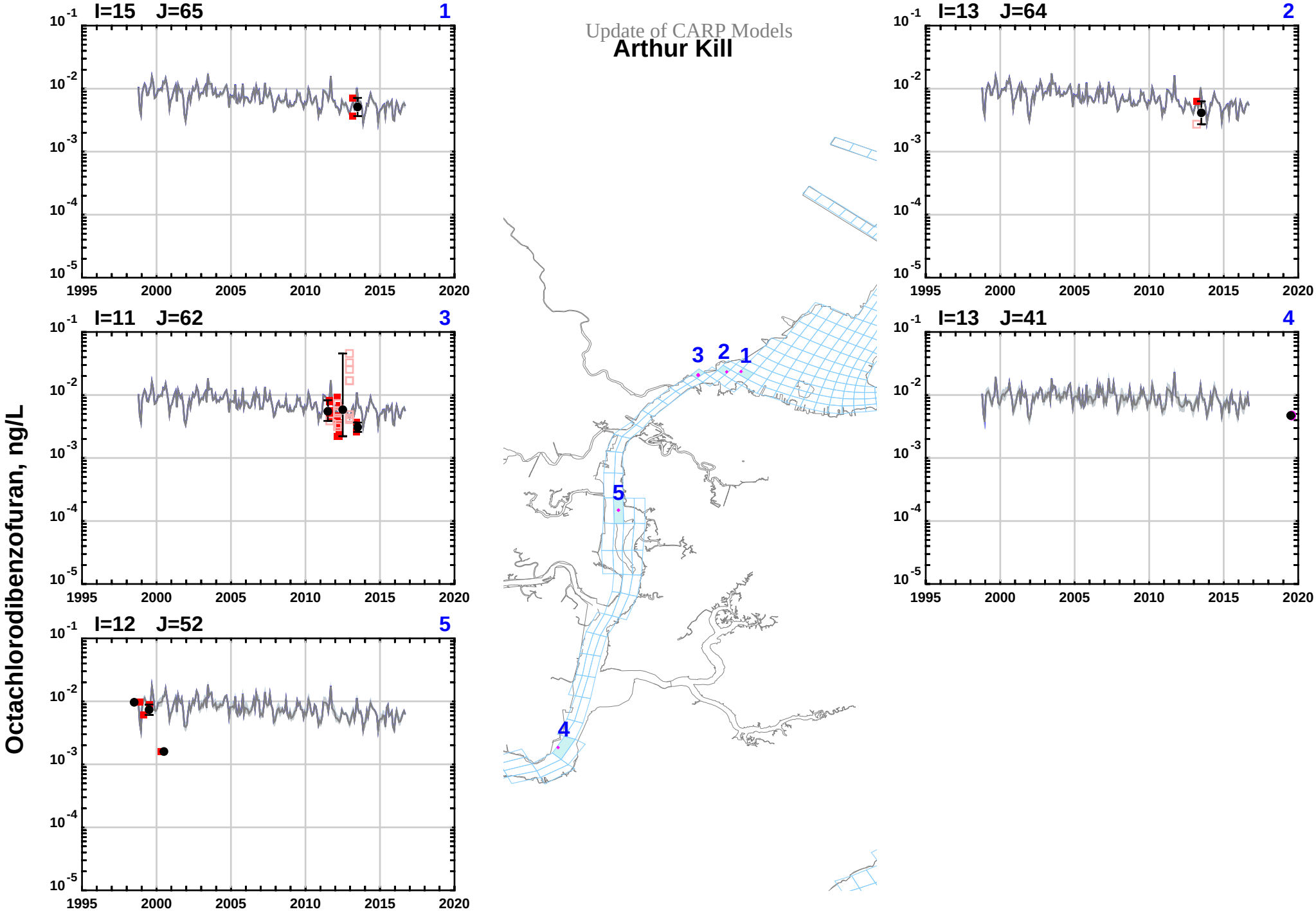
Water Column Data: yearly mean and range

