

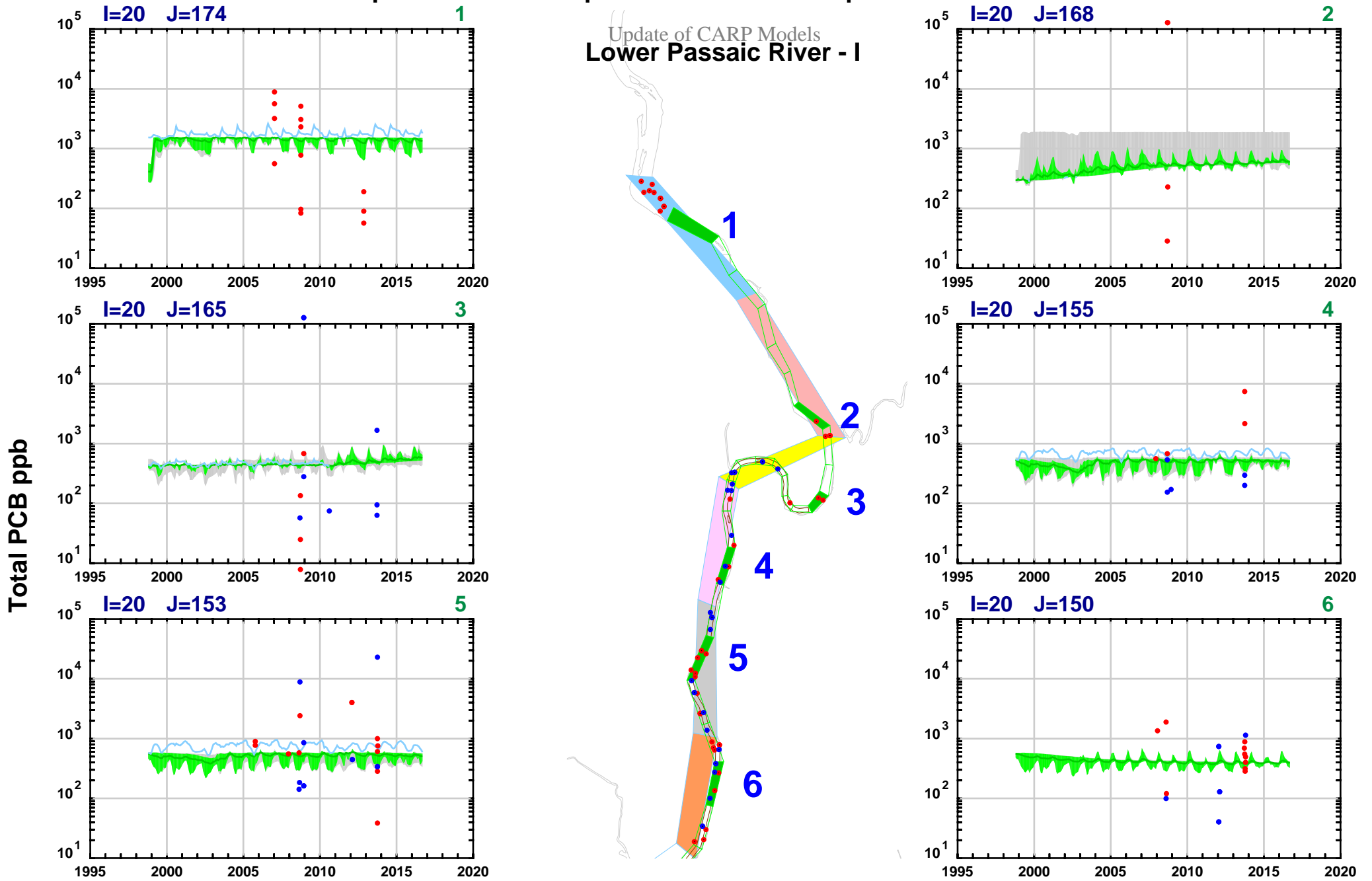
## **APPENDIX 16**

### **Contaminant Concentrations in the Sediment Bed Model and Measurement Comparisons Results Diagrams, Validation, Various Measurement Programs, Ninety-Five Locations throughout NY/NJ Harbor, 1998-2016 Water Years**

- **PCB summation (ten homologs), SS normalized**
- **PCB summation (ten homologs), OC normalized**
- **six PCB homologs, SS normalized**
- **six PCB homologs, OC normalized**
- **five dioxin congeners, SS normalized**
- **five dioxin congeners, OC normalized**
- **five dioxin and furan congeners, SS normalized**
- **five dioxin and furan congeners, OC normalized**
- **five furan congeners, SS normalized**
- **five furan congeners, OC normalized**

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Lower Passaic River - I



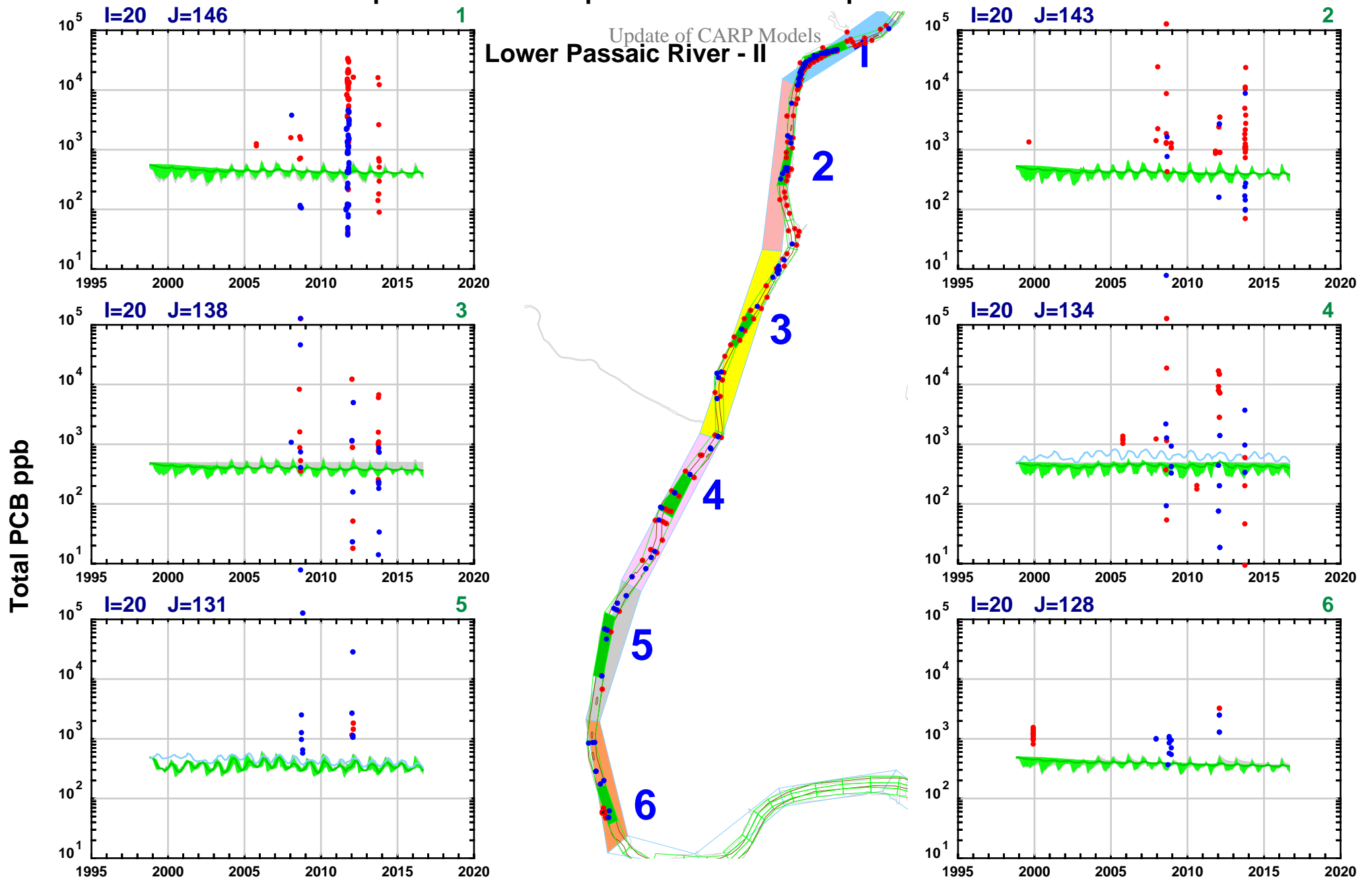
**RUN18**

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

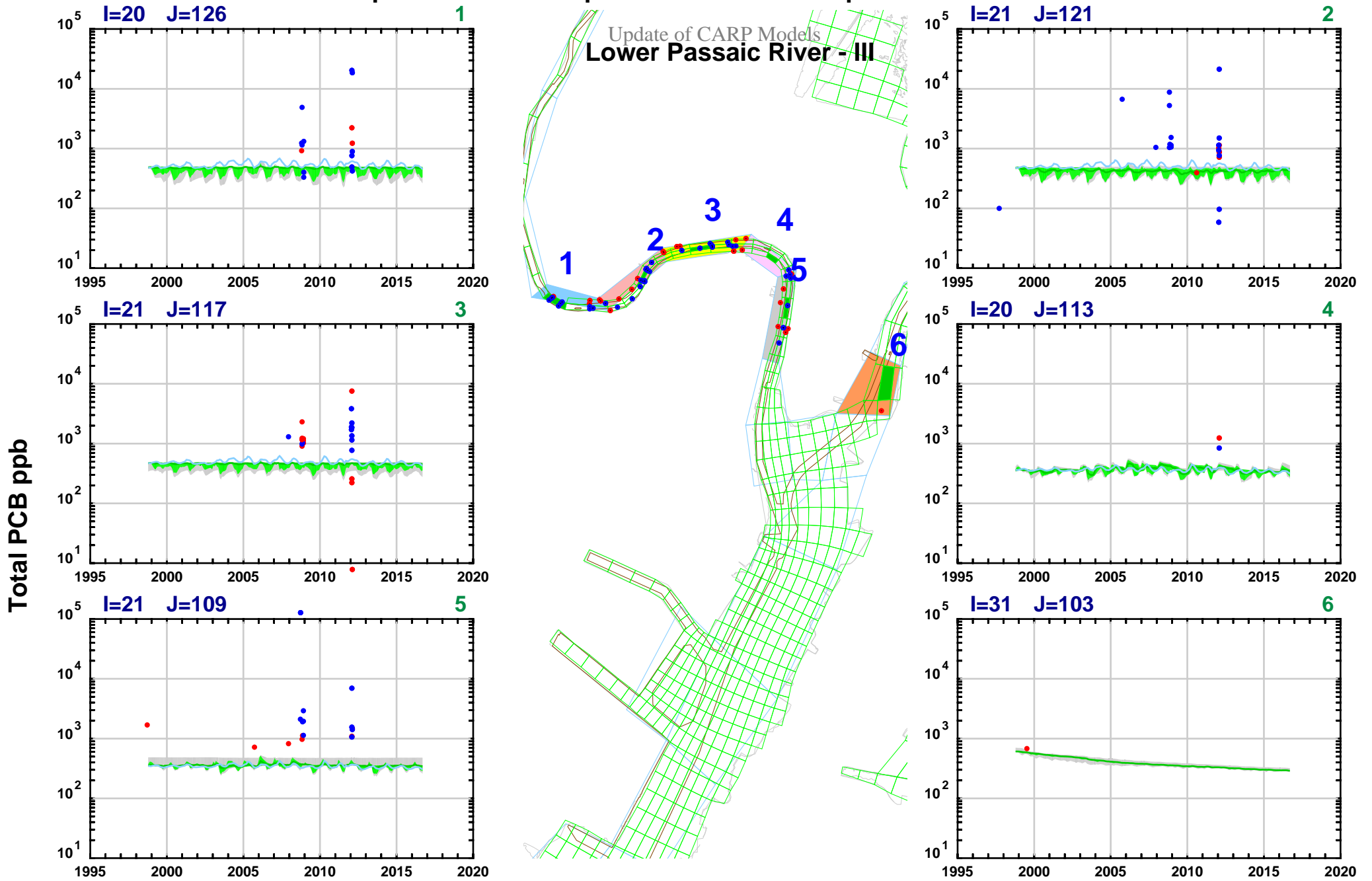


**RUN18**

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

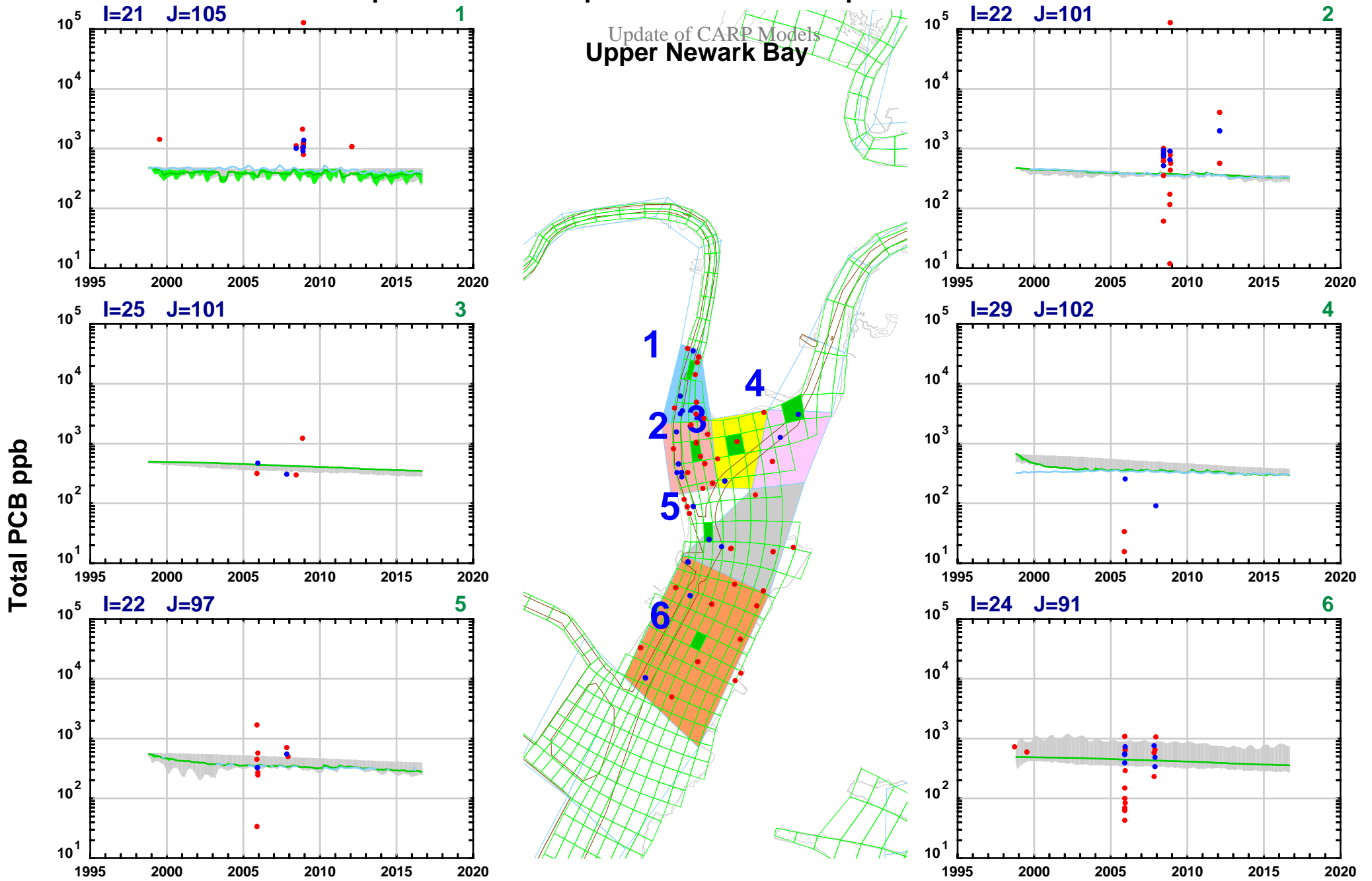


**RUN18**

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



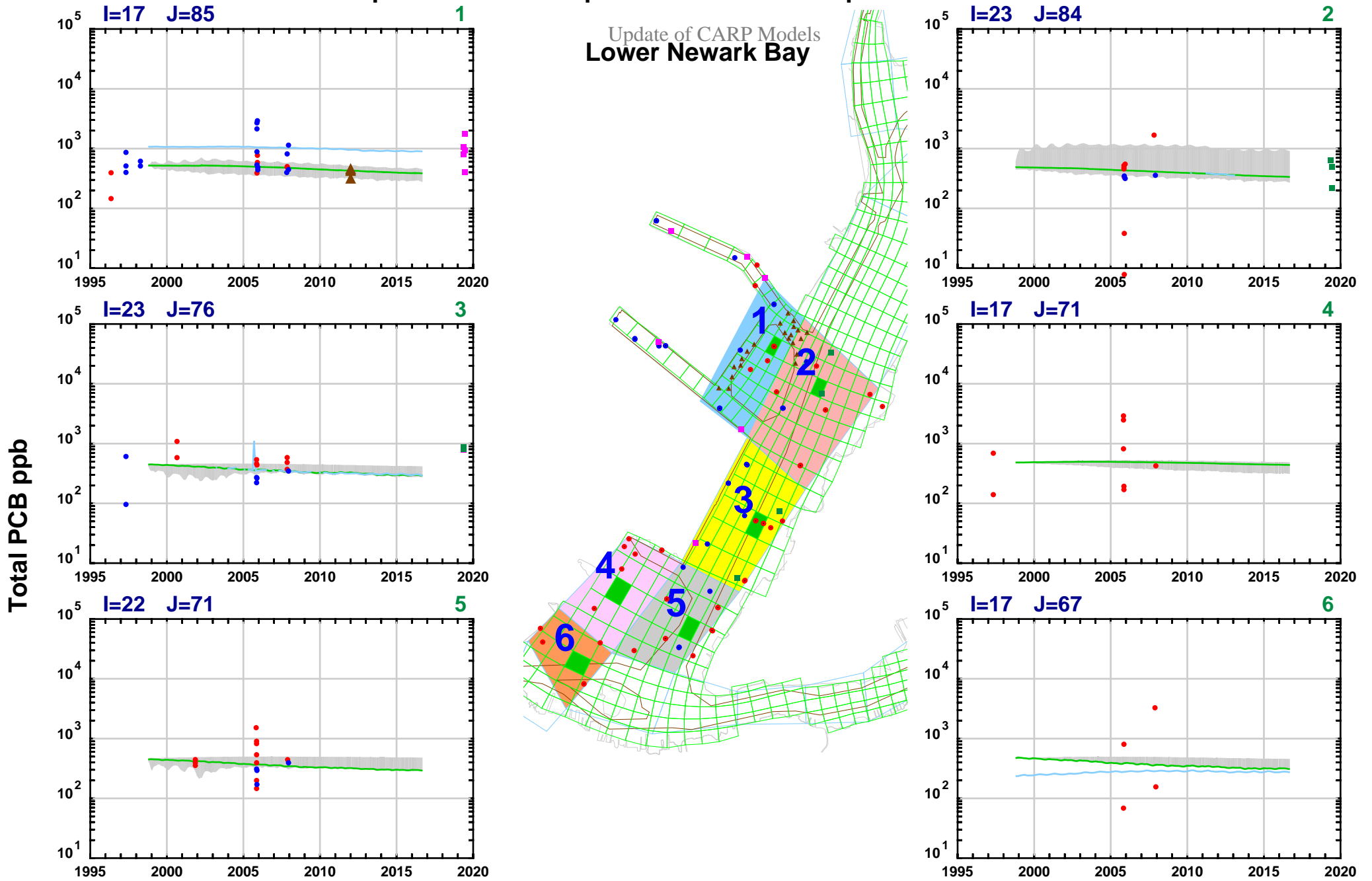
**RUN18**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Lower Newark Bay



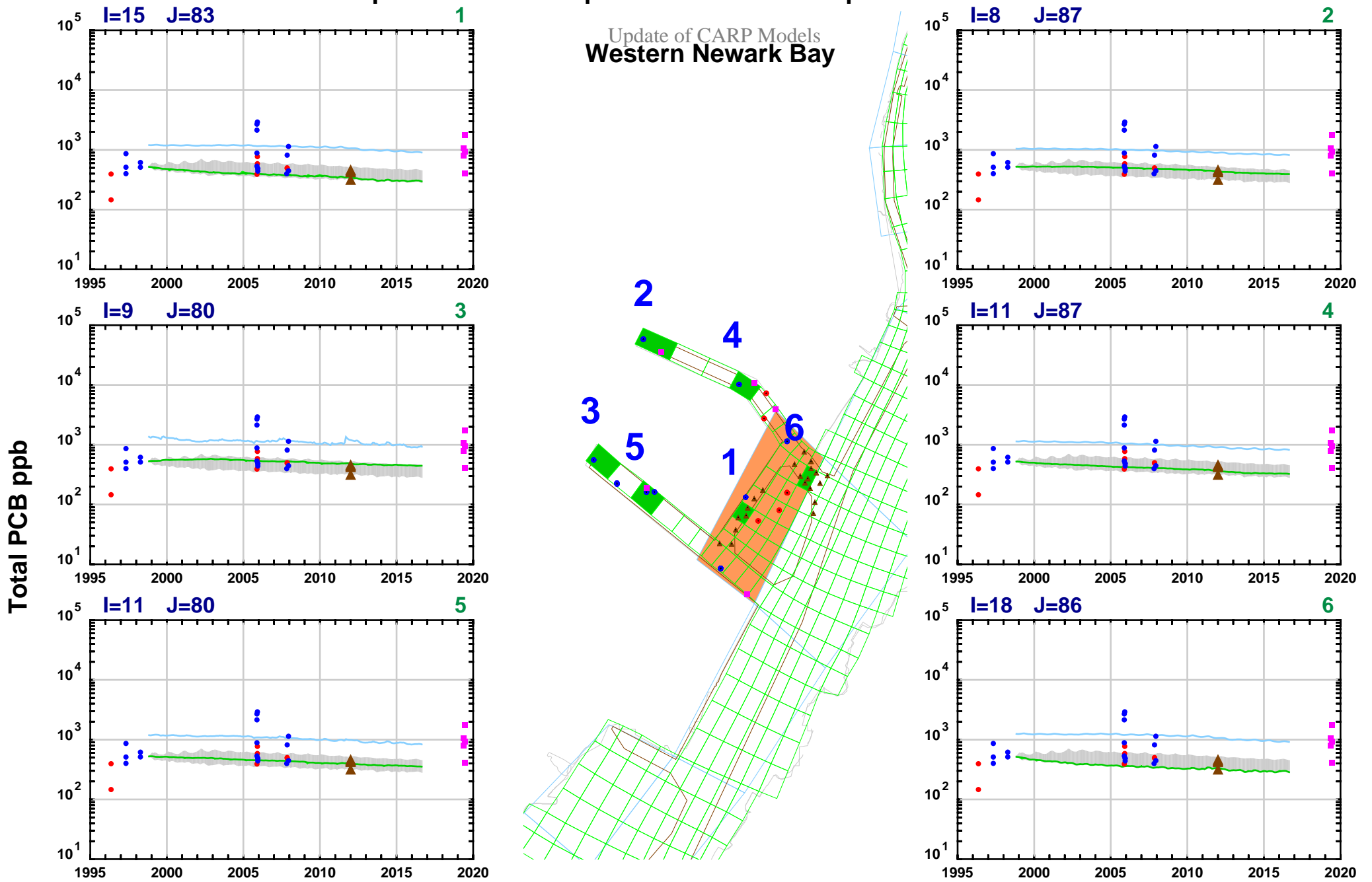
**RUN18**

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay



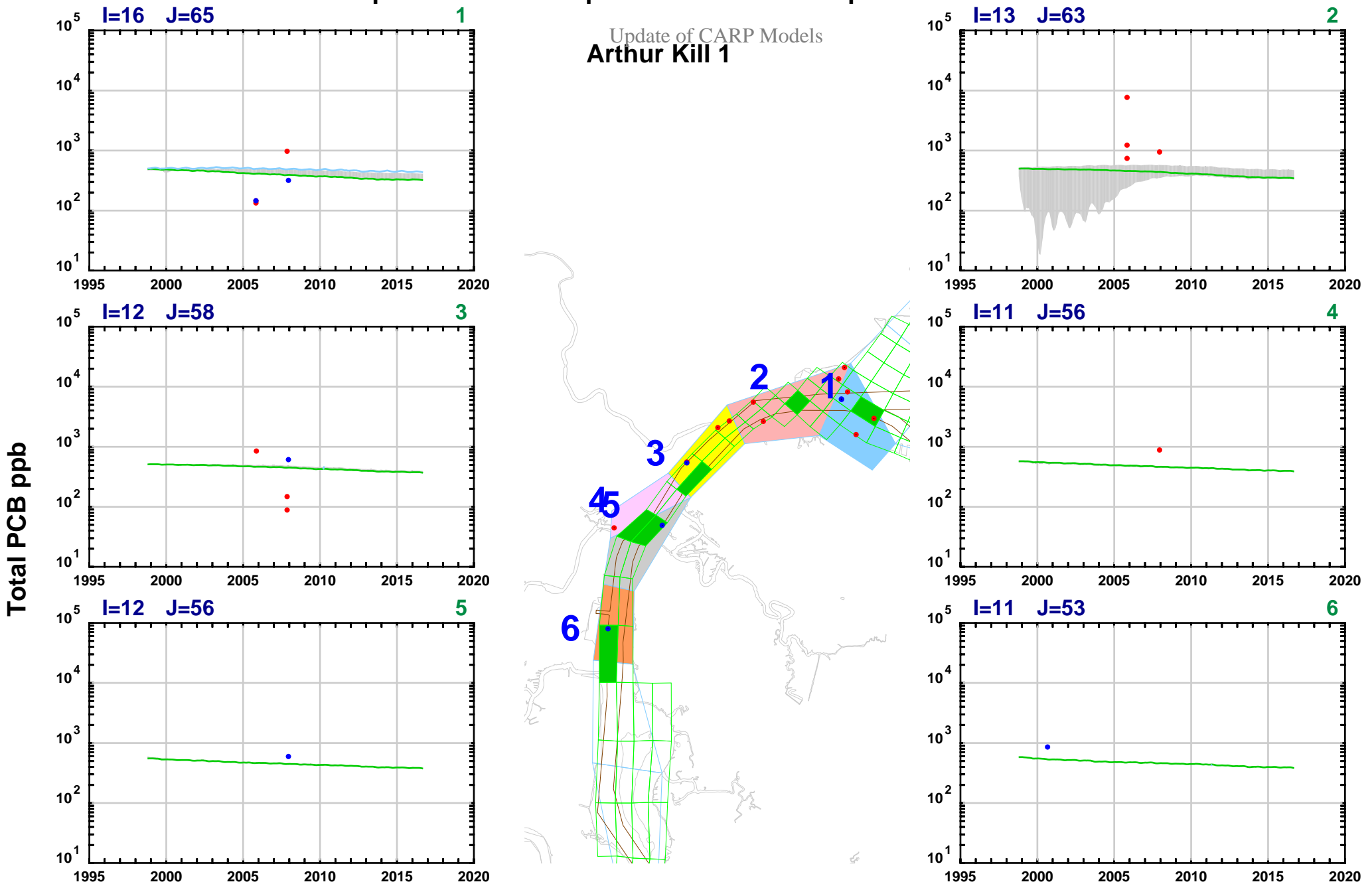
**RUN18**

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

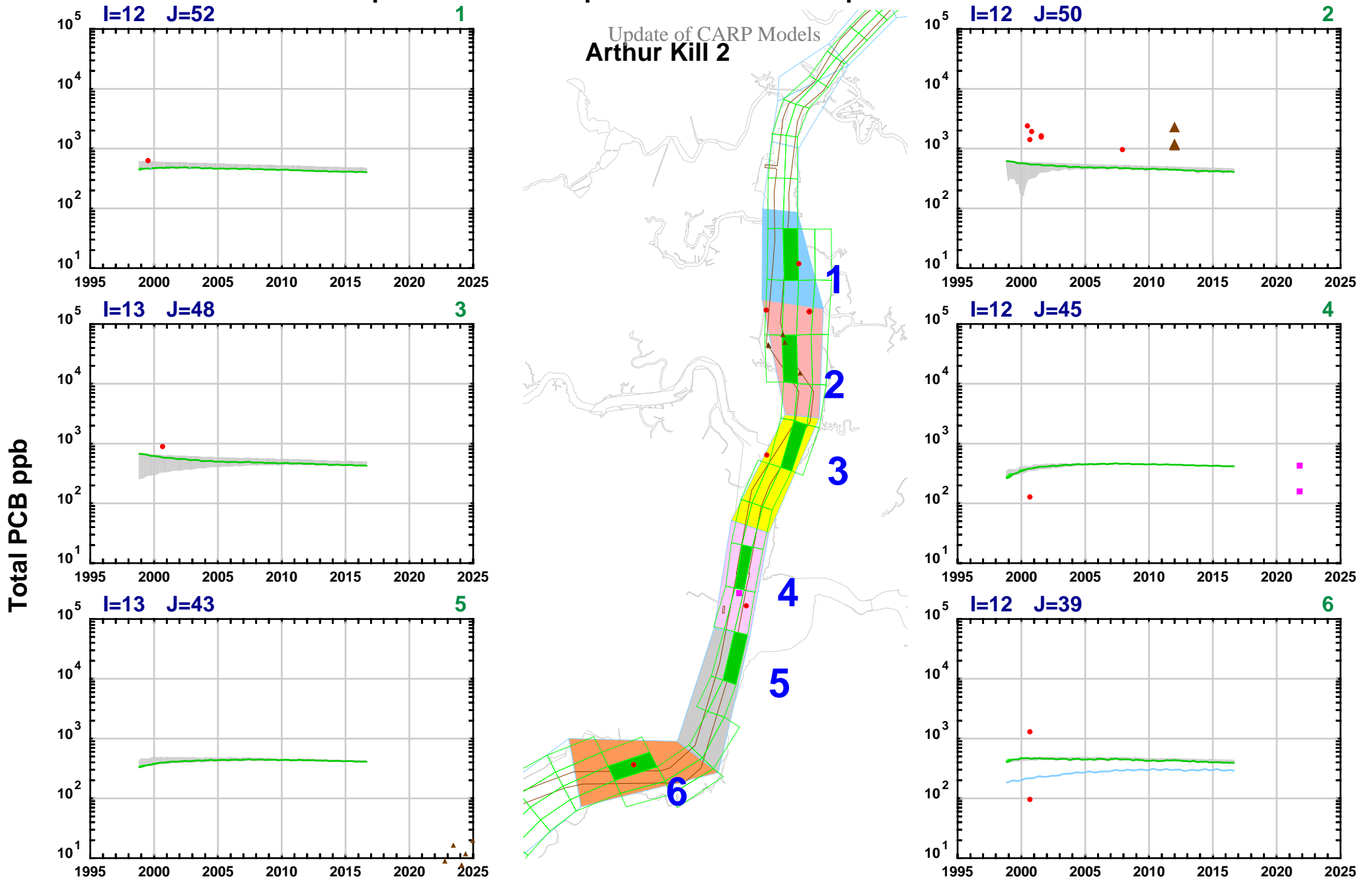


**RUN18**

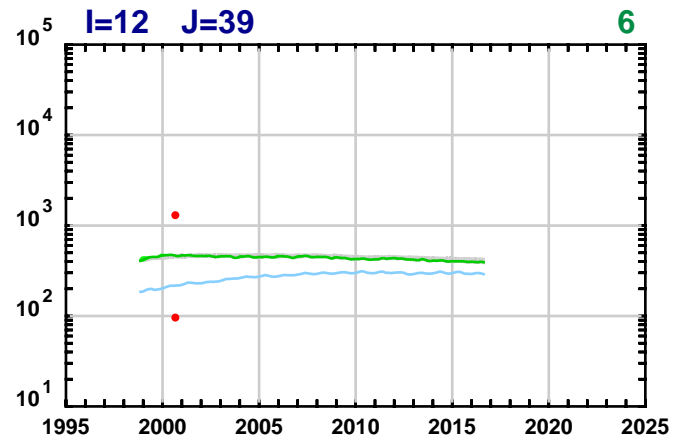
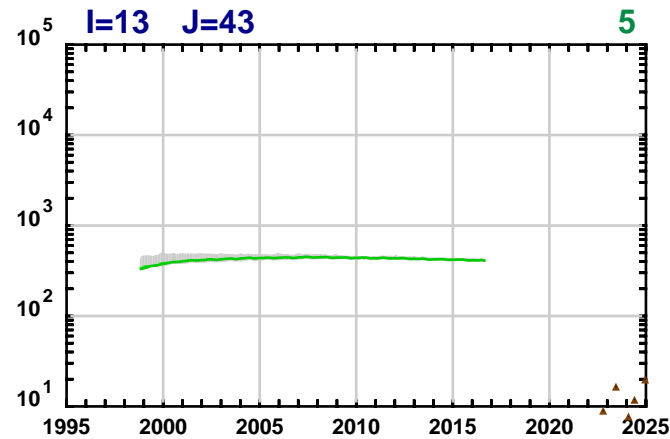
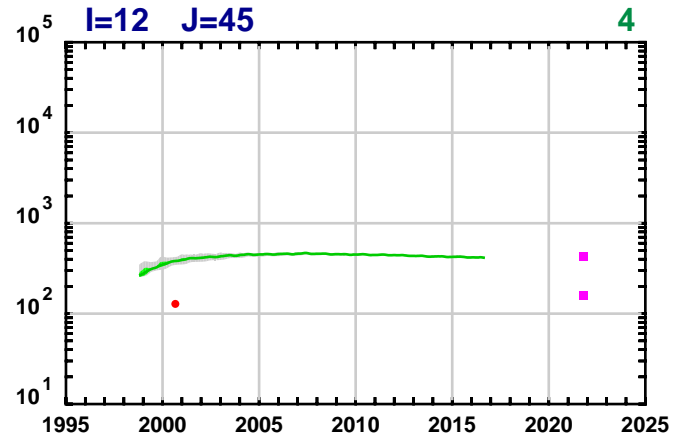
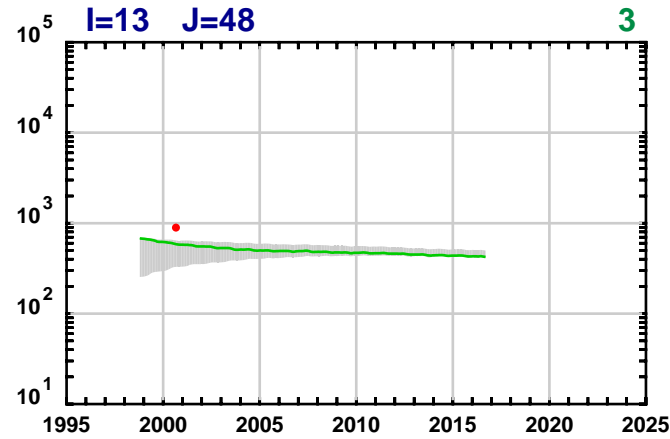
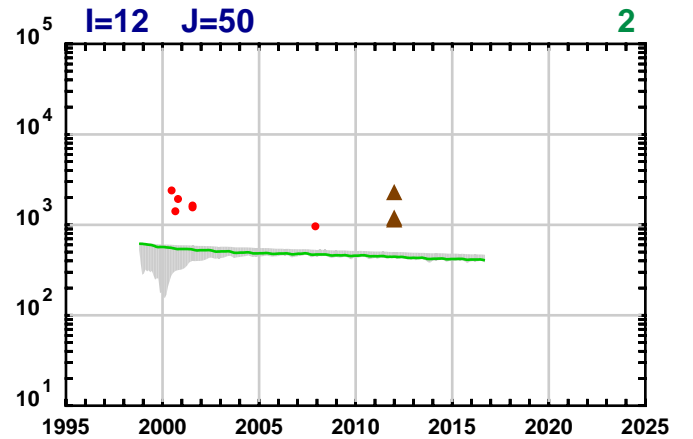
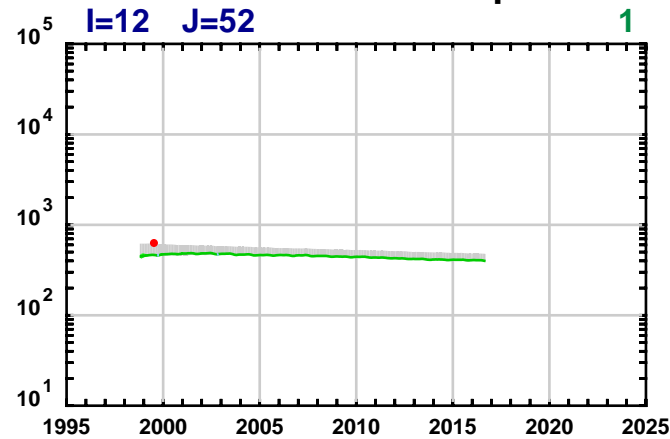
Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



Update of CARP Models  
Arthur Kill 2

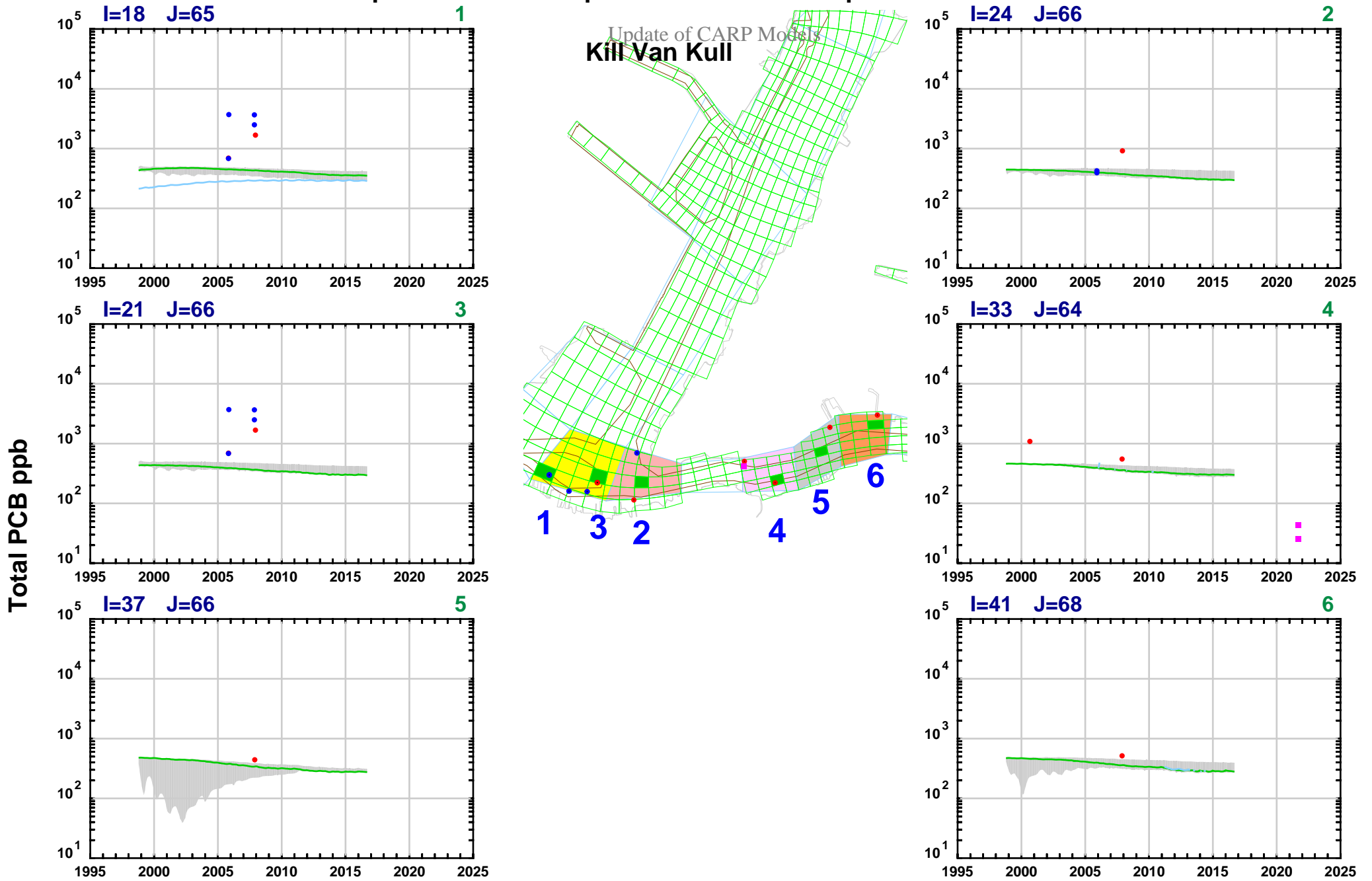


**RUN18**

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



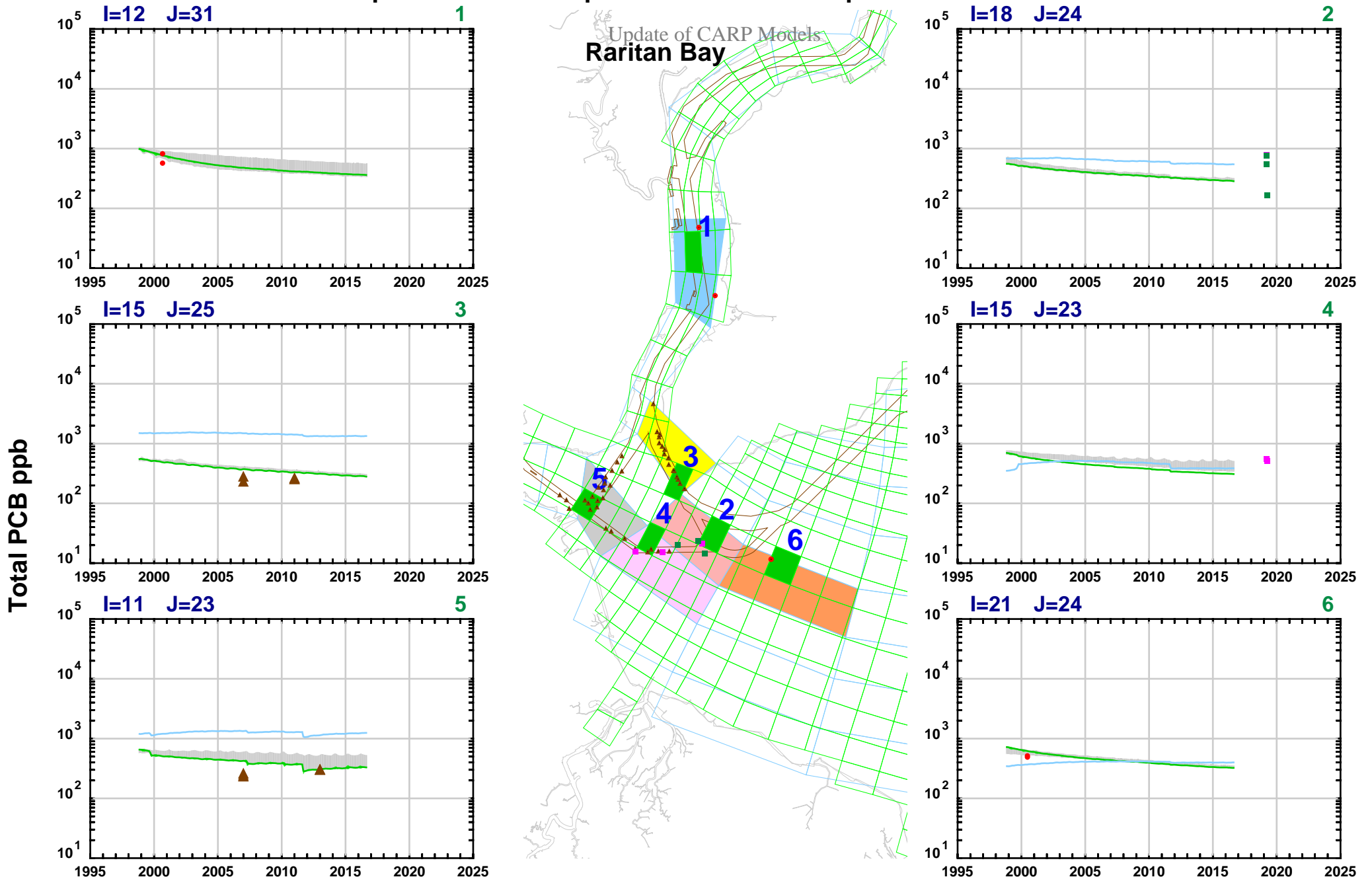
**RUN18**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

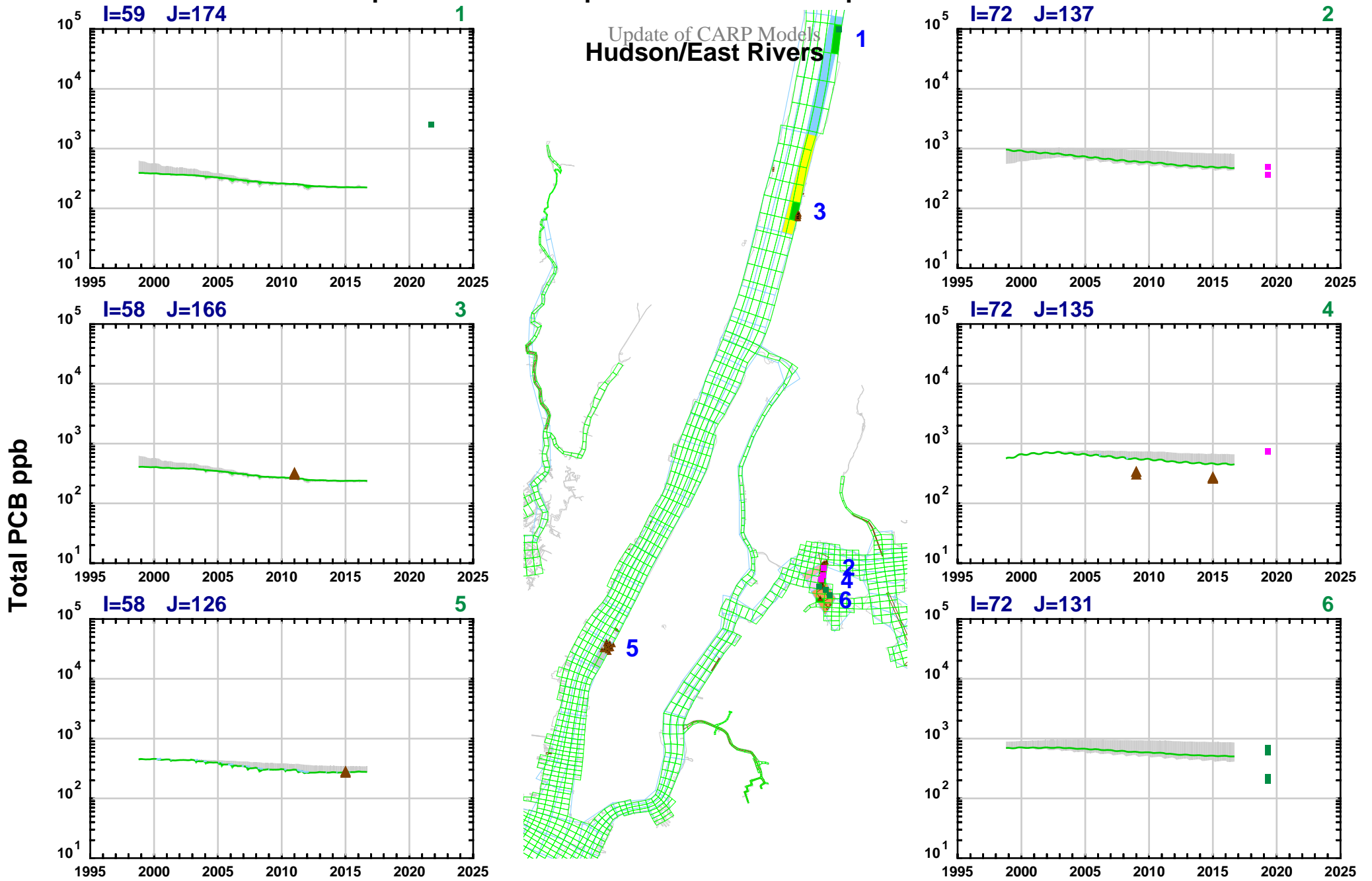


**RUN18**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data** **● Off-channel data** **▲ Dredge data**  
**■ CARP2 In-channel** **■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

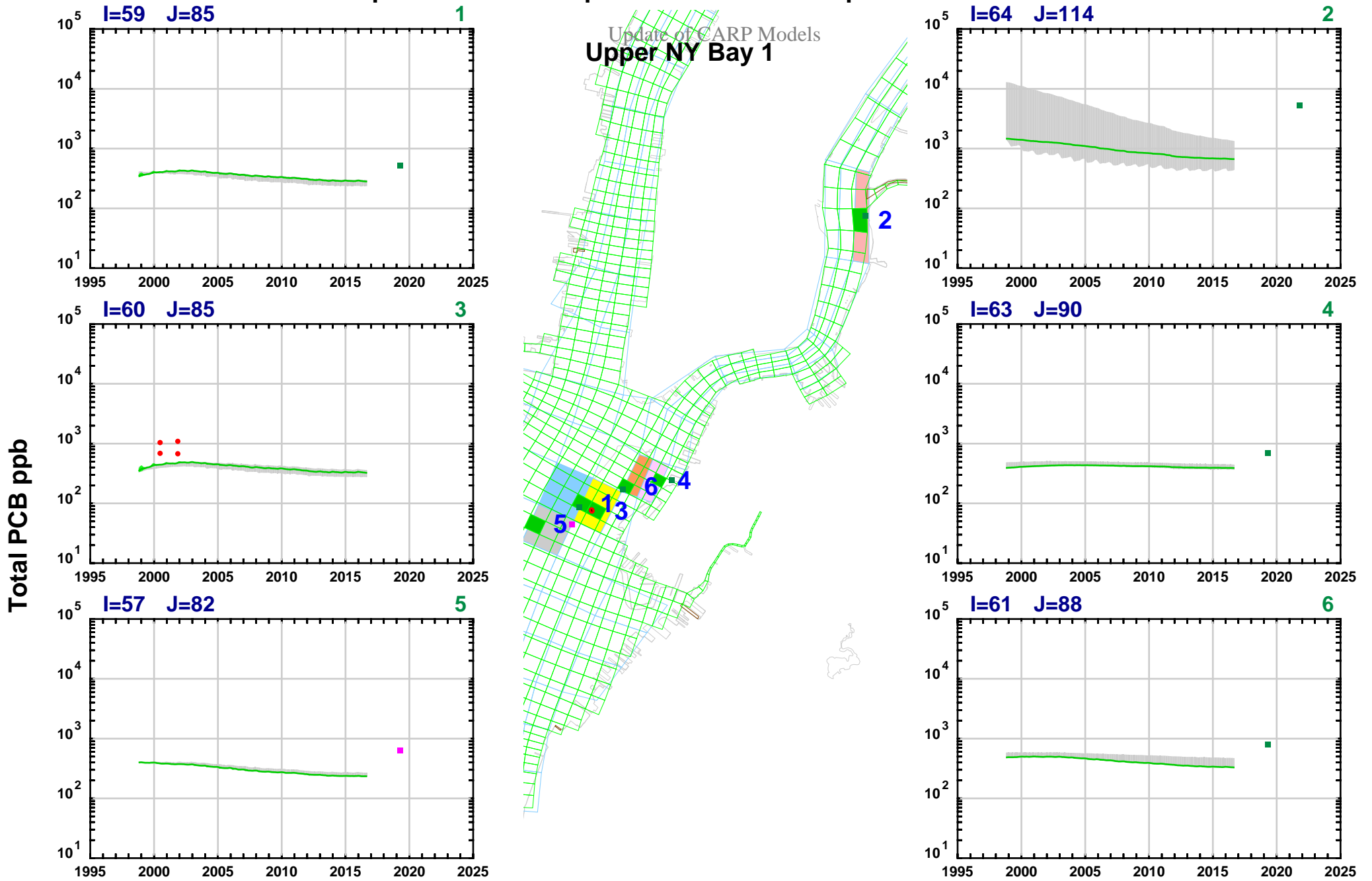


**RUN18**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

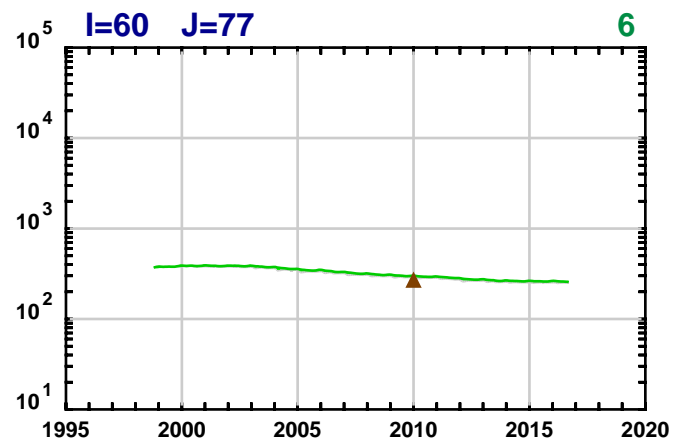
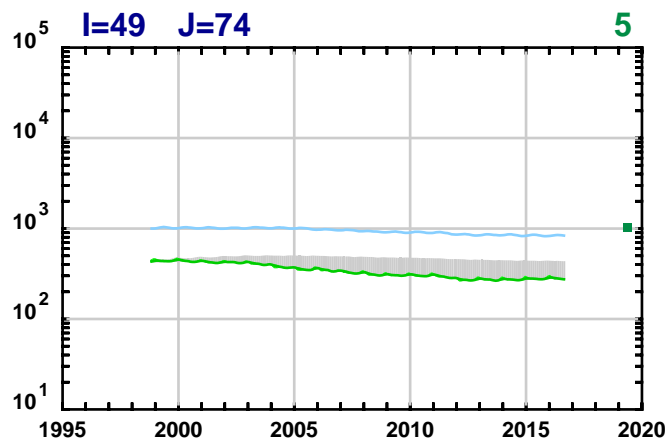
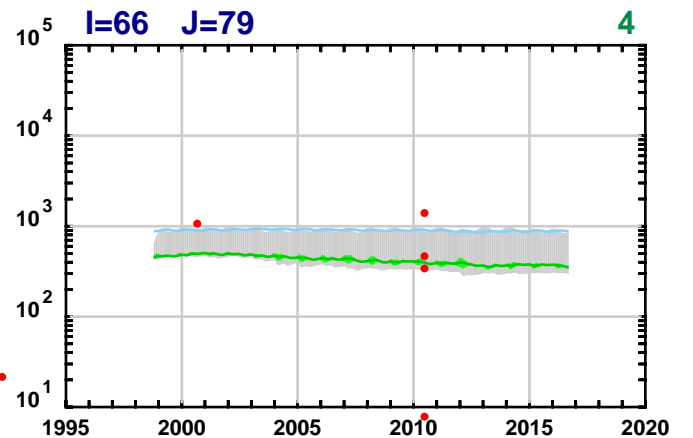
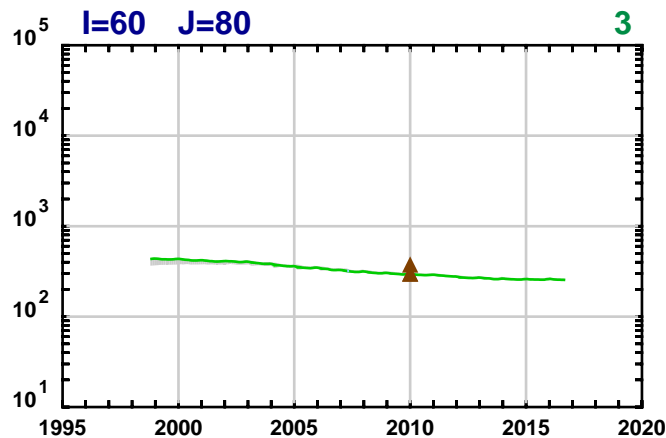
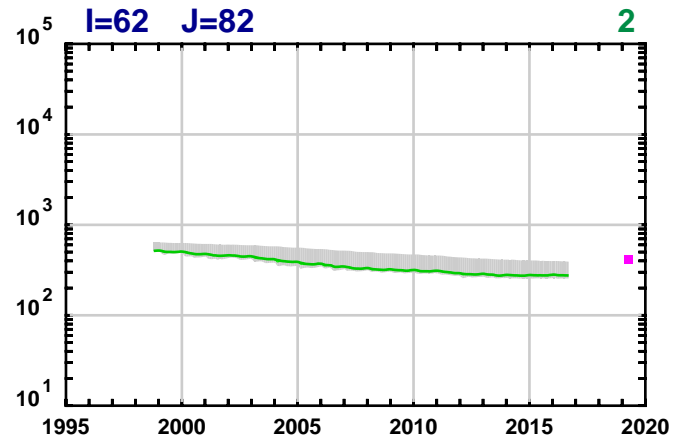
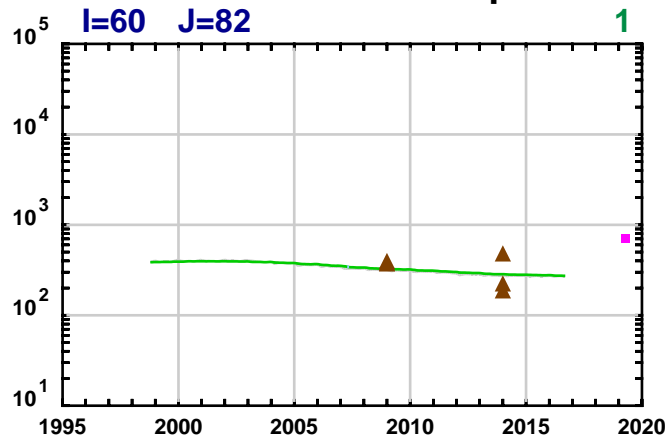
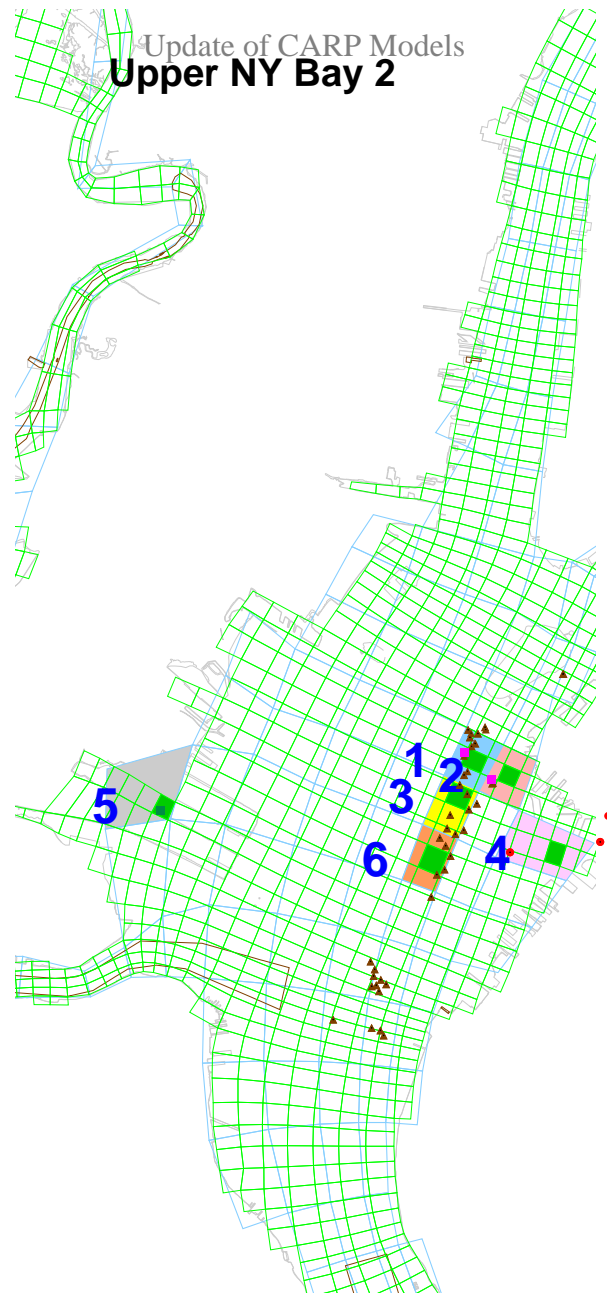


**RUN18**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



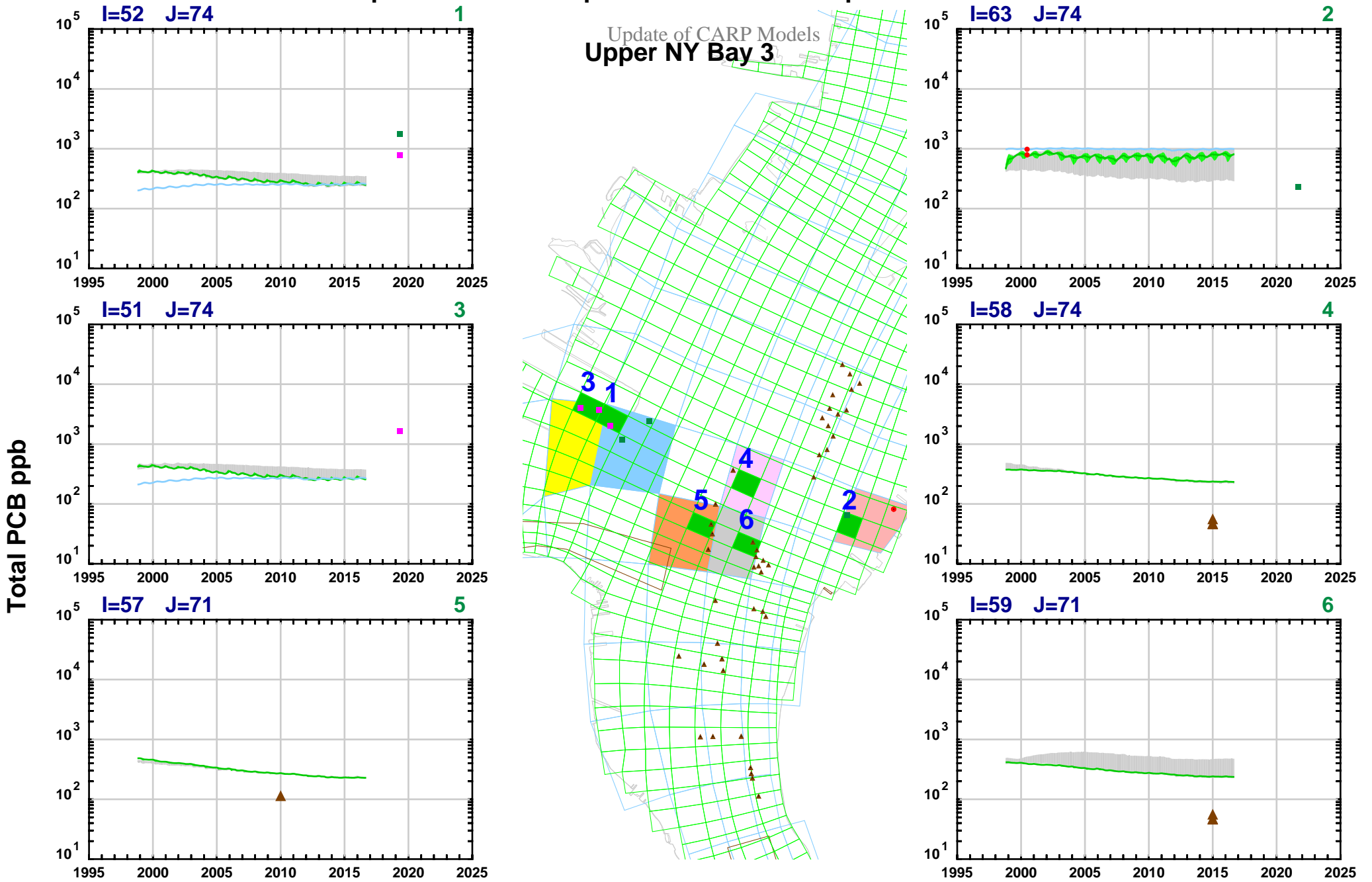
Total PCB ppb

**RUN18**

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

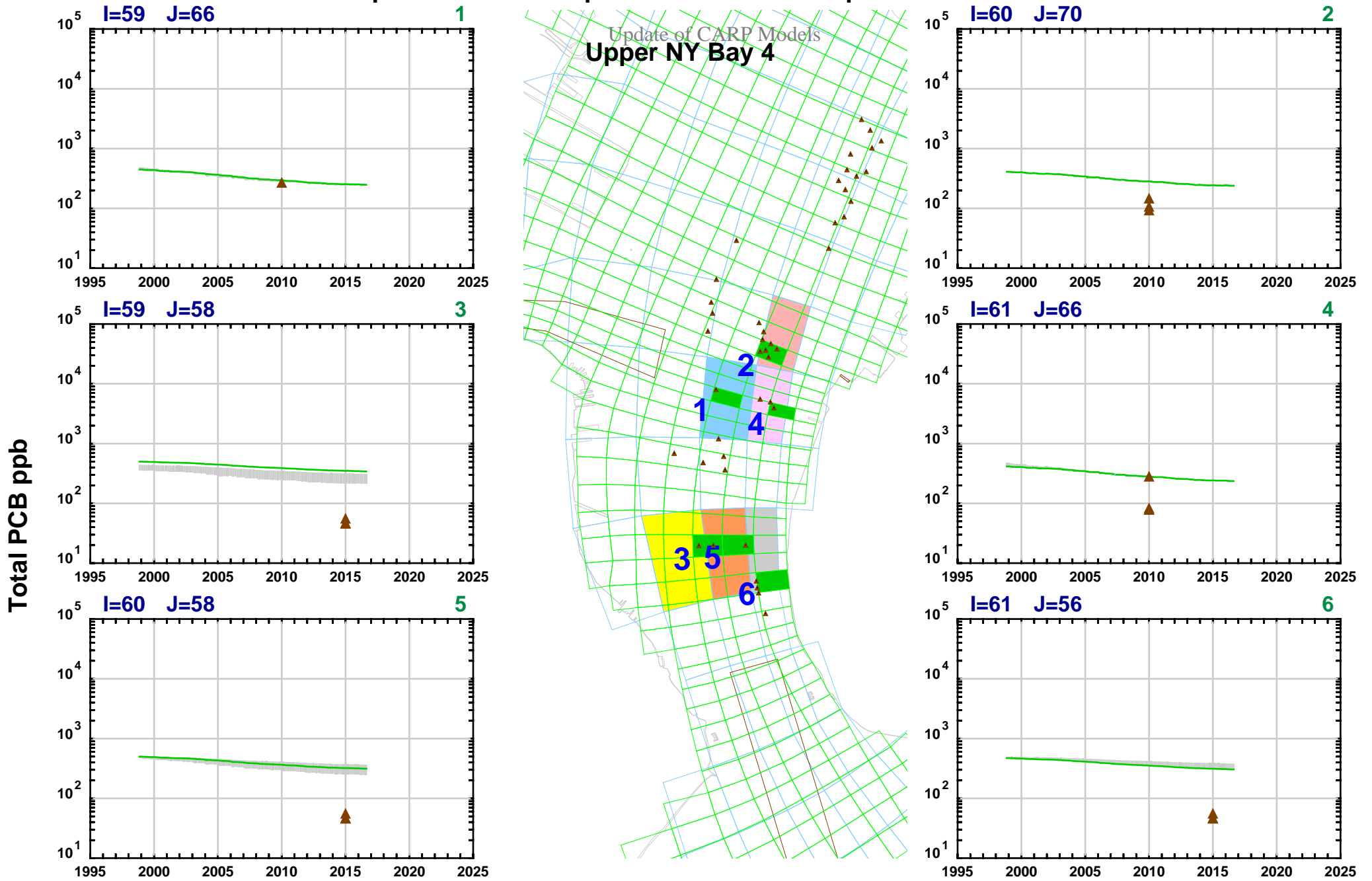


**RUN18**

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



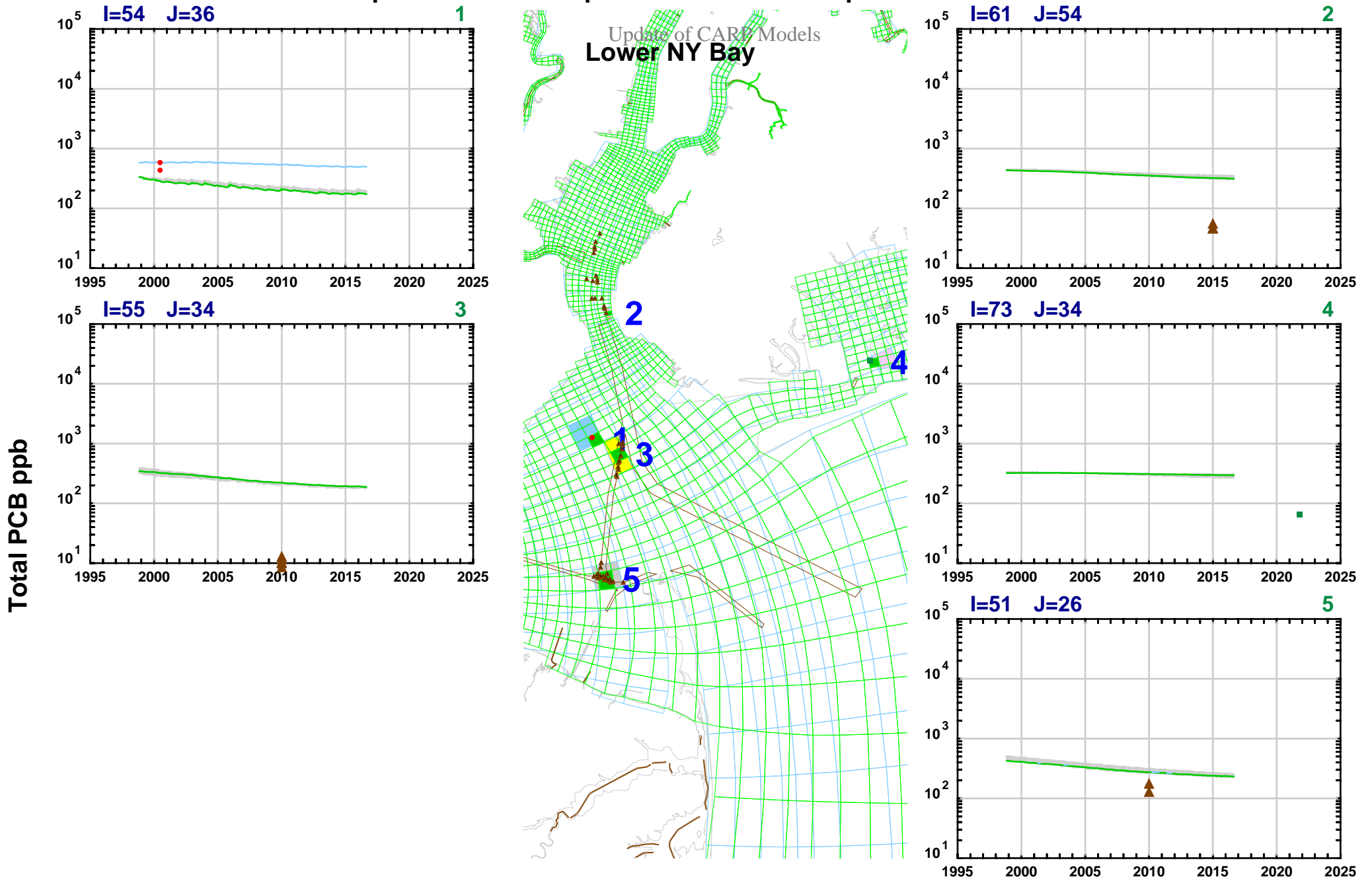
**RUN18**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data ● Off-channel data ▲ Dredge data**  
**■ CARP2 In-channel ■ CARP2 Off-channel**



# Top 15 cm data comparison with model top 10 cm sediment



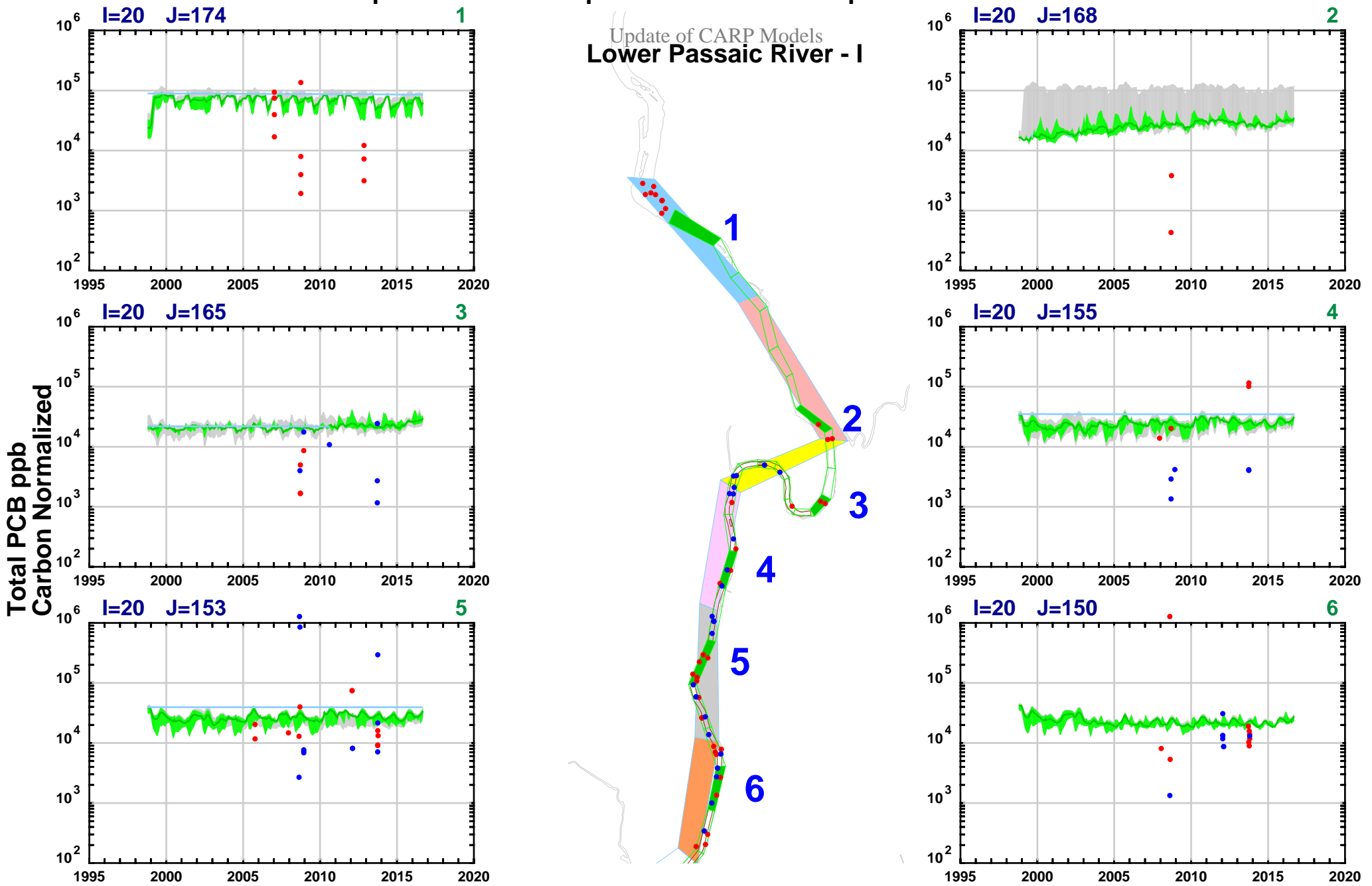
**RUN18**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Lower Passaic River - I



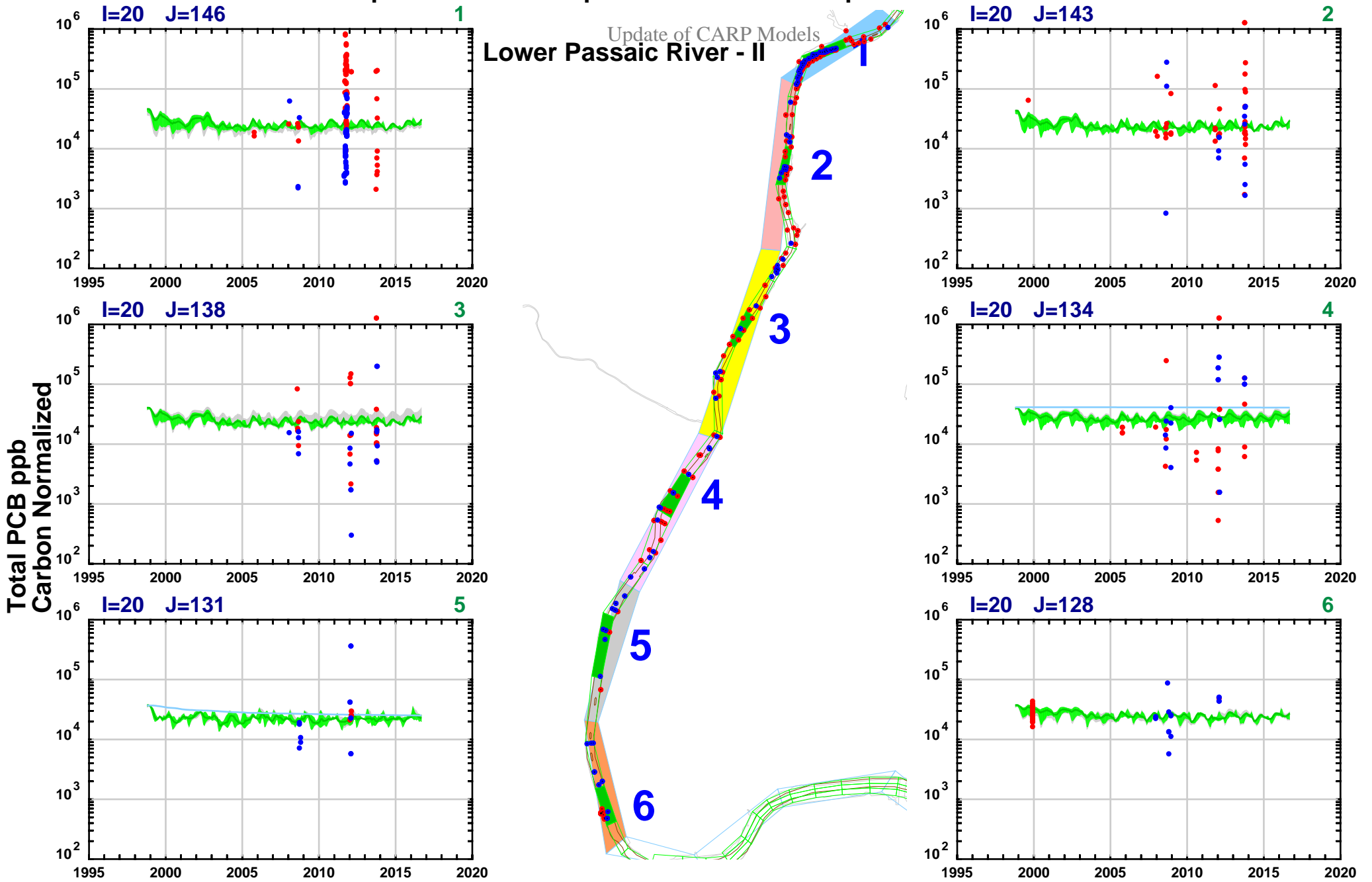
**RUN18**

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
■ CARP2 In-channel   ■ CARP2 Off-channel

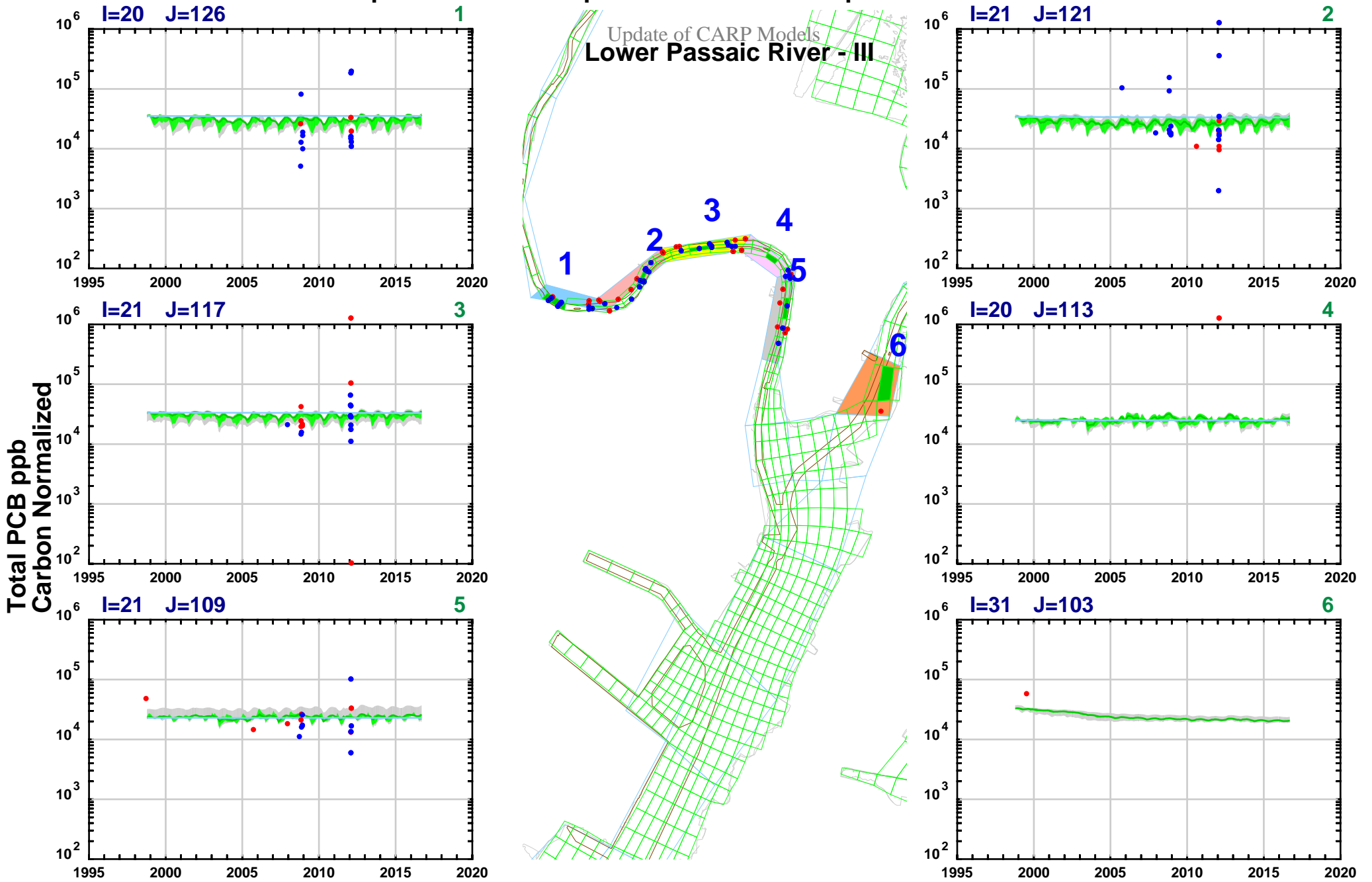


# Top 15 cm data comparison with model top 10 cm sediment



**RUN18**

# Top 15 cm data comparison with model top 10 cm sediment

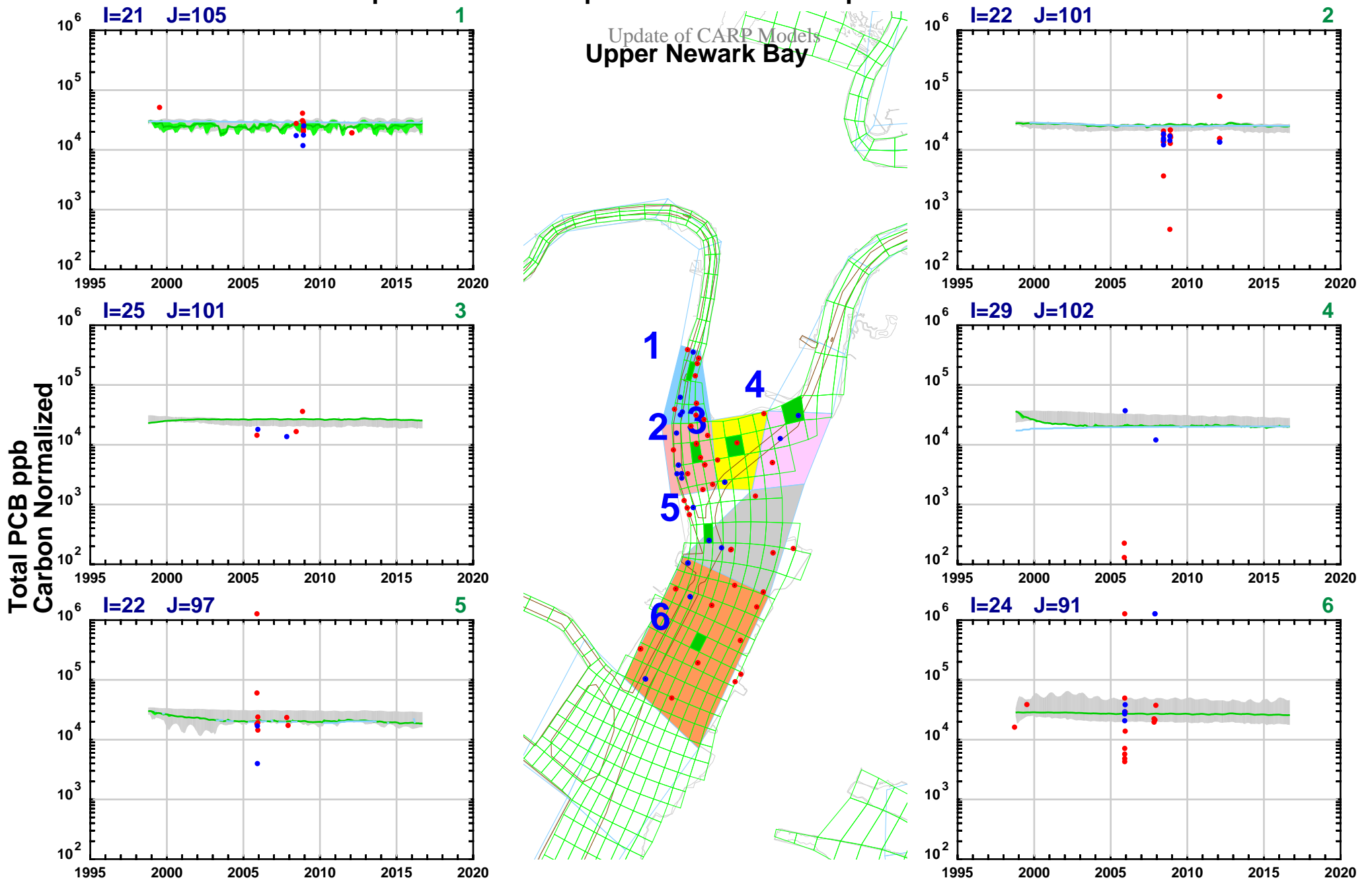


**RUN18**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data    ● Off-channel data    ▲ Dredge data**  
**■ CARP2 In-channel    ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment



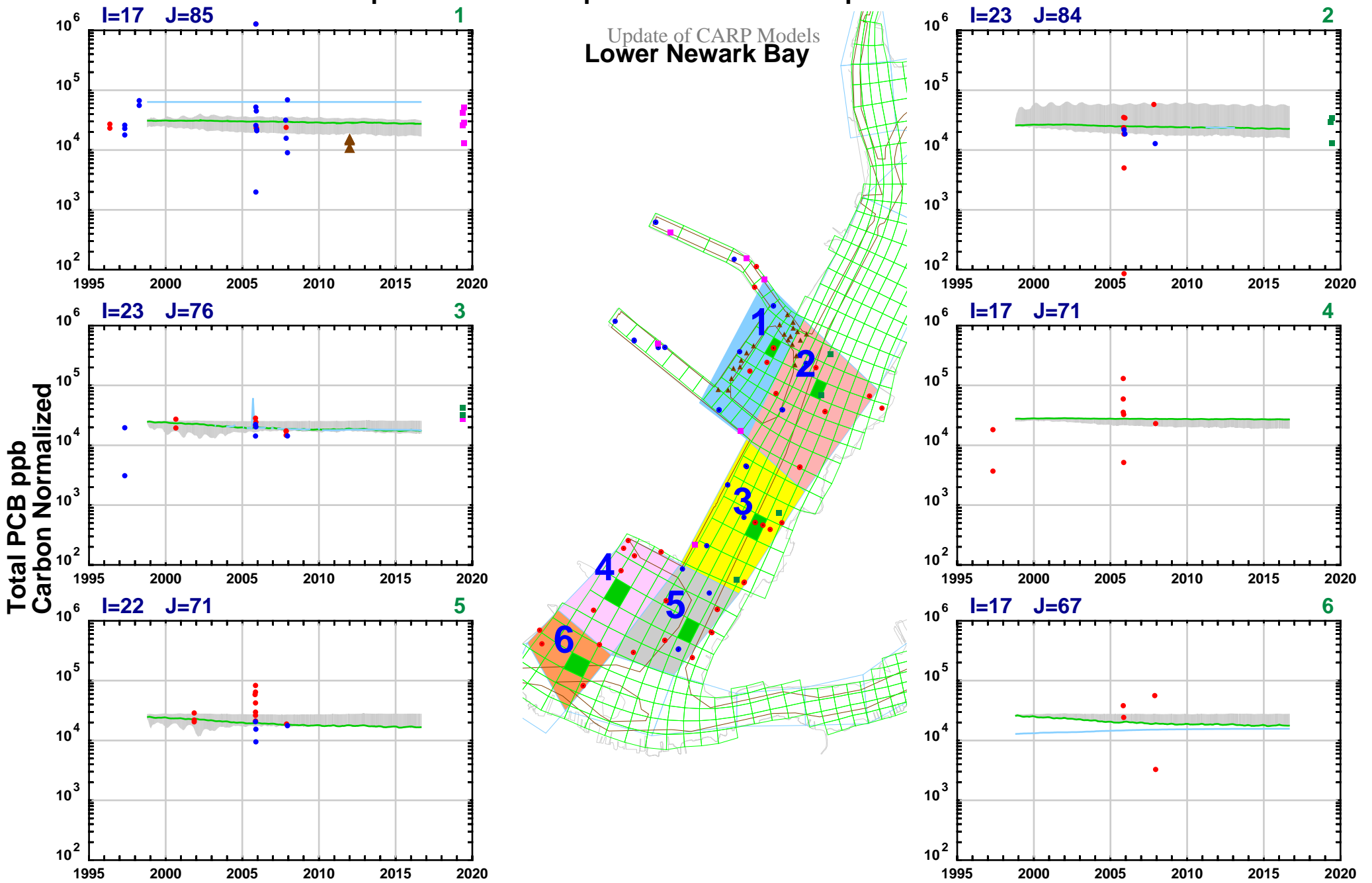
**RUN18**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Lower Newark Bay



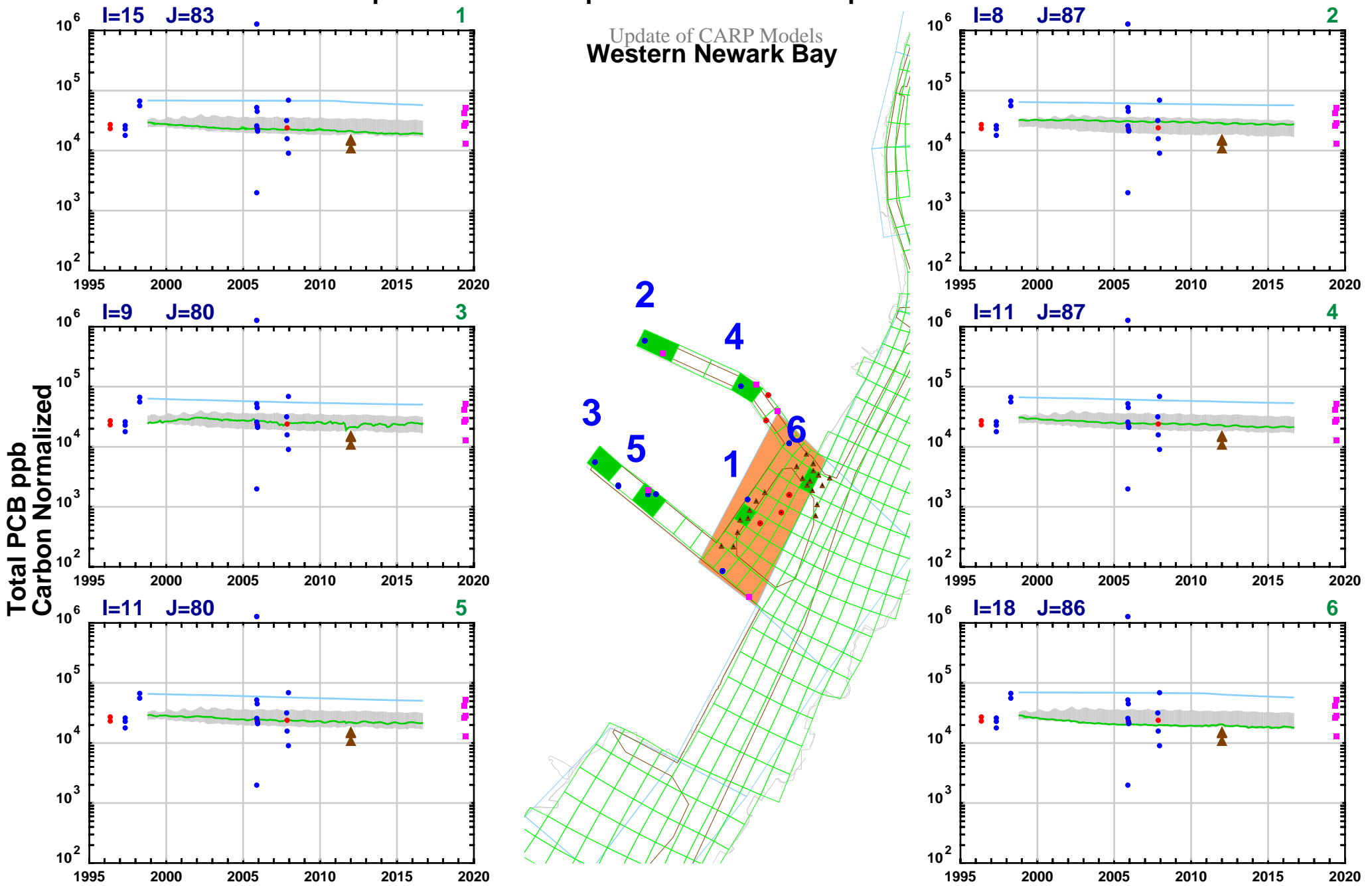
**RUN18**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay



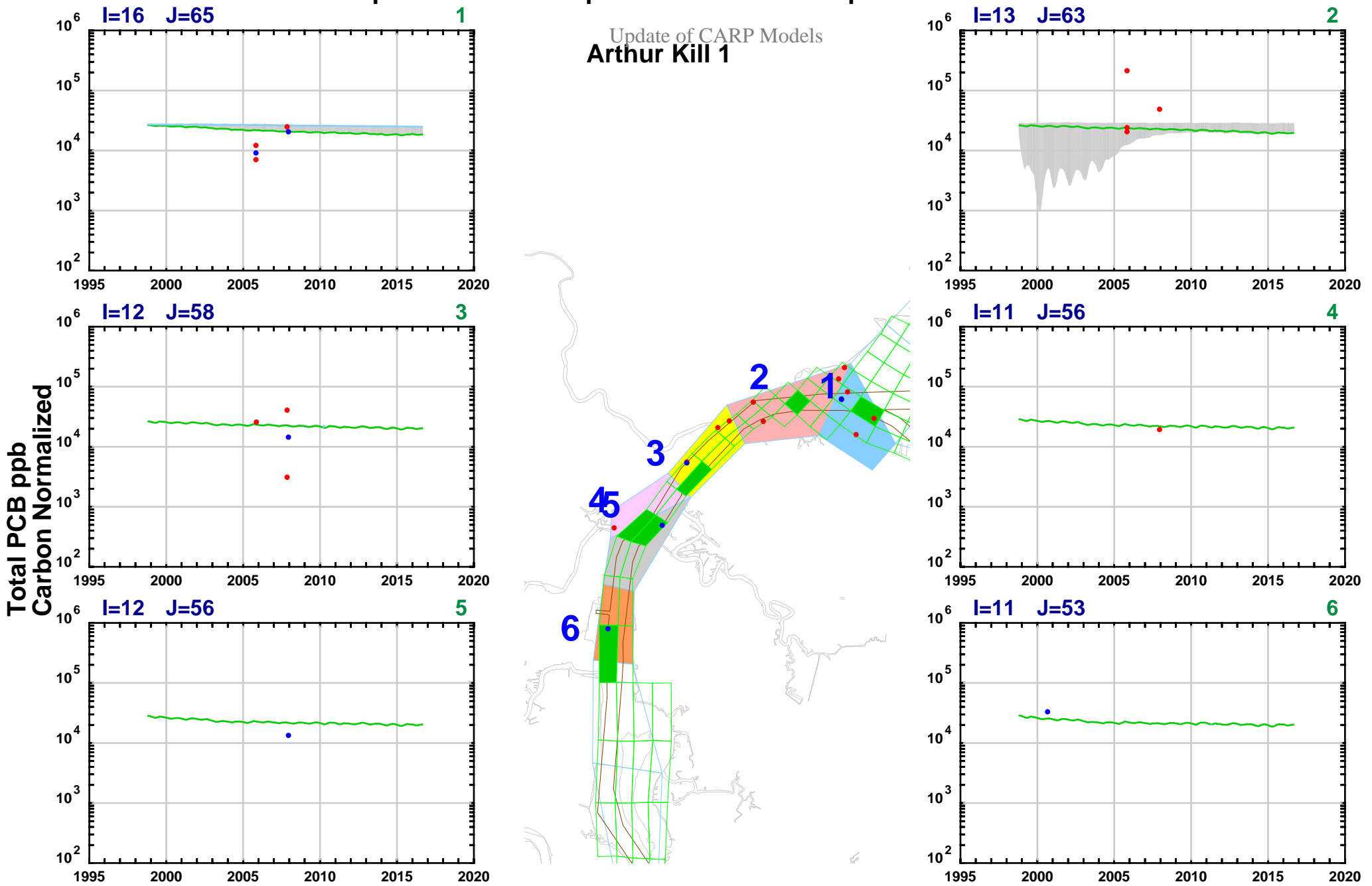
**RUN18**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

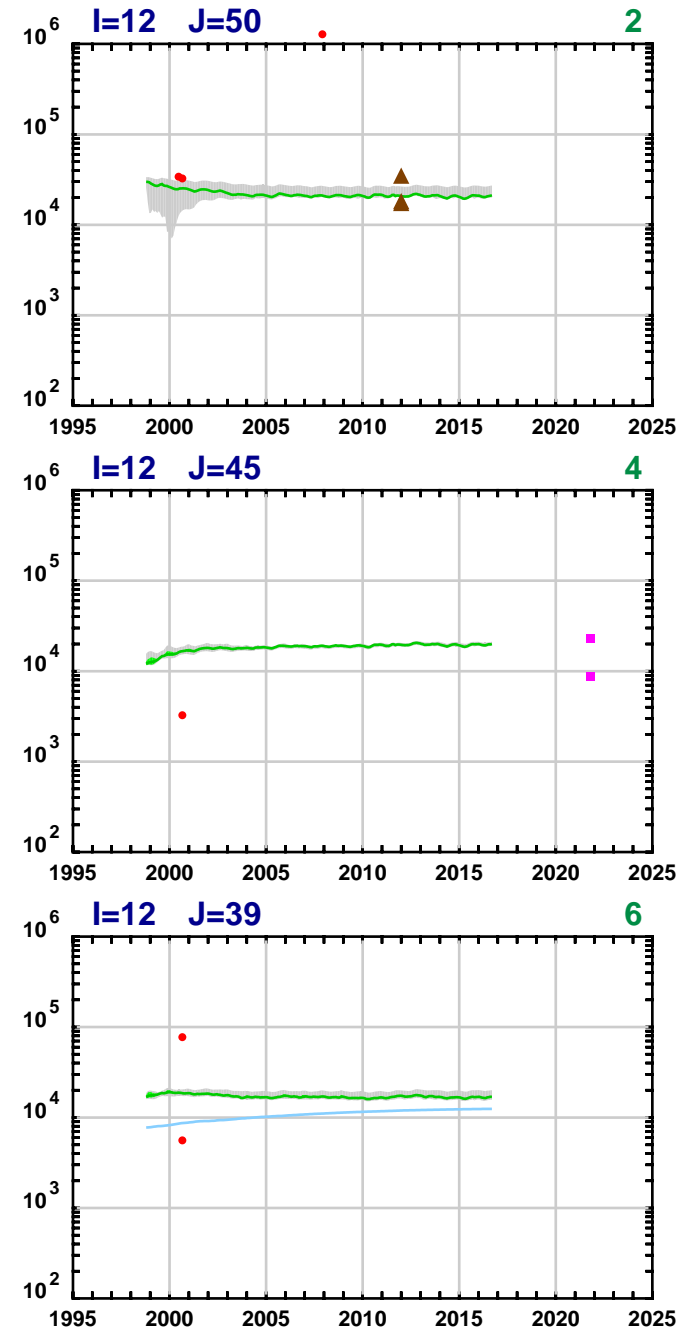
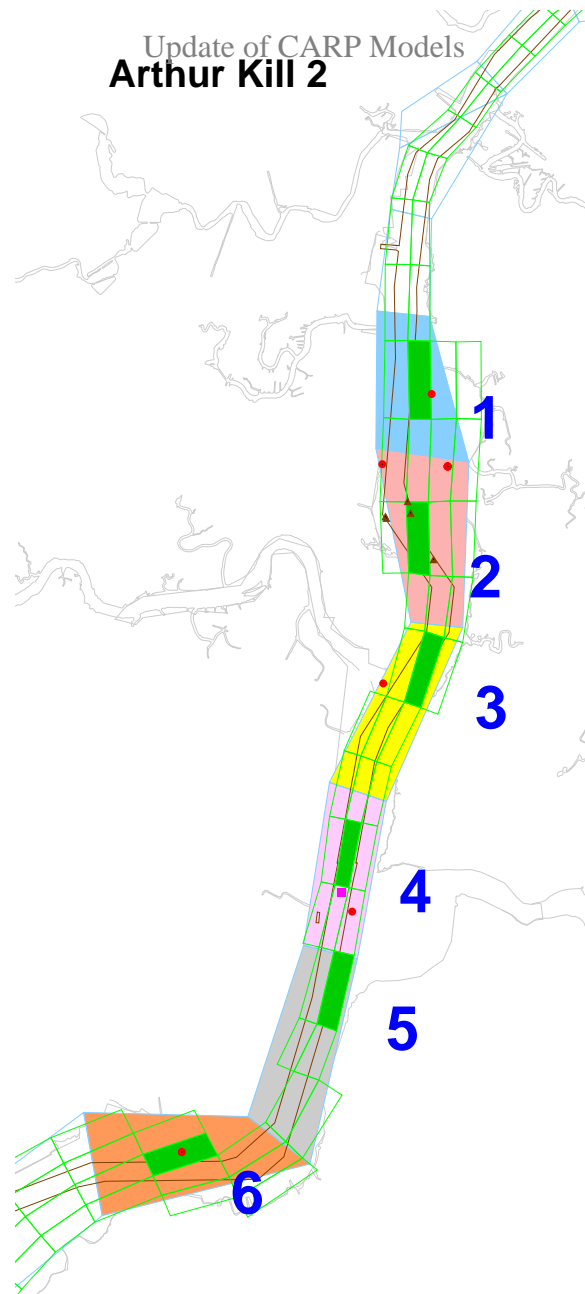
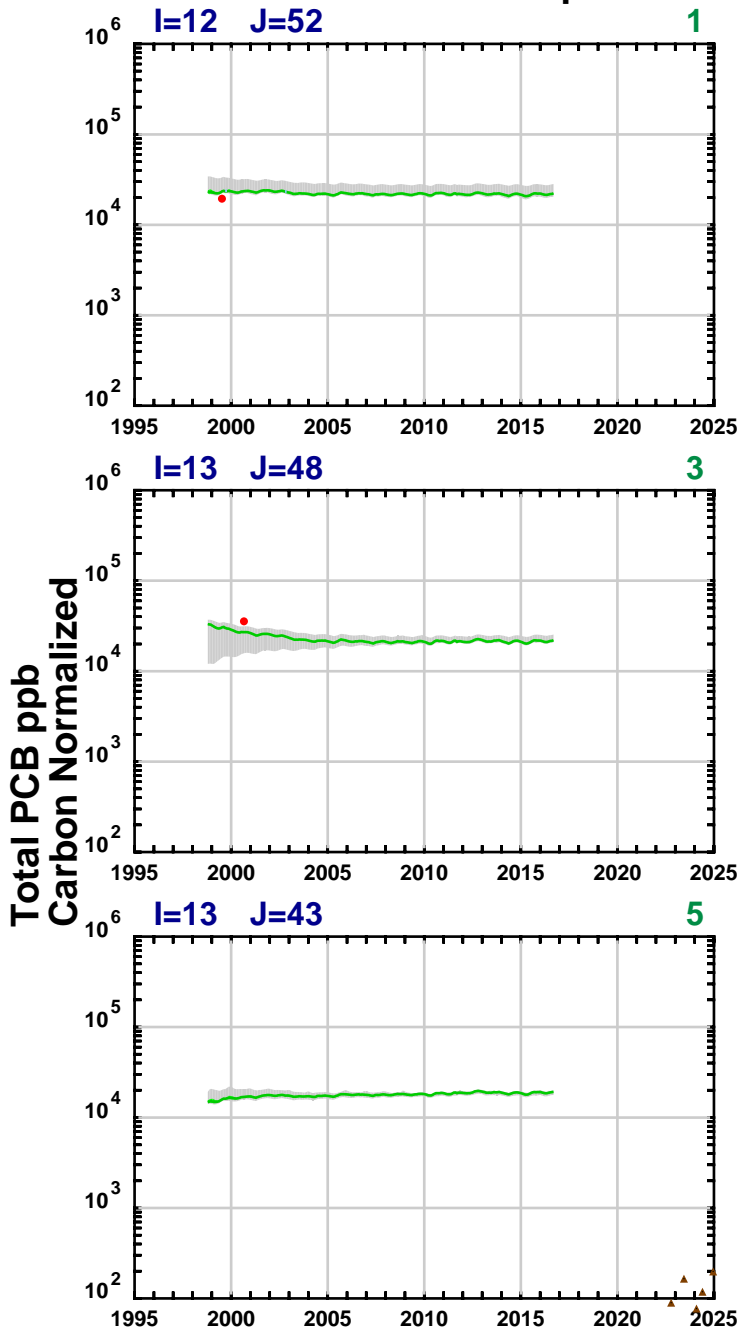


**RUN18**

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

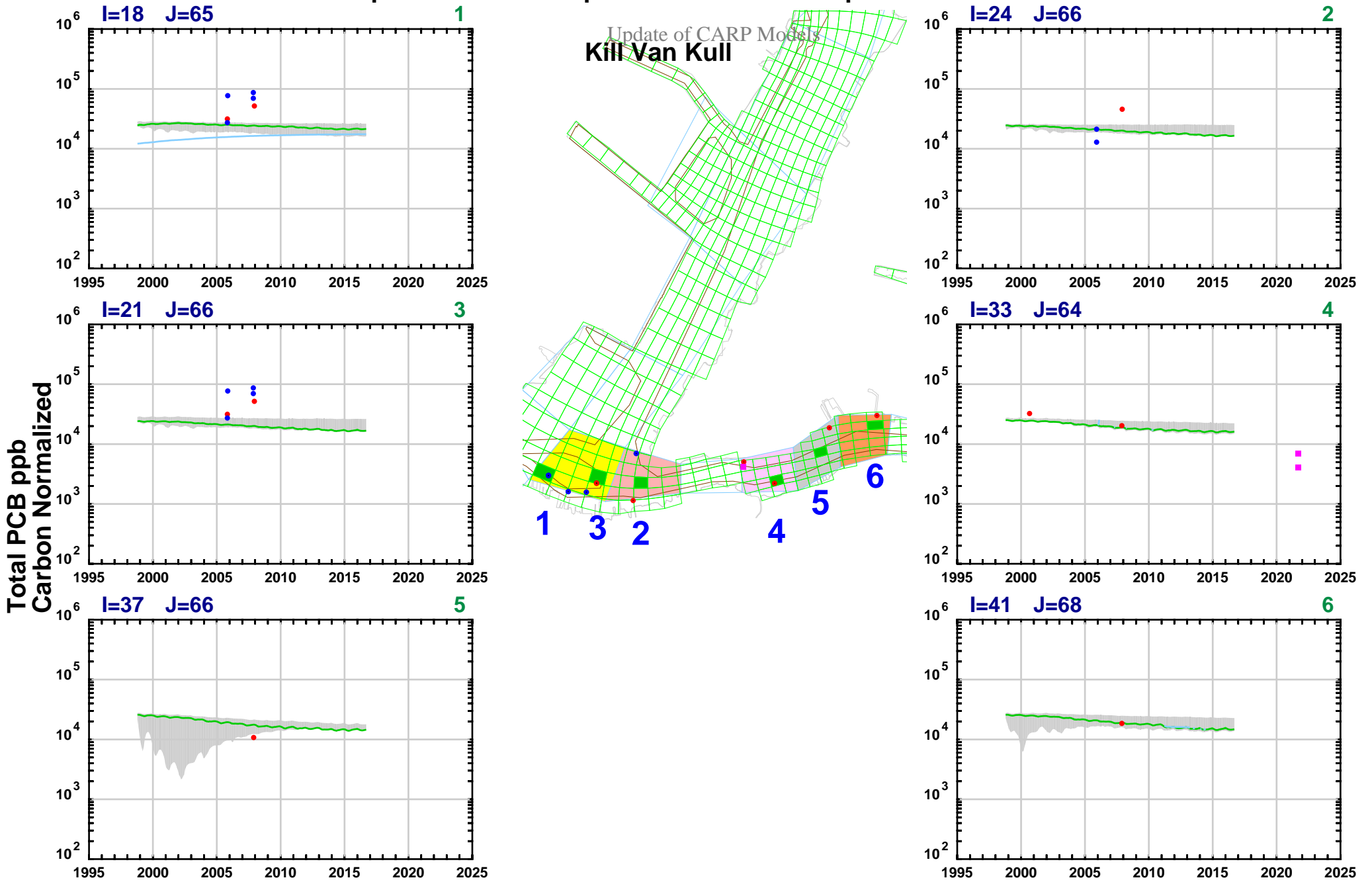


**RUN18**

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



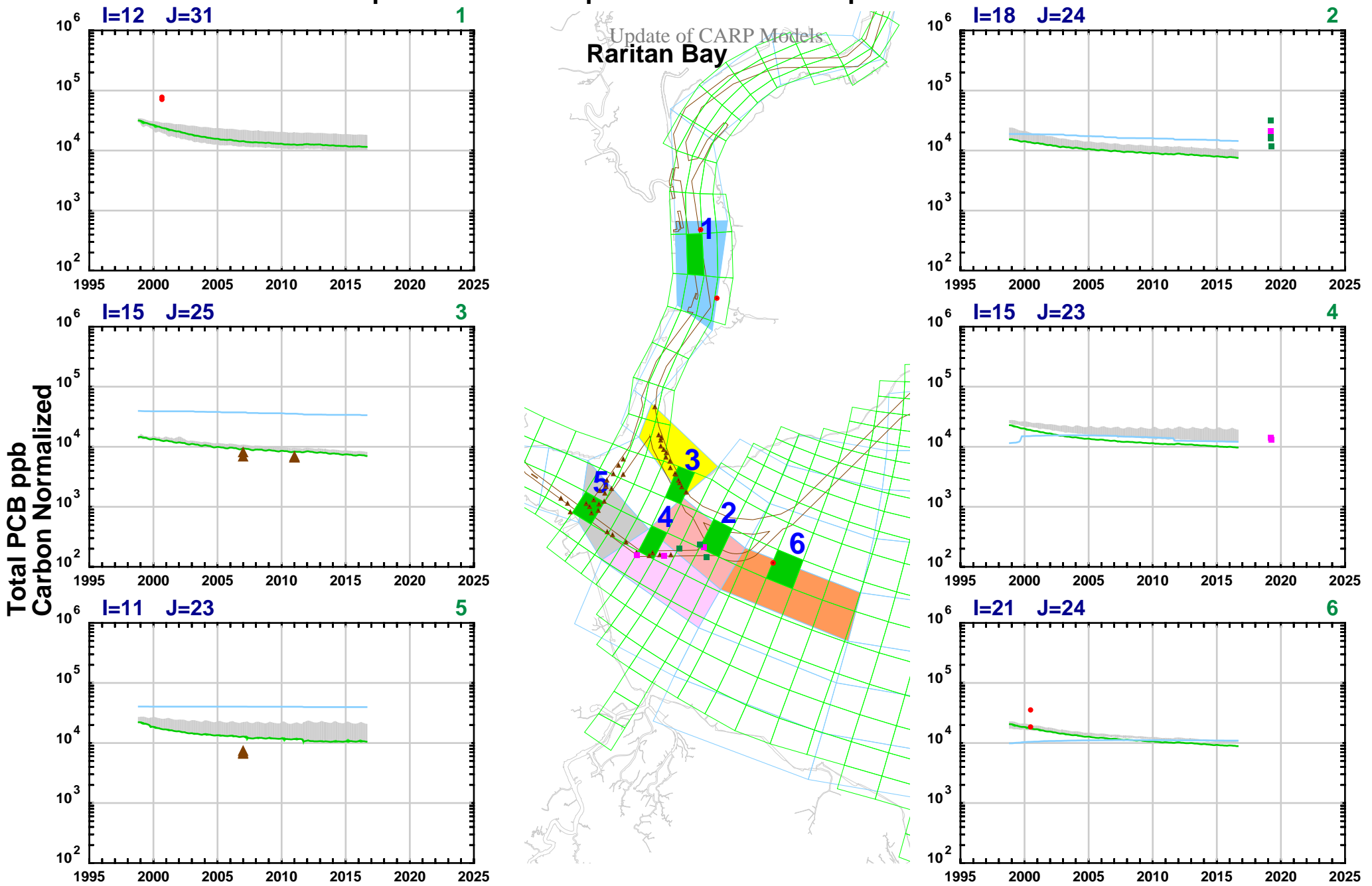
**RUN18**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

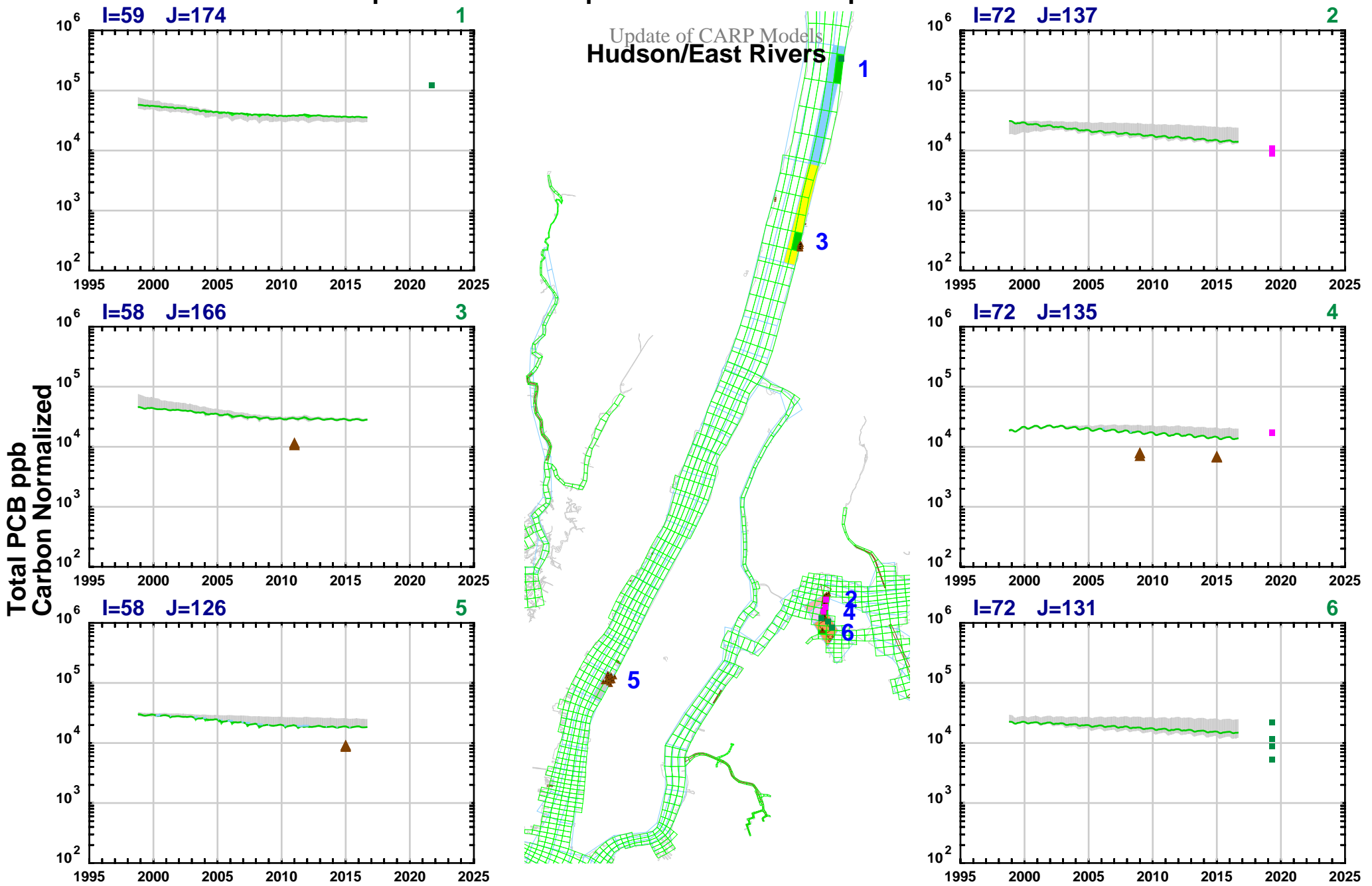


**RUN18**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

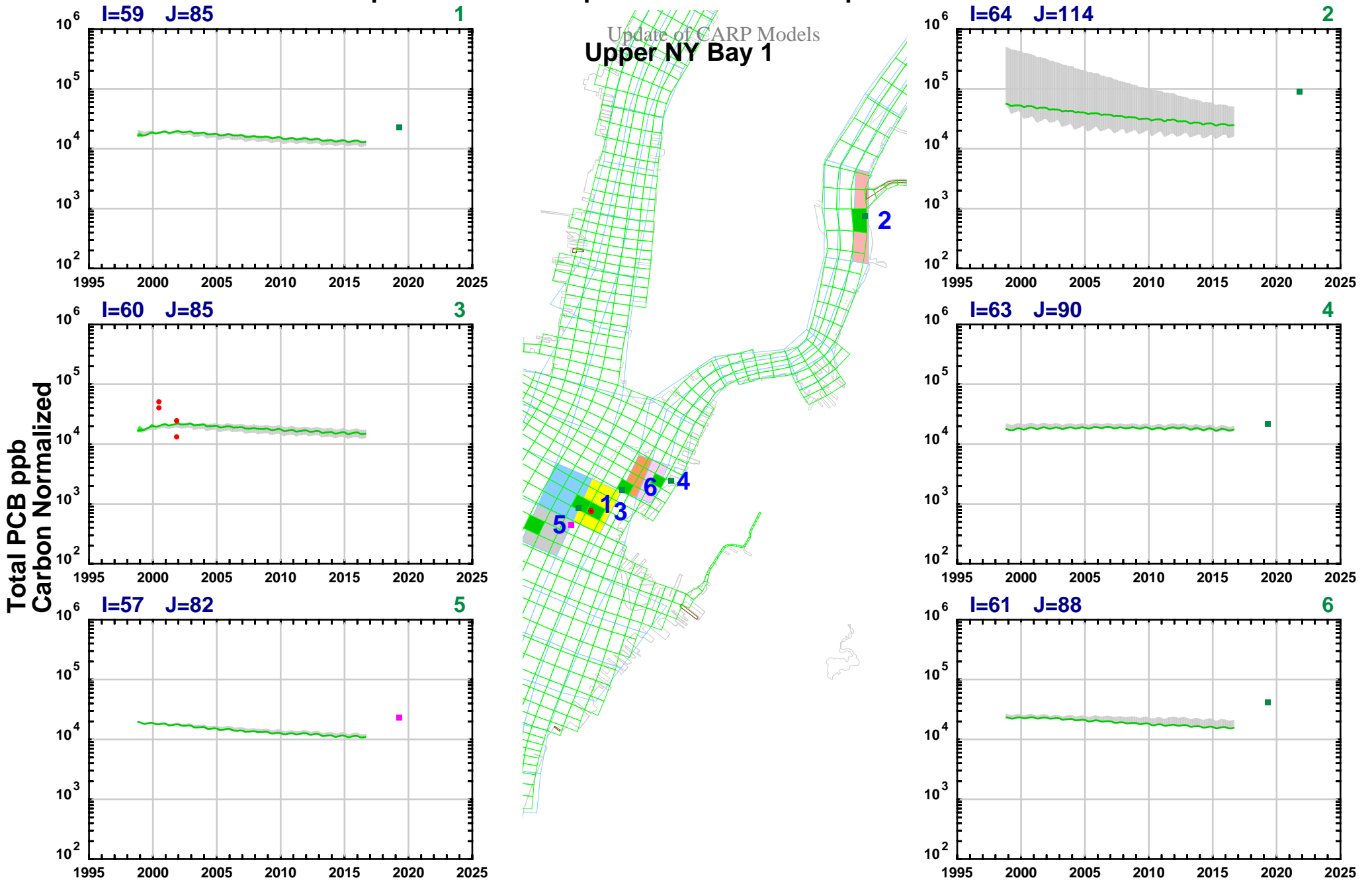


**RUN18**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data ● Off-channel data ▲ Dredge data**  
**■ CARP2 In-channel ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

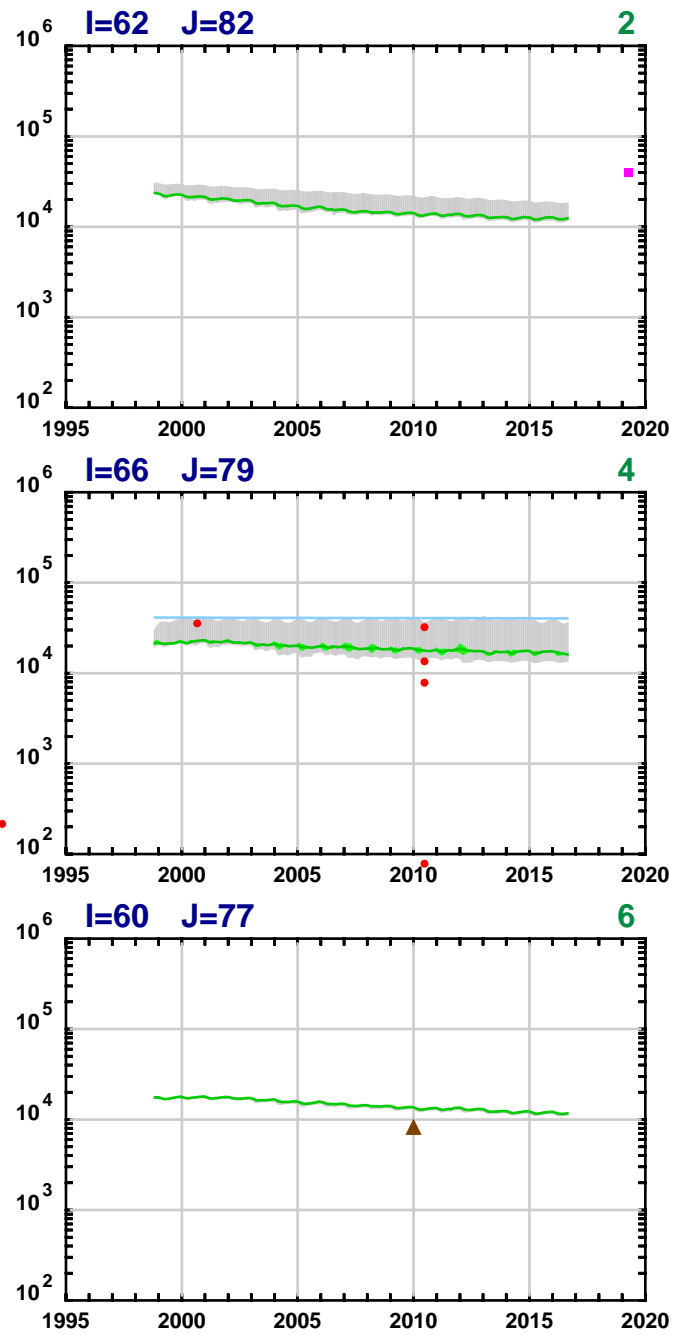
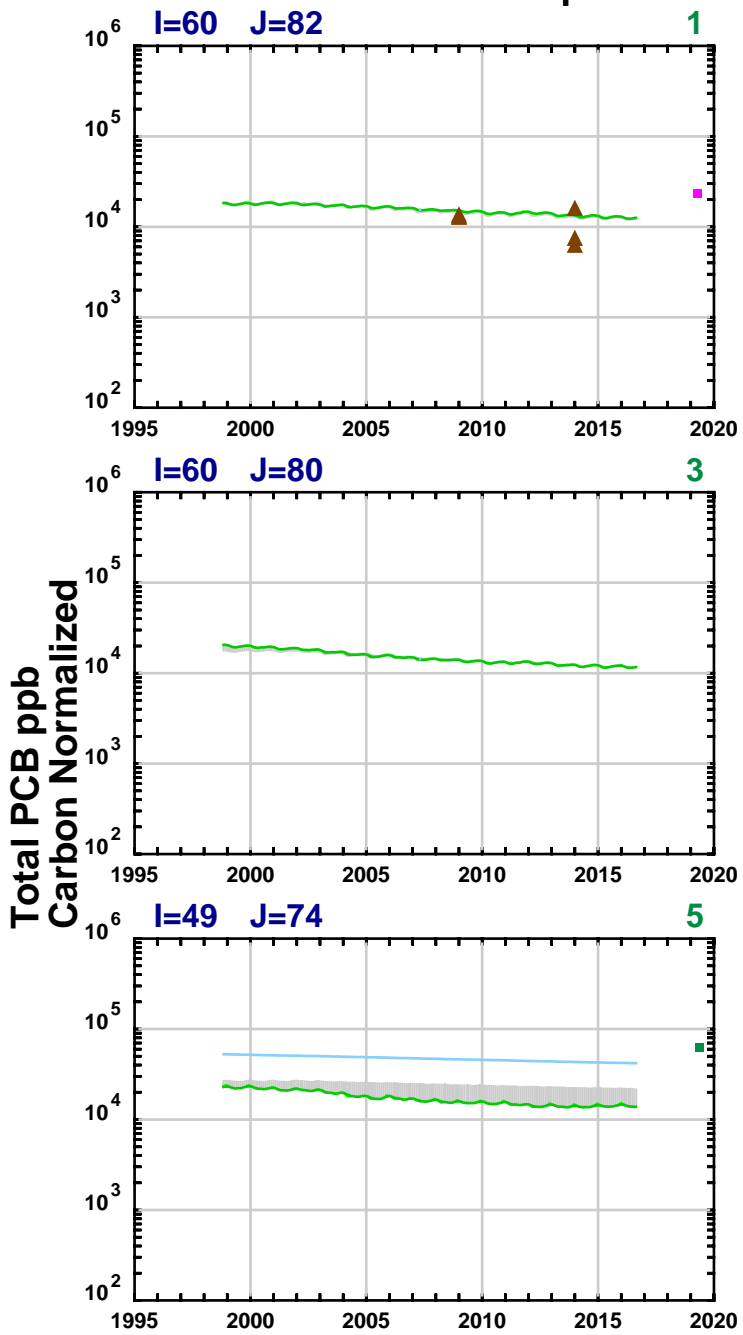
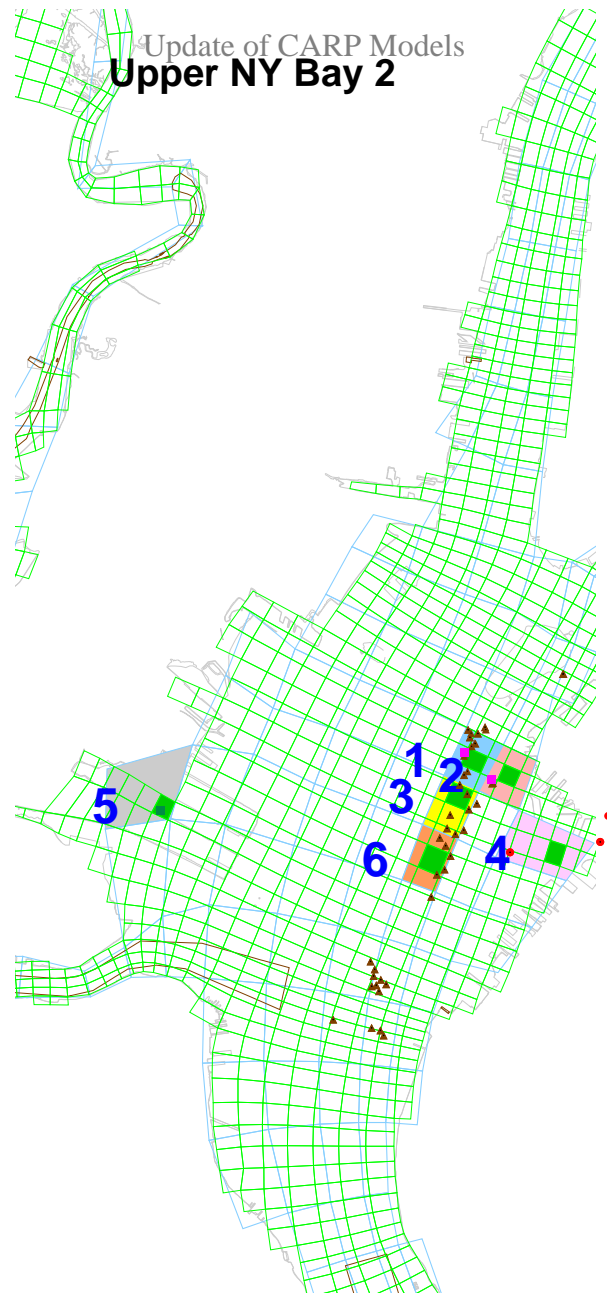


**RUN18**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data    ● Off-channel data    ▲ Dredge data**  
**■ CARP2 In-channel    ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

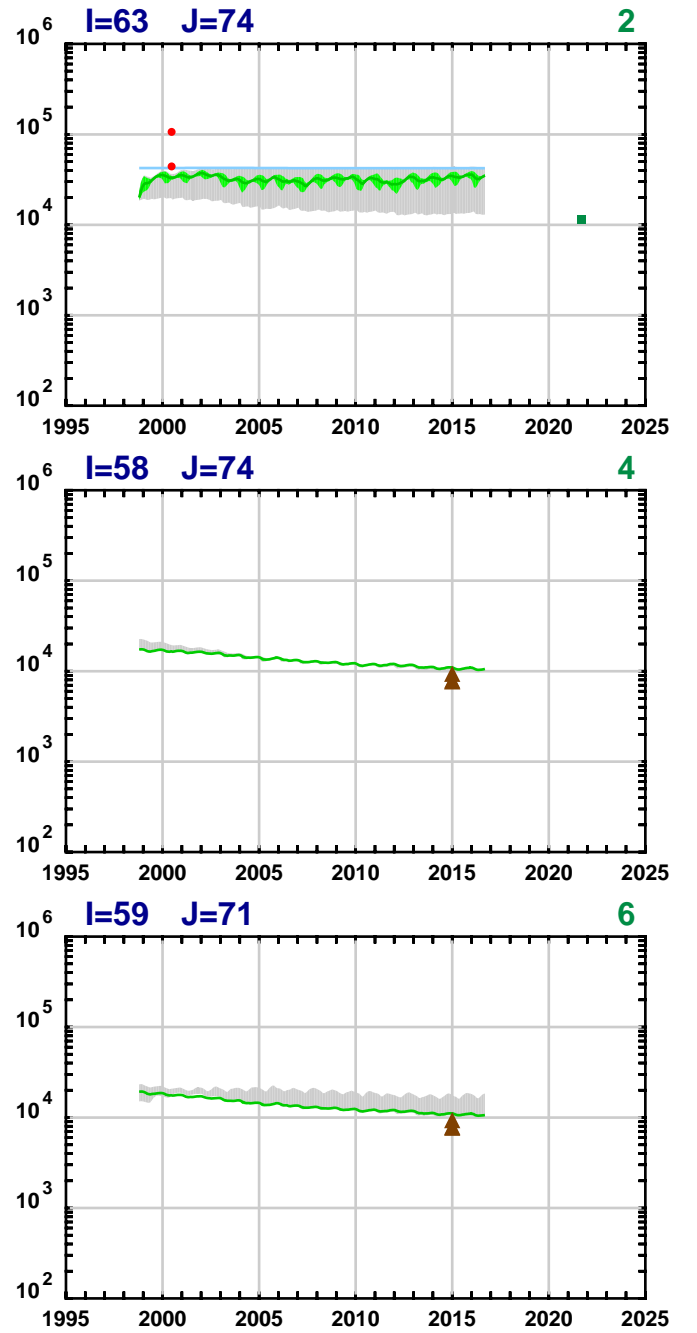
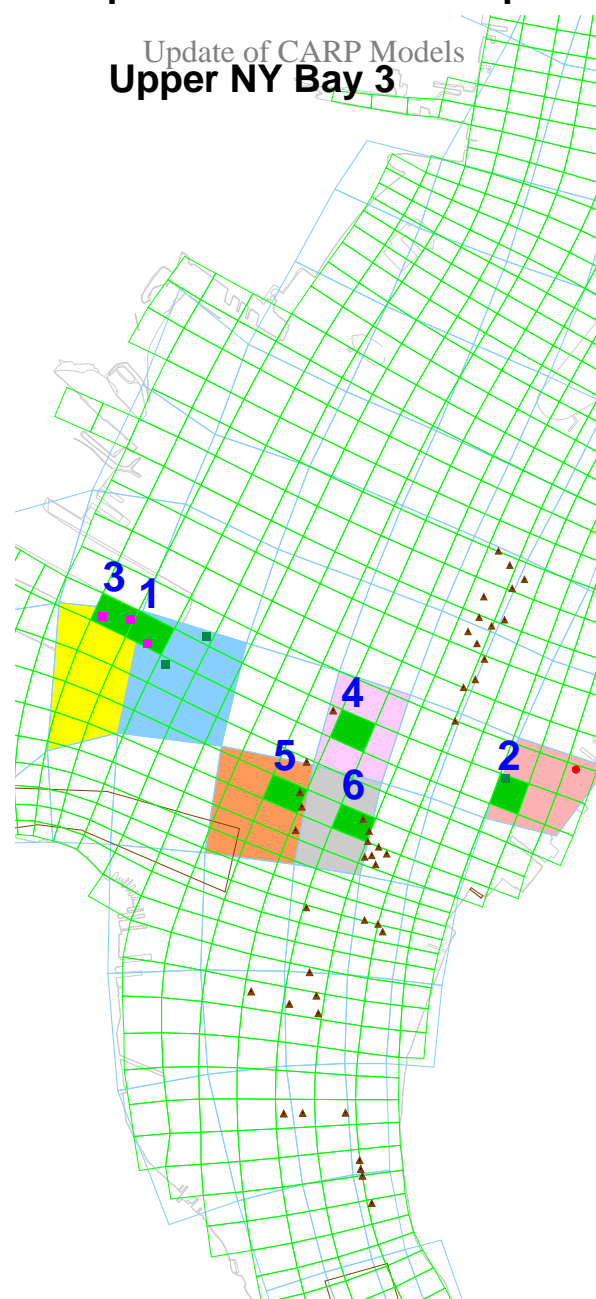
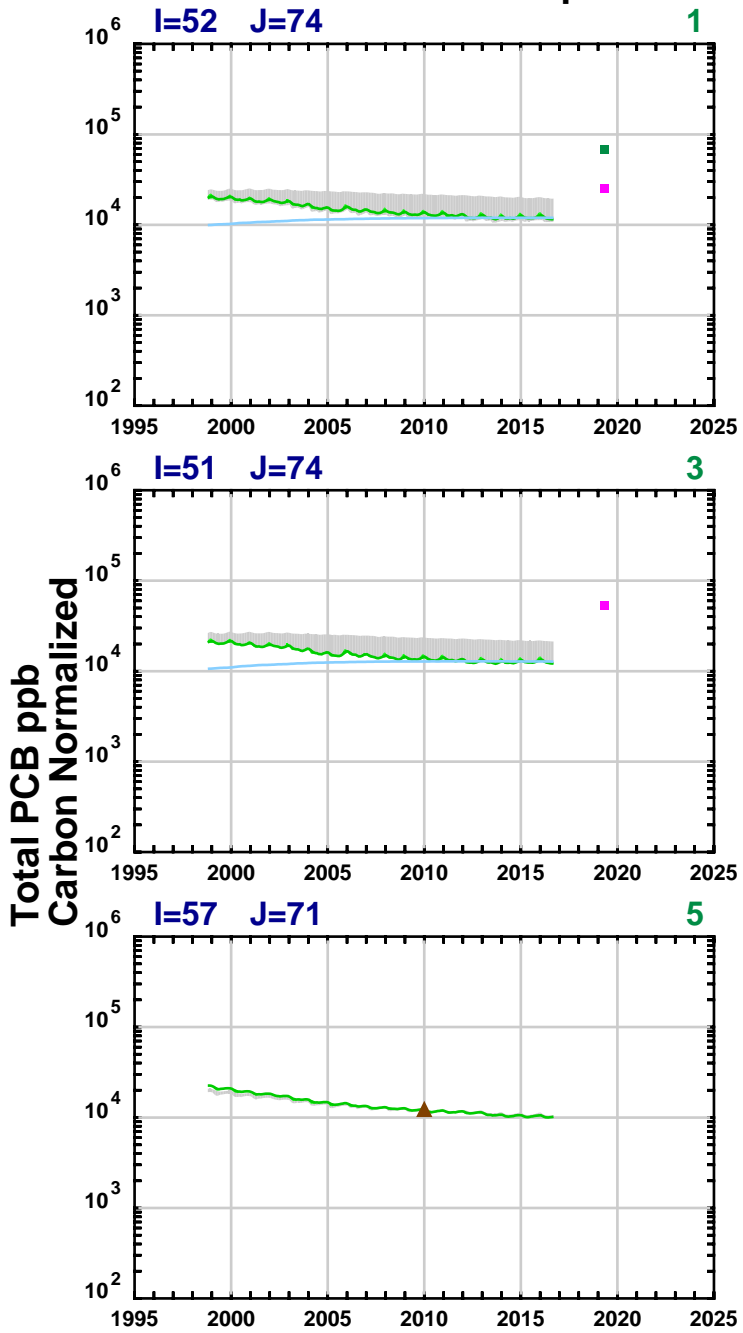


**RUN18**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data    ● Off-channel data    ▲ Dredge data**  
**■ CARP2 In-channel    ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

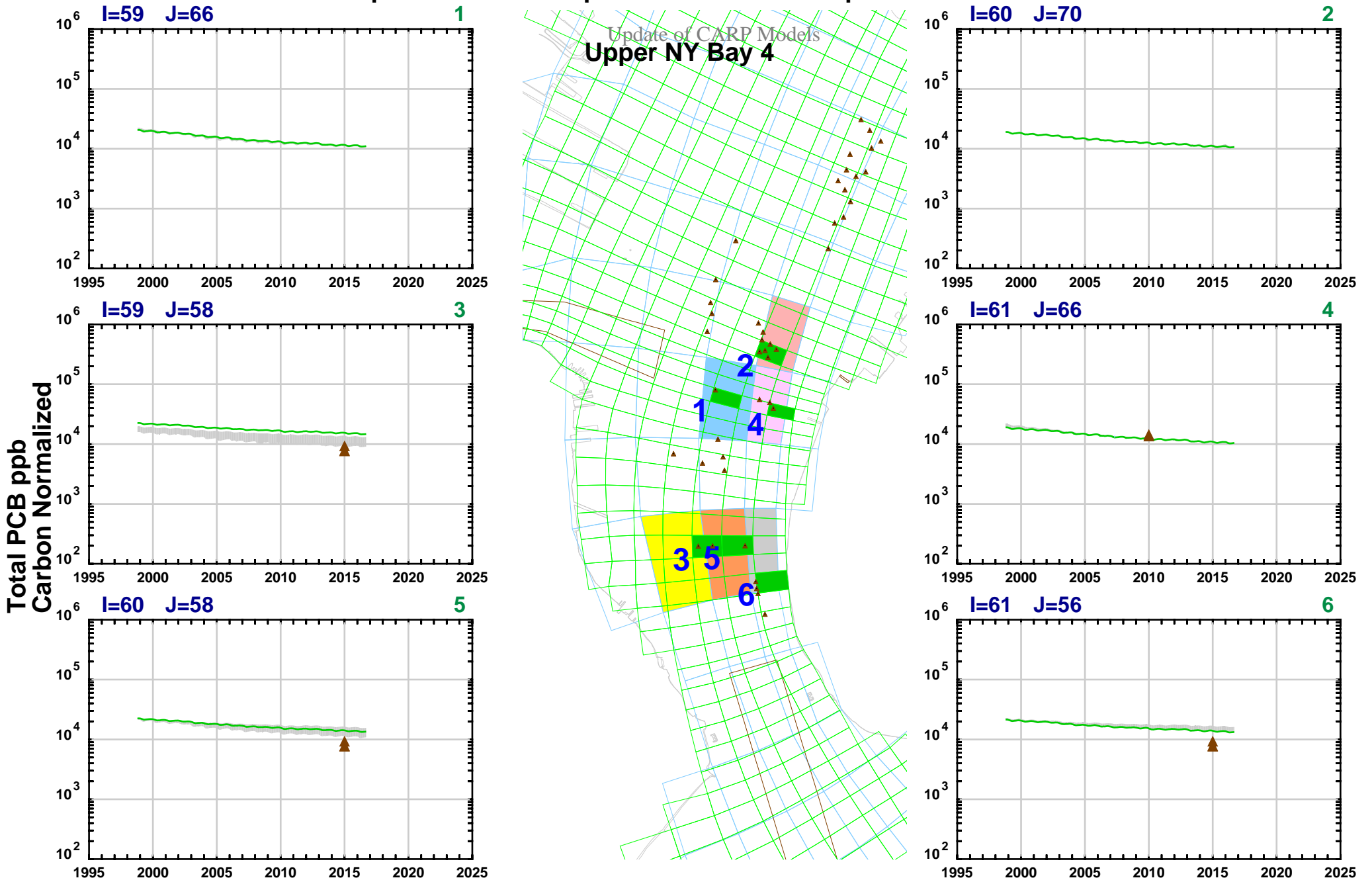


**RUN18**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



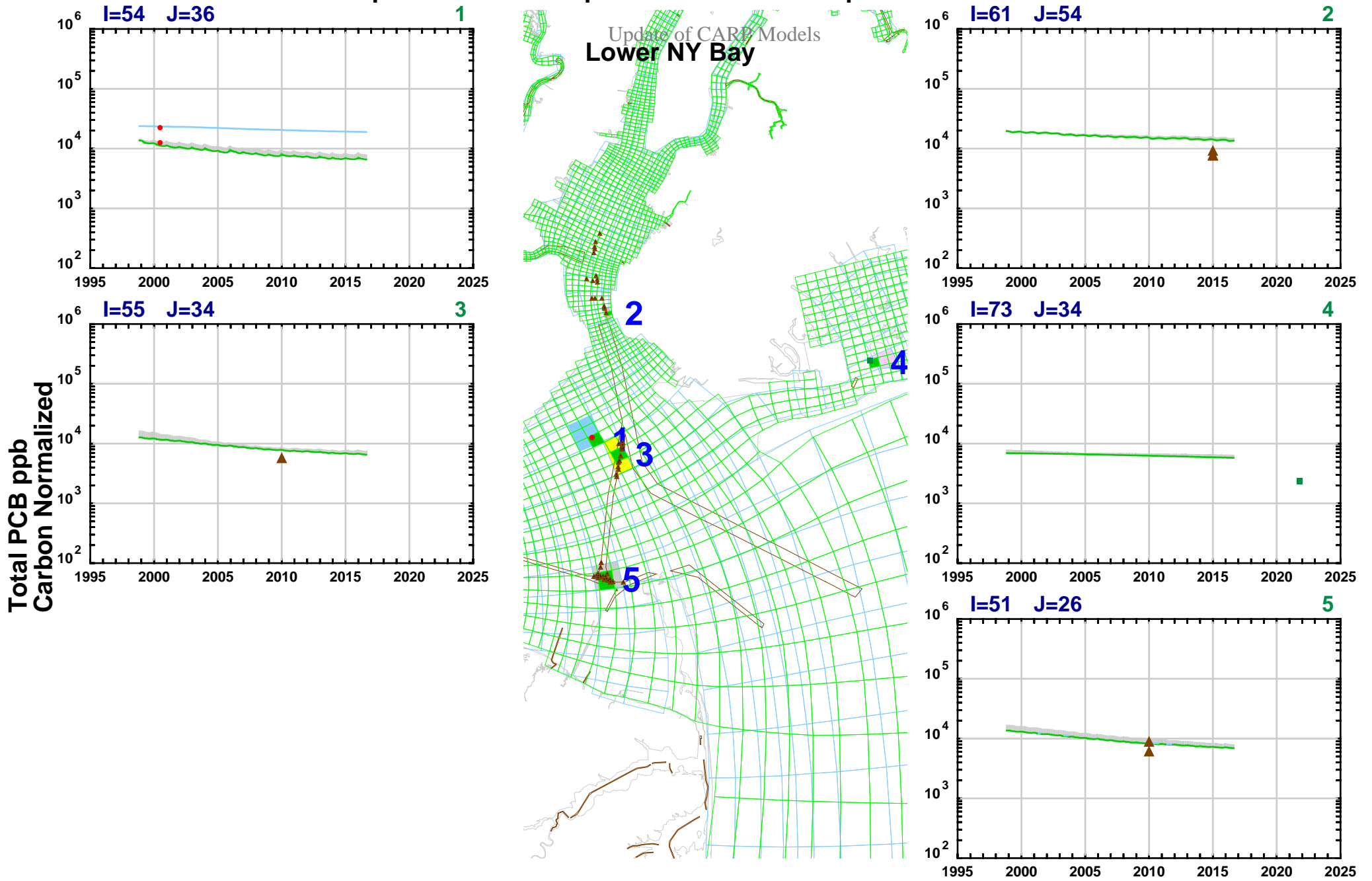
**RUN18**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data ● Off-channel data ▲ Dredge data**  
**■ CARP2 In-channel ■ CARP2 Off-channel**



# Top 15 cm data comparison with model top 10 cm sediment

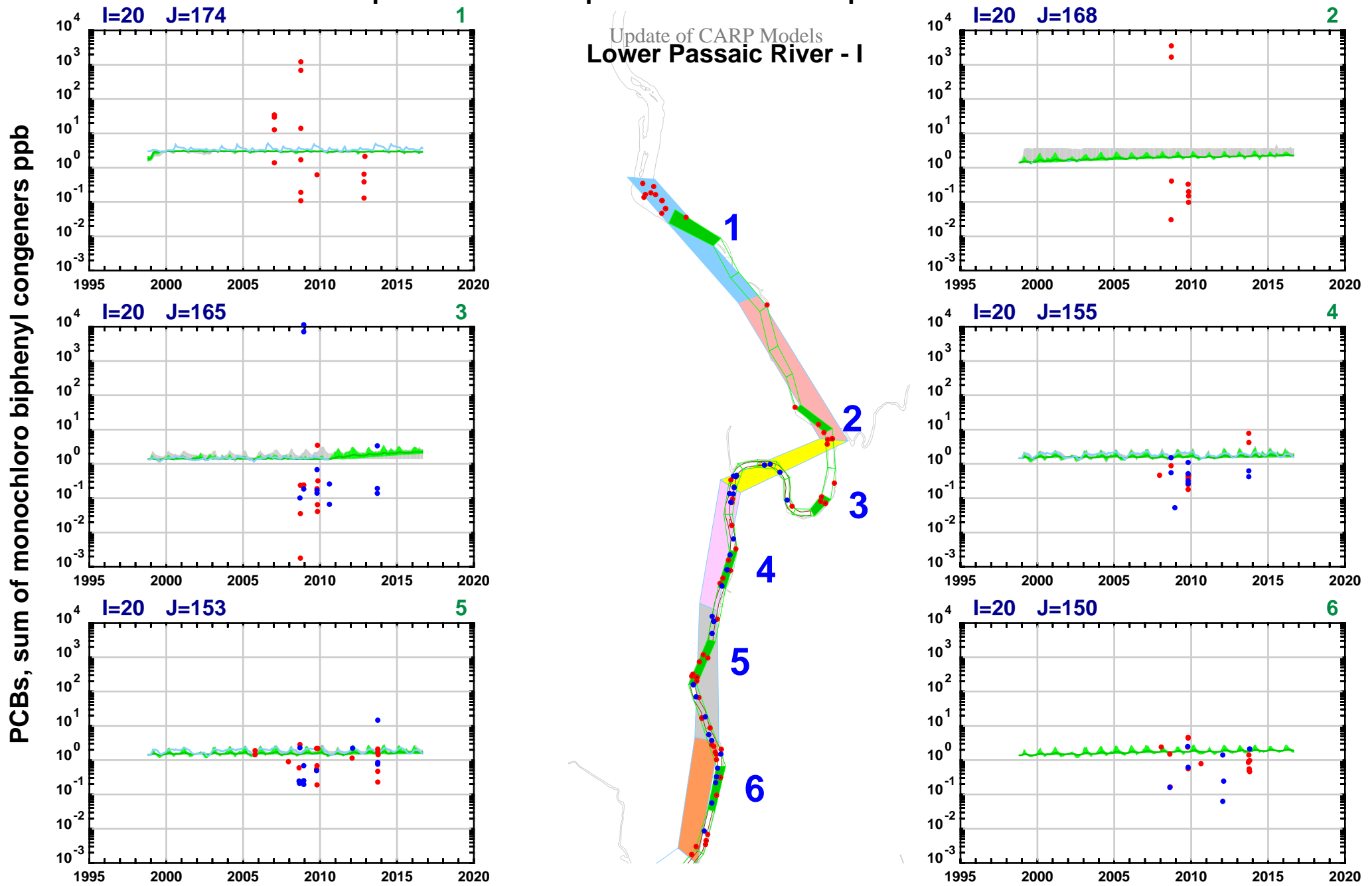


**RUN18**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CAPP2 In-channel   ■ CAPP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



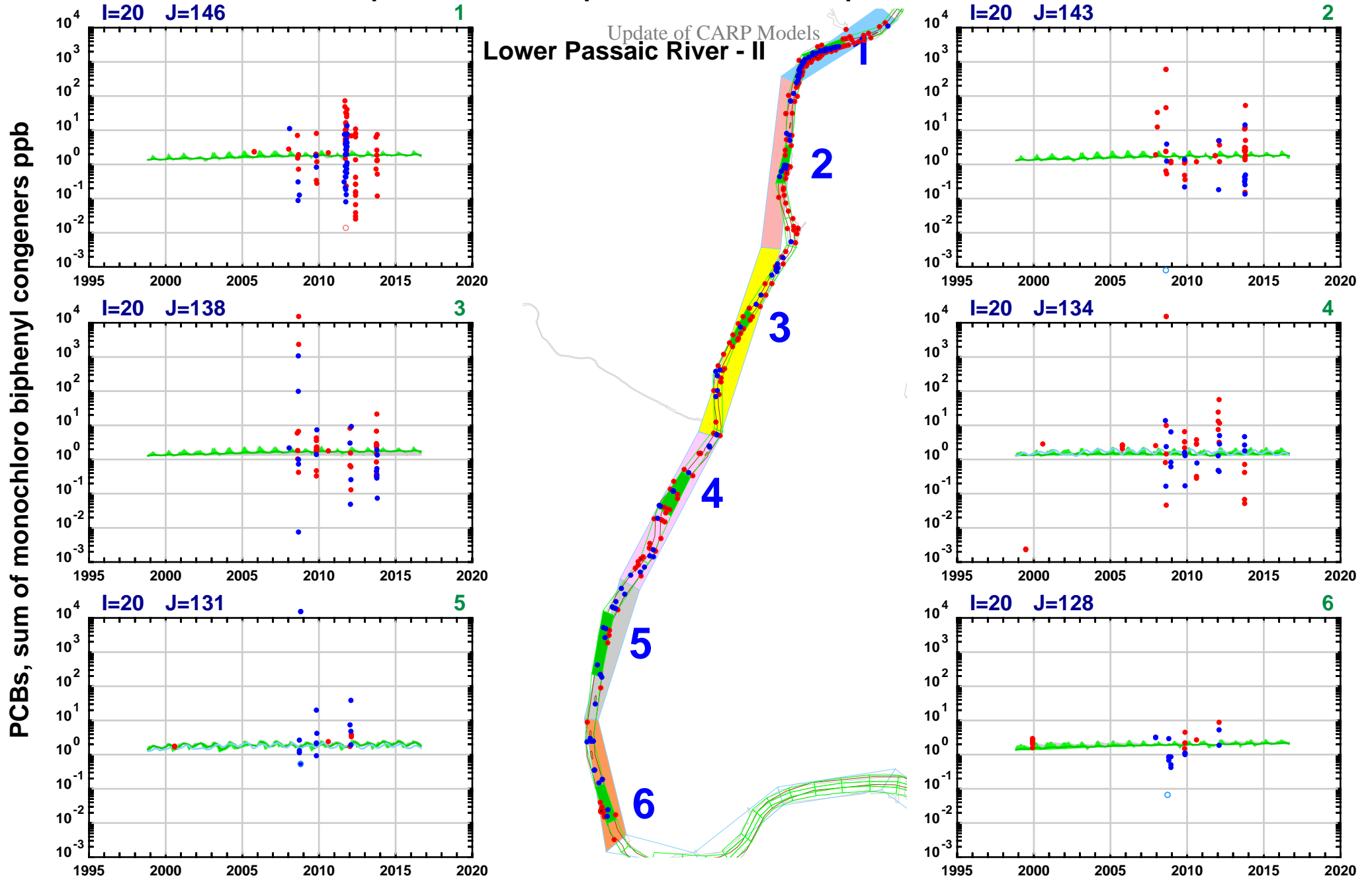
RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

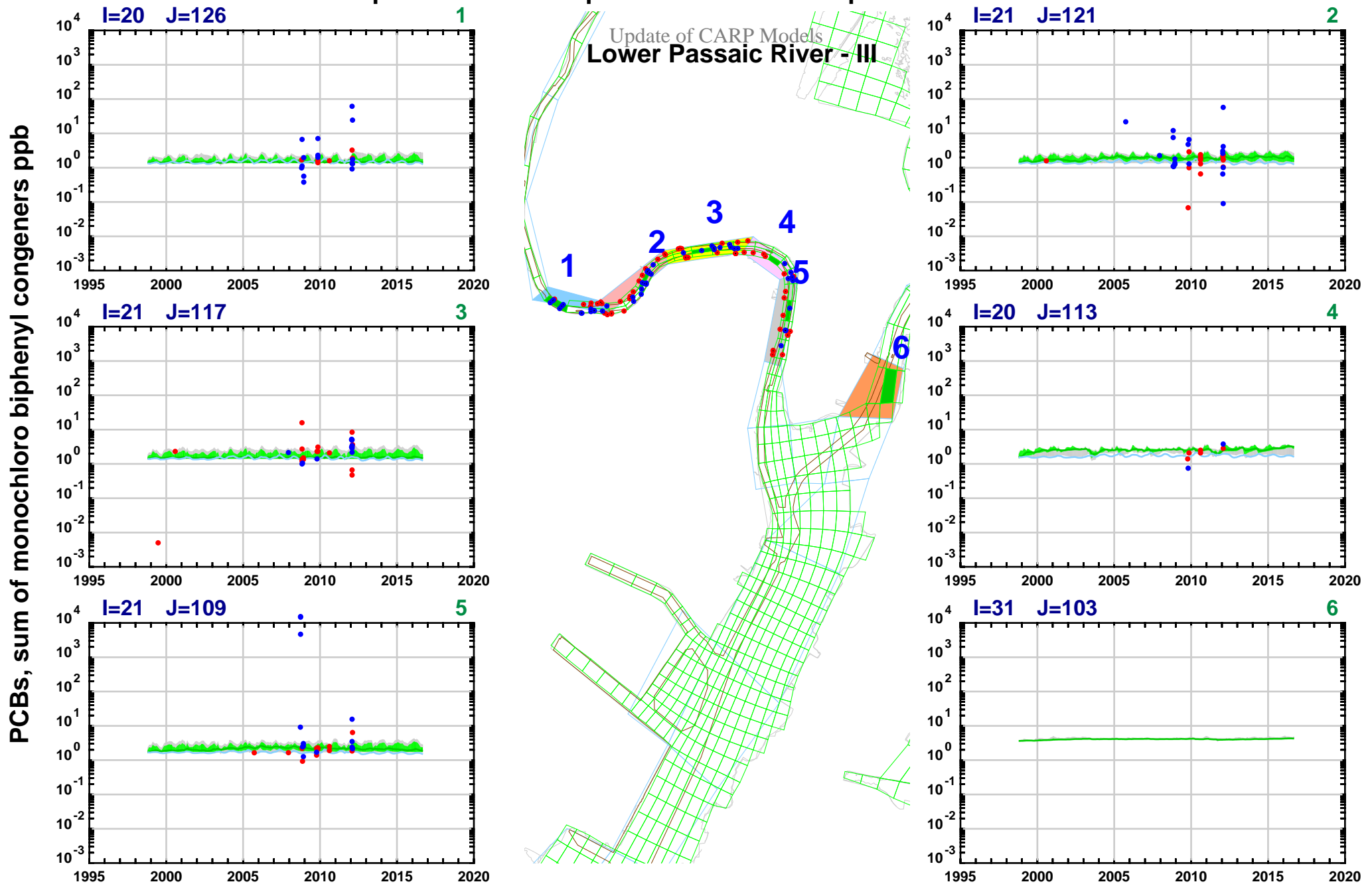


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

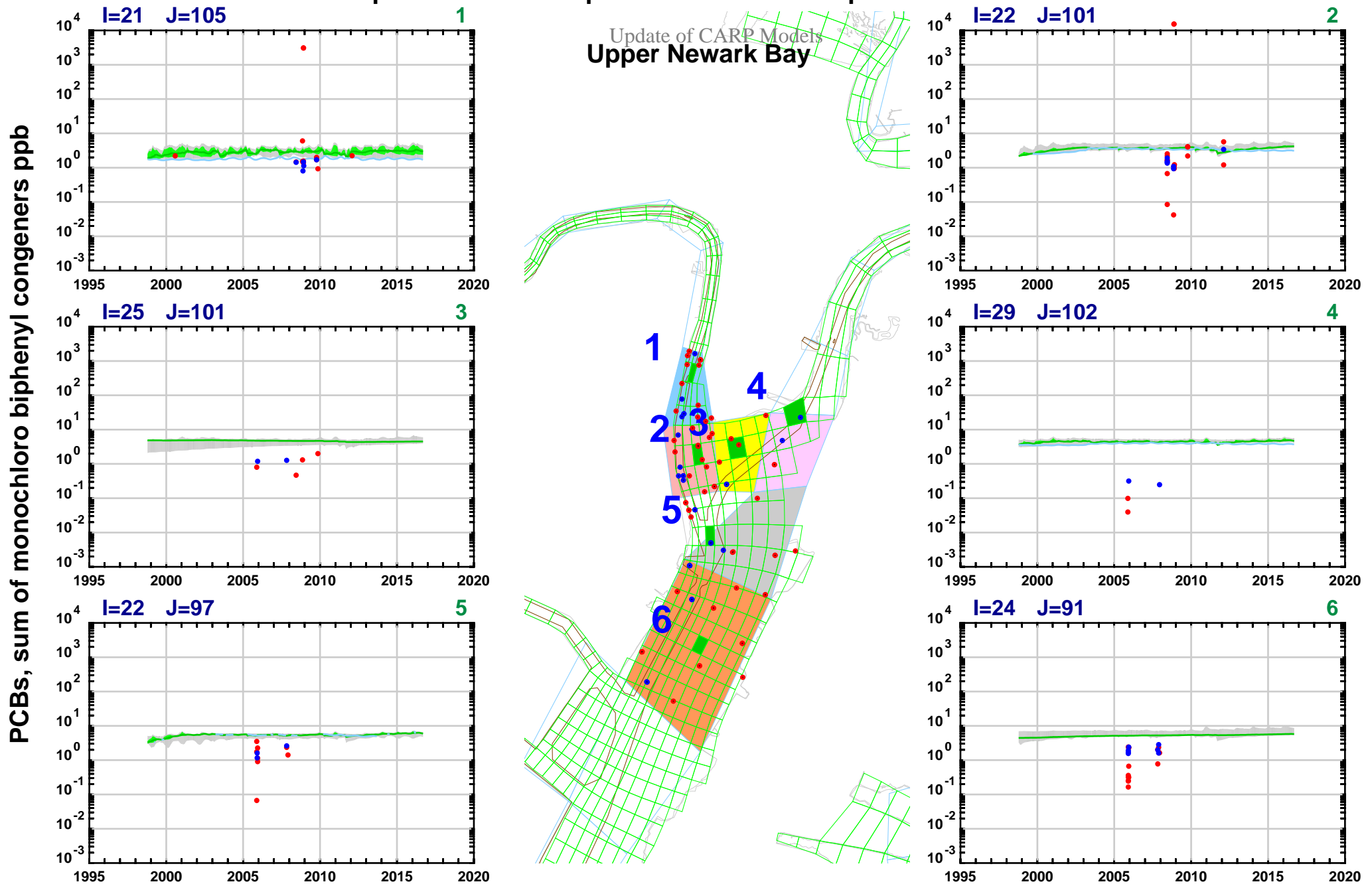


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

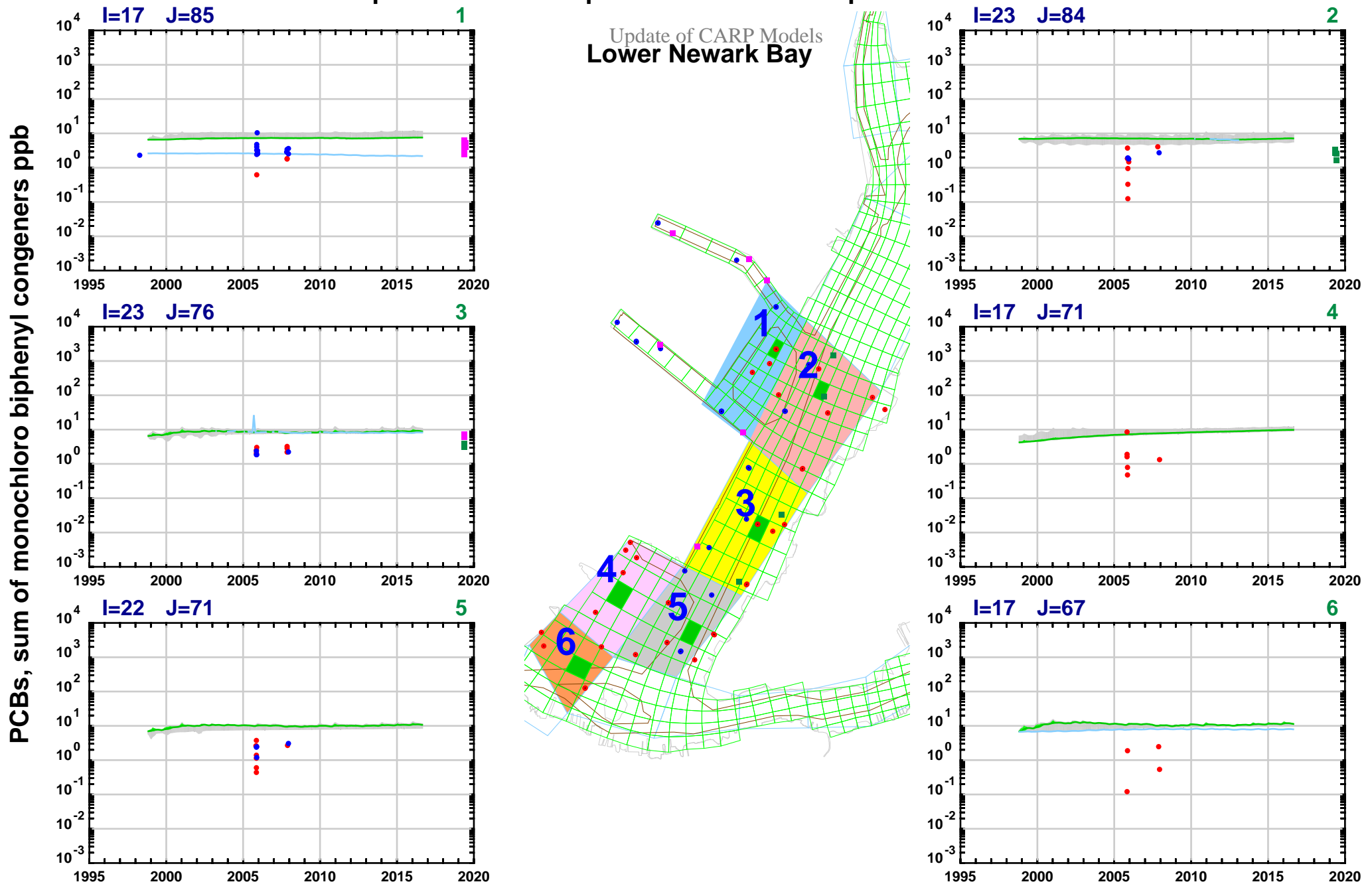


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



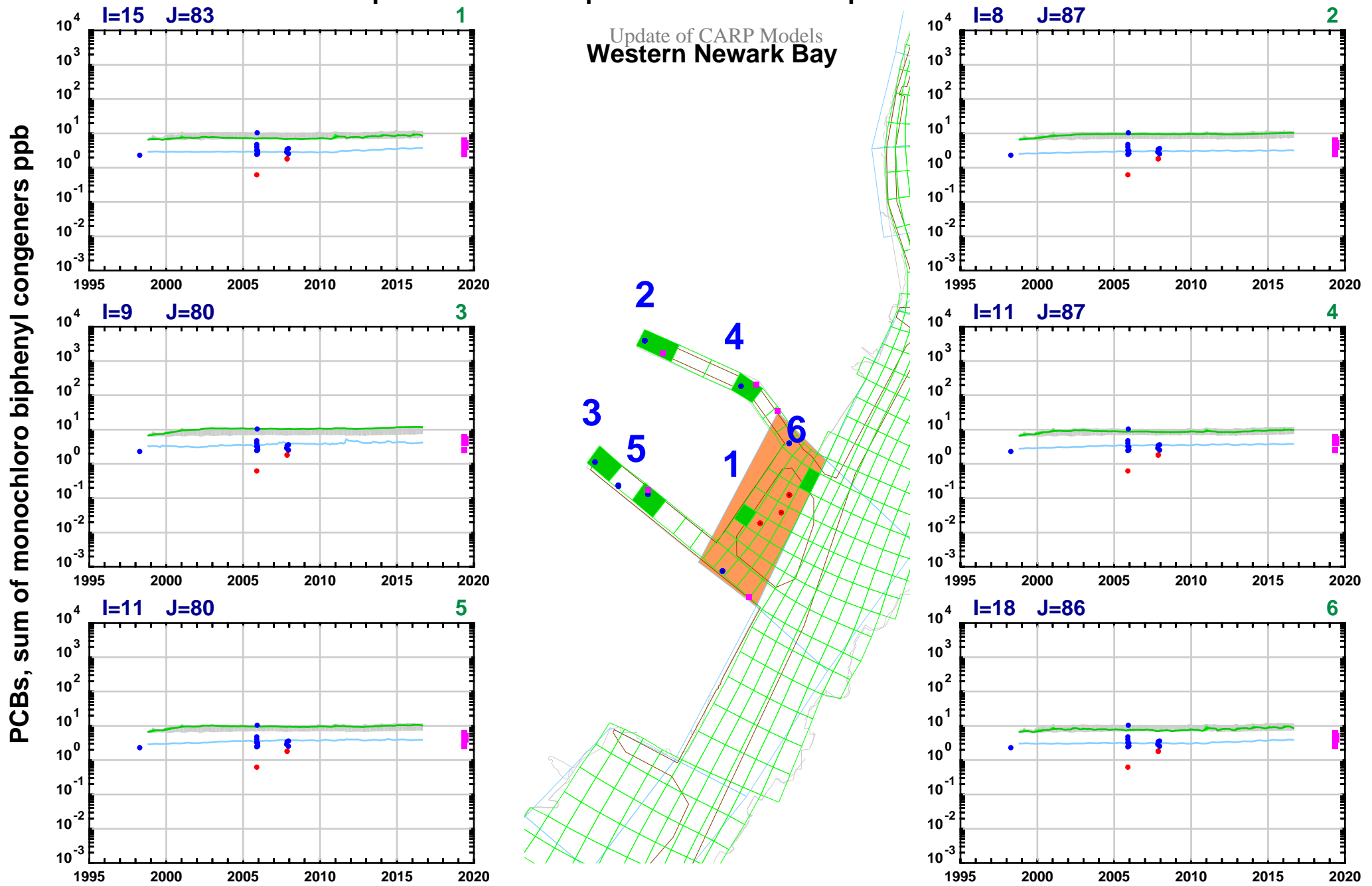
Update of CARP Models  
Lower Newark Bay

RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



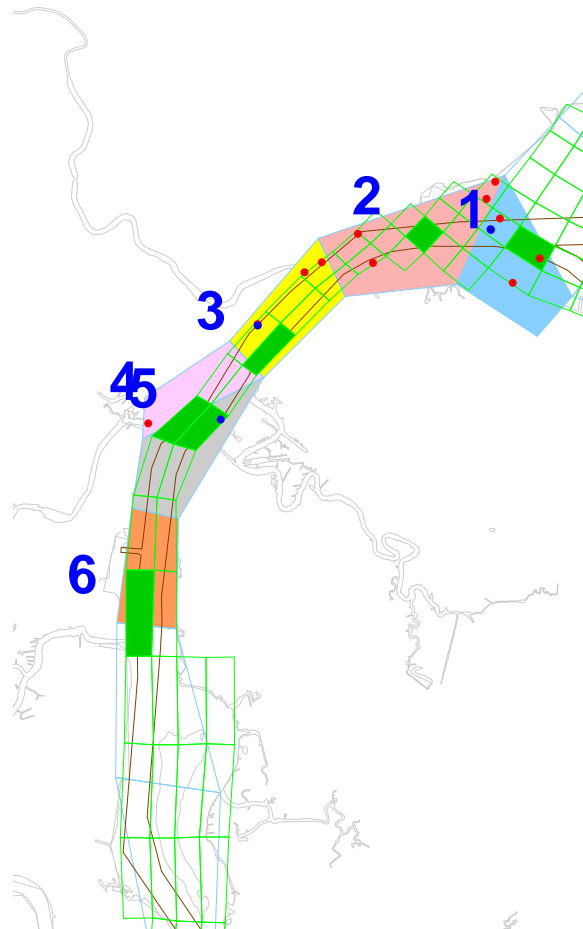
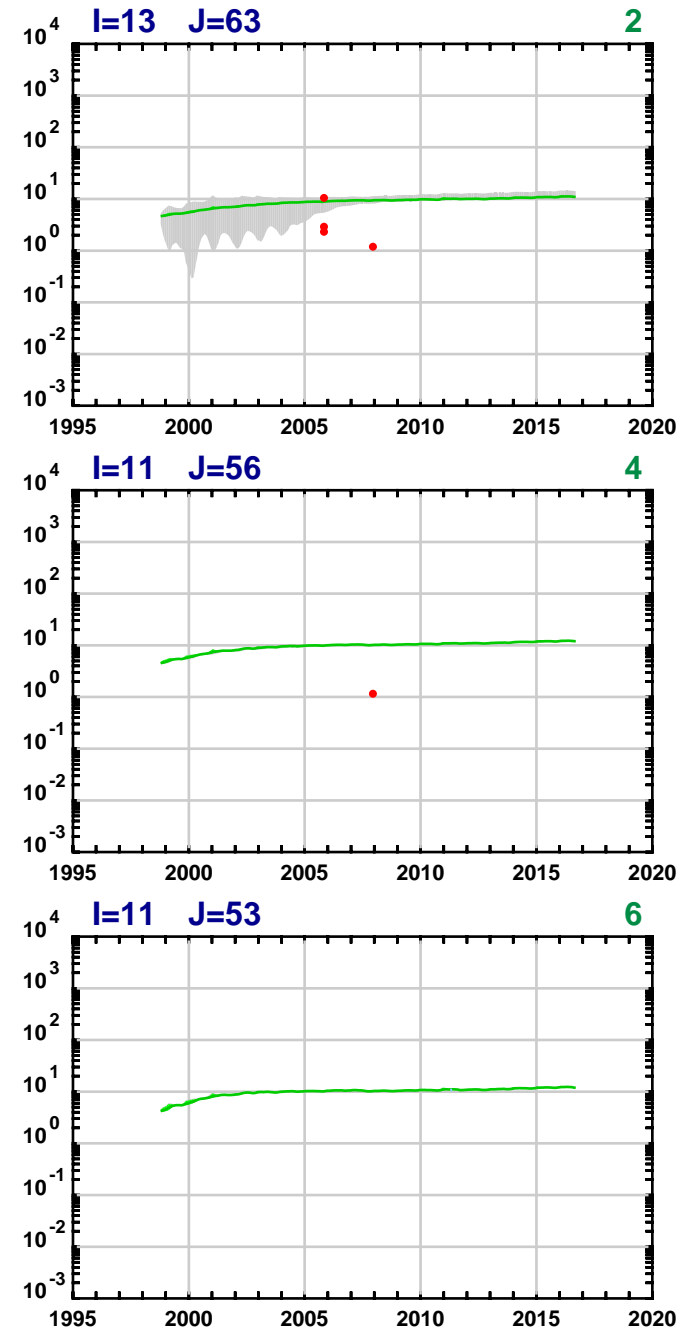
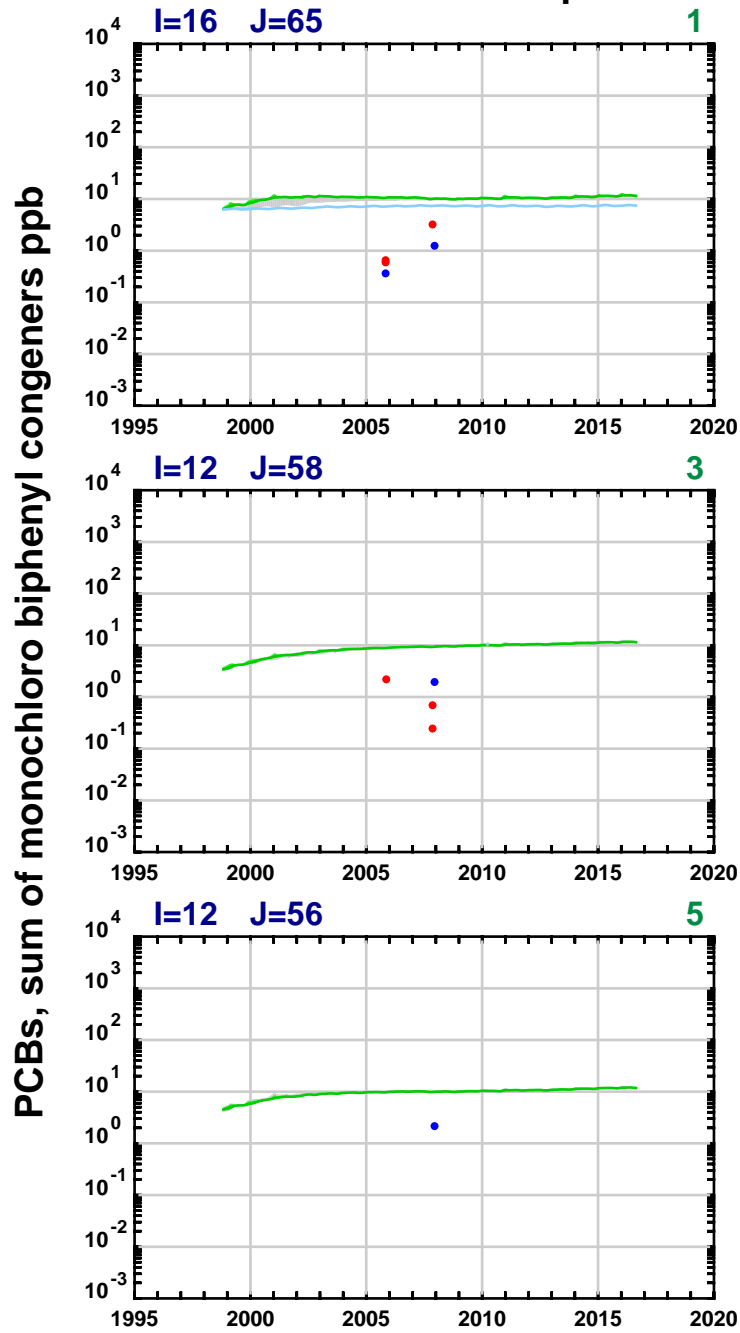
**RUN18\_S2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1



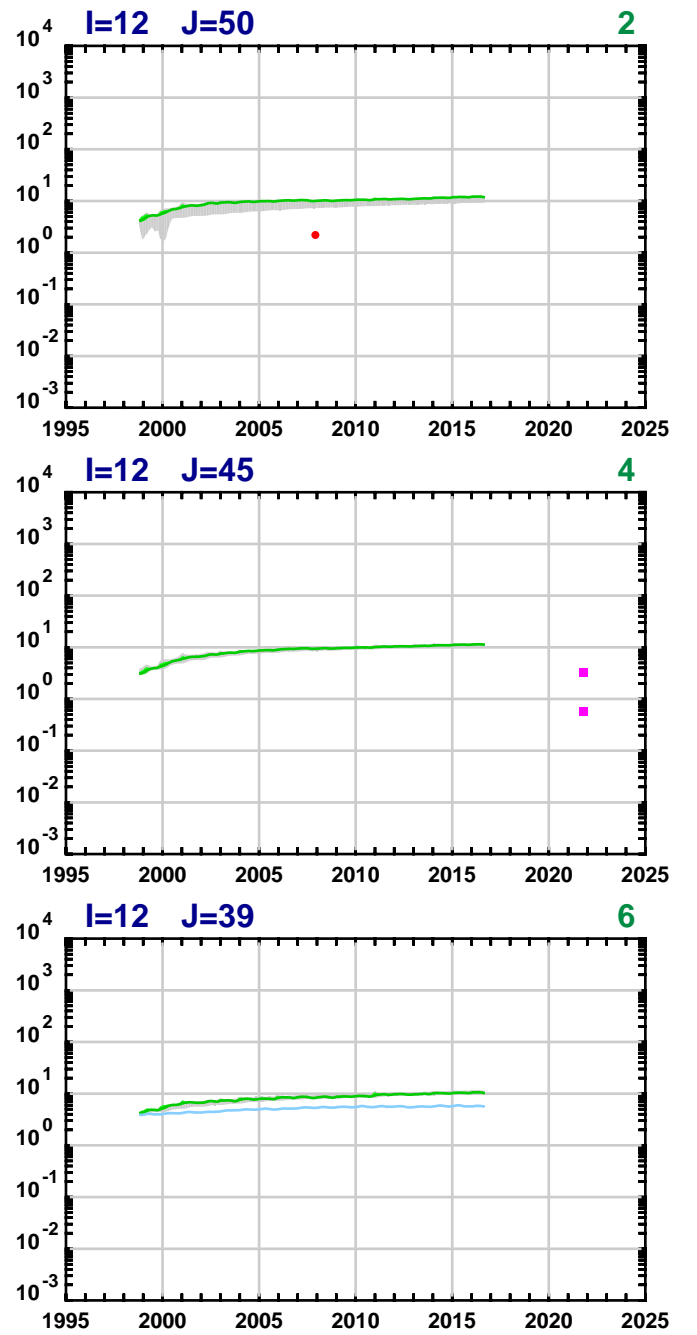
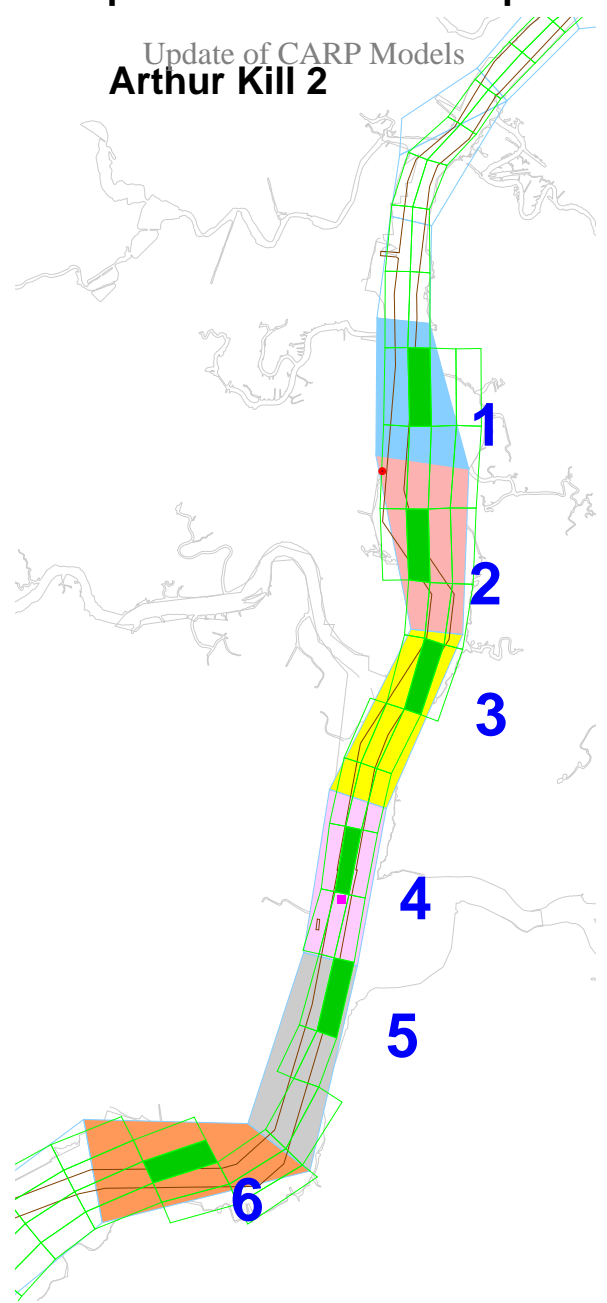
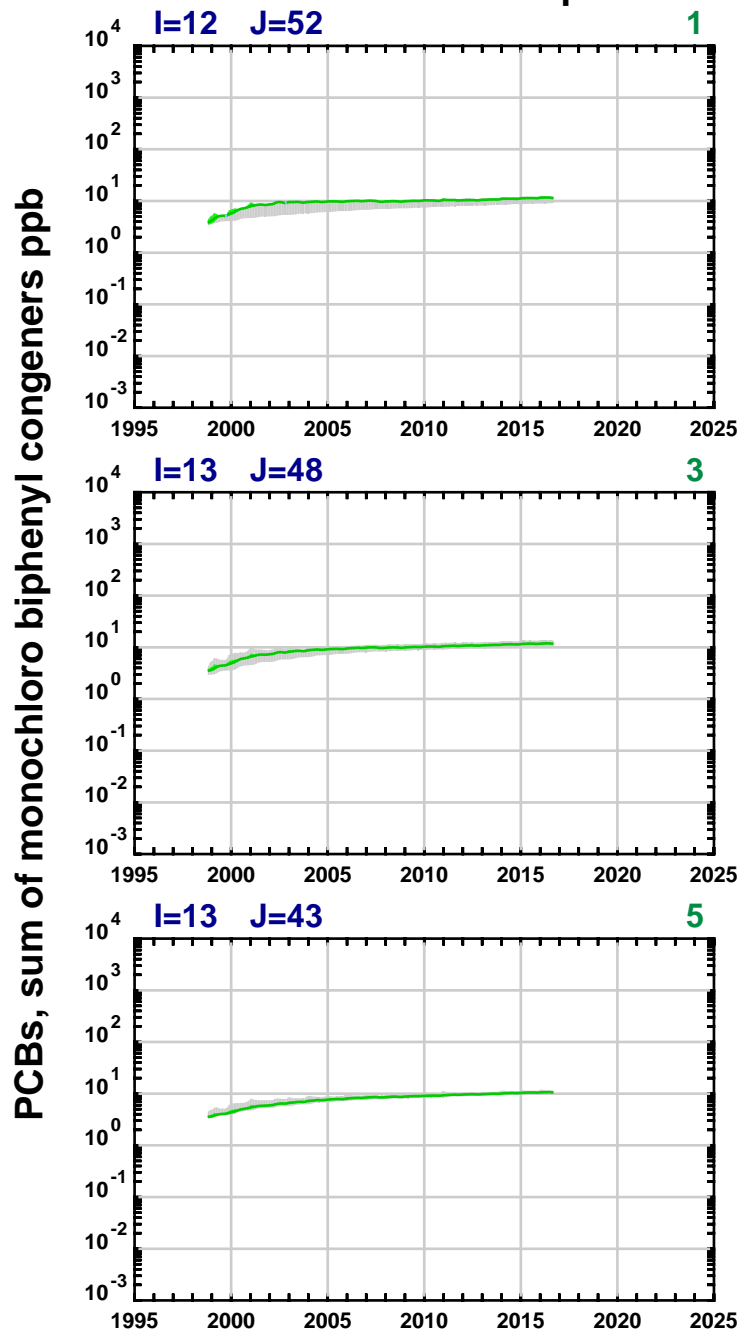
PCBs, sum of monochloro biphenyl congeners ppb

RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



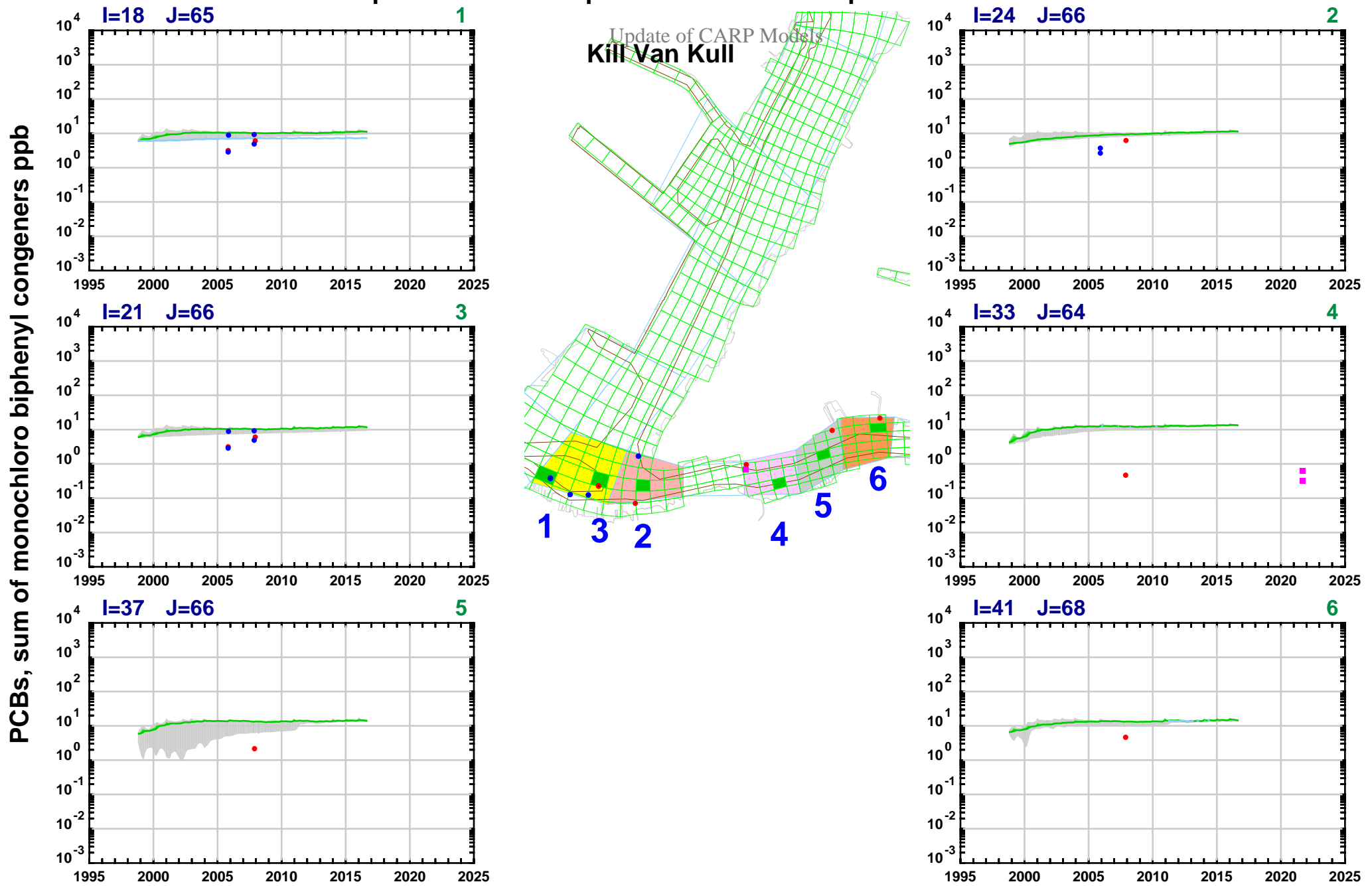
RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

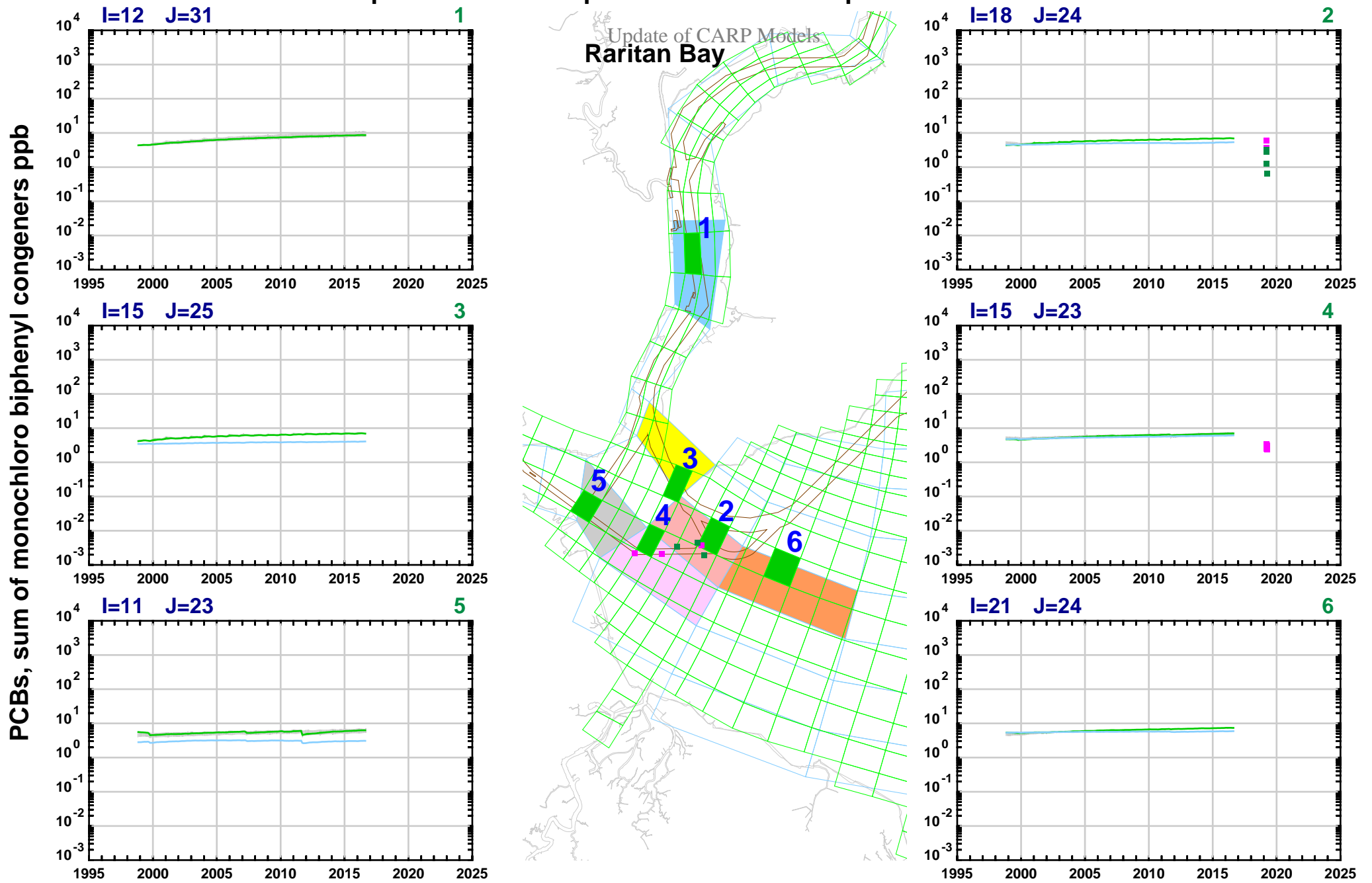


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

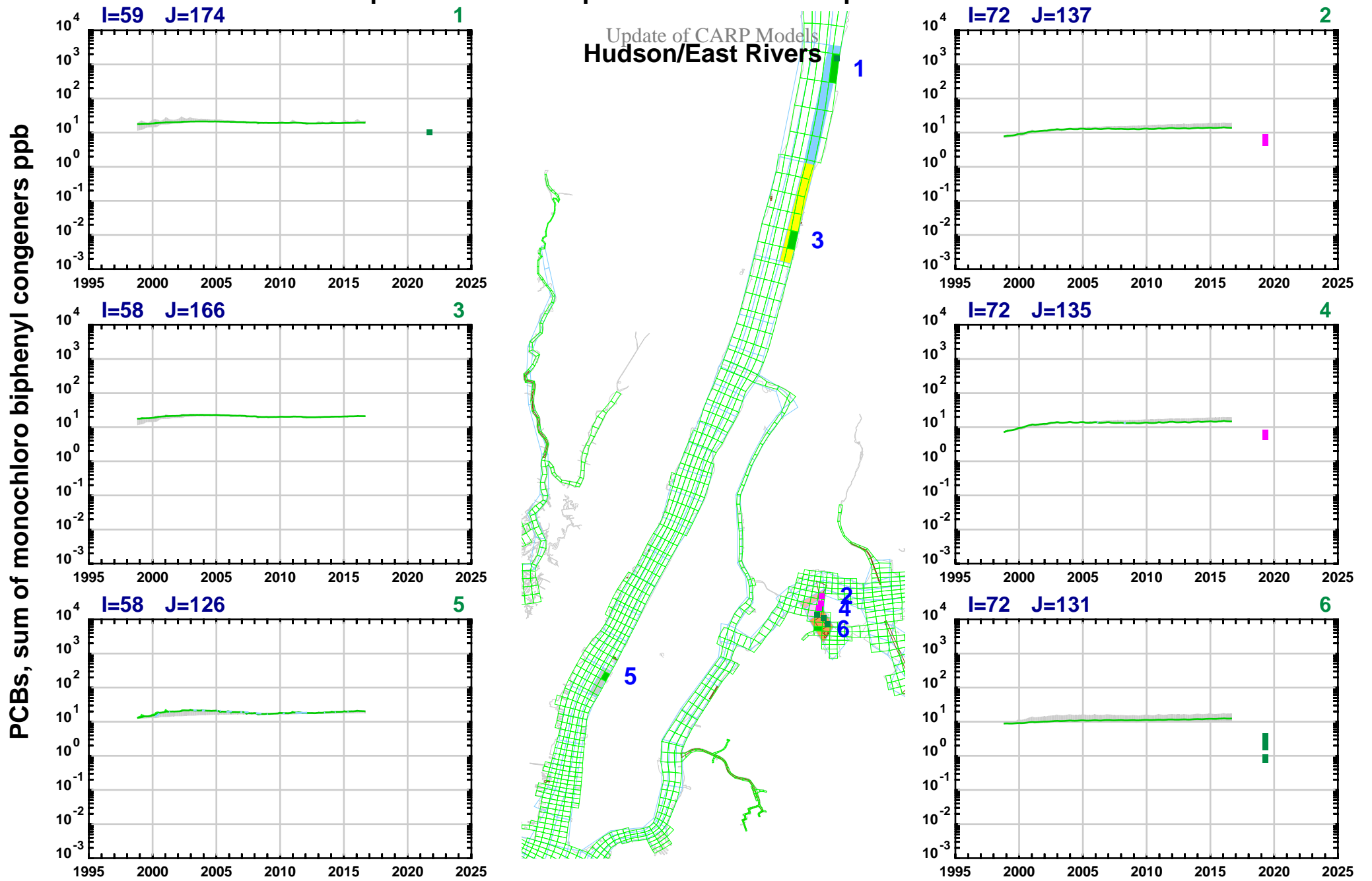


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

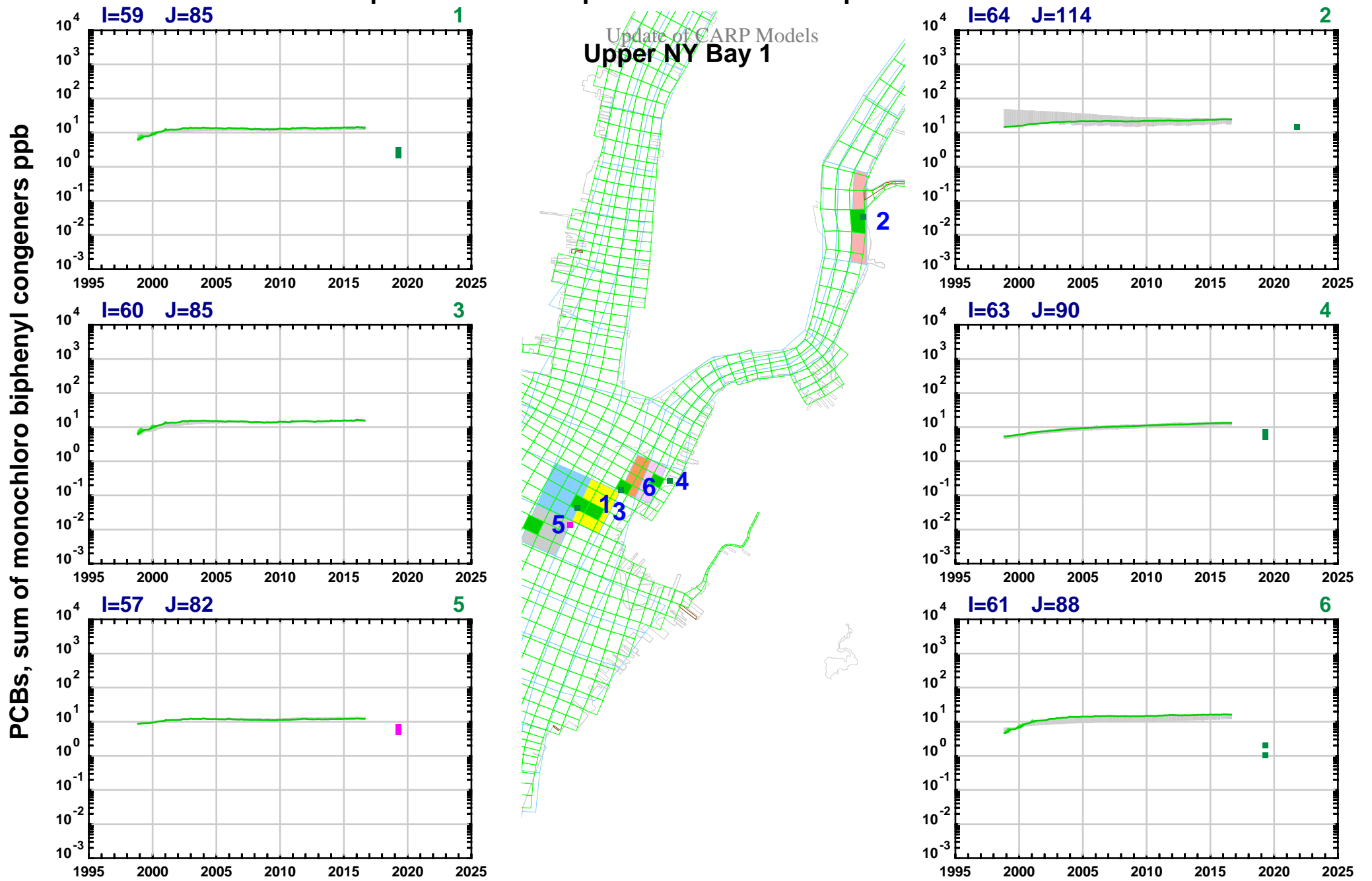


**RUN18\_S2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

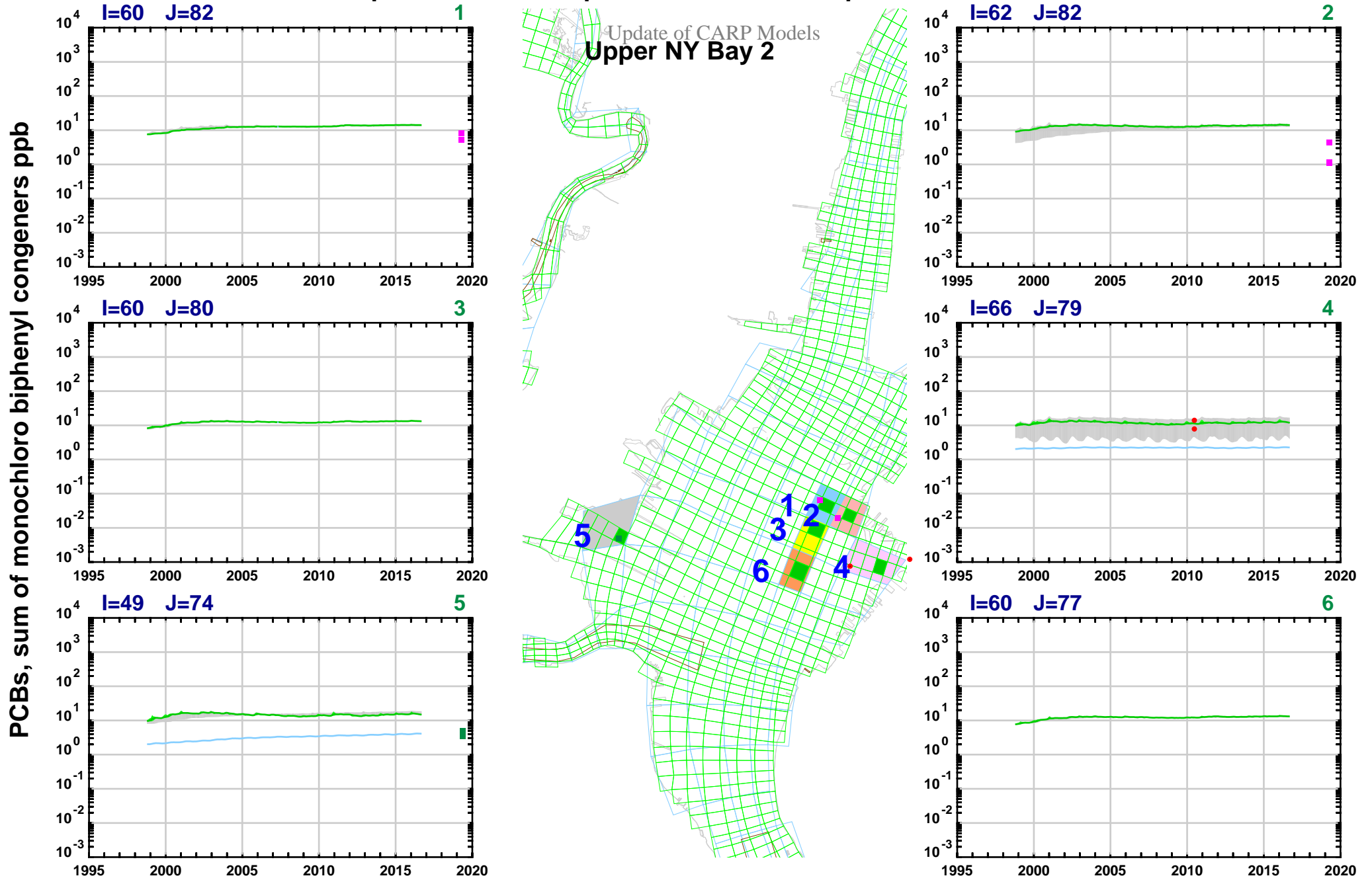


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

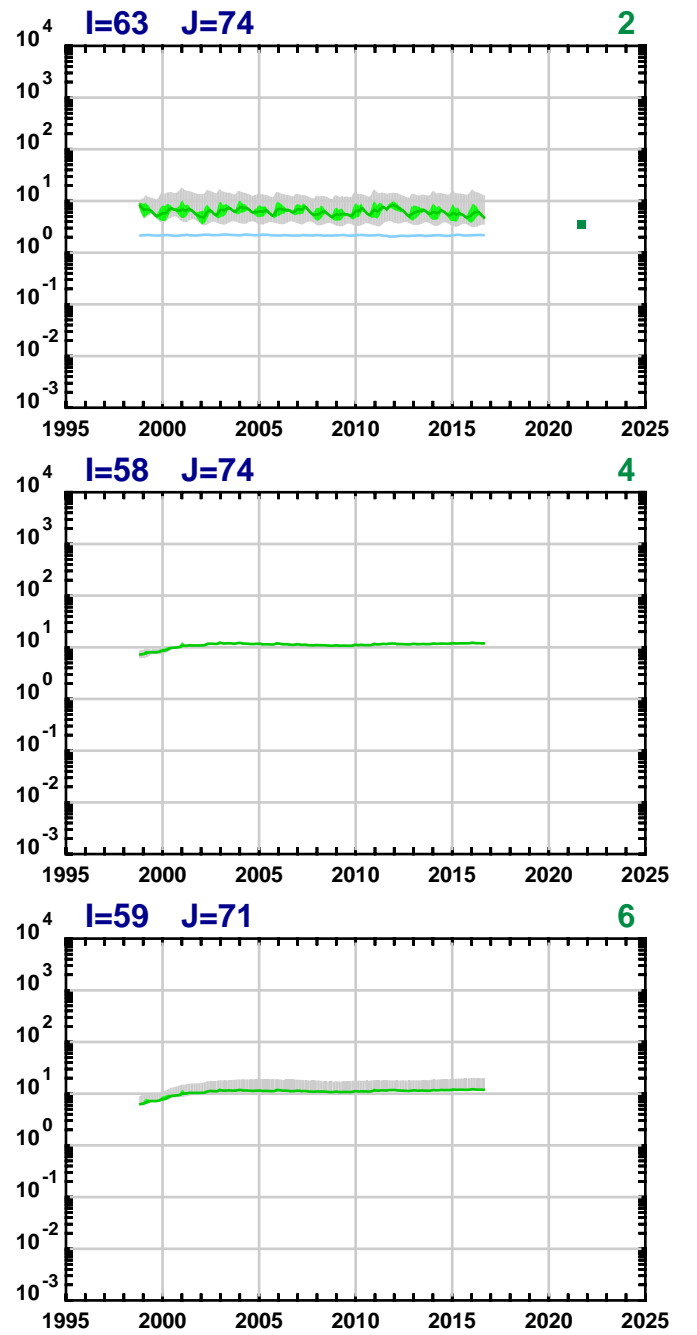
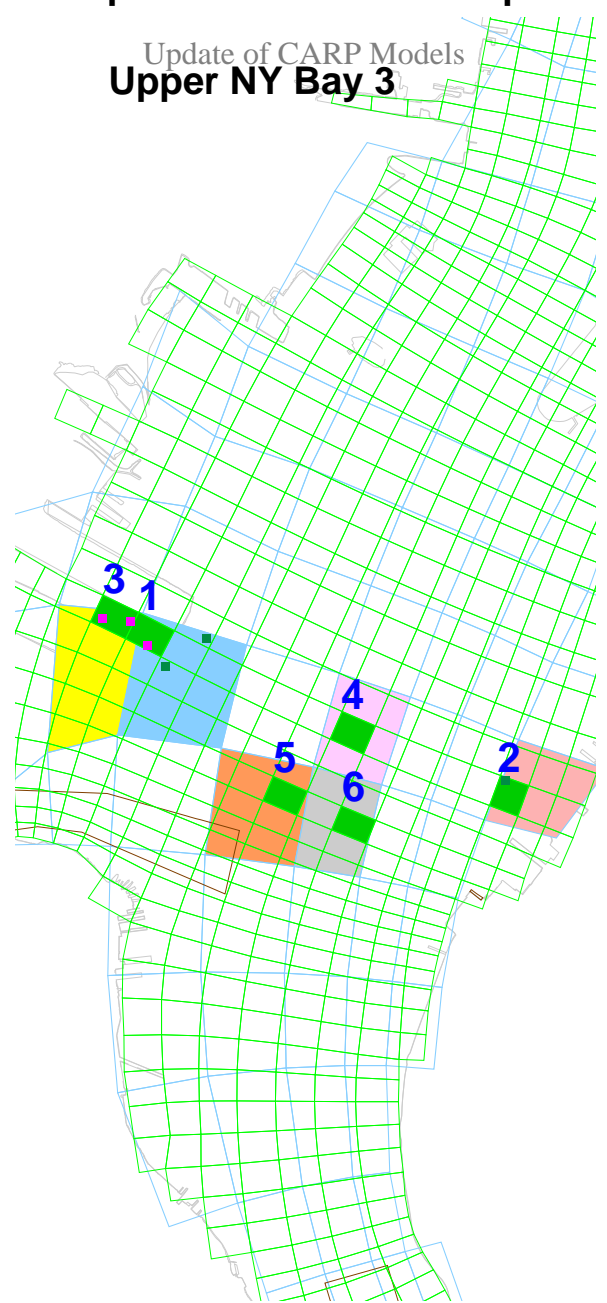
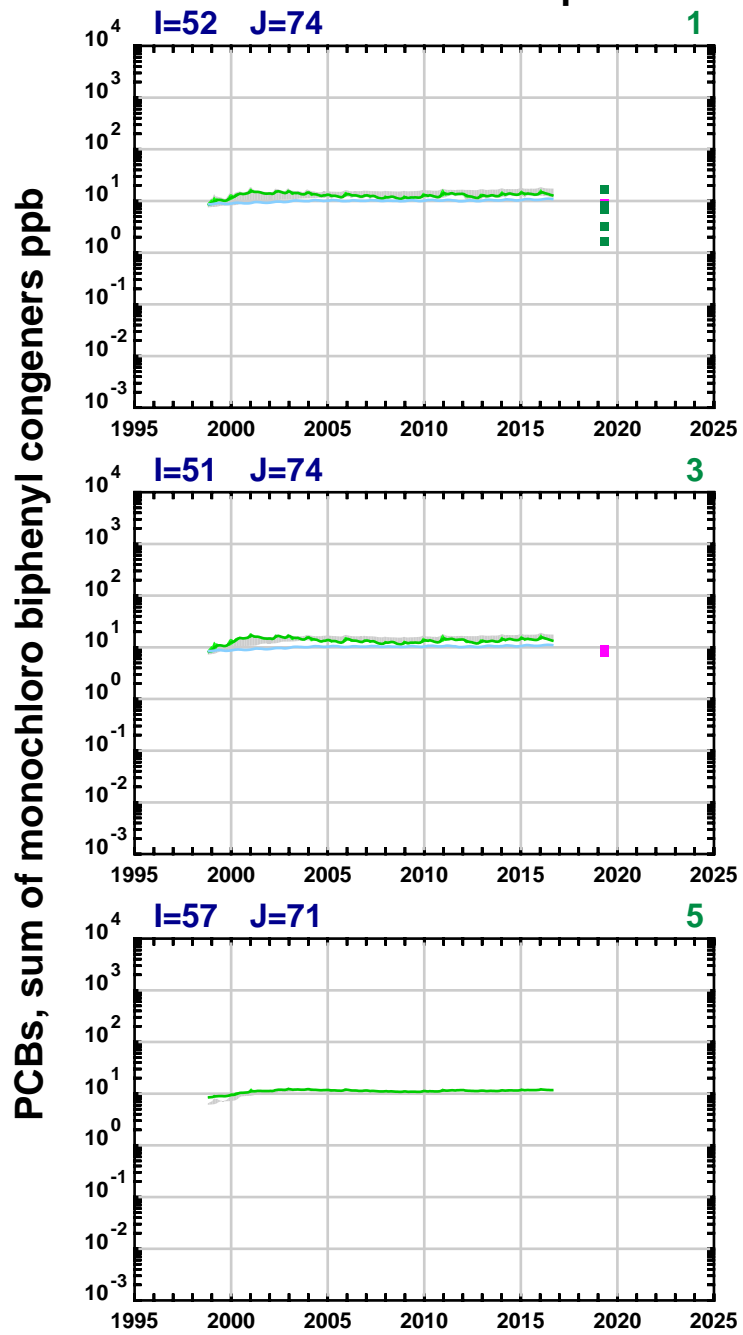


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



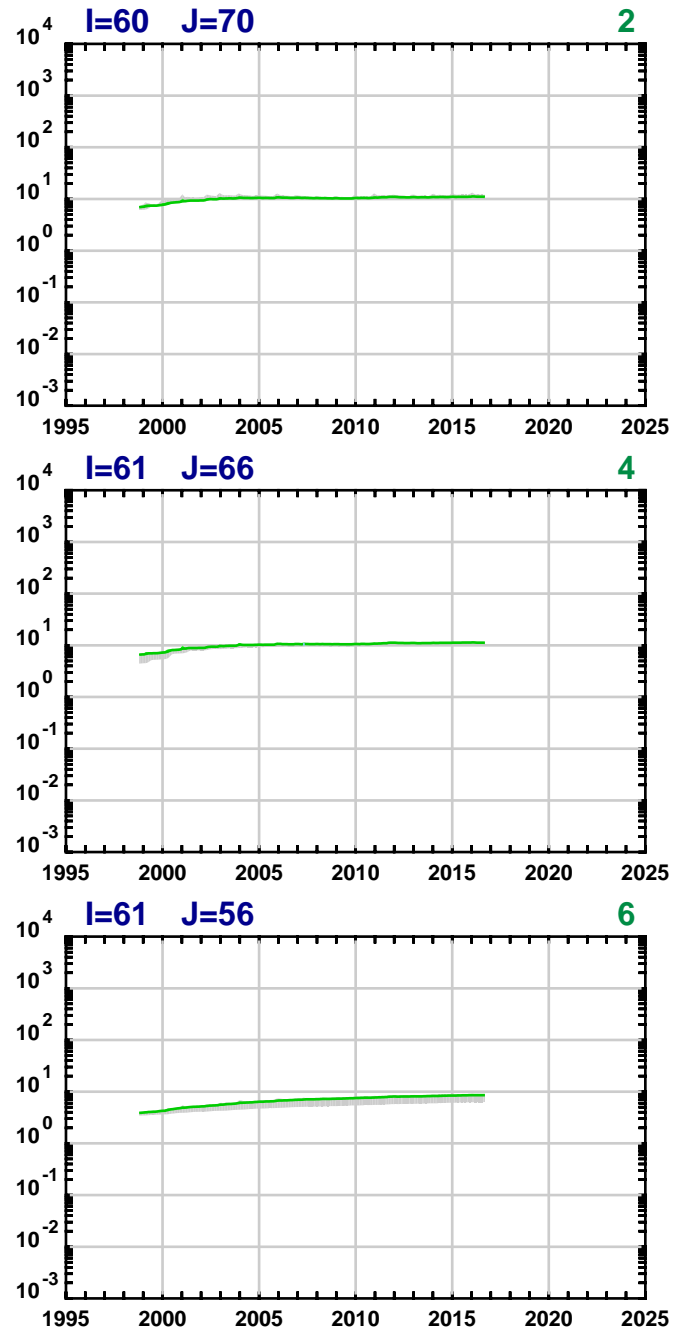
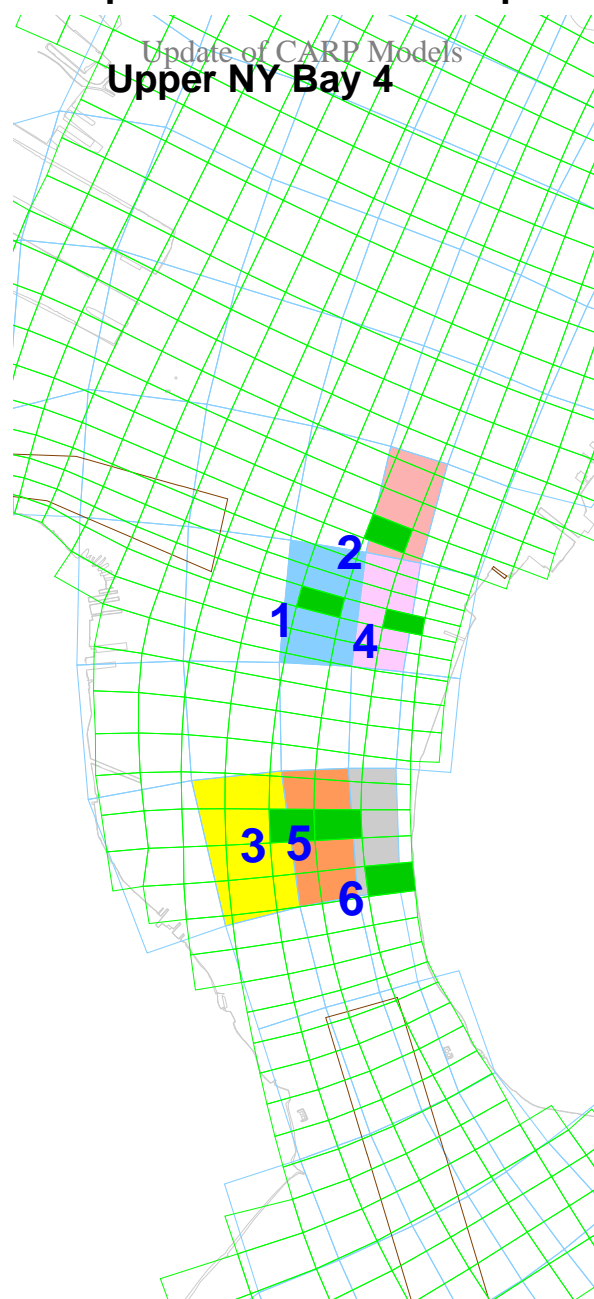
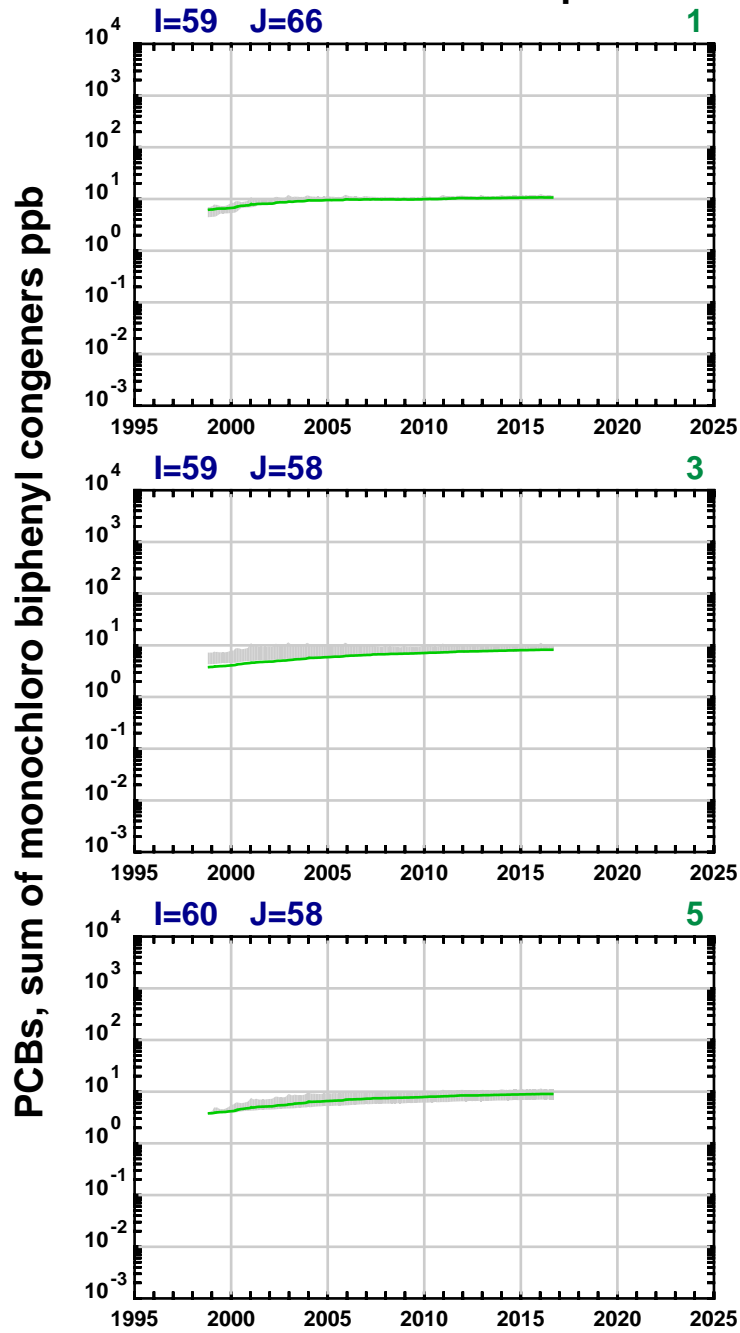
RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



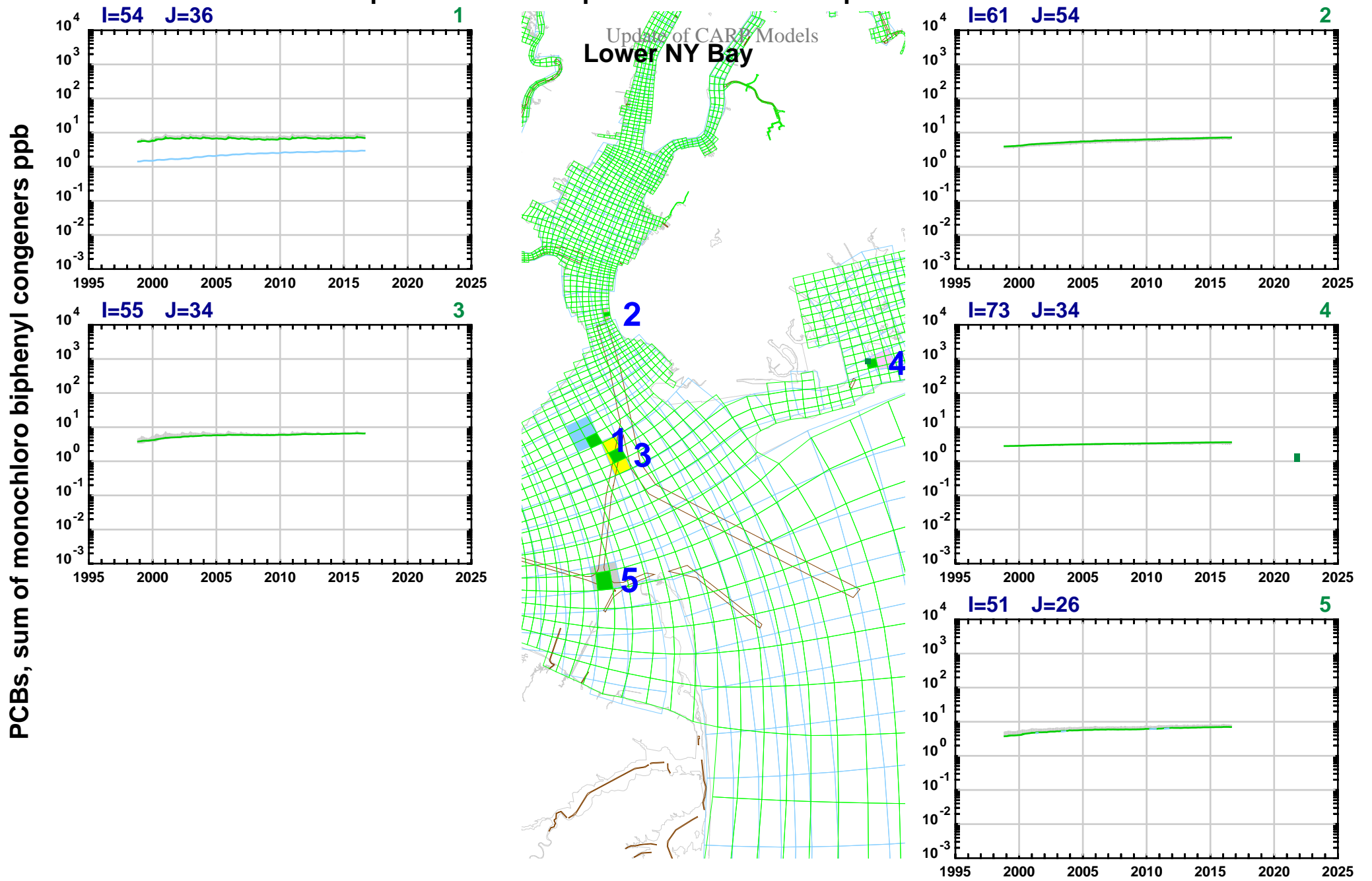
RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

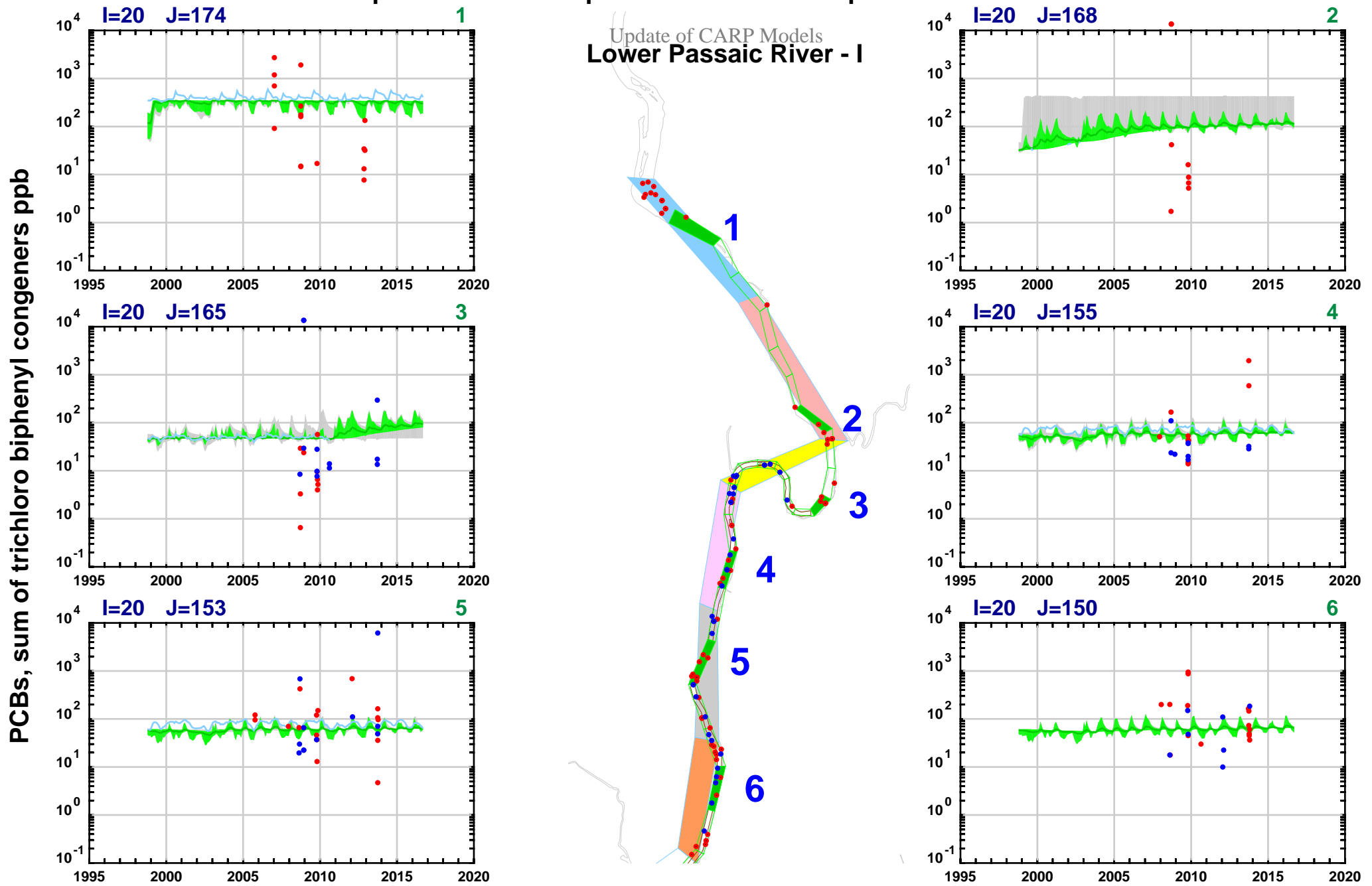


**RUN18\_S2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



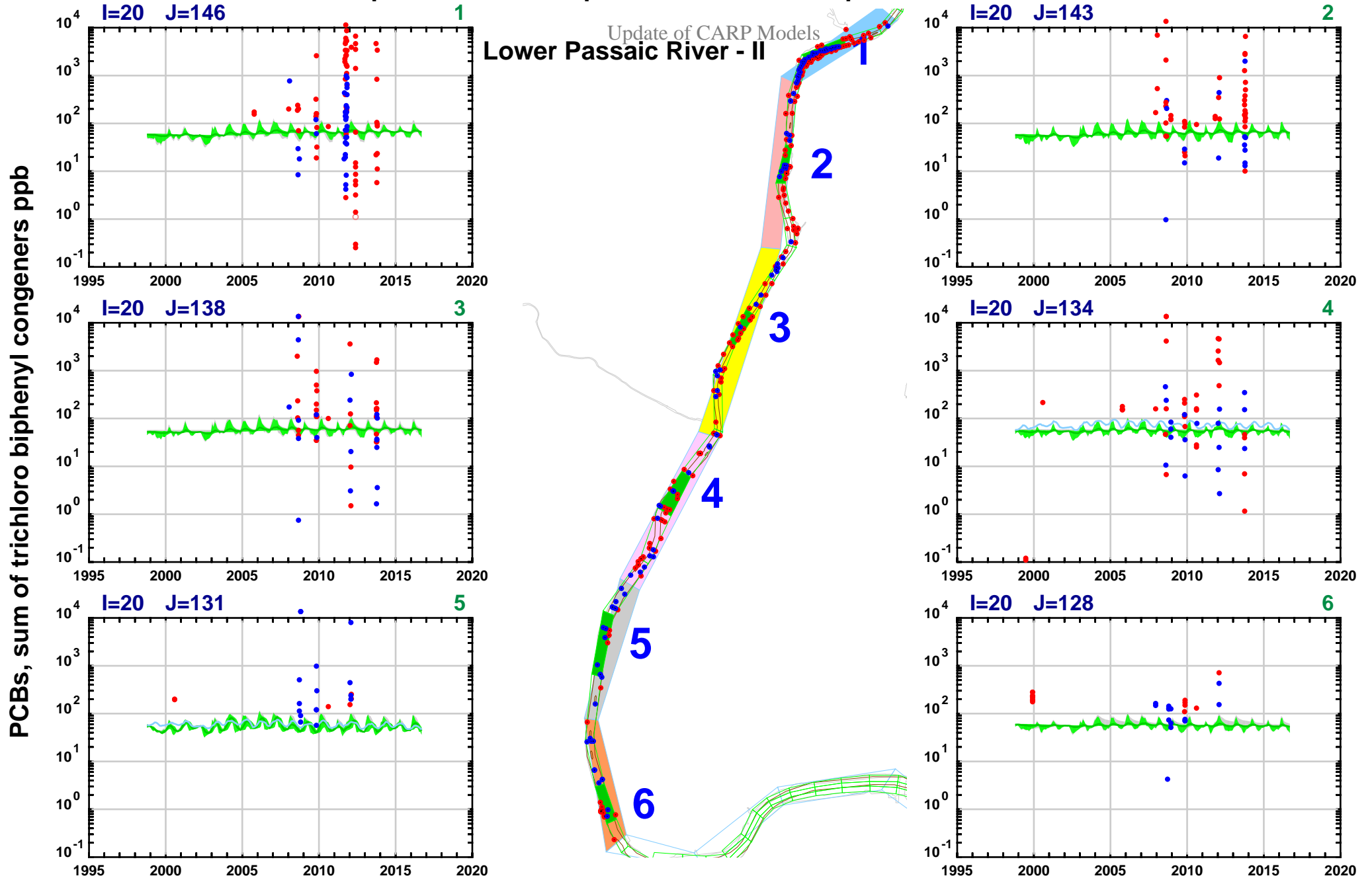
Update of CARP Models  
Lower Passaic River - I

RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

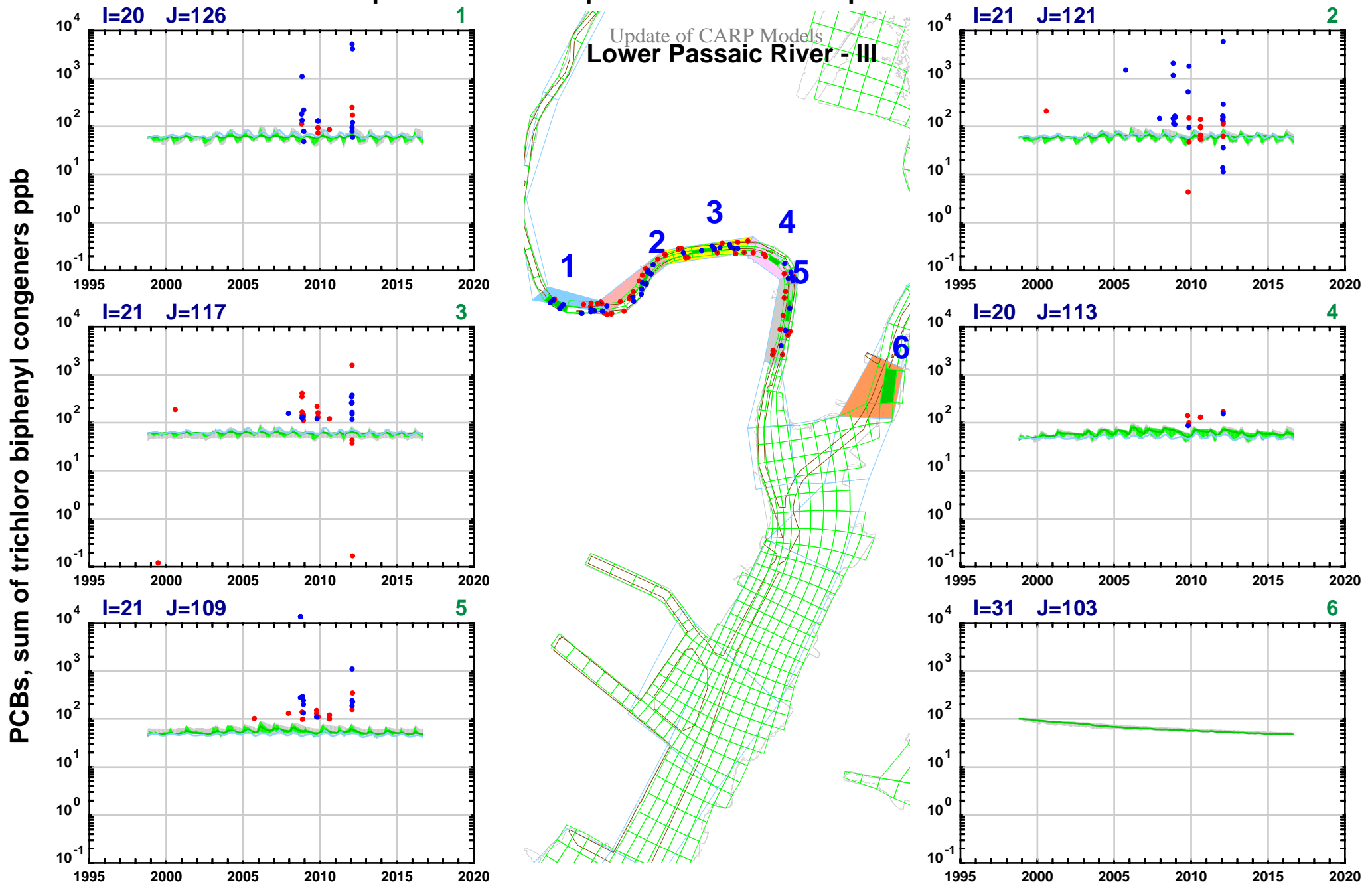


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

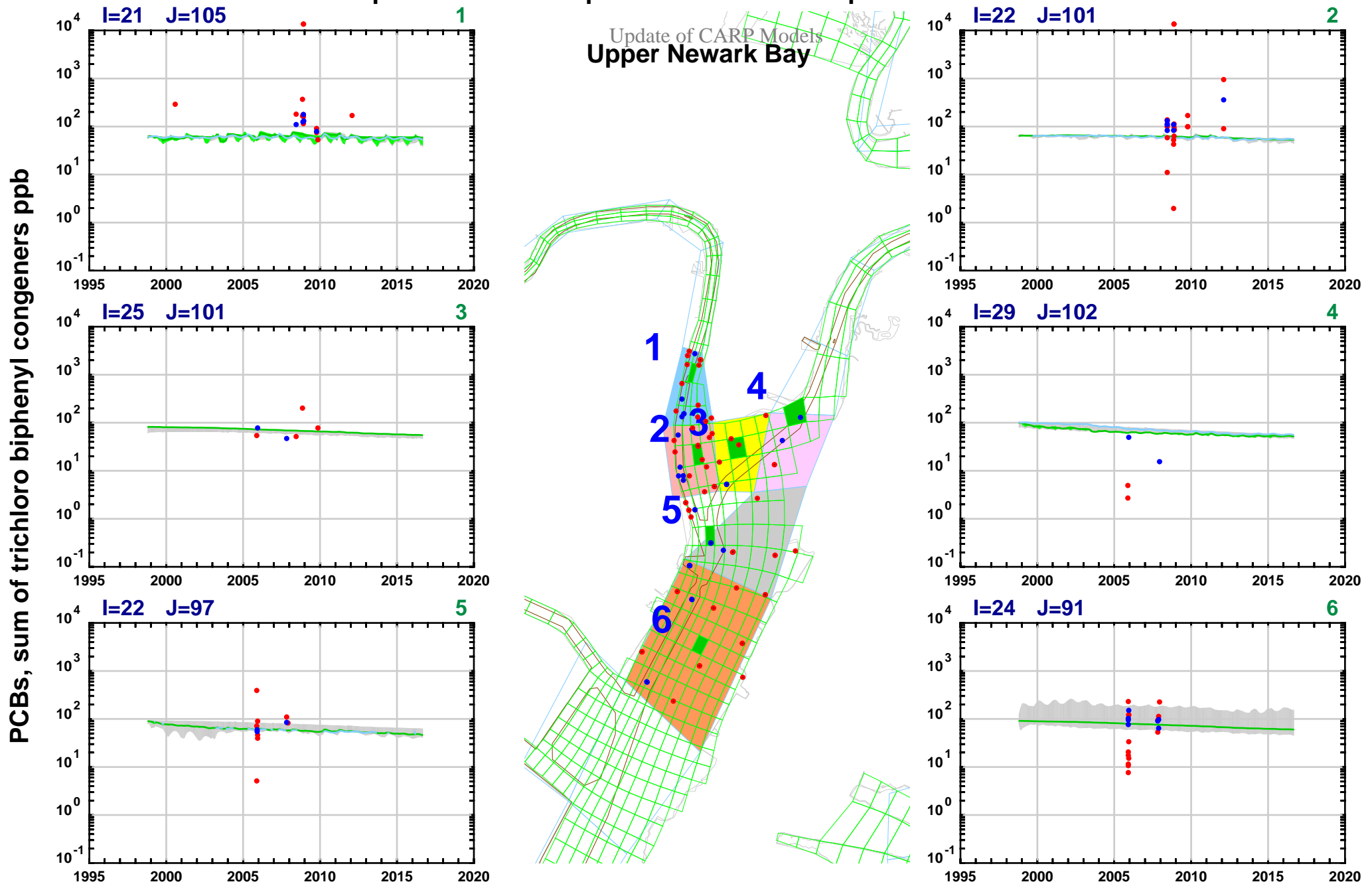


**RUN18\_S2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

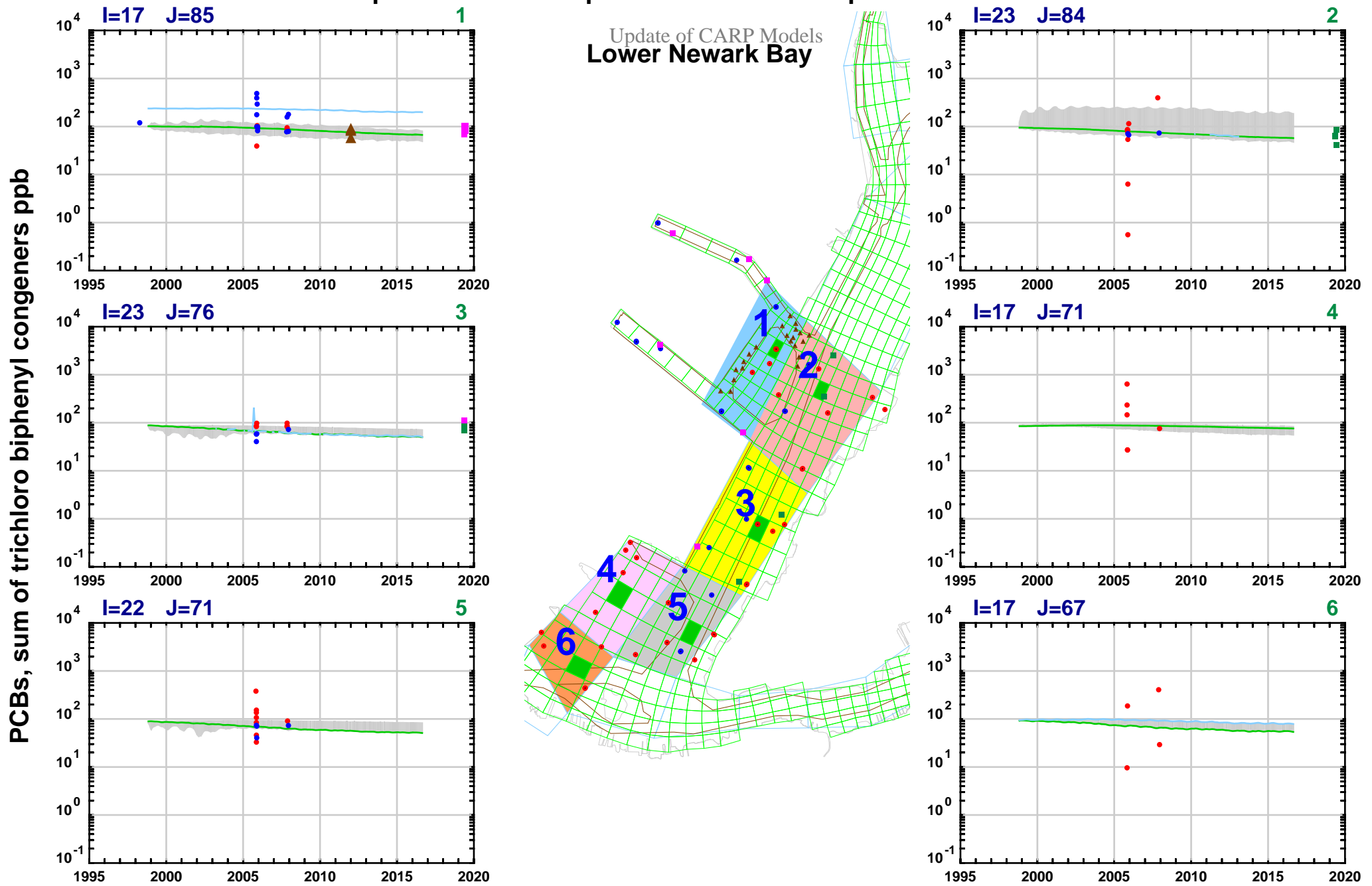


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

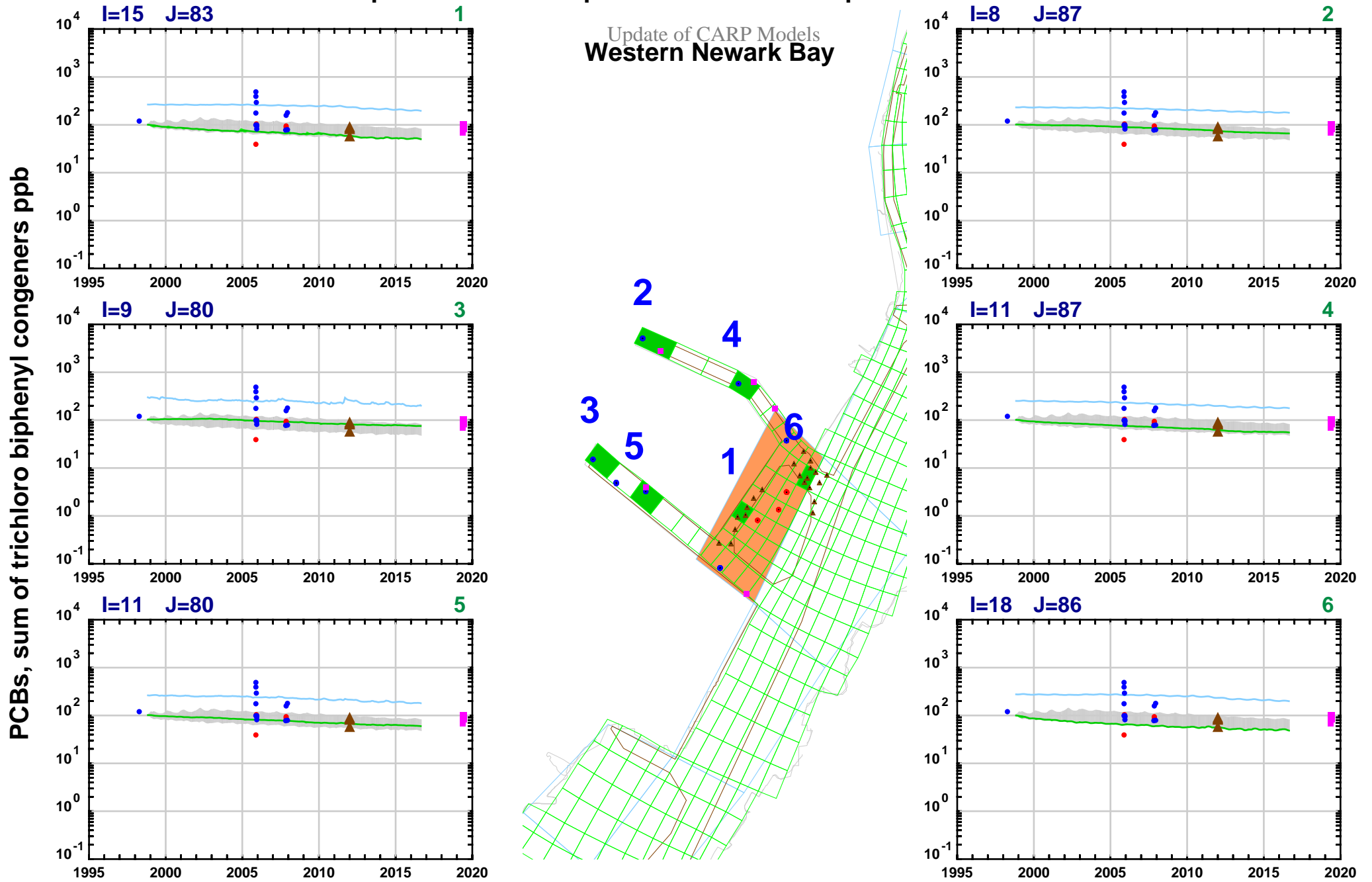


**RUN18\_S2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



**RUN18\_S2**

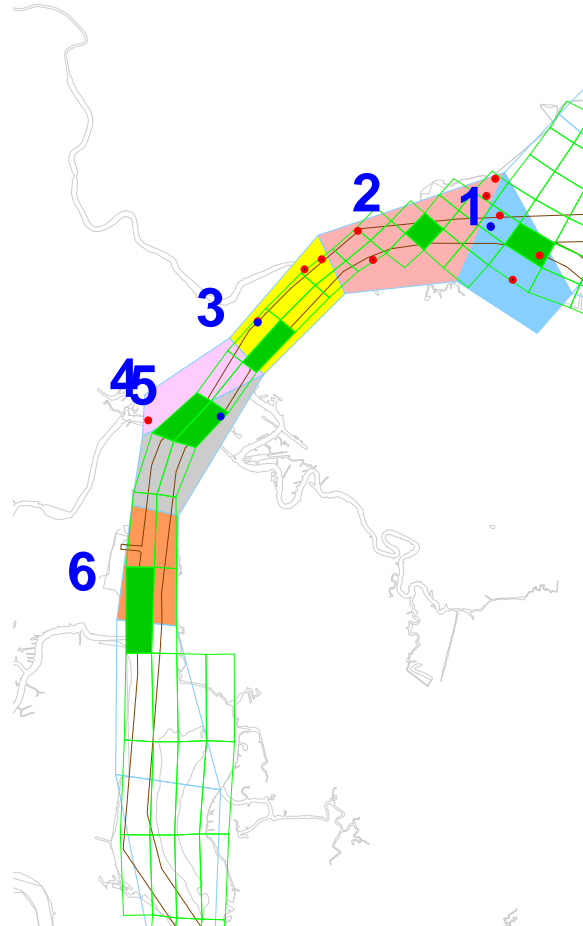
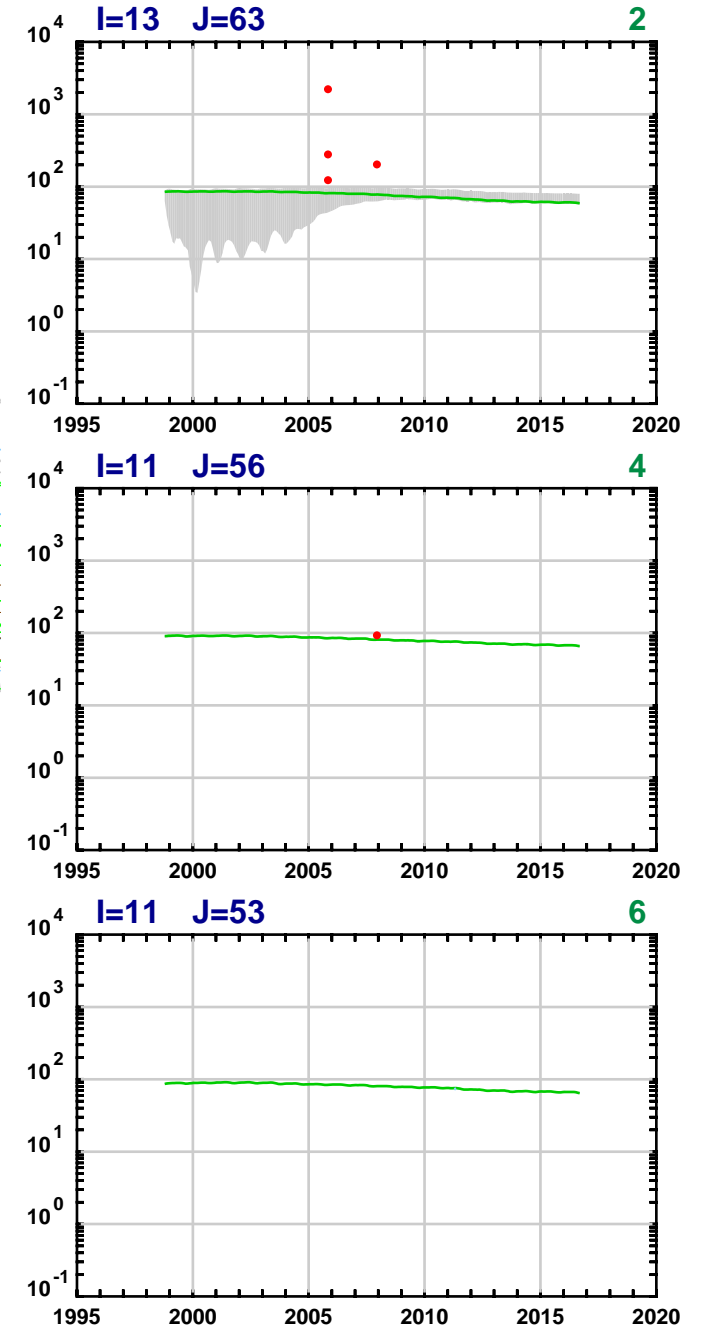
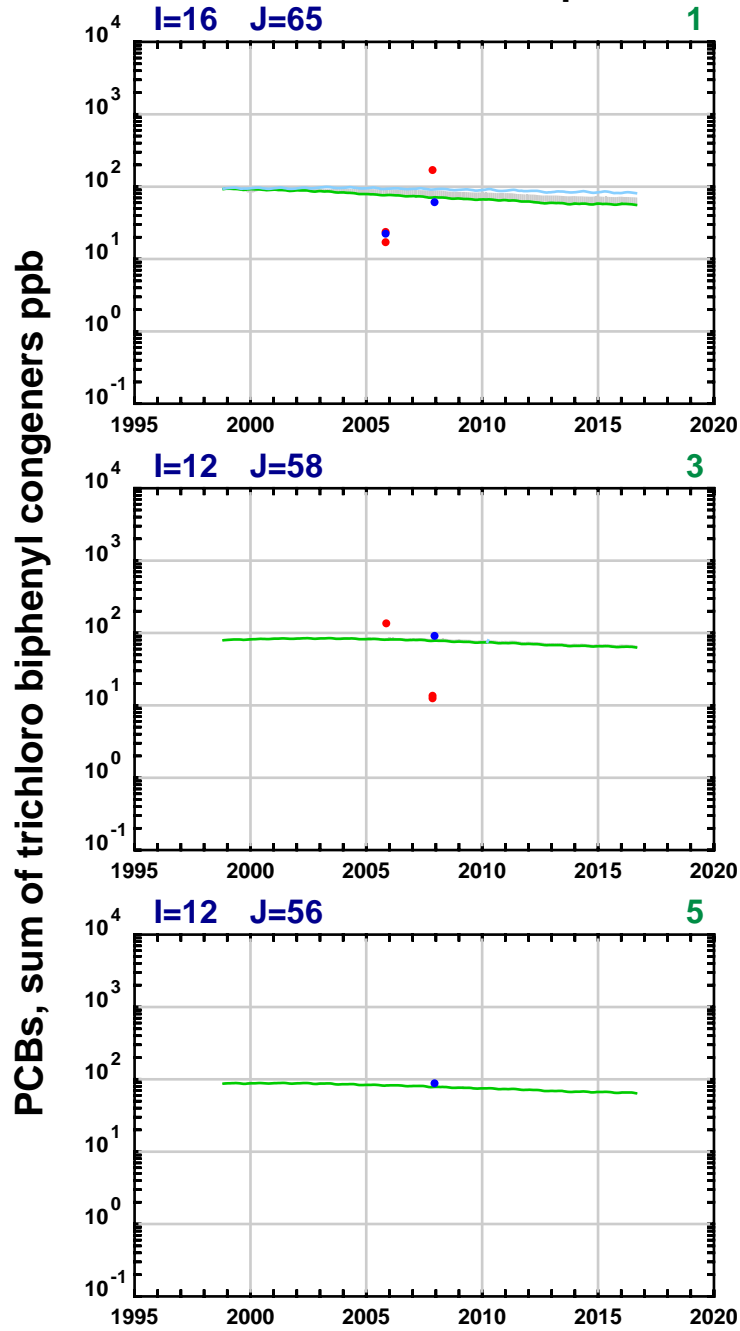
**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

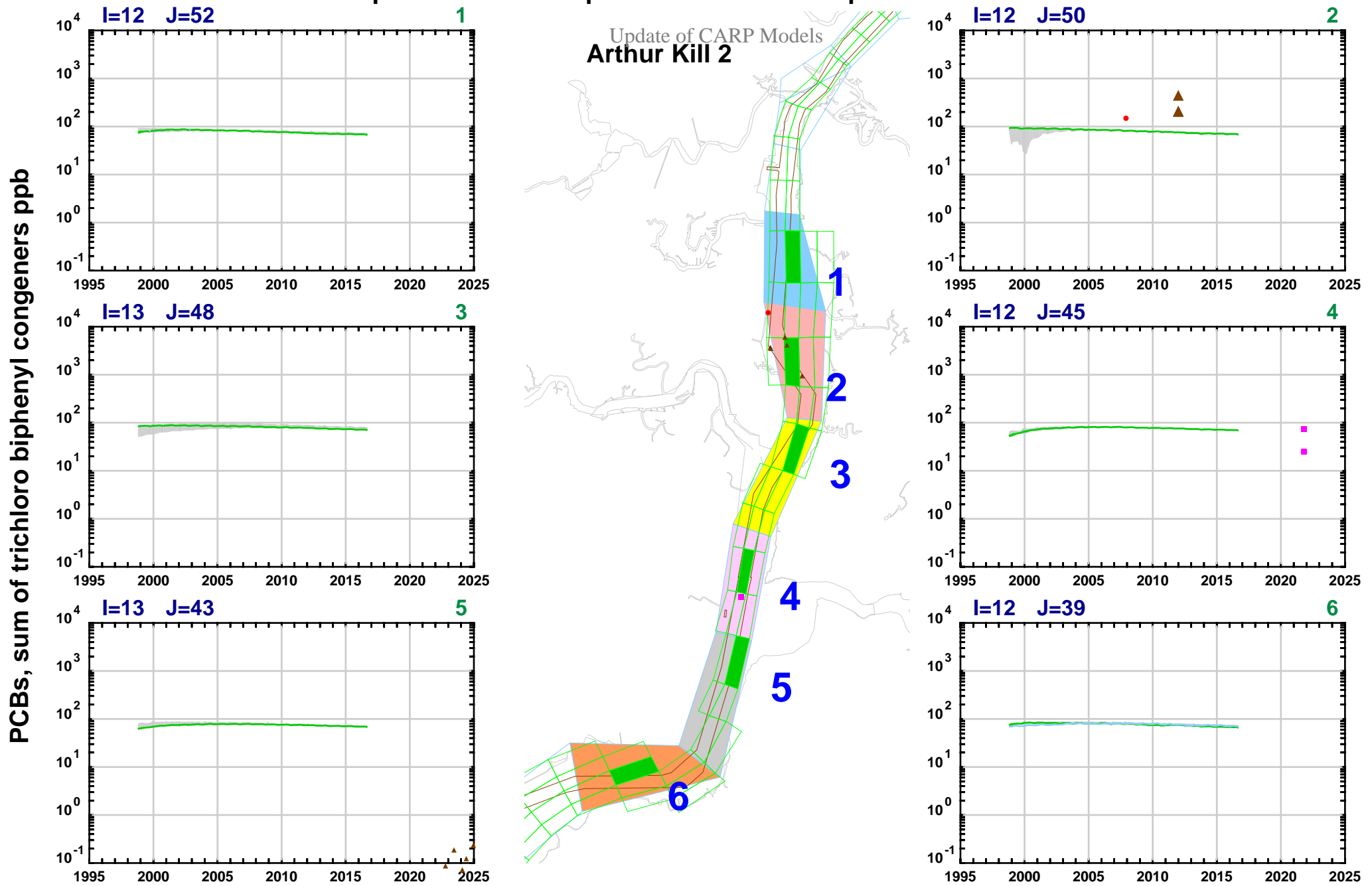


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

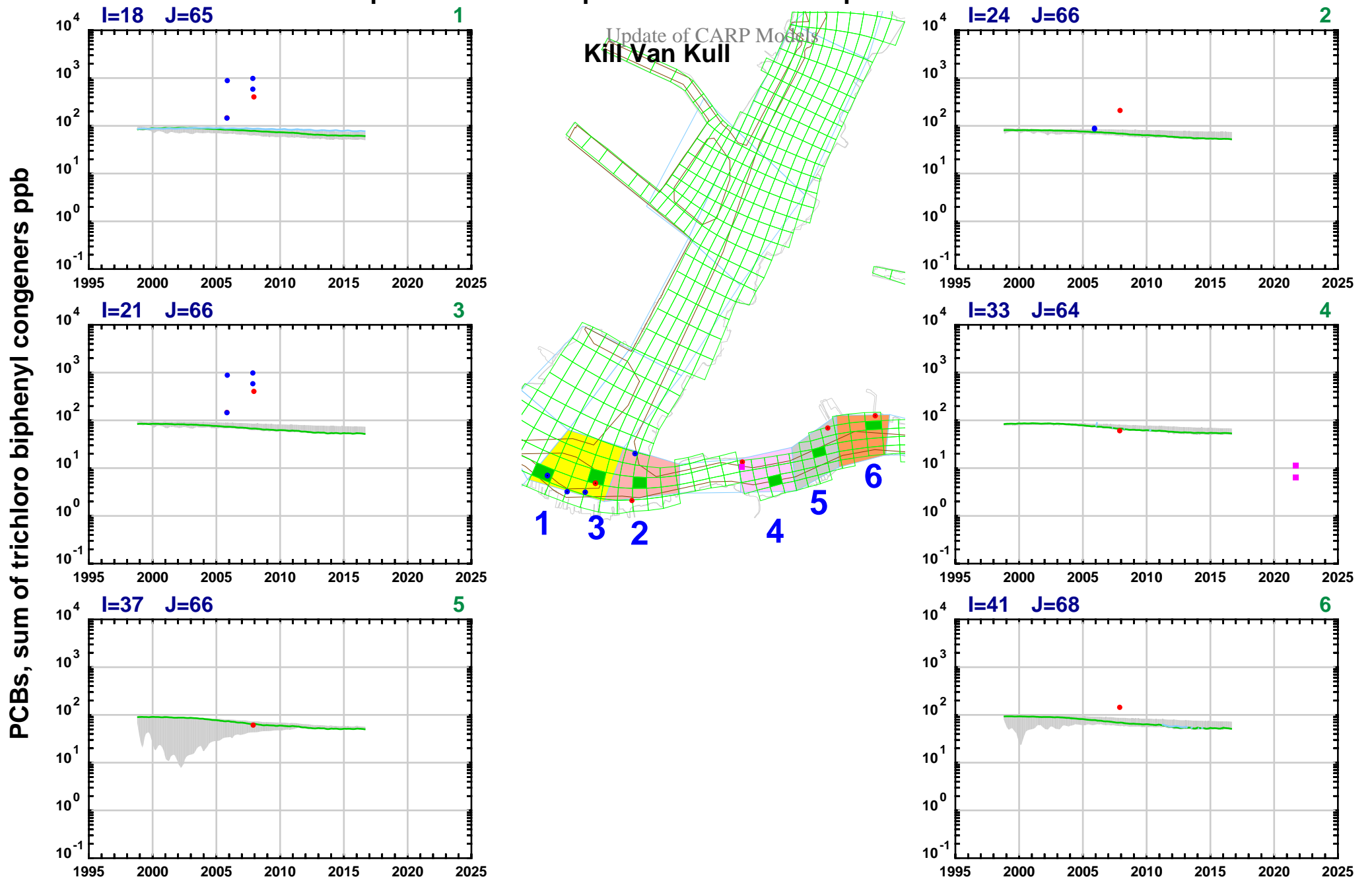


**RUN18\_S2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

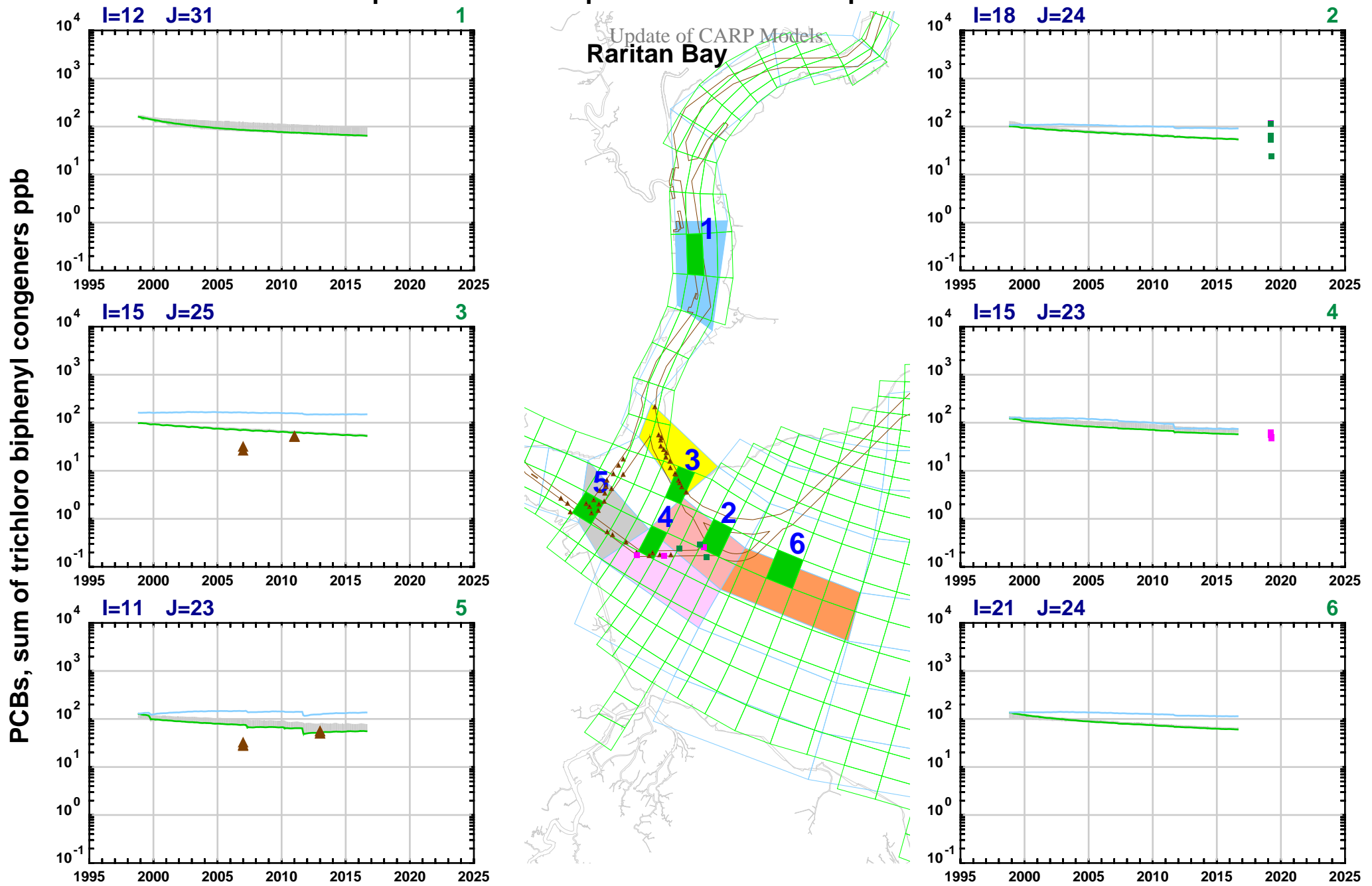


**RUN18\_S2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

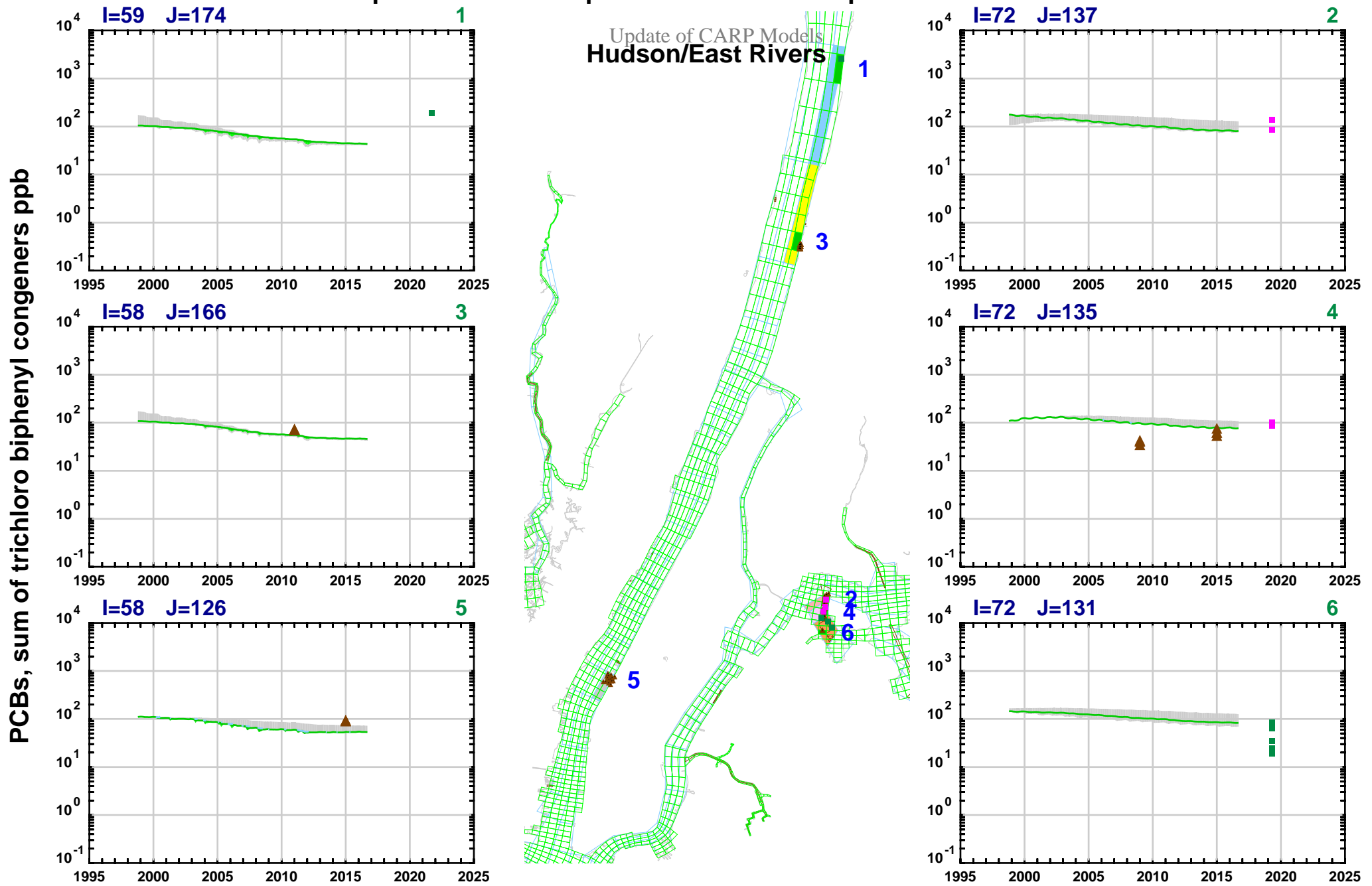


**RUN18\_S2**

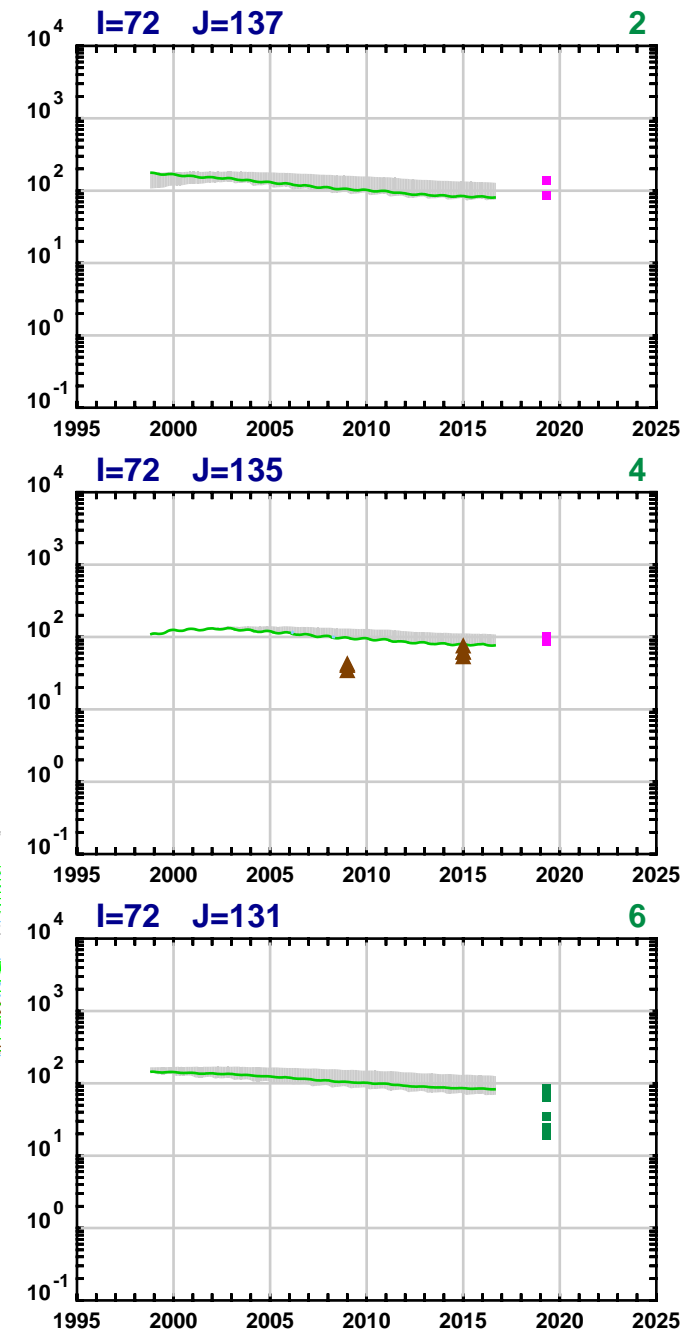
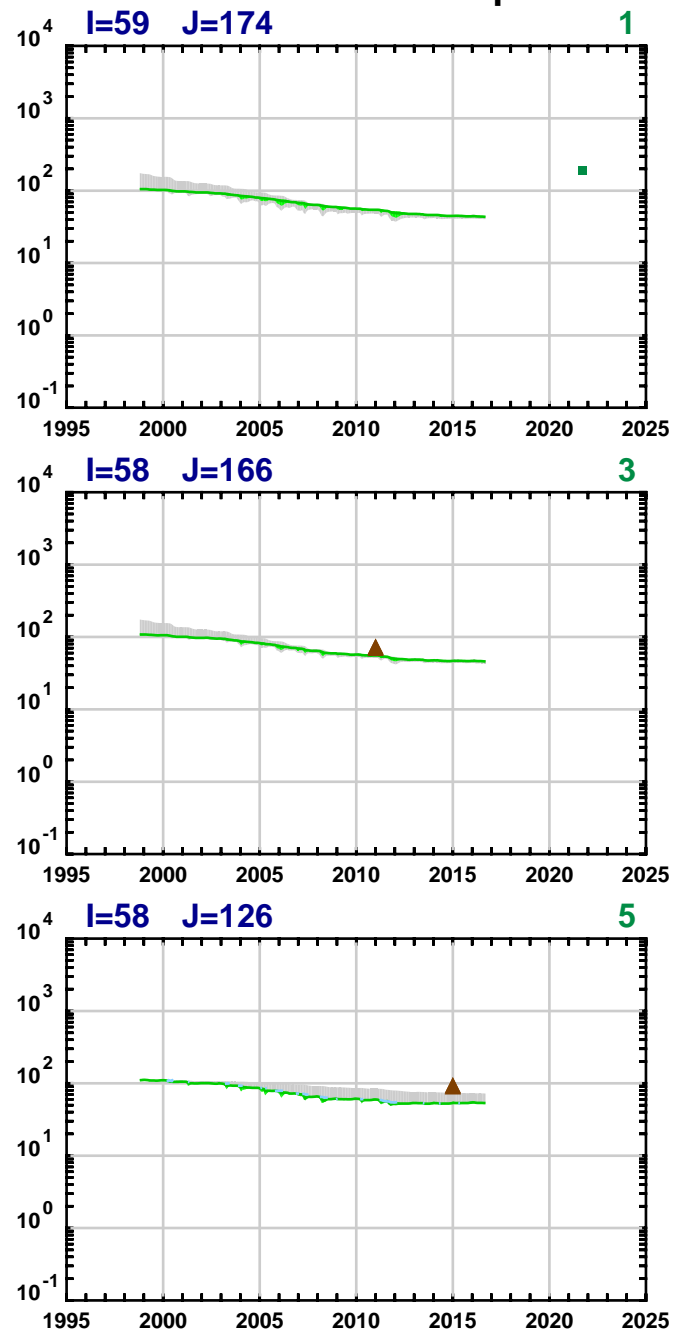
**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



Update of CARP Models  
Hudson/East Rivers

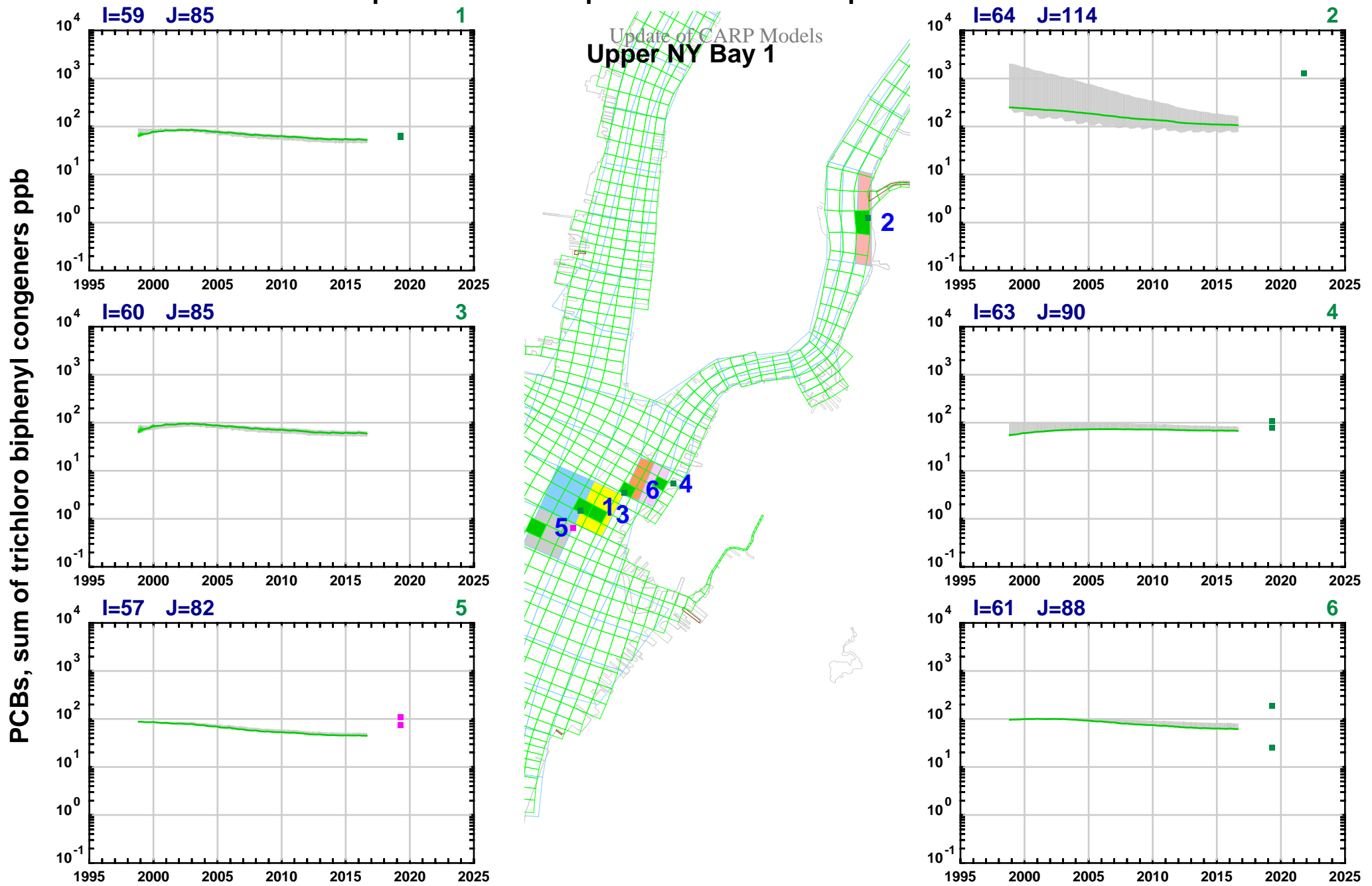


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



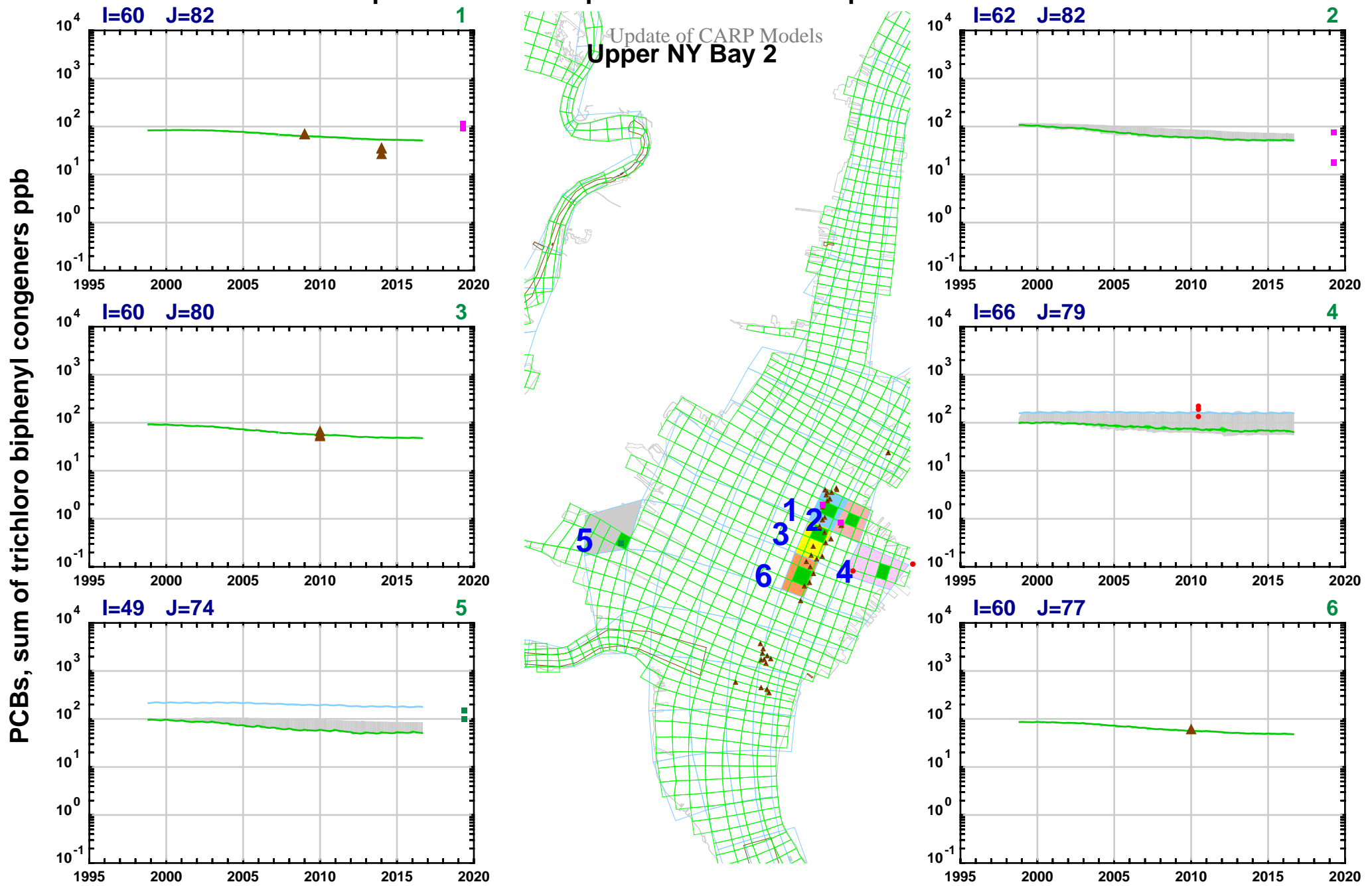
Update of CARP Models  
Upper NY Bay 1

RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



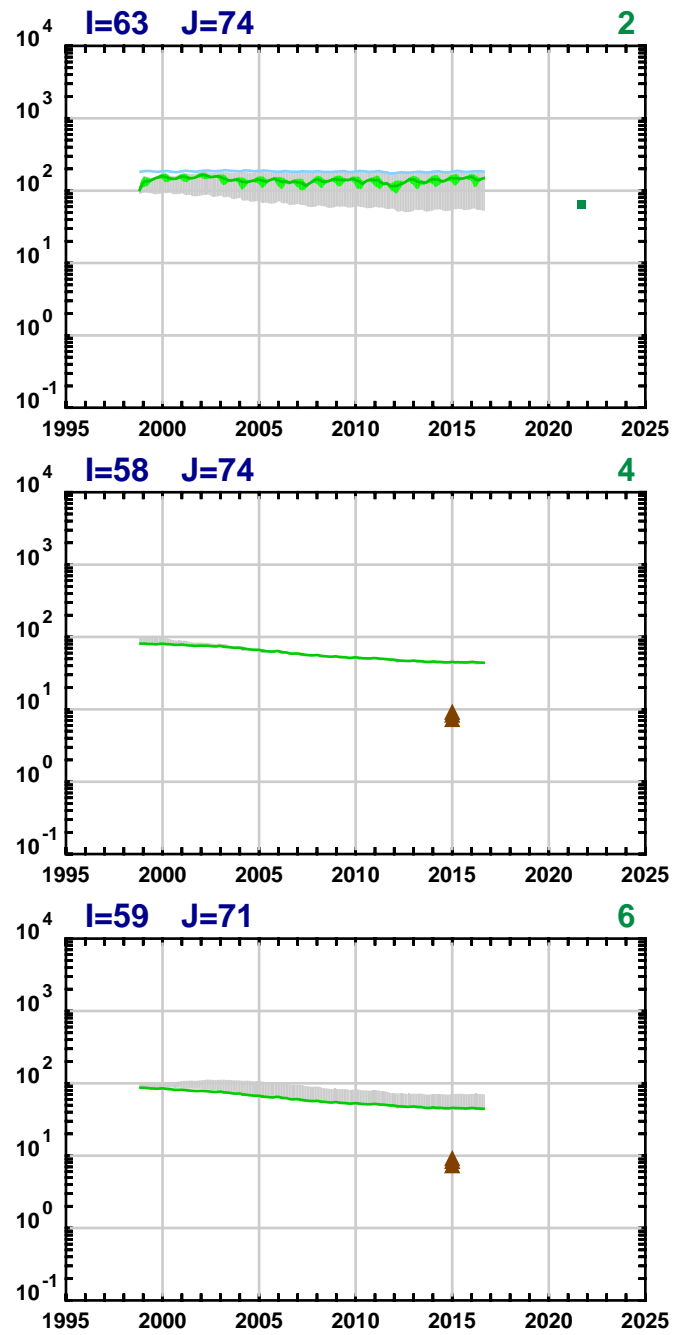
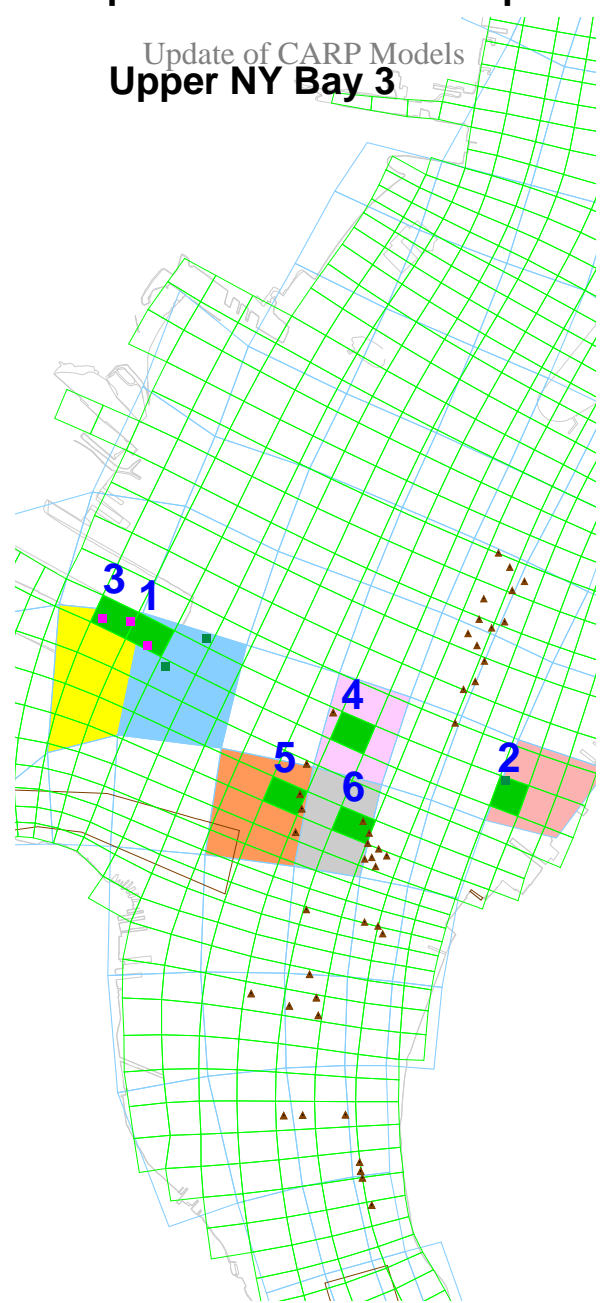
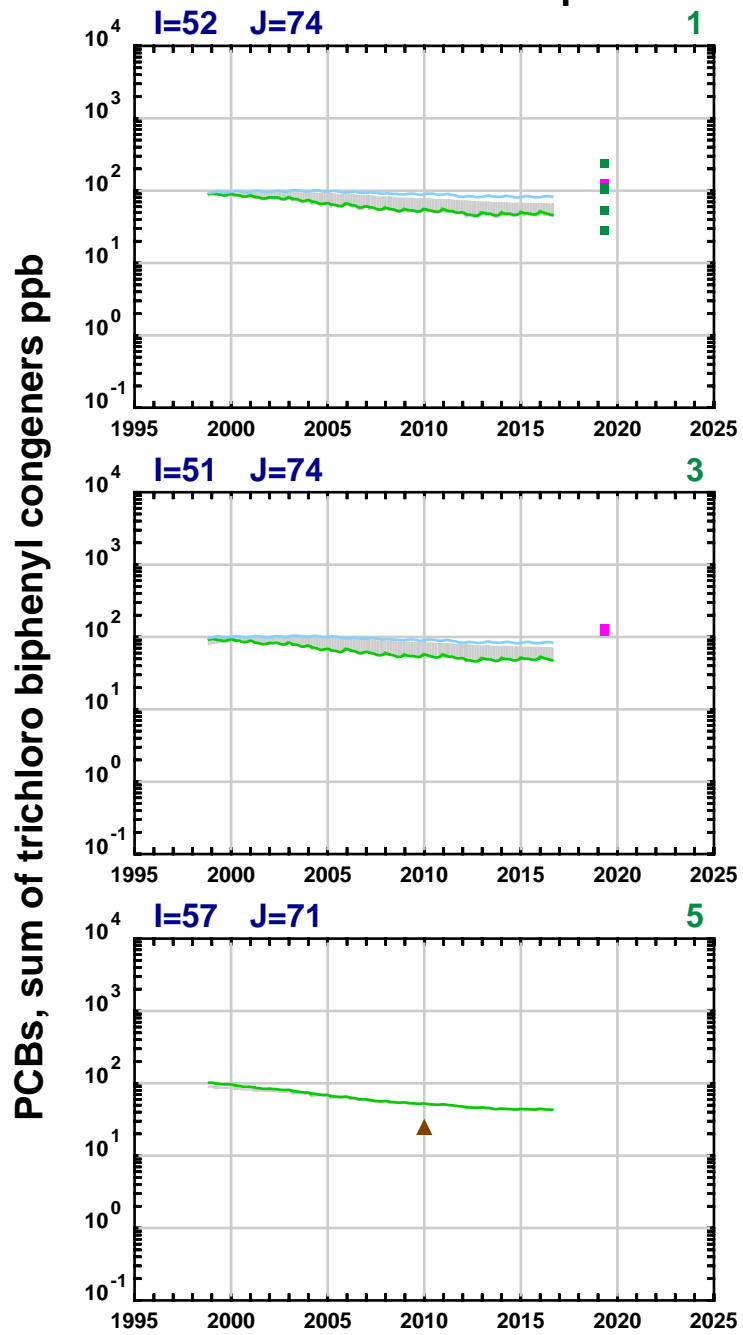
RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

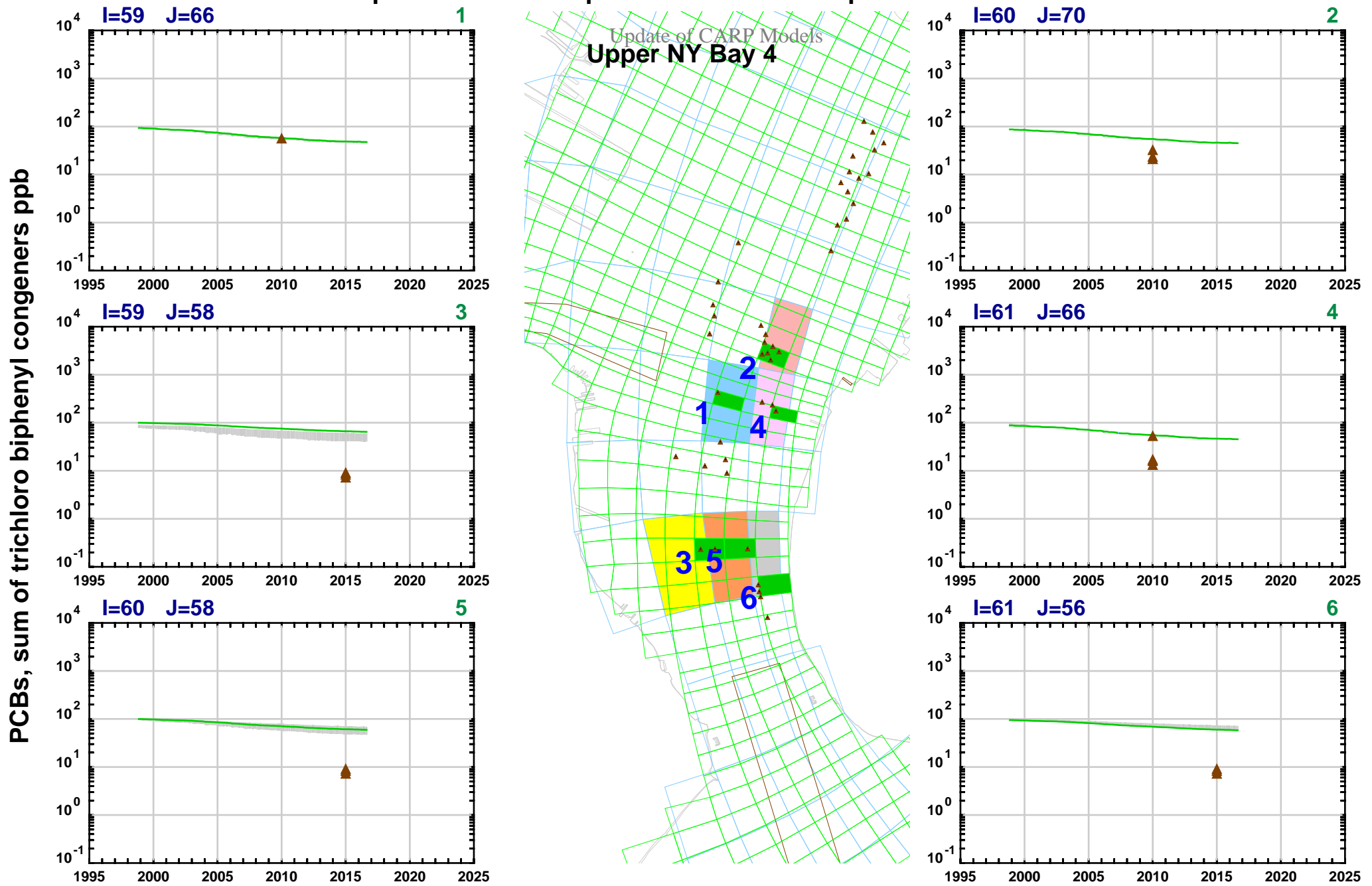


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

- In-channel data
- Off-channel data
- ▲ Dredge data
- CARP2 In-channel
- CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

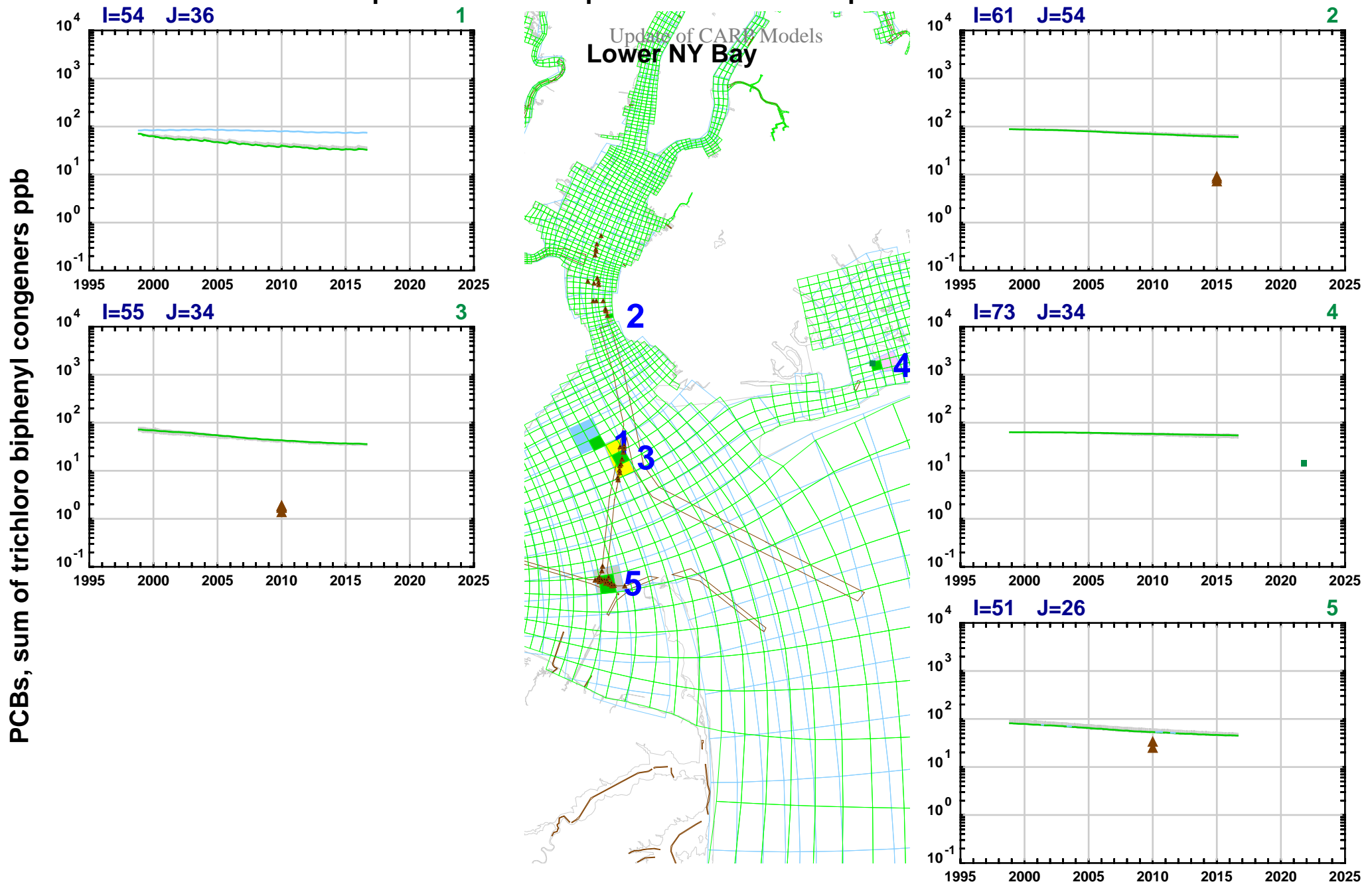


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

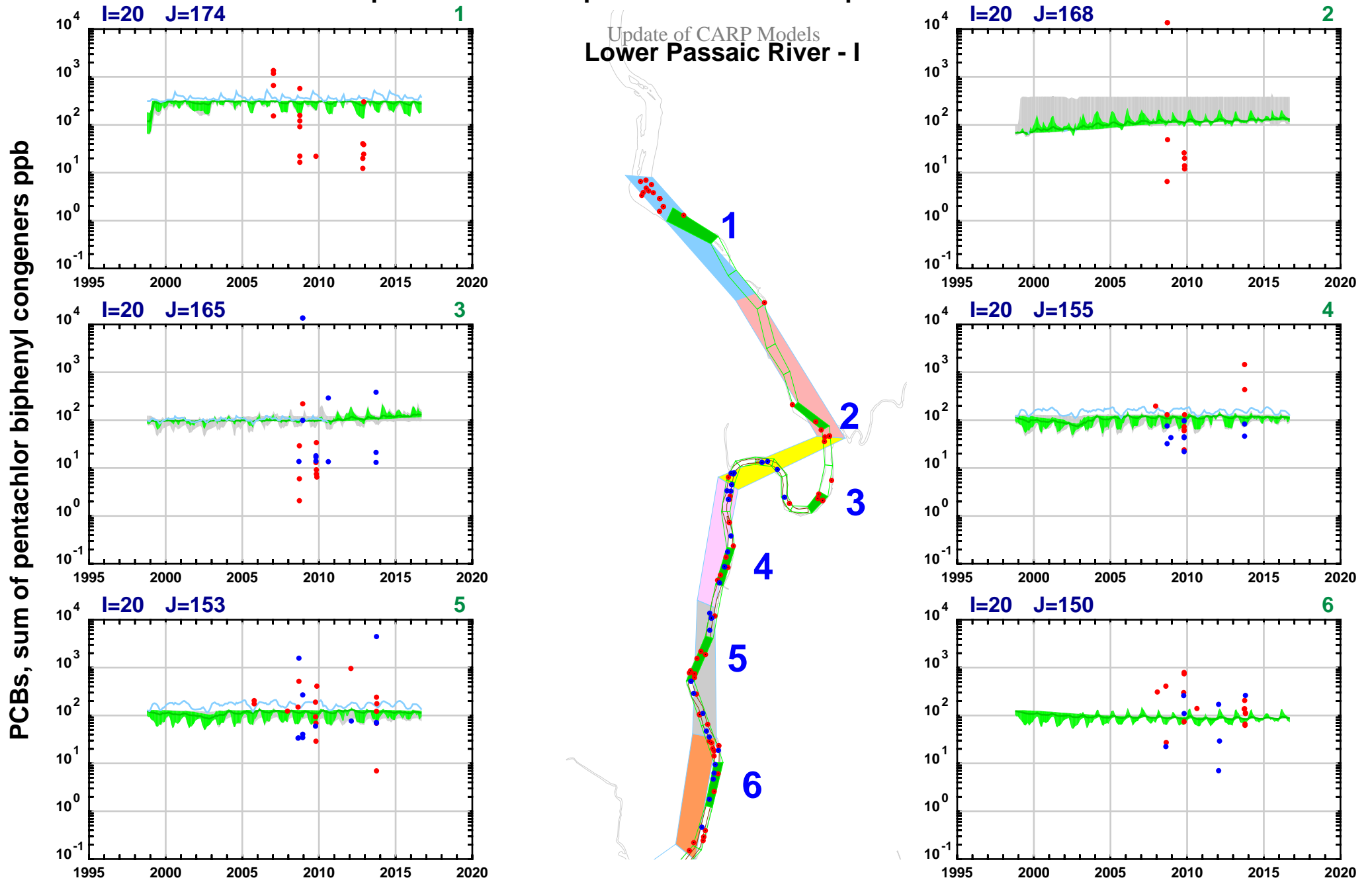


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

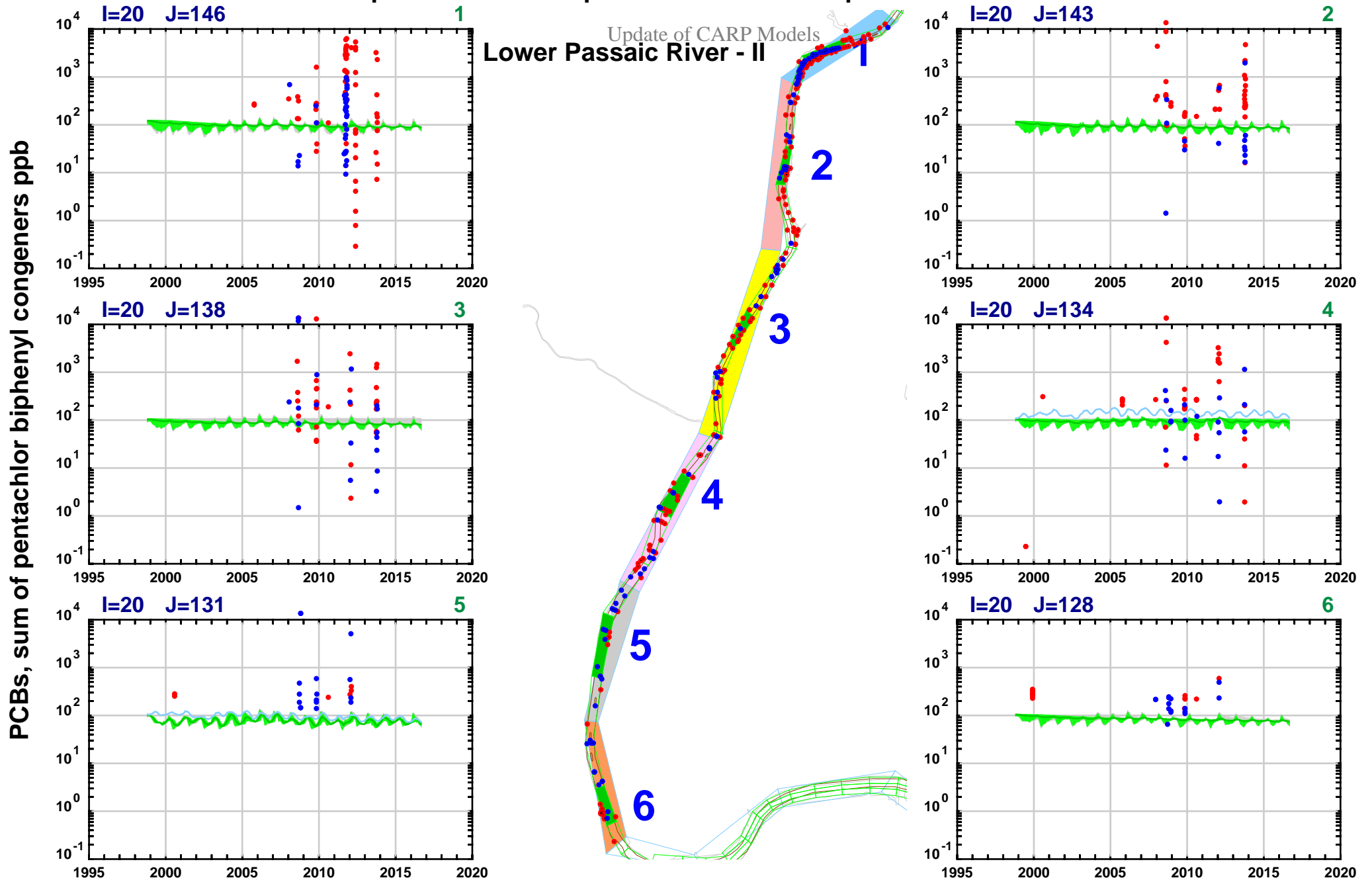


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

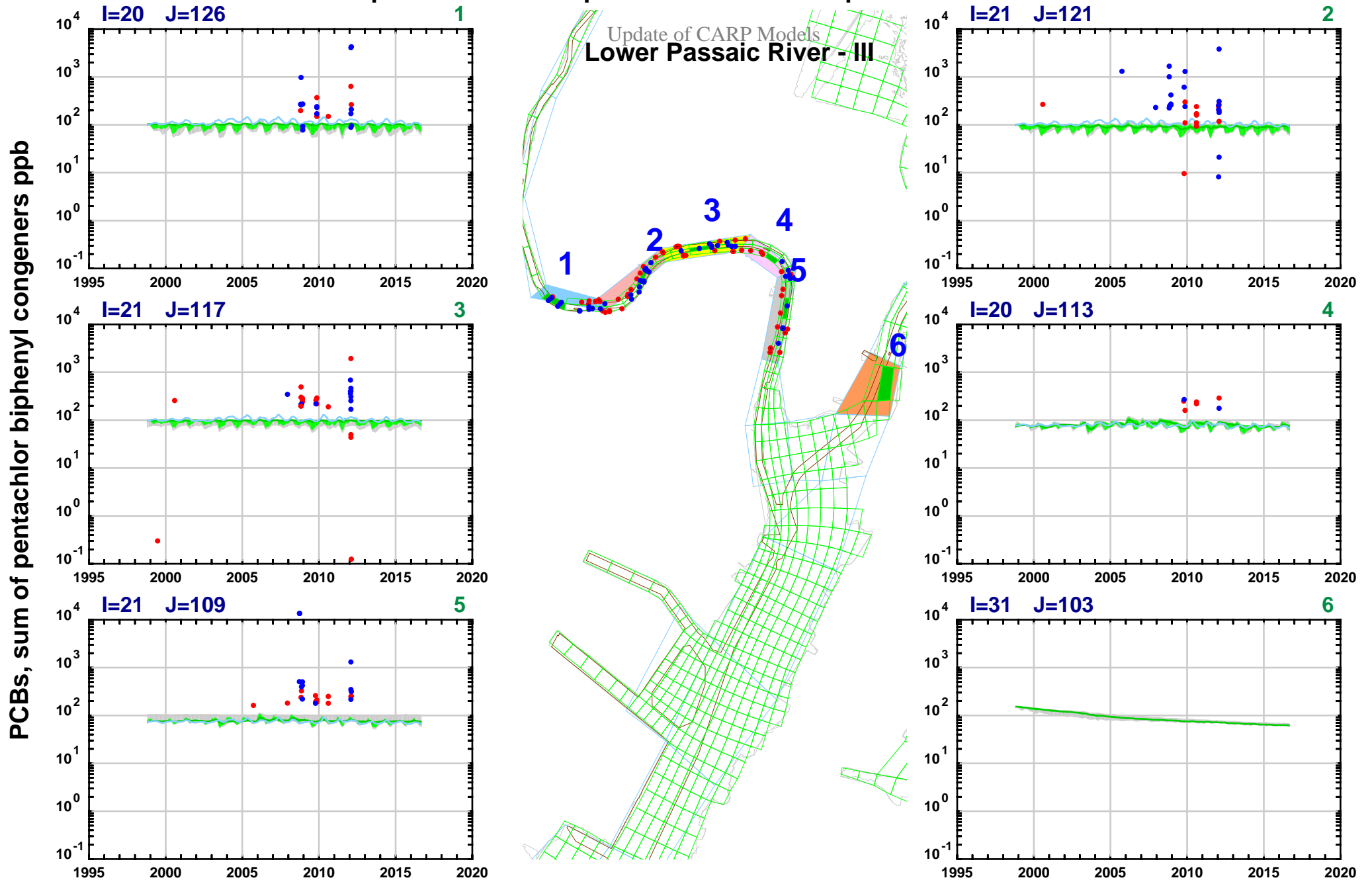
# Top 15 cm data comparison with model top 10 cm sediment



RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

# Top 15 cm data comparison with model top 10 cm sediment



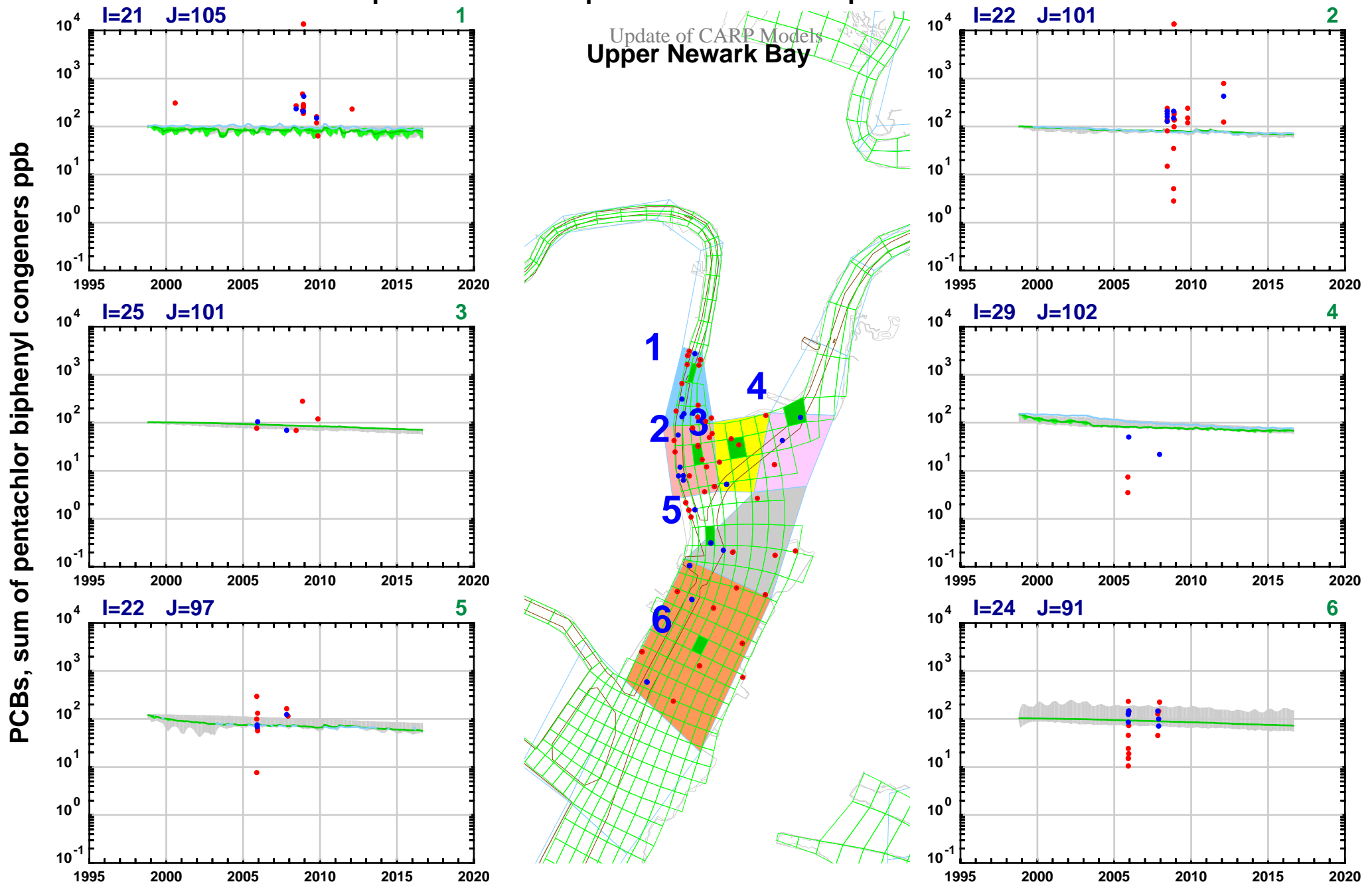
RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



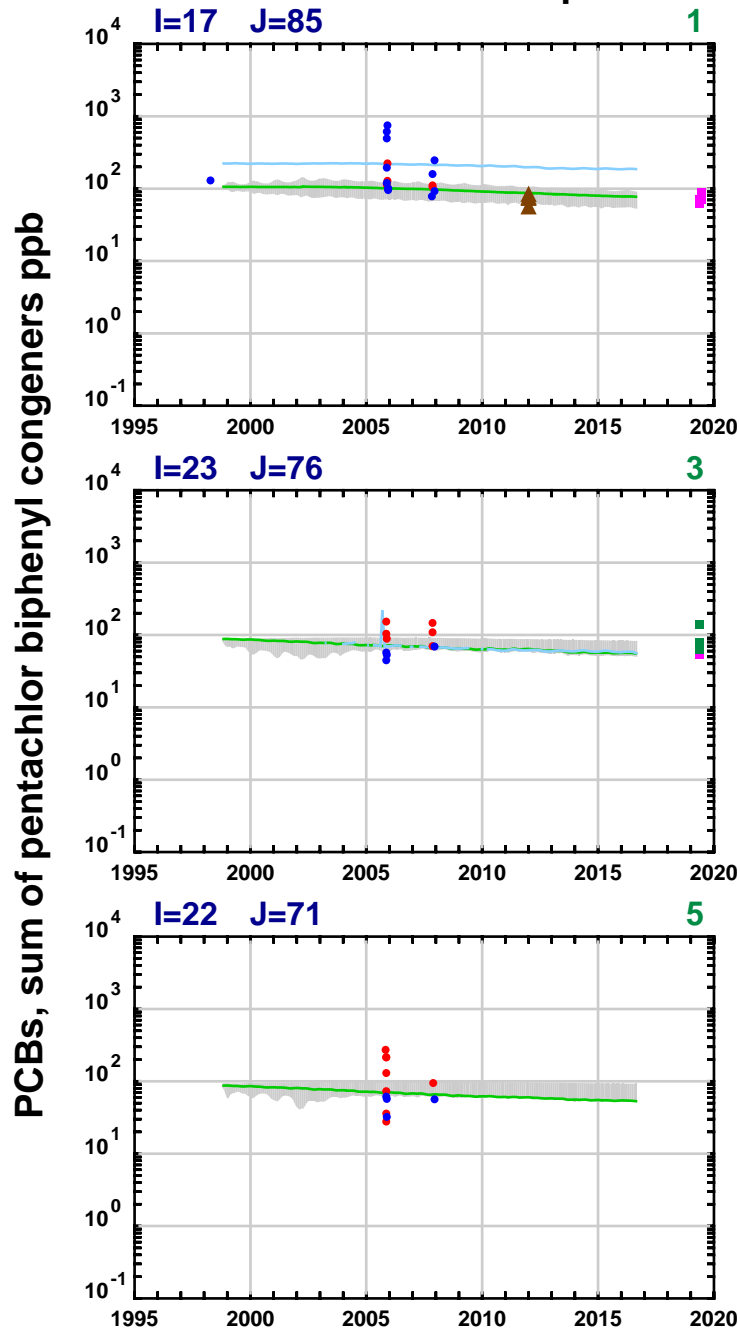
RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

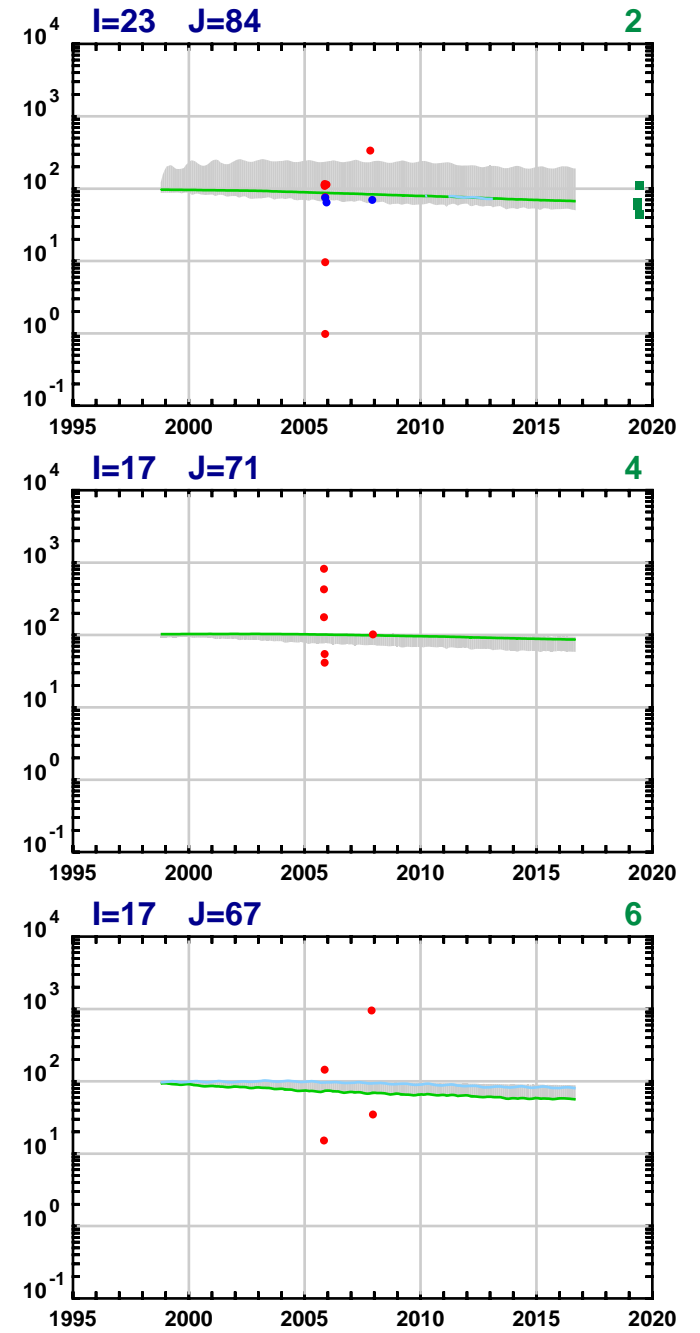
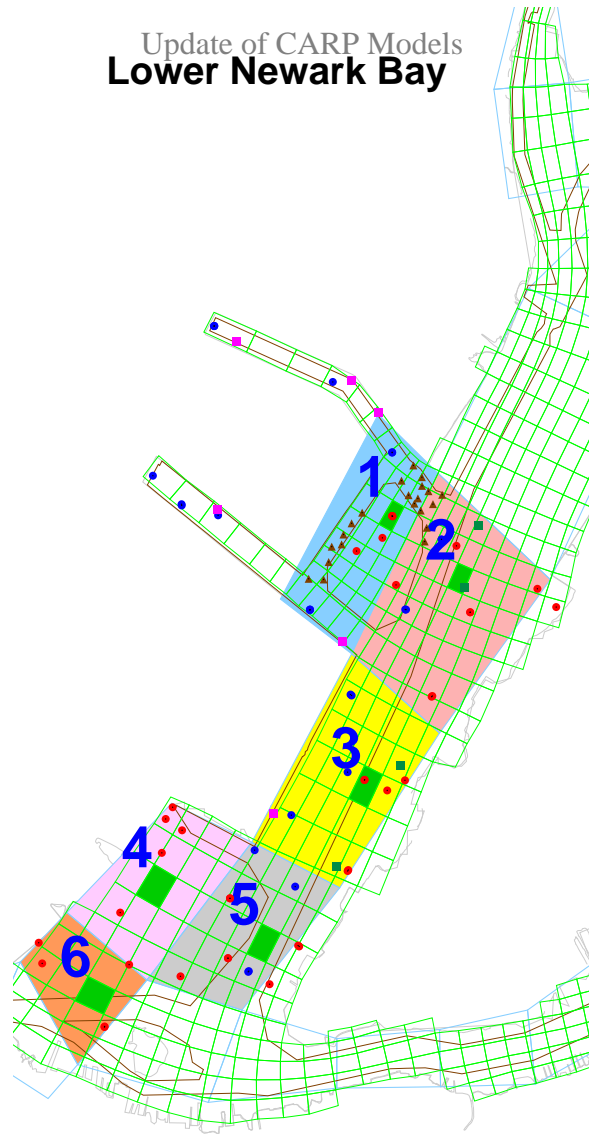
● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



## Update of CARP Models Lower Newark Bay

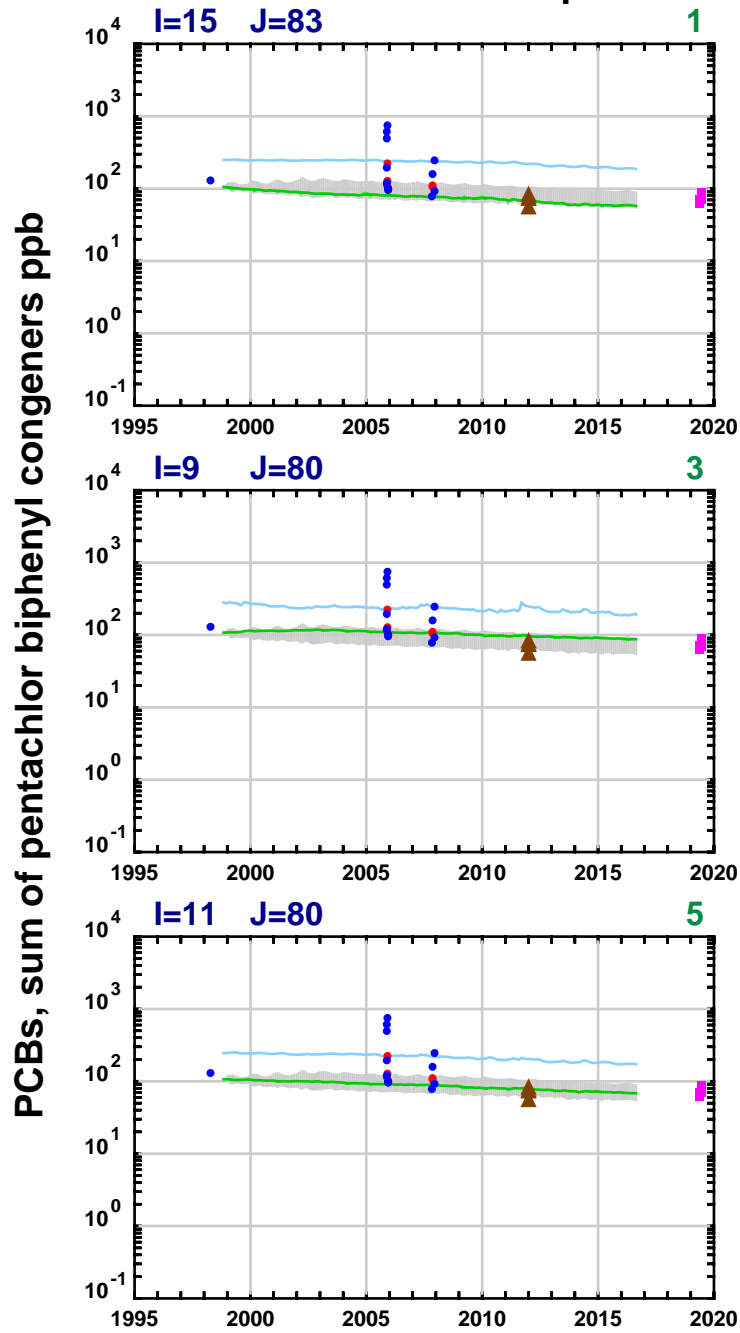


RUN18\_S2

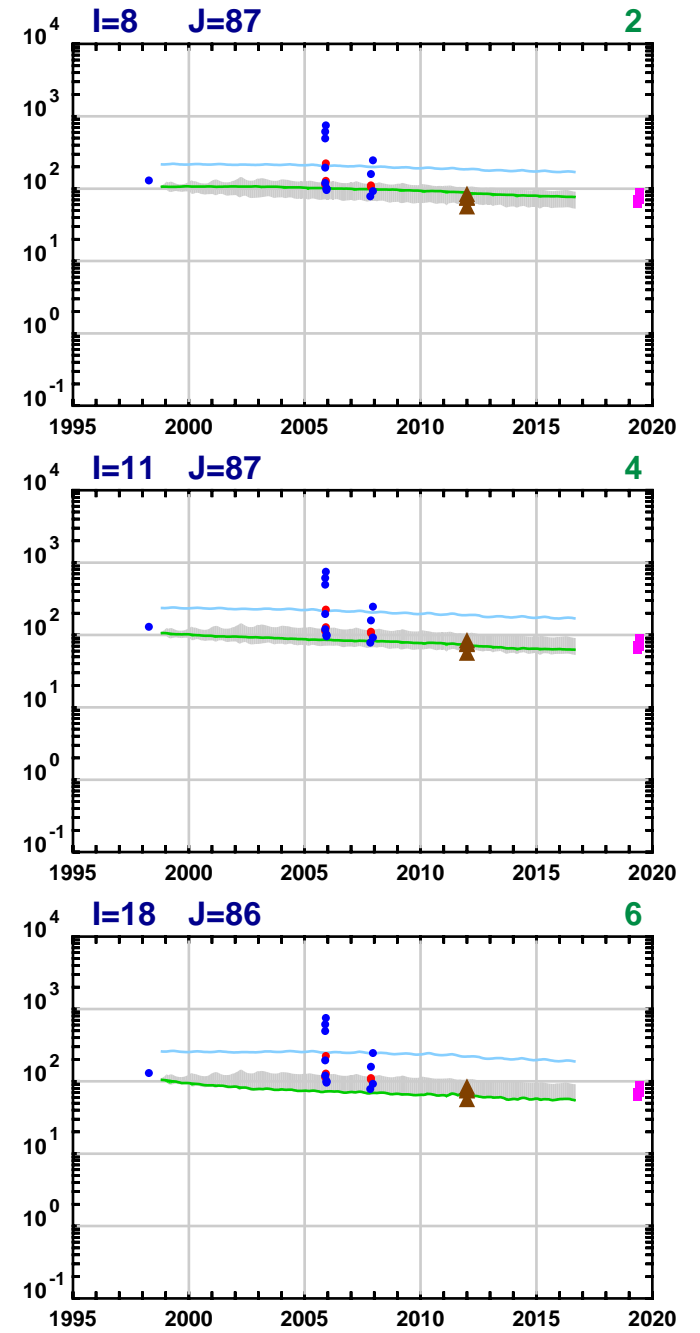
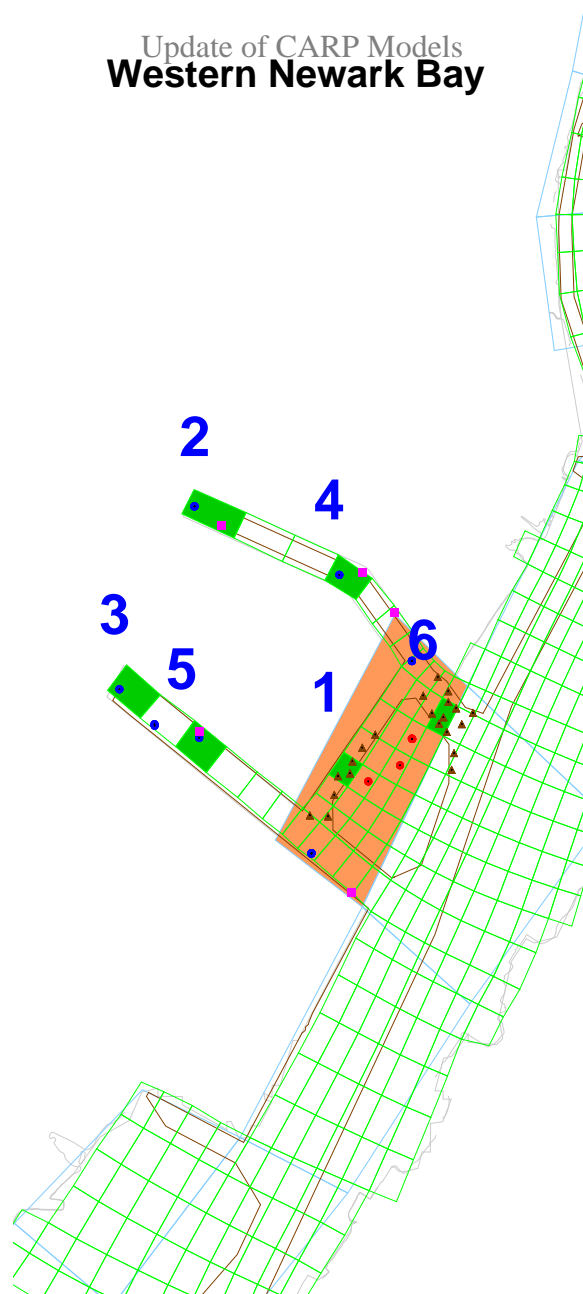
Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



## Update of CARP Models Western Newark Bay



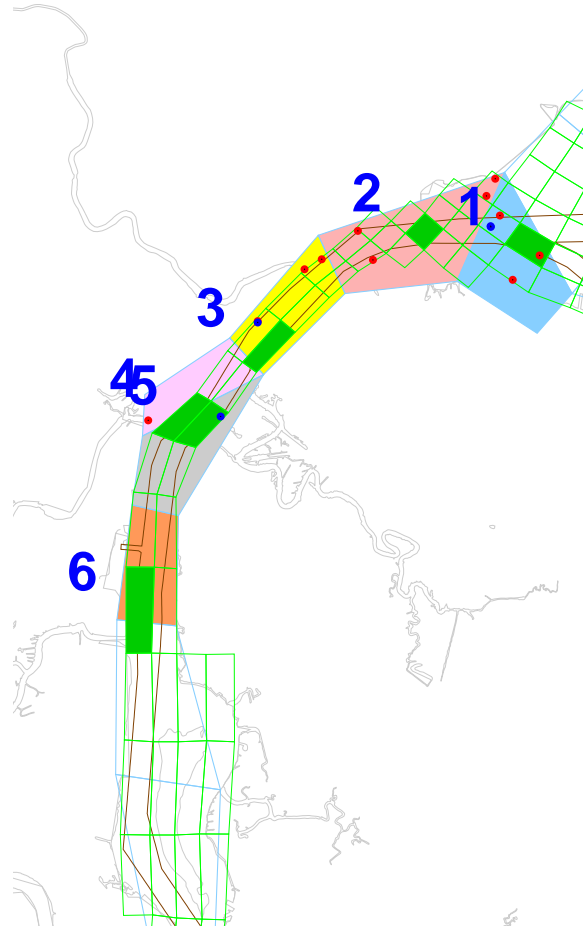
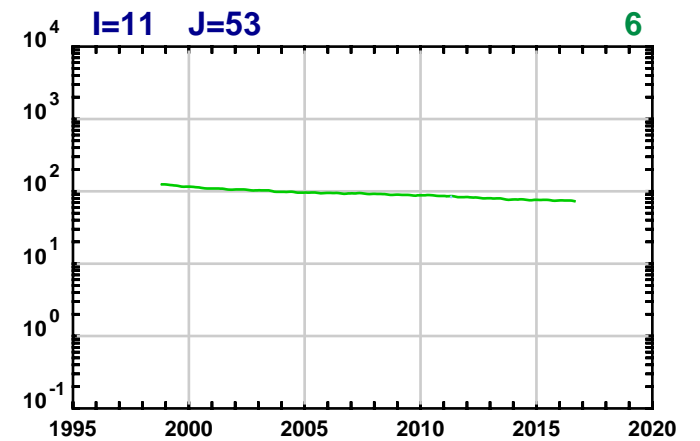
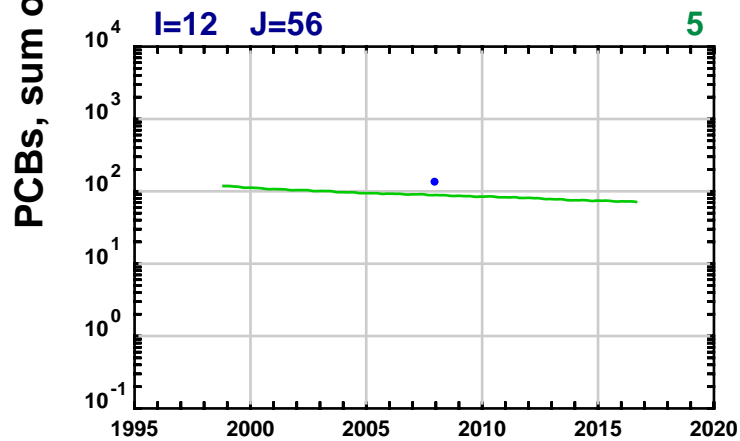
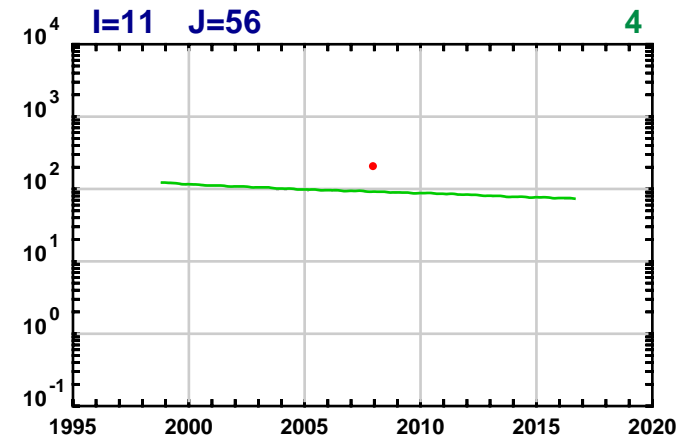
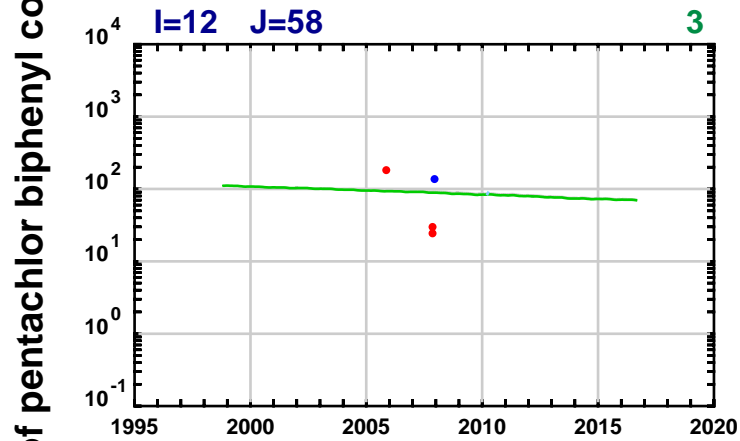
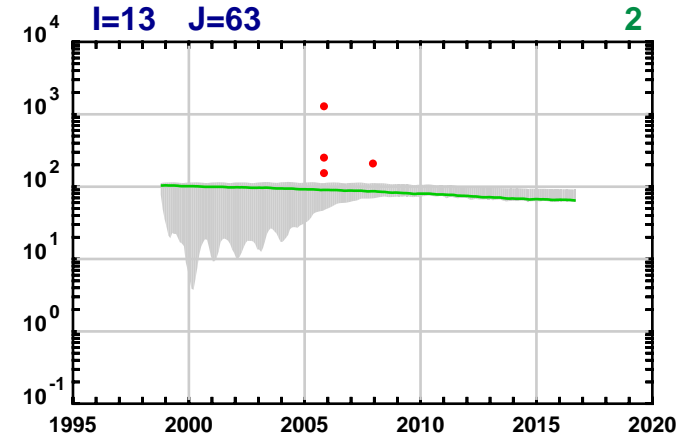
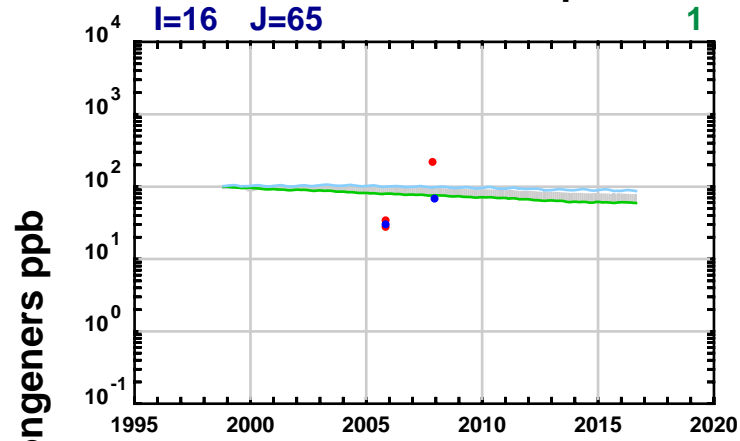
RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

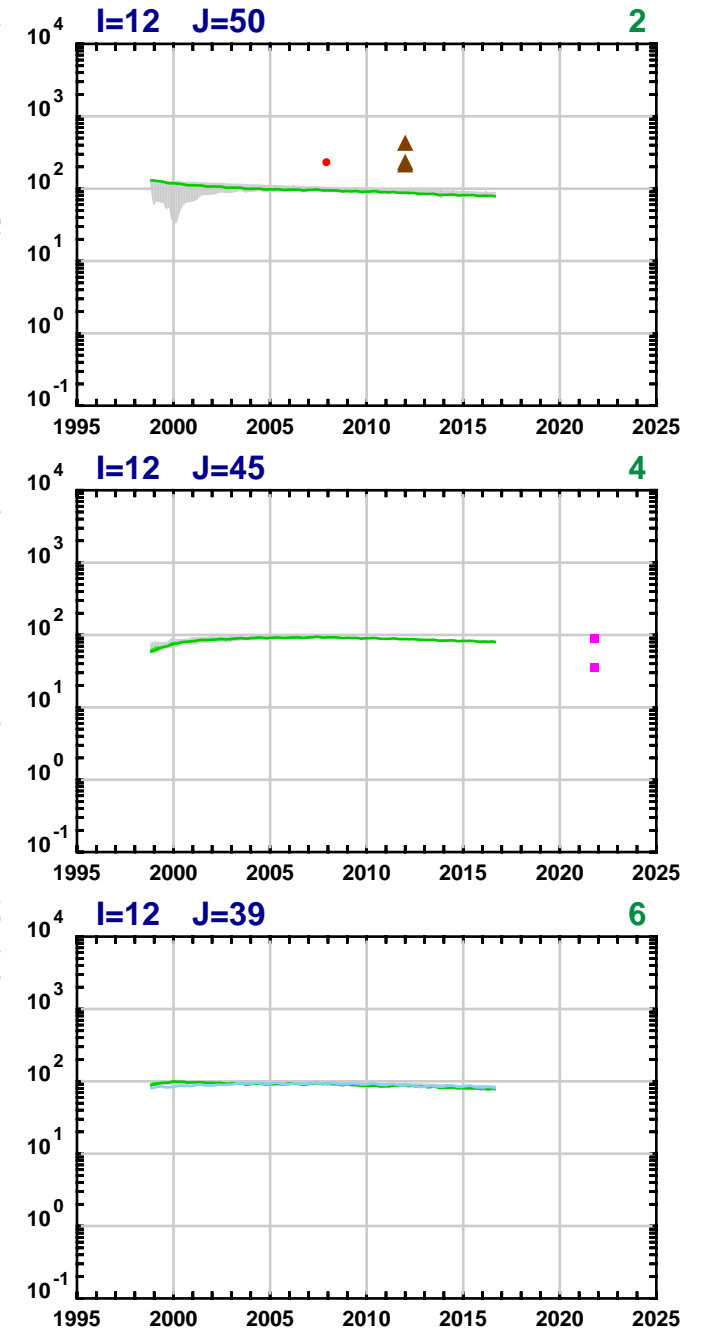
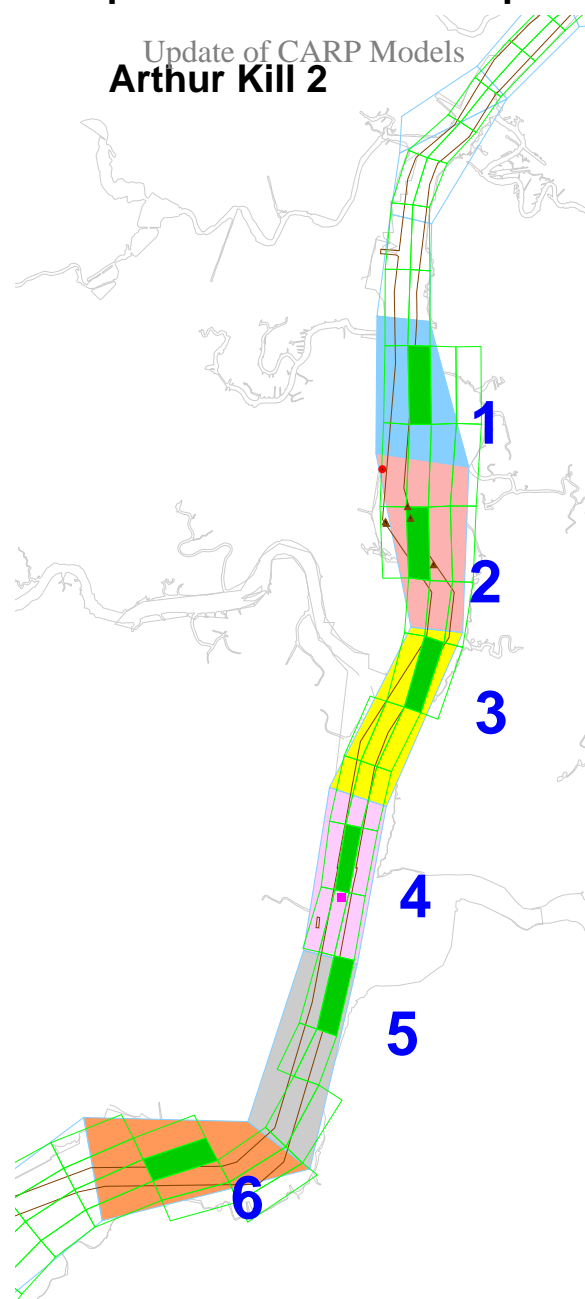
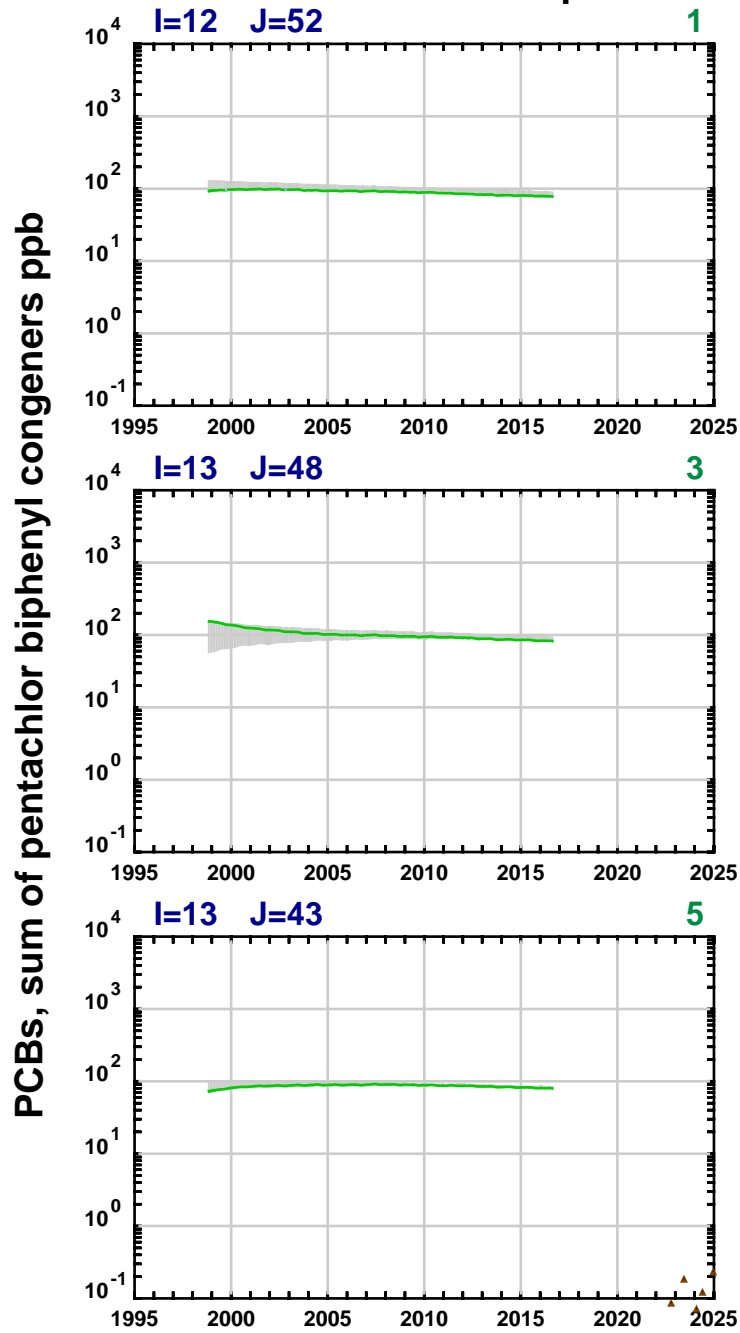


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

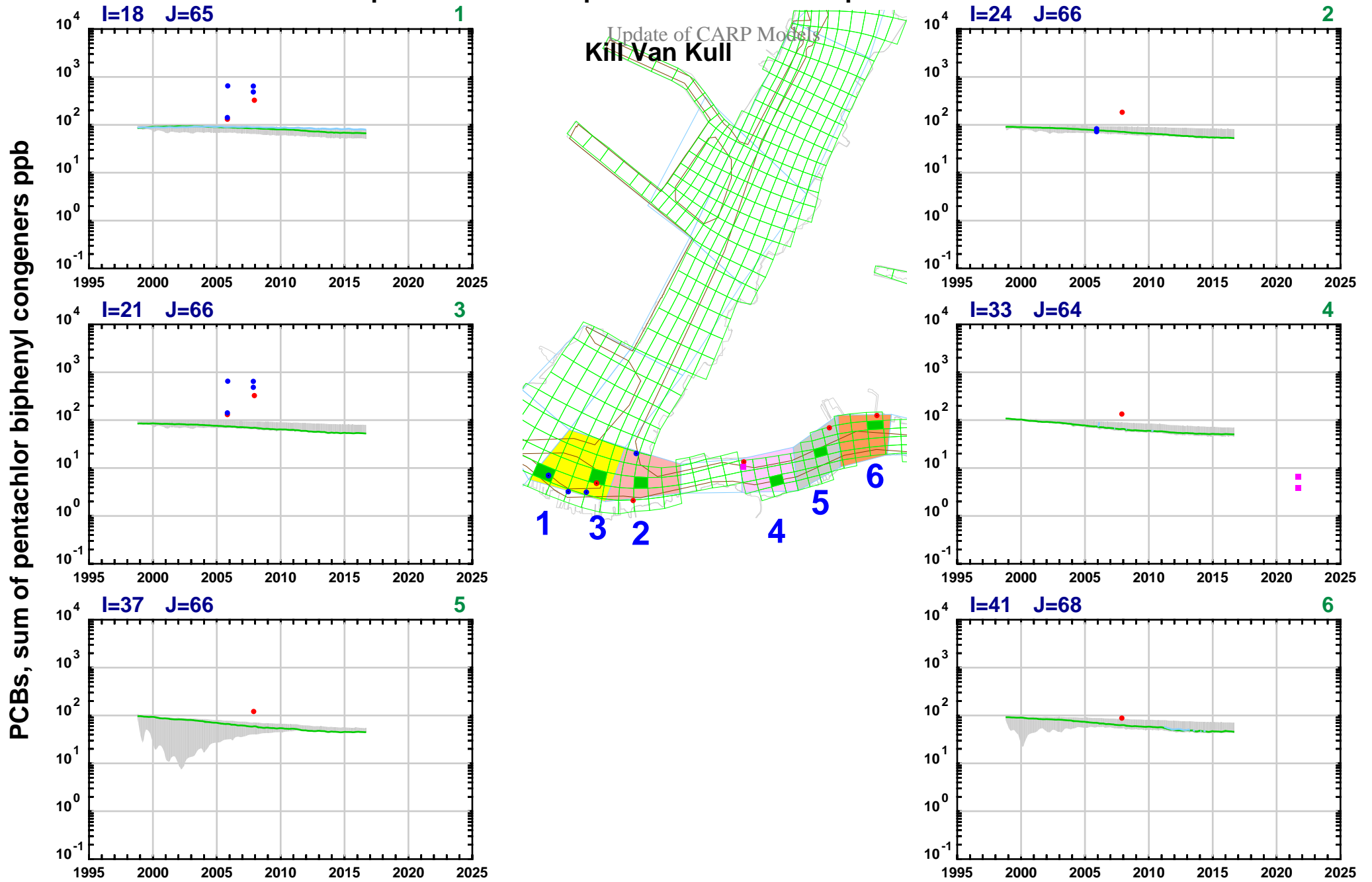


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

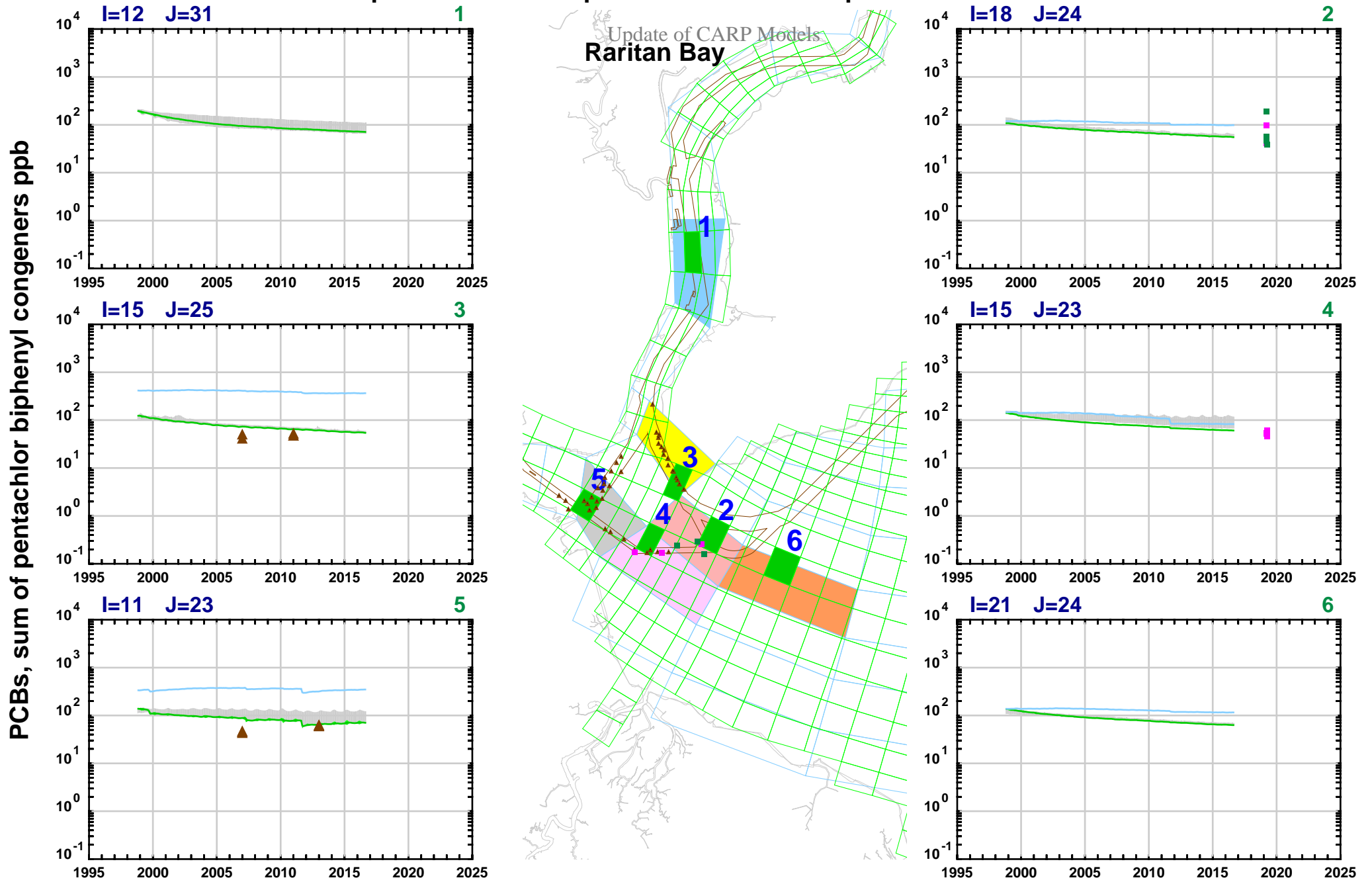


**RUN18\_S2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

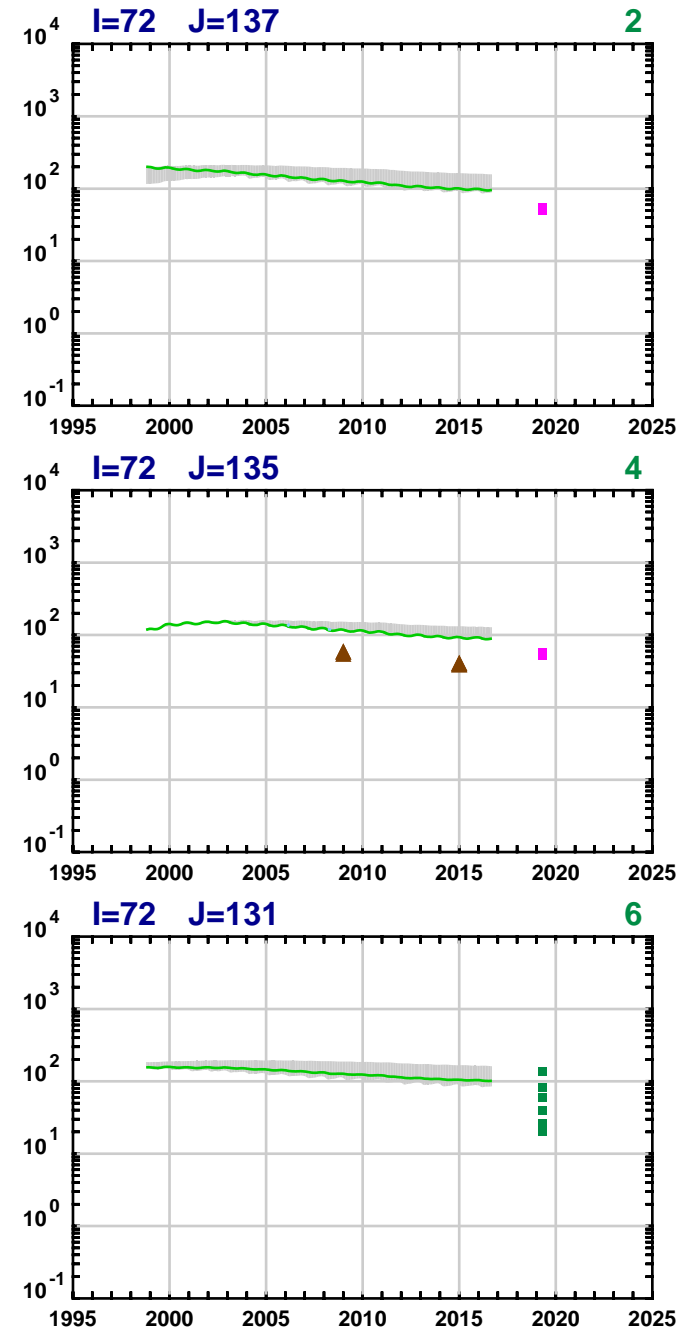
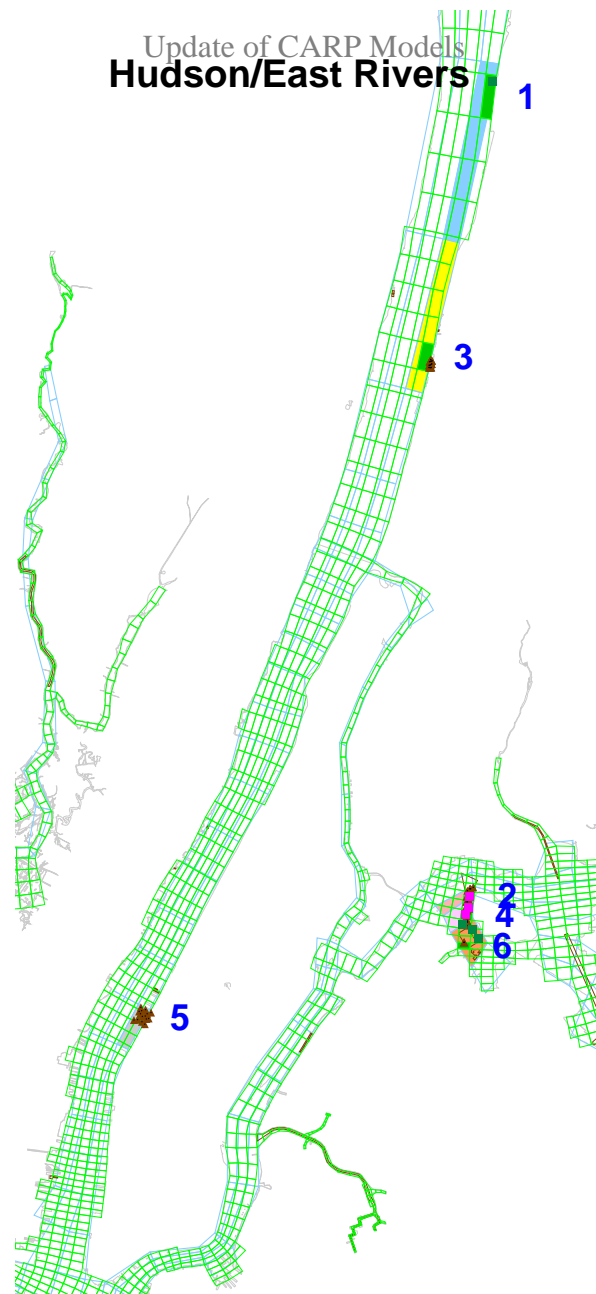
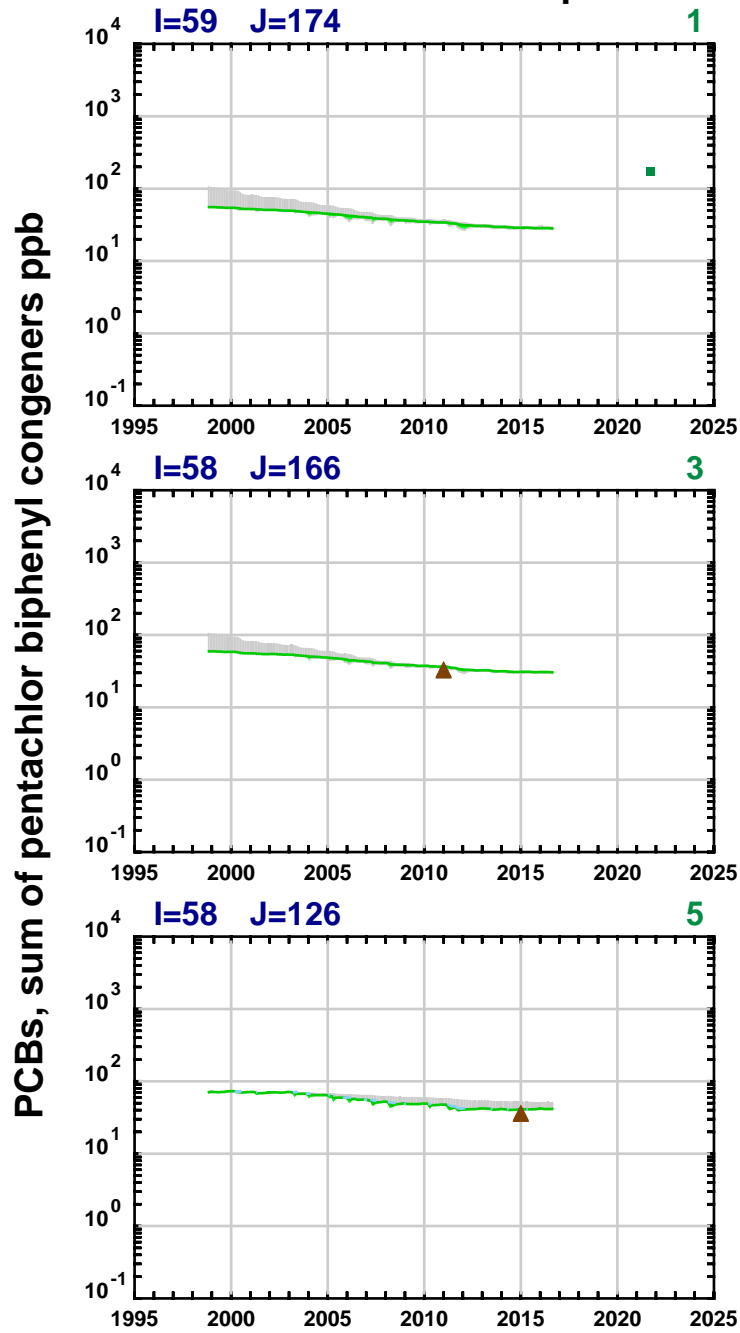


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



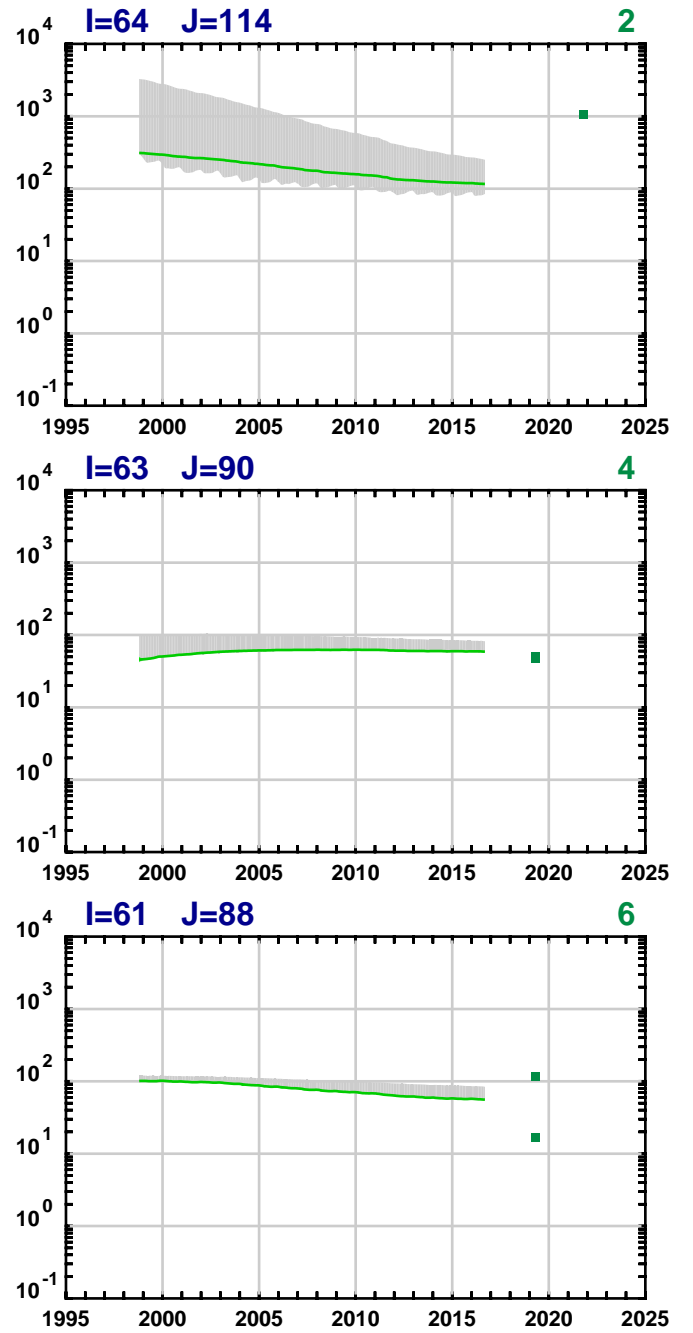
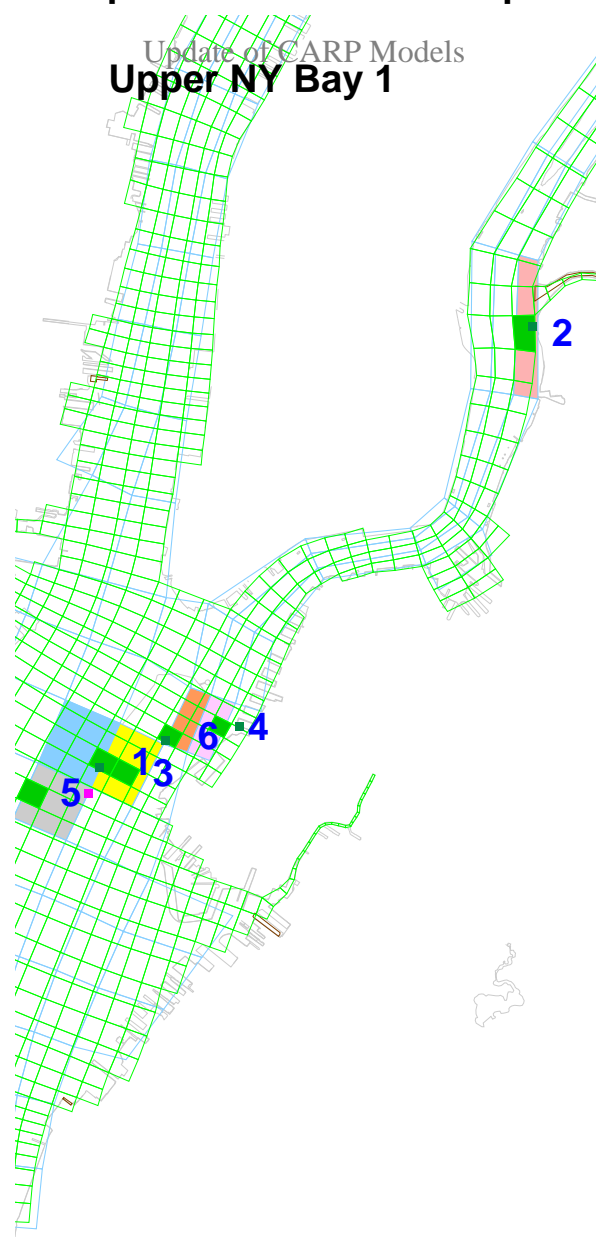
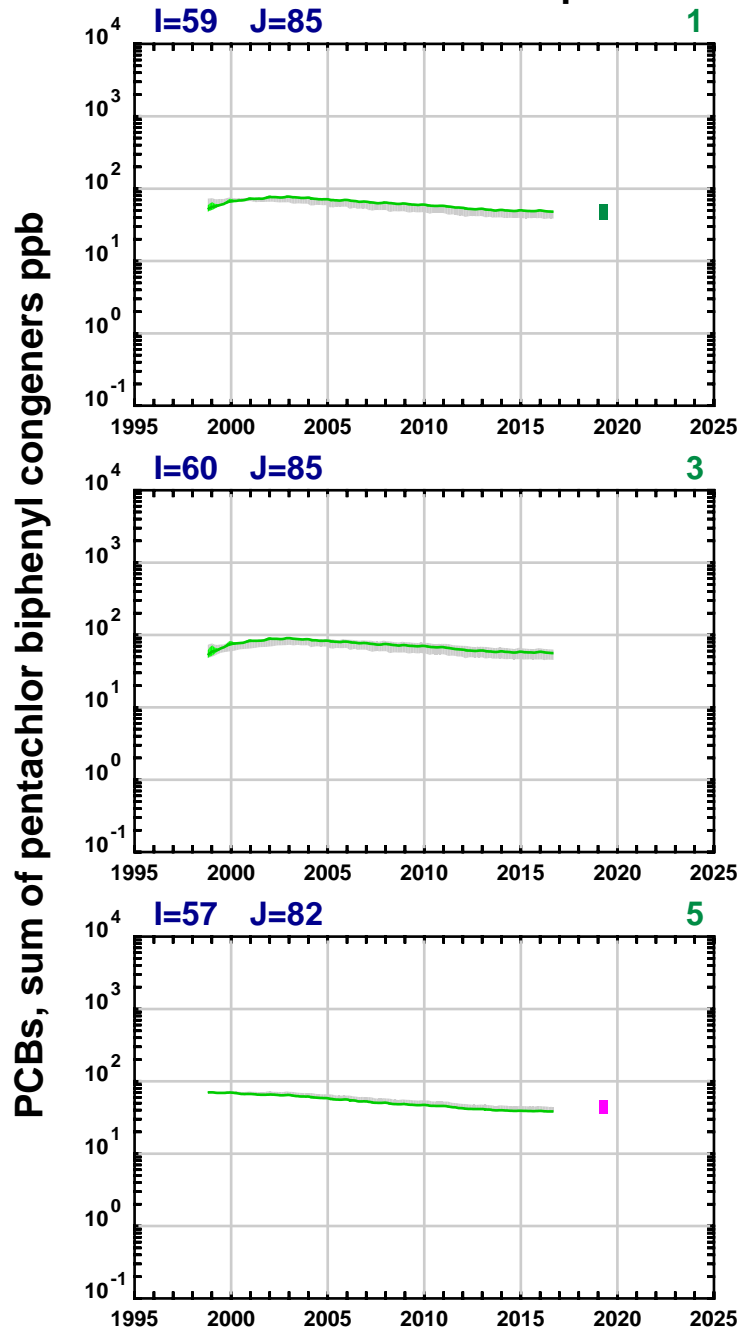
RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

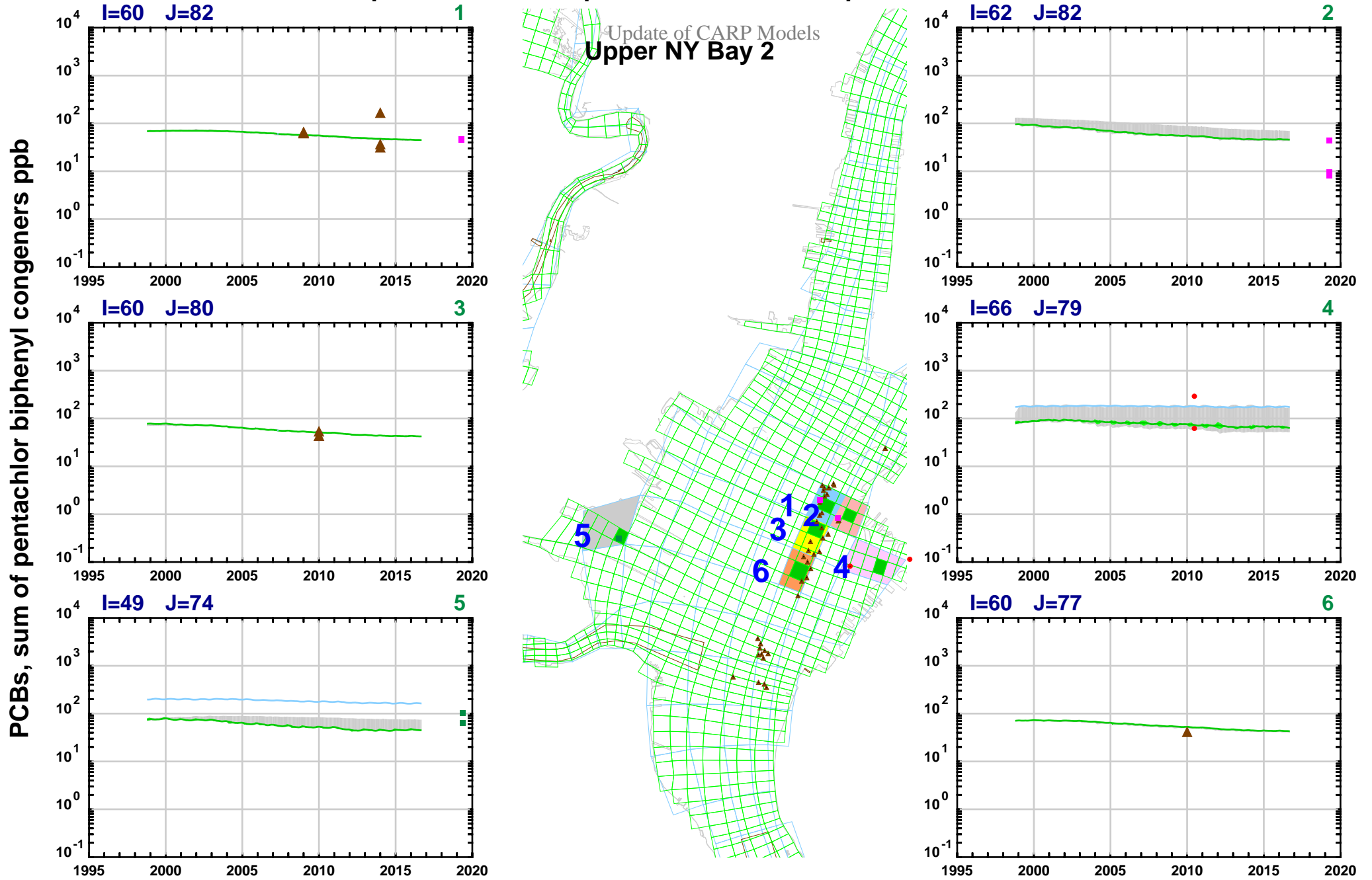


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

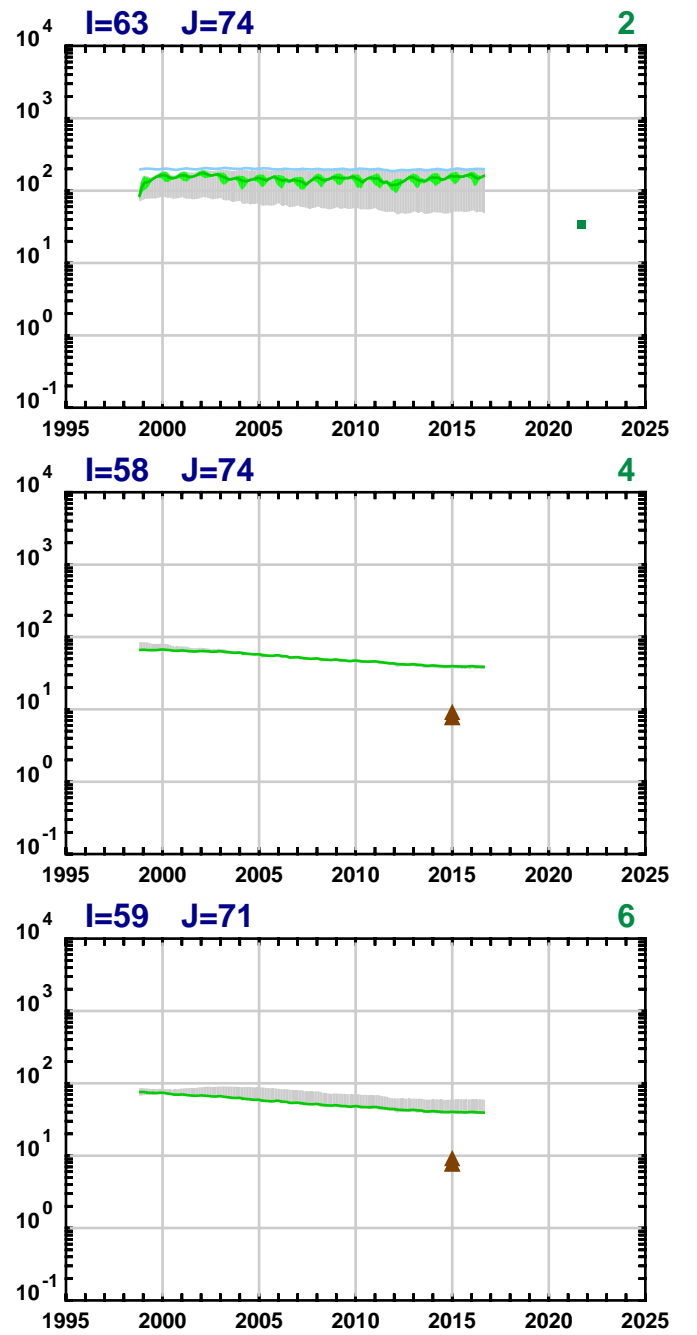
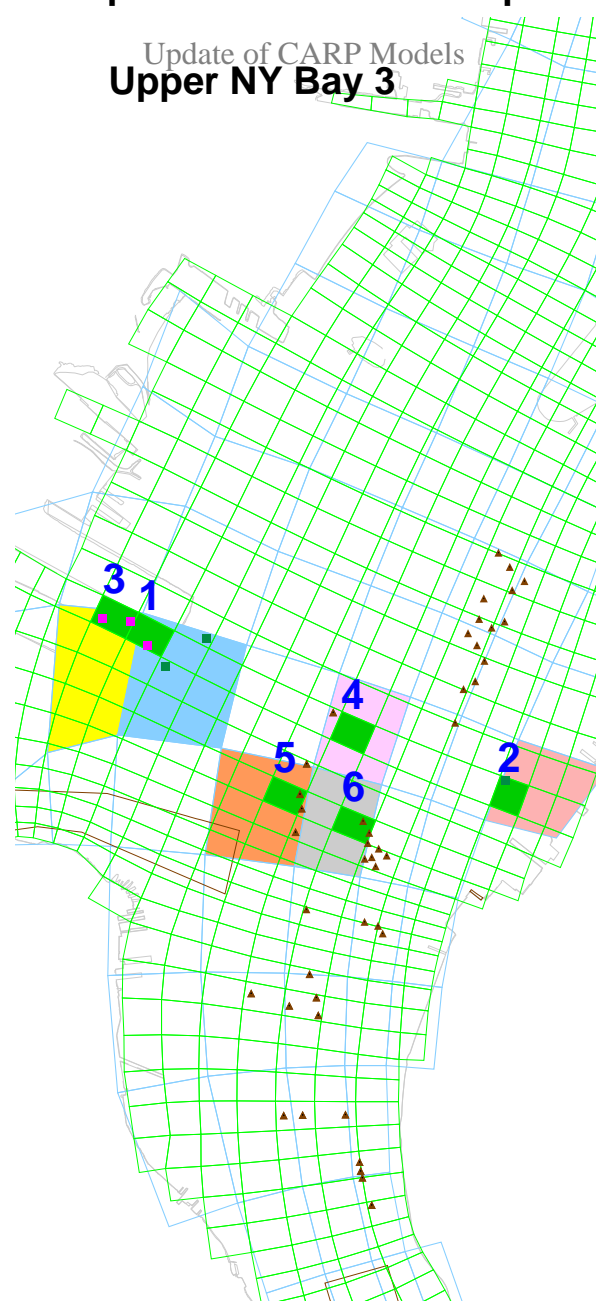
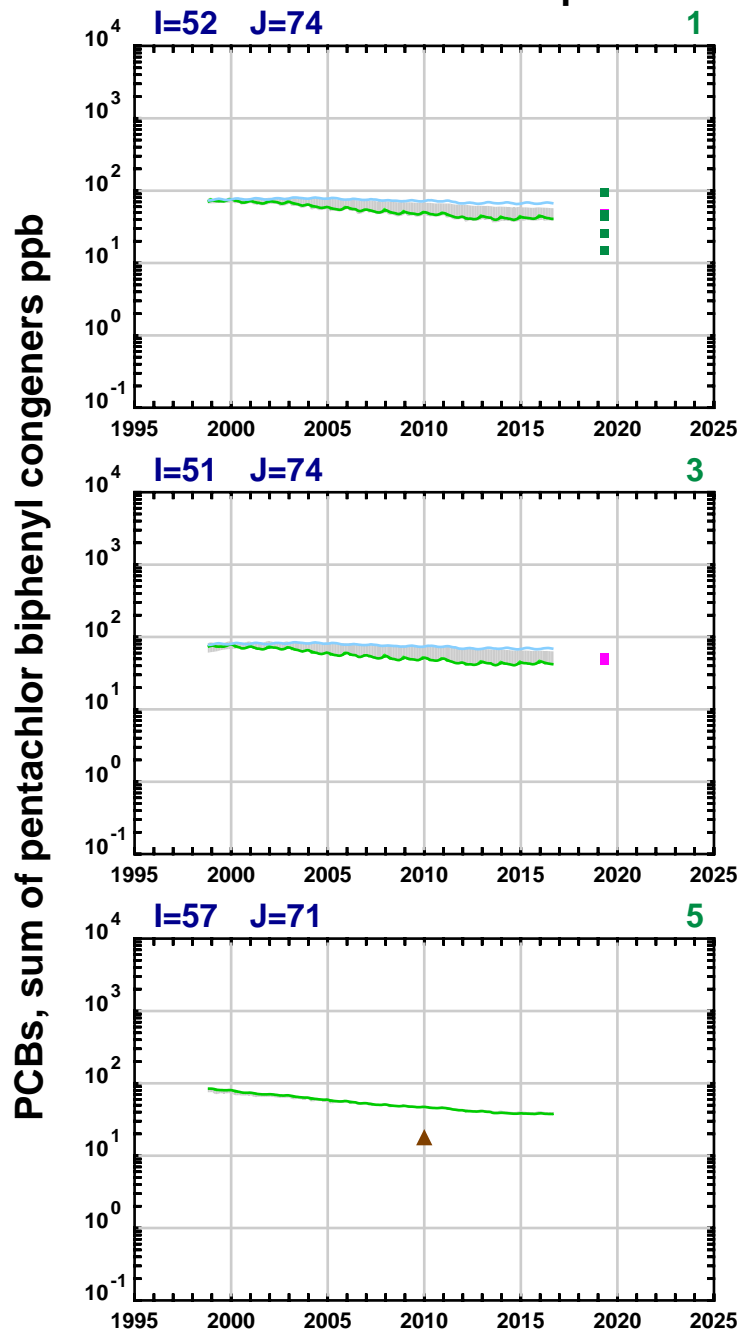


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

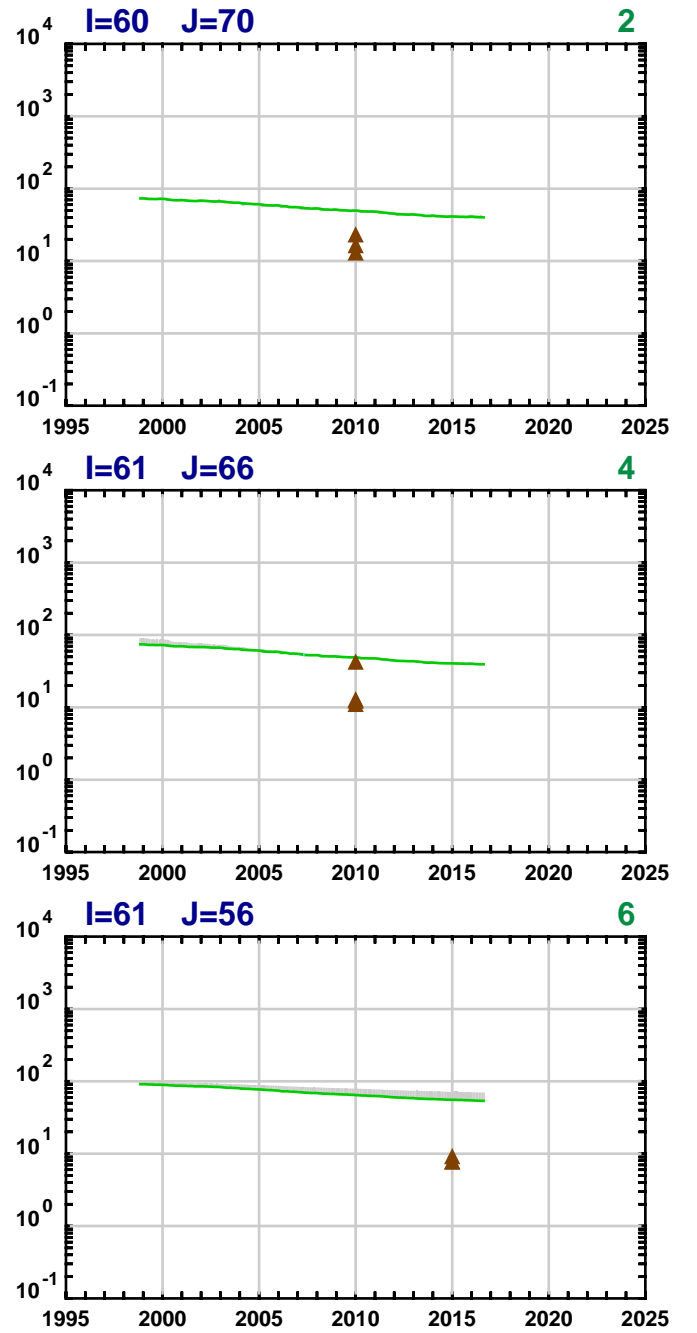
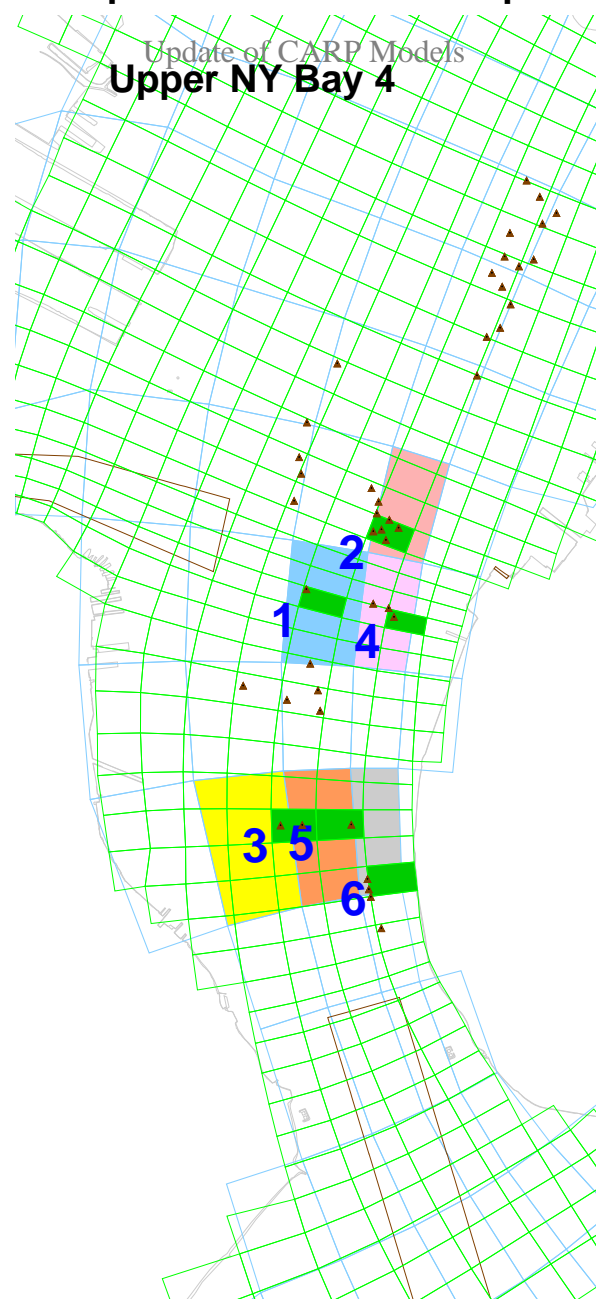
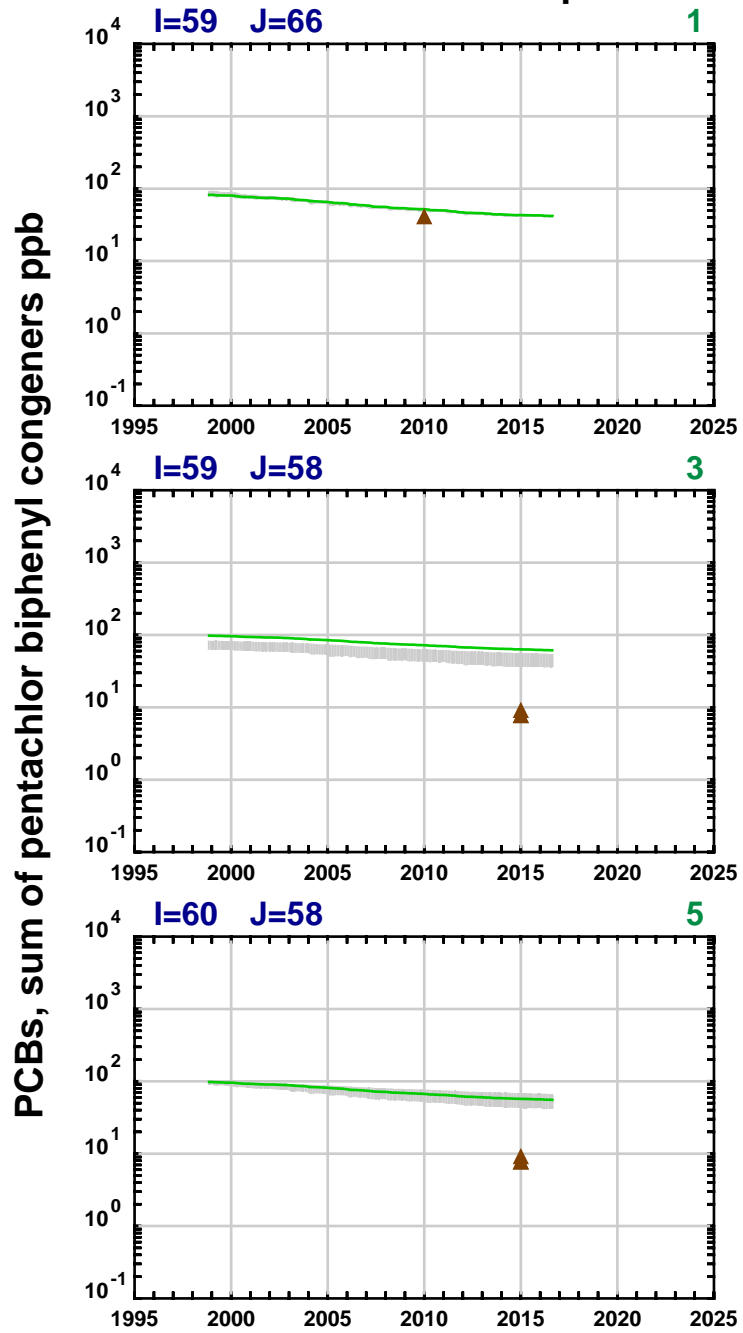


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

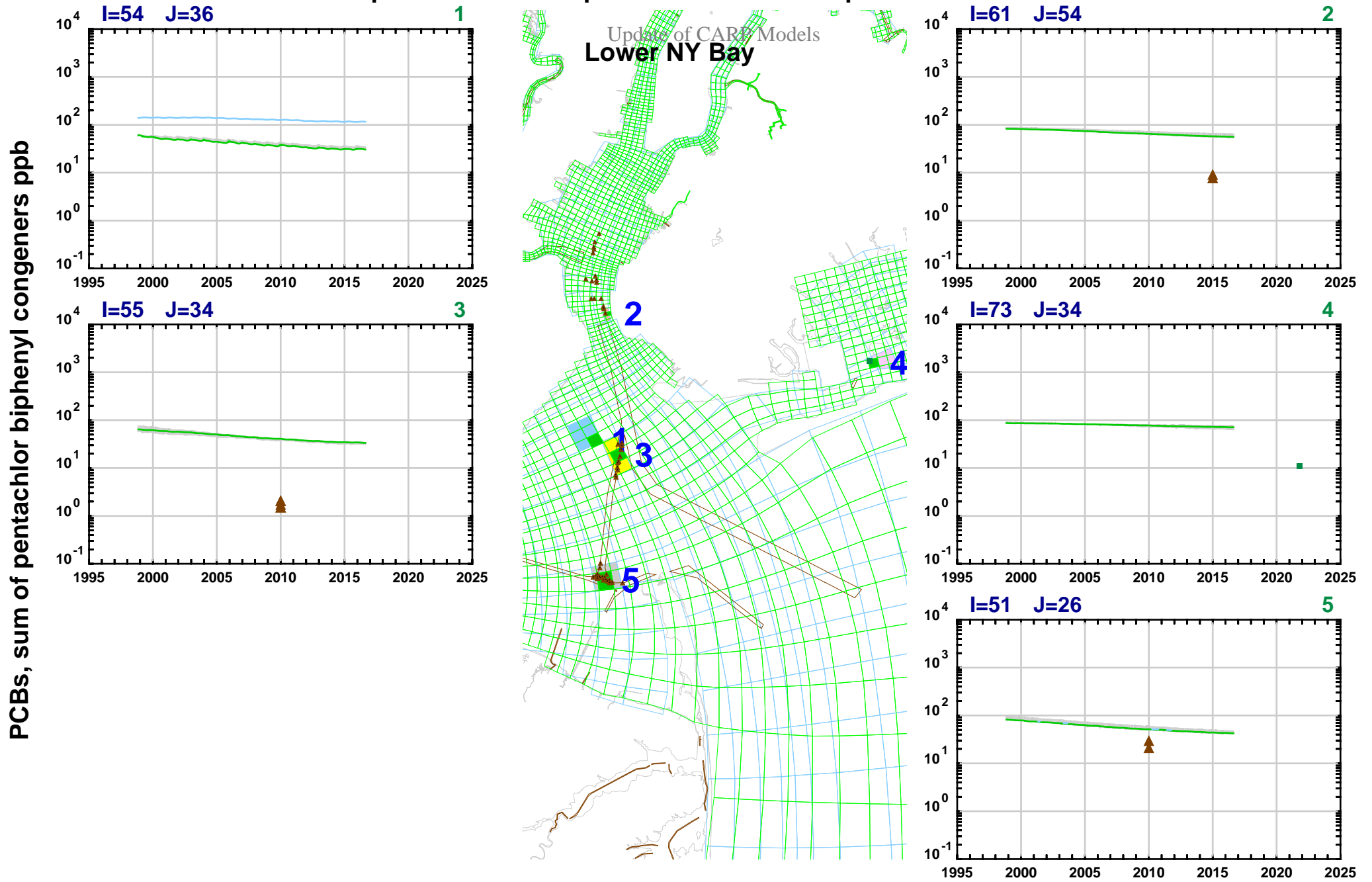


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

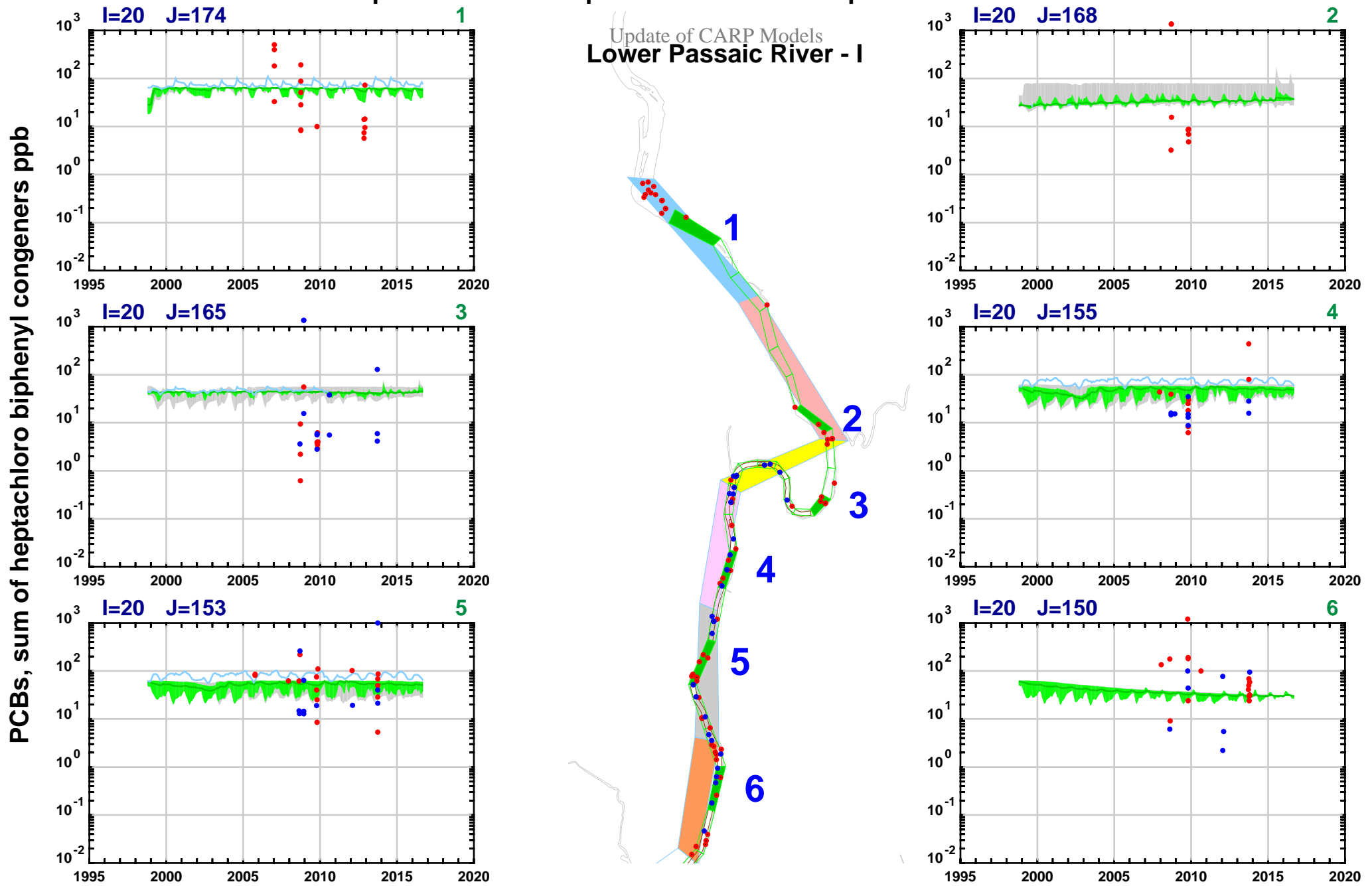


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



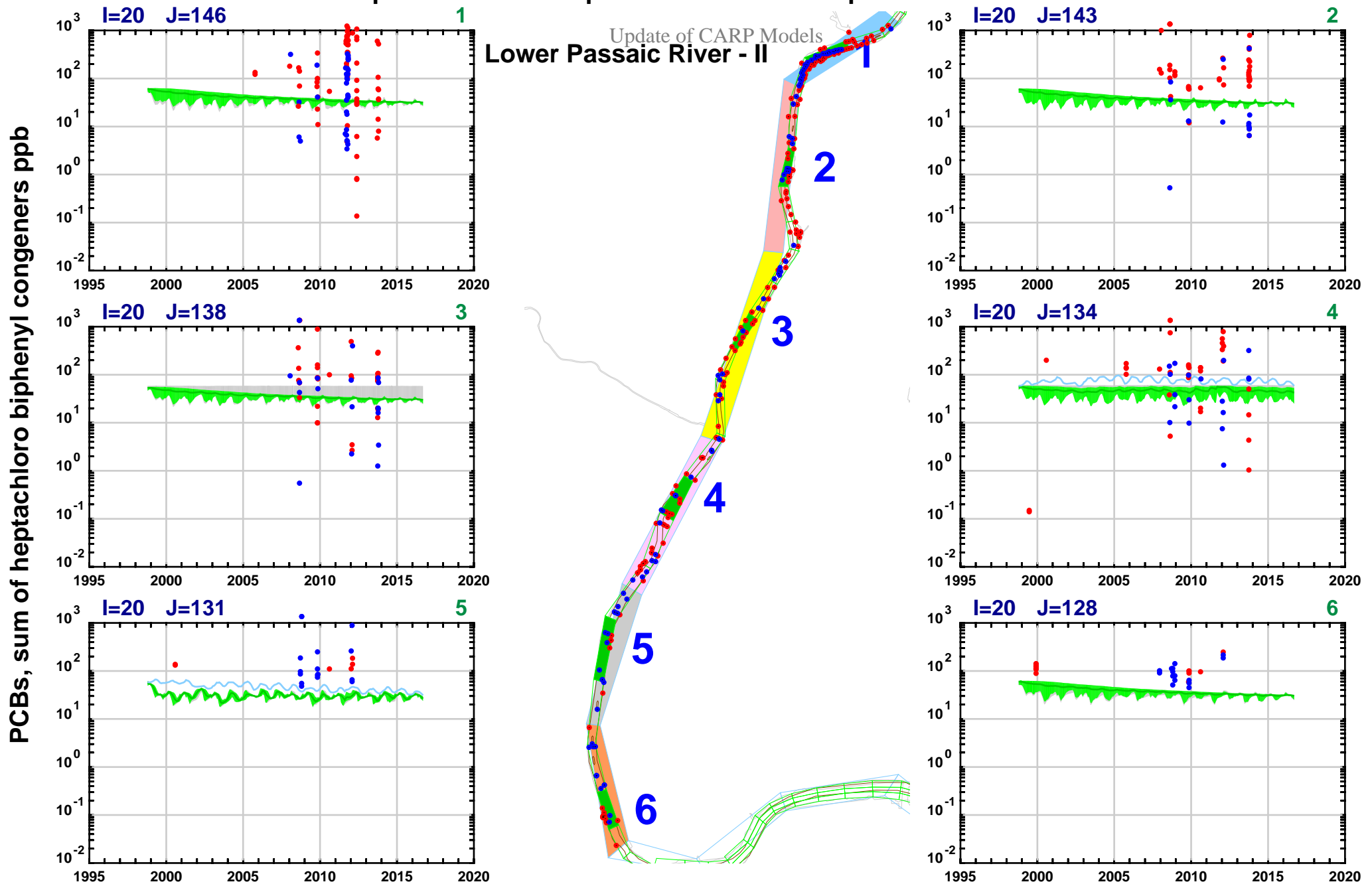
RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



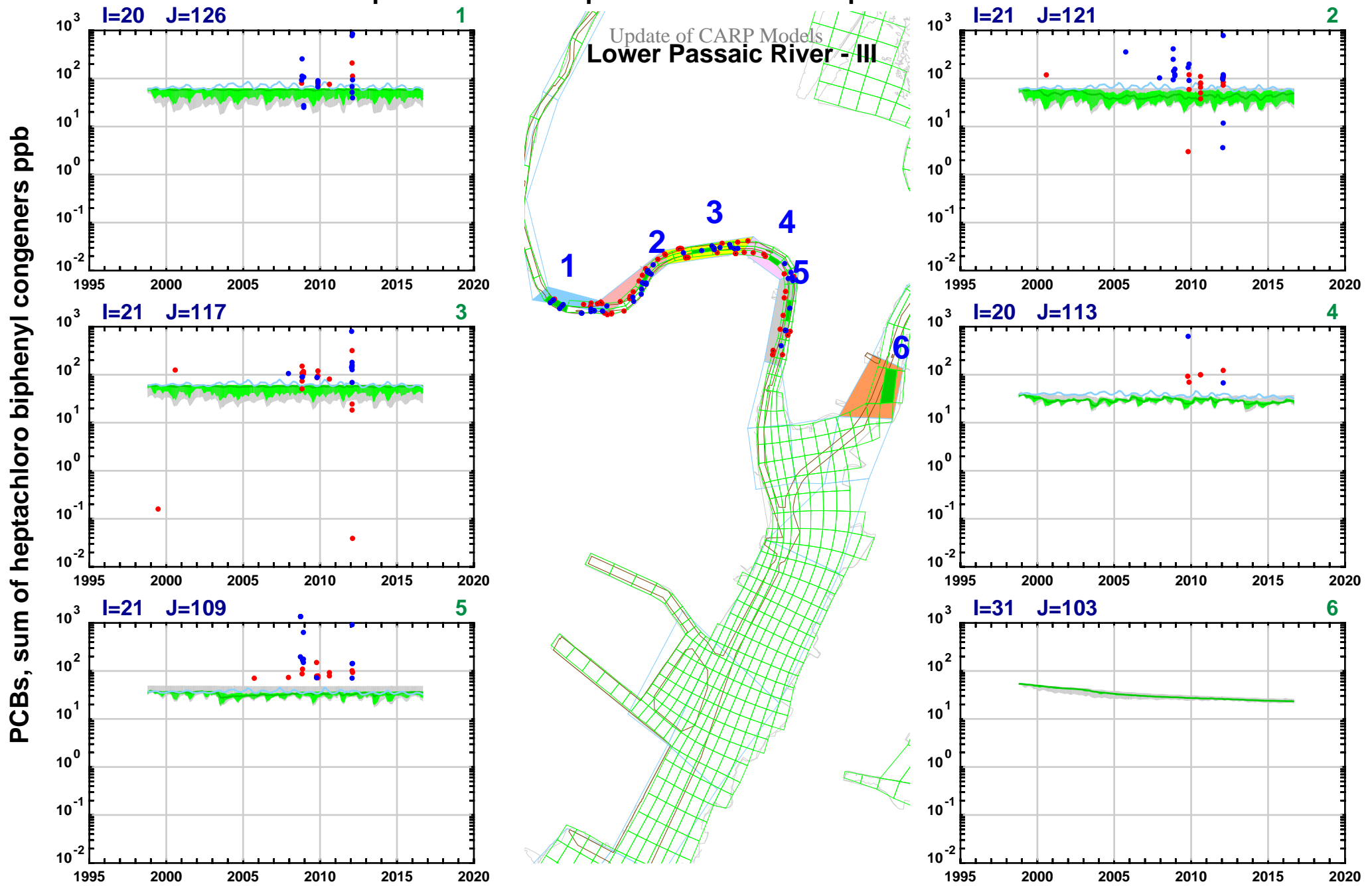
RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



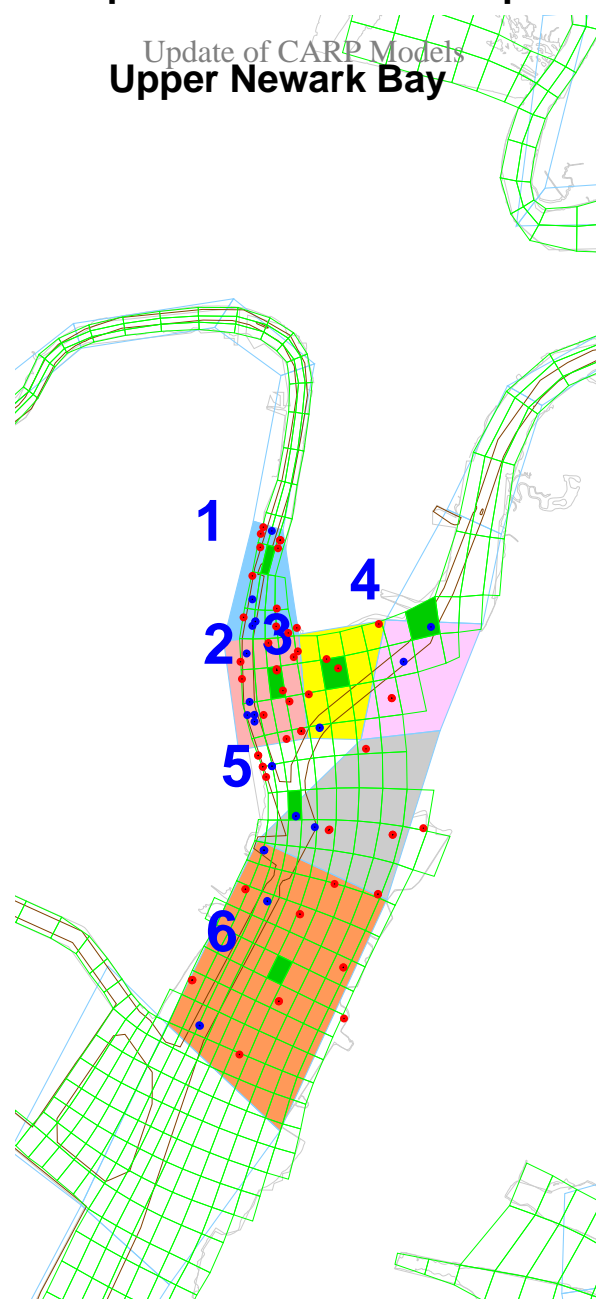
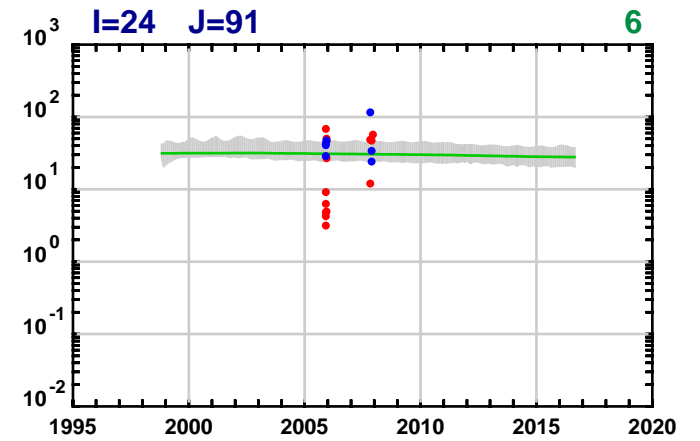
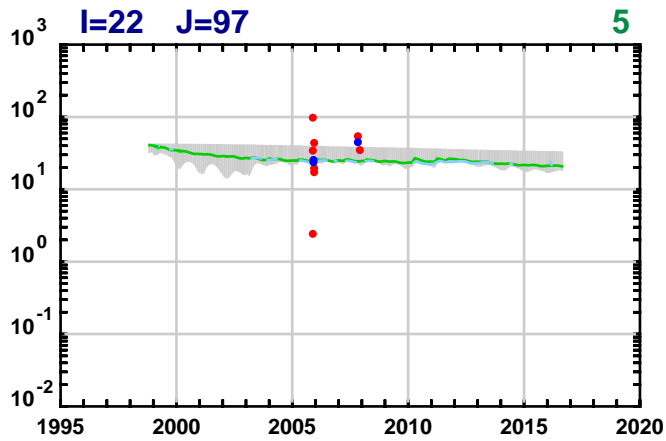
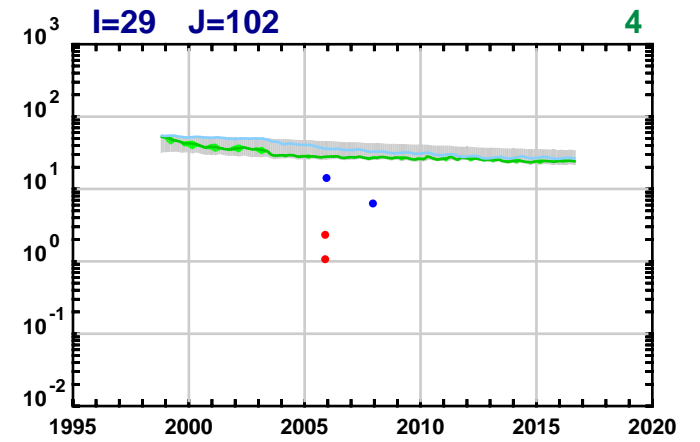
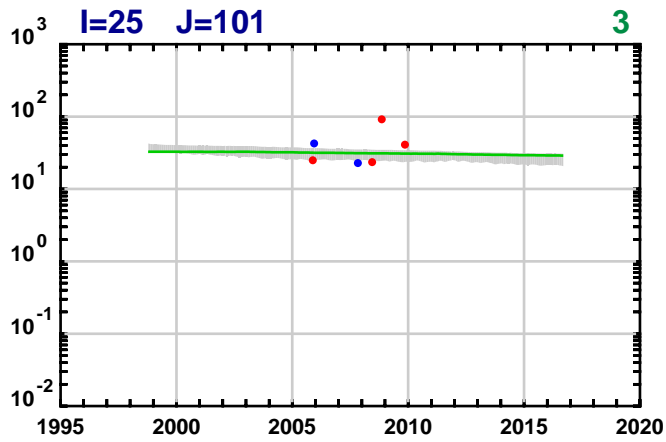
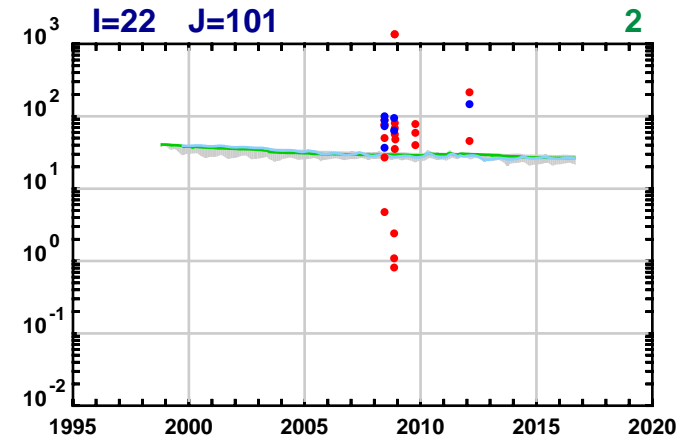
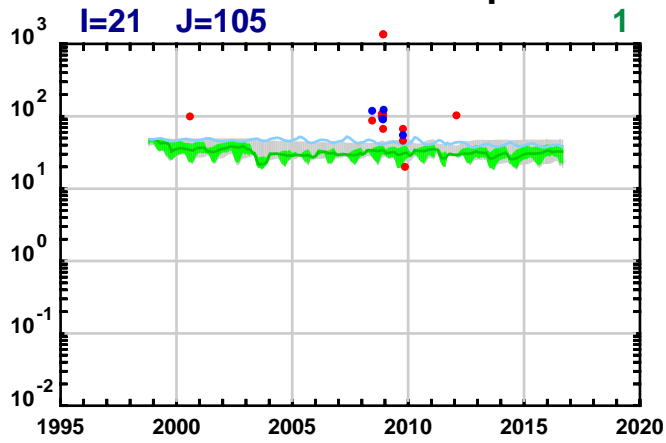
RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

PCBs, sum of heptachloro biphenyl congeners ppb

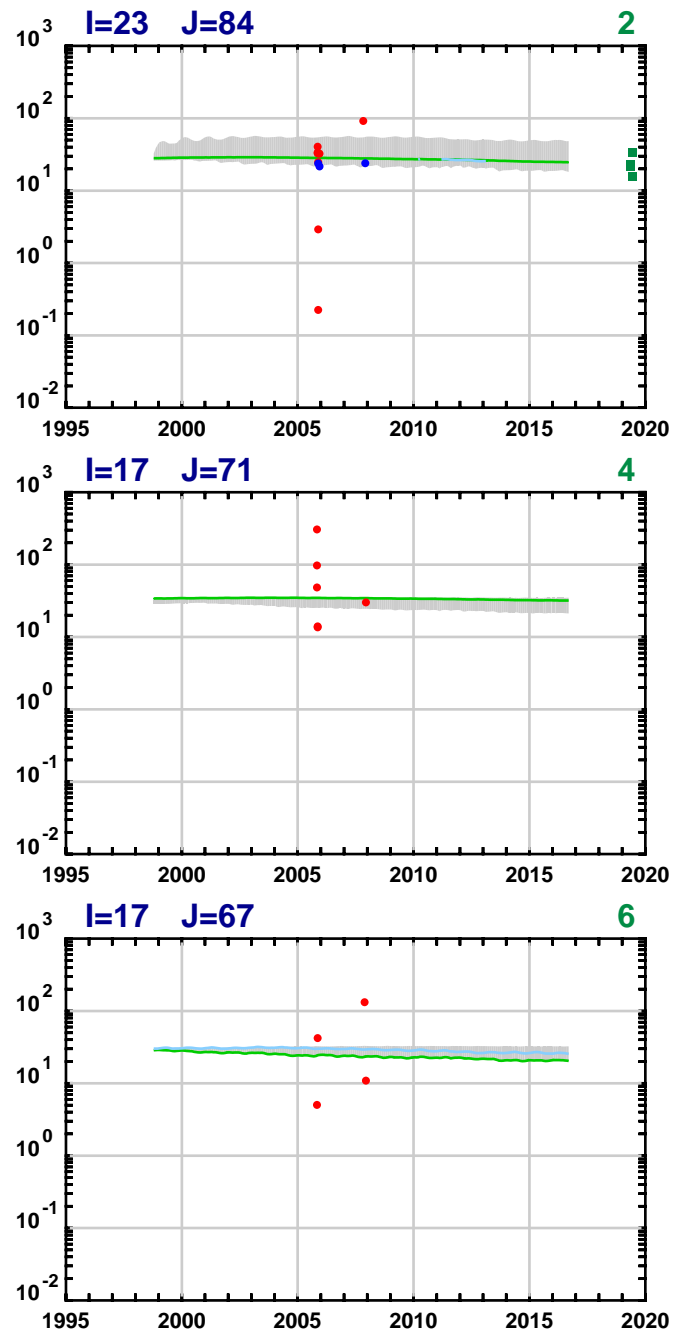
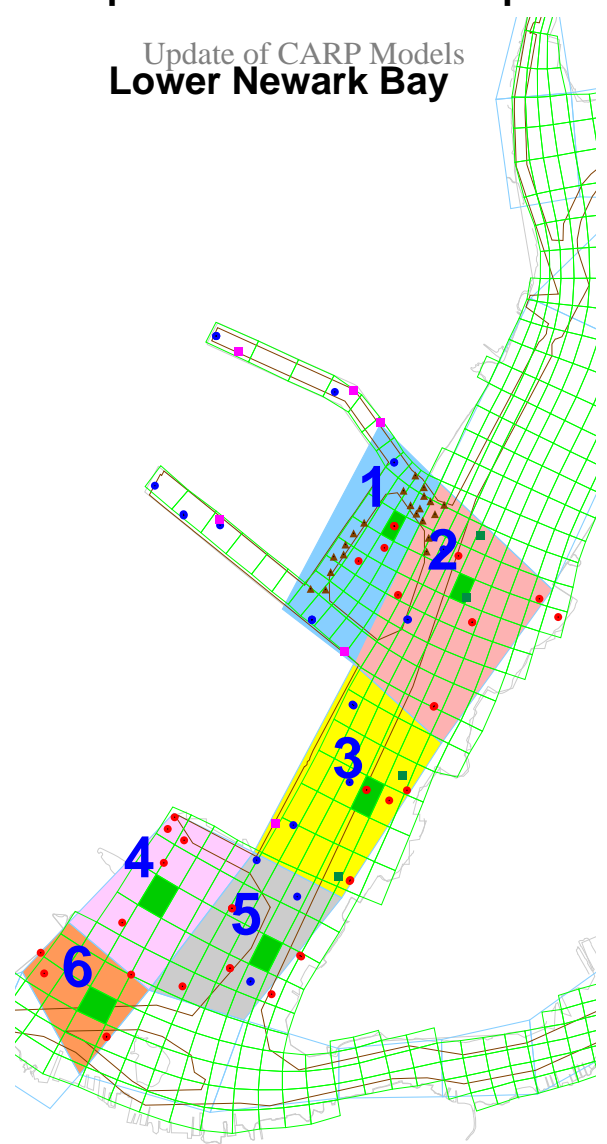
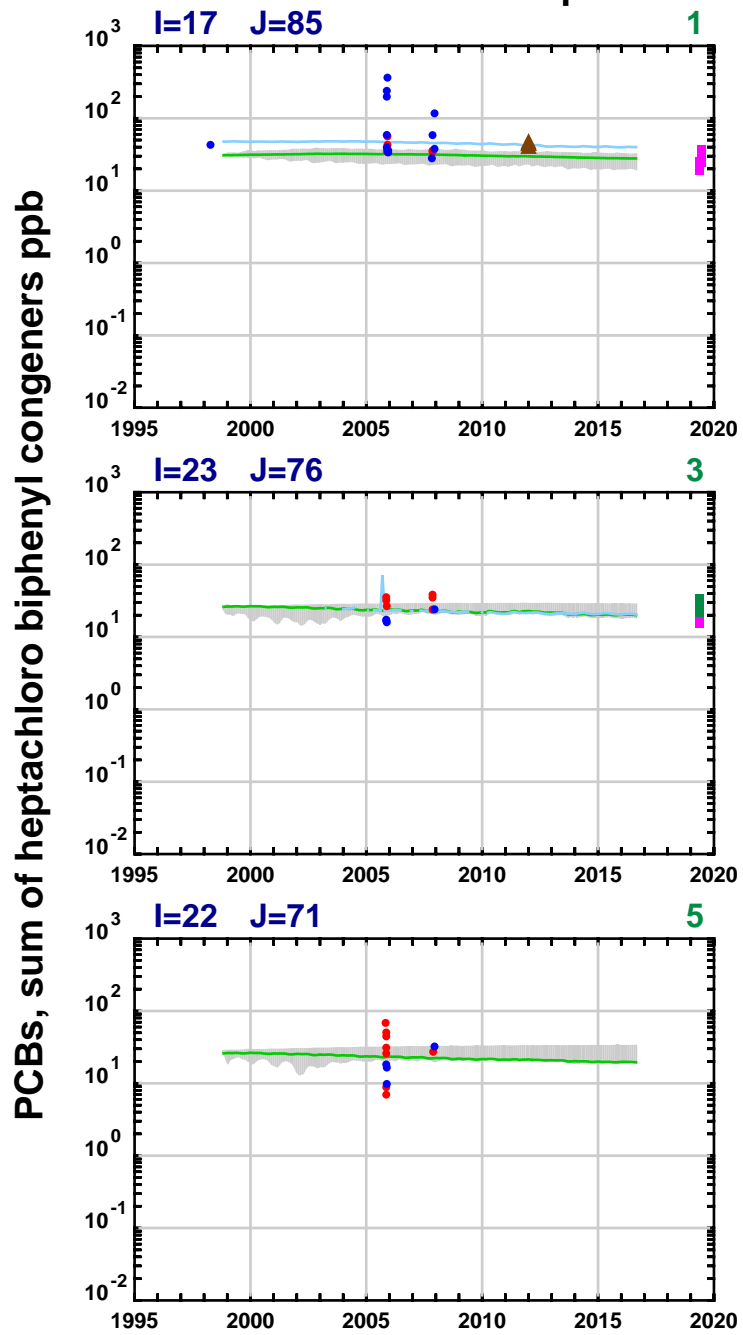


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

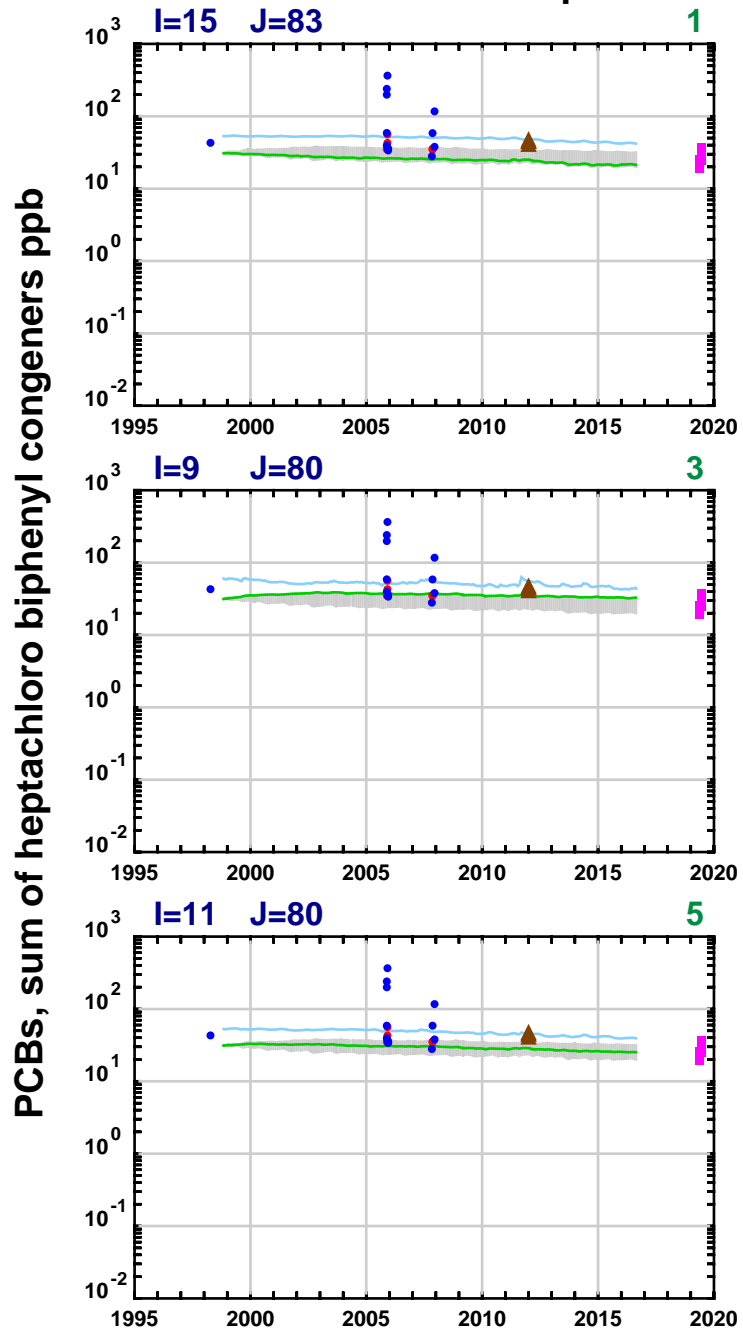


RUN18\_S2

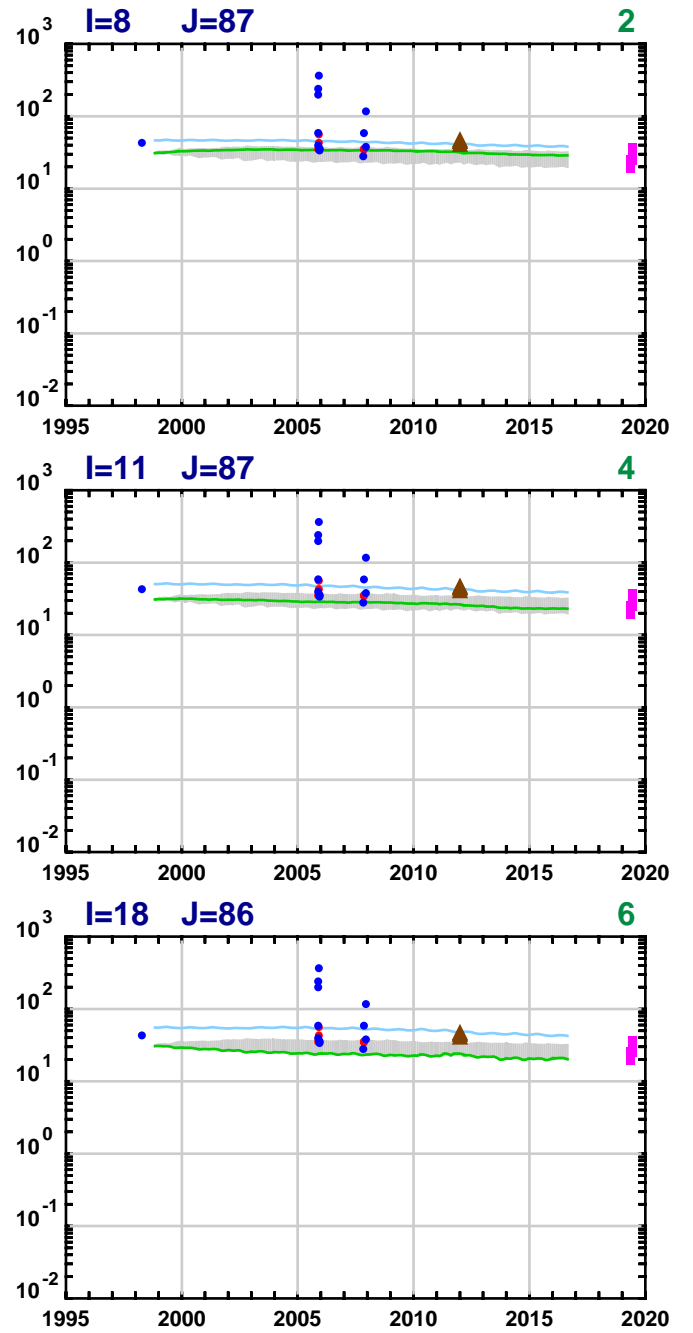
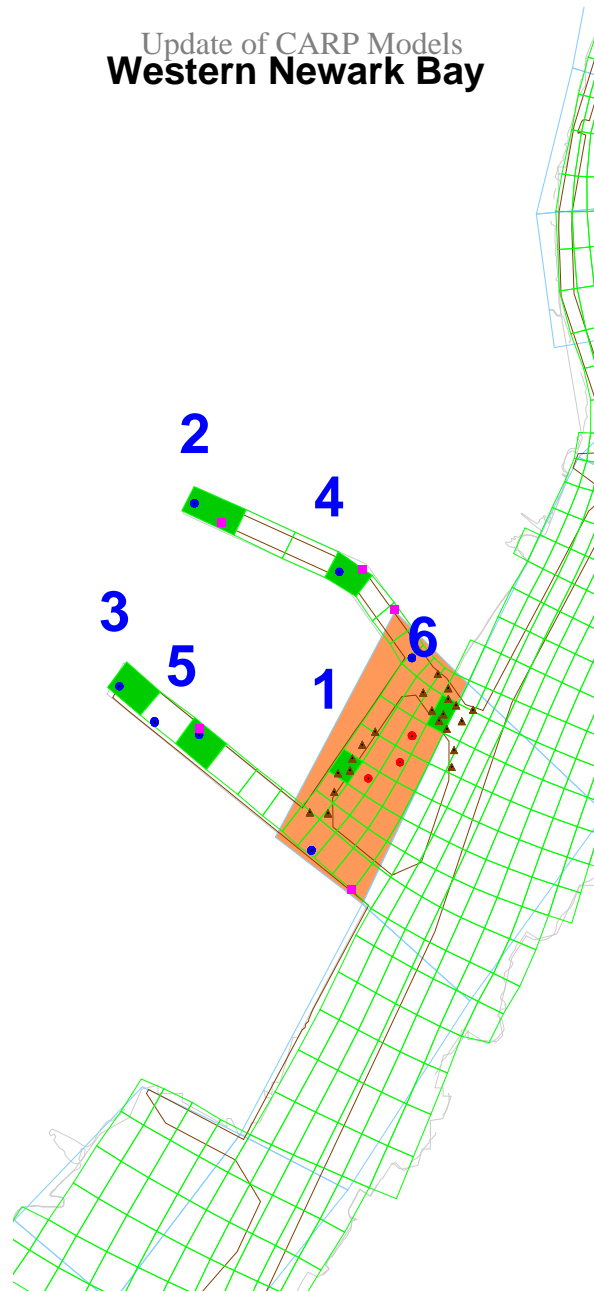
Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

- In-channel data
- Off-channel data
- ▲ Dredge data
- CARP2 In-channel
- CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



## Update of CARP Models Western Newark Bay



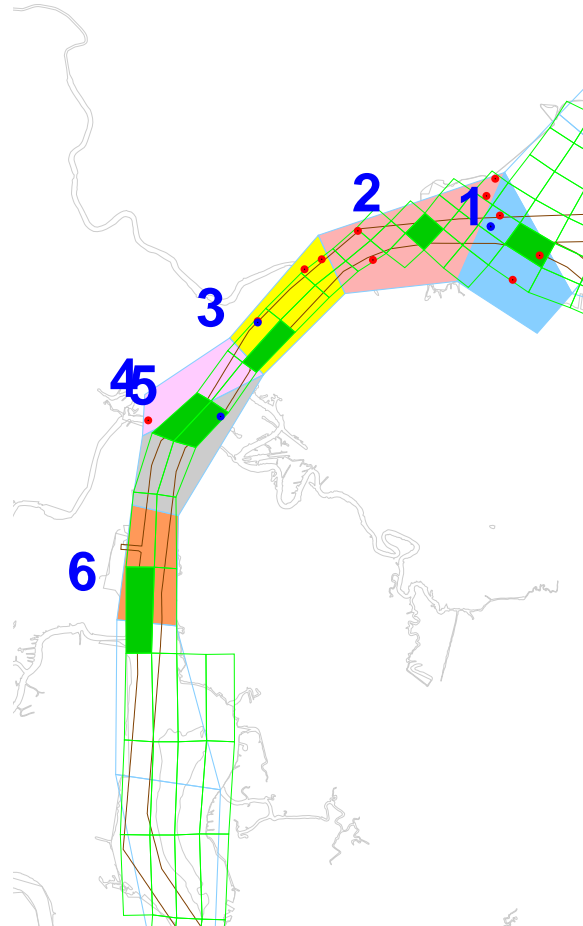
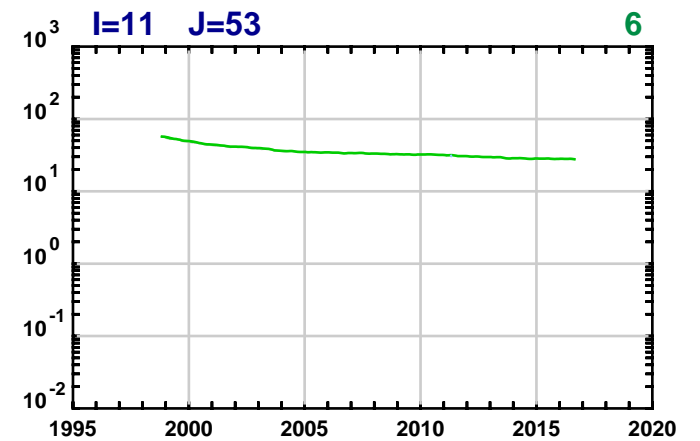
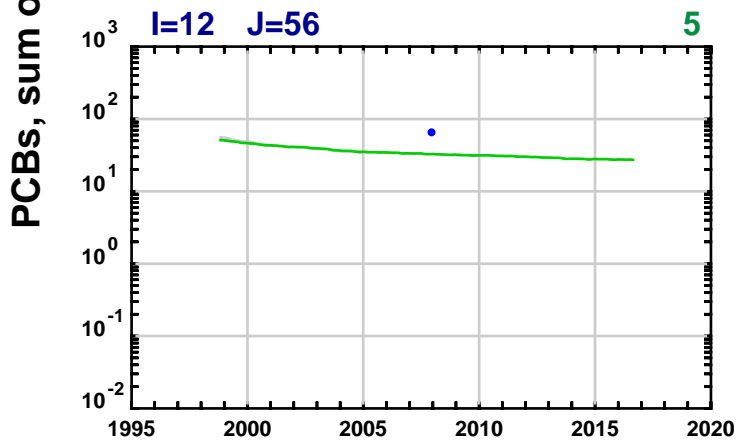
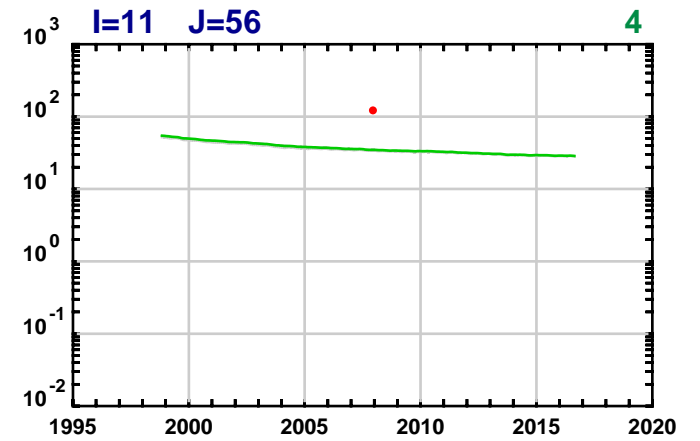
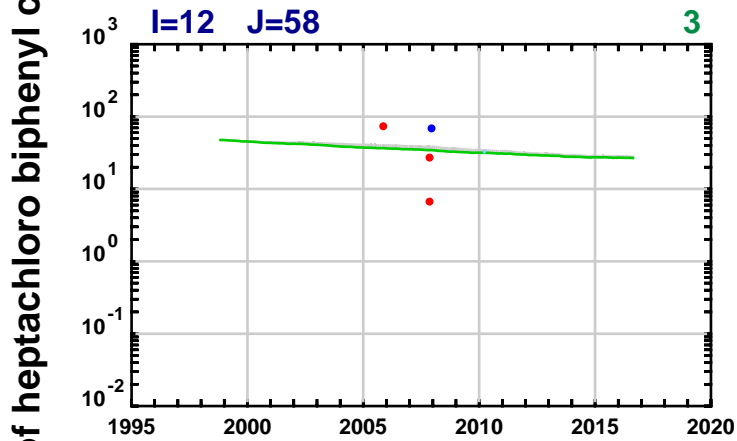
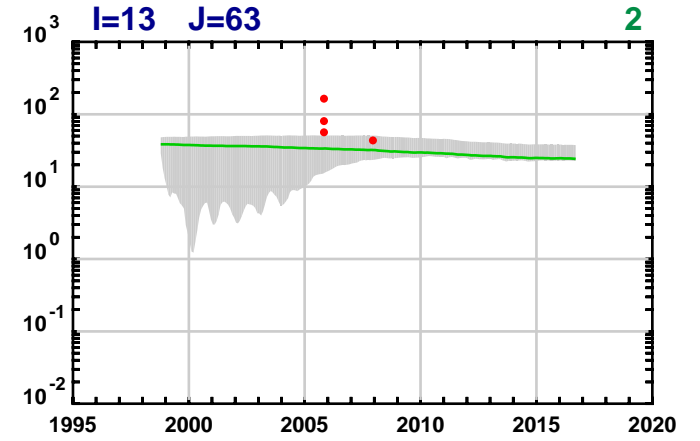
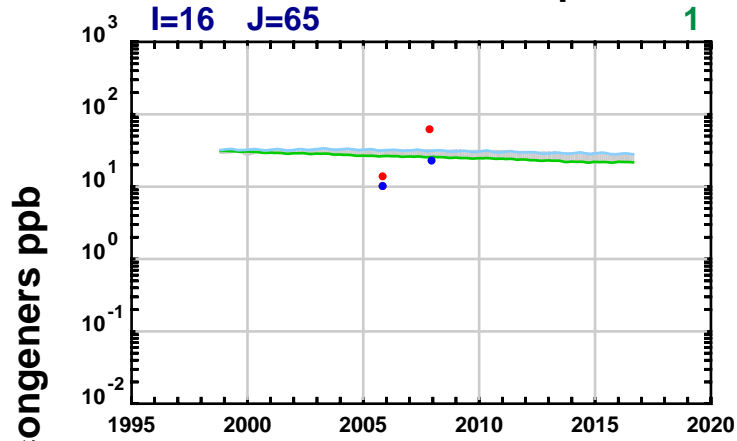
**RUN18\_S2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