CARP2 Data

Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2

Update of CARP Models

Arthur Kill



Detect Data Non-Detect Data

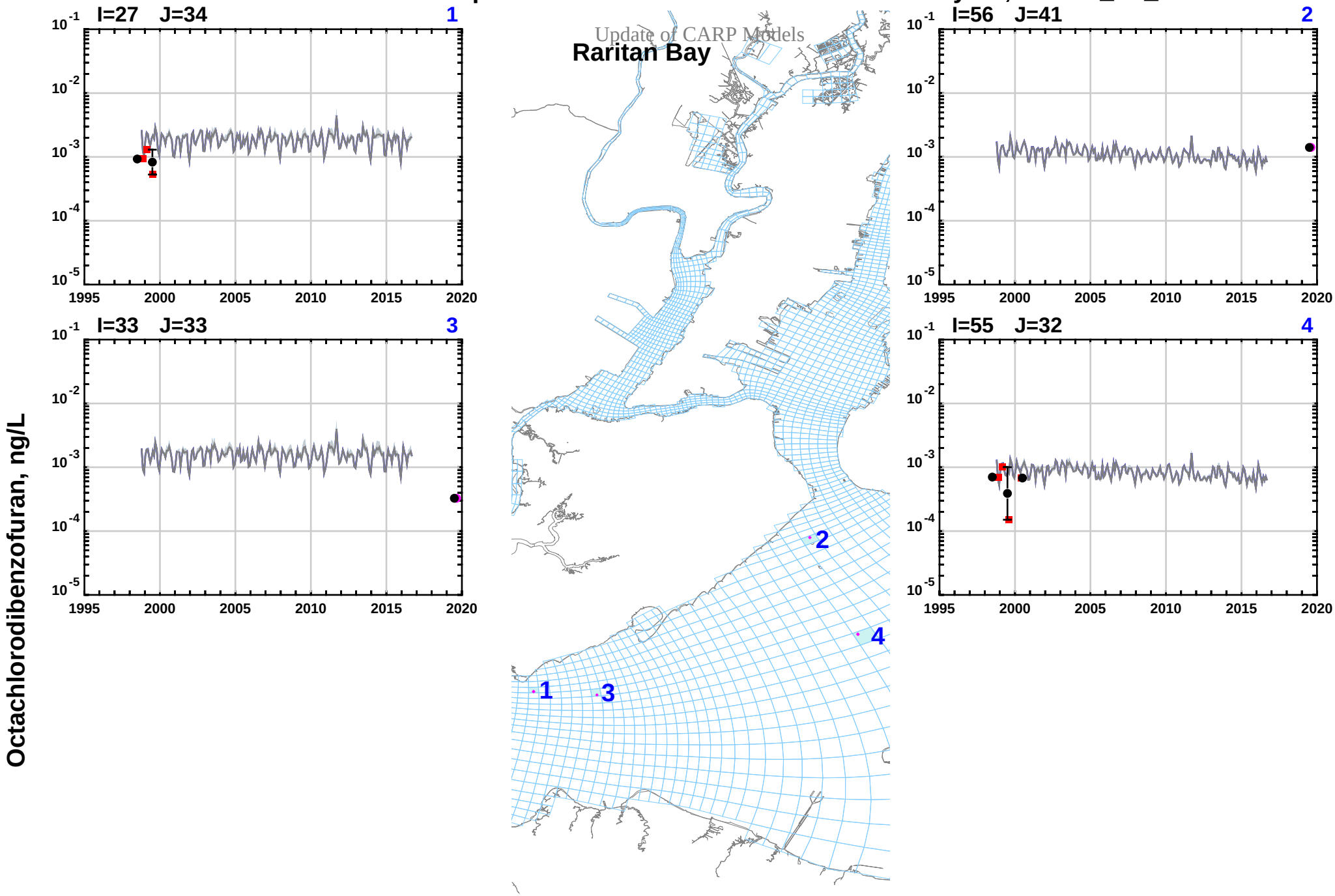
Model: mean and range of values in Water Column