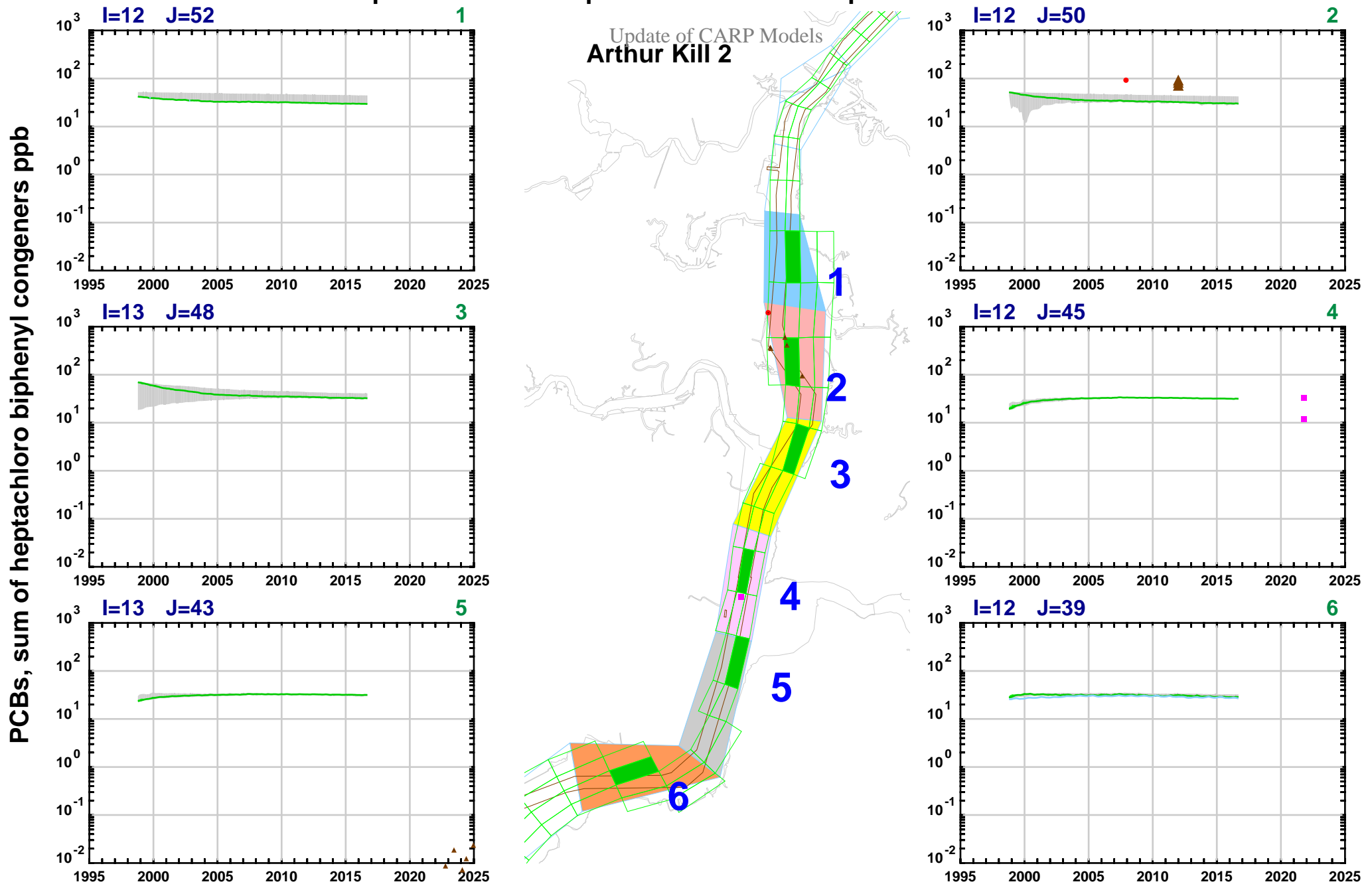


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



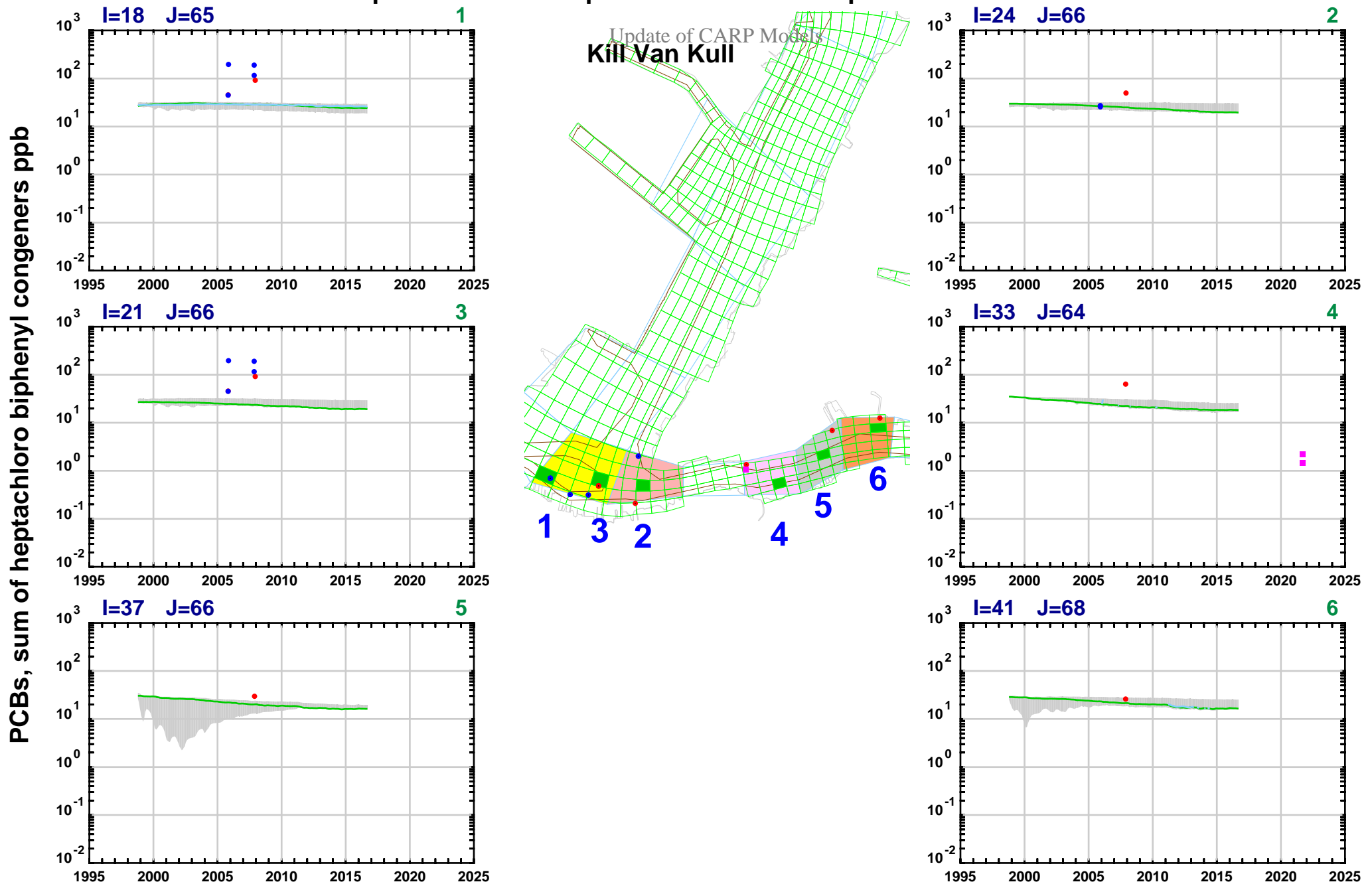
Update of CARP Models  
Arthur Kill 2

RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



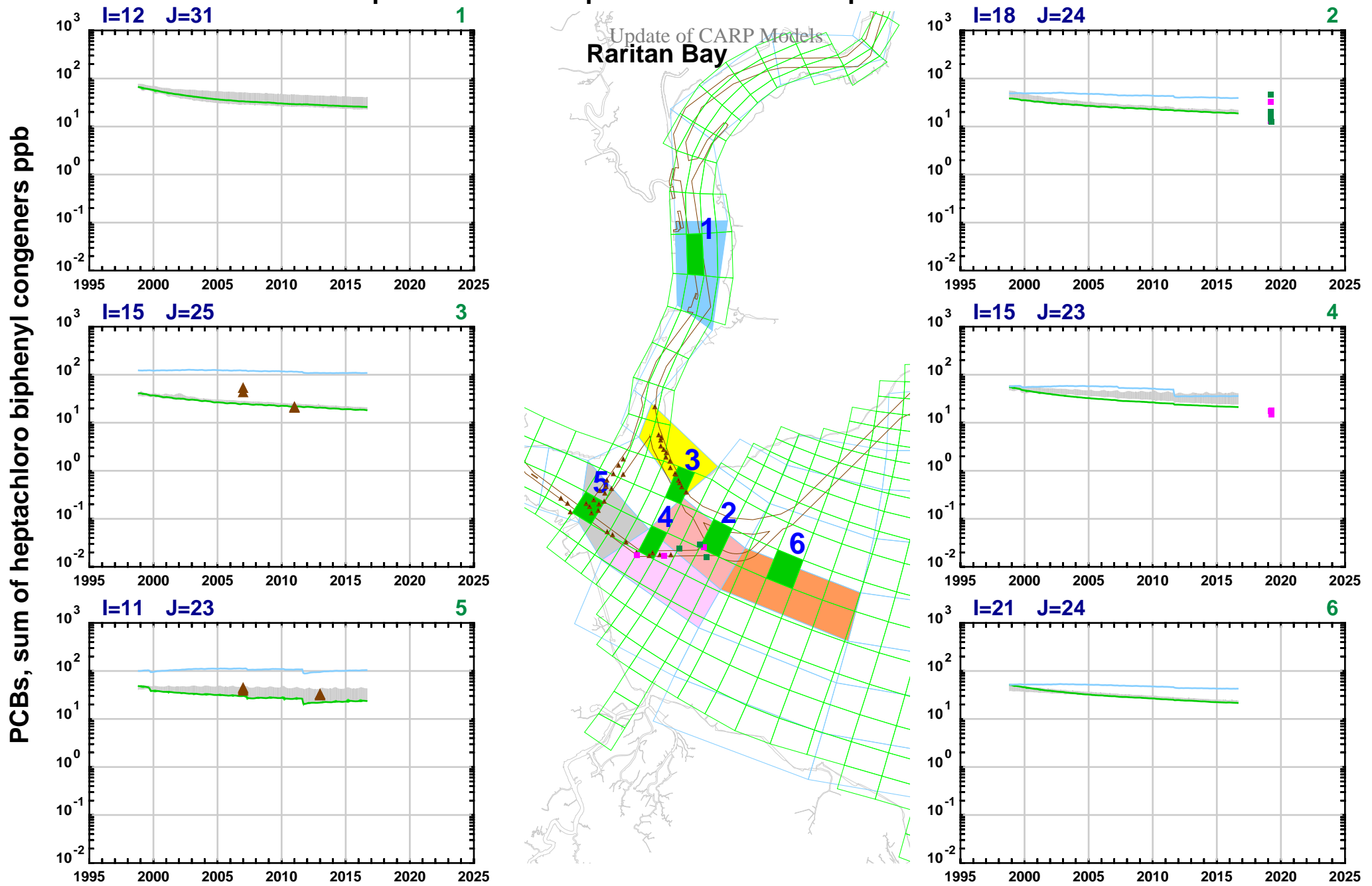
**RUN18\_S2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

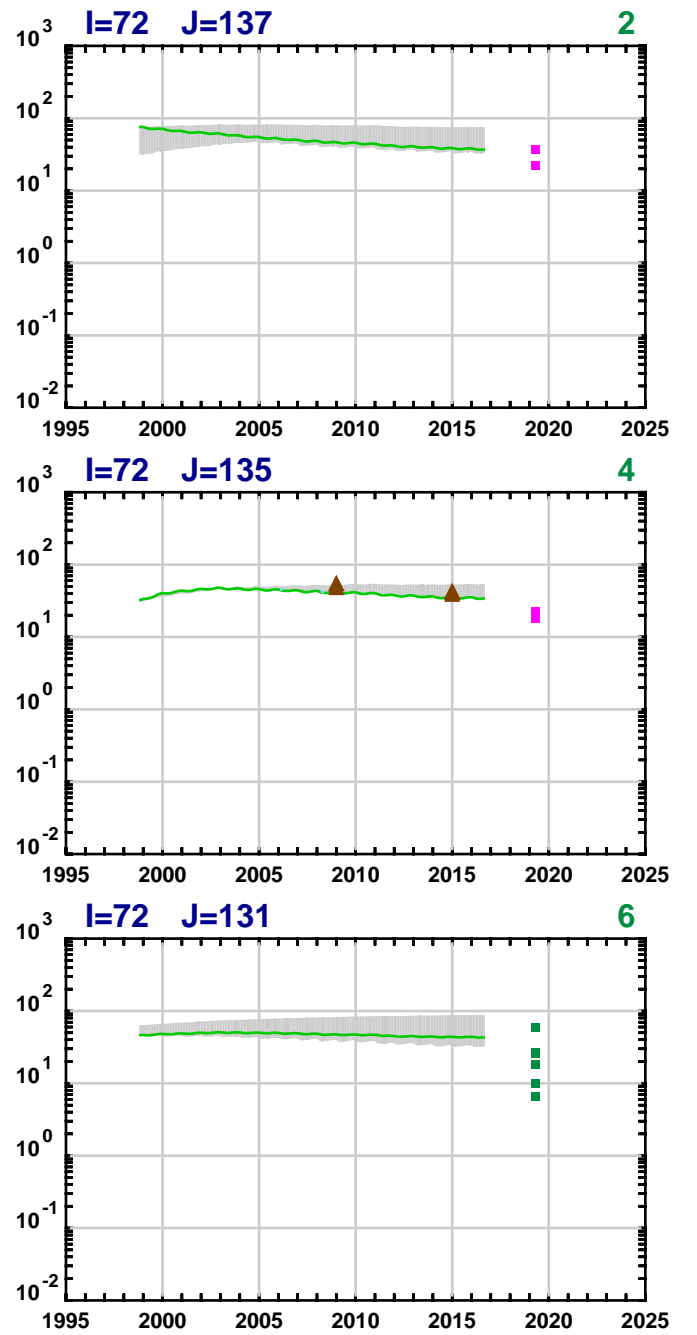
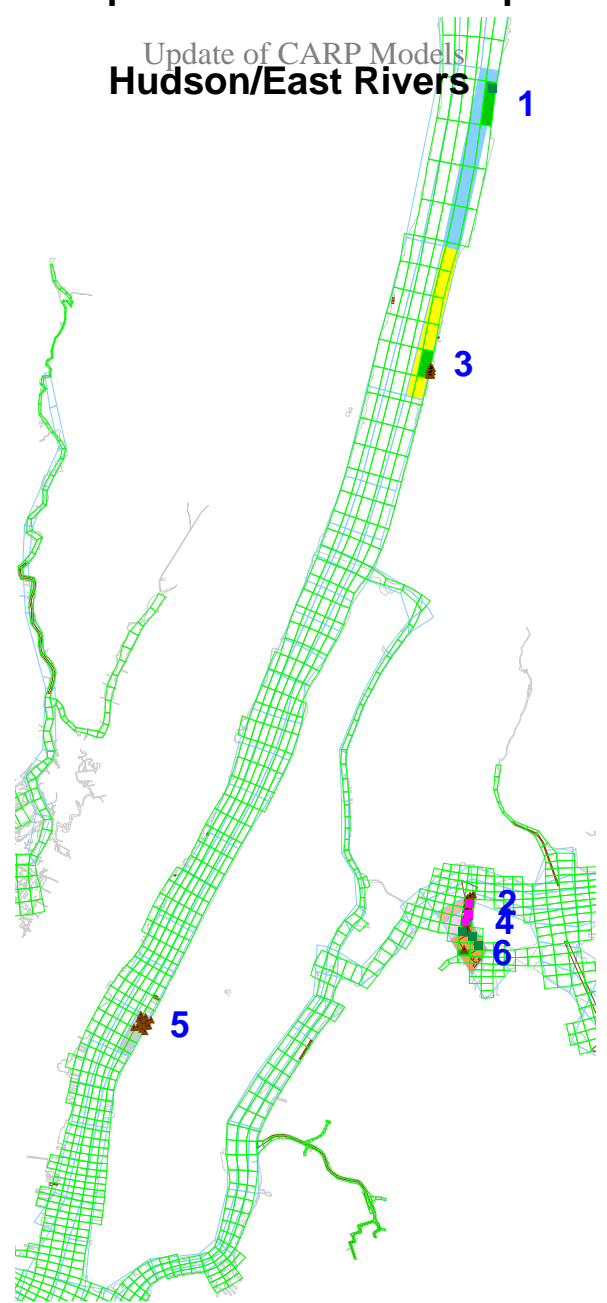
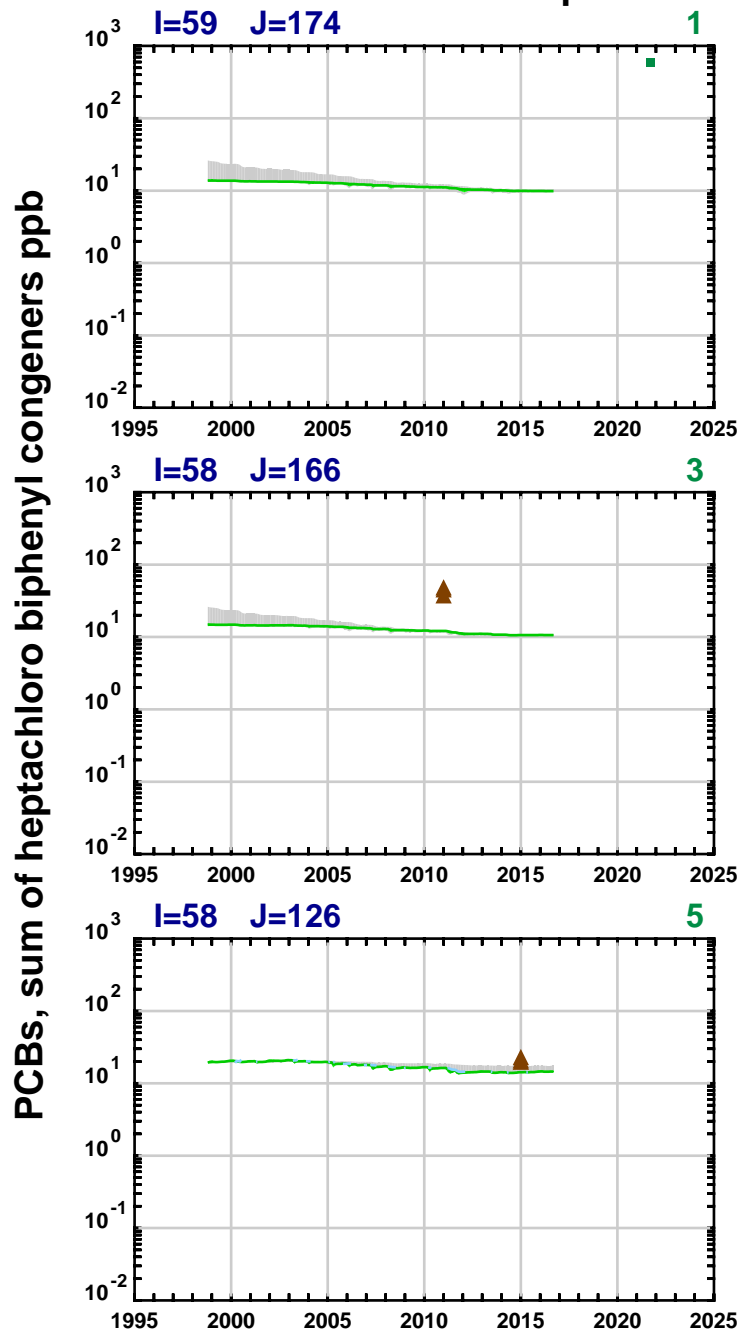


**RUN18\_S2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

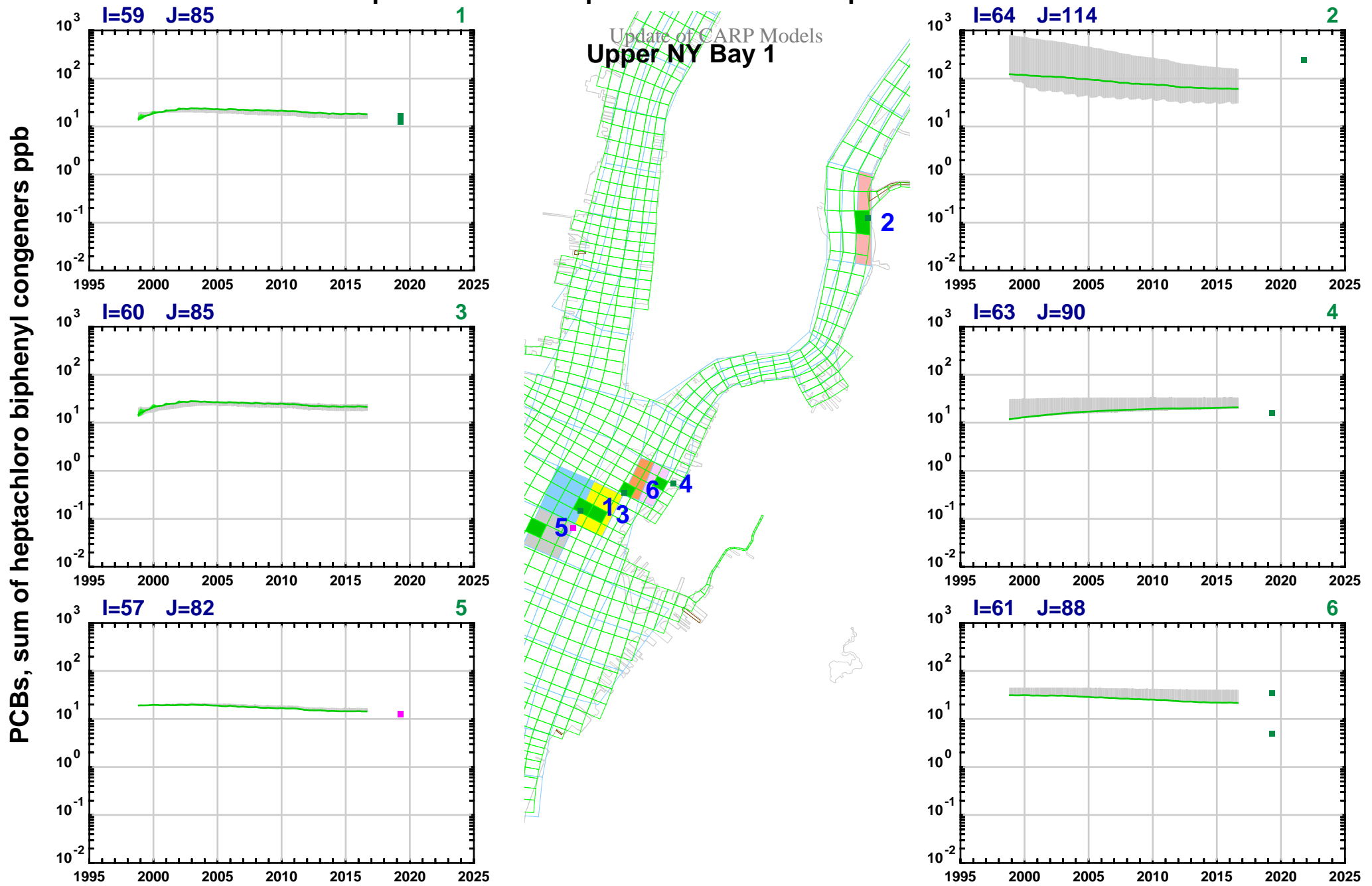


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

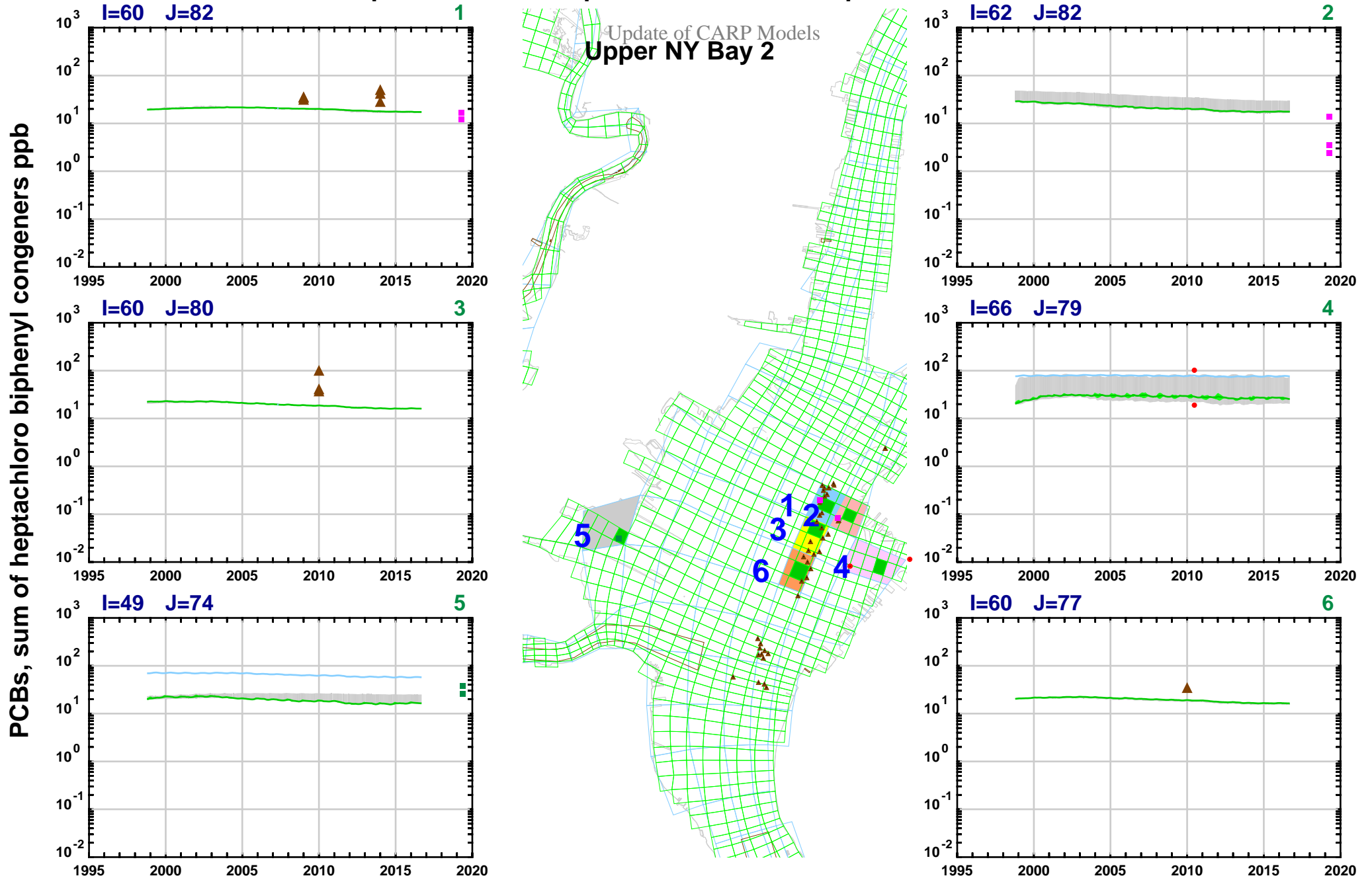


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



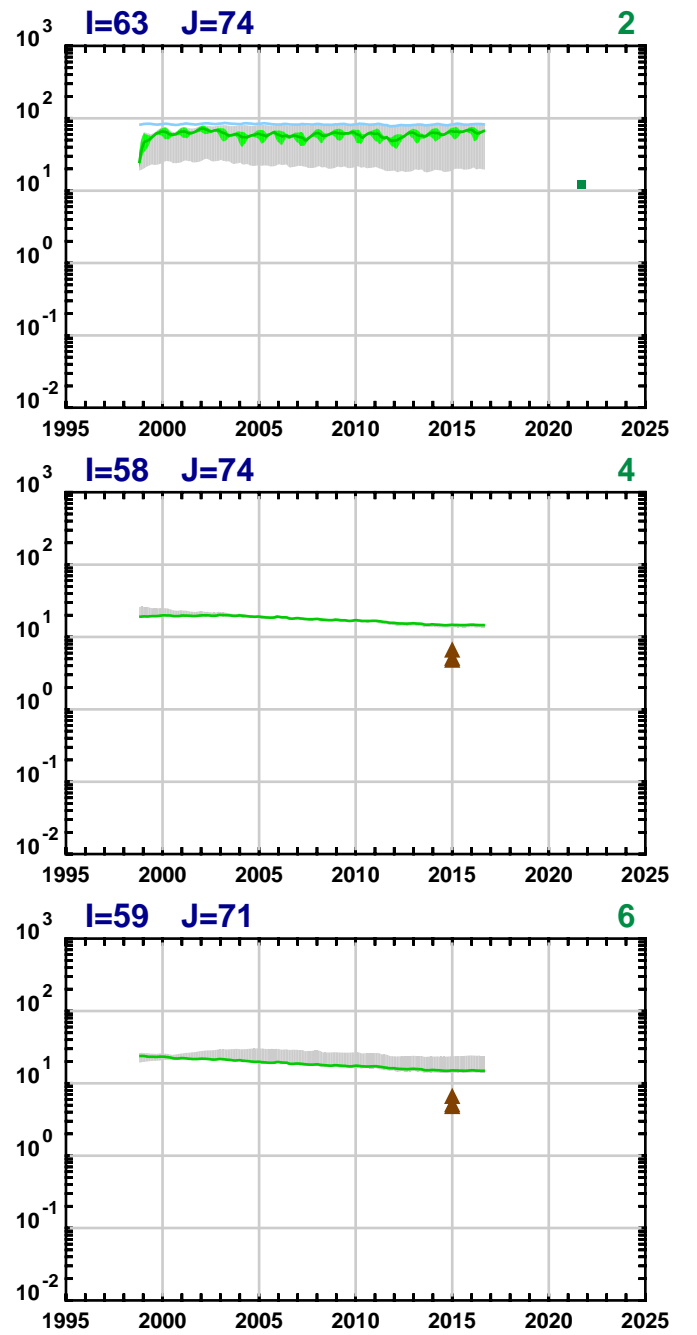
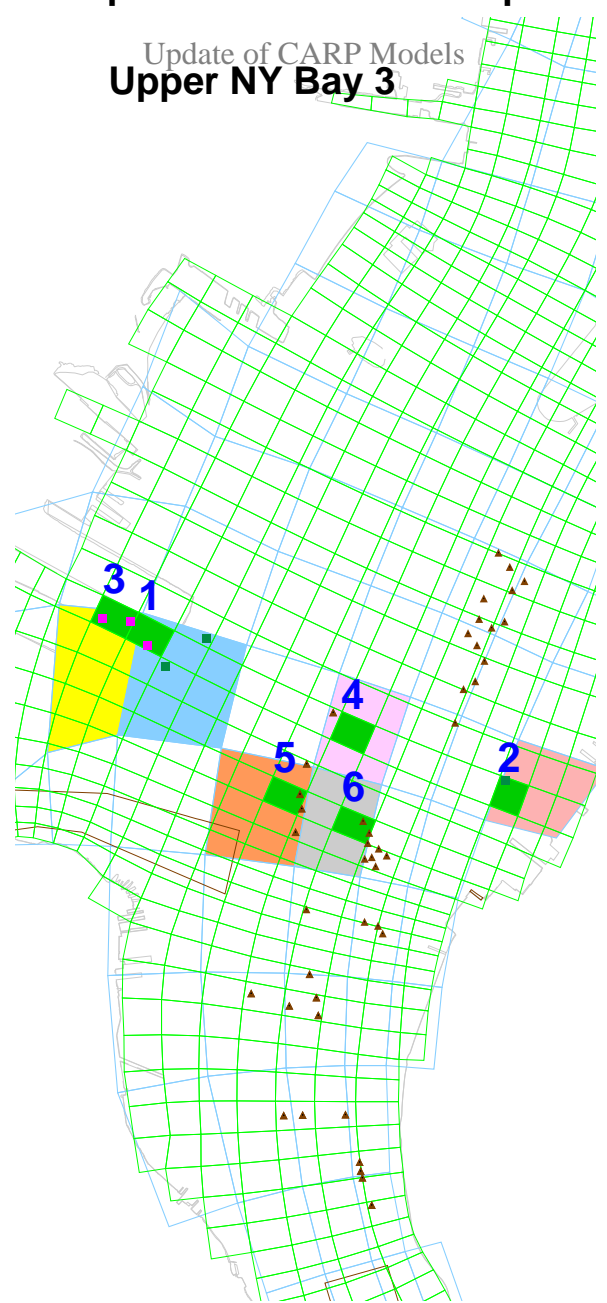
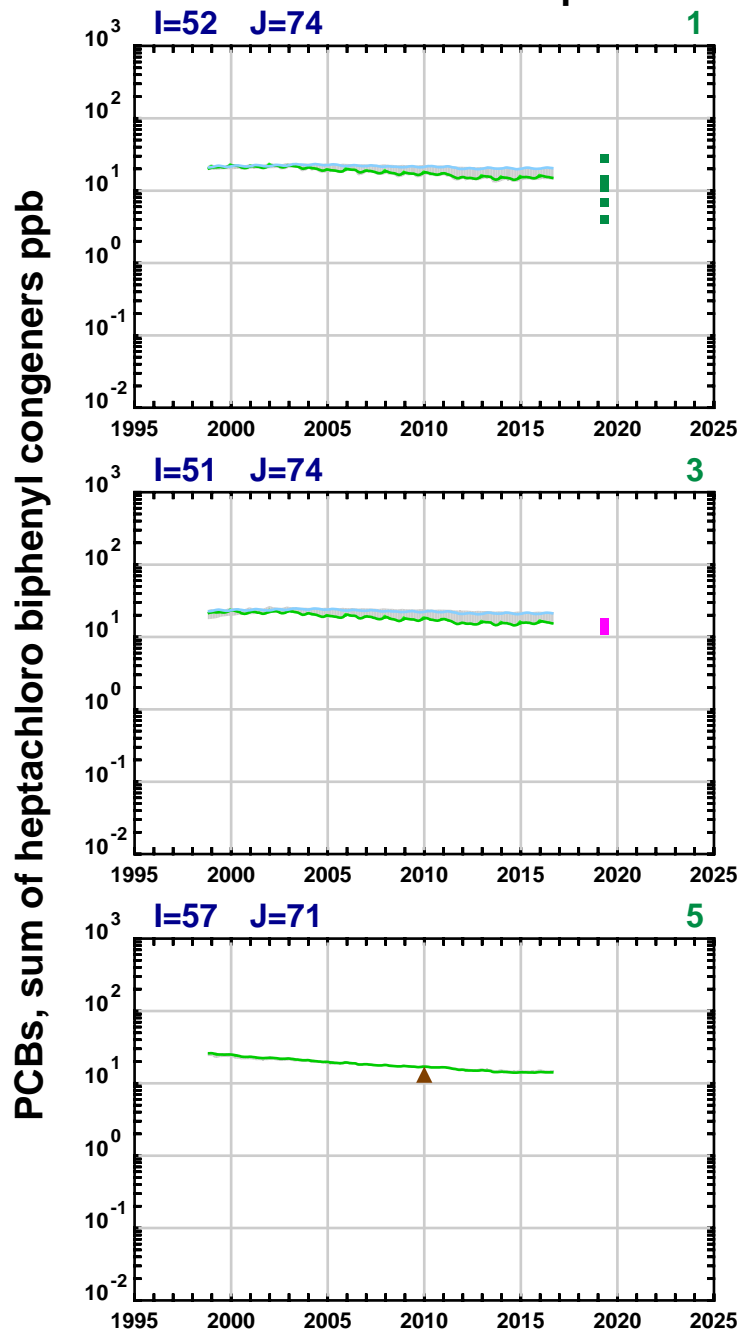
Update of CARP Models  
Upper NY Bay 2

RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

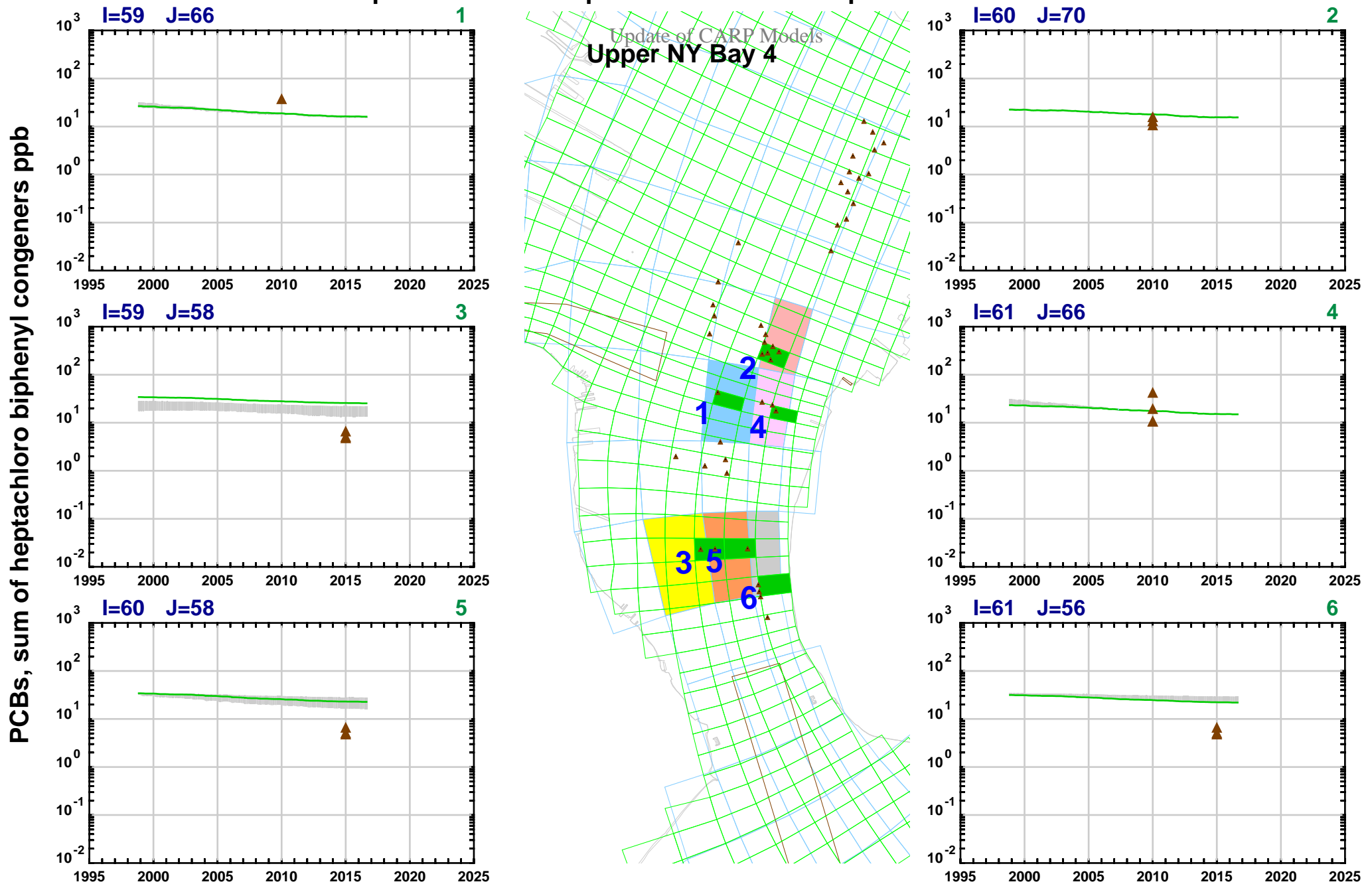


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



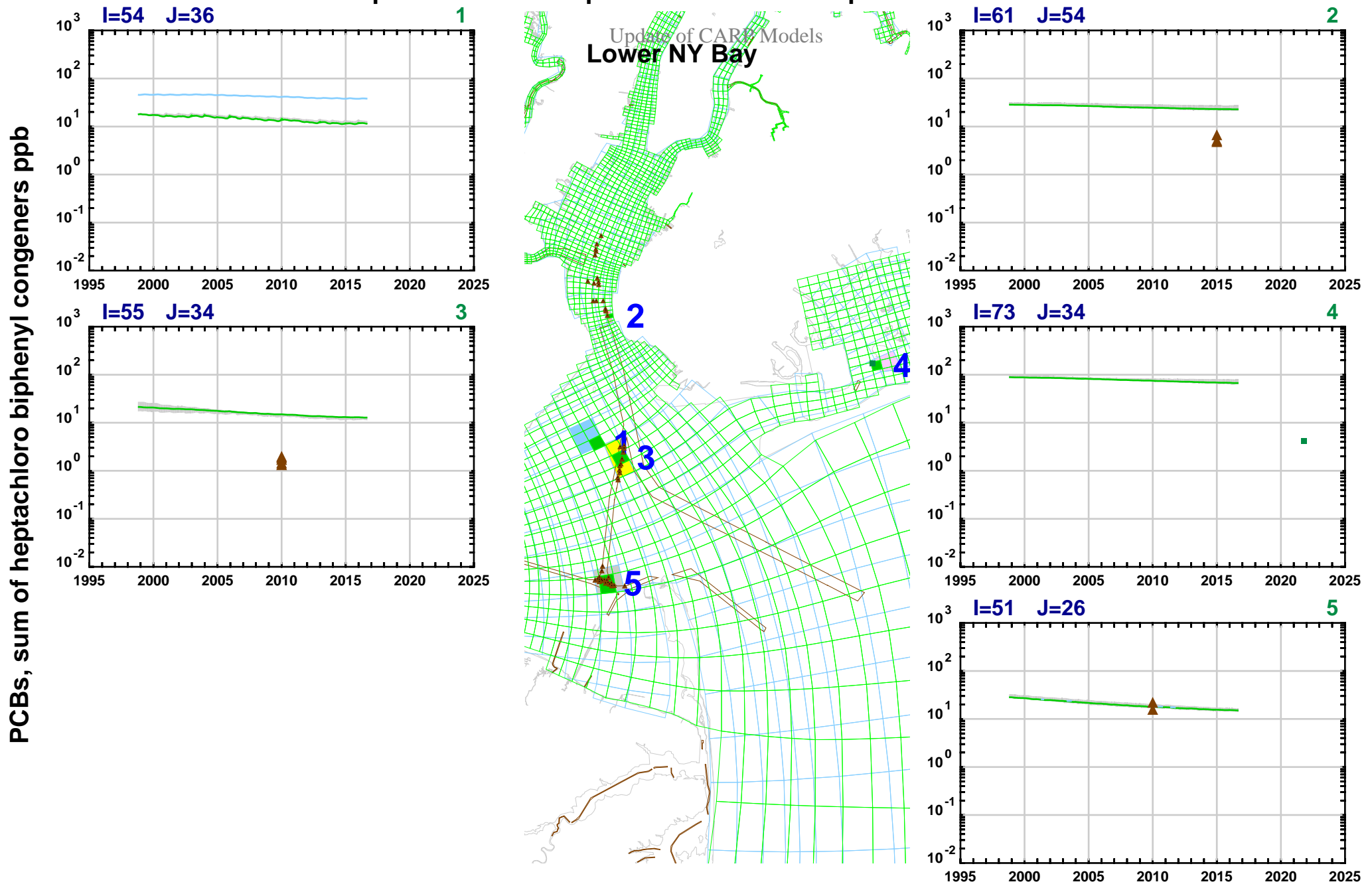
RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



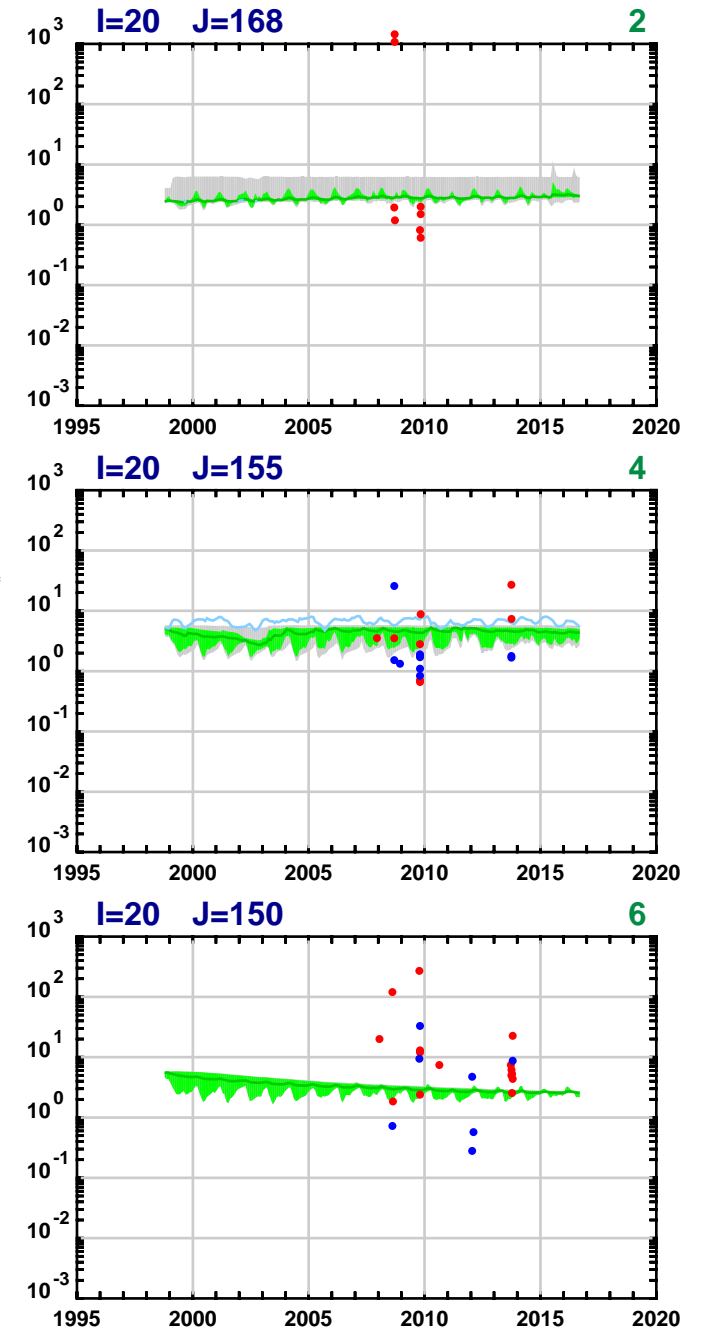
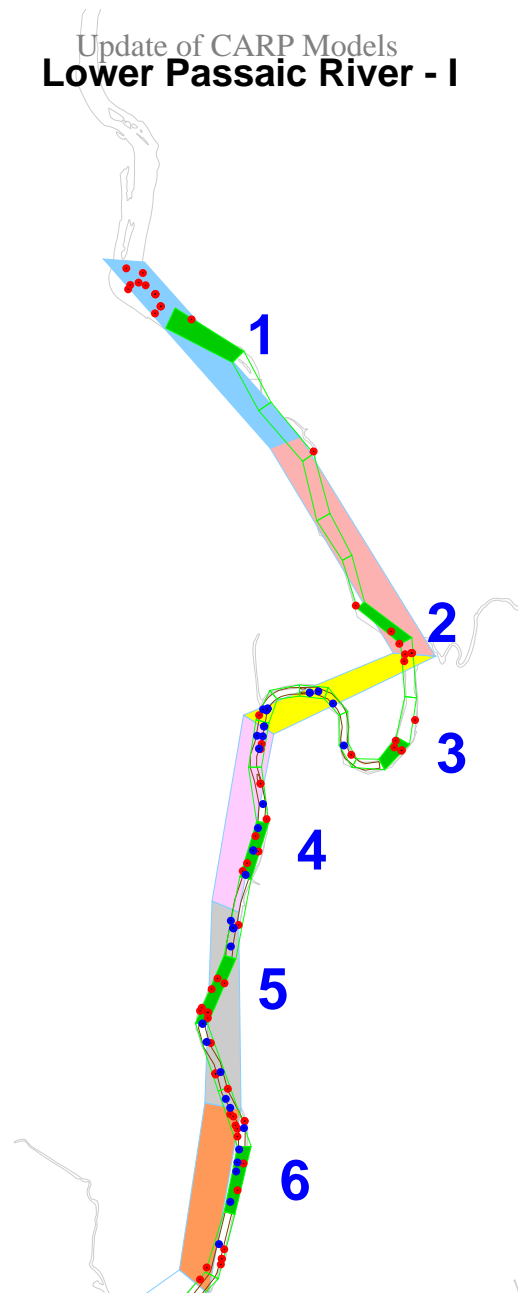
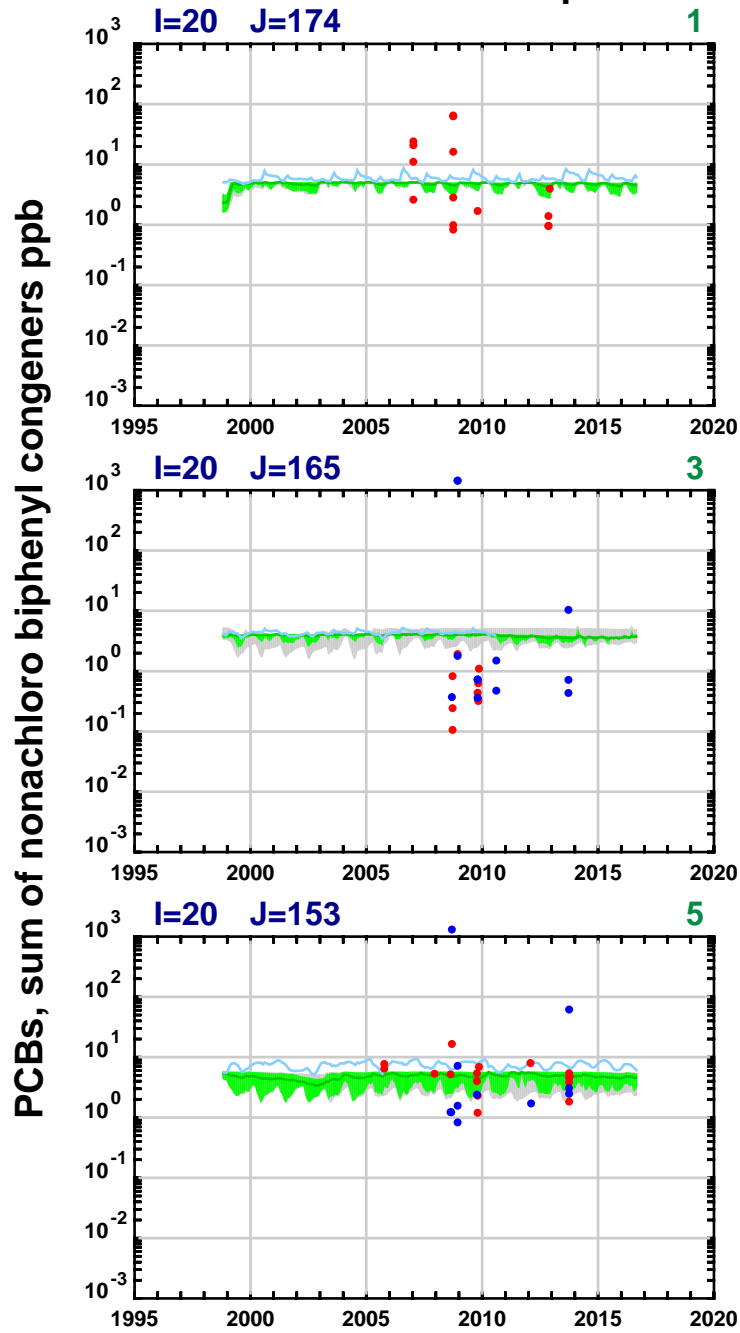
RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

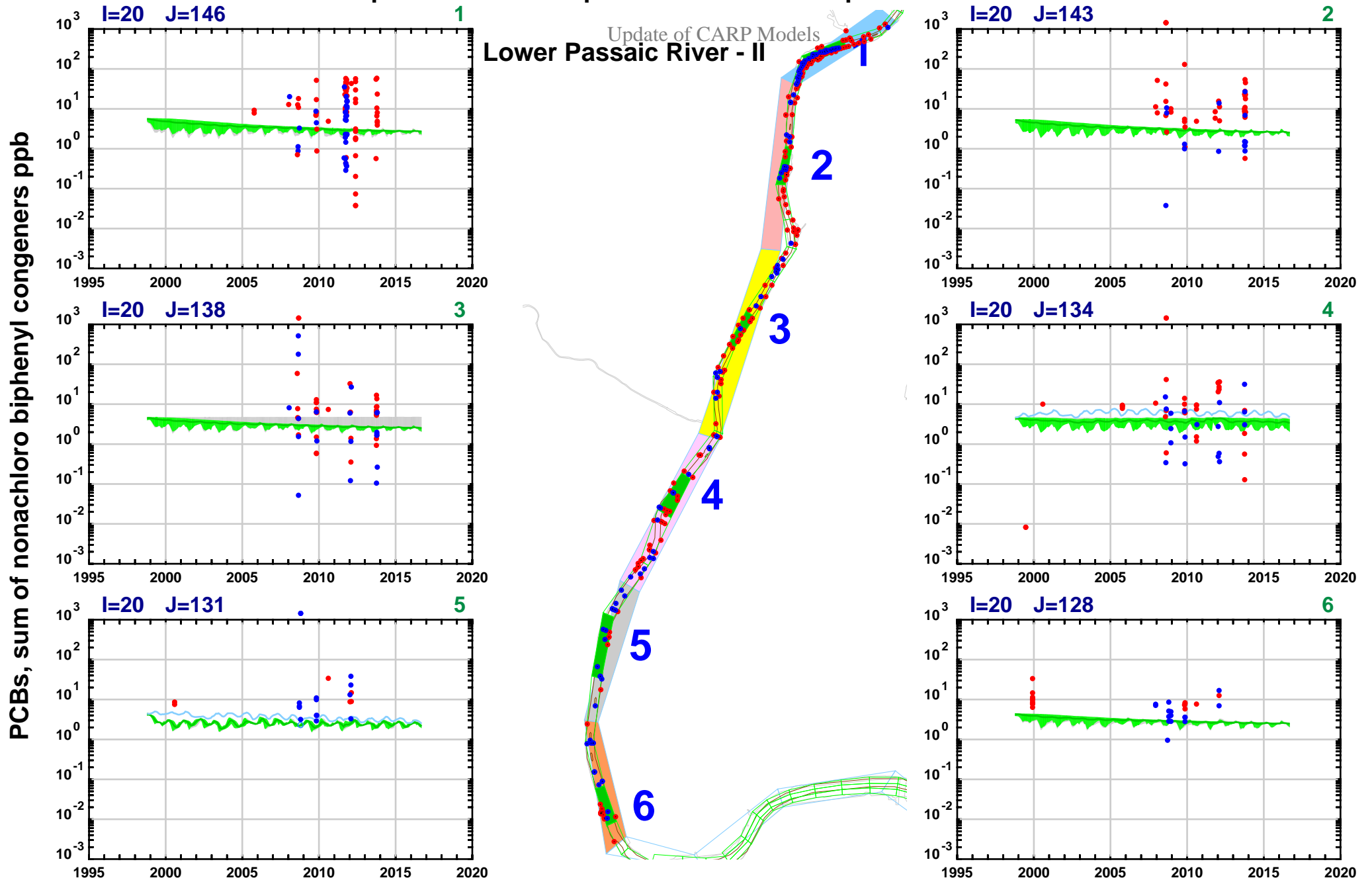


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

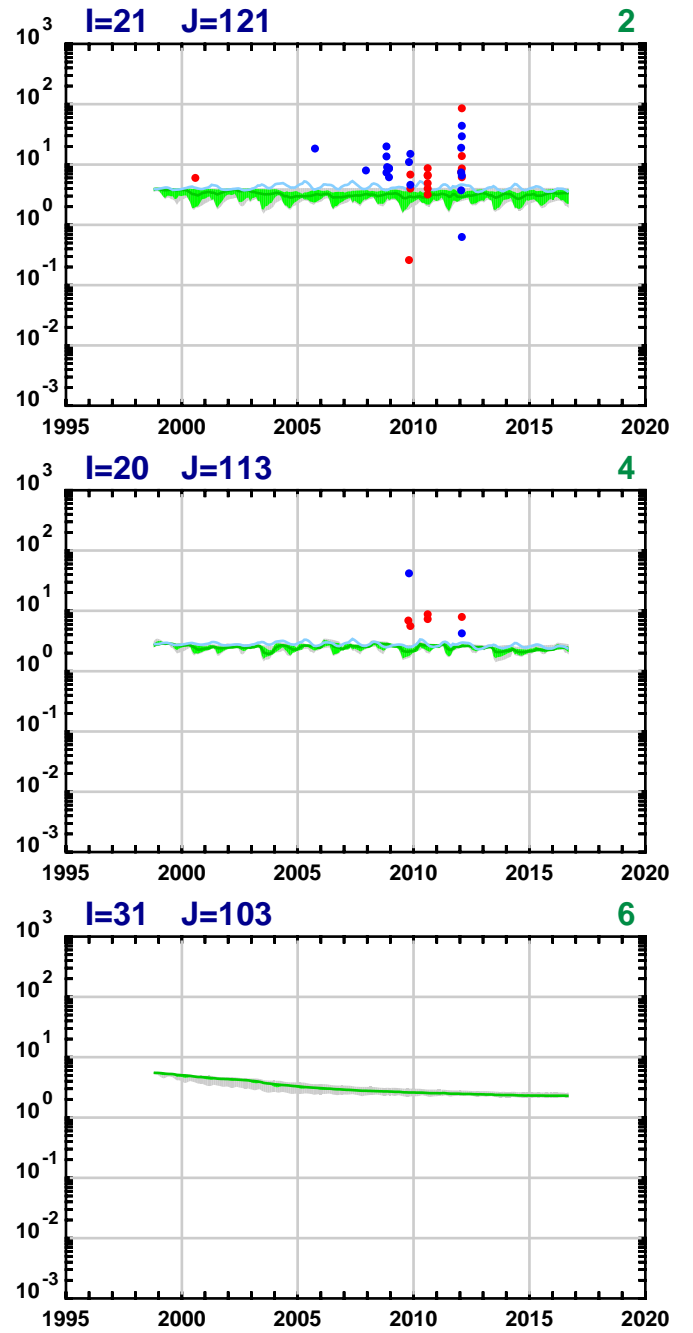
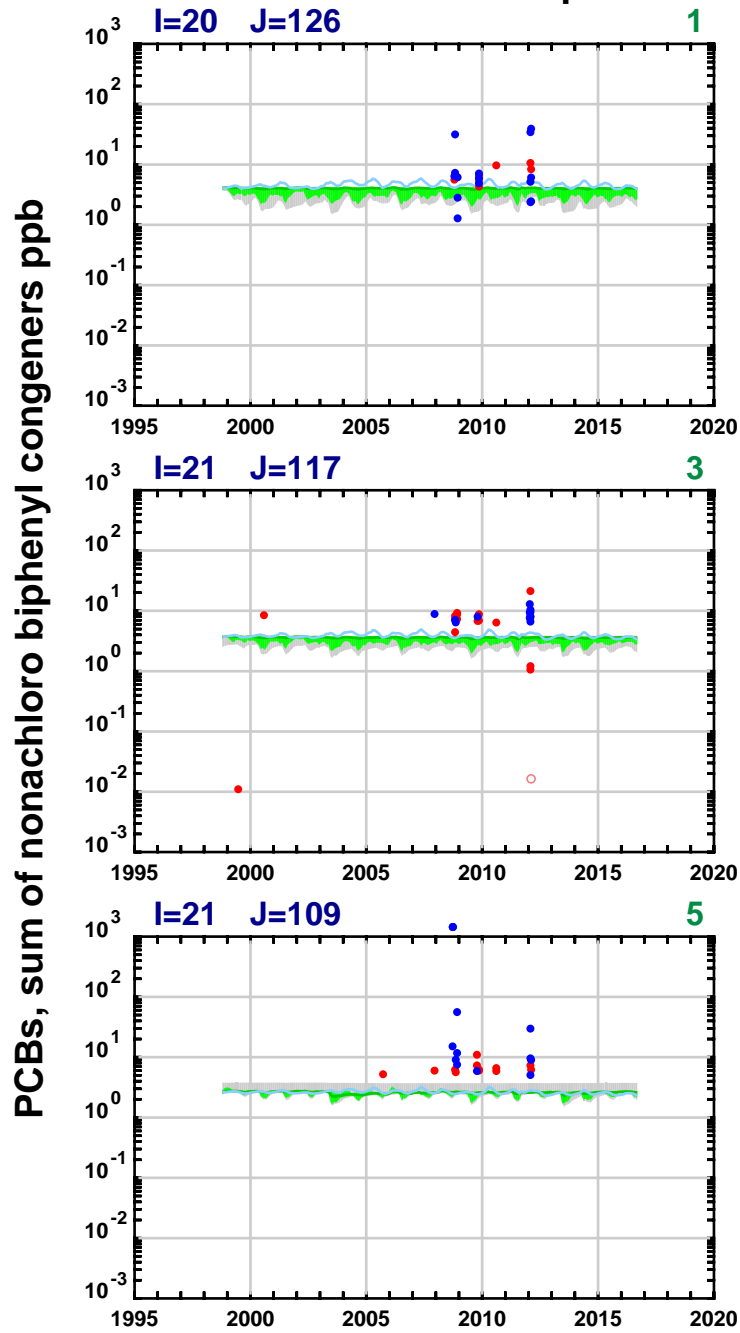


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

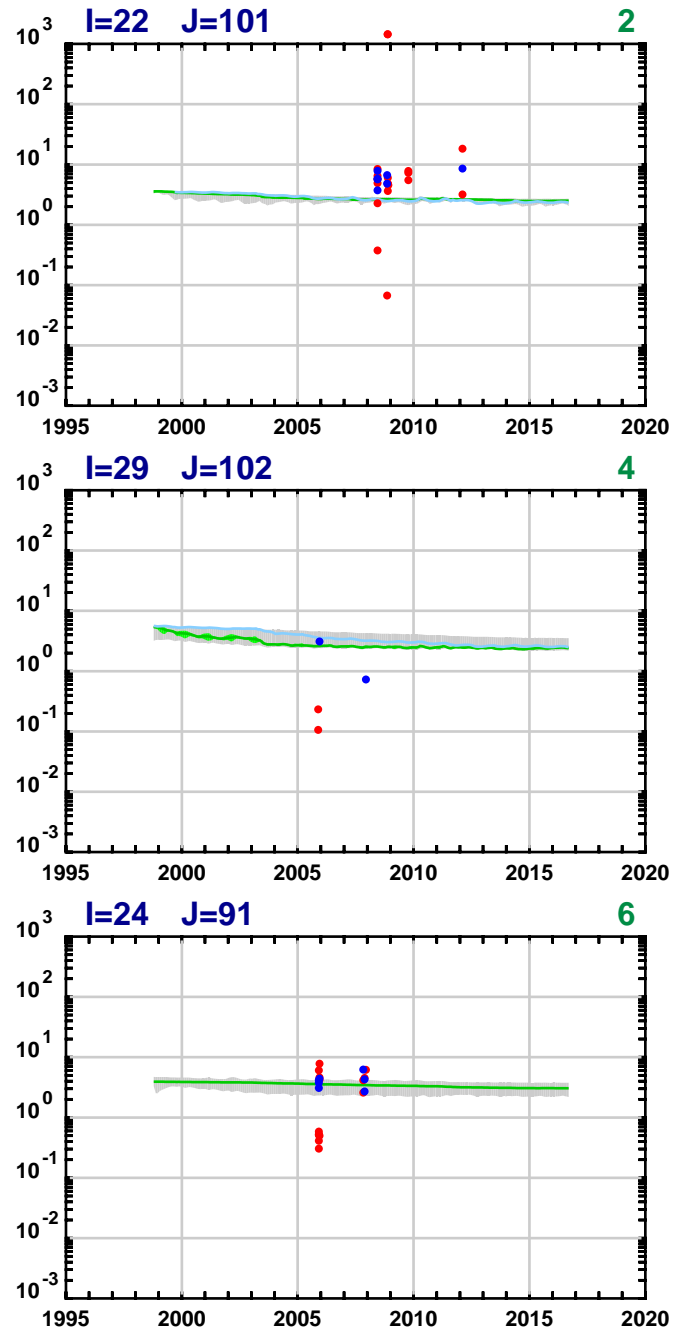
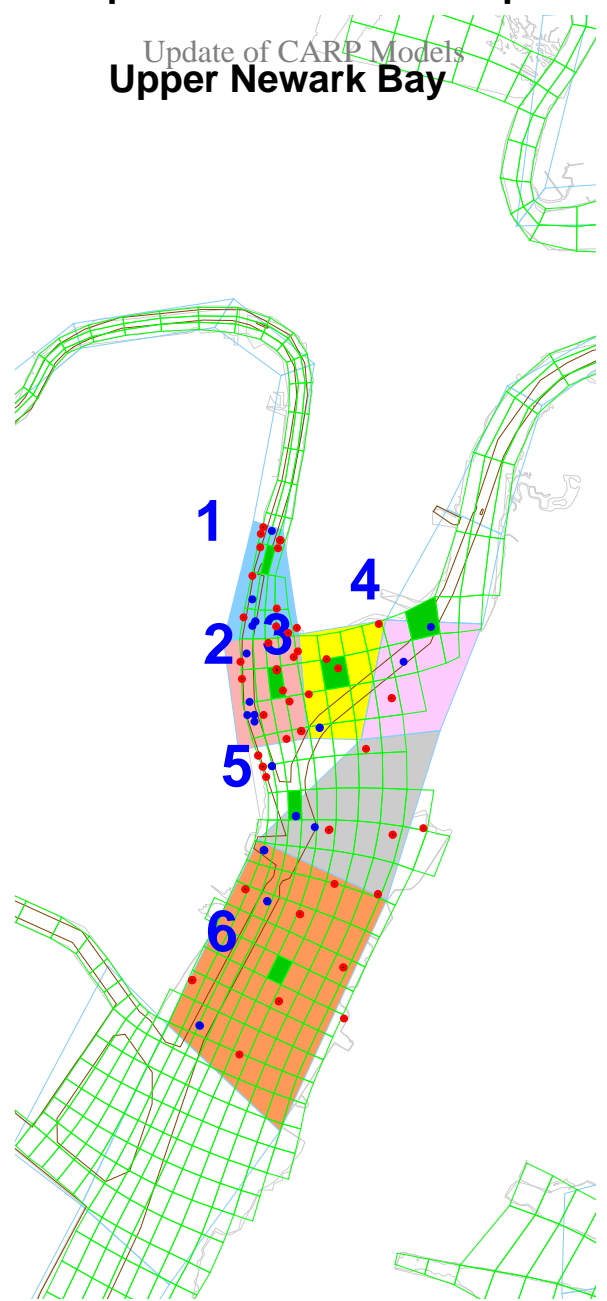
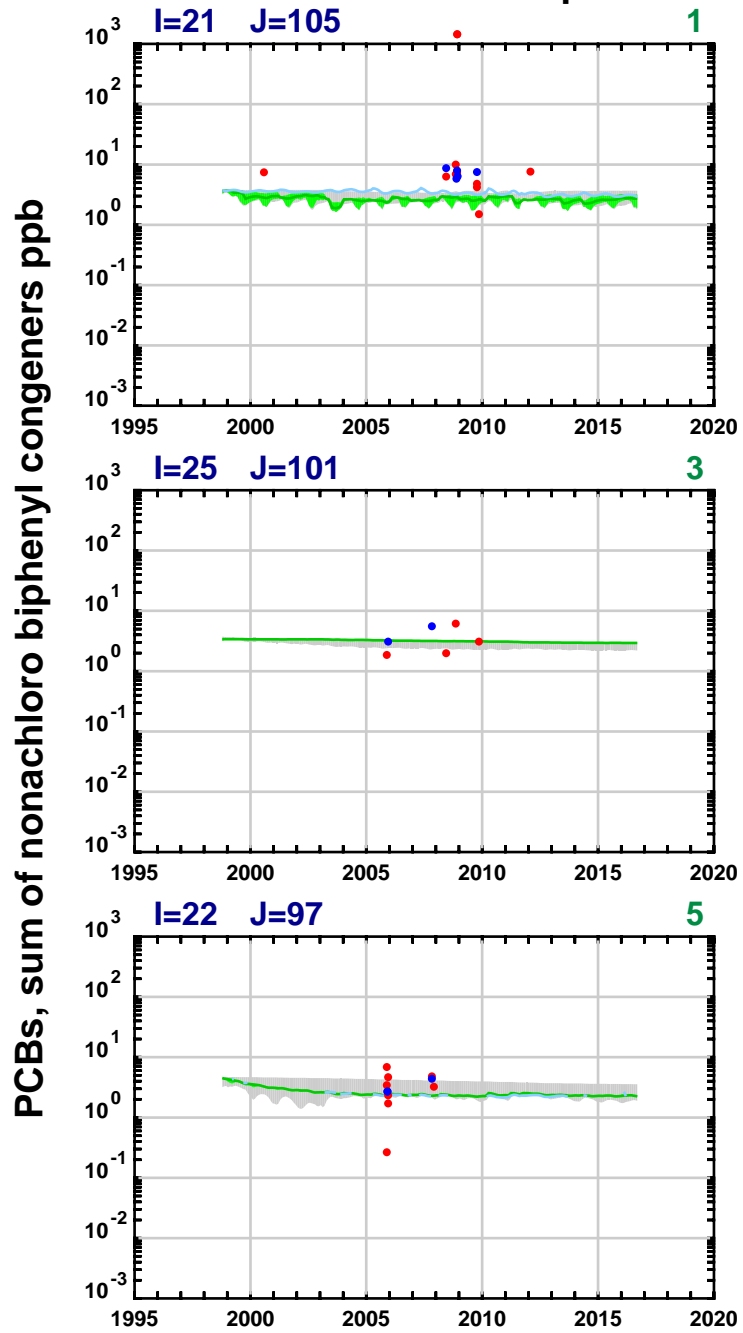


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

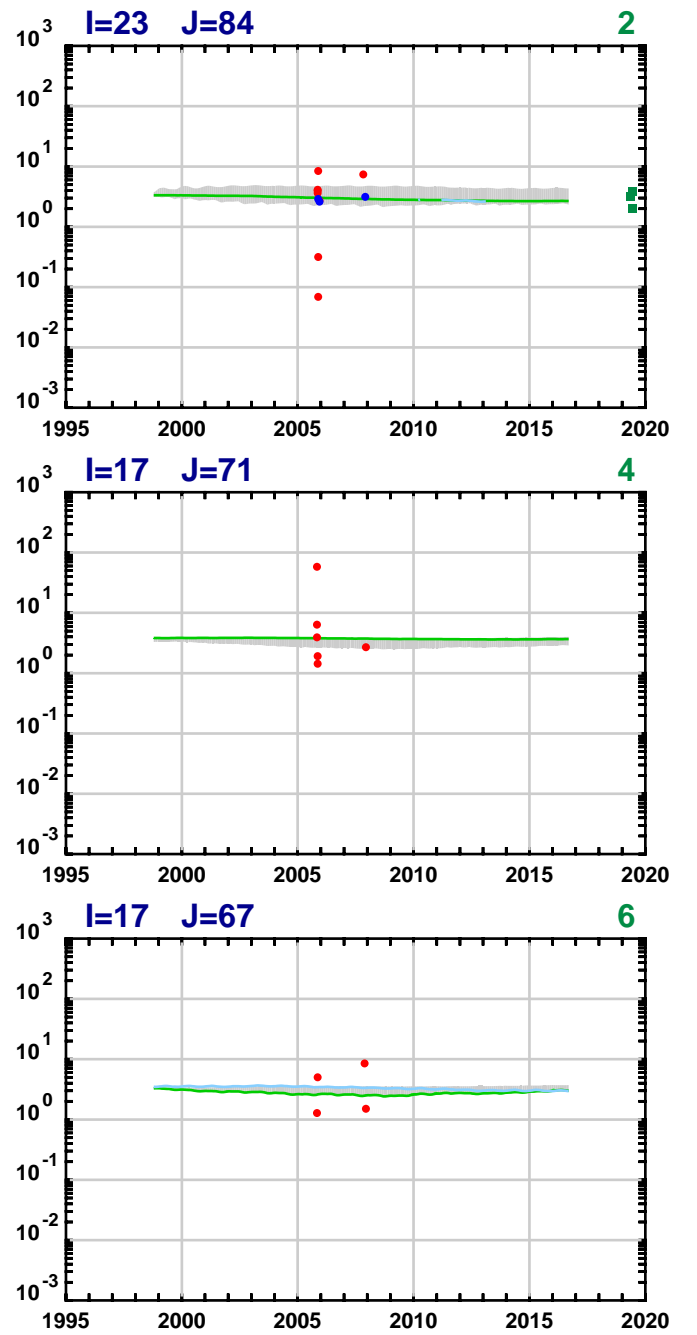
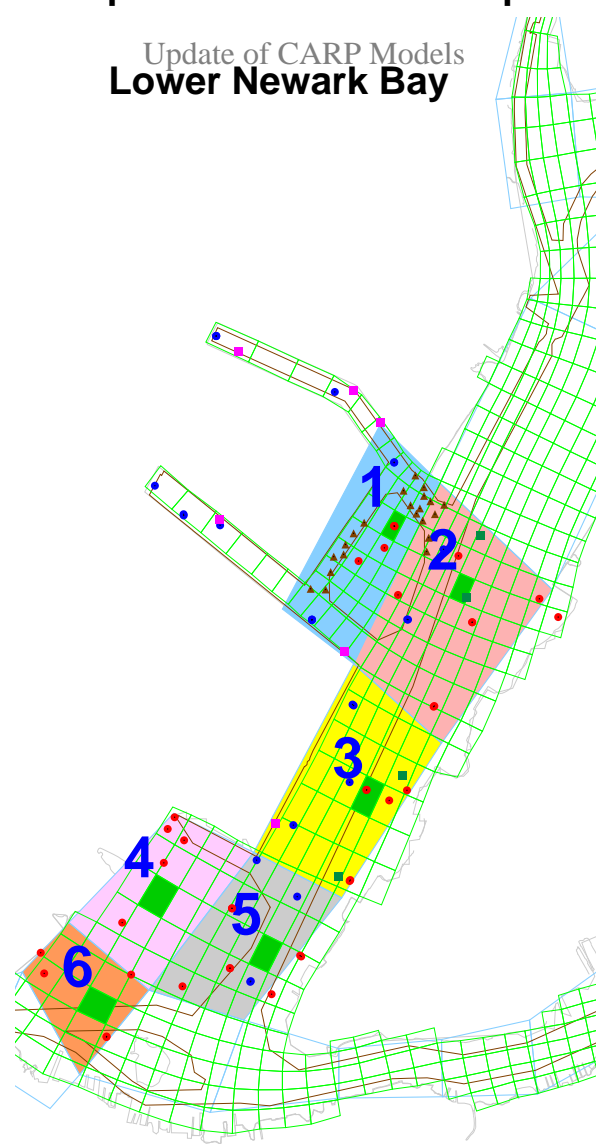
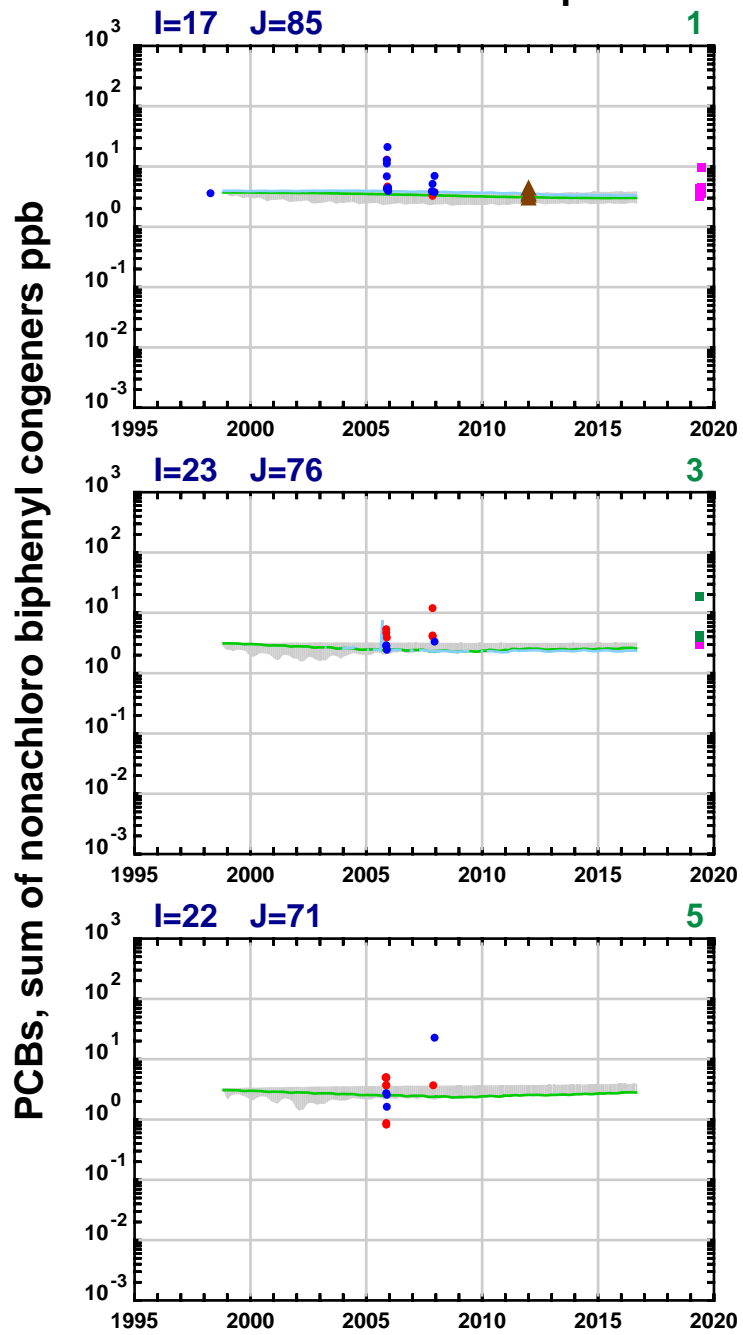


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

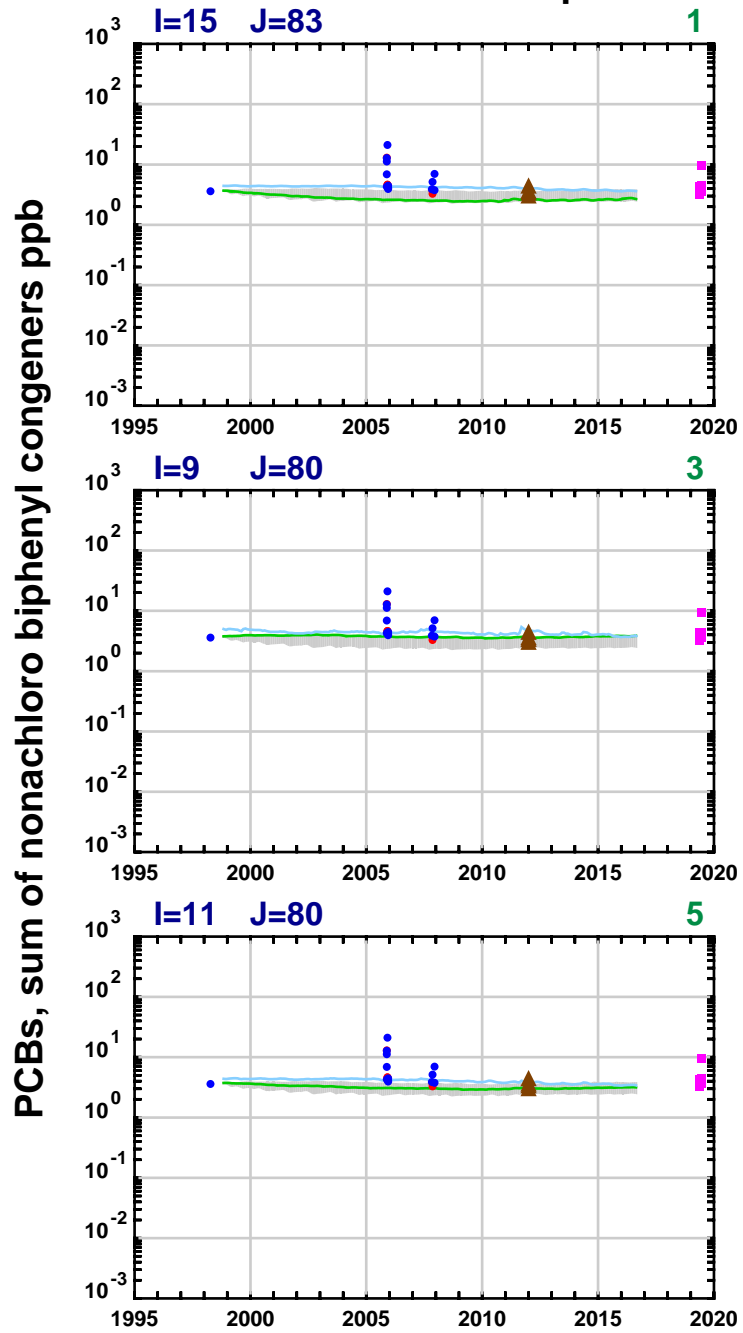


RUN18\_S2

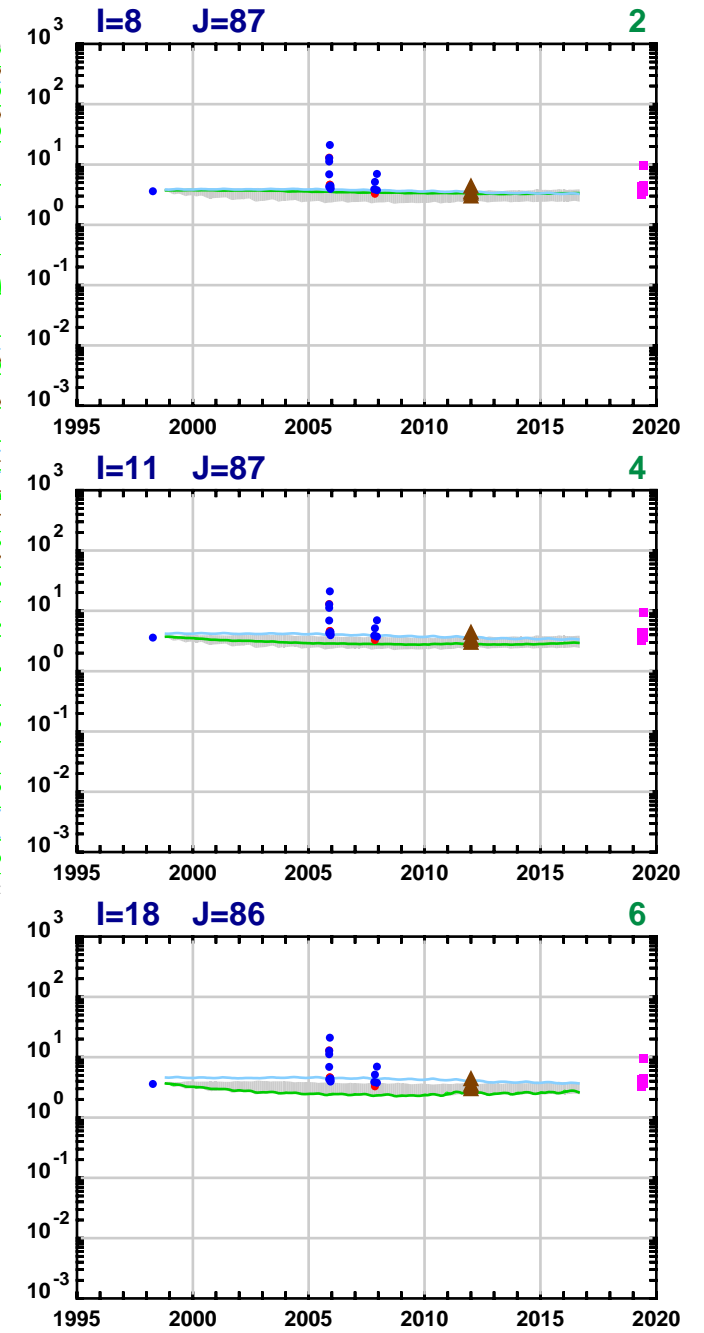
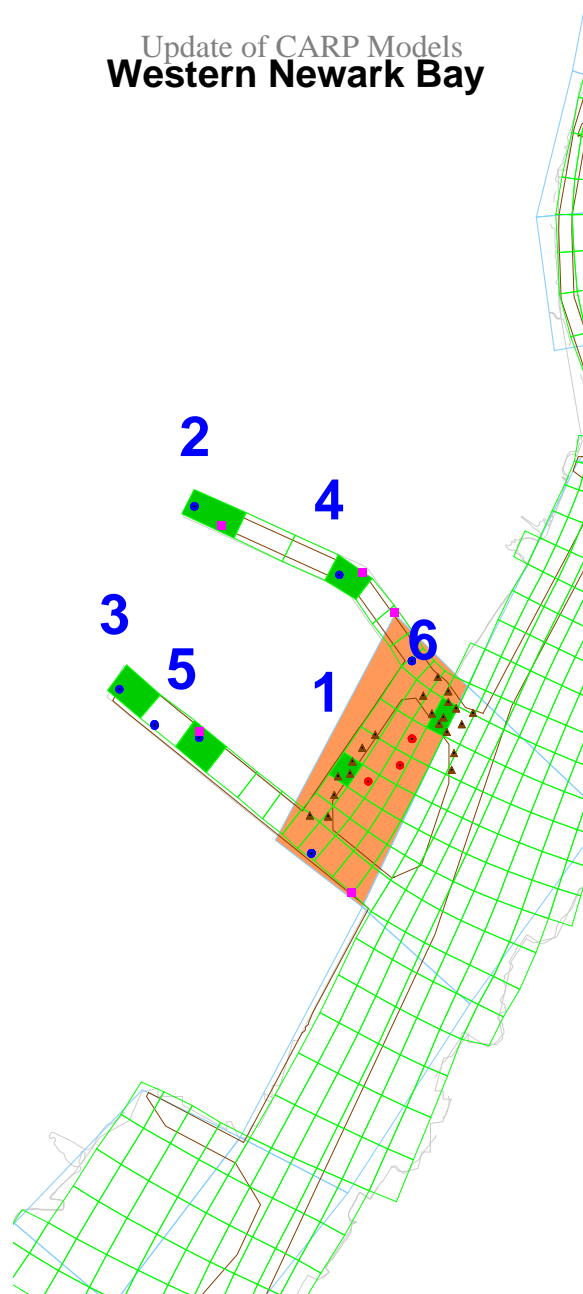
Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



## Update of CARP Models Western Newark Bay



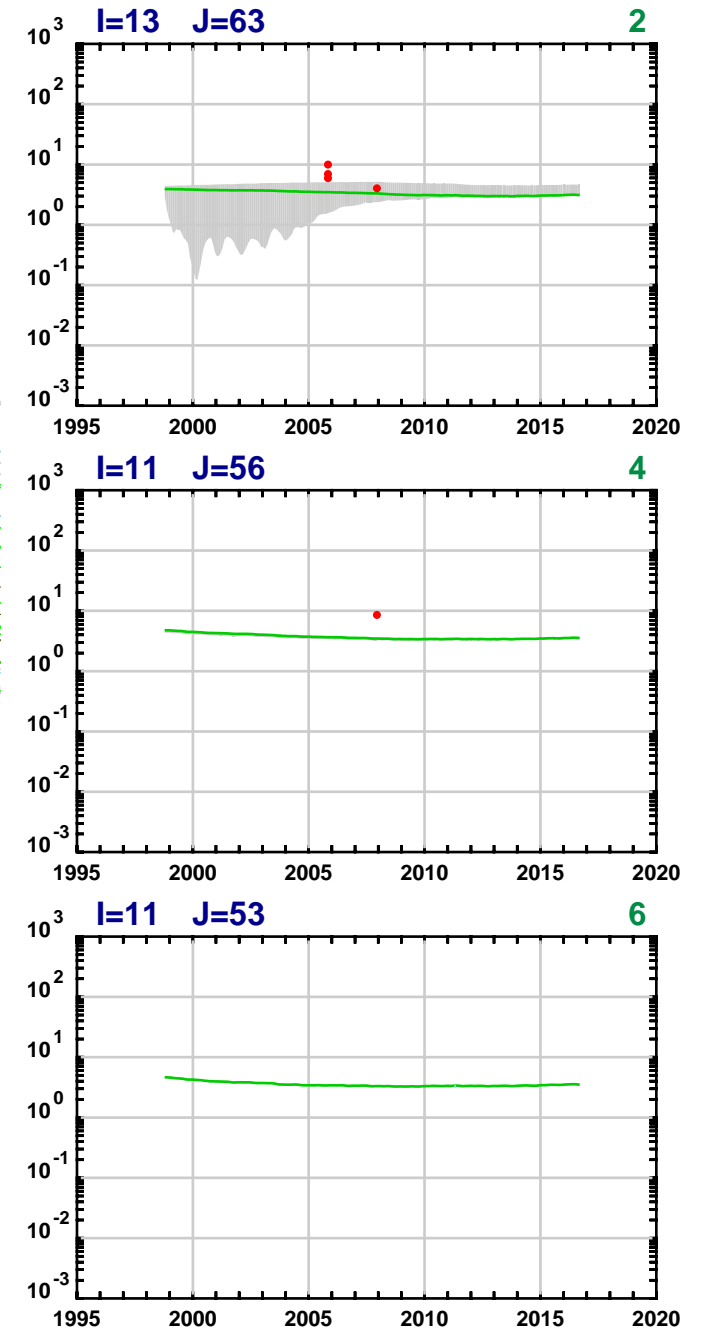
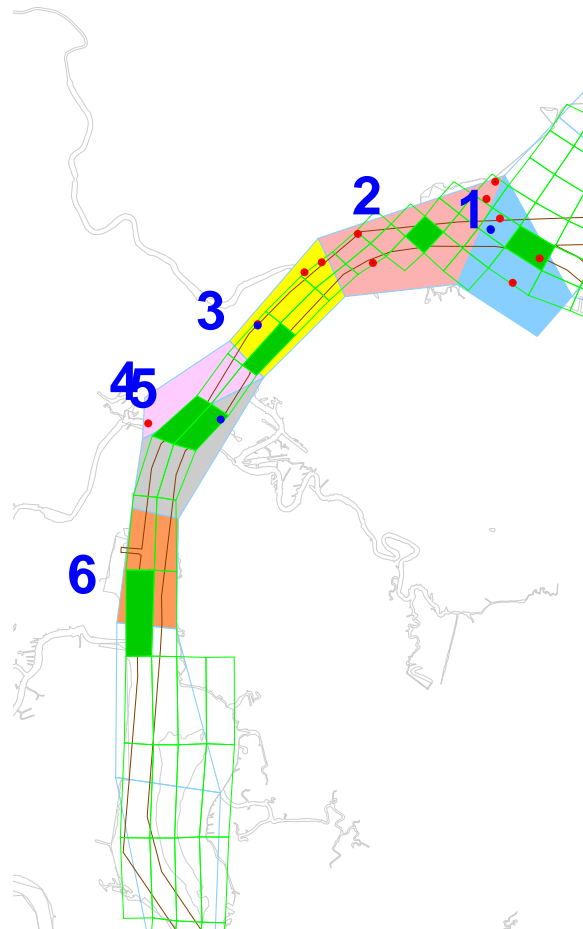
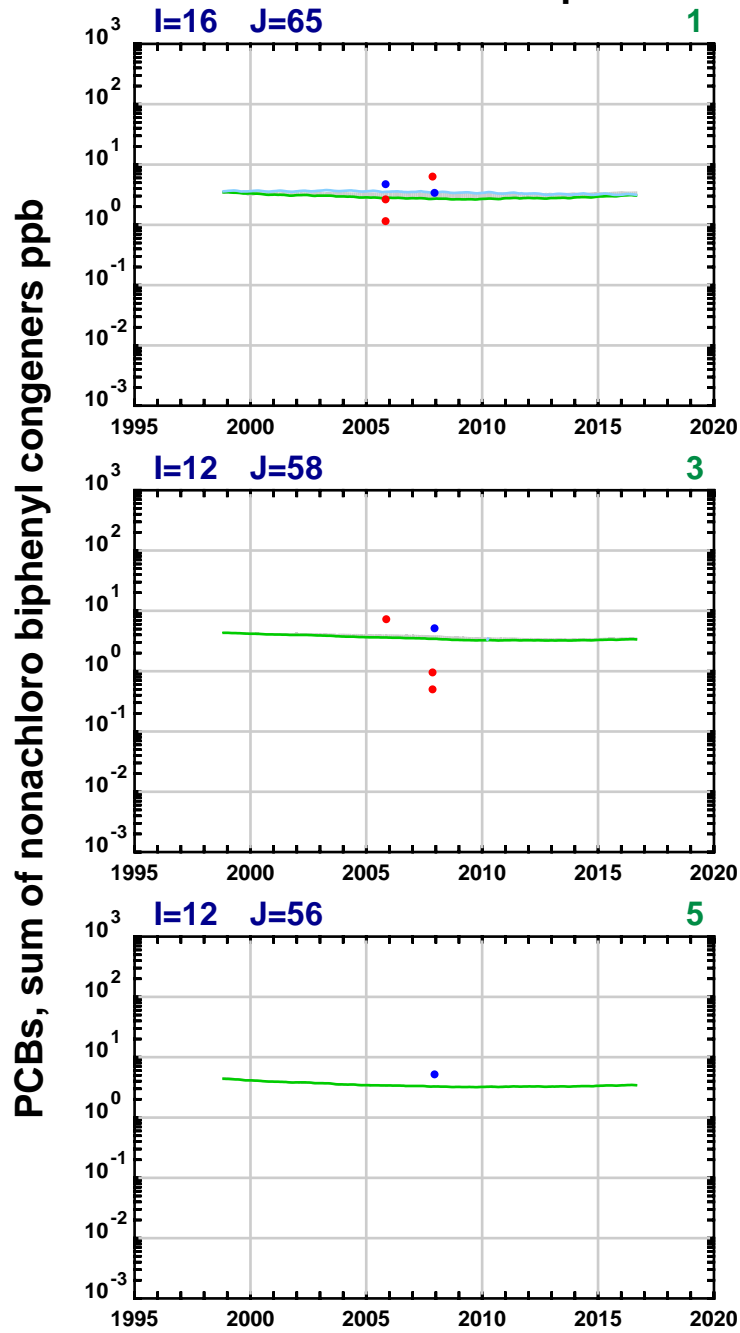
RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1



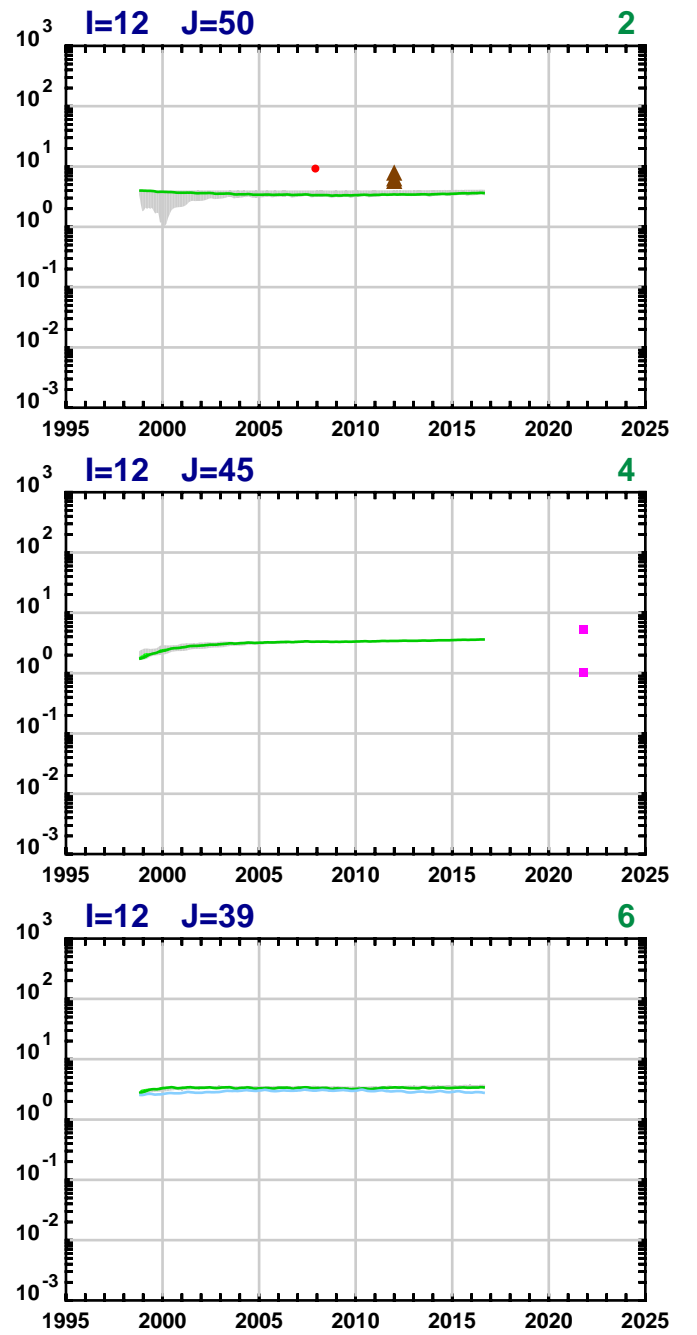
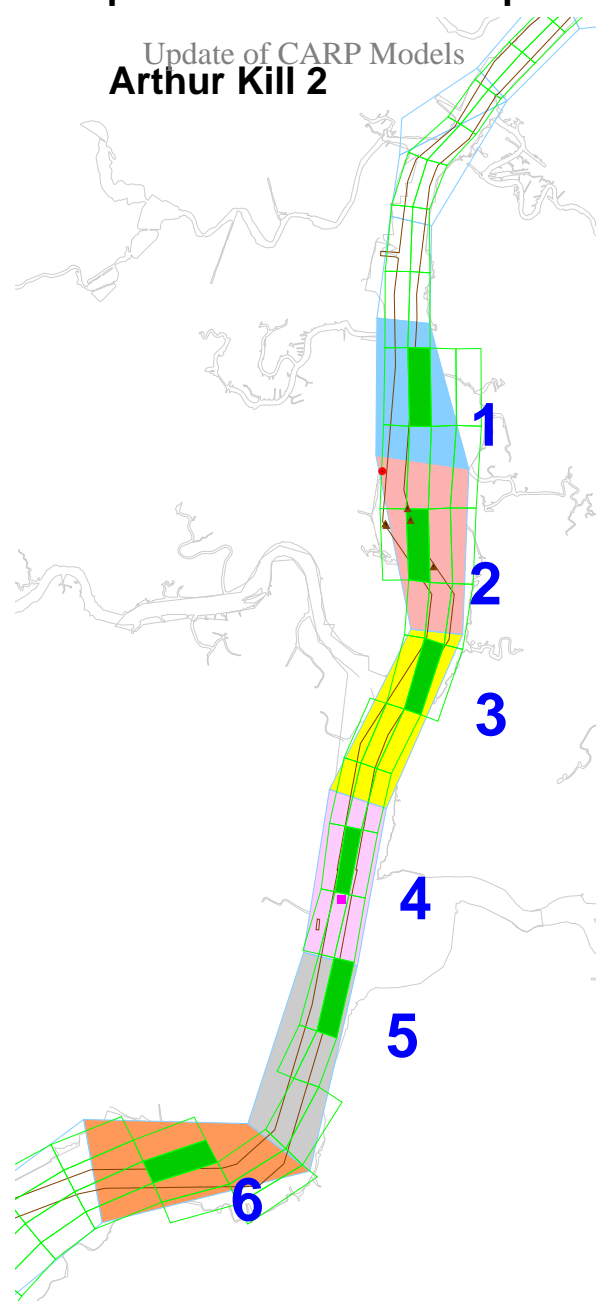
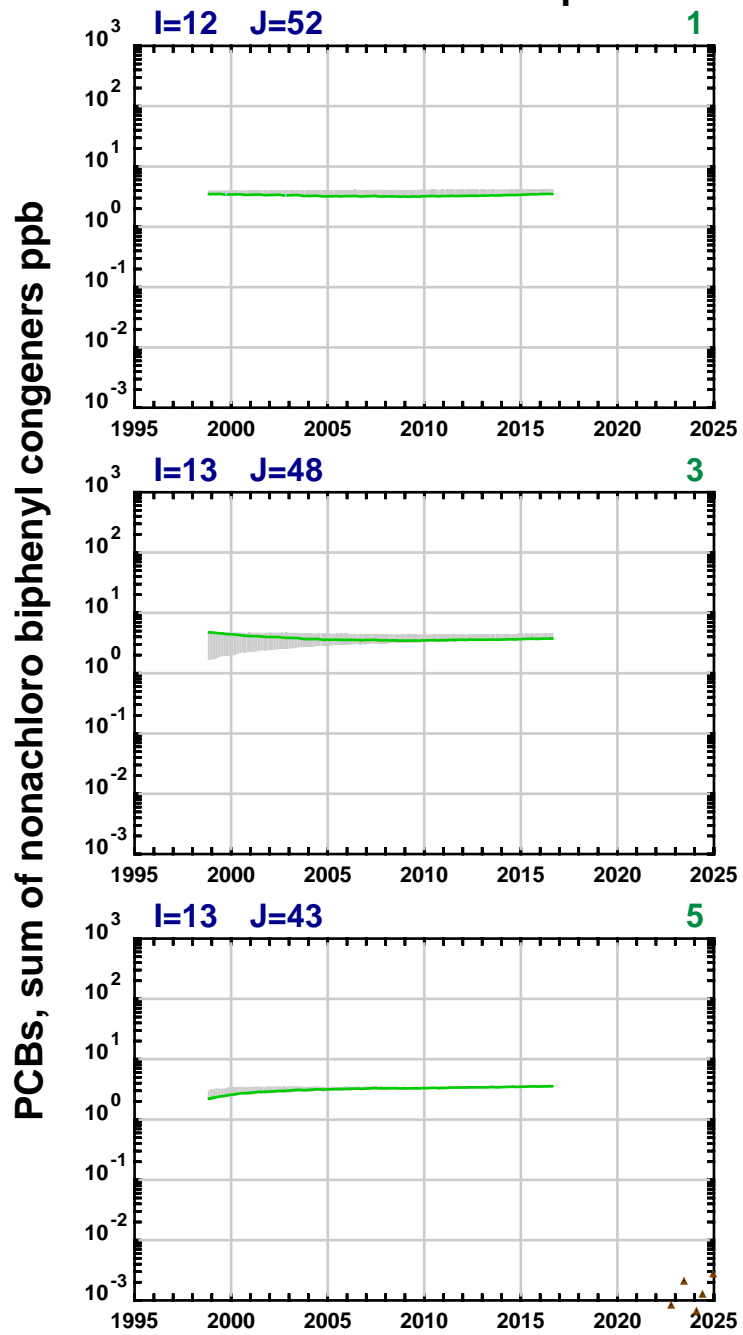
RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

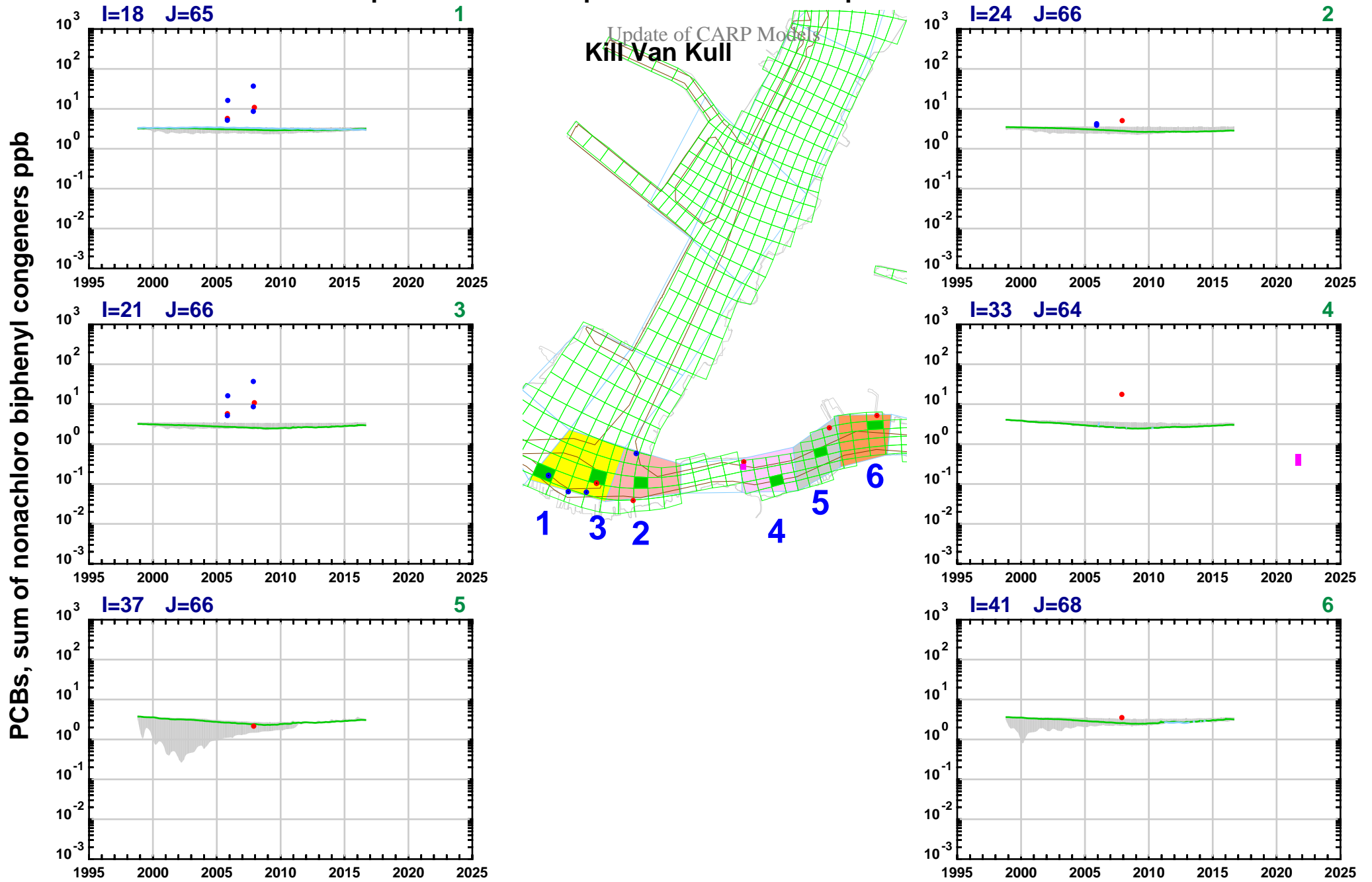


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

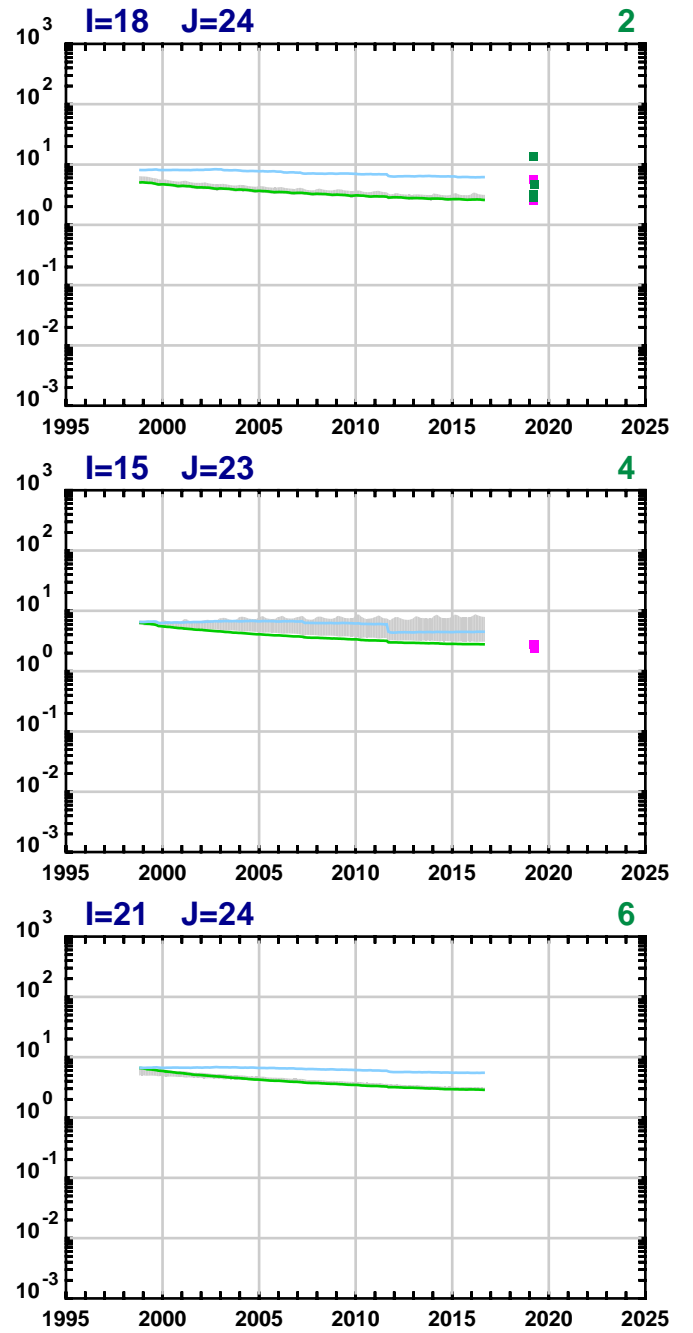
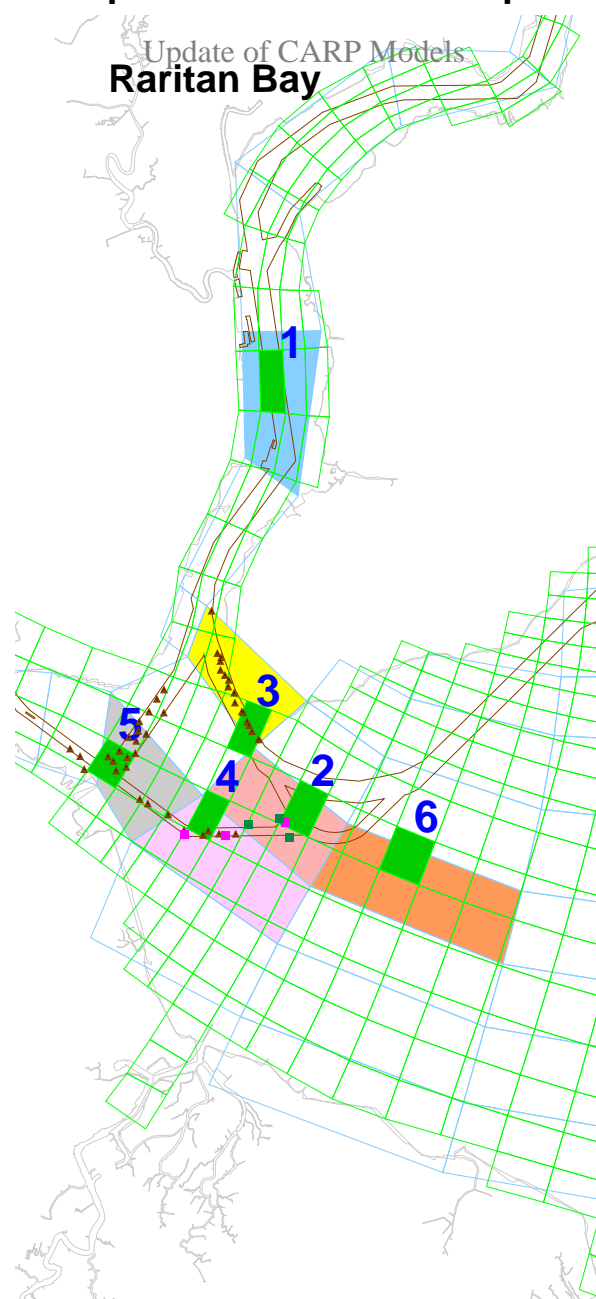
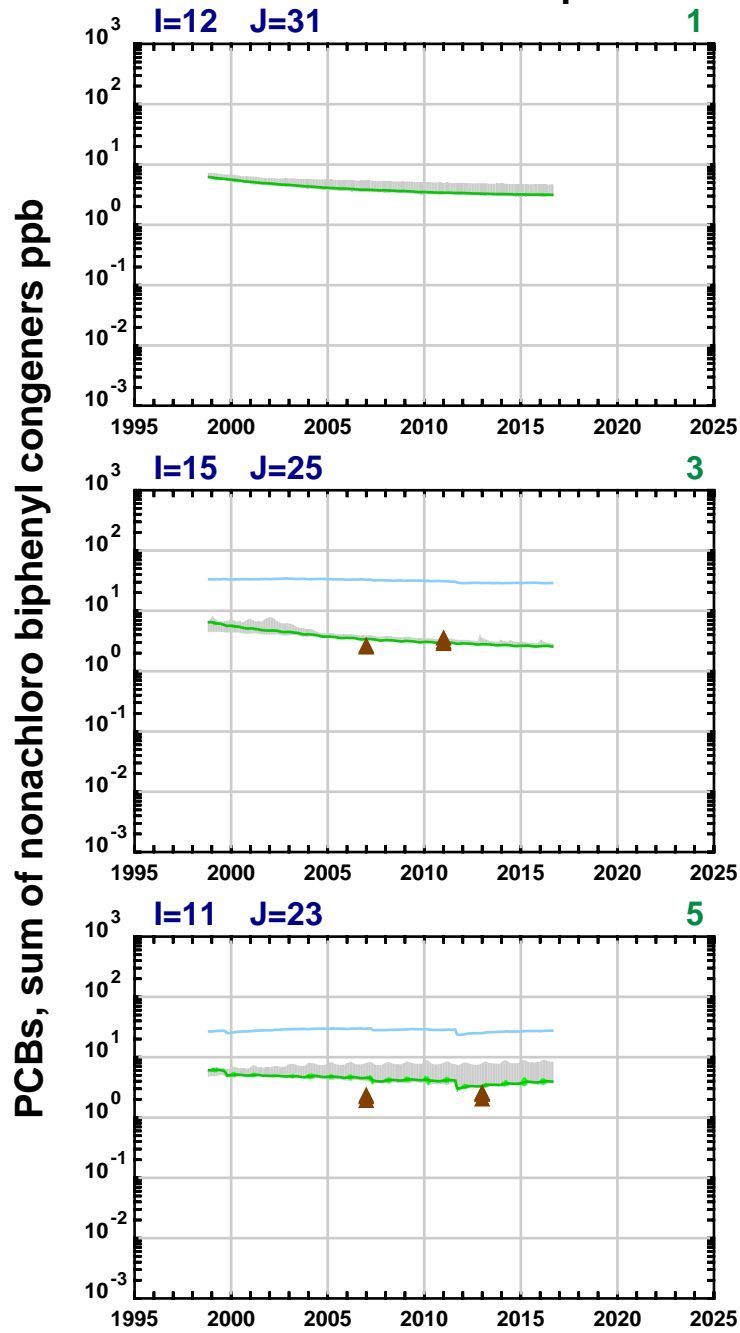


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

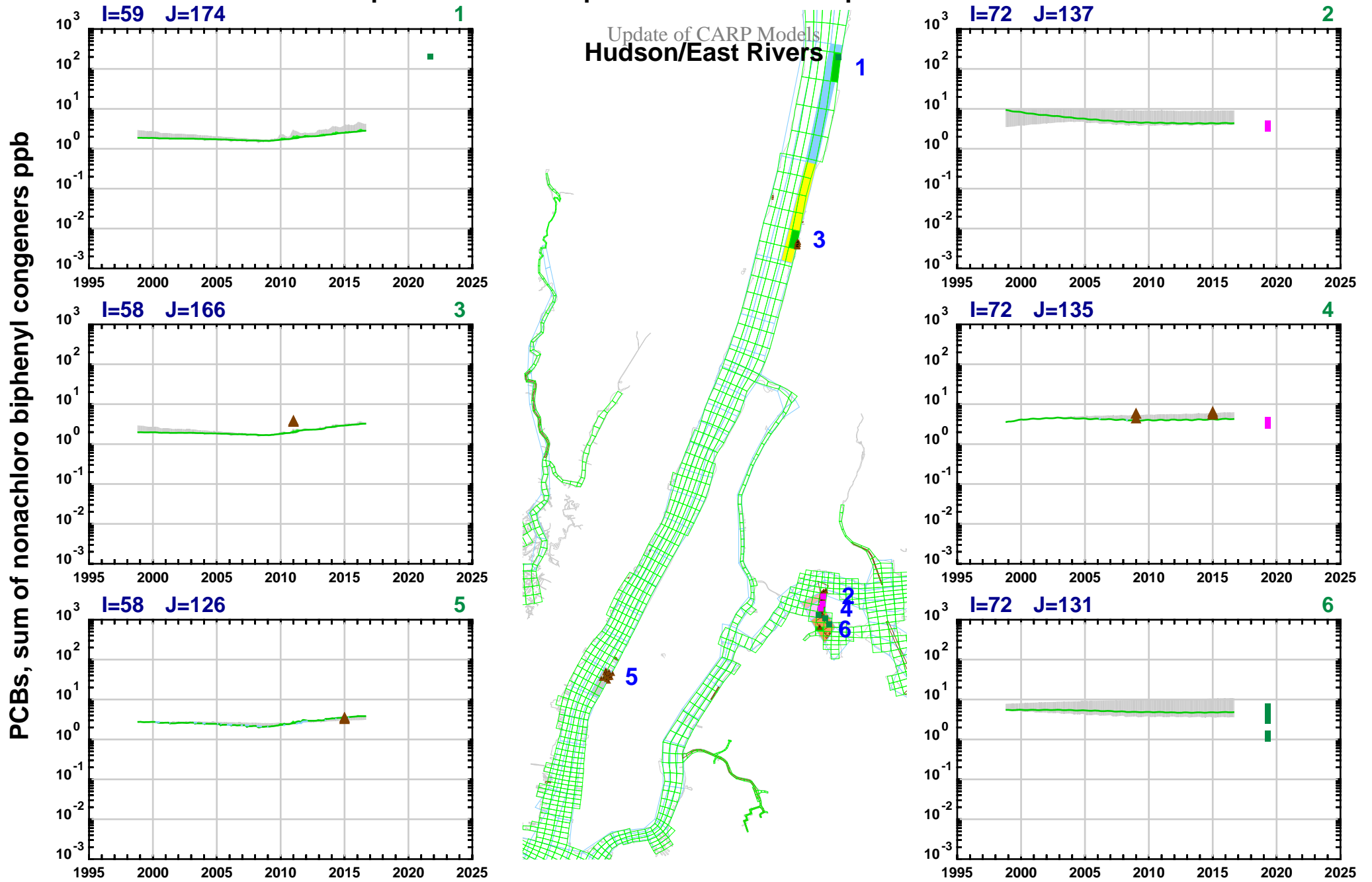


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

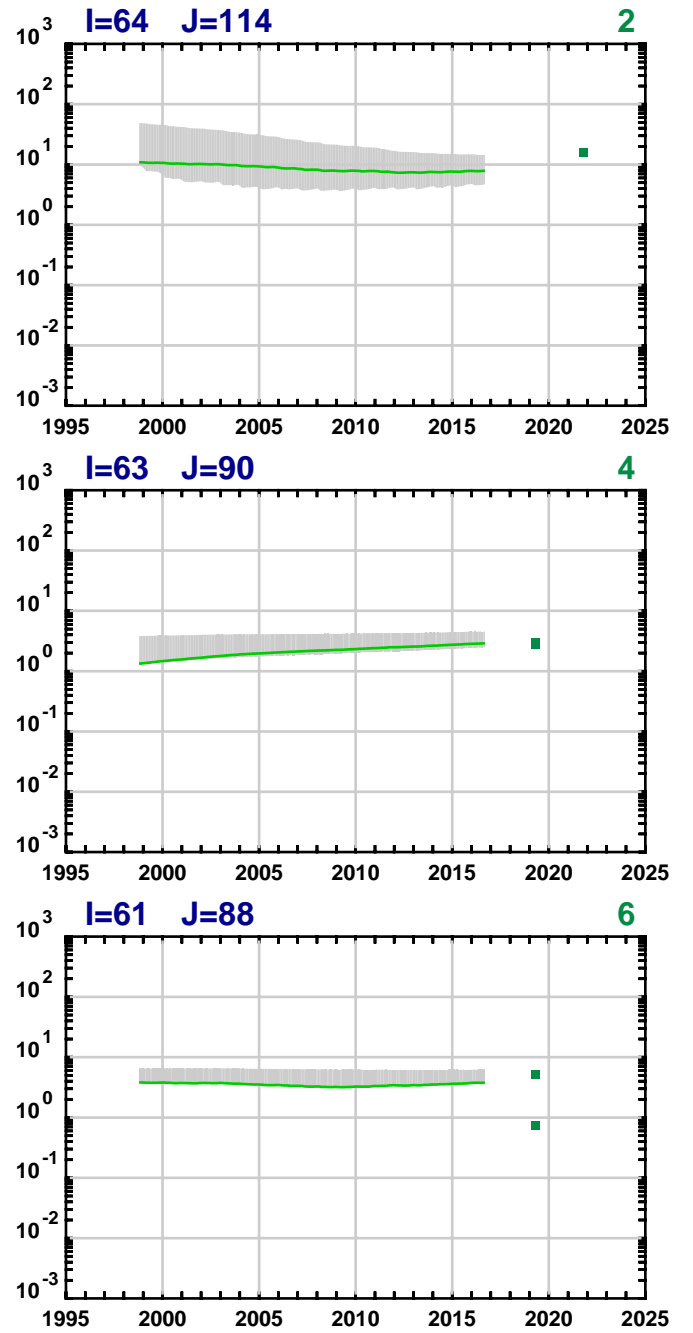
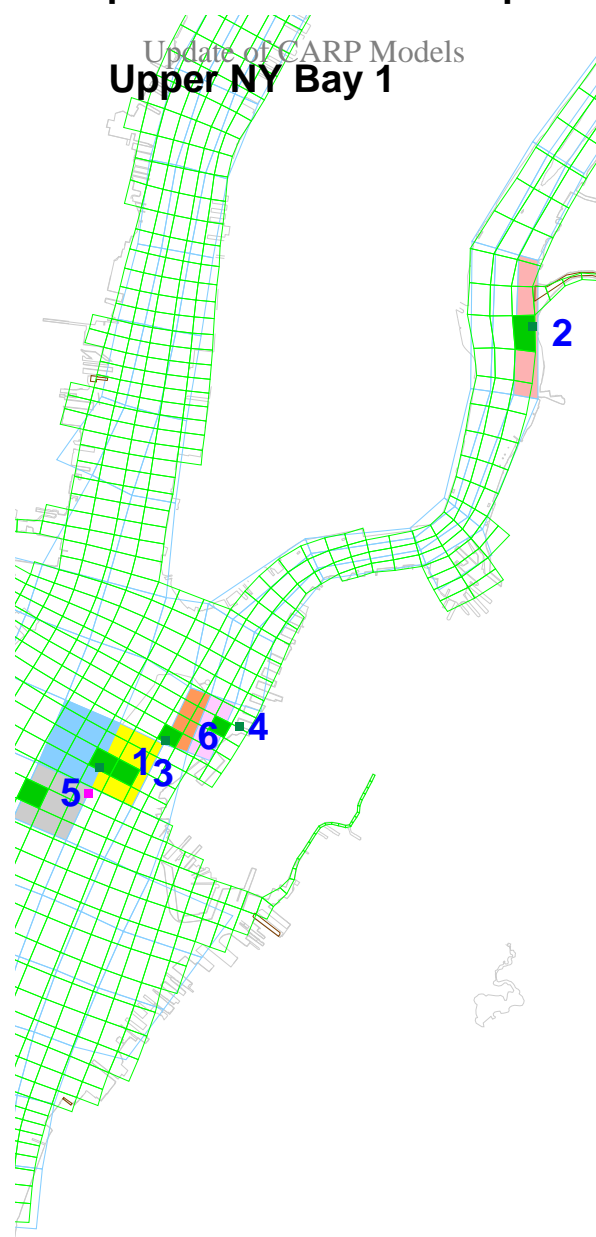
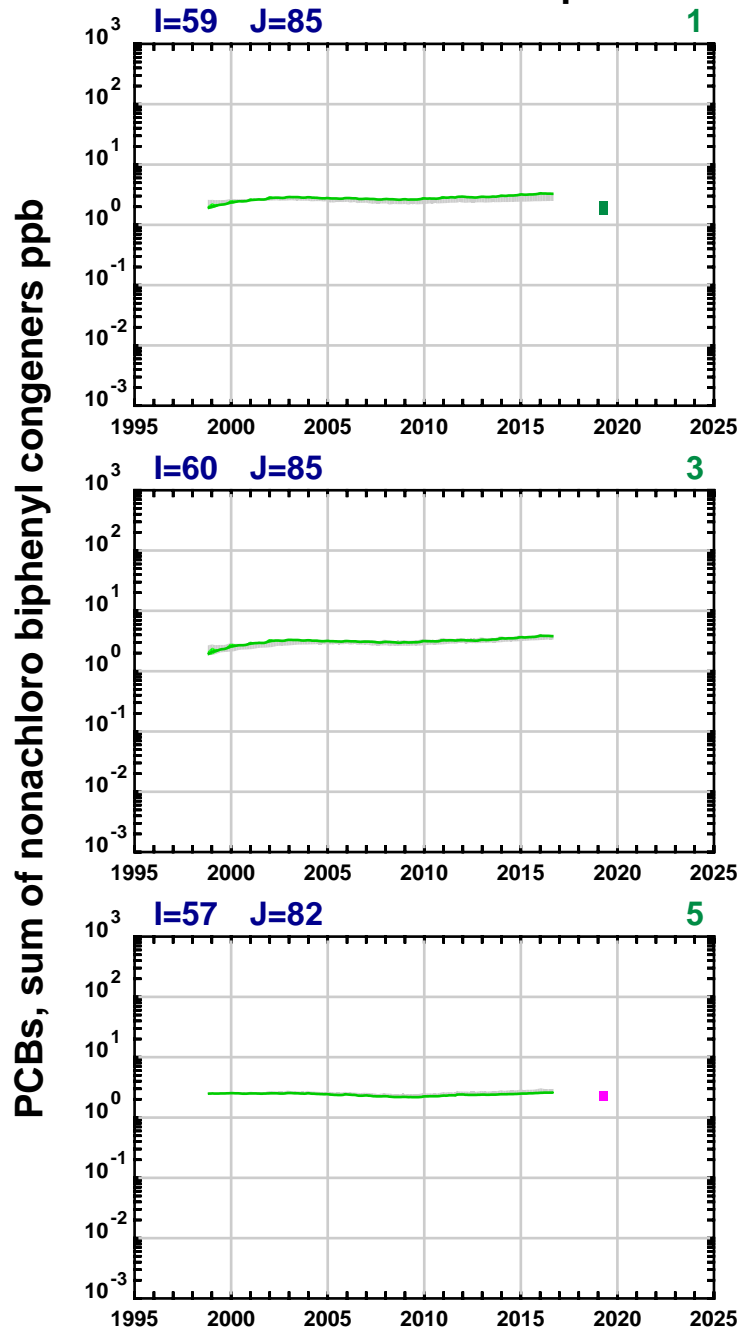


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

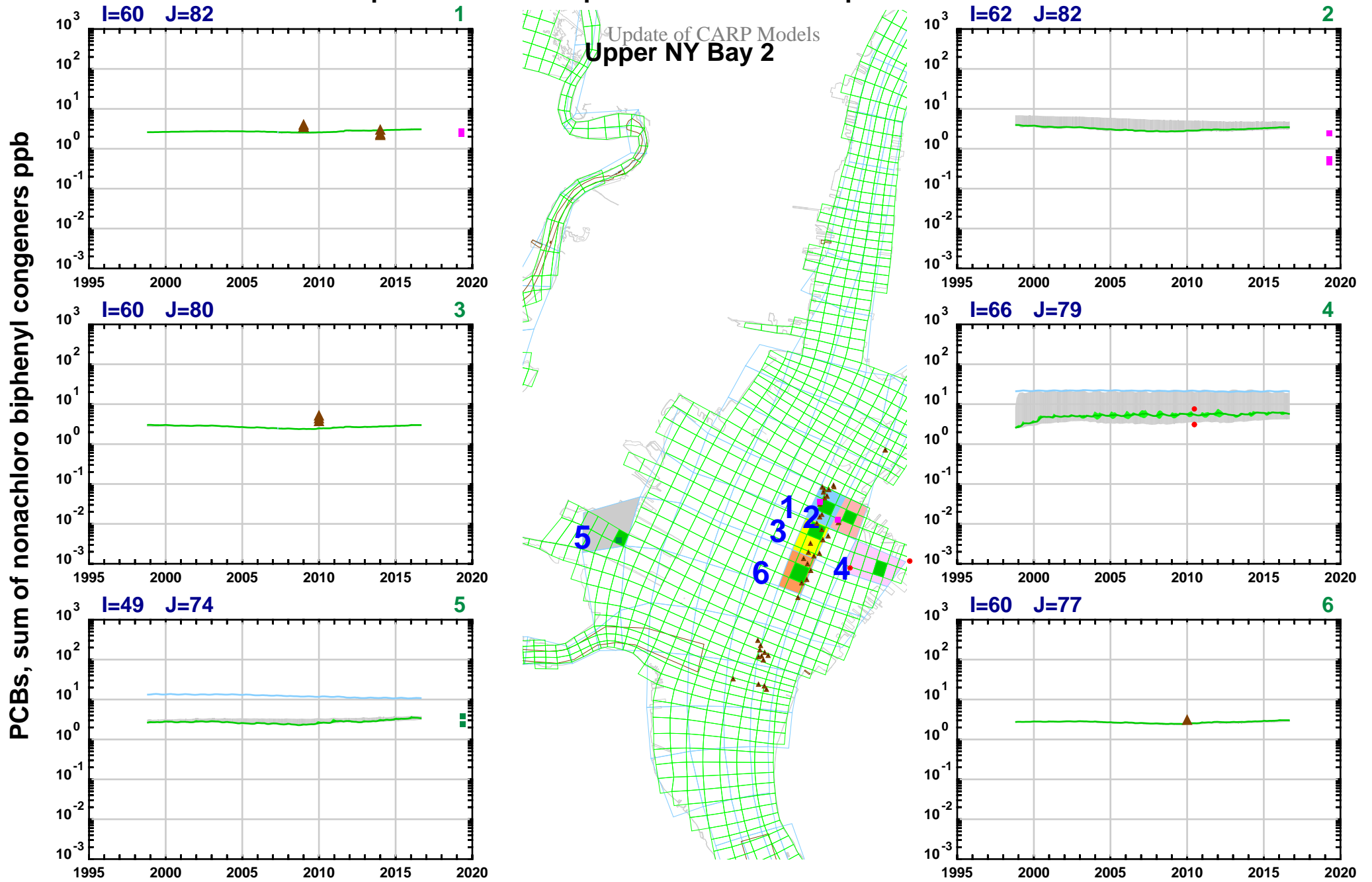


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

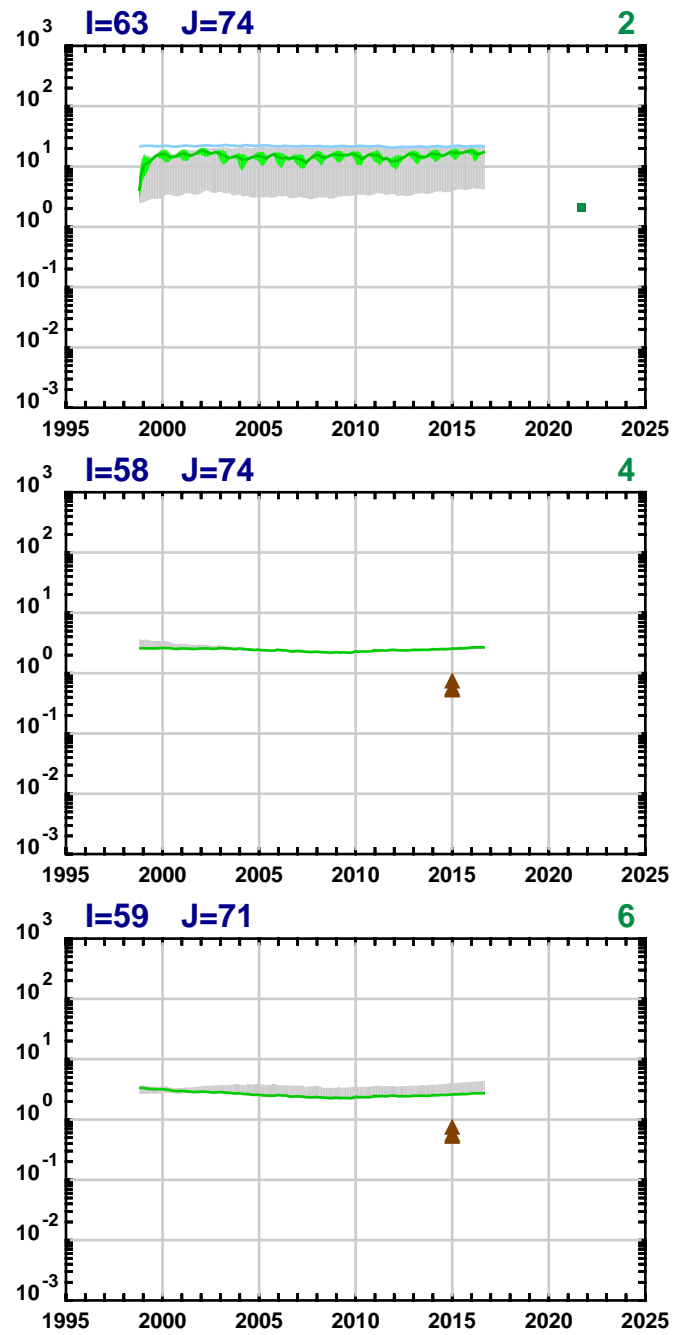
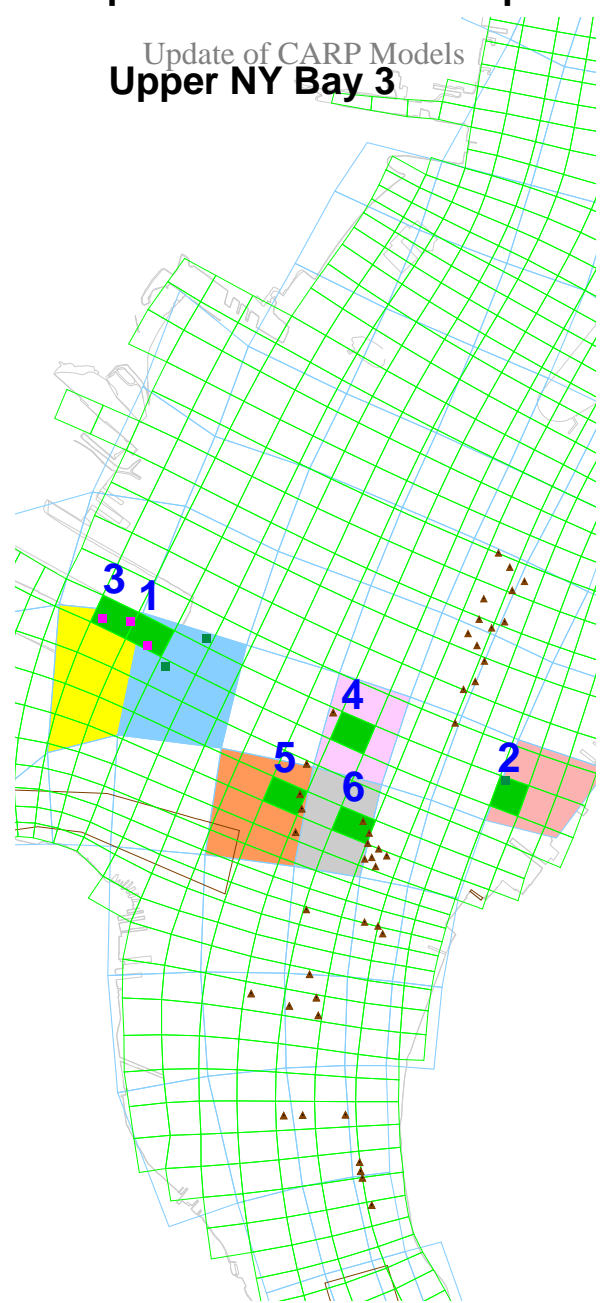
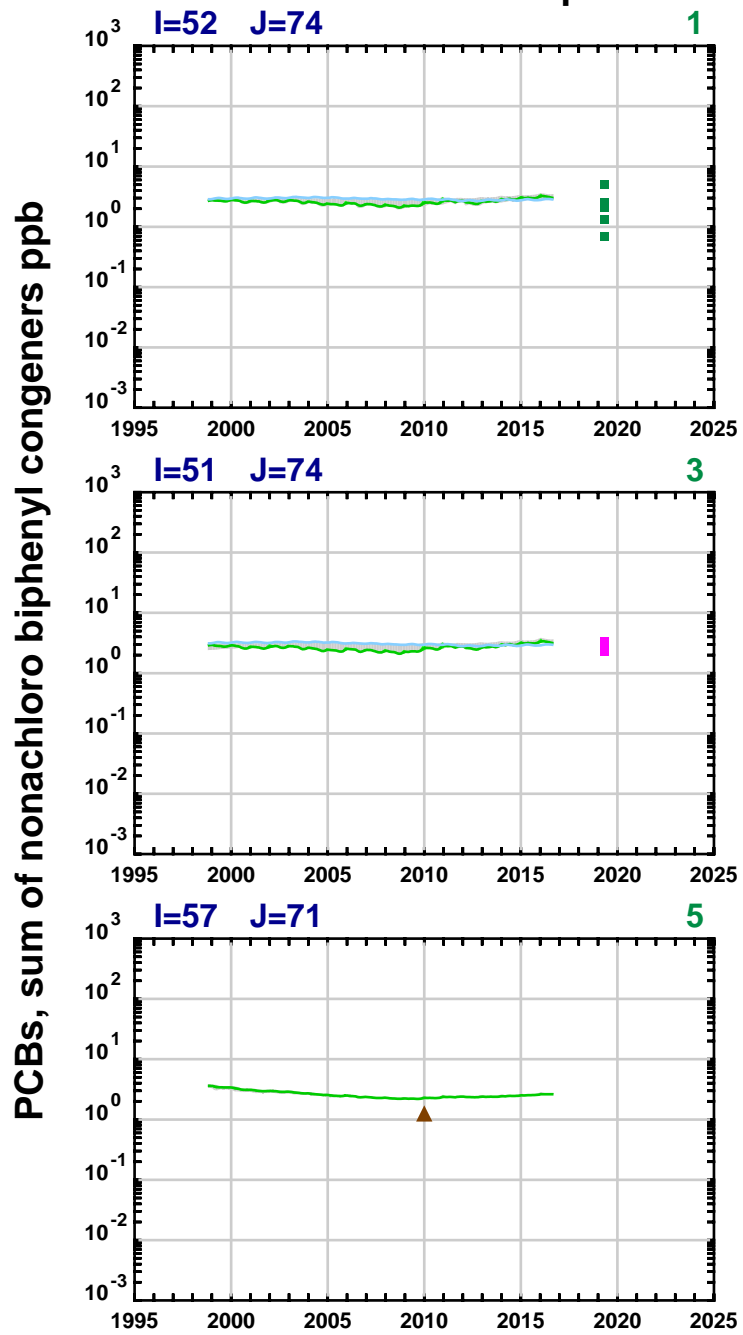
# Top 15 cm data comparison with model top 10 cm sediment



RUN18\_S2



# Top 15 cm data comparison with model top 10 cm sediment



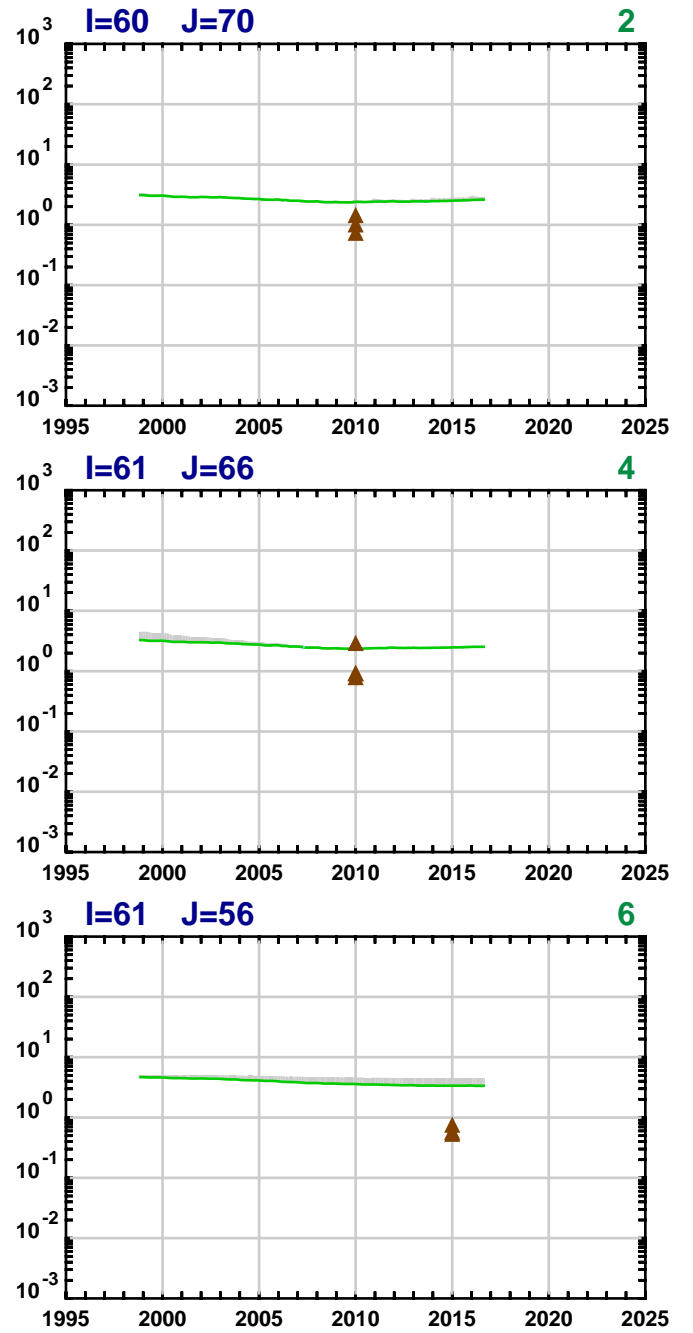
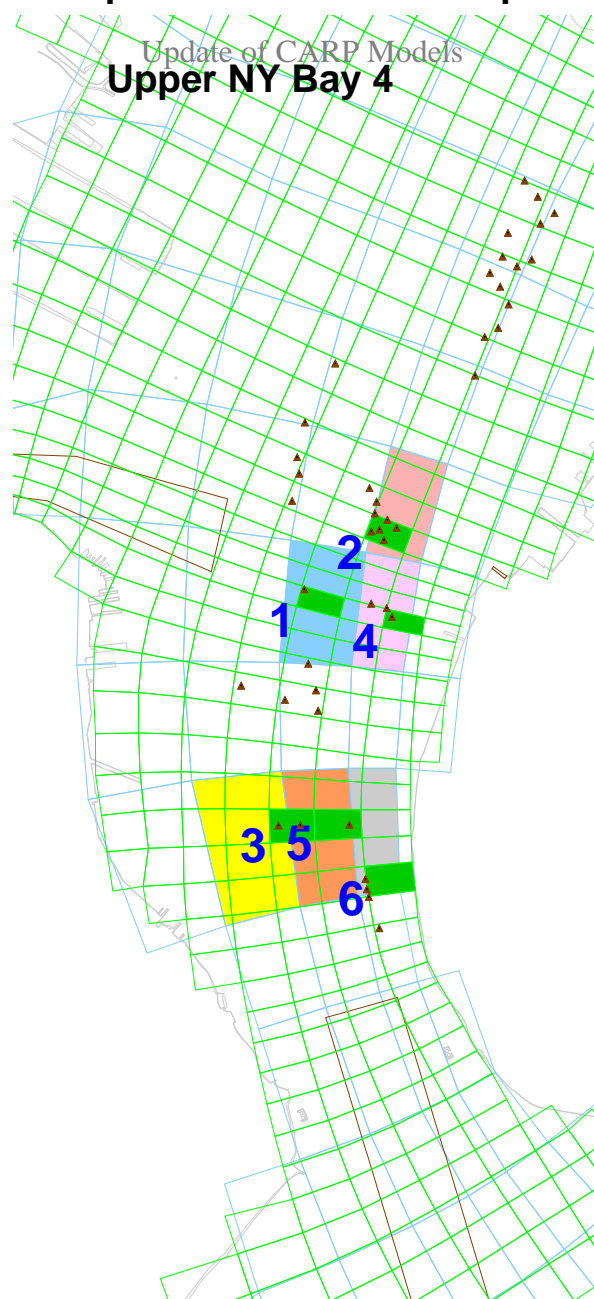
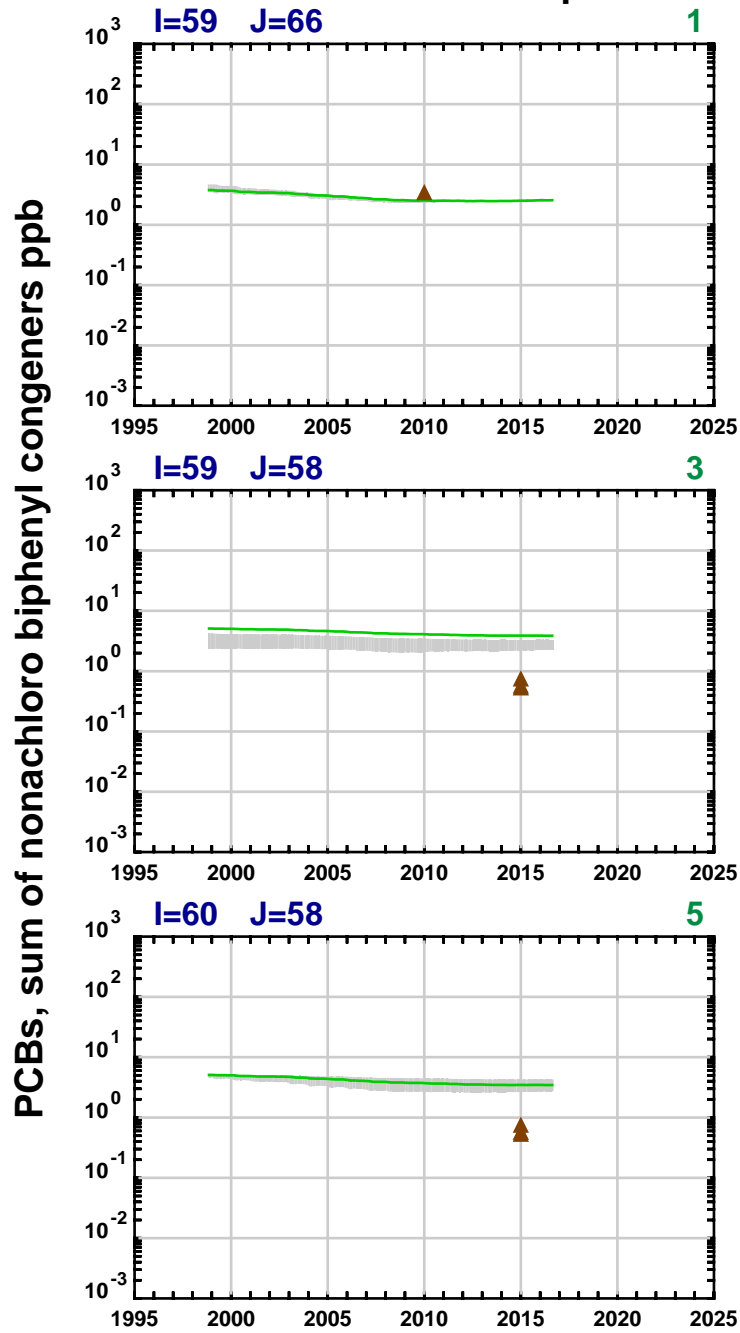
RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

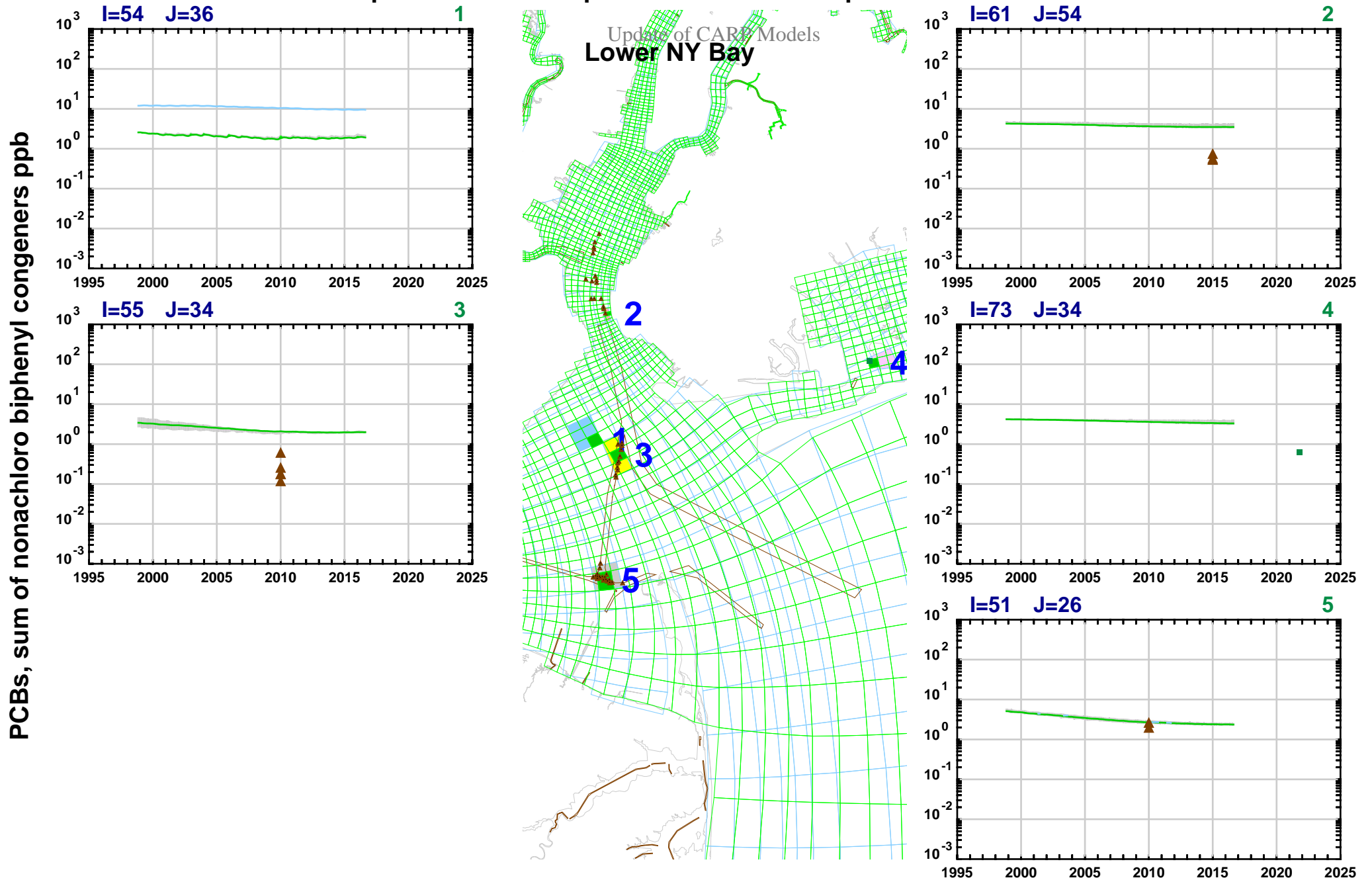


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

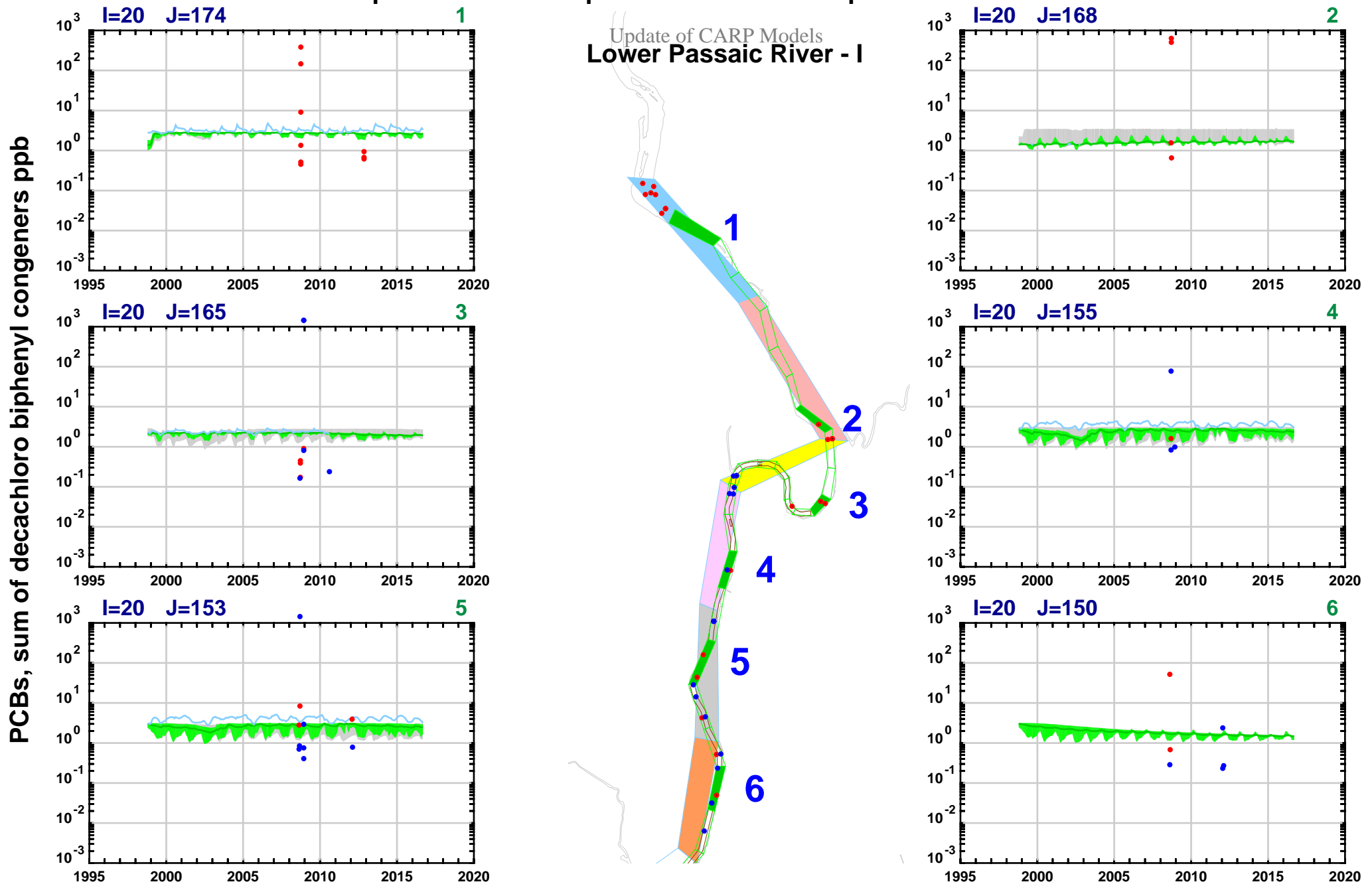


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

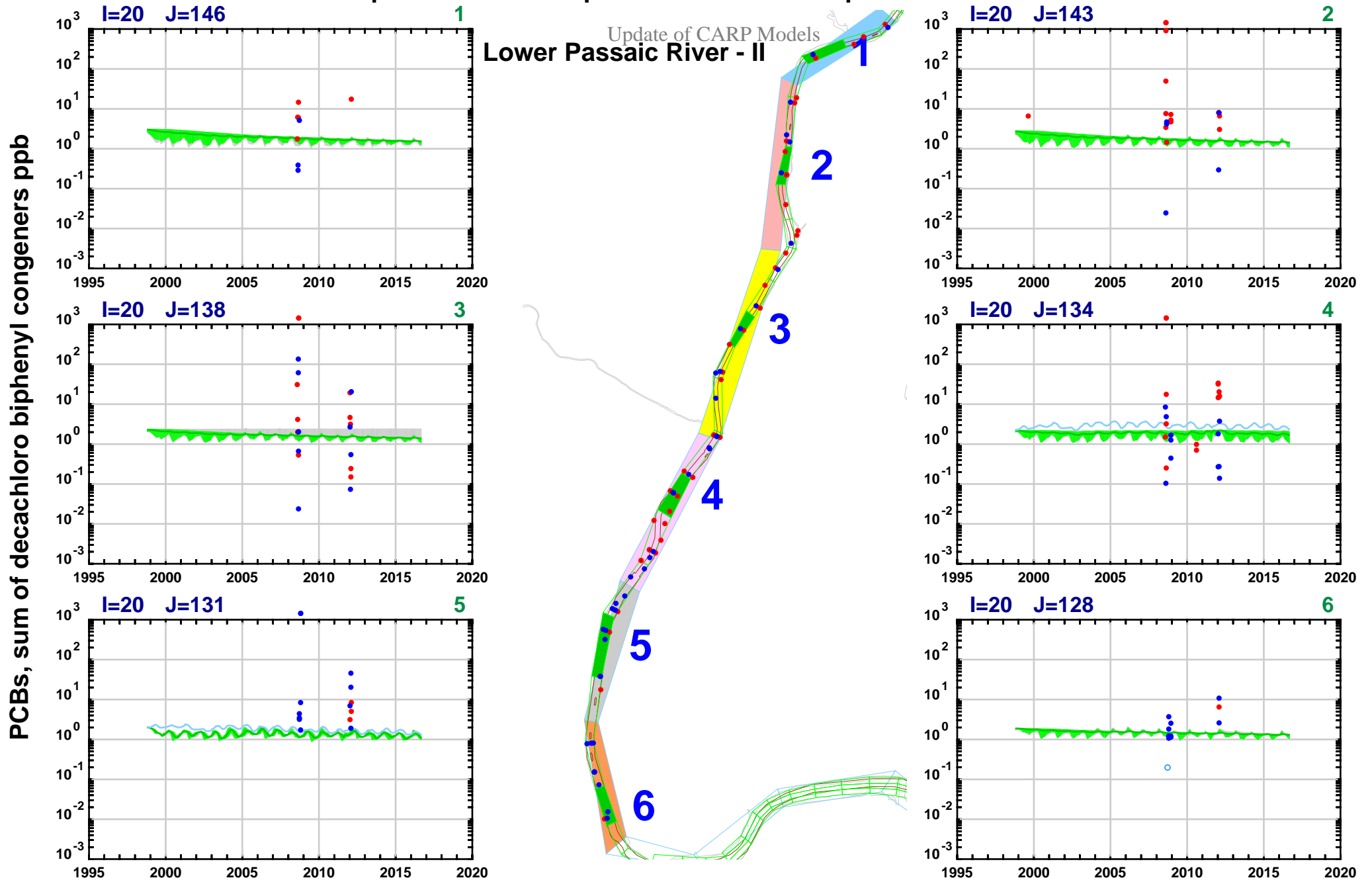


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

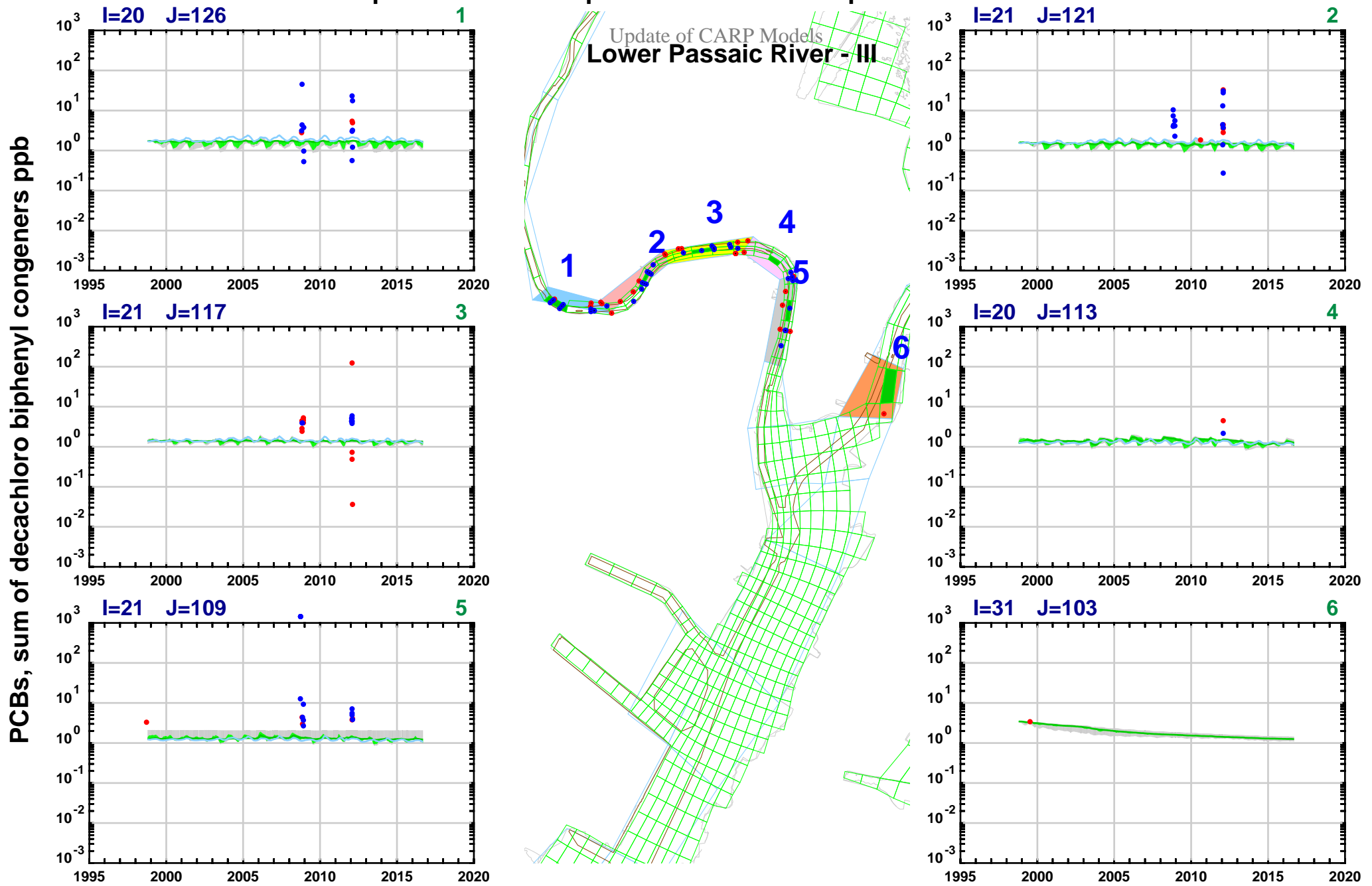


**RUN18\_S2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

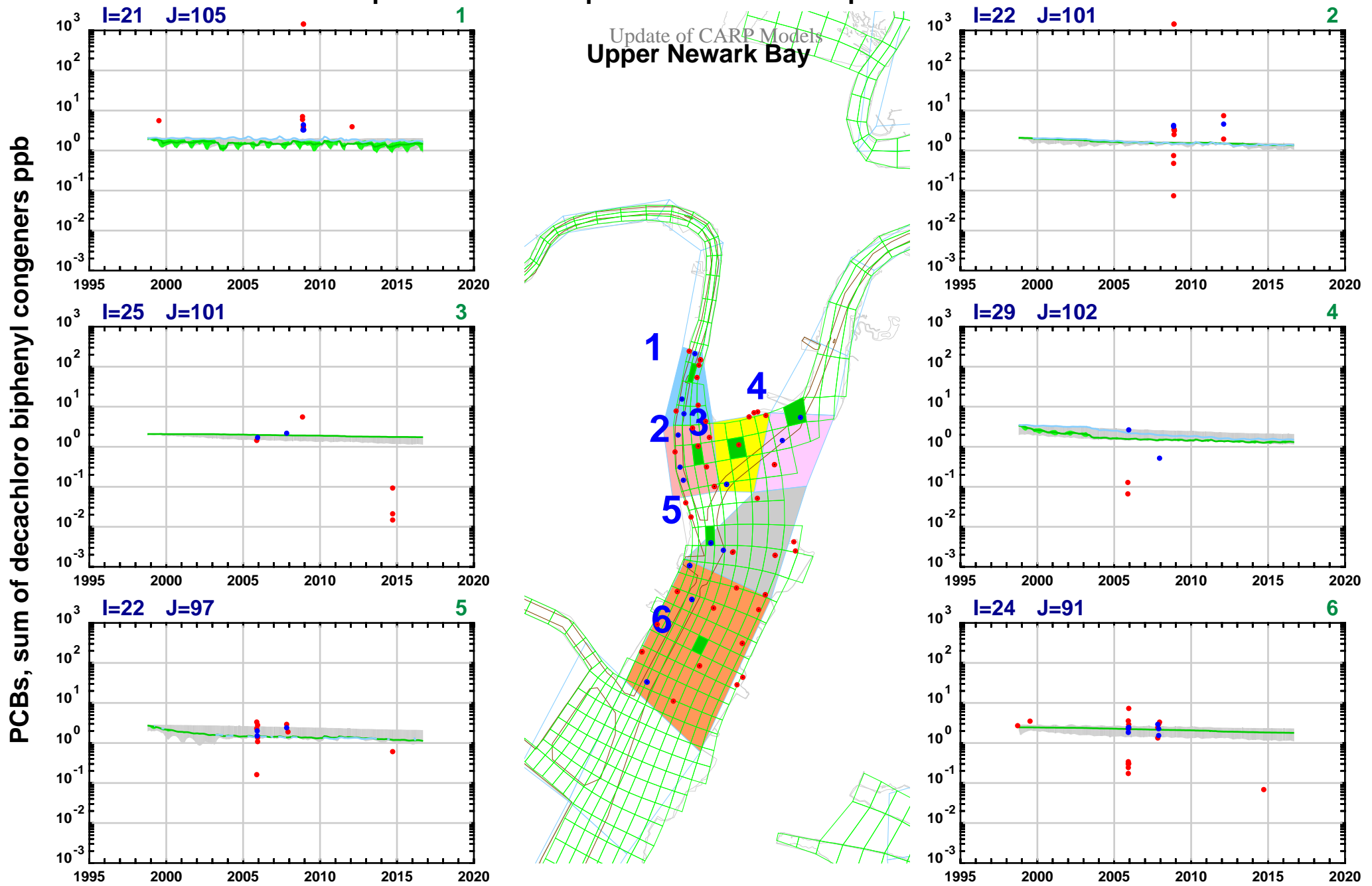


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

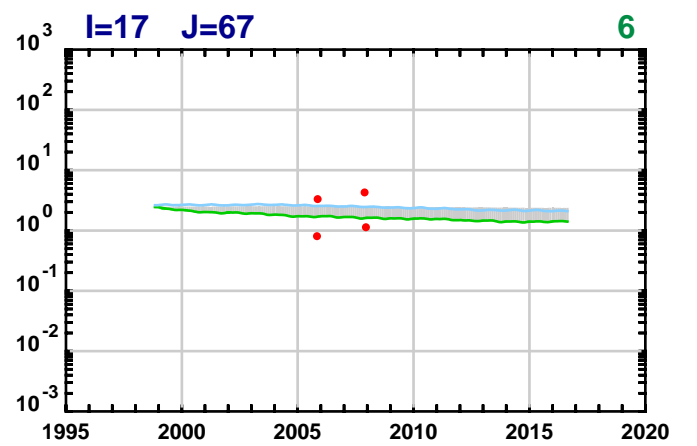
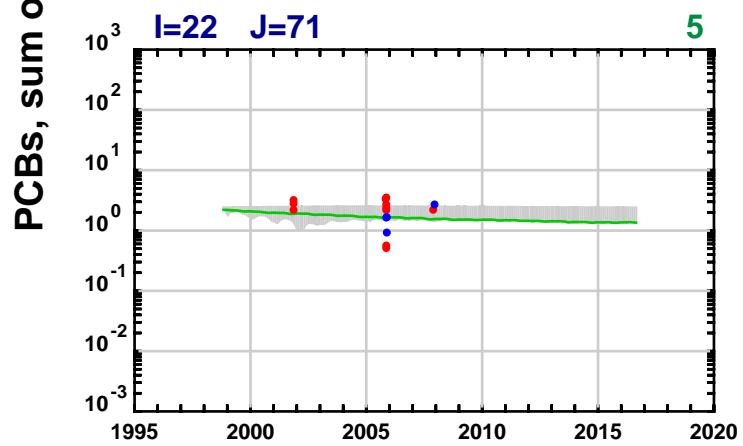
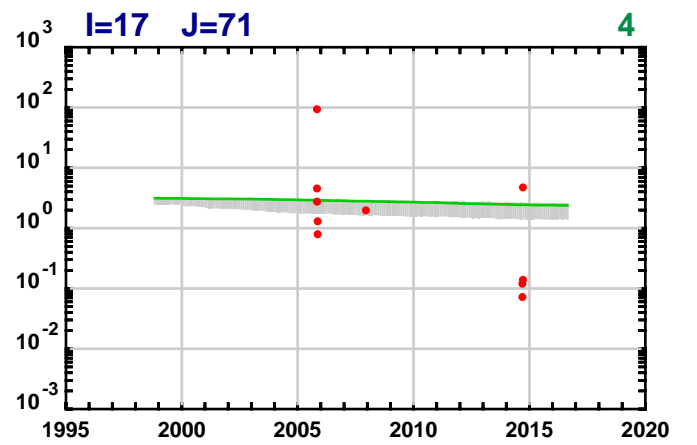
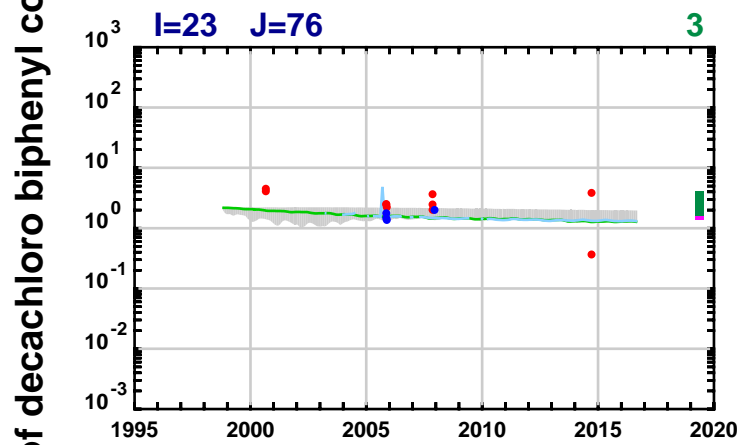
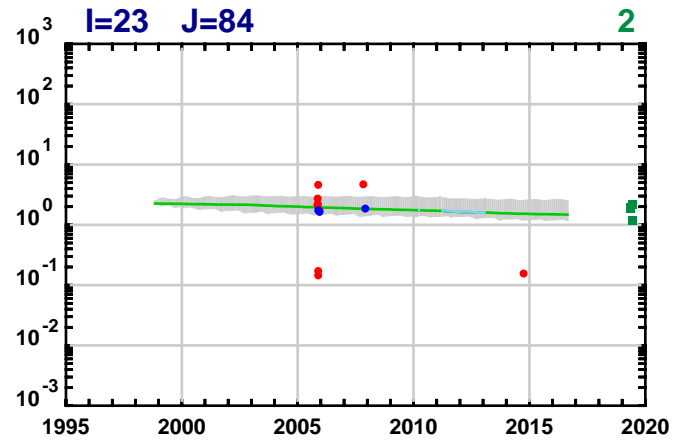
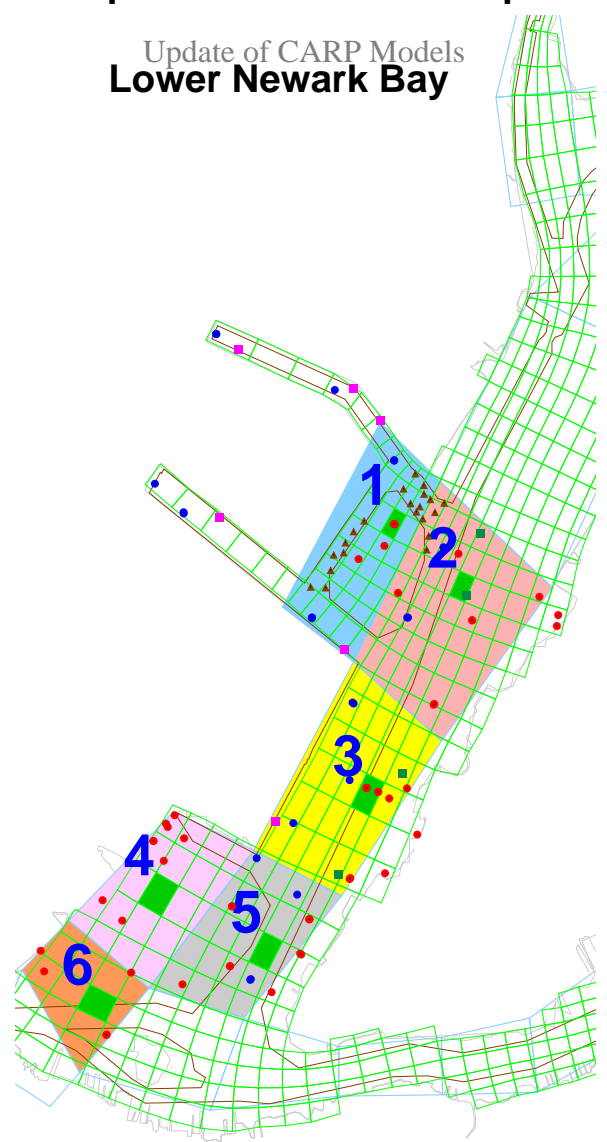
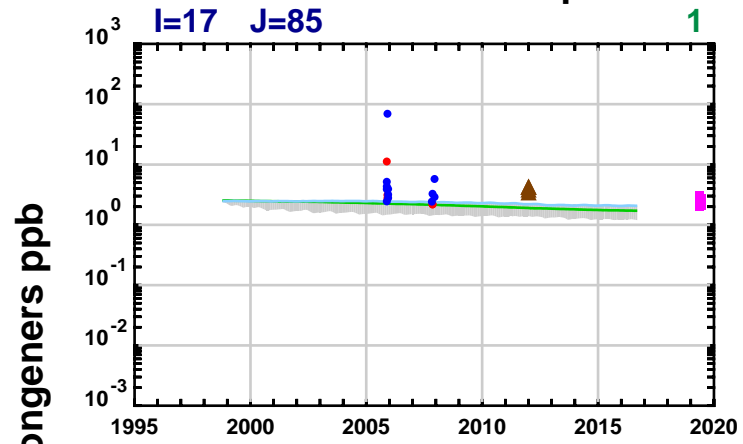


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



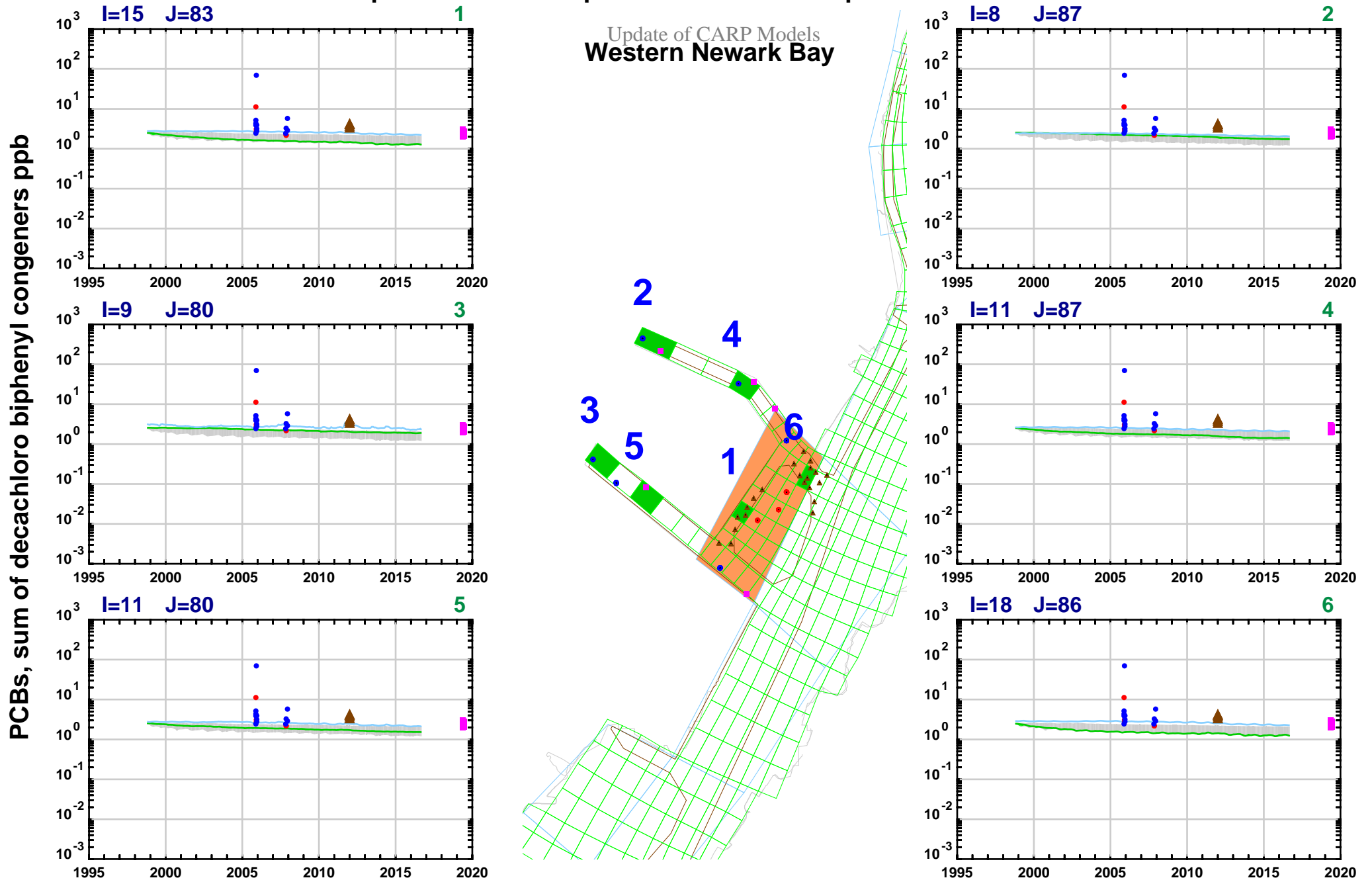
RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



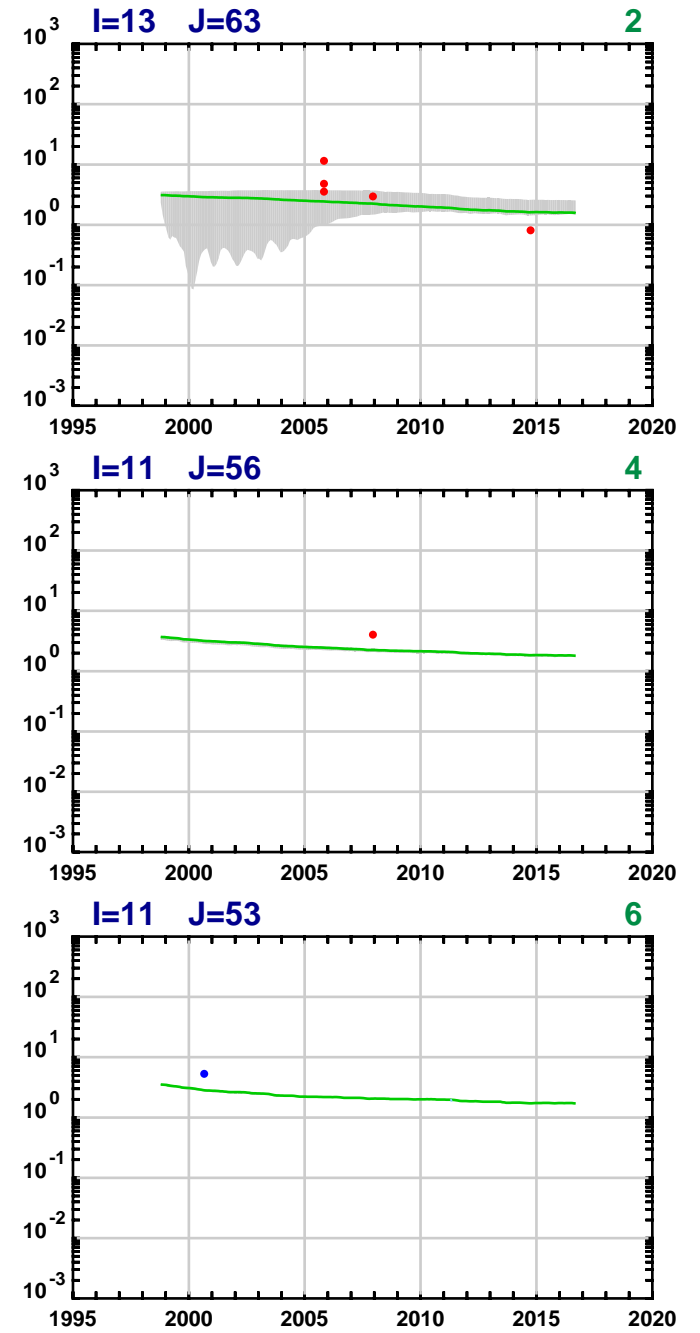
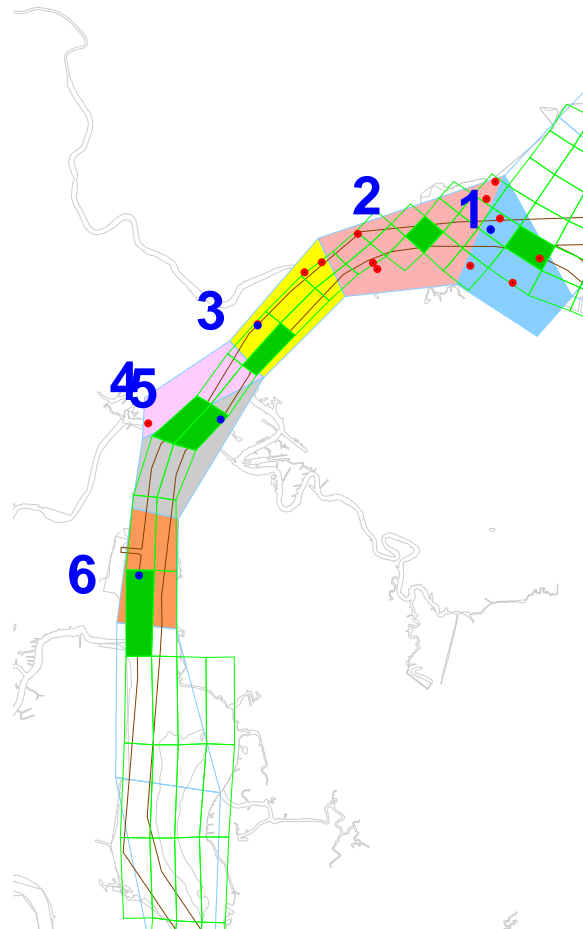
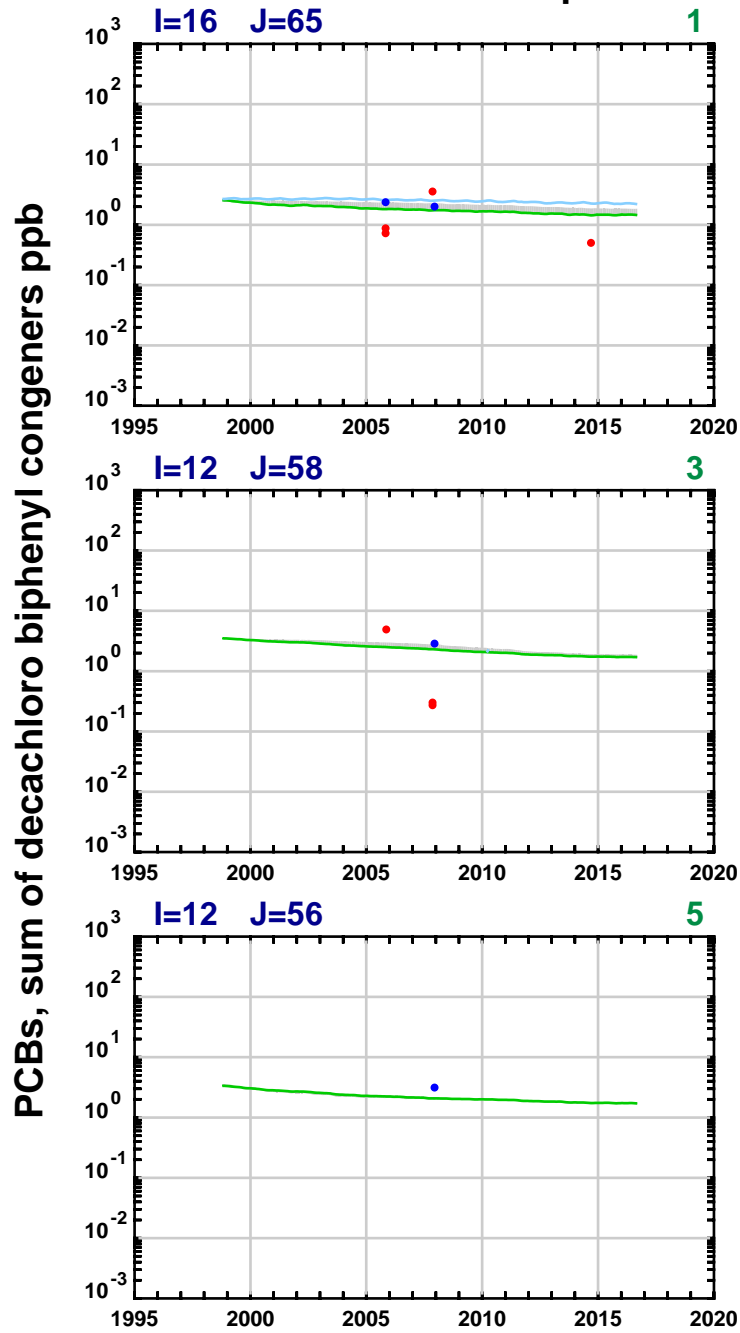
**RUN18\_S2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

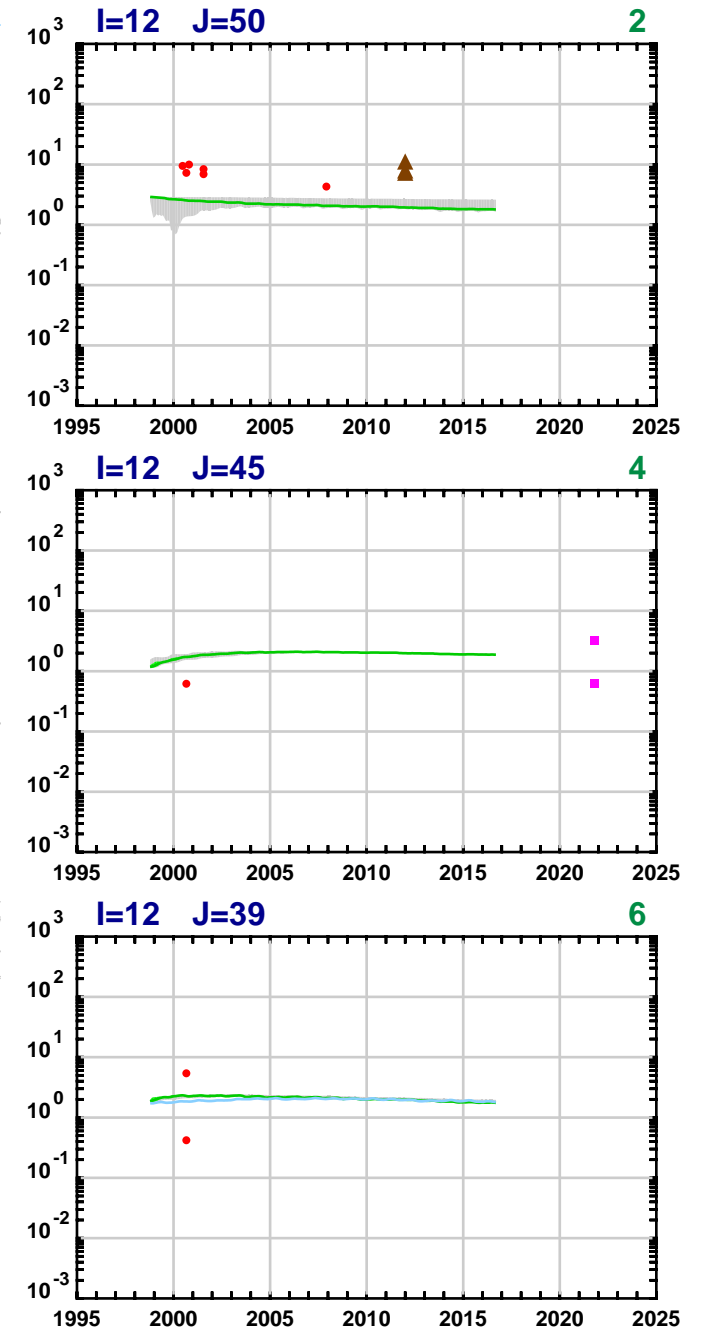
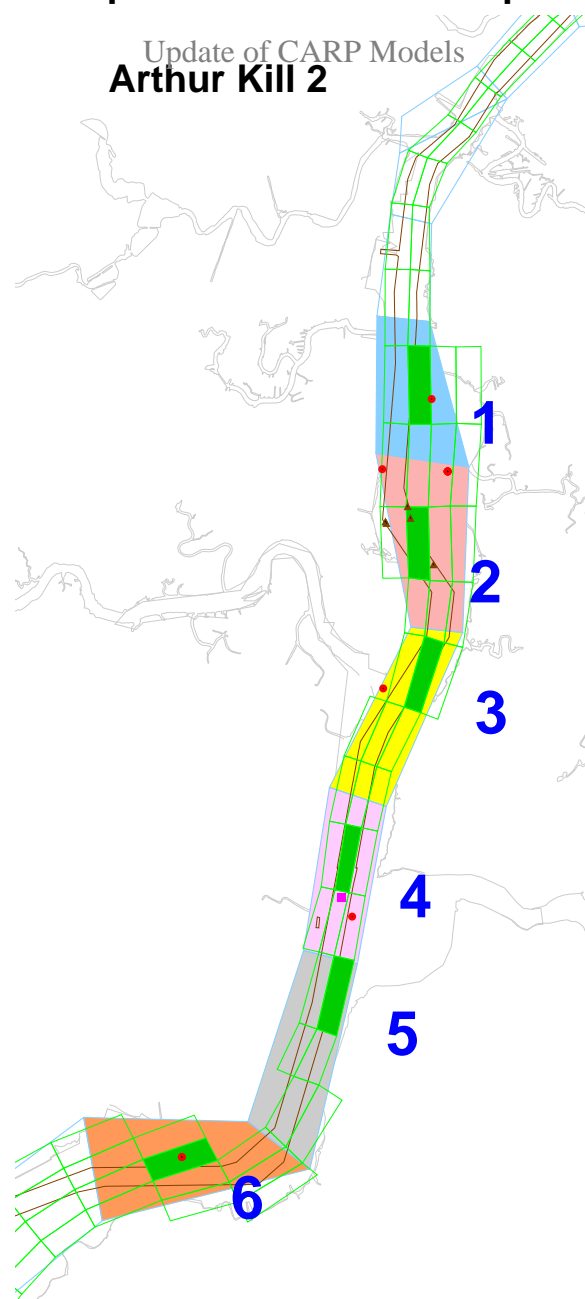
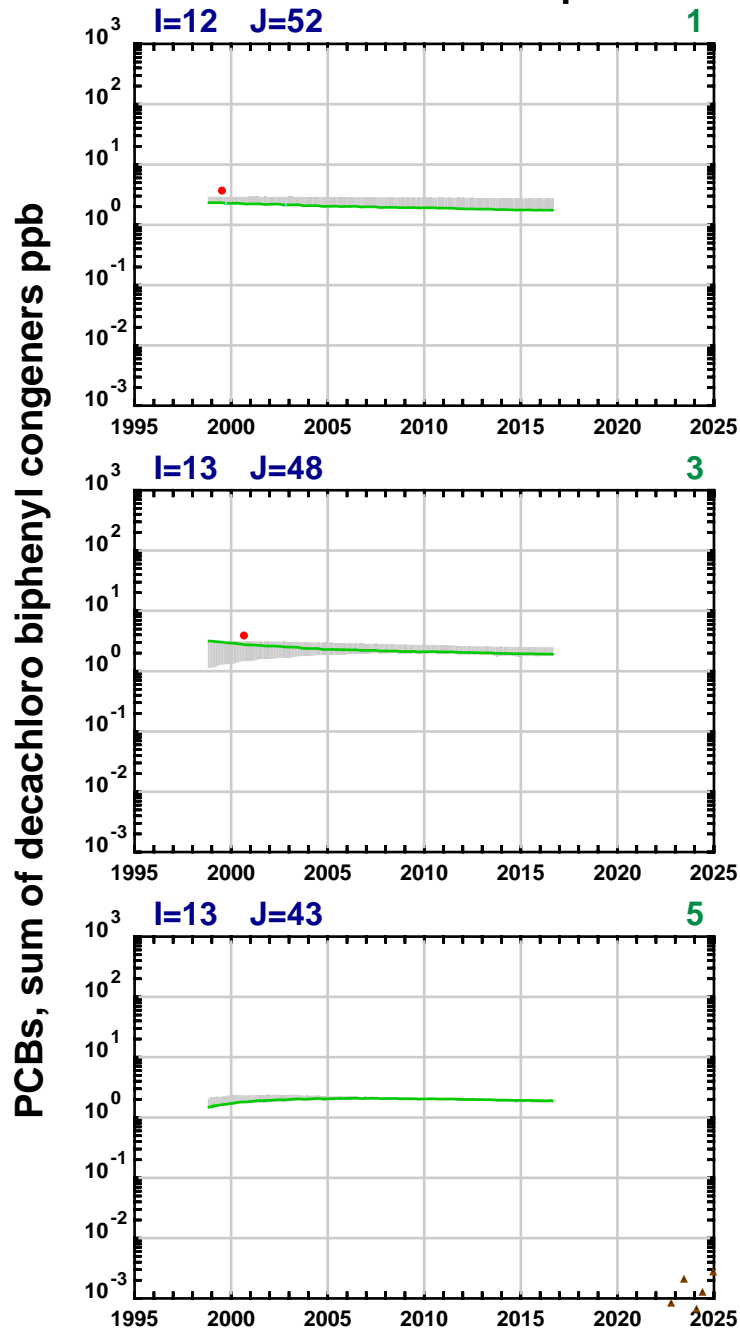


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

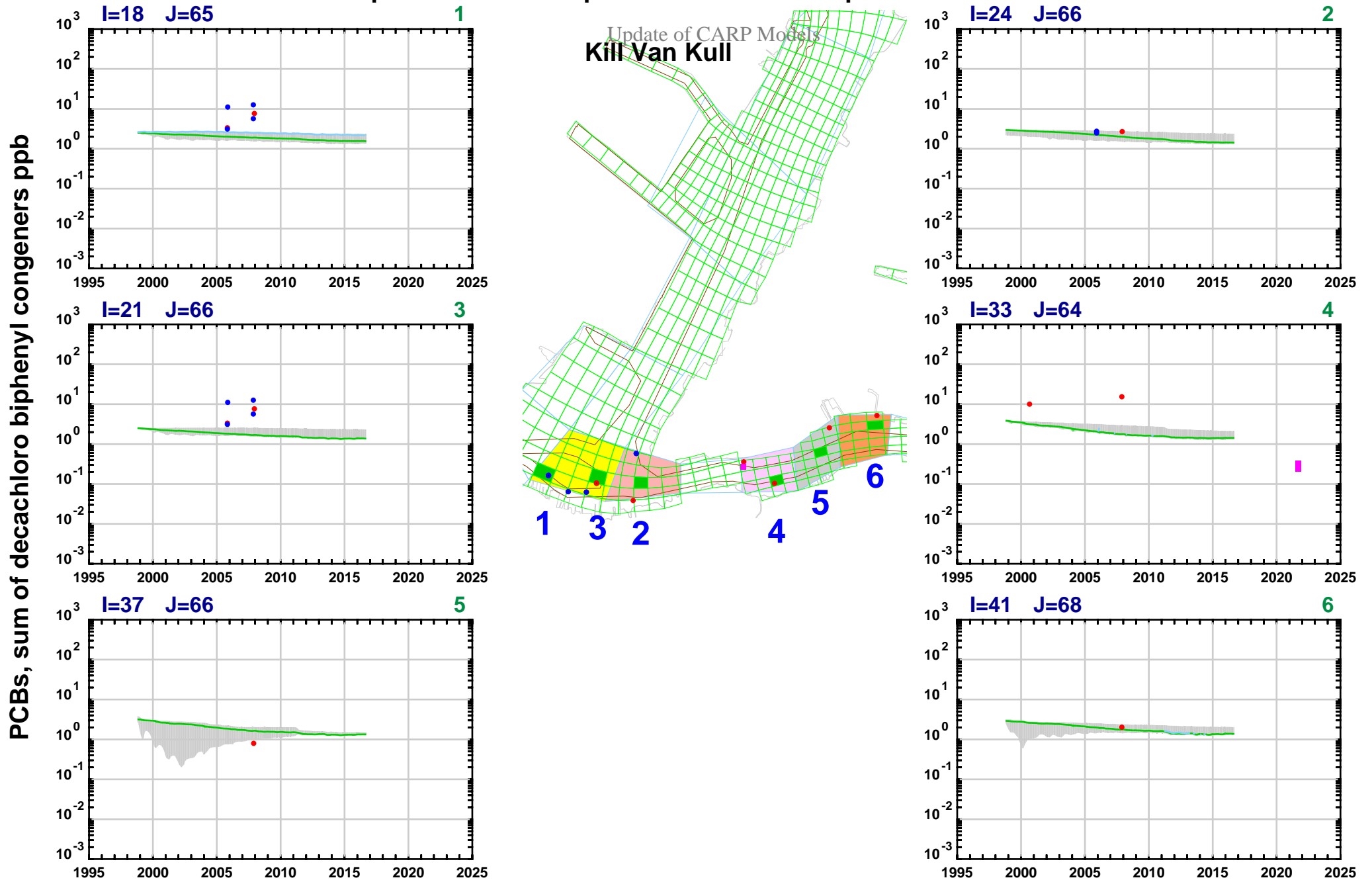


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

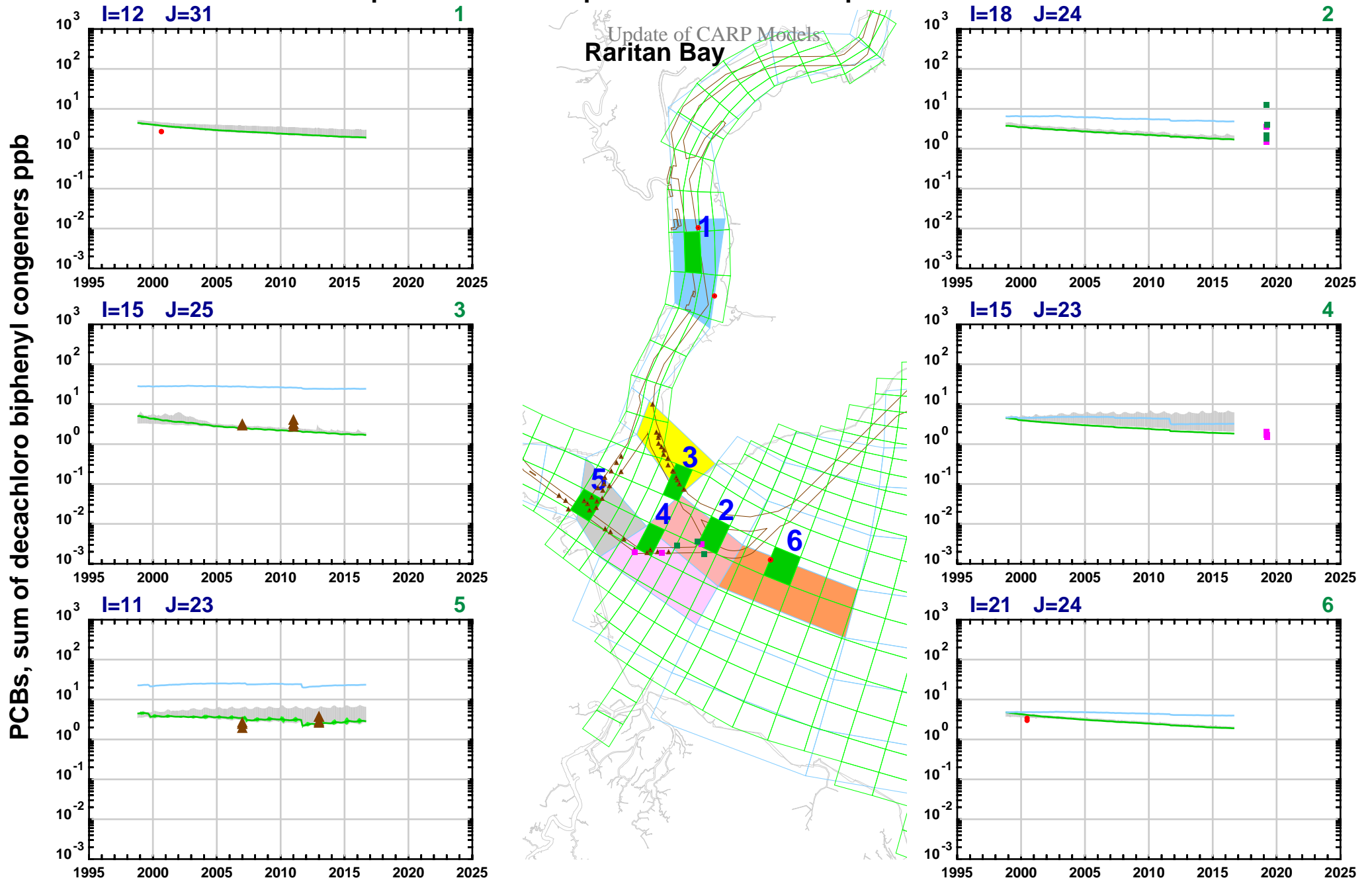


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

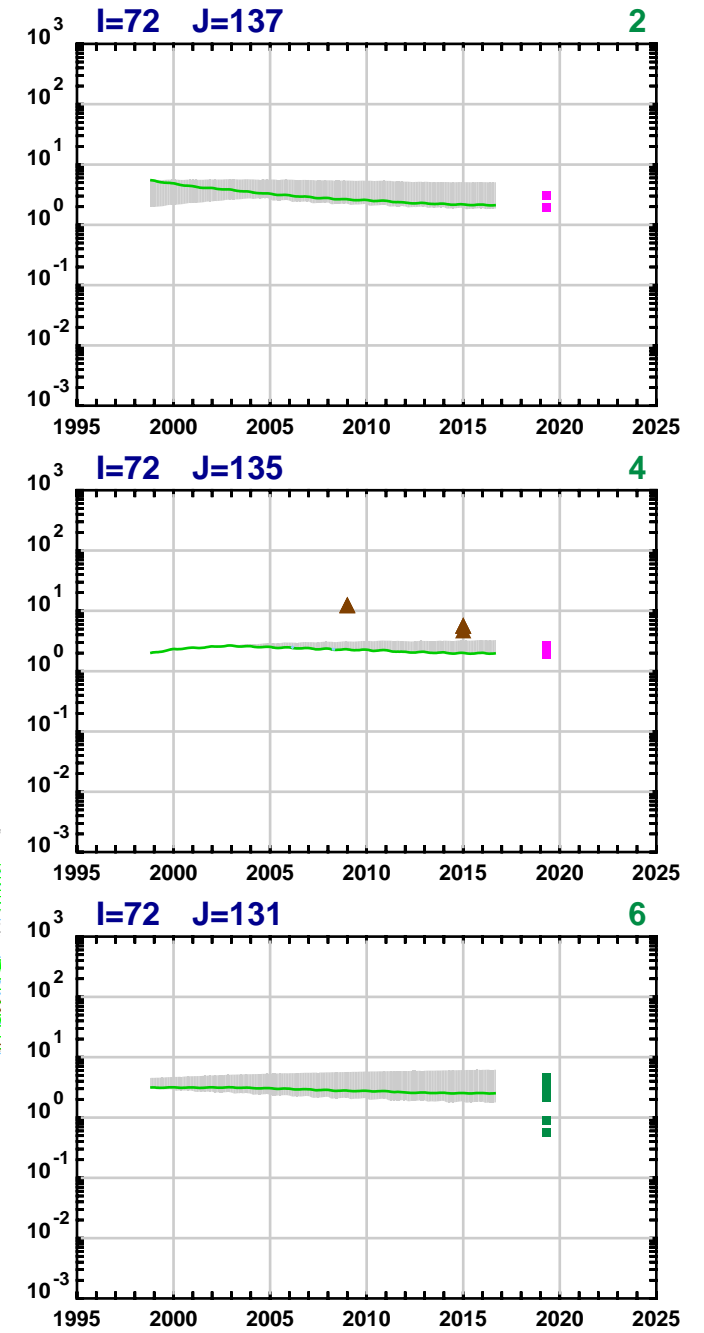
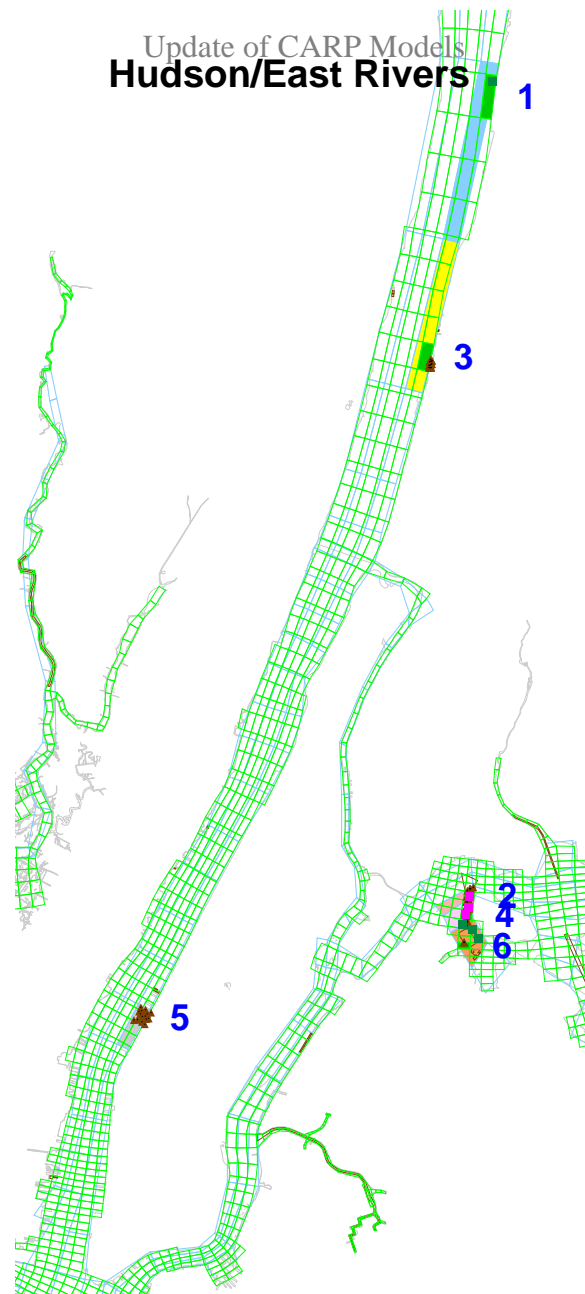
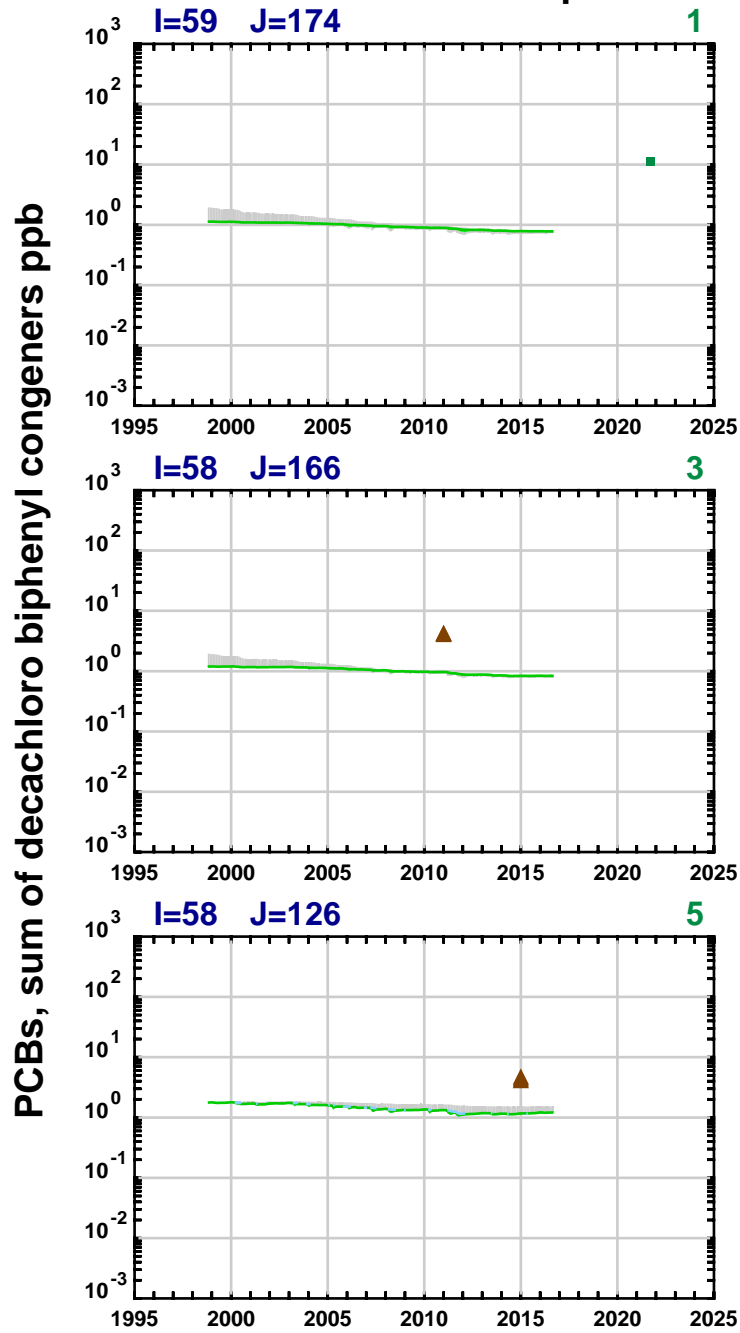


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

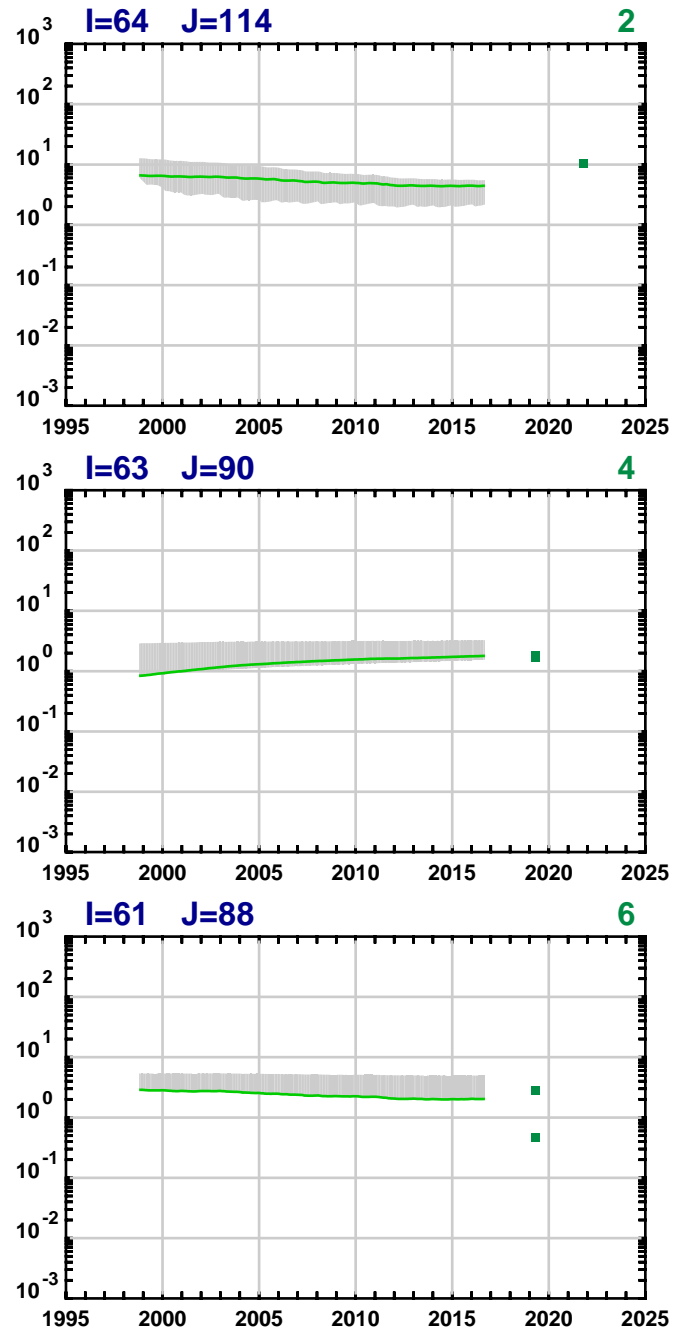
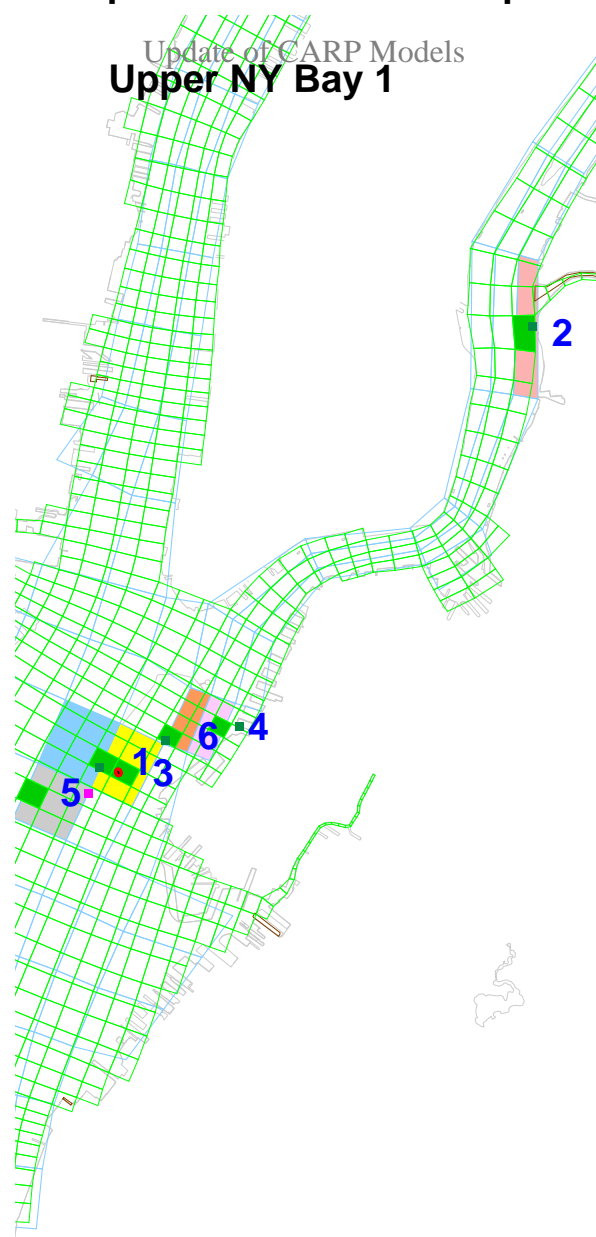
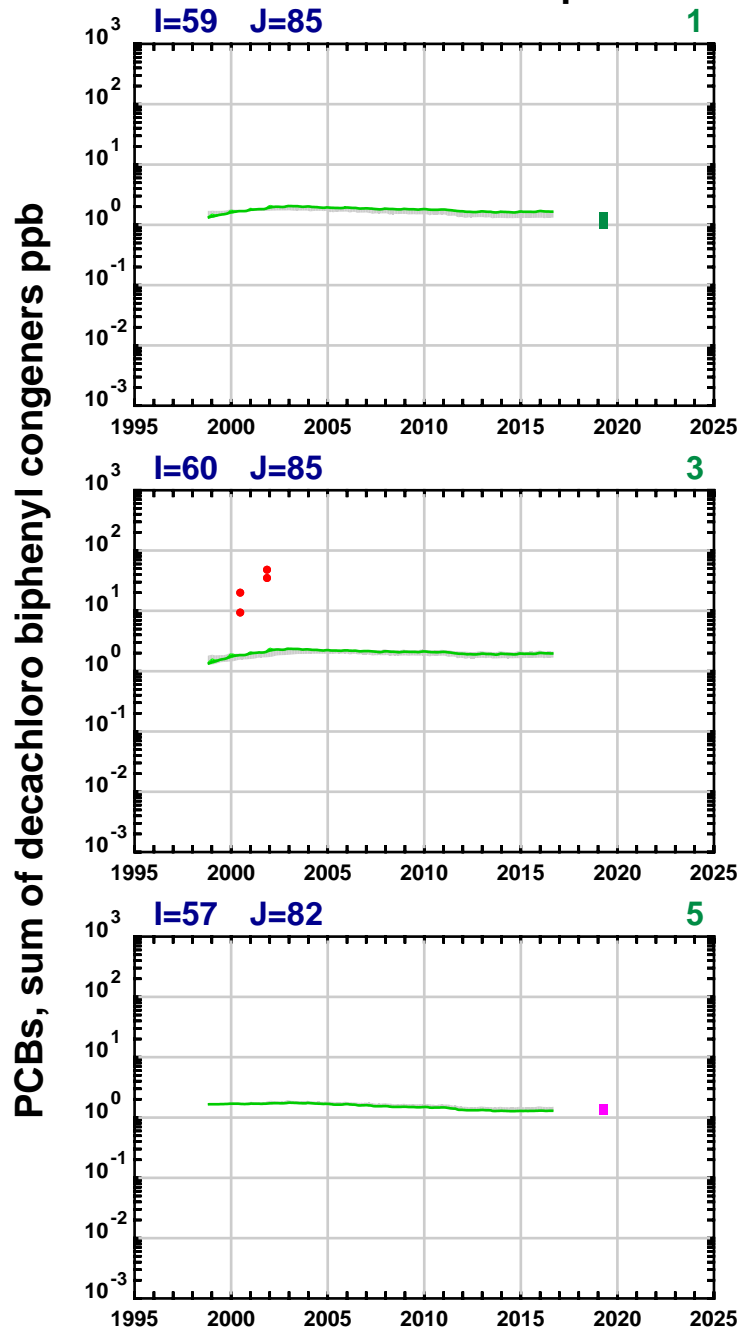


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



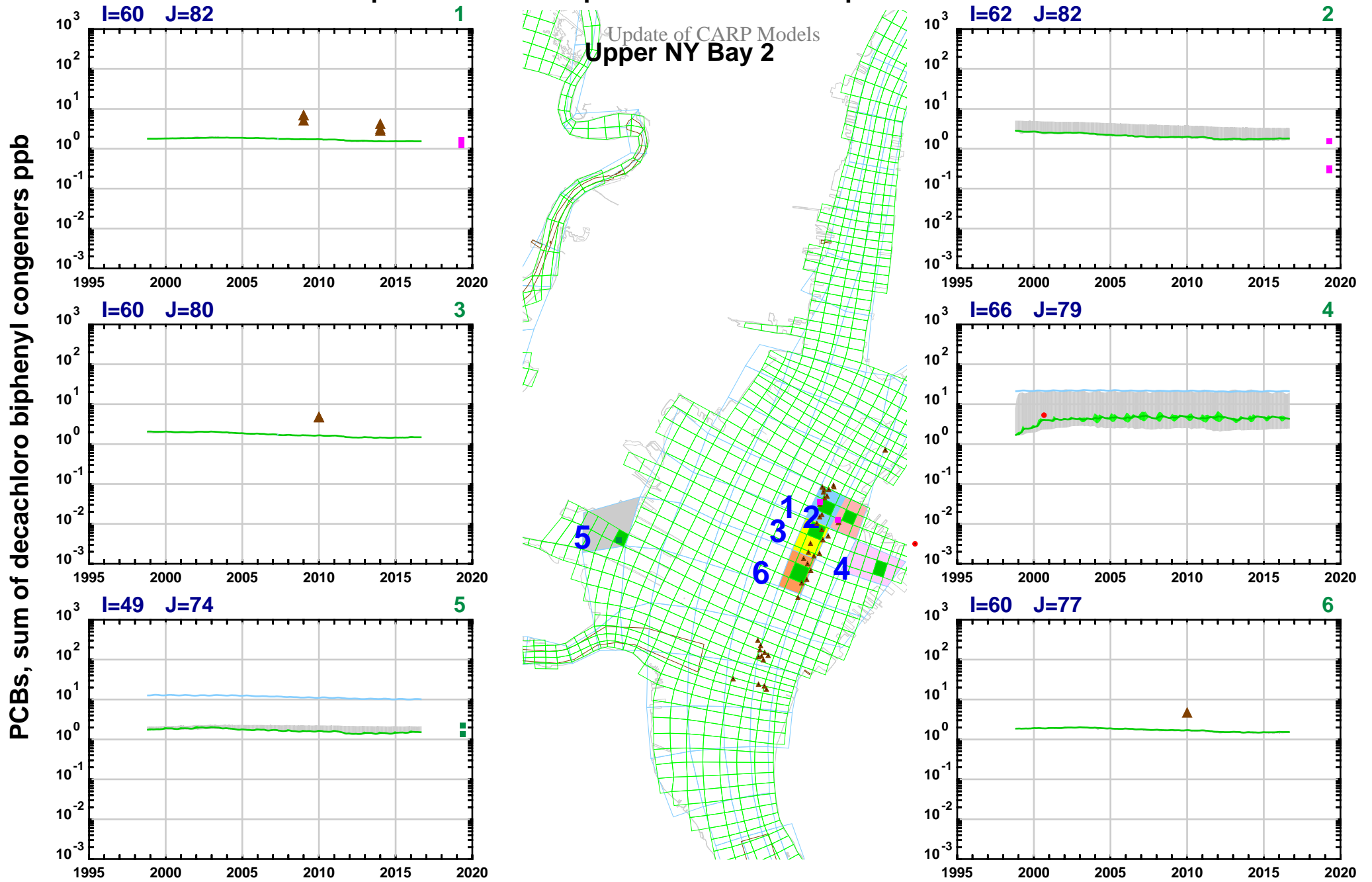
RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

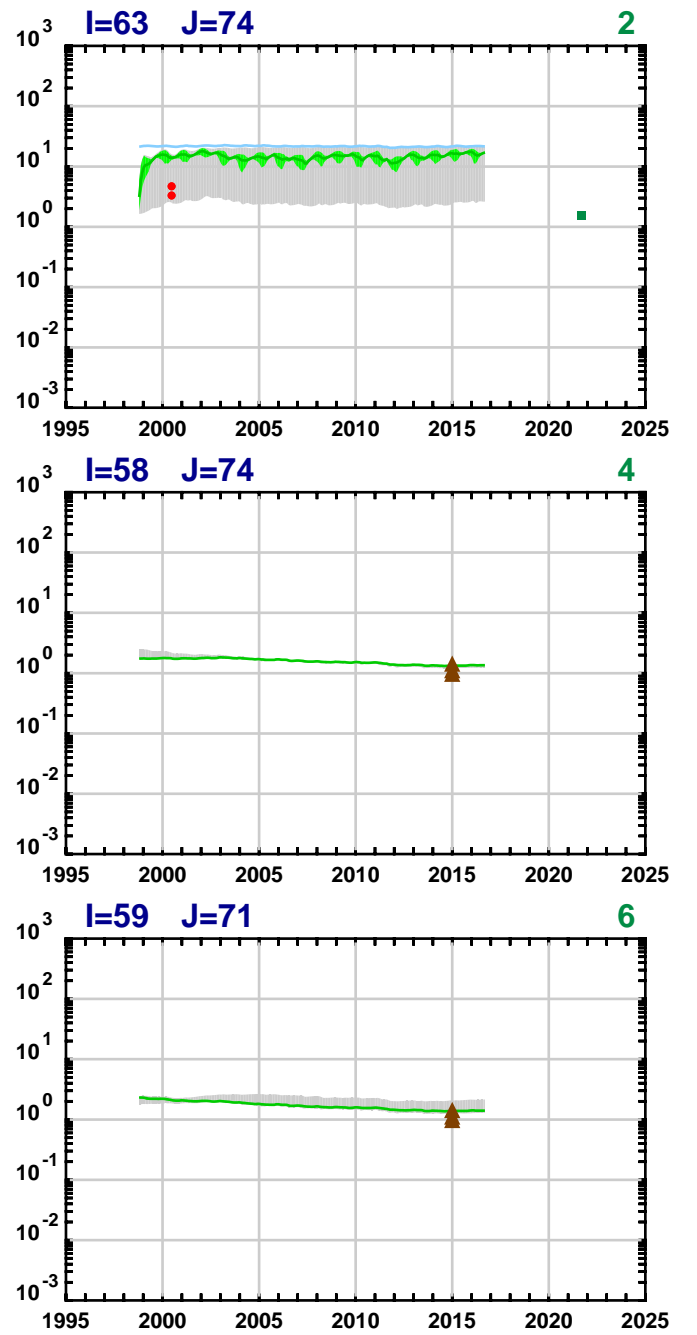
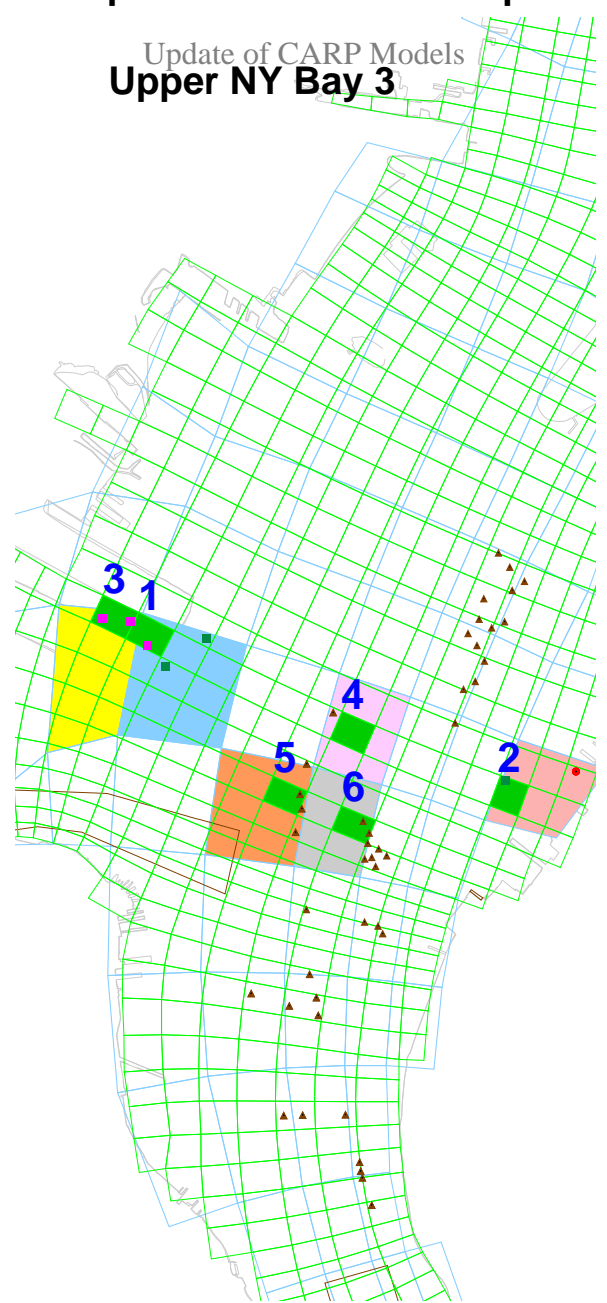
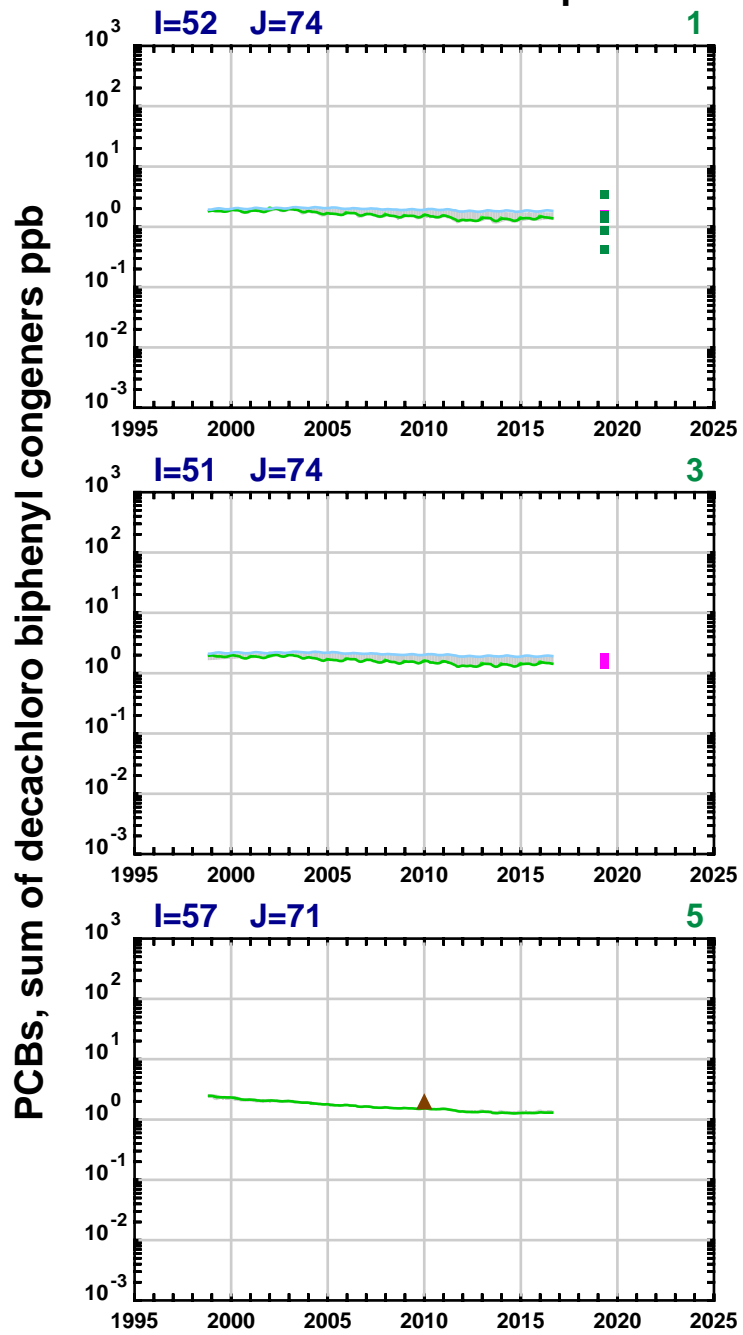


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

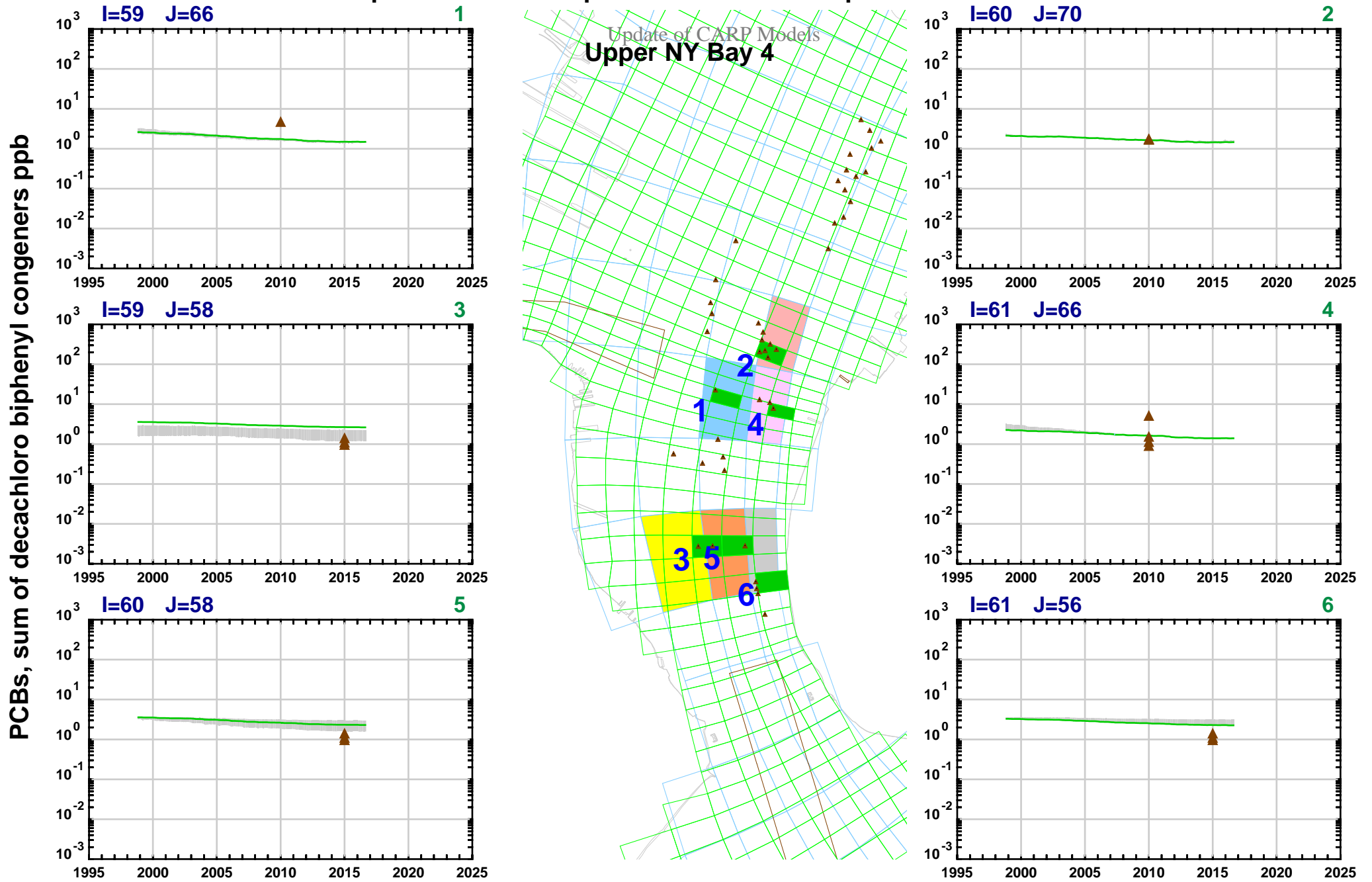


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

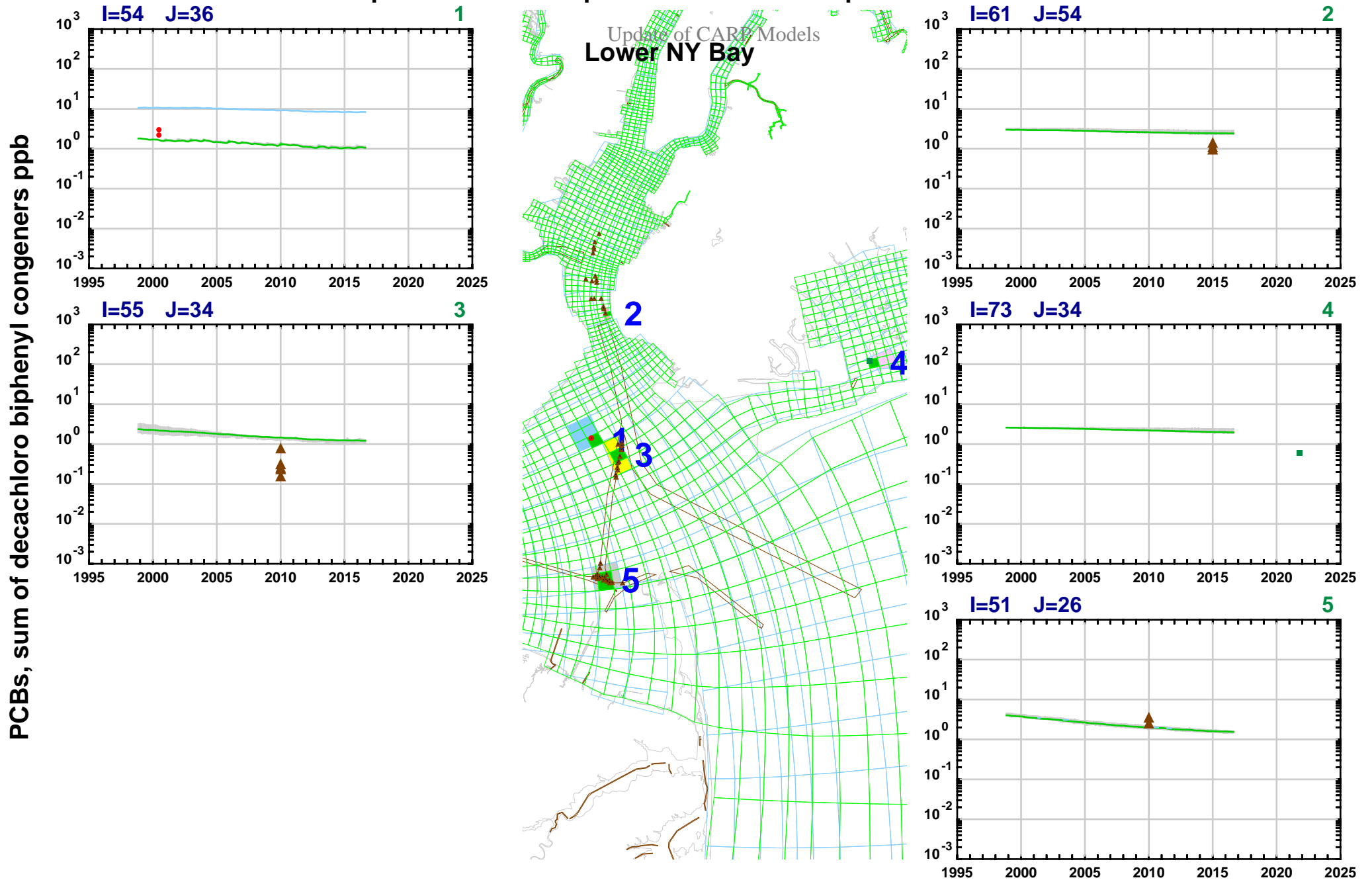


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



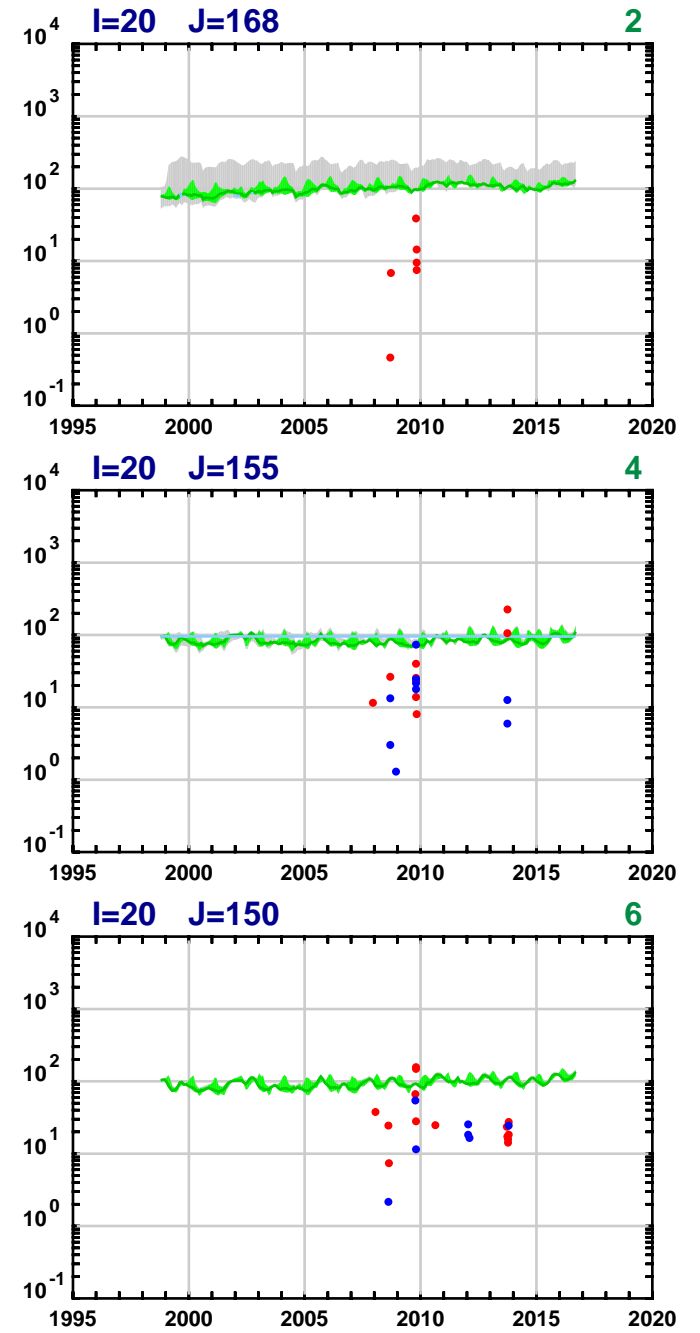
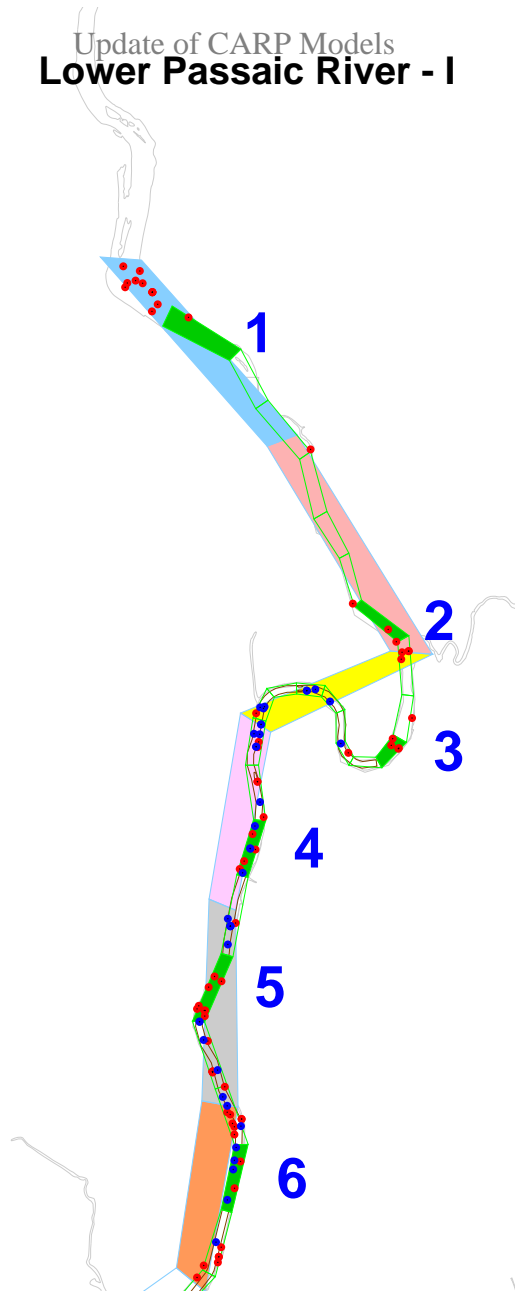
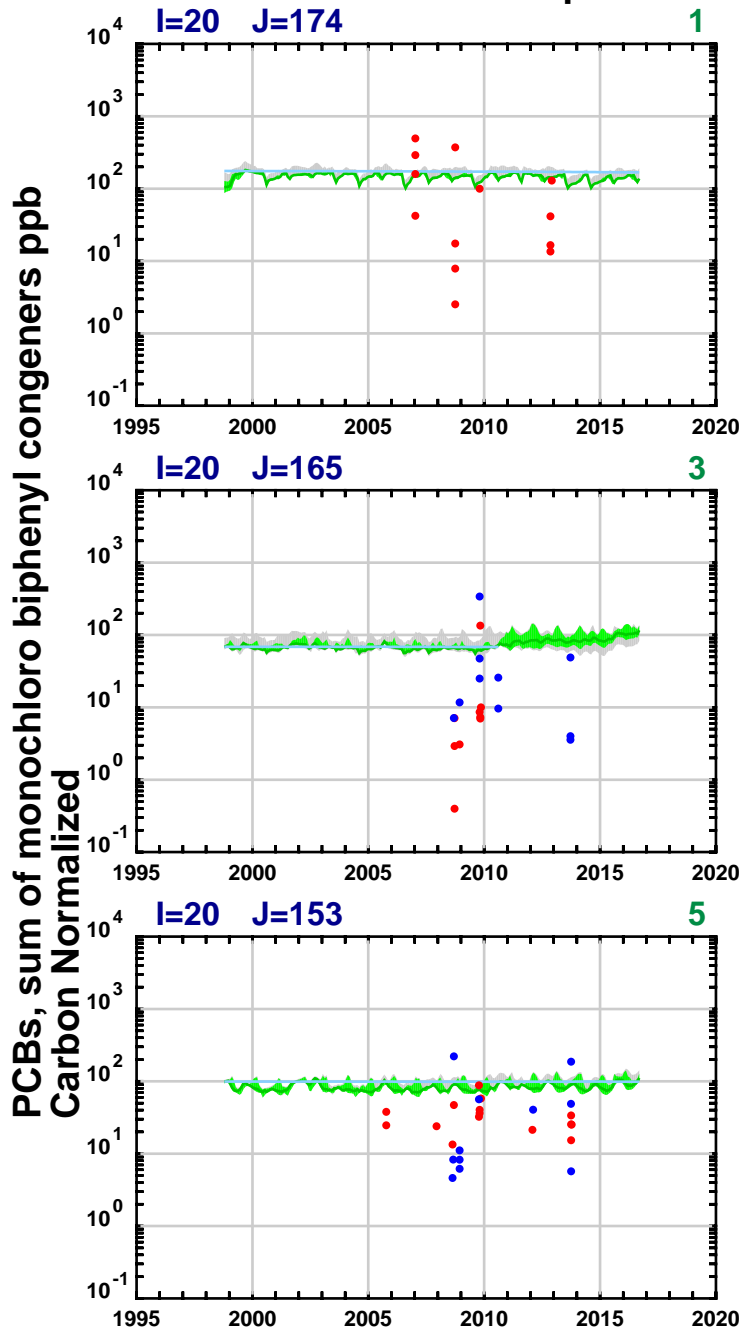
RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

## Update of CARP Models Lower Passaic River - I

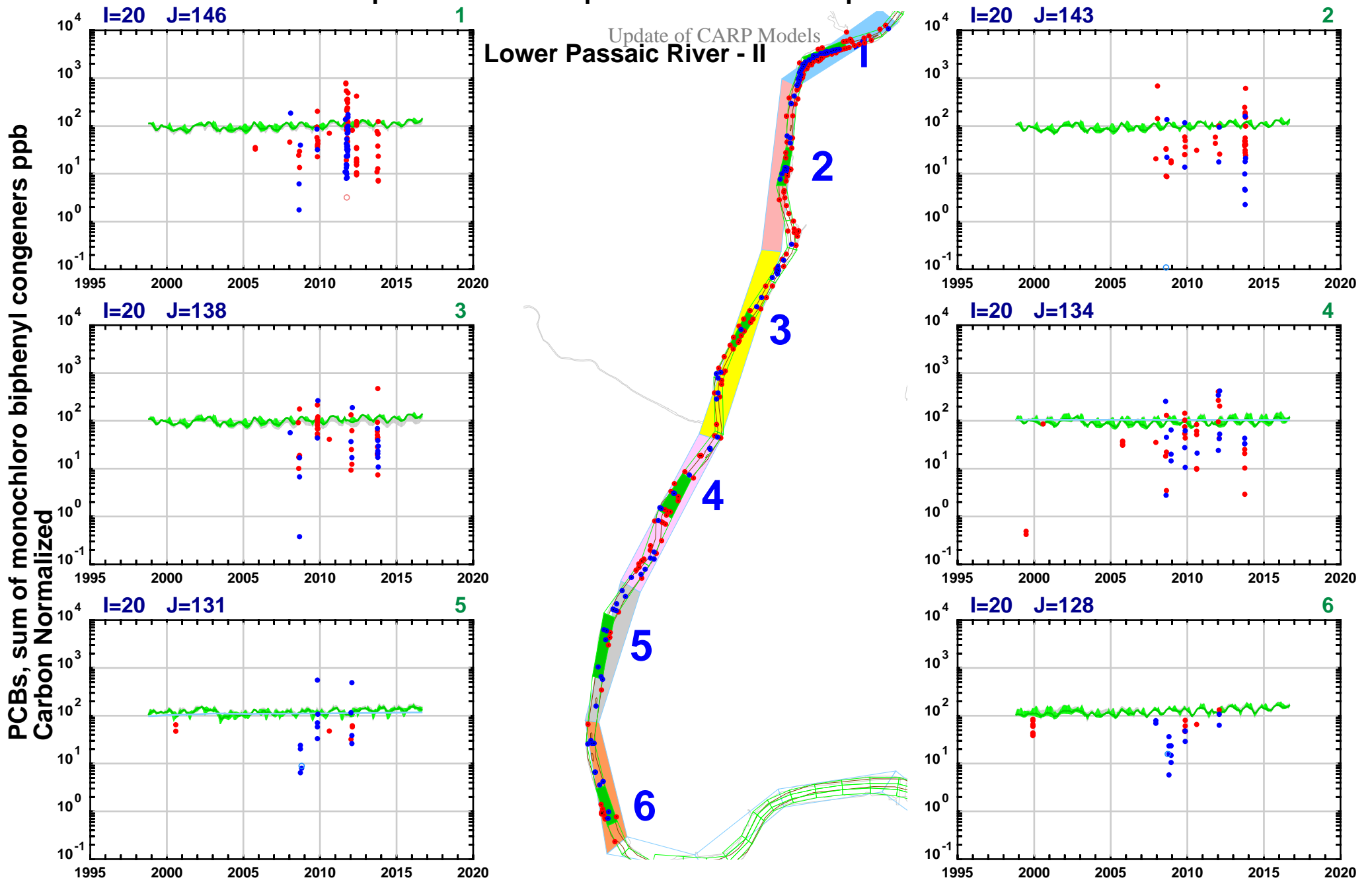


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



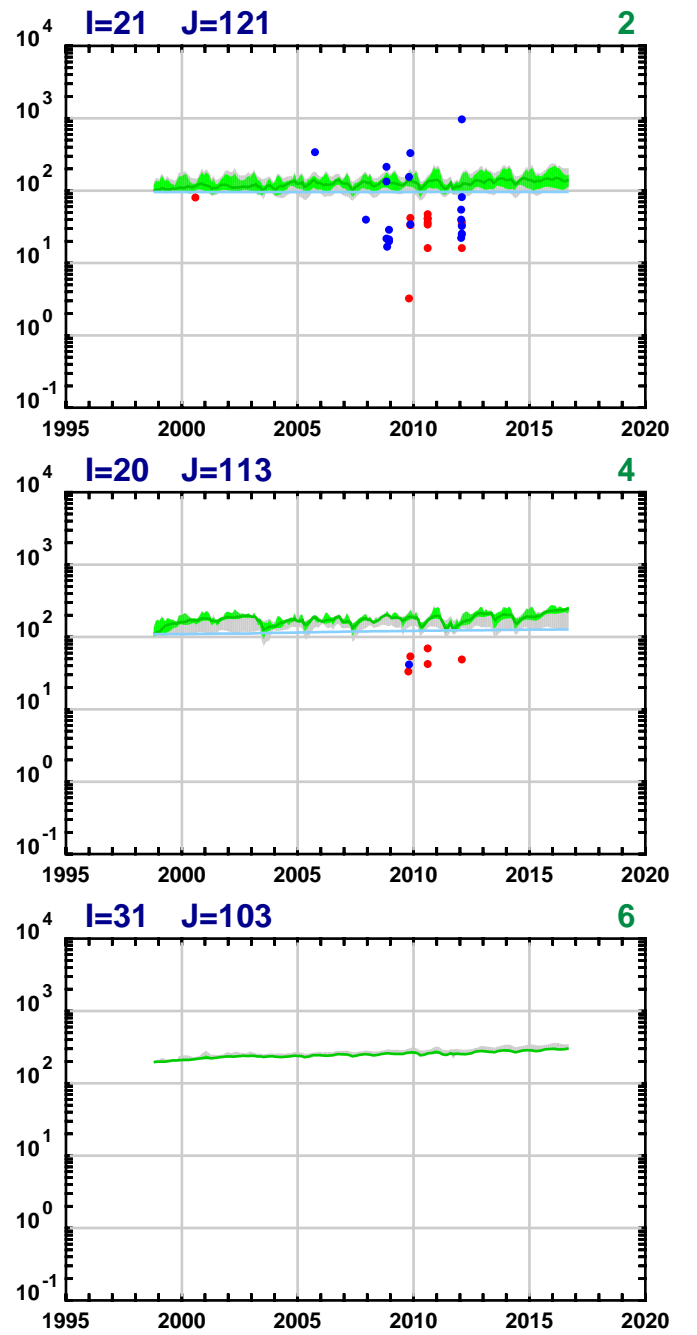
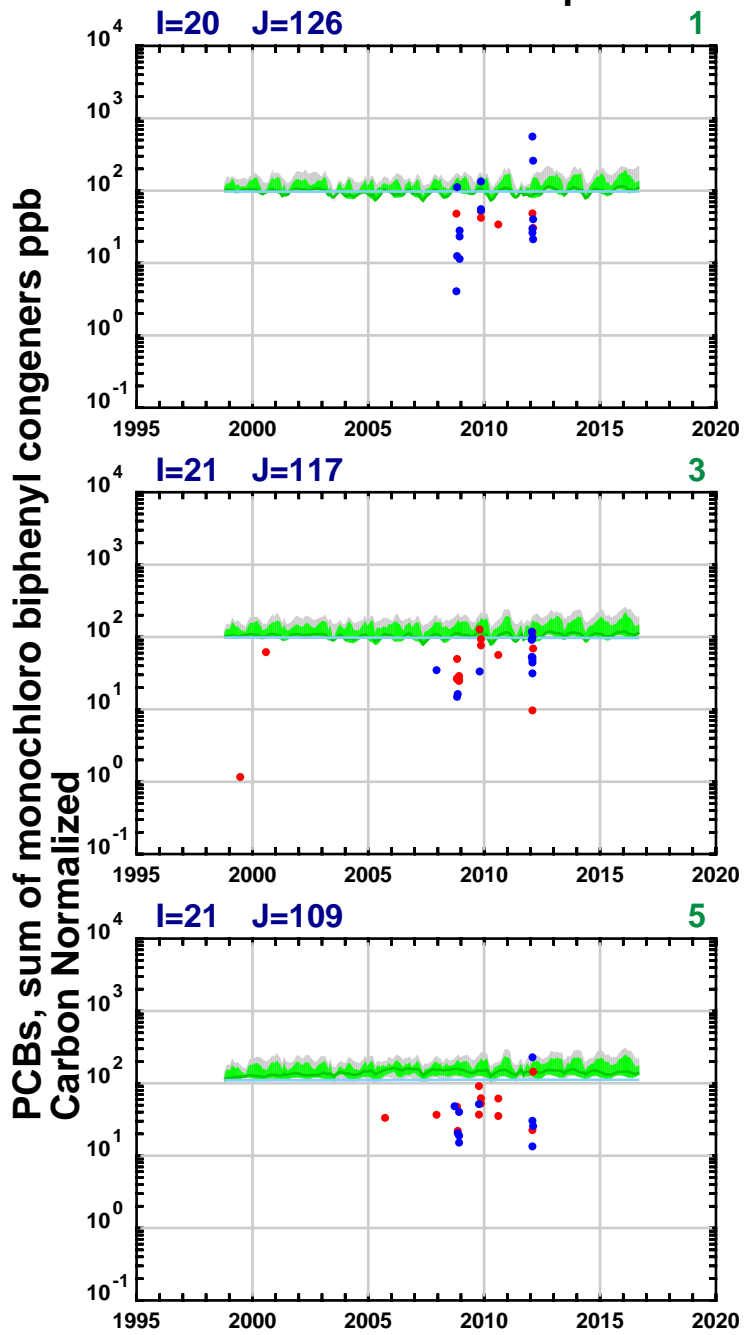
RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



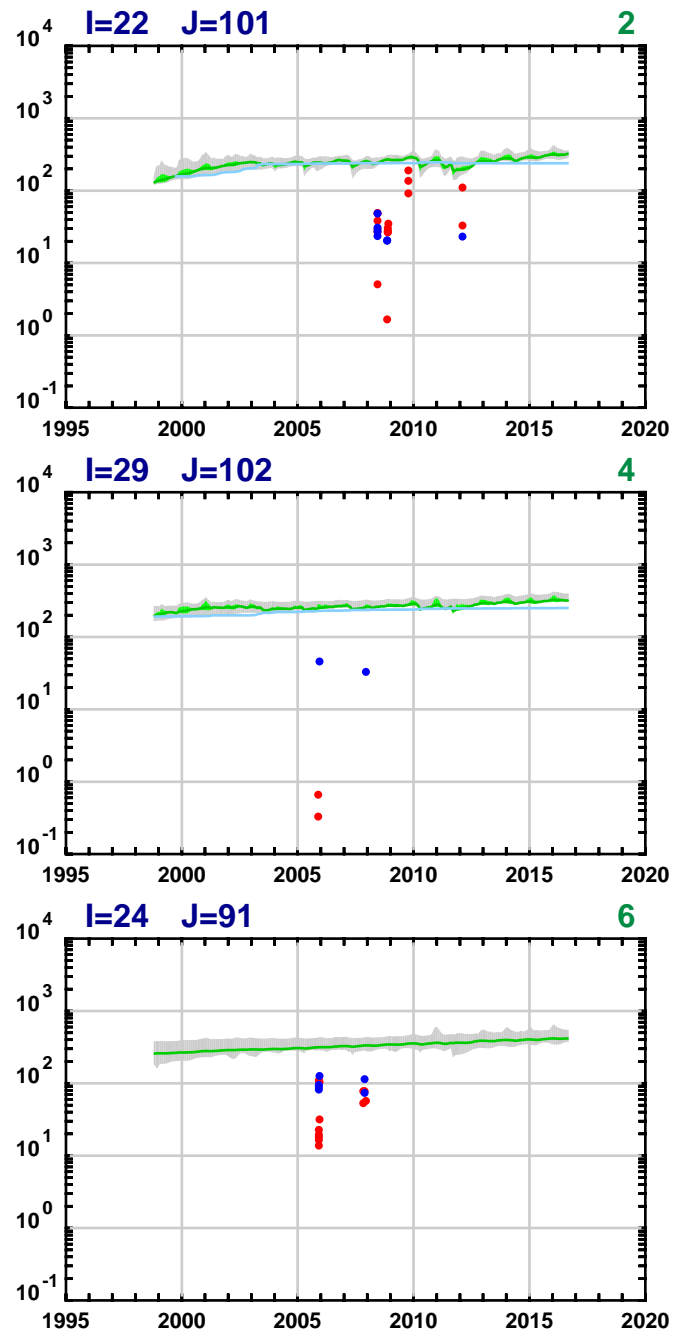
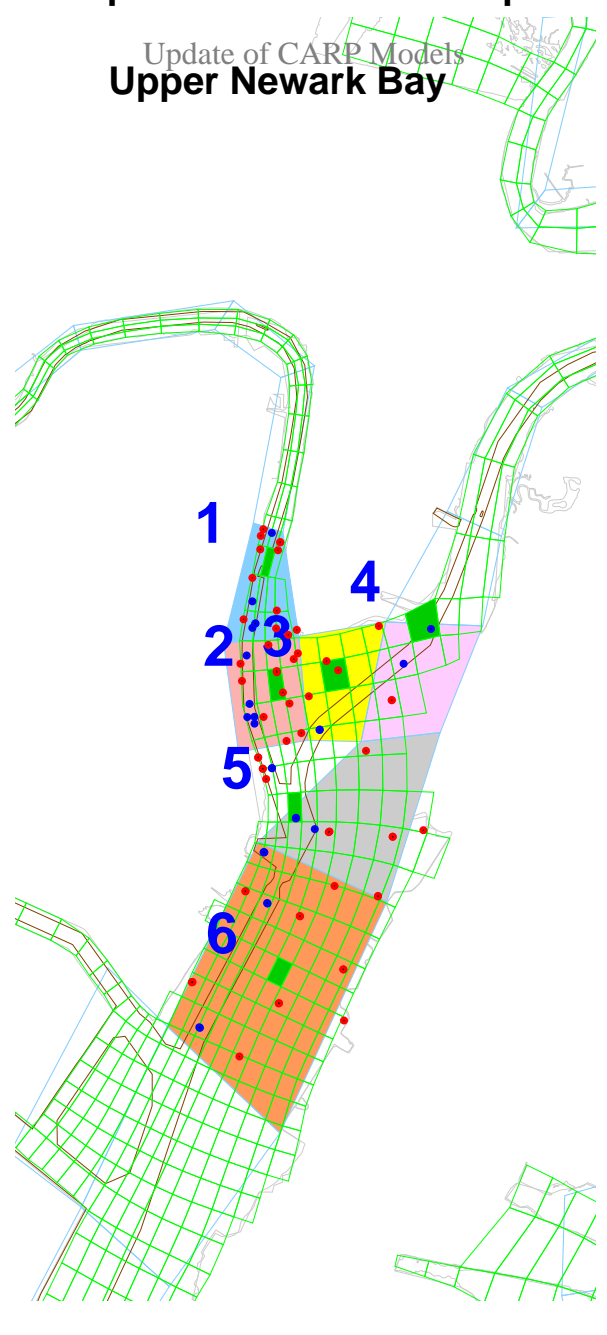
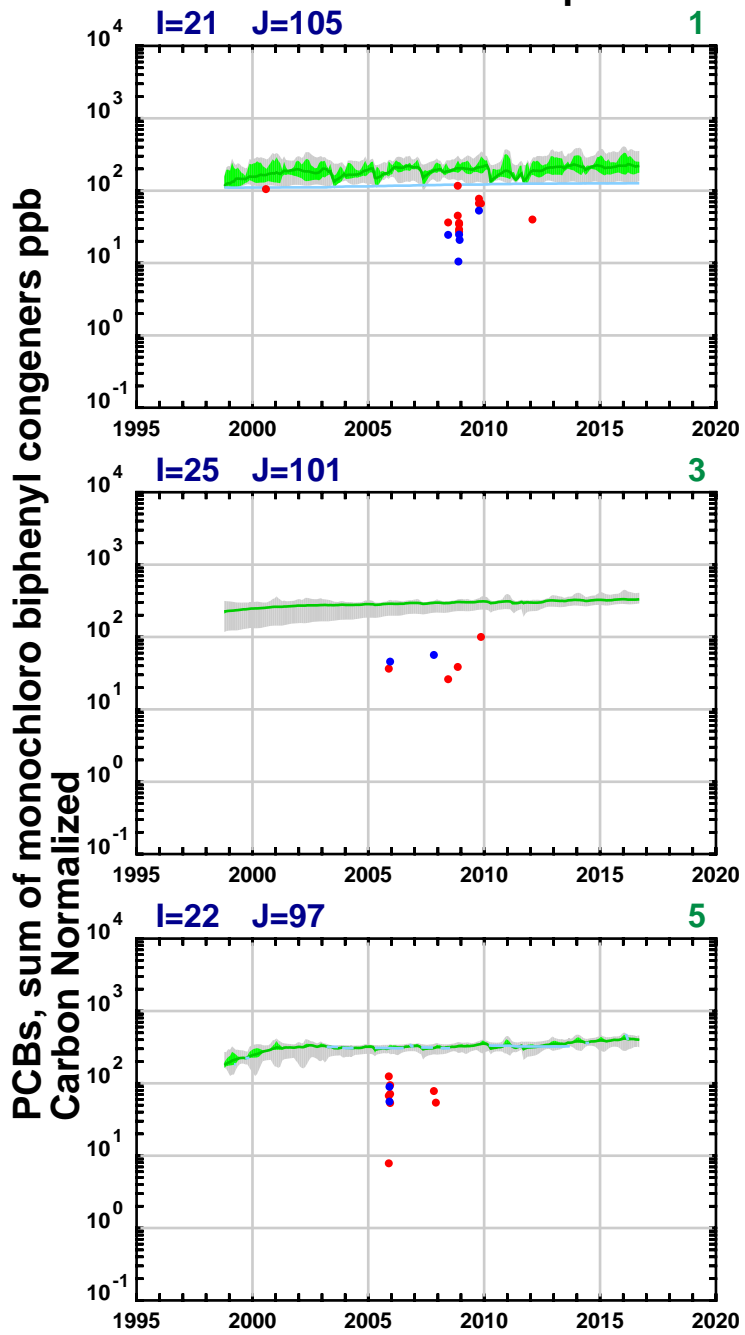
RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



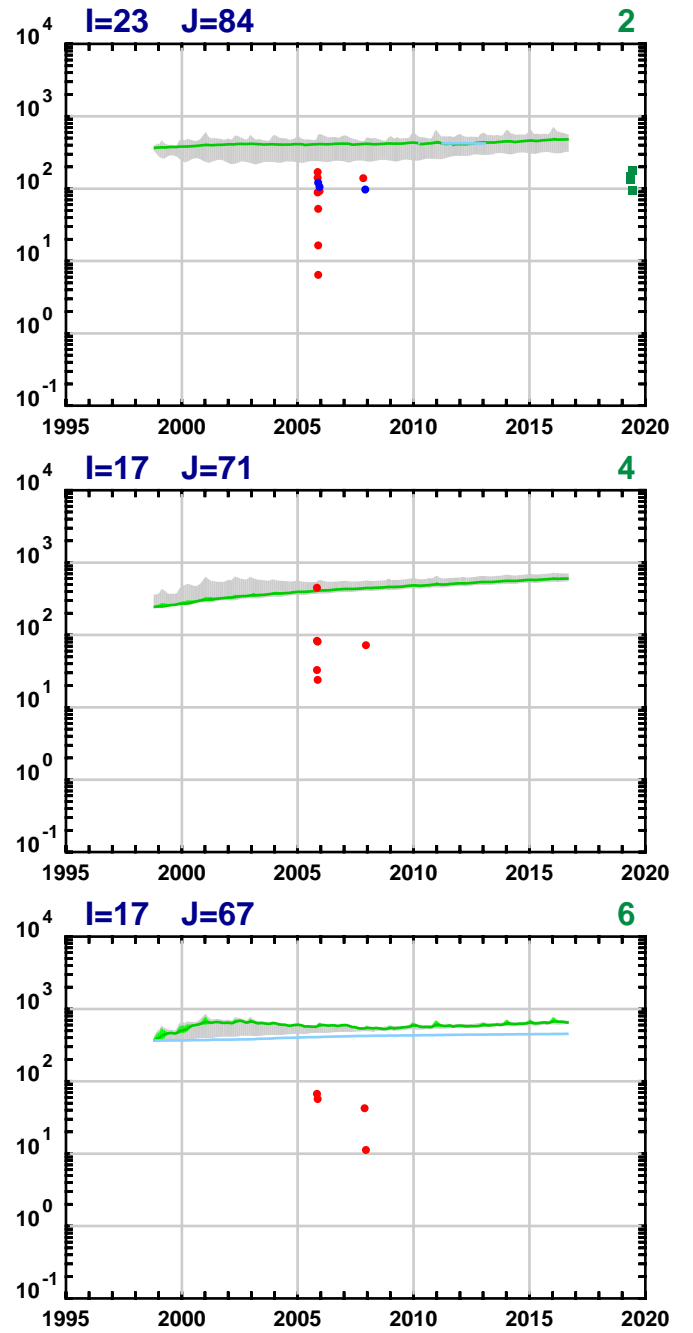
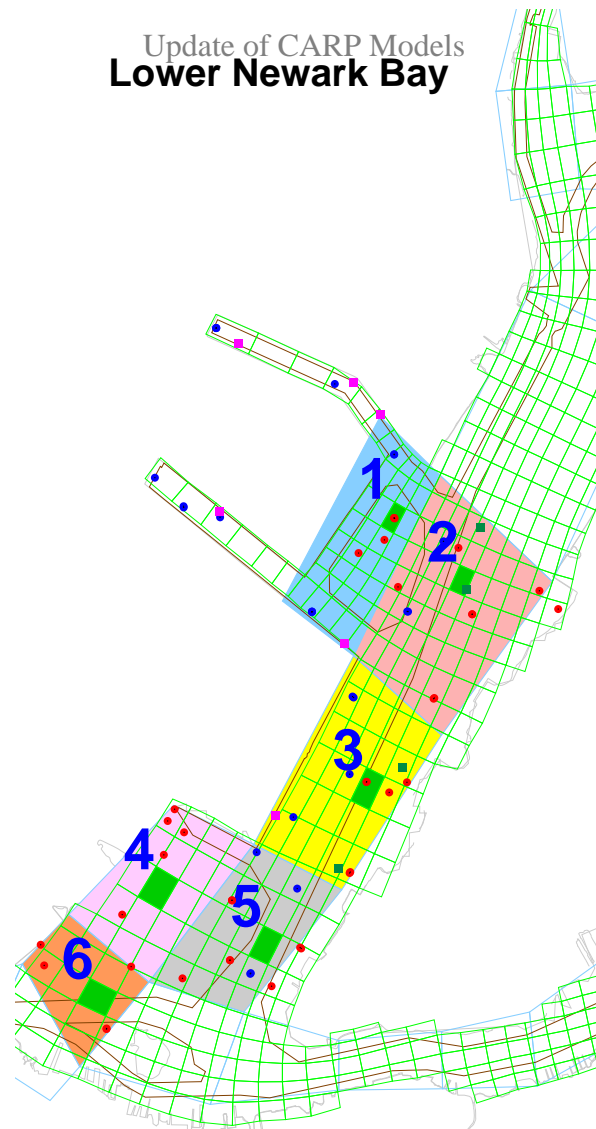
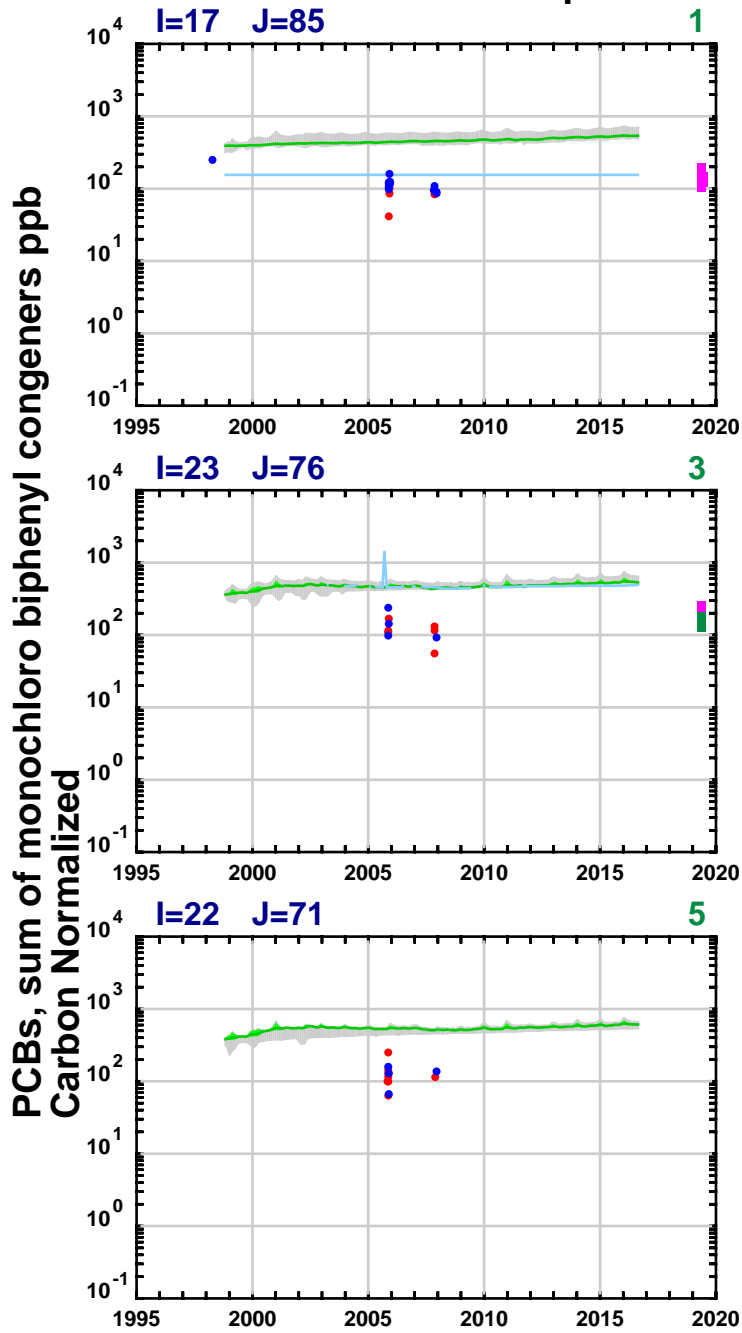
RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Lower Newark Bay

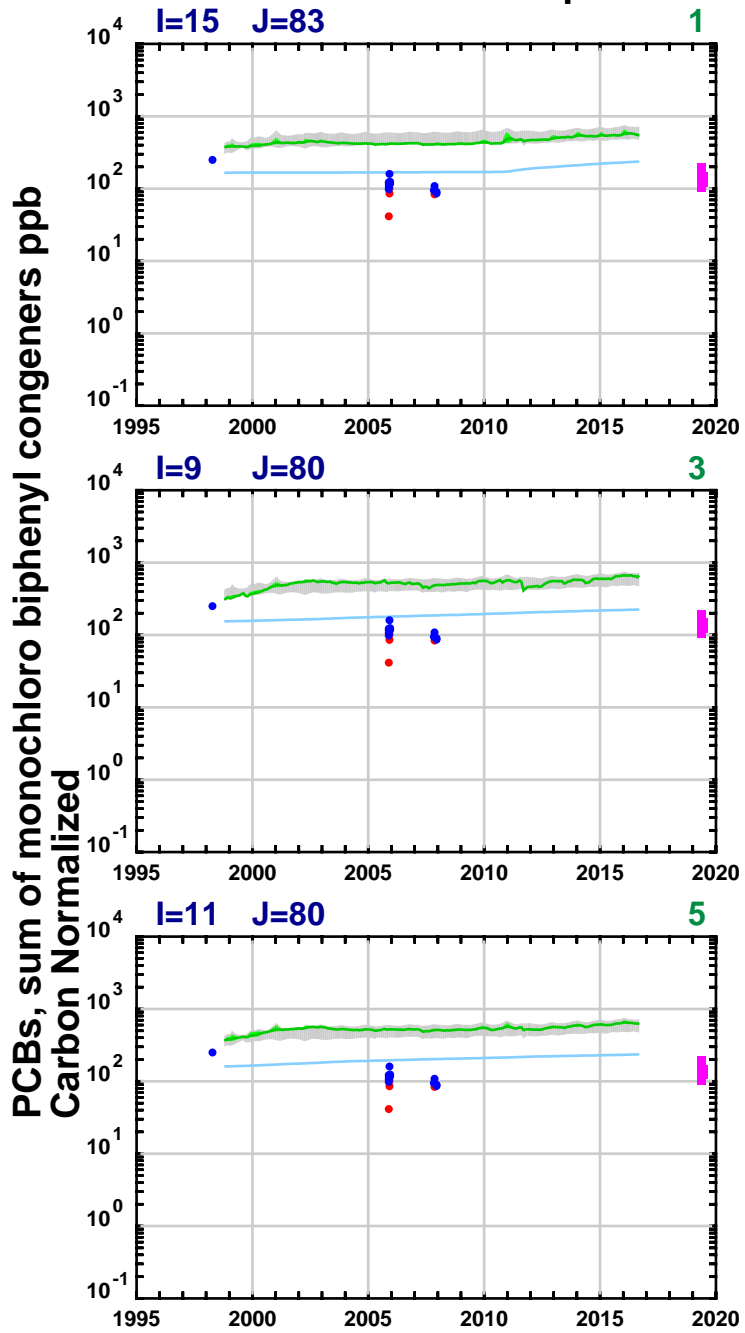


RUN18\_S2

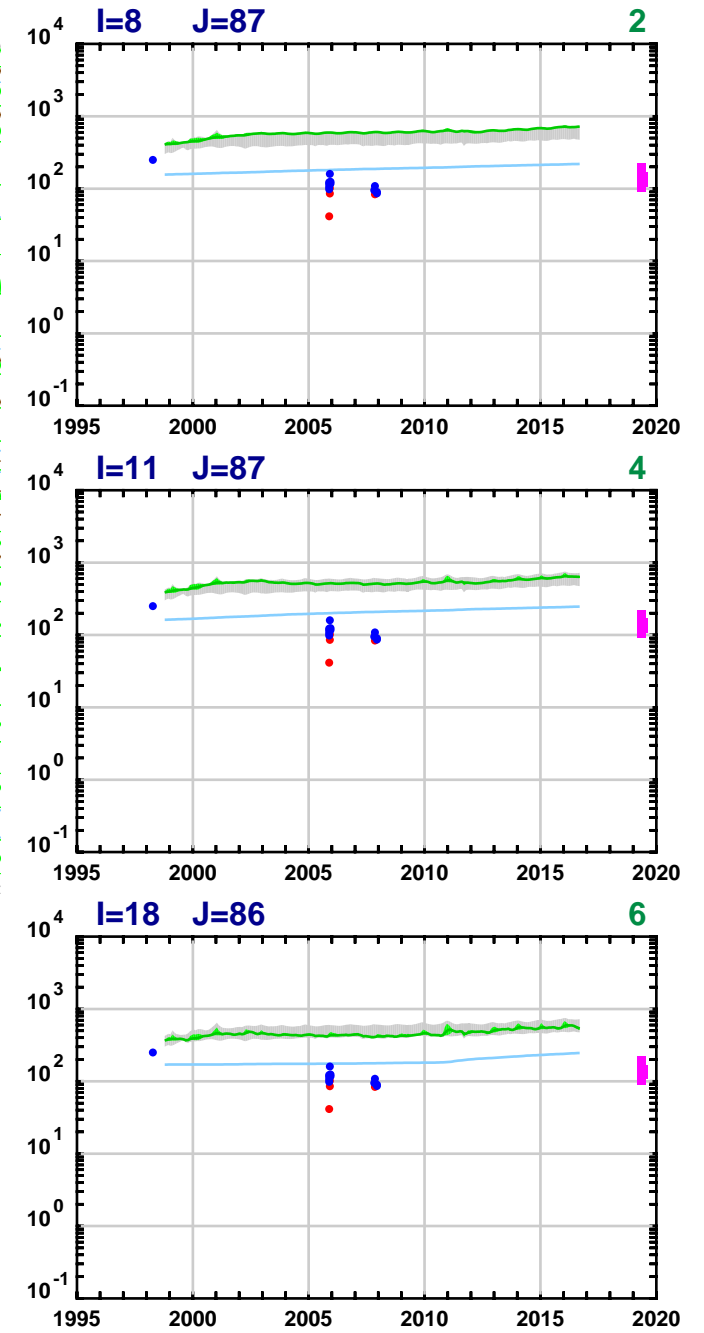
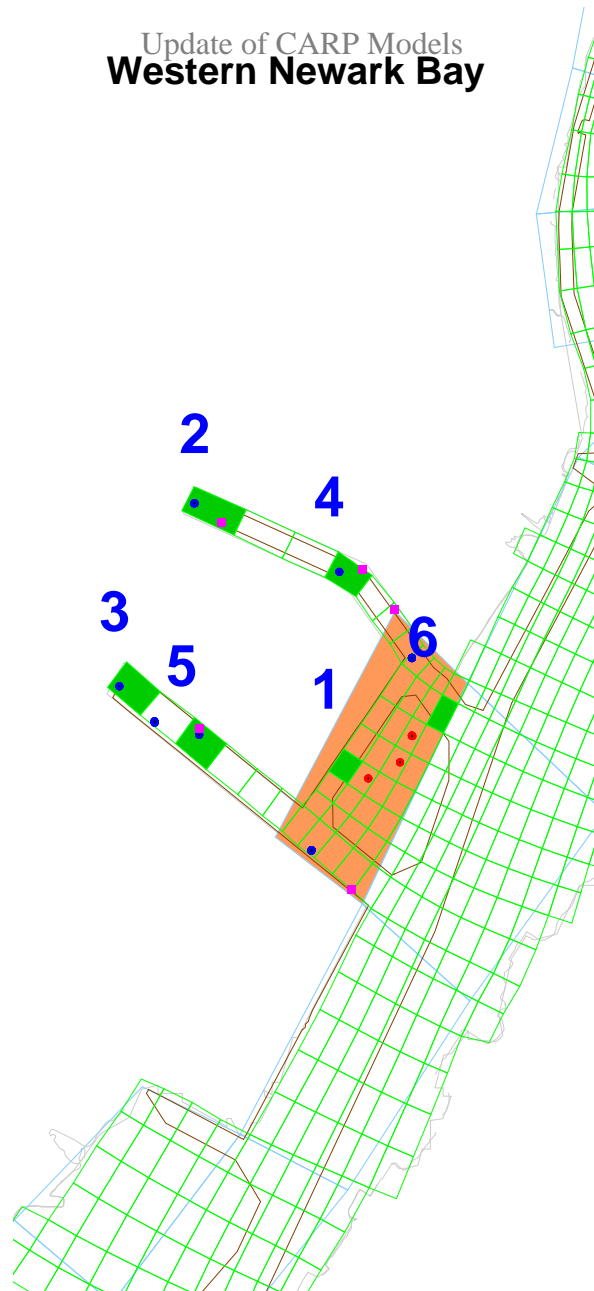
Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



## Update of CARP Models Western Newark Bay



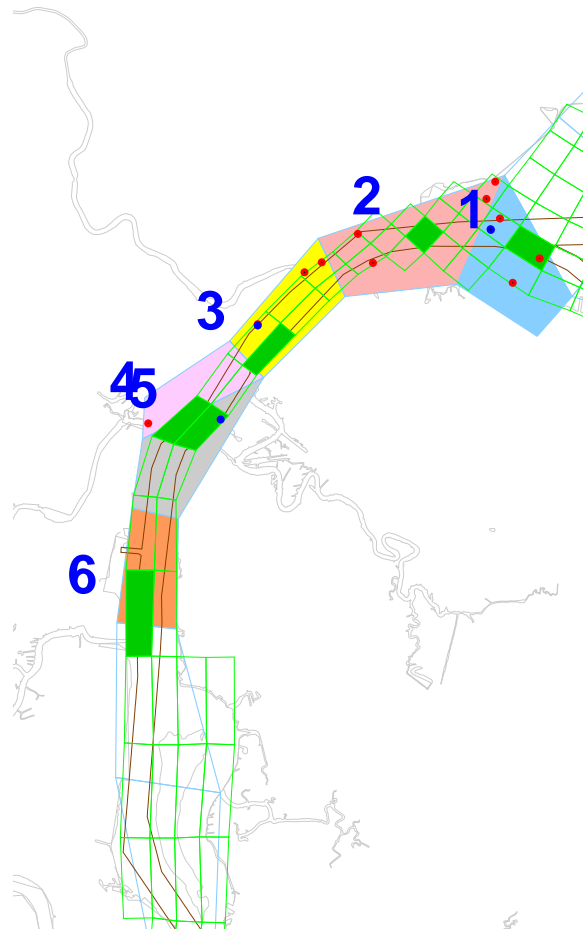
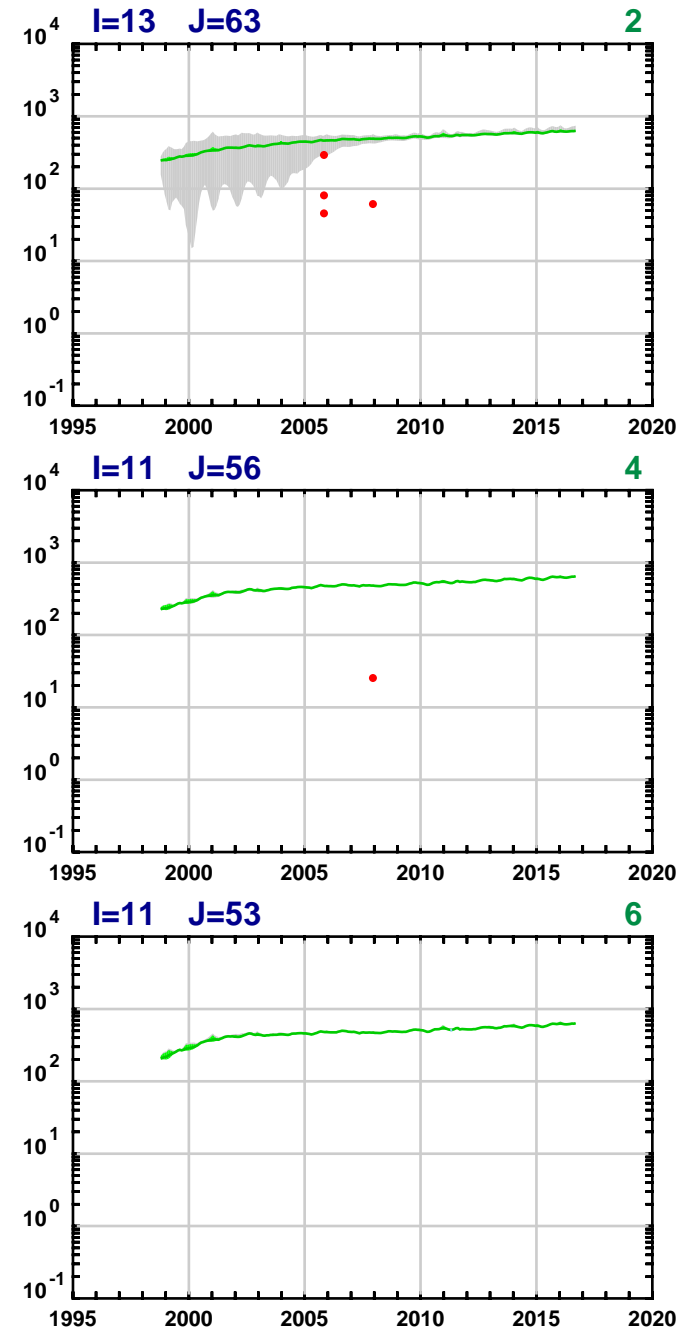
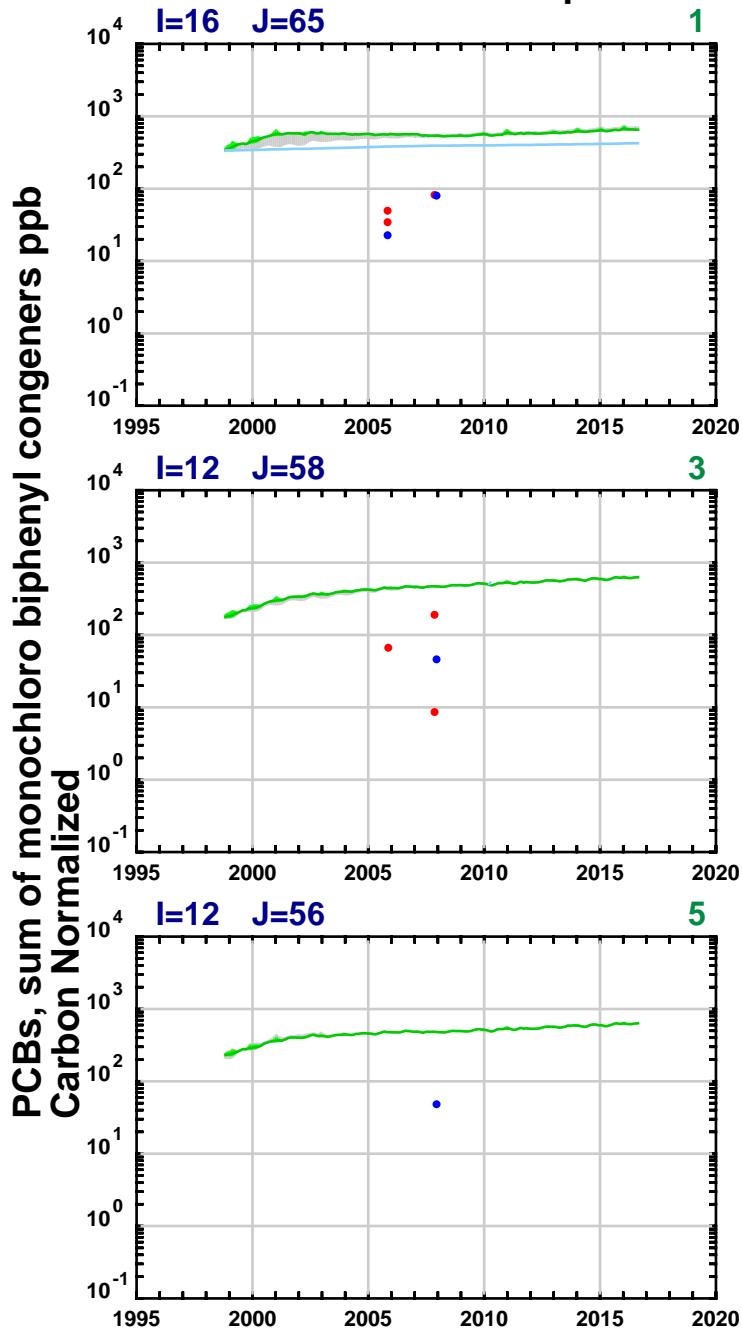
RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

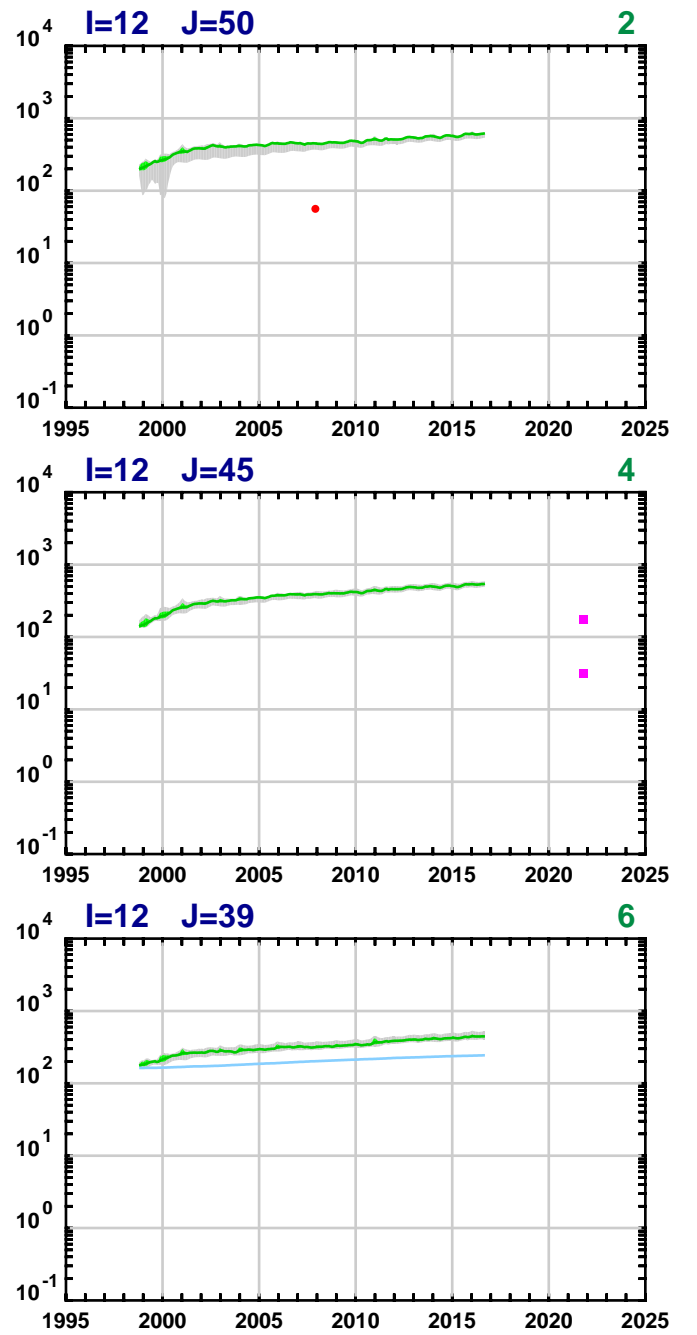
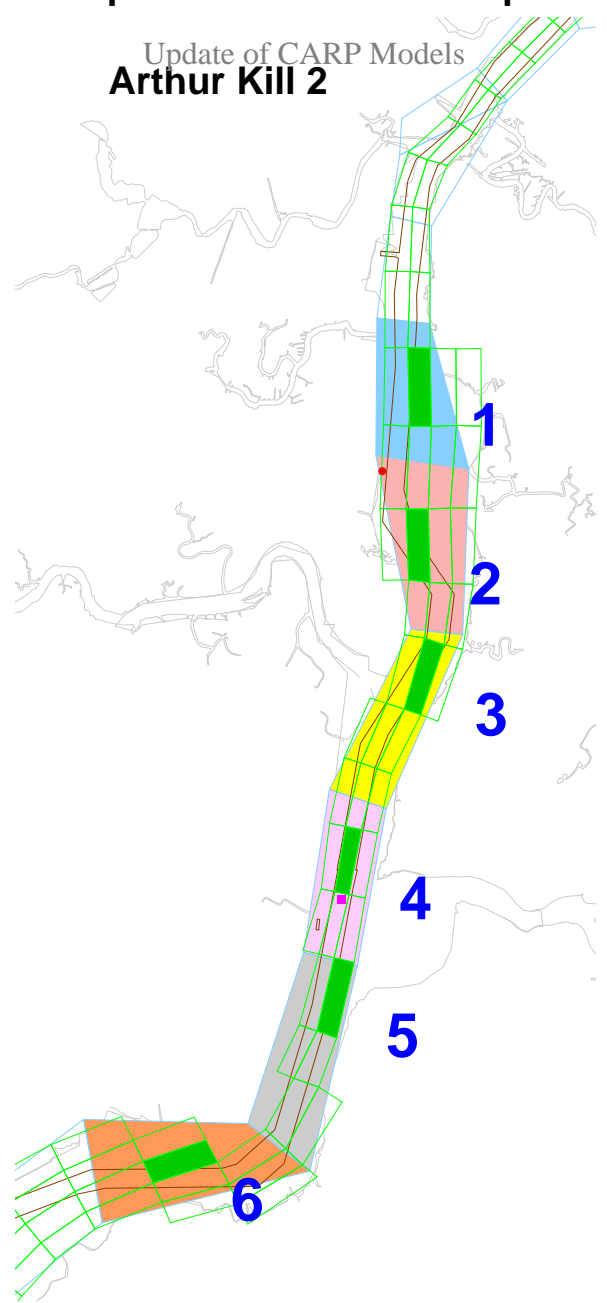
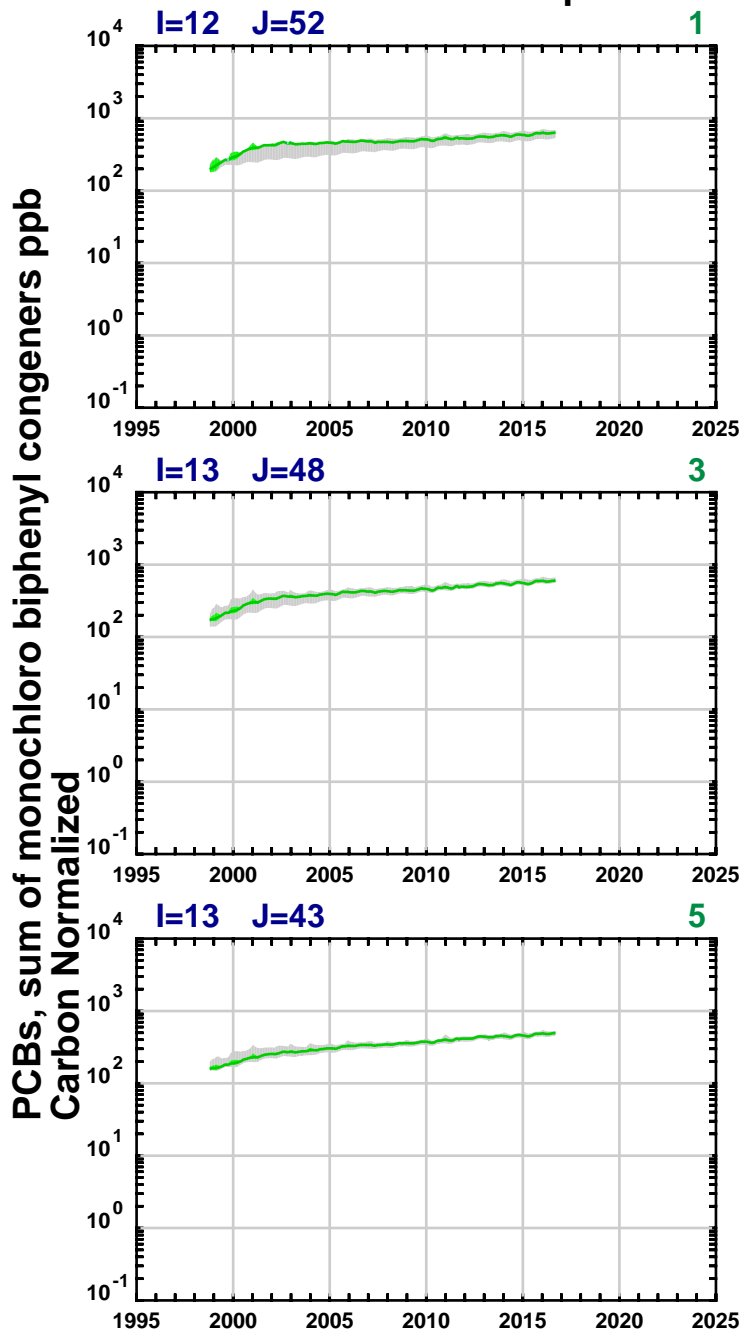


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

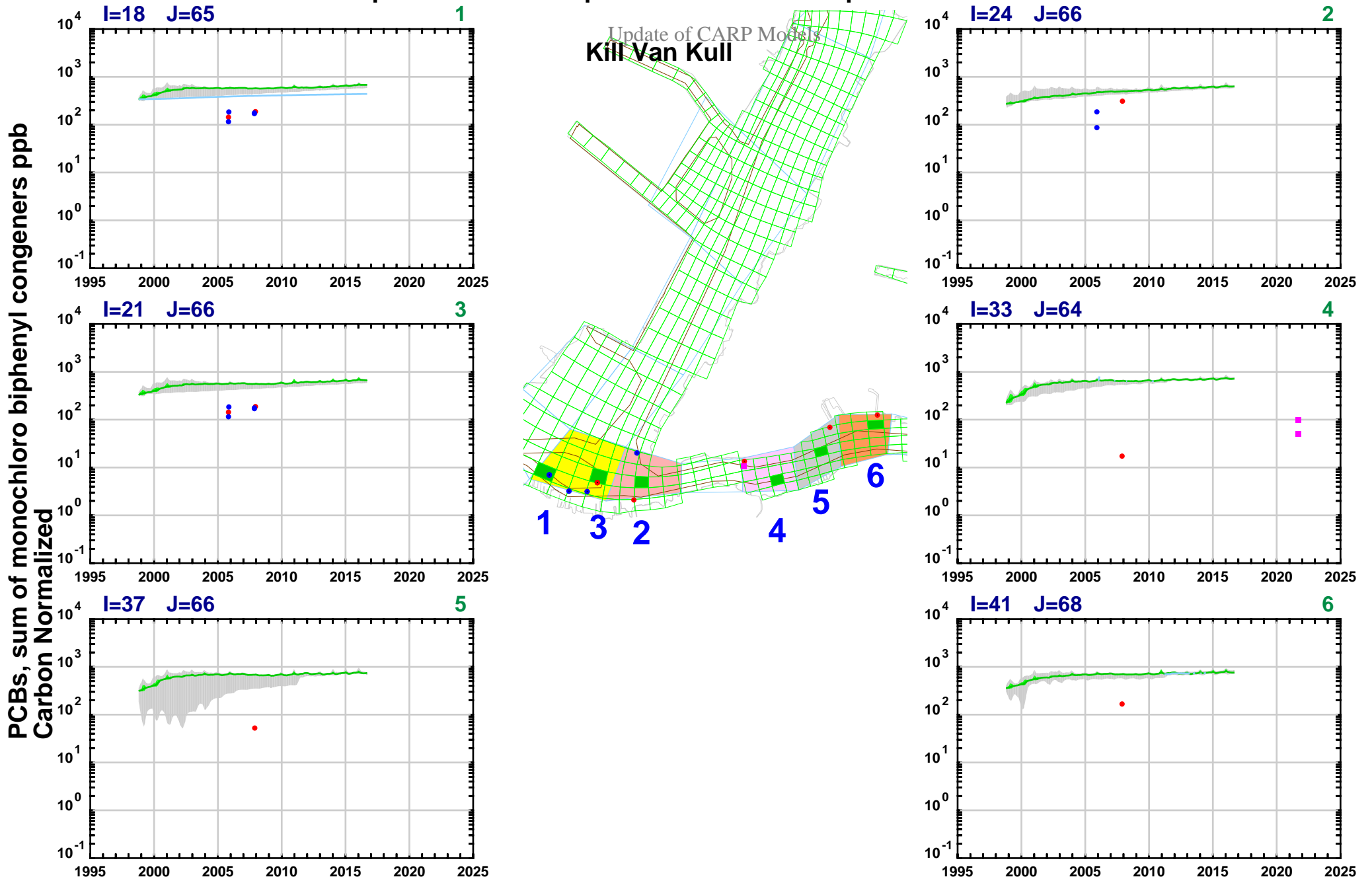


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

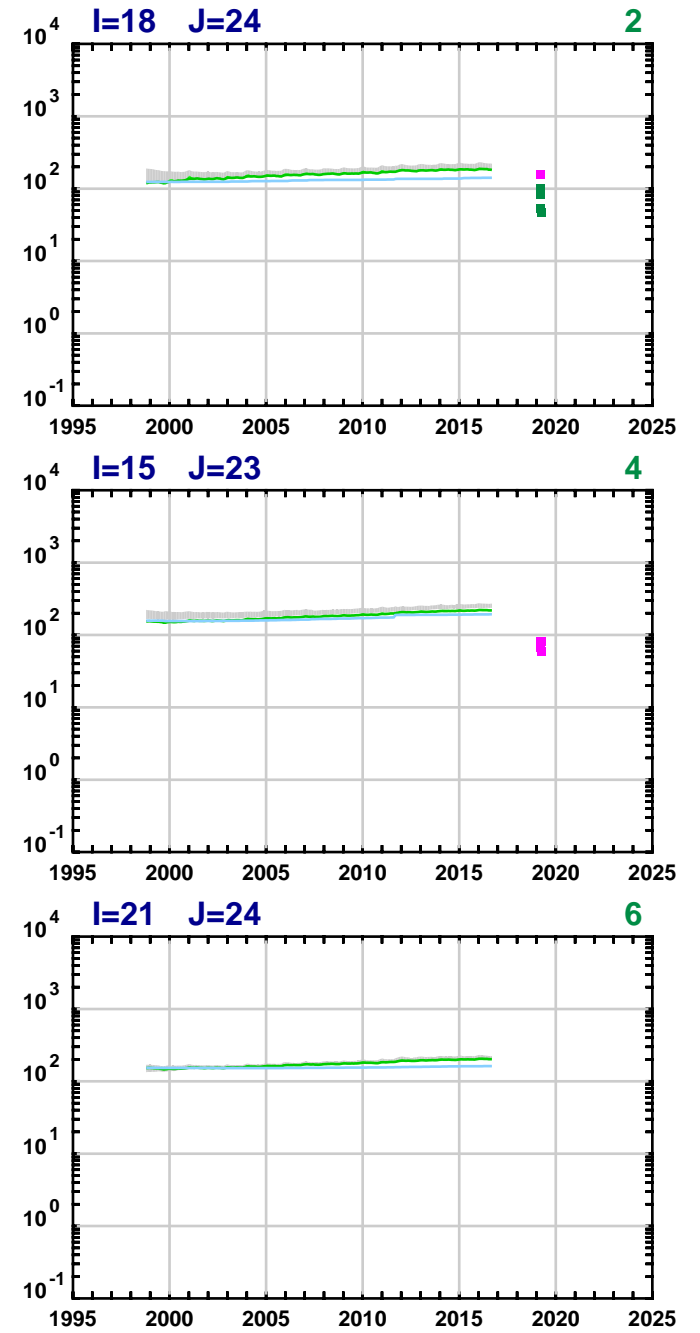
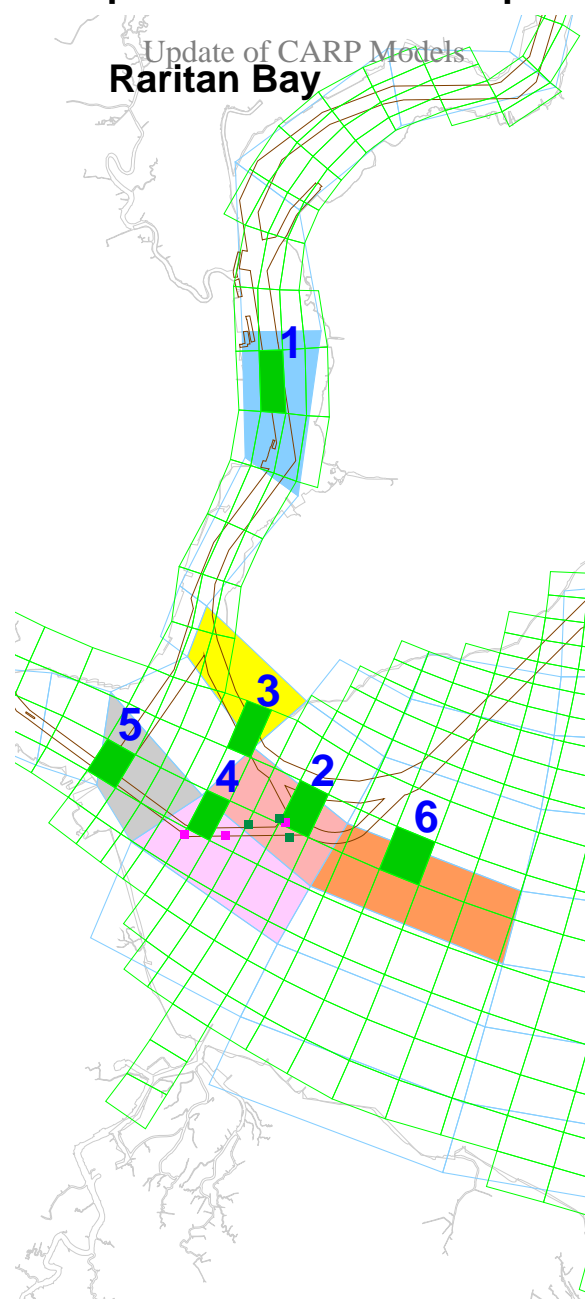
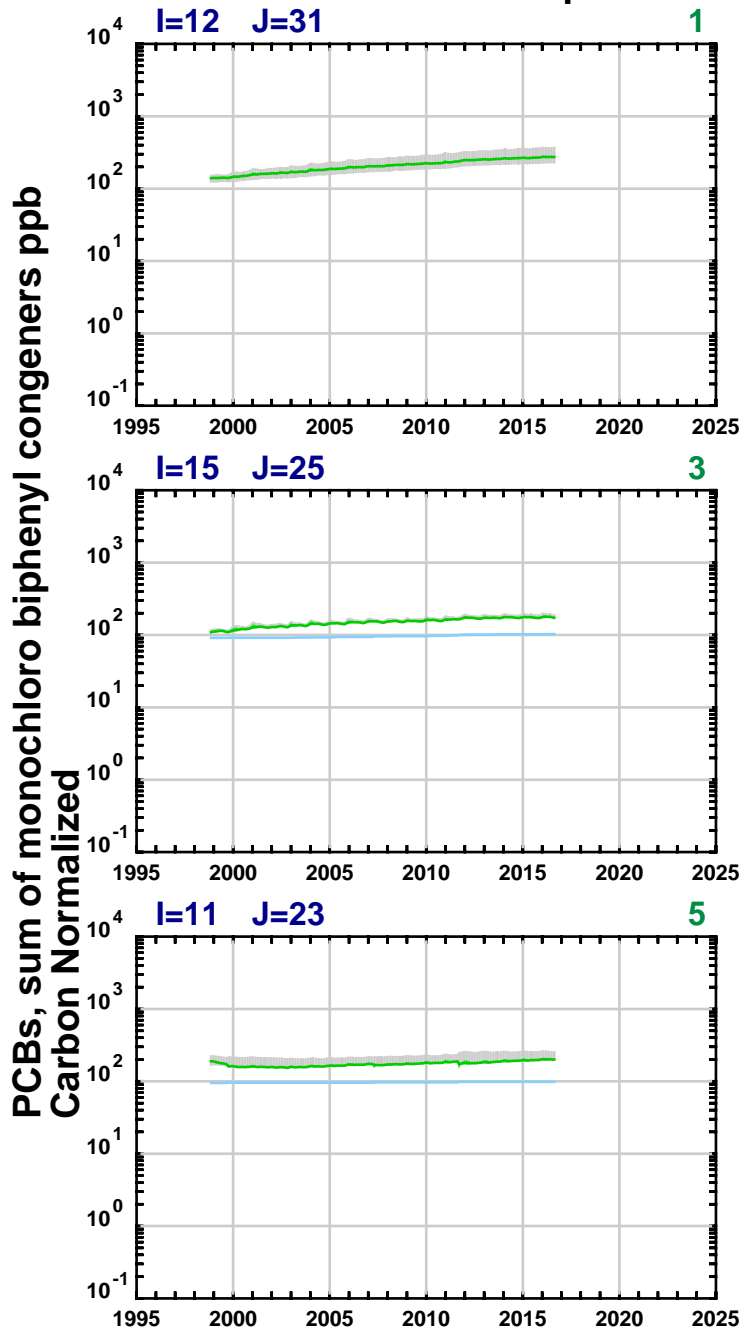


**RUN18\_S2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



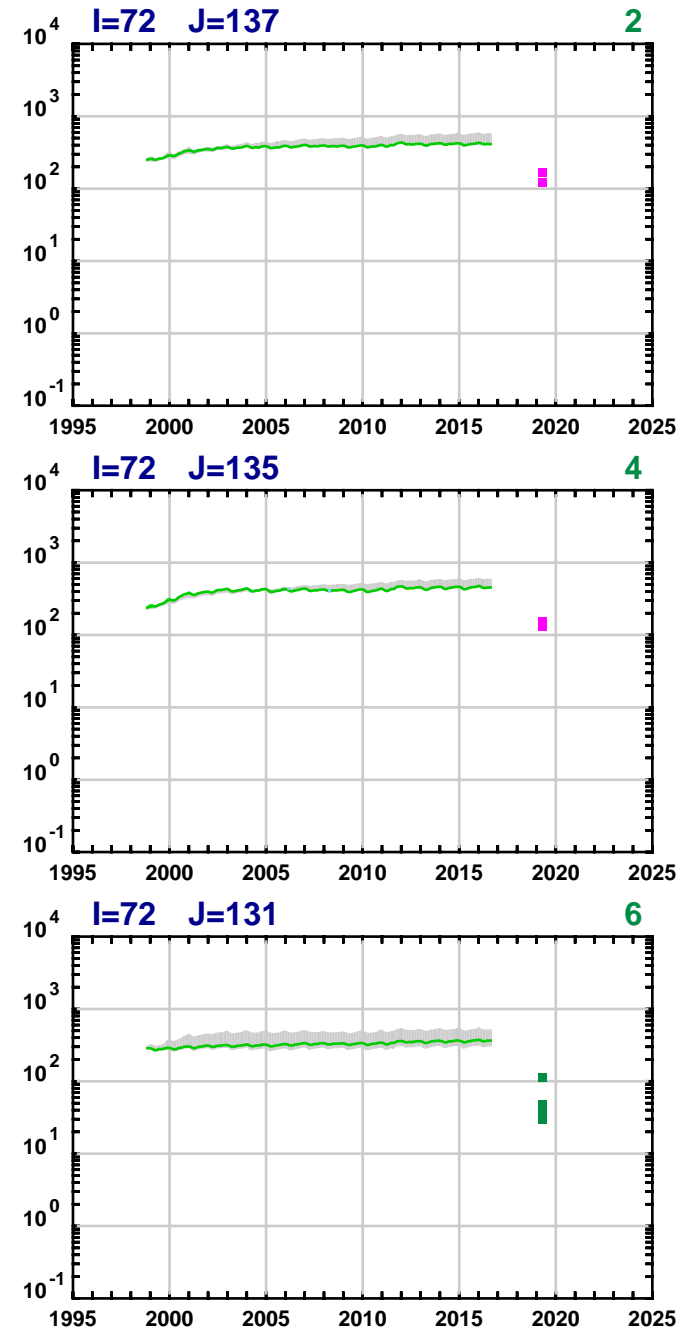
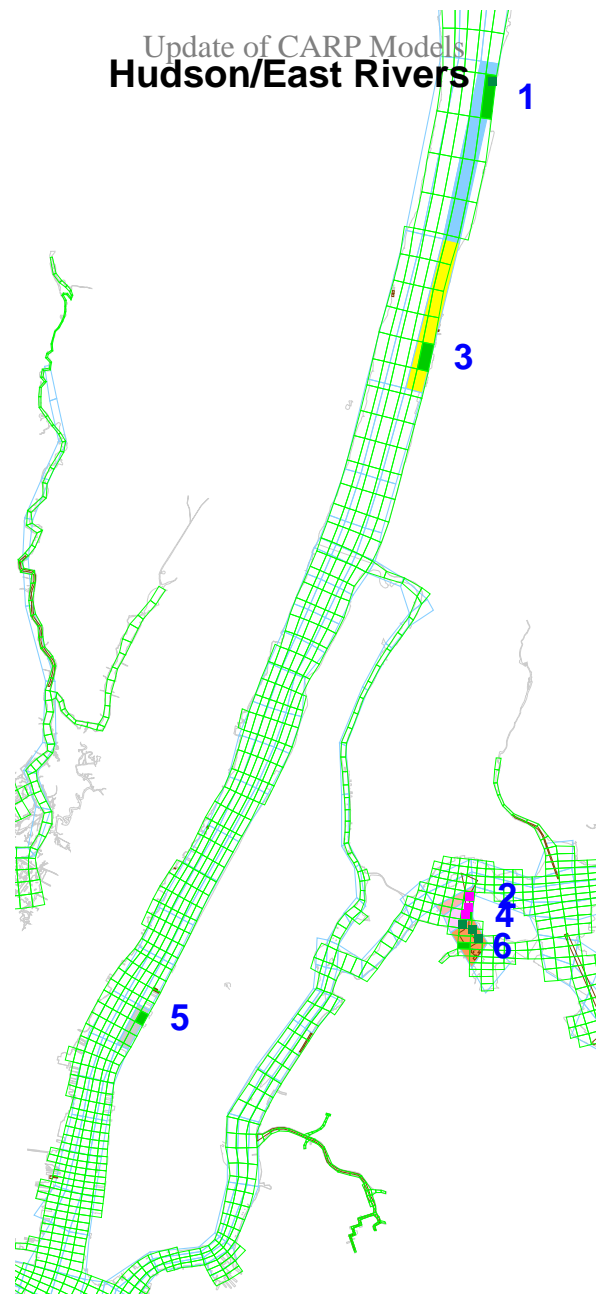
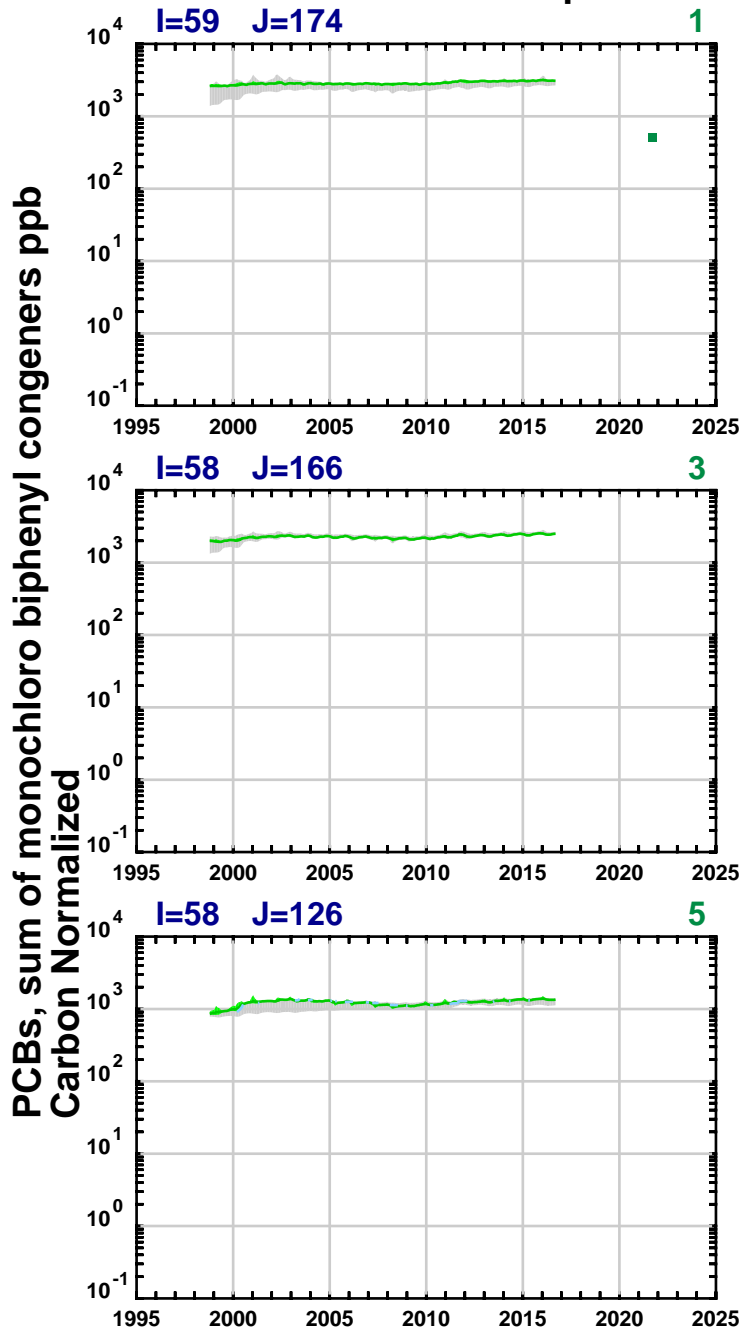
RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

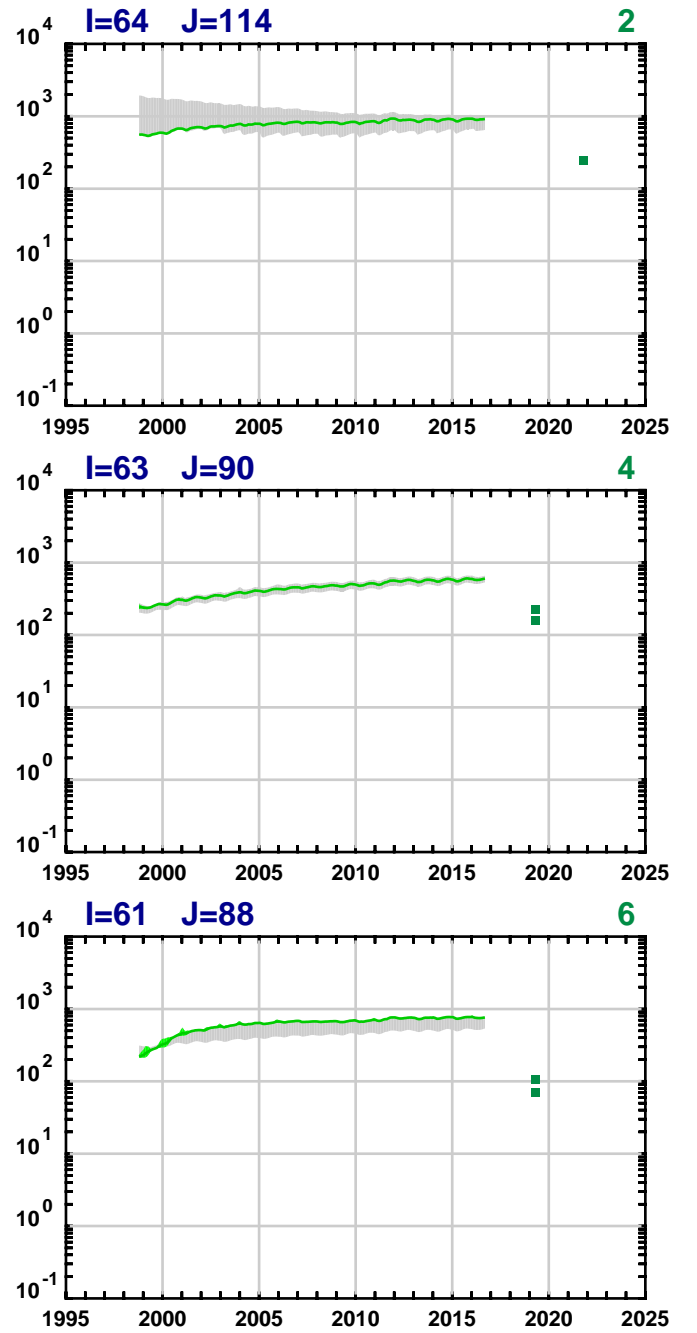
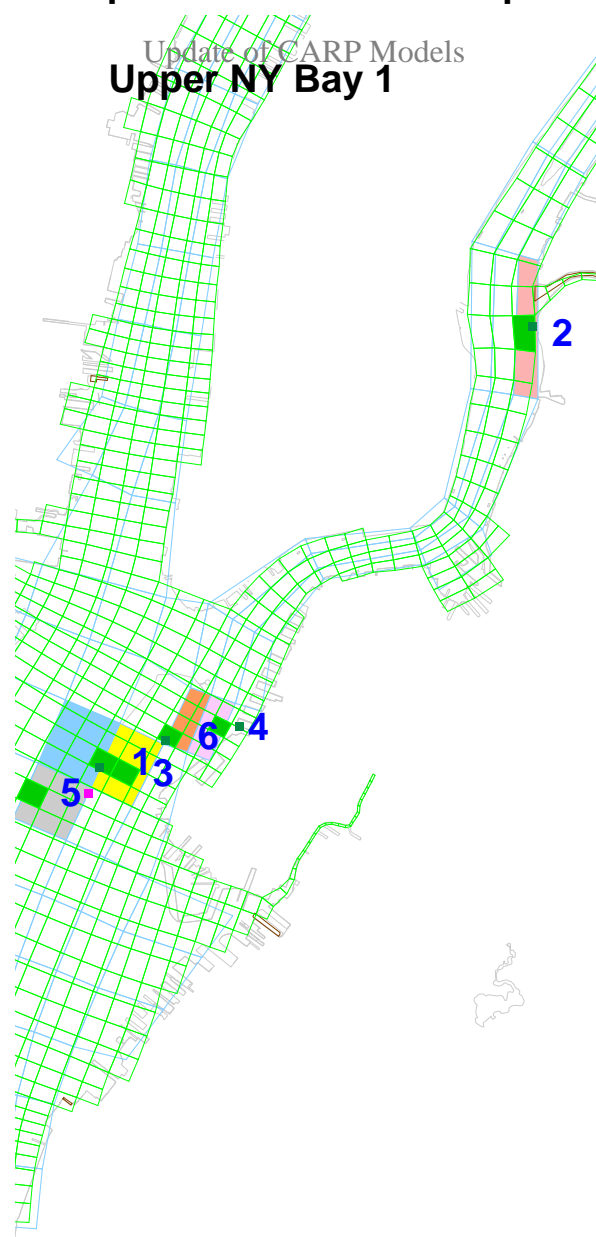
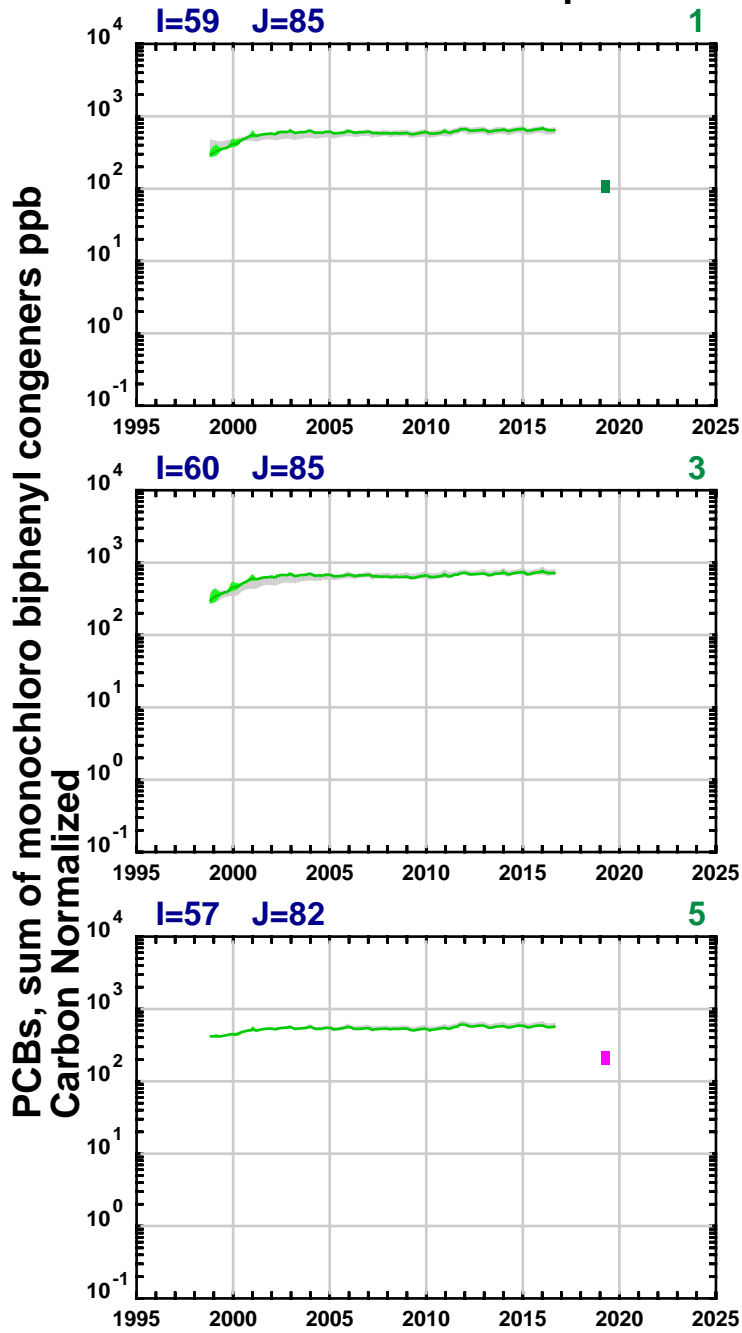


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

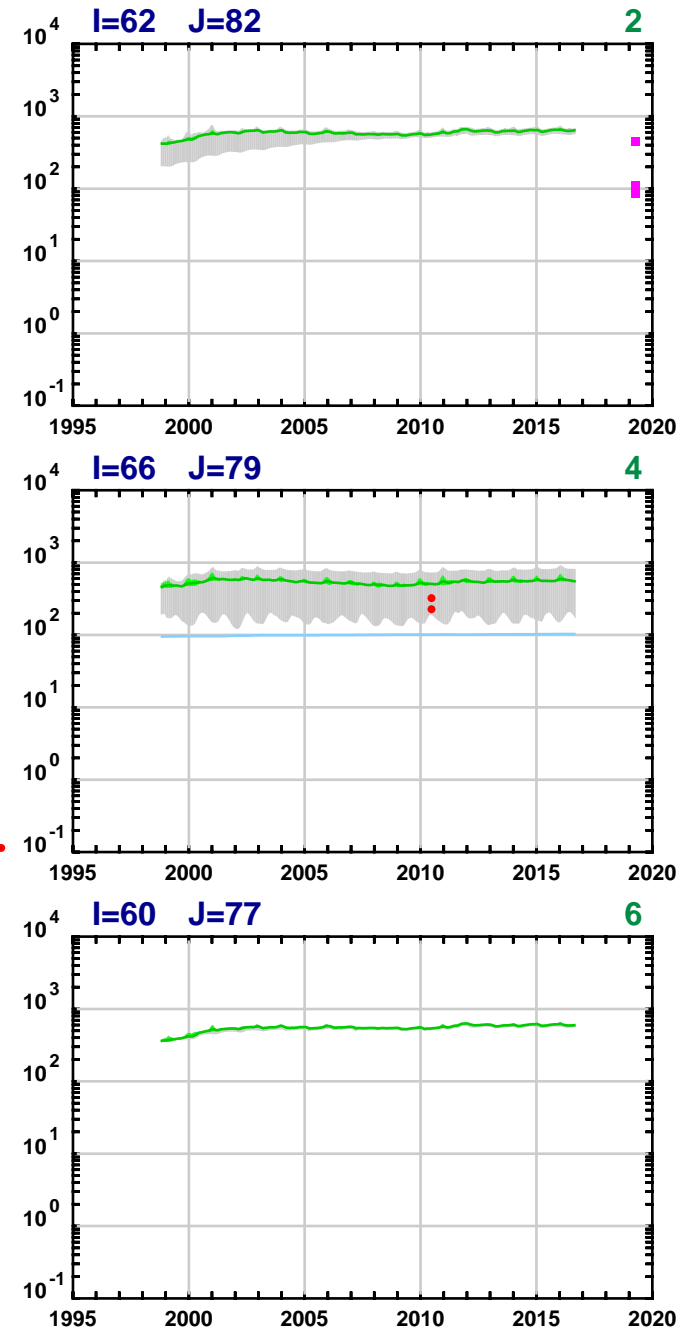
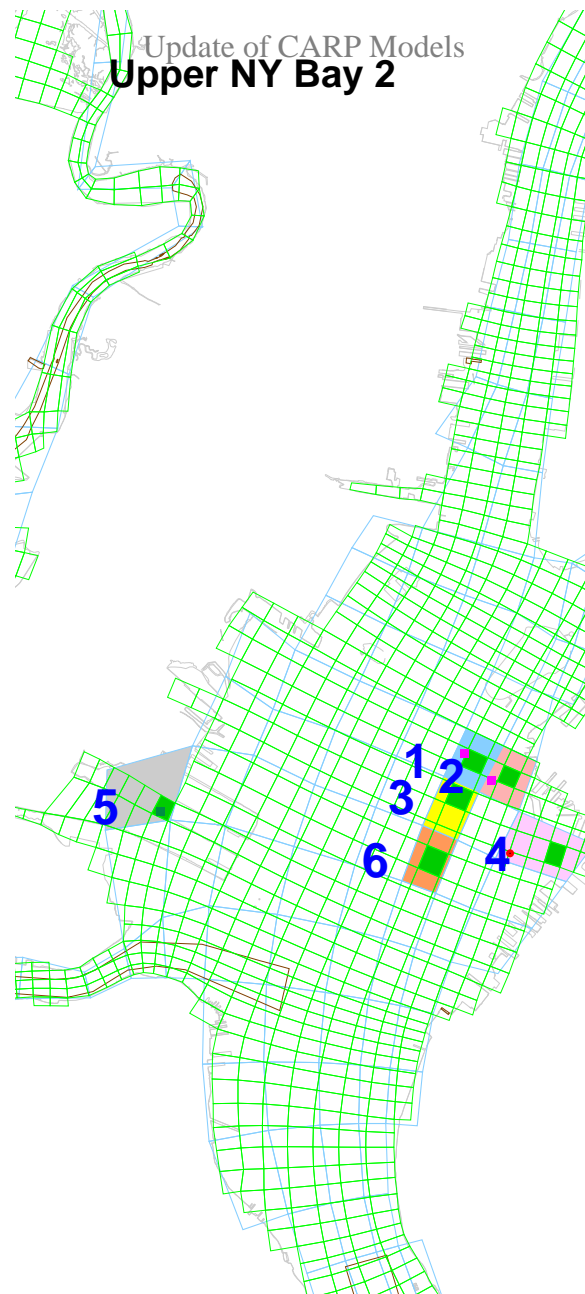
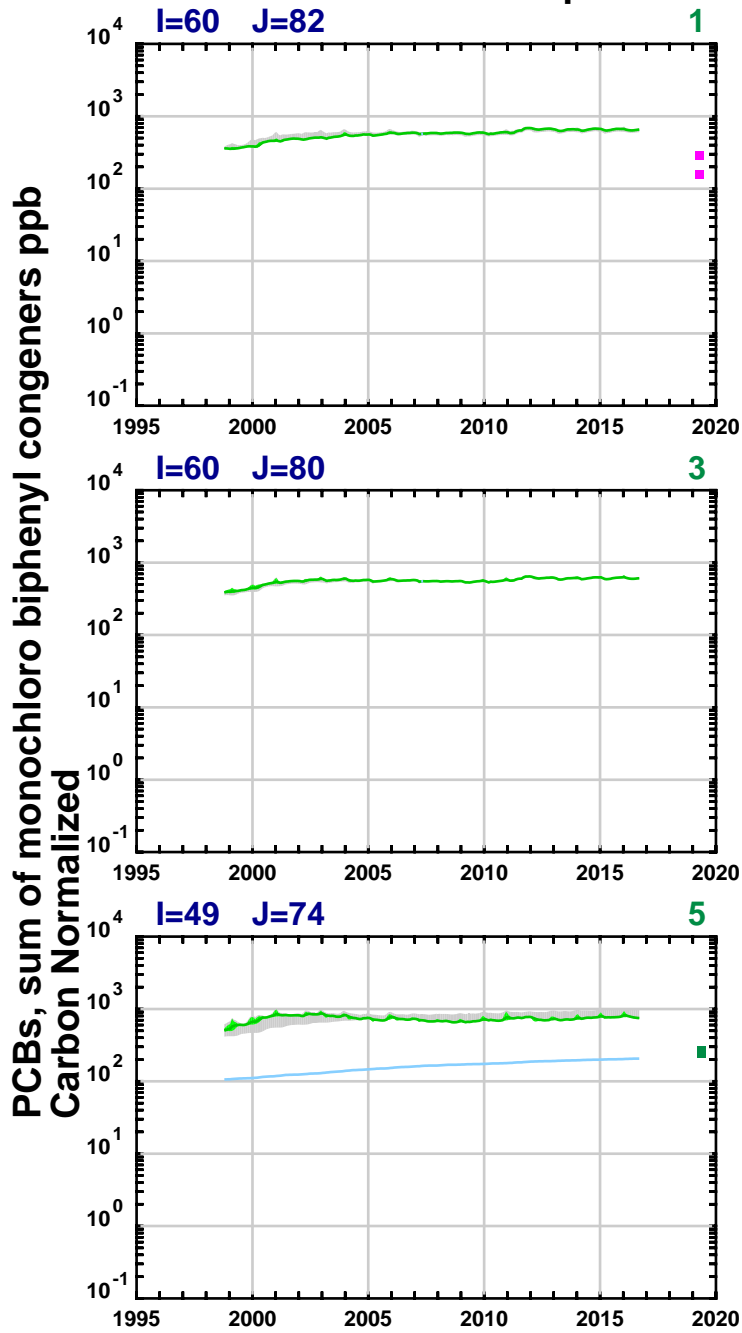


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

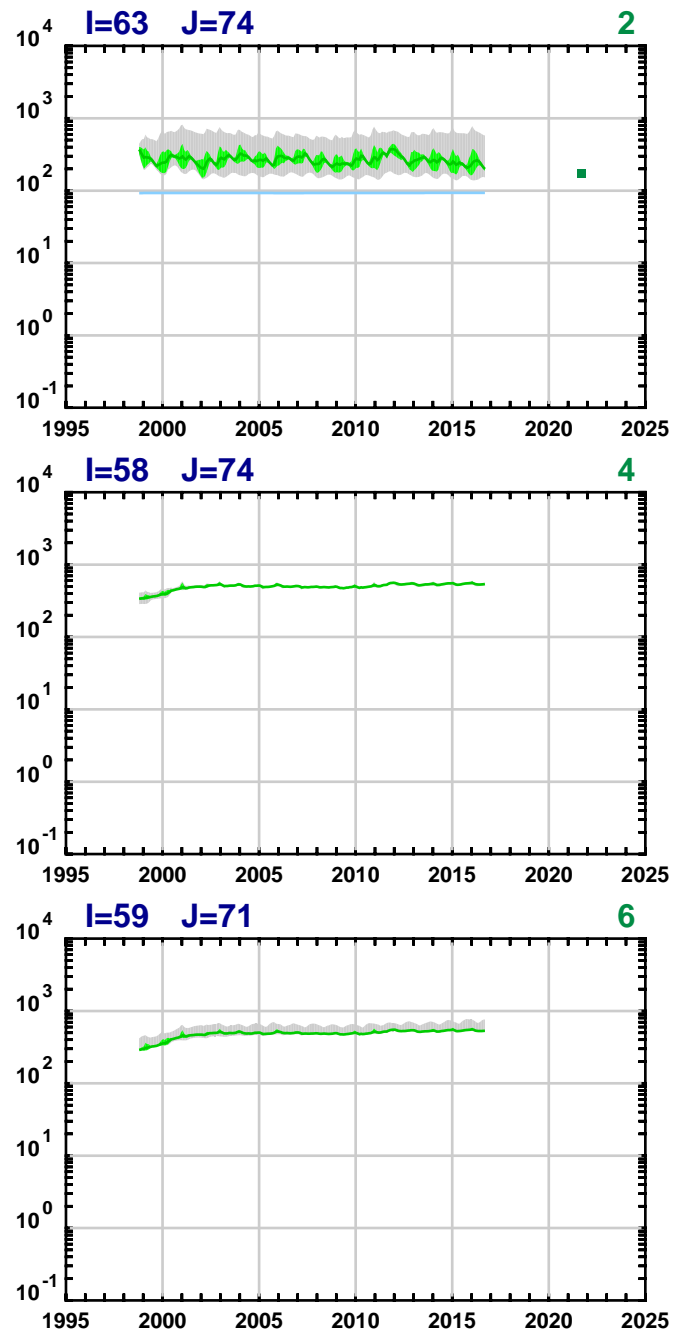
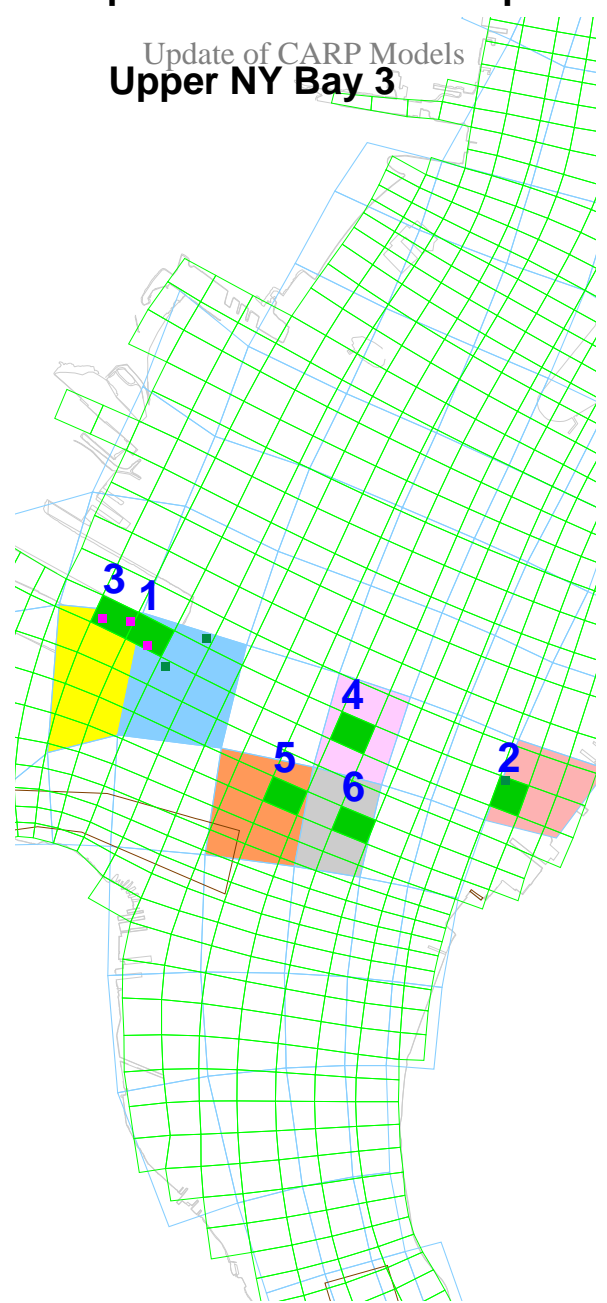
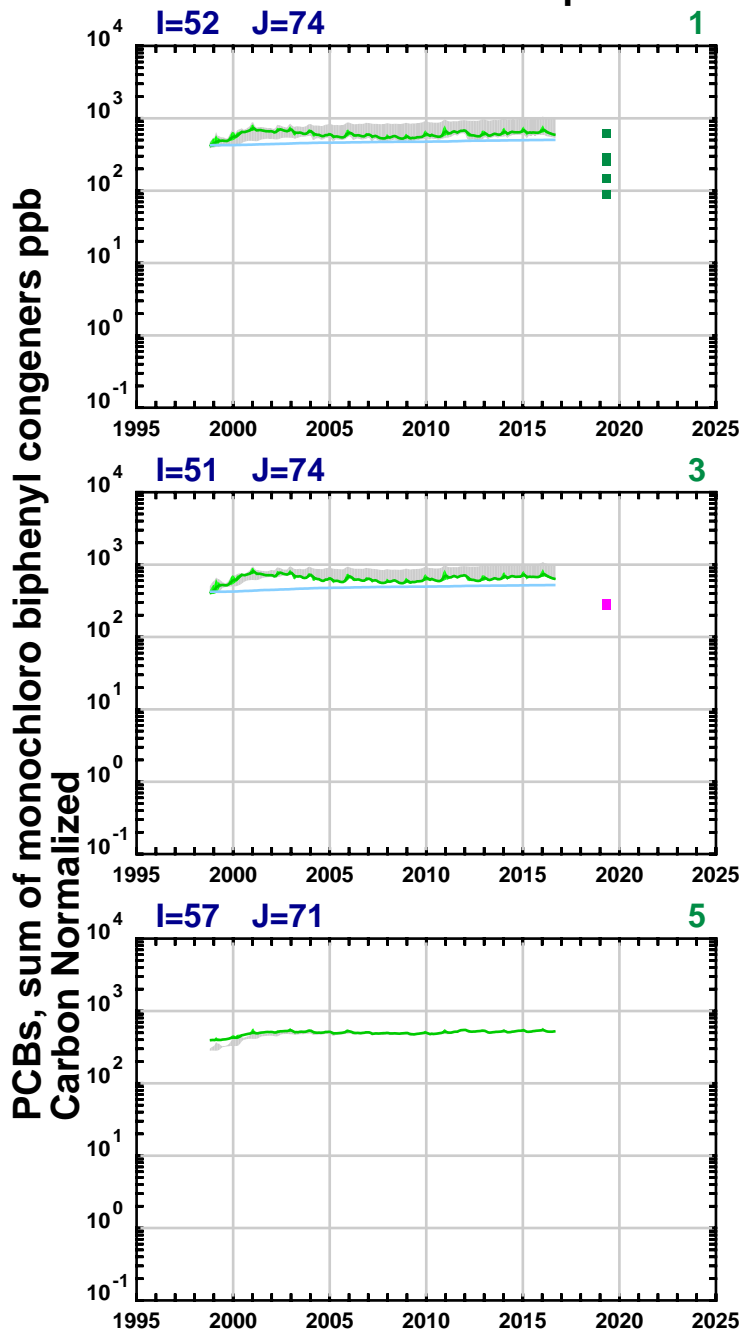


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

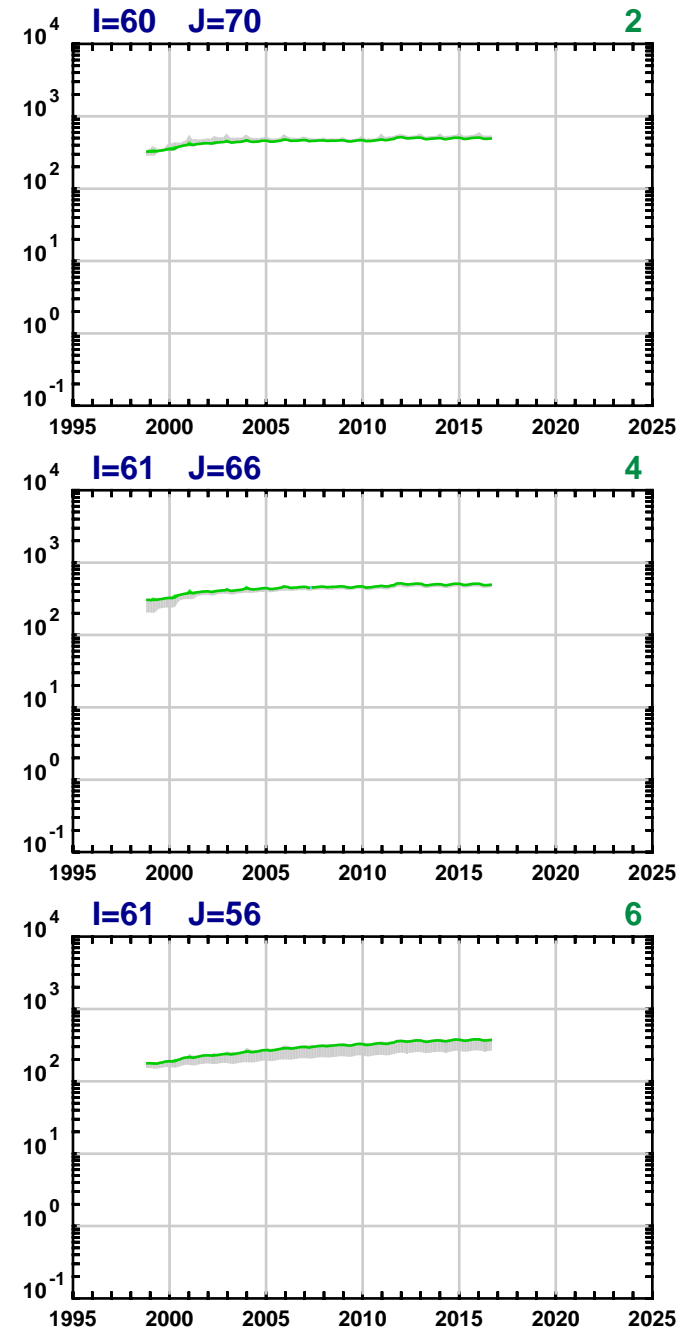
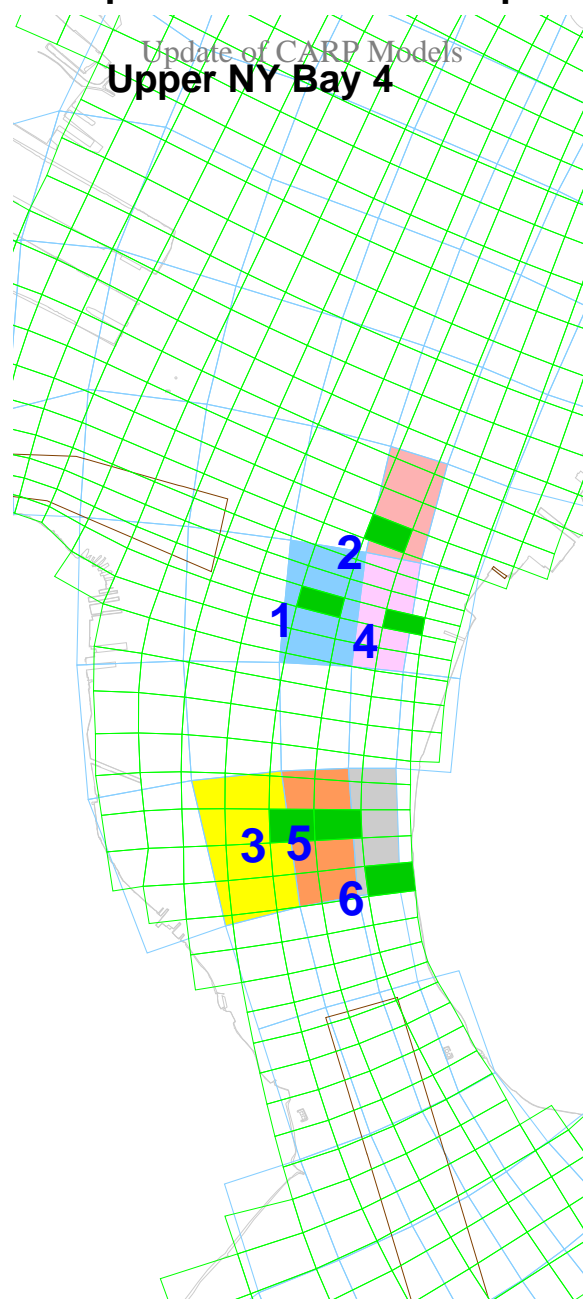
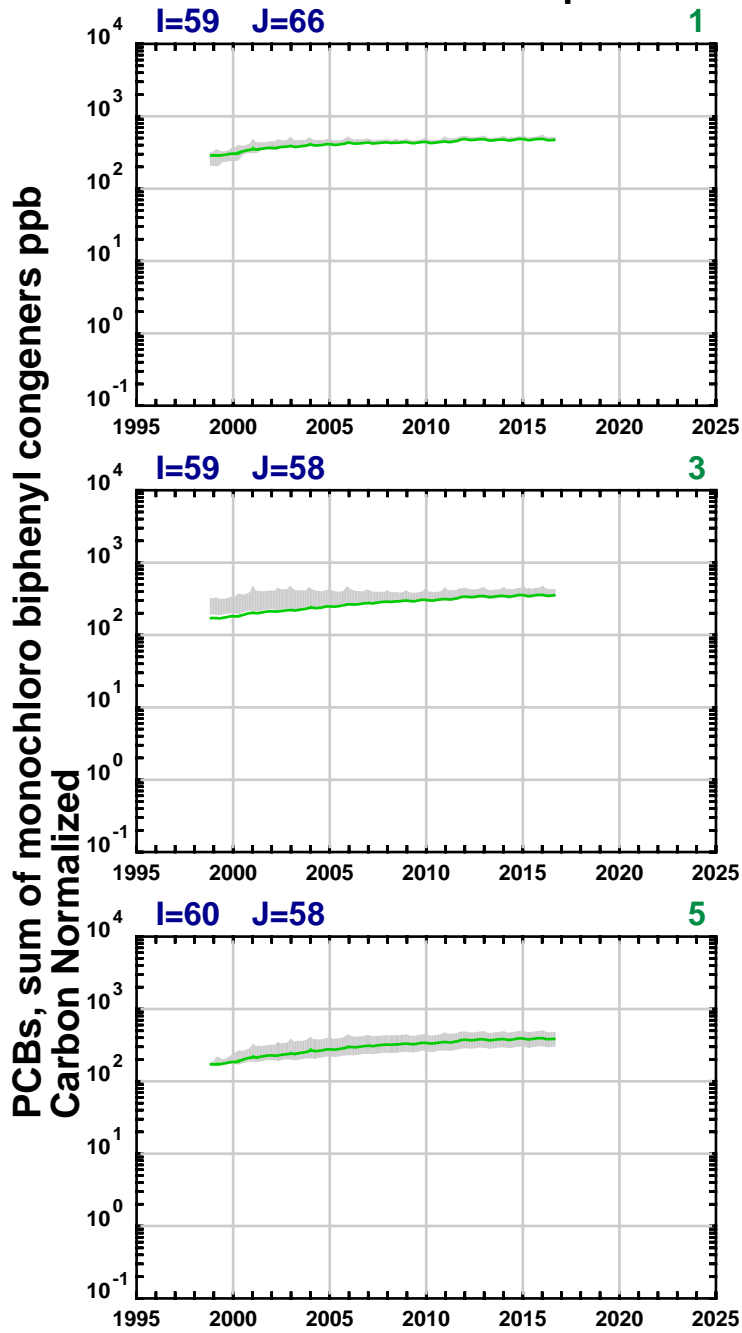


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

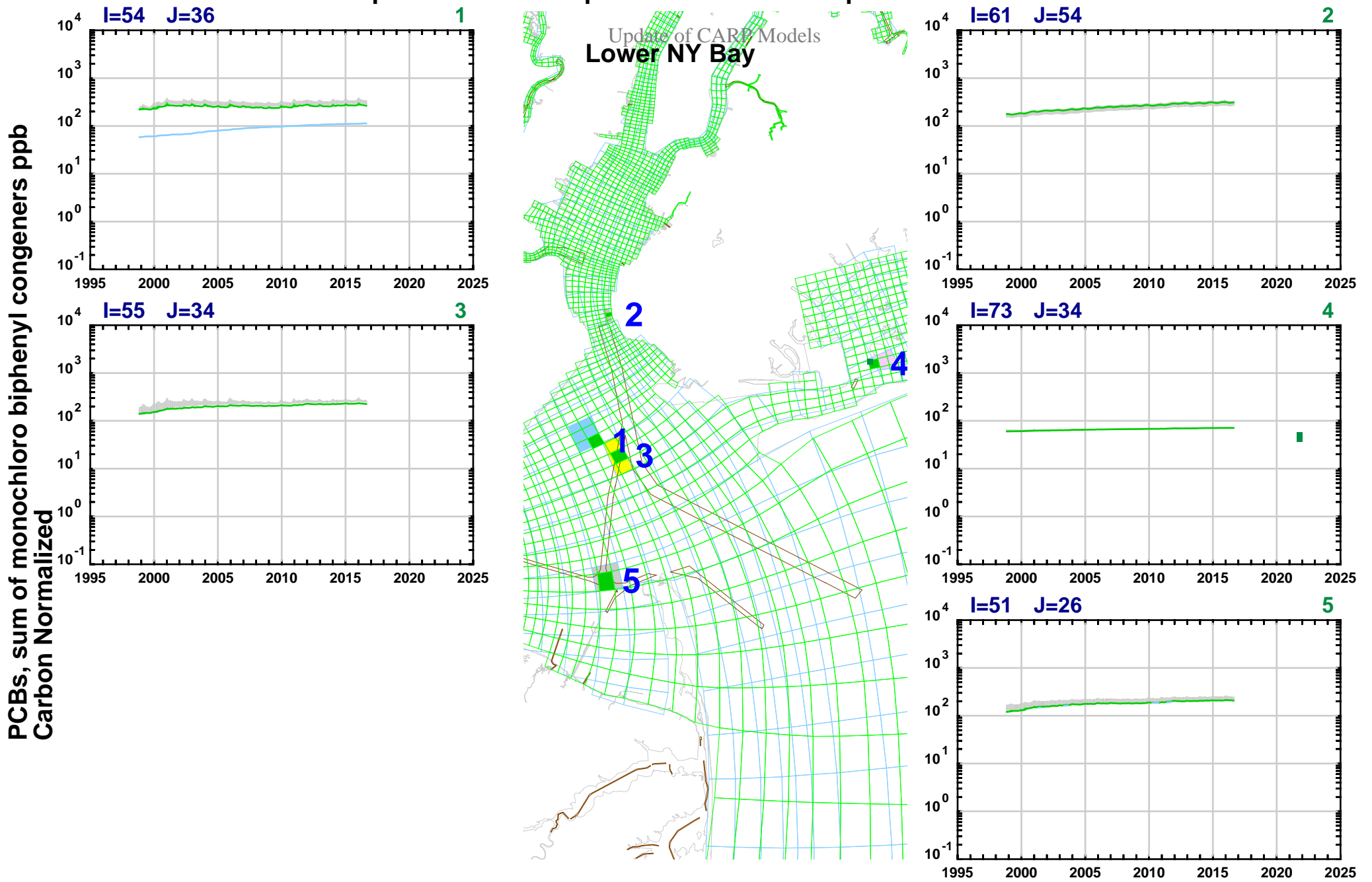


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



RUN18\_S2

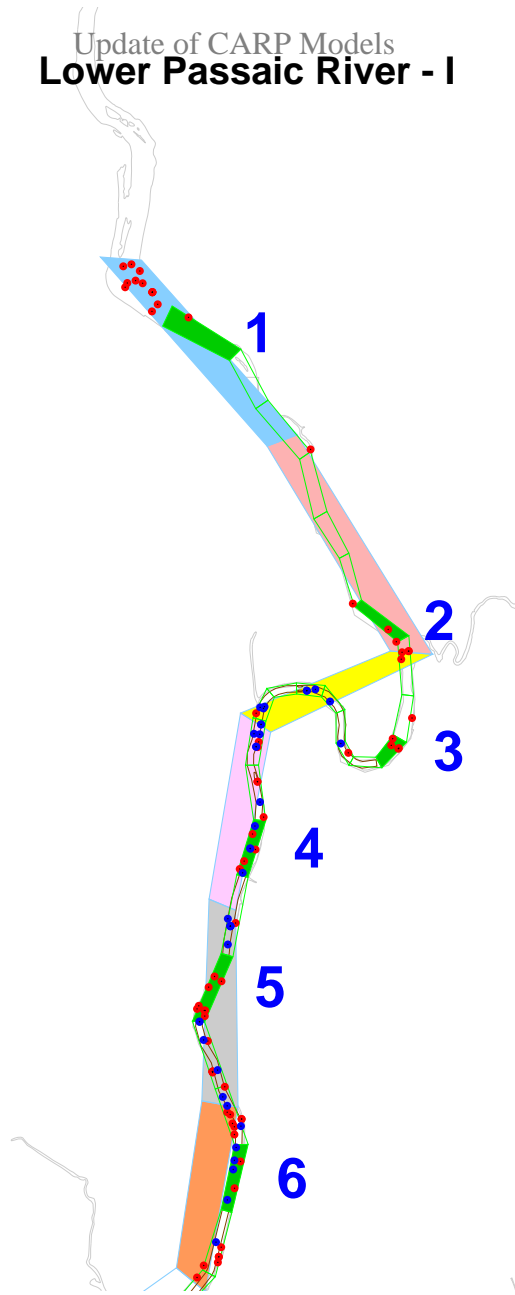
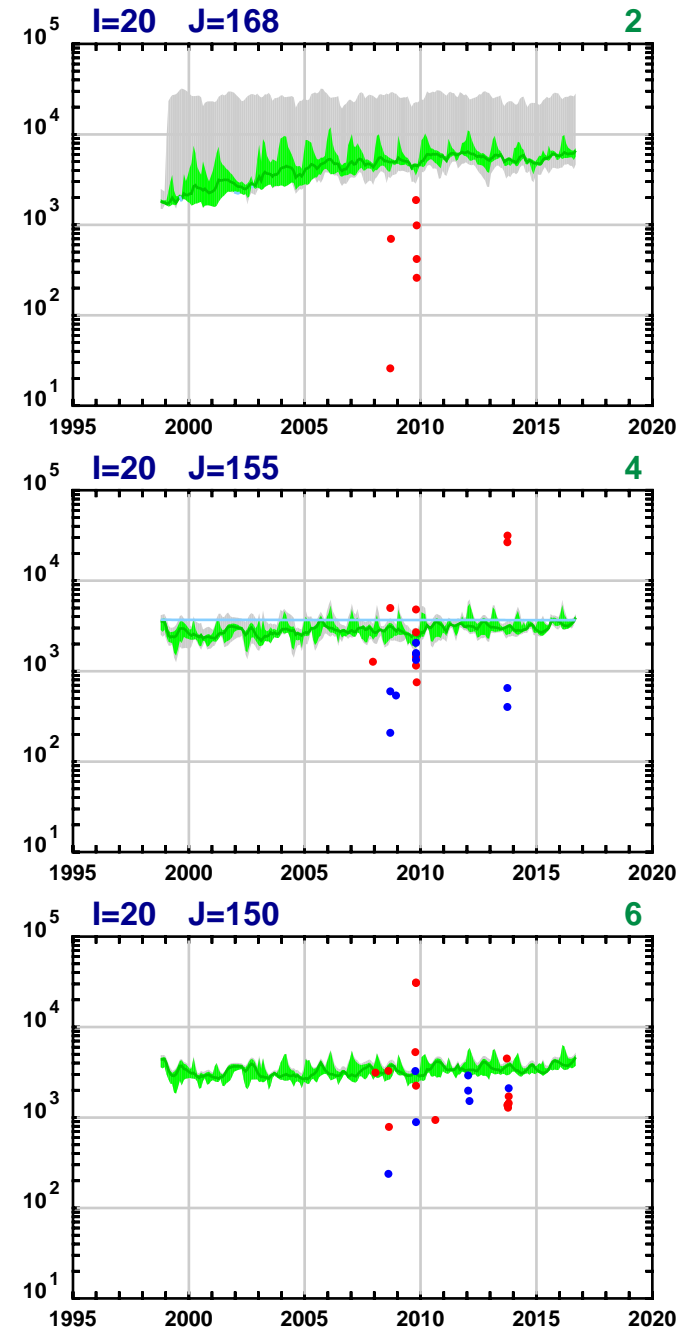
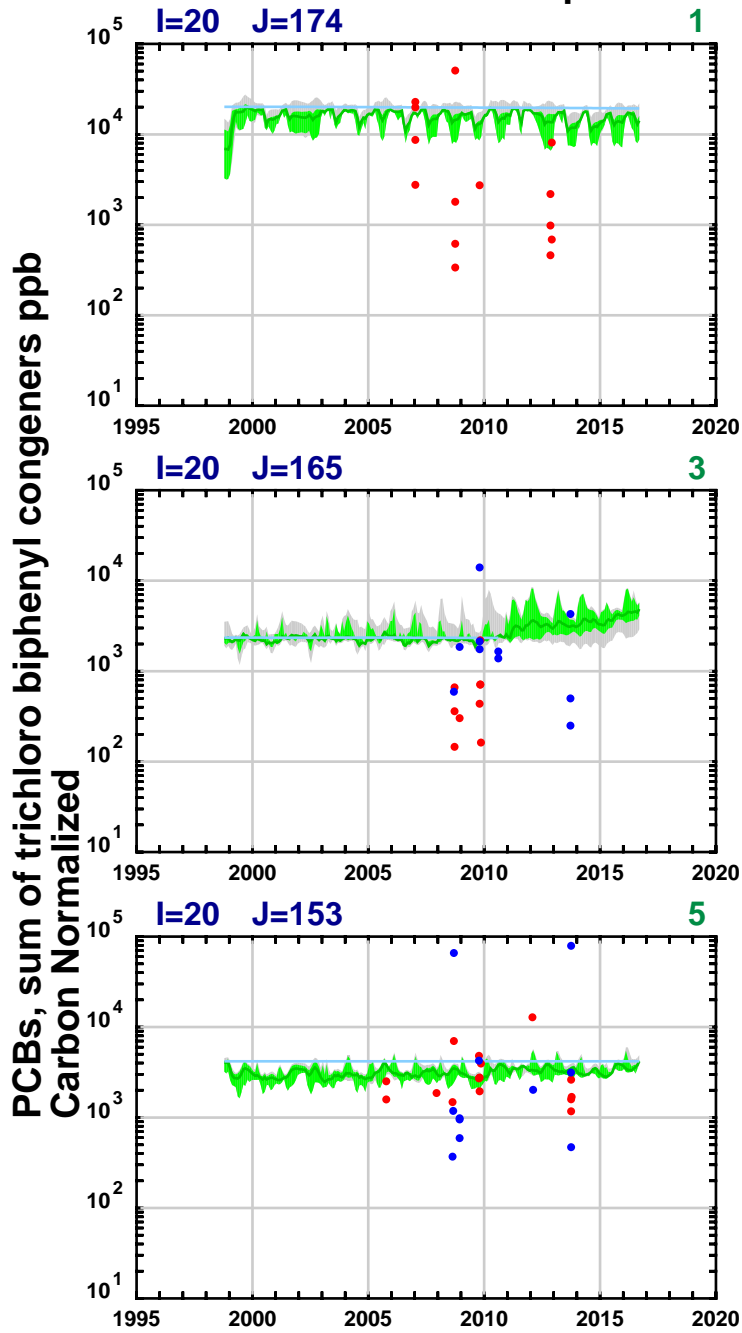
Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Lower Passaic River - I



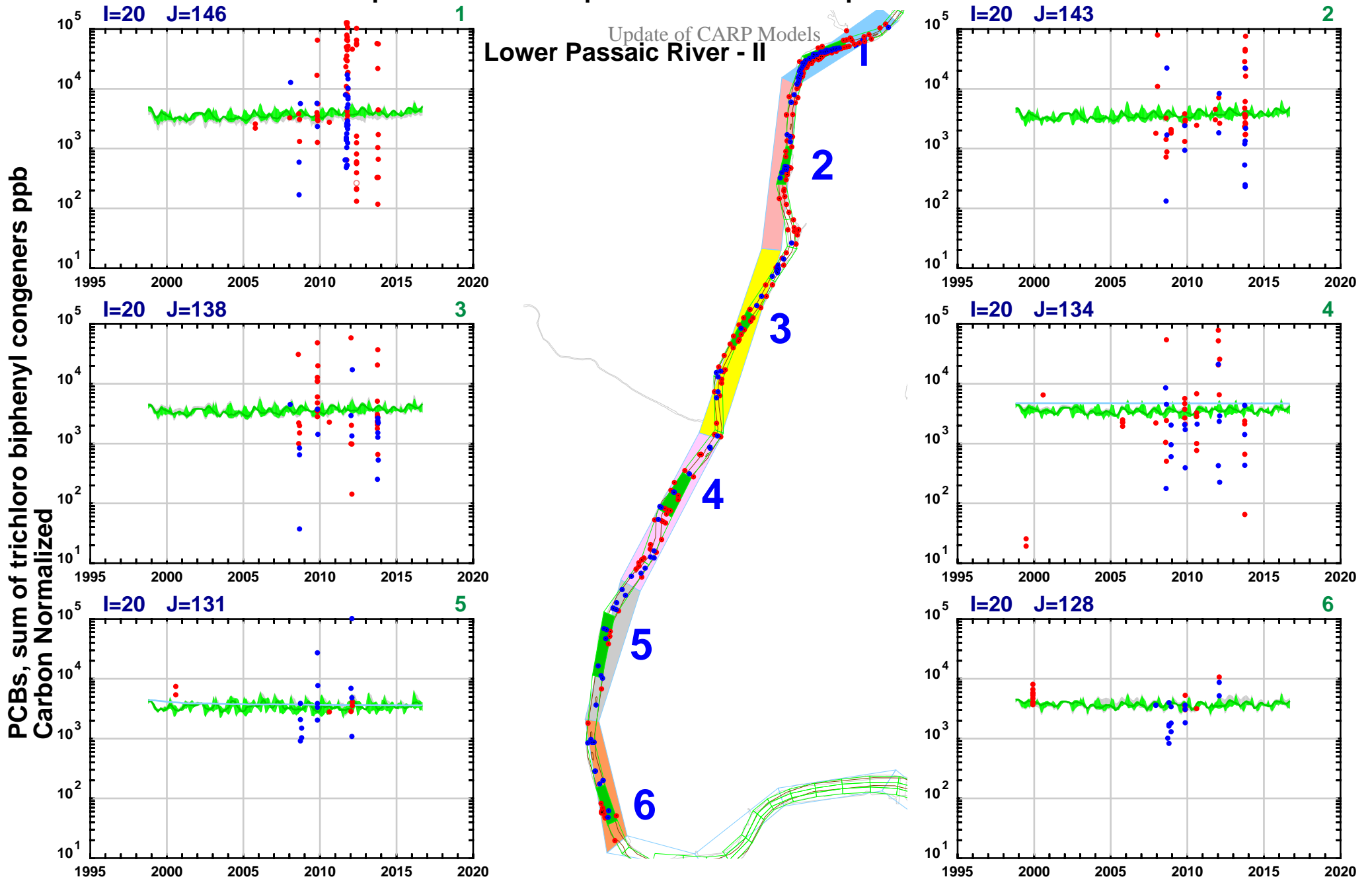
RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

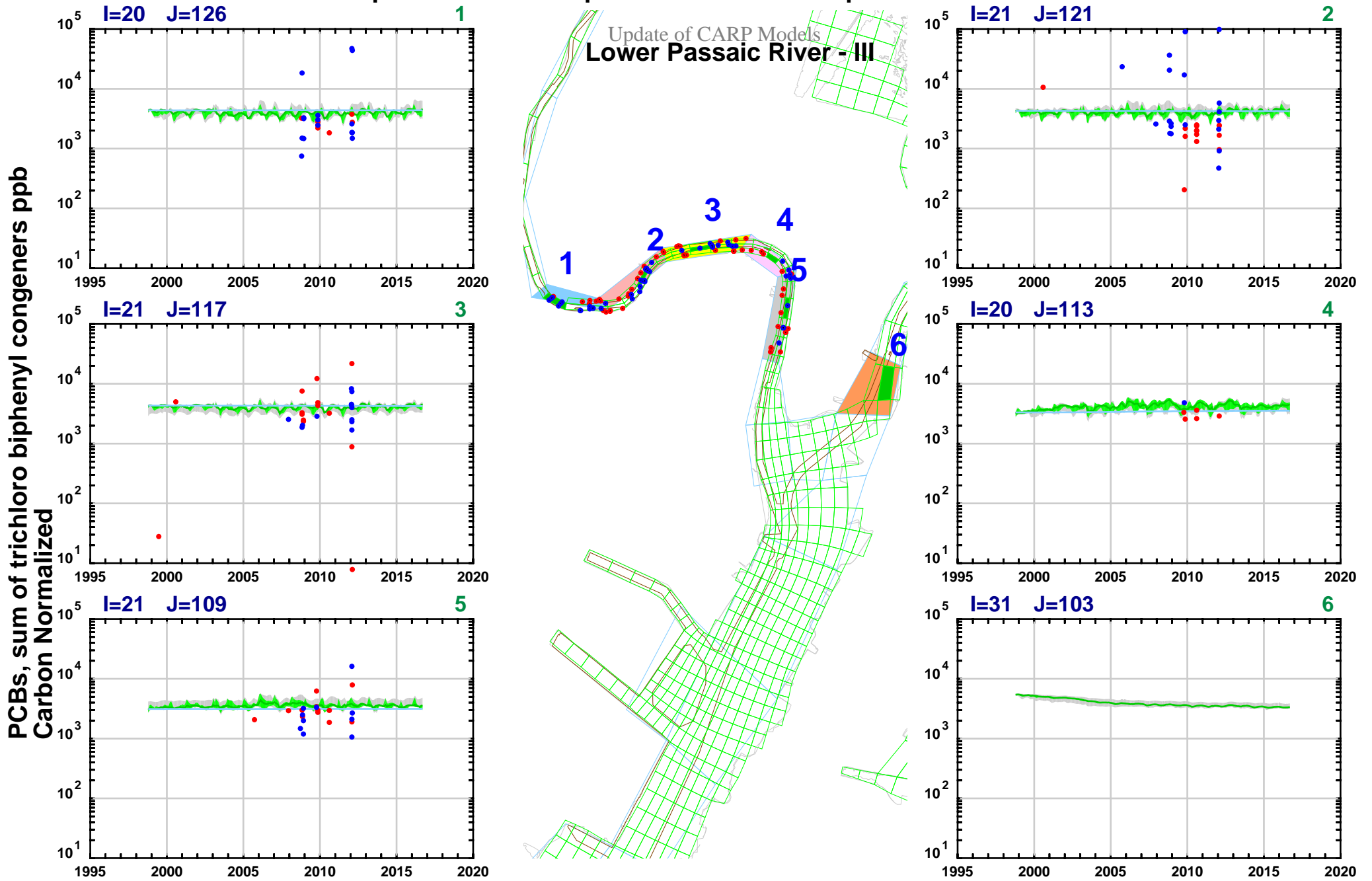


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

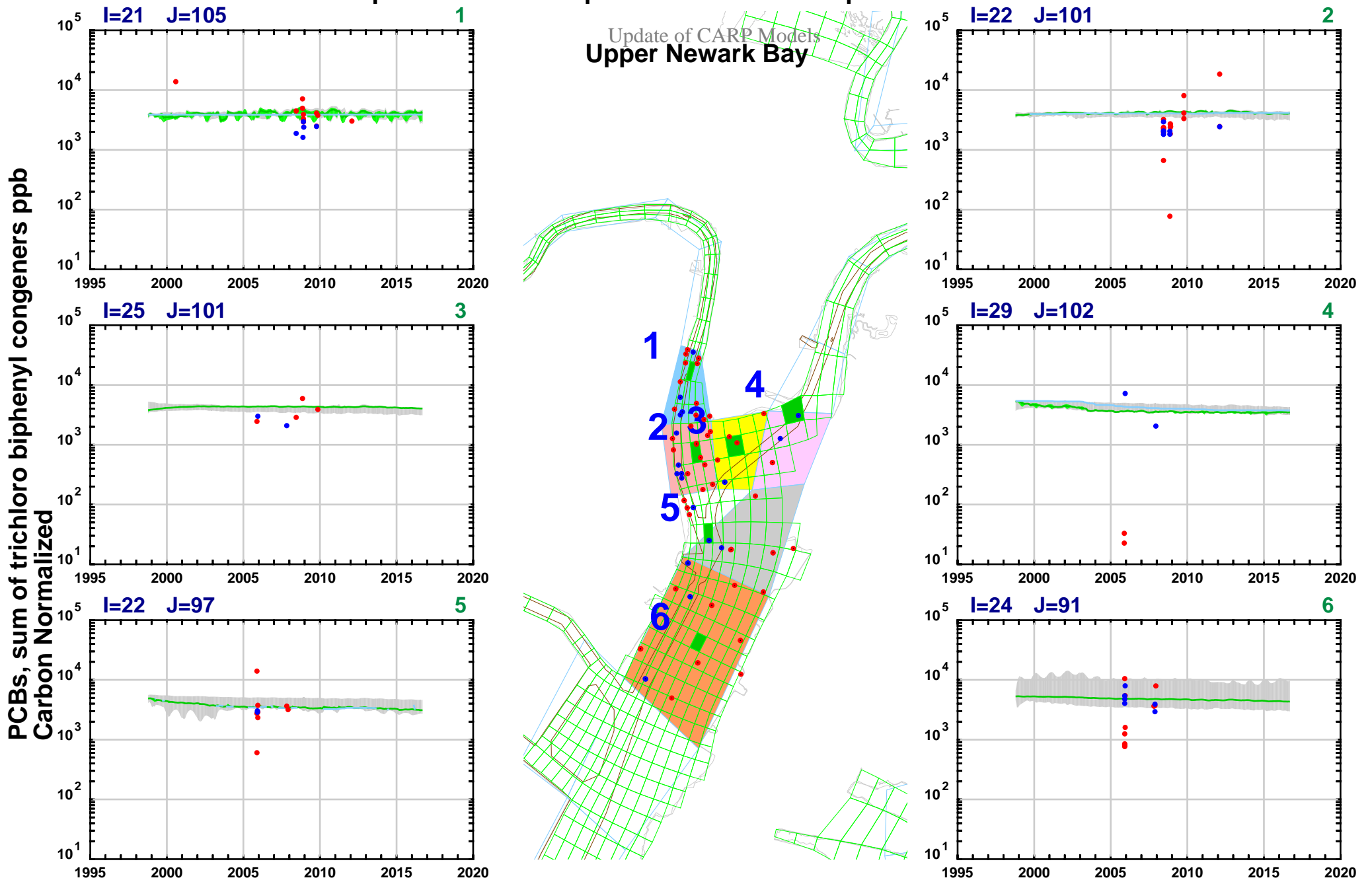


**RUN18\_S2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data**    **● Off-channel data**    **▲ Dredge data**  
**■ CARP2 In-channel**    **■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

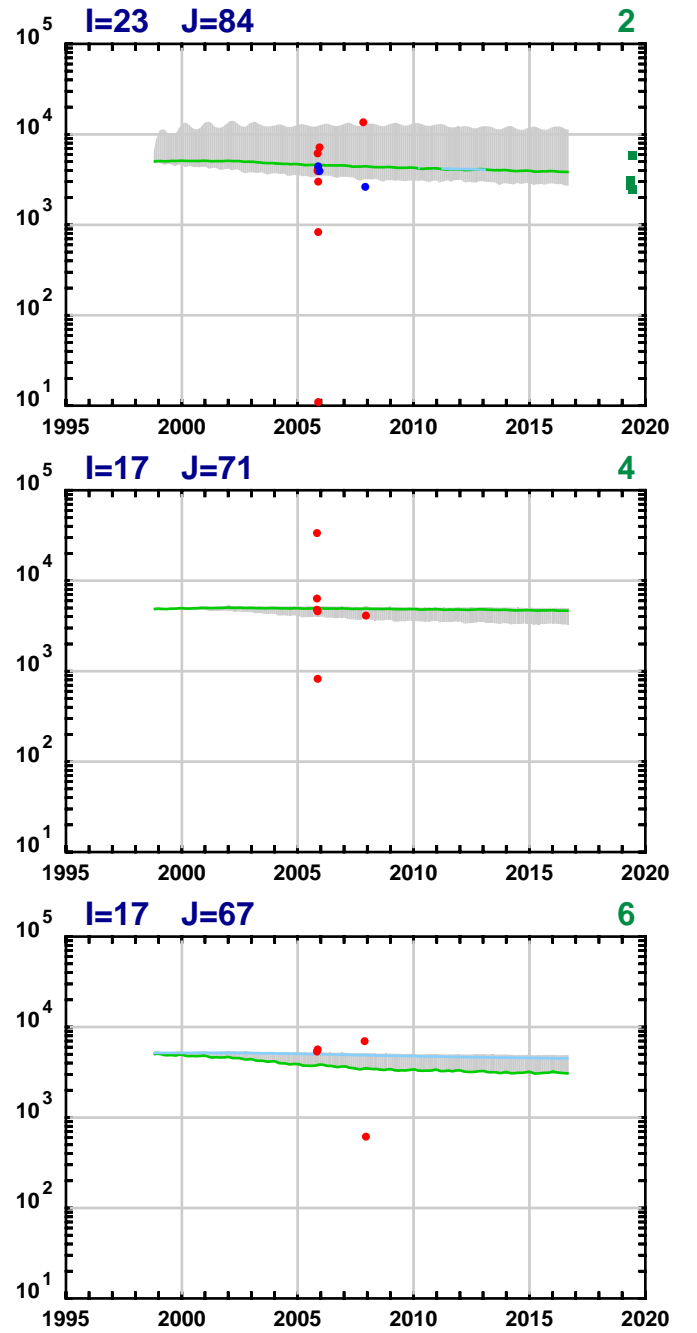
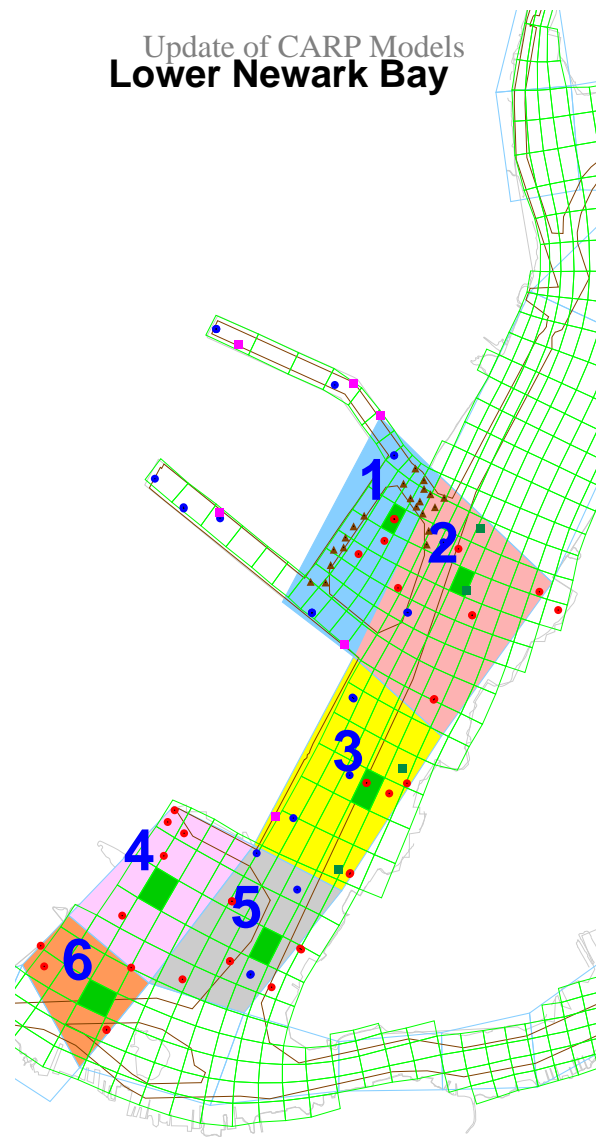
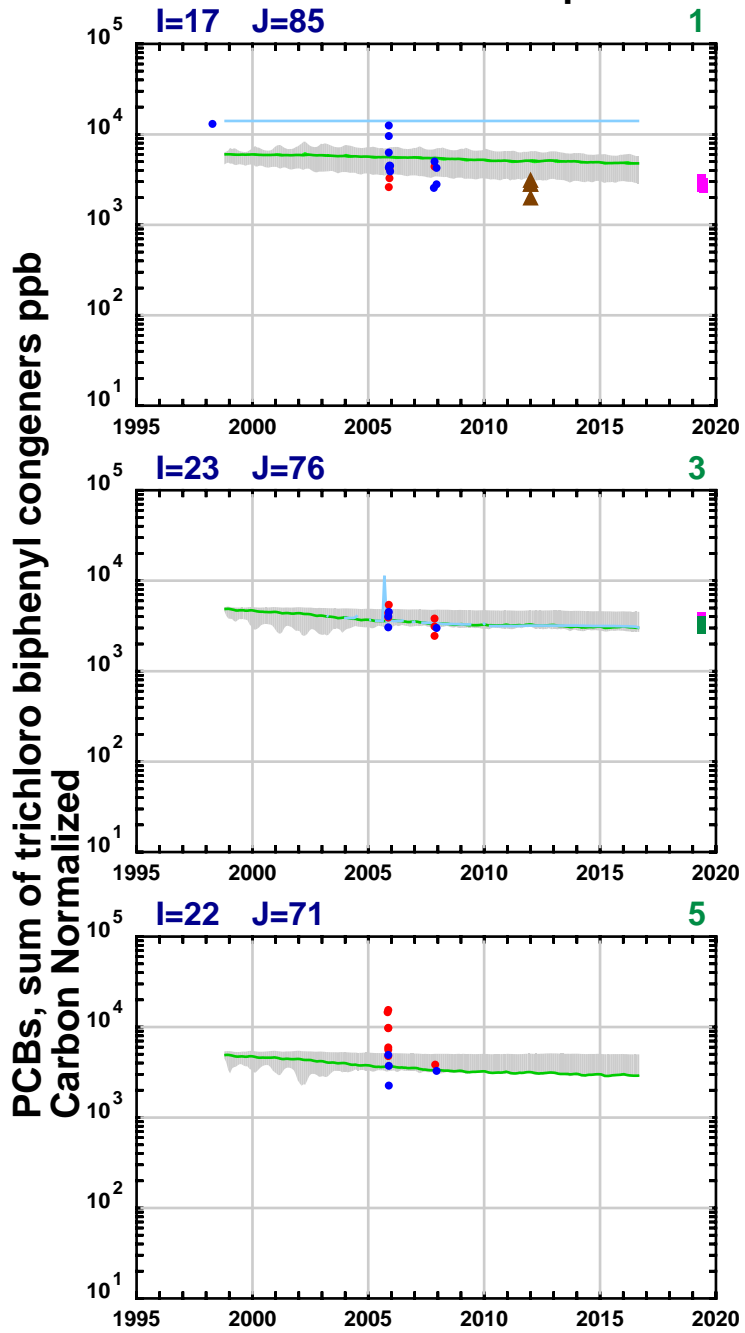


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



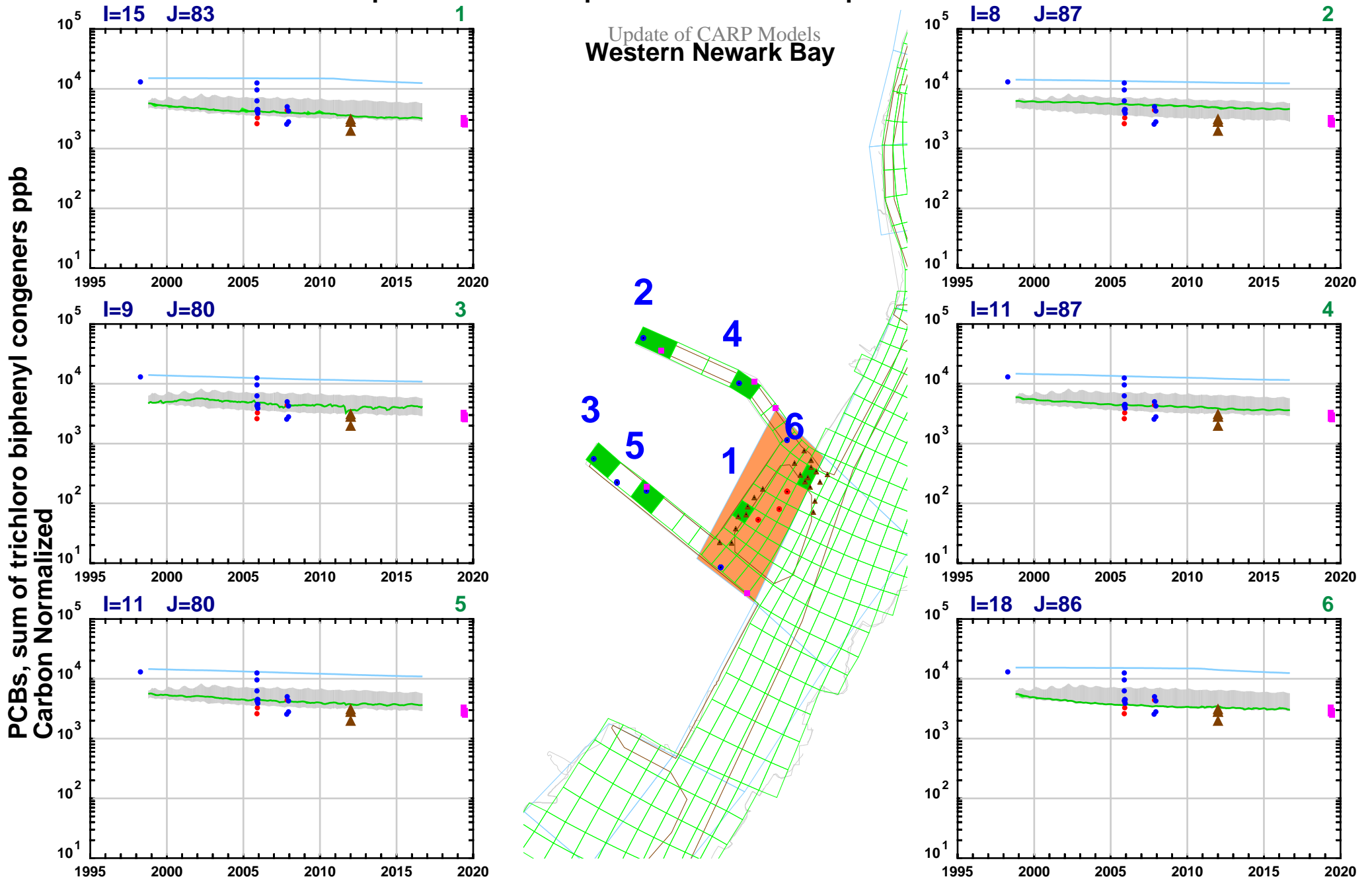
RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

## Update of CARP Models Western Newark Bay



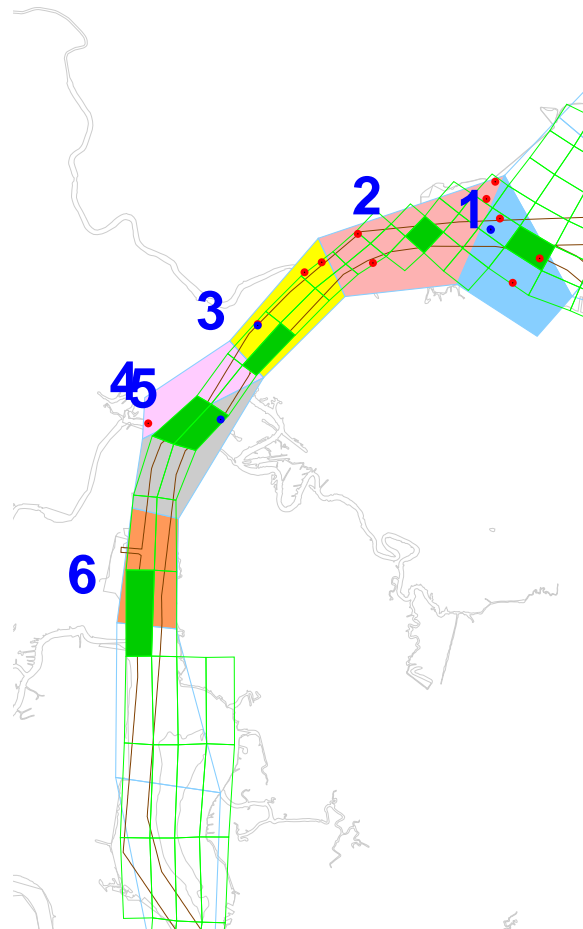
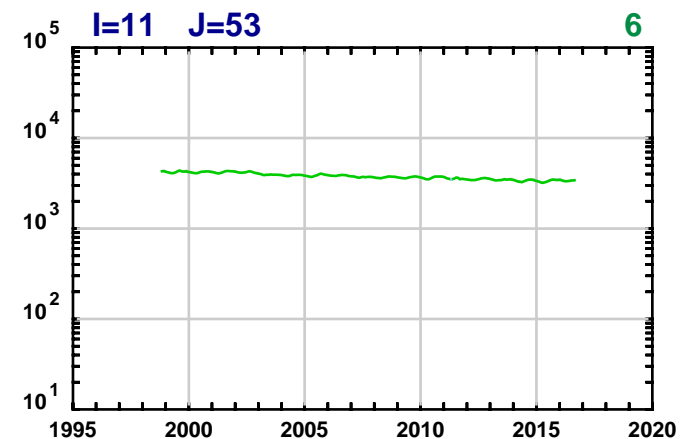
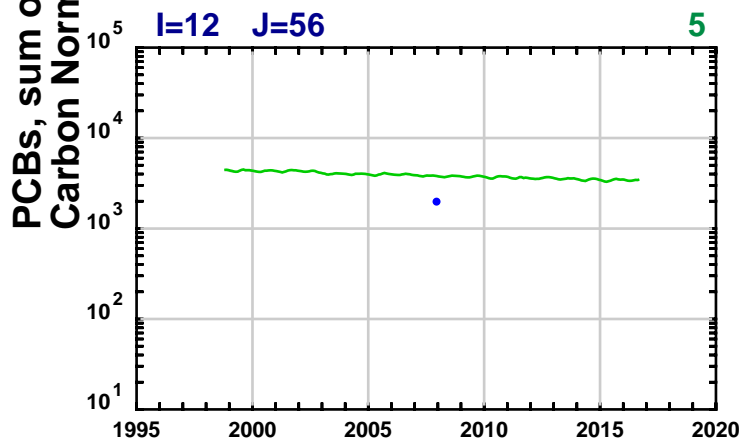
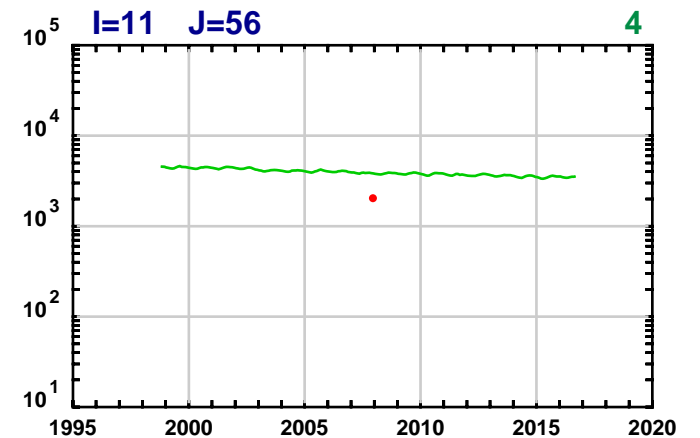
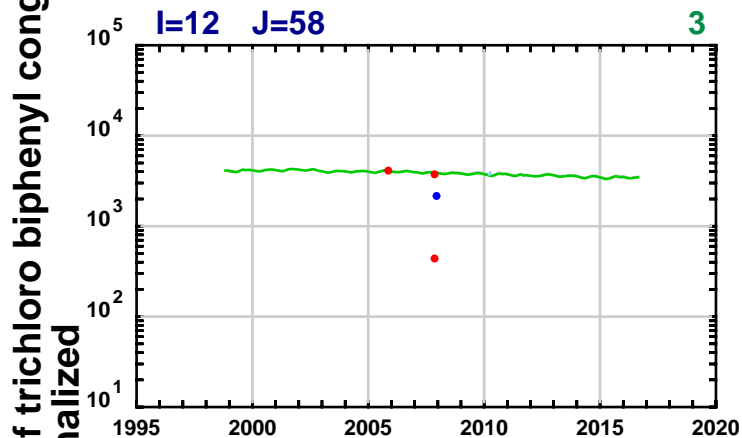
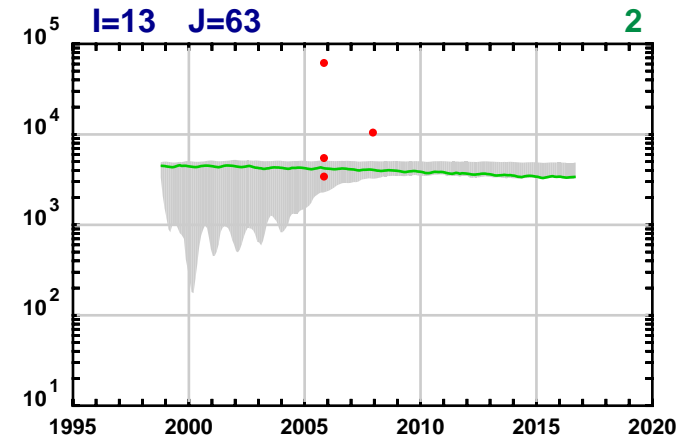
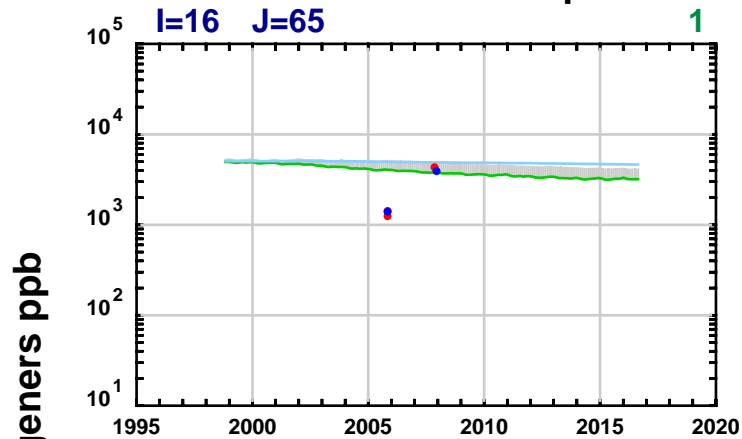
**RUN18\_S2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

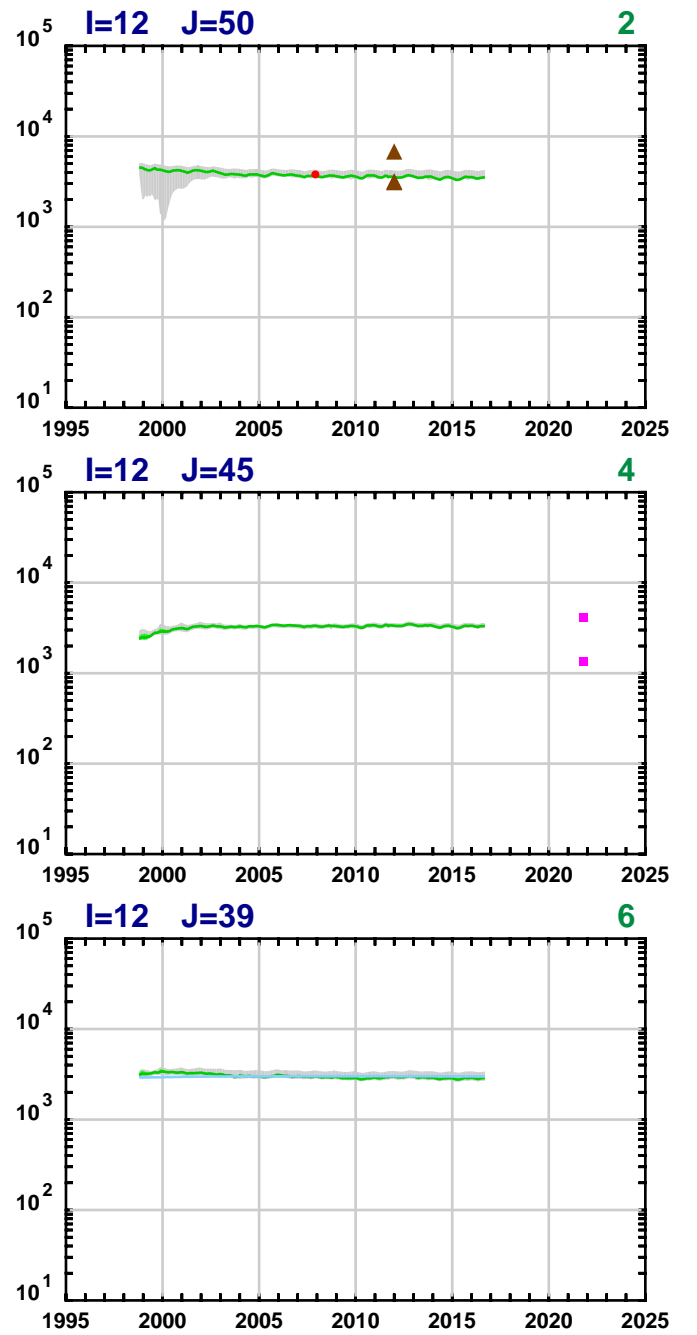
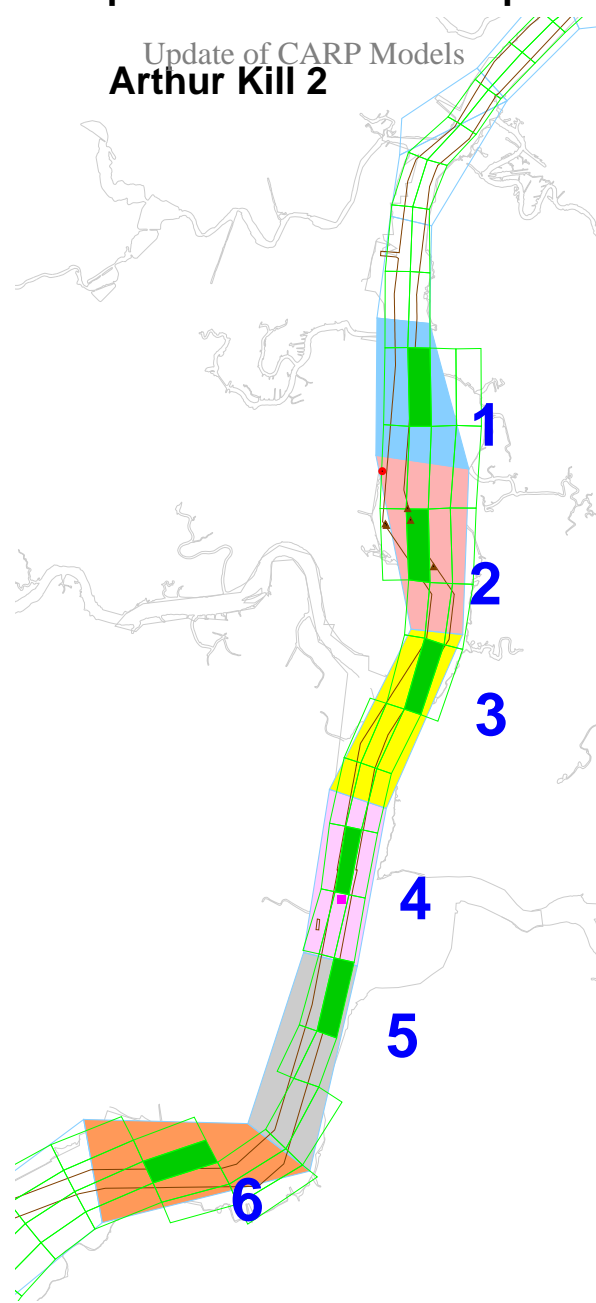
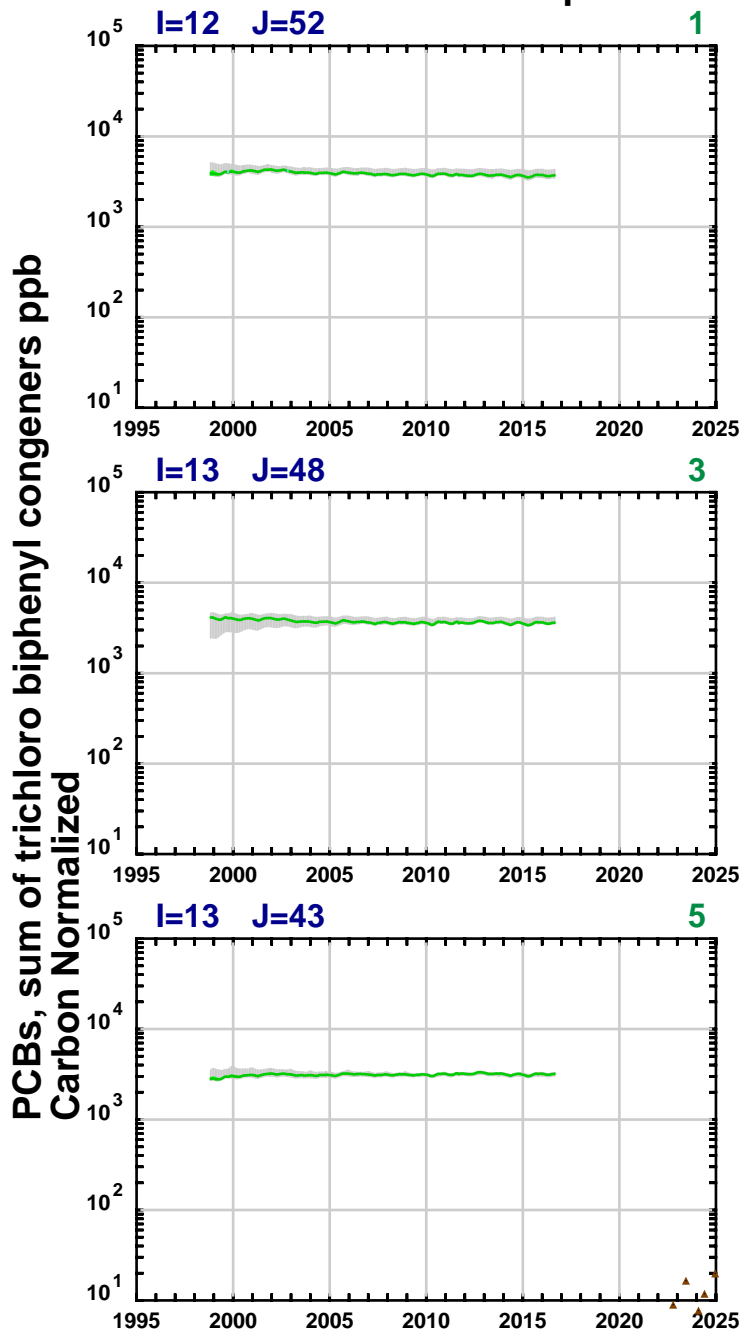


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



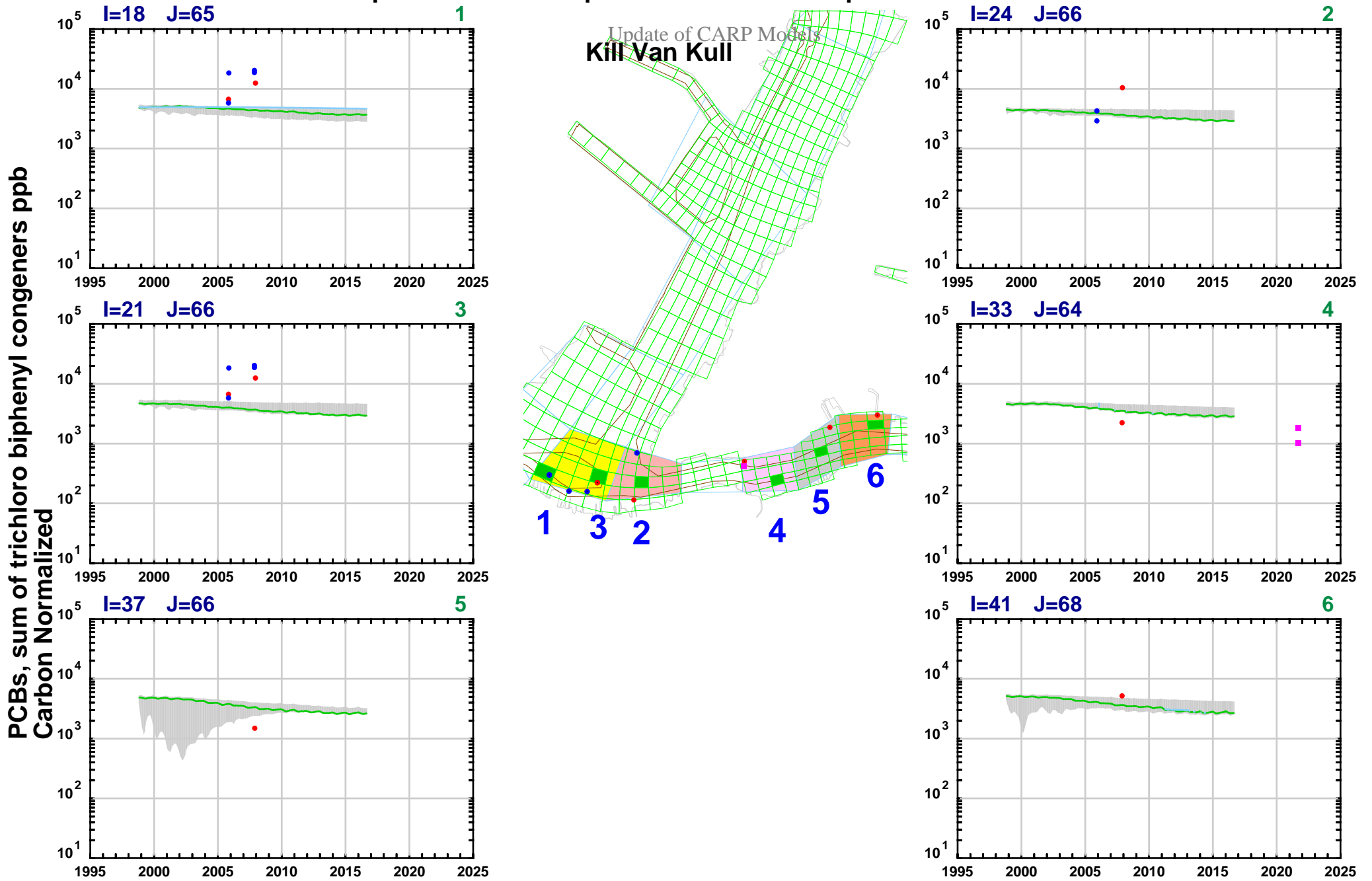
**RUN18\_S2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

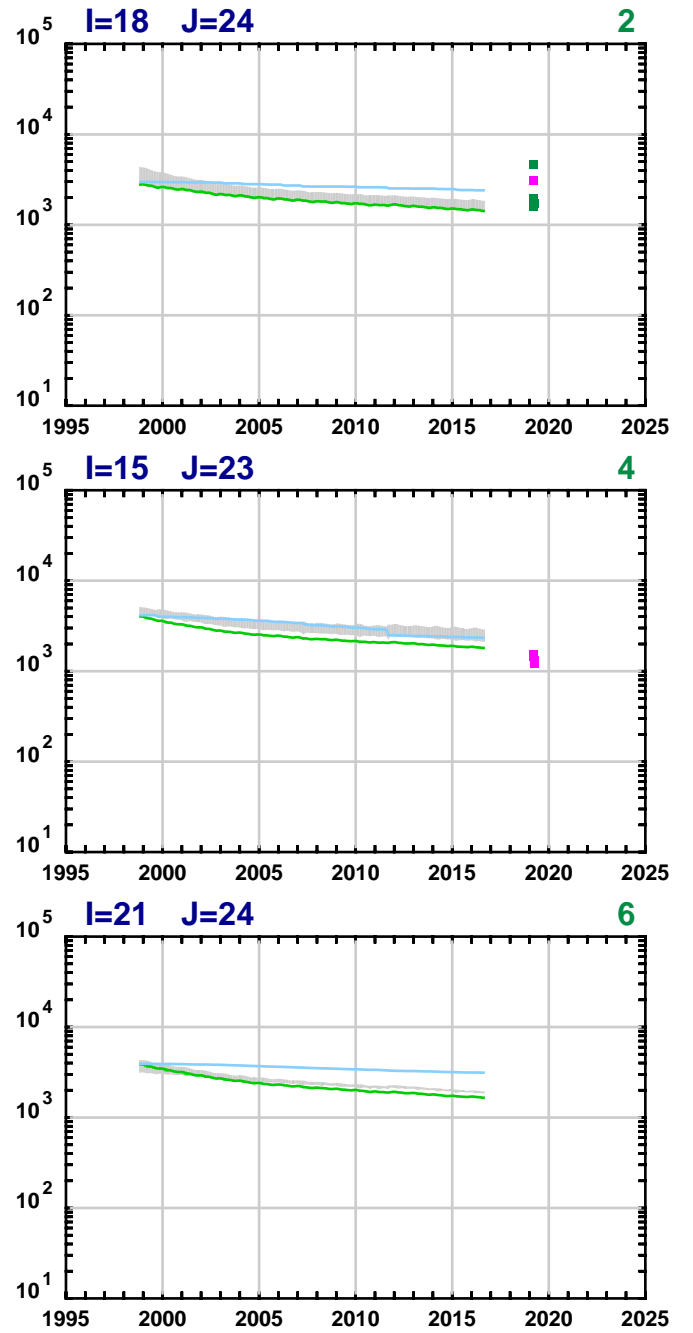
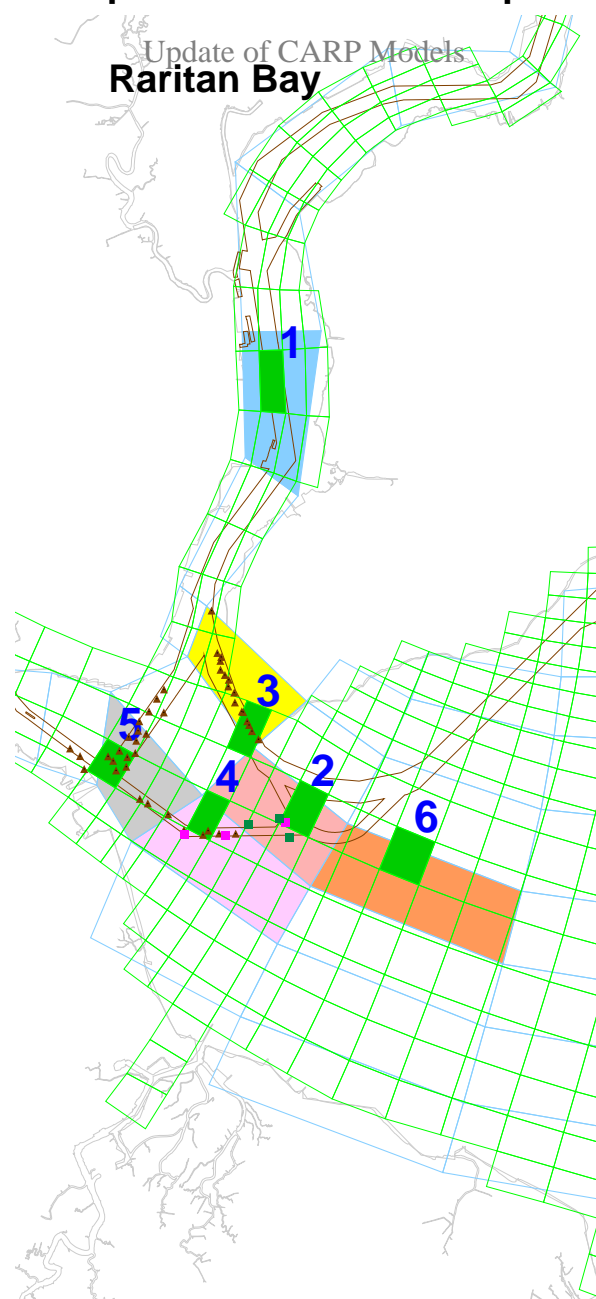
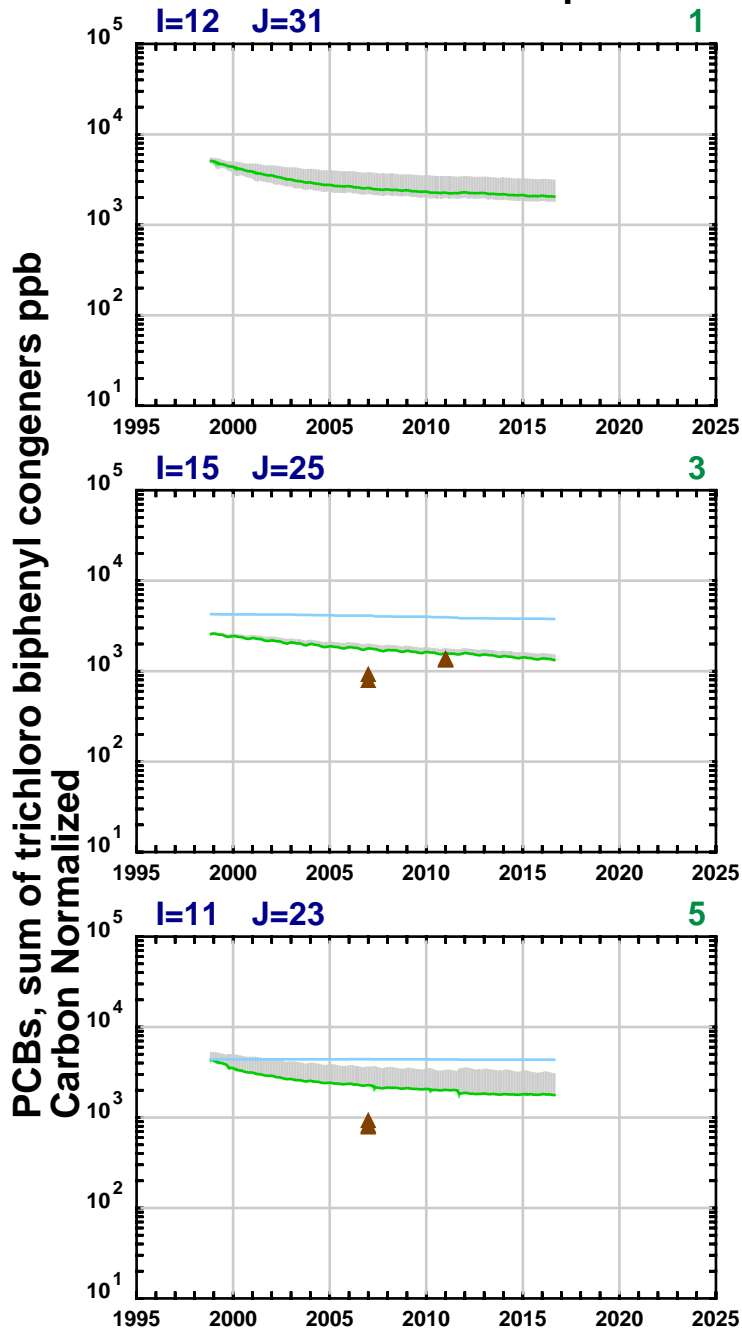


**RUN18\_S2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

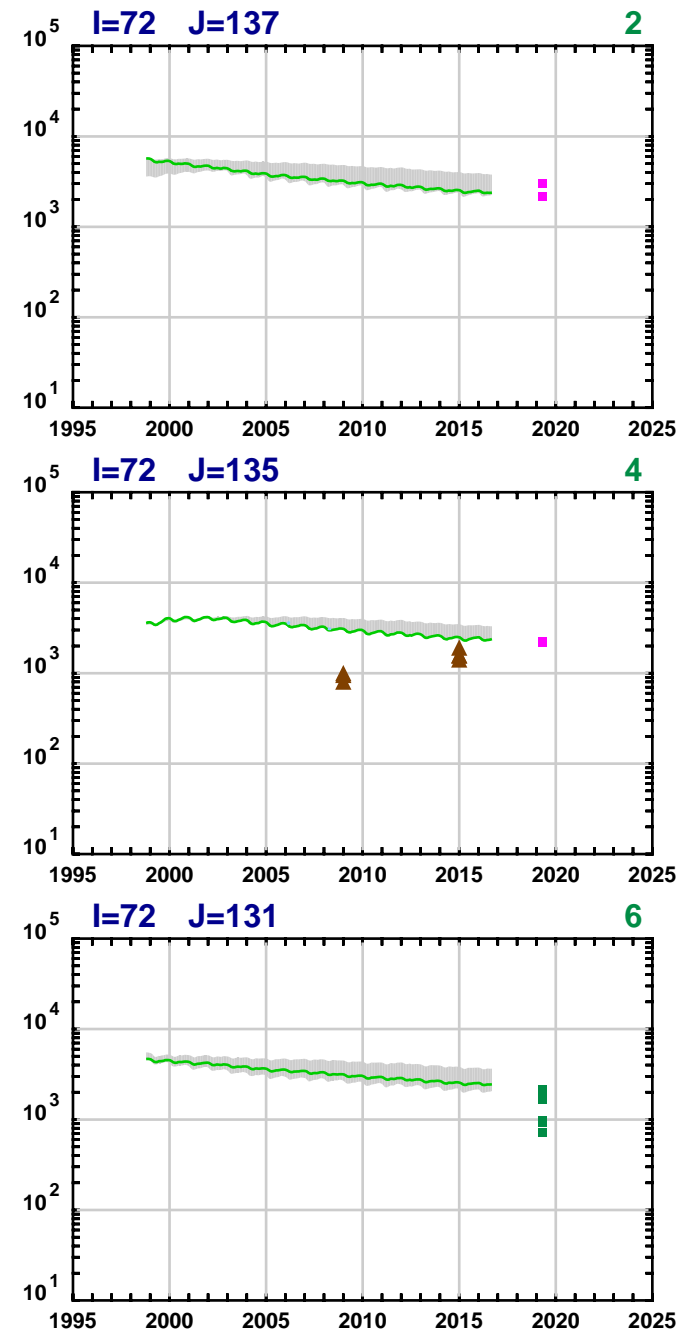
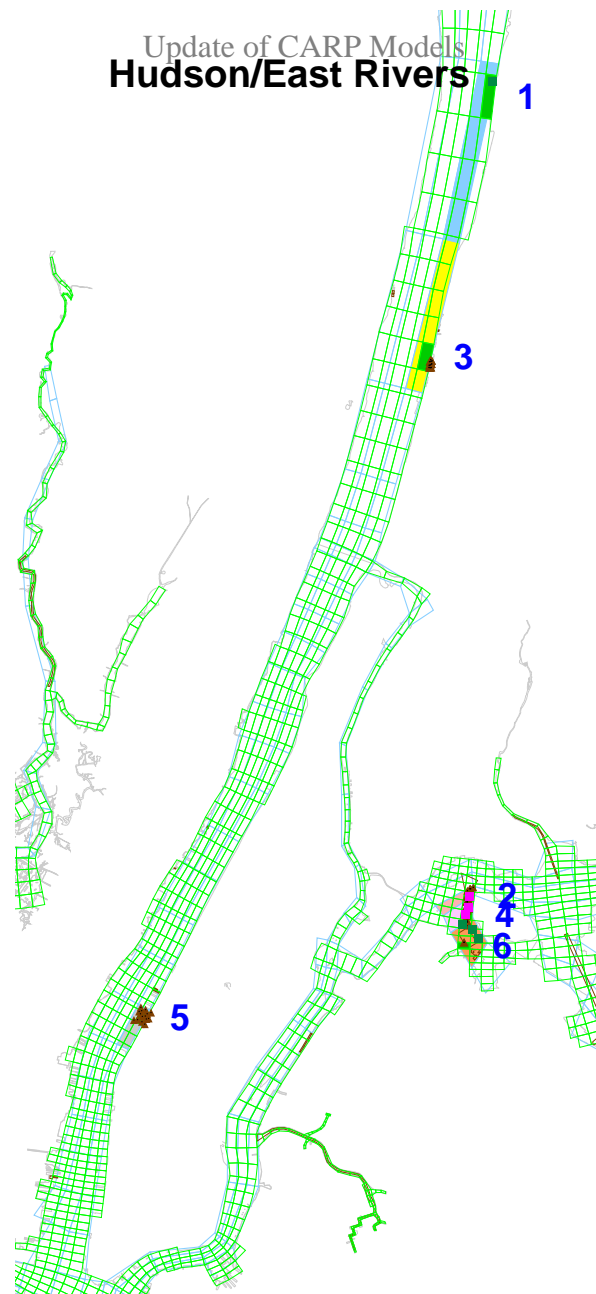
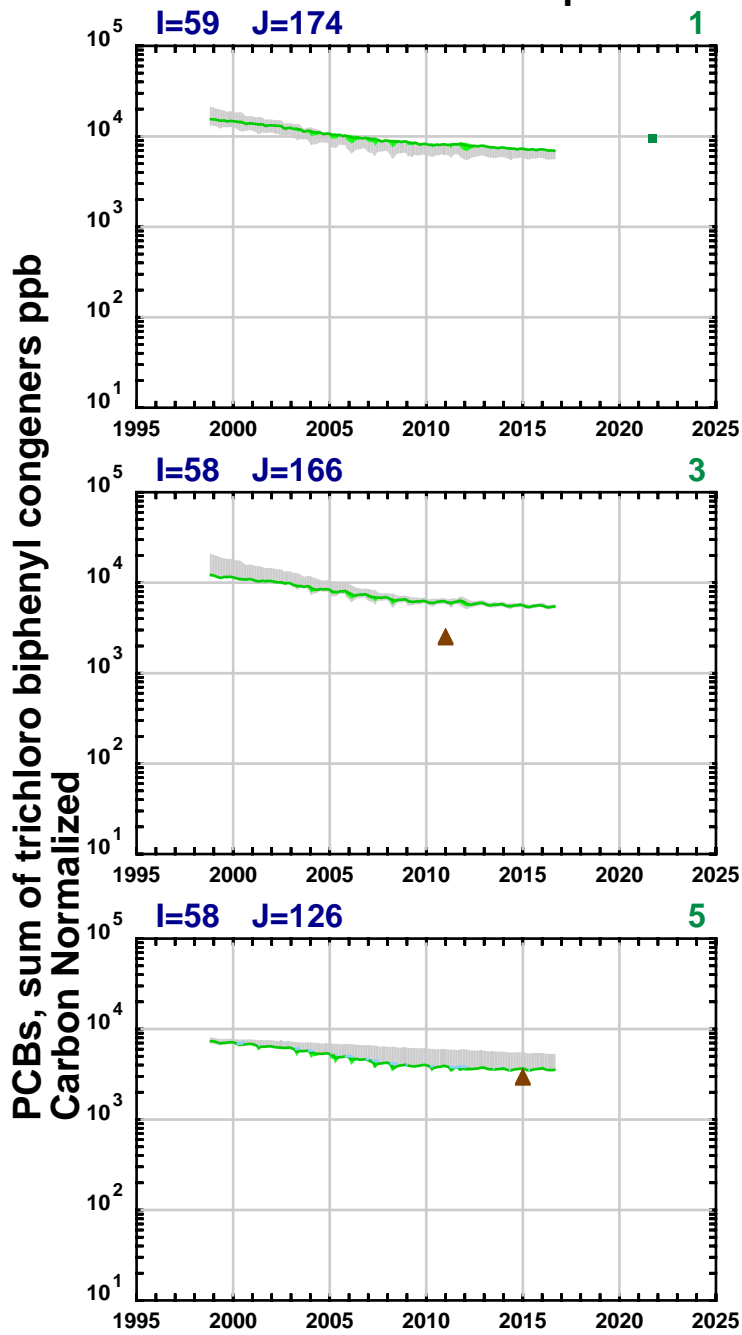


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

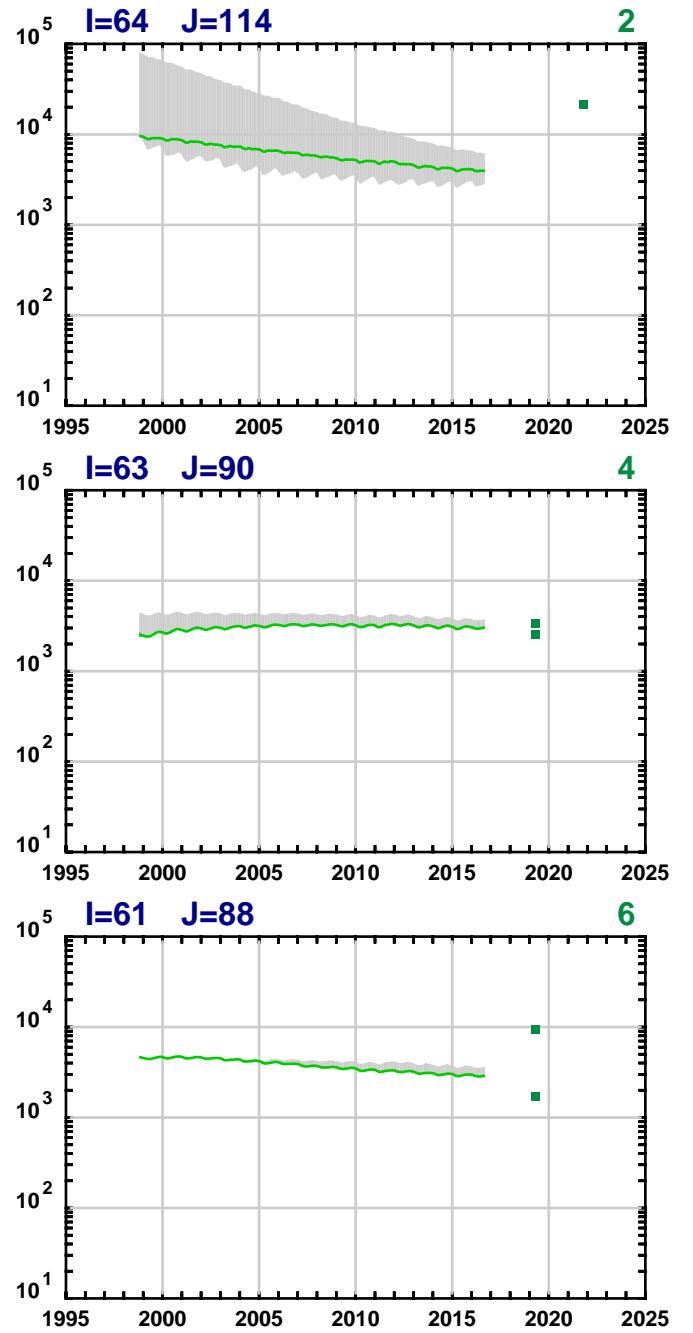
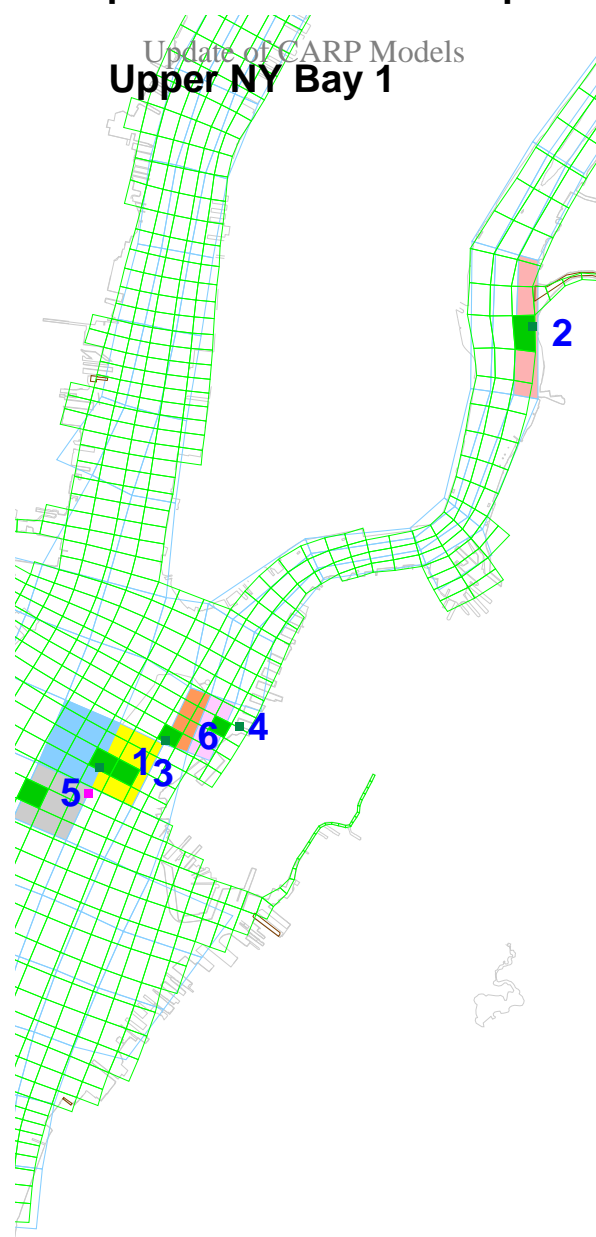
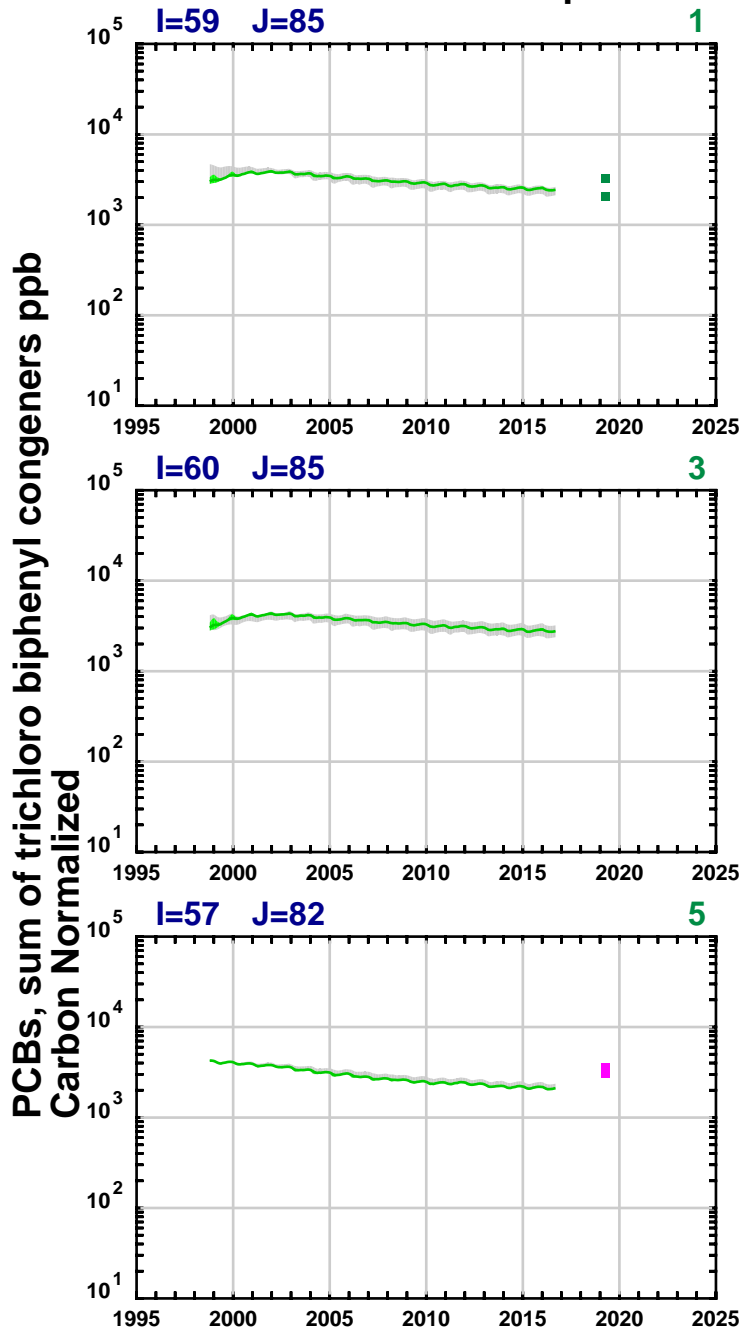


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

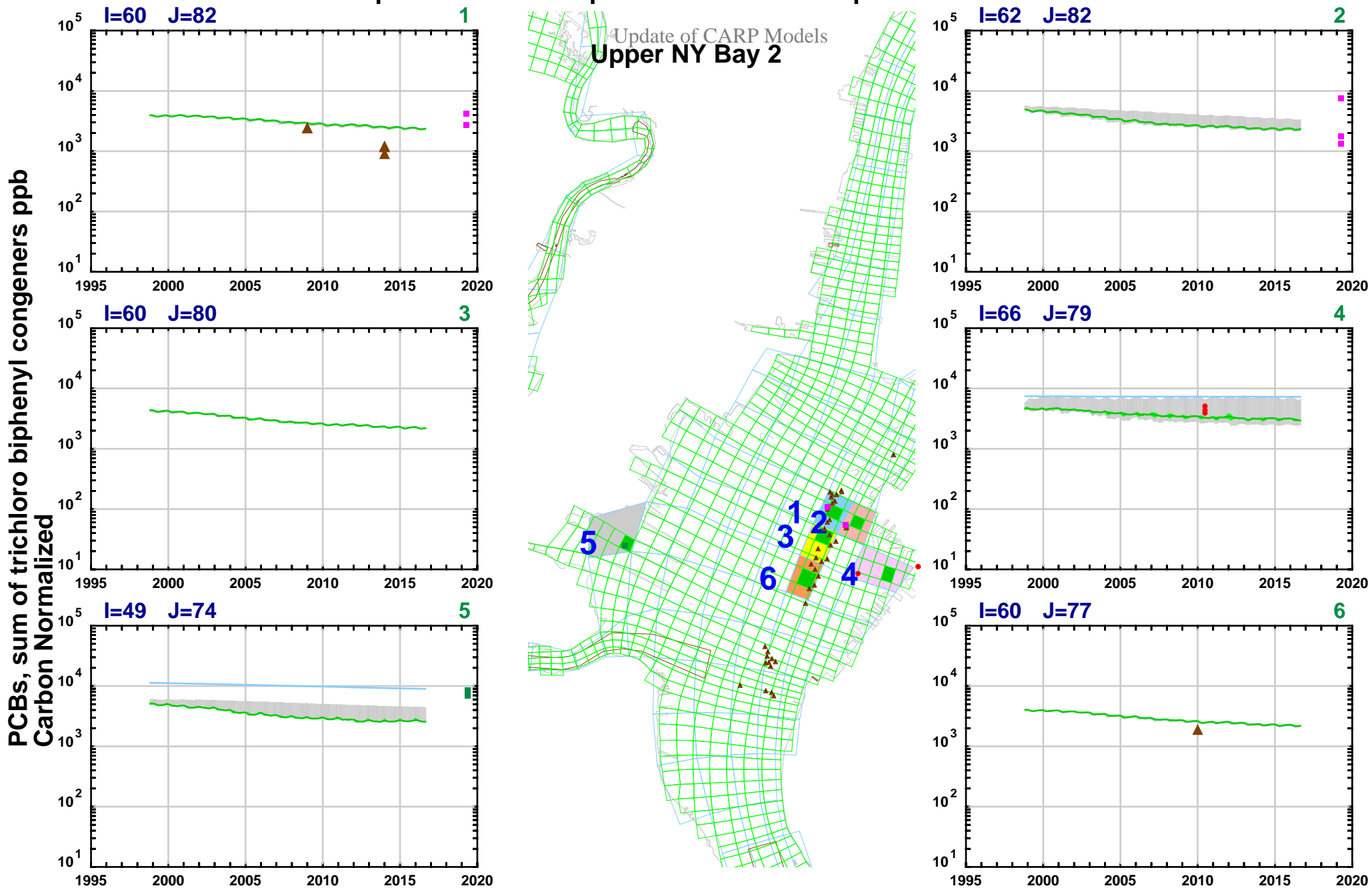


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

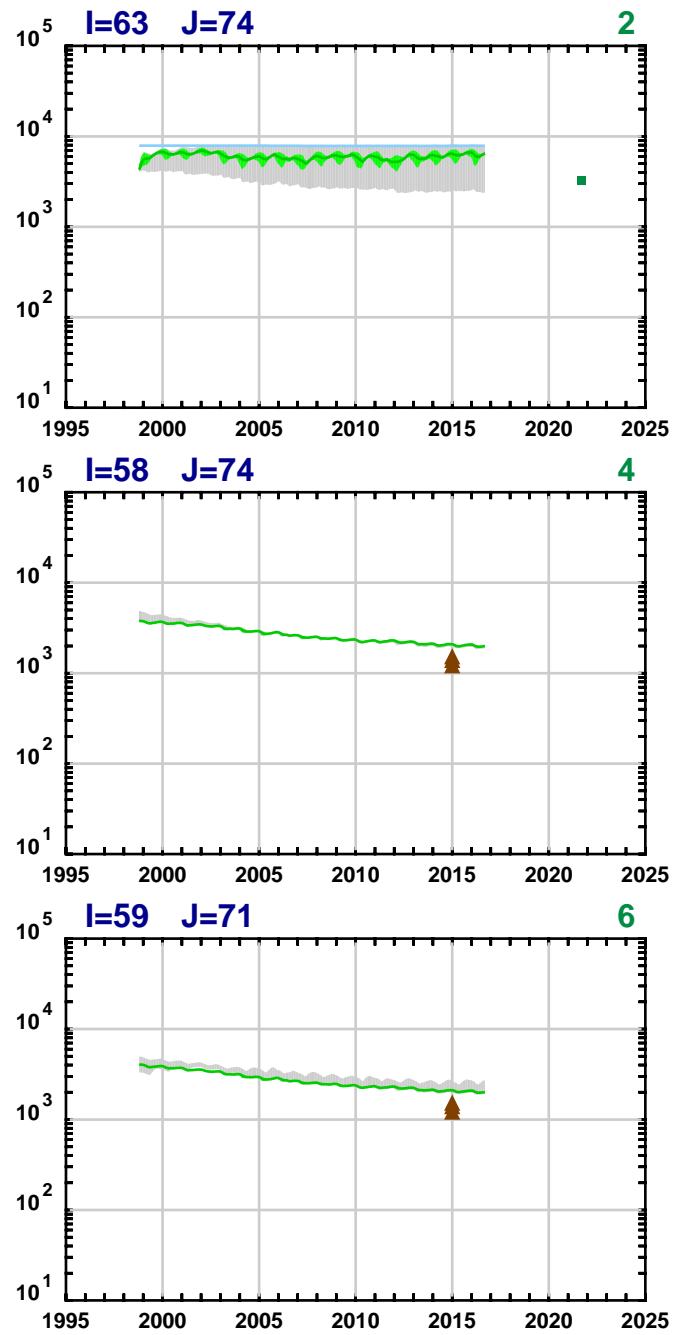
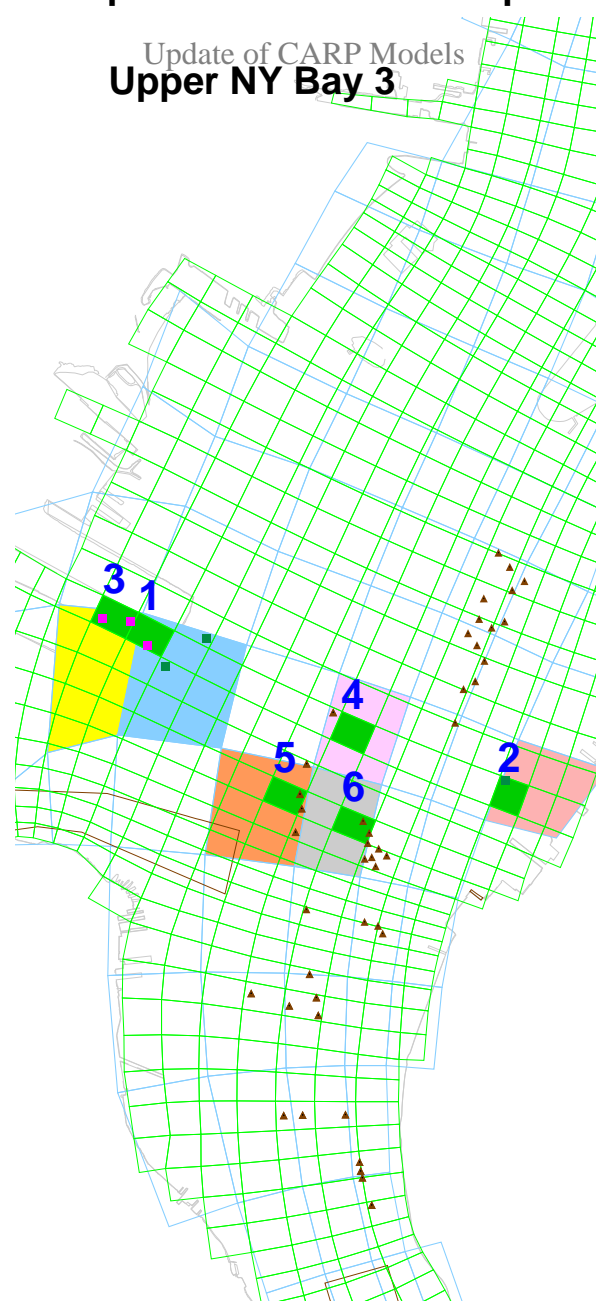
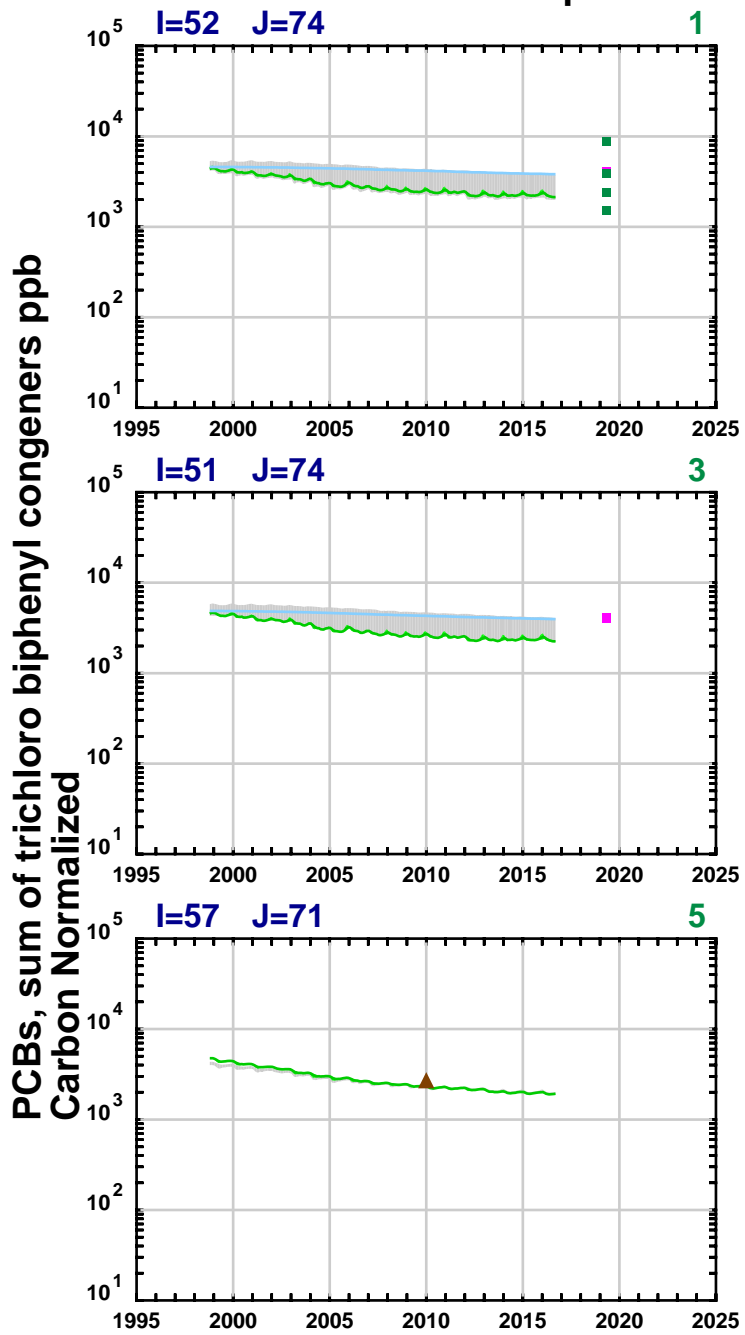


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



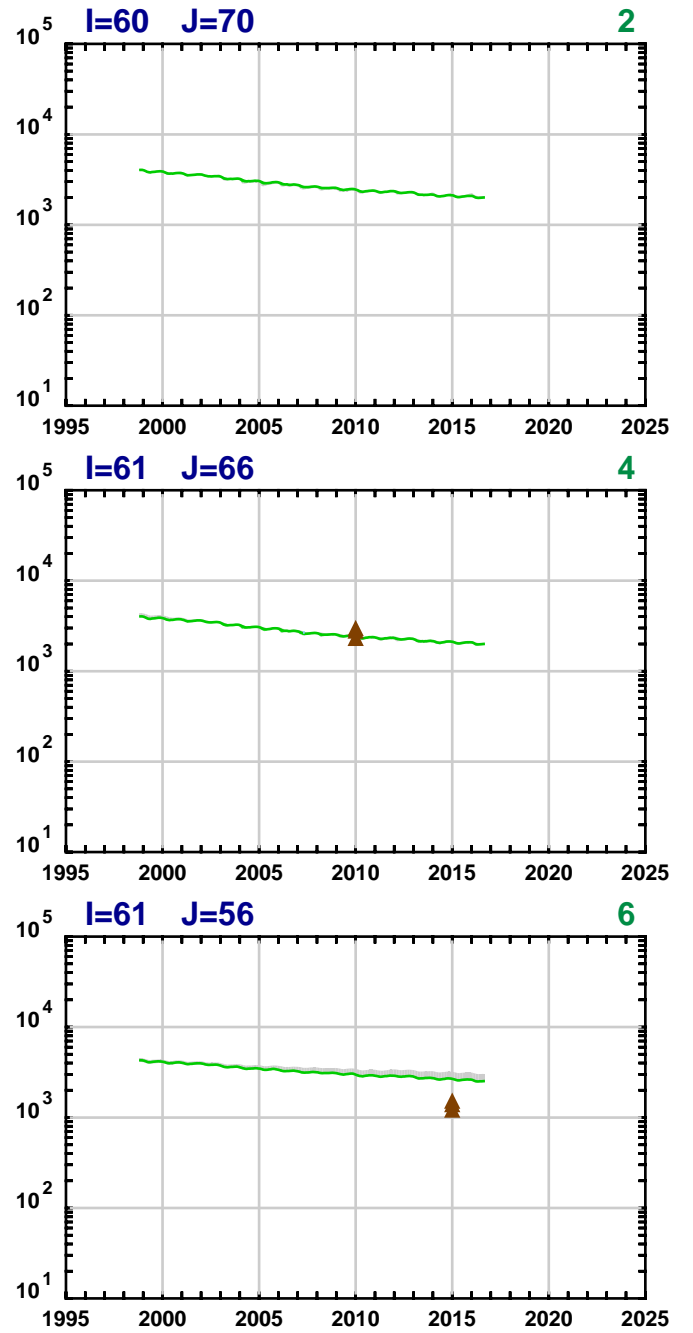
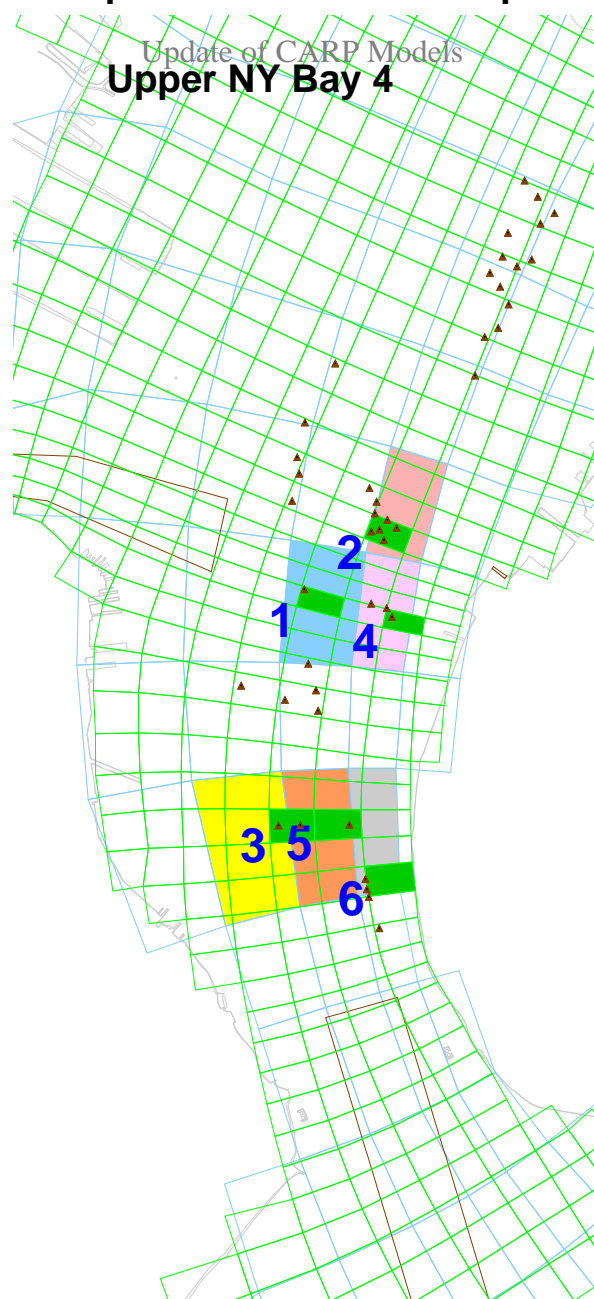
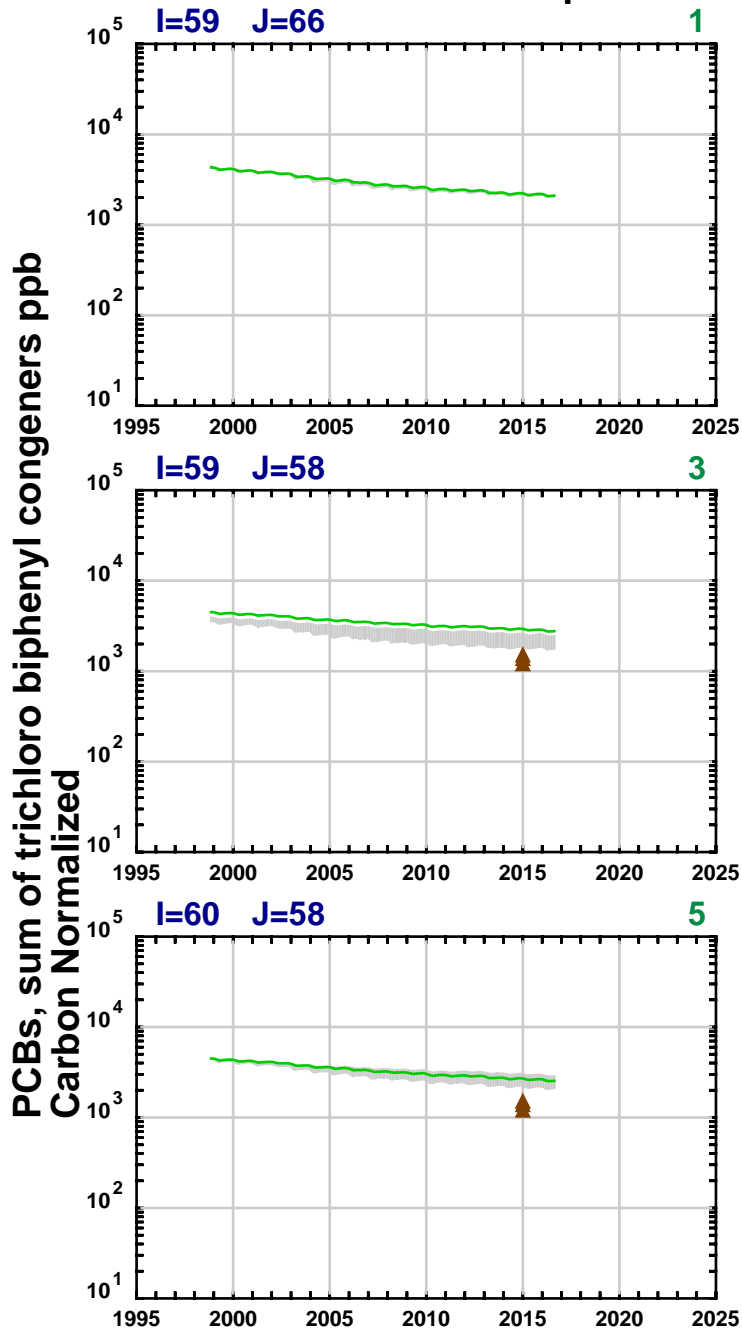
RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



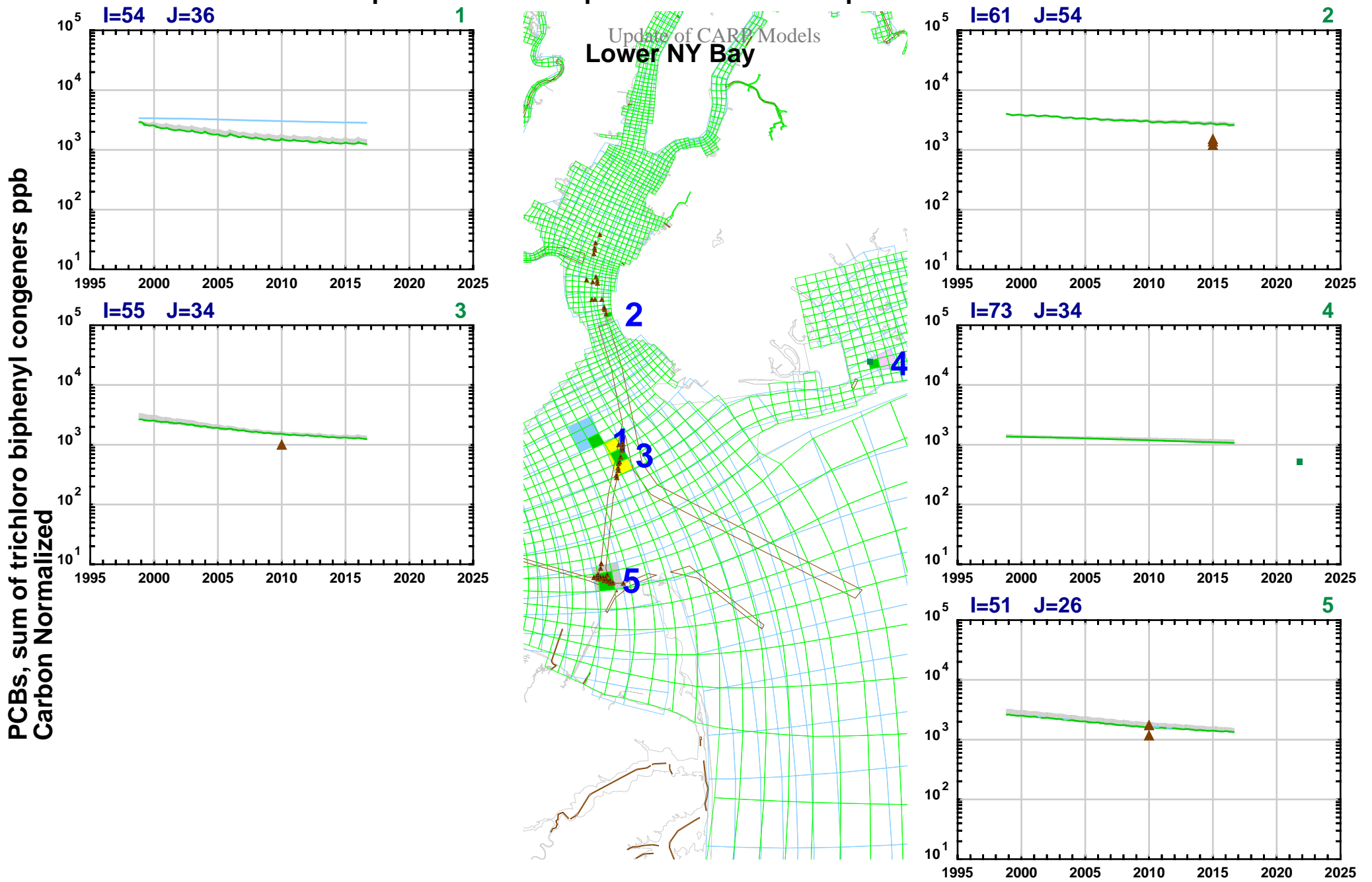
RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



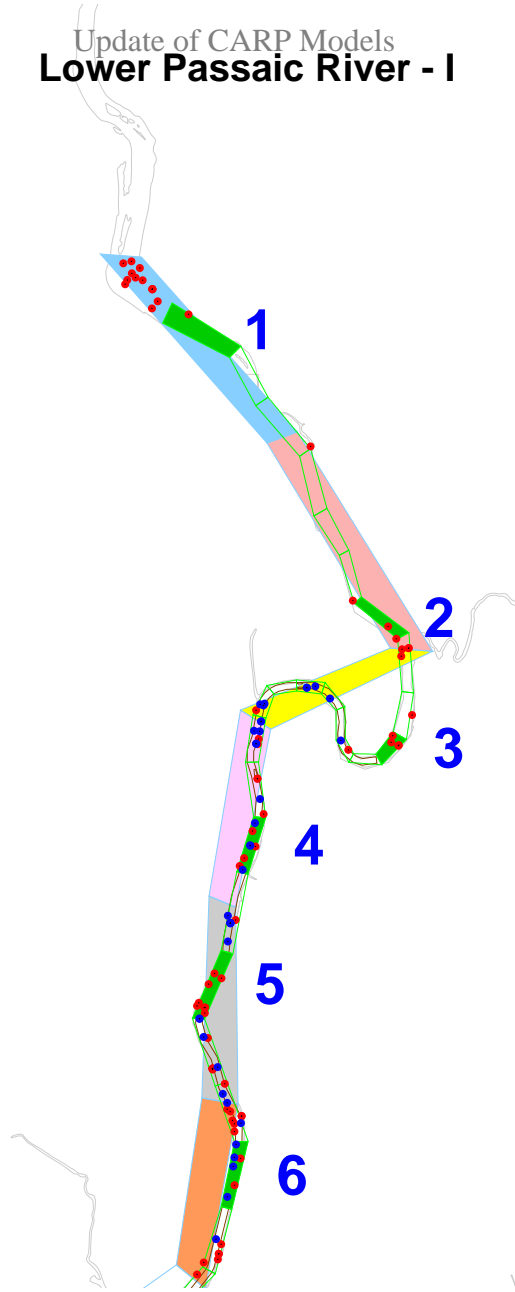
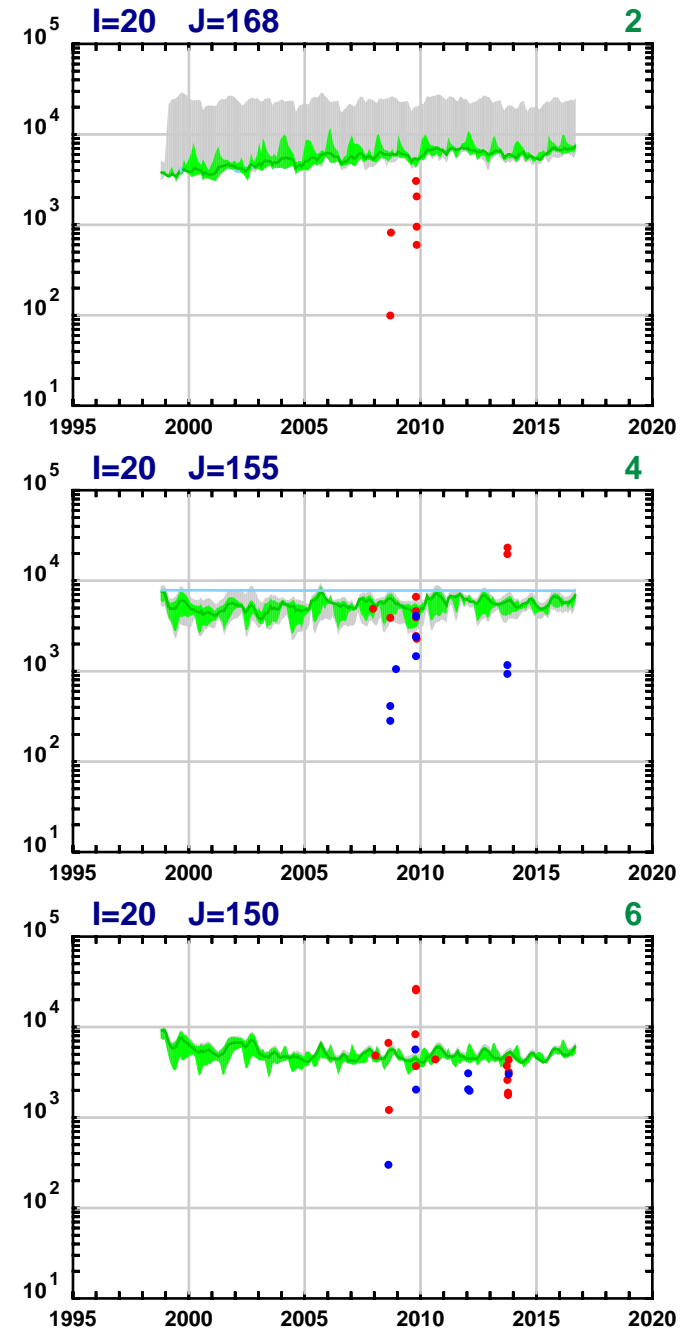
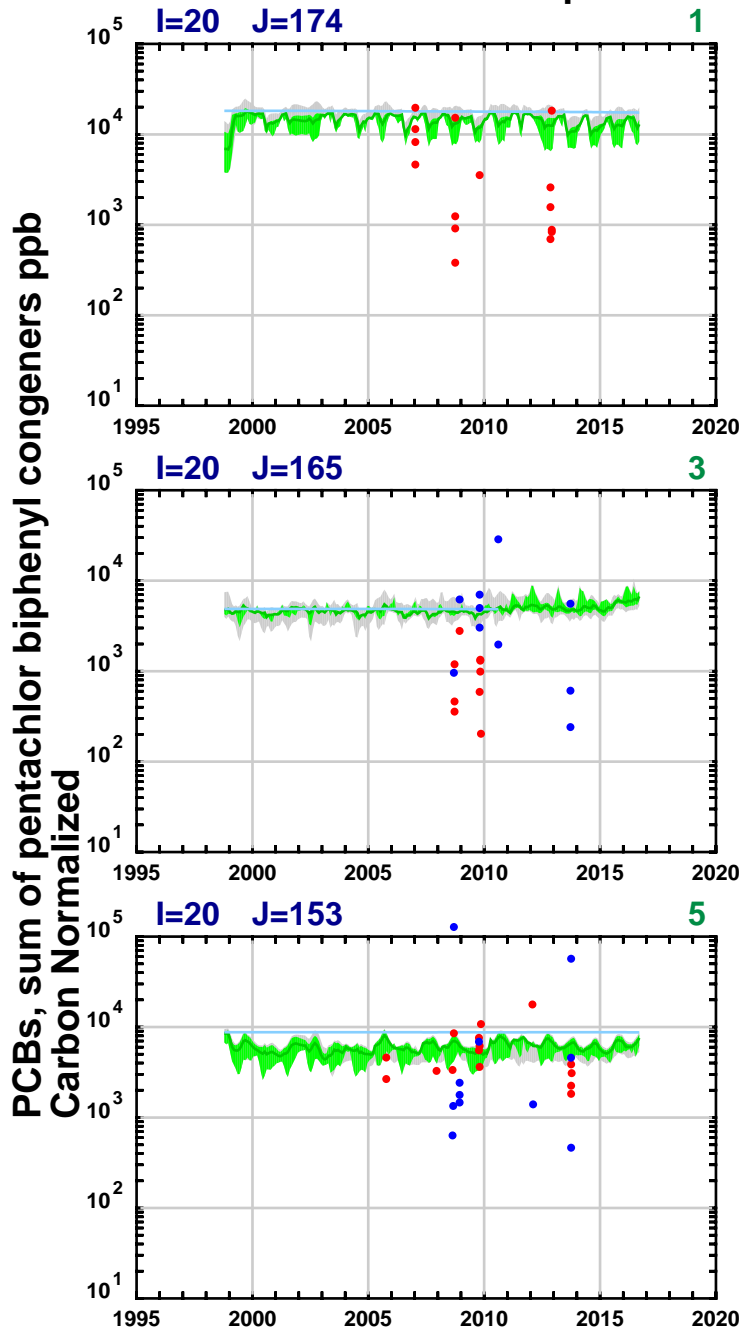
RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Lower Passaic River - I

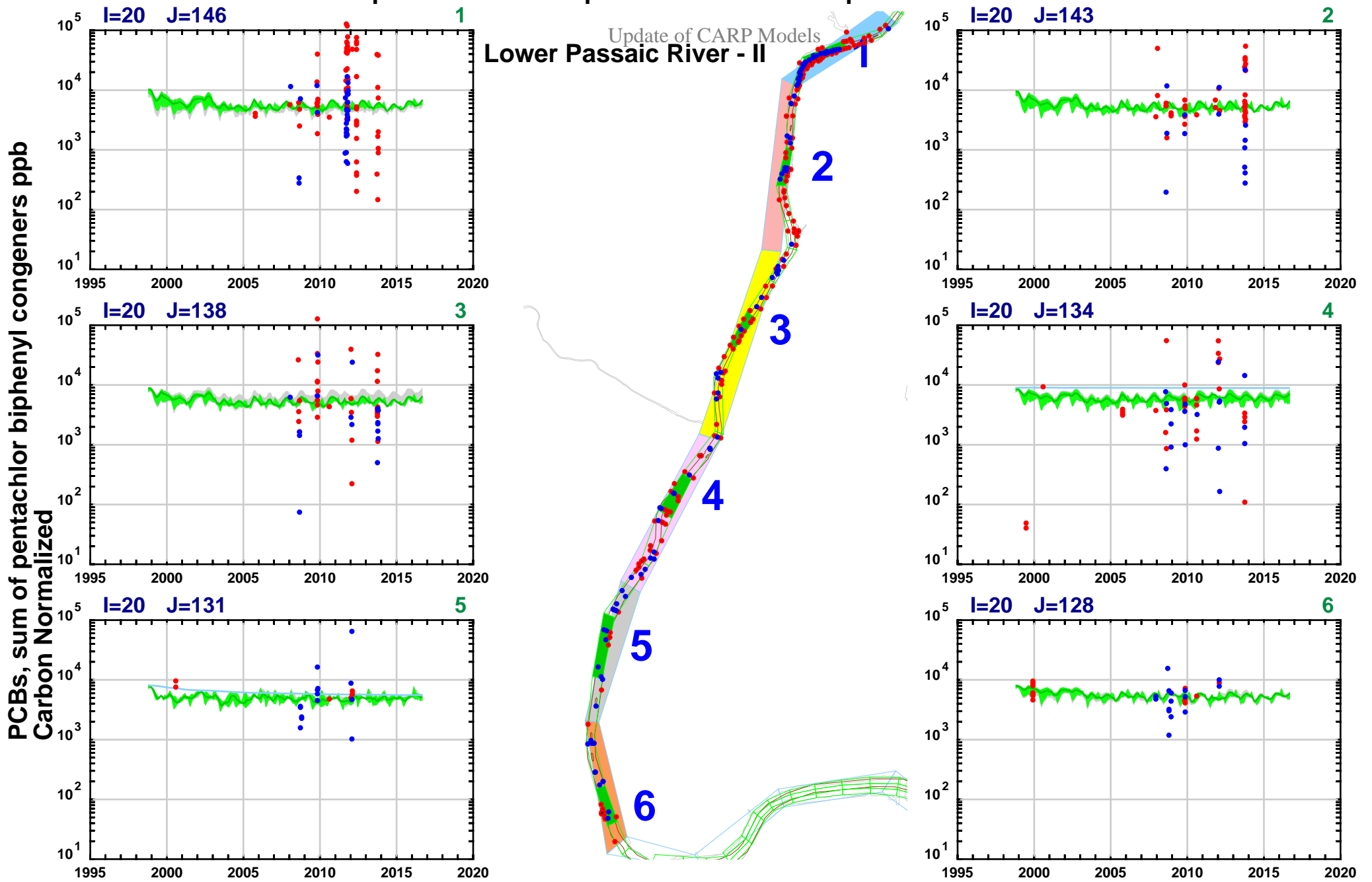


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

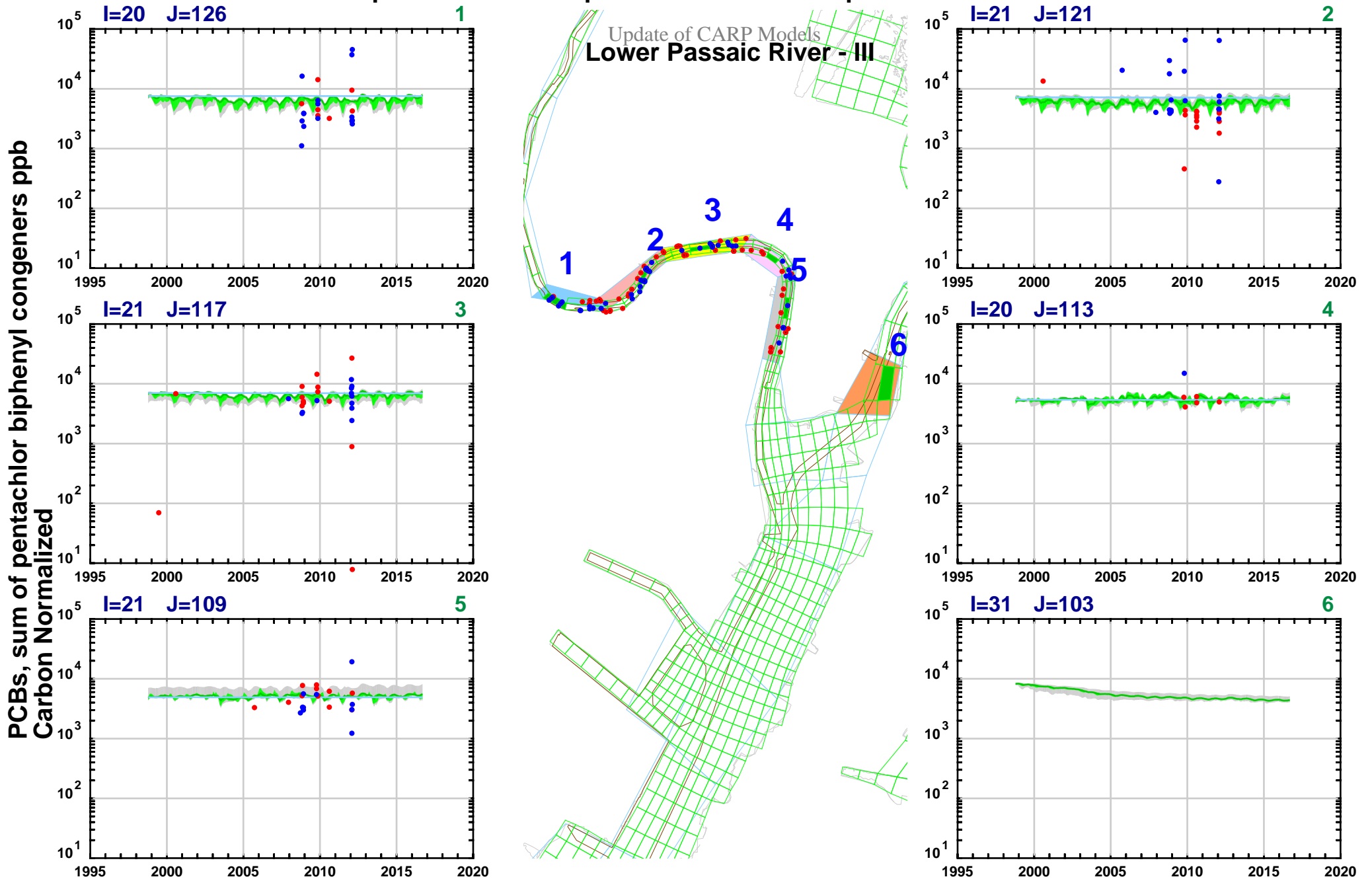
● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



RUN18\_S2

# Top 15 cm data comparison with model top 10 cm sediment

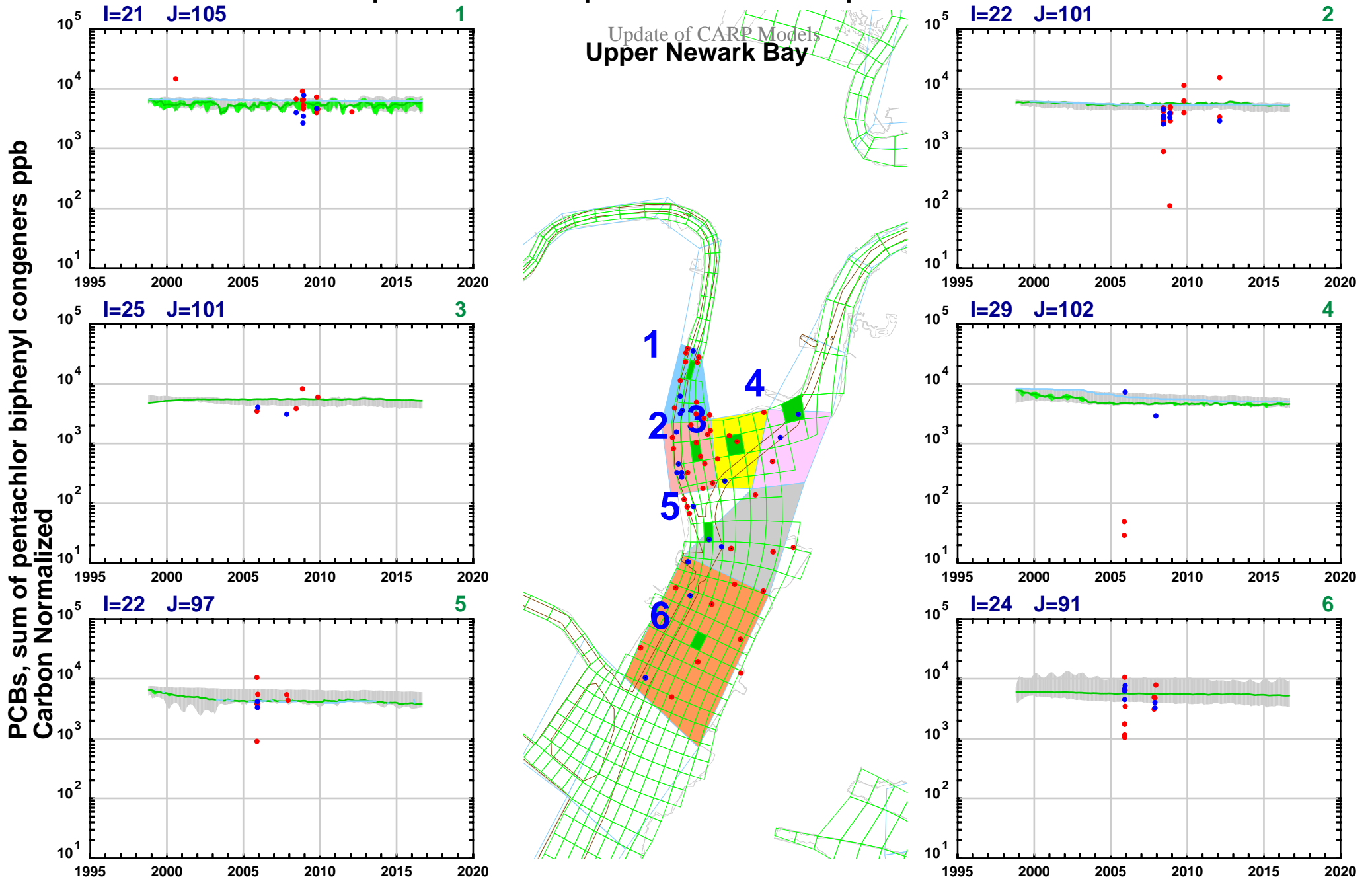


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



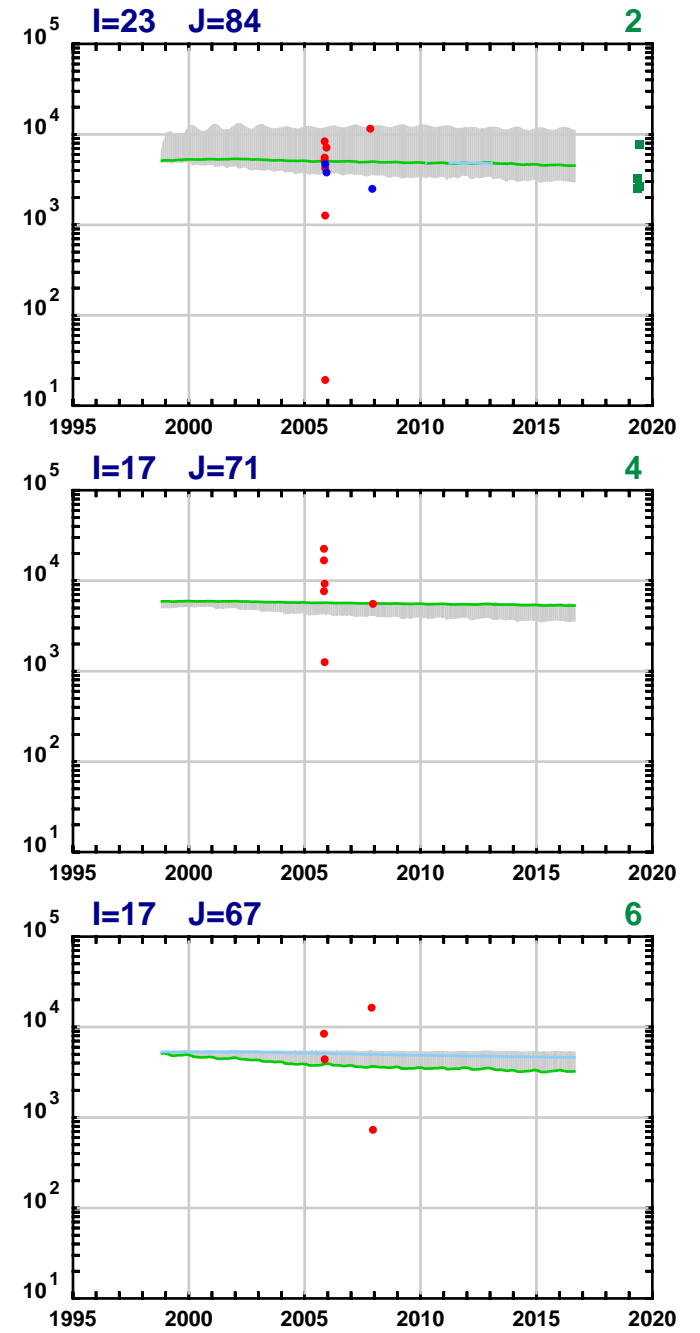
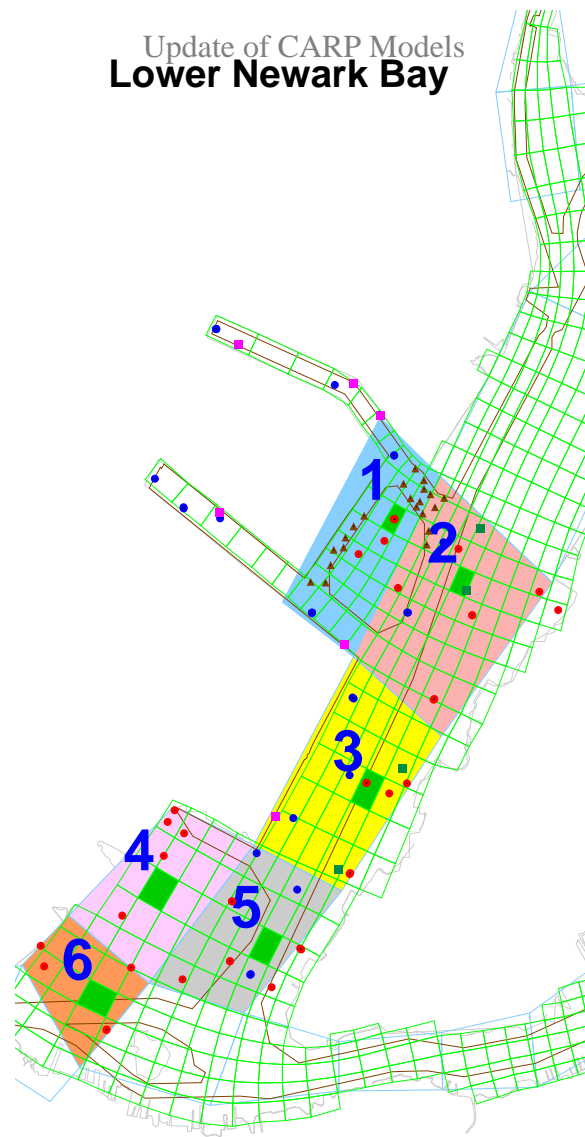
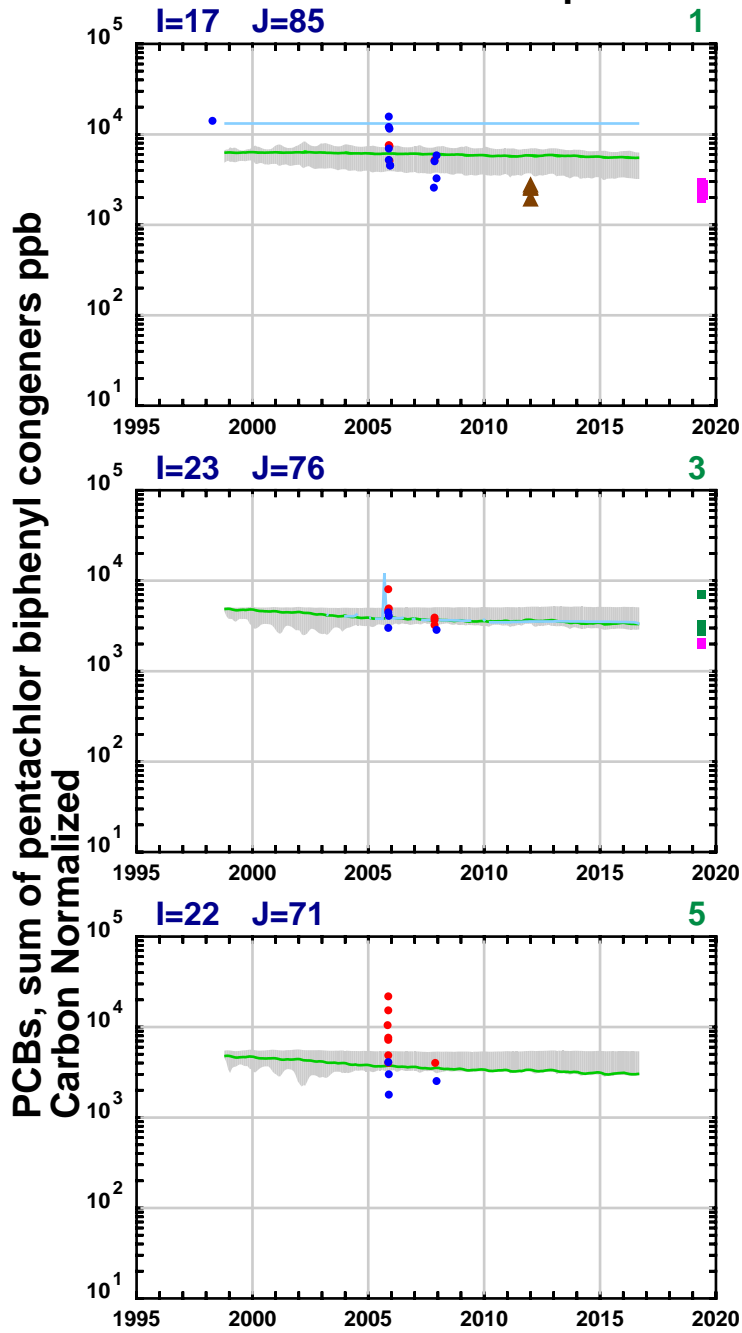
Update of CARP Models  
Upper Newark Bay

RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



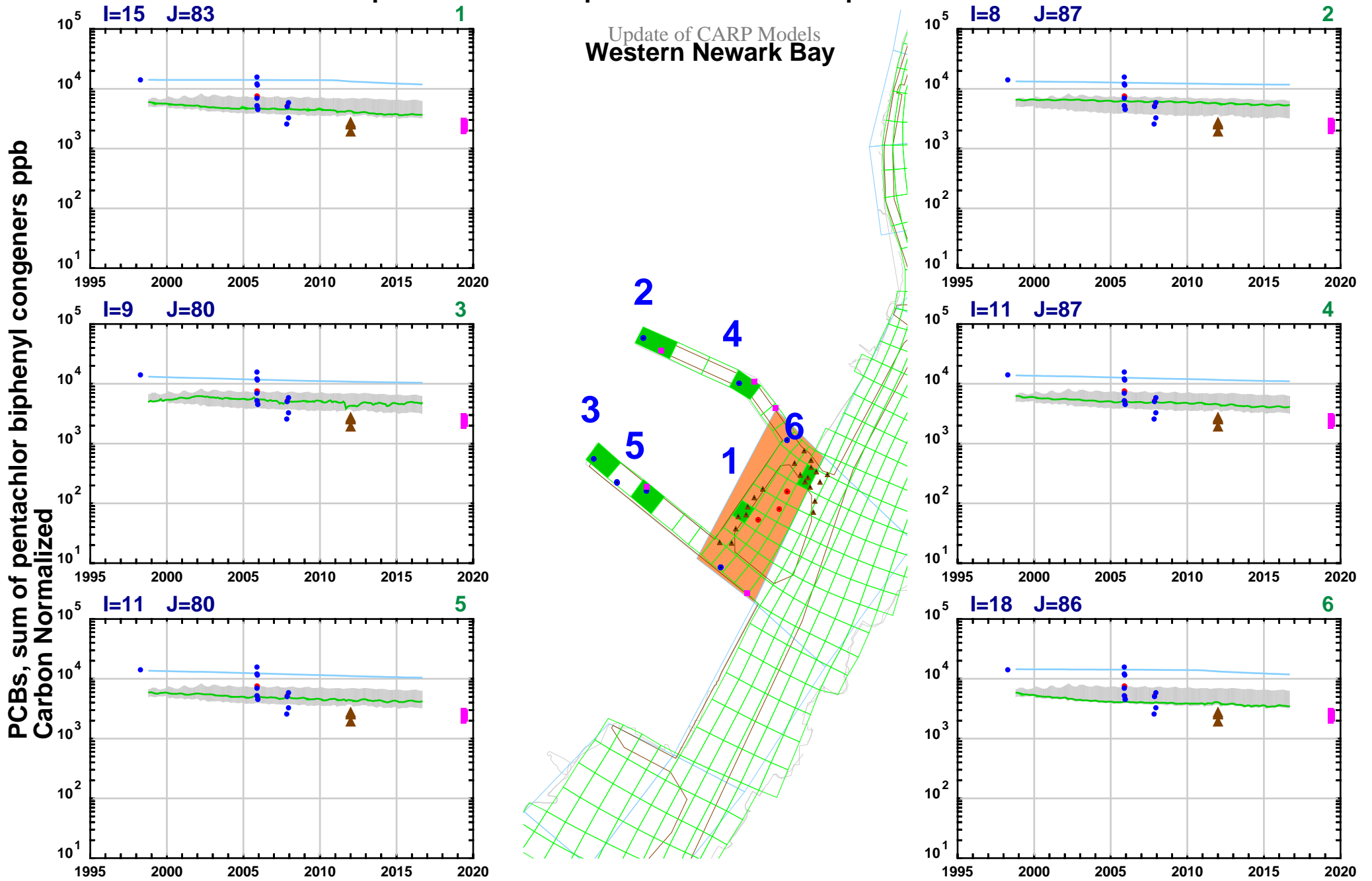
RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay



RUN18\_S2

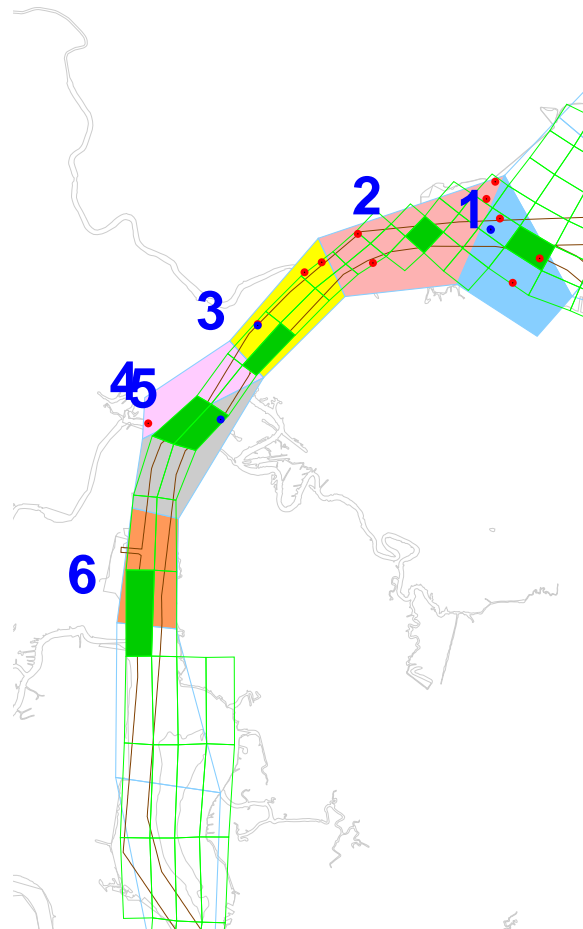
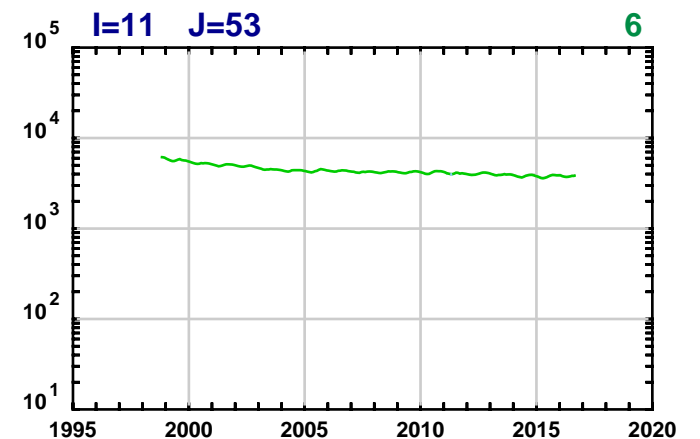
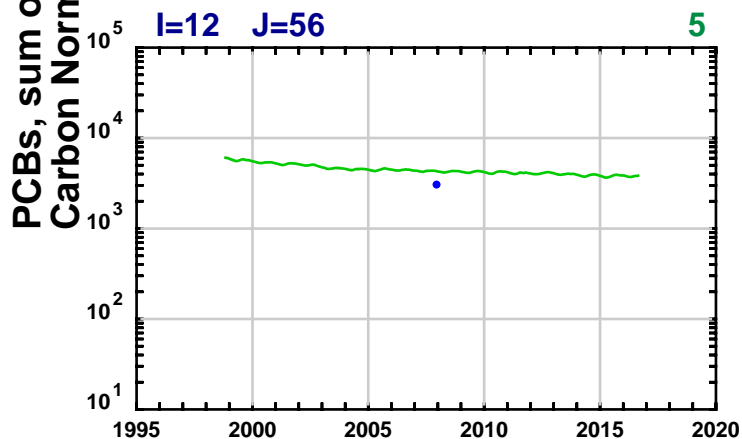
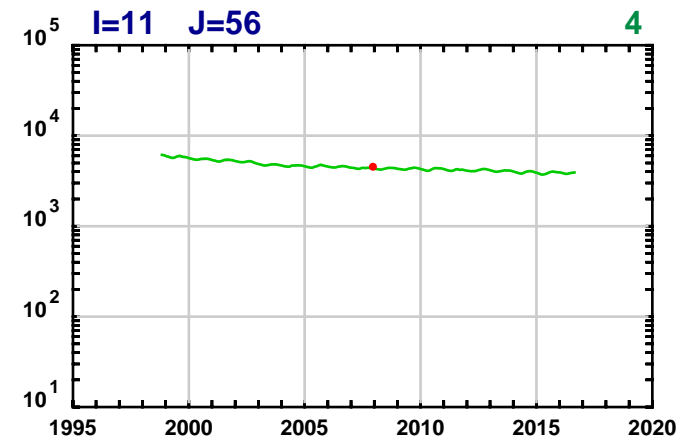
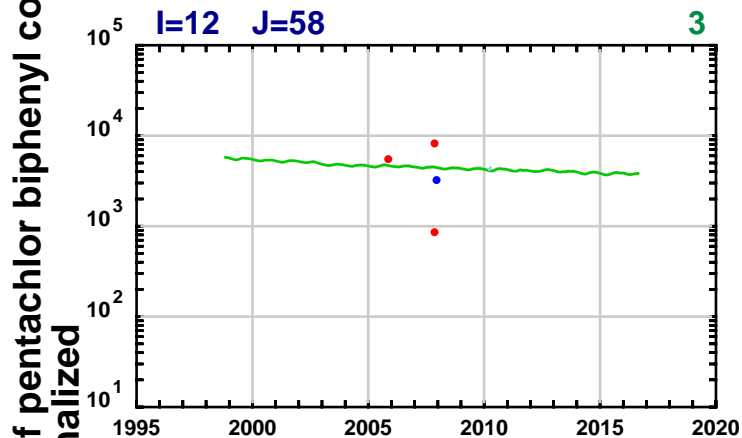
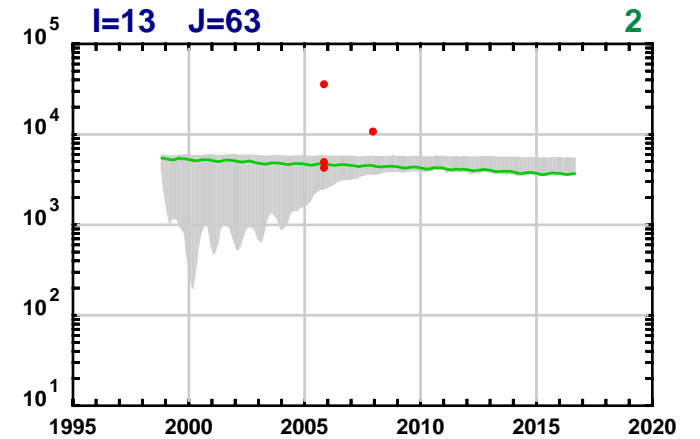
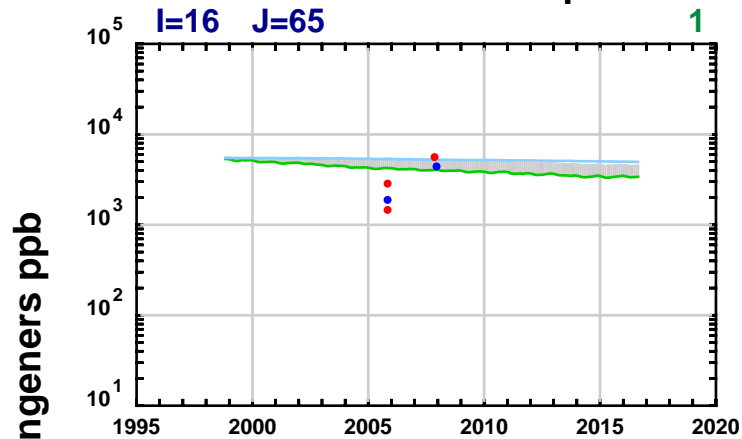
Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1



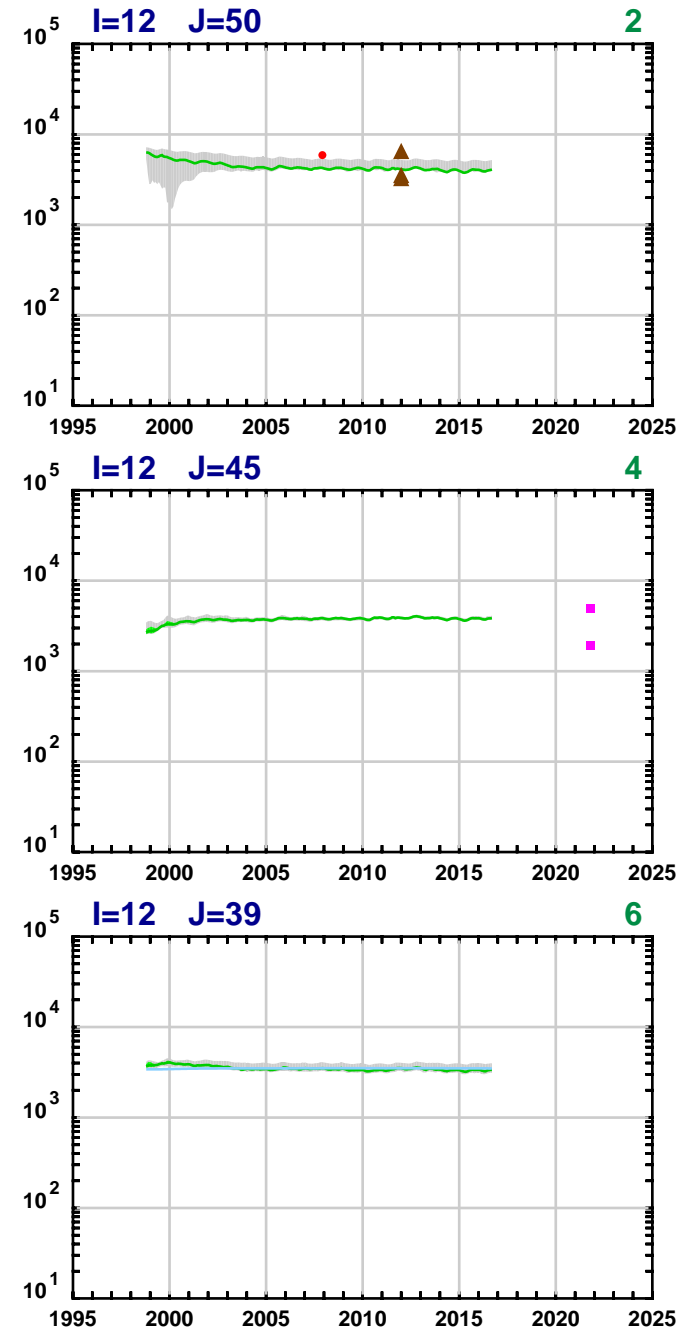
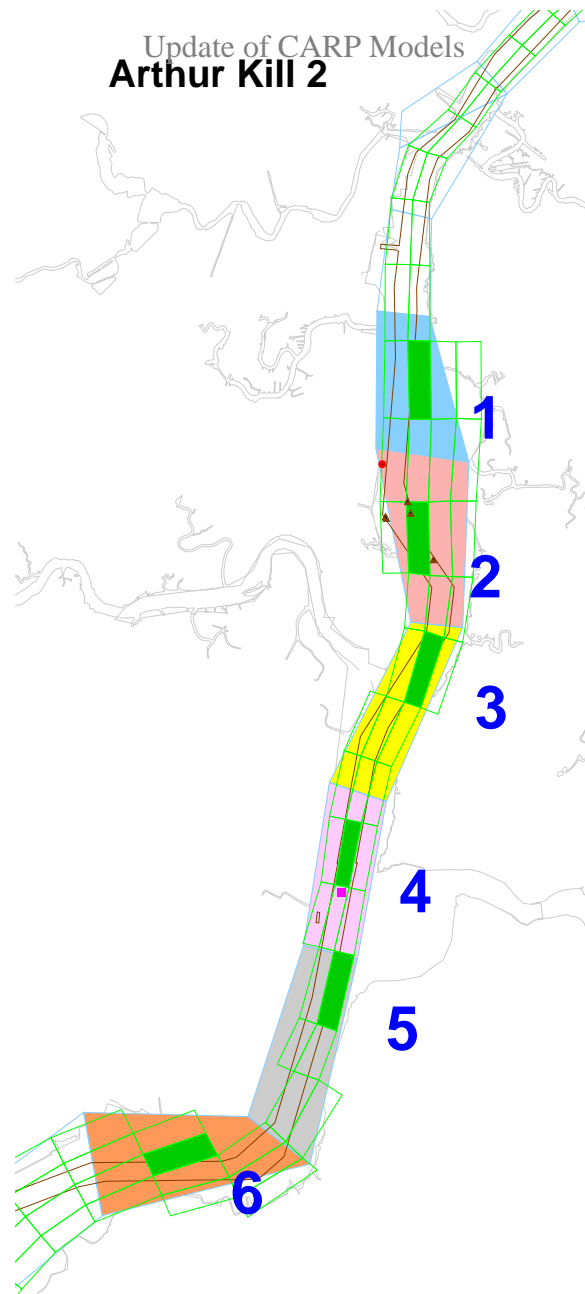
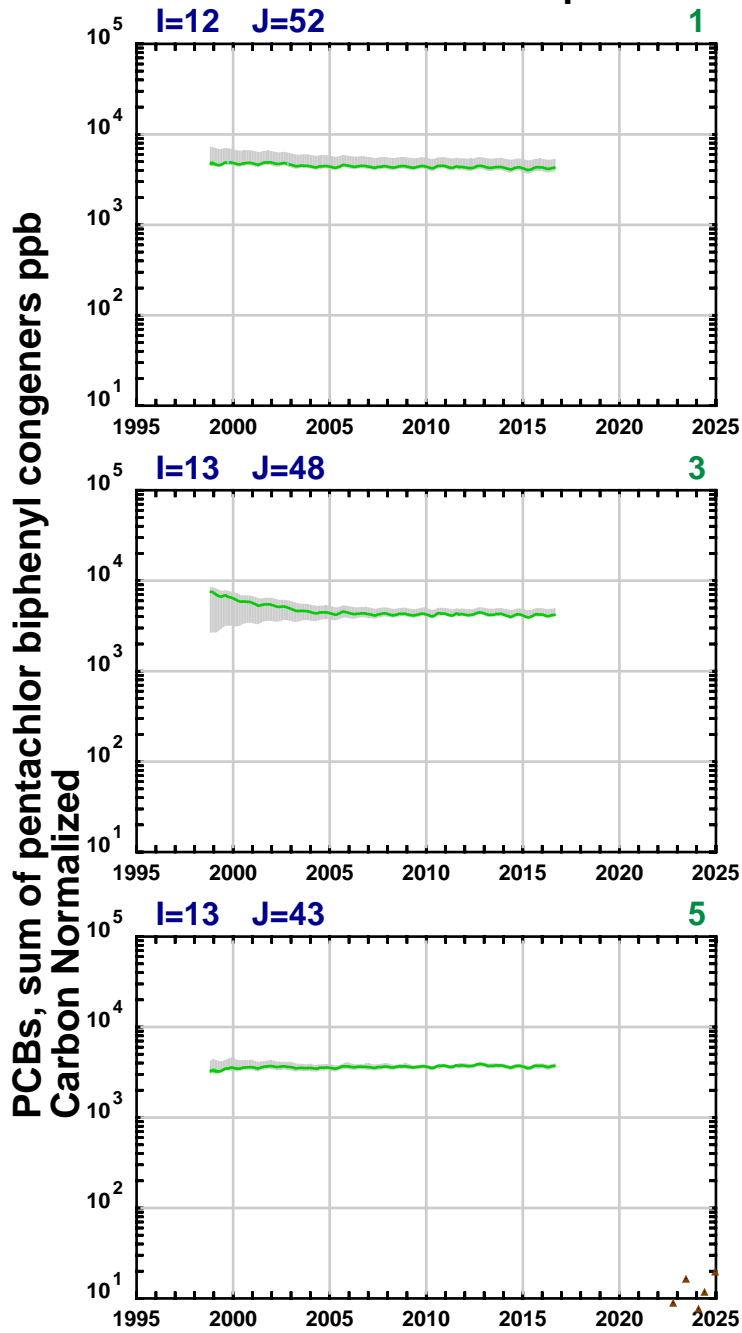
PCBs, sum of pentachloro biphenyl congeners ppb  
Carbon Normalized

RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

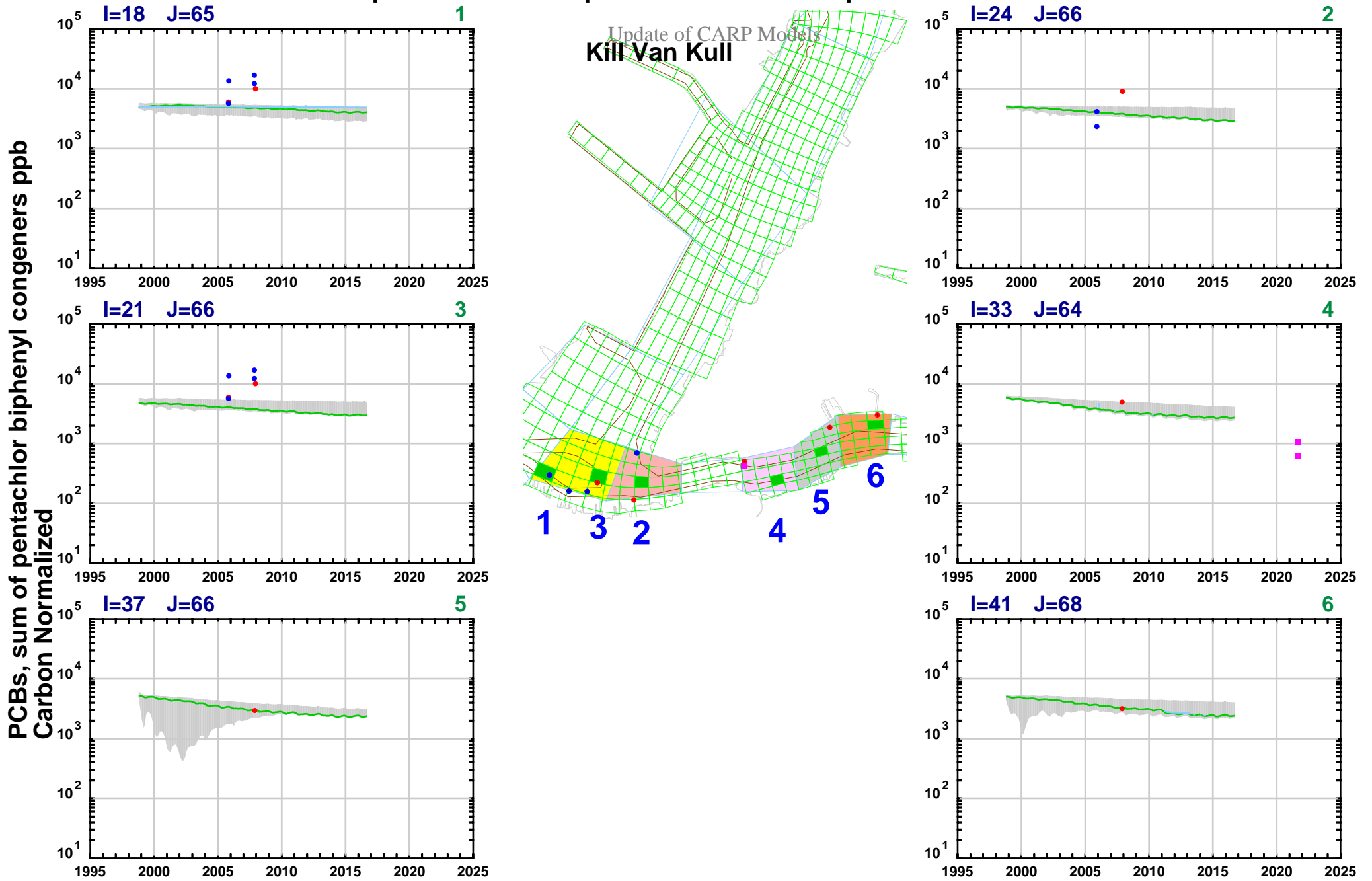


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

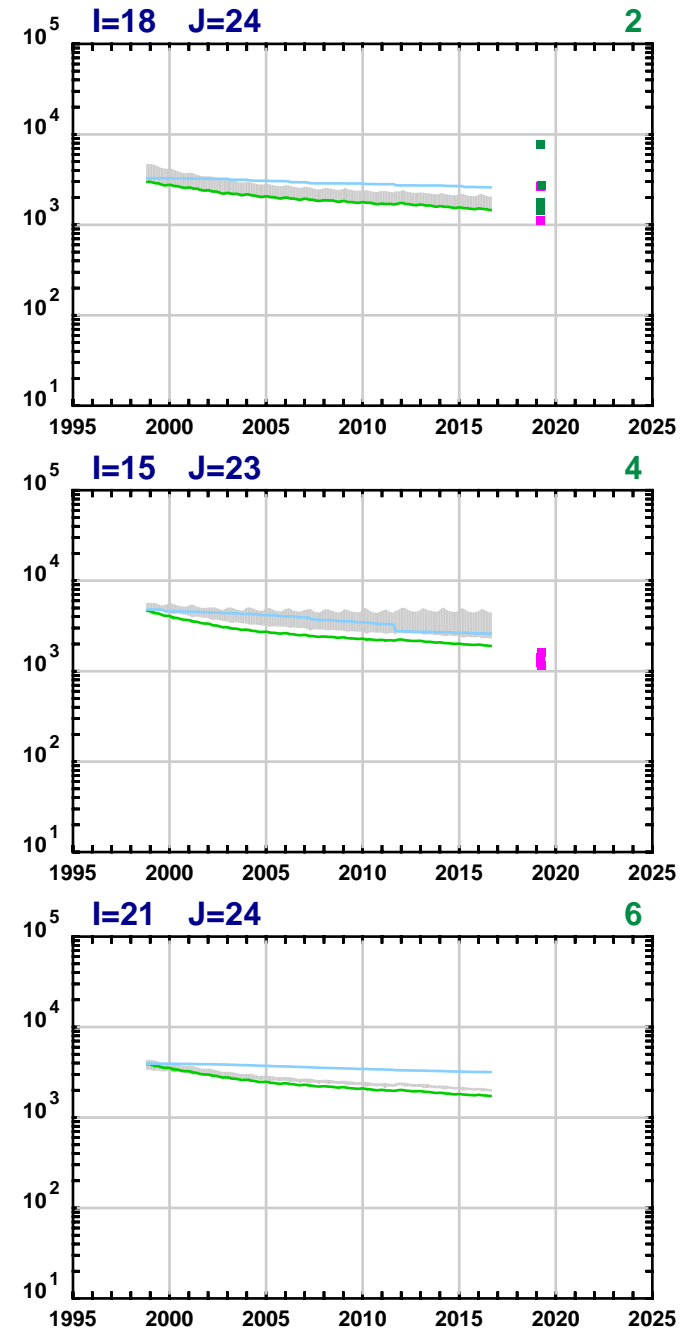
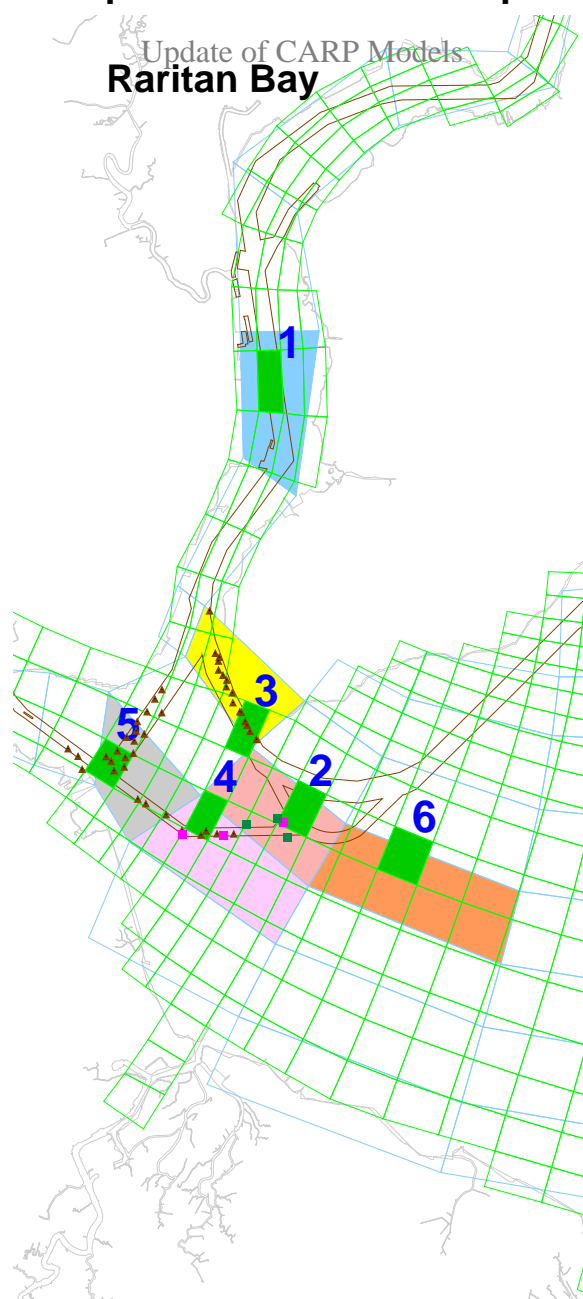
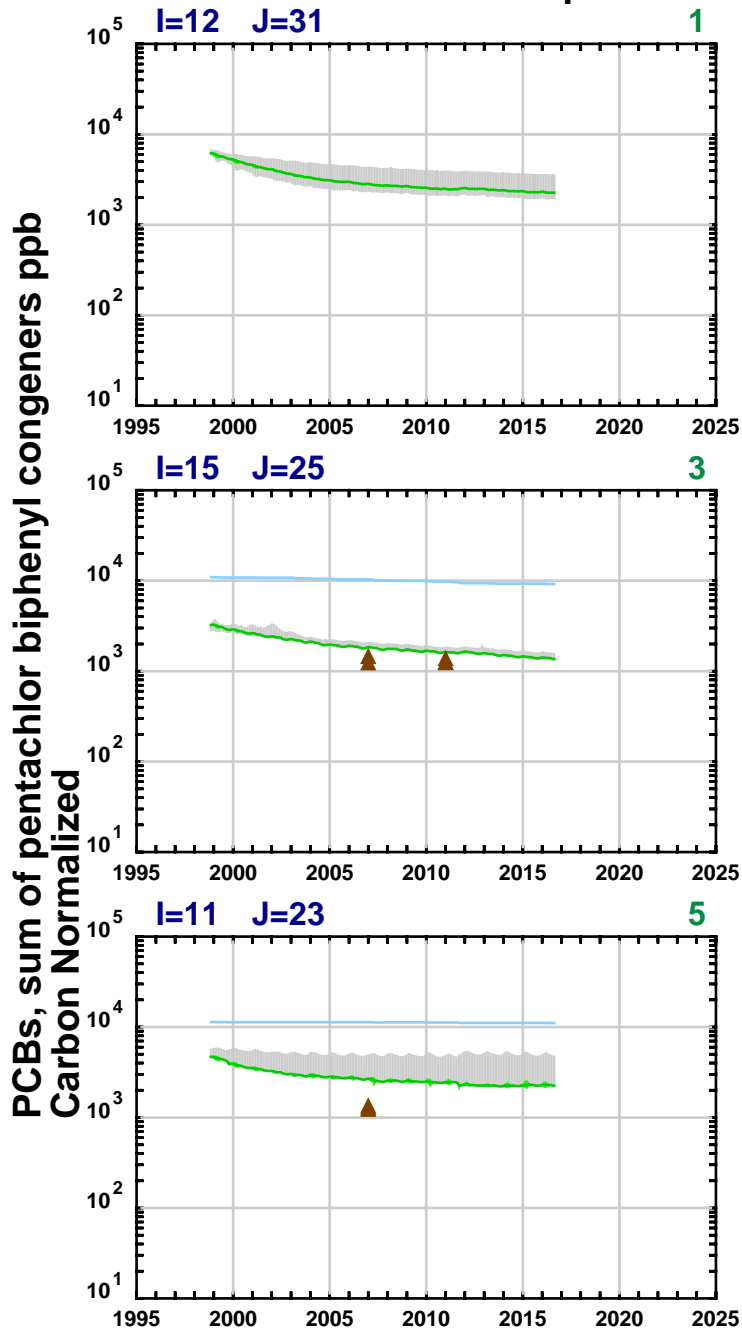


**RUN18\_S2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

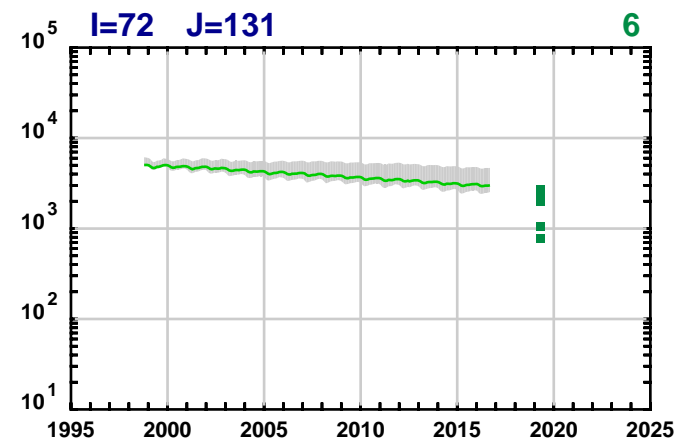
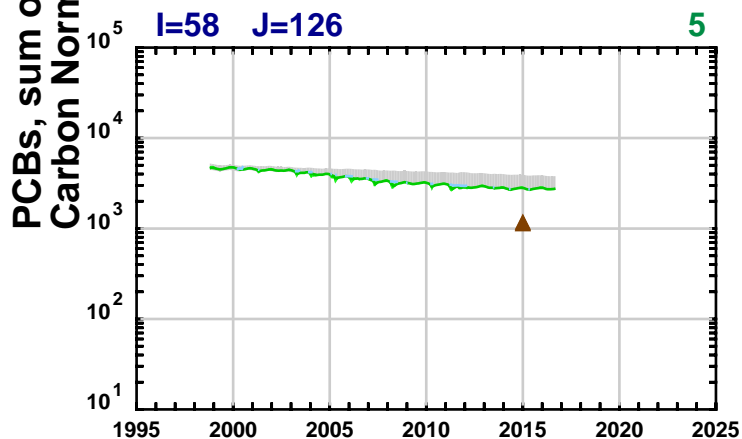
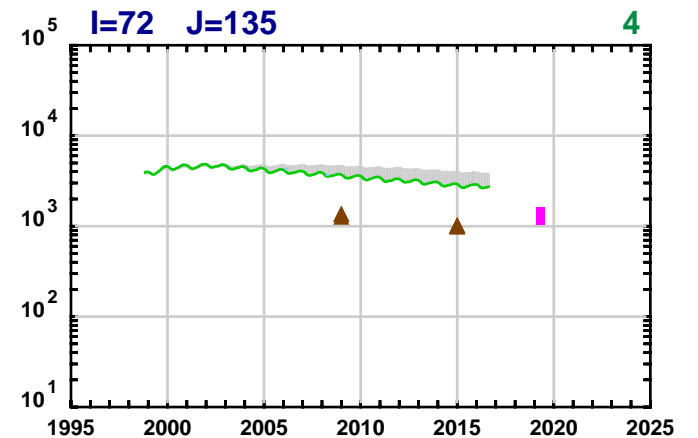
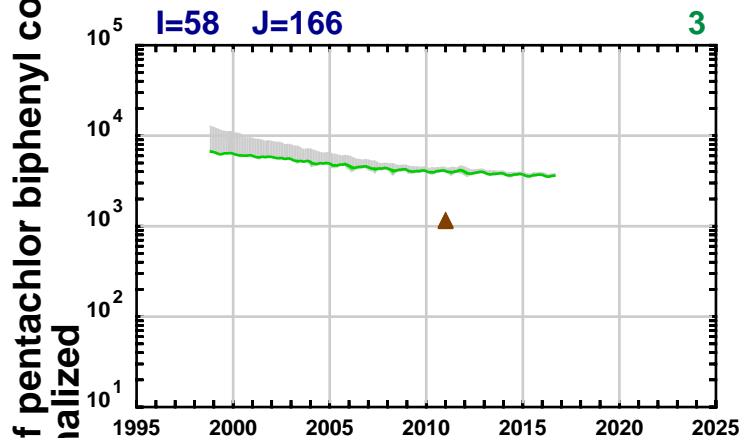
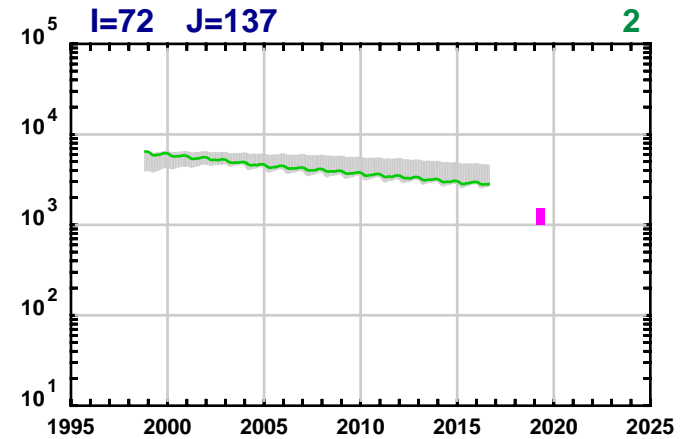
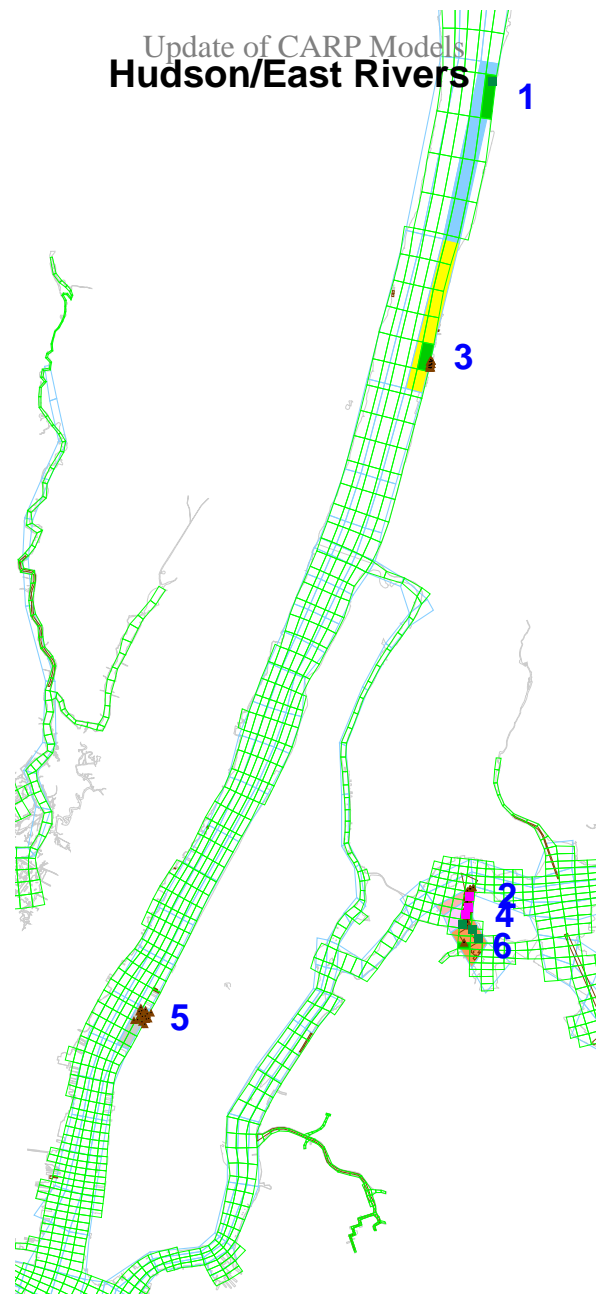
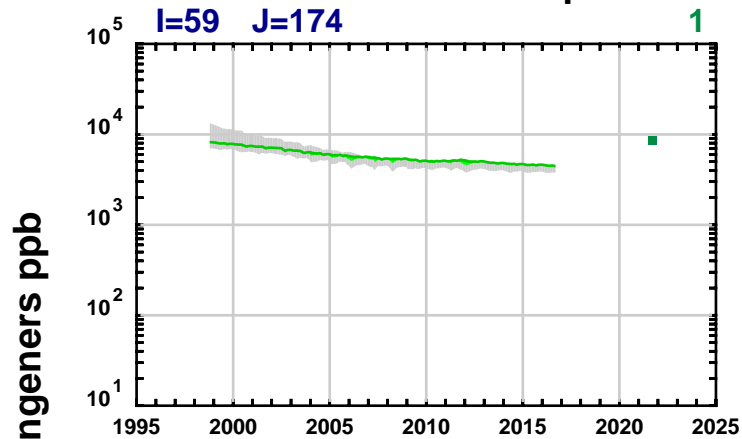


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



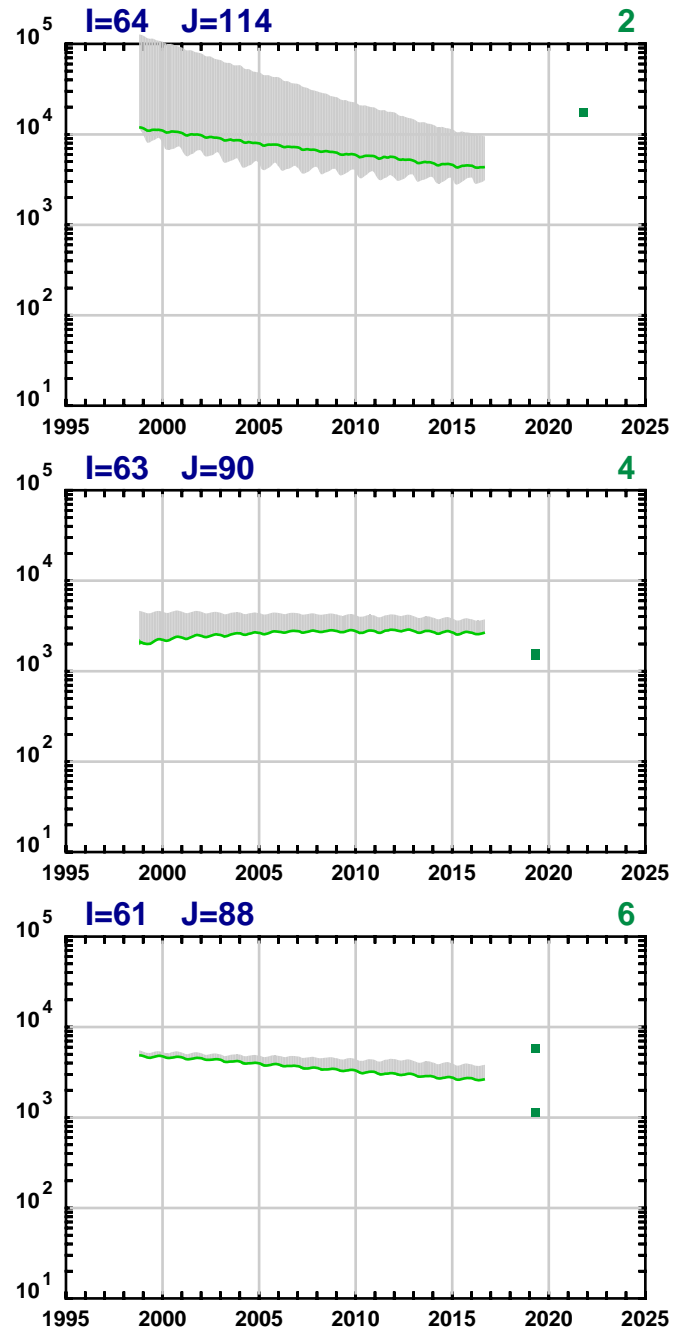
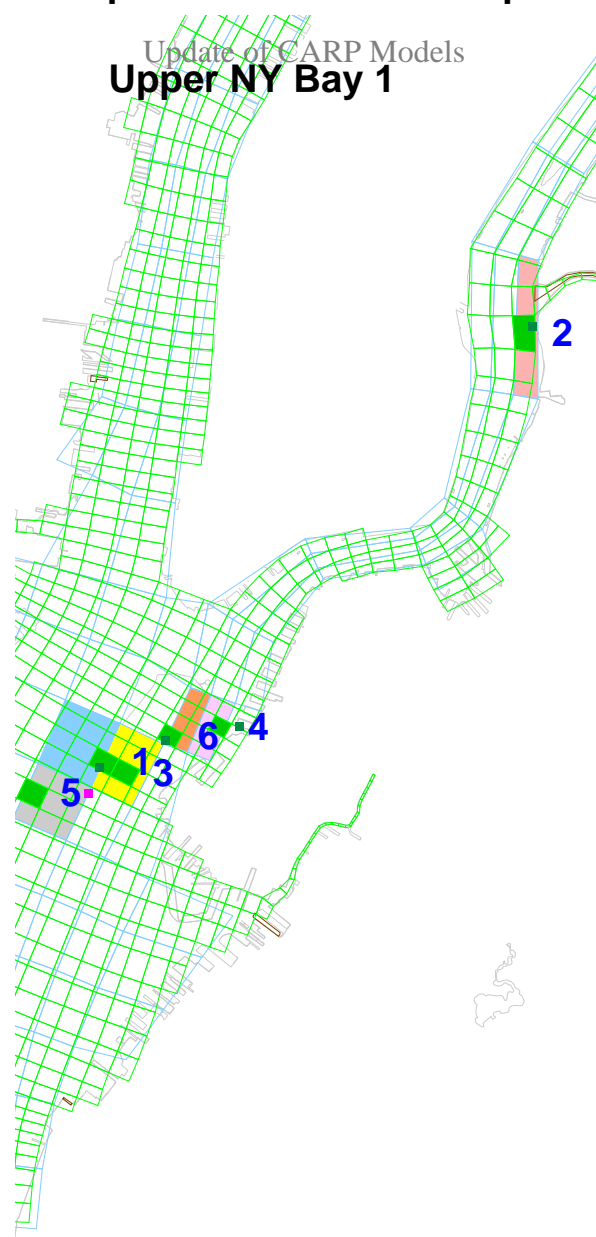
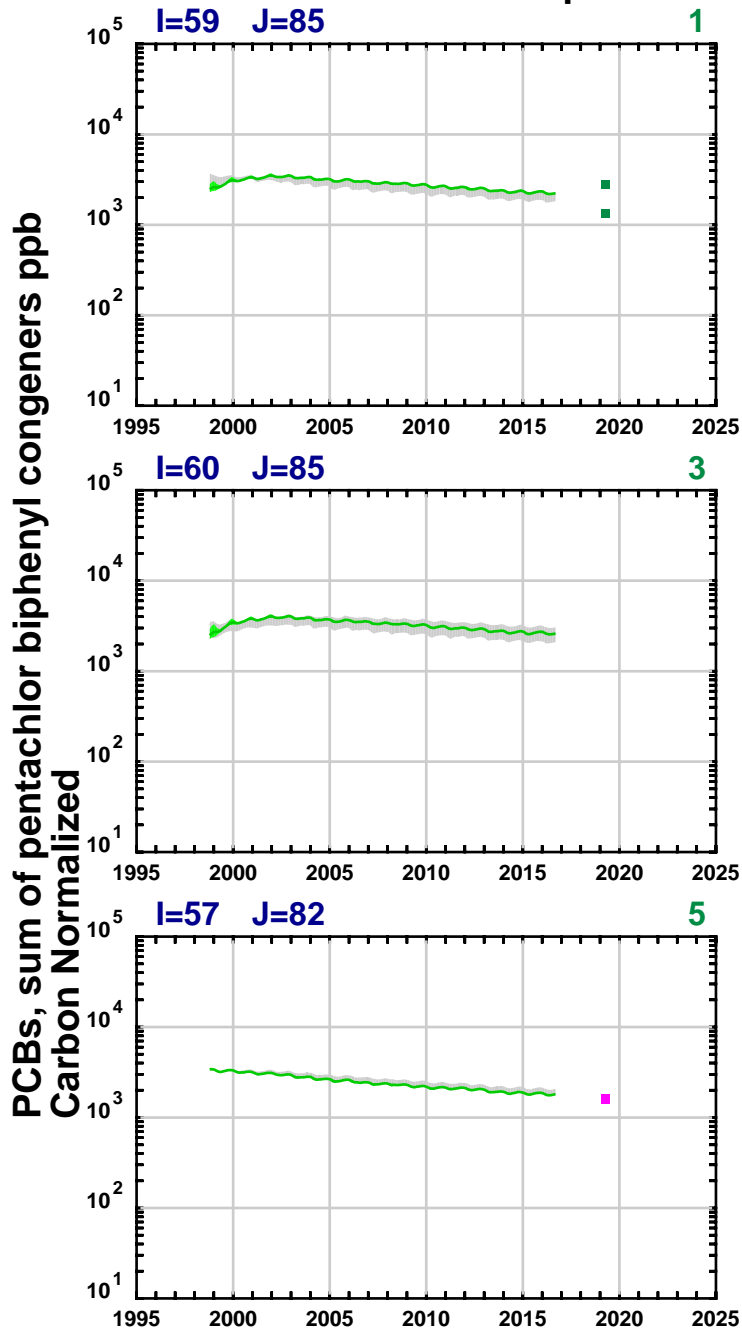
PCBs, sum of pentachloro biphenyl congeners ppb  
Carbon Normalized

RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

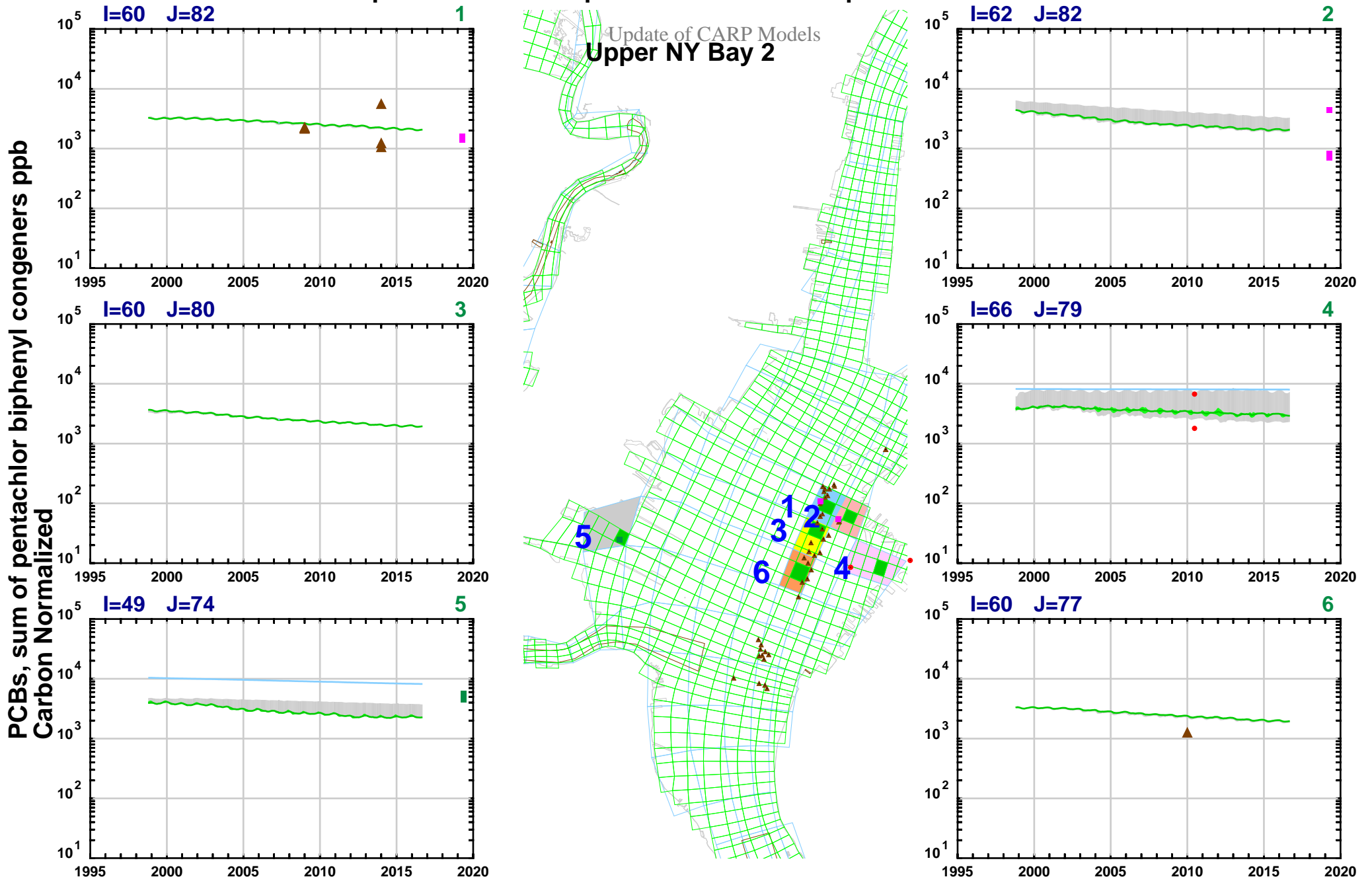


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



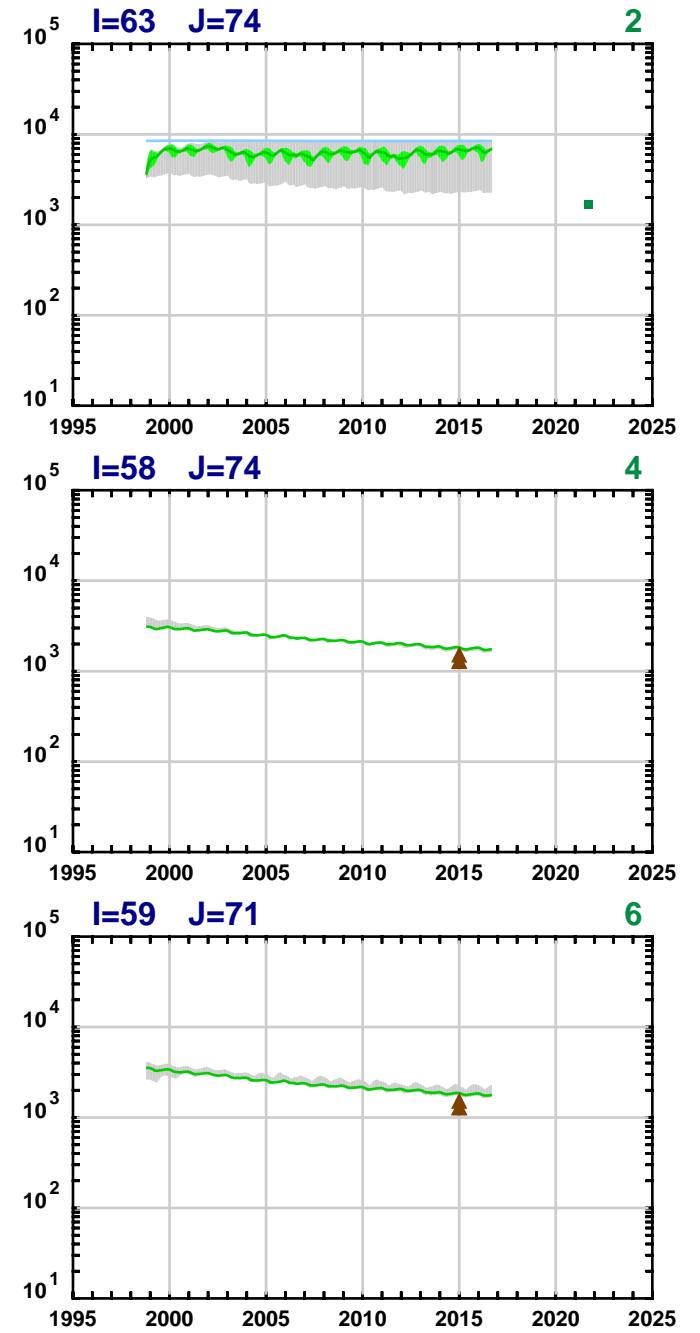
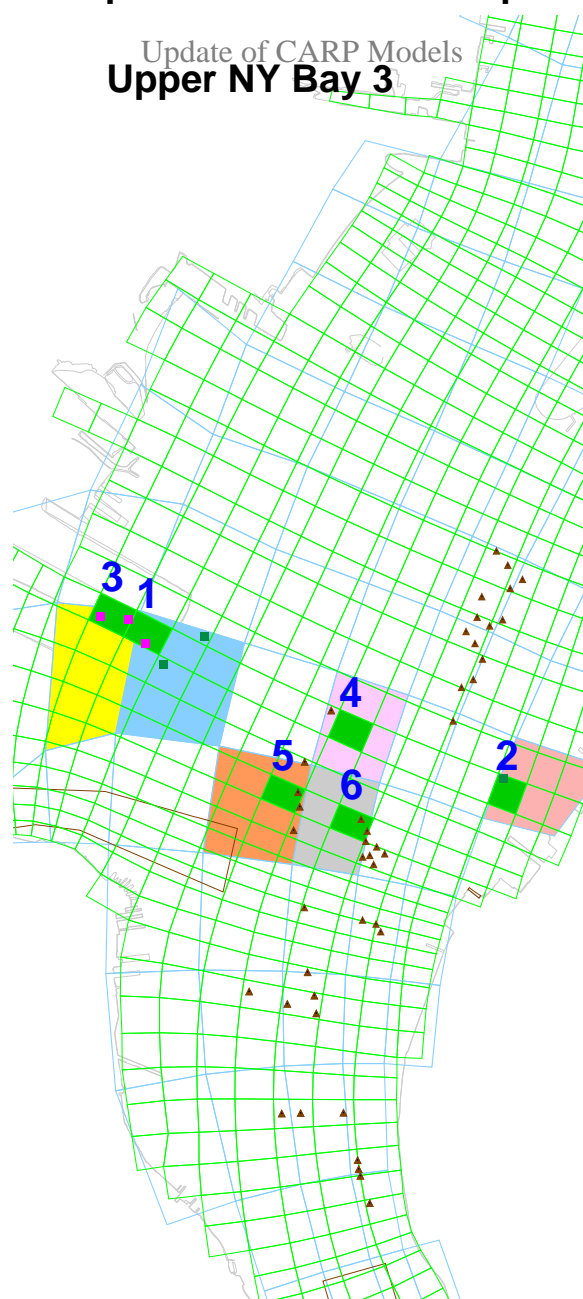
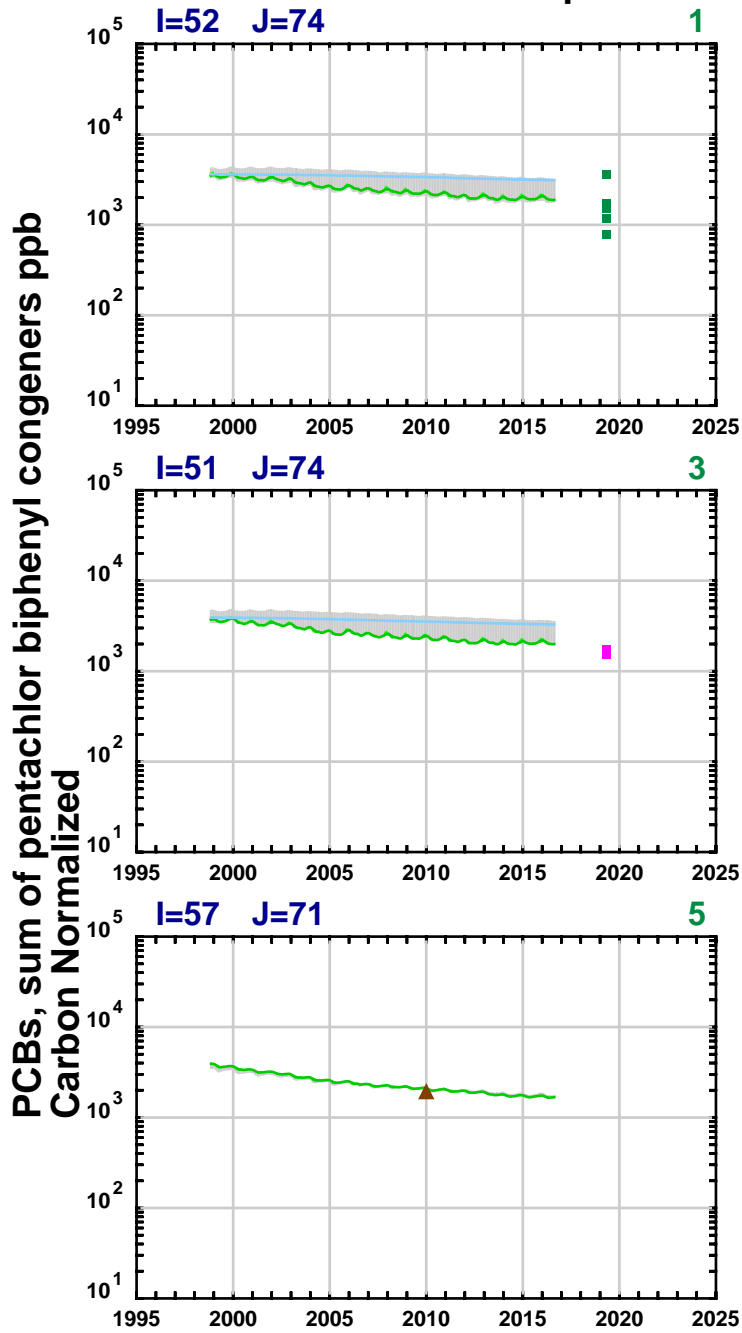
RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

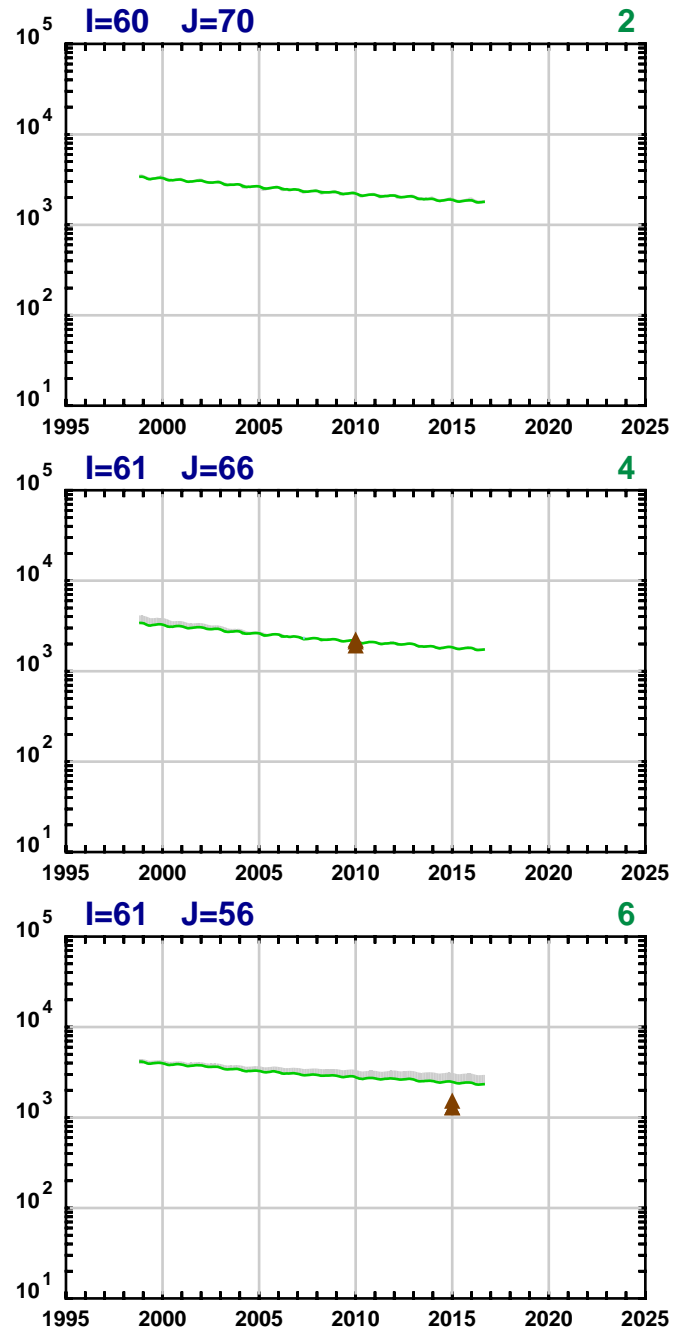
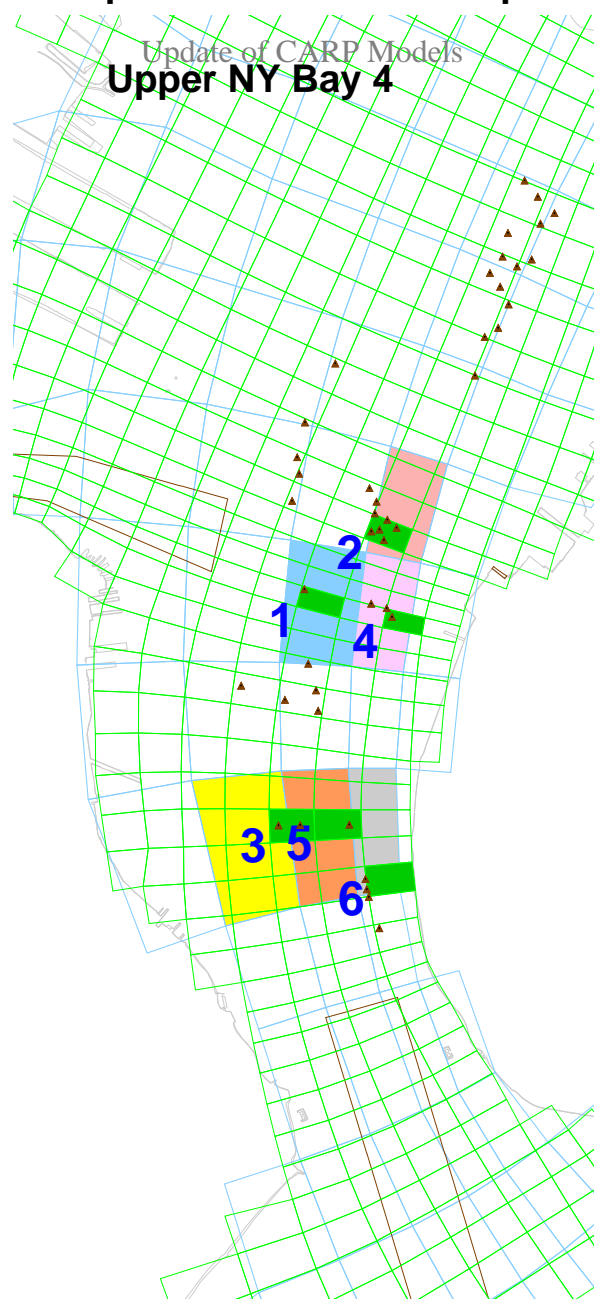
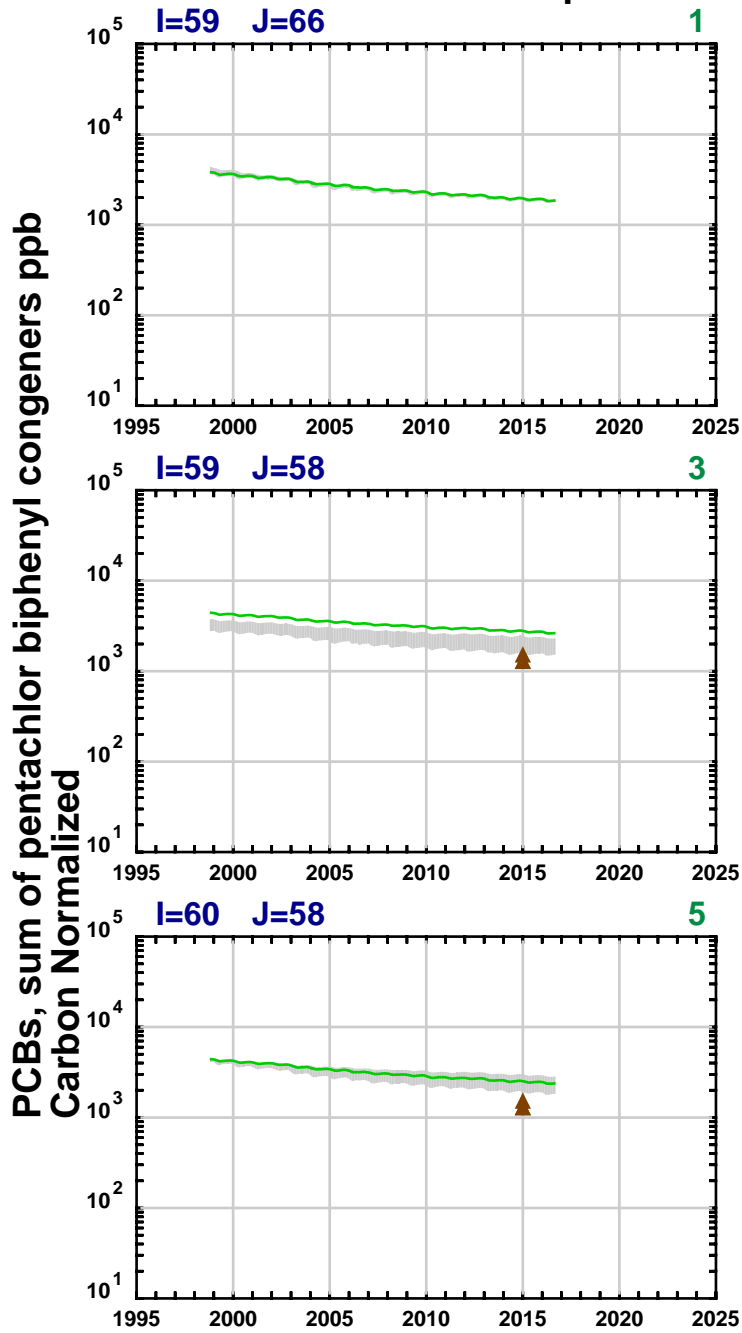


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

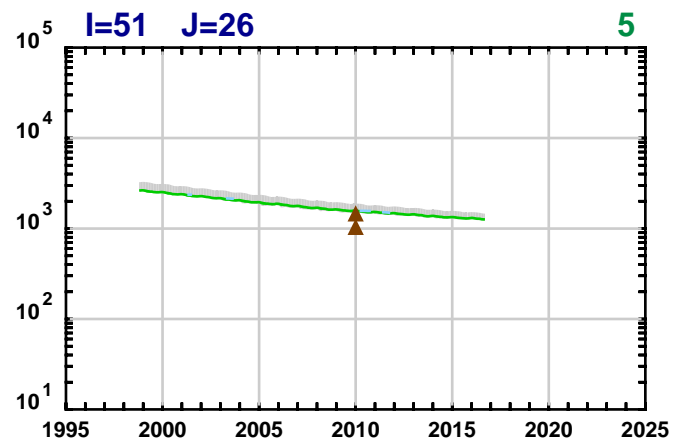
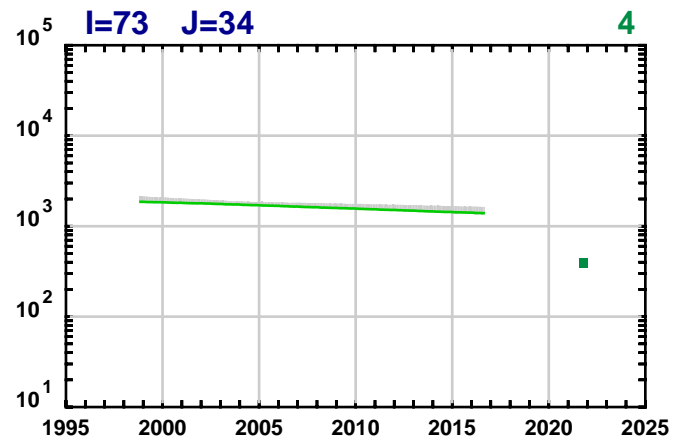
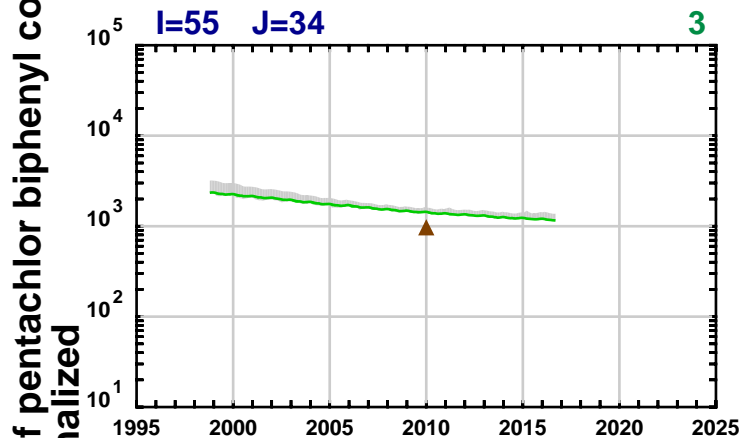
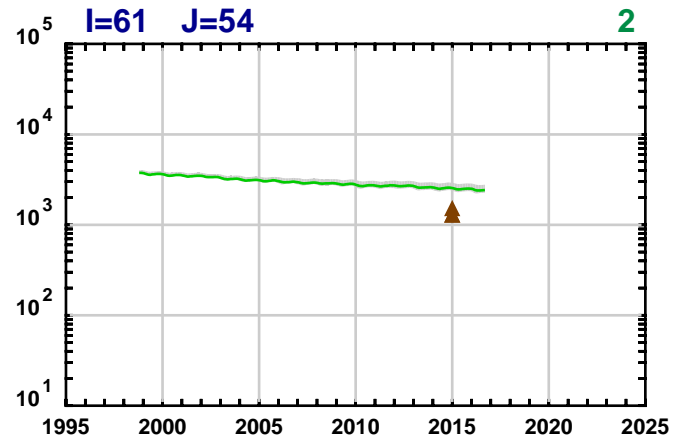
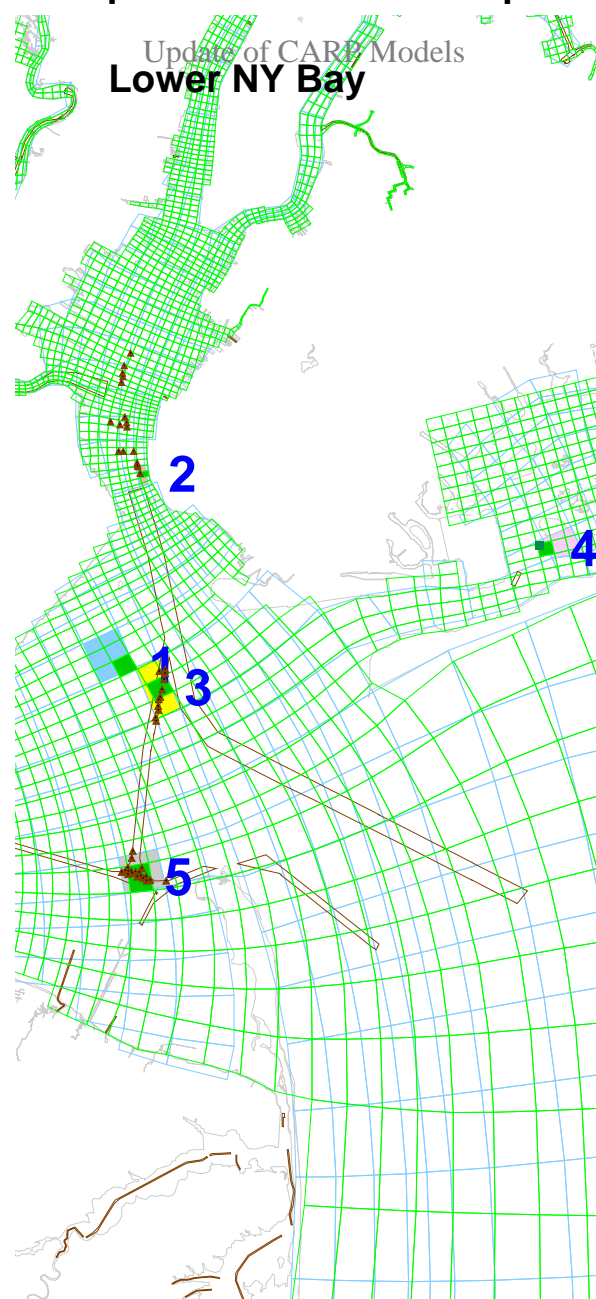
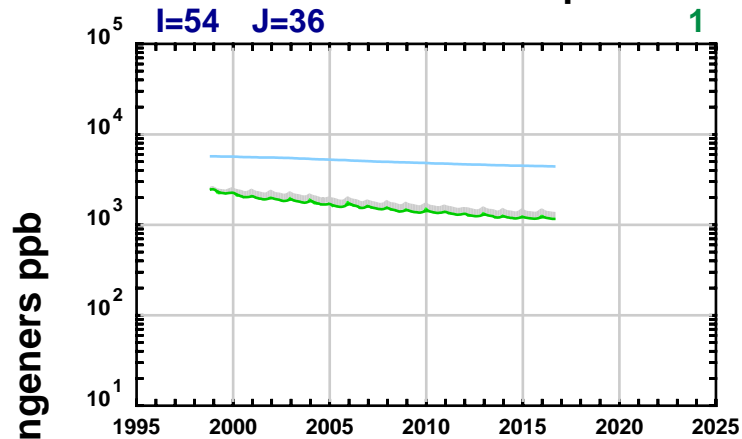


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



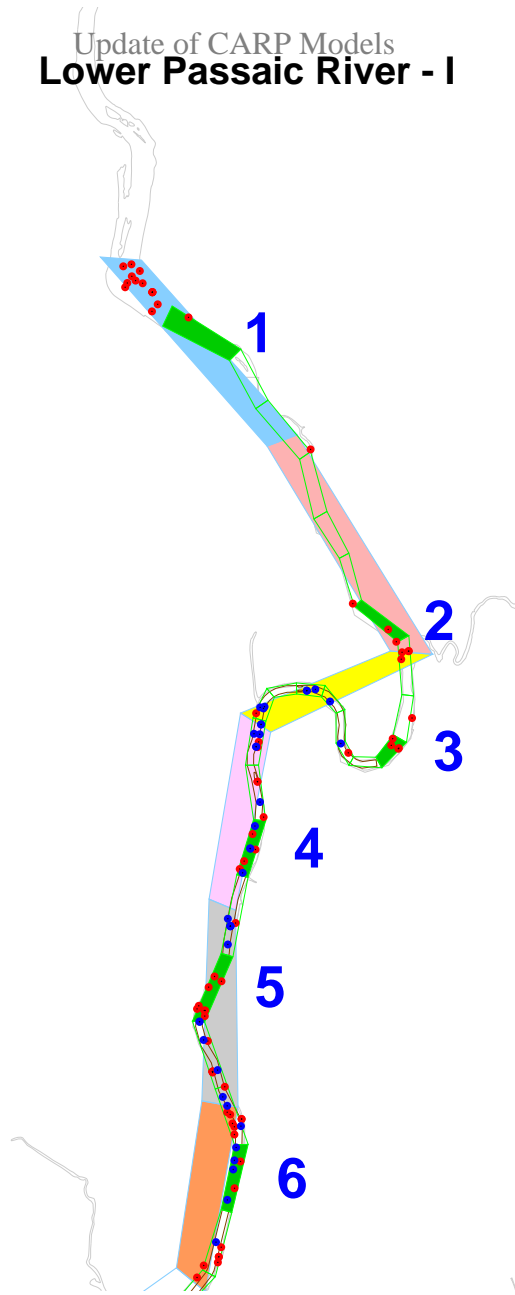
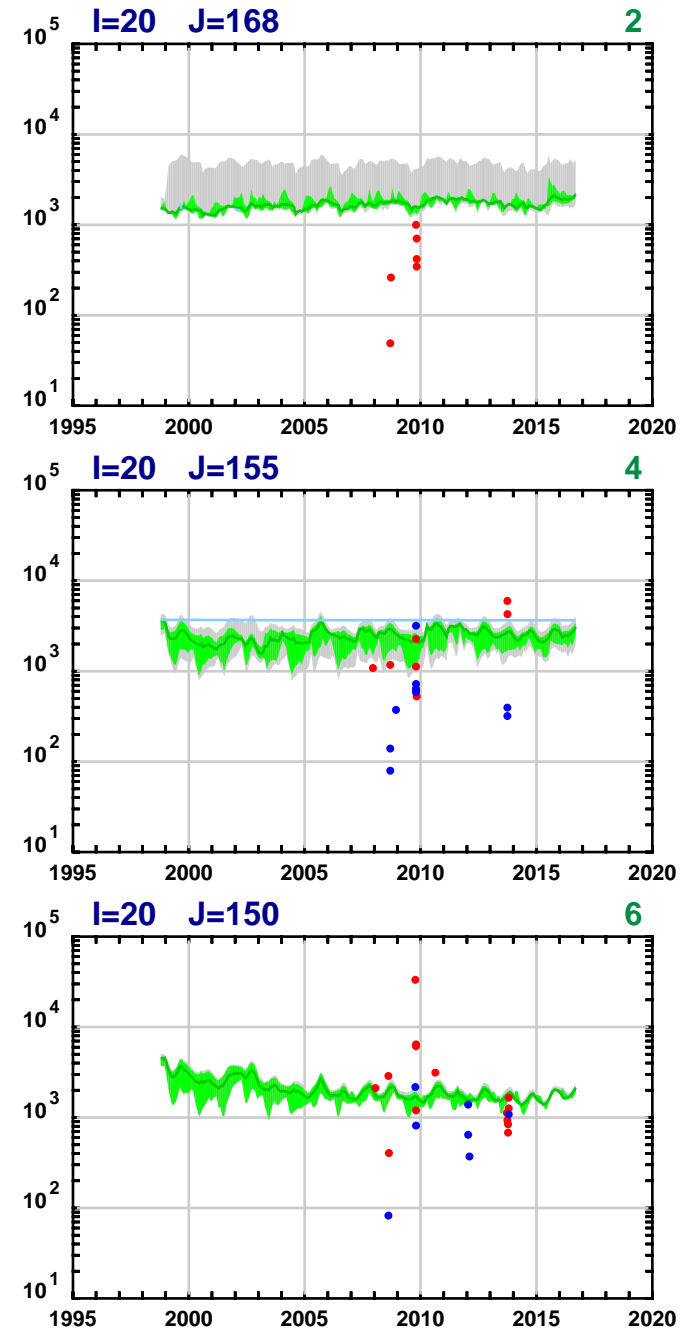
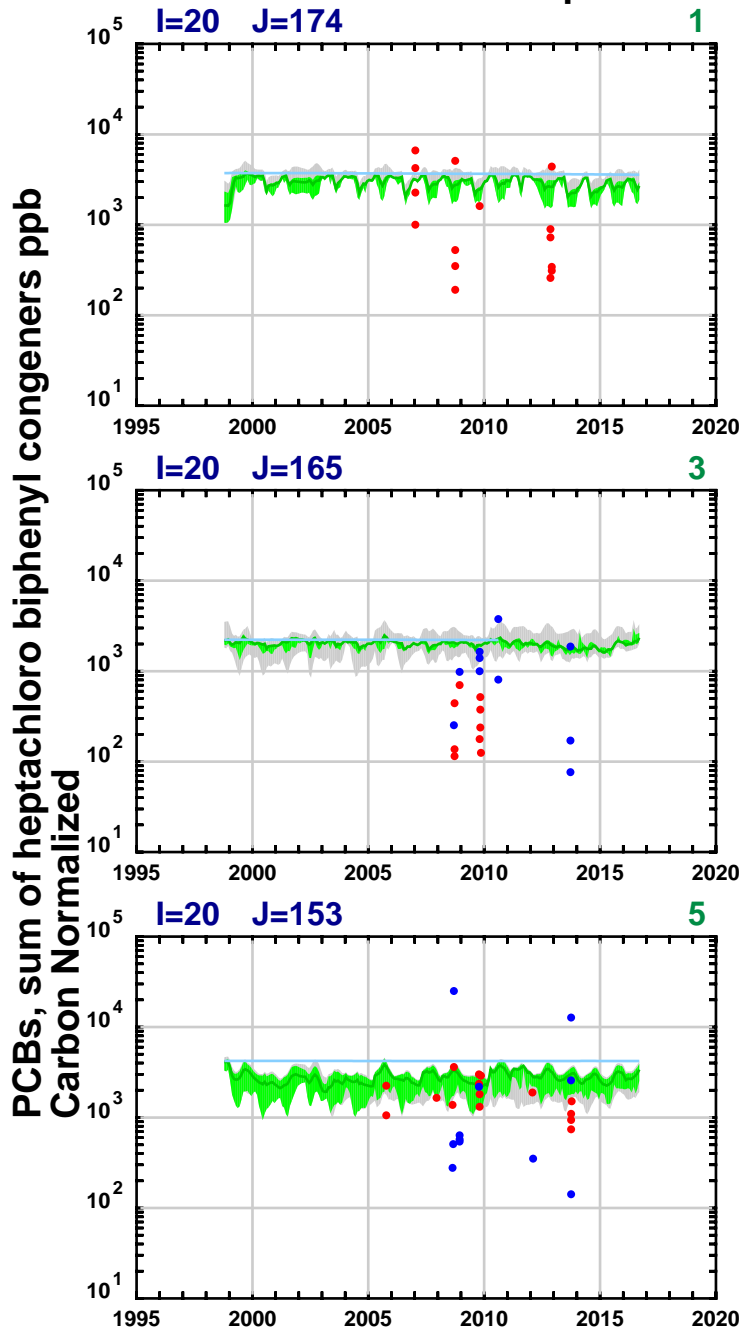
RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

## Update of CARP Models Lower Passaic River - I

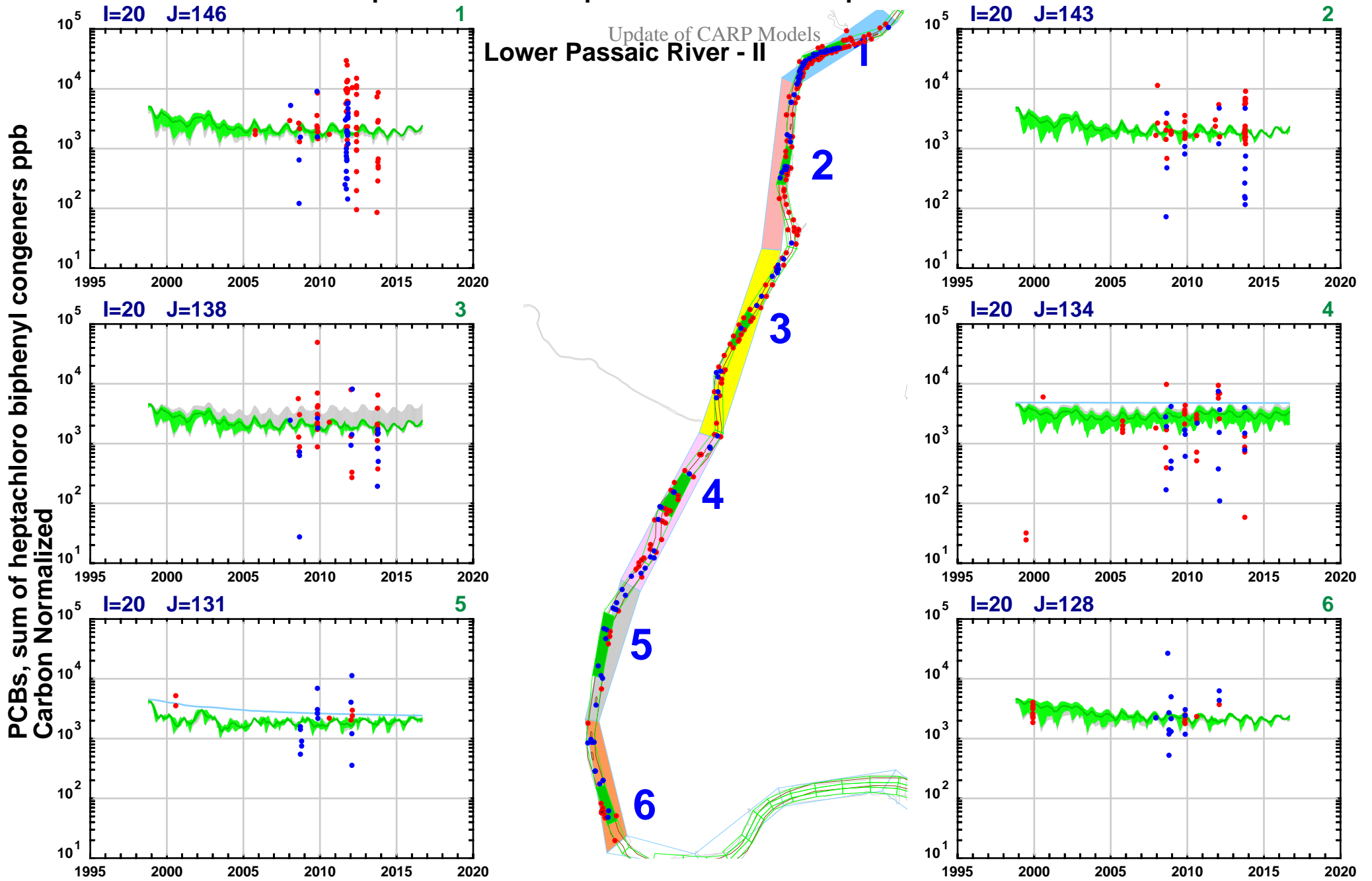


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

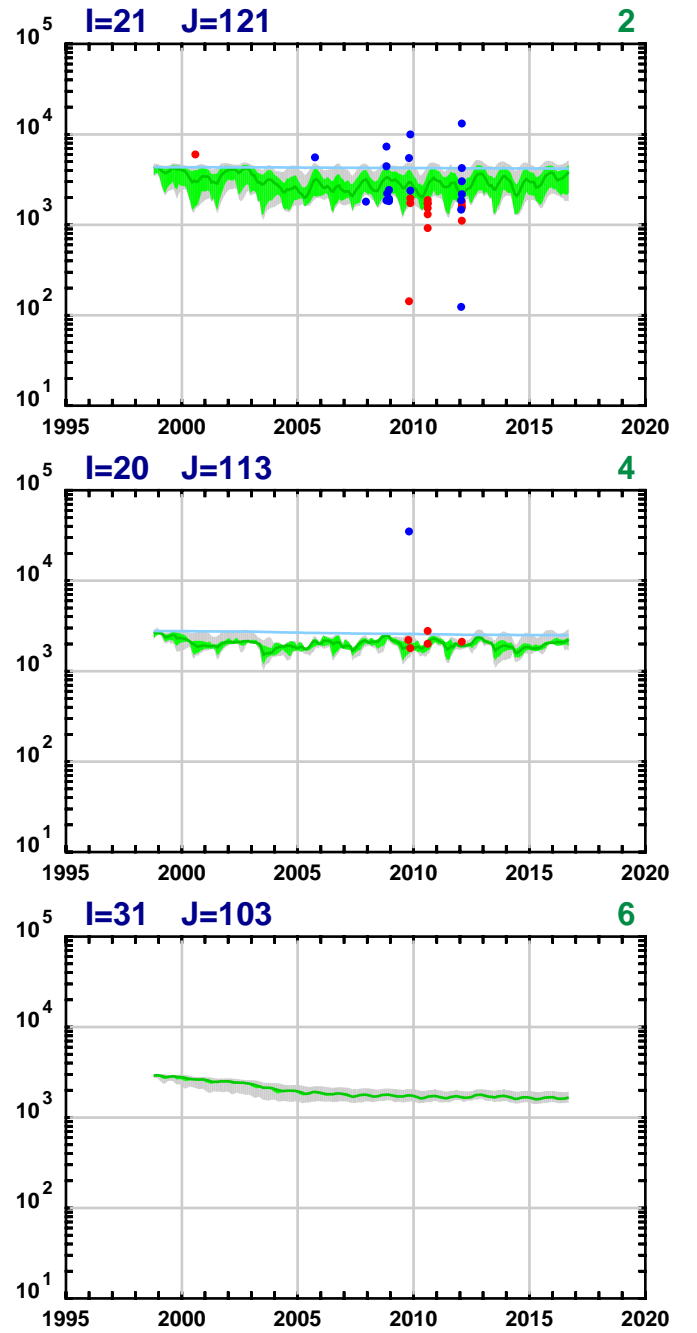
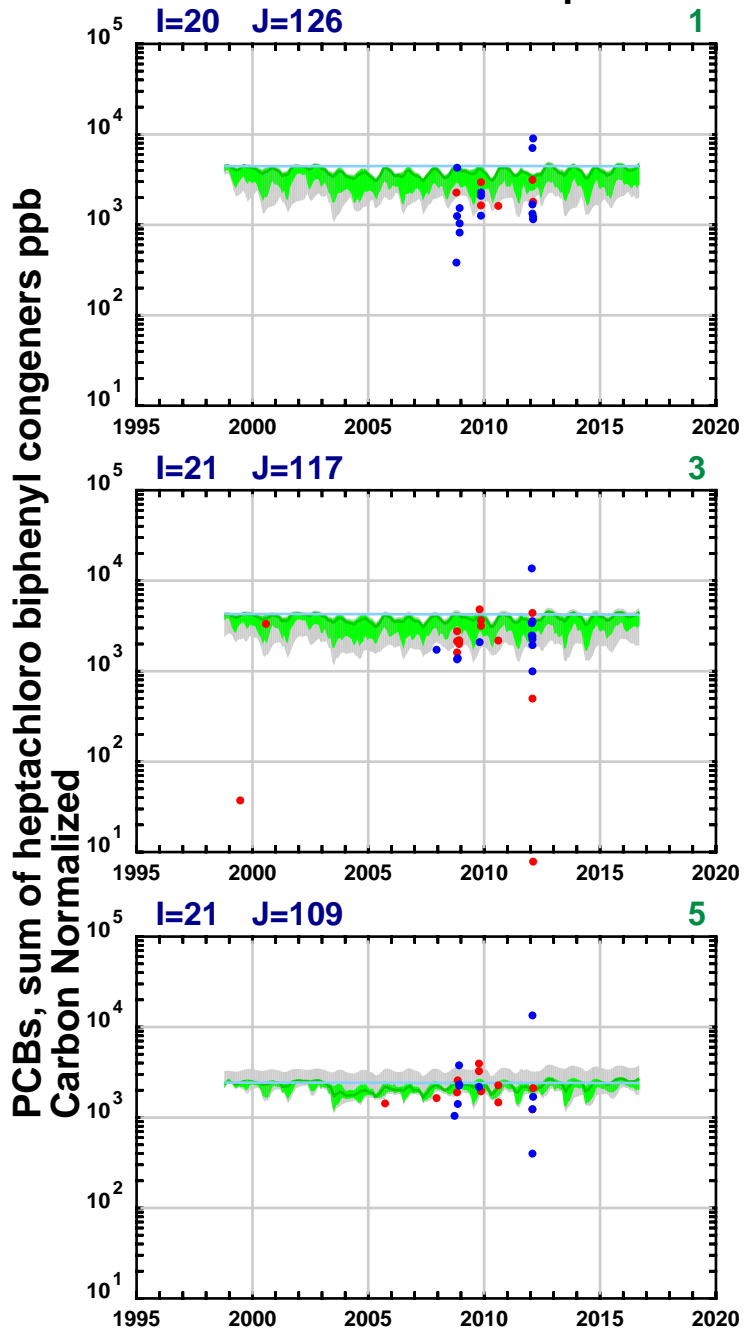


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



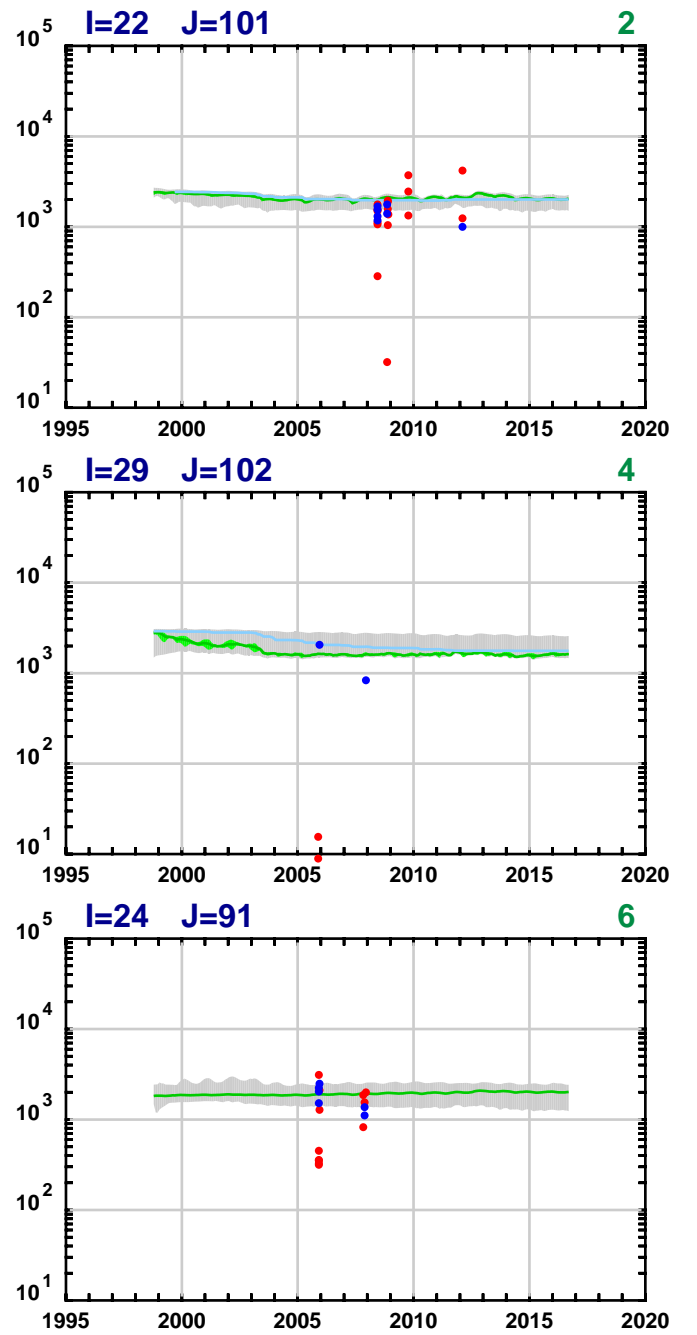
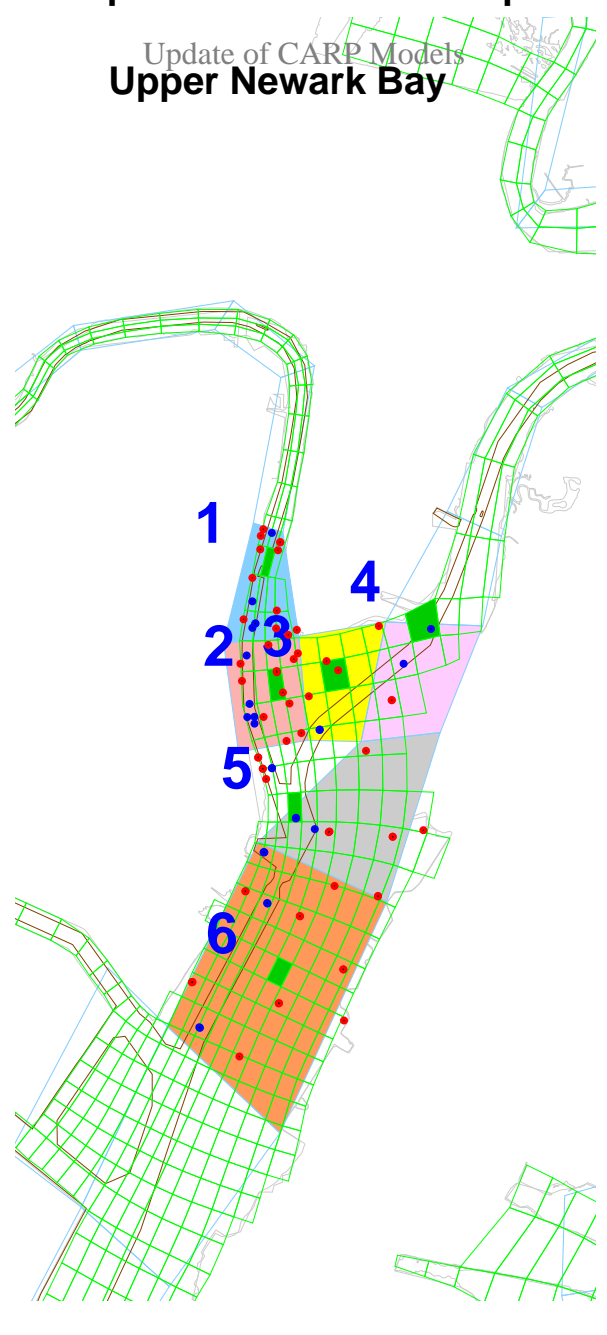
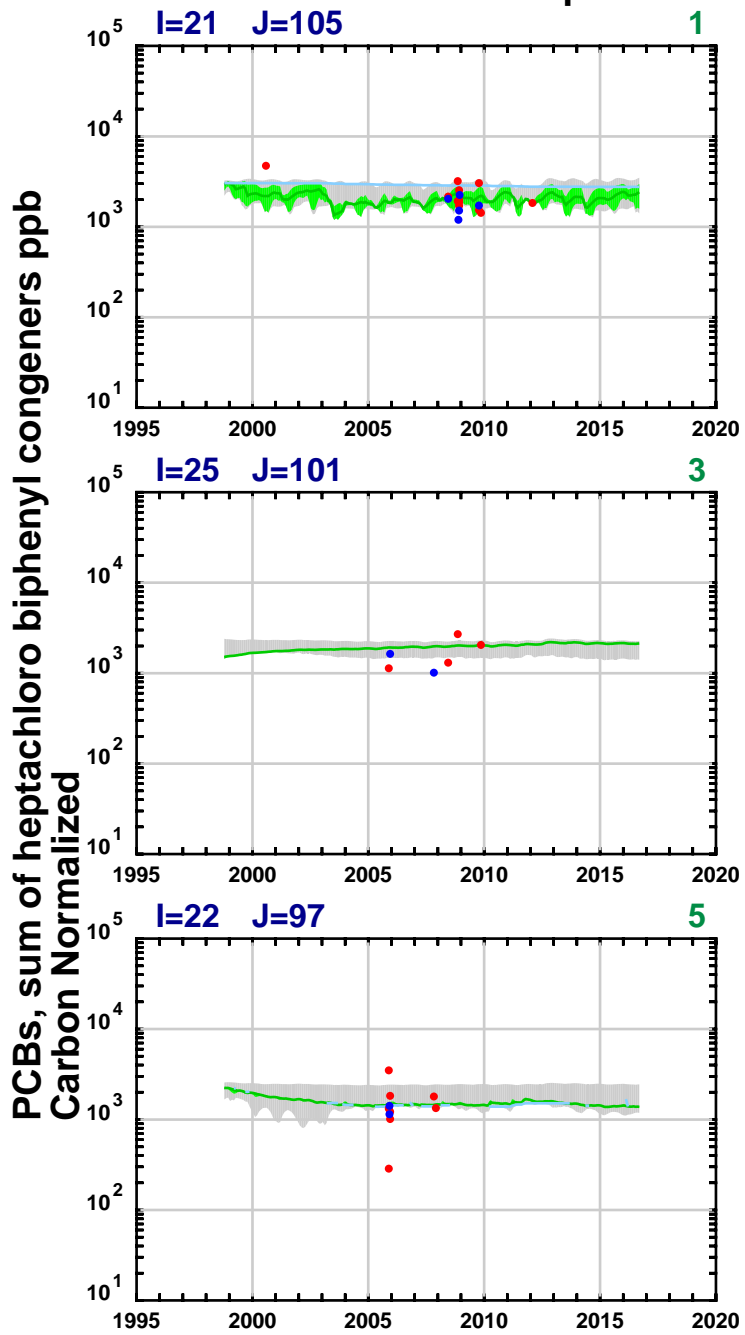
RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



PCBs, sum of heptachloro biphenyl congeners ppb  
Carbon Normalized

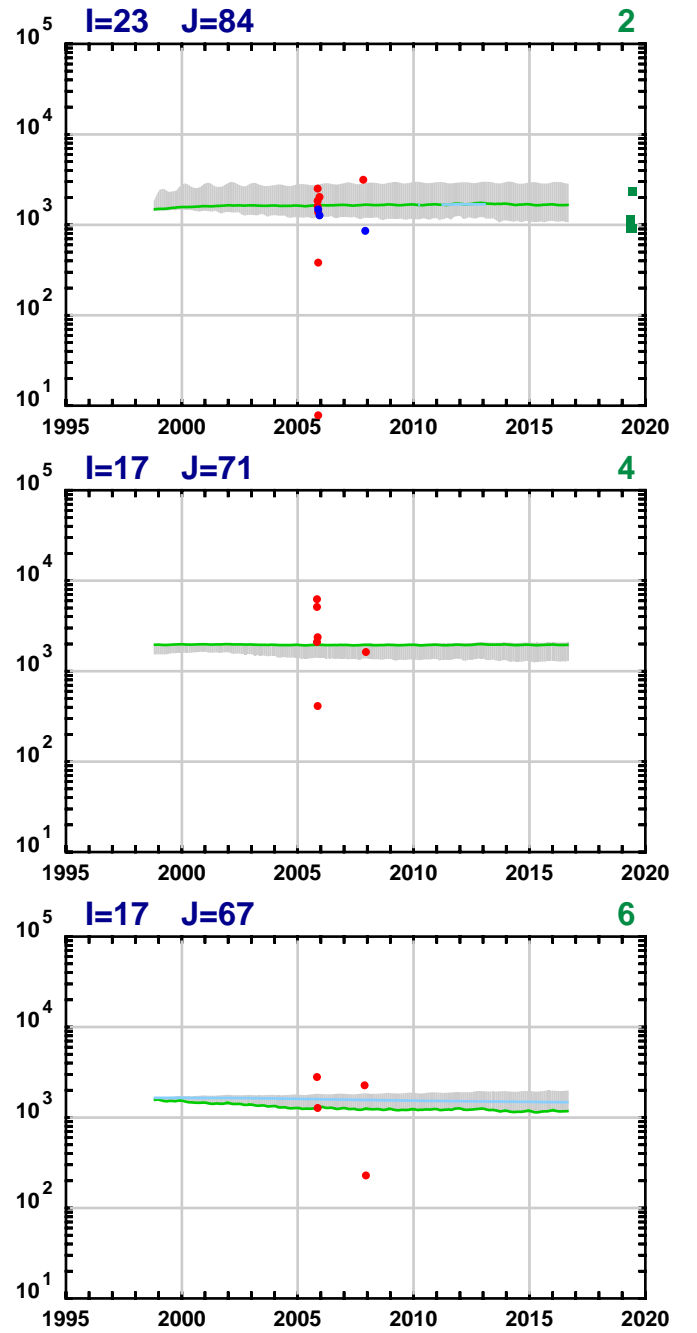
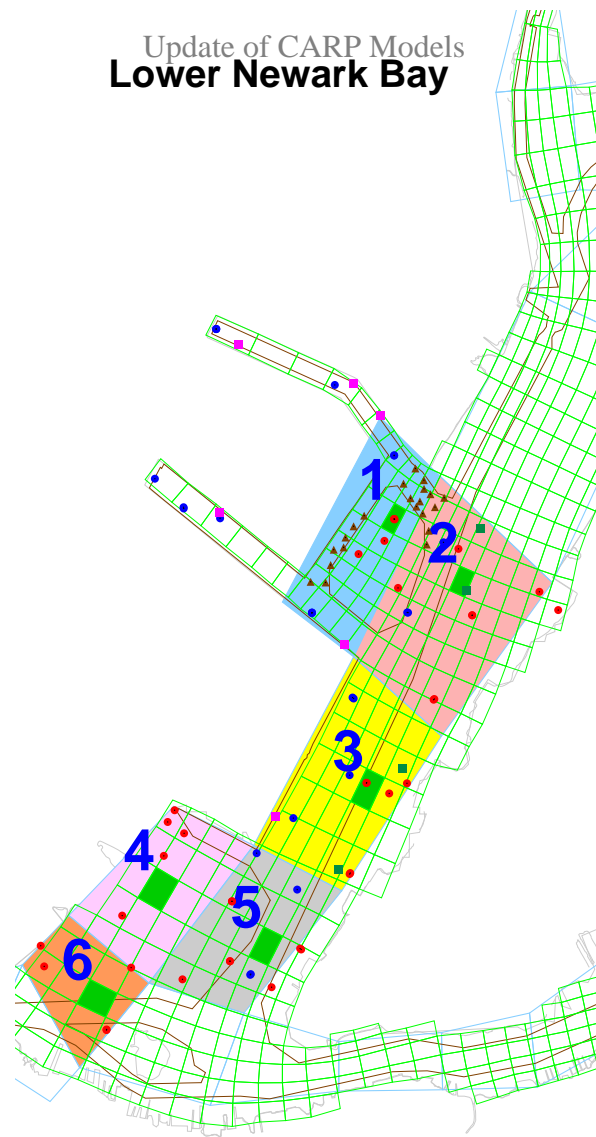
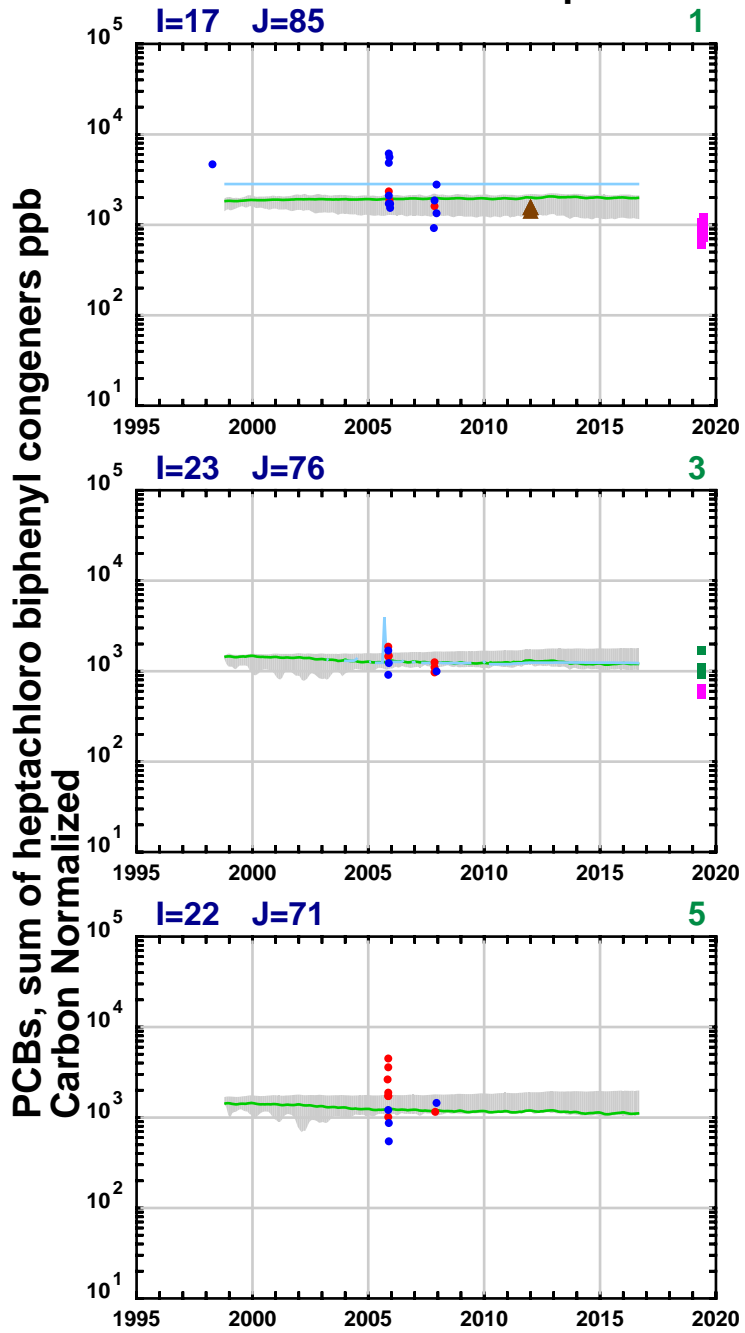
RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



Update of CARP Models  
Lower Newark Bay

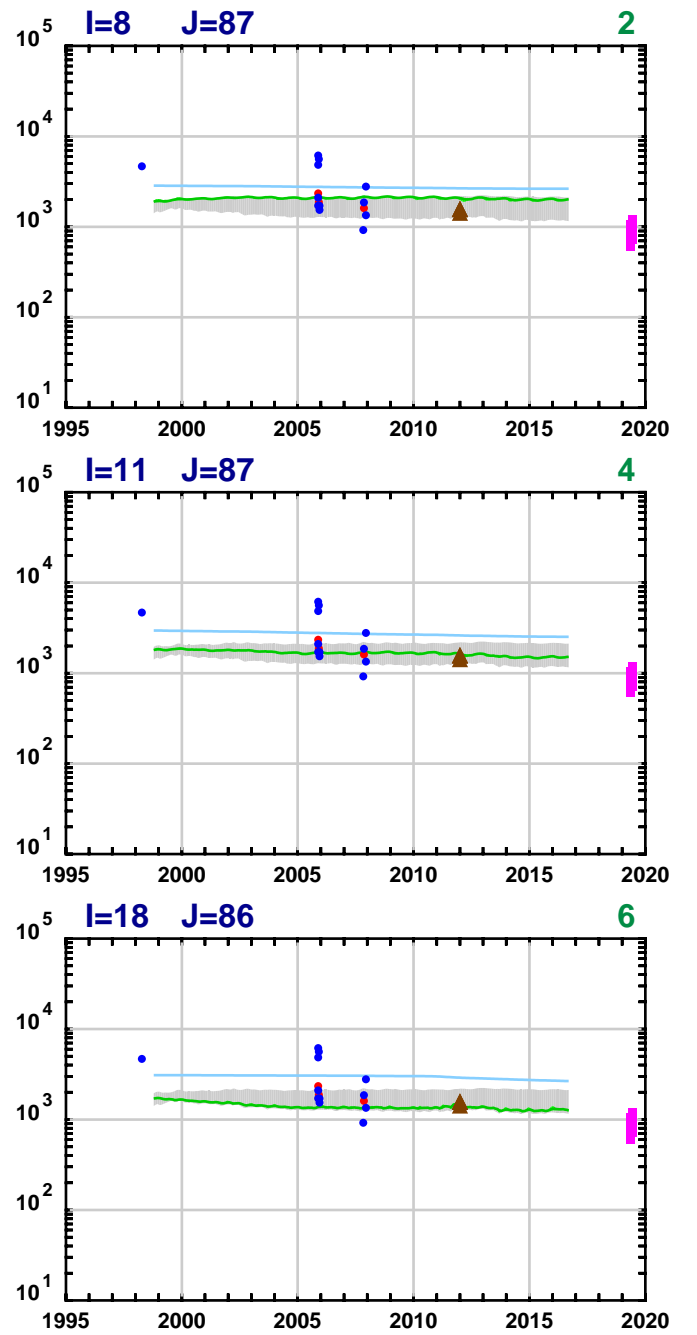
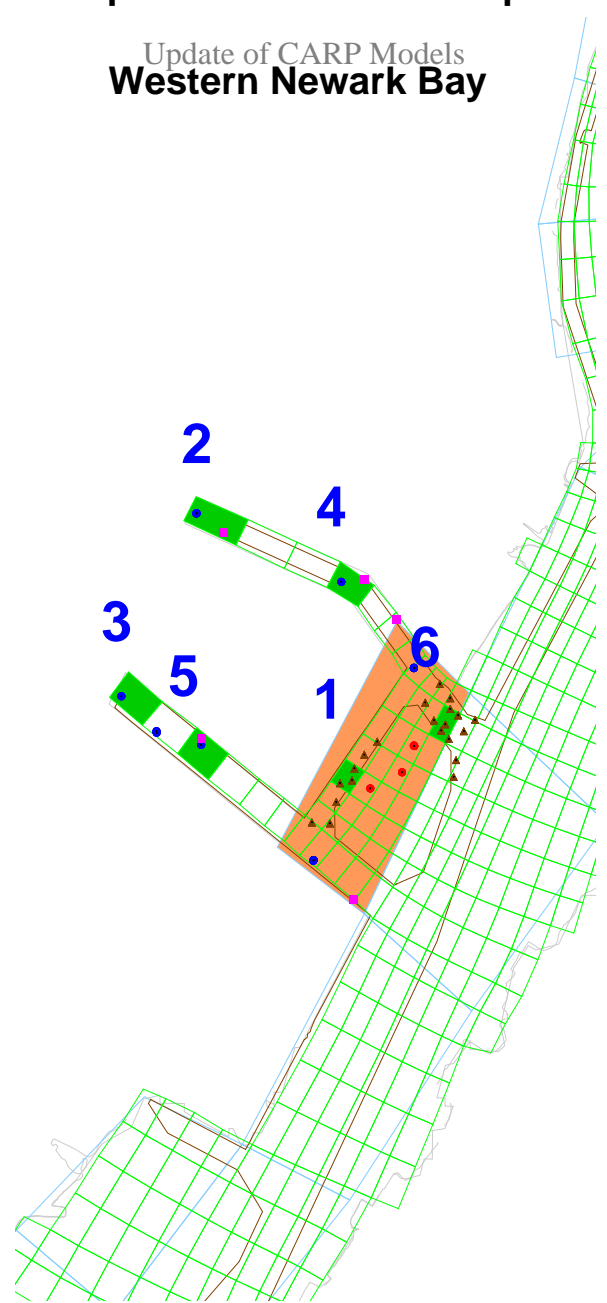
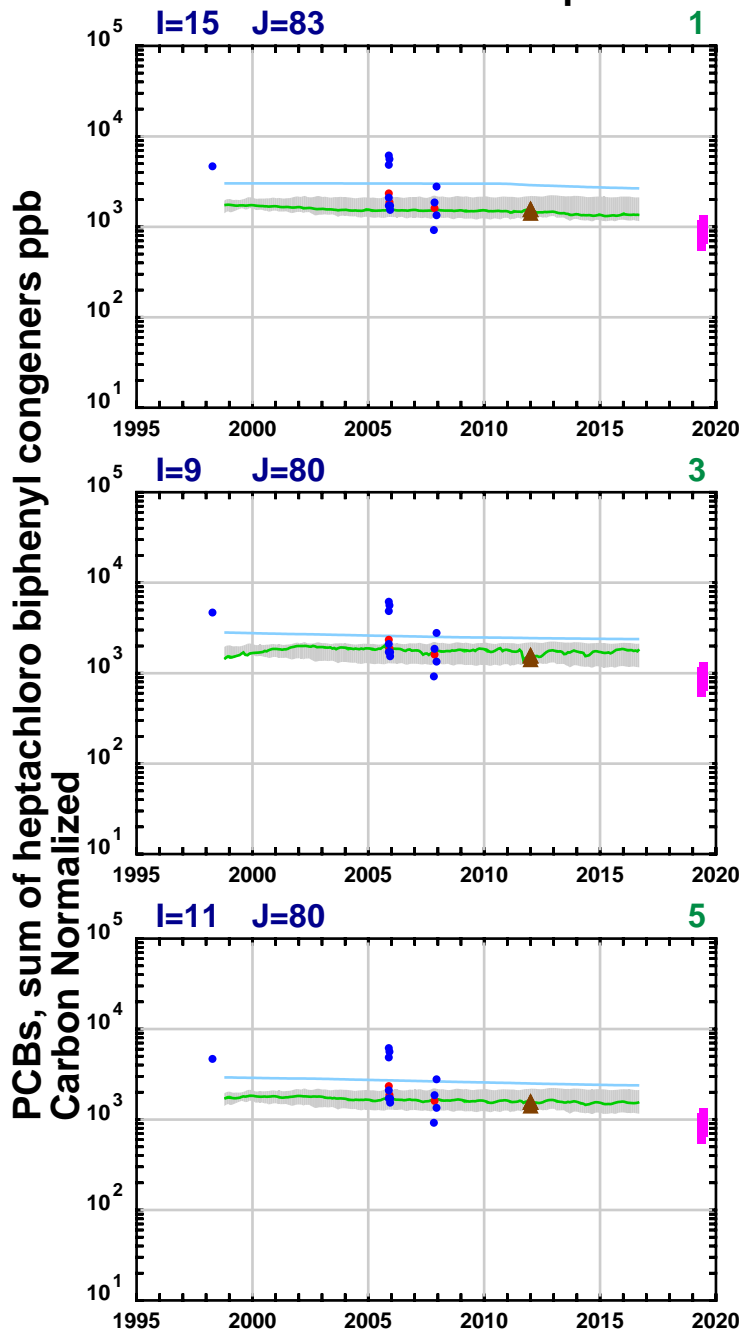
RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay



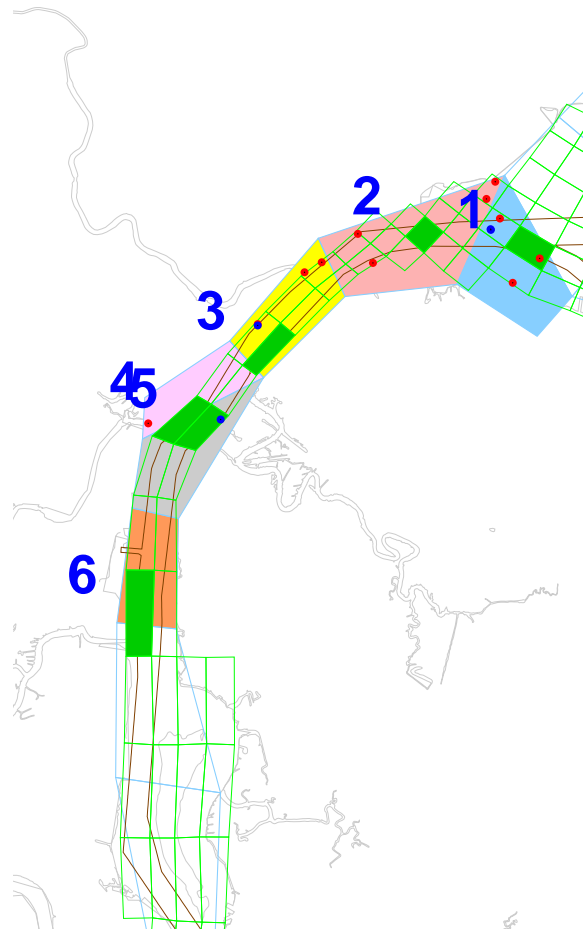
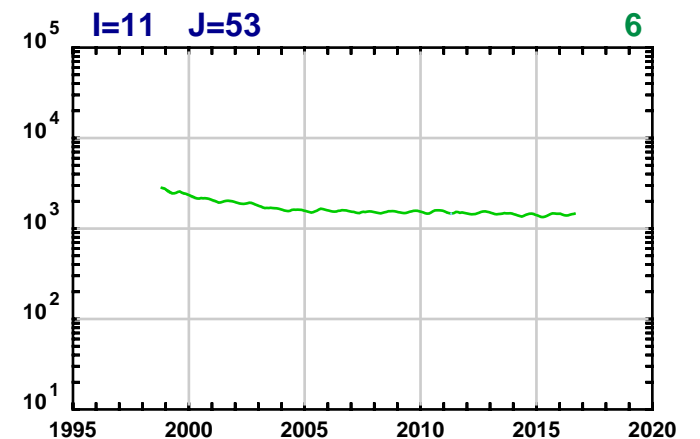
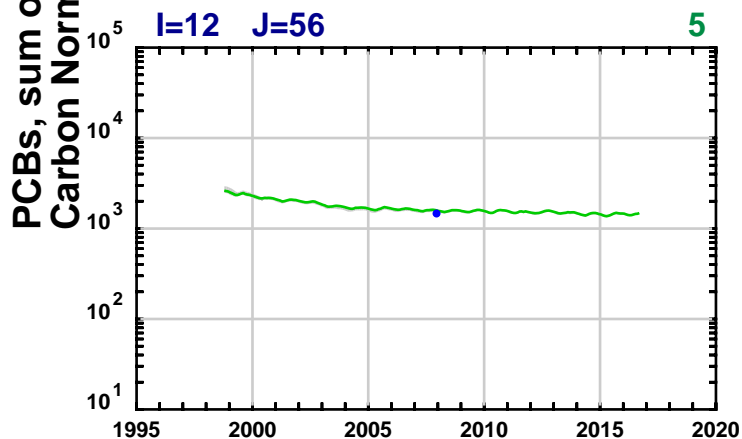
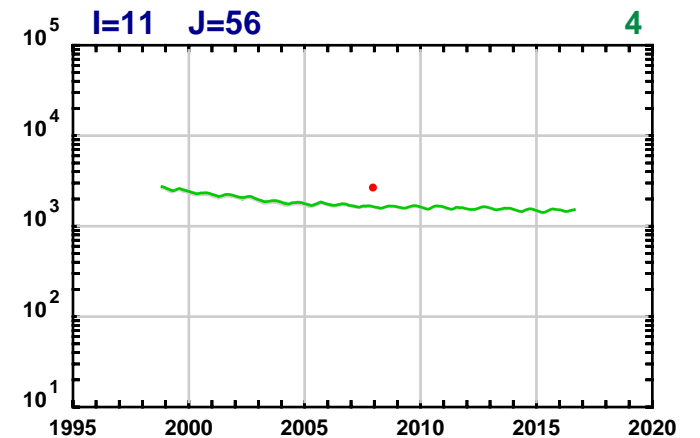
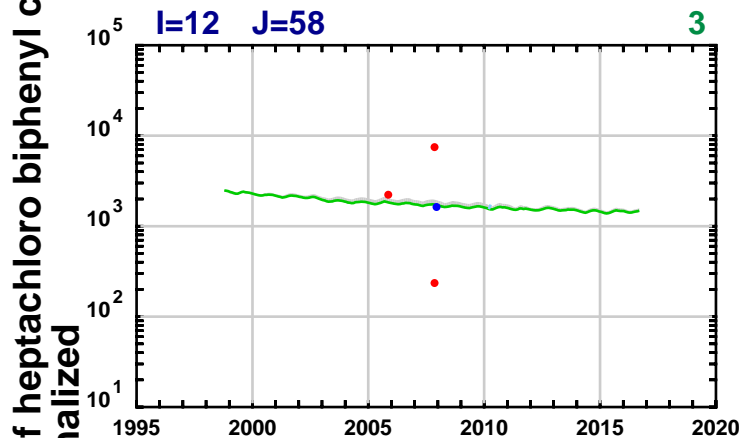
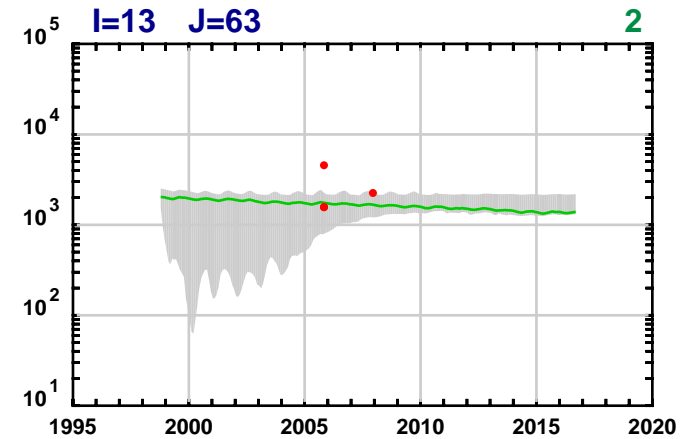
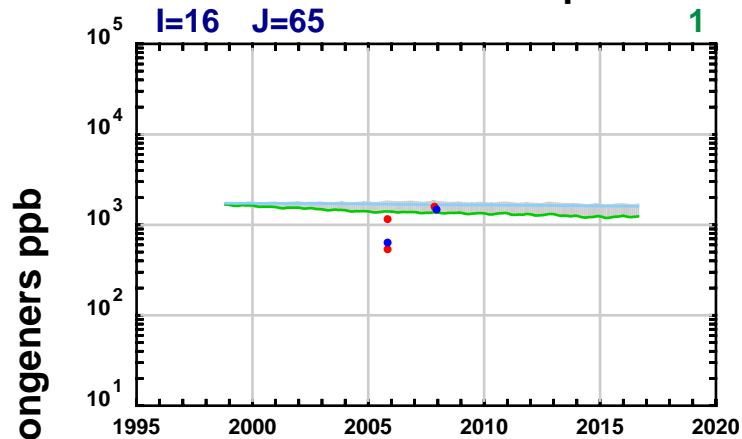
RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1



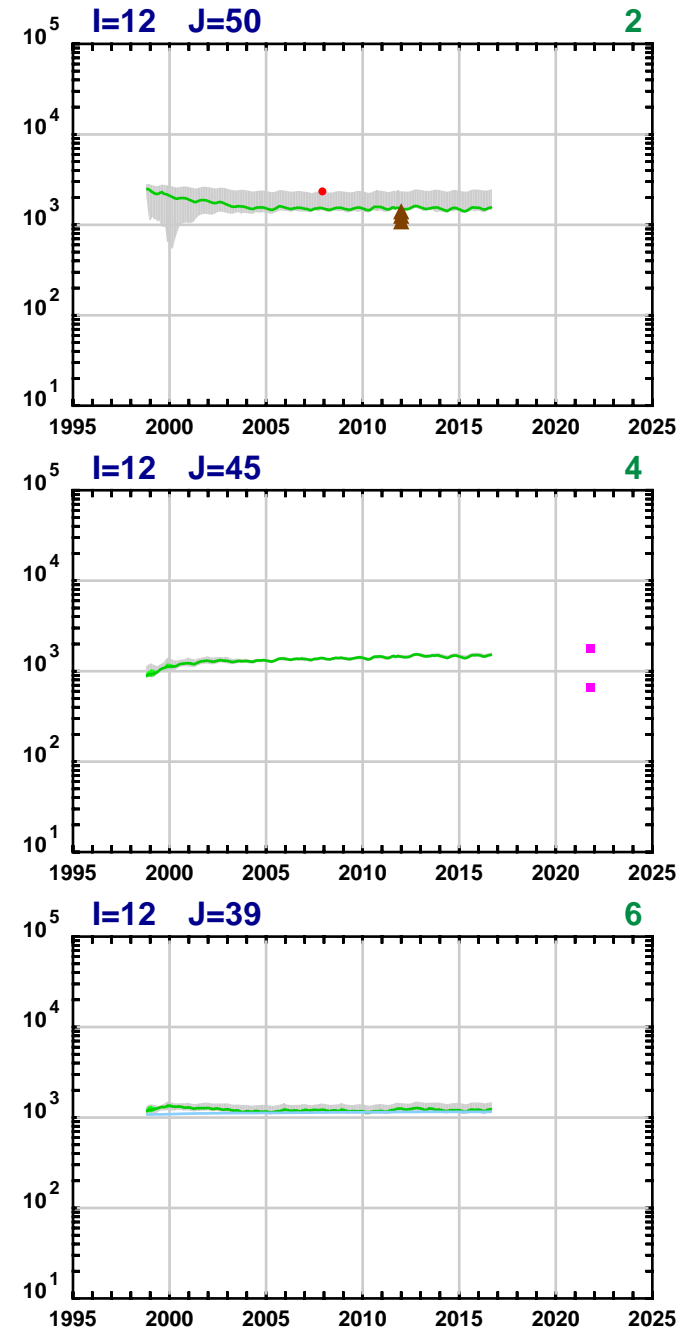
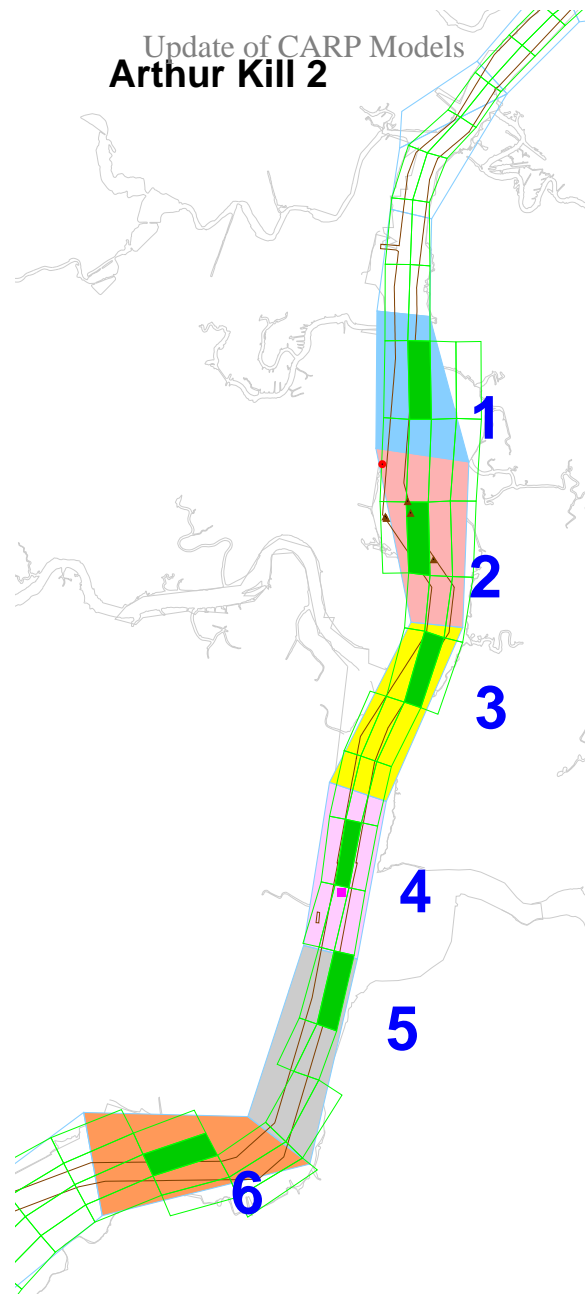
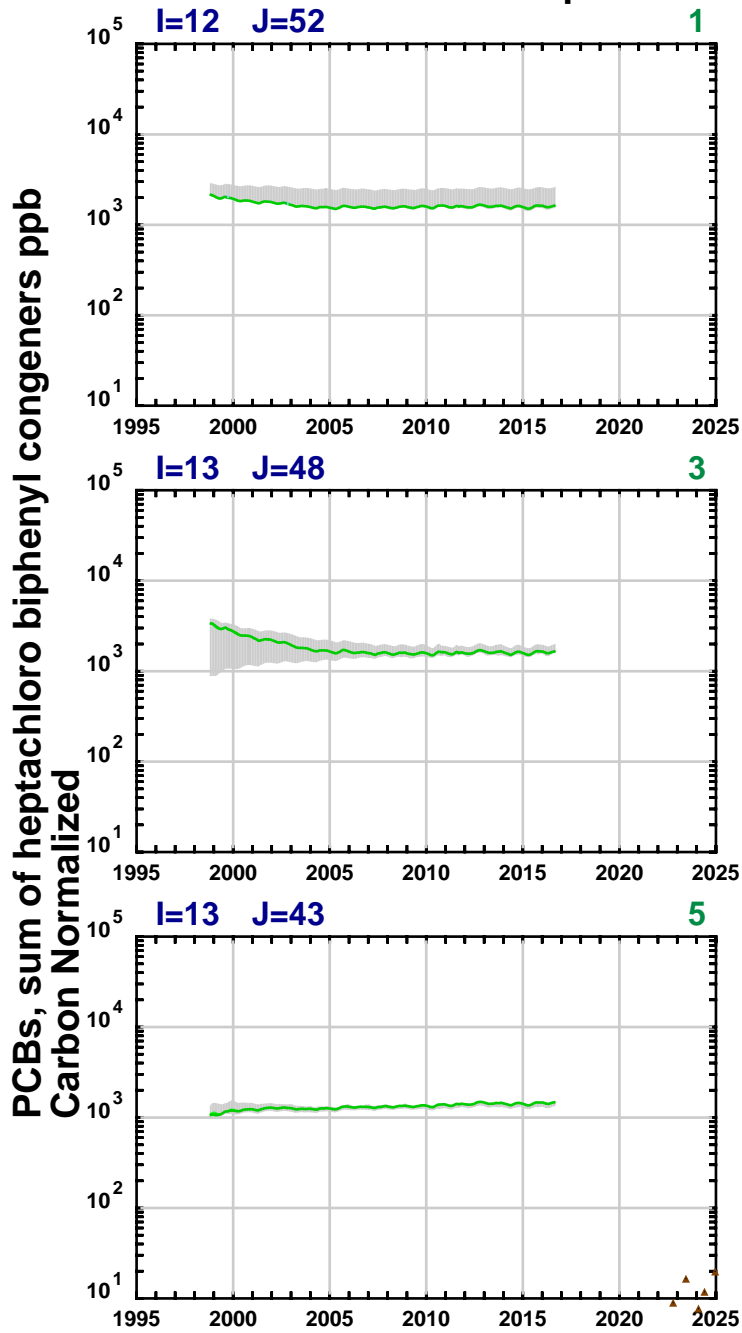
PCBs, sum of heptachloro biphenyl congeners ppb  
Carbon Normalized

RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

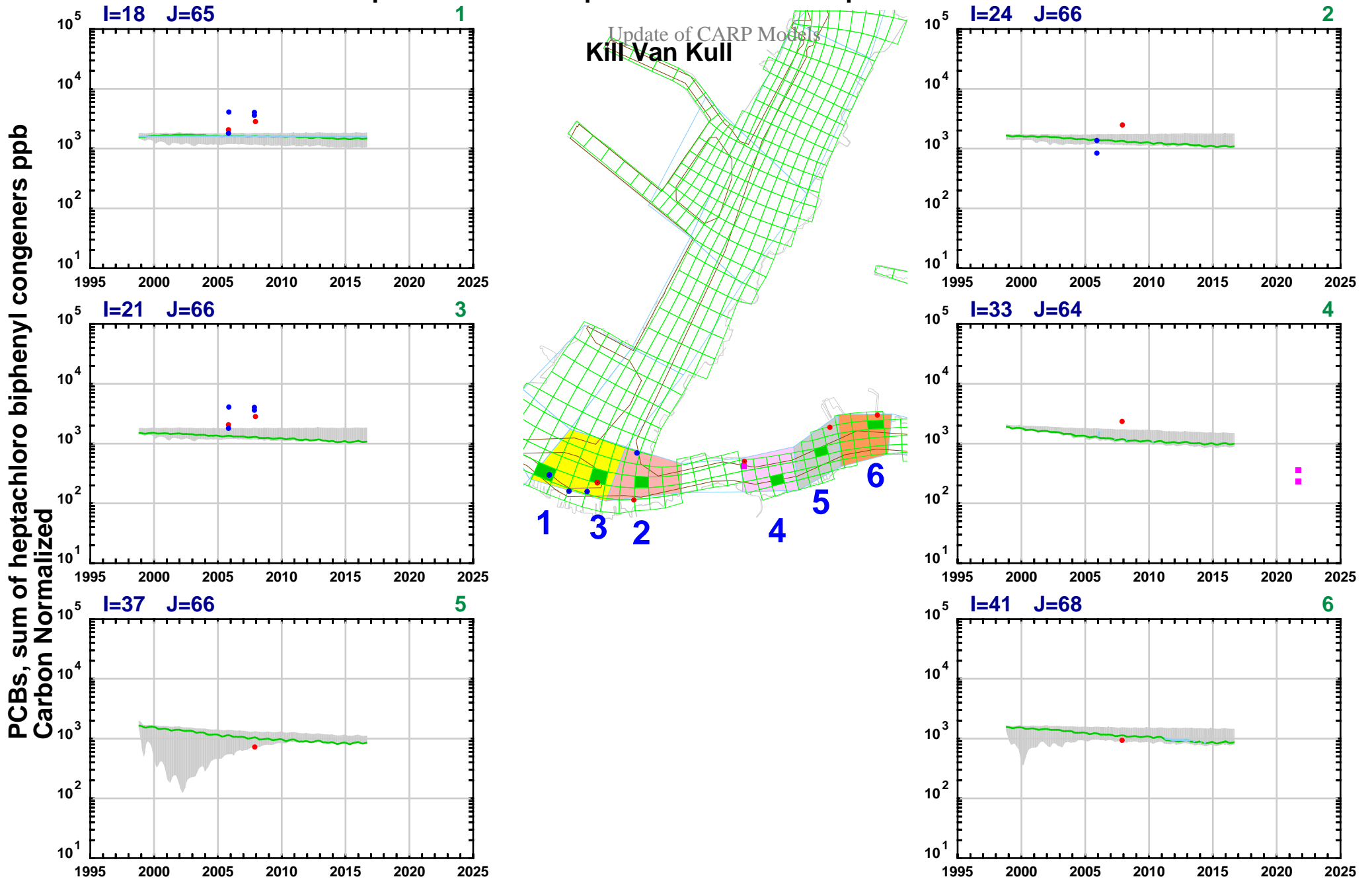


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

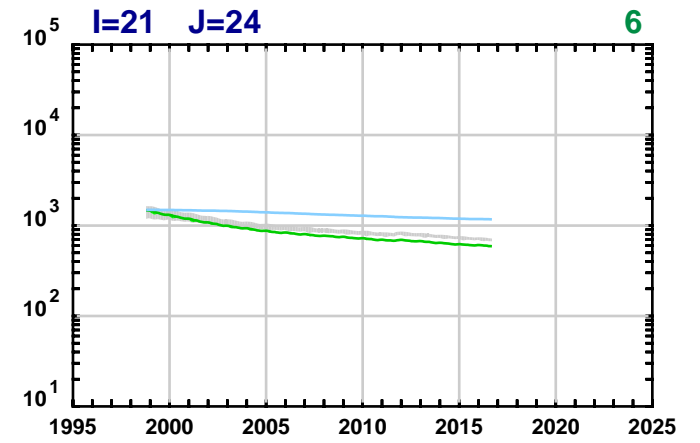
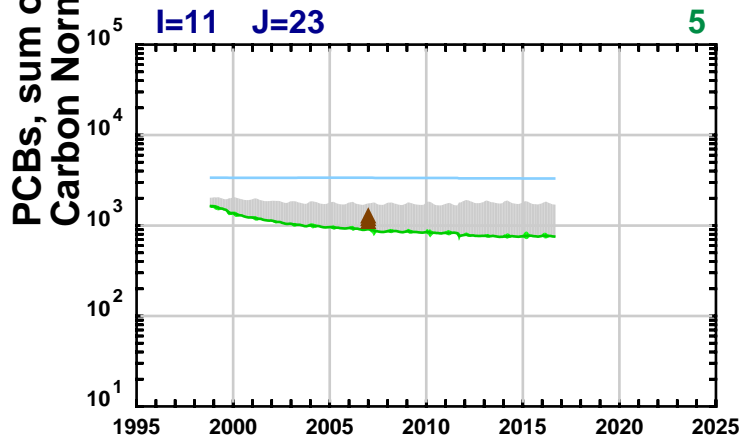
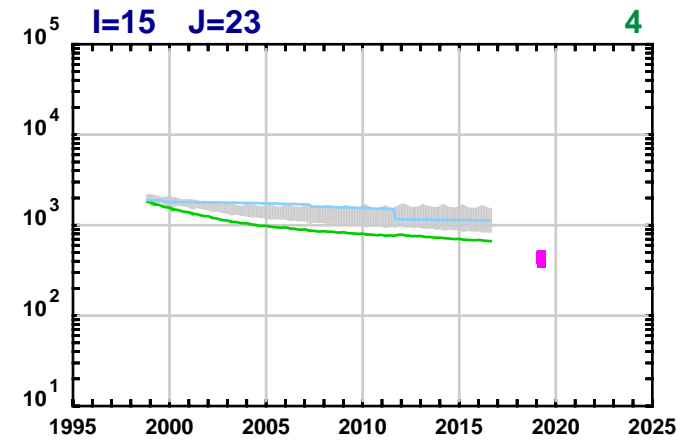
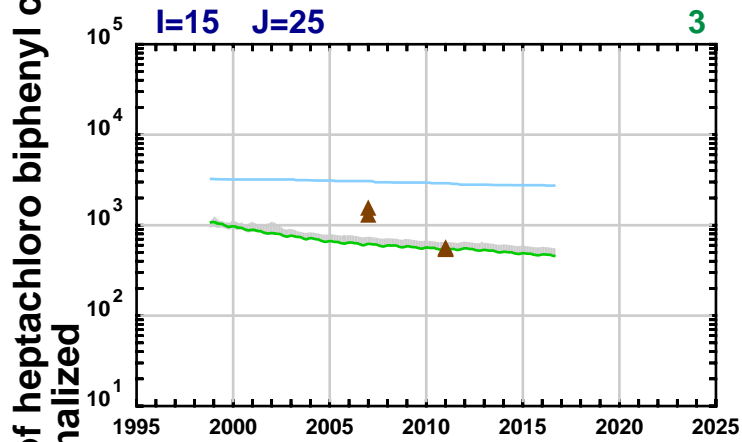
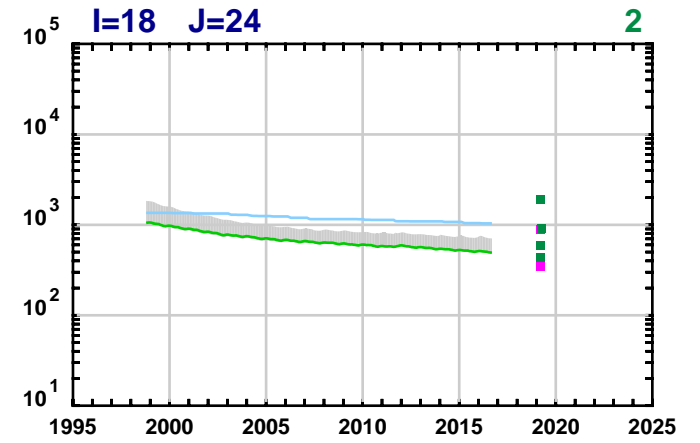
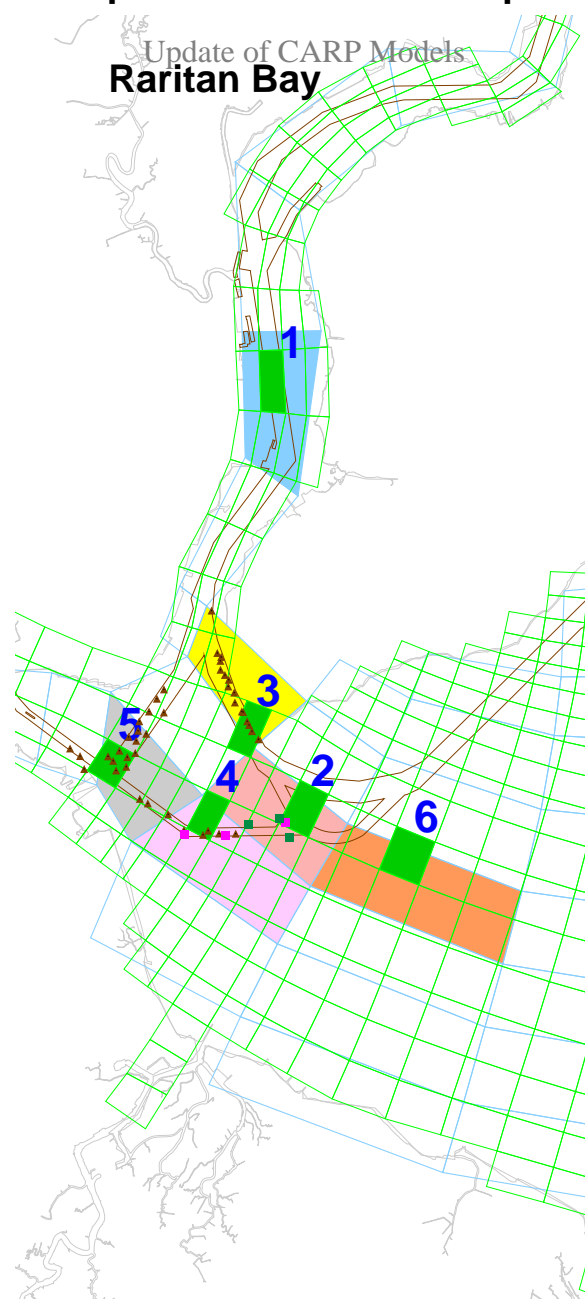
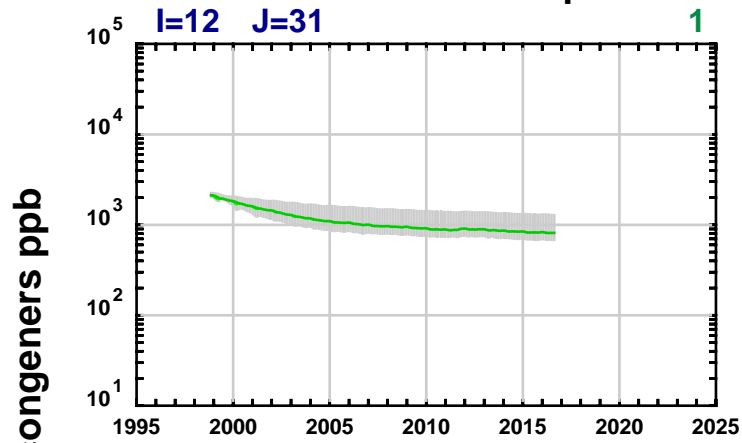


**RUN18\_S2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

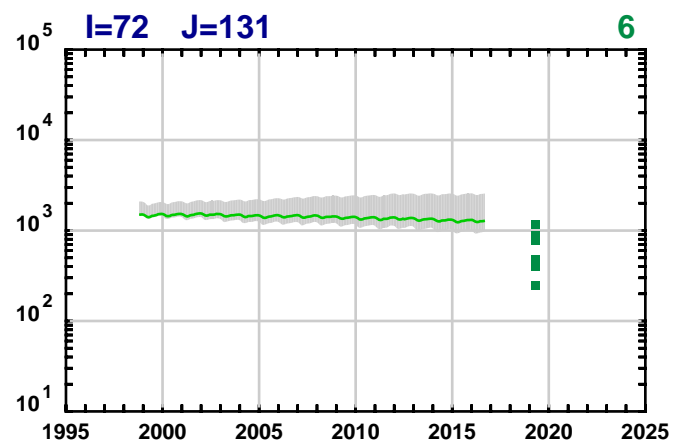
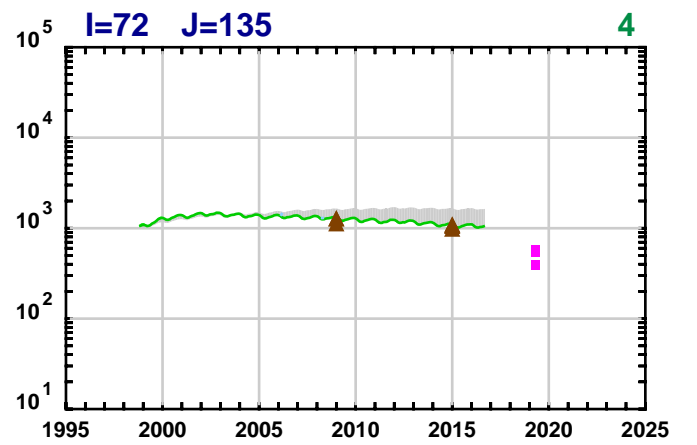
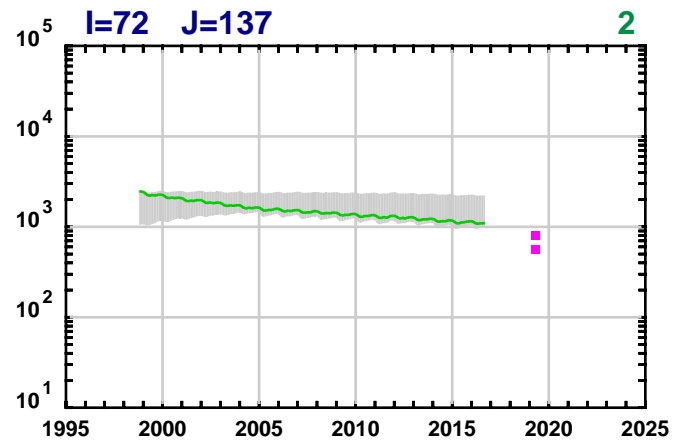
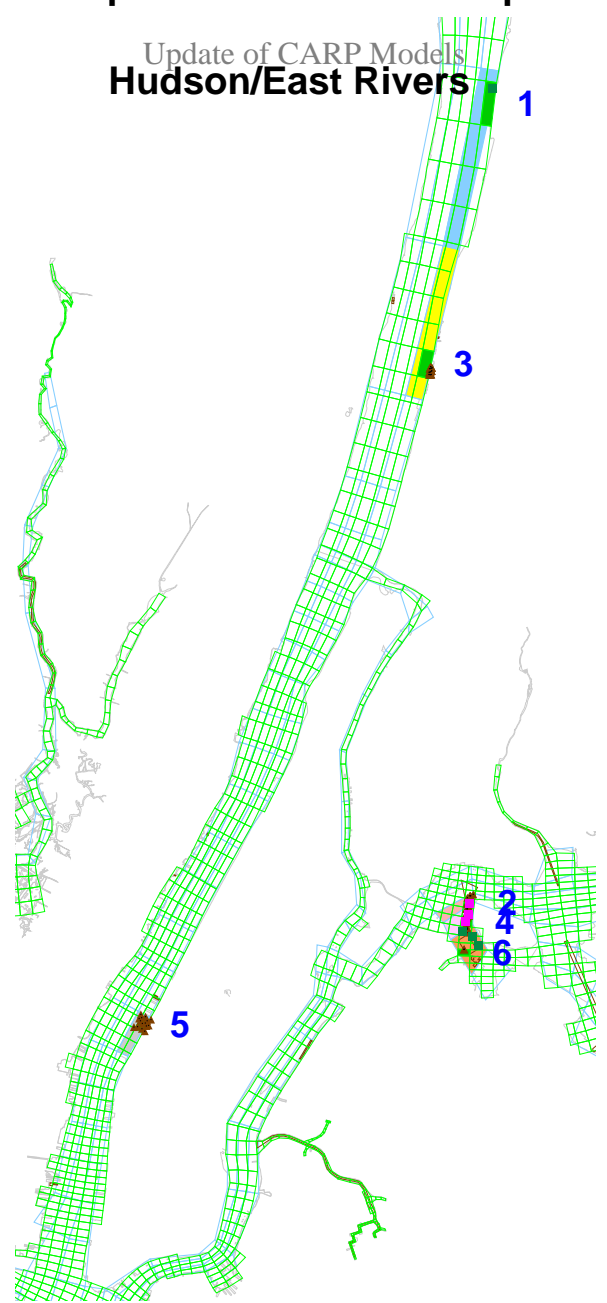
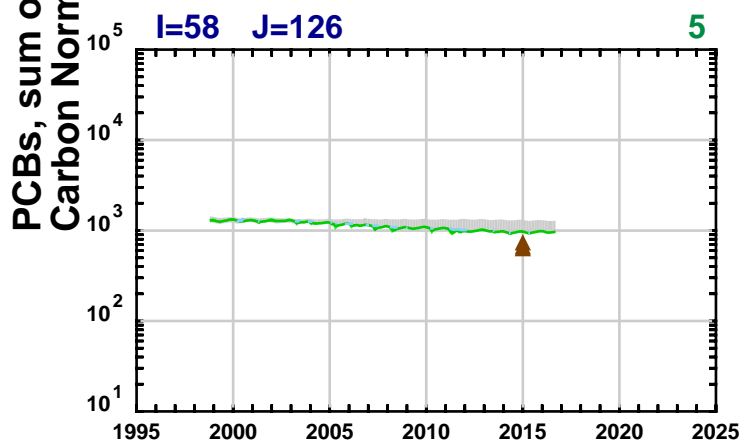
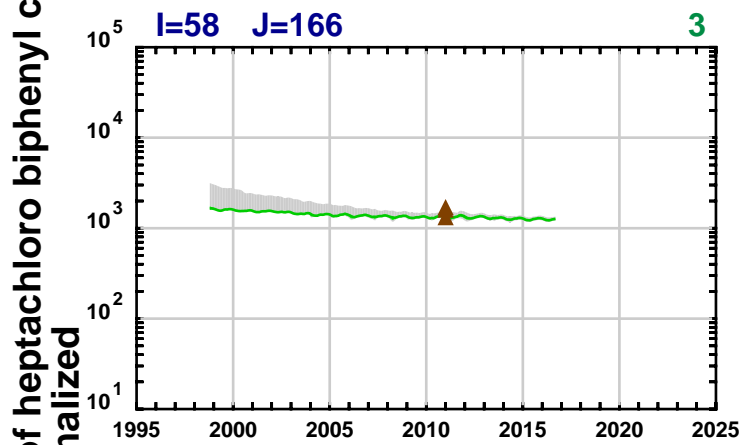
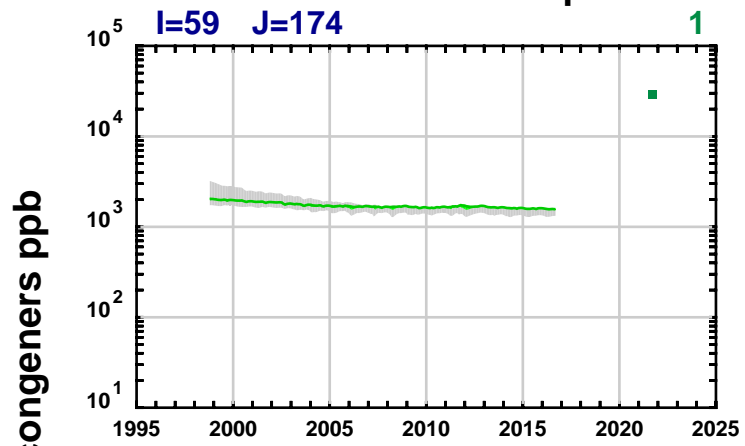


**RUN18\_S2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



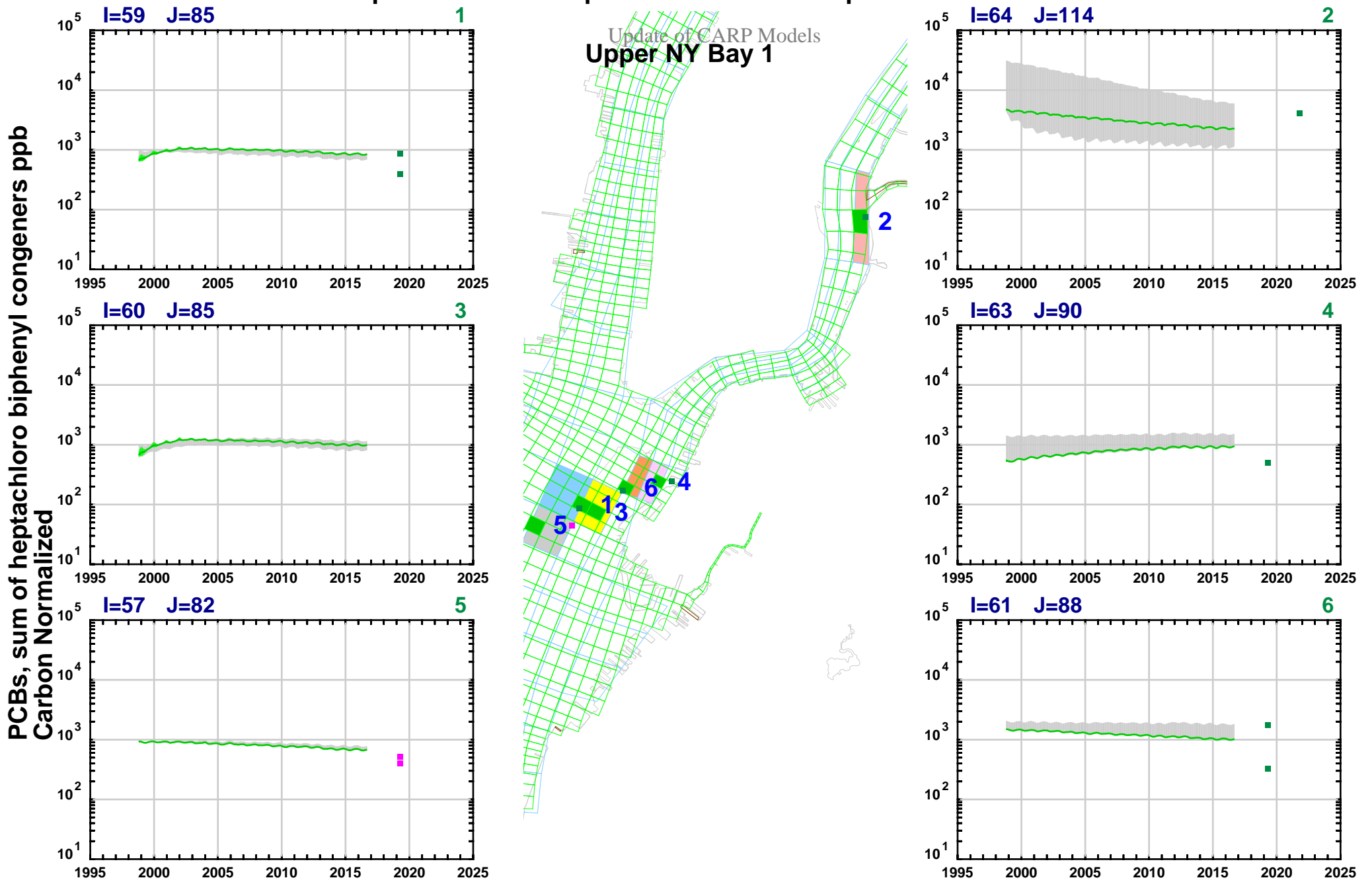
**RUN18\_S2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data ● Off-channel data ▲ Dredge data**  
**■ CARP2 In-channel ■ CARP2 Off-channel**



# Top 15 cm data comparison with model top 10 cm sediment

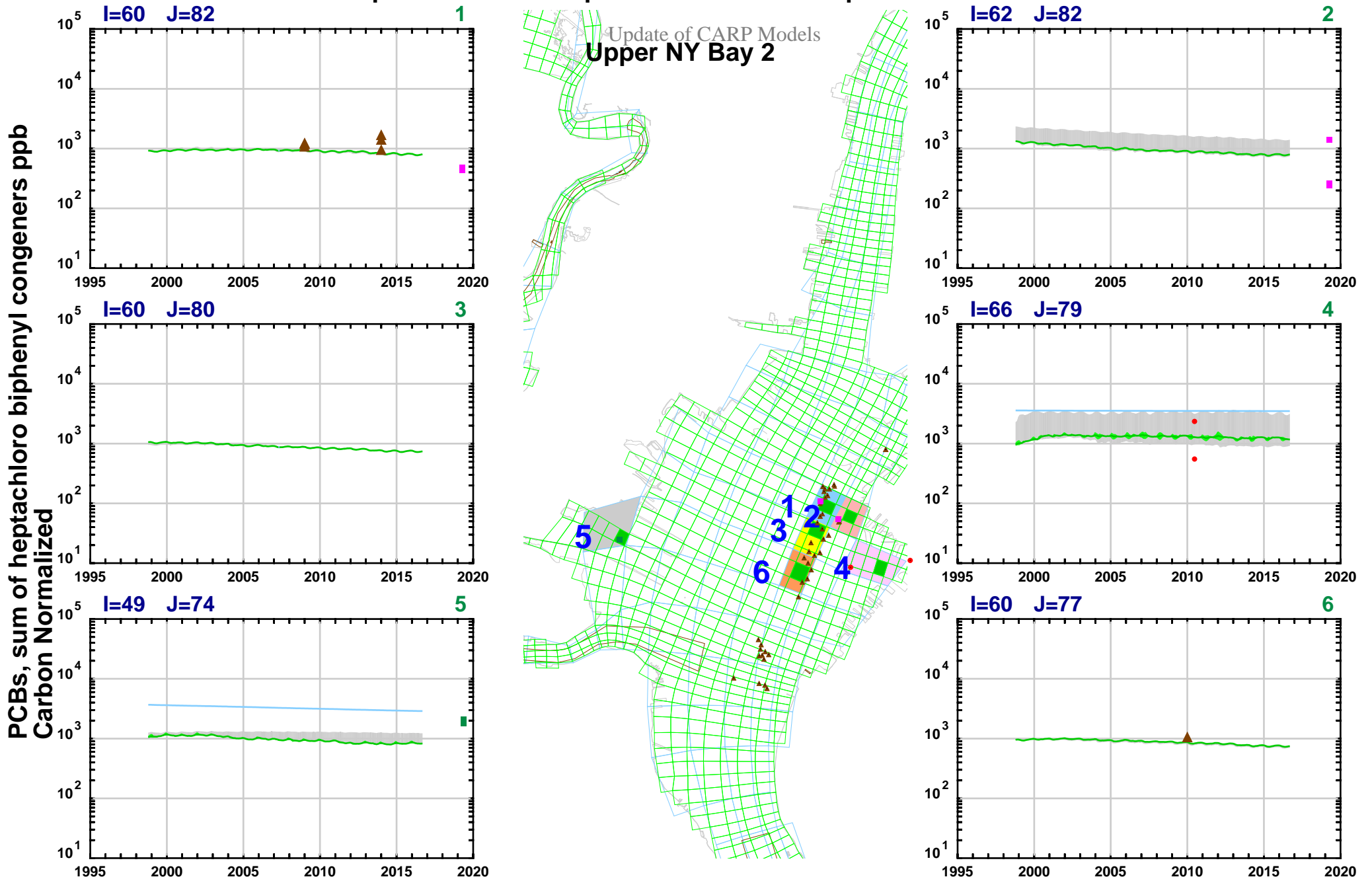


**RUN18\_S2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data**    **● Off-channel data**    **▲ Dredge data**  
**■ CARP2 In-channel**    **■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

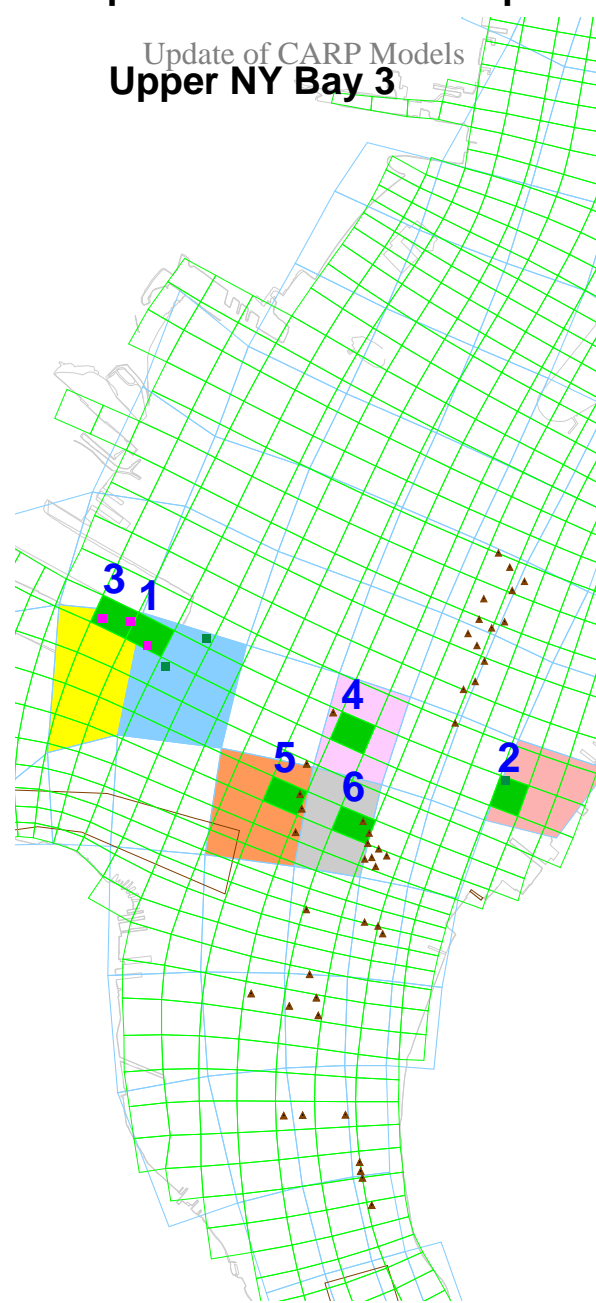
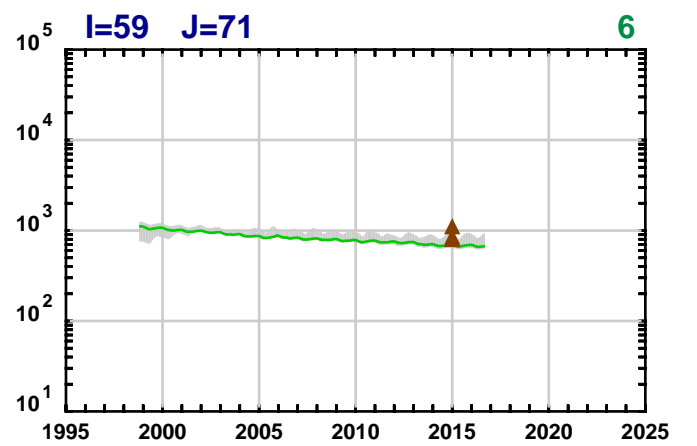
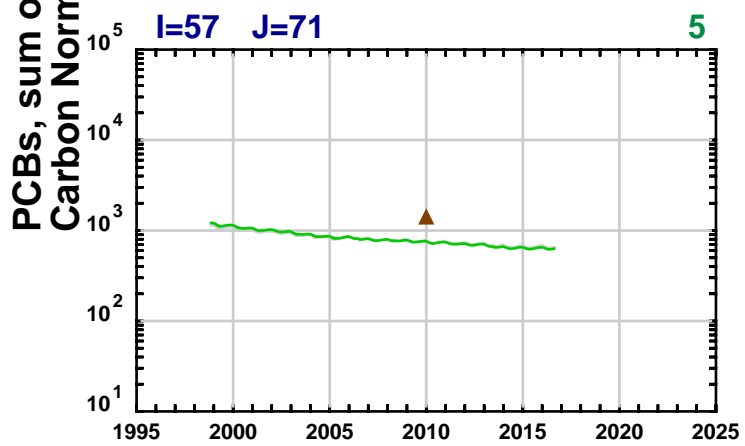
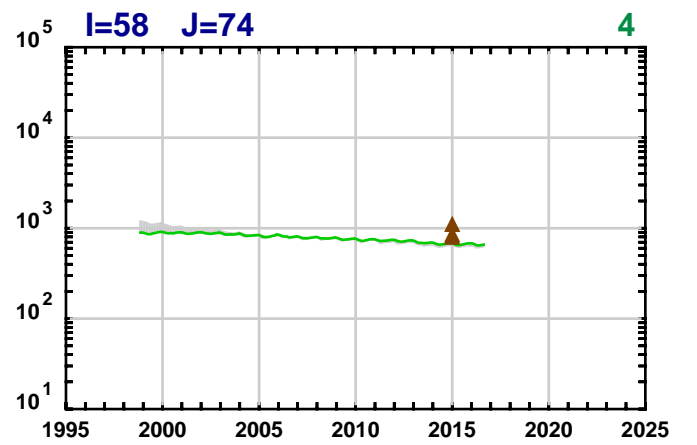
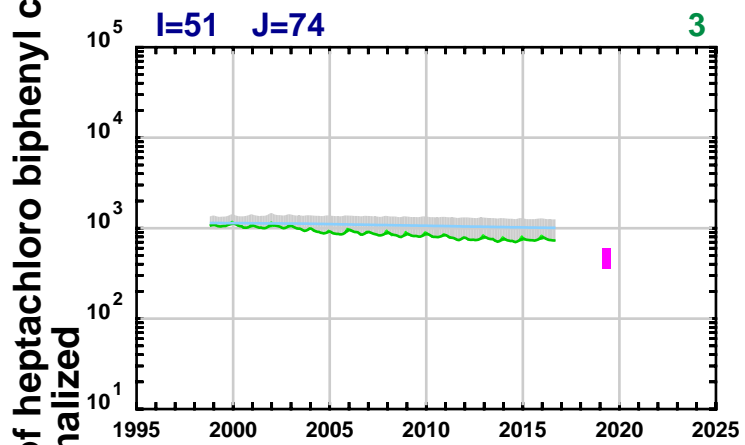
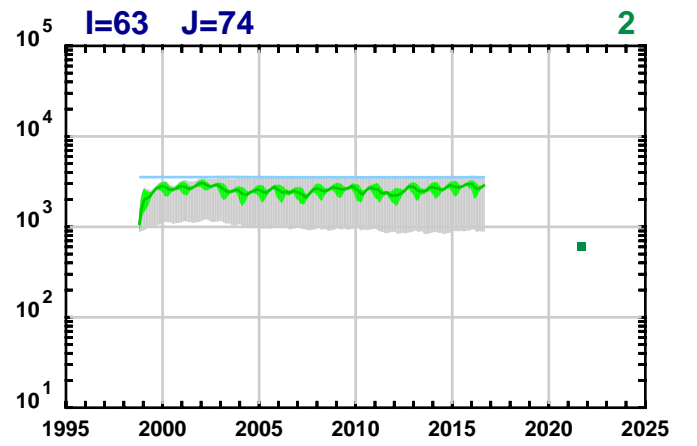
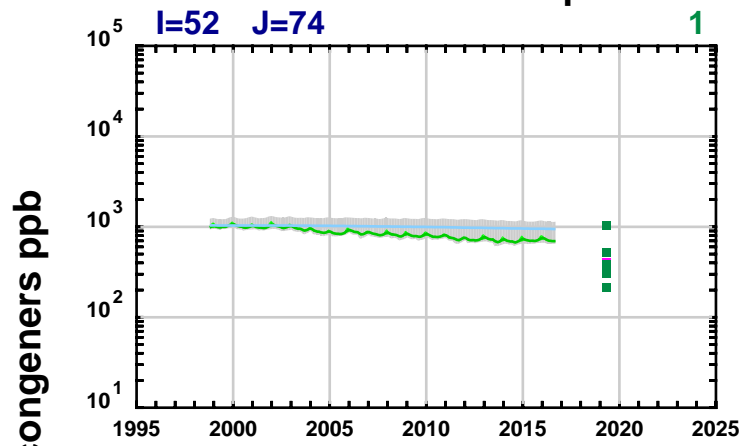


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

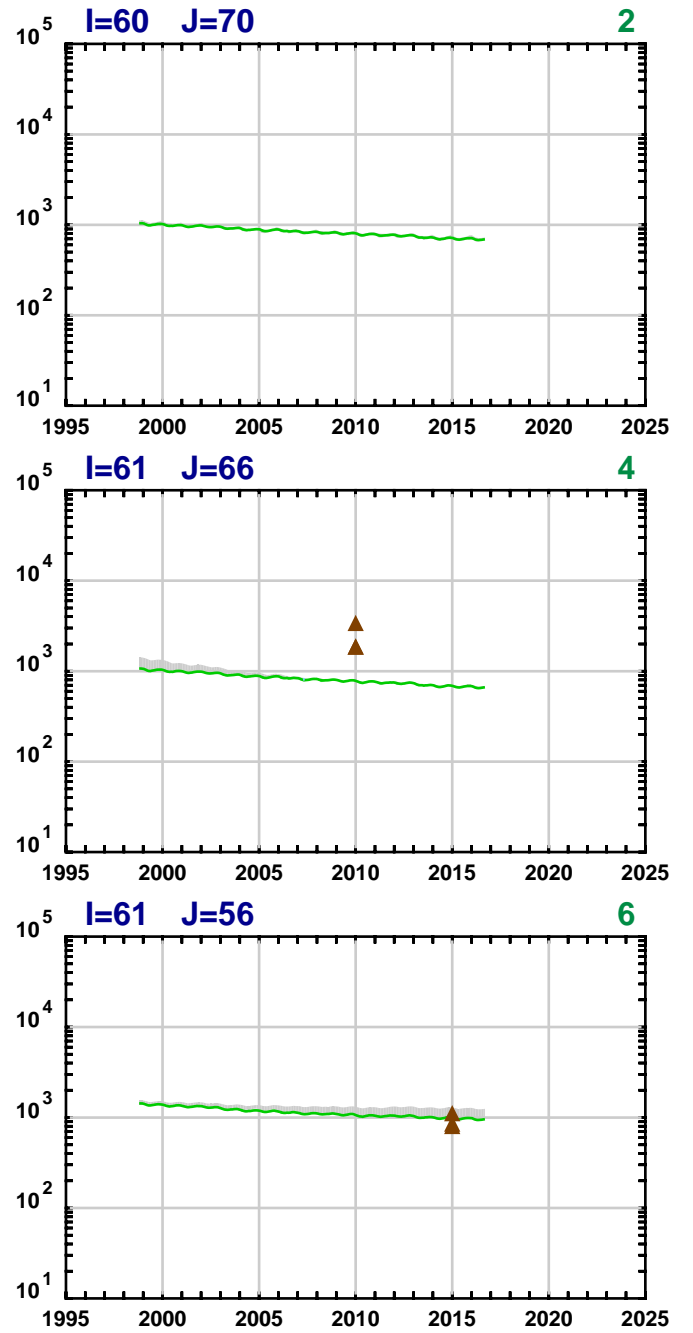
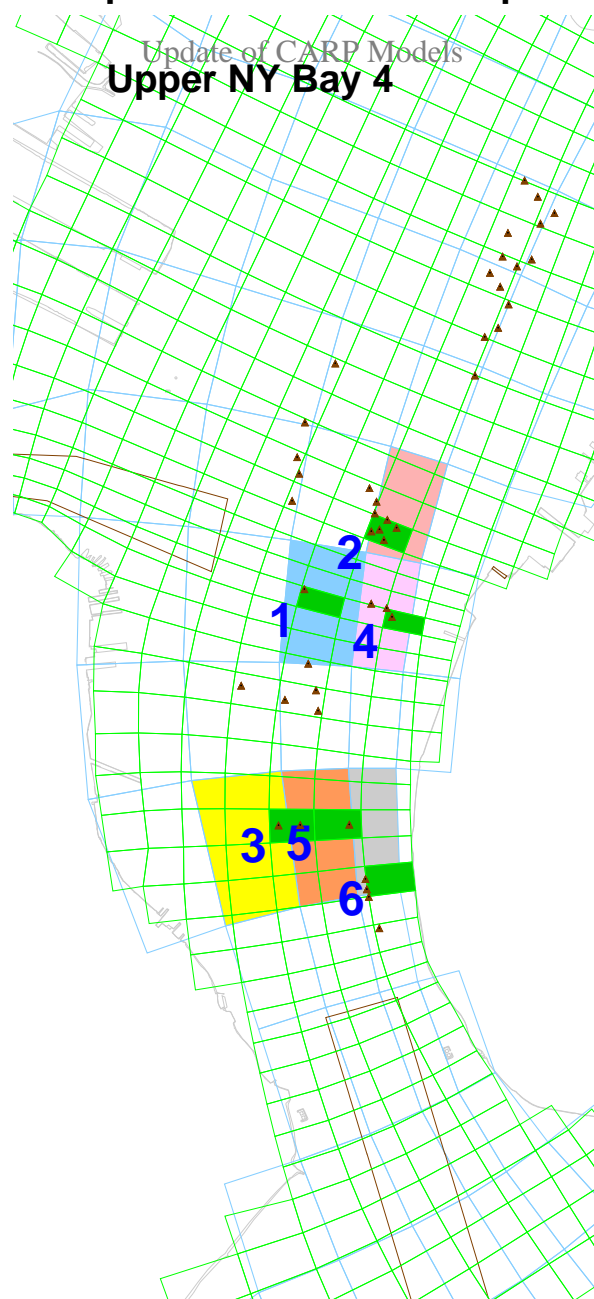
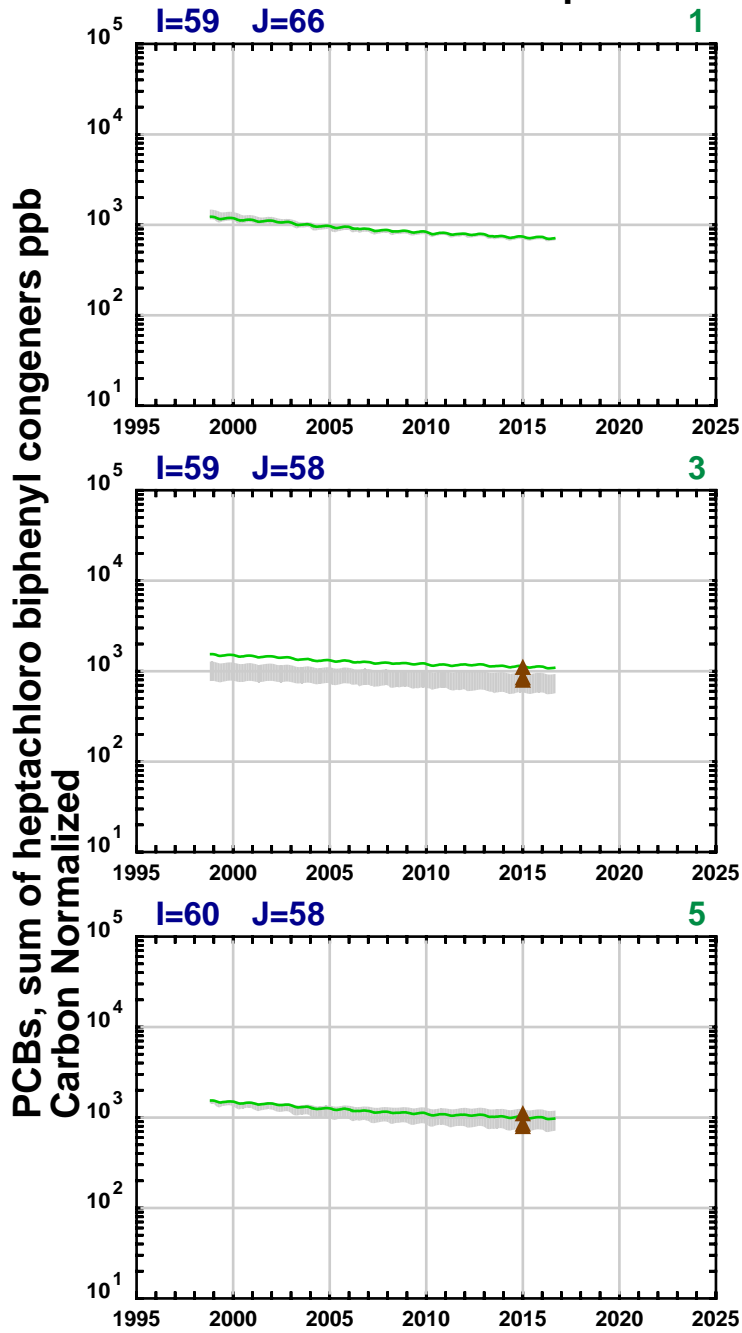


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

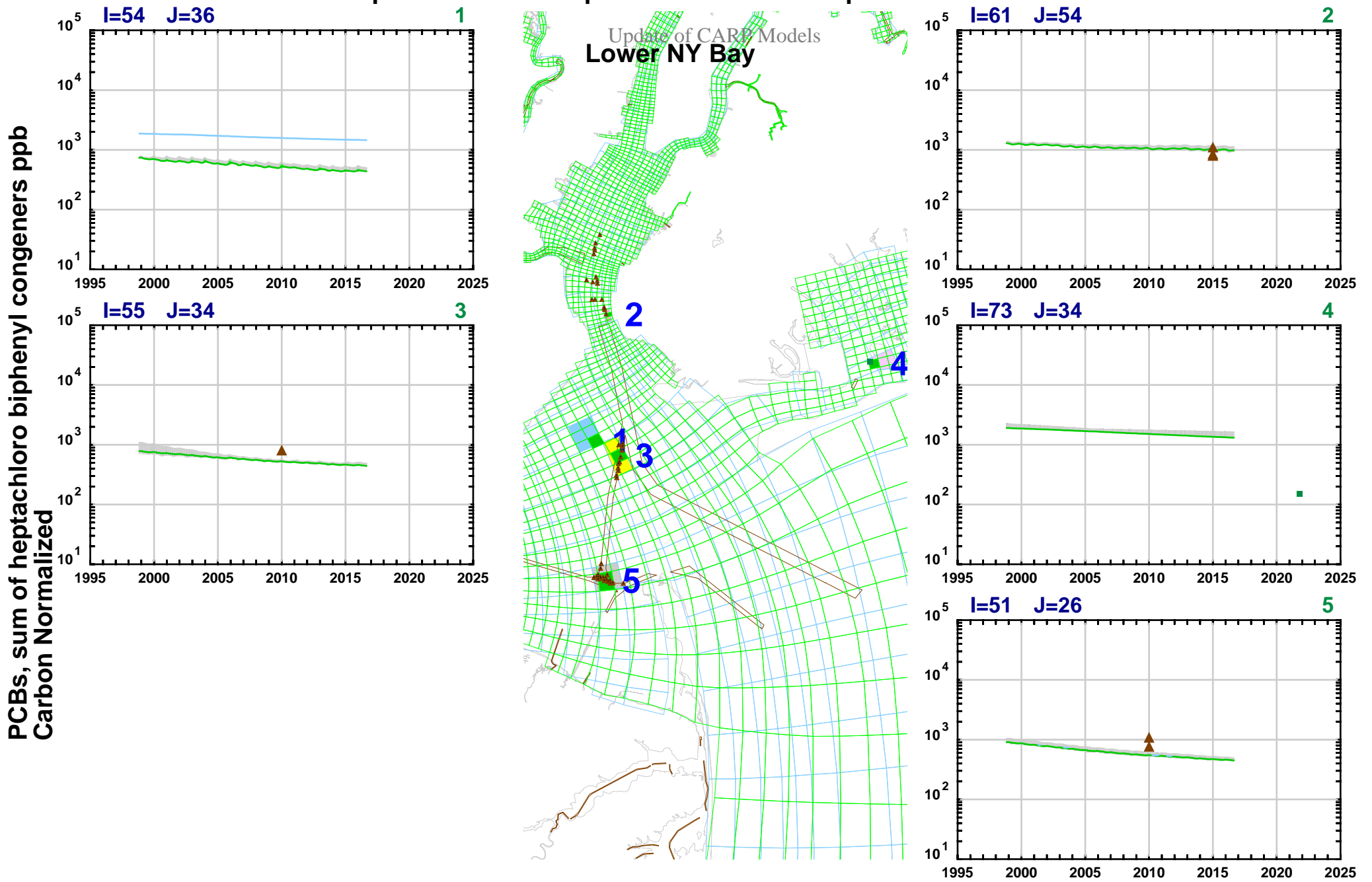


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



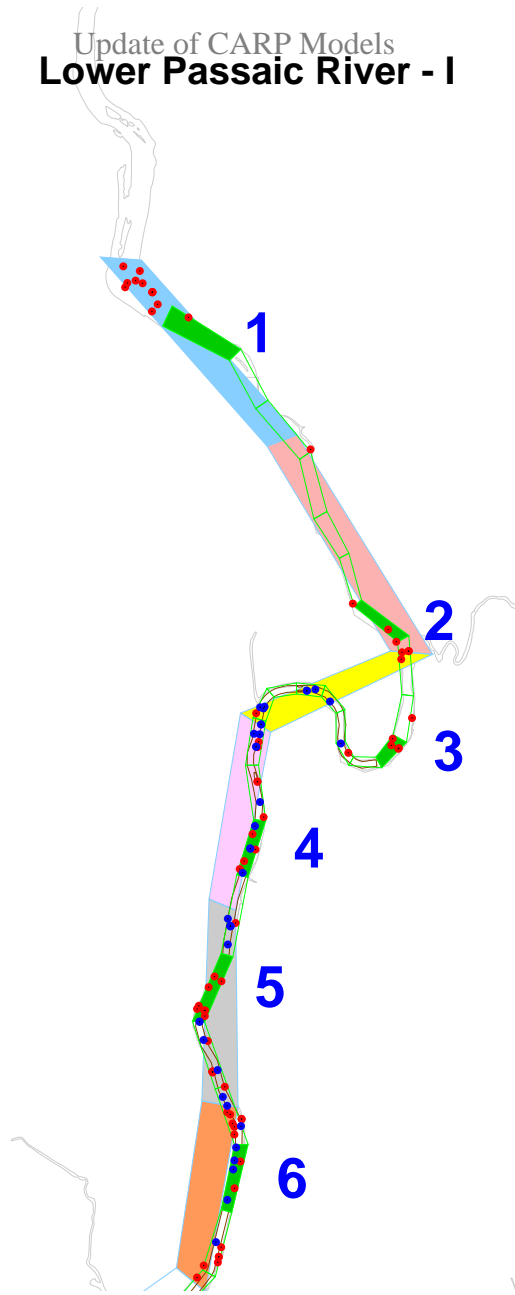
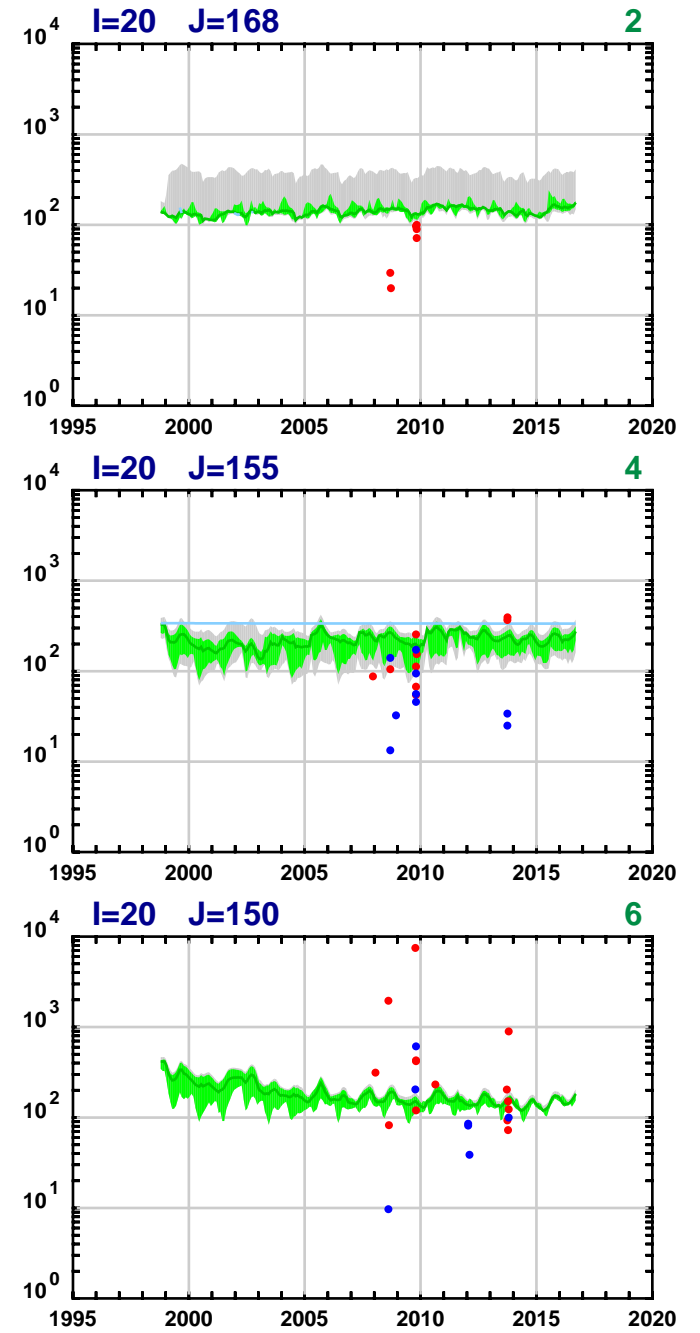
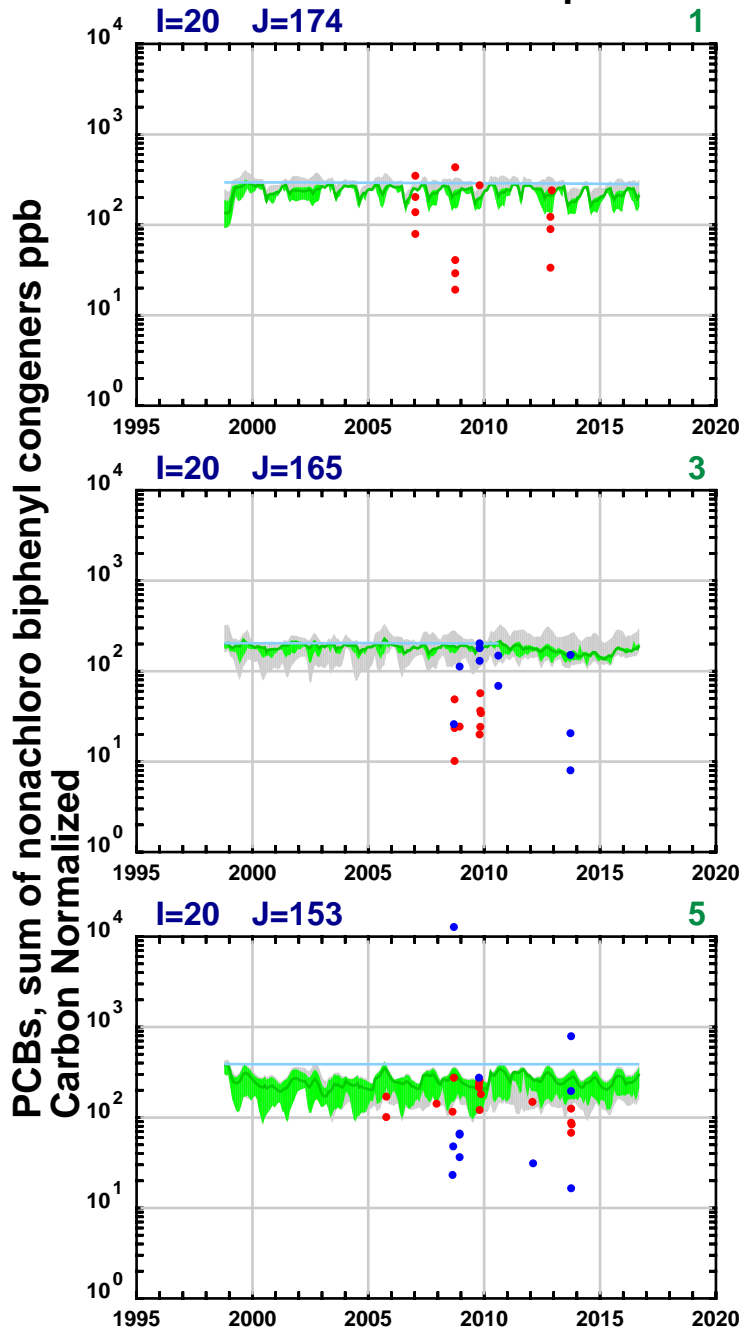
RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Lower Passaic River - I



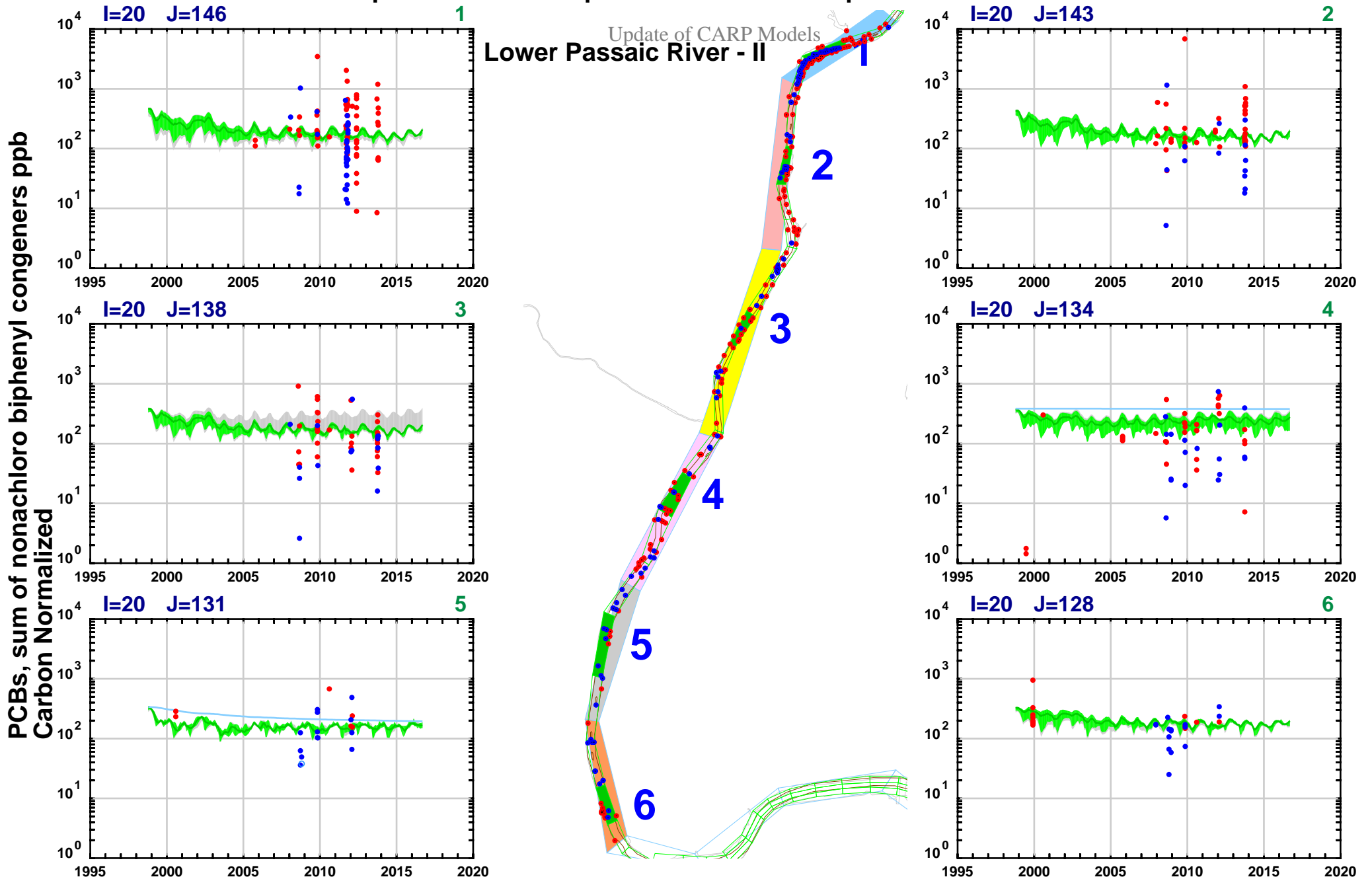
RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



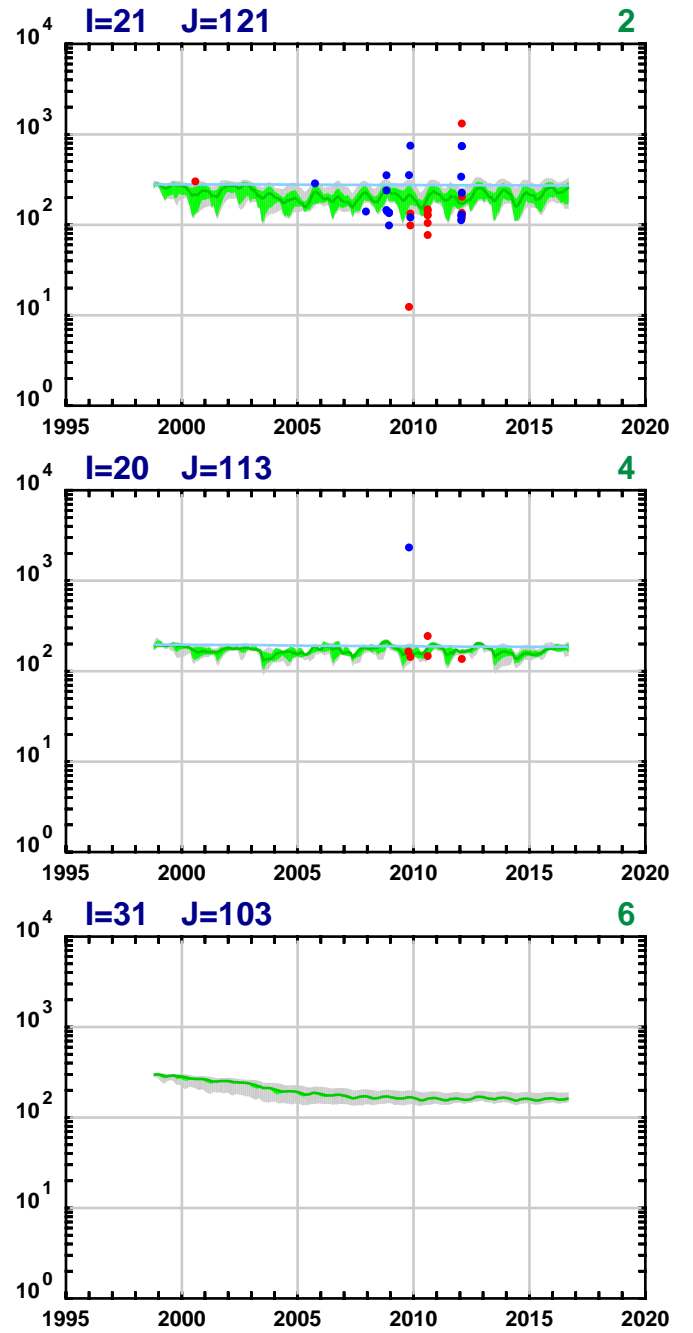
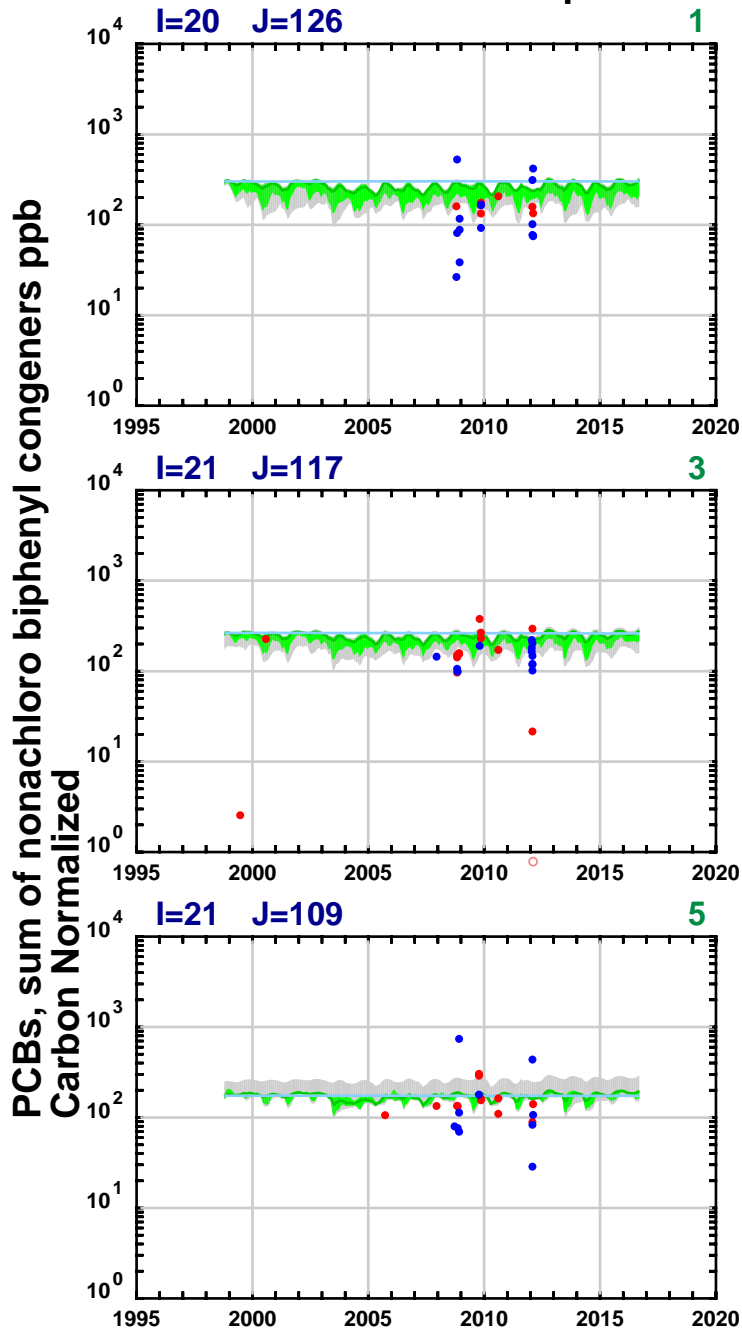
RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

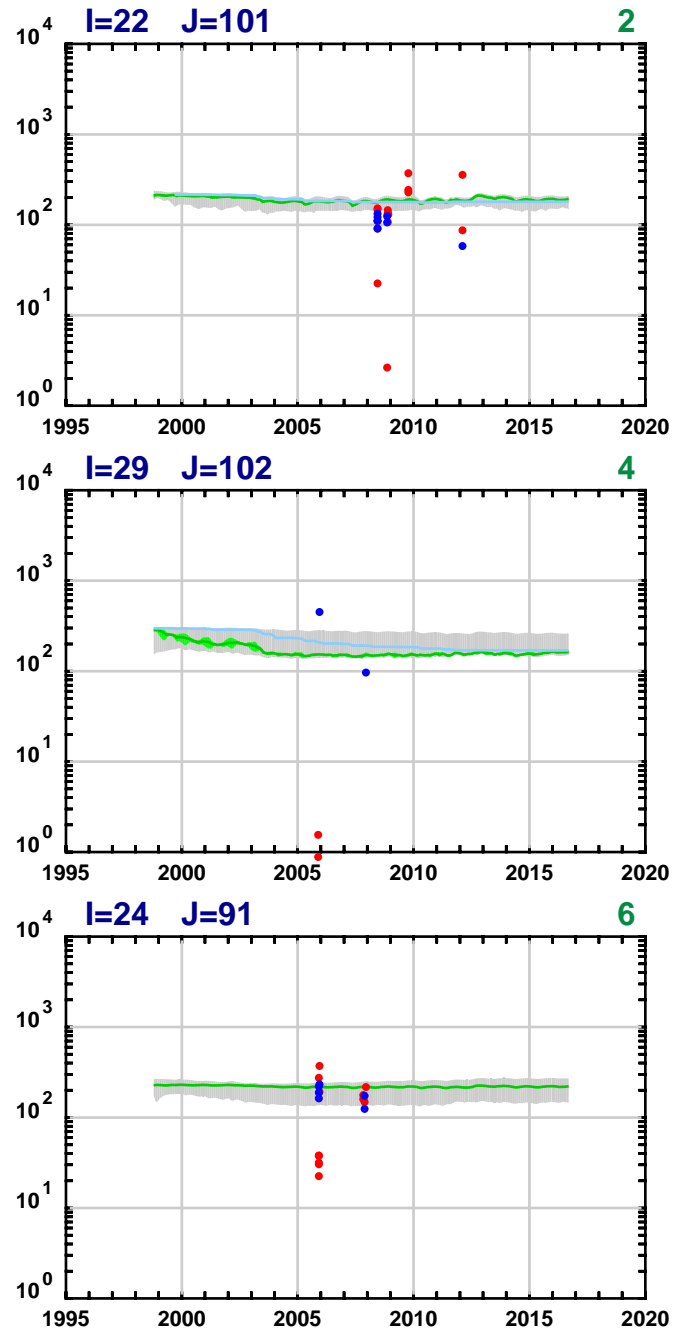
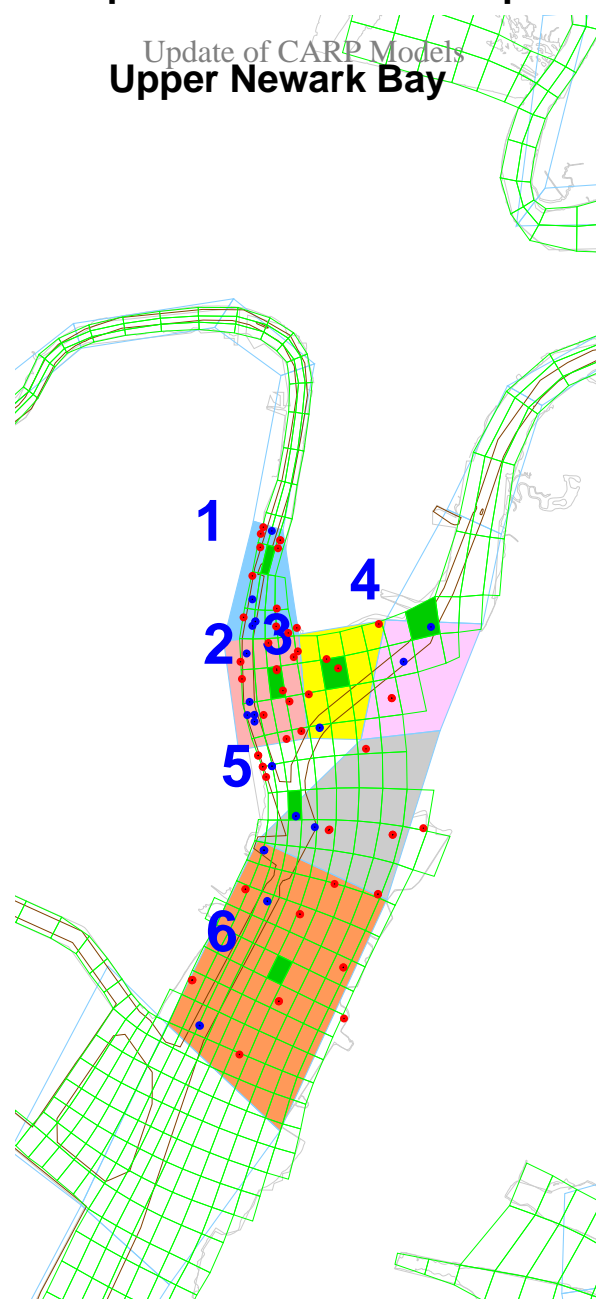
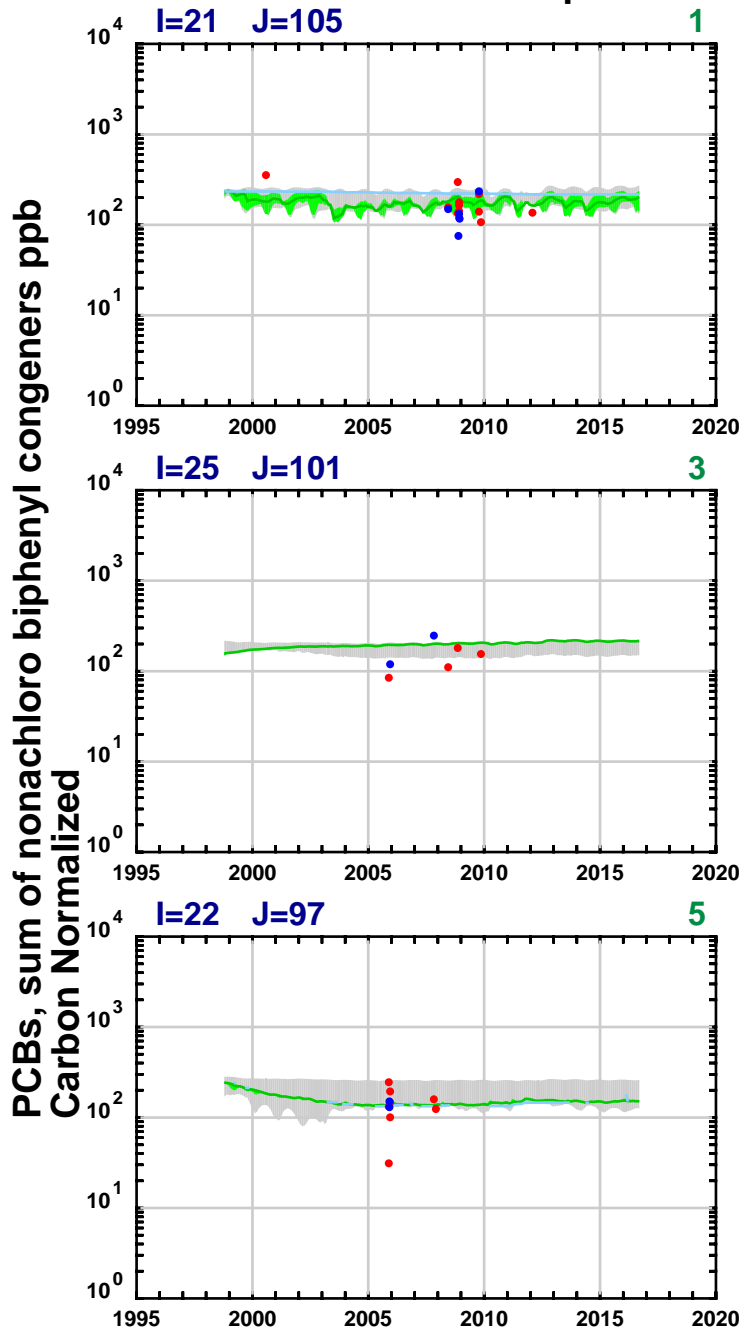


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

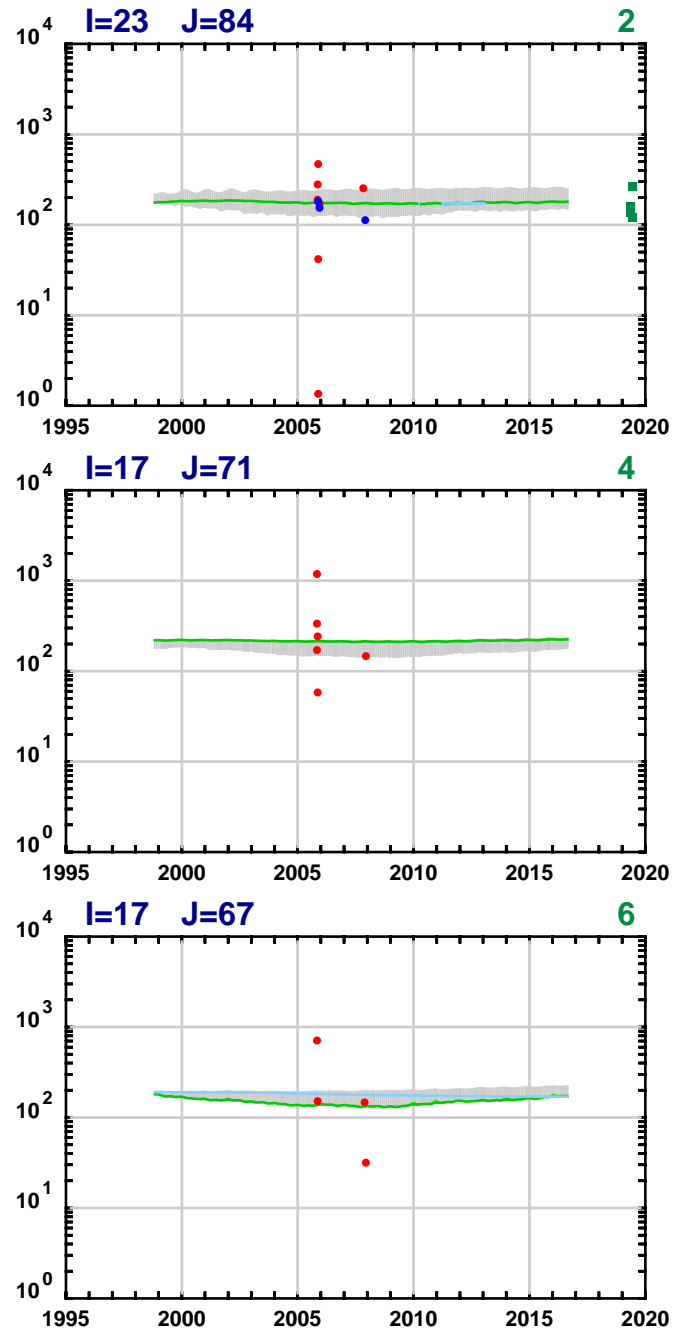
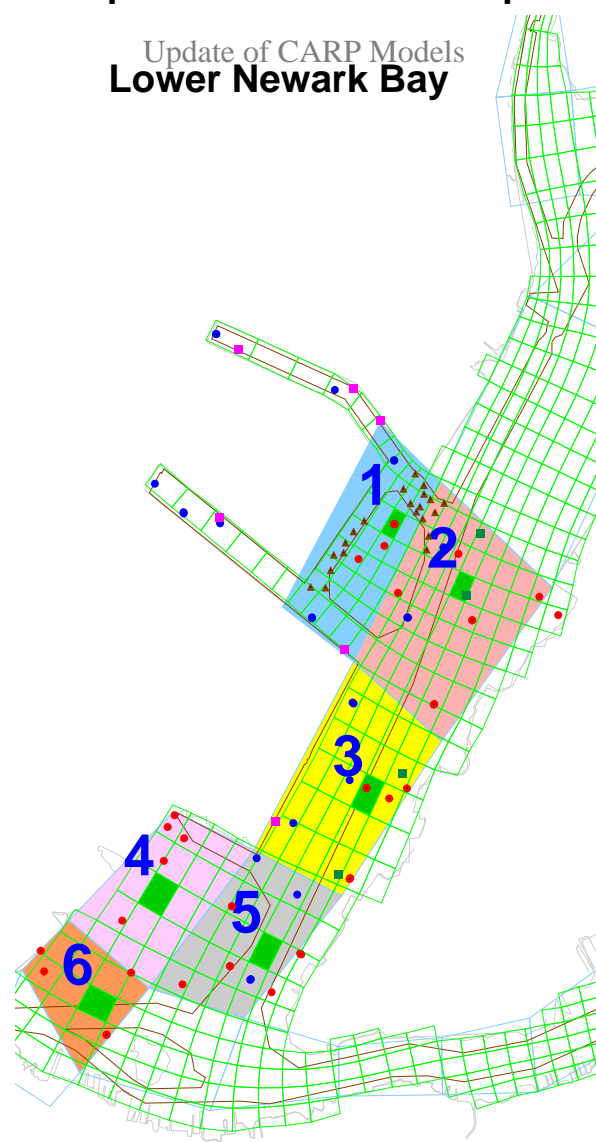
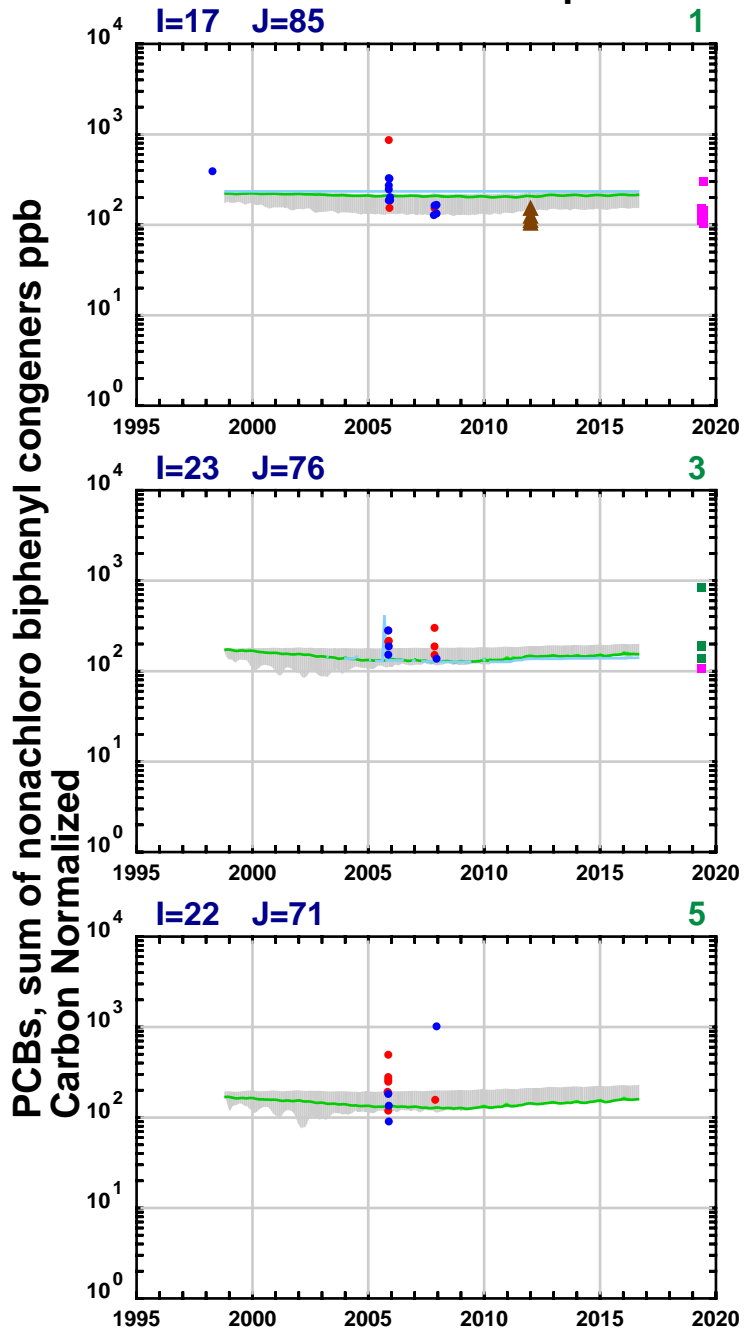


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



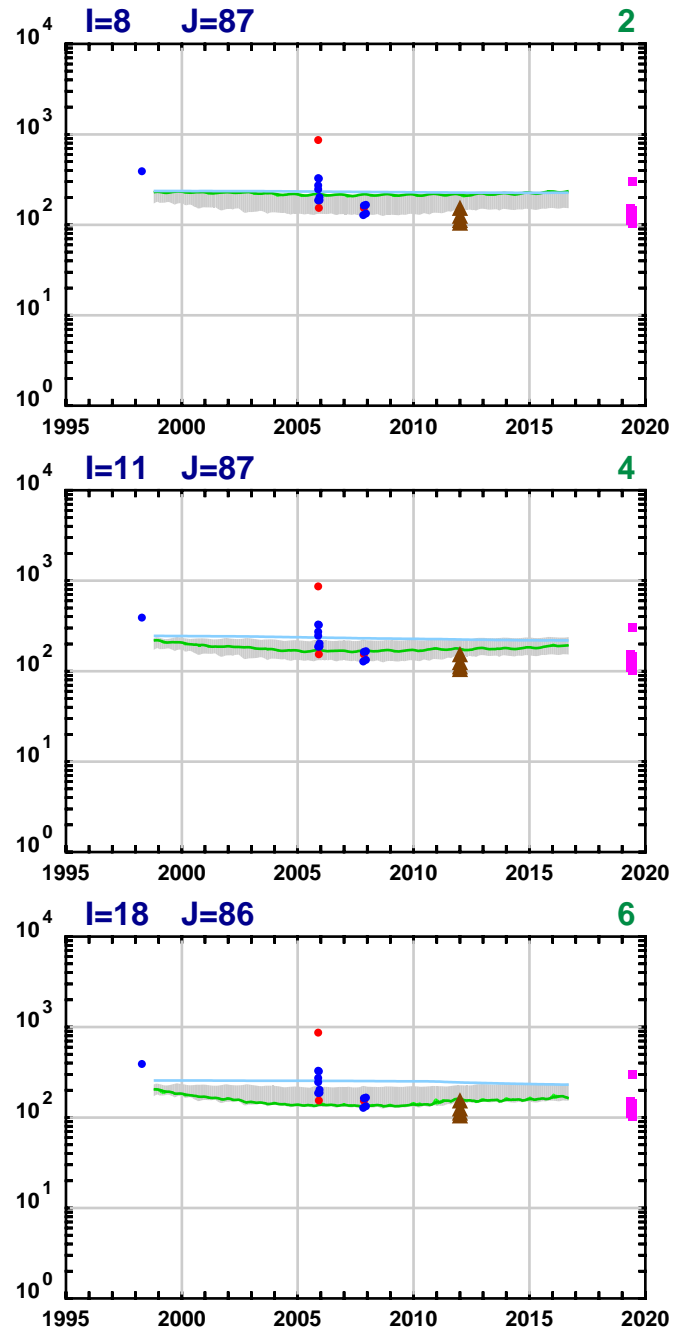
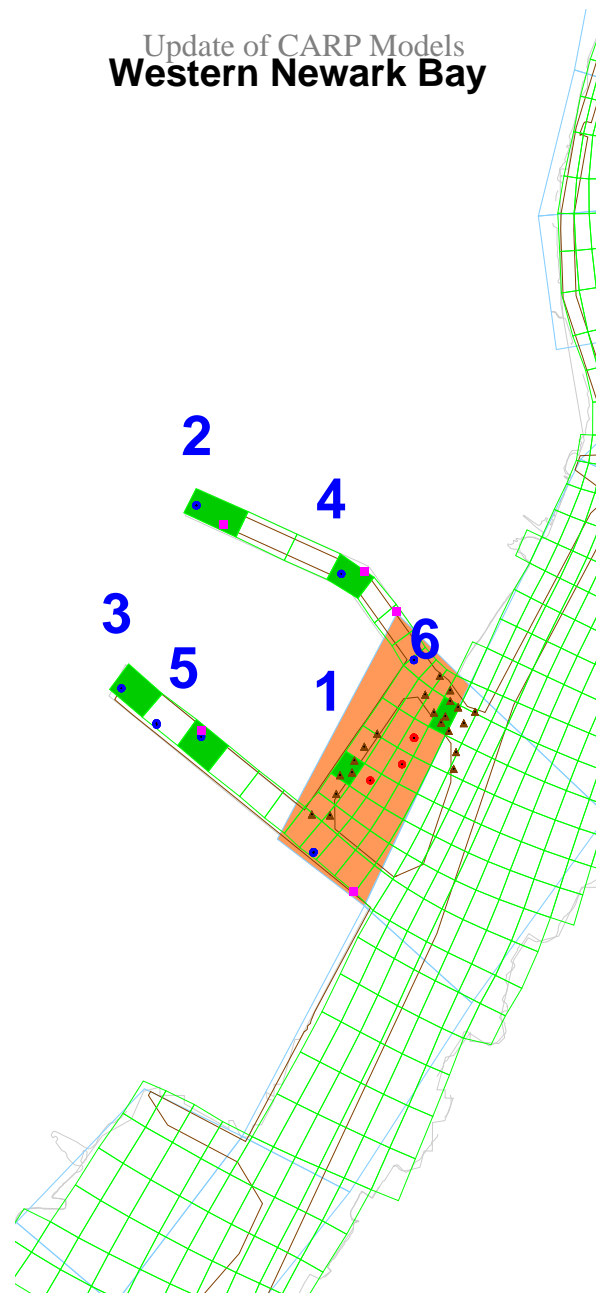
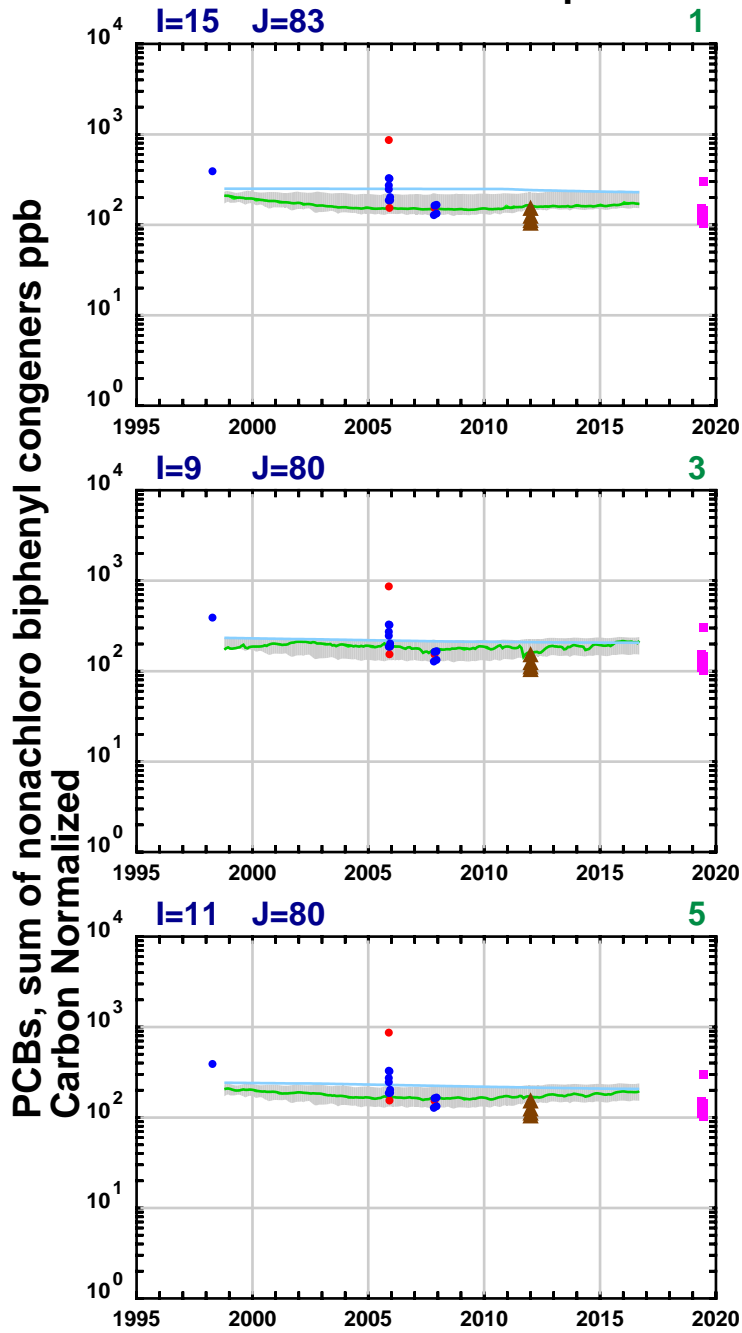
RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay



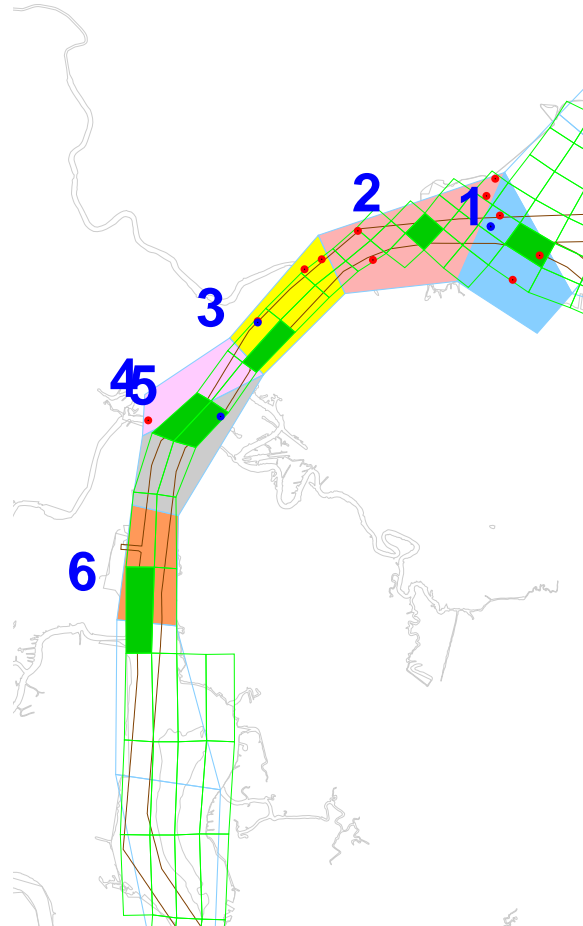
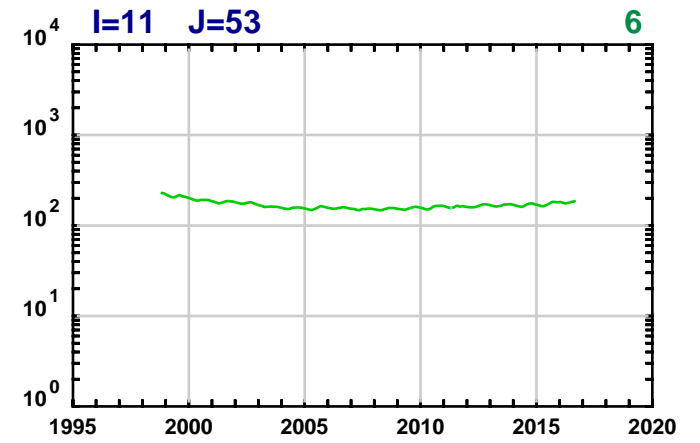
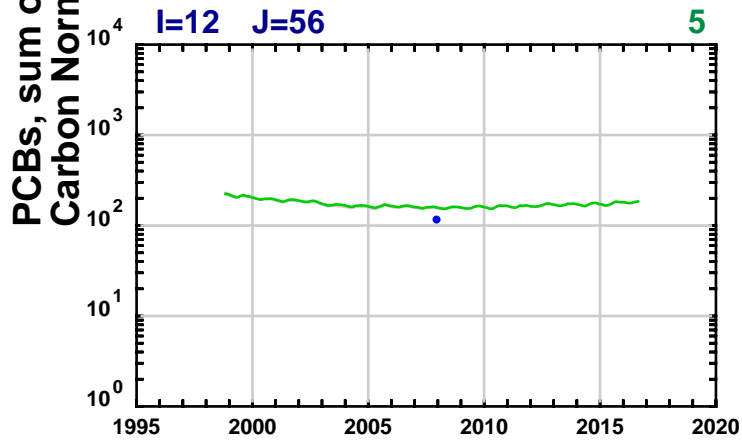
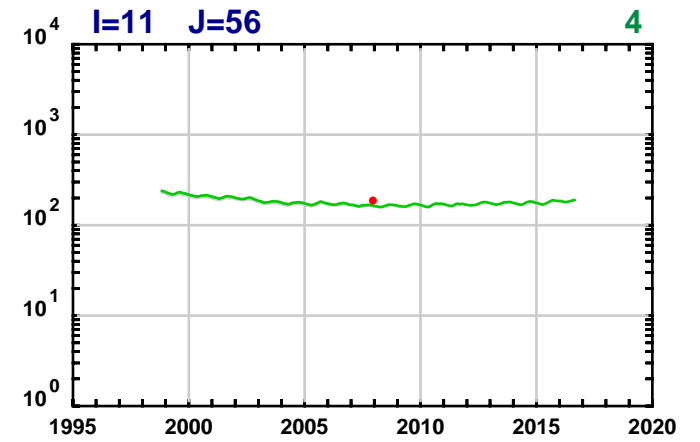
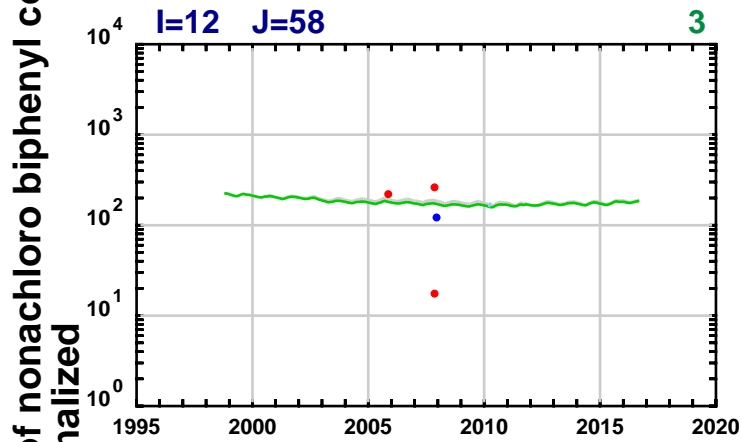
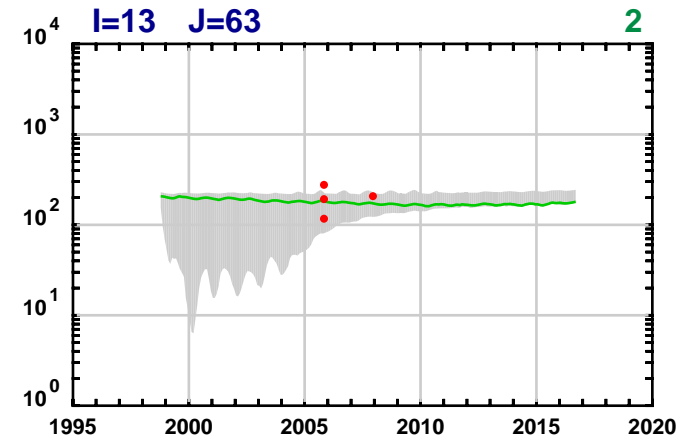
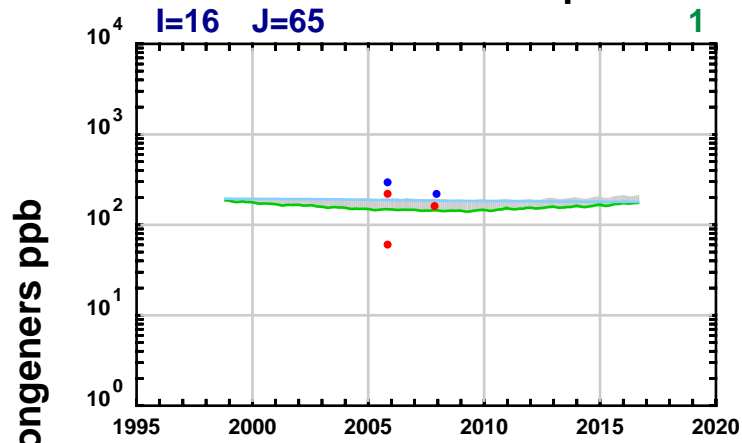
RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

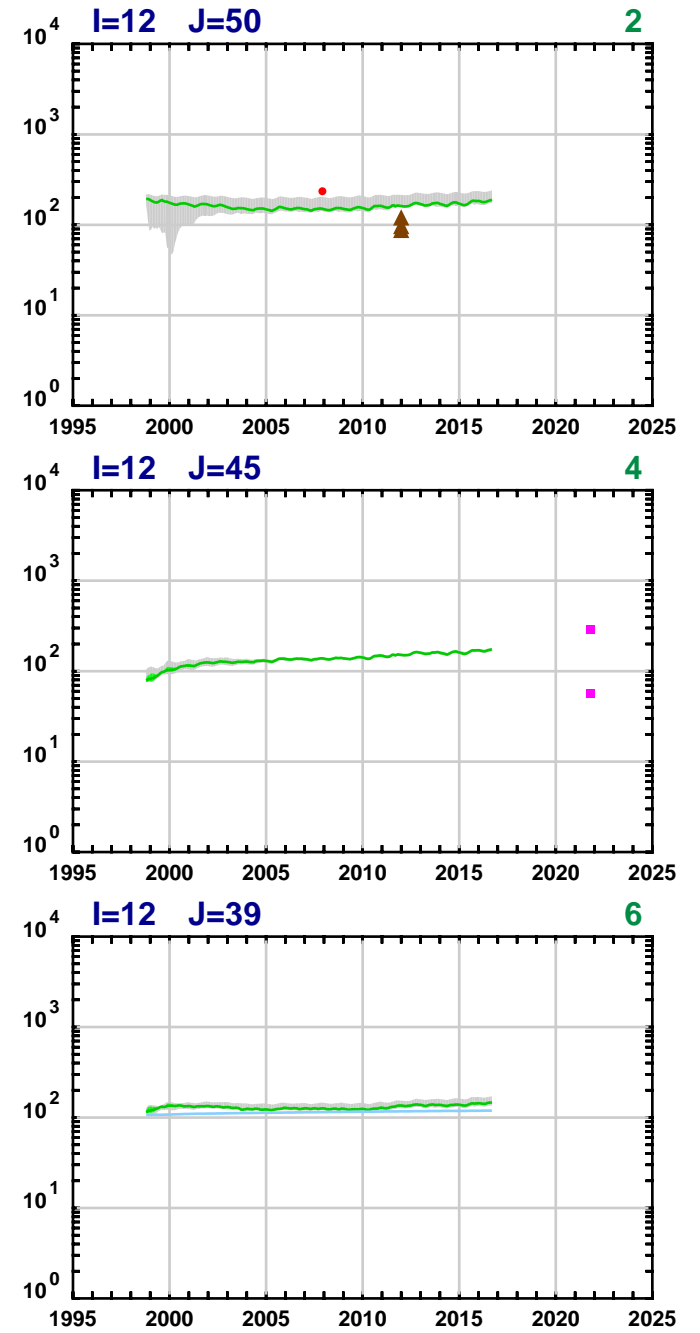
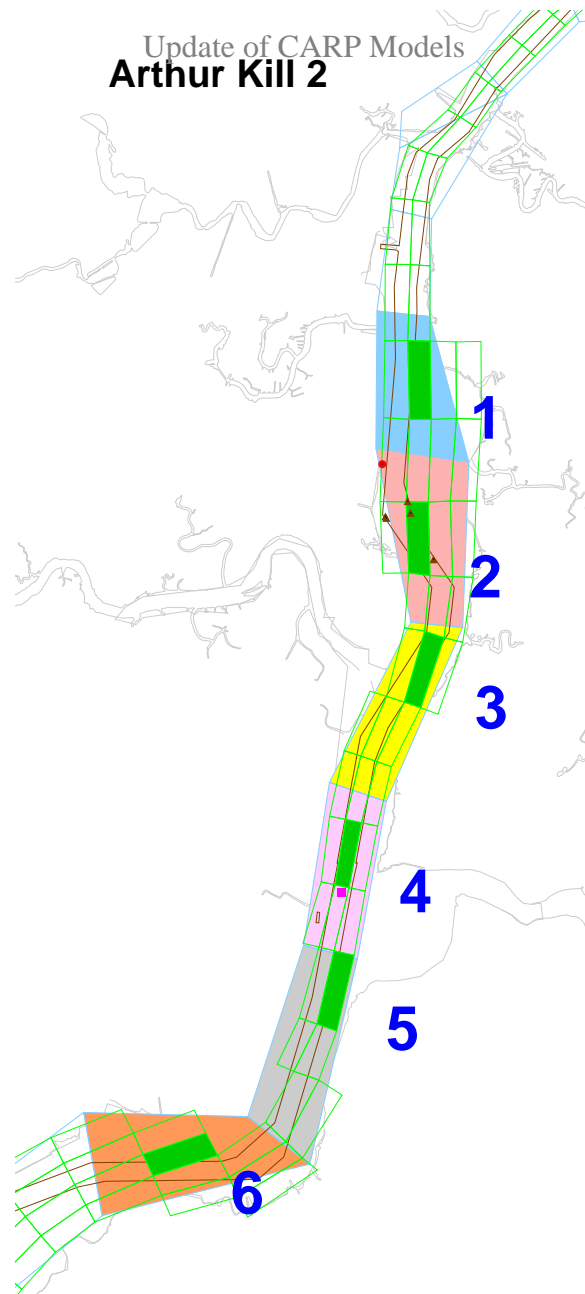
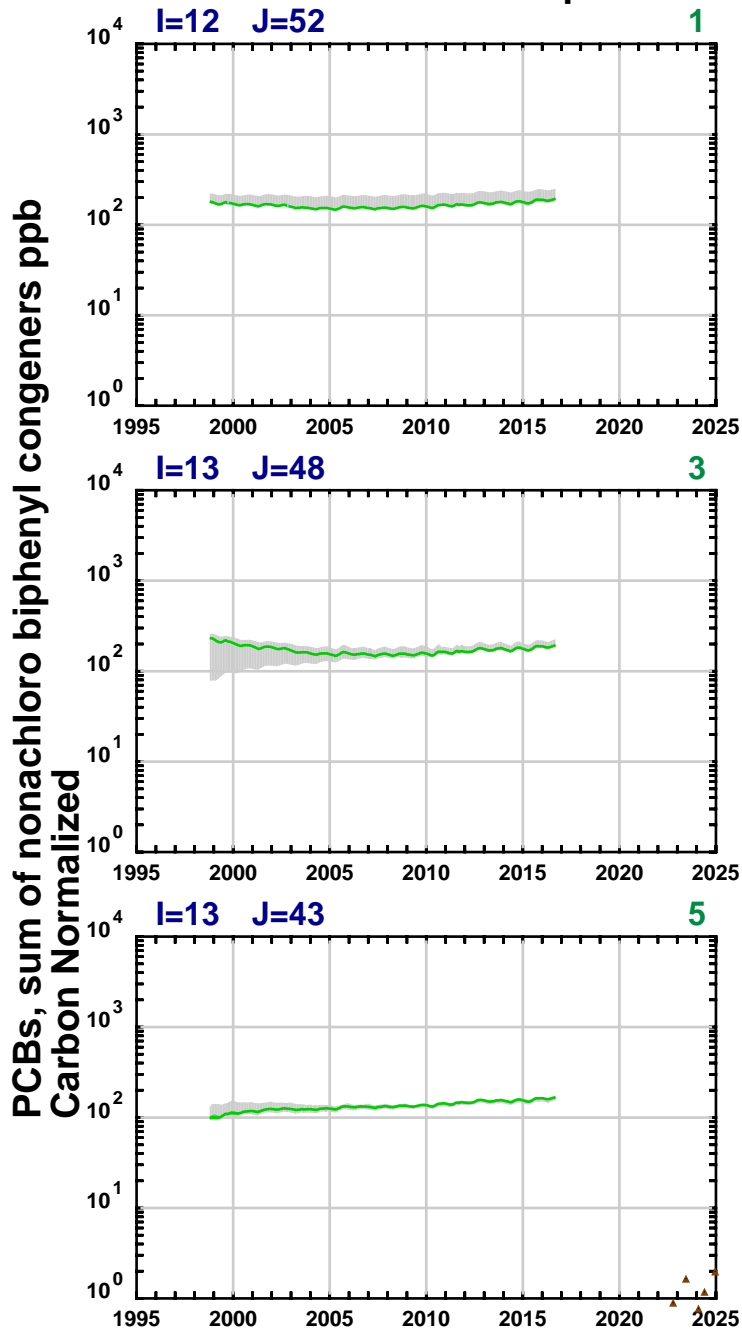


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

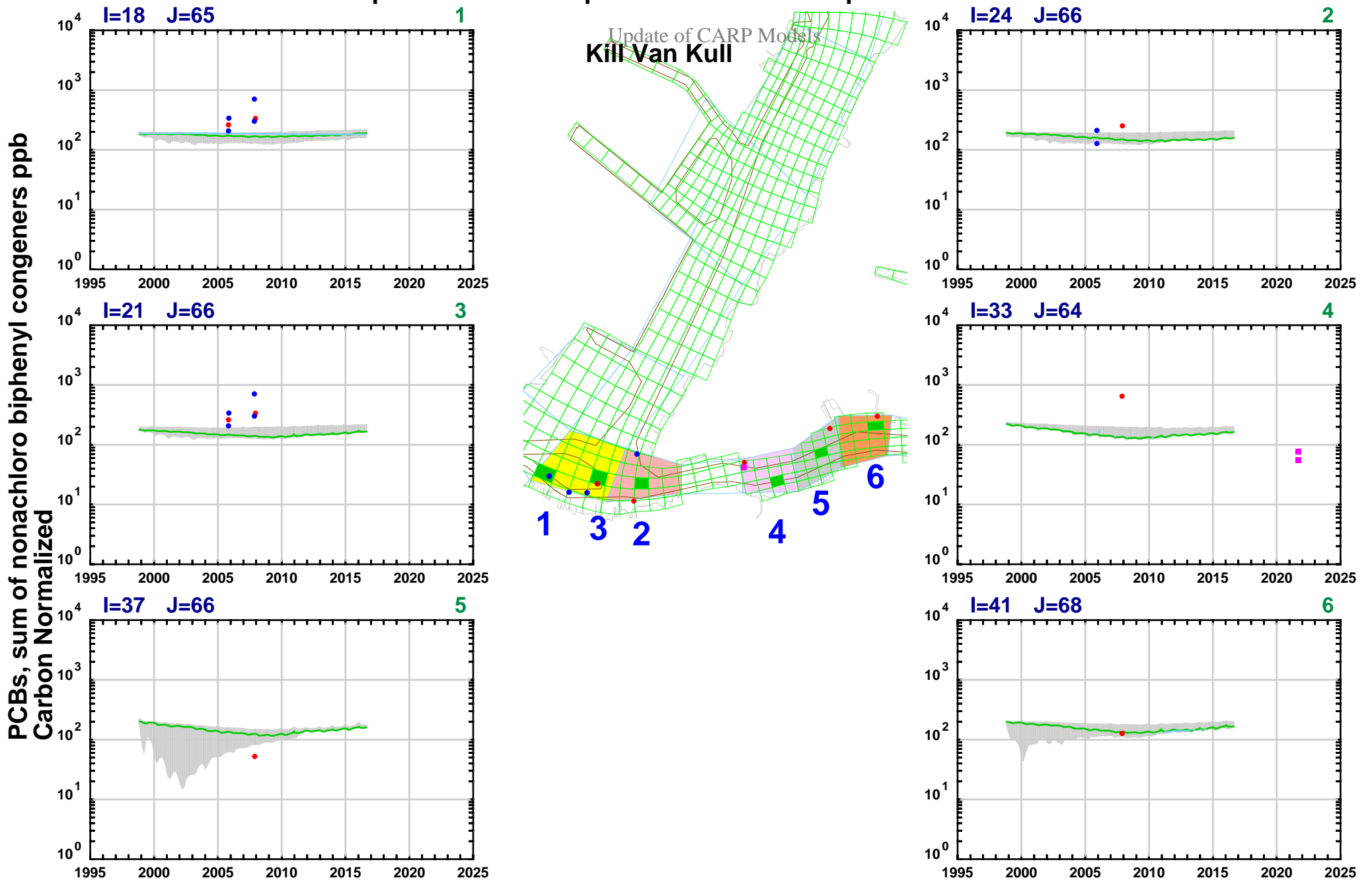


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



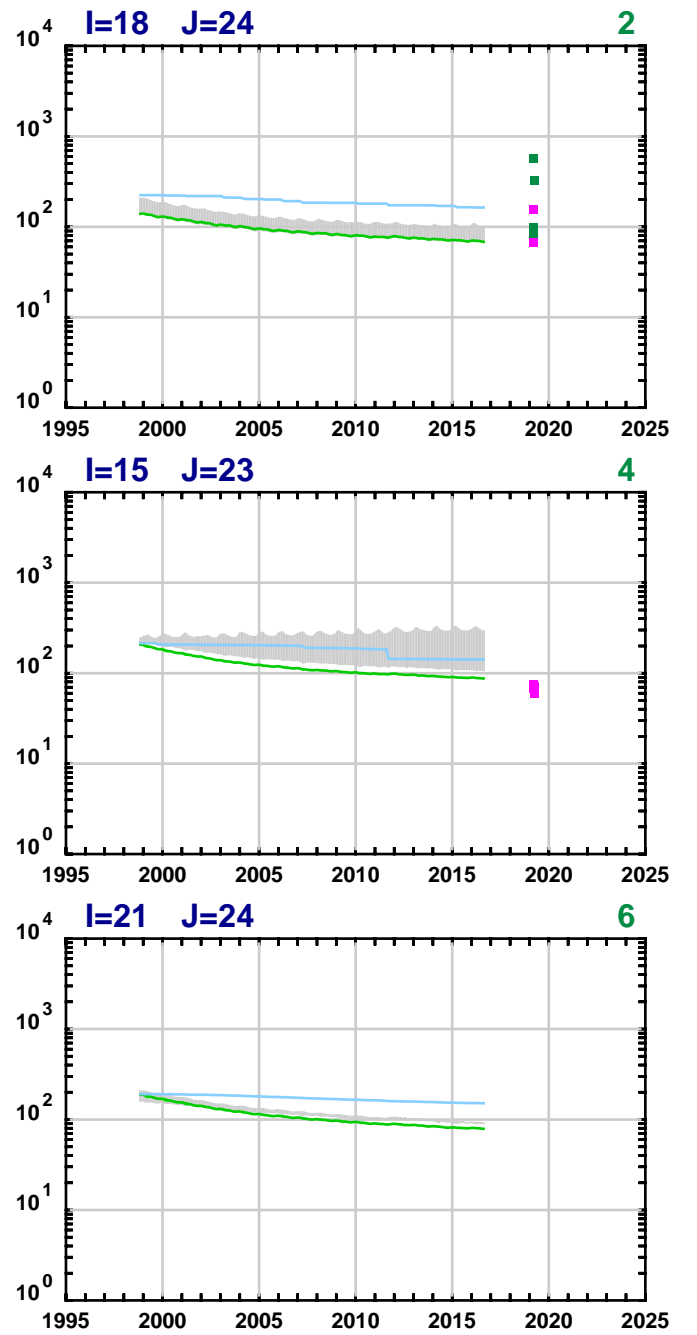
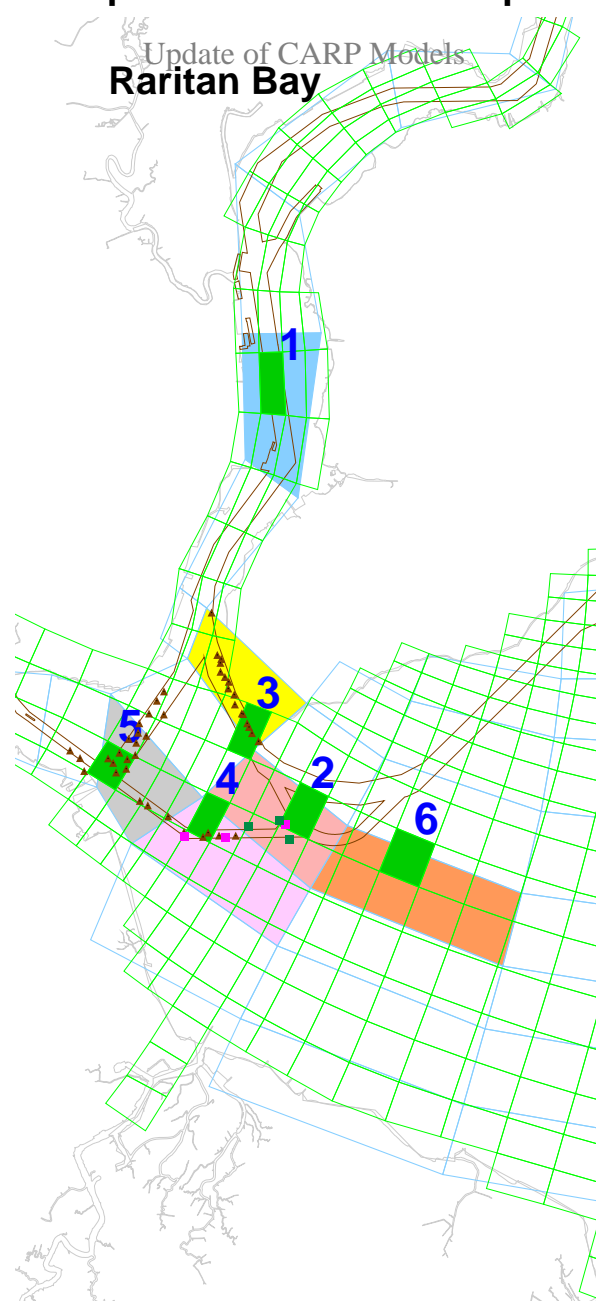
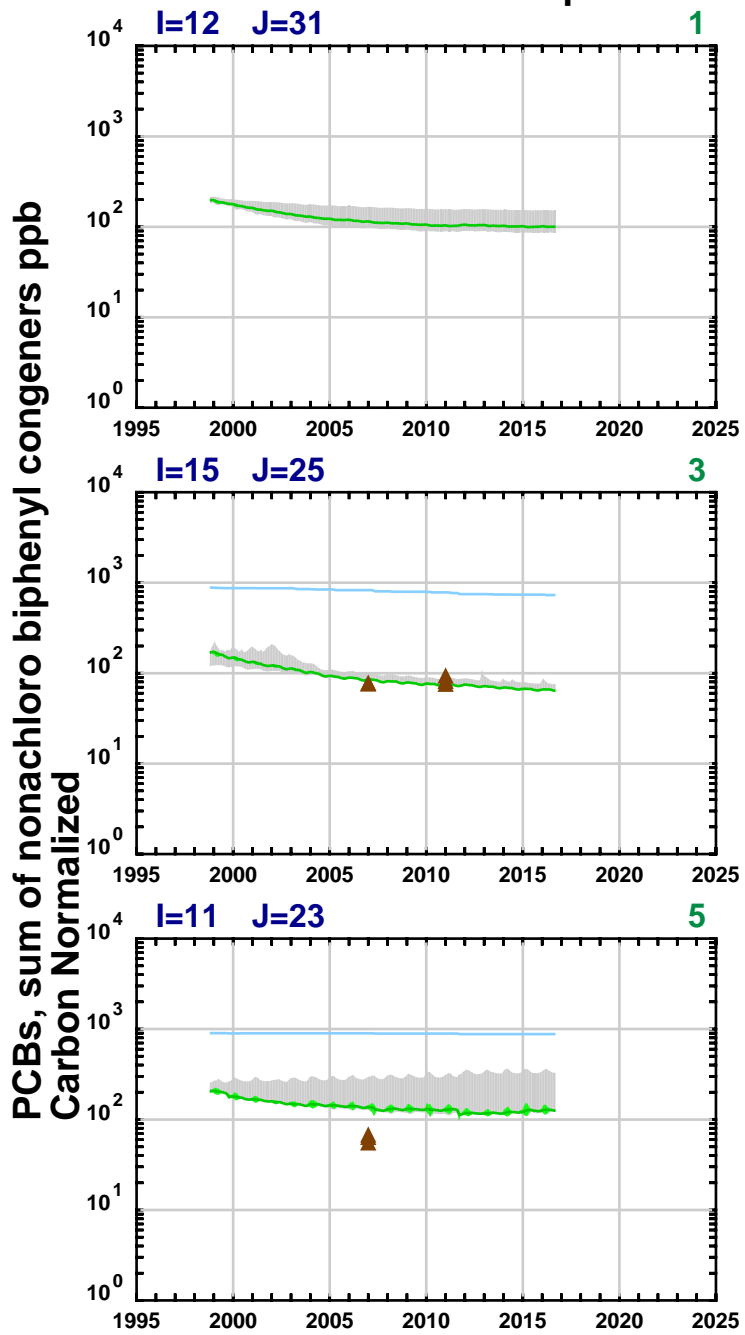
RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

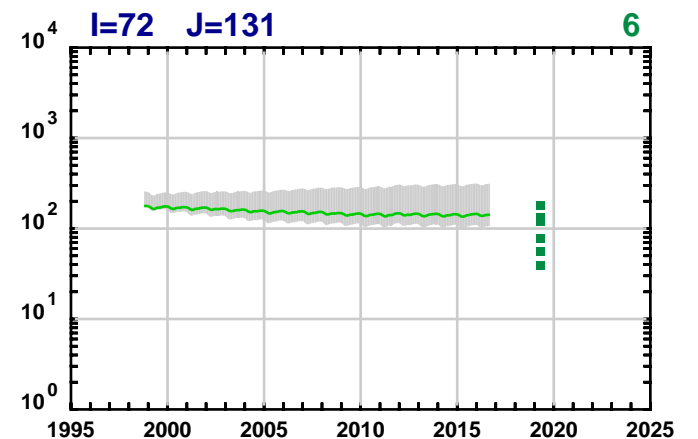
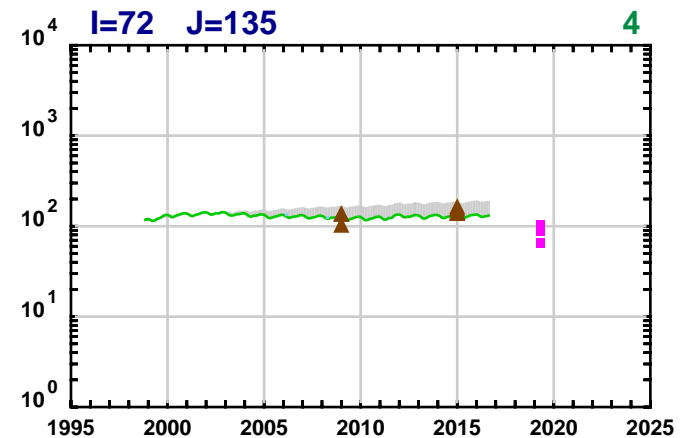
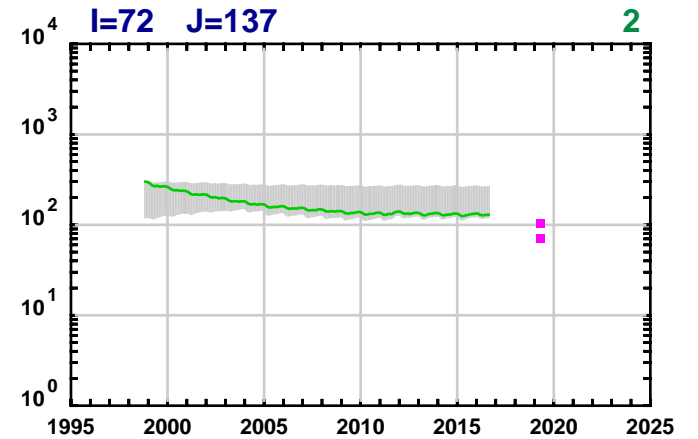
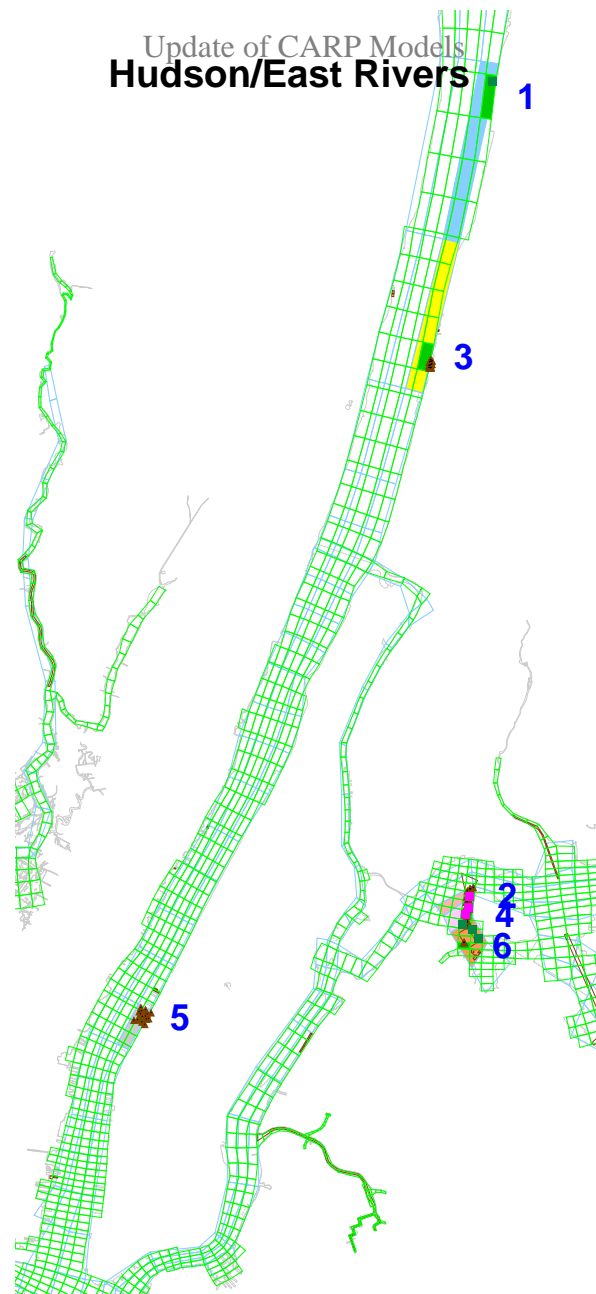
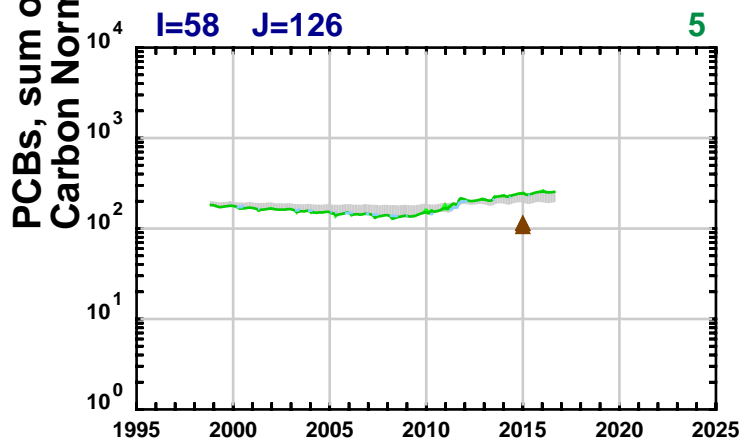
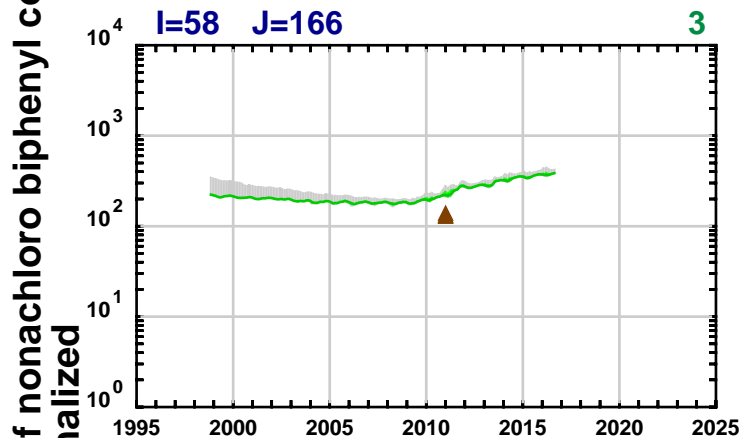
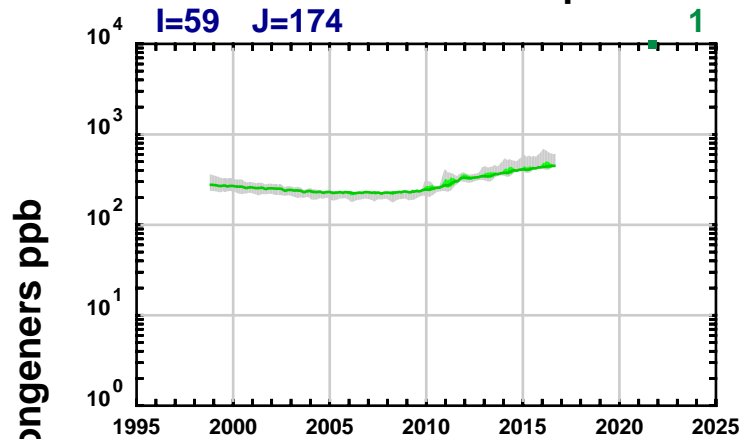


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

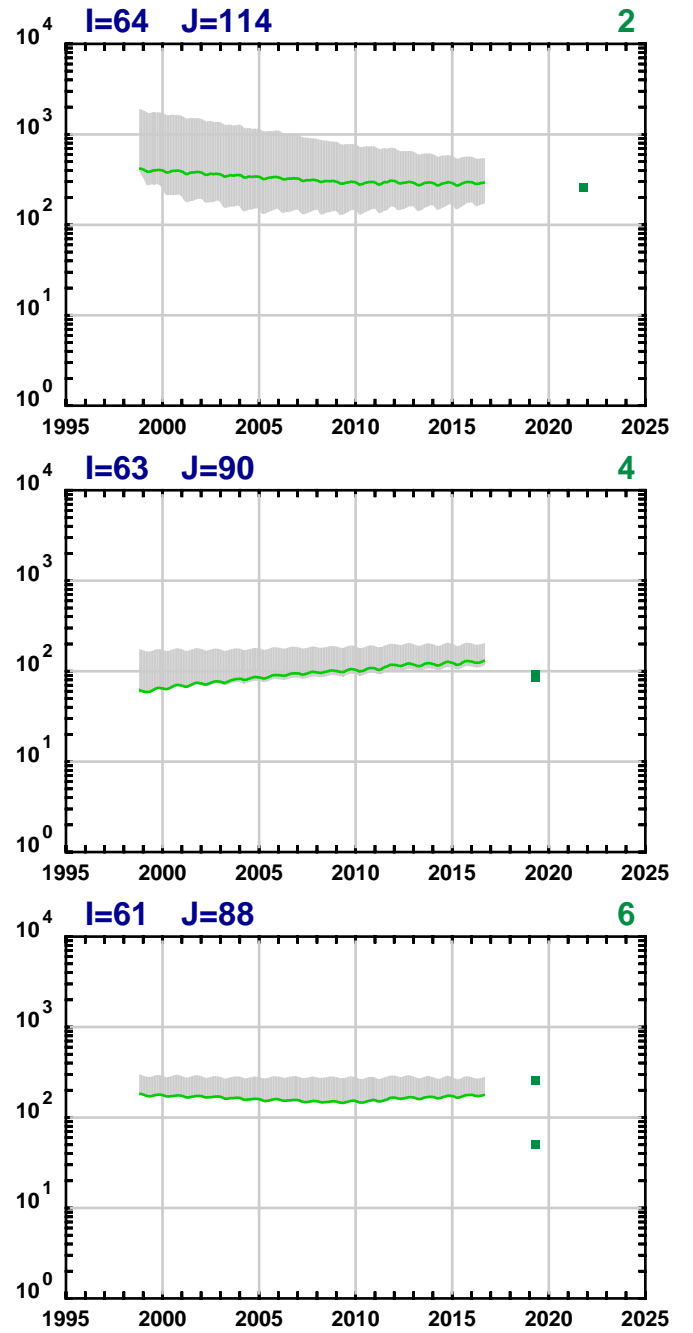
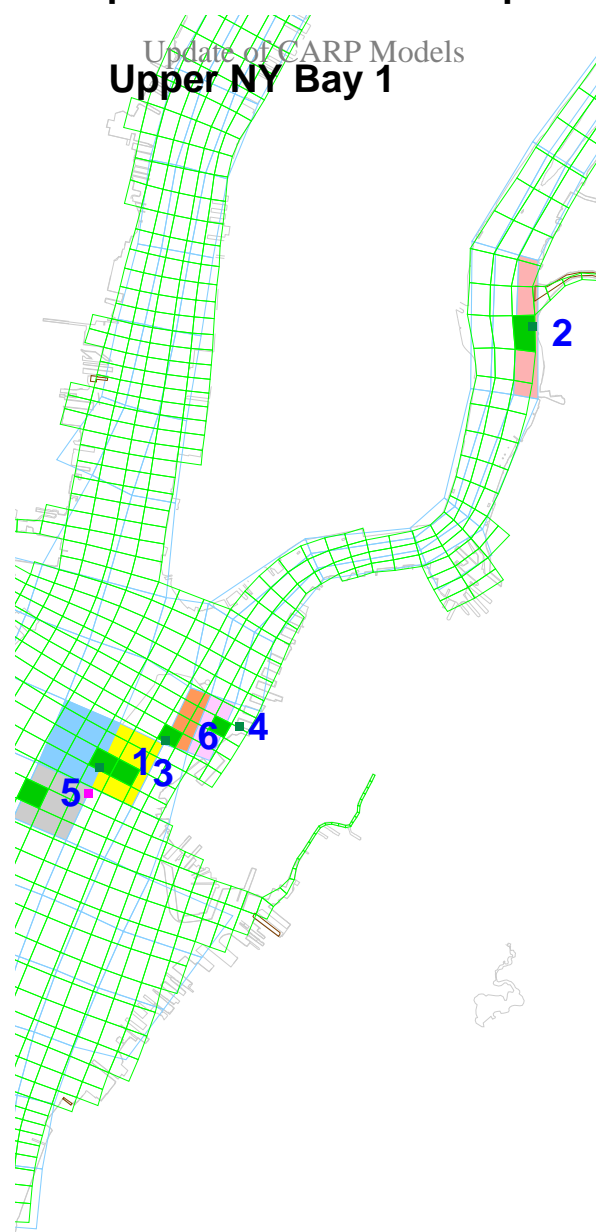
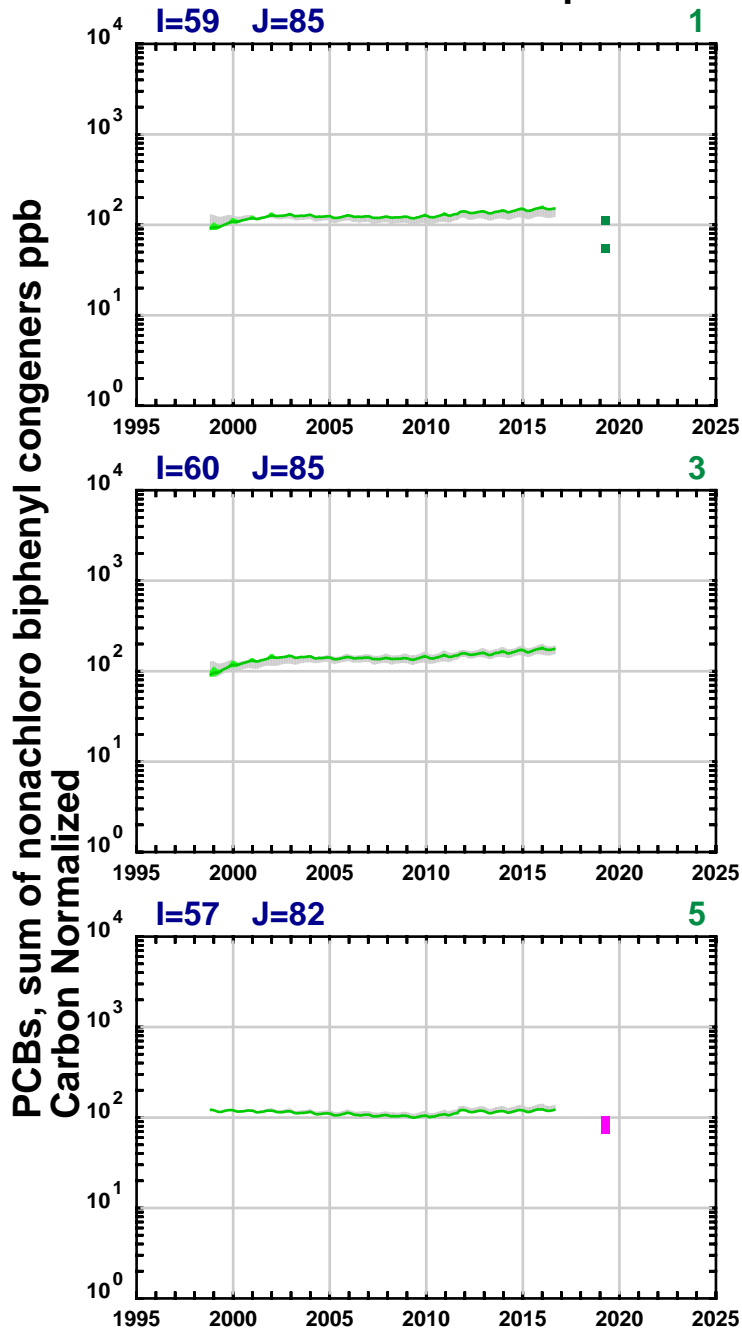


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

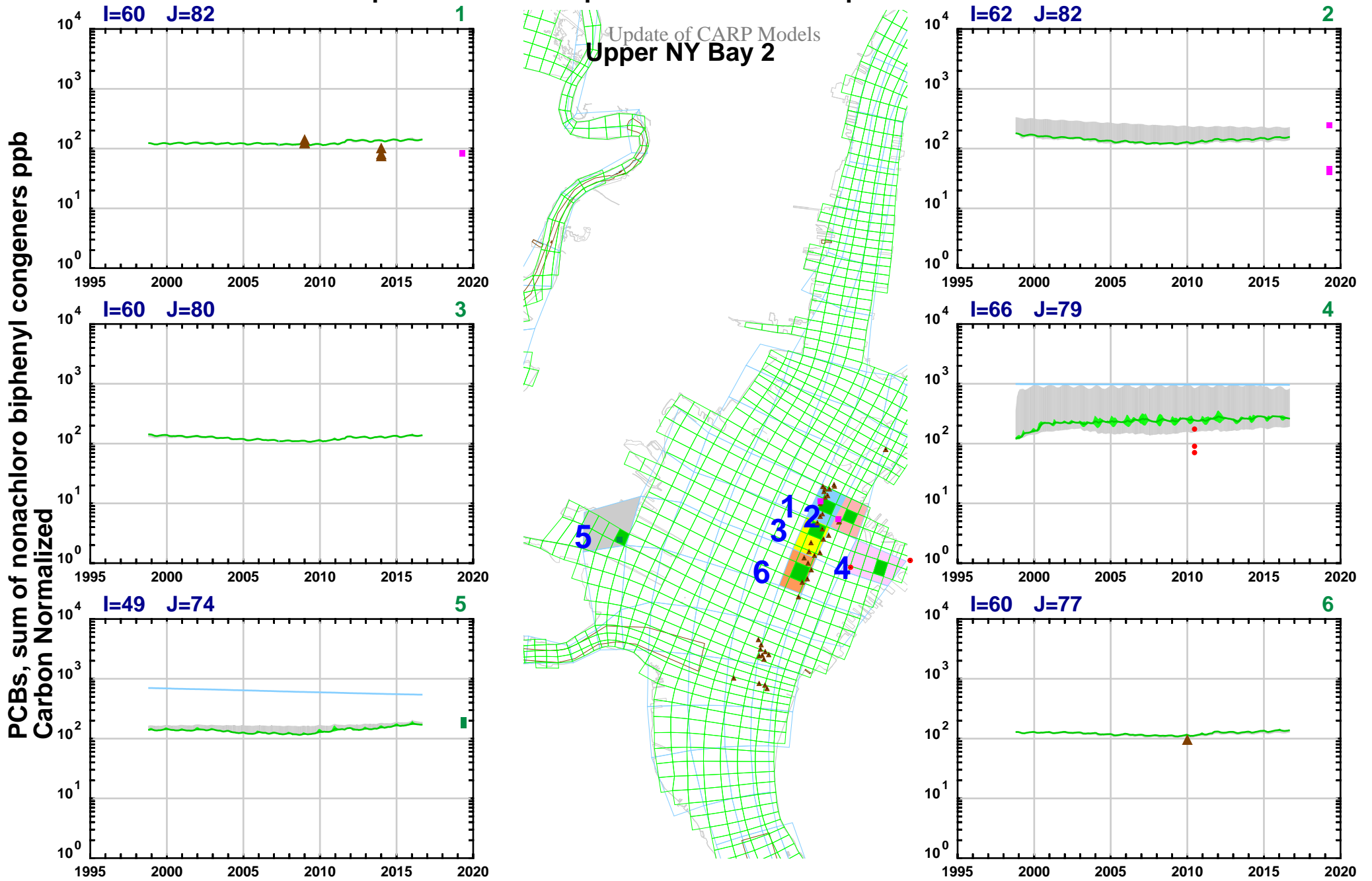


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

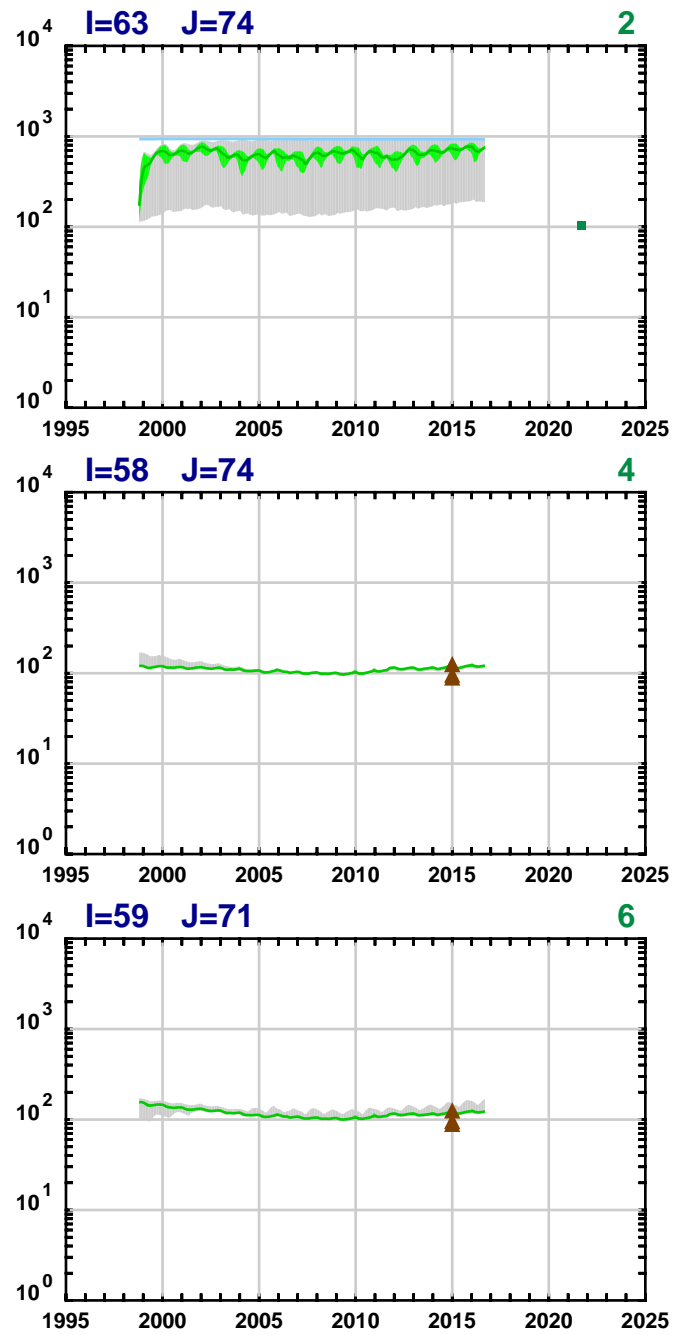
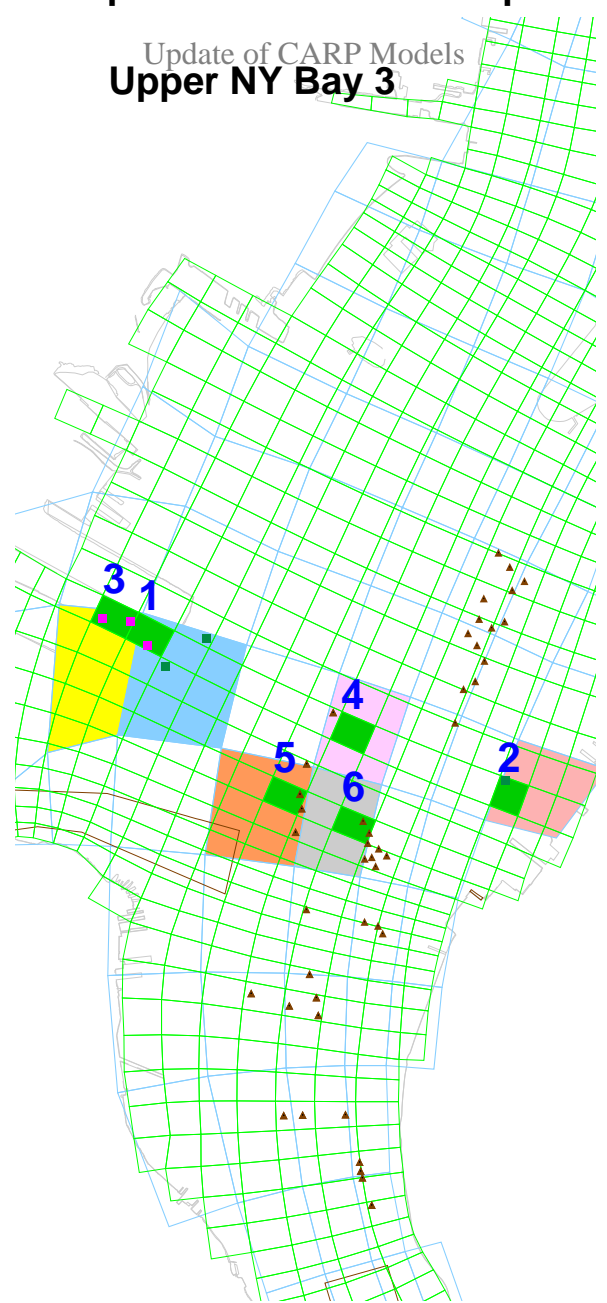
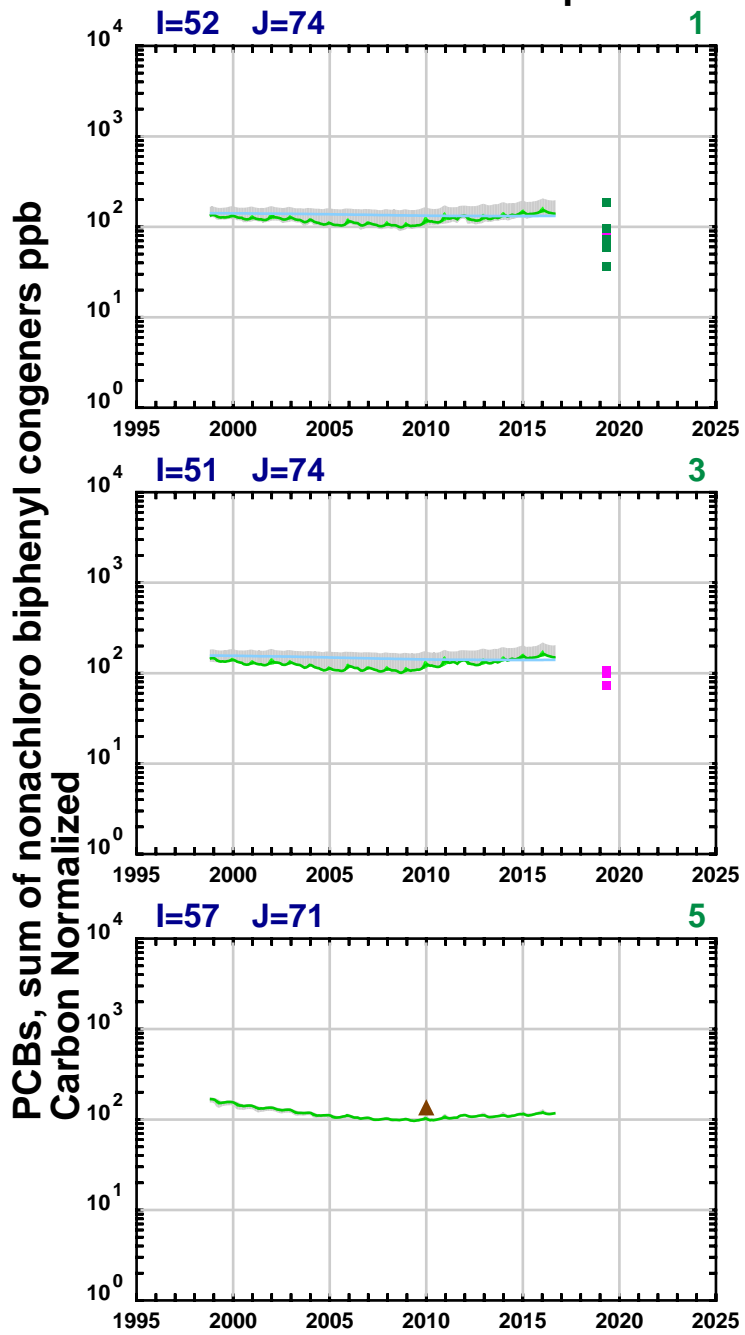


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

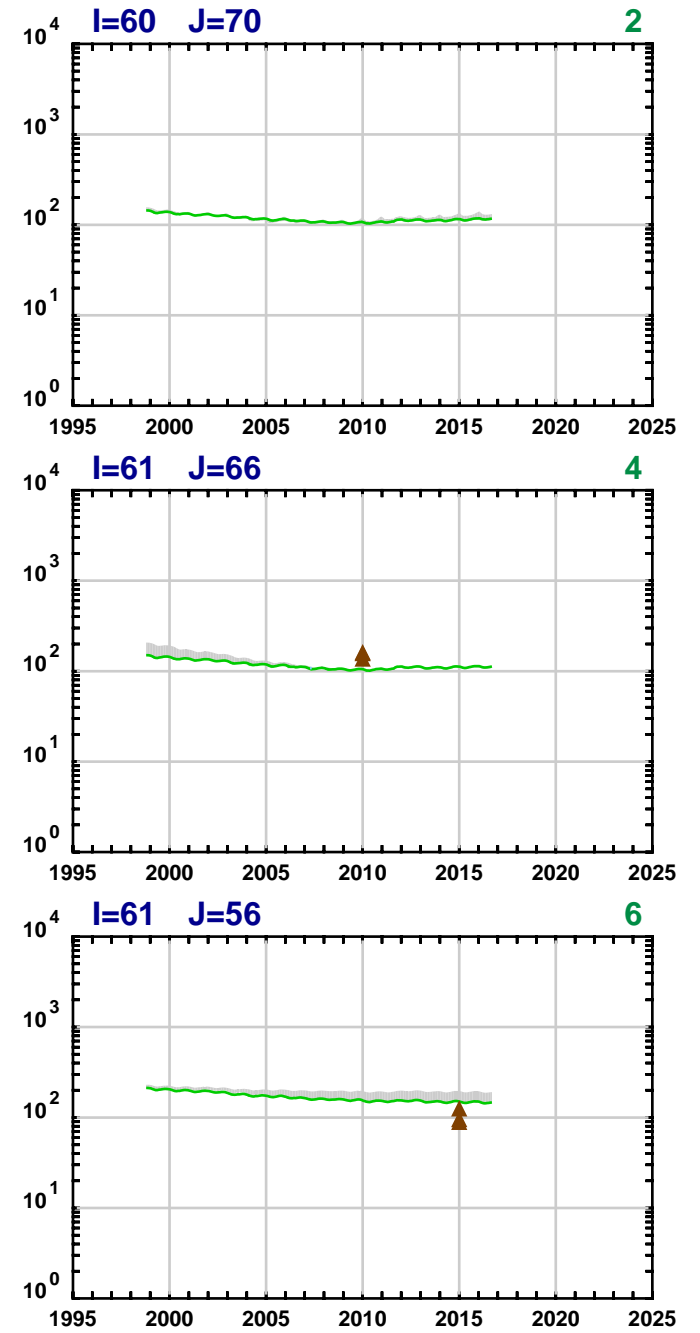
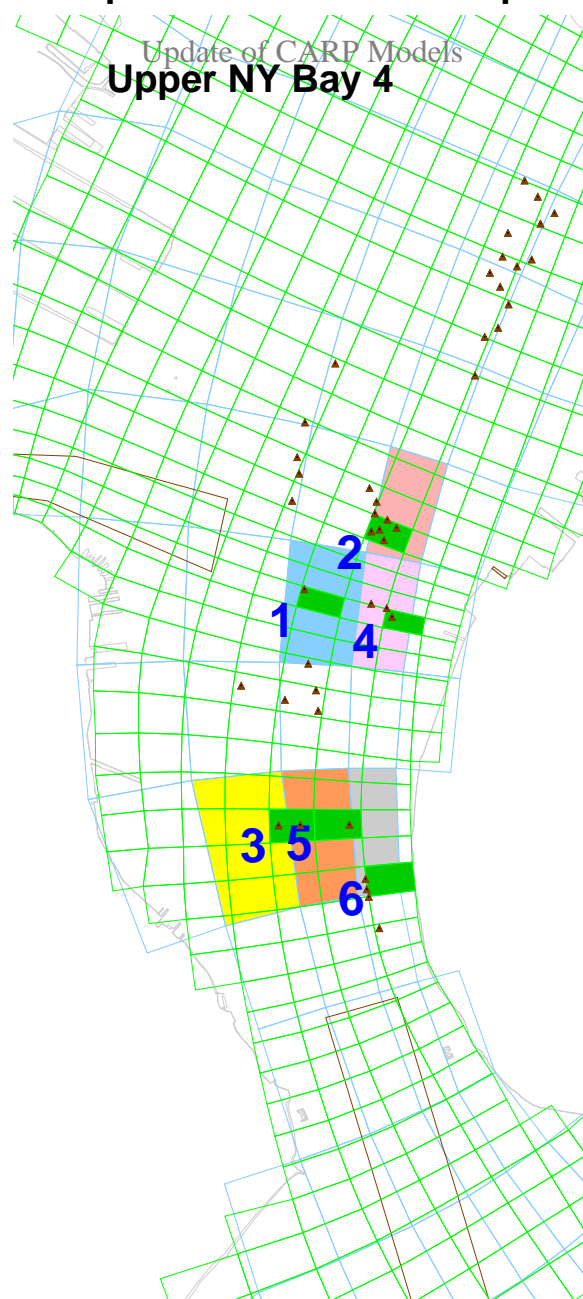
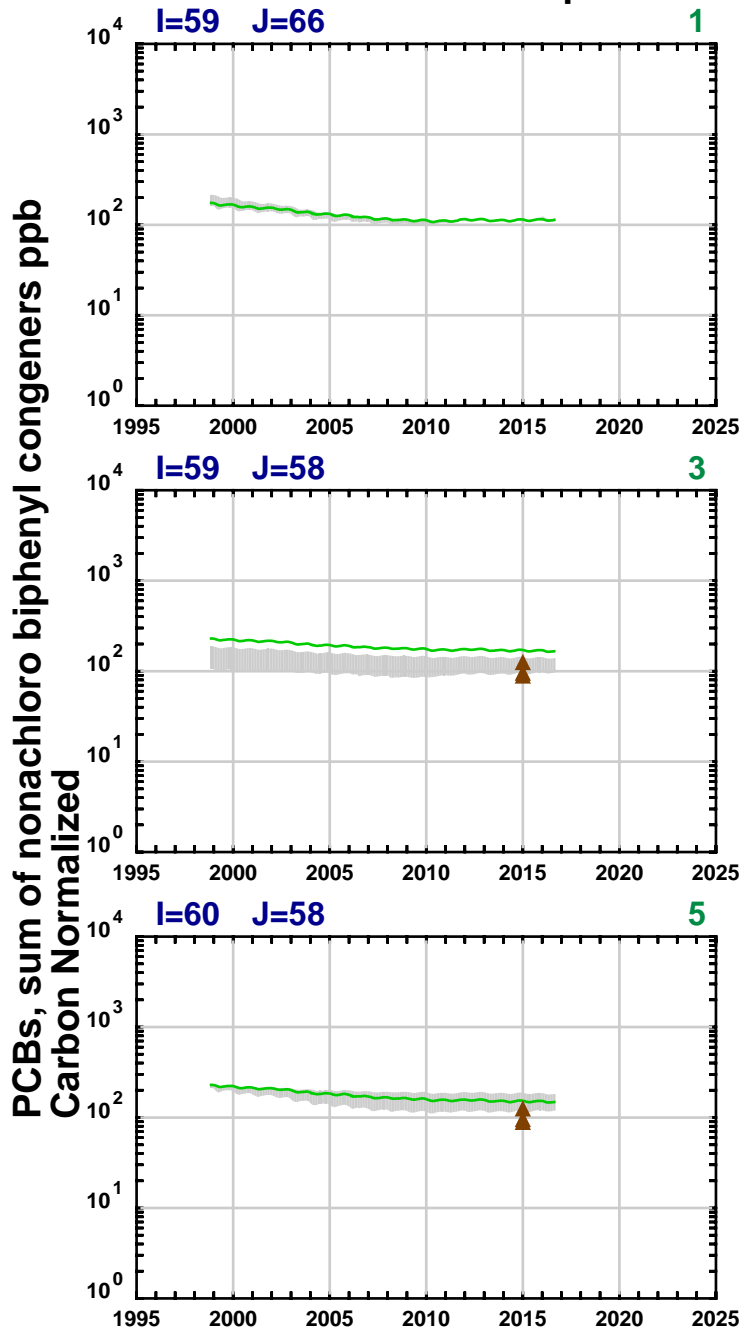


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



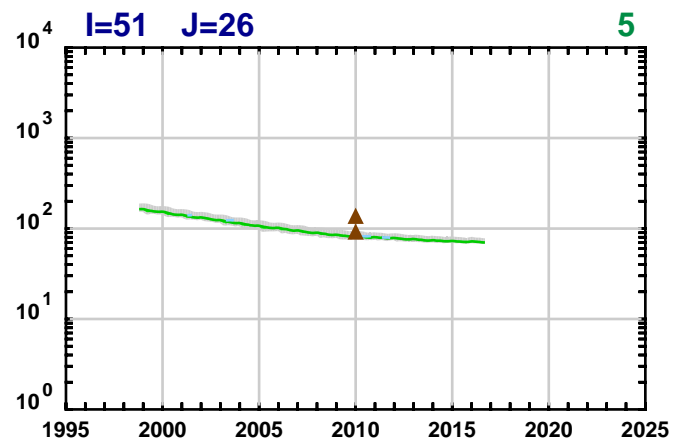
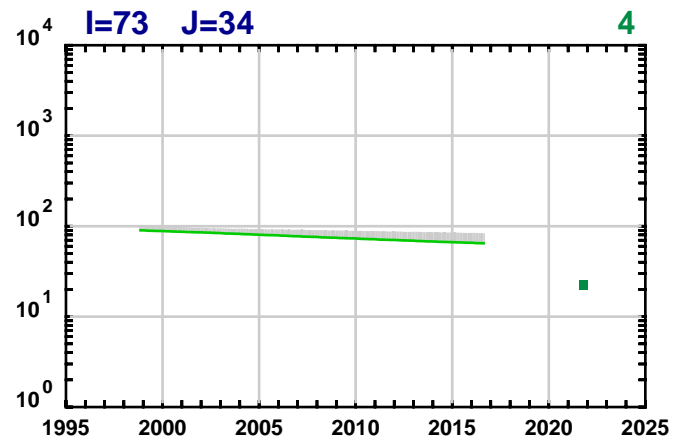
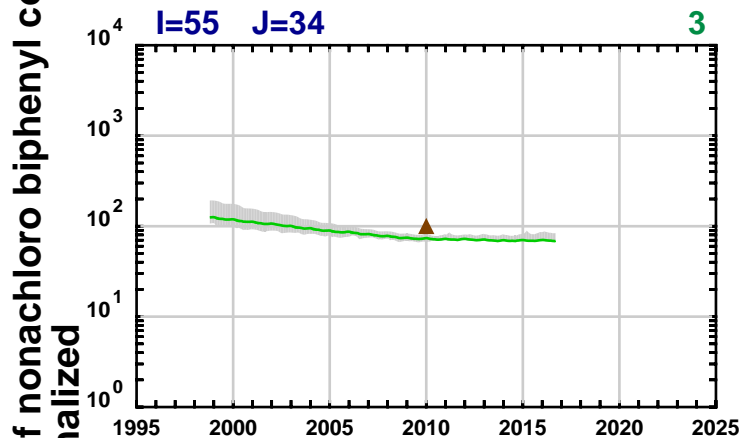
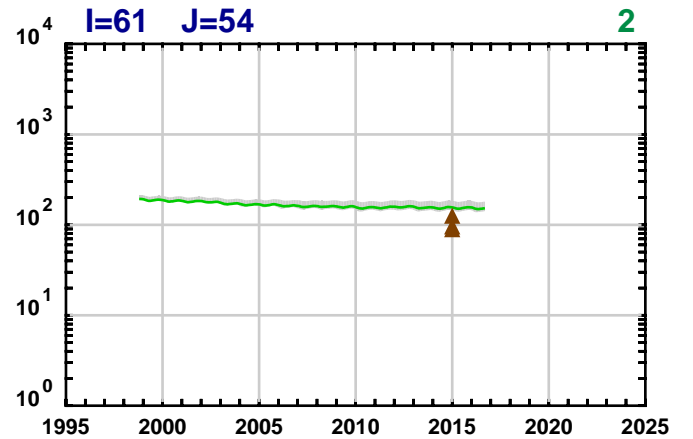
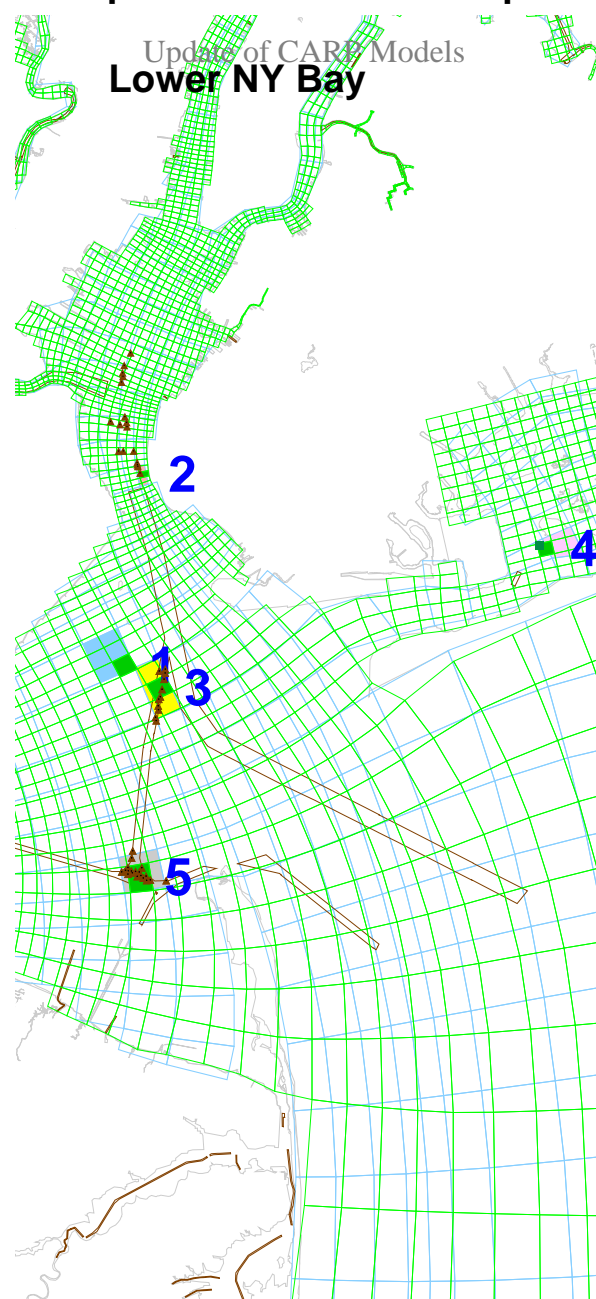
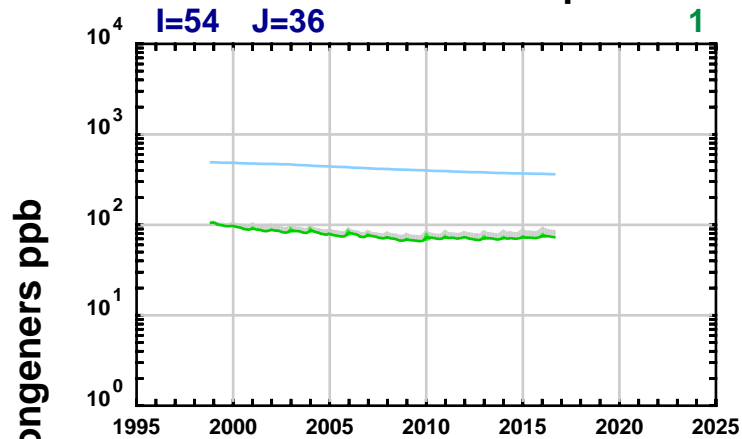
RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



**RUN18\_S2**

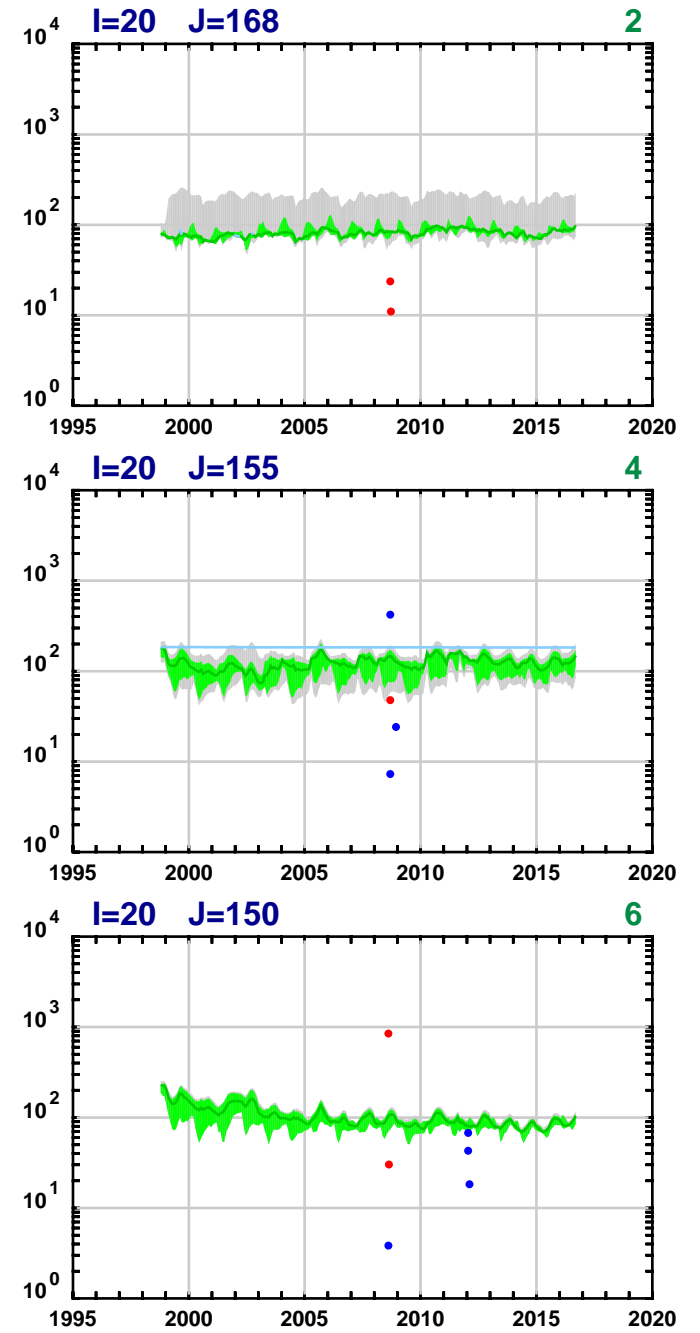
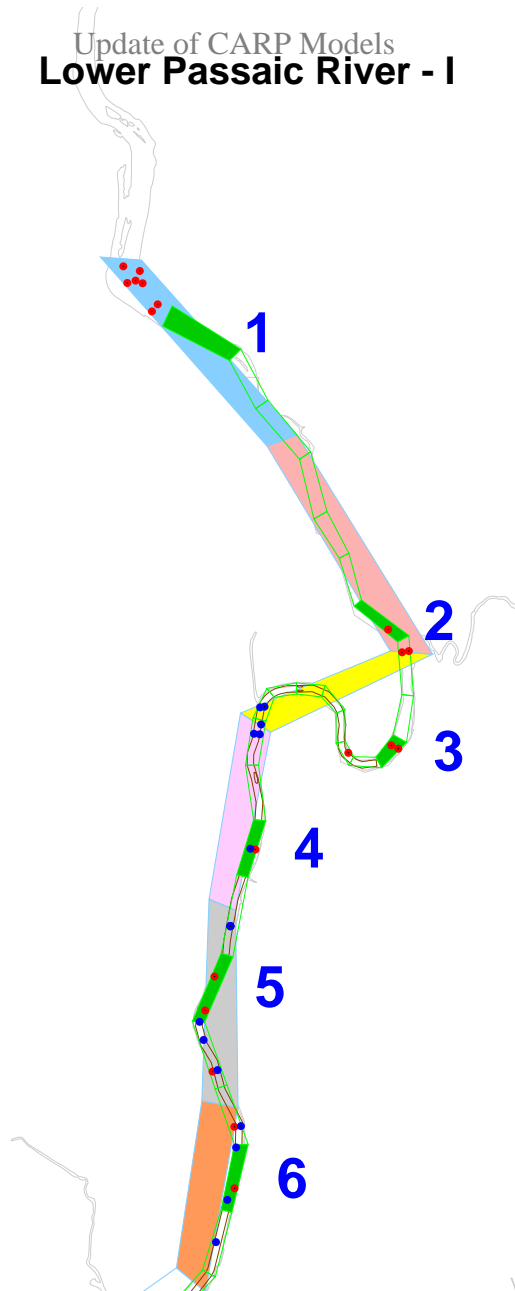
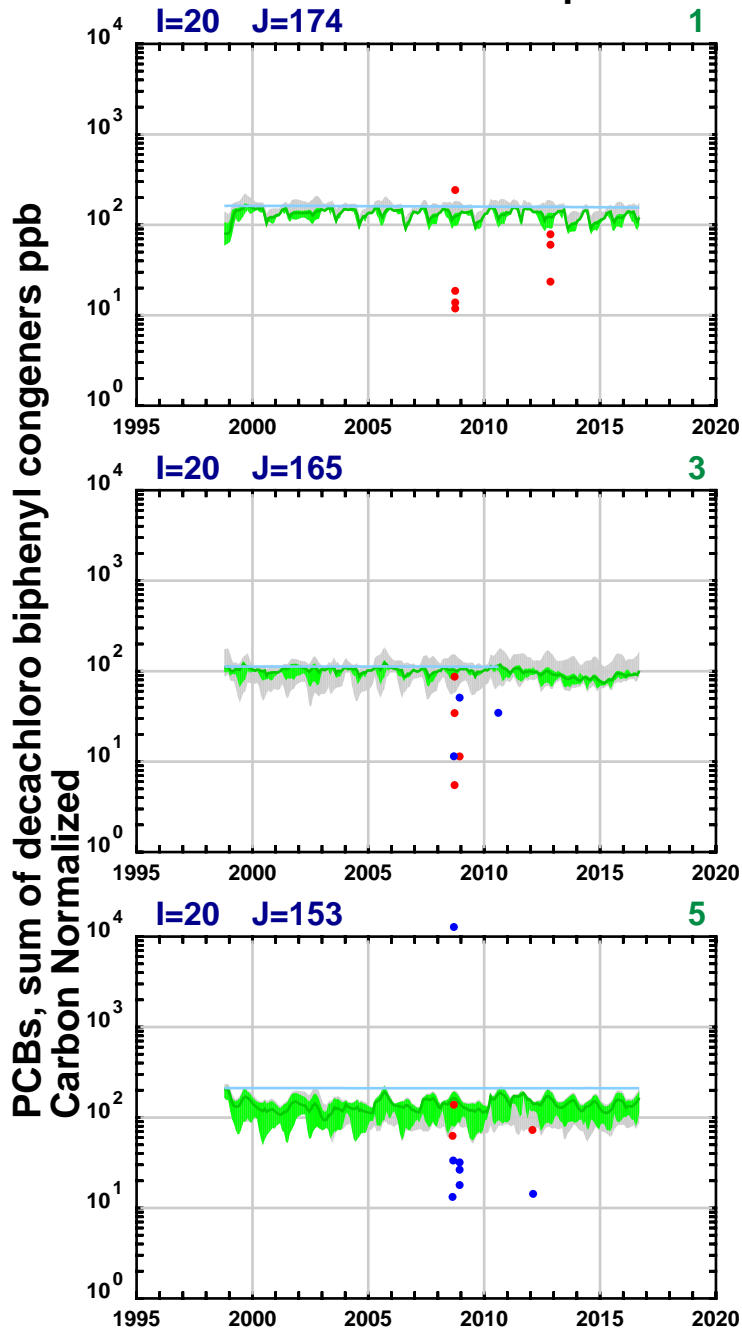
**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

## Update of CARP Models Lower Passaic River - I

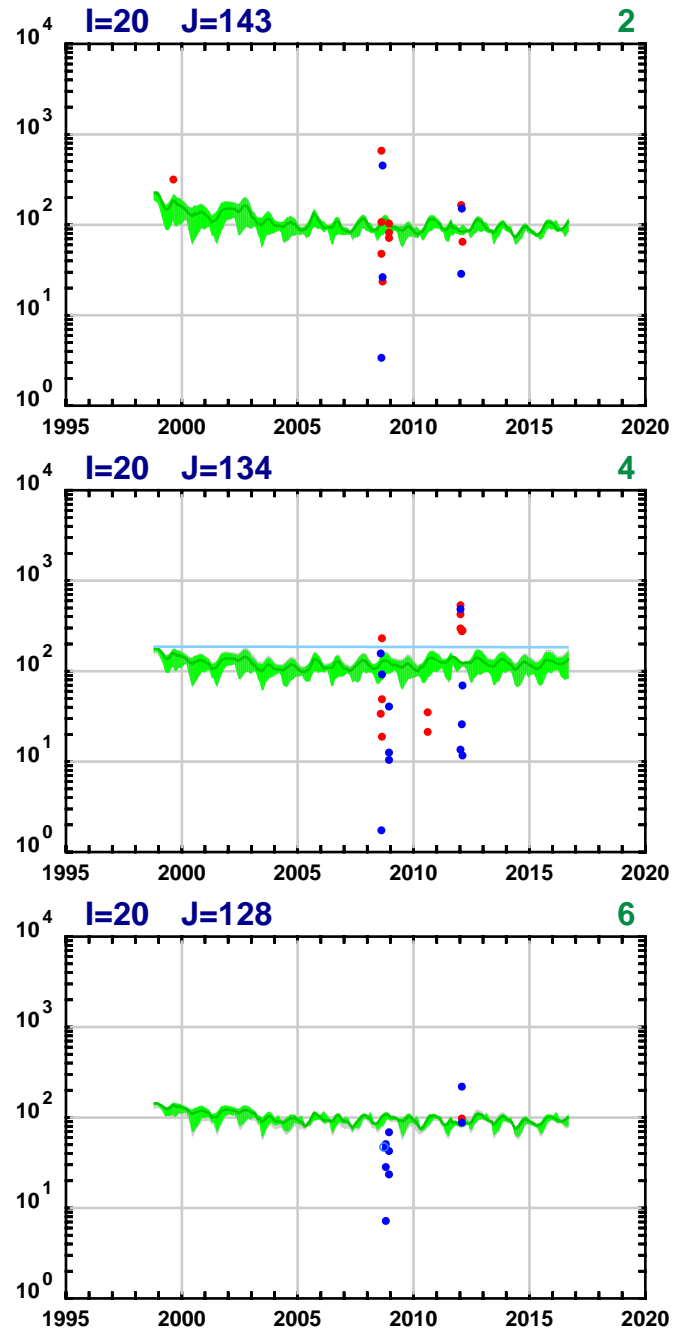
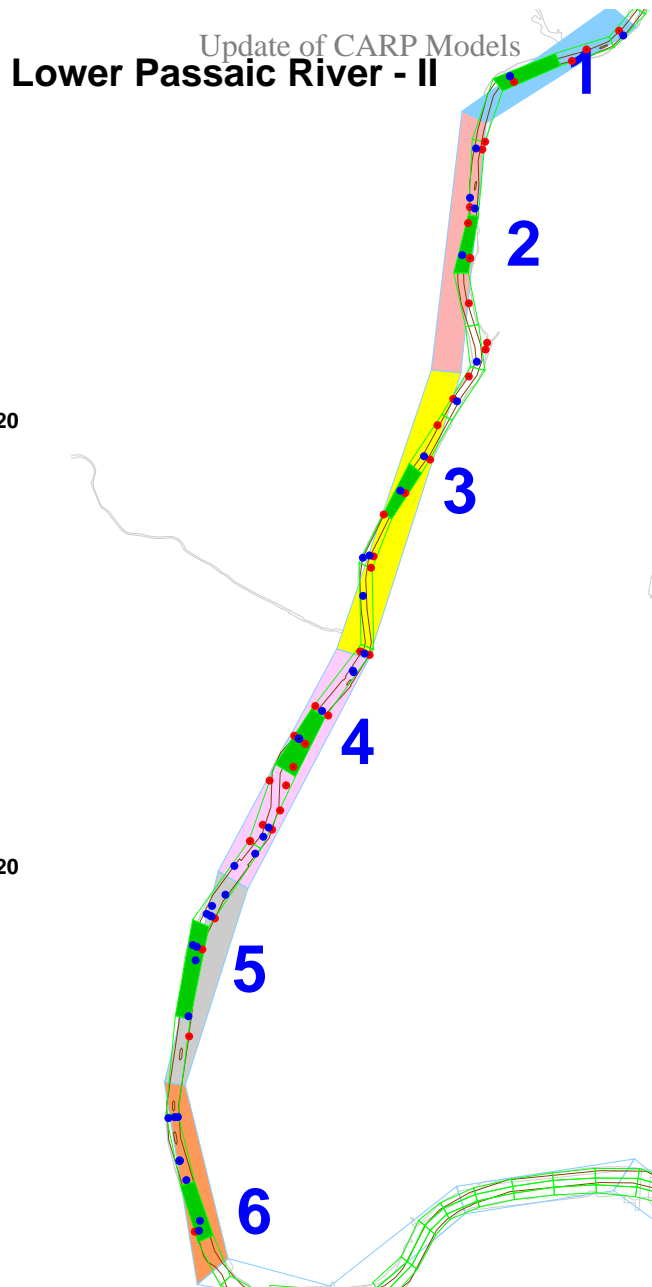
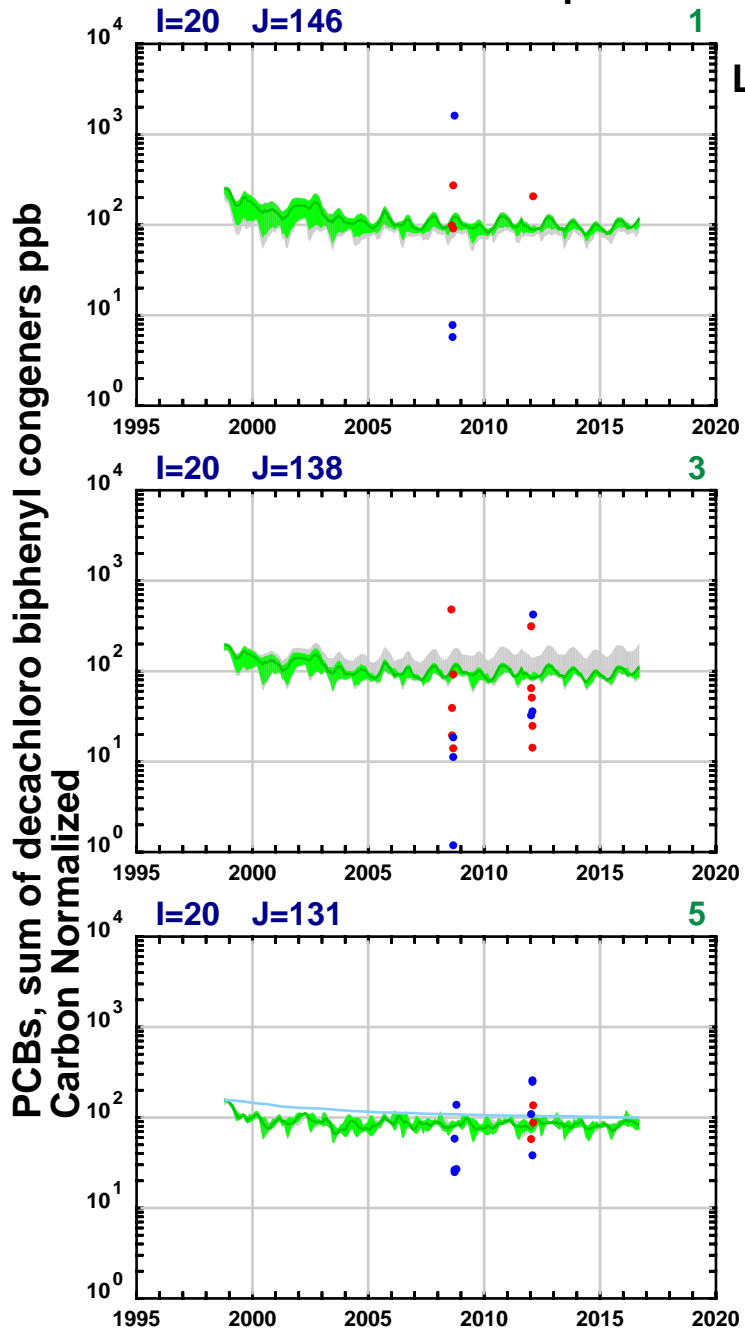


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

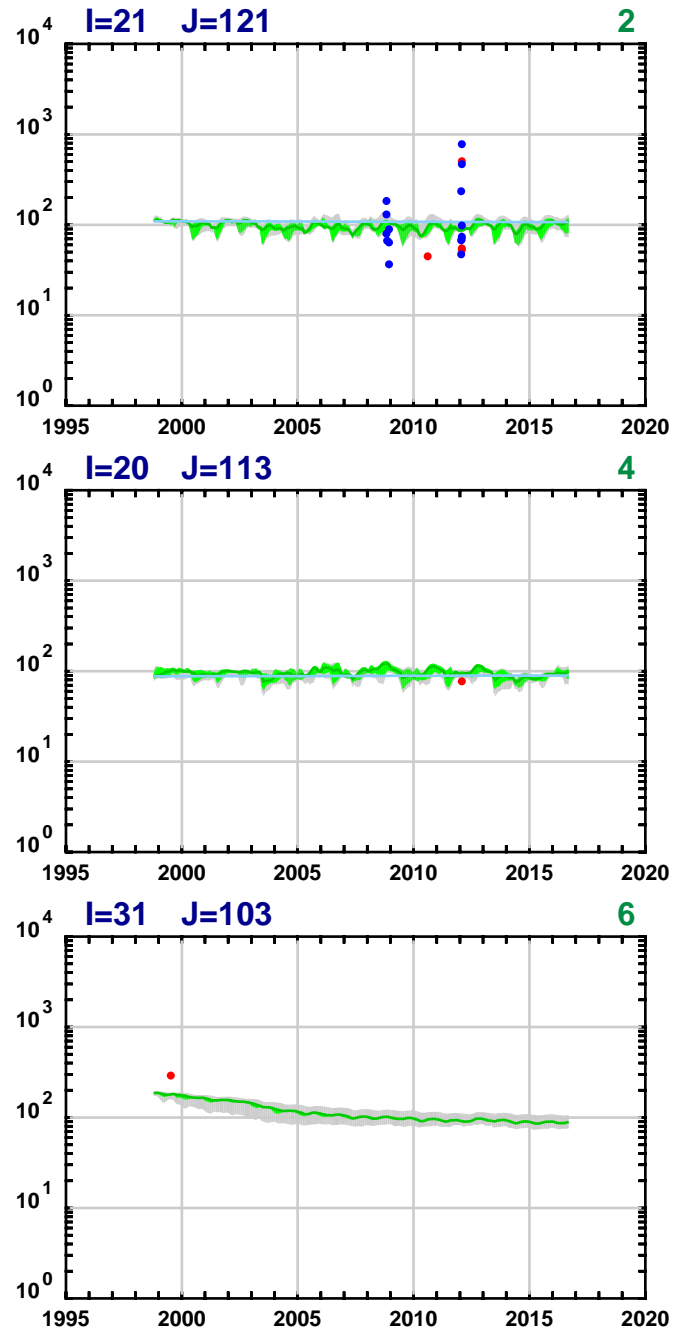
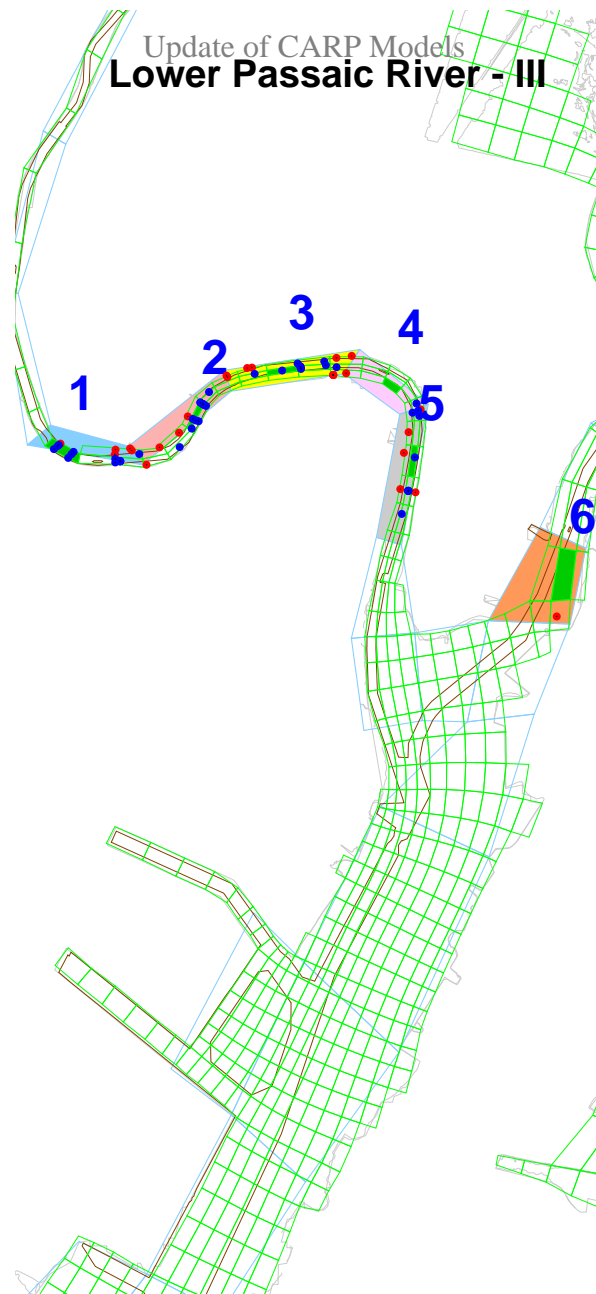
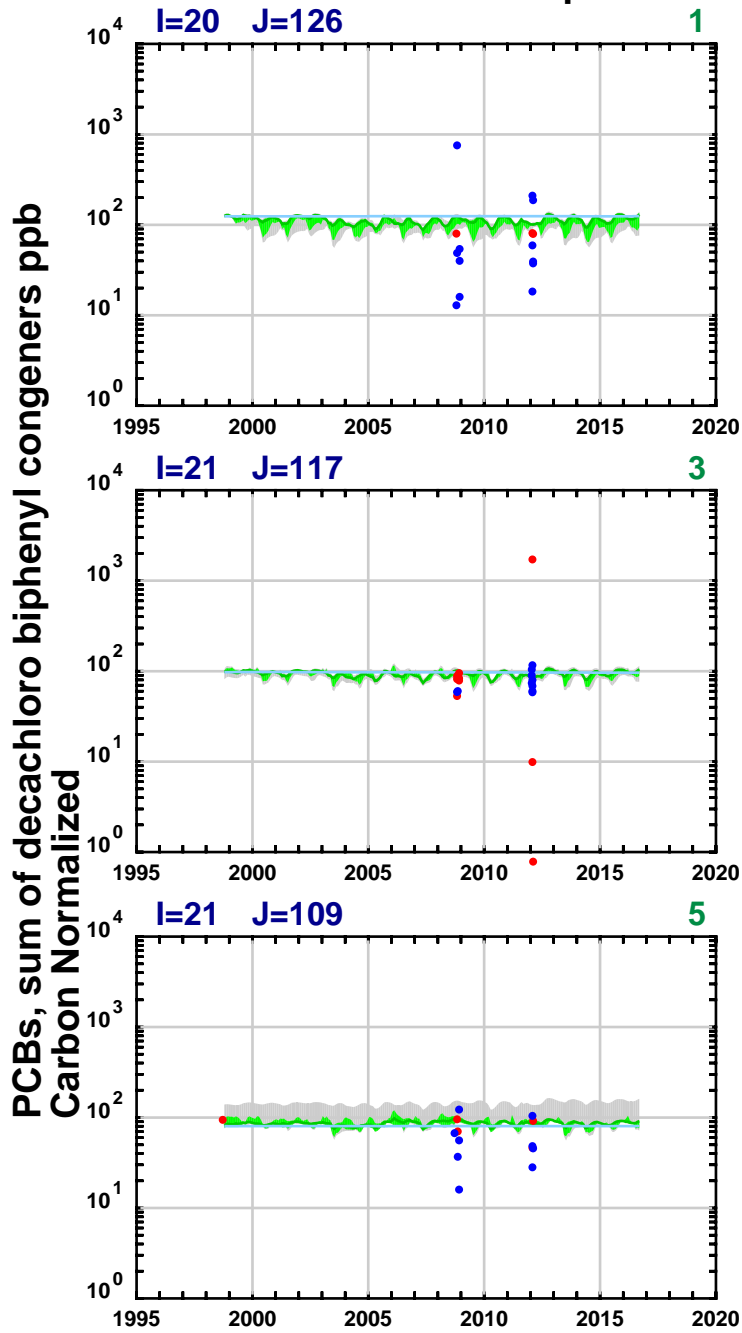


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

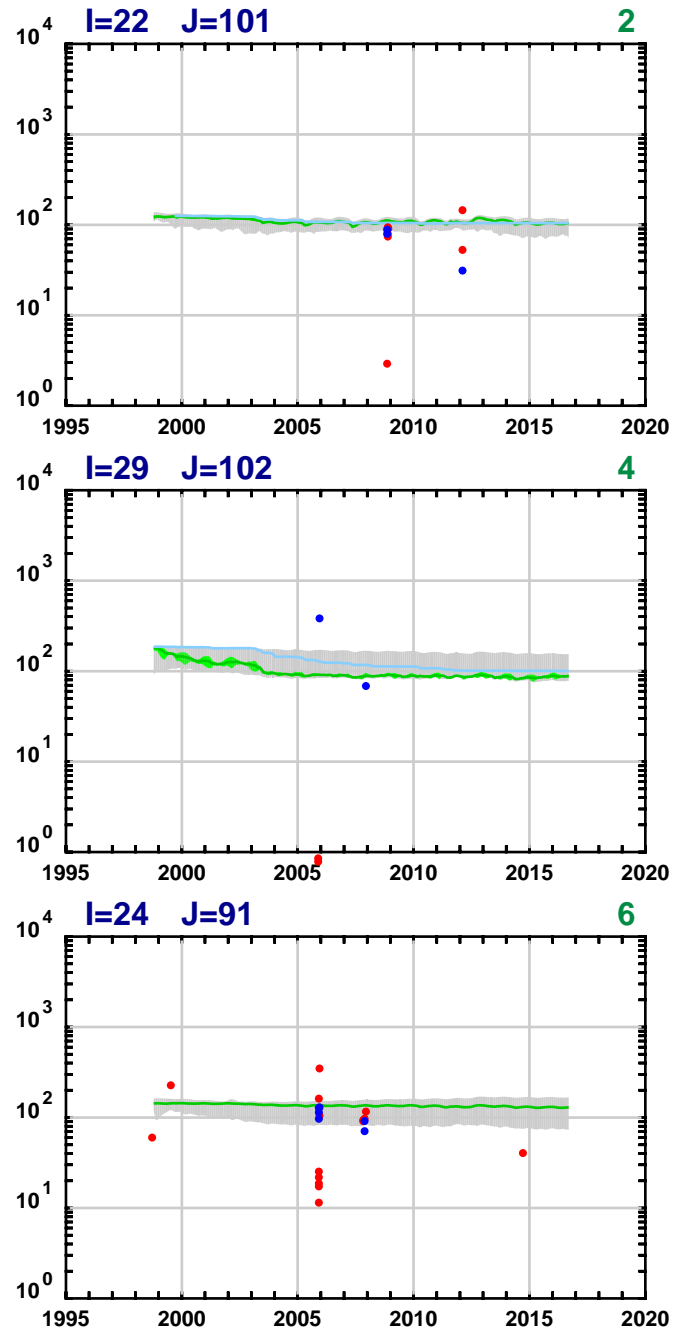
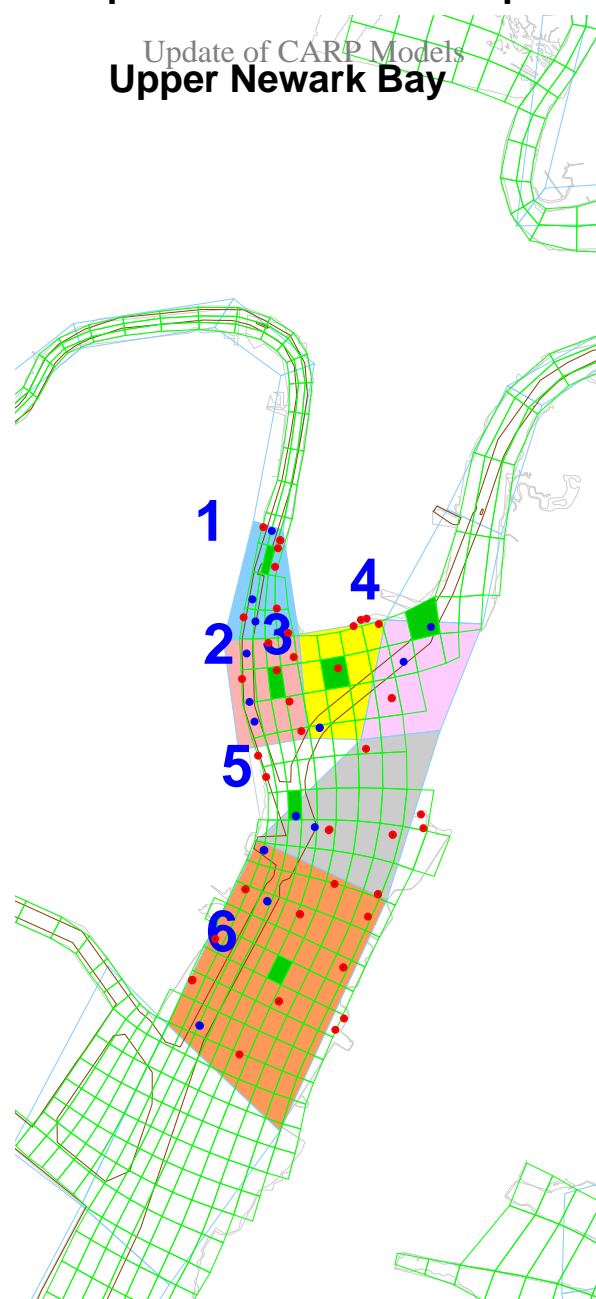
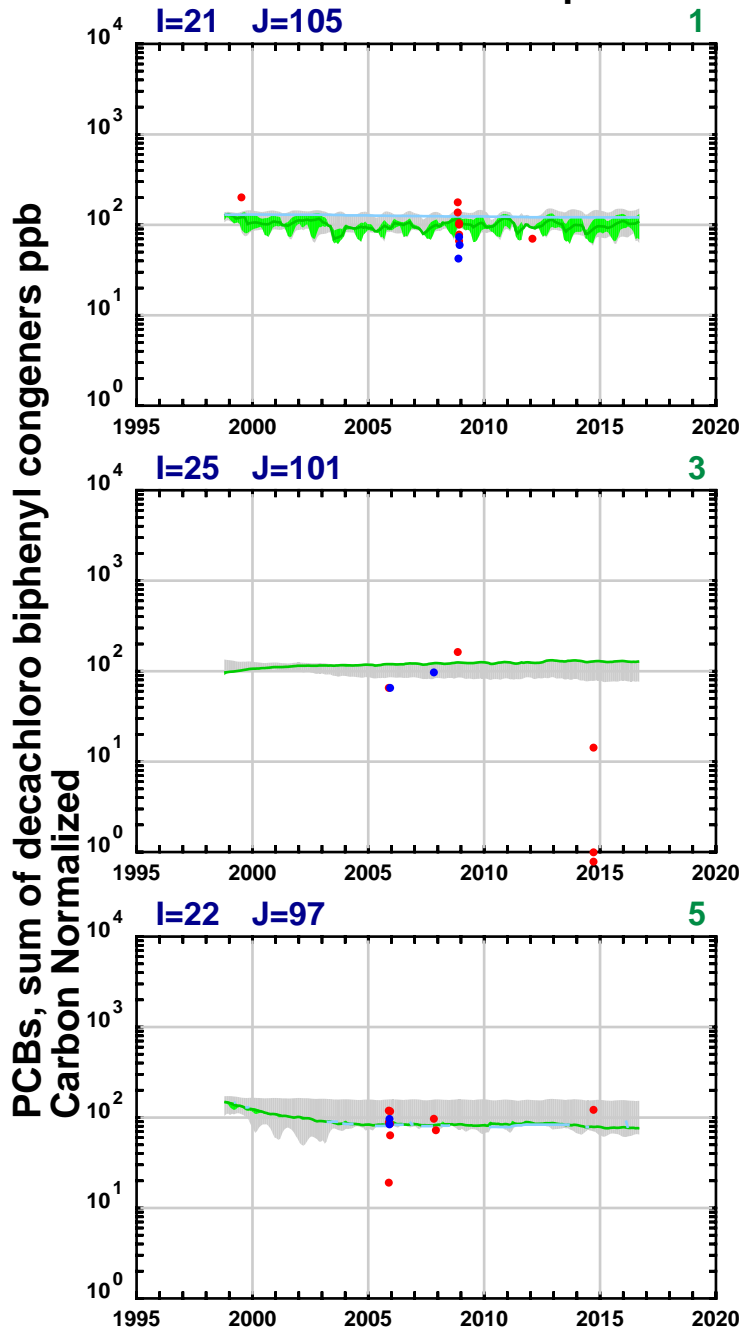


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



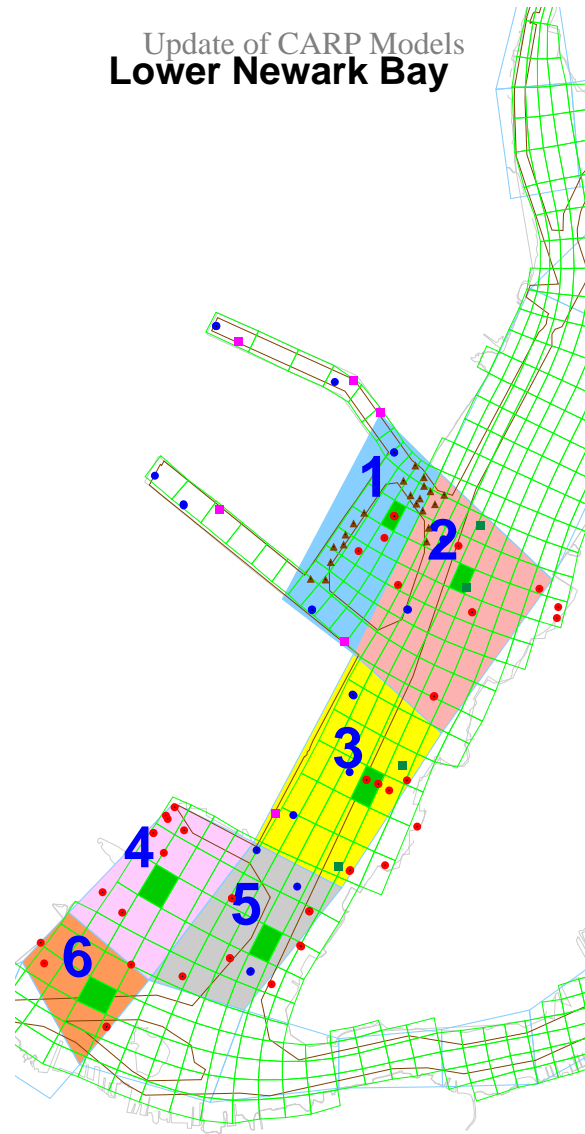
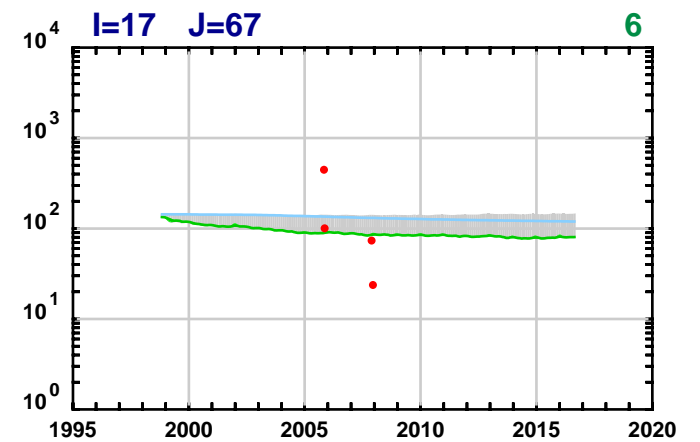
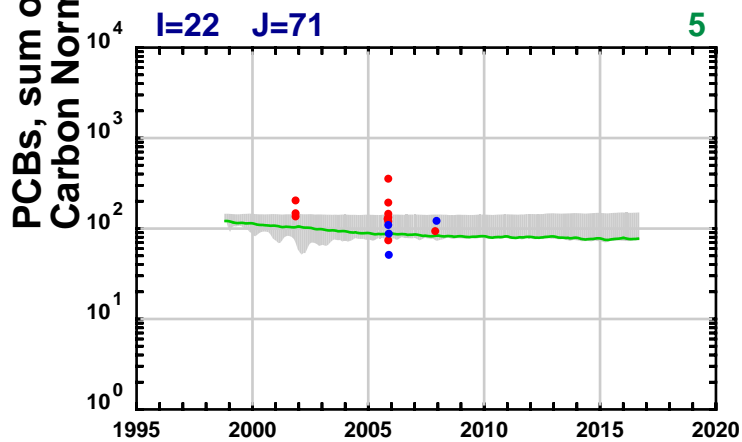
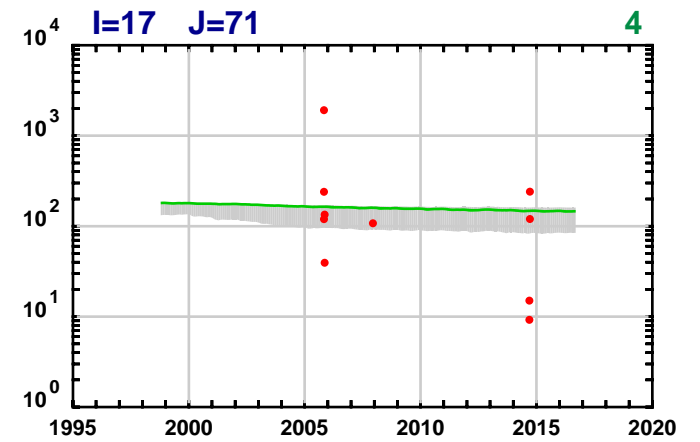
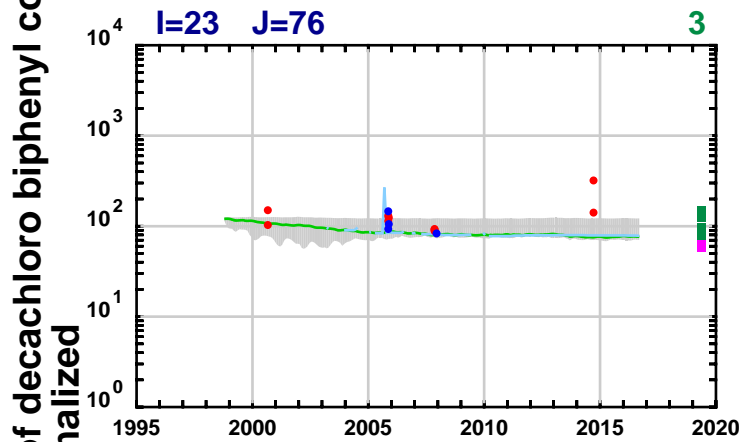
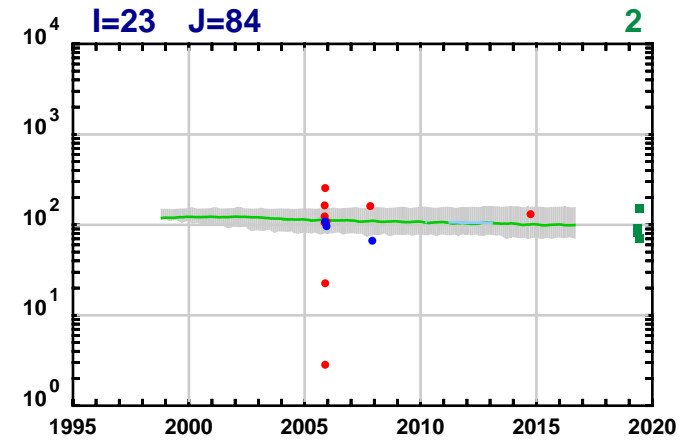
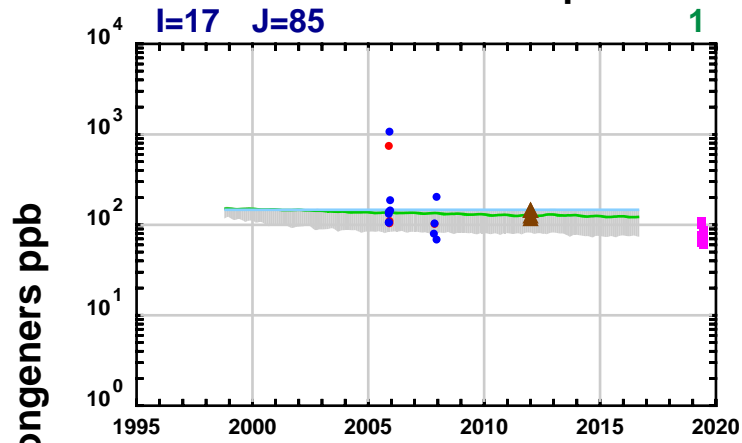
RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Lower Newark Bay



PCBs, sum of decachloro biphenyl congeners ppb  
Carbon Normalized

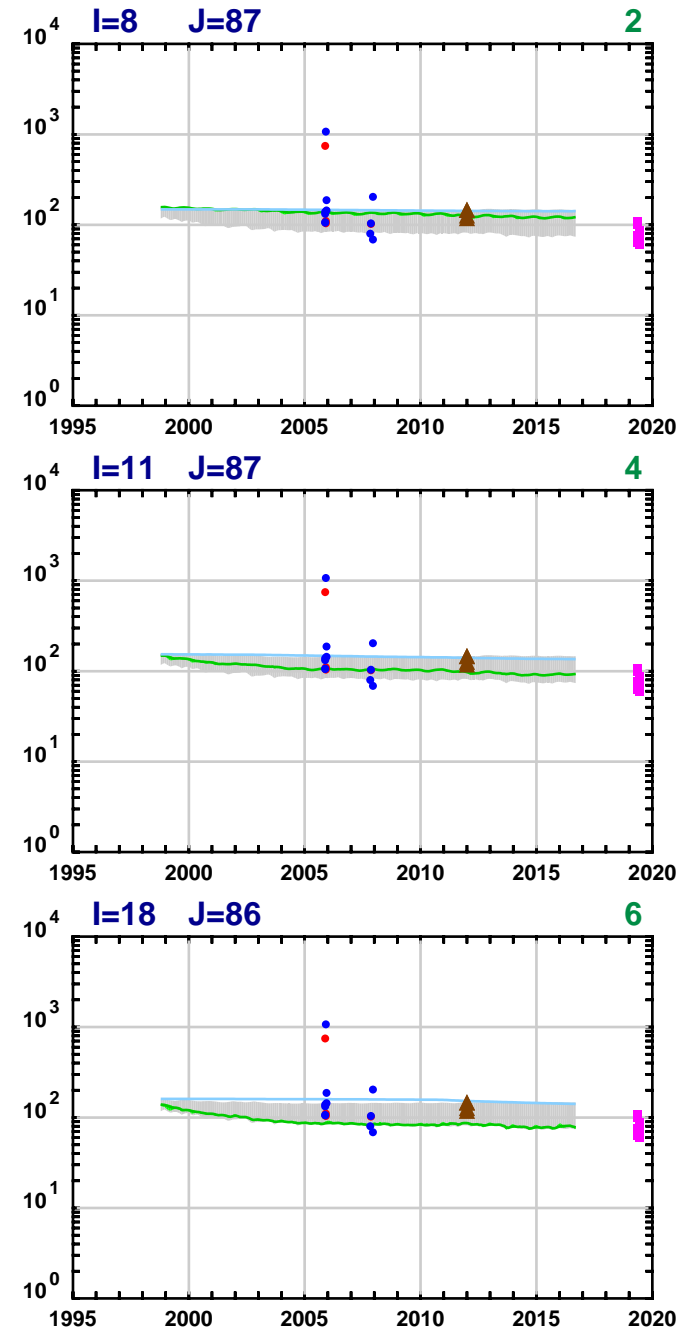
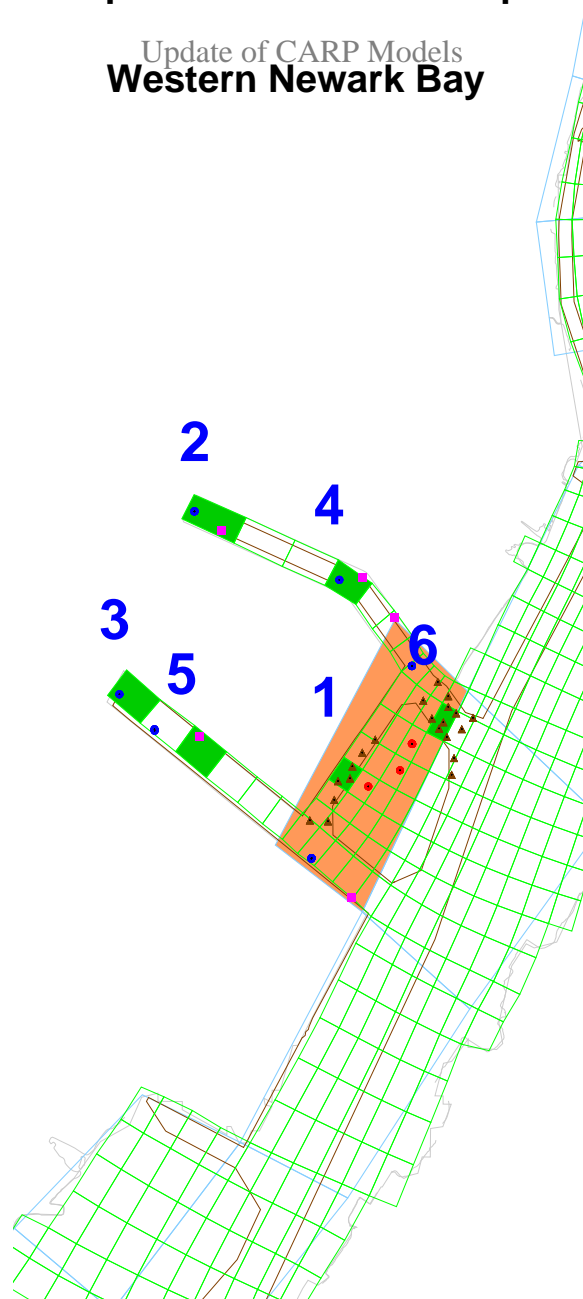
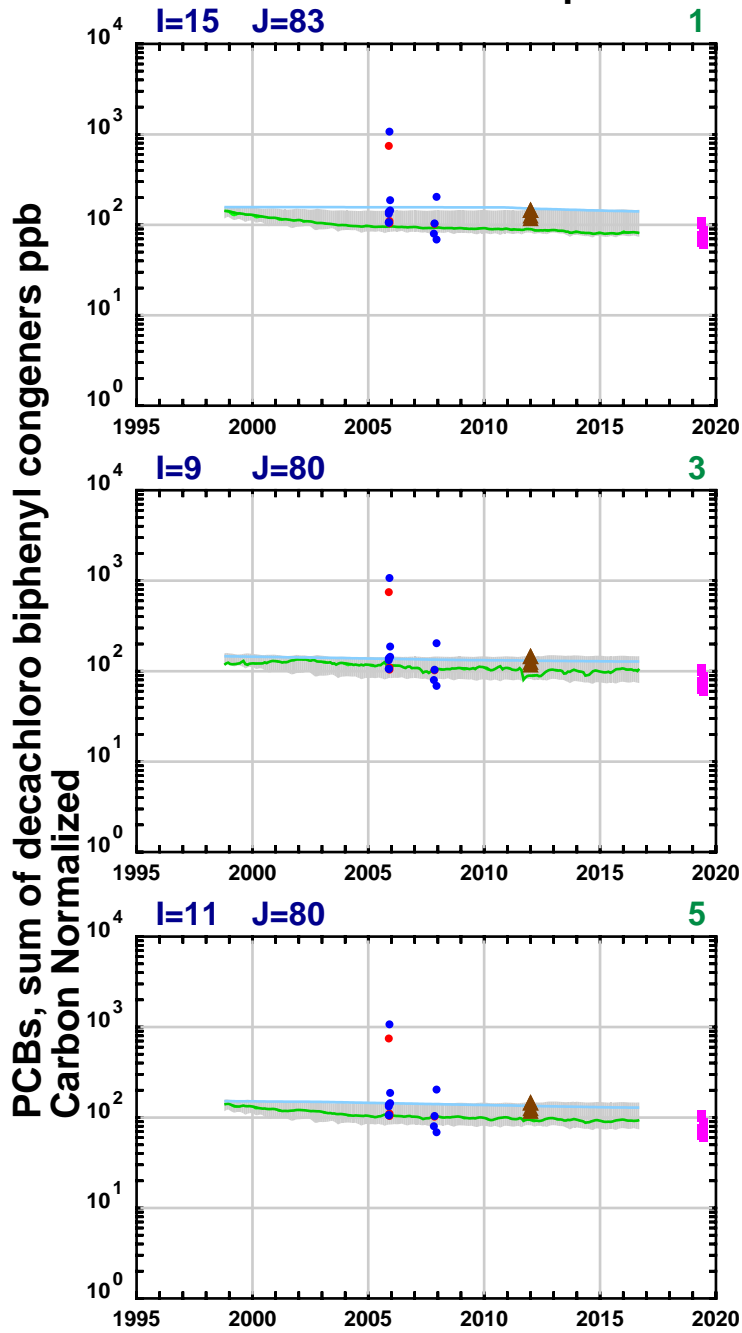
RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay



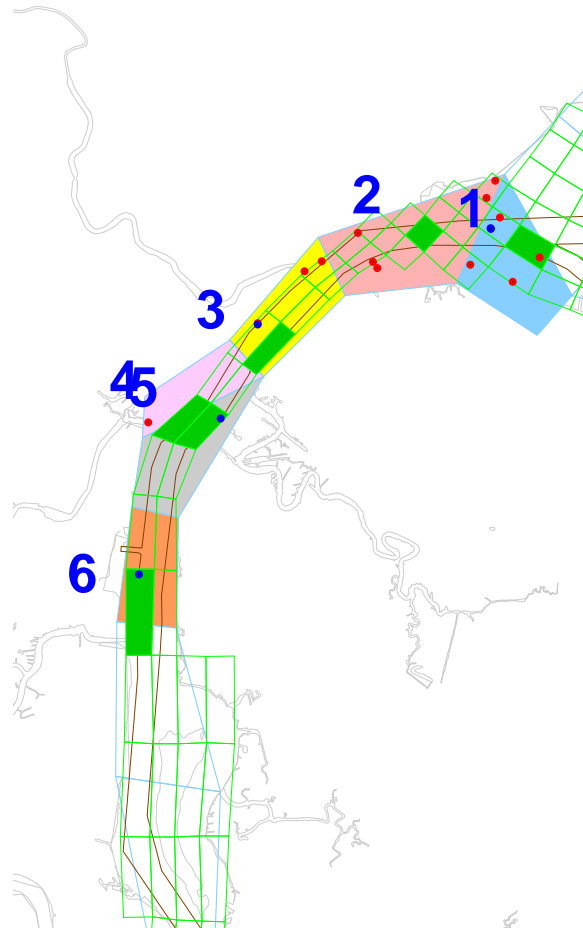
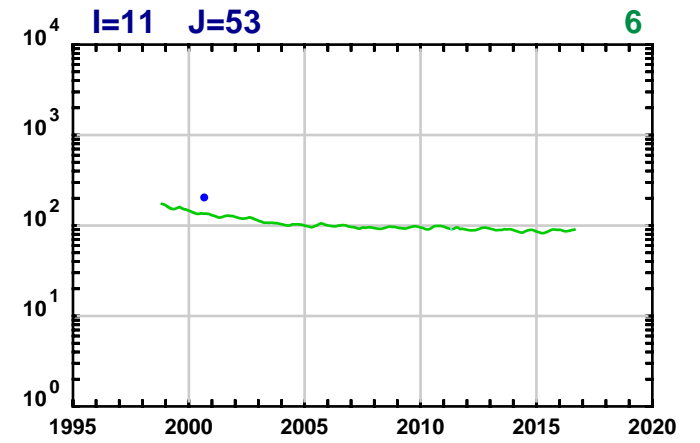
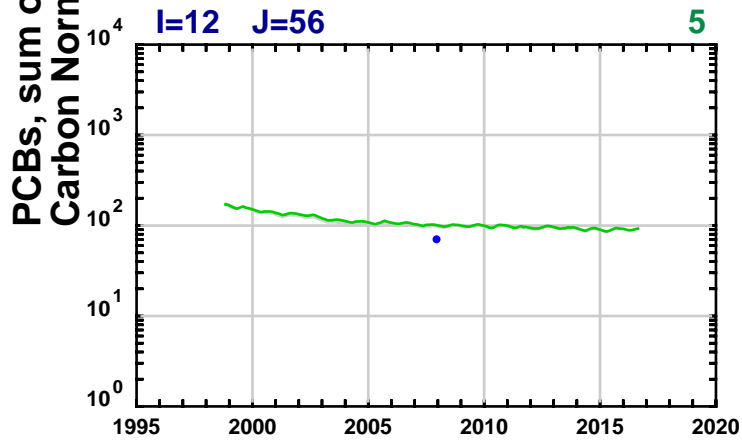
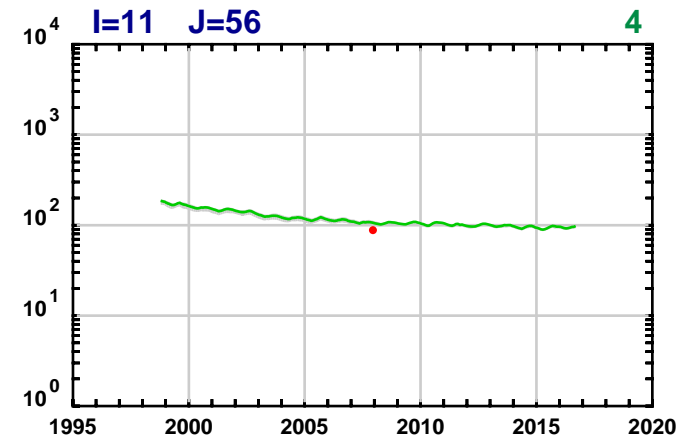
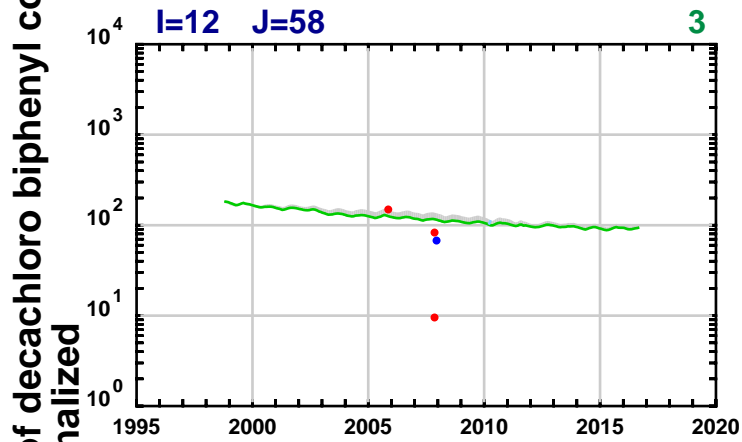
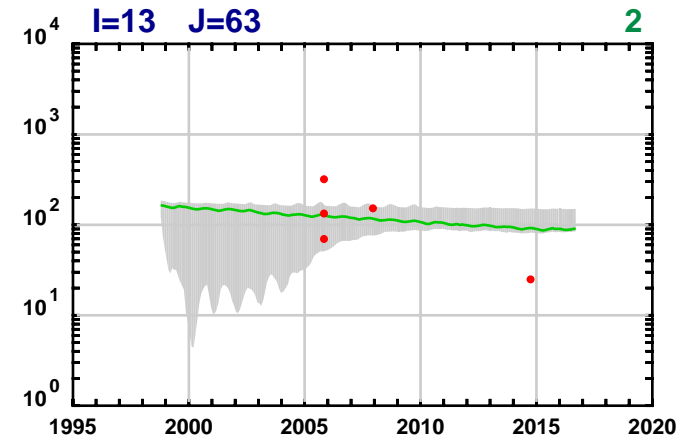
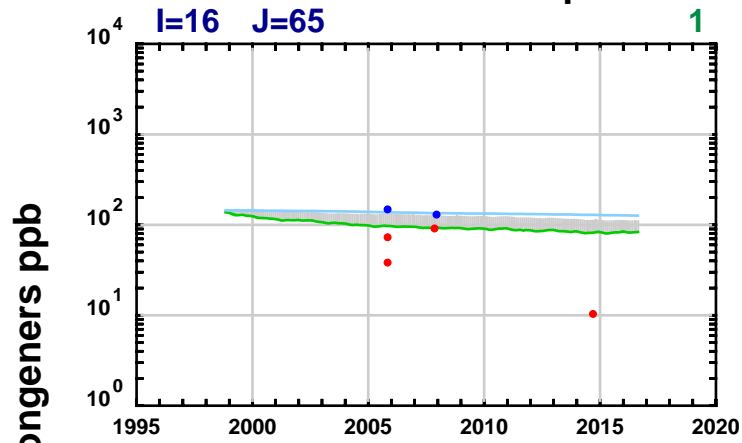
RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1



PCBs, sum of decachloro biphenyl congeners ppb  
Carbon Normalized

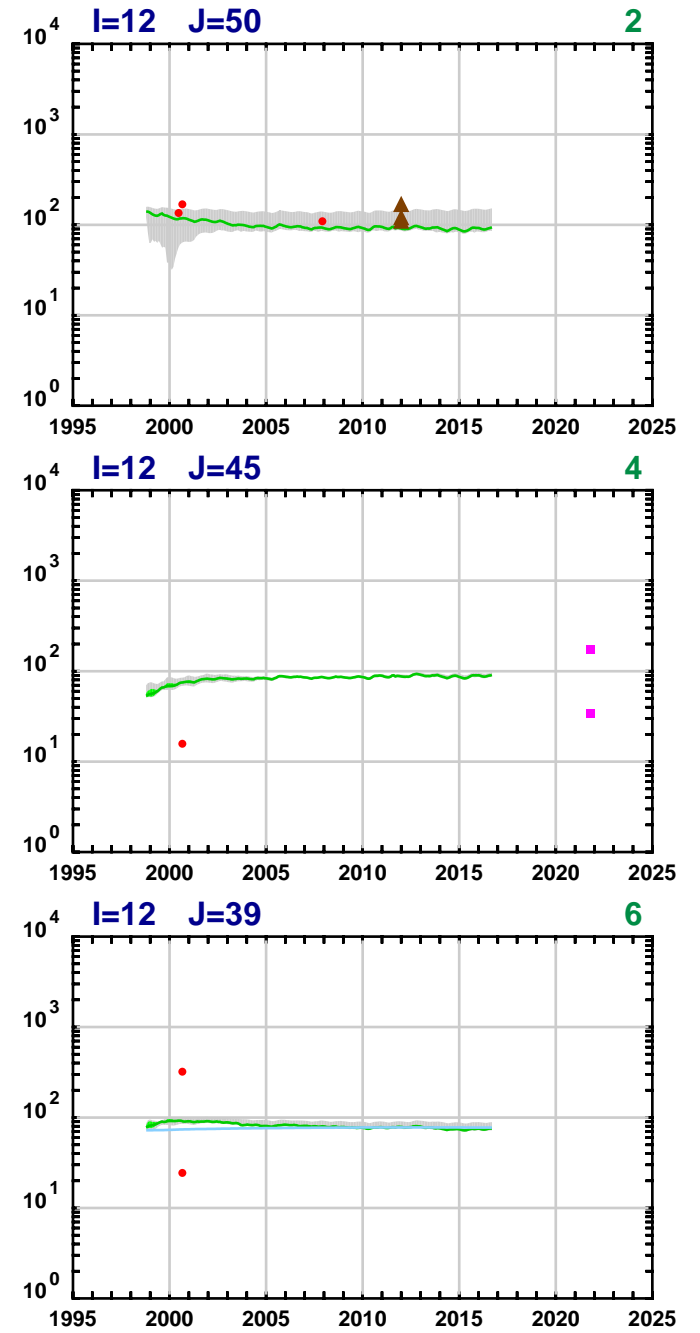
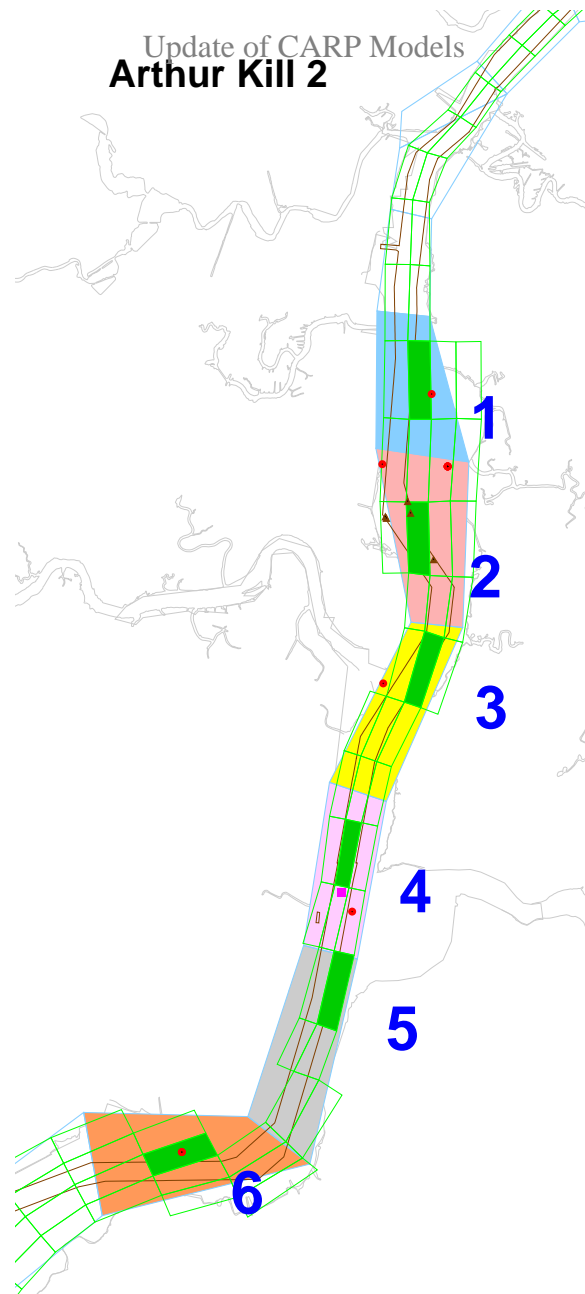
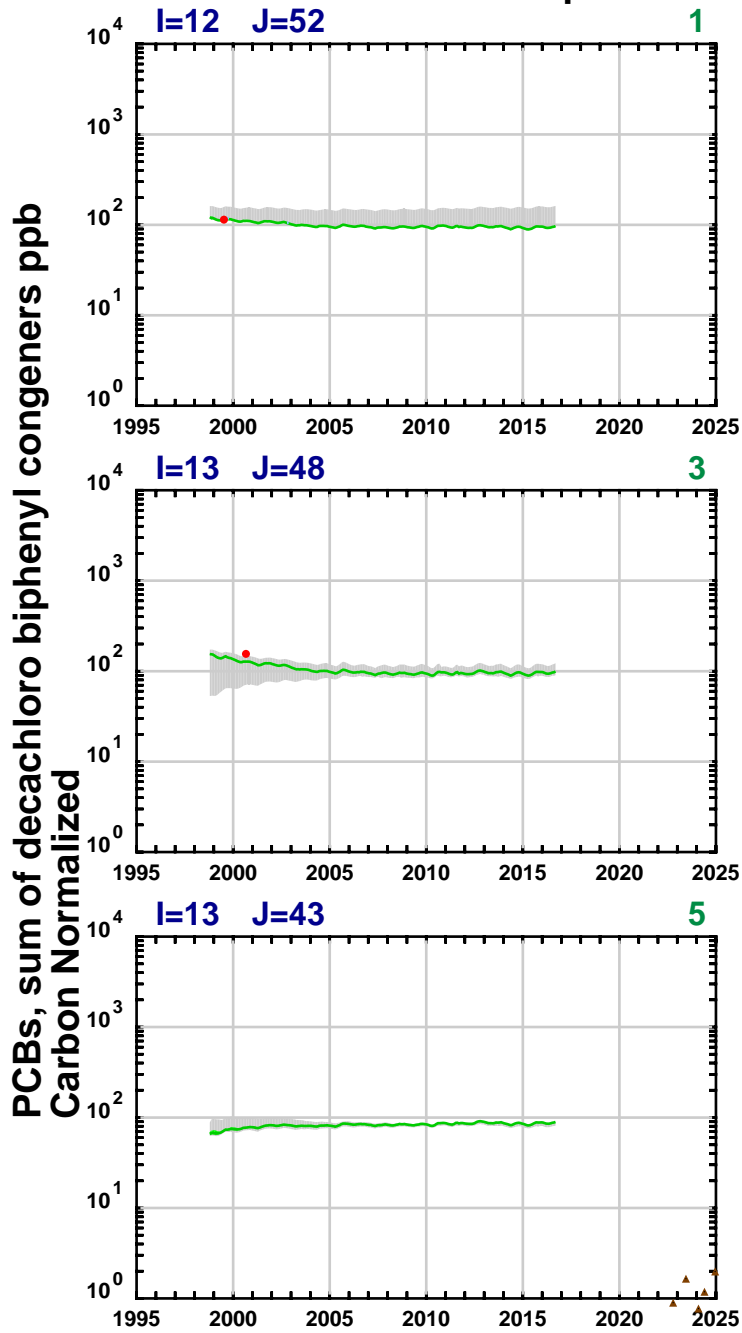
RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

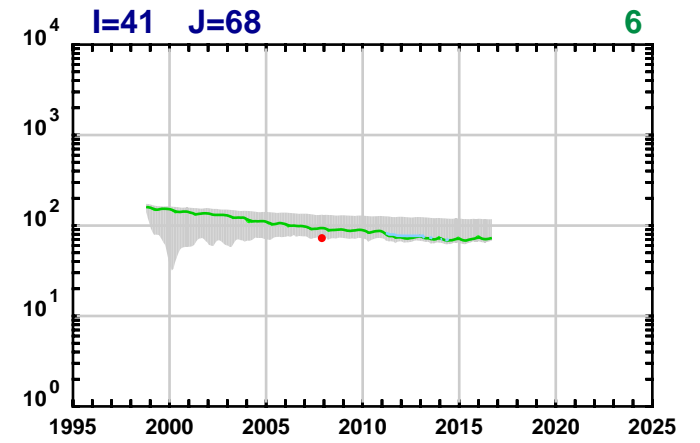
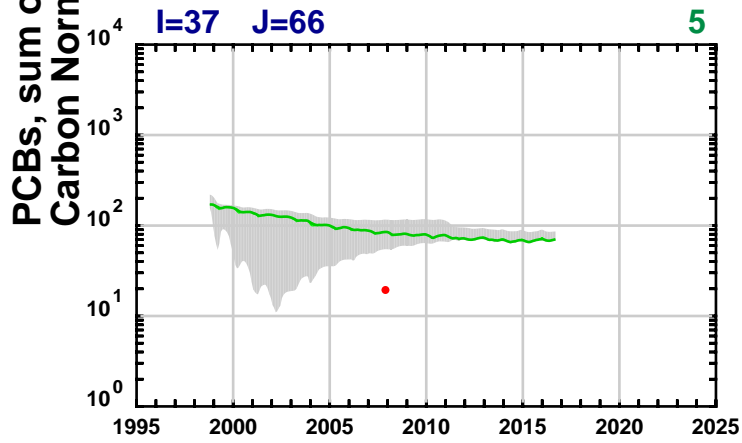
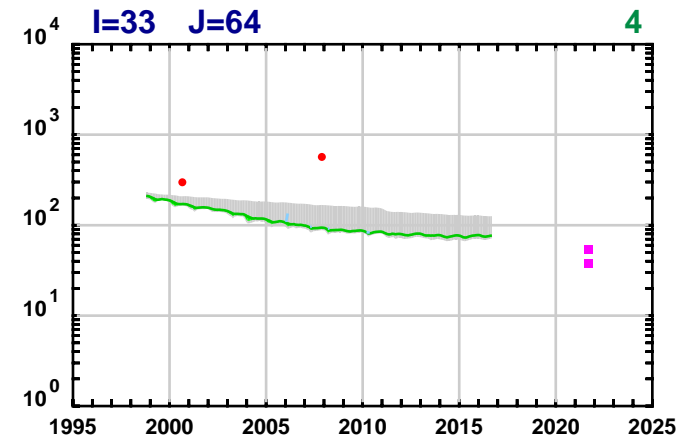
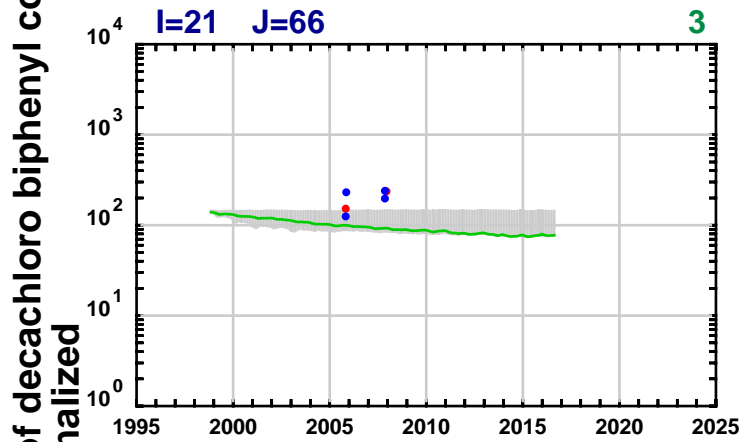
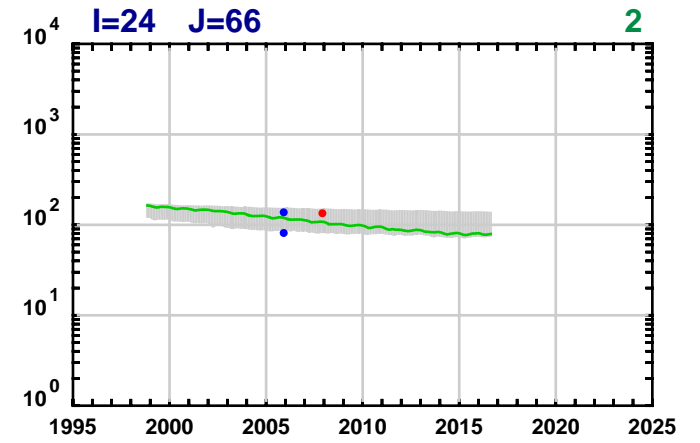
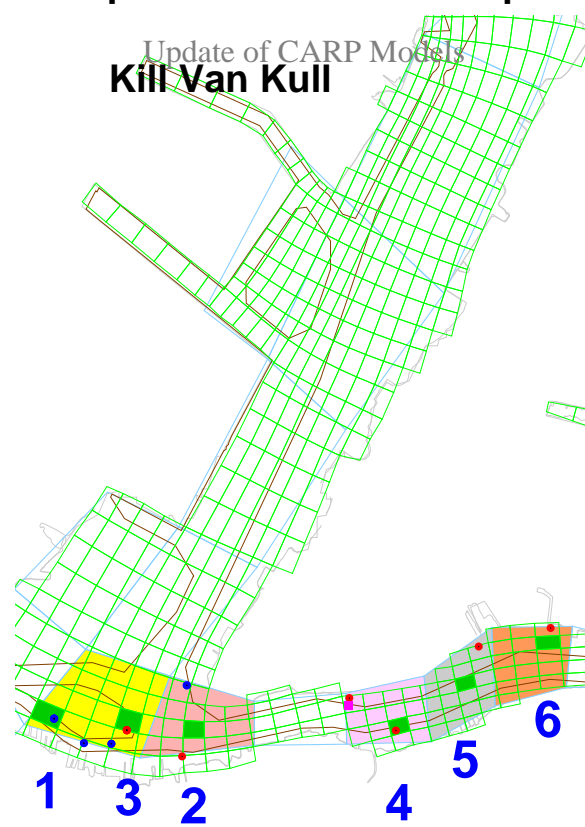
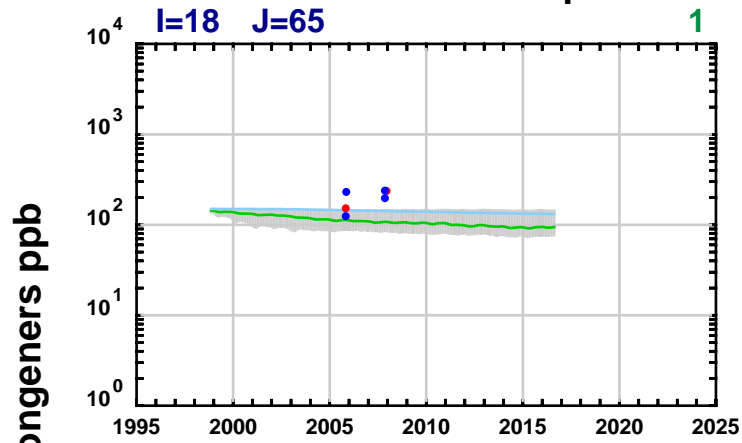


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

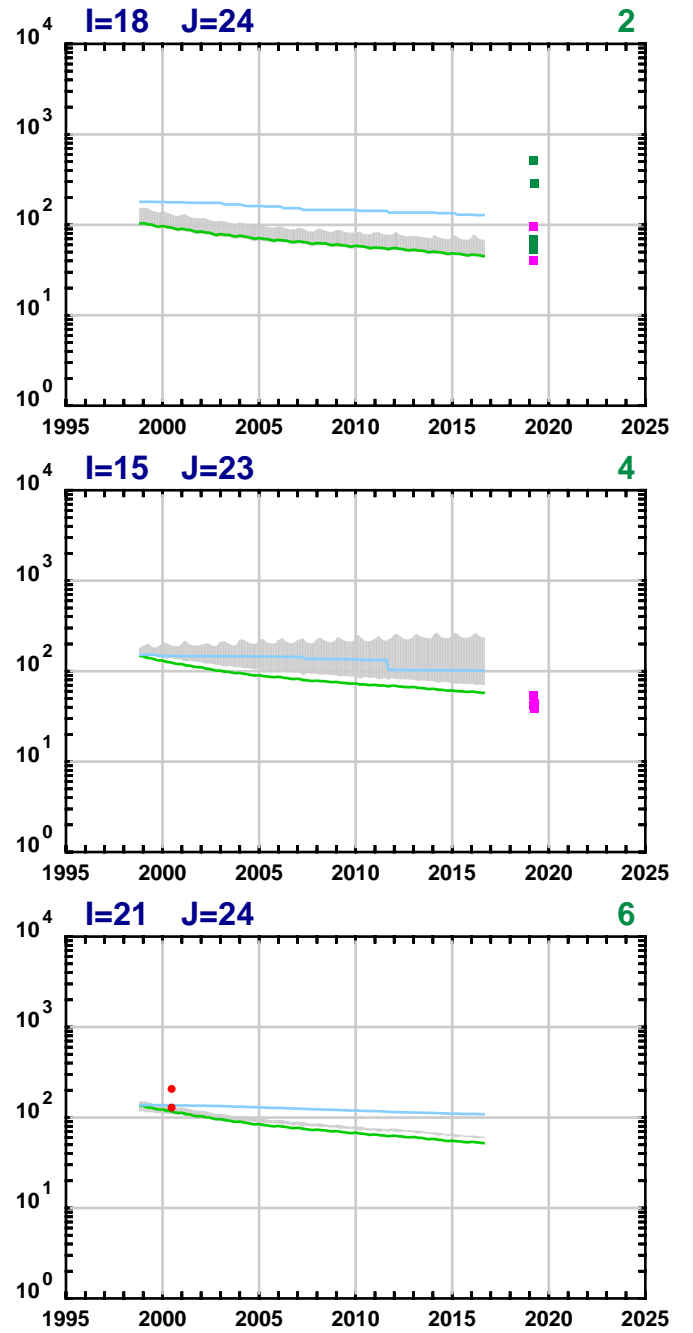
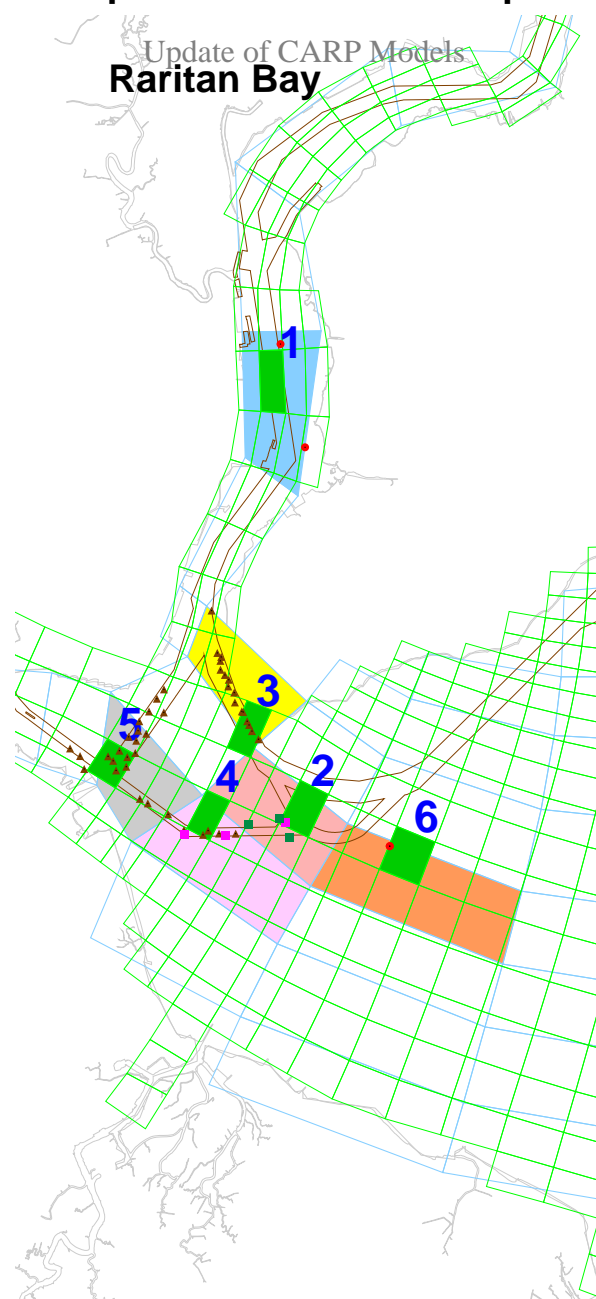
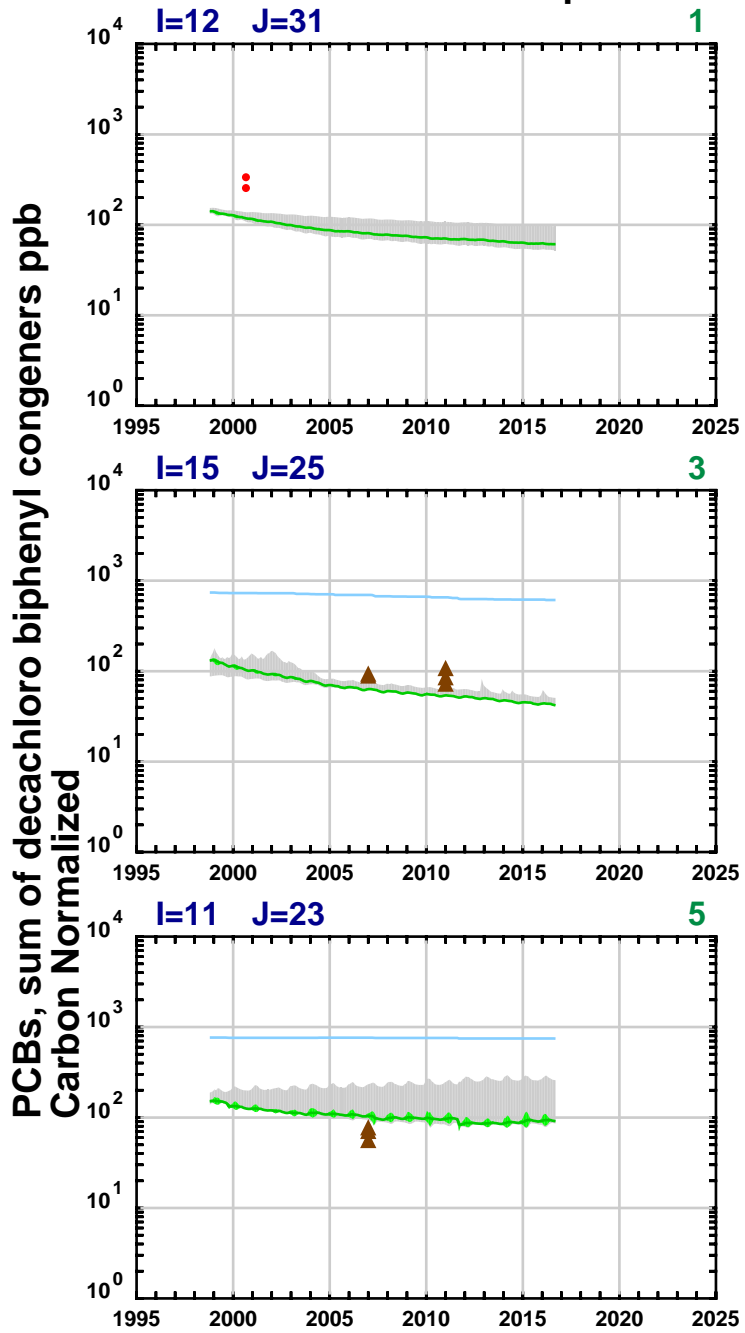