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_S5_R2



Detect Data Non-Detect Data

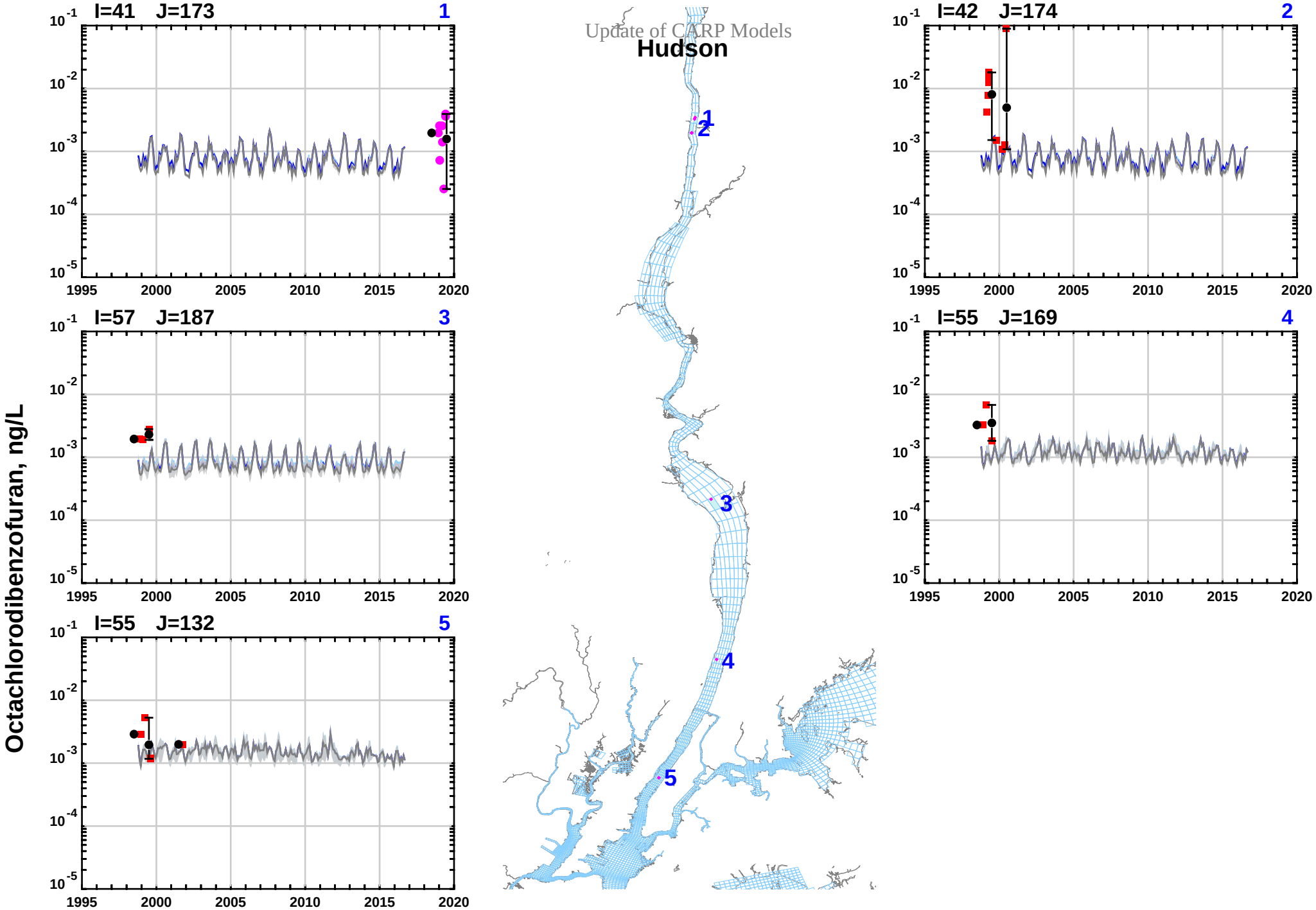
Model: mean and range of values in Water Column

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_S5_R2



Detect Data Non-Detect Data

Model: mean and range of values in Water Column

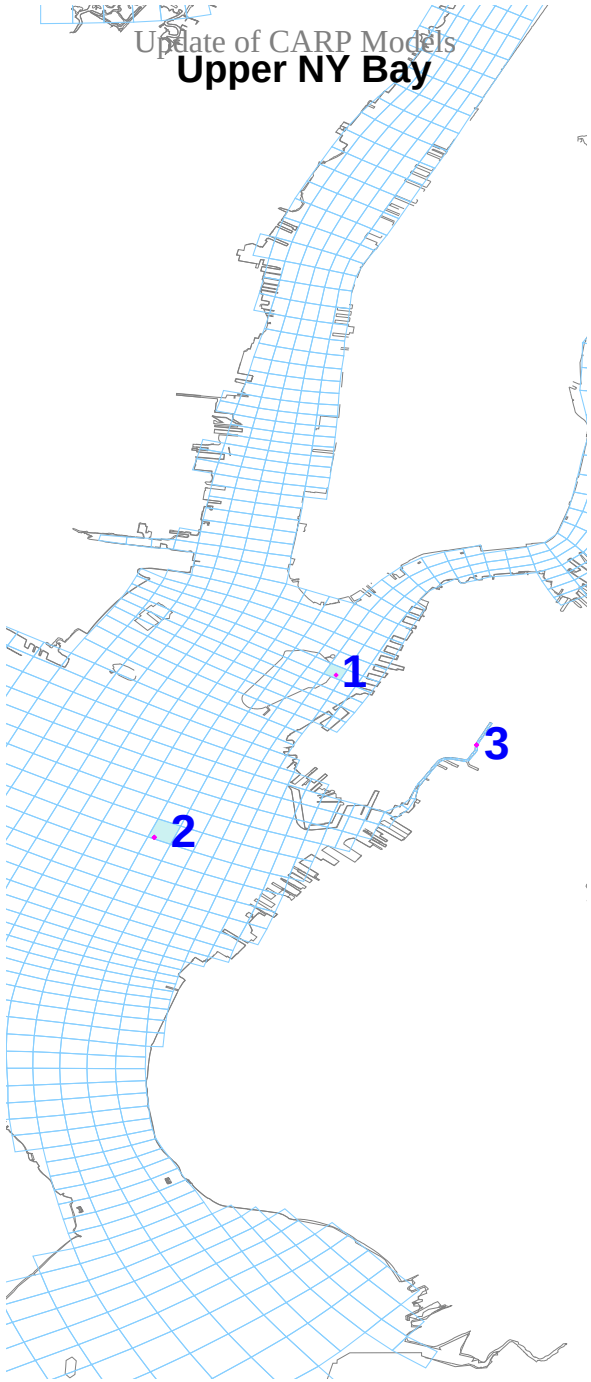
Model: Particulate Phase mean and range of values in Water Column

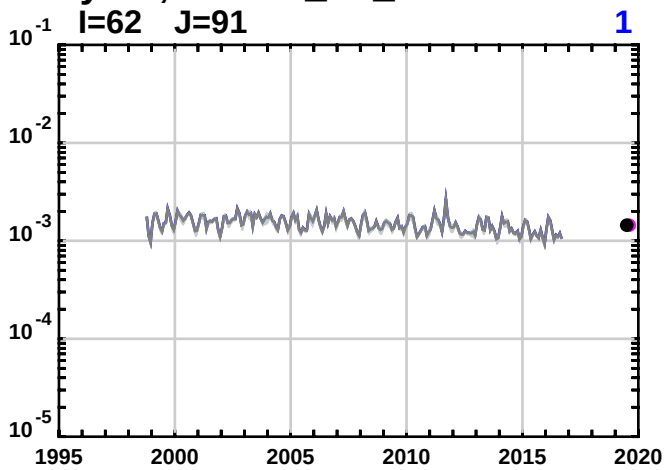
● Water Column Data: yearly mean and range