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

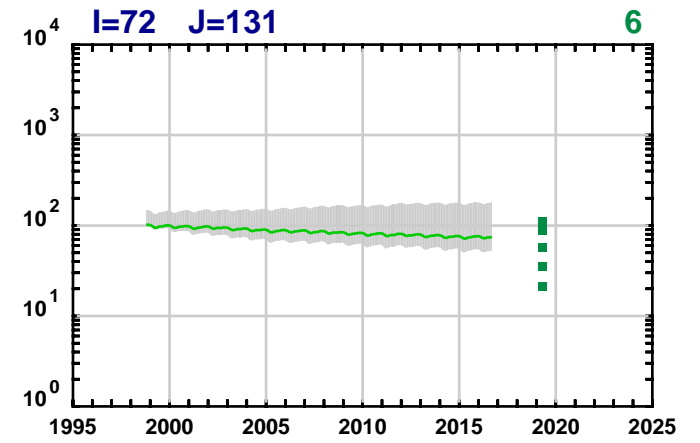
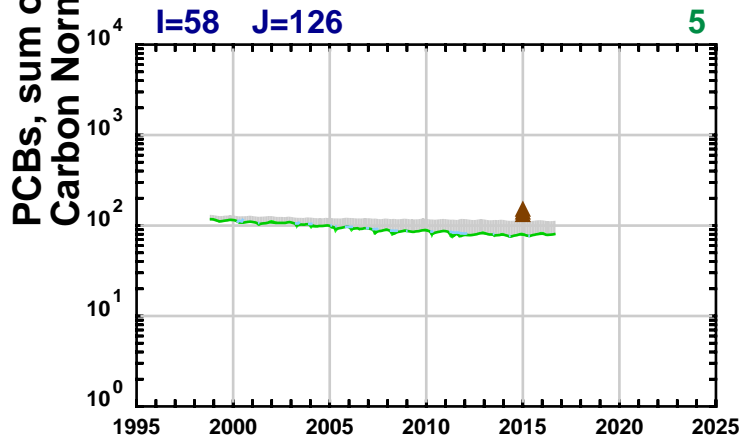
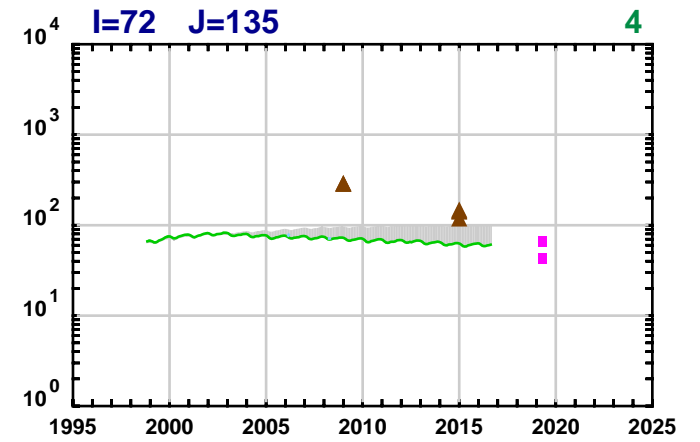
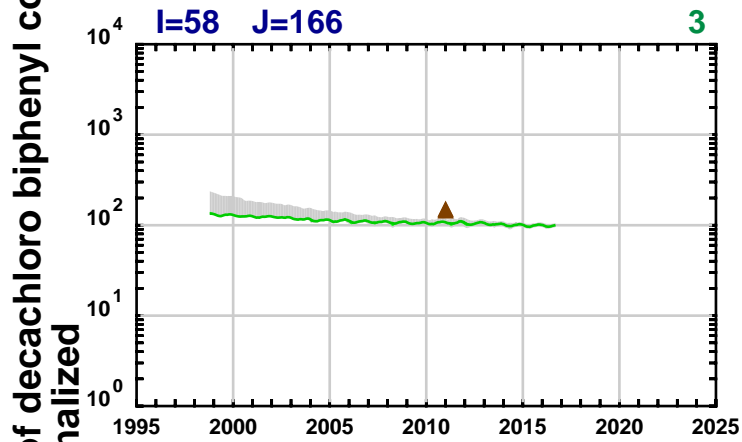
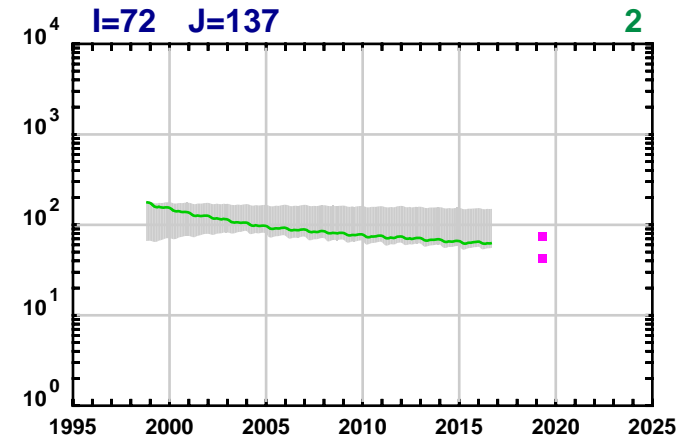
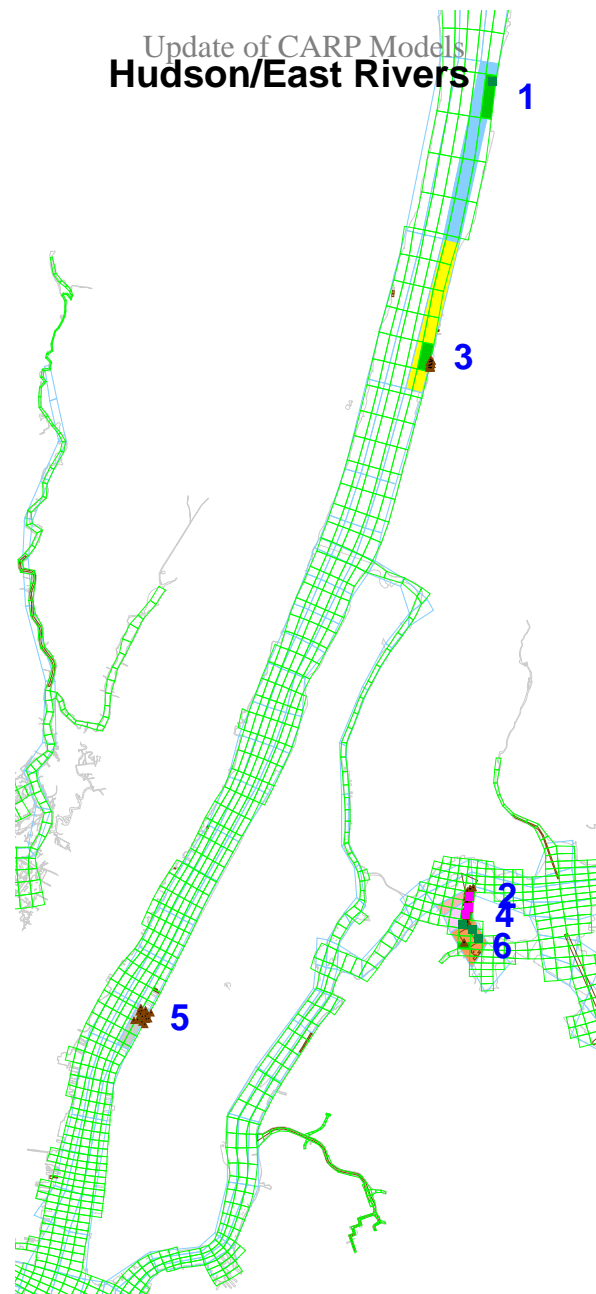
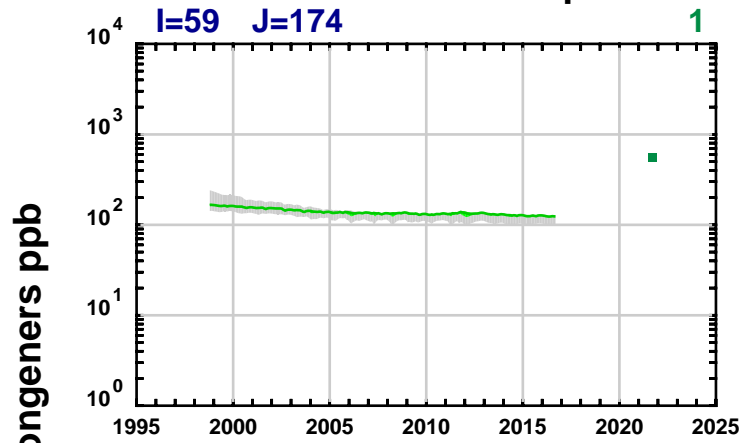


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

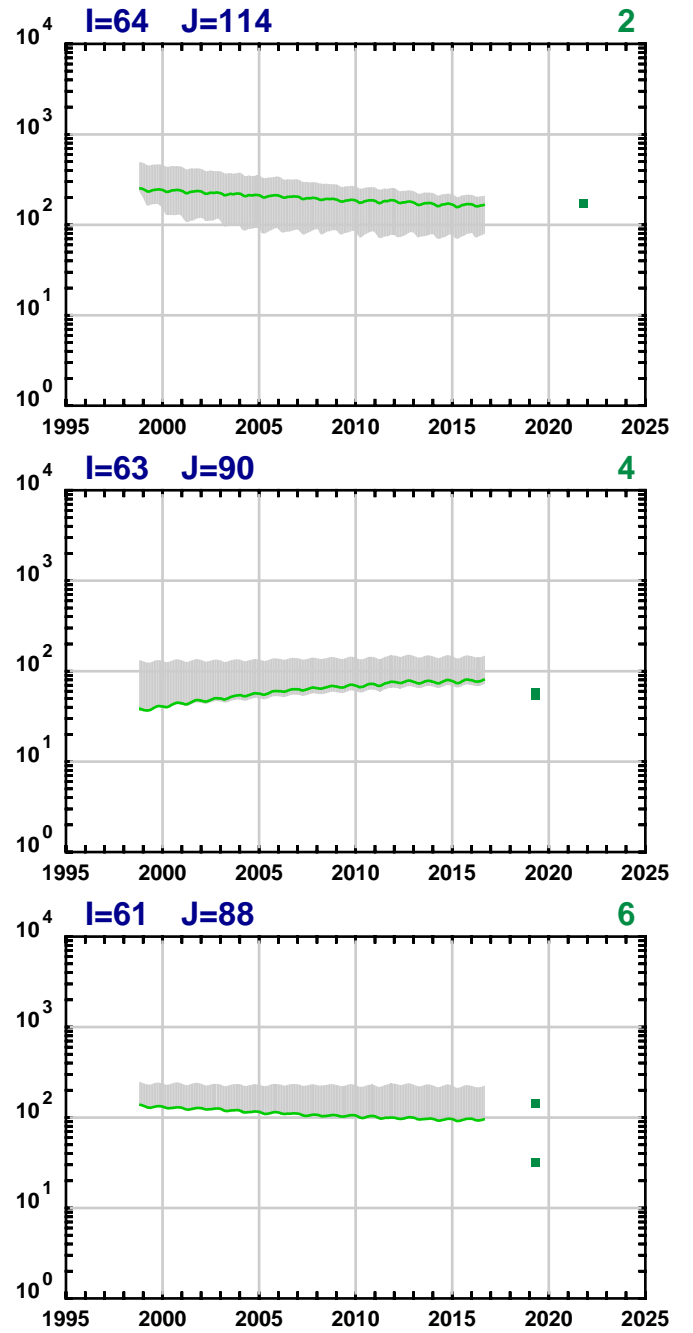
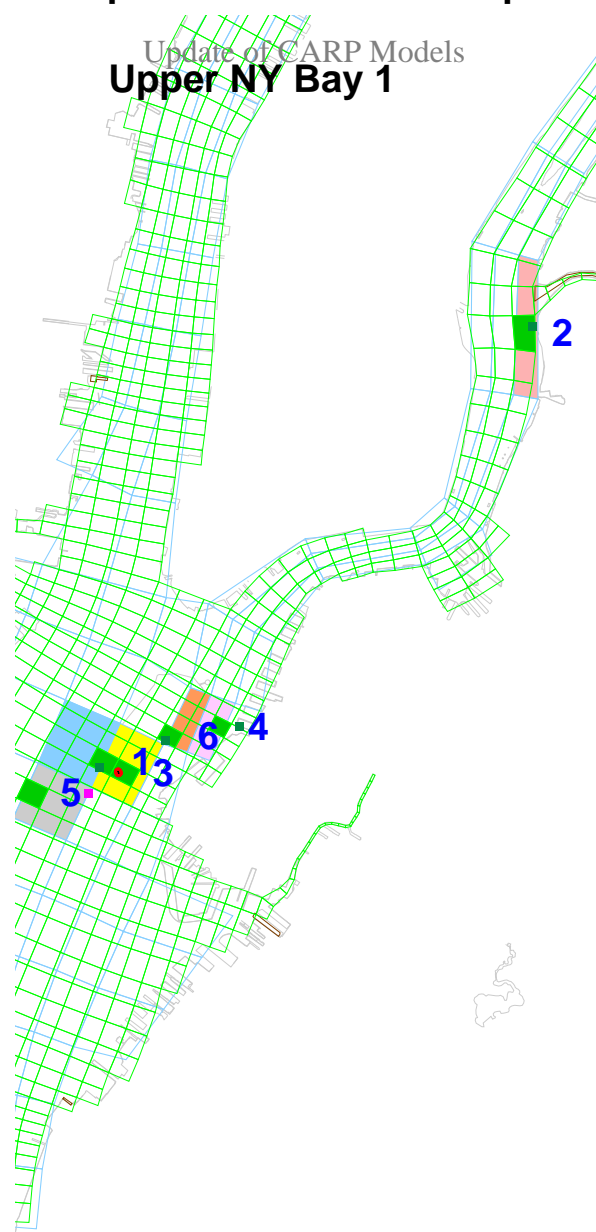
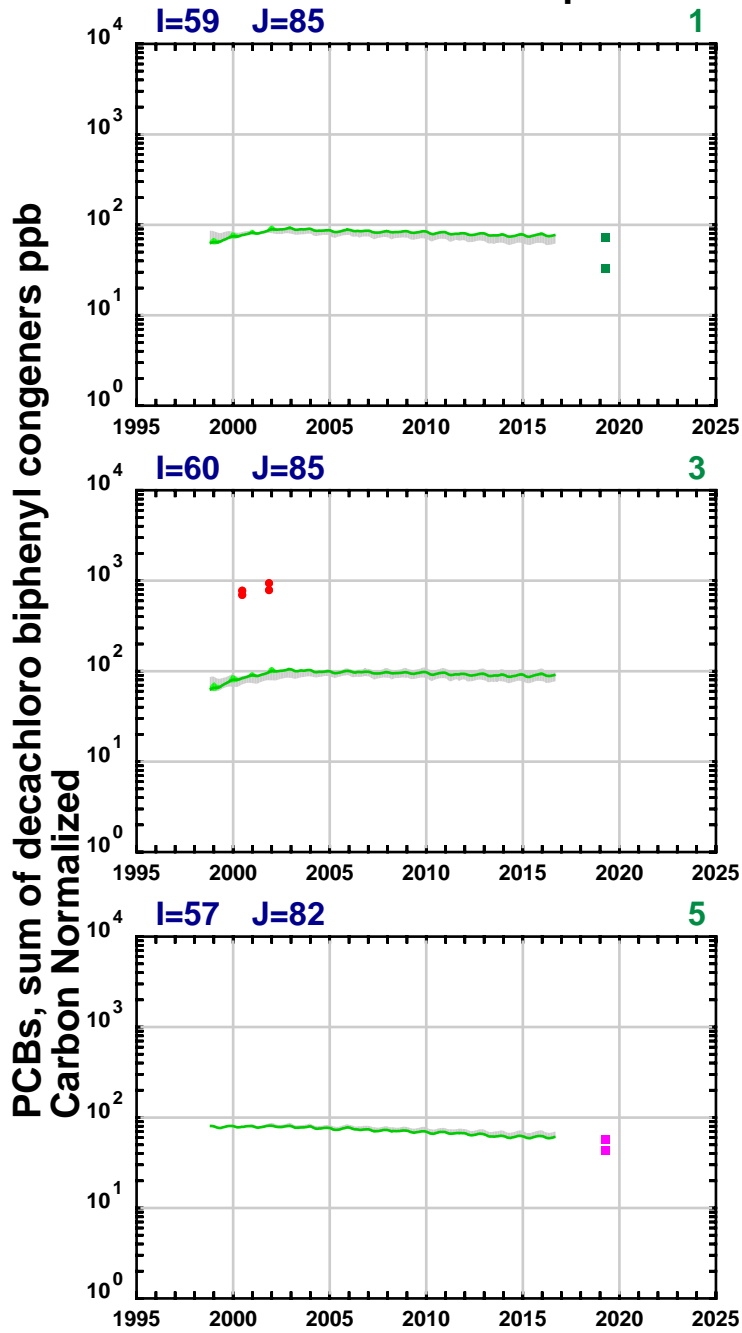


RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

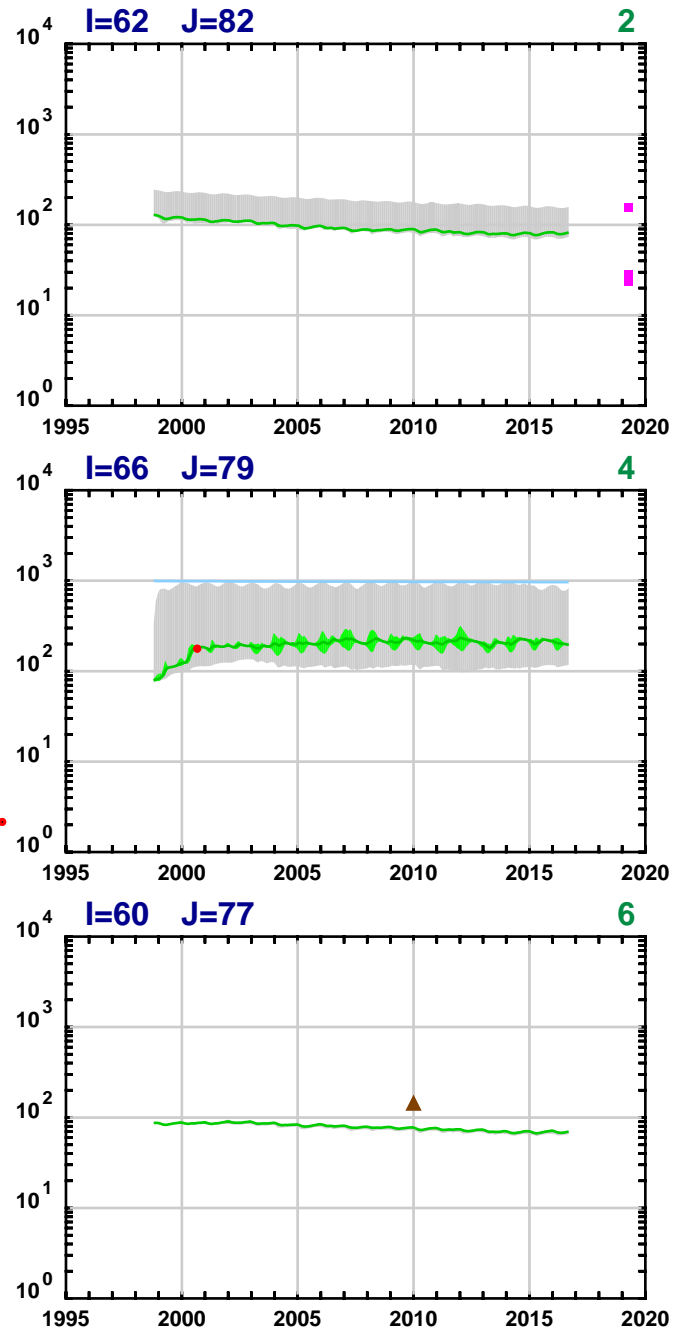
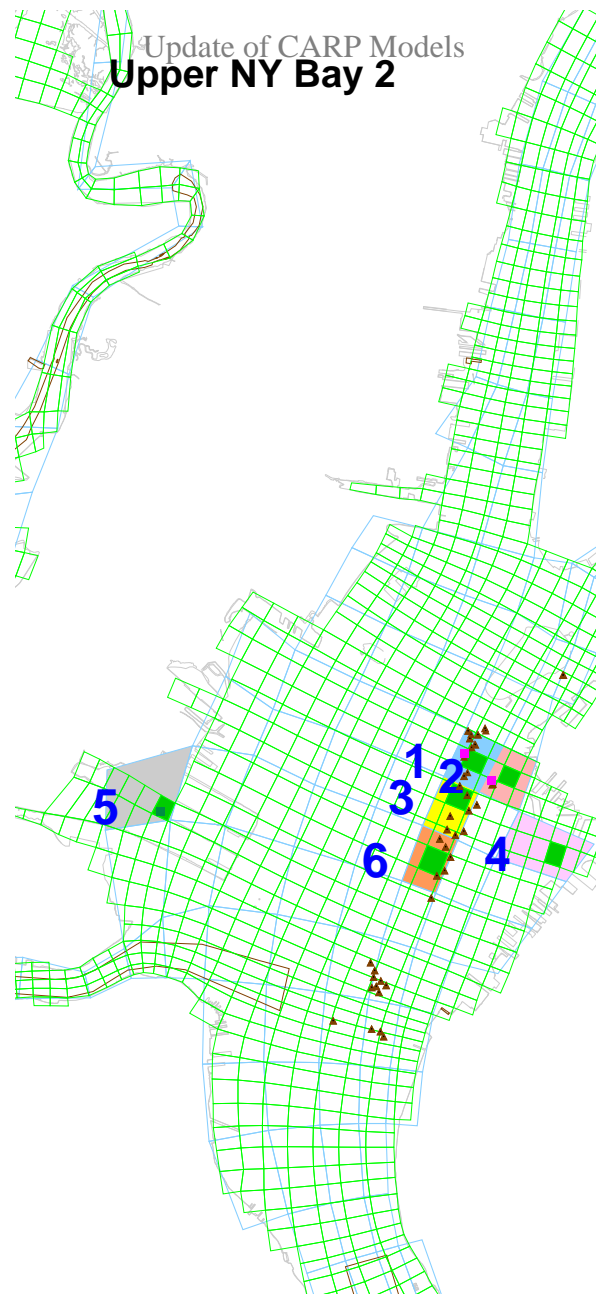
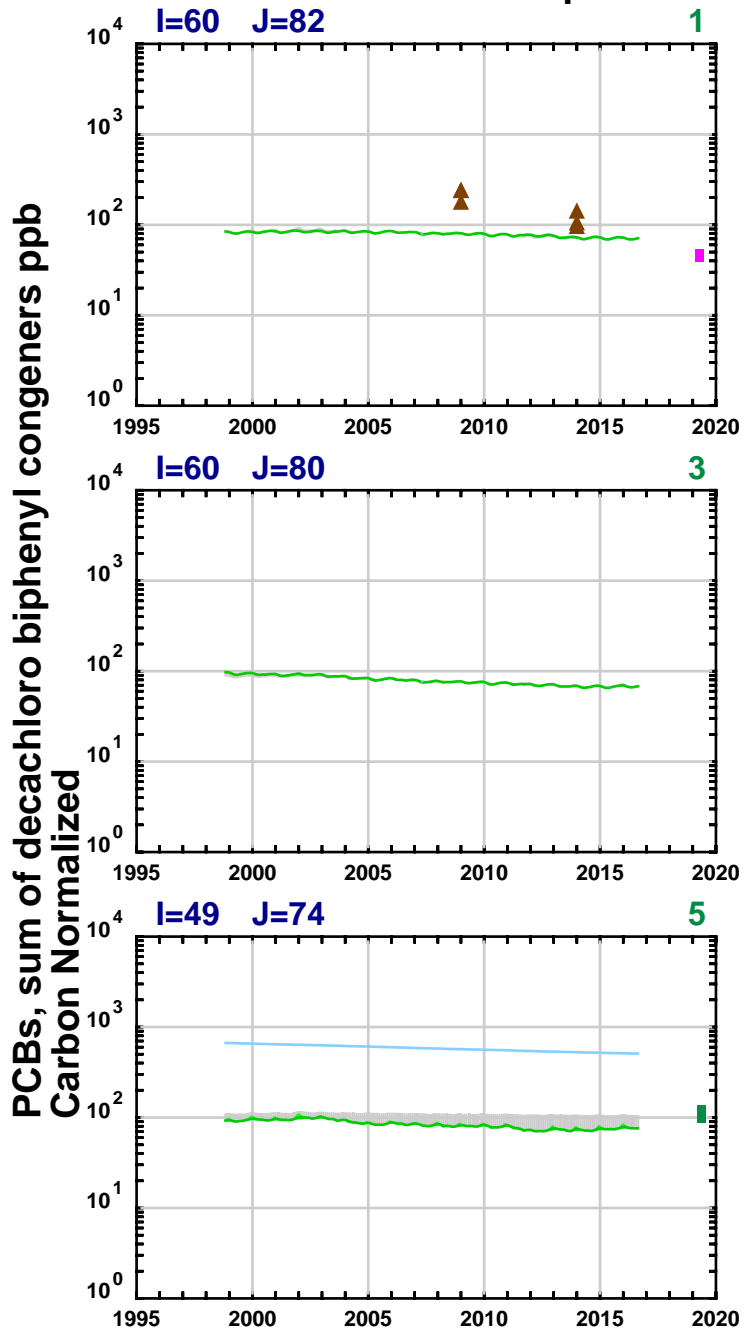


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



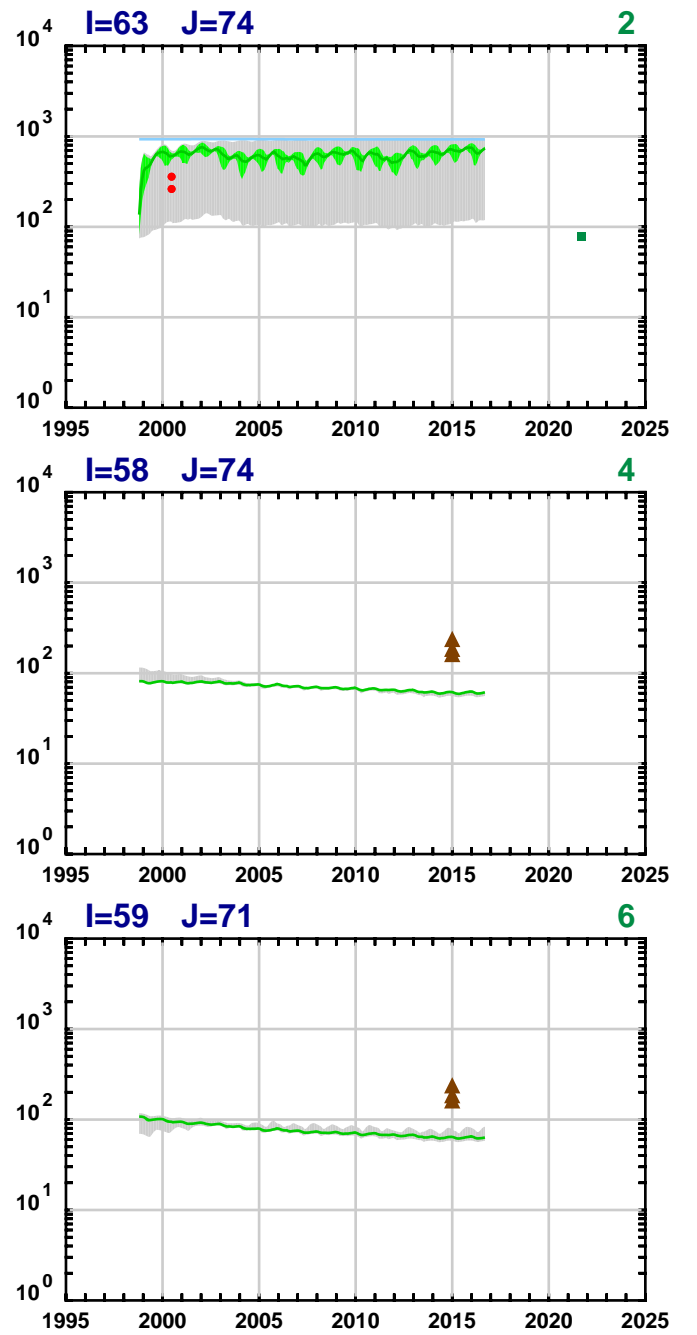
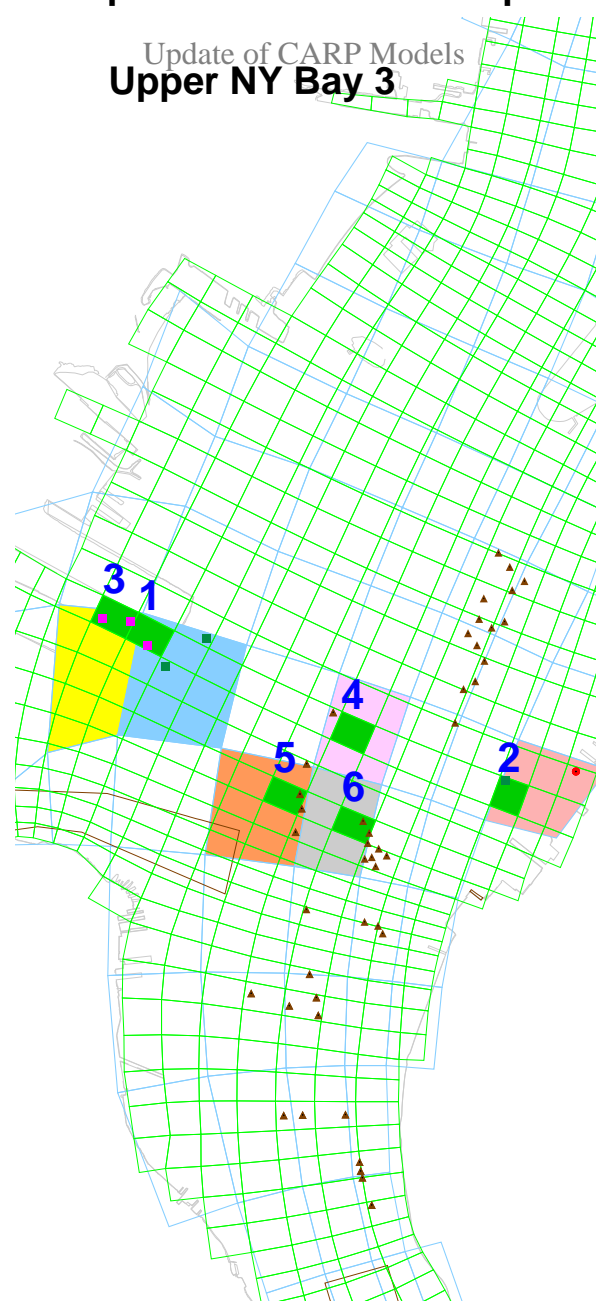
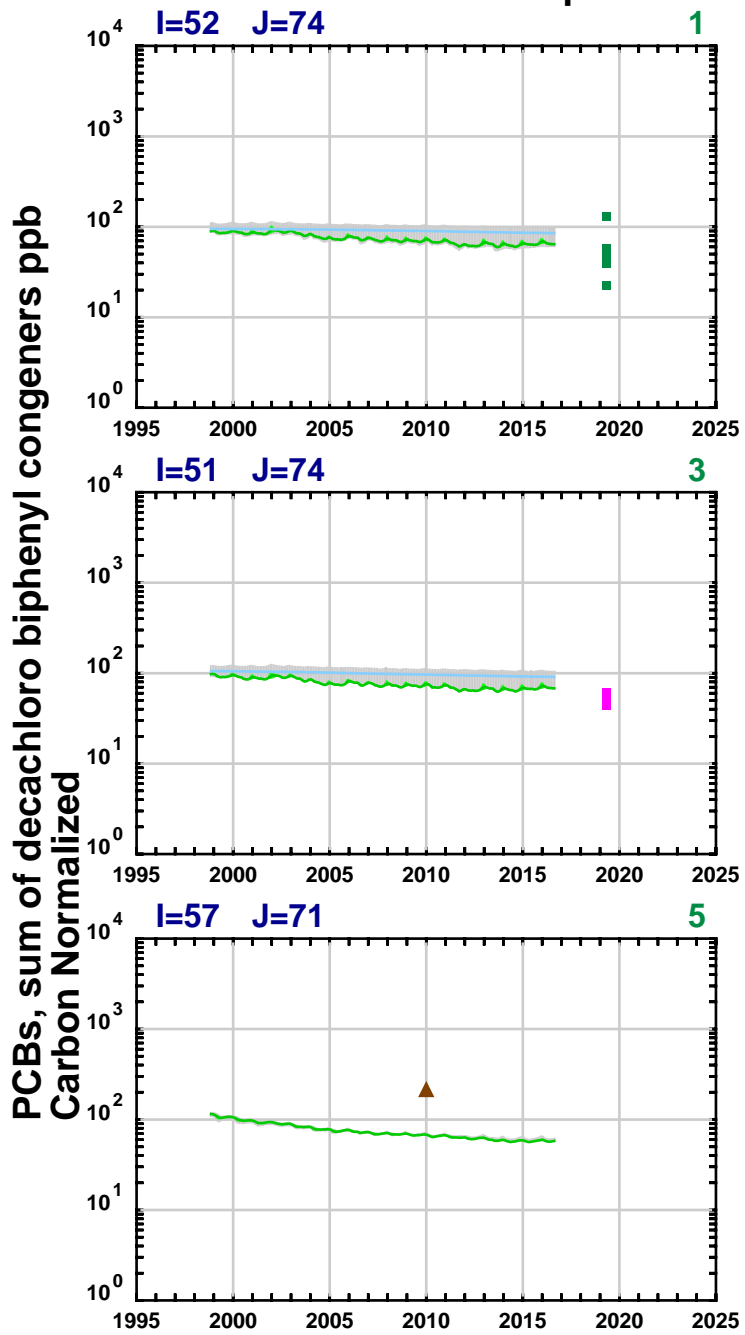
RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



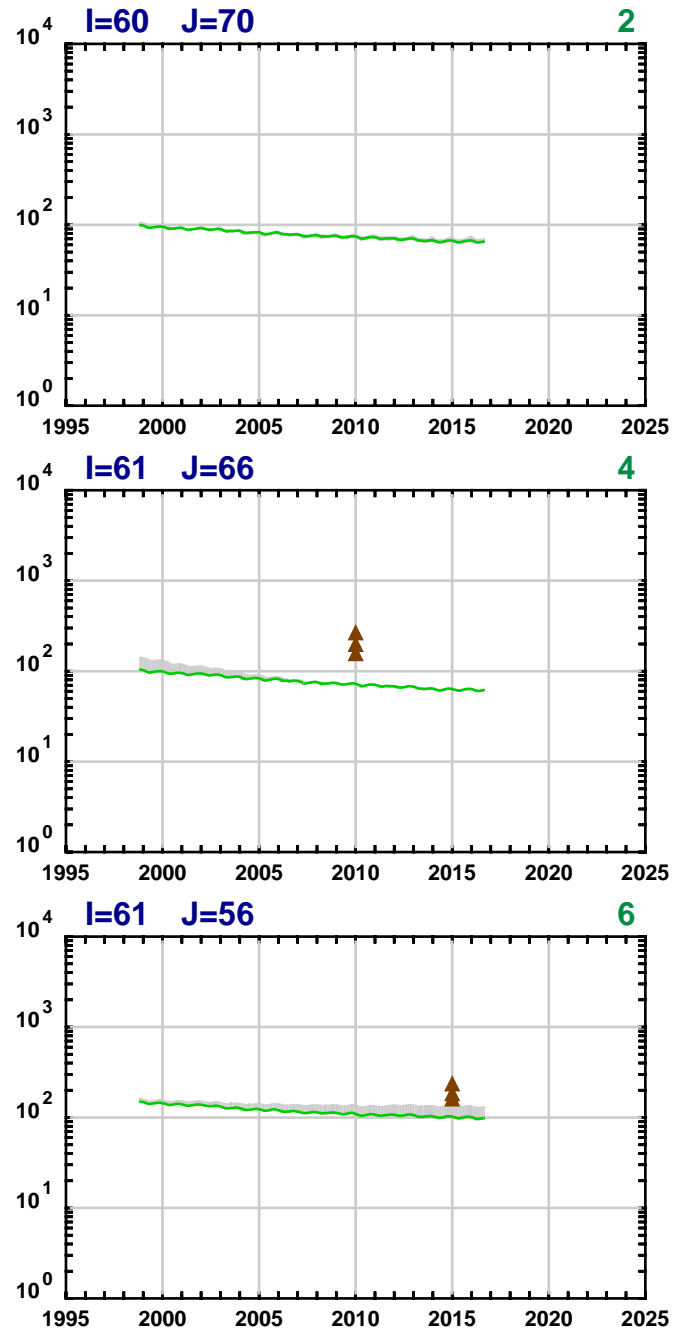
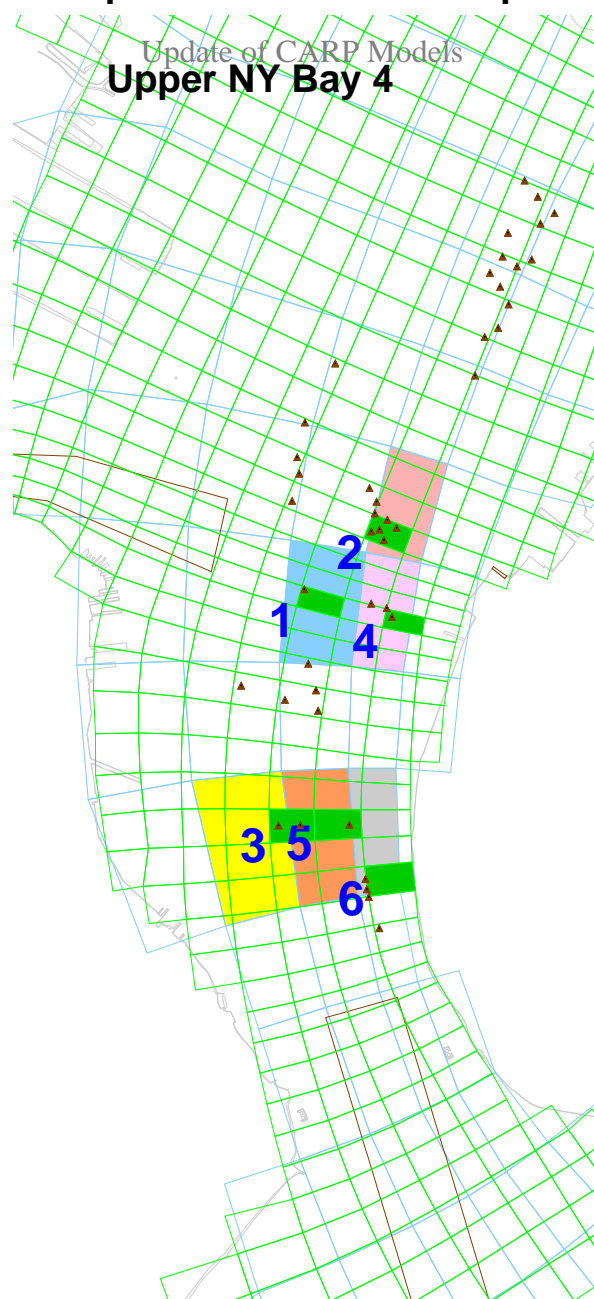
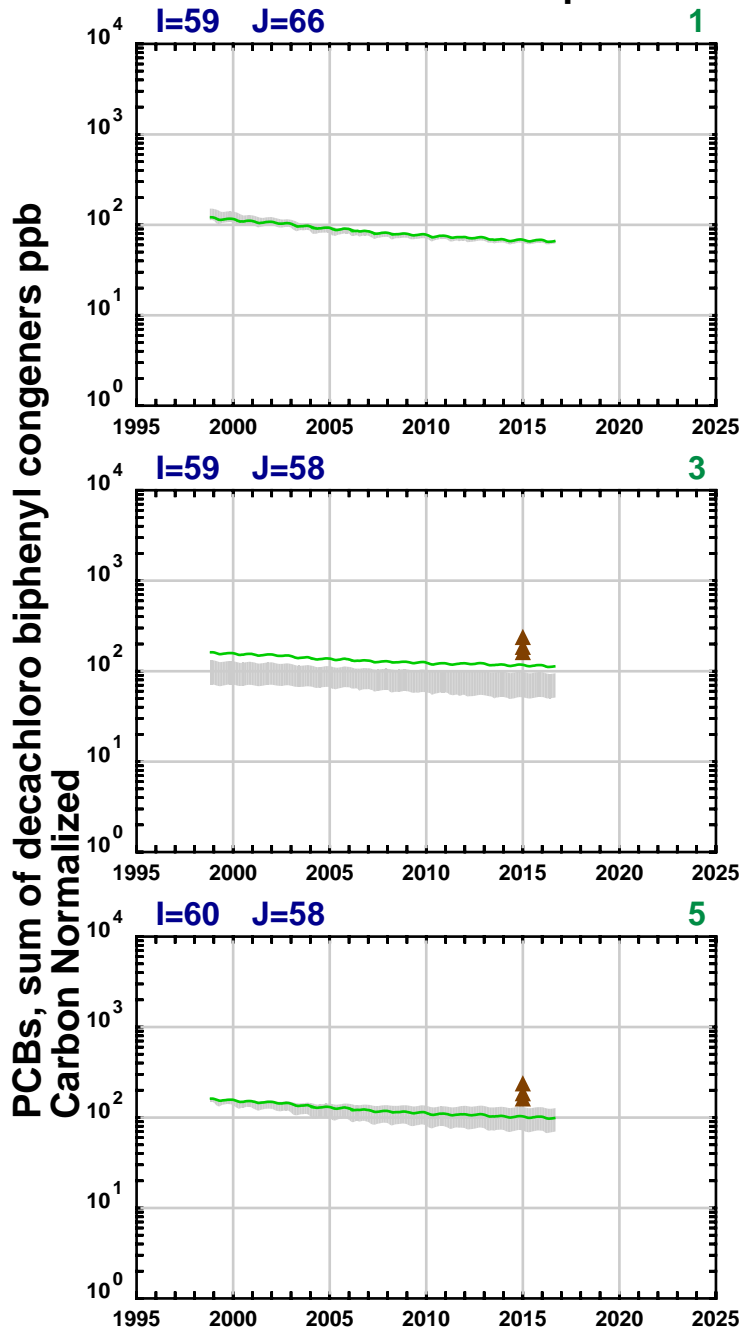
RUN18\_S2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

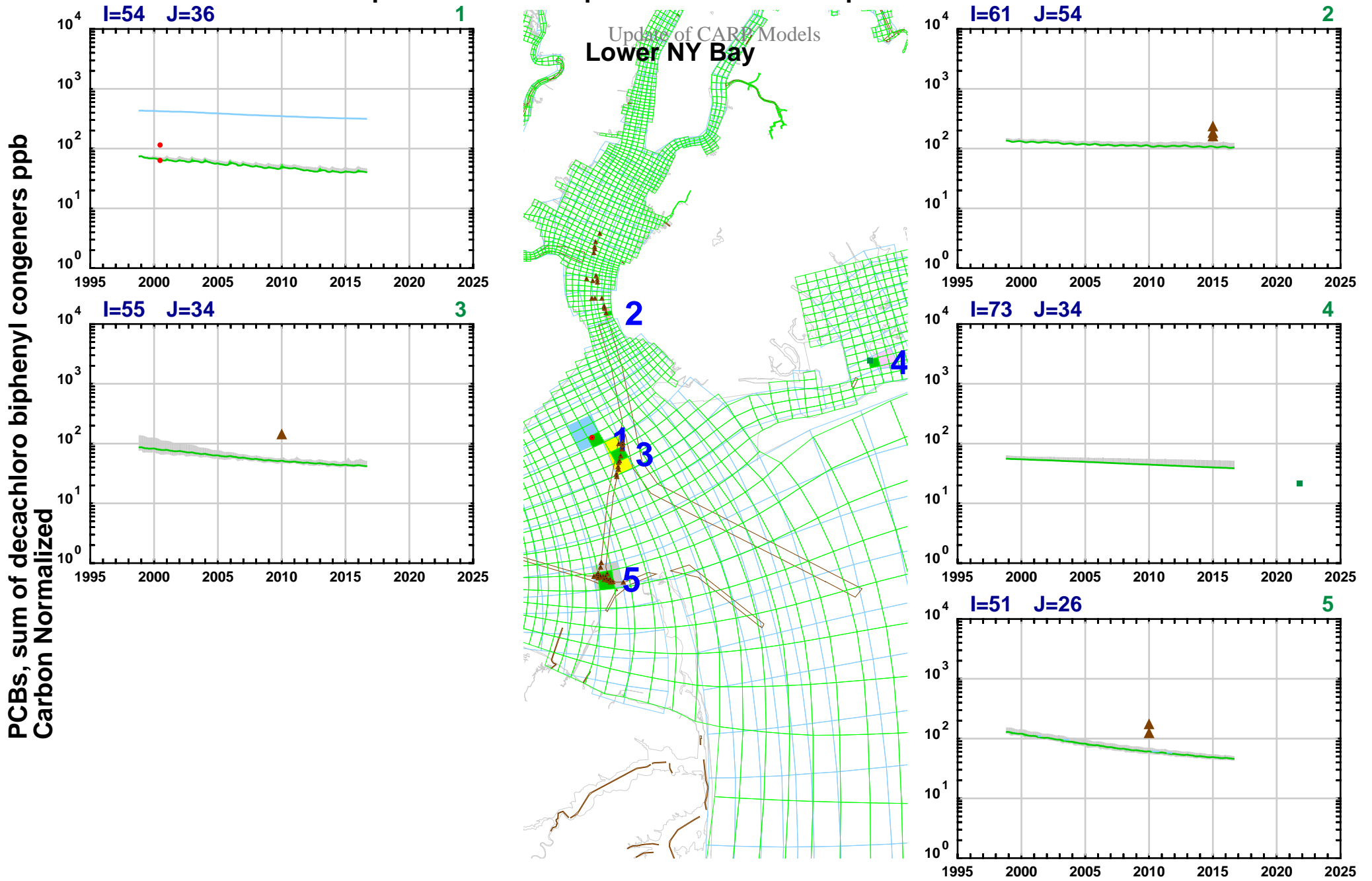


RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



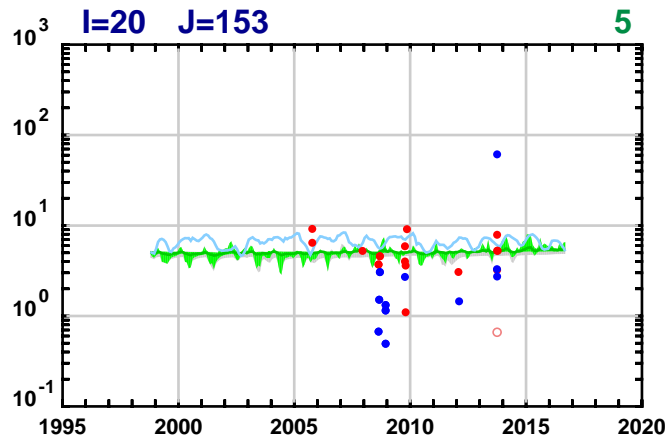
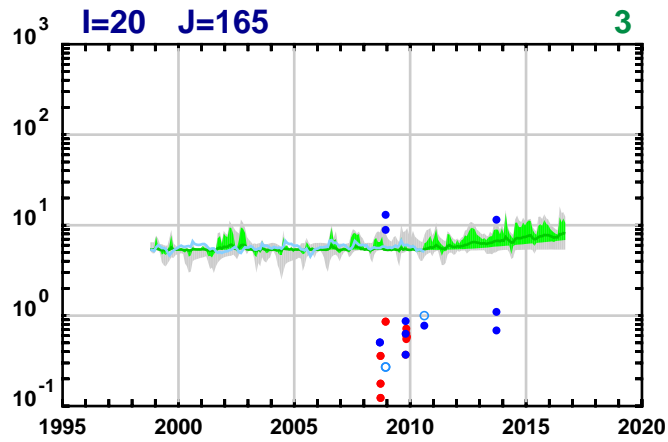
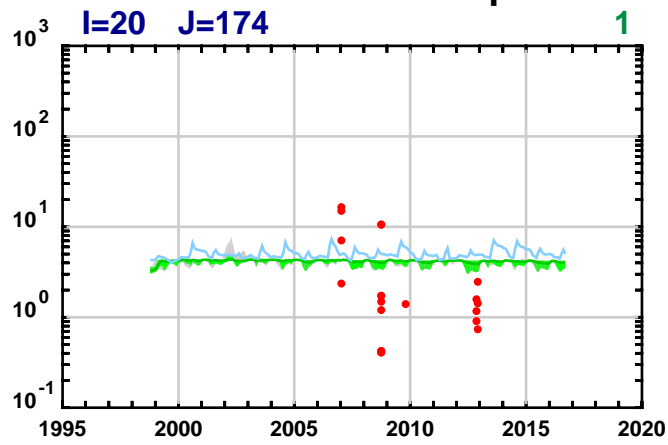
RUN18\_S2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

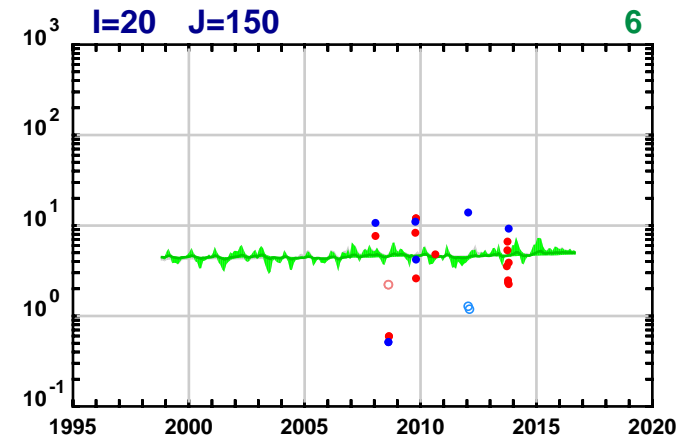
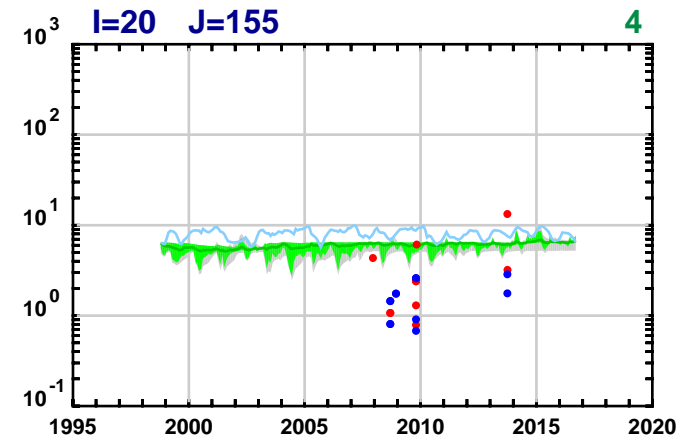
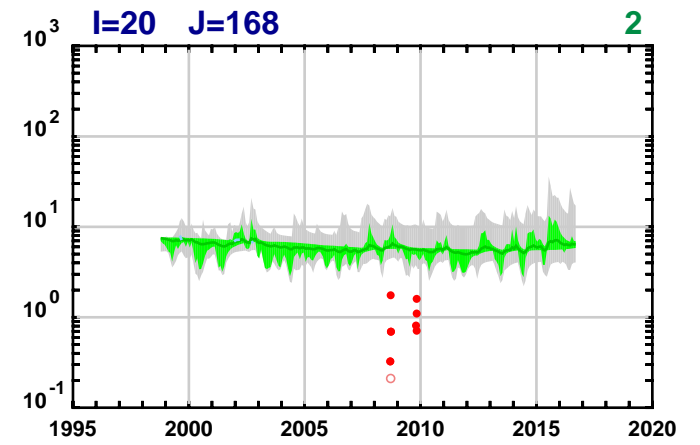
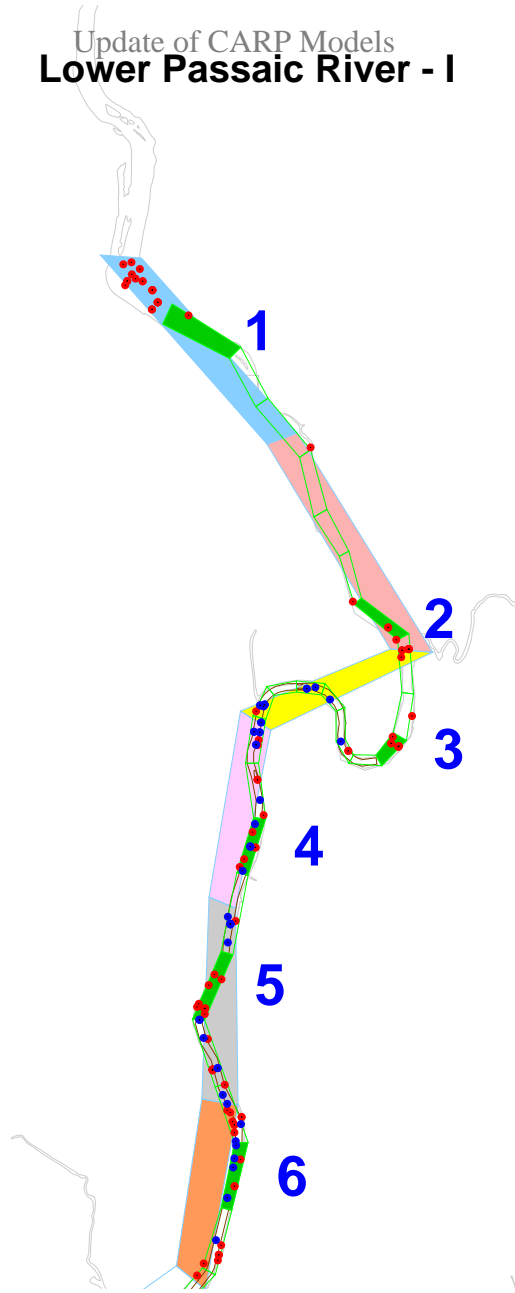
● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin ppt



## Update of CARP Models Lower Passaic River - I

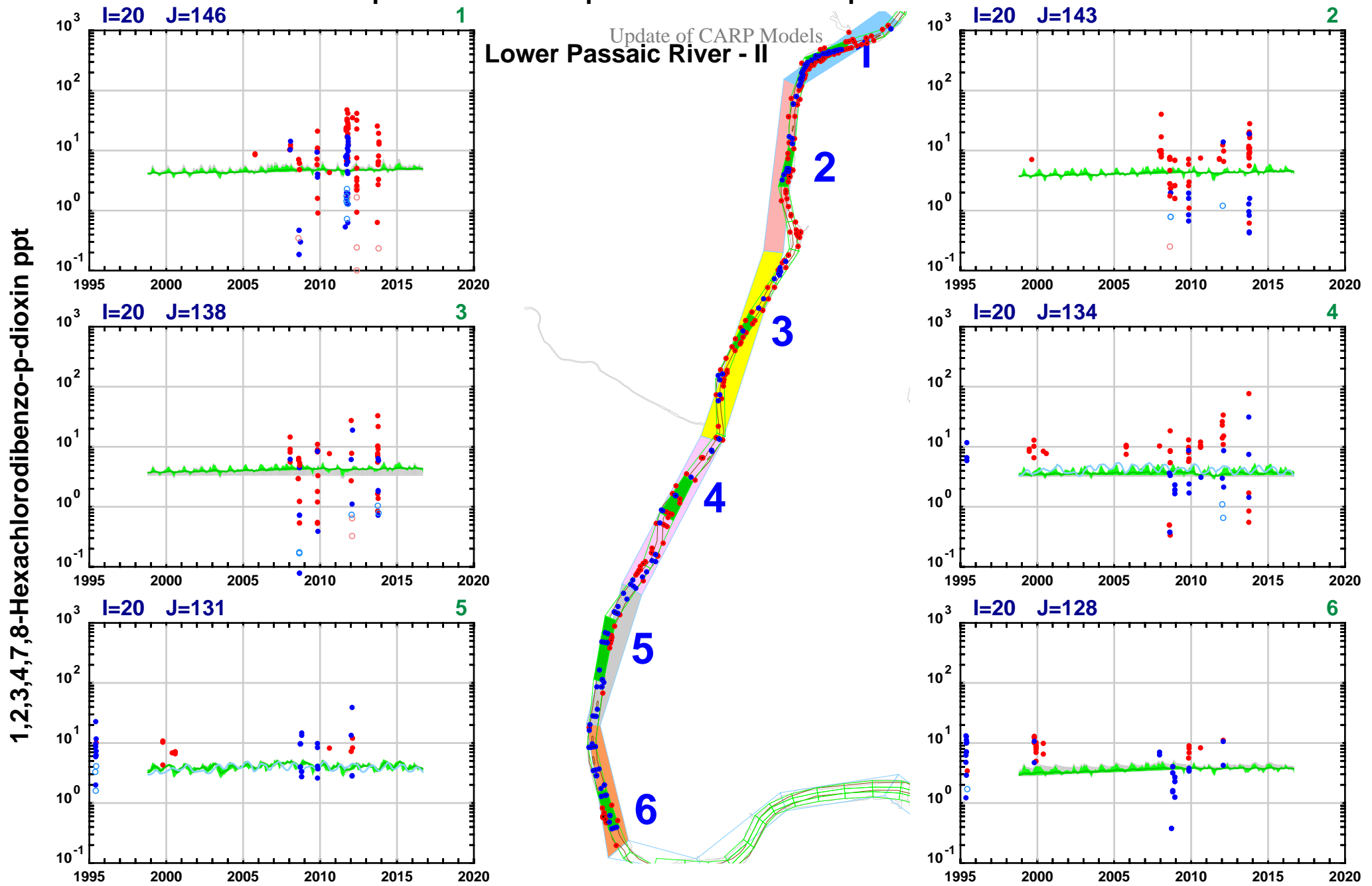


RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

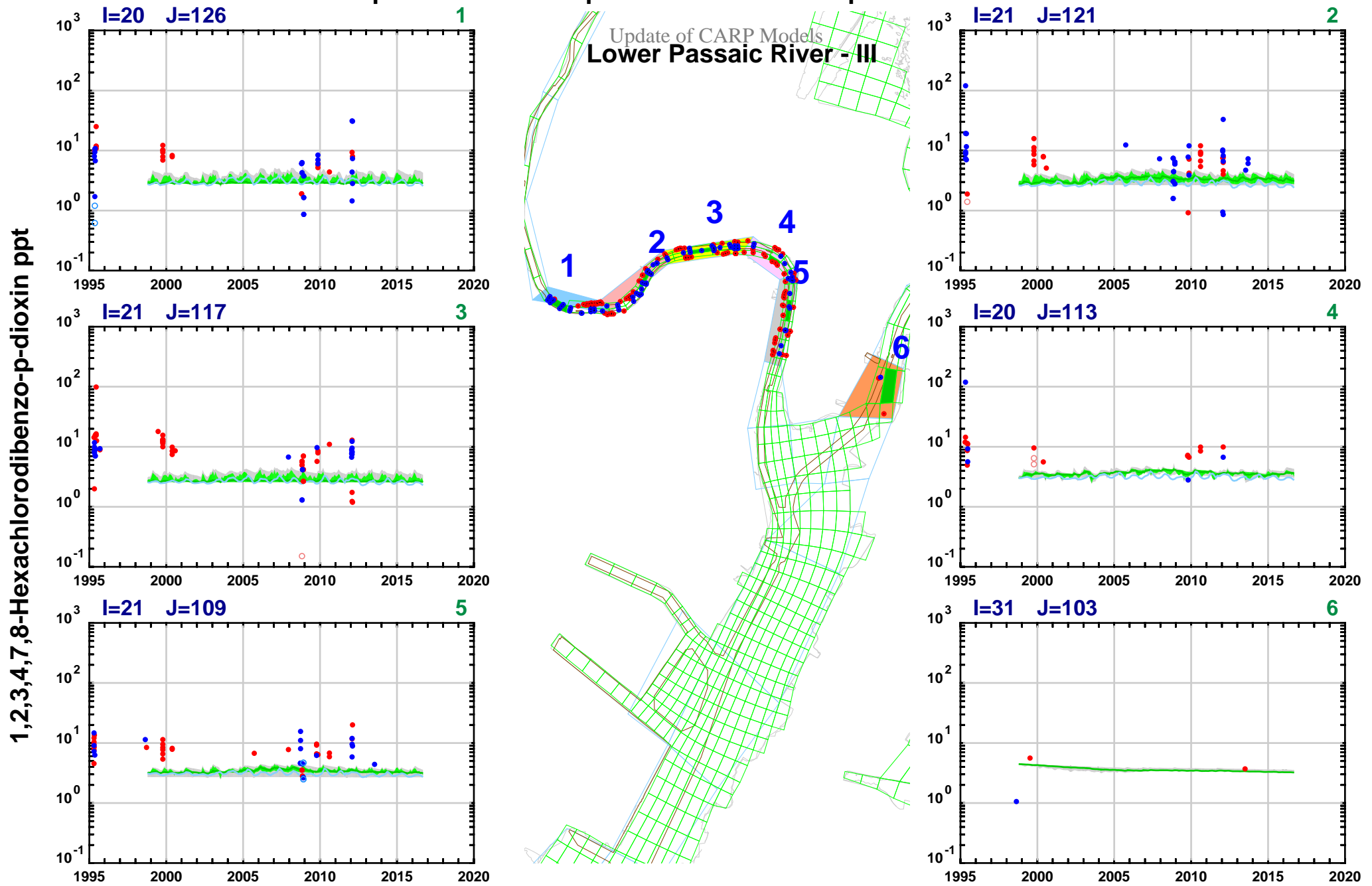


RUN18\_S3

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



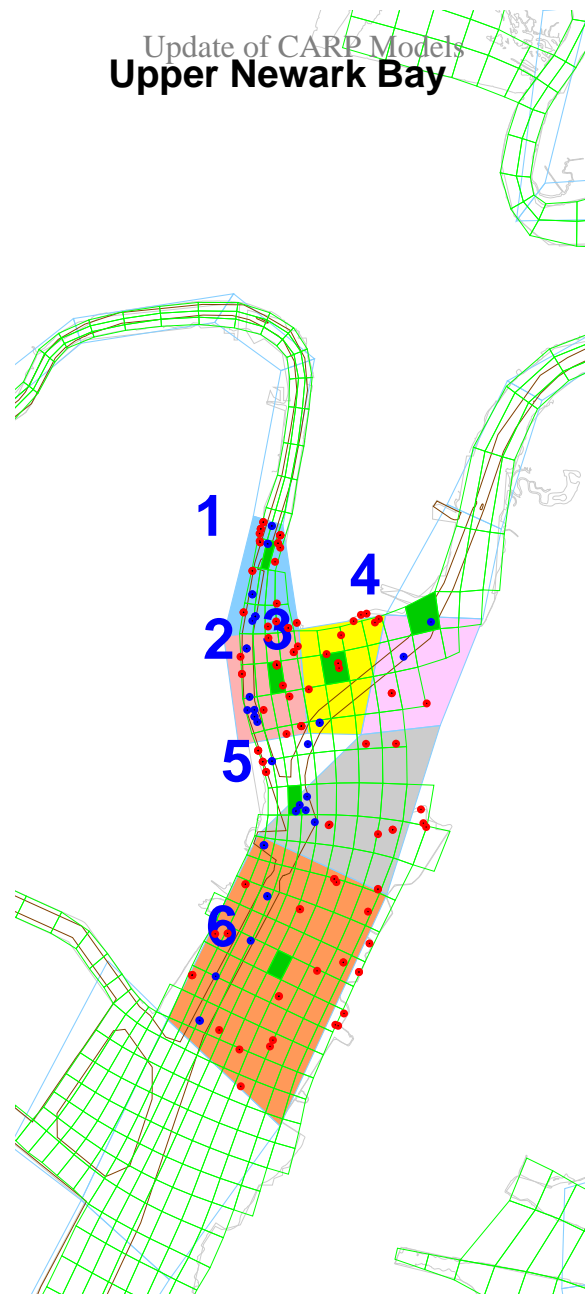
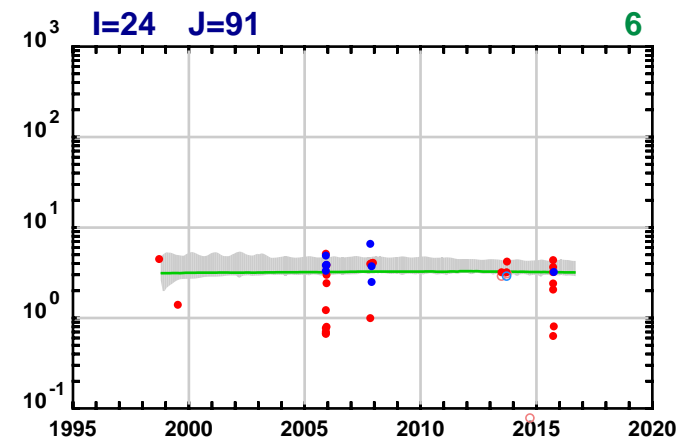
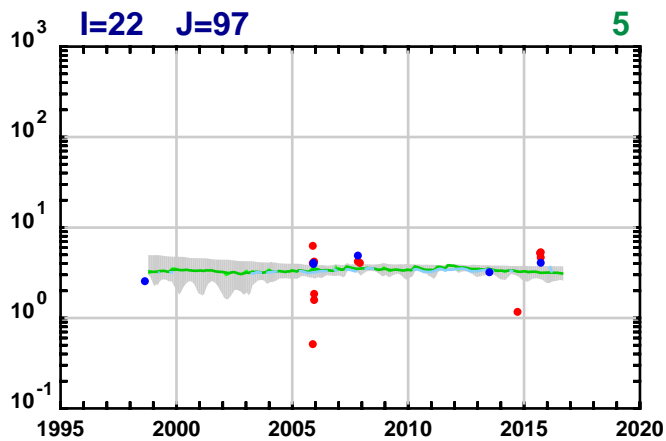
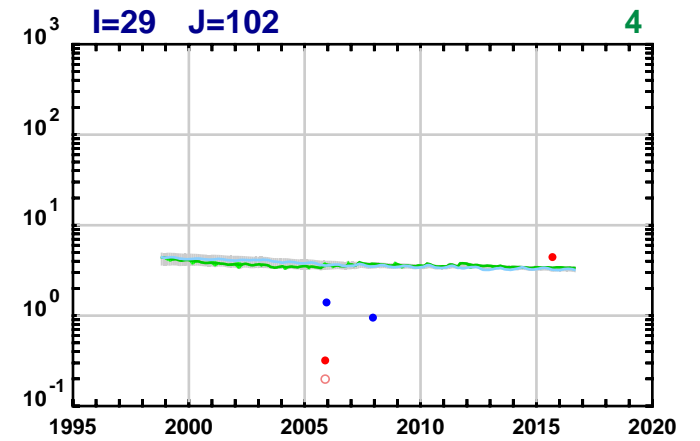
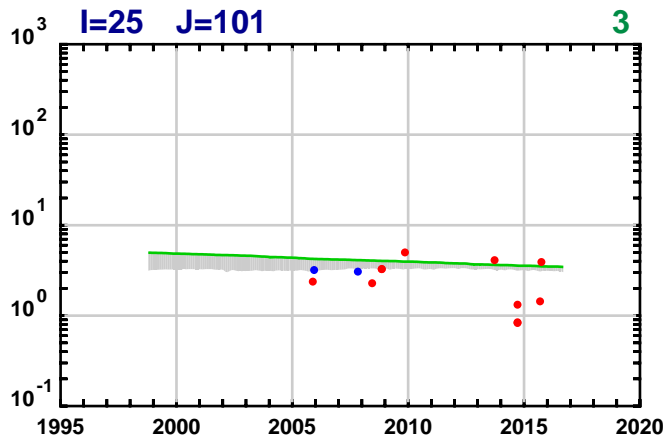
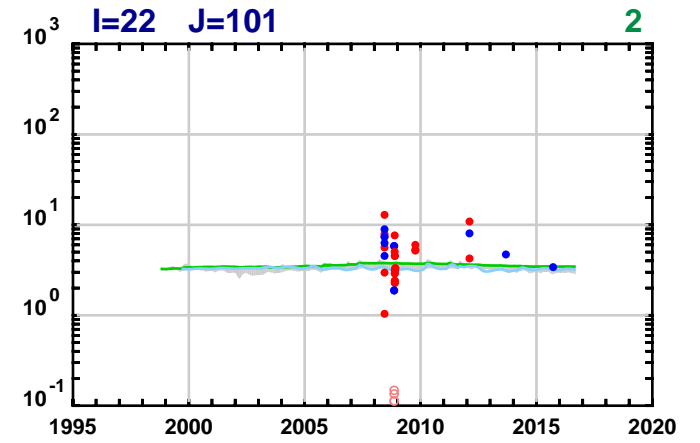
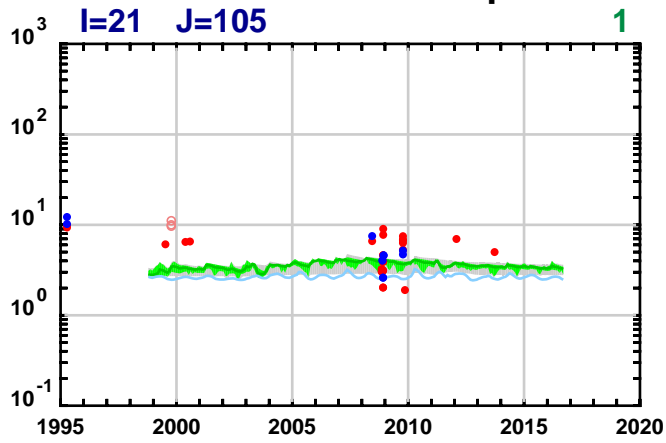
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin ppt



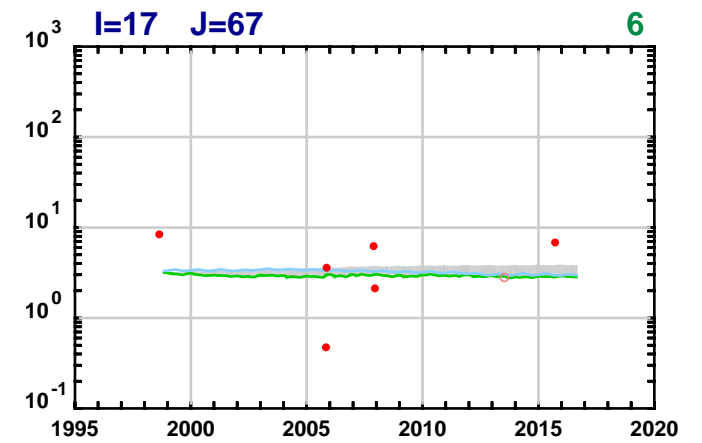
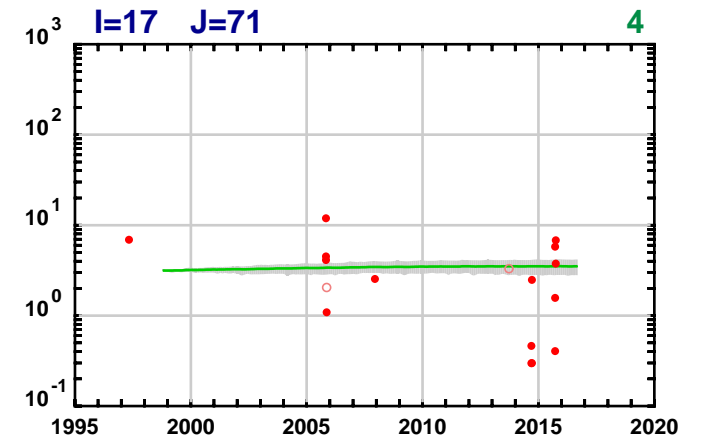
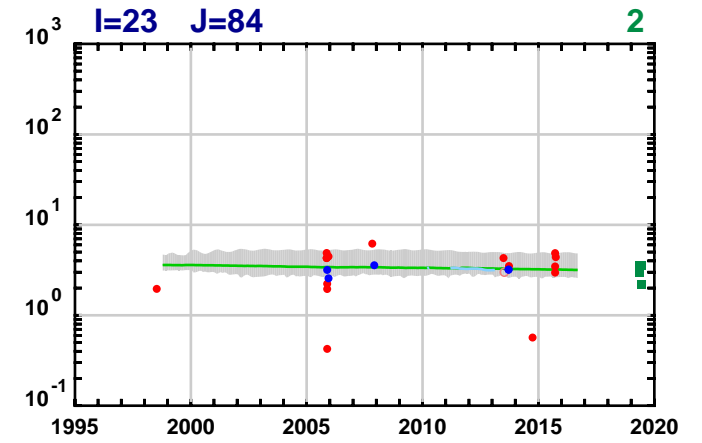
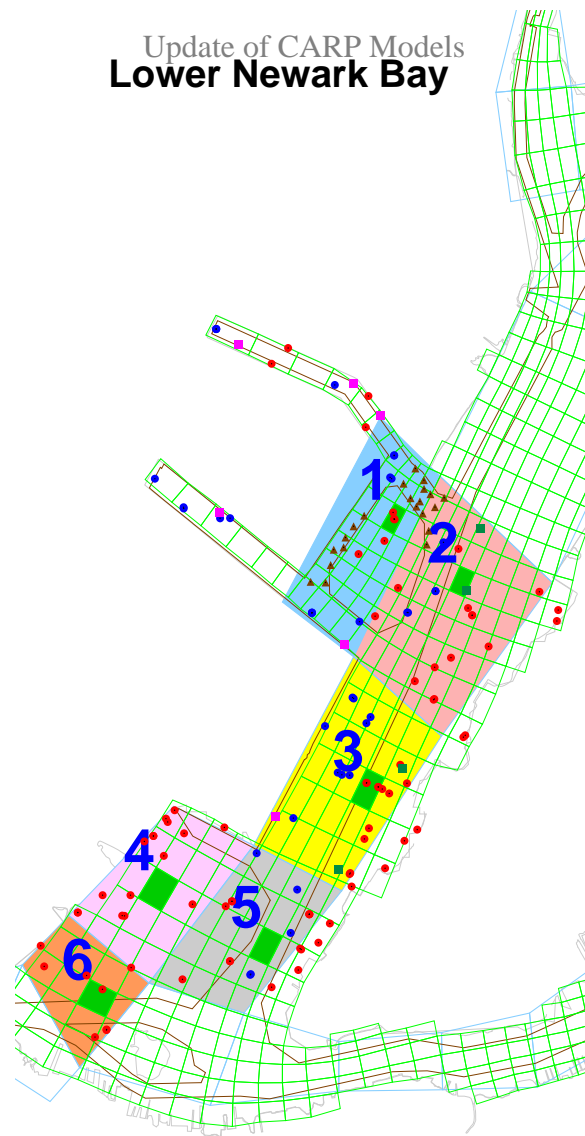
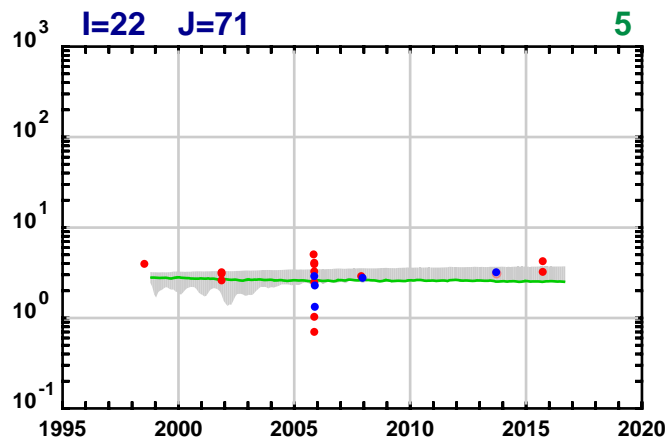
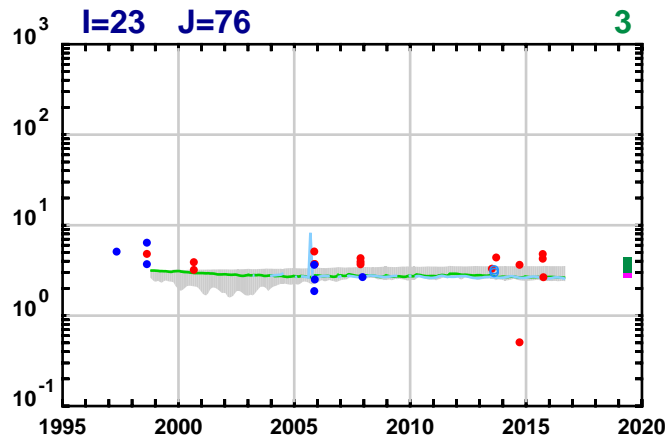
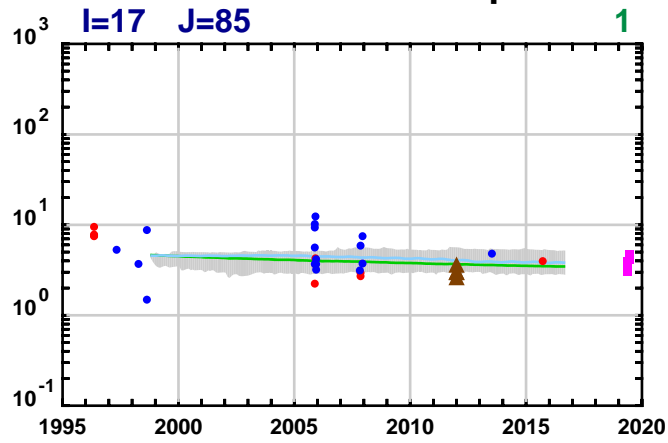
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin ppt



RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

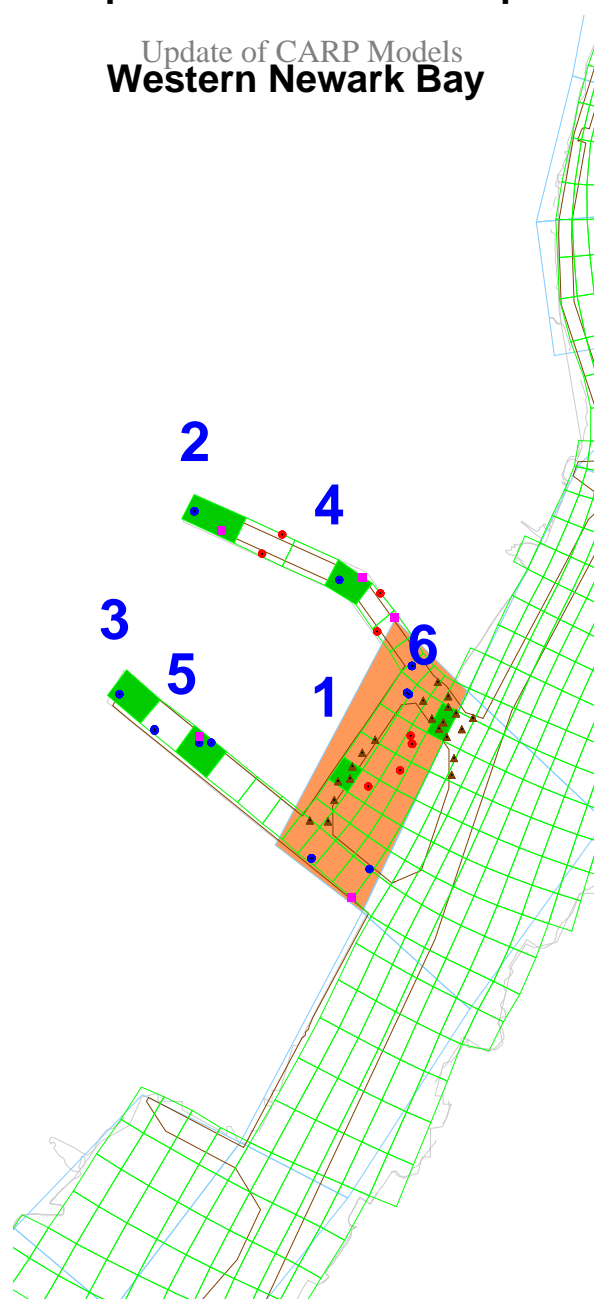
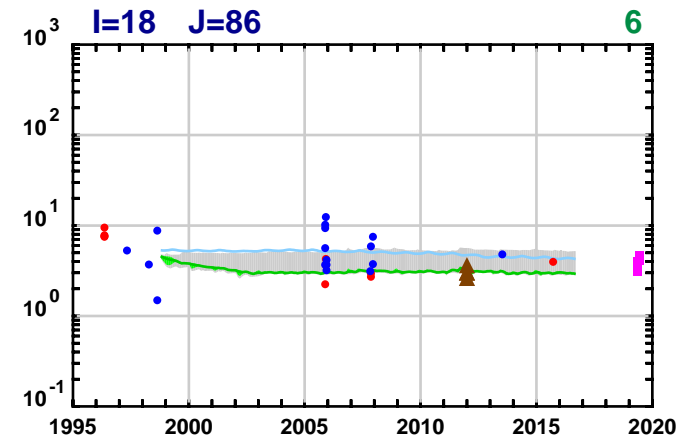
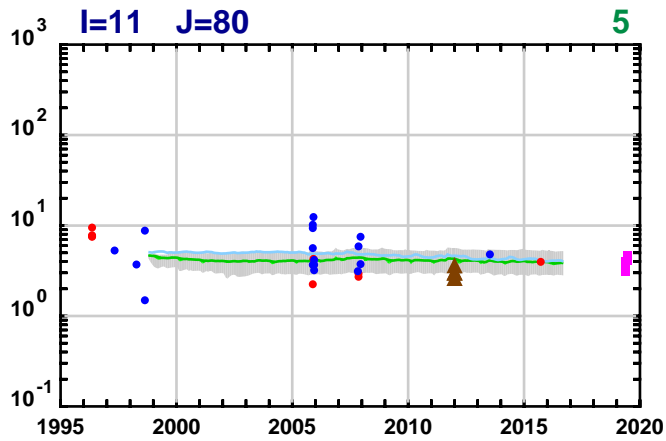
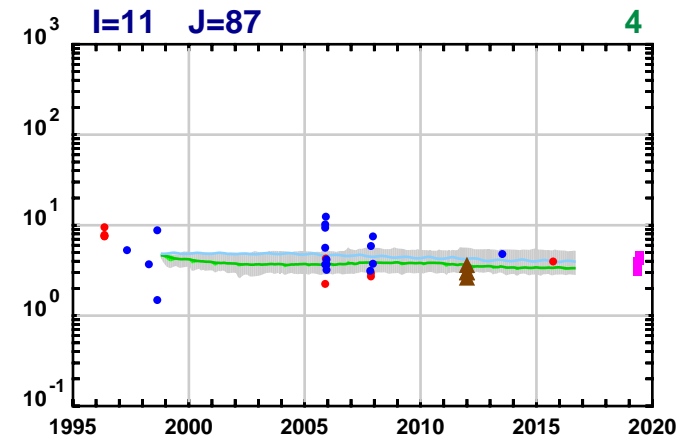
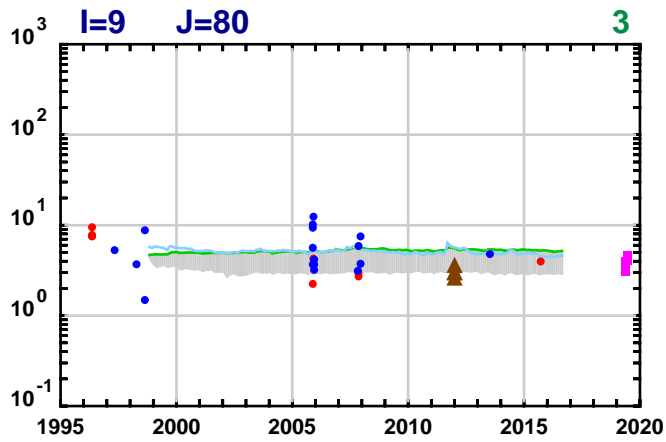
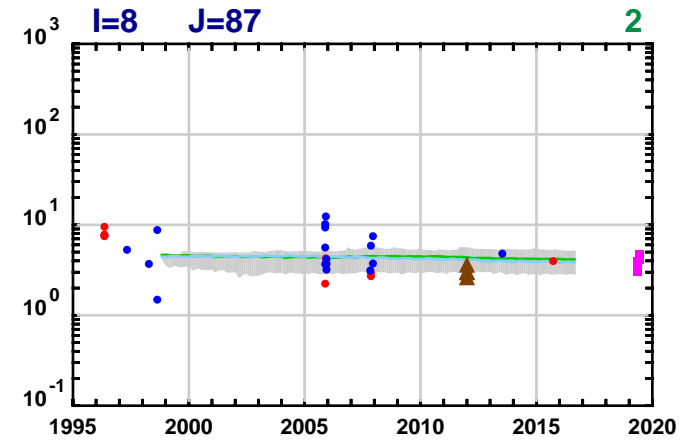
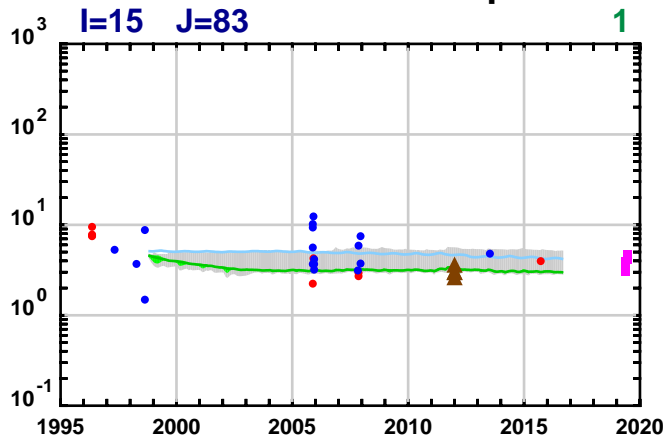
● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin ppt

Update of CARP Models  
Western Newark Bay



**RUN18\_S3**

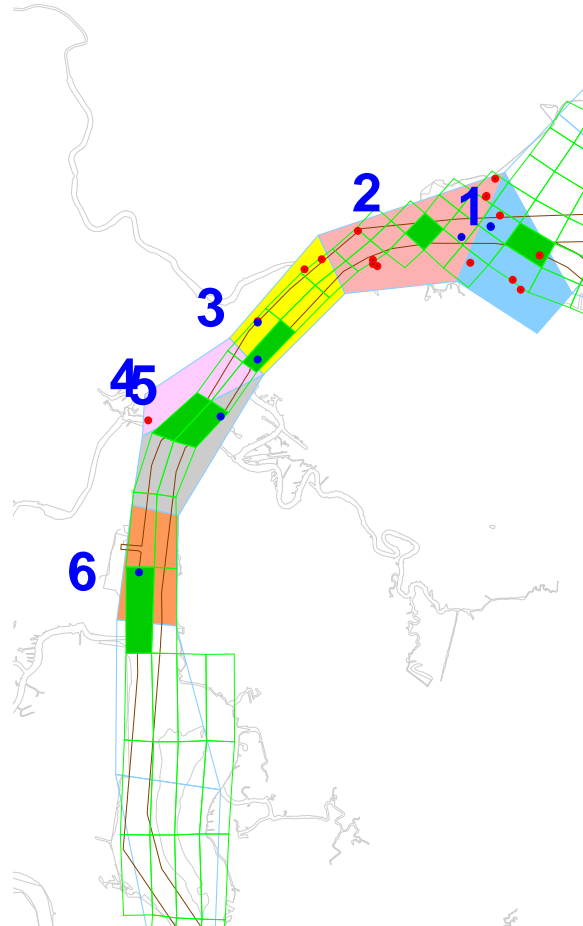
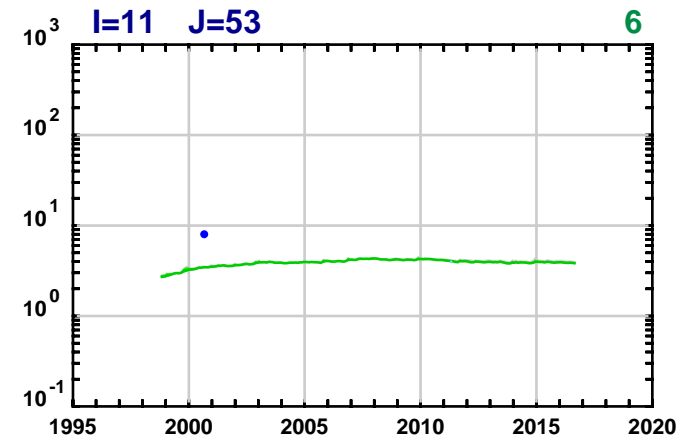
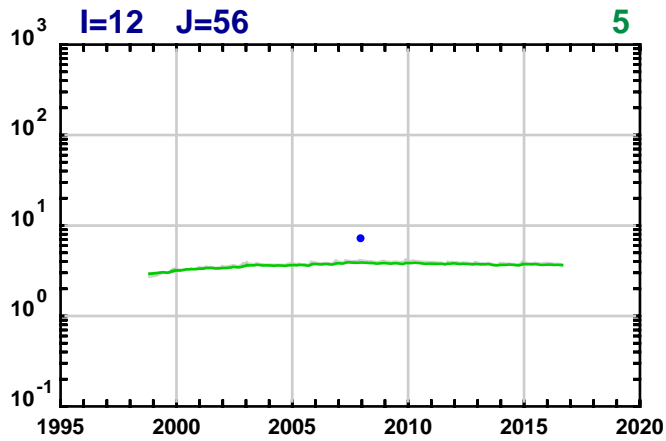
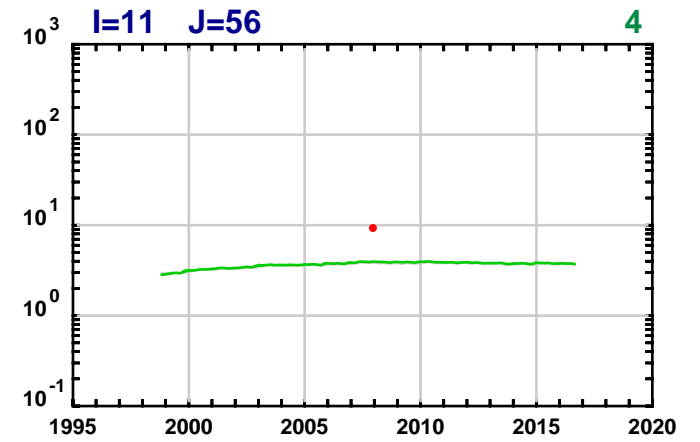
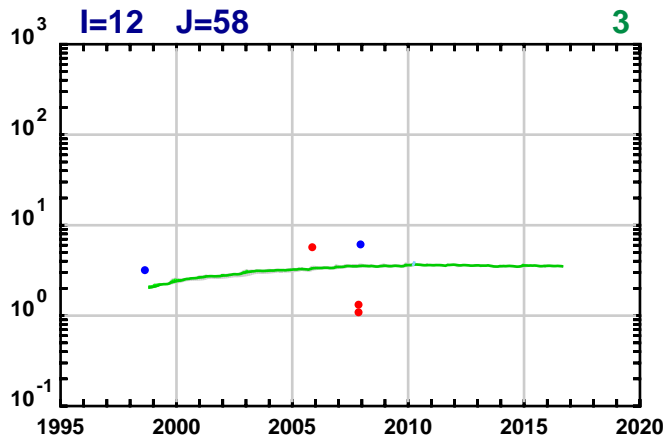
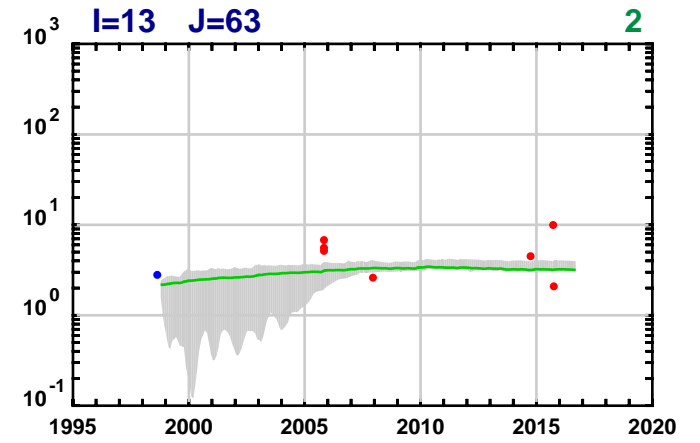
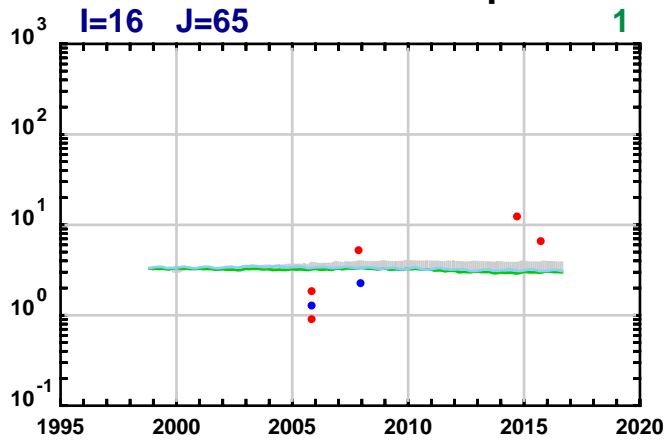
**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin ppt



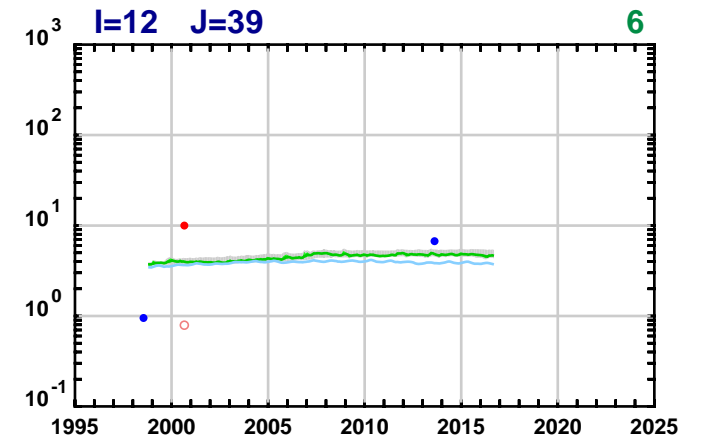
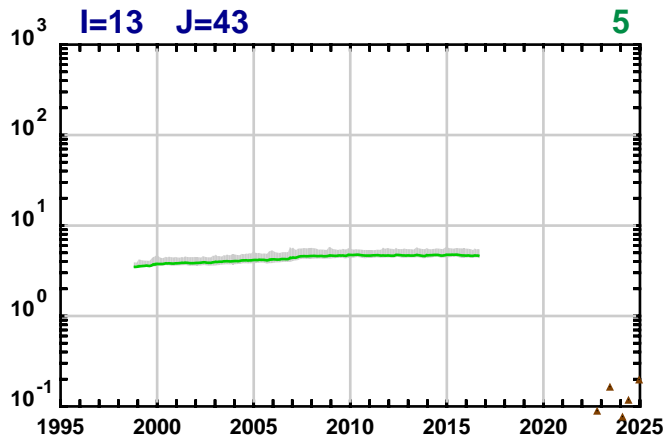
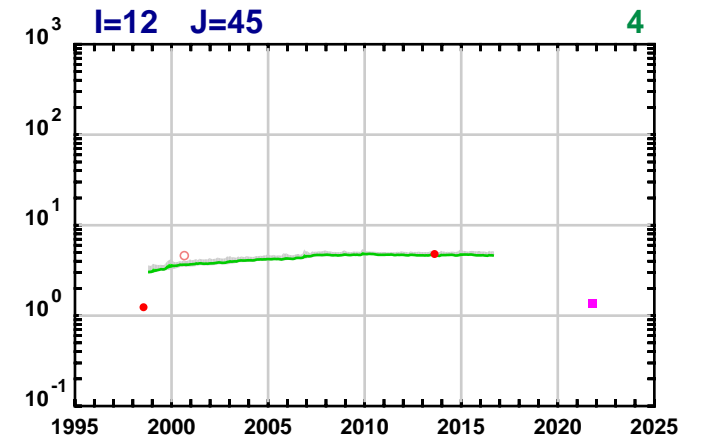
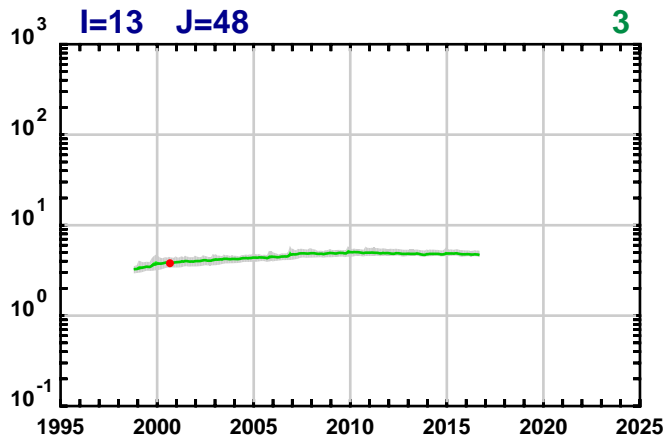
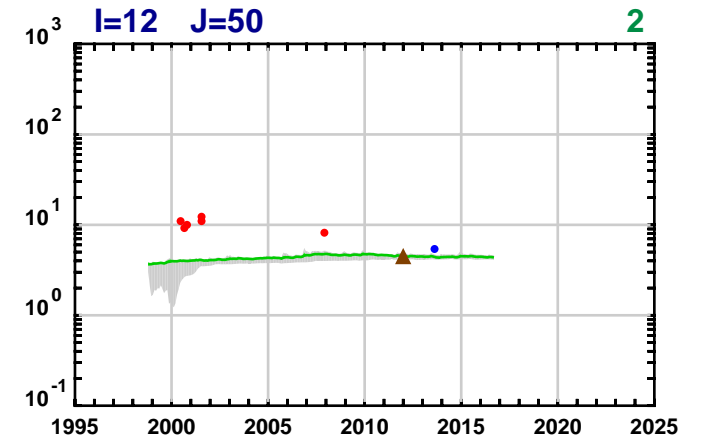
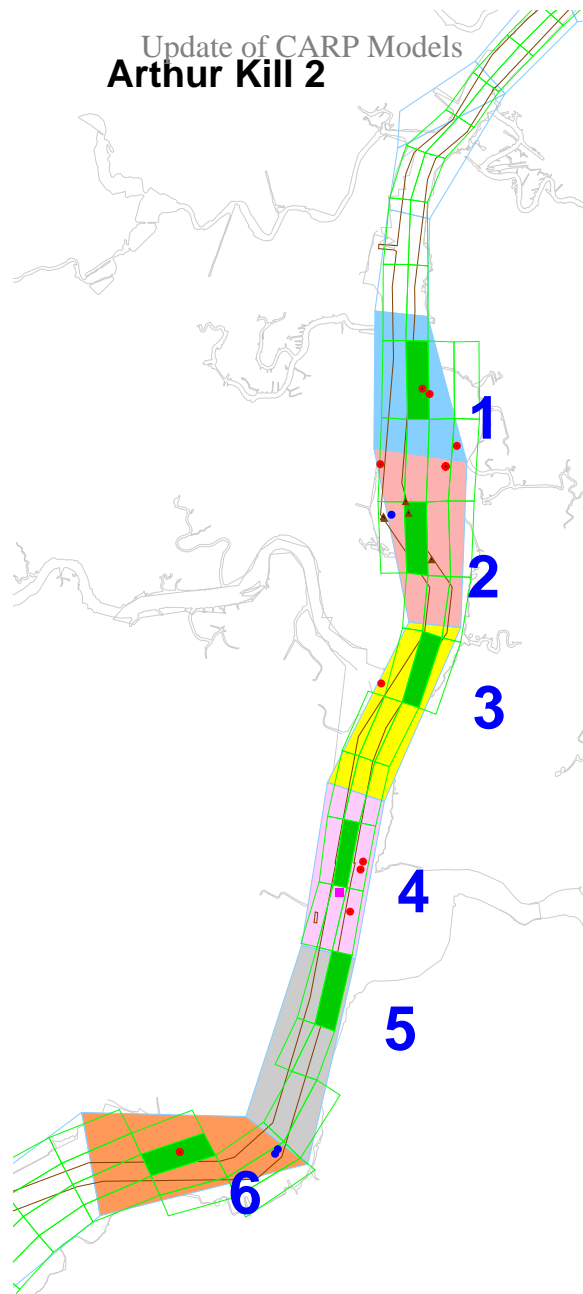
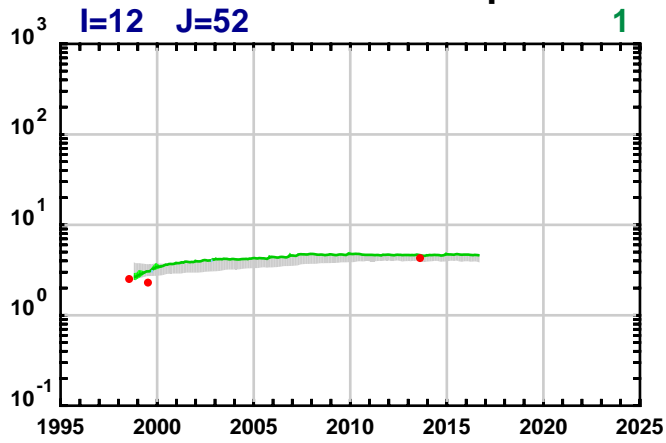
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin ppt

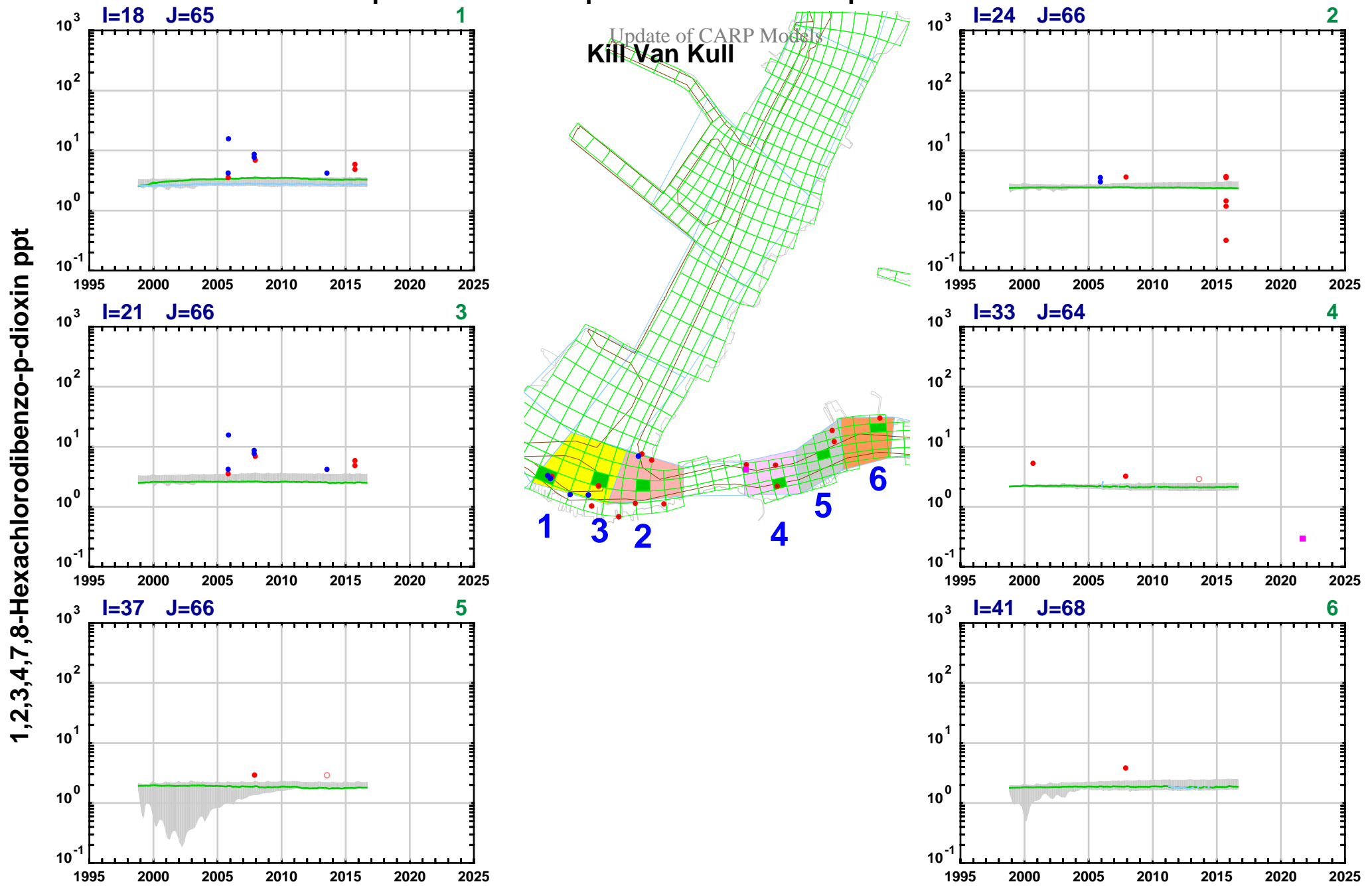


RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

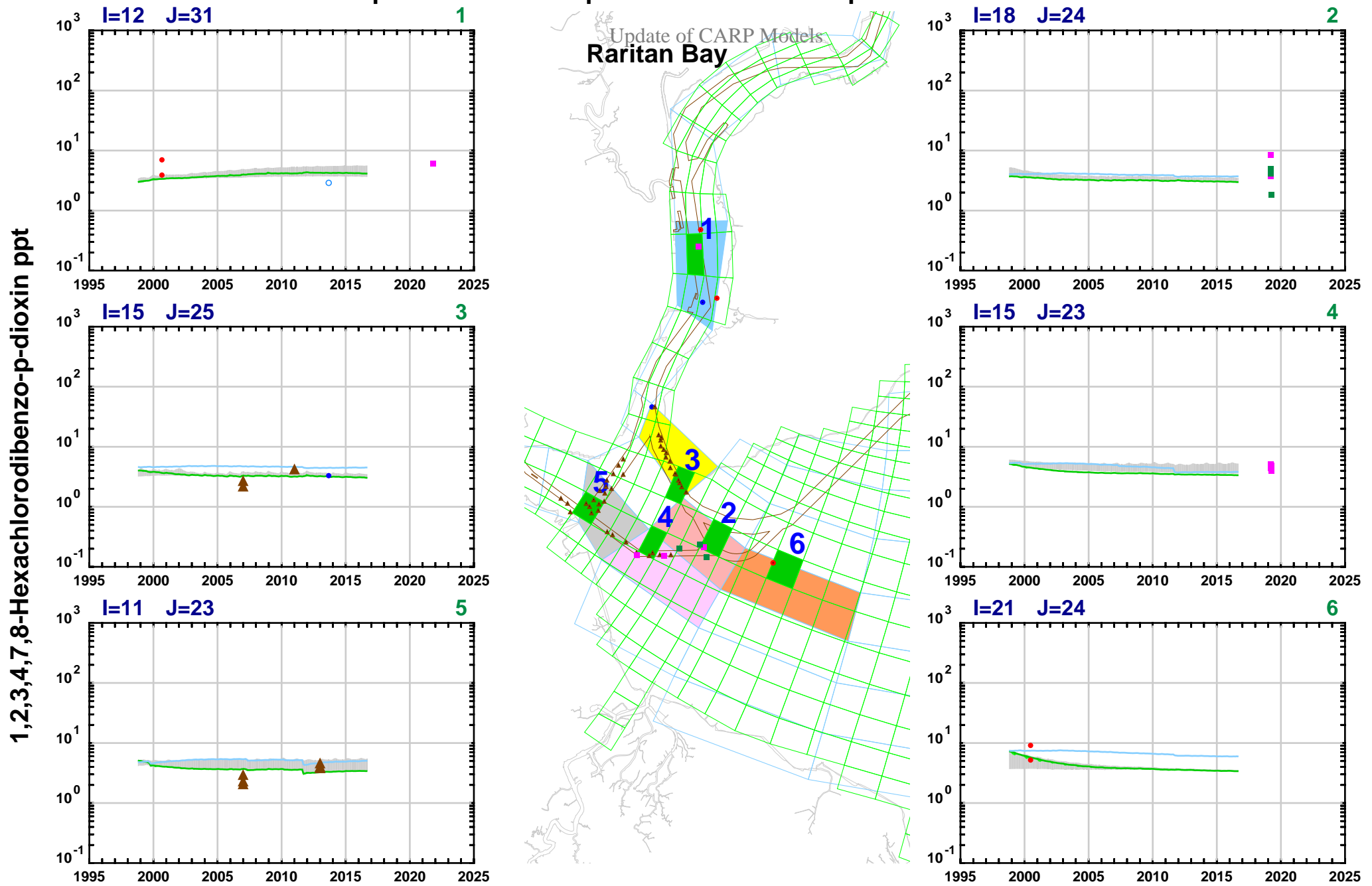


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

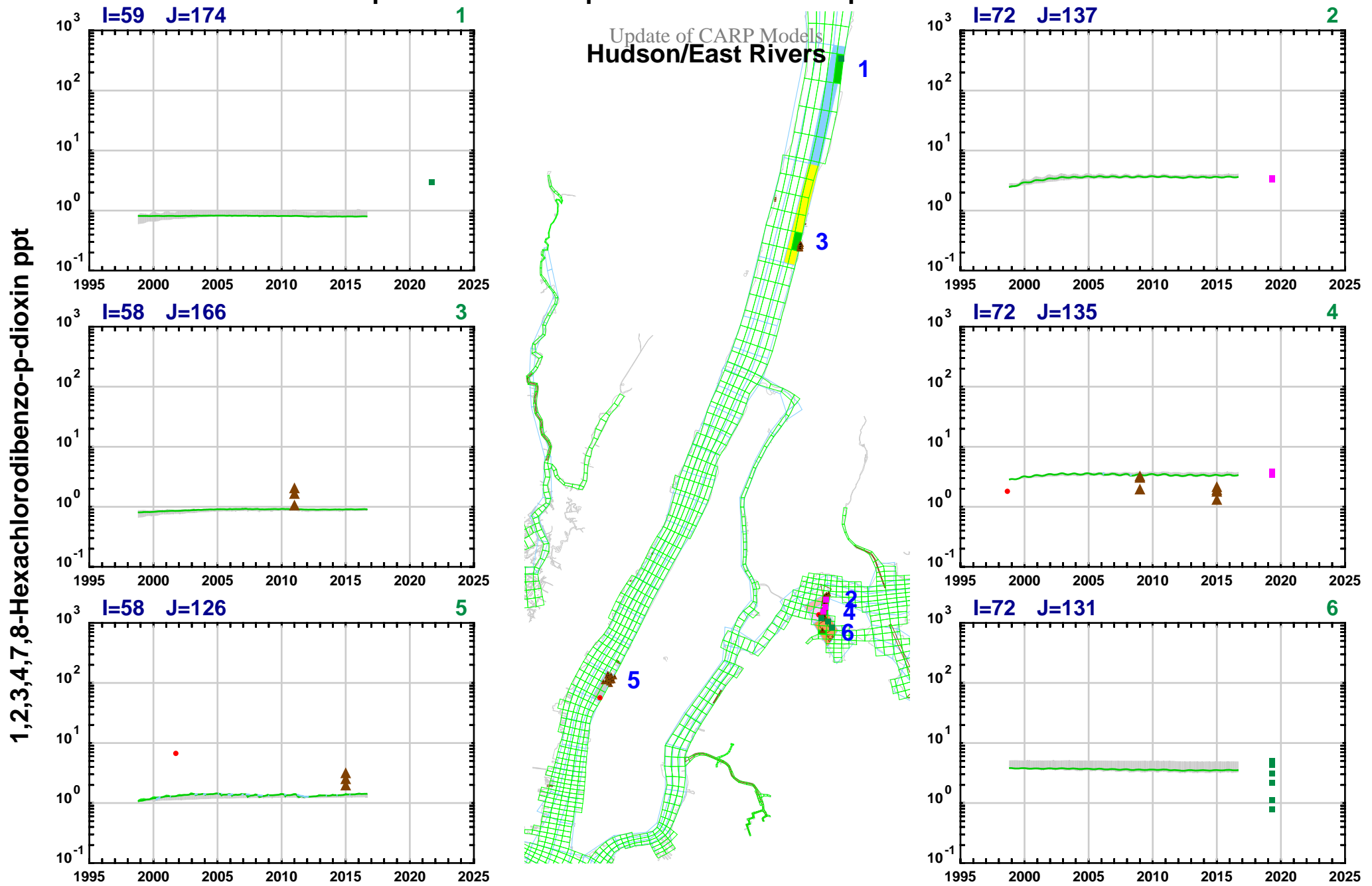


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

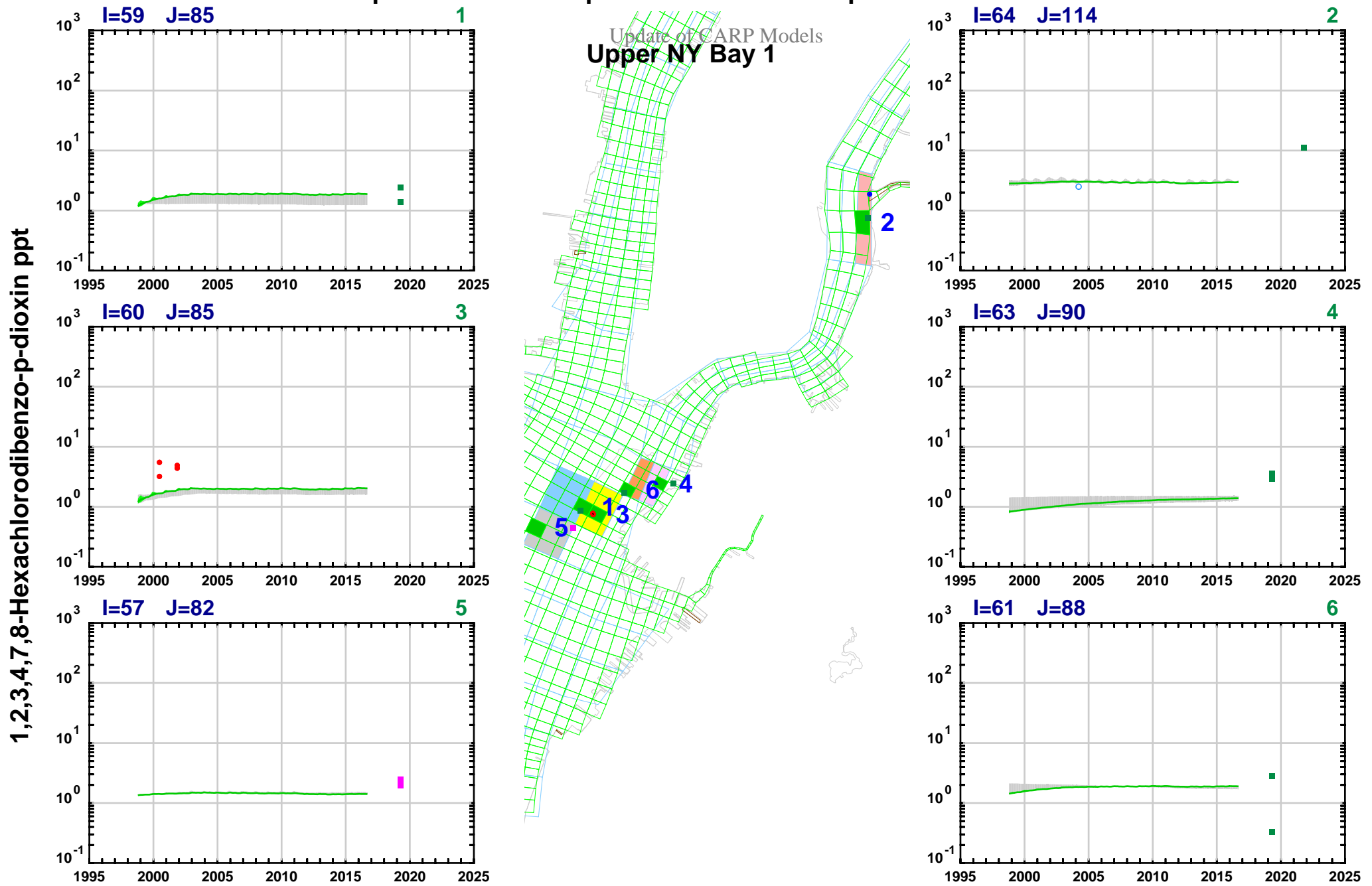


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



**RUN18\_S3**

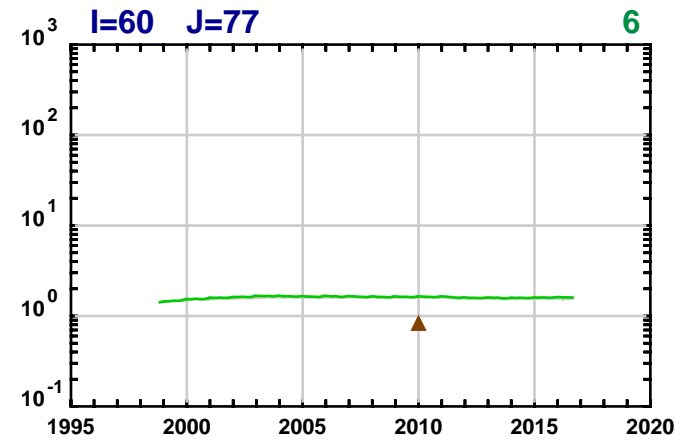
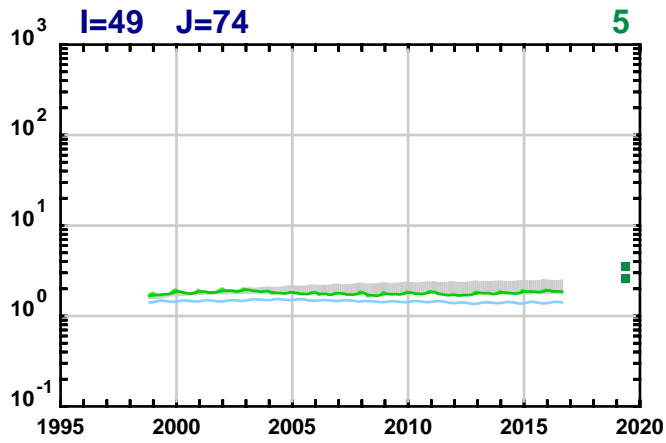
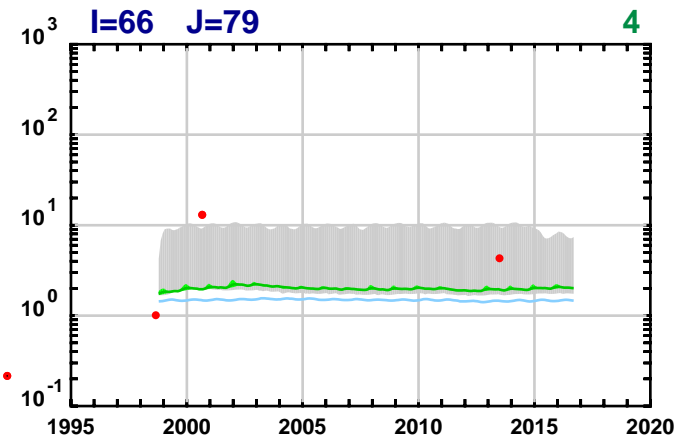
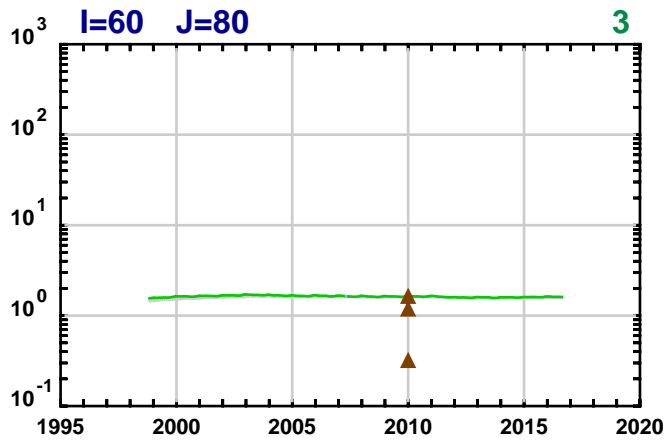
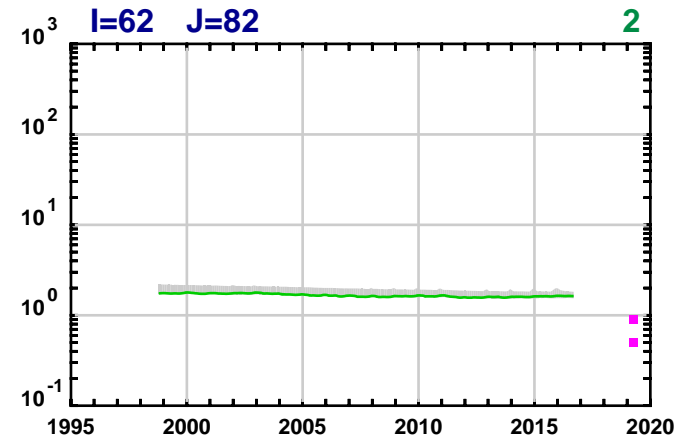
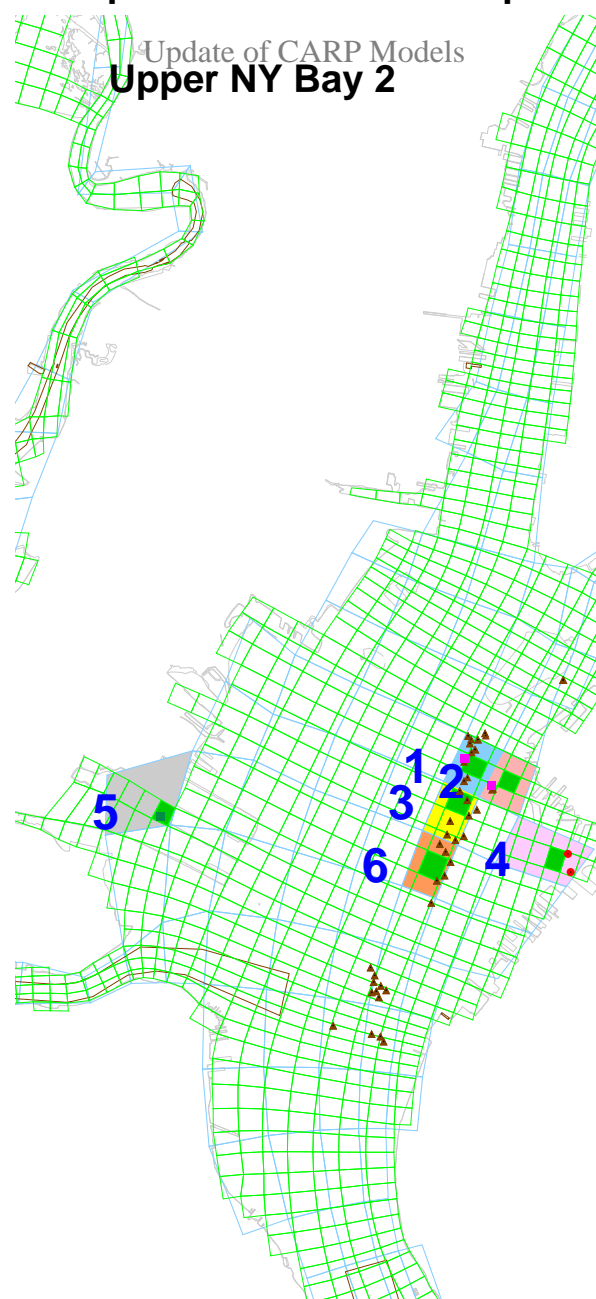
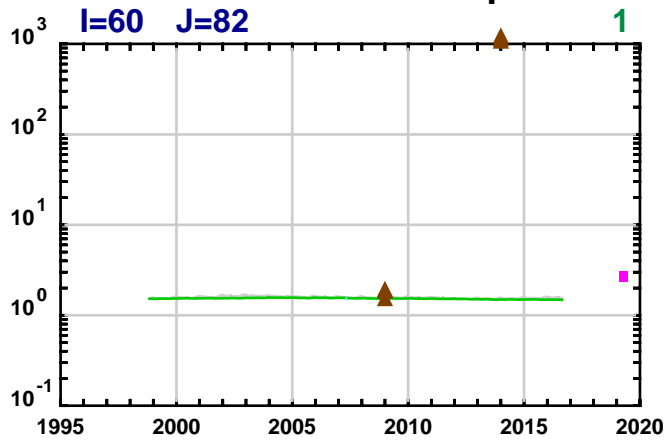
**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin ppt



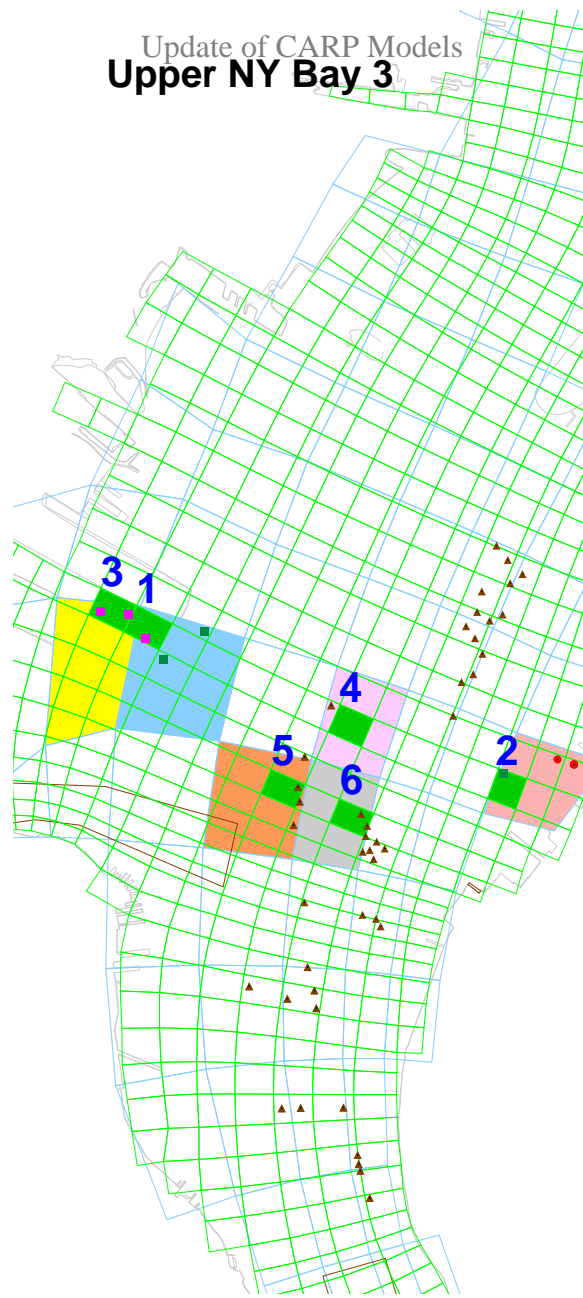
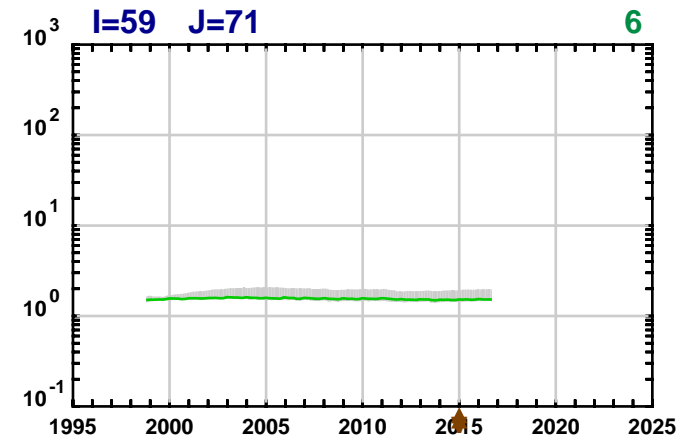
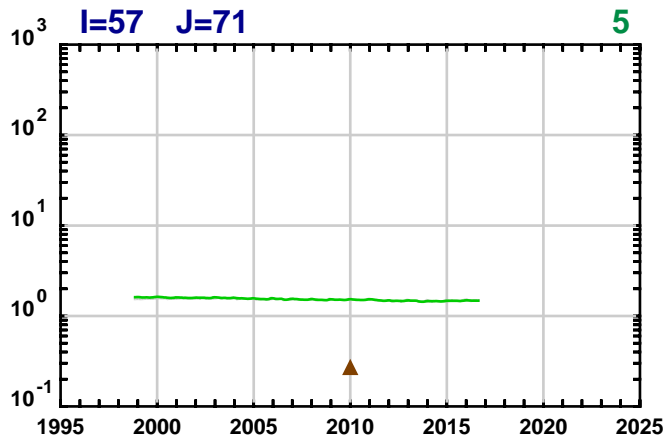
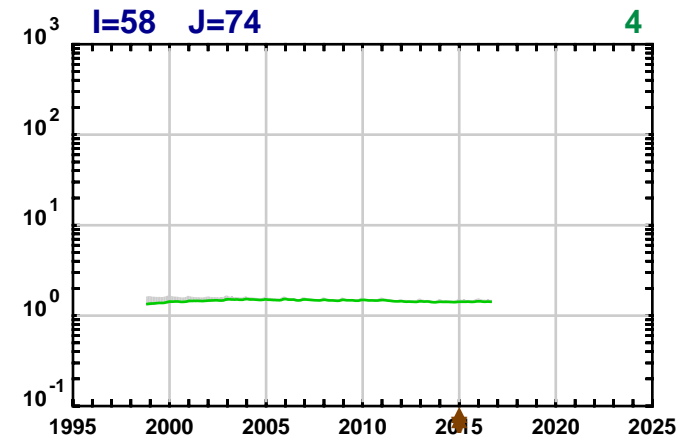
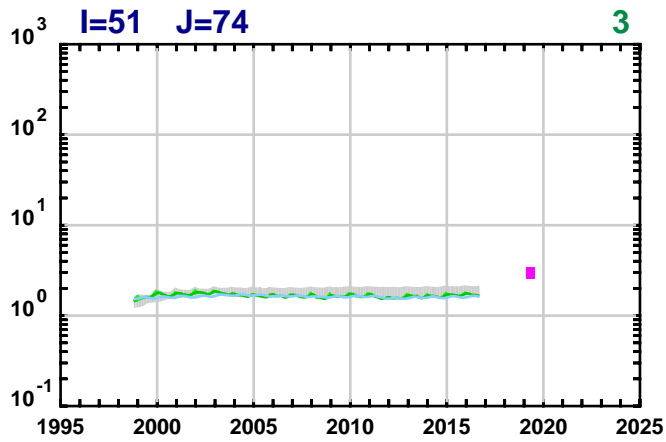
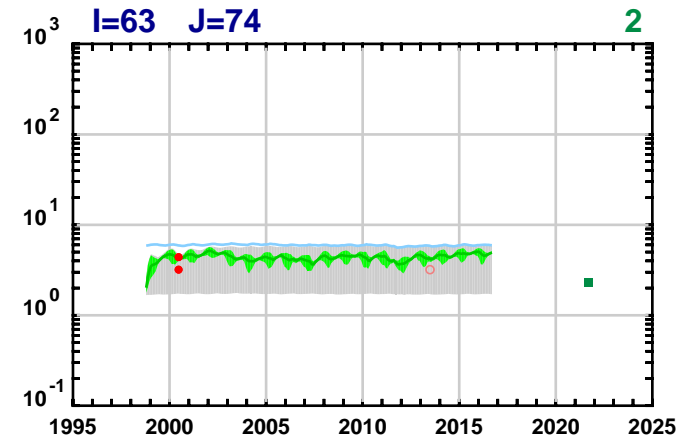
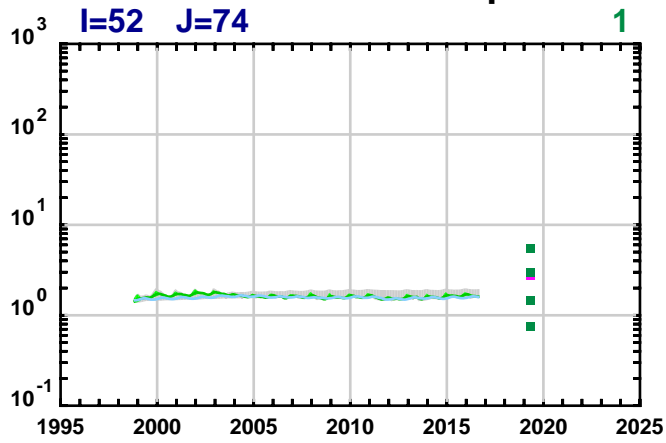
RUN18\_S3

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin ppt



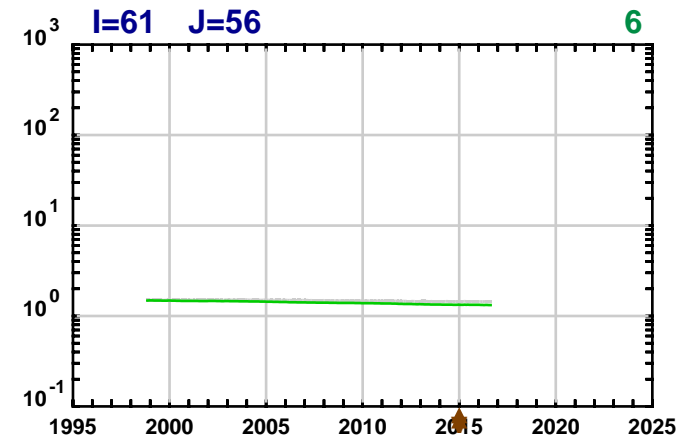
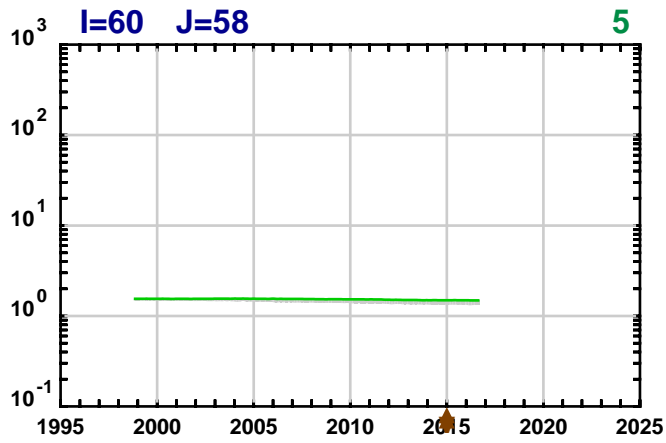
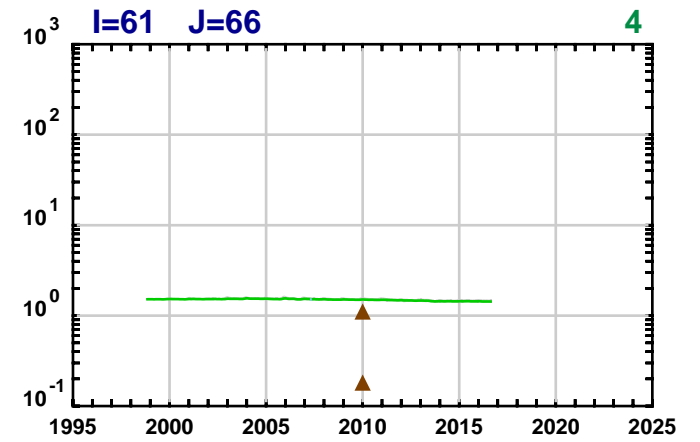
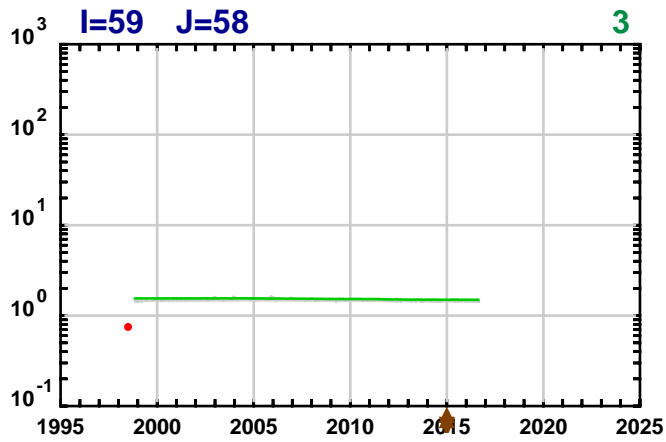
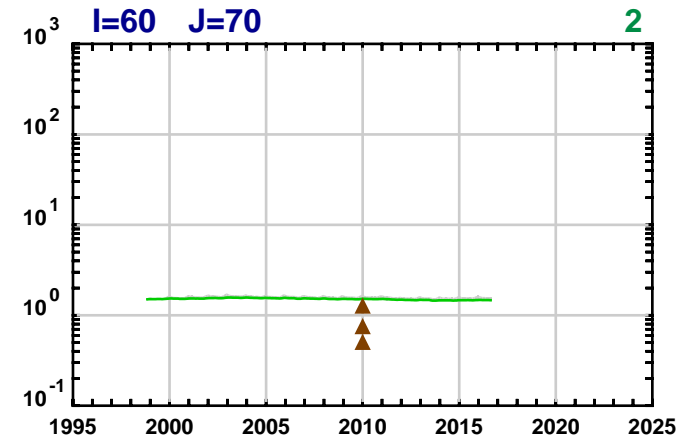
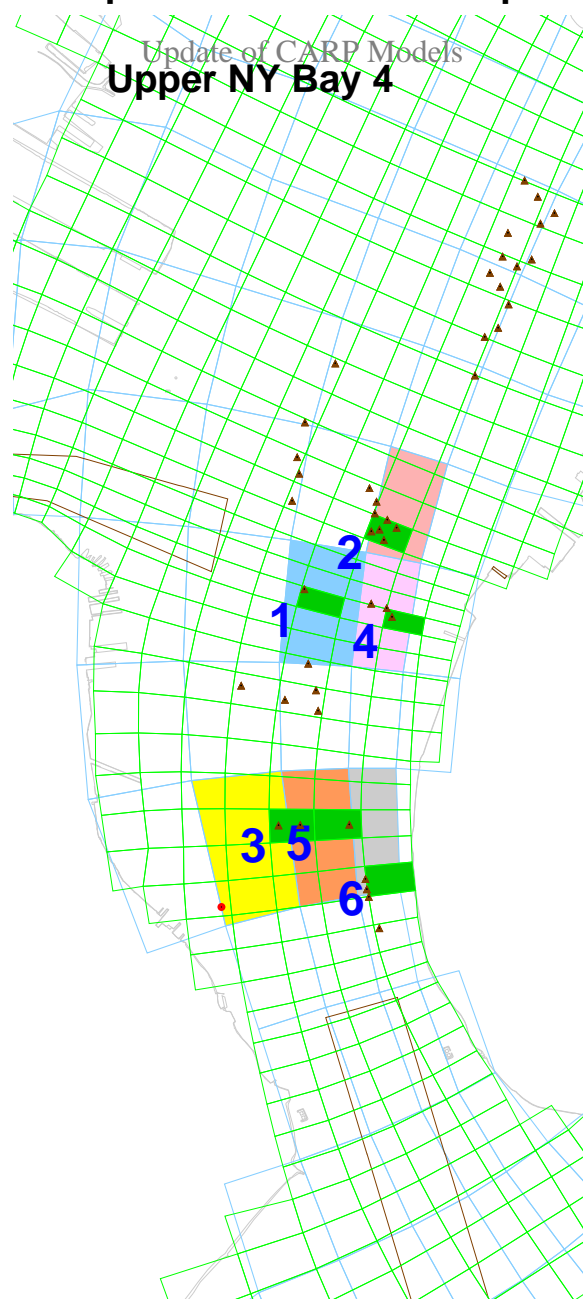
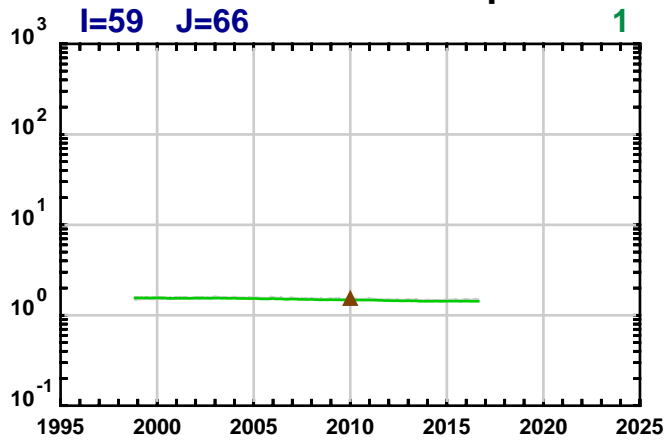
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin ppt



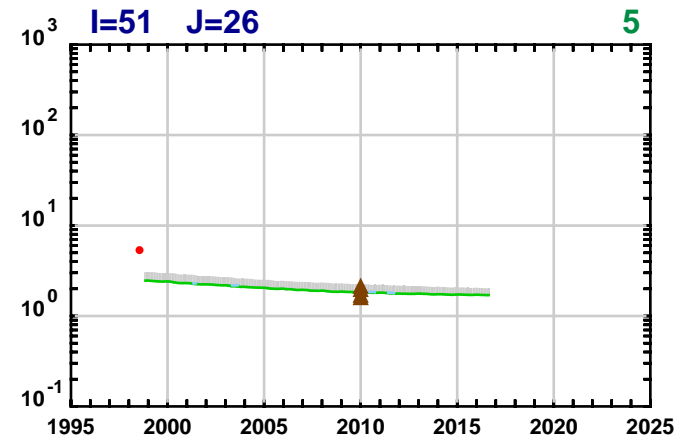
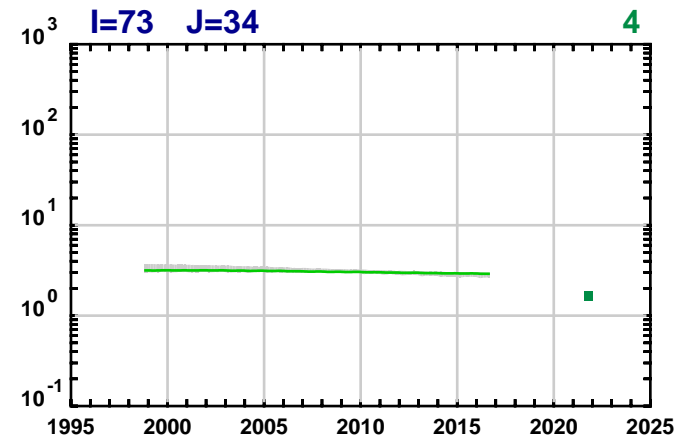
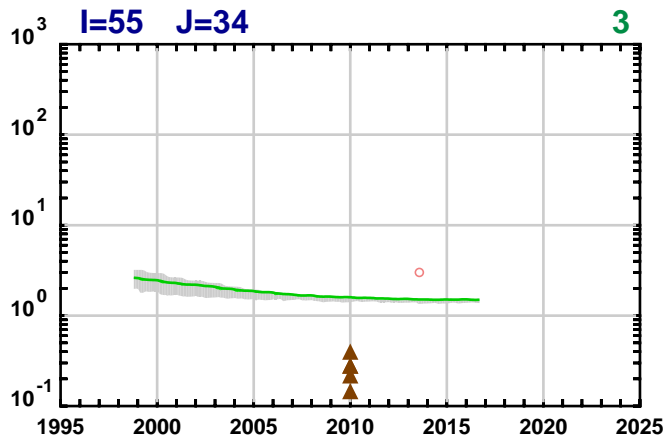
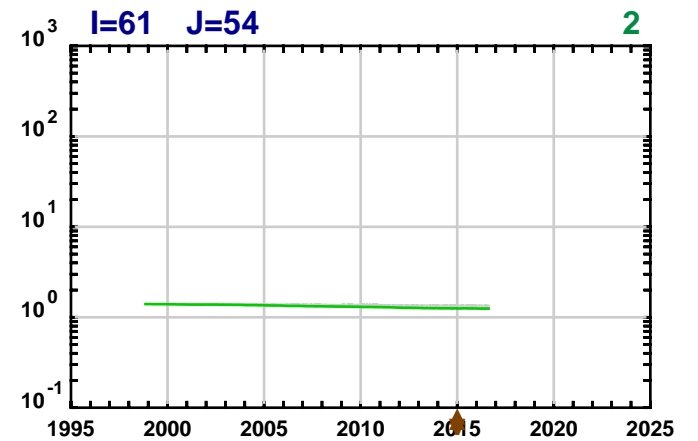
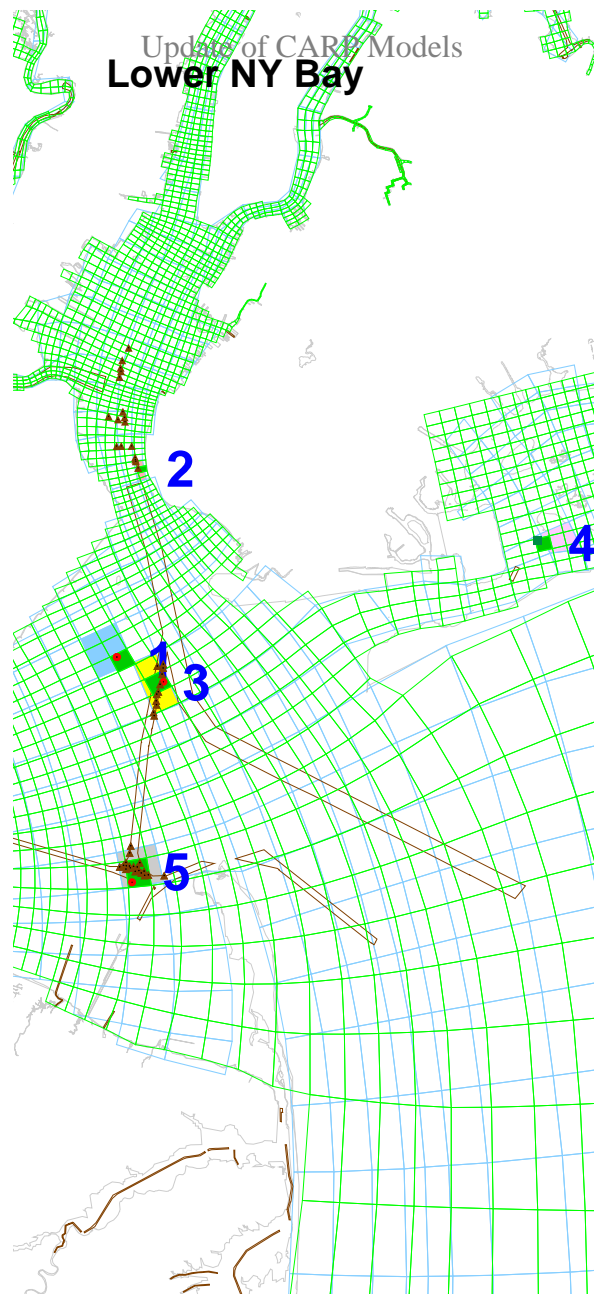
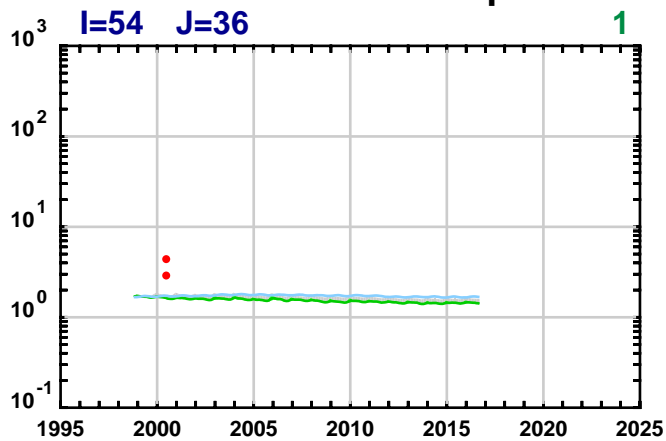
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin ppt

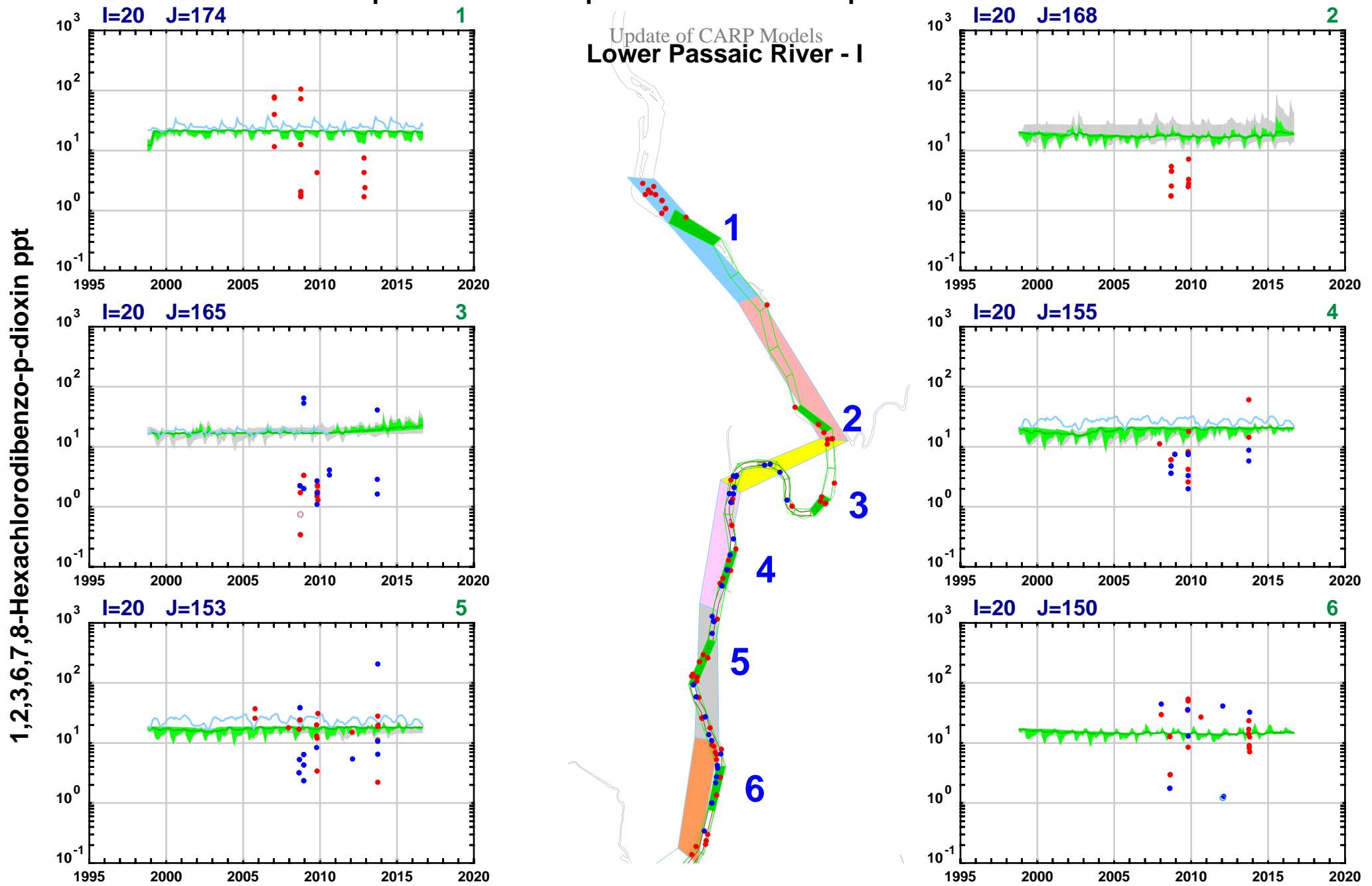


RUN18\_S3

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



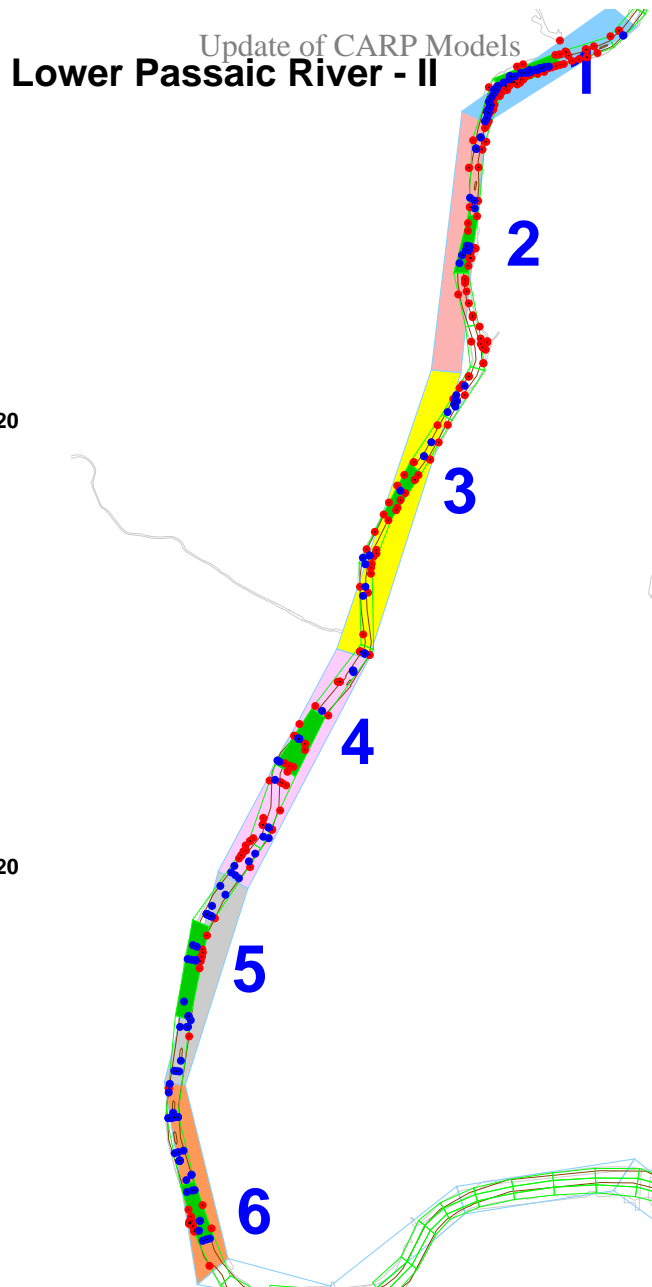
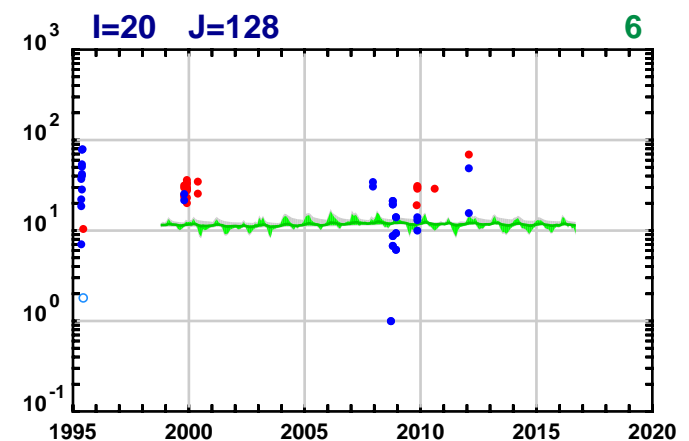
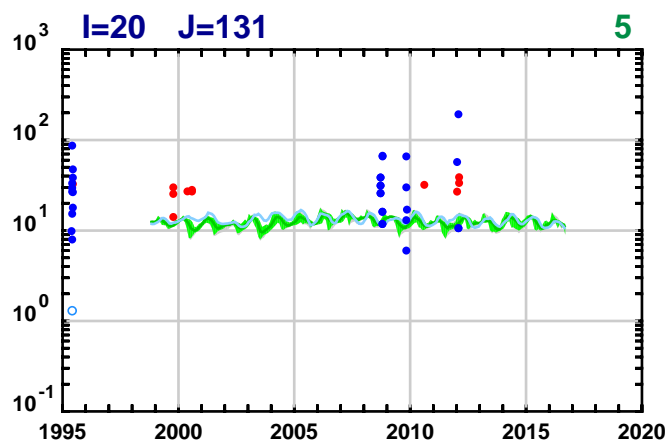
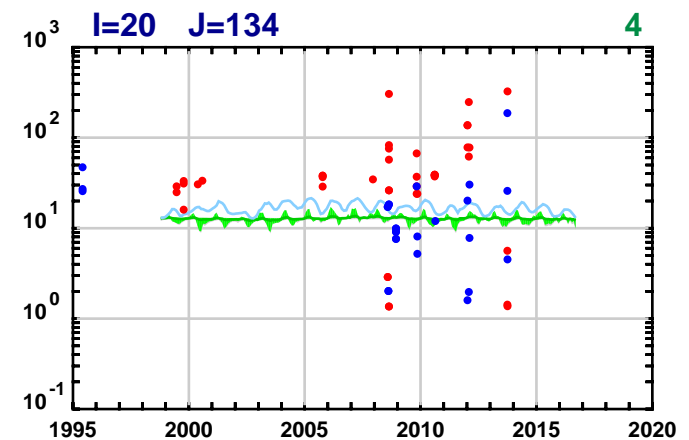
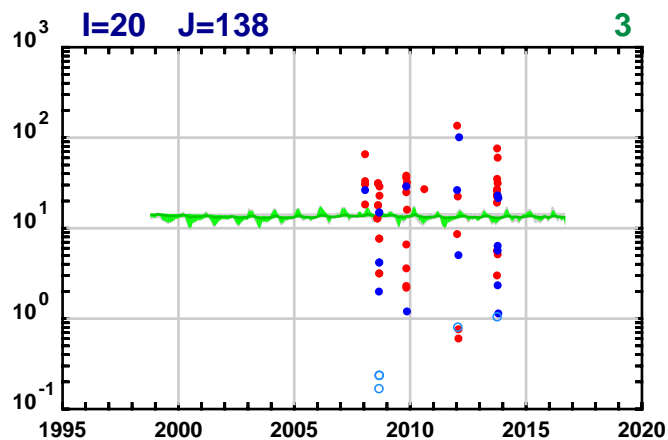
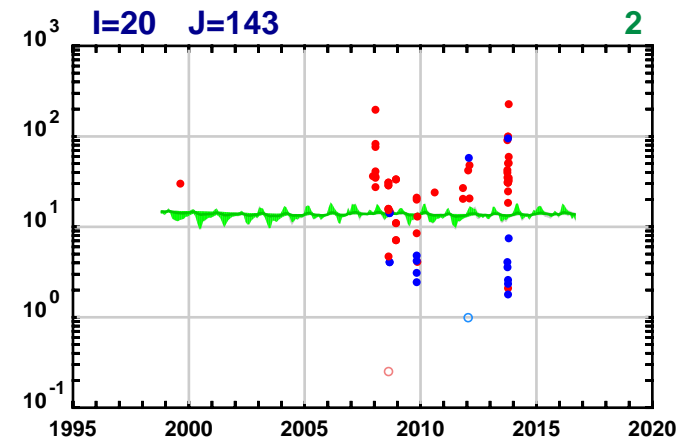
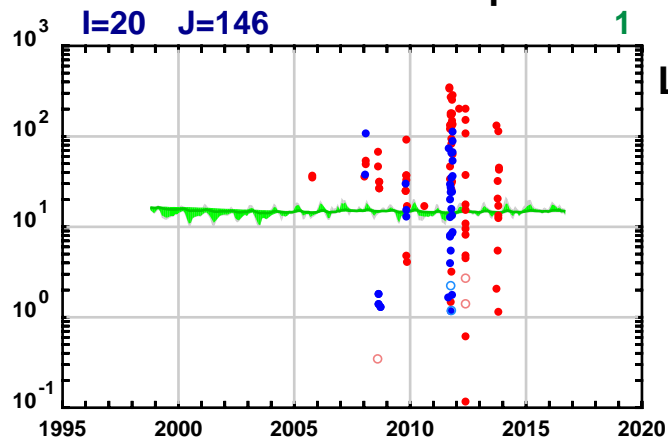
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin ppt



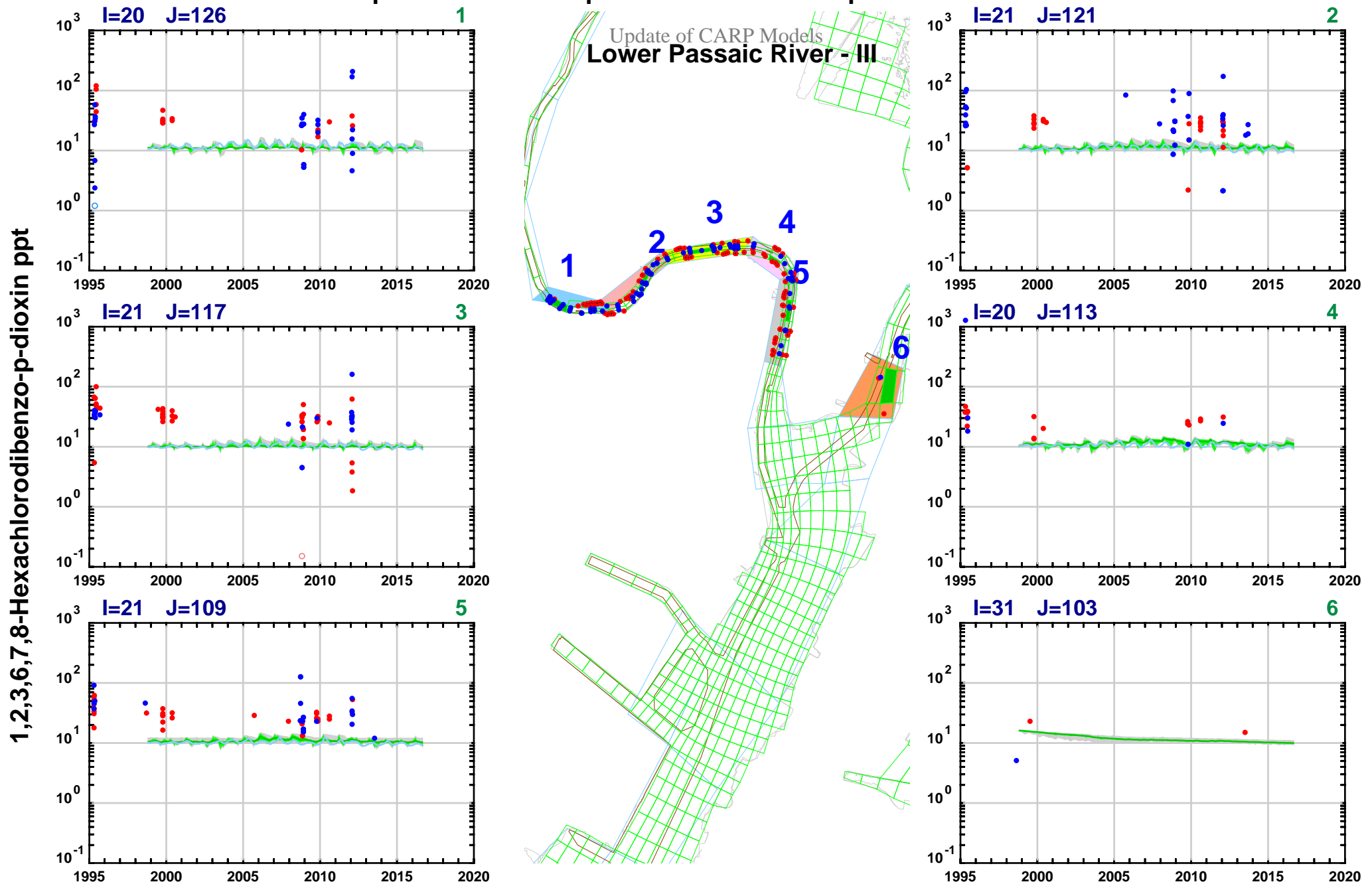
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin ppt

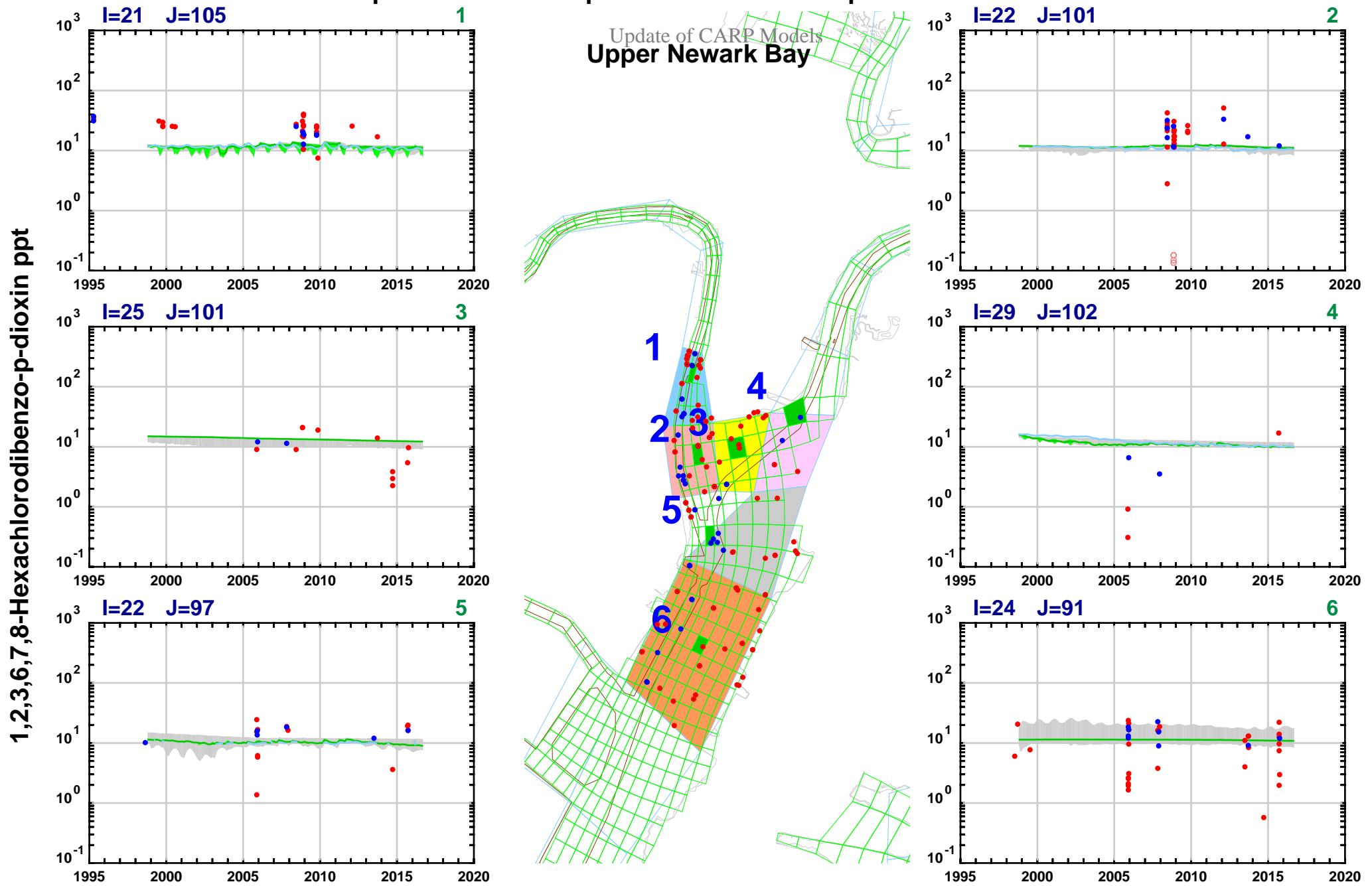
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

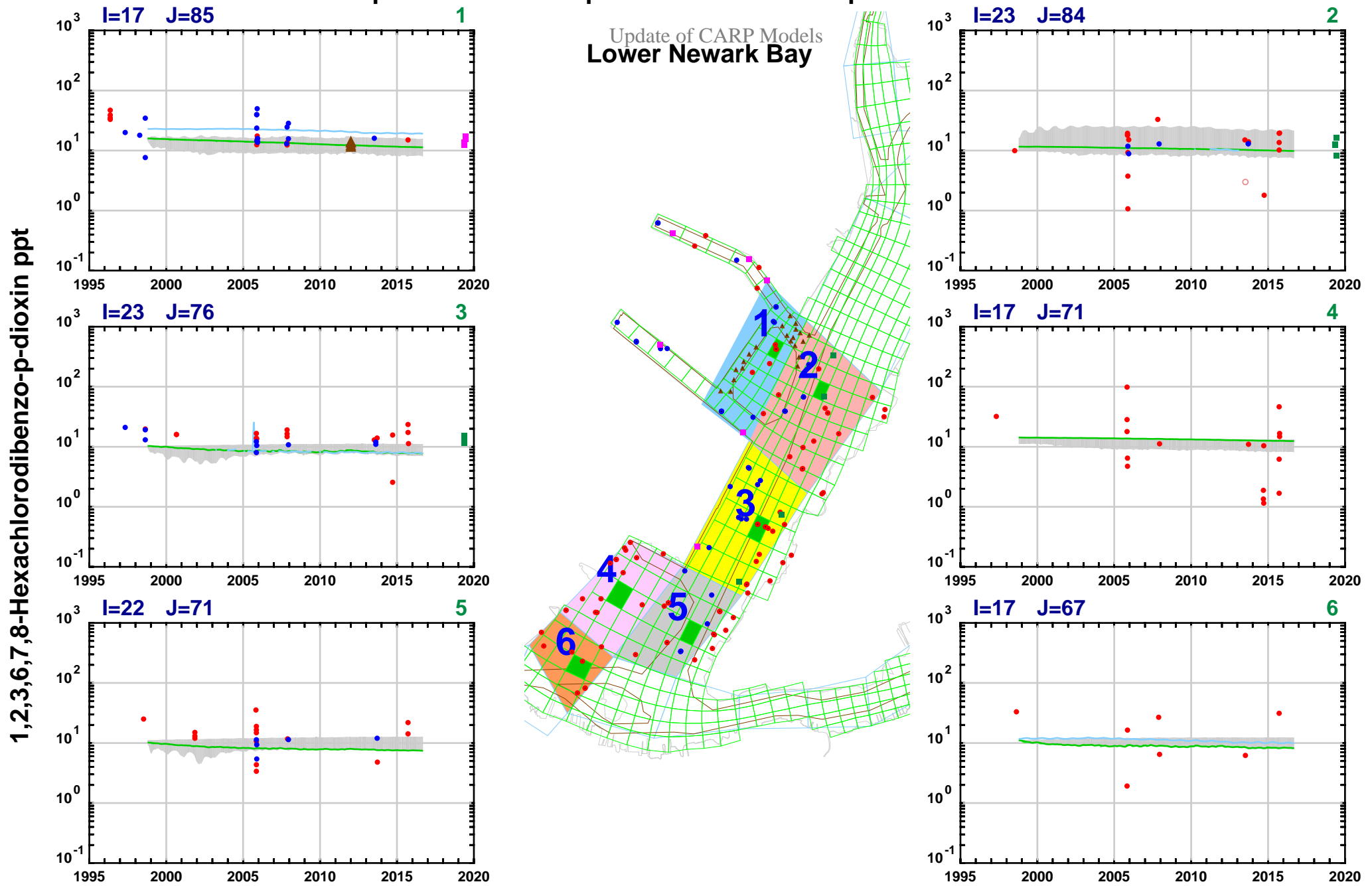


RUN18\_S3

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin ppt

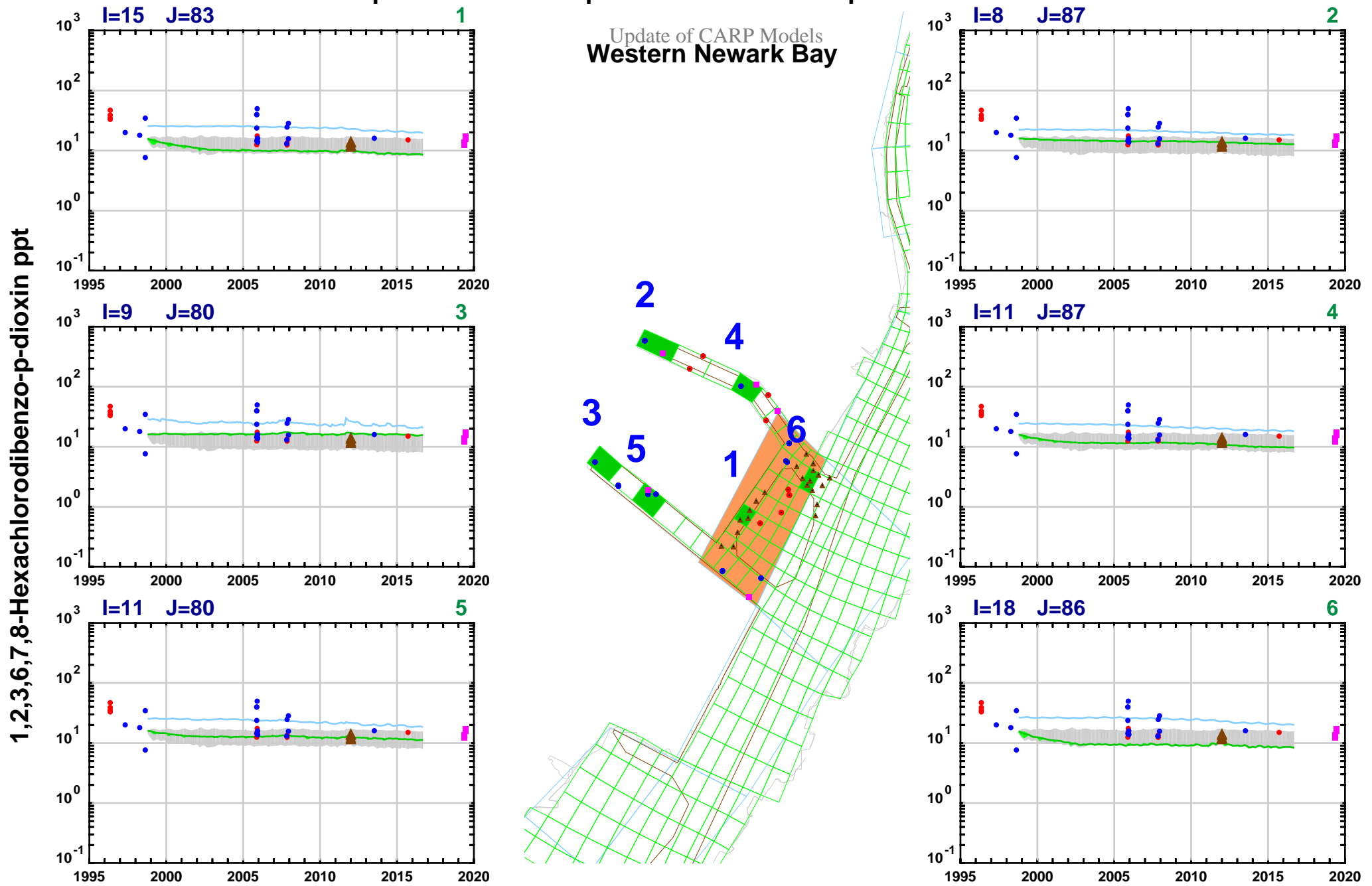
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay



1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin ppt

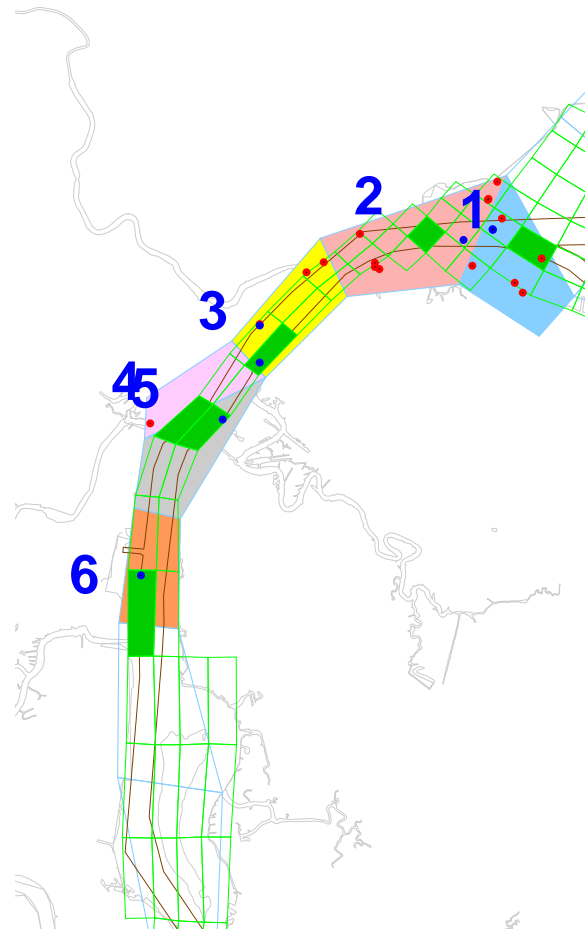
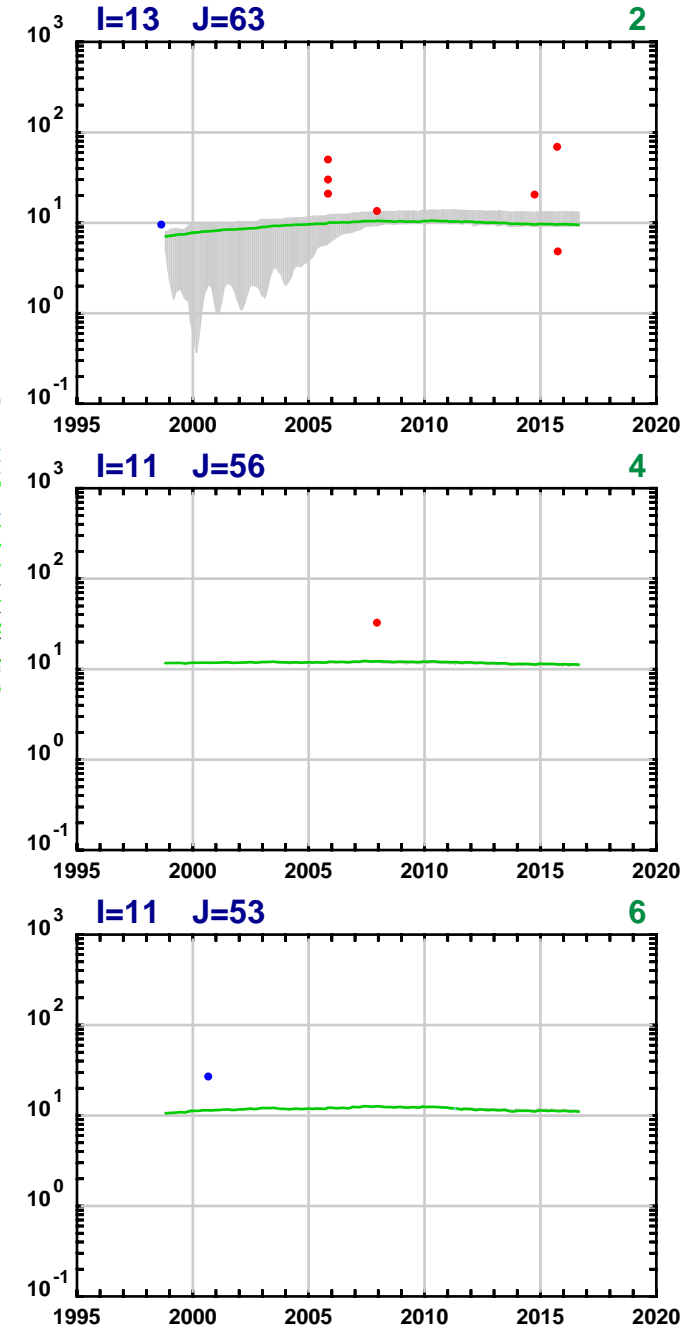
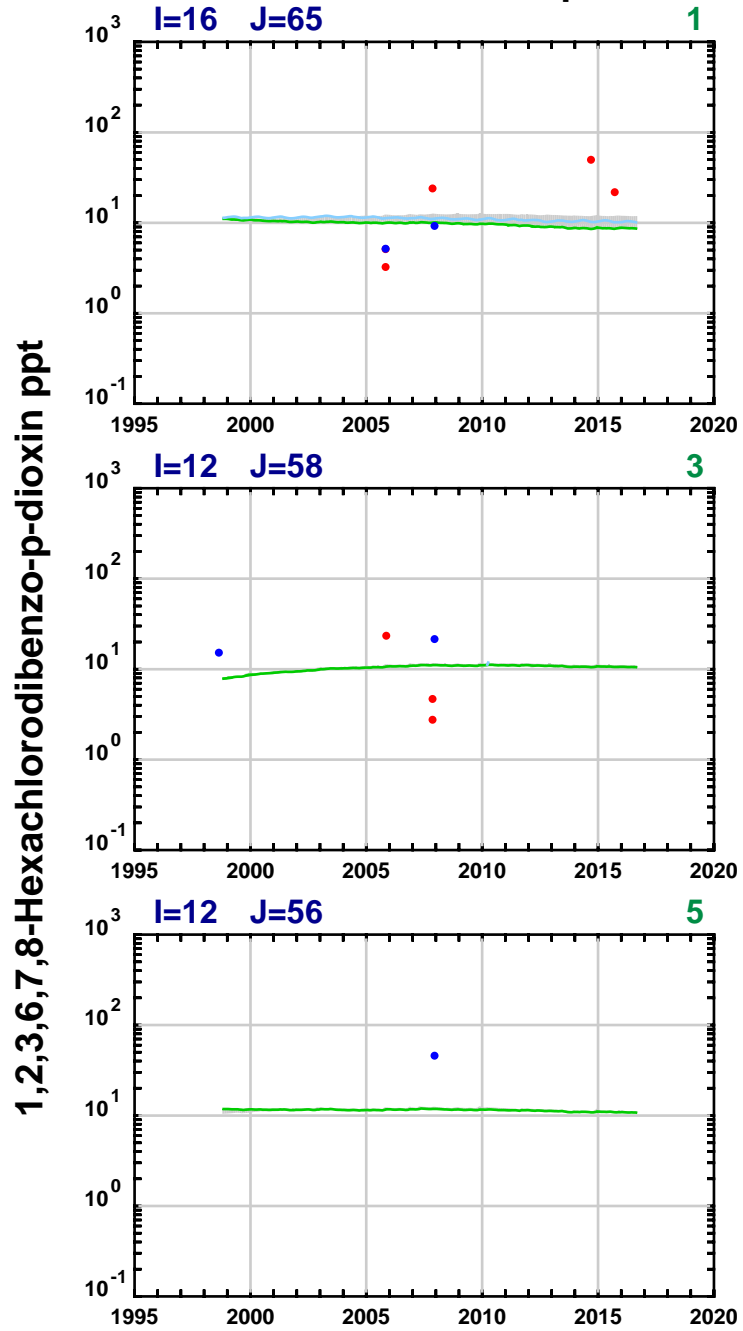
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1



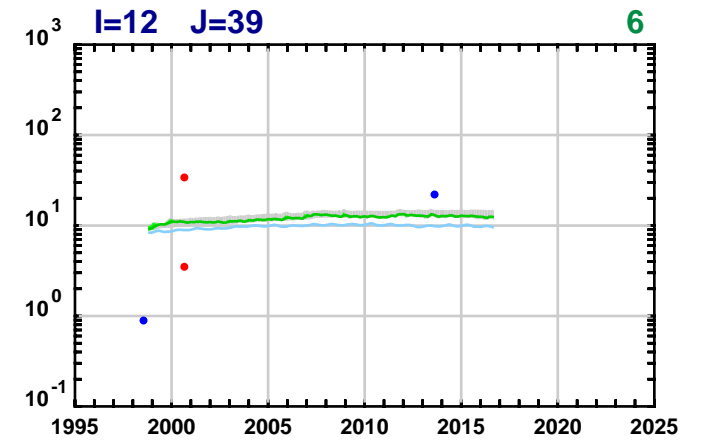
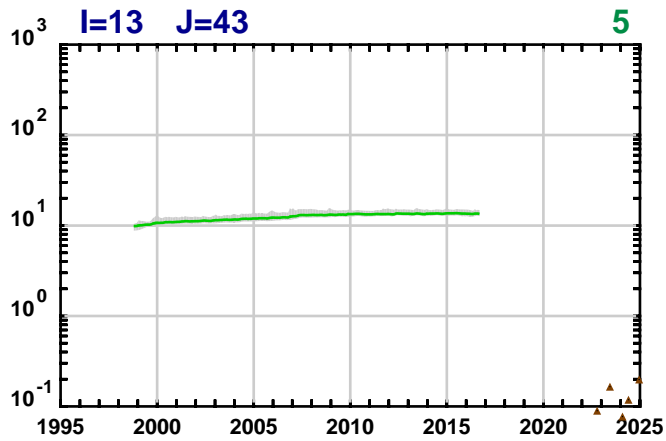
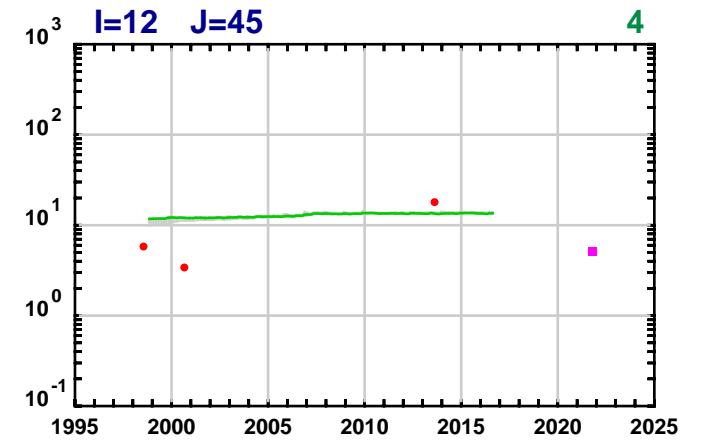
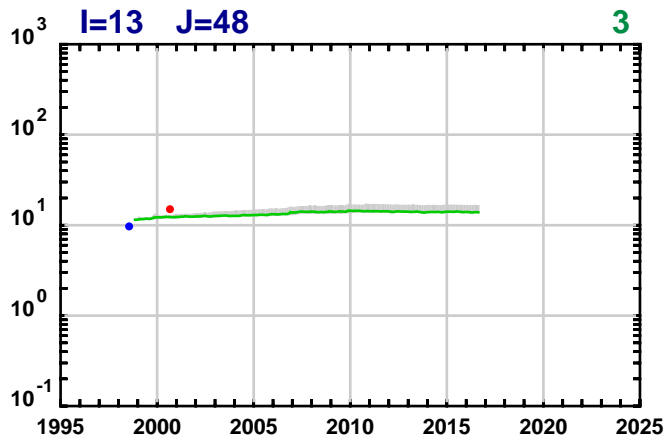
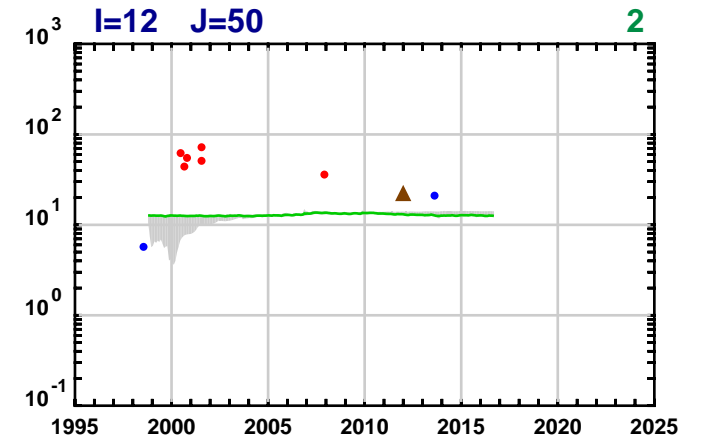
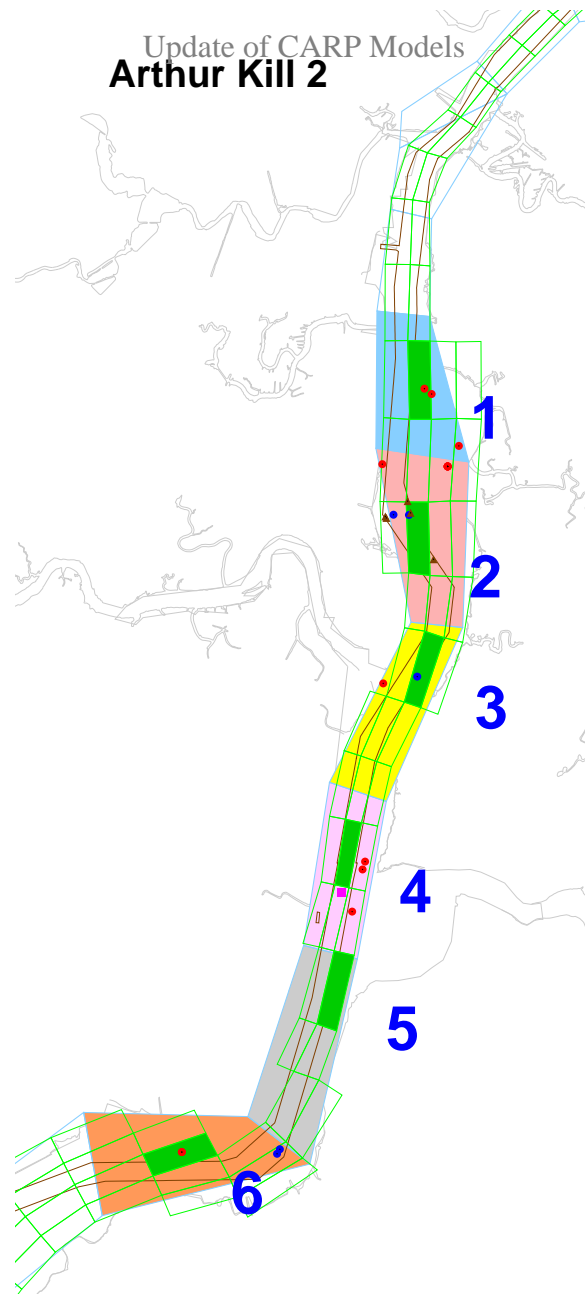
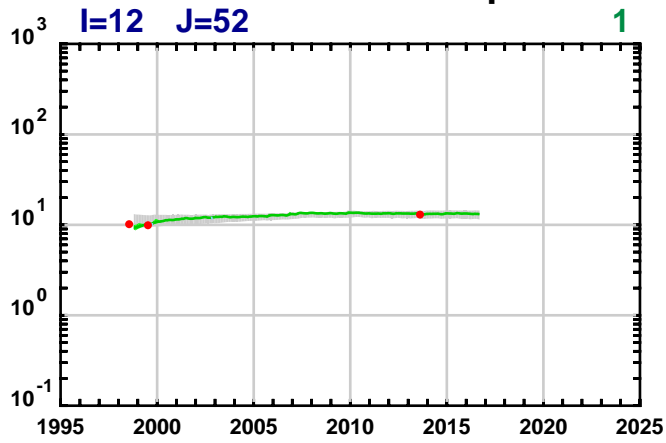
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin ppt

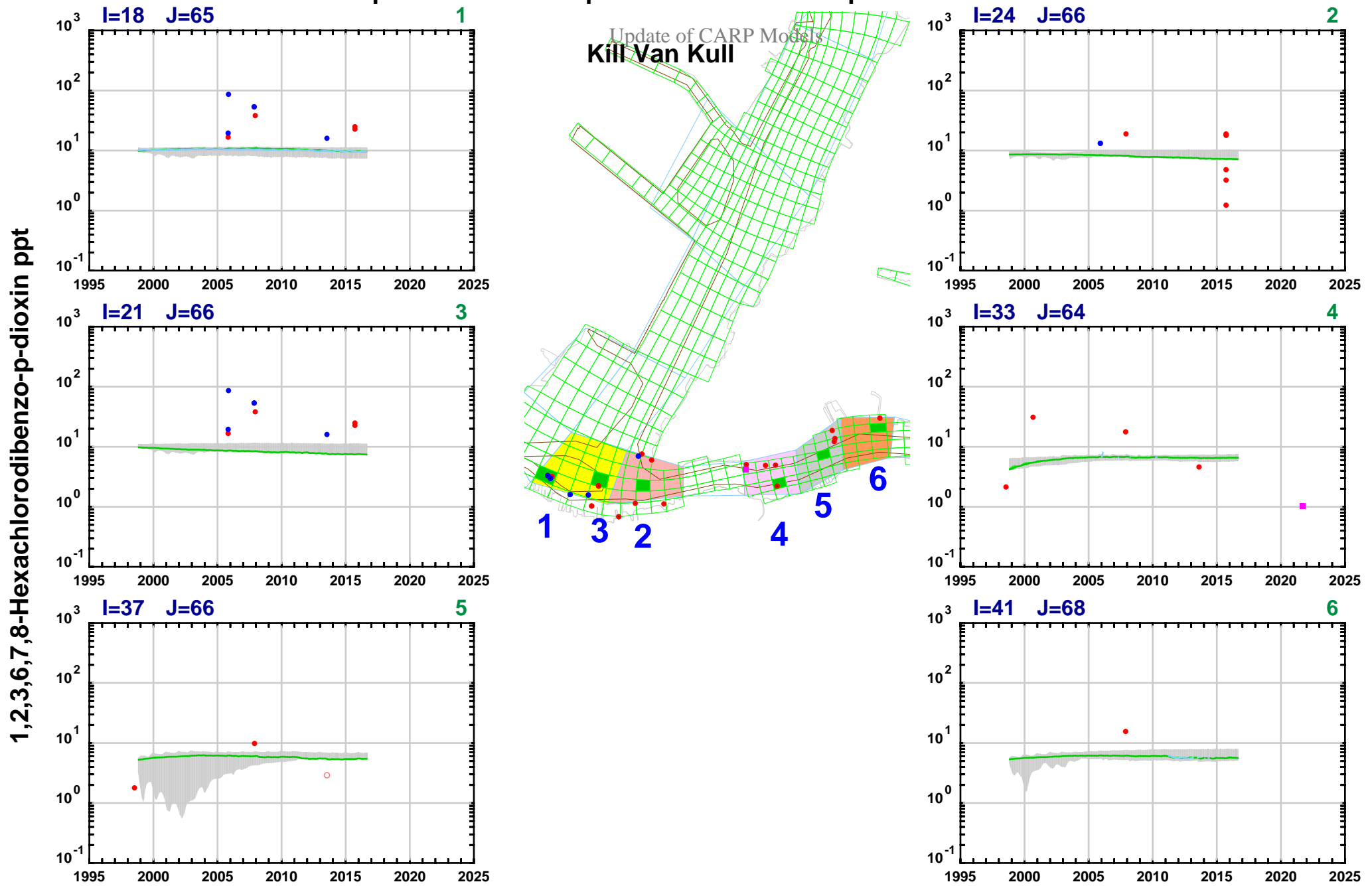


RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

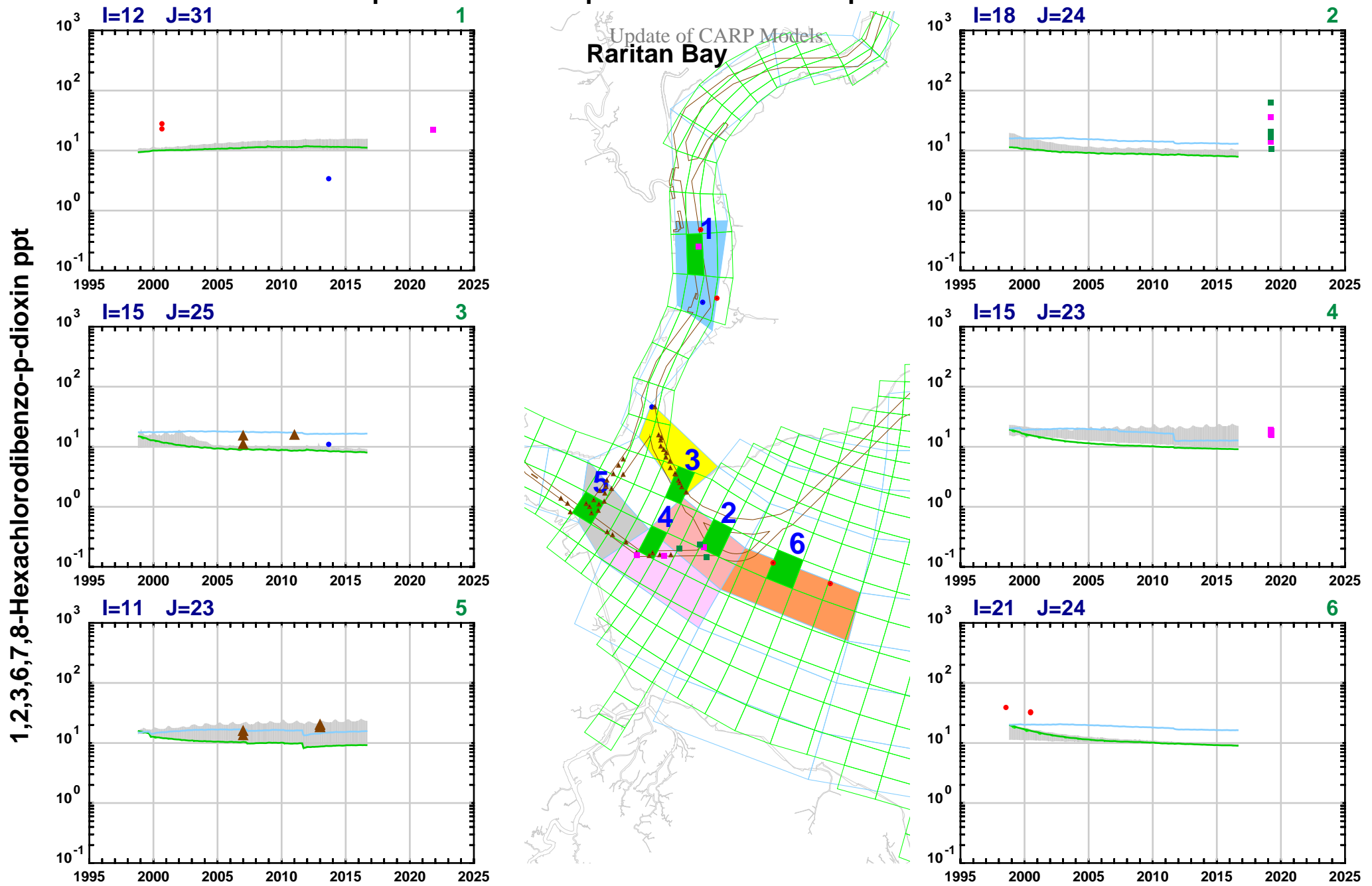


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



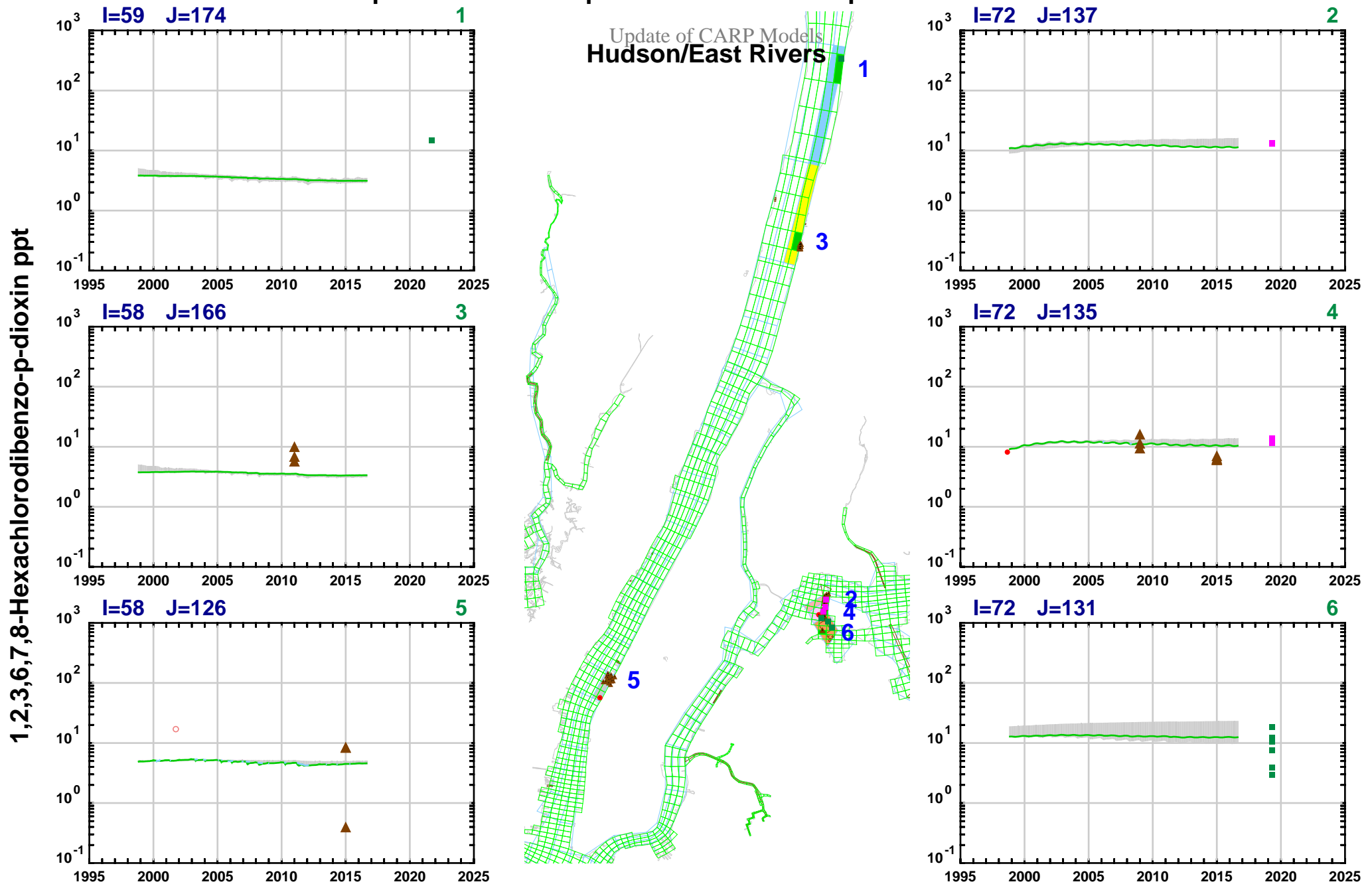
RUN18\_S3

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

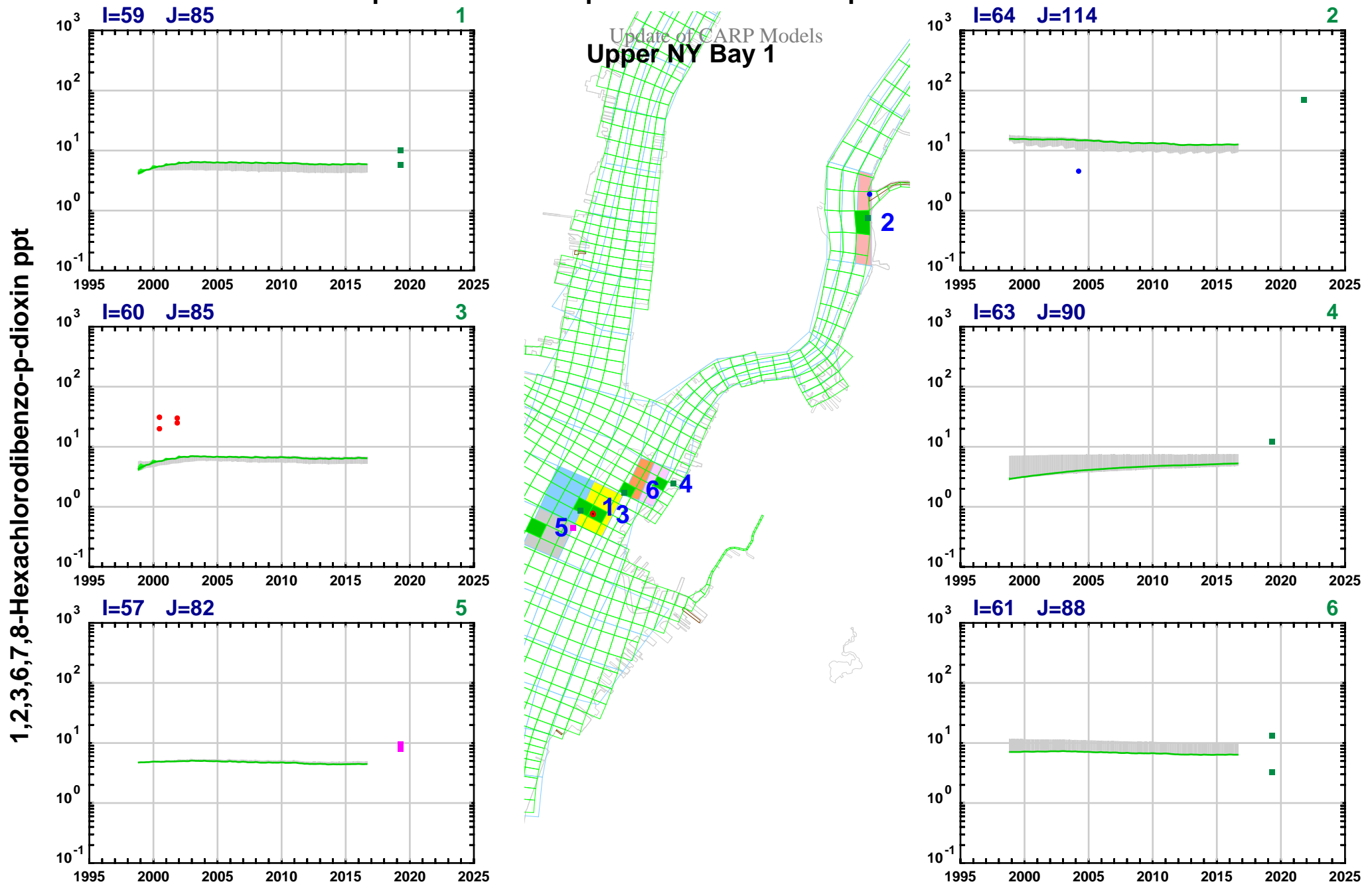


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data**    **● Off-channel data**    **▲ Dredge data**  
**■ CARP2 In-channel**    **■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment



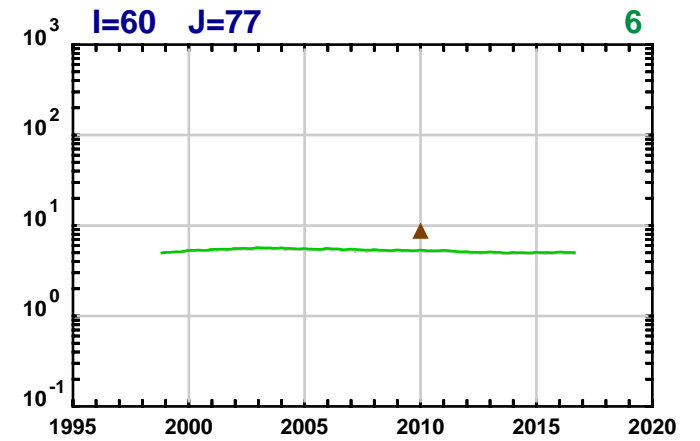
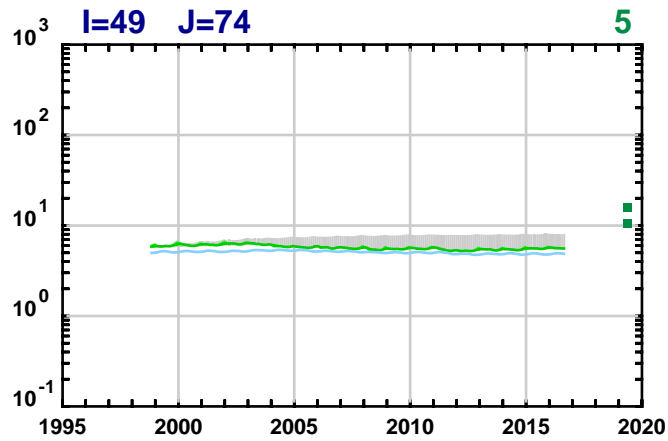
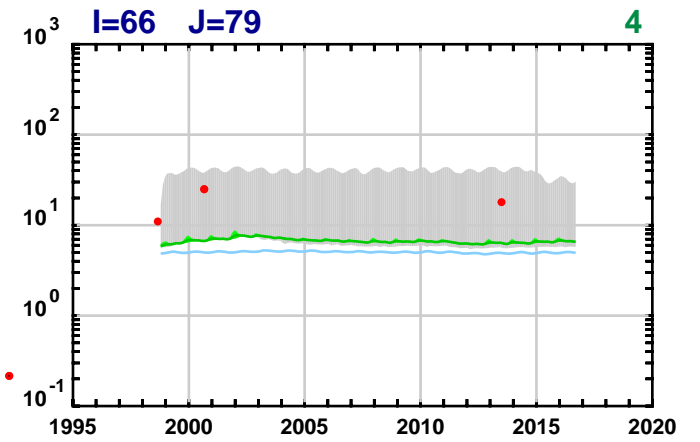
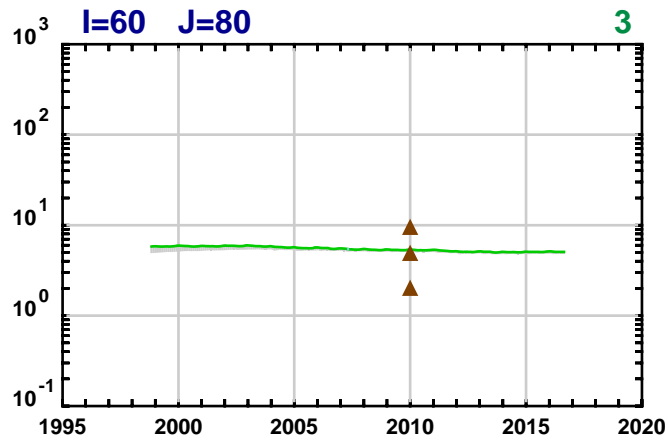
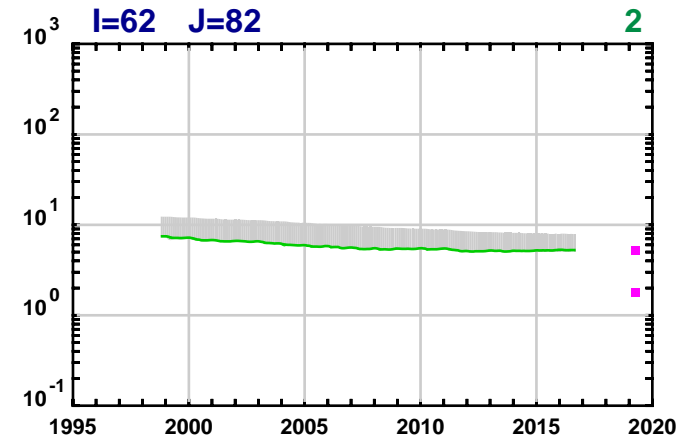
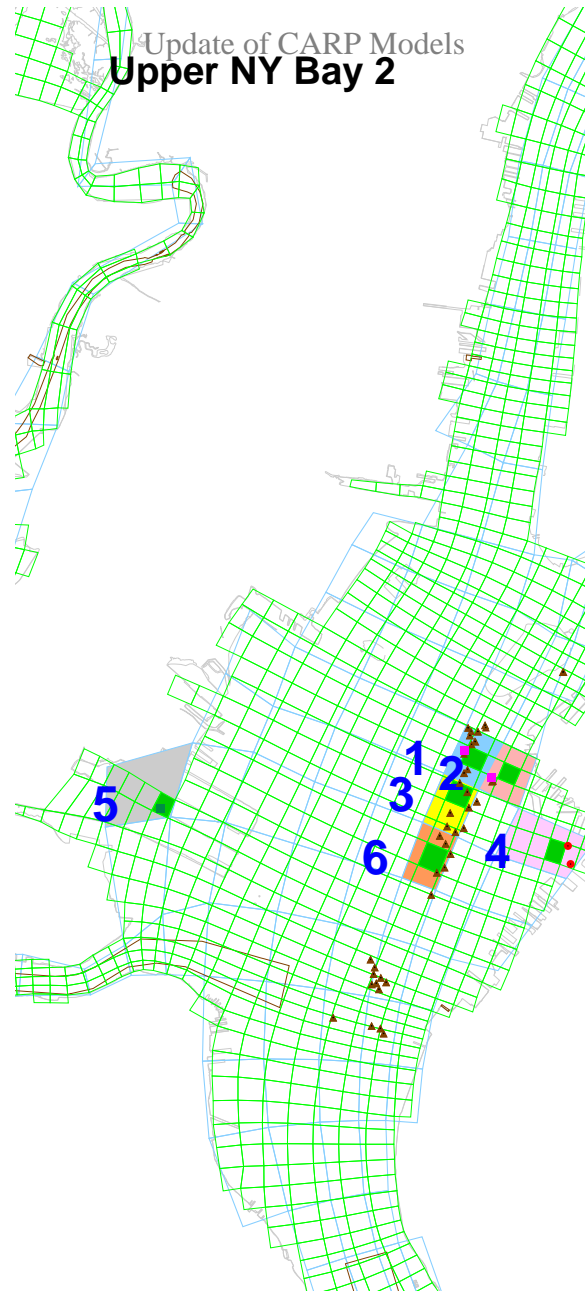
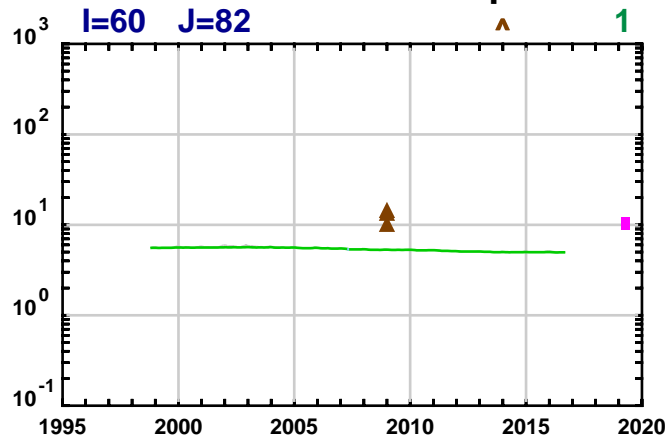
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin ppt



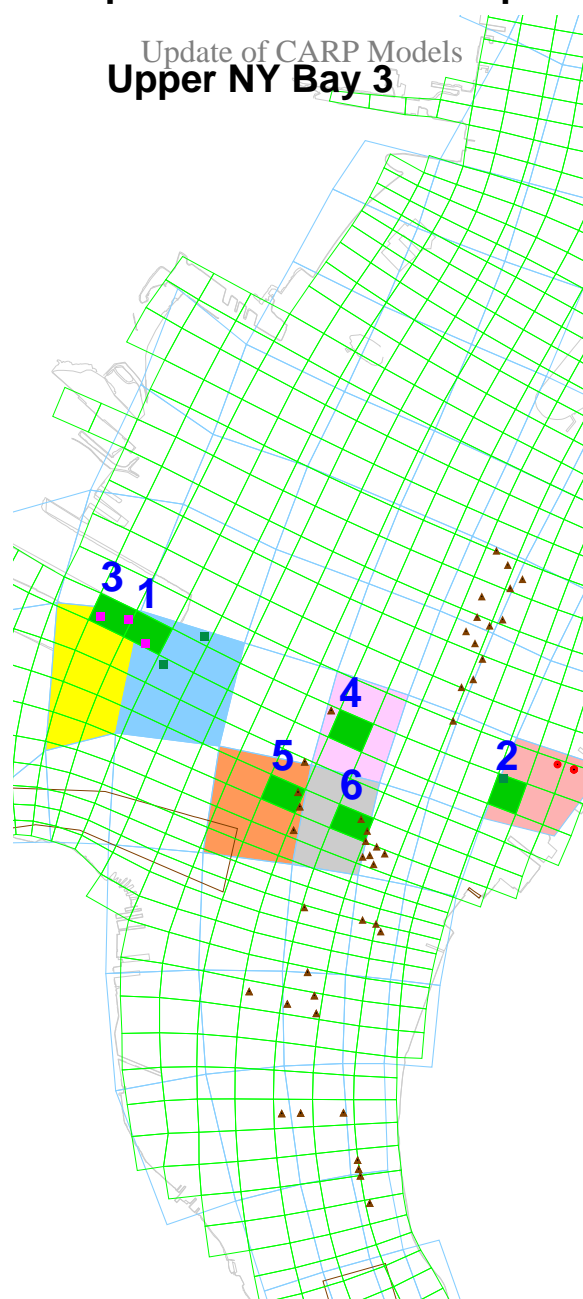
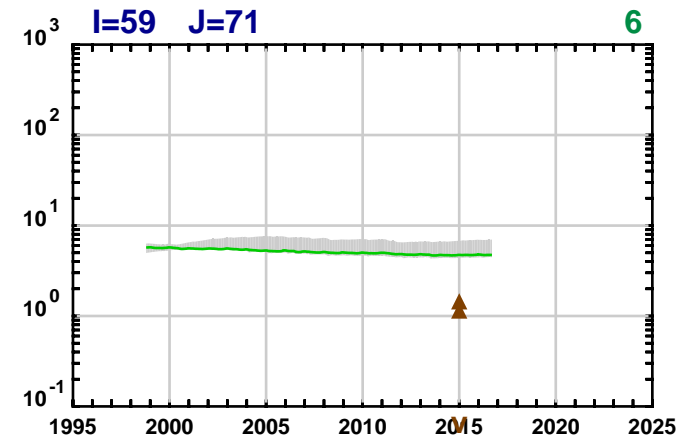
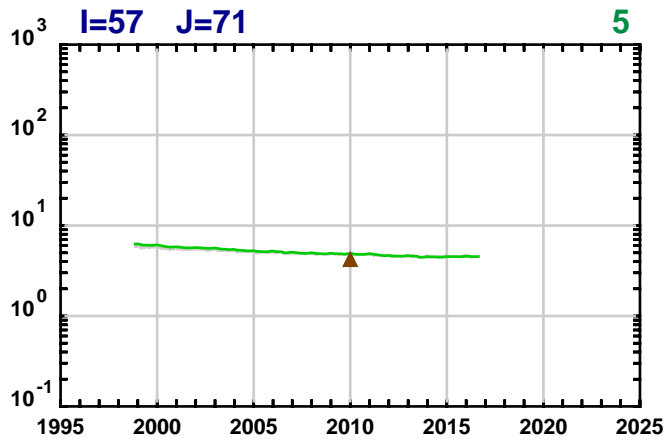
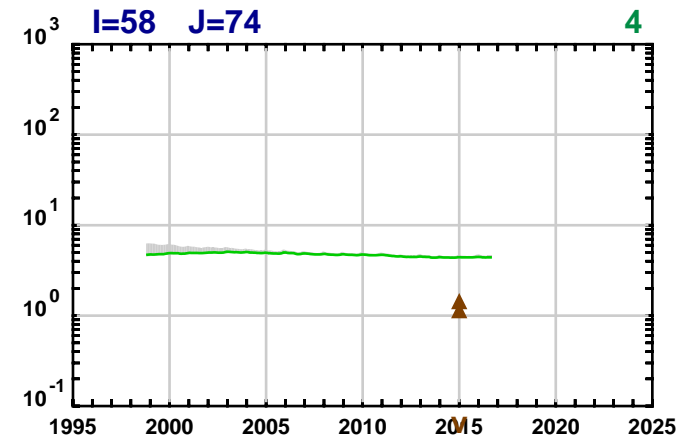
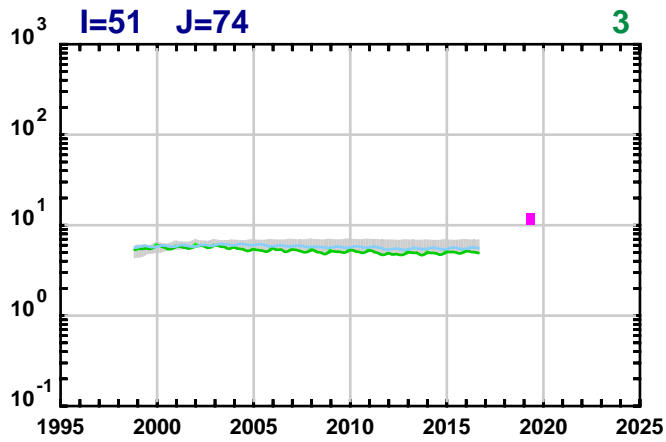
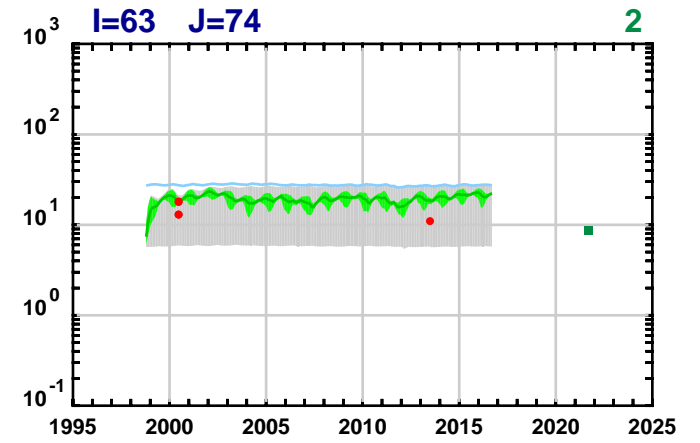
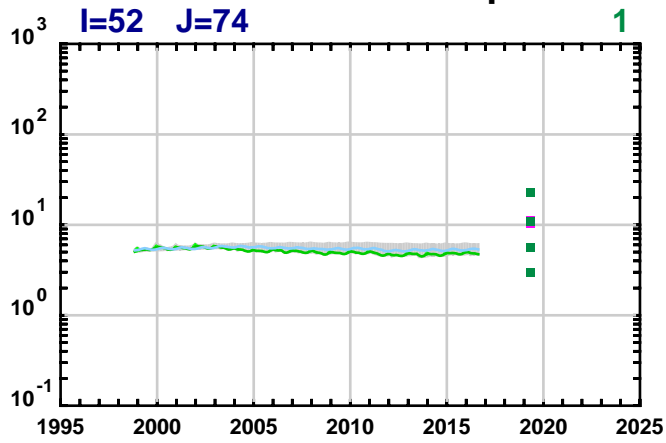
RUN18\_S3

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin ppt



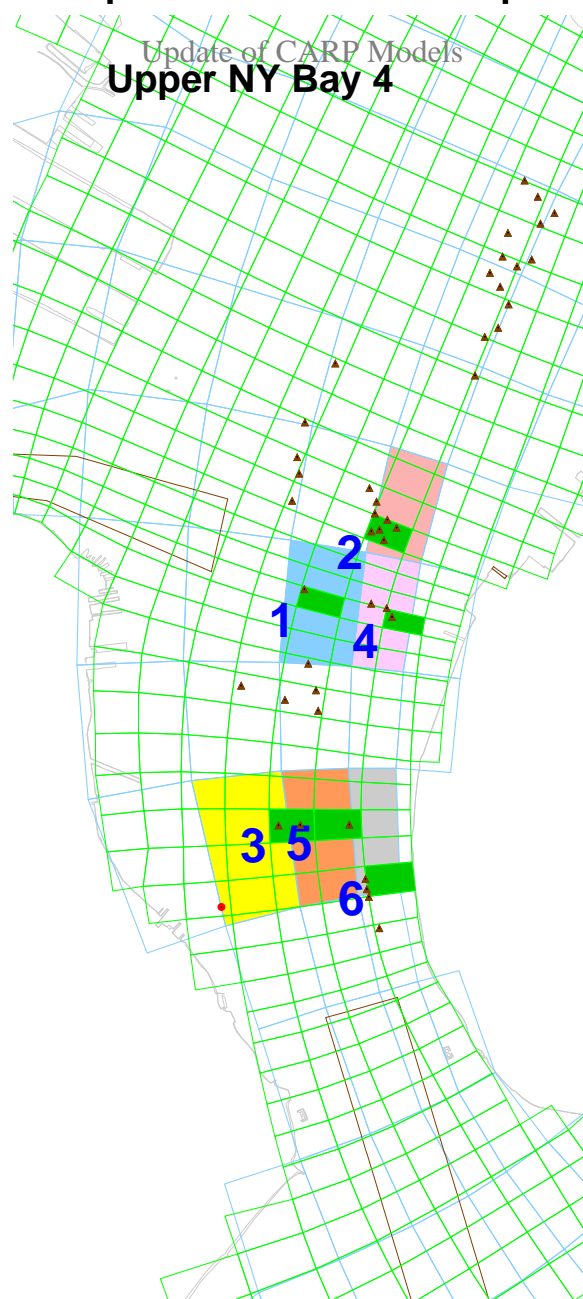
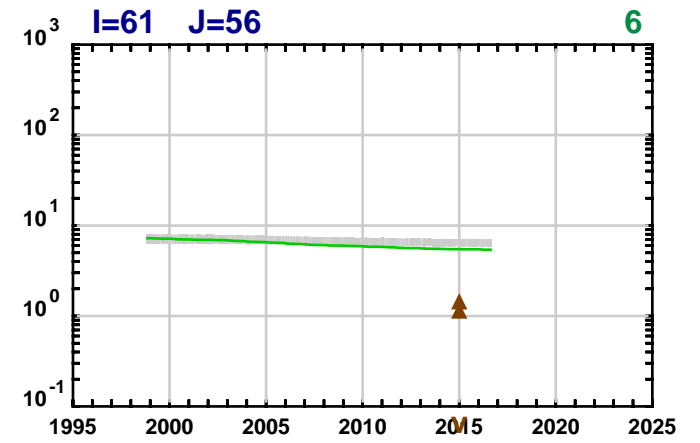
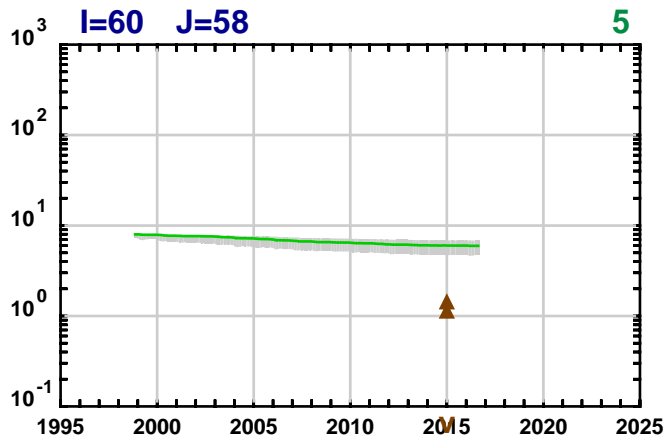
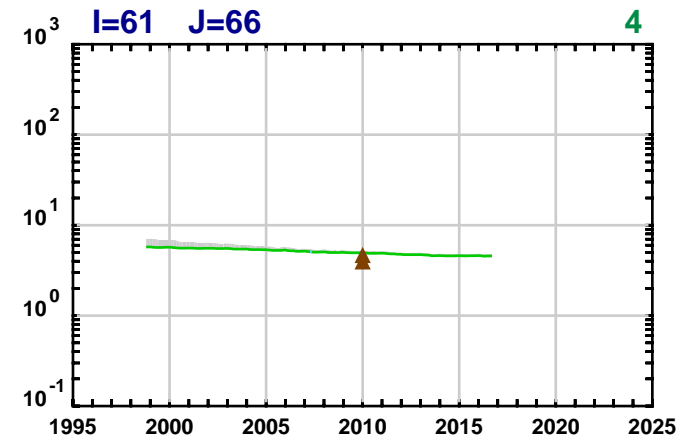
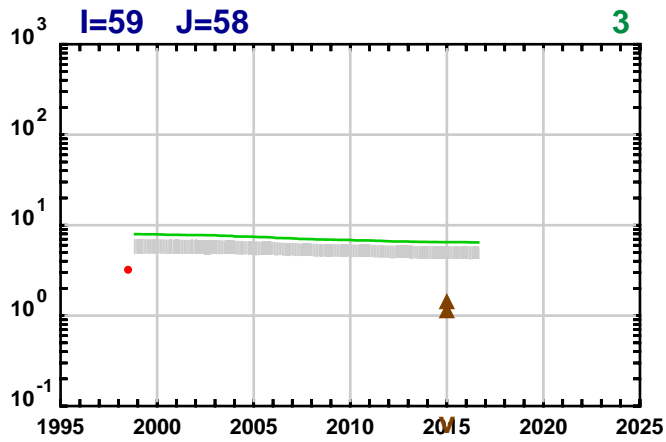
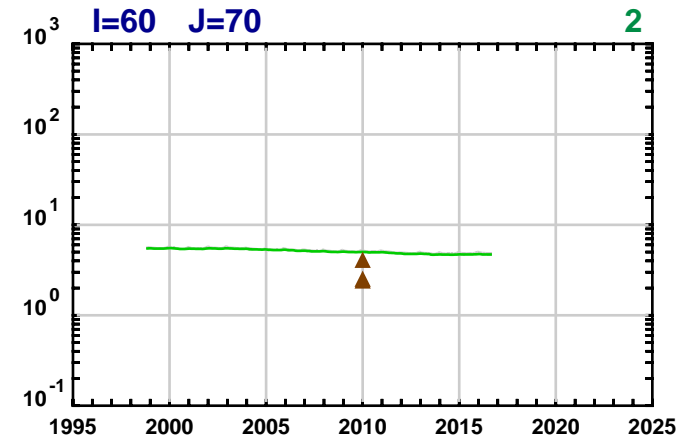
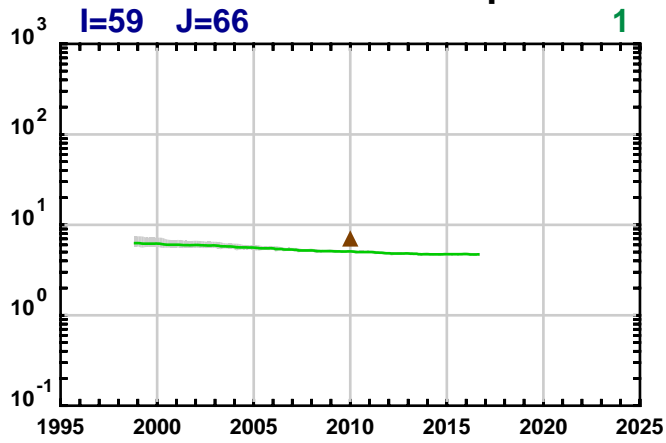
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin ppt



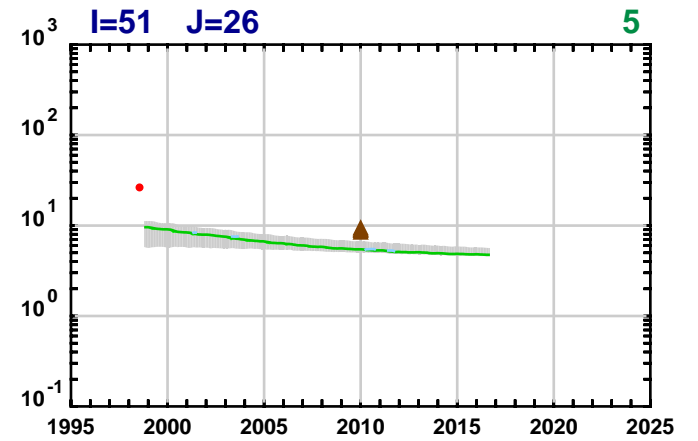
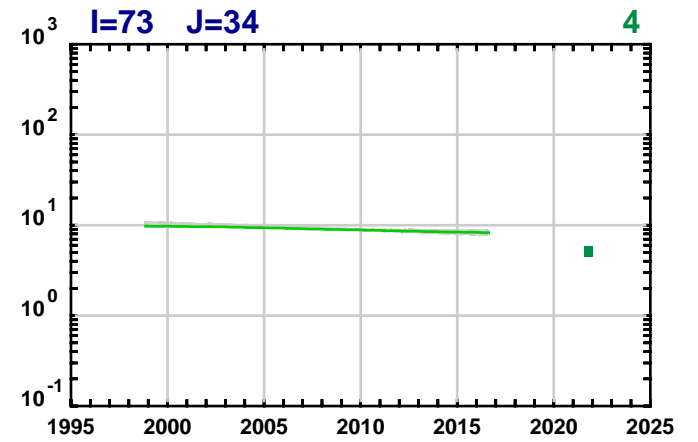
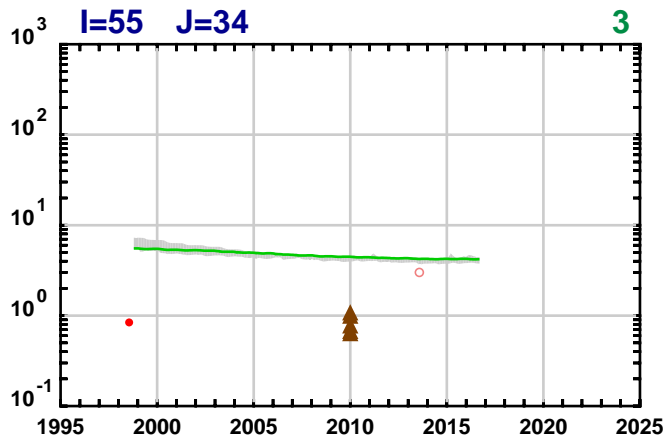
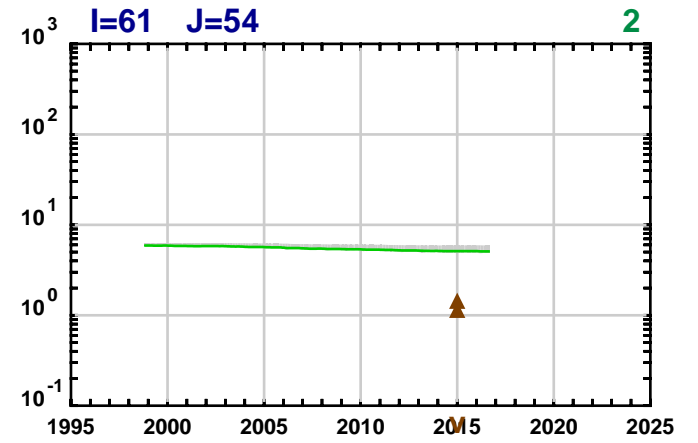
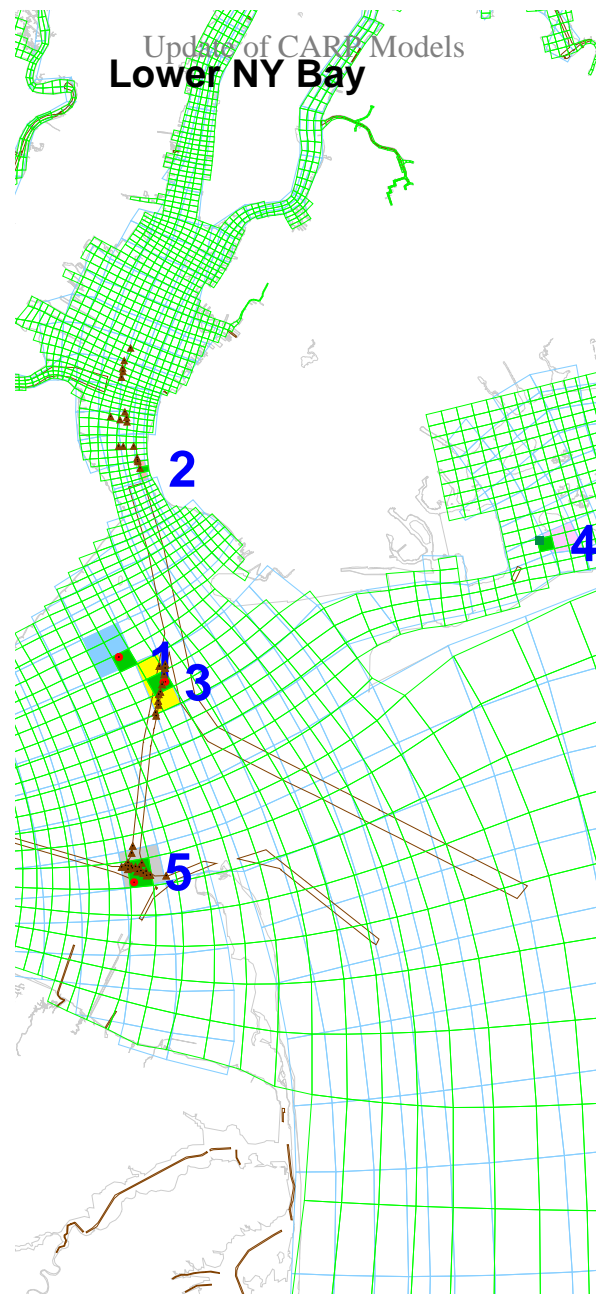
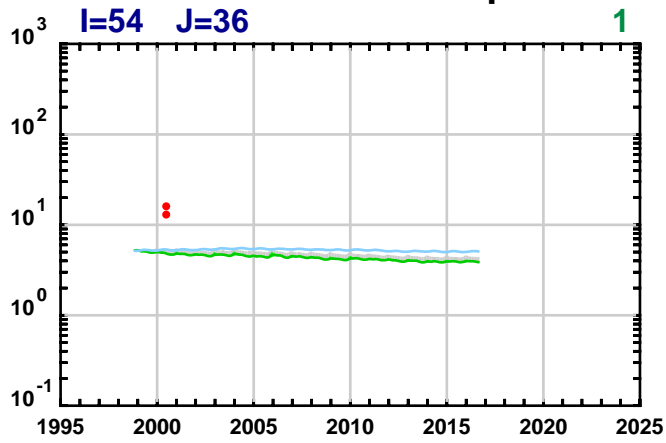
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin ppt



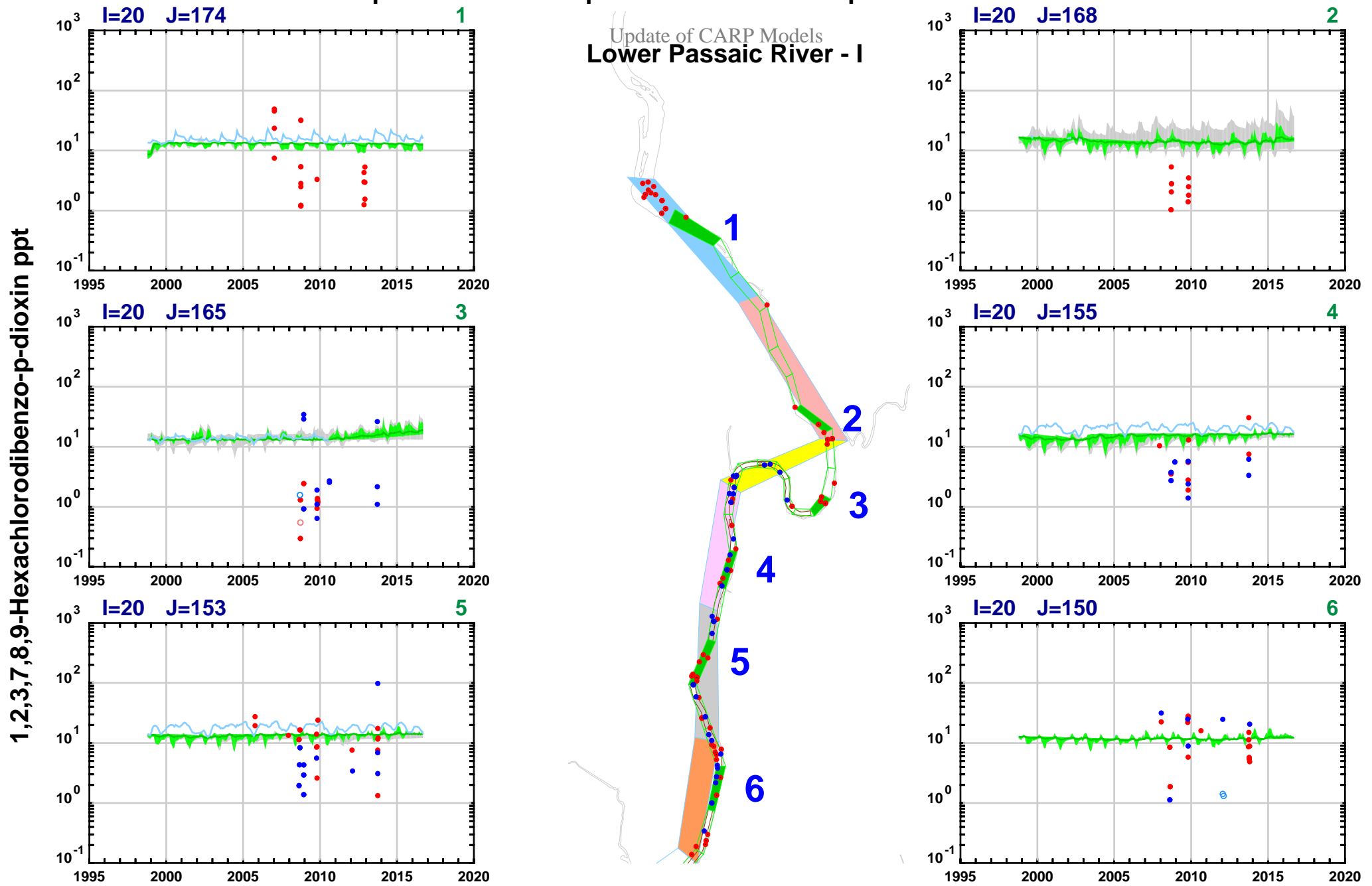
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



**RUN18\_S3**

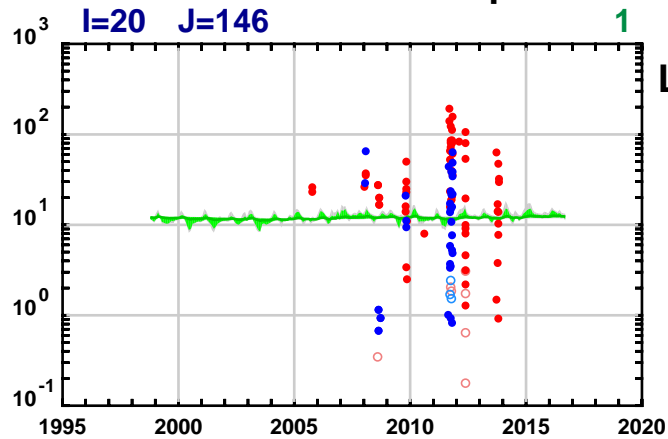
**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

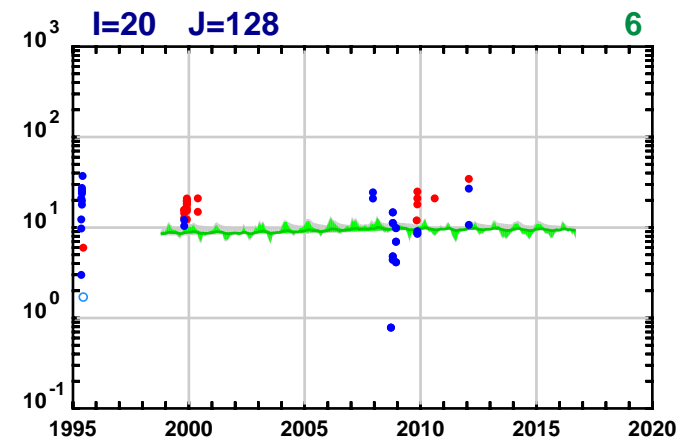
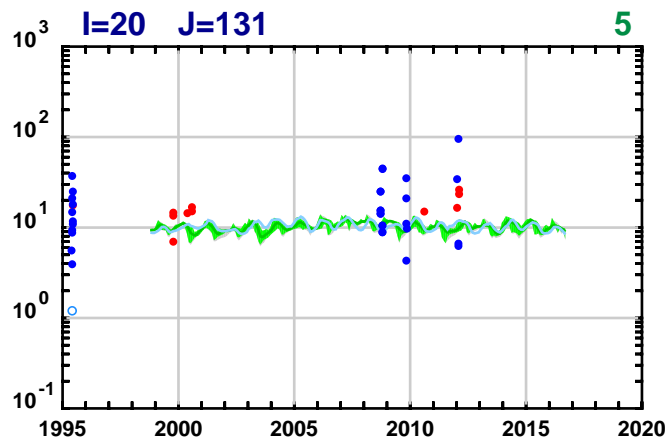
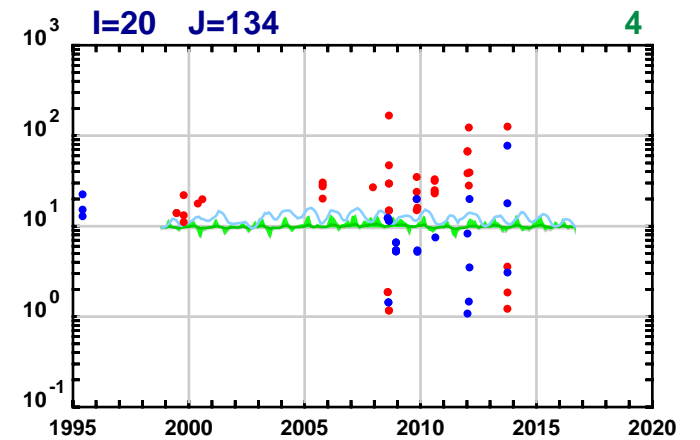
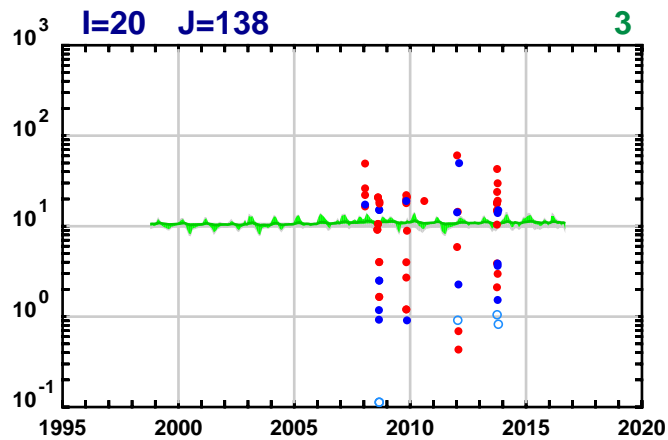
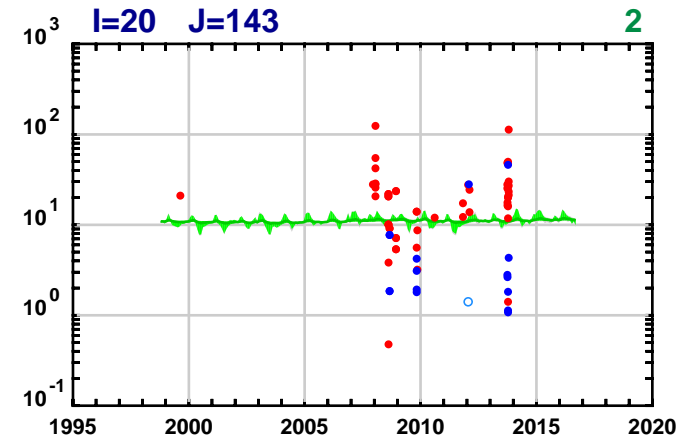
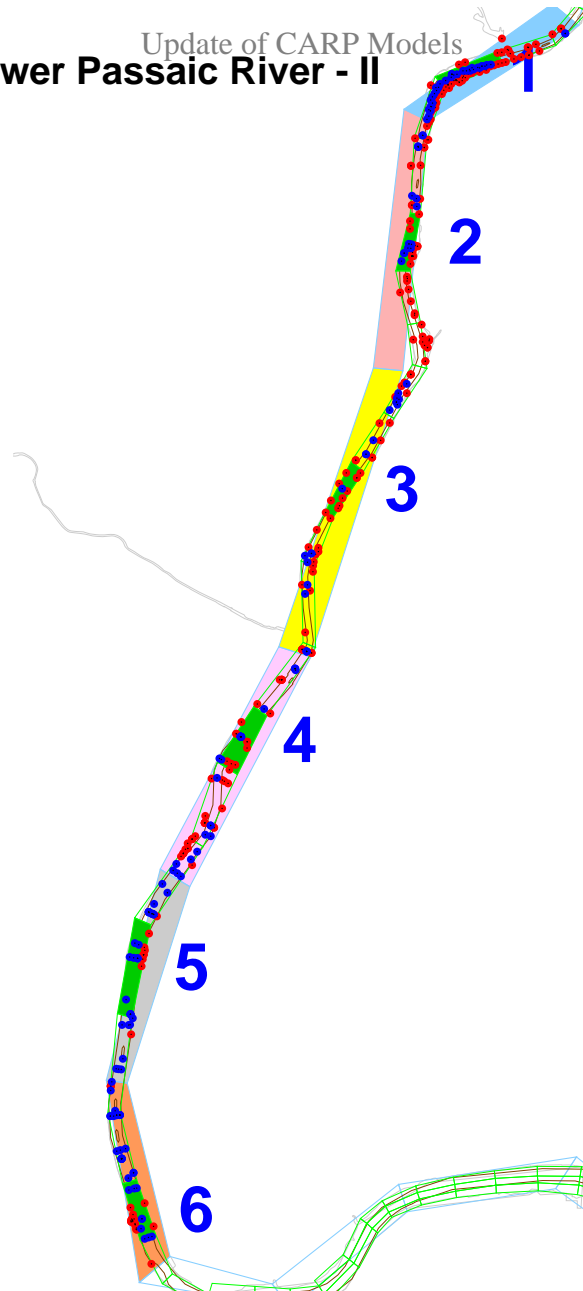


# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin ppt



Update of CARP Models  
Lower Passaic River - II

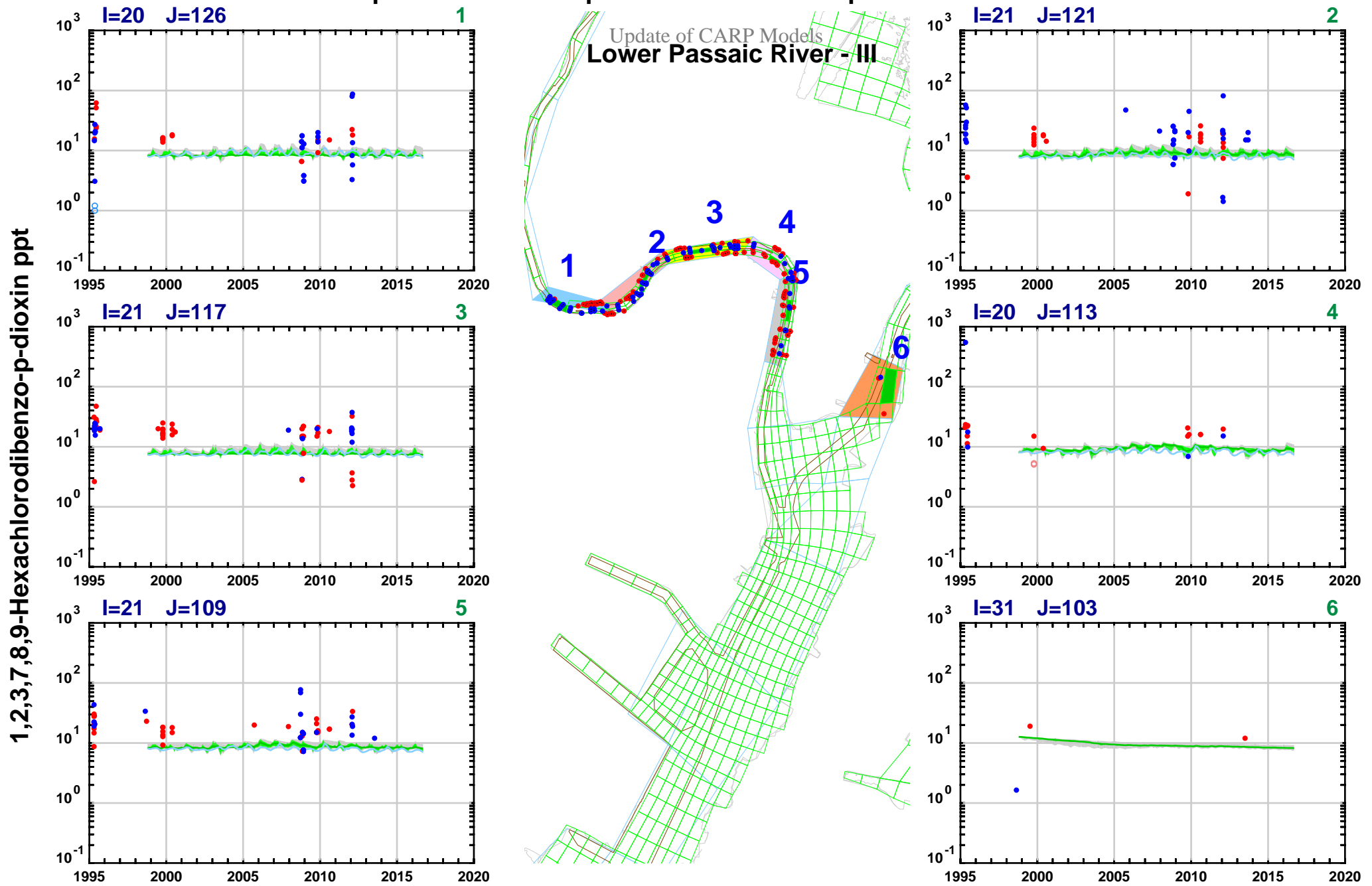


RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

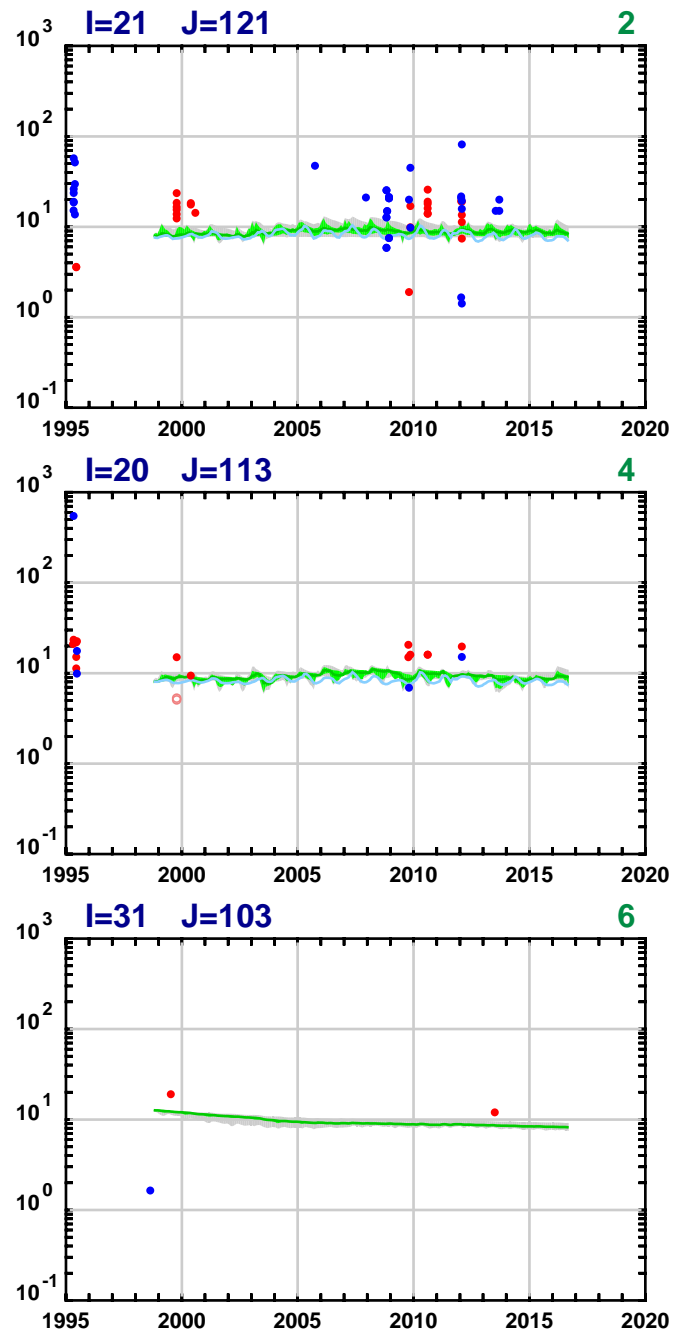
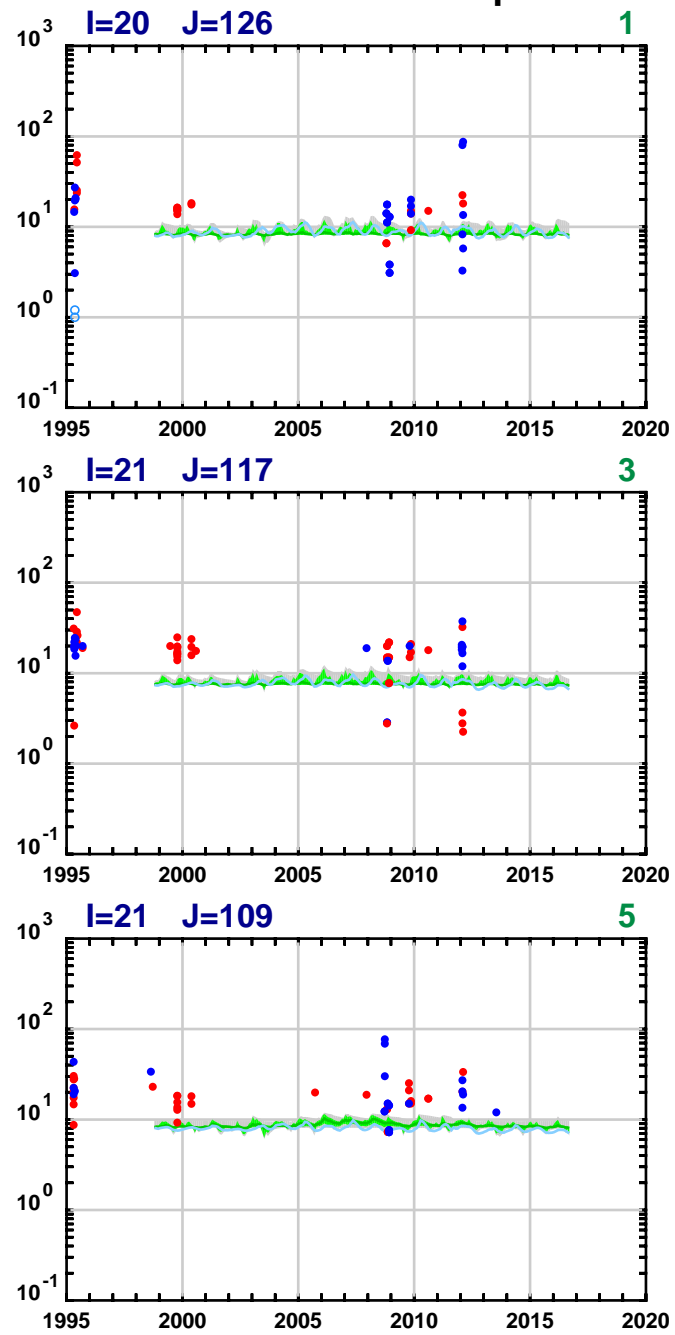
● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin ppt

Update of CARP Models  
Lower Passaic River - III



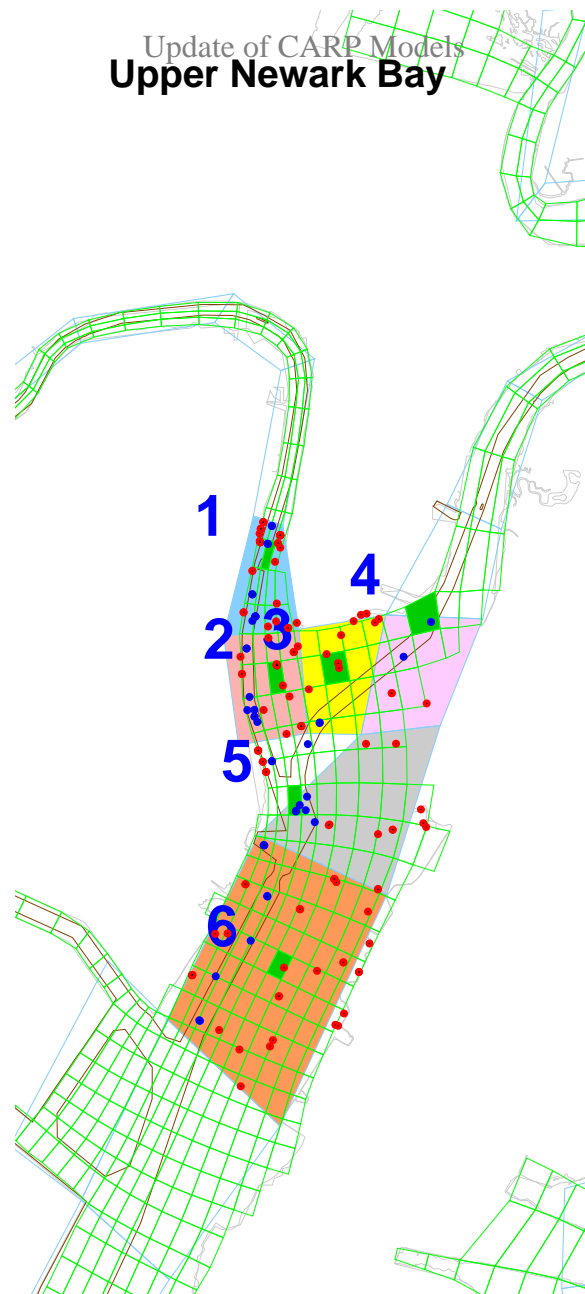
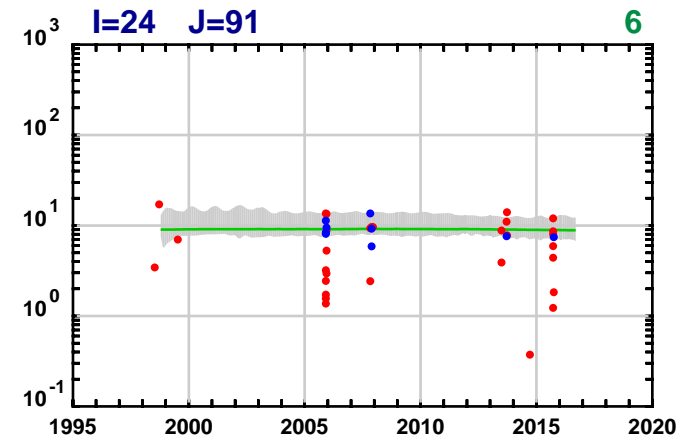
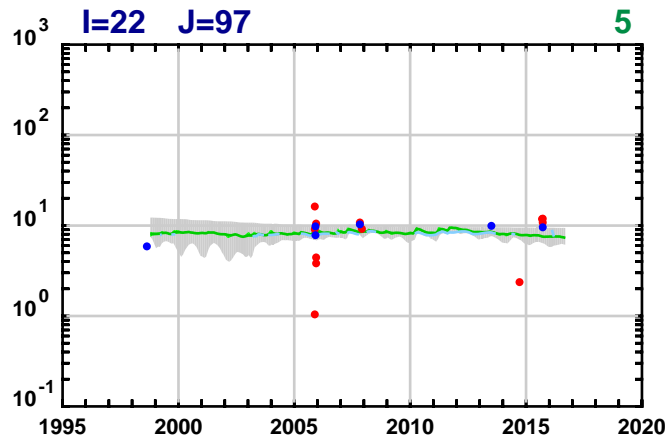
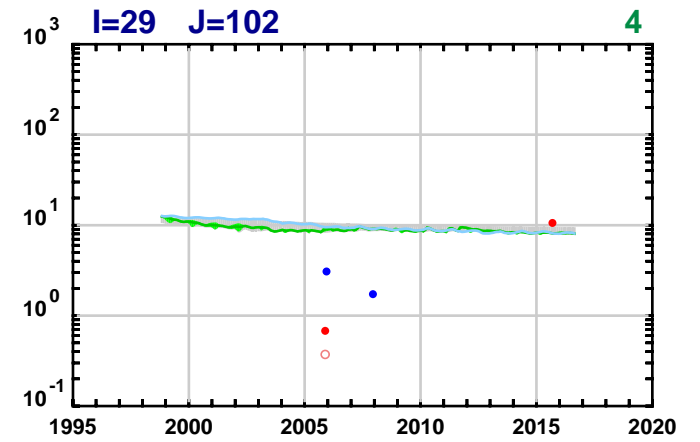
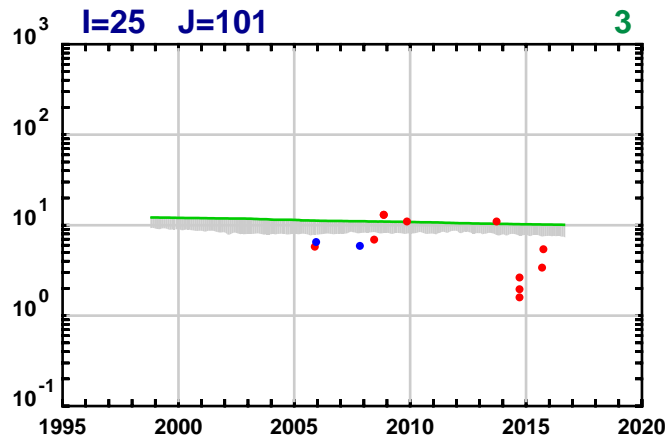
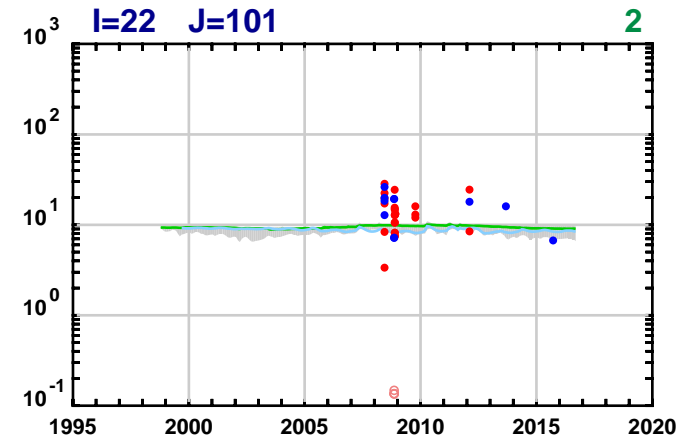
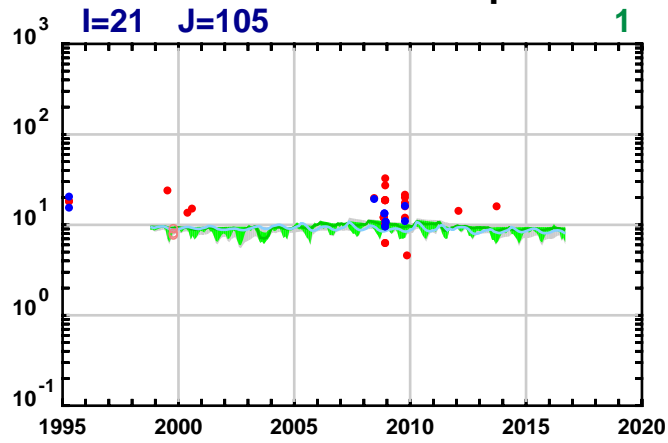
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin ppt

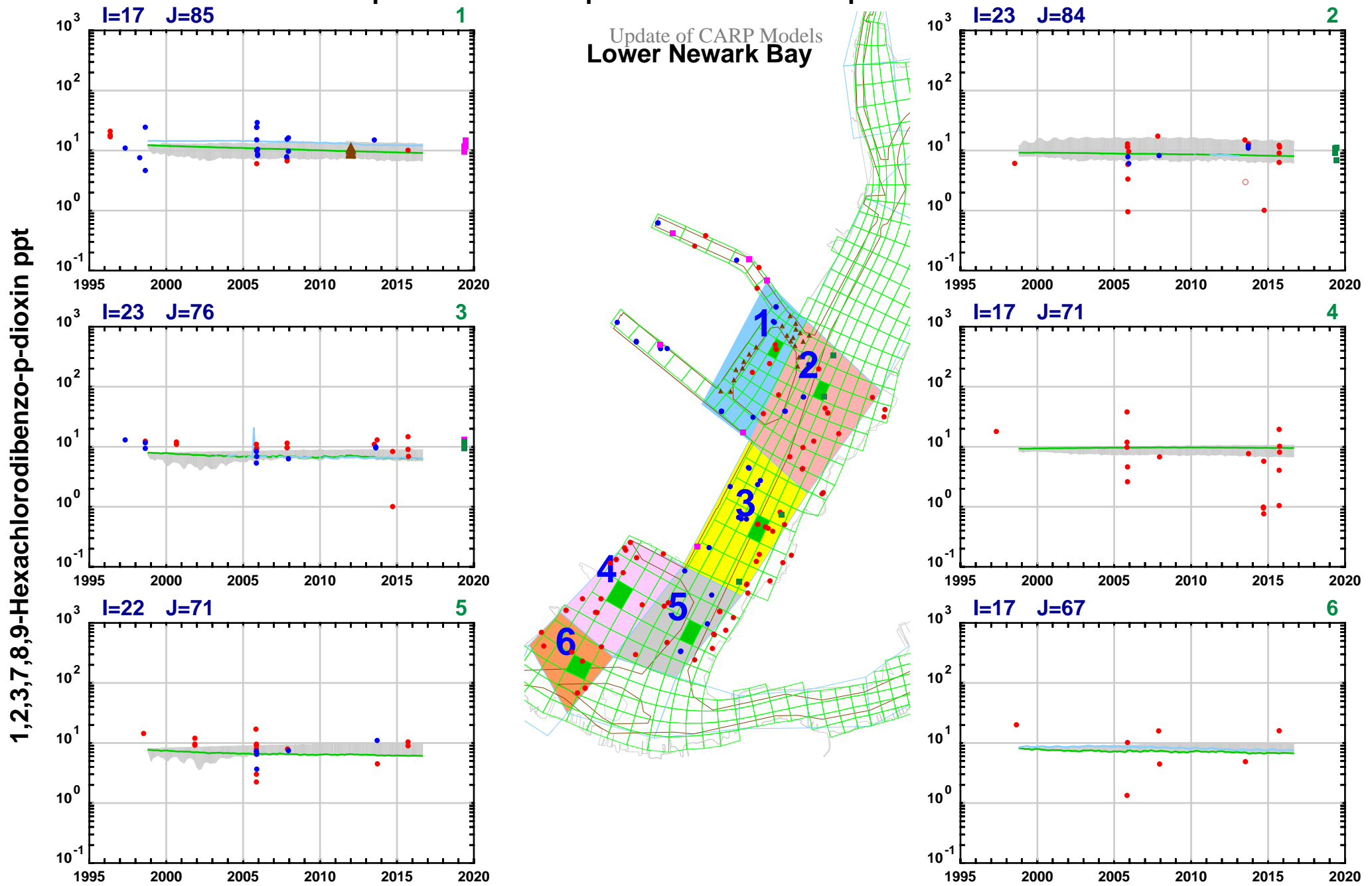


RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



RUN18\_S3

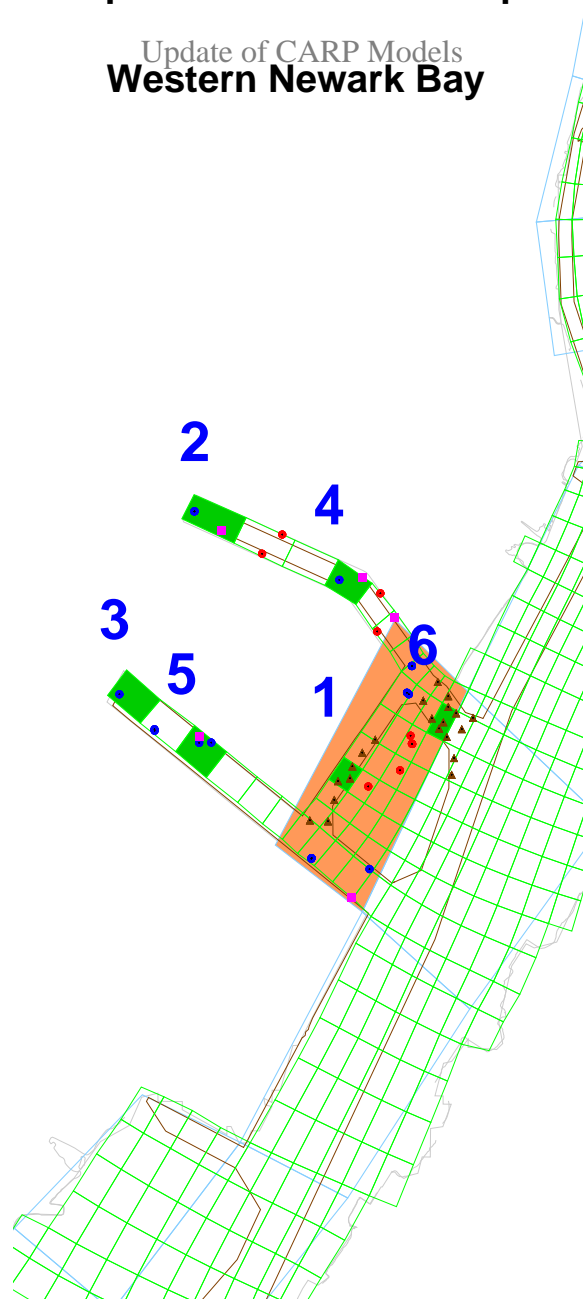
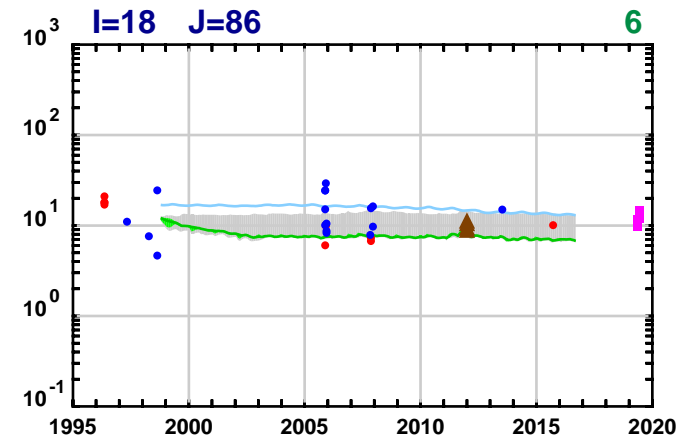
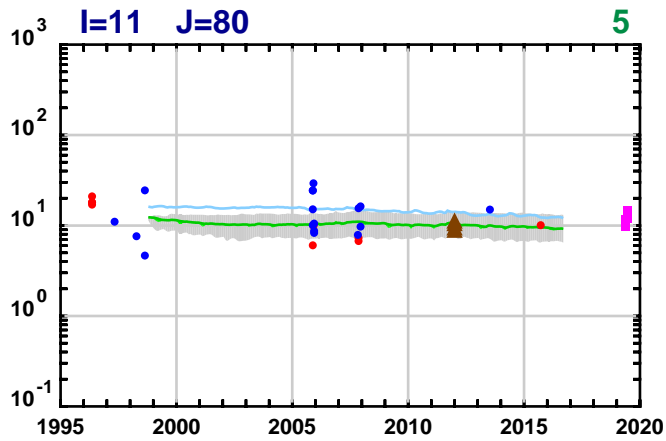
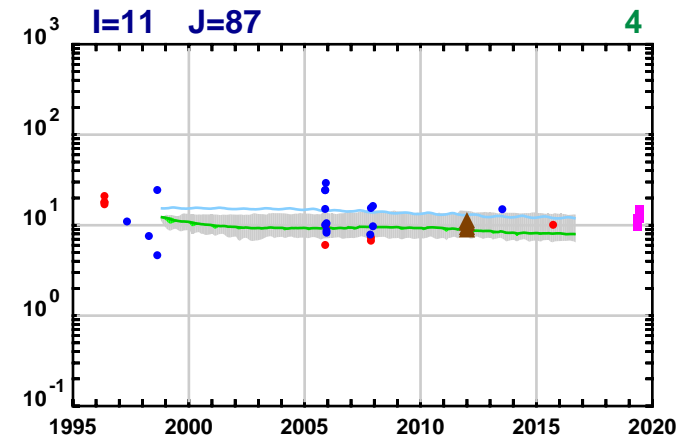
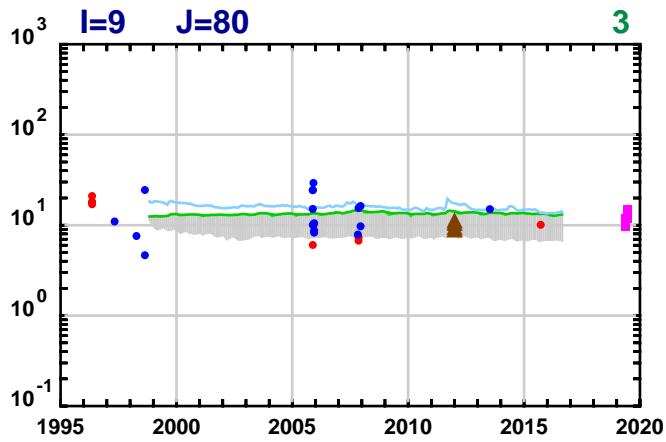
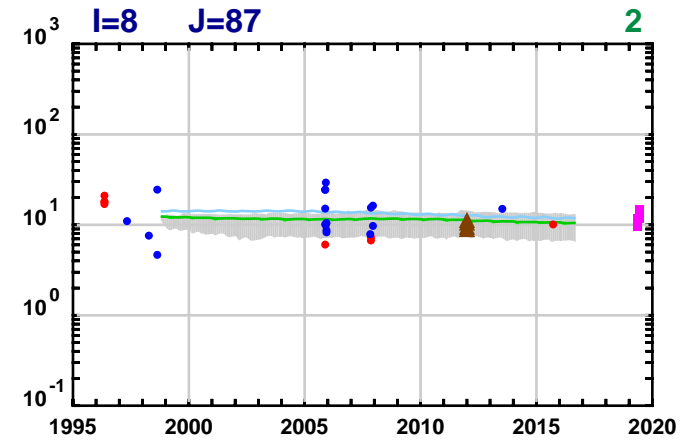
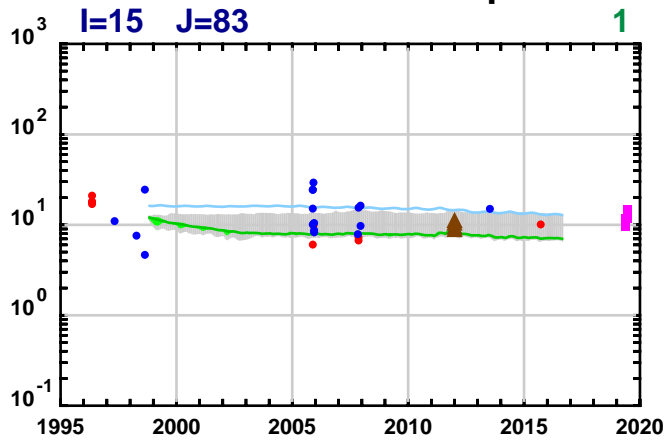
Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin ppt



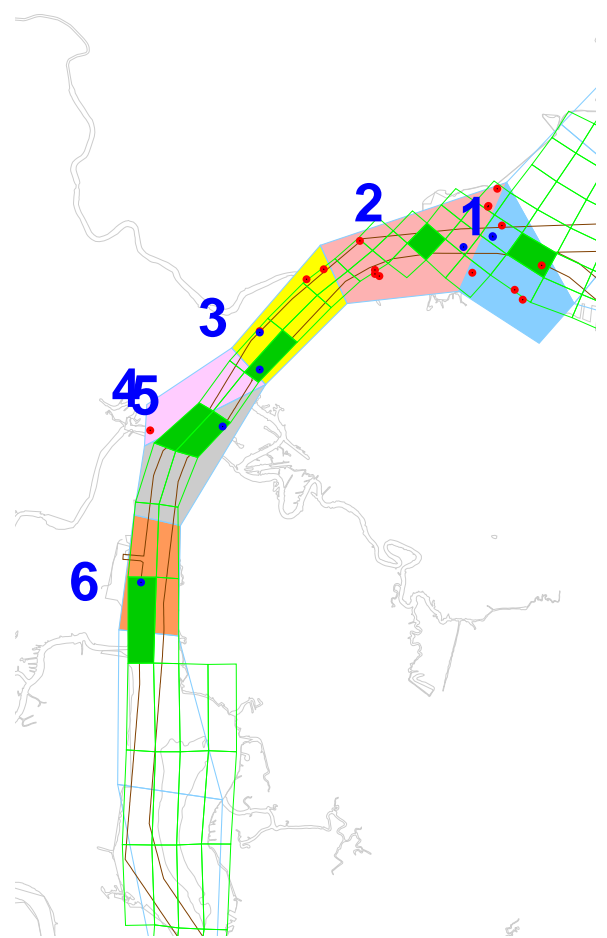
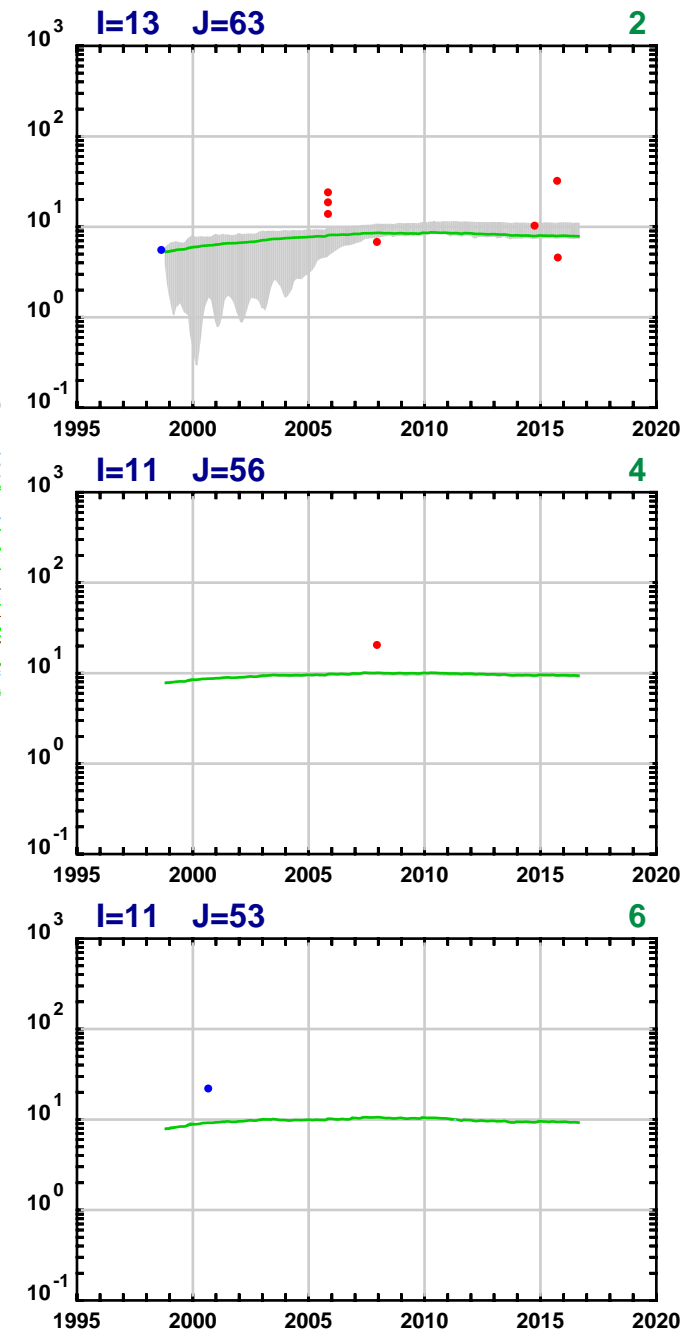
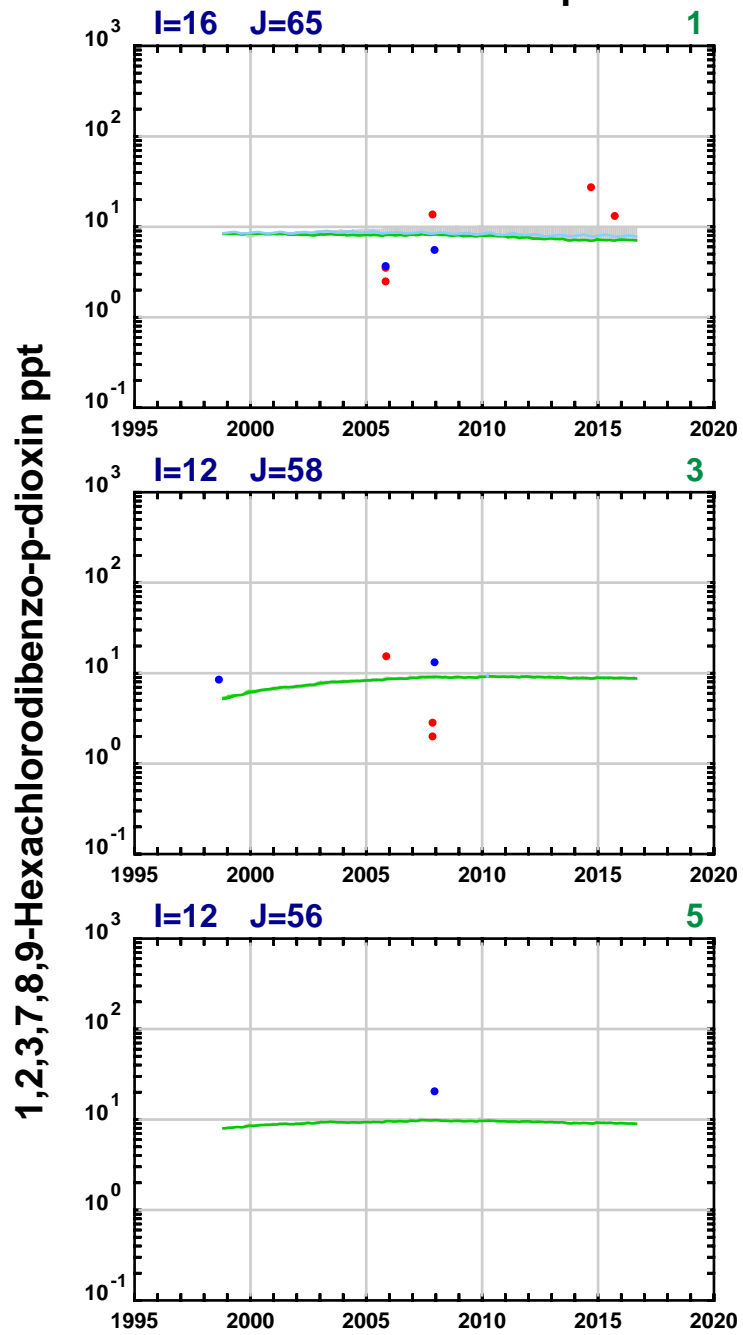
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1



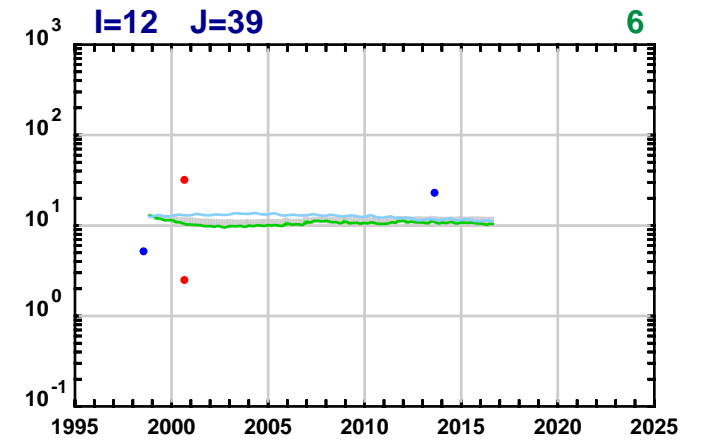
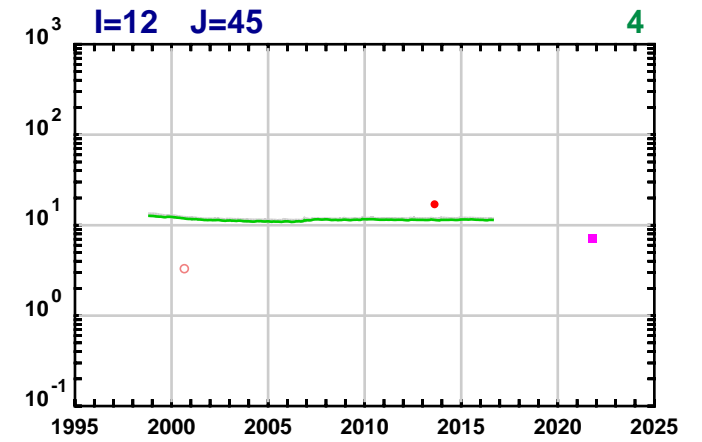
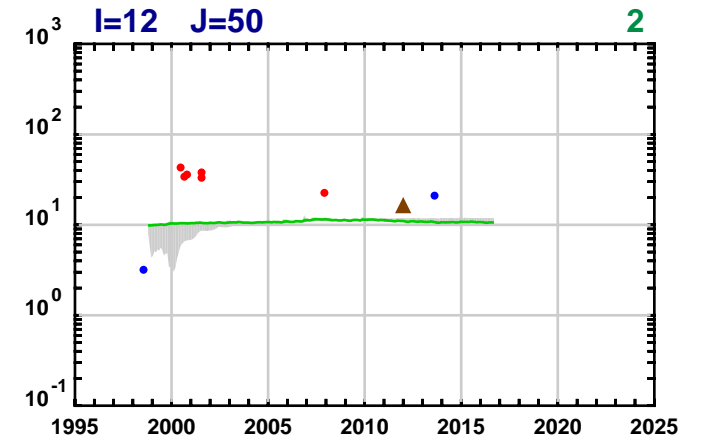
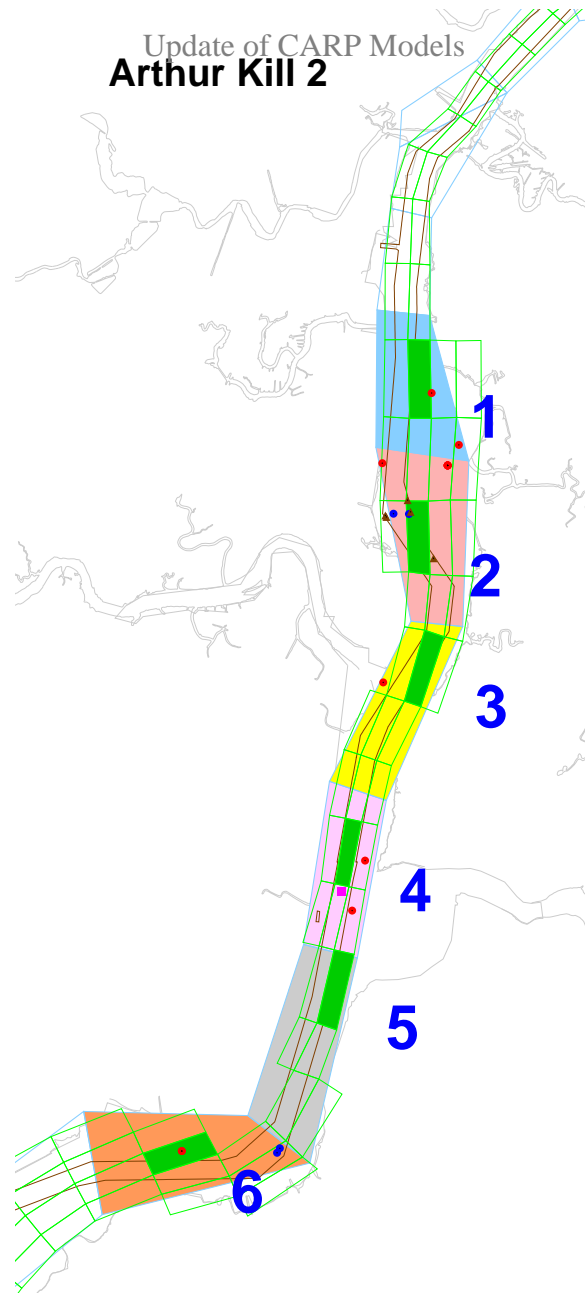
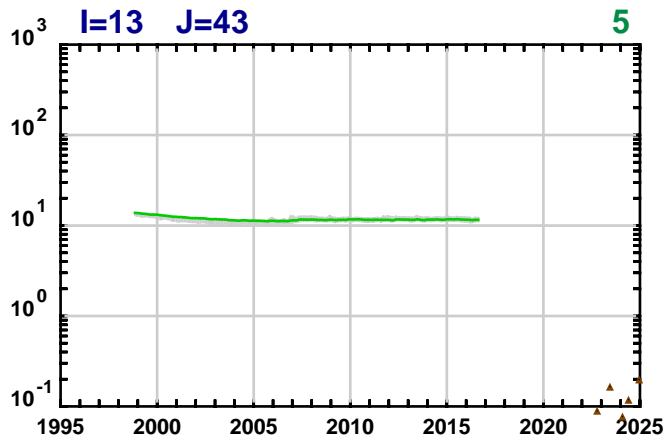
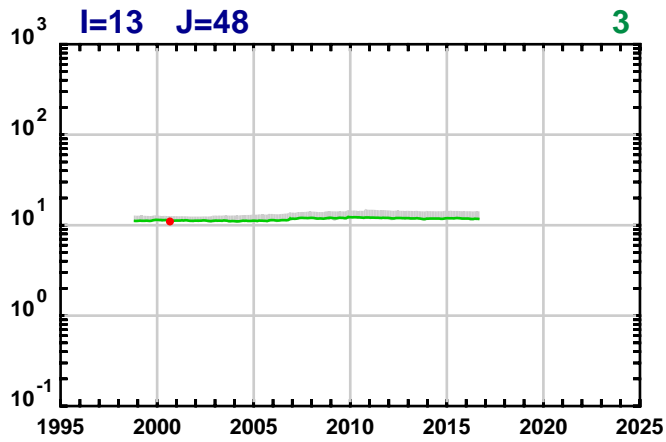
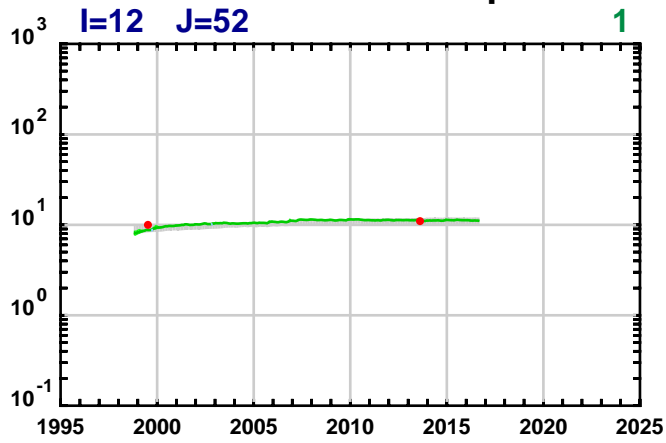
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin ppt



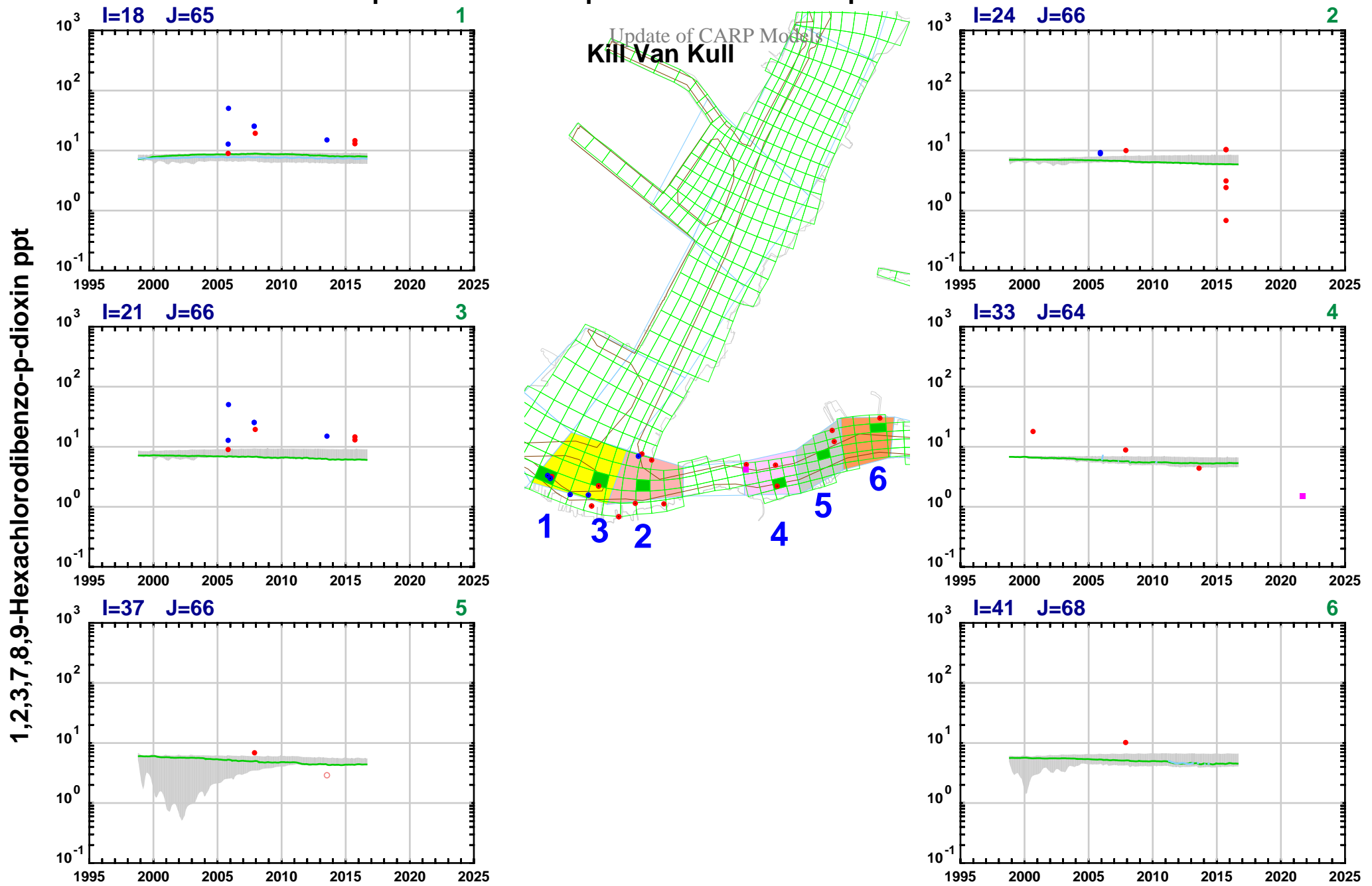
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

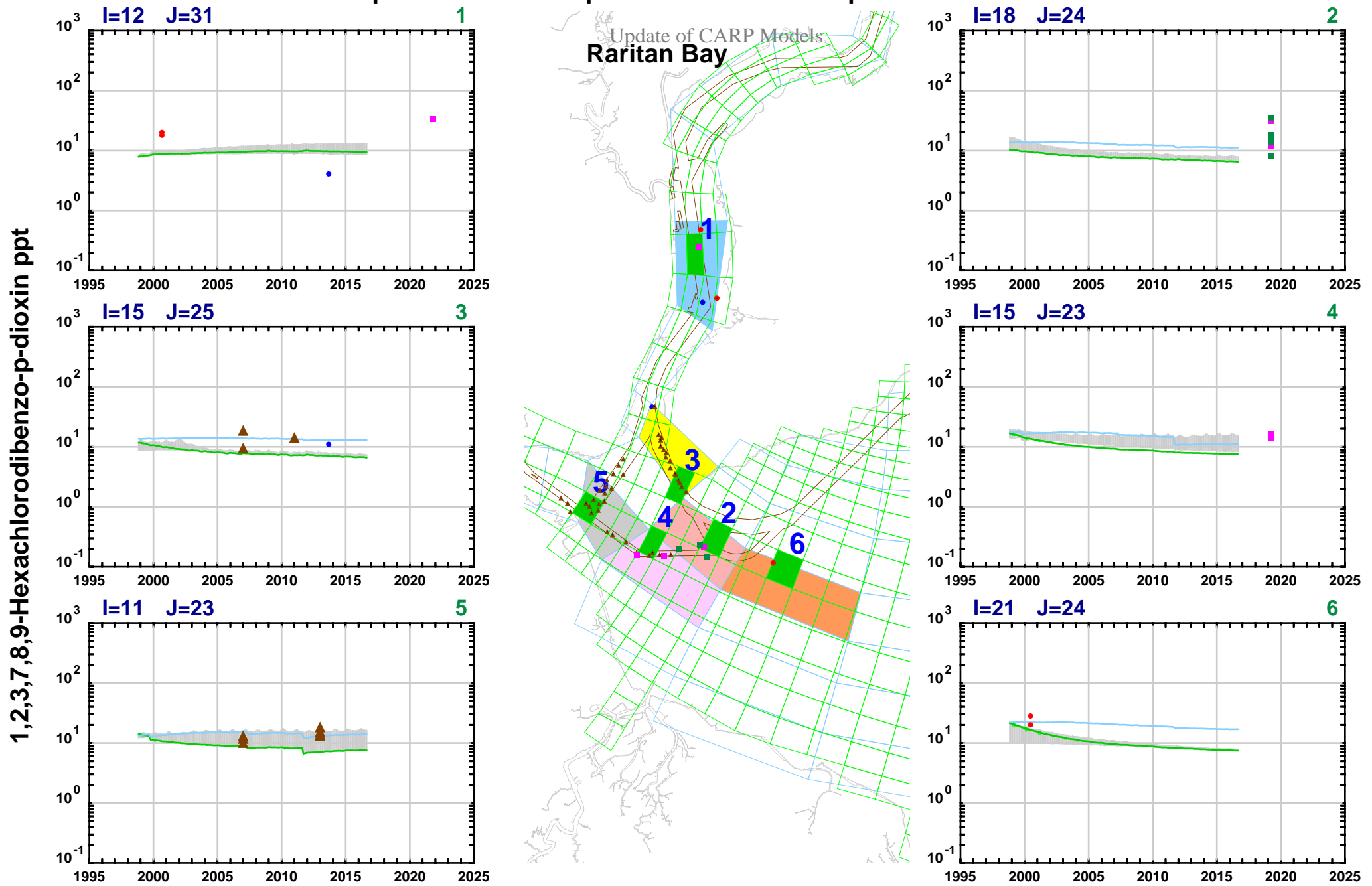


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

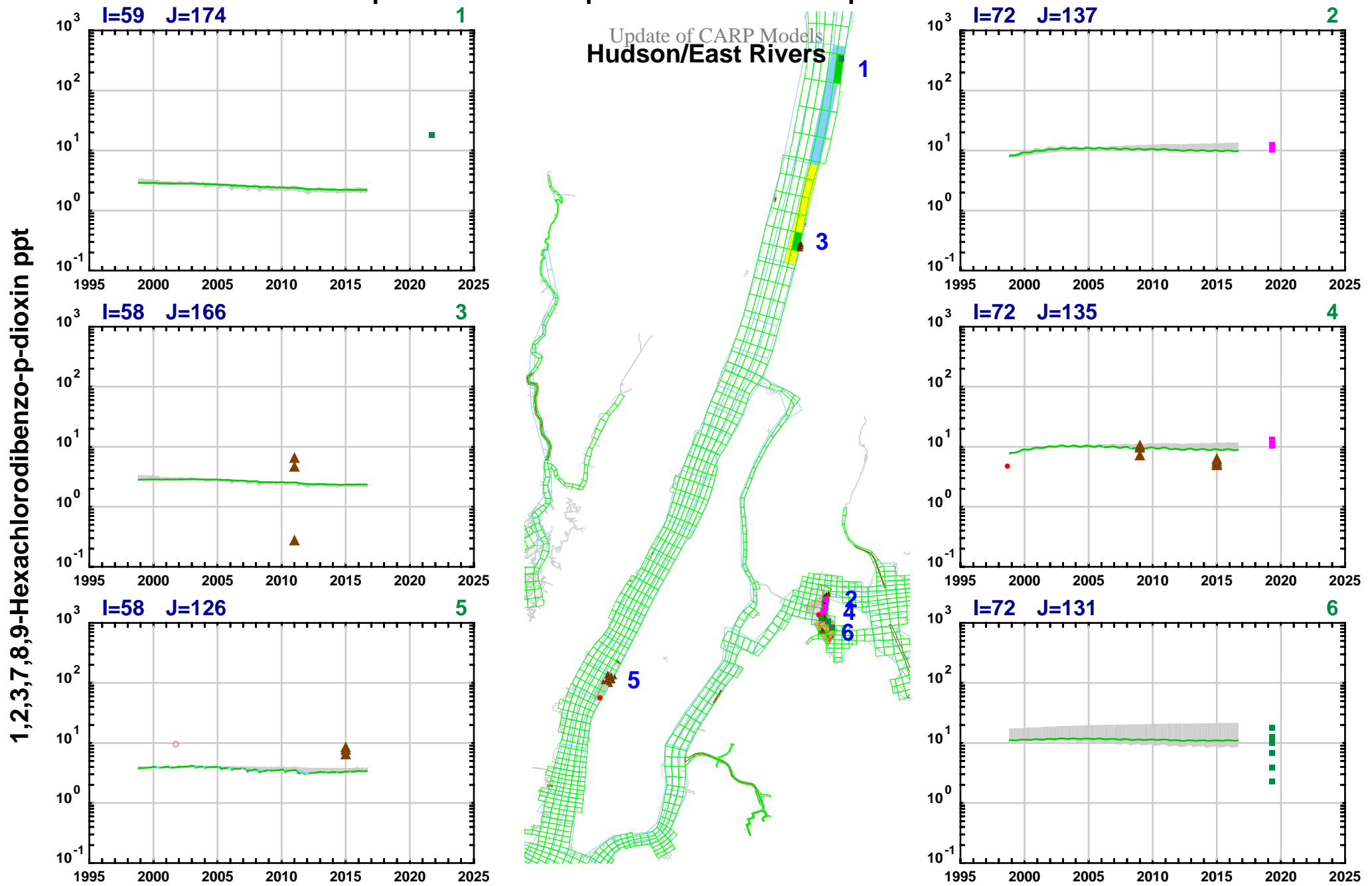


RUN18\_S3

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

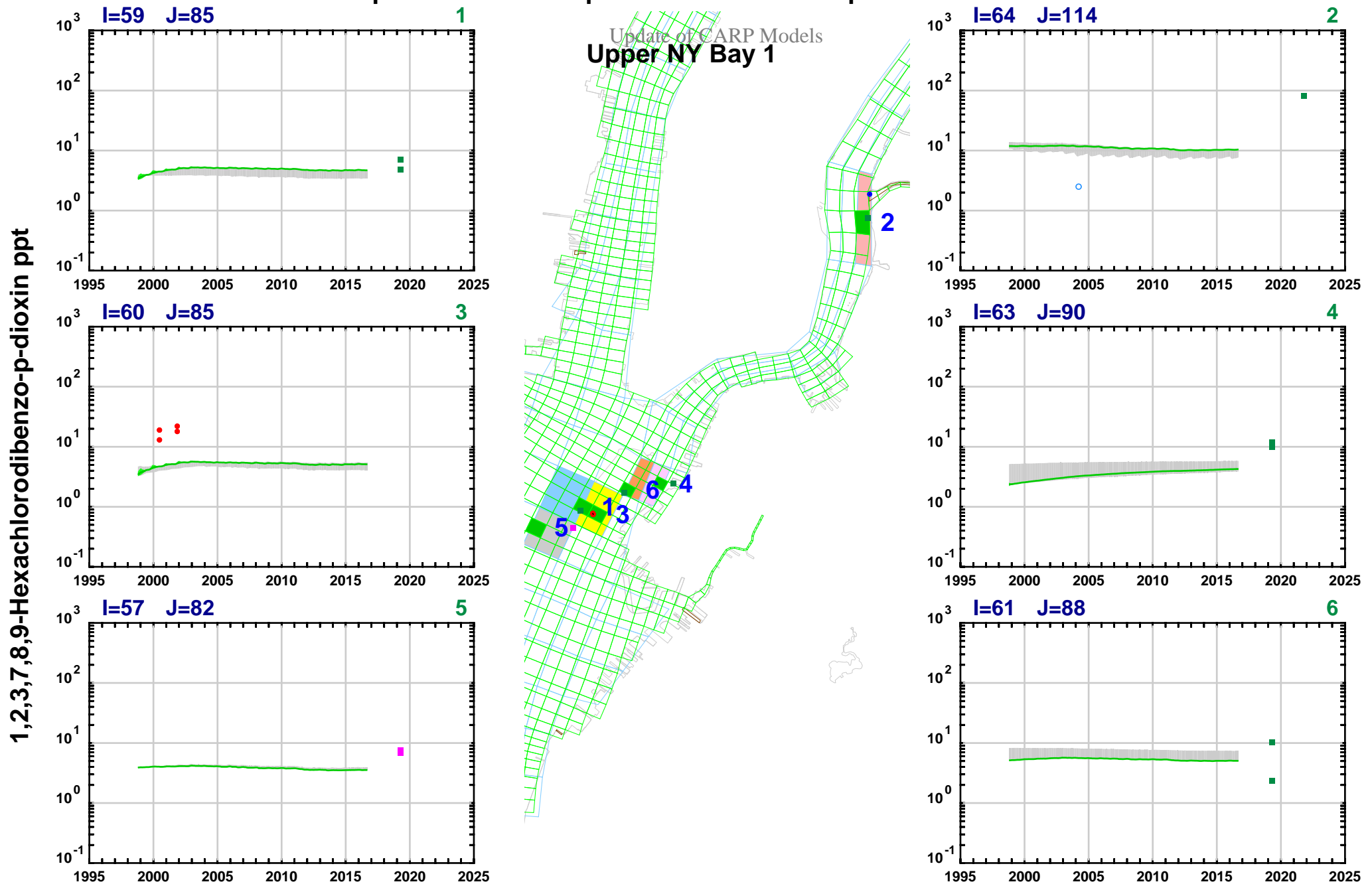


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



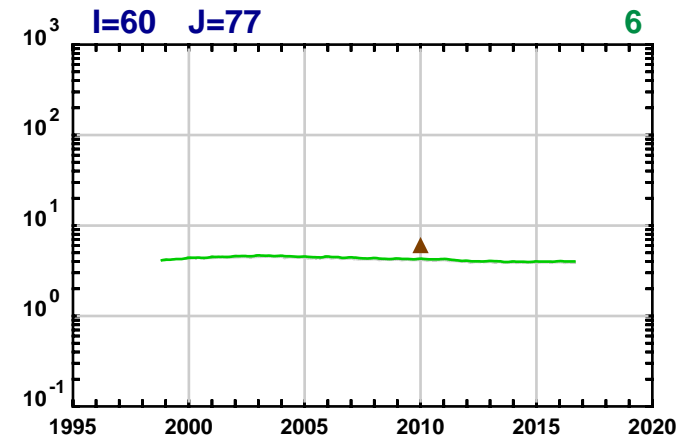
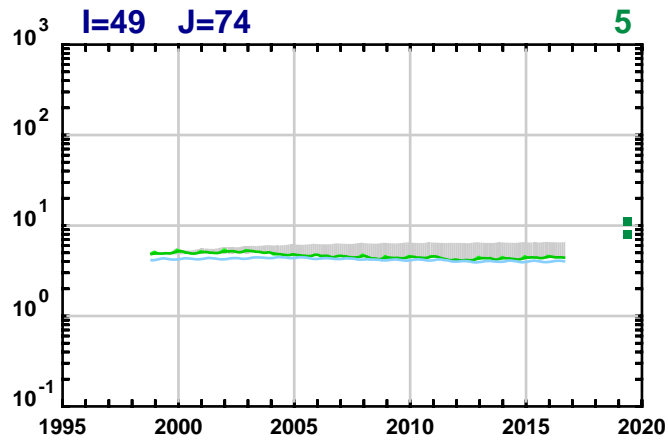
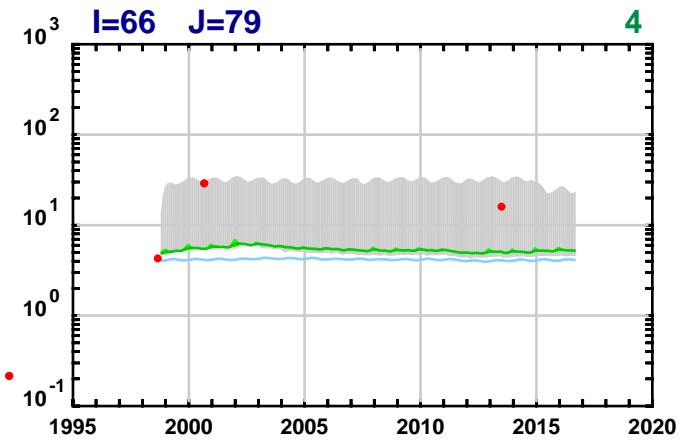
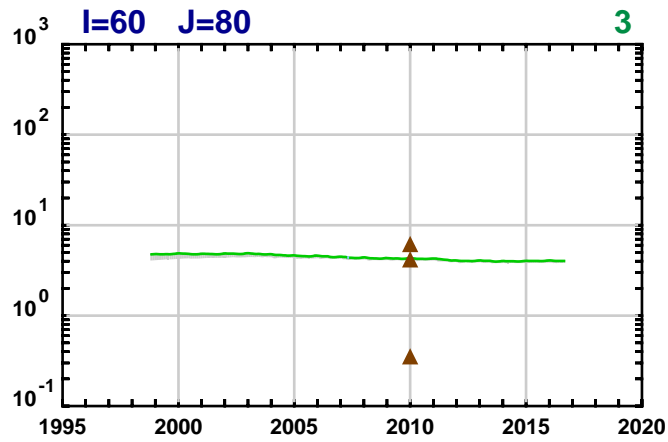
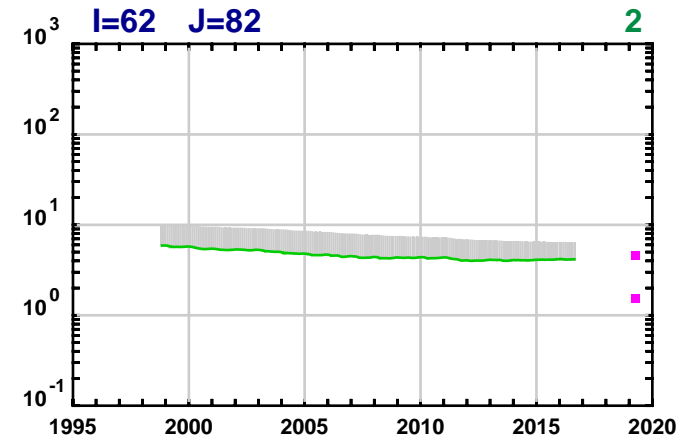
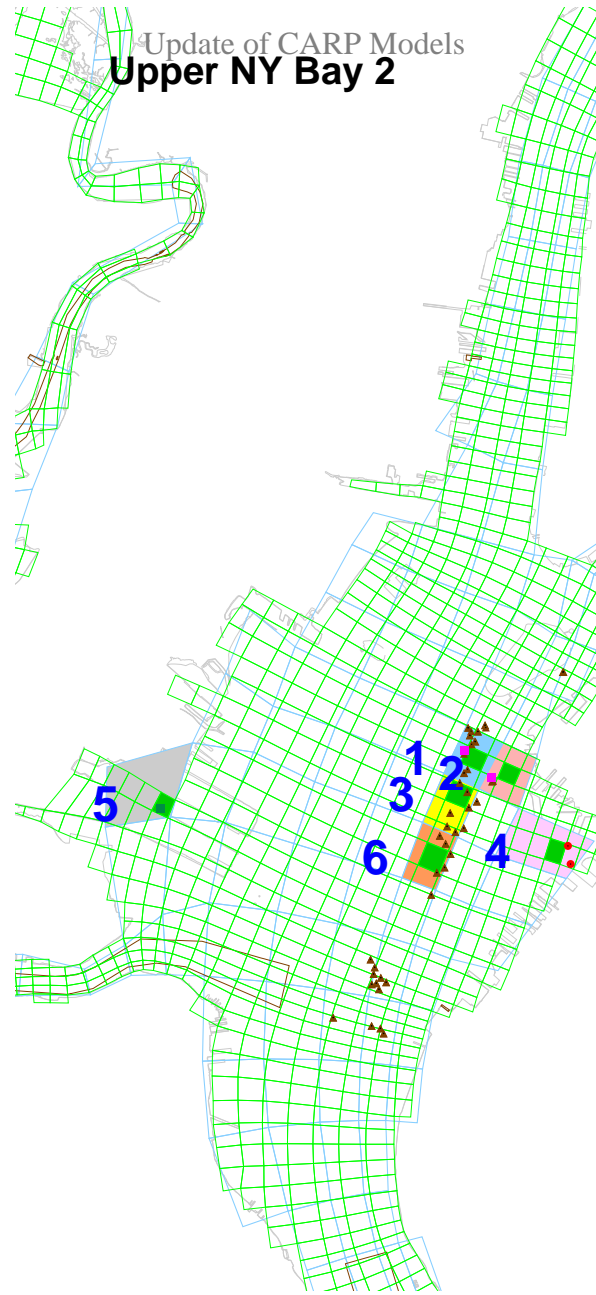
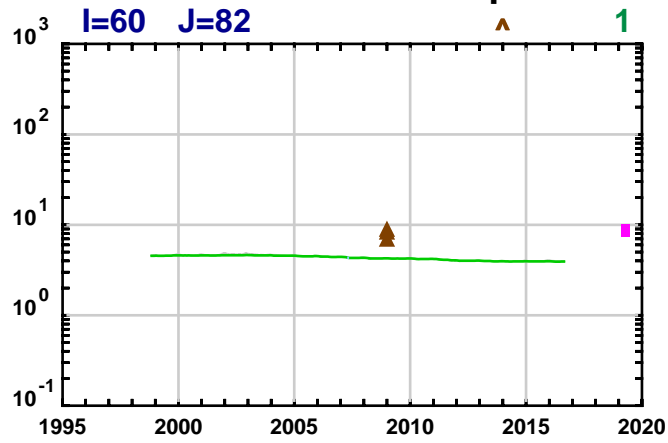
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin ppt



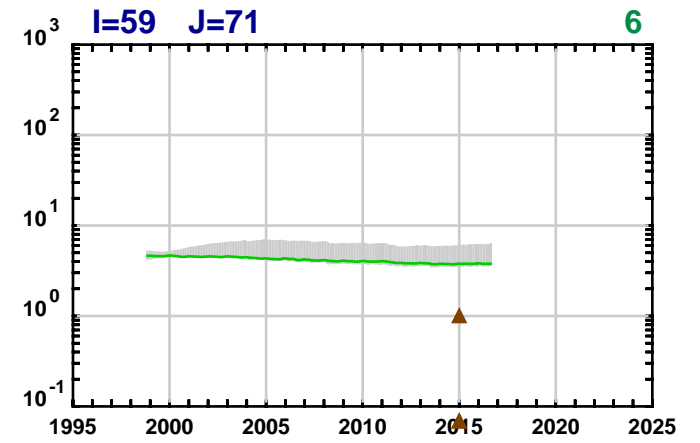
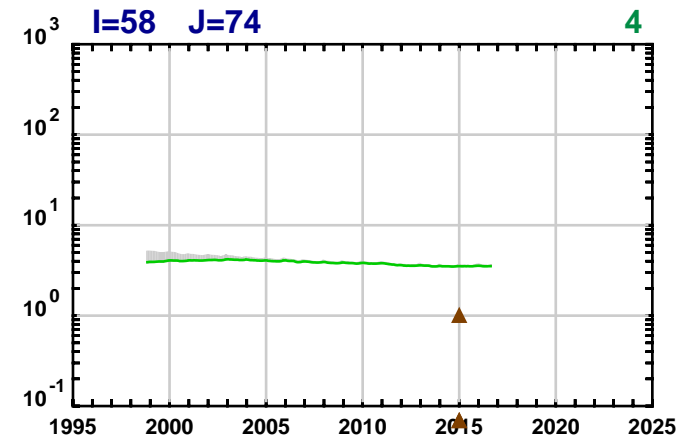
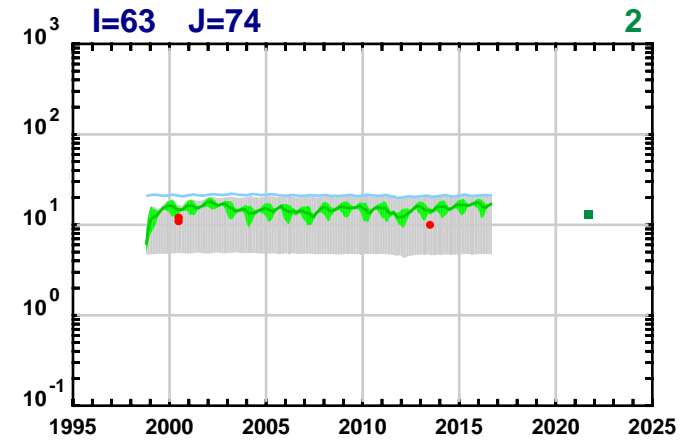
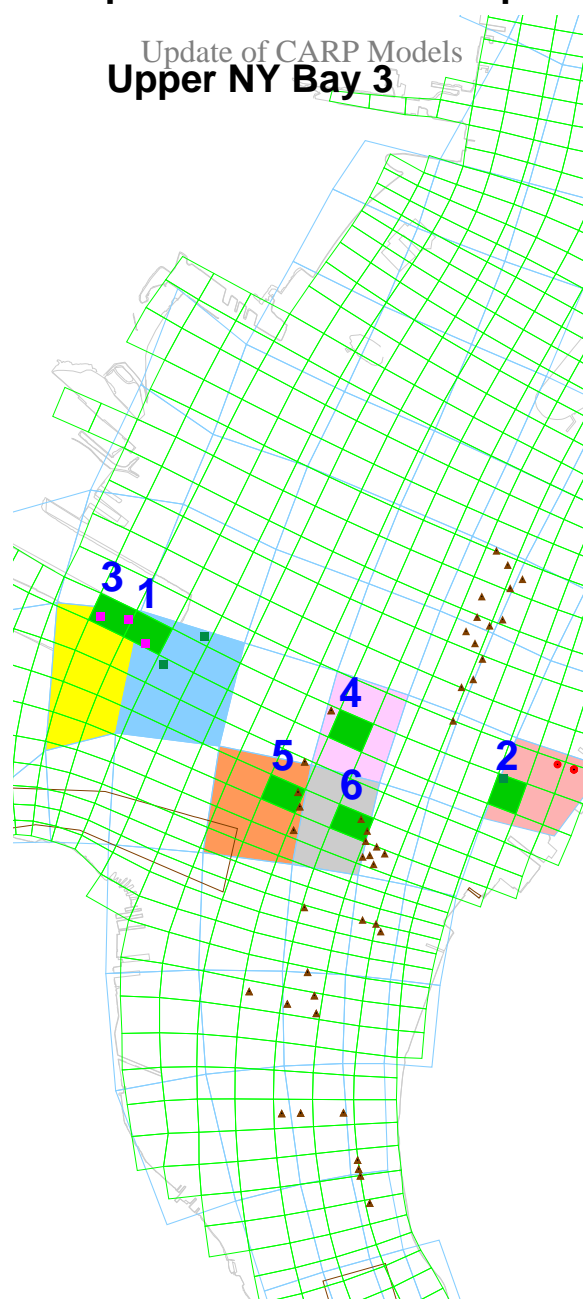
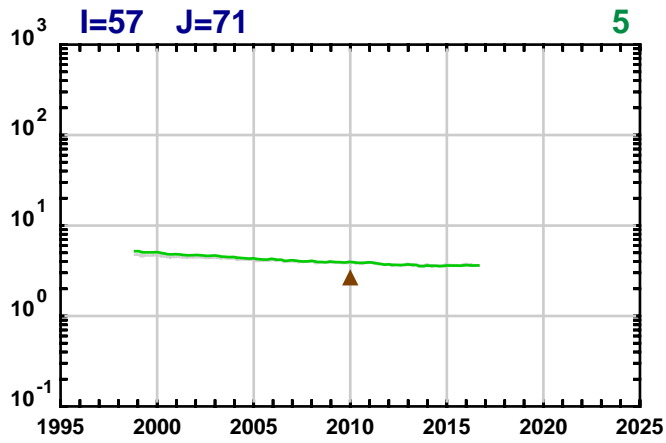
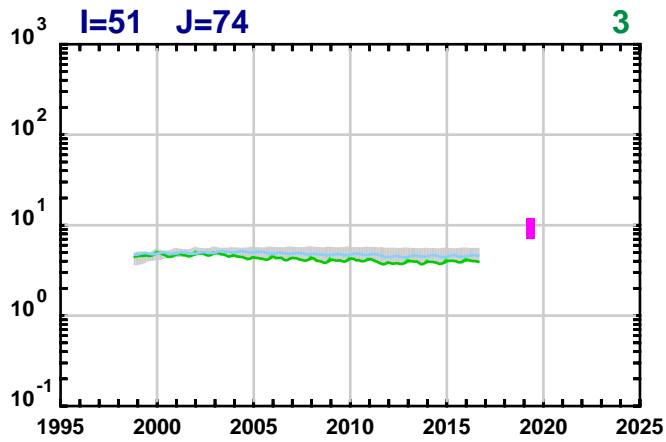
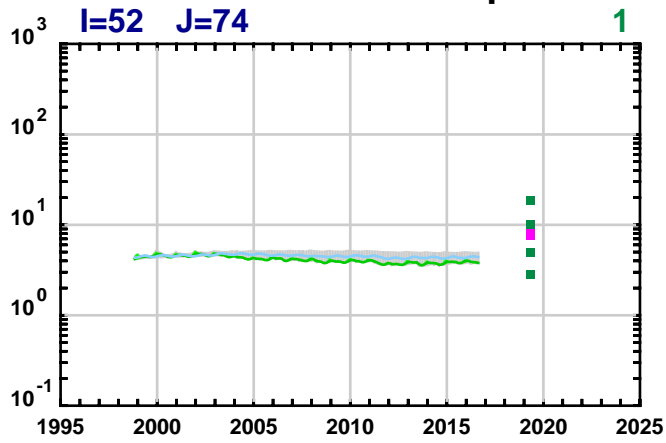
RUN18\_S3

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin ppt



**RUN18\_S3**

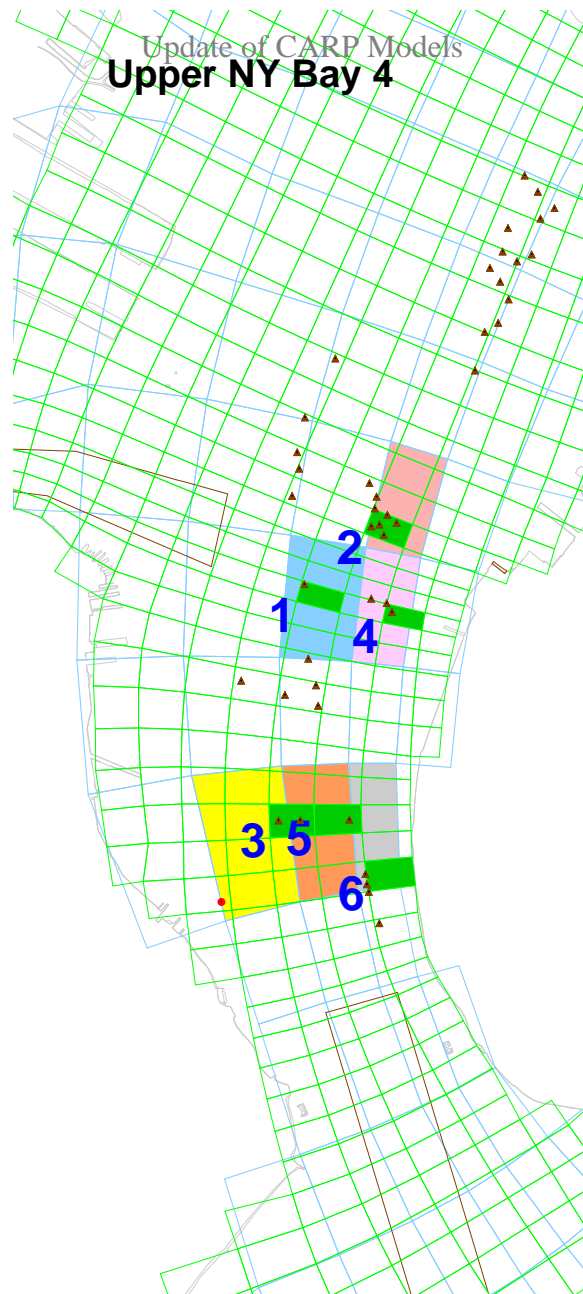
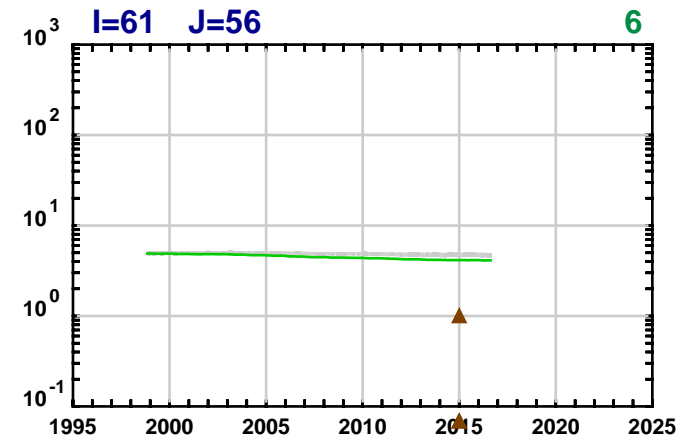
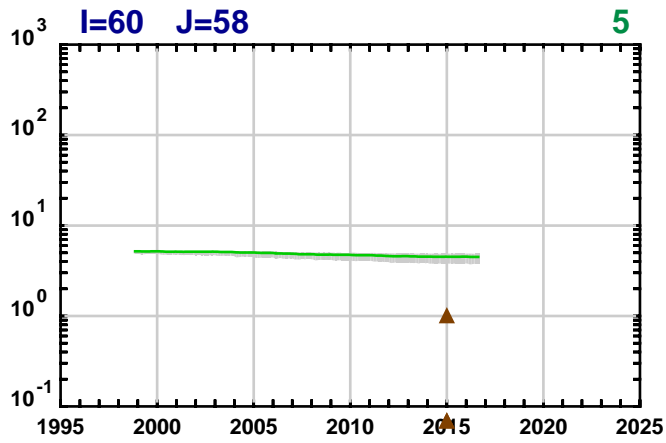
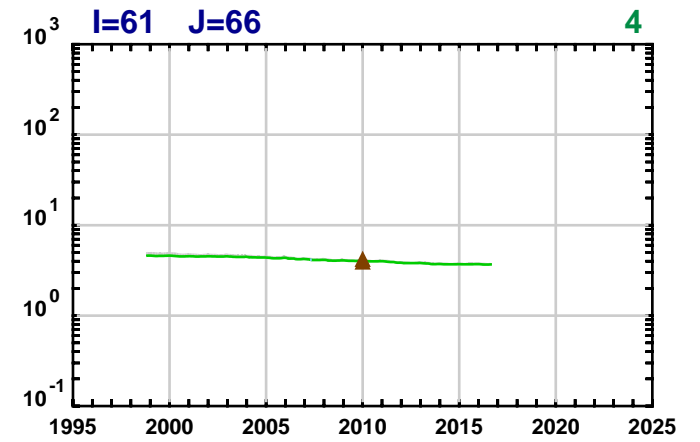
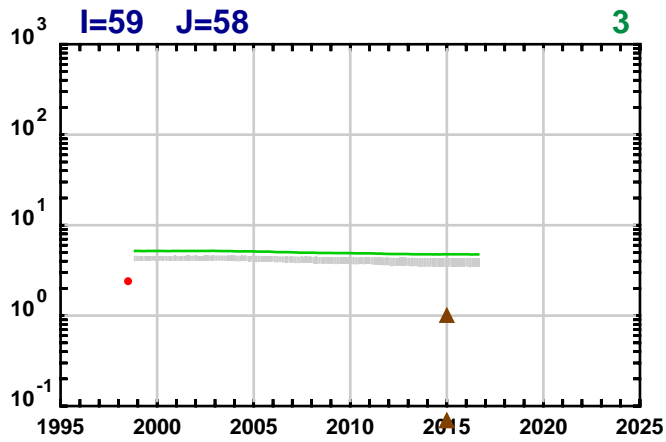
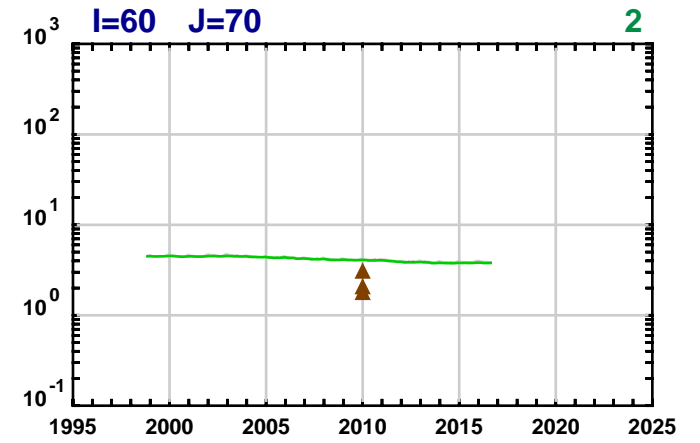
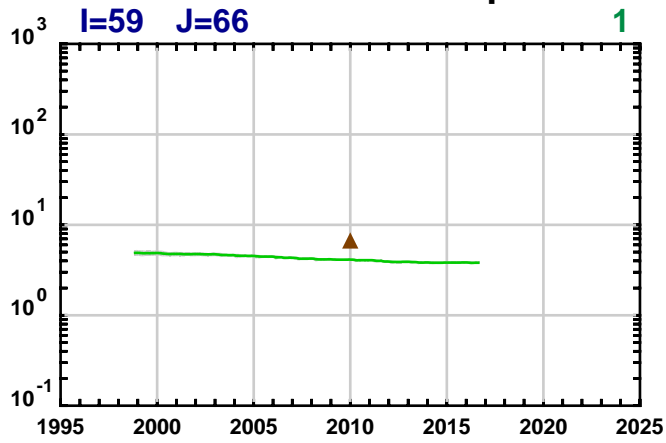
**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin ppt



**RUN18\_S3**

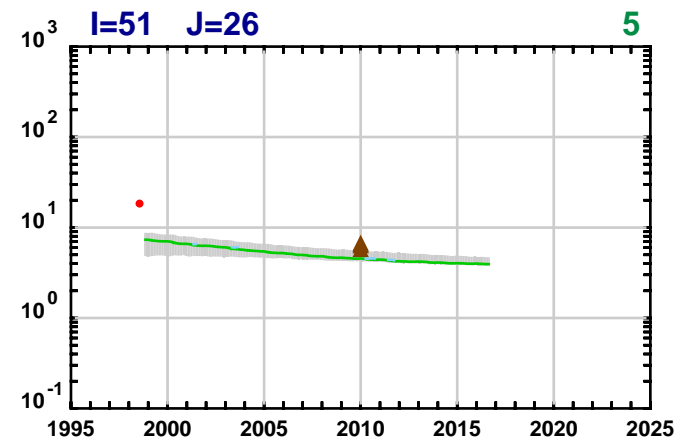
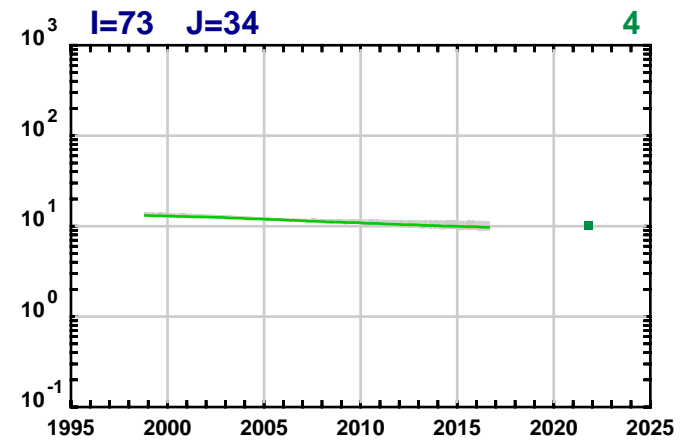
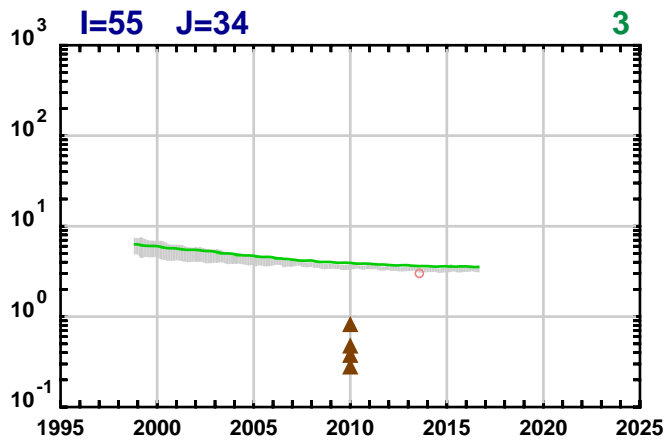
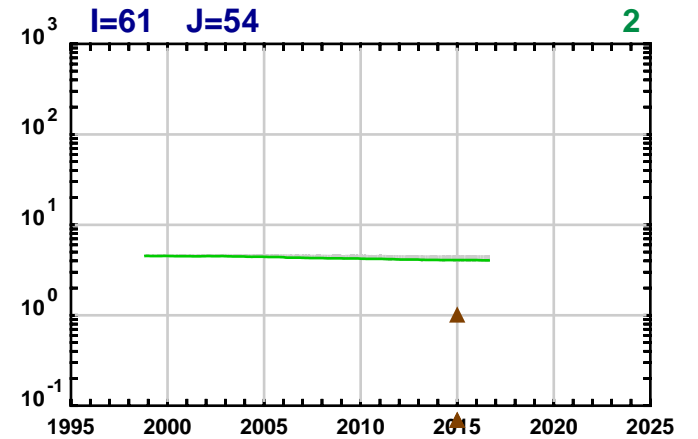
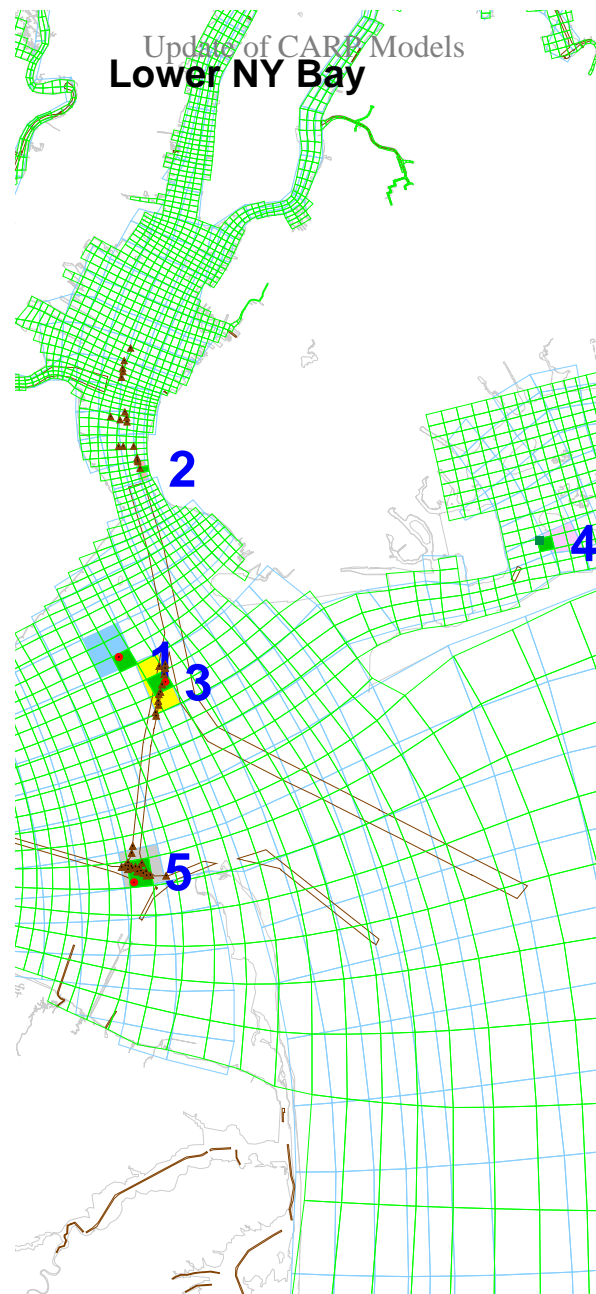
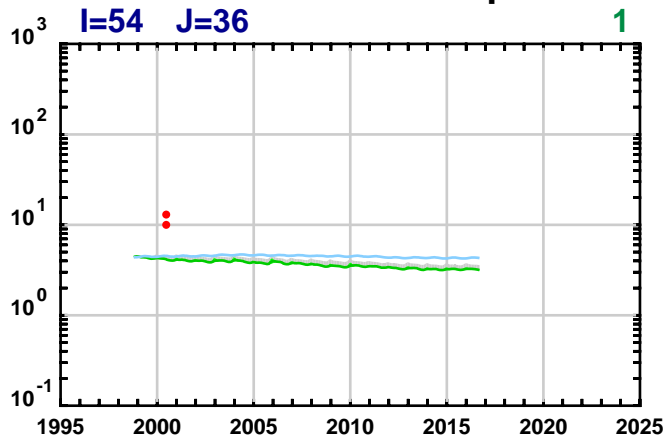
**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin ppt



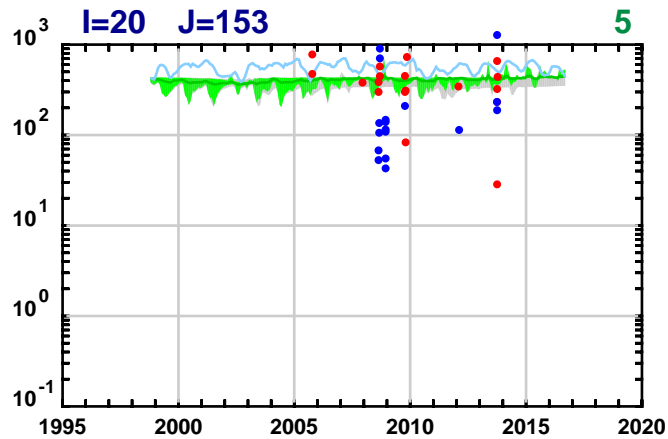
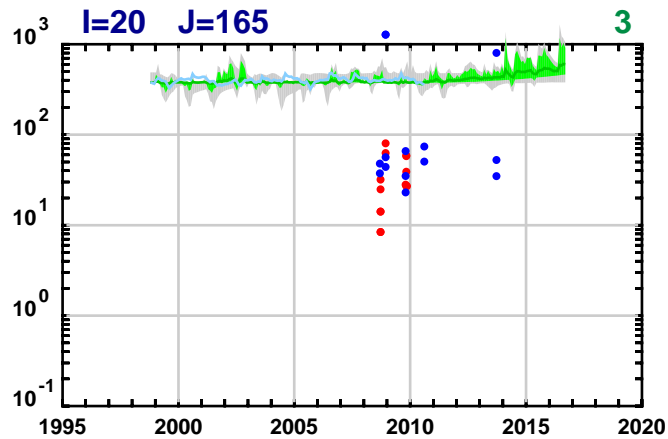
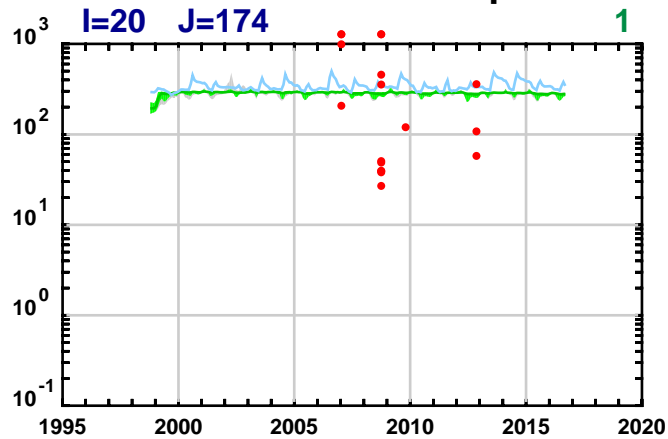
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

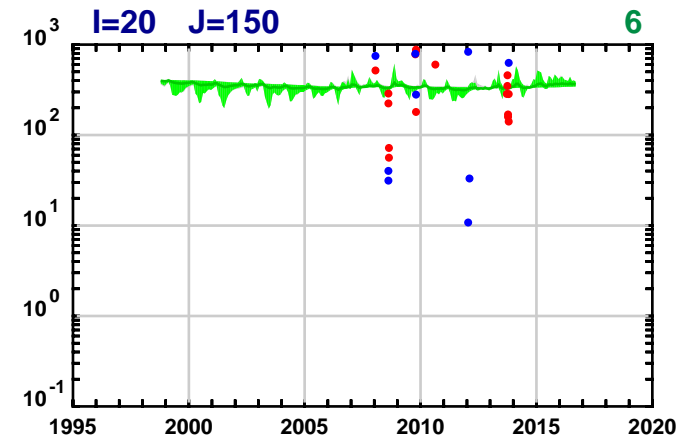
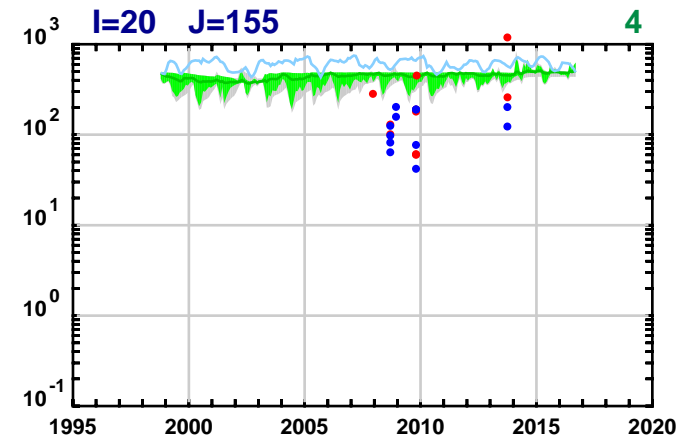
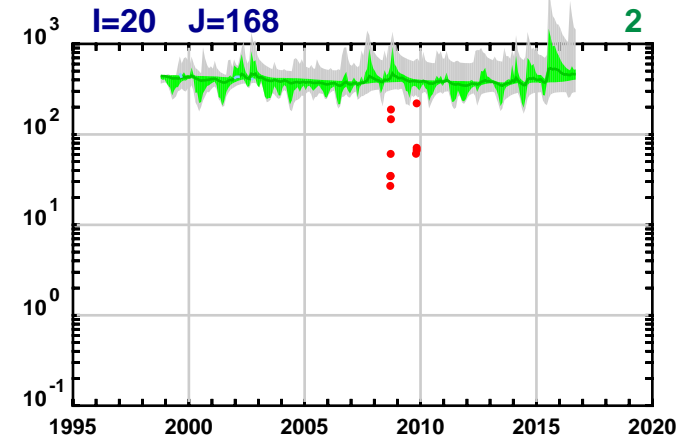
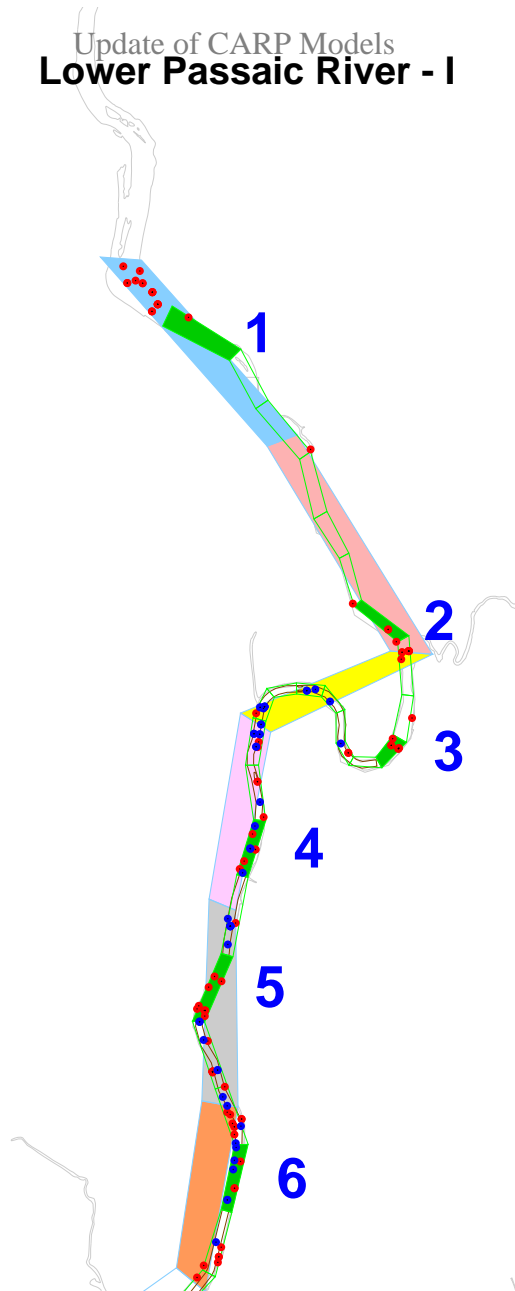
● In-channel data ● Off-channel data ▲ Dredge data  
■ CAPP2 In-channel ■ CAPP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin ppt



## Update of CARP Models Lower Passaic River - I



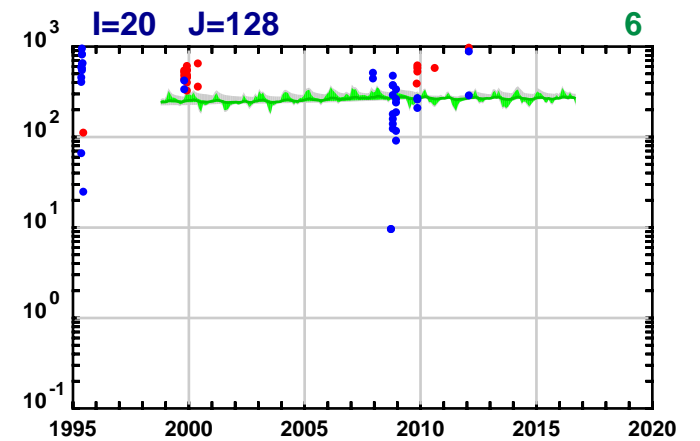
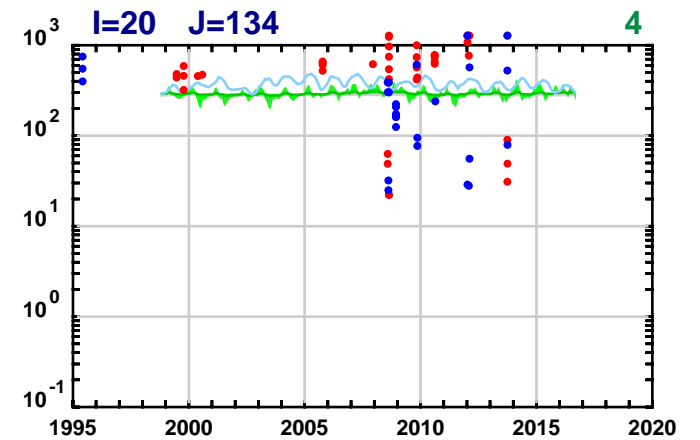
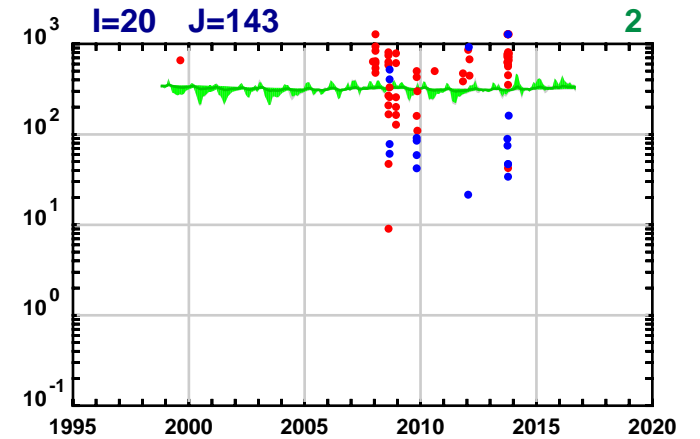
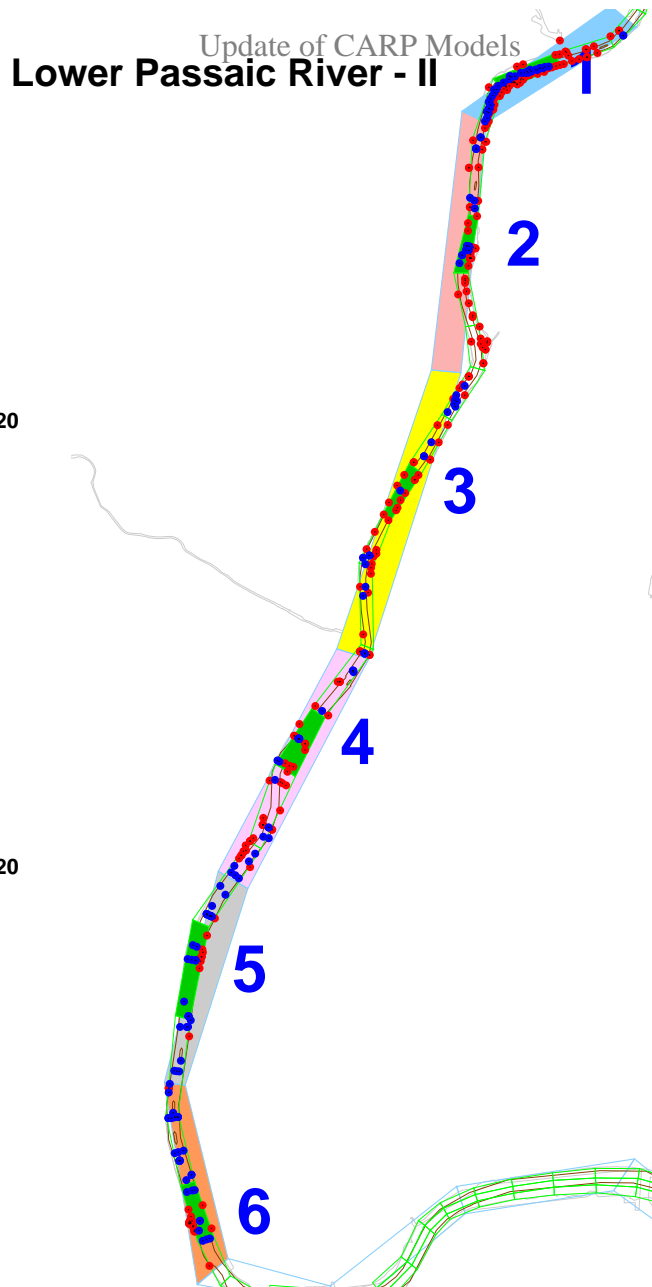
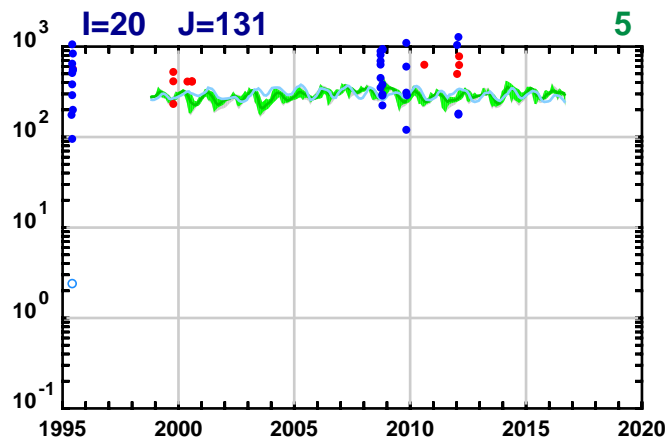
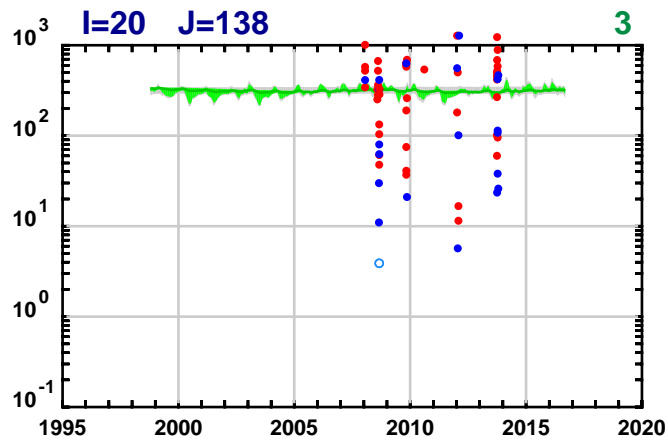
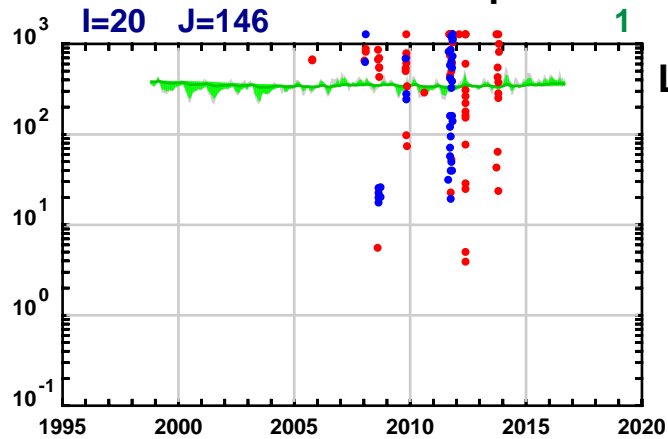
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin ppt

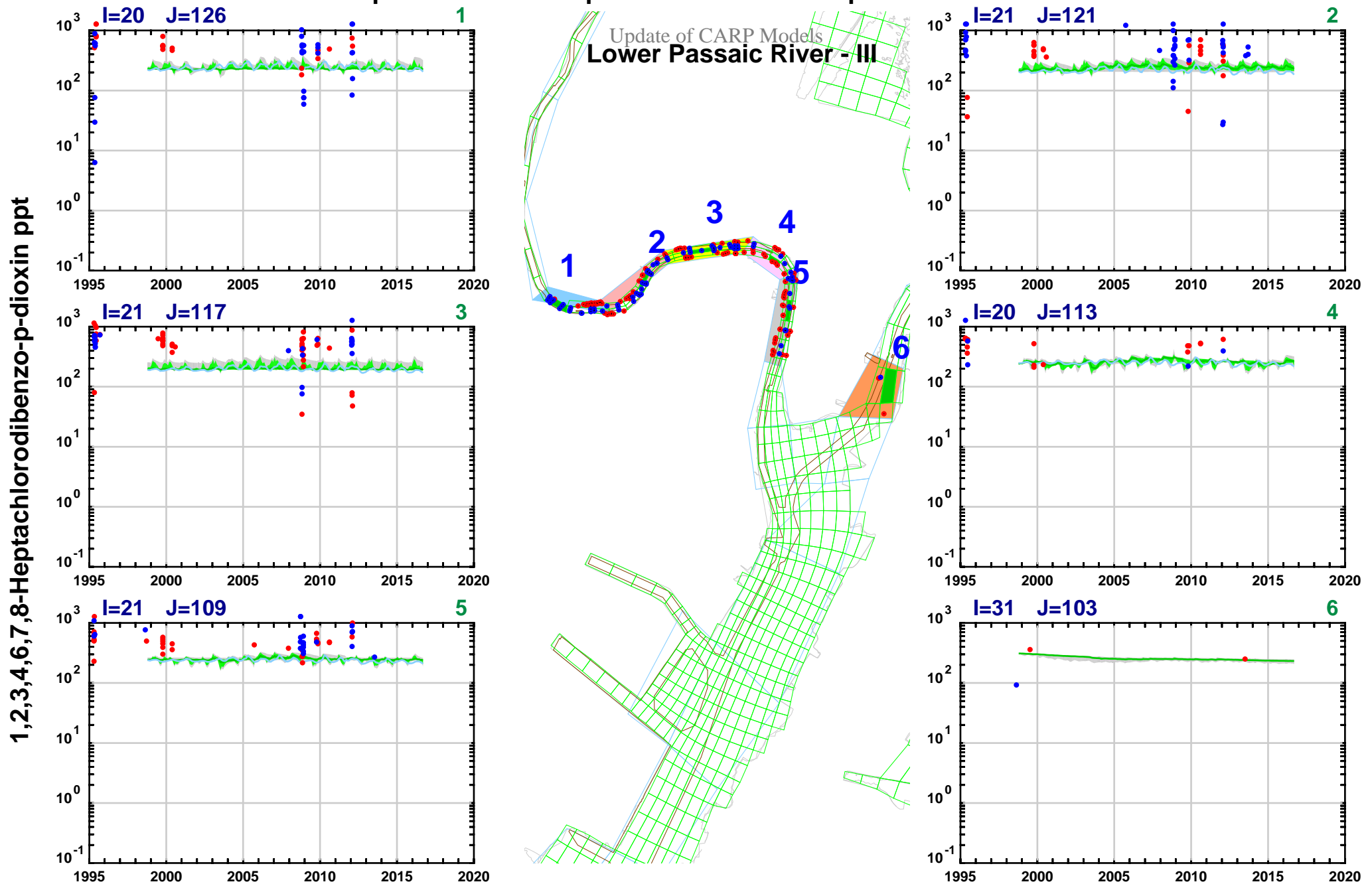


RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



Update of CARP Models  
Lower Passaic River - III

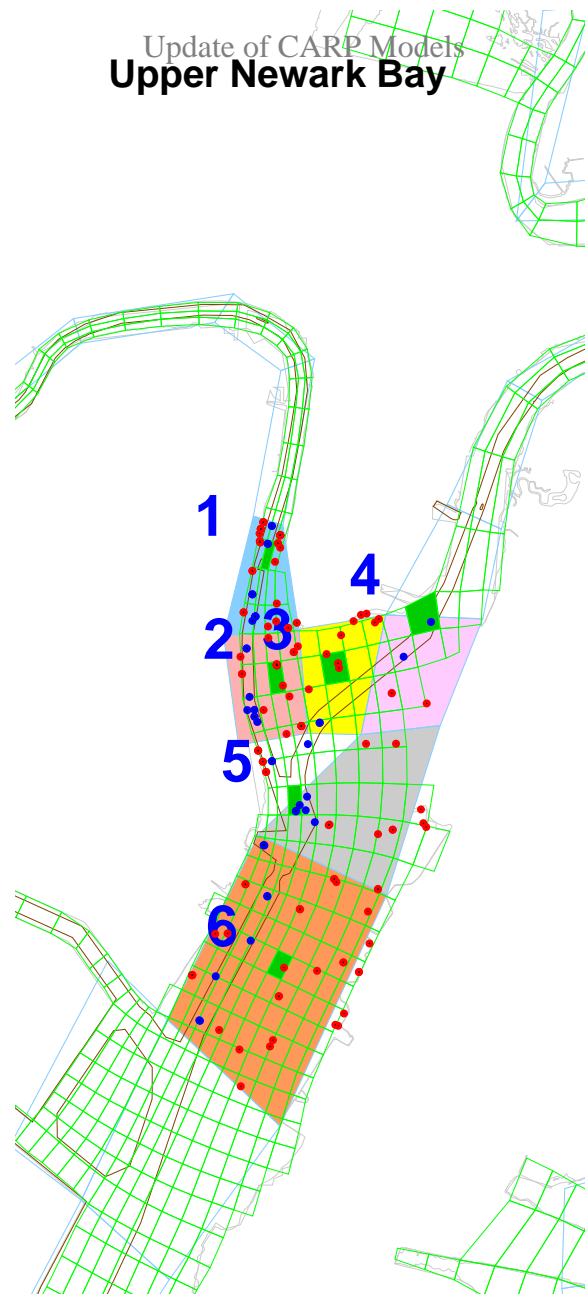
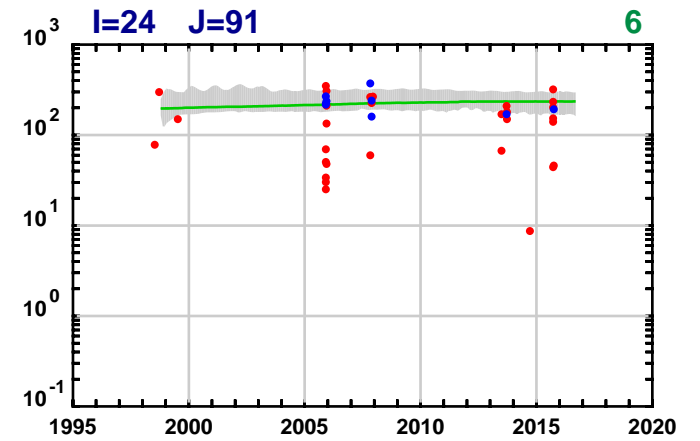
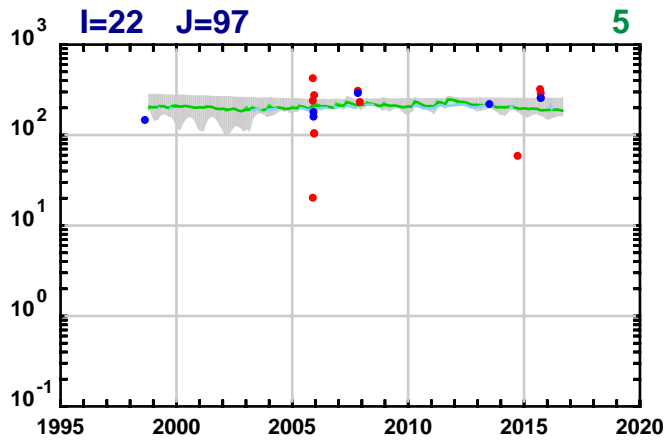
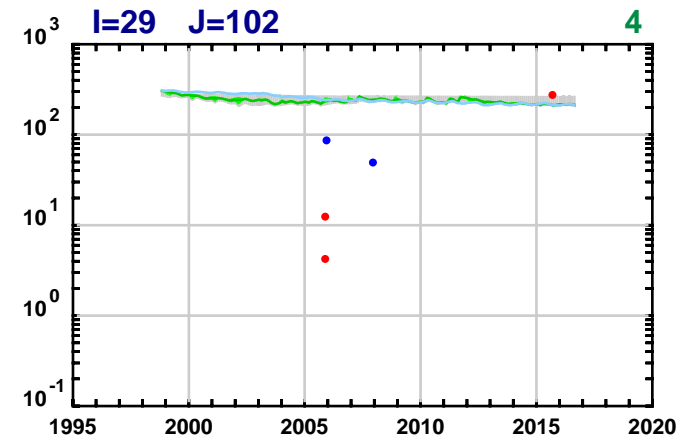
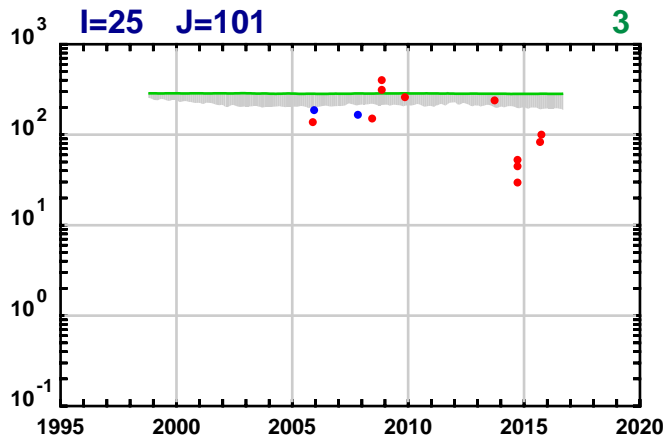
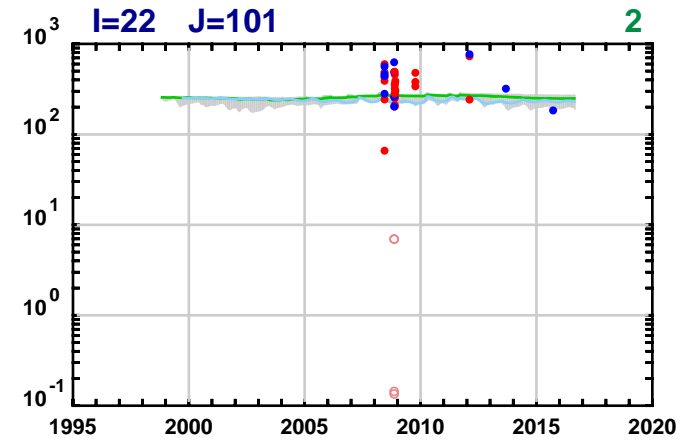
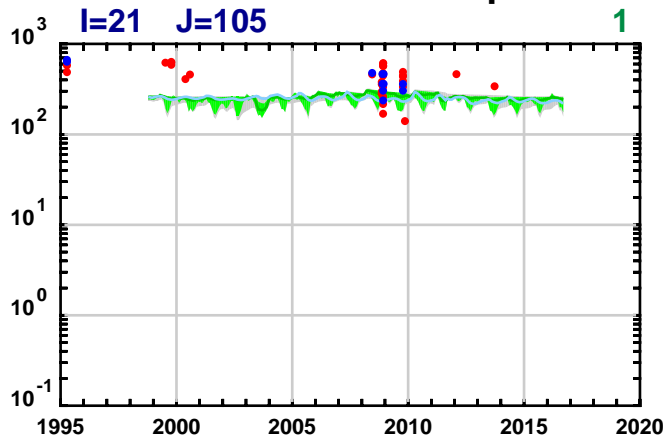
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin ppt



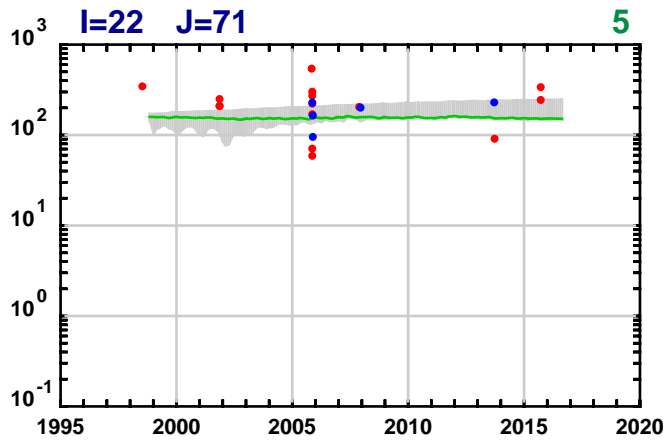
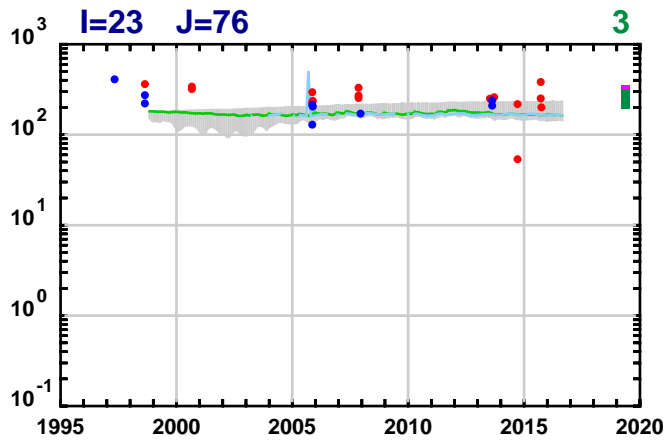
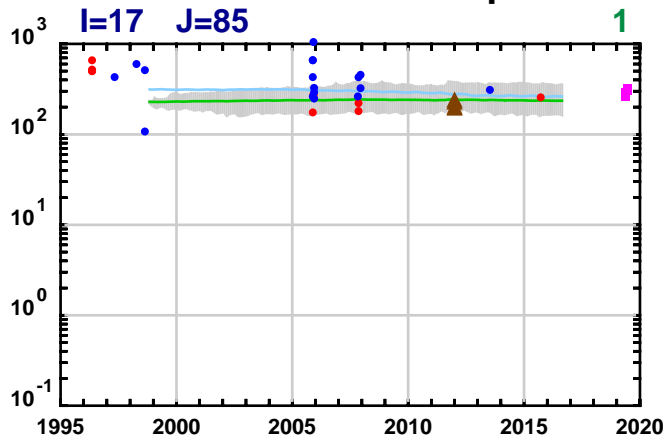
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

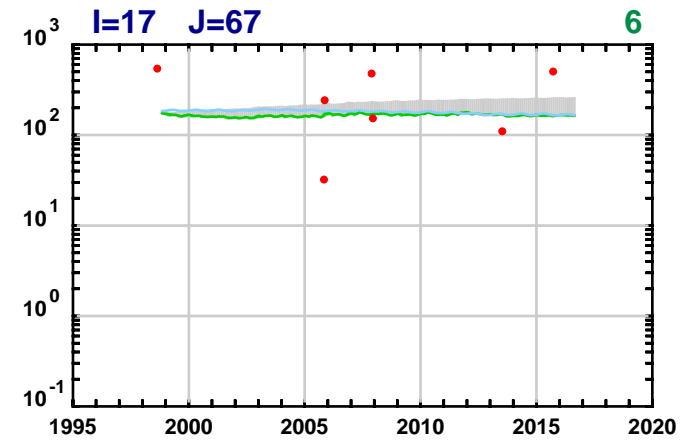
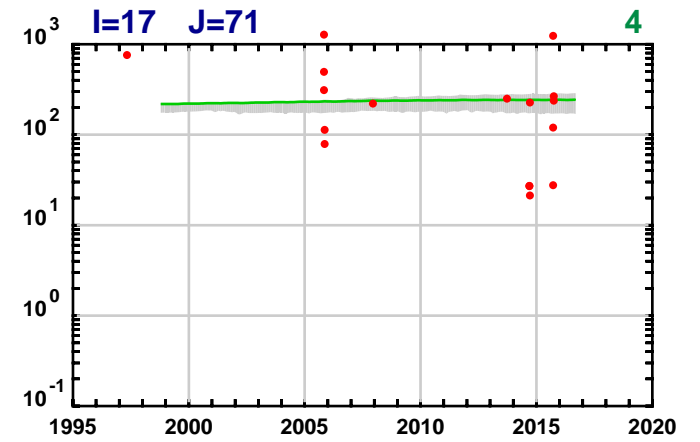
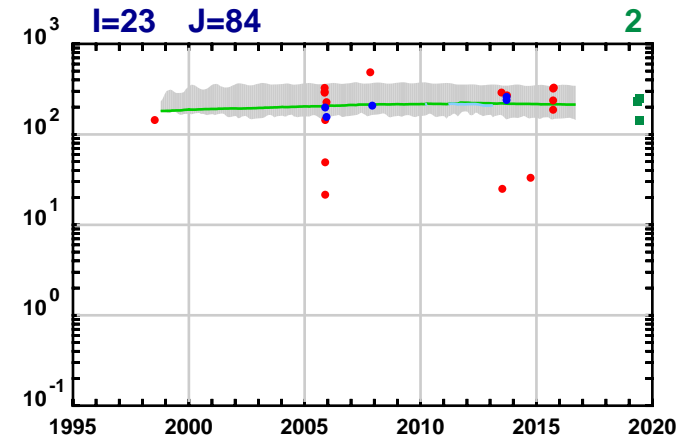
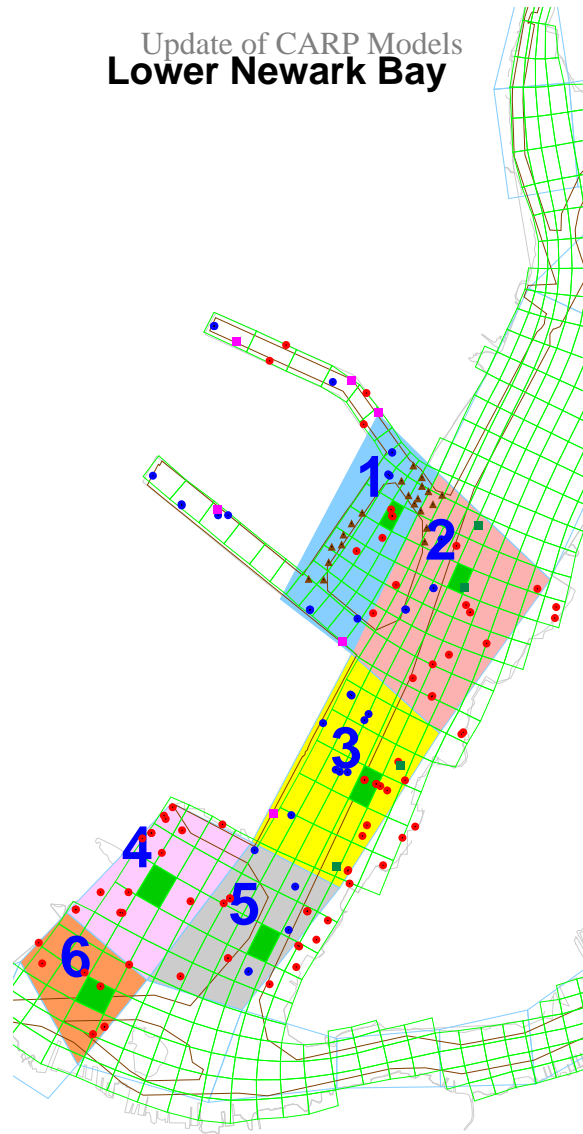
● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin ppt



## Update of CARP Models Lower Newark Bay



RUN18\_S3

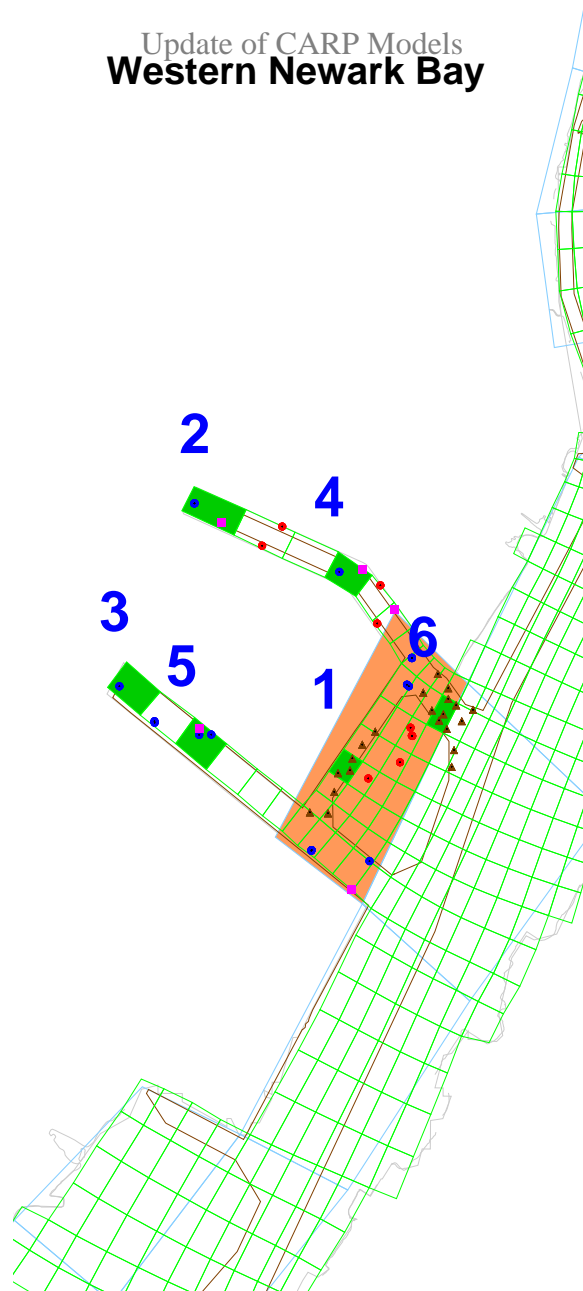
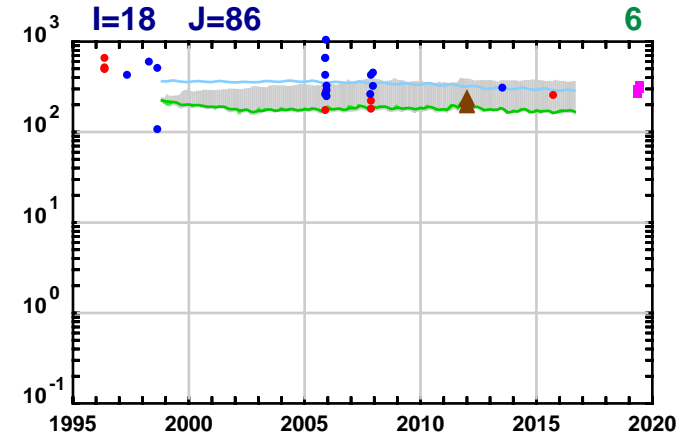
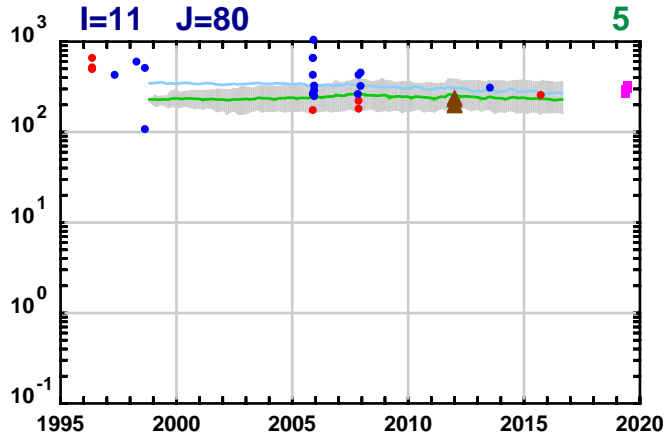
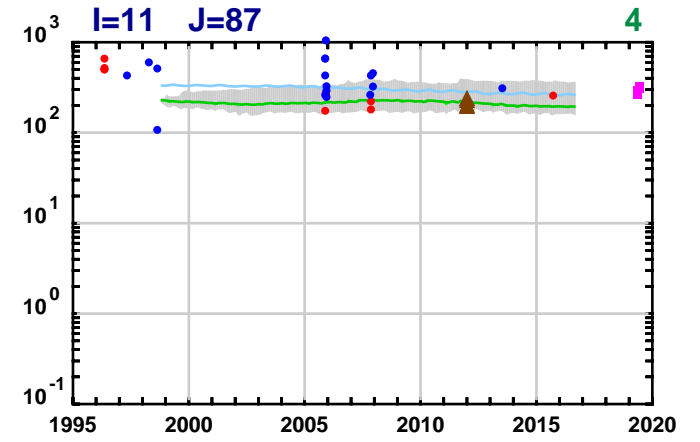
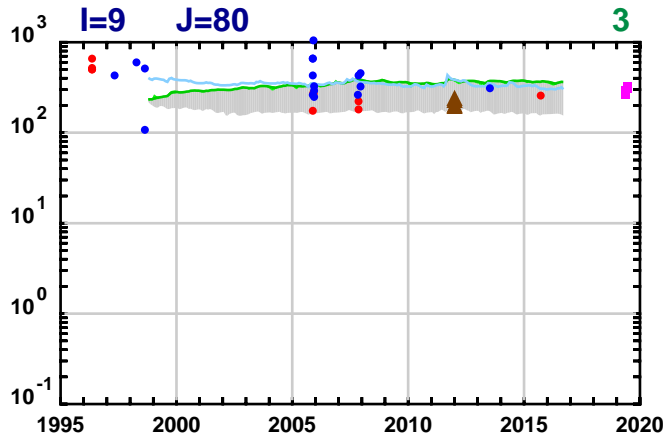
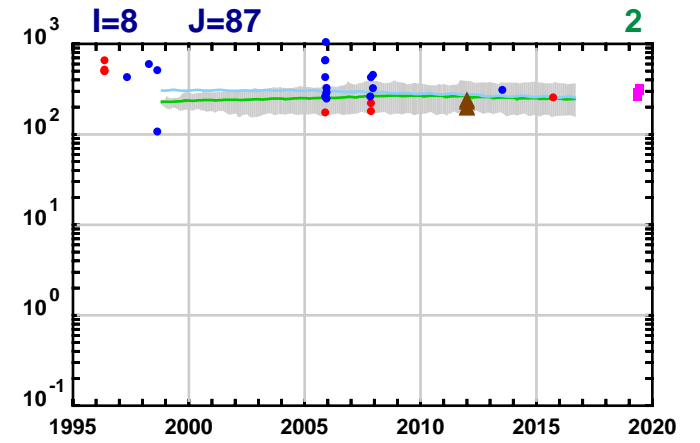
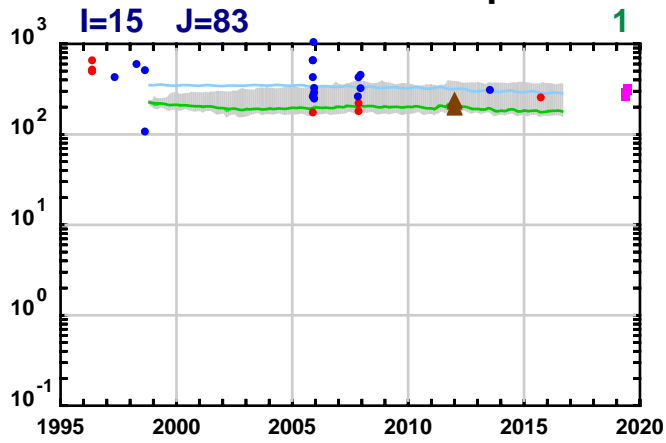
Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin ppt



RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

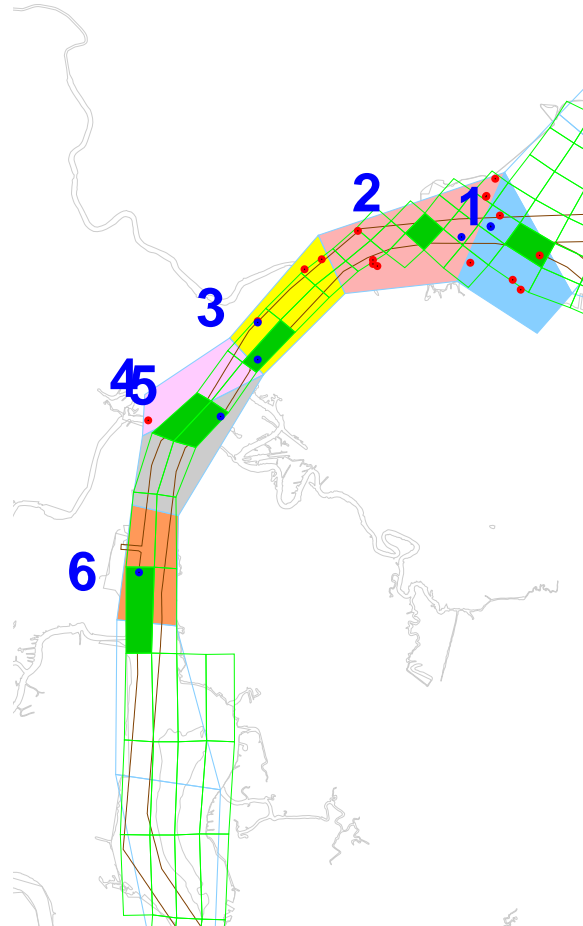
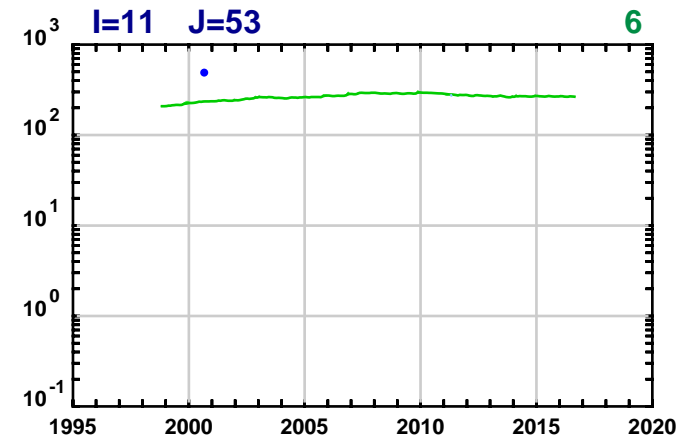
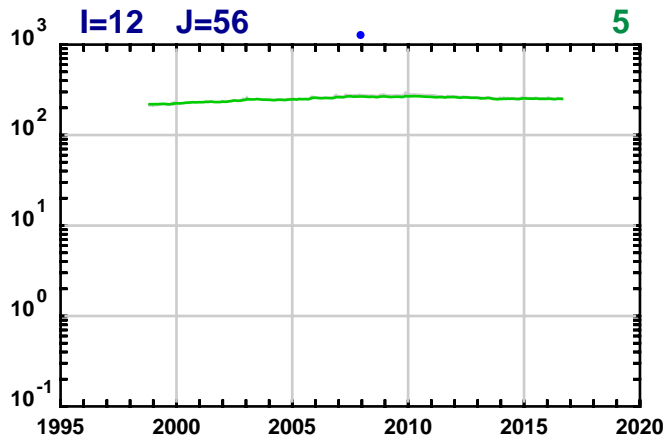
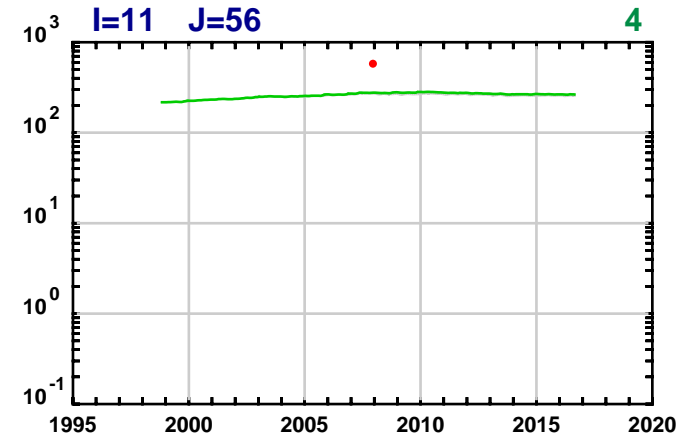
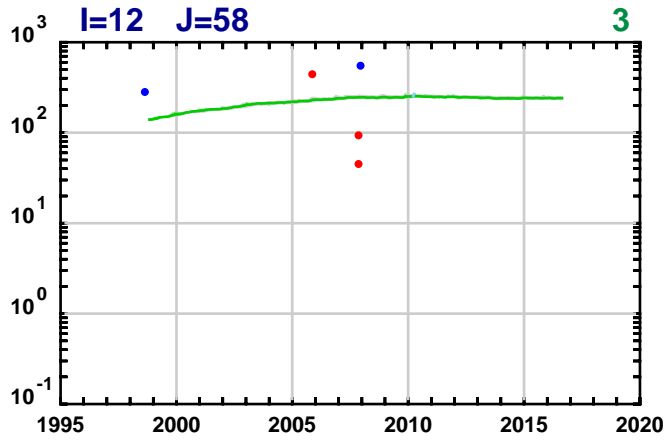
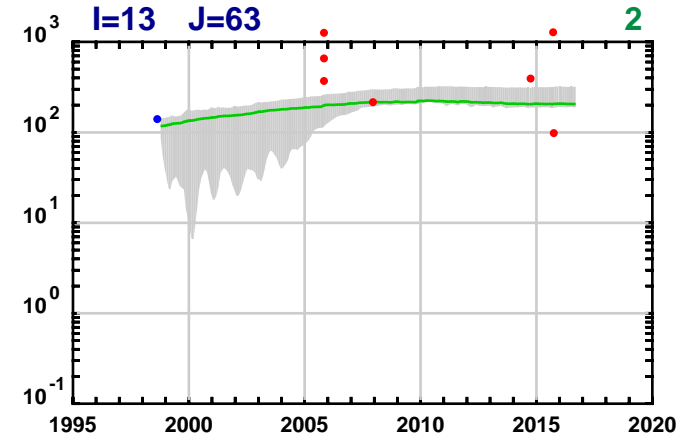
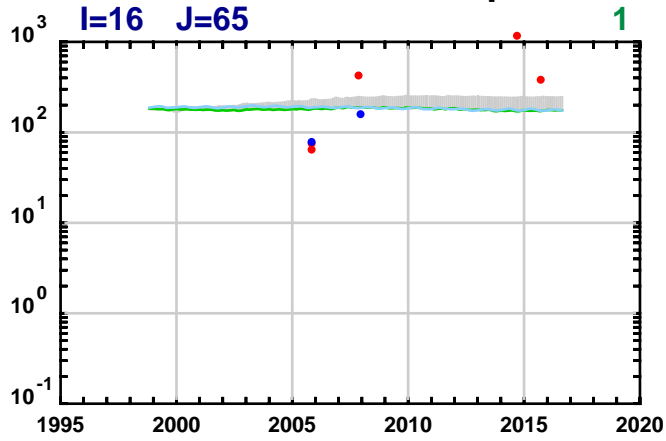
● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin ppt



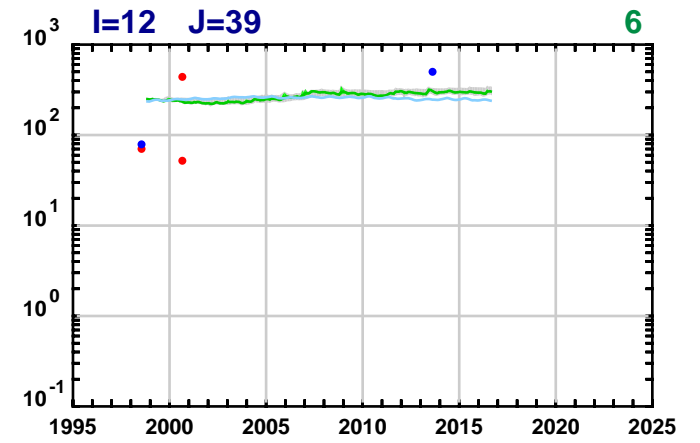
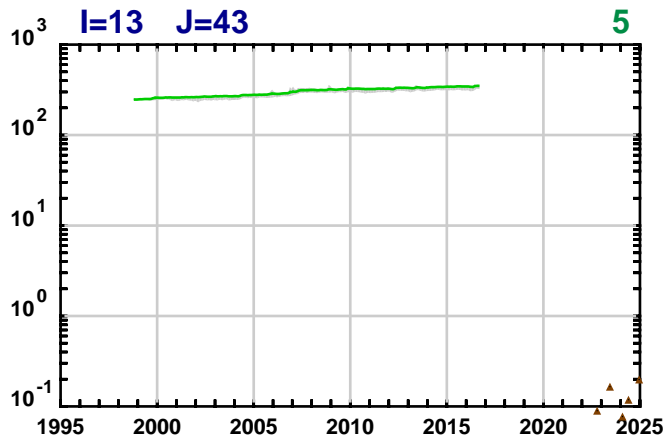
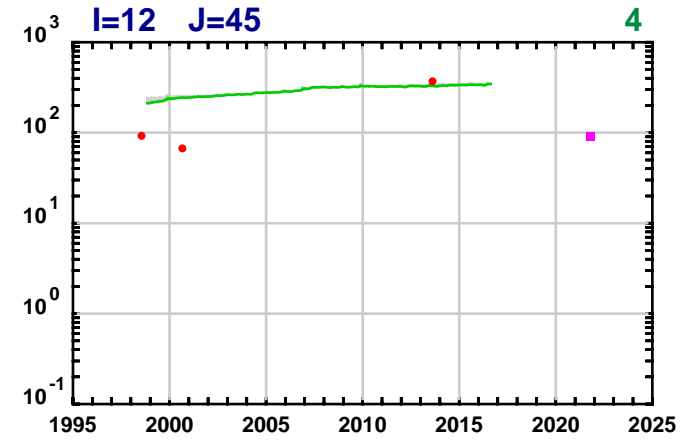
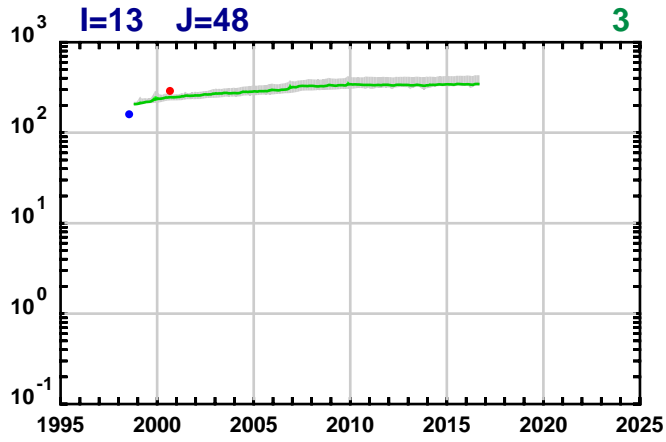
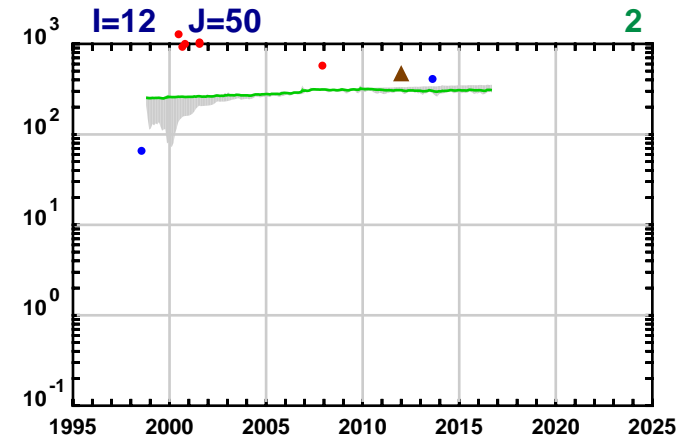
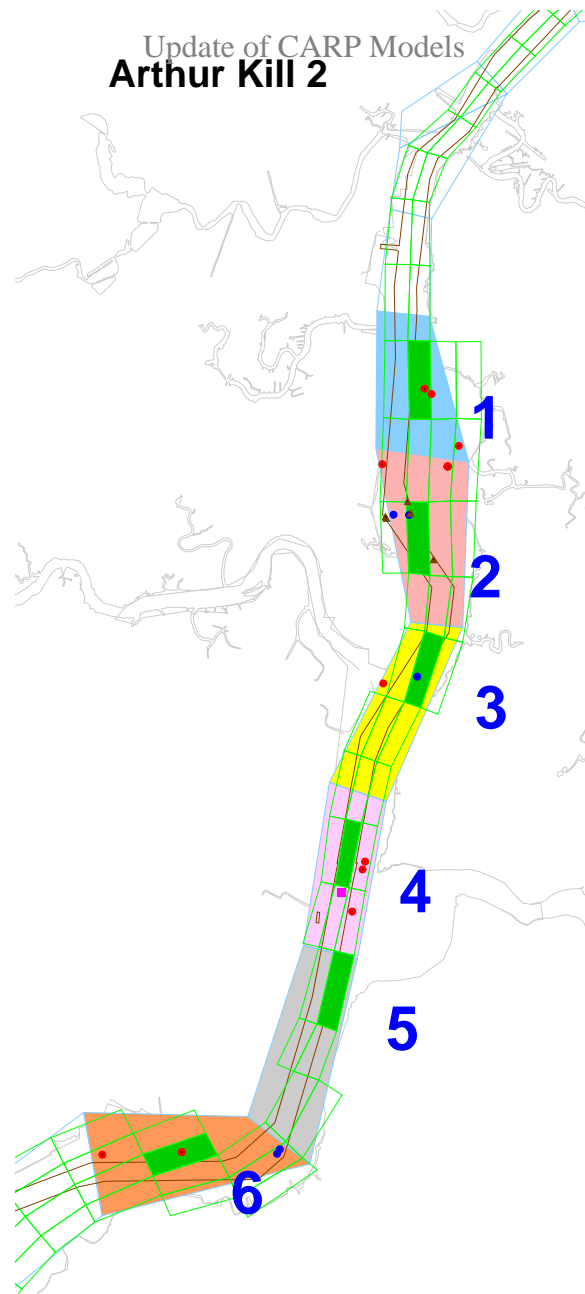
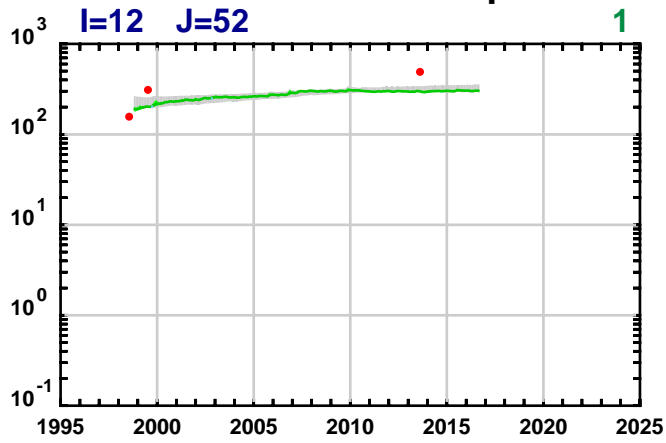
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin ppt

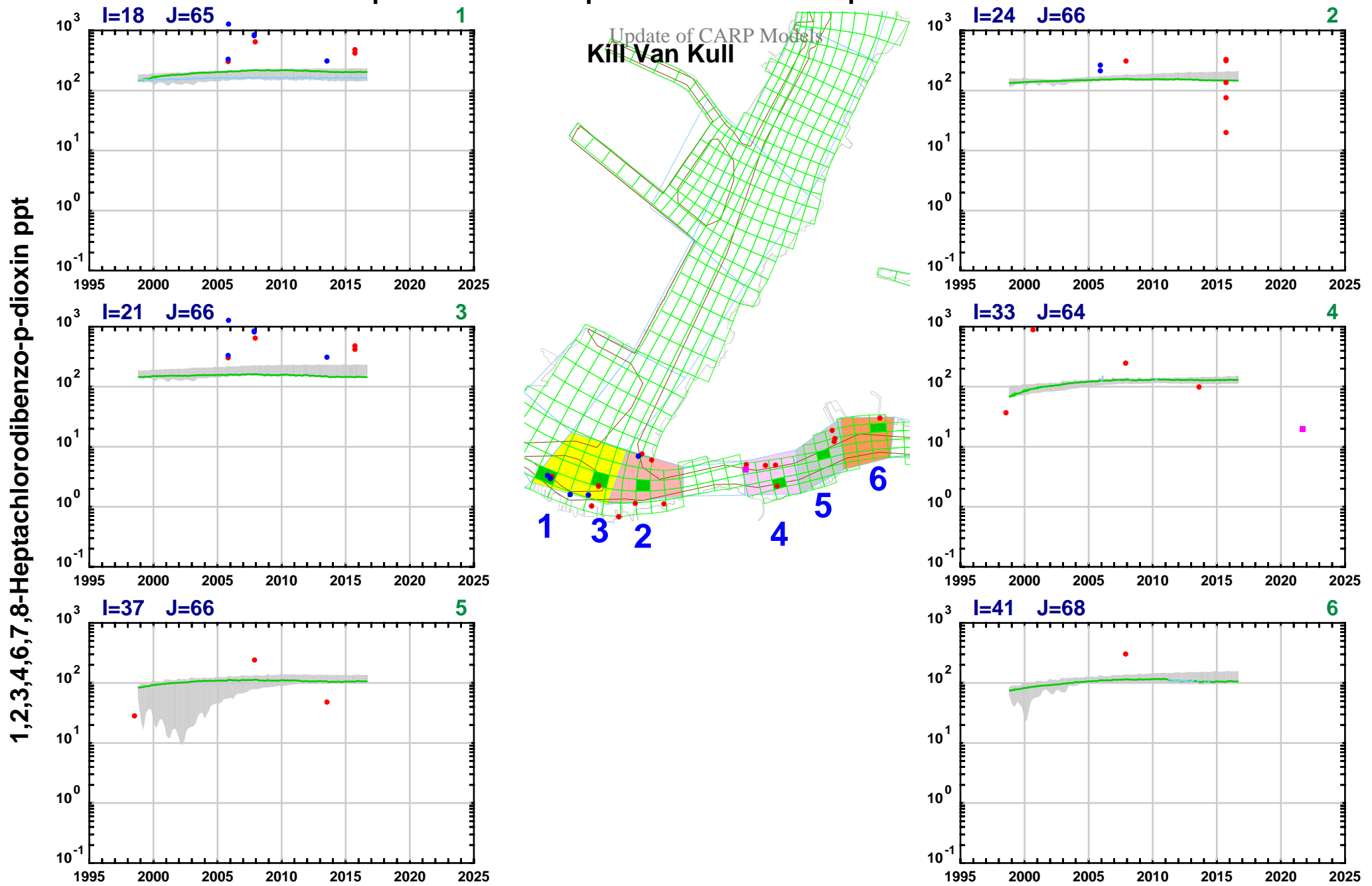


RUN18\_S3

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



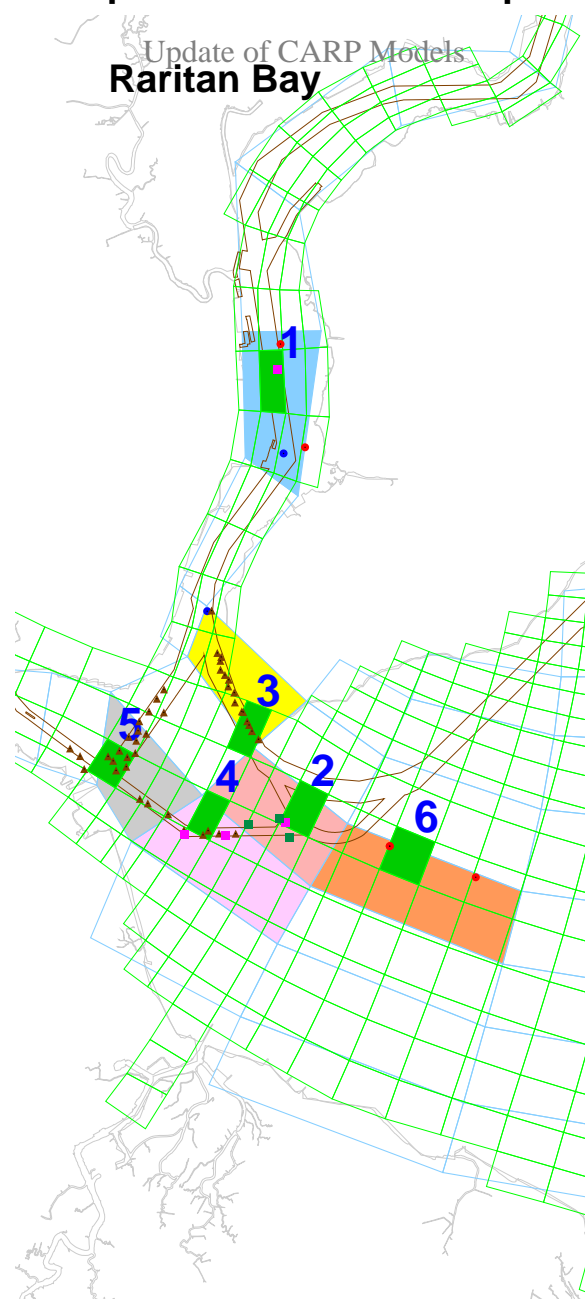
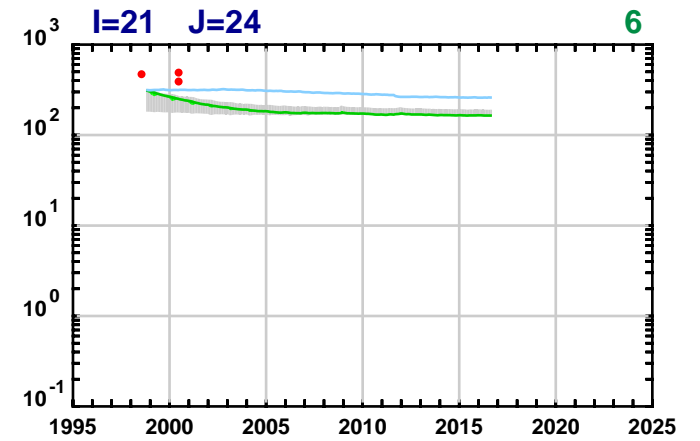
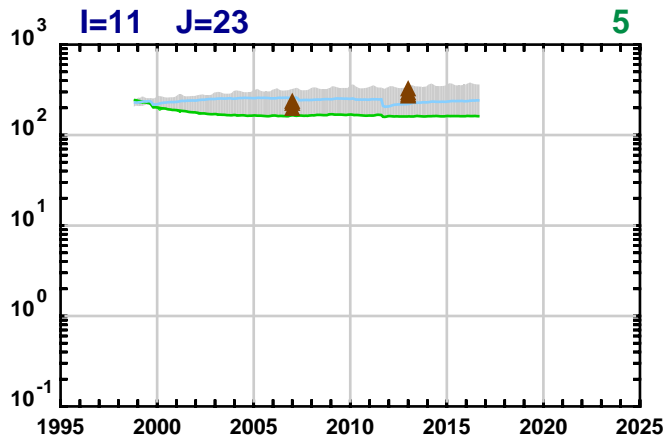
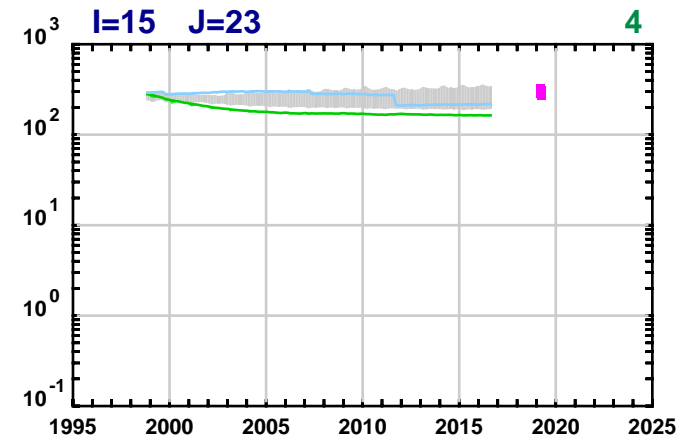
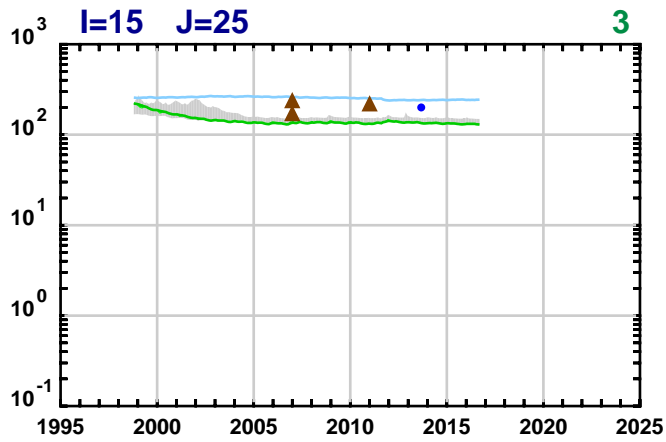
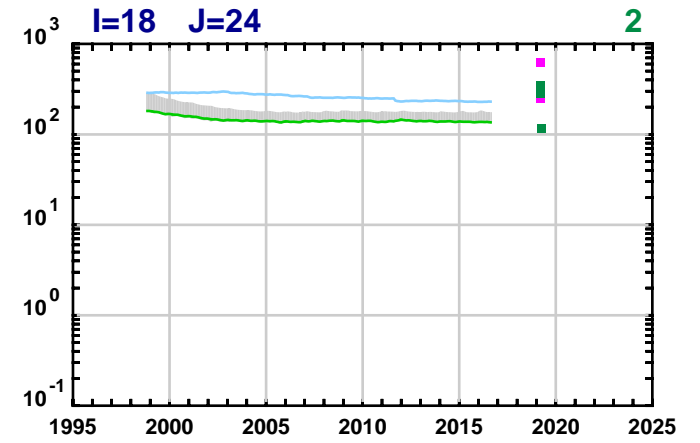
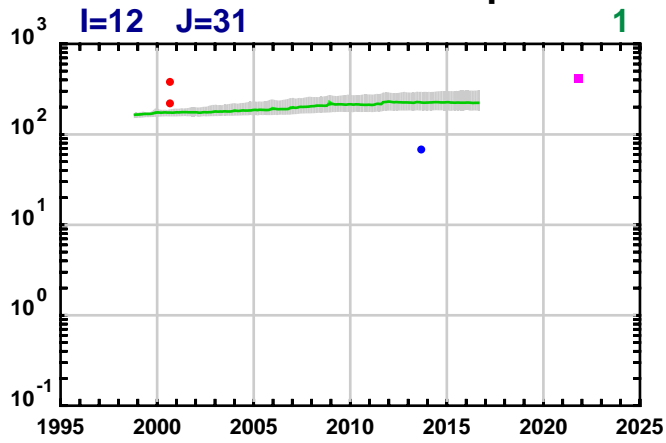
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin ppt

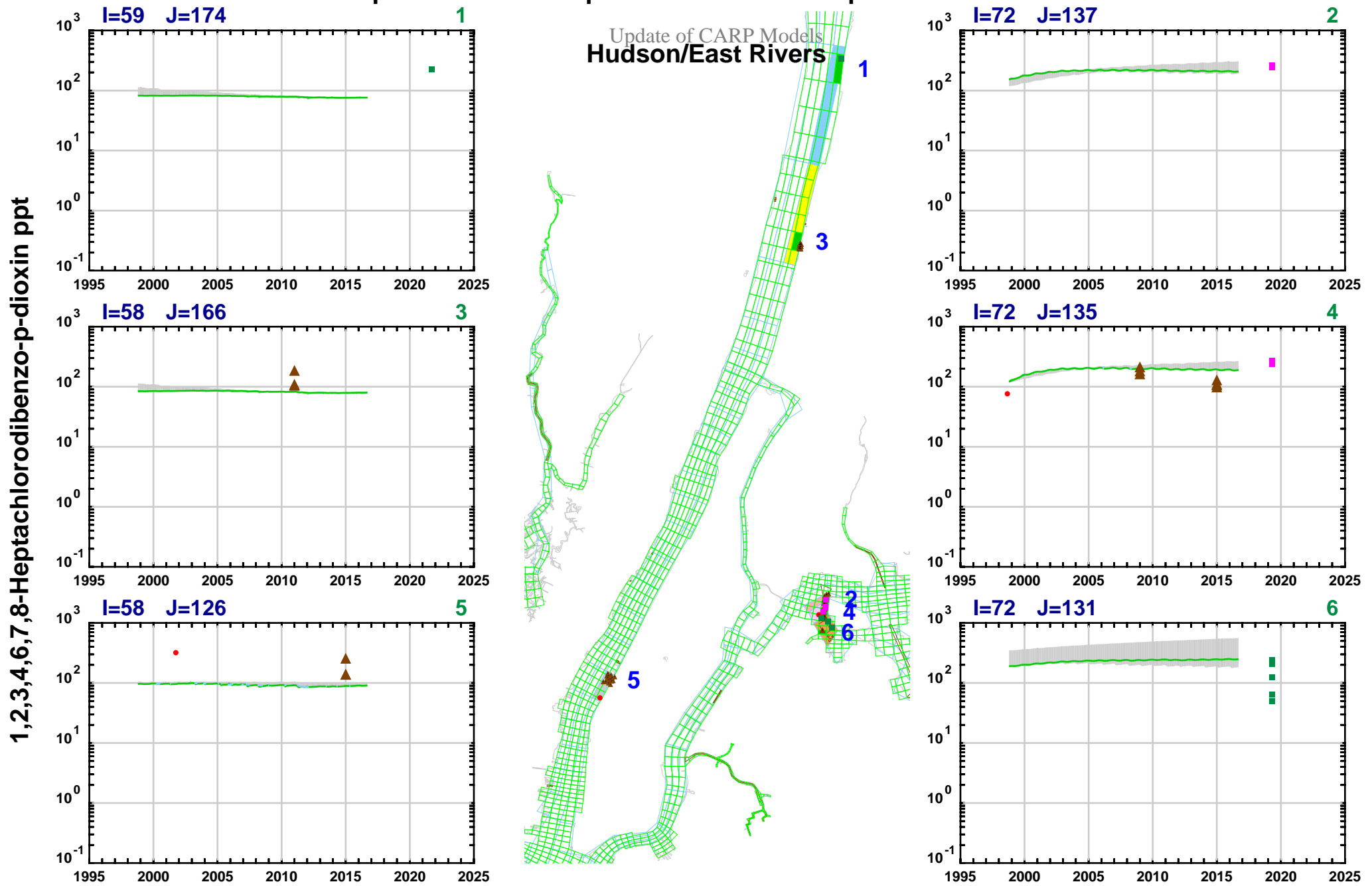


RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

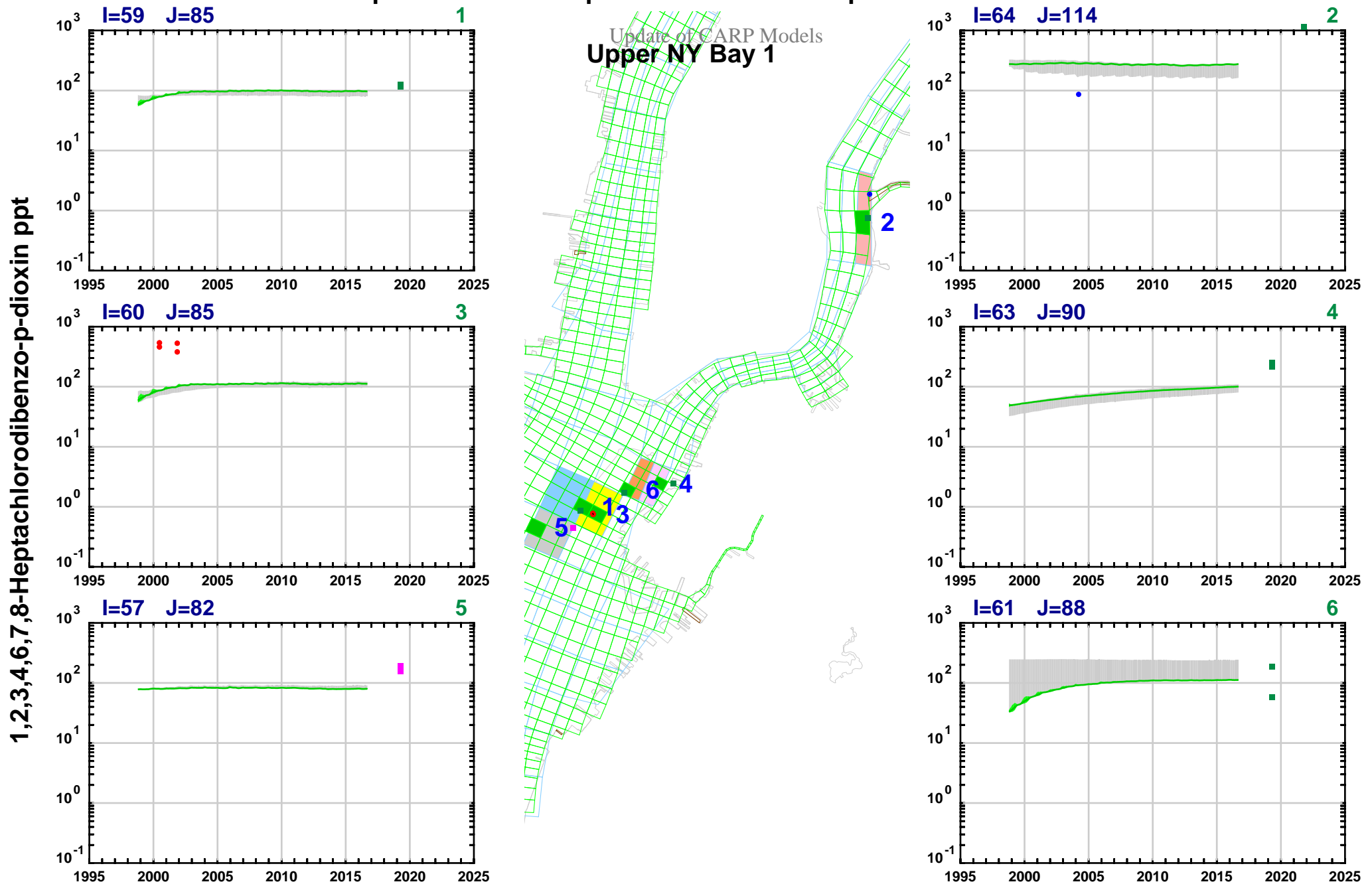


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



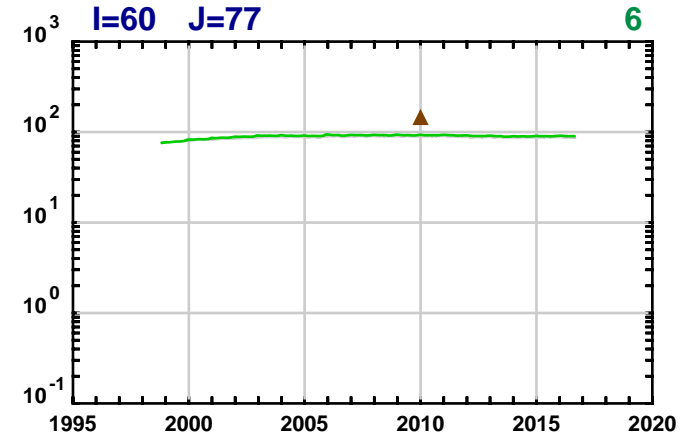
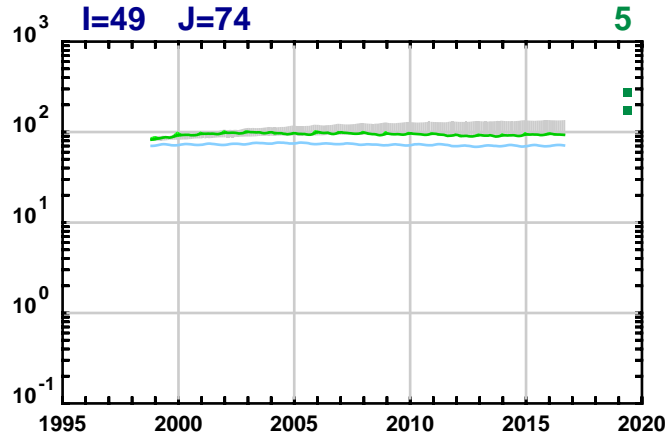
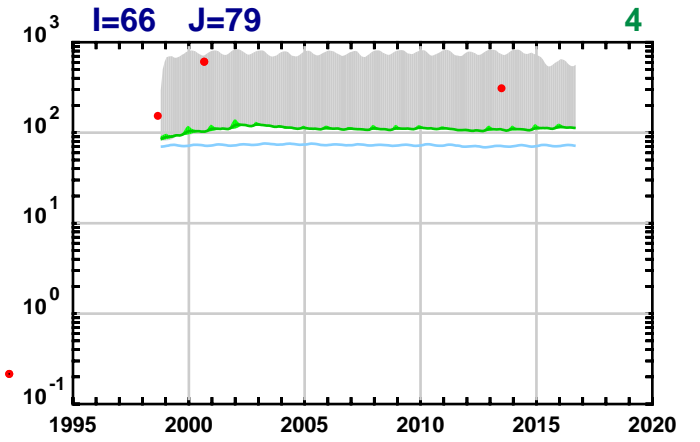
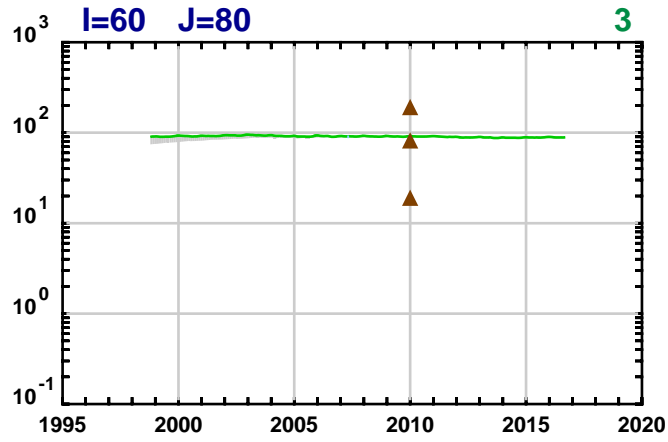
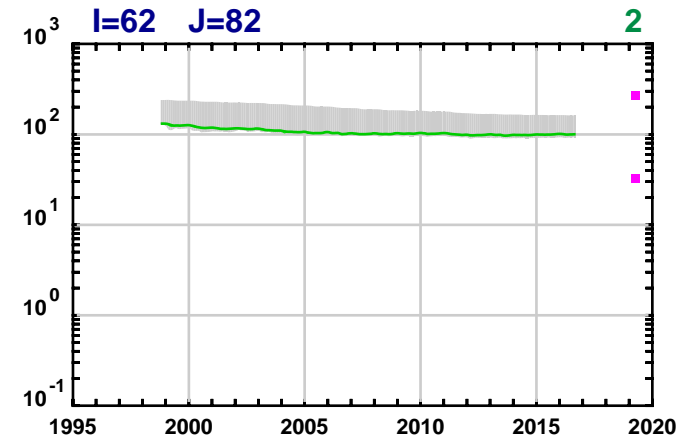
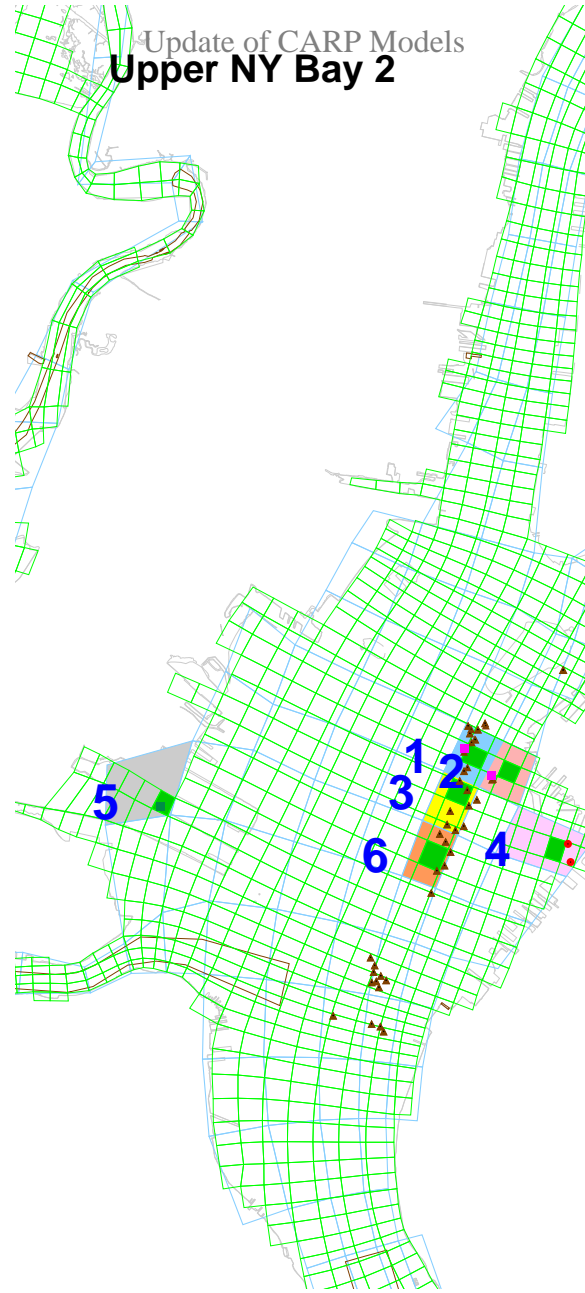
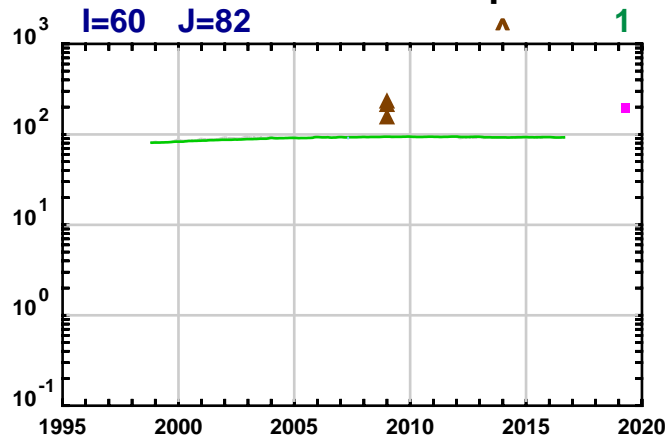
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin ppt



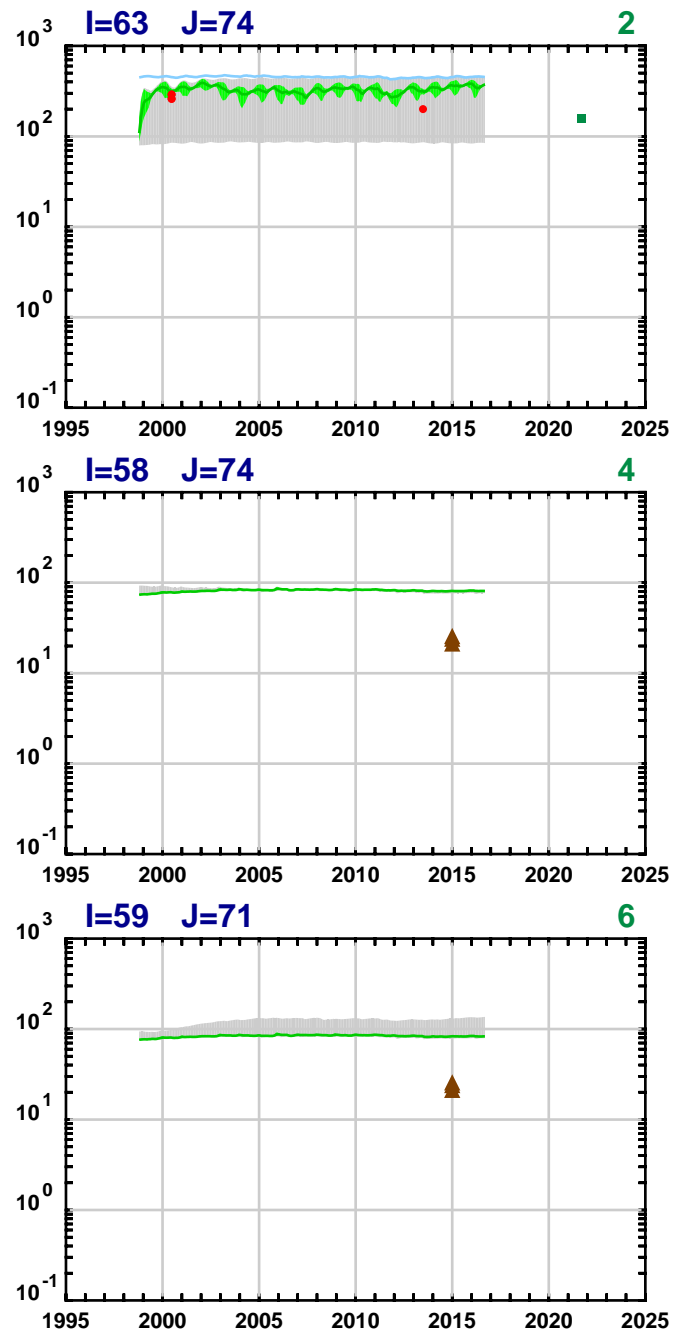
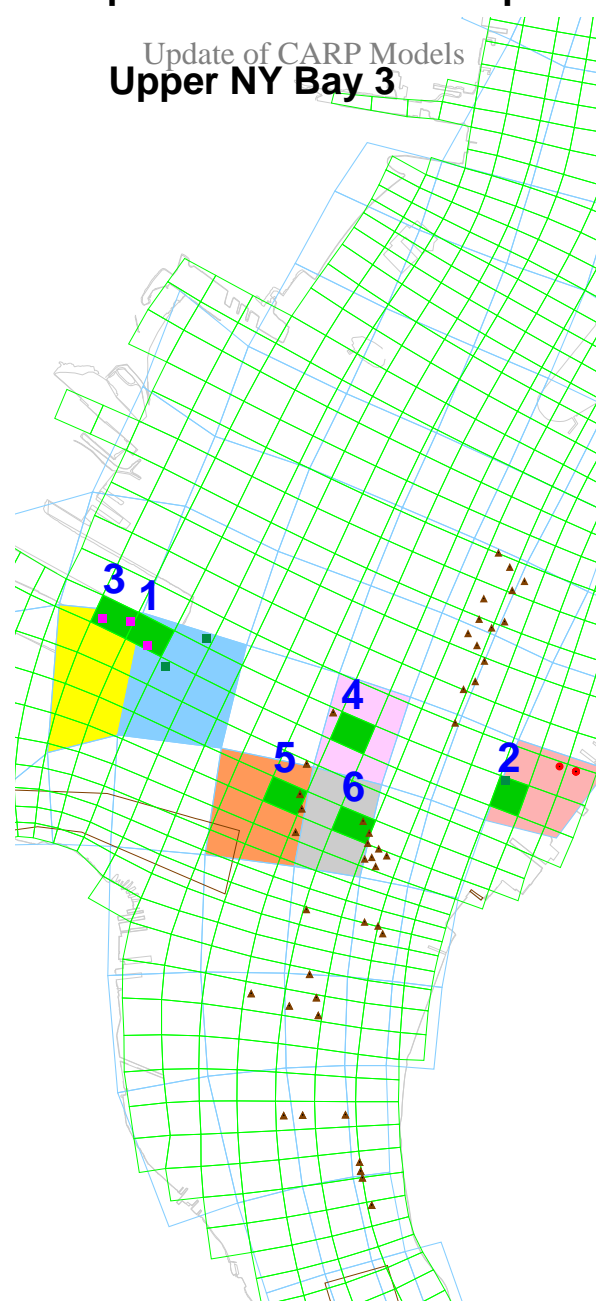
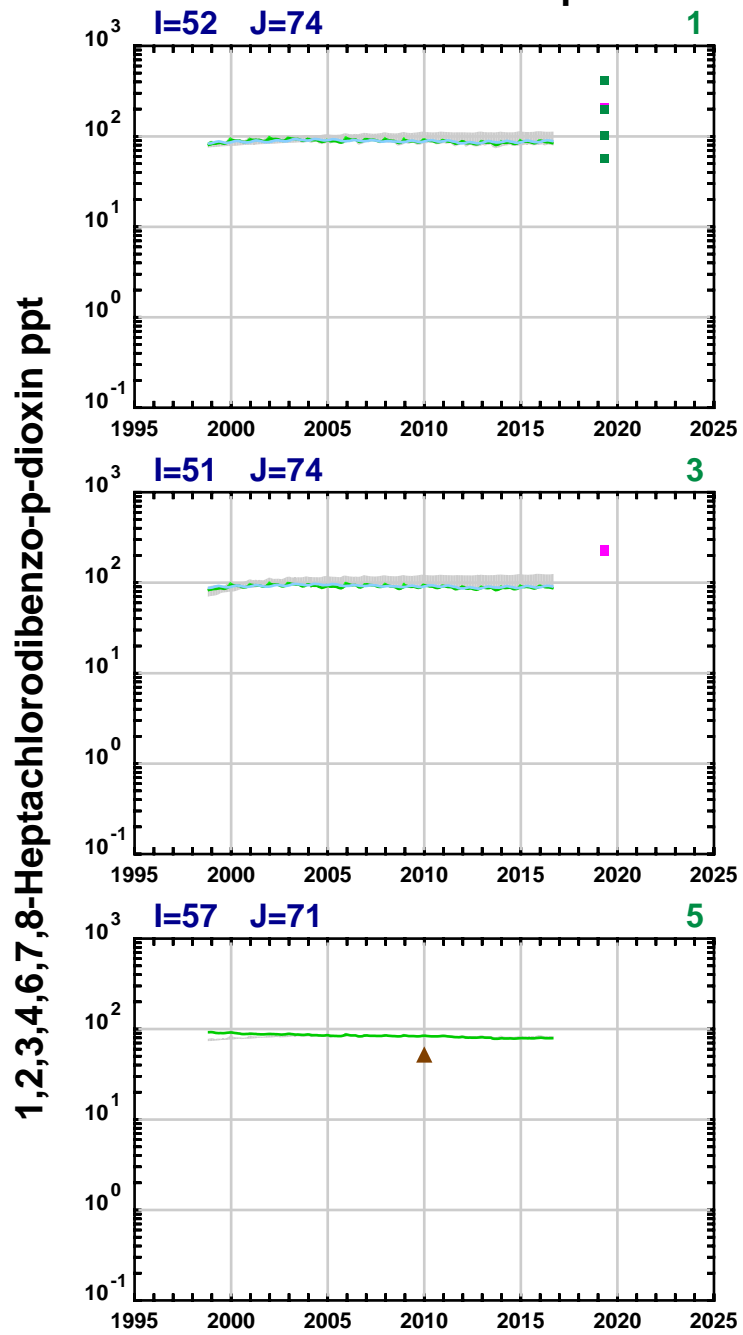
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

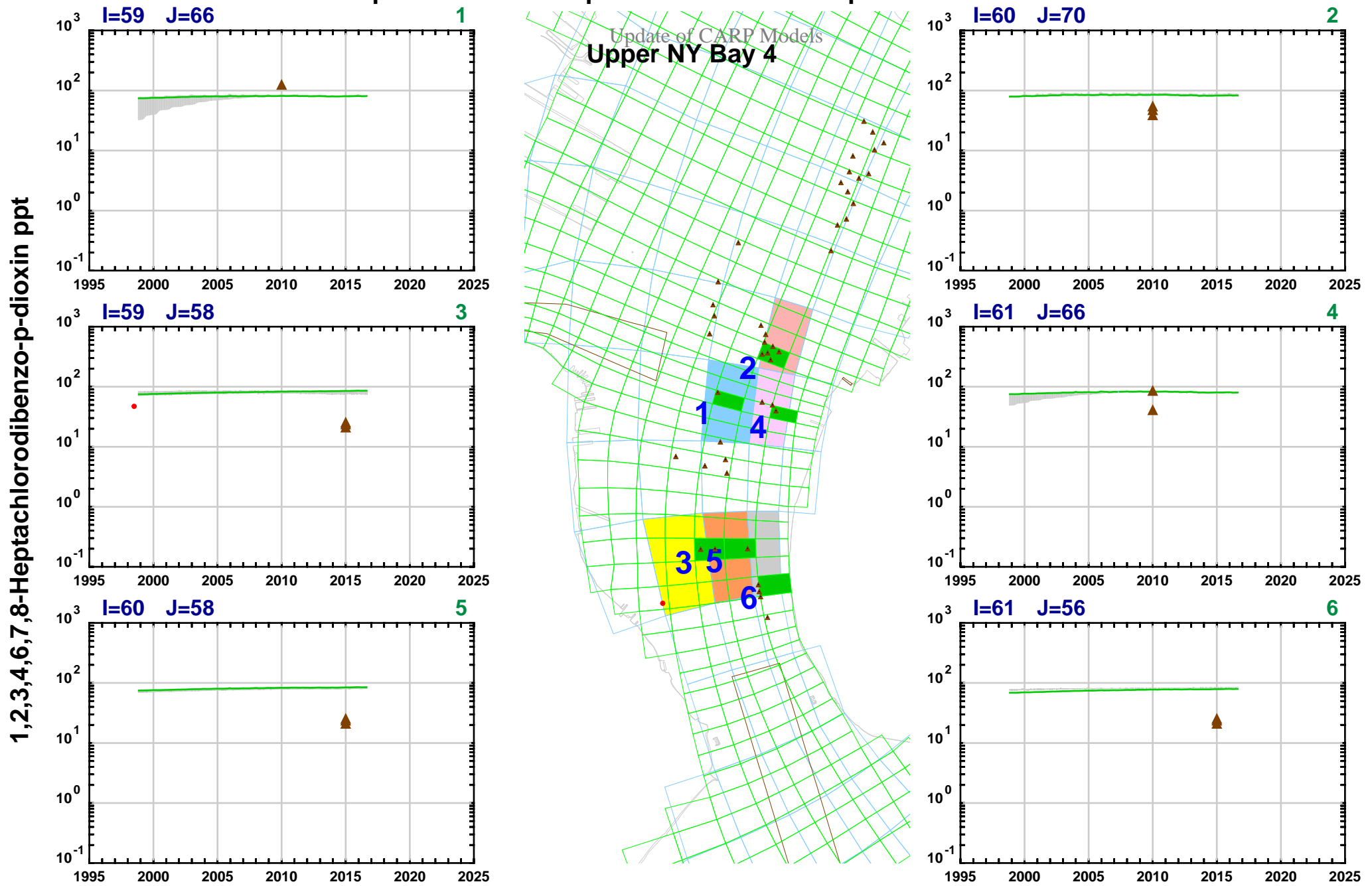


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



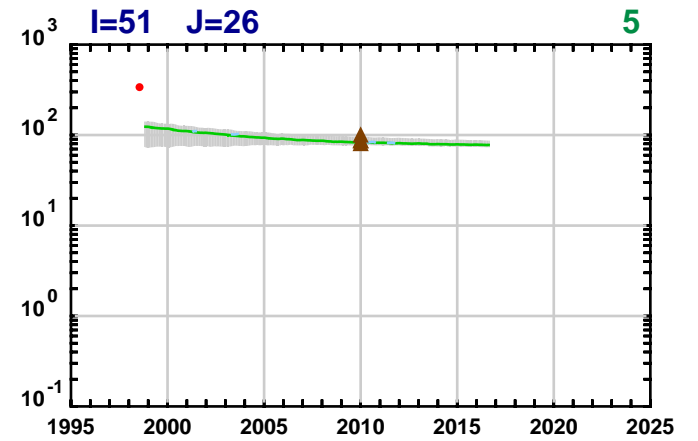
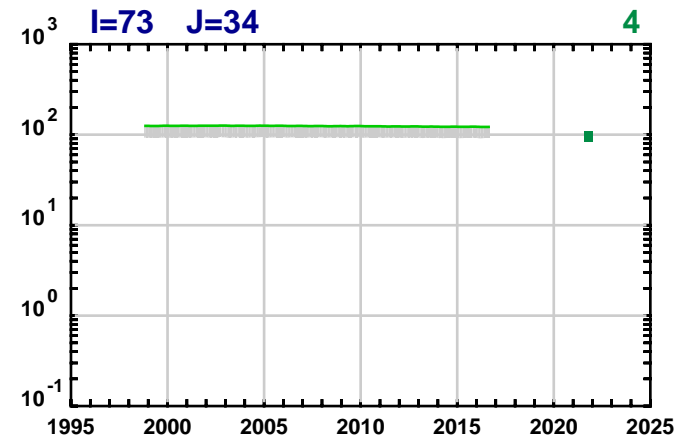
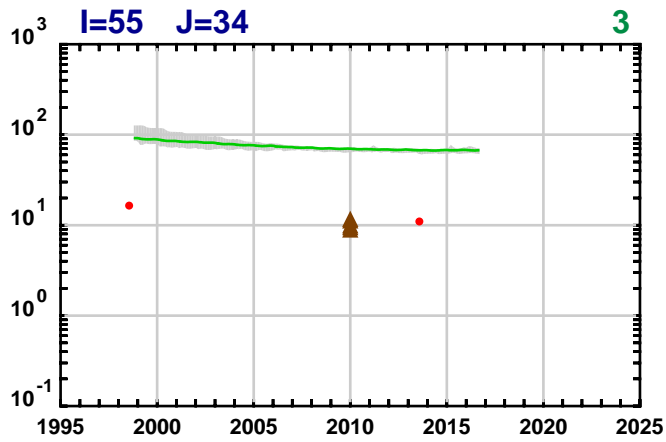
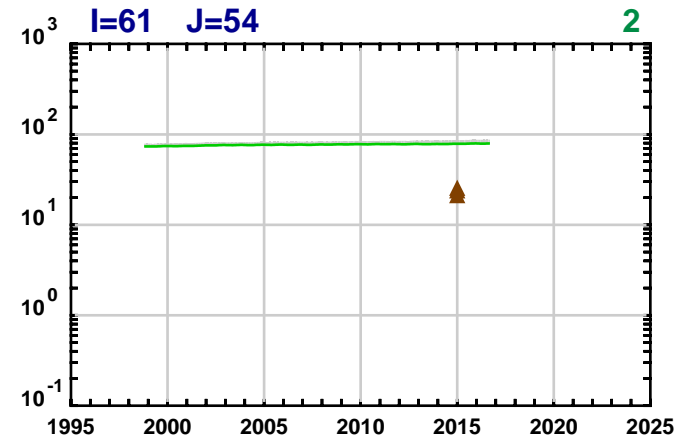
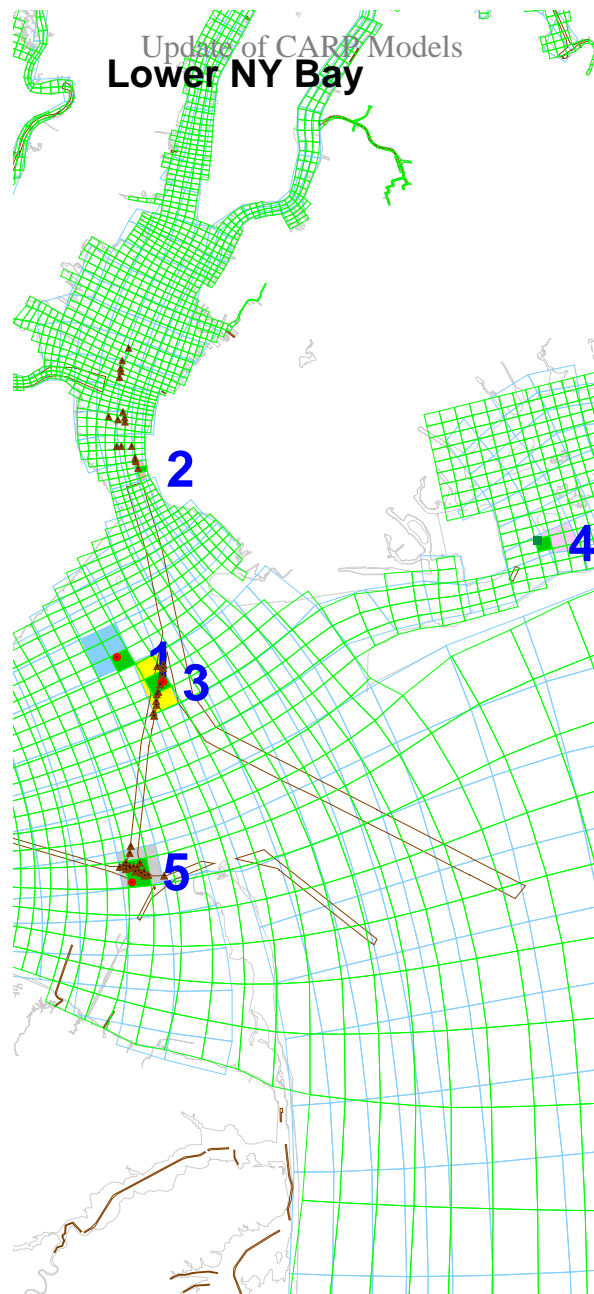
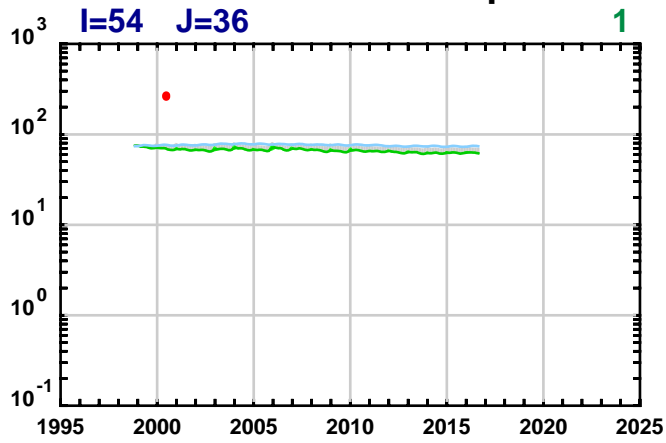
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin ppt