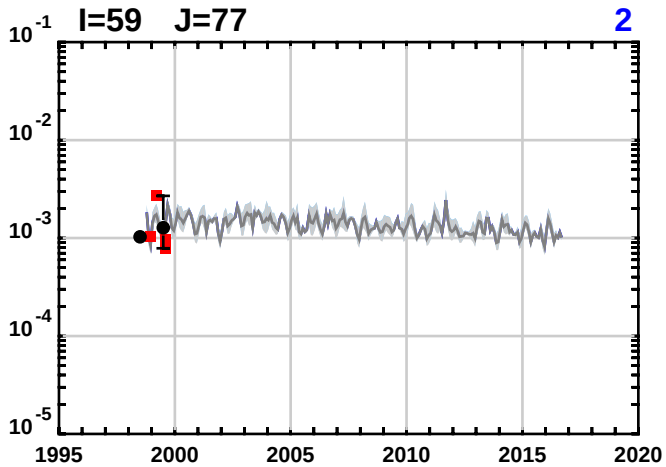
● CARP2 Data

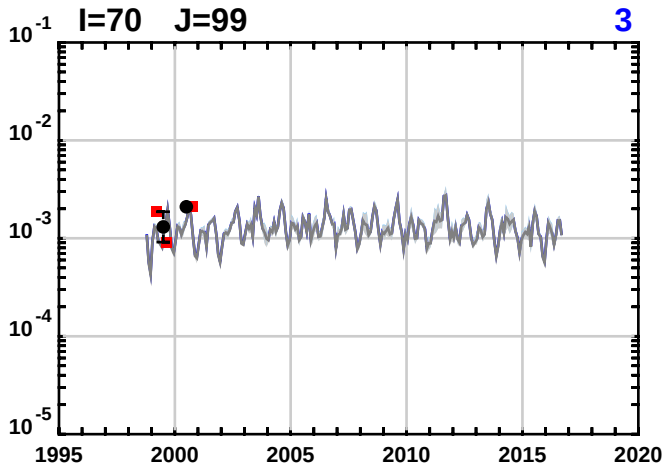
Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2

Octachlorodibenzofuran, 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

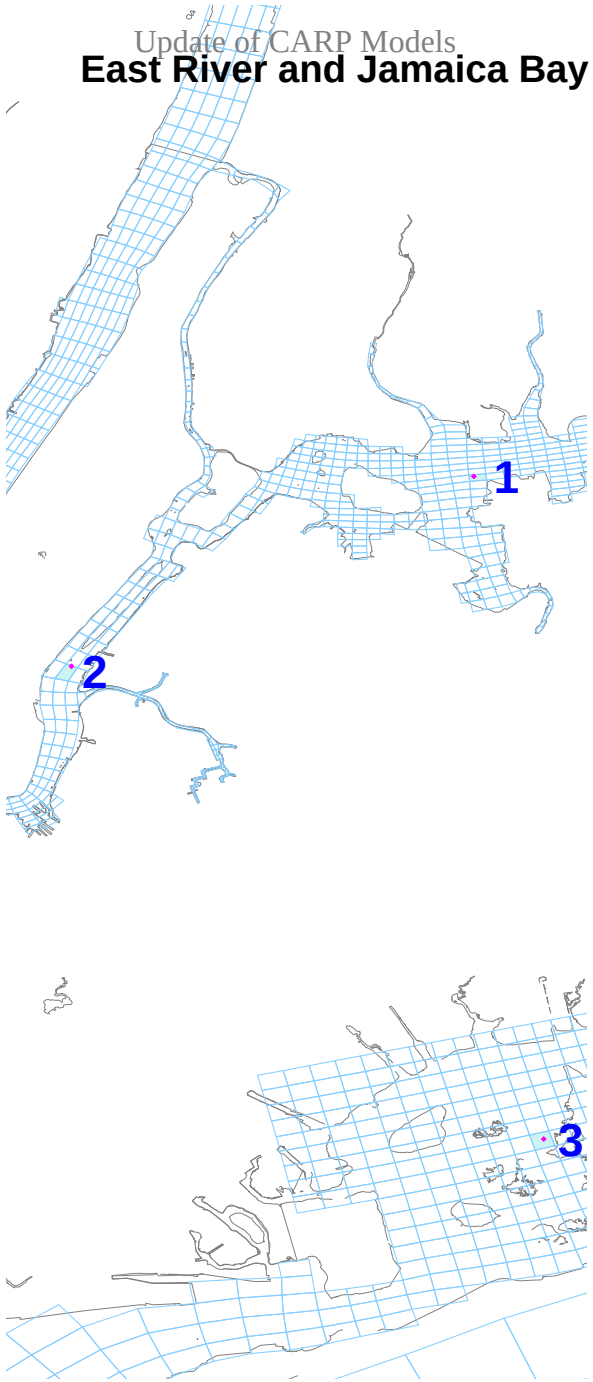
● Water Column Data: yearly mean and range