RUN18\_S3

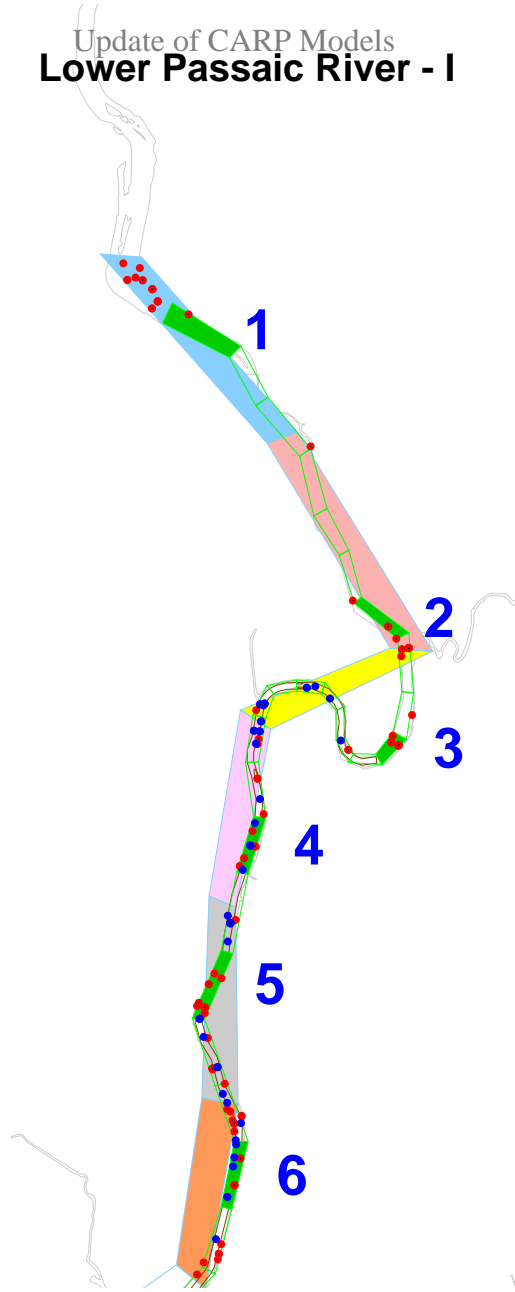
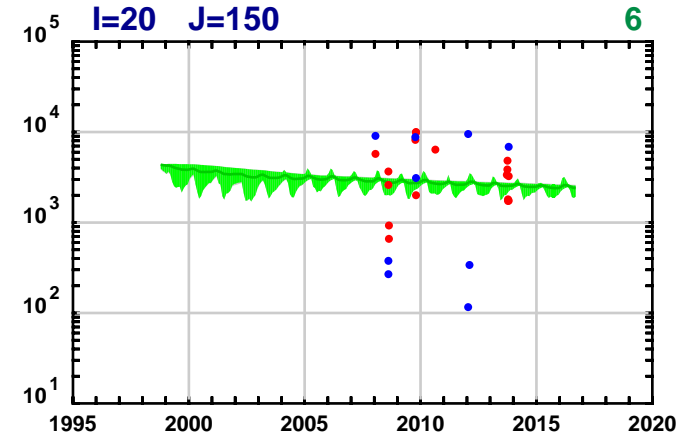
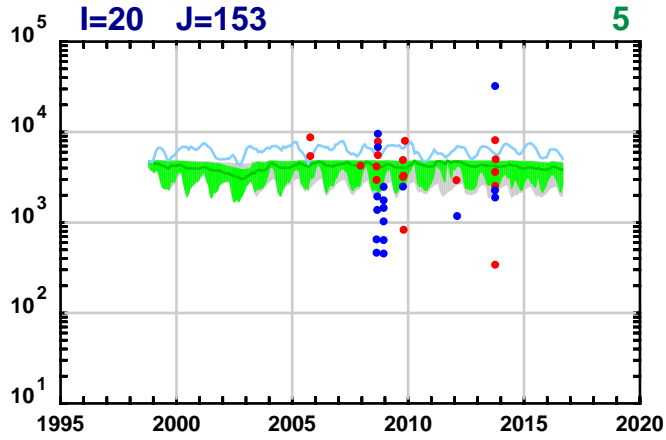
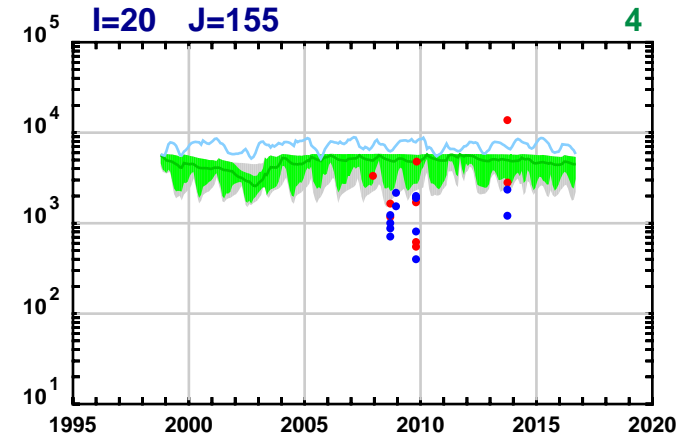
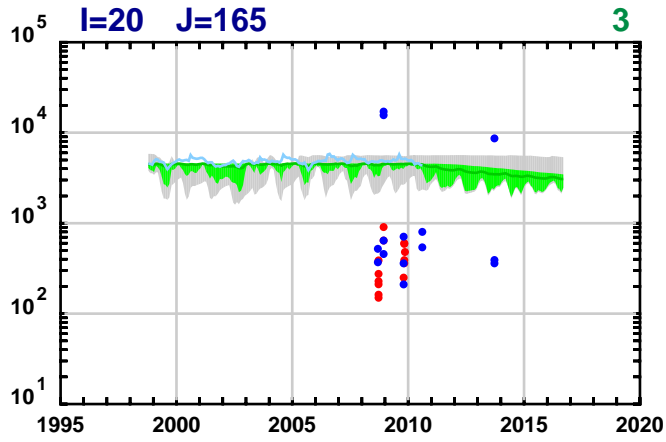
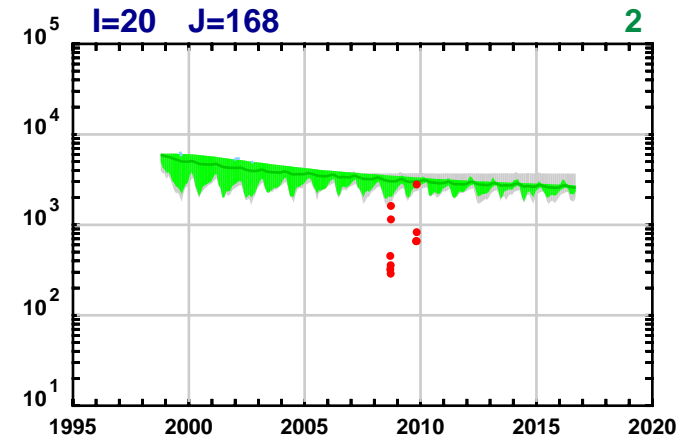
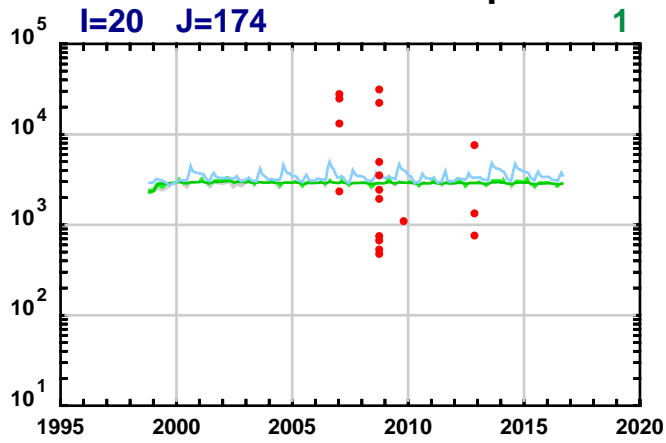
Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Lower Passaic River - I

Octachlorodibenzo-p-dioxin ppt

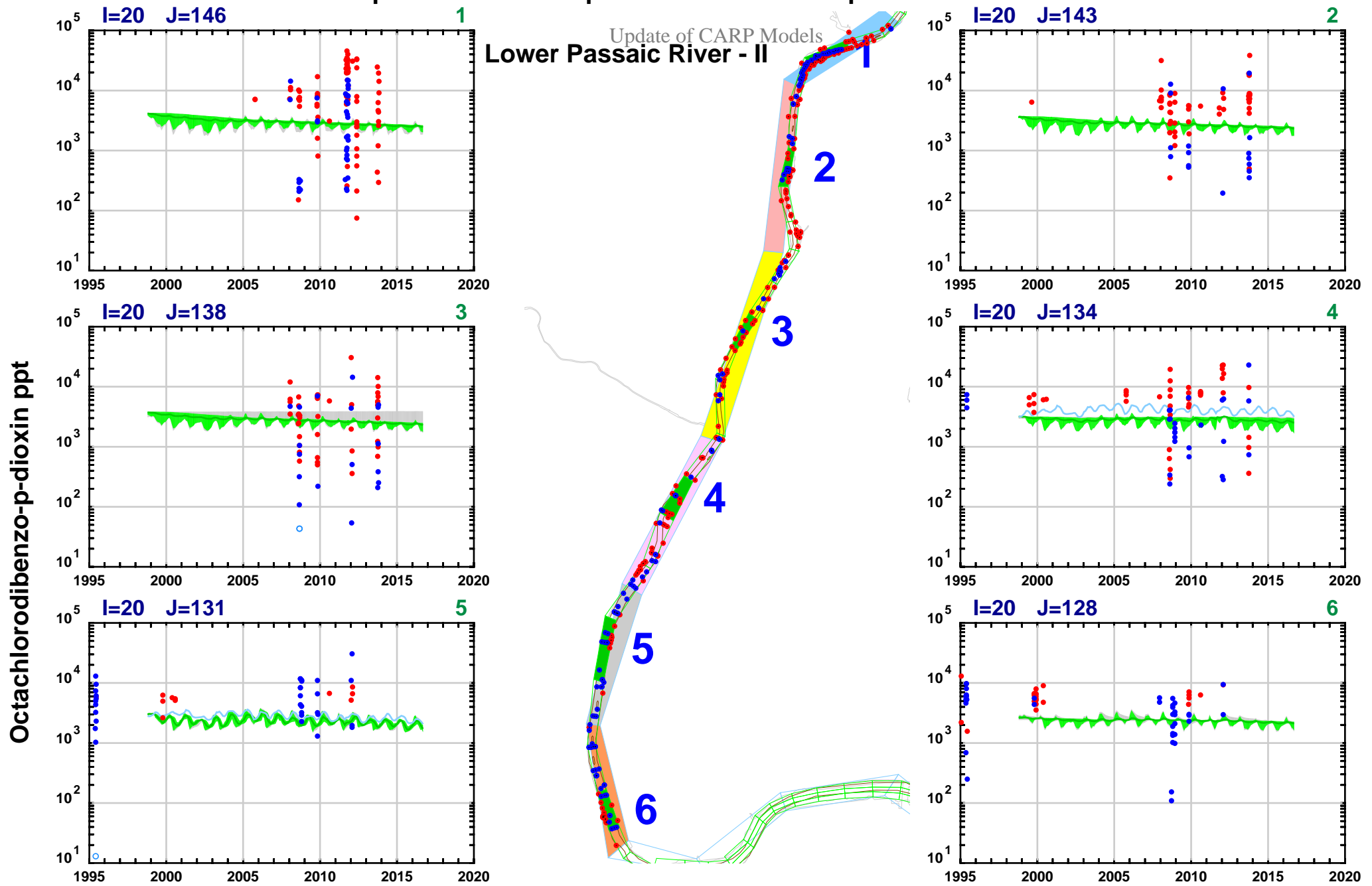


RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

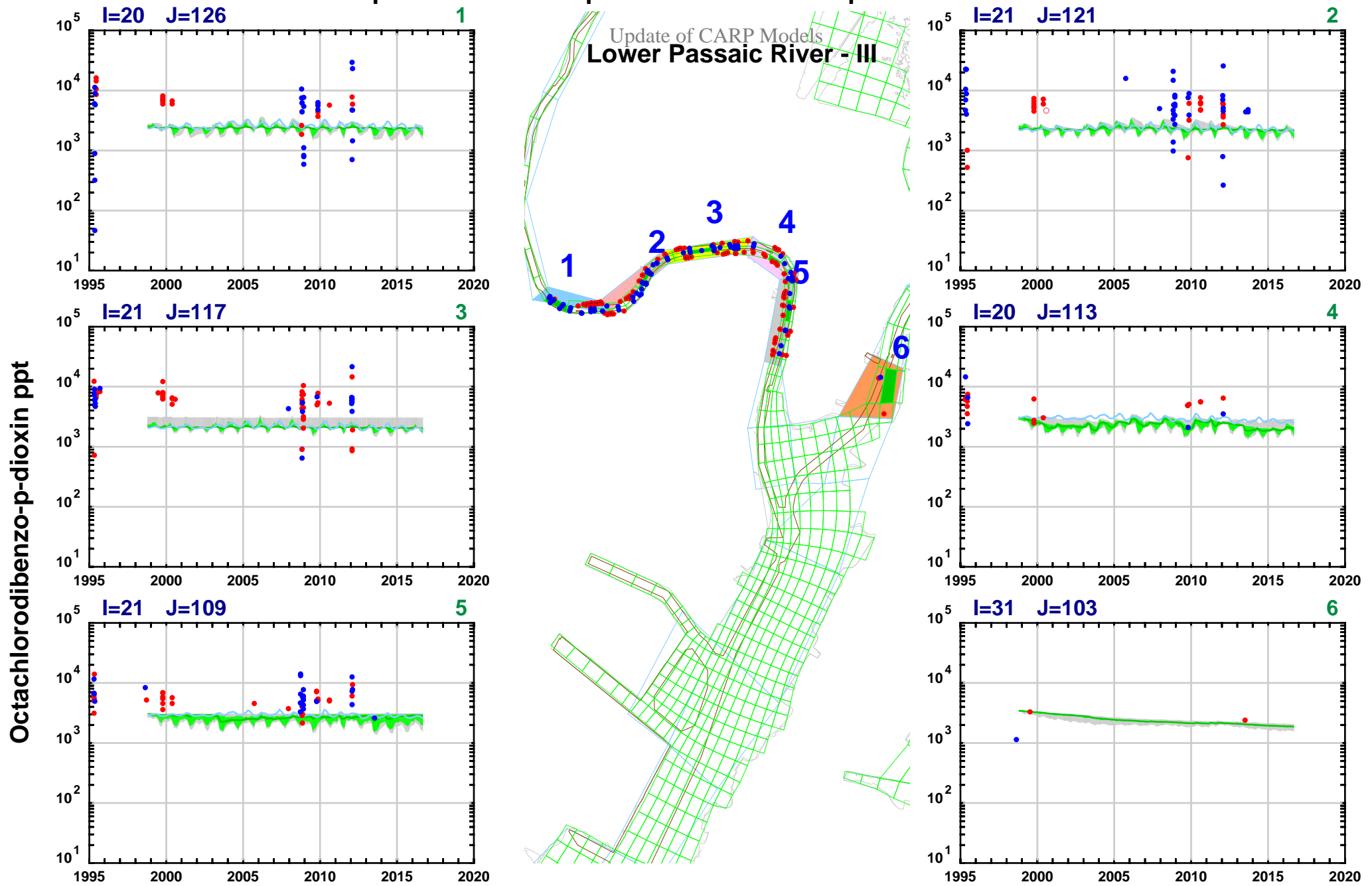
● In-channel data    ● Off-channel data    ▲ Dredge data  
■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



RUN18\_S3

# Top 15 cm data comparison with model top 10 cm sediment



Update of CARP Models  
Lower Passaic River - III

Octachlorodibenzo-p-dioxin ppt

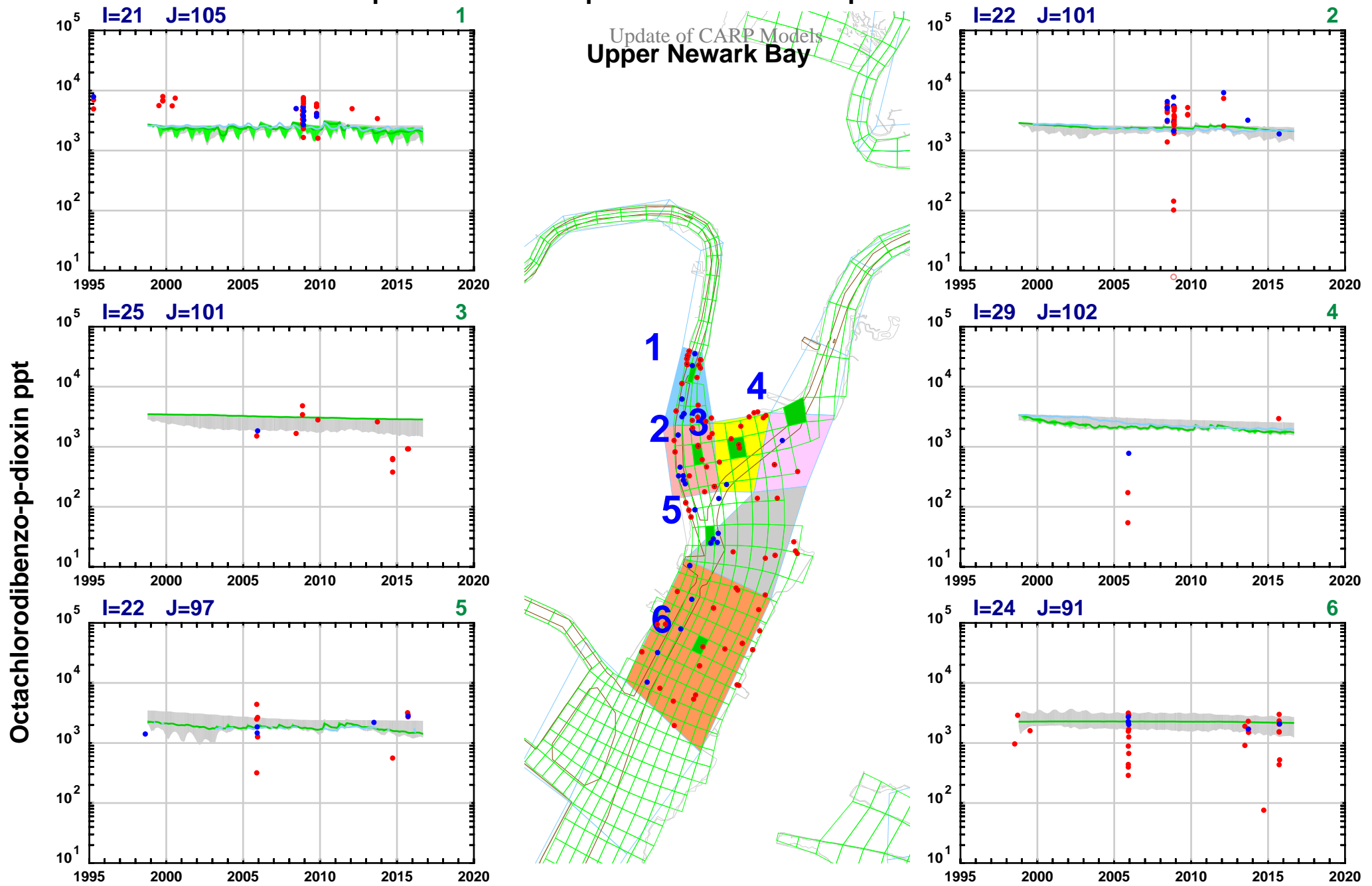
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



Update of CARP Models  
Upper Newark Bay

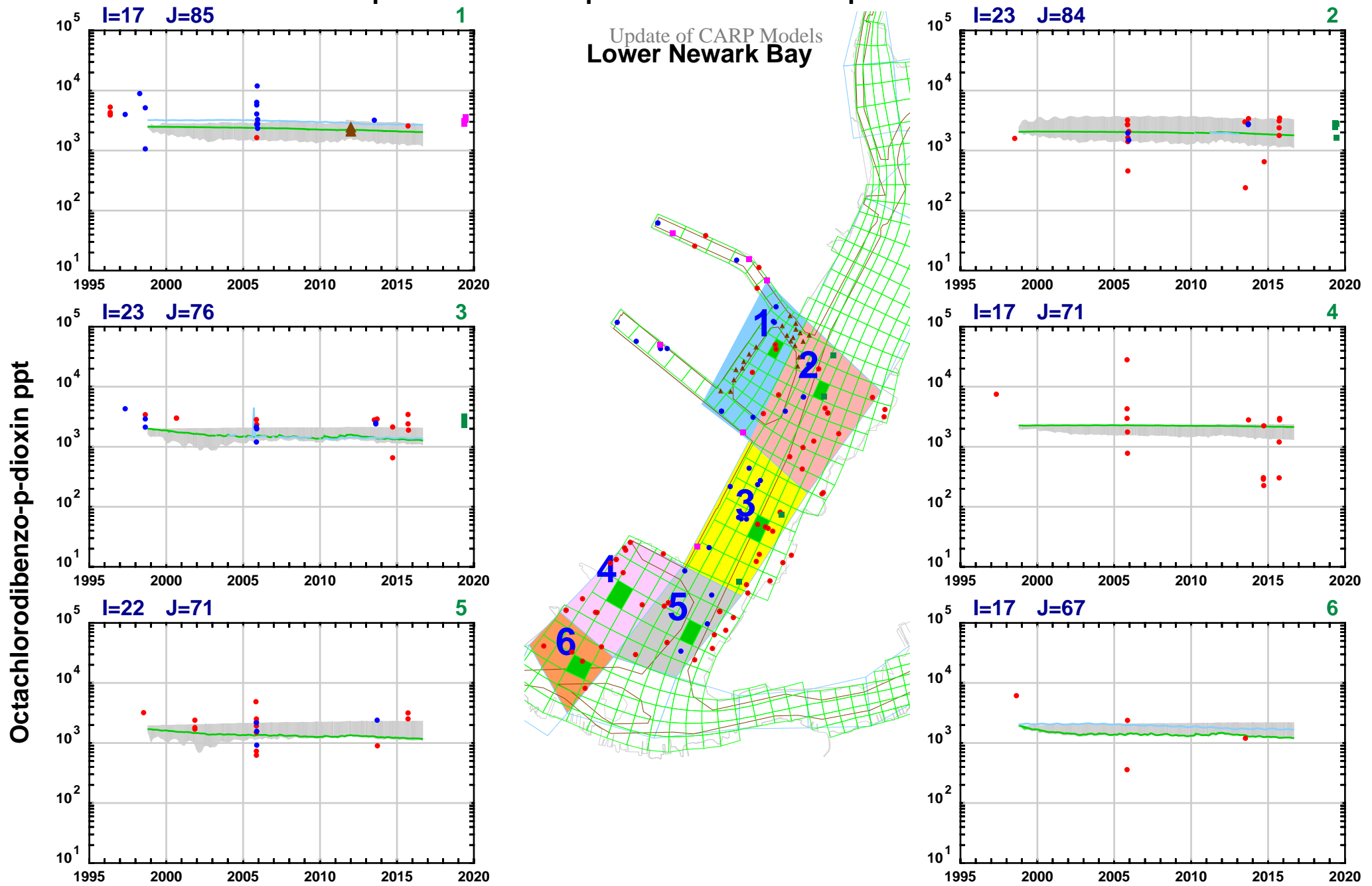
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

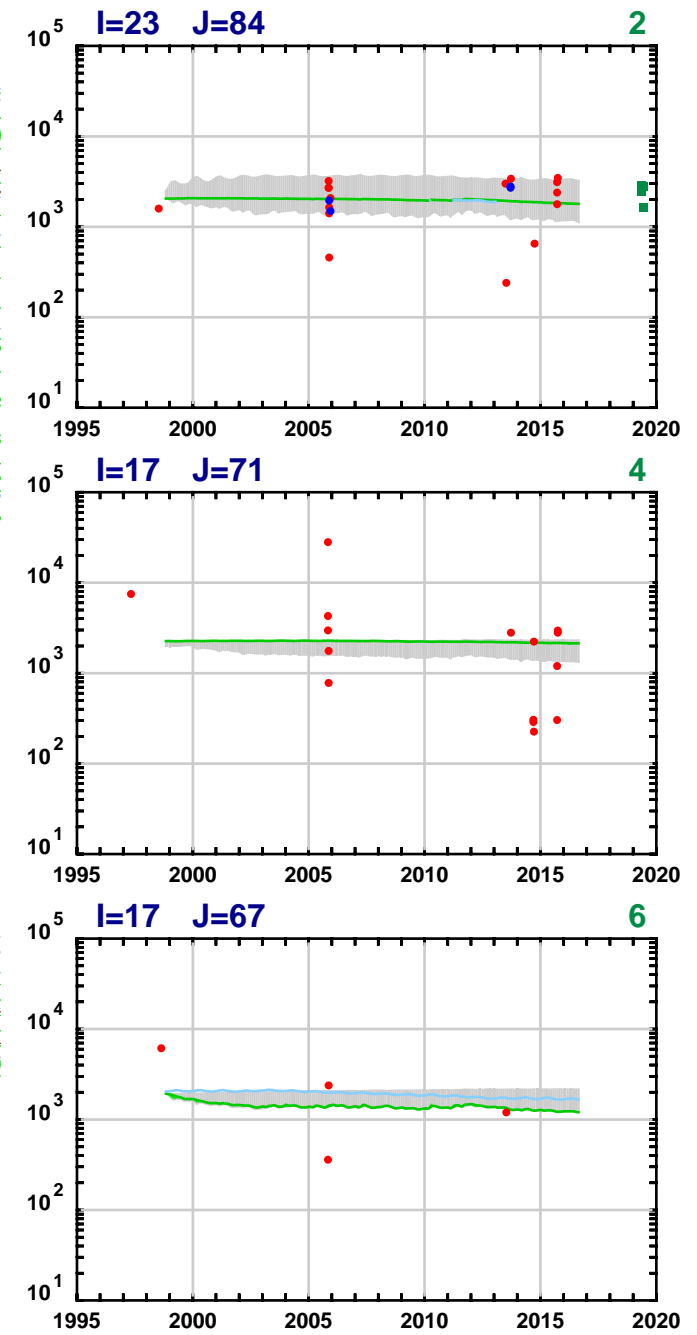
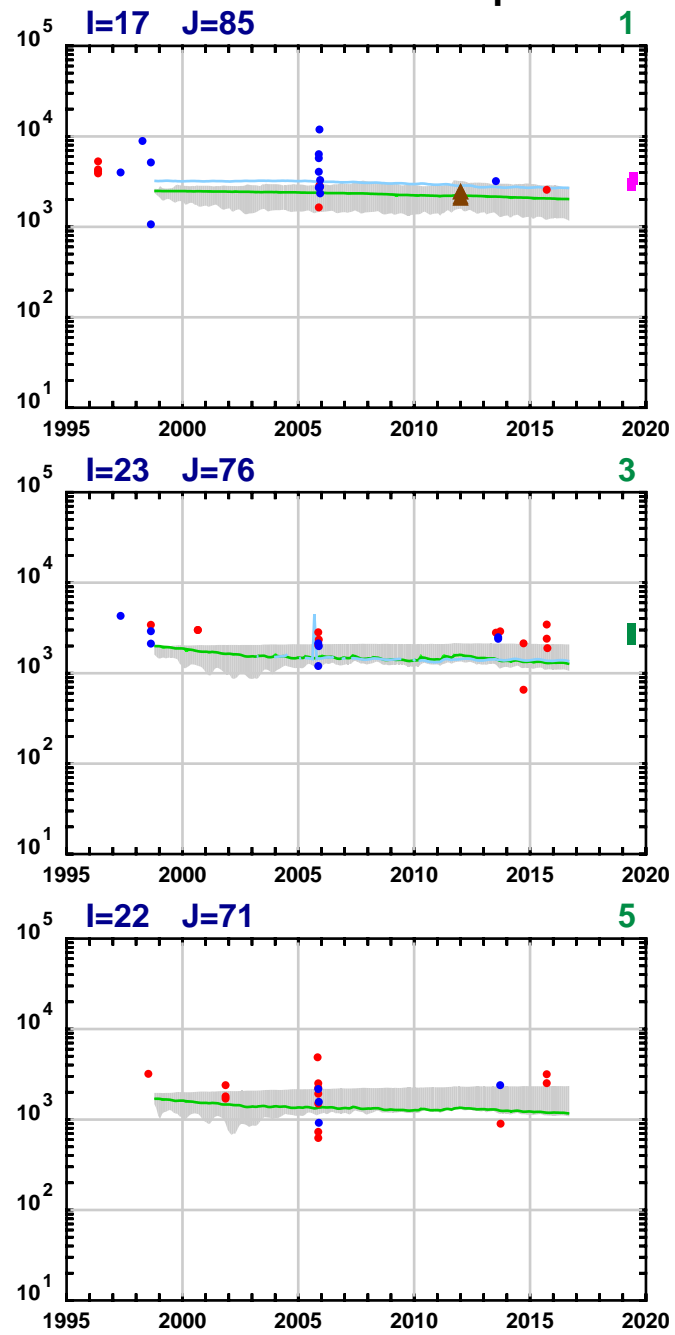


# Top 15 cm data comparison with model top 10 cm sediment



Update of CARP Models  
Lower Newark Bay

Octachlorodibenzo-p-dioxin ppt



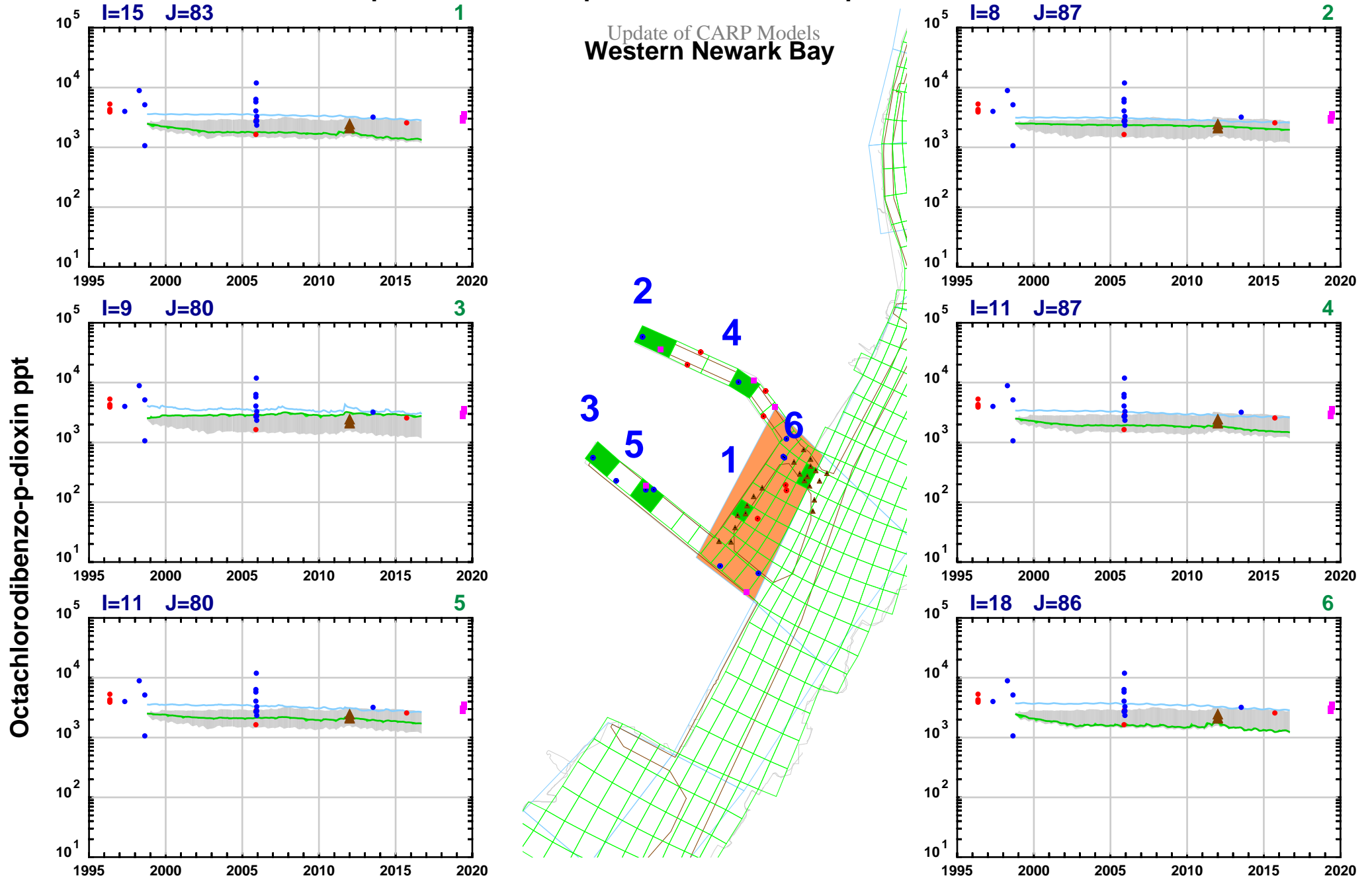
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay



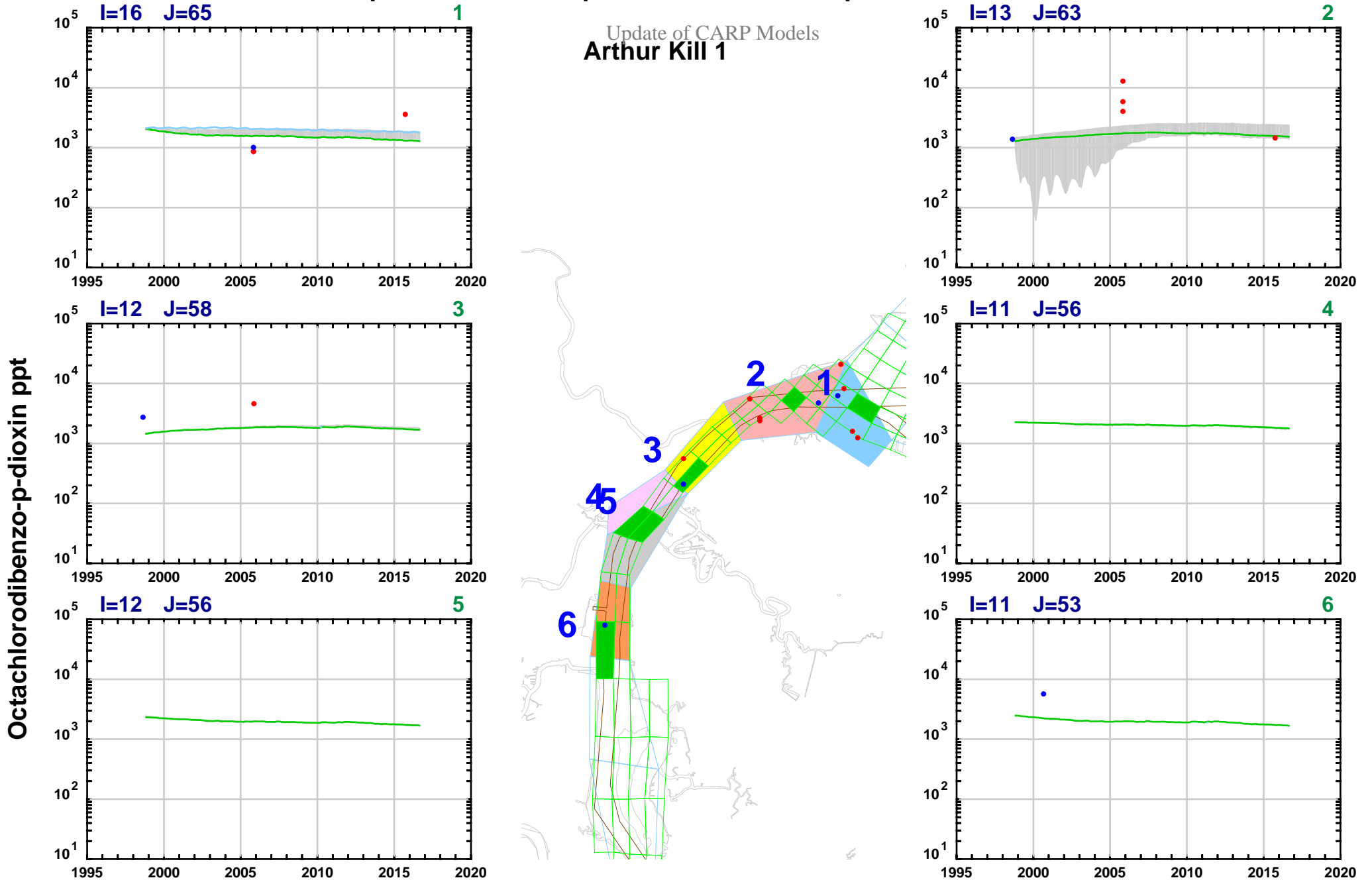
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

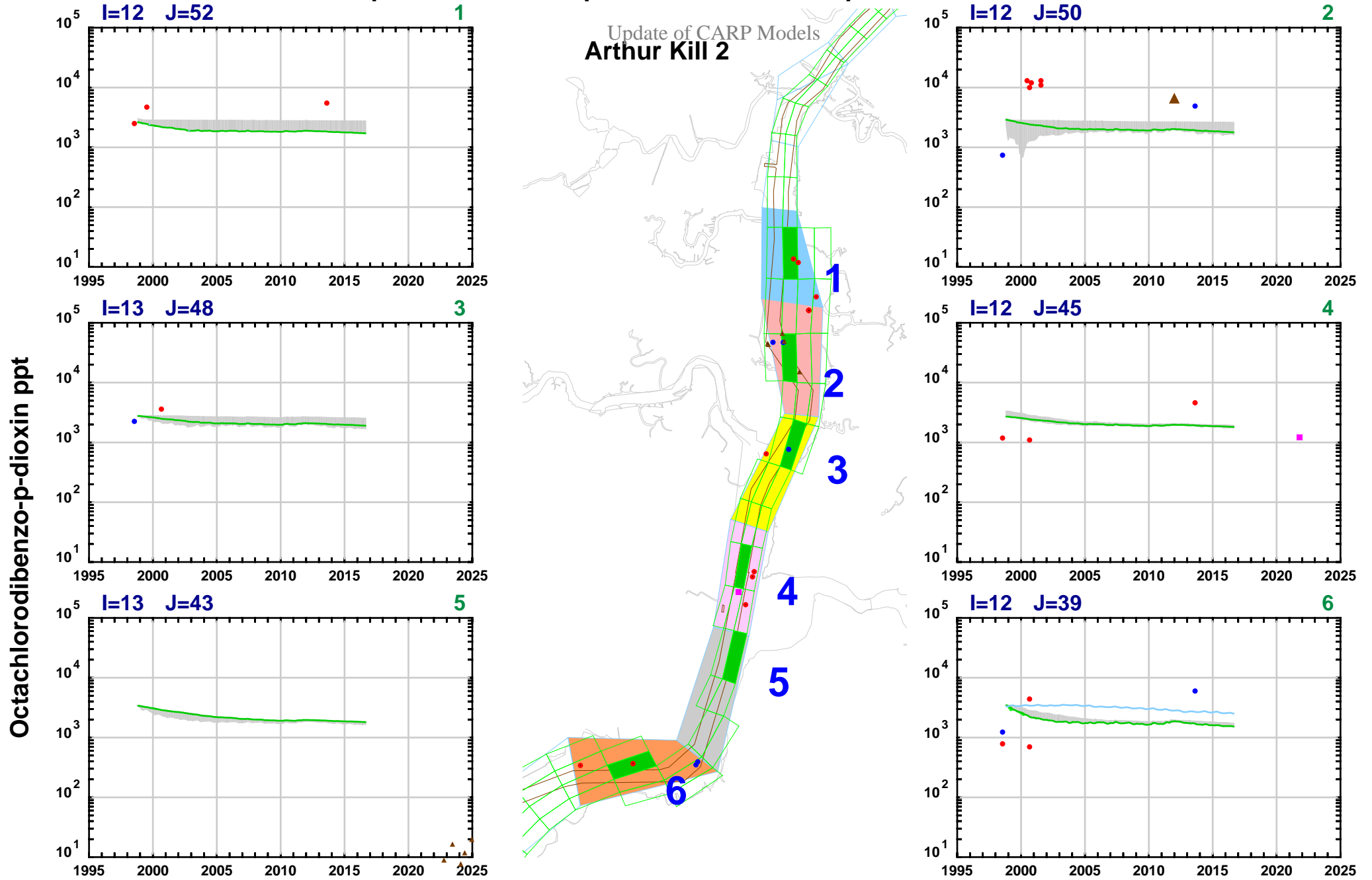


RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

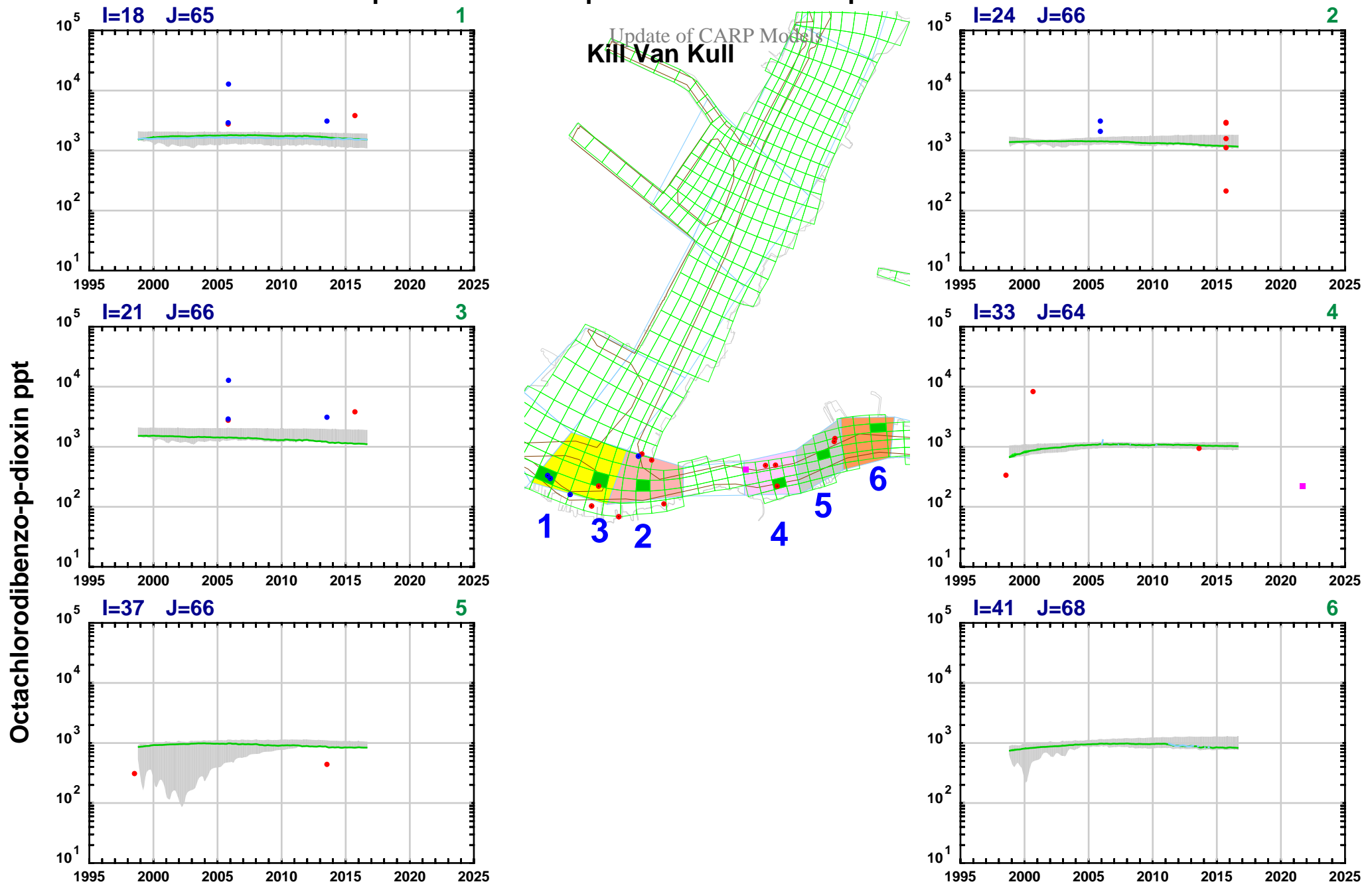


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

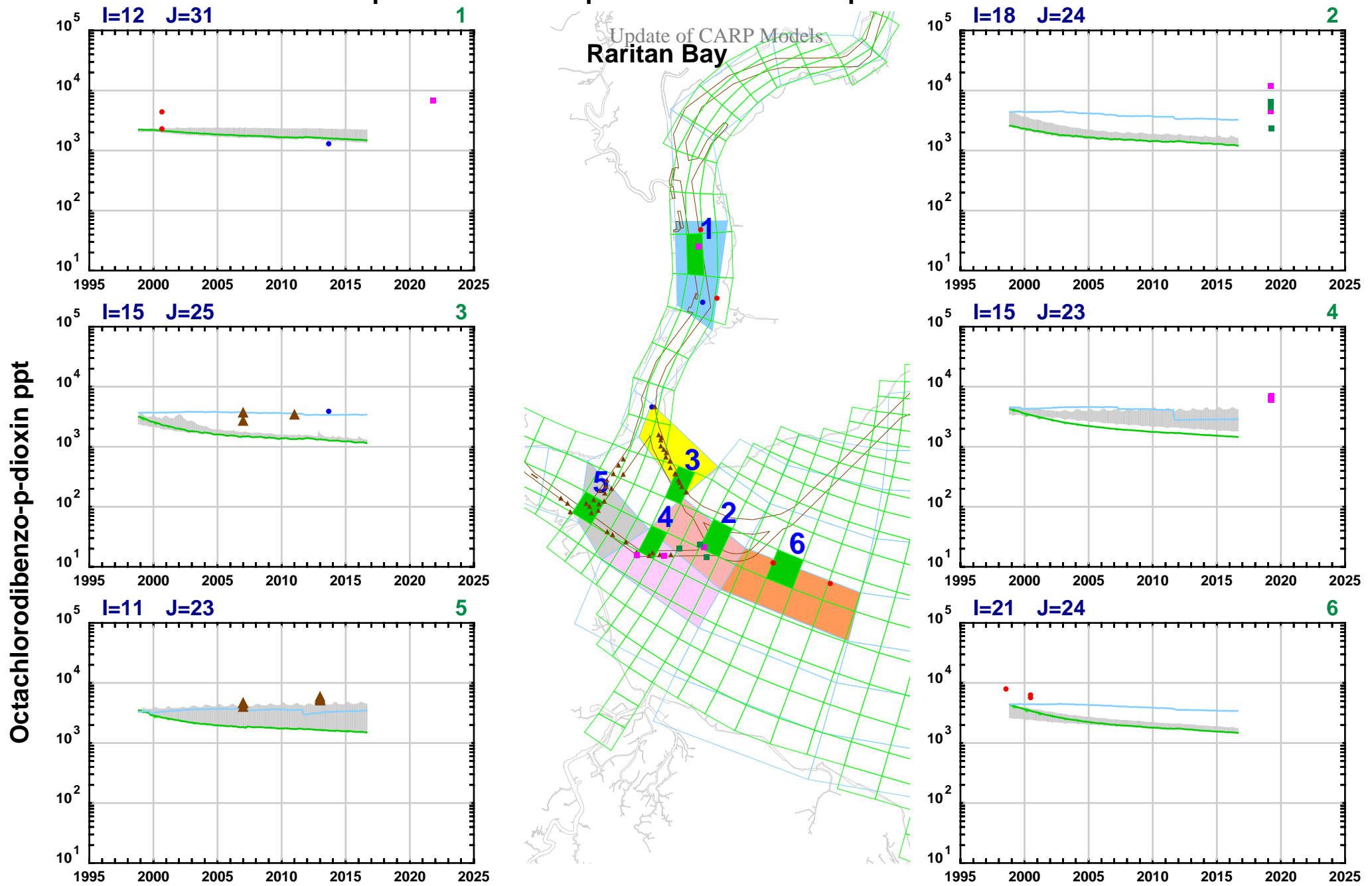


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

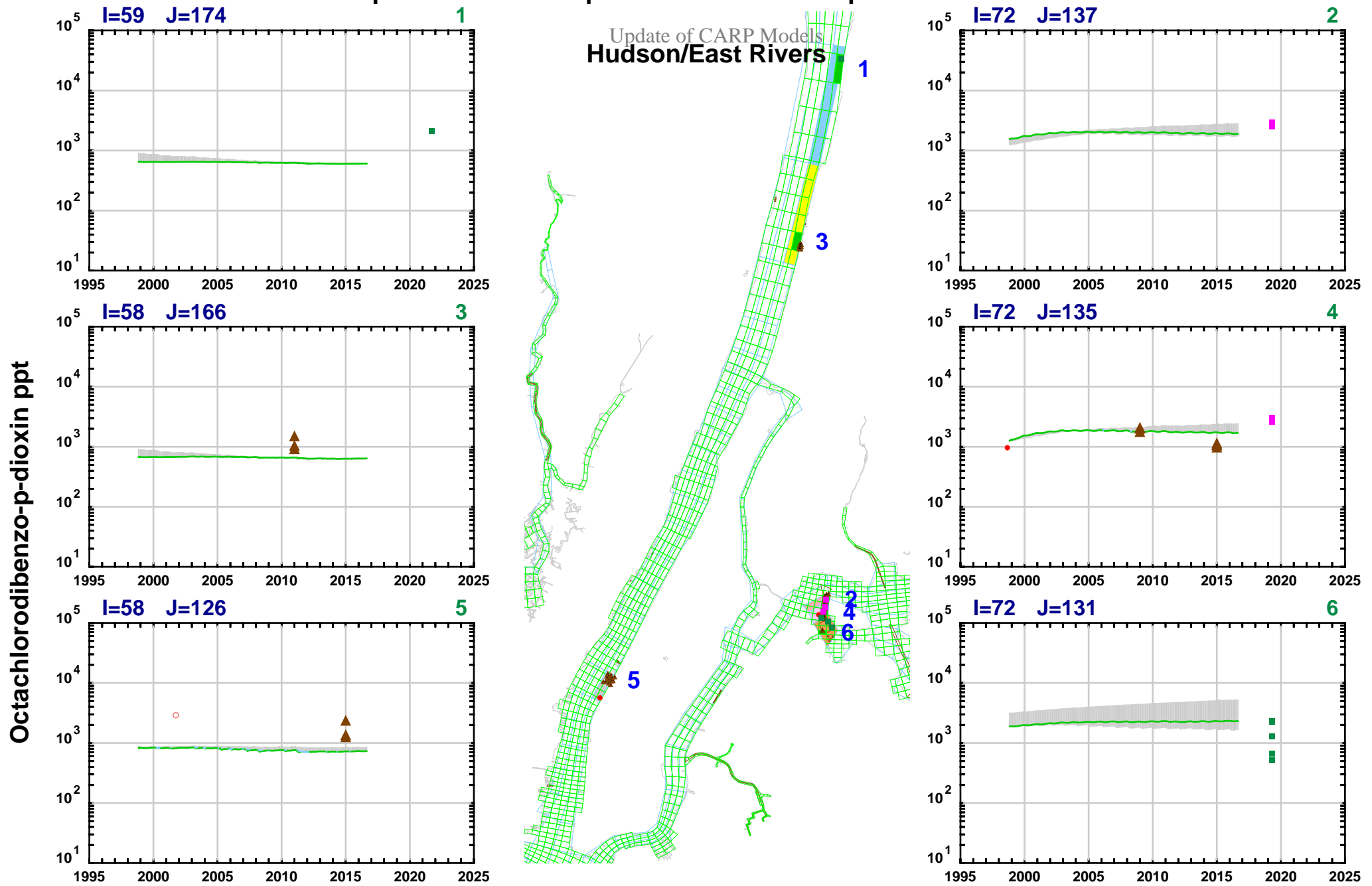


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



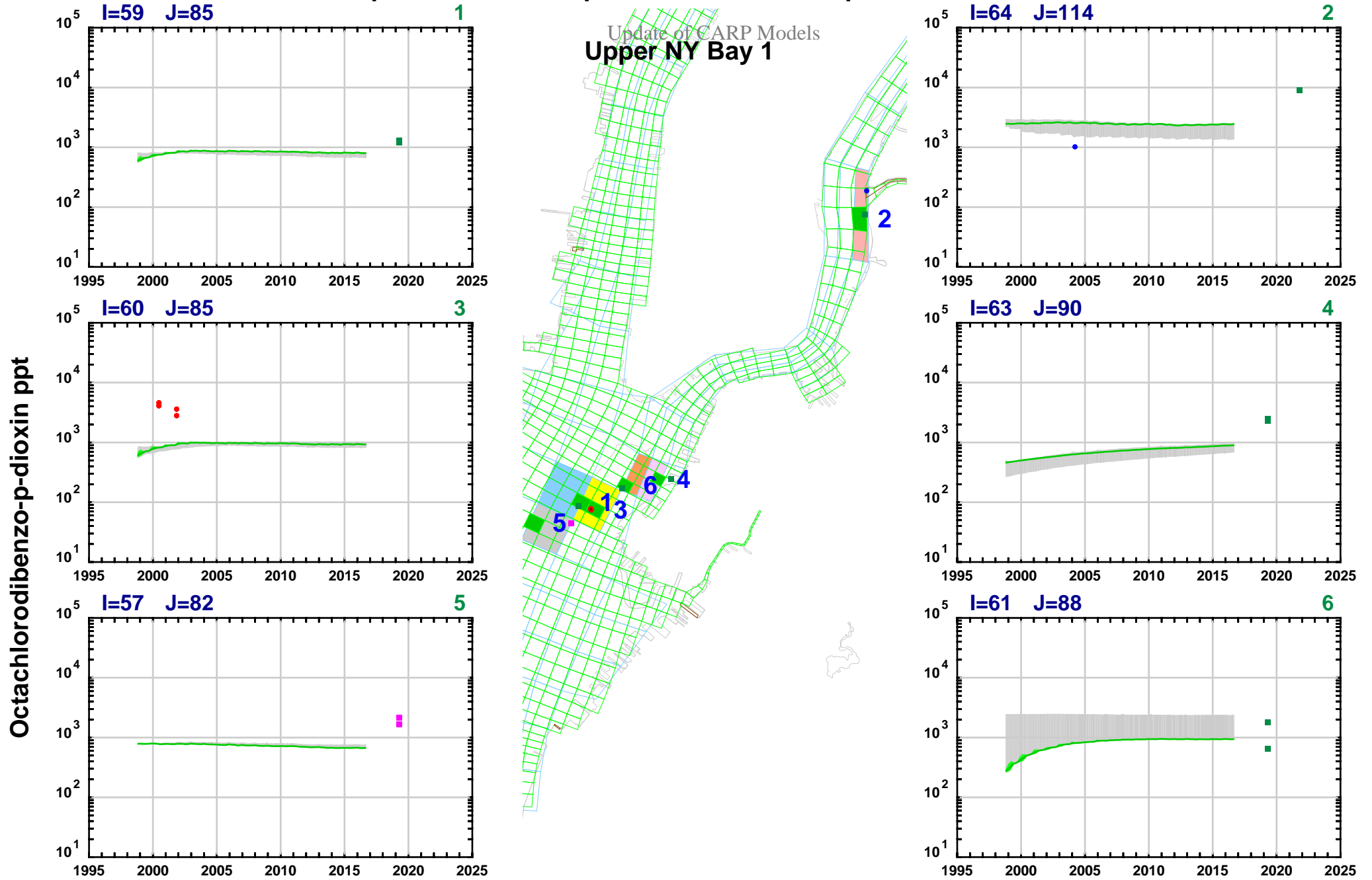
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

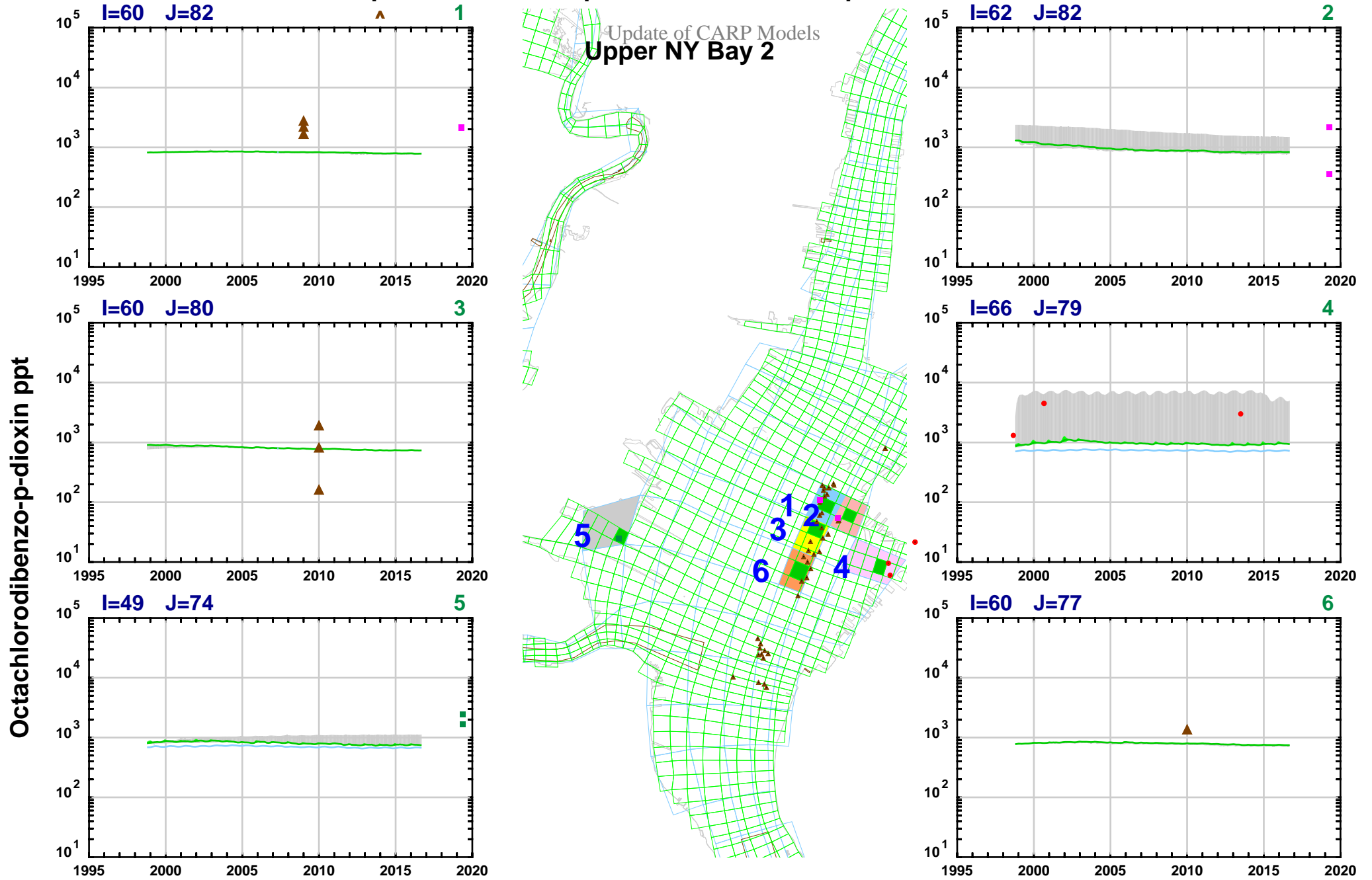


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

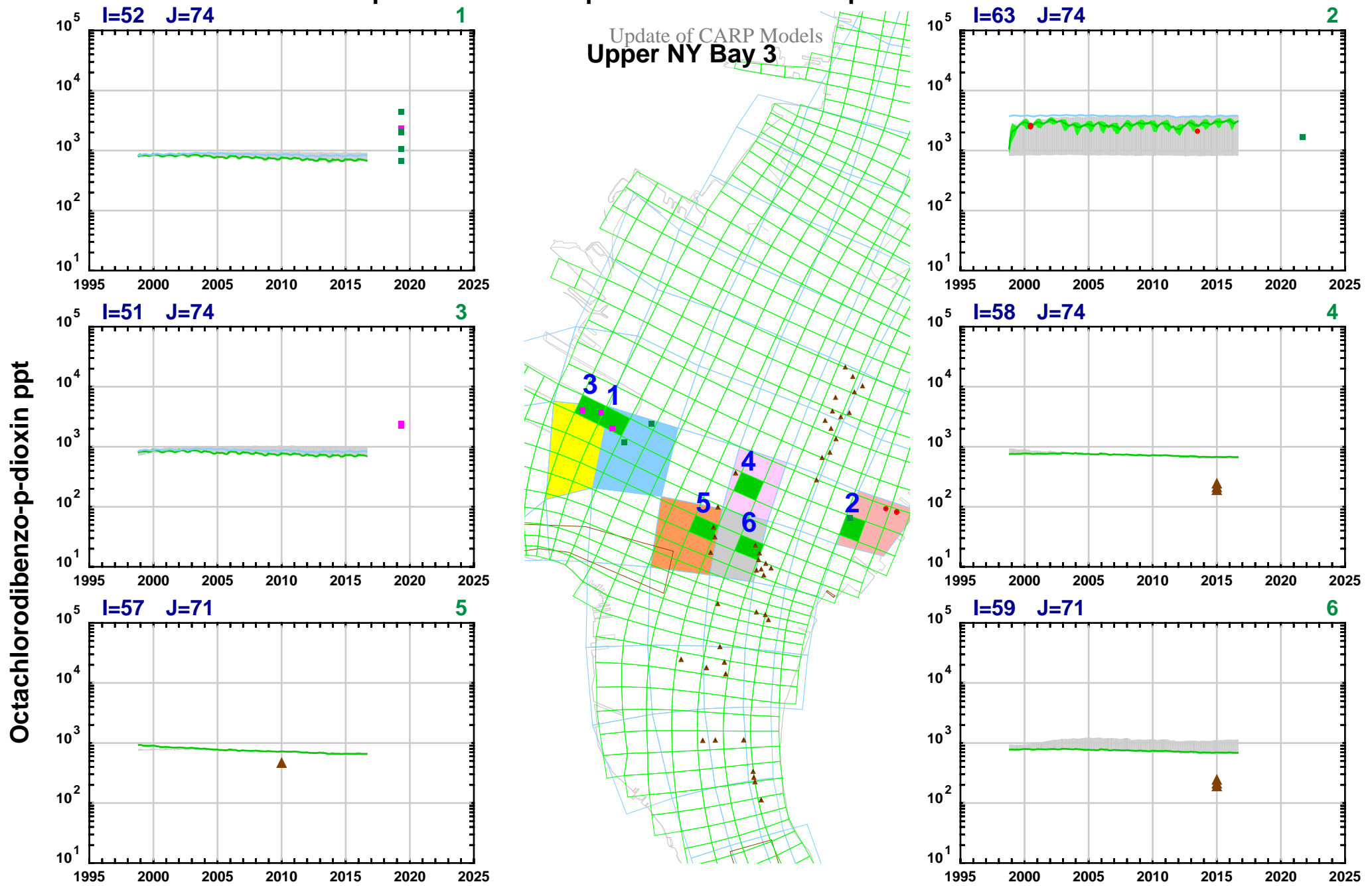


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data**    **● Off-channel data**    **▲ Dredge data**  
**■ CARP2 In-channel**    **■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

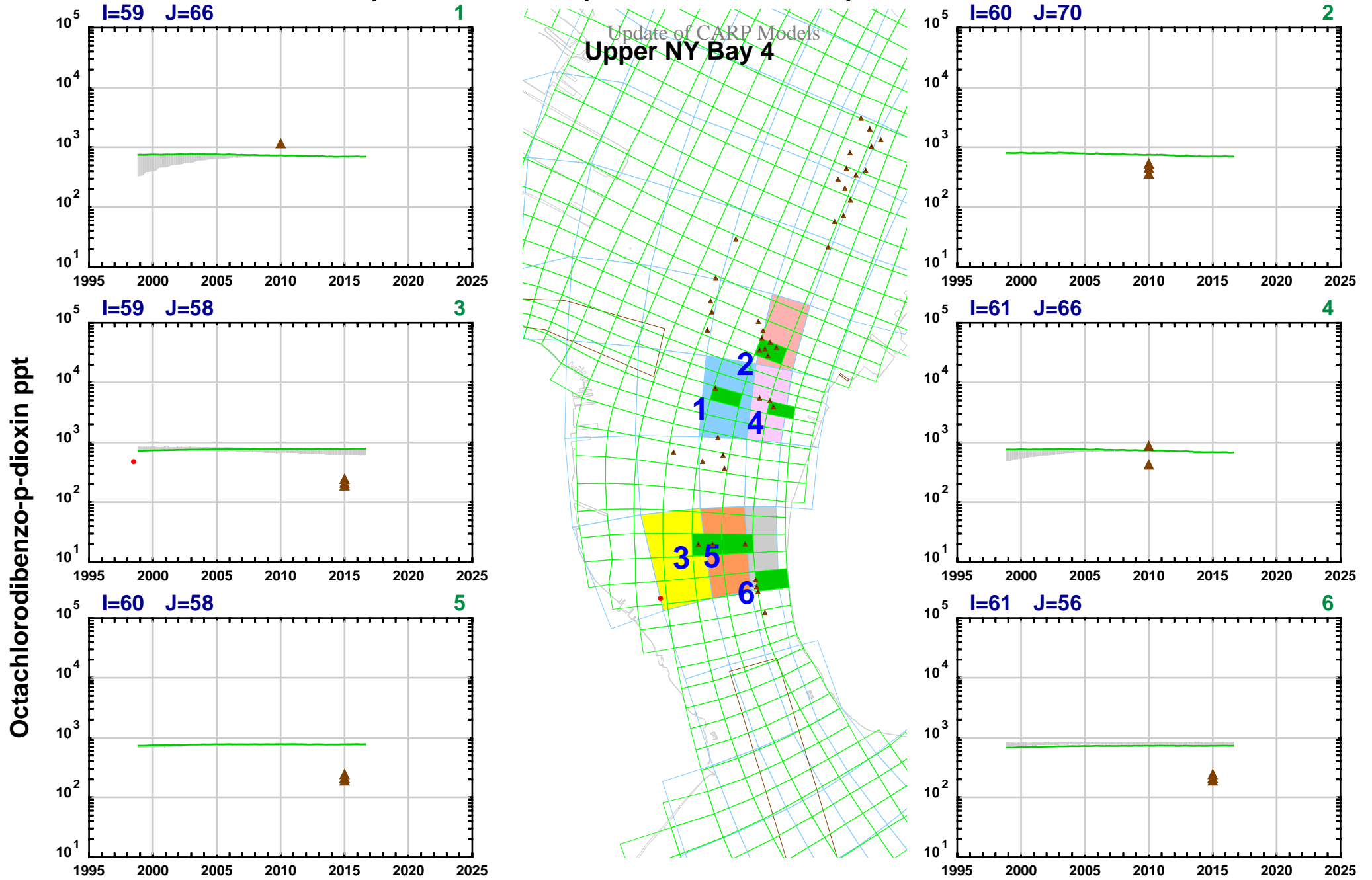


RUN18\_S3

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

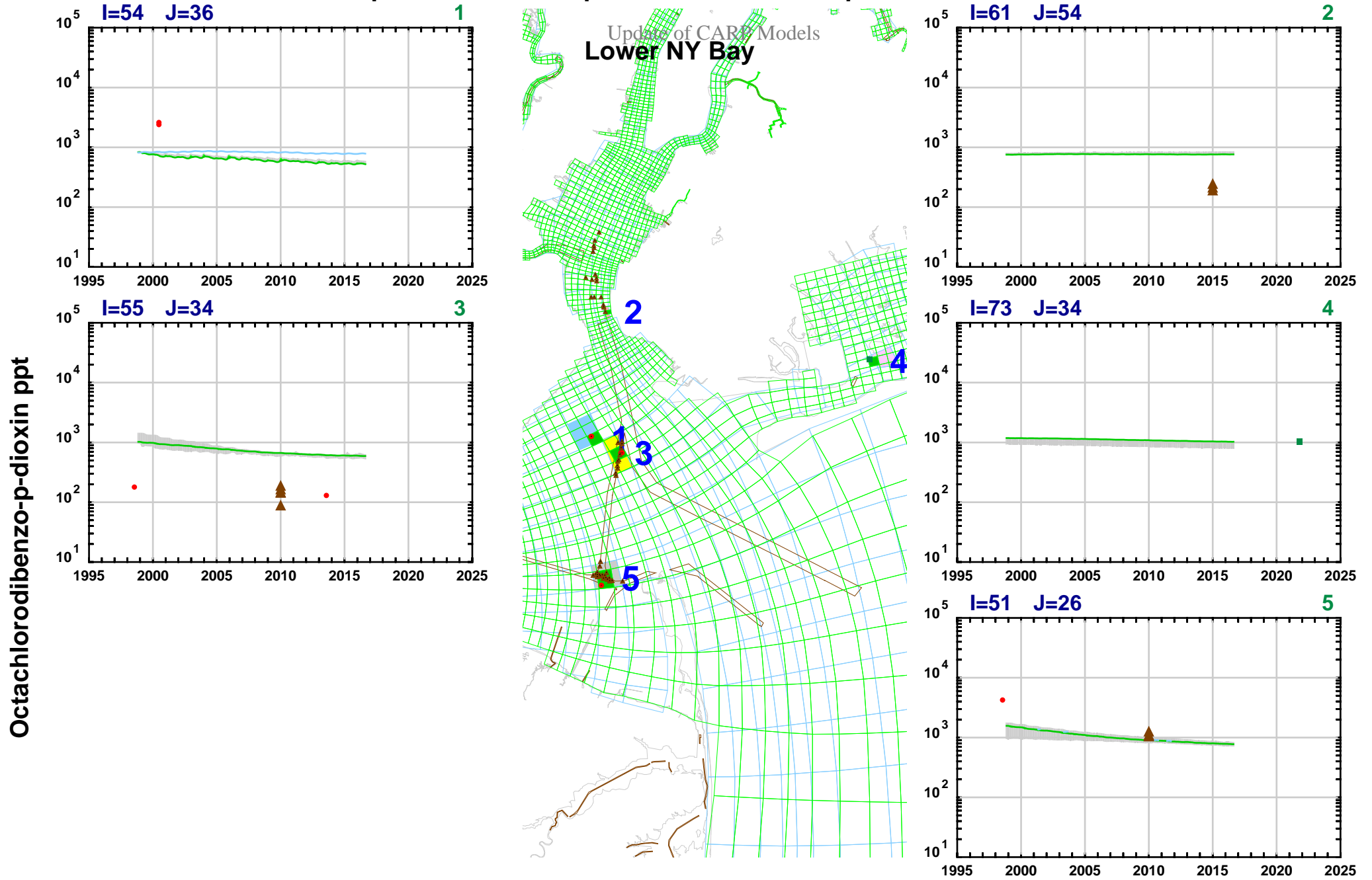


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data ● Off-channel data ▲ Dredge data**  
**■ CARP2 In-channel ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment



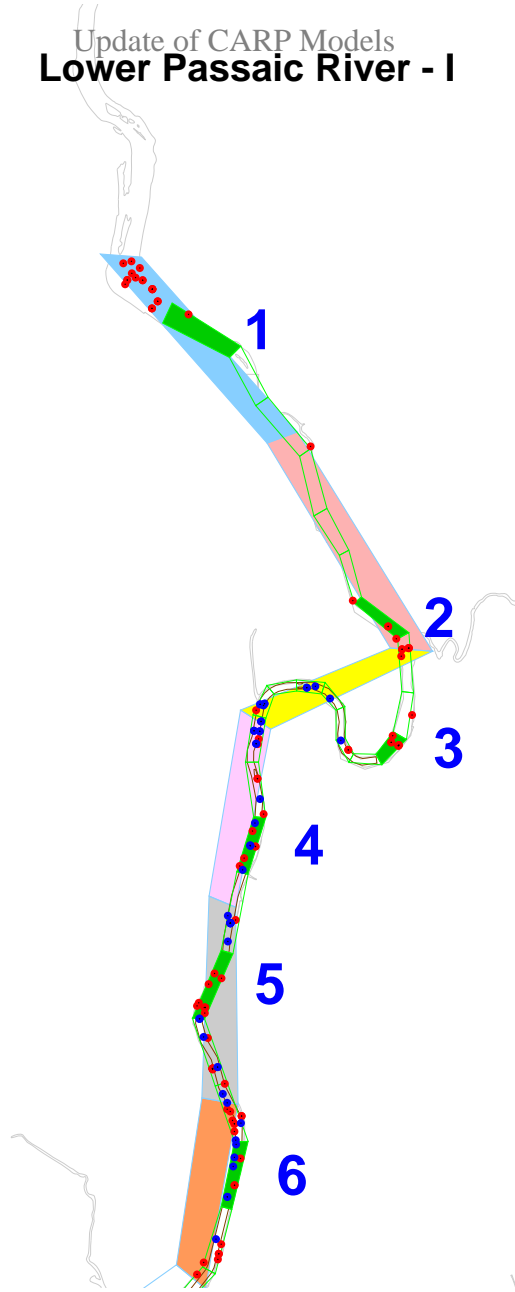
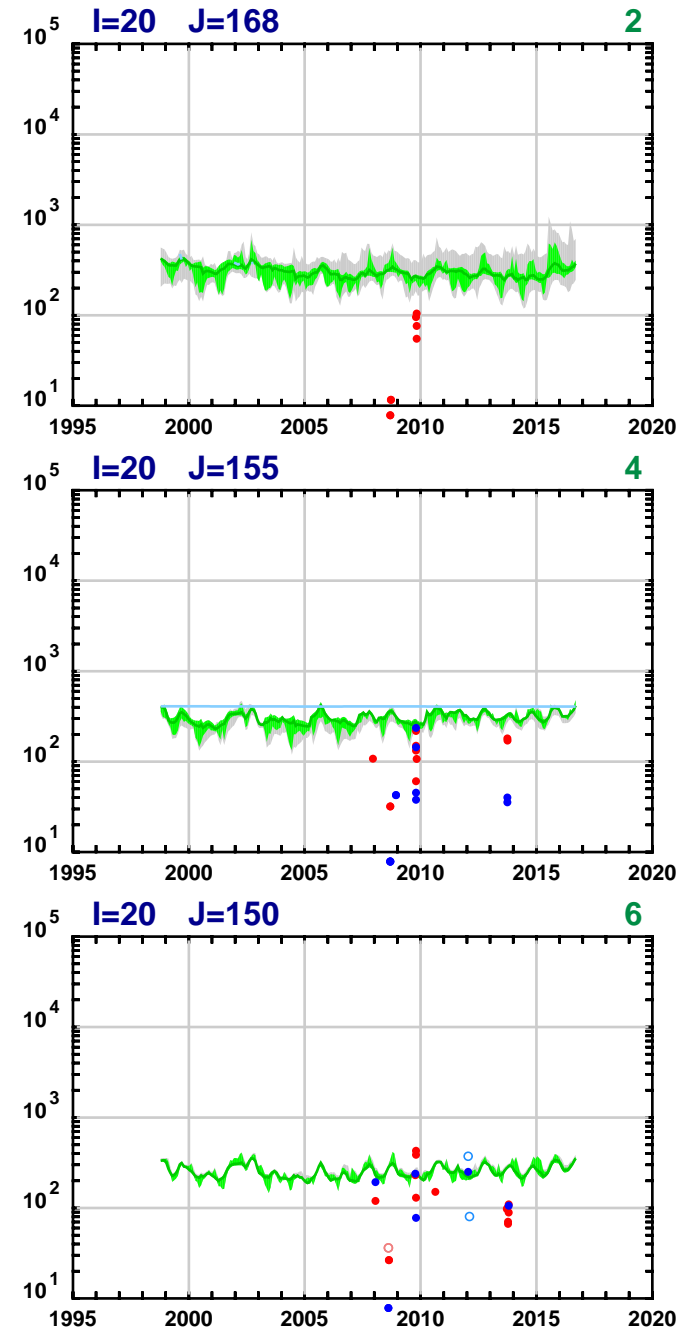
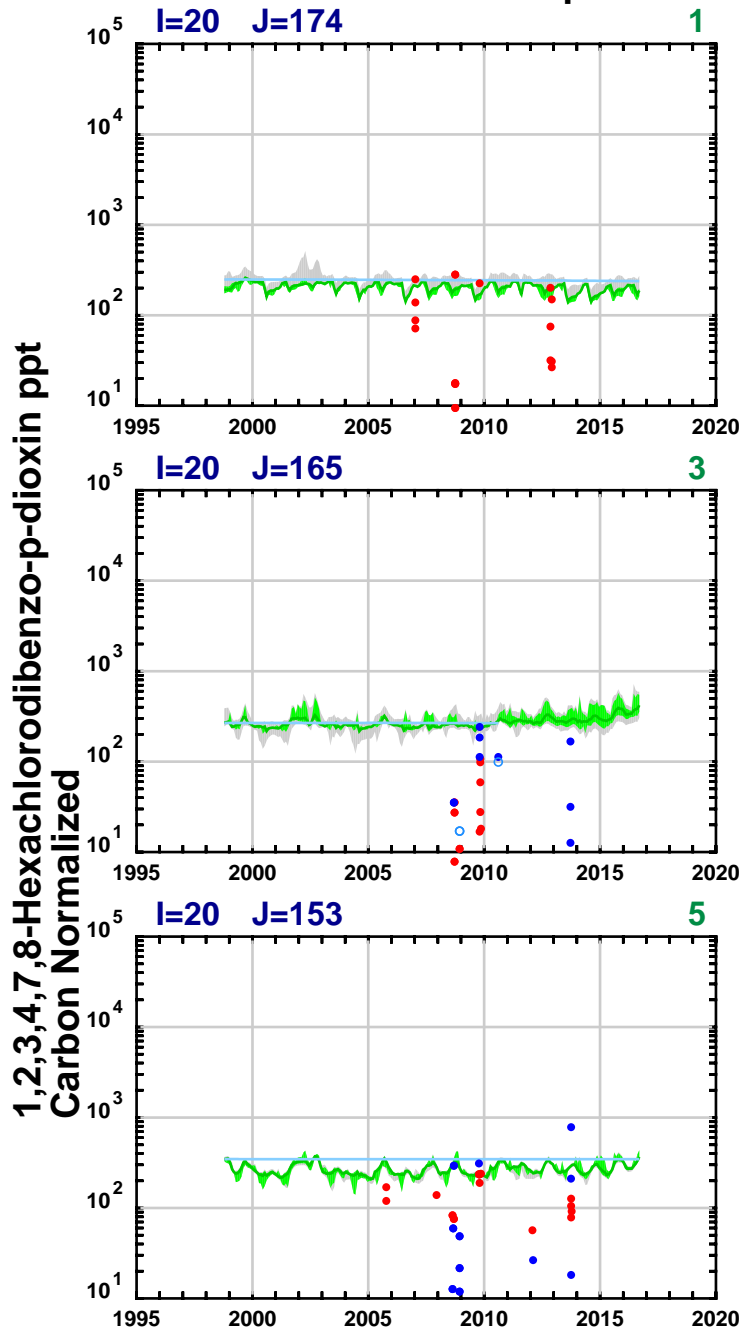
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

## Update of CARP Models Lower Passaic River - I



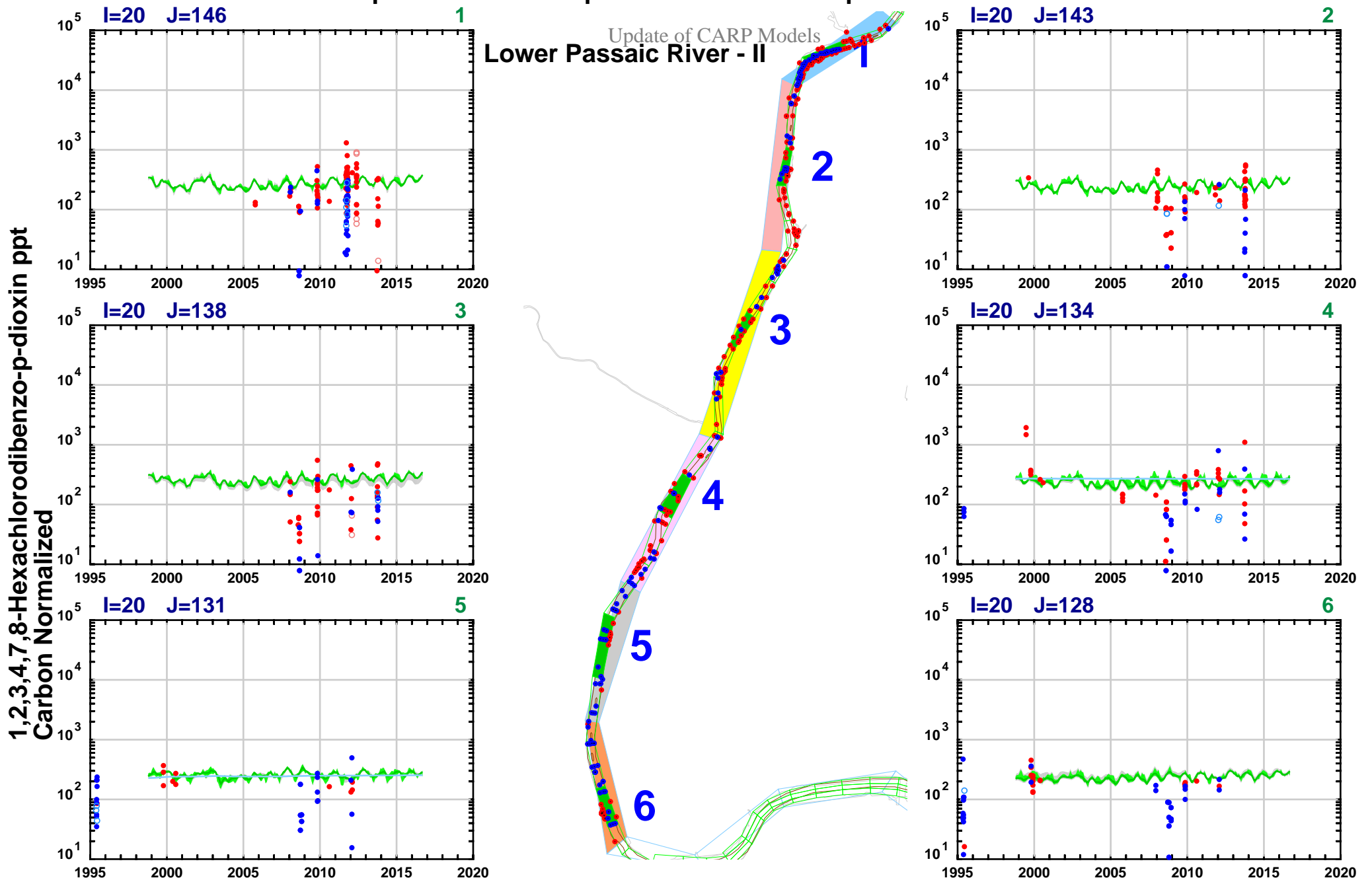
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



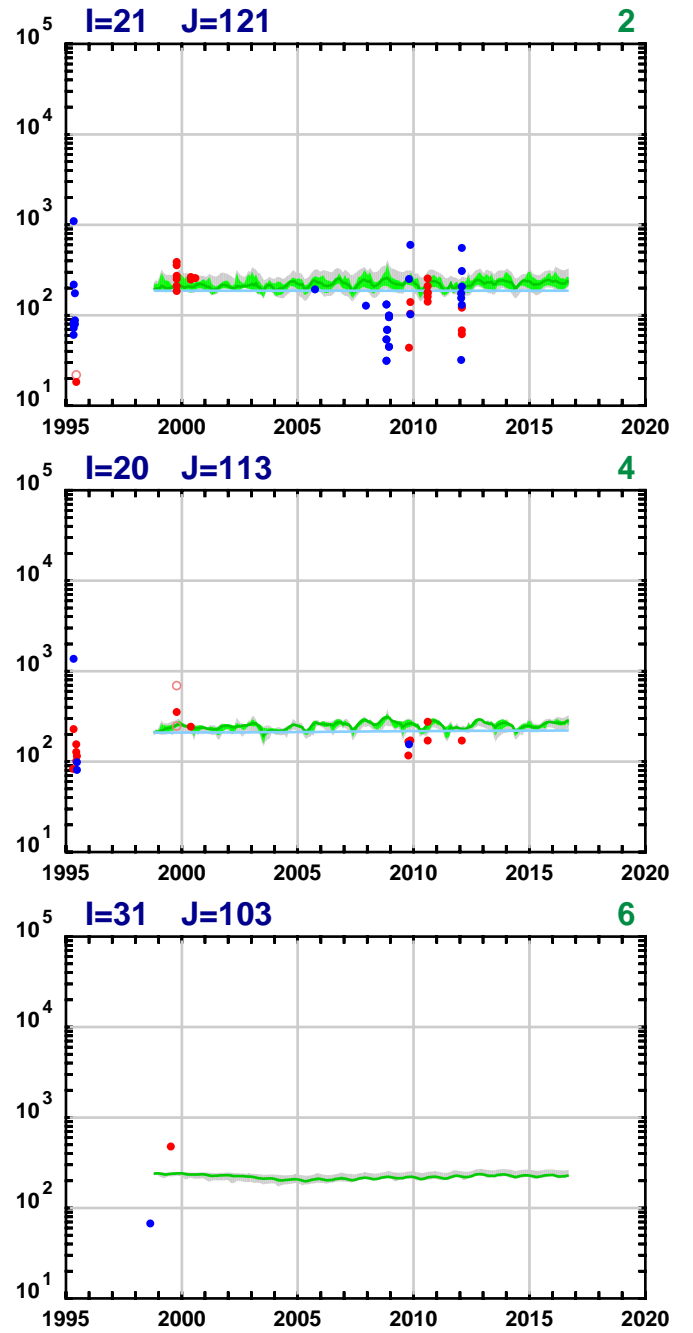
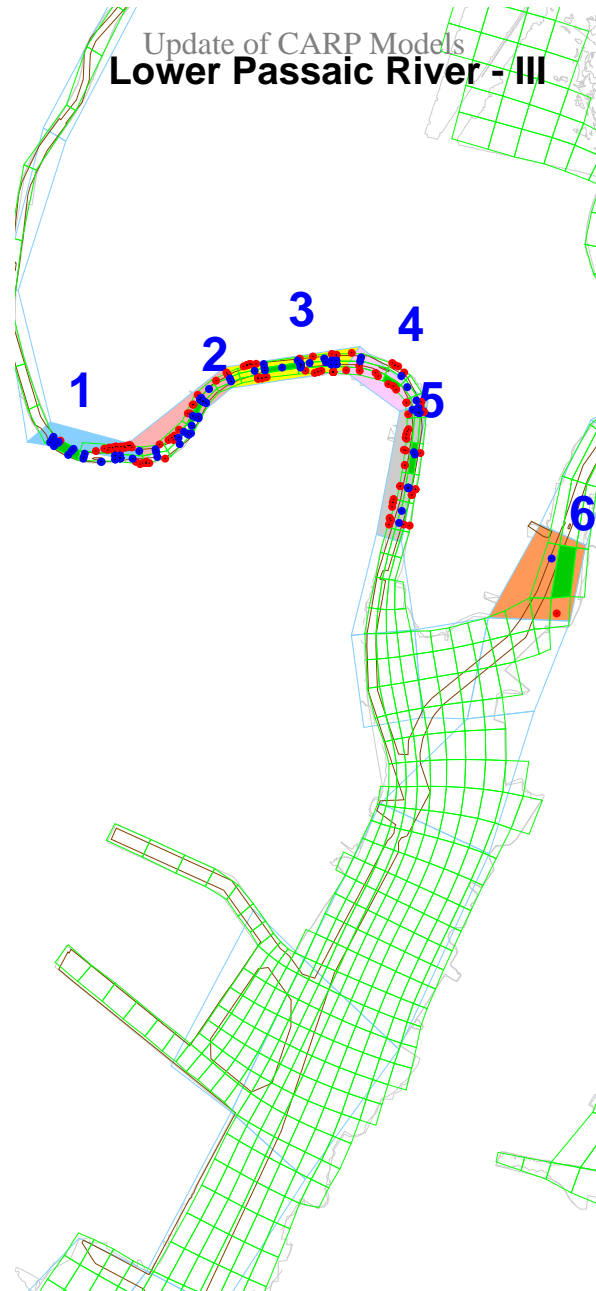
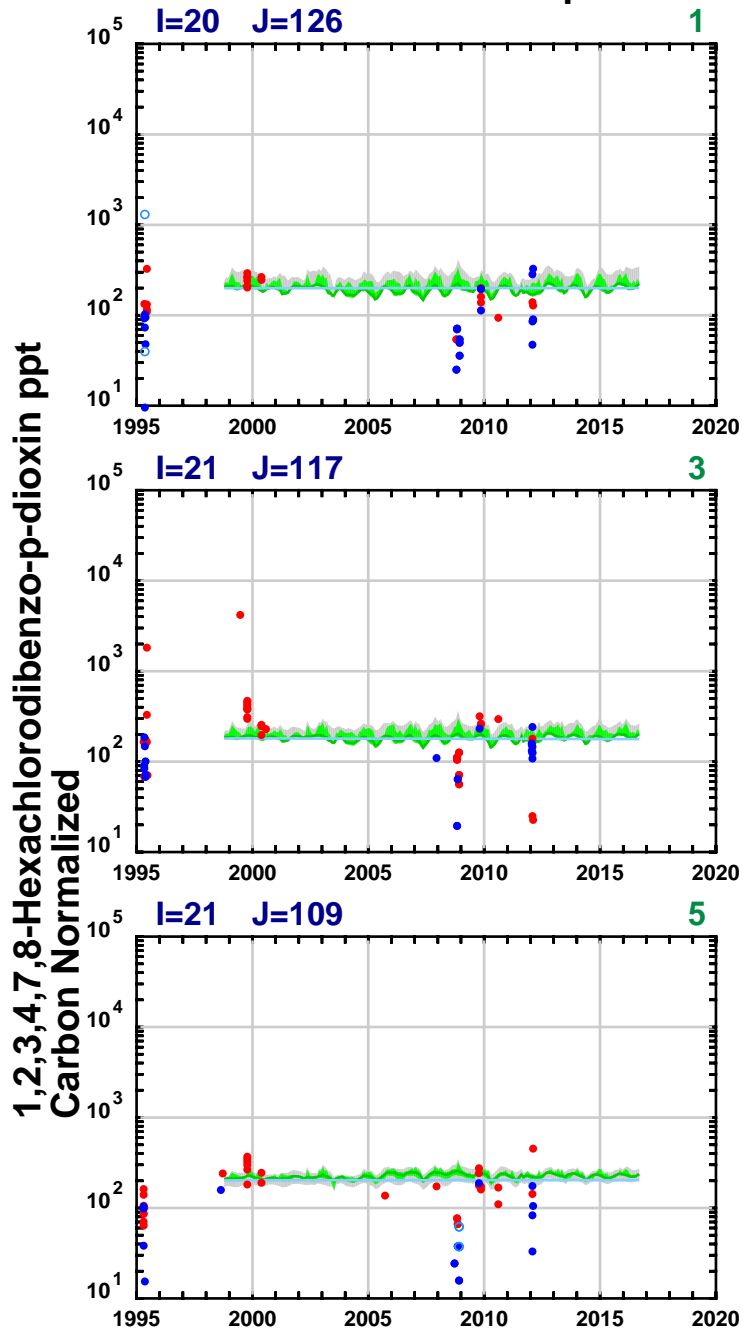
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

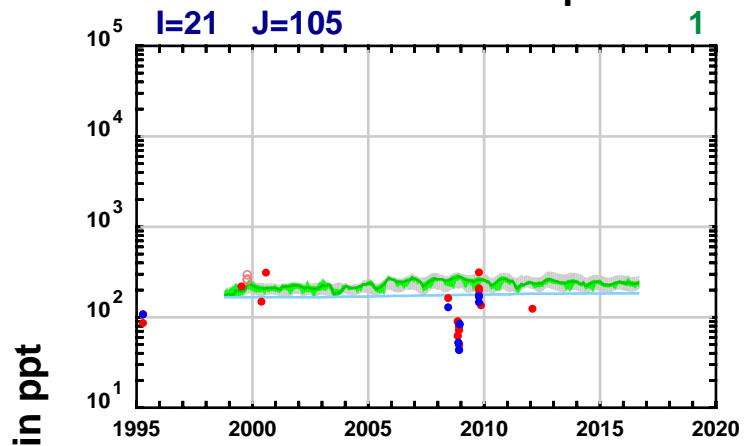


RUN18\_S3

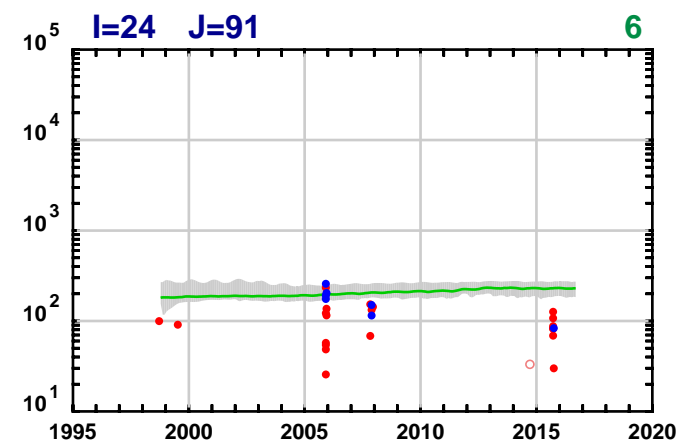
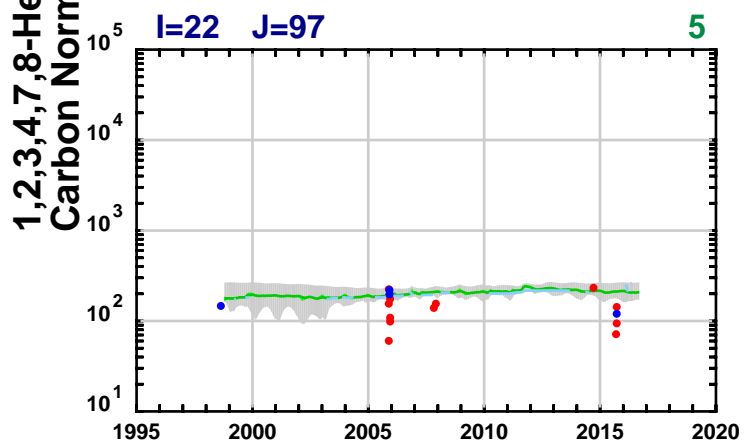
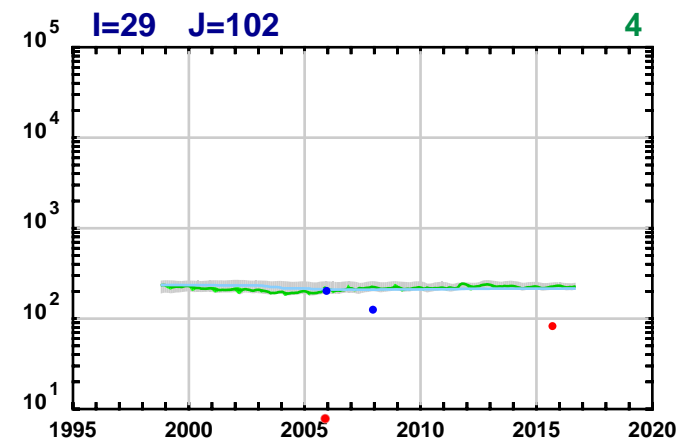
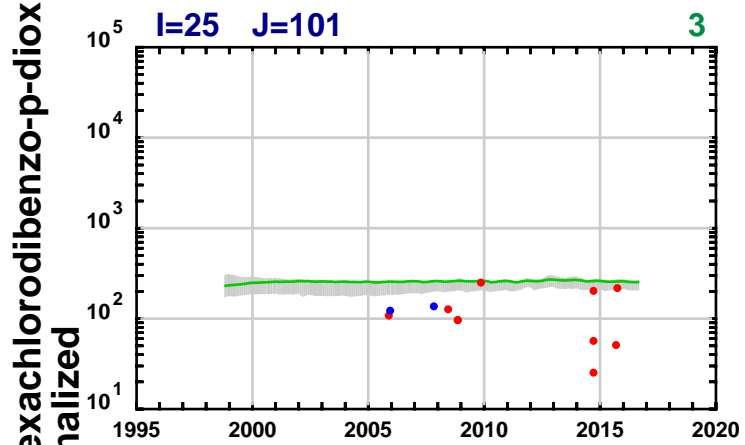
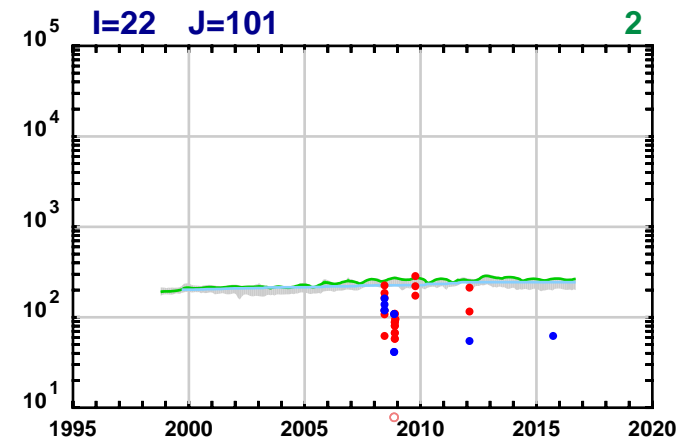
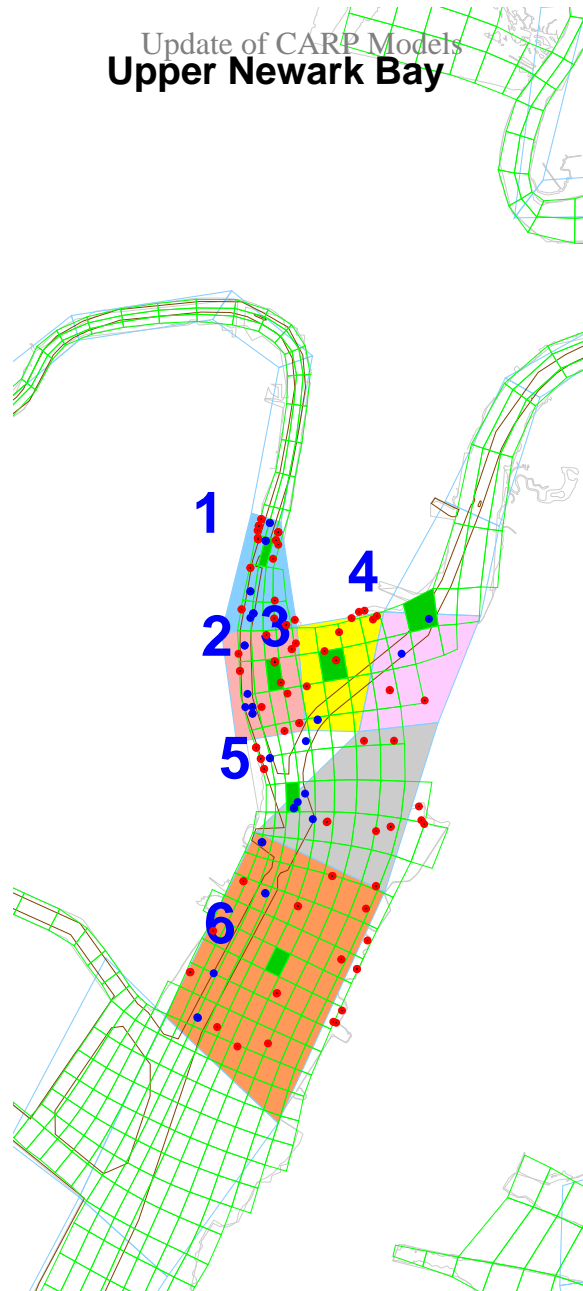
Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



Update of CARP Models  
Upper Newark Bay



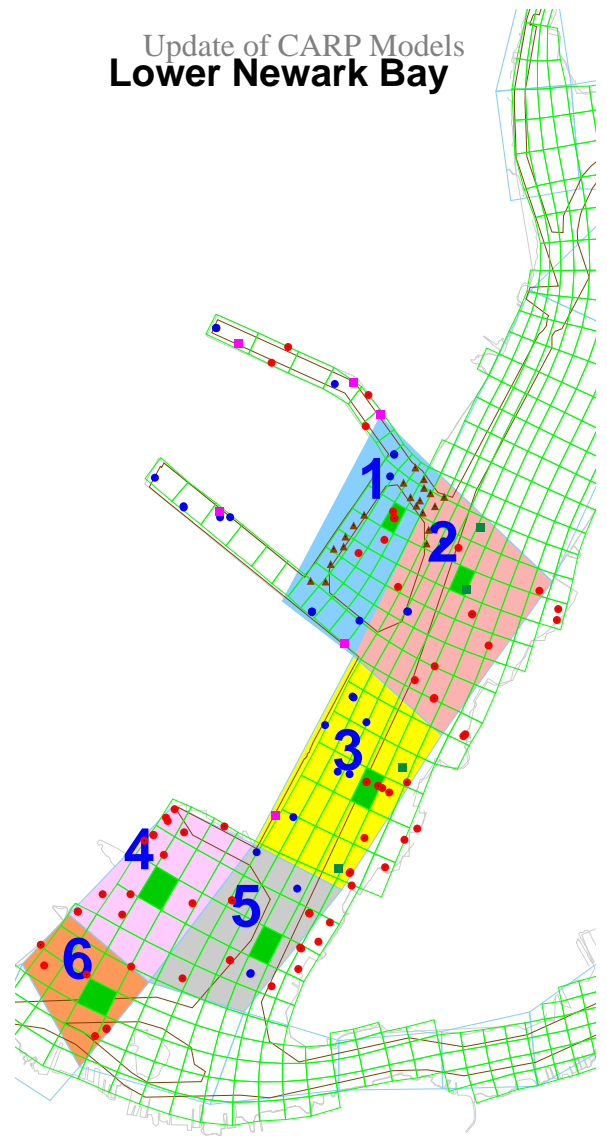
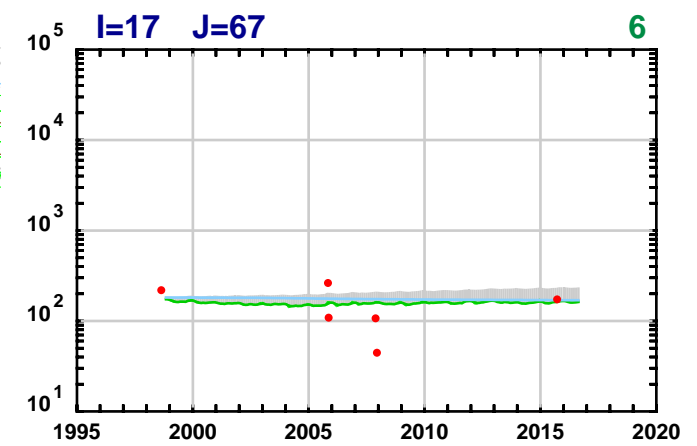
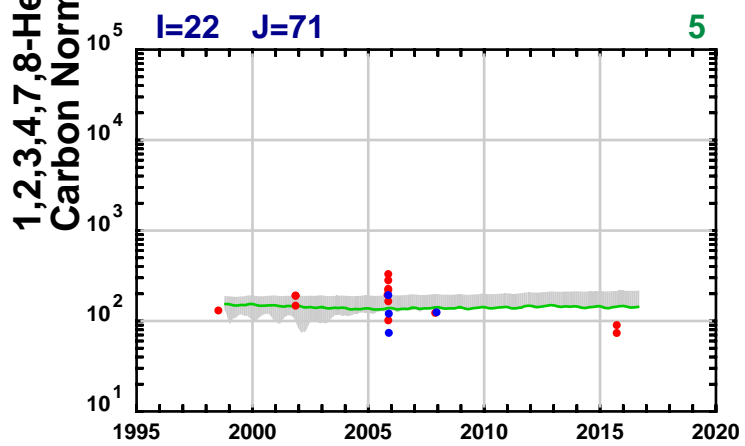
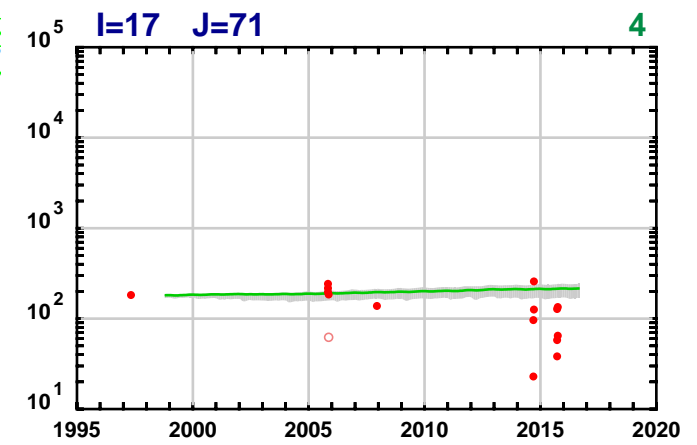
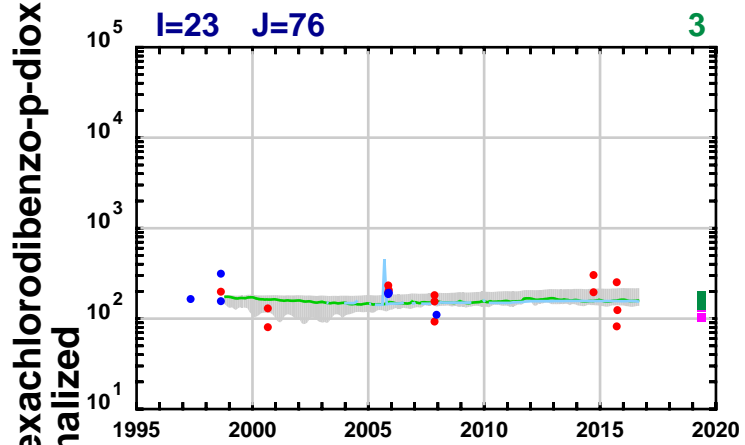
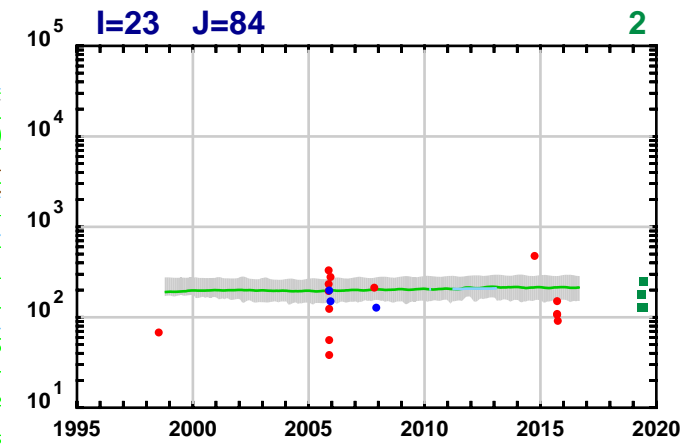
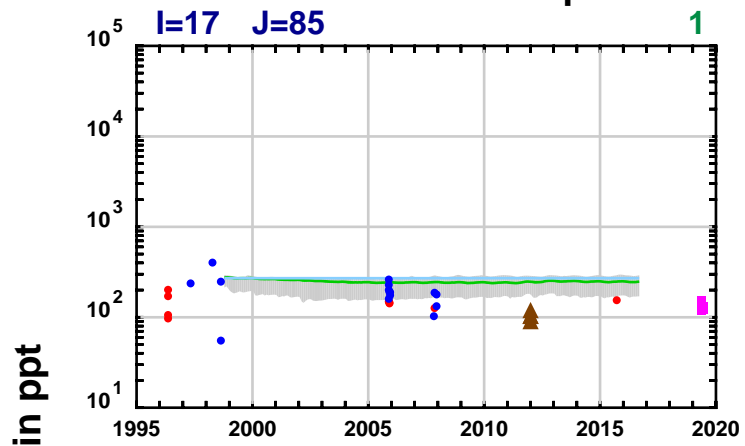
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin ppt  
Carbon Normalized

RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin ppt  
Carbon Normalized

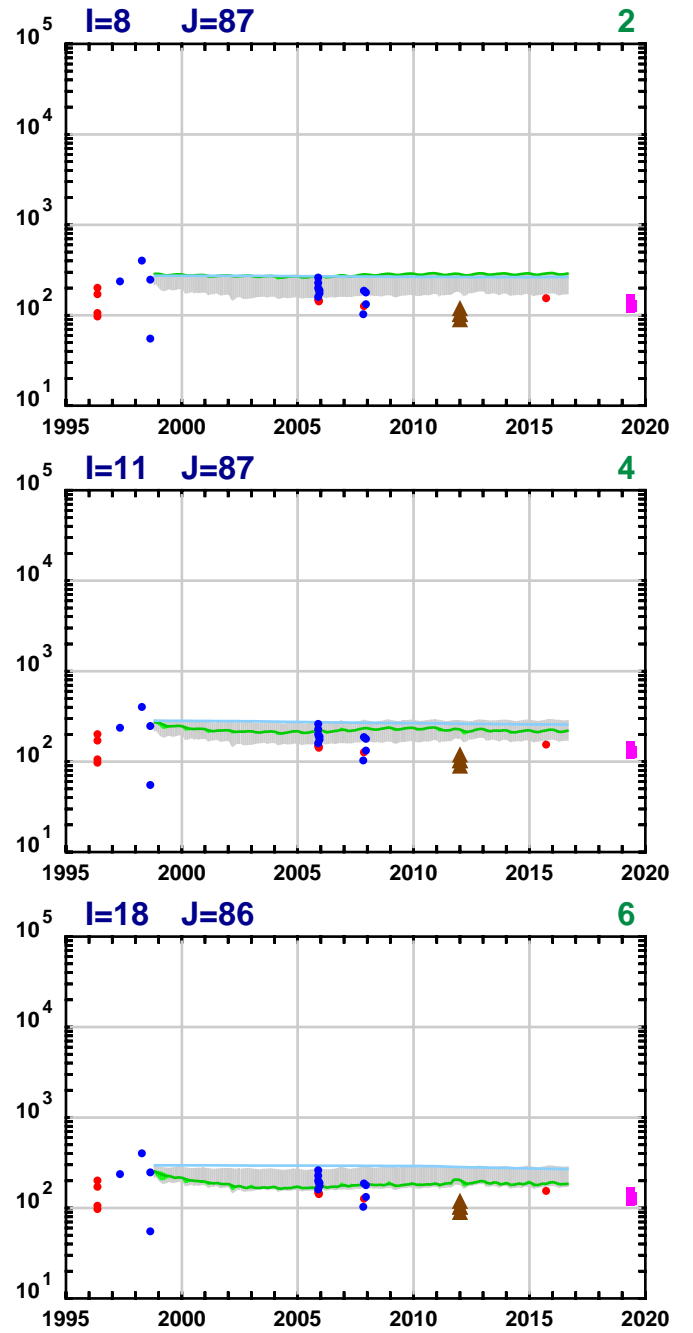
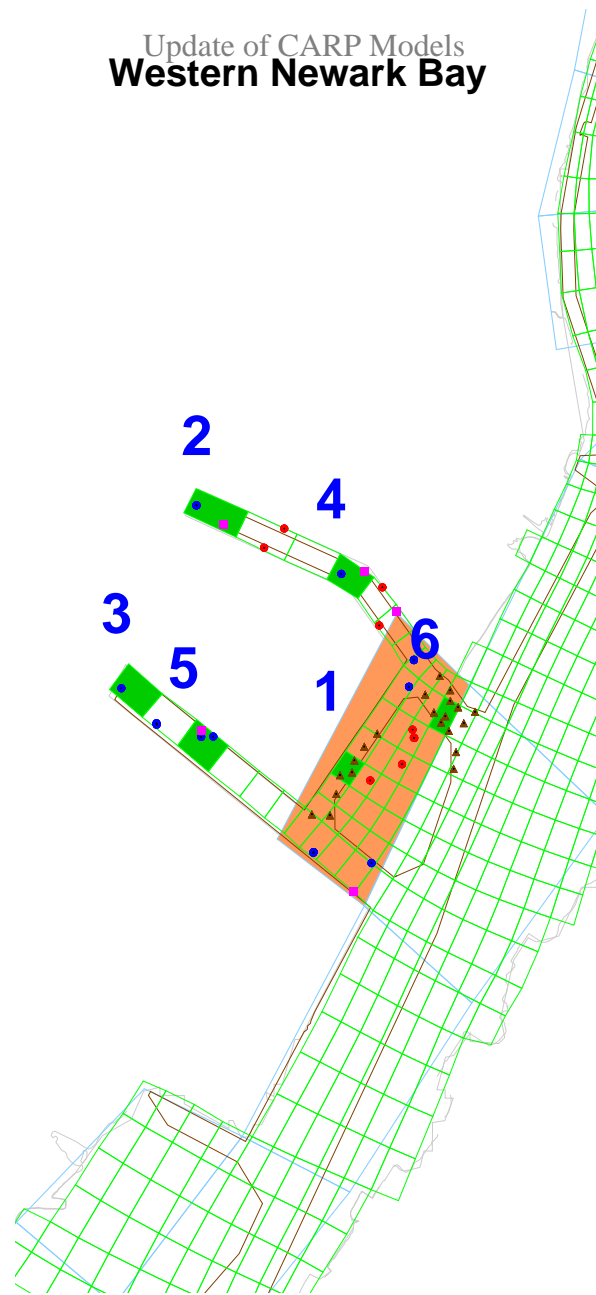
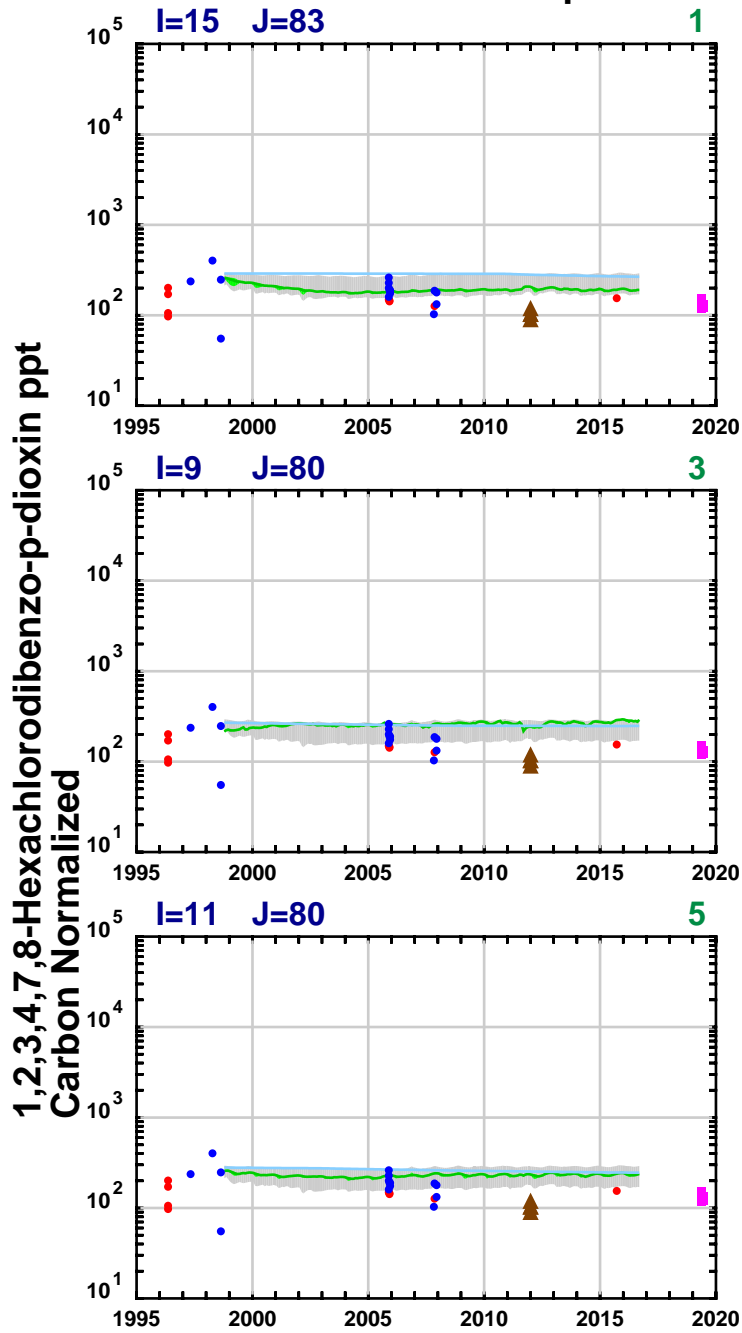
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay



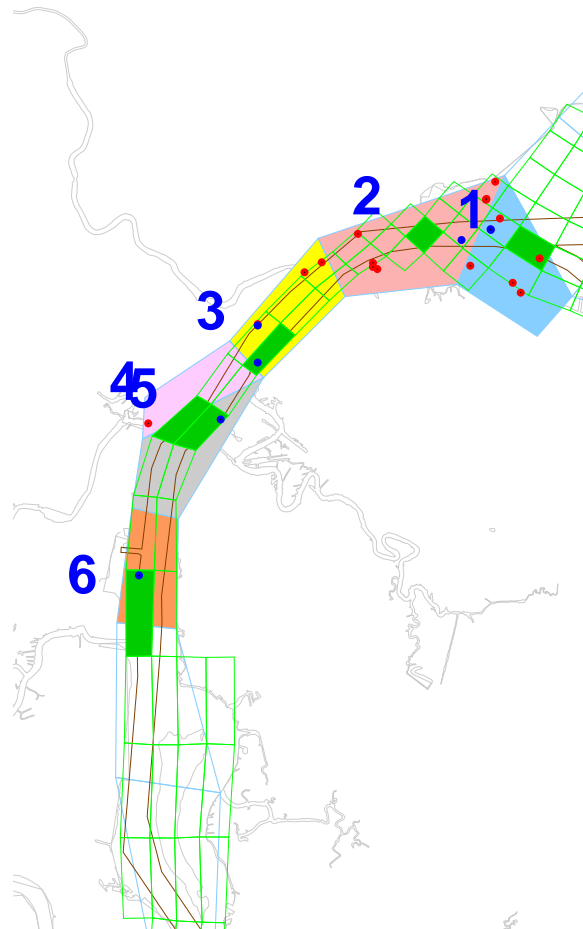
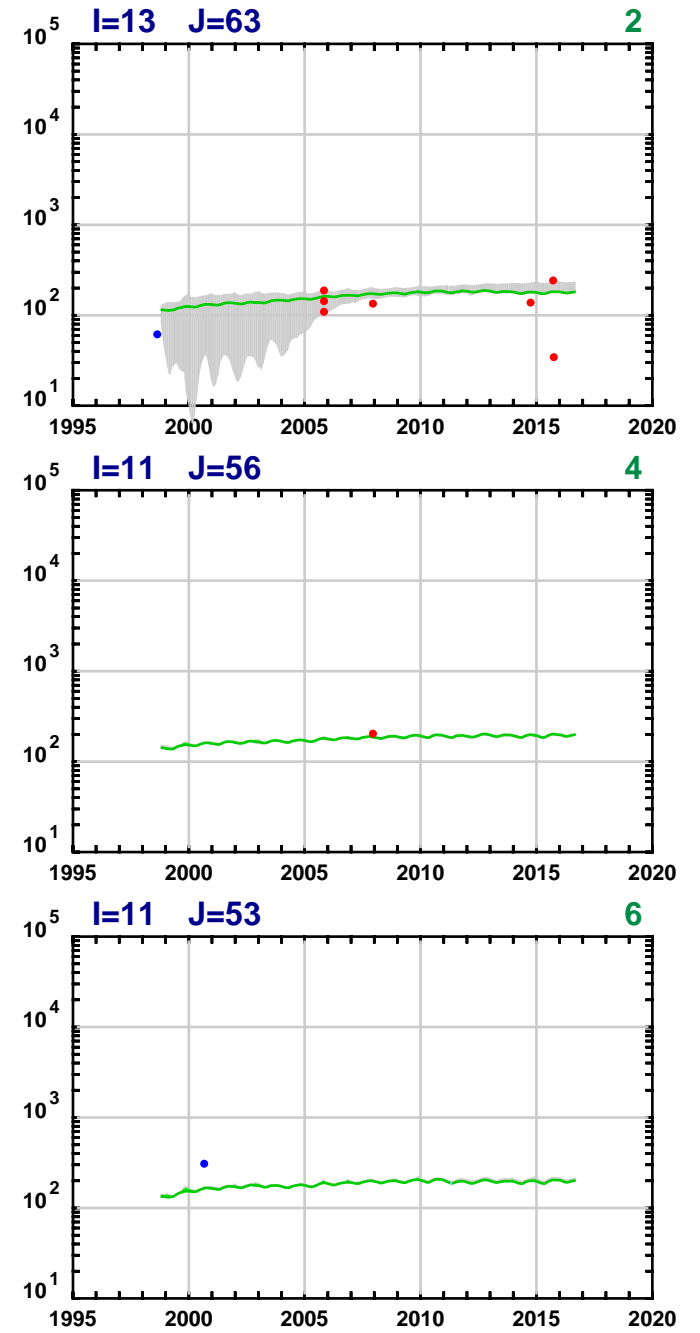
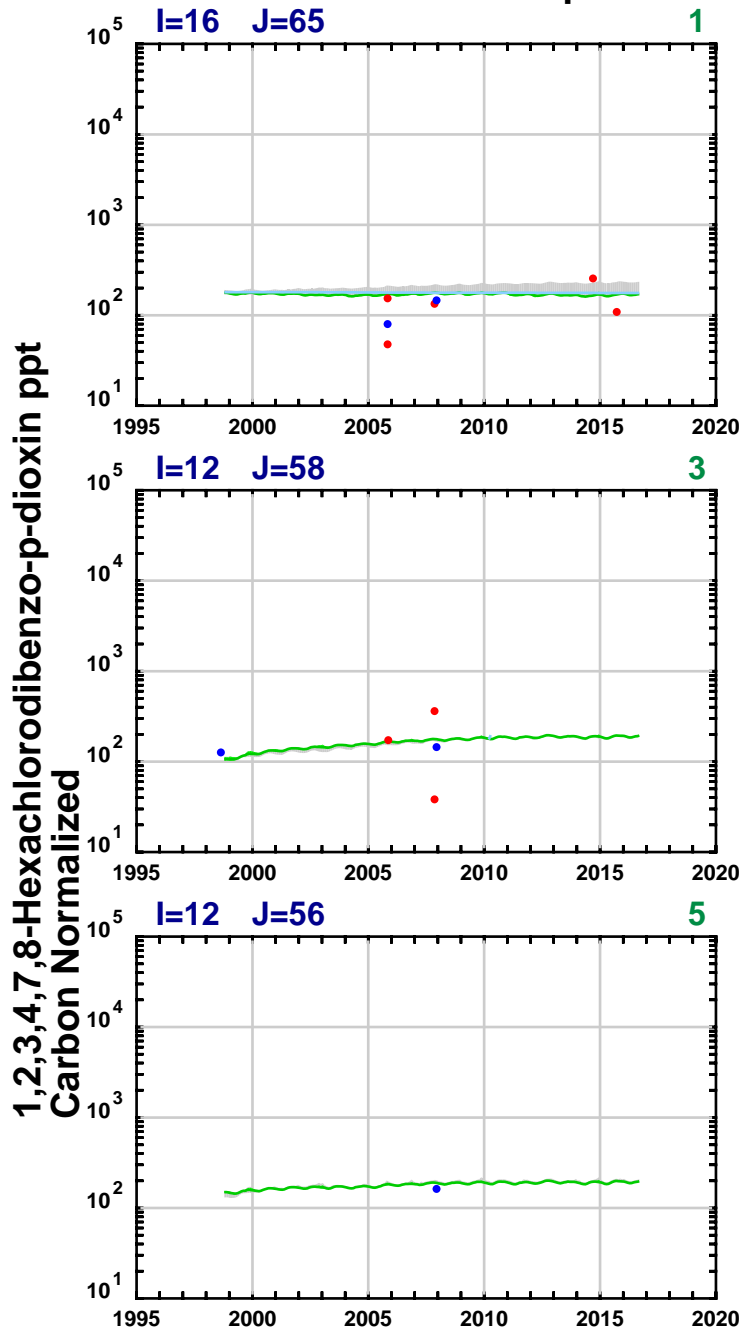
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

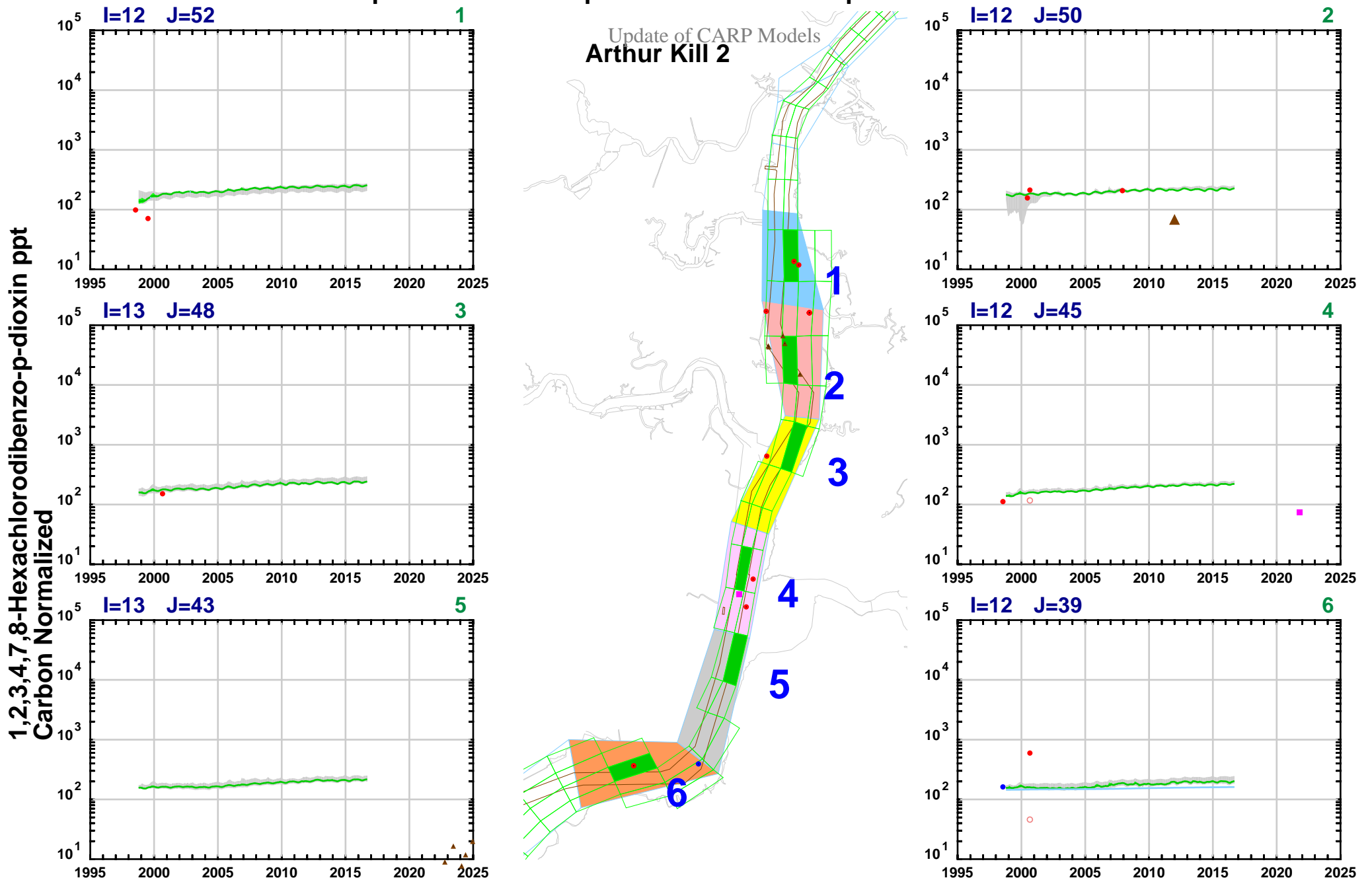


RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

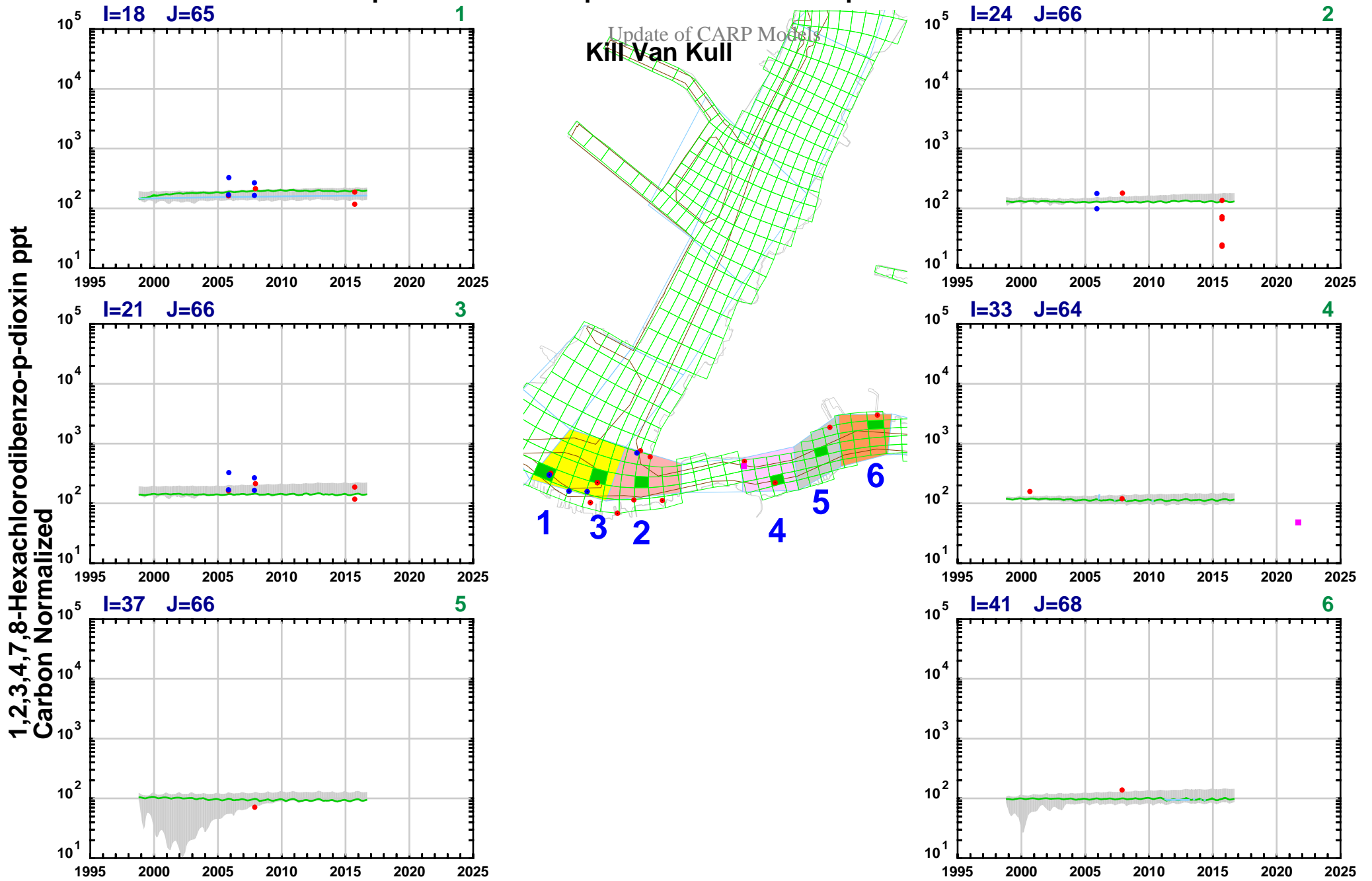


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data   ● Off-channel data   ▲ Dredge data**  
**■ CARP2 In-channel   ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment



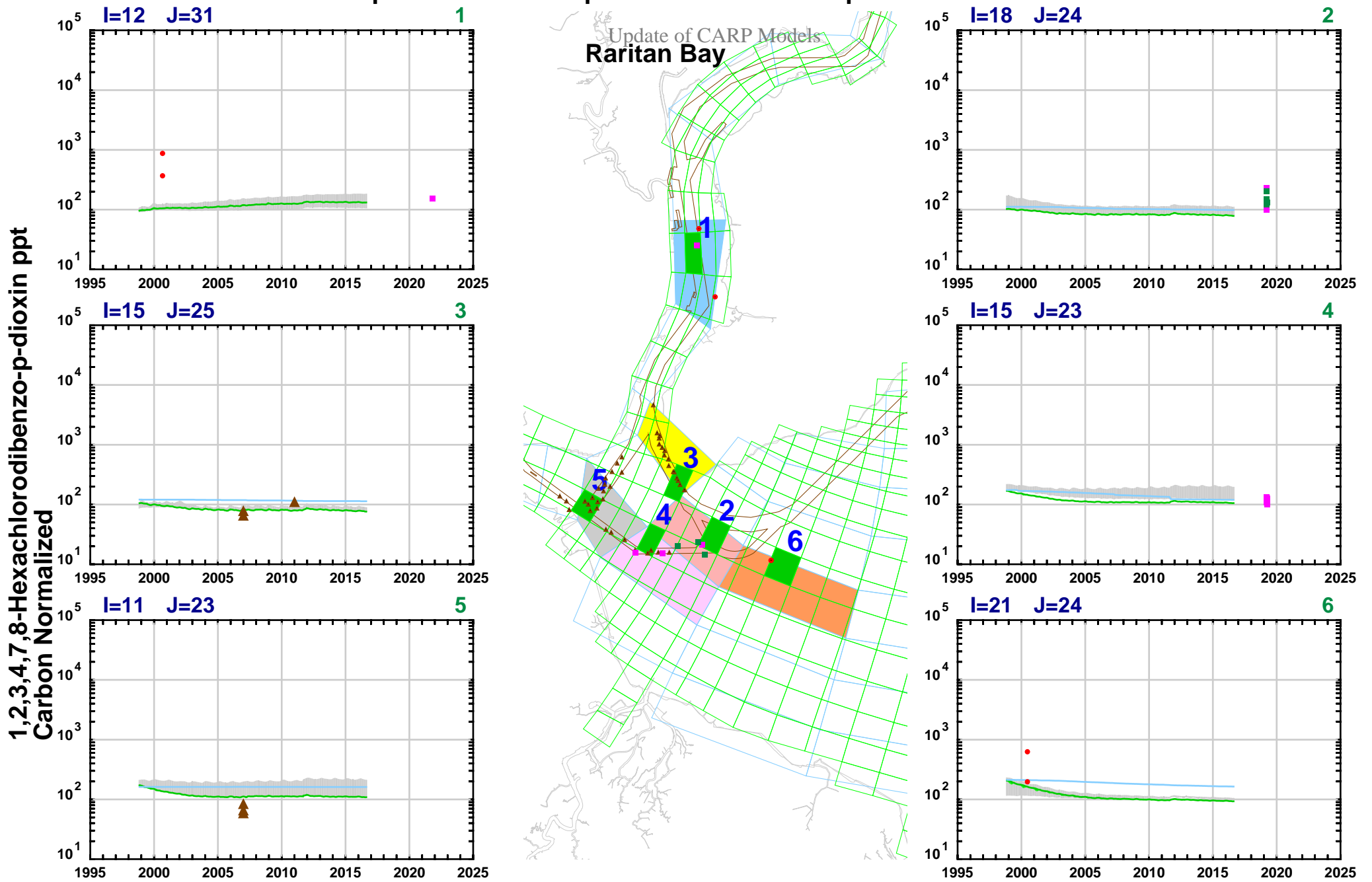
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

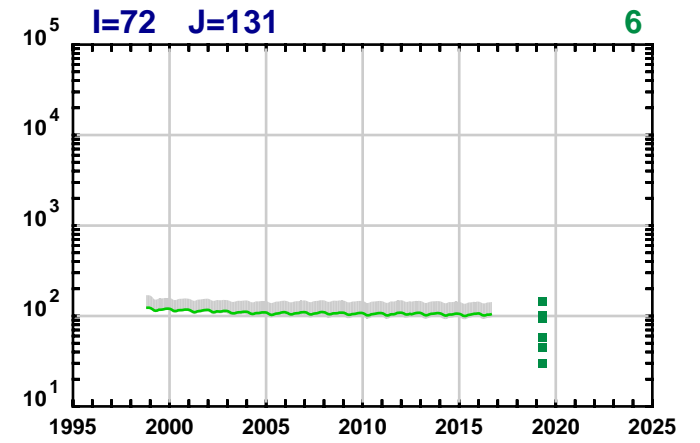
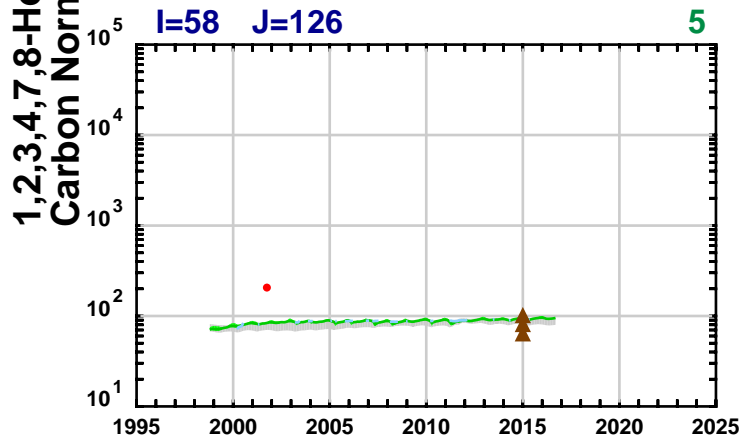
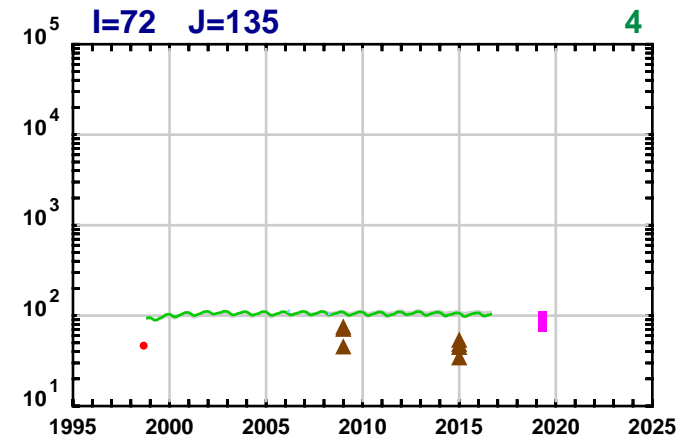
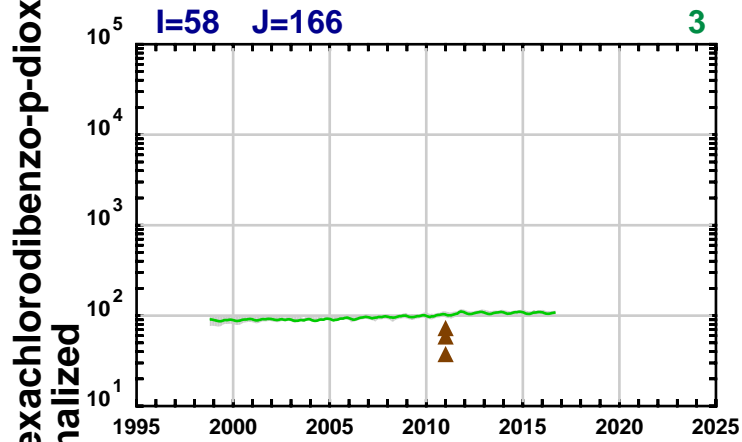
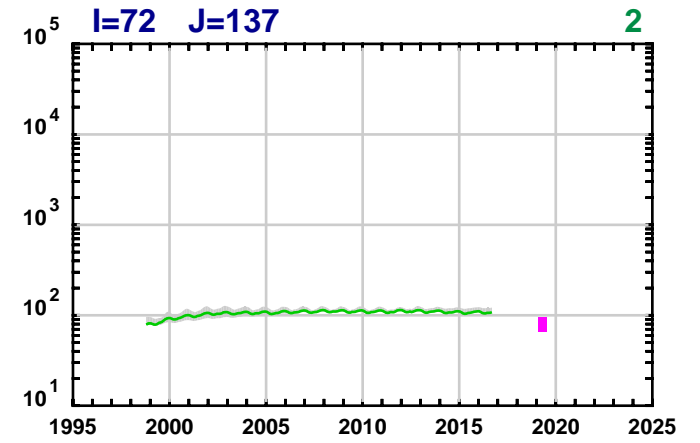
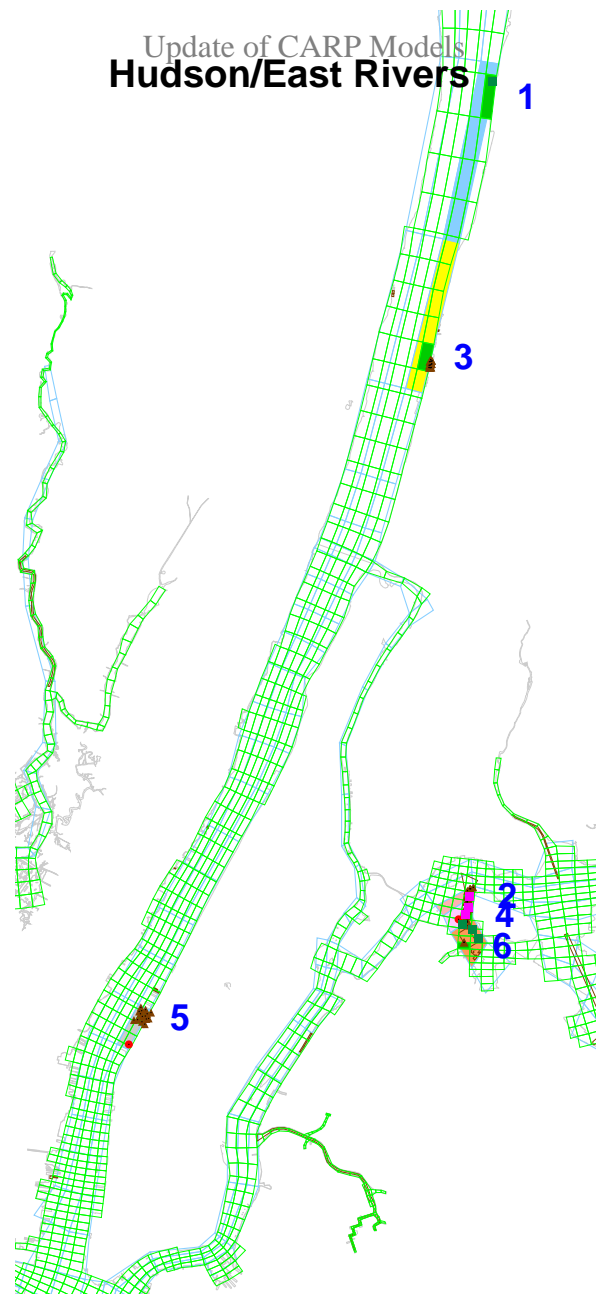
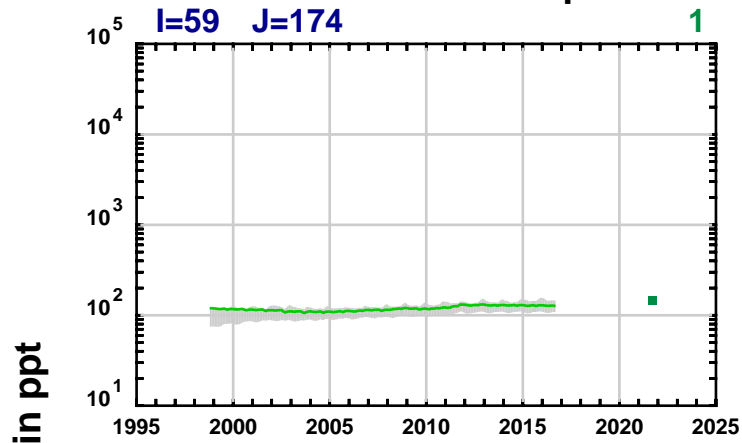


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data**   **● Off-channel data**   **▲ Dredge data**  
**■ CARP2 In-channel**   **■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

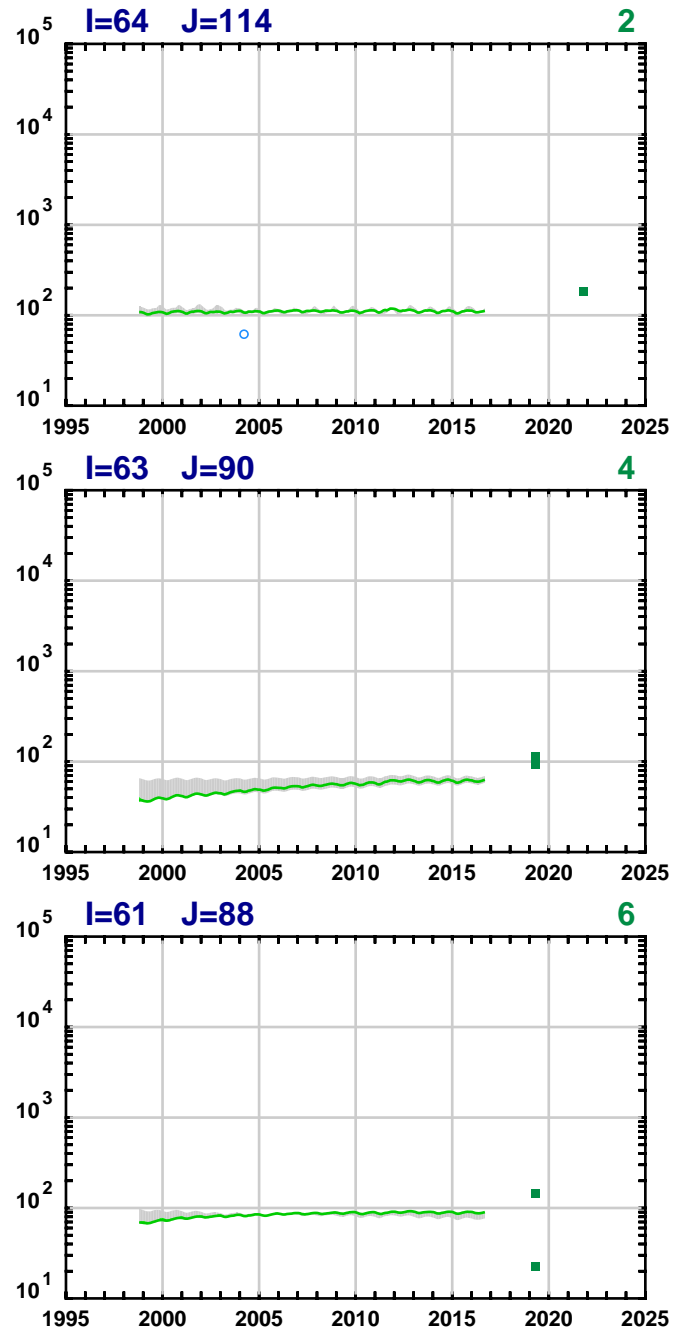
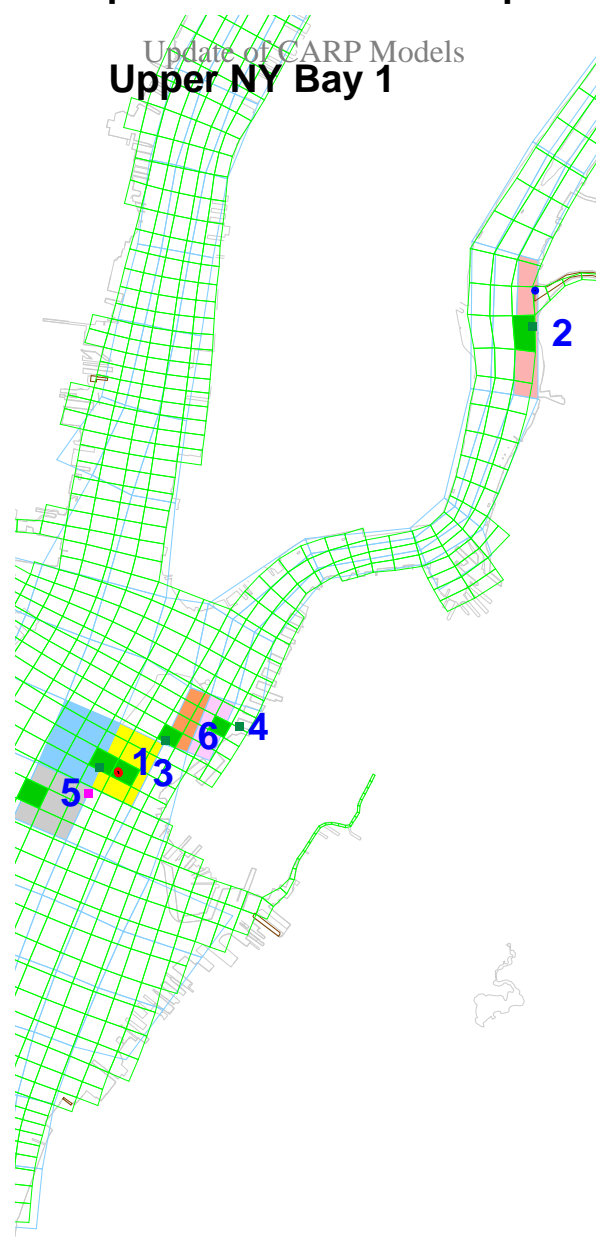
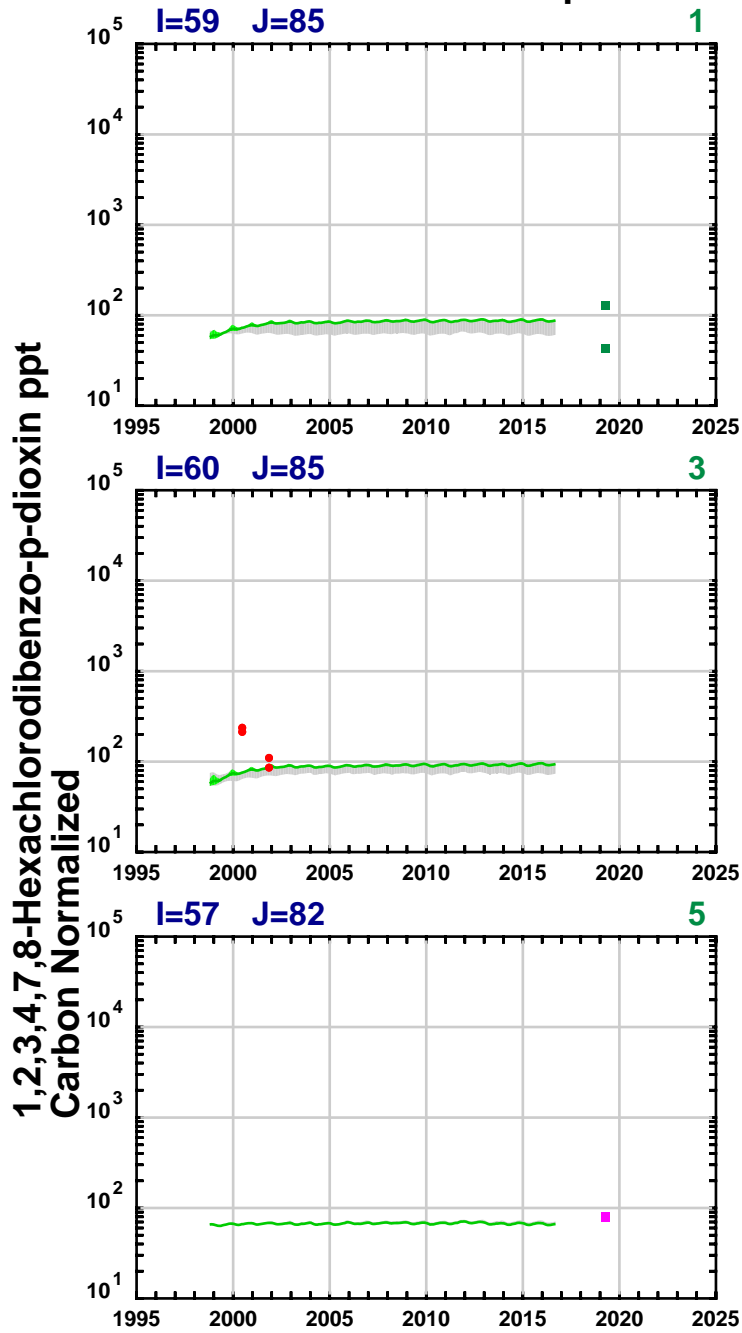


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data ● Off-channel data ▲ Dredge data**  
**■ CARP2 In-channel ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

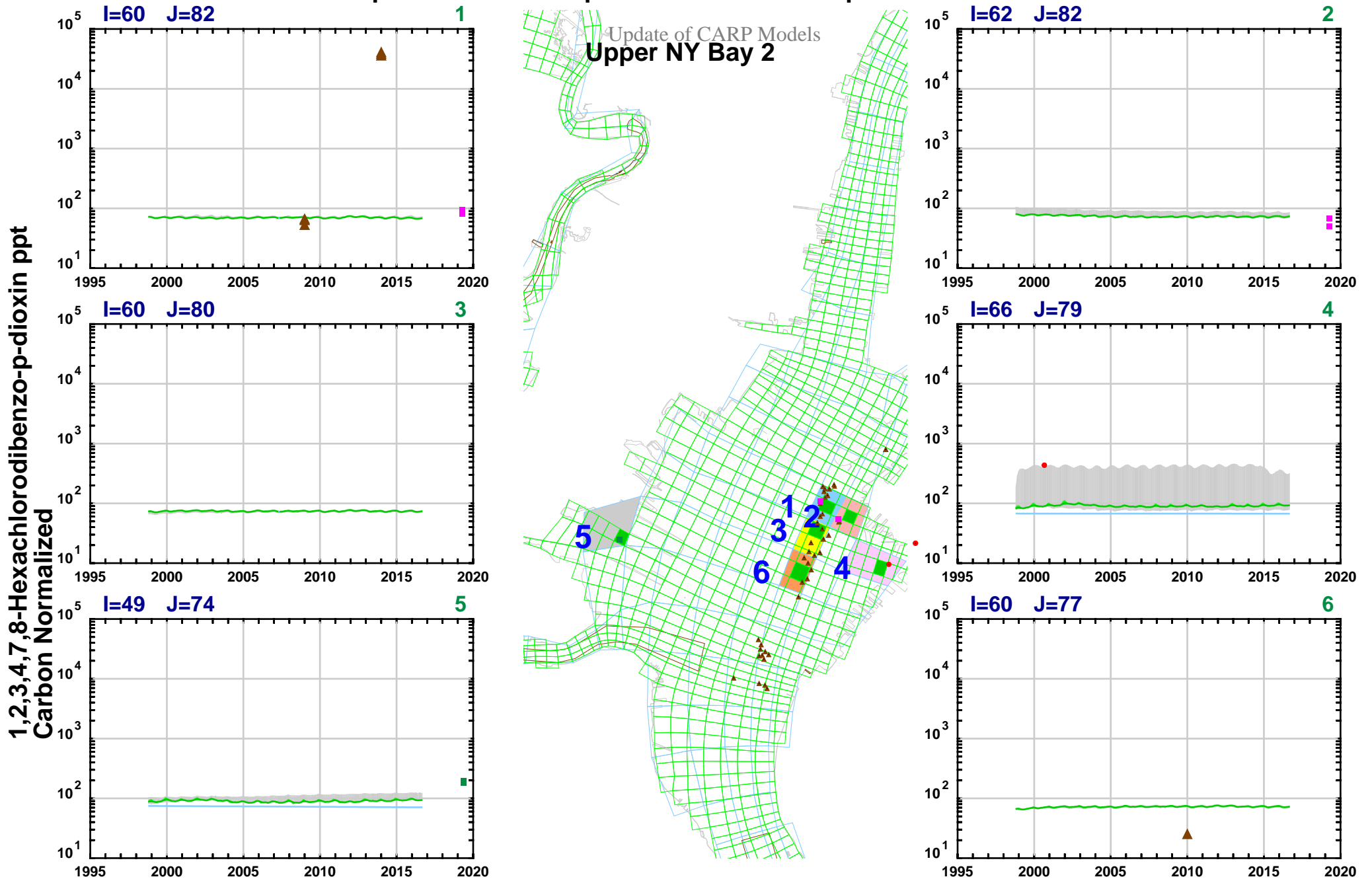


RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

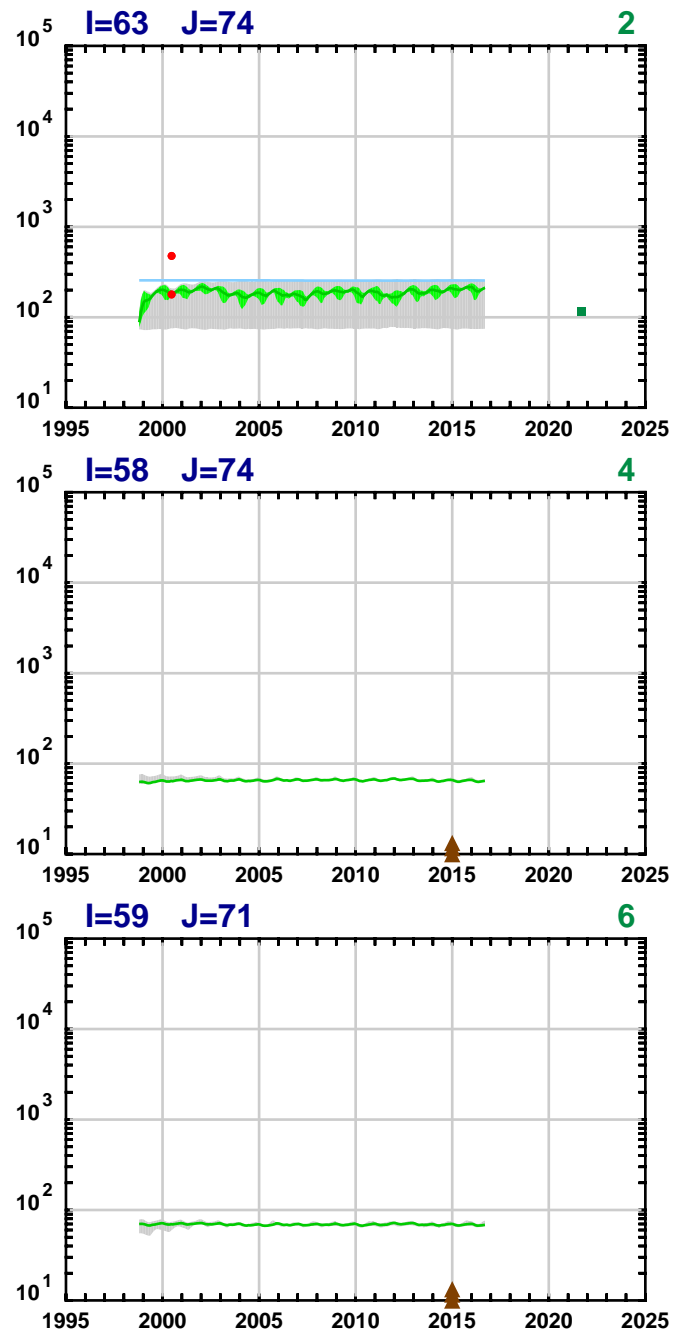
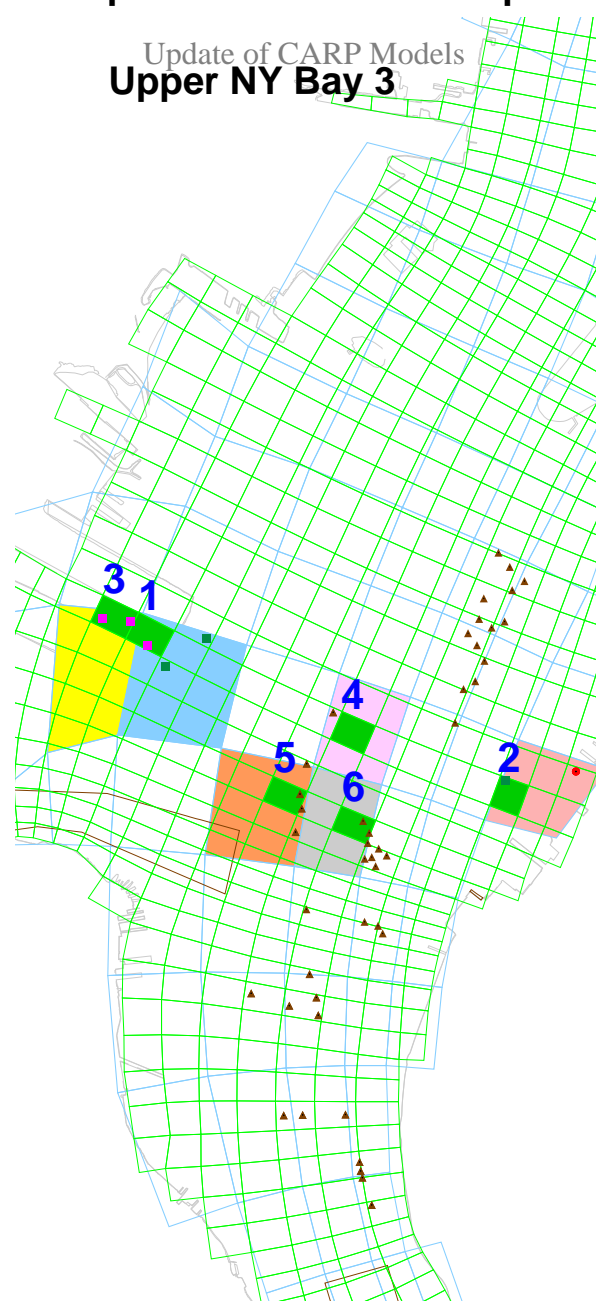
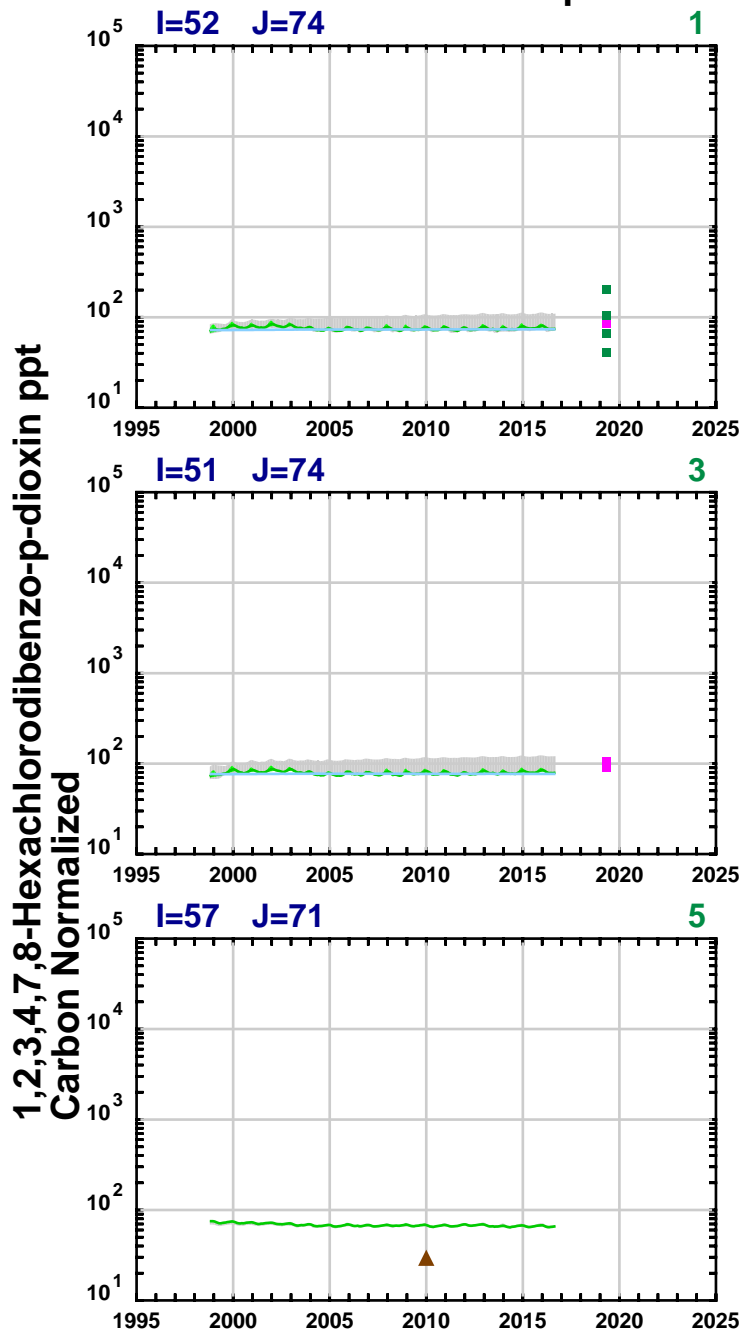


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

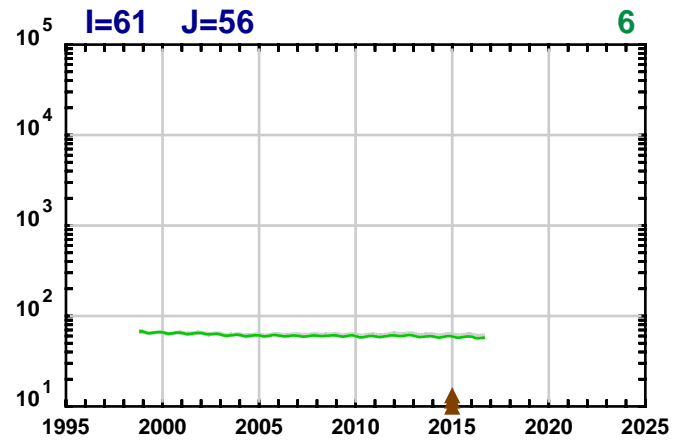
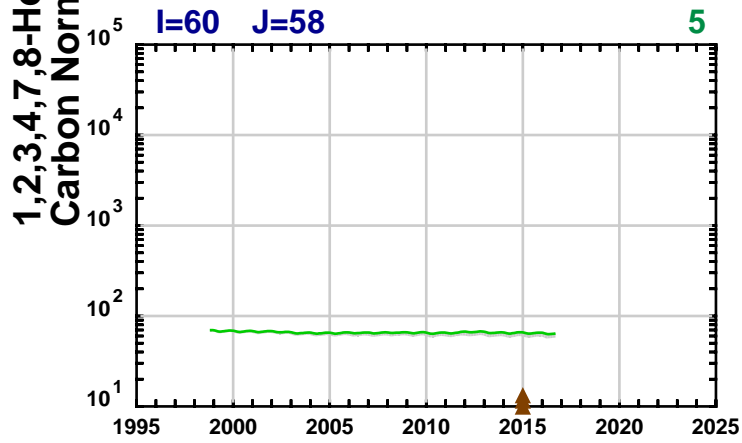
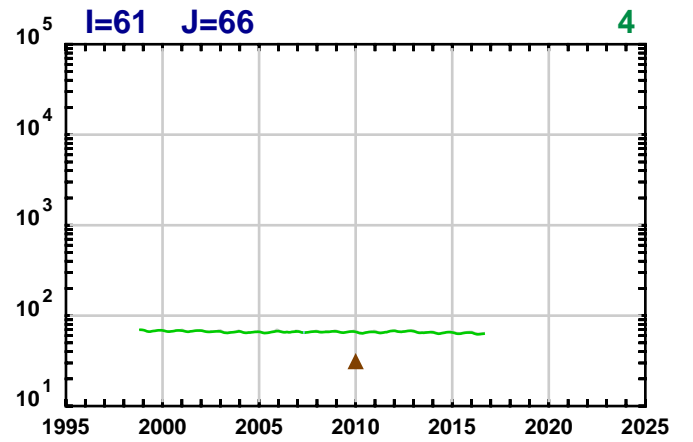
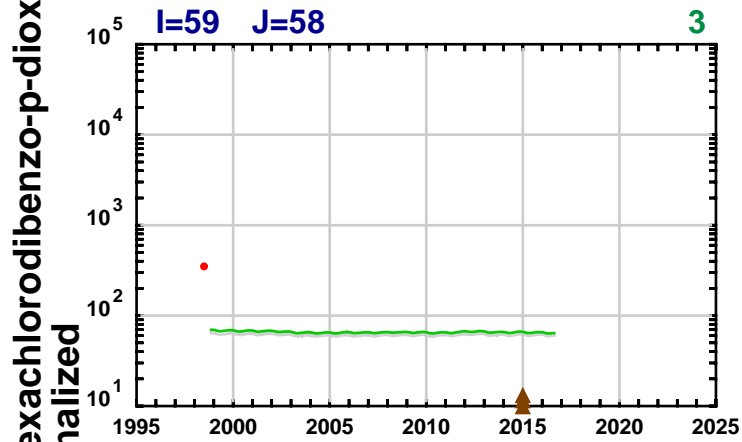
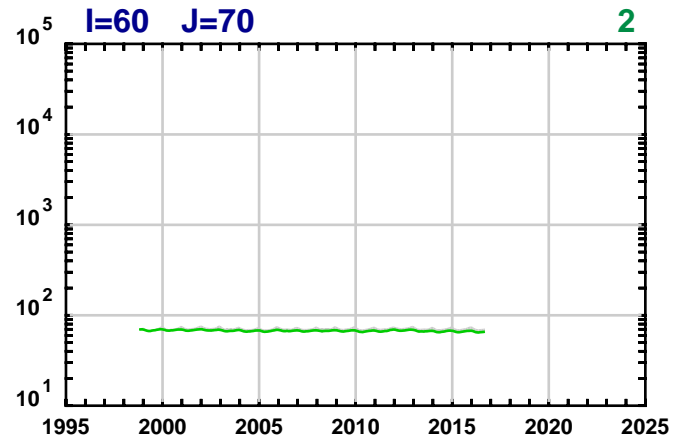
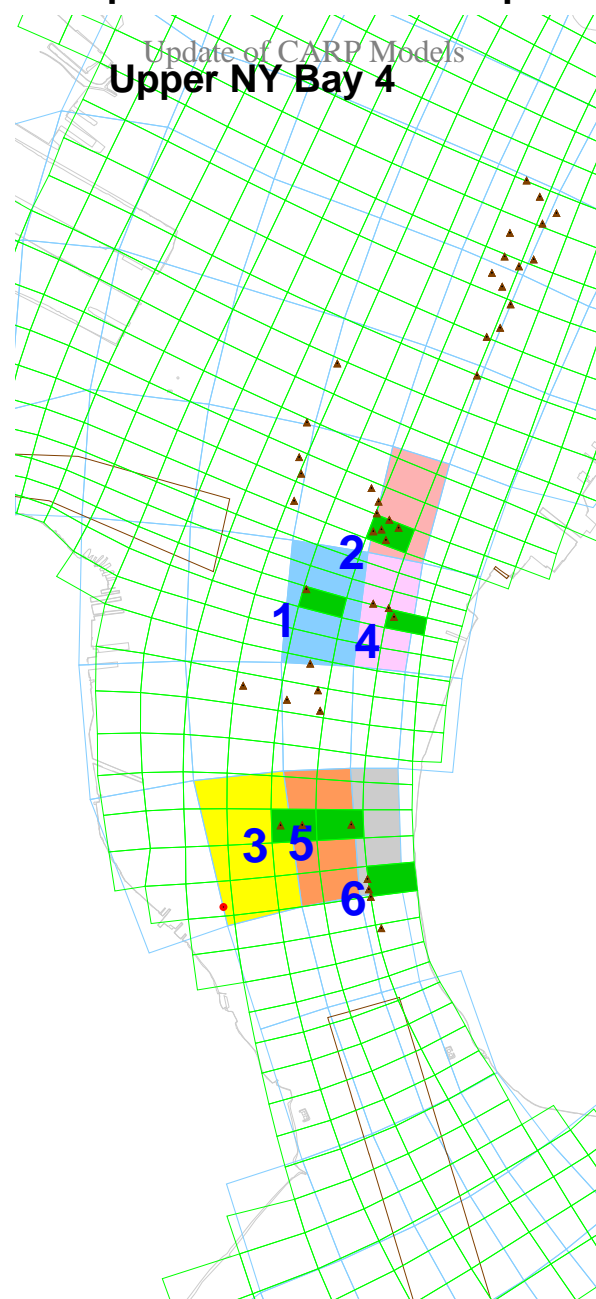
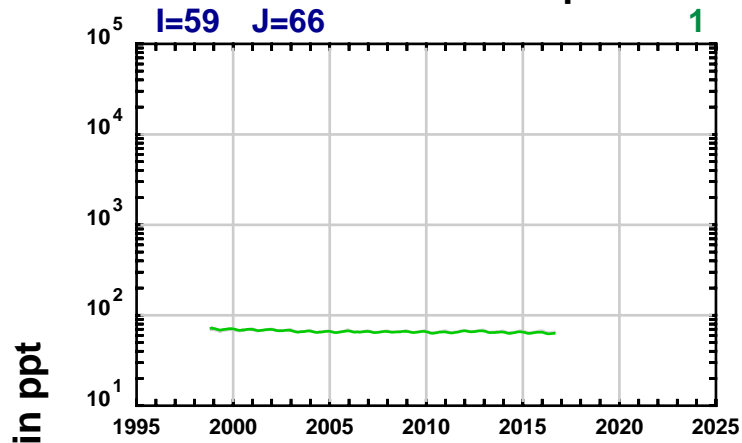


RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



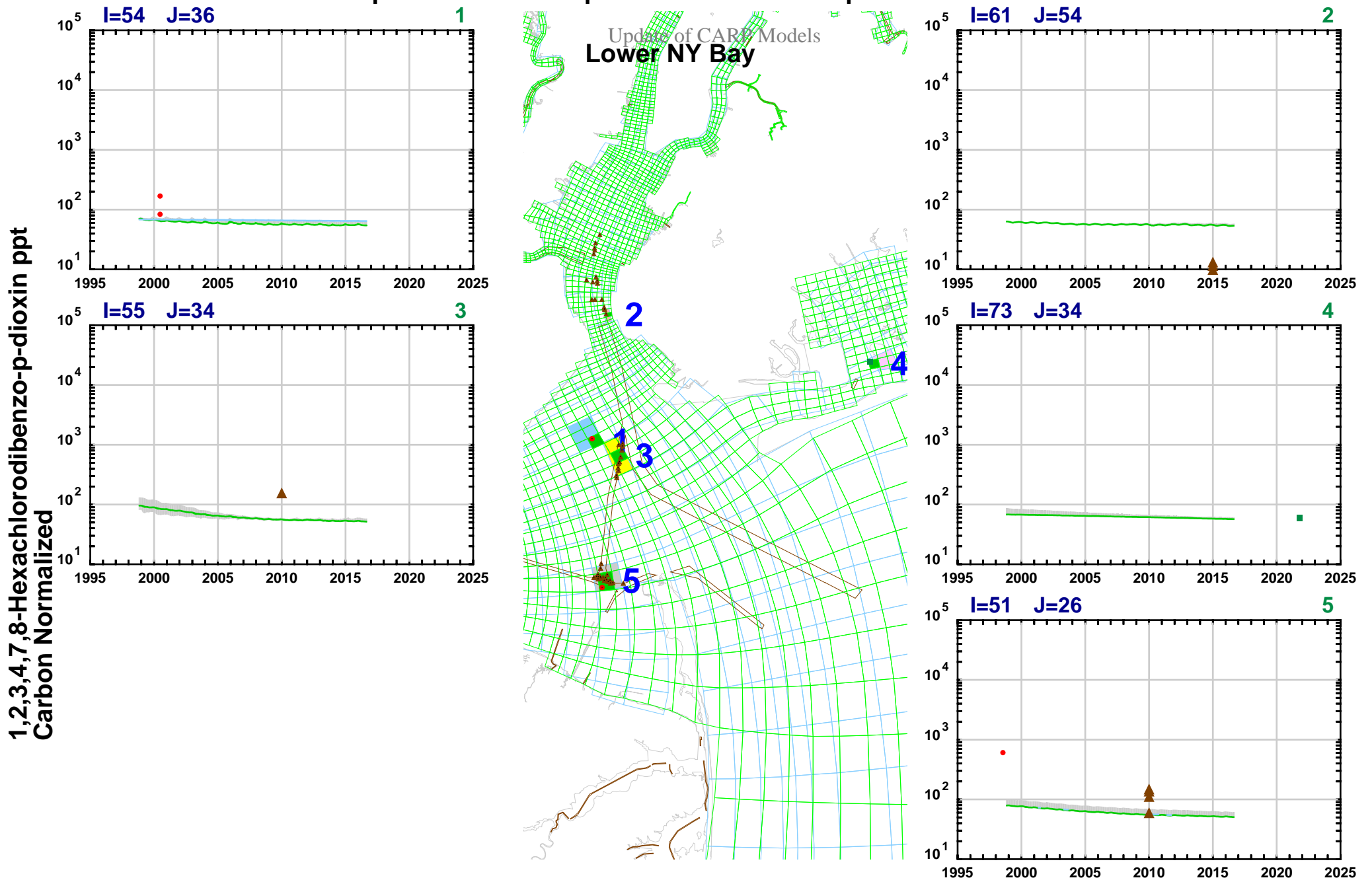
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data ● Off-channel data ▲ Dredge data**  
**■ CARP2 In-channel ■ CARP2 Off-channel**



# Top 15 cm data comparison with model top 10 cm sediment



**RUN18\_S3**

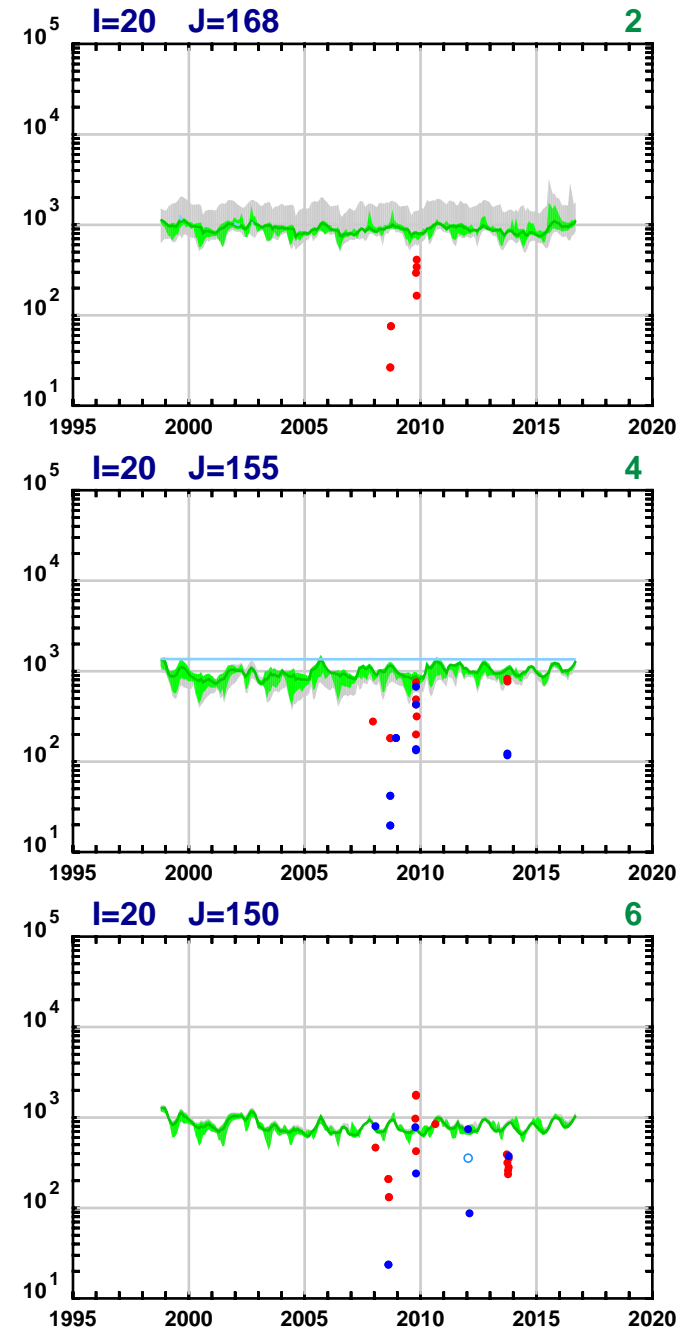
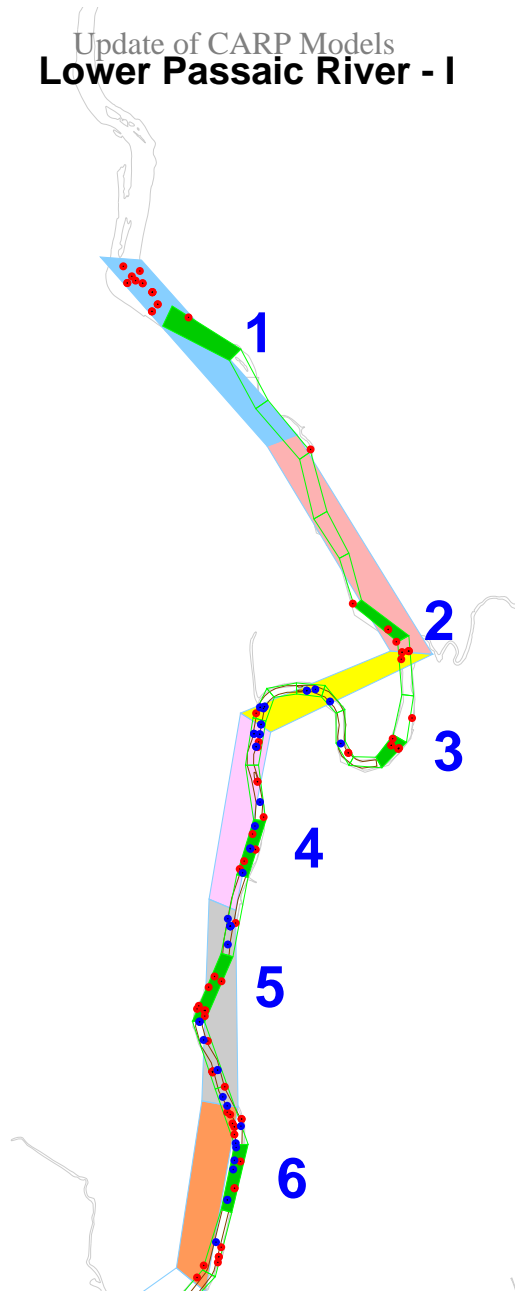
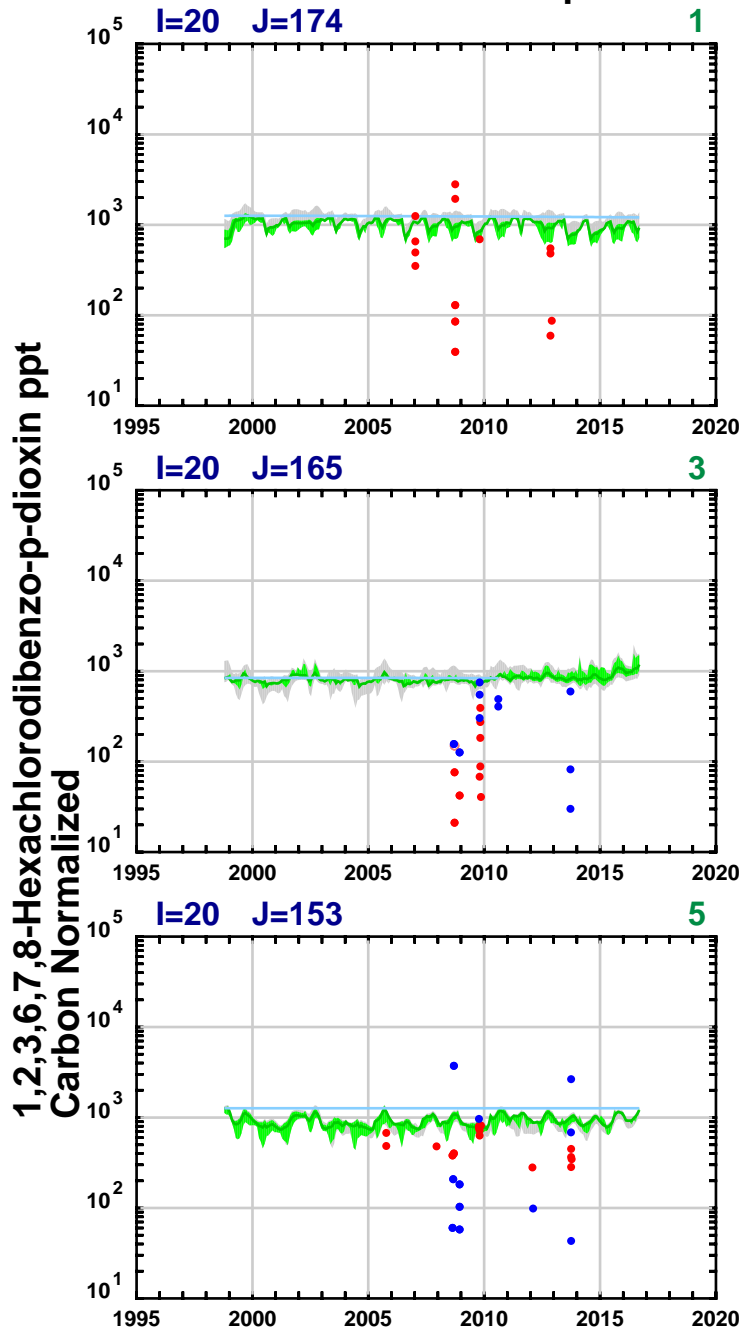
**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data   ● Off-channel data   ▲ Dredge data**  
**■ CARP2 In-channel   ■ CARP2 Off-channel**



# Top 15 cm data comparison with model top 10 cm sediment

## Update of CARP Models Lower Passaic River - I

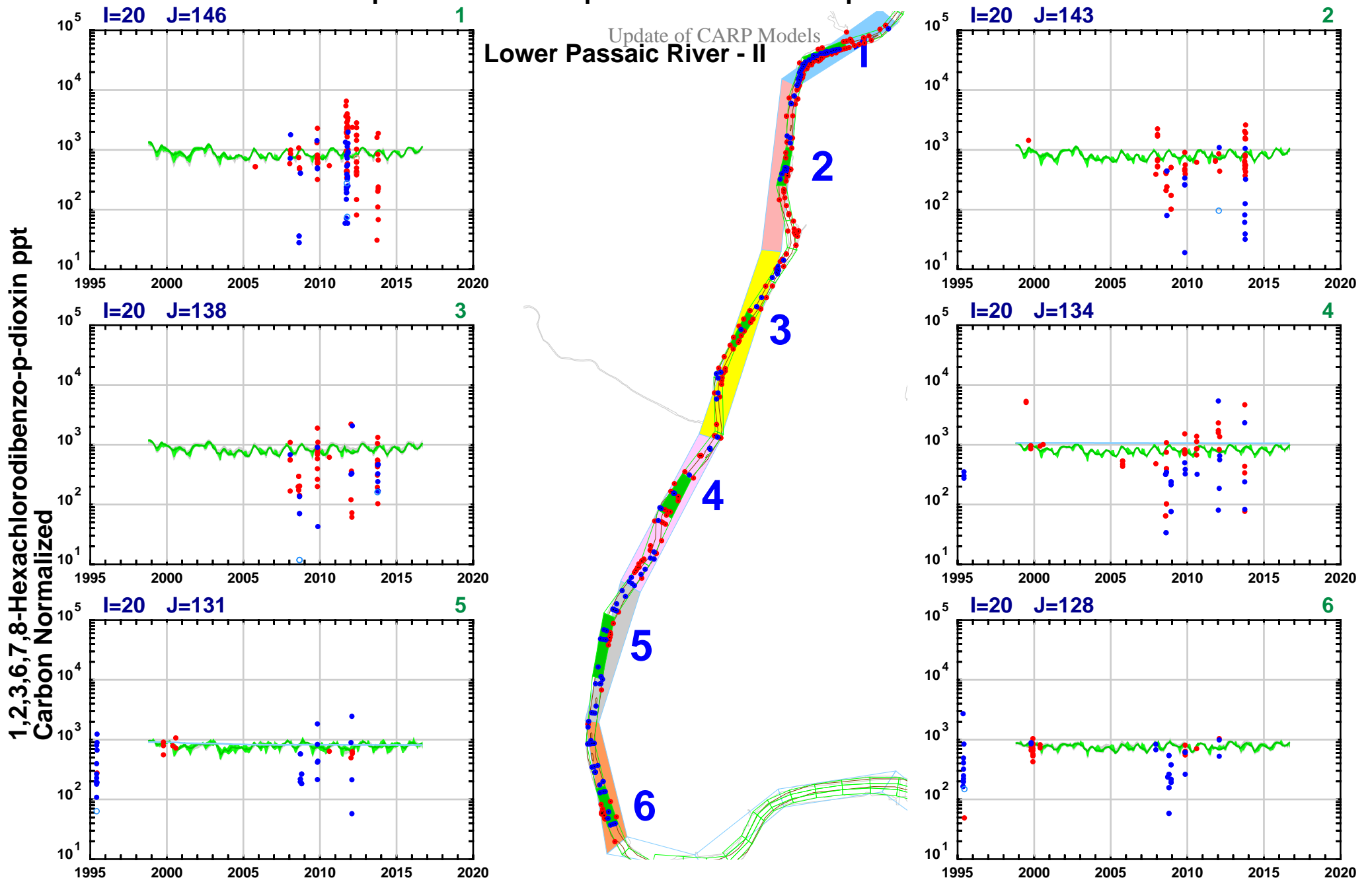


RUN18\_S3

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

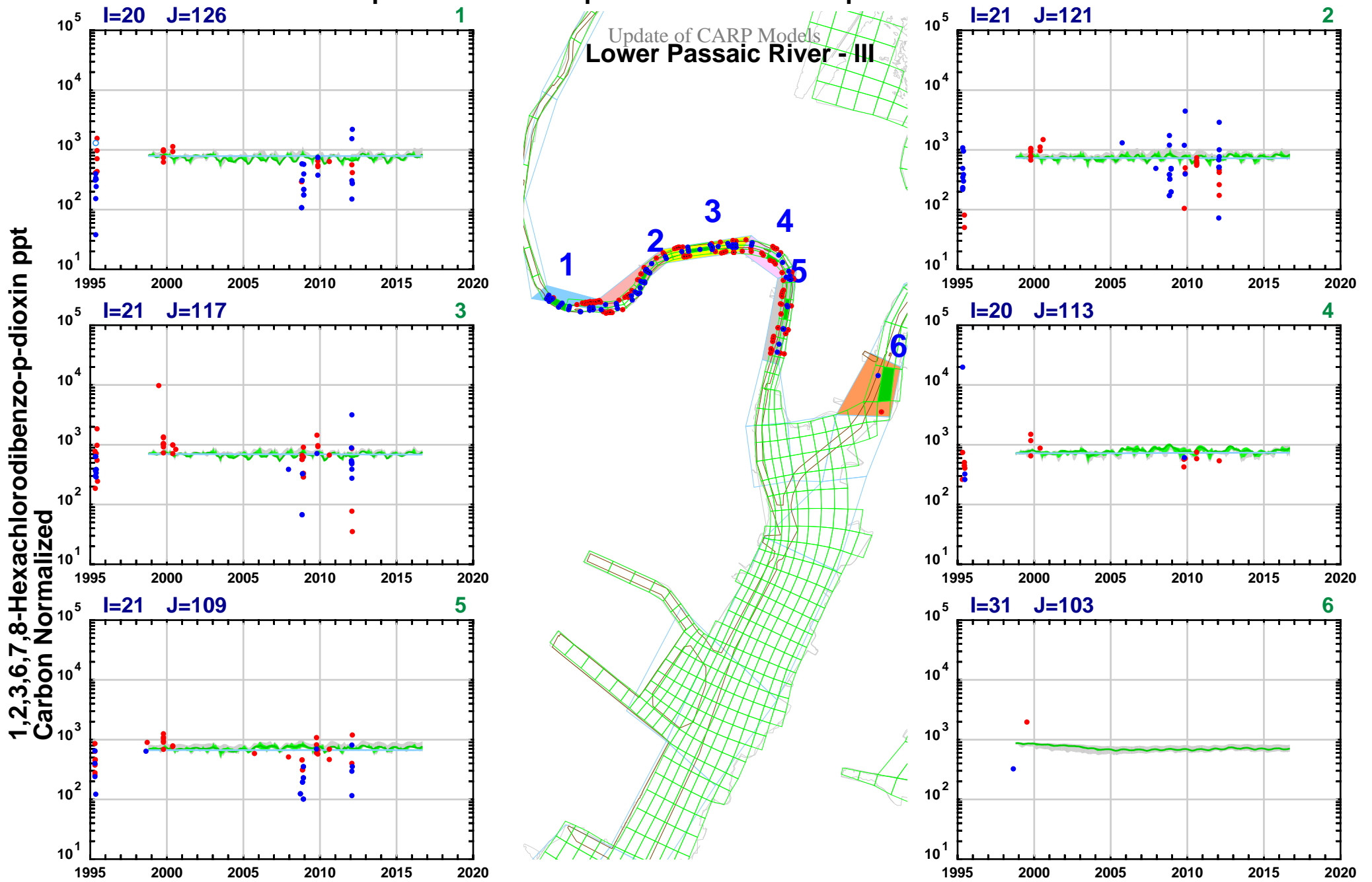


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

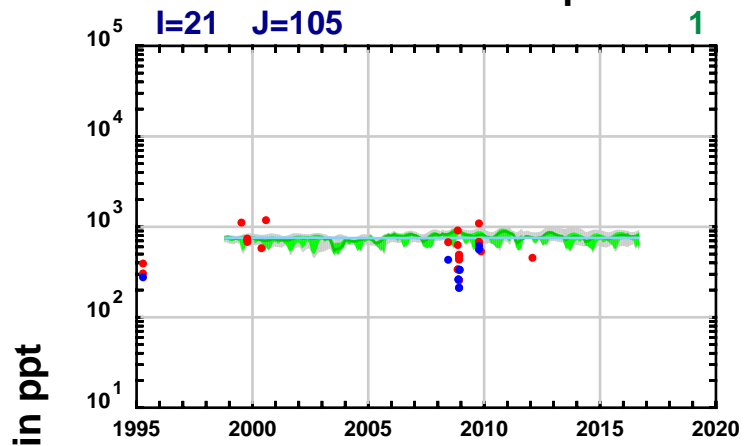


**RUN18\_S3**

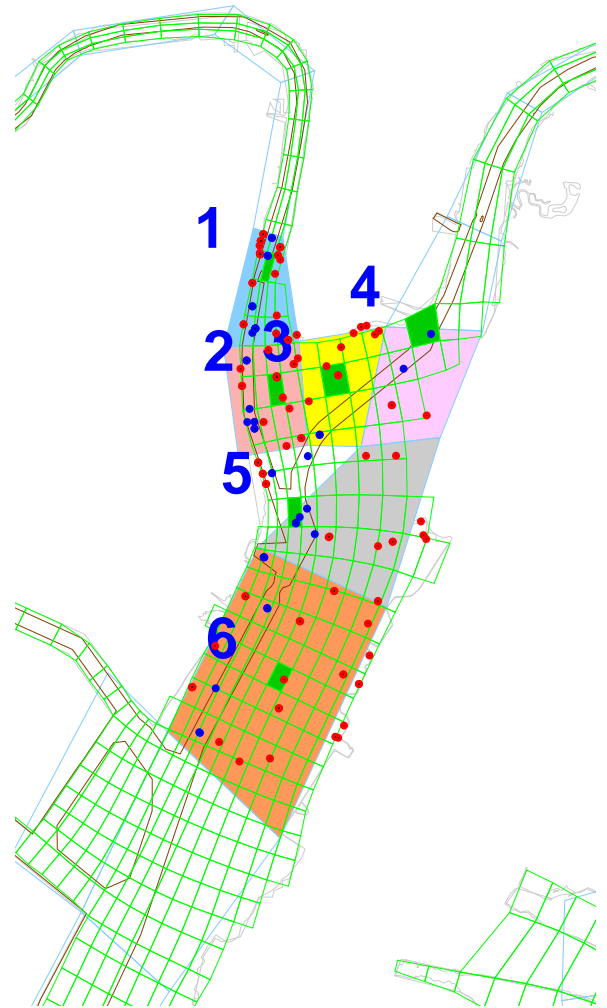
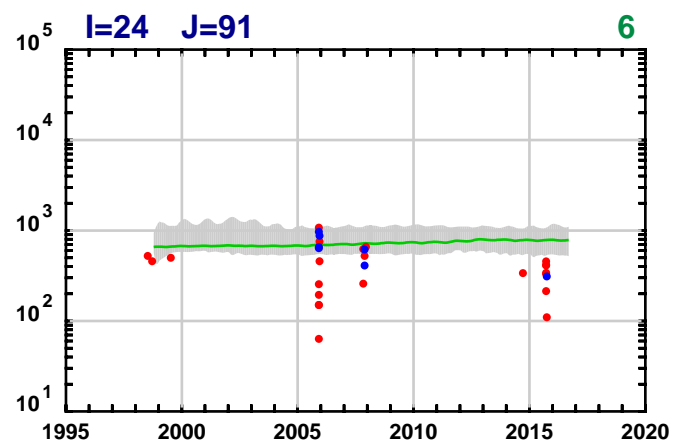
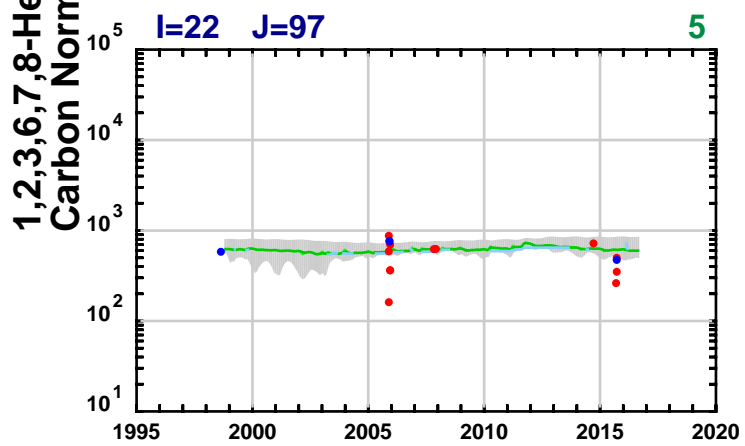
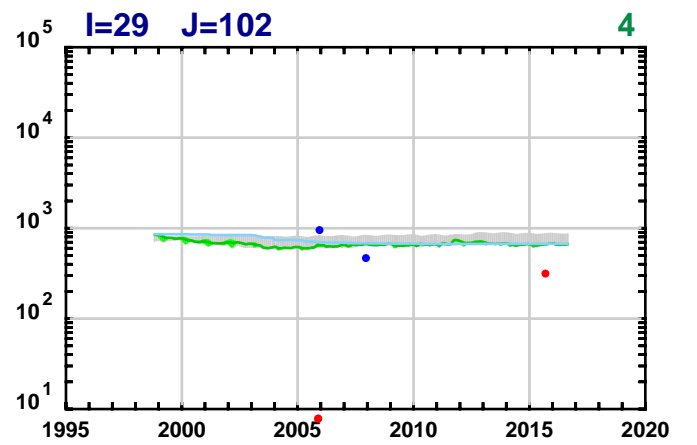
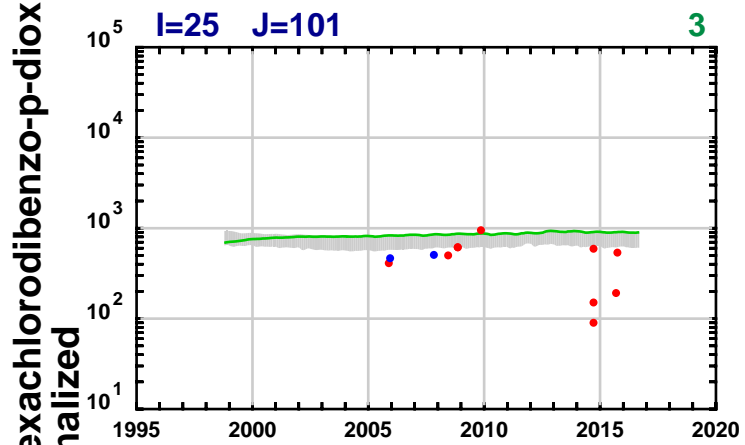
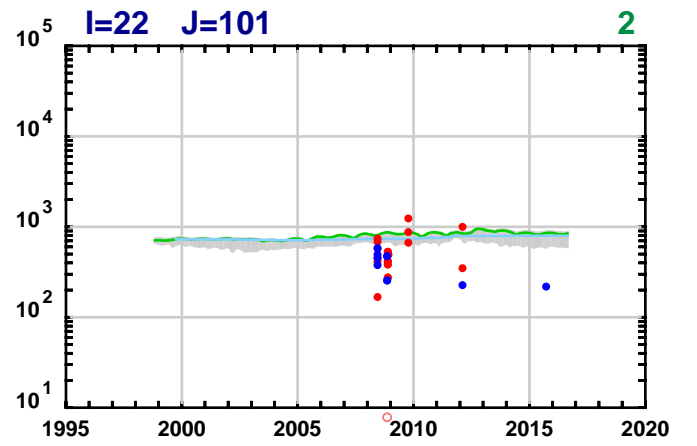
**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



Update of CARP Models  
Upper Newark Bay



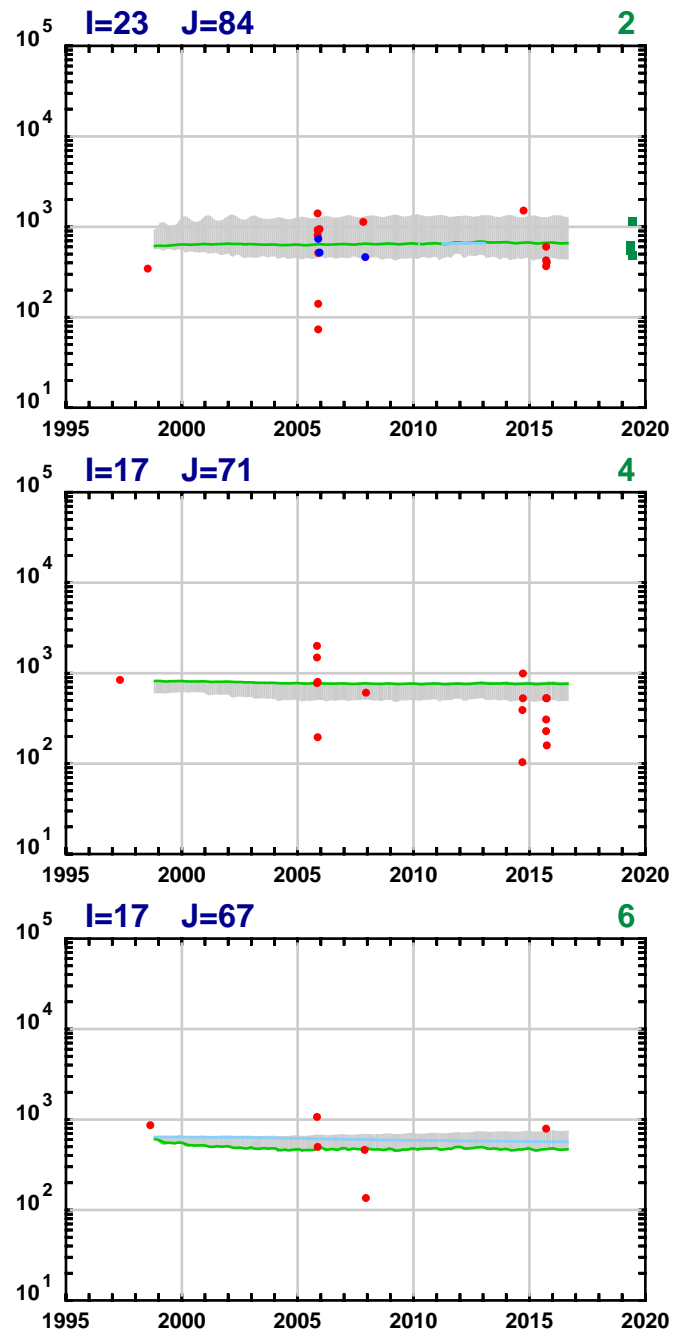
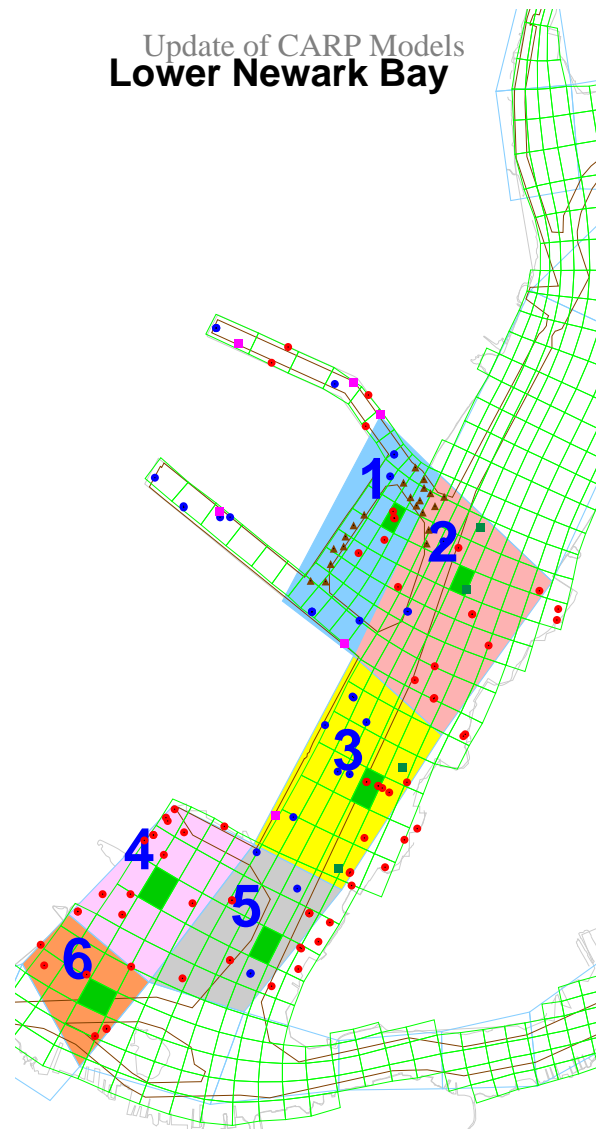
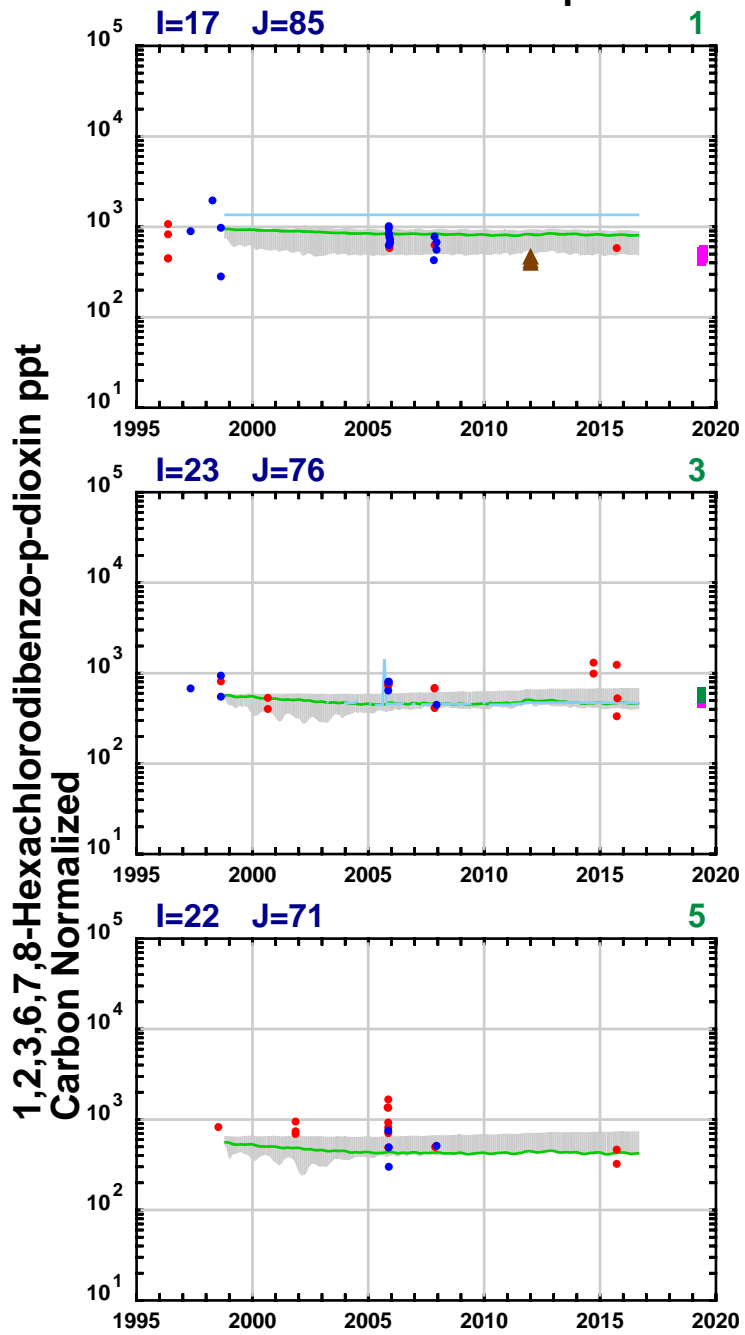
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin ppt  
Carbon Normalized

**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



Update of CARP Models  
Lower Newark Bay

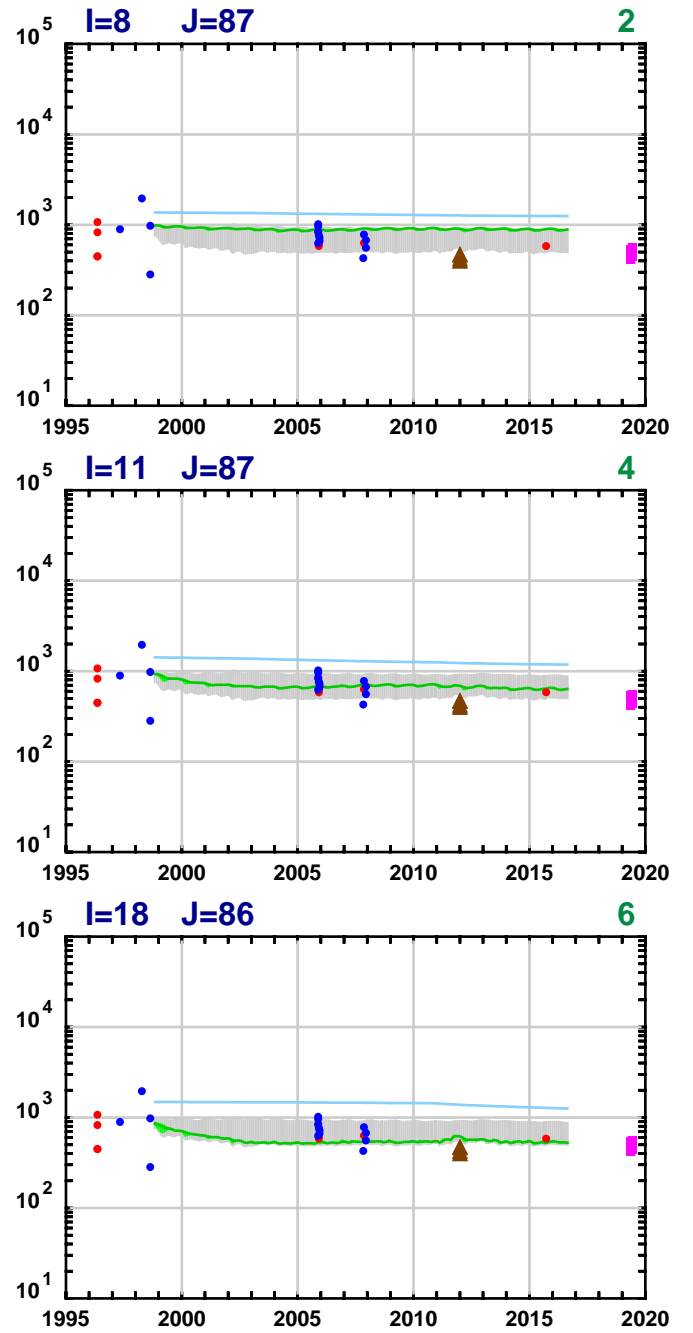
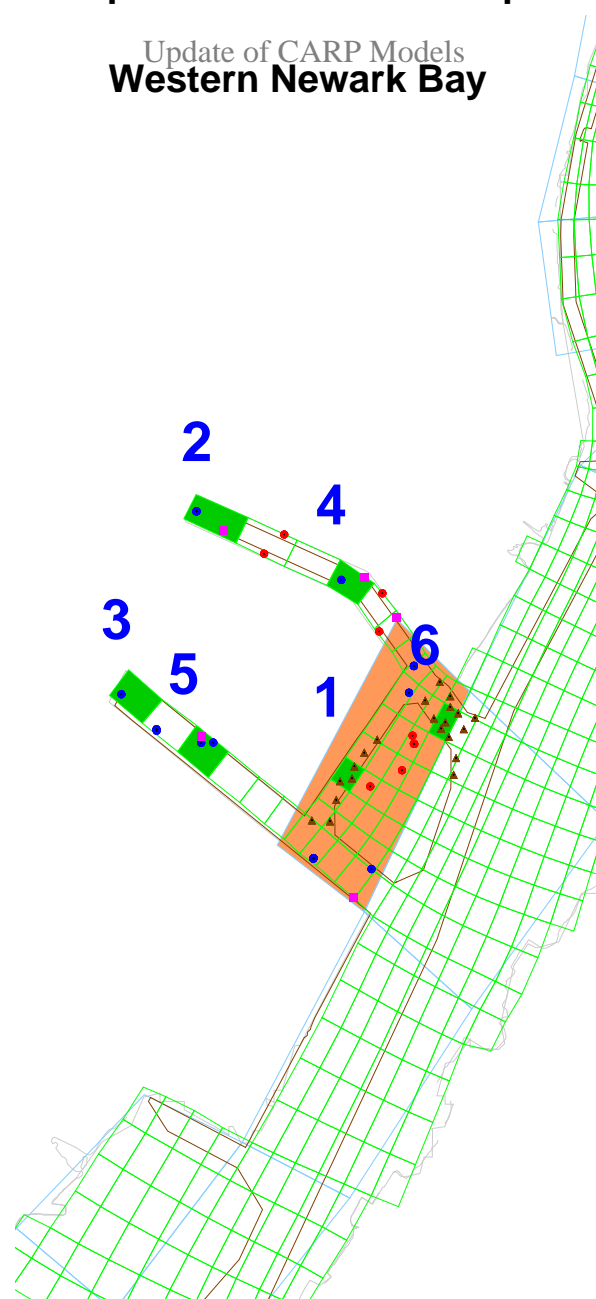
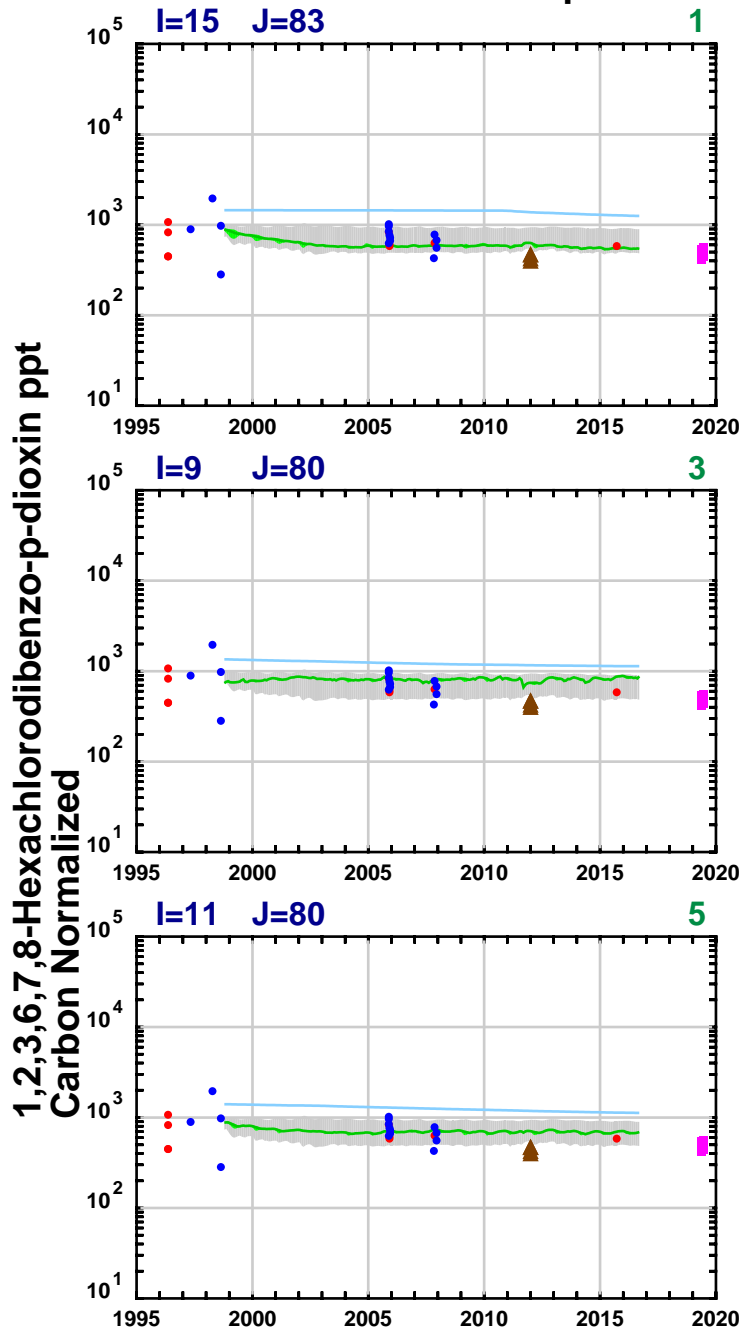
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay



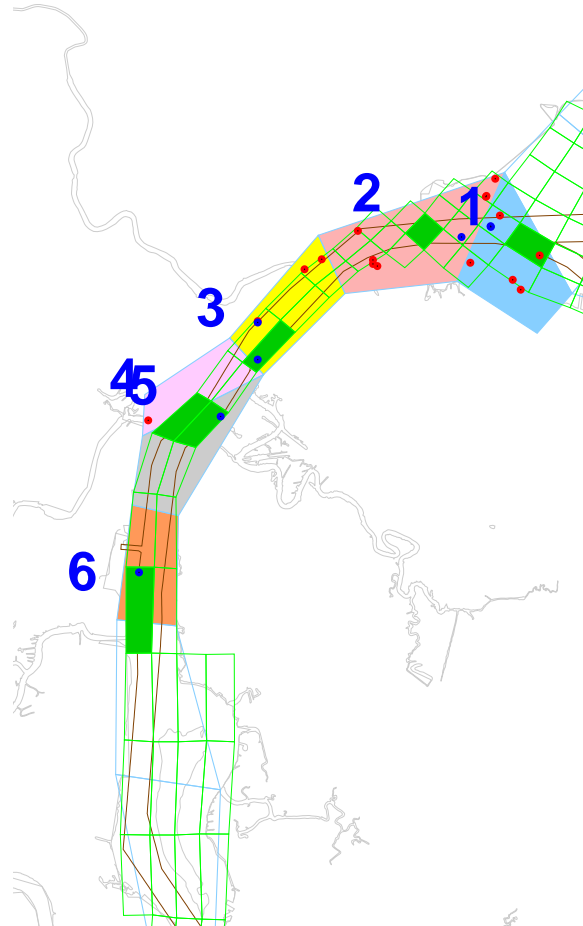
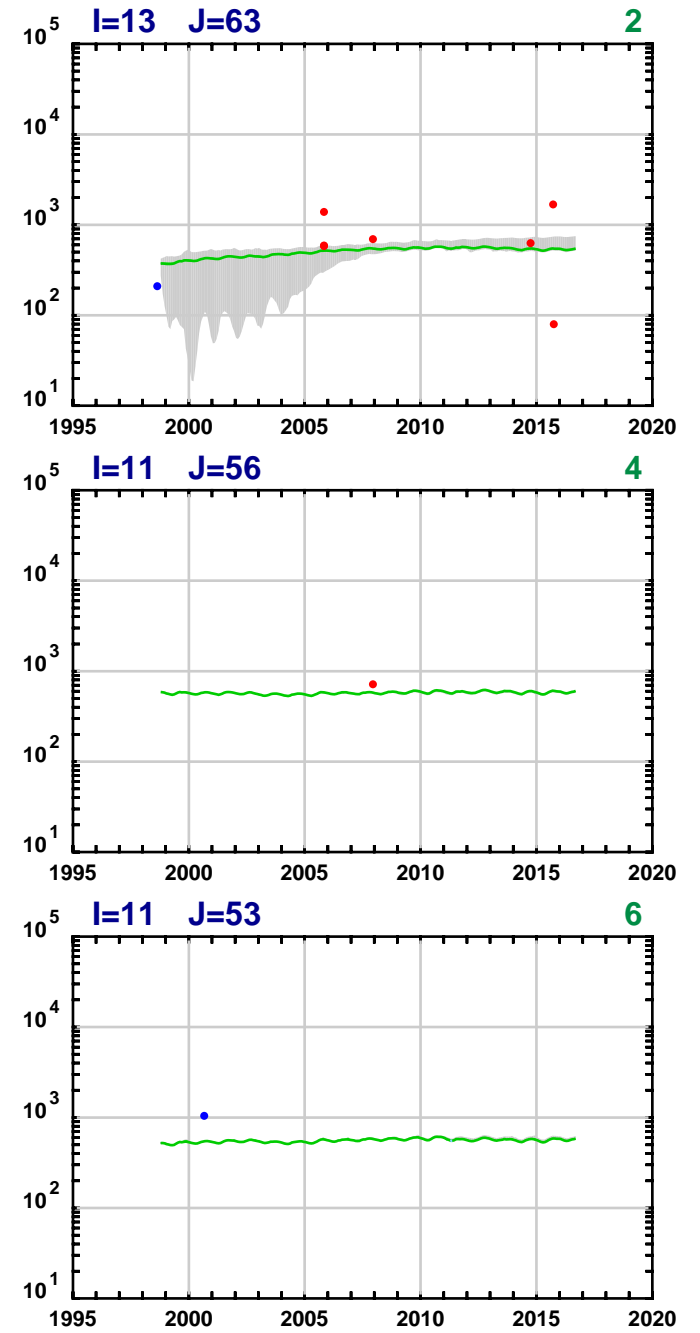
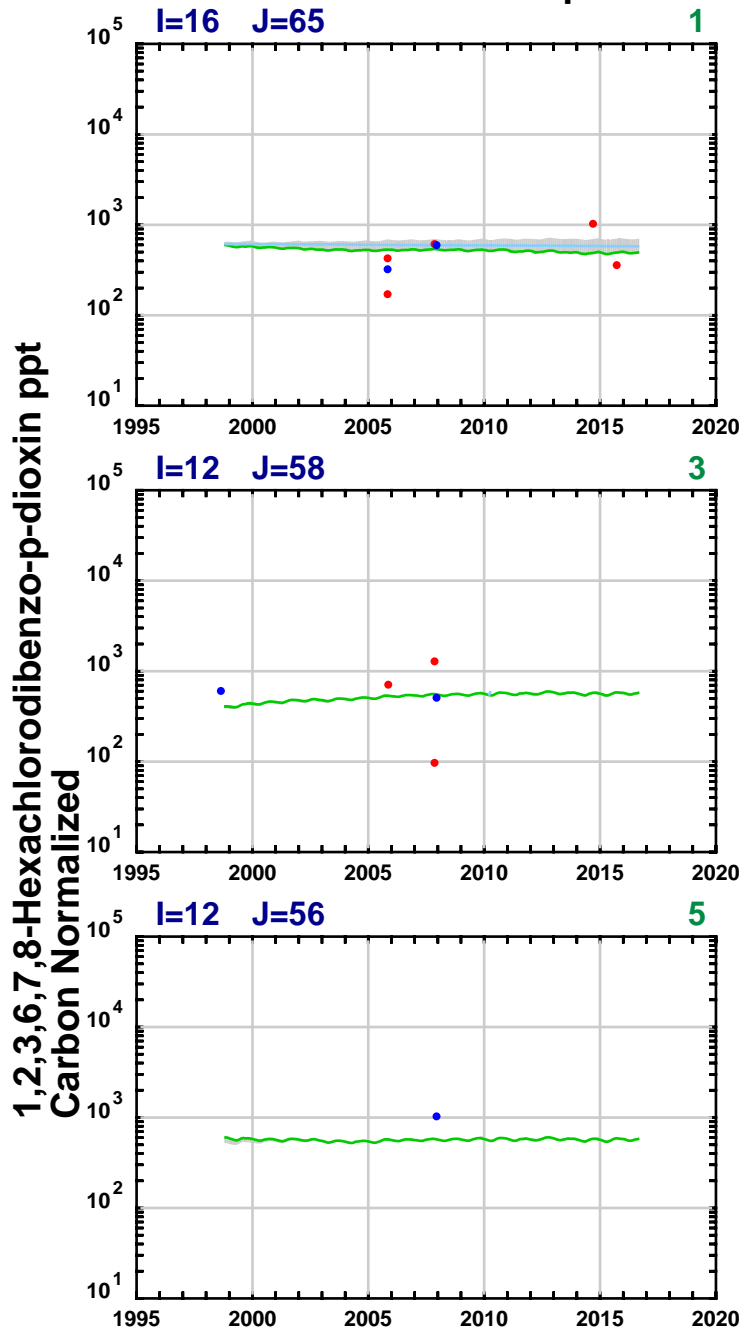
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1



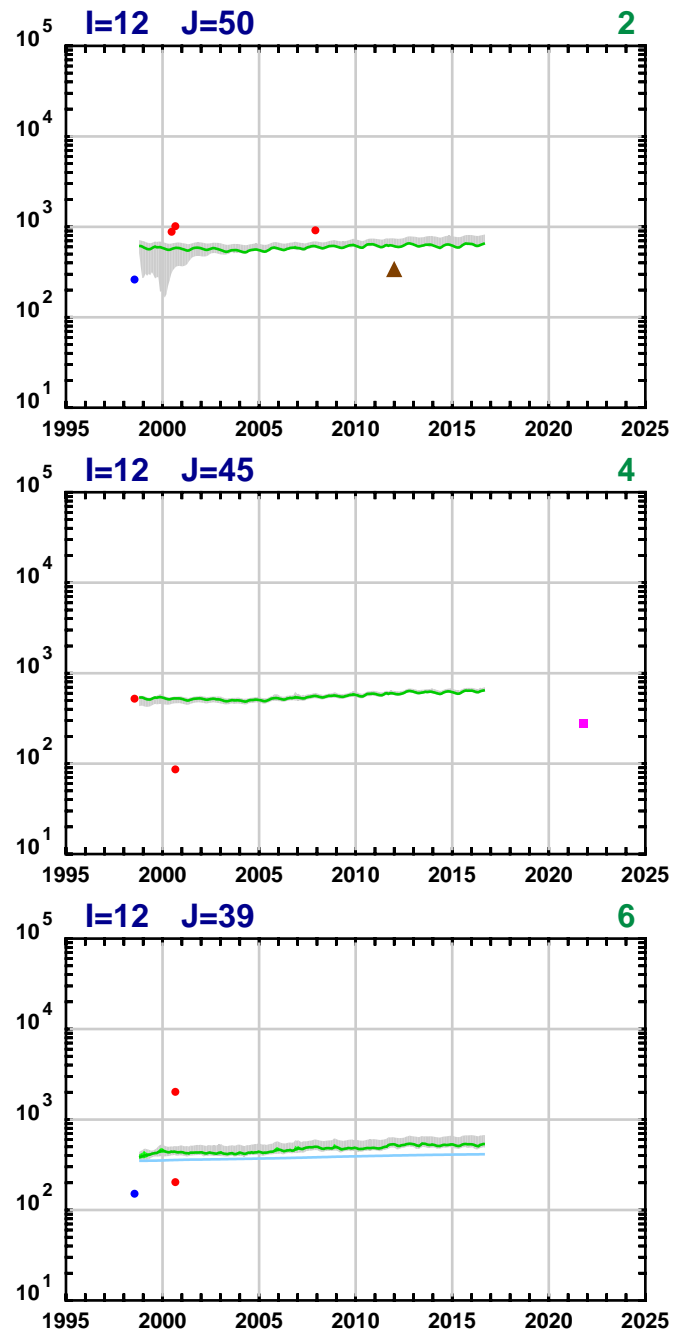
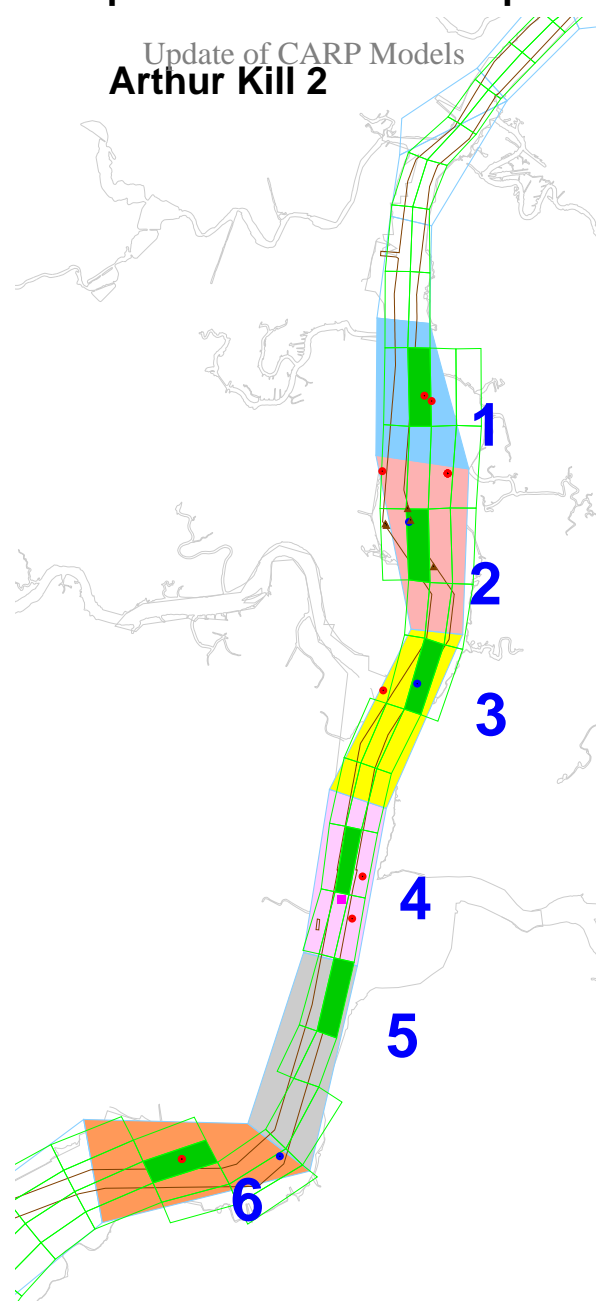
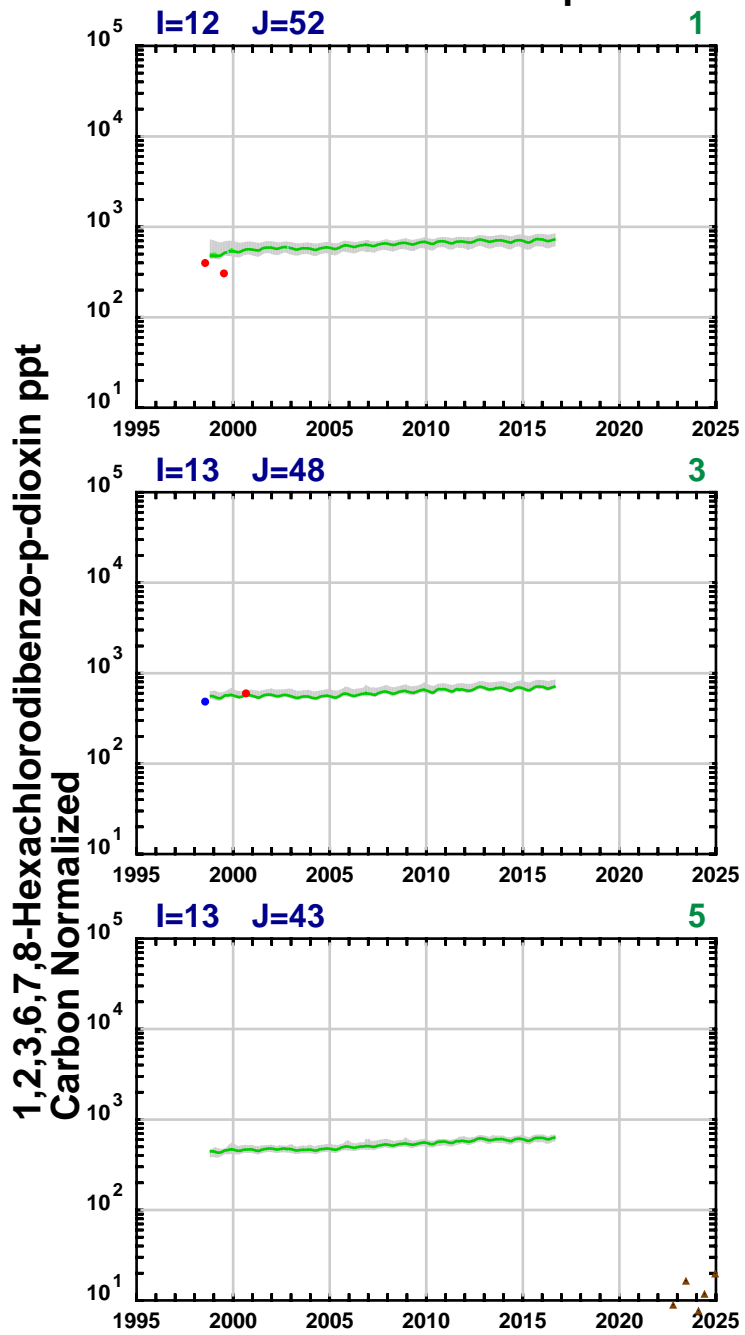
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

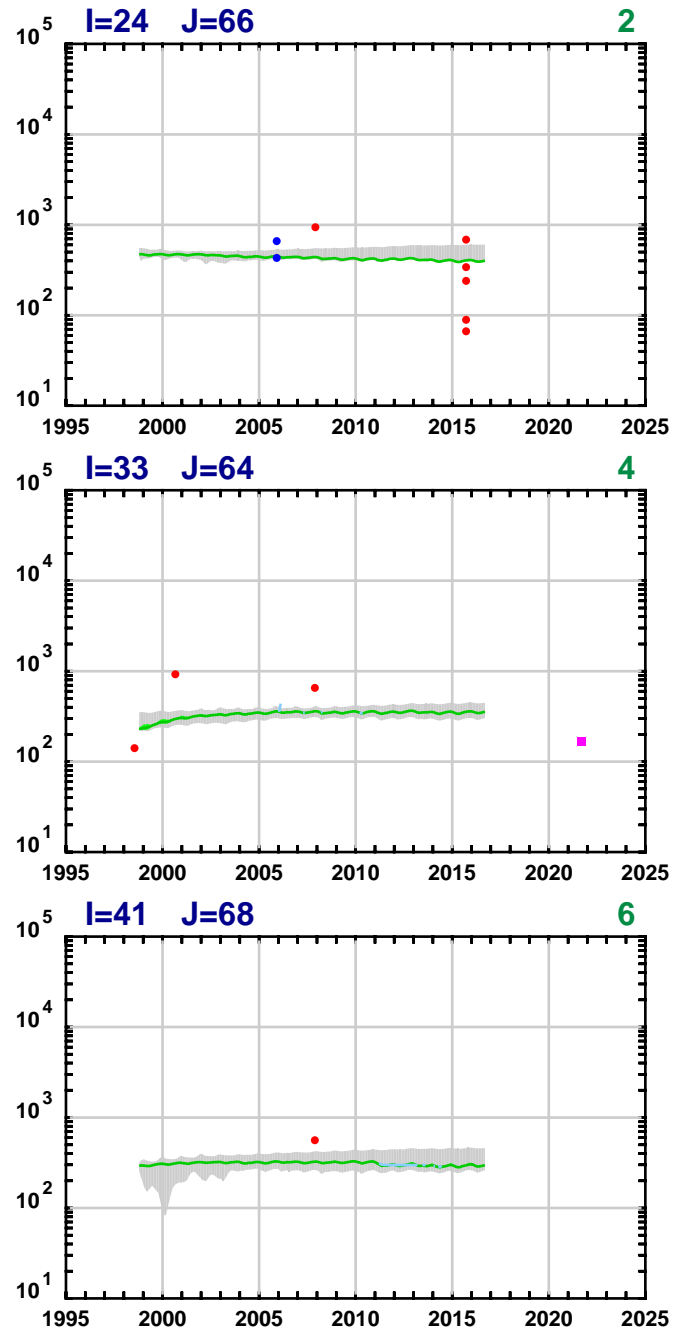
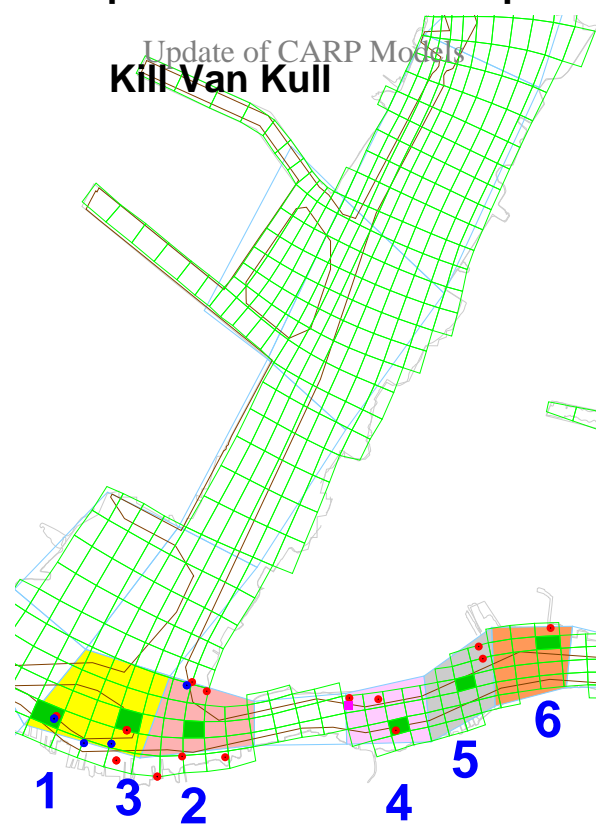
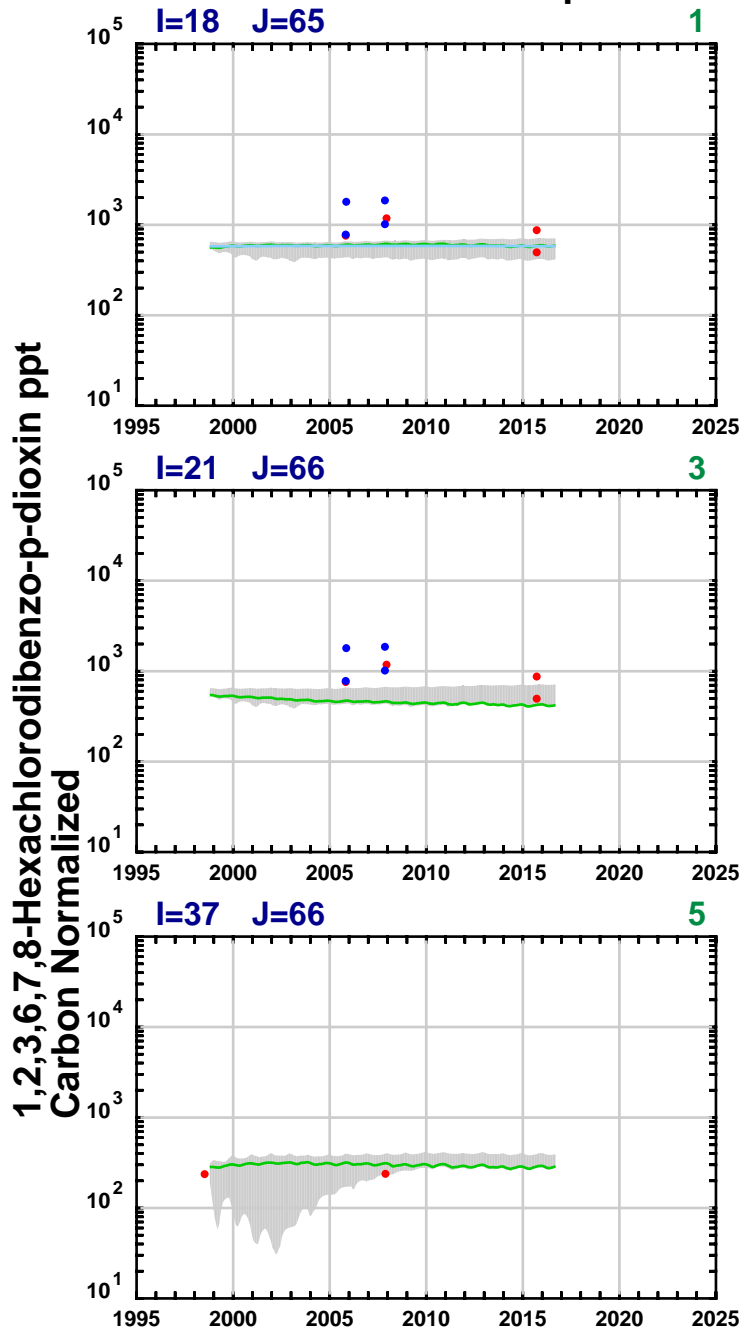


RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

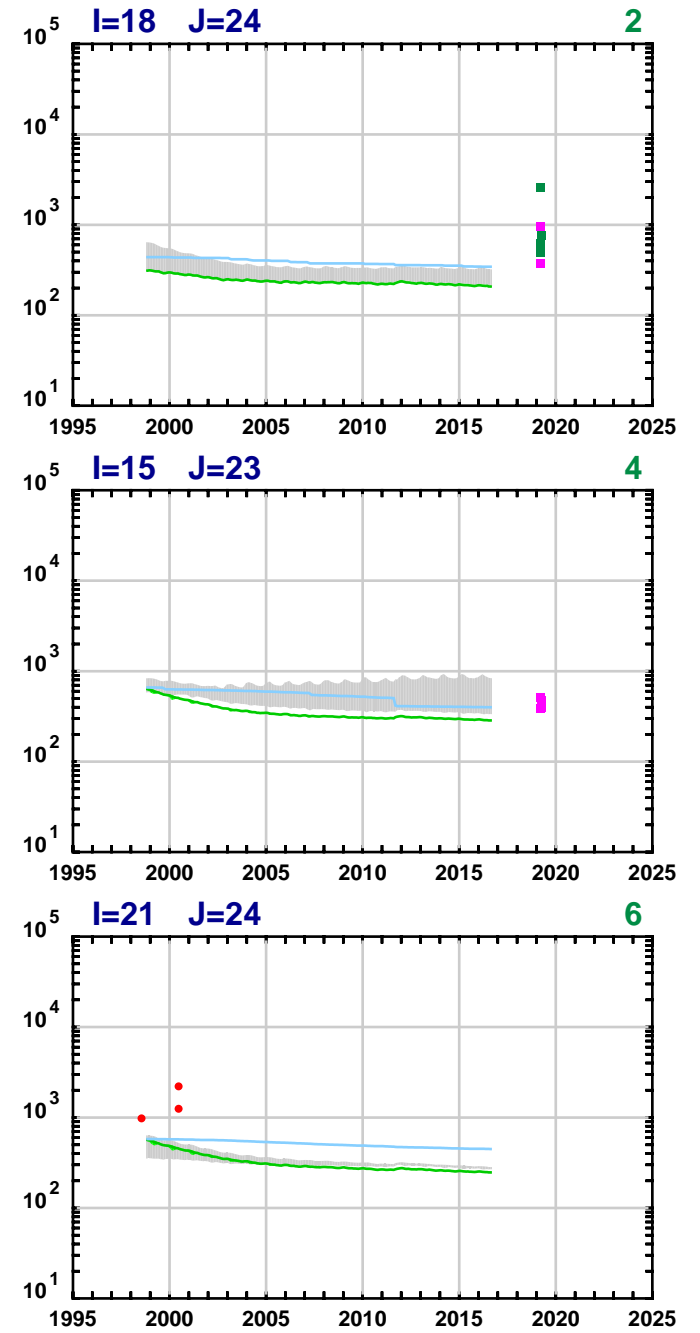
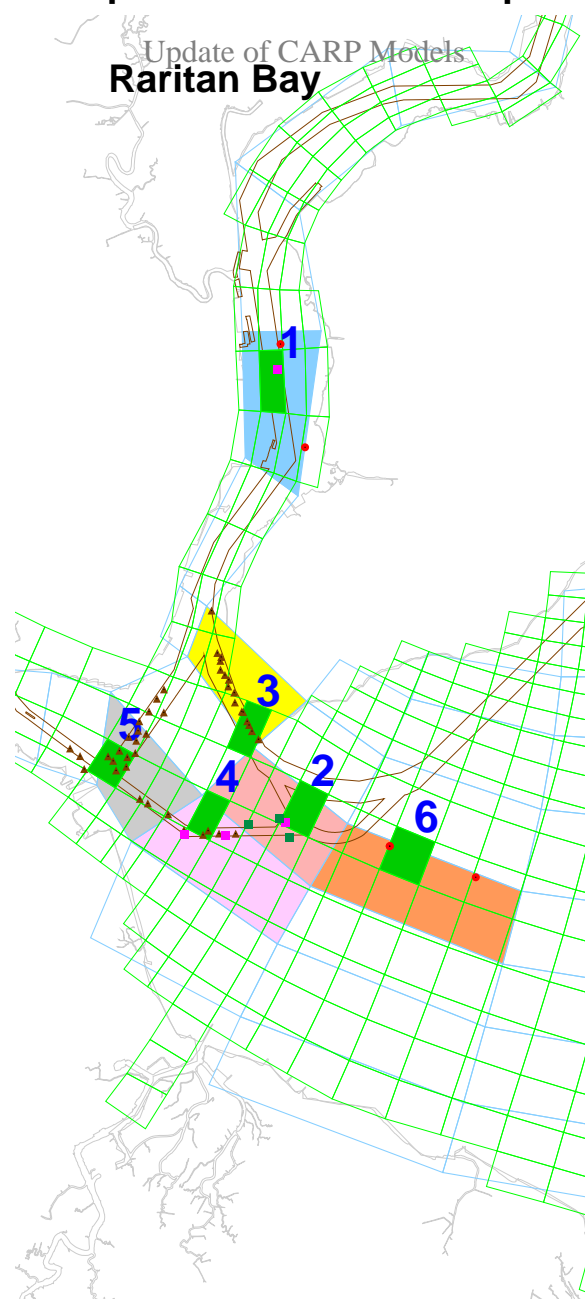
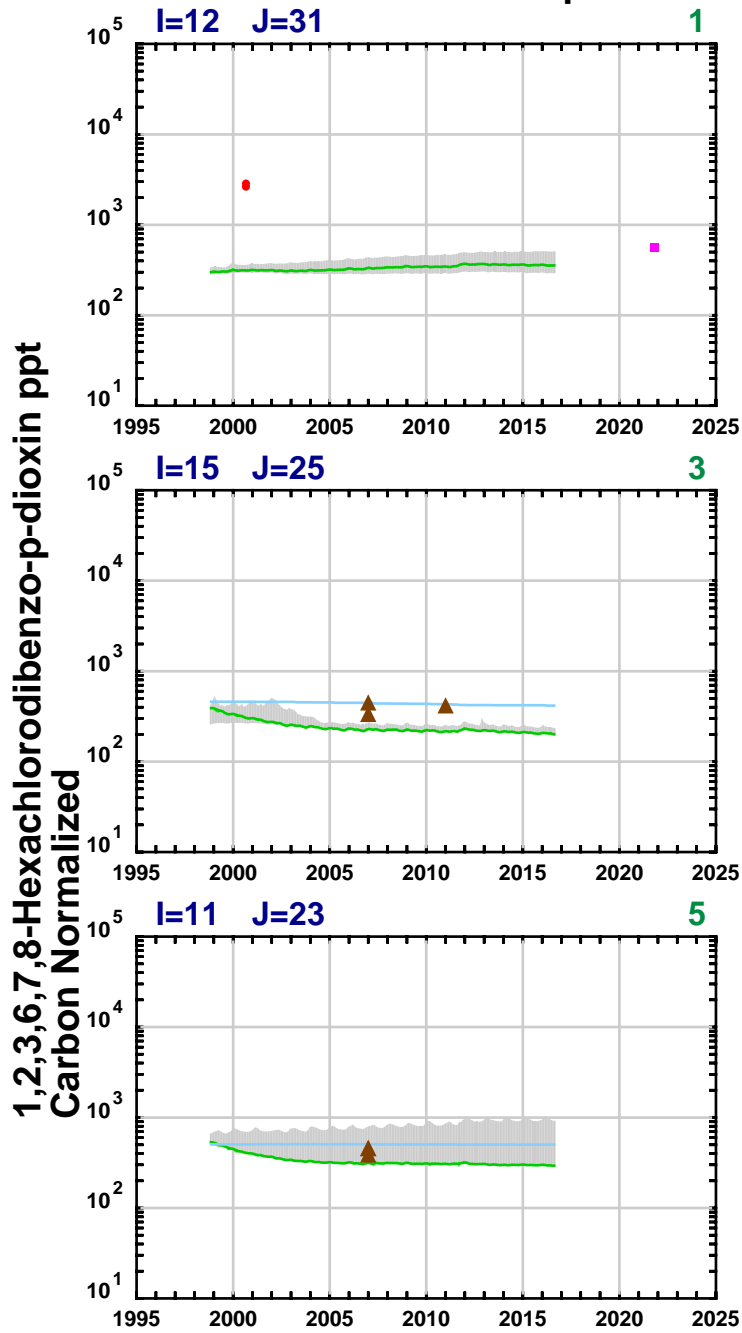


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

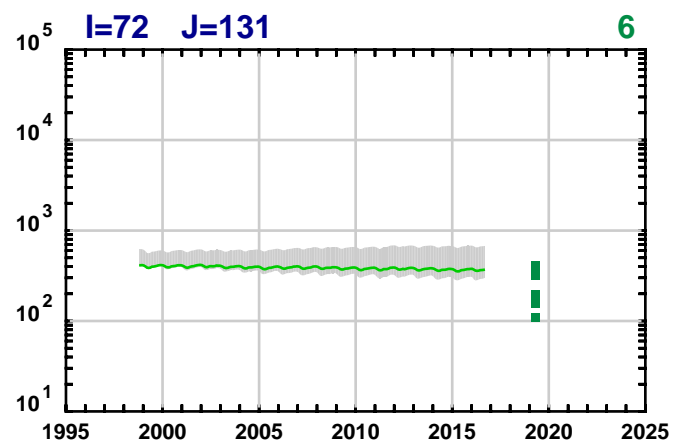
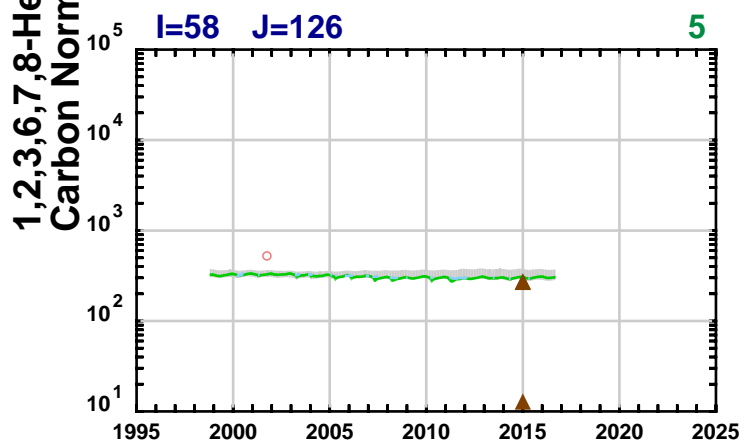
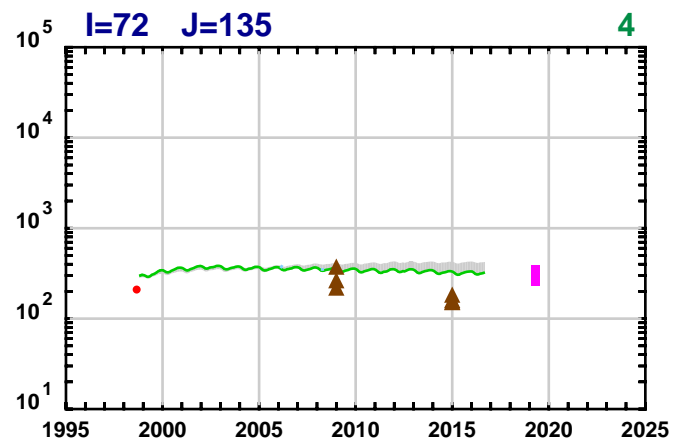
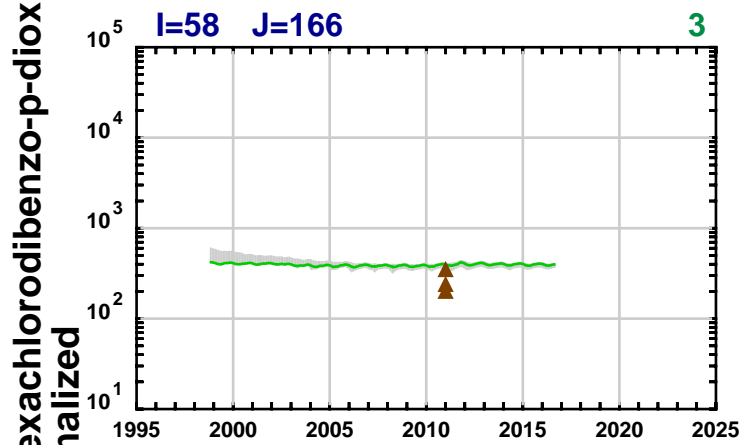
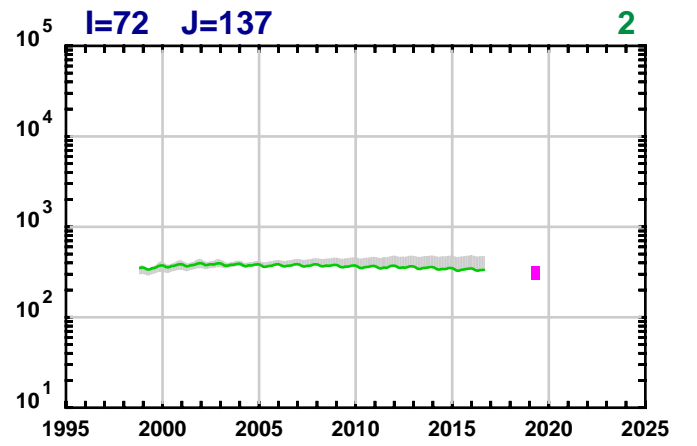
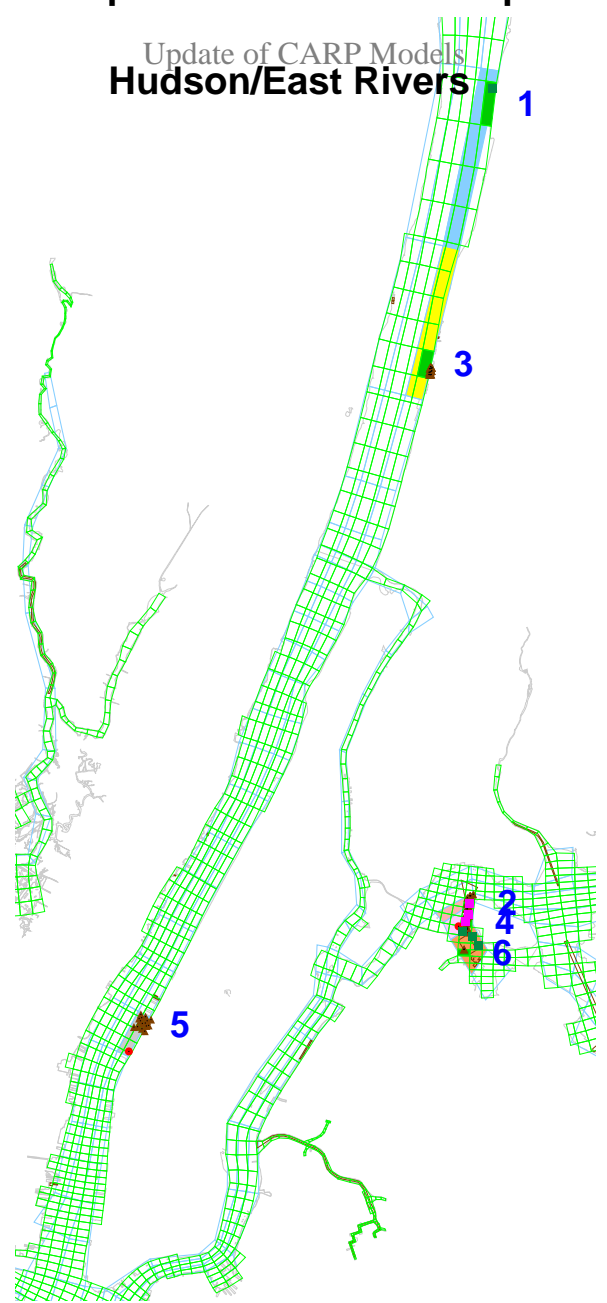
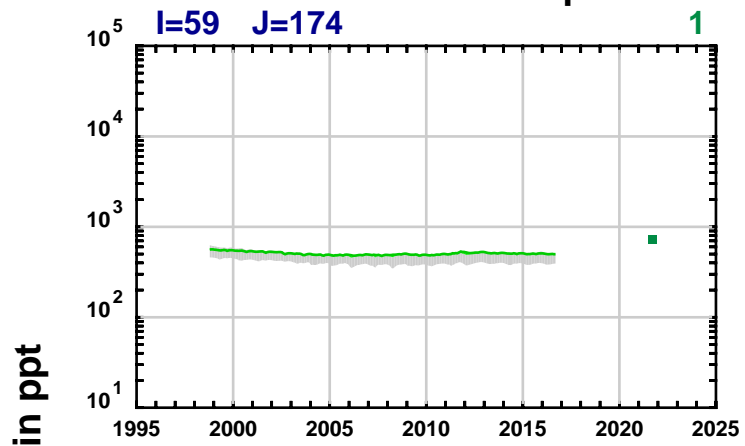


RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

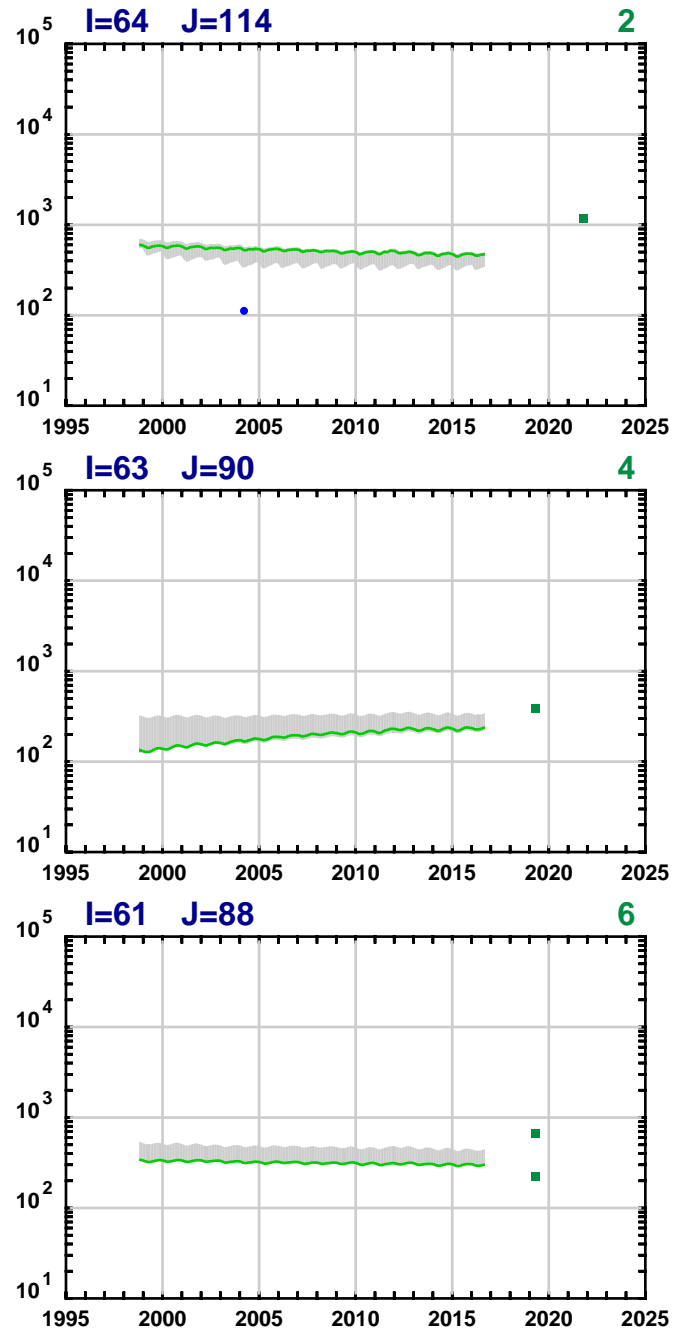
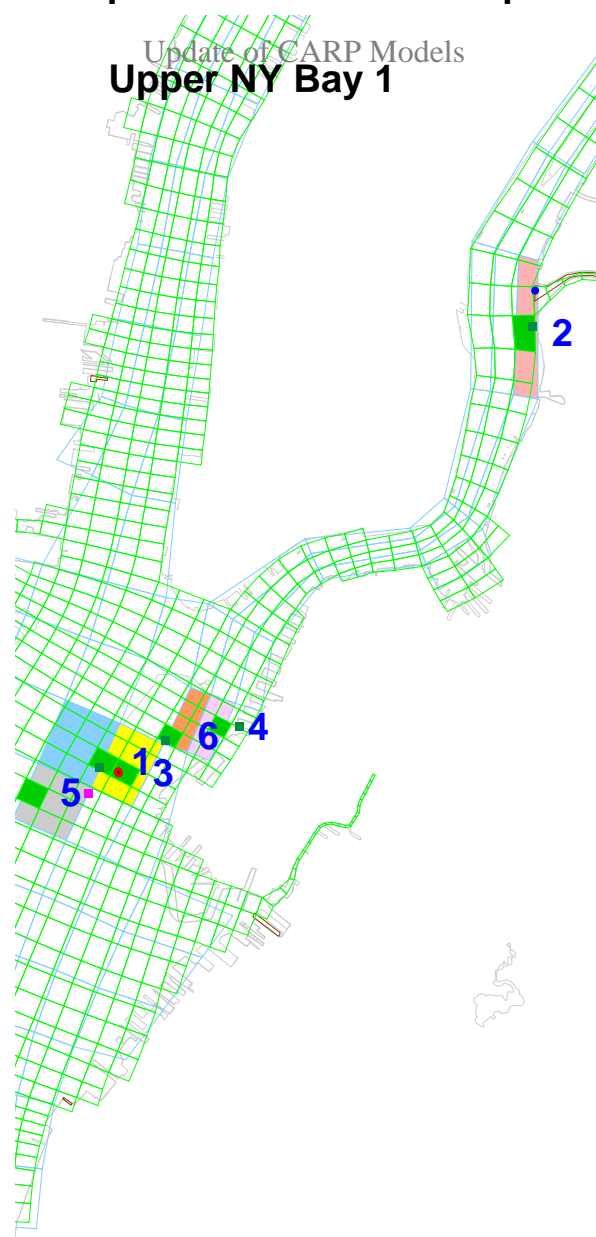
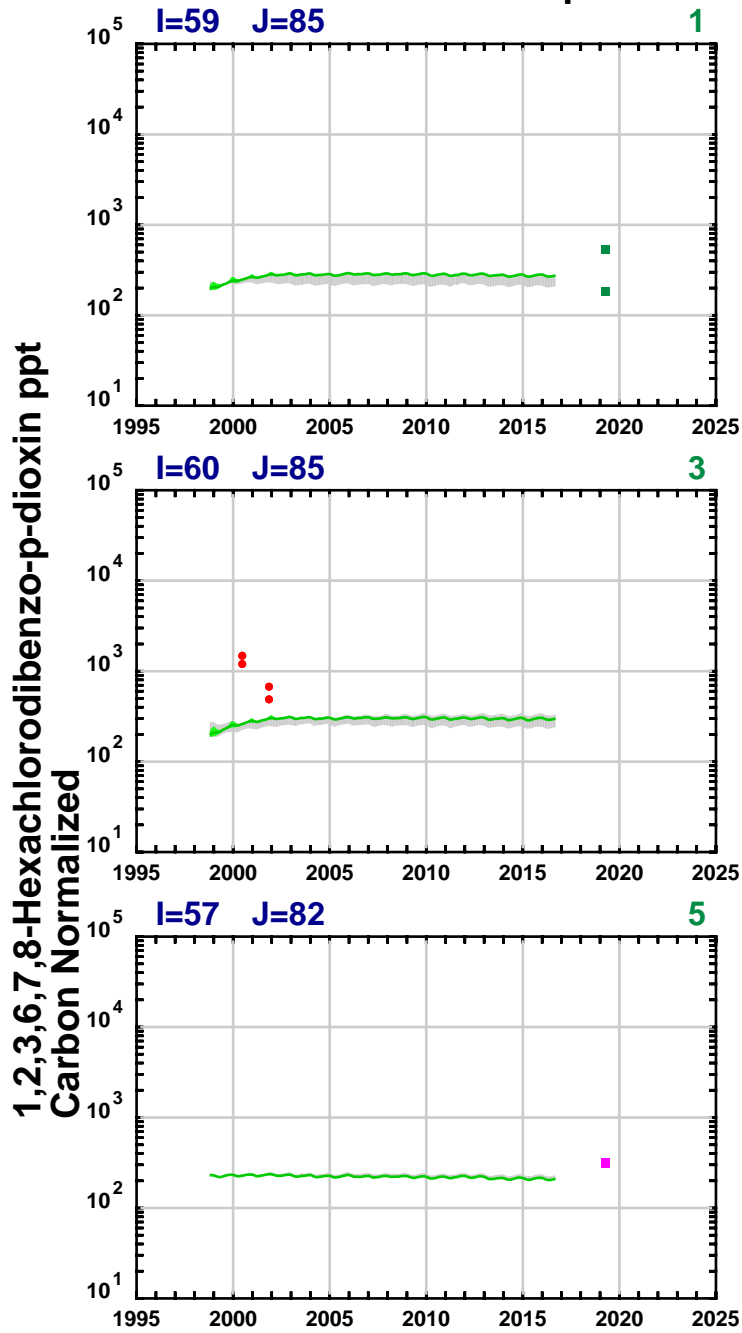


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

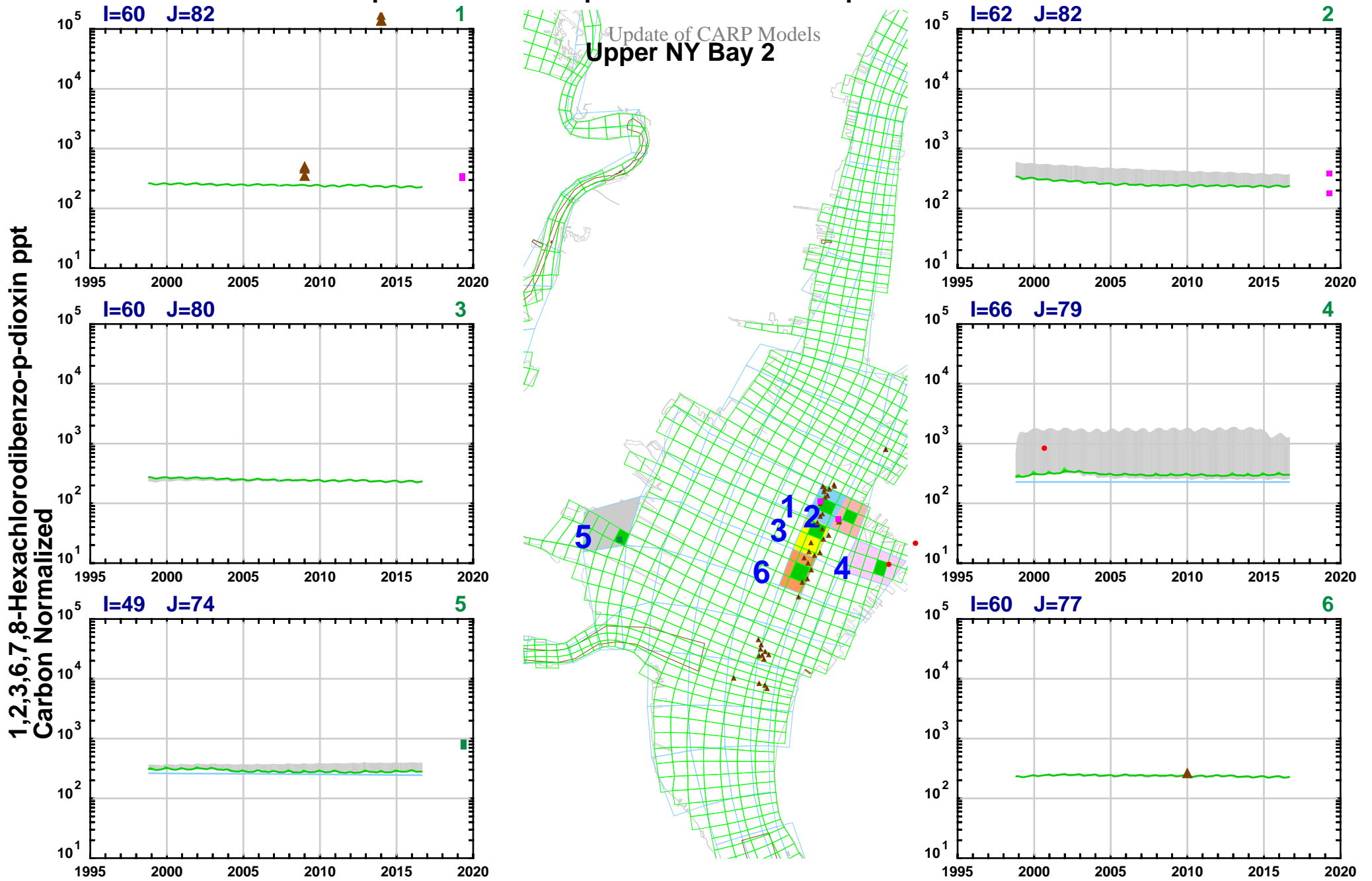


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



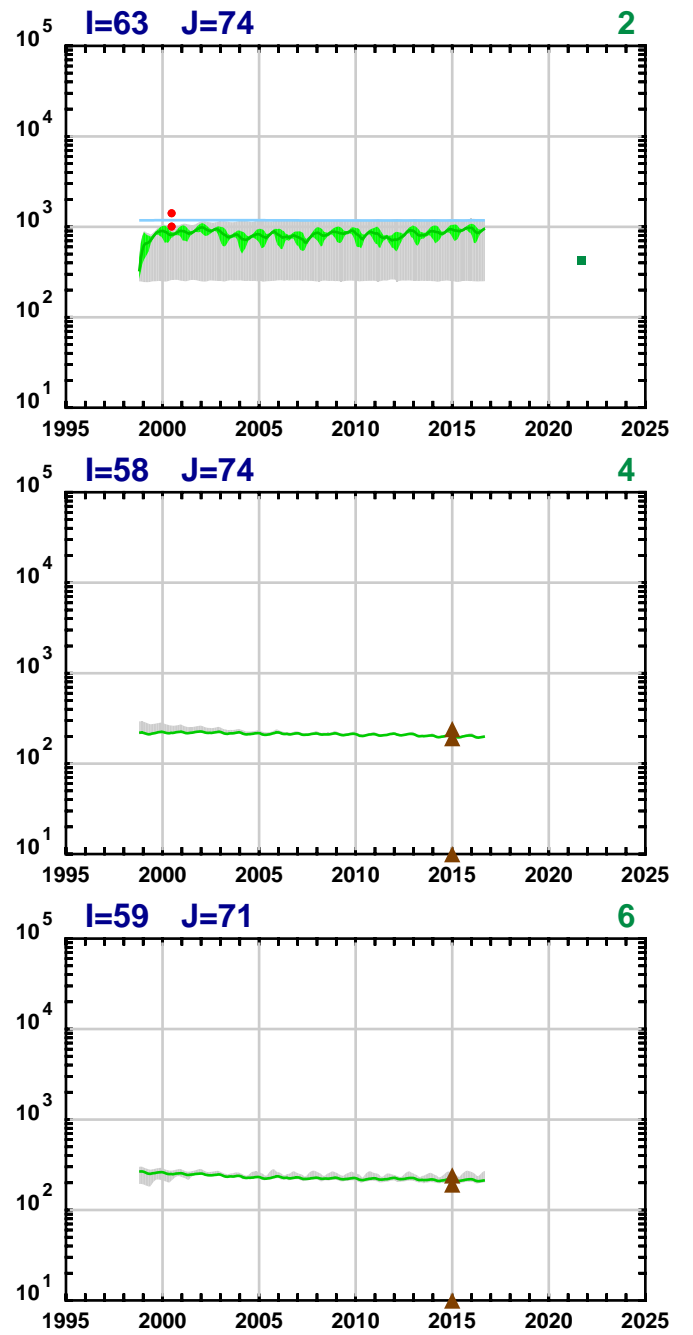
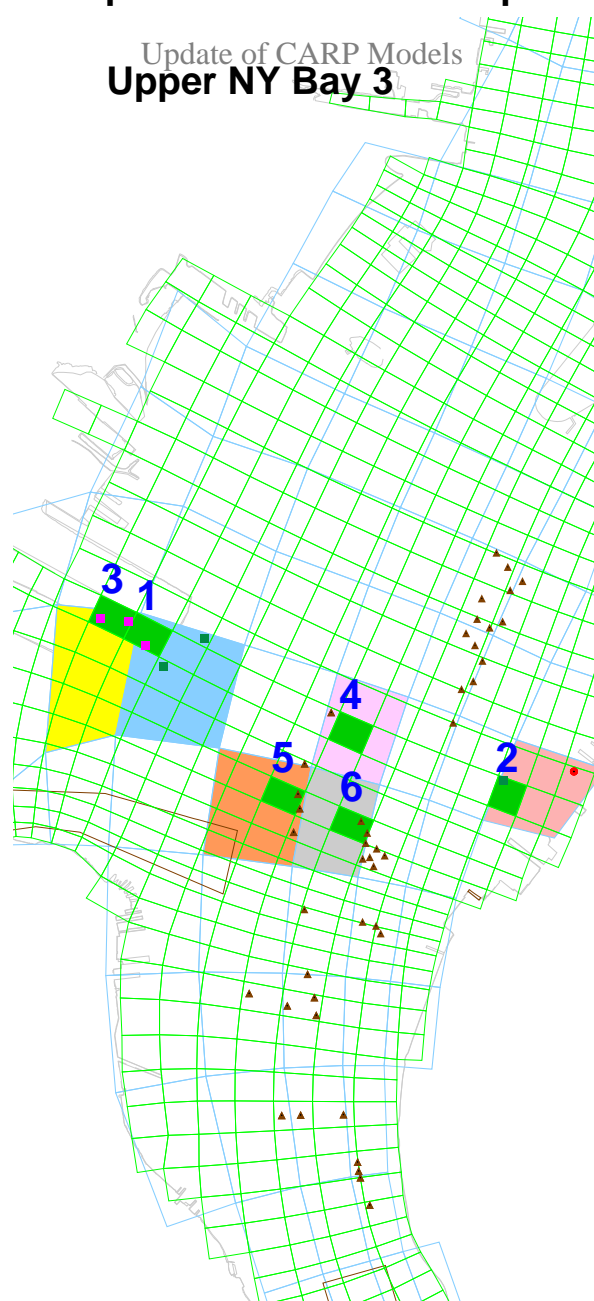
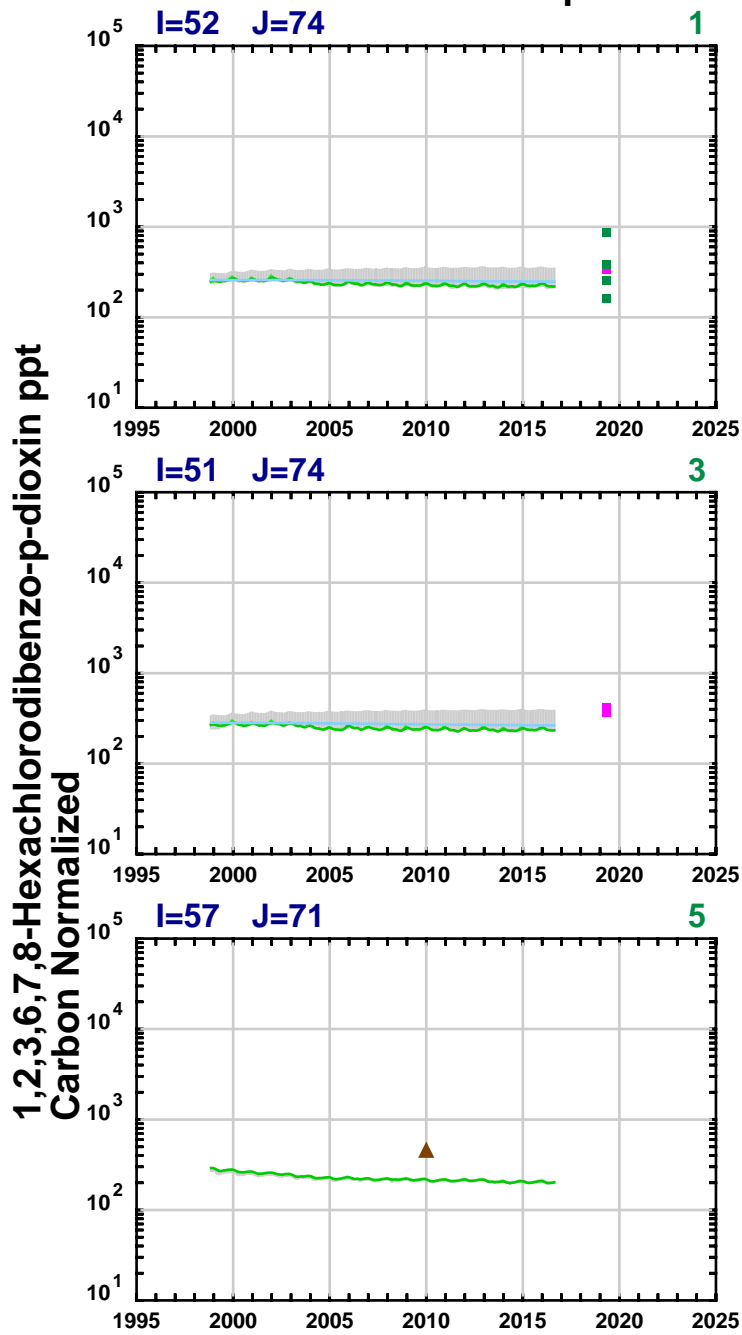
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data    ● Off-channel data    ▲ Dredge data**  
**■ CARP2 In-channel    ■ CARP2 Off-channel**



# Top 15 cm data comparison with model top 10 cm sediment



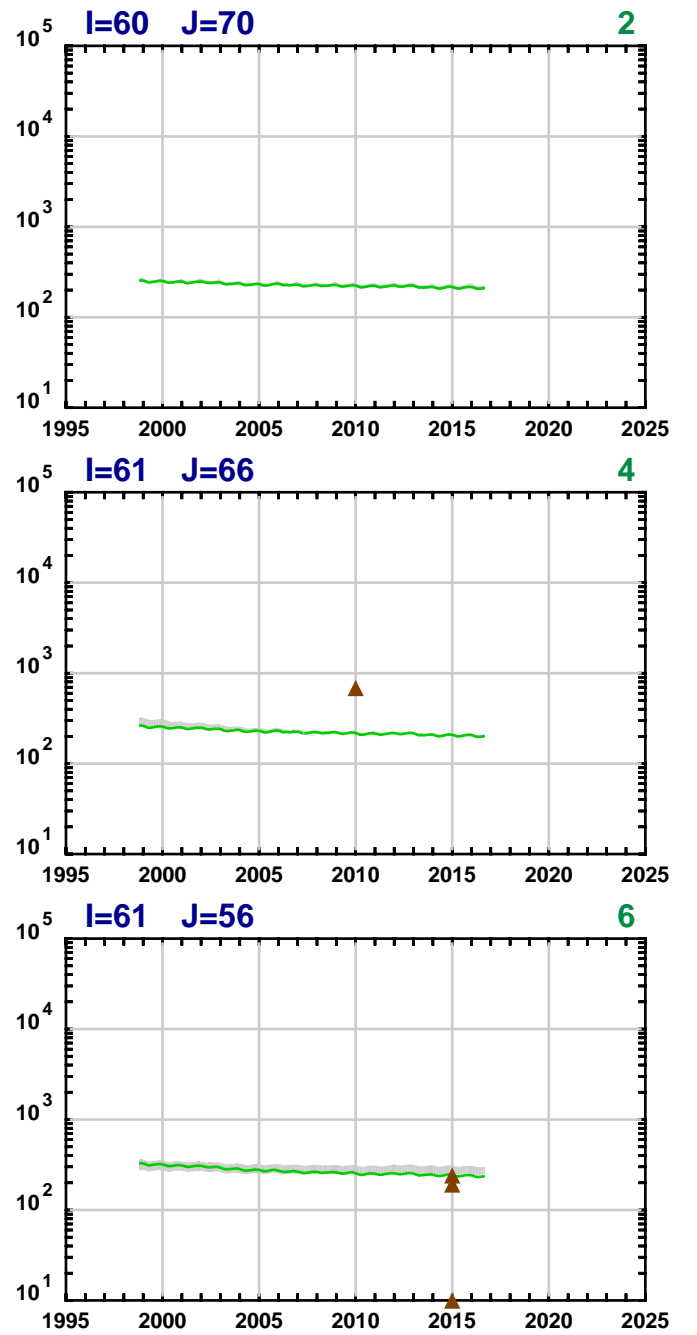
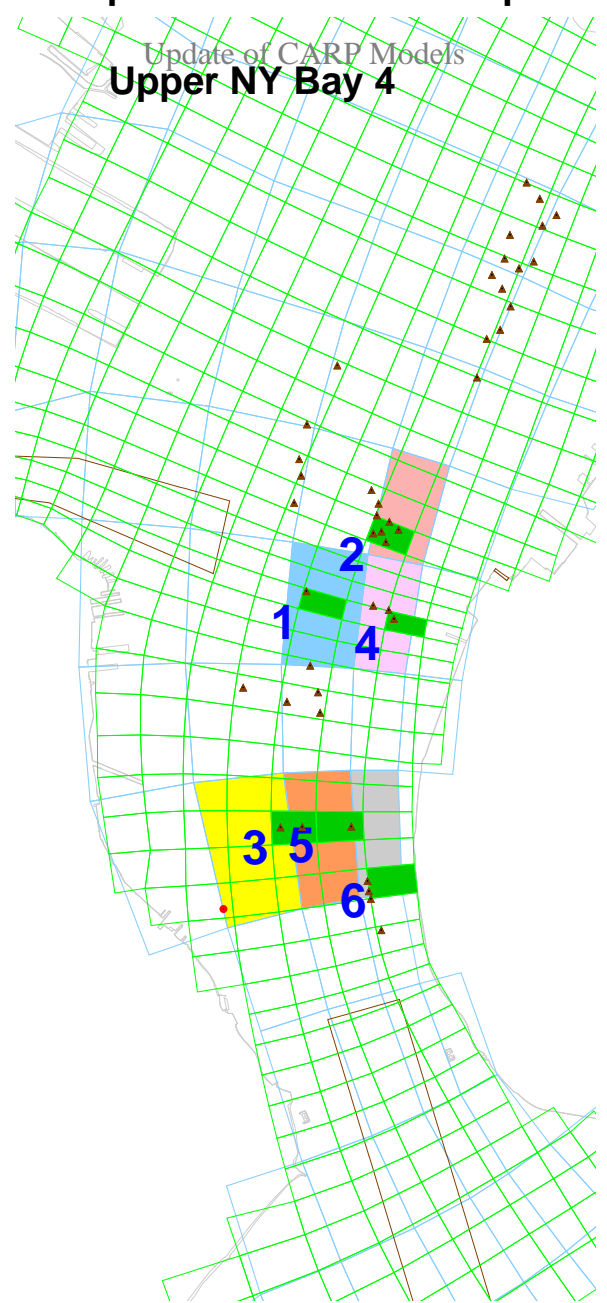
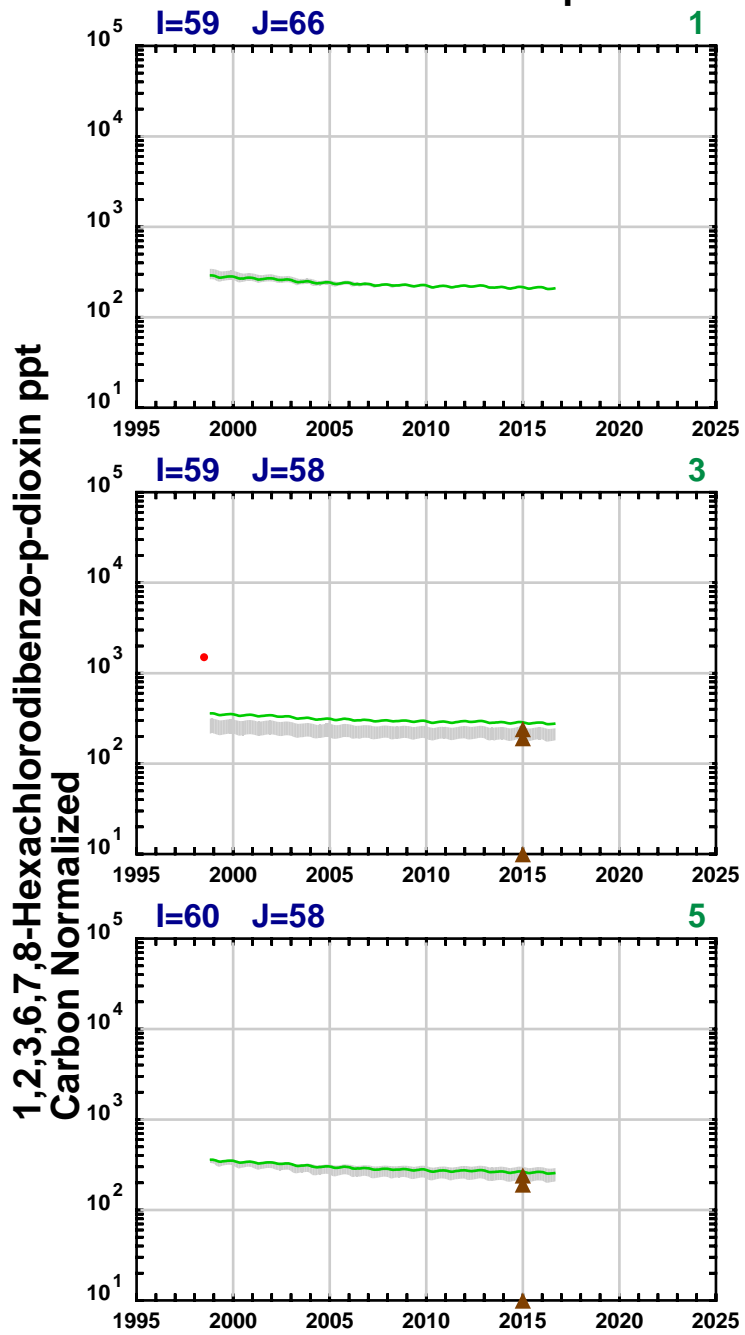
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

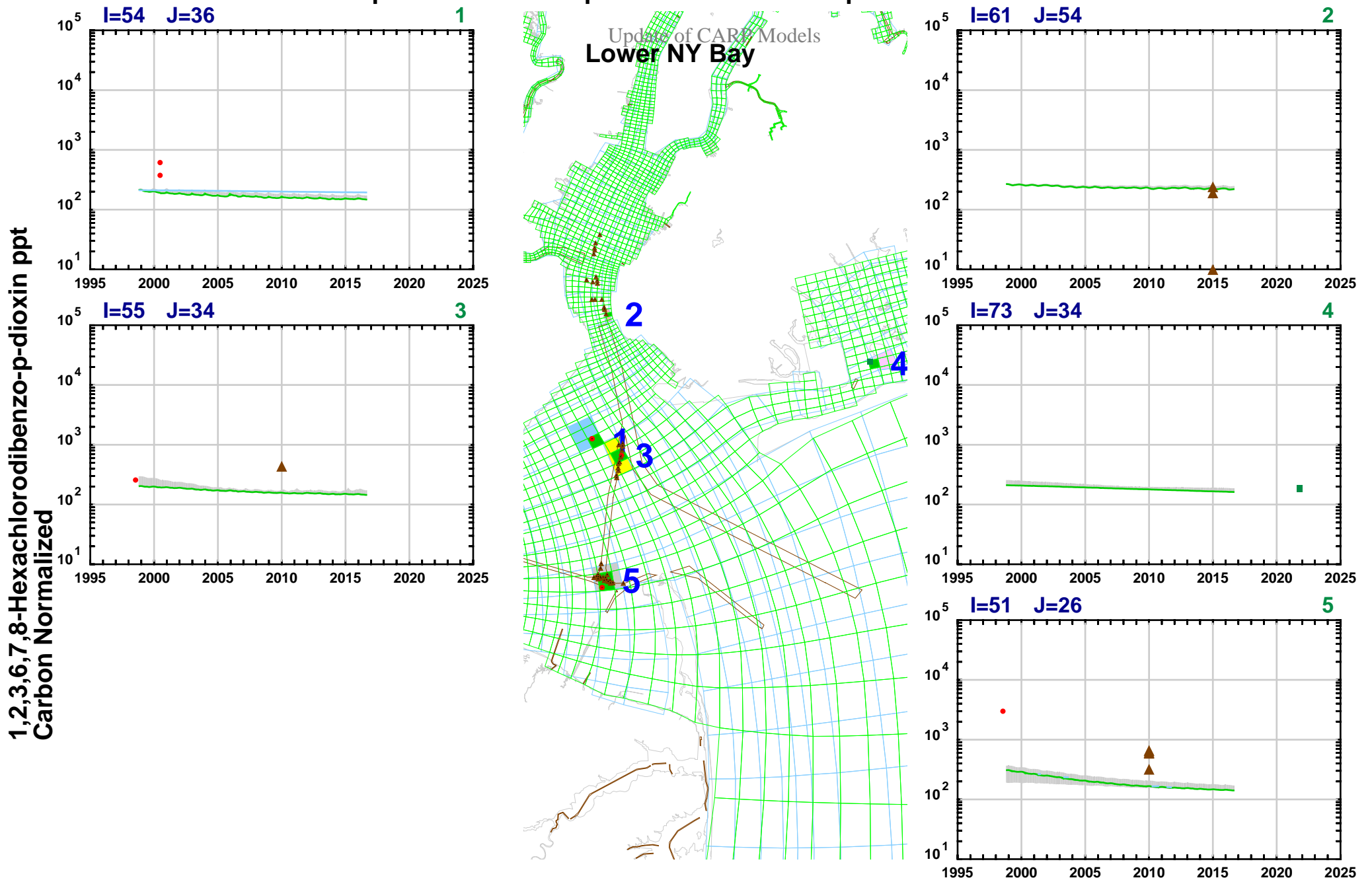


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



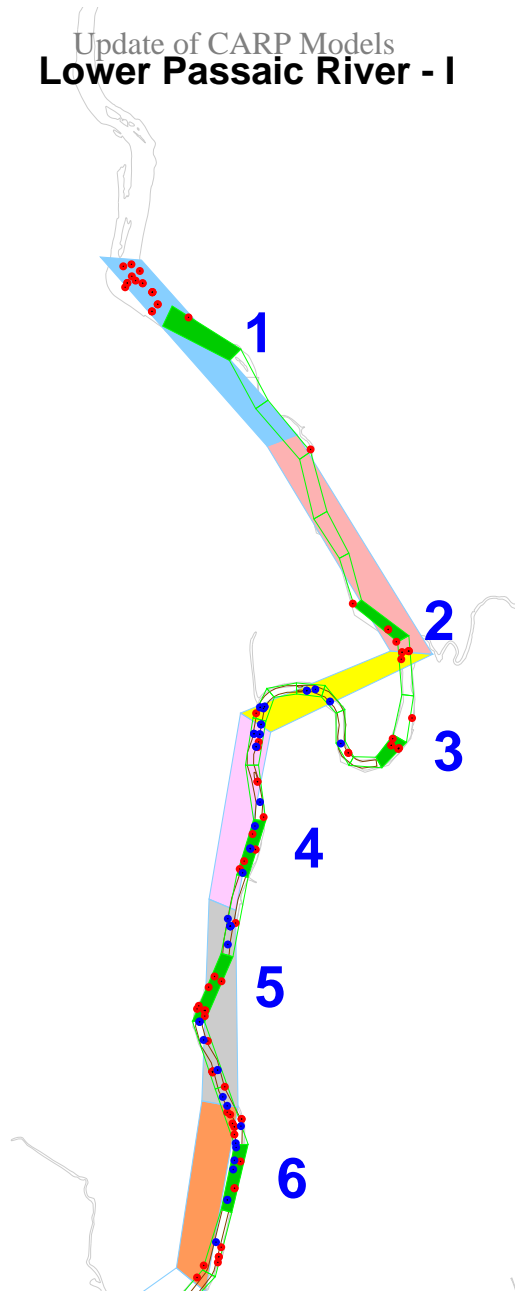
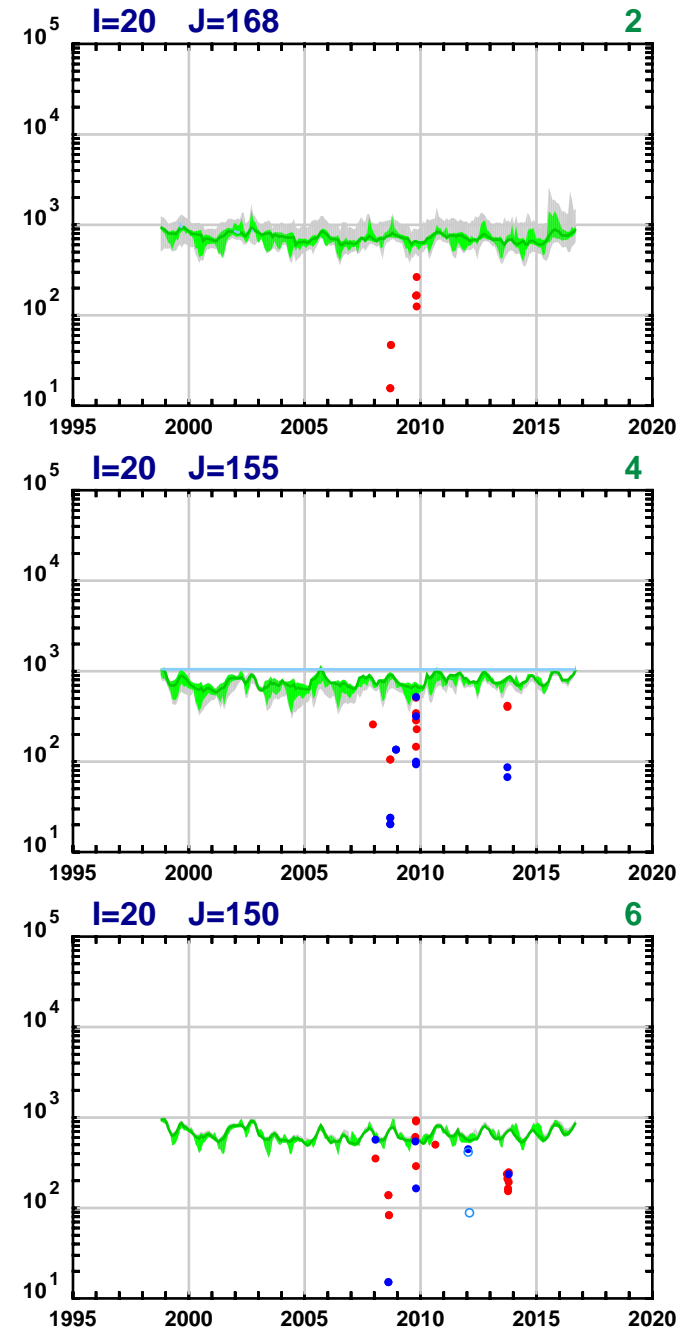
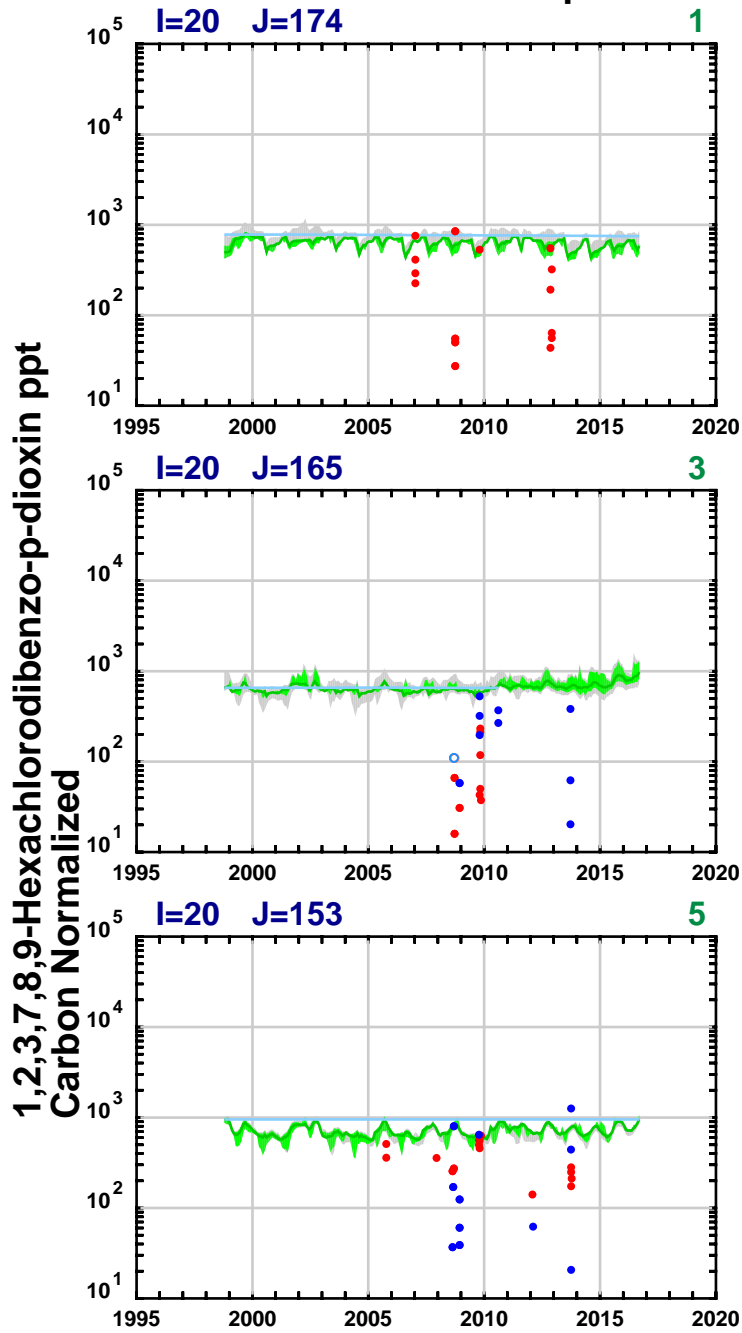
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data ● Off-channel data ▲ Dredge data**  
**■ CARP2 In-channel ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Lower Passaic River - I

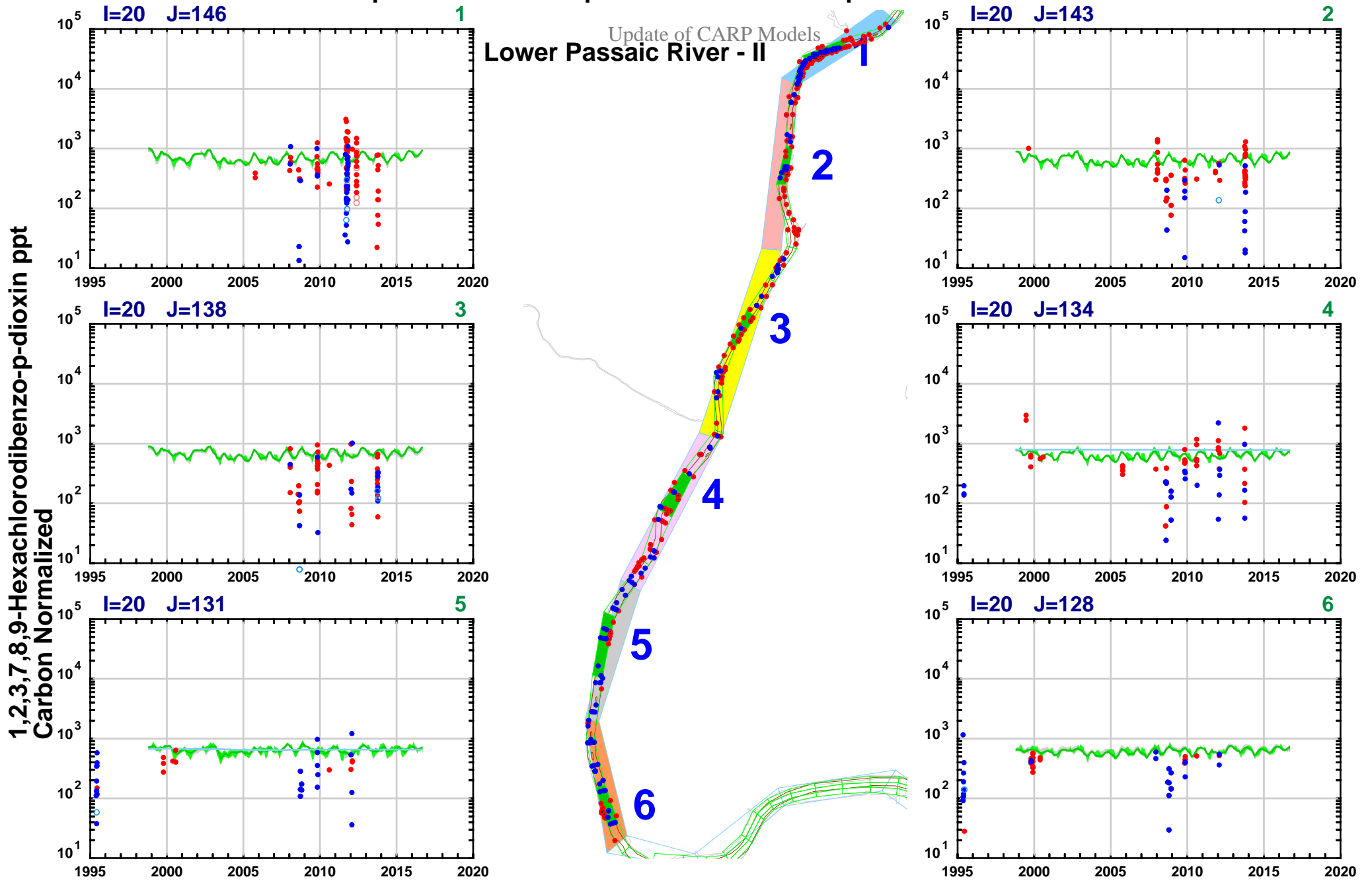


RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

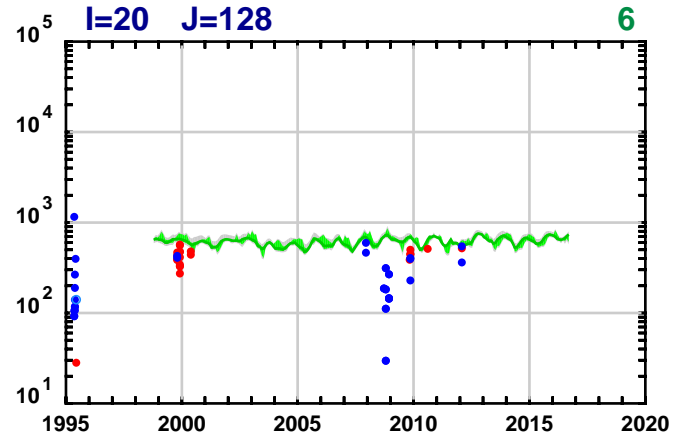
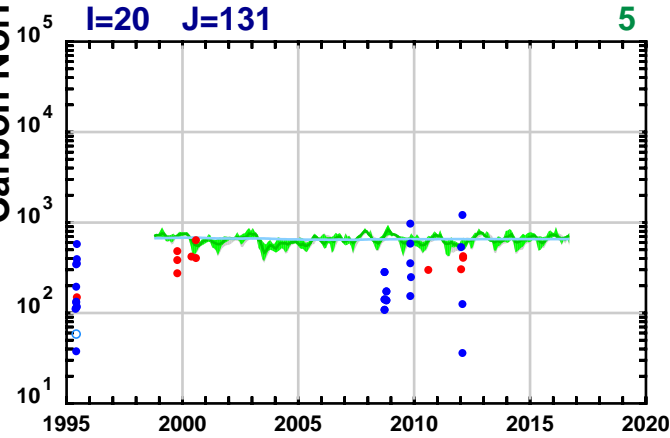
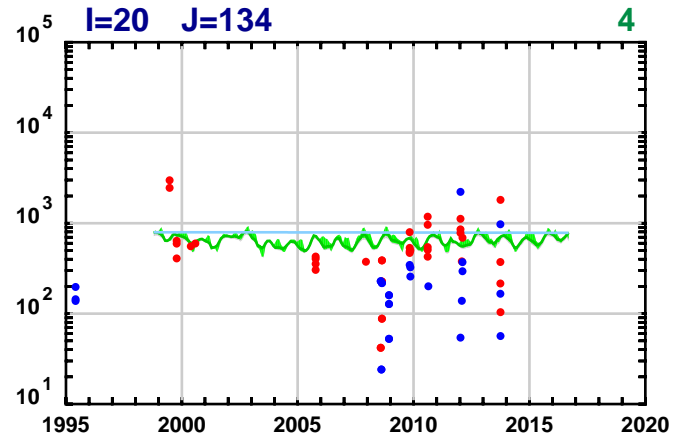
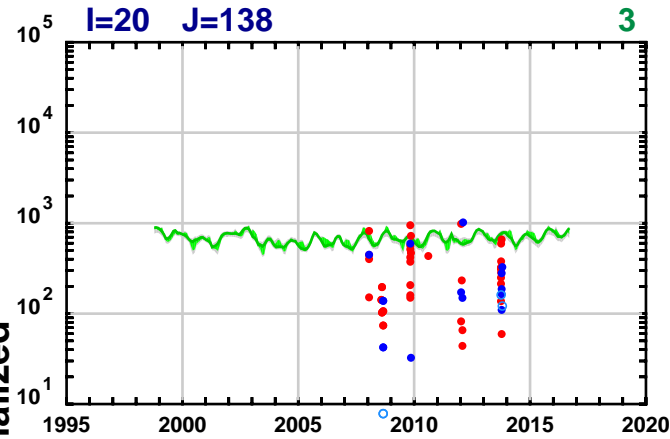
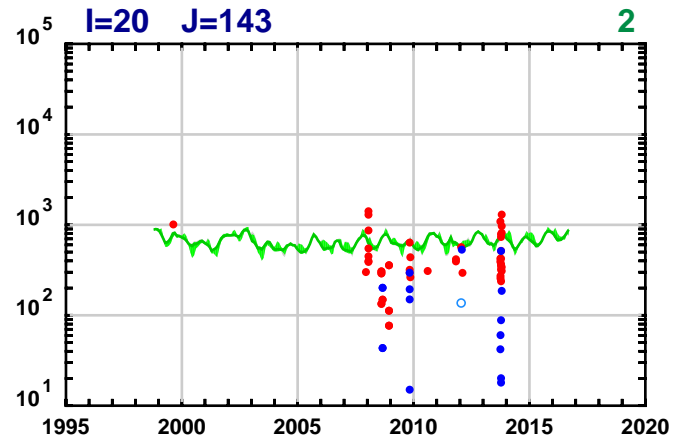
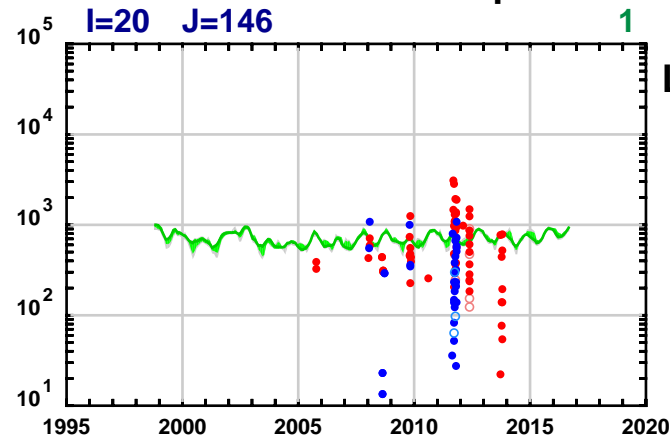
● In-channel data   ● Off-channel data   ▲ Dredge data  
■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



Update of CARP Models  
Lower Passaic River - II

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin ppt  
Carbon Normalized

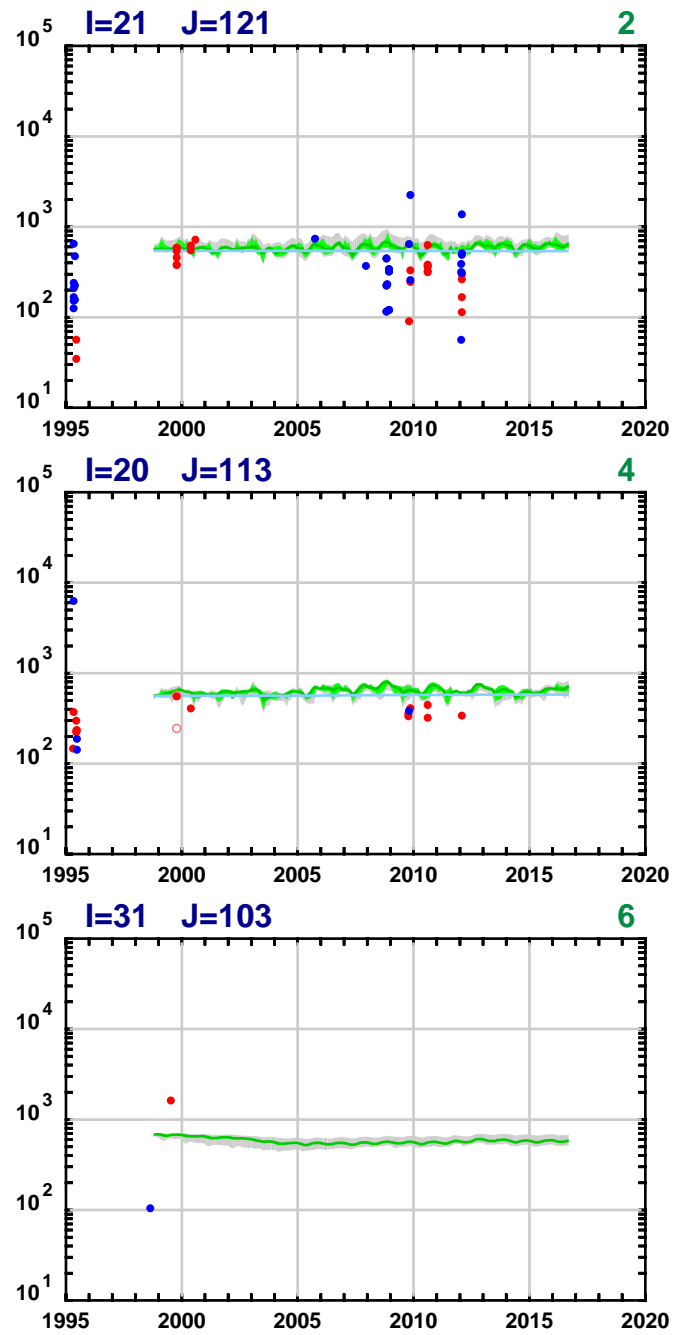
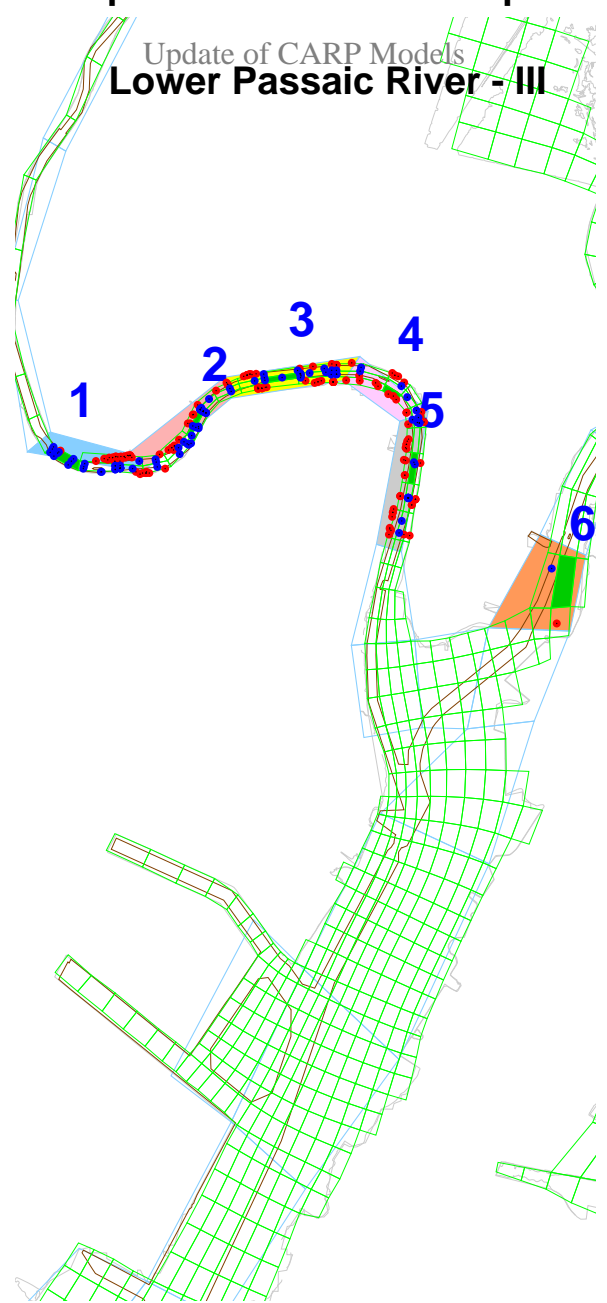
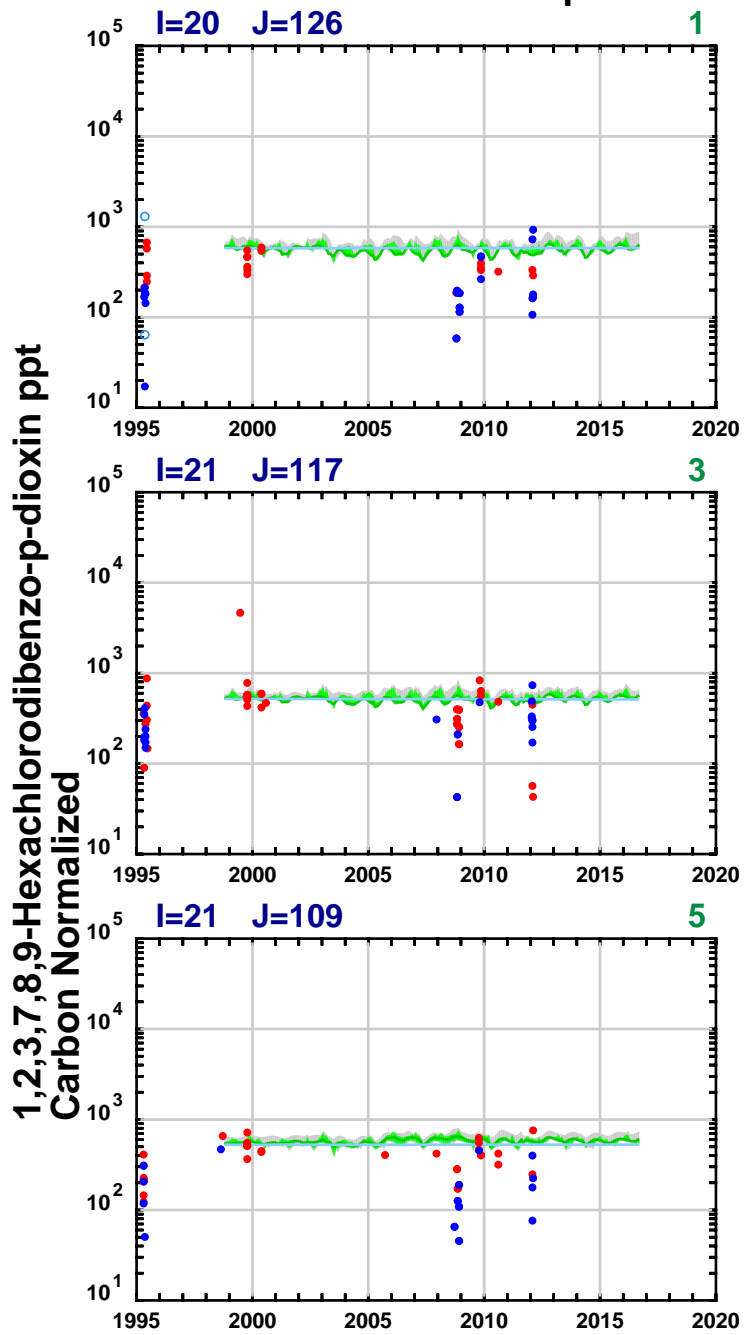


**RUN18\_S3**

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

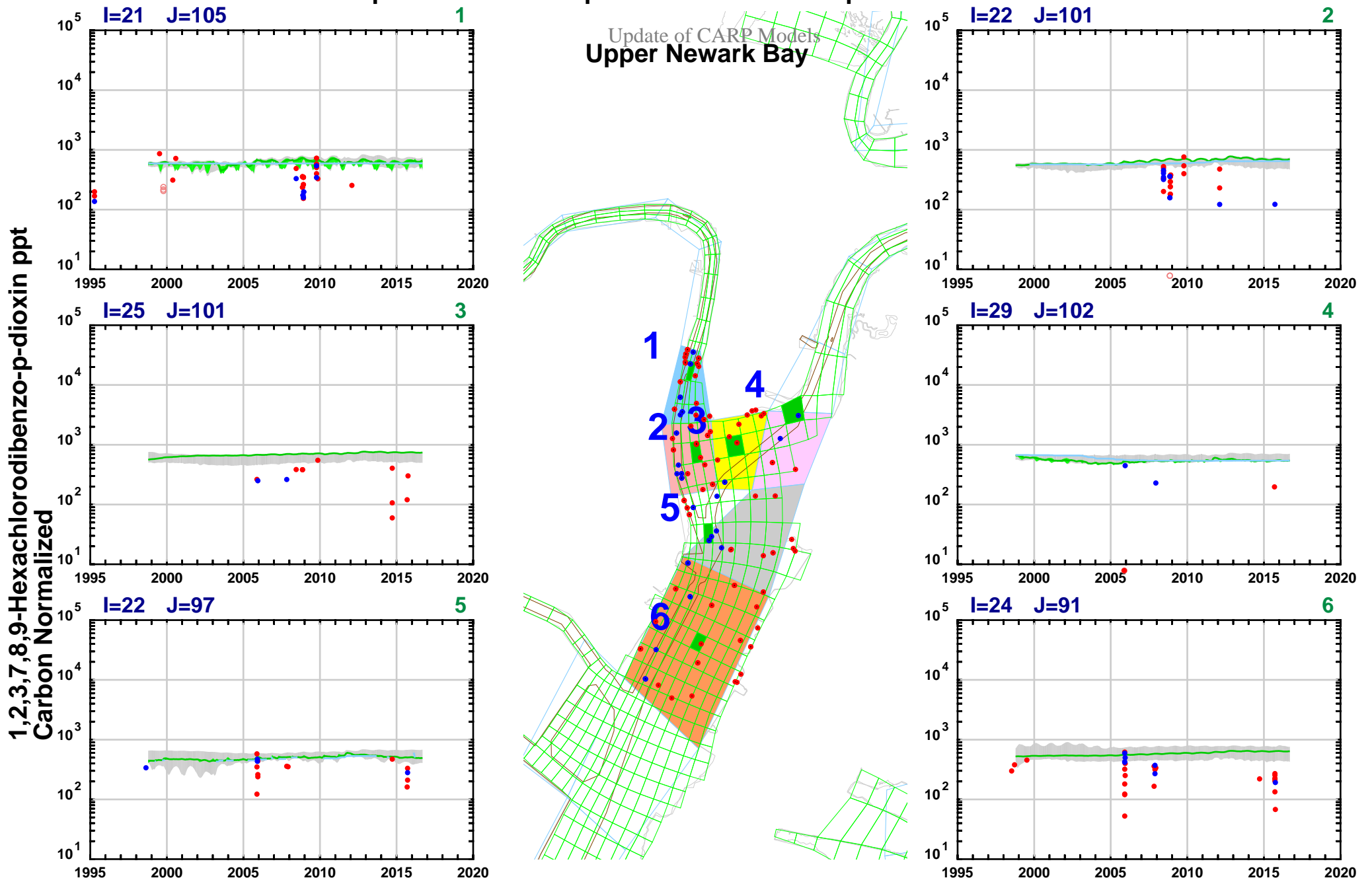


RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



Update of CARP Models  
Upper Newark Bay

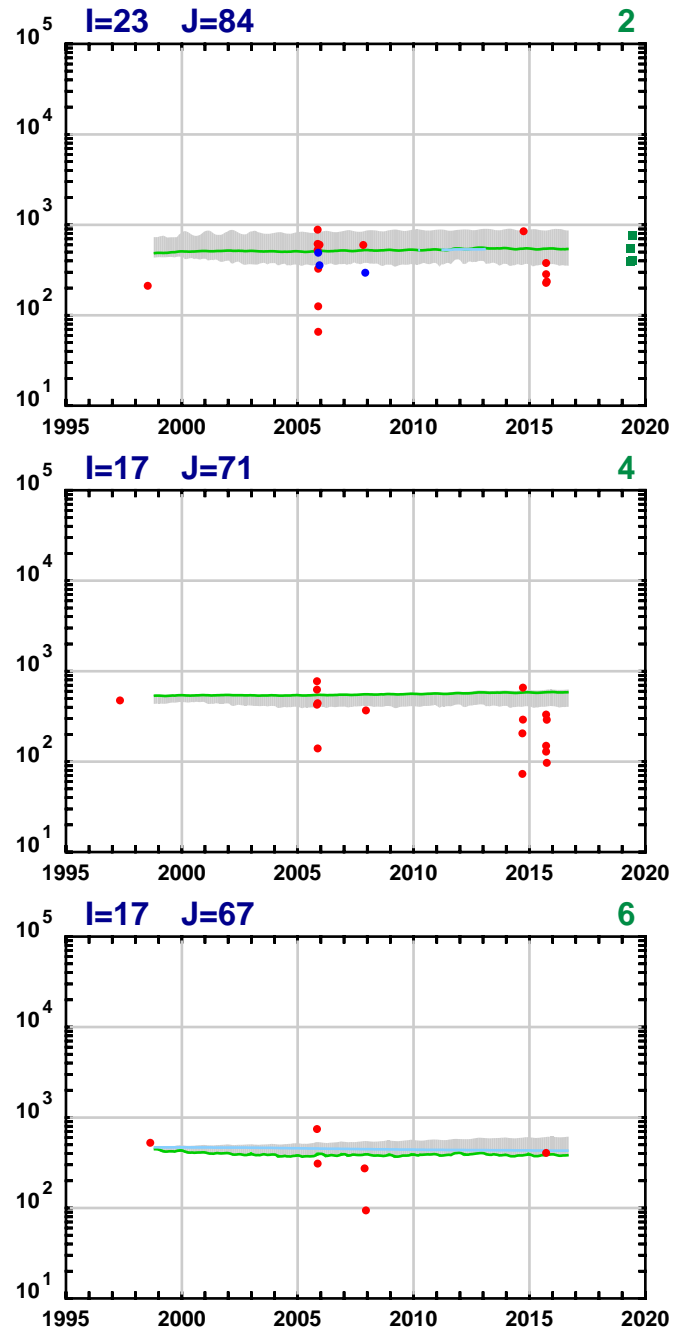
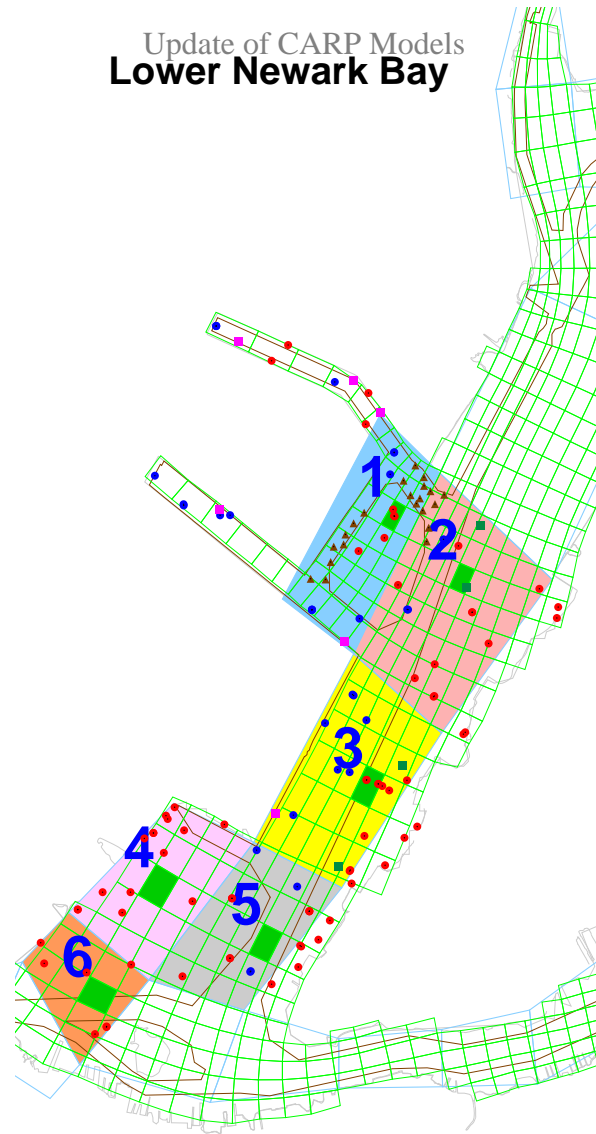
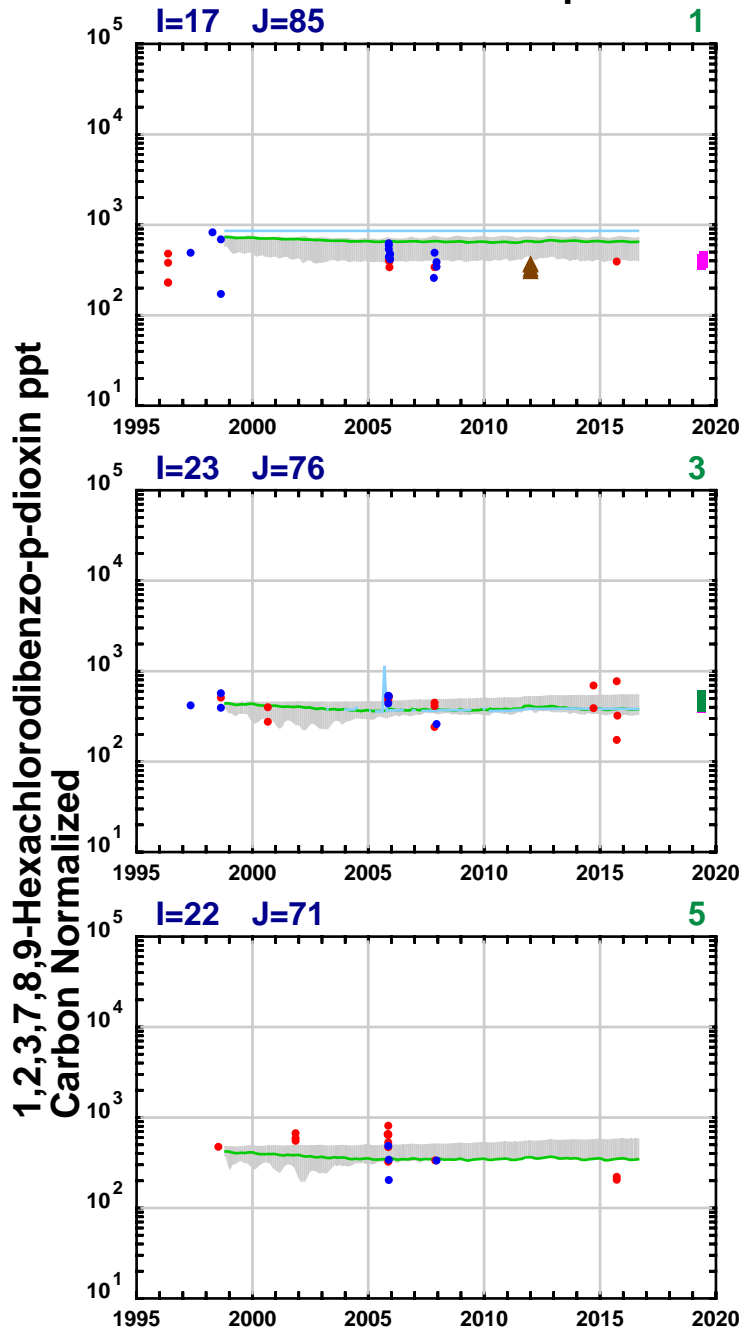
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Lower Newark Bay



RUN18\_S3

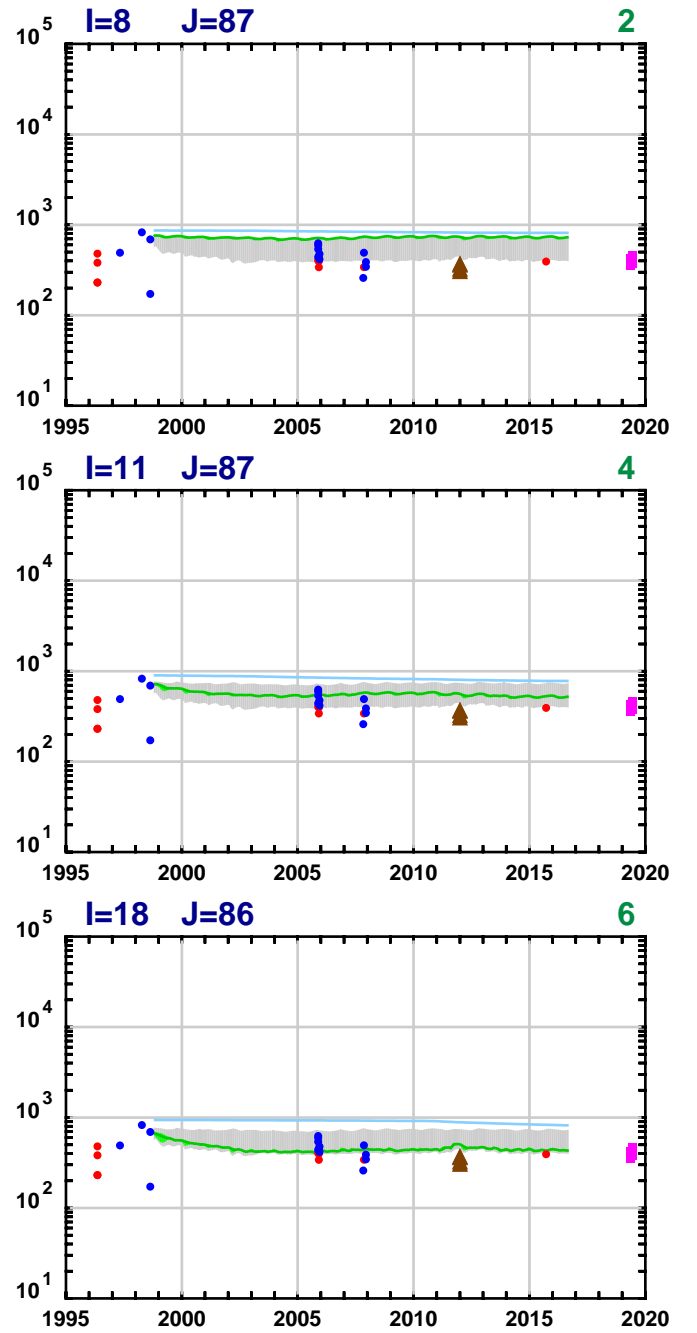
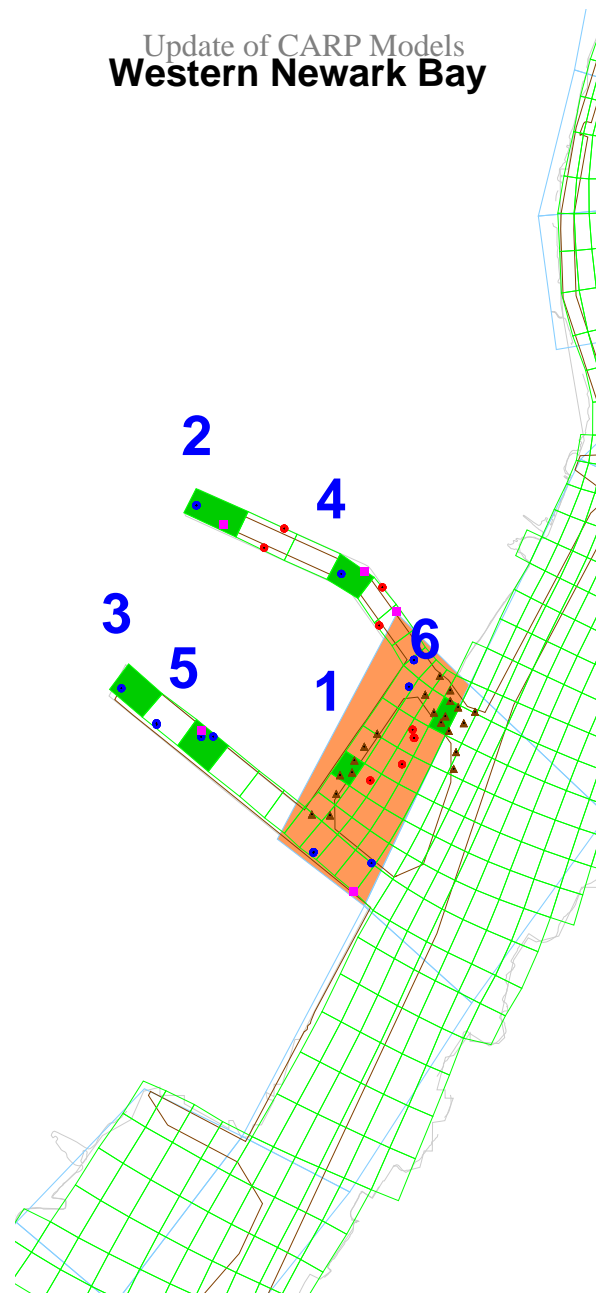
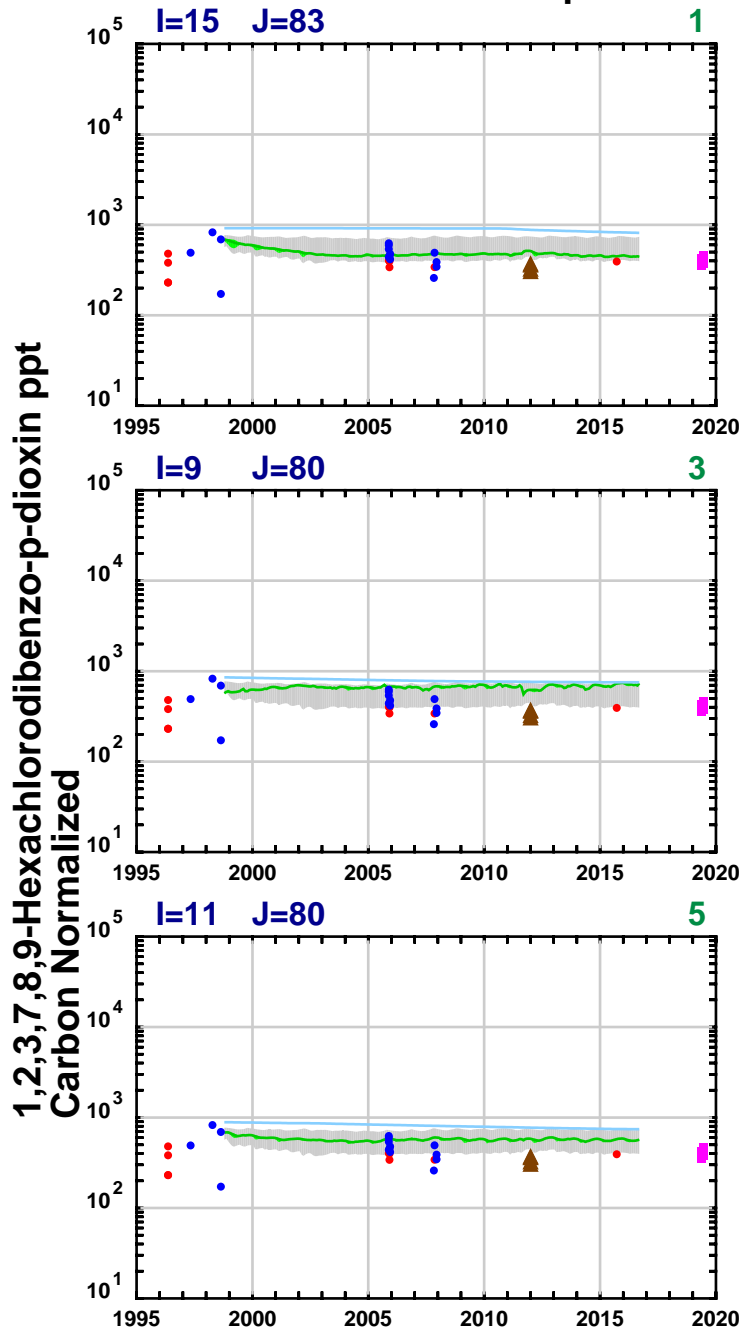
Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay



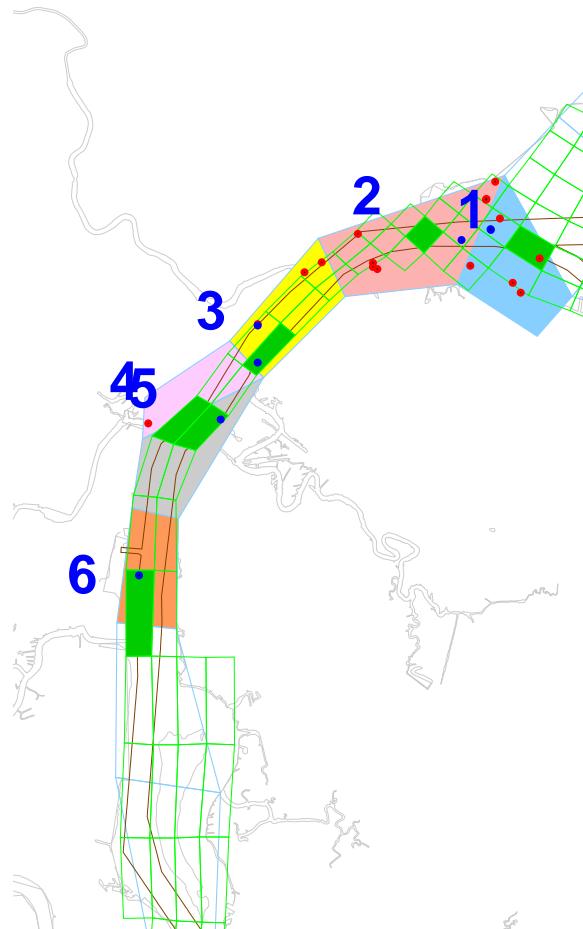
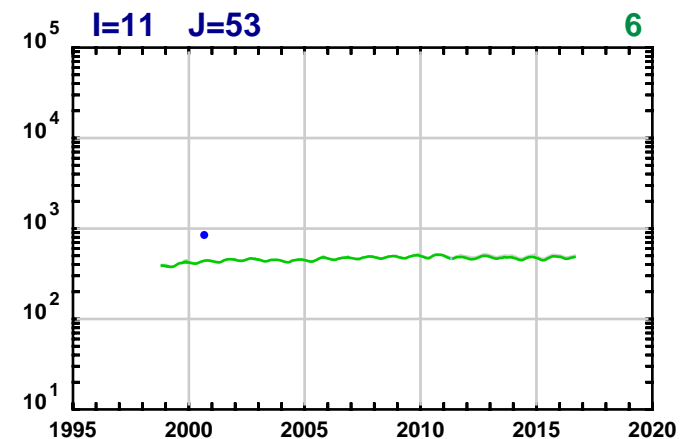
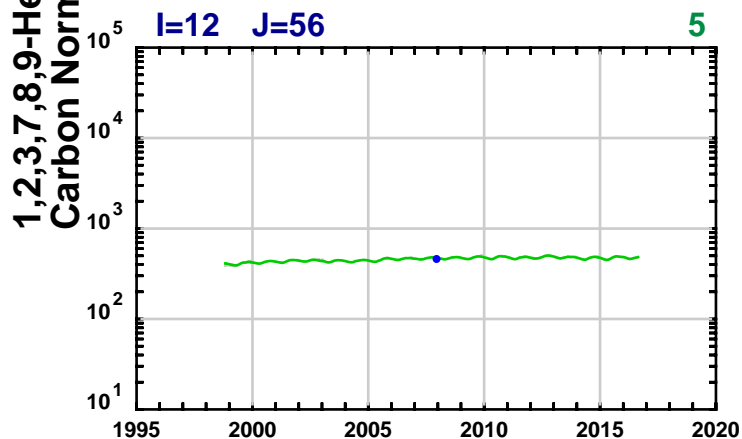
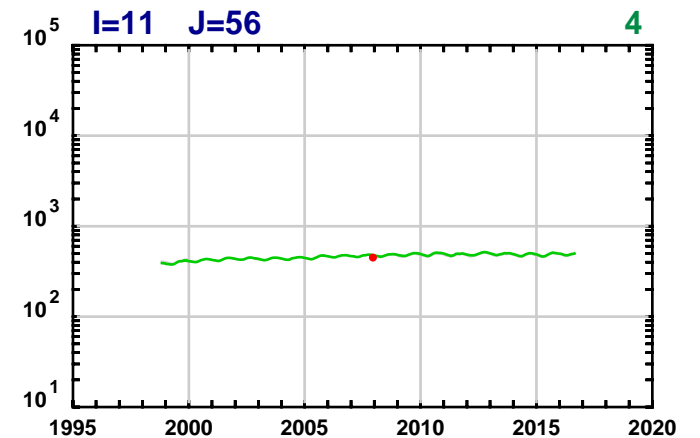
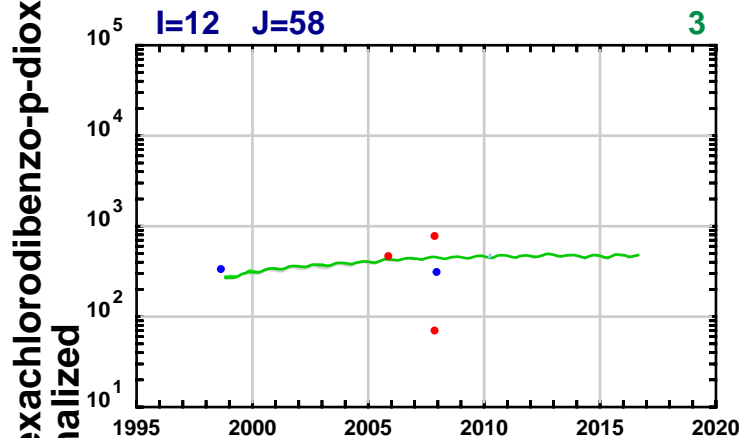
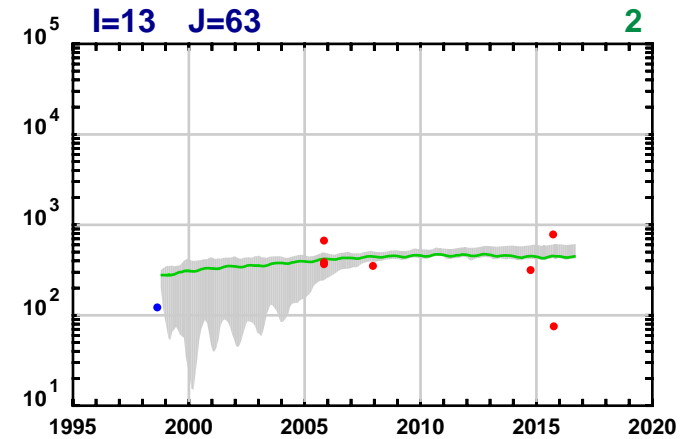
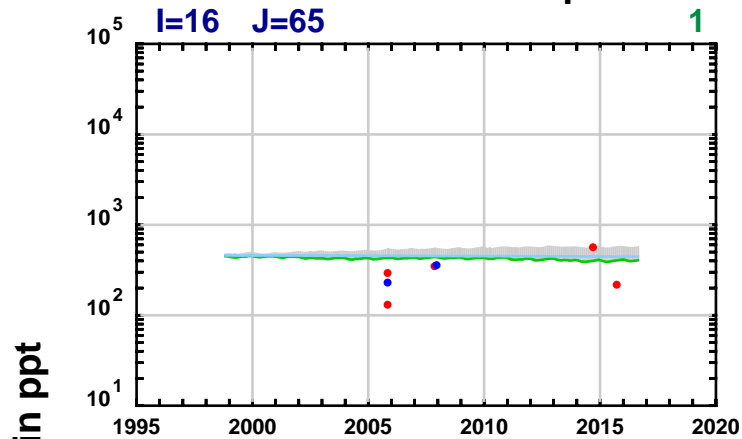
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1



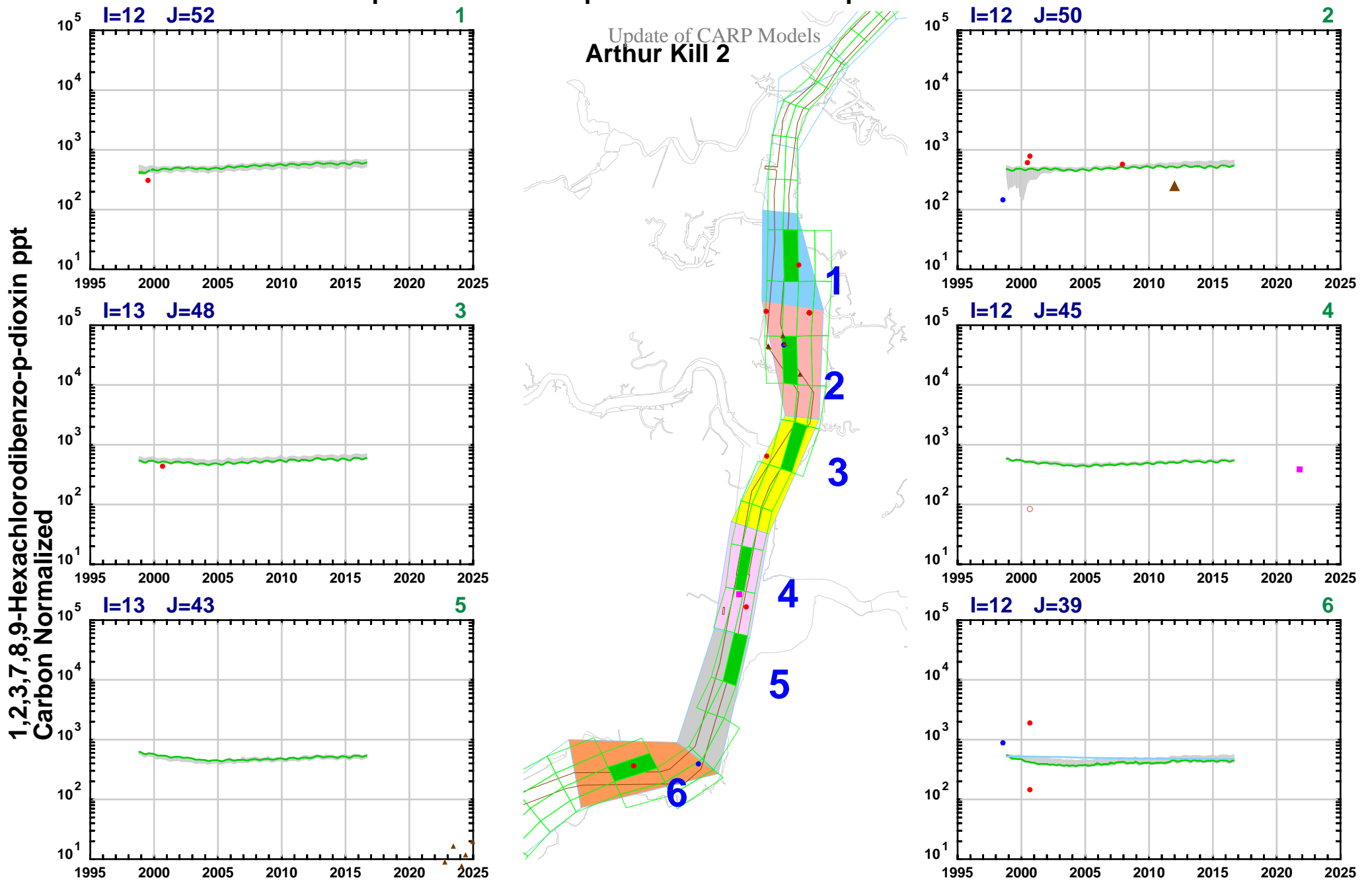
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin ppt  
Carbon Normalized

RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

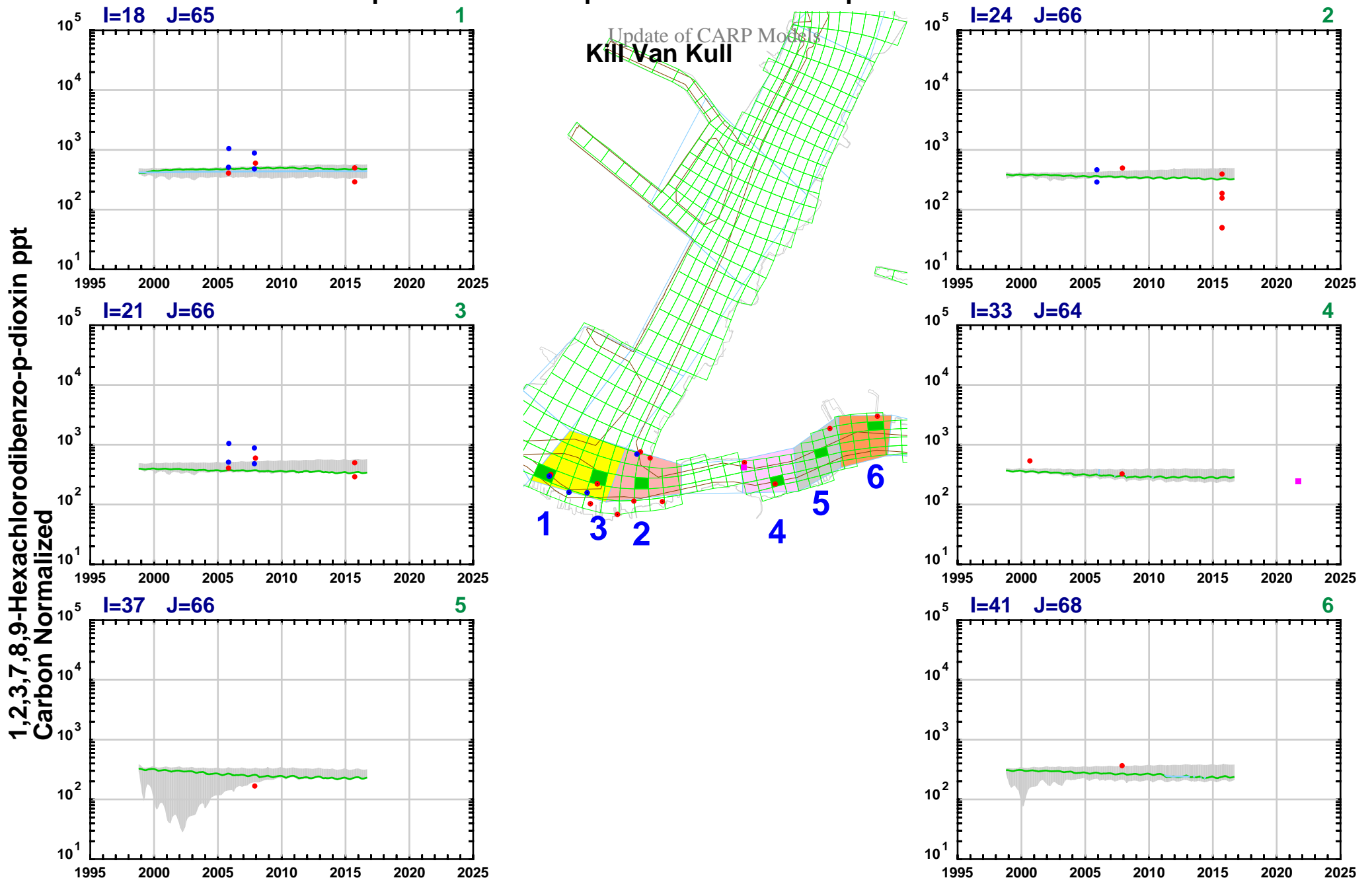


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

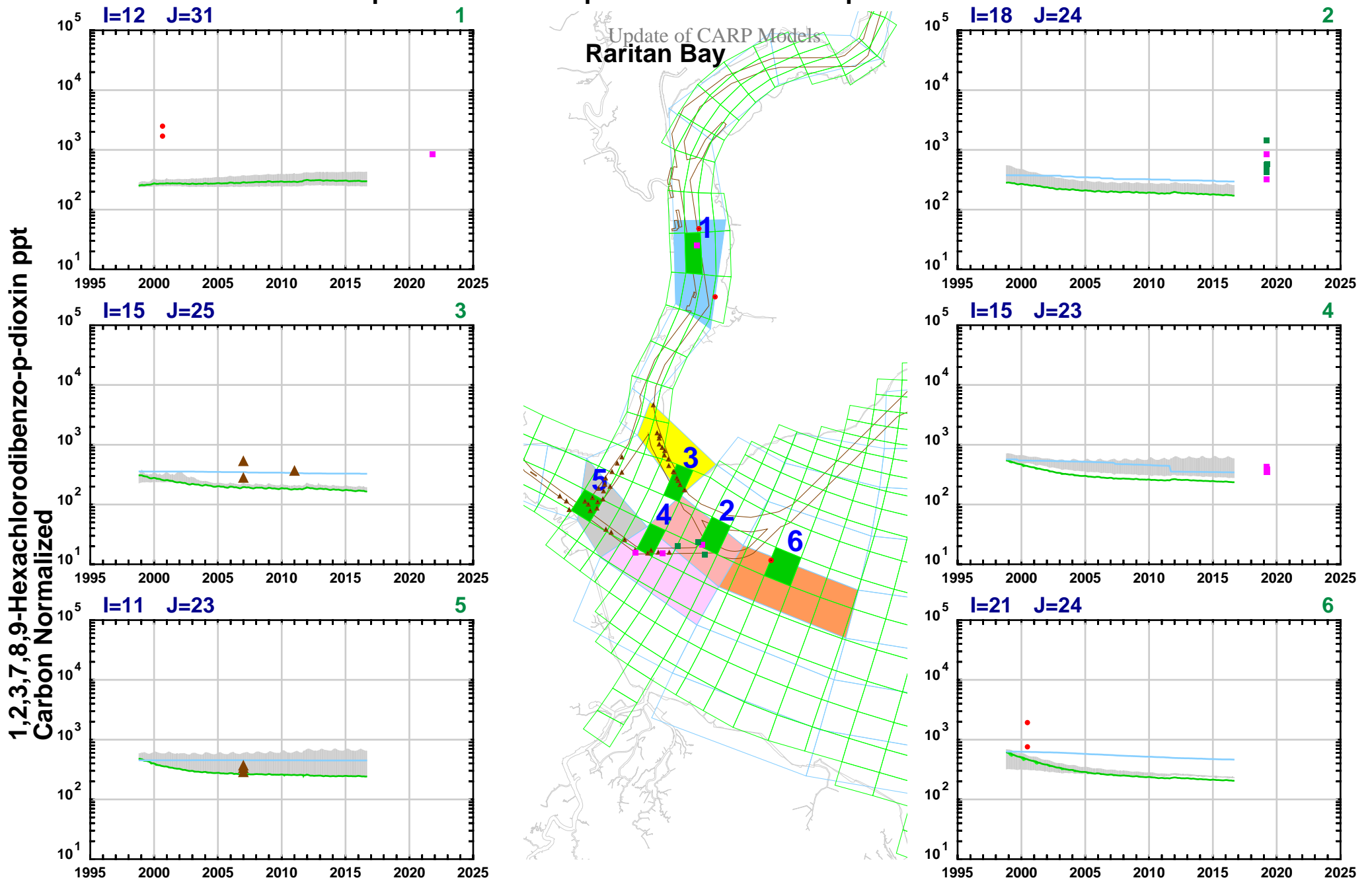


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

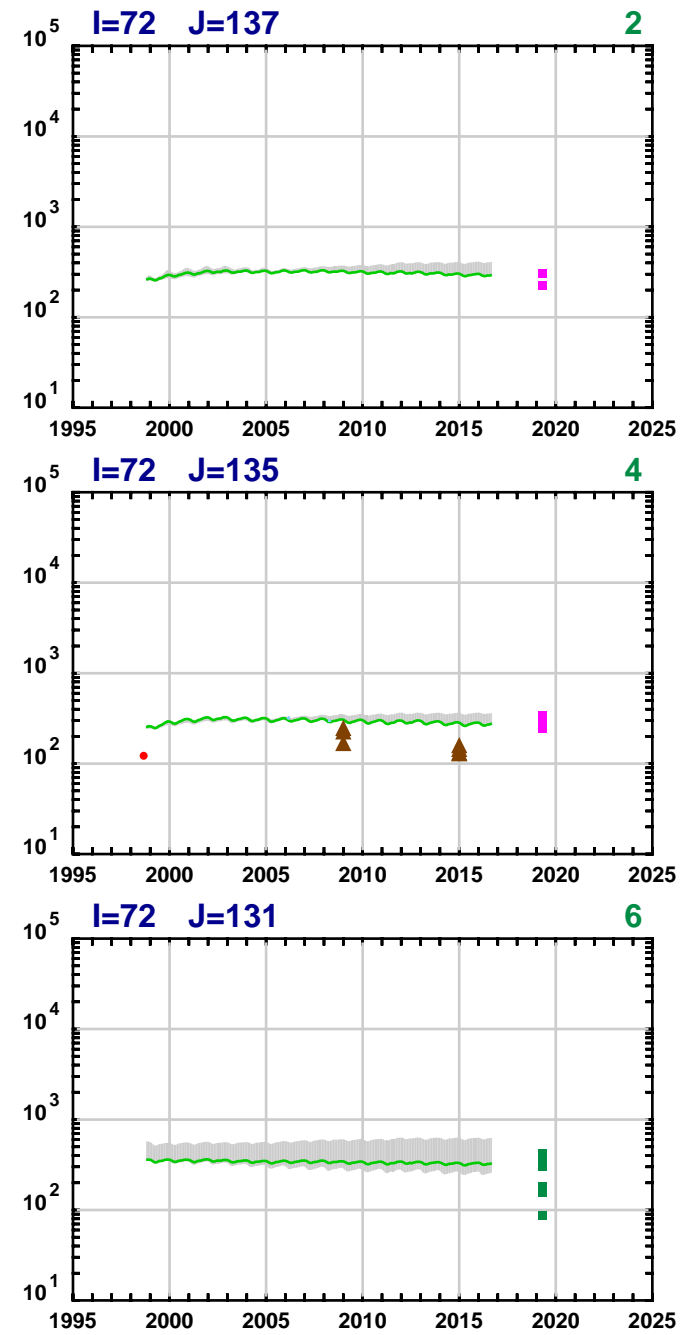
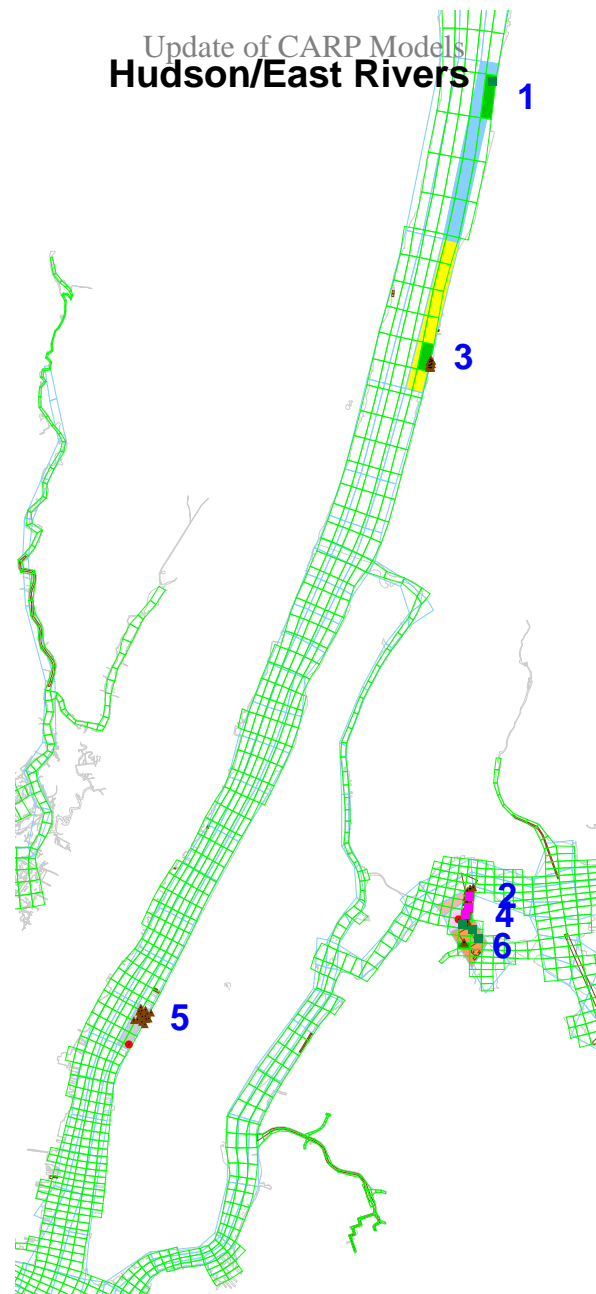
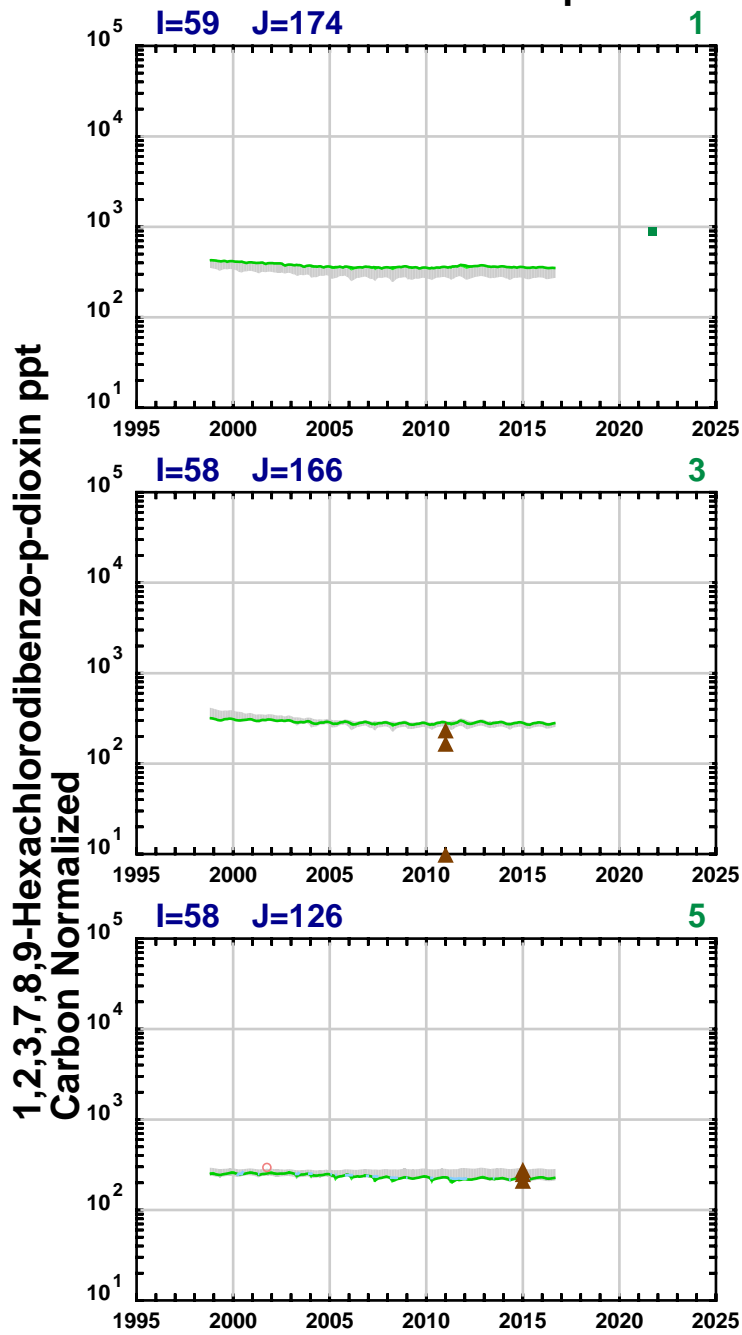


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data**    **● Off-channel data**    **▲ Dredge data**  
**■ CARP2 In-channel**    **■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

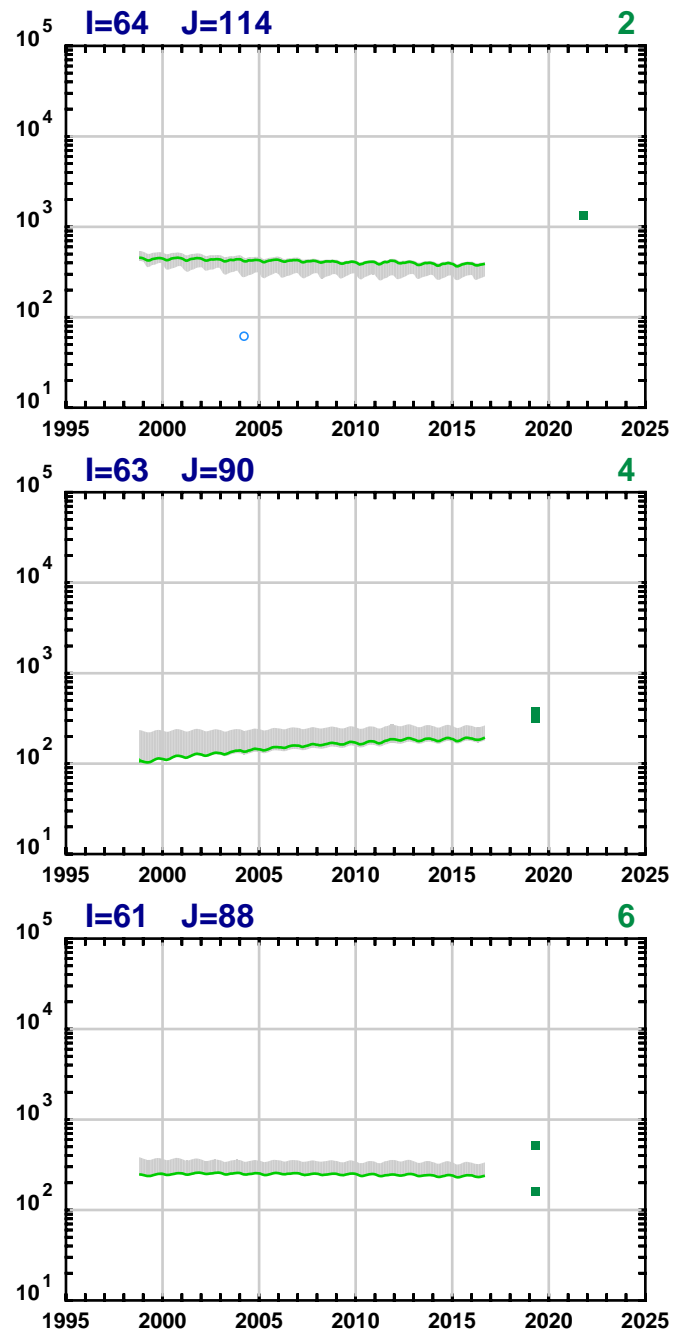
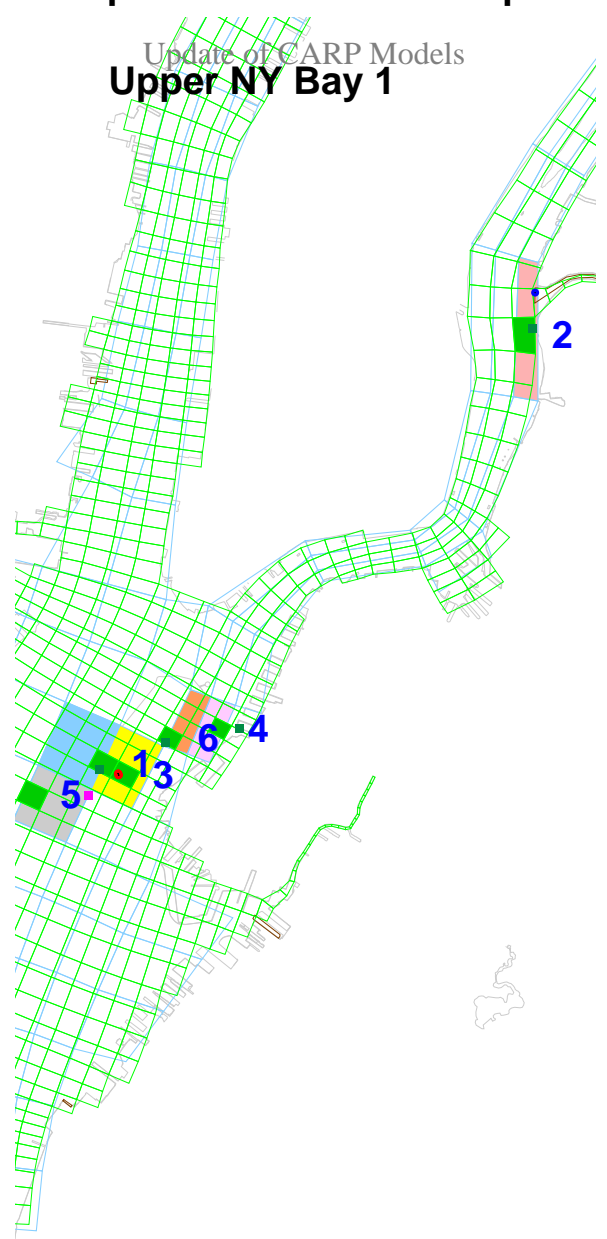
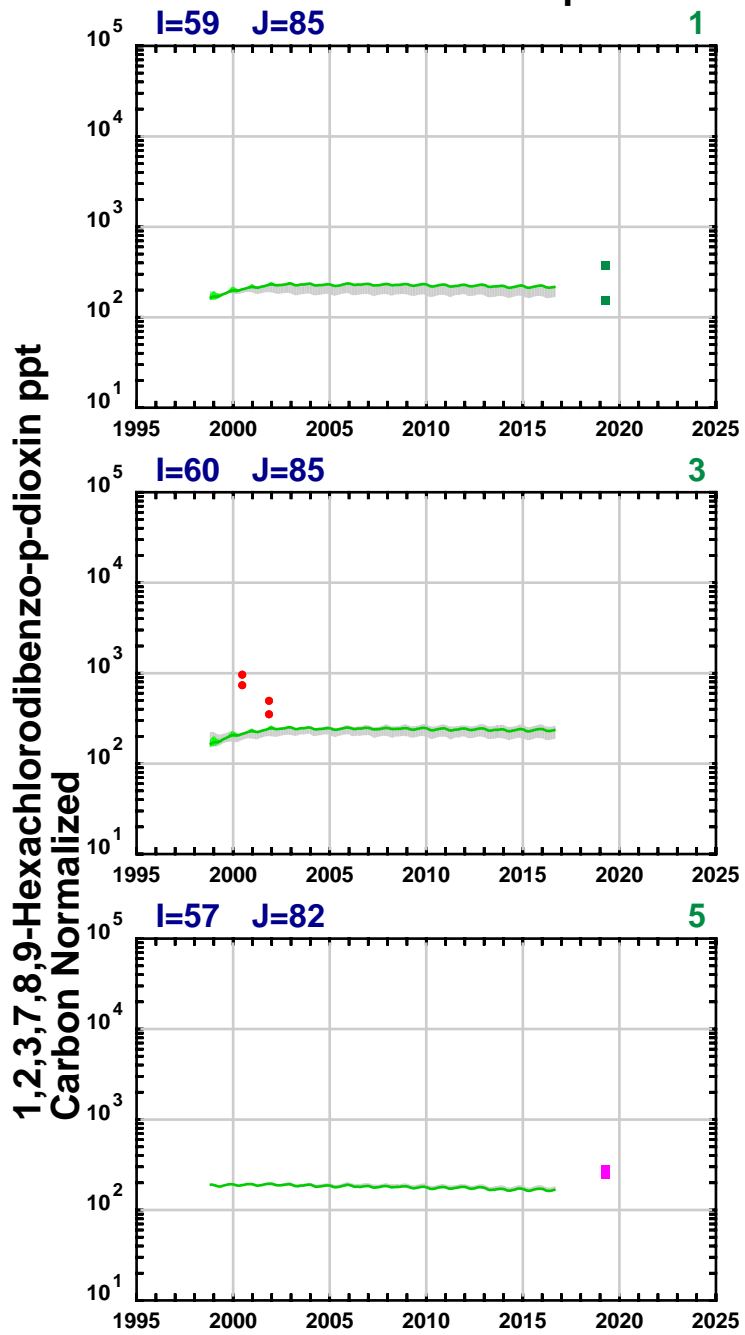


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data ● Off-channel data ▲ Dredge data**  
**■ CARP2 In-channel ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment



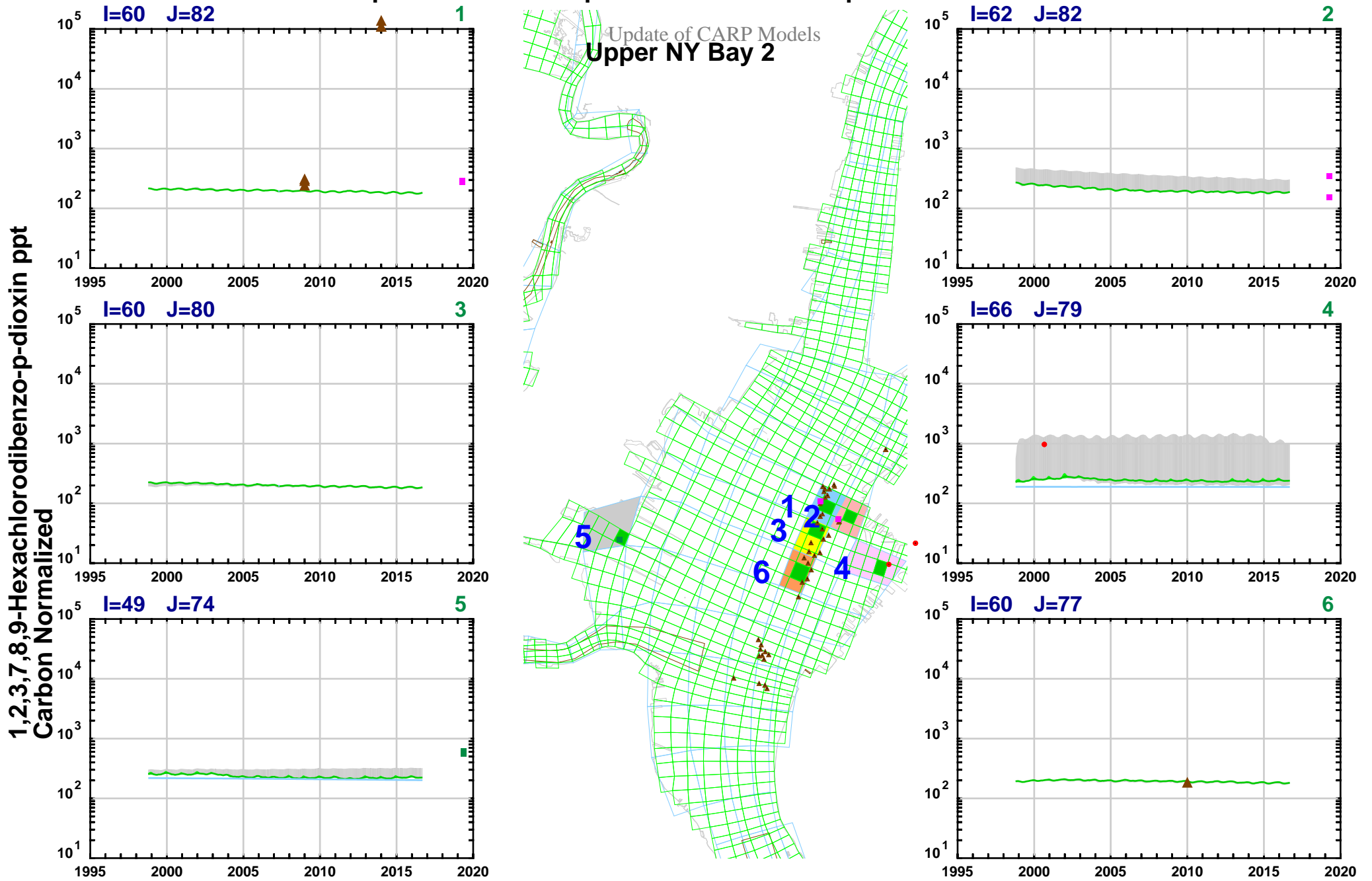
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

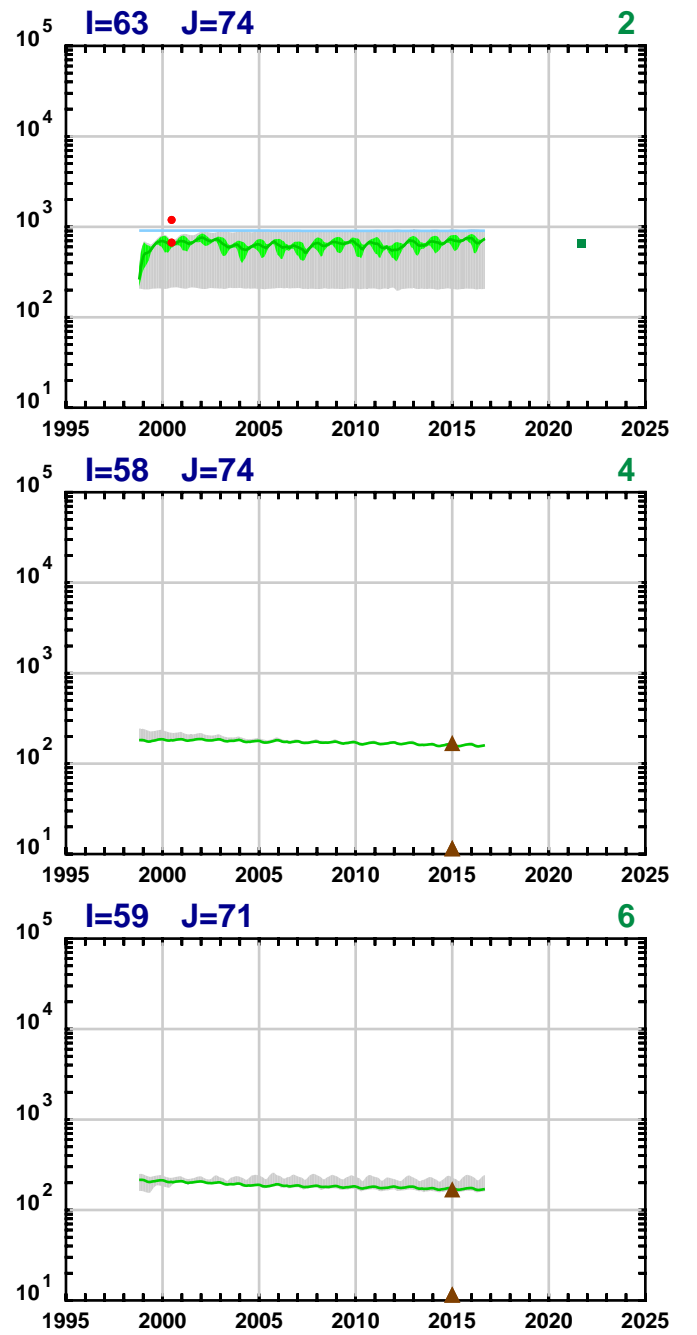
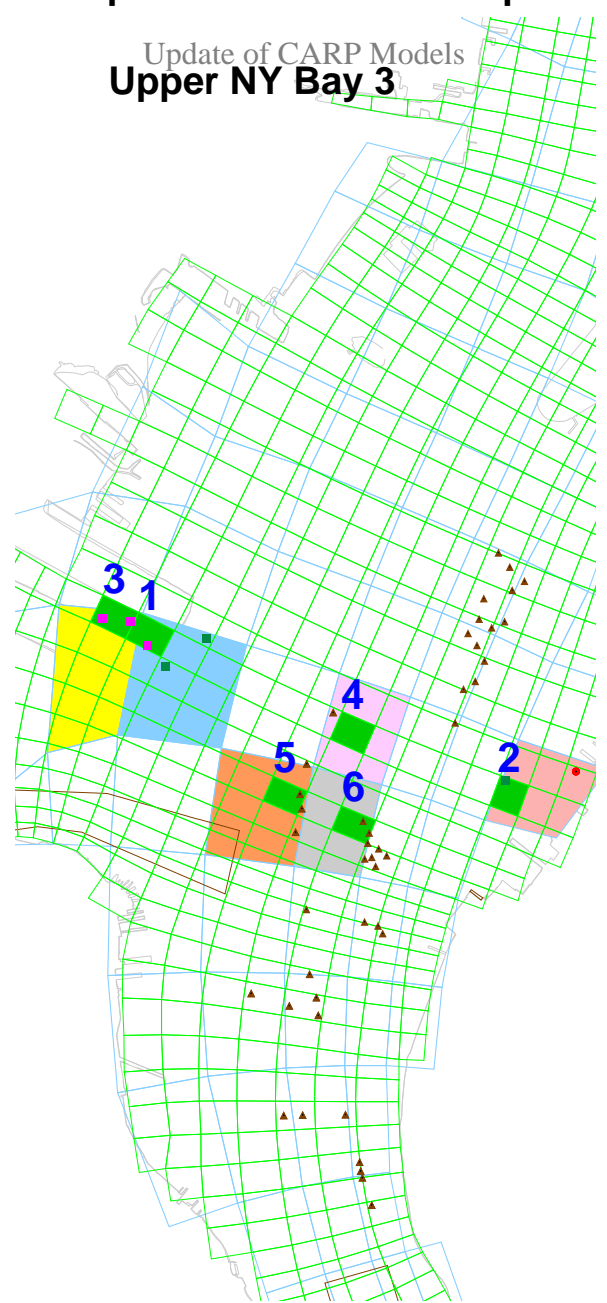
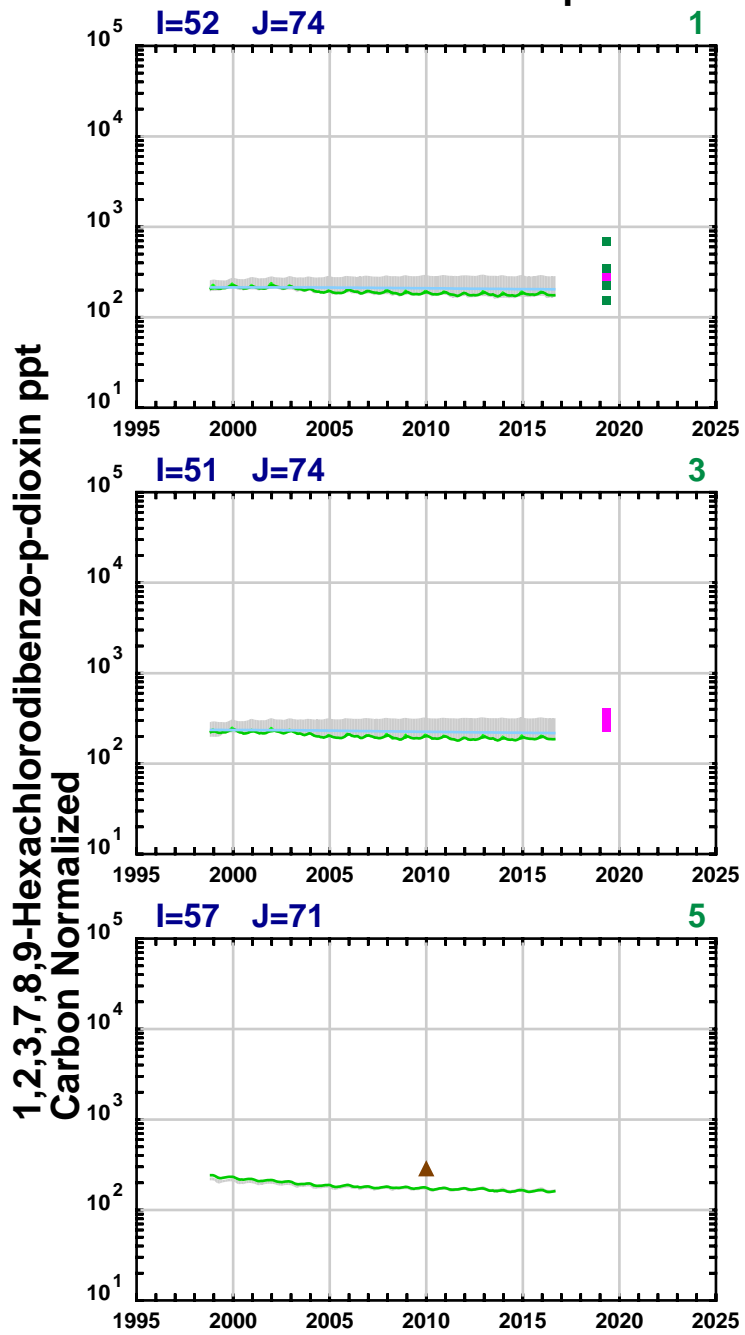


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

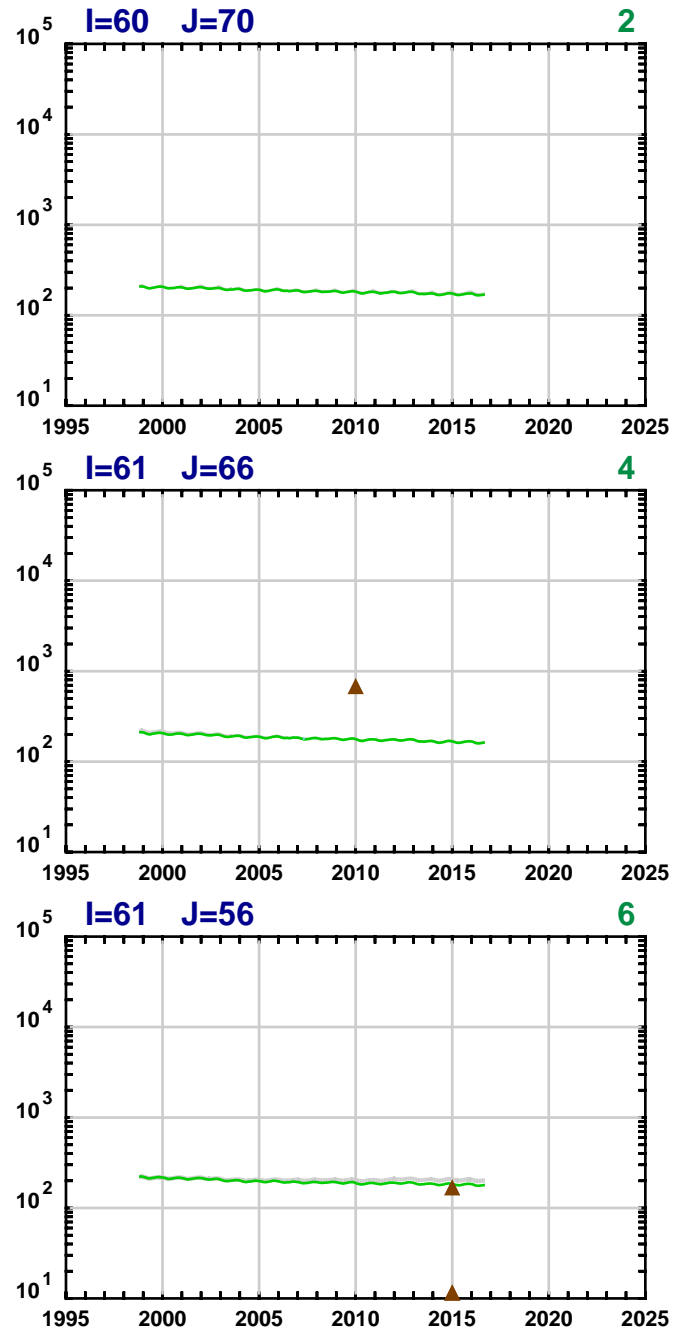
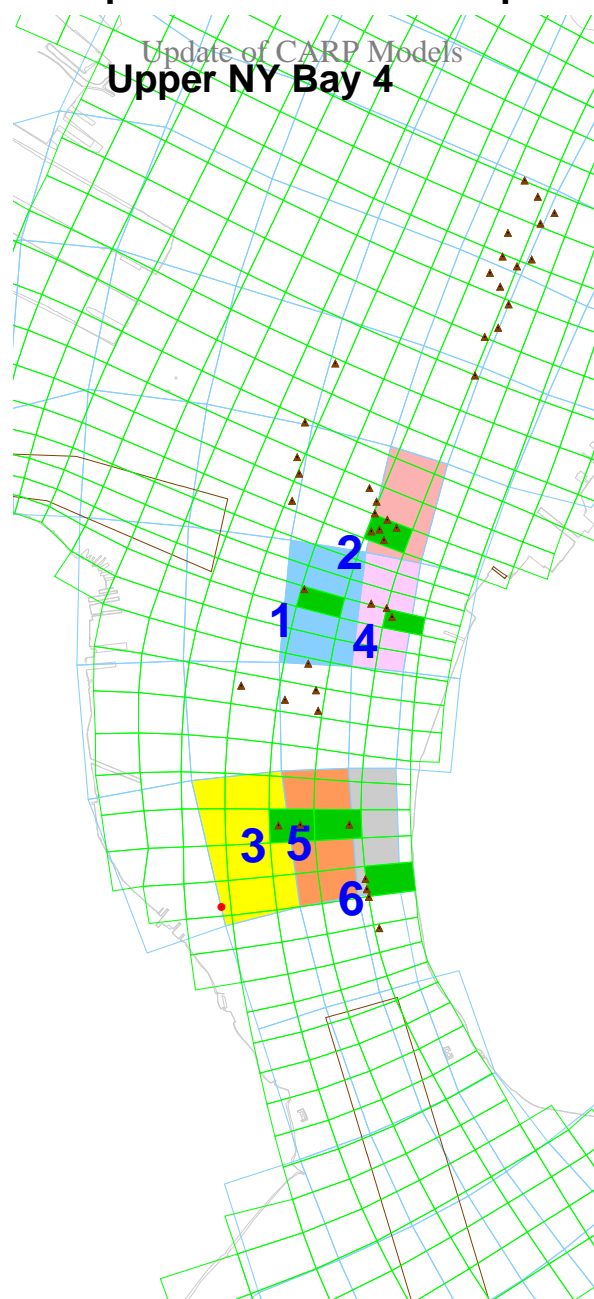
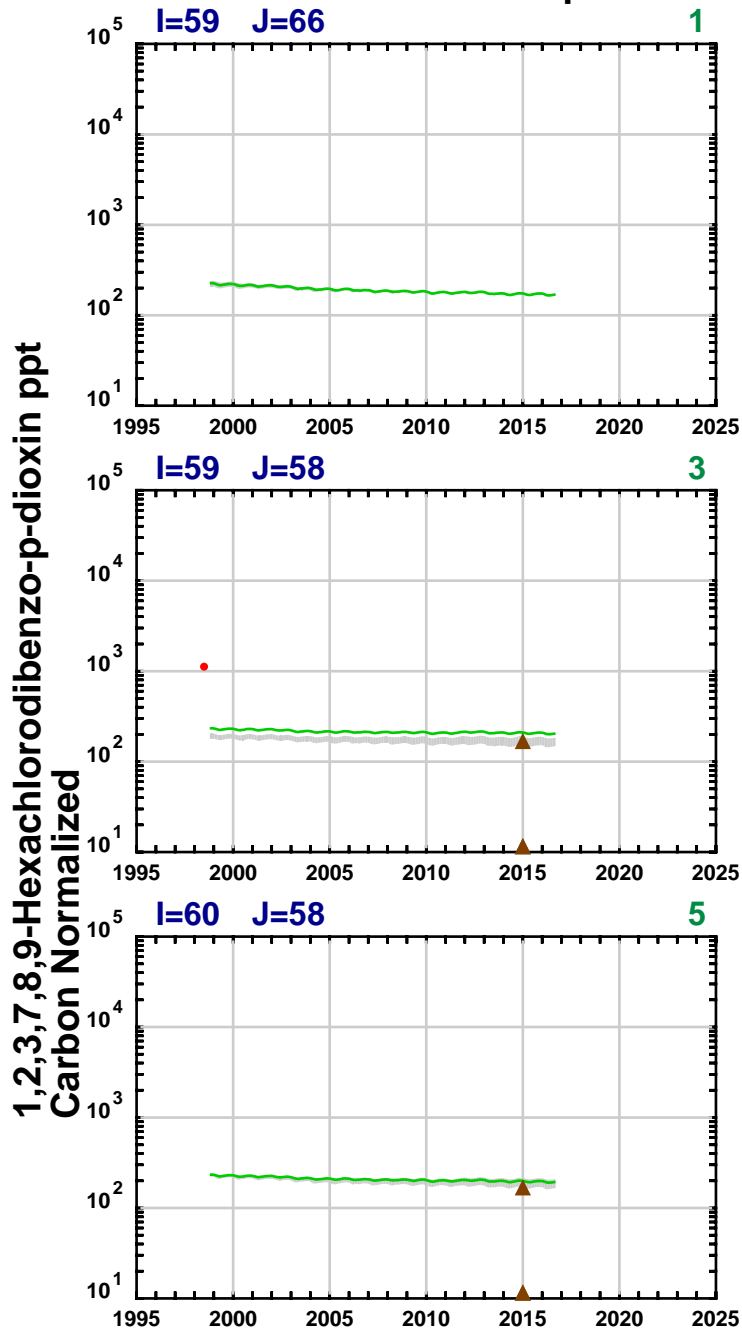


RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

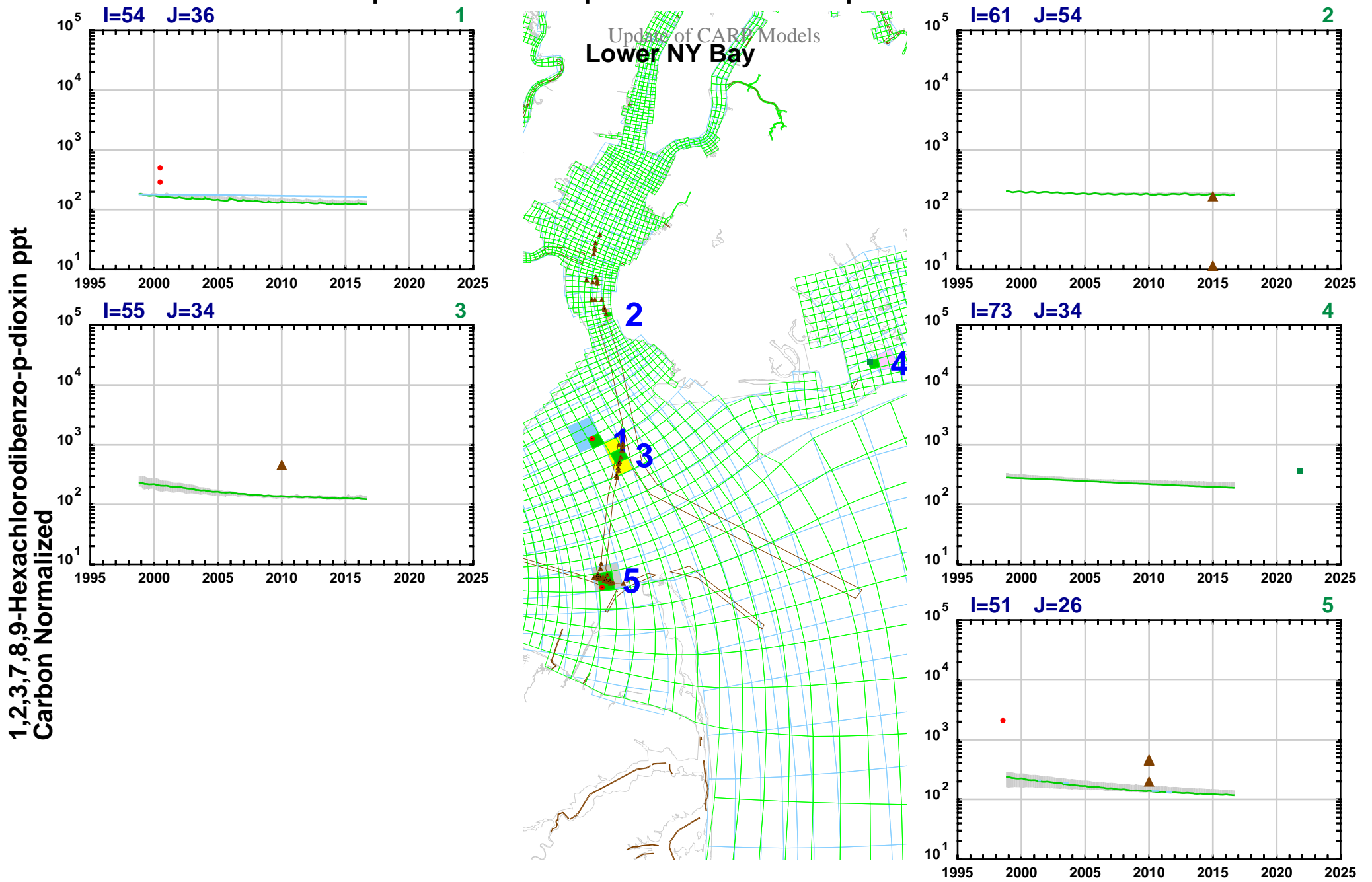


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data ● Off-channel data ▲ Dredge data**  
**■ CARP2 In-channel ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

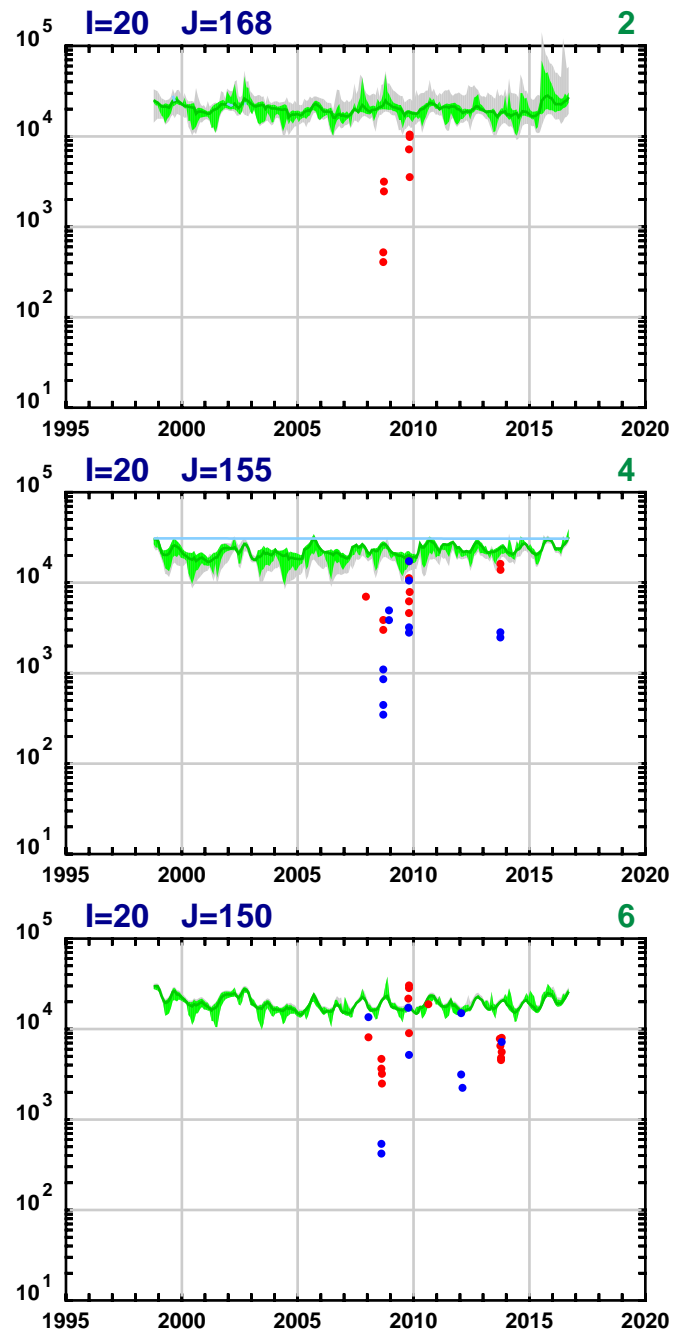
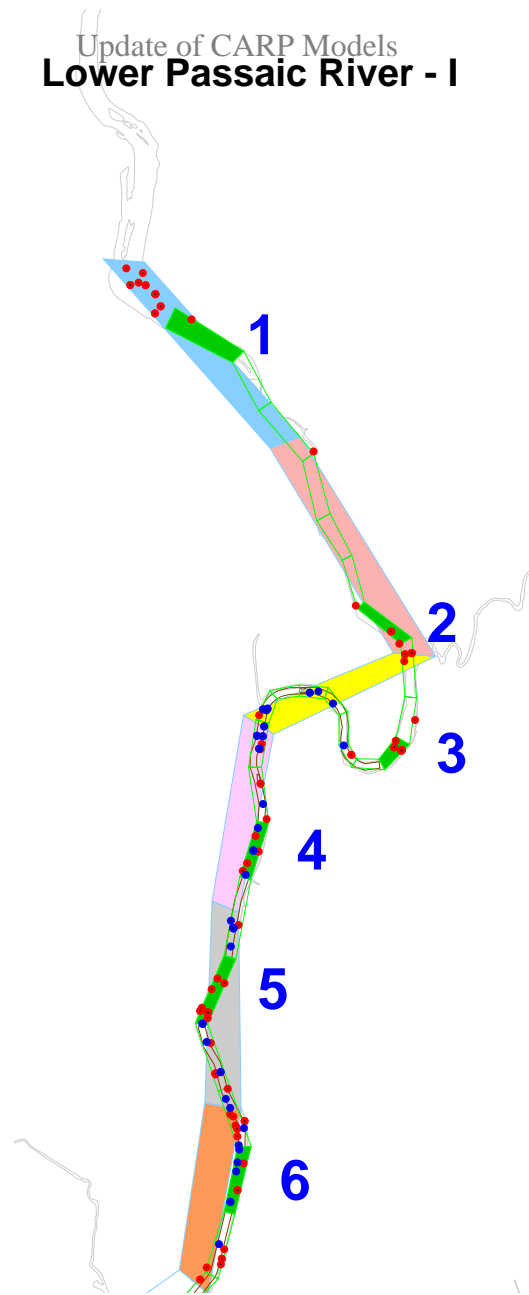
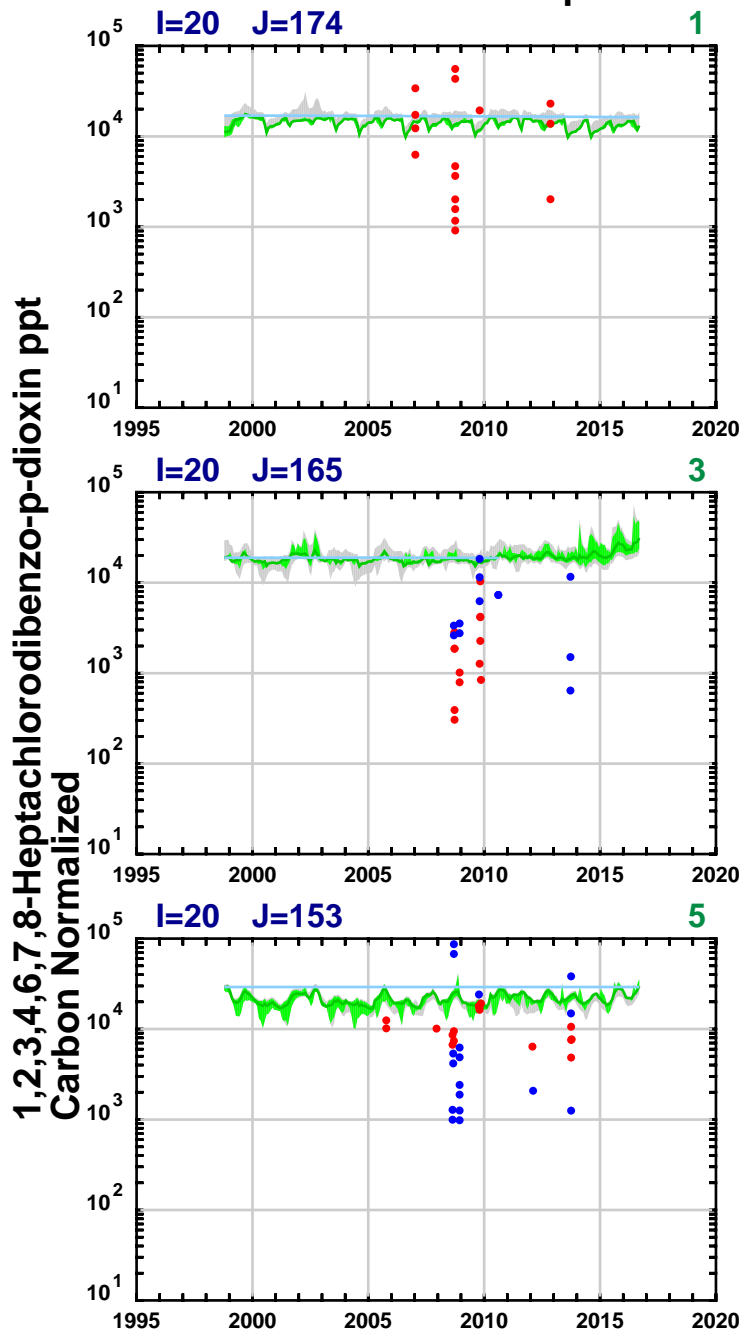


RUN18\_S3

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CAPP2 In-channel ■ CAPP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

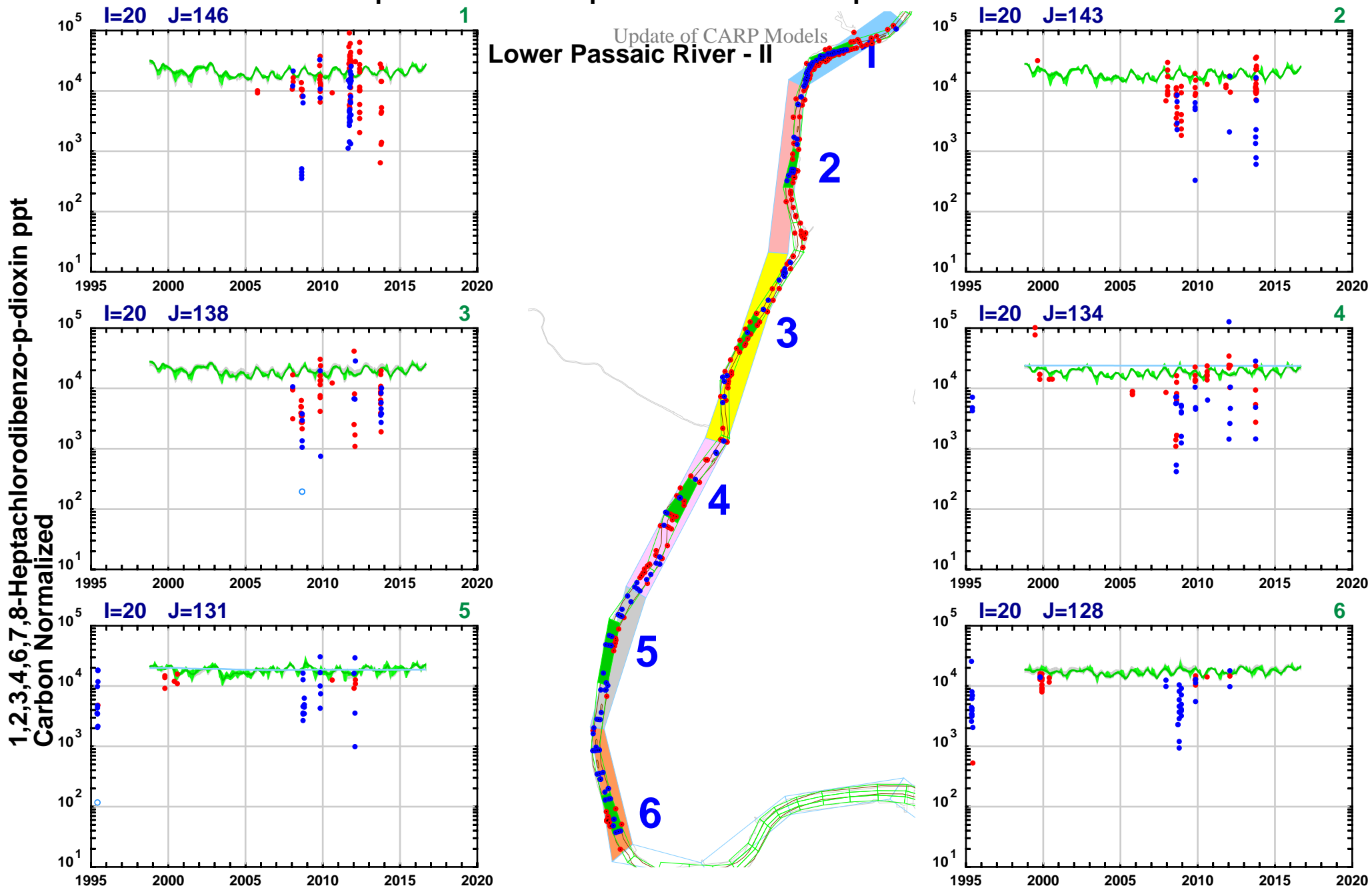


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



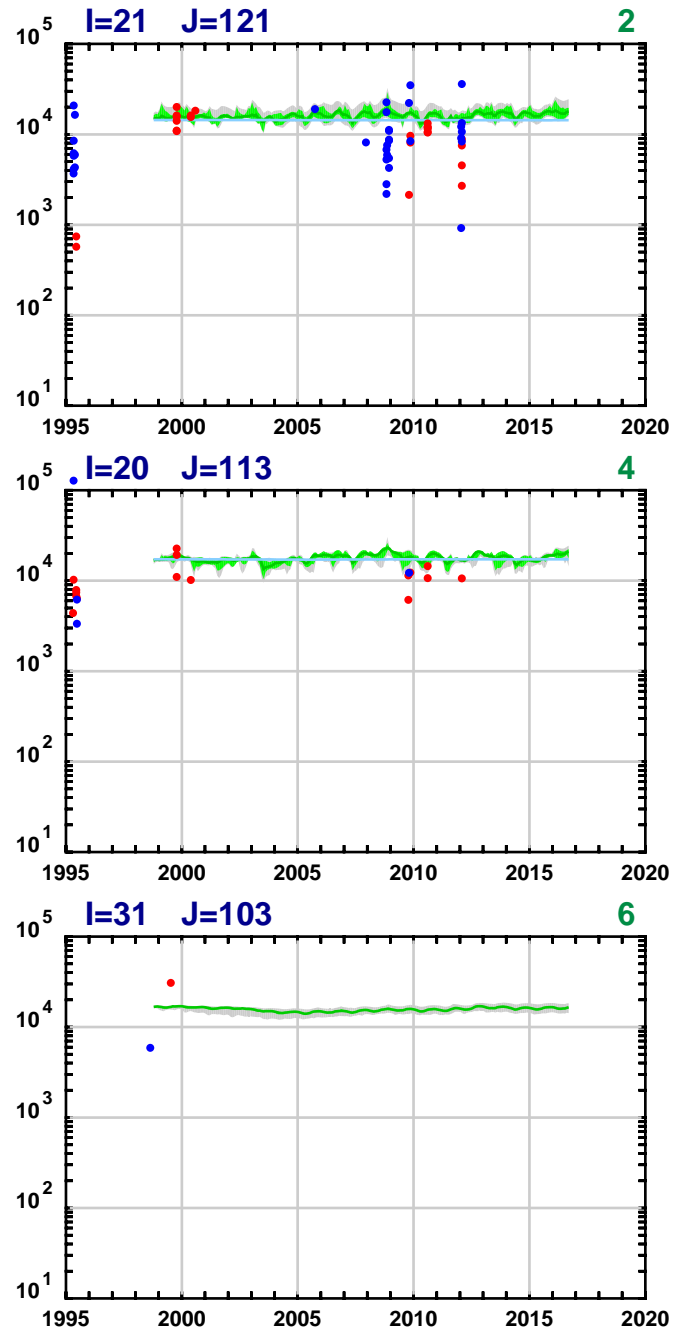
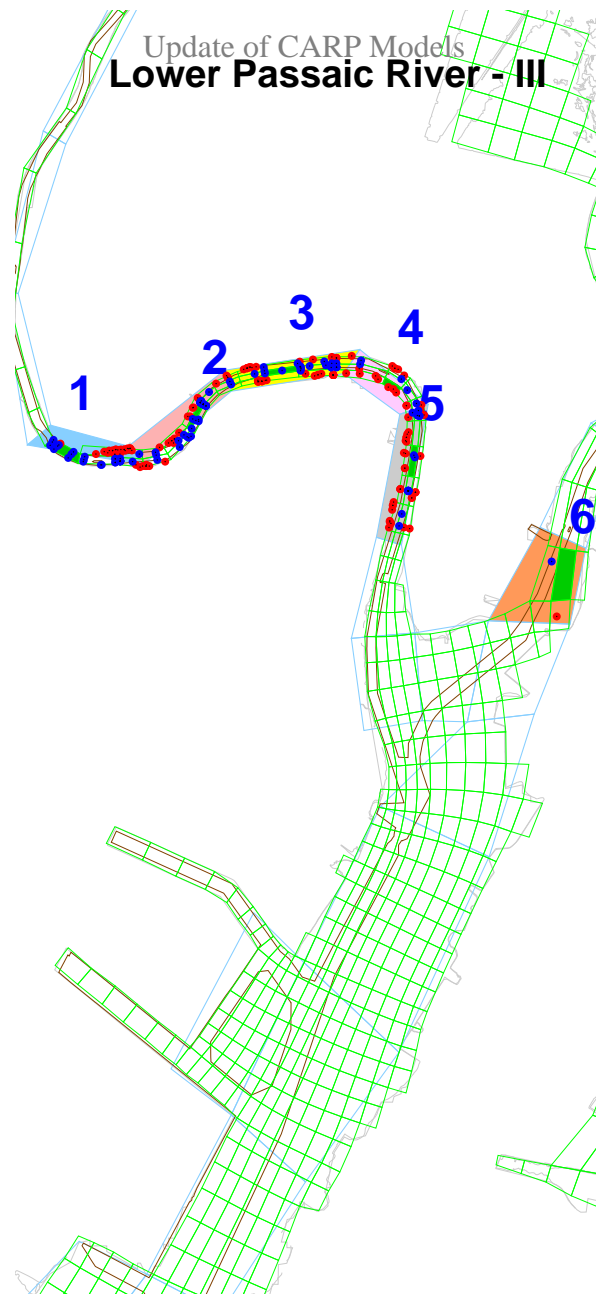
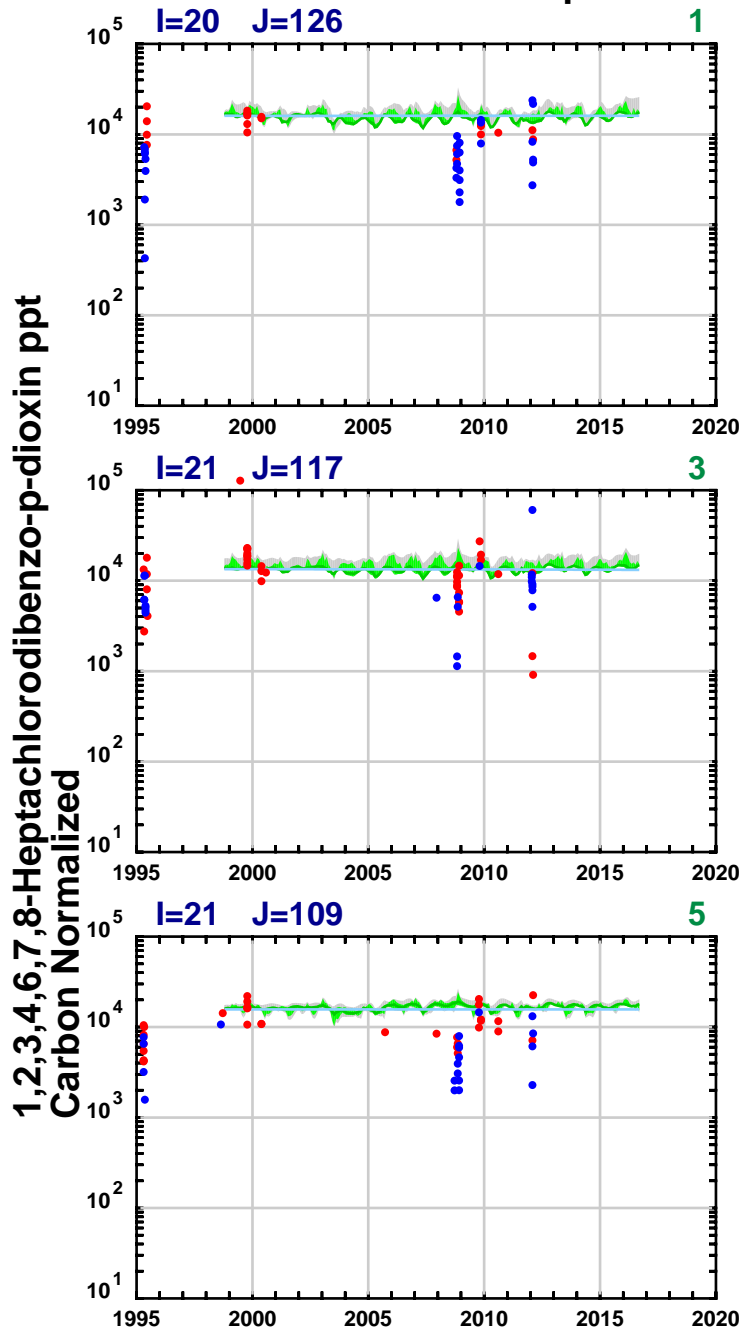
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



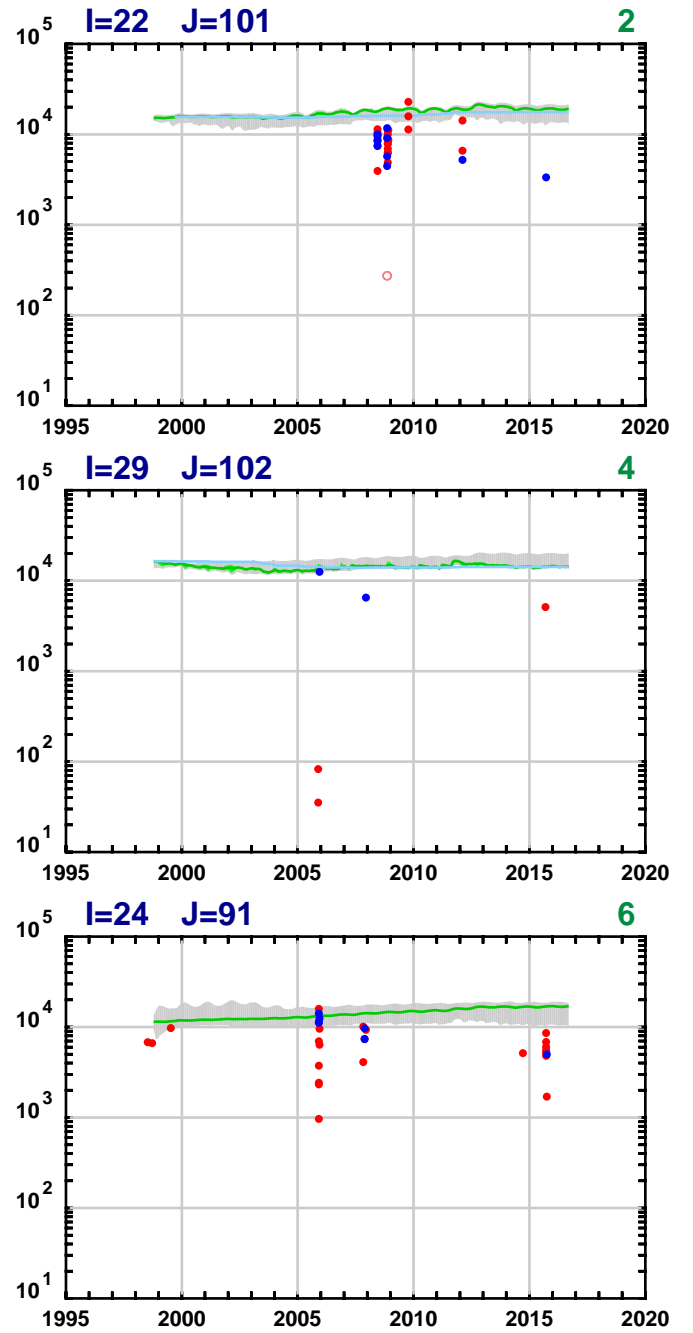
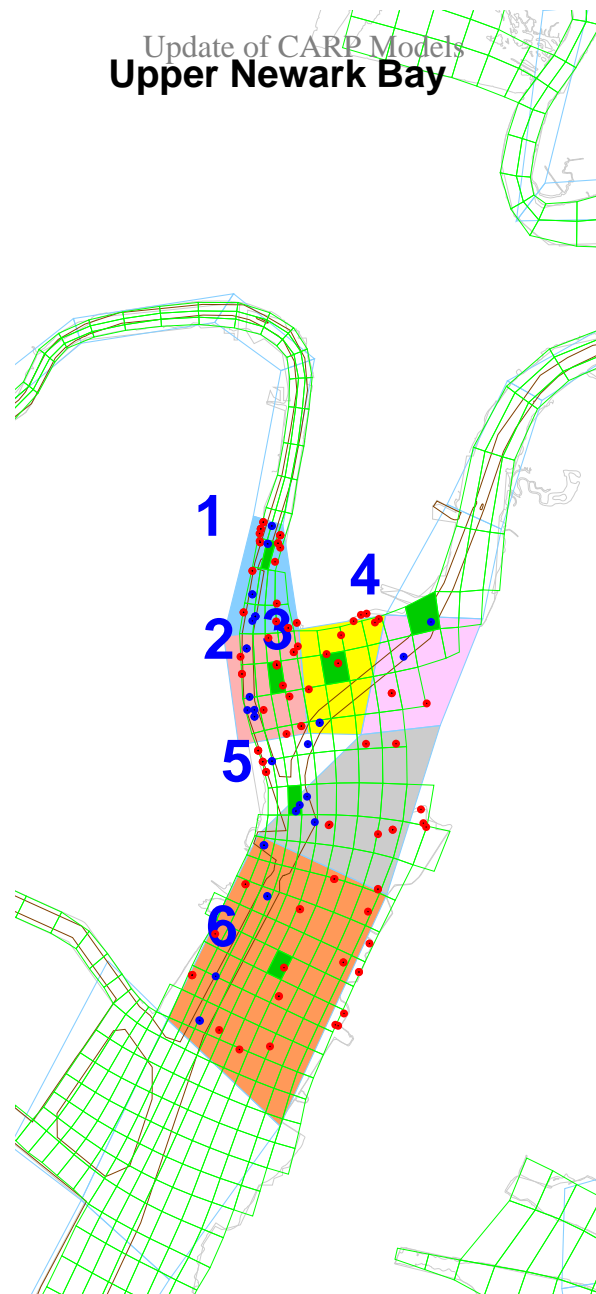
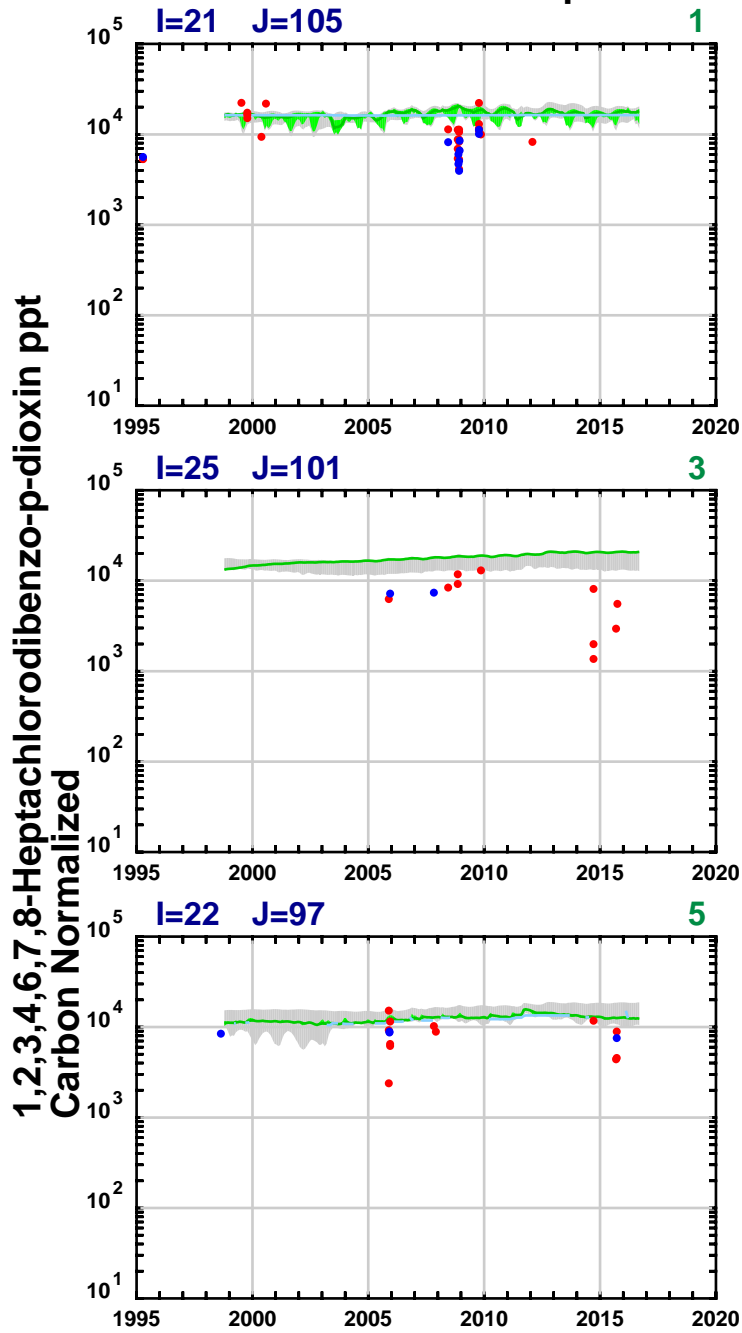
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

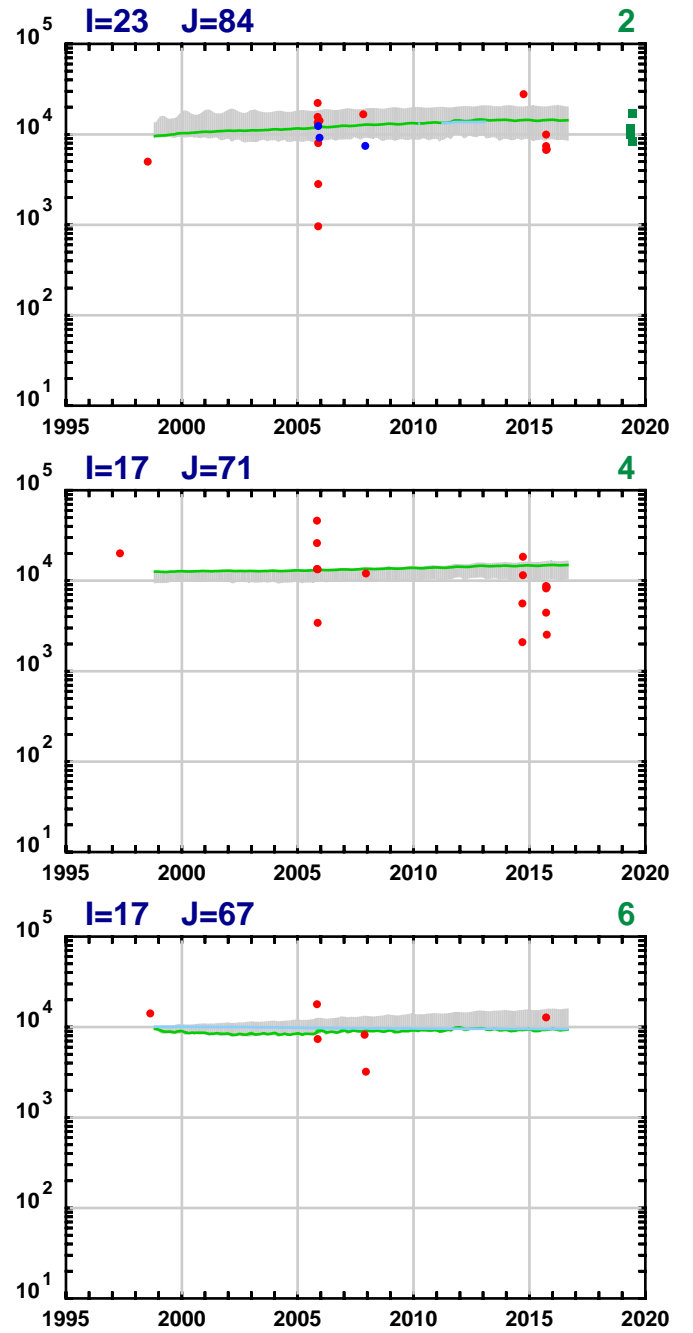
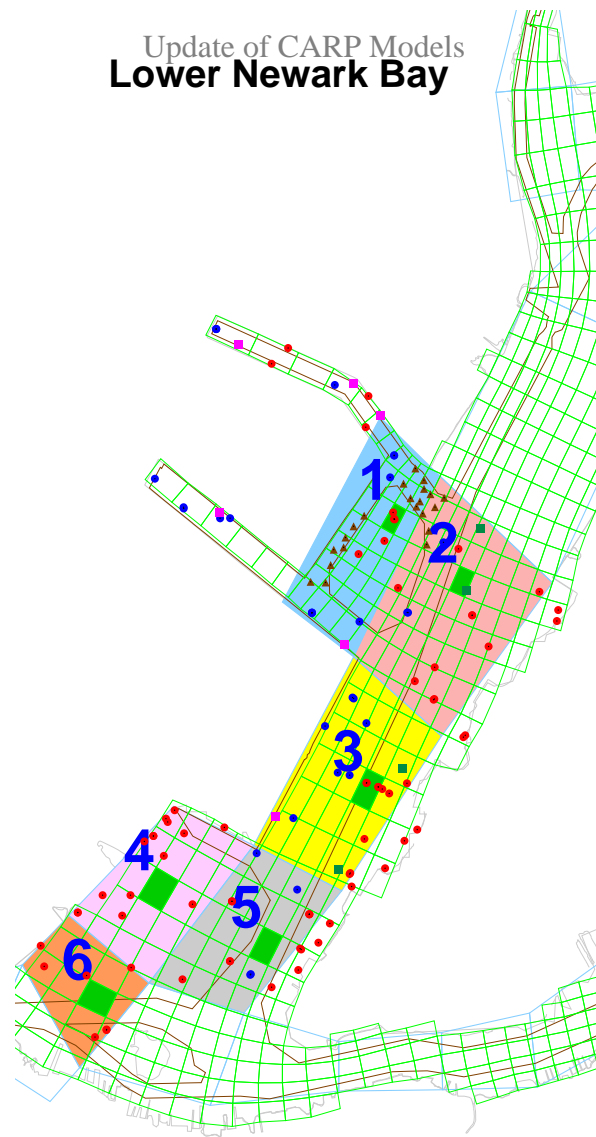
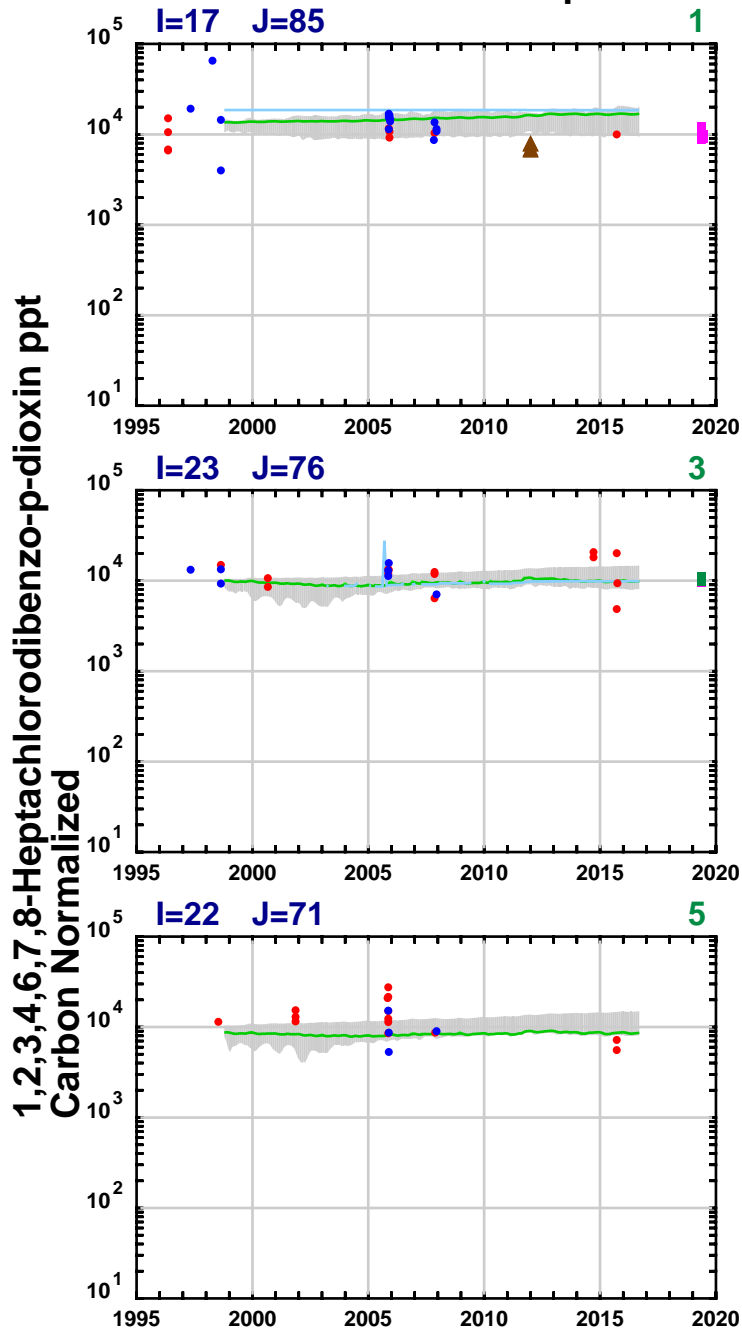


RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



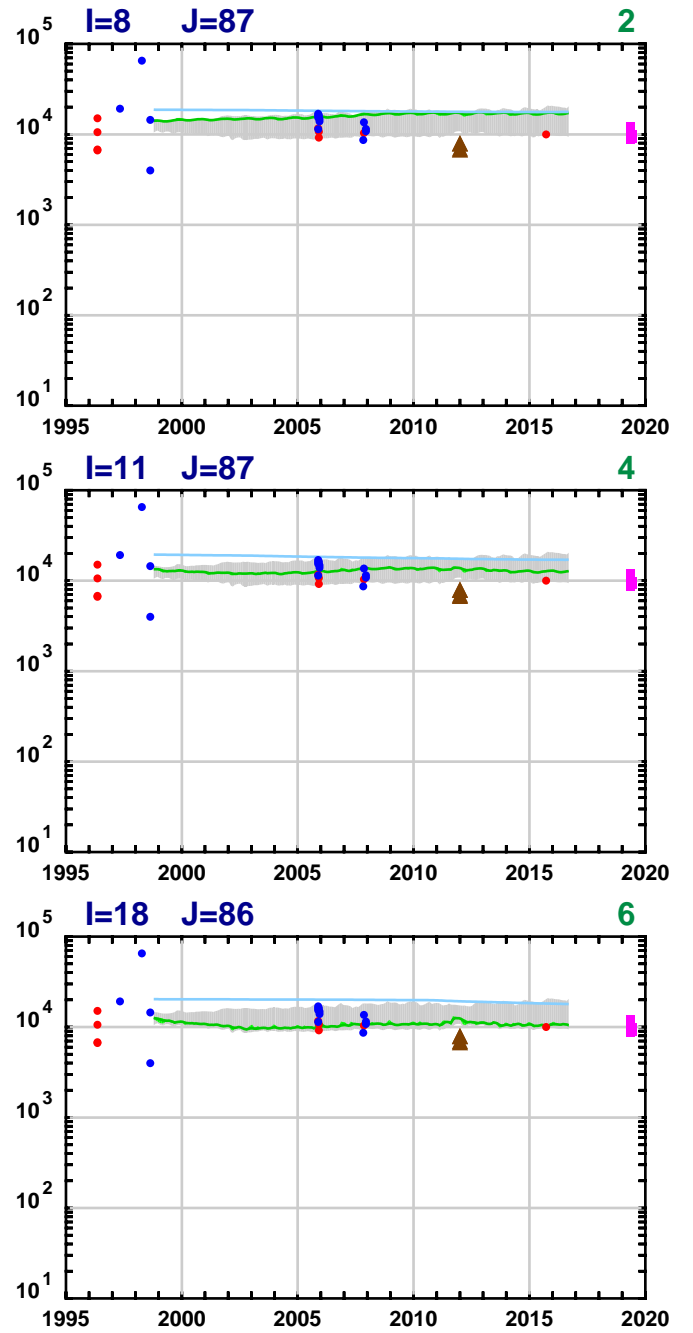
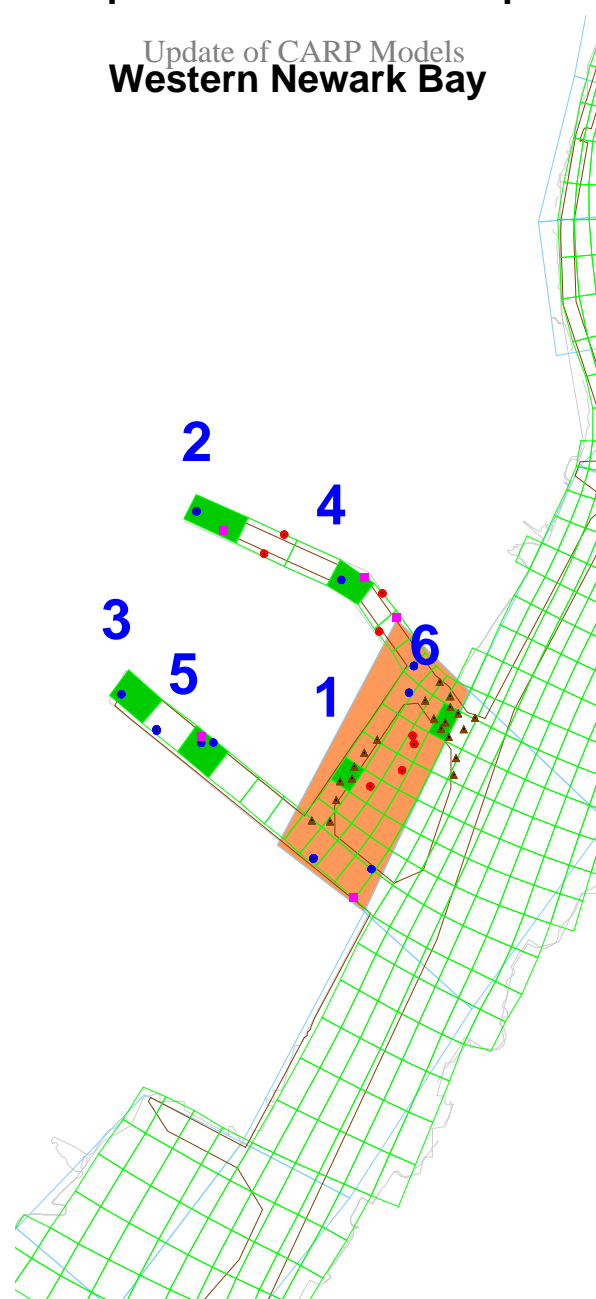
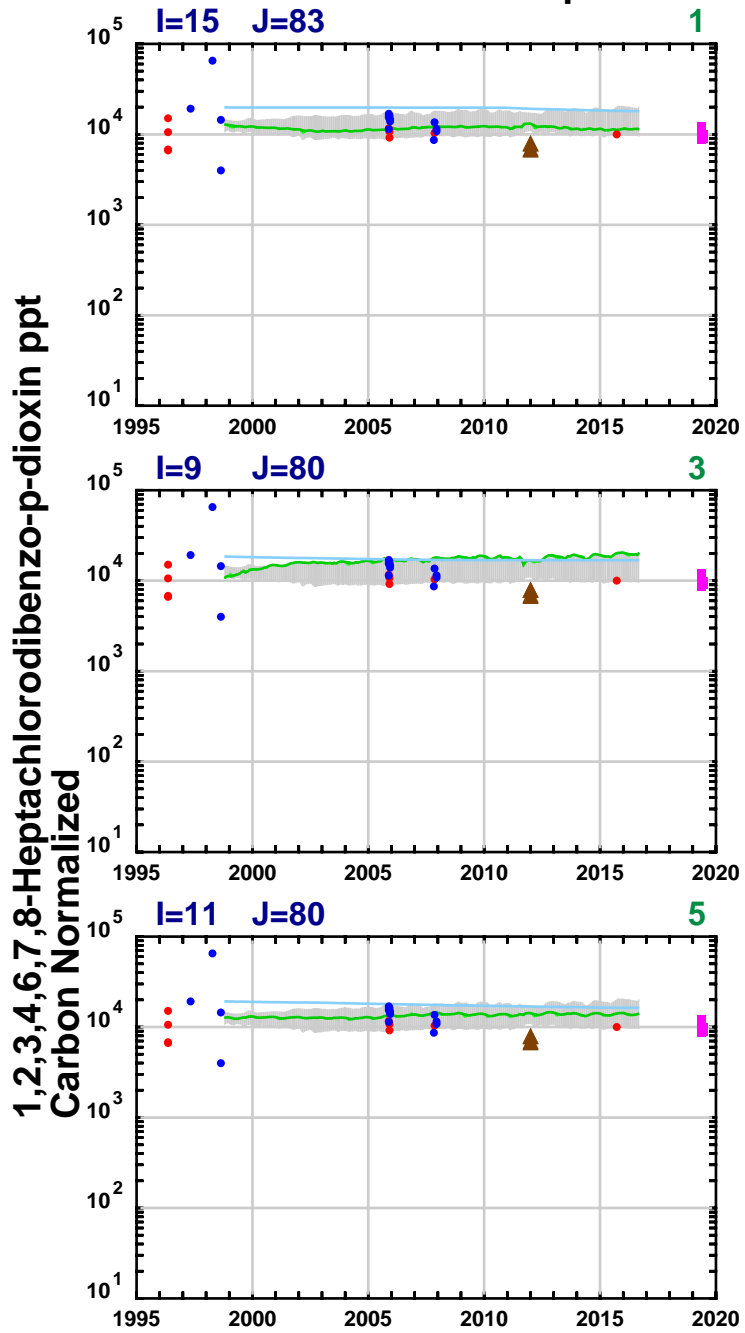
RUN18\_S3

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay



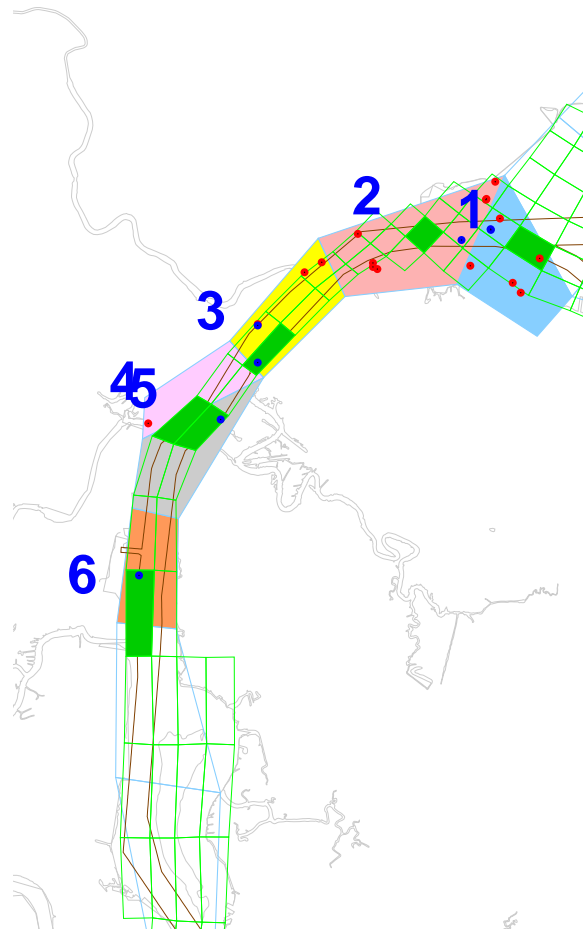
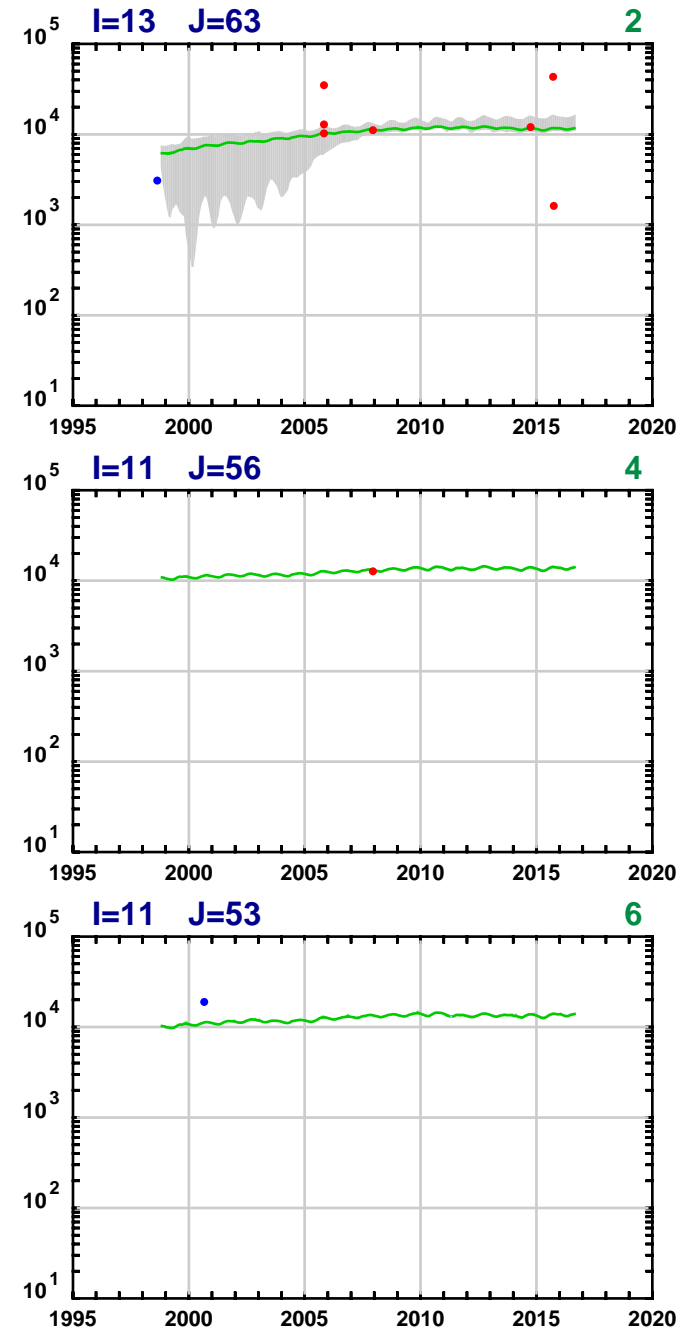
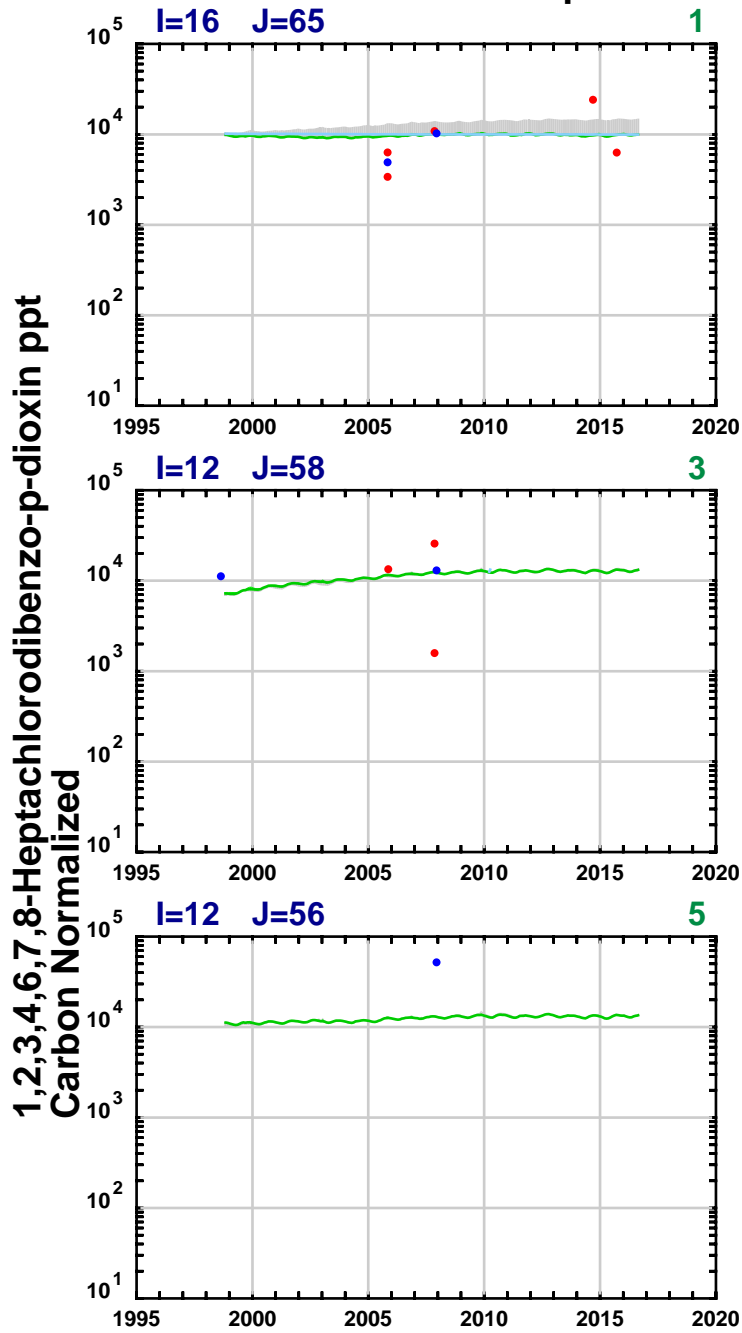
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

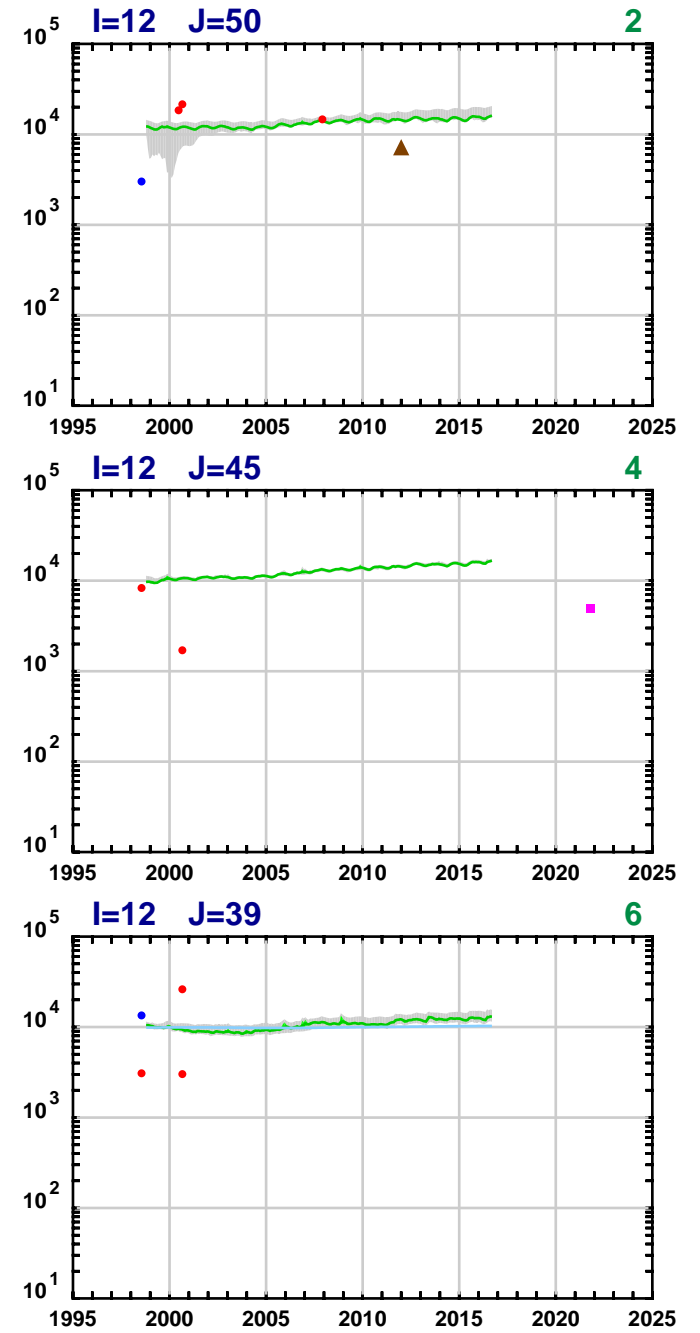
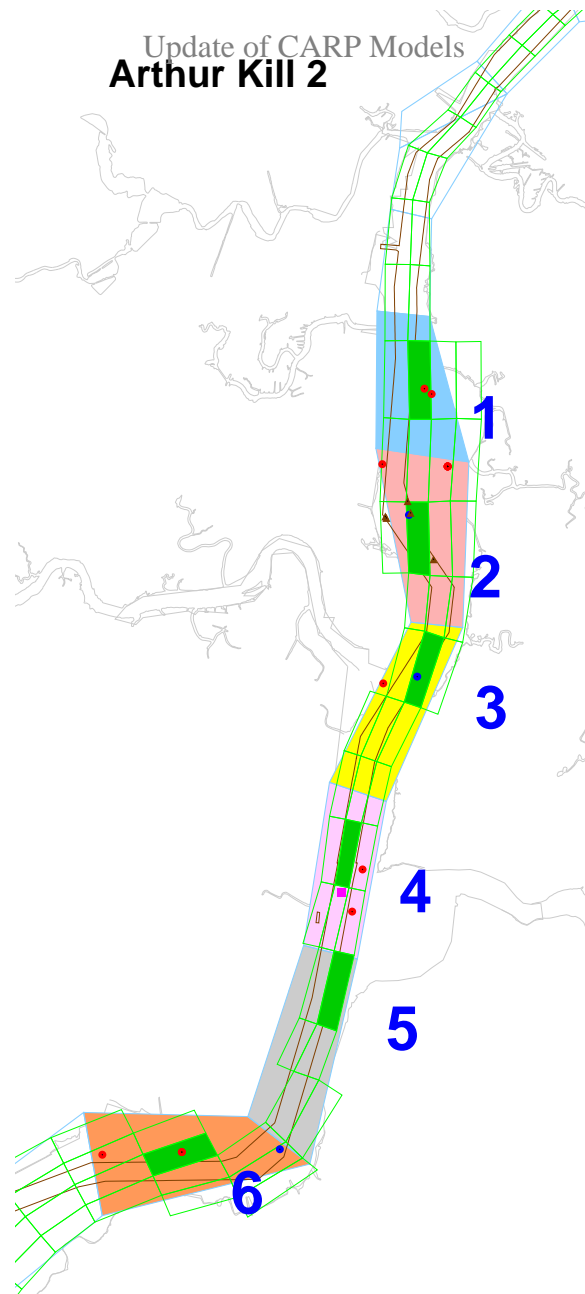
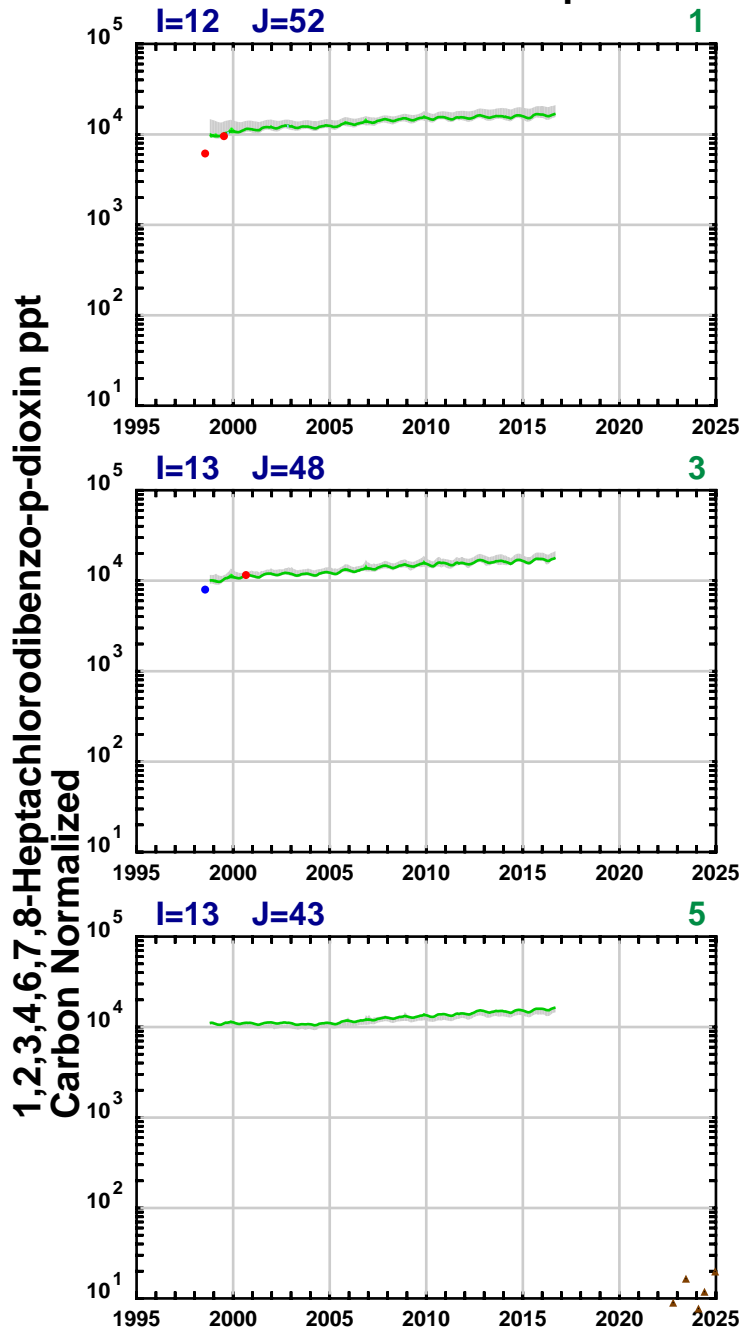


RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

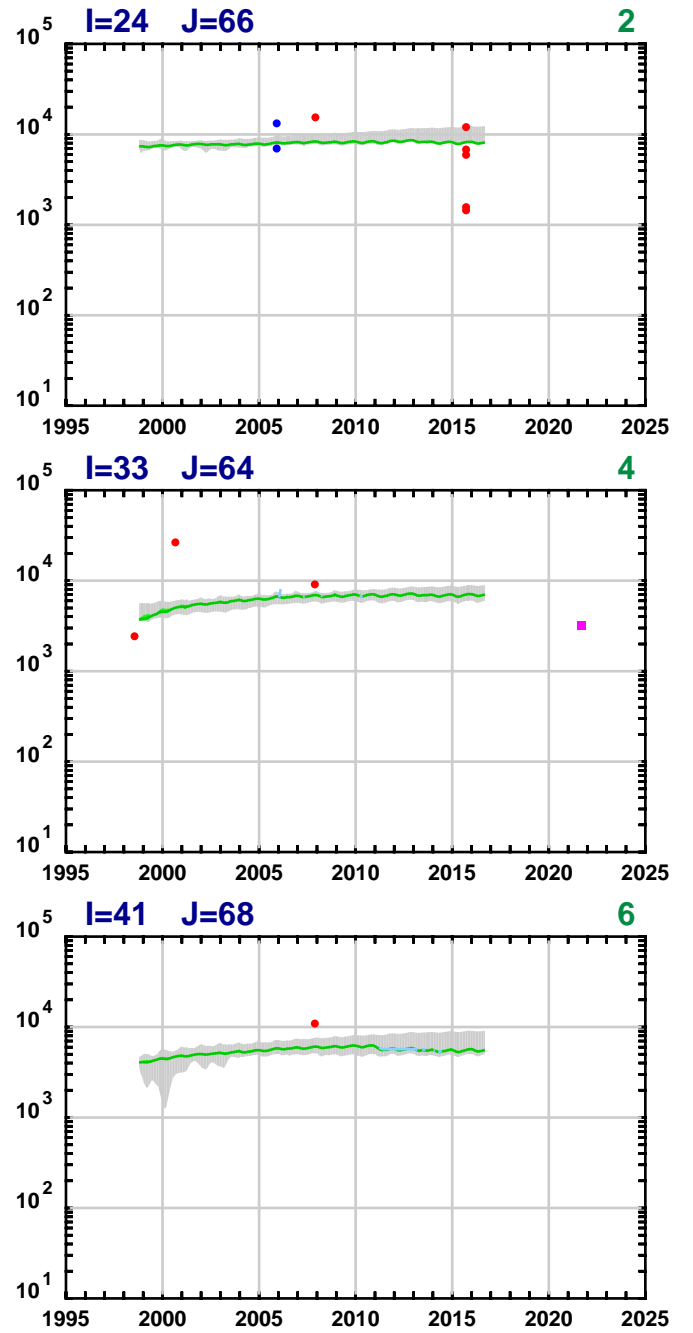
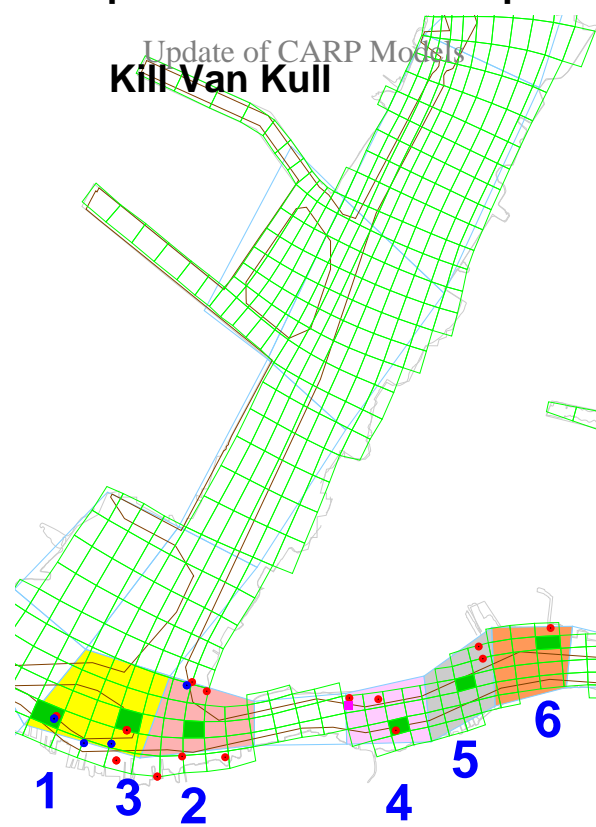
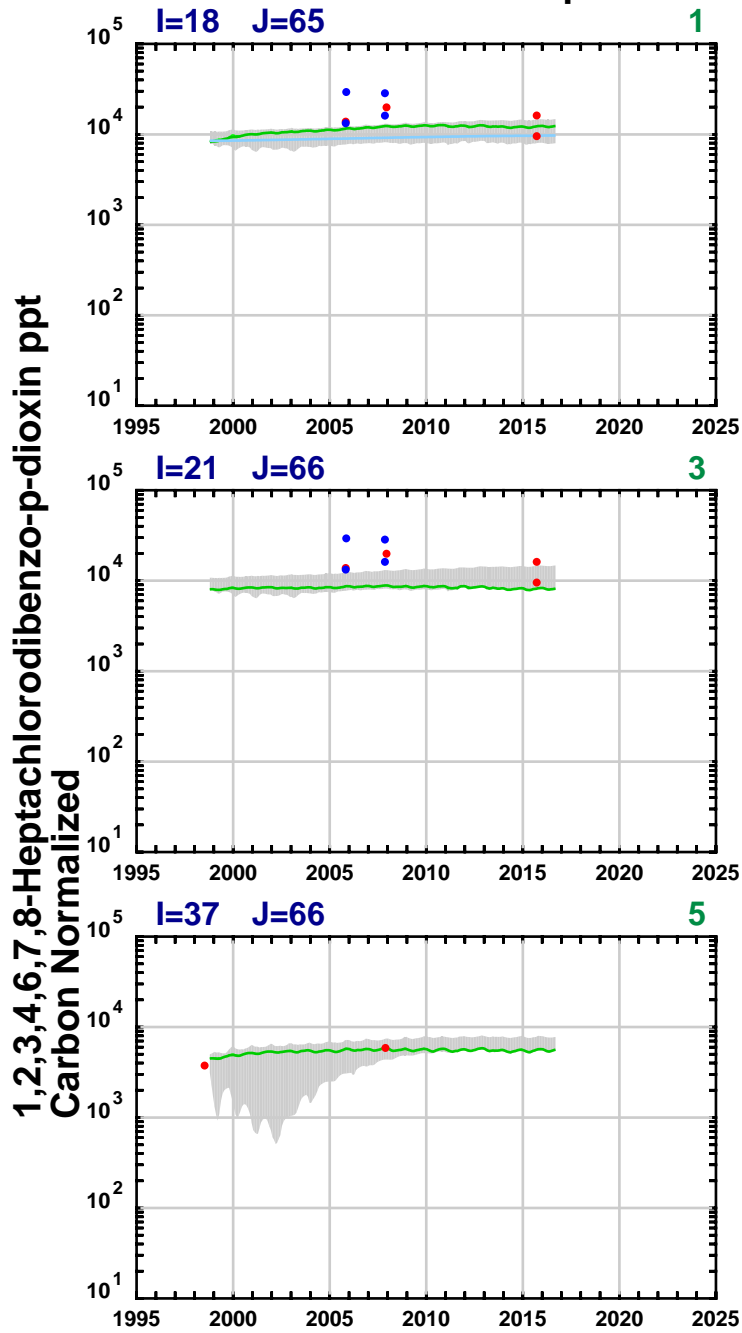


RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

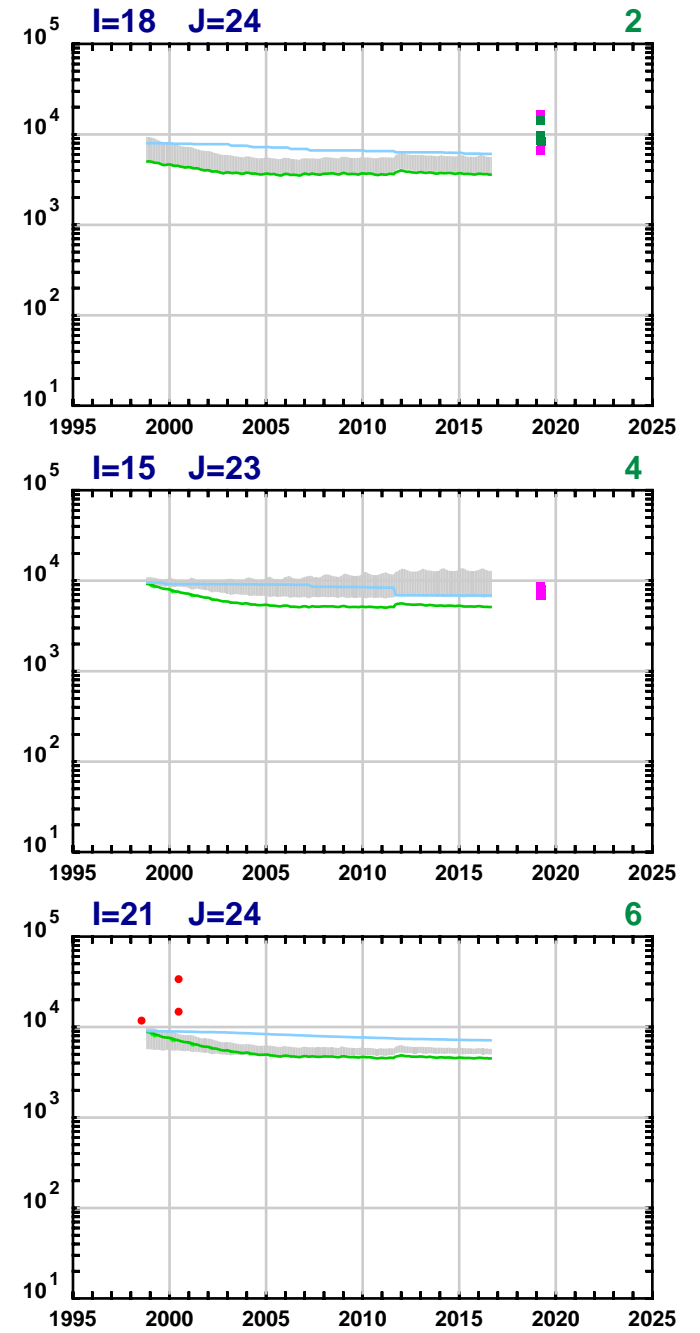
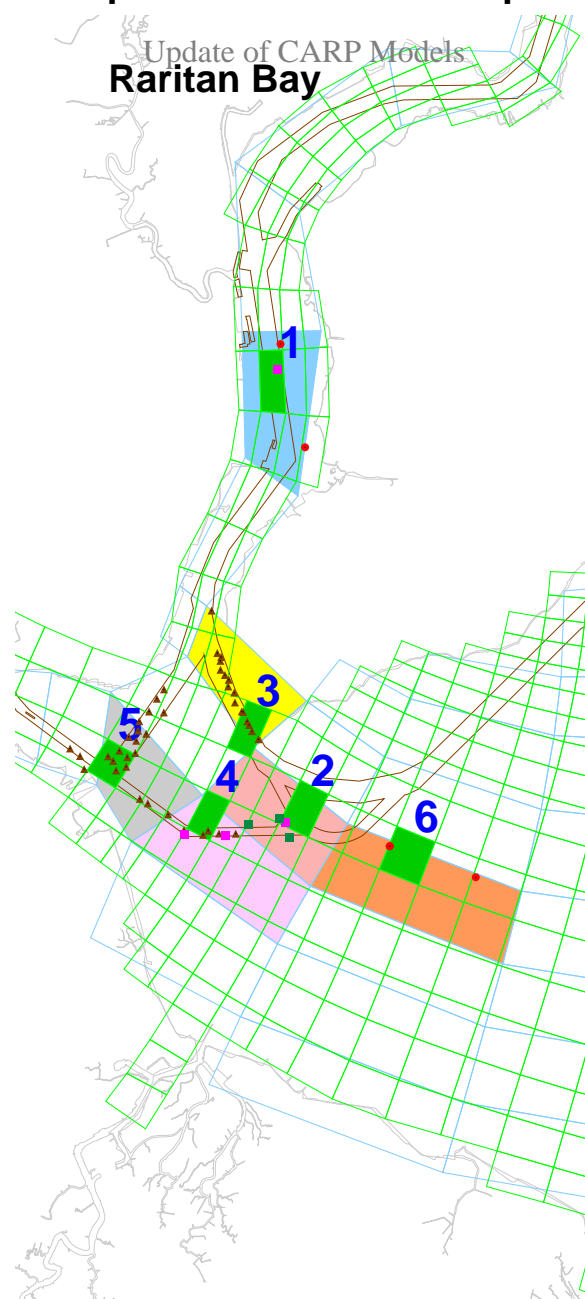
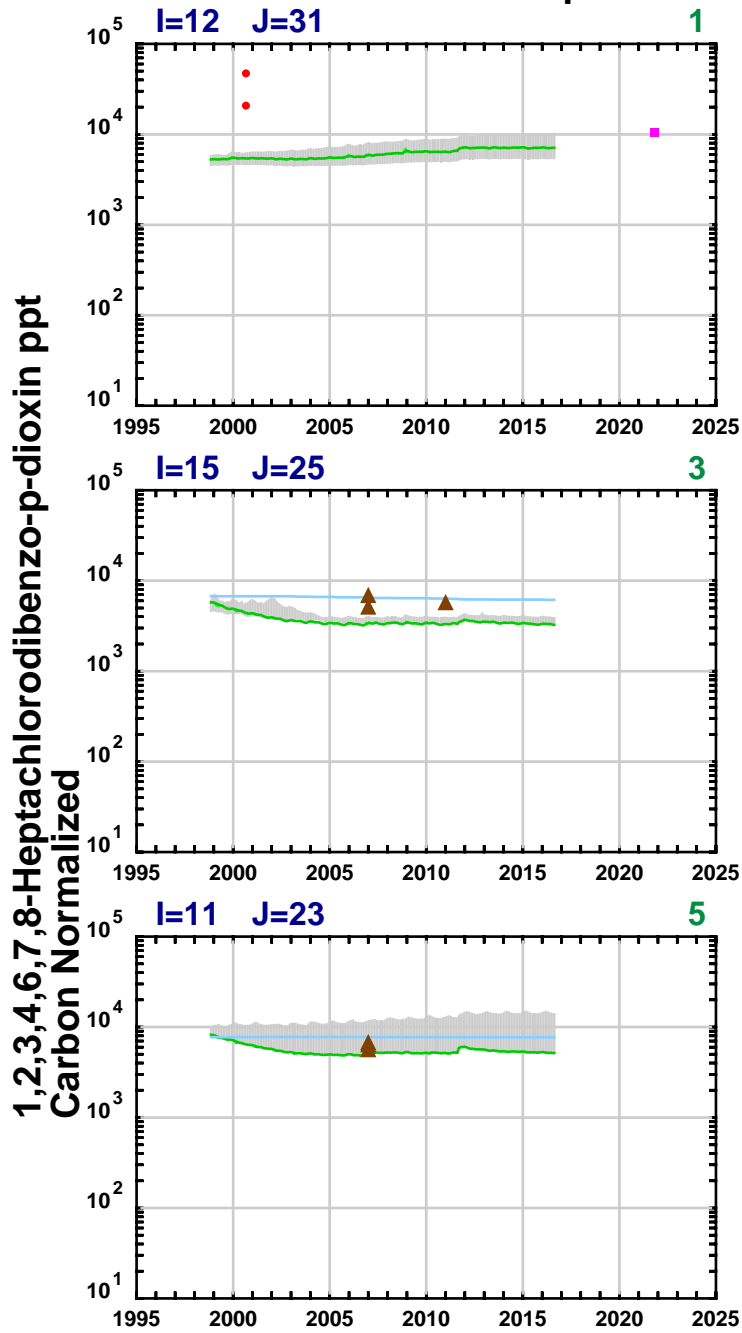


RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



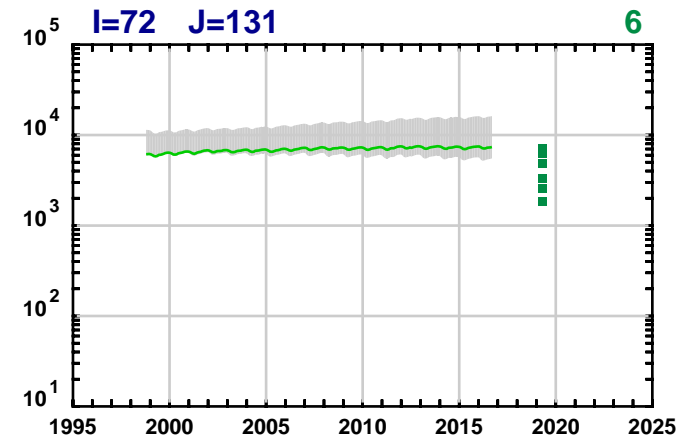
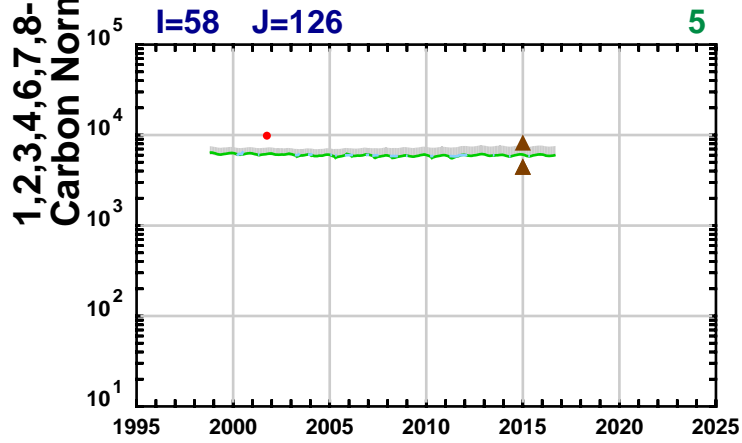
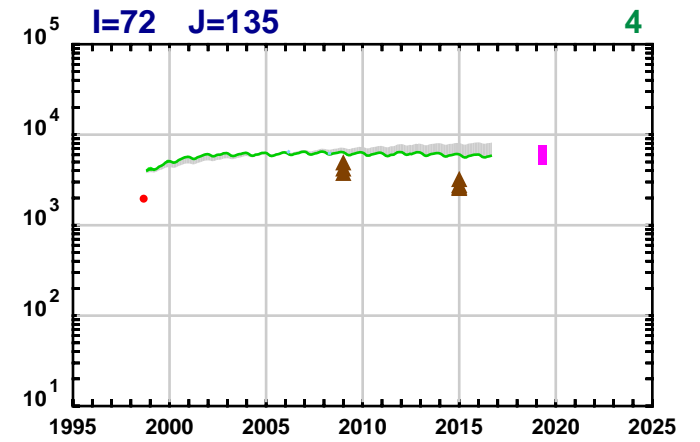
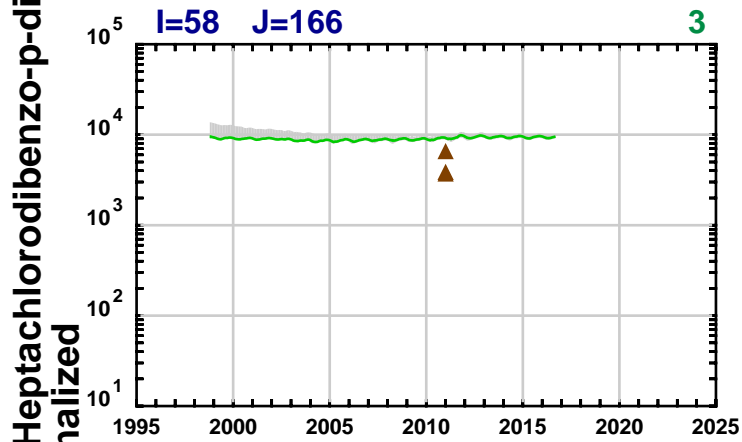
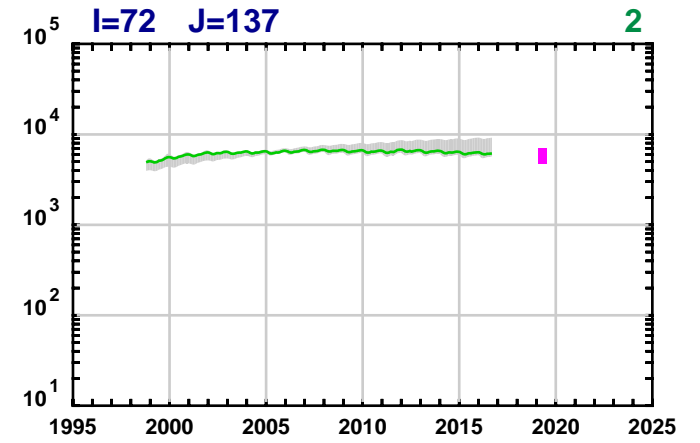
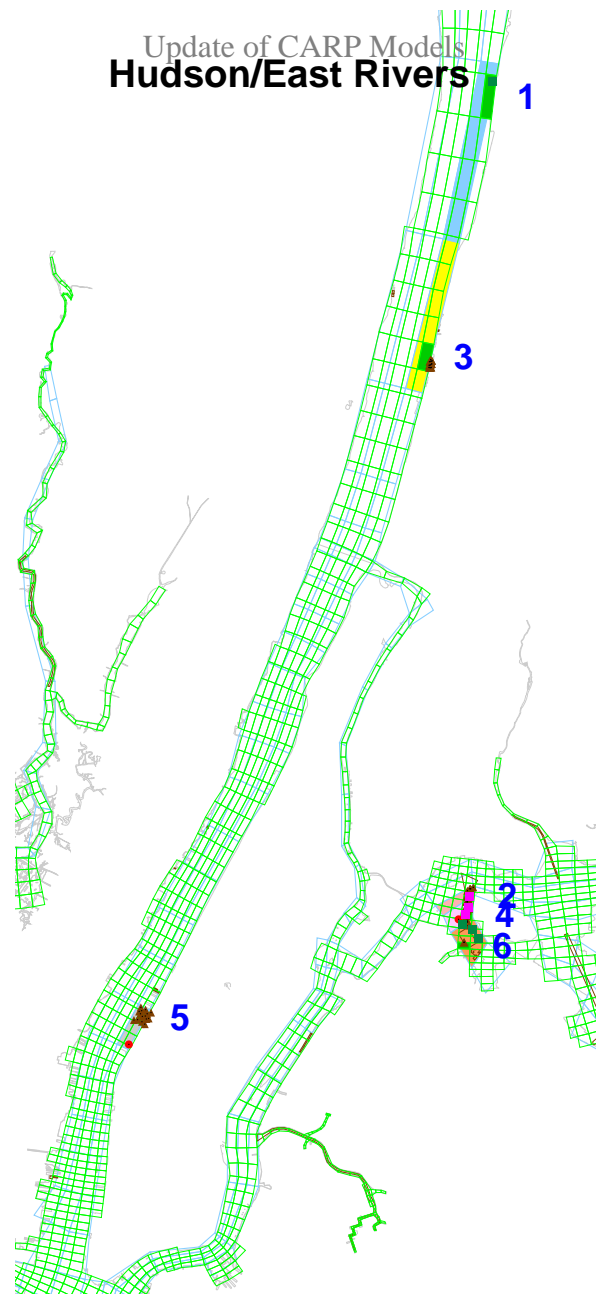
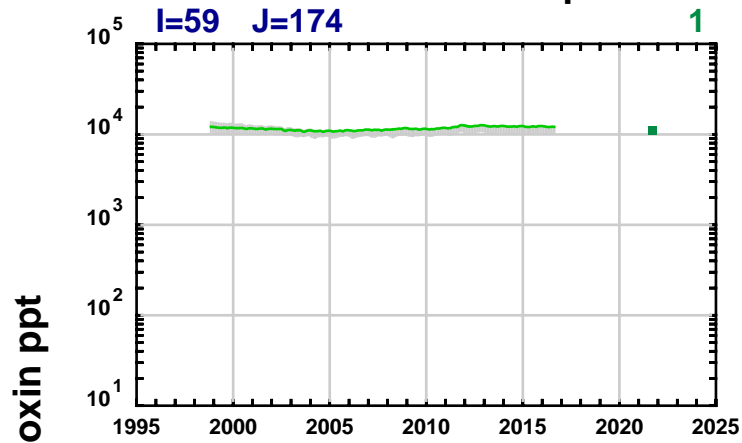
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

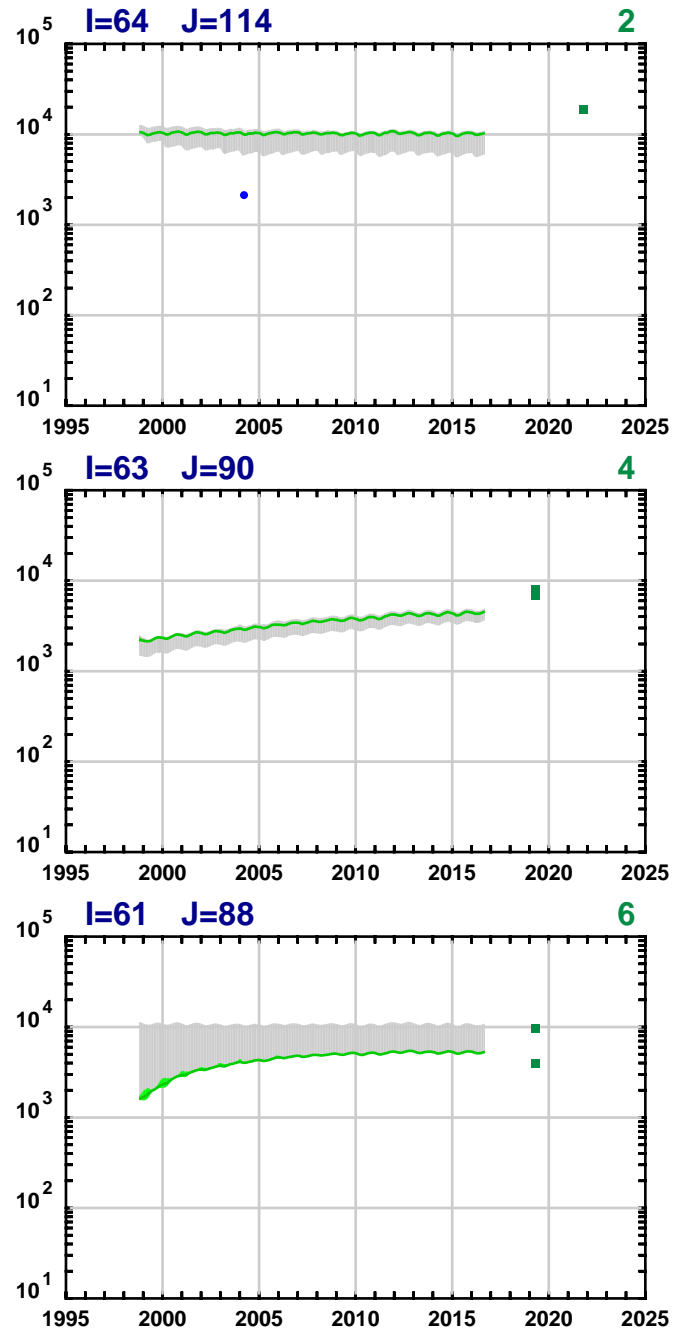
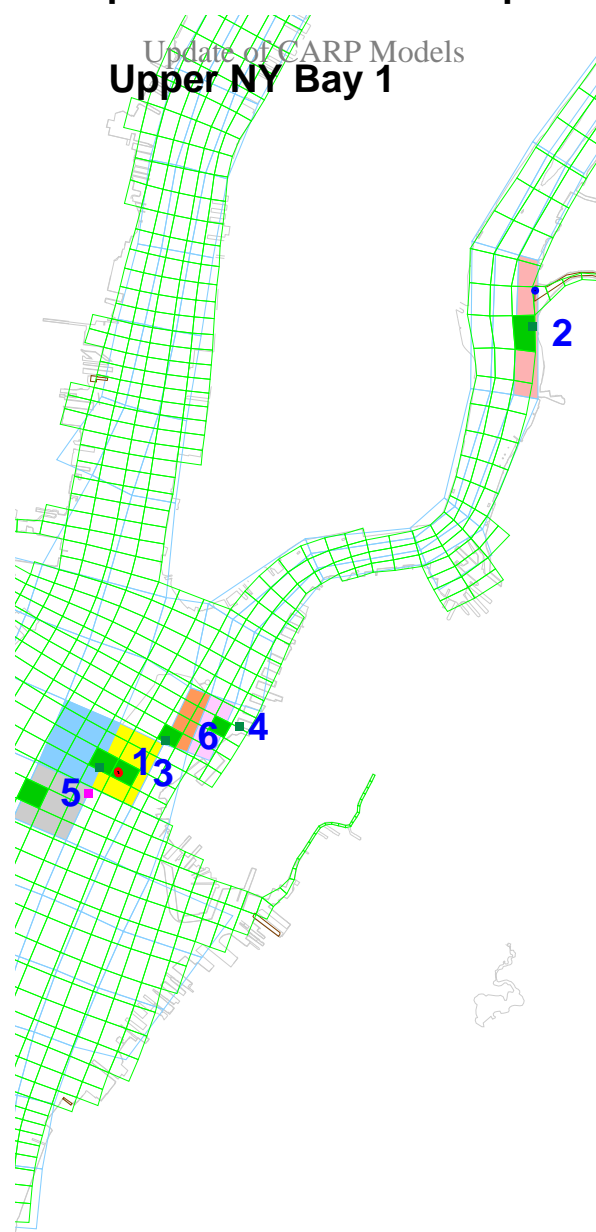
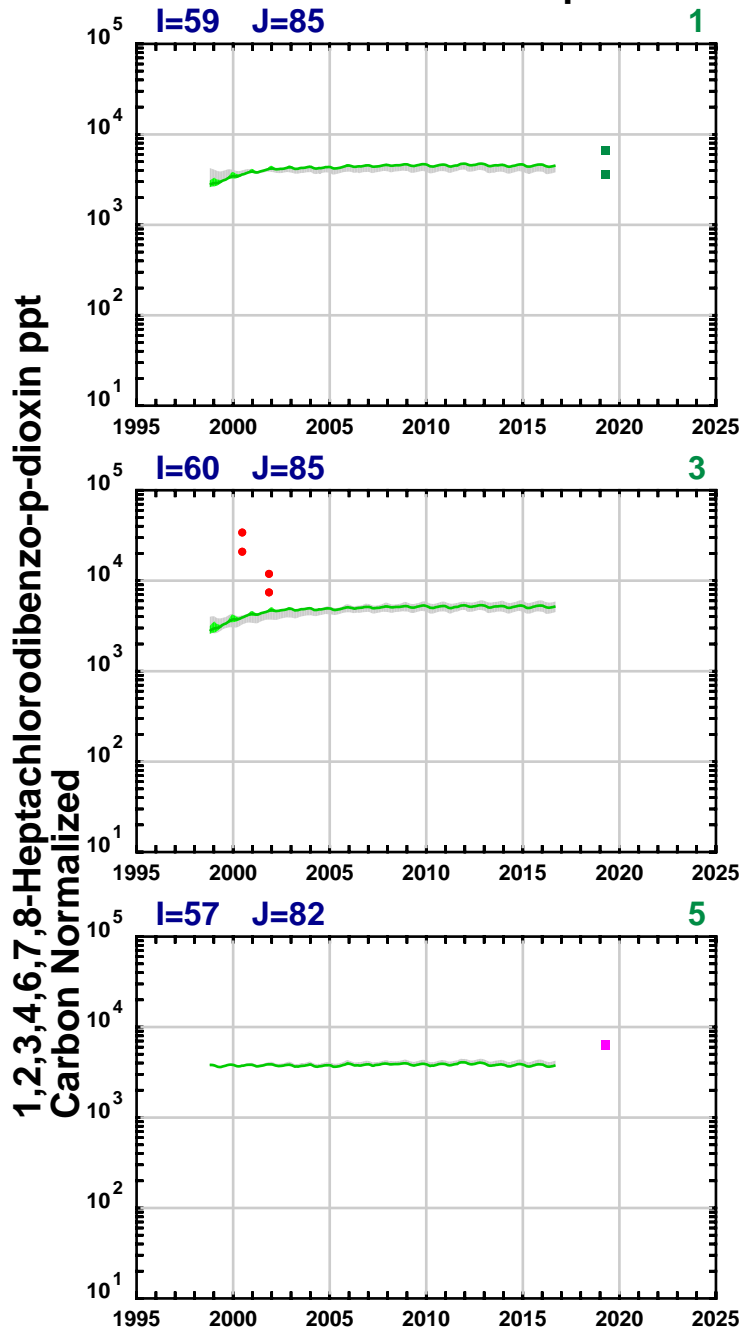


RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

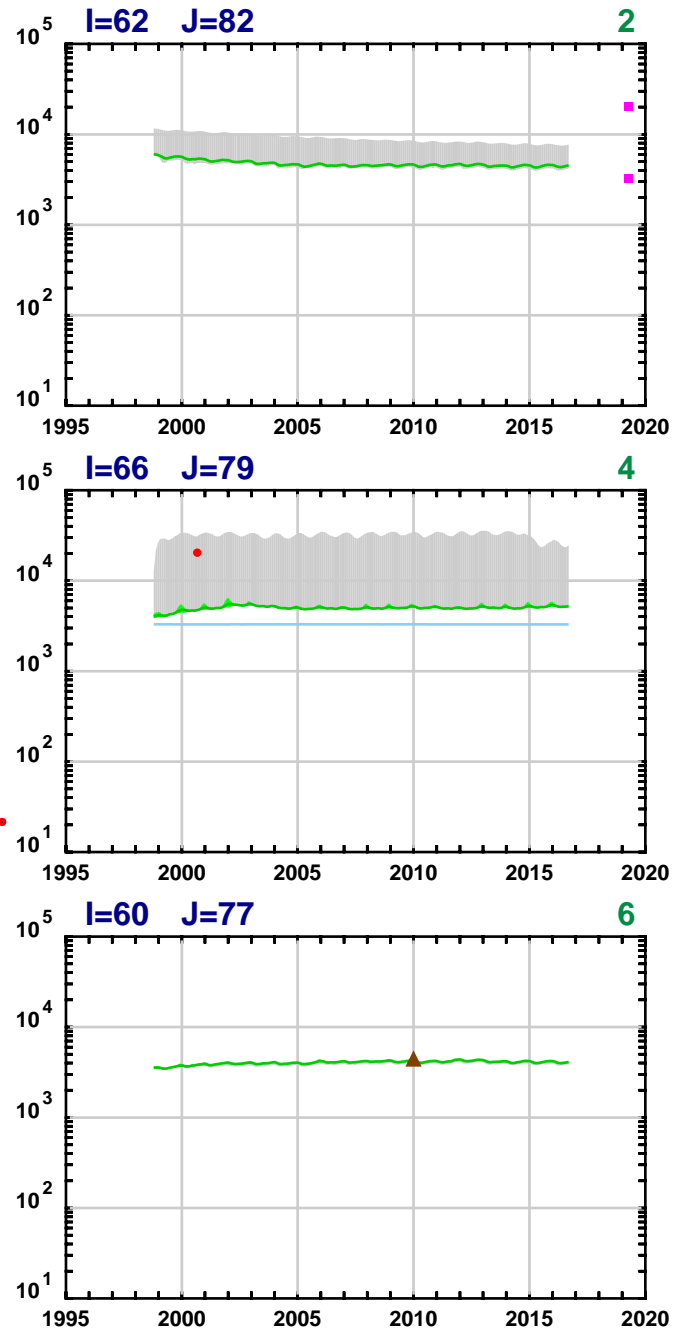
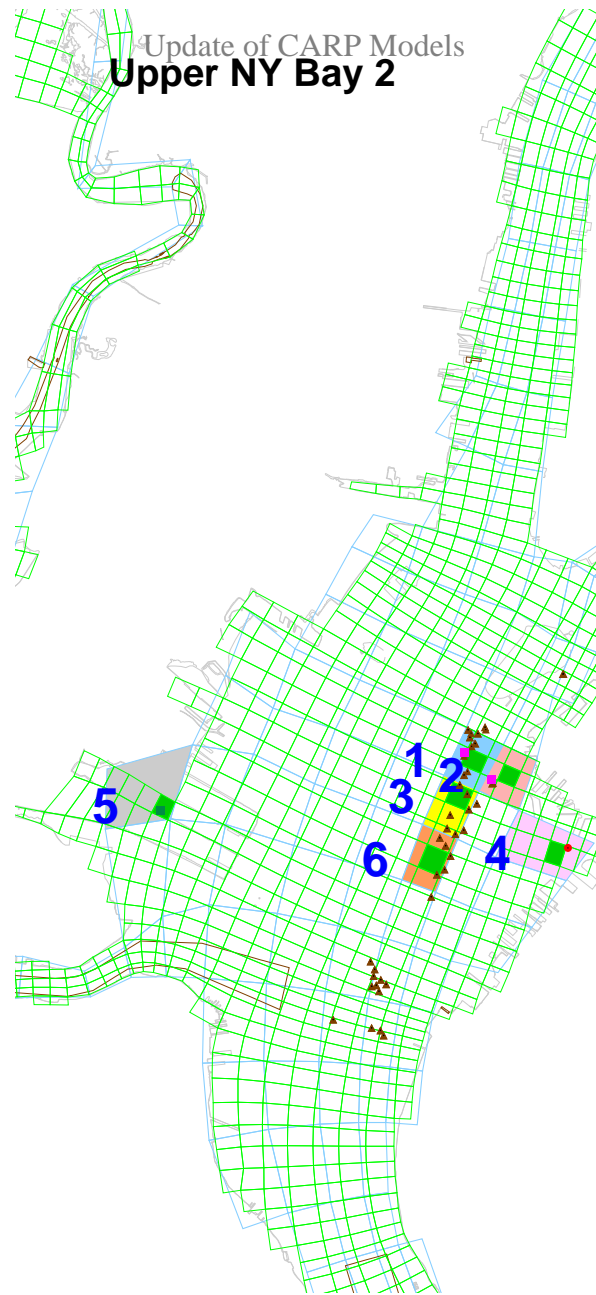
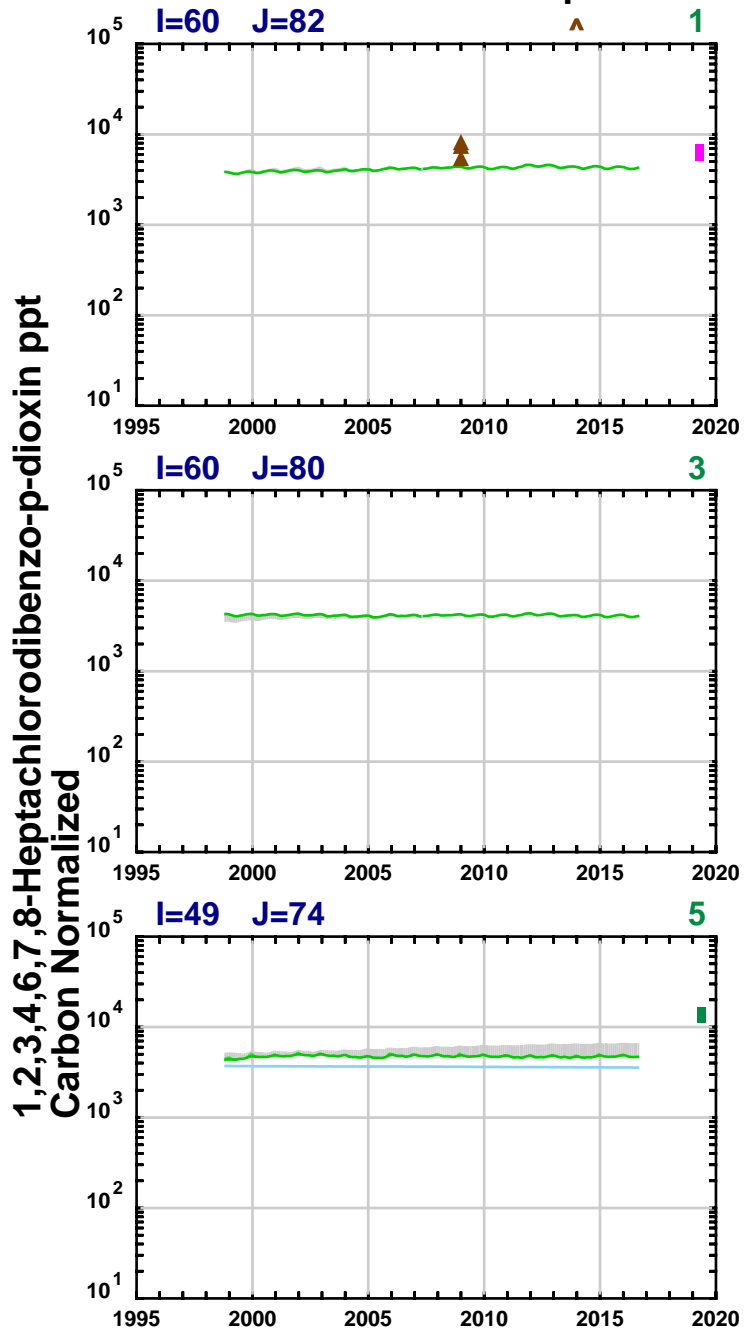


RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

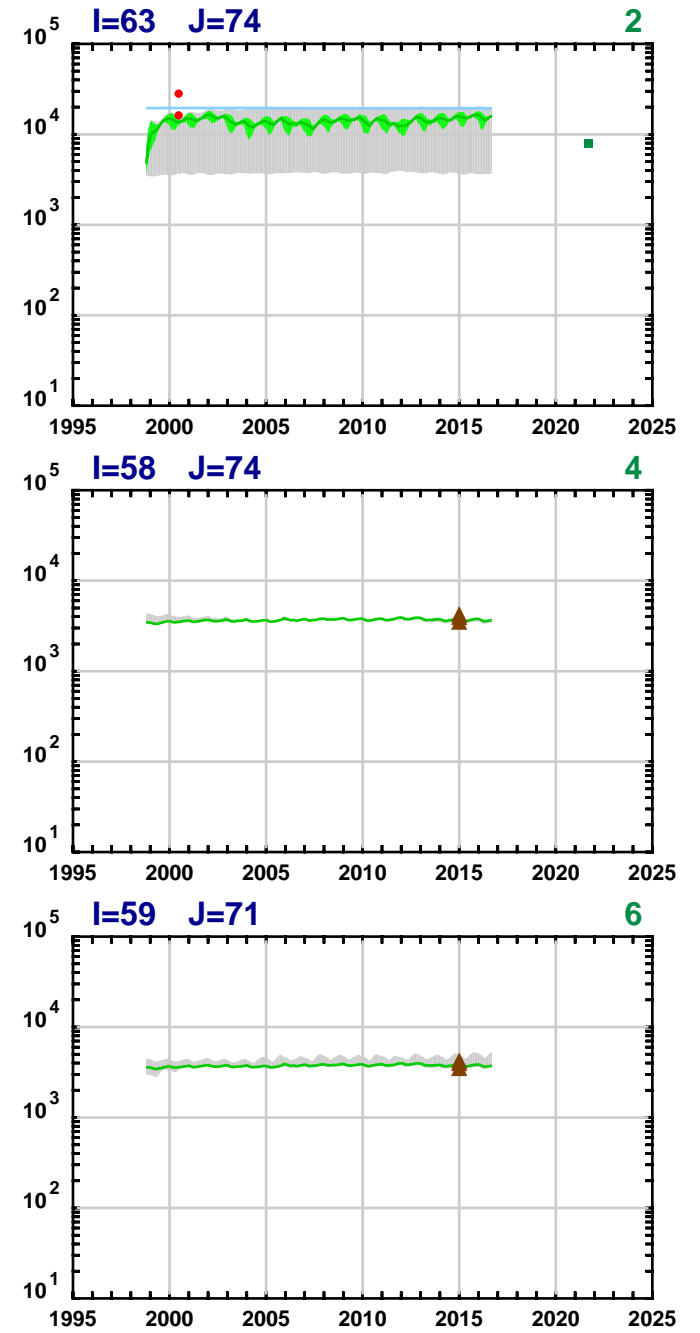
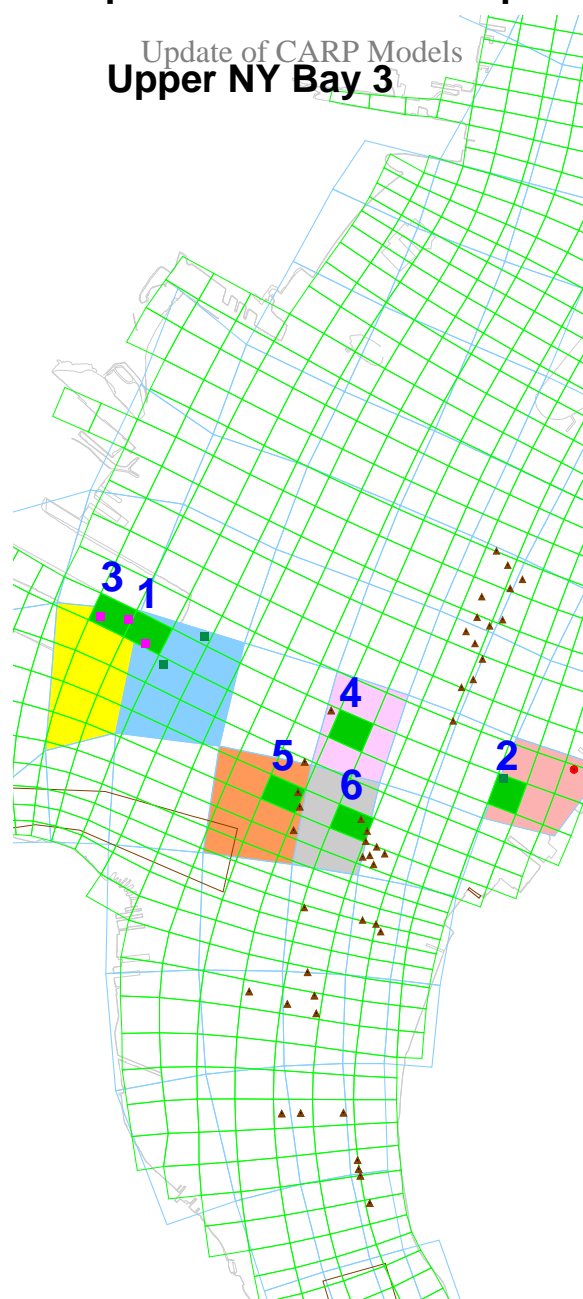
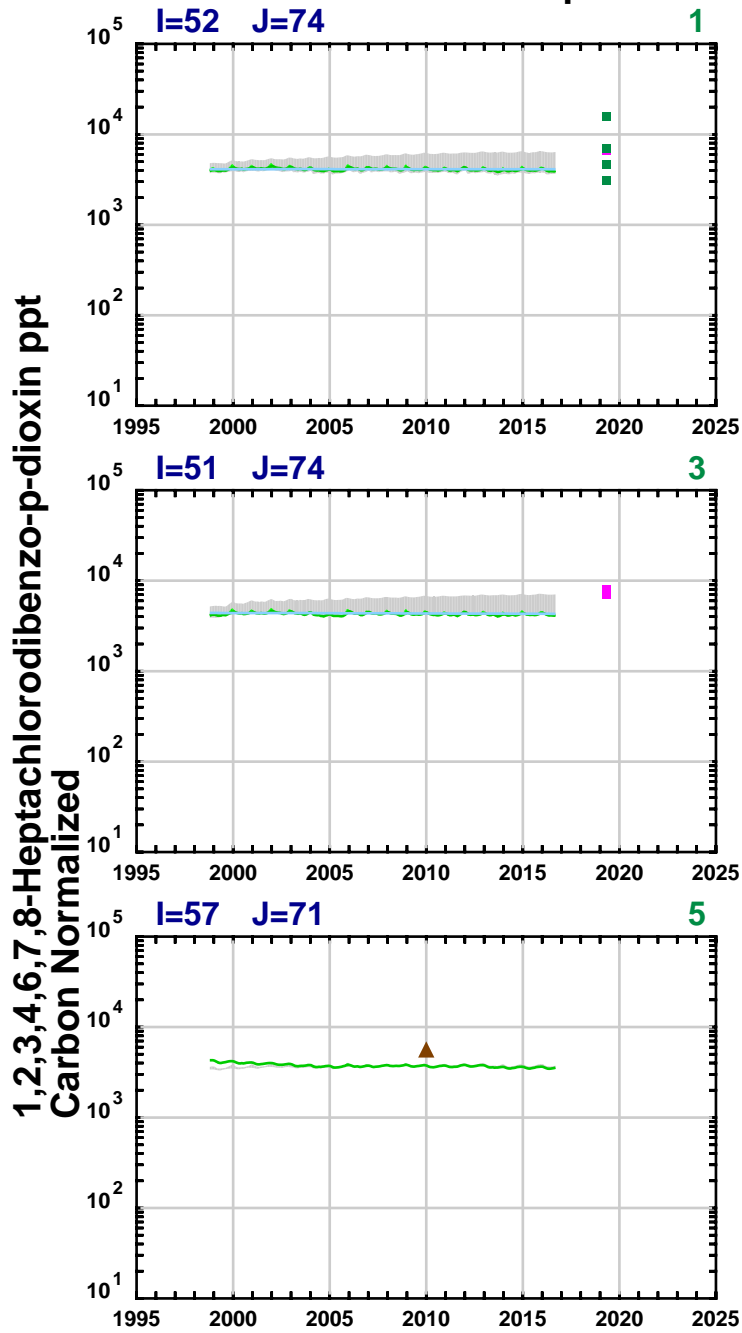


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data ● Off-channel data ▲ Dredge data**  
**■ CARP2 In-channel ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

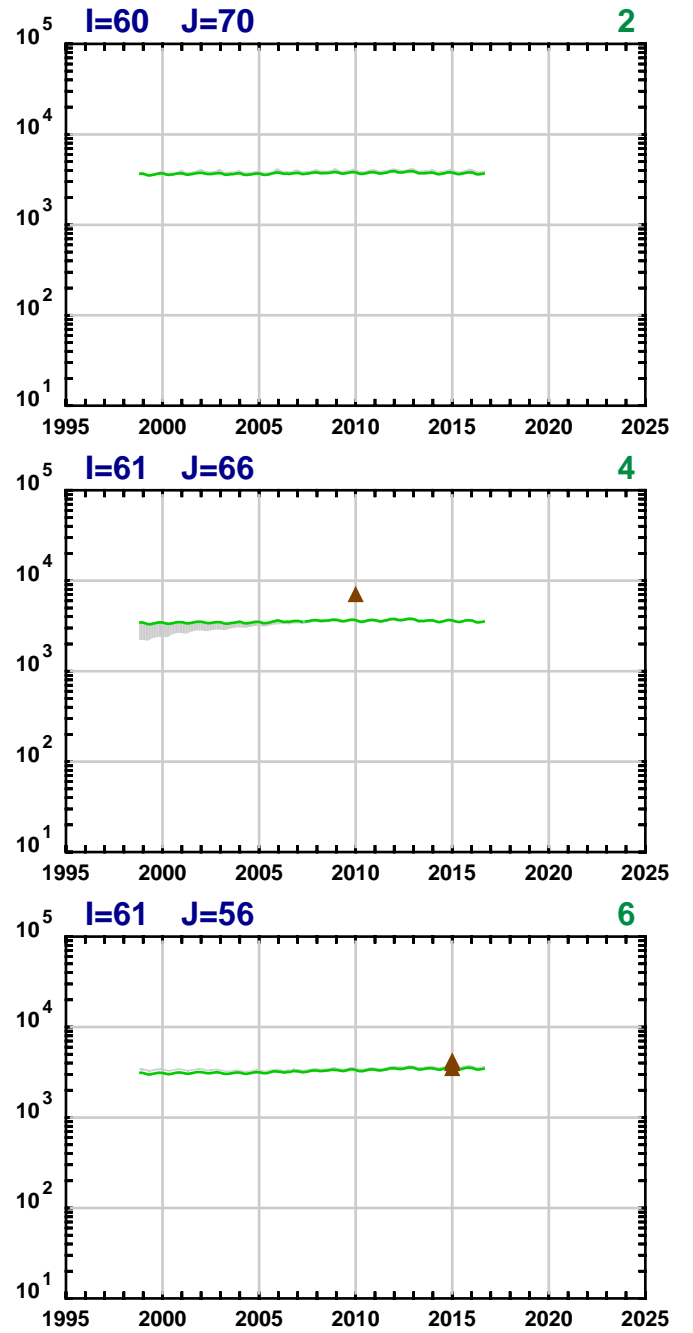
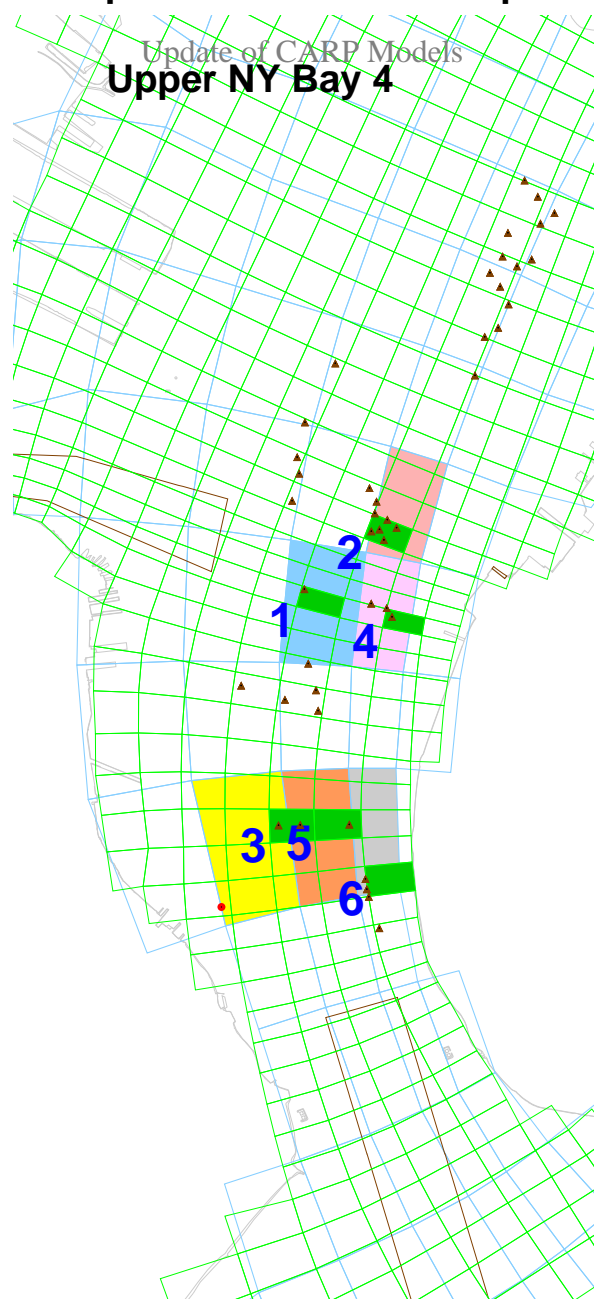
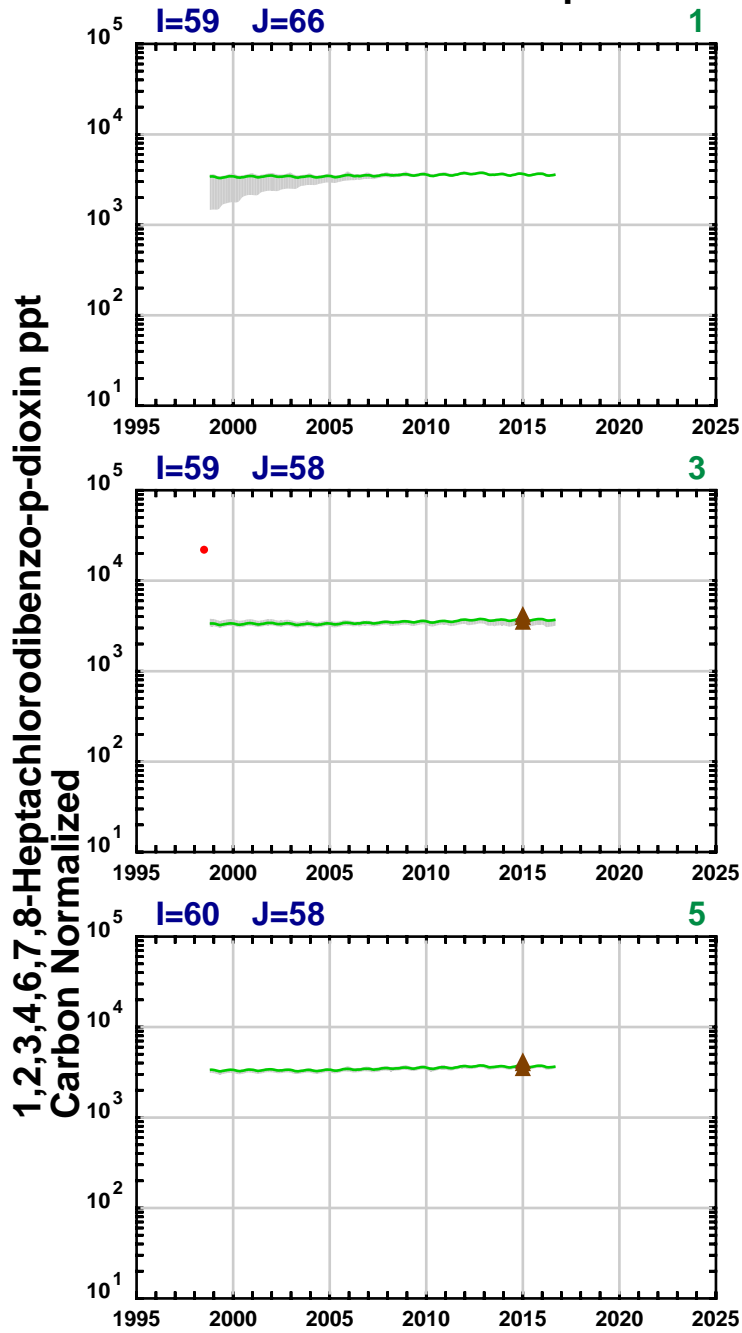


RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



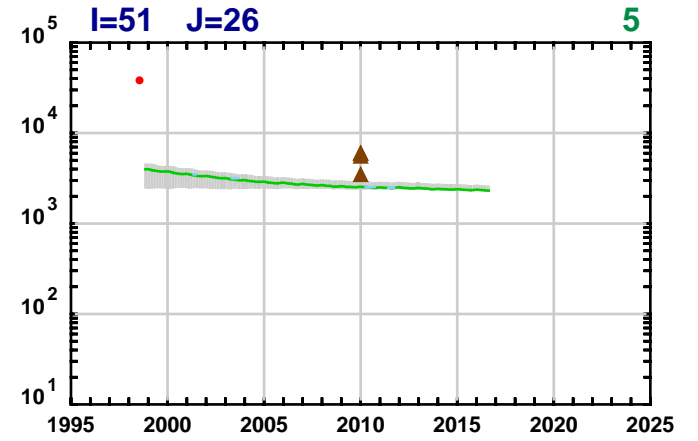
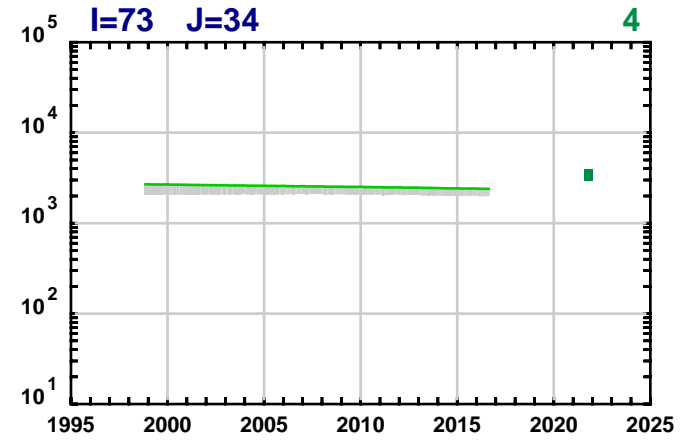
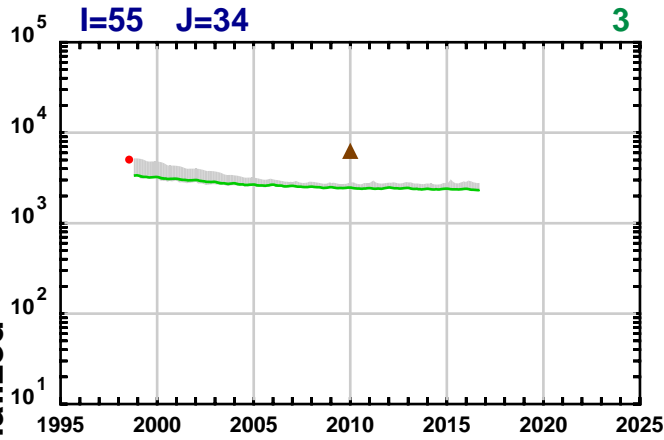
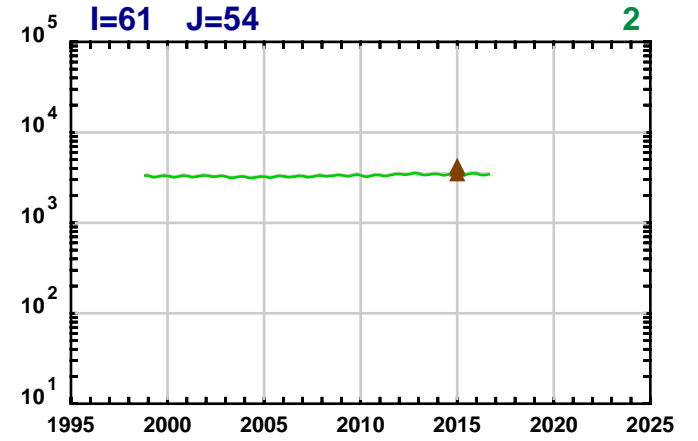
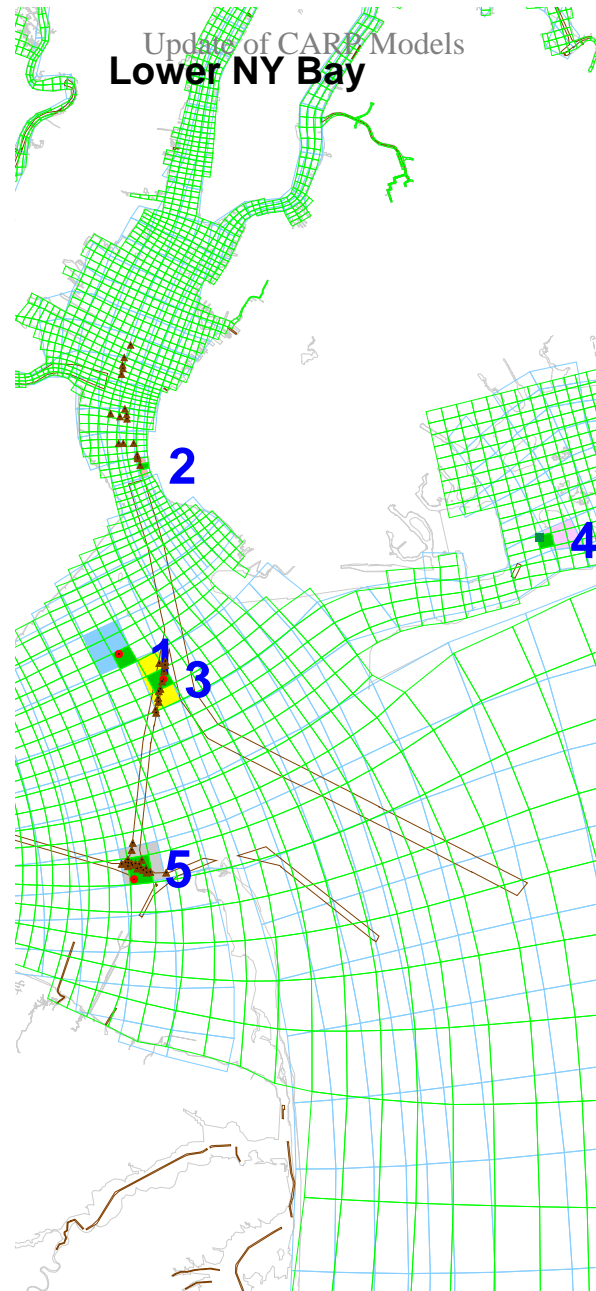
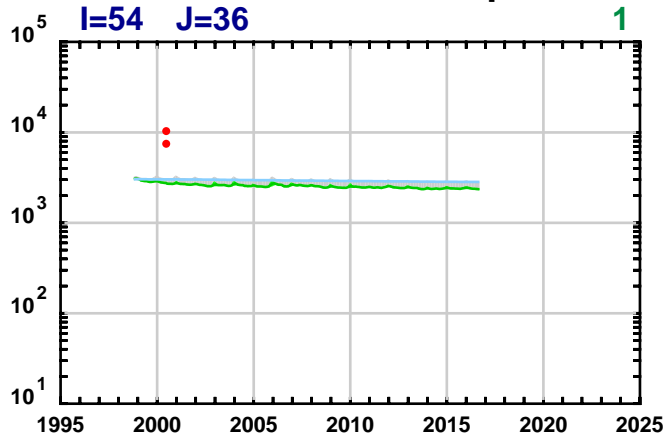
RUN18\_S3

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin ppt  
Carbon Normalized



RUN18\_S3

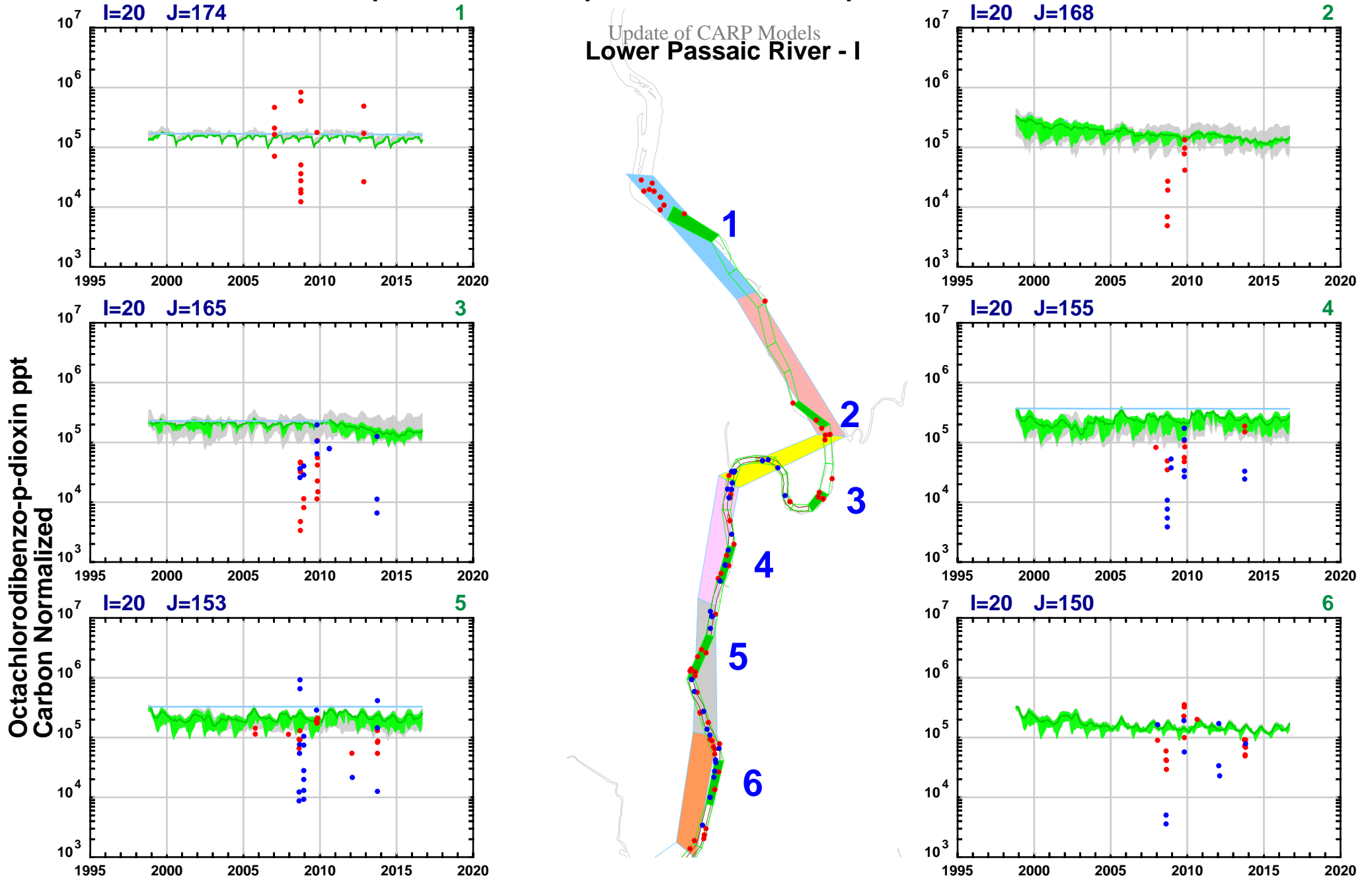
Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

## Update of CARP Models Lower Passaic River - I



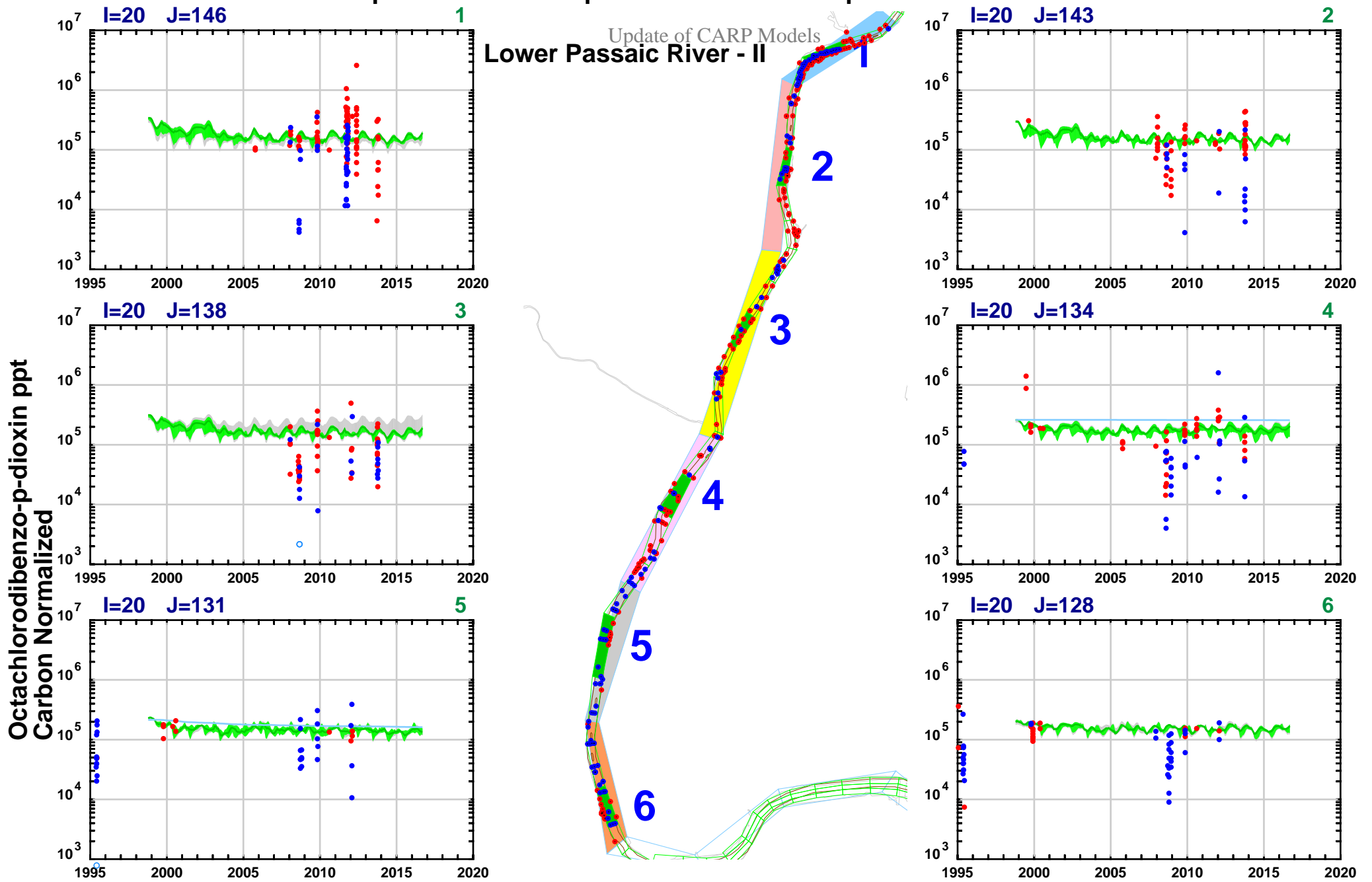
RUN18\_S3

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

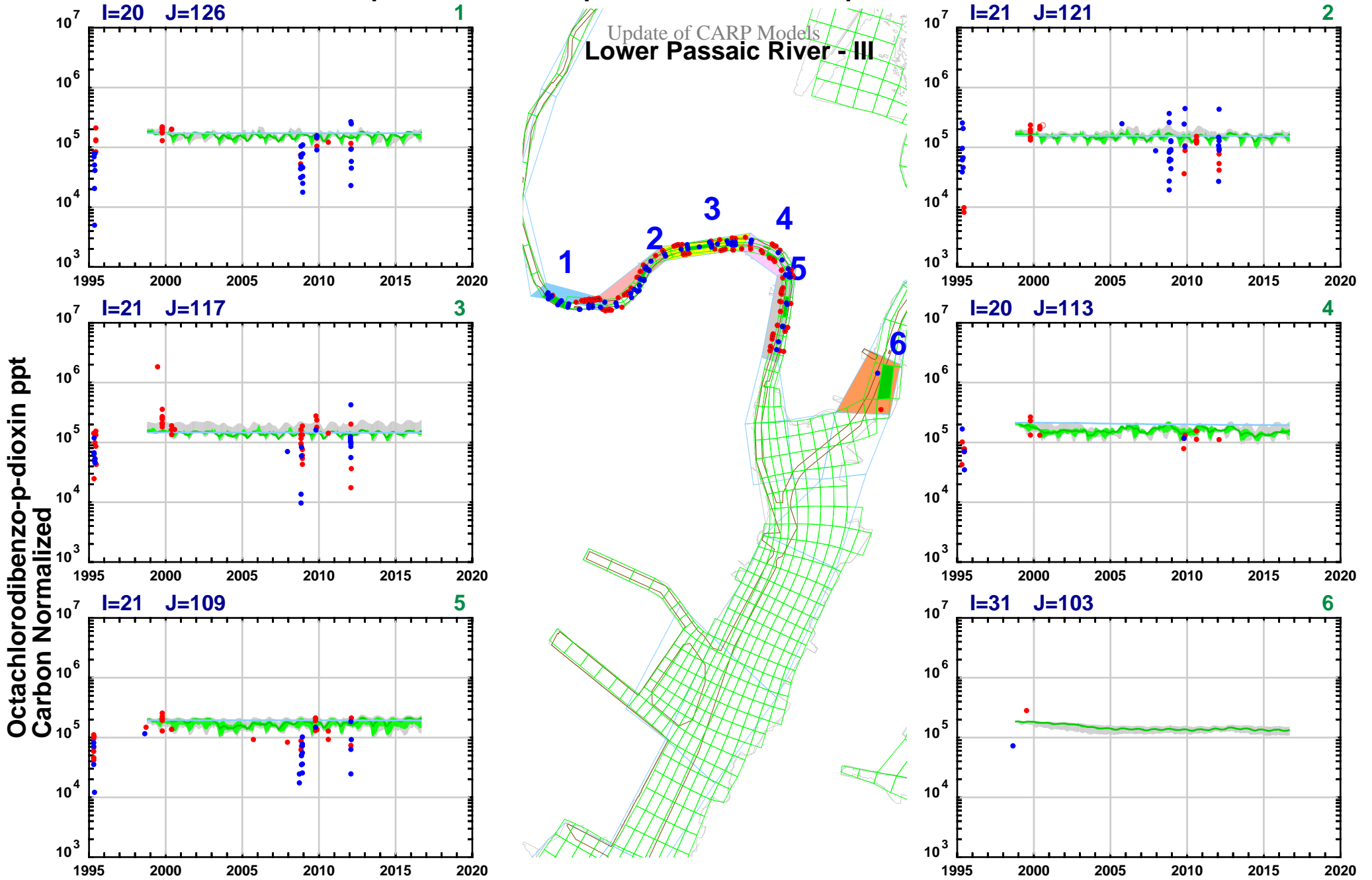


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

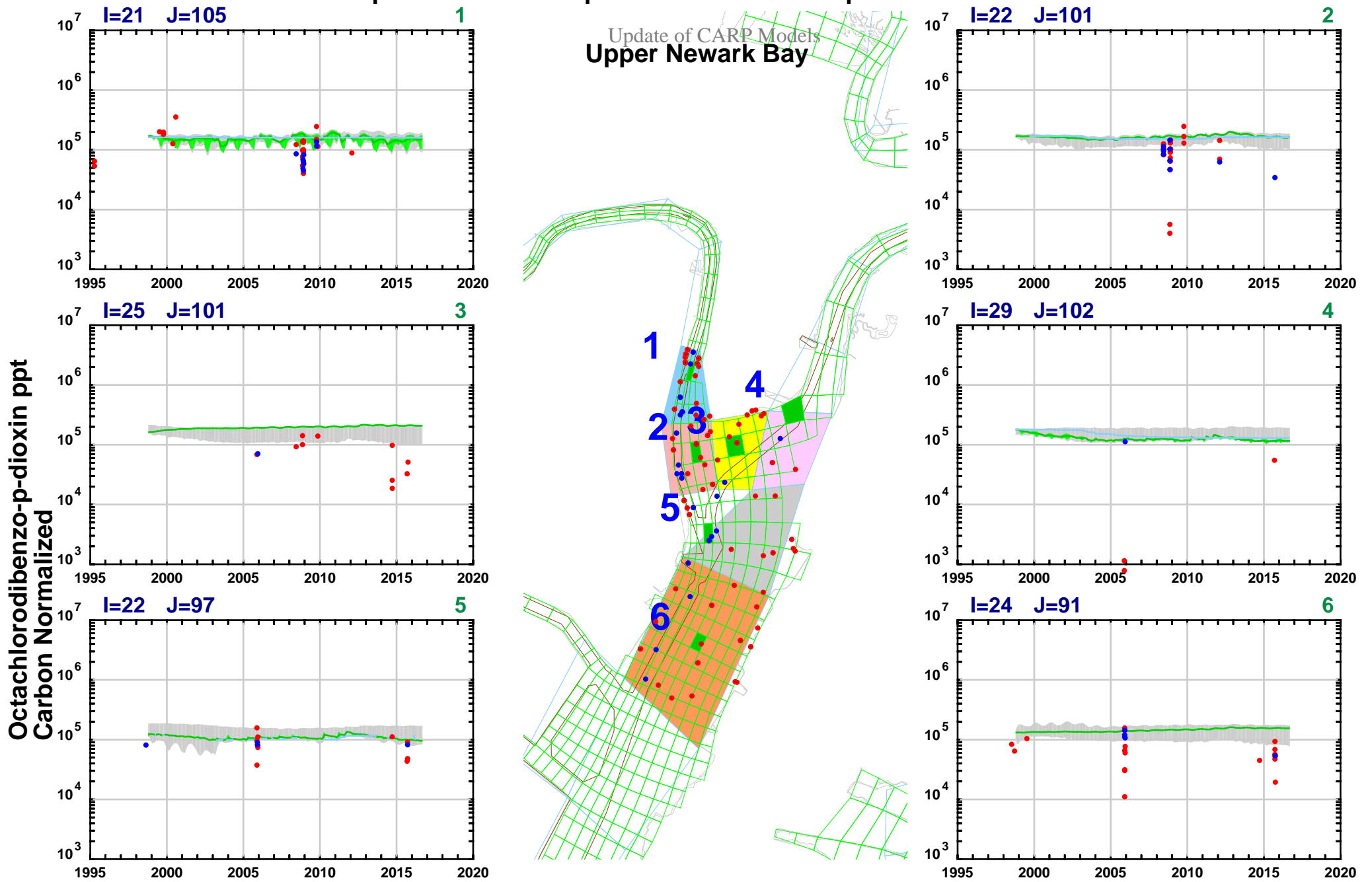


RUN18\_S3

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



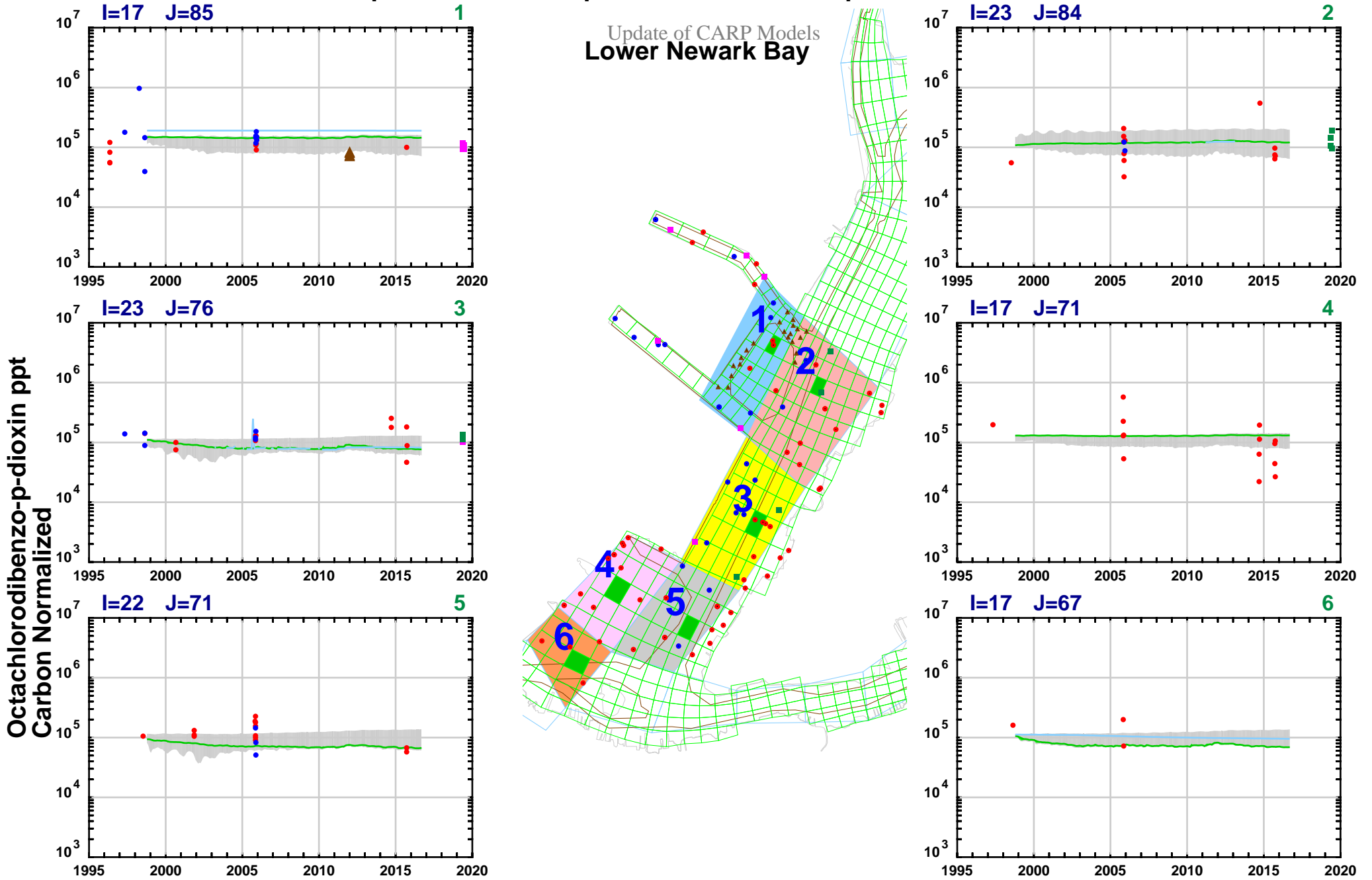
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Lower Newark Bay



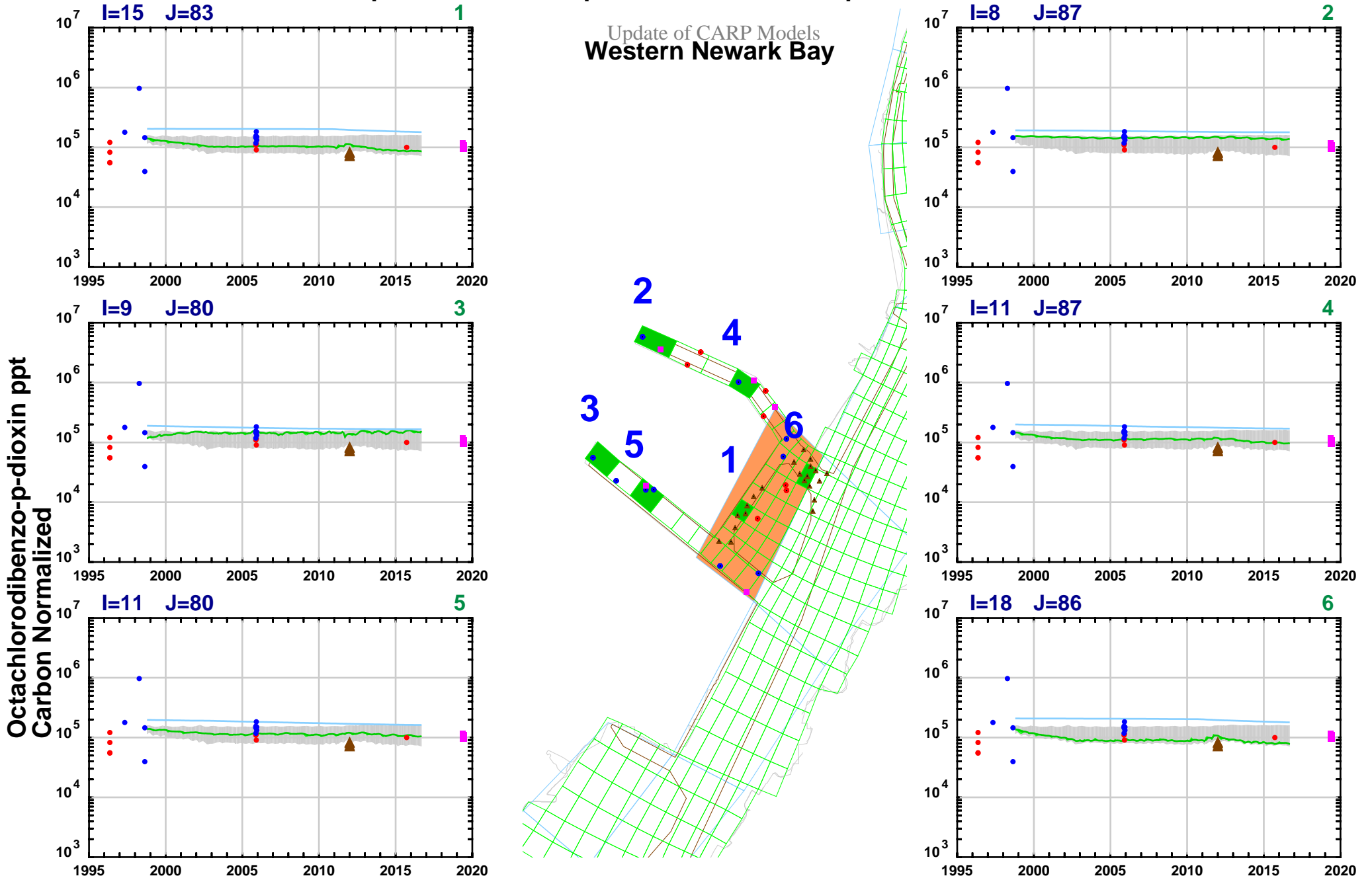
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay



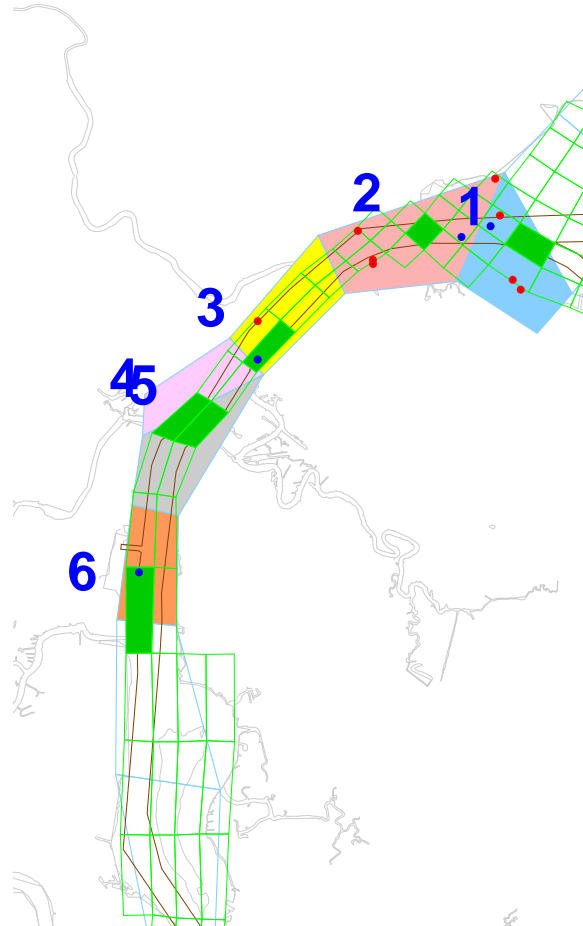
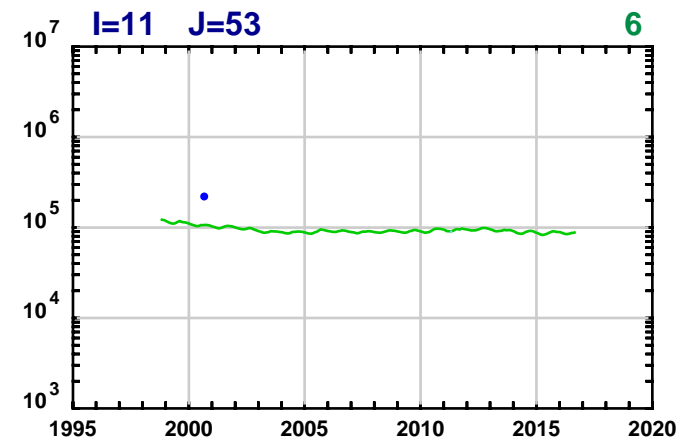
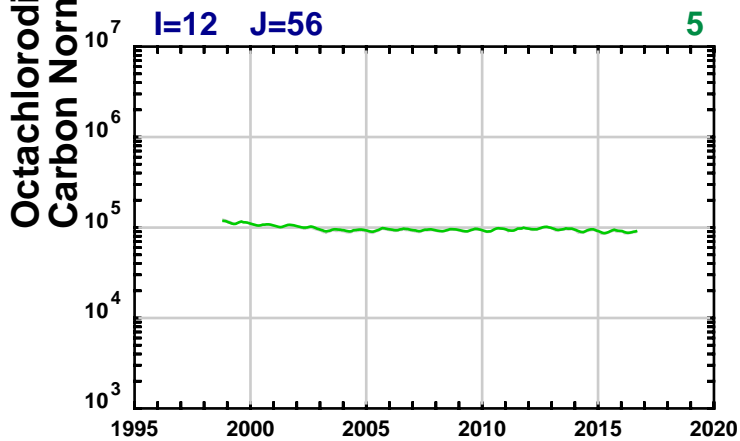
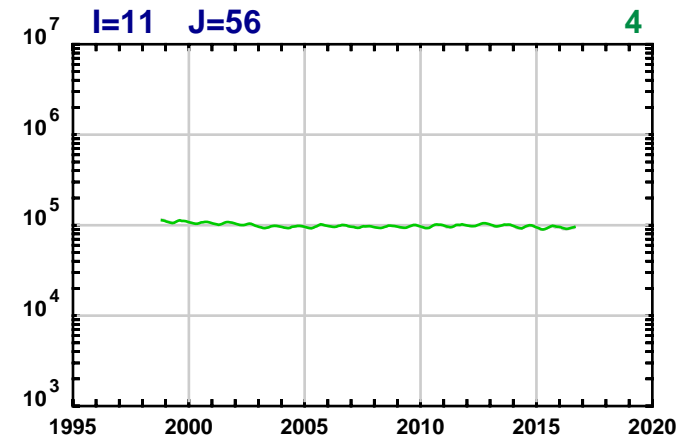
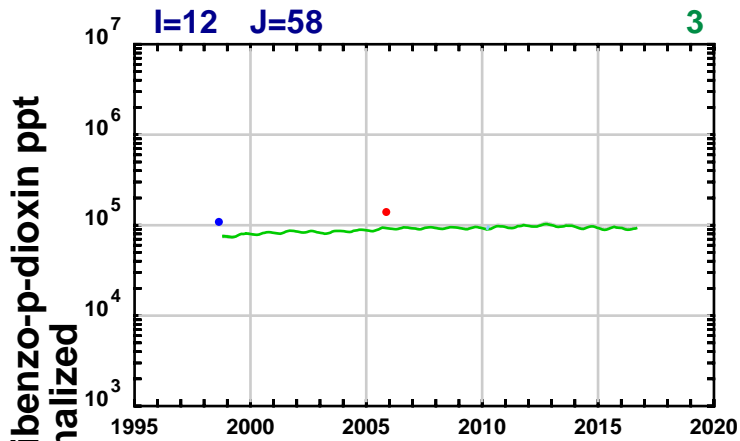
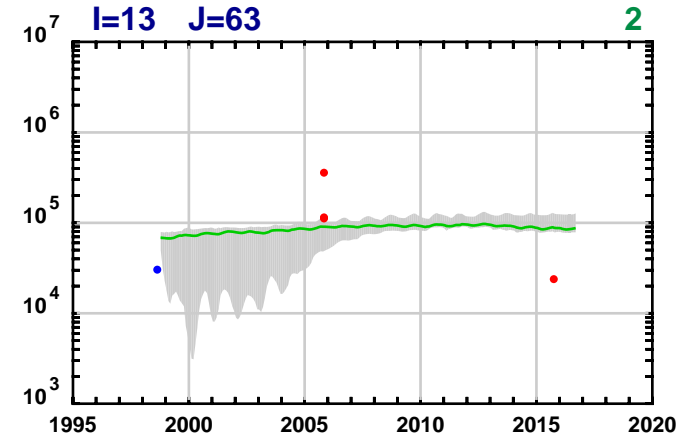
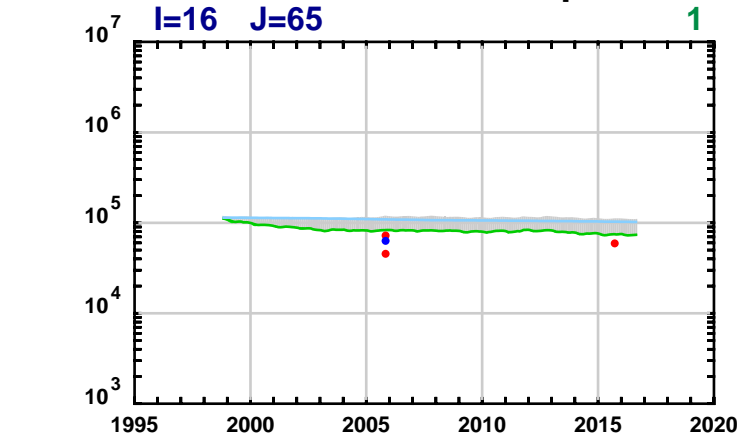
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

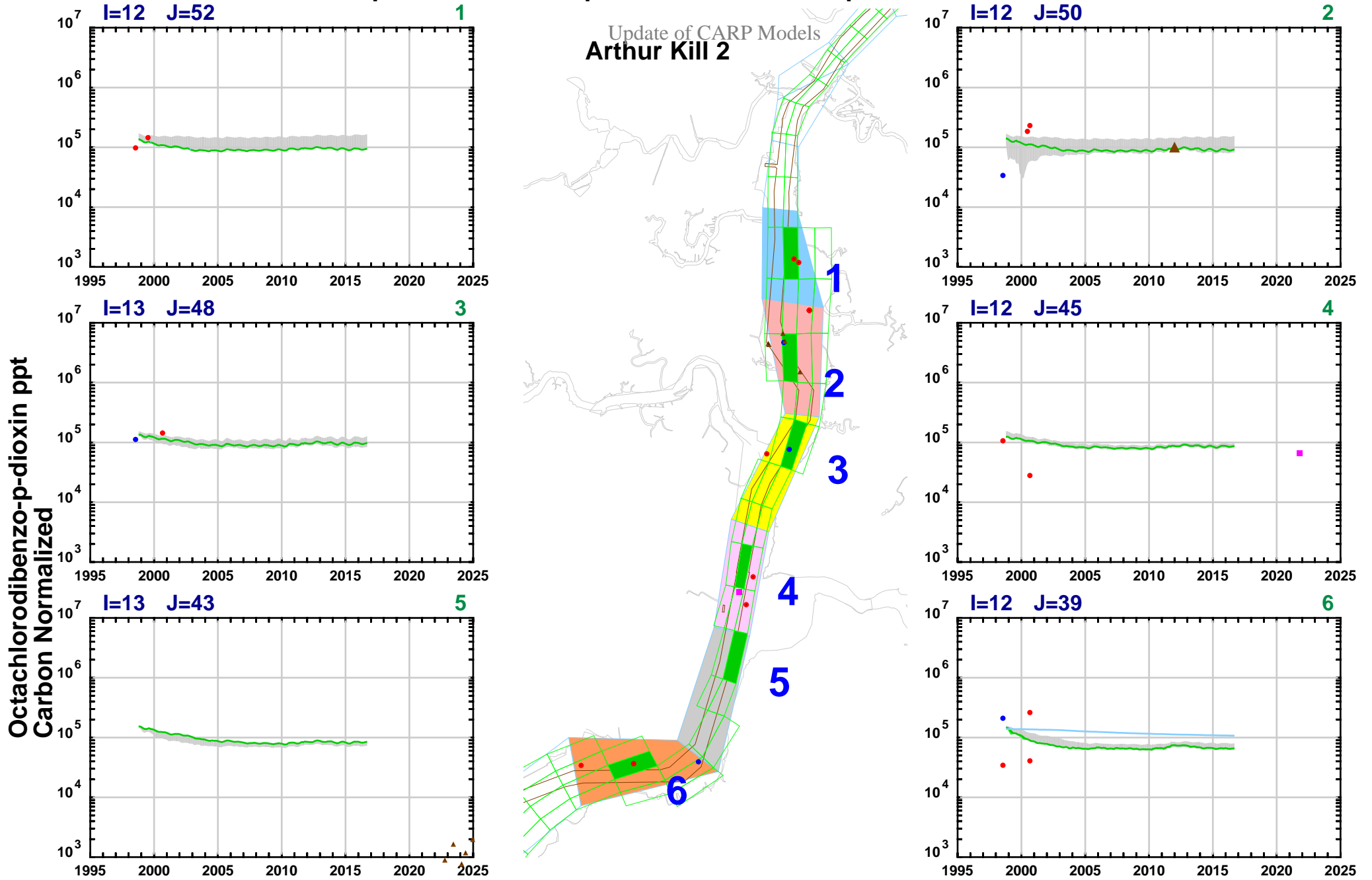


RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



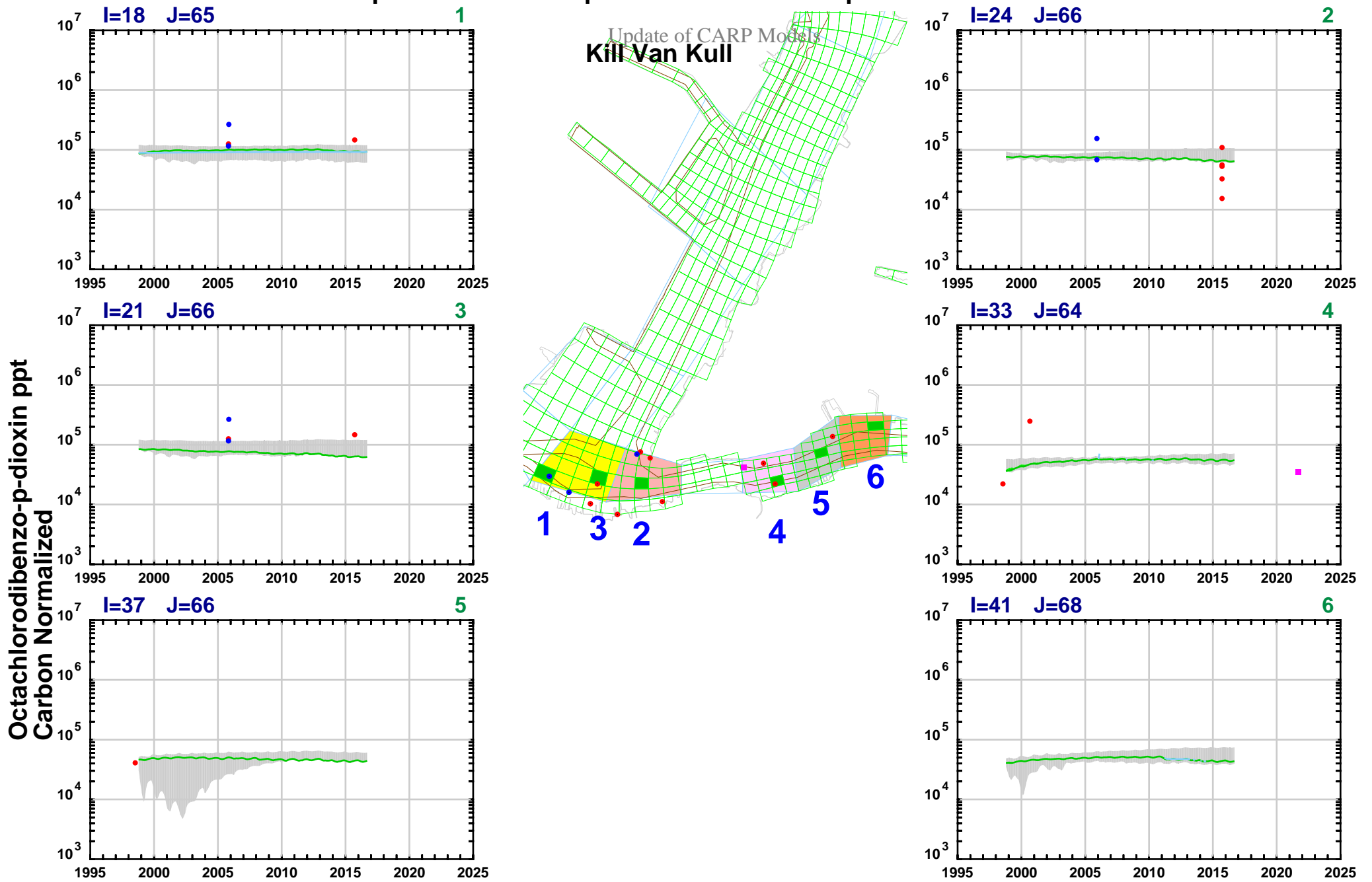
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

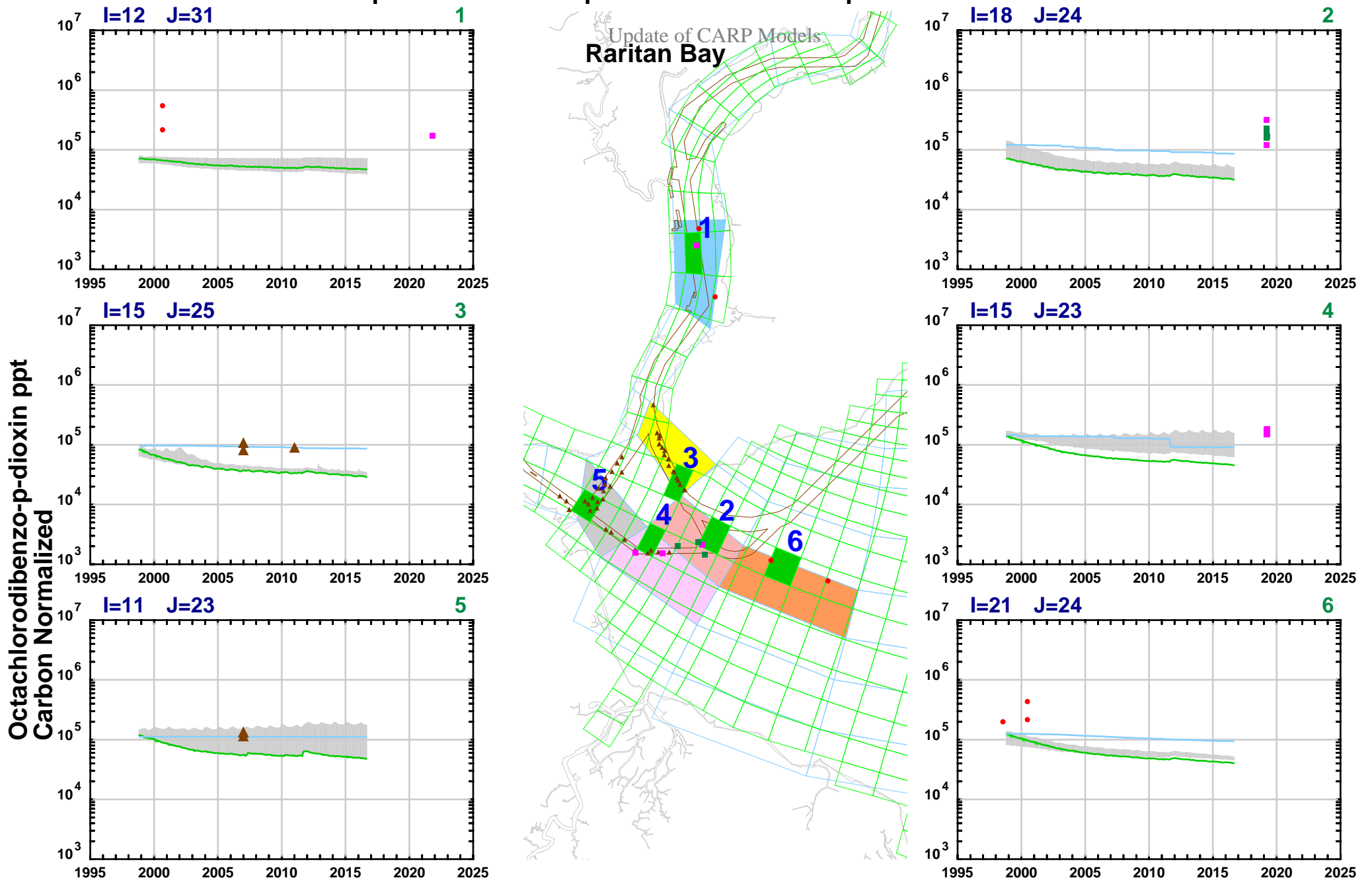


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data ● Off-channel data ▲ Dredge data**  
**■ CARP2 In-channel ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

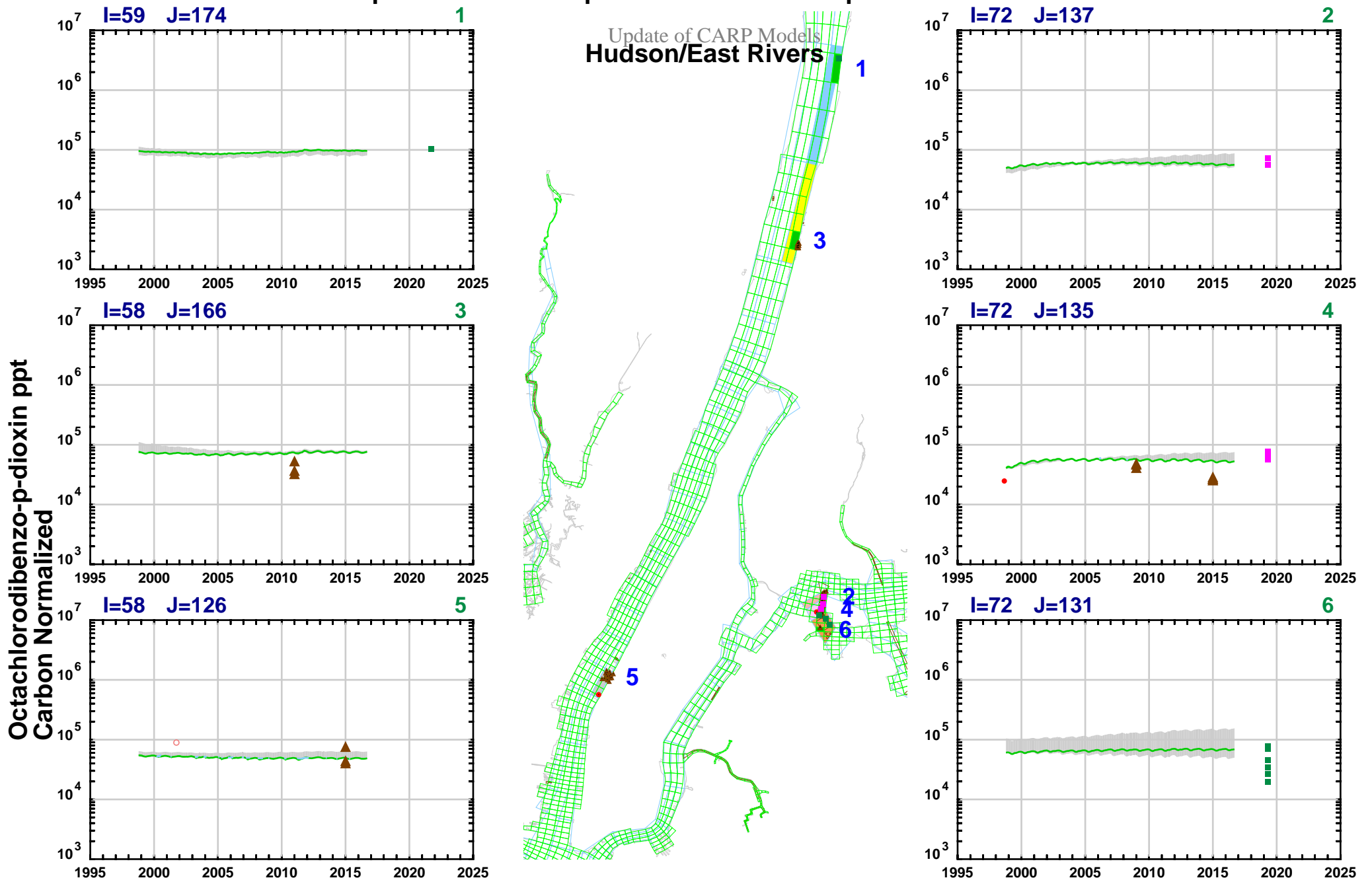


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

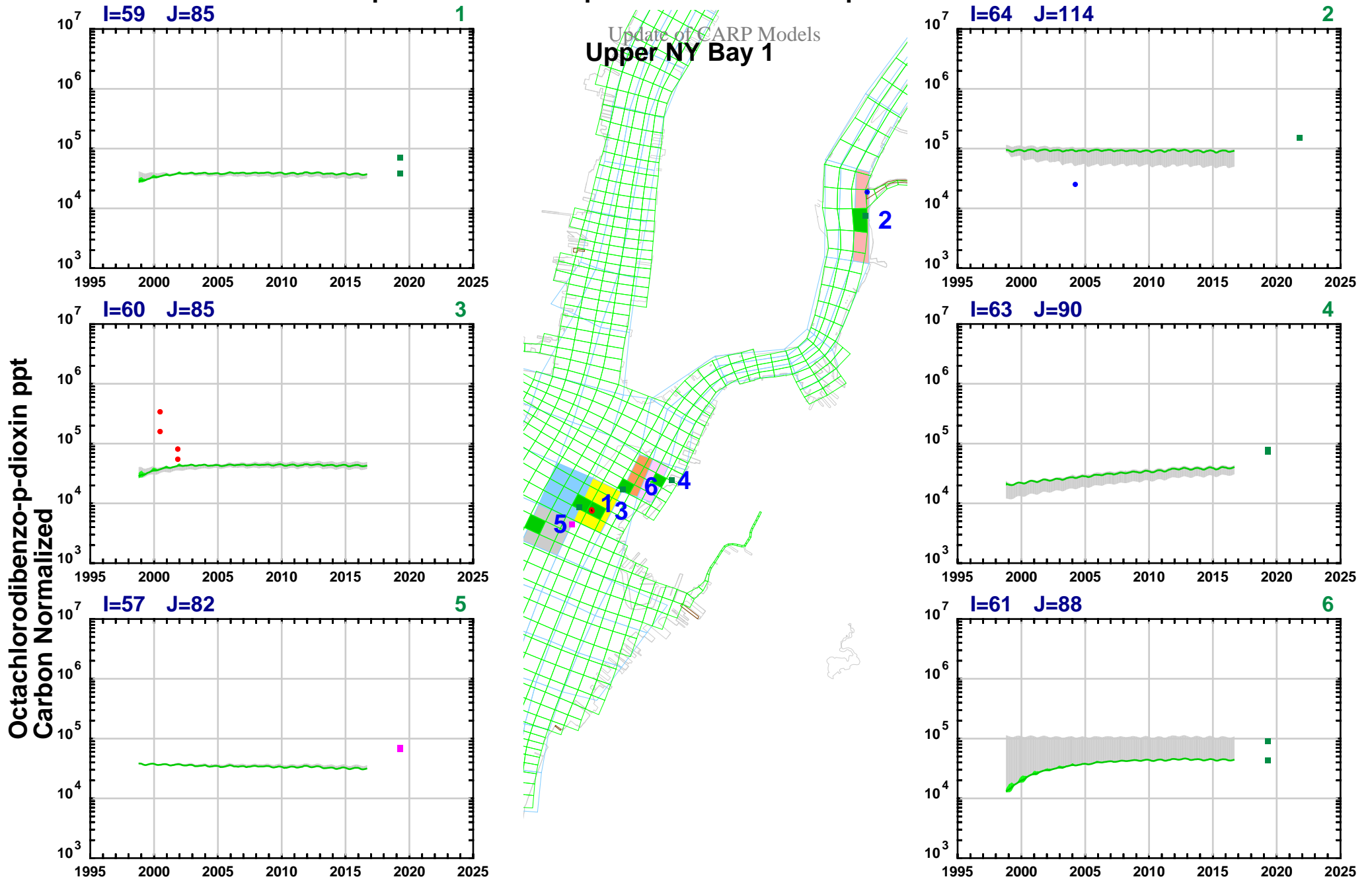


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data**   **● Off-channel data**   **▲ Dredge data**  
**■ CARP2 In-channel**   **■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

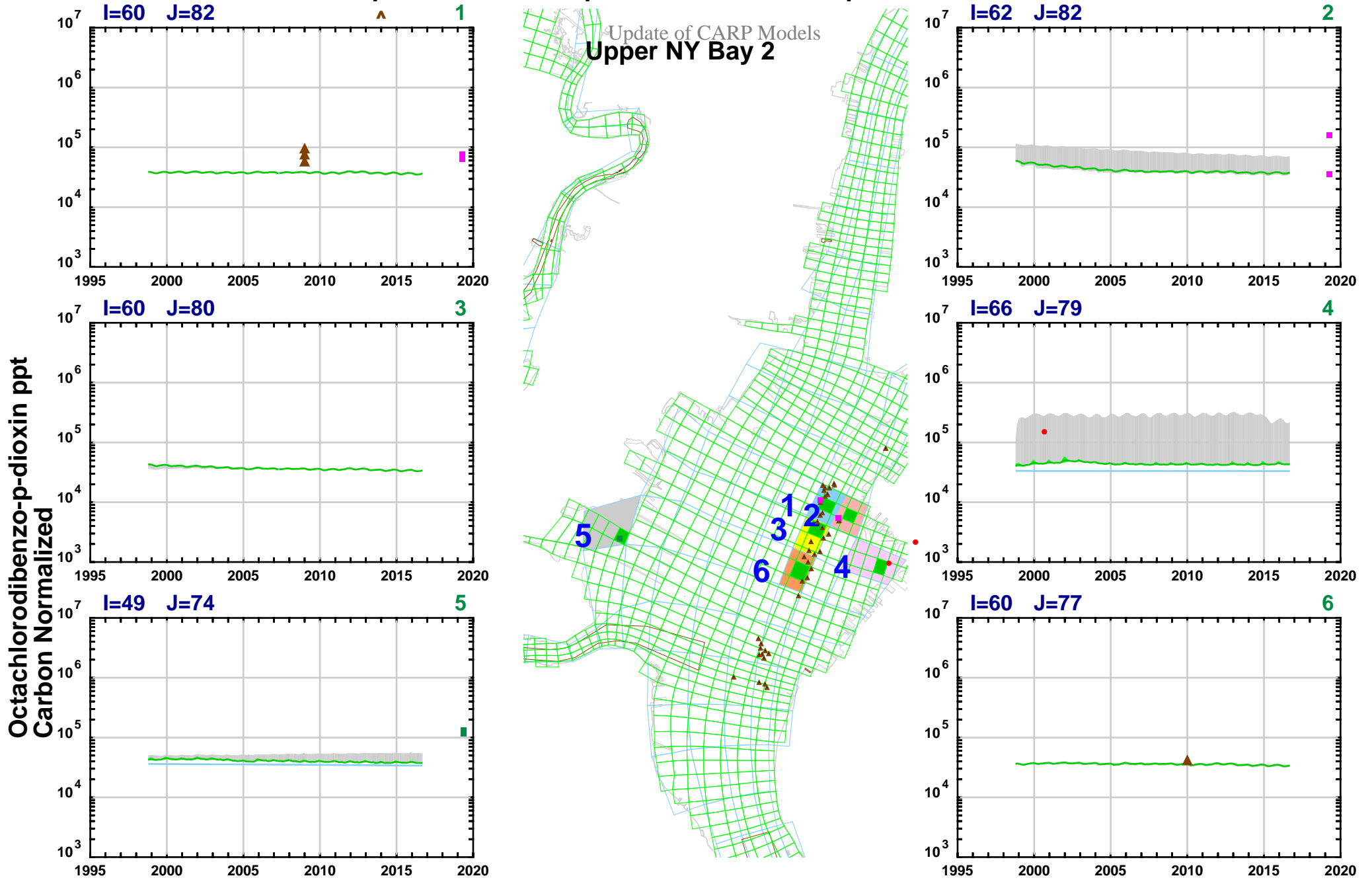


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

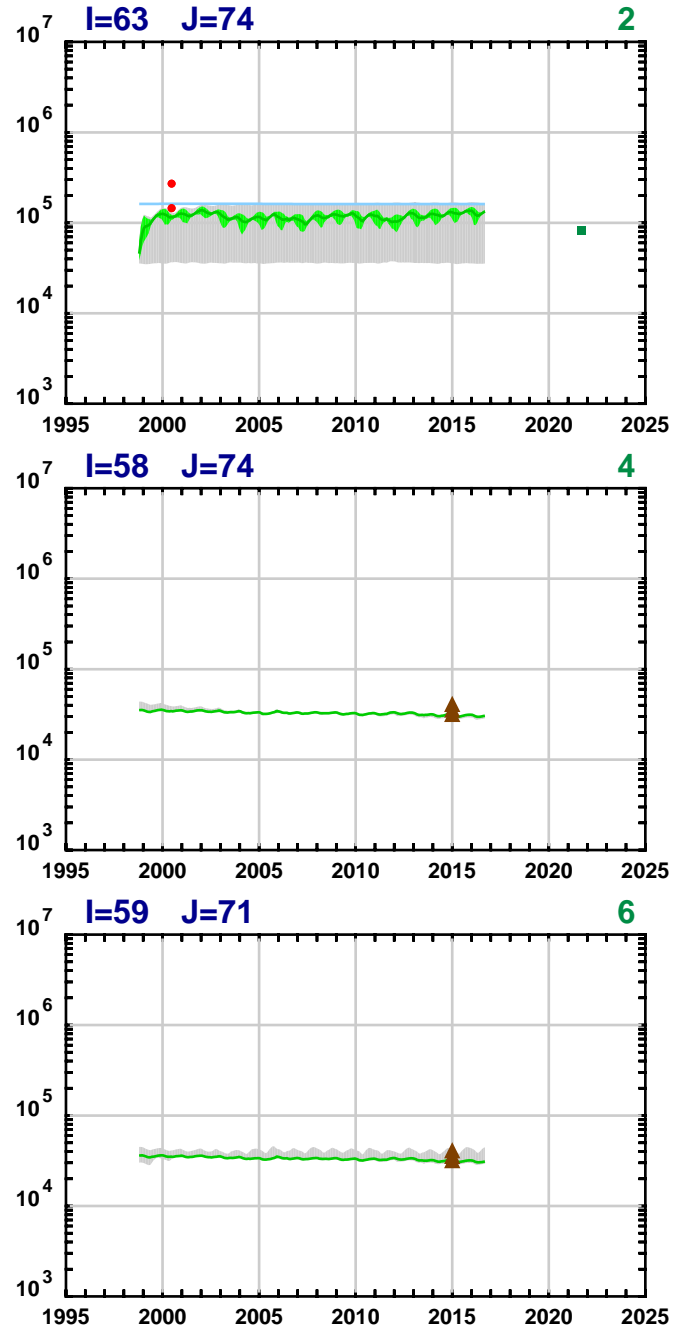
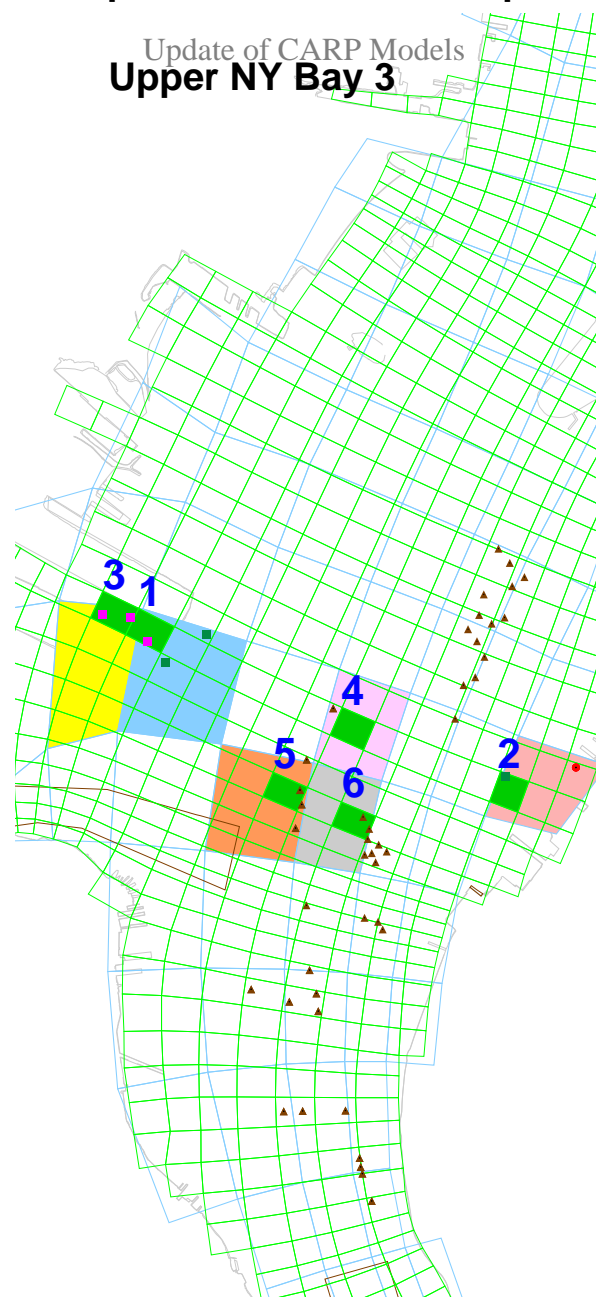
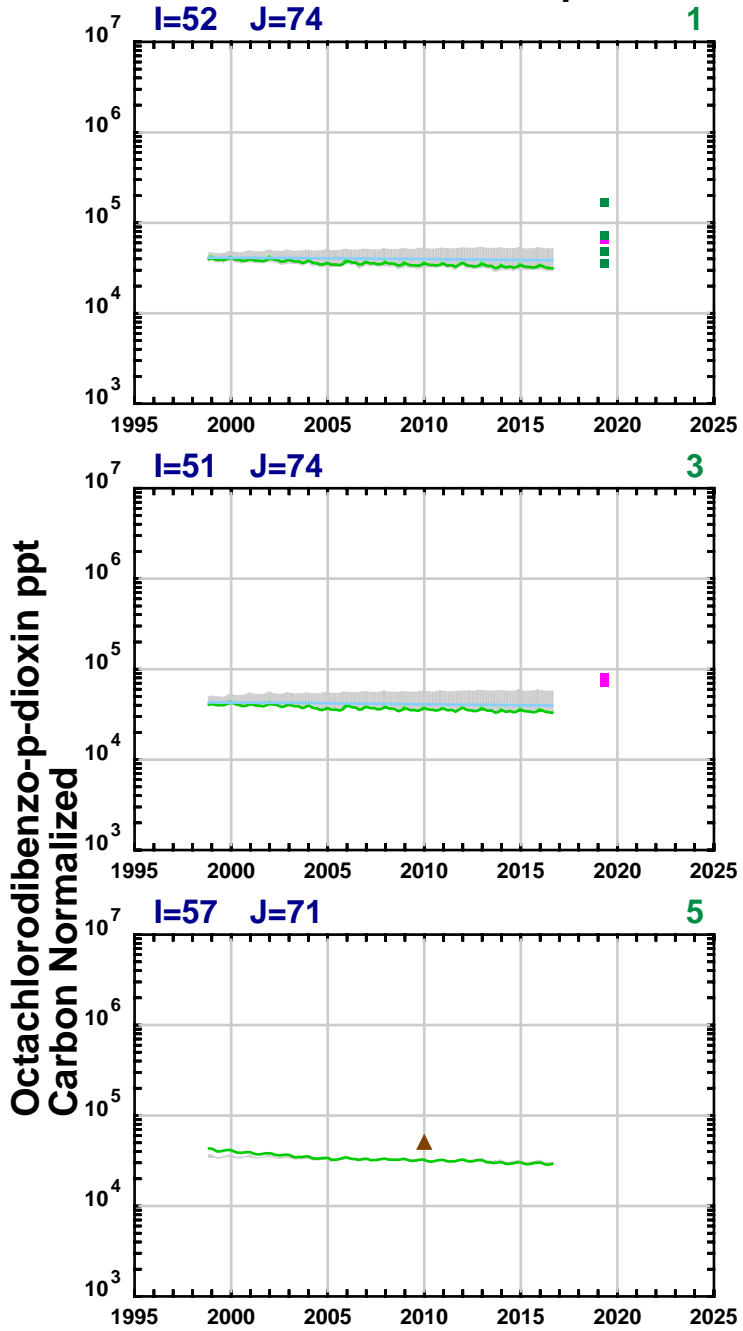


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data    ● Off-channel data    ▲ Dredge data**  
**■ CARP2 In-channel    ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment



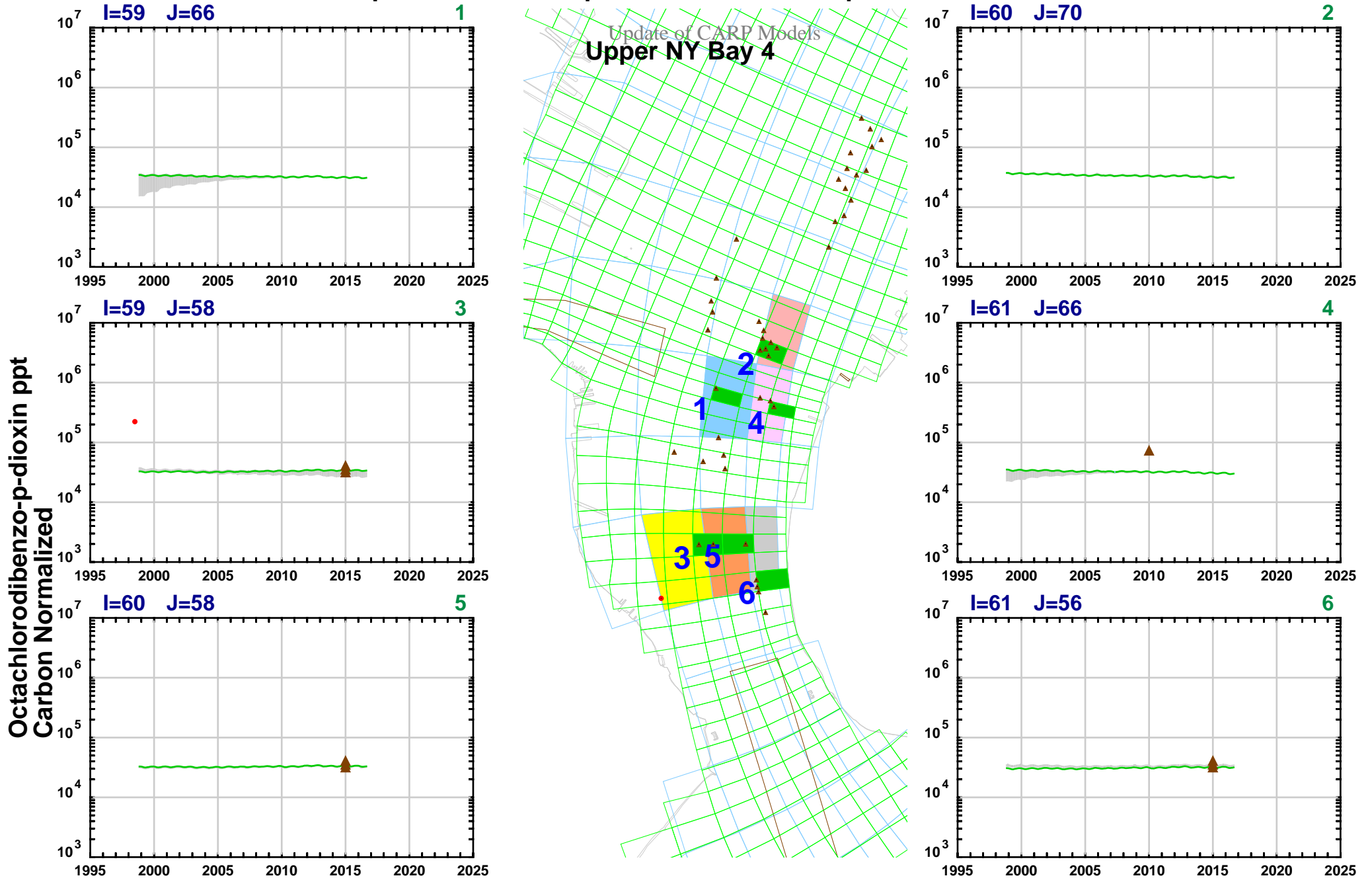
RUN18\_S3

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



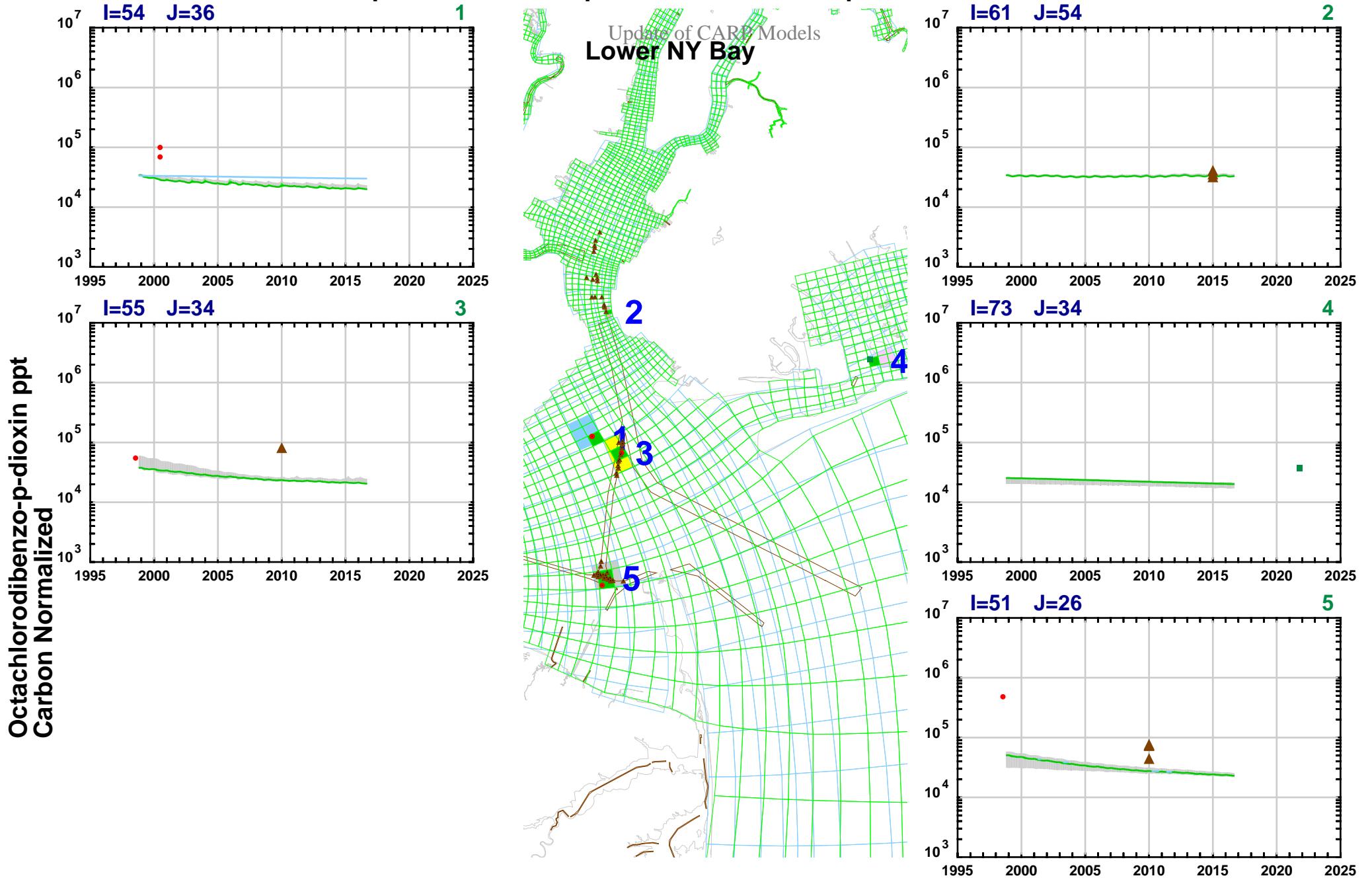
**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data   ● Off-channel data   ▲ Dredge data**  
**■ CARP2 In-channel   ■ CARP2 Off-channel**



# Top 15 cm data comparison with model top 10 cm sediment

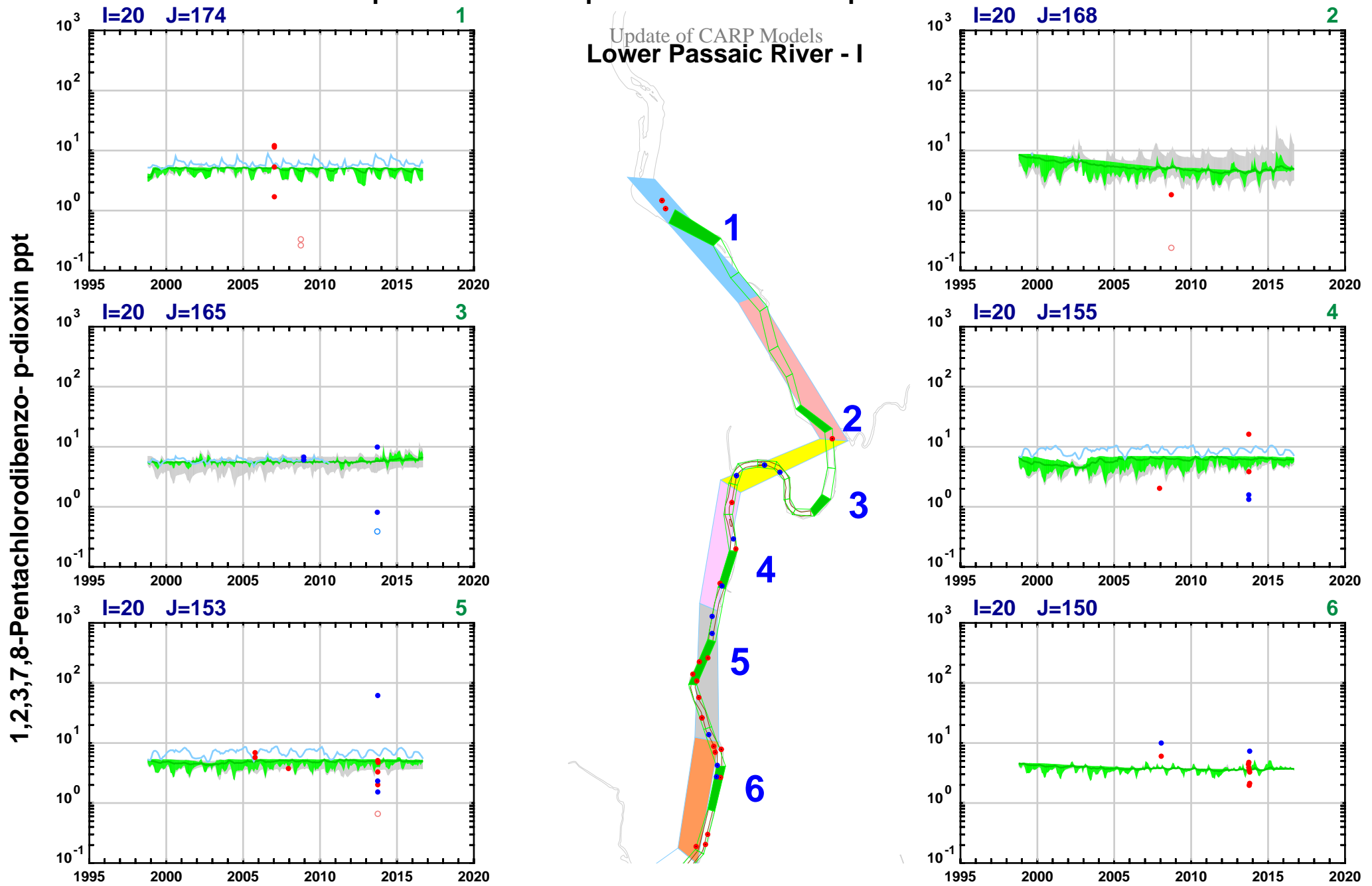


**RUN18\_S3**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

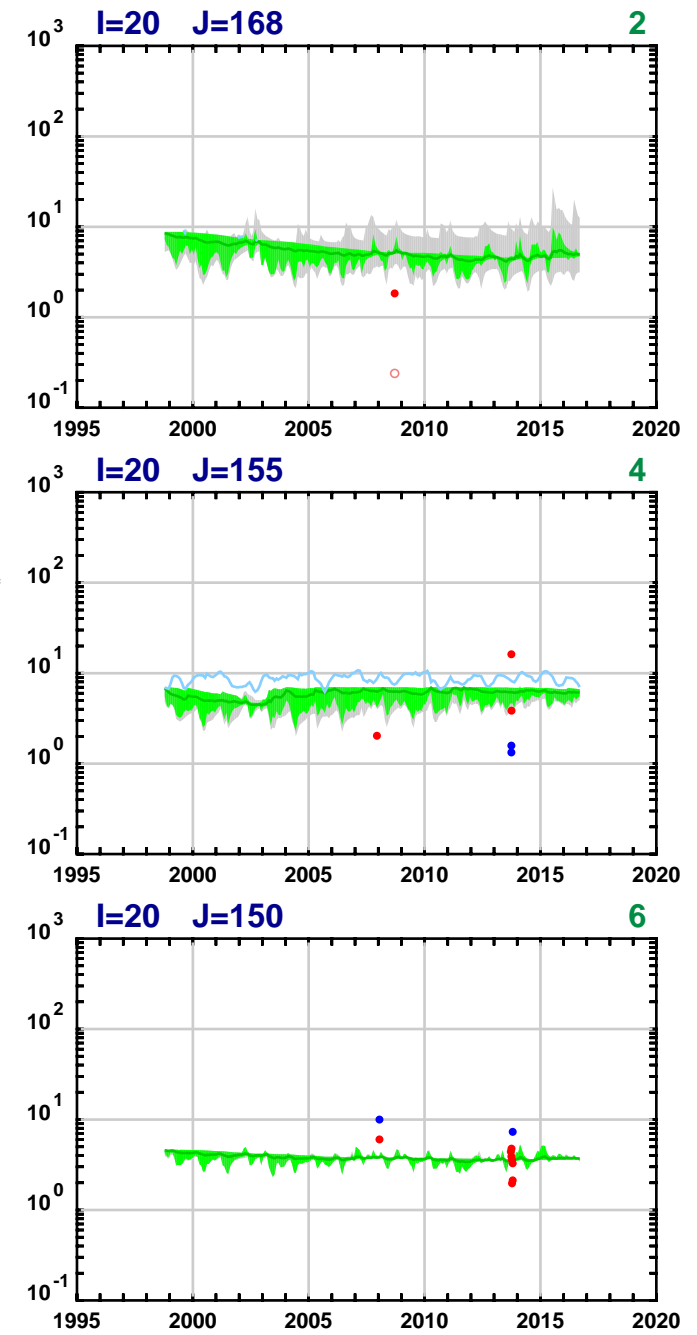
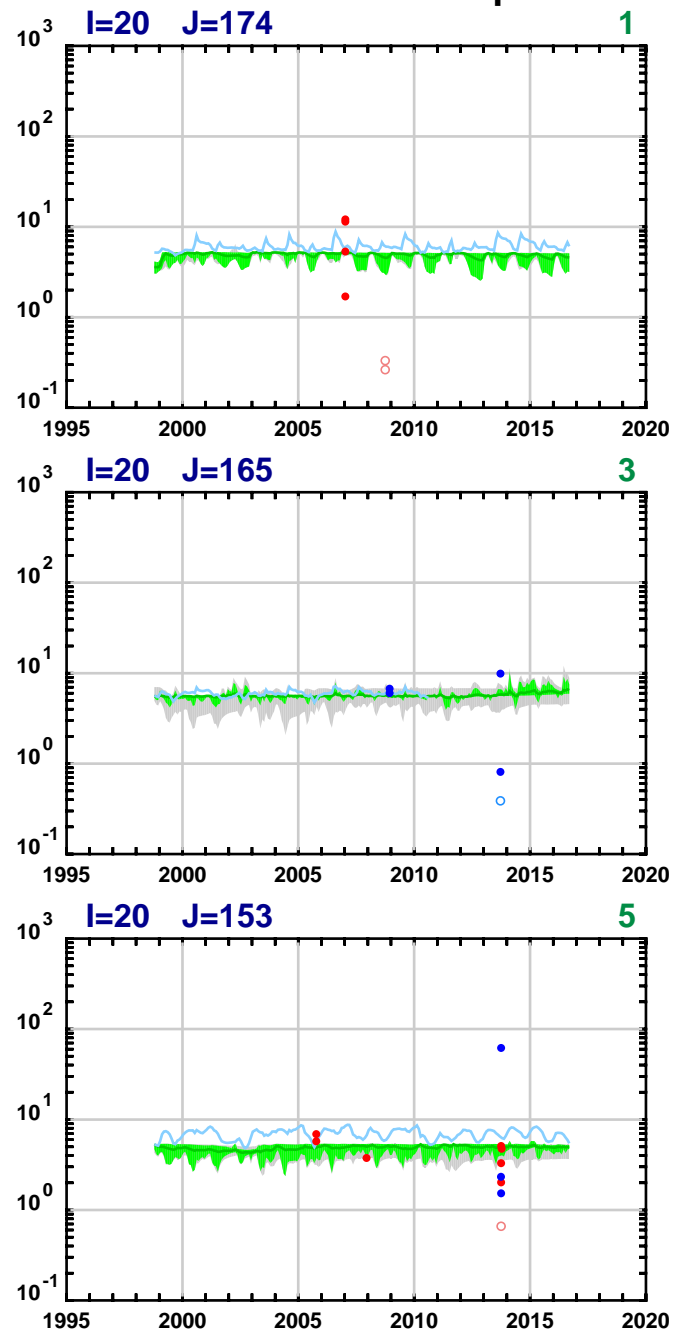
**● In-channel data ● Off-channel data ▲ Dredge data**  
**■ CAPP2 In-channel ■ CAPP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment



Update of CARP Models  
Lower Passaic River - I

1,2,3,7,8-Pentachlorodibenzo- p-dioxin ppt

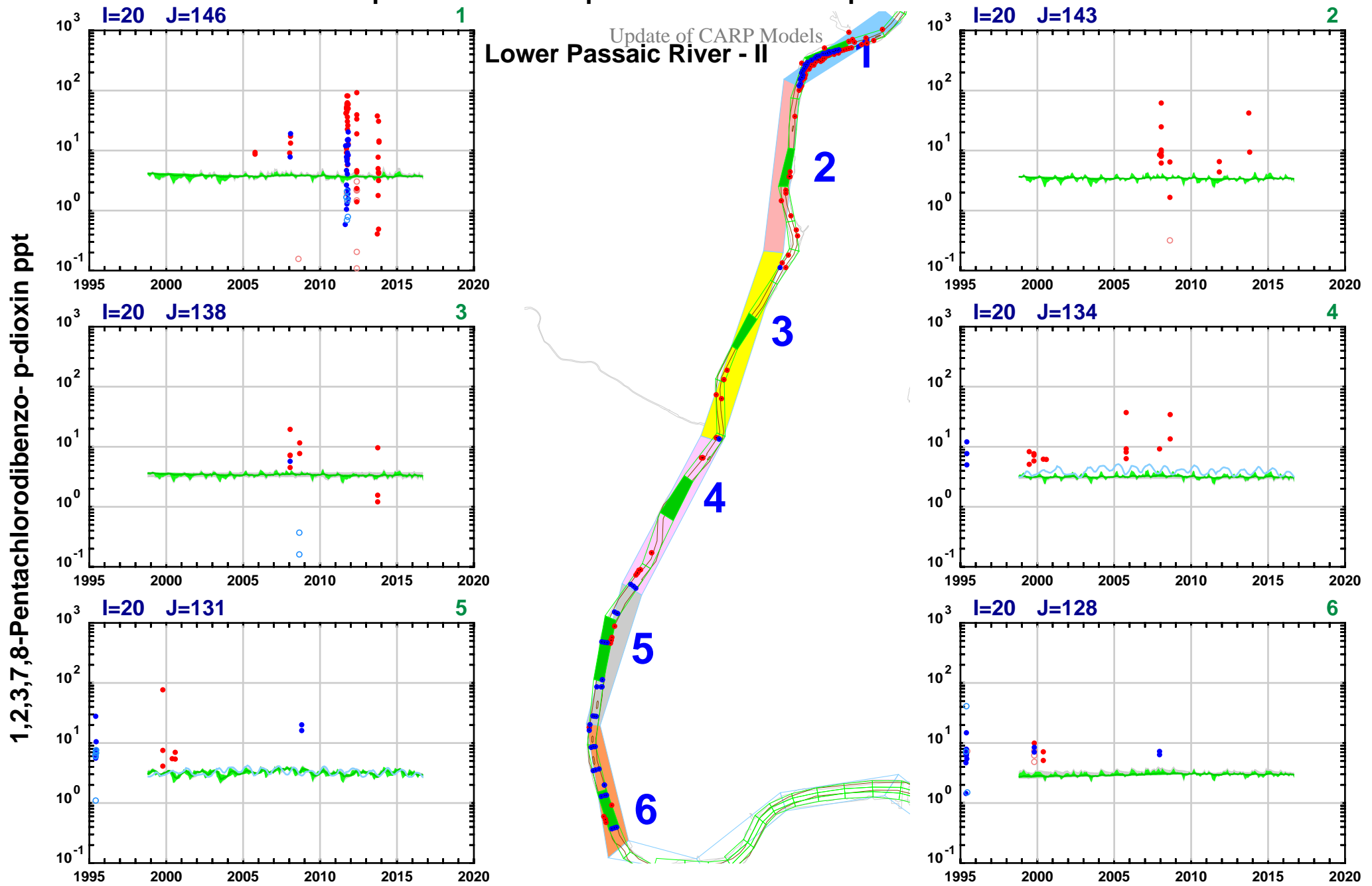


**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

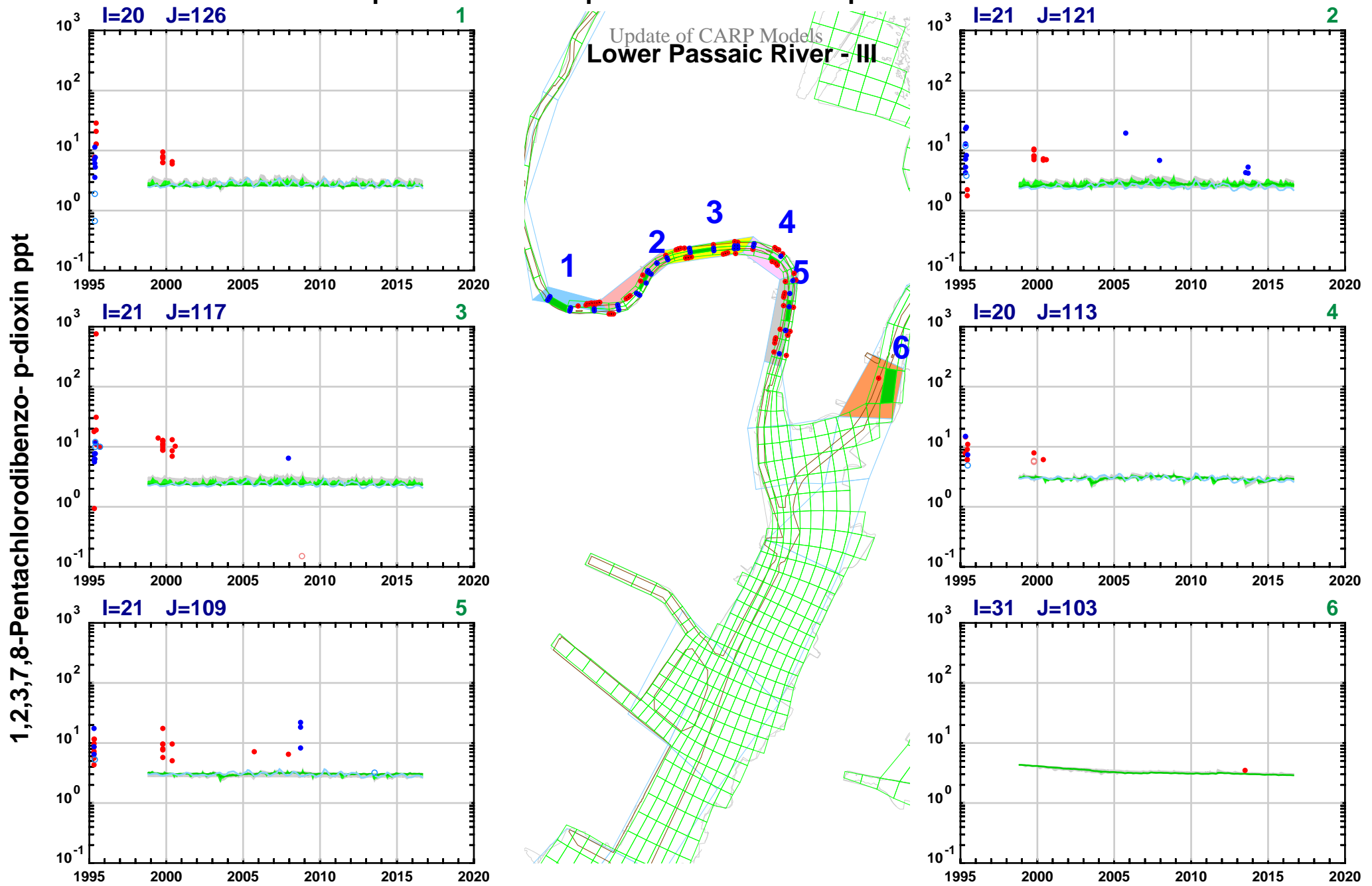


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

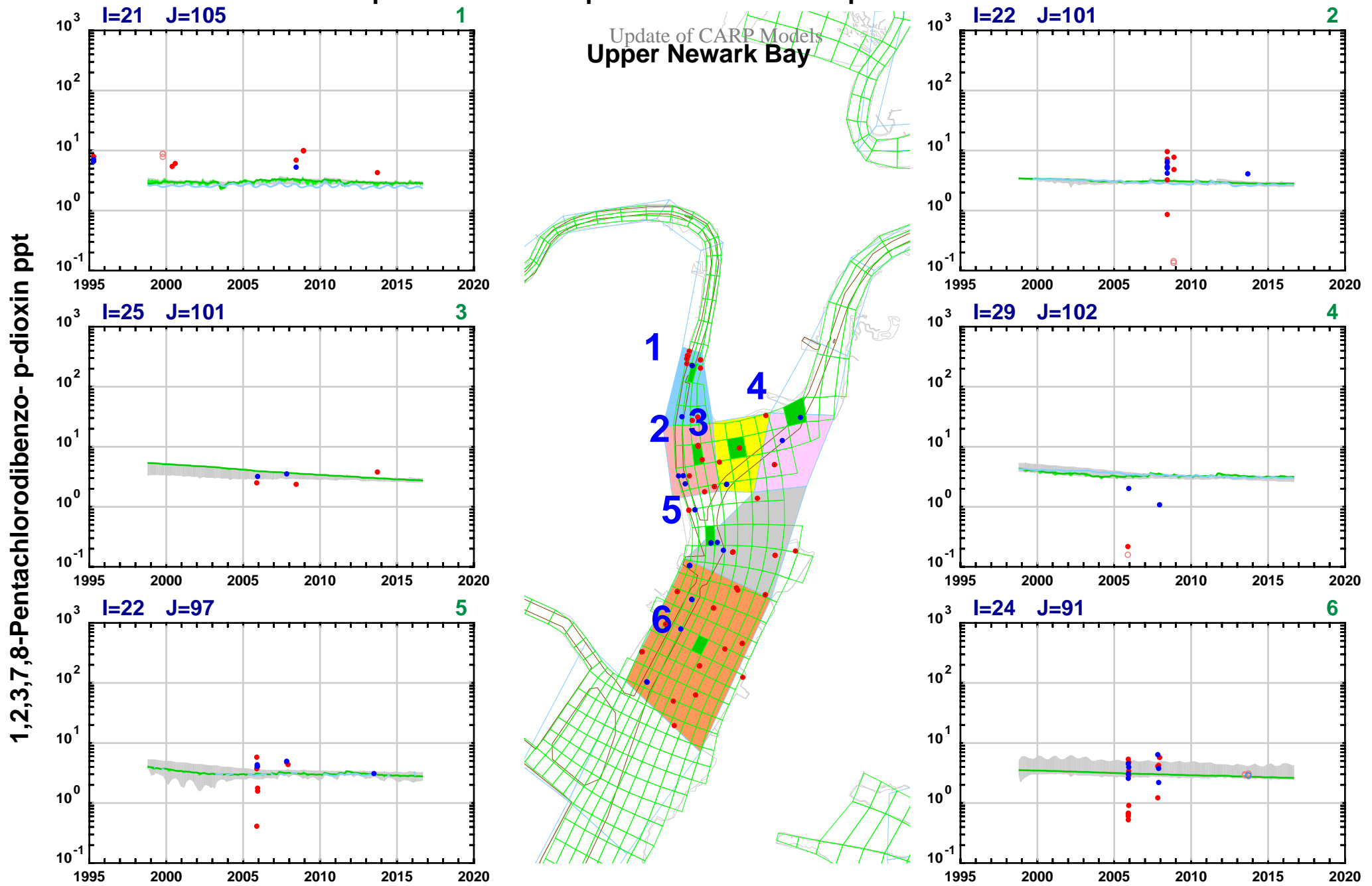


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



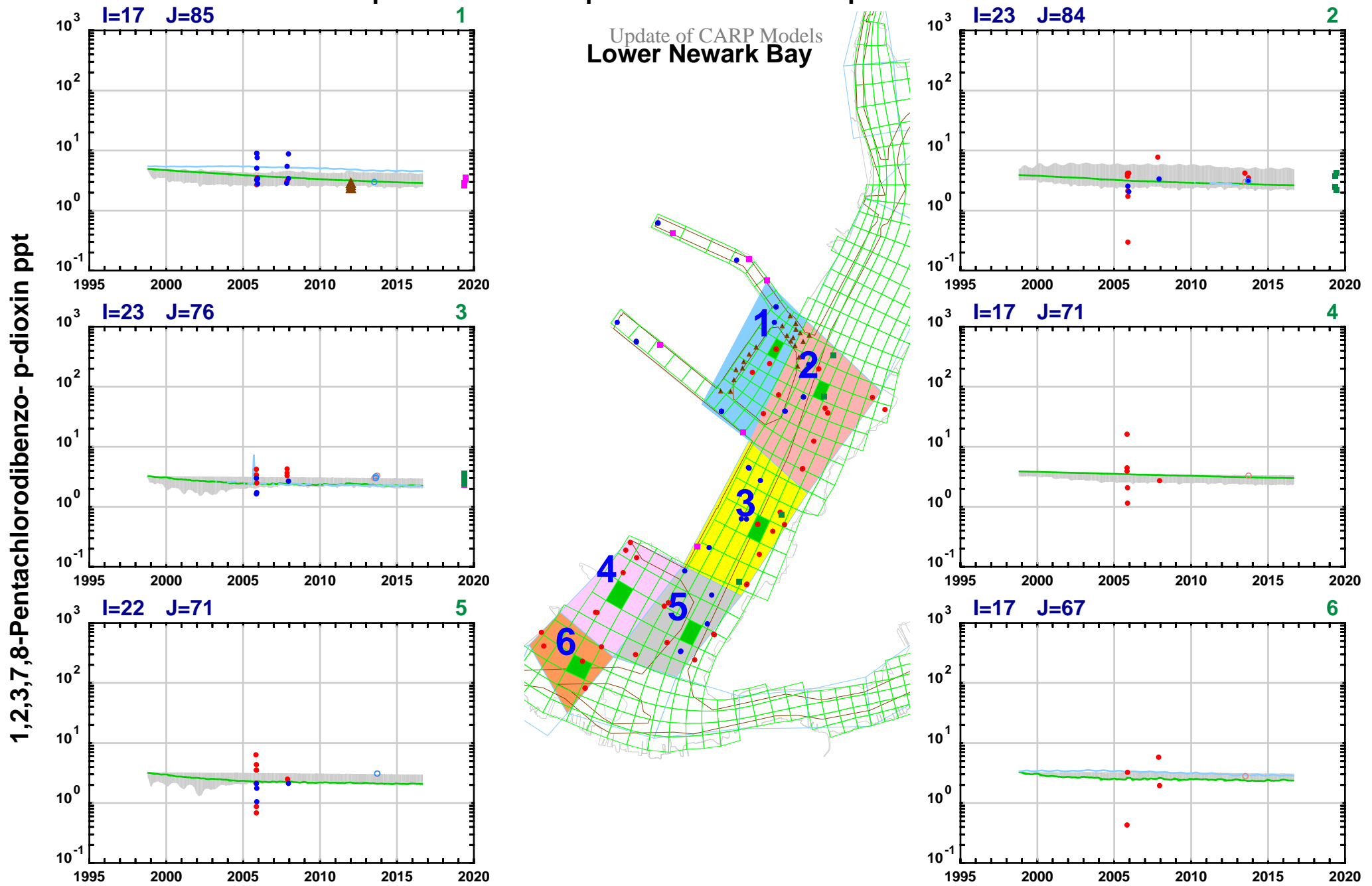
Update of CARP Models  
Upper Newark Bay

RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



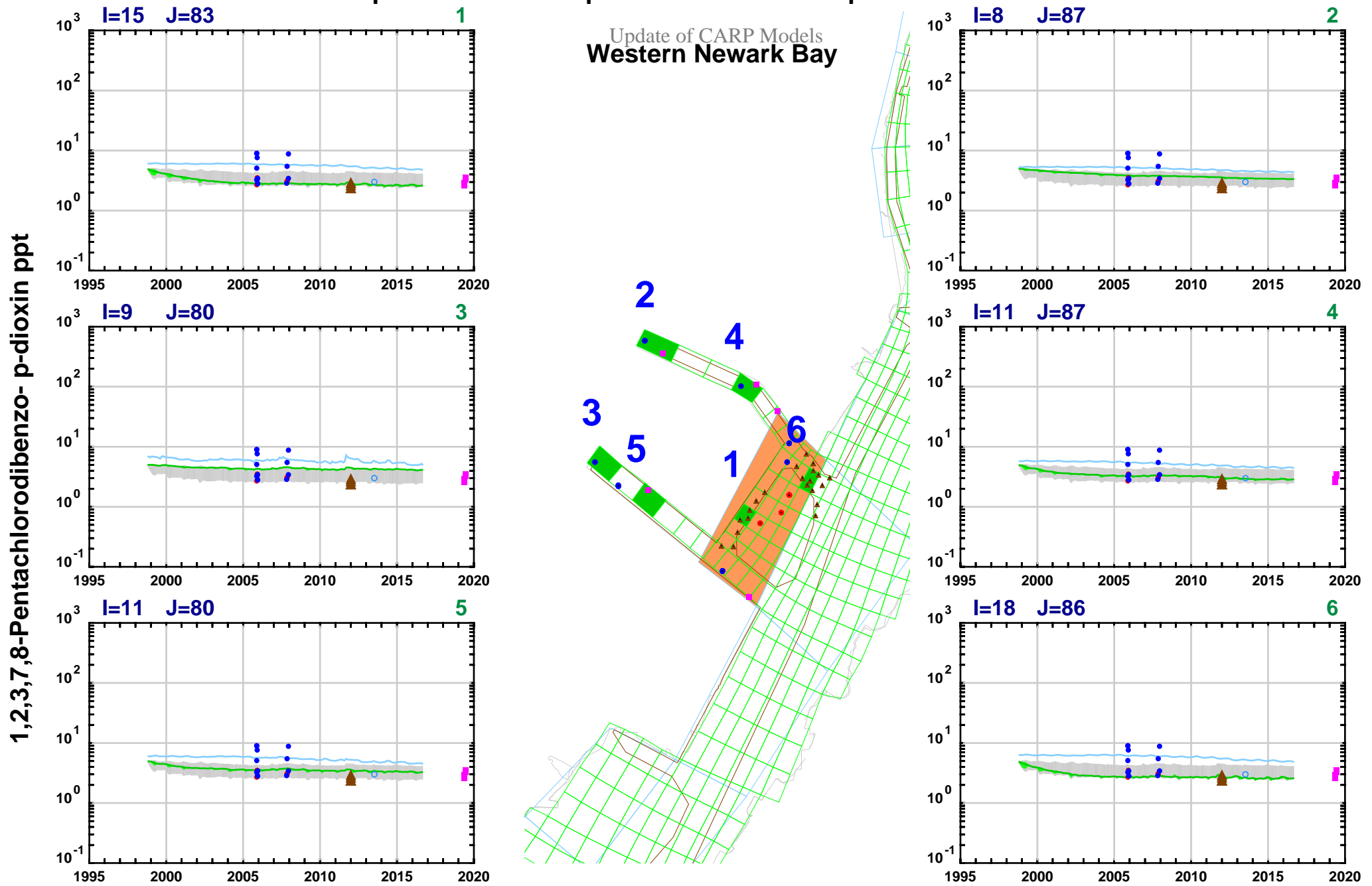
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay



**RUN18\_S4\_R2**

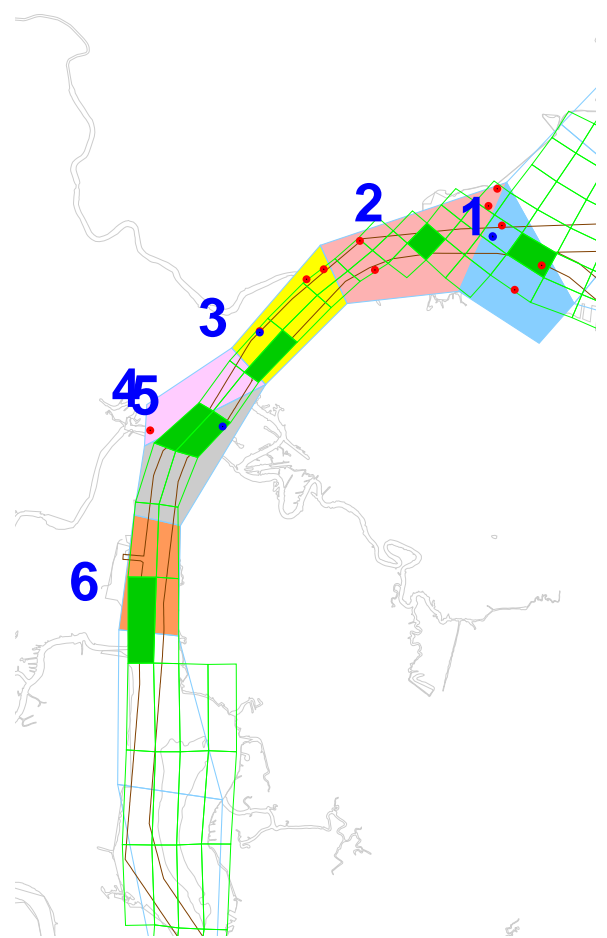
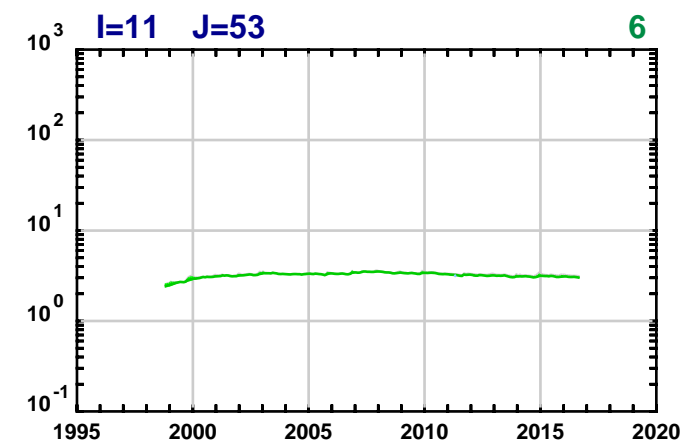
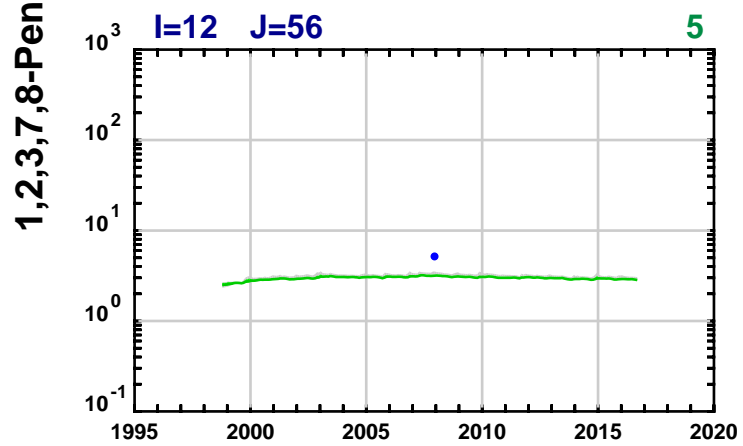
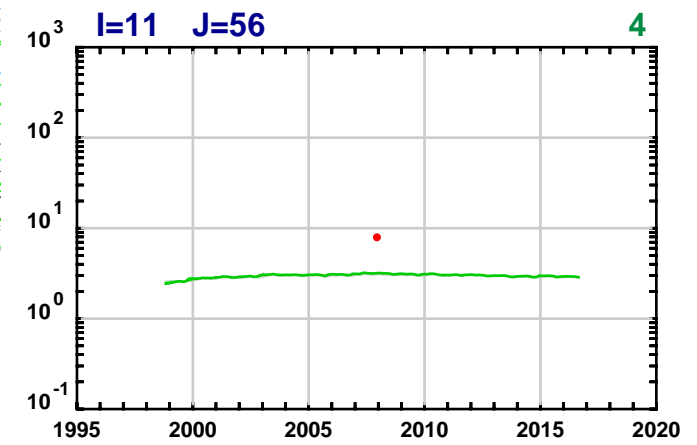
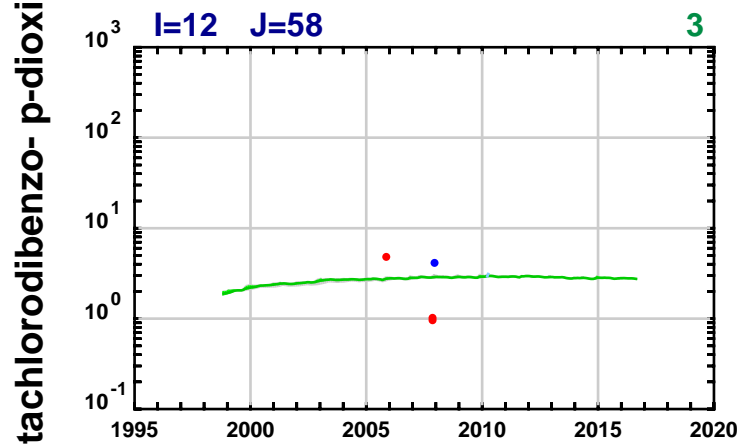
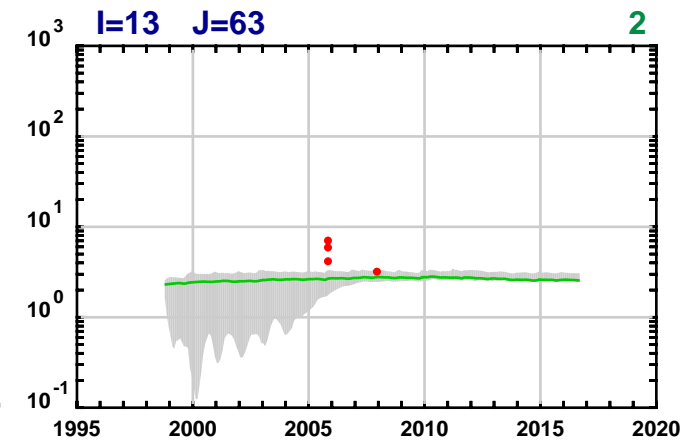
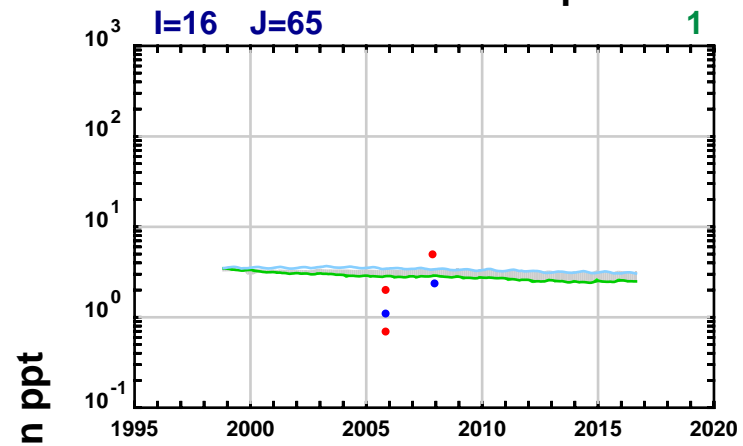
**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1



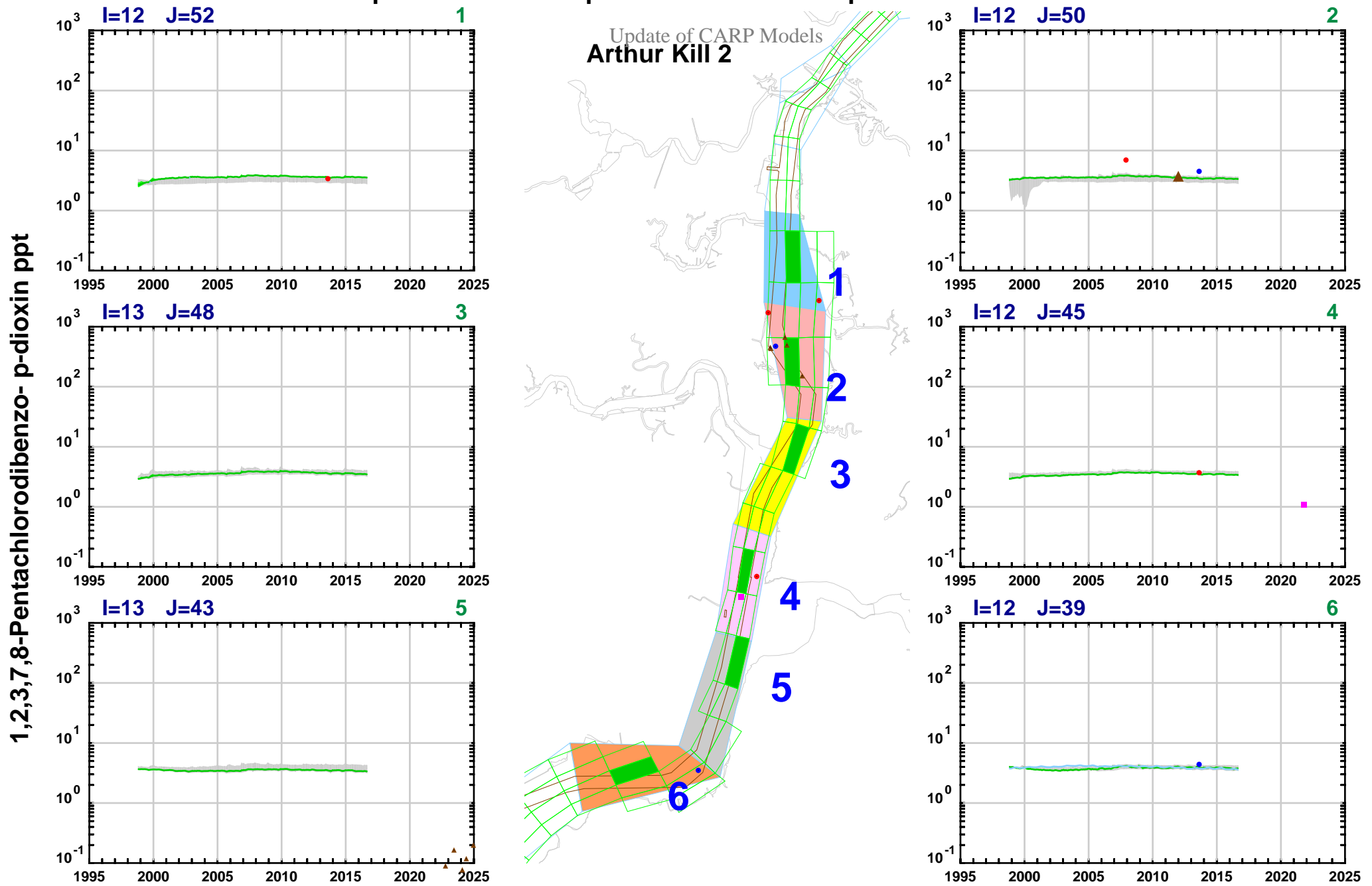
1,2,3,7,8-Pentachlorodibenzo- p-dioxin ppt

RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

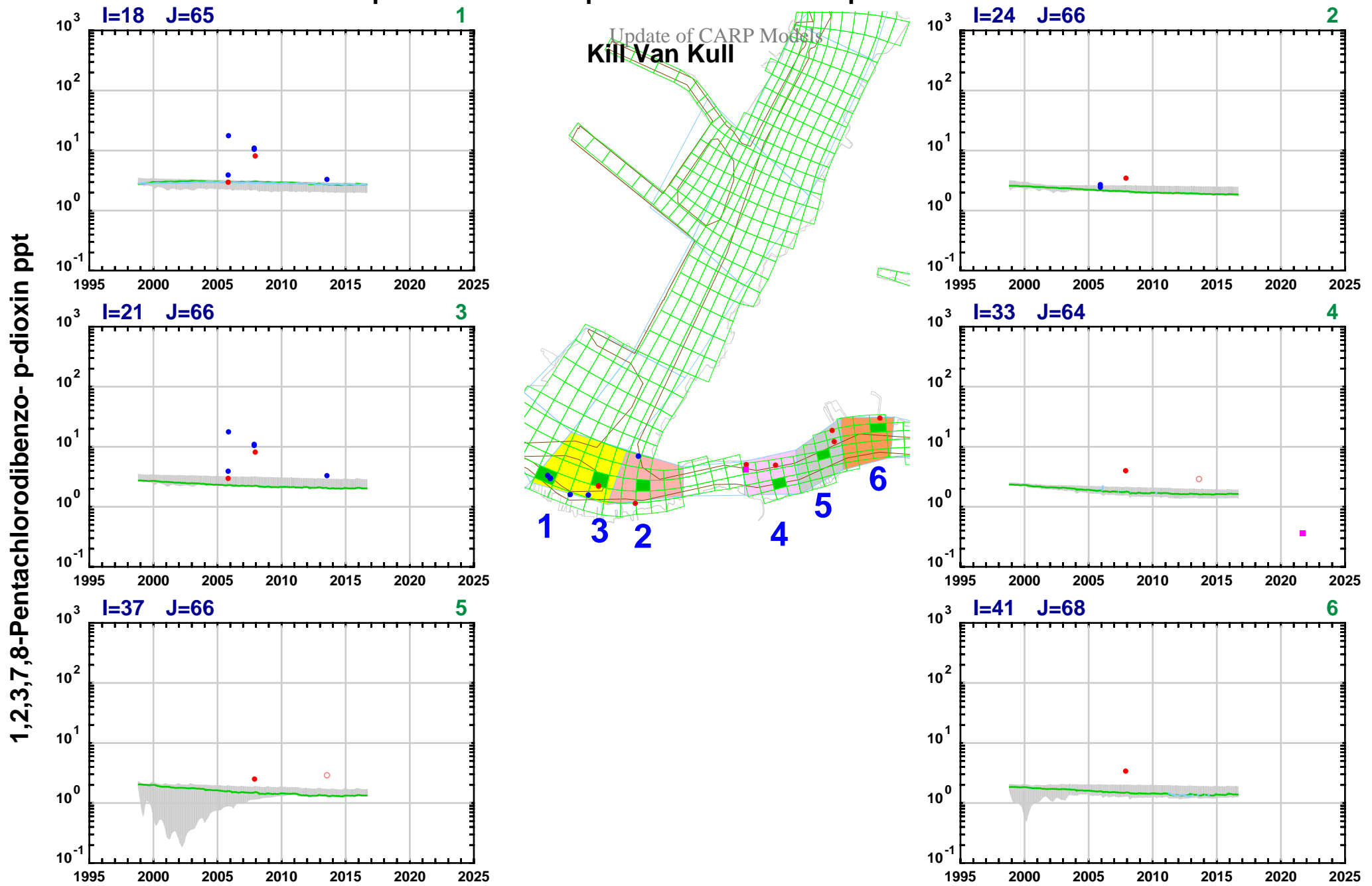


**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data**    **● Off-channel data**    **▲ Dredge data**  
**■ CARP2 In-channel**    **■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

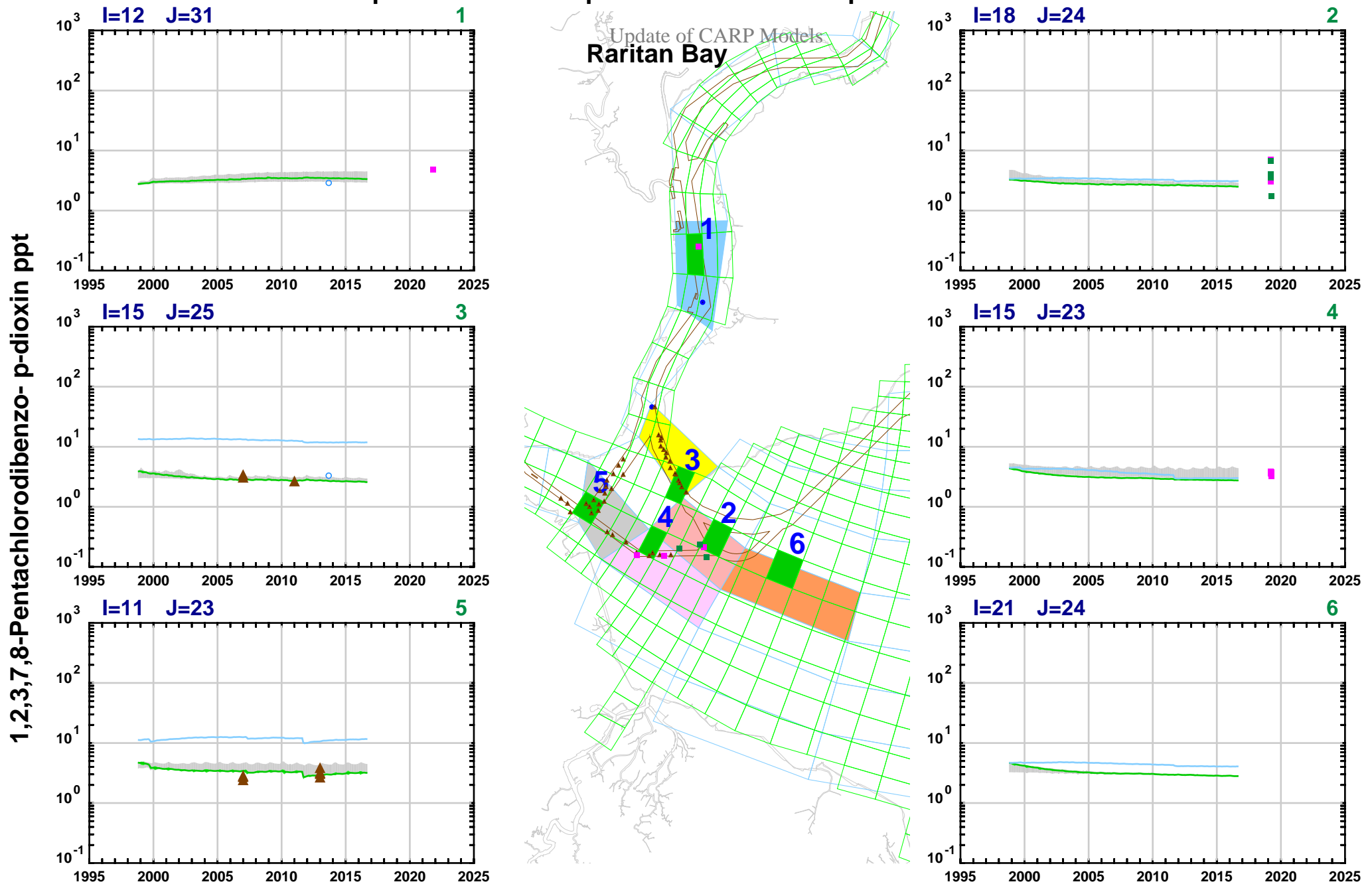


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

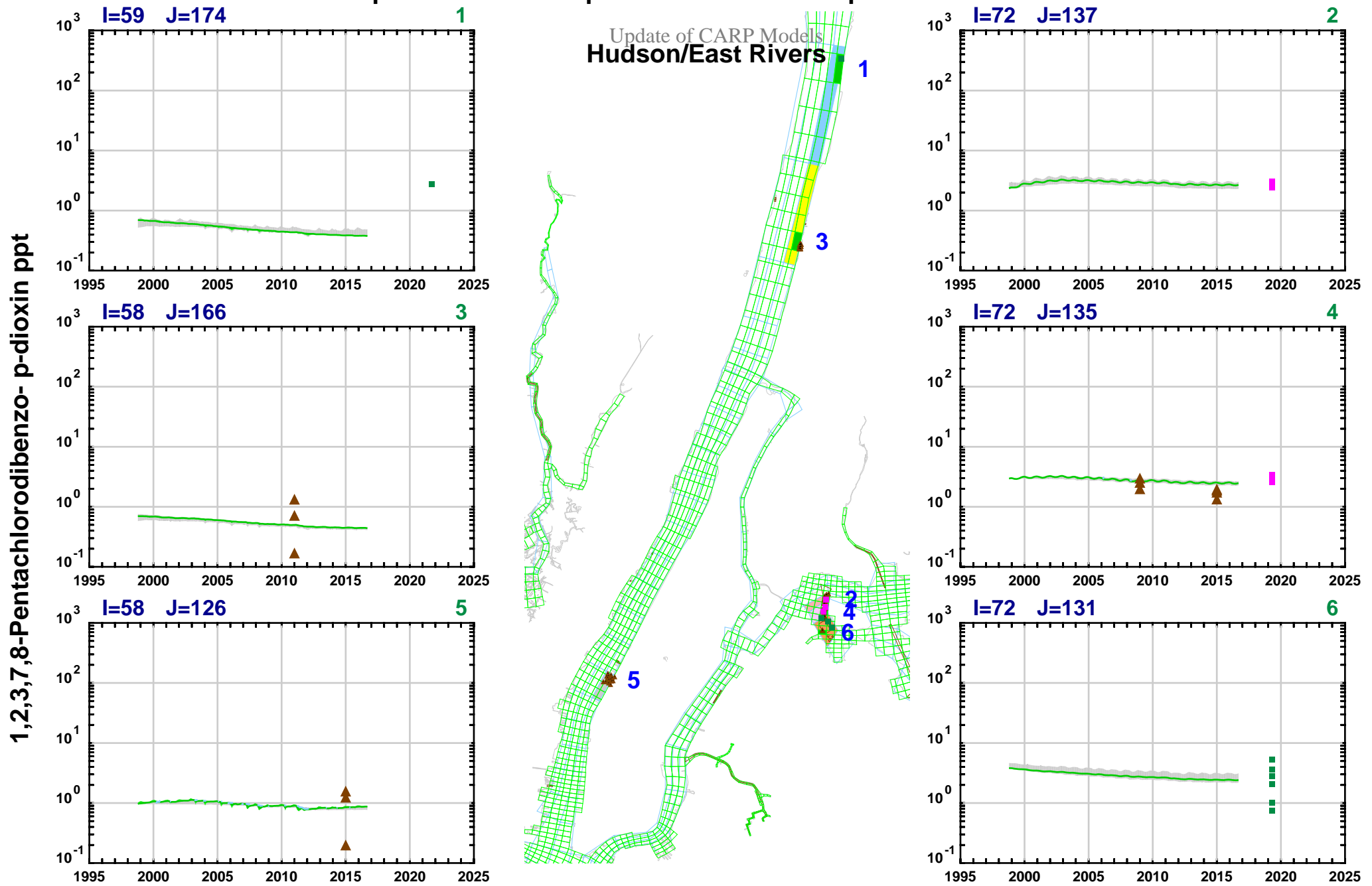


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



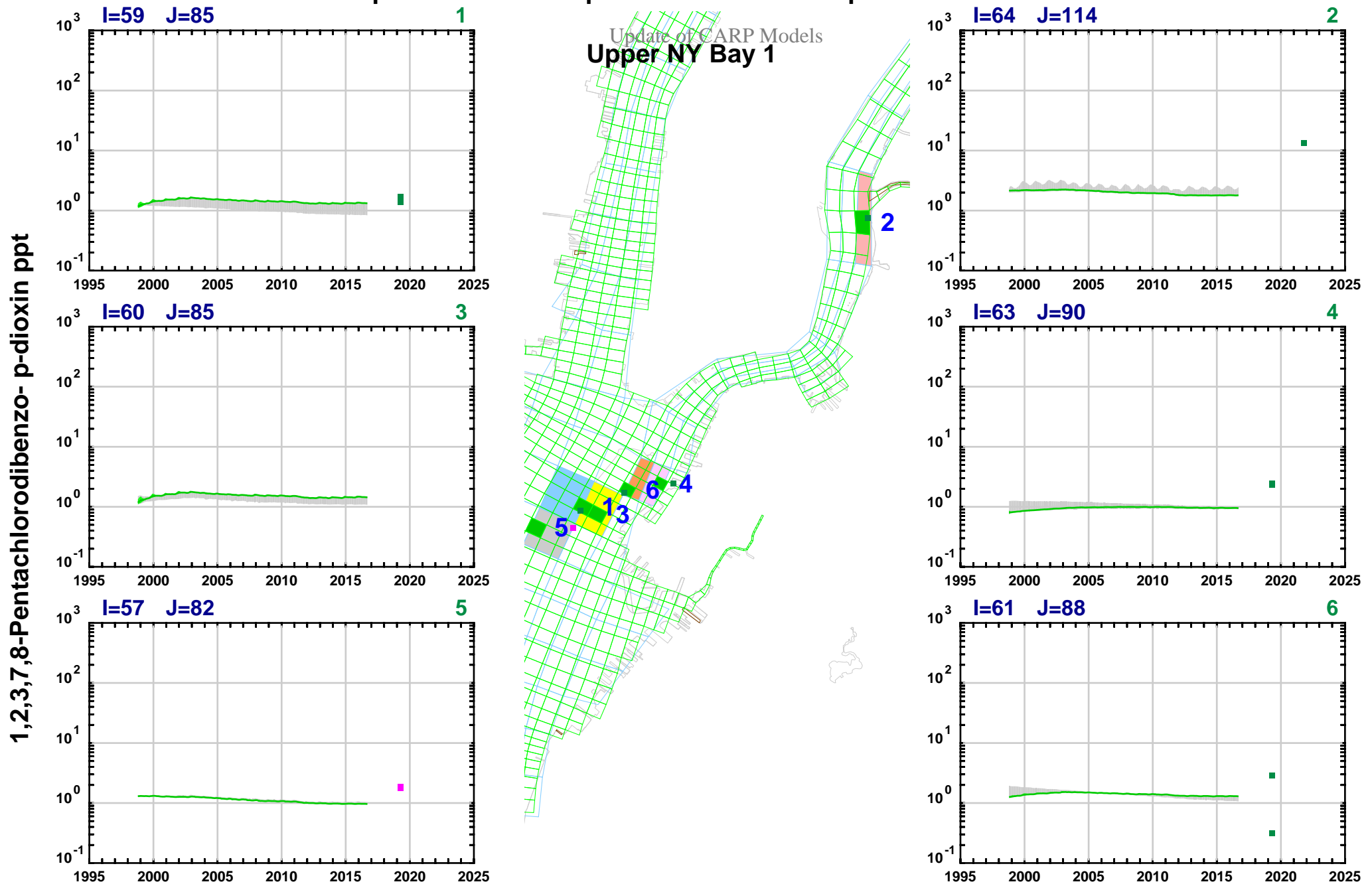
Update of CARP Models  
Hudson/East Rivers

RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

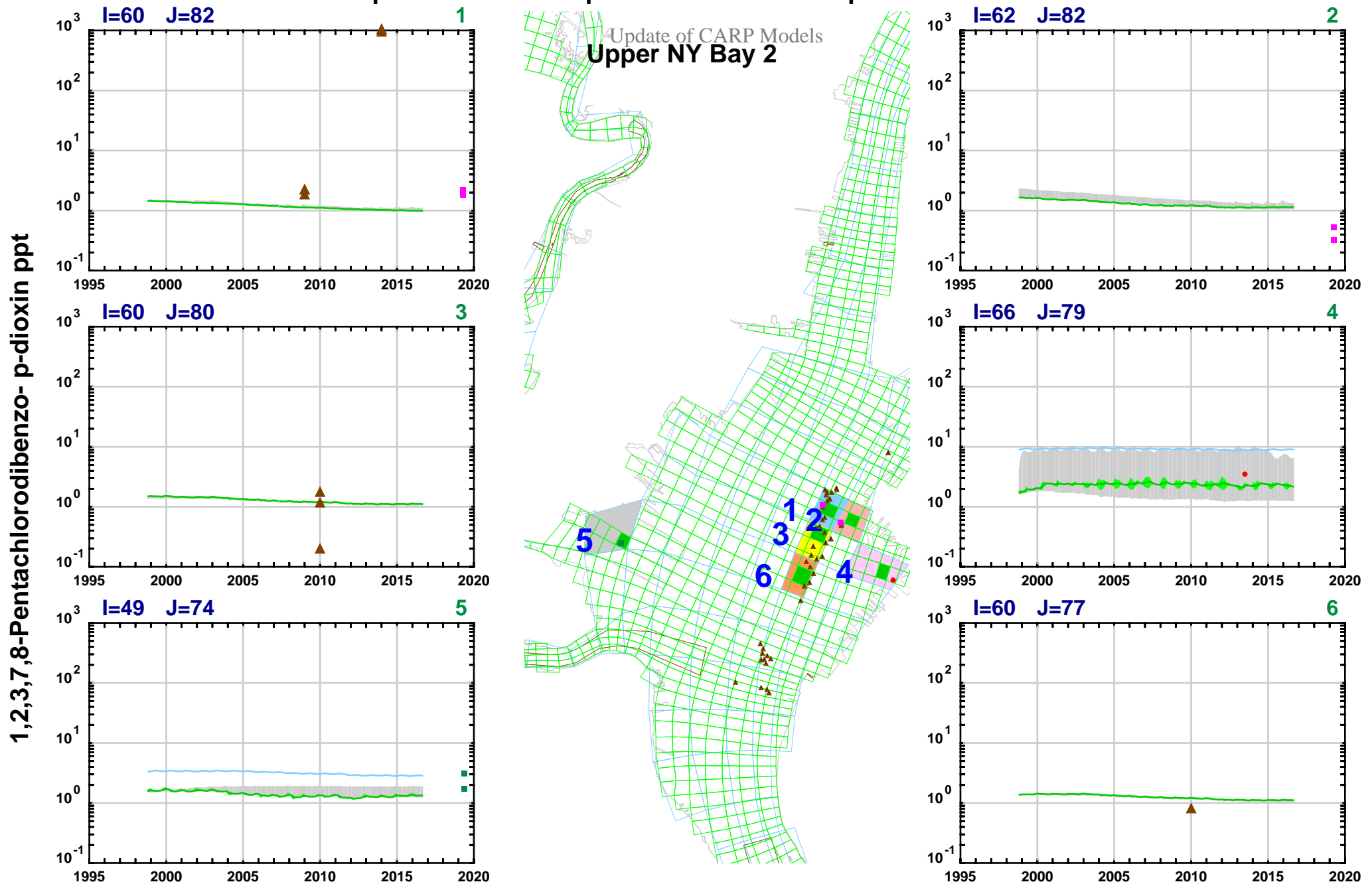


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



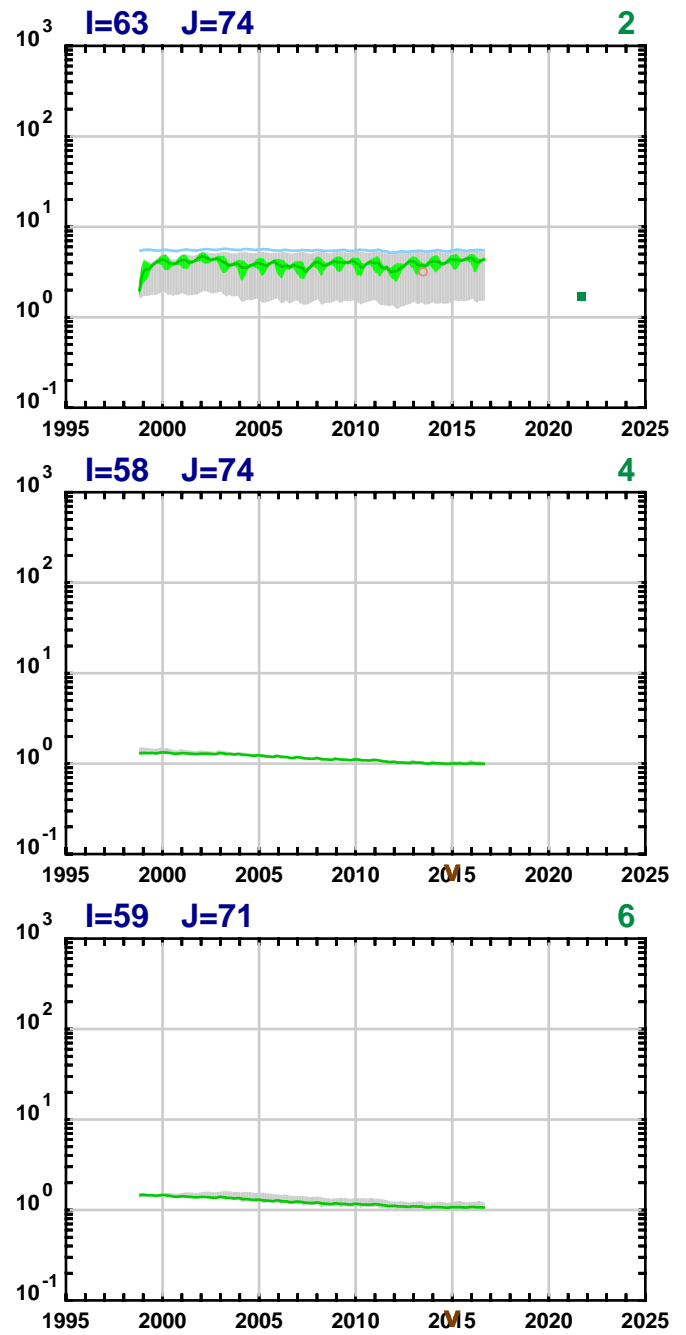
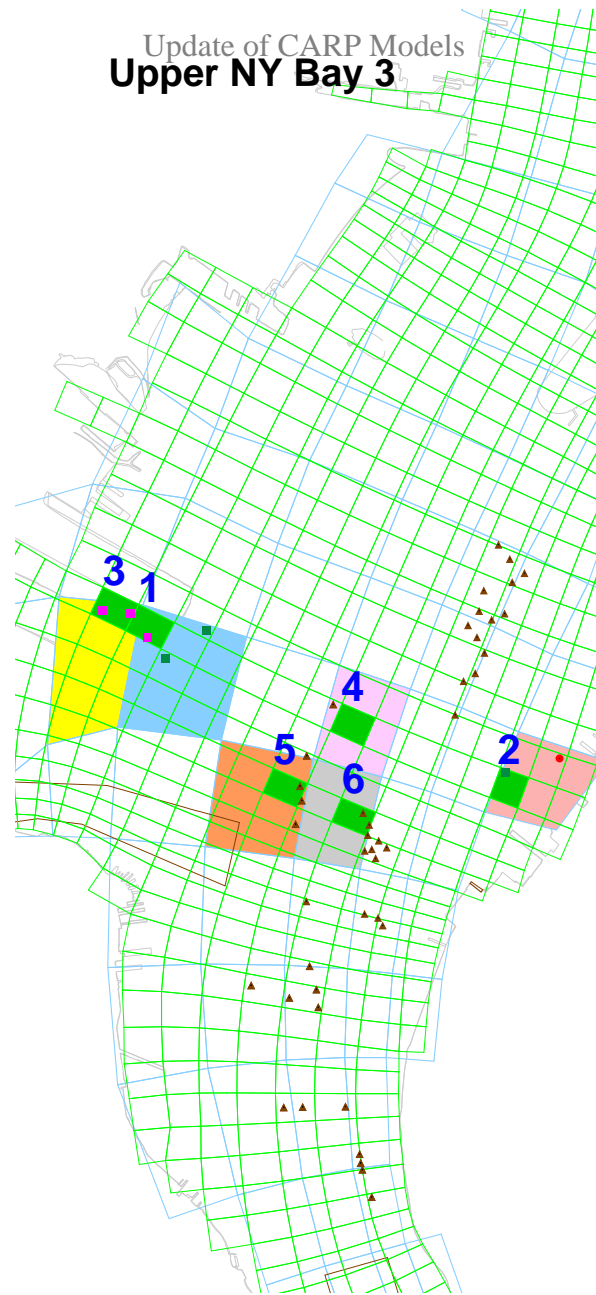
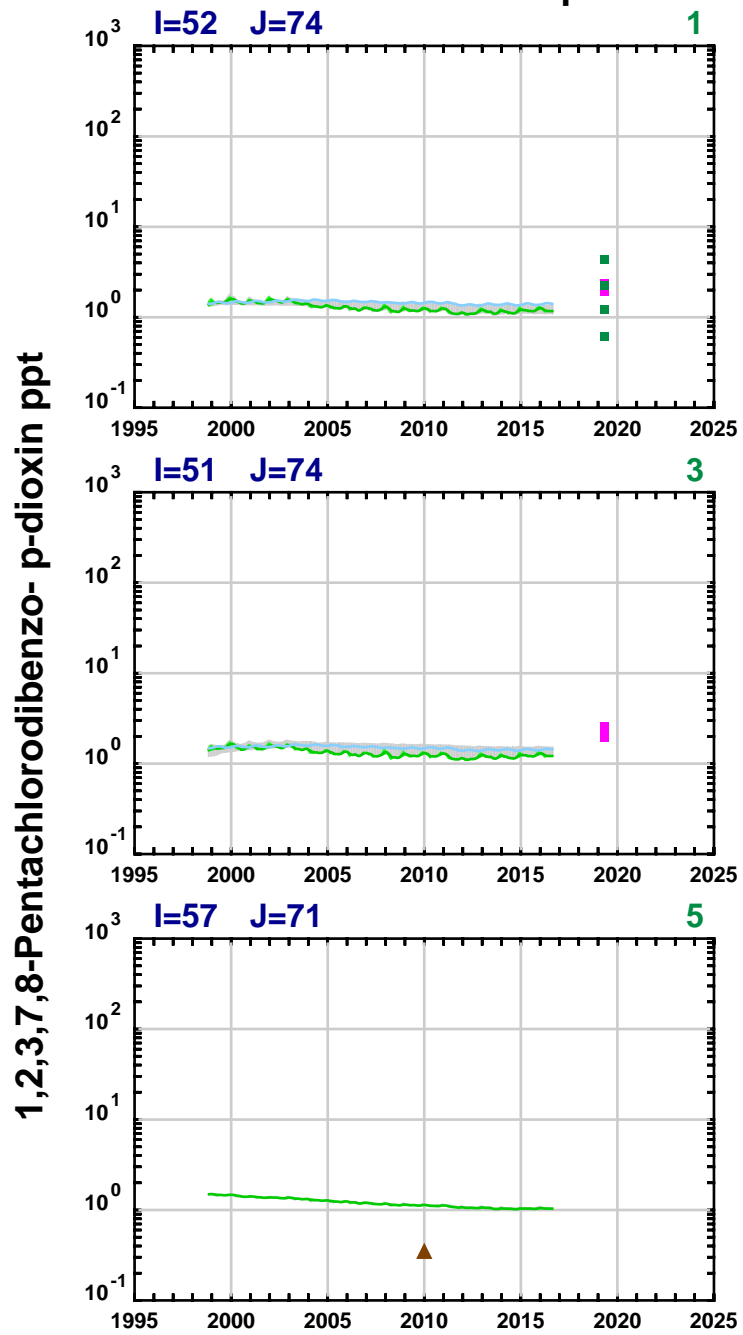
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

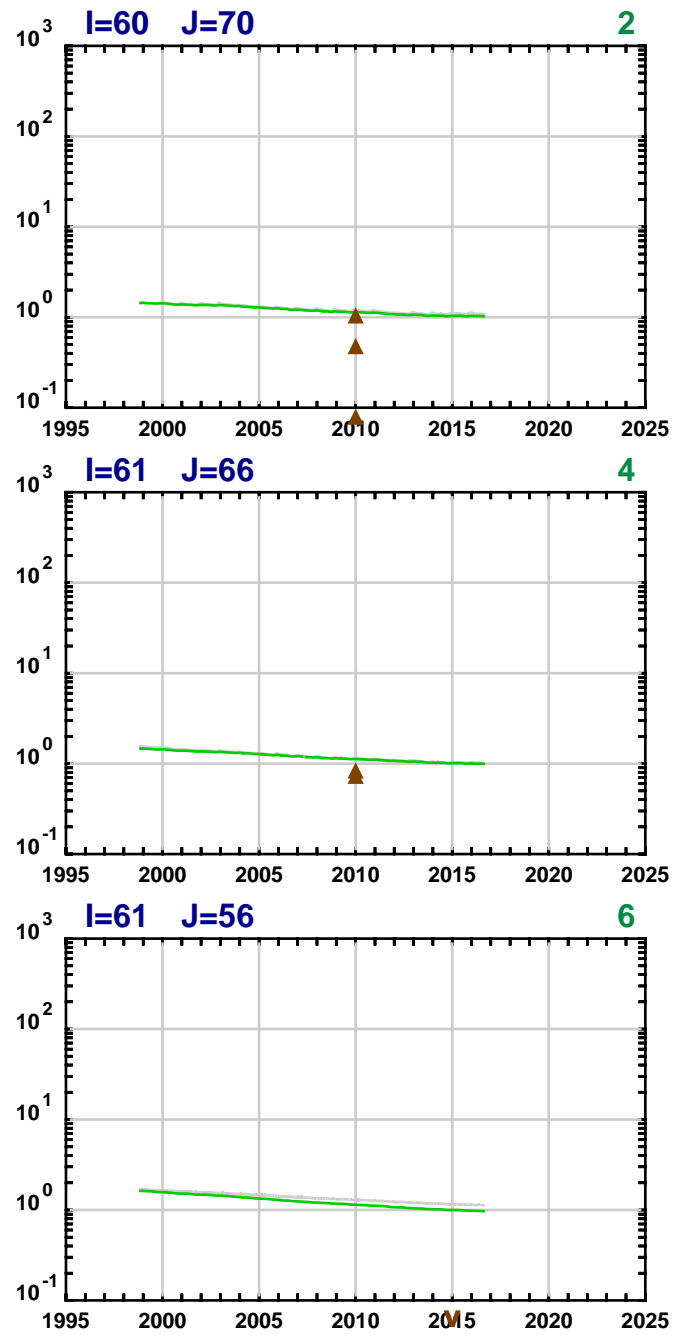
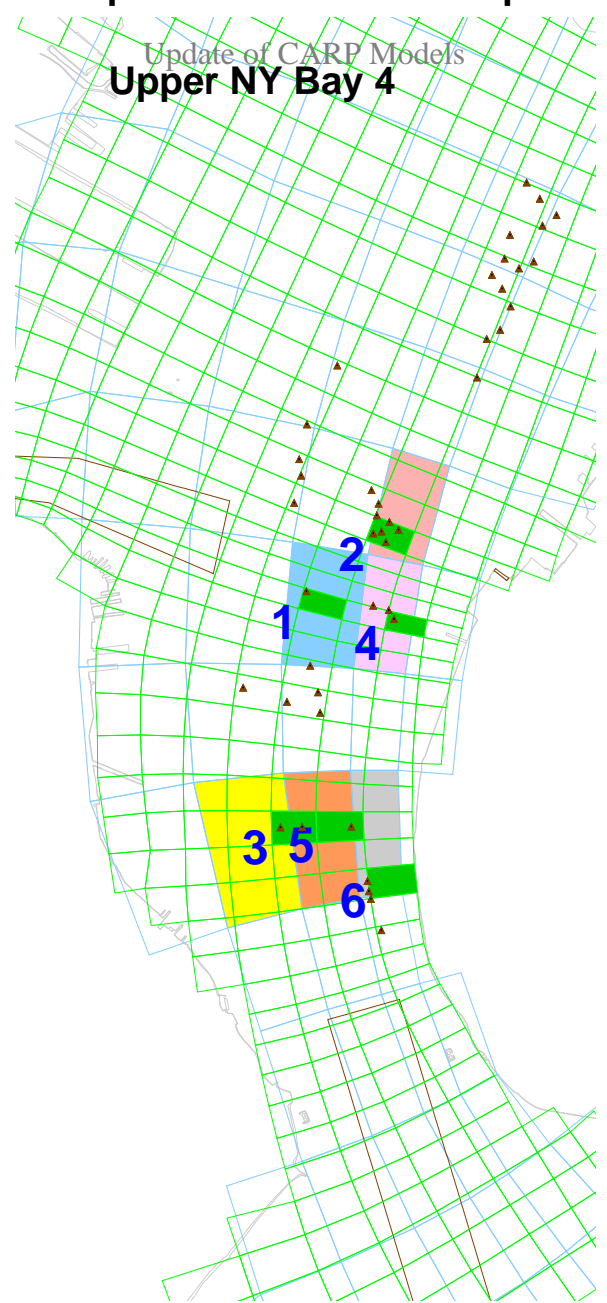
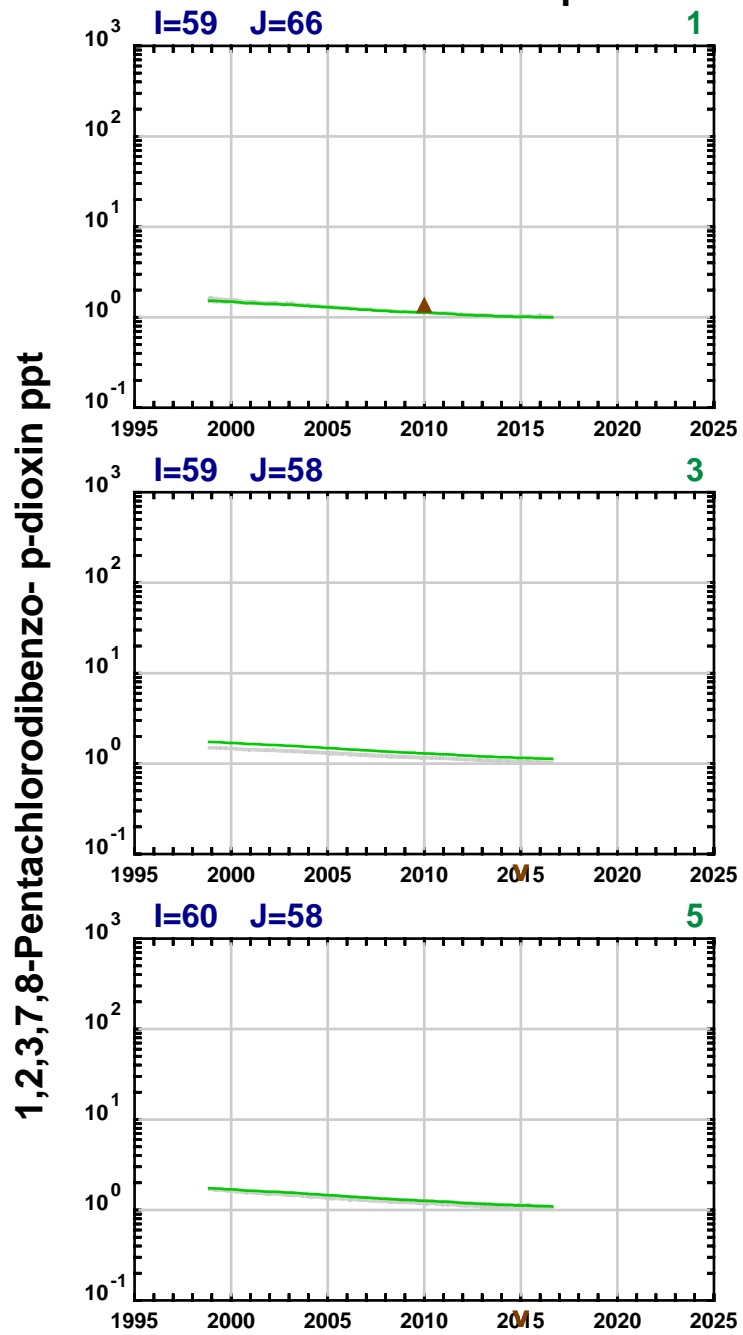


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

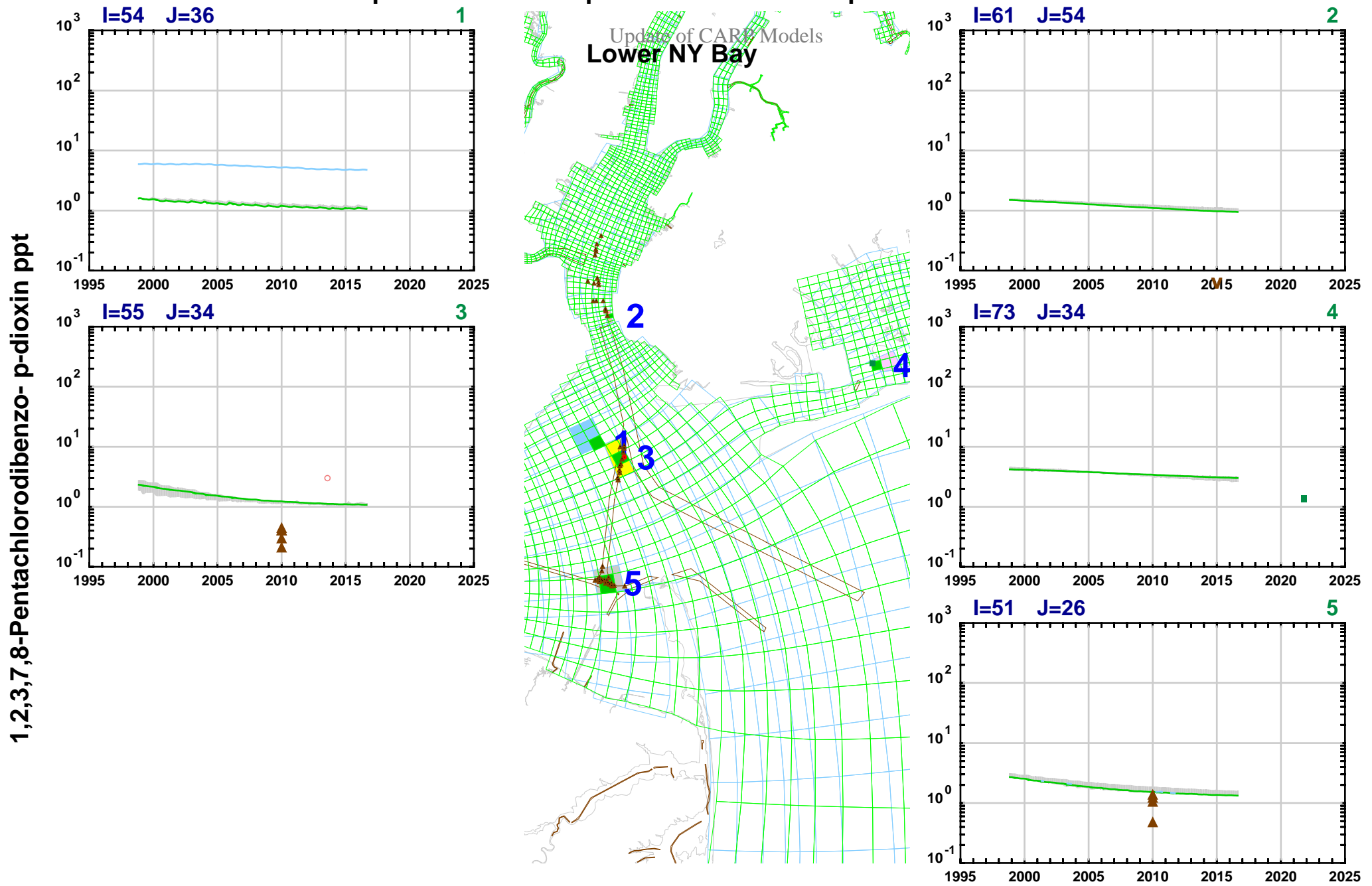


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



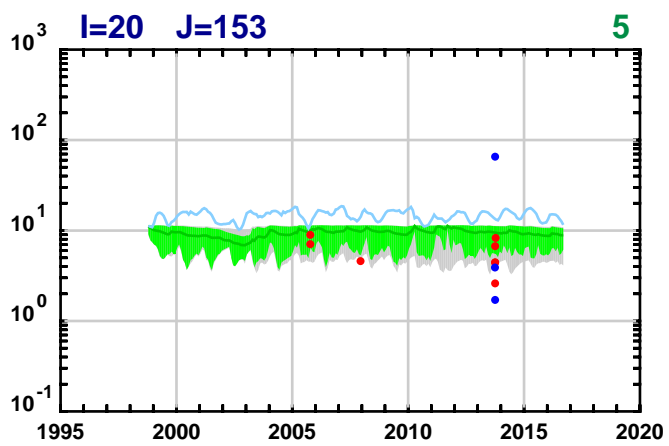
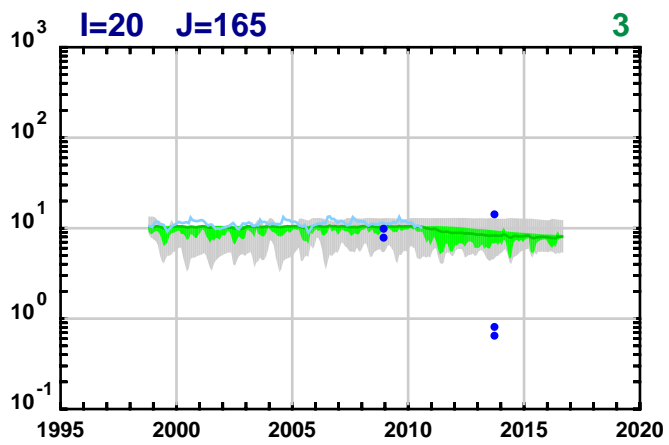
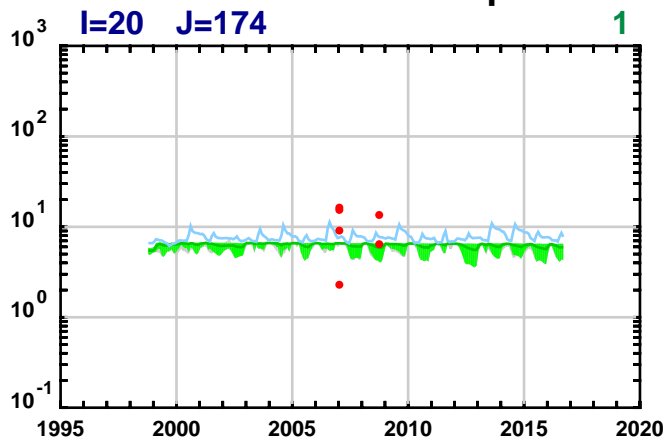
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

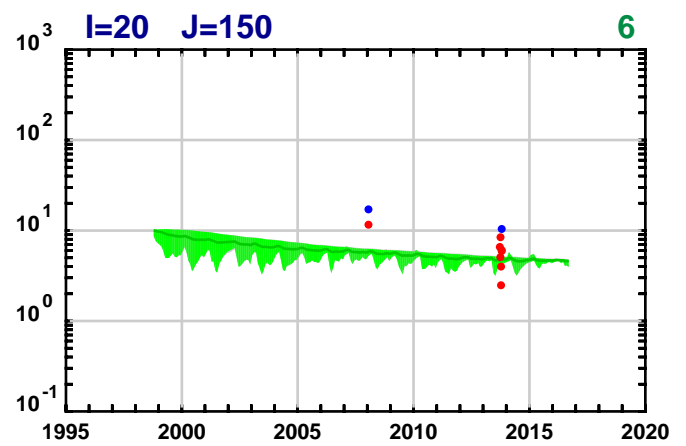
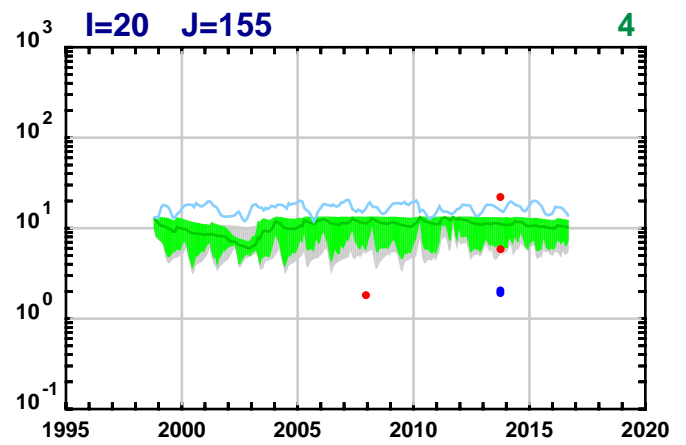
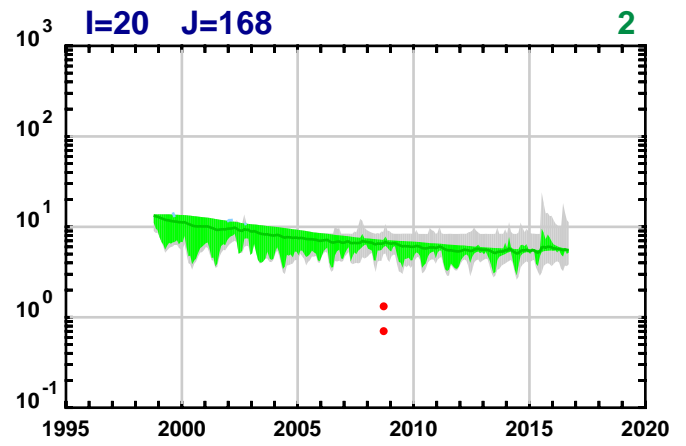
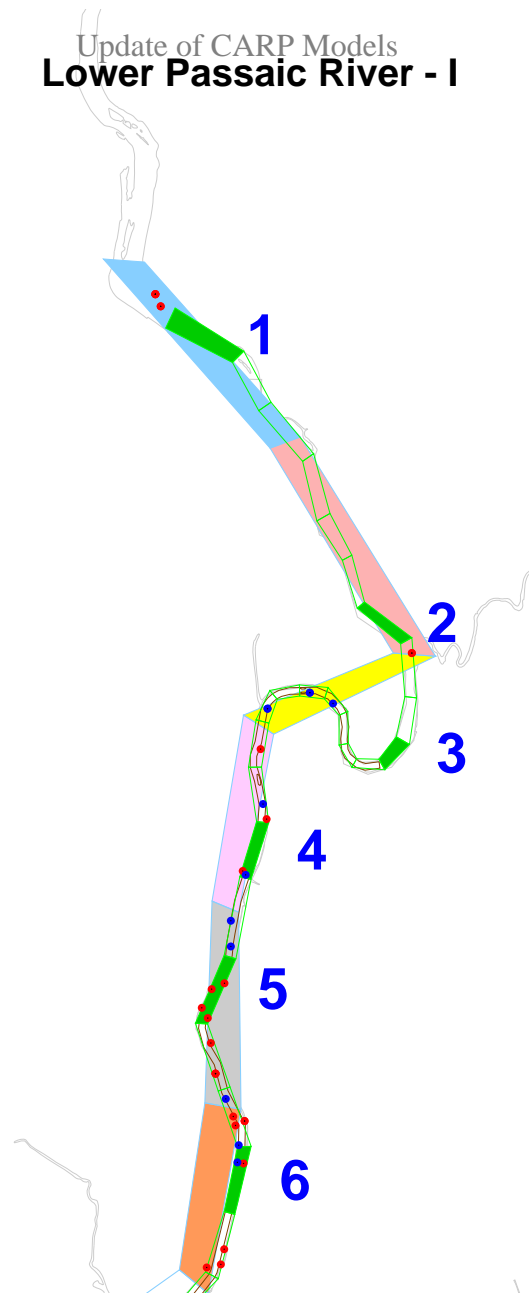
● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARS2 In-channel    ■ CARS2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,7,8-Pentachlorodibenzofuran ppt



## Update of CARP Models Lower Passaic River - I



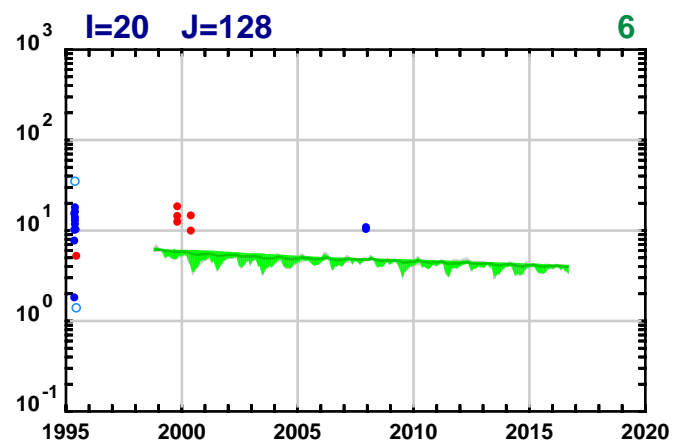
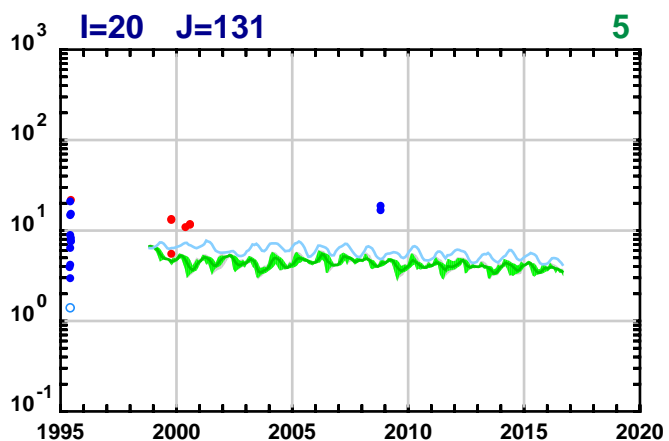
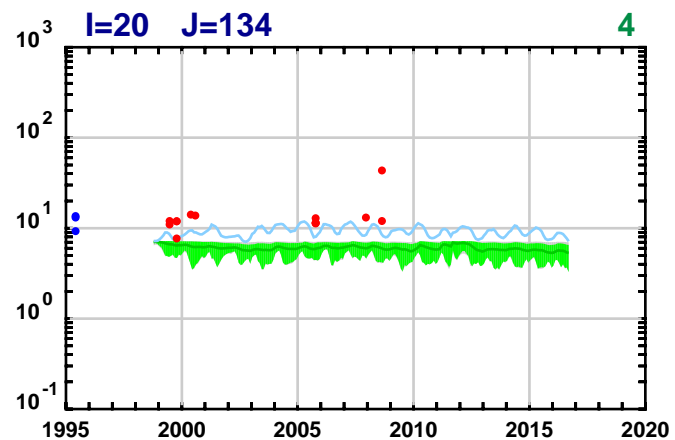
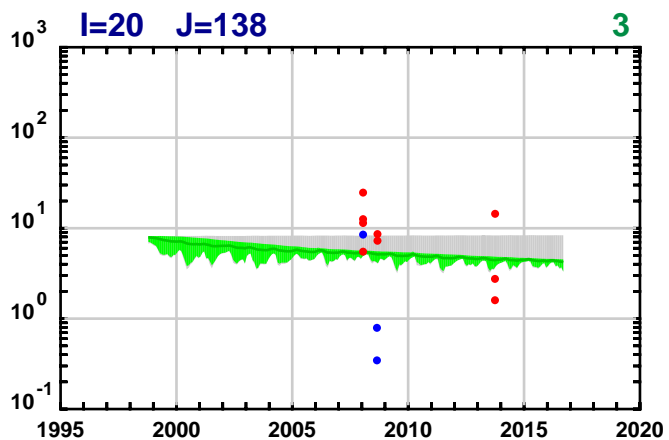
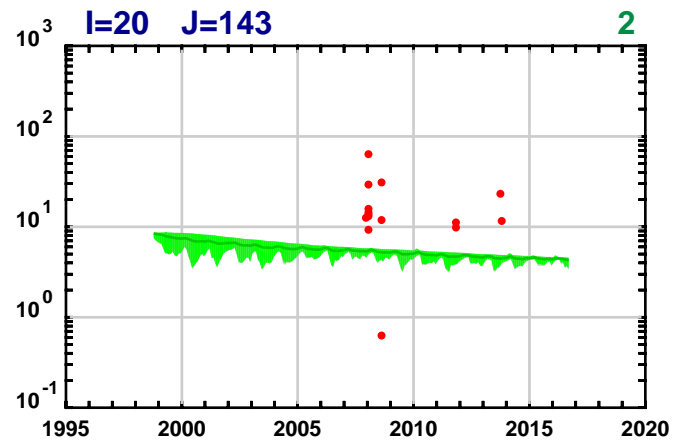
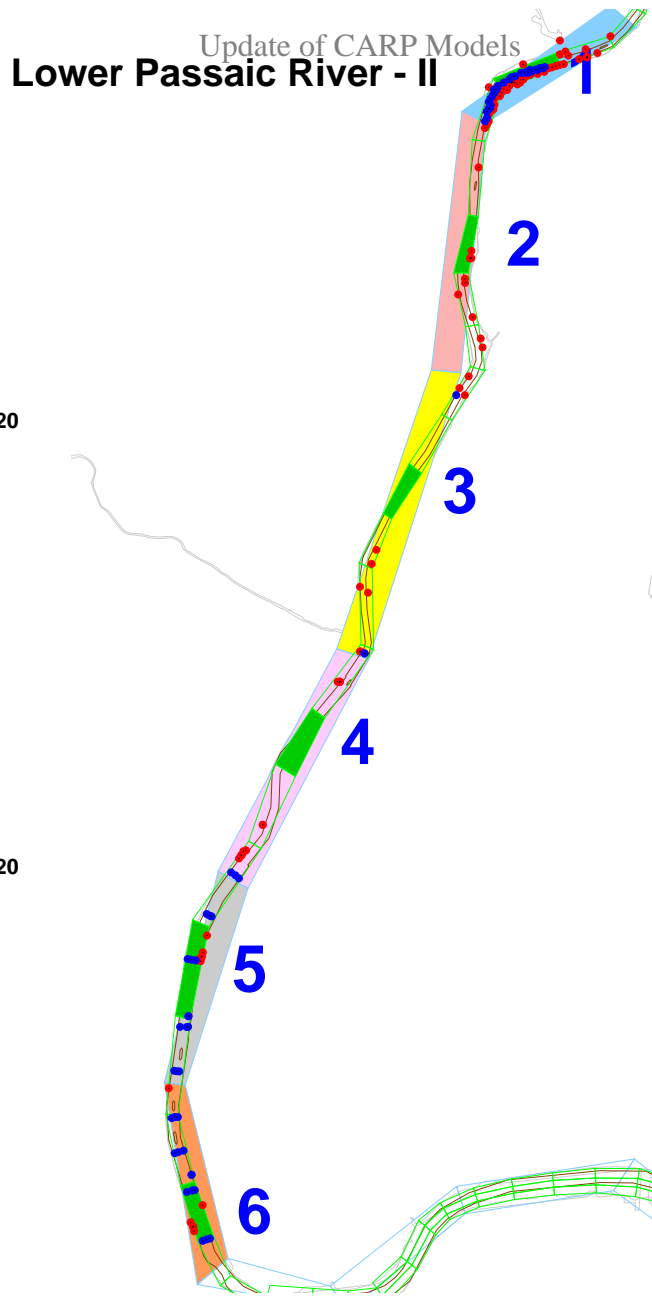
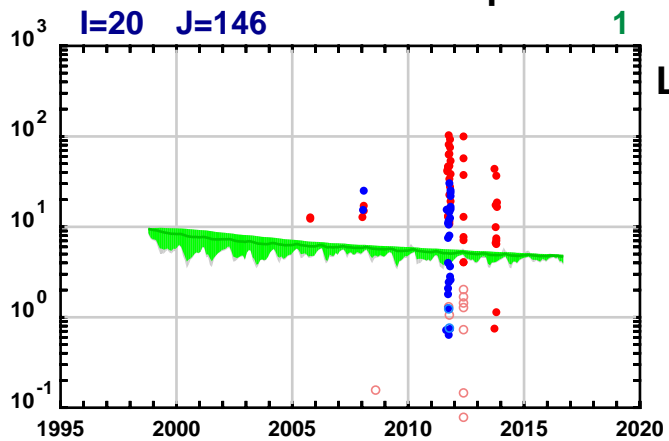
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,7,8-Pentachlorodibenzofuran ppt



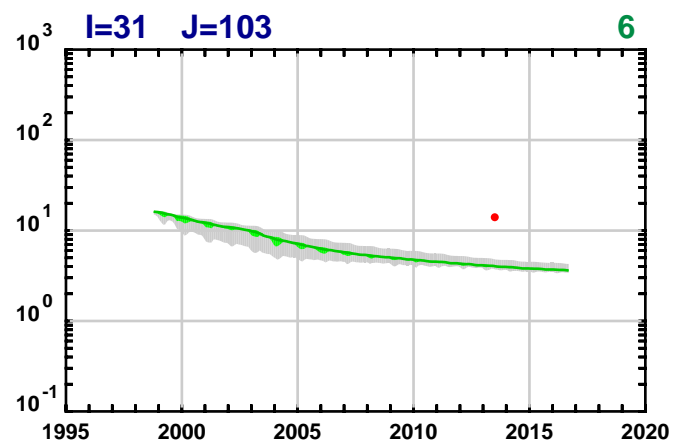
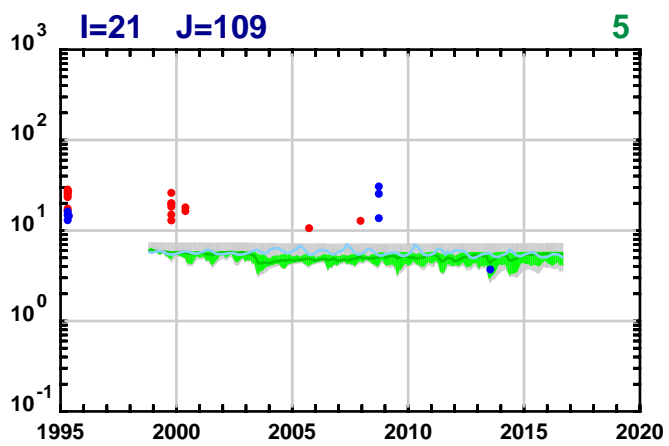
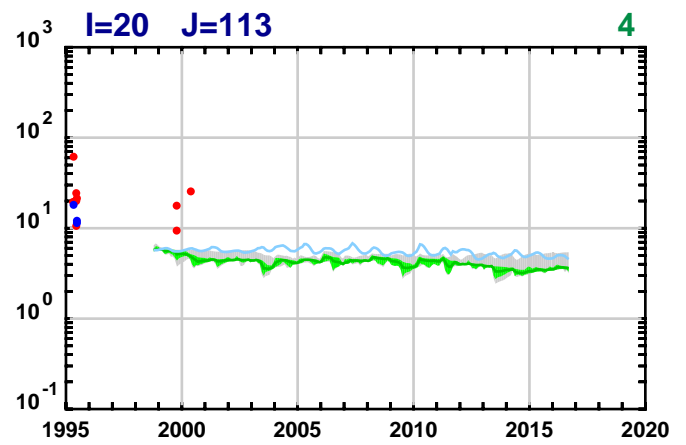
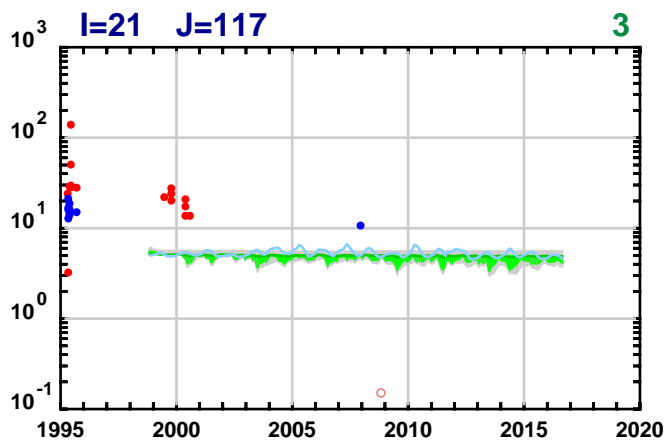
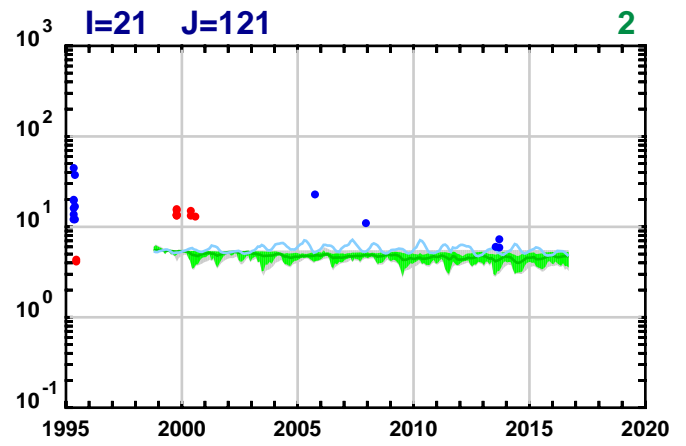
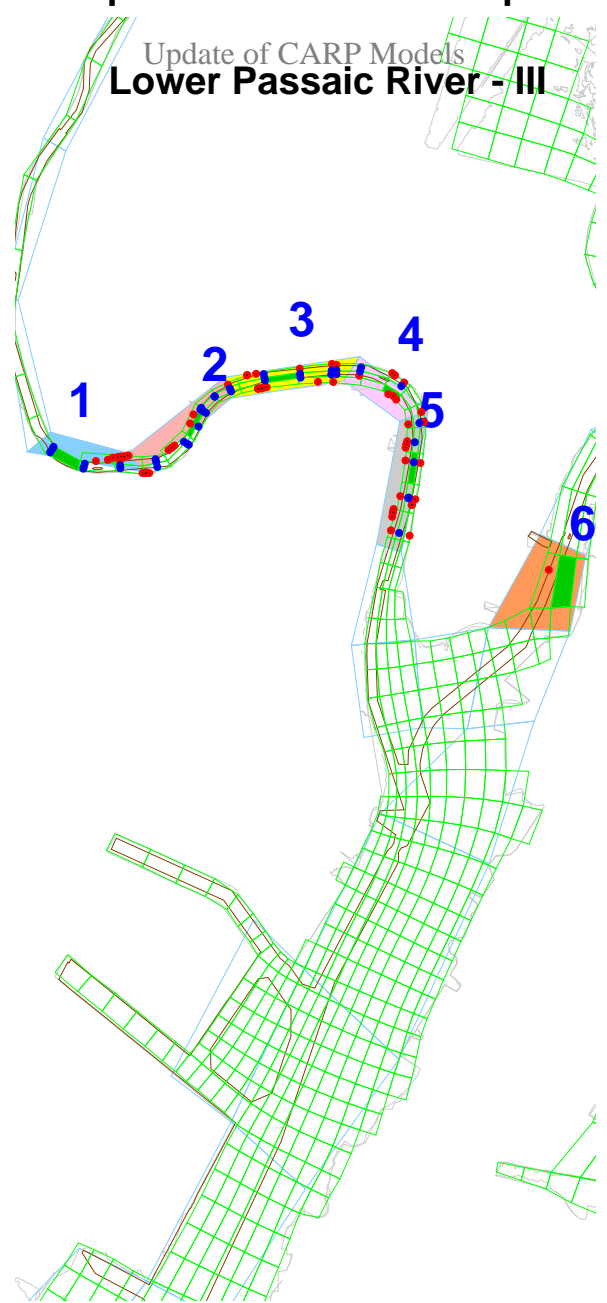
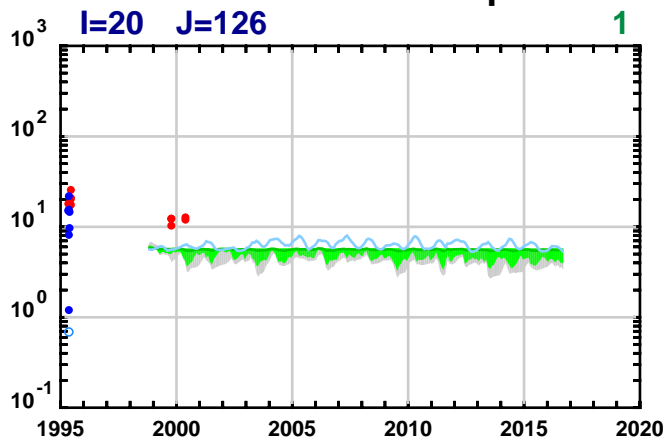
**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,7,8-Pentachlorodibenzofuran ppt



**RUN18\_S4\_R2**

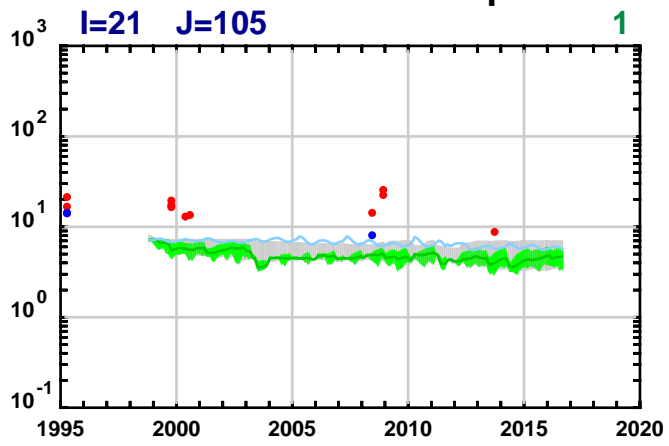
**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

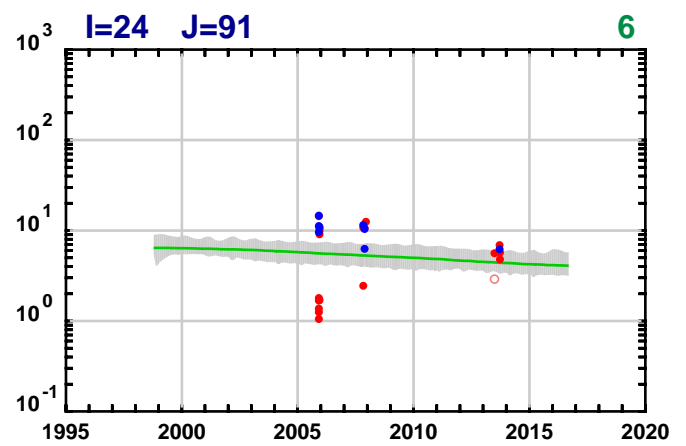
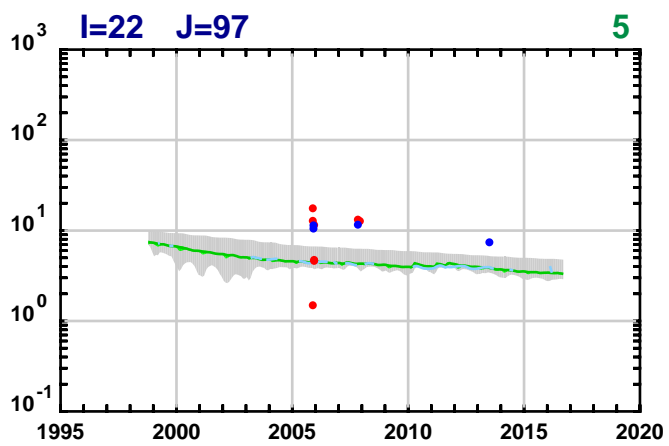
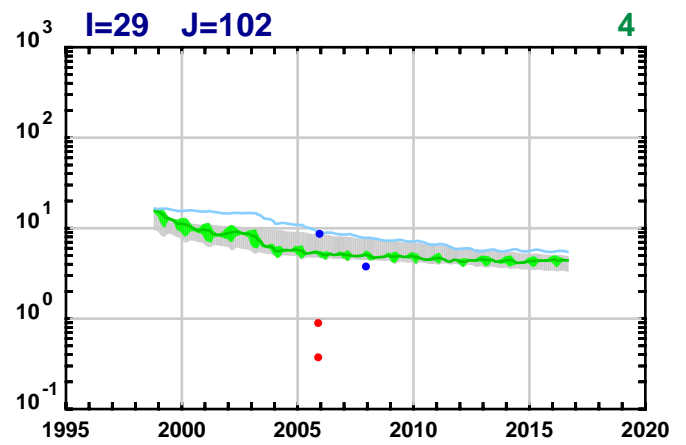
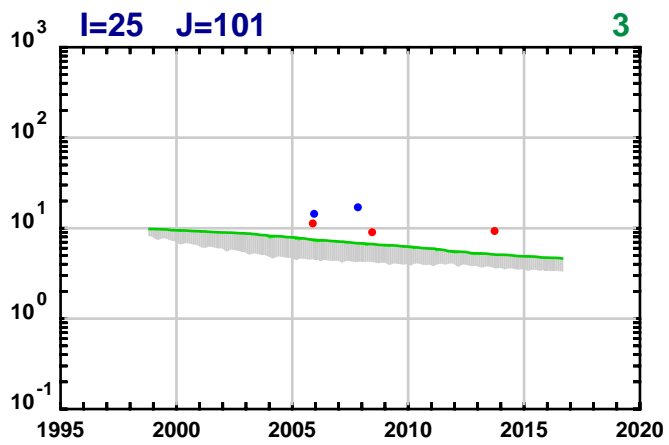
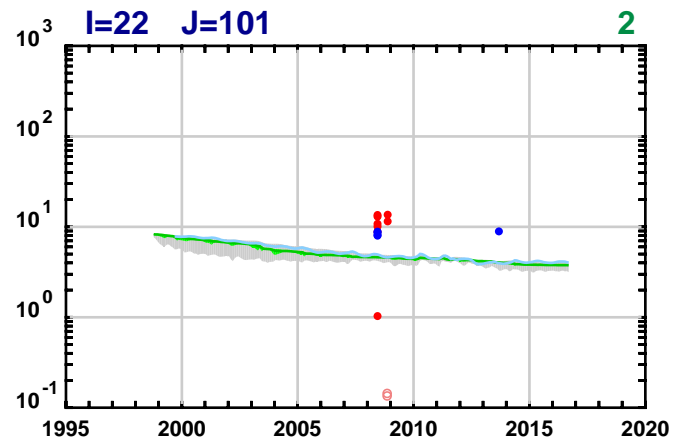
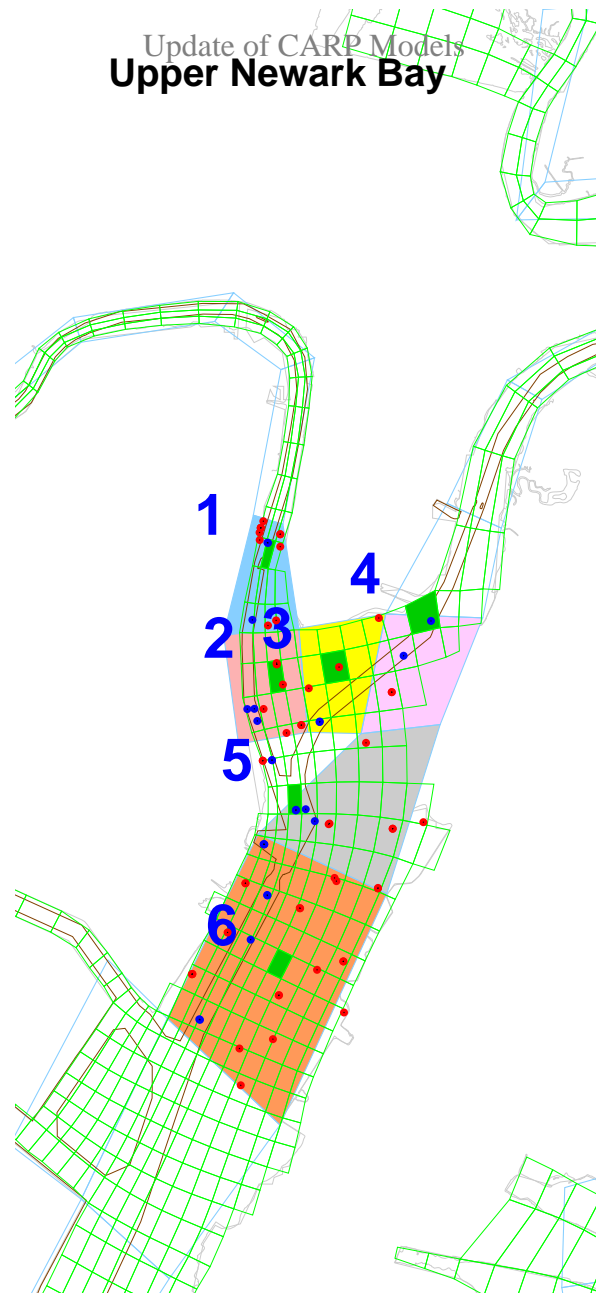


# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,7,8-Pentachlorodibenzofuran ppt



Update of CARP Models  
Upper Newark Bay



**RUN18\_S4\_R2**

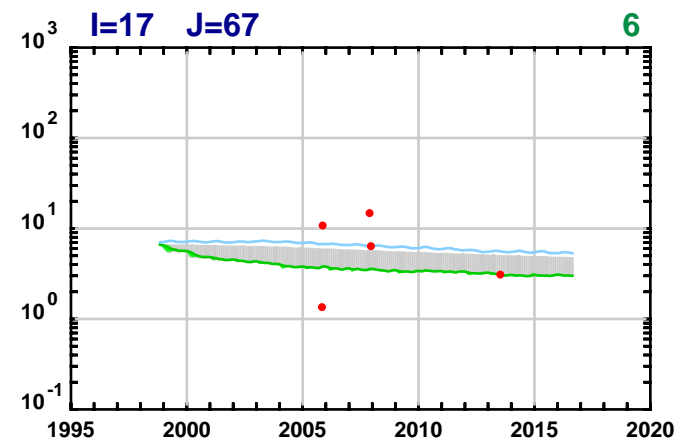
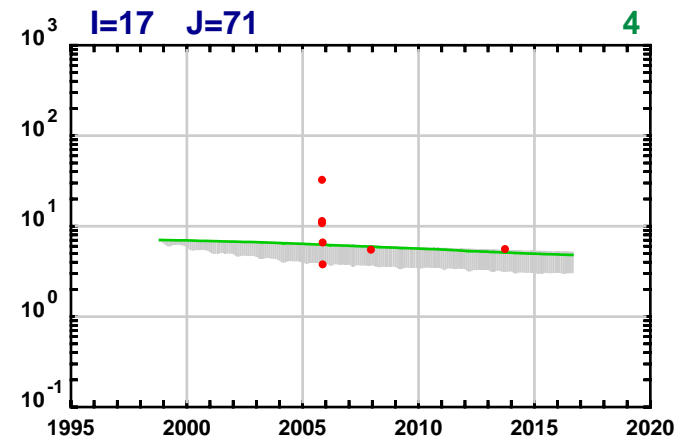
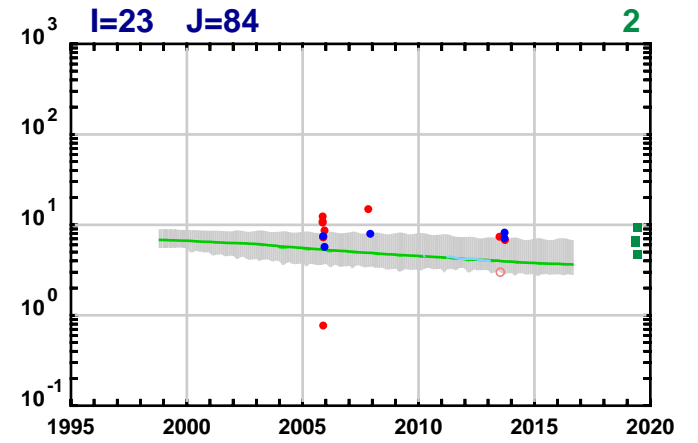
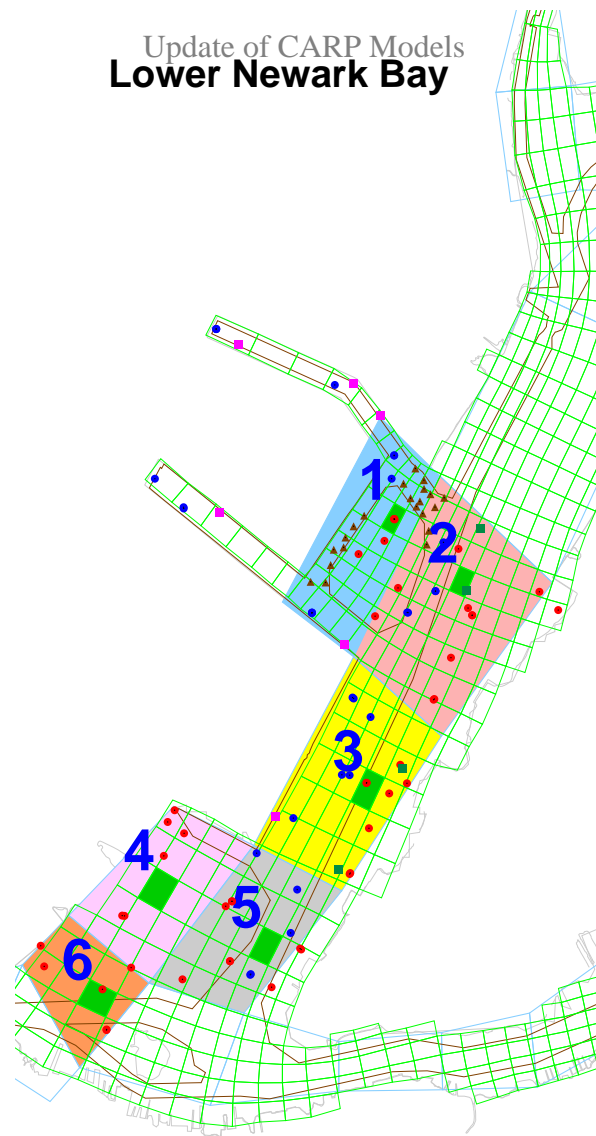
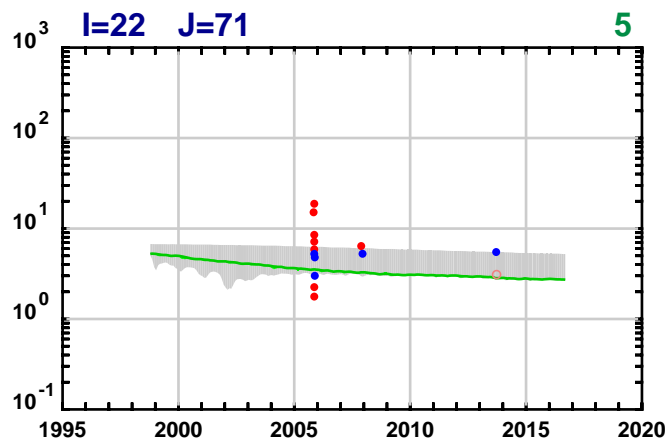
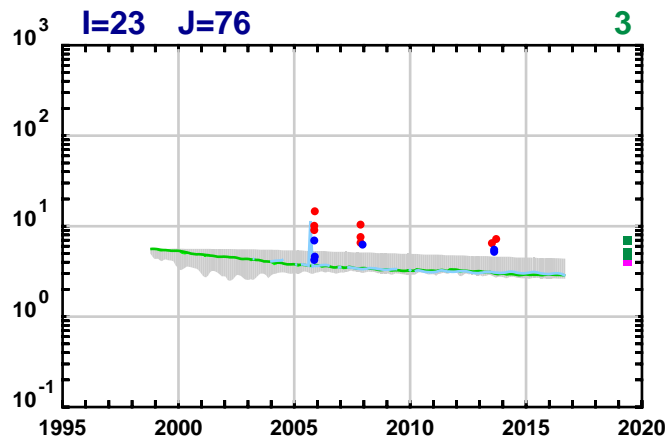
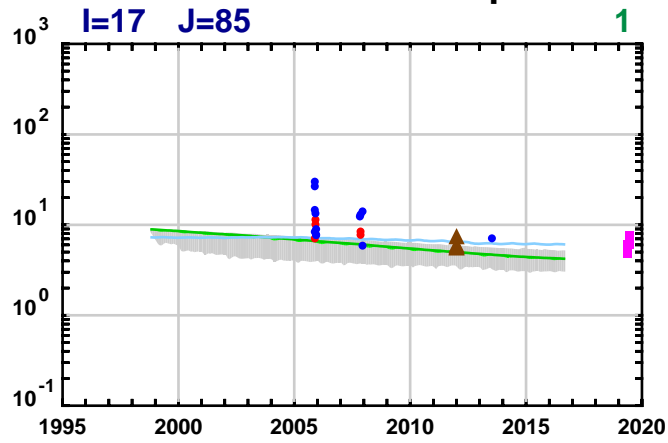
**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,7,8-Pentachlorodibenzofuran ppt



Update of CARP Models  
Lower Newark Bay

RUN18\_S4\_R2

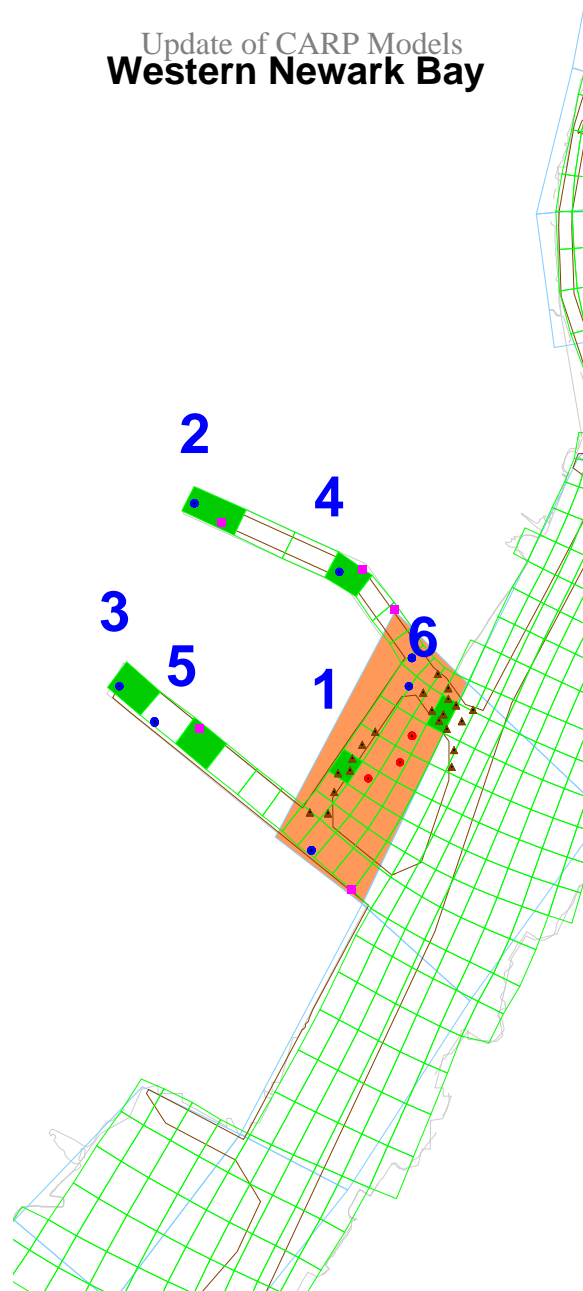
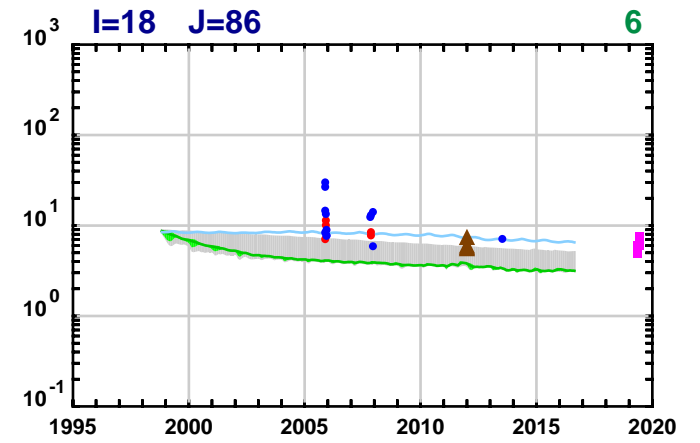
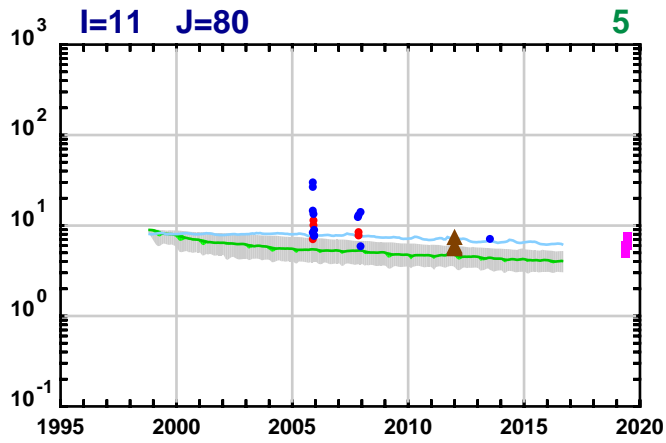
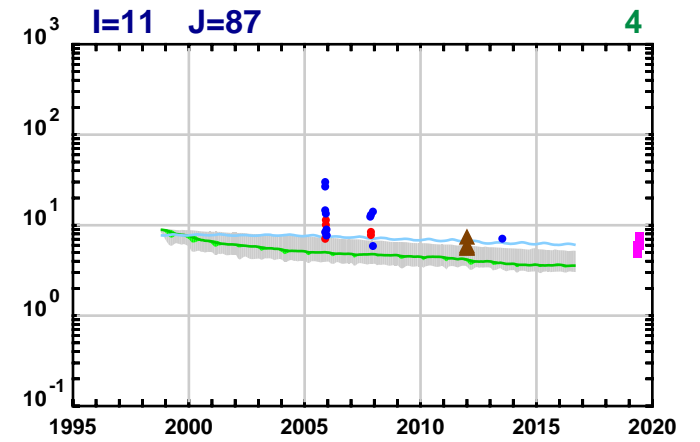
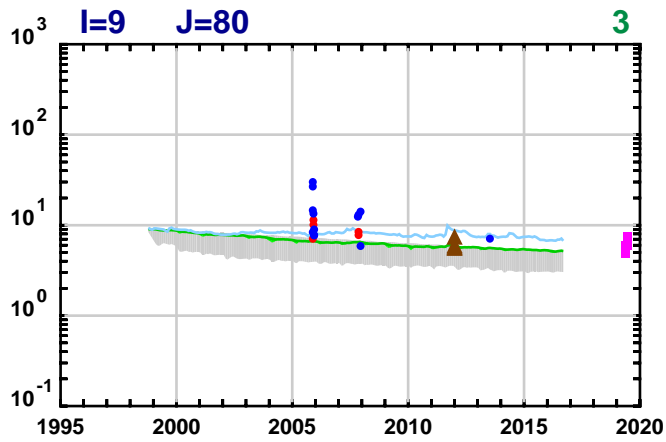
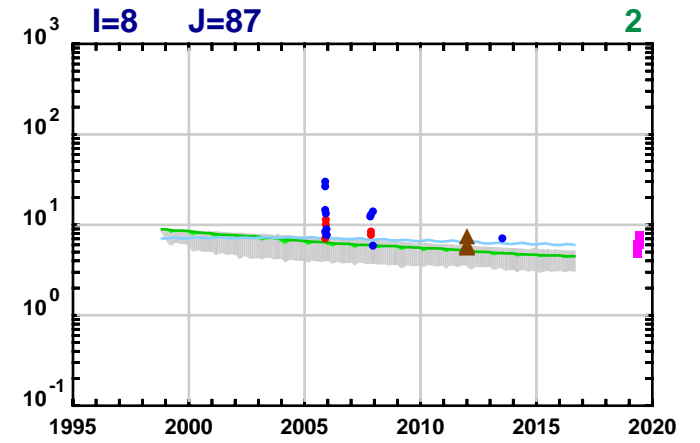
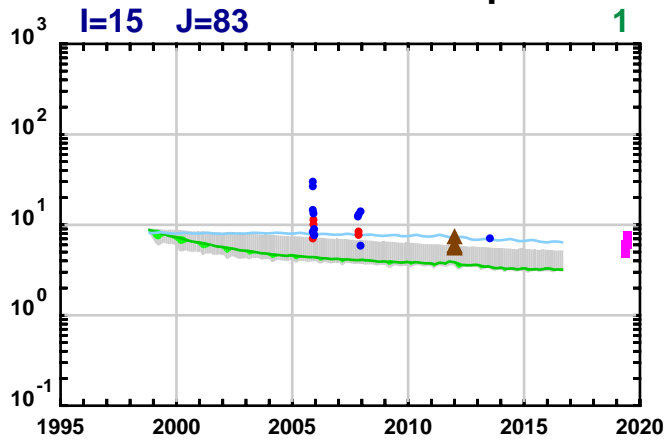
Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay

1,2,3,7,8-Pentachlorodibenzofuran ppt



**RUN18\_S4\_R2**

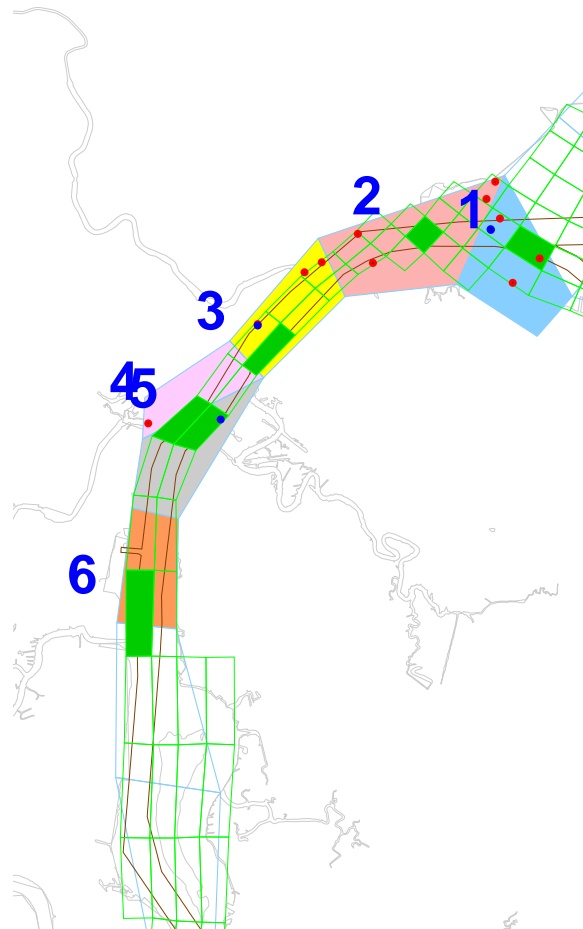
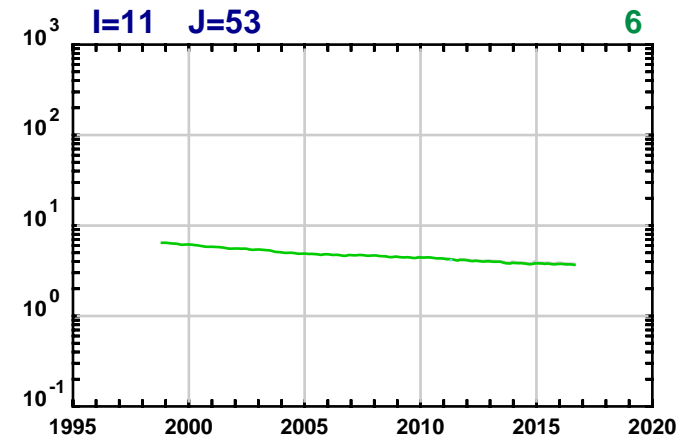
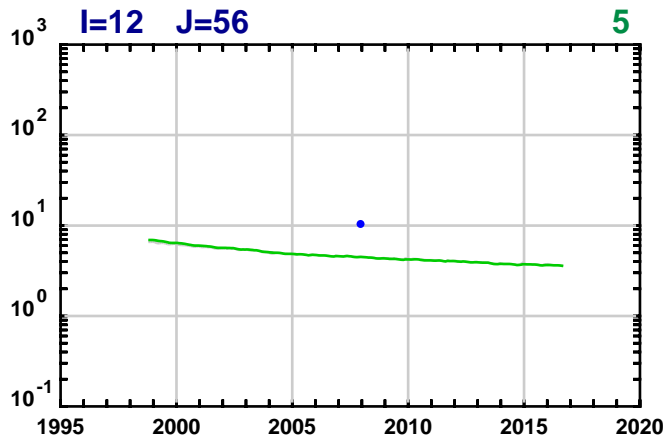
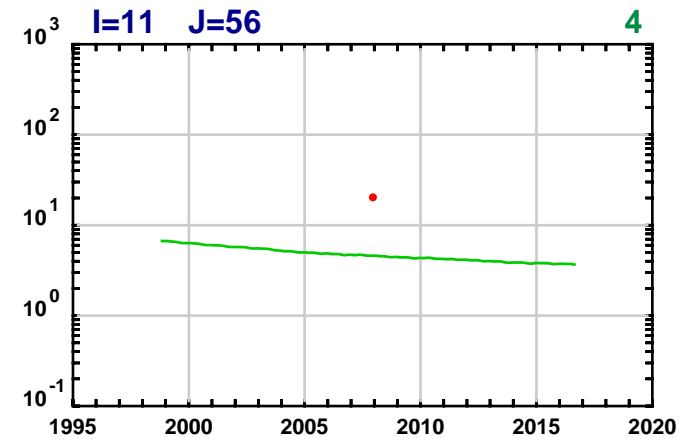
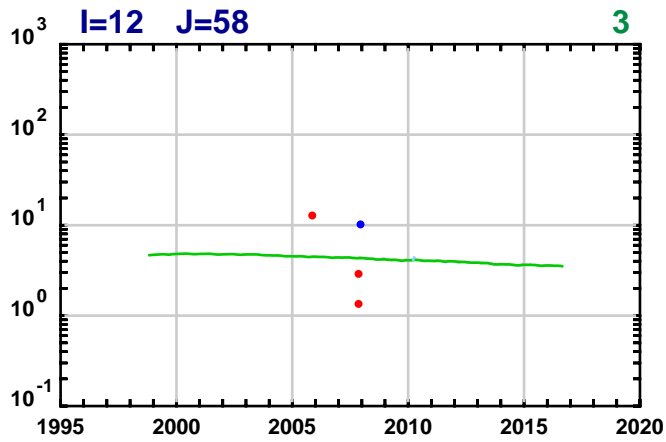
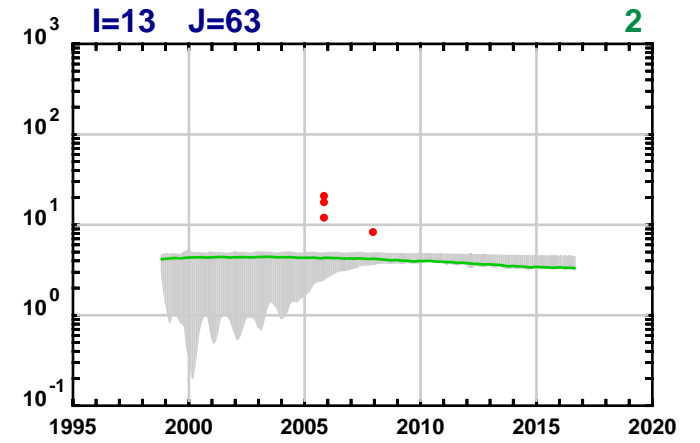
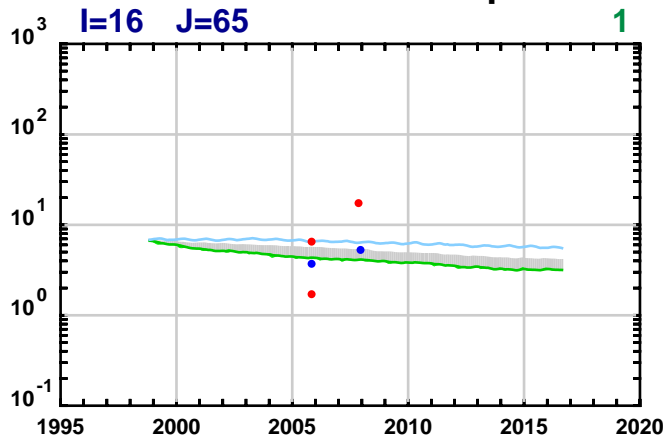
**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

1,2,3,7,8-Pentachlorodibenzofuran ppt



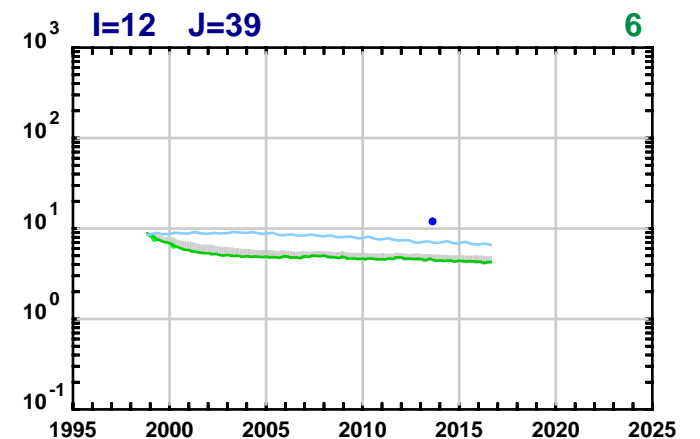
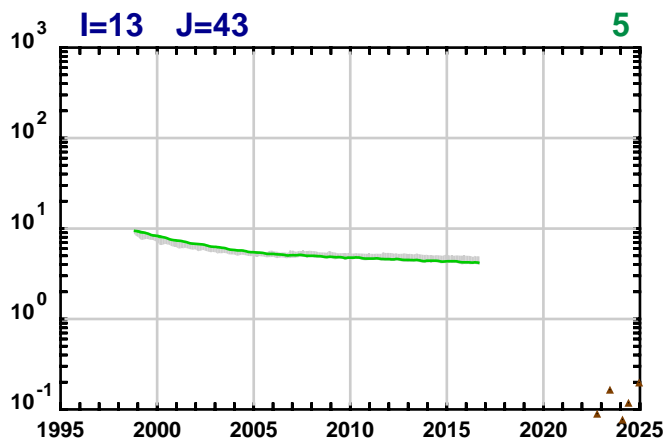
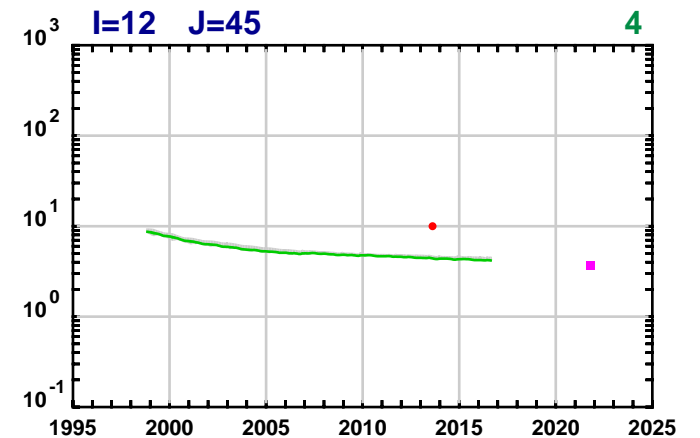
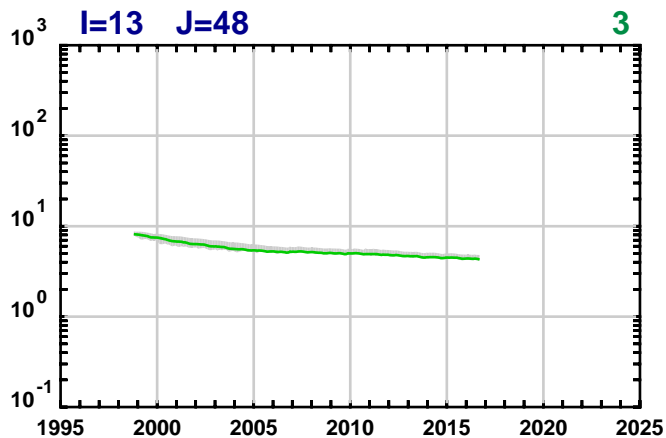
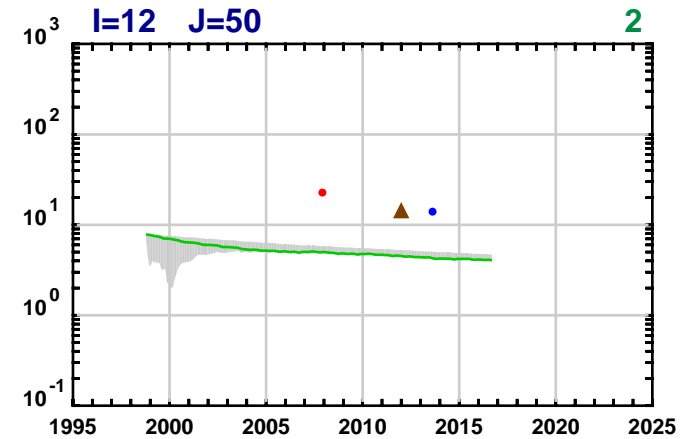
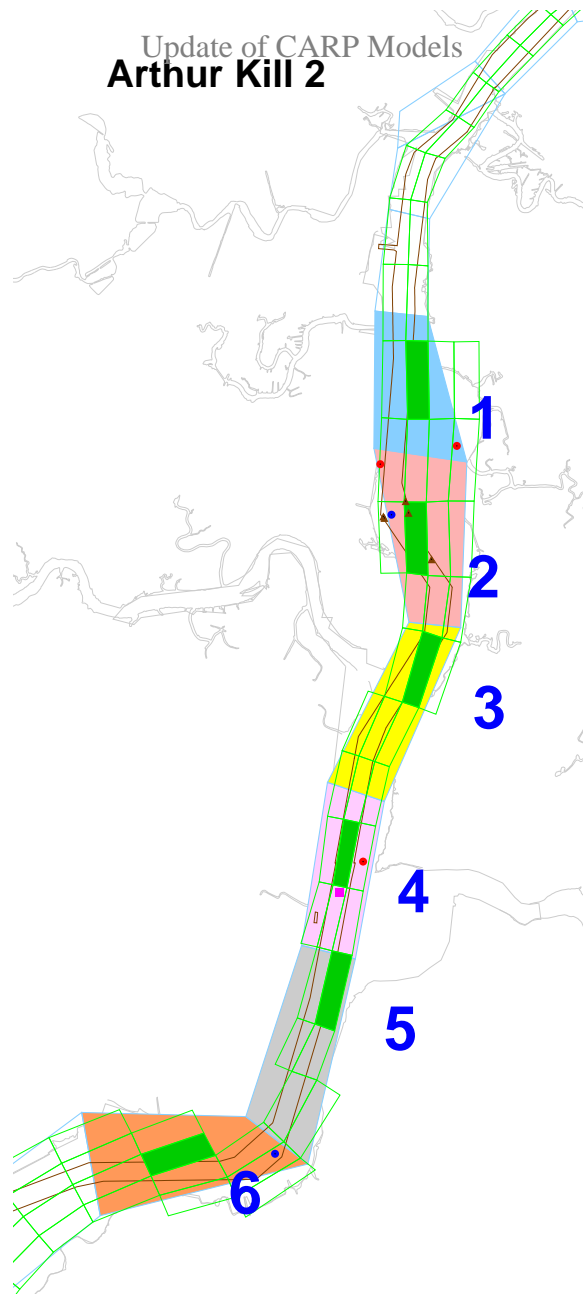
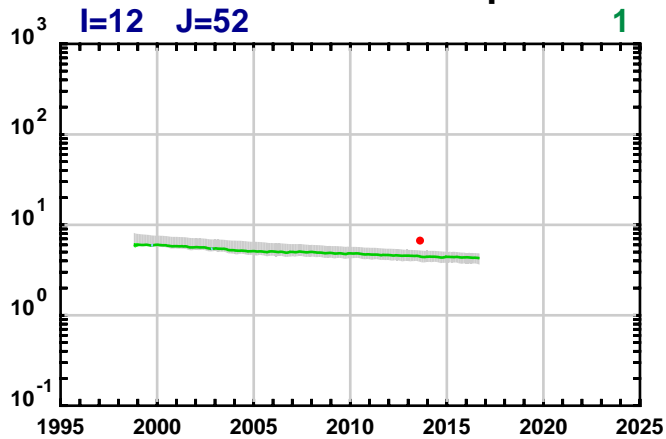
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,7,8-Pentachlorodibenzofuran ppt



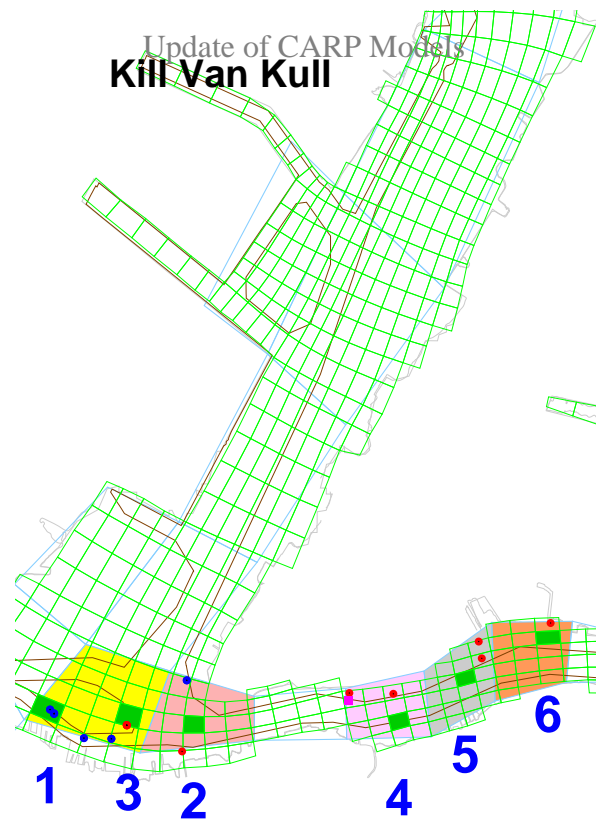
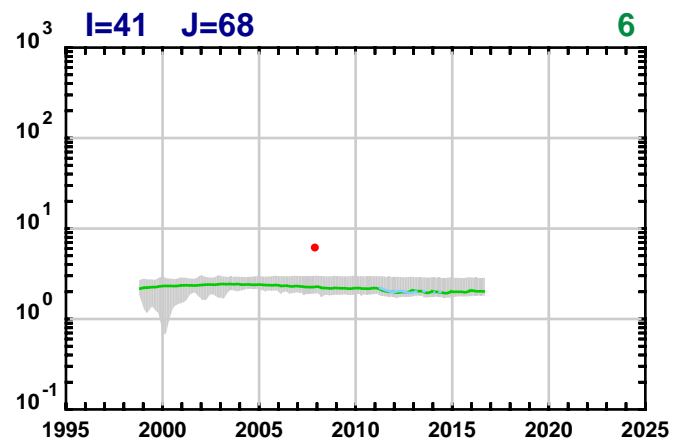
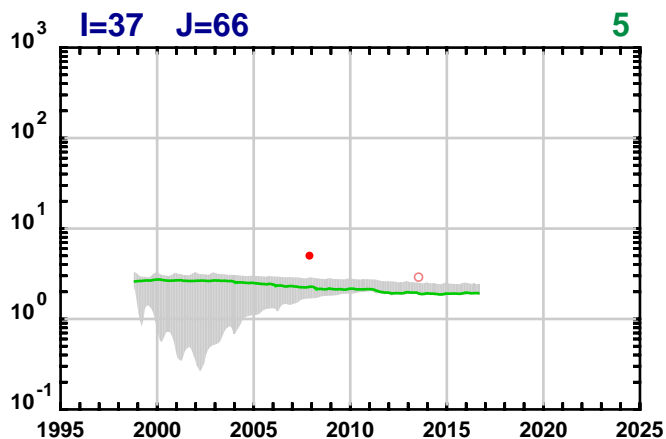
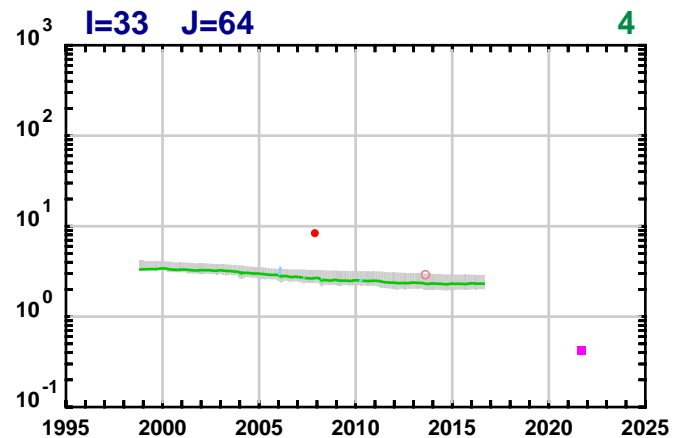
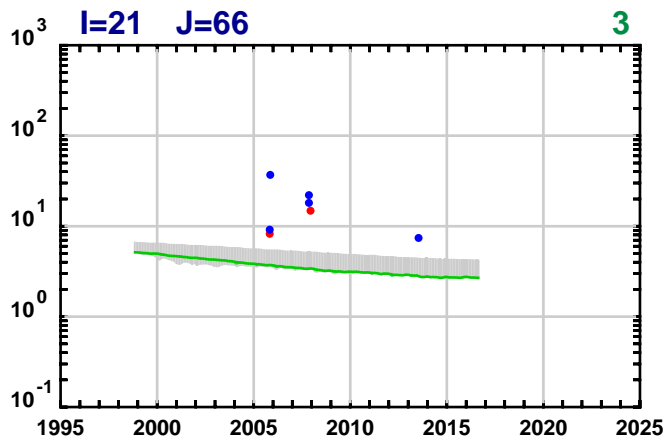
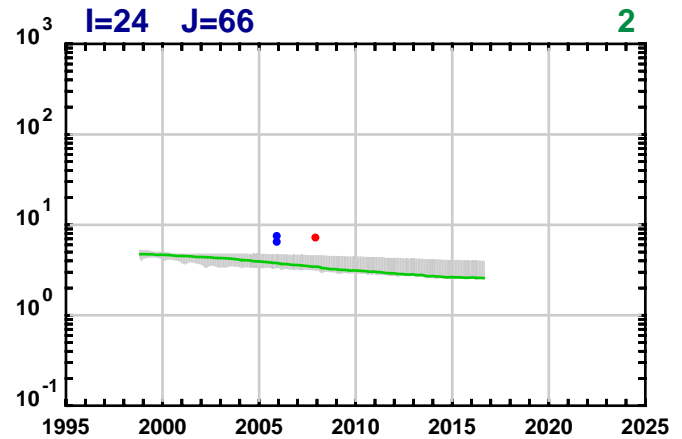
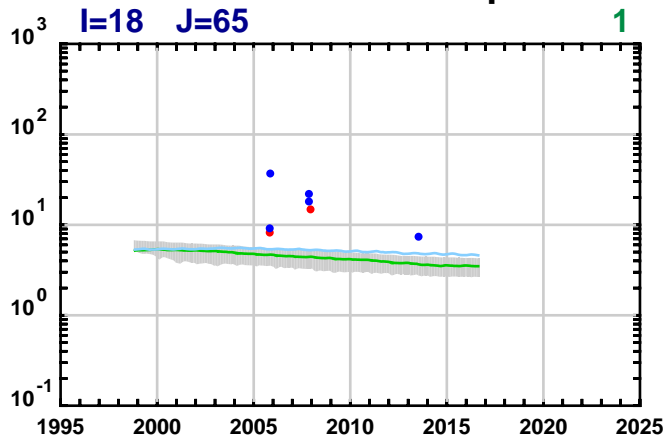
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,7,8-Pentachlorodibenzofuran ppt



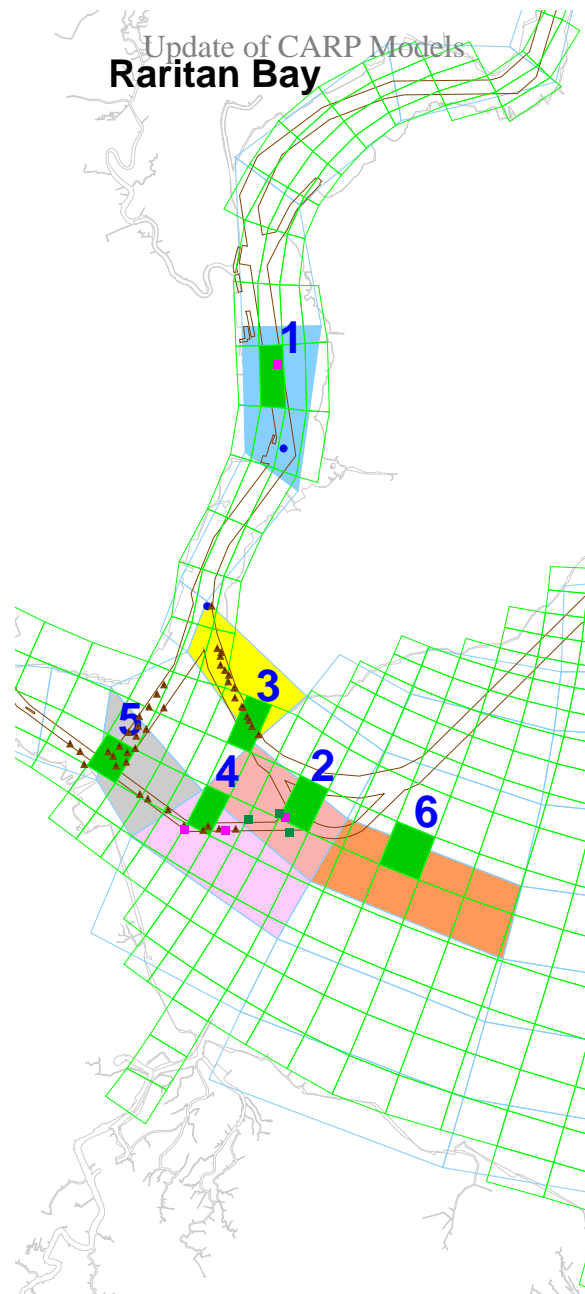
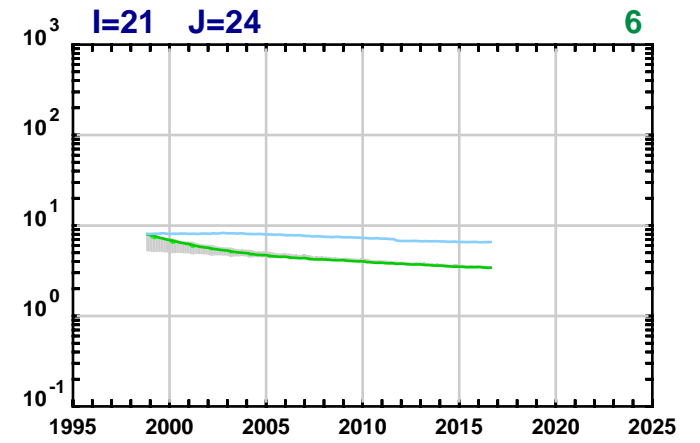
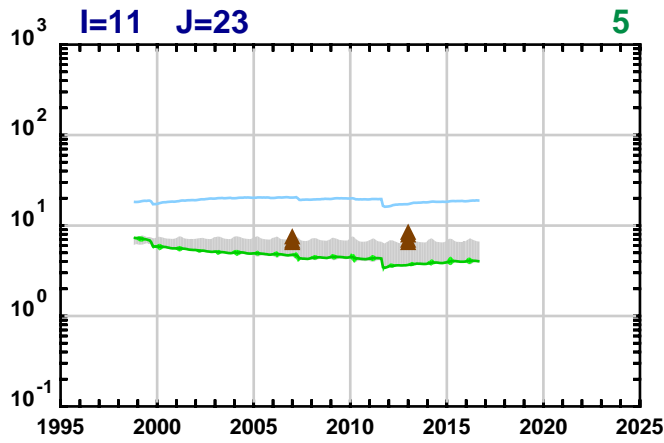
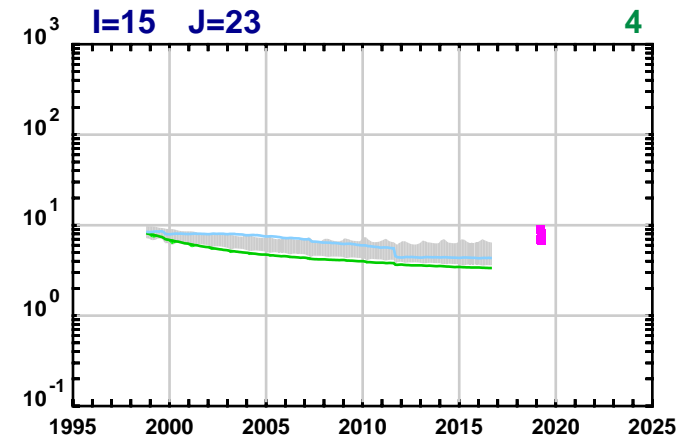
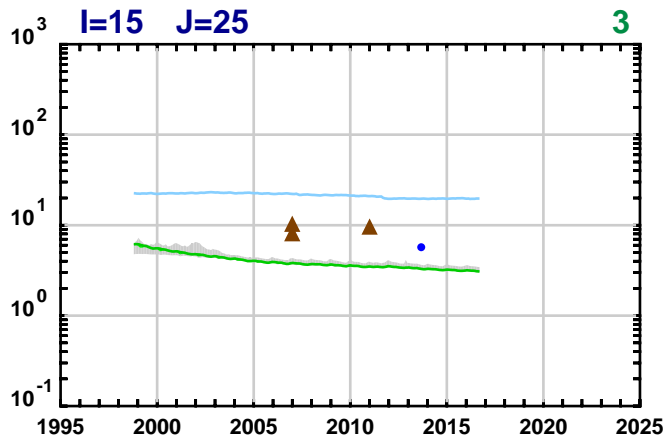
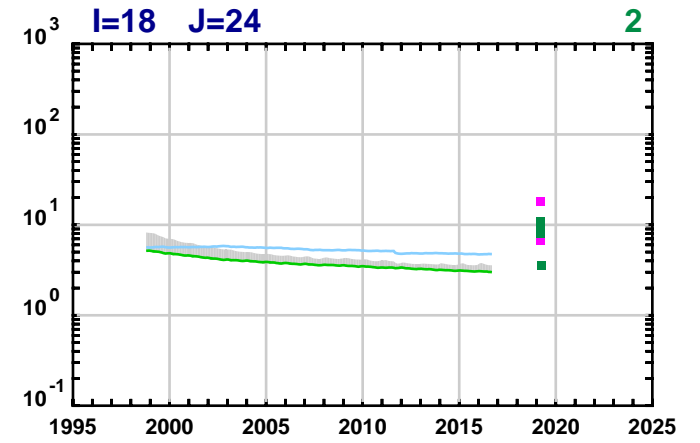
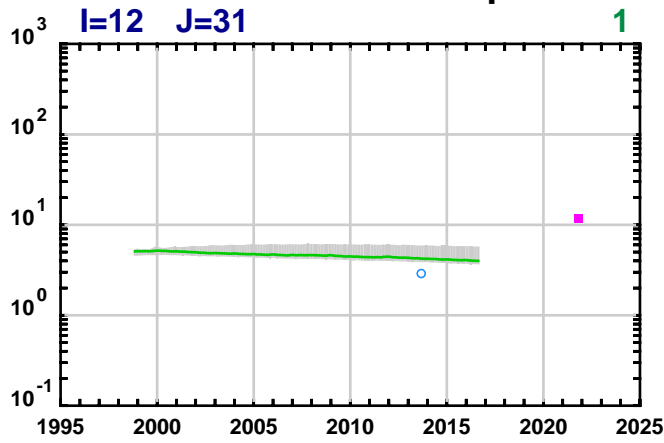
**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,7,8-Pentachlorodibenzofuran ppt



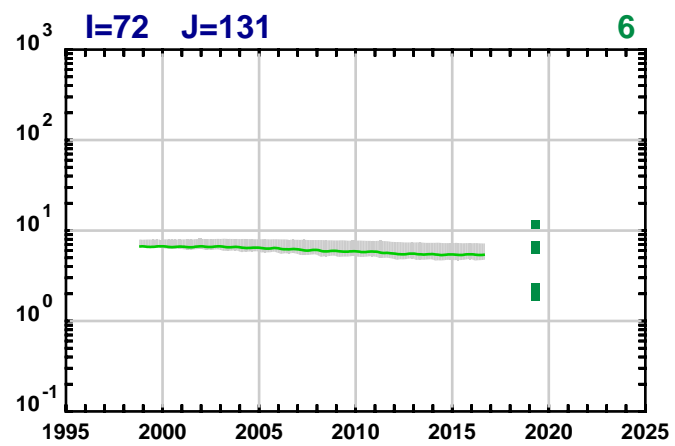
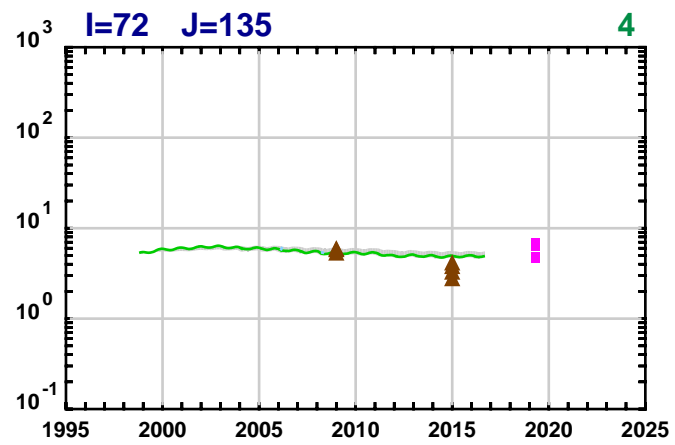
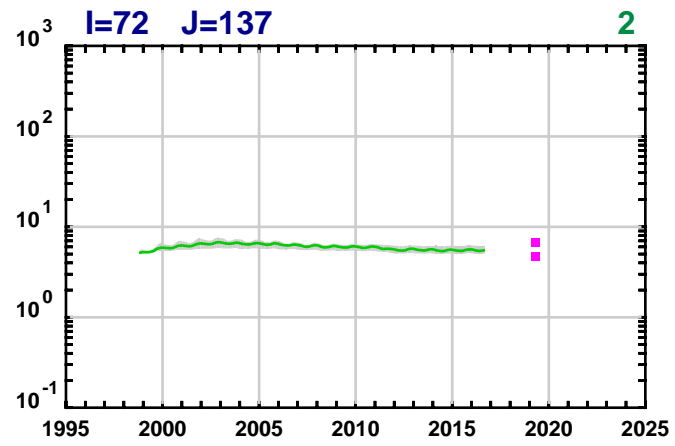
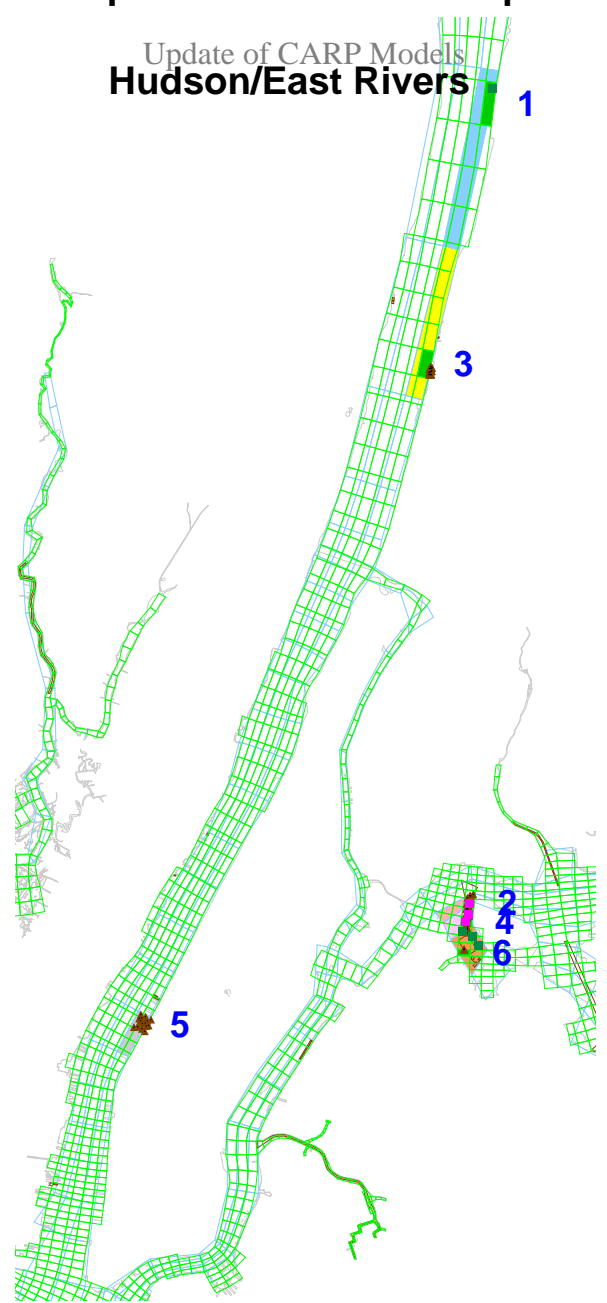
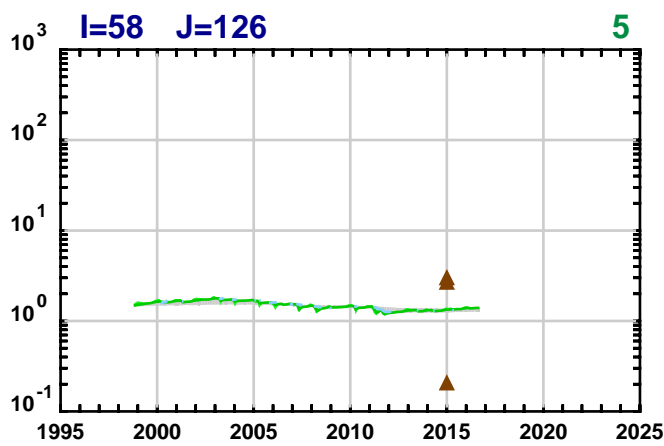
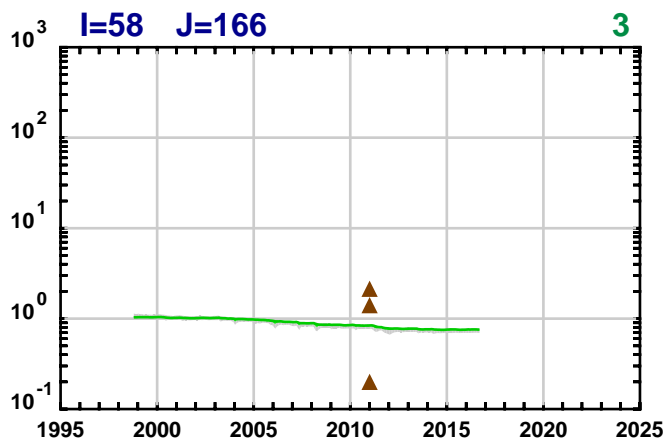
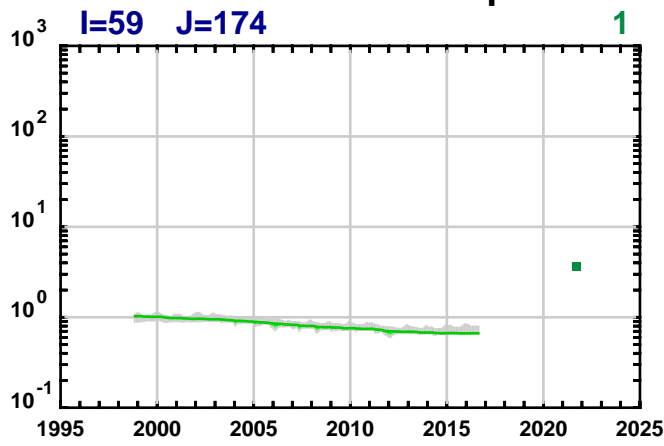
**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data ● Off-channel data ▲ Dredge data**  
**■ CARP2 In-channel ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,7,8-Pentachlorodibenzofuran ppt



RUN18\_S4\_R2

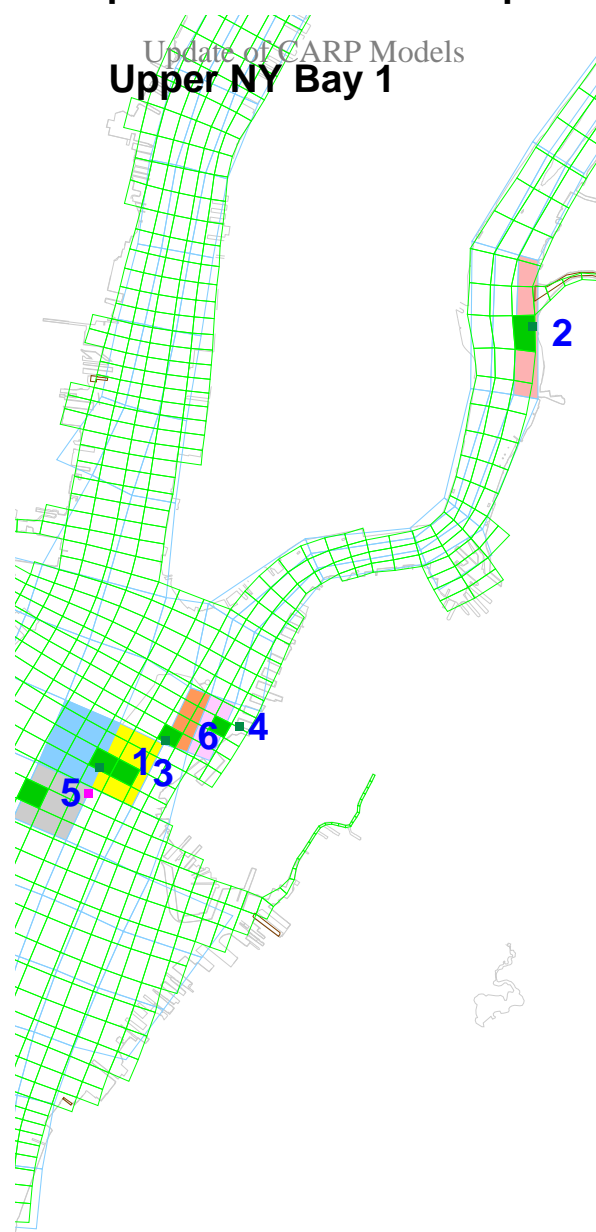
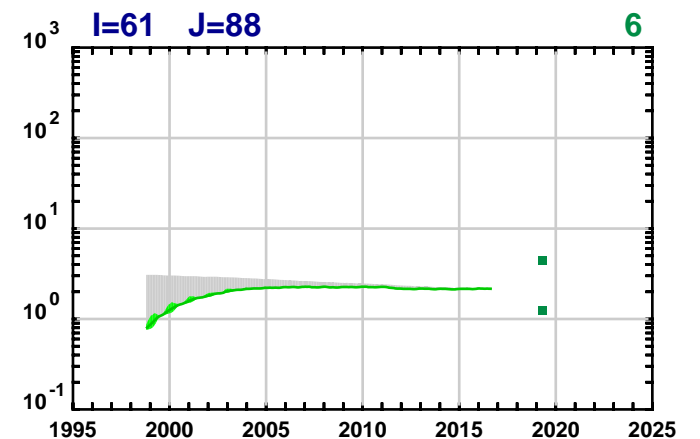
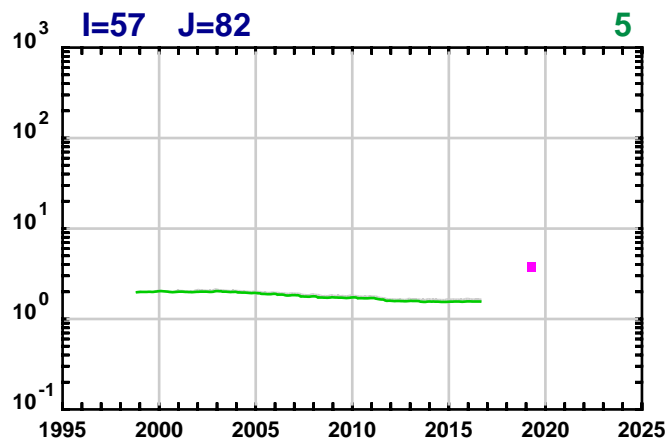
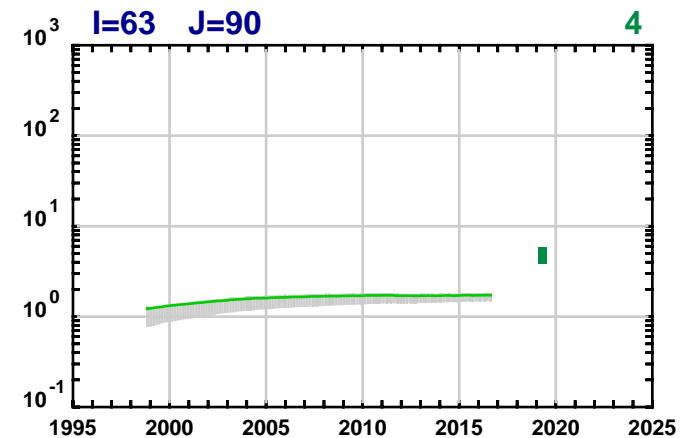
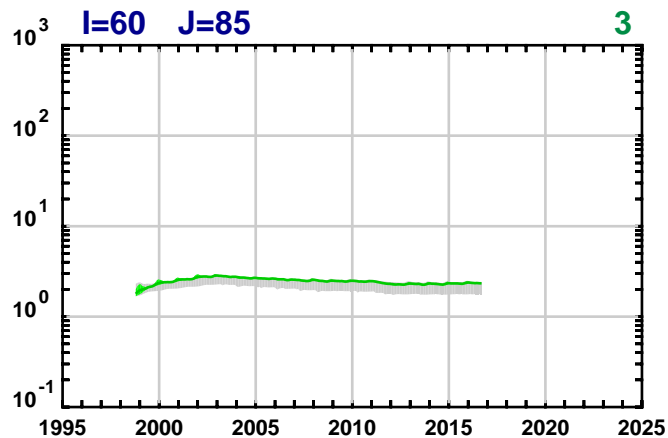
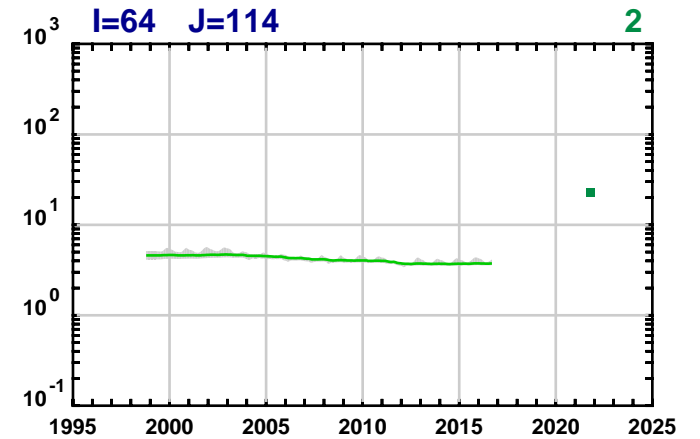
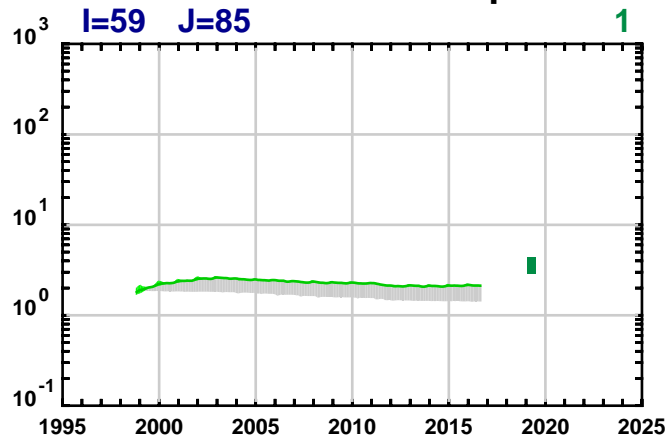
Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,7,8-Pentachlorodibenzofuran ppt



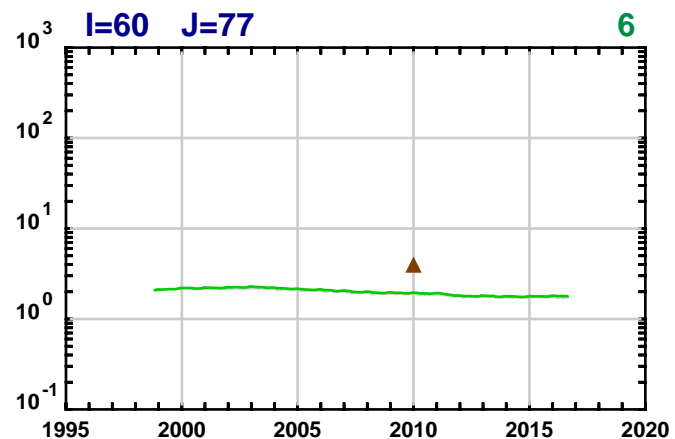
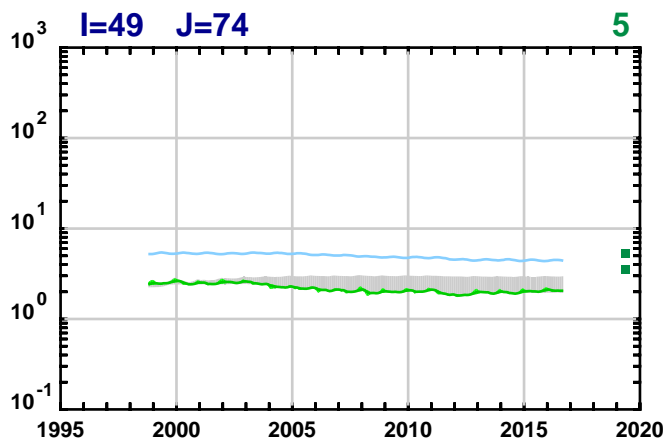
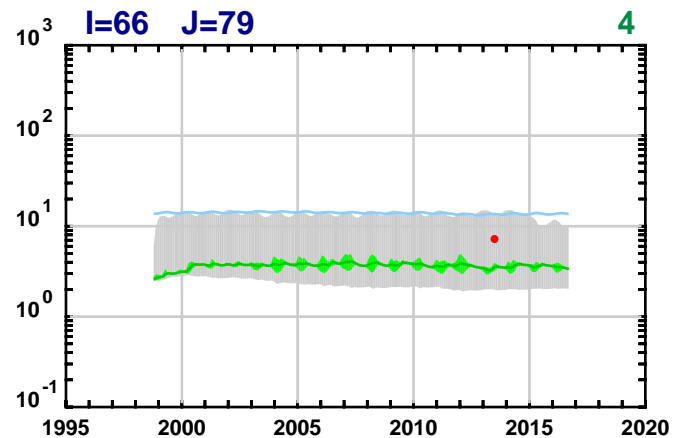
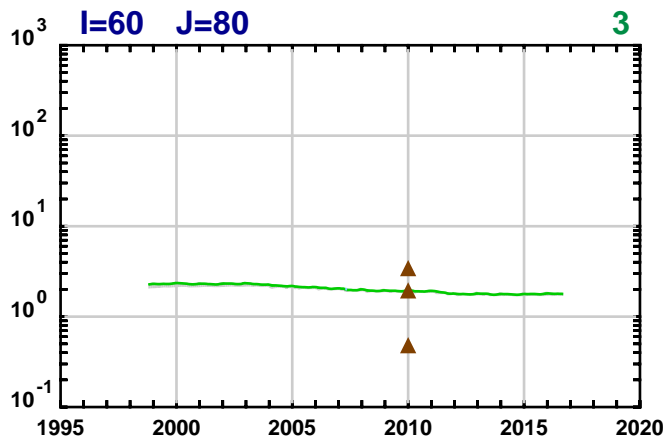
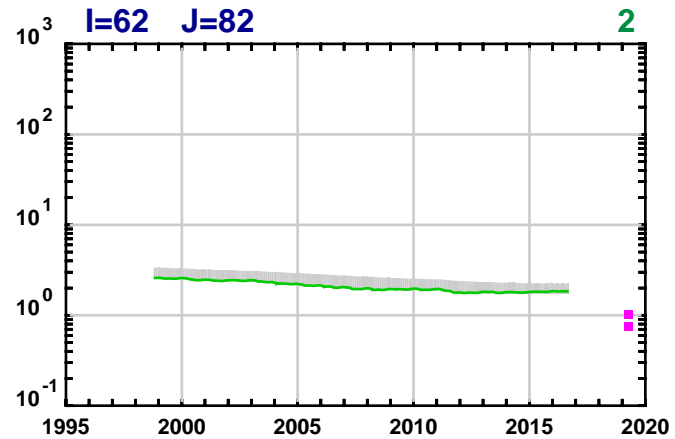
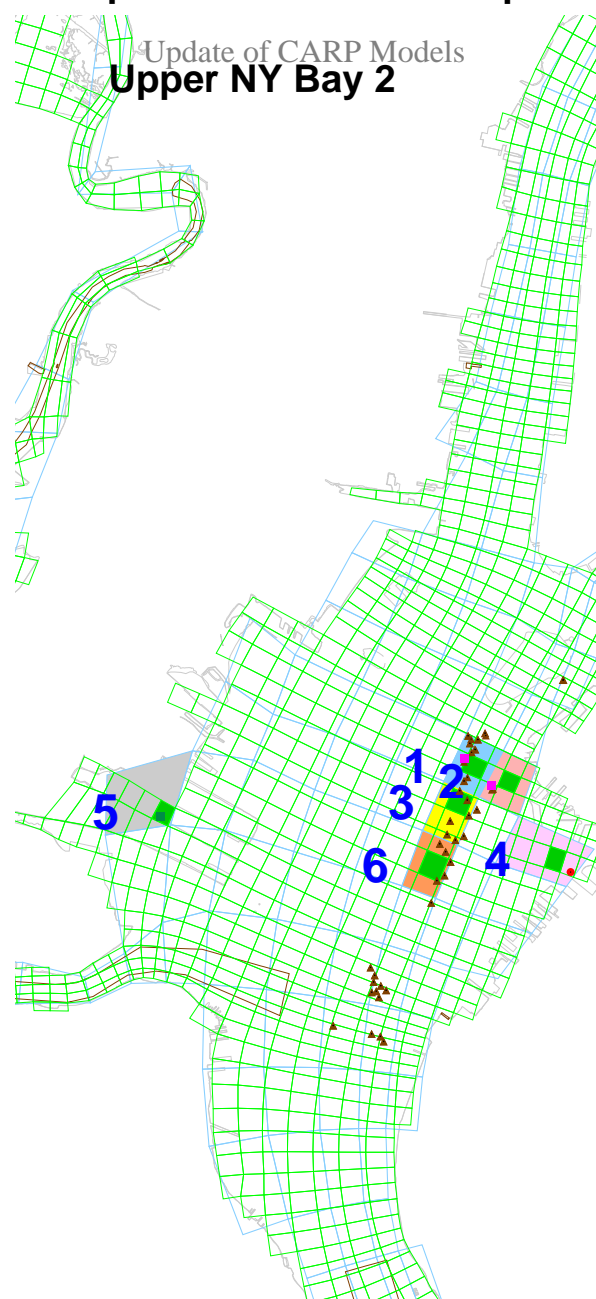
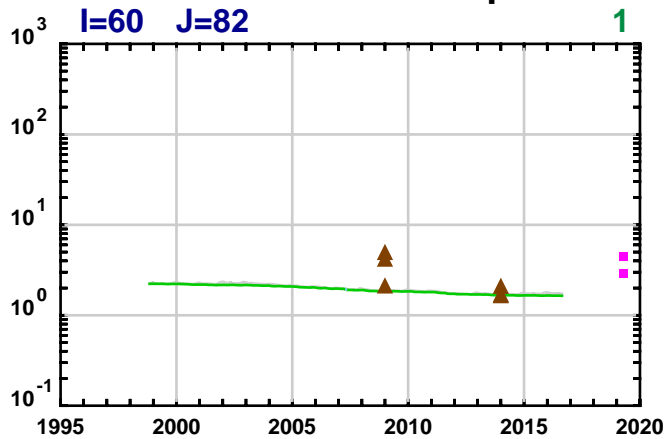
**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● **In-channel data** ● **Off-channel data** ▲ **Dredge data**  
 ■ **CARP2 In-channel** ■ **CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,7,8-Pentachlorodibenzofuran ppt



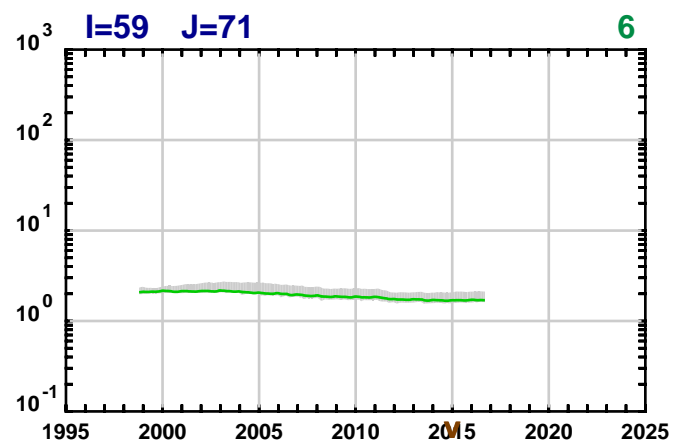
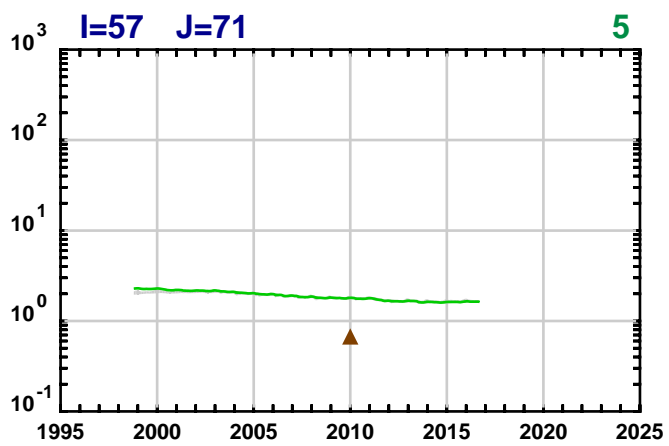
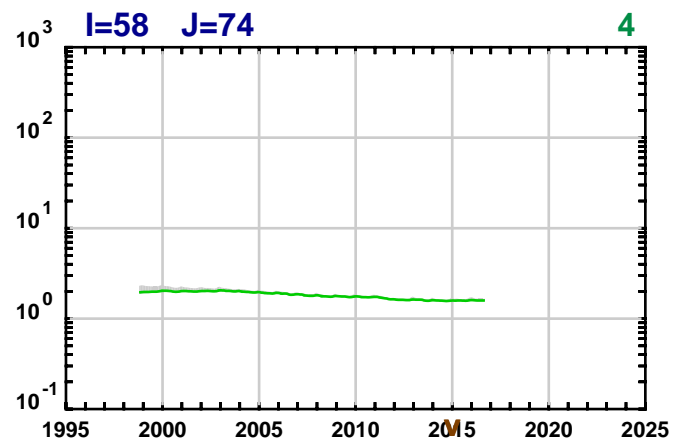
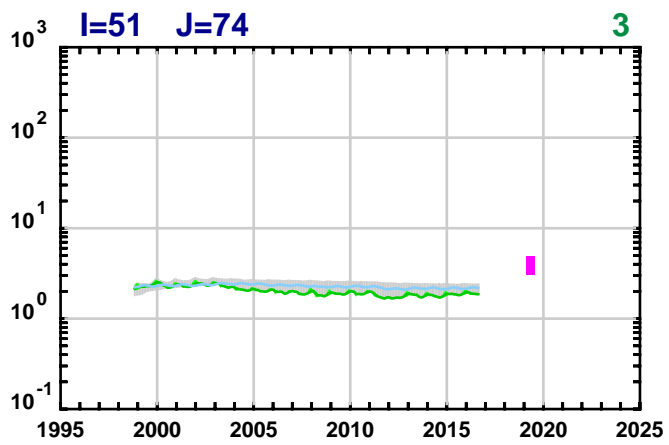
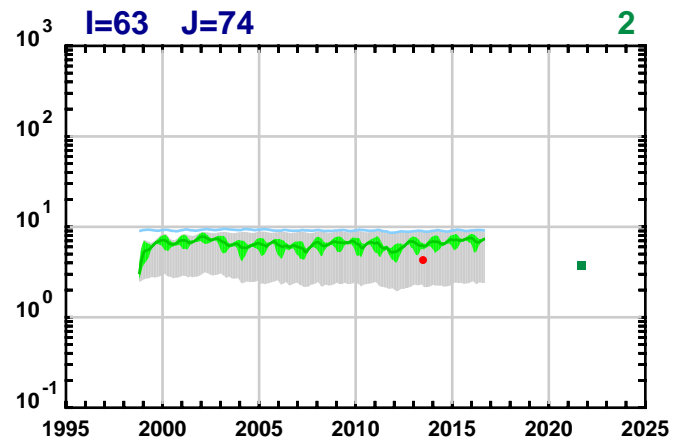
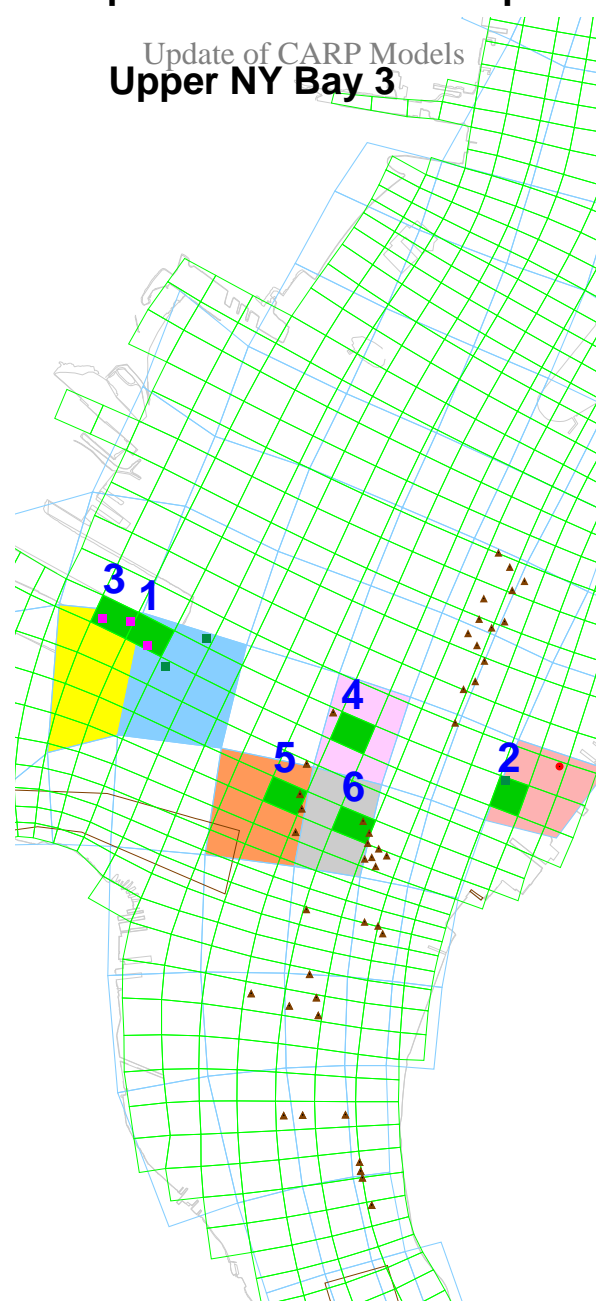
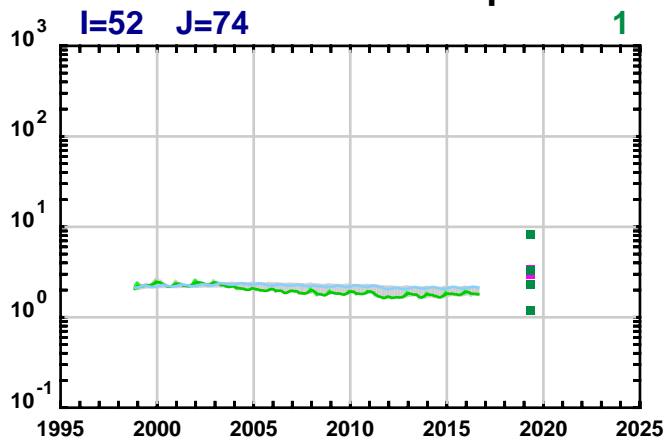
**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,7,8-Pentachlorodibenzofuran ppt



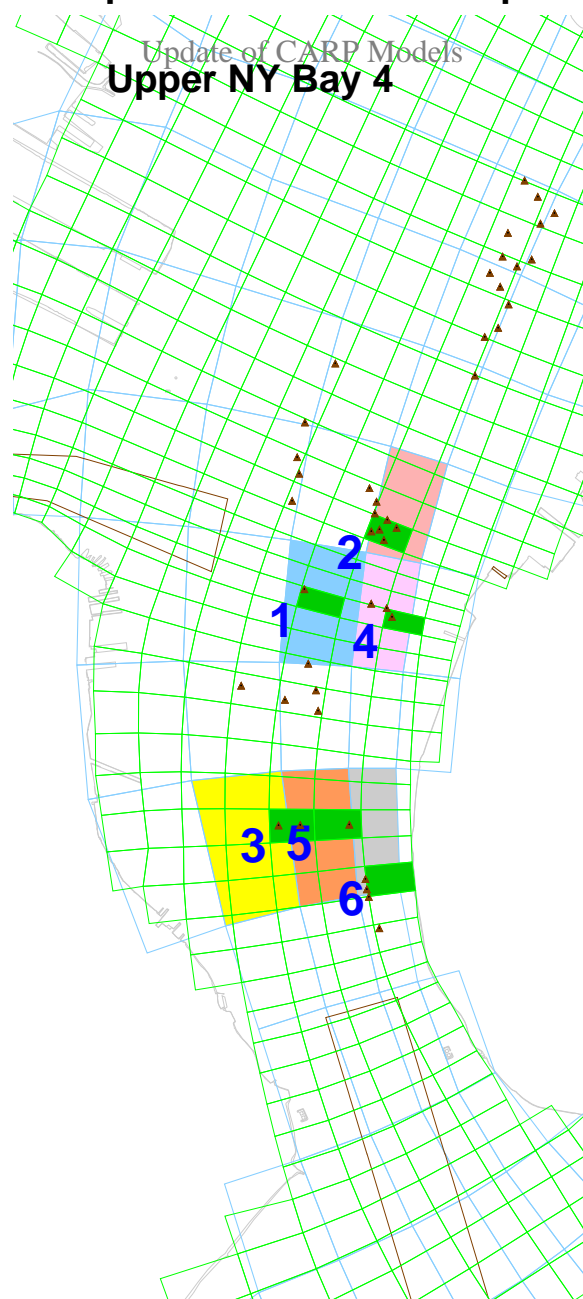
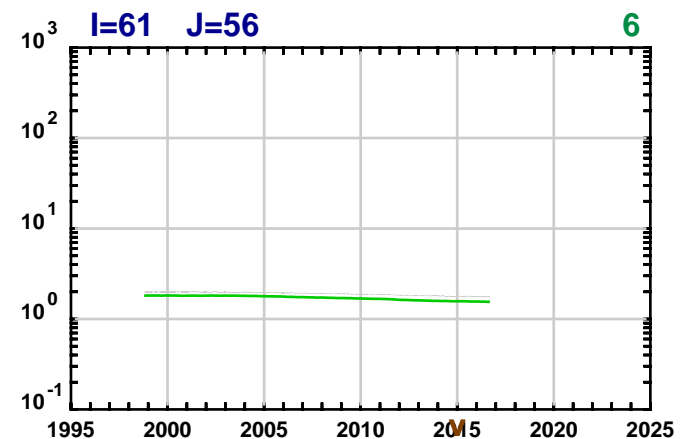
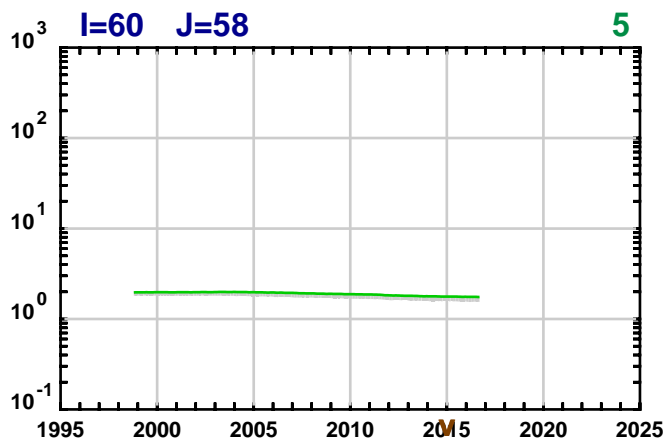
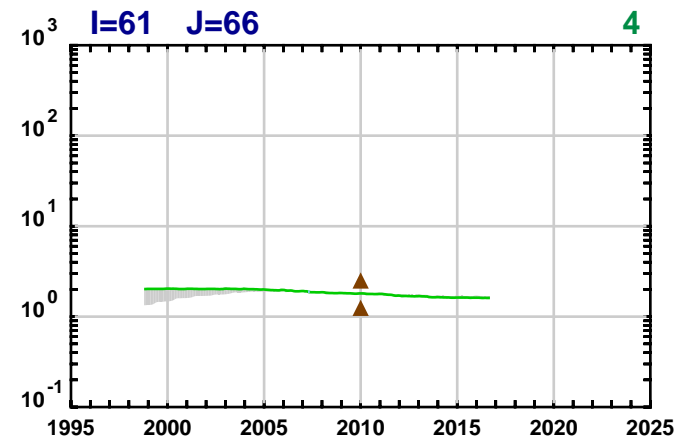
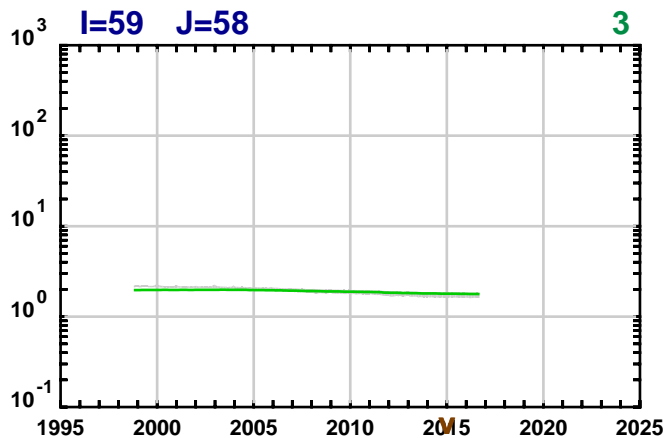
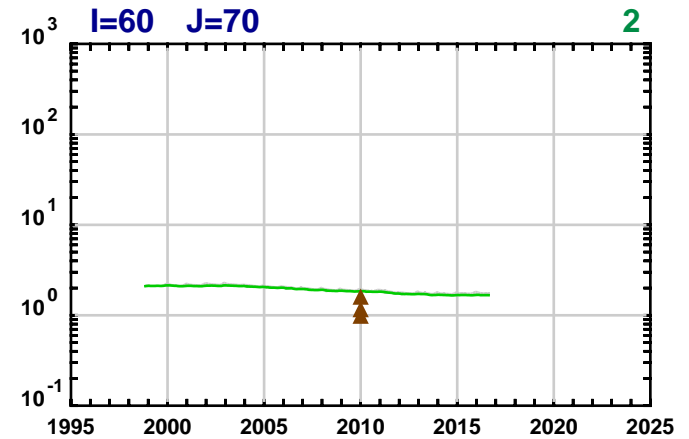
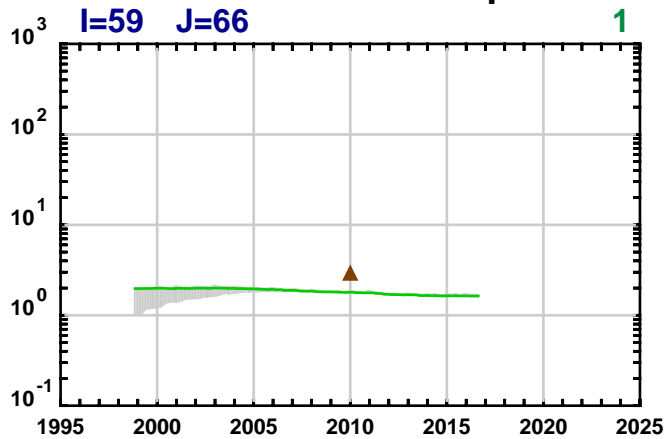
**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,7,8-Pentachlorodibenzofuran ppt



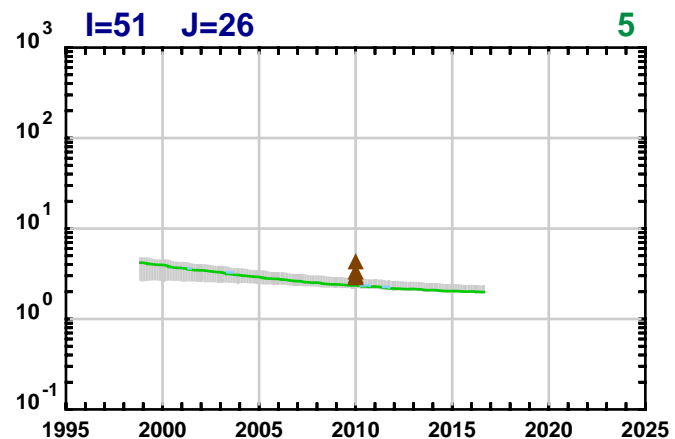
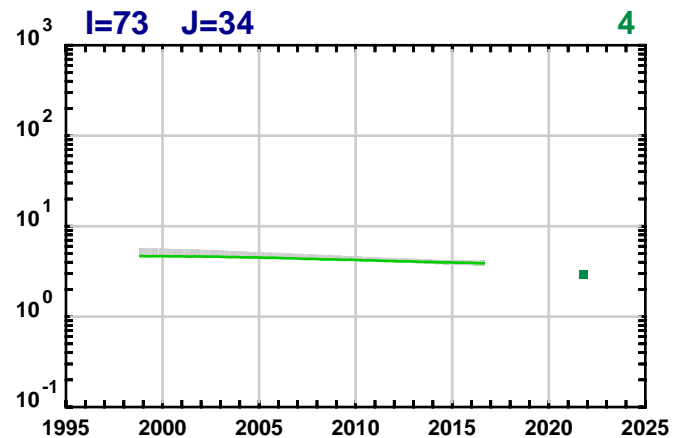
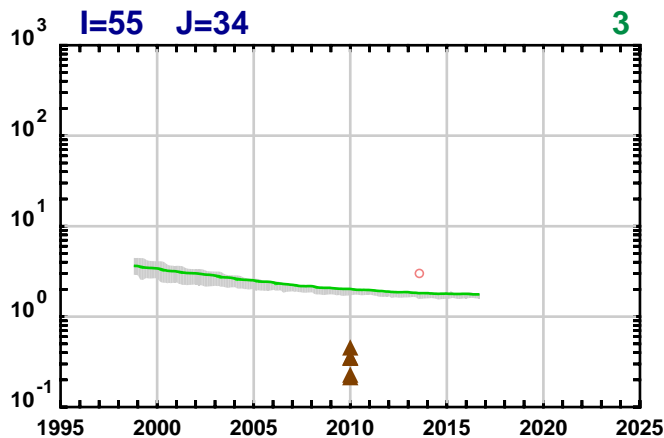
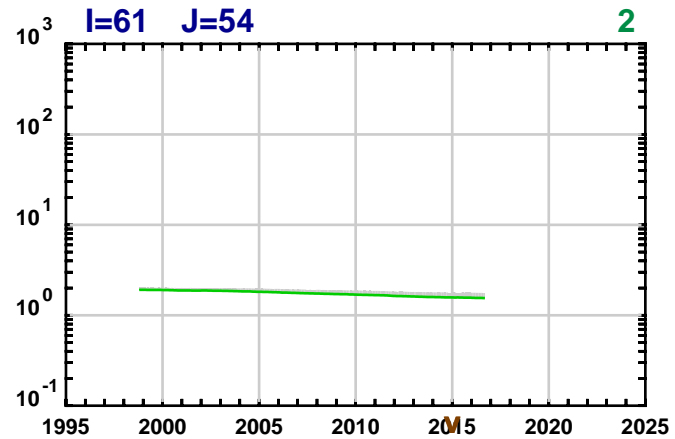
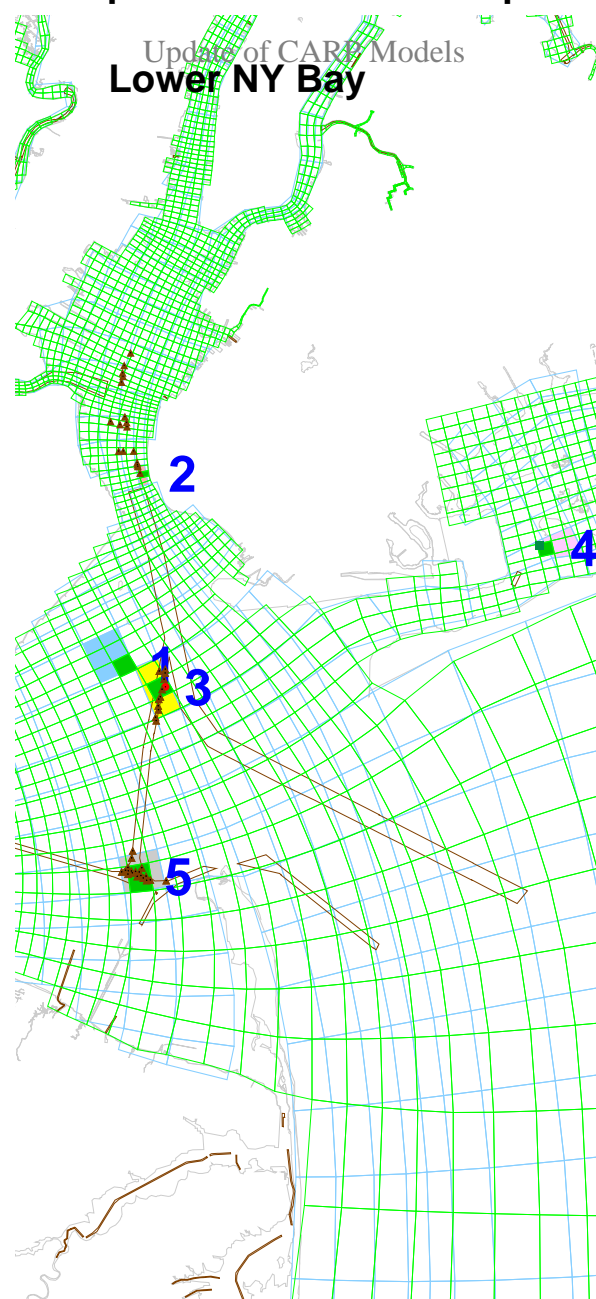
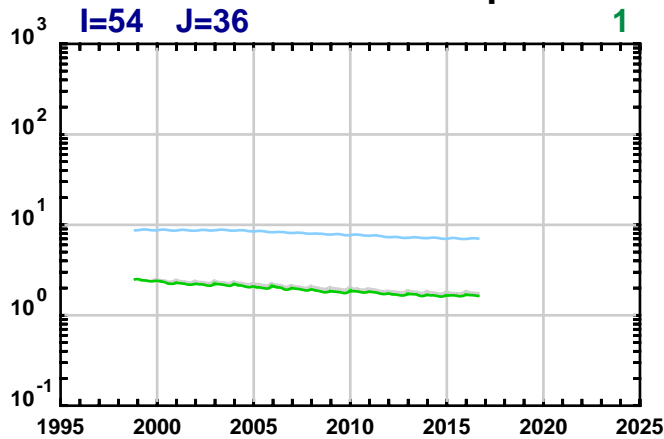
**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,7,8-Pentachlorodibenzofuran ppt

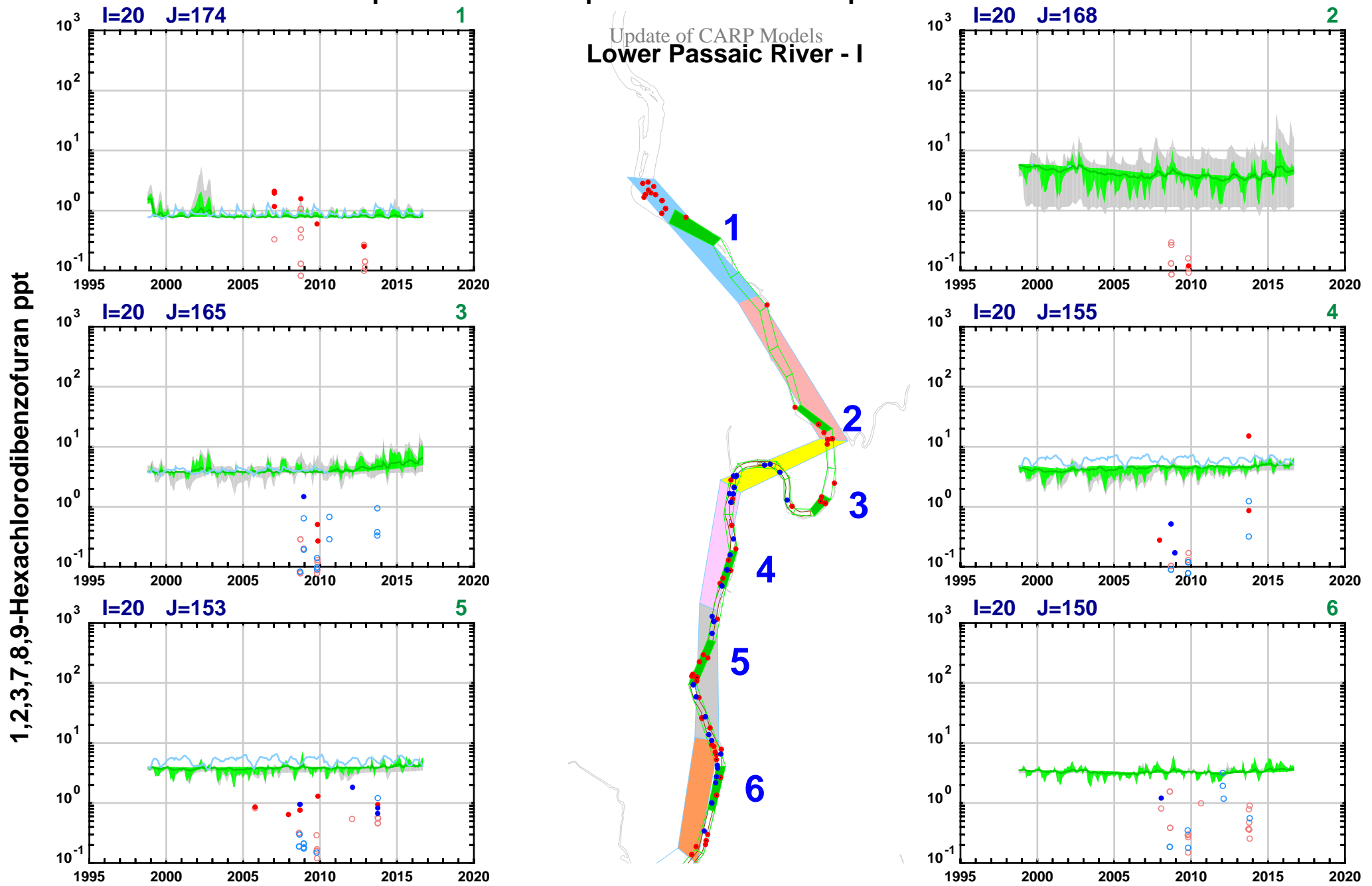


**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



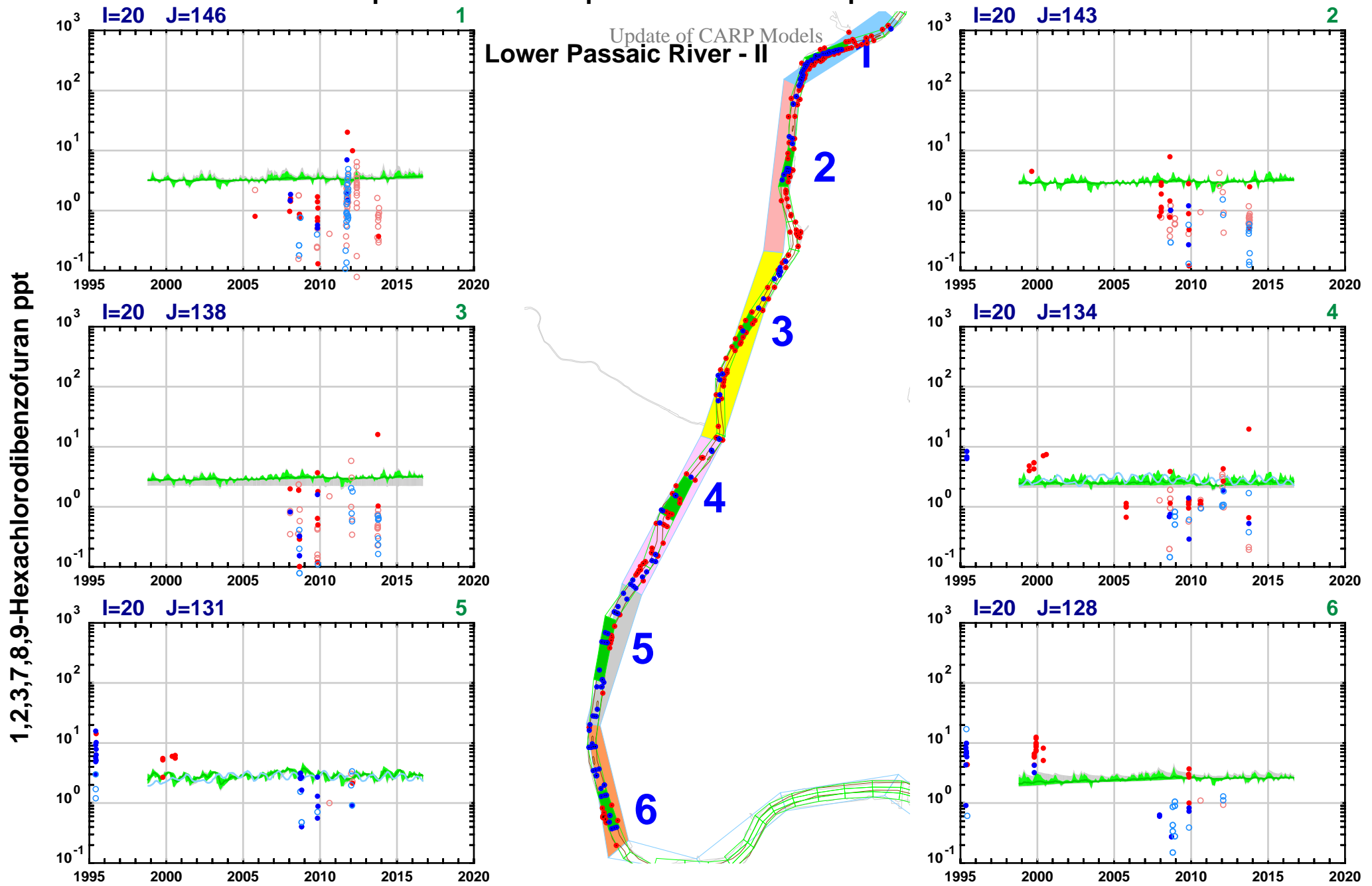
**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



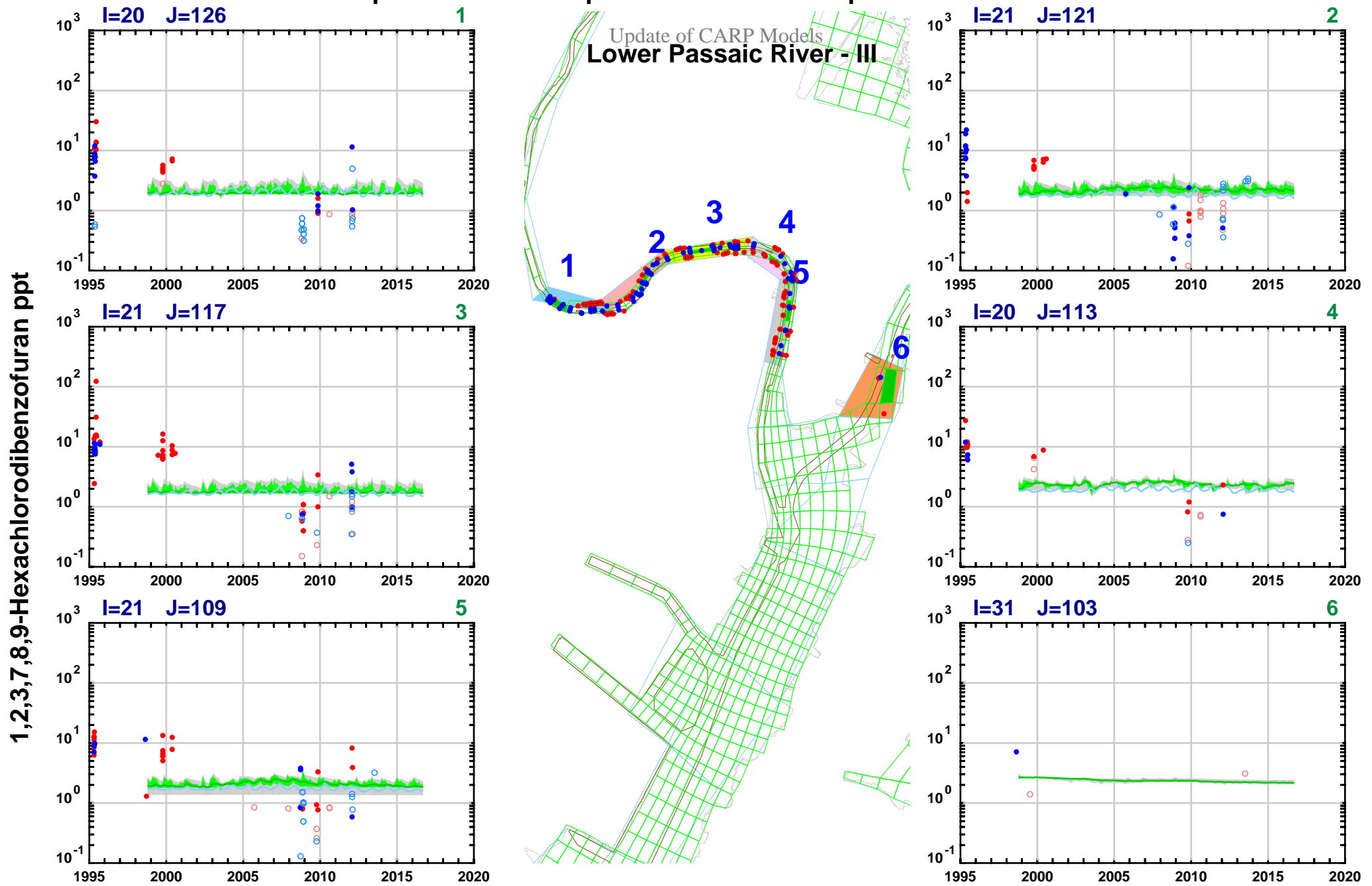
**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



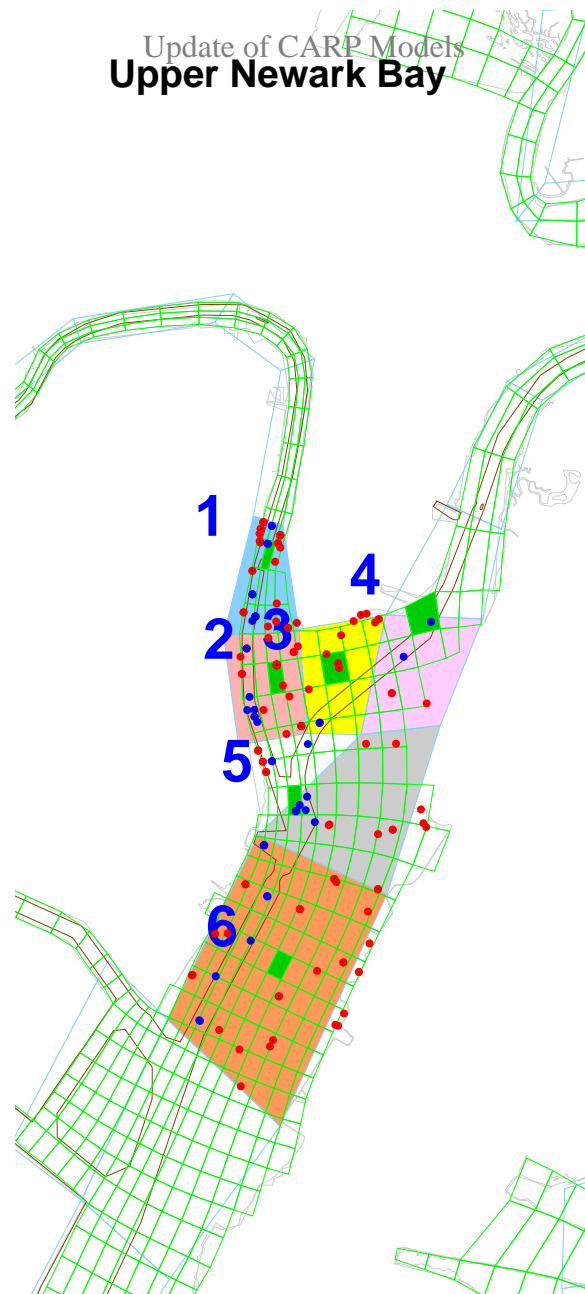
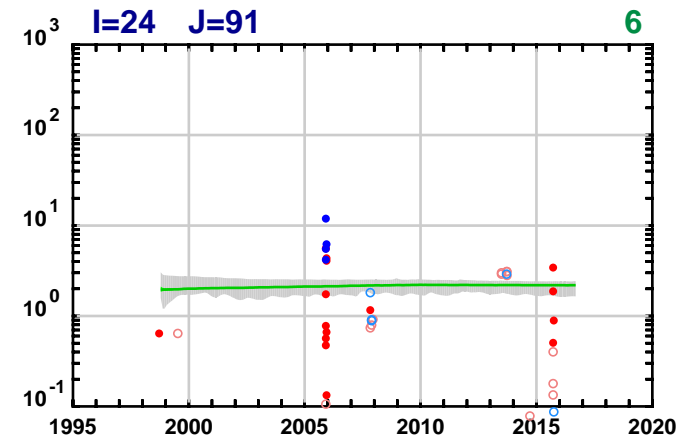
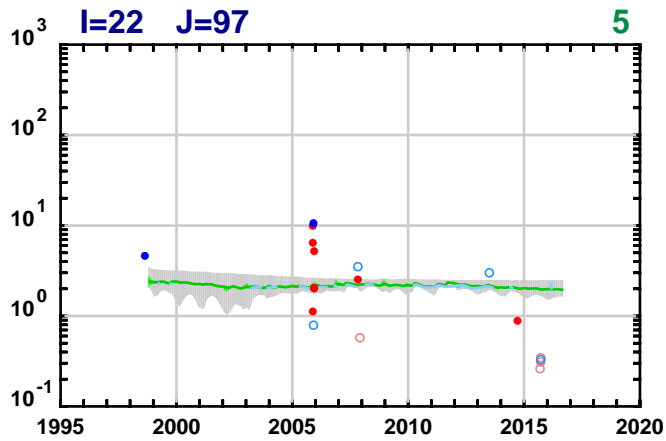
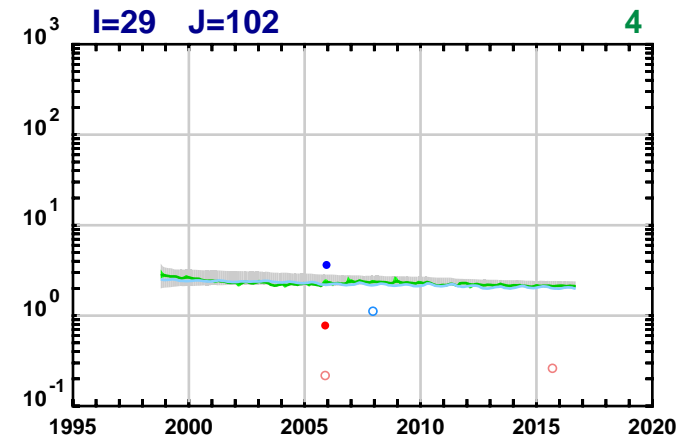
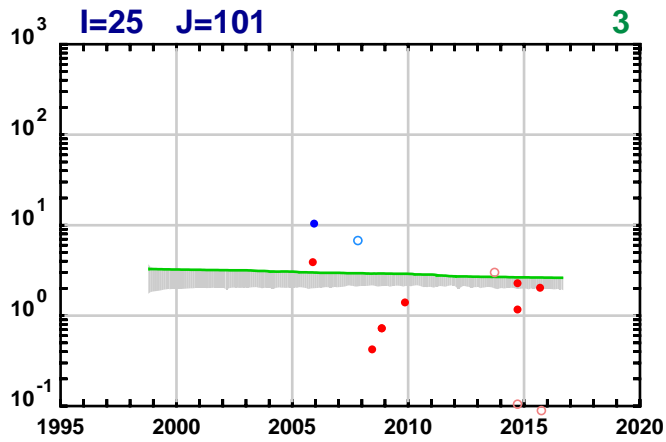
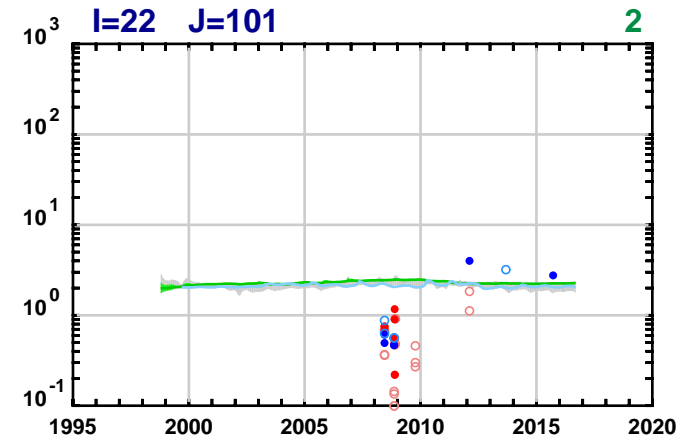
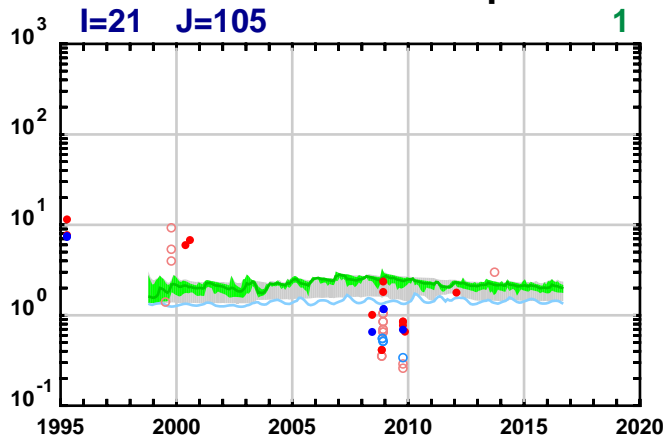
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

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

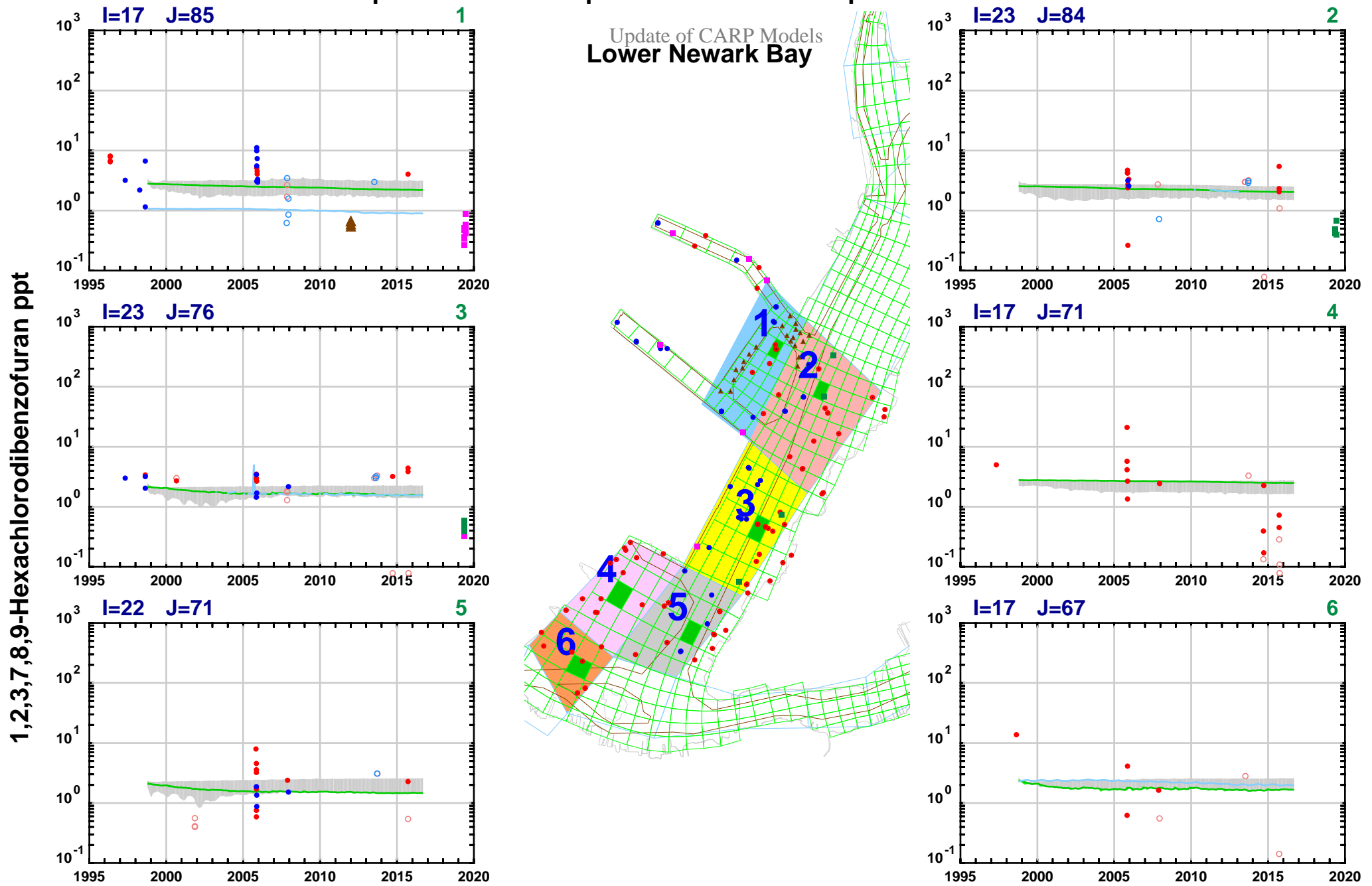


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

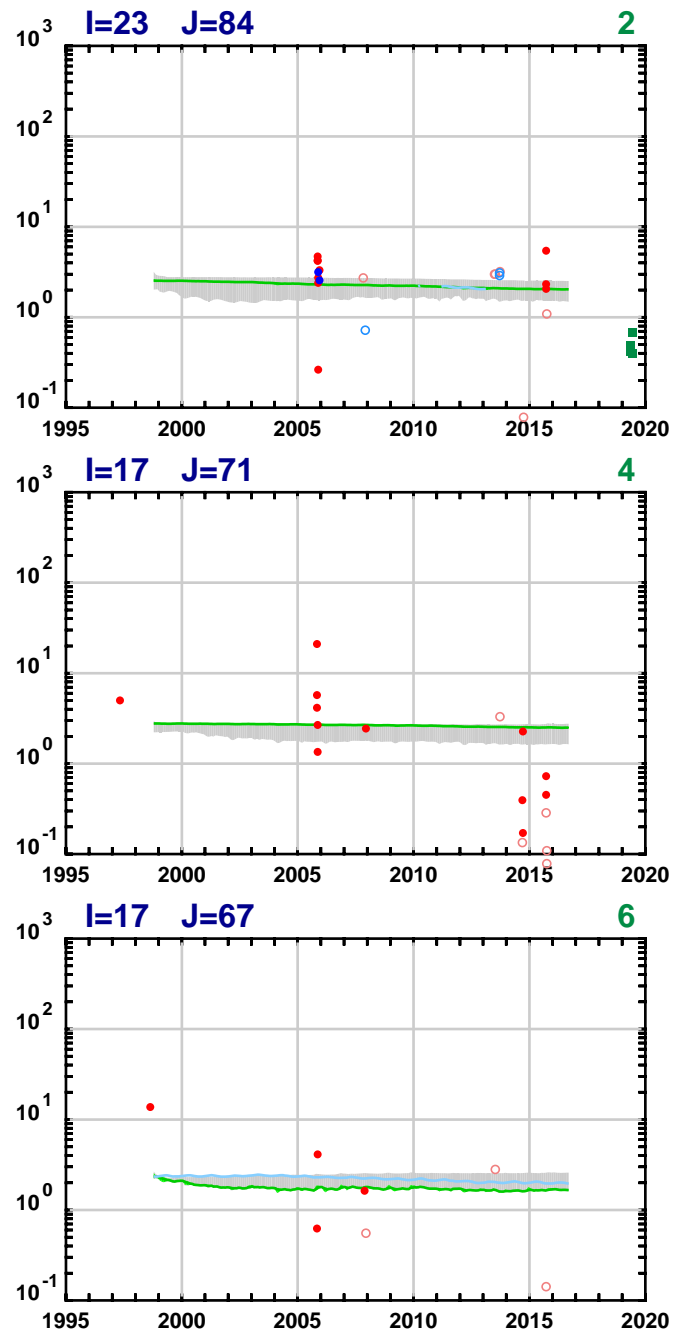
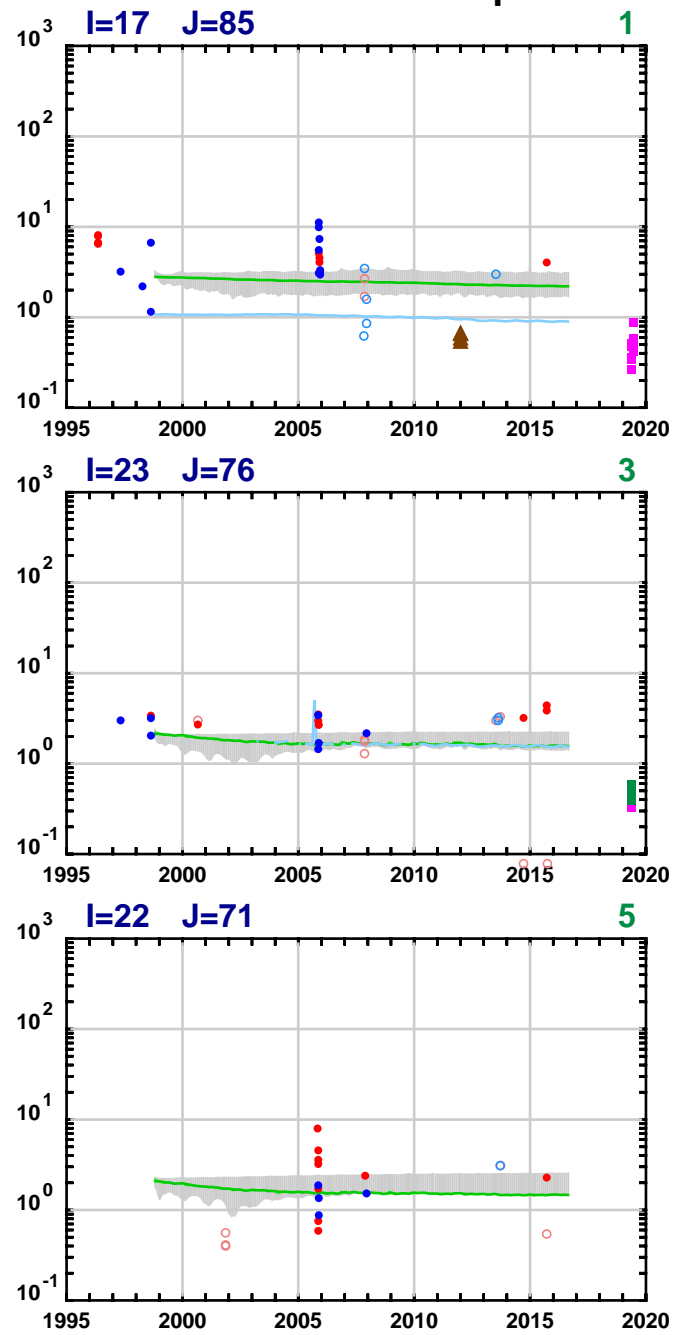
● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



Update of CARP Models  
Lower Newark Bay

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

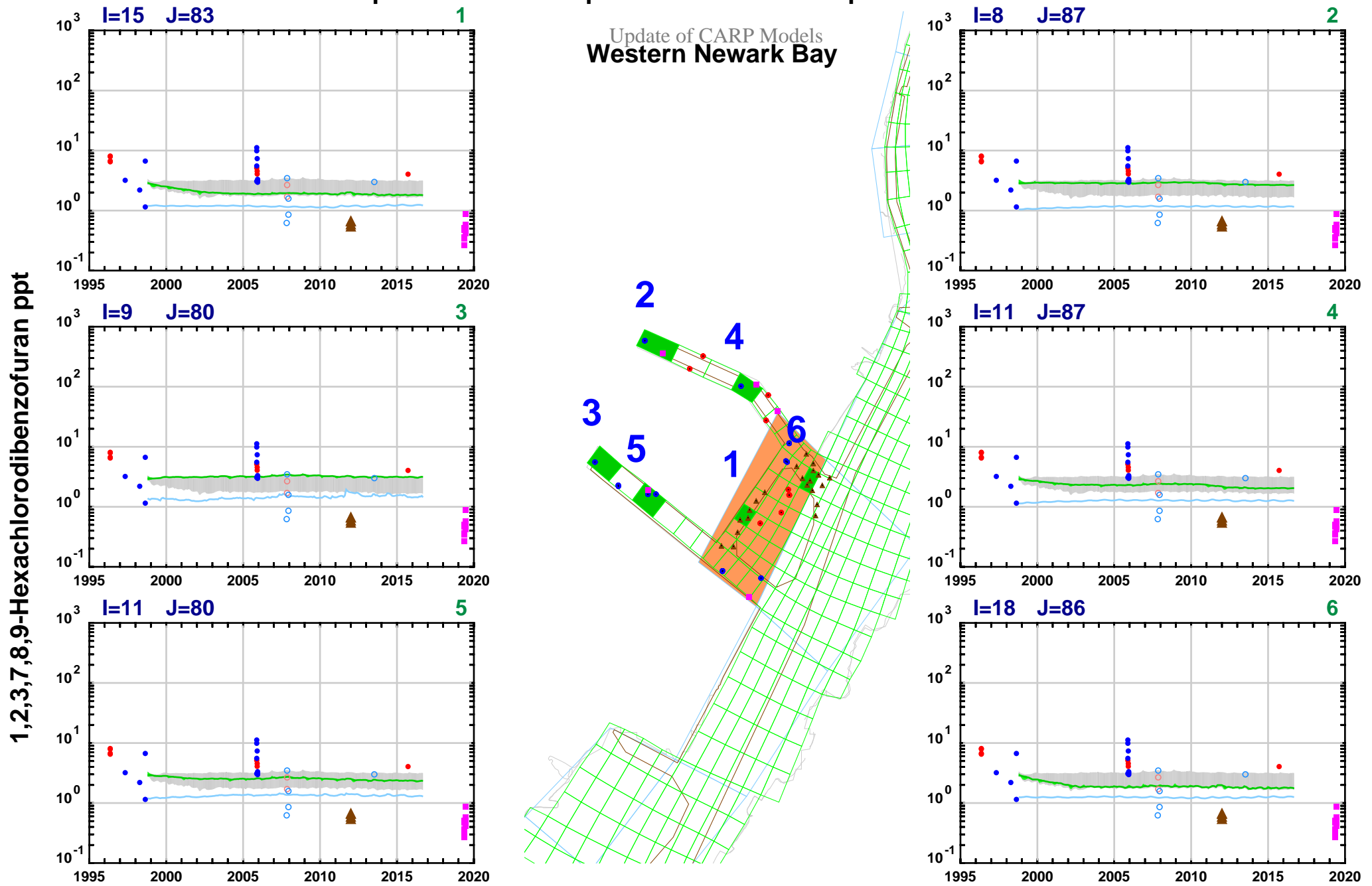


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



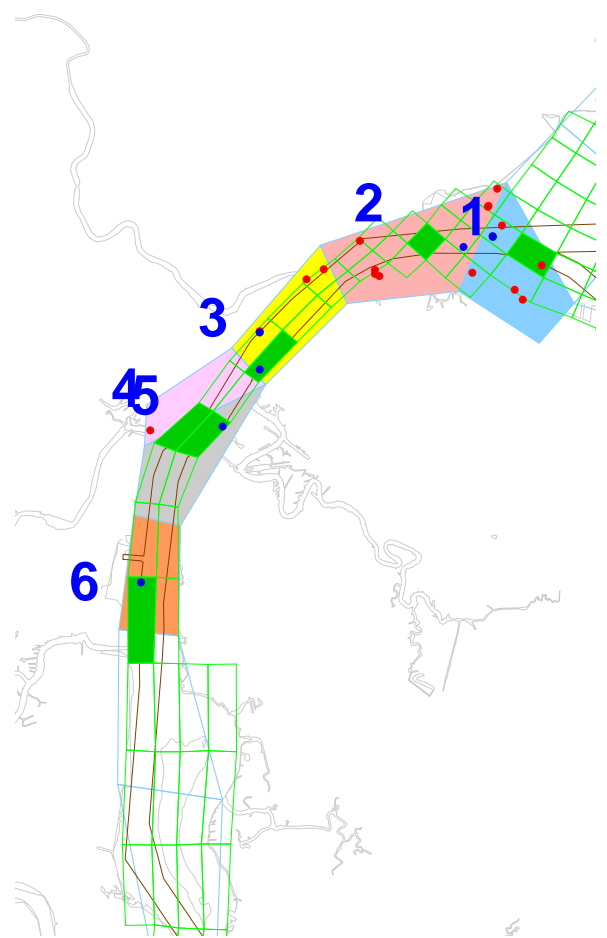
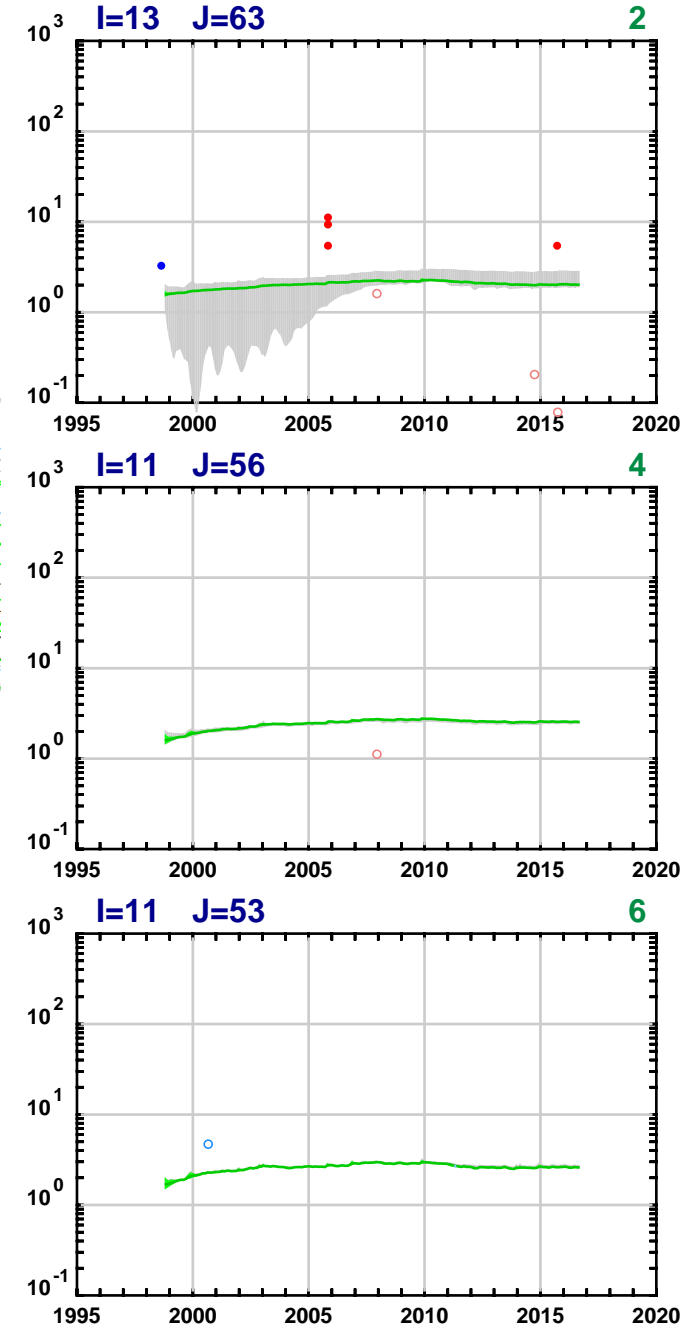
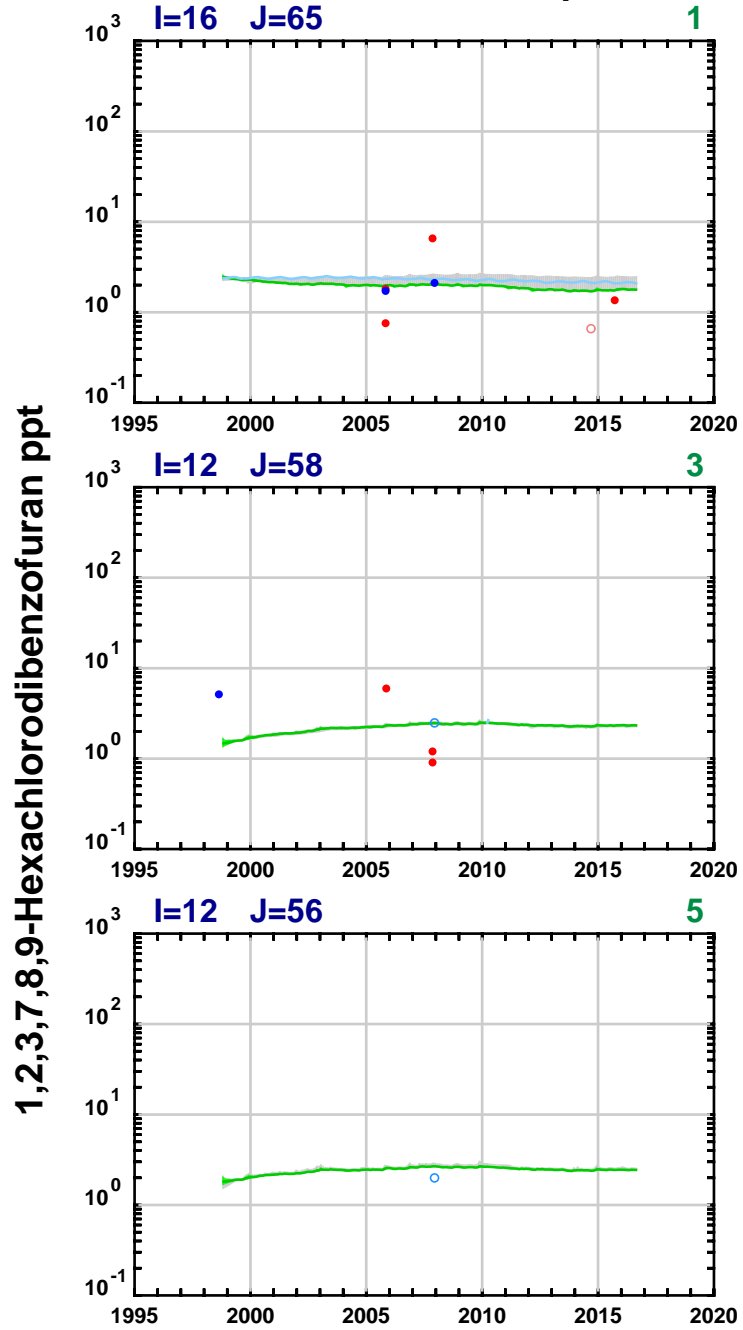
**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1



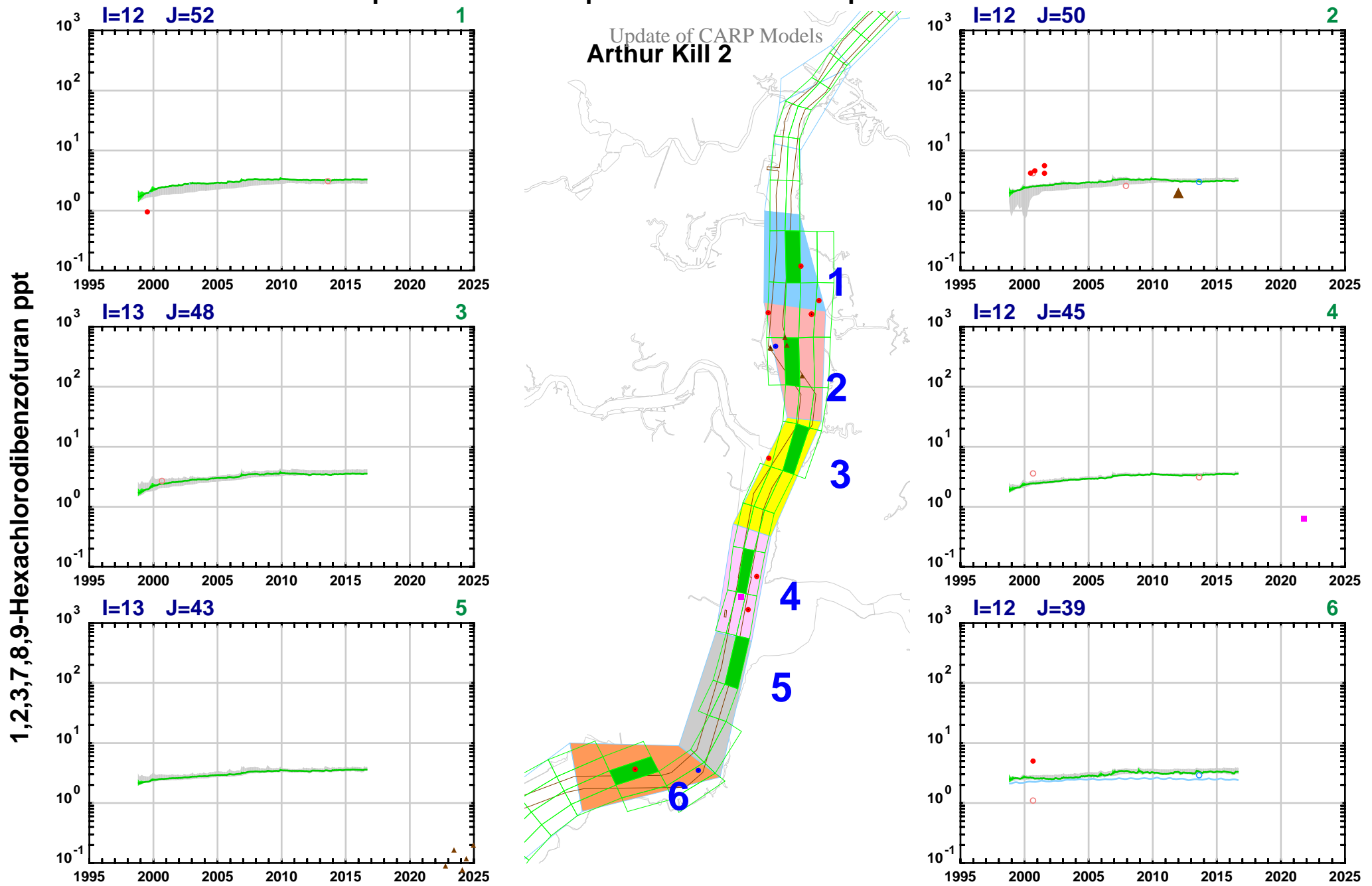
1,2,3,7,8,9-Hexachlorodibenzofuran ppt

RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

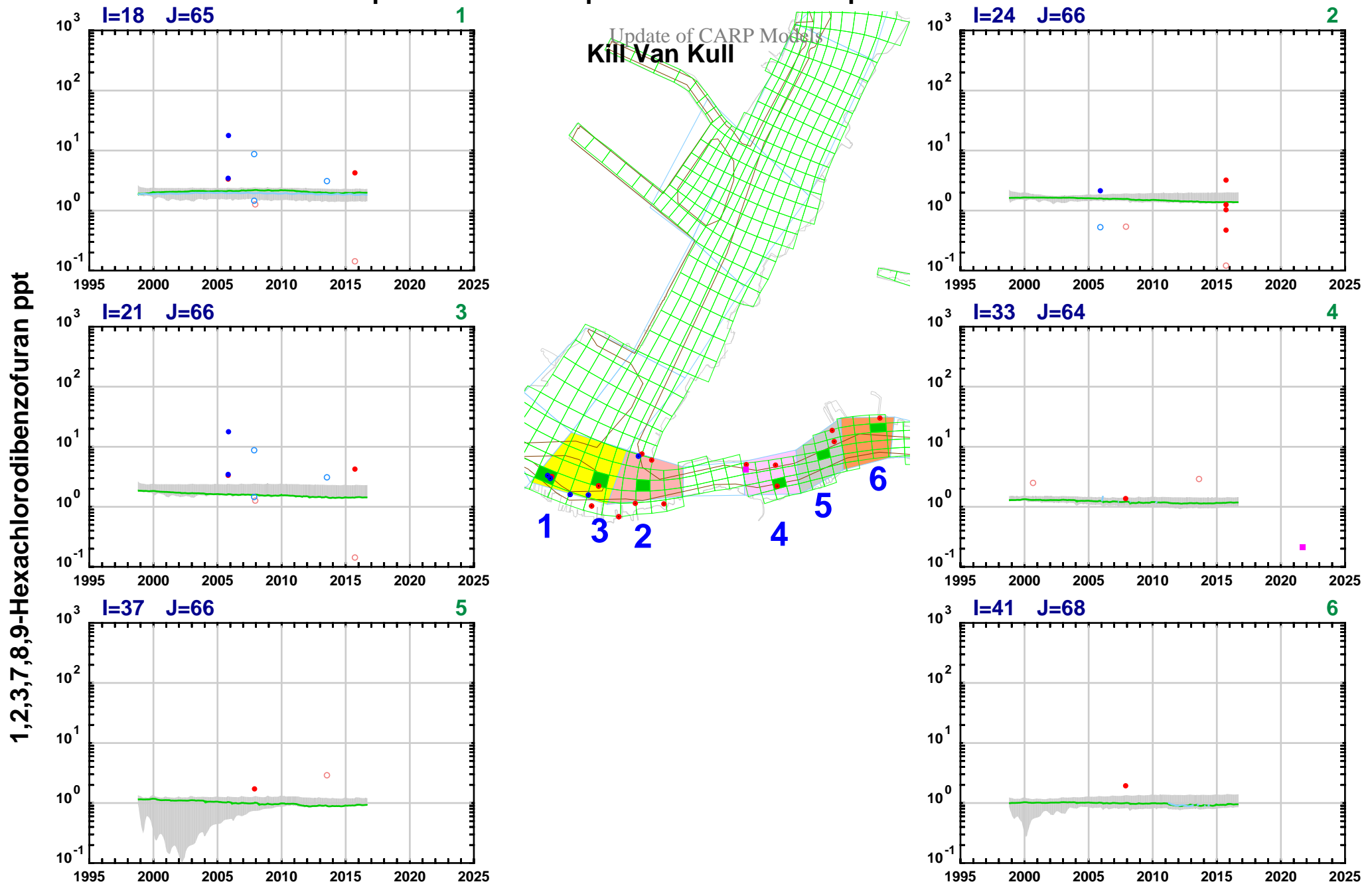


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



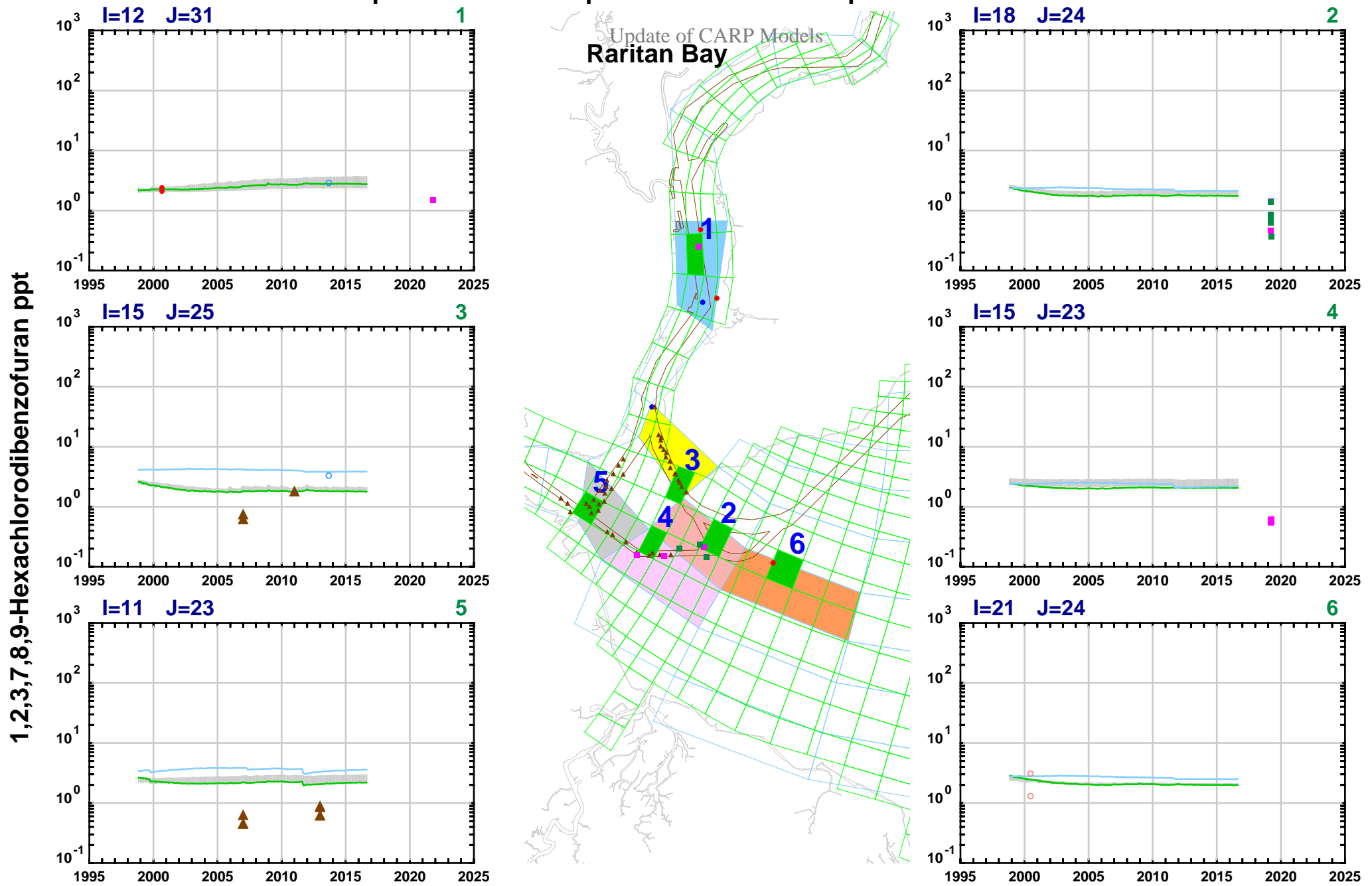
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

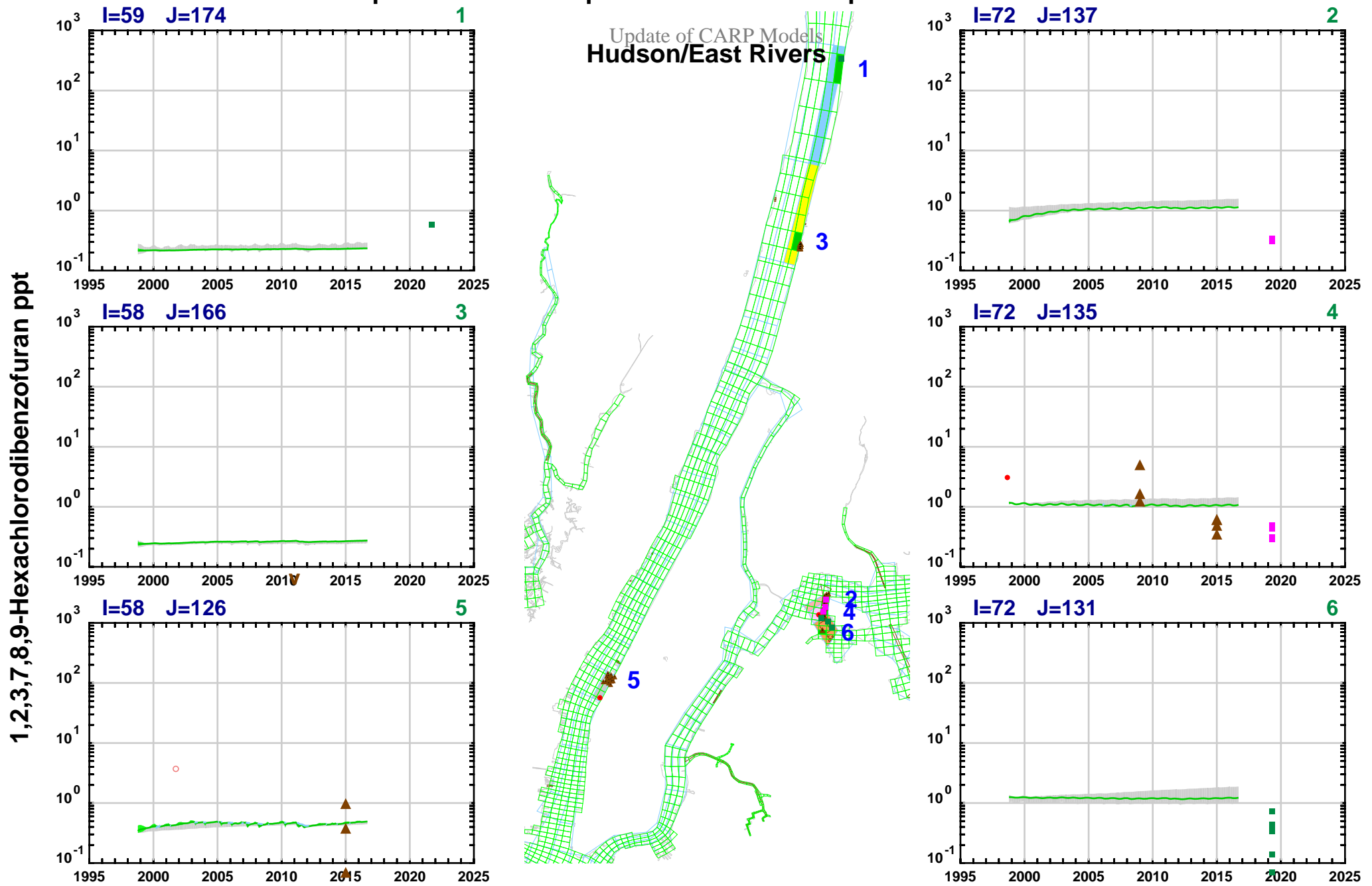


**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

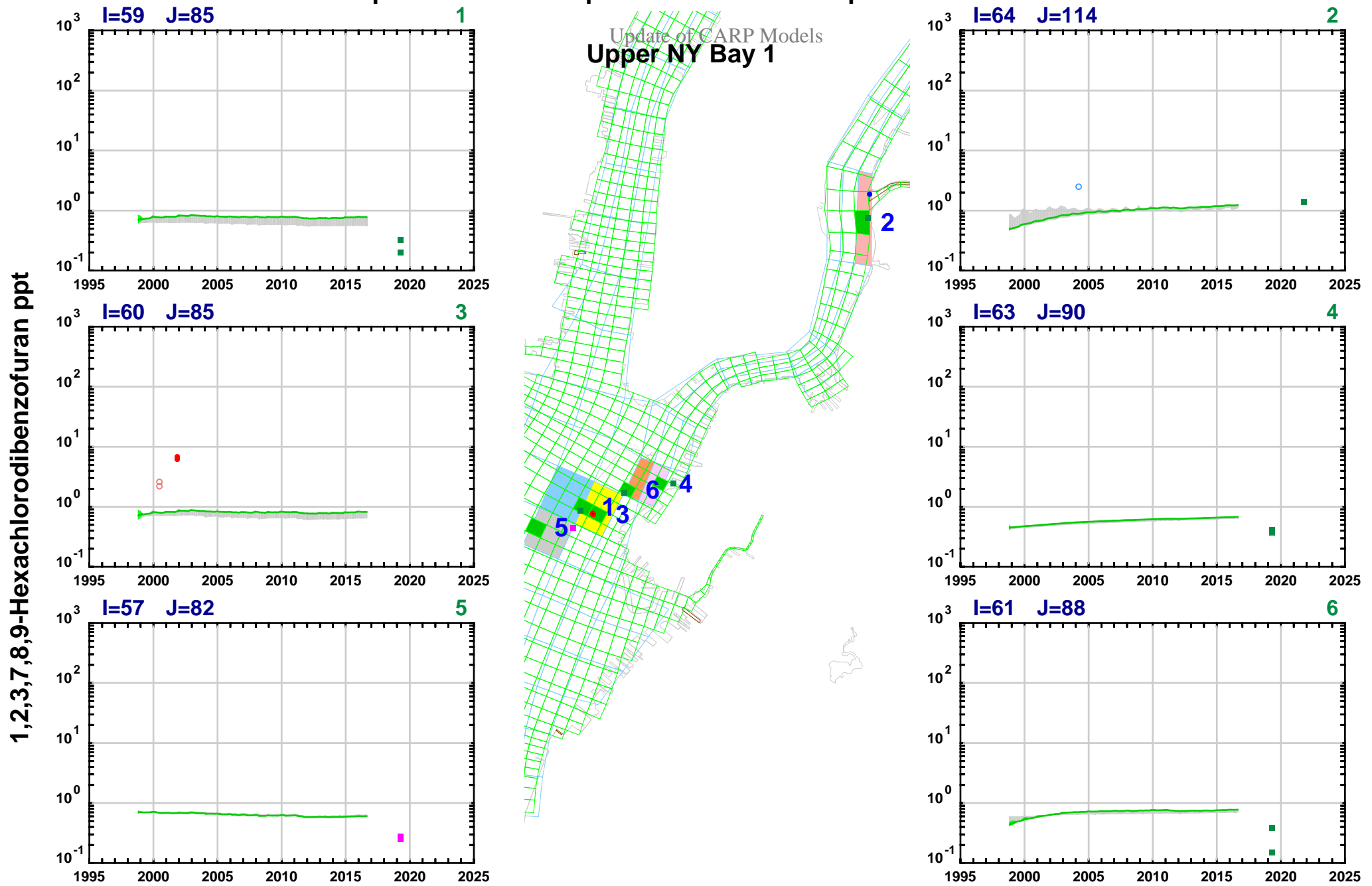


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

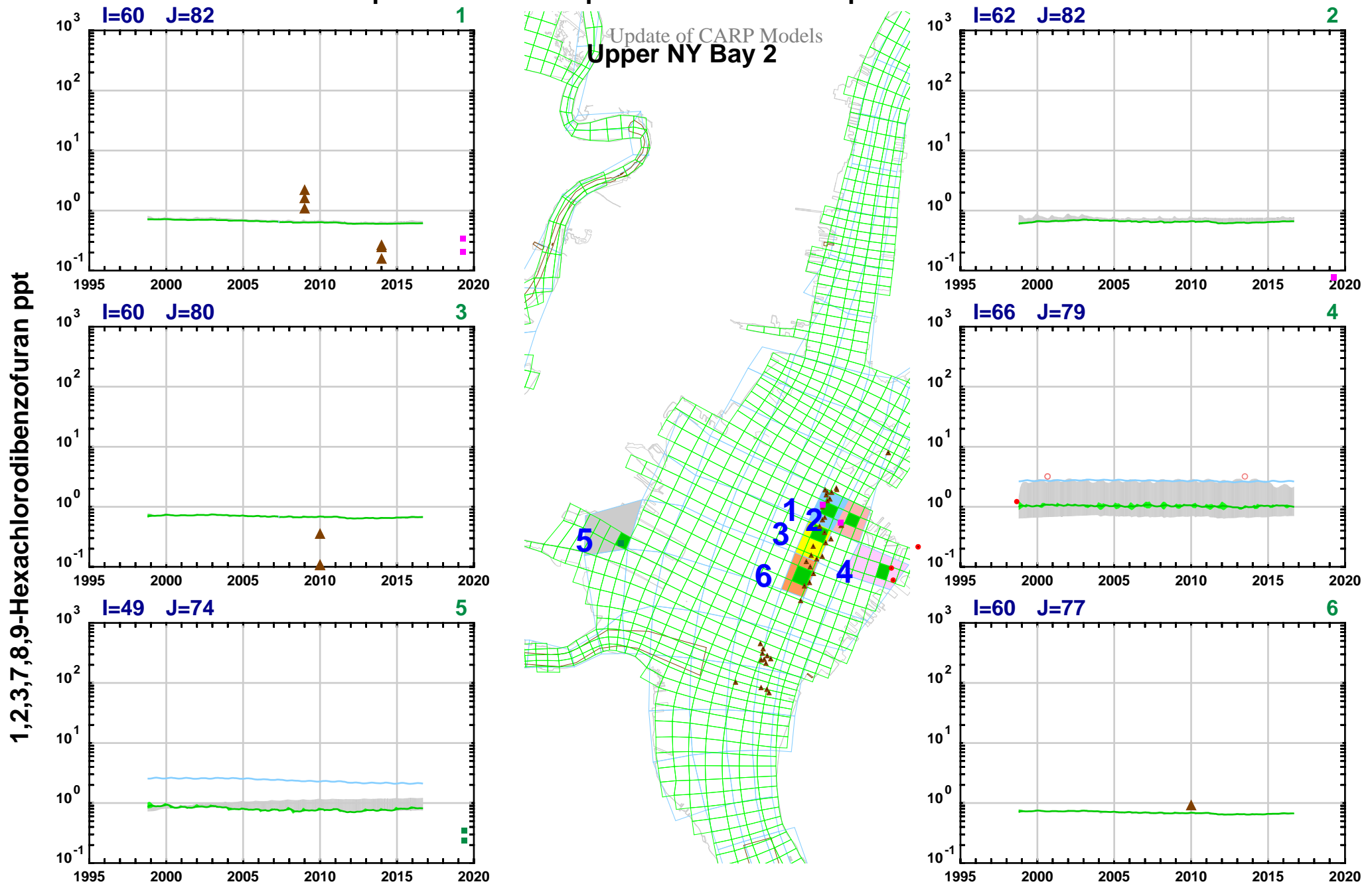


**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

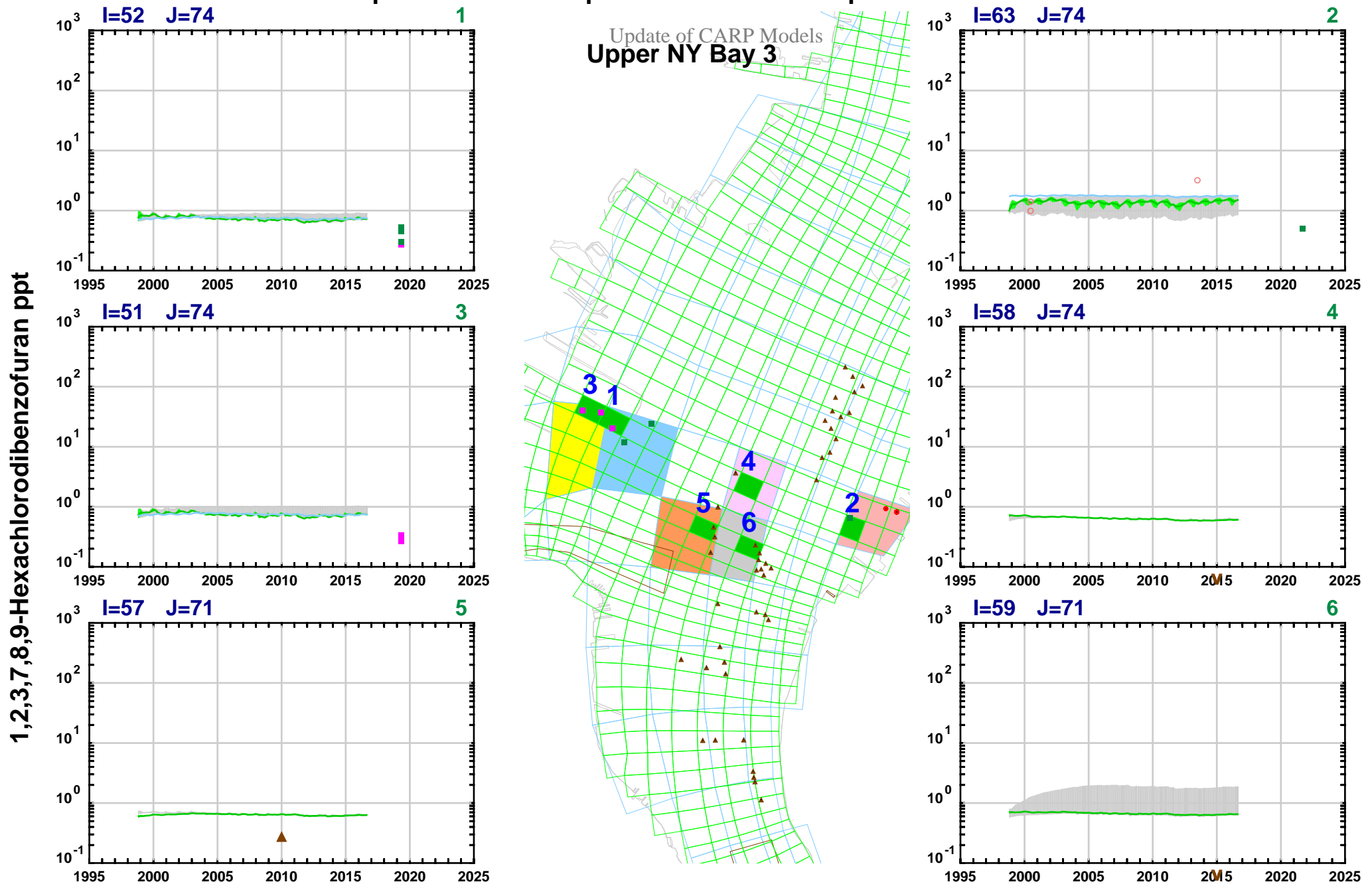


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

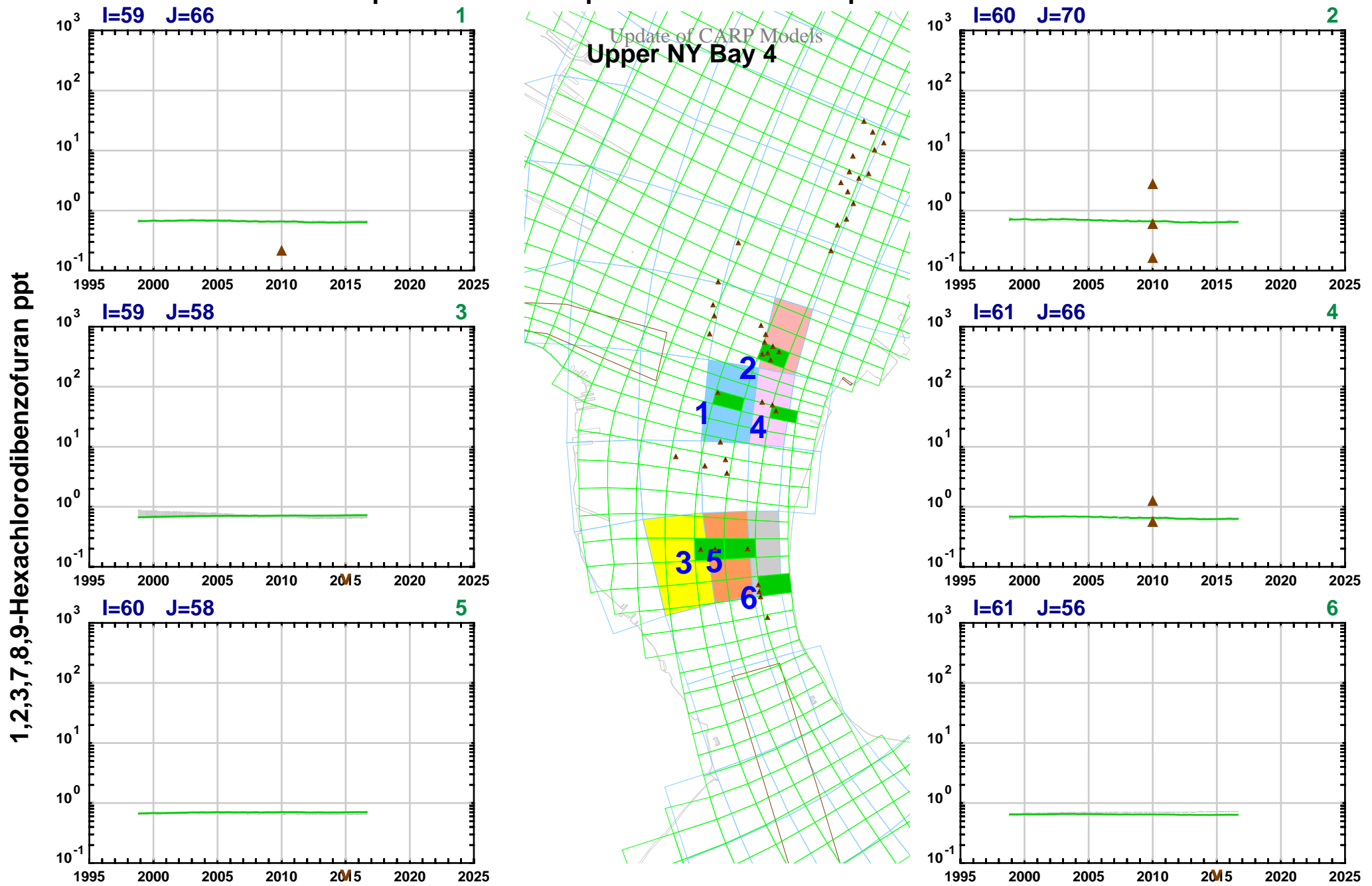


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



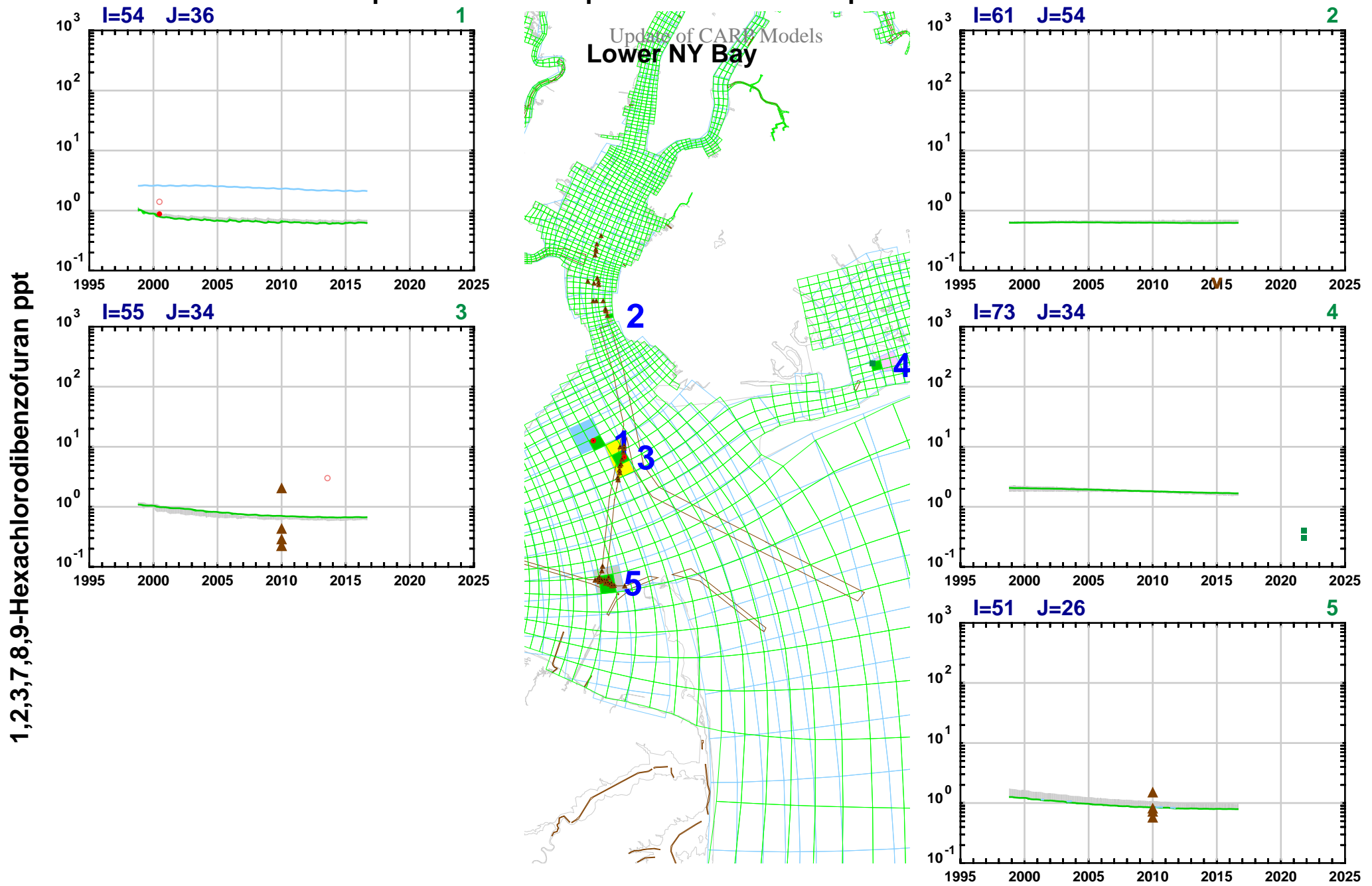
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