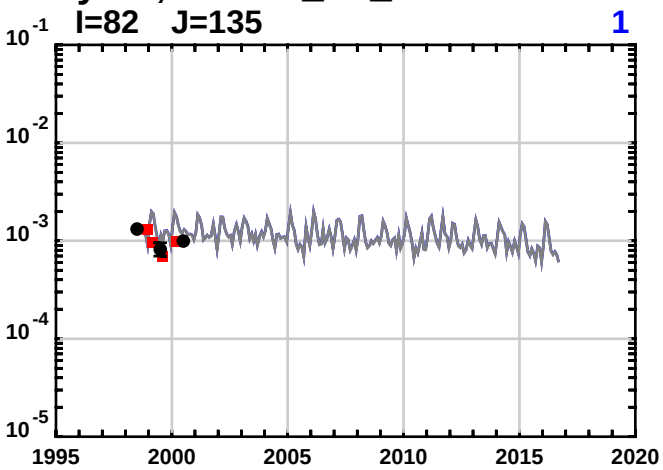
● CARP2 Data

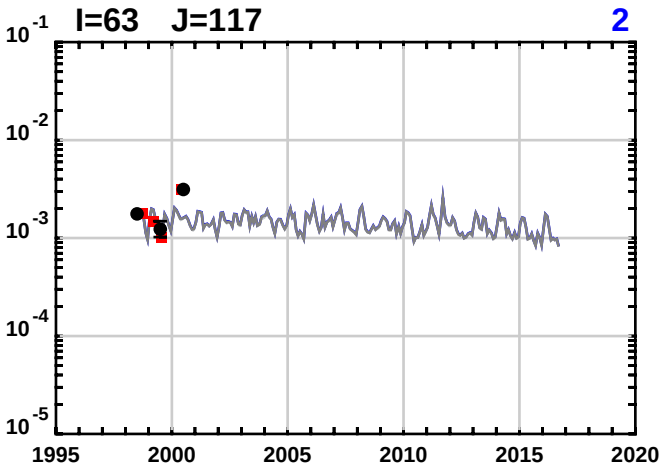
Water Column Data Comparison With Model All Water Column Layers, RUN18_S5_R2

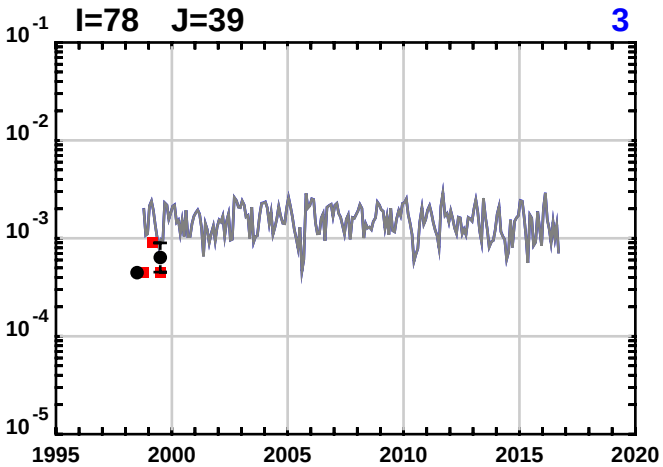
Update of CARP Models

East River and Jamaica Bay









Octachlorodibenzofuran, 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