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

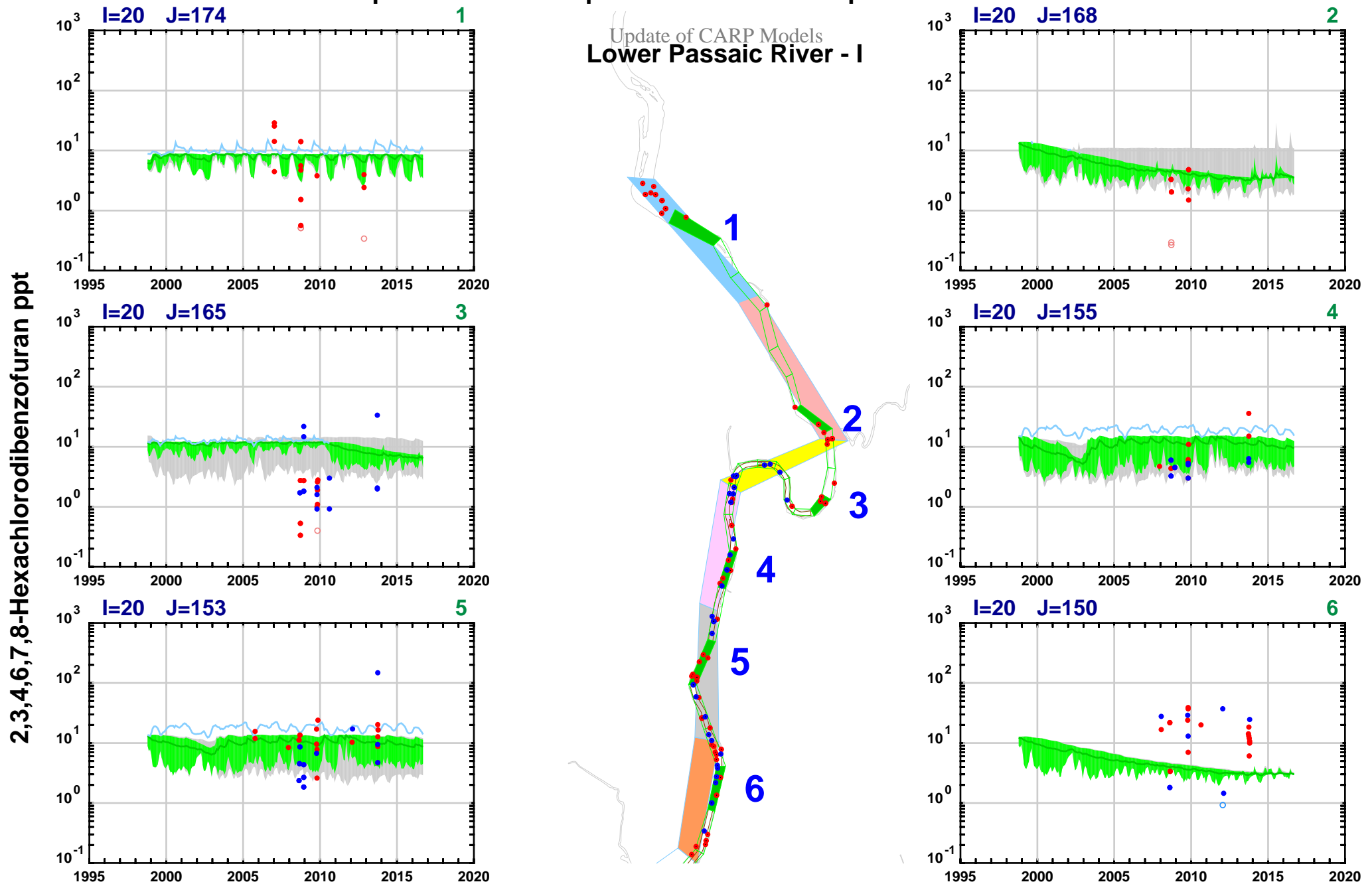
**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



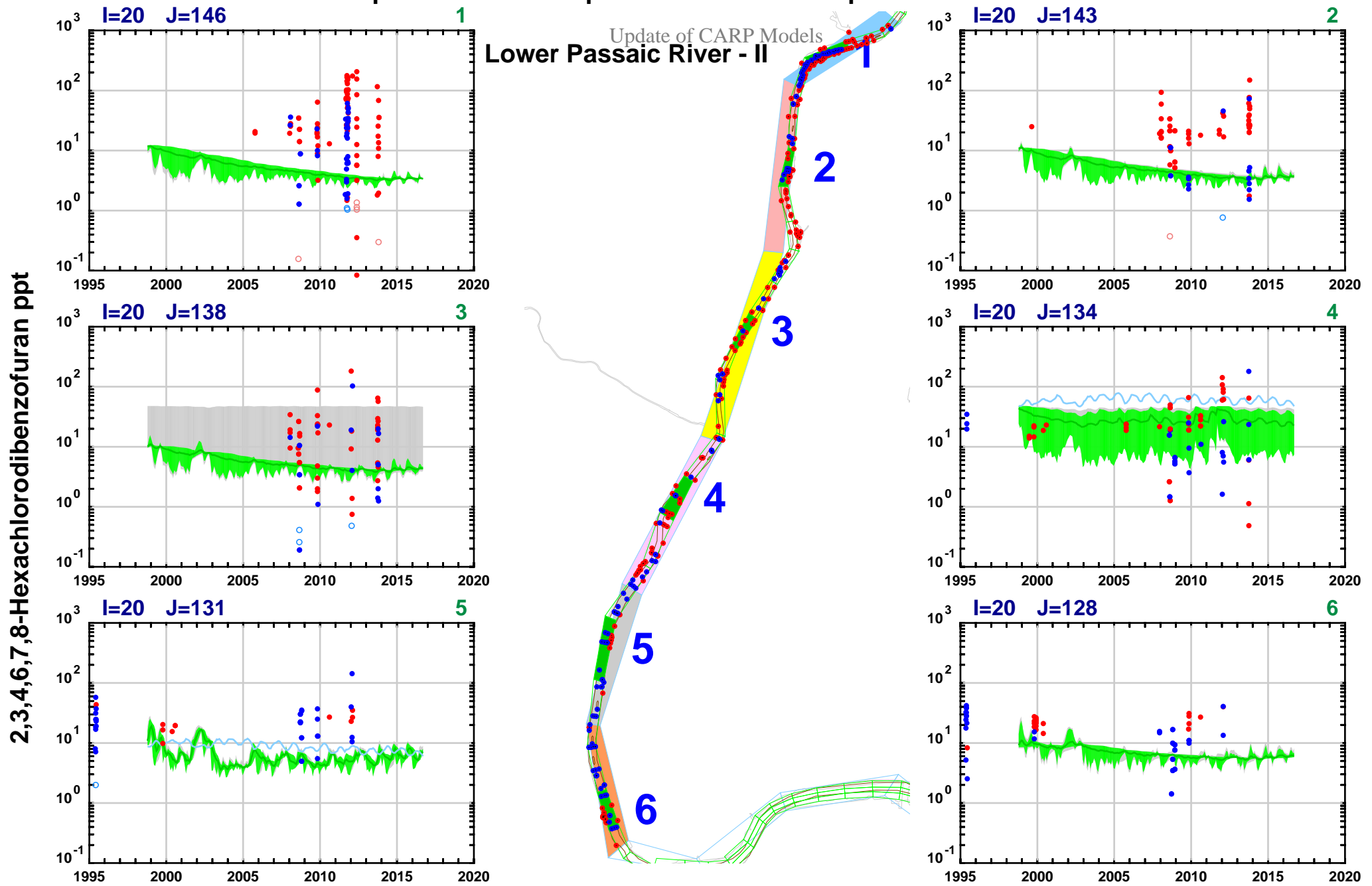
2,3,4,6,7,8-Hexachlorodibenzofuran ppt

**RUN18\_S4\_R2**

**Model:** mean and range of values in top sediment  
**Model:** mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

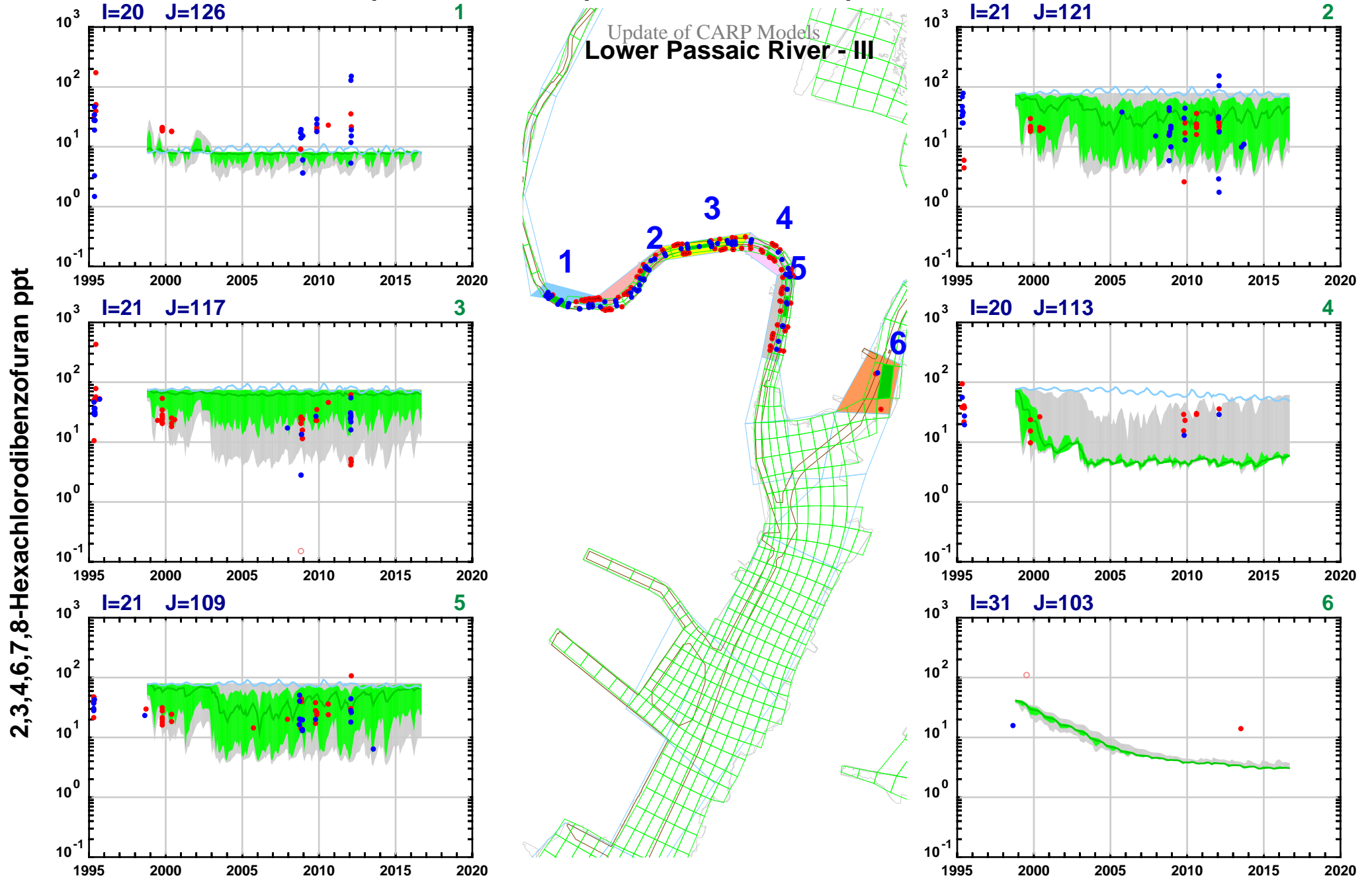


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

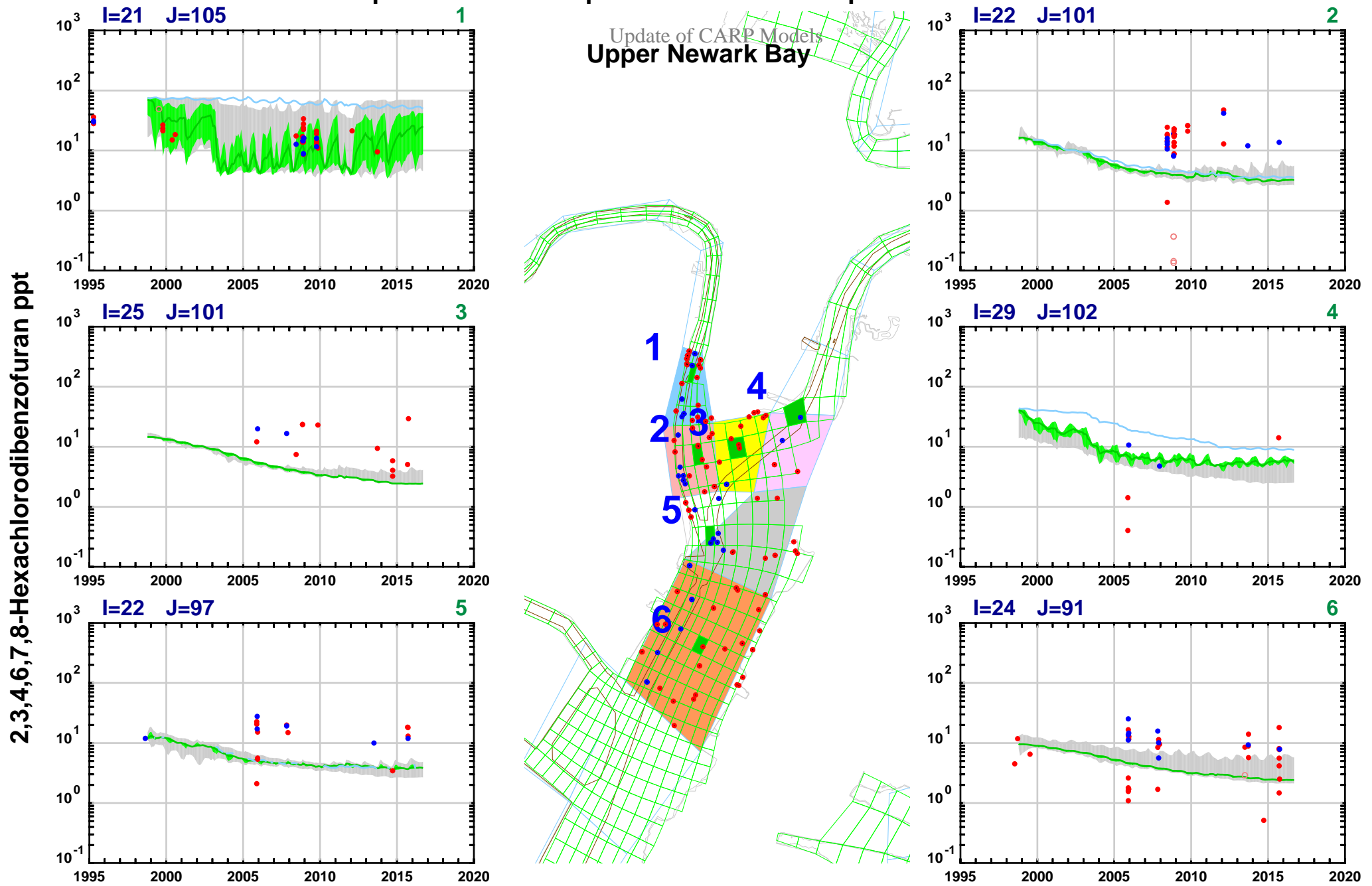


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

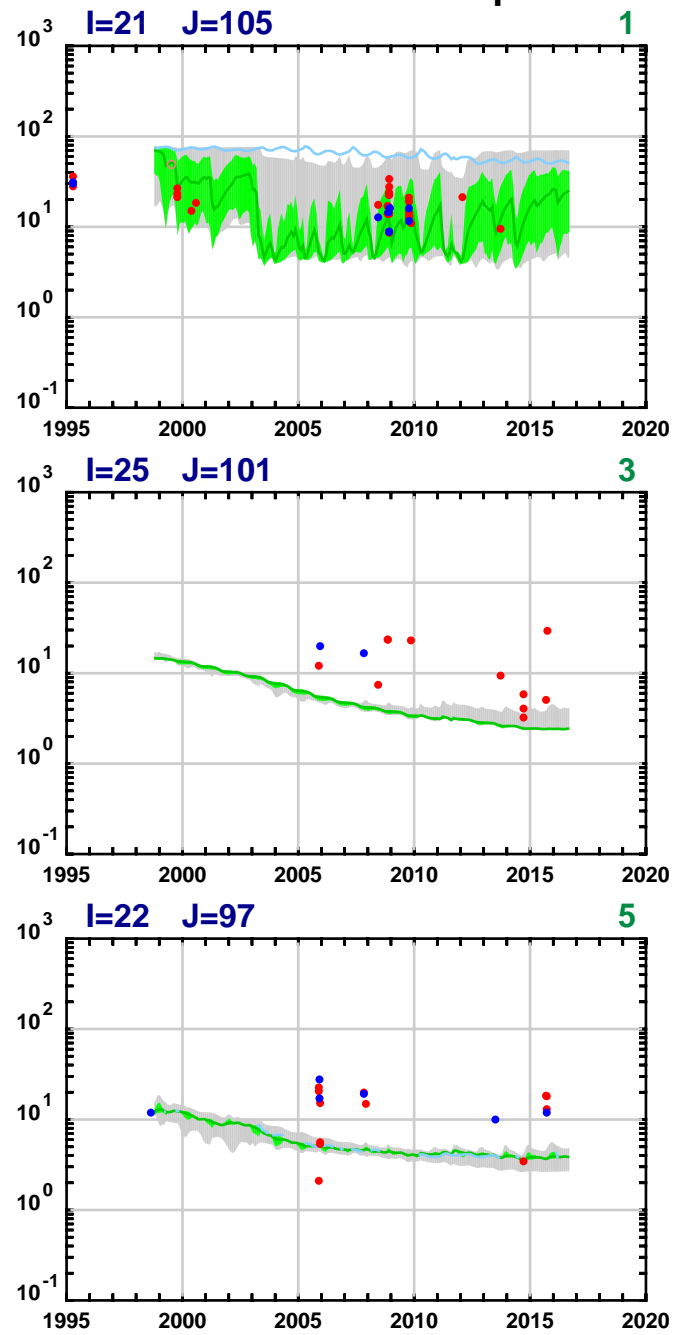
● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



Update of CARP Models  
Upper Newark Bay

2,3,4,6,7,8-Hexachlorodibenzofuran ppt

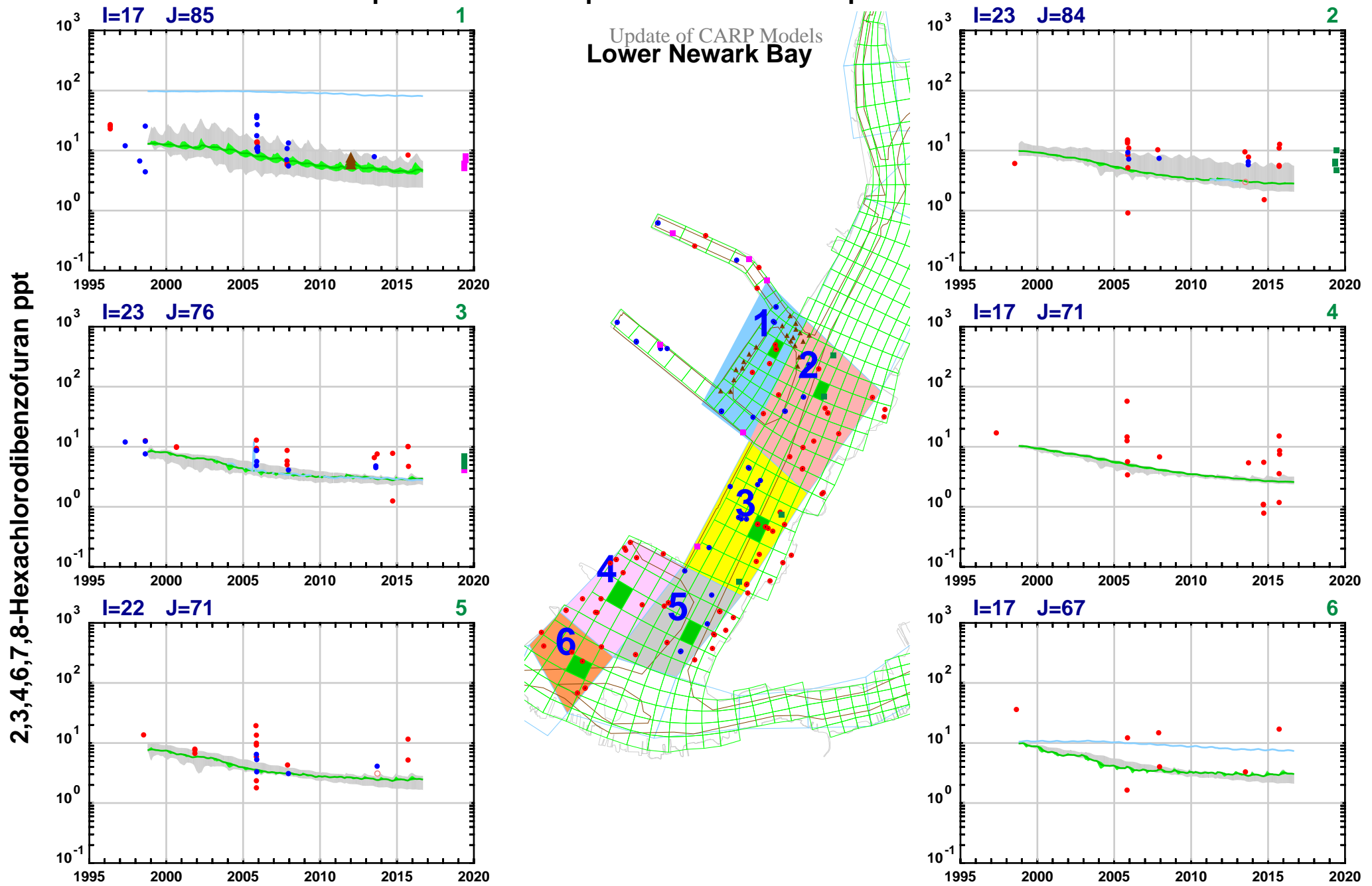


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

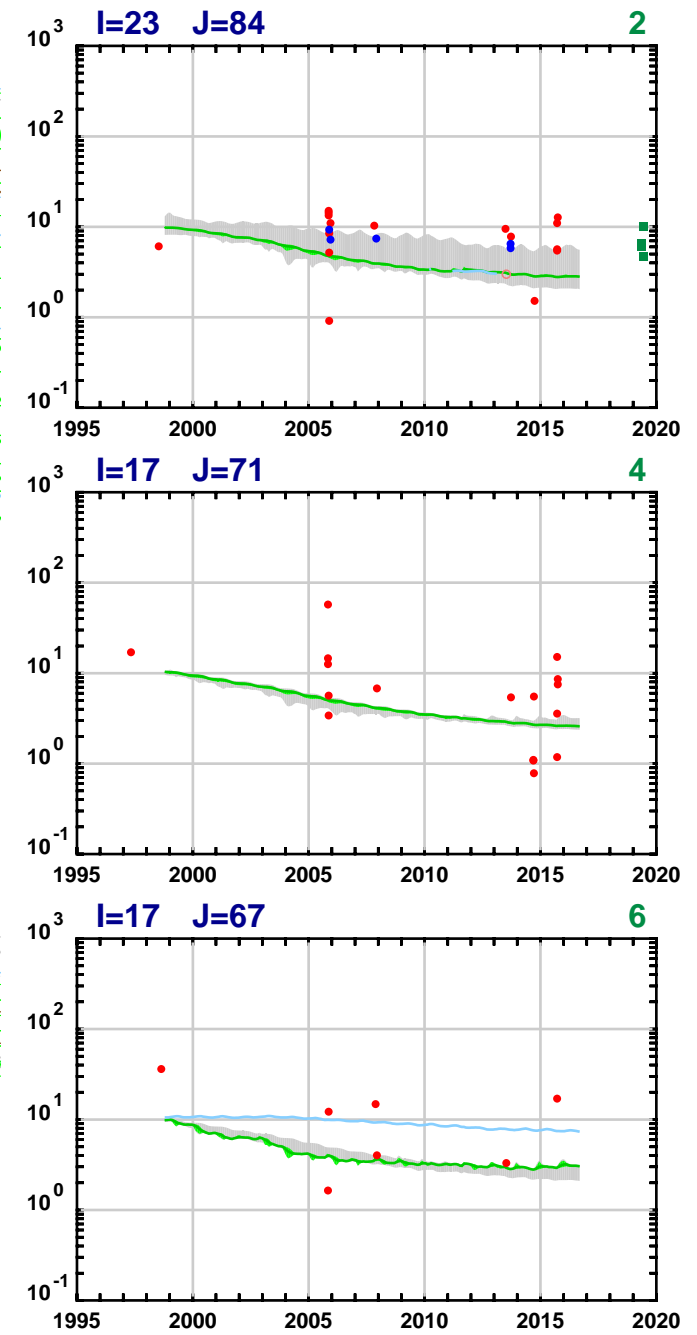
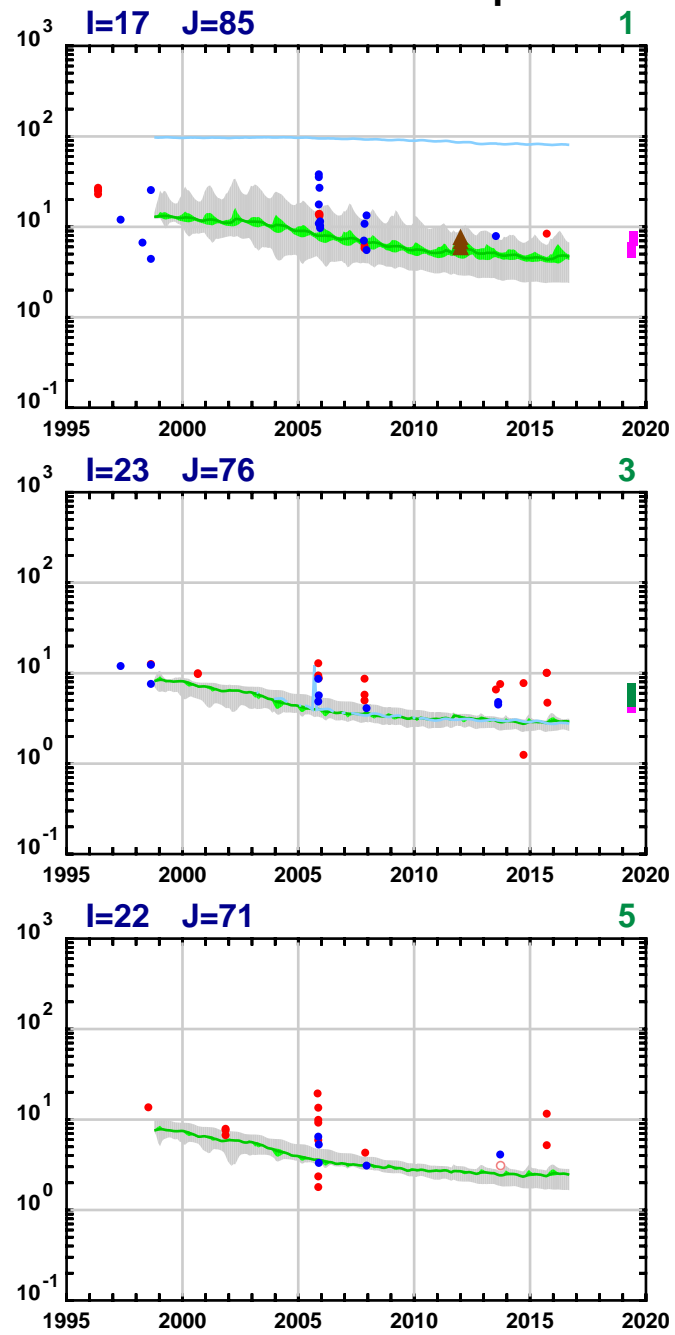
● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



Update of CARP Models  
Lower Newark Bay

2,3,4,6,7,8-Hexachlorodibenzofuran ppt

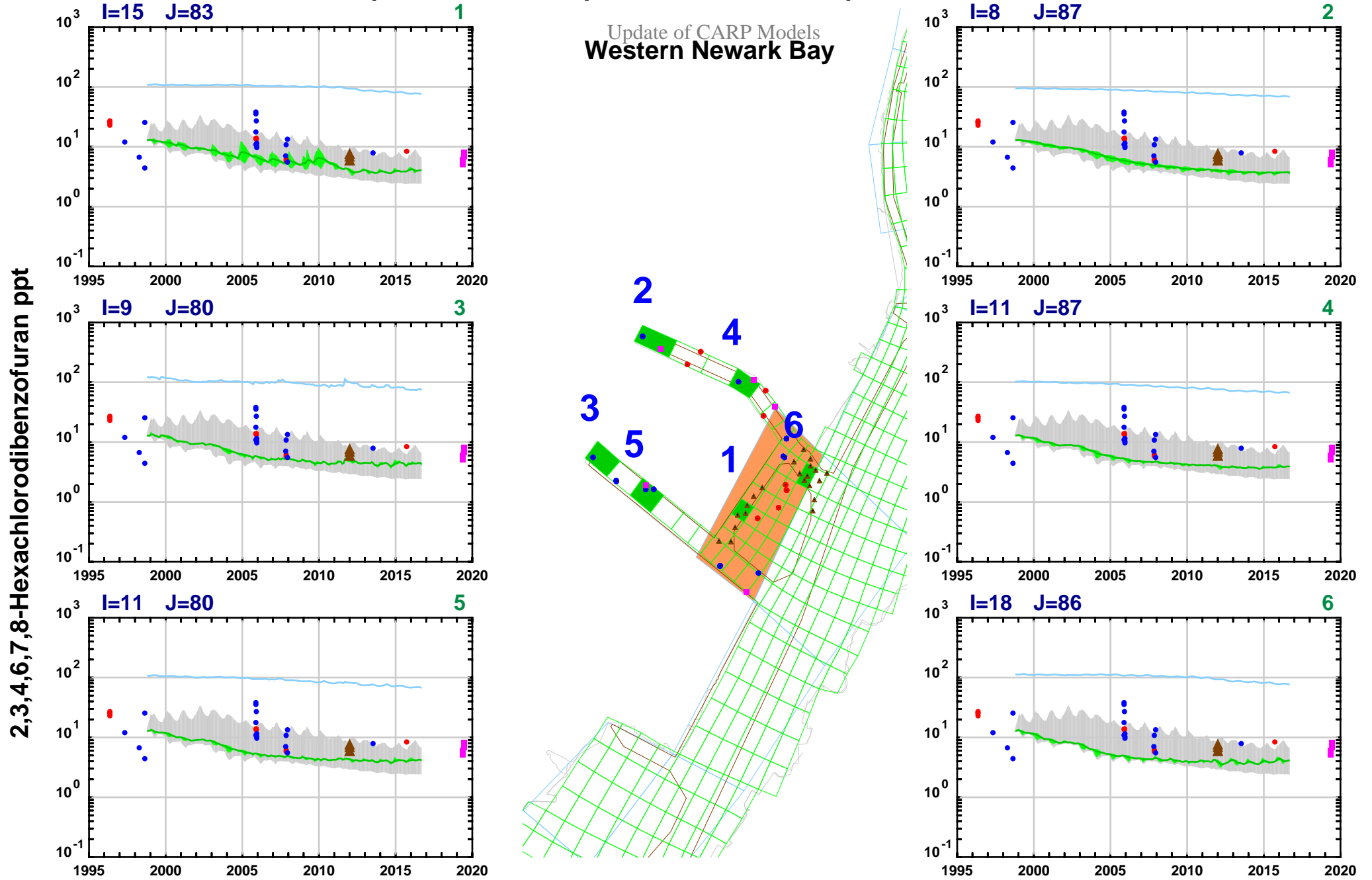


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



**RUN18\_S4\_R2**

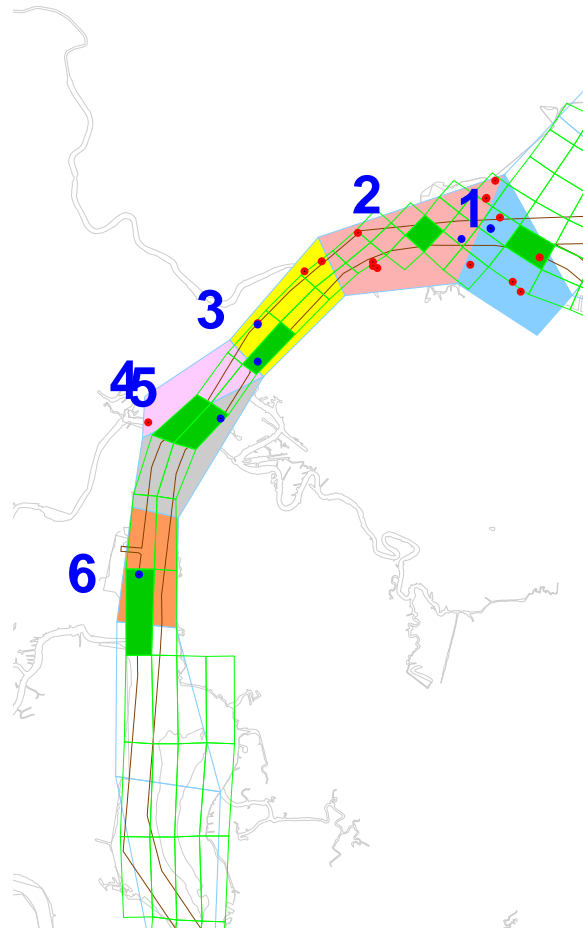
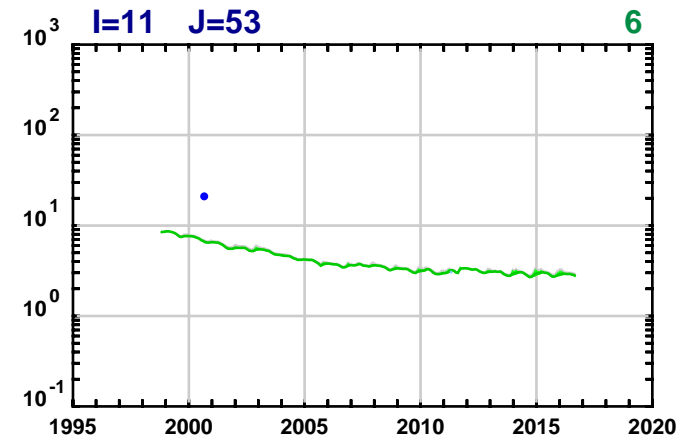
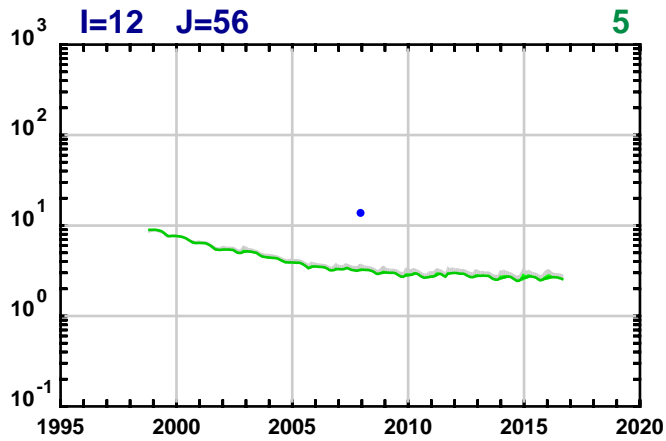
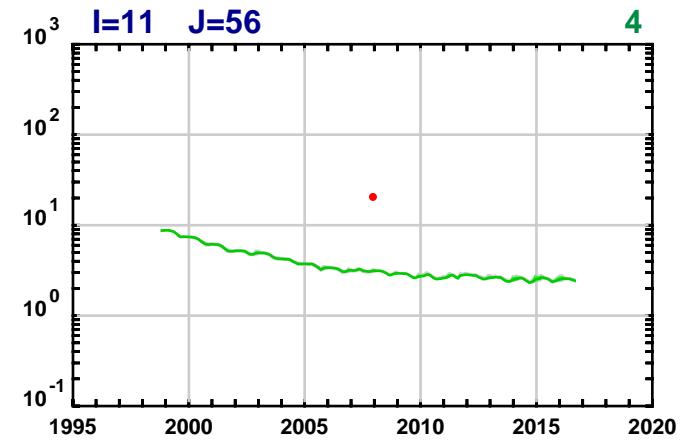
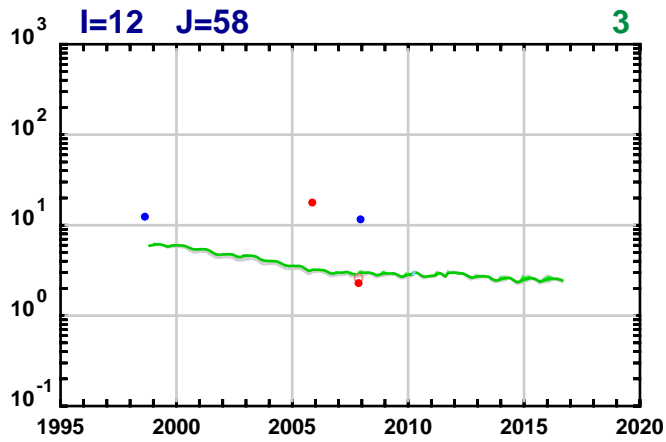
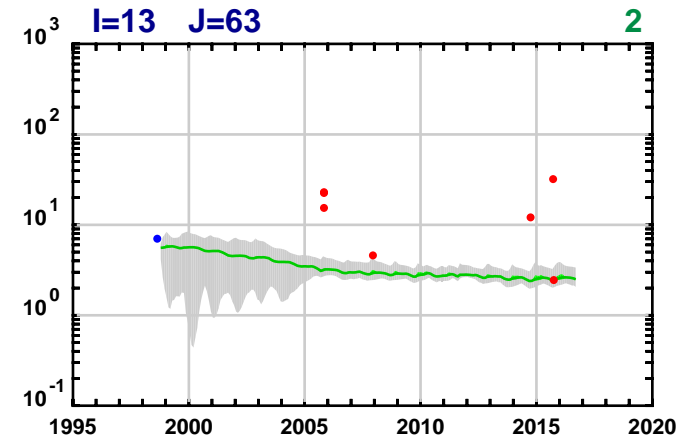
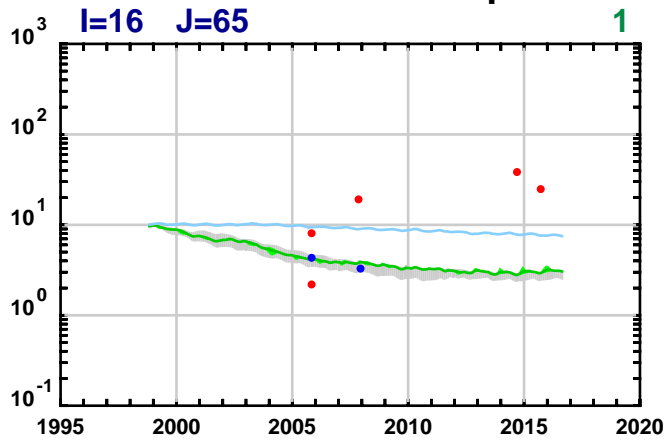
**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

2,3,4,6,7,8-Hexachlorodibenzofuran ppt



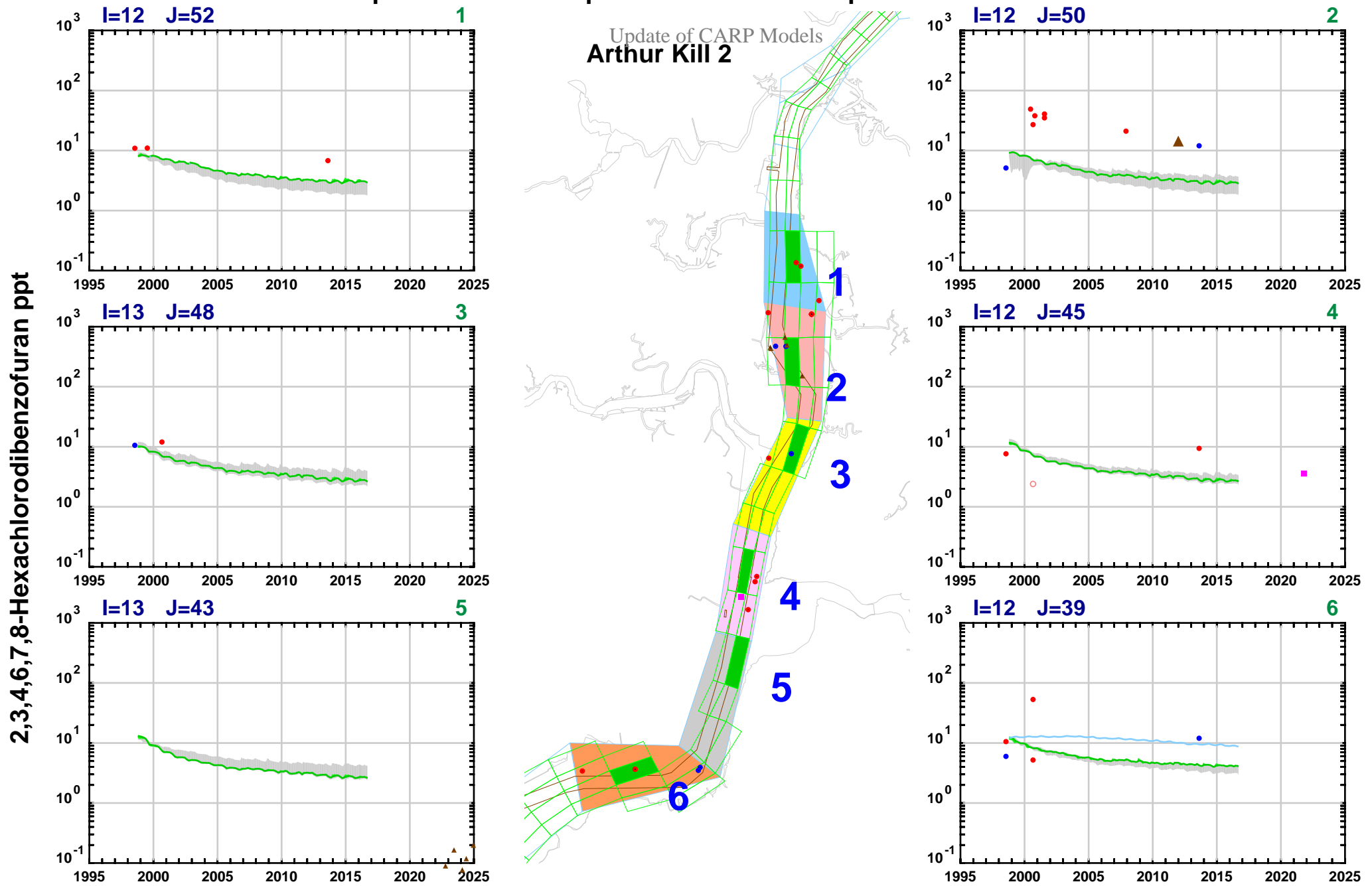
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



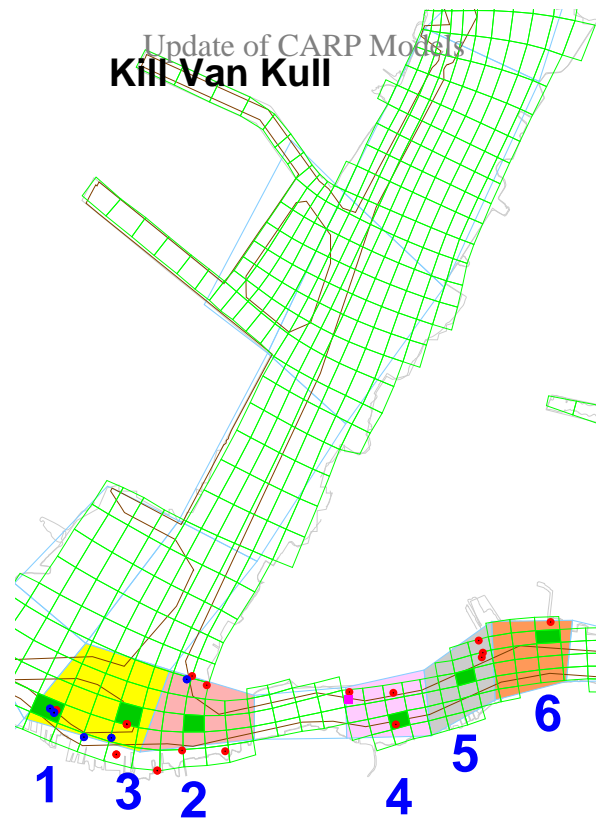
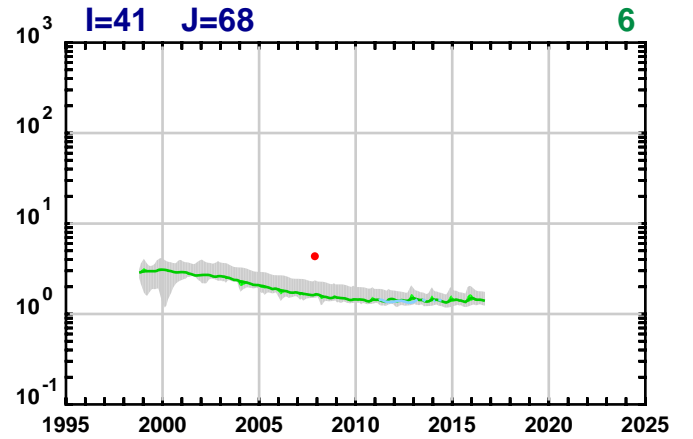
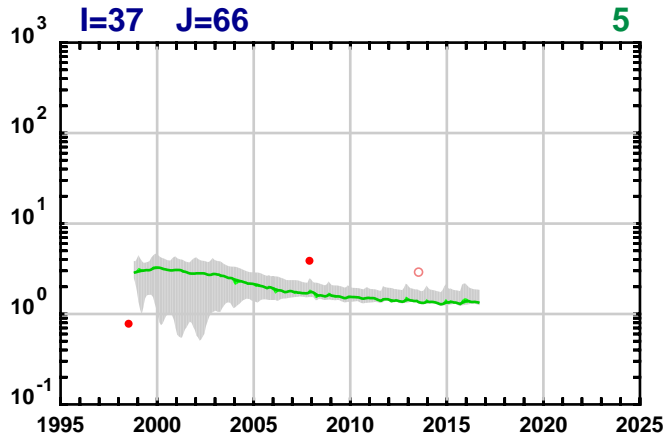
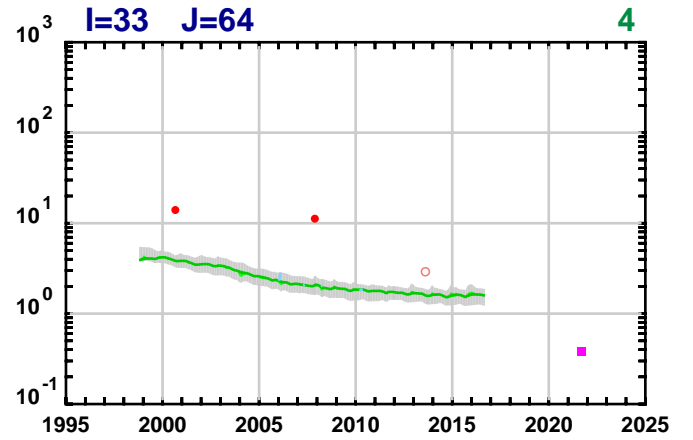
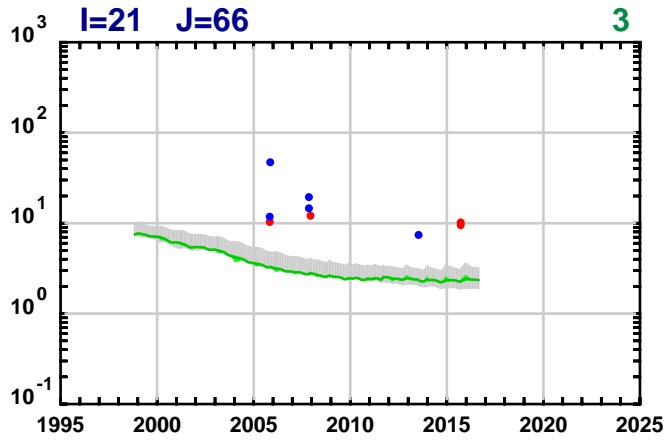
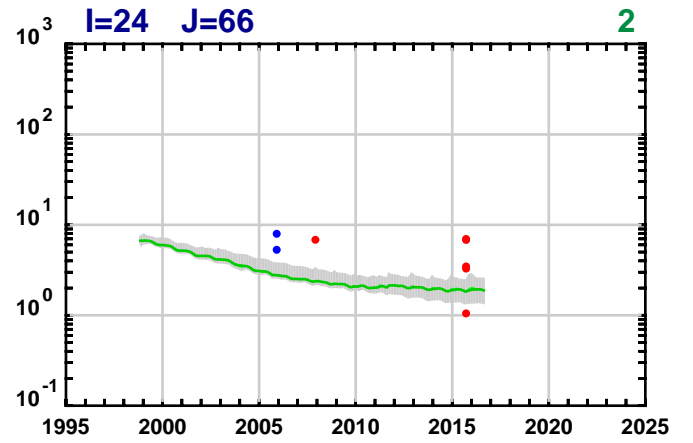
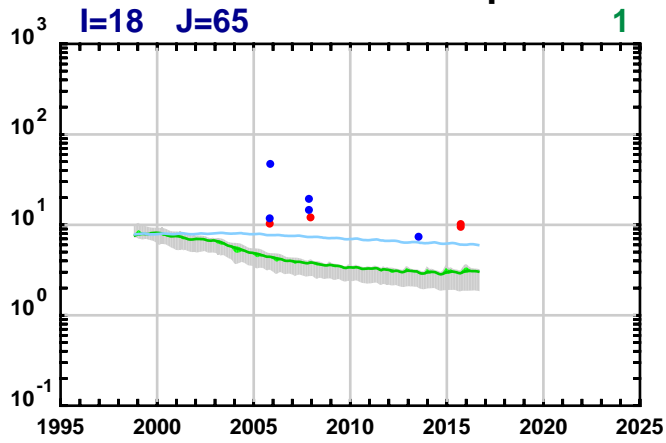
**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

2,3,4,6,7,8-Hexachlorodibenzofuran ppt

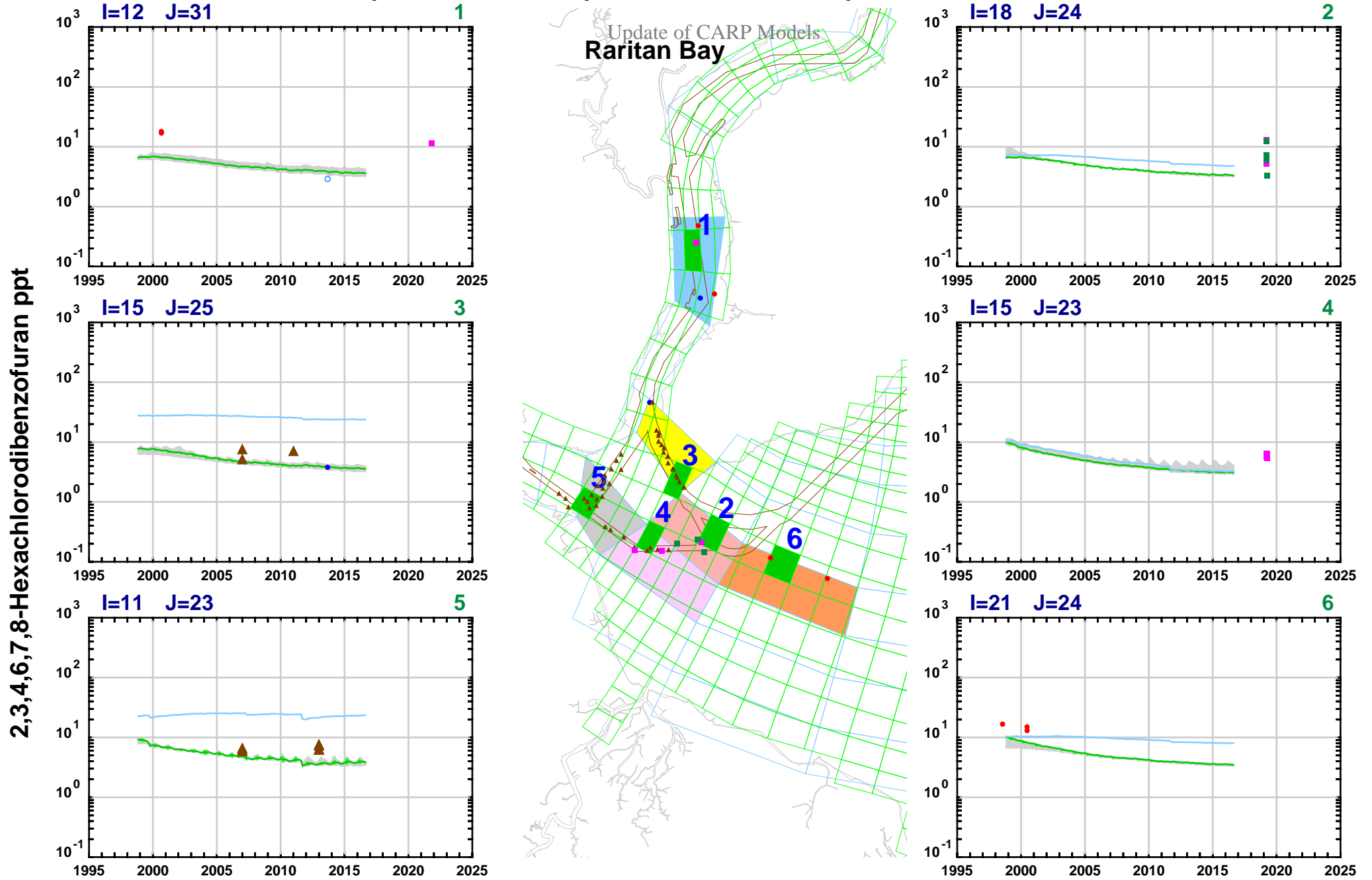


**RUN18\_S4\_R2**

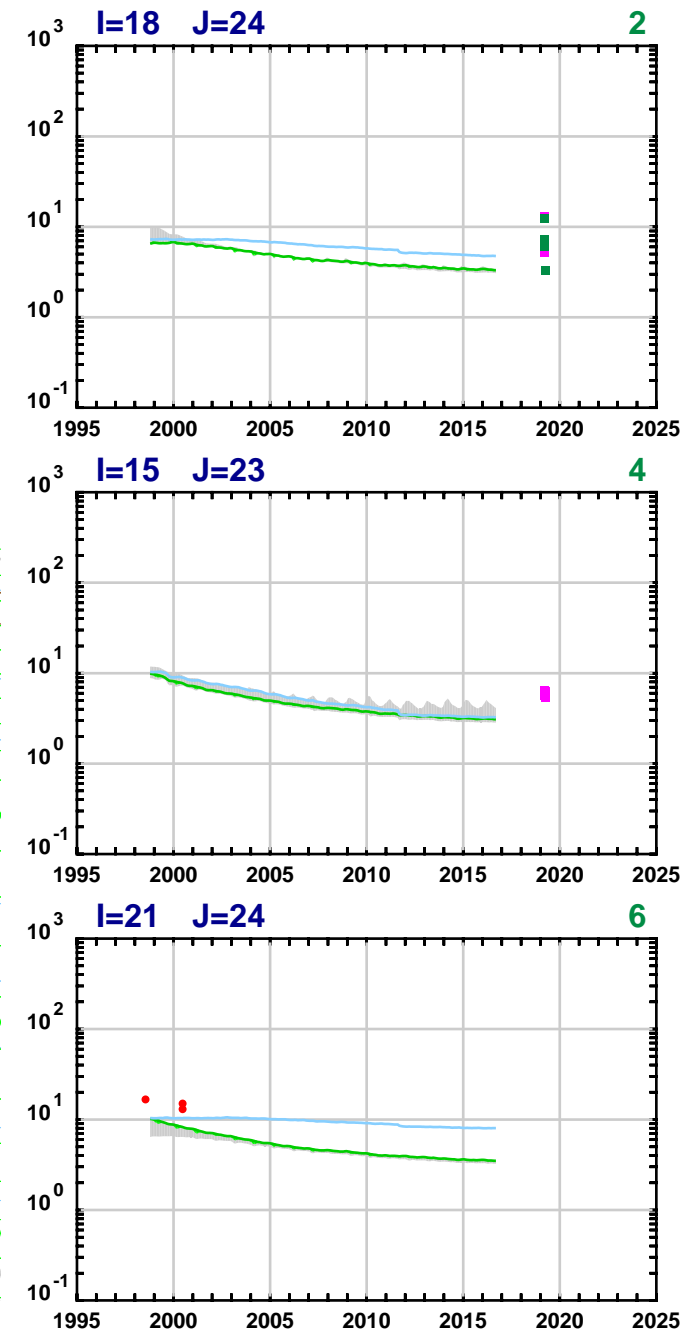
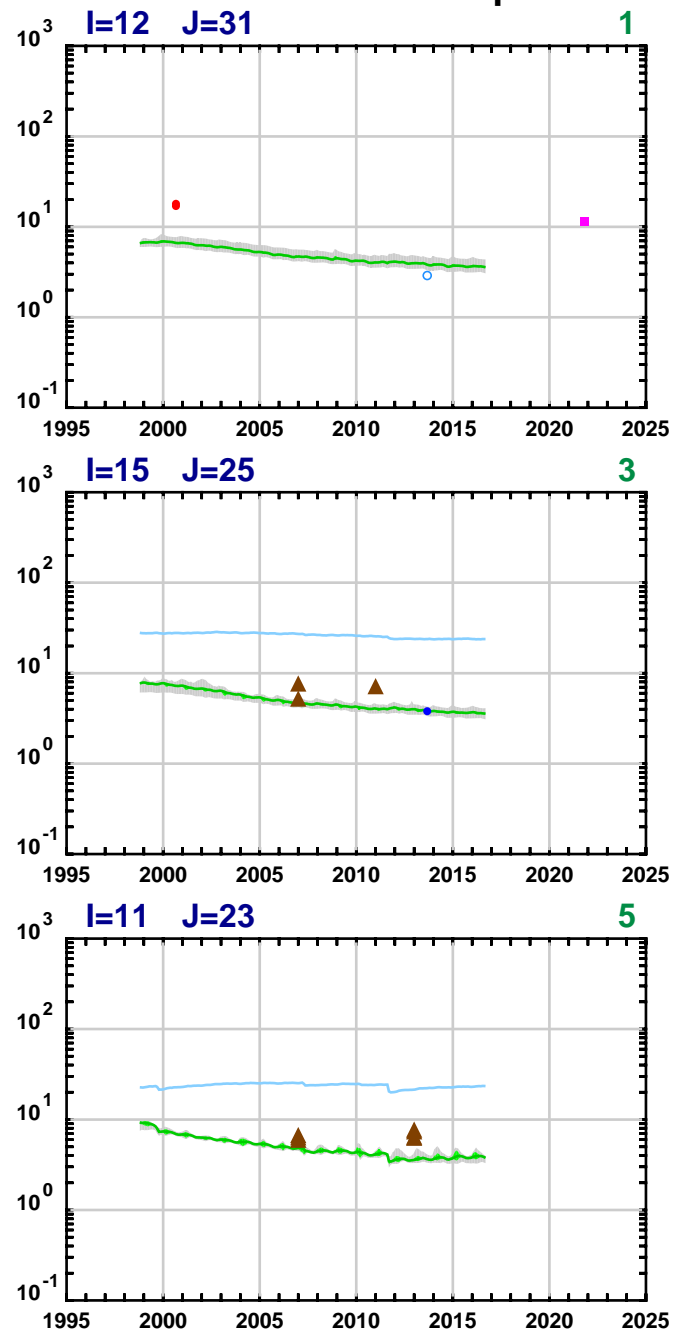
**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



2,3,4,6,7,8-Hexachlorodibenzofuran ppt

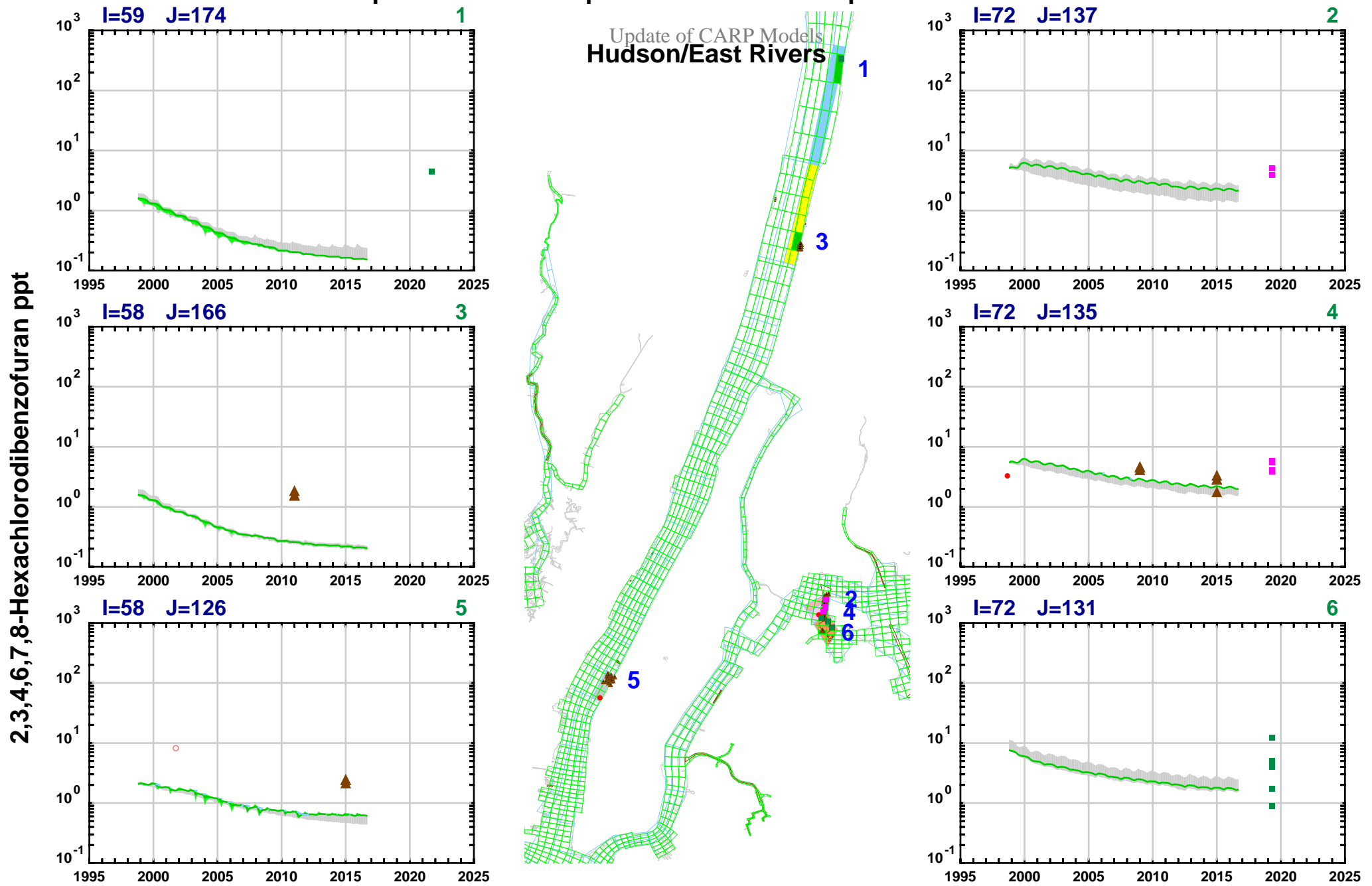


**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



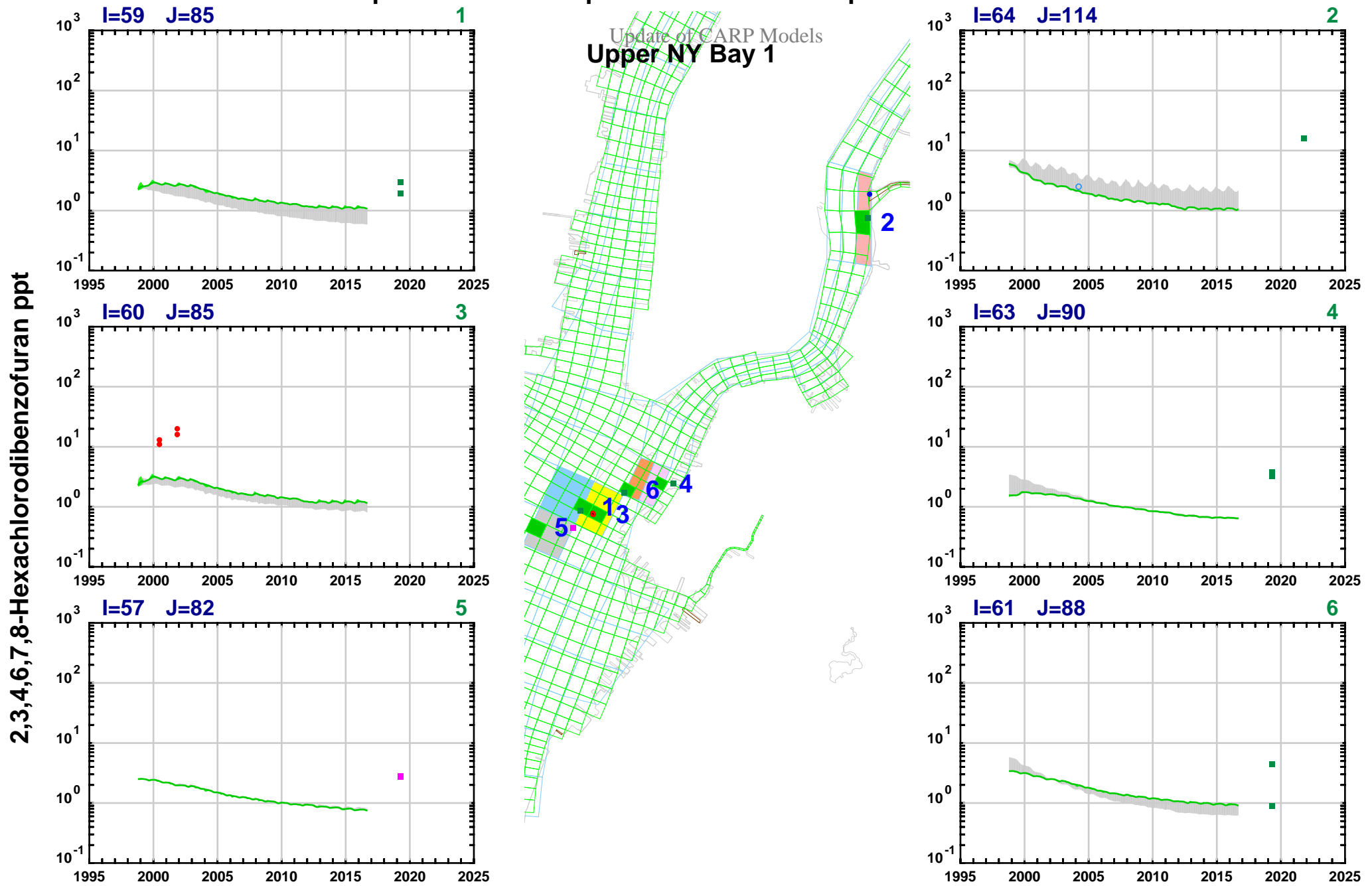
Update of CARP Models  
Hudson/East Rivers

RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



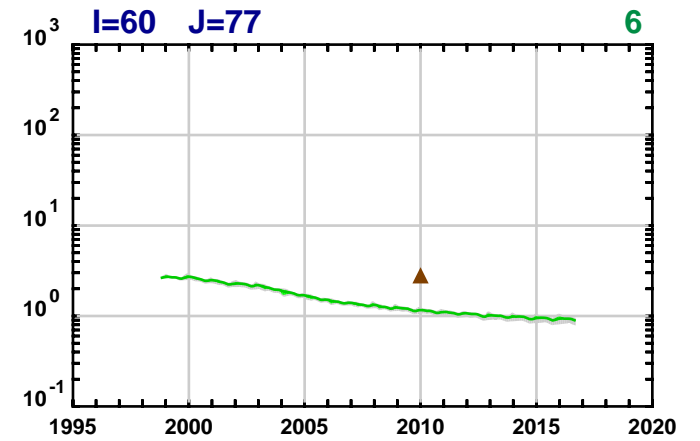
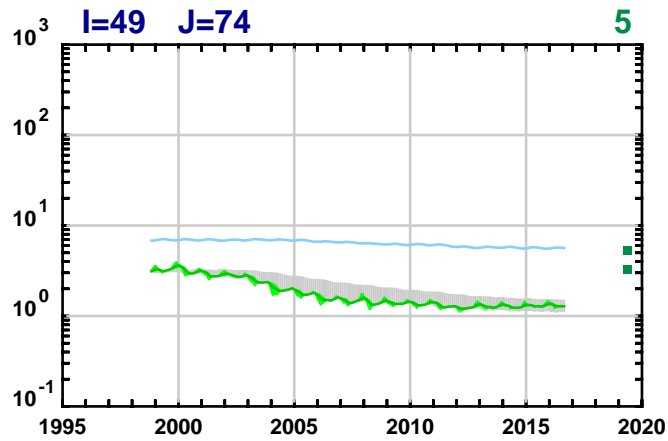
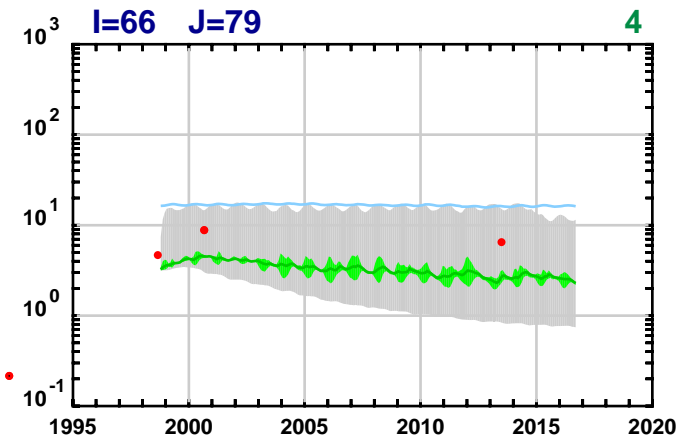
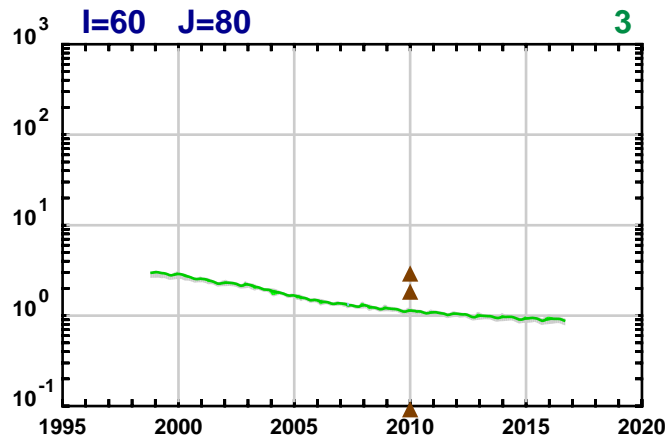
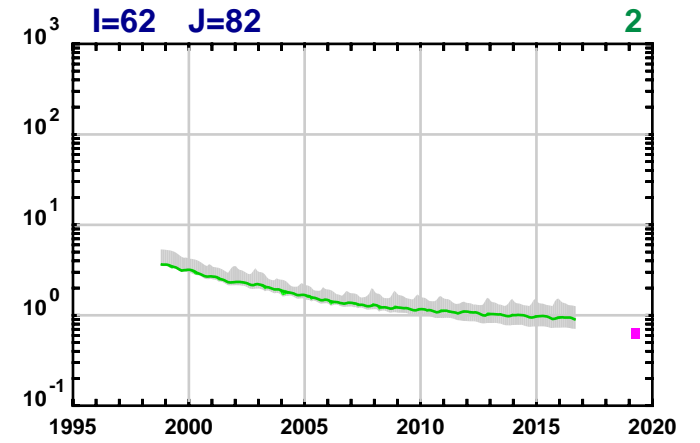
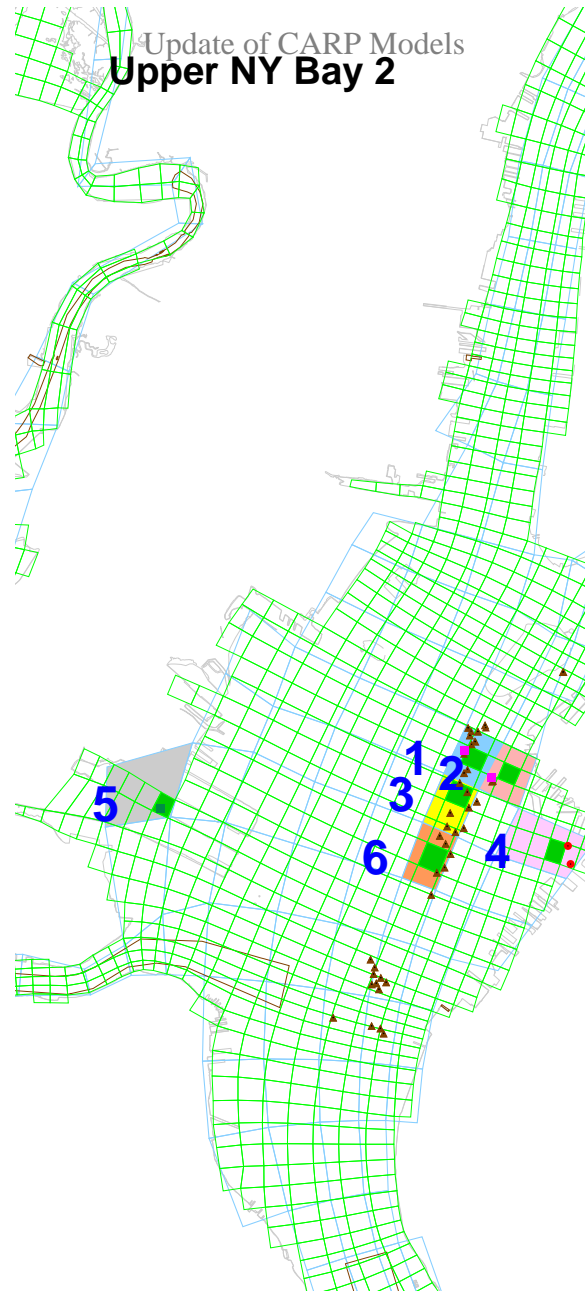
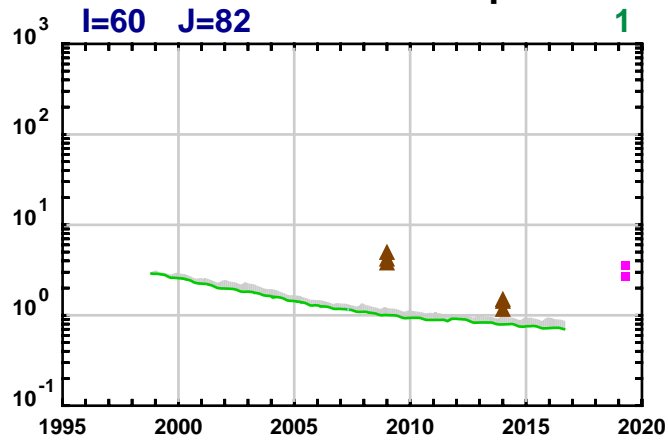
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

2,3,4,6,7,8-Hexachlorodibenzofuran ppt



RUN18\_S4\_R2

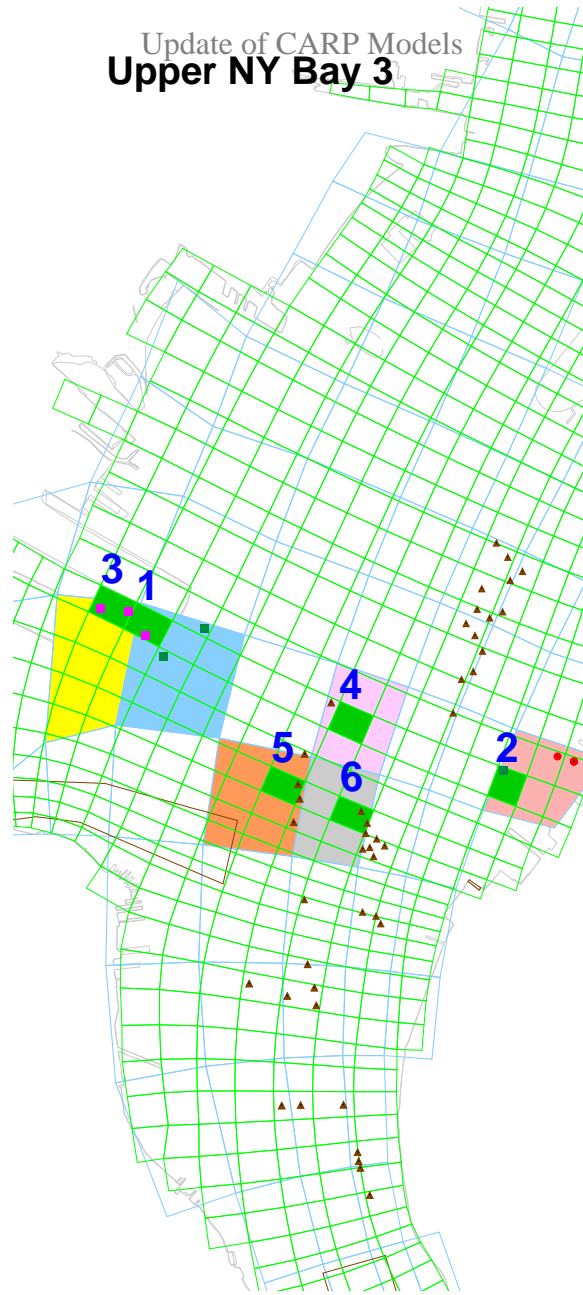
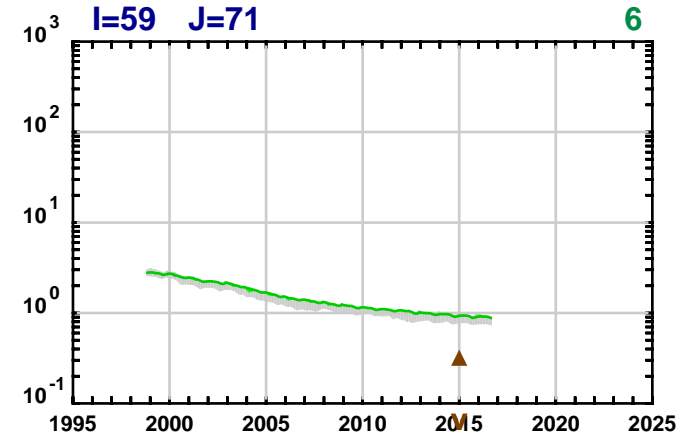
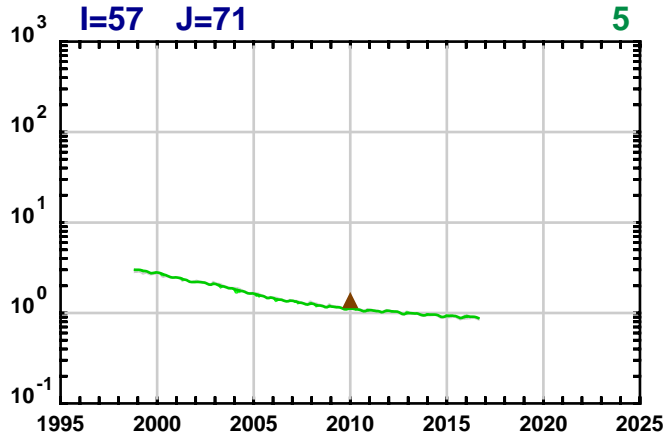
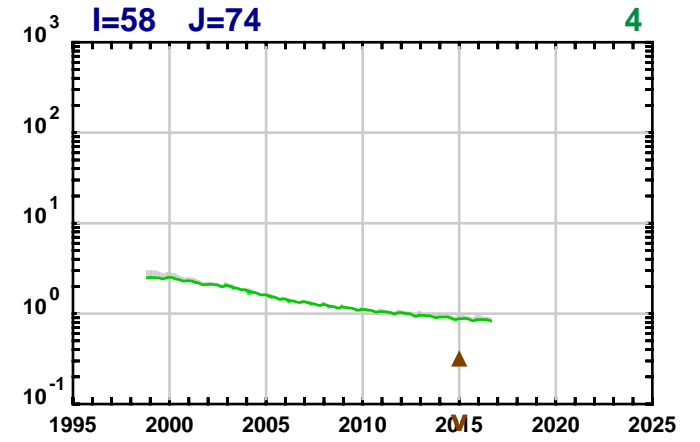
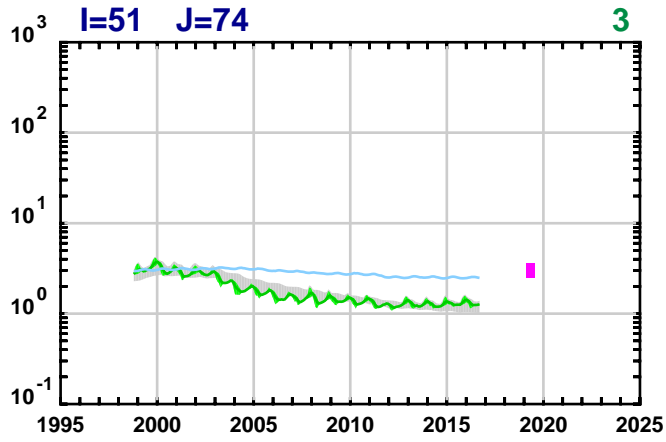
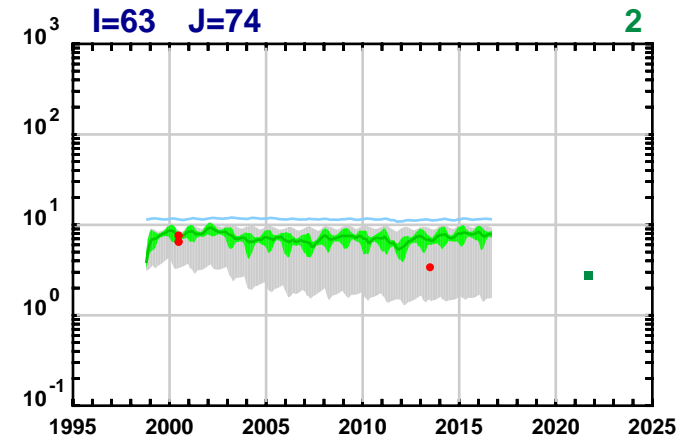
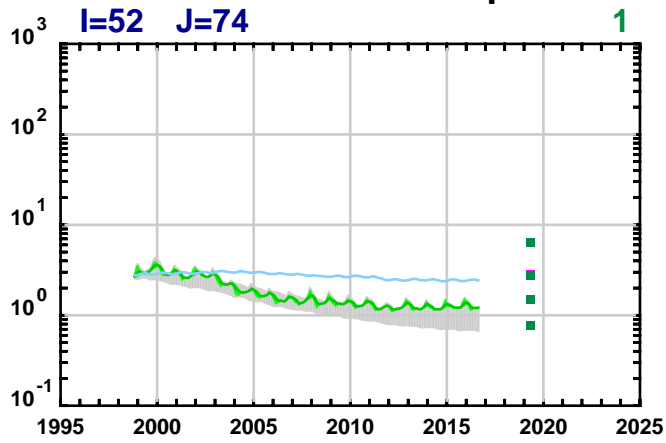
Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

2,3,4,6,7,8-Hexachlorodibenzofuran ppt



RUN18\_S4\_R2

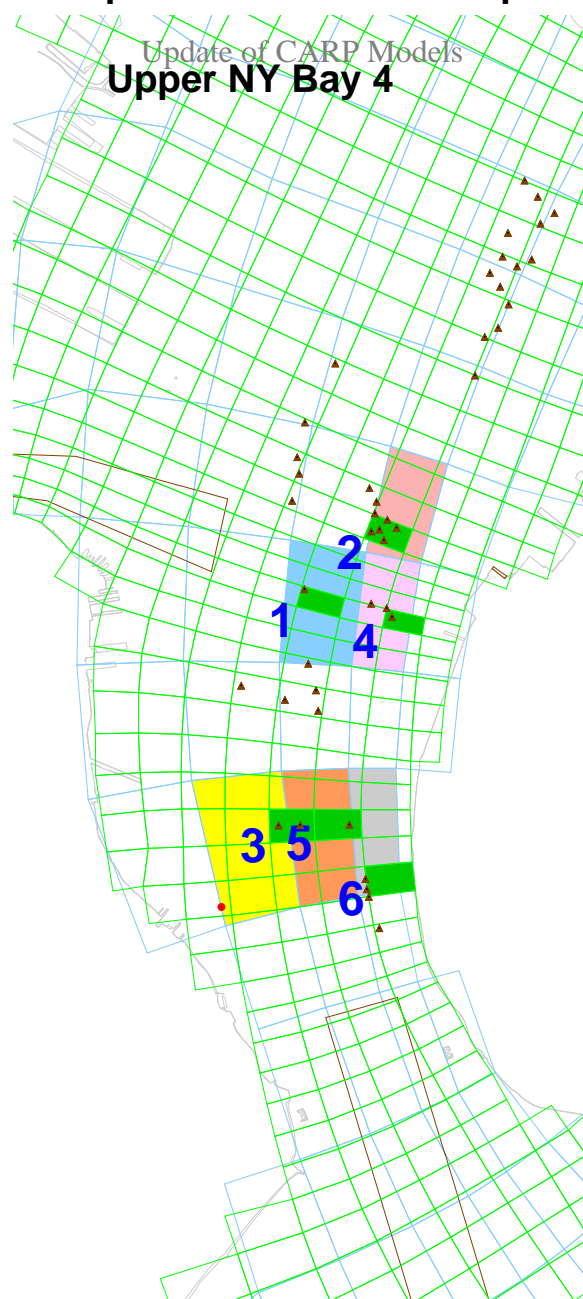
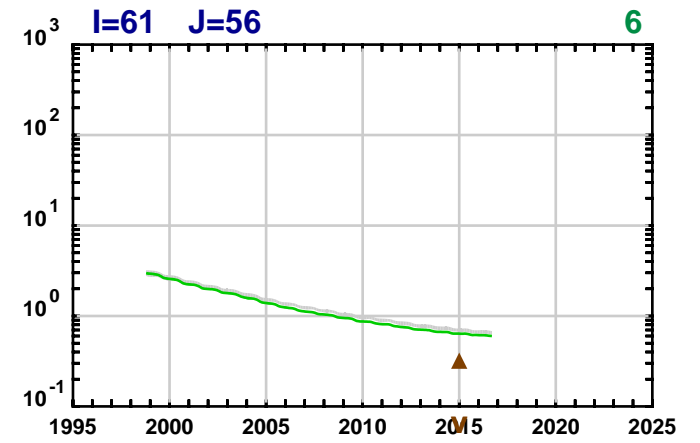
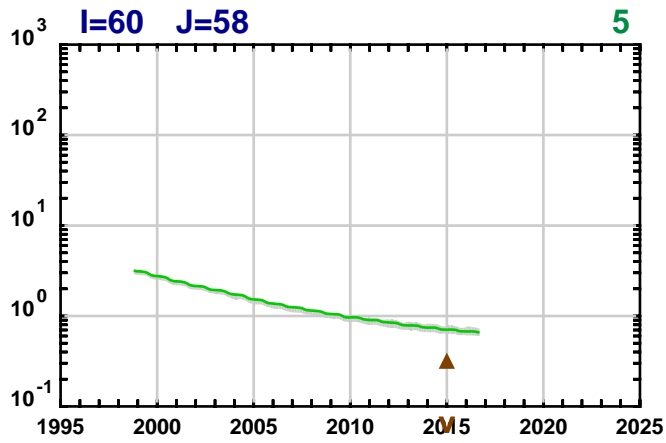
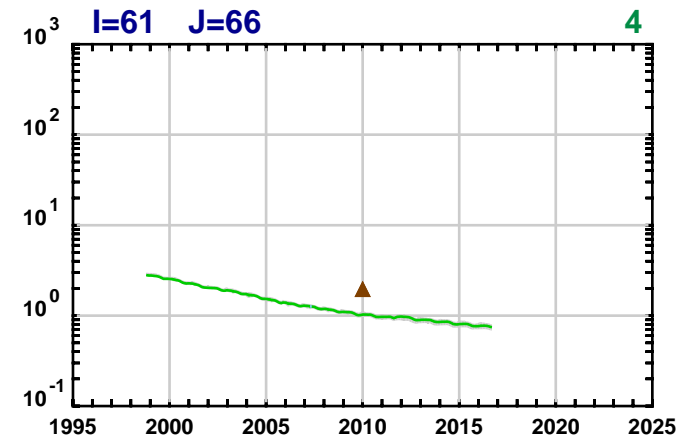
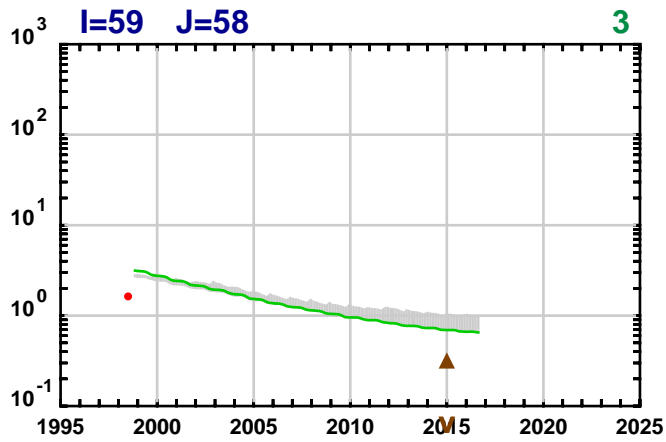
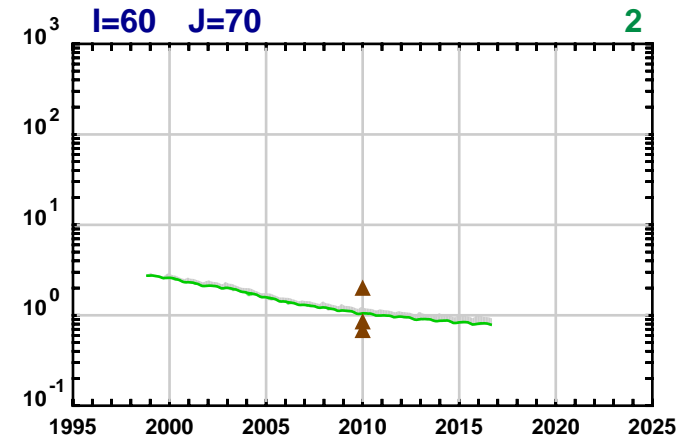
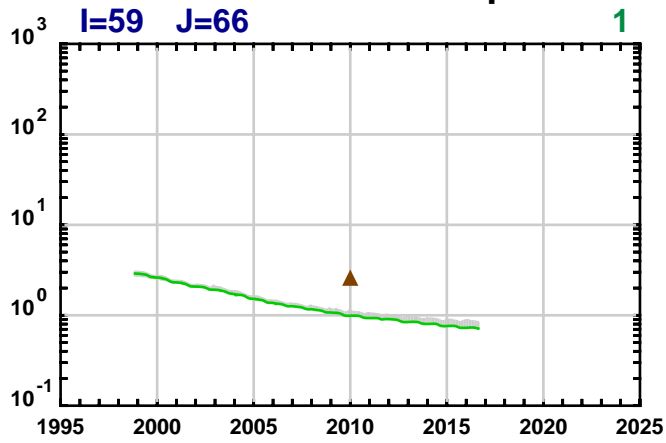
Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

2,3,4,6,7,8-Hexachlorodibenzofuran ppt



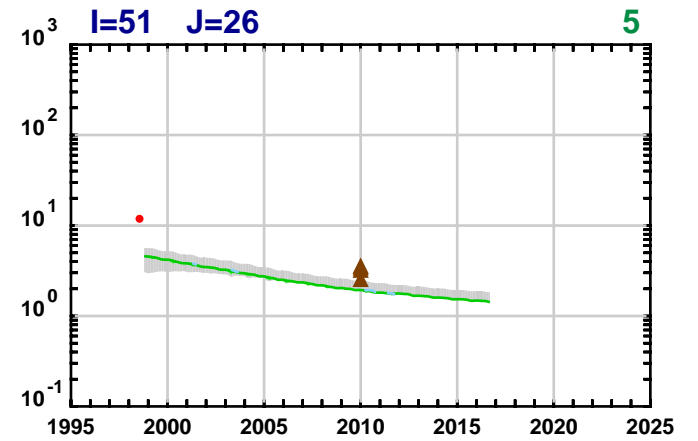
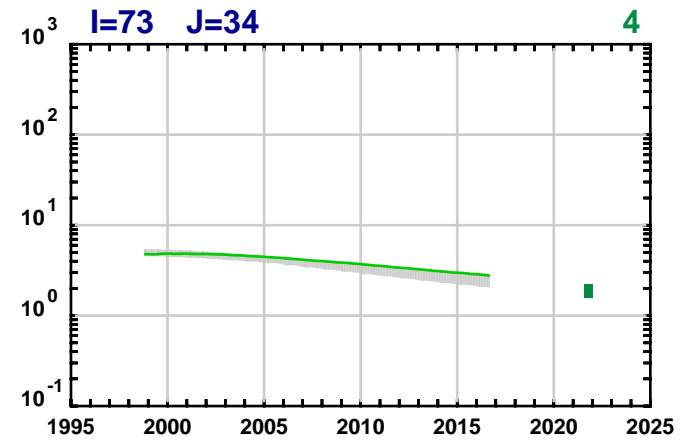
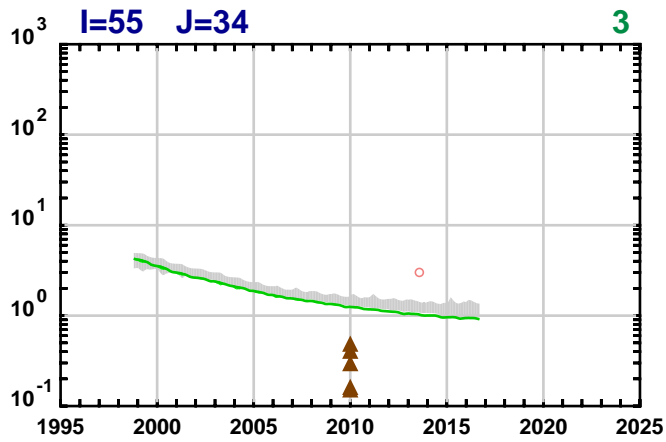
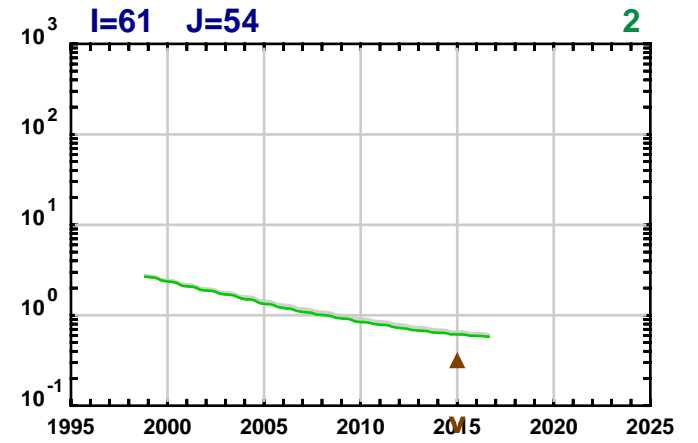
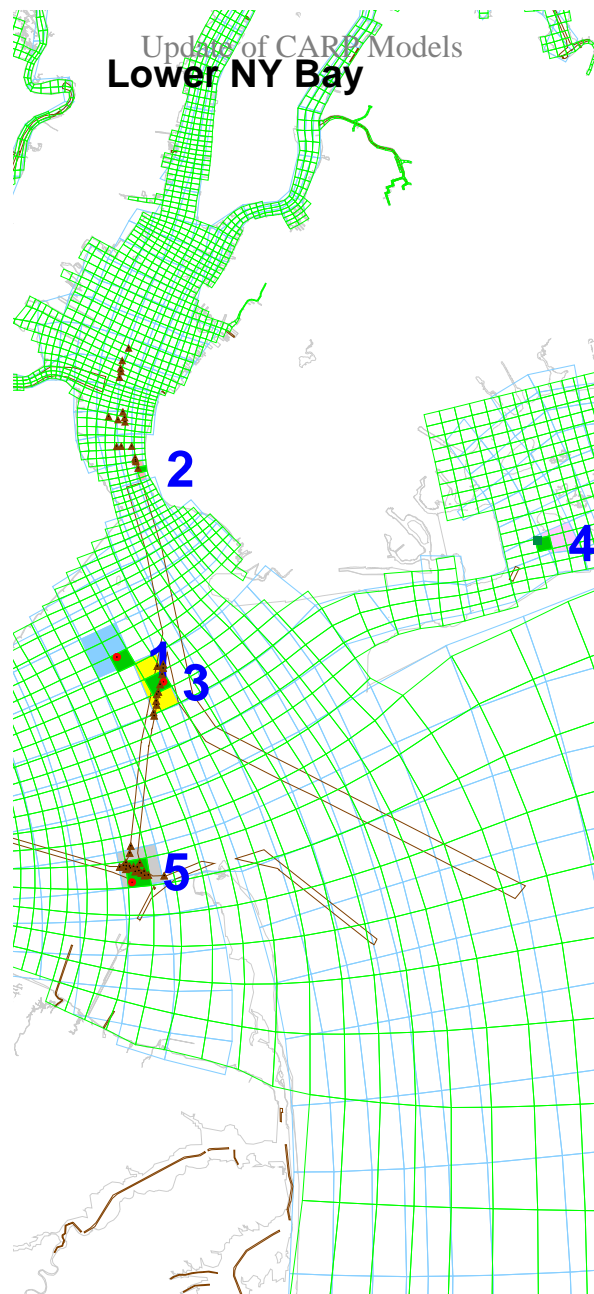
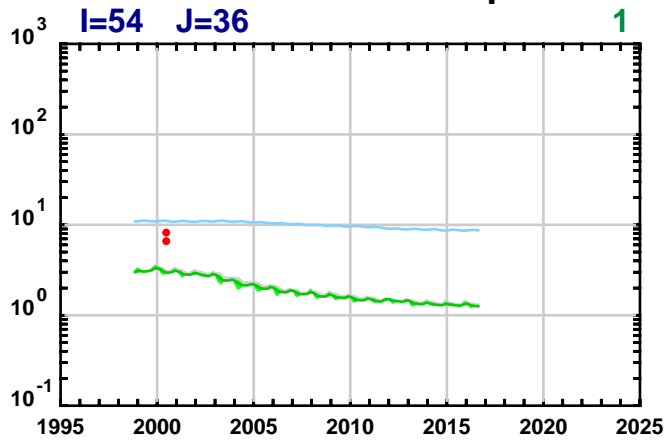
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

2,3,4,6,7,8-Hexachlorodibenzofuran ppt

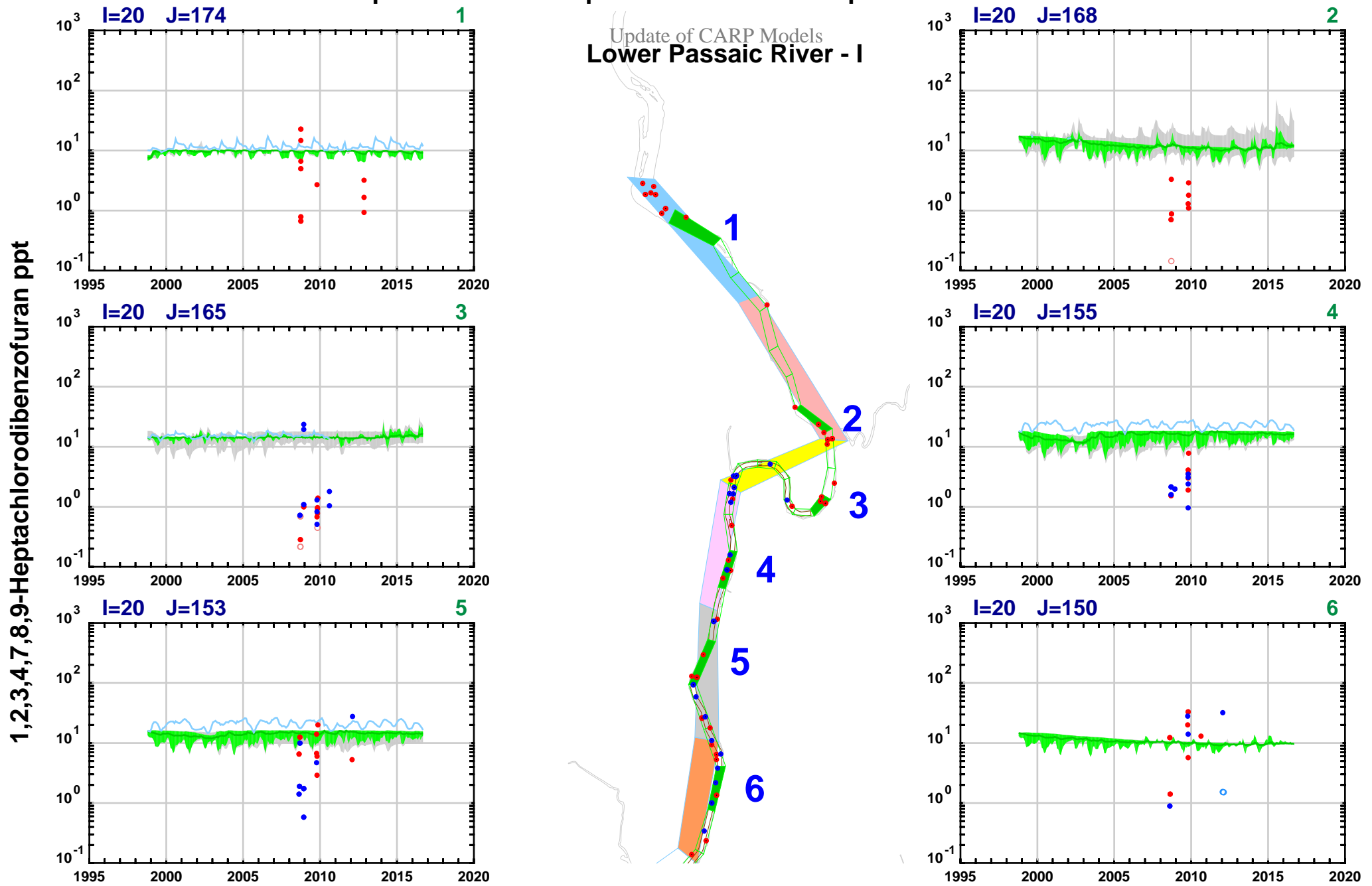


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

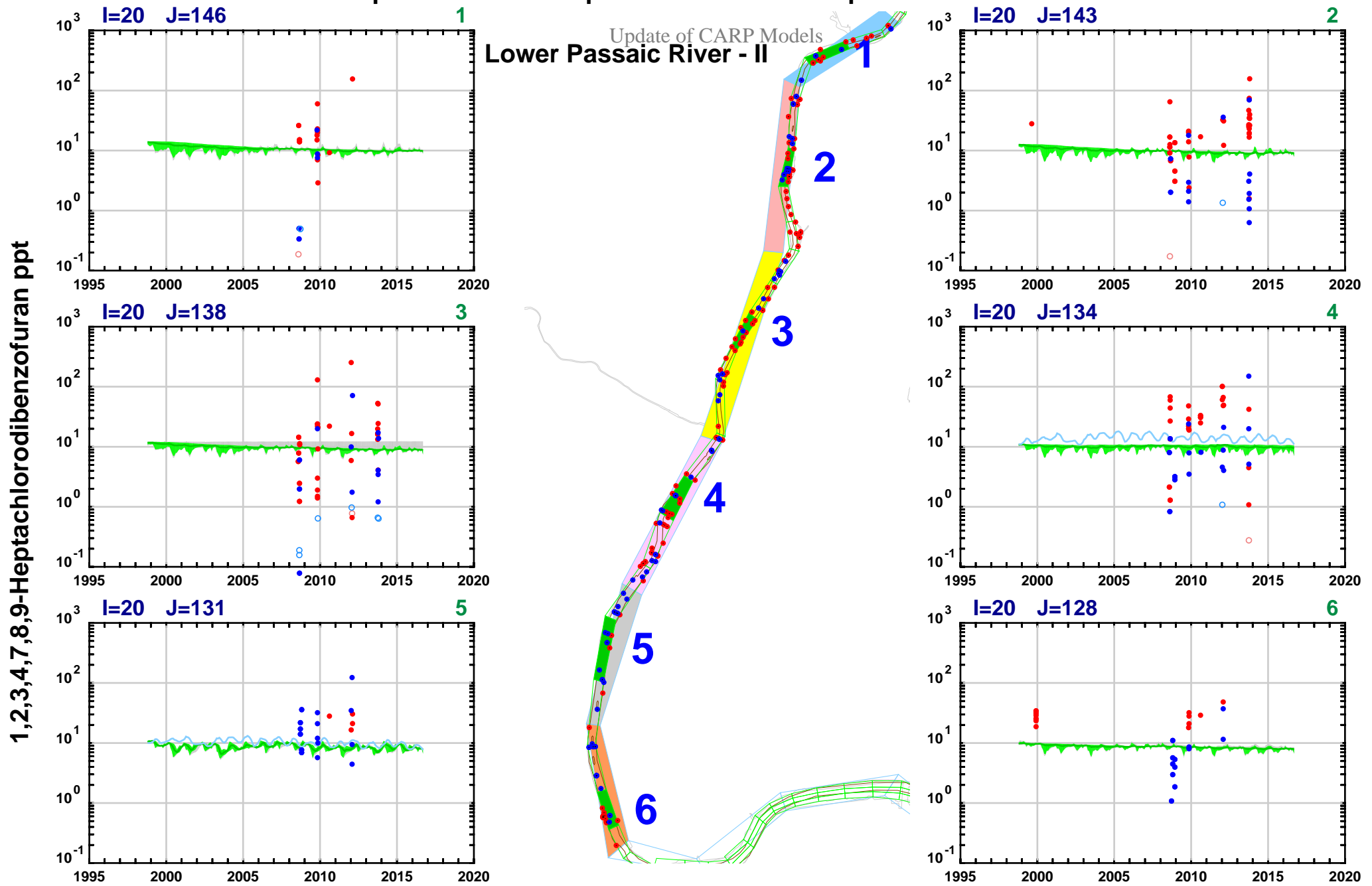


**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



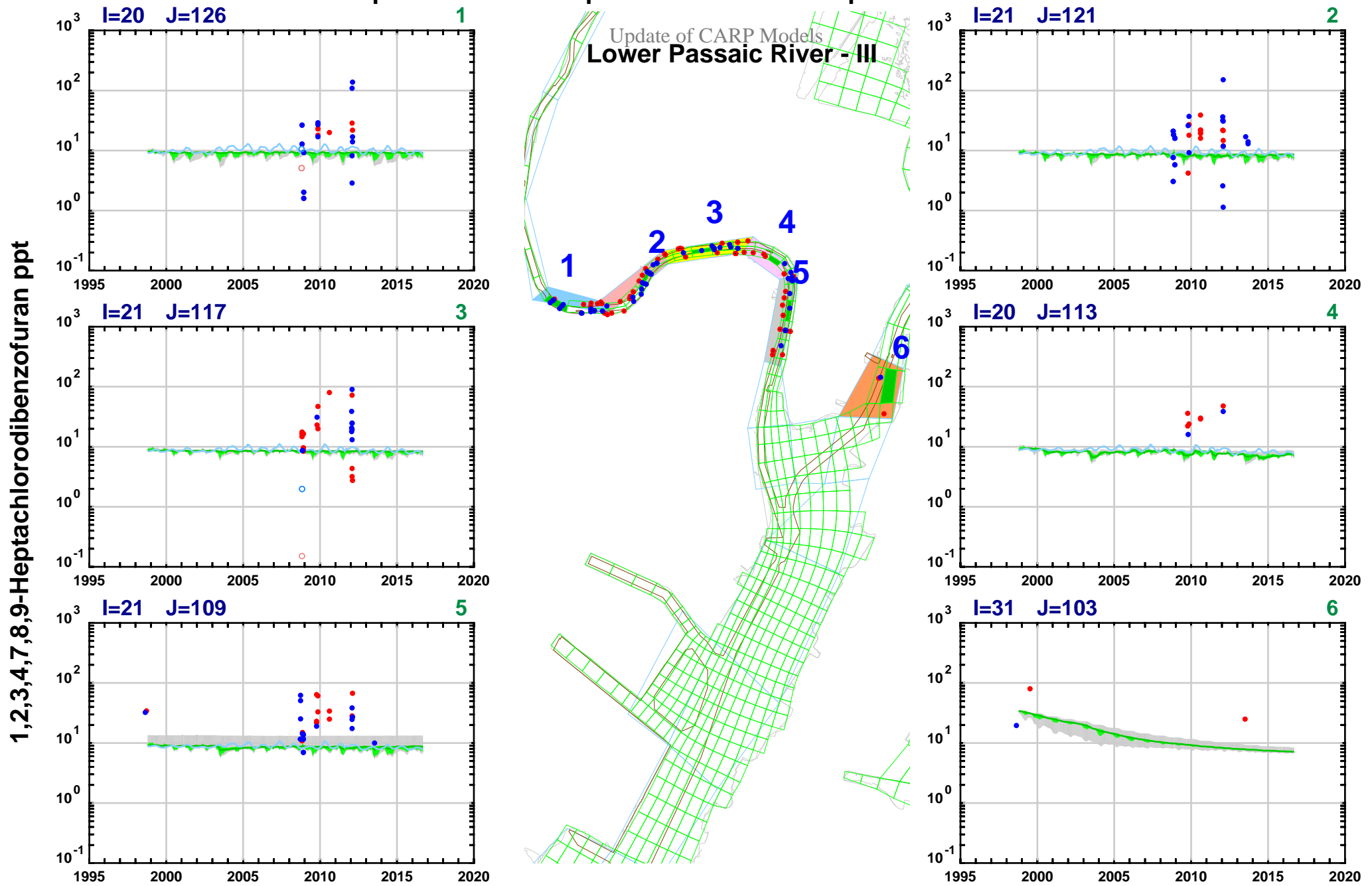
1,2,3,4,7,8,9-Heptachlorodibenzofuran ppt

**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

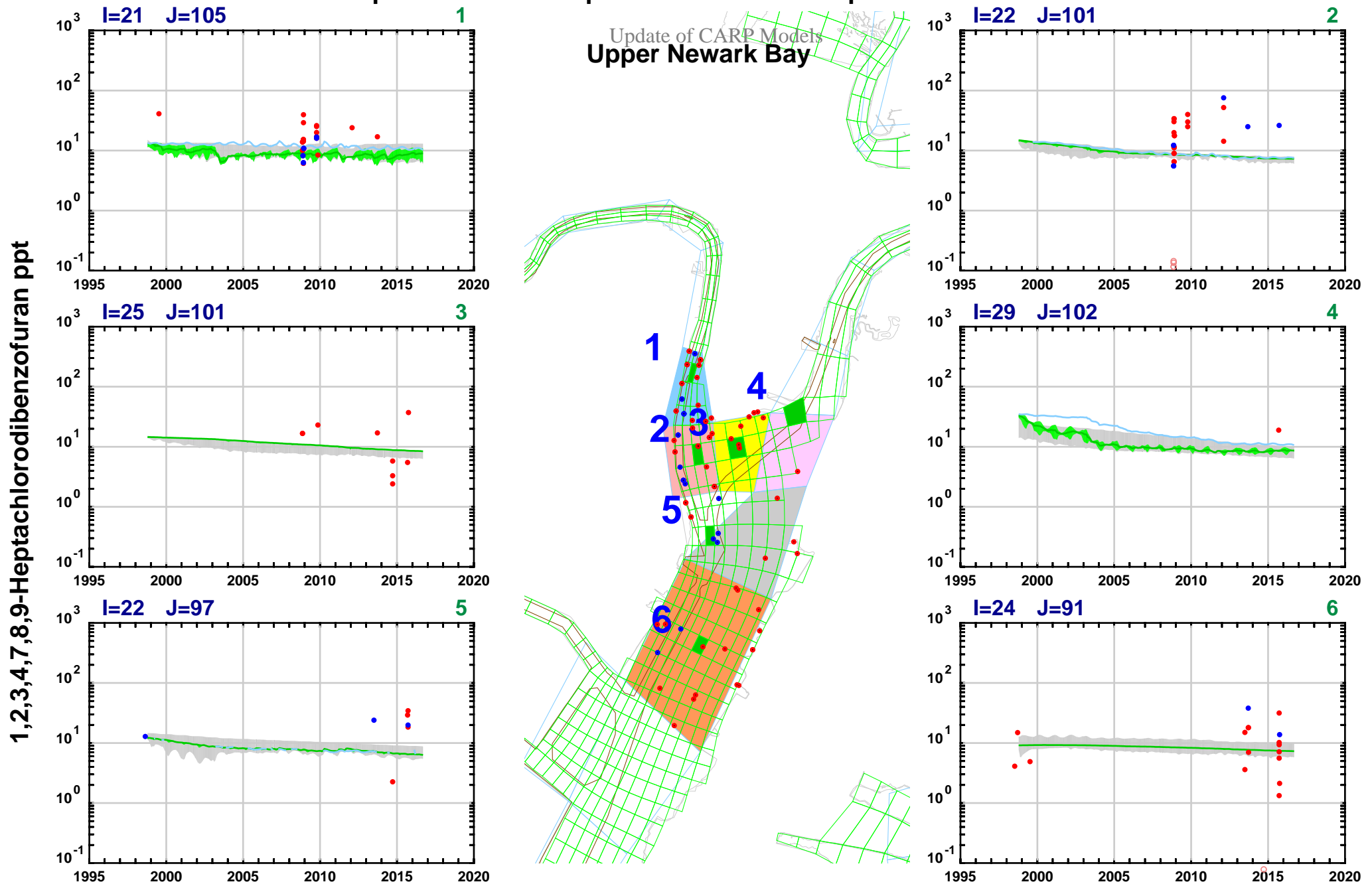


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

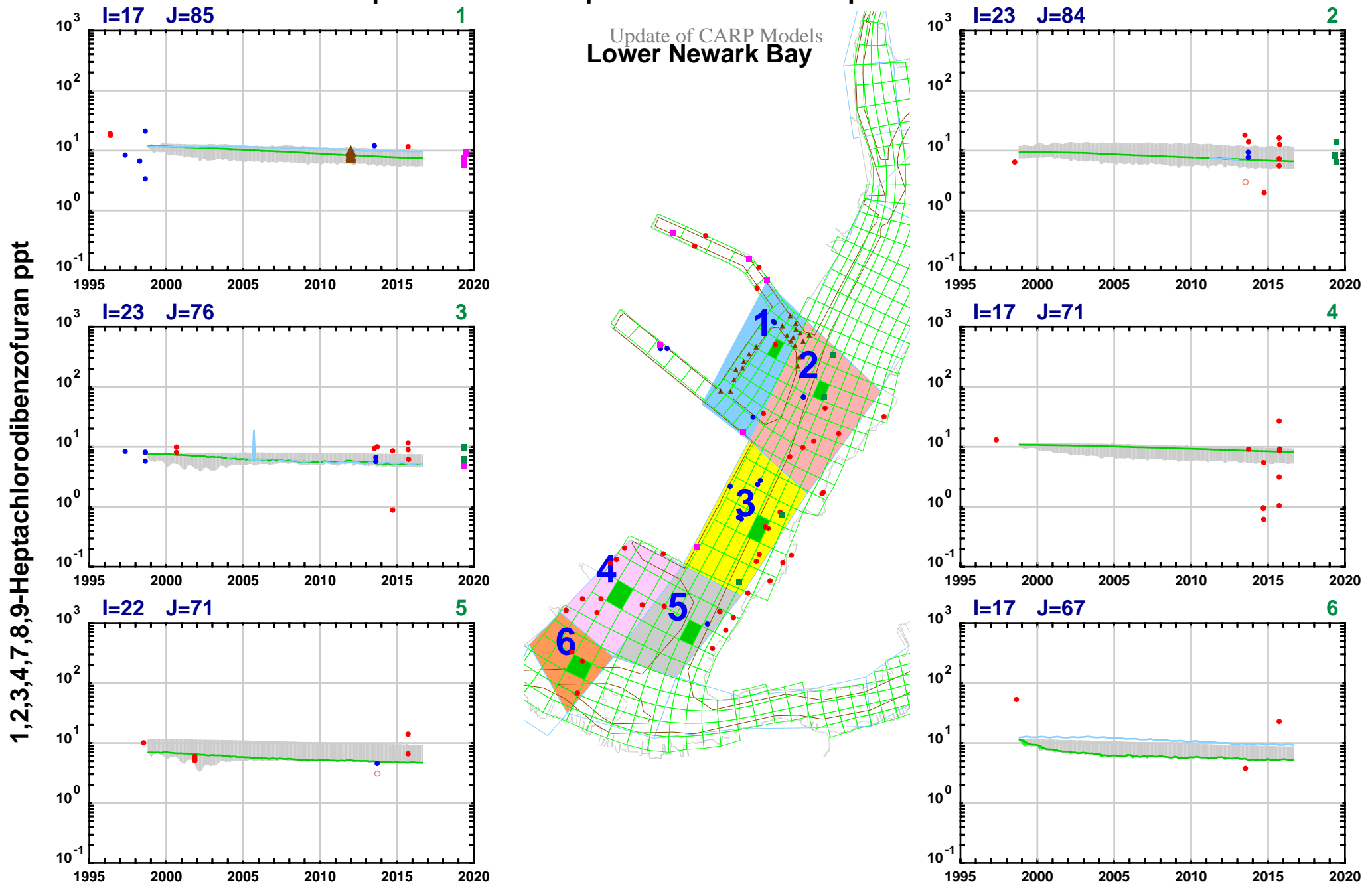


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



Update of CARP Models  
Lower Newark Bay

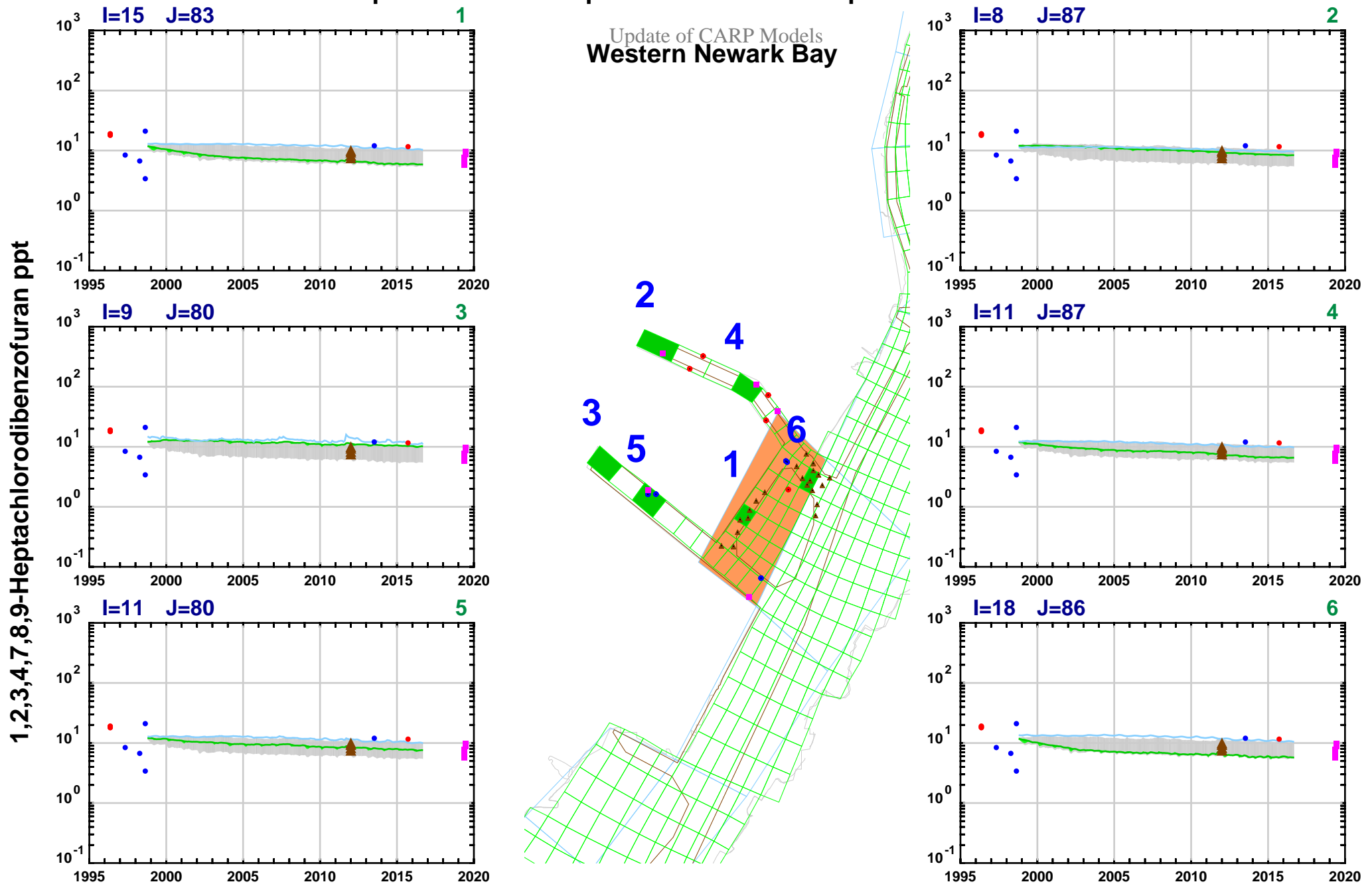
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



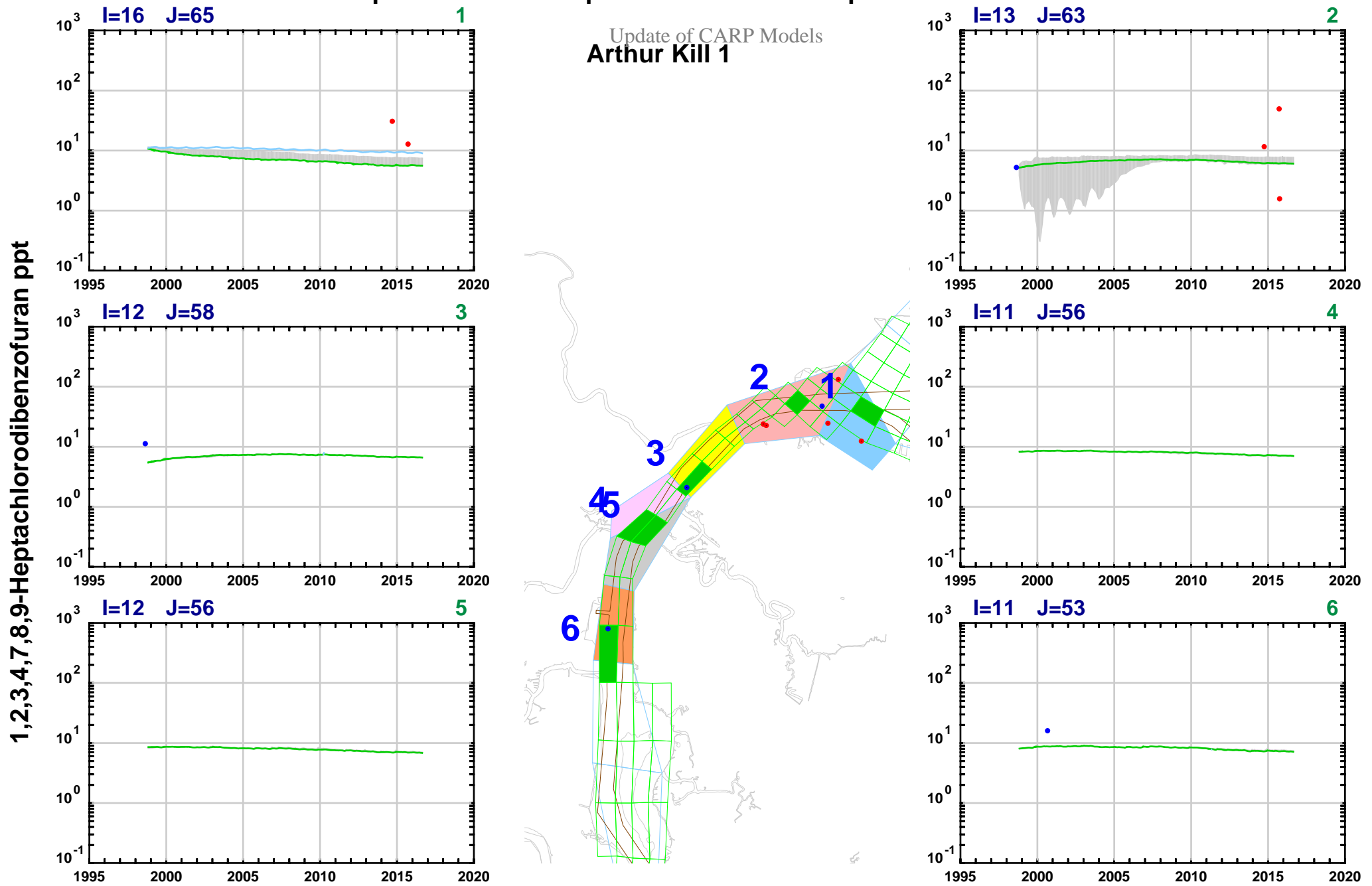
**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data    ● Off-channel data    ▲ Dredge data**  
**■ CARP2 In-channel    ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

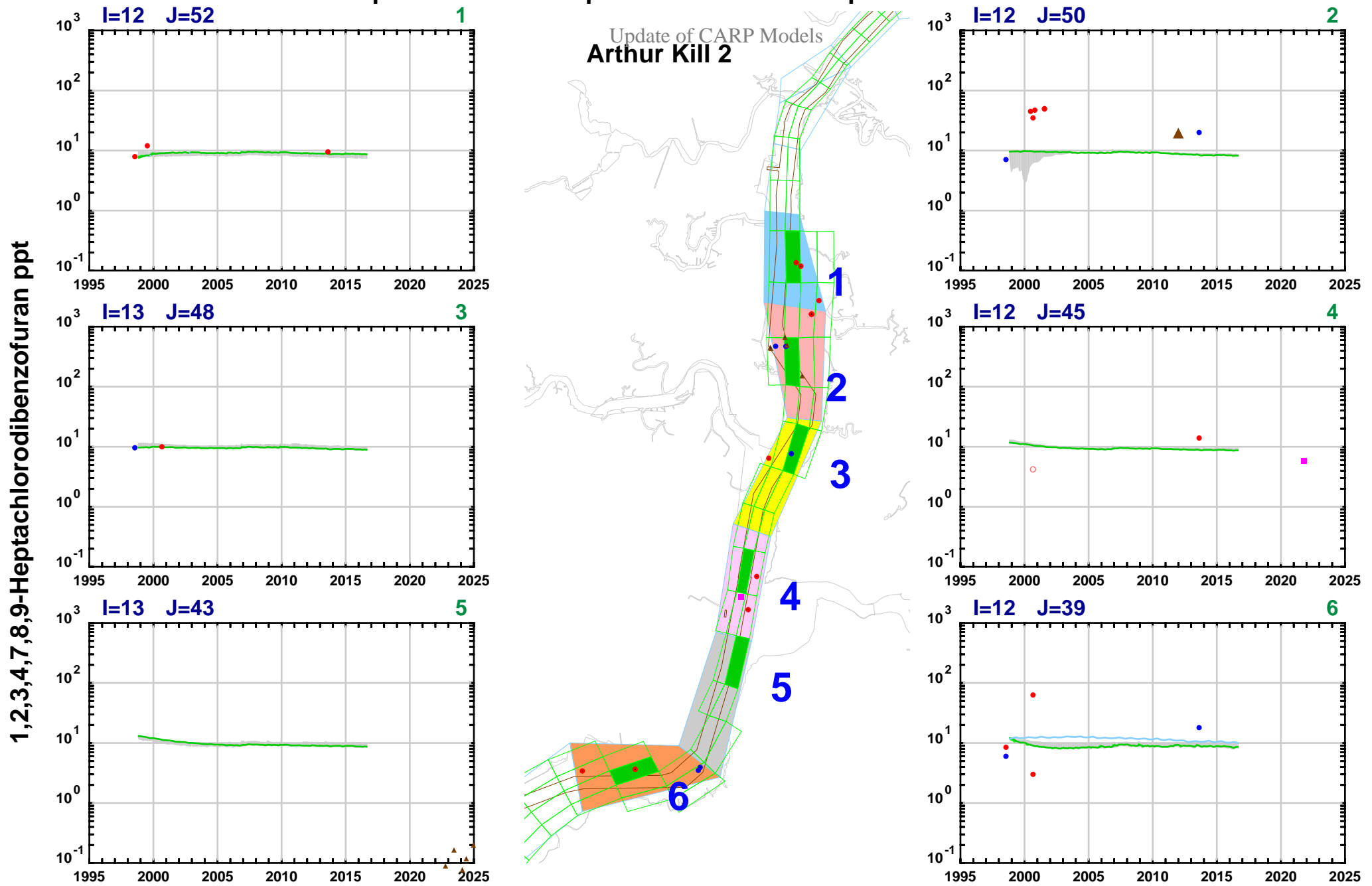


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

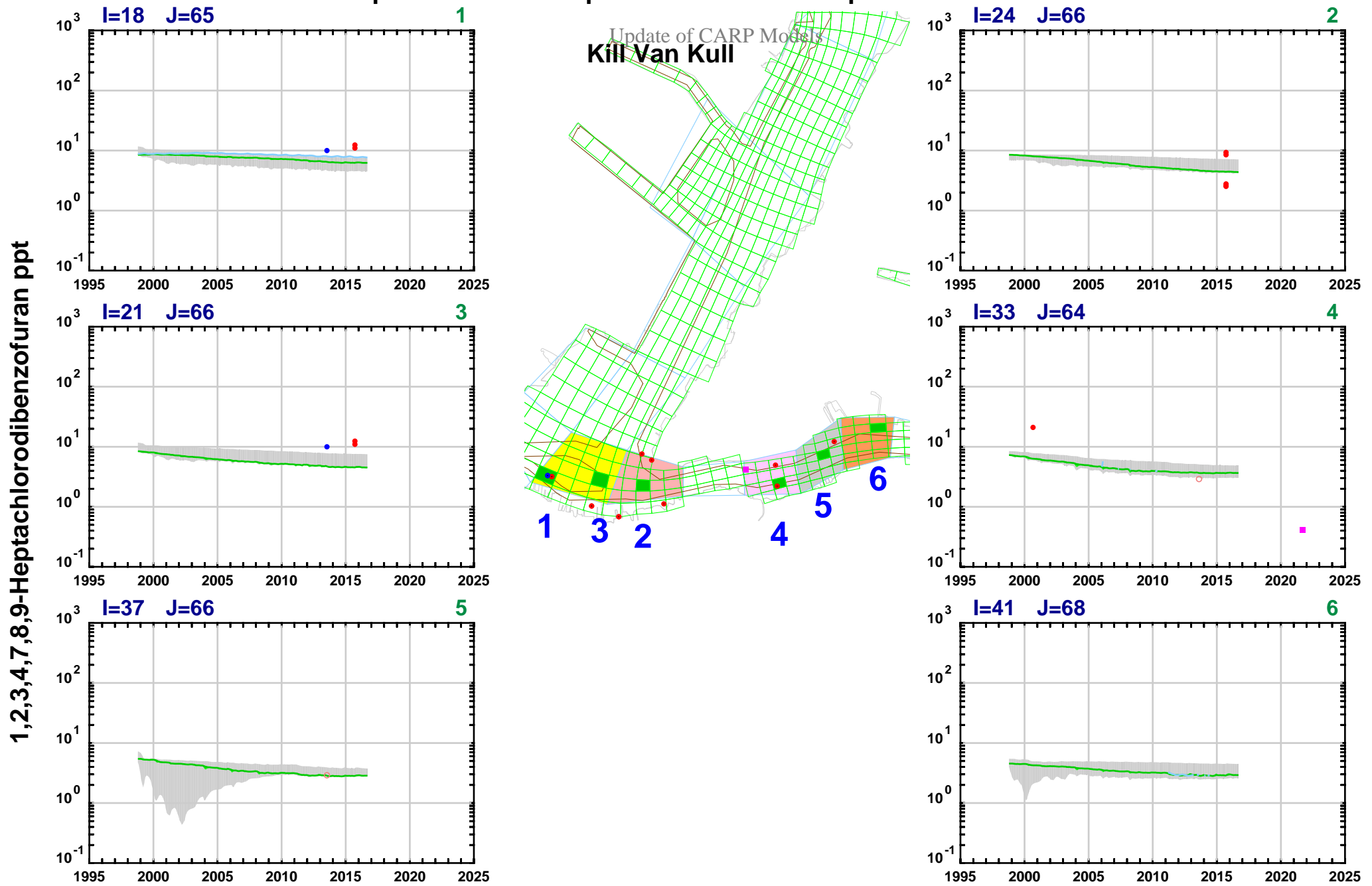


**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

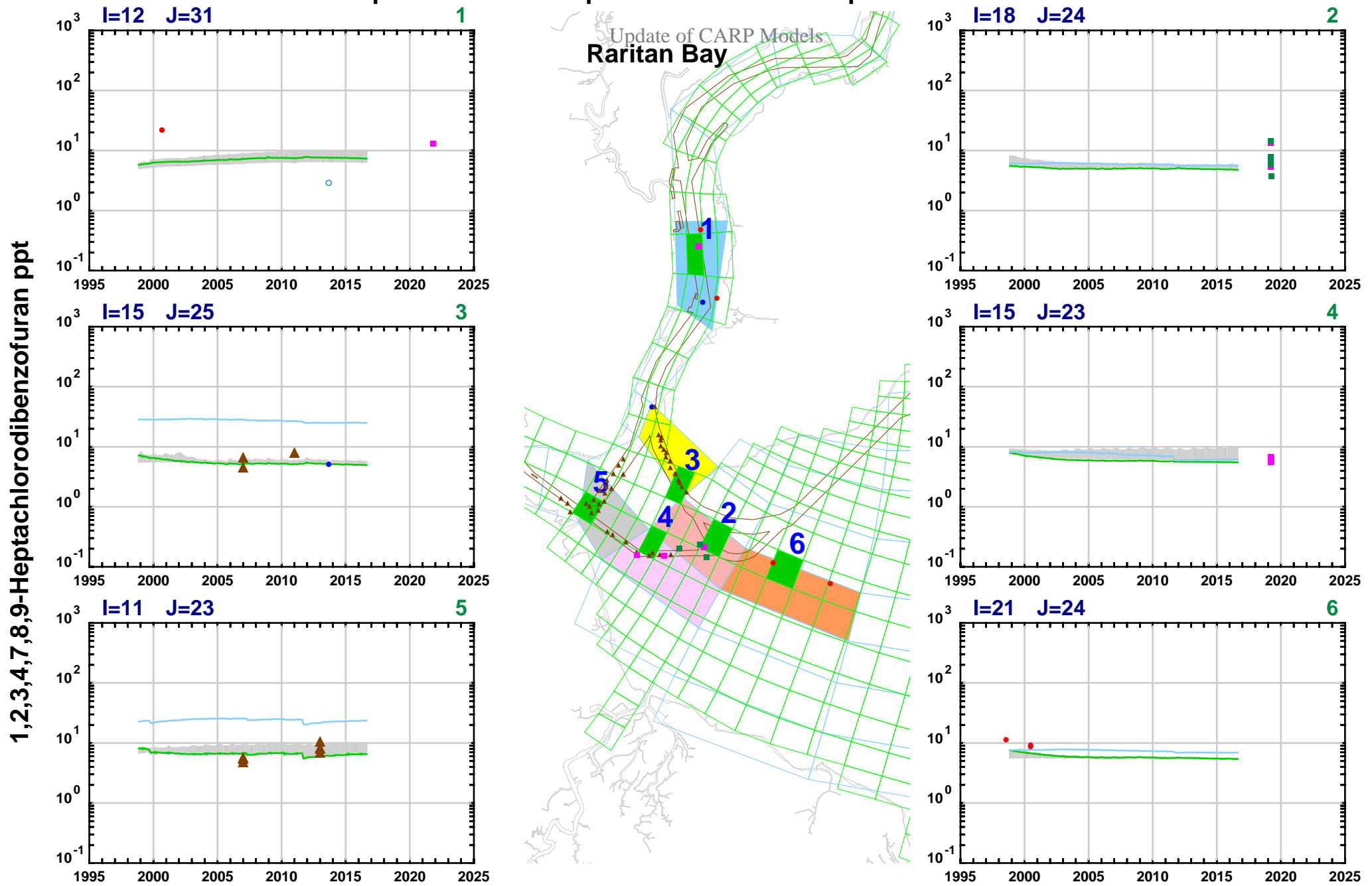


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

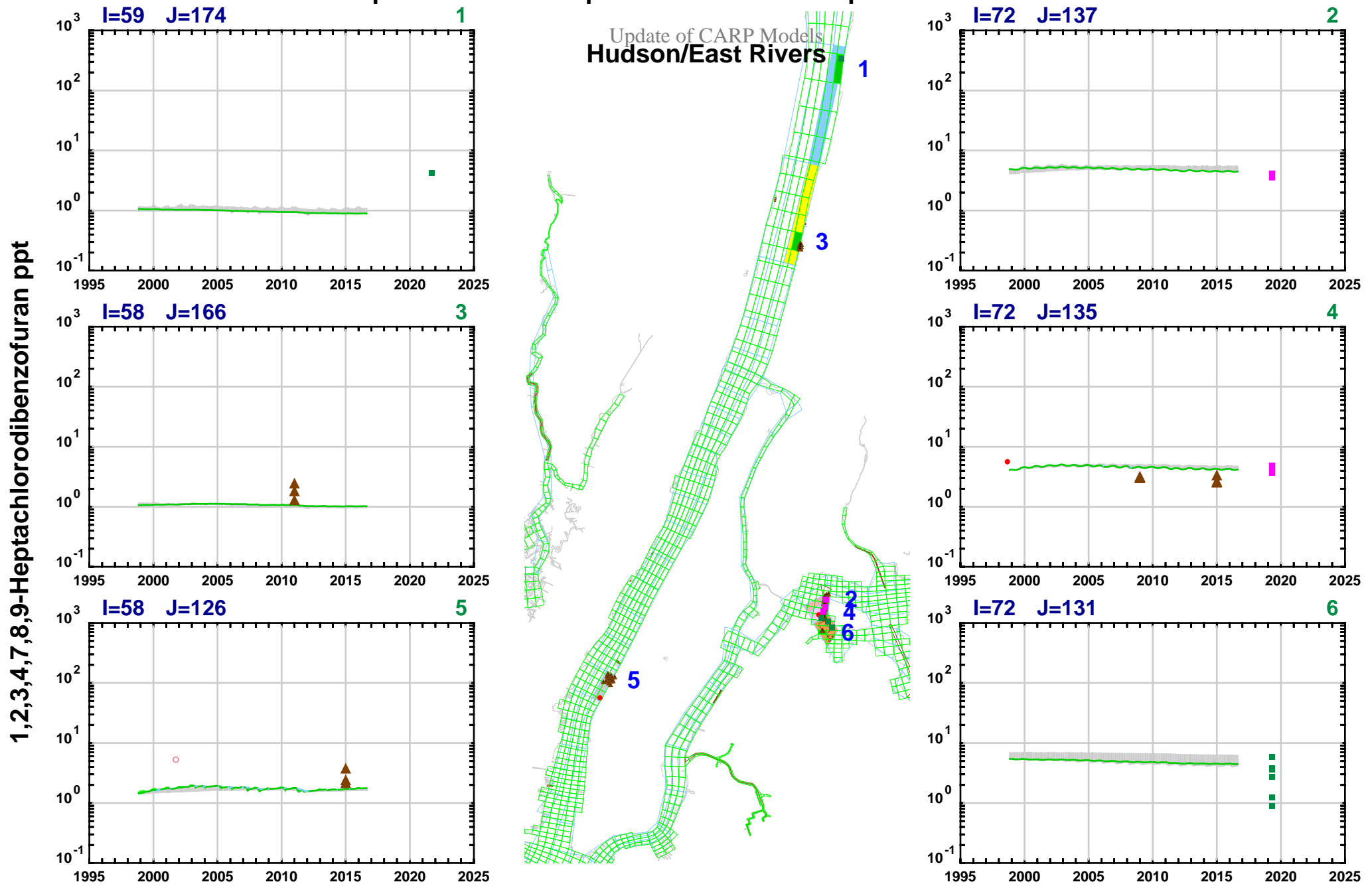


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



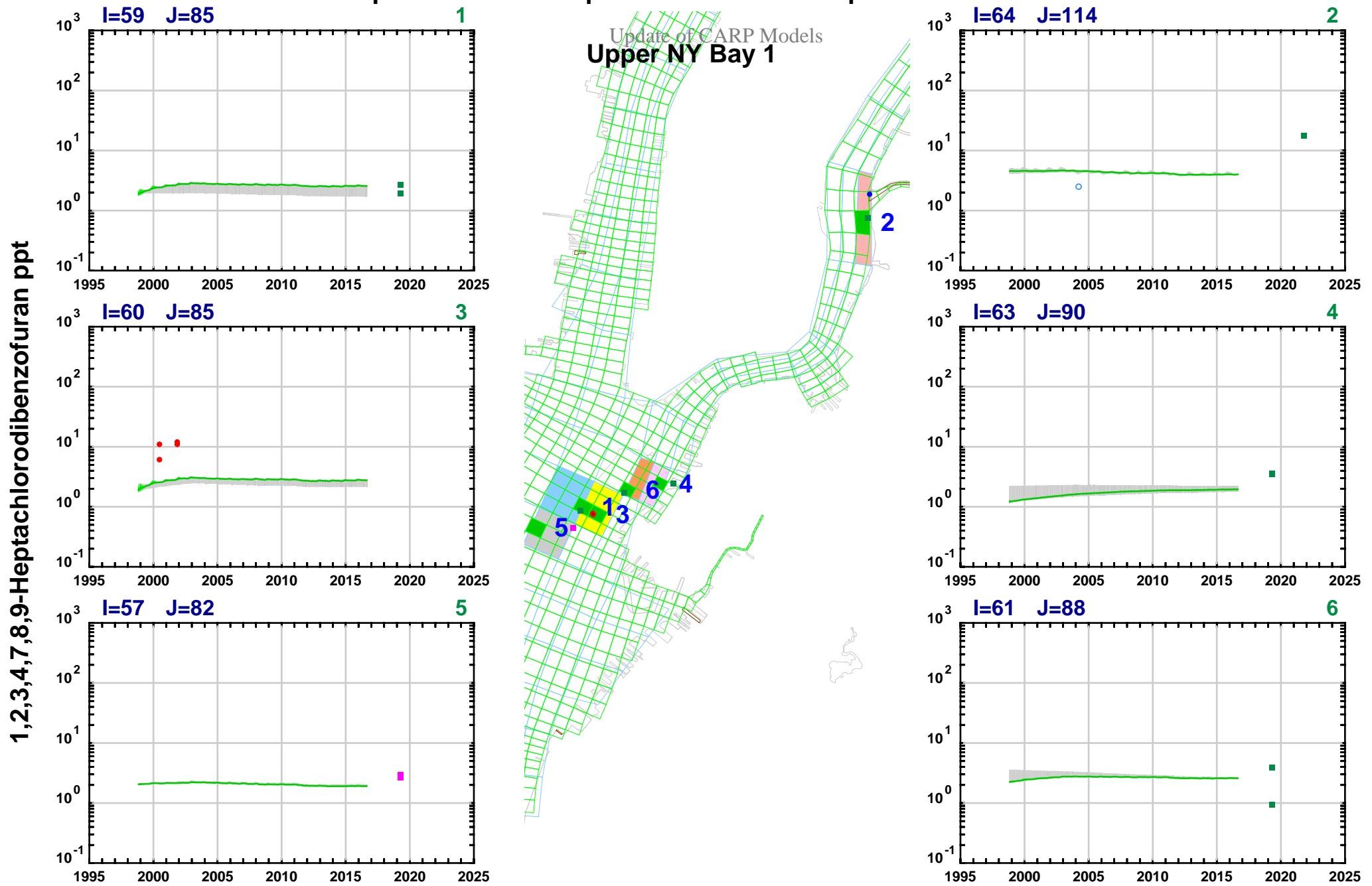
Update of CARP Models  
Hudson/East Rivers

**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data   ● Off-channel data   ▲ Dredge data**  
**■ CARP2 In-channel   ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment



**RUN18\_S4\_R2**

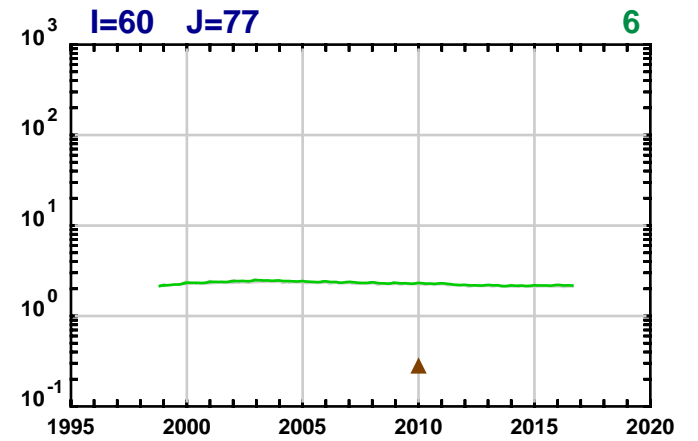
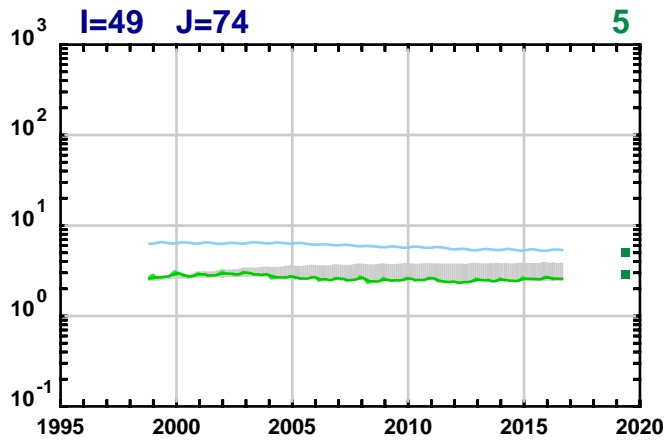
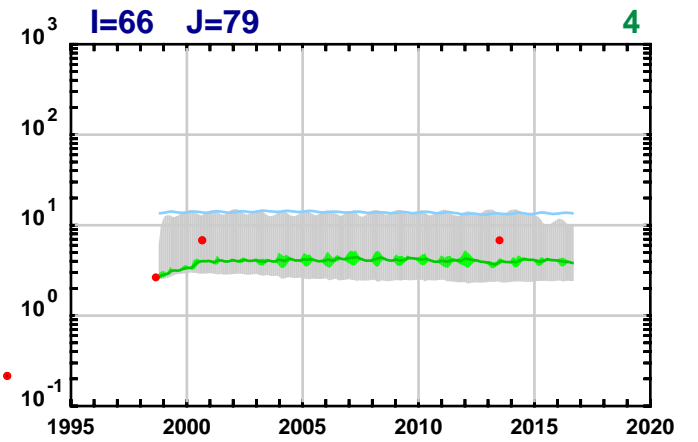
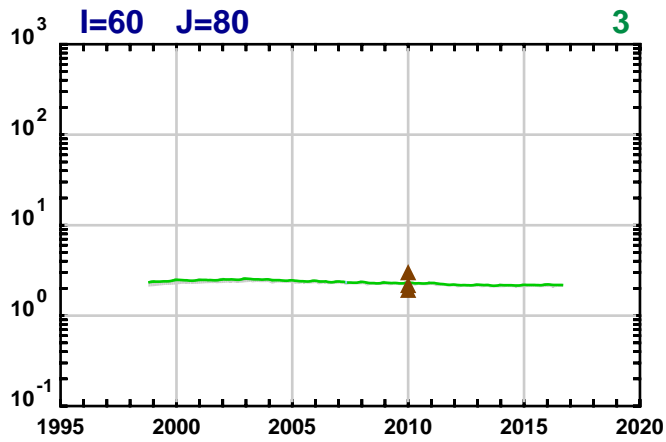
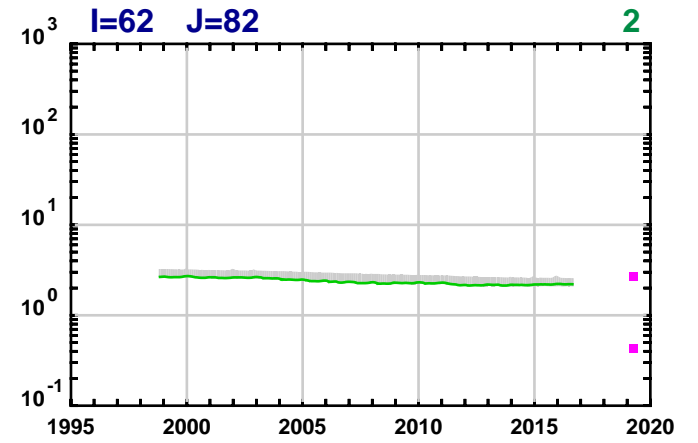
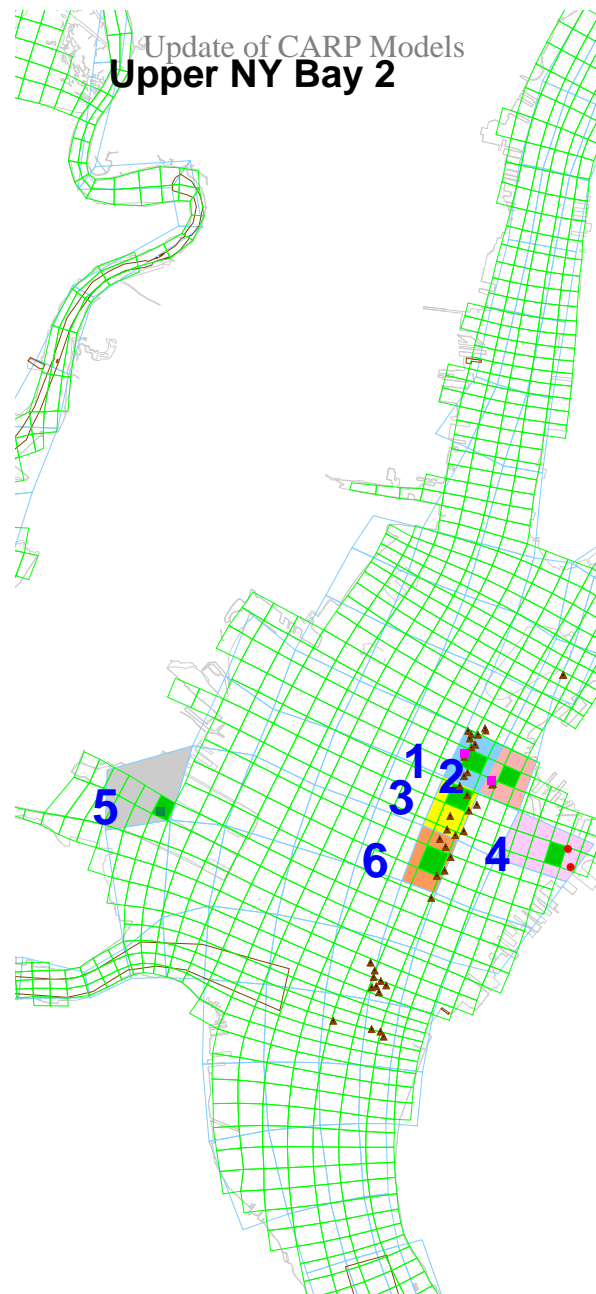
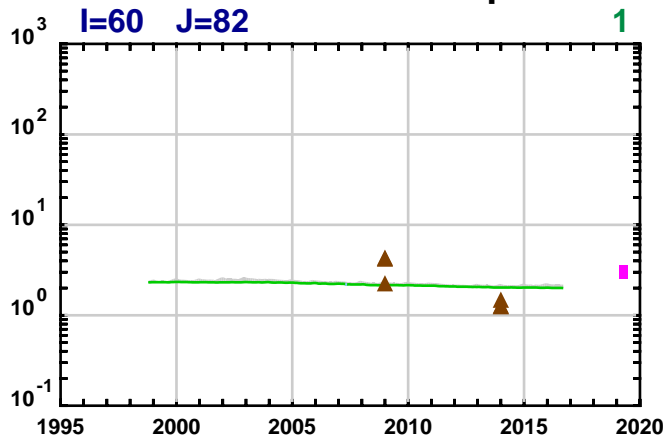
**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,7,8,9-Heptachlorodibenzofuran ppt



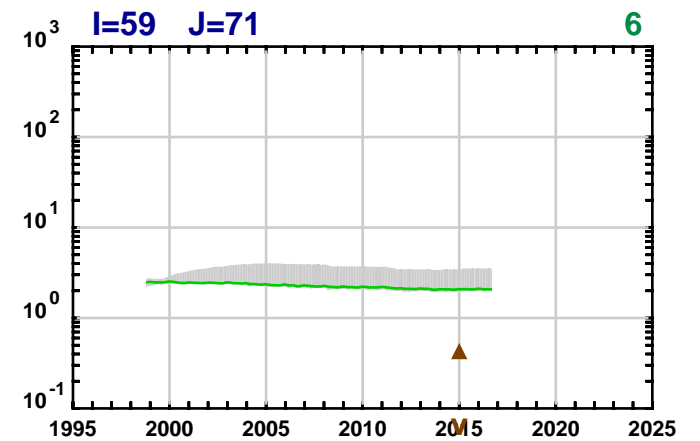
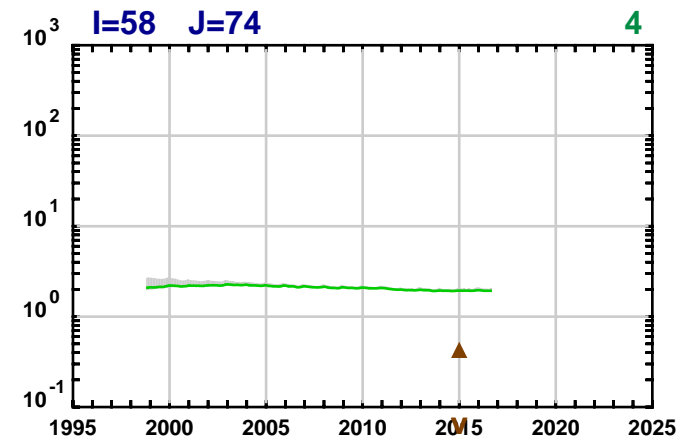
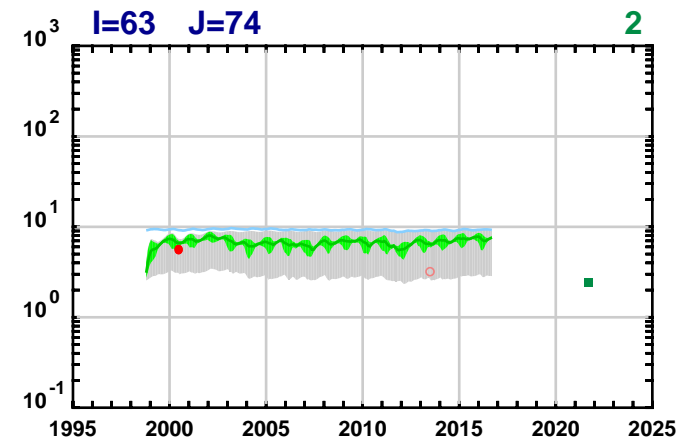
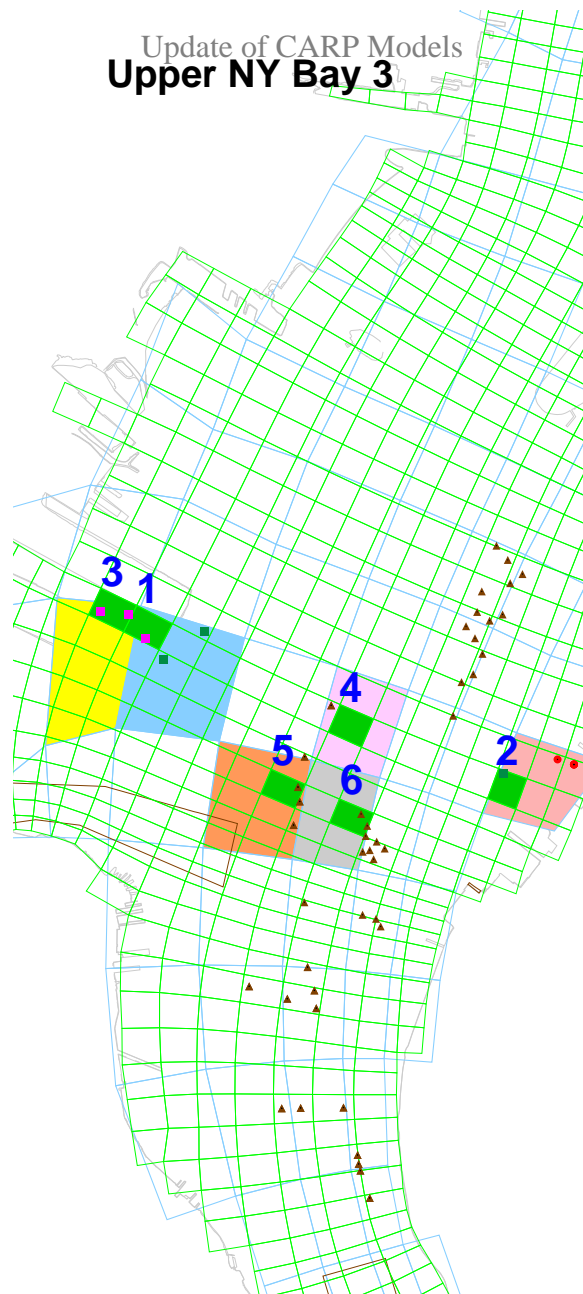
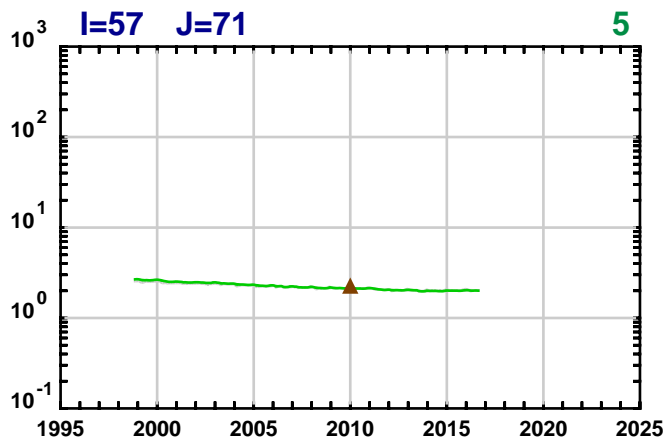
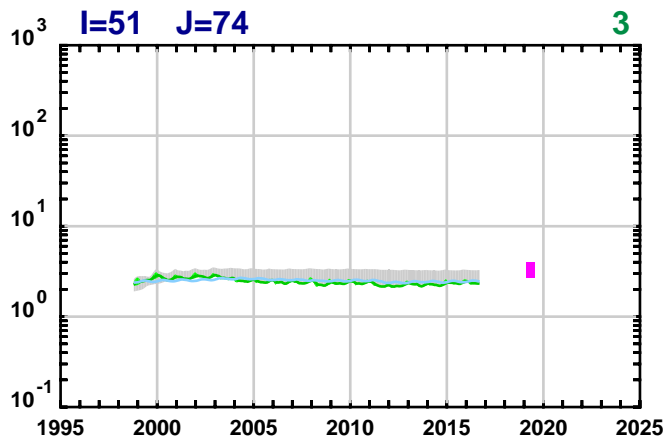
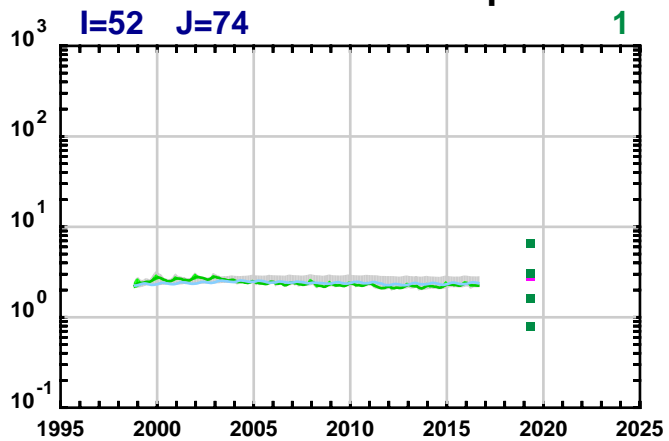
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,7,8,9-Heptachlorodibenzofuran ppt

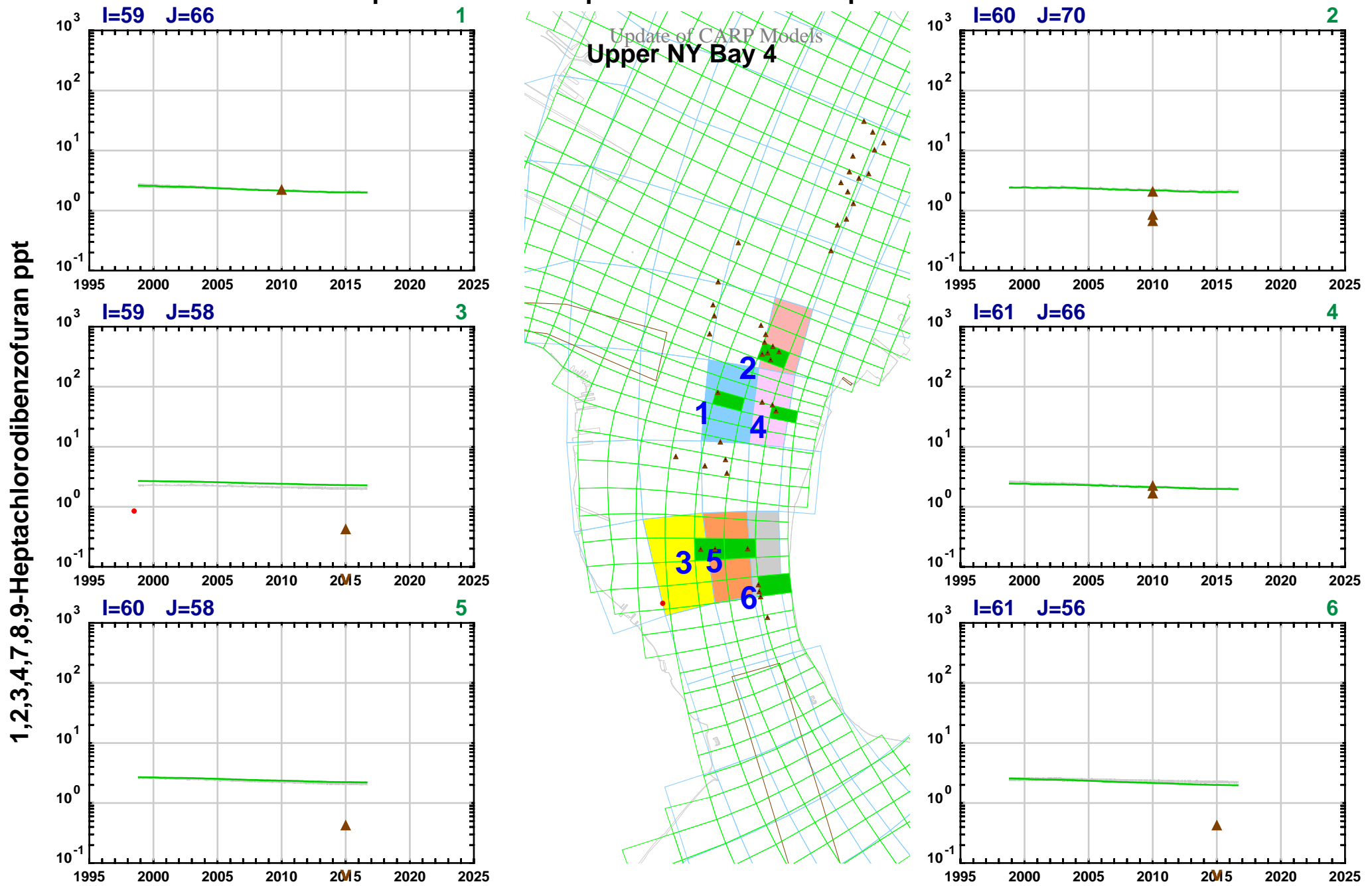


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



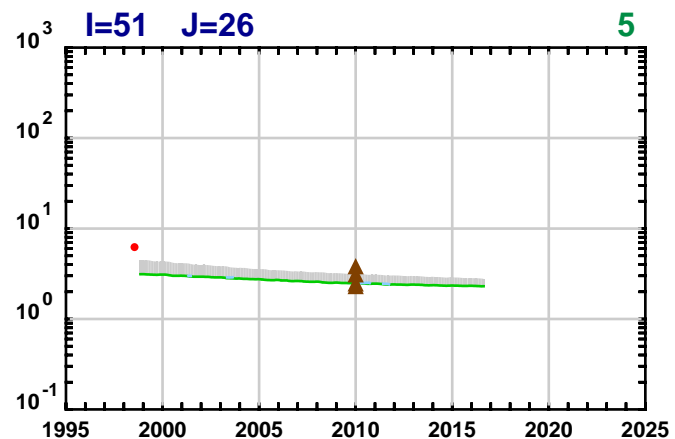
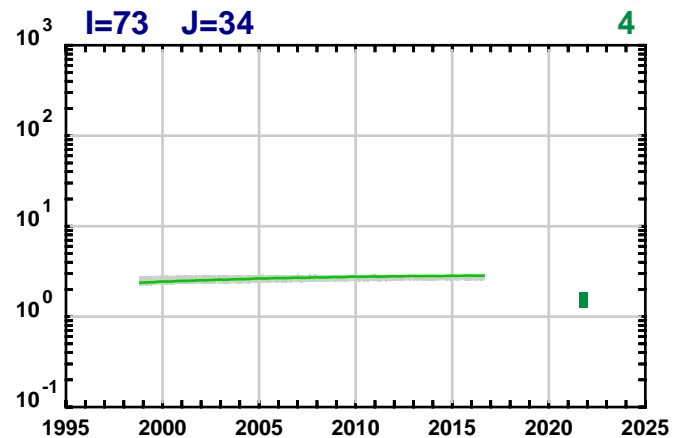
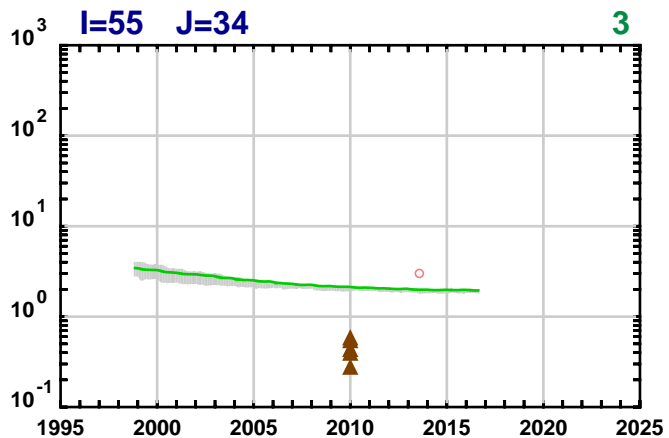
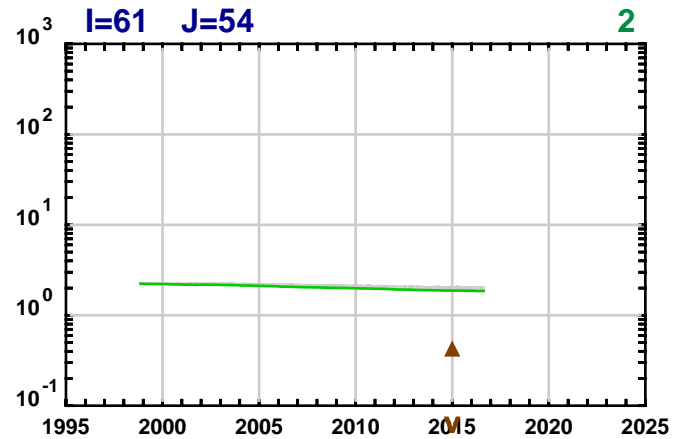
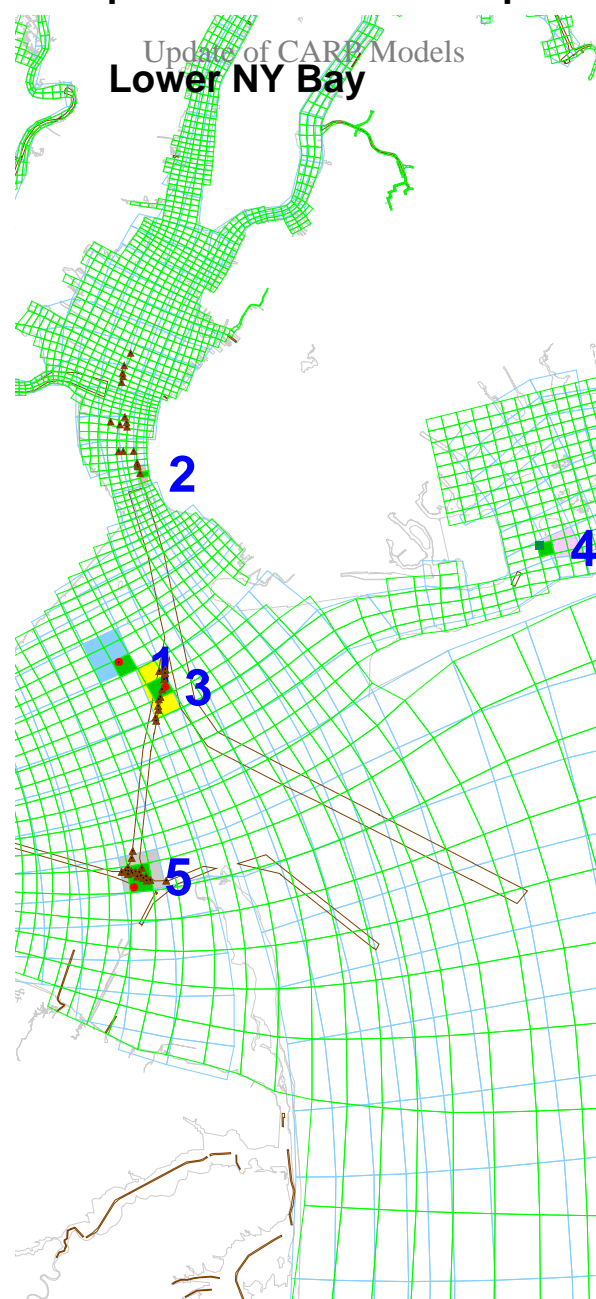
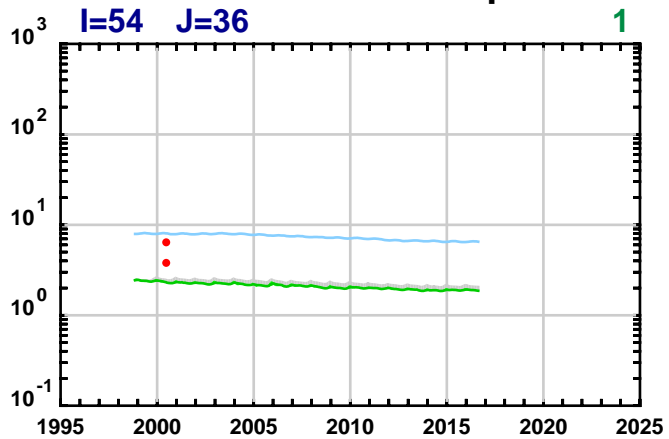
**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data ● Off-channel data ▲ Dredge data**  
**■ CARP2 In-channel ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,7,8,9-Heptachlorodibenzofuran ppt



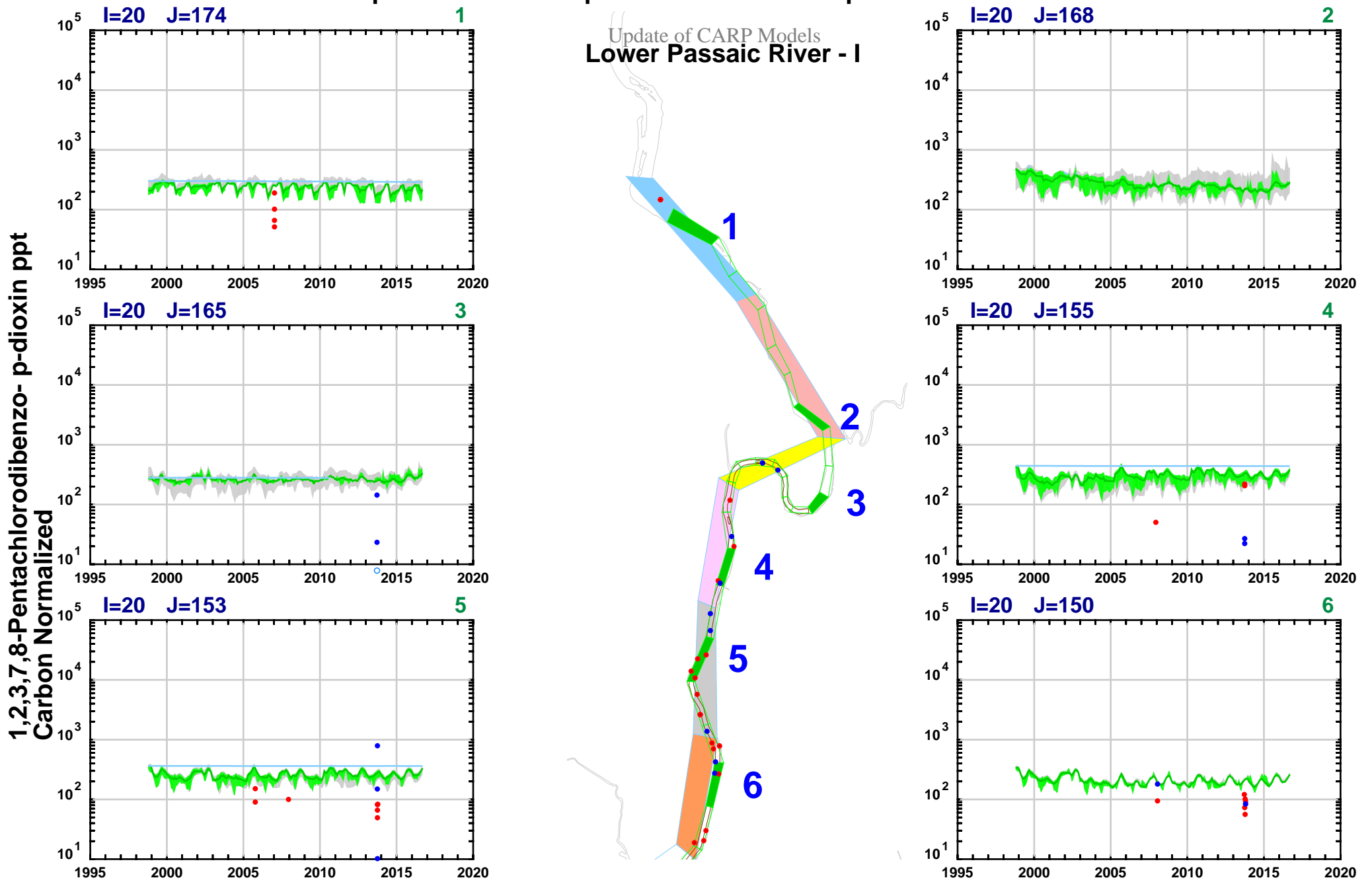
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

## Update of CARP Models Lower Passaic River - I

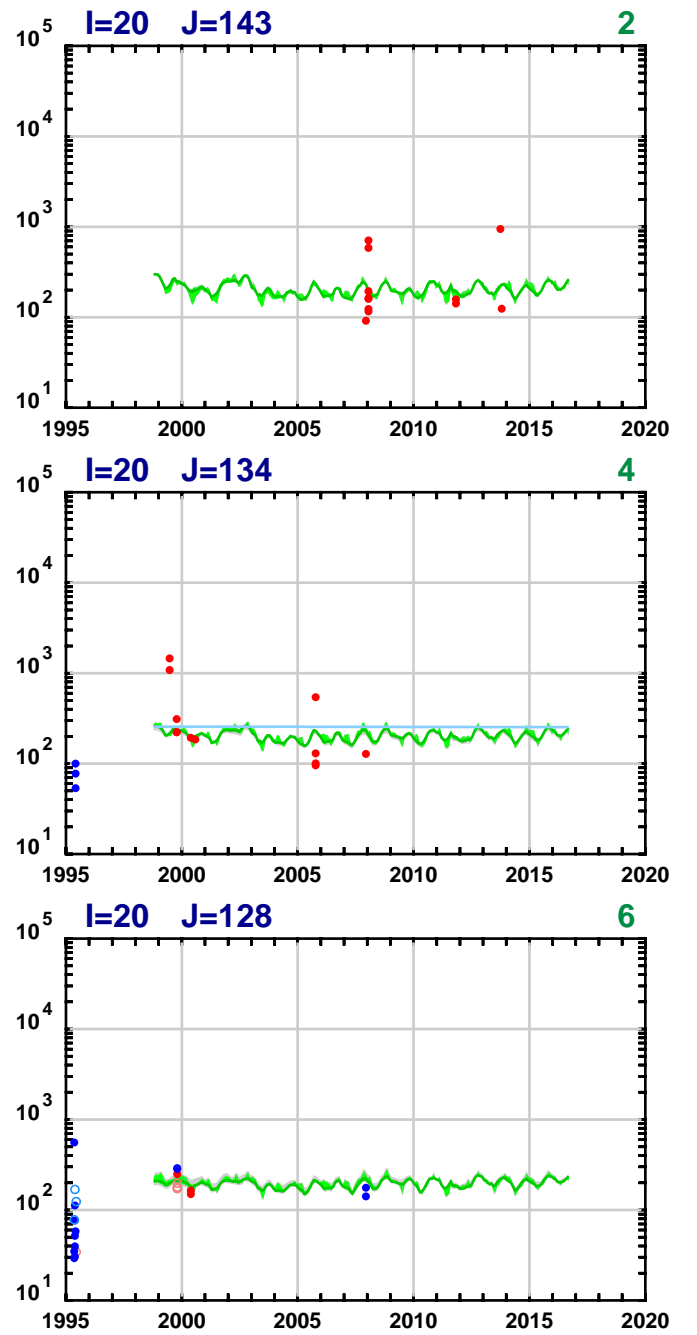
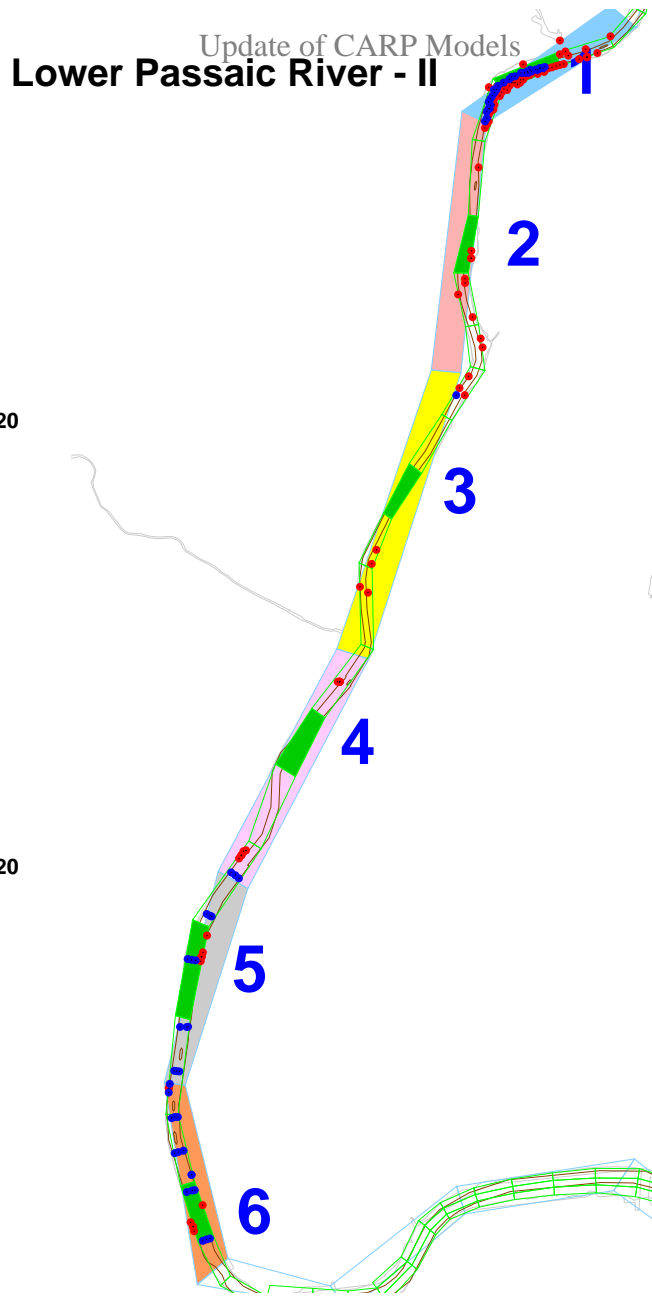
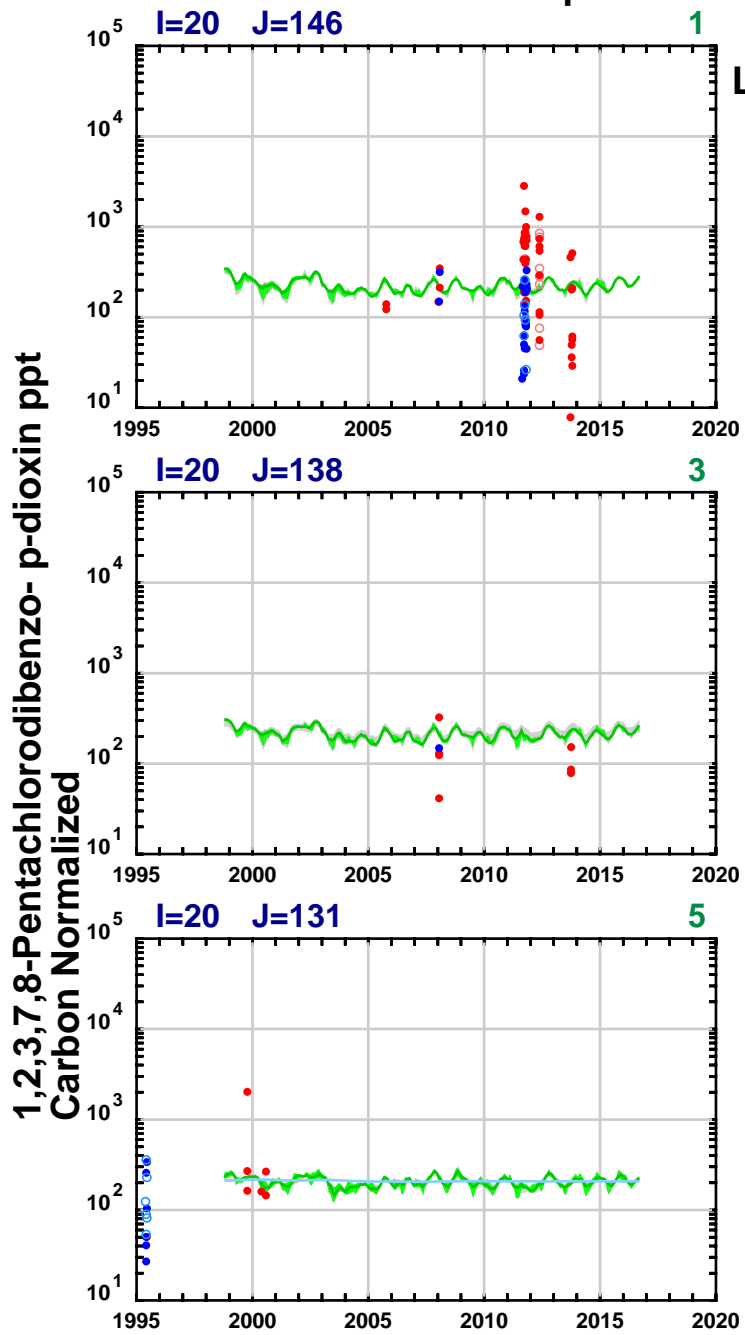


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



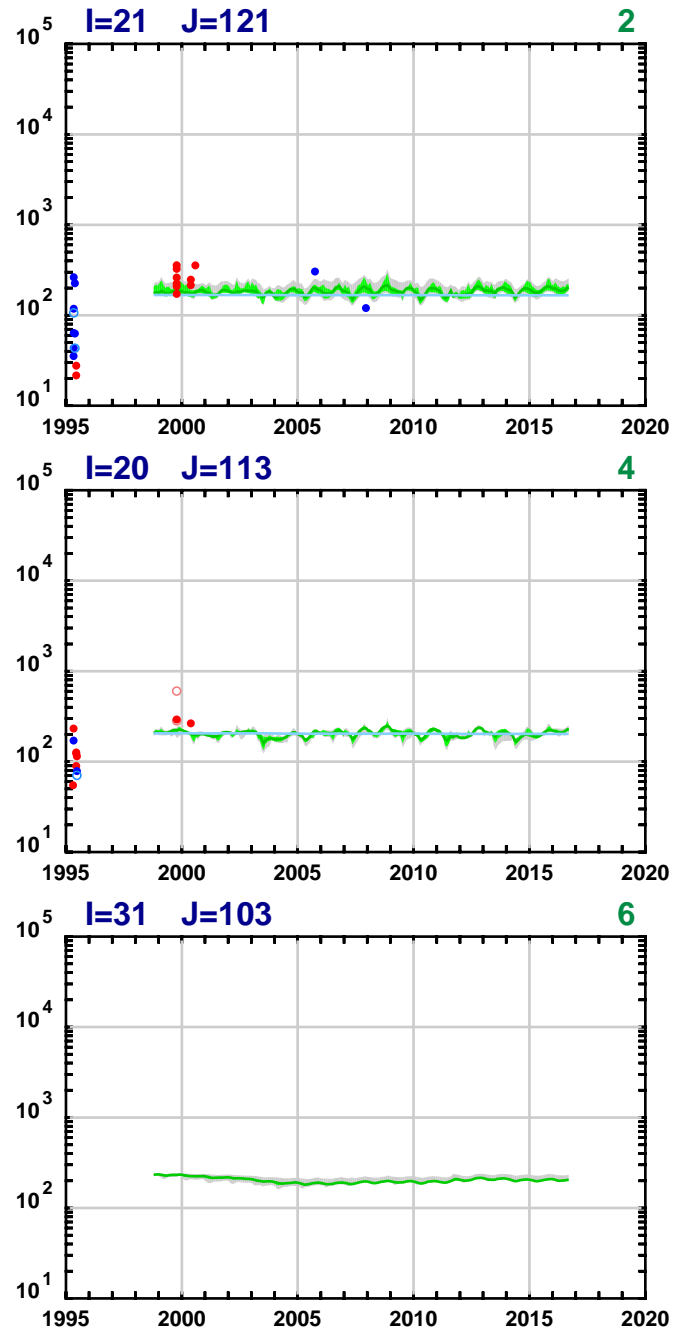
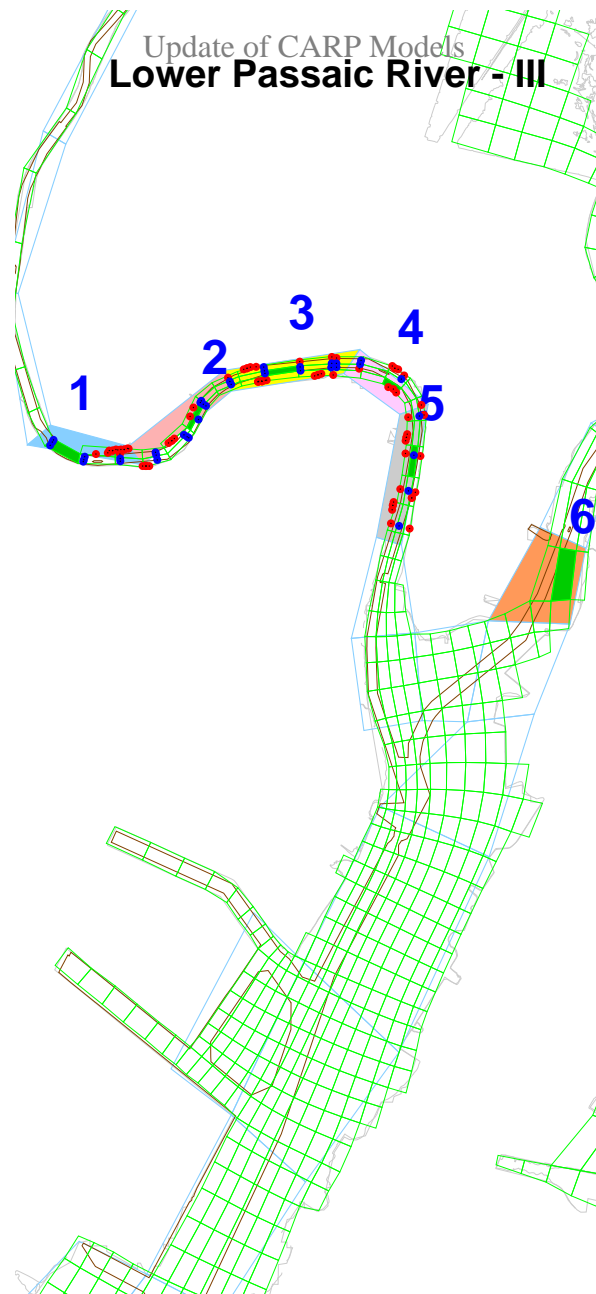
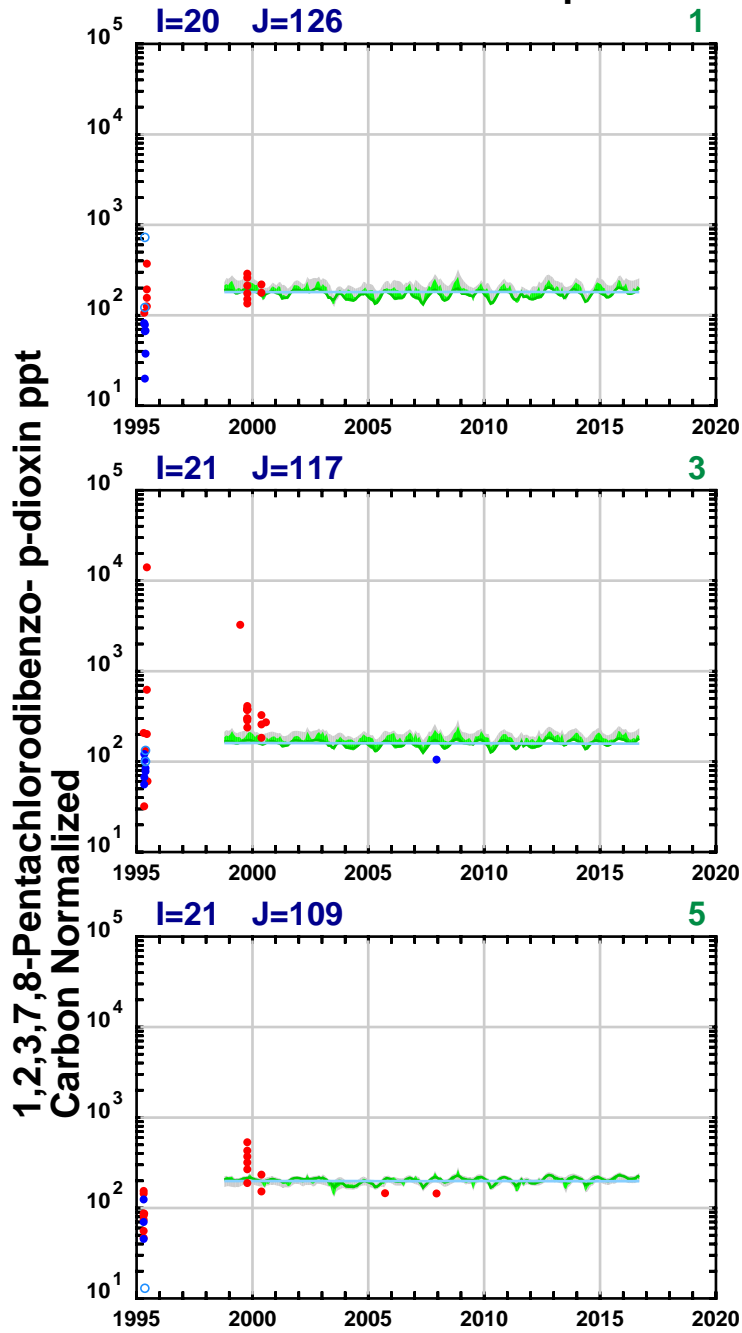
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



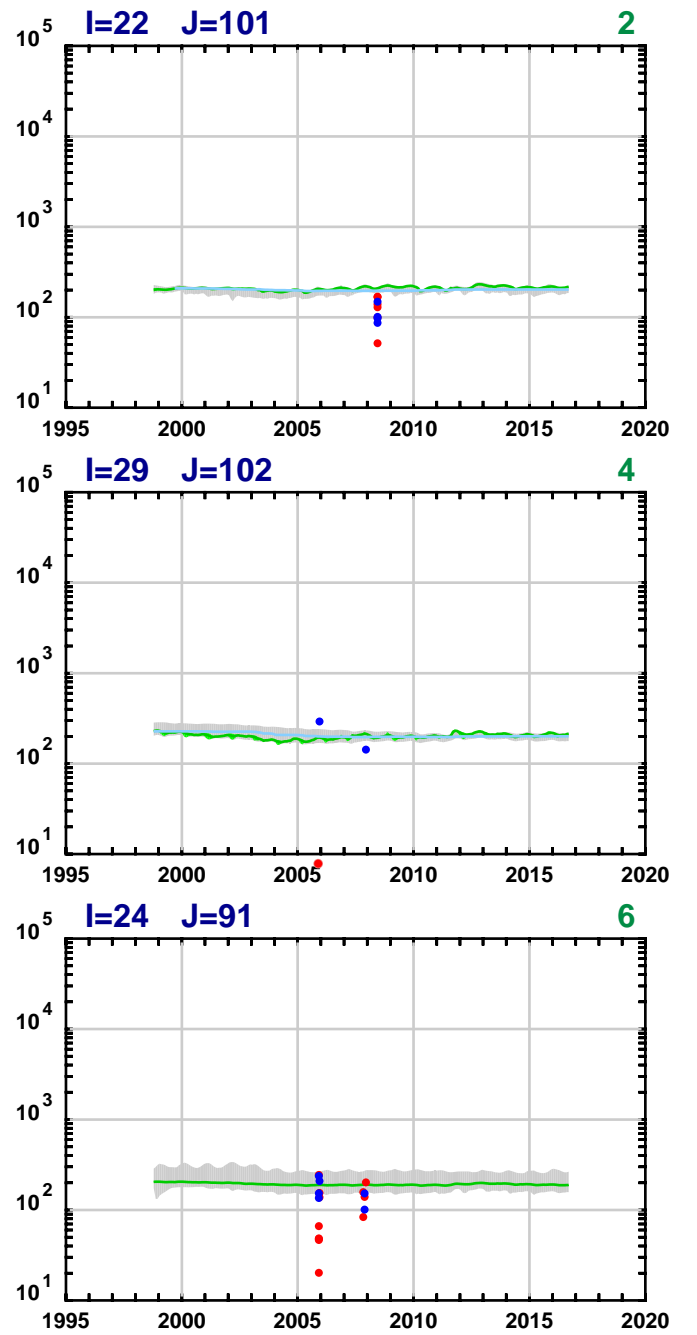
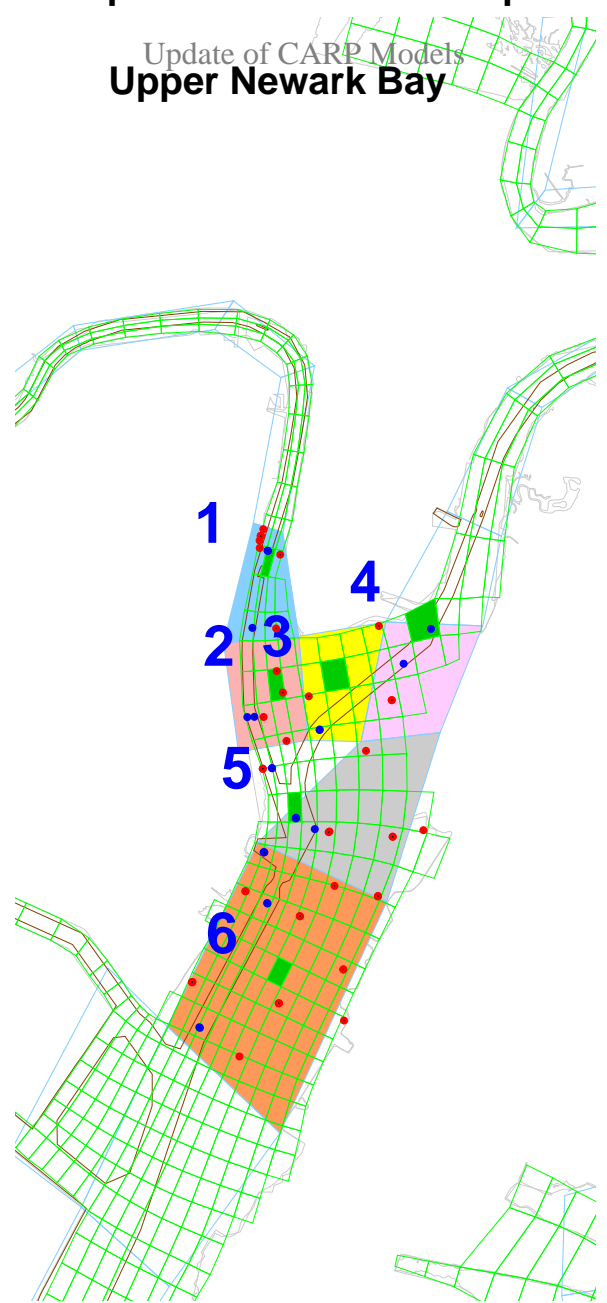
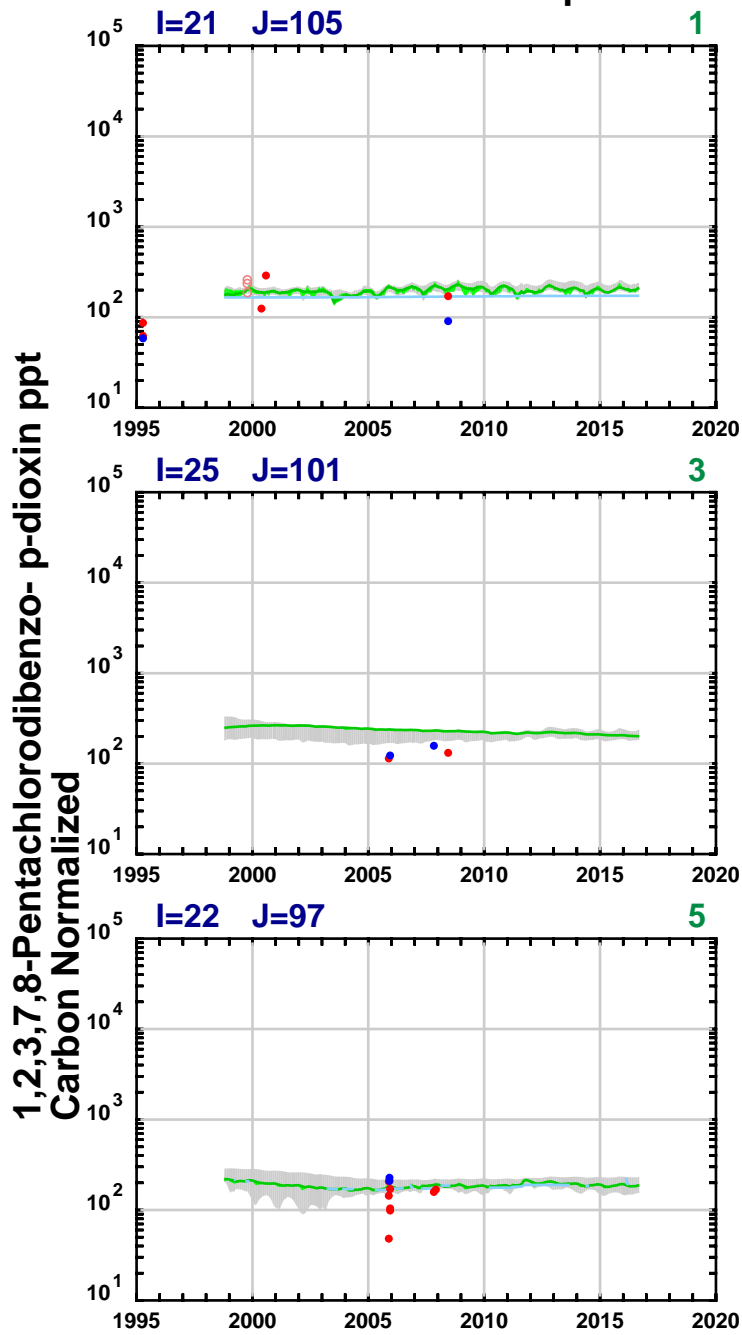
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

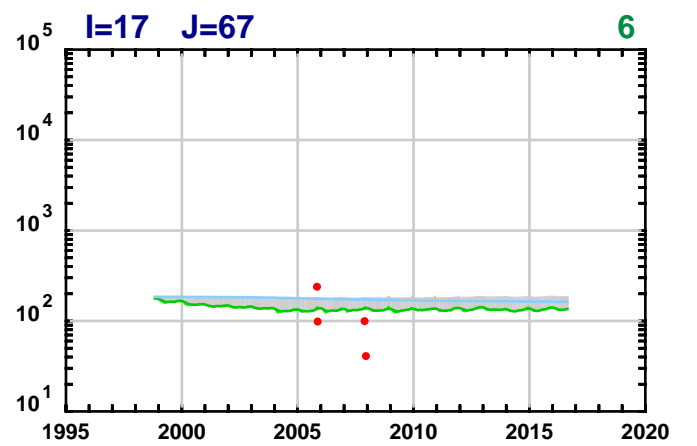
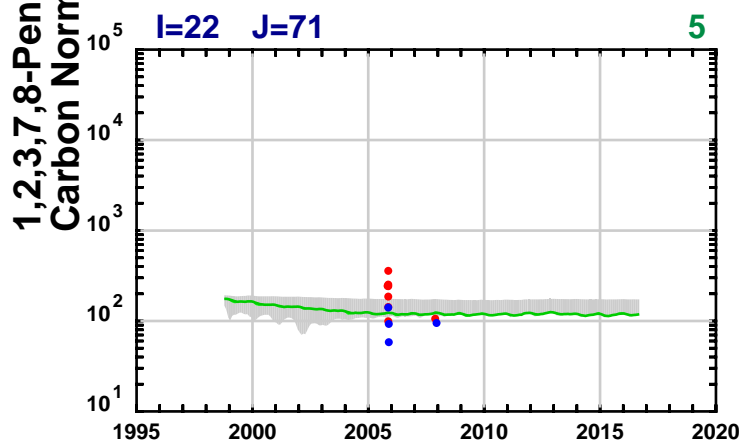
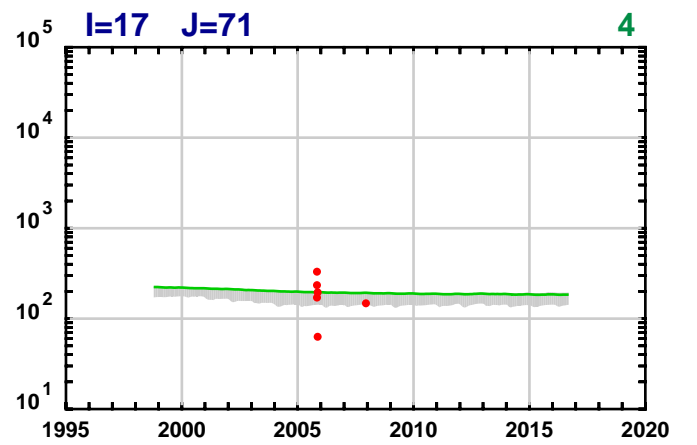
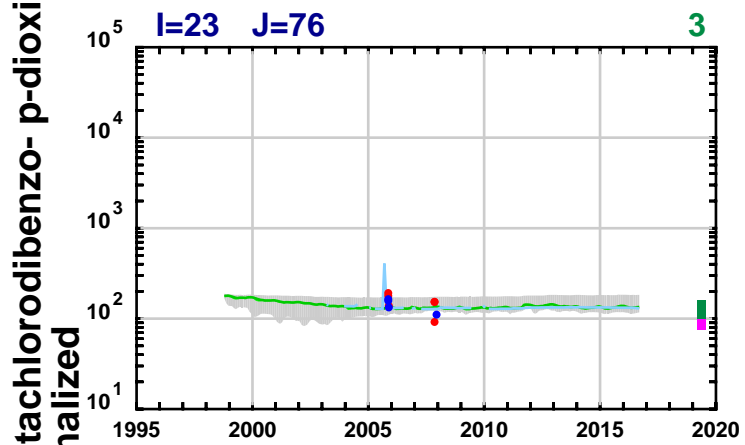
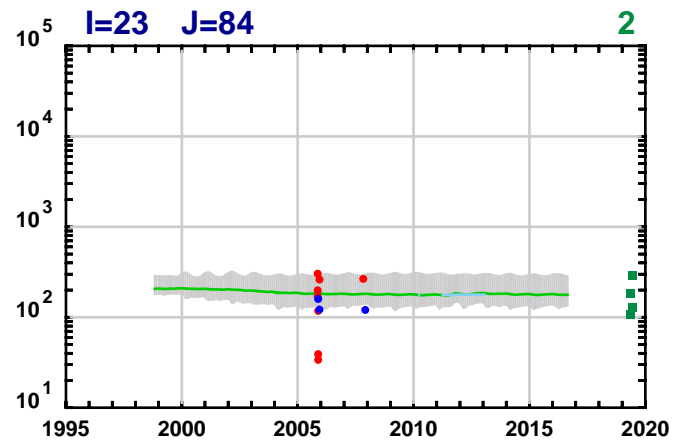
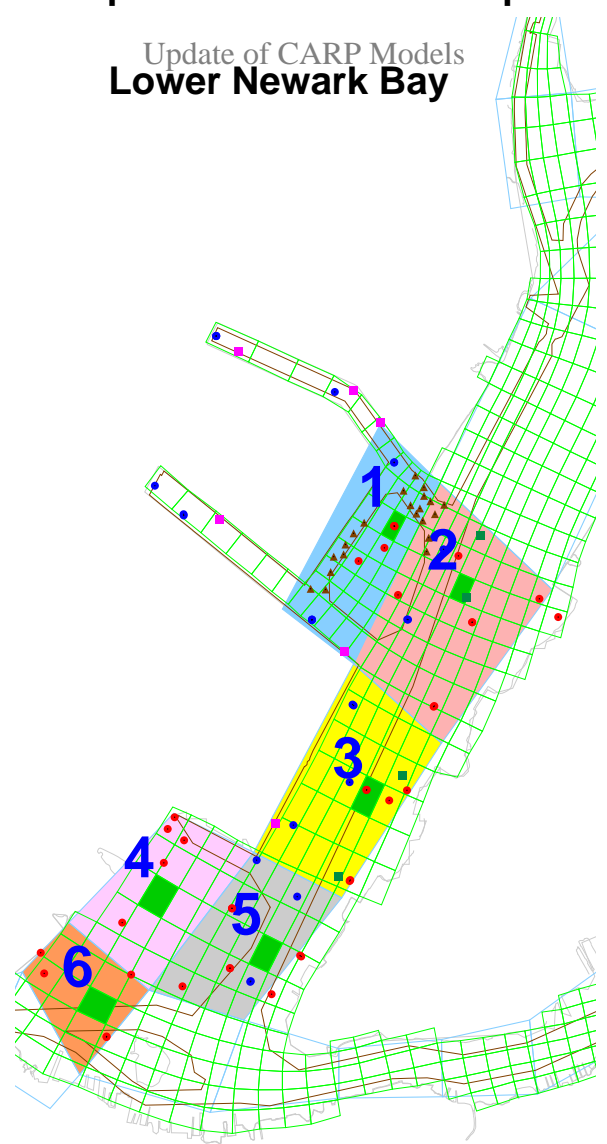
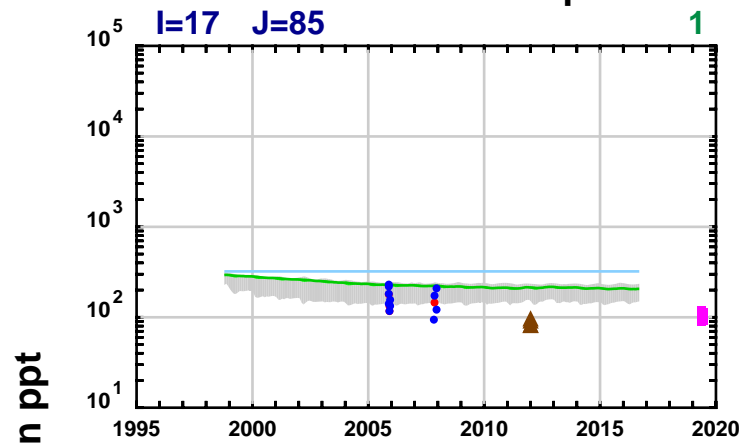


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



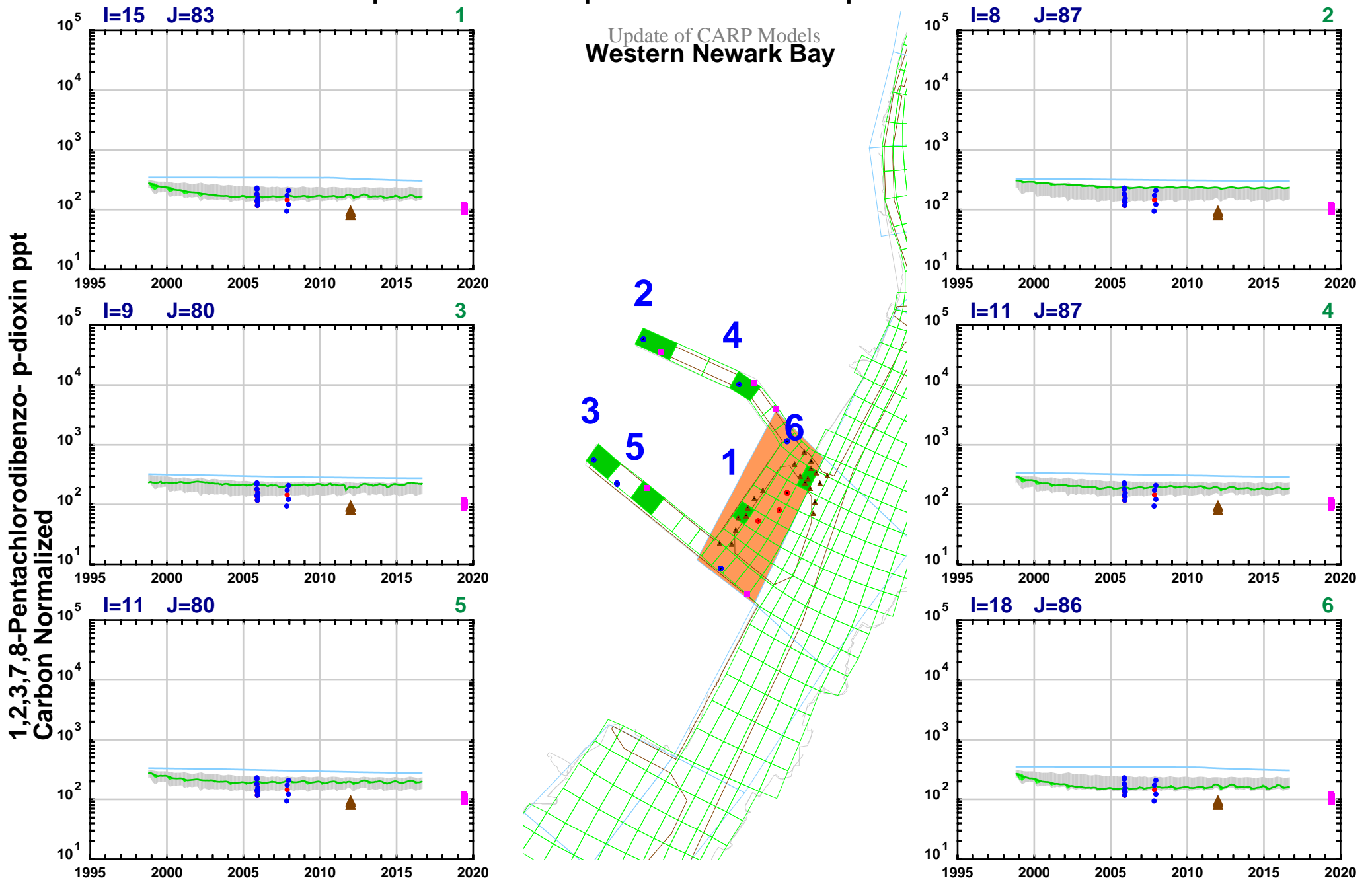
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay



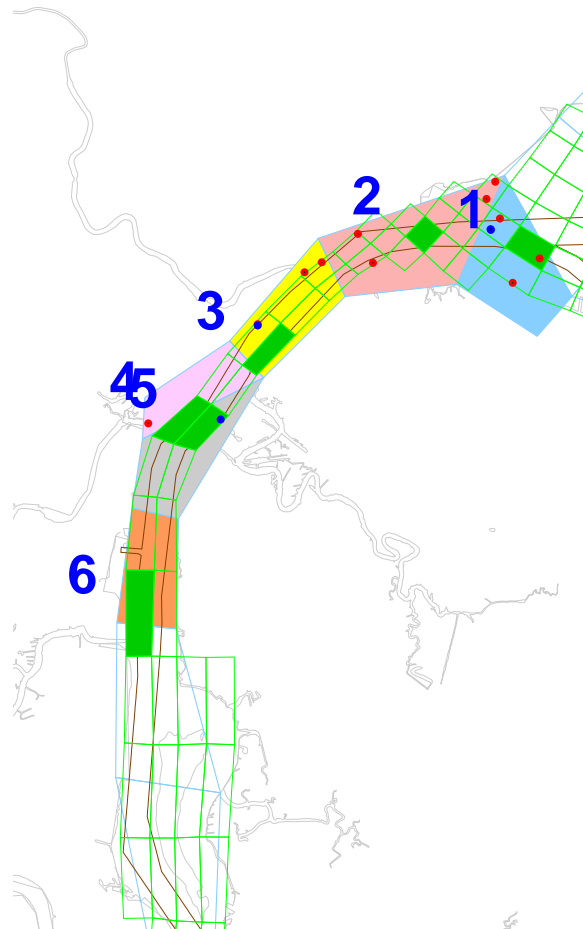
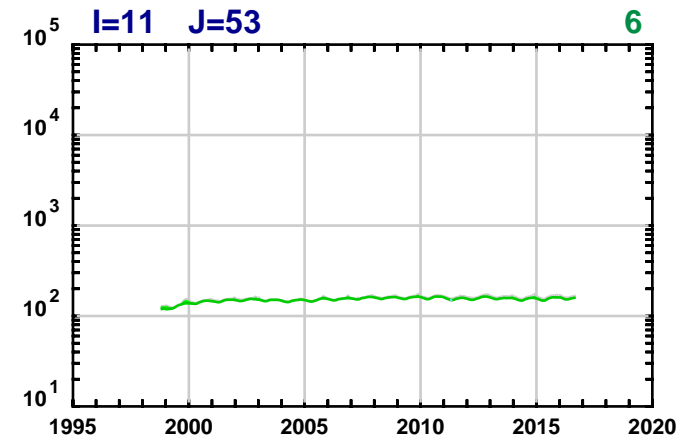
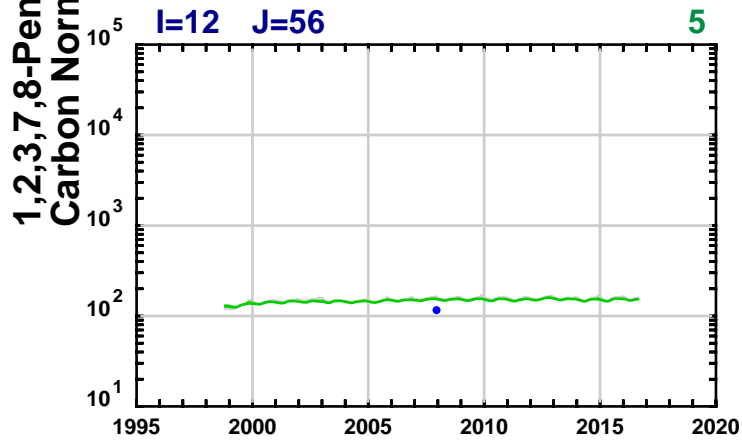
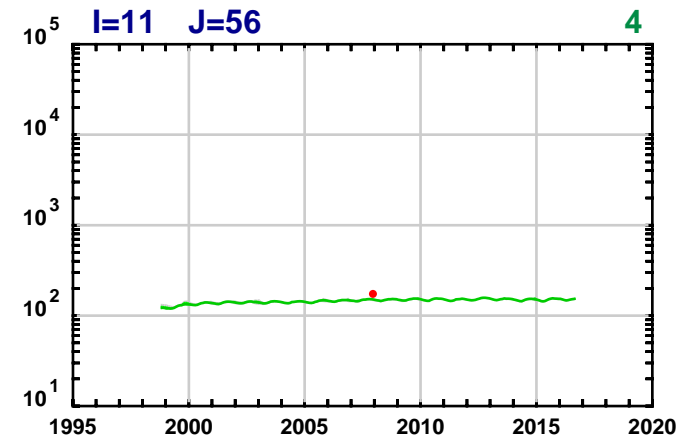
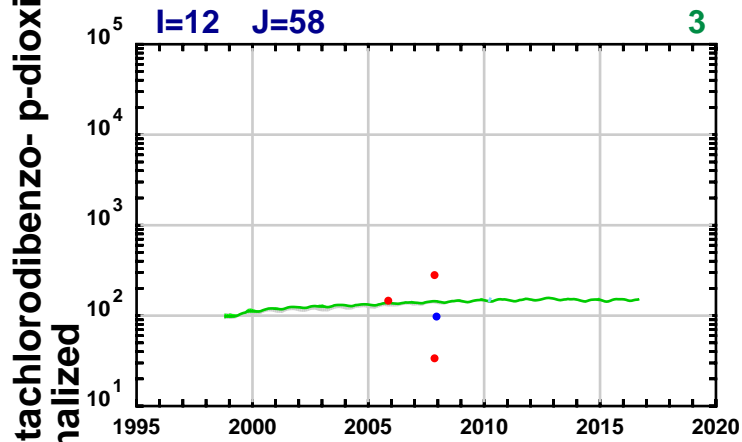
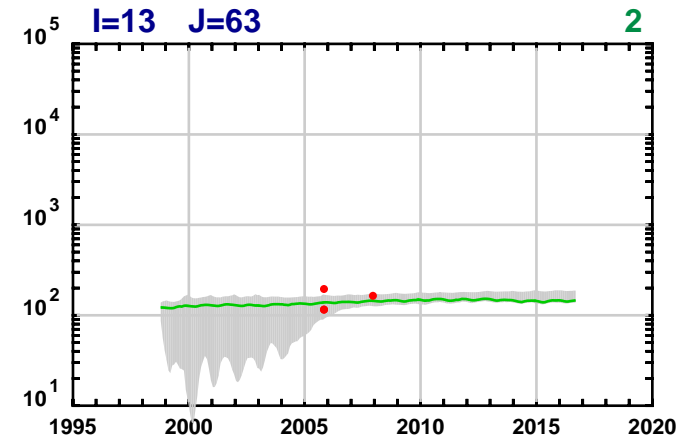
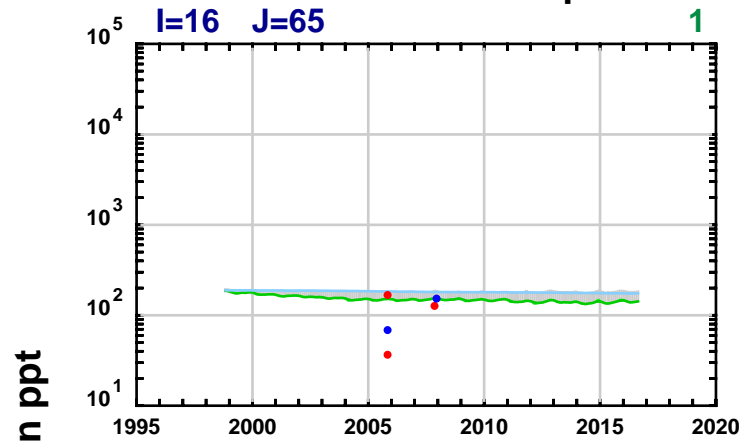
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1



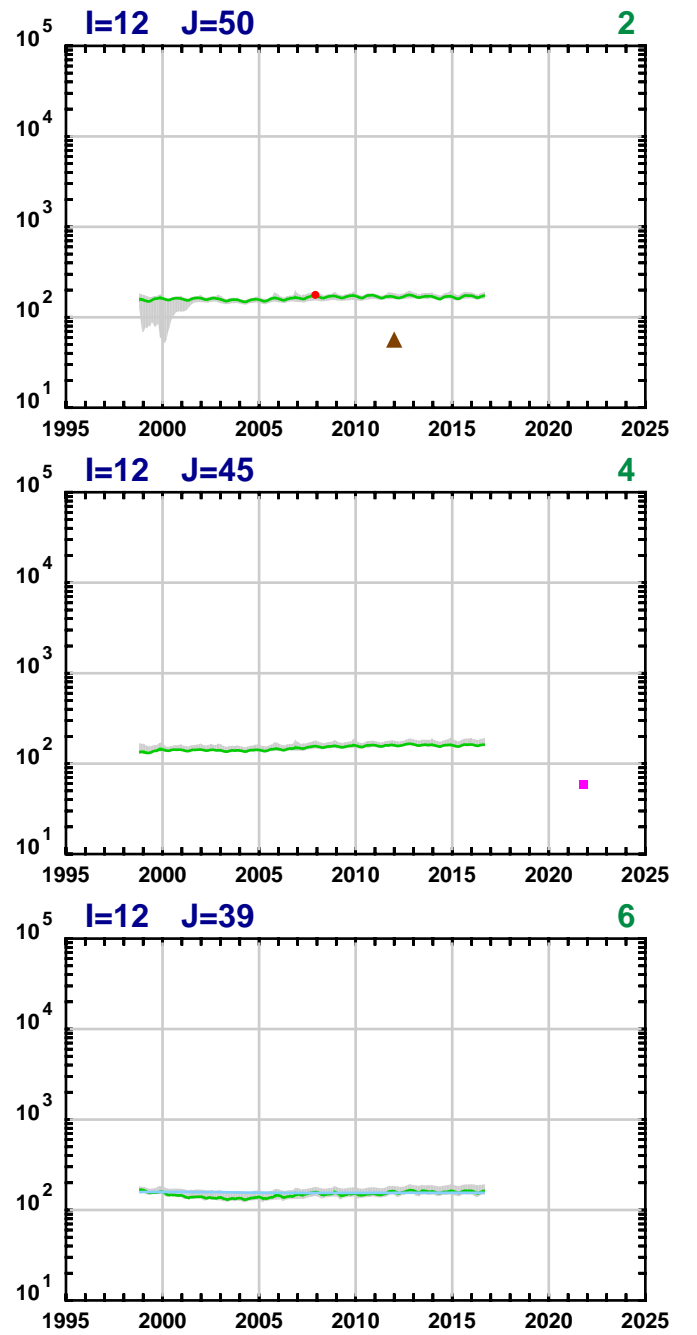
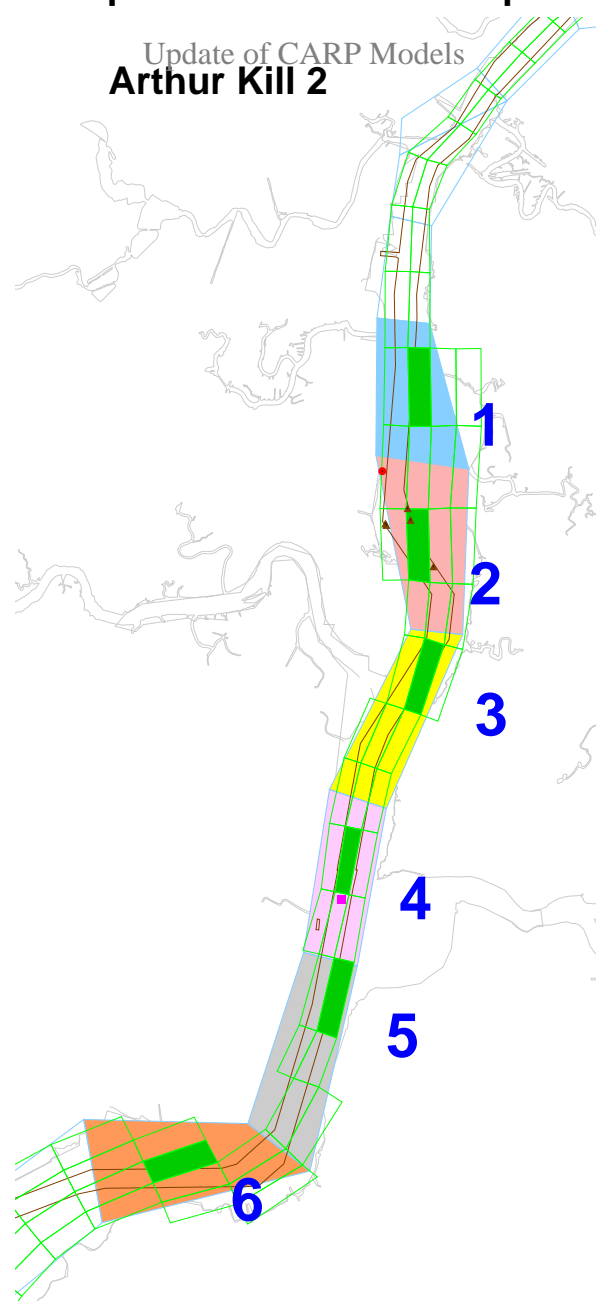
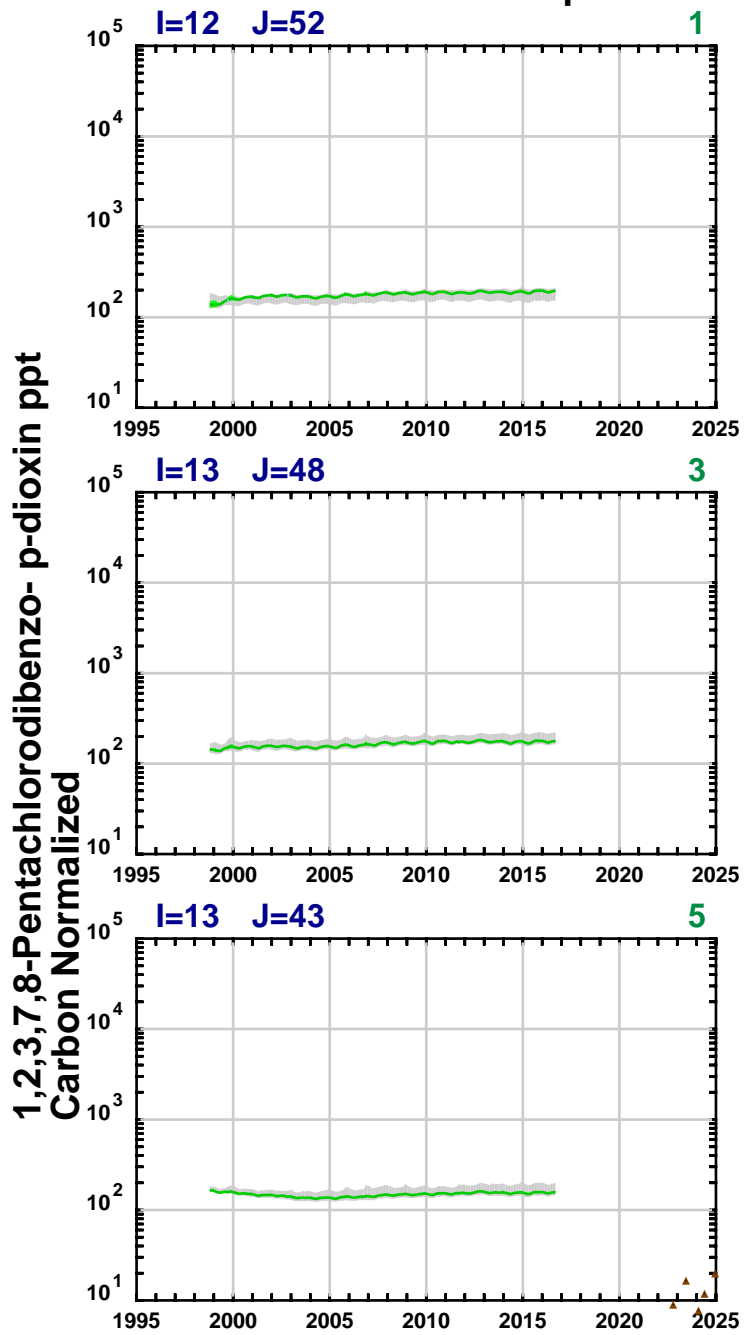
1,2,3,7,8-Pentachlorodibenzo- p-dioxin ppt  
Carbon Normalized

RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

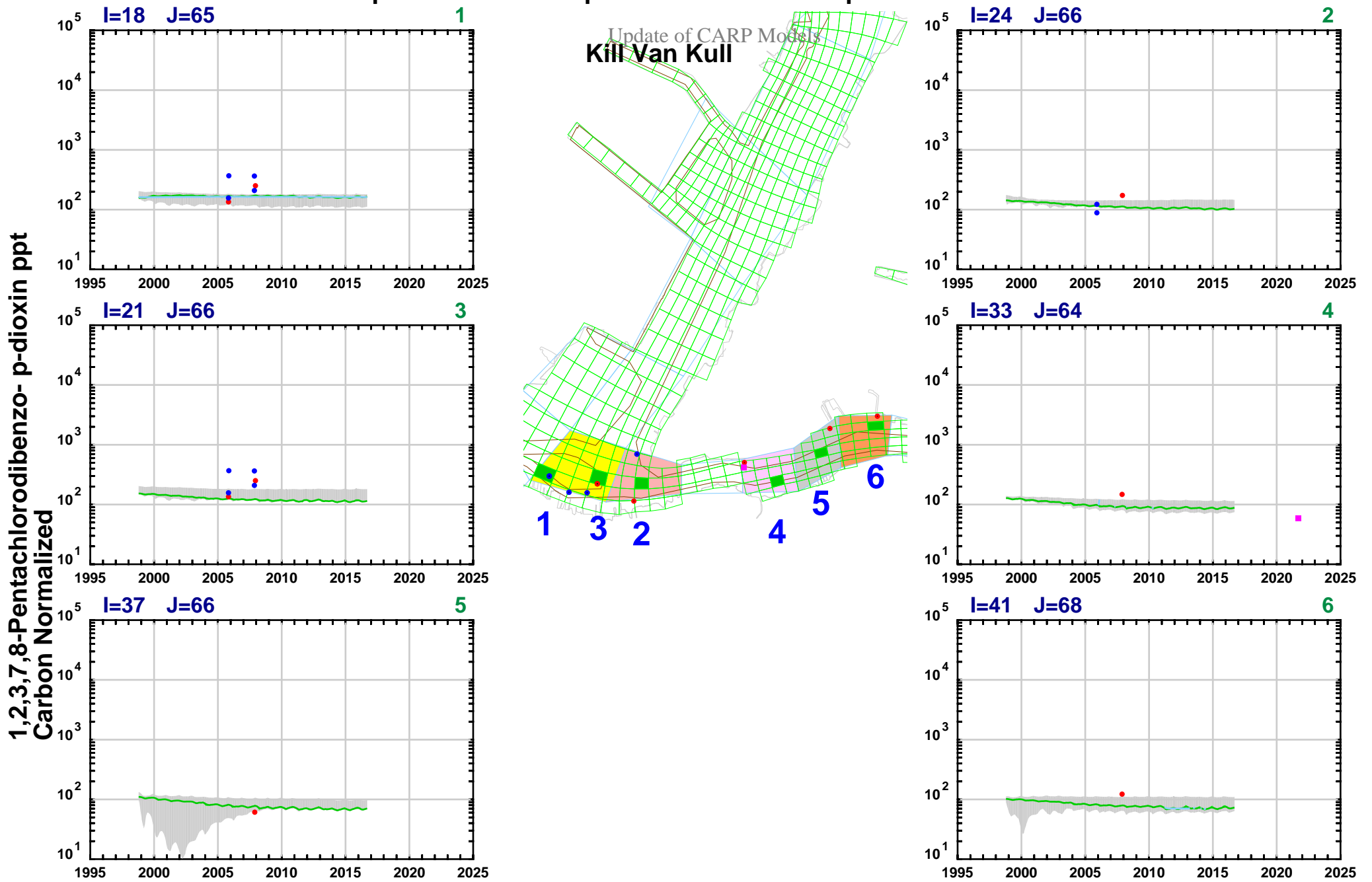


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

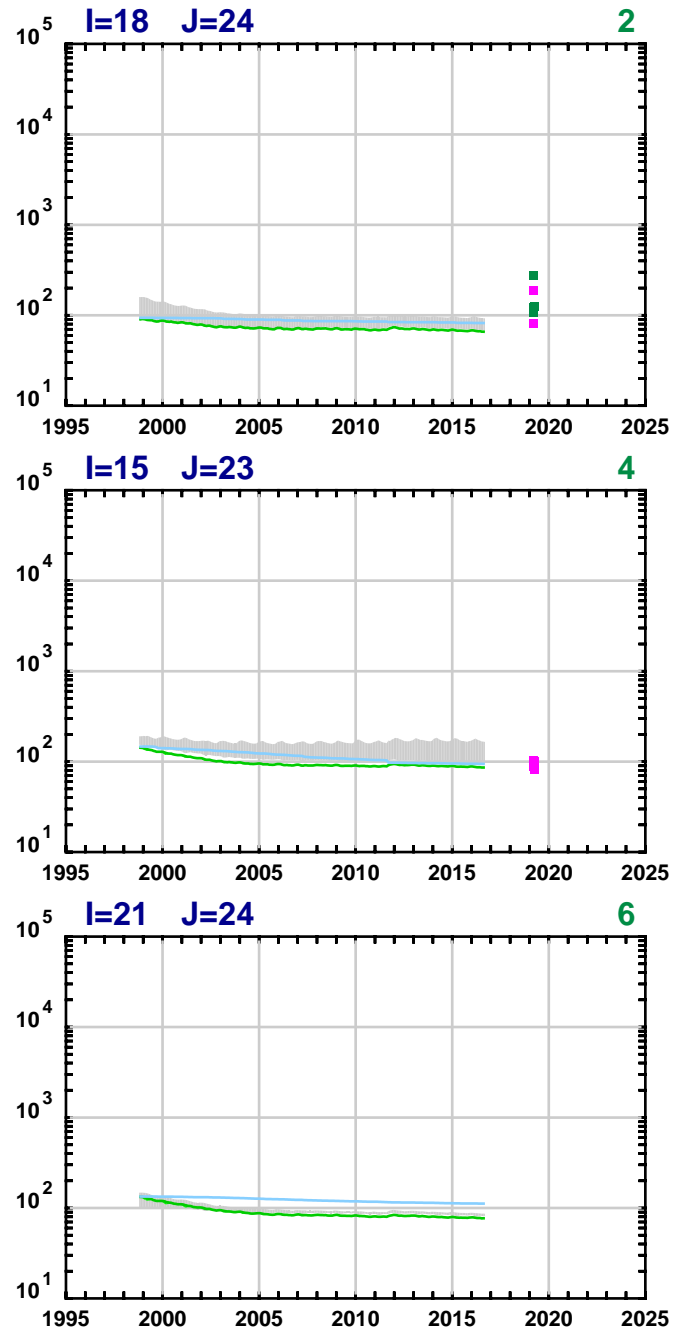
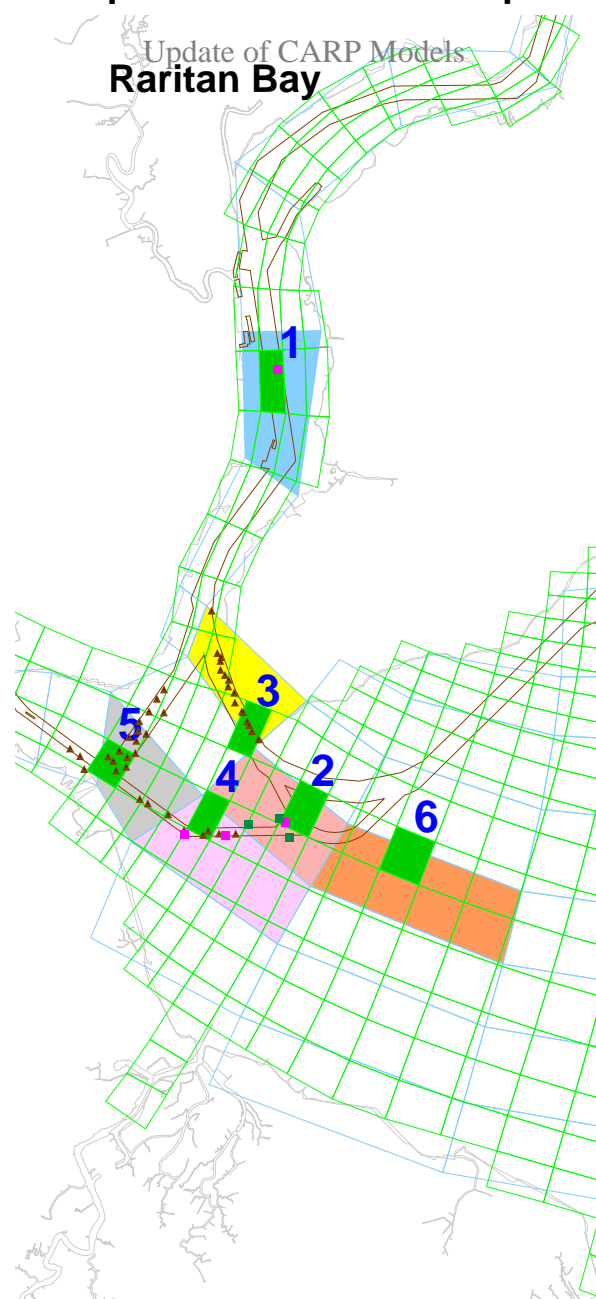
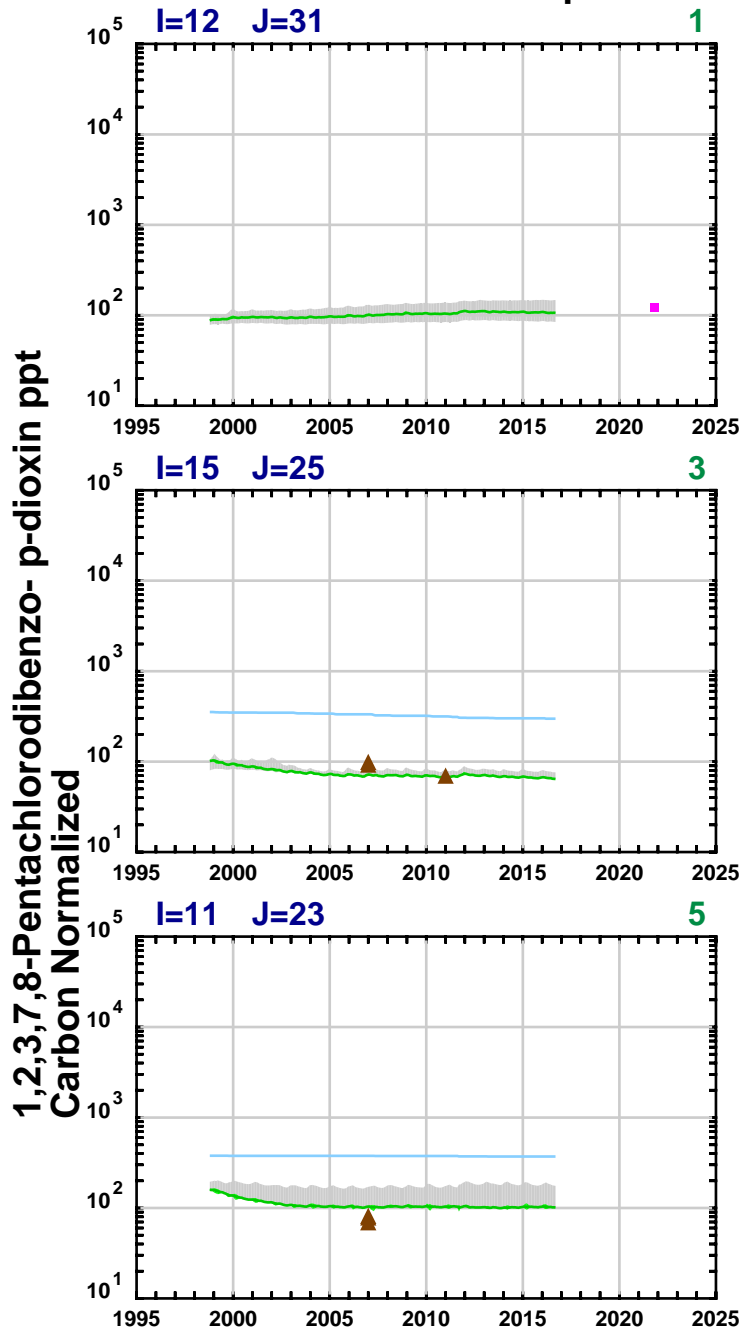


**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



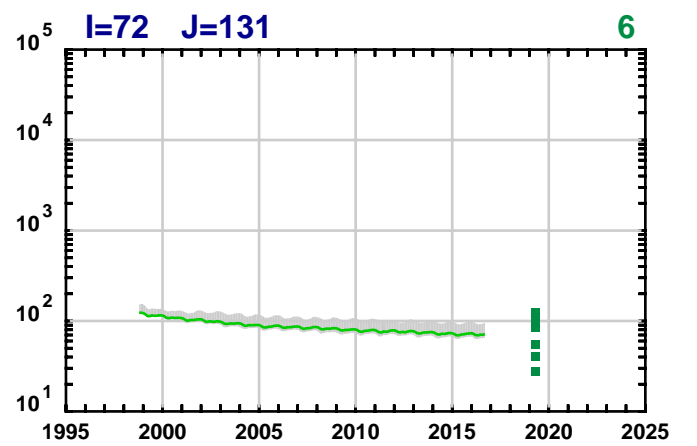
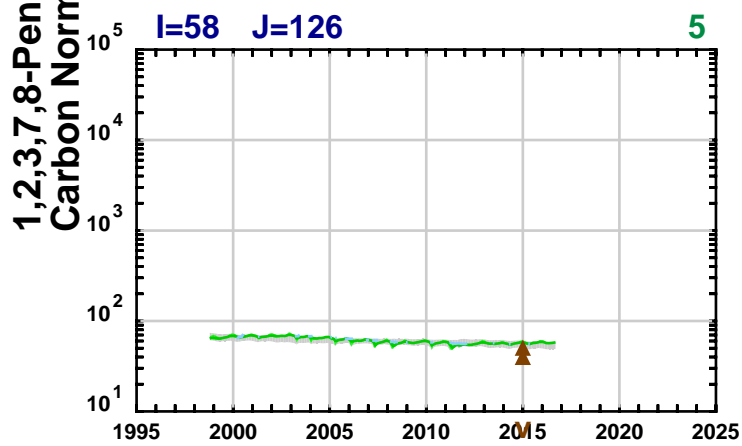
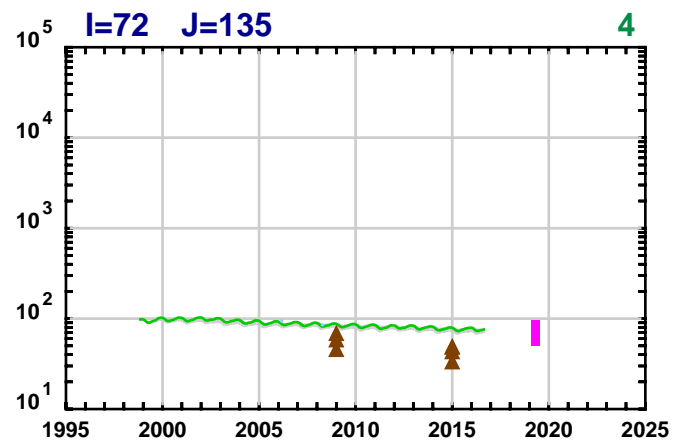
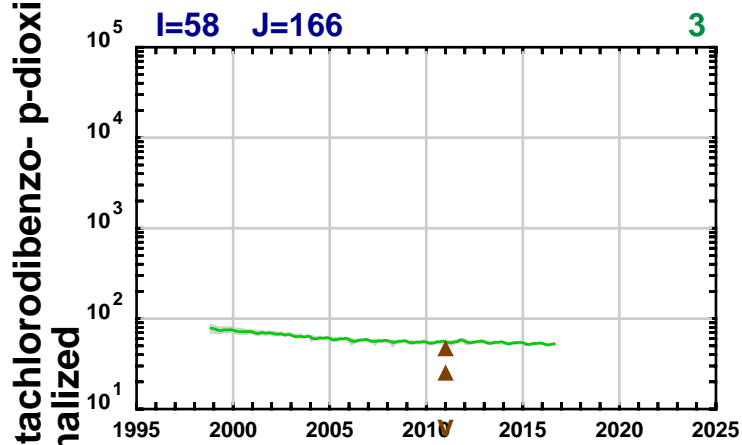
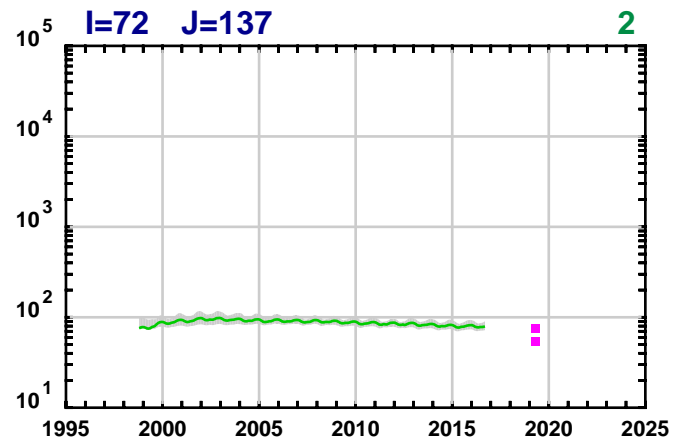
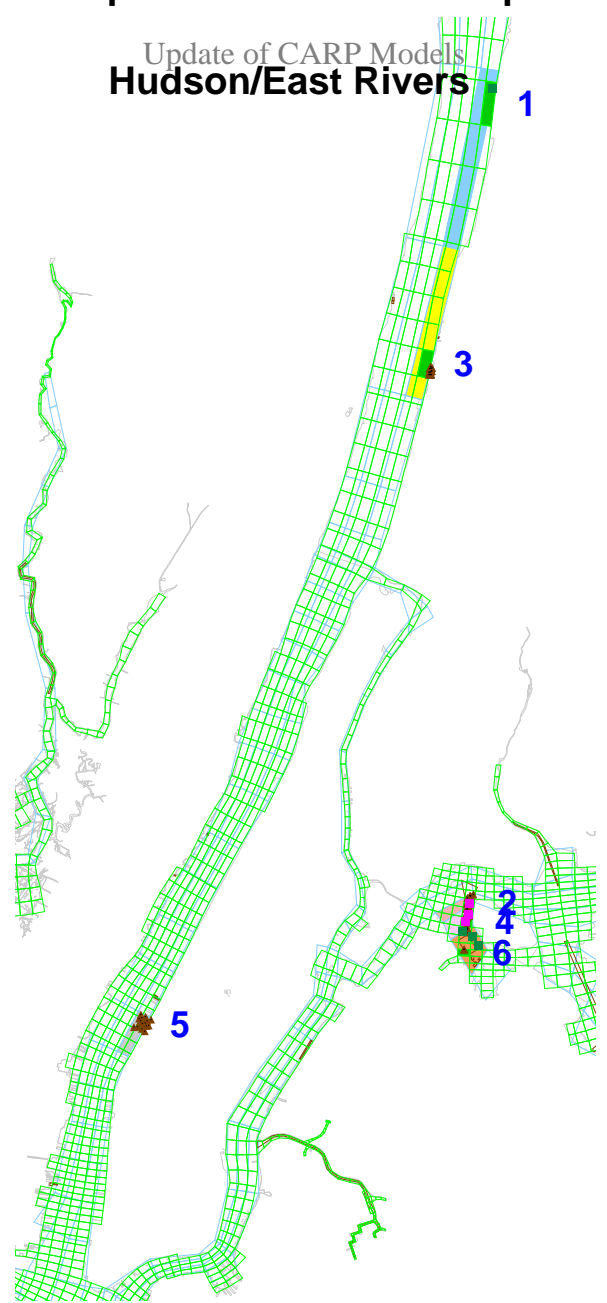
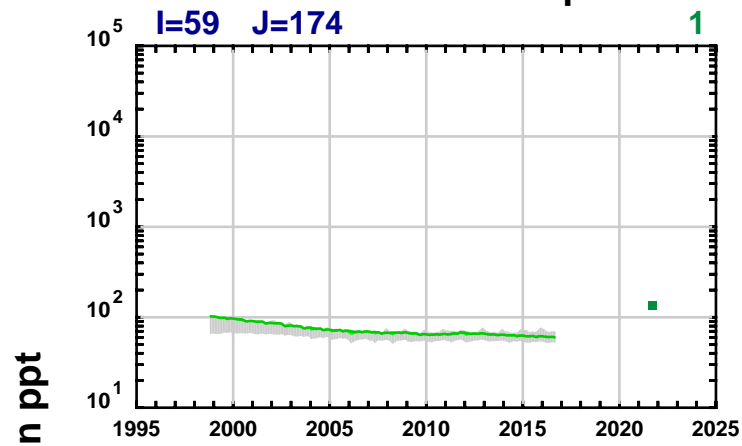
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

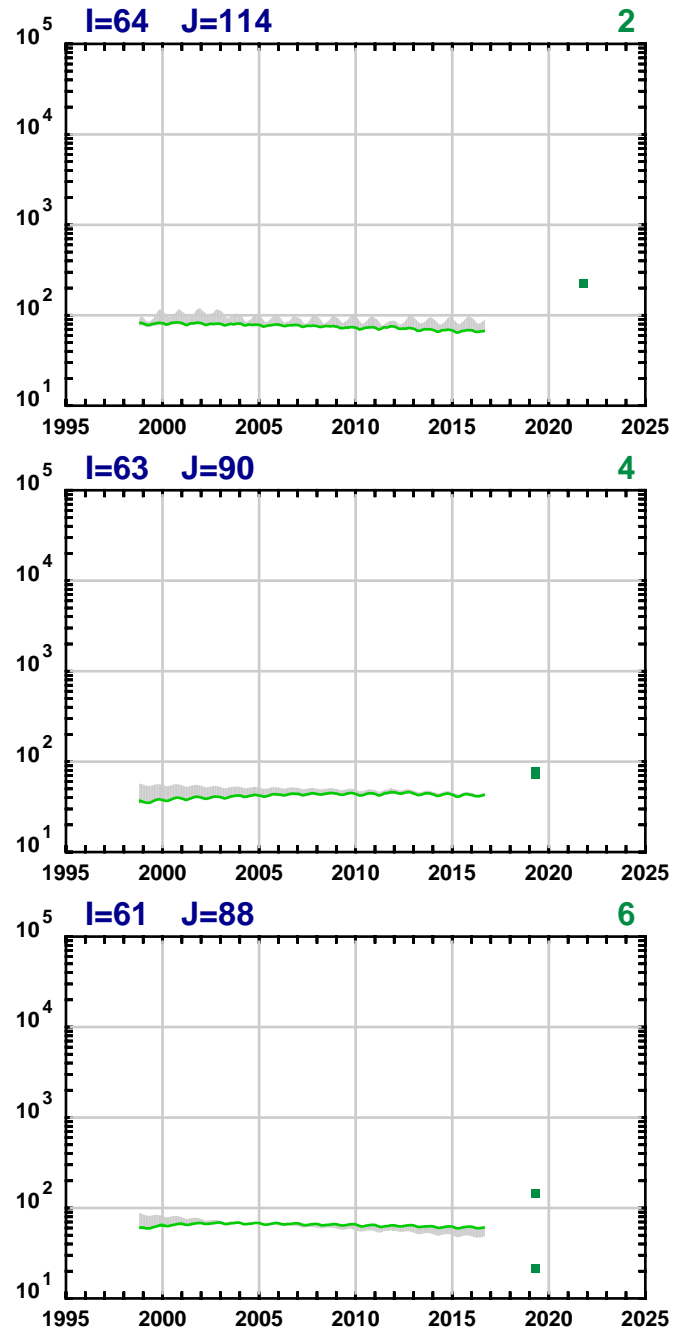
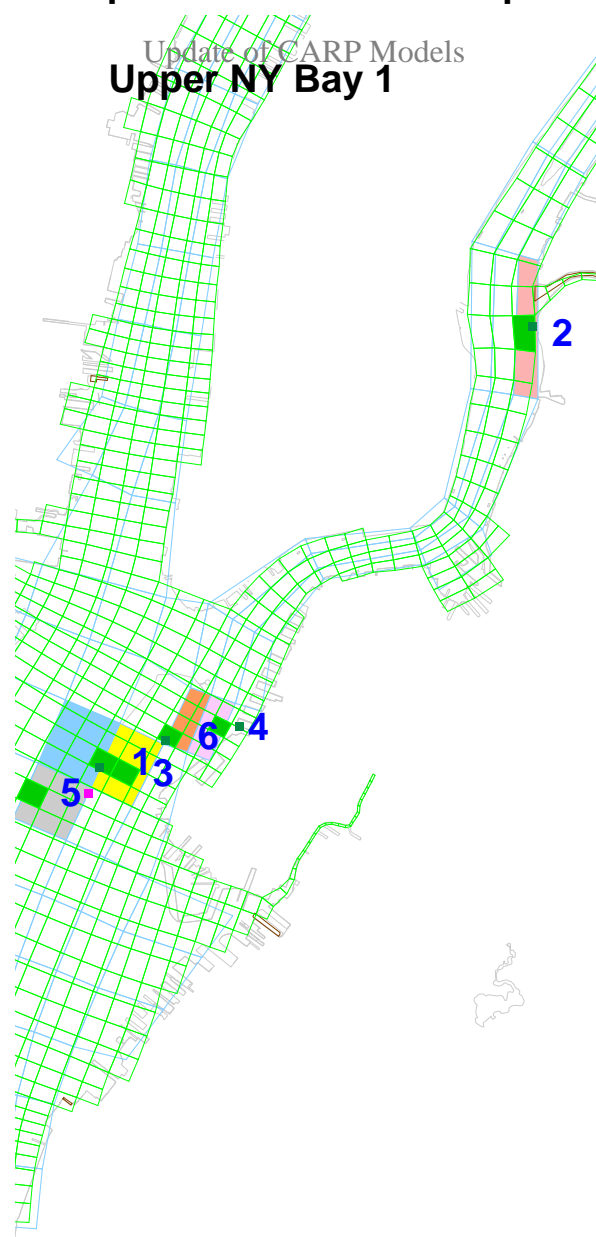
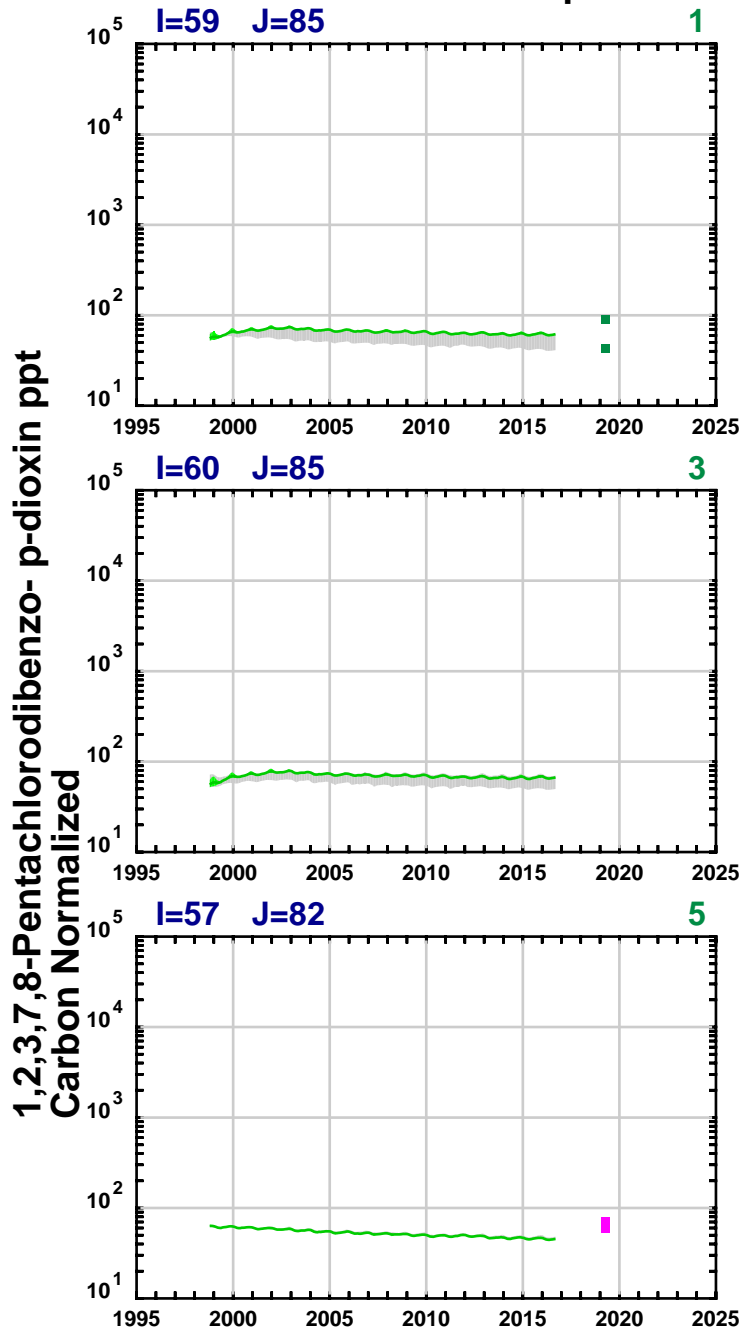


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

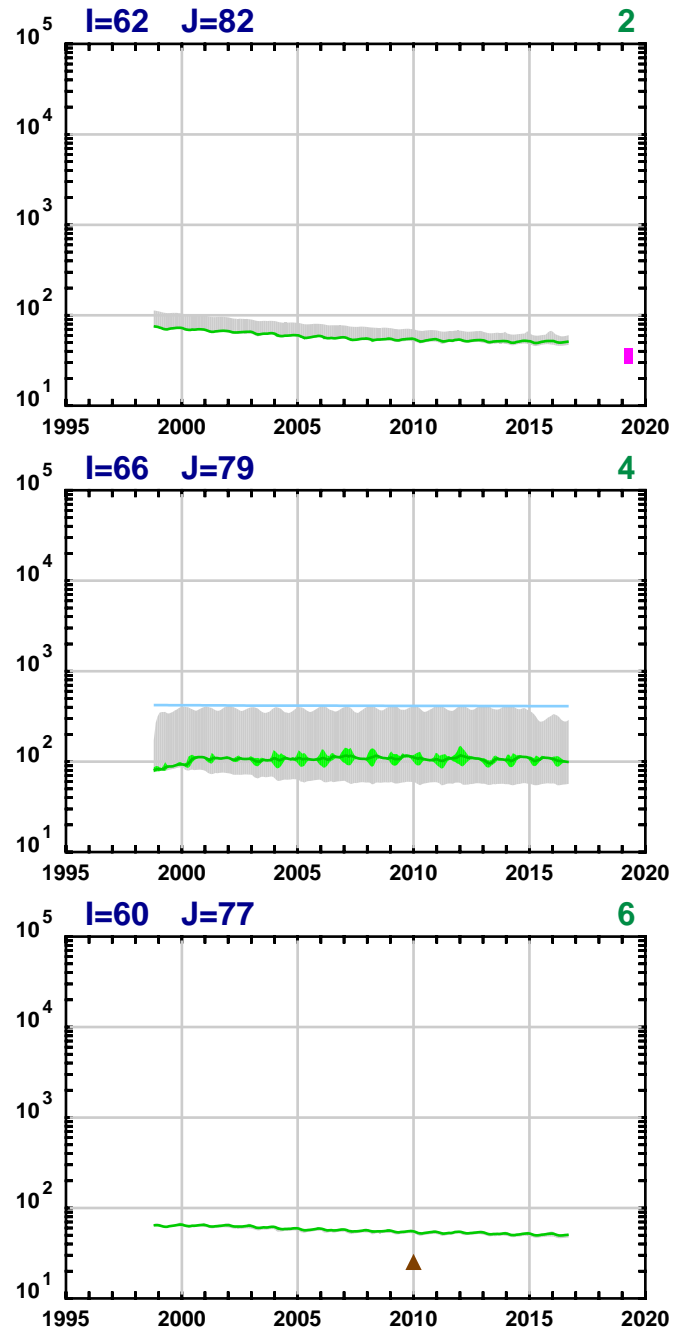
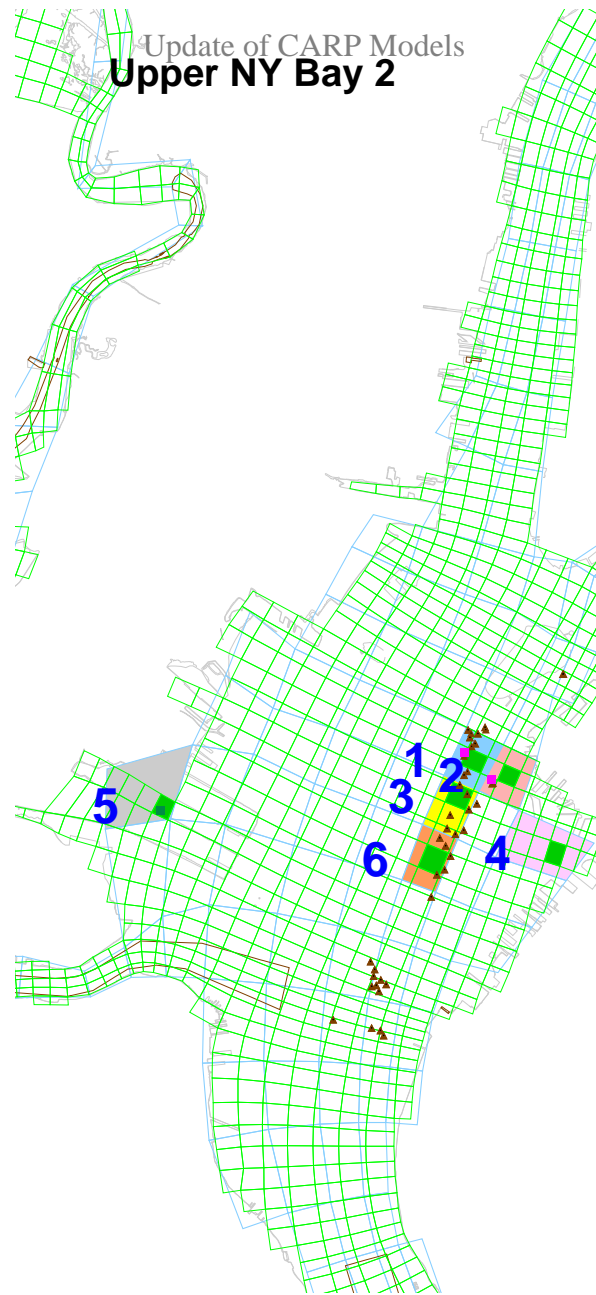
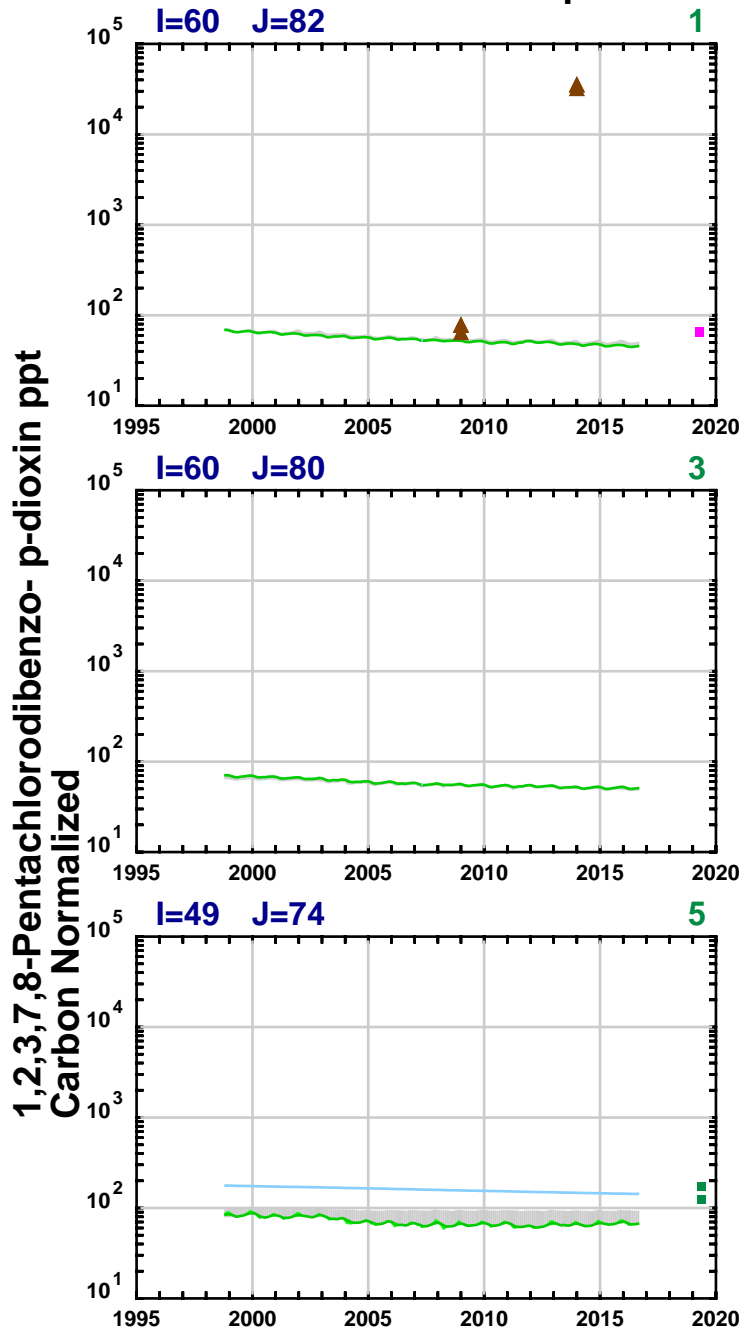


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

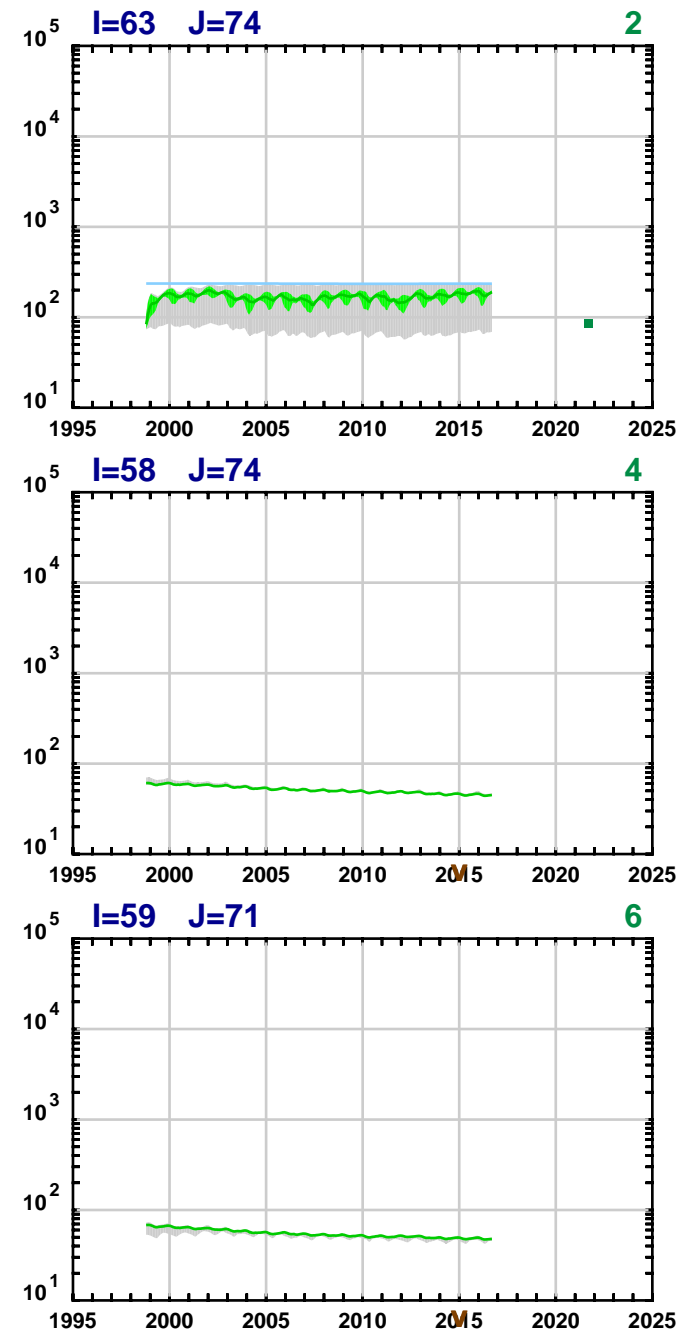
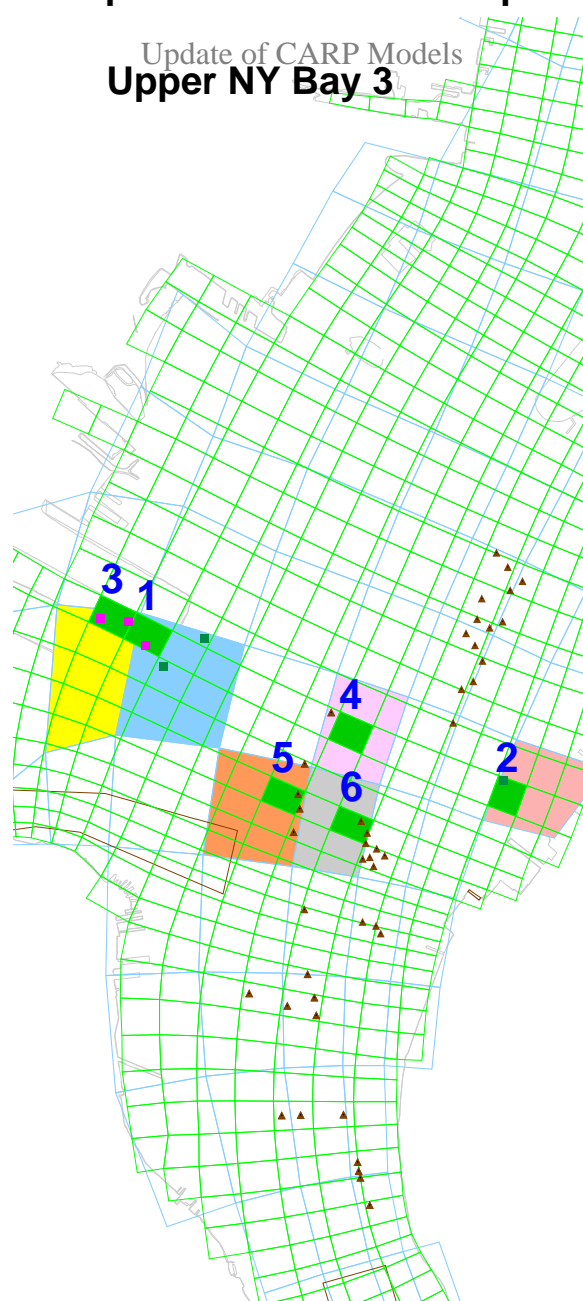
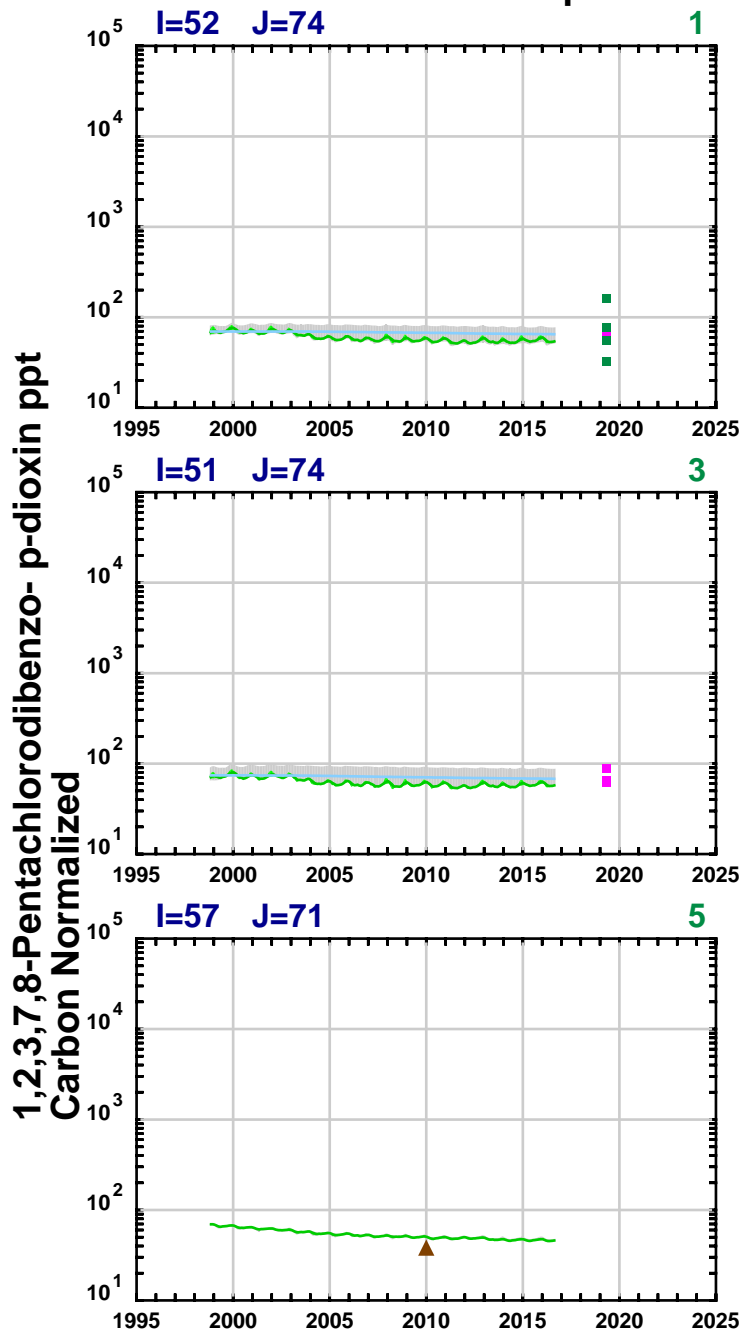


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

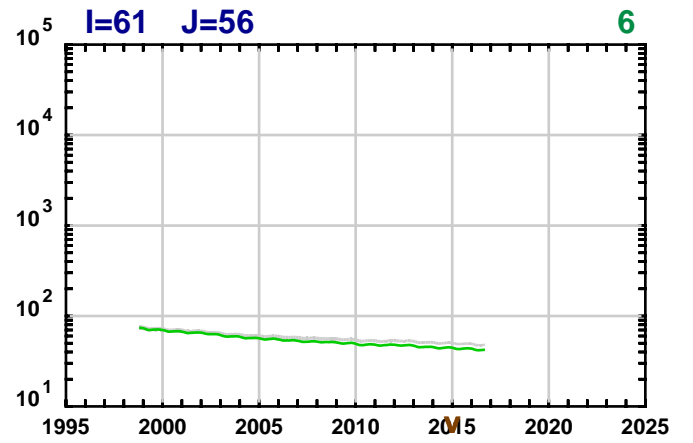
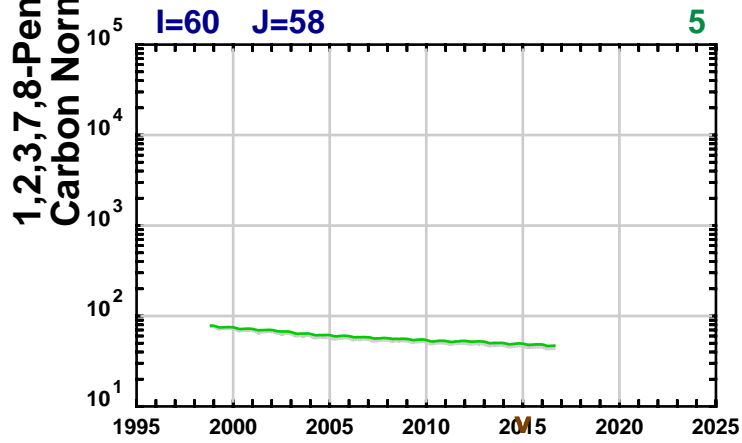
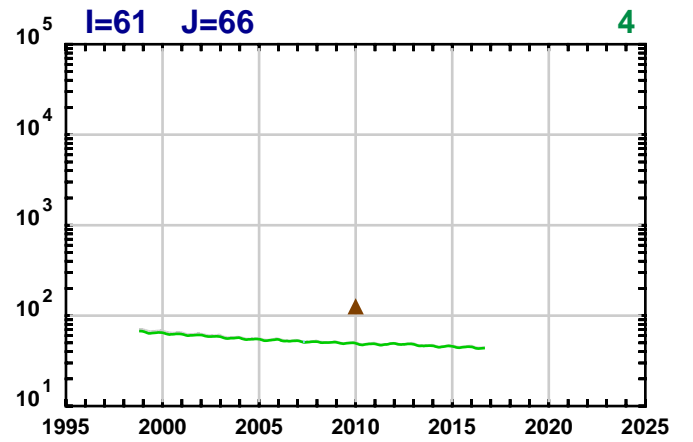
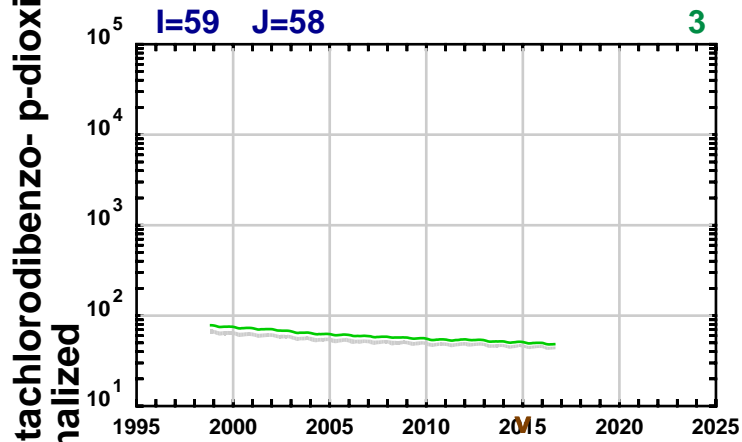
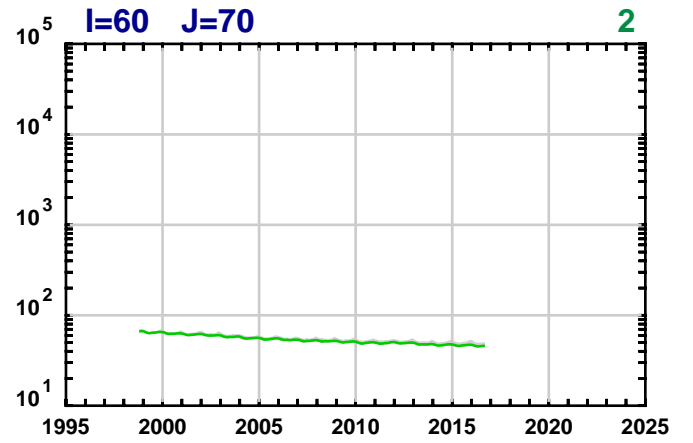
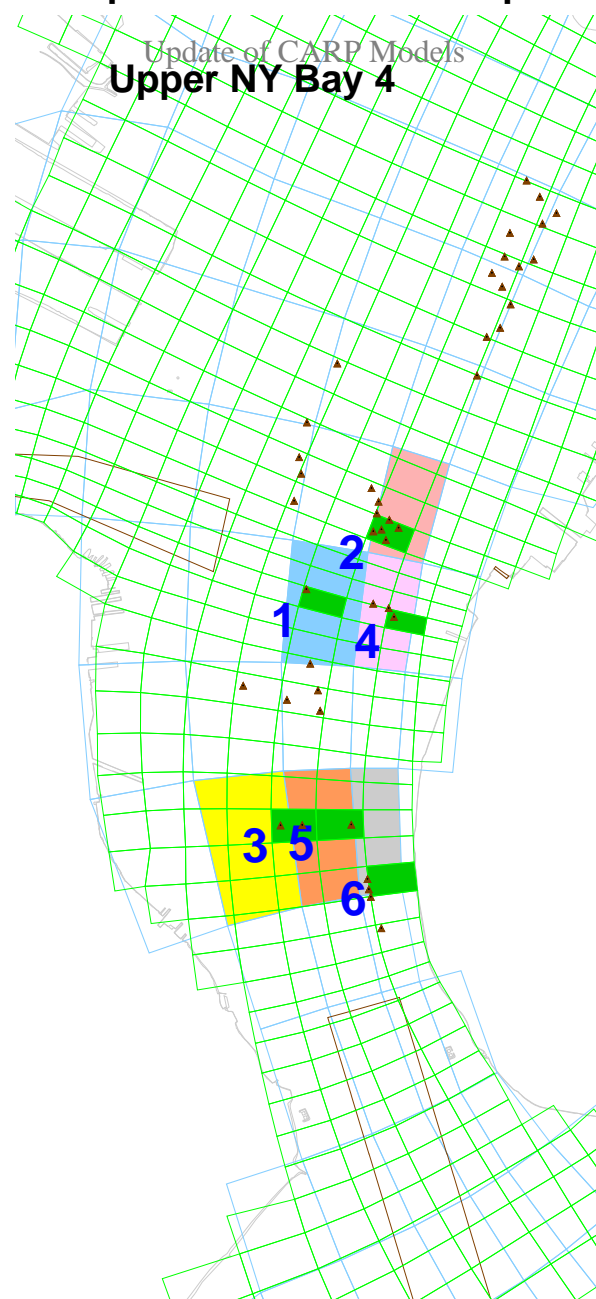
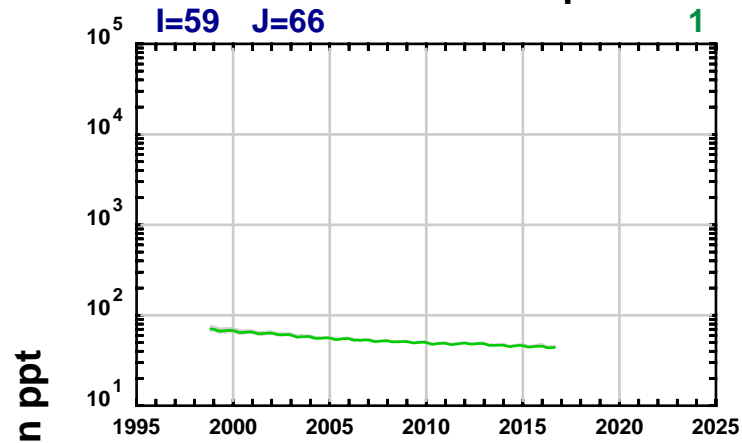


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

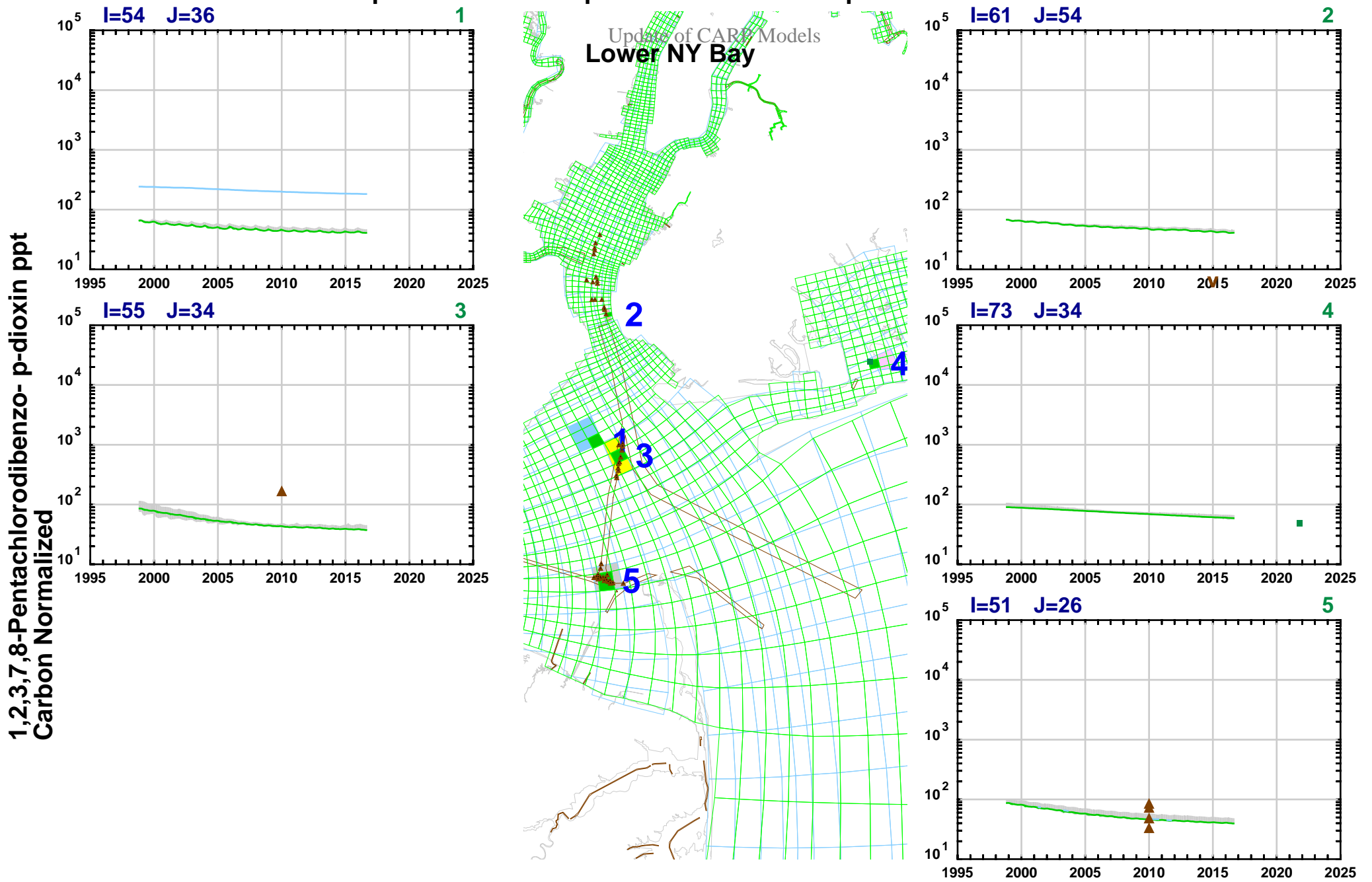


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



RUN18\_S4\_R2

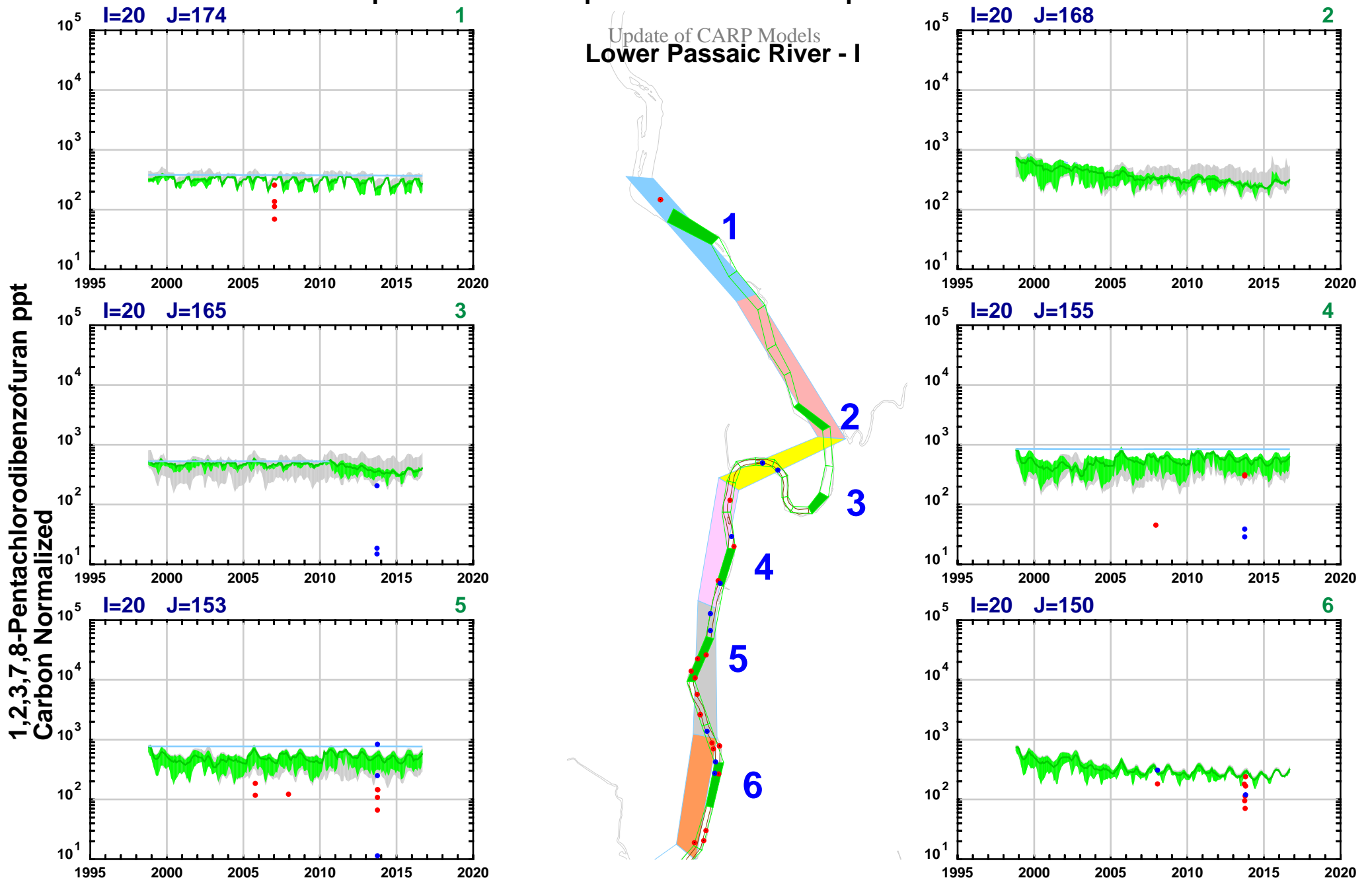
Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

## Update of CARP Models Lower Passaic River - I



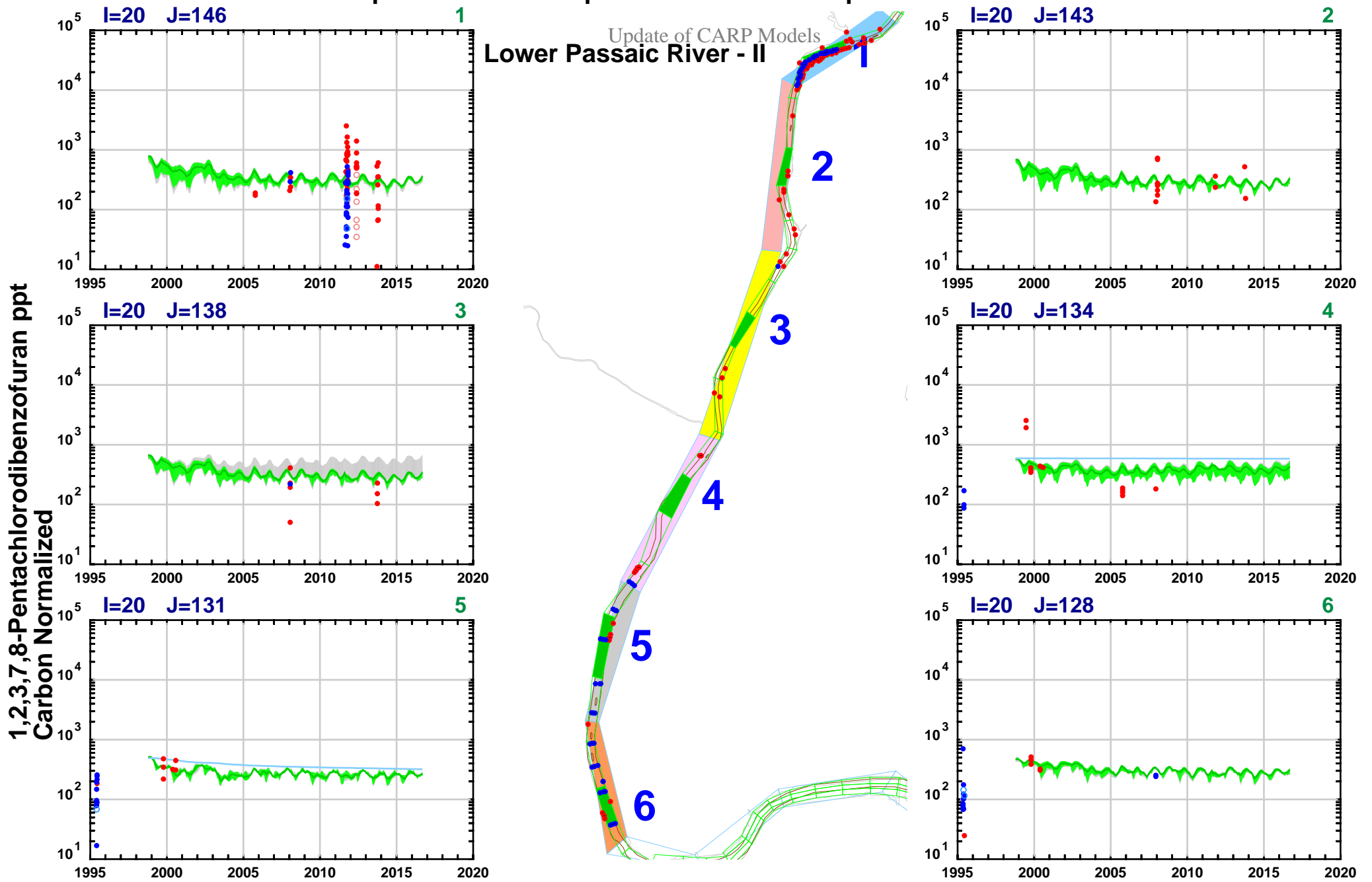
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

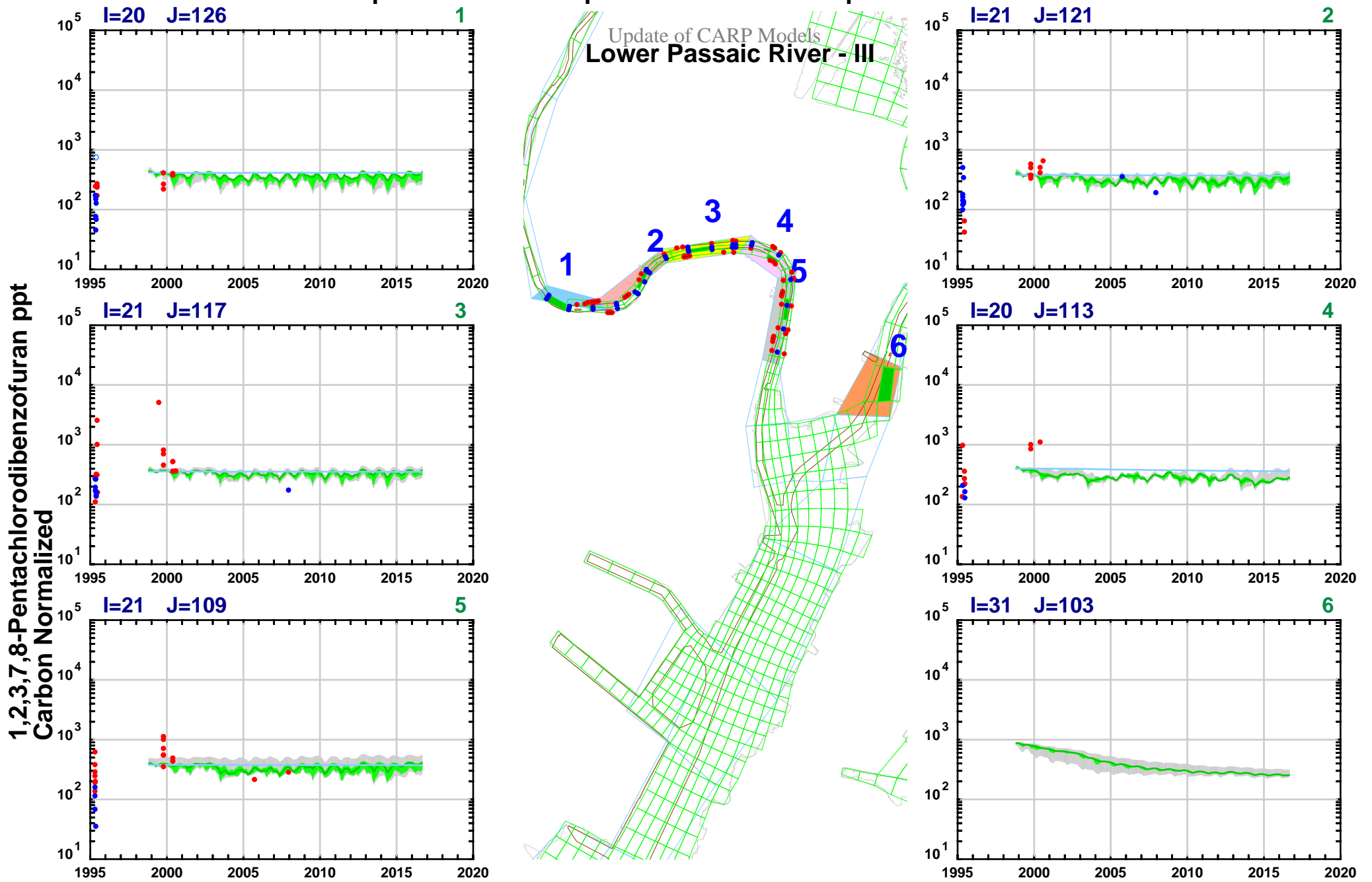


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

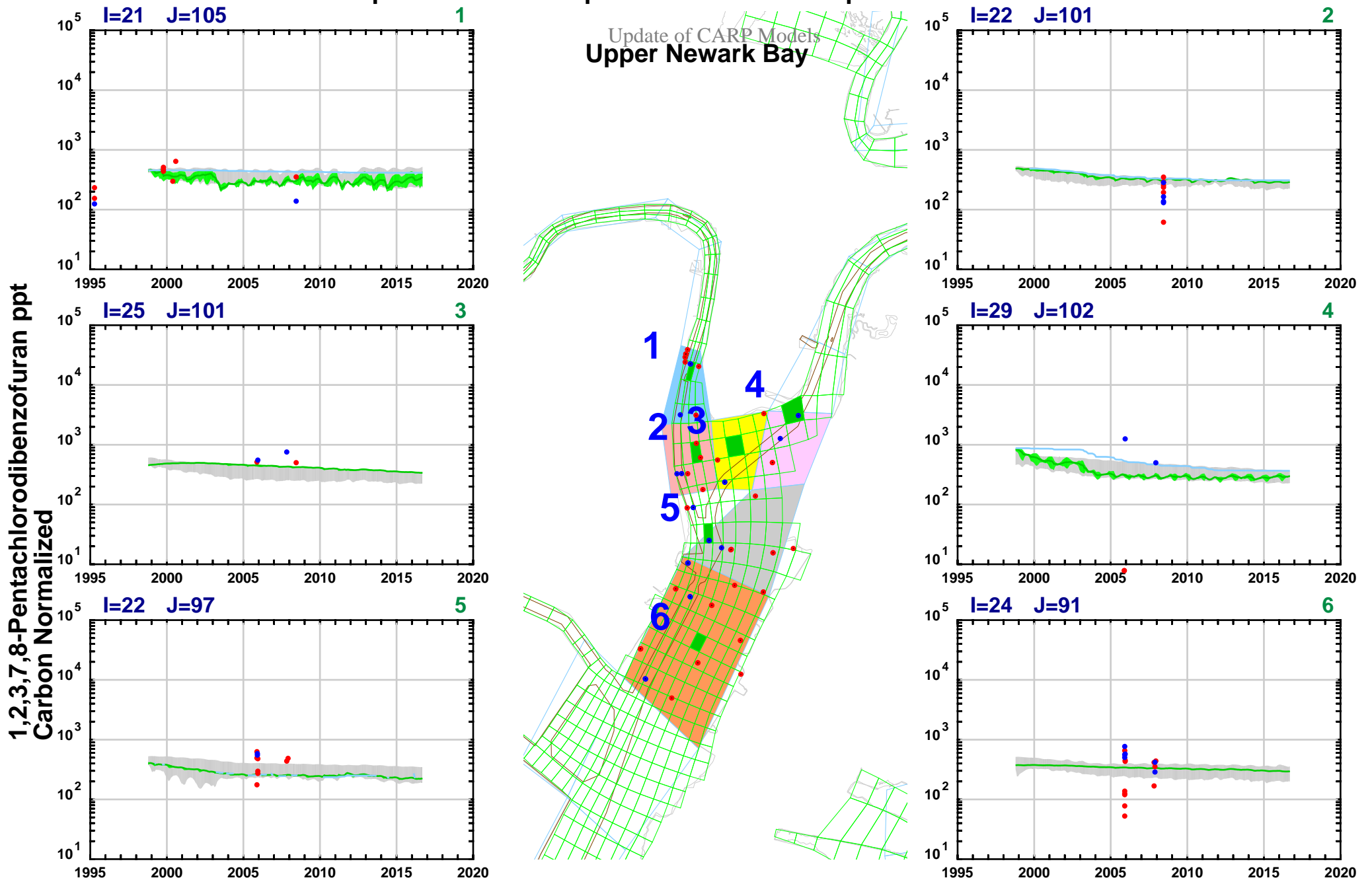


**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data    ● Off-channel data    ▲ Dredge data**  
**■ CARP2 In-channel    ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment



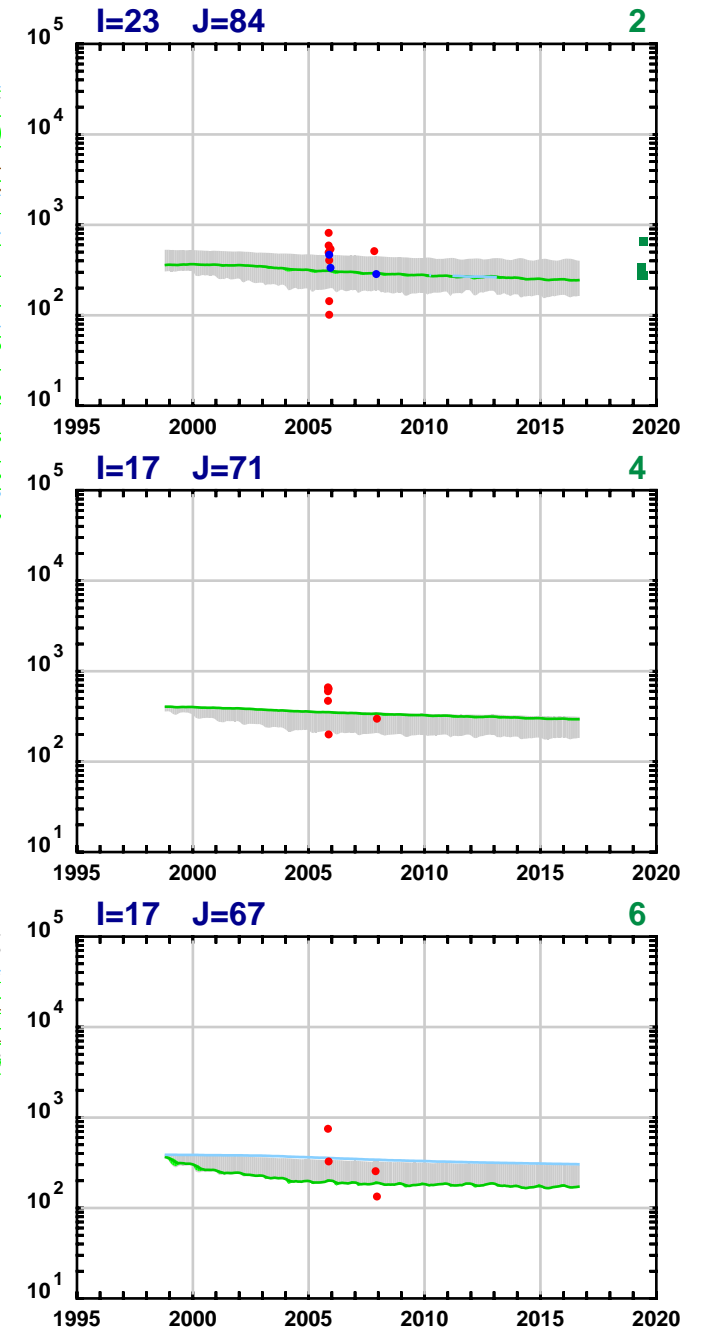
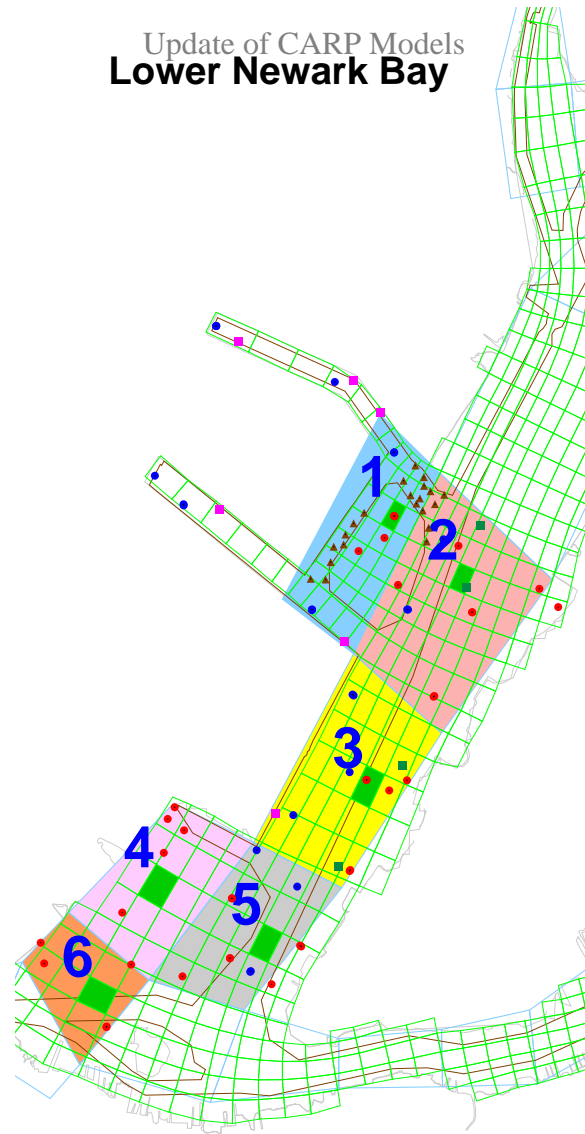
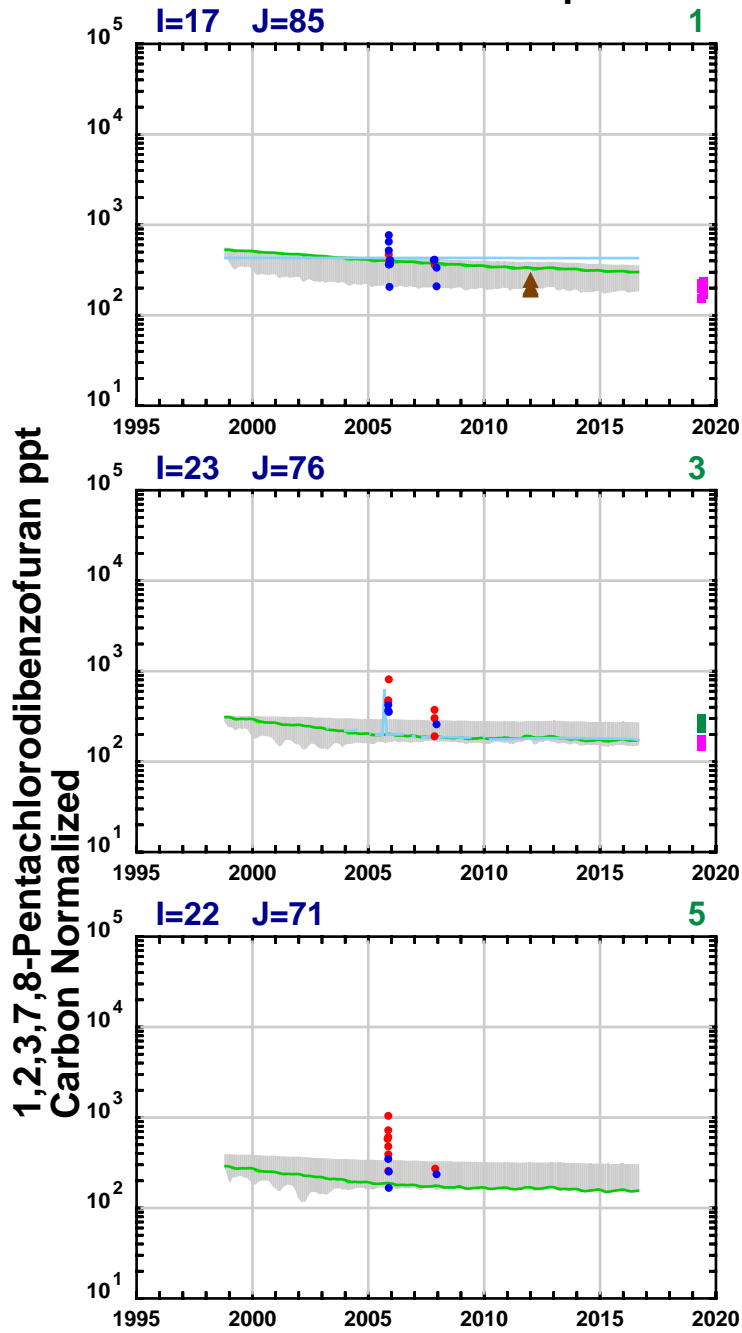
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Lower Newark Bay



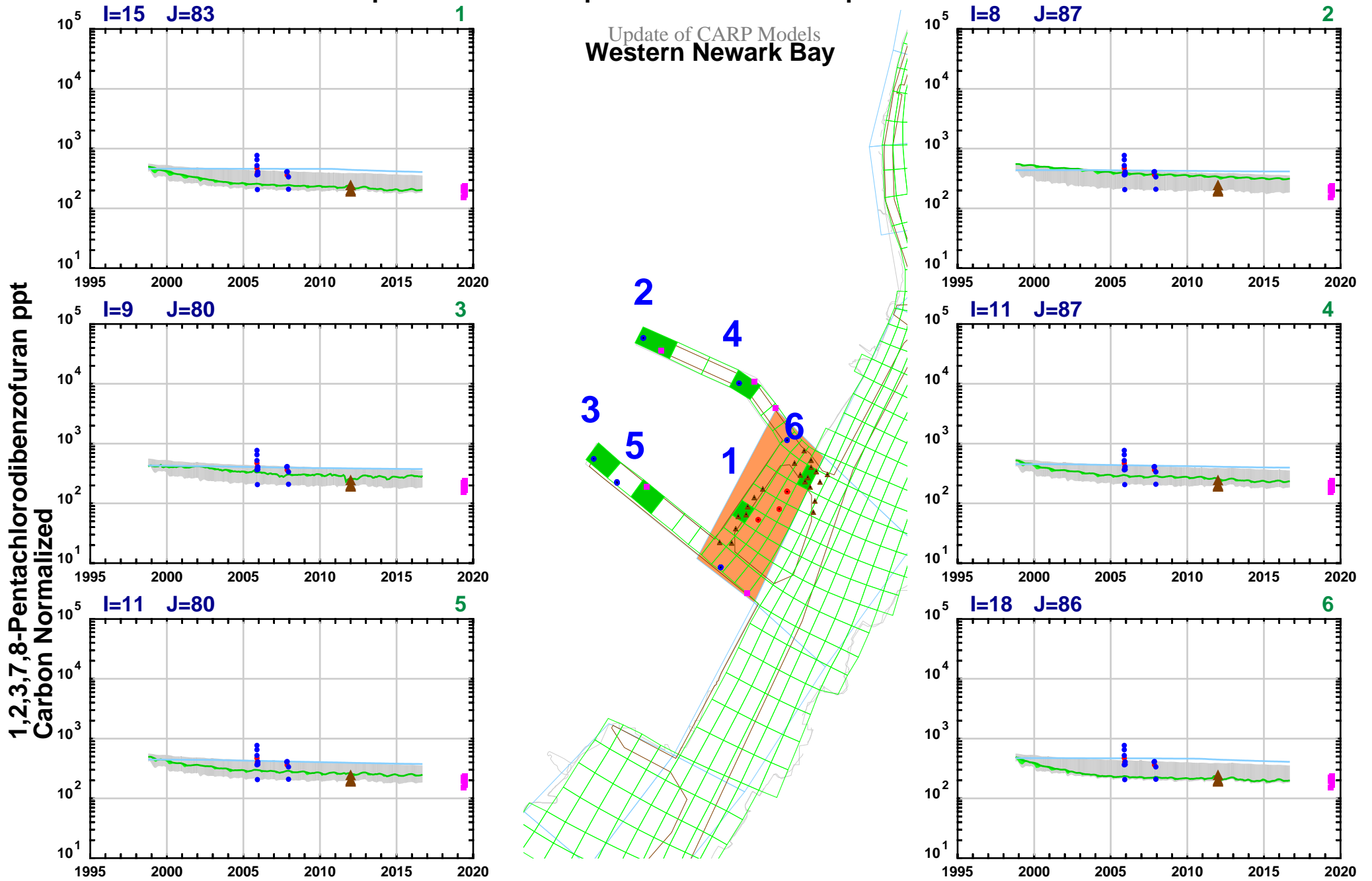
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay



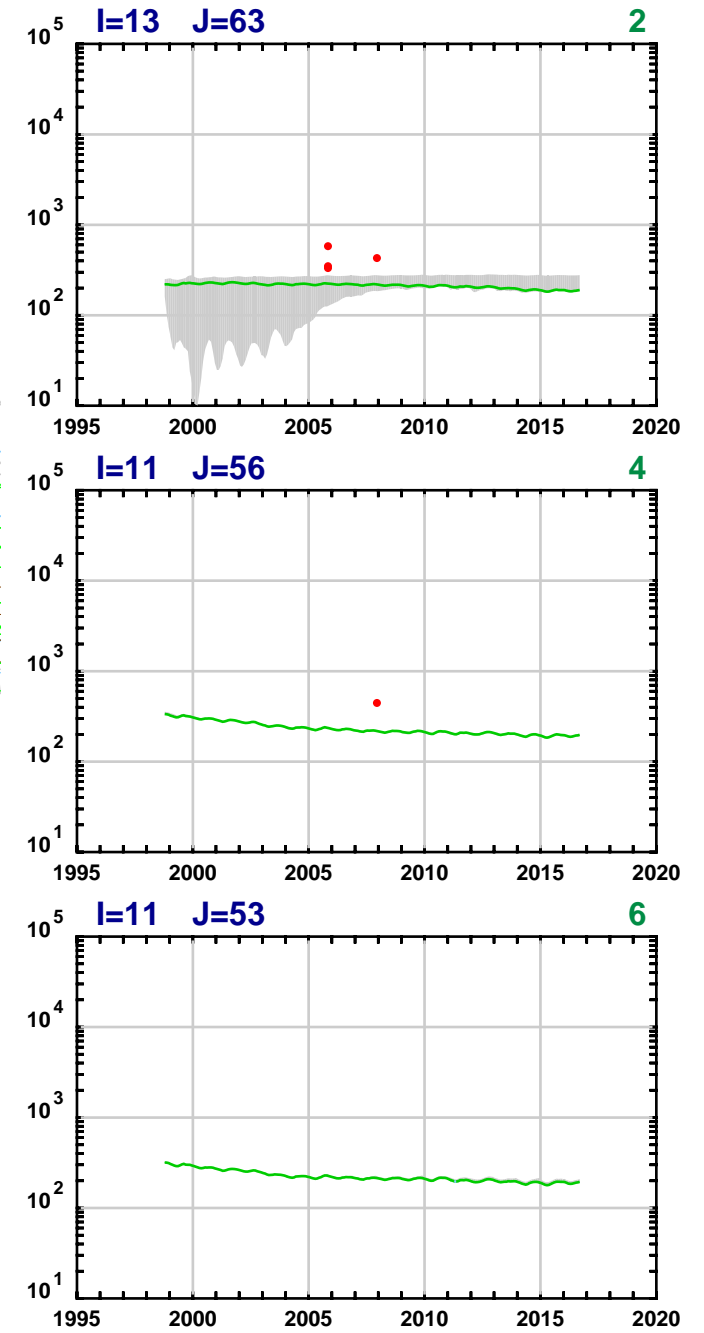
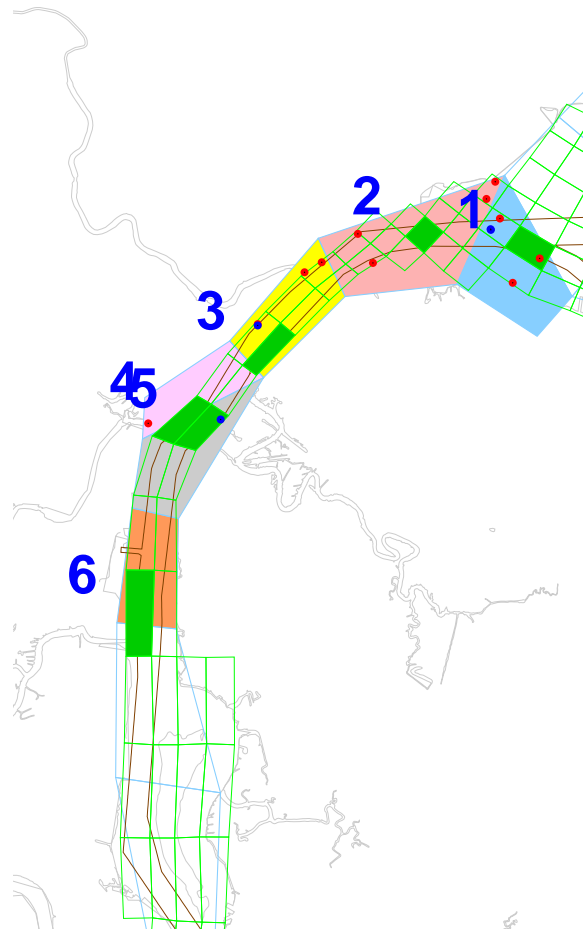
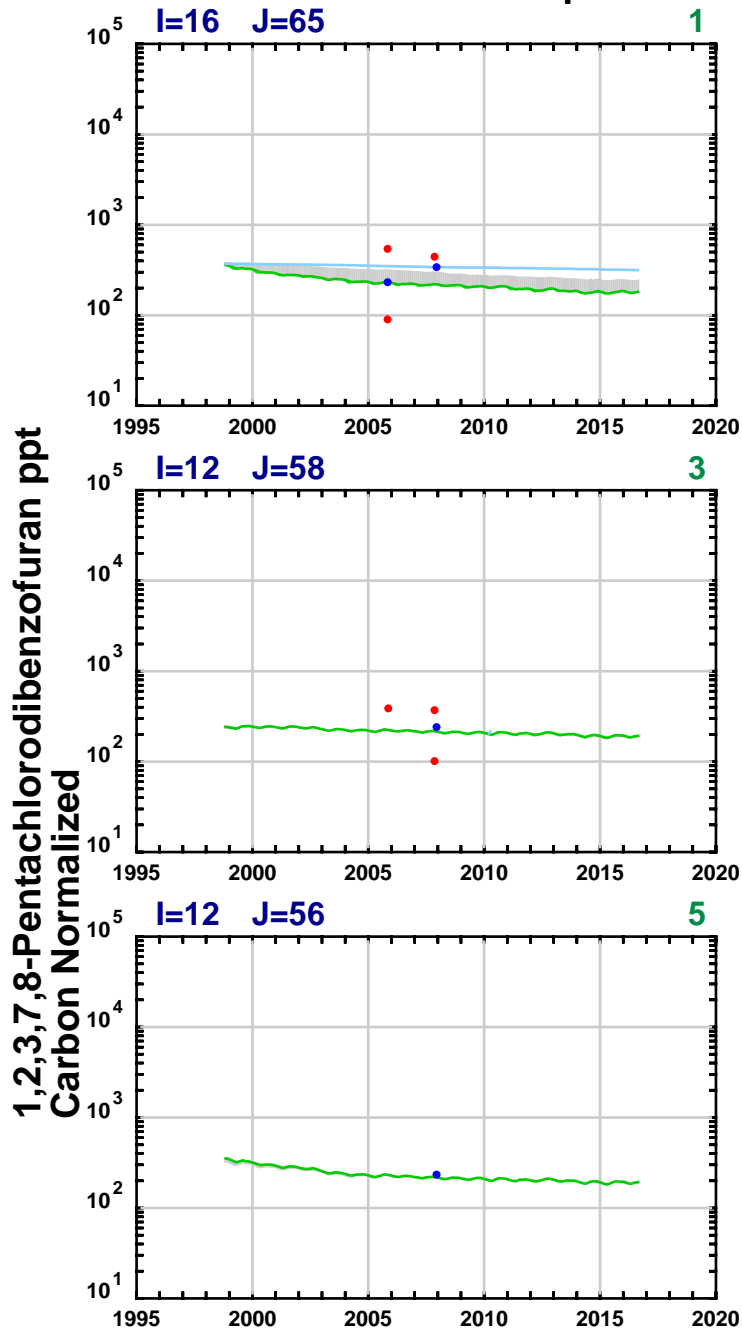
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

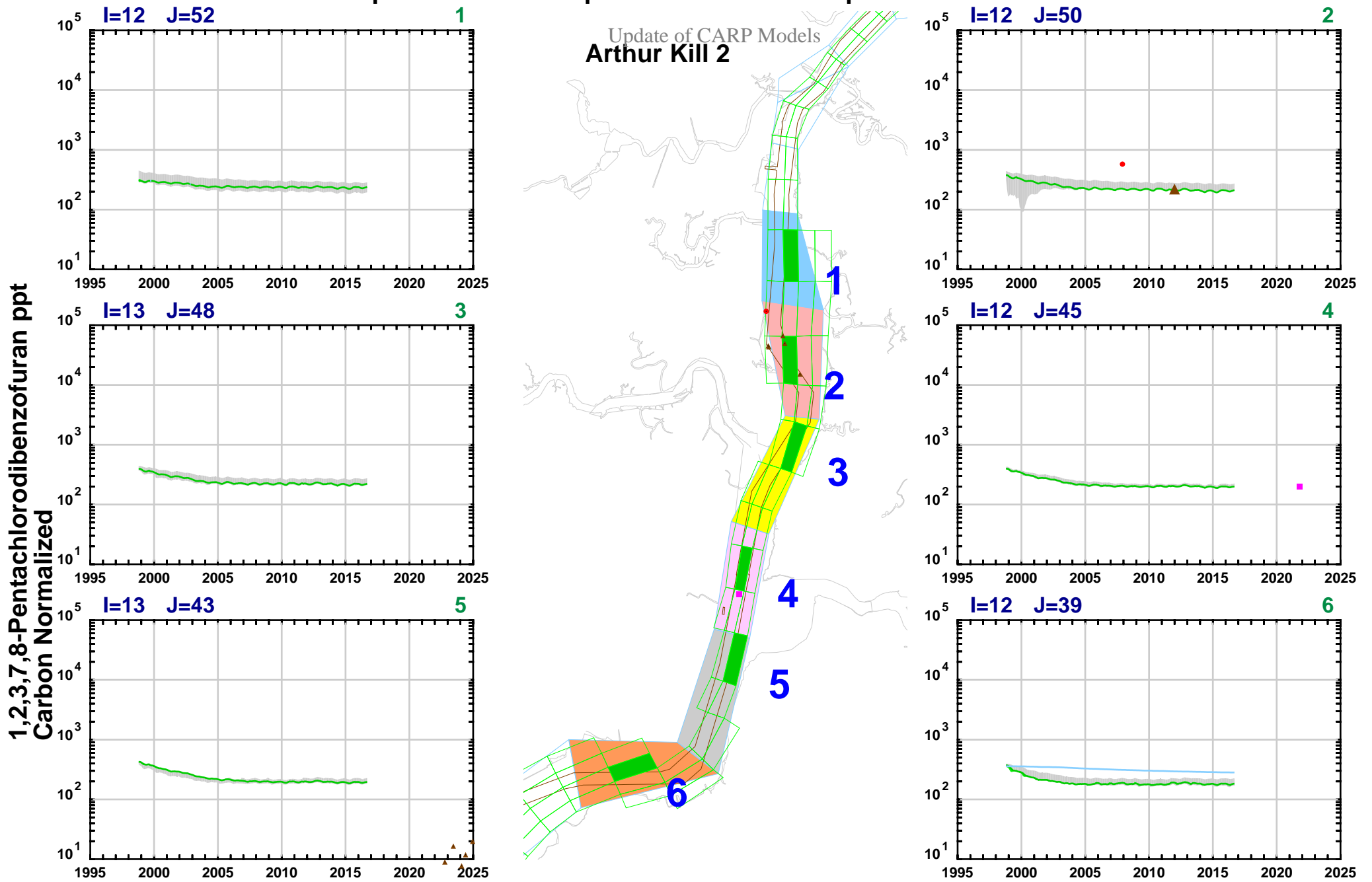


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



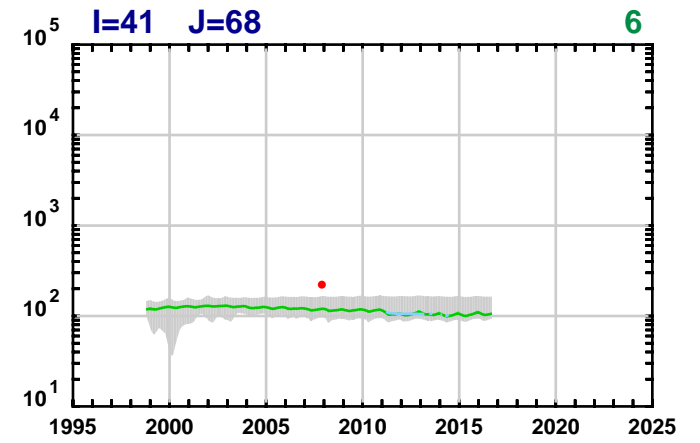
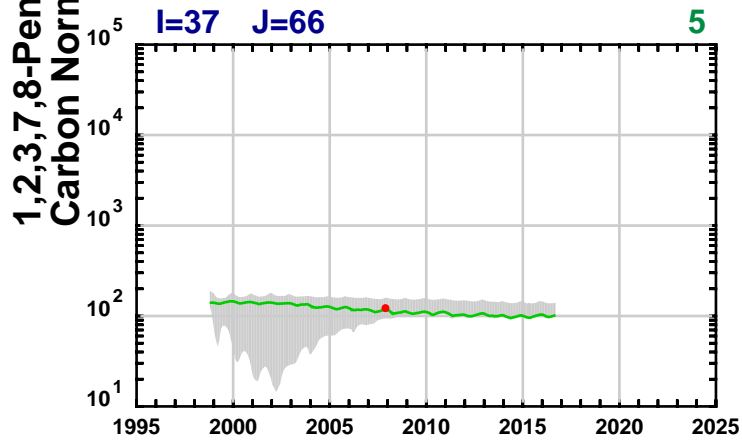
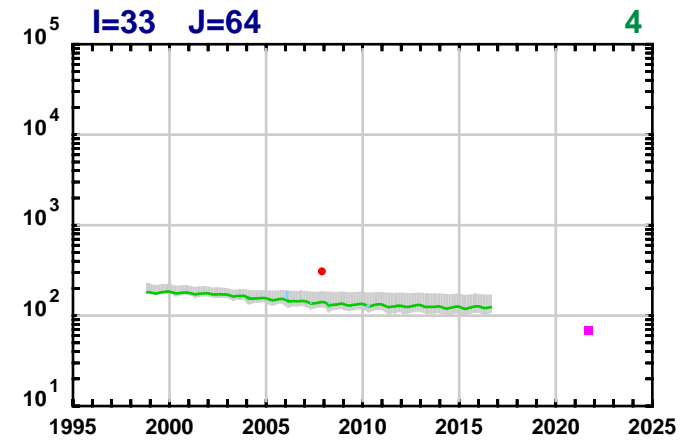
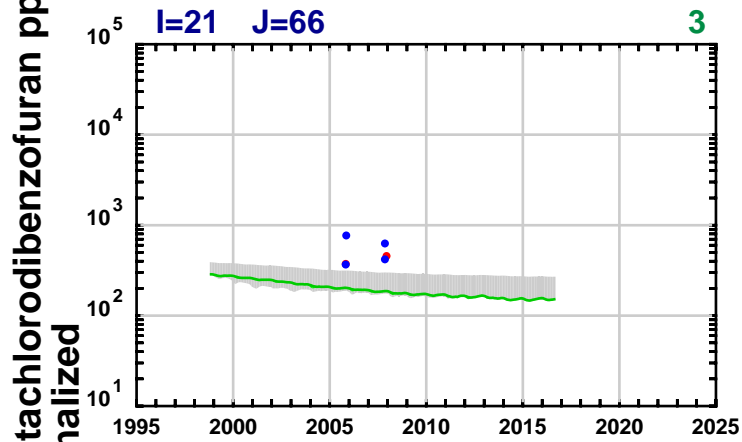
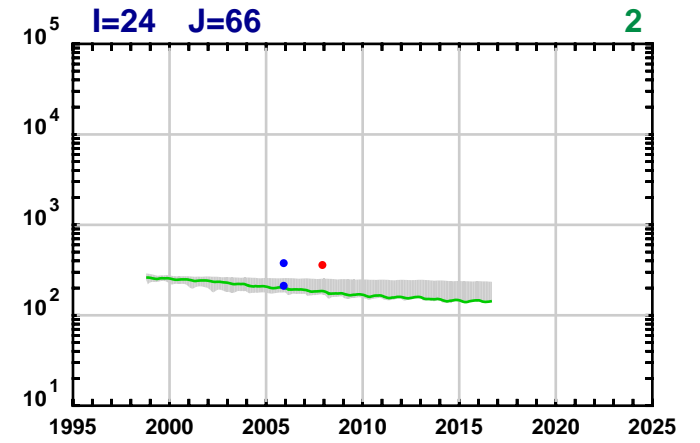
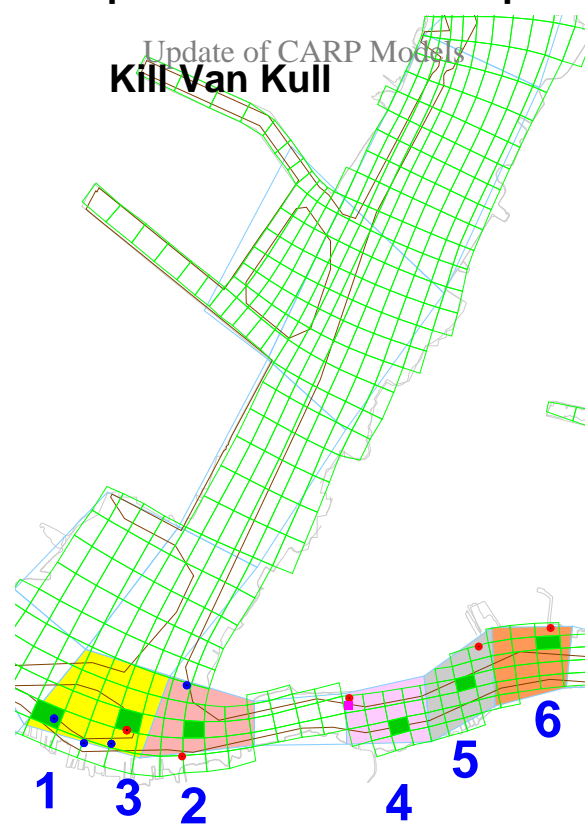
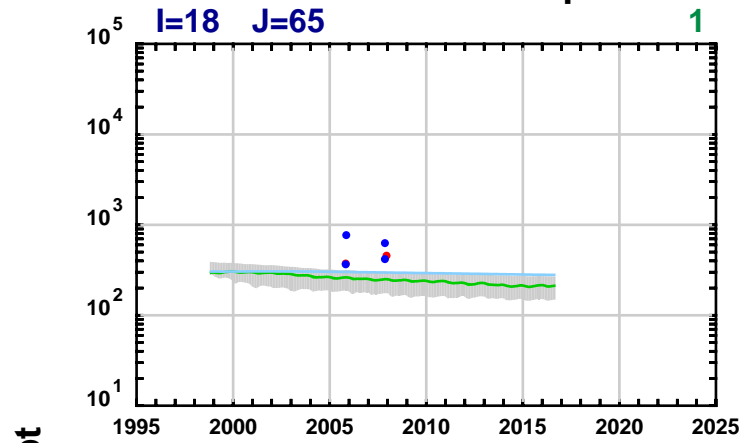
**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data**    **● Off-channel data**    **▲ Dredge data**  
**■ CARP2 In-channel**    **■ CARP2 Off-channel**



# Top 15 cm data comparison with model top 10 cm sediment

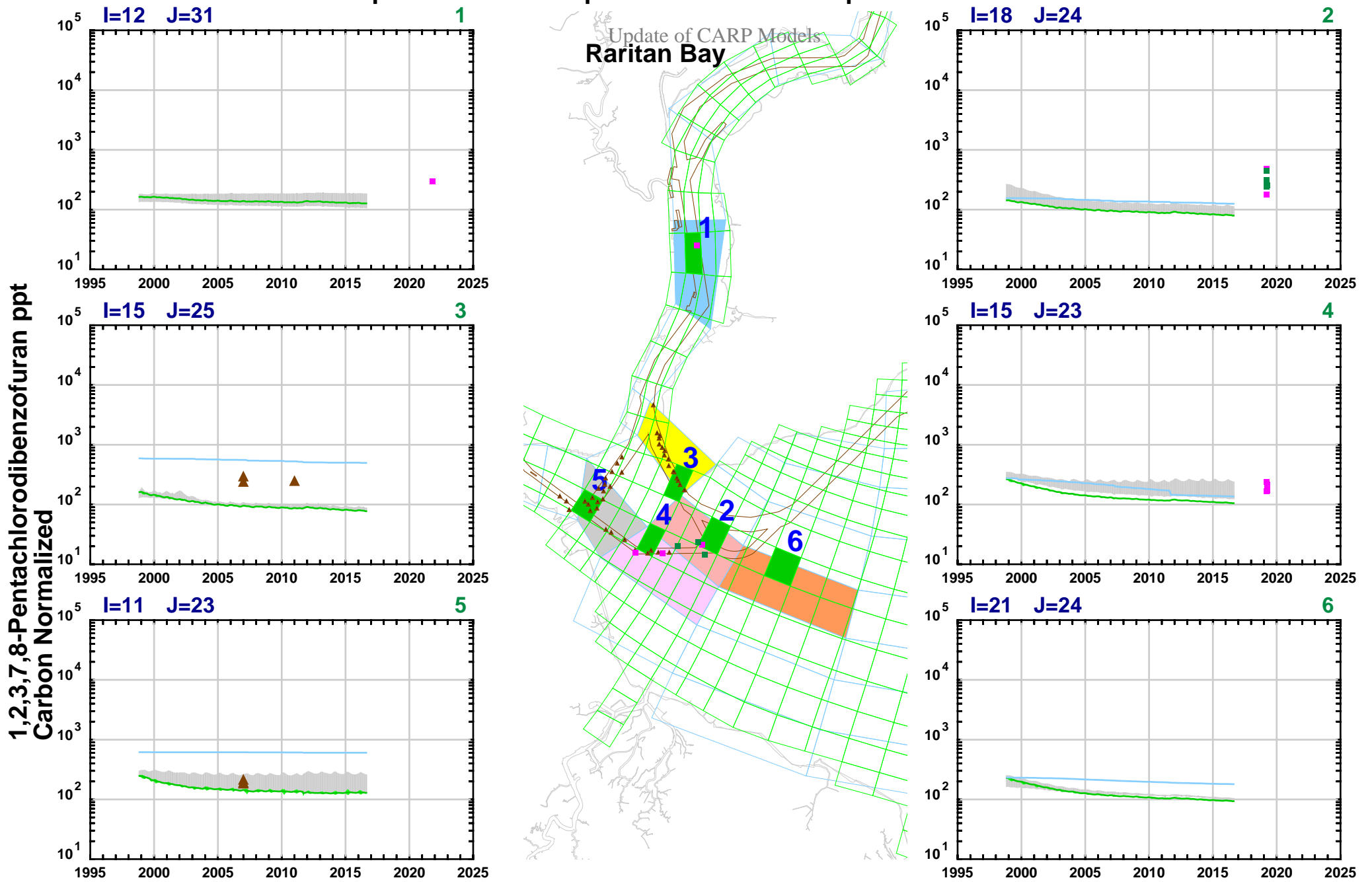


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

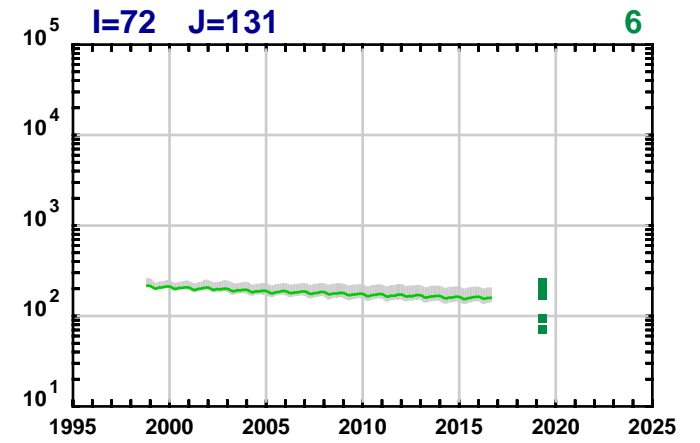
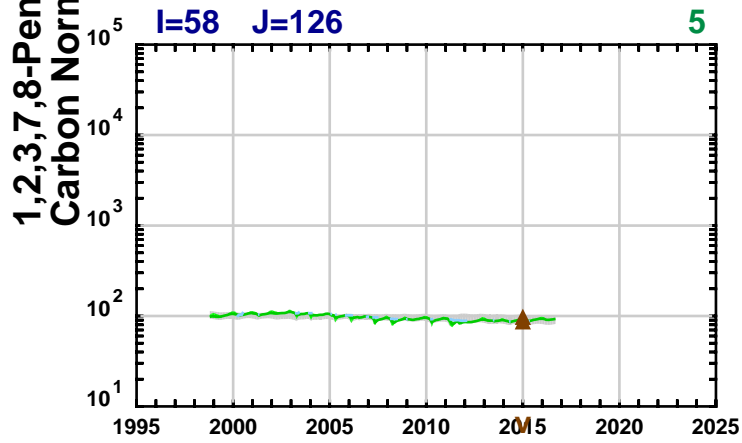
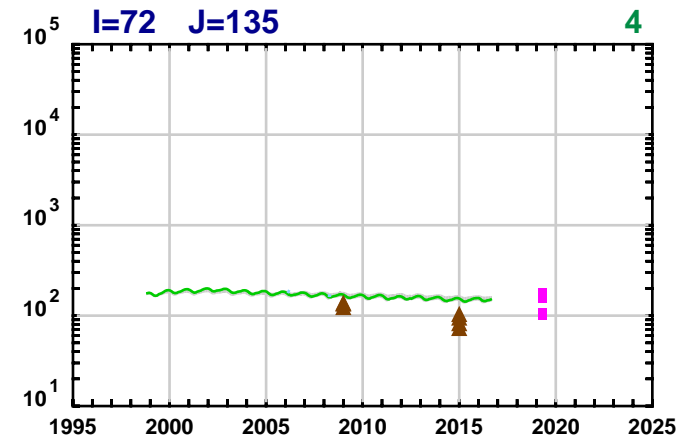
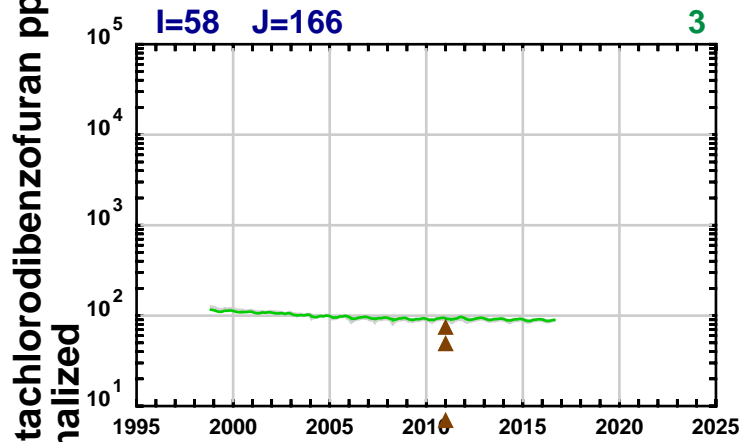
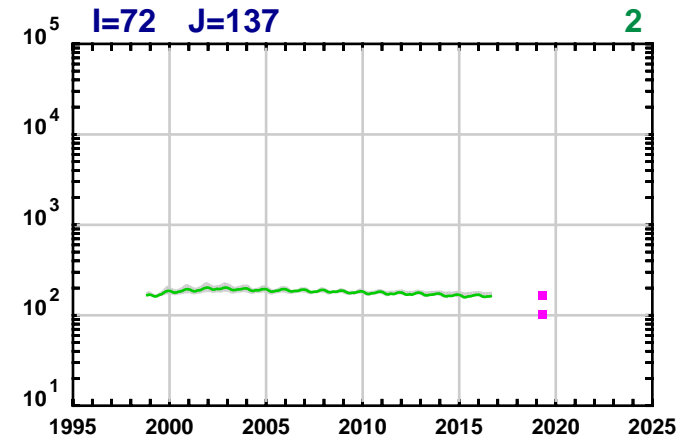
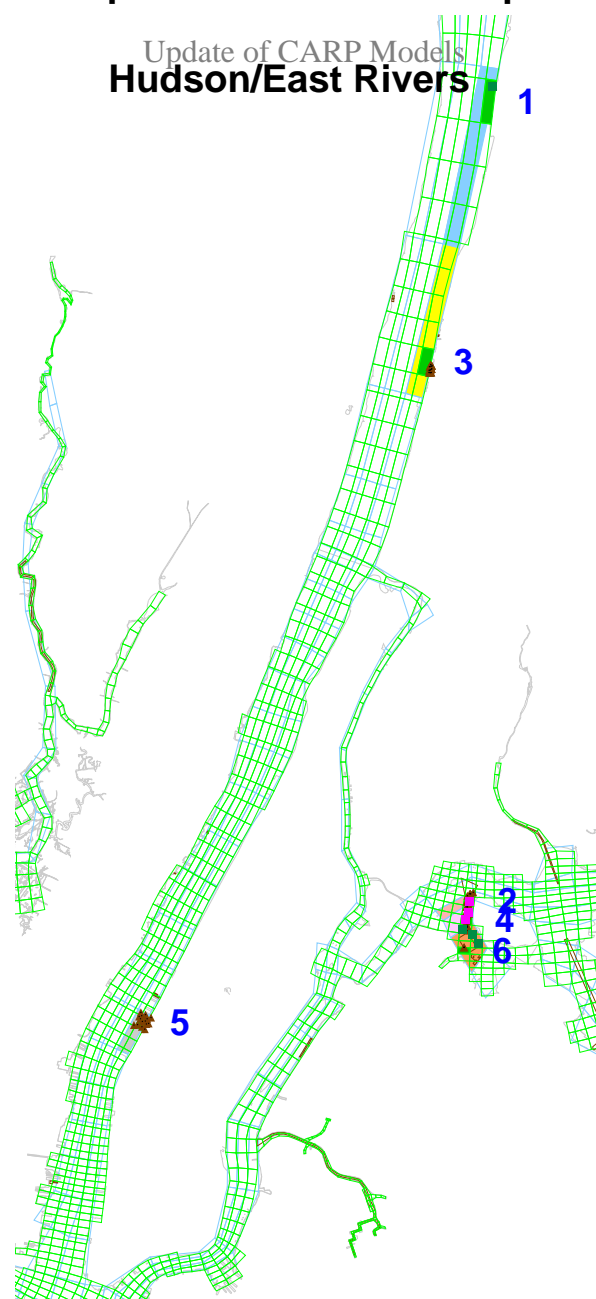
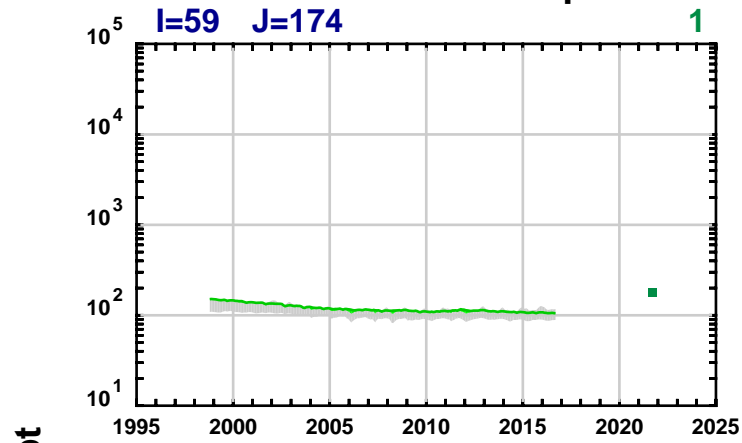


**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

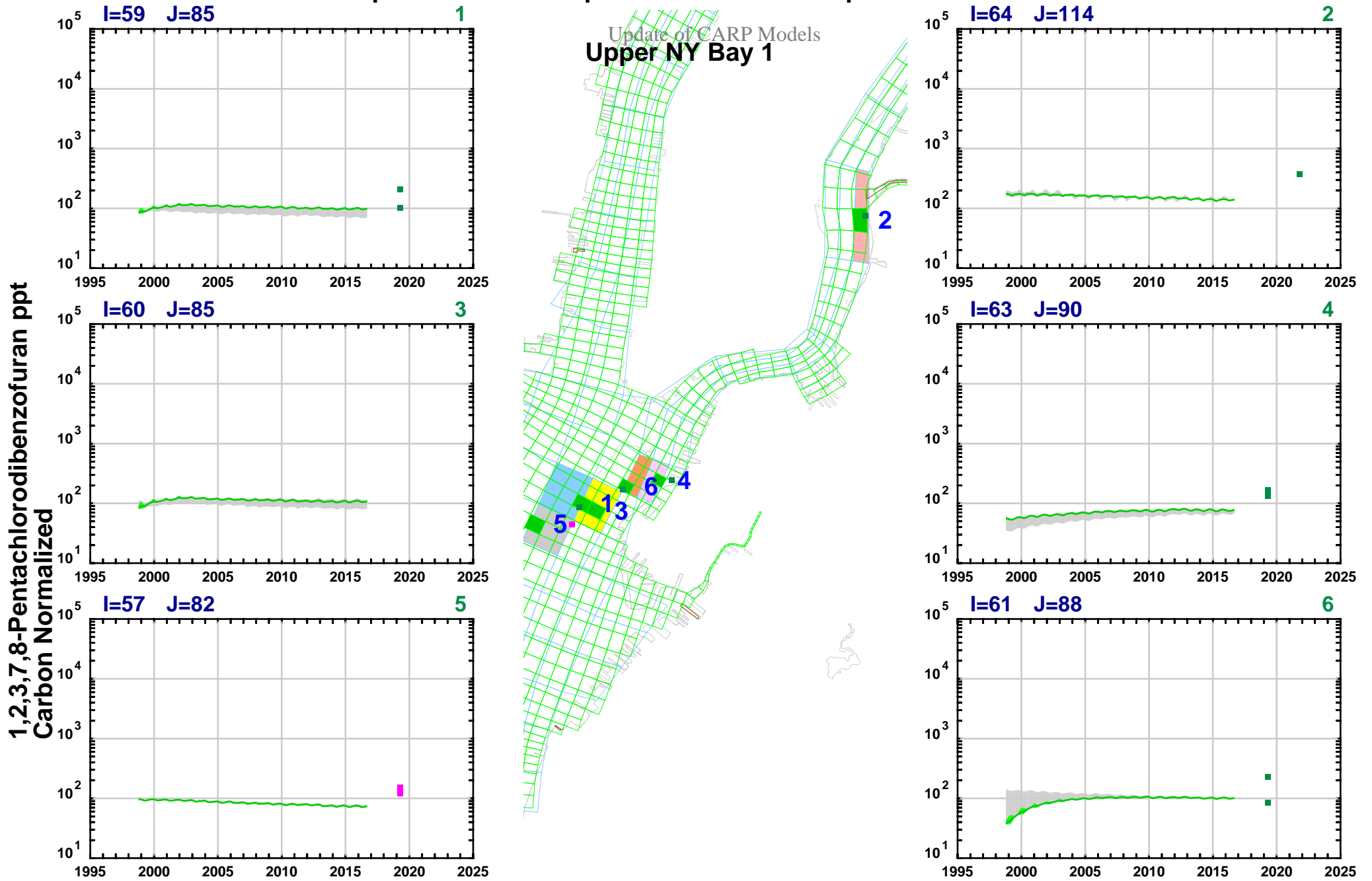


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

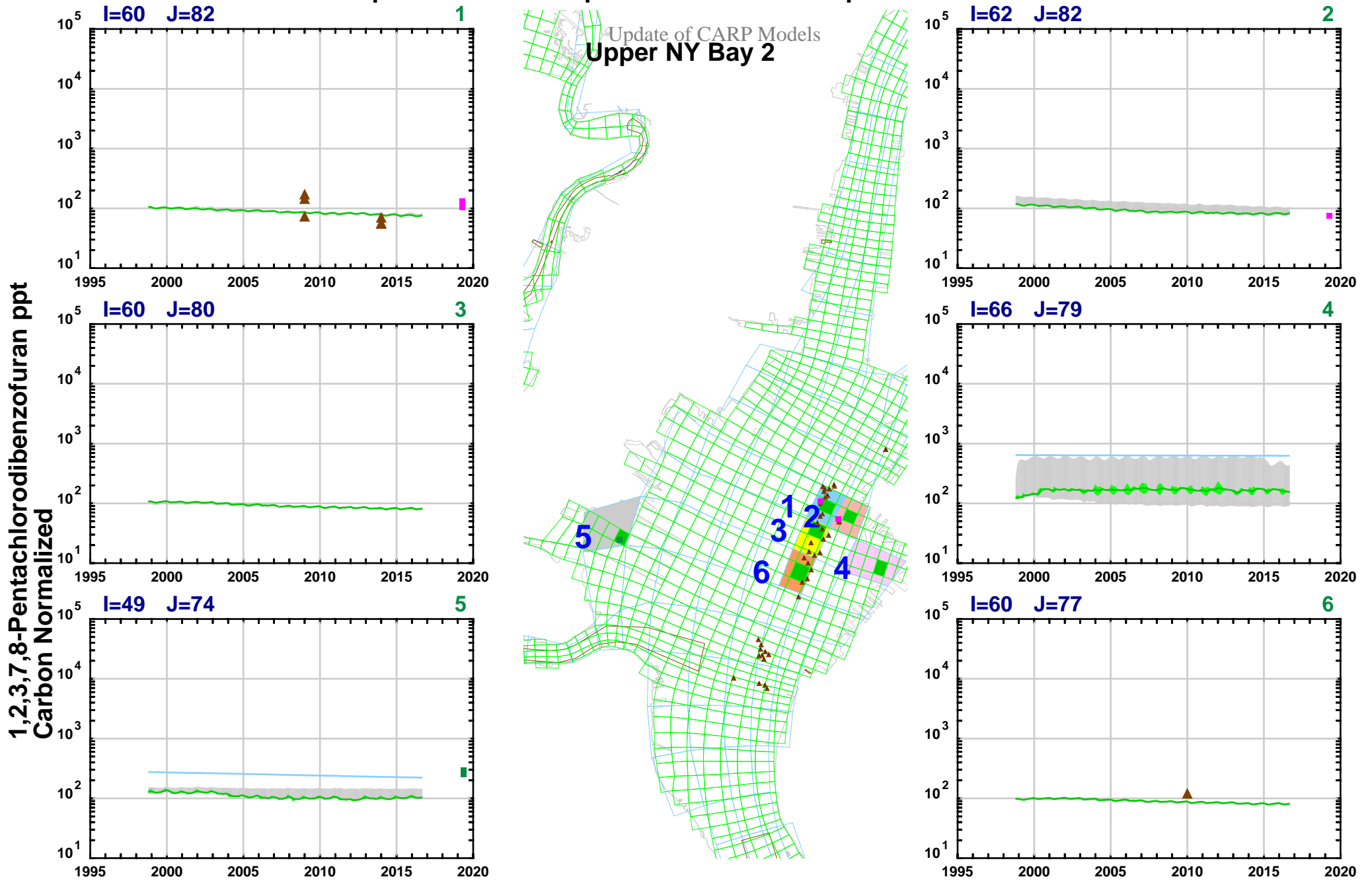


**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data ● Off-channel data ▲ Dredge data**  
**■ CARP2 In-channel ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment



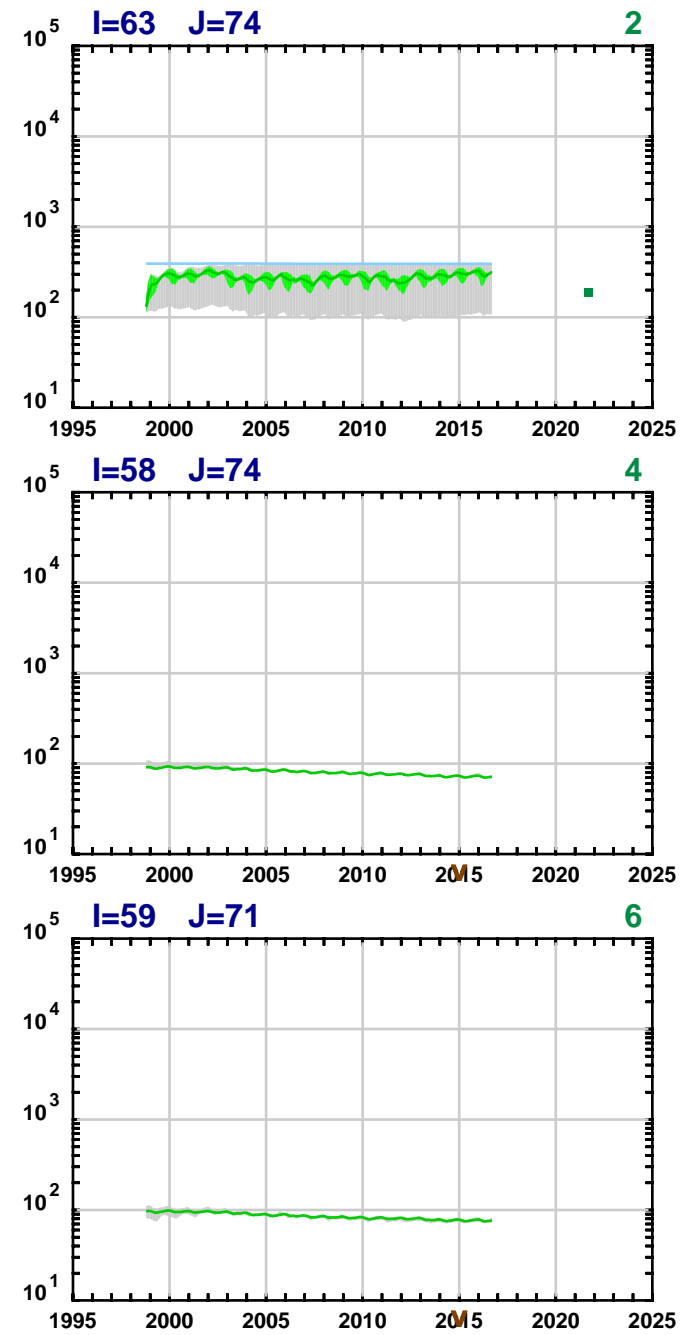
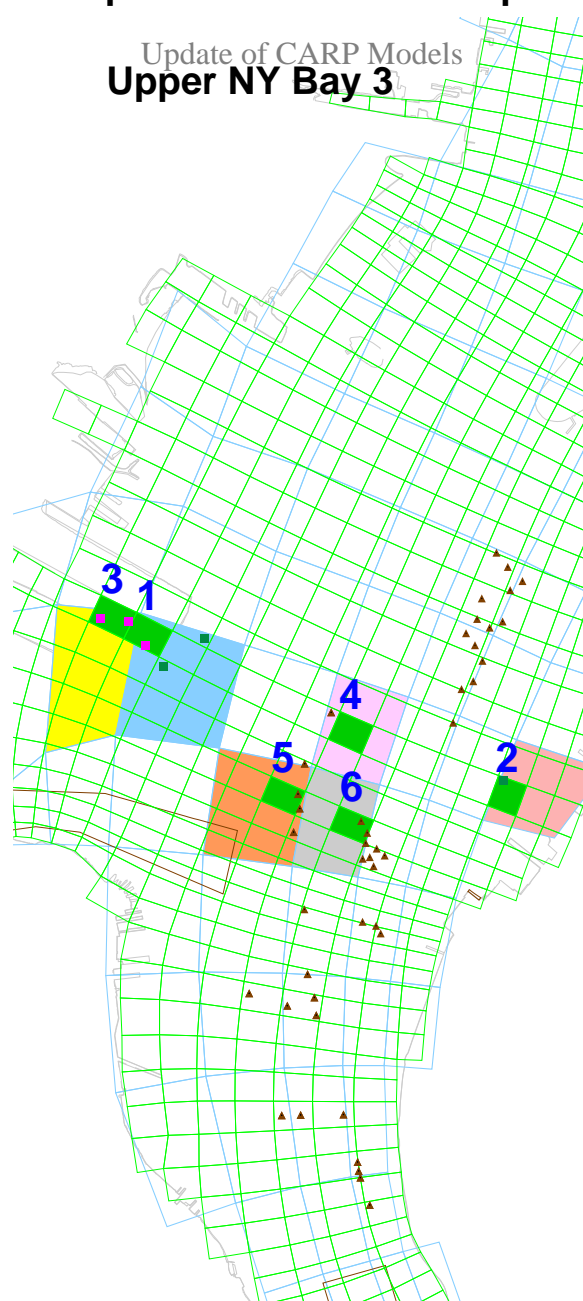
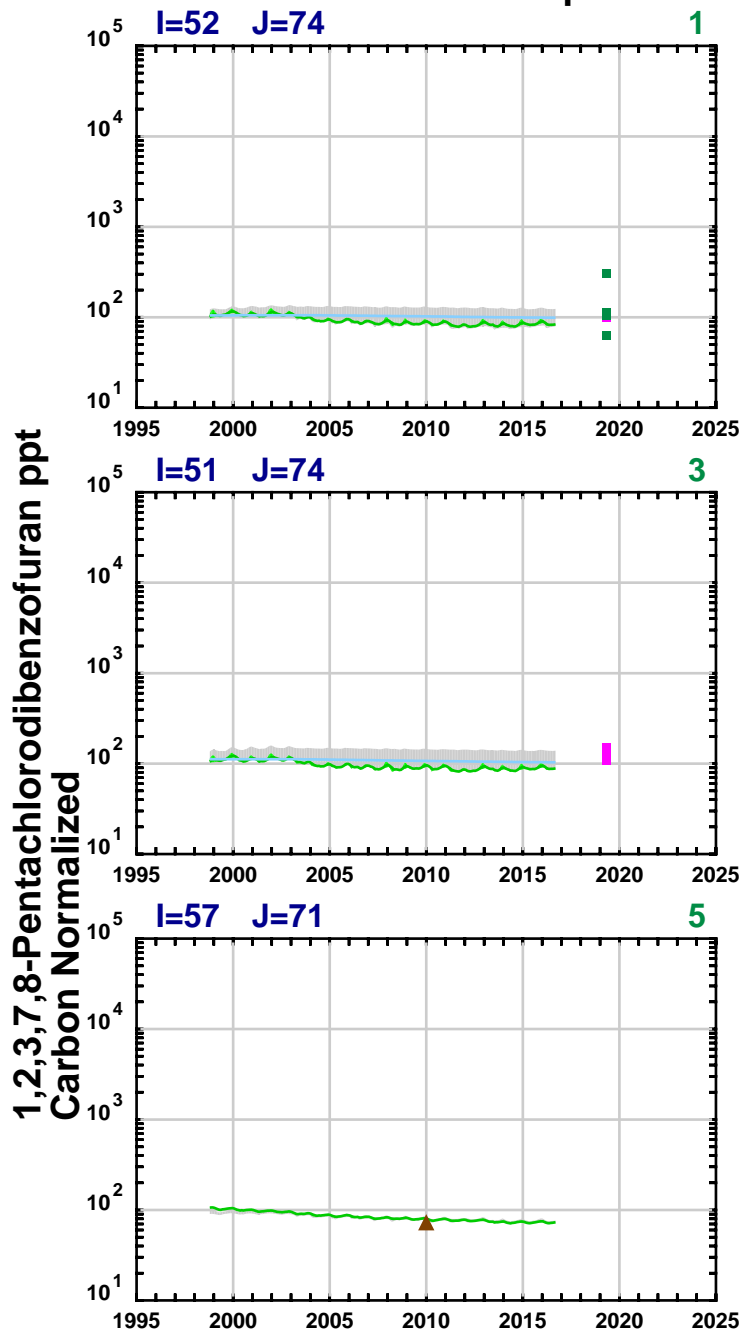
Update of CARP Models  
Upper NY Bay 2

**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



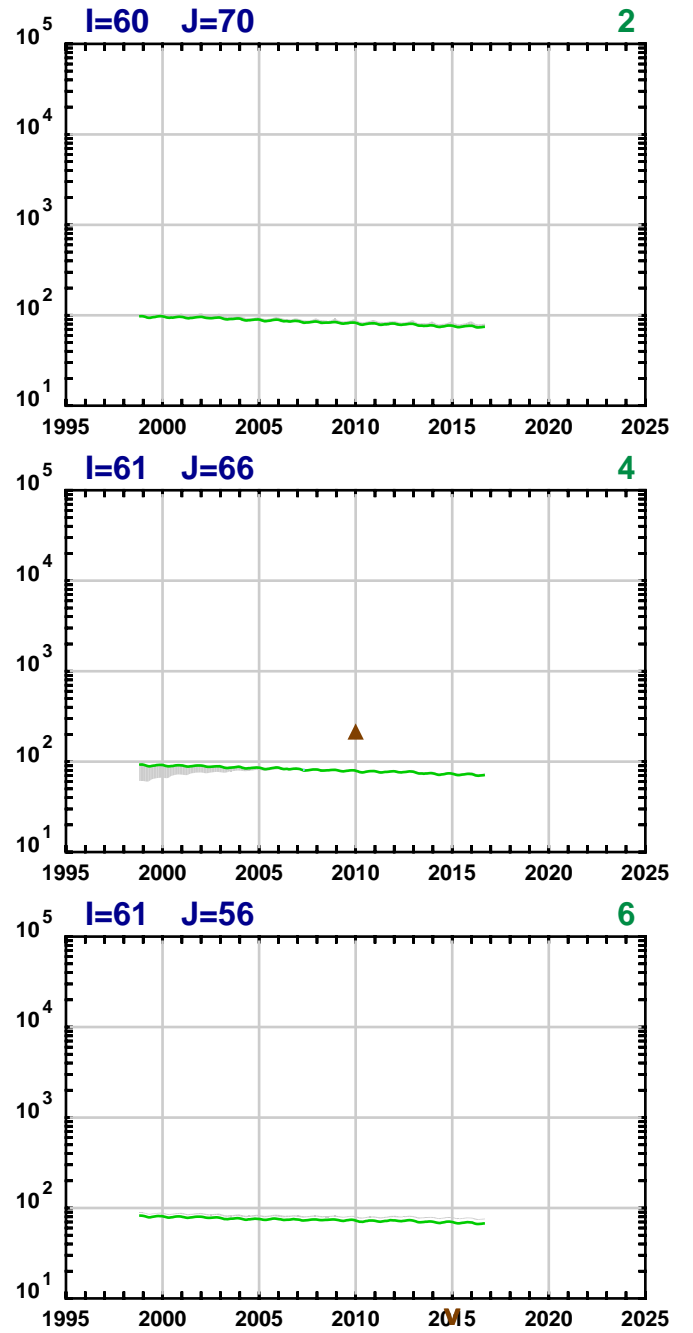
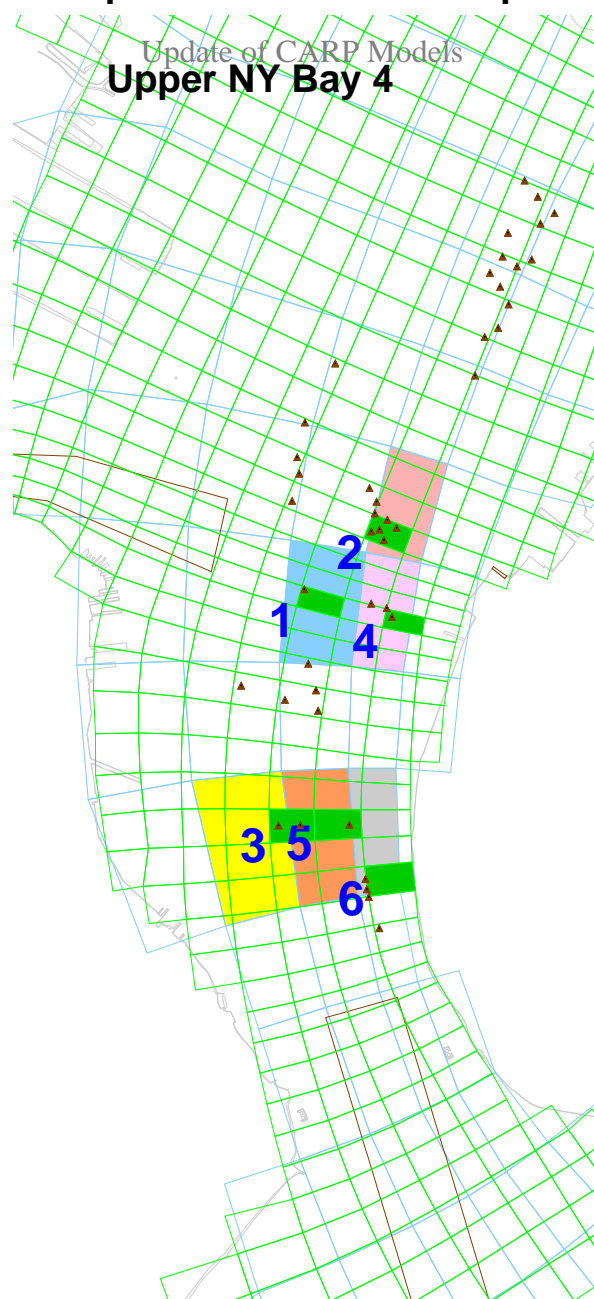
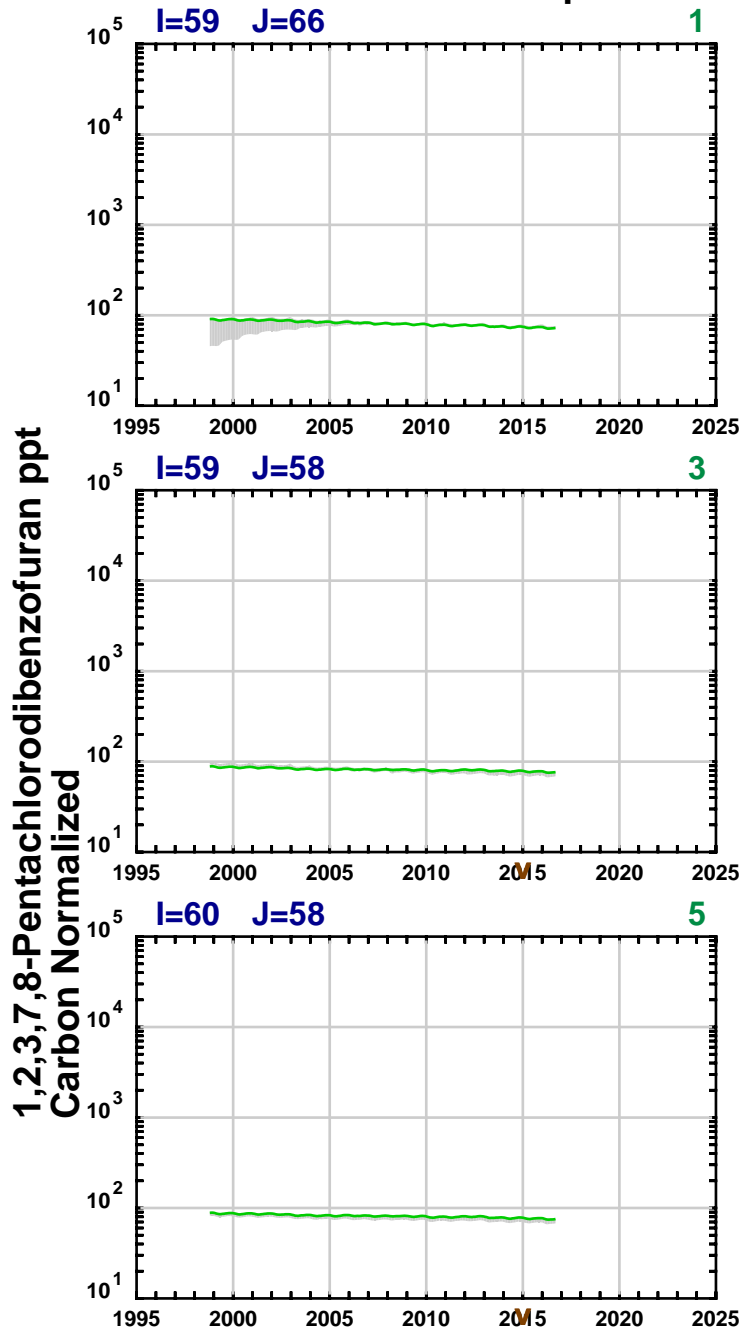
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



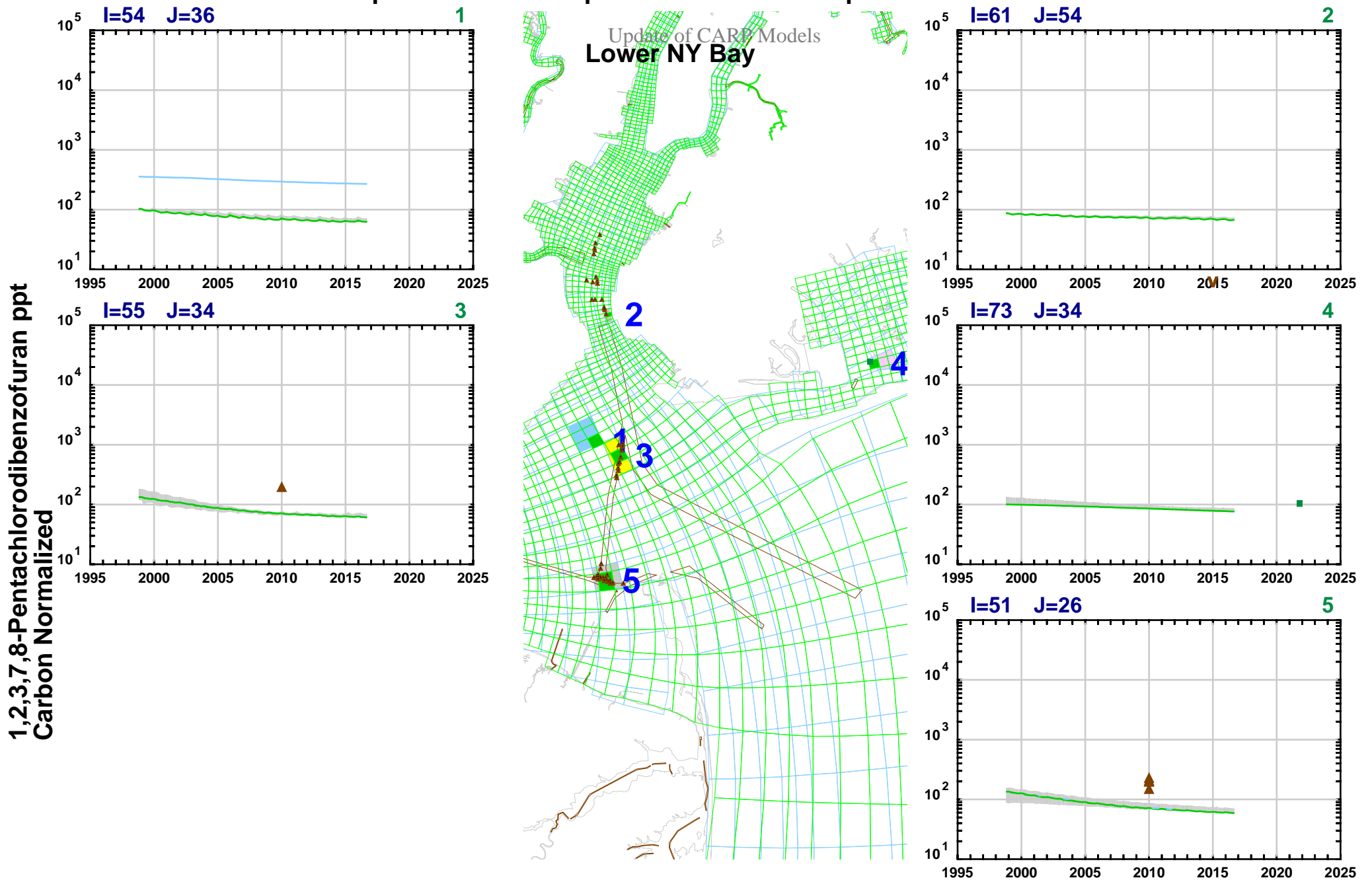
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



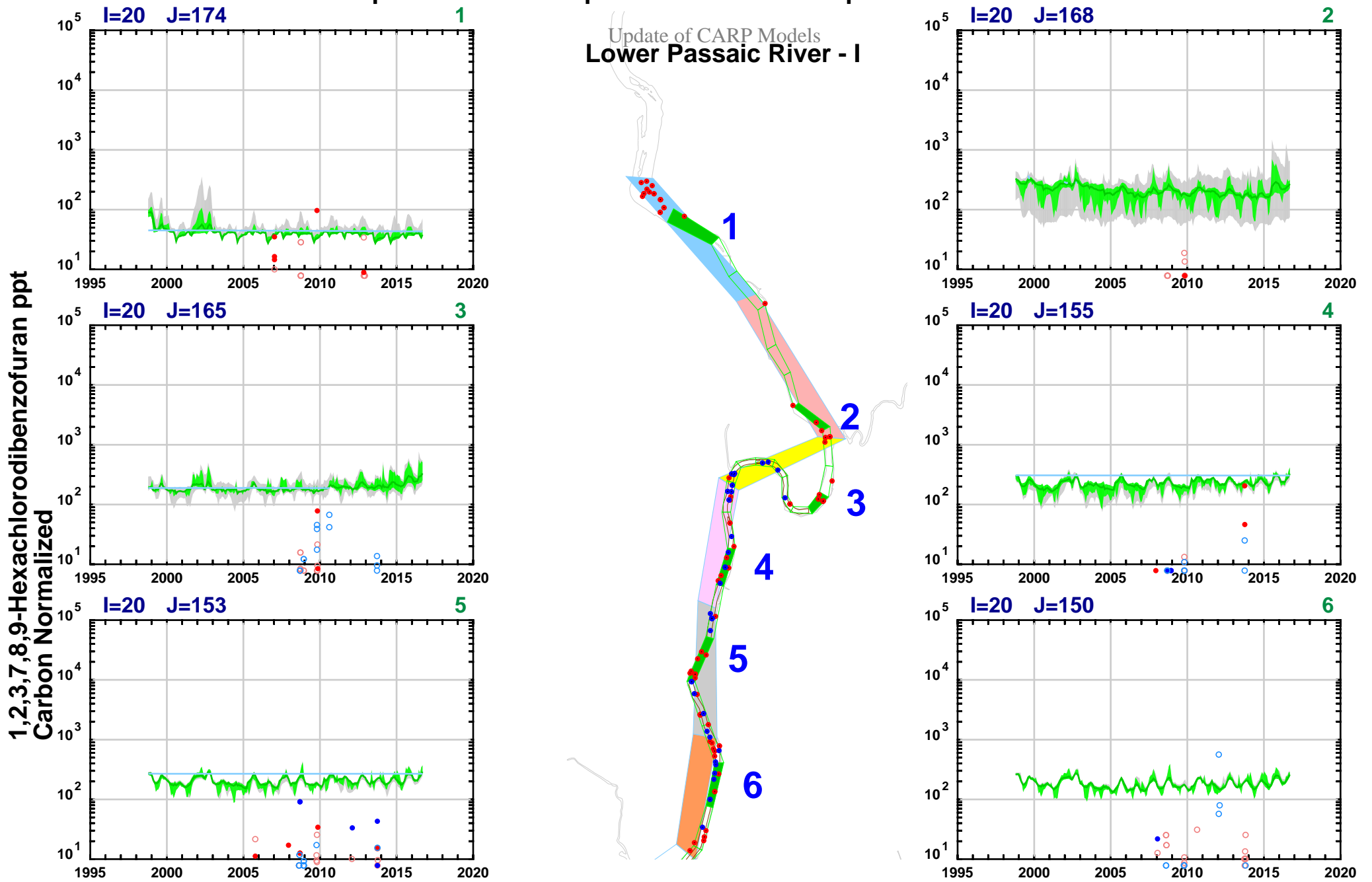
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Lower Passaic River - I

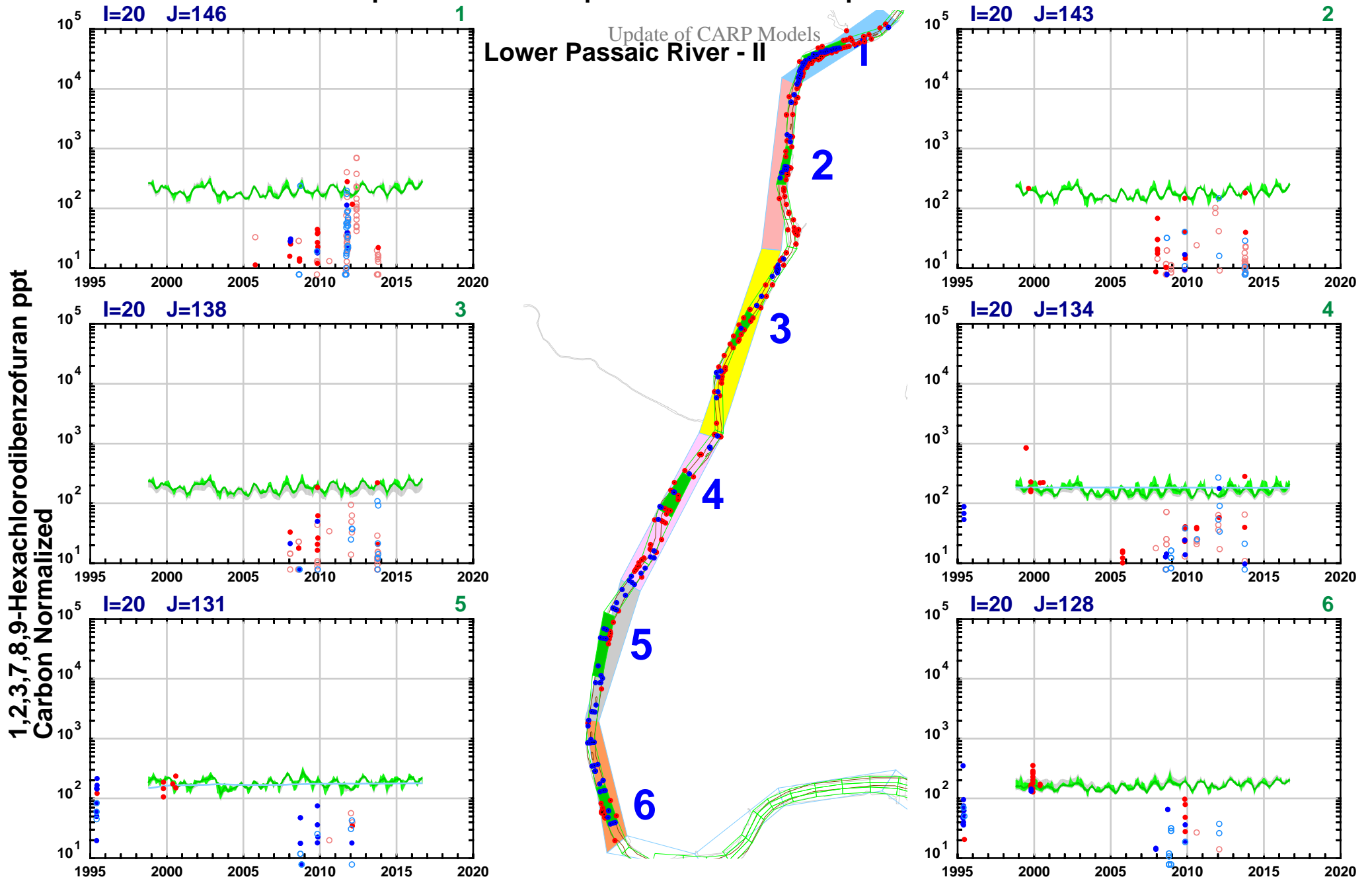


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

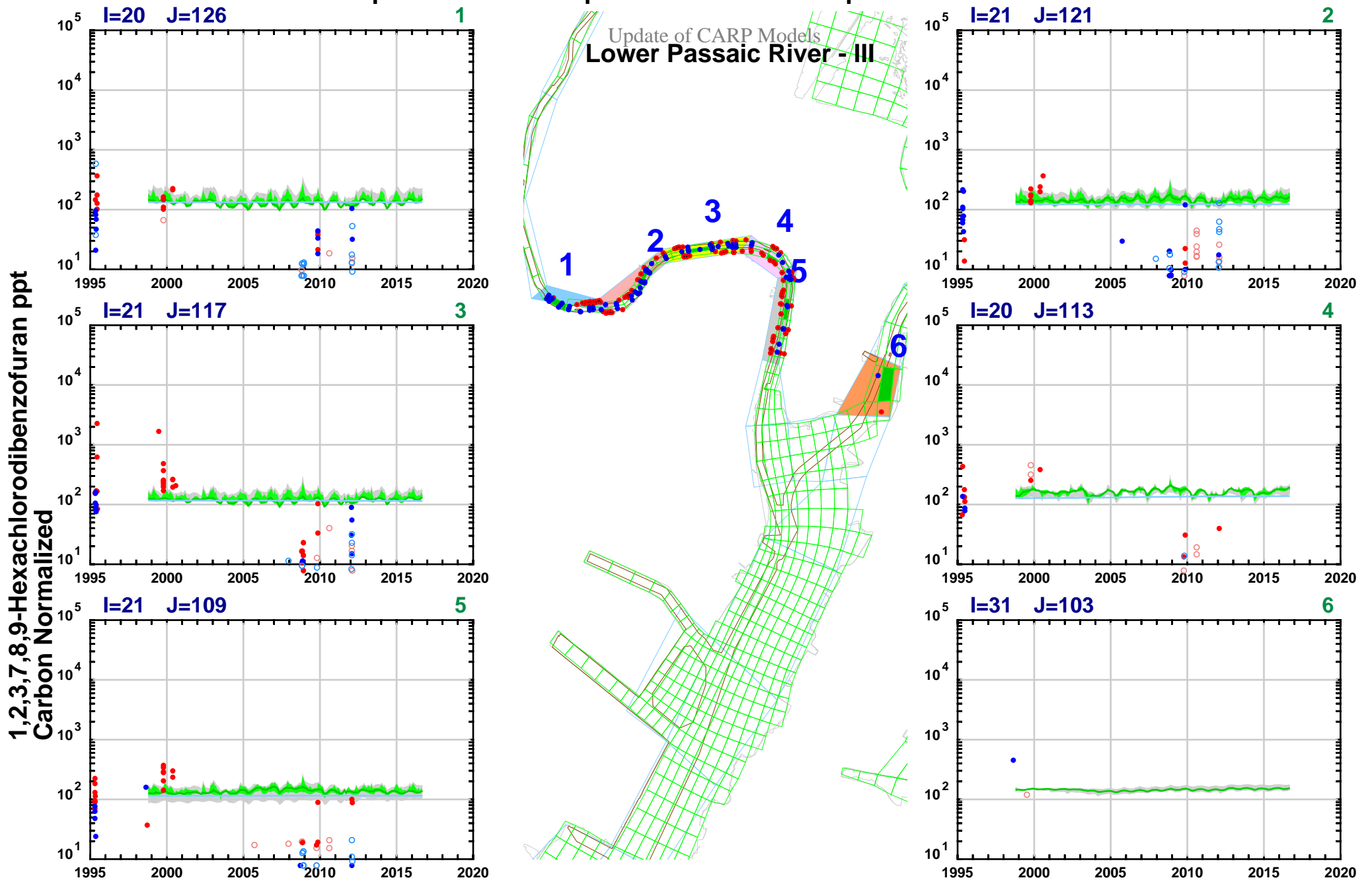


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

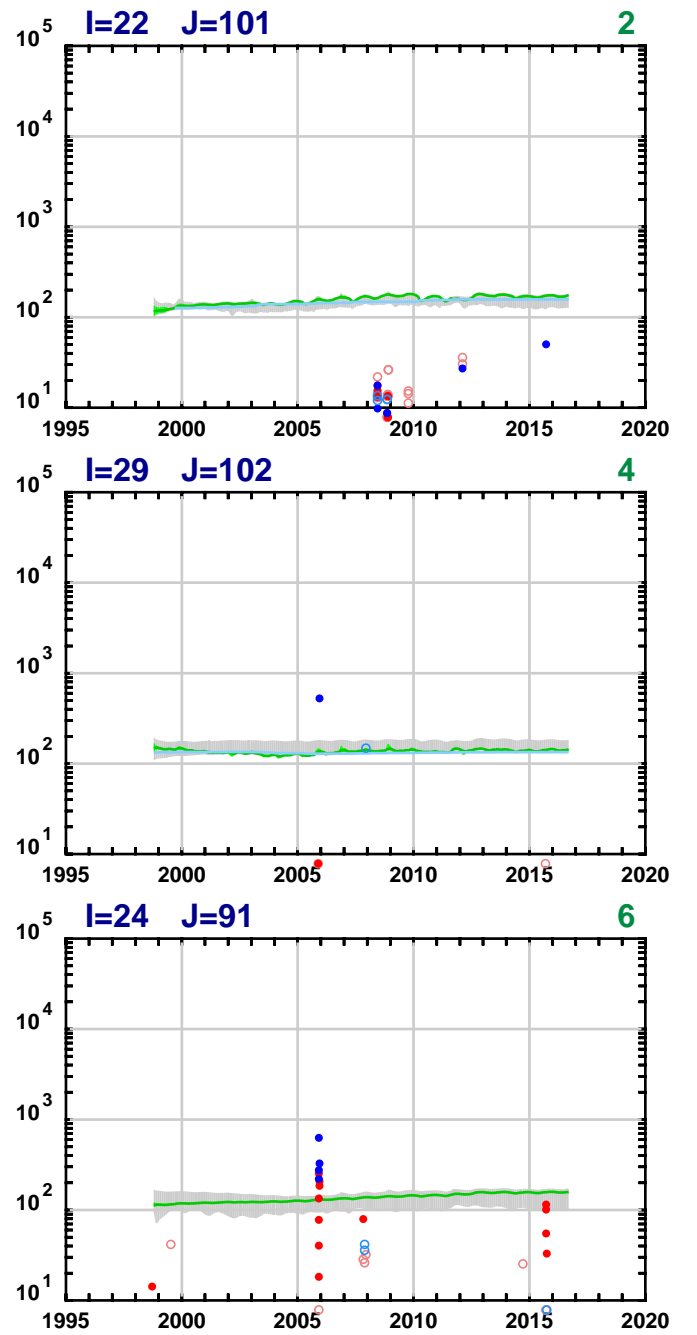
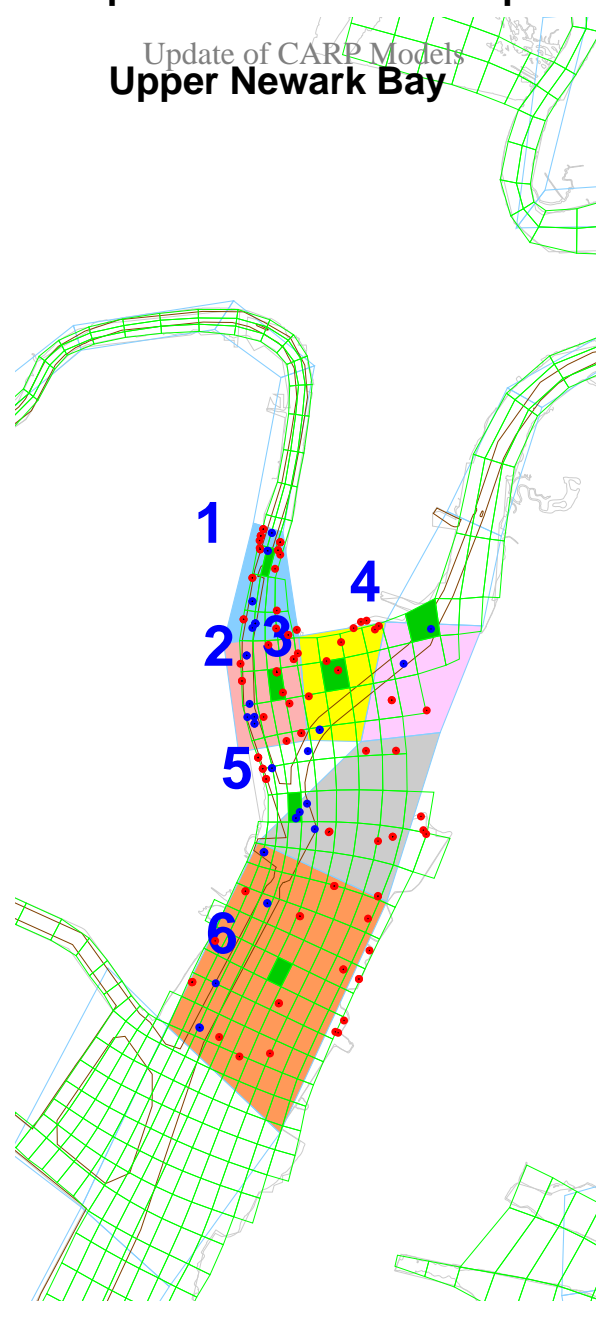
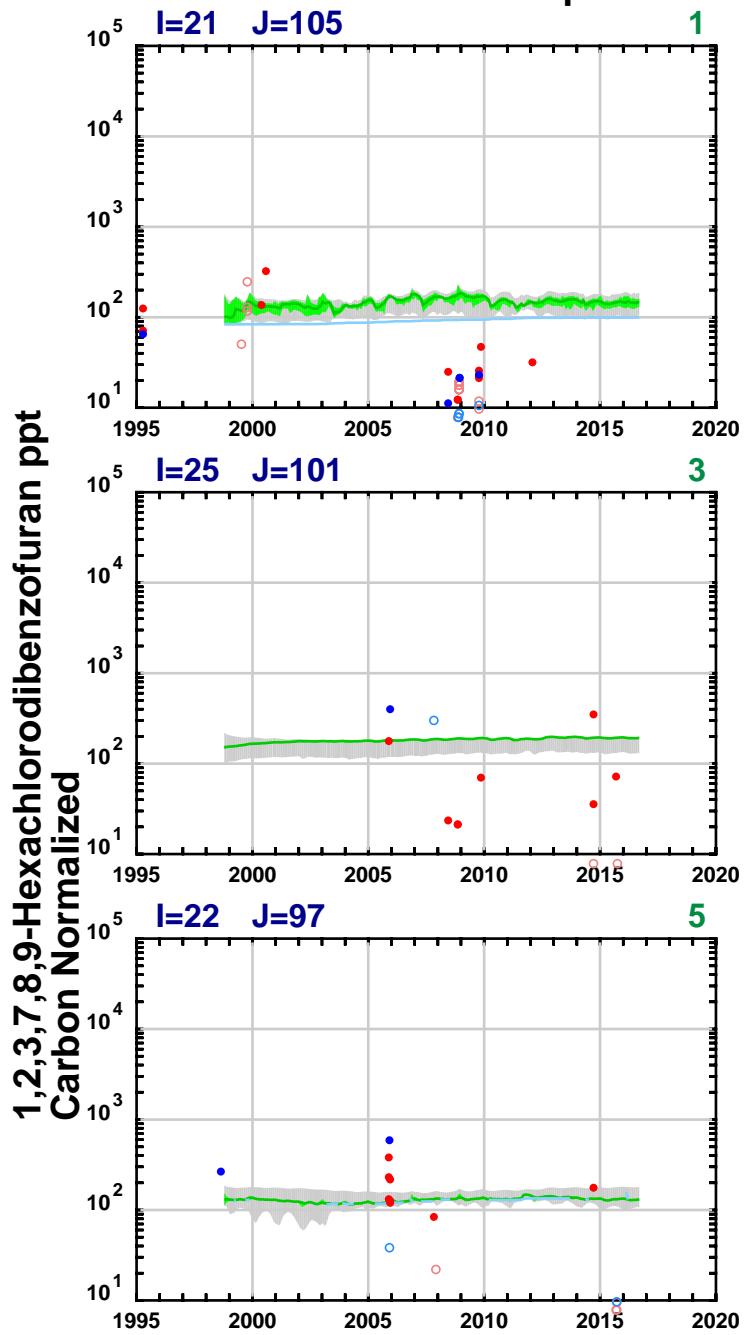


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

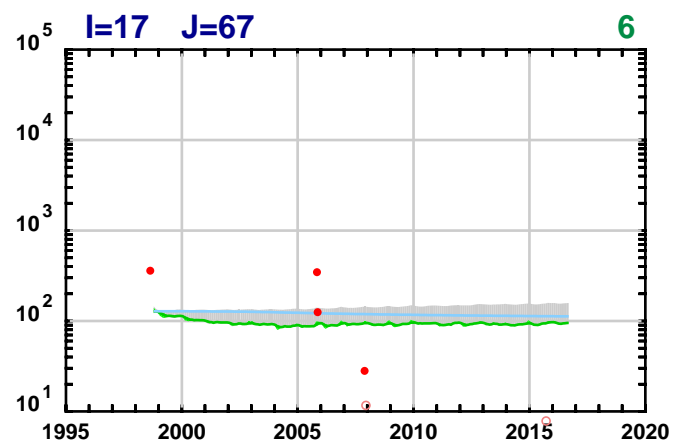
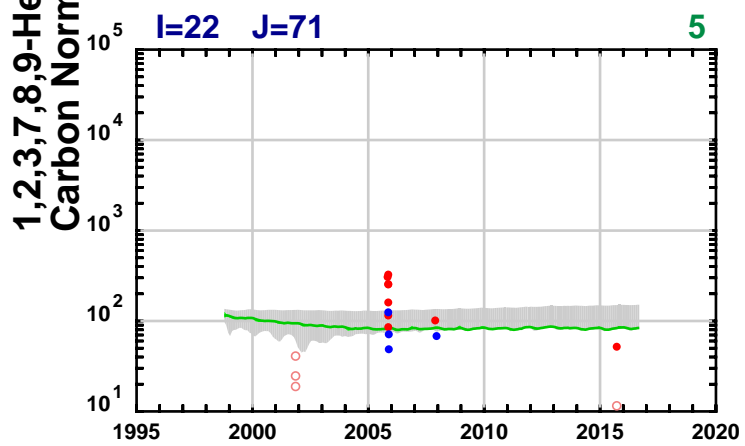
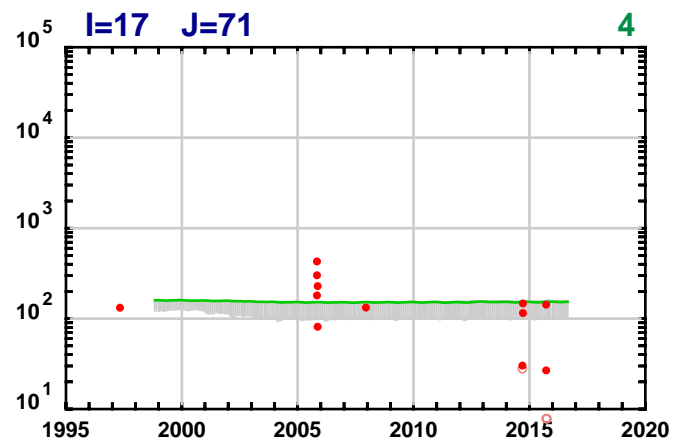
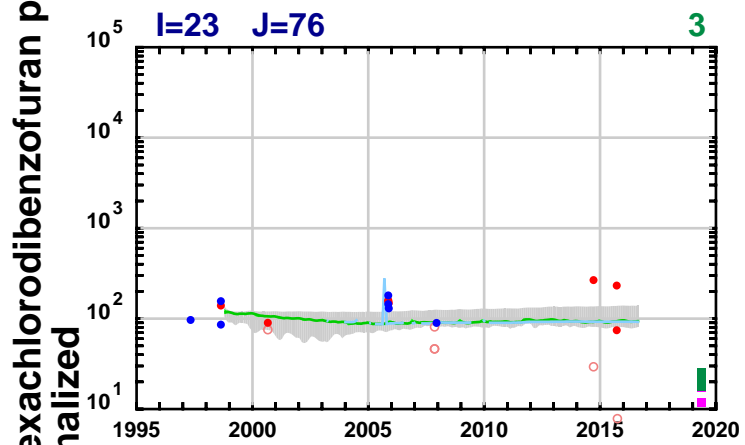
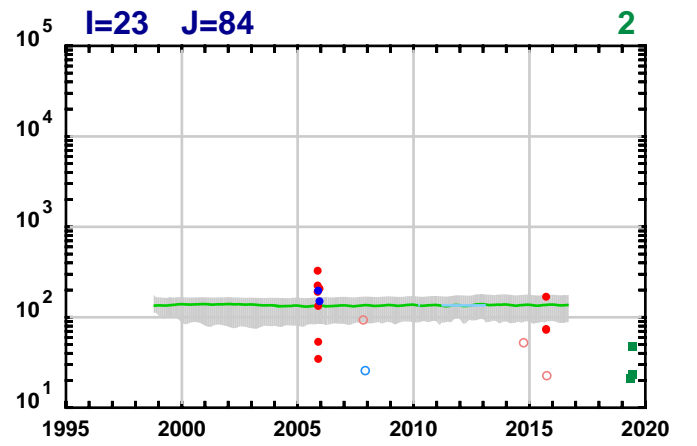
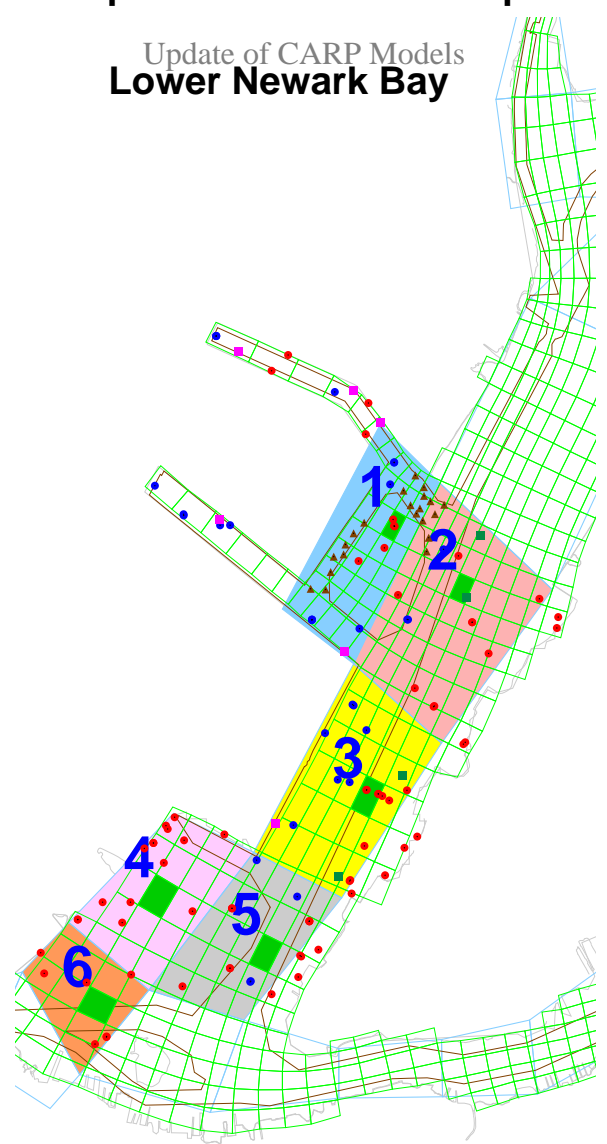
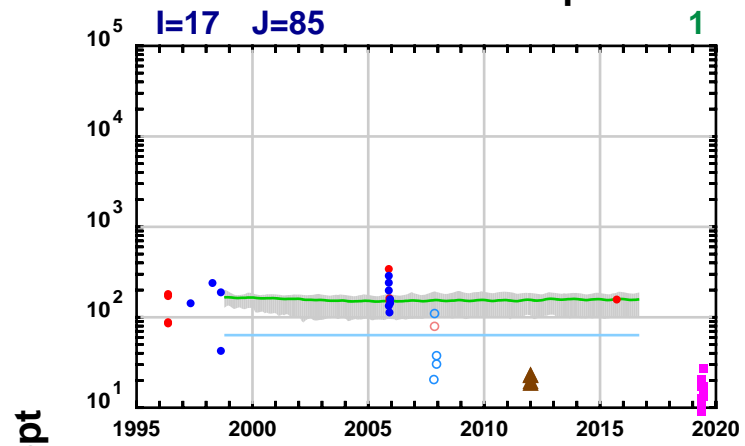


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



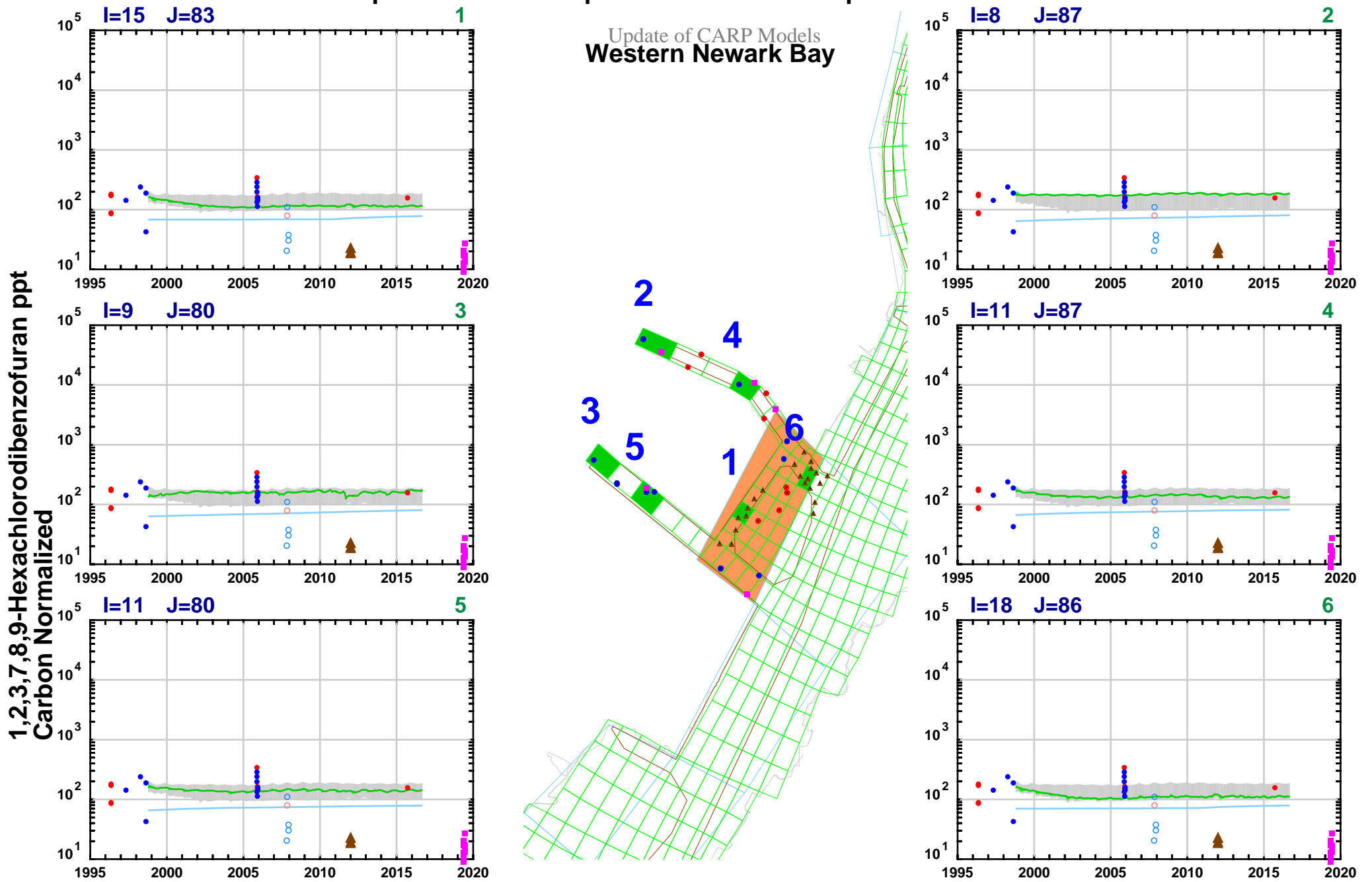
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay



RUN18\_S4\_R2

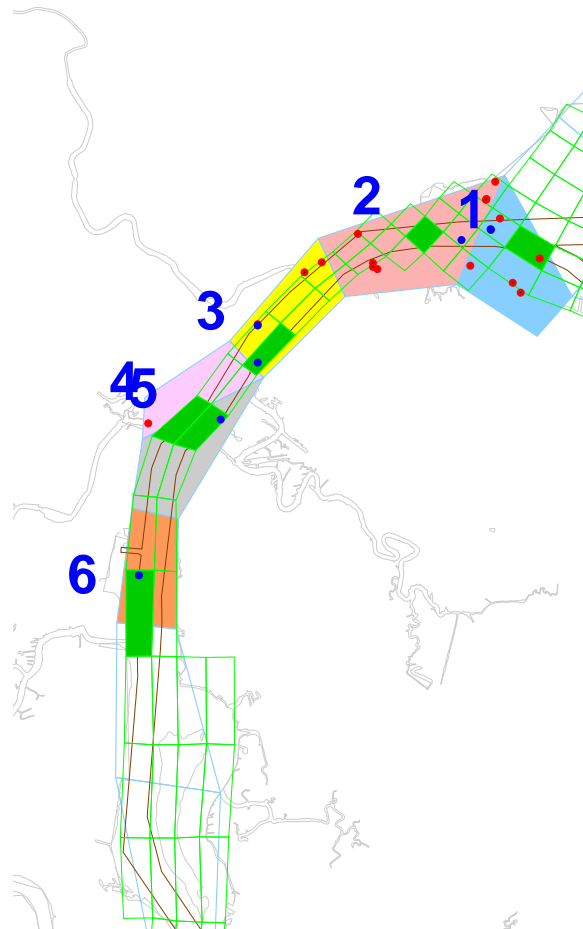
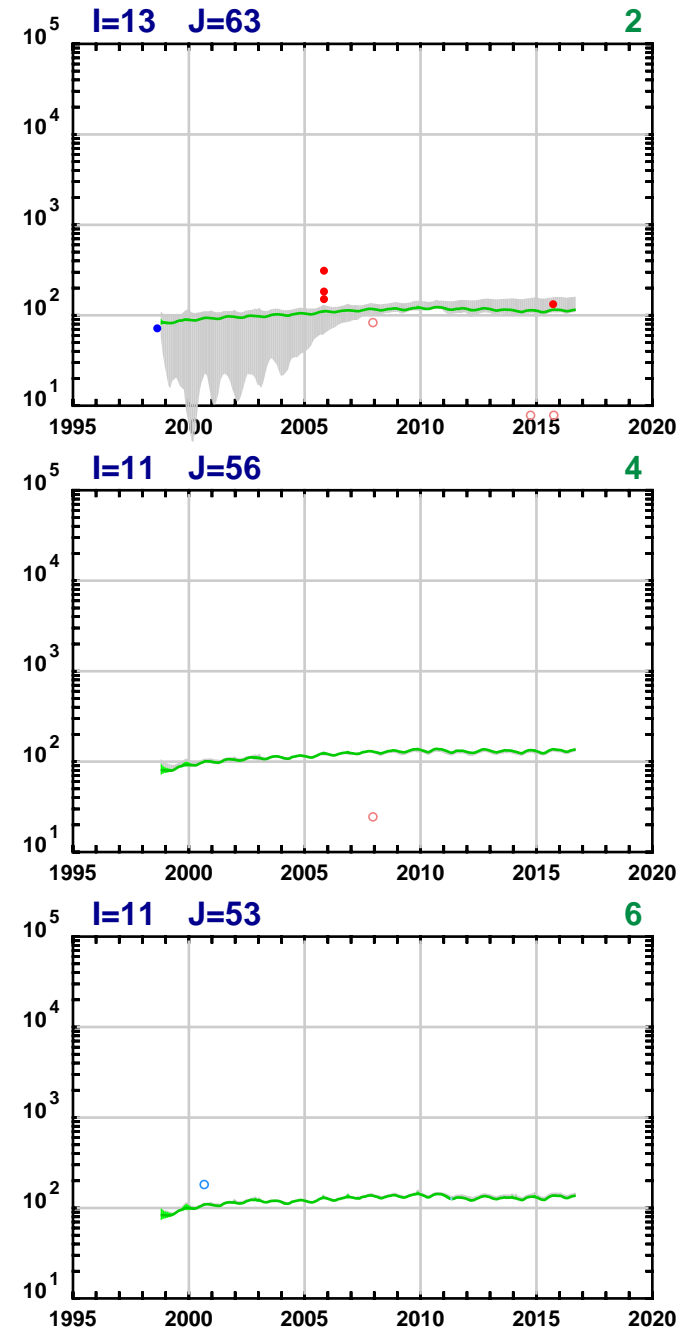
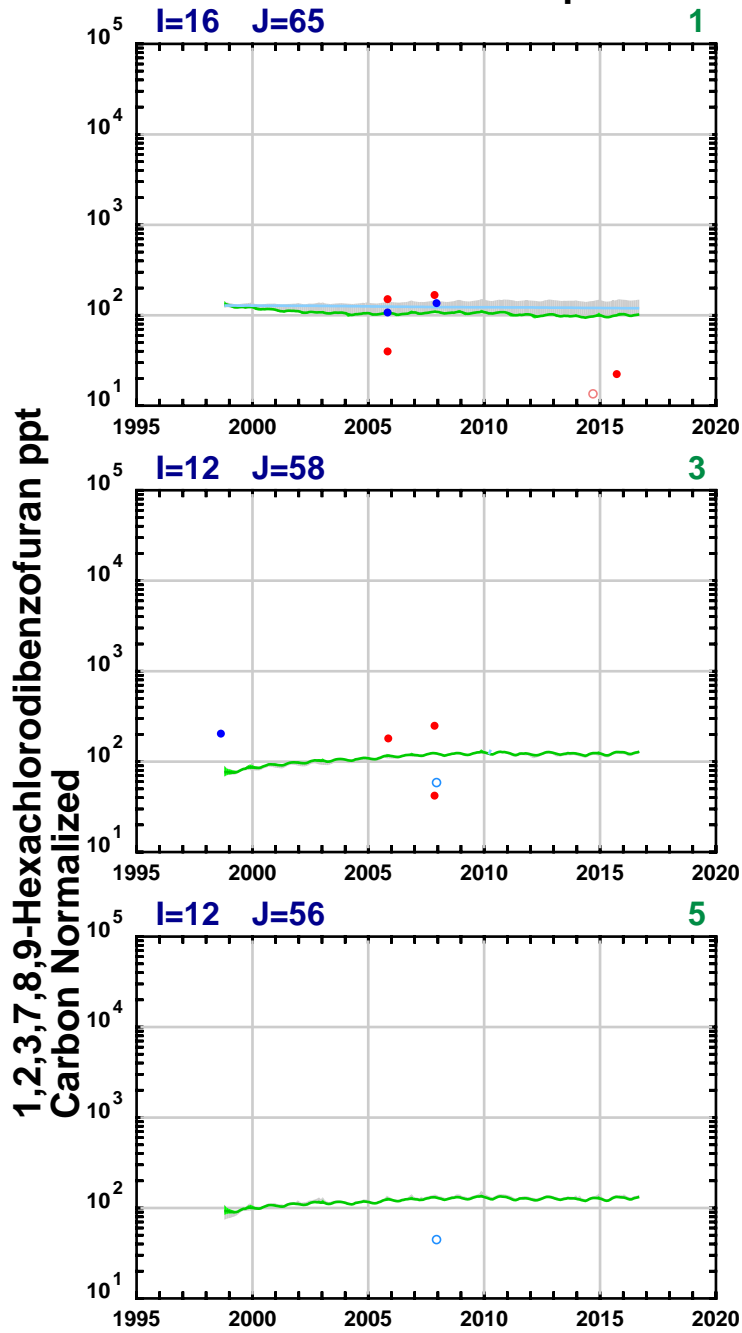
Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

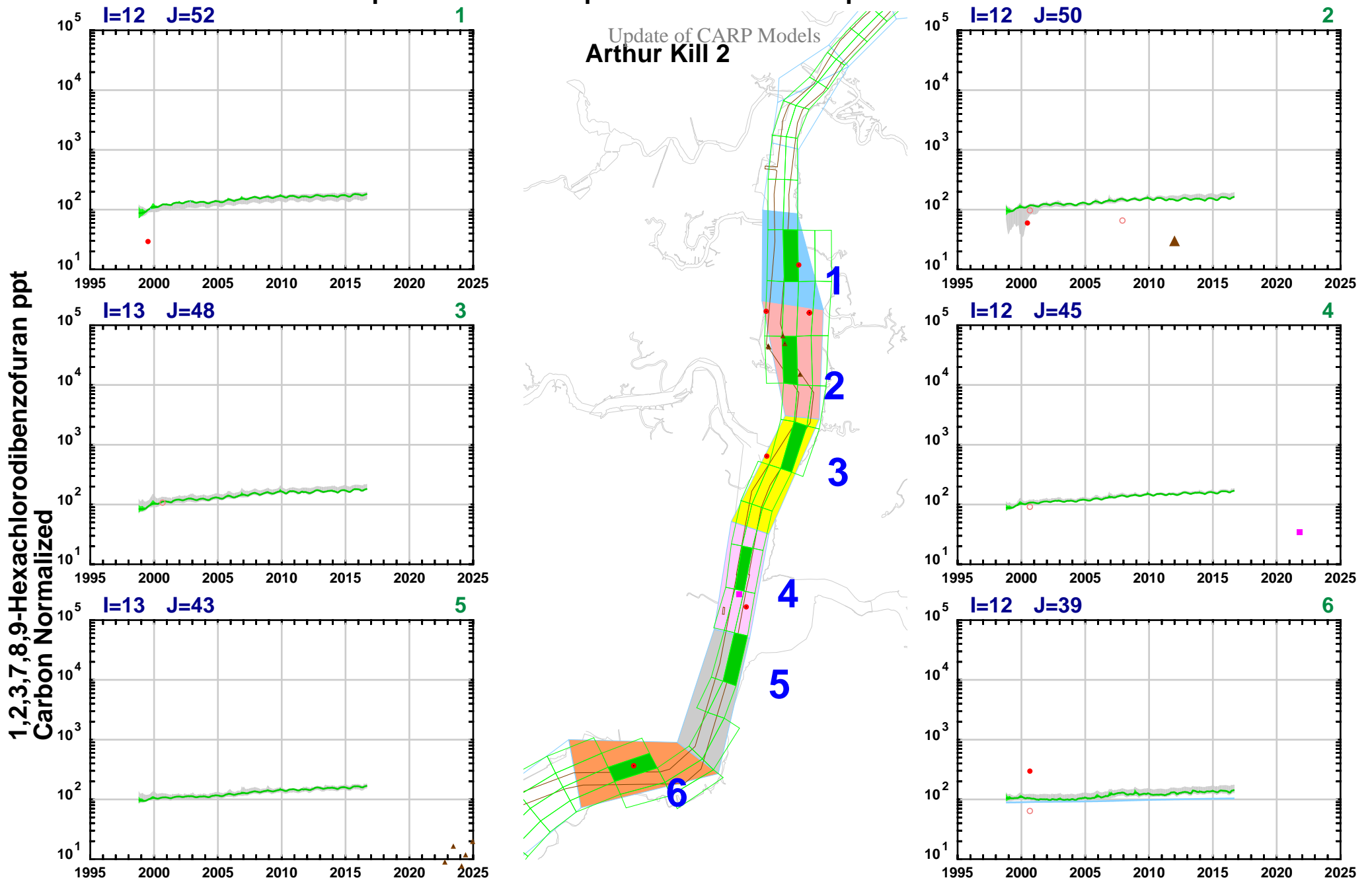


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

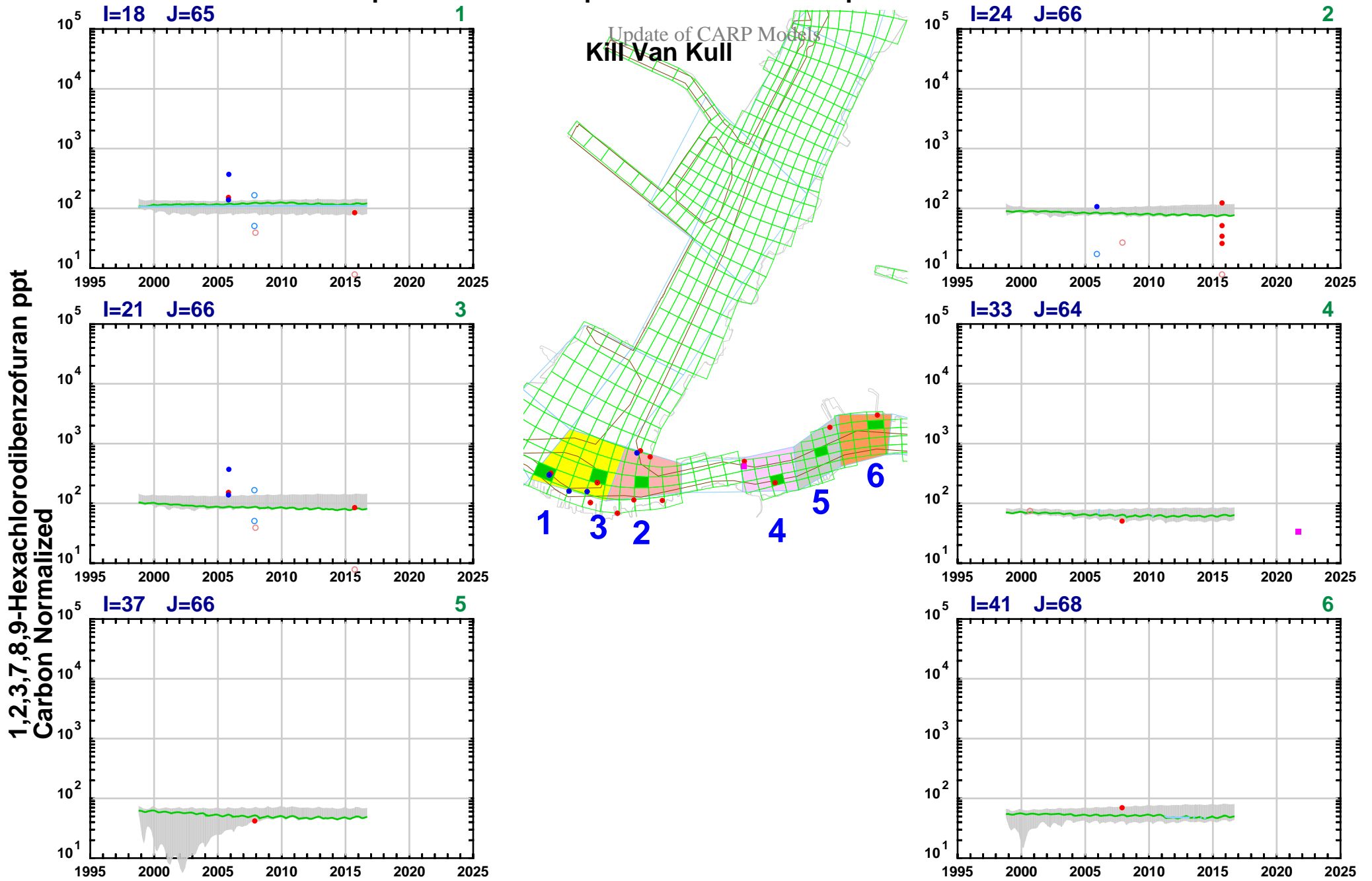


**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data    ● Off-channel data    ▲ Dredge data**  
**■ CARP2 In-channel    ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

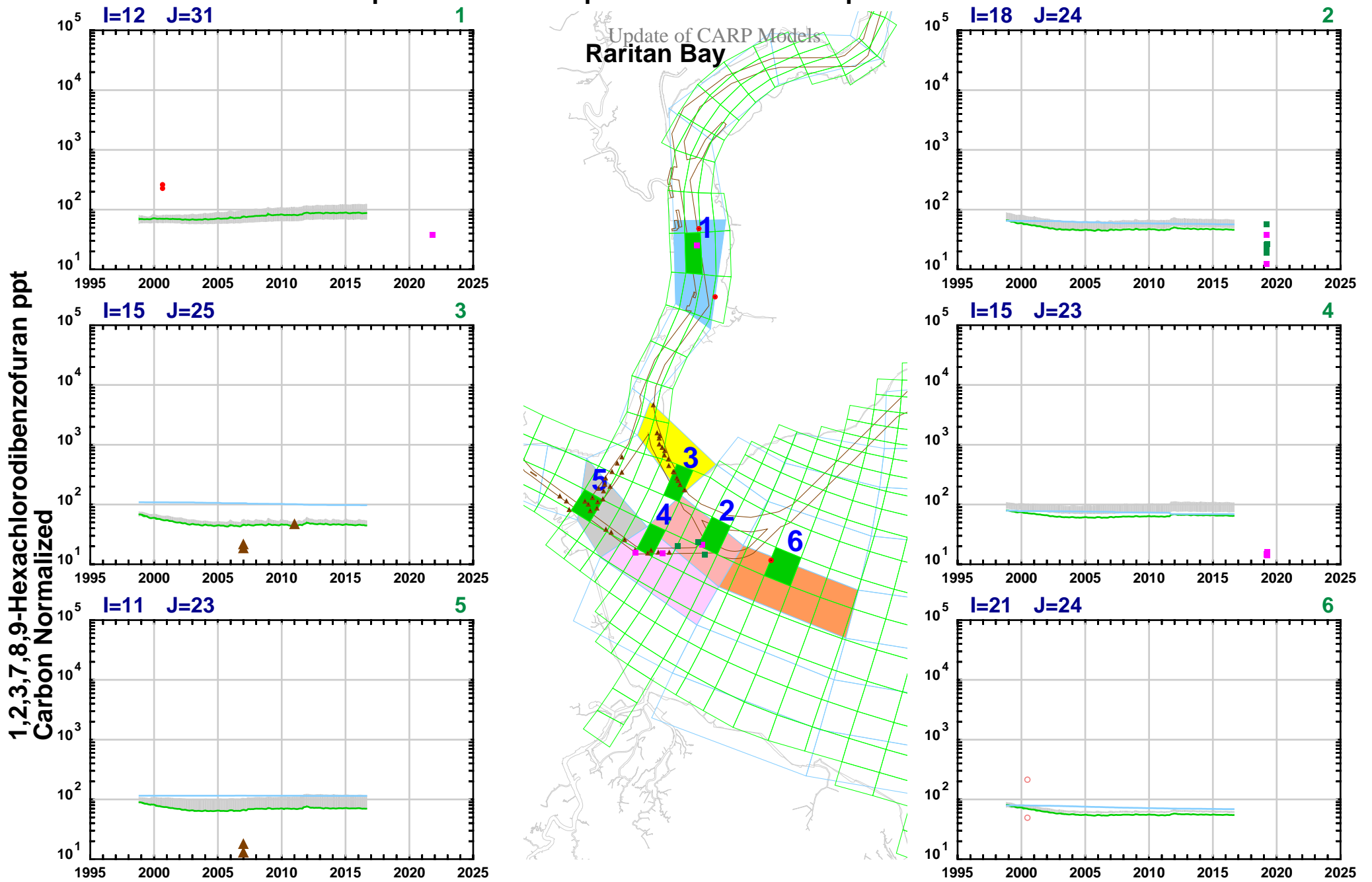


**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

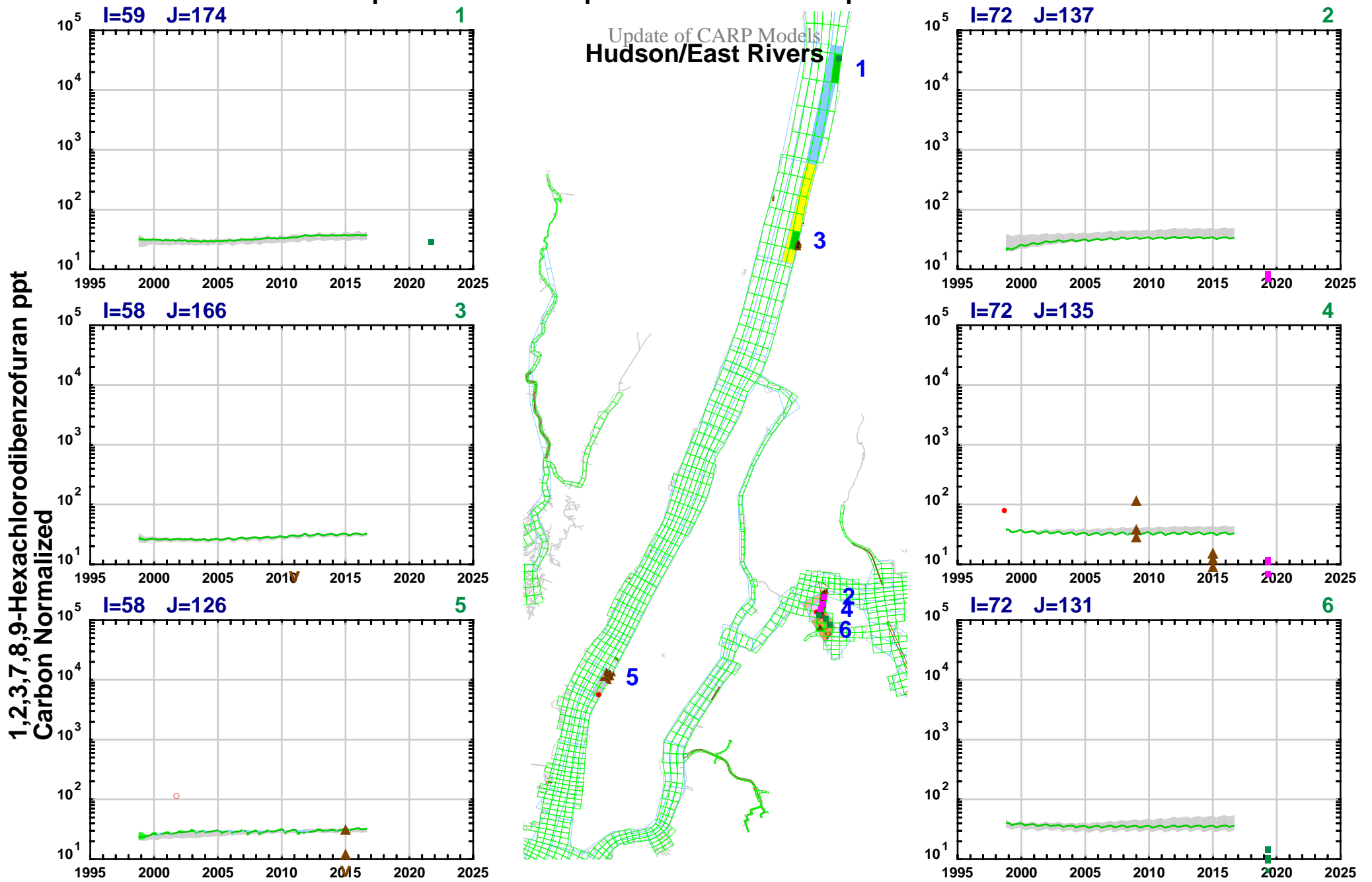


**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

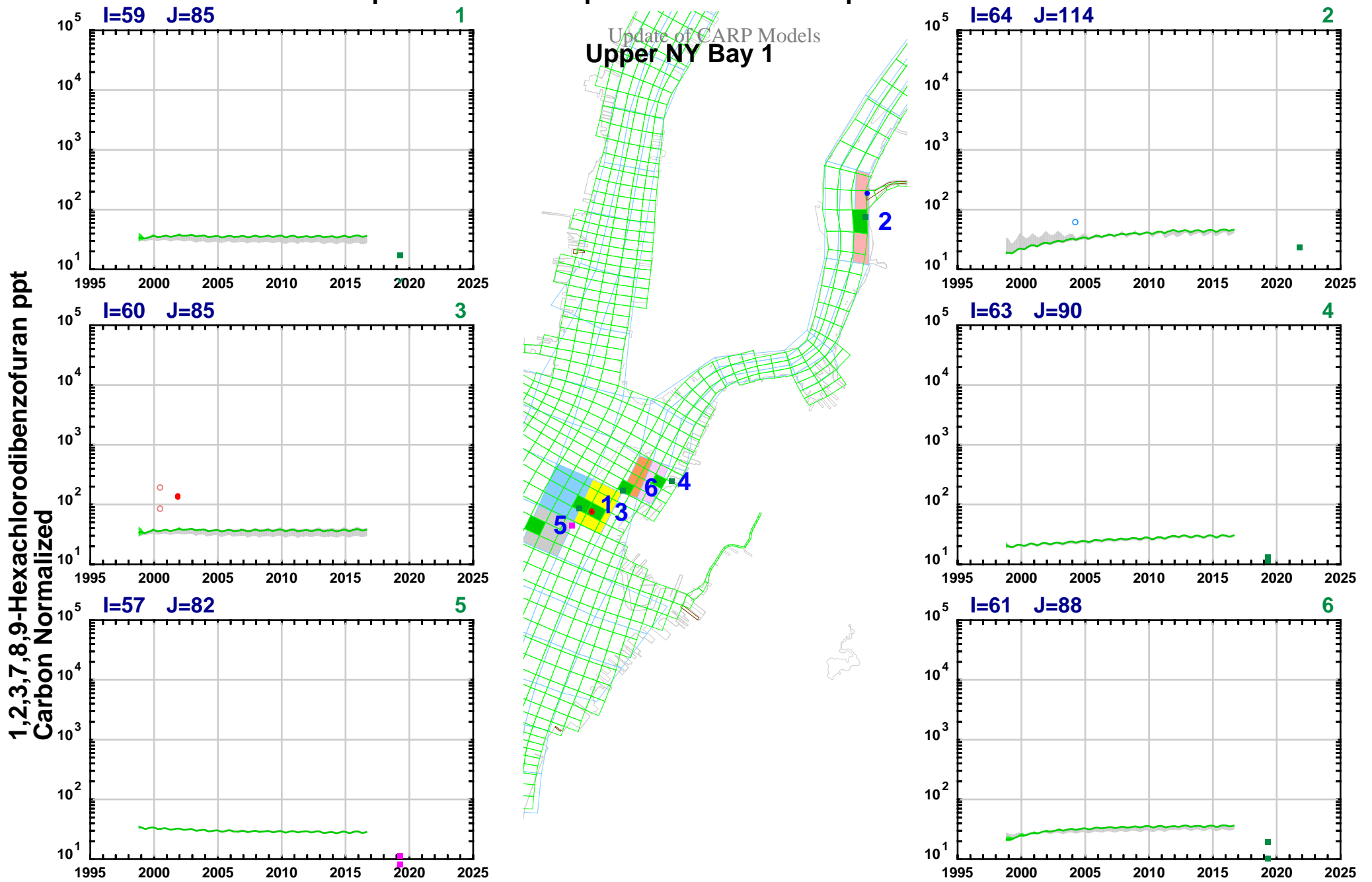


**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data ● Off-channel data ▲ Dredge data**  
**■ CARP2 In-channel ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

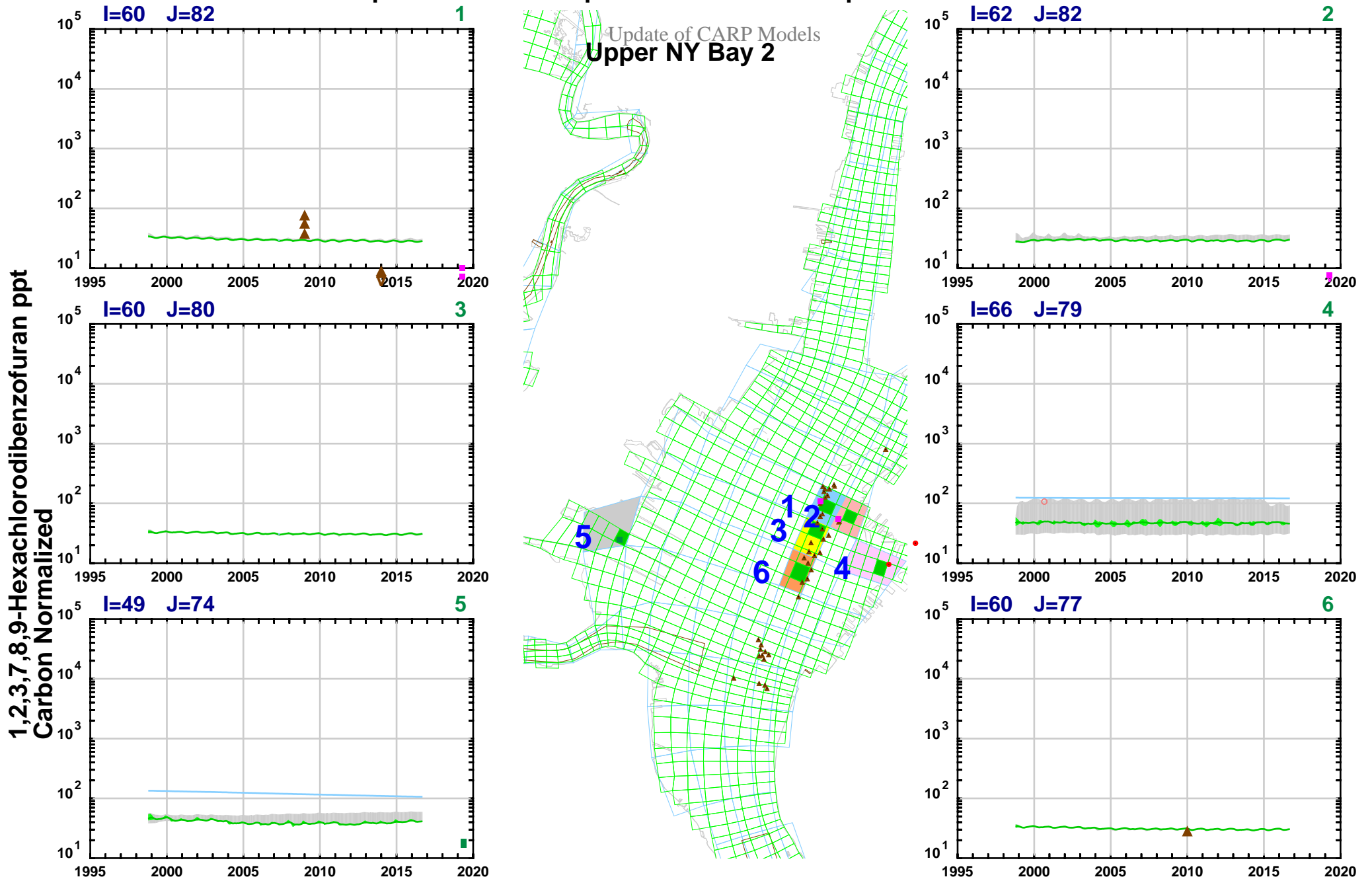


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



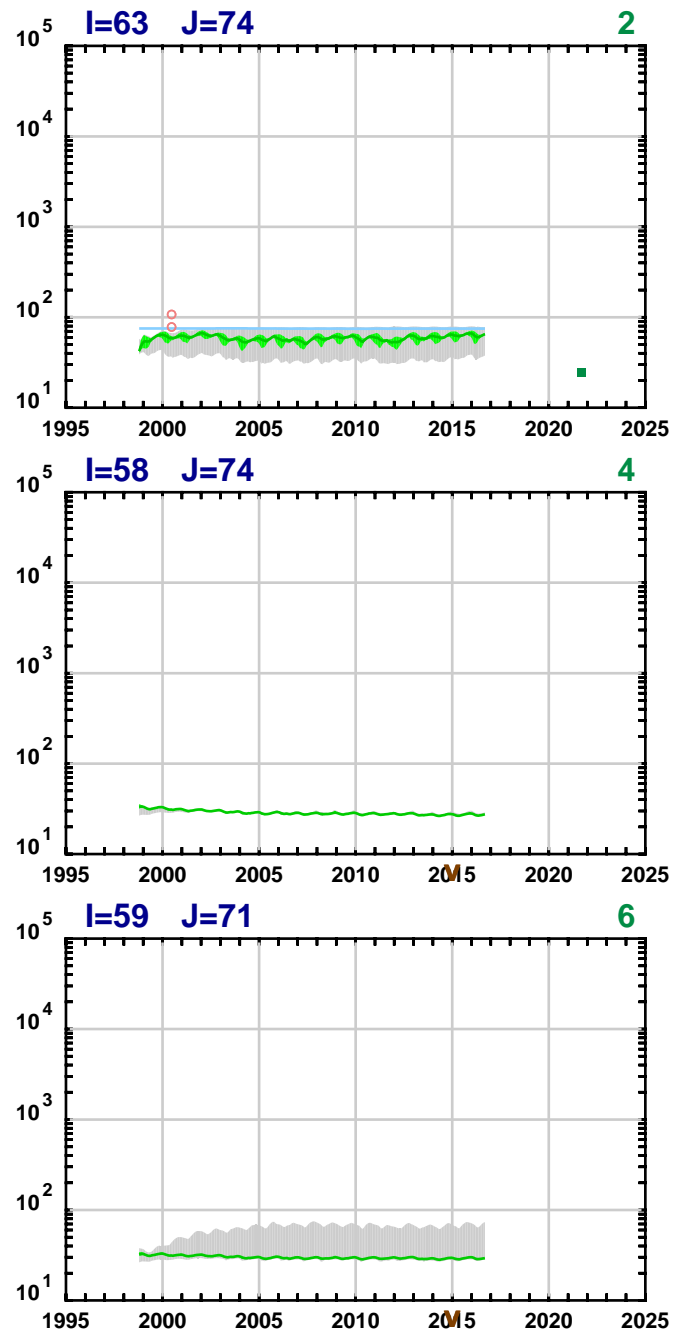
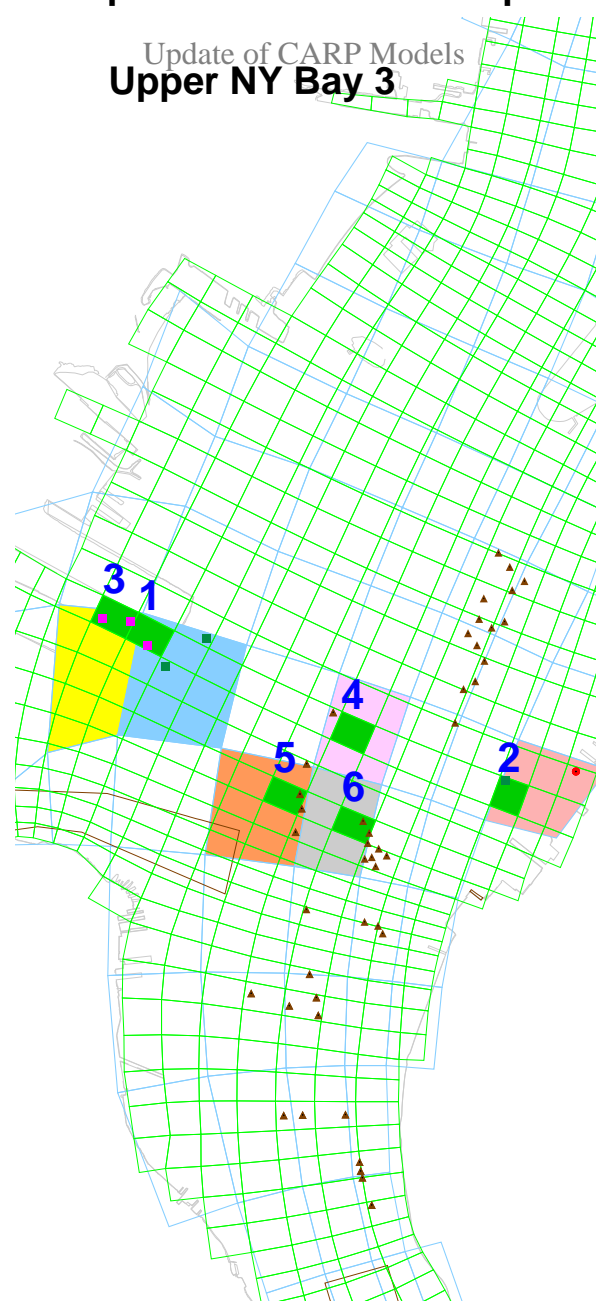
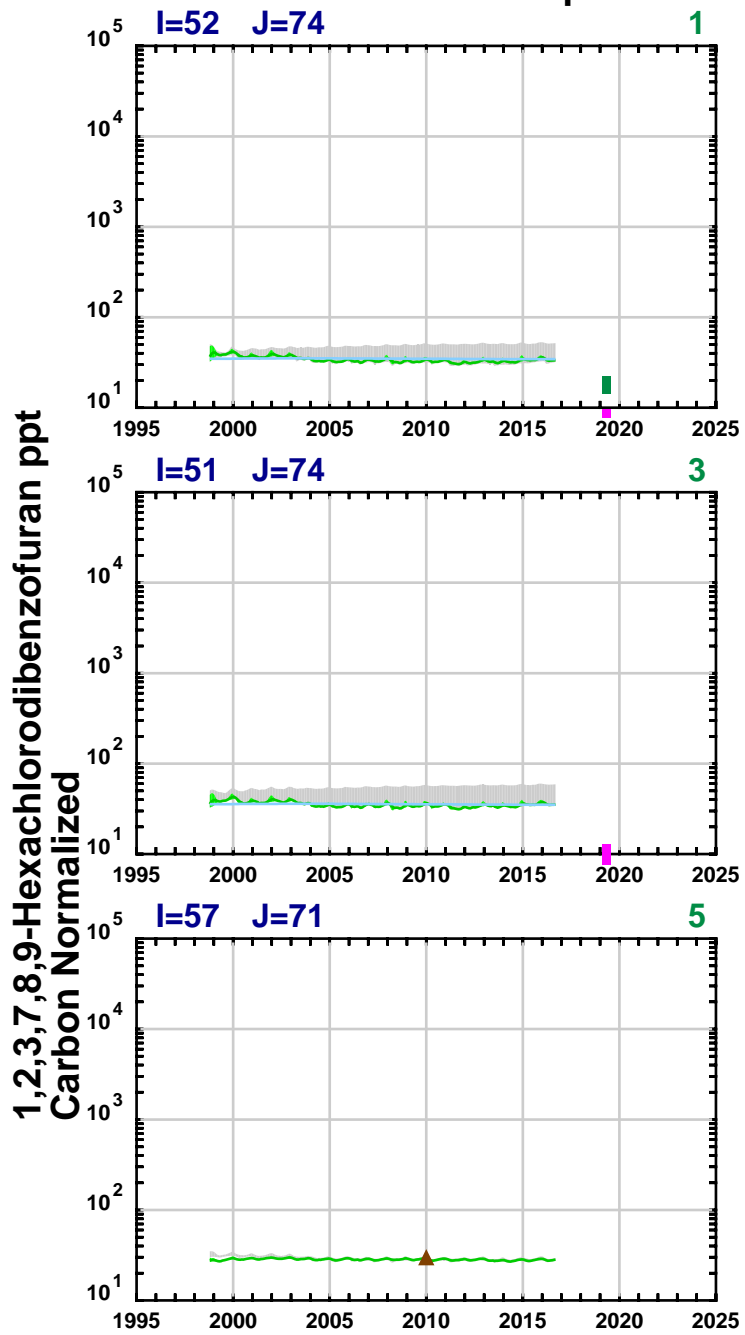
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

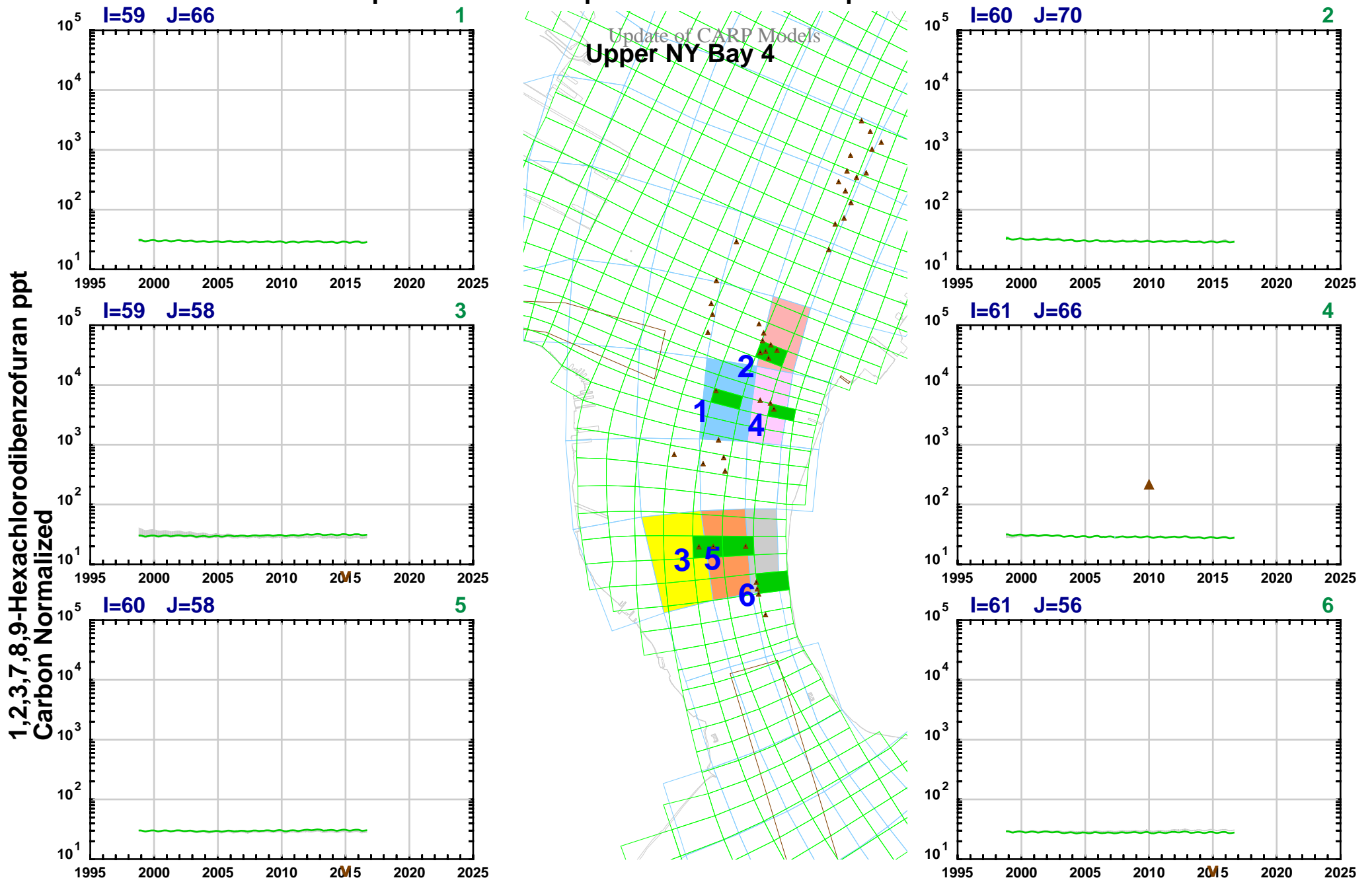


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

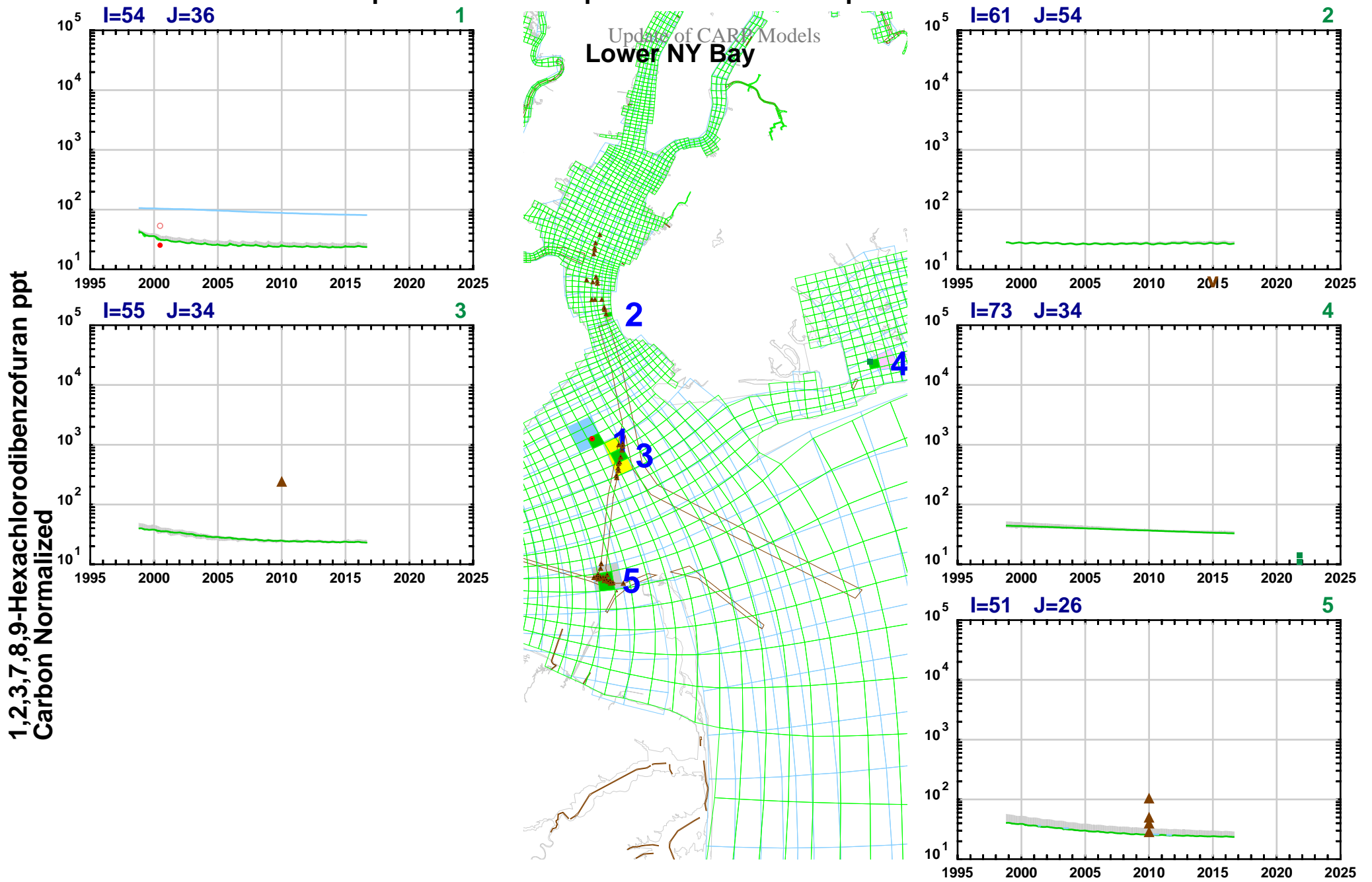


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



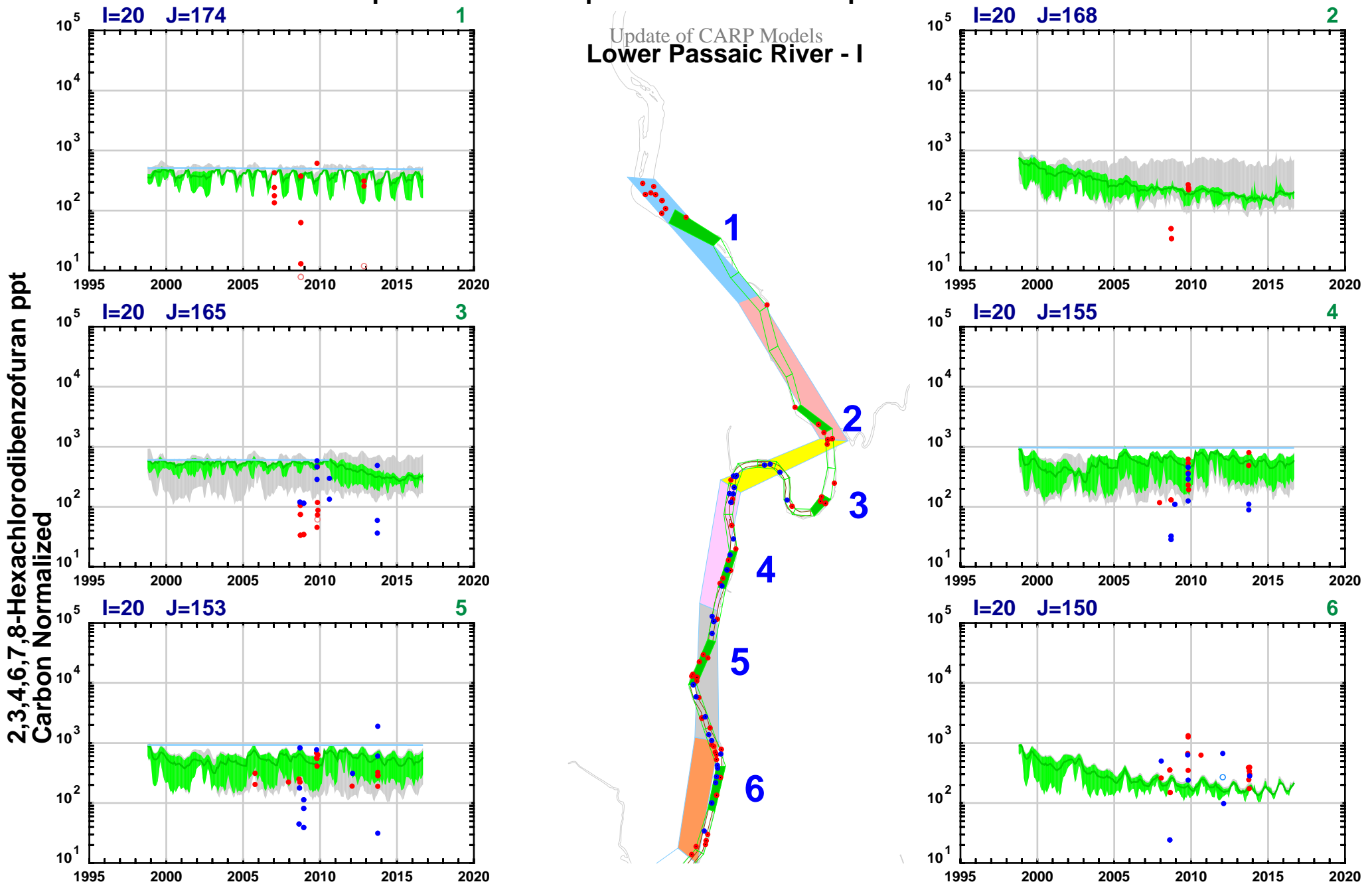
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Lower Passaic River - I

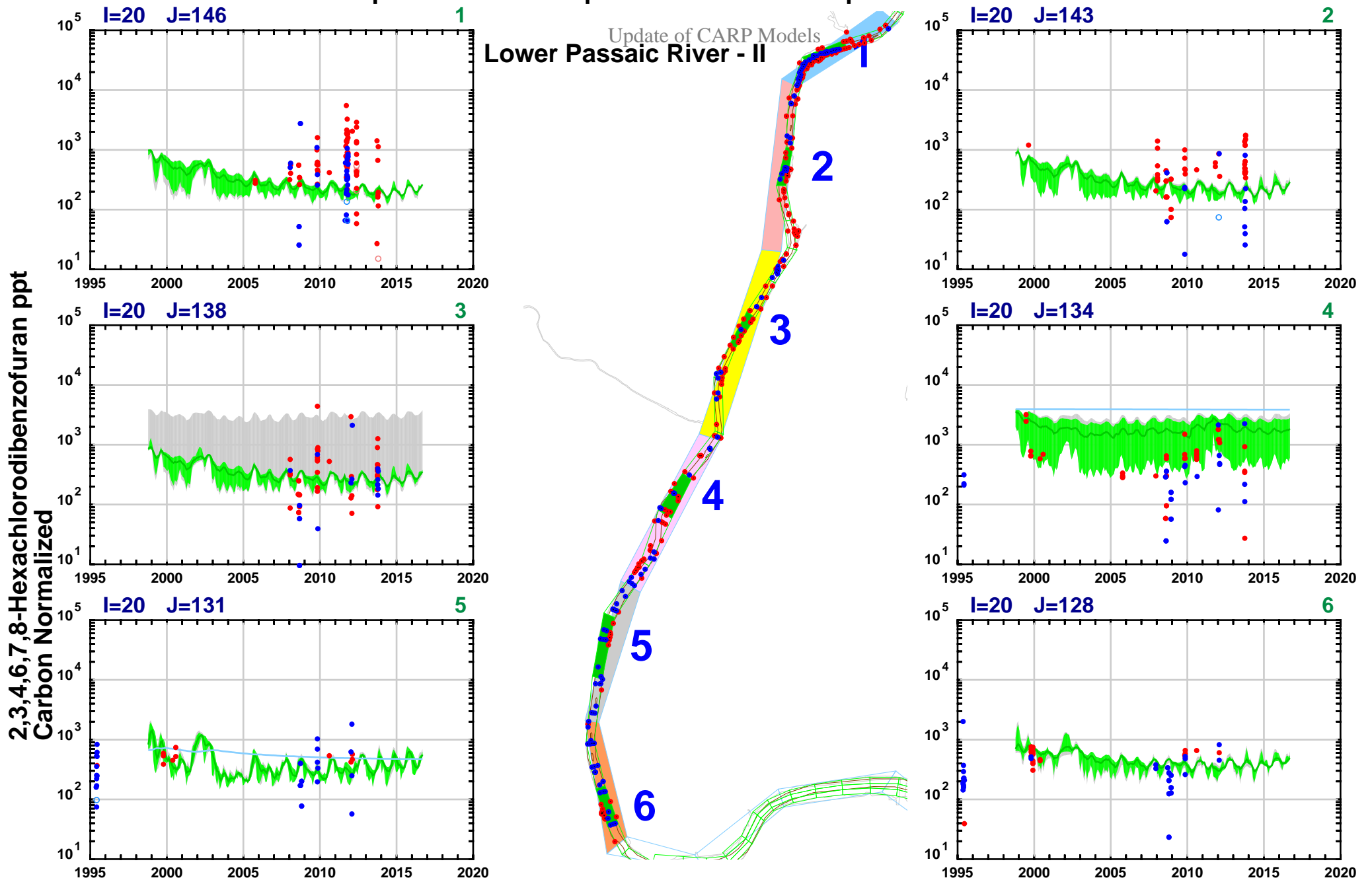


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

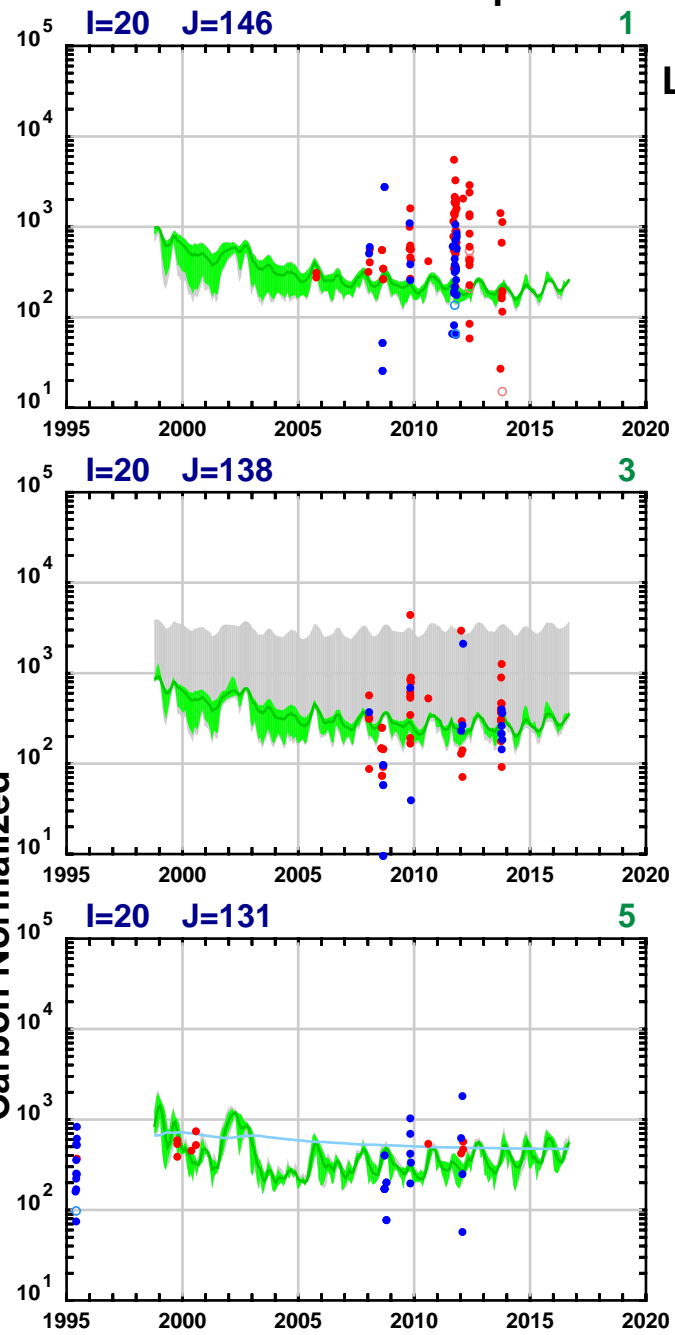
● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



Update of CARP Models  
Lower Passaic River - II

2,3,4,6,7,8-Hexachlorodibenzofuran  
Carbon Normalized

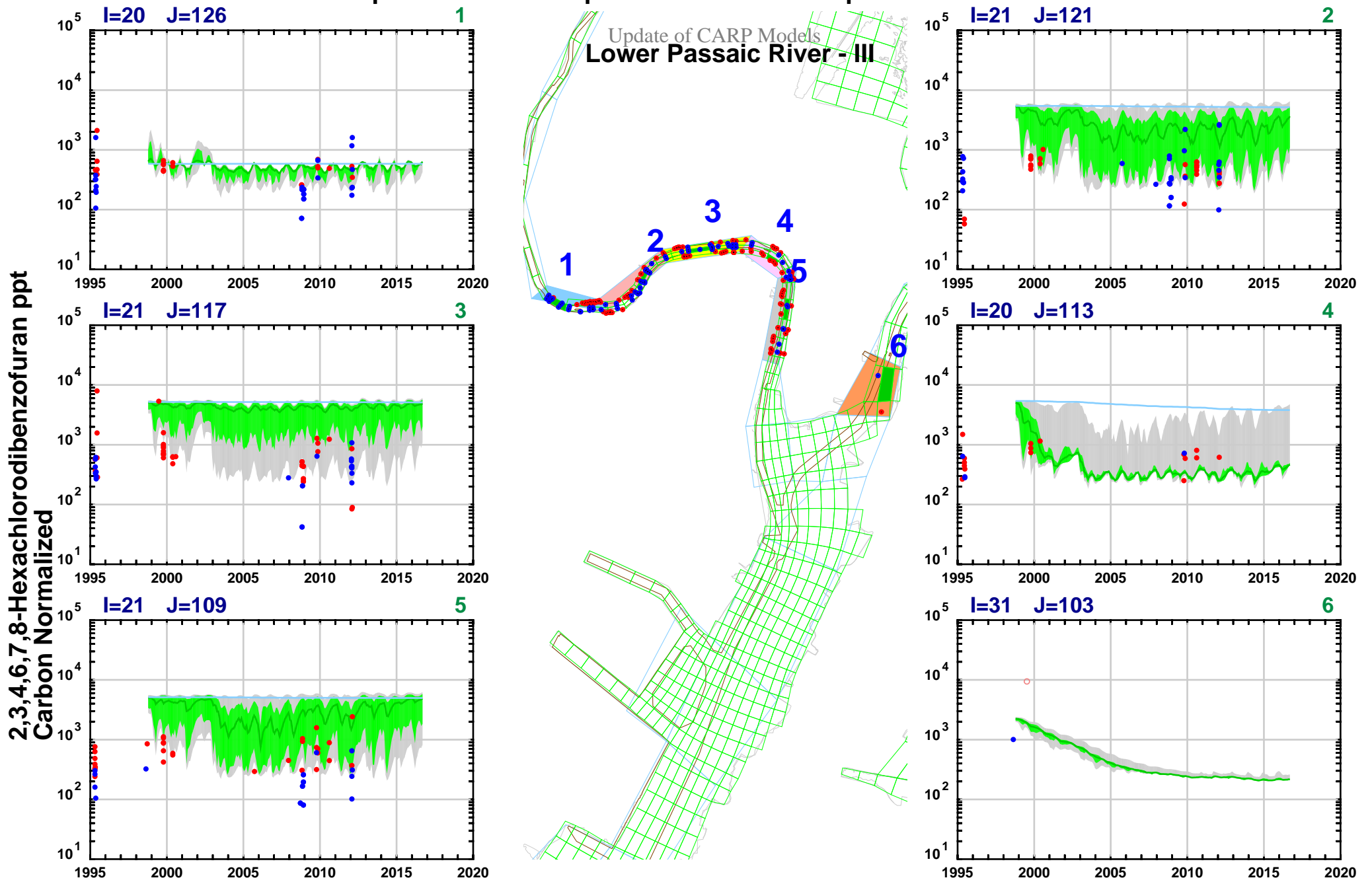


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



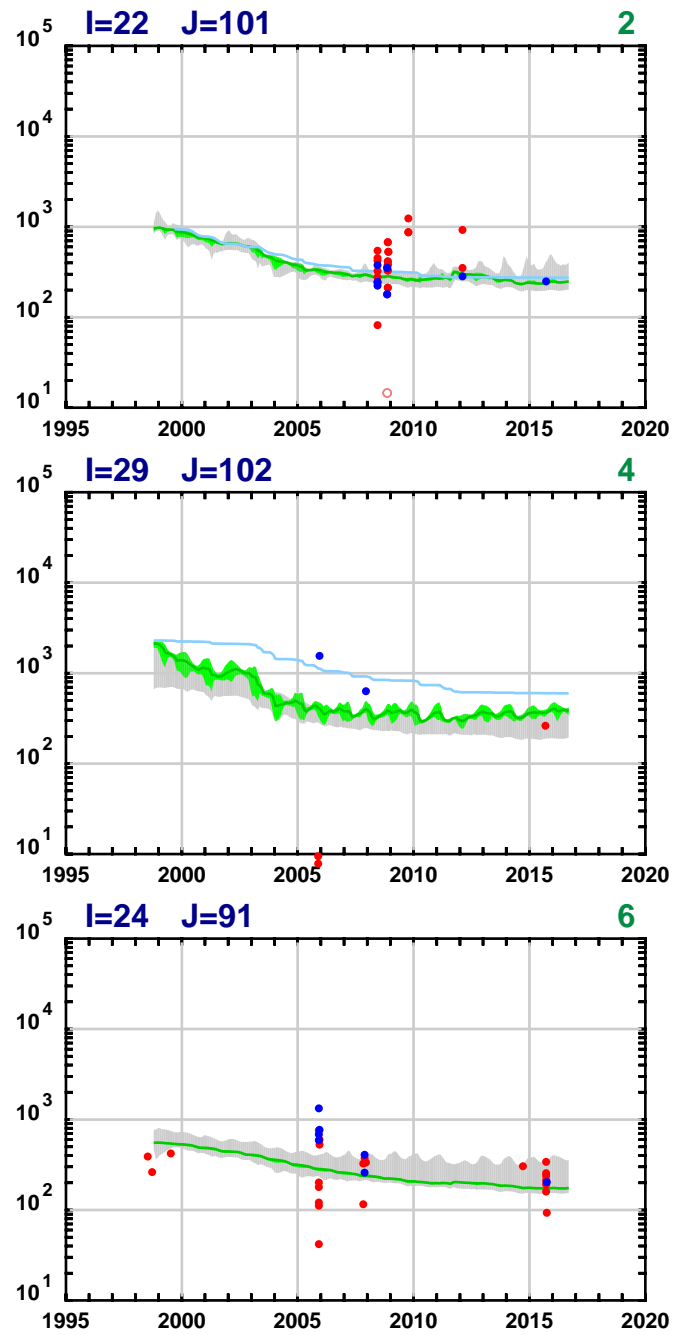
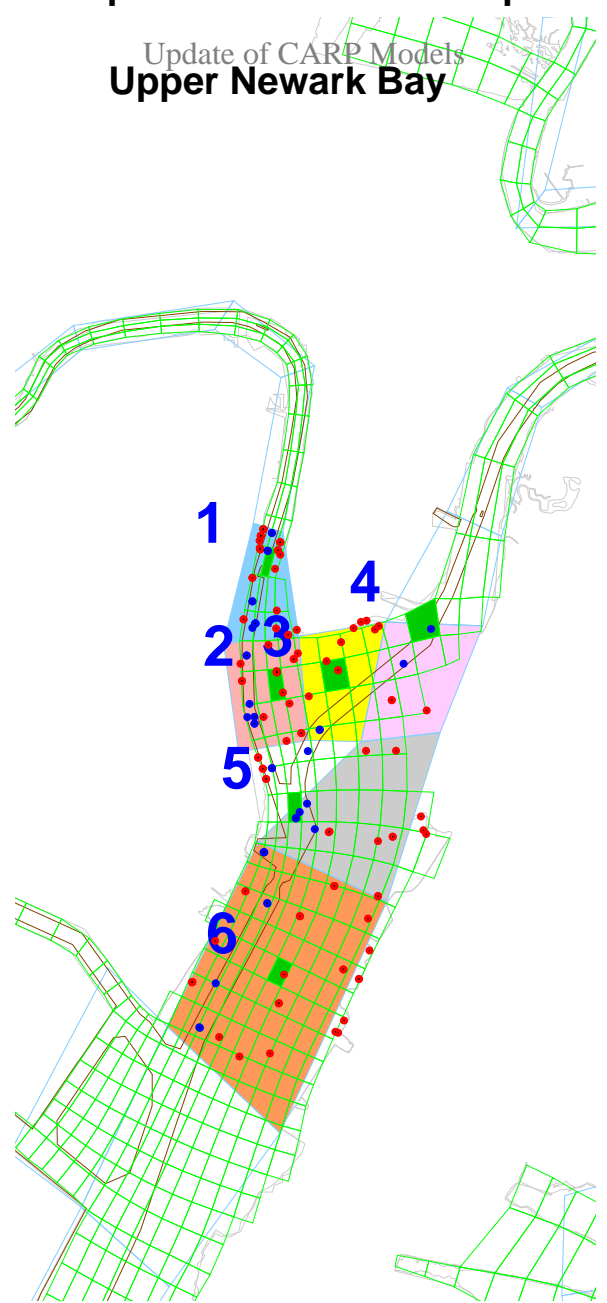
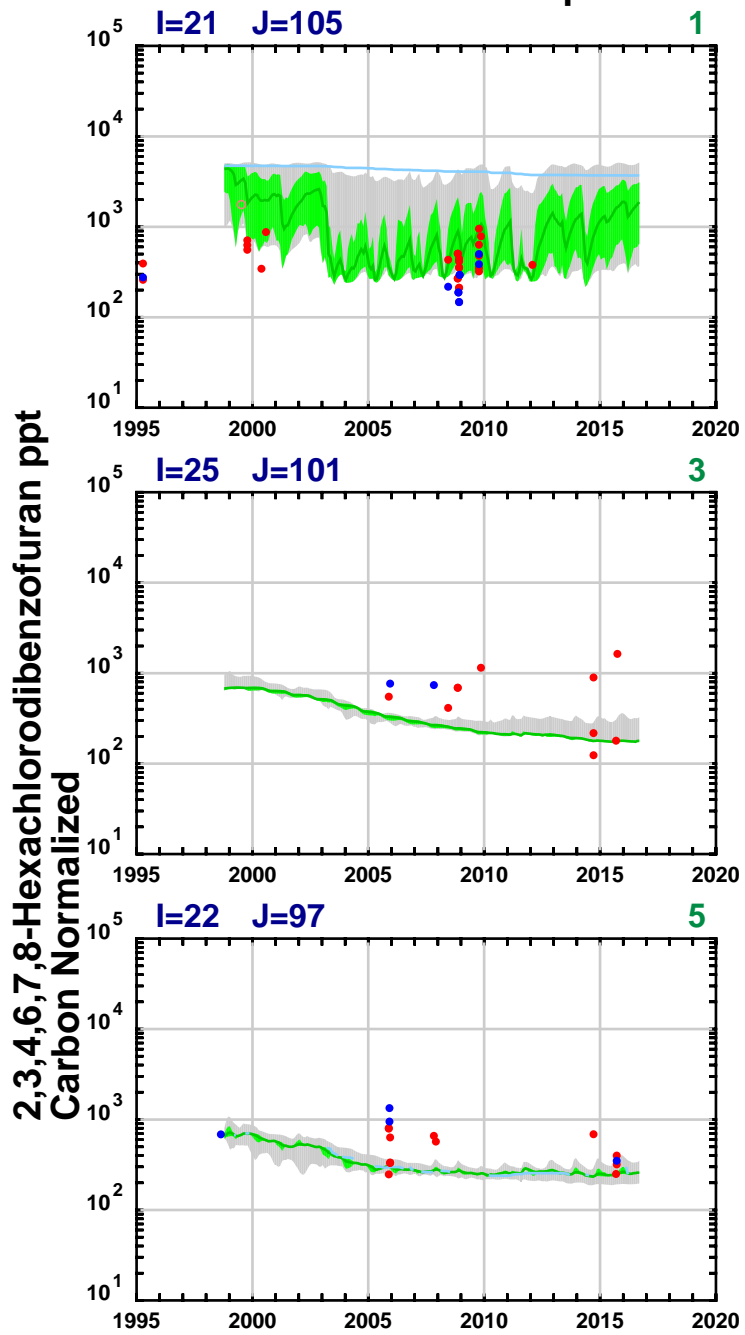
**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



RUN18\_S4\_R2

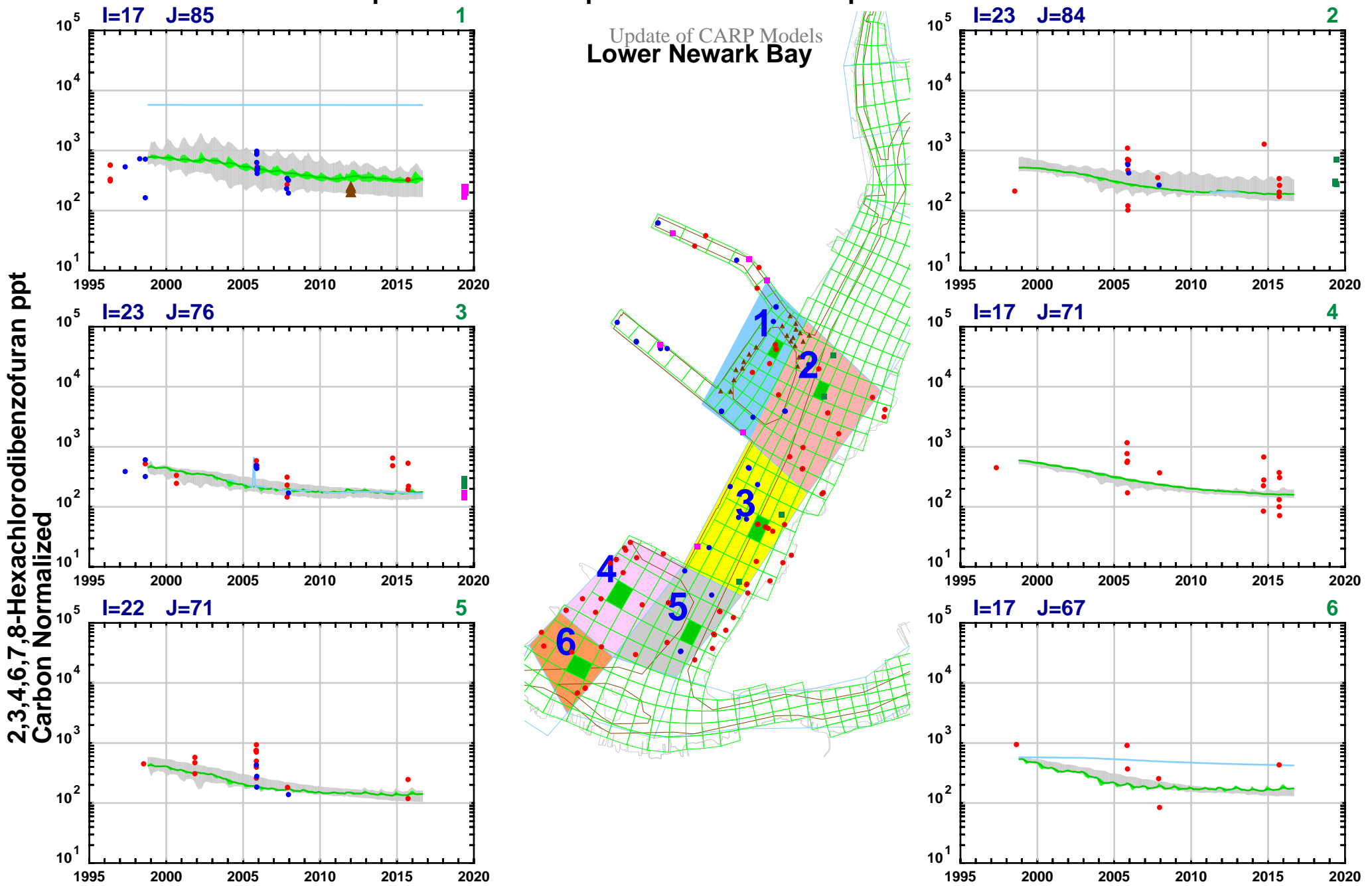
Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Lower Newark Bay



2,3,4,6,7,8-Hexachlorodibenzofuran  
Carbon Normalized

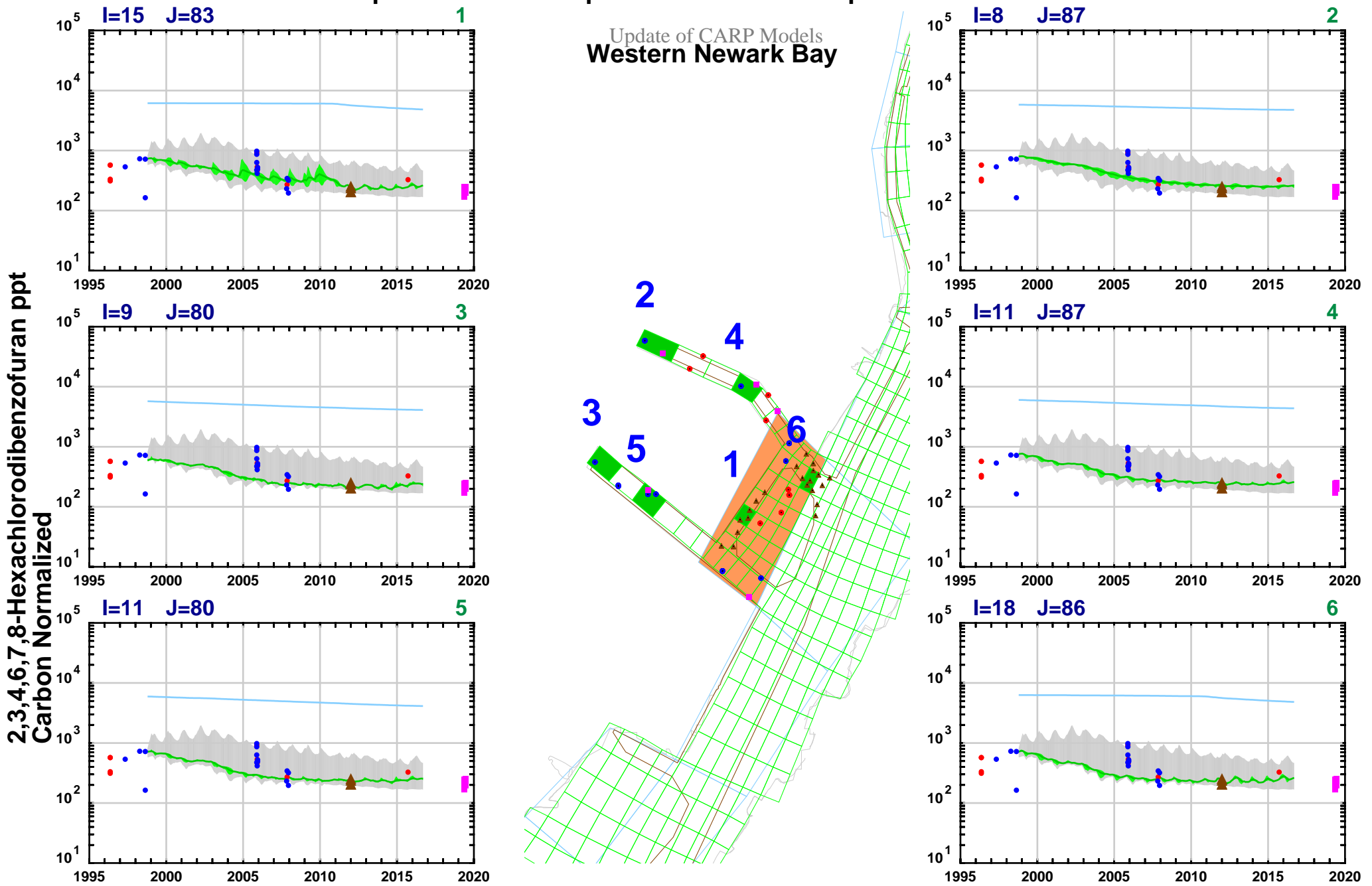
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay



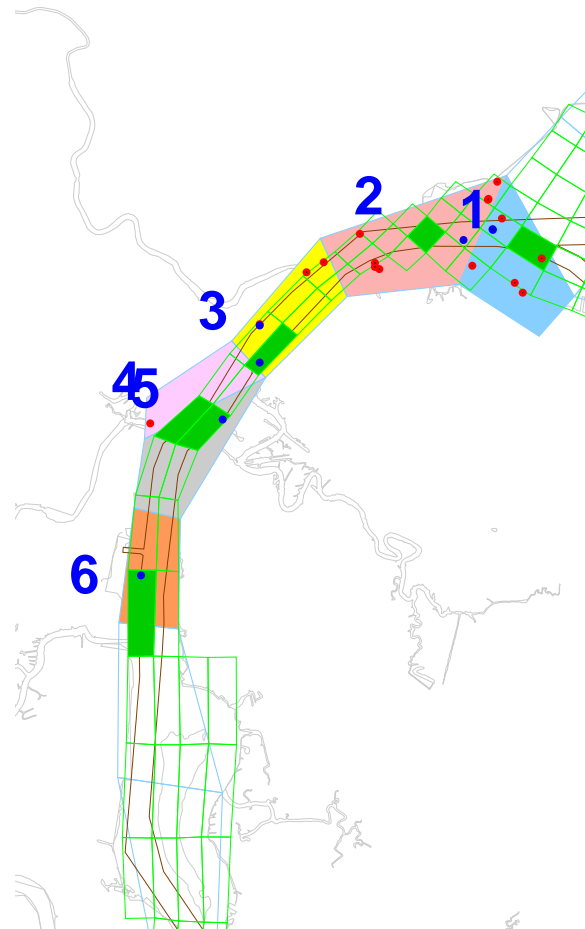
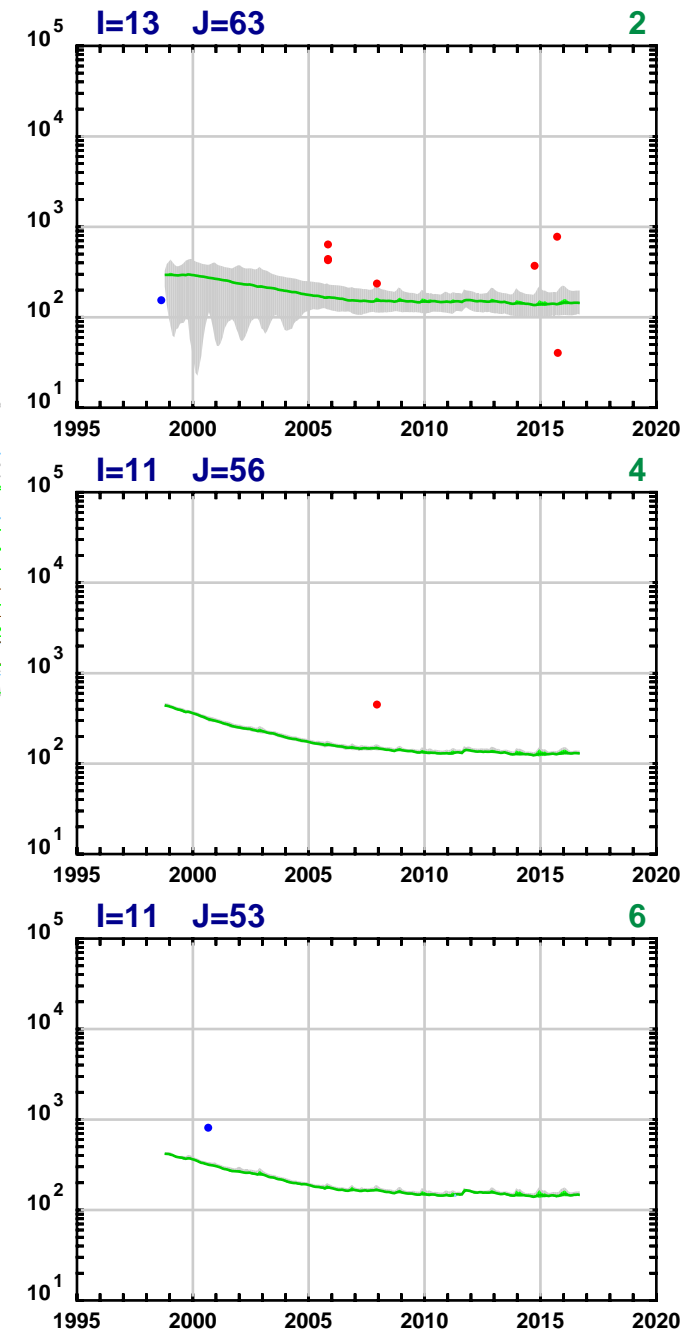
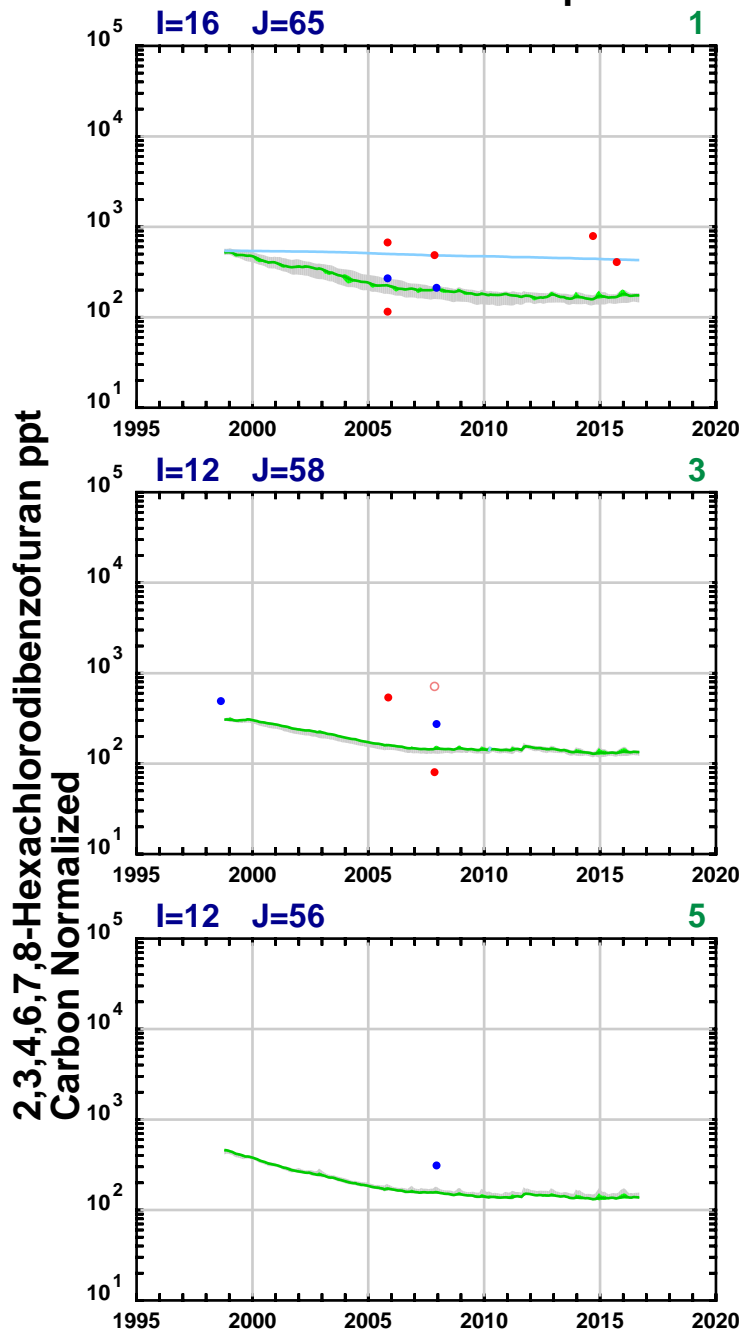
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

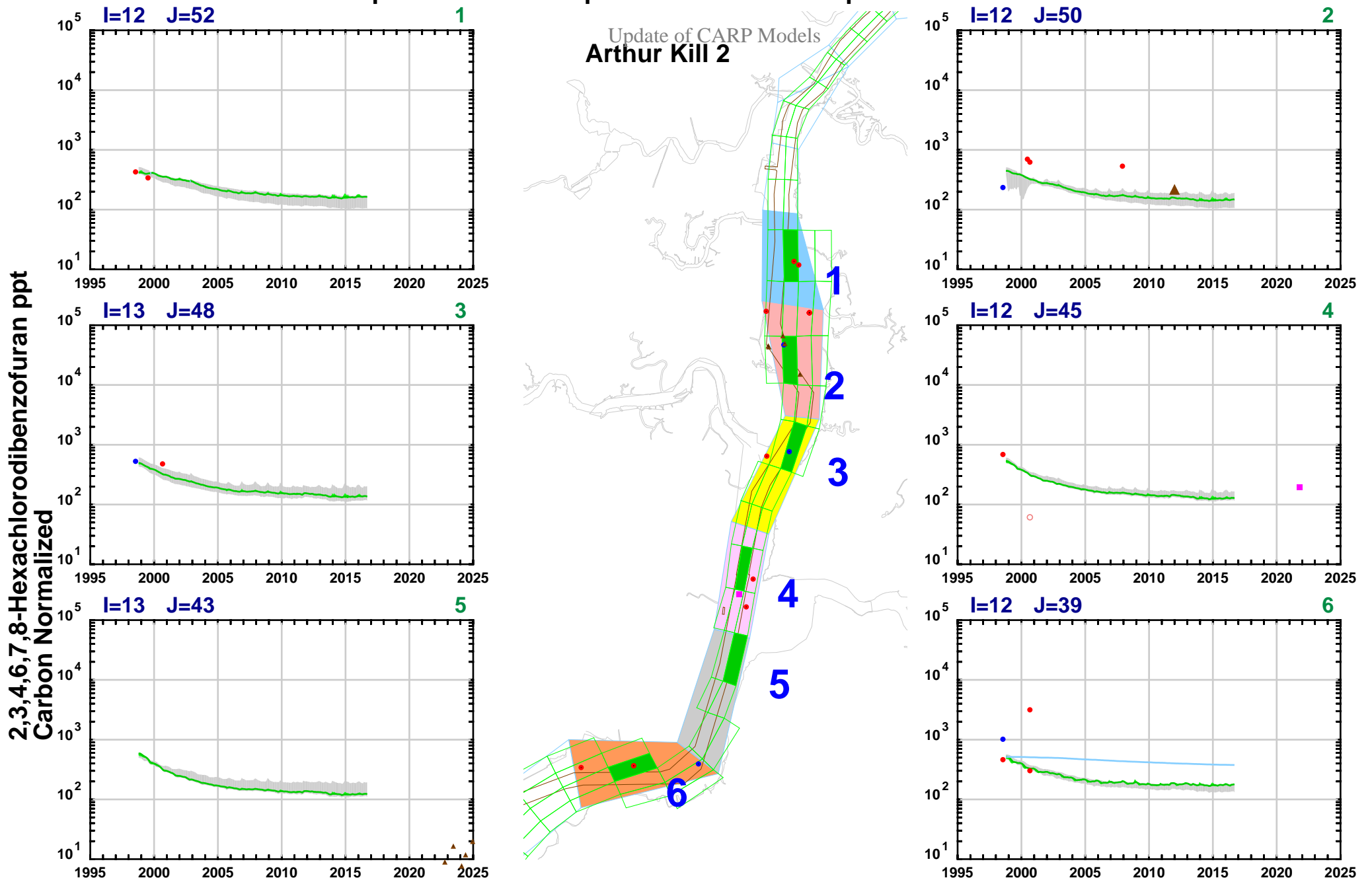


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

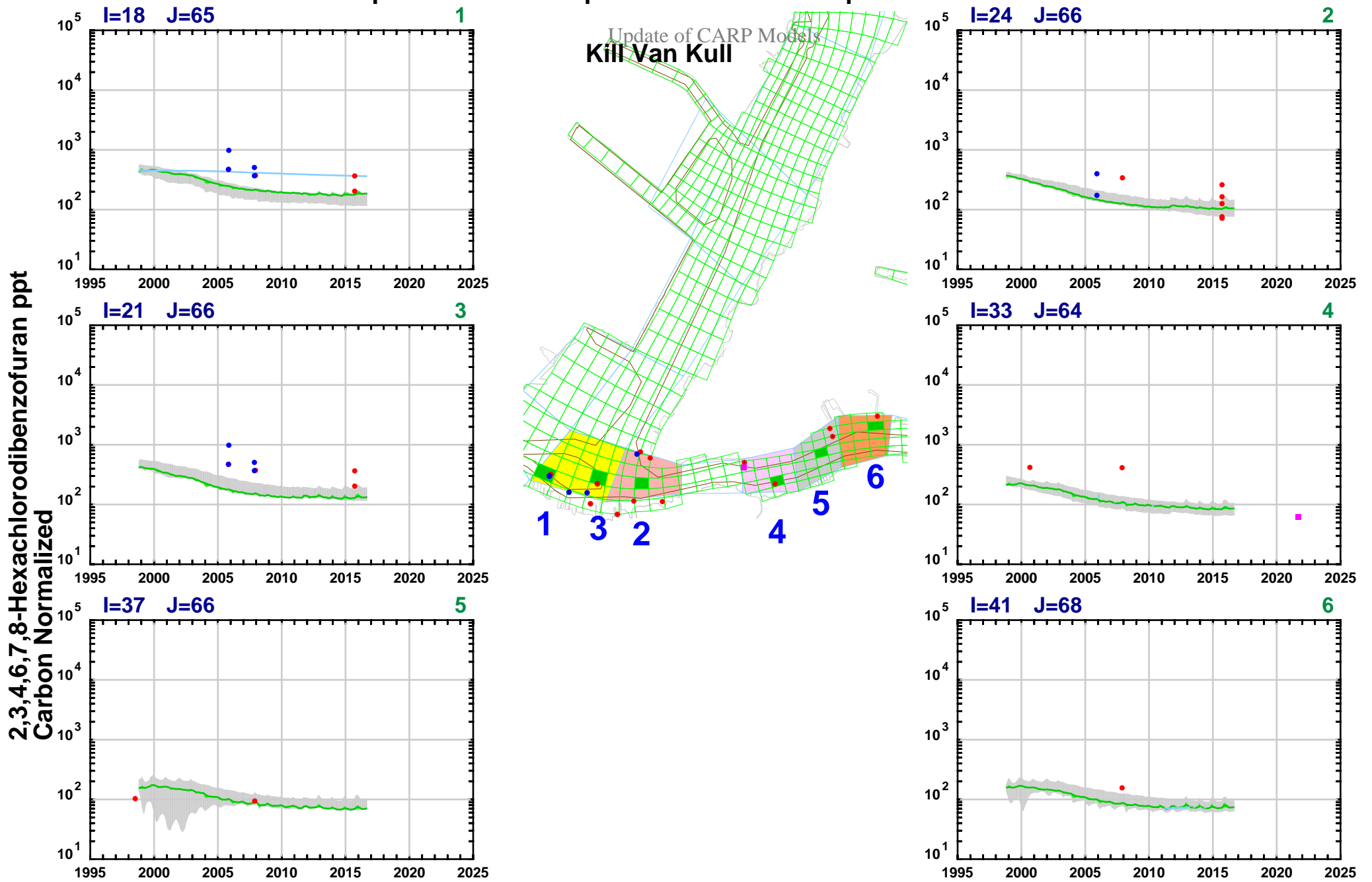


**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

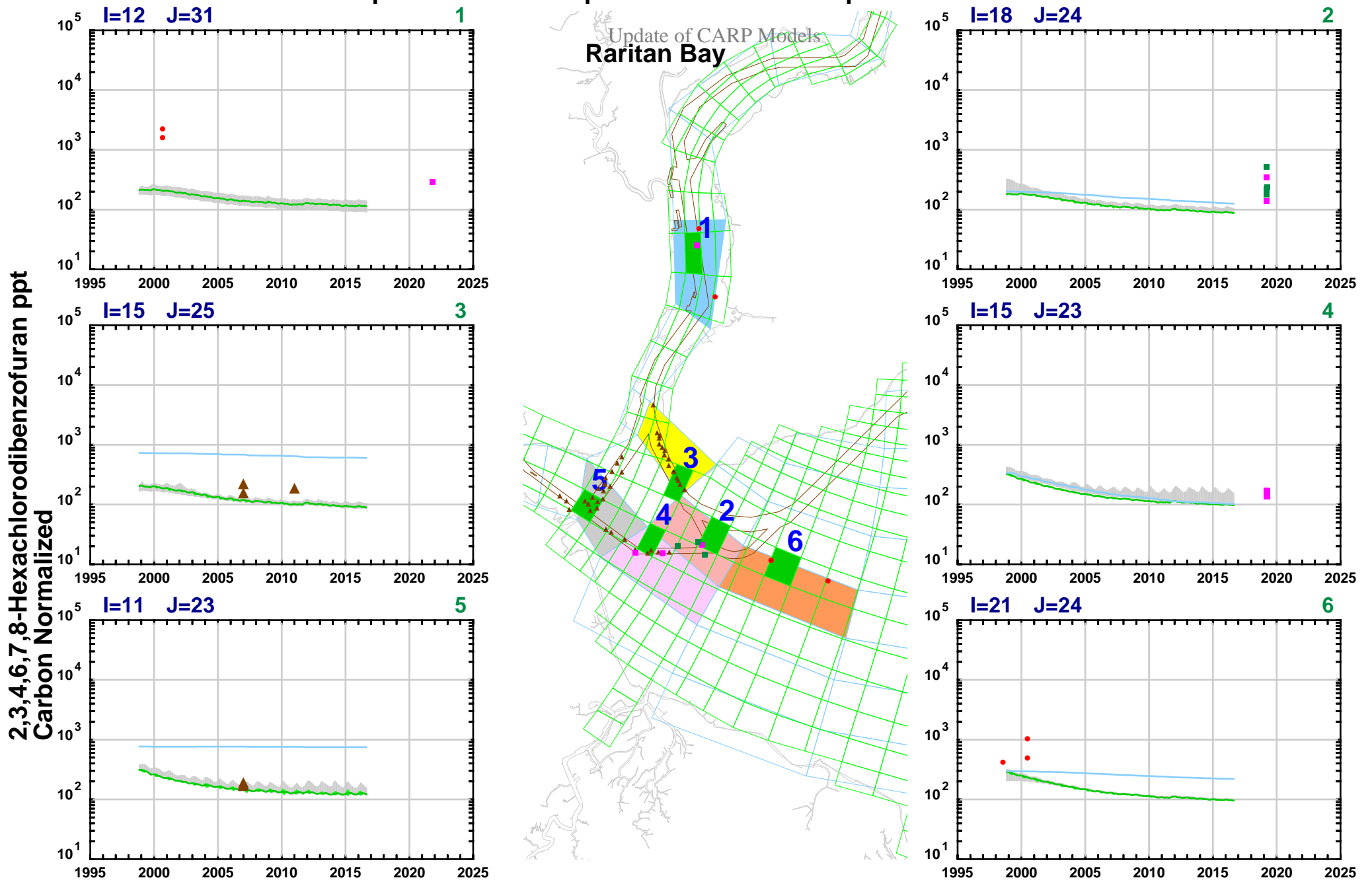


**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

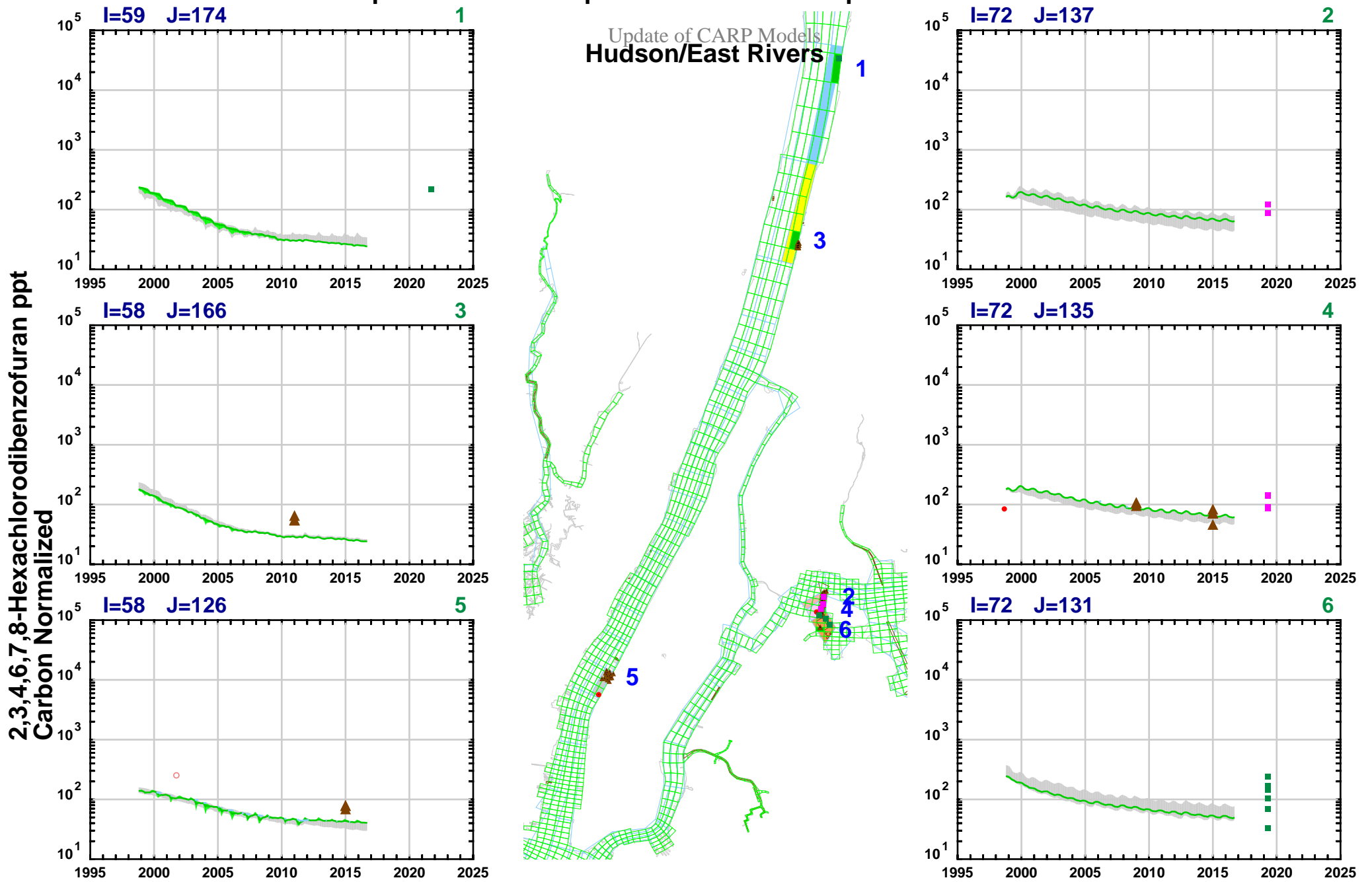


**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data    ● Off-channel data    ▲ Dredge data**  
**■ CARP2 In-channel    ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment



Update of CARP Models  
Hudson/East Rivers

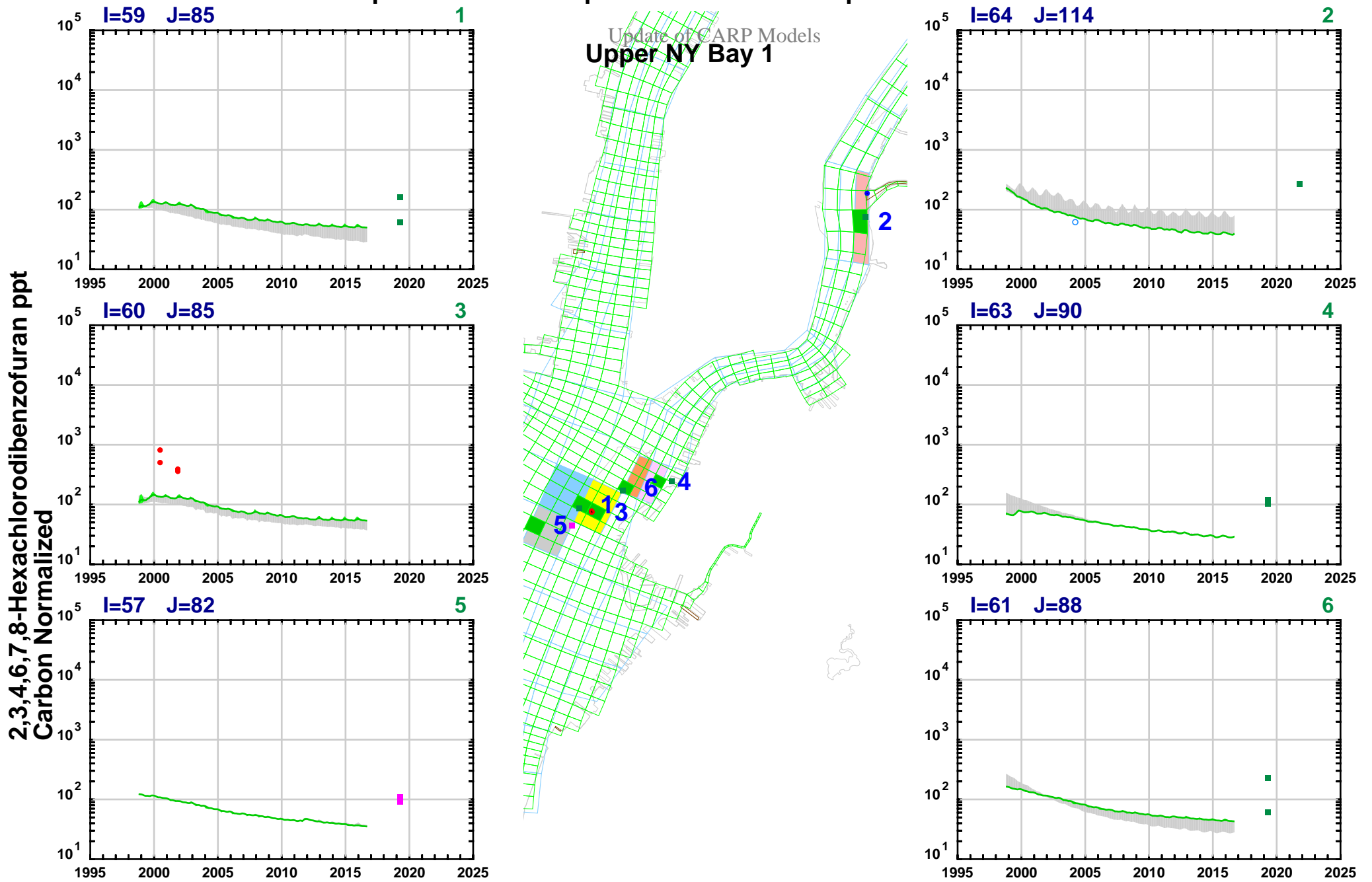
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

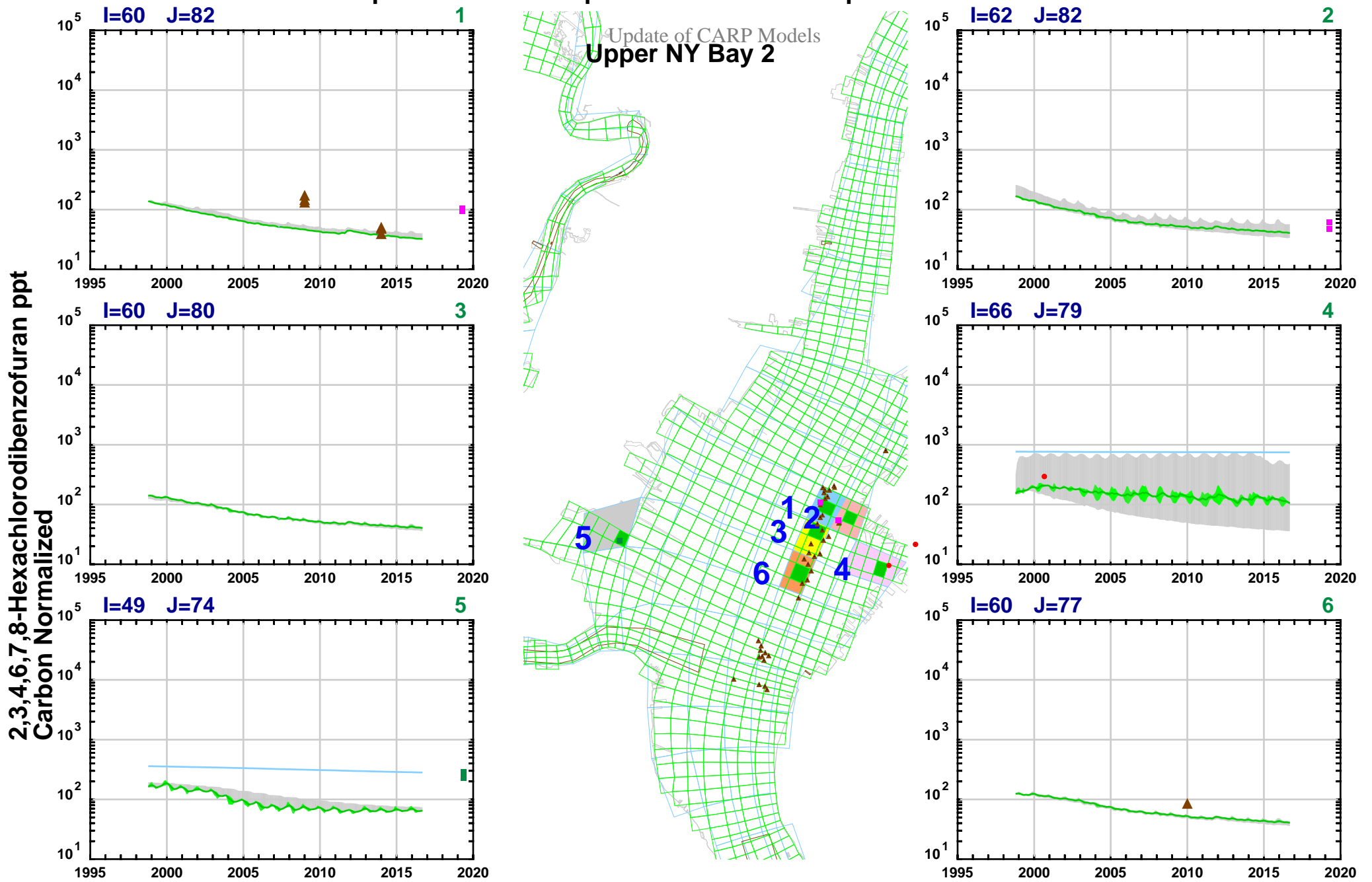


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

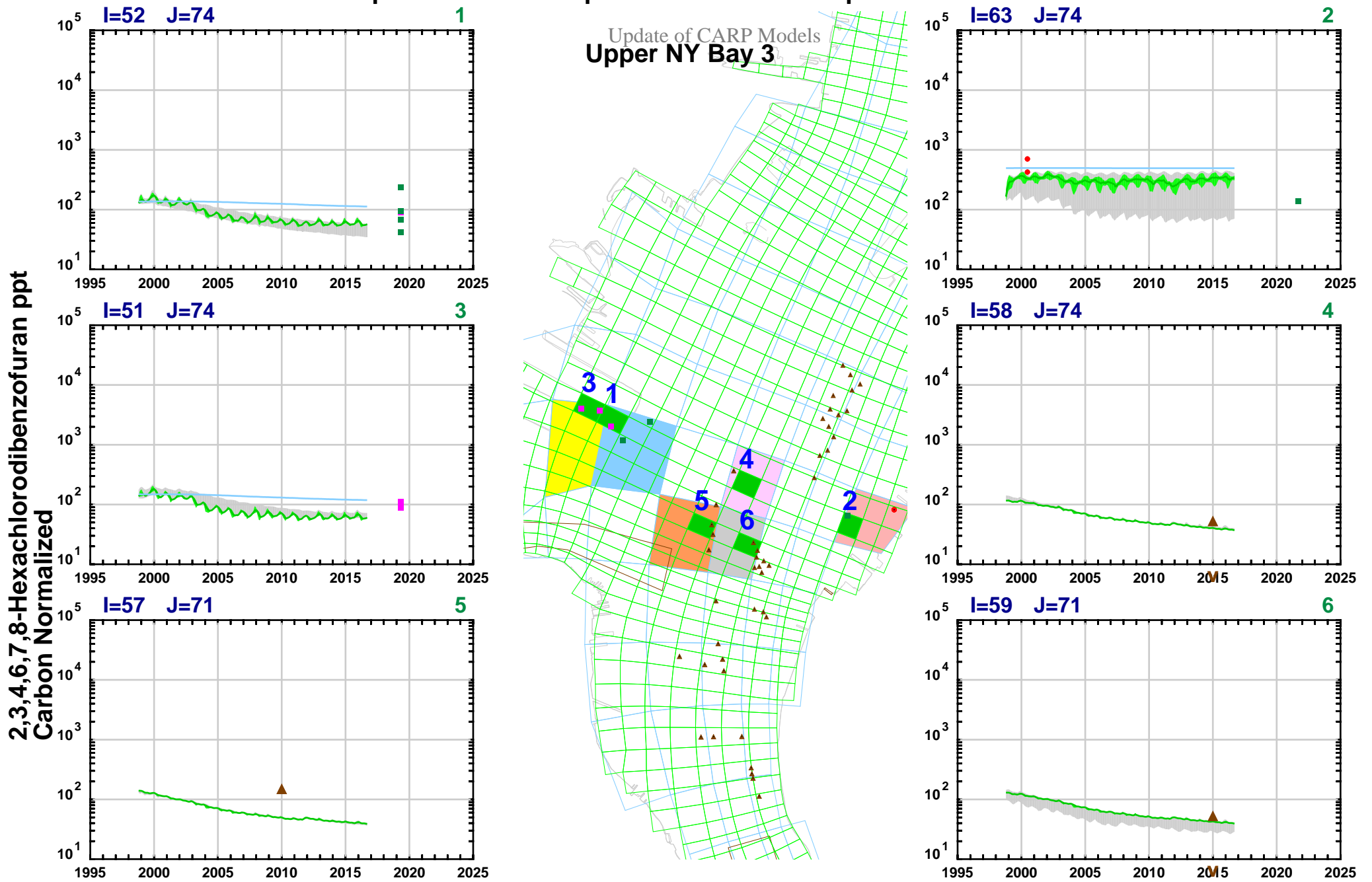


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

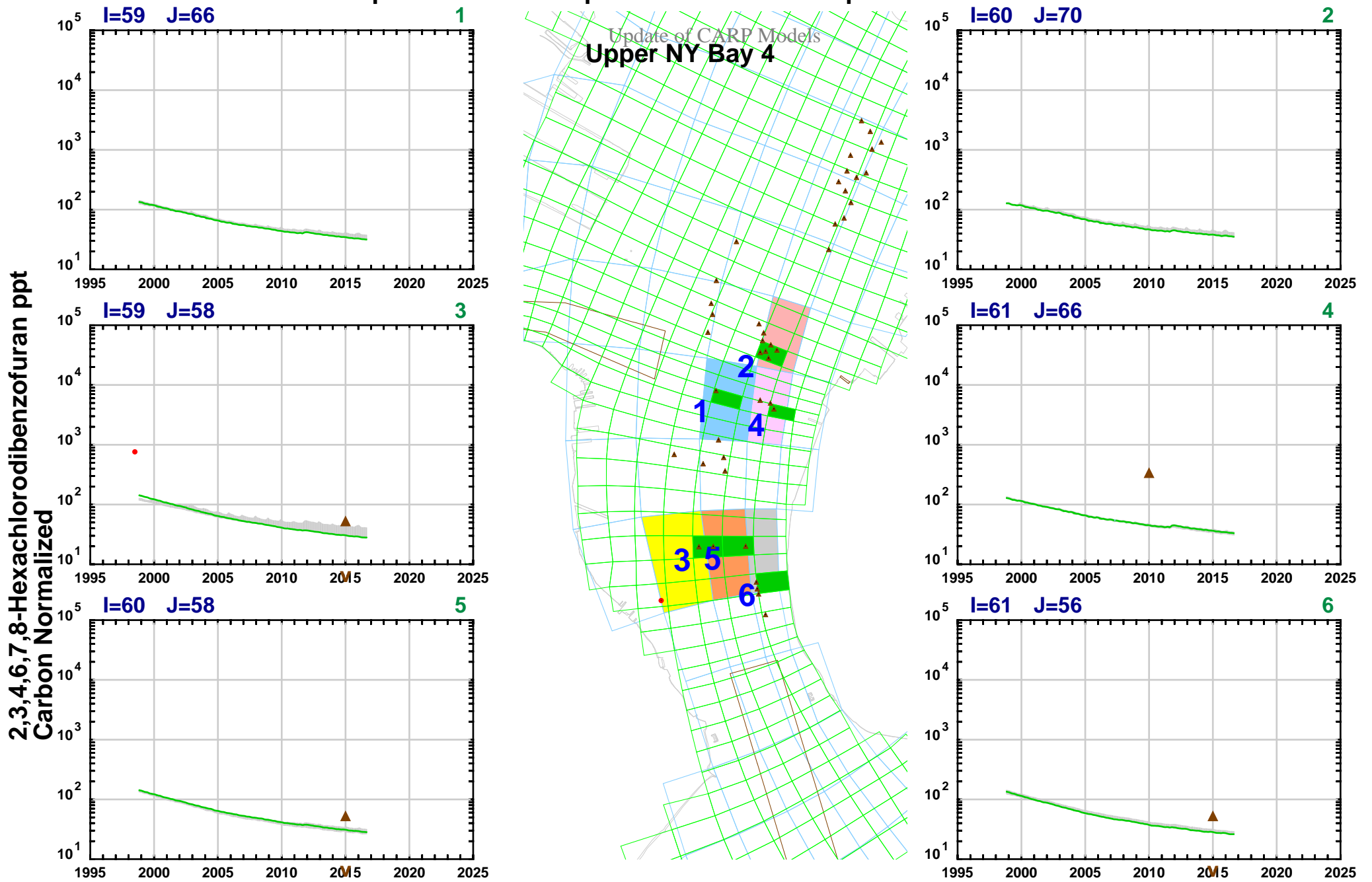


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

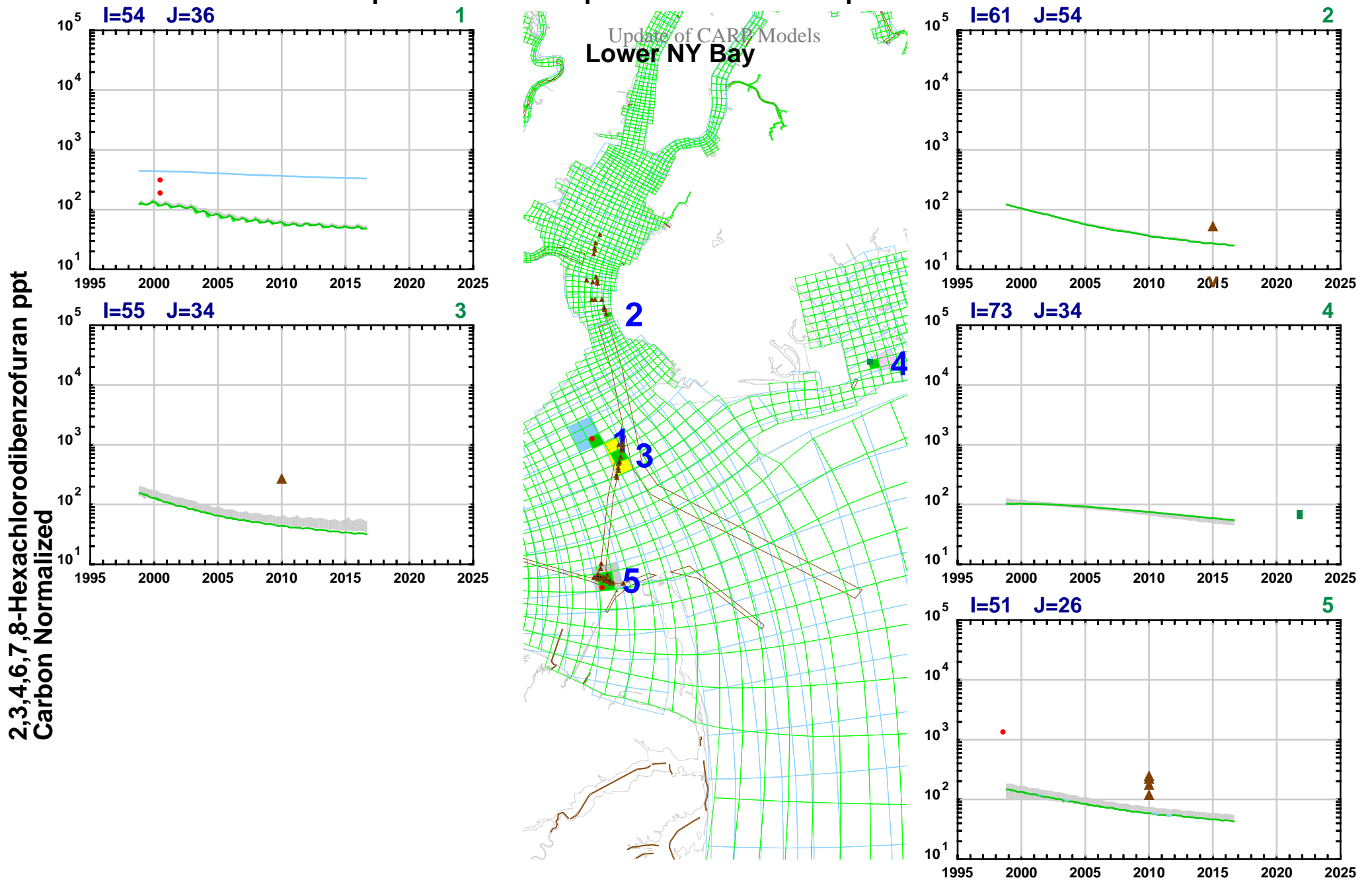


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



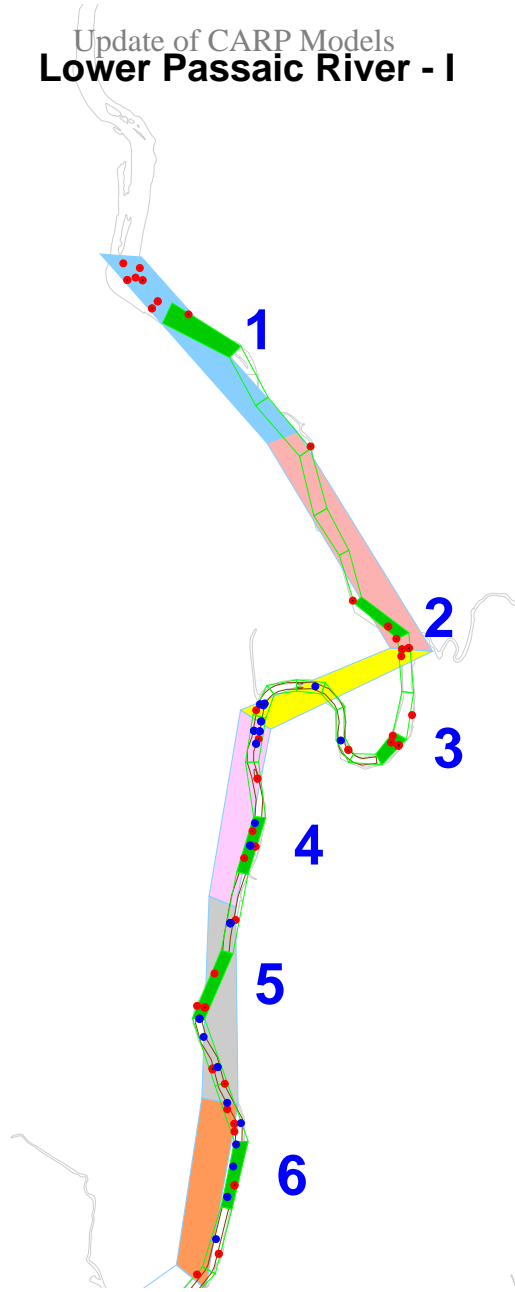
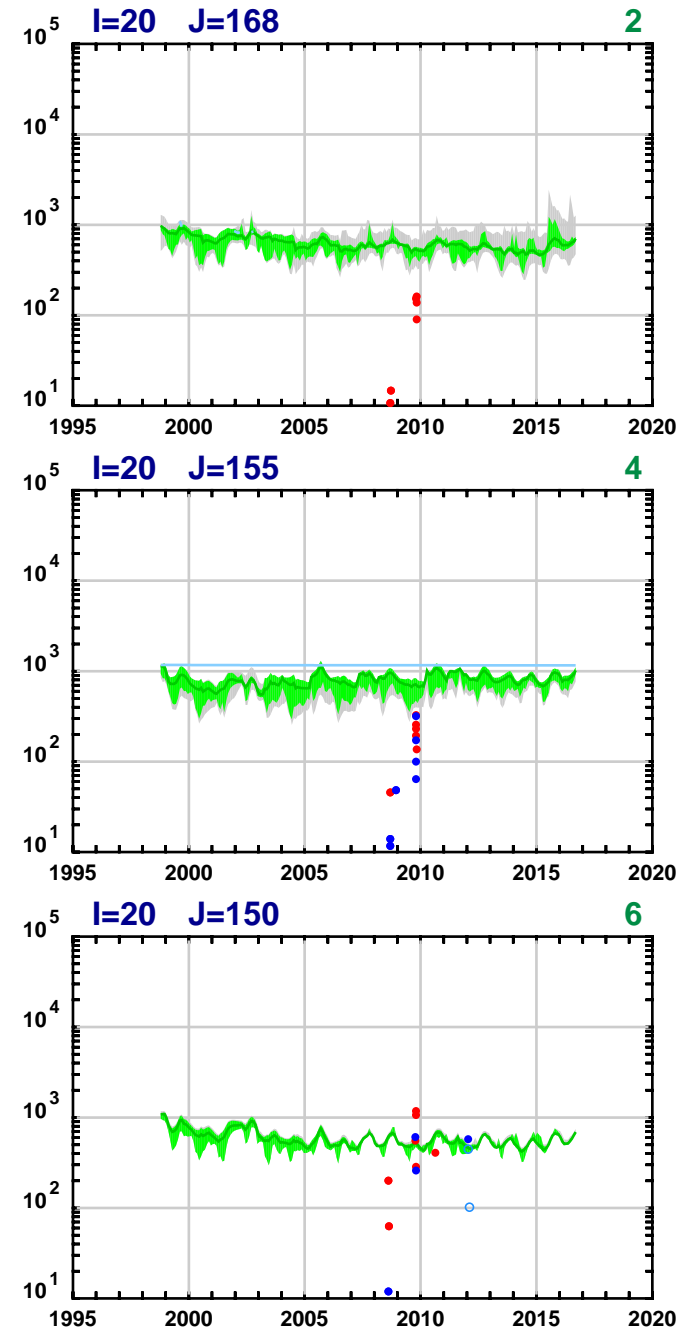
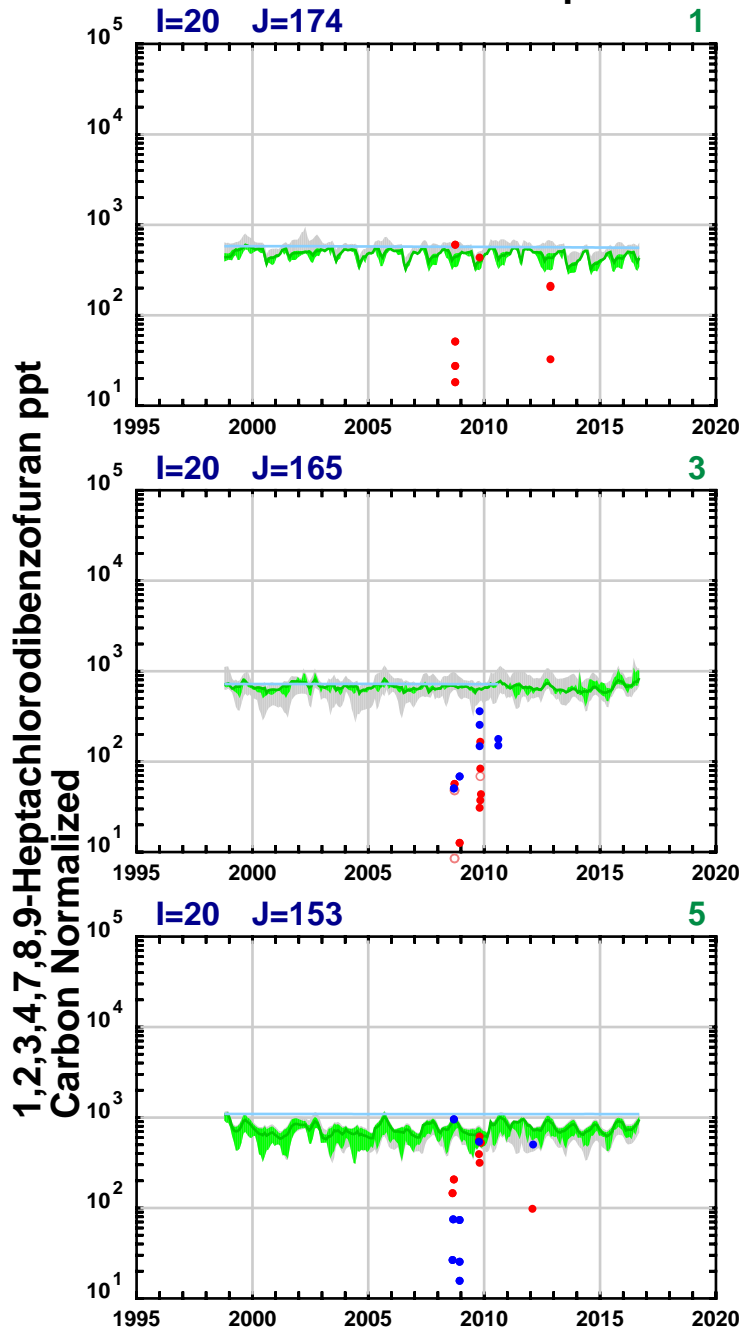
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

## Update of CARP Models Lower Passaic River - I



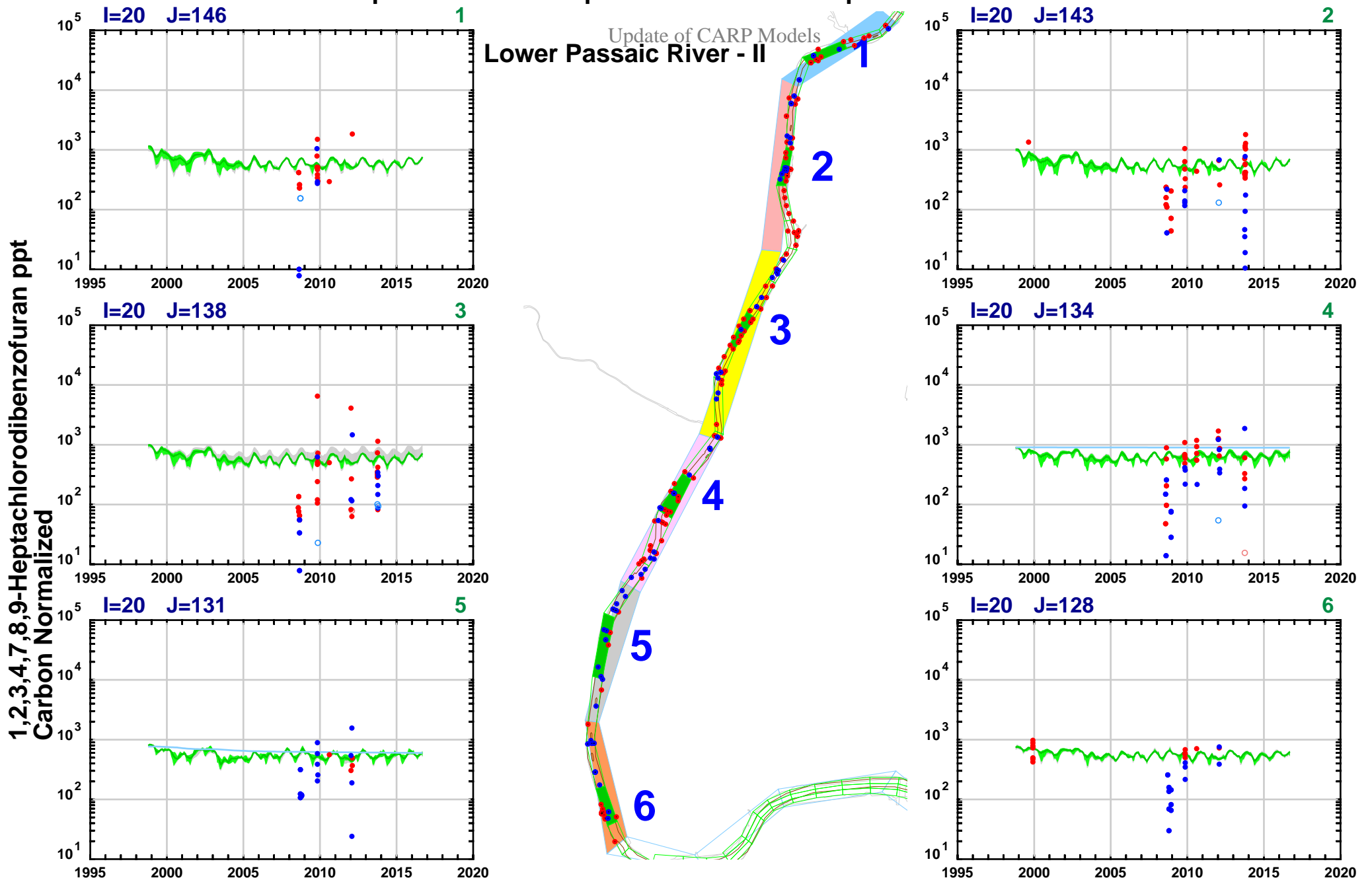
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



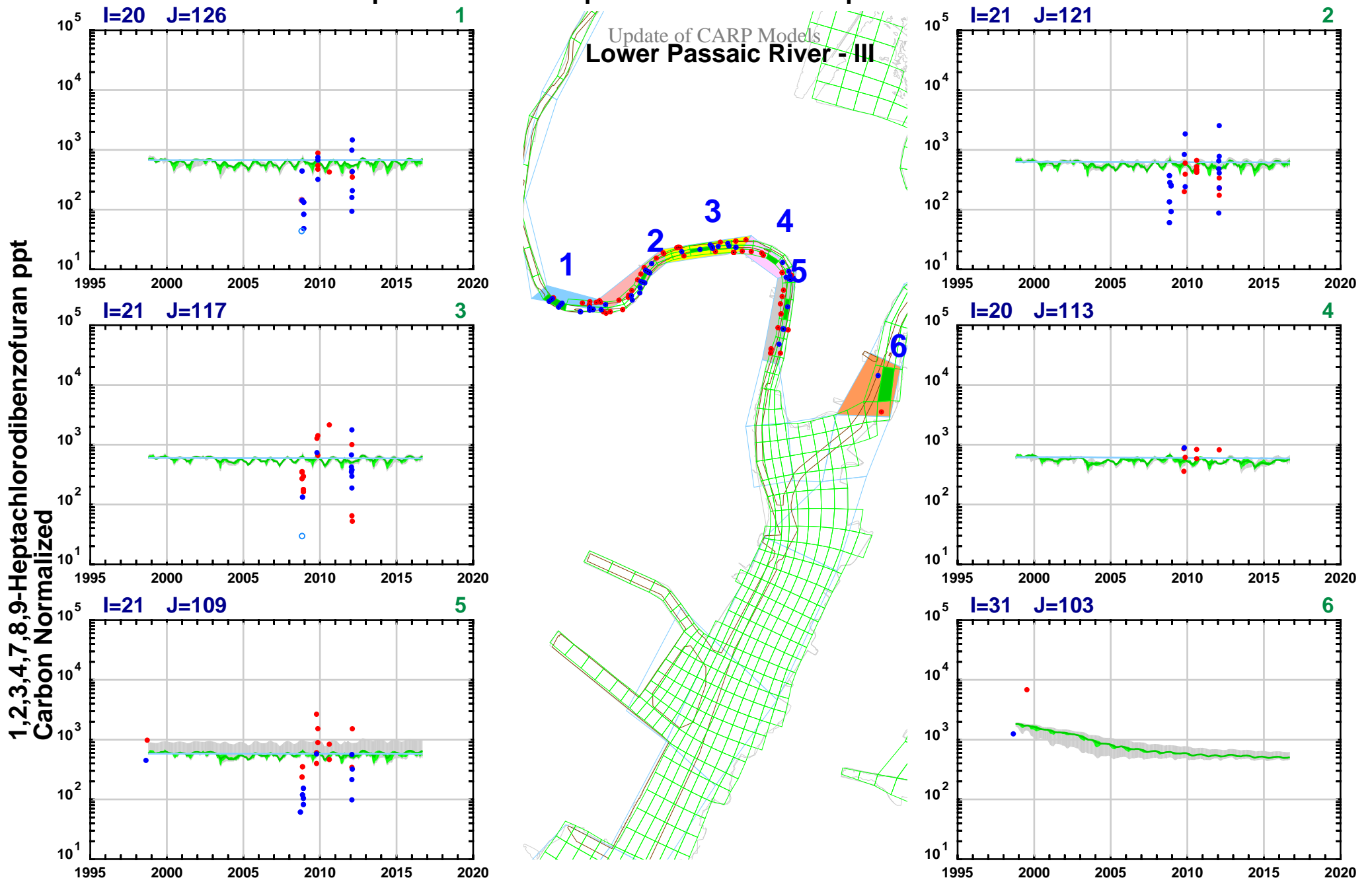
**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

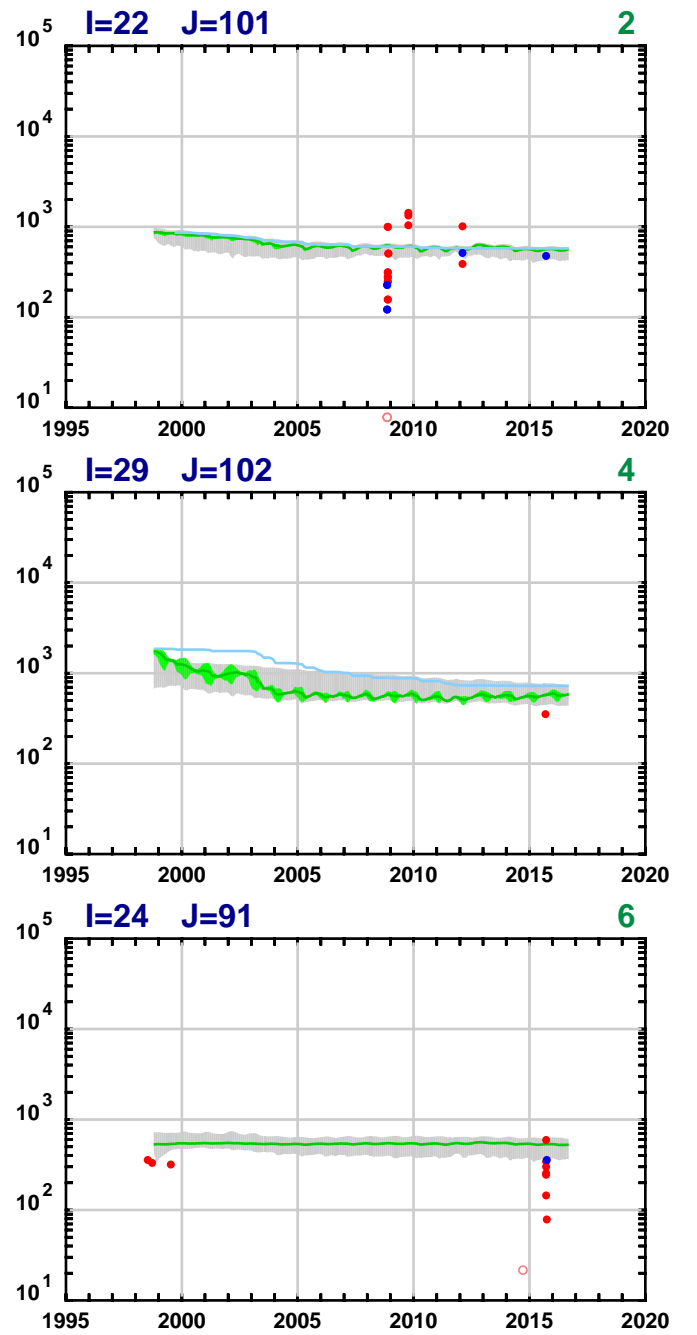
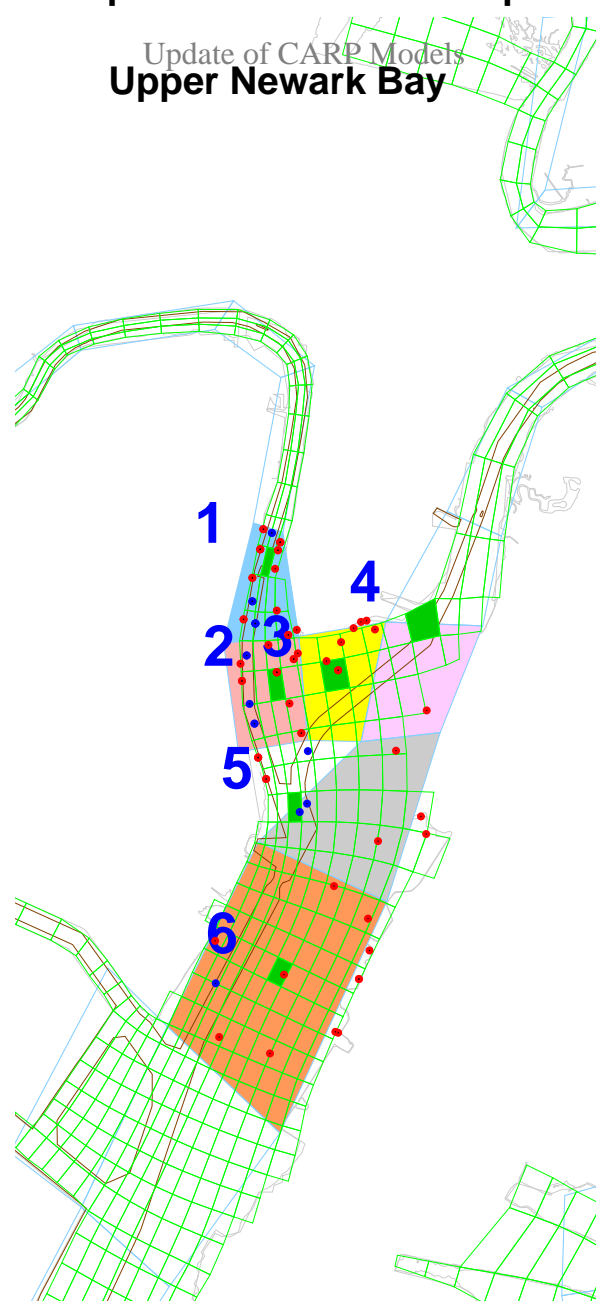
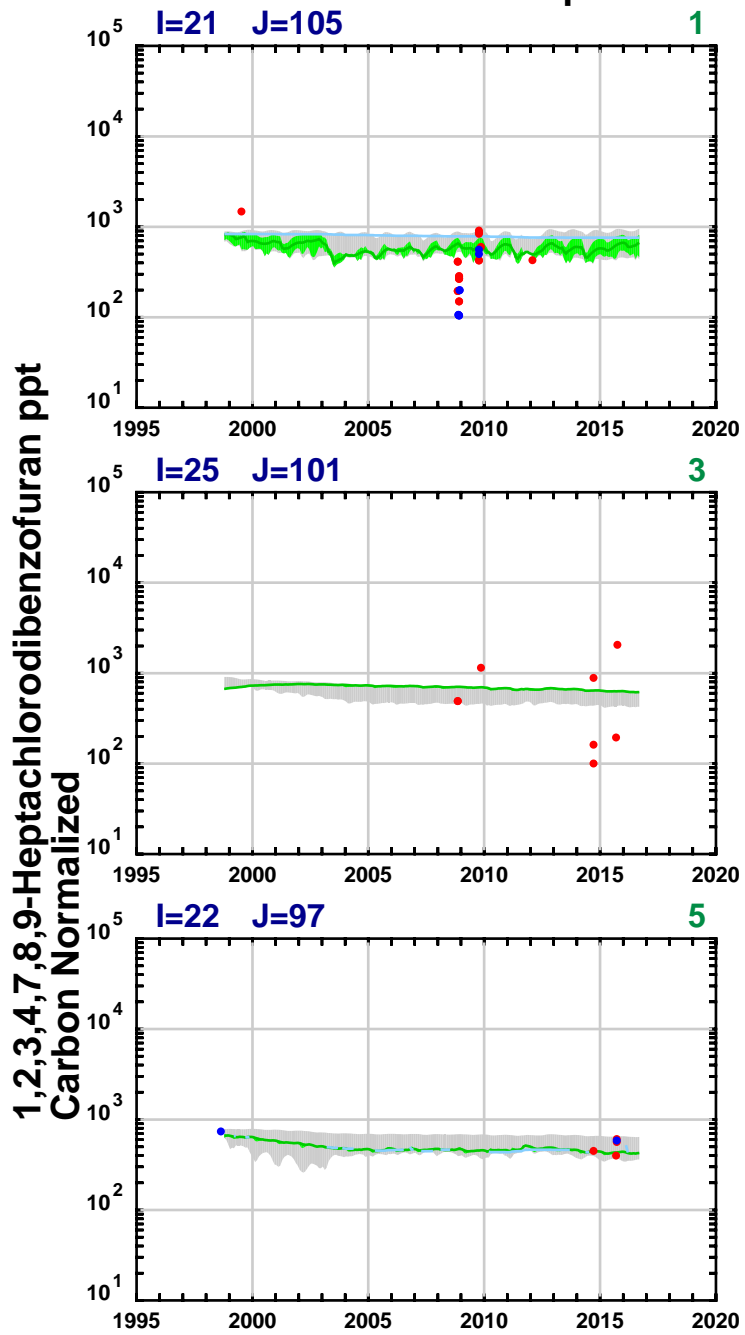


**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data    ● Off-channel data    ▲ Dredge data**  
**■ CARP2 In-channel    ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment



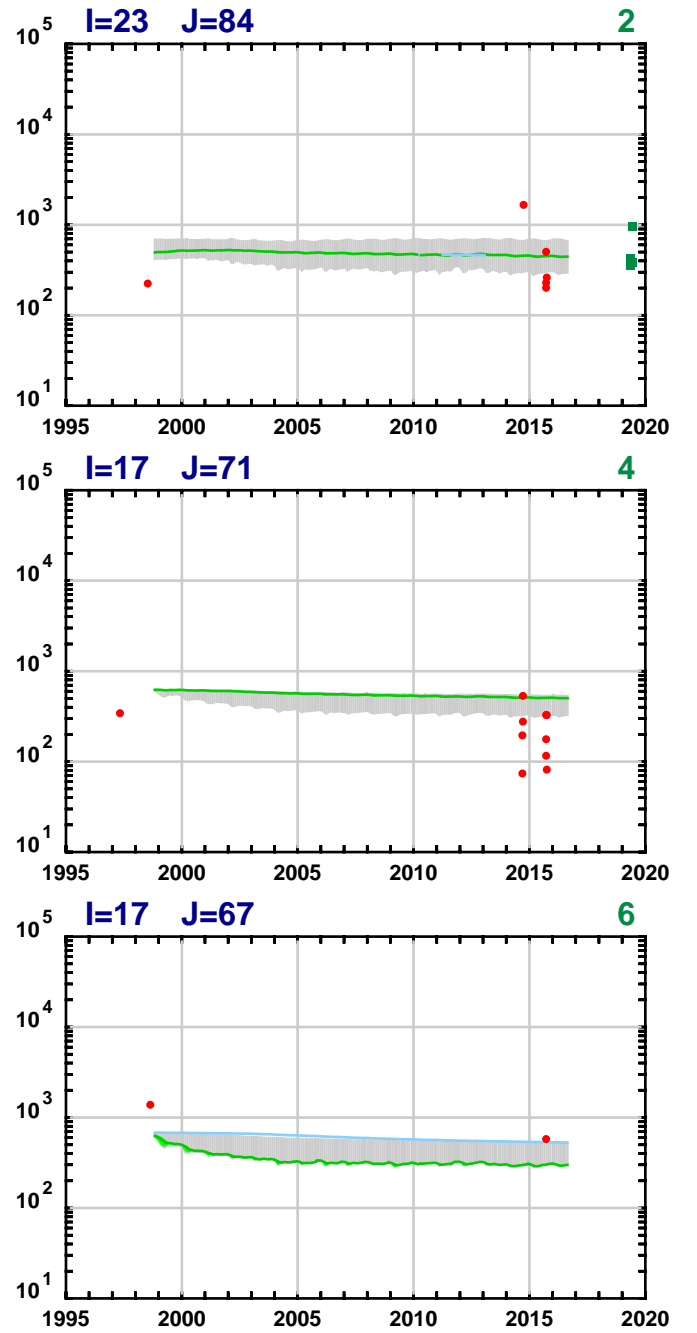
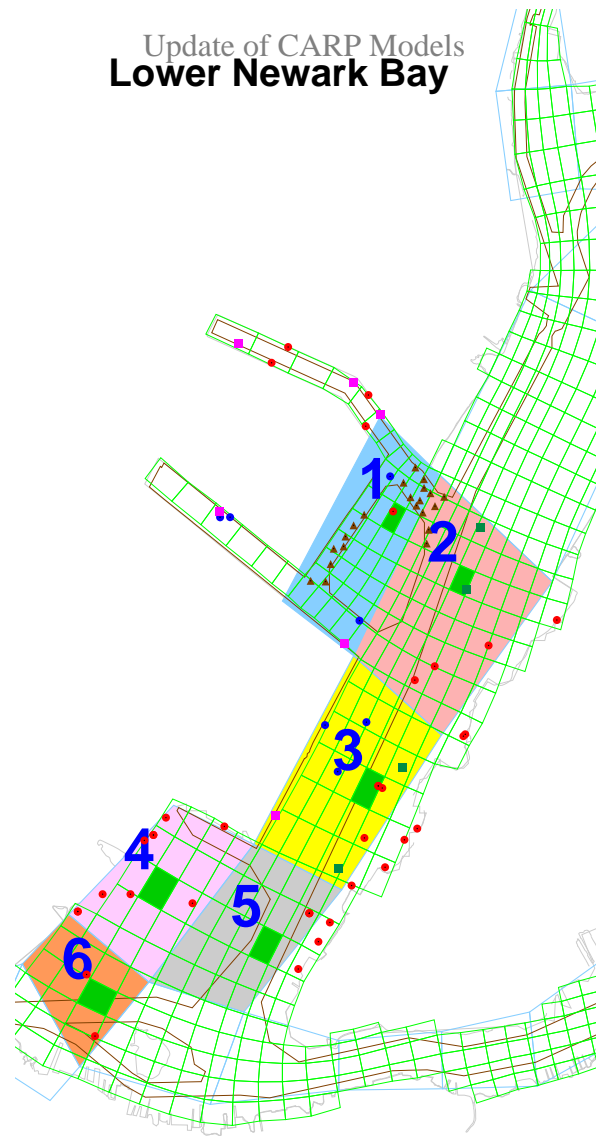
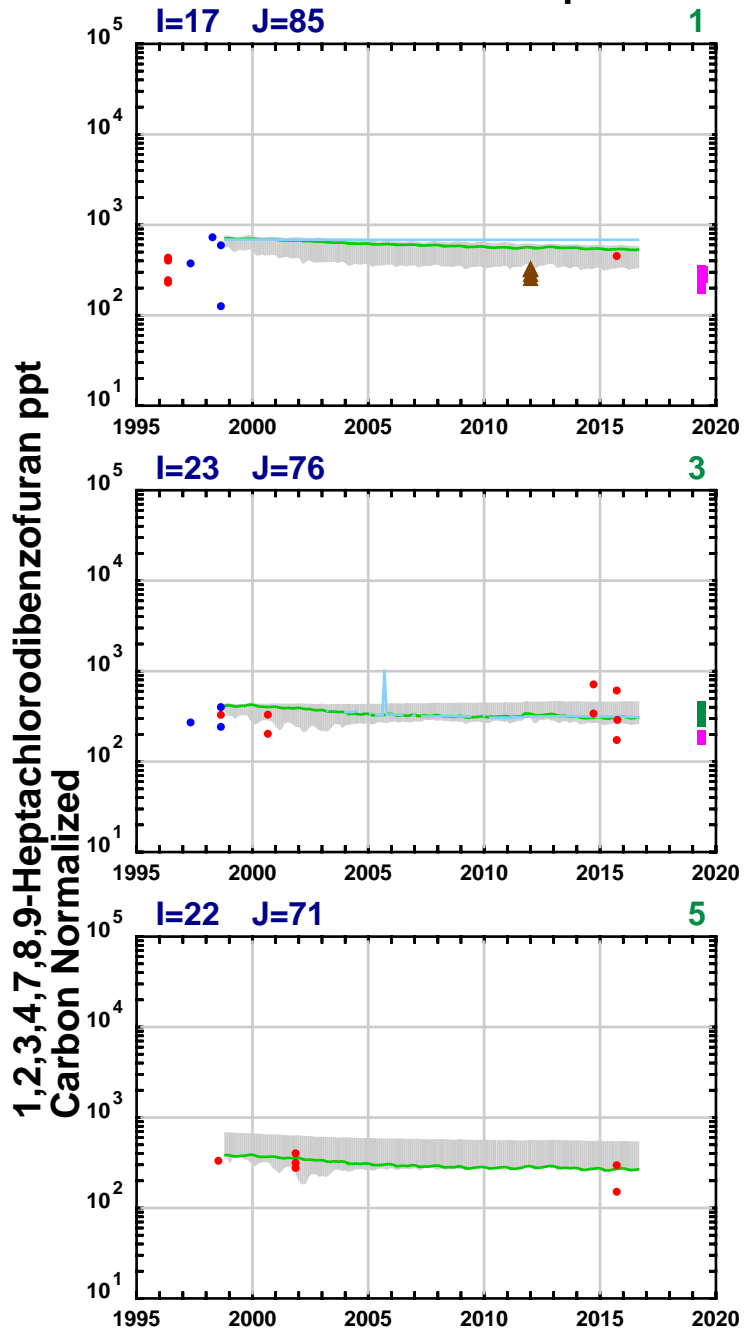
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Lower Newark Bay



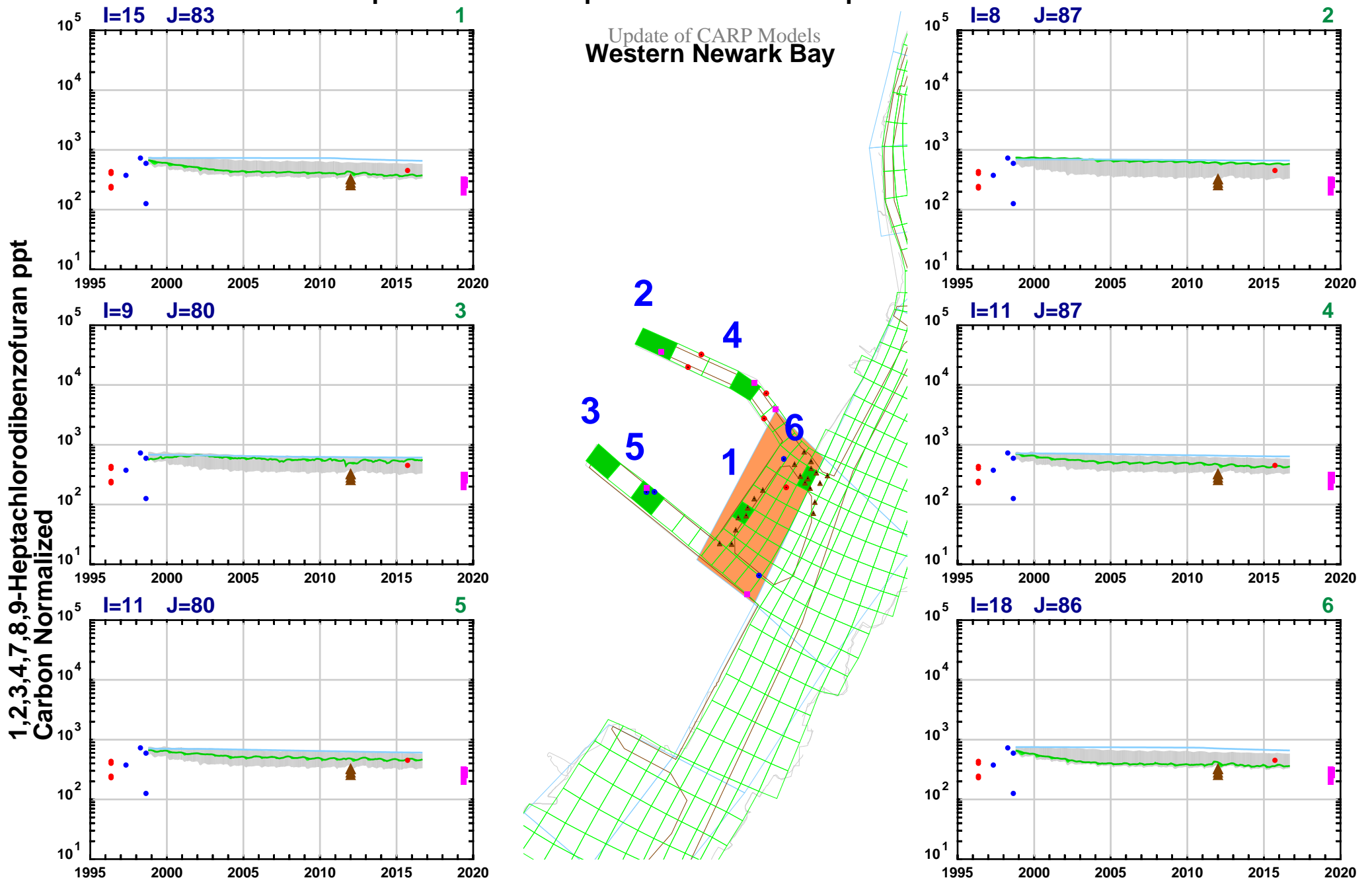
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay



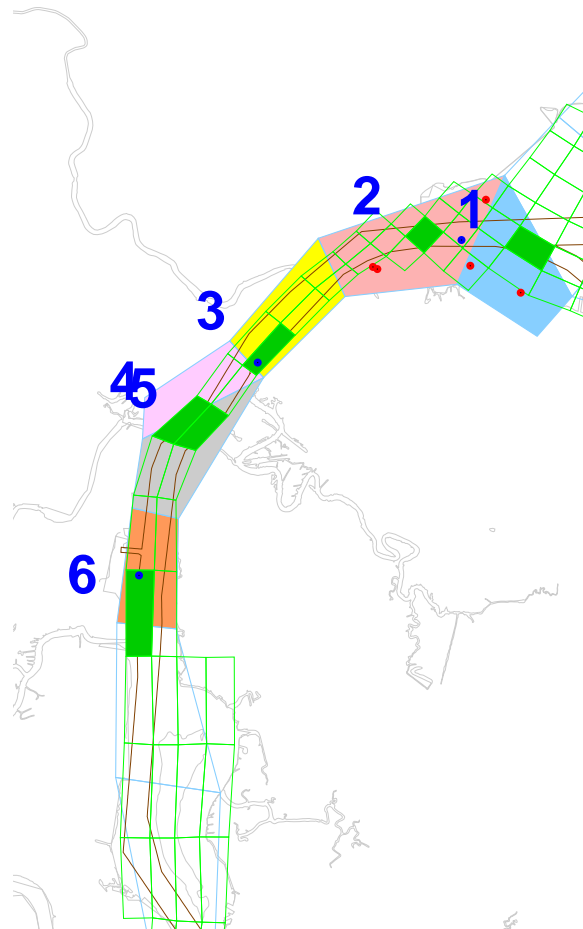
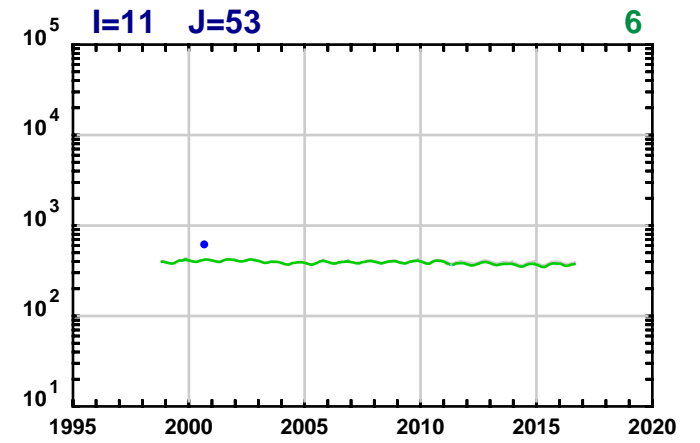
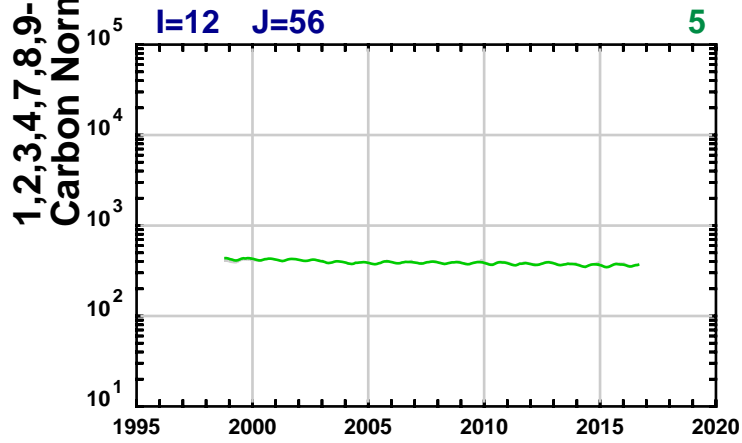
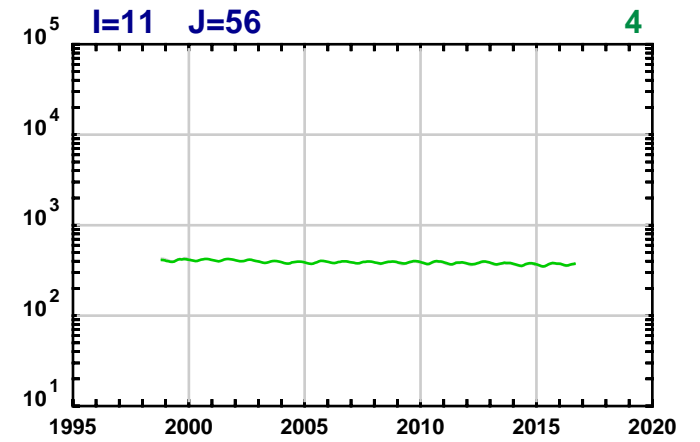
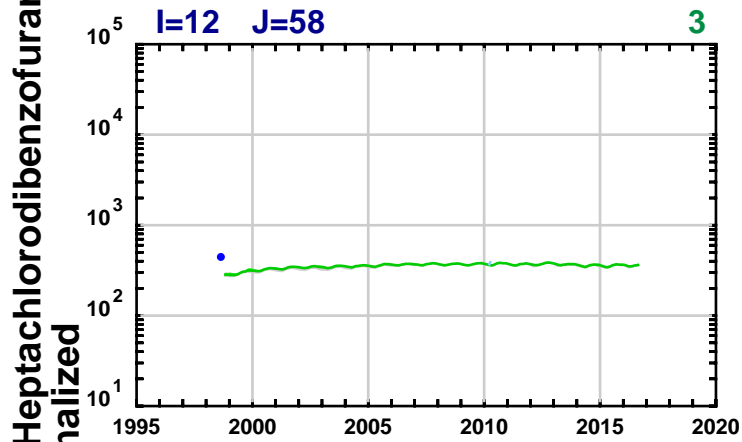
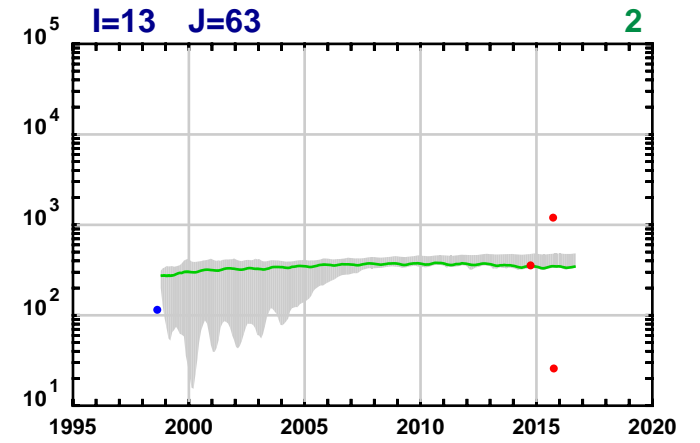
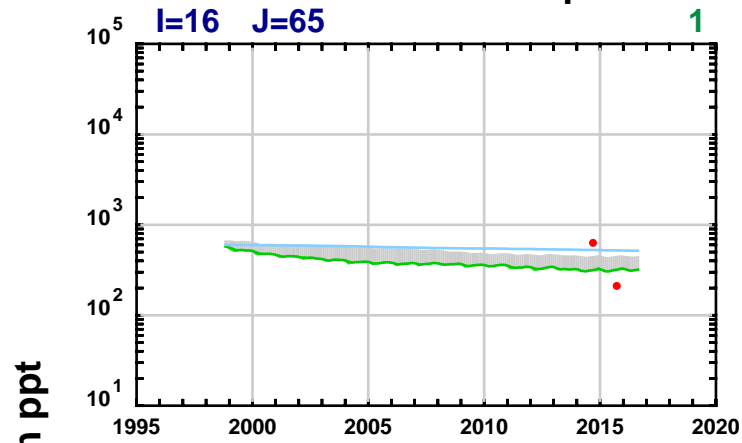
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

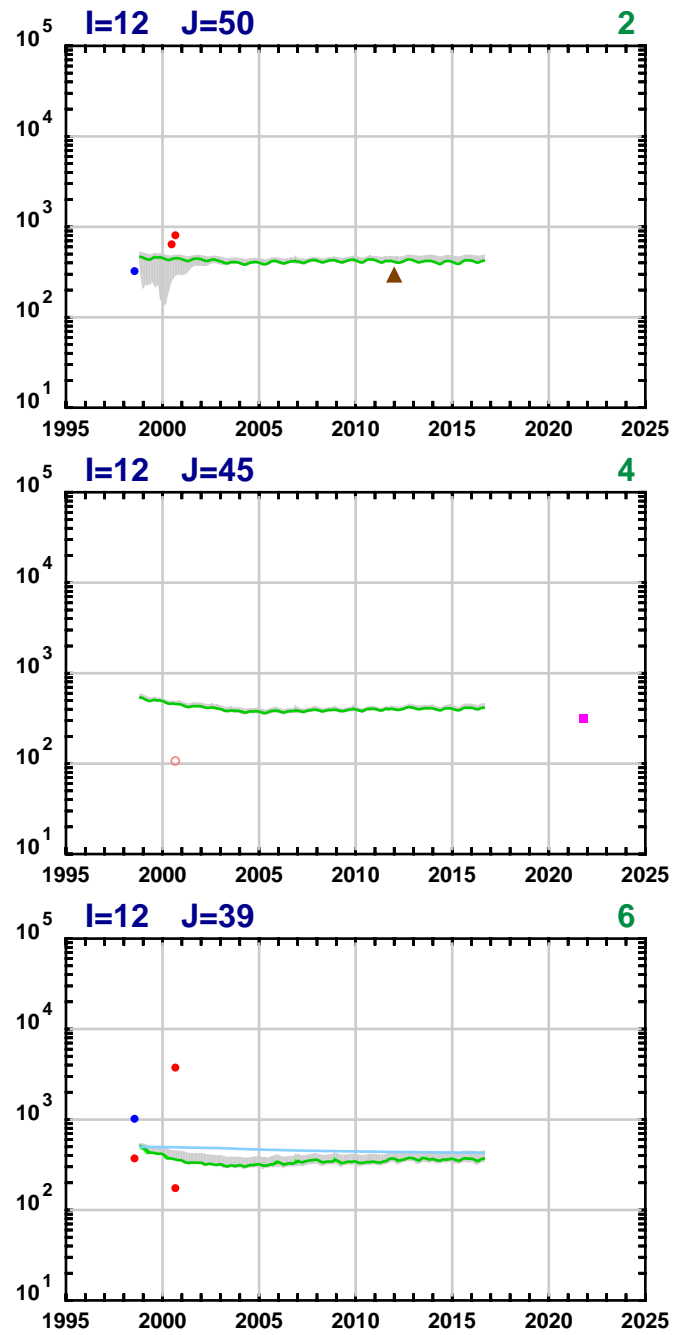
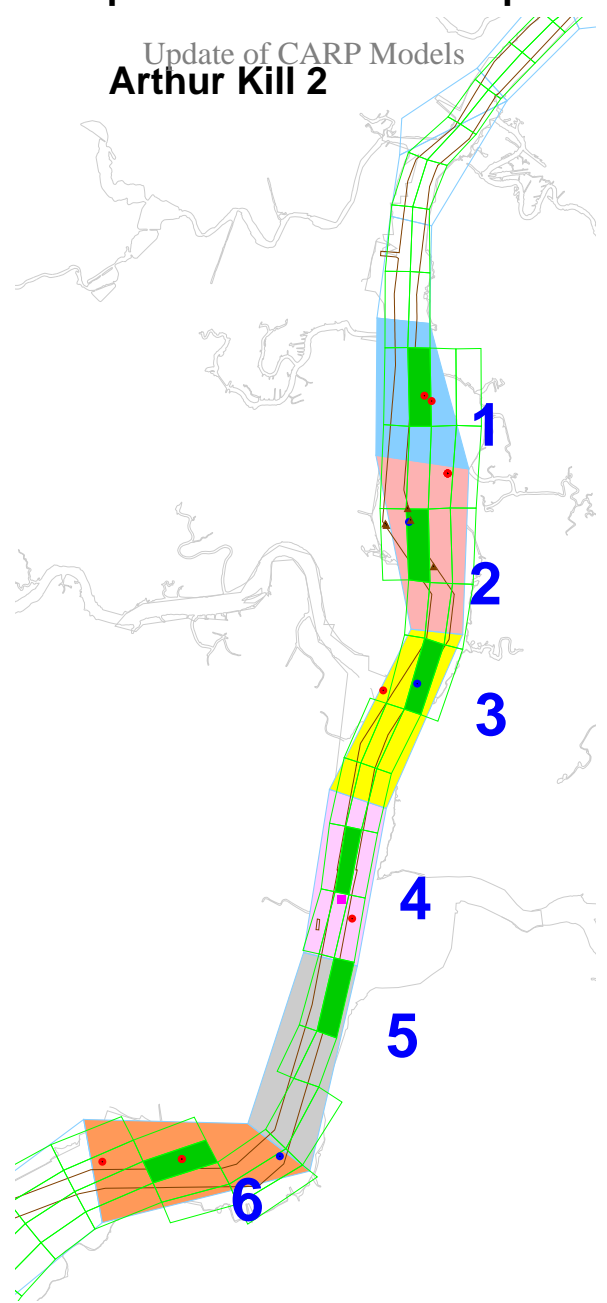
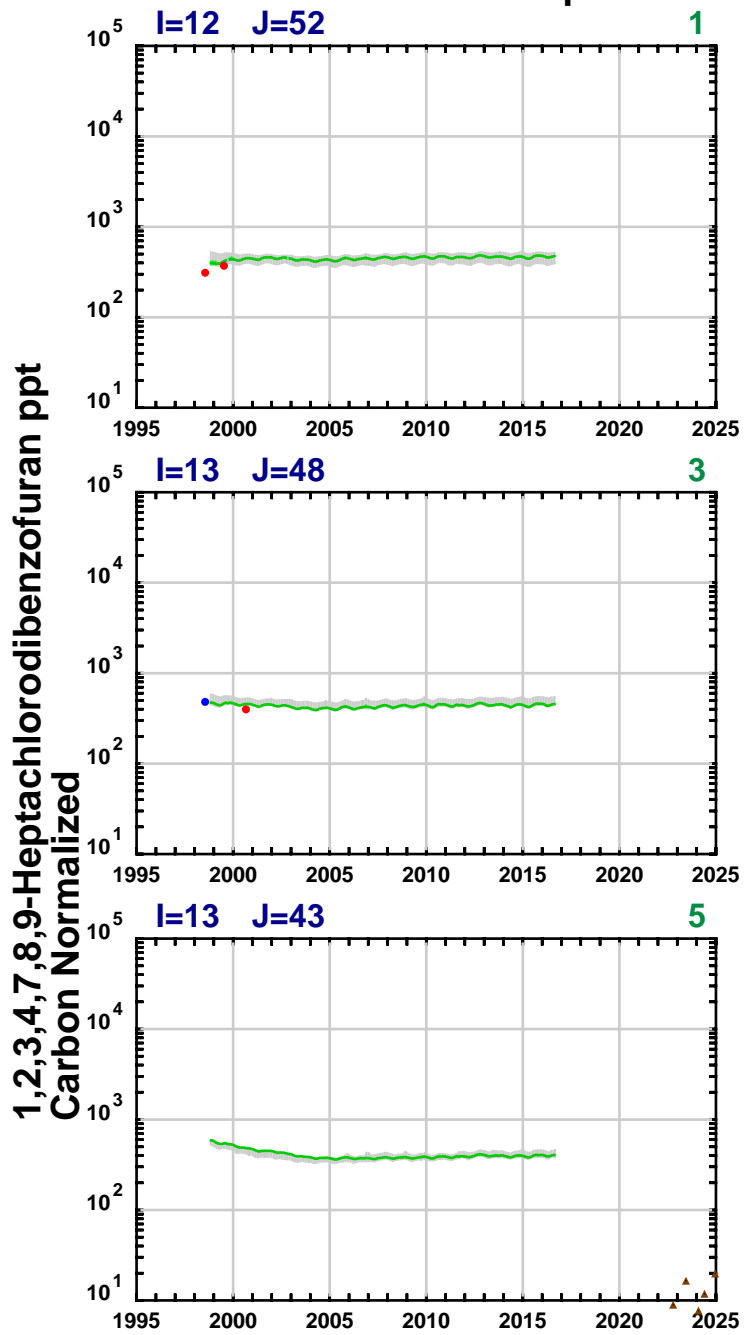


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

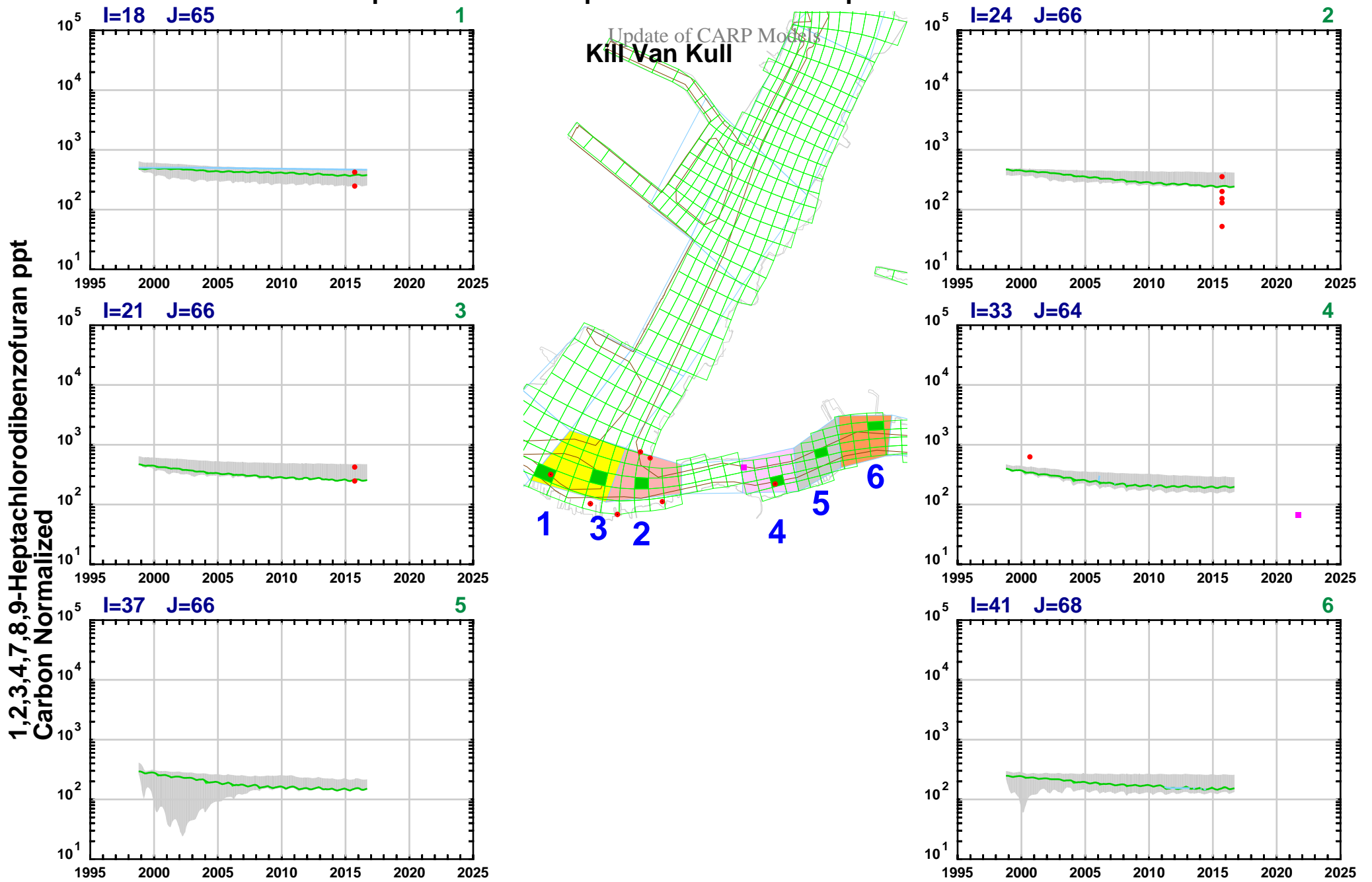


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



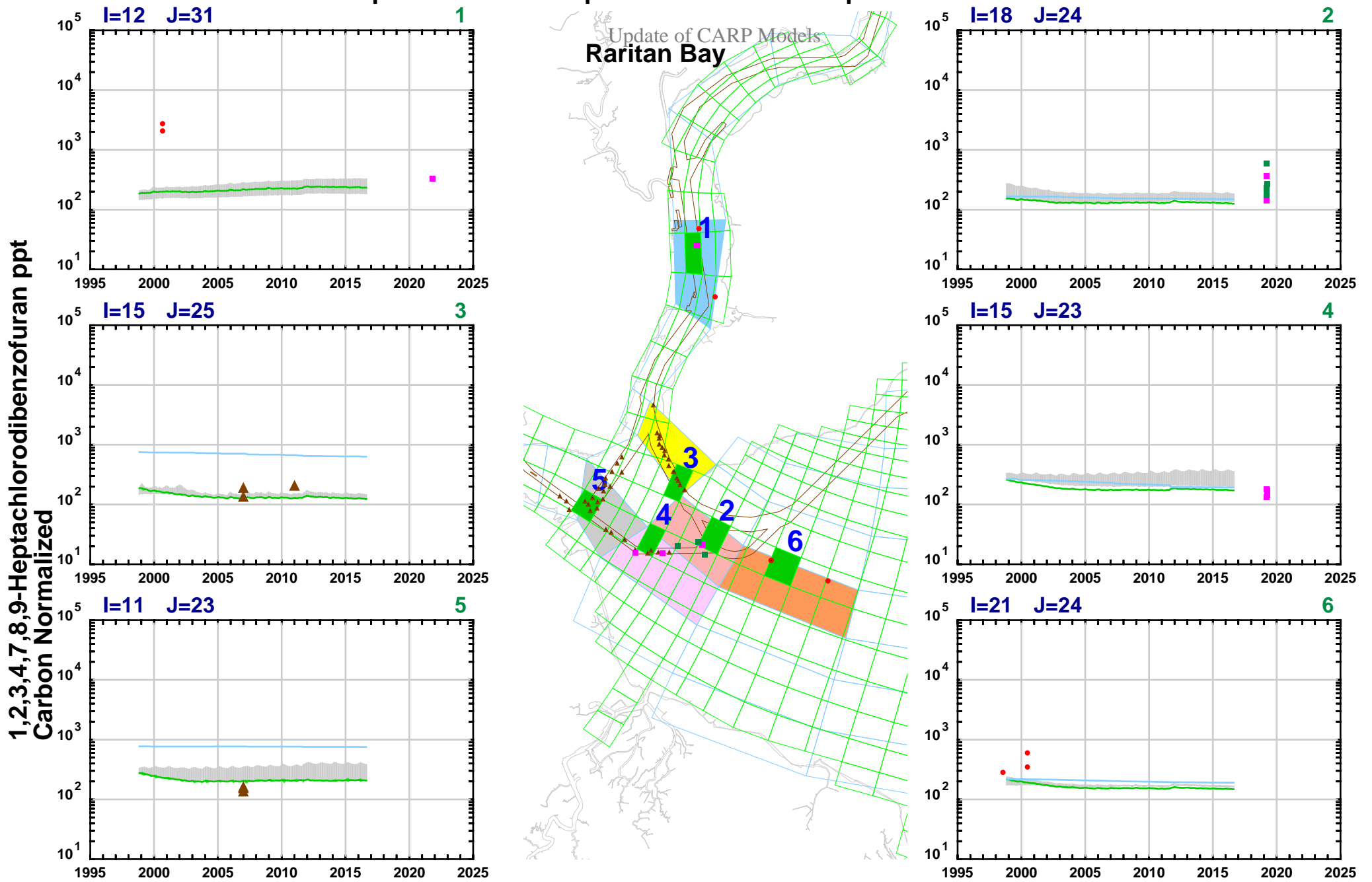
**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

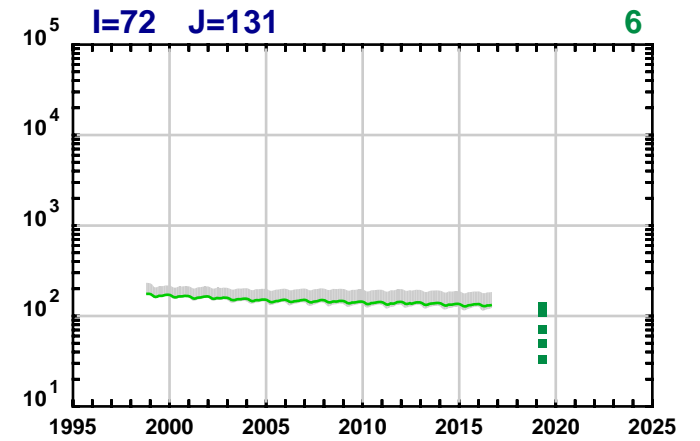
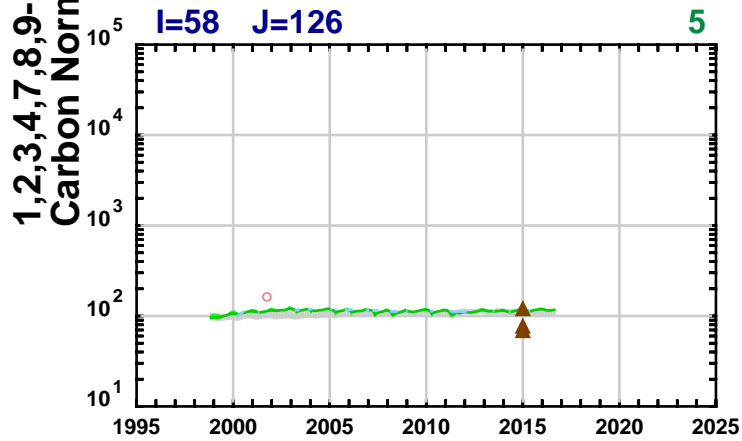
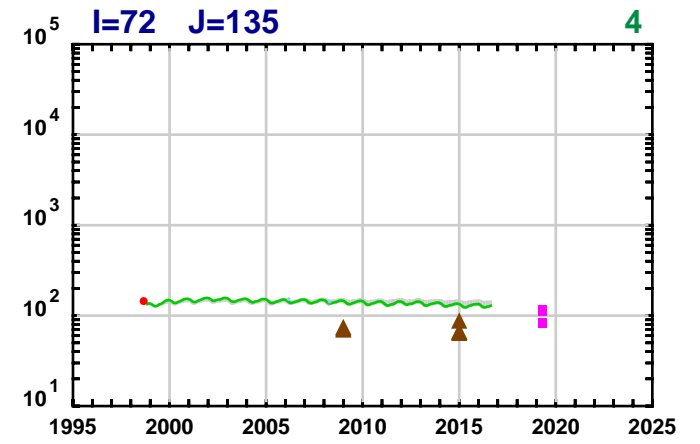
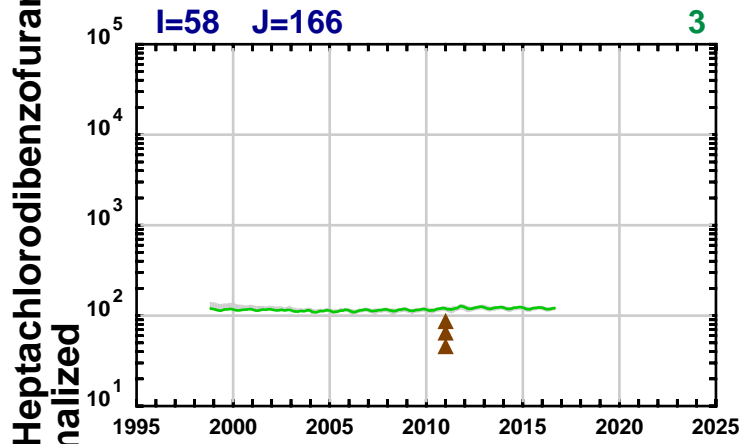
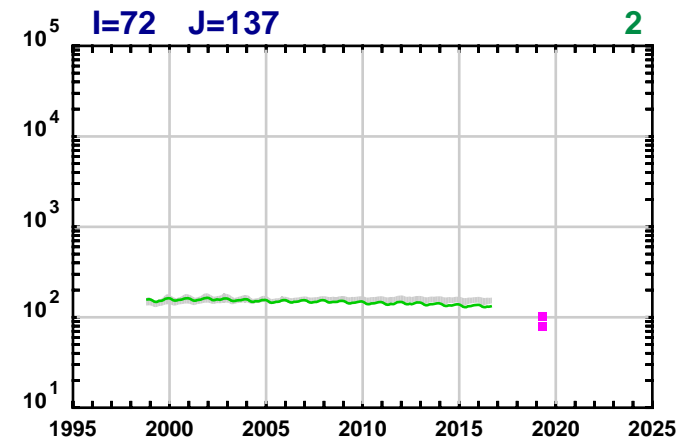
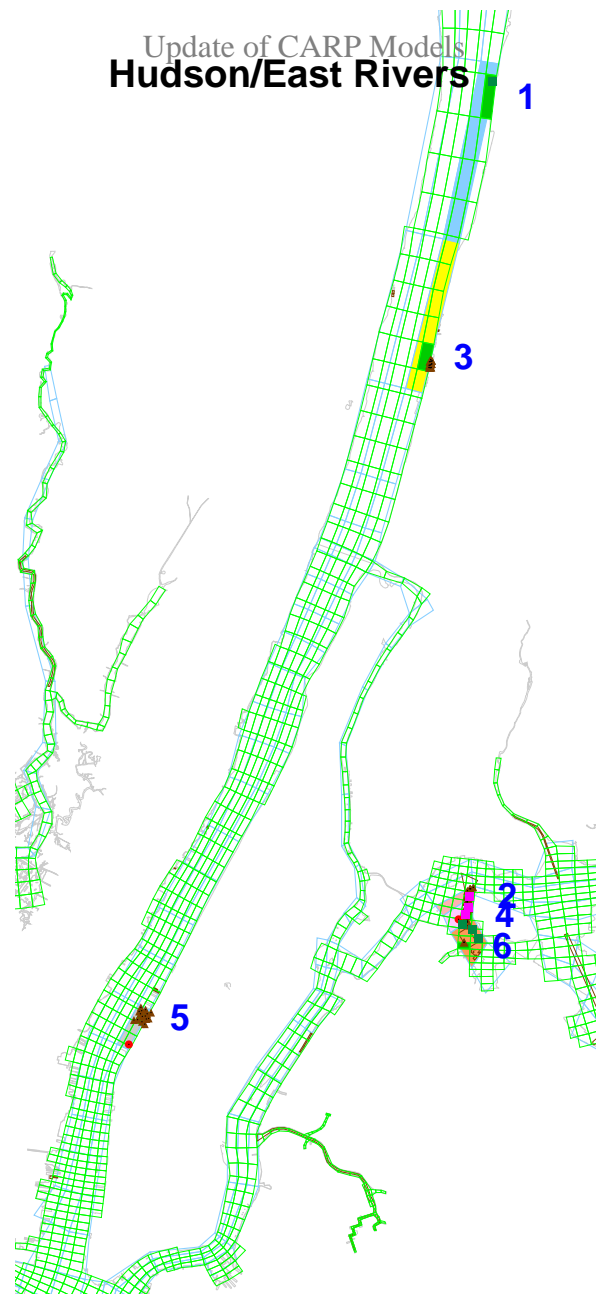
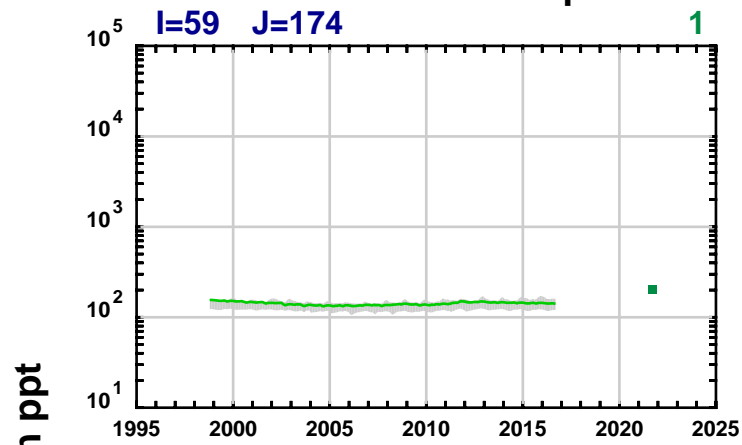


**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data**    **● Off-channel data**    **▲ Dredge data**  
**■ CARP2 In-channel**    **■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

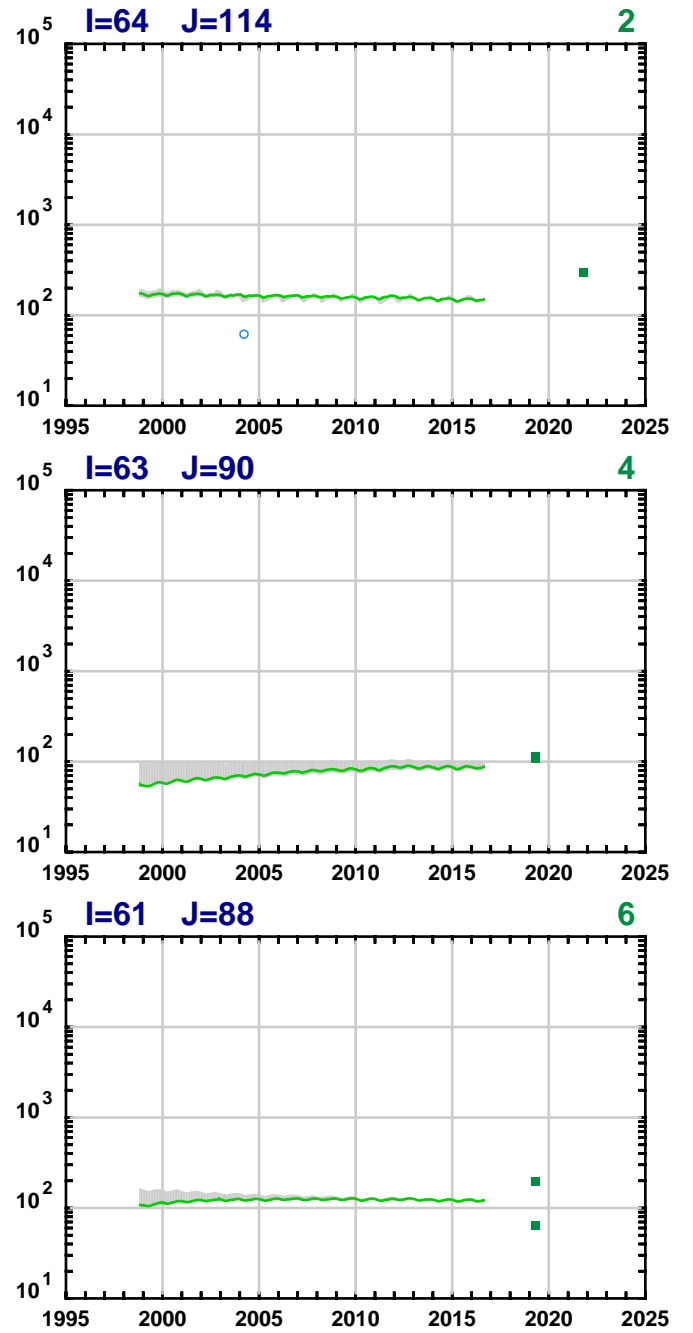
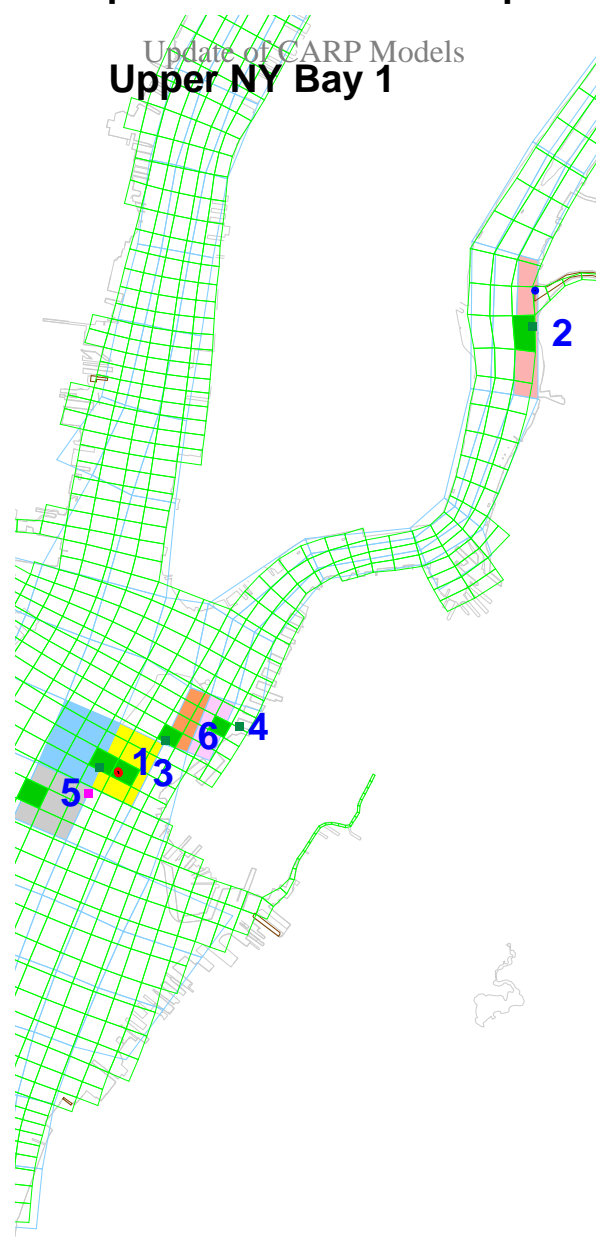
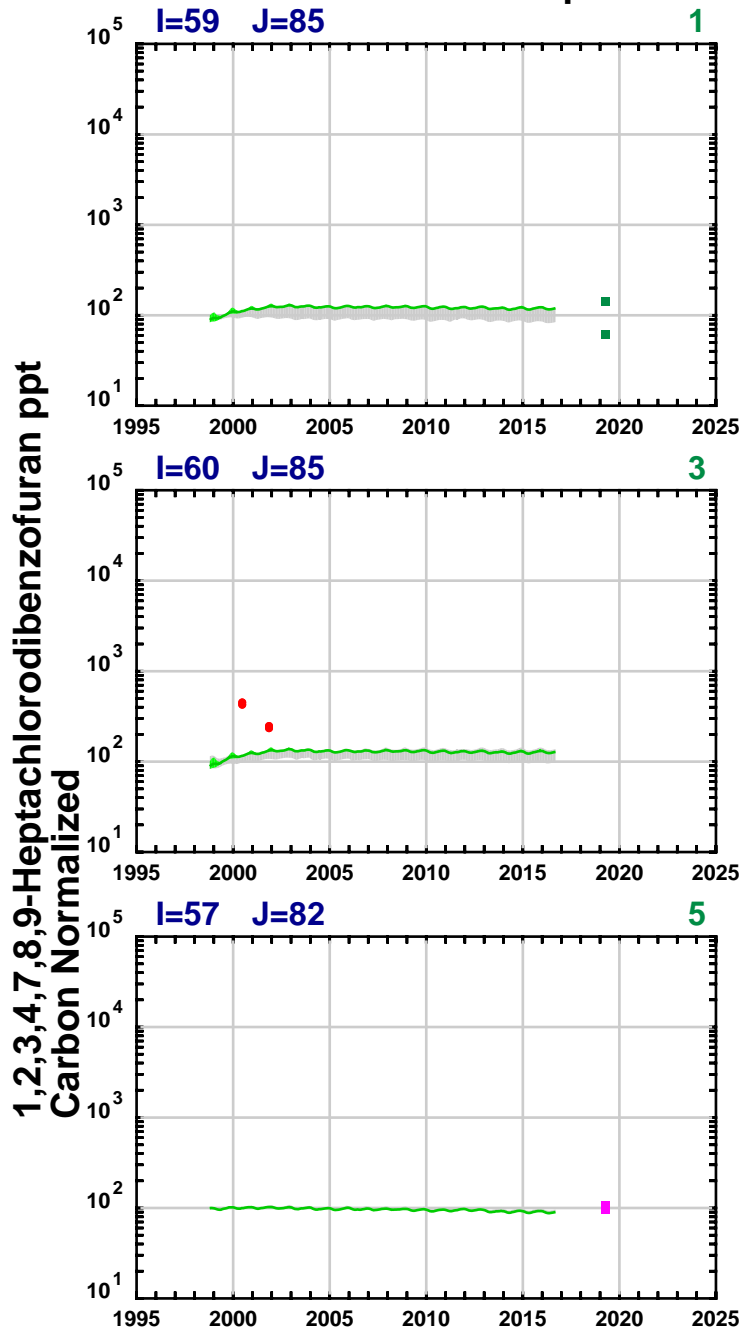


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

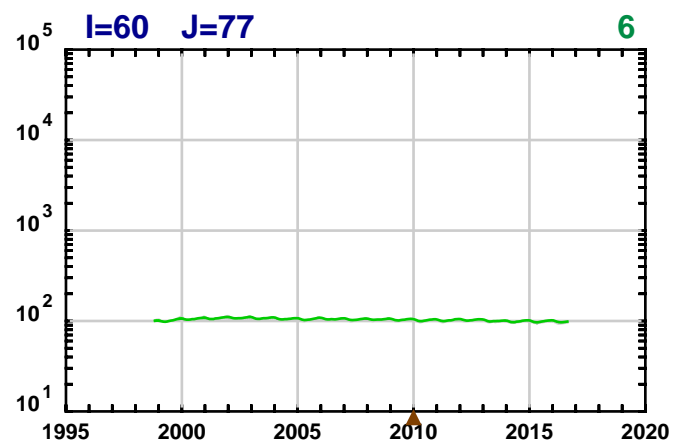
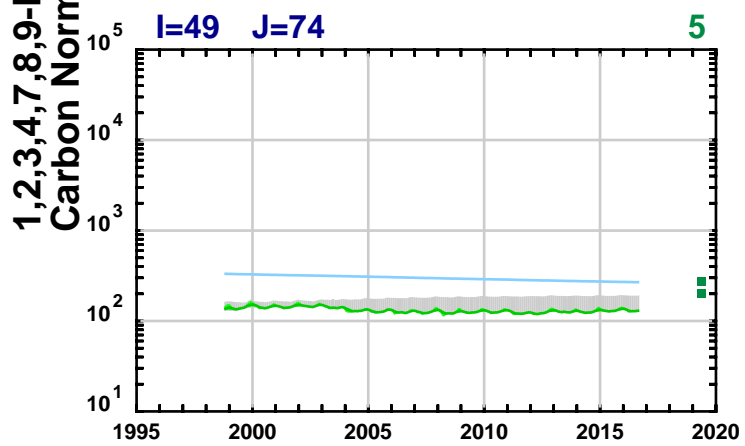
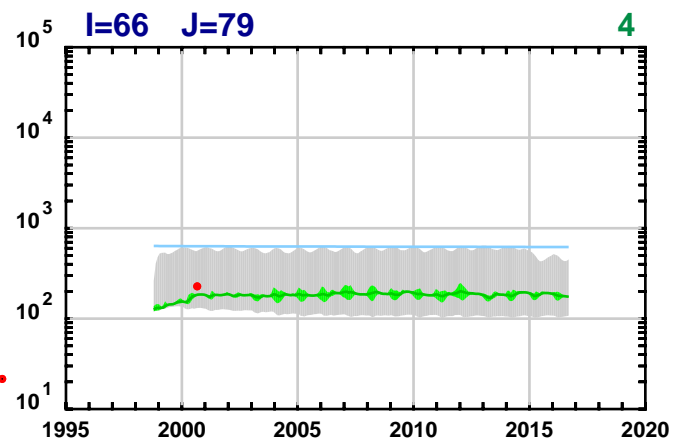
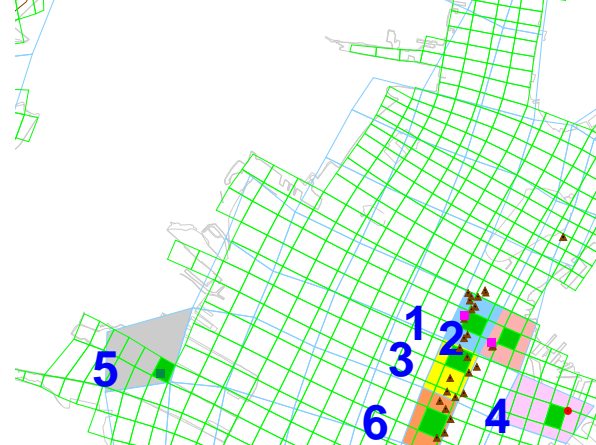
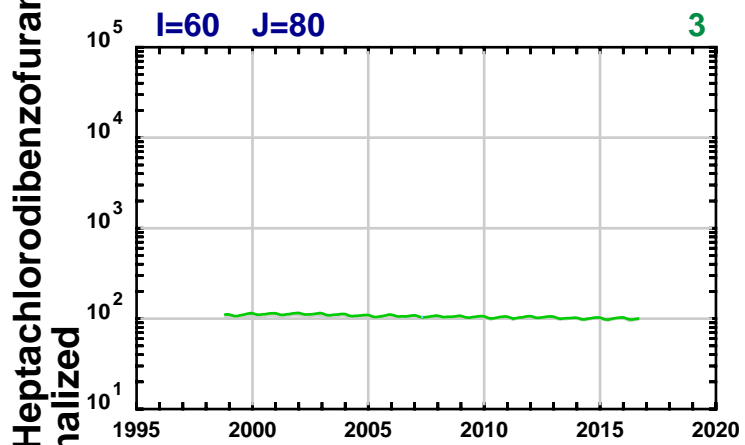
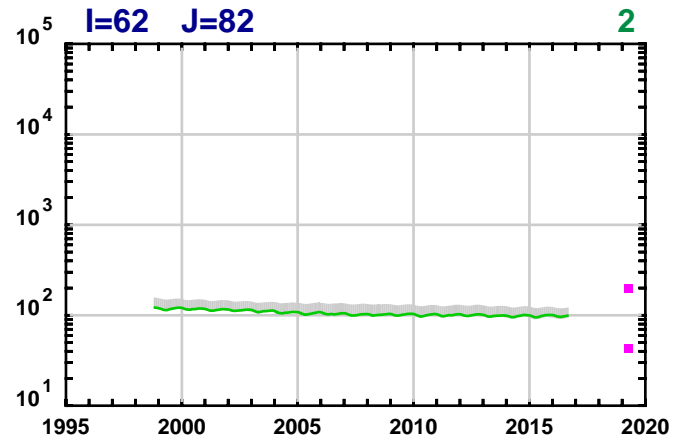
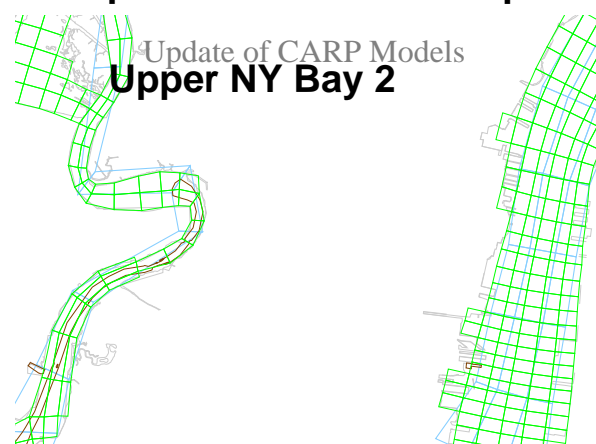
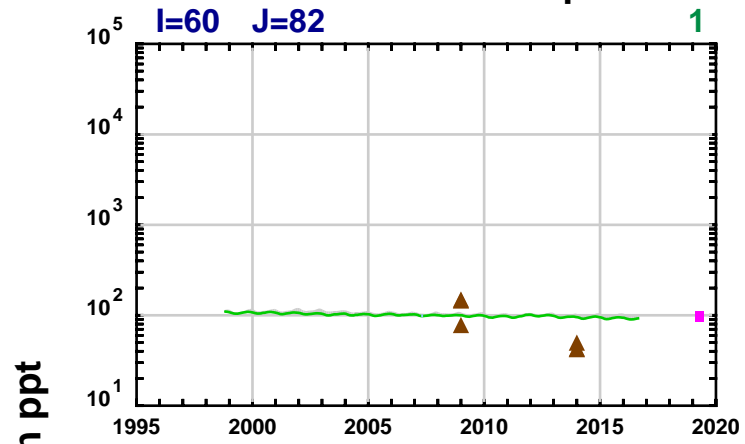


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

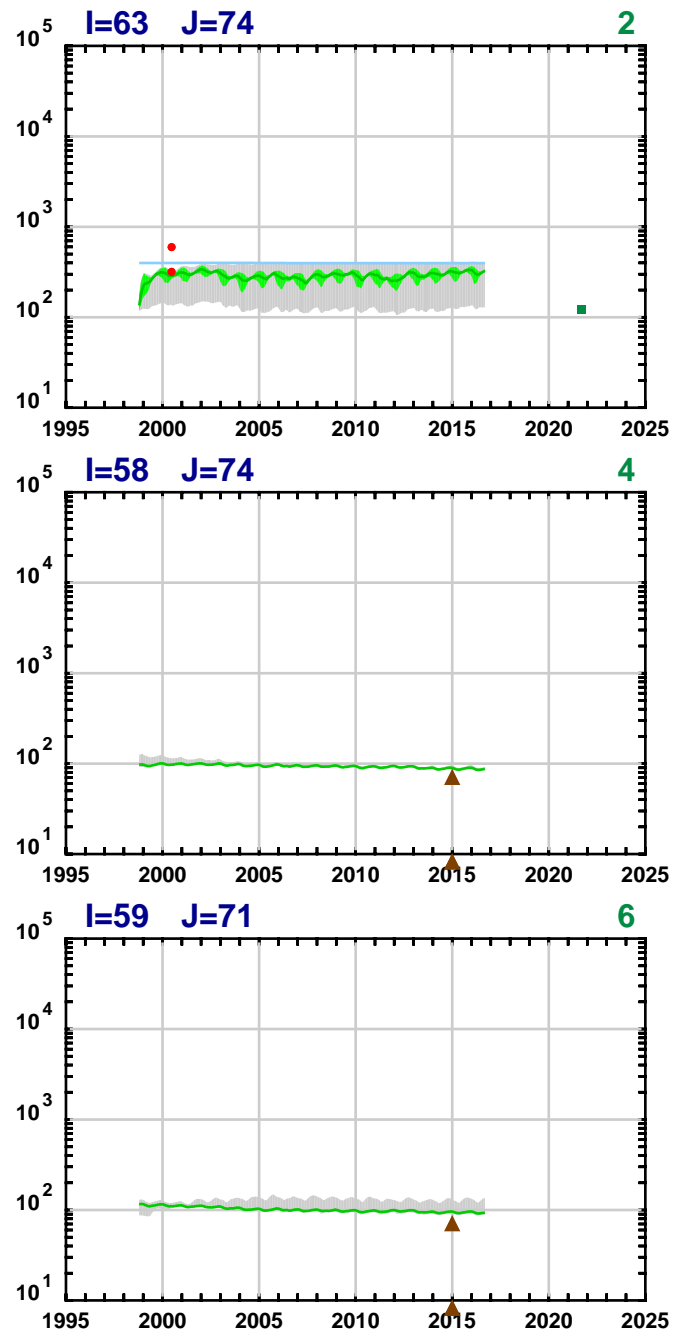
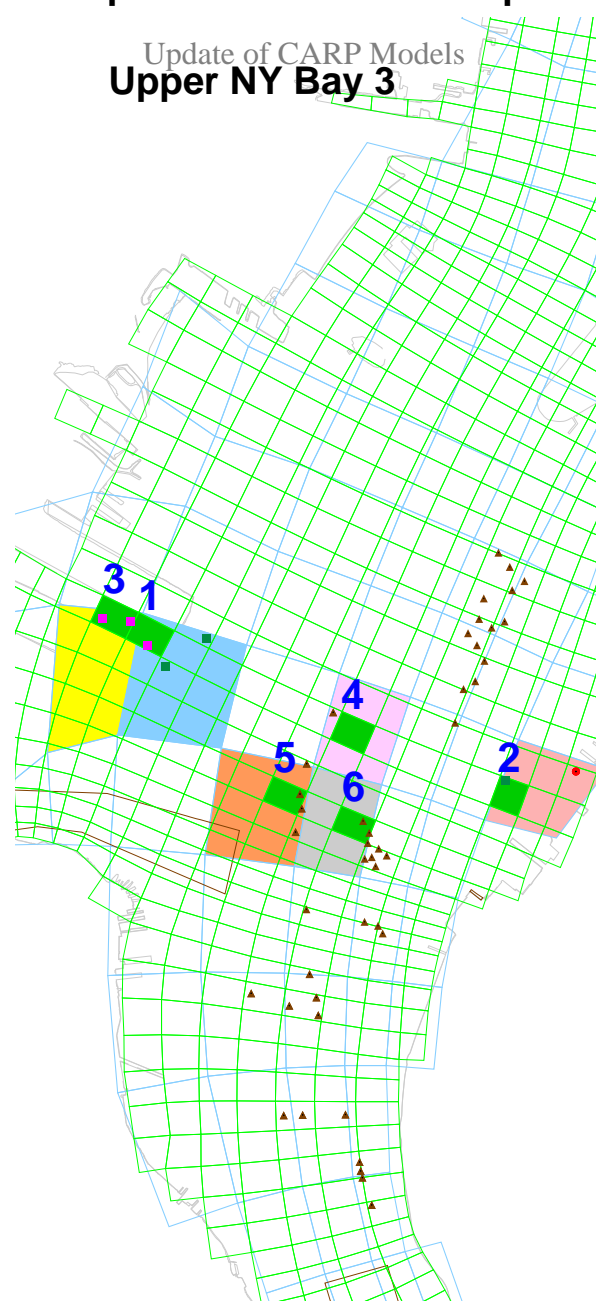
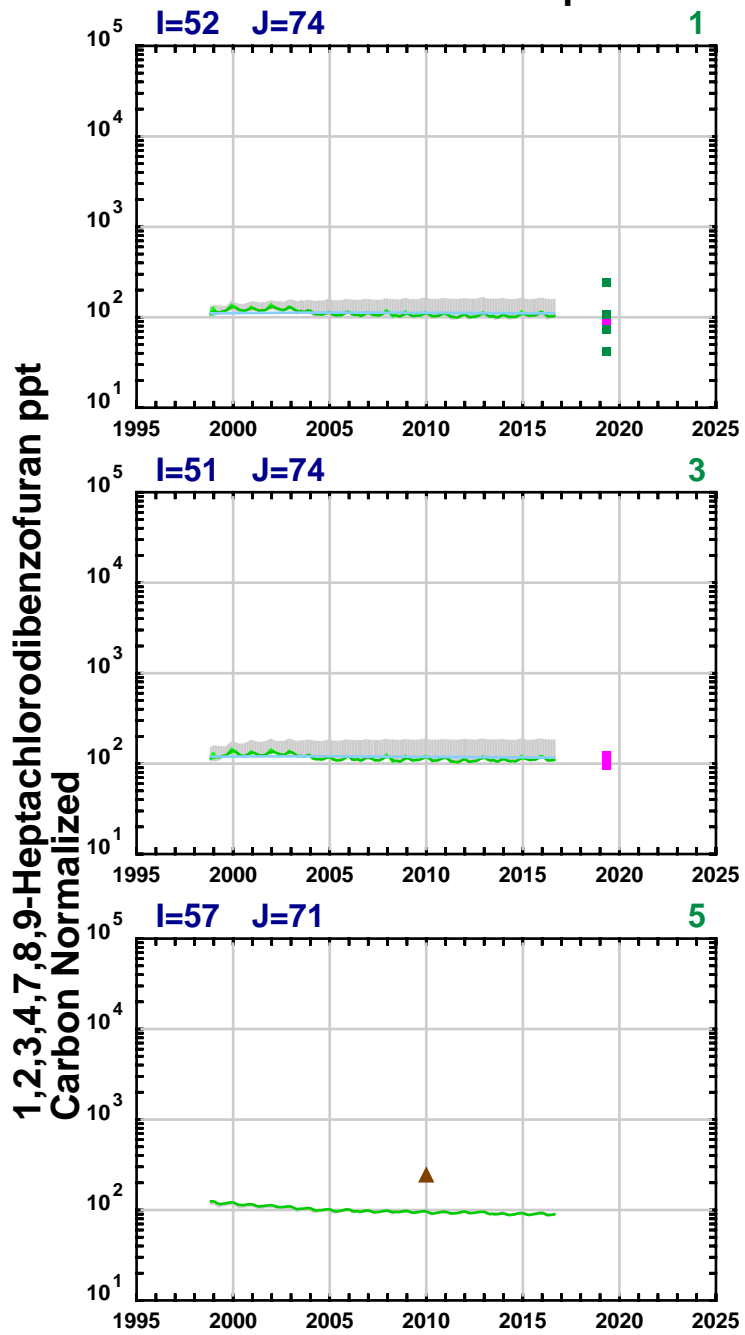


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

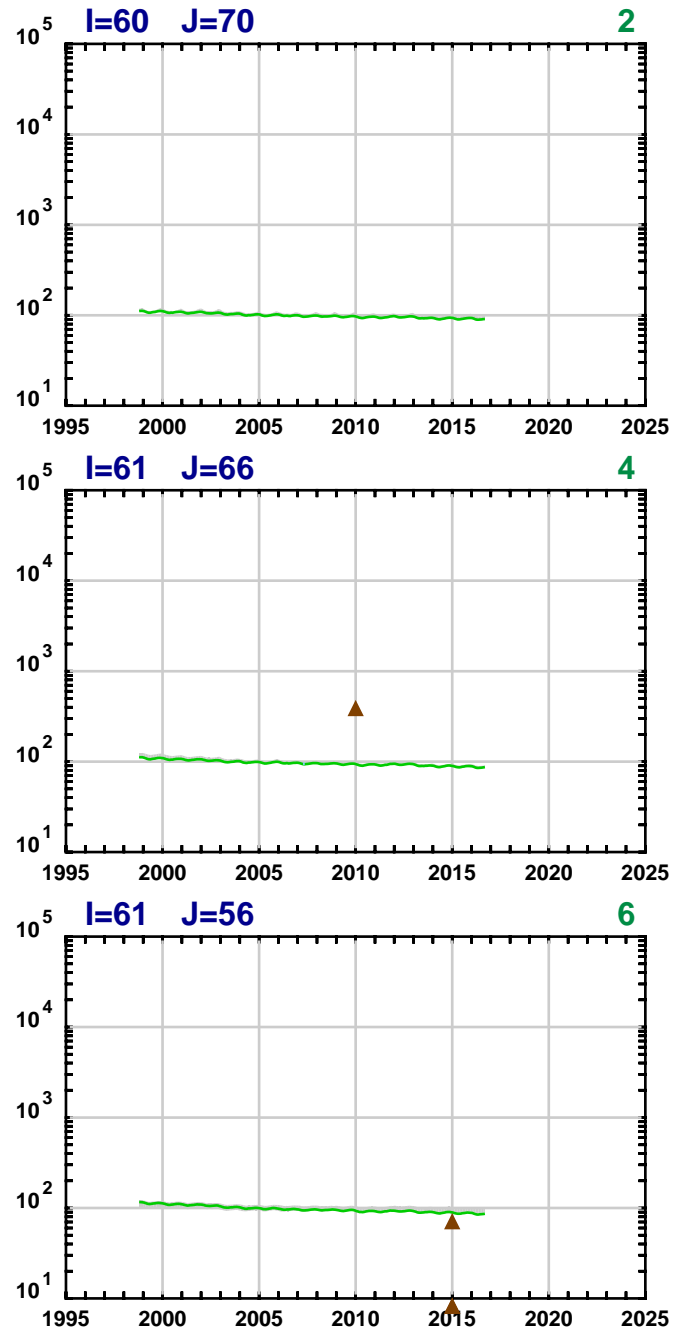
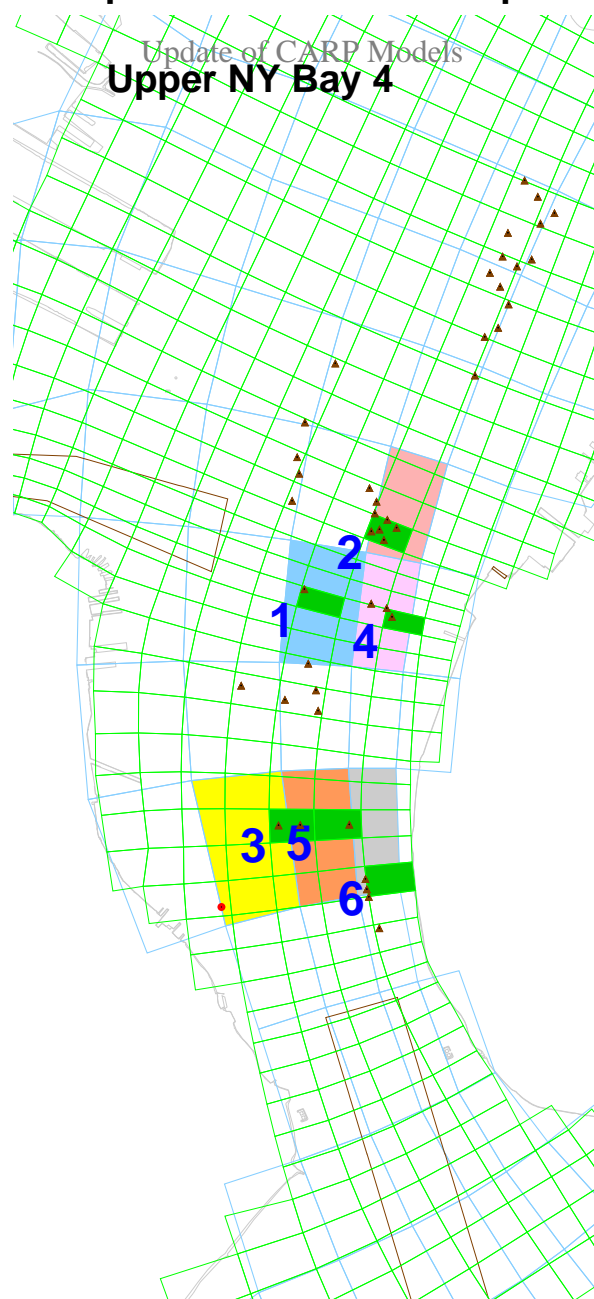
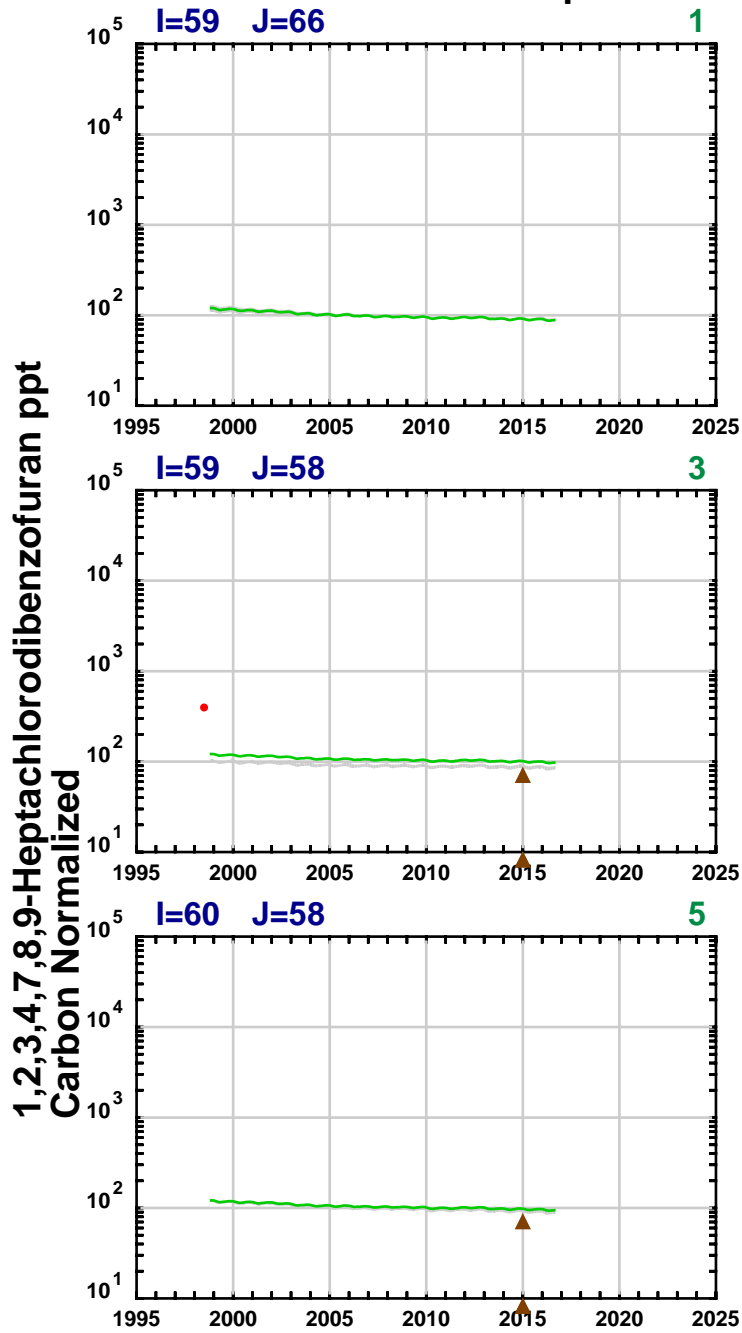


RUN18\_S4\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



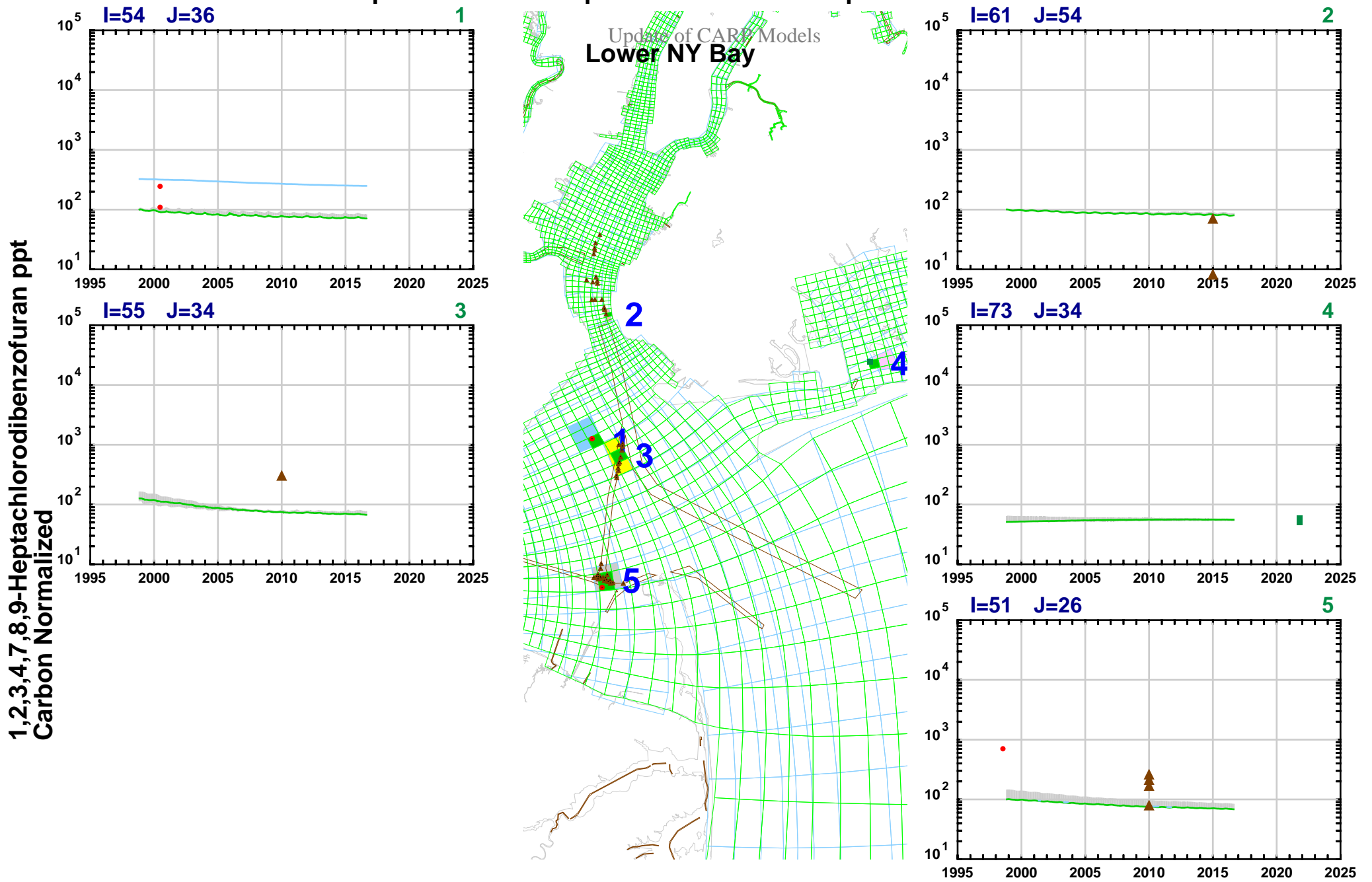
RUN18\_S4\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



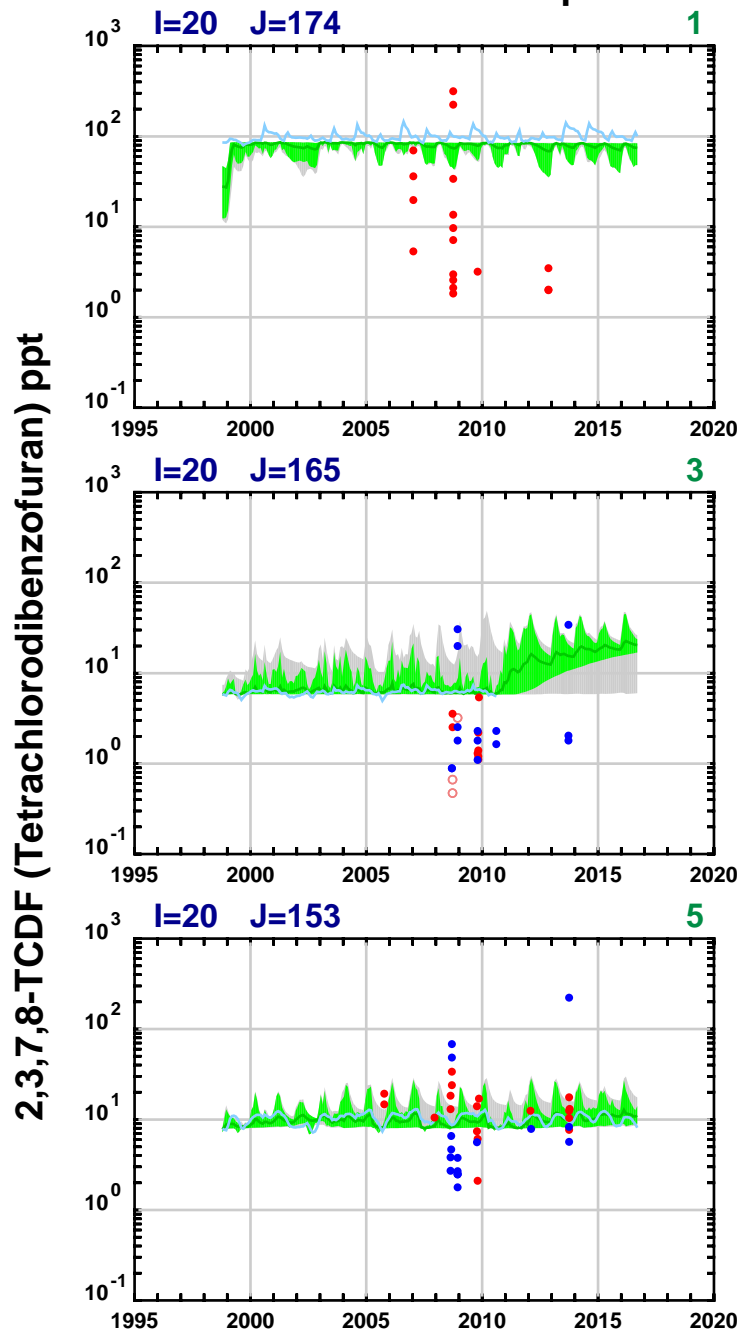
**RUN18\_S4\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

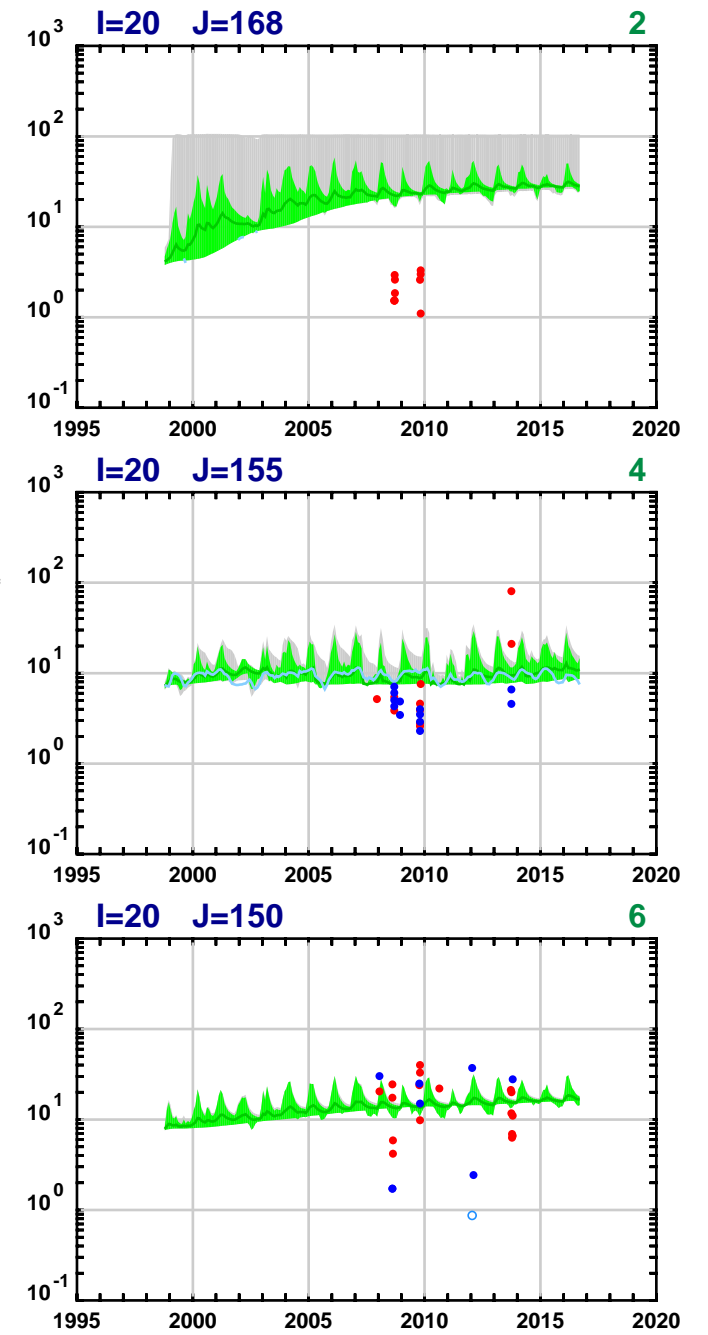
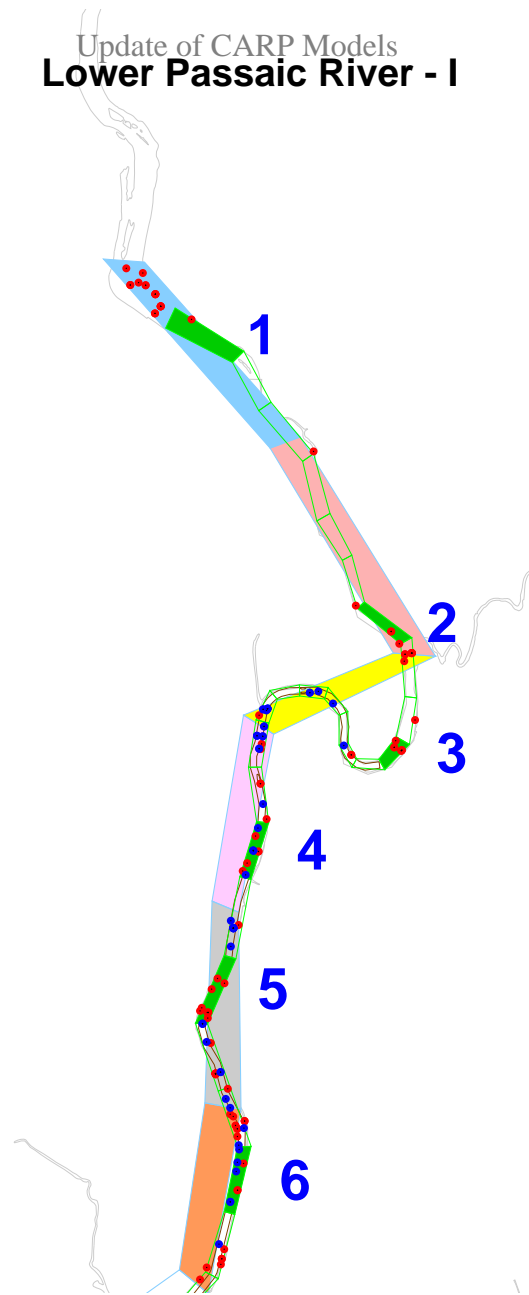
**● In-channel data ● Off-channel data ▲ Dredge data**  
**■ CARP2 In-channel ■ CARP2 Off-channel**



# Top 15 cm data comparison with model top 10 cm sediment



## Update of CARP Models Lower Passaic River - I

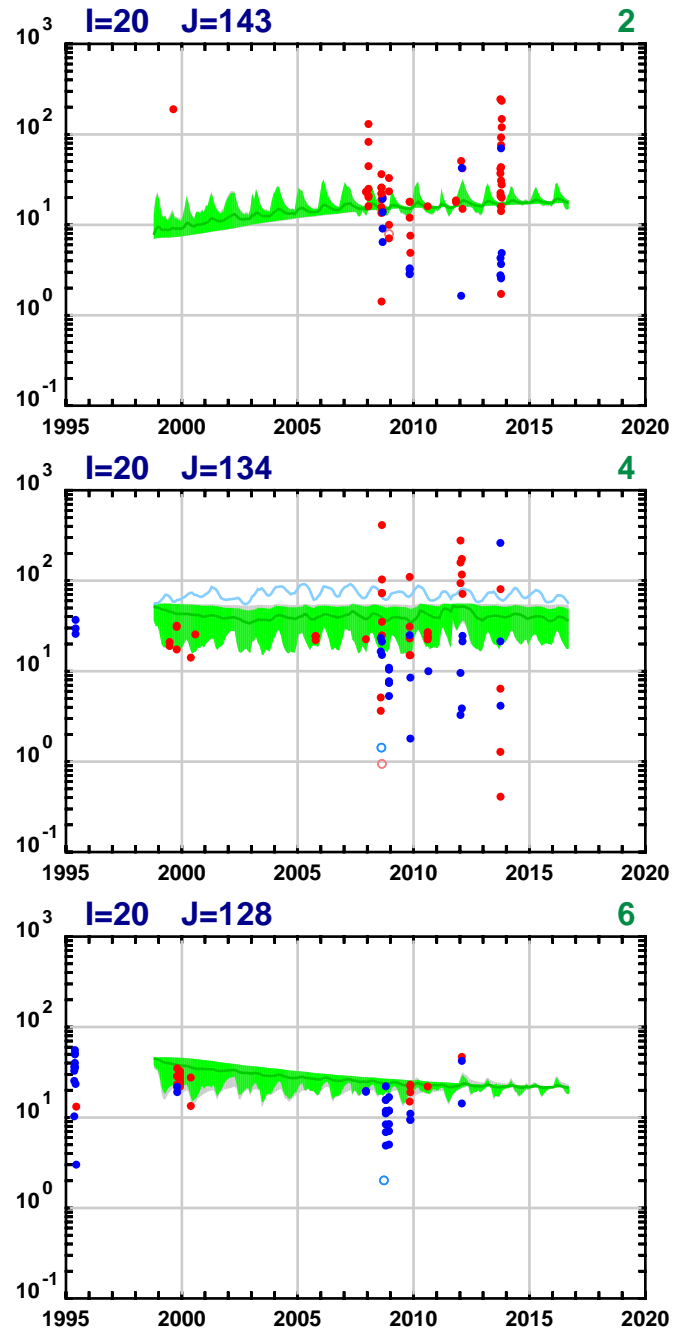
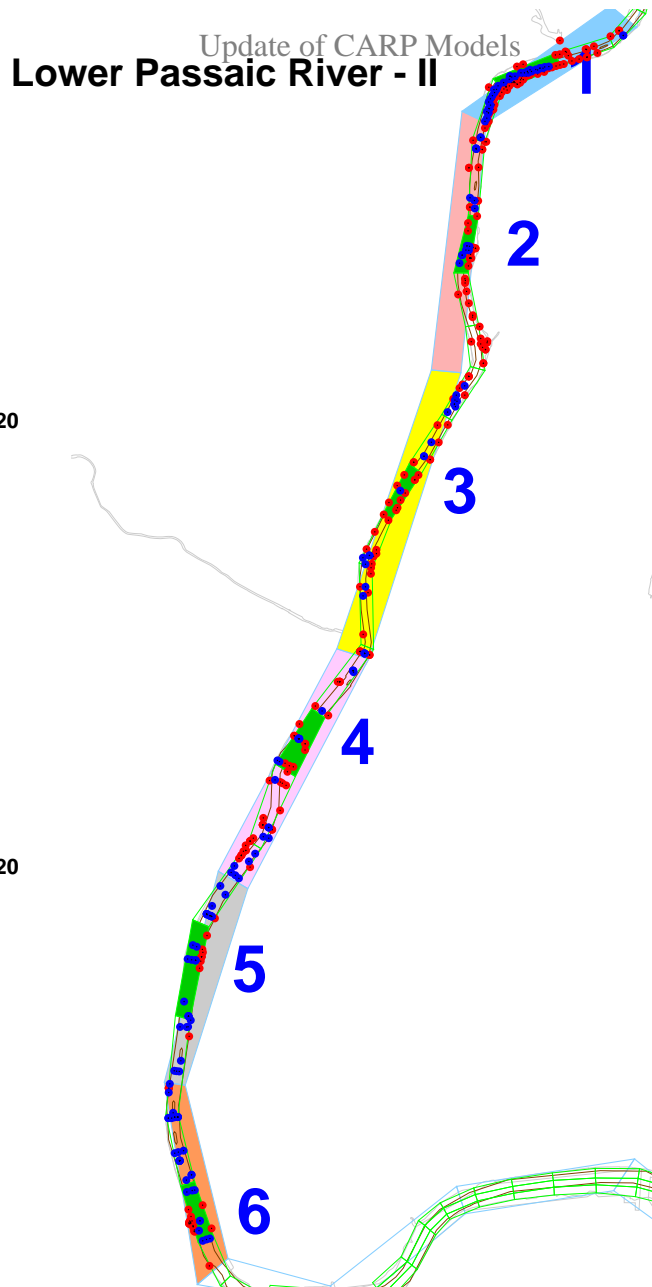
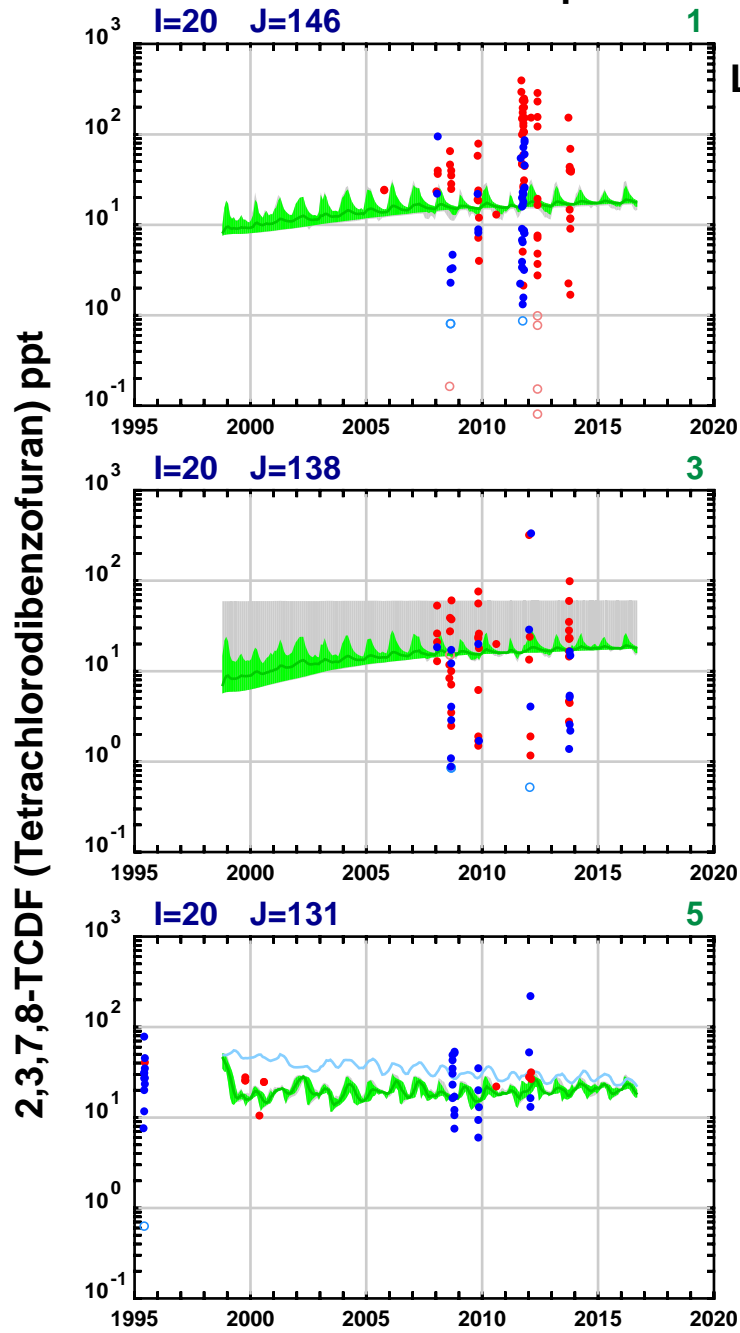


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

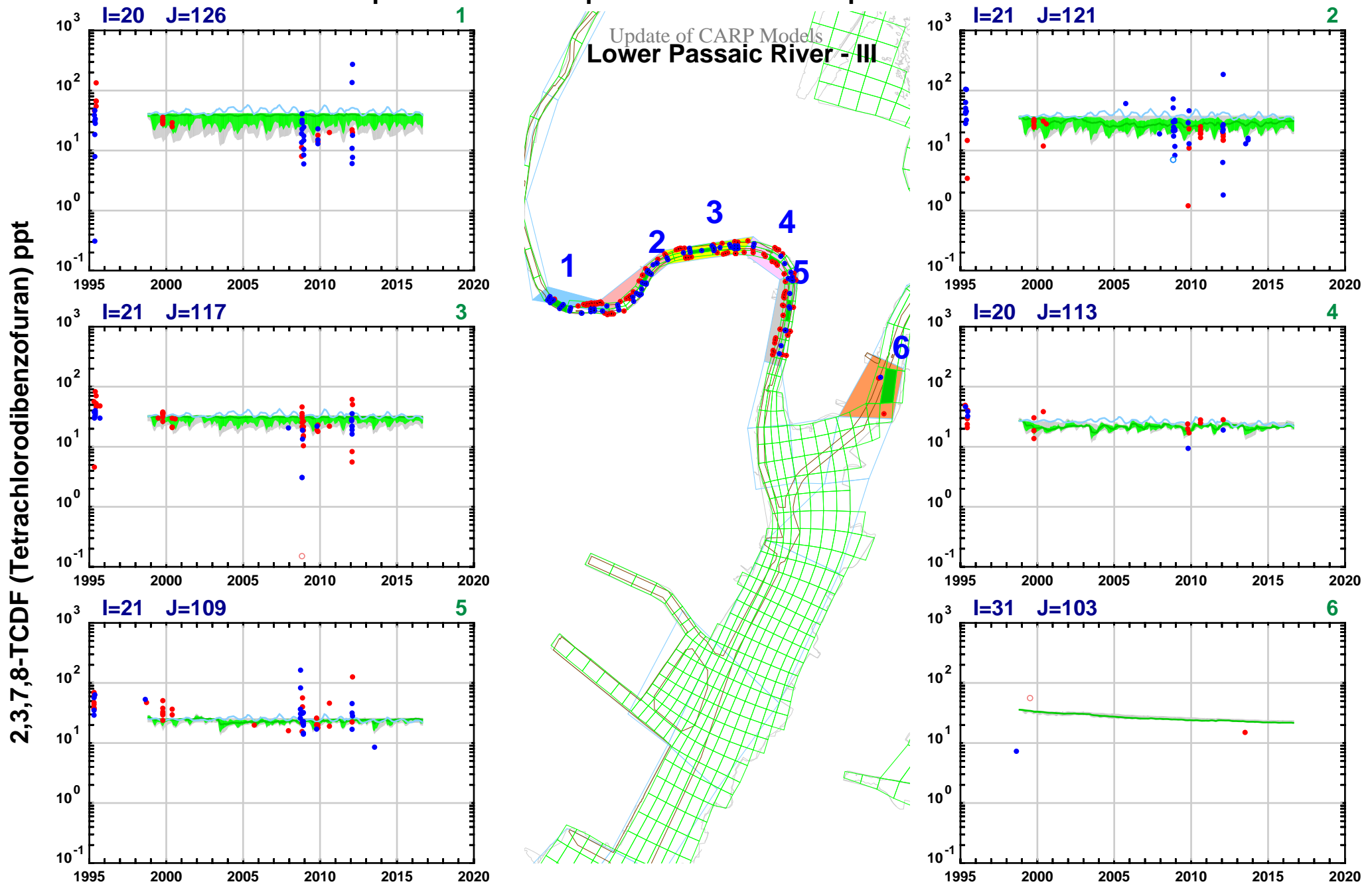


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



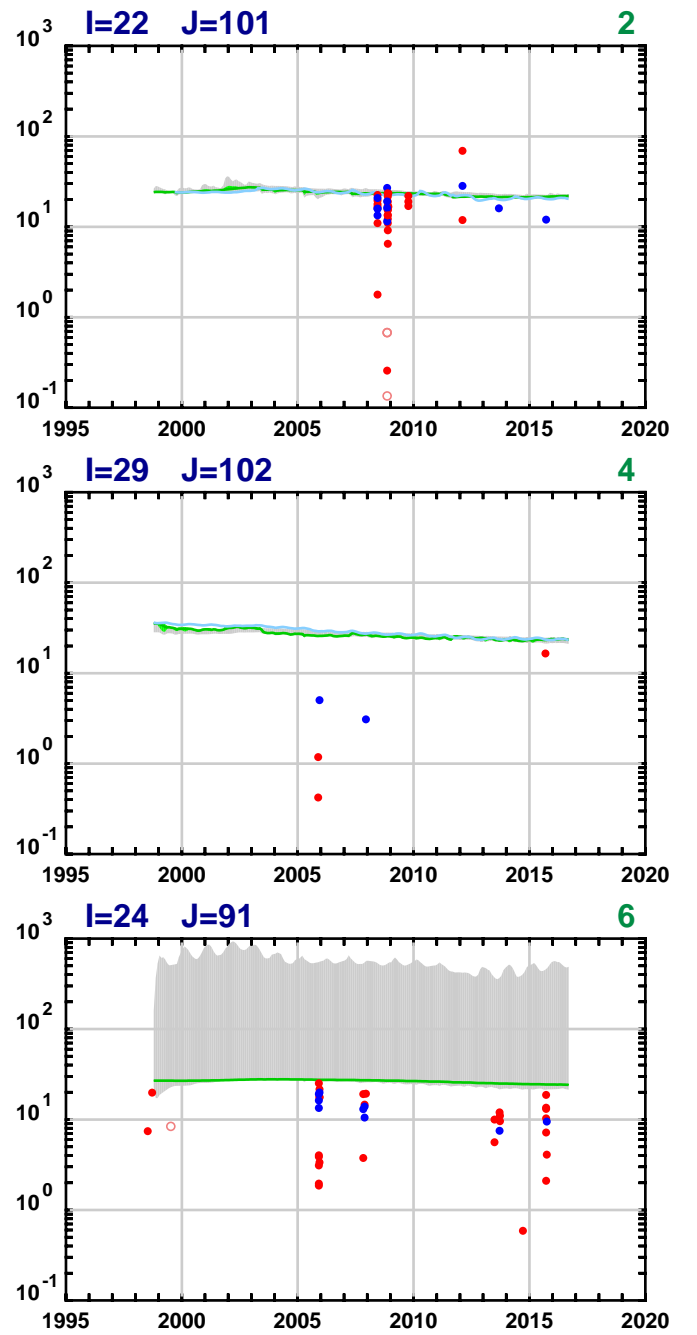
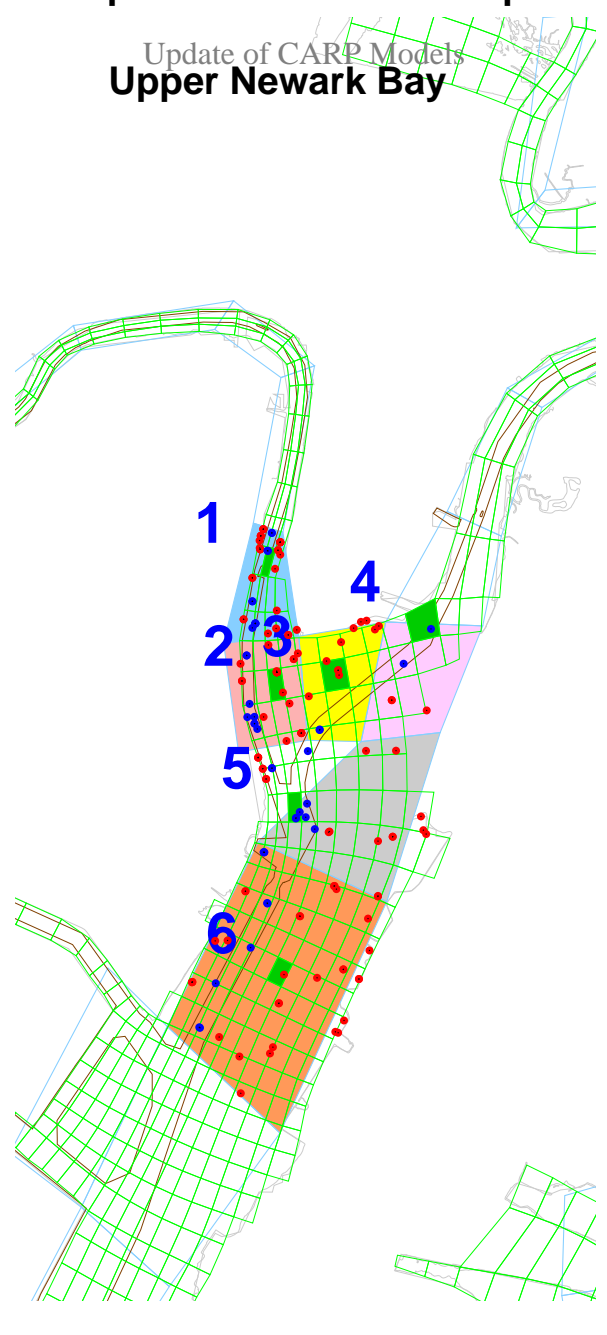
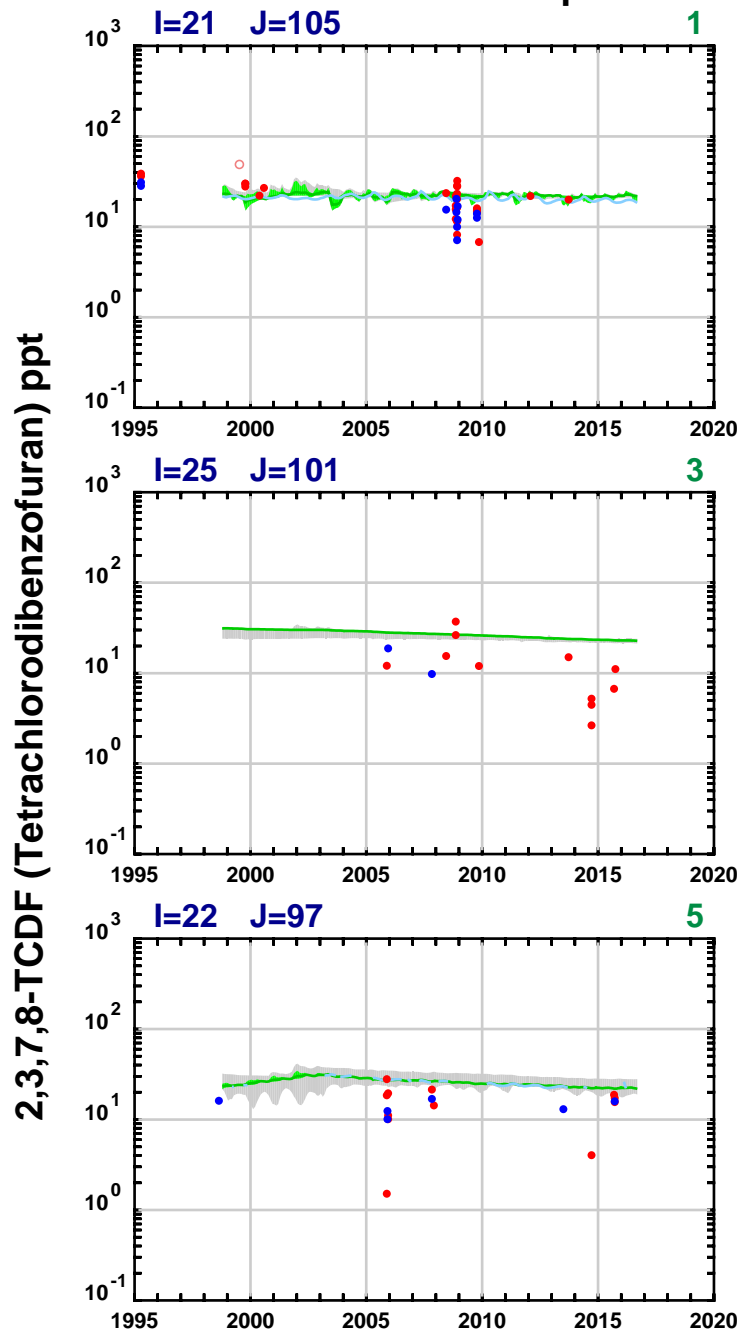
Update of CARP Models  
Lower Passaic River - III

RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

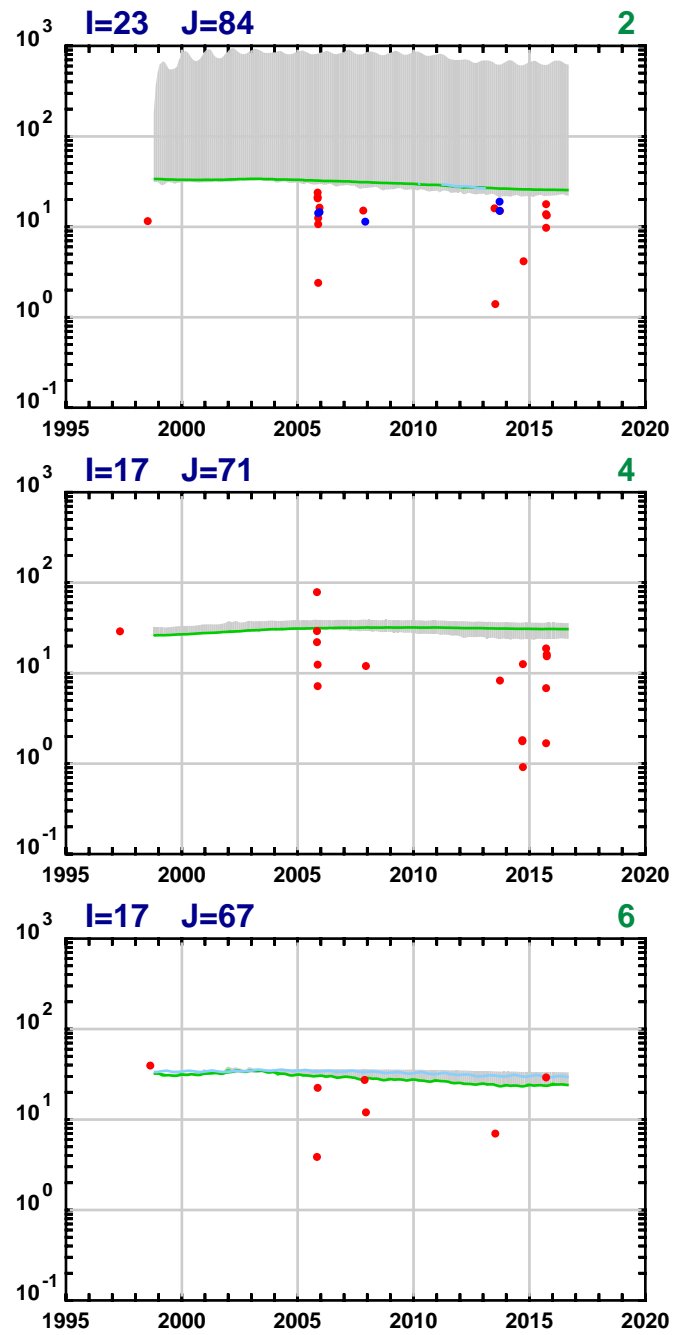
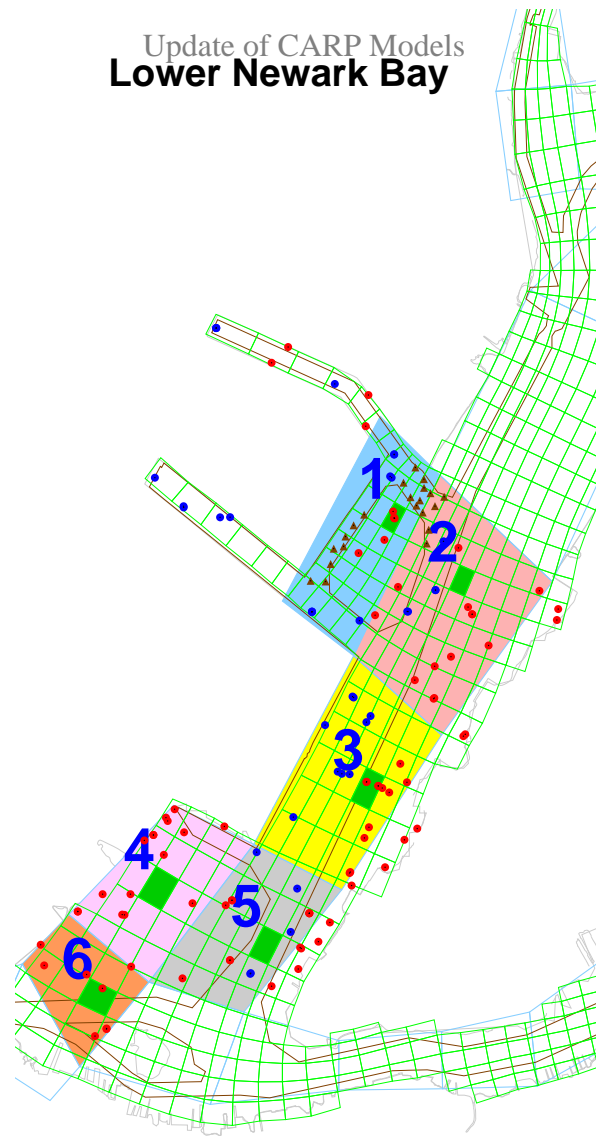
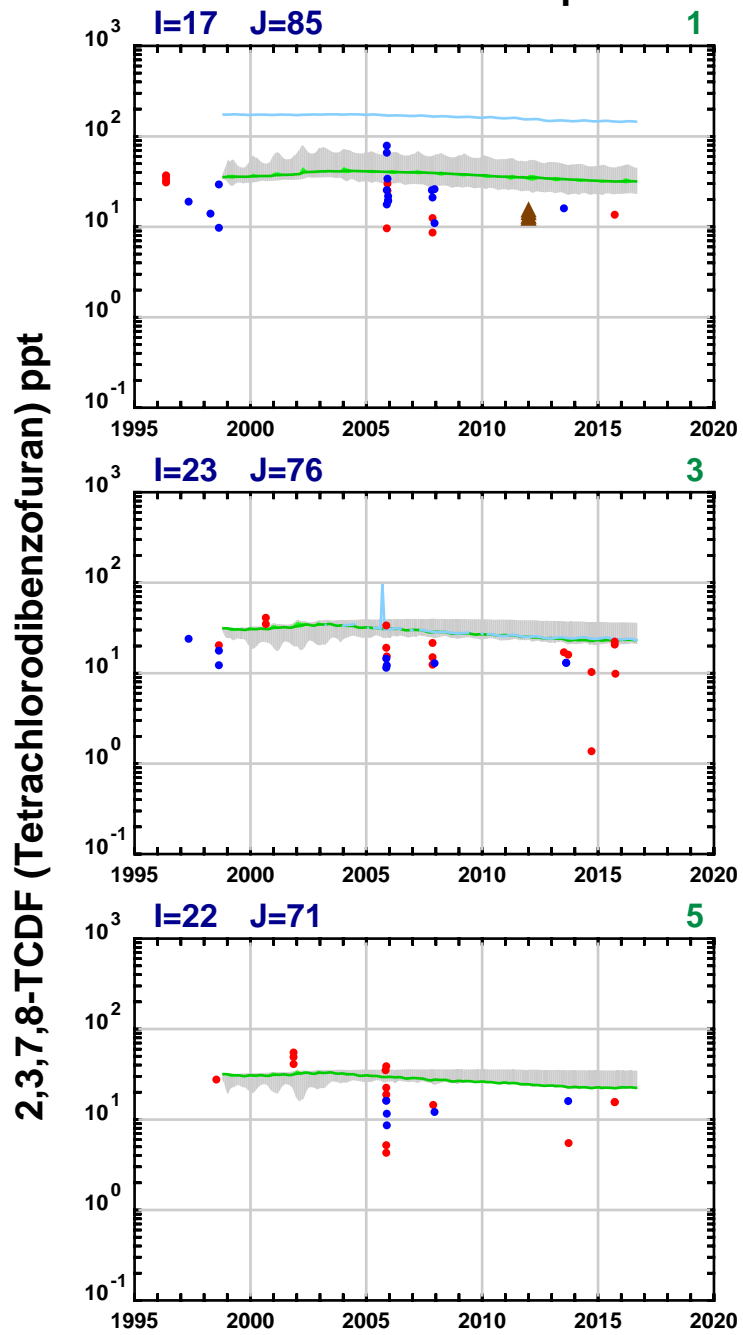


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

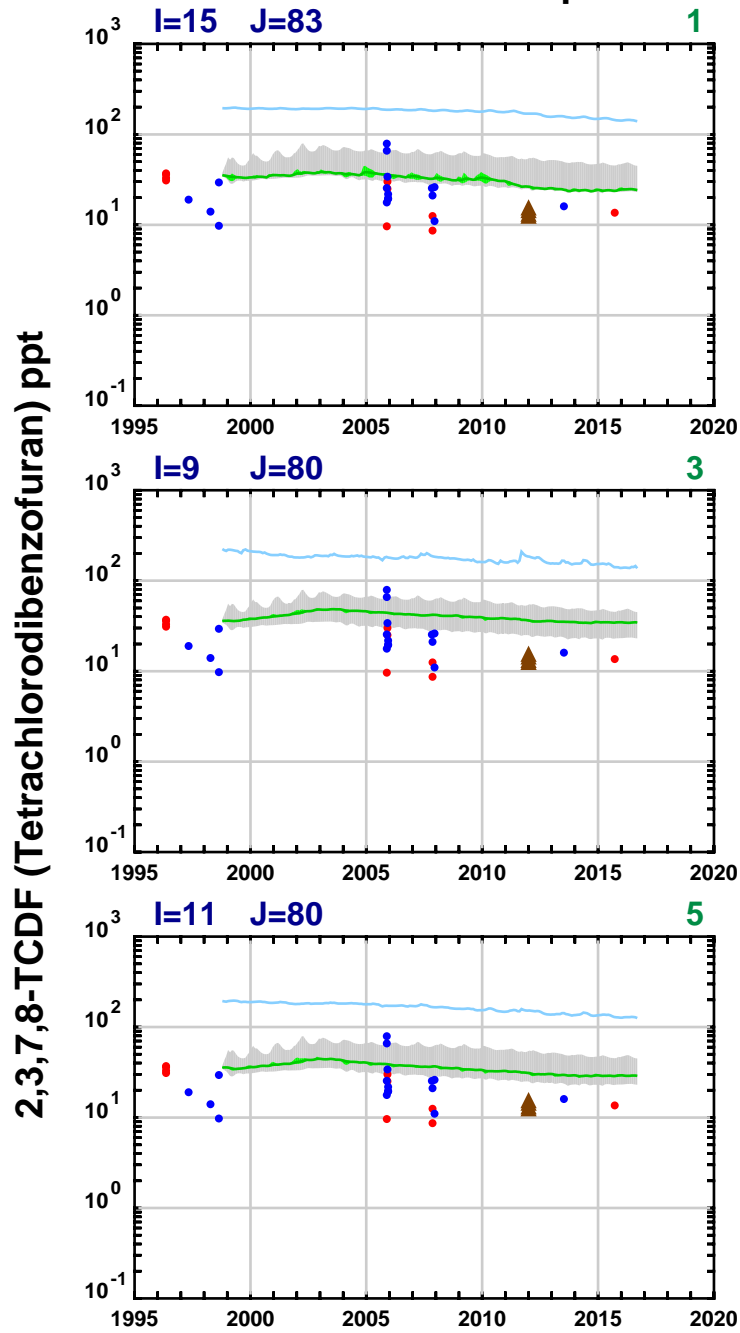


RUN18\_S5\_R2

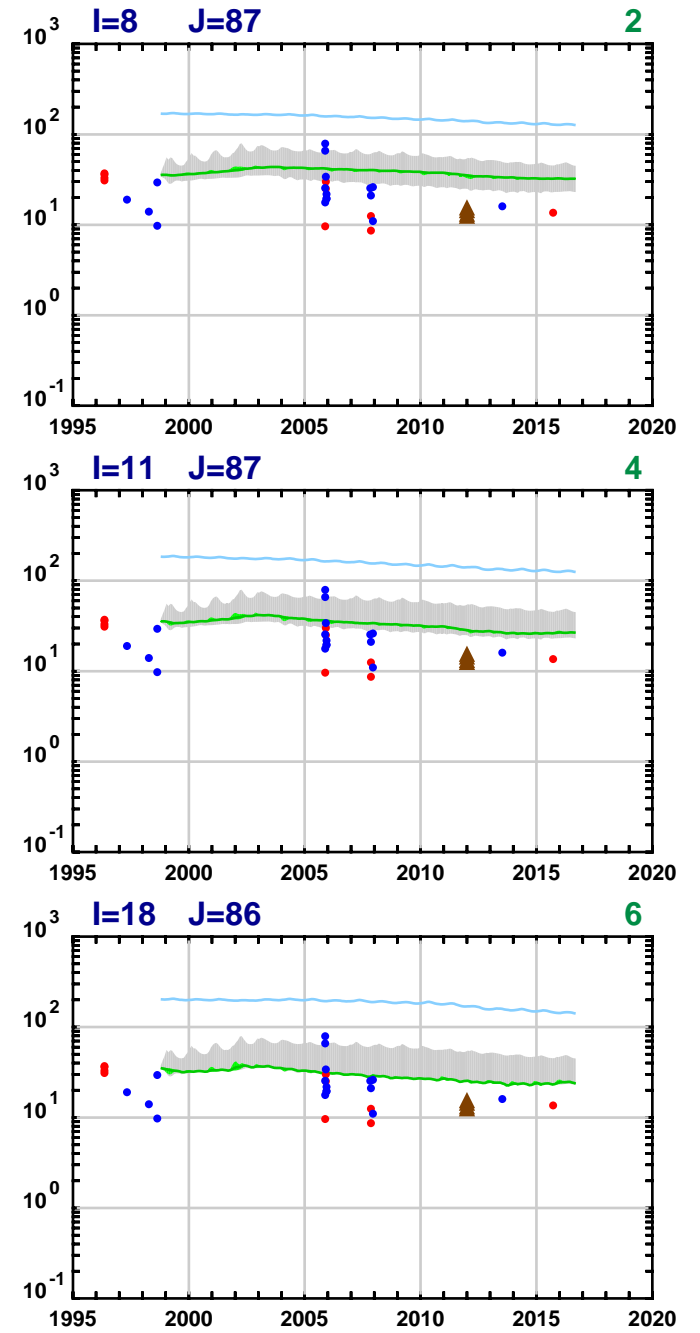
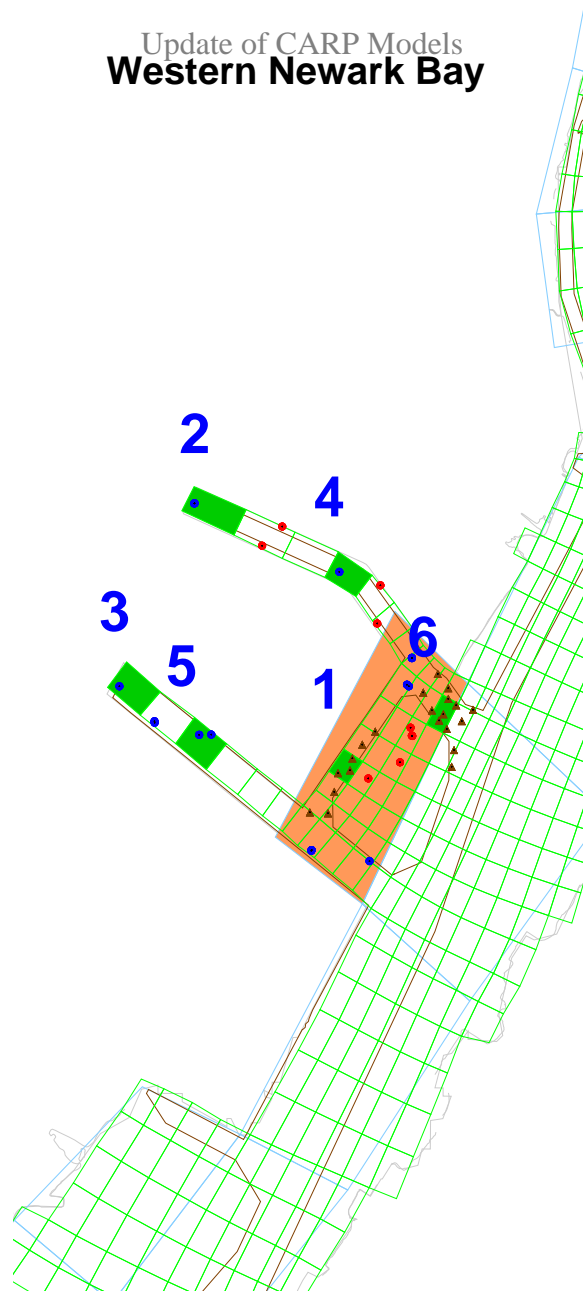
Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



## Update of CARP Models Western Newark Bay



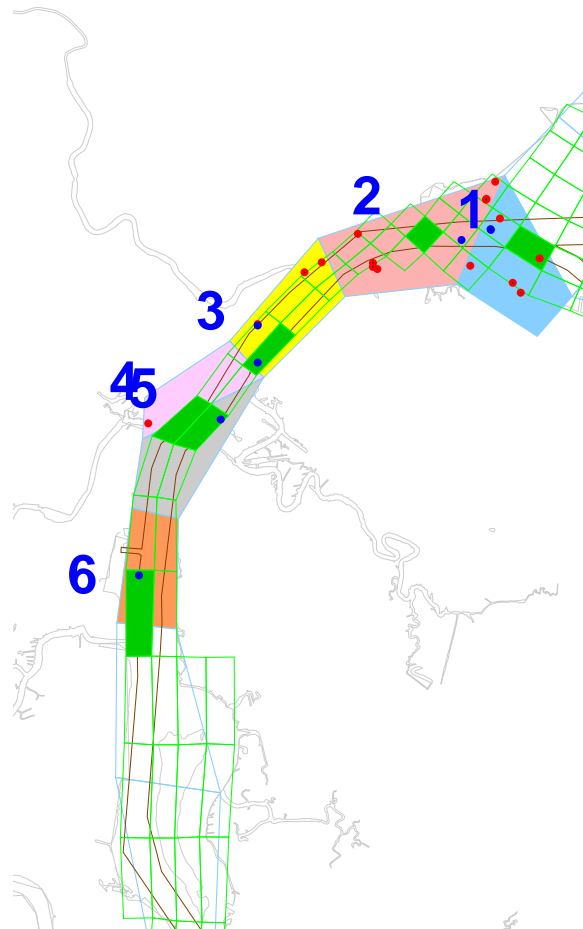
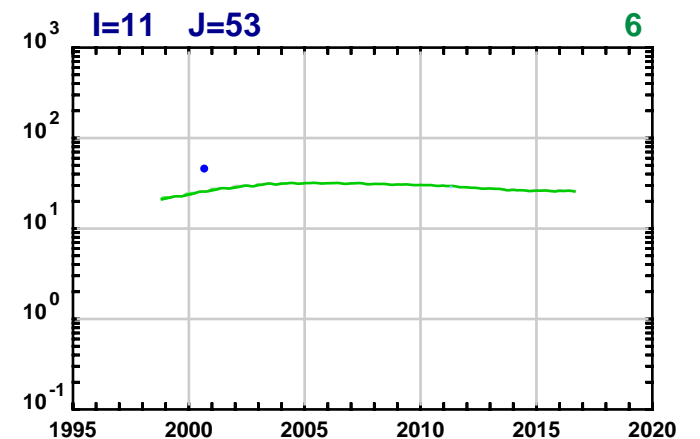
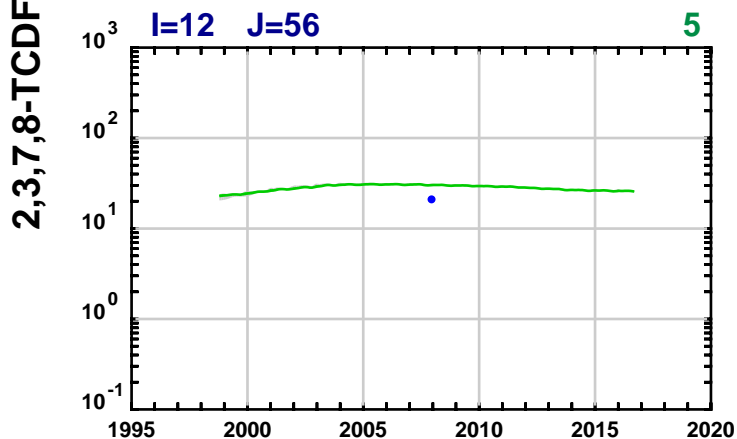
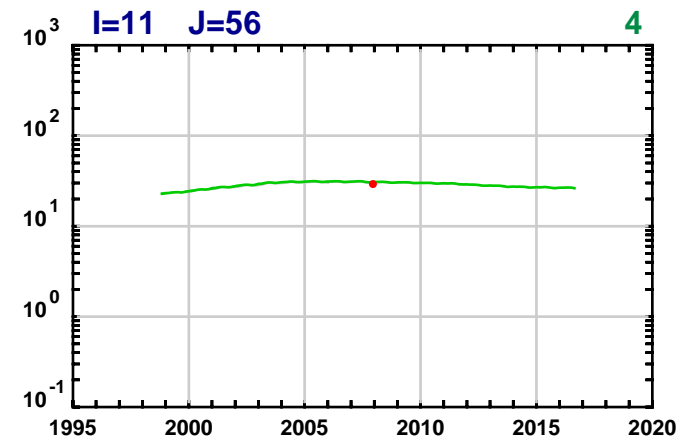
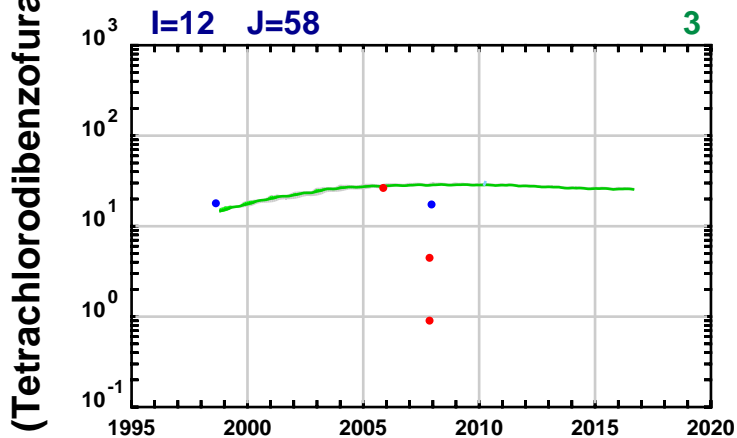
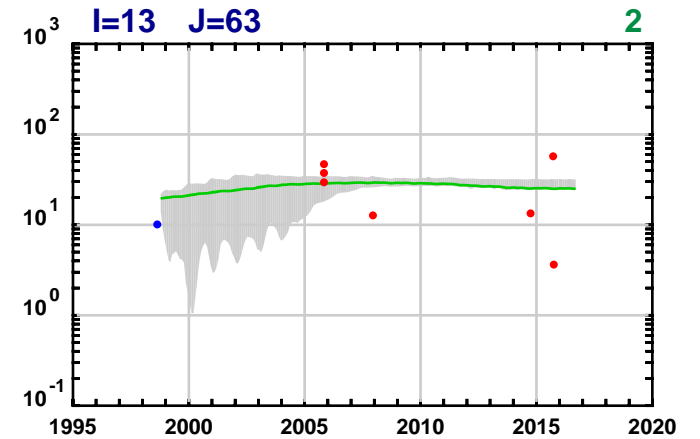
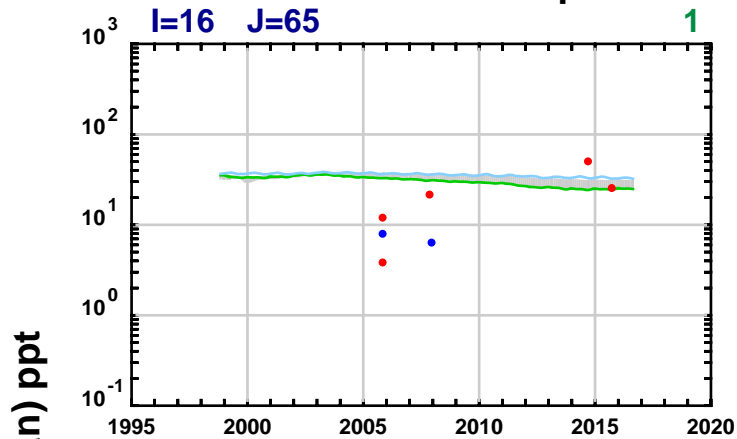
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1



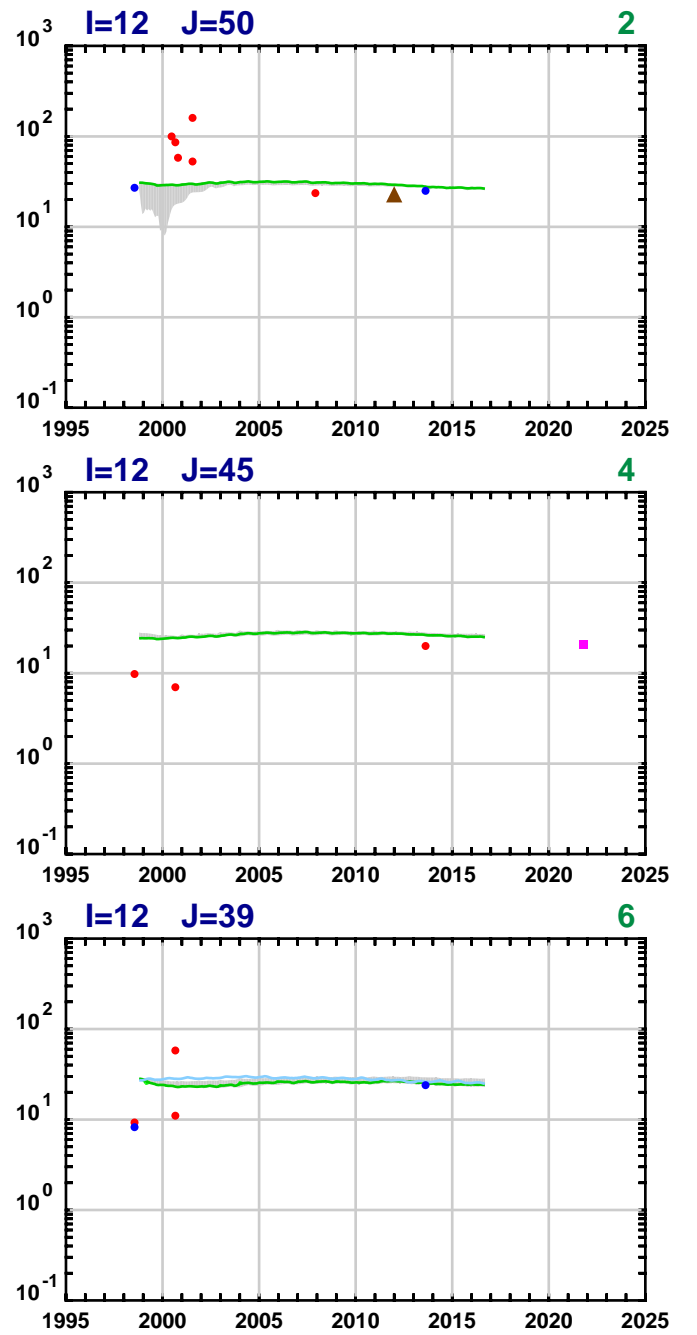
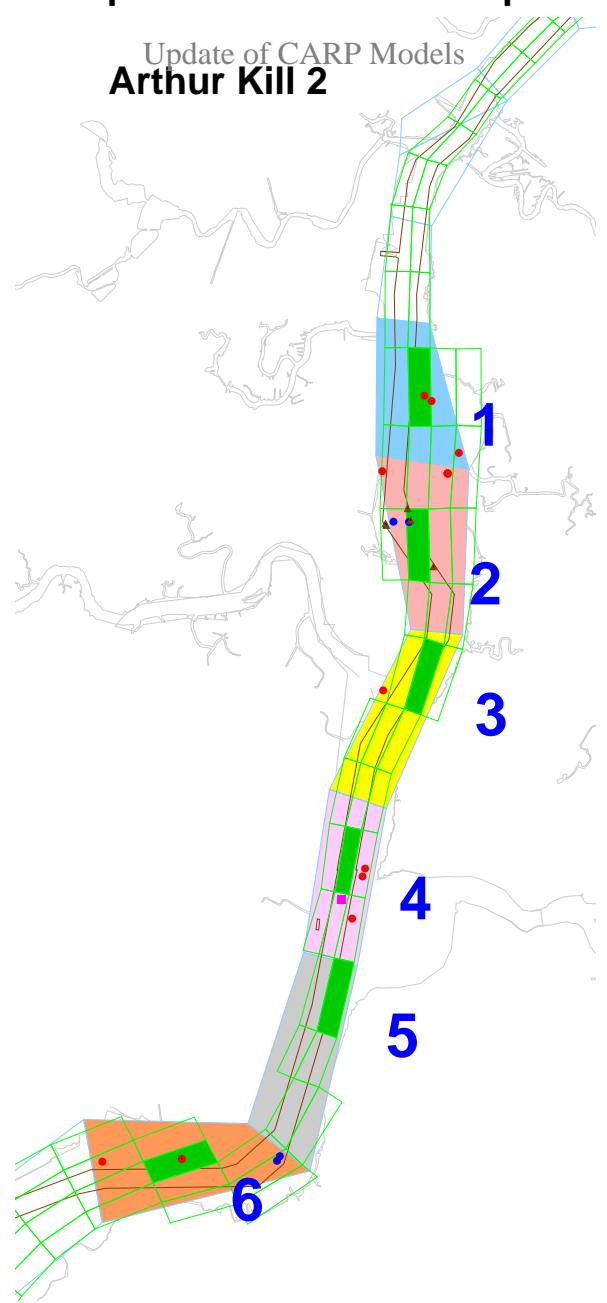
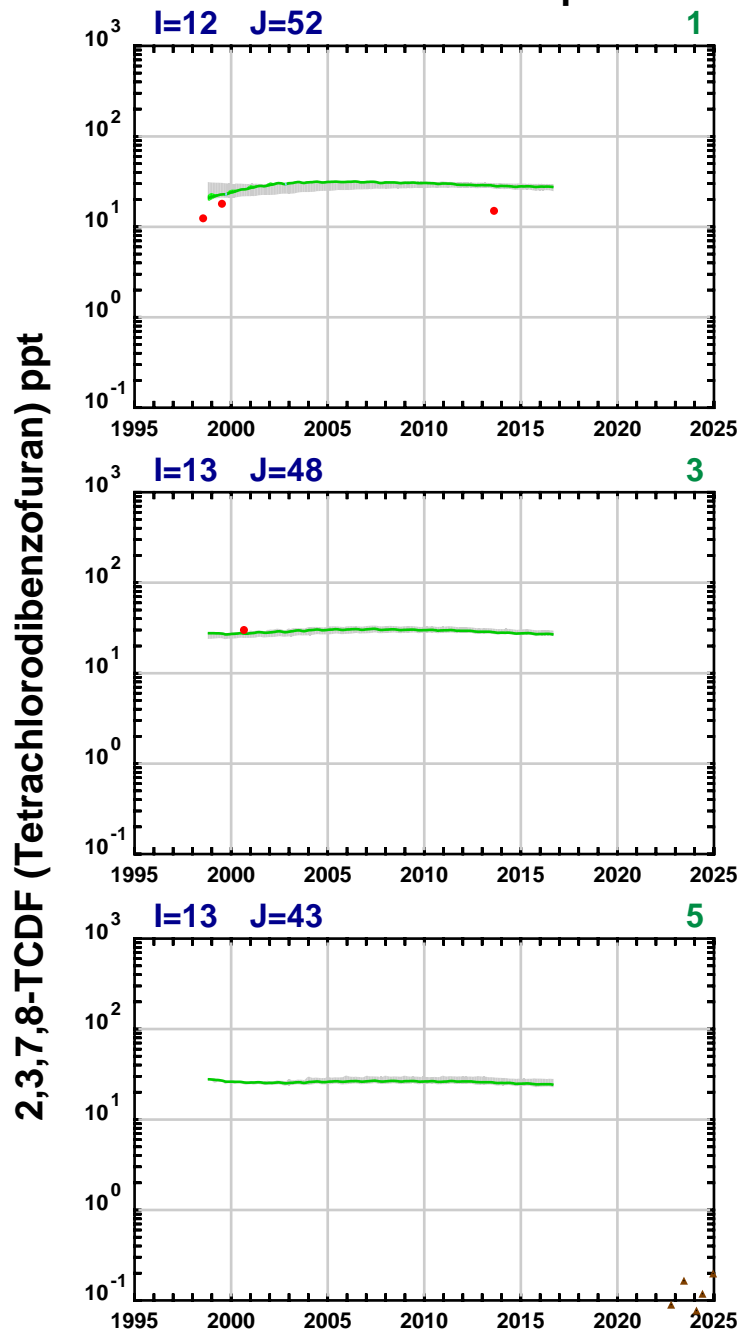
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

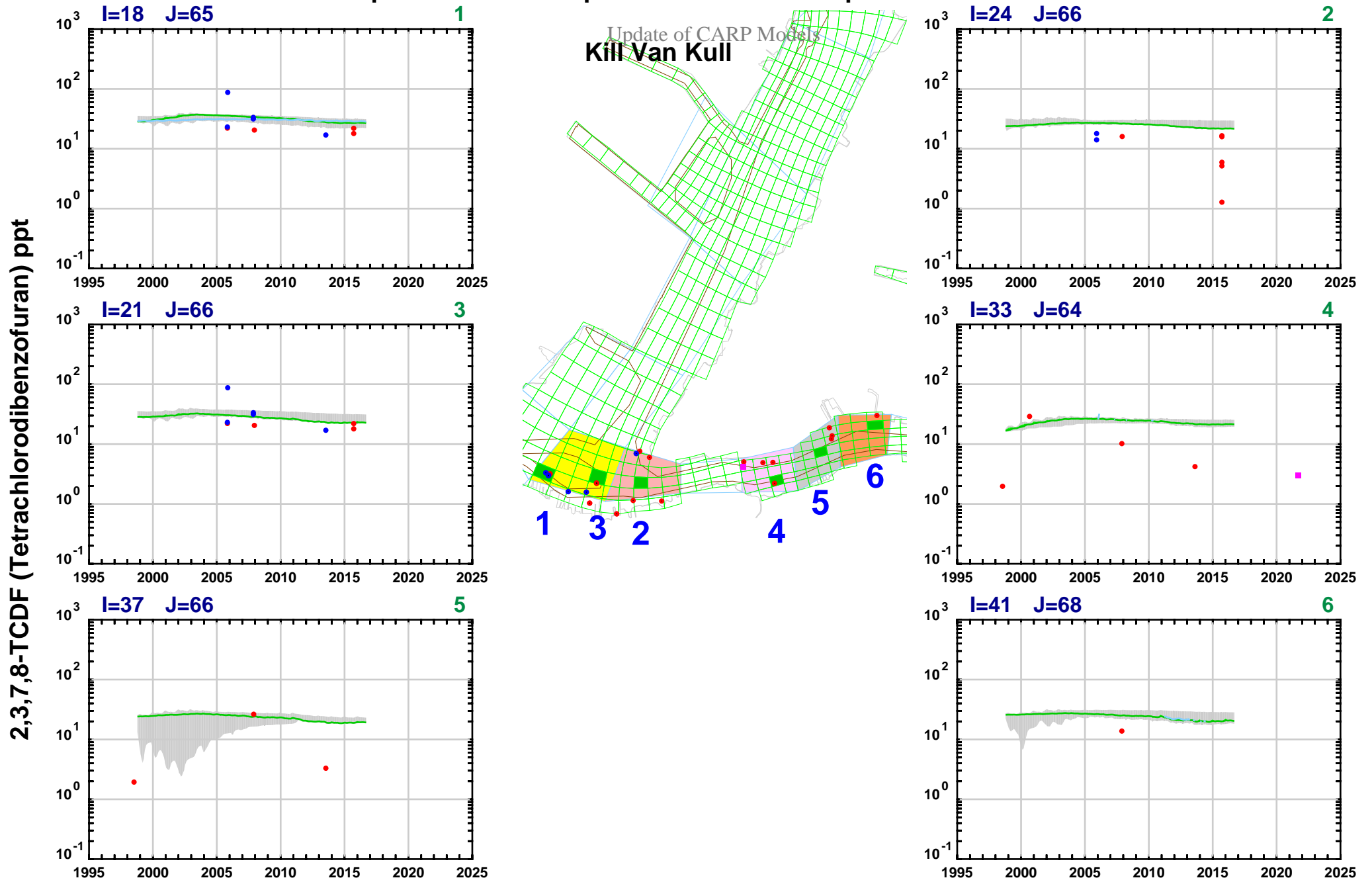


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

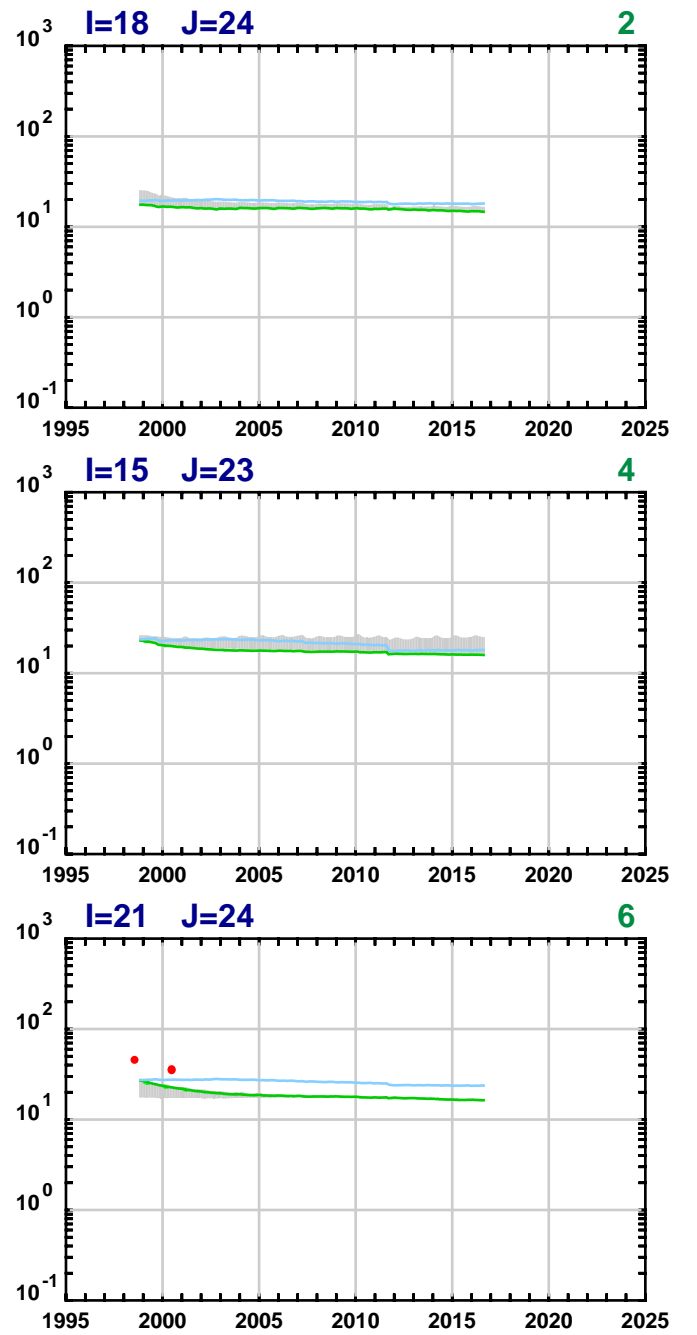
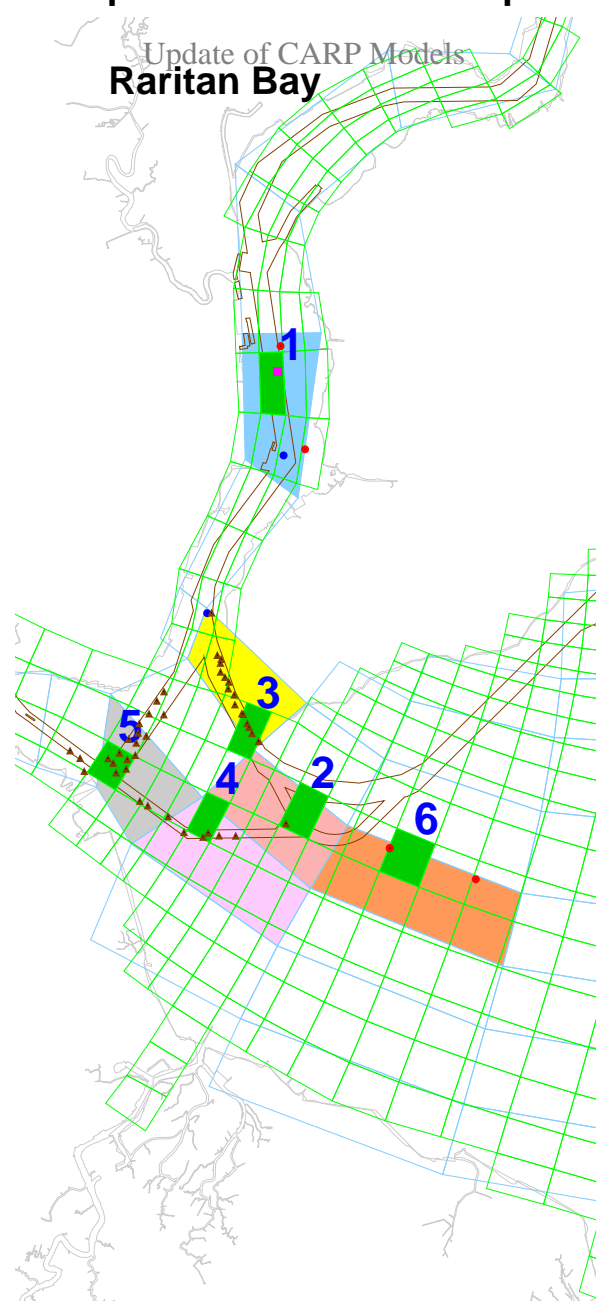
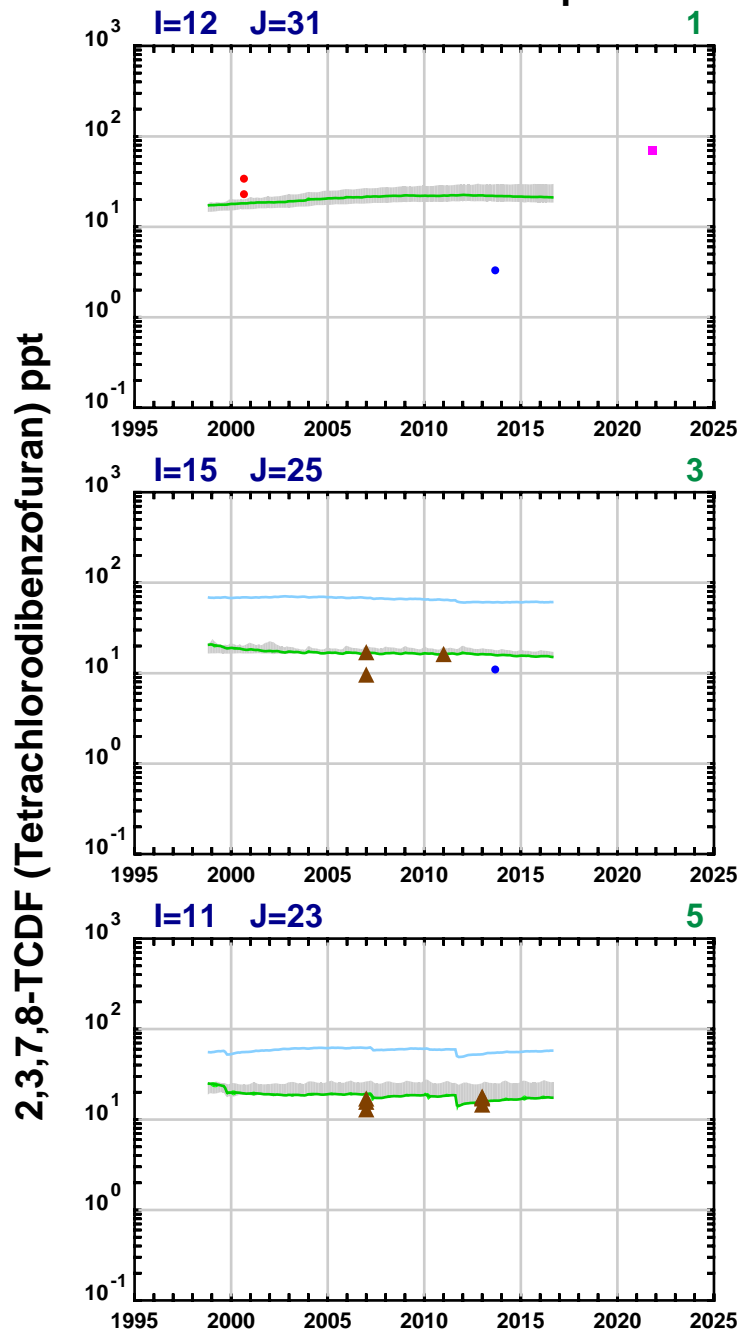


**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

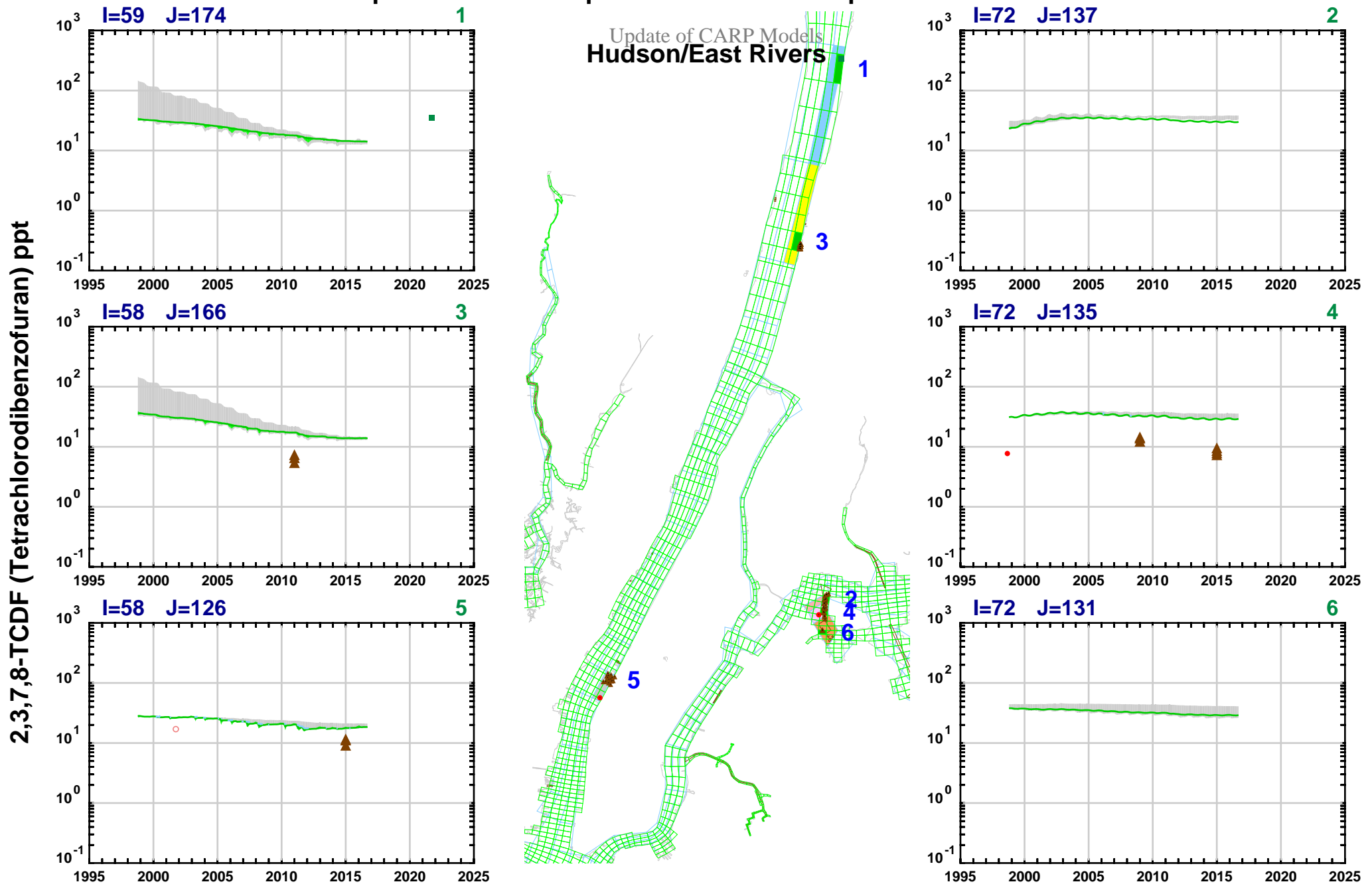


**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

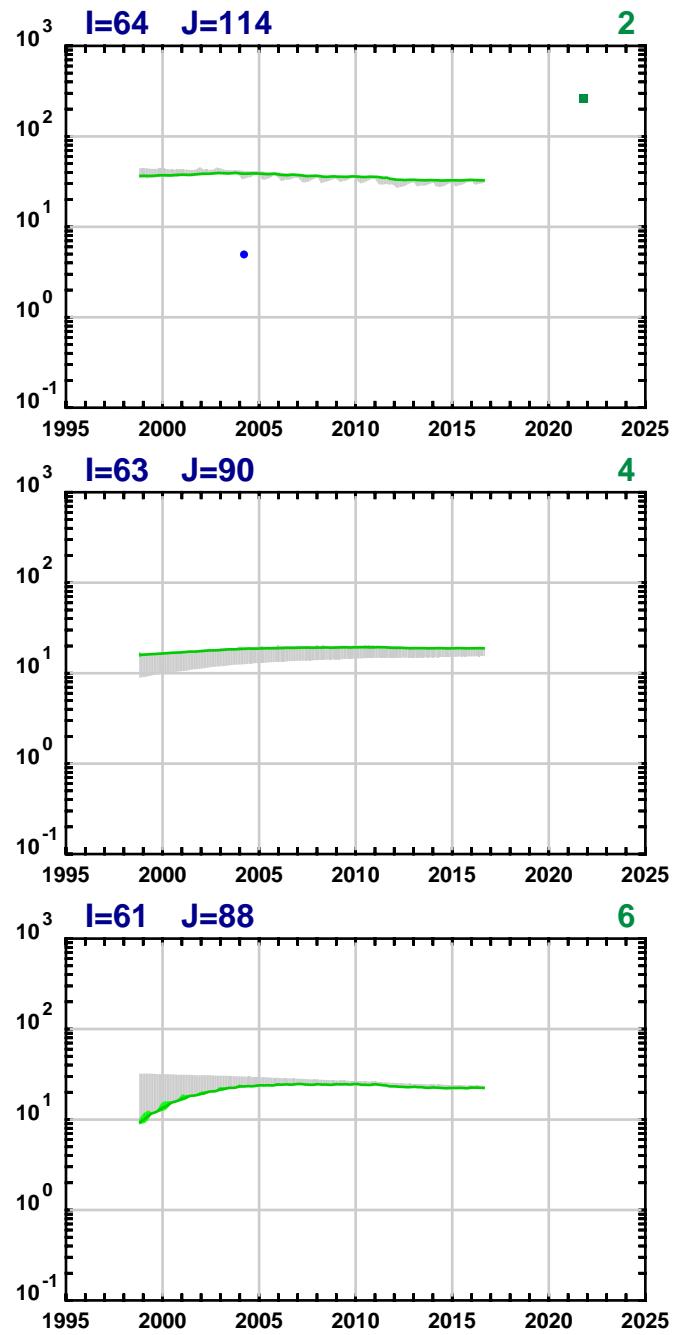
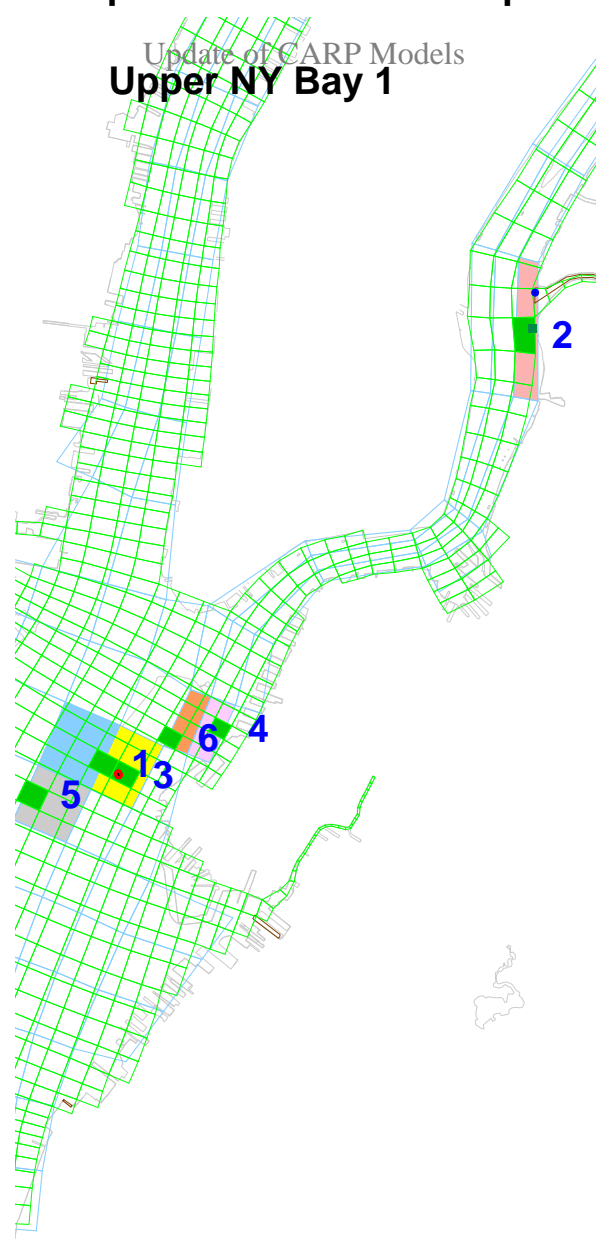
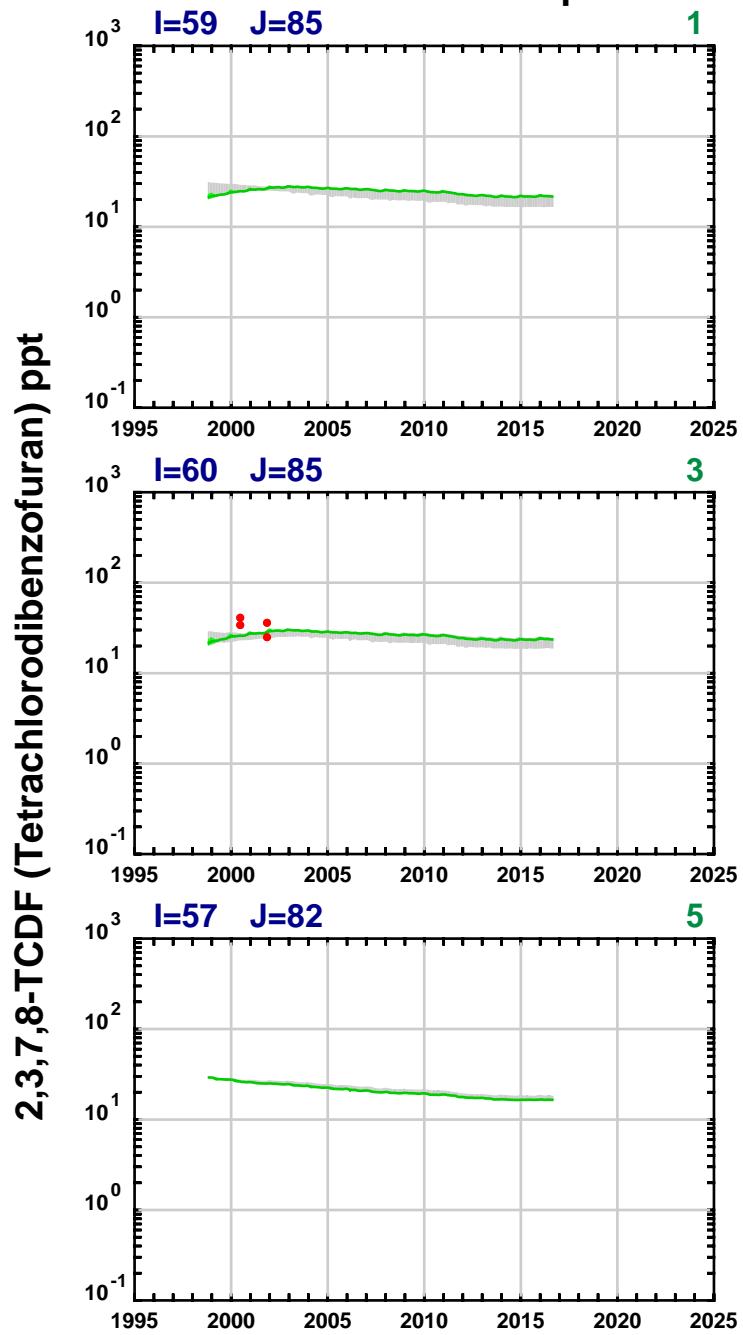


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

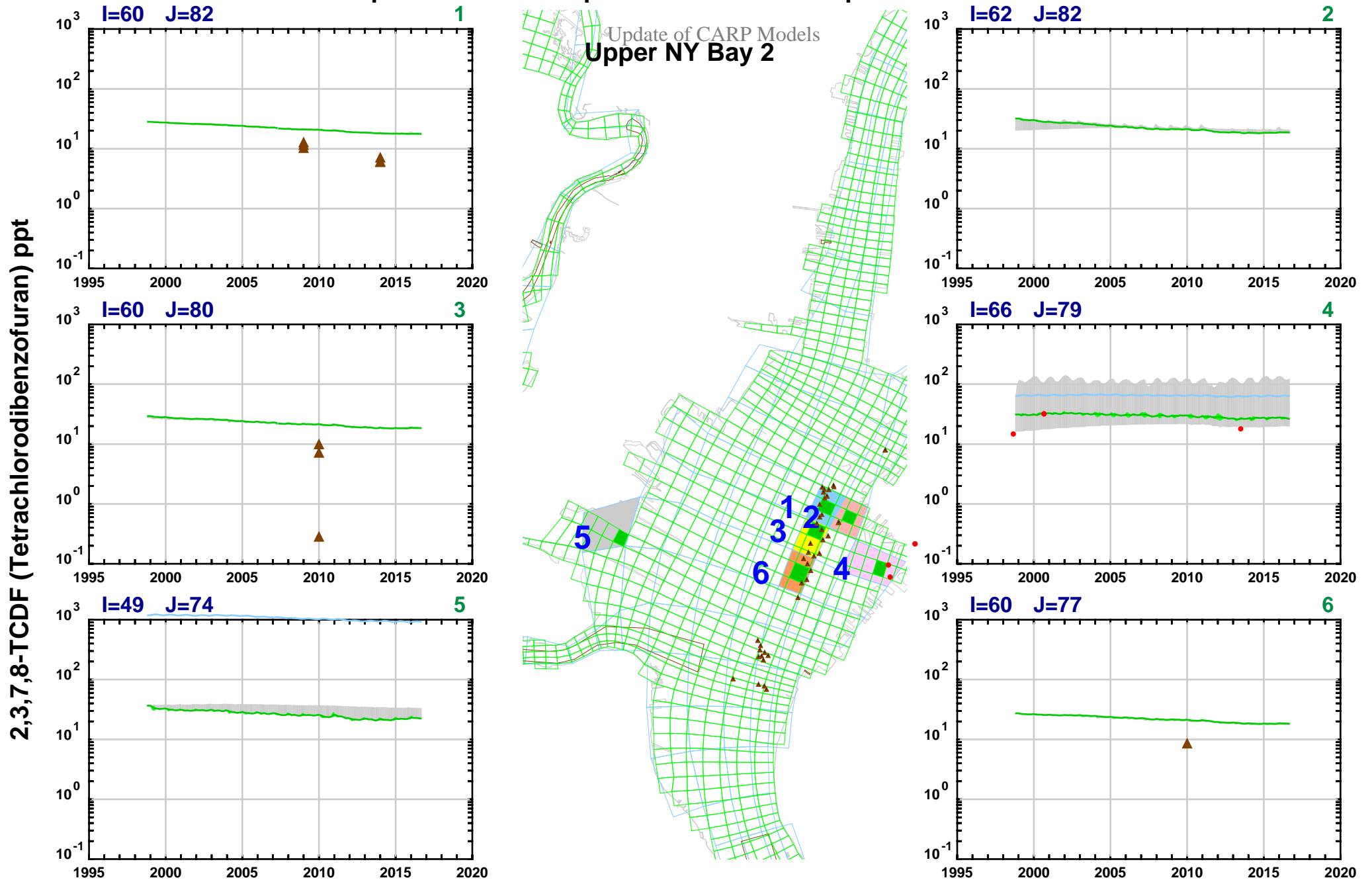


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

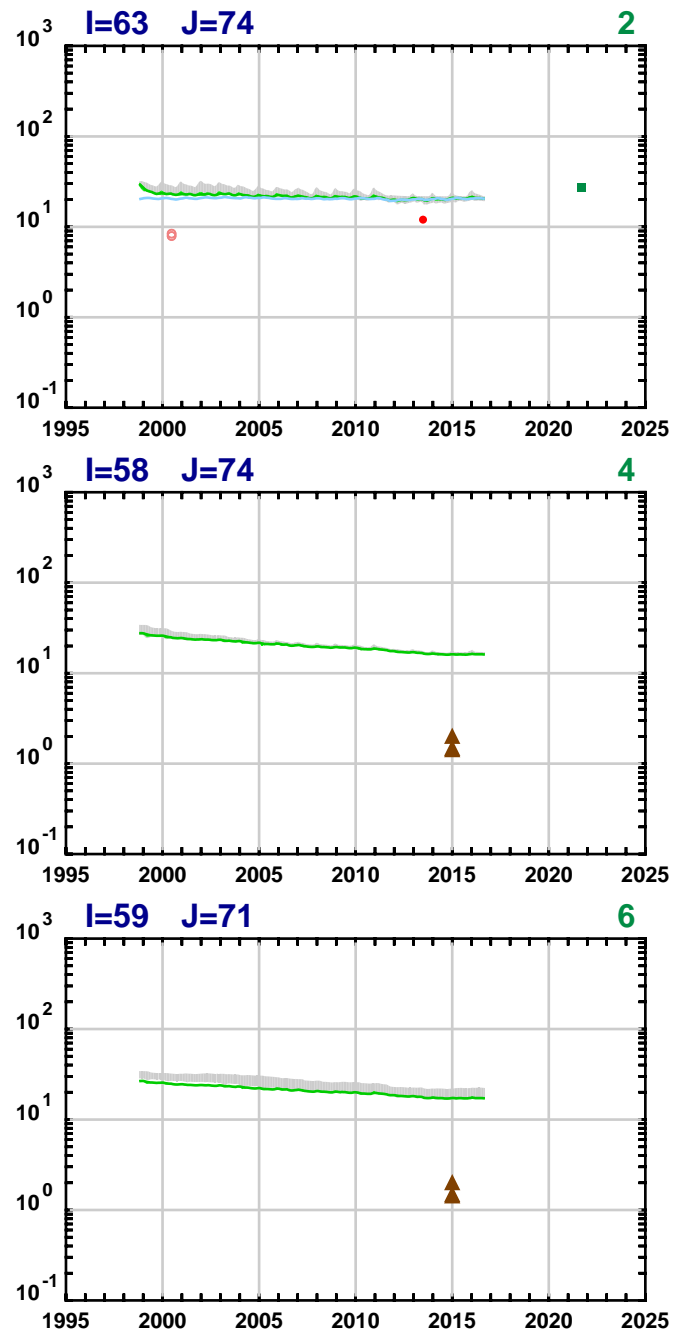
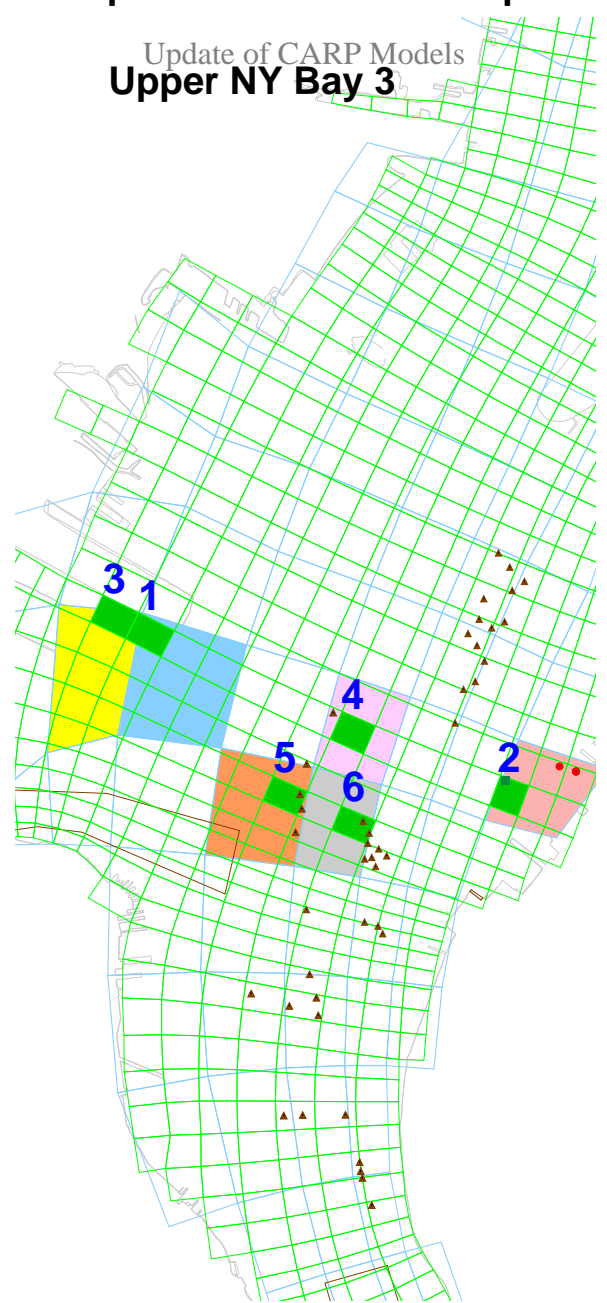
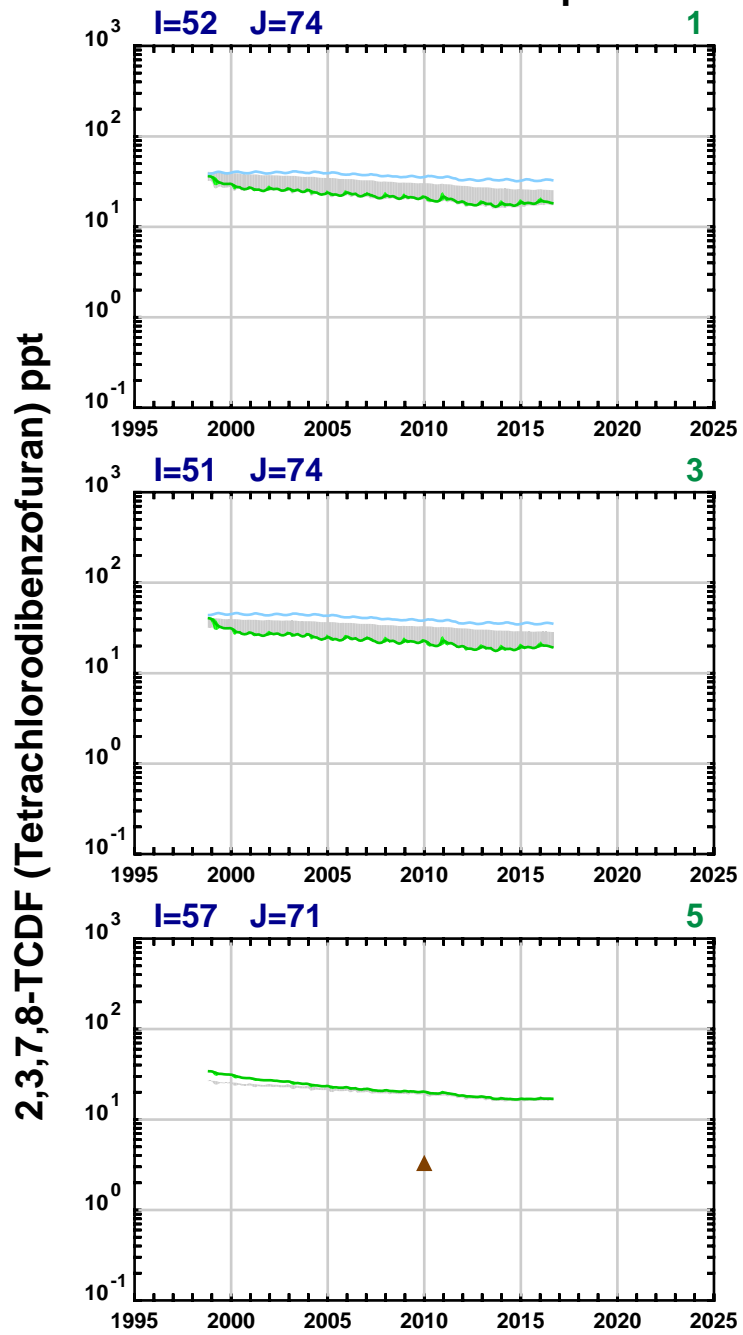


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



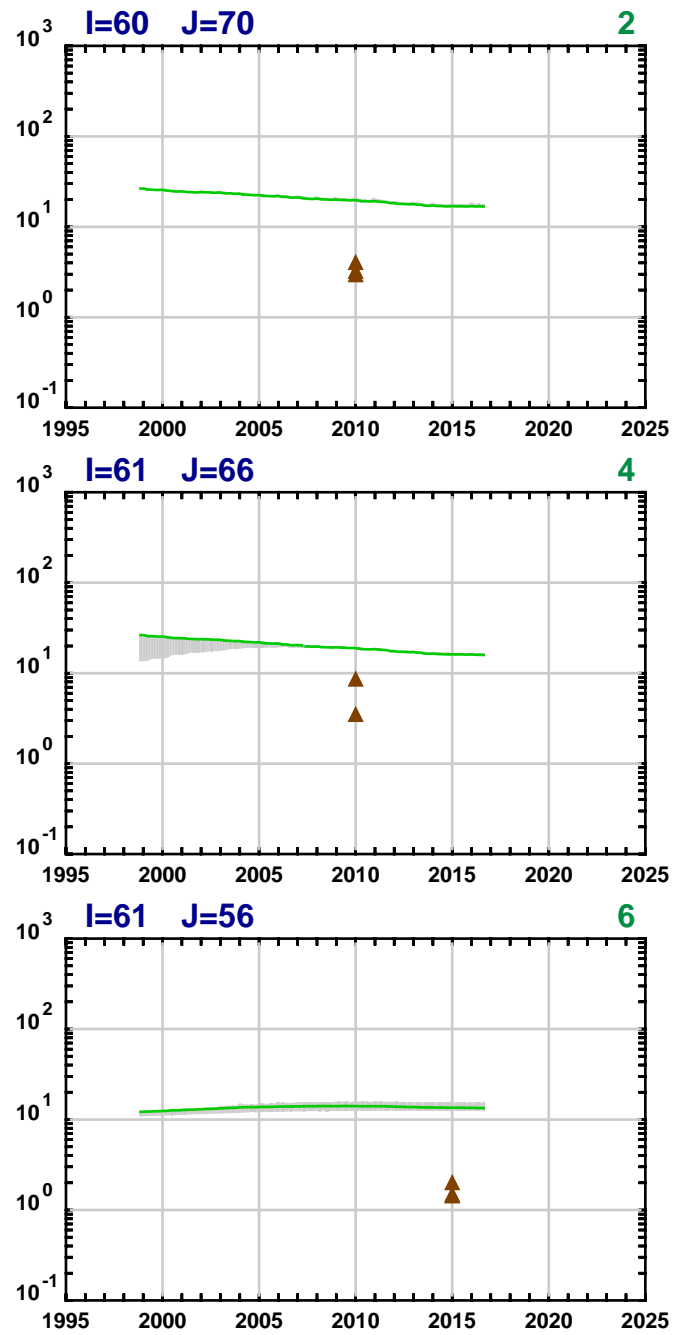
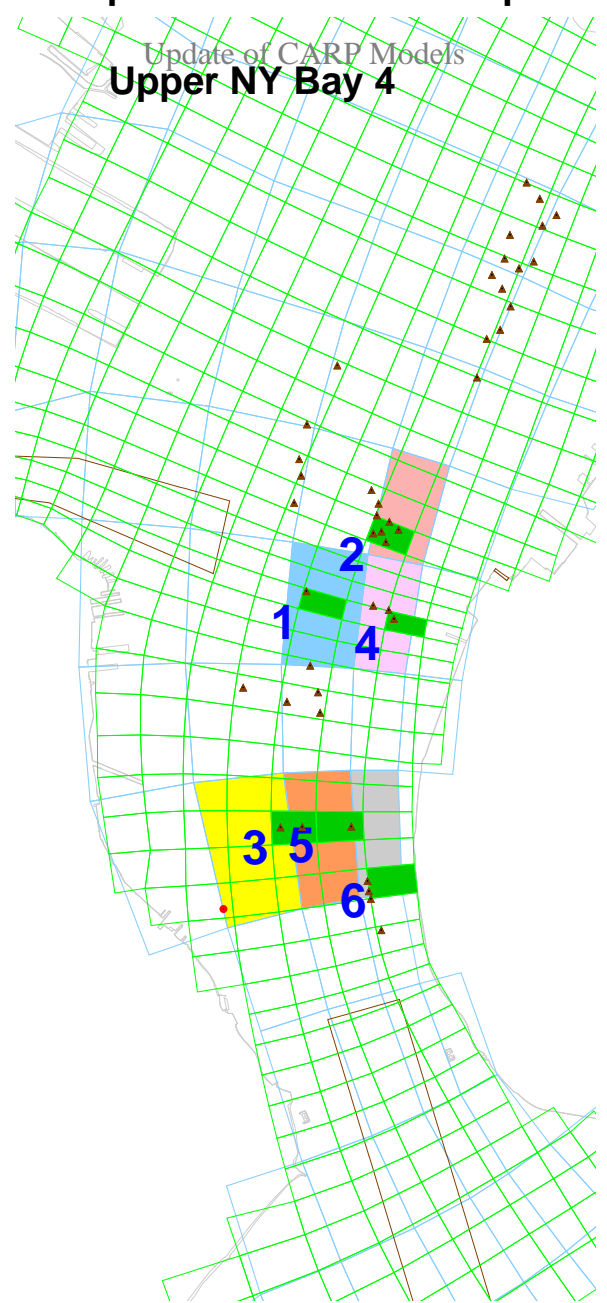
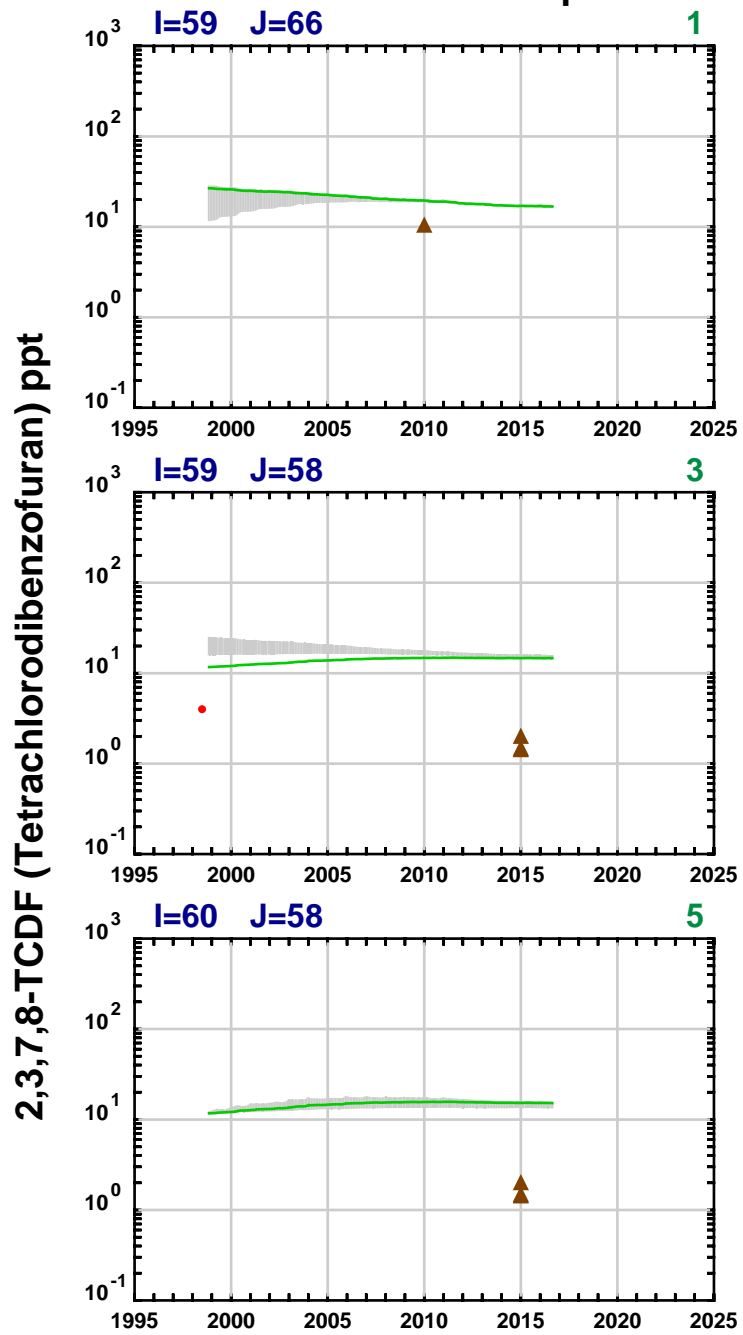
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

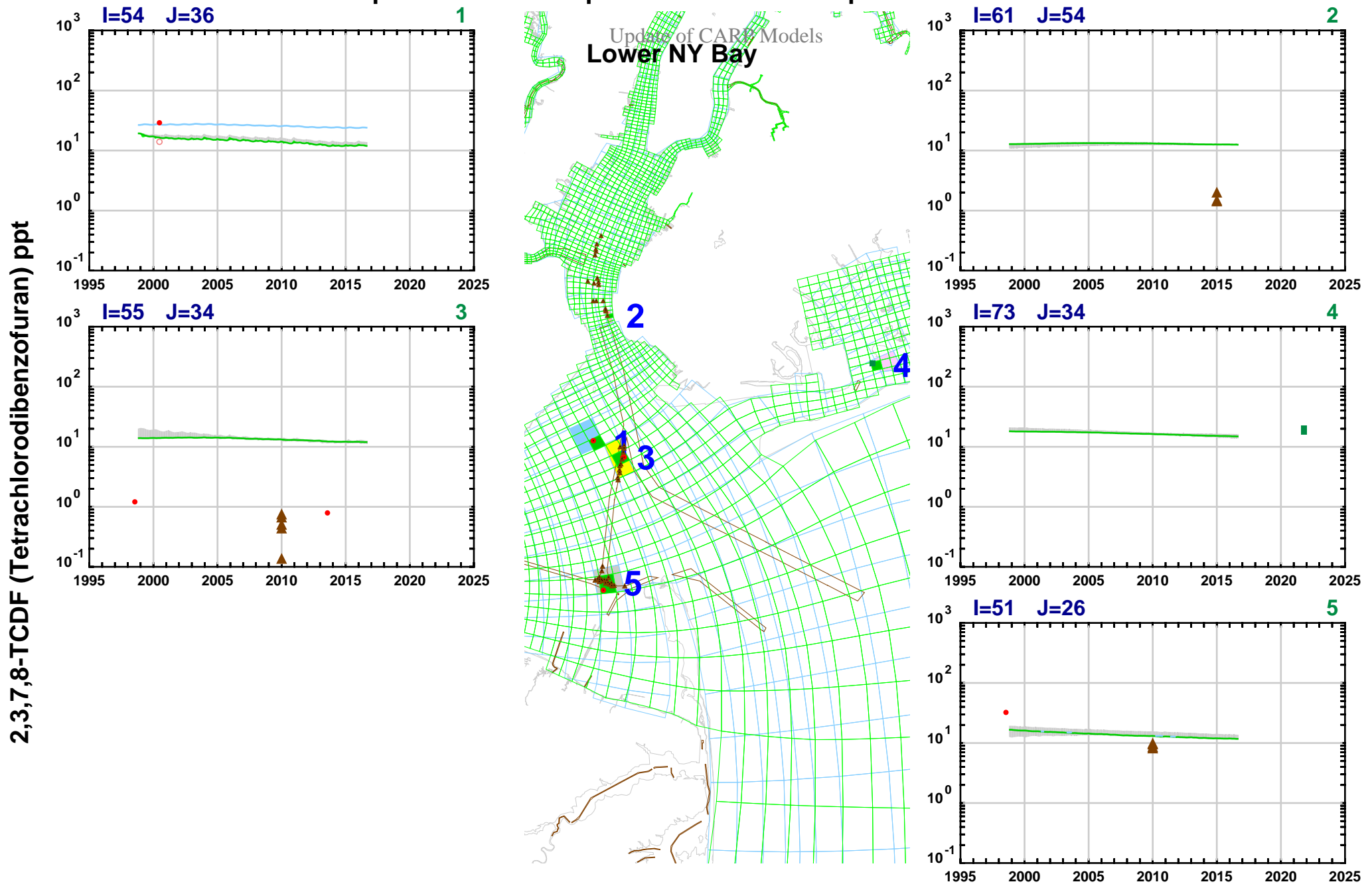


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

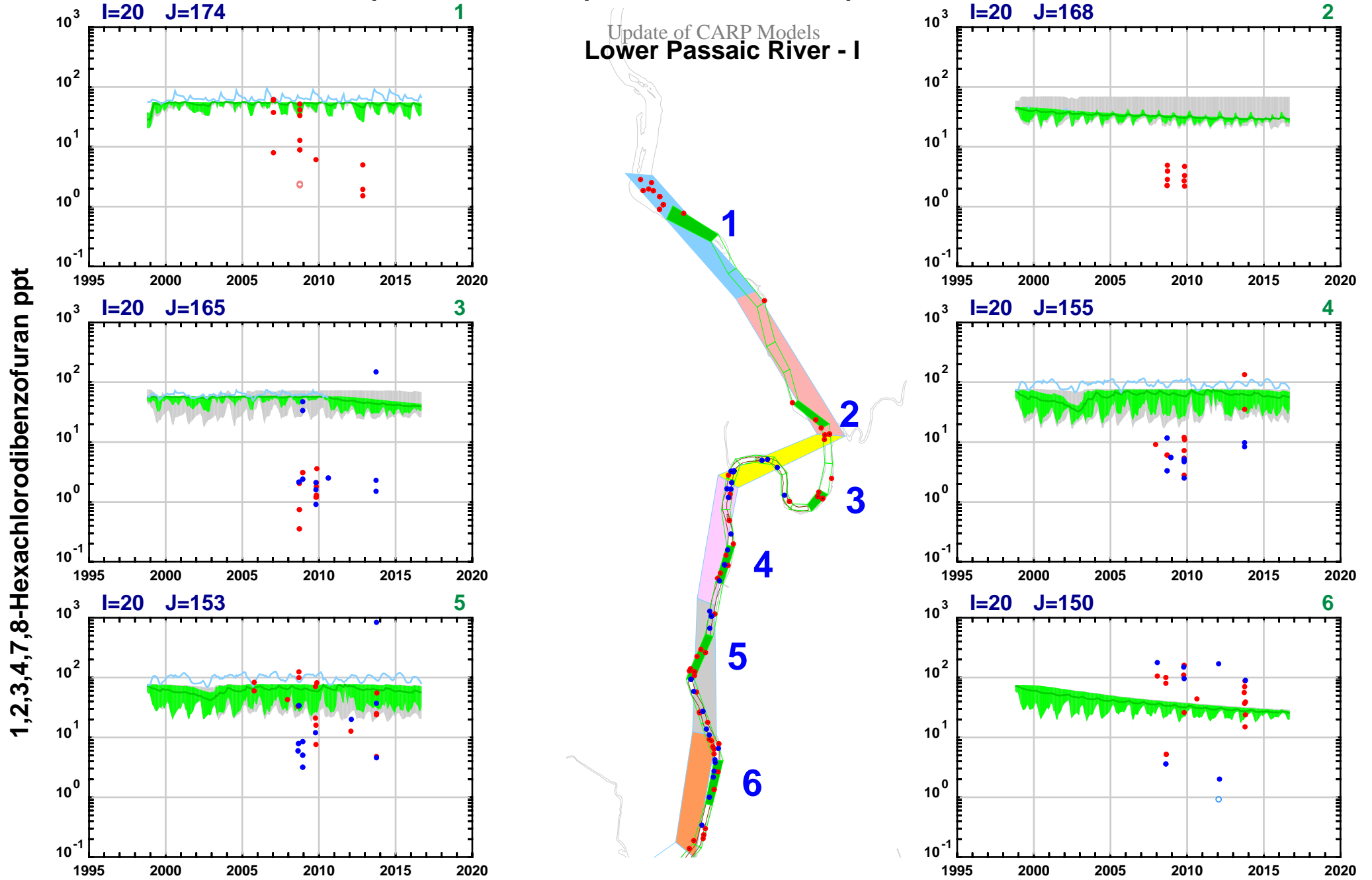


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

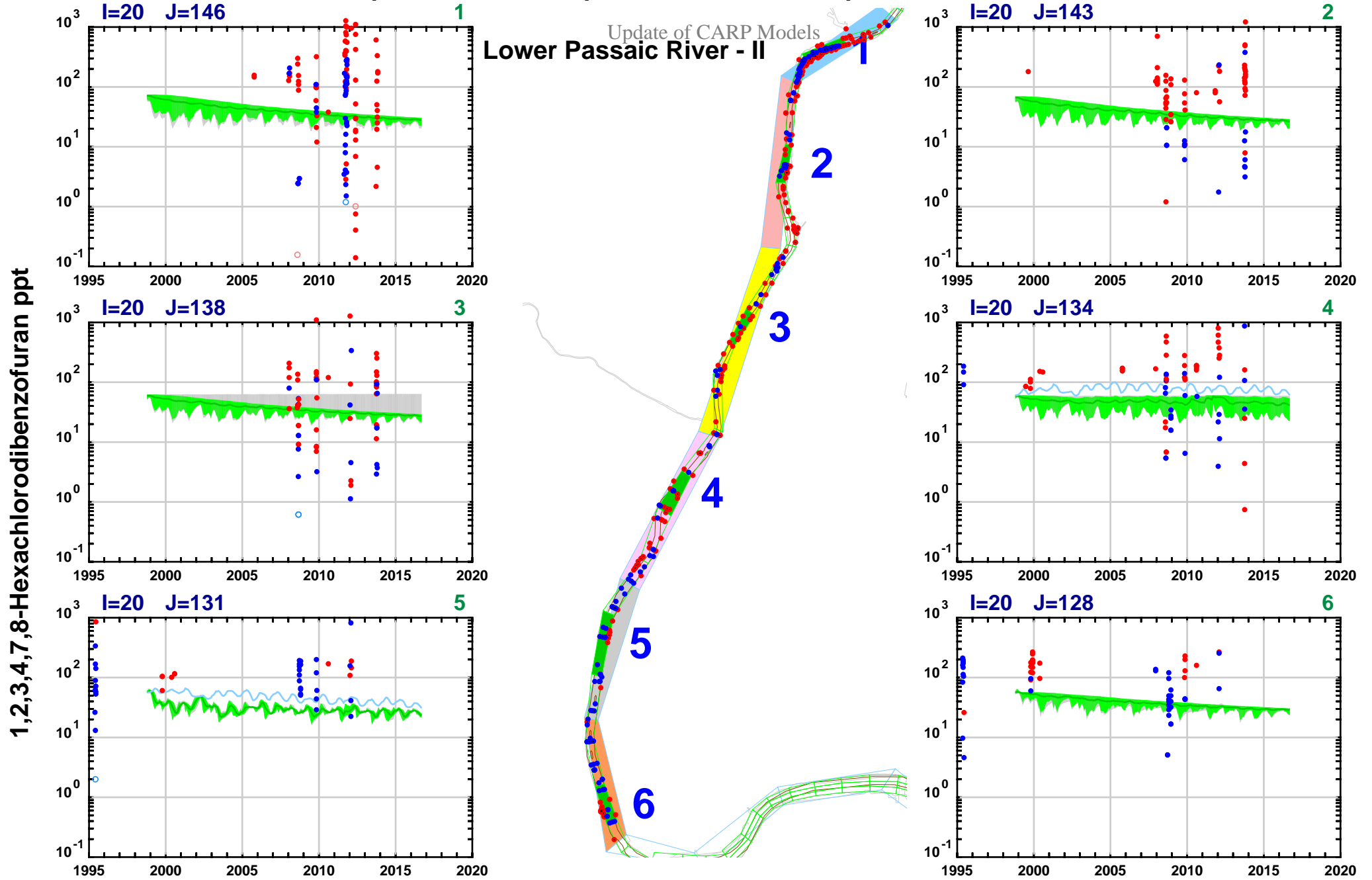


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



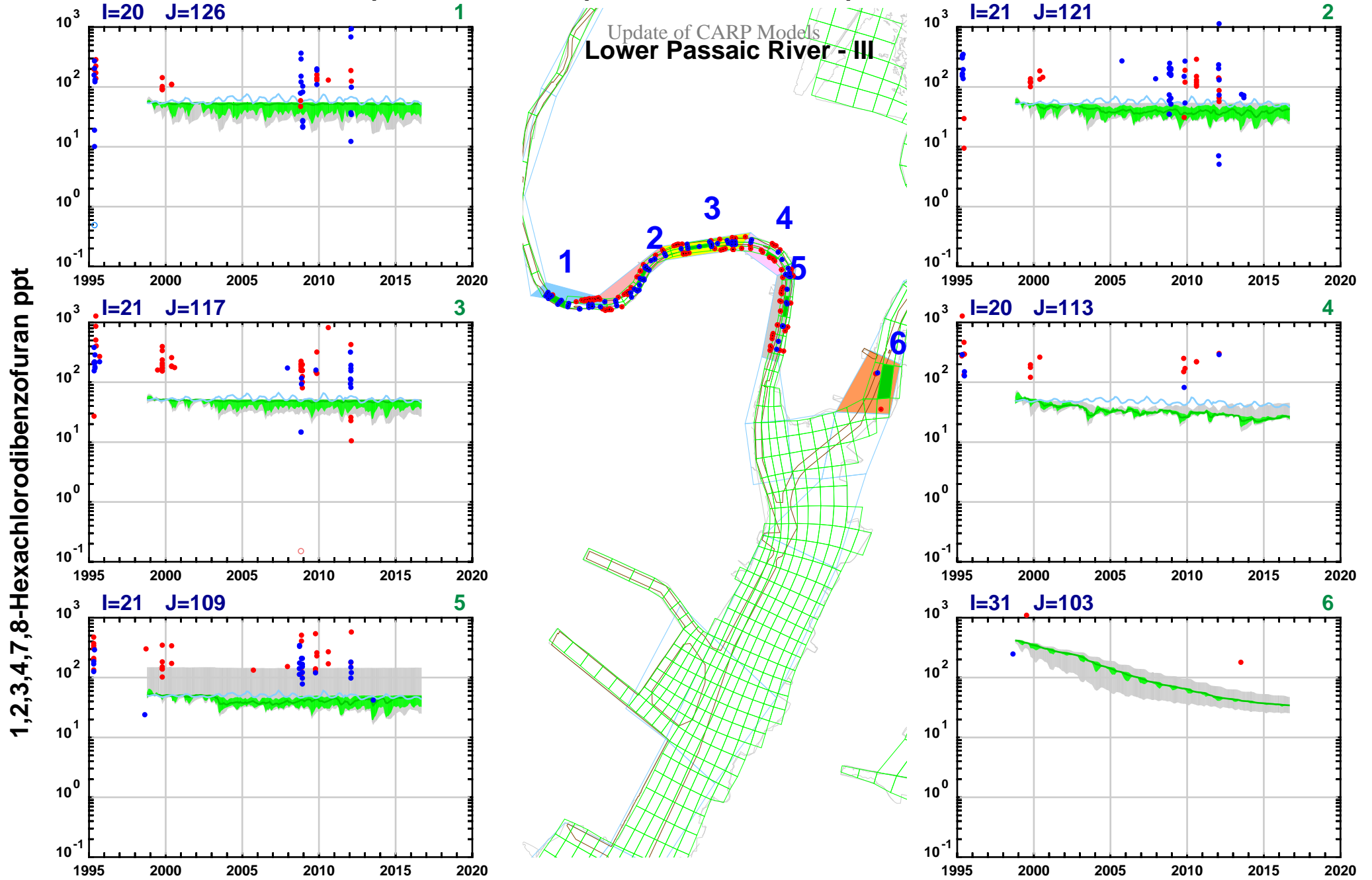
1,2,3,4,7,8-Hexachlorodibenzofuran ppt

**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



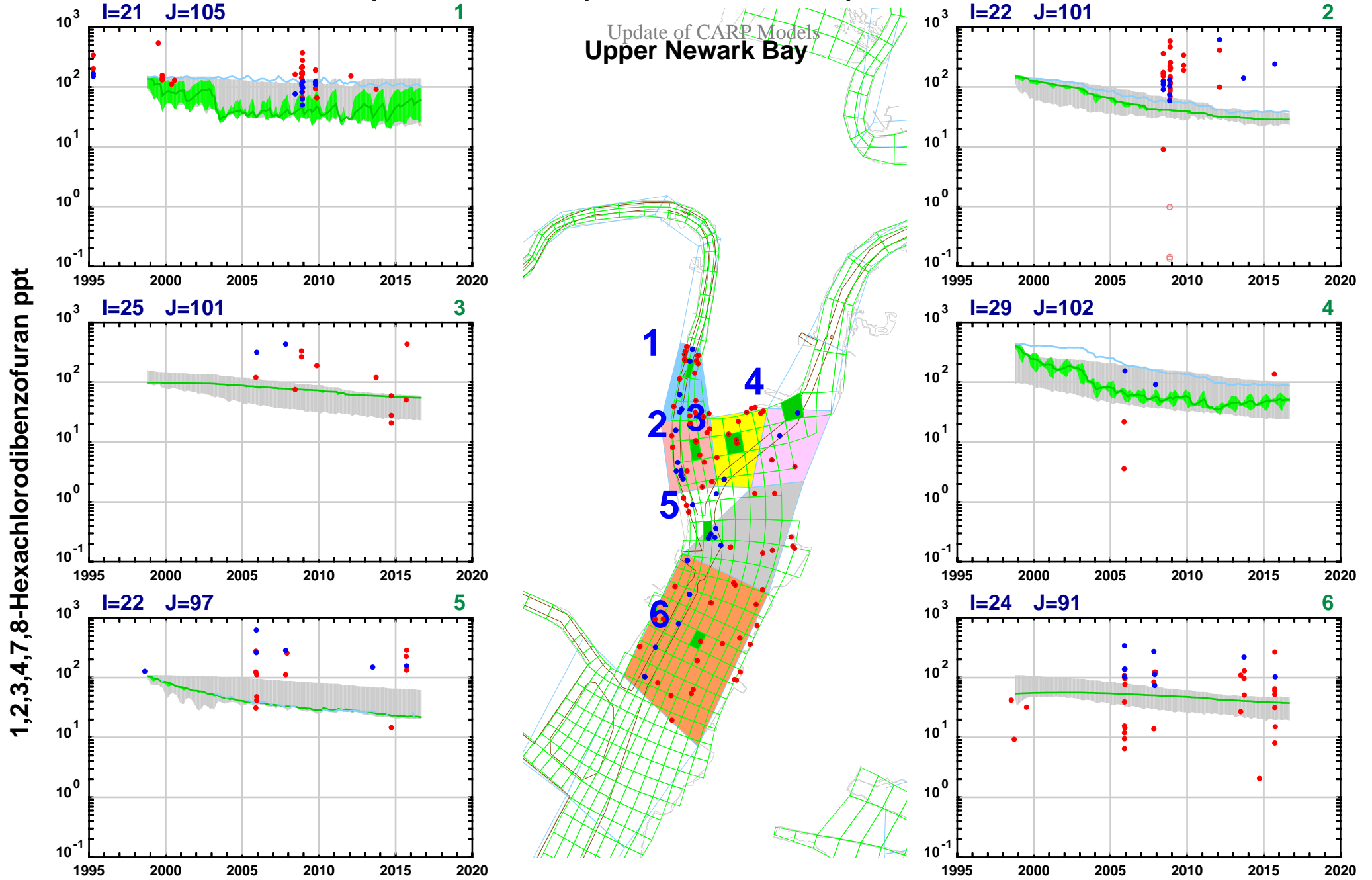
1,2,3,4,7,8-Hexachlorodibenzofuran ppt

RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



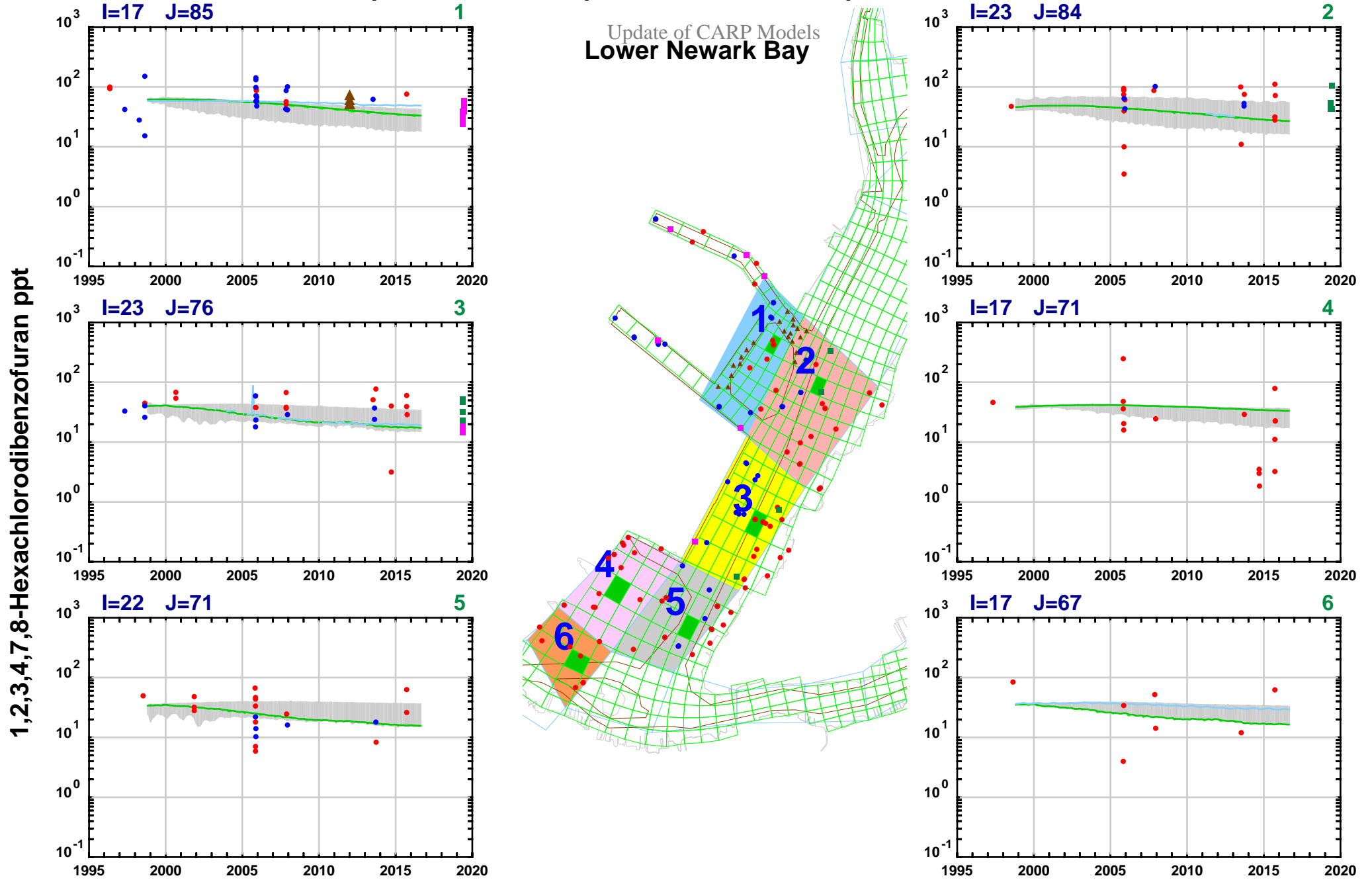
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel



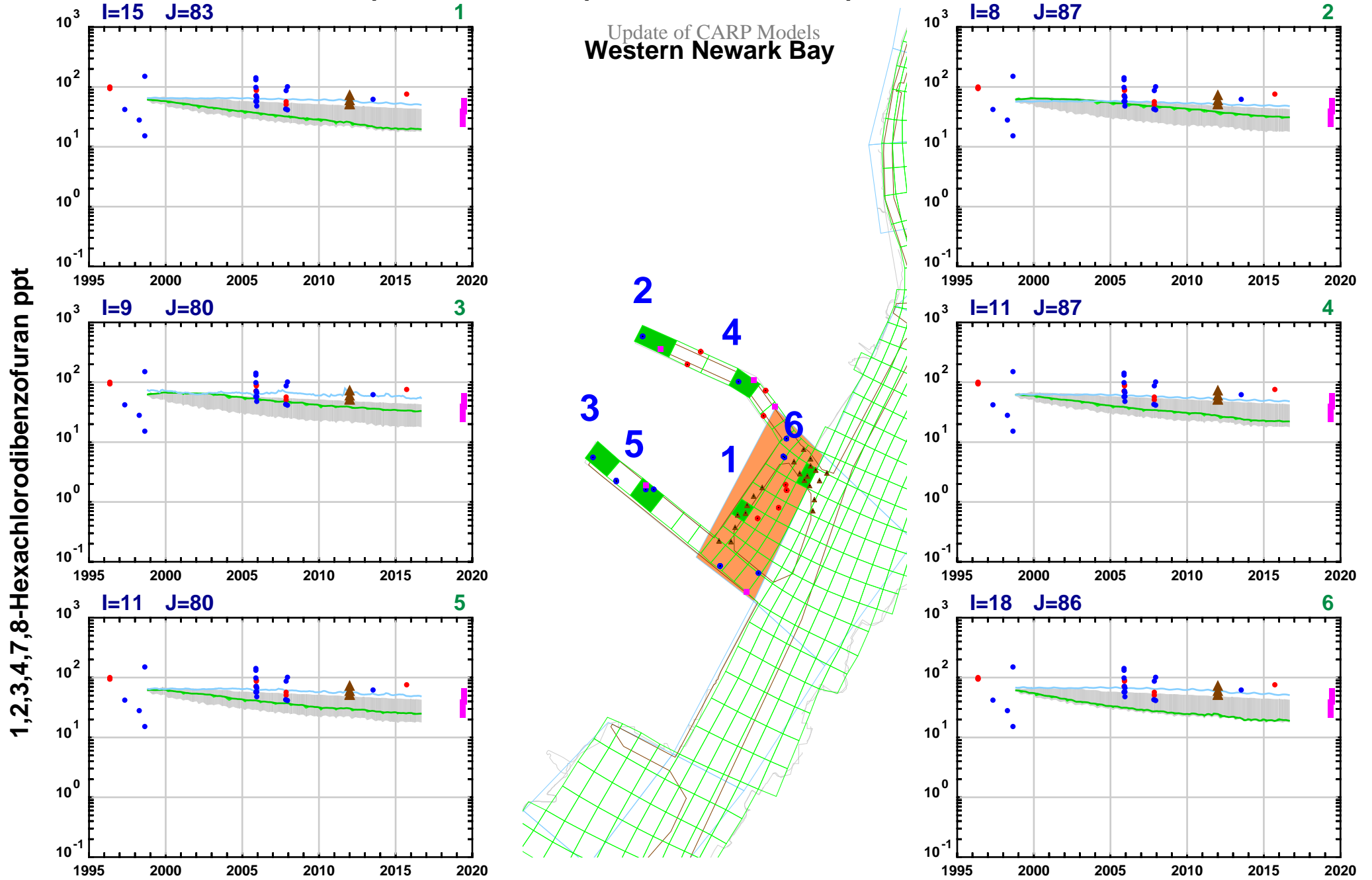
# Top 15 cm data comparison with model top 10 cm sediment



RUN18\_S5\_R2



# Top 15 cm data comparison with model top 10 cm sediment



1,2,3,4,7,8-Hexachlorodibenzofuran ppt

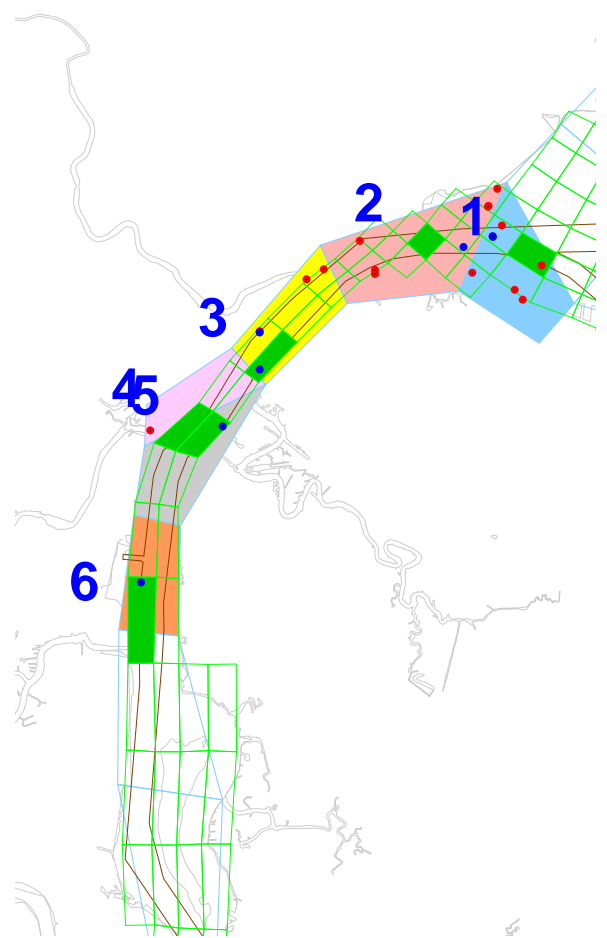
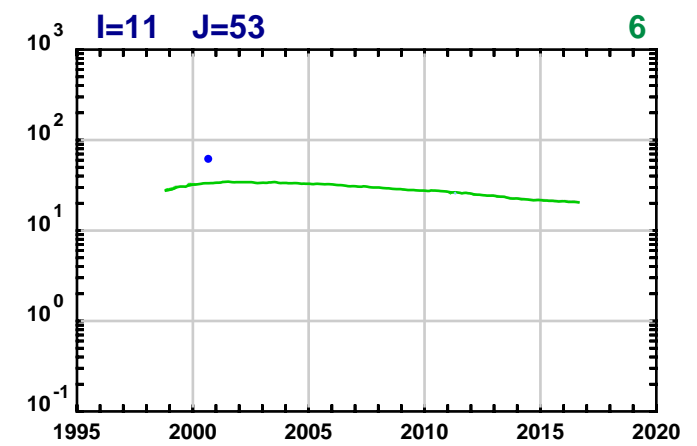
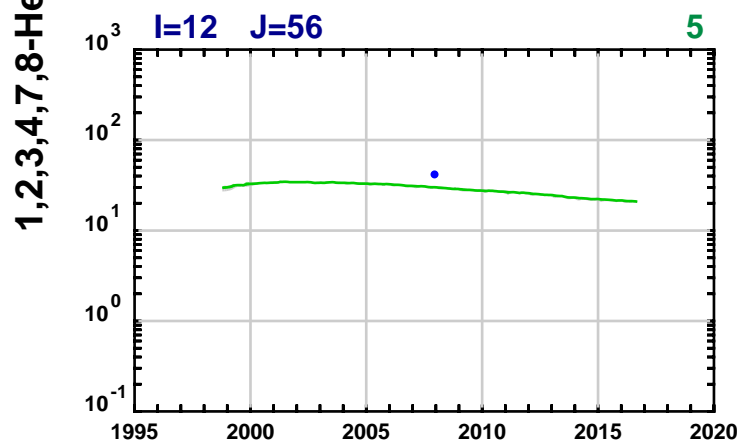
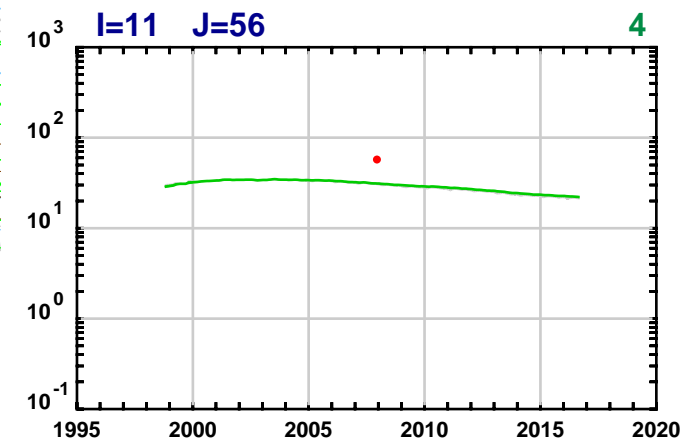
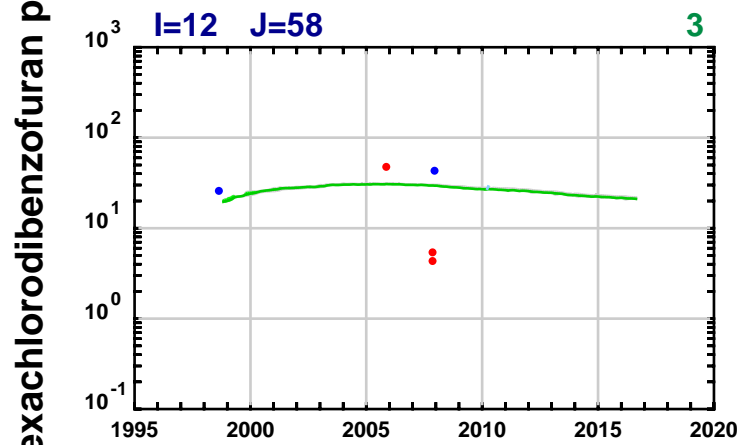
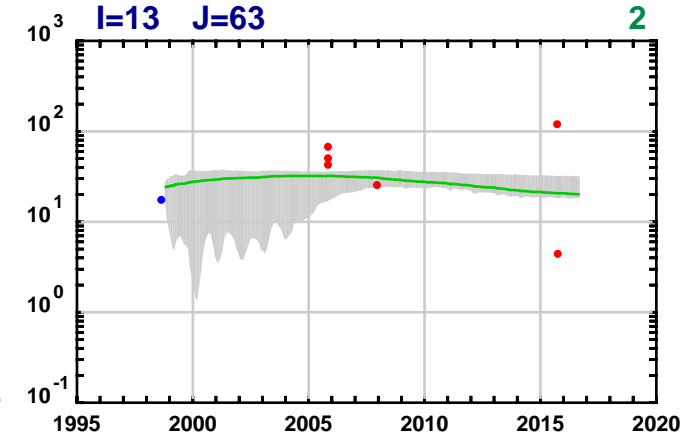
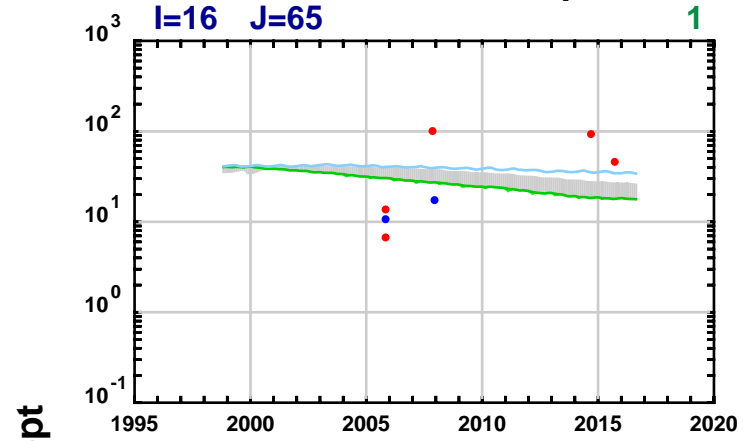
**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1



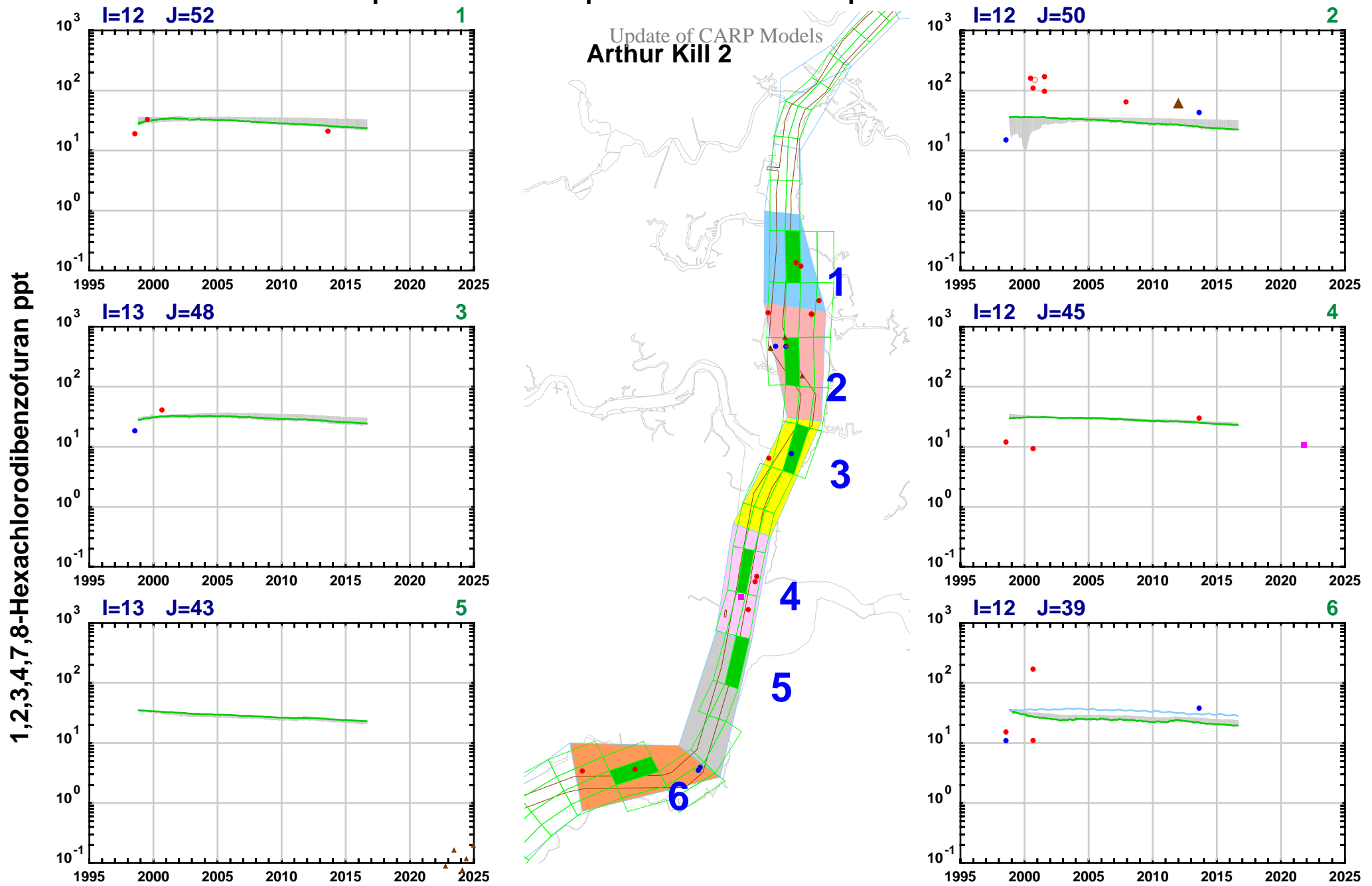
1,2,3,4,7,8-Hexachlorodibenzofuran ppt

**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

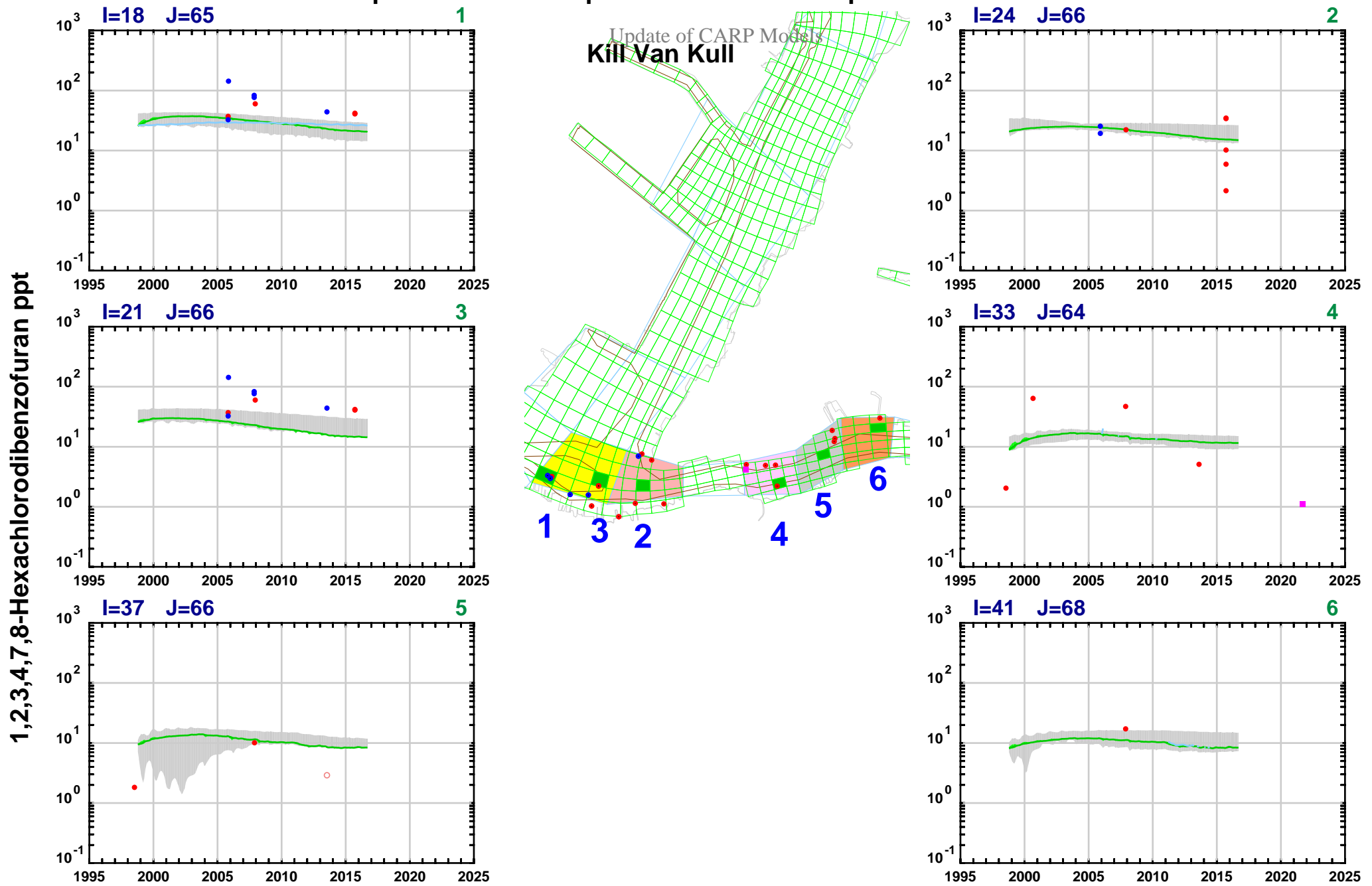


**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

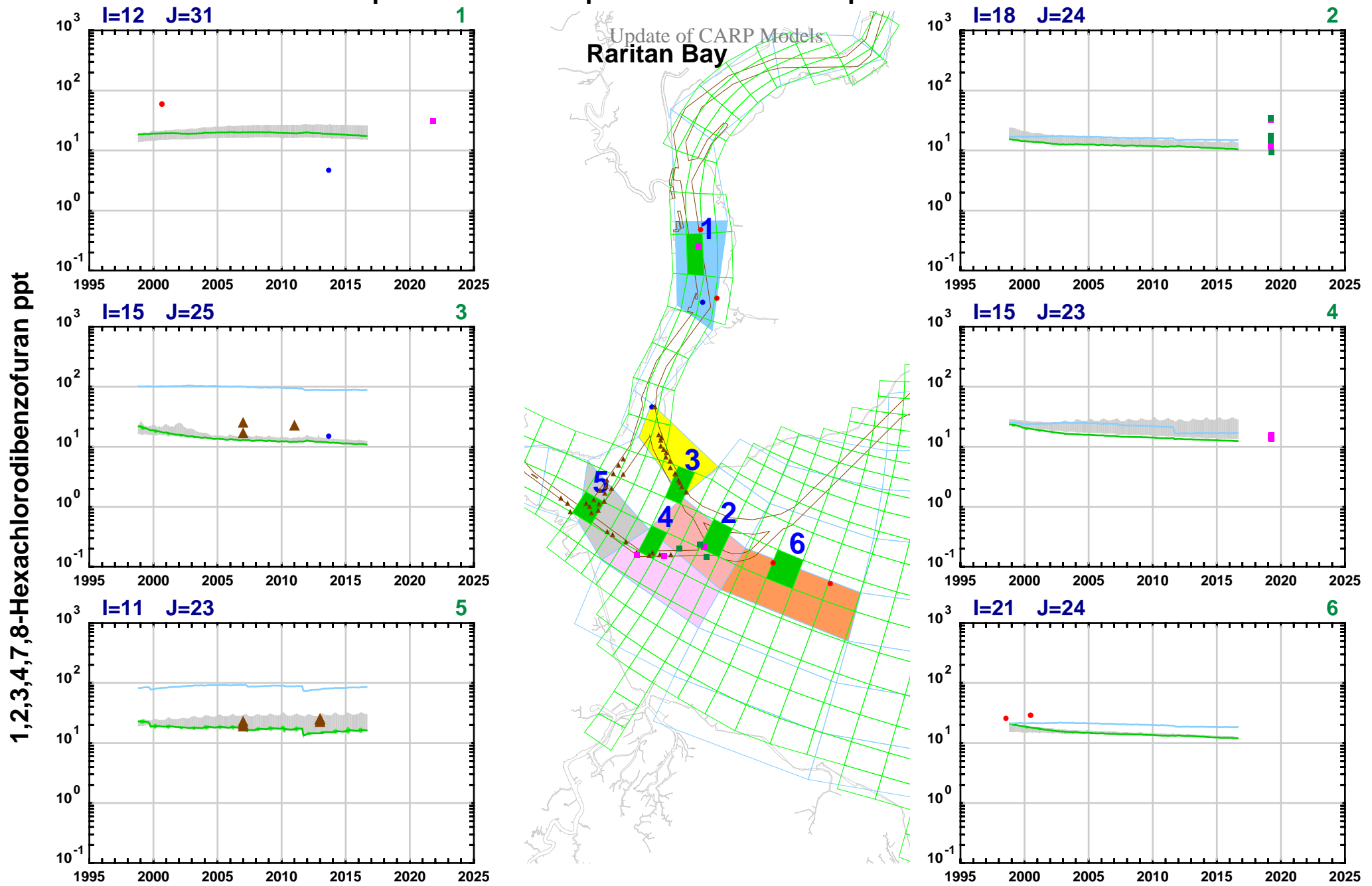


**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

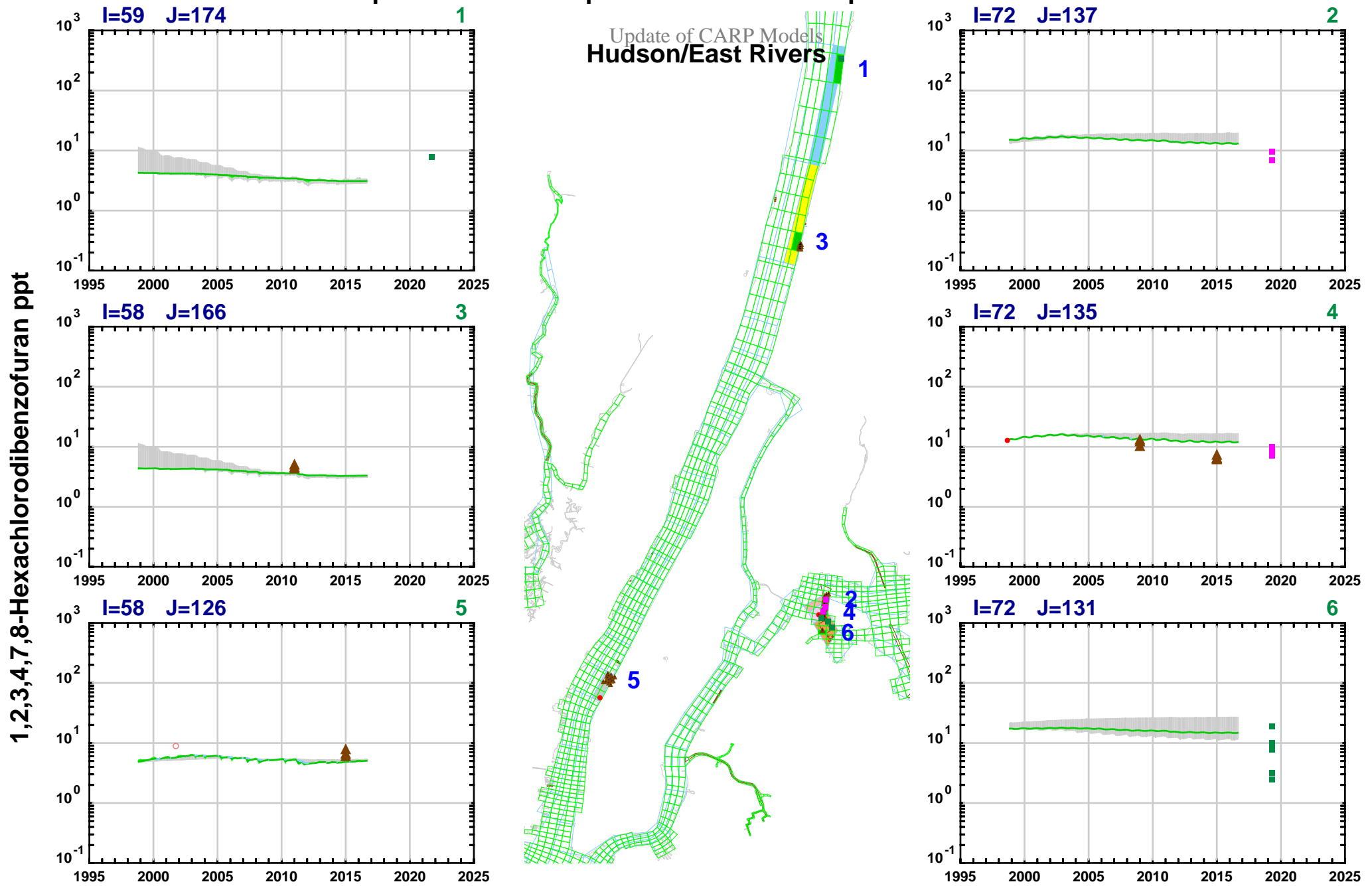


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

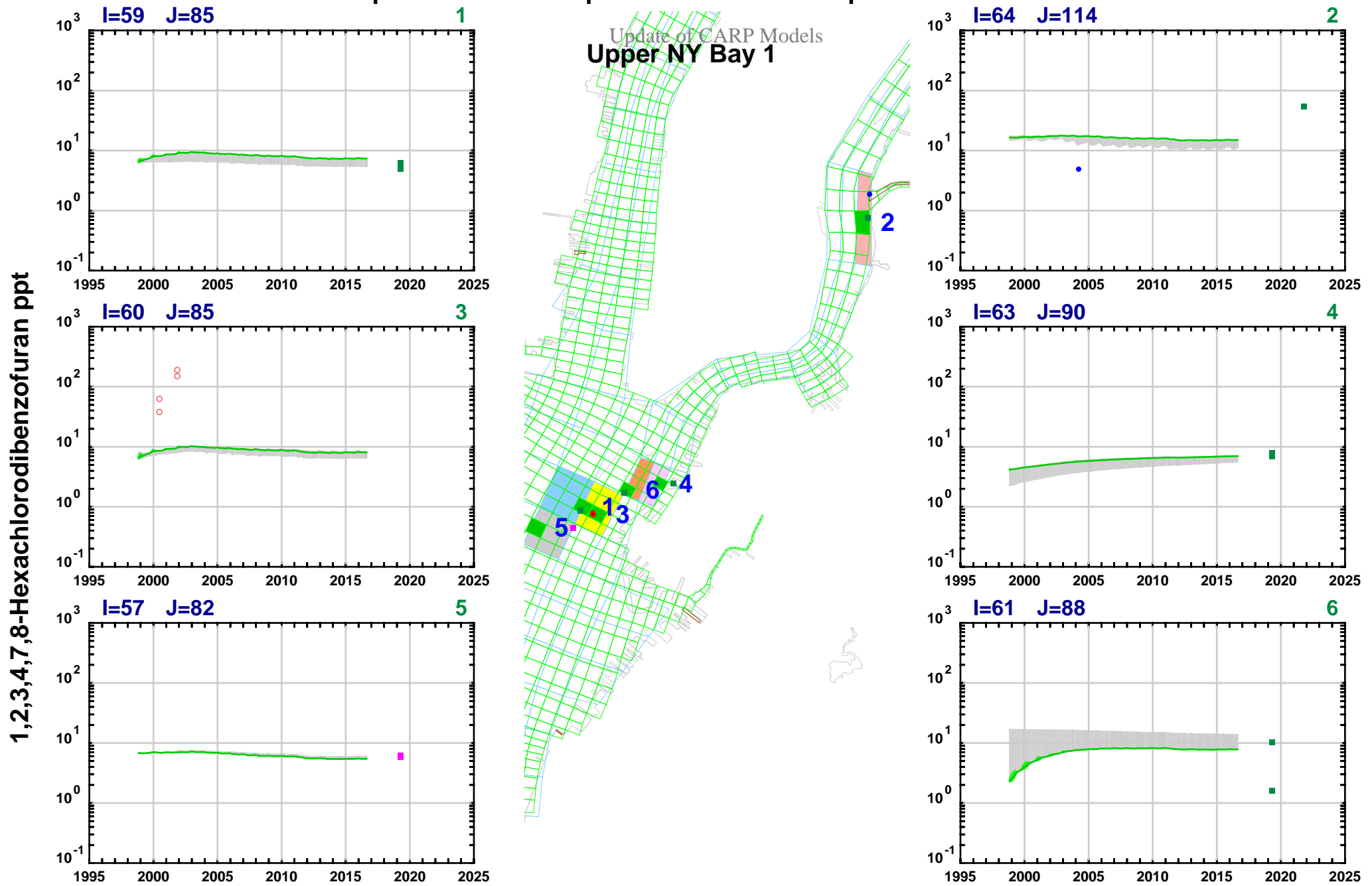


**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data ● Off-channel data ▲ Dredge data**  
**■ CARP2 In-channel ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment



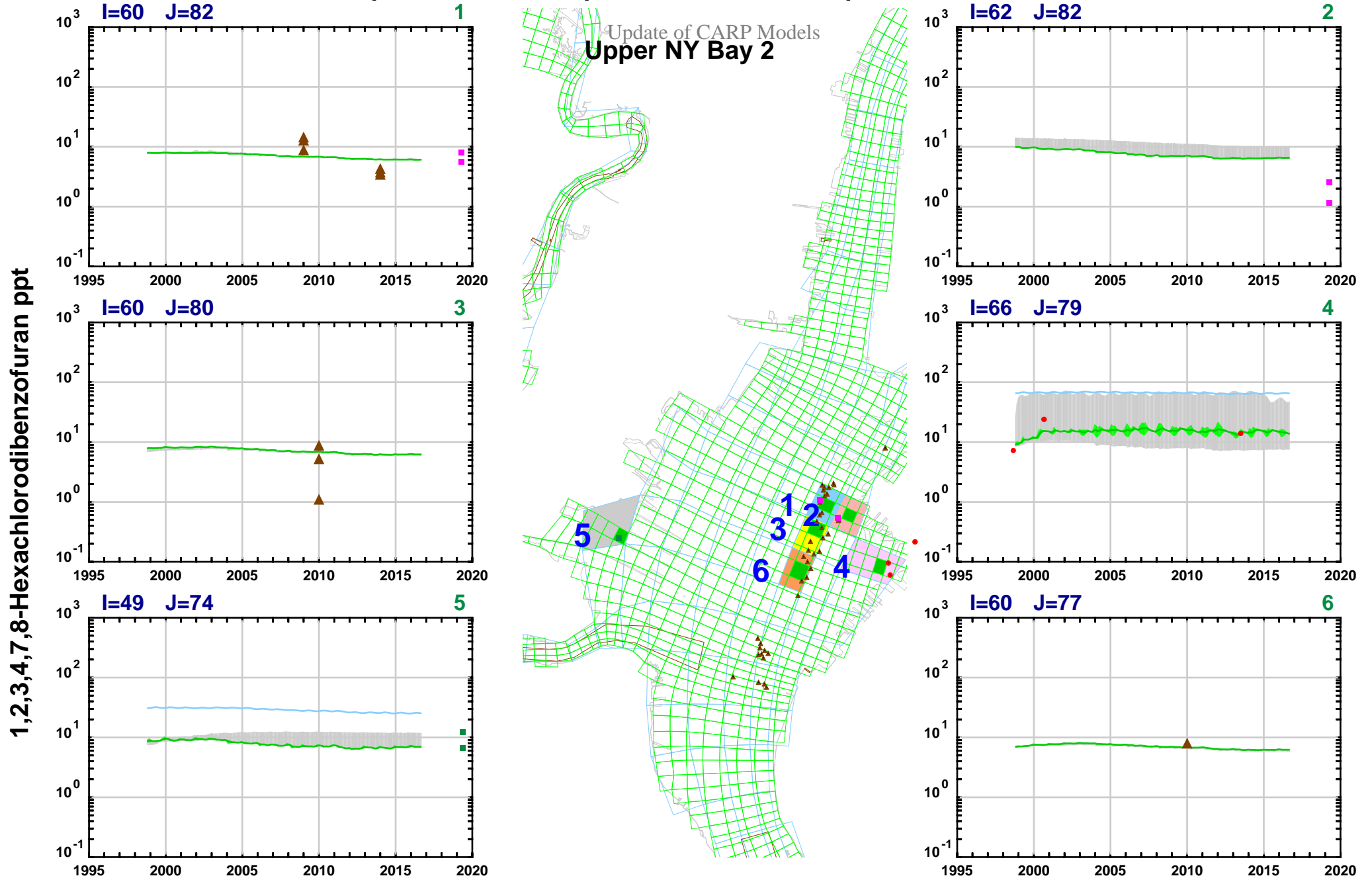
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

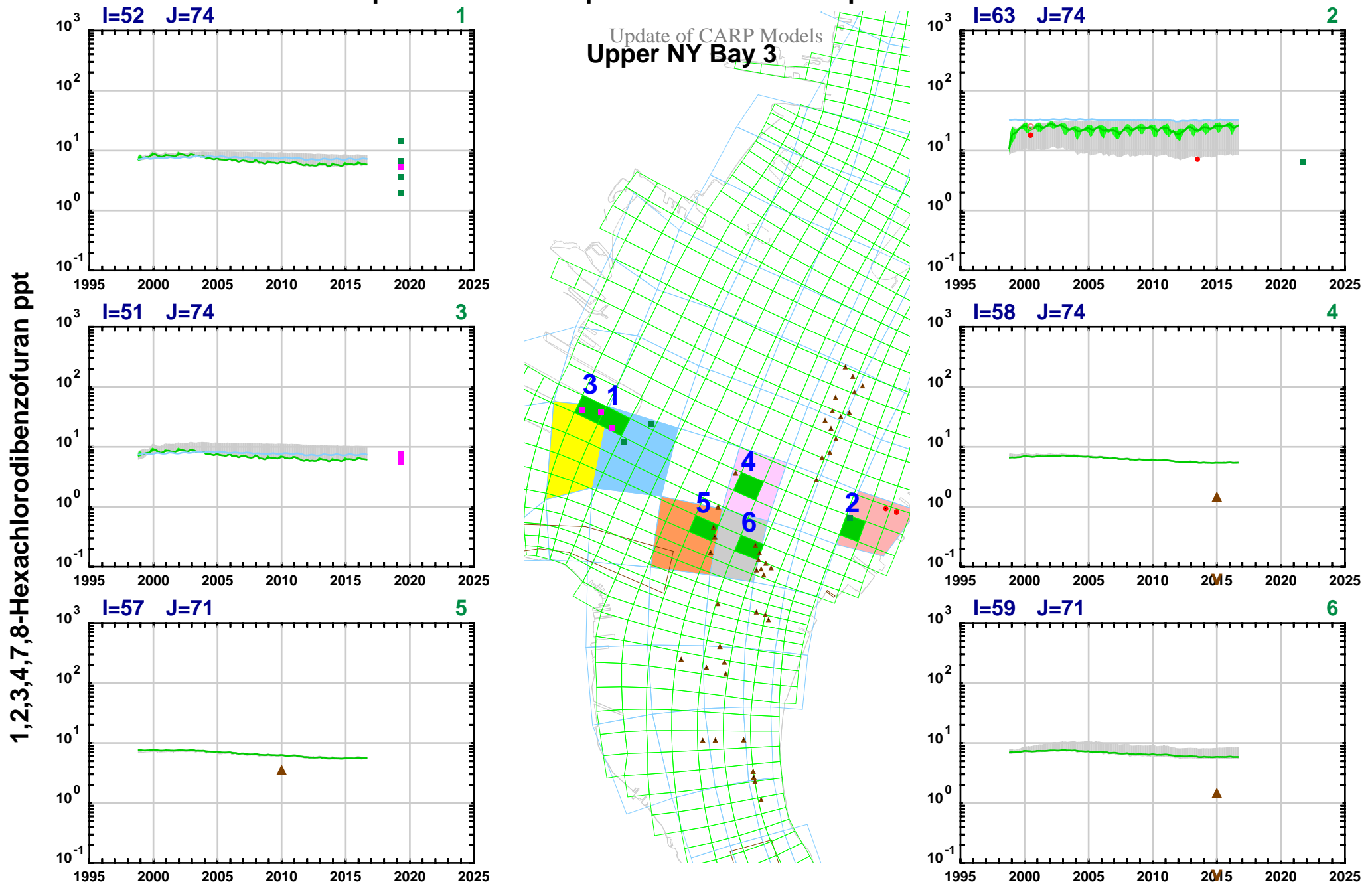


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

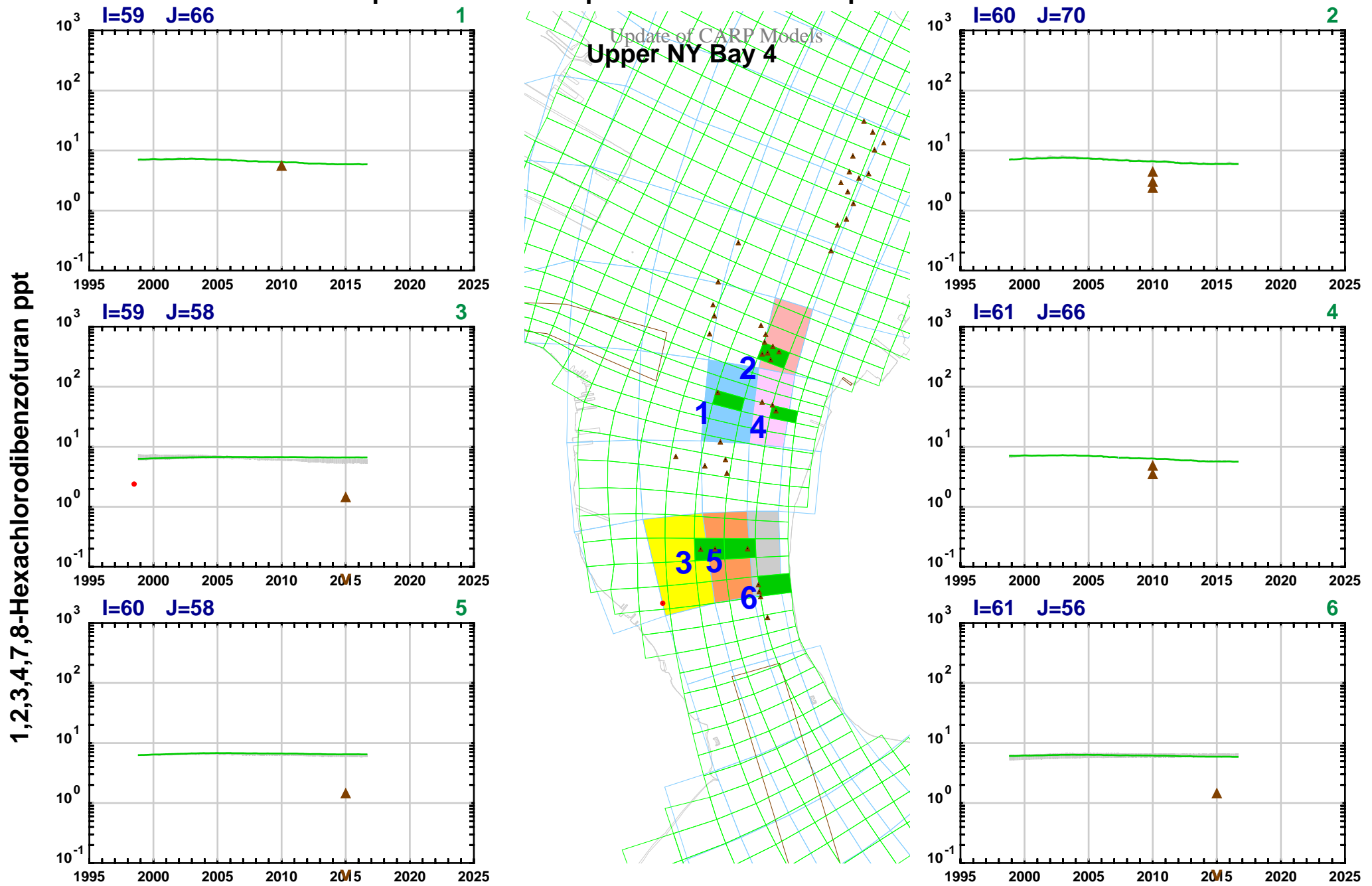


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



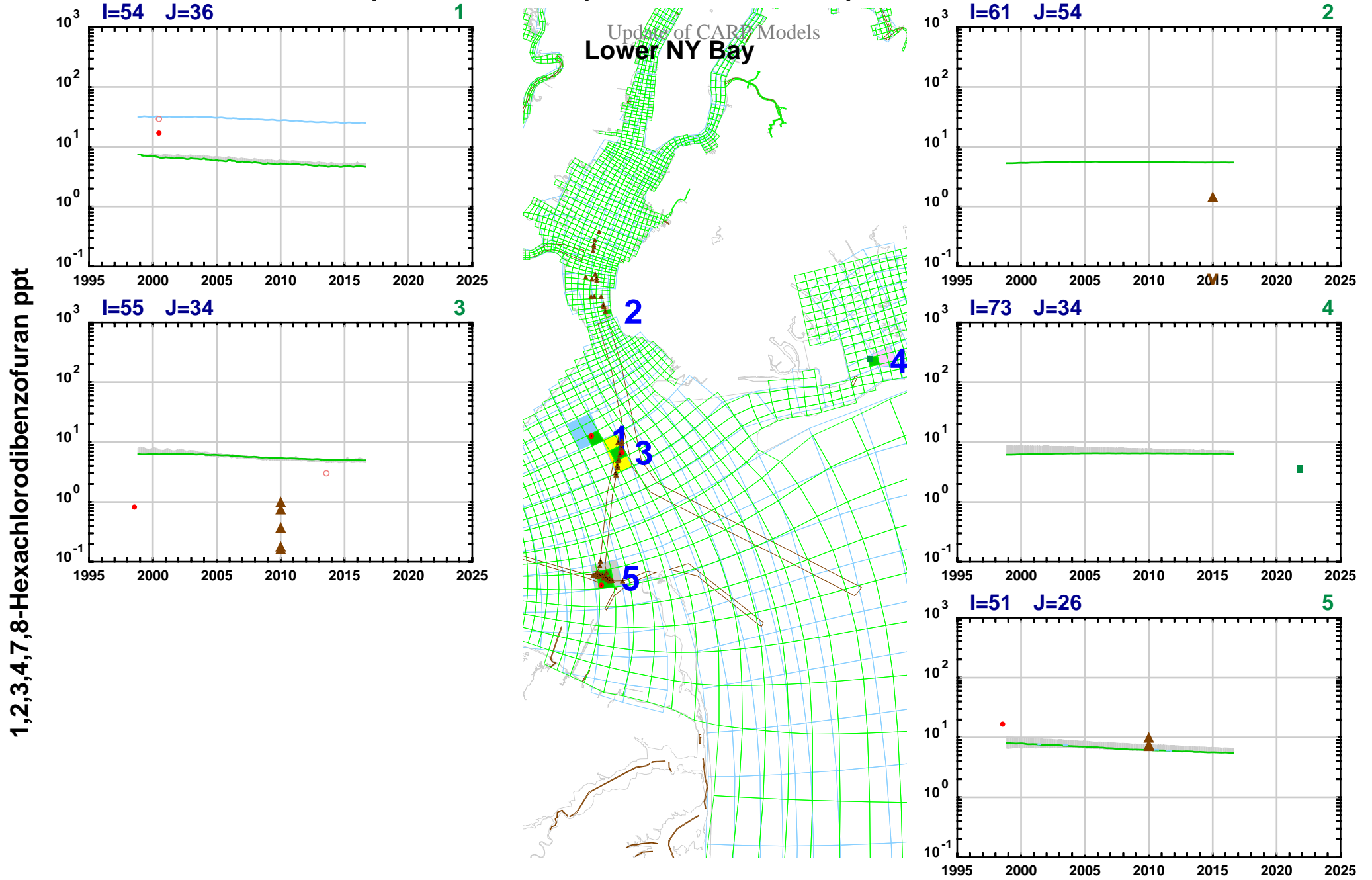
Update of CARP Models  
Upper NY Bay 4

RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

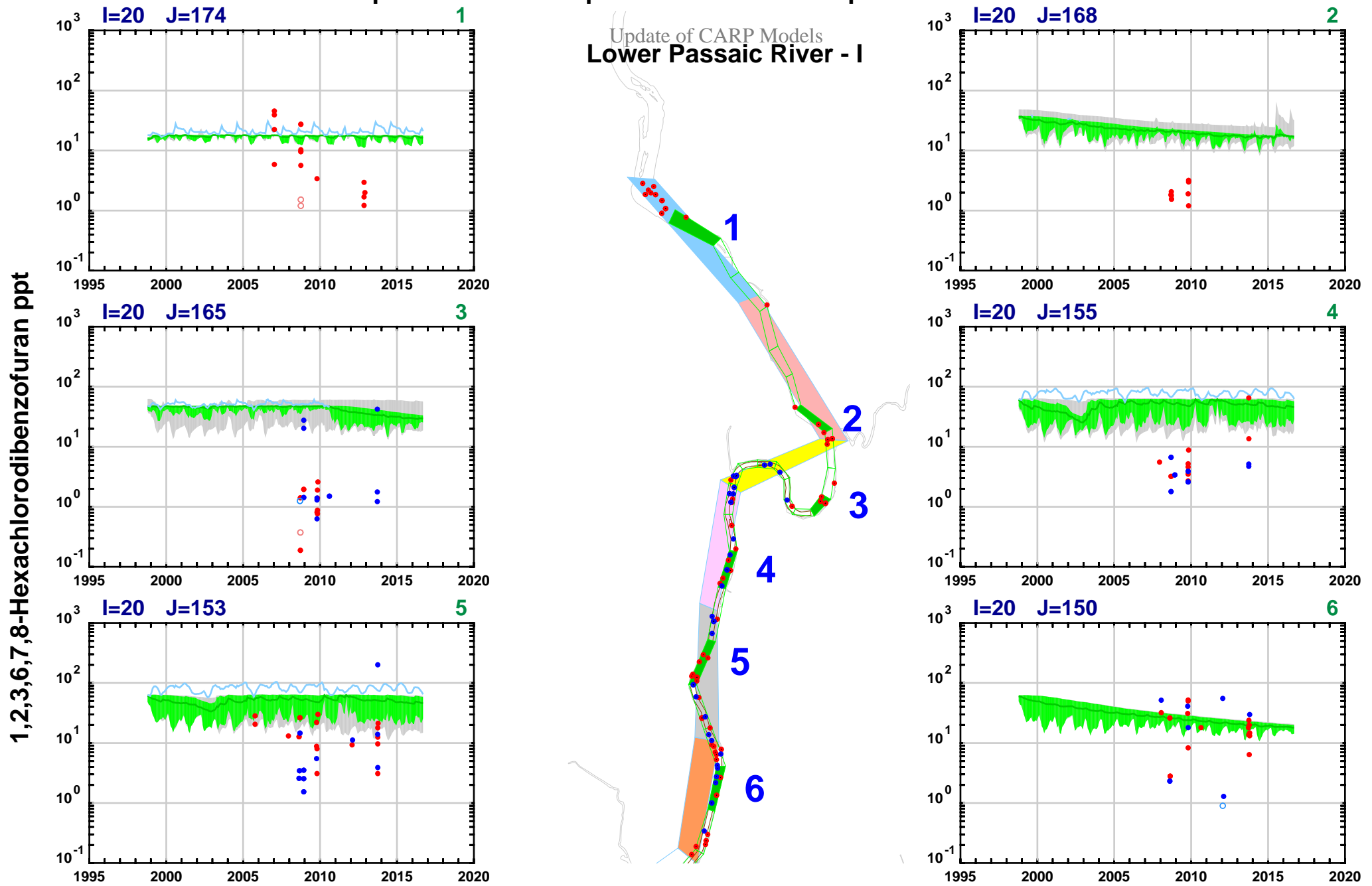


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

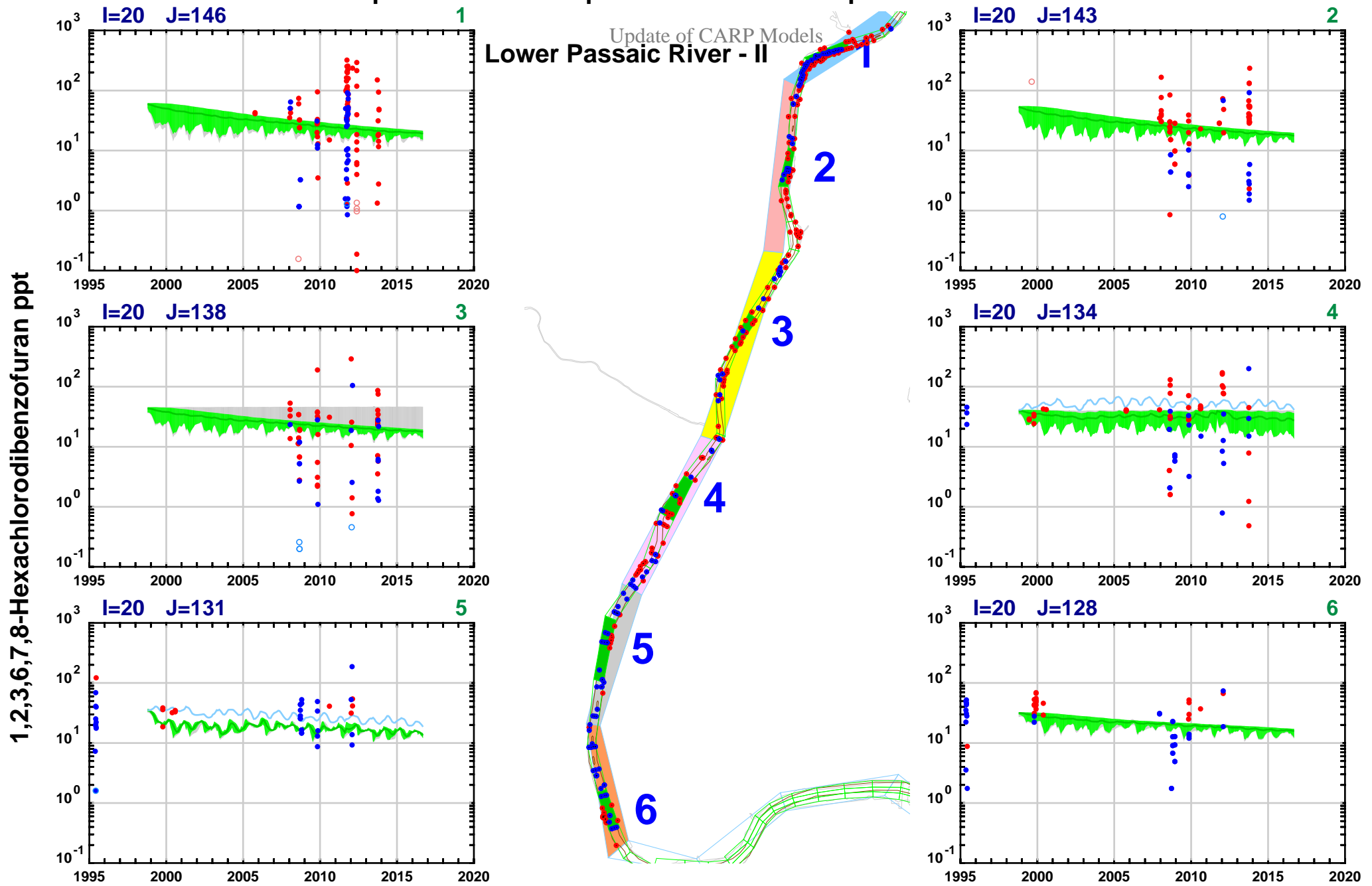


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

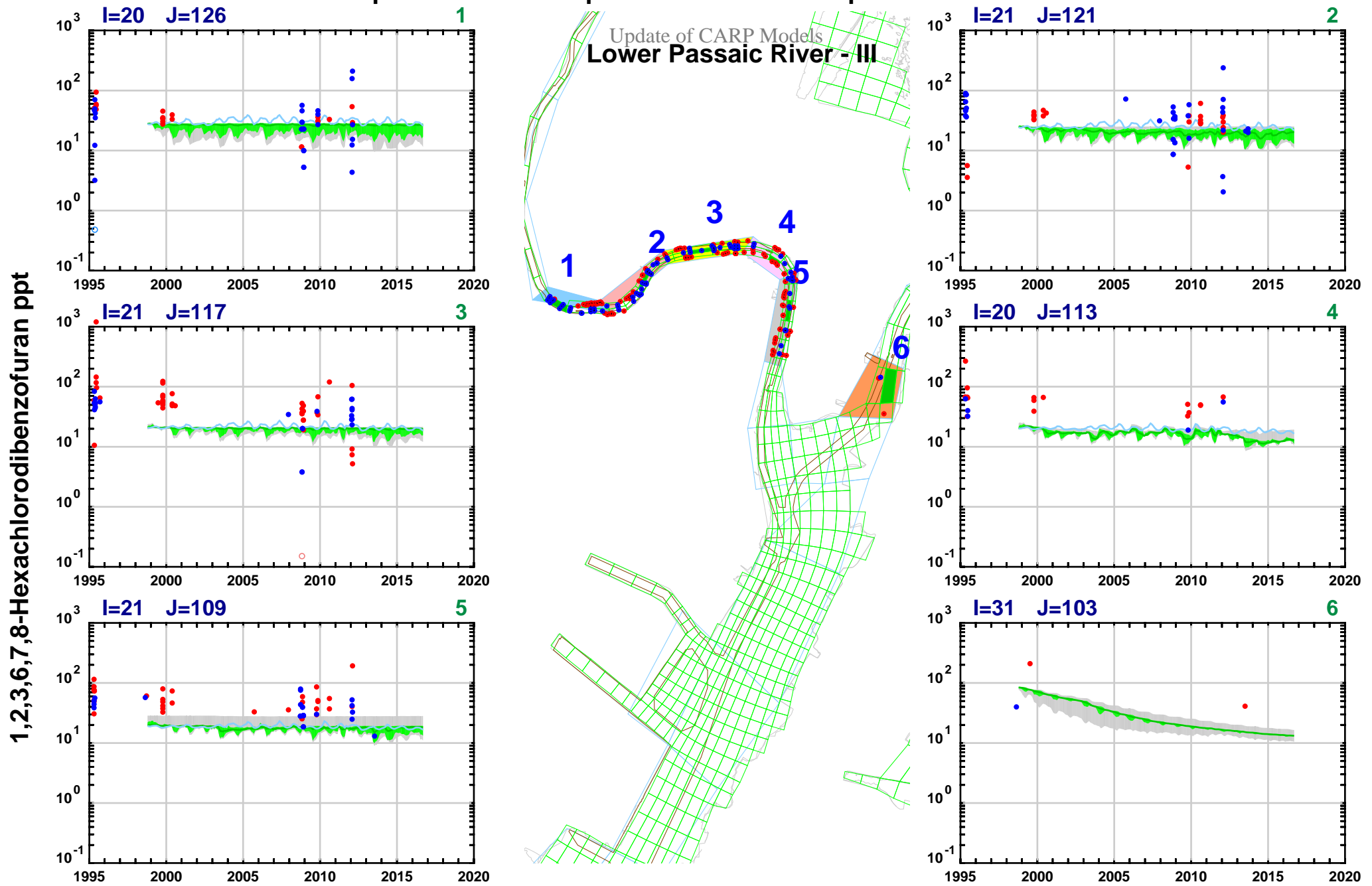
# Top 15 cm data comparison with model top 10 cm sediment



RUN18\_S5\_R2



# Top 15 cm data comparison with model top 10 cm sediment



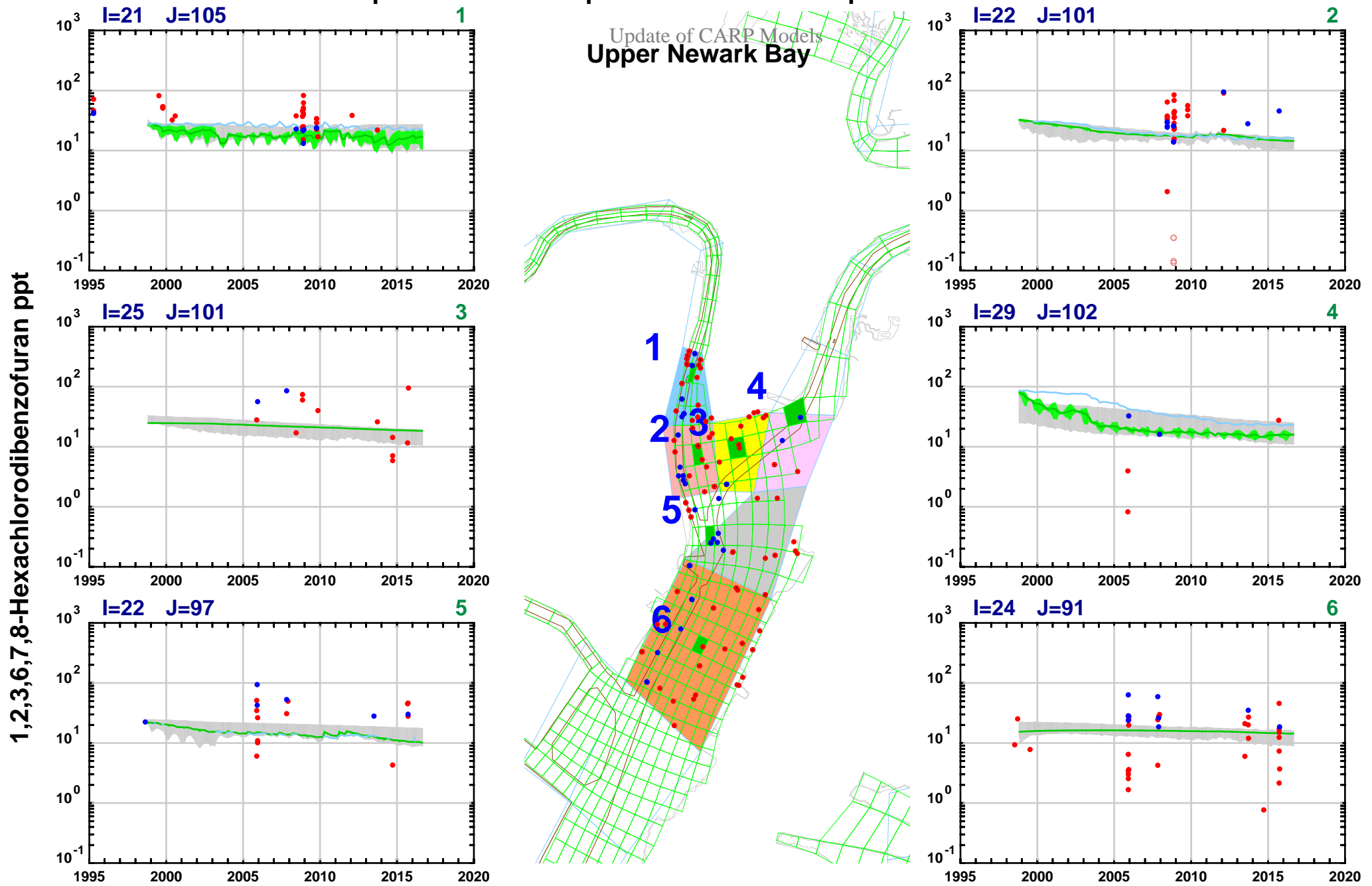
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

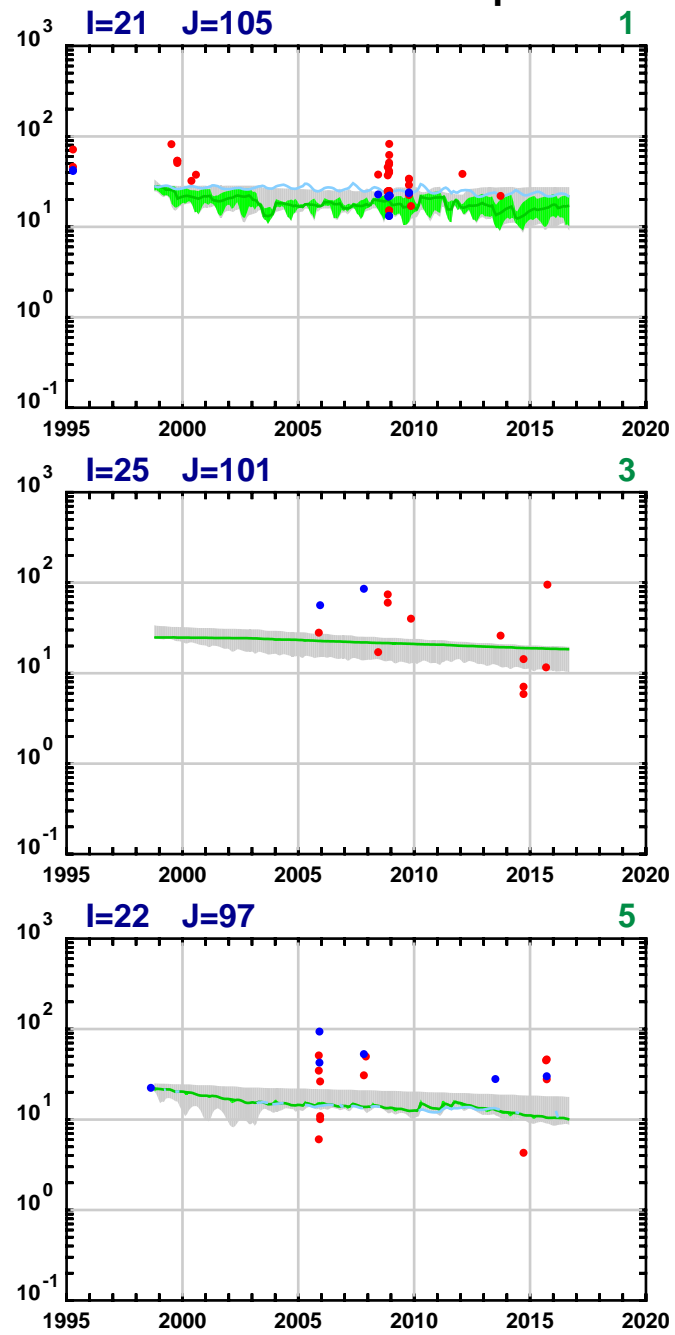


# Top 15 cm data comparison with model top 10 cm sediment



1,2,3,6,7,8-Hexachlorodibenzofuran ppt

Update of CARP Models  
Upper Newark Bay

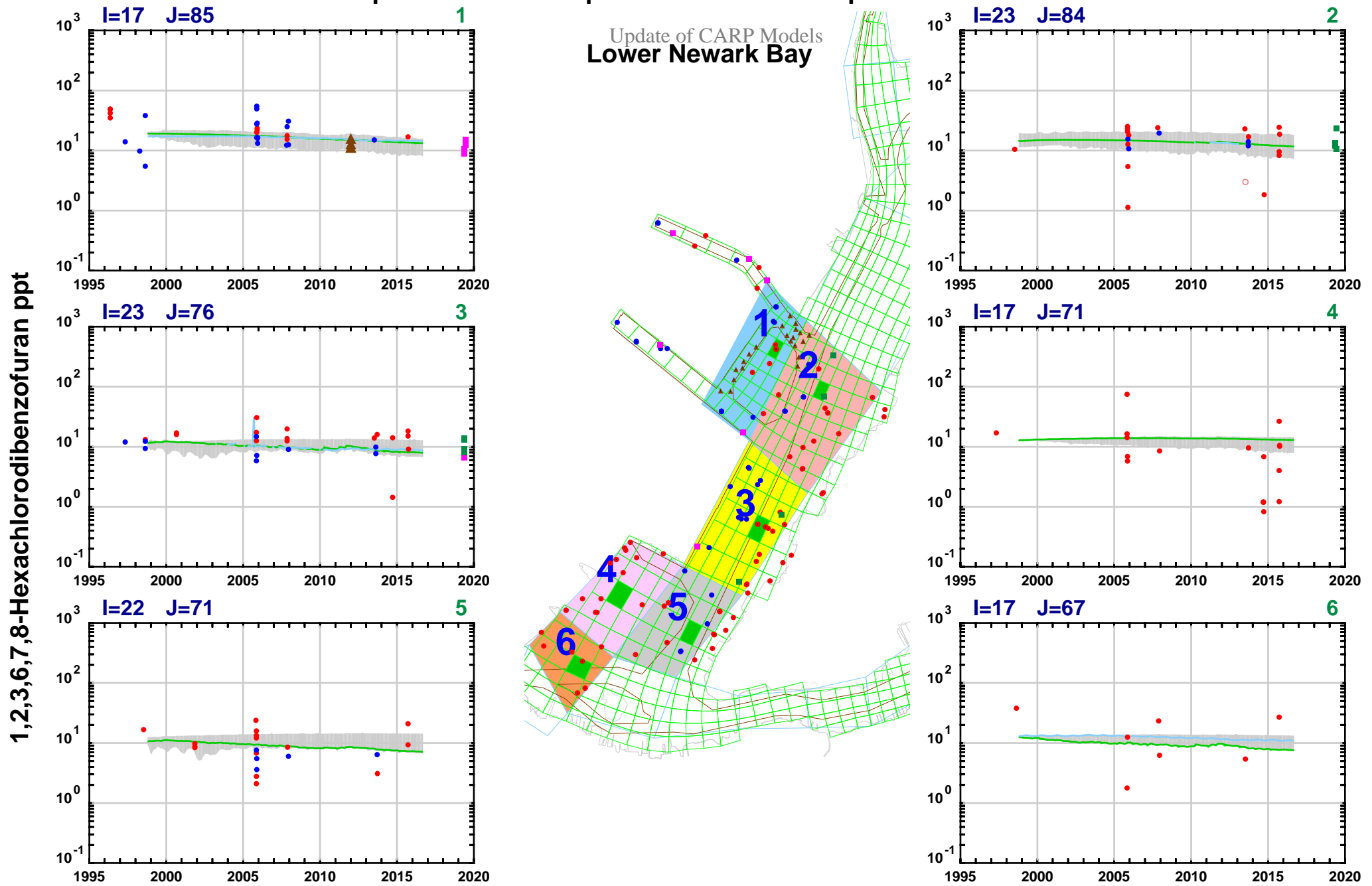


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

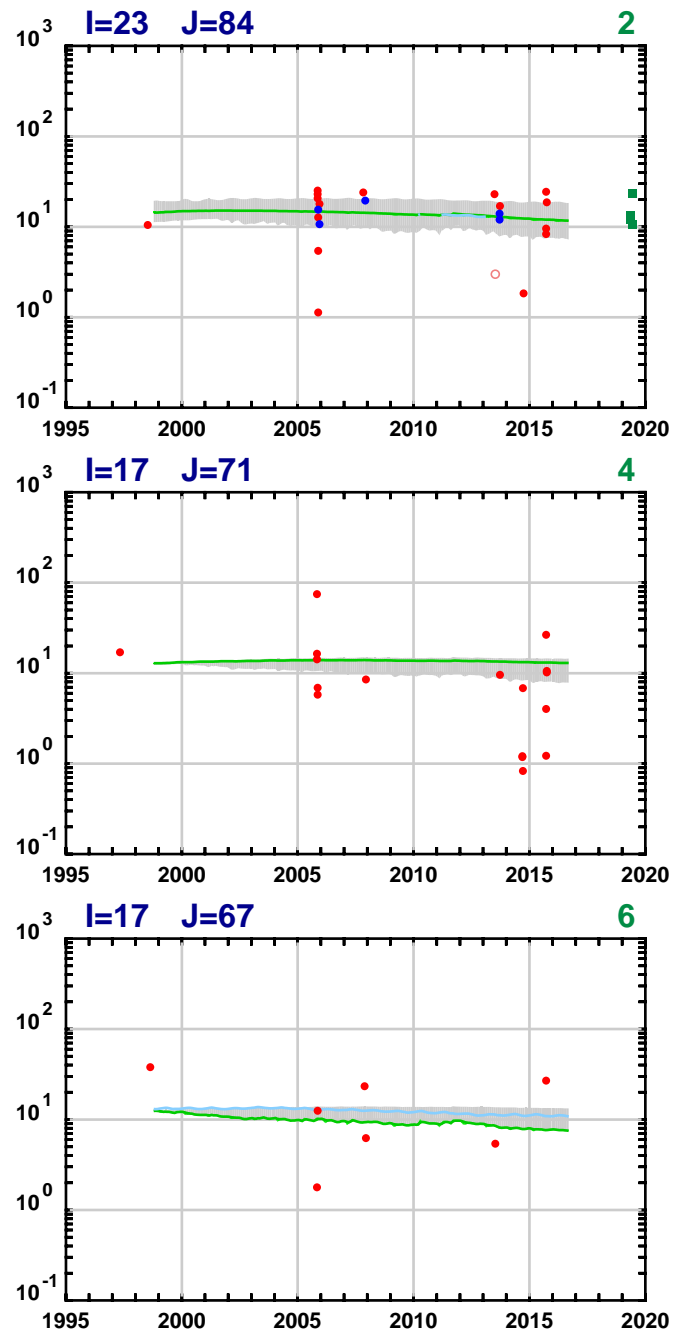
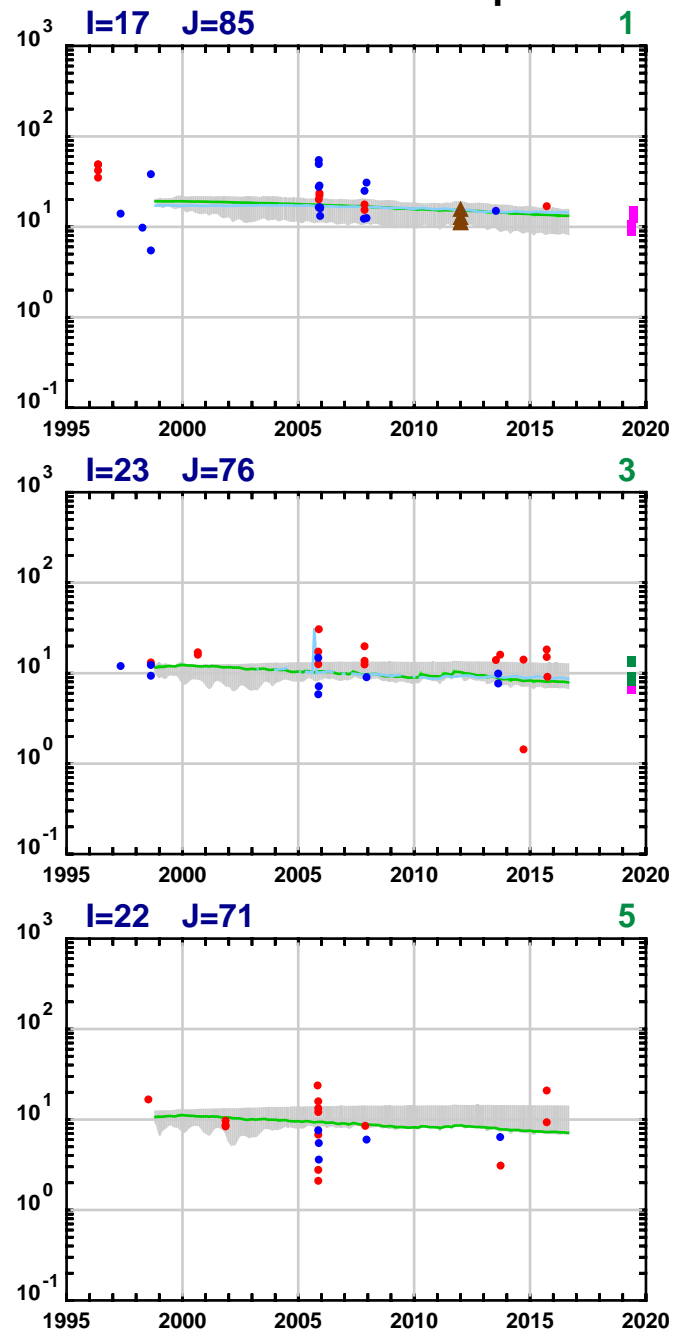
● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



Update of CARP Models  
Lower Newark Bay

1,2,3,6,7,8-Hexachlorodibenzofuran ppt



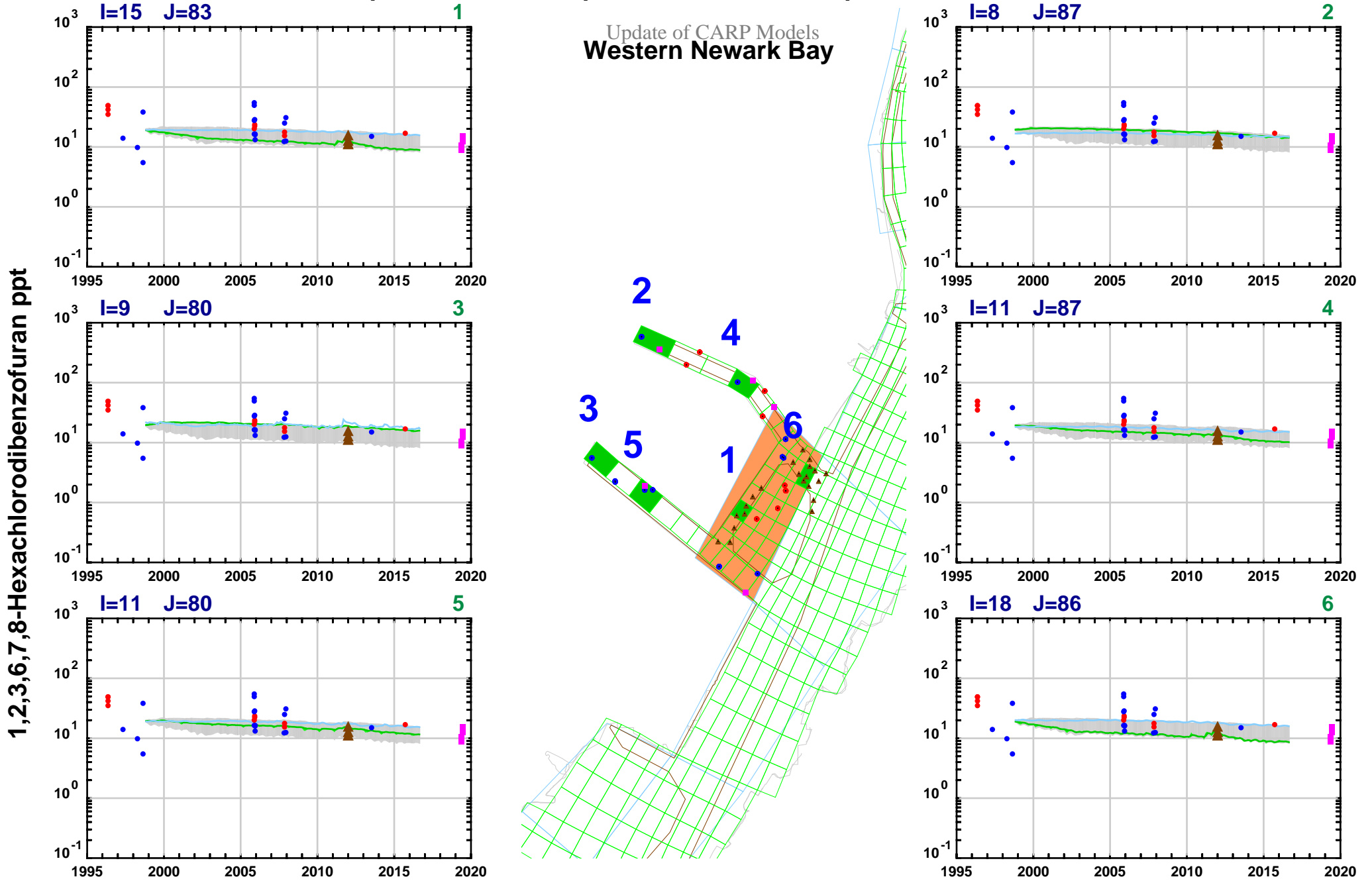
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

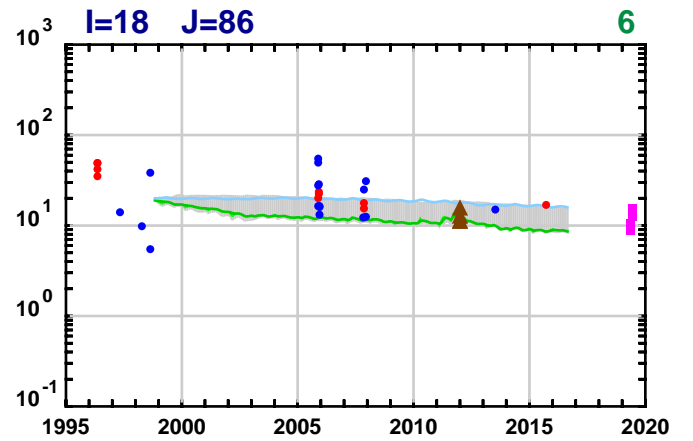
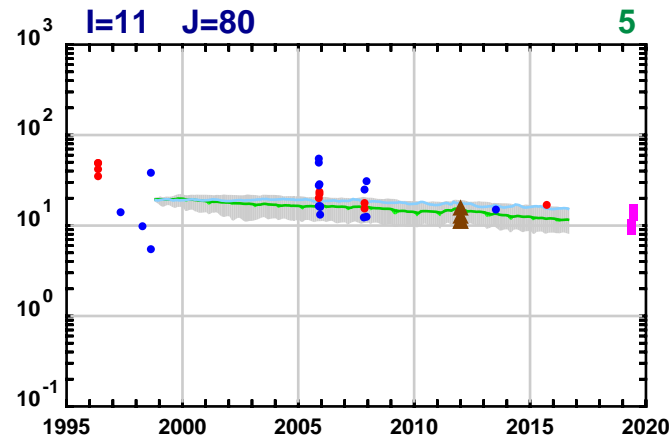
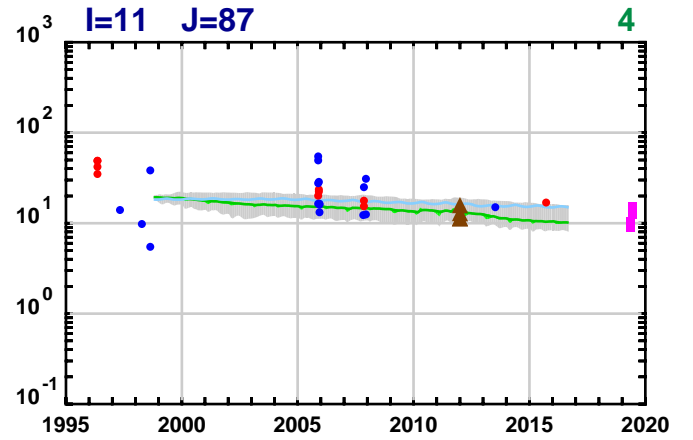
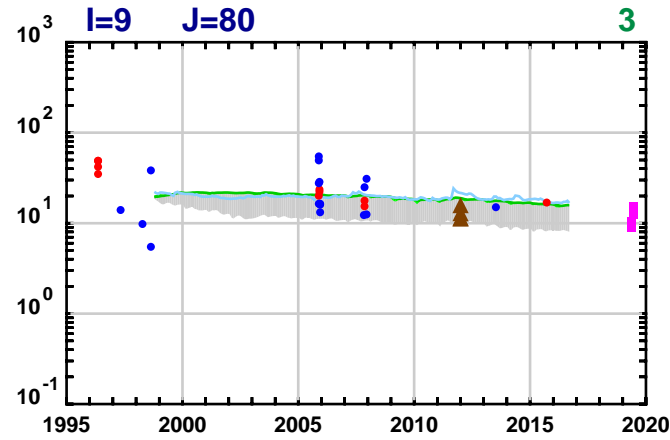
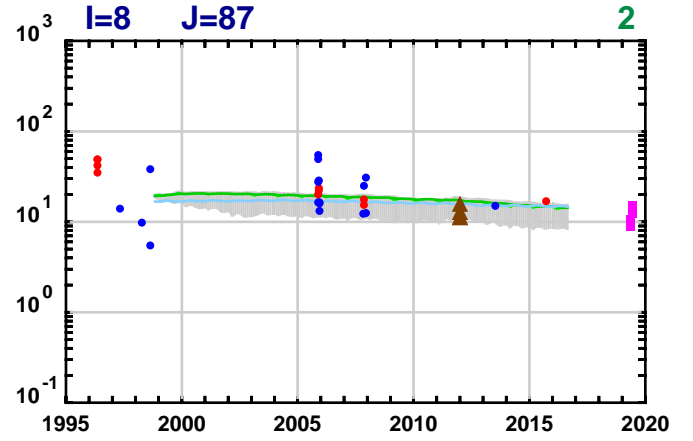
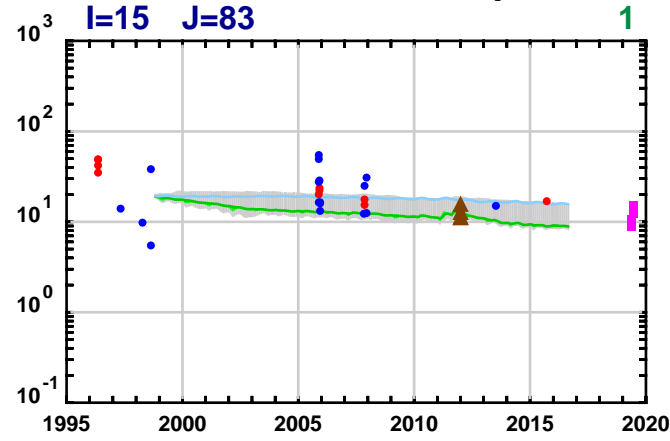
● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay



1,2,3,6,7,8-Hexachlorodibenzofuran ppt



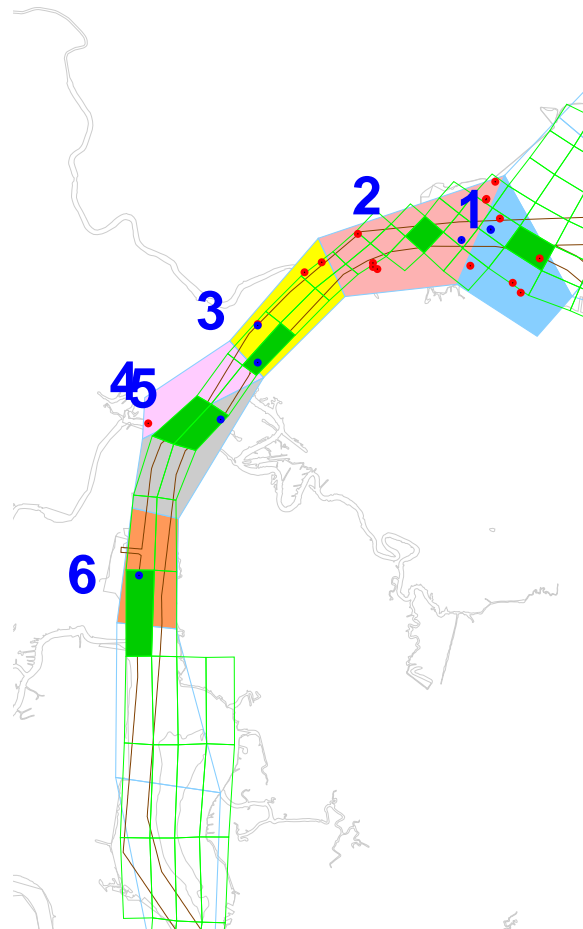
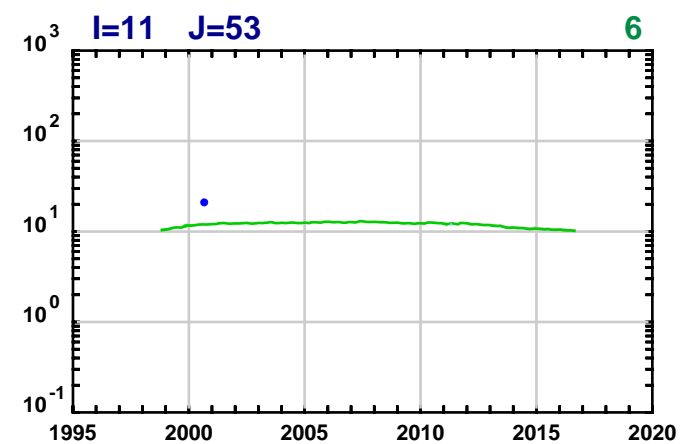
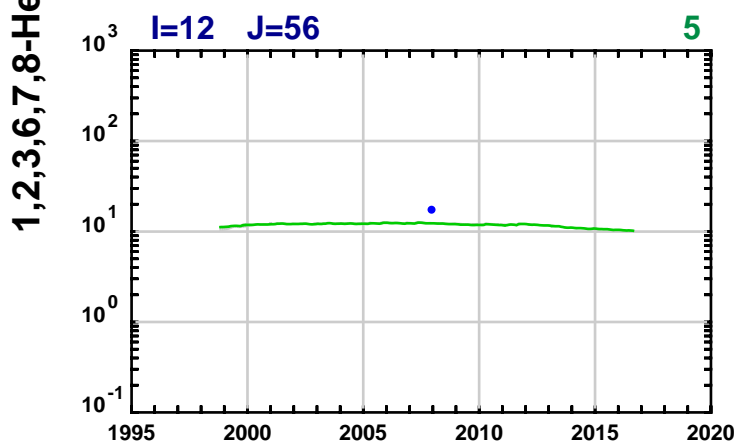
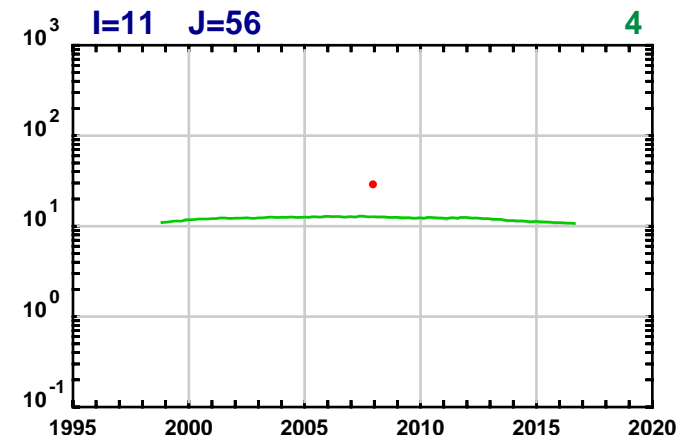
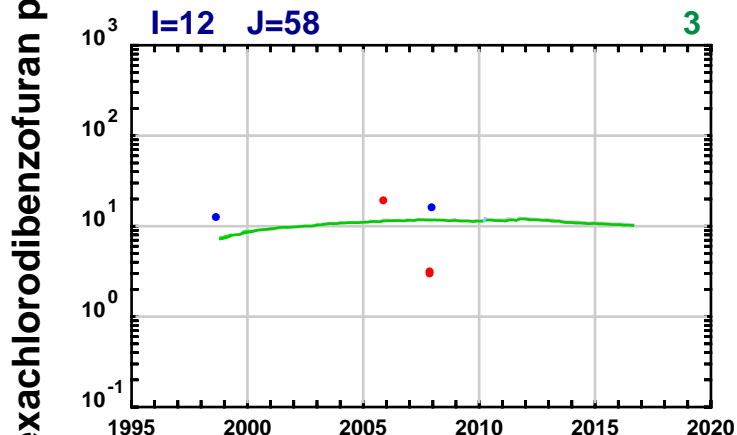
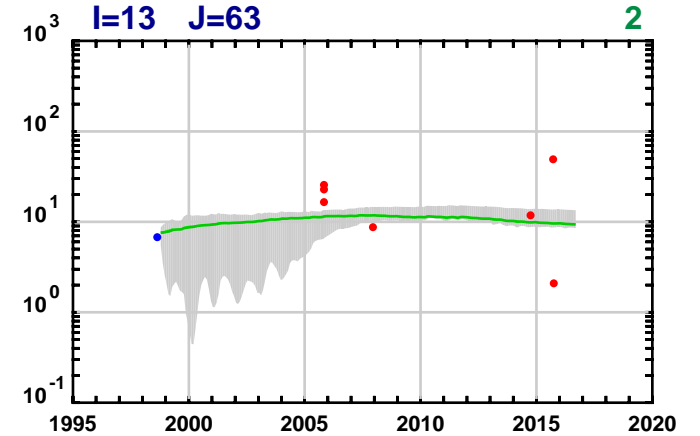
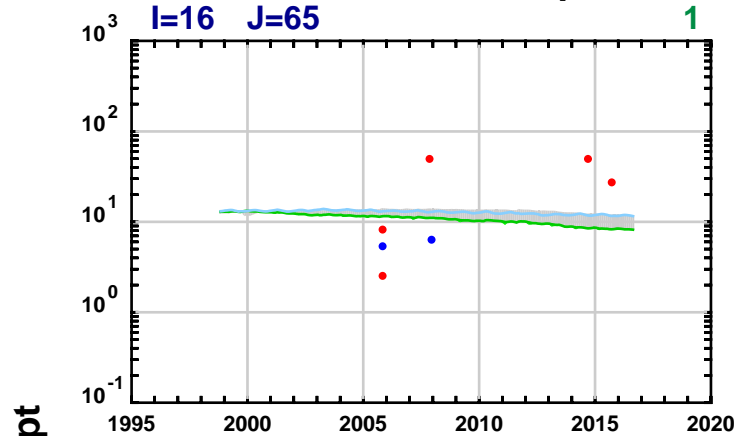
**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1



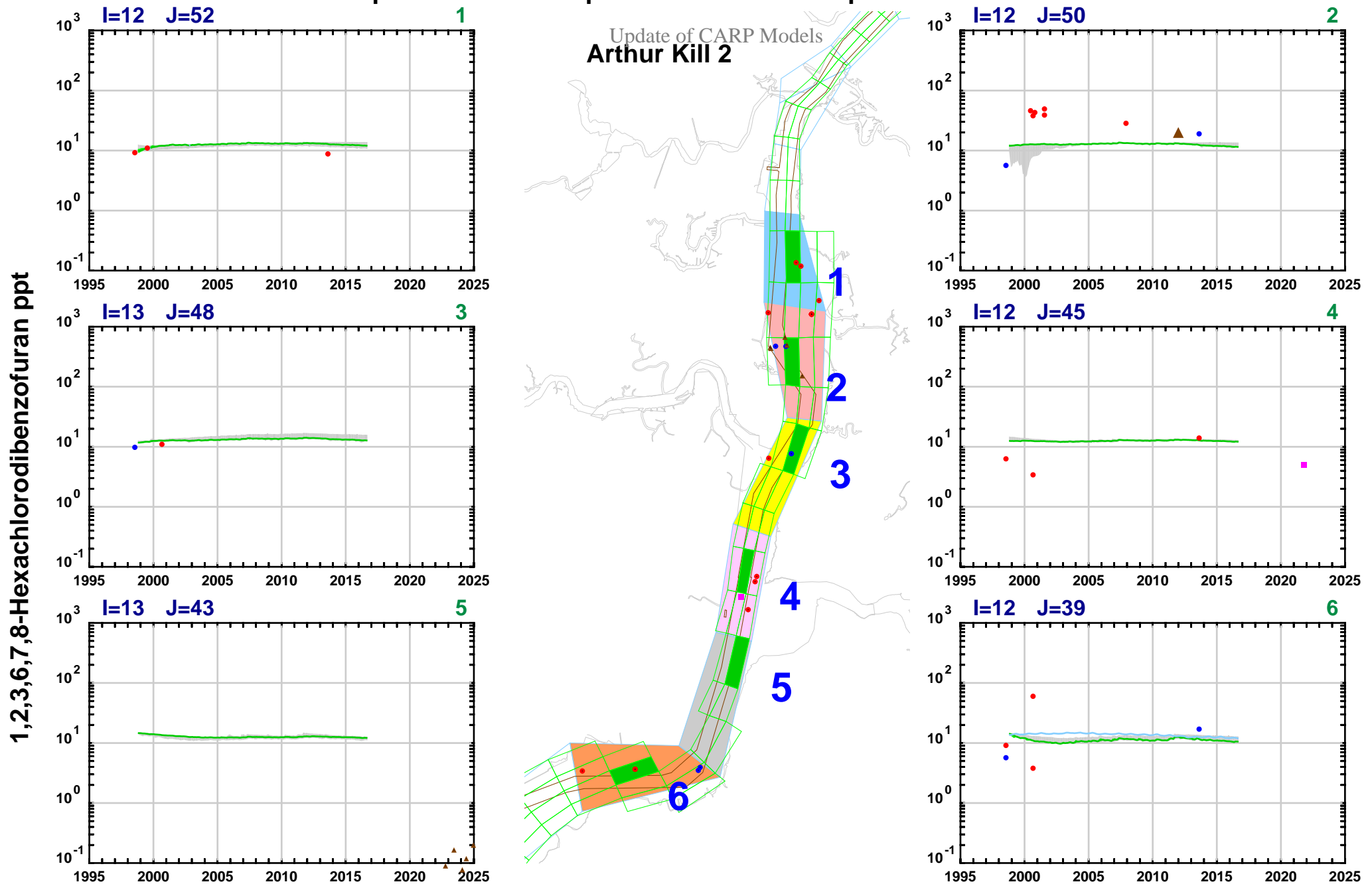
1,2,3,6,7,8-Hexachlorodibenzofuran ppt

RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

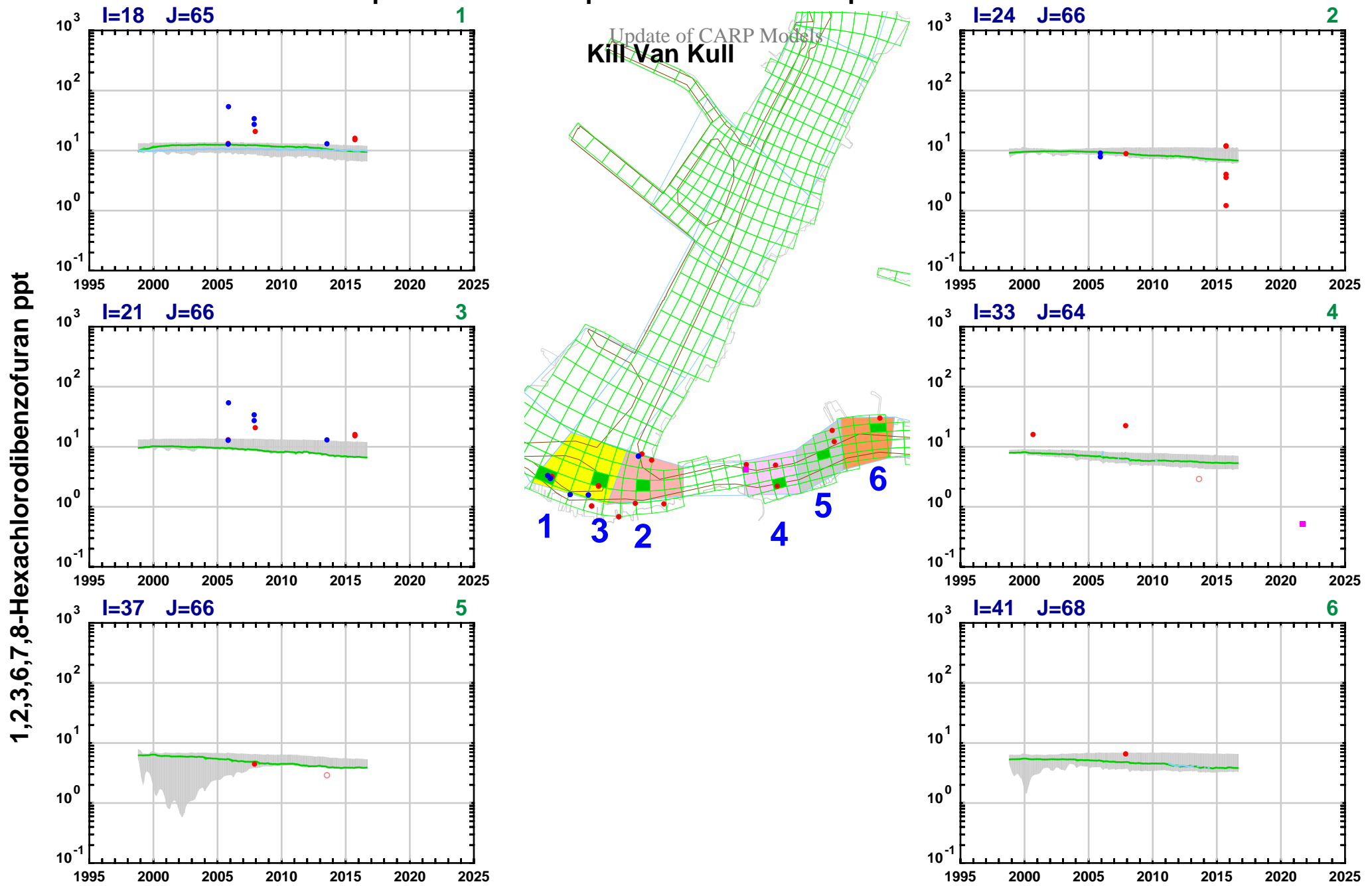


**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

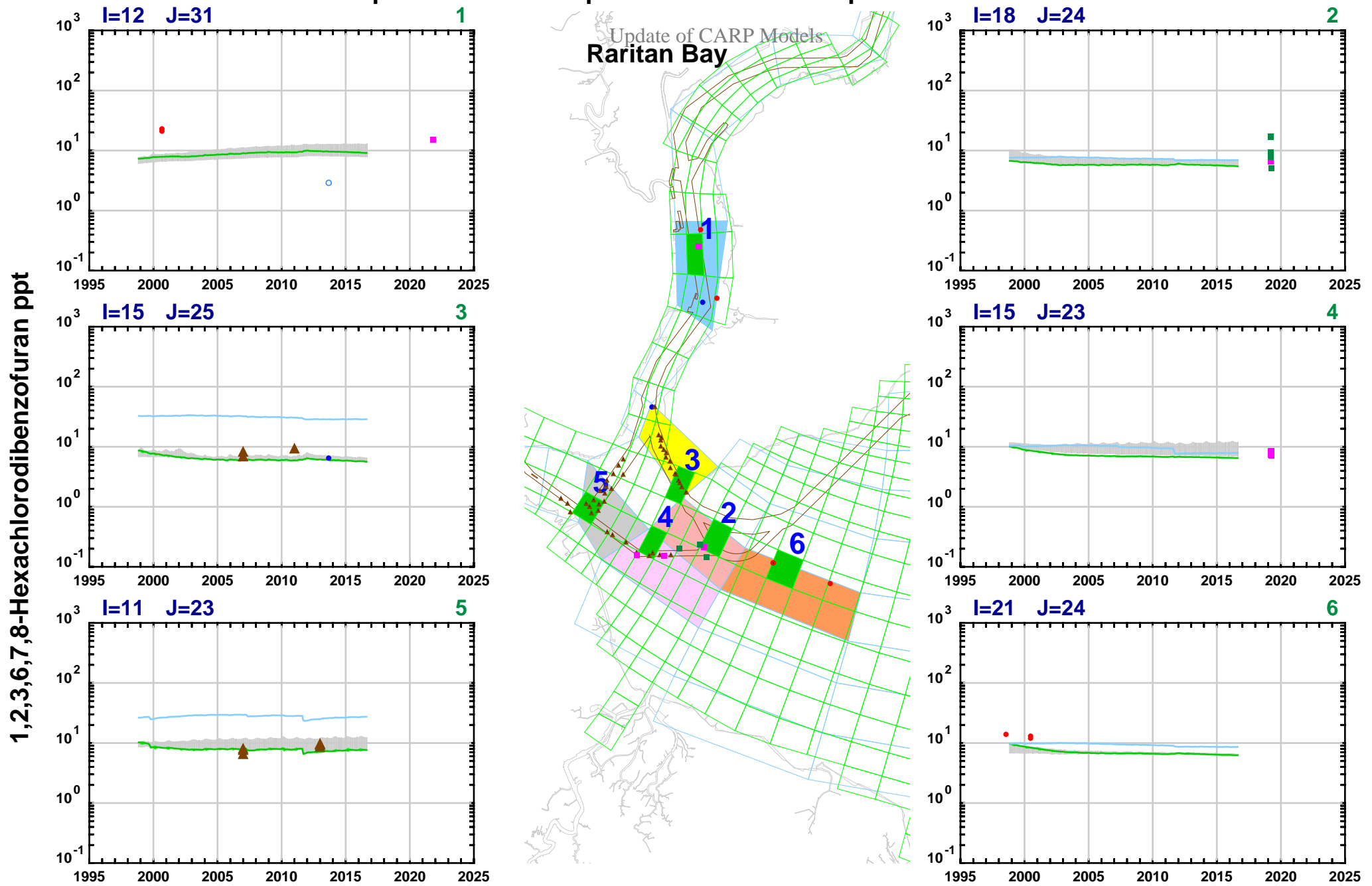


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



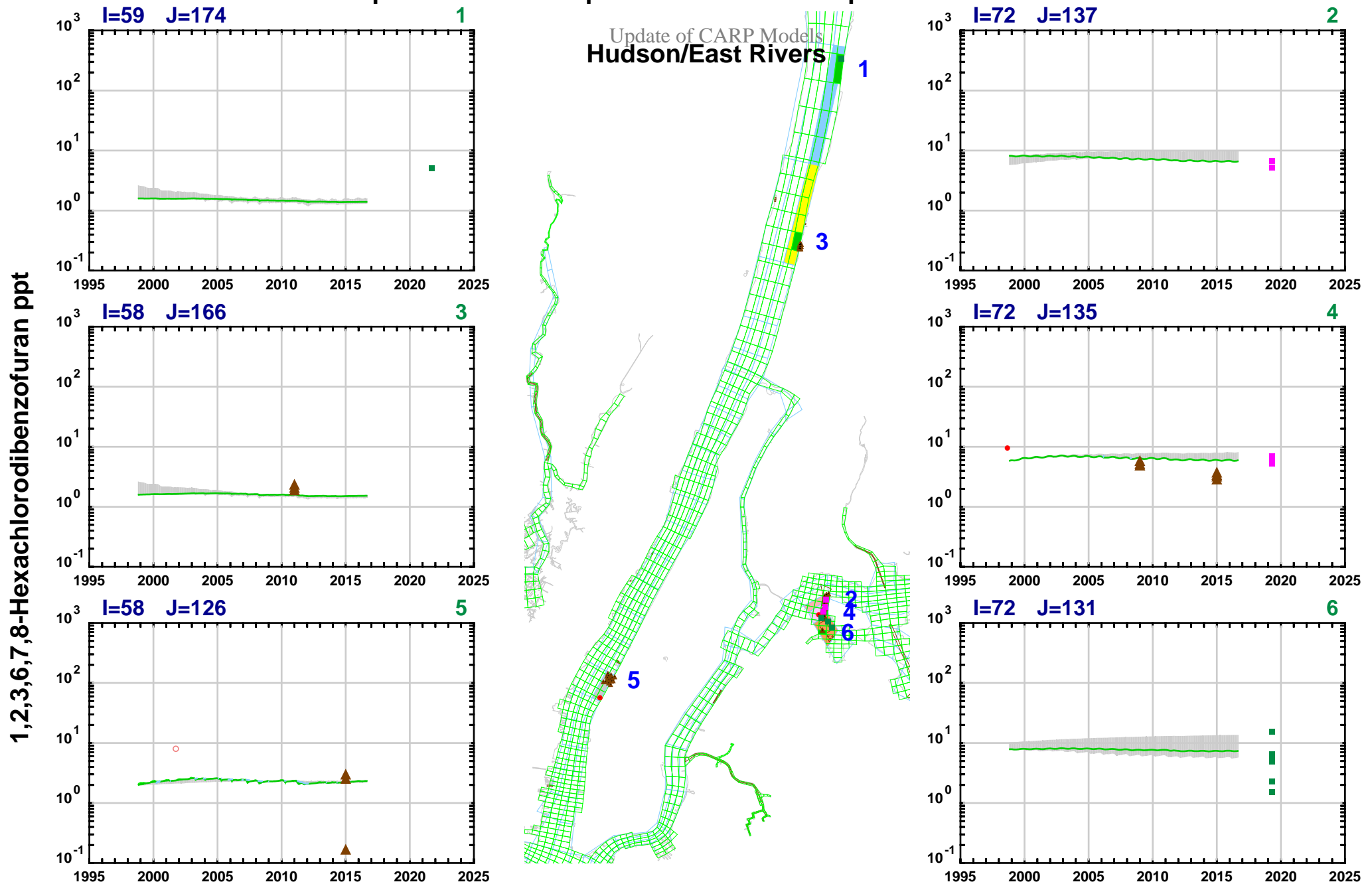
**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data**    **● Off-channel data**    **▲ Dredge data**  
**■ CARP2 In-channel**    **■ CARP2 Off-channel**



# Top 15 cm data comparison with model top 10 cm sediment



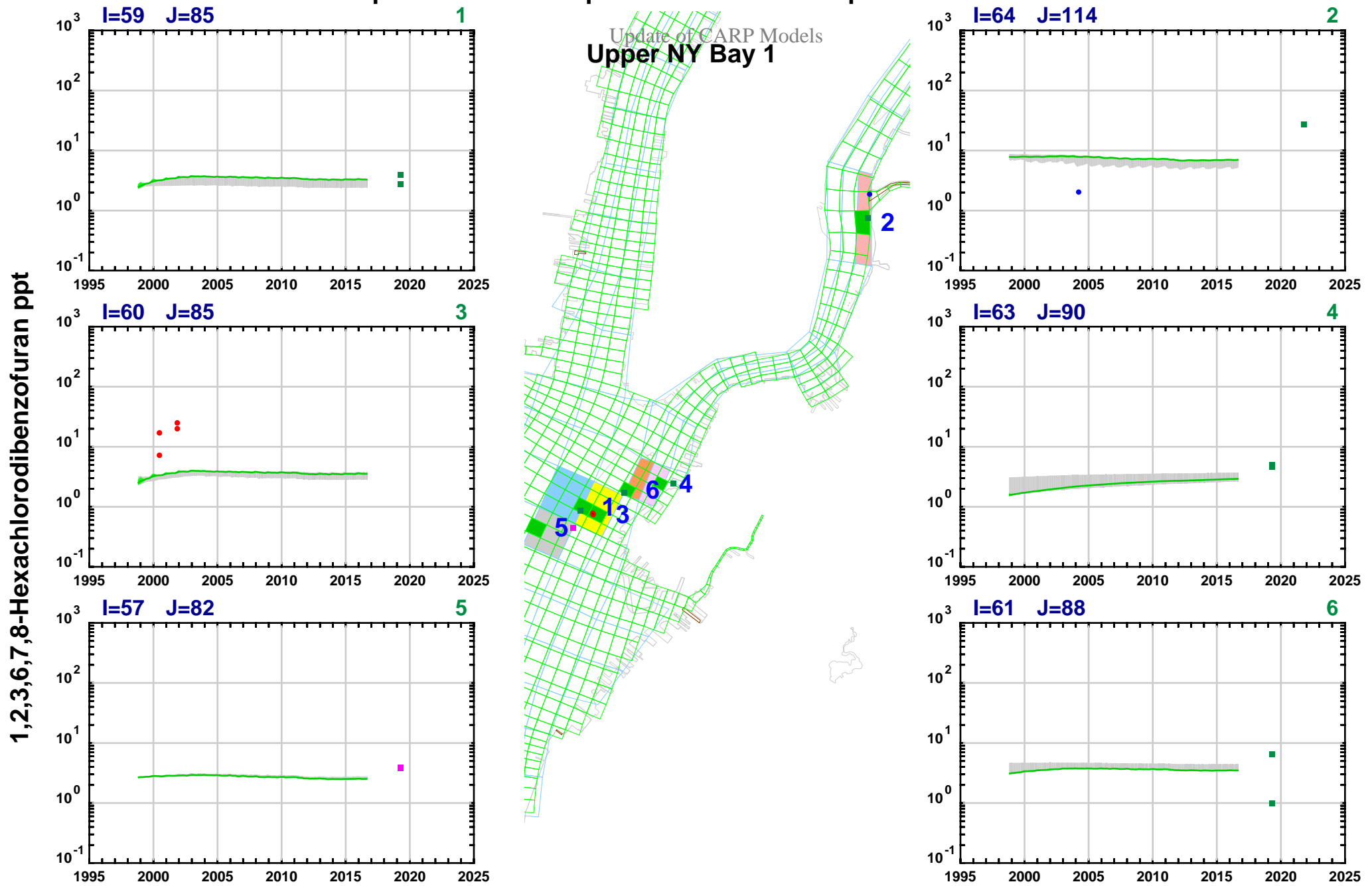
Update of CARP Models  
Hudson/East Rivers

RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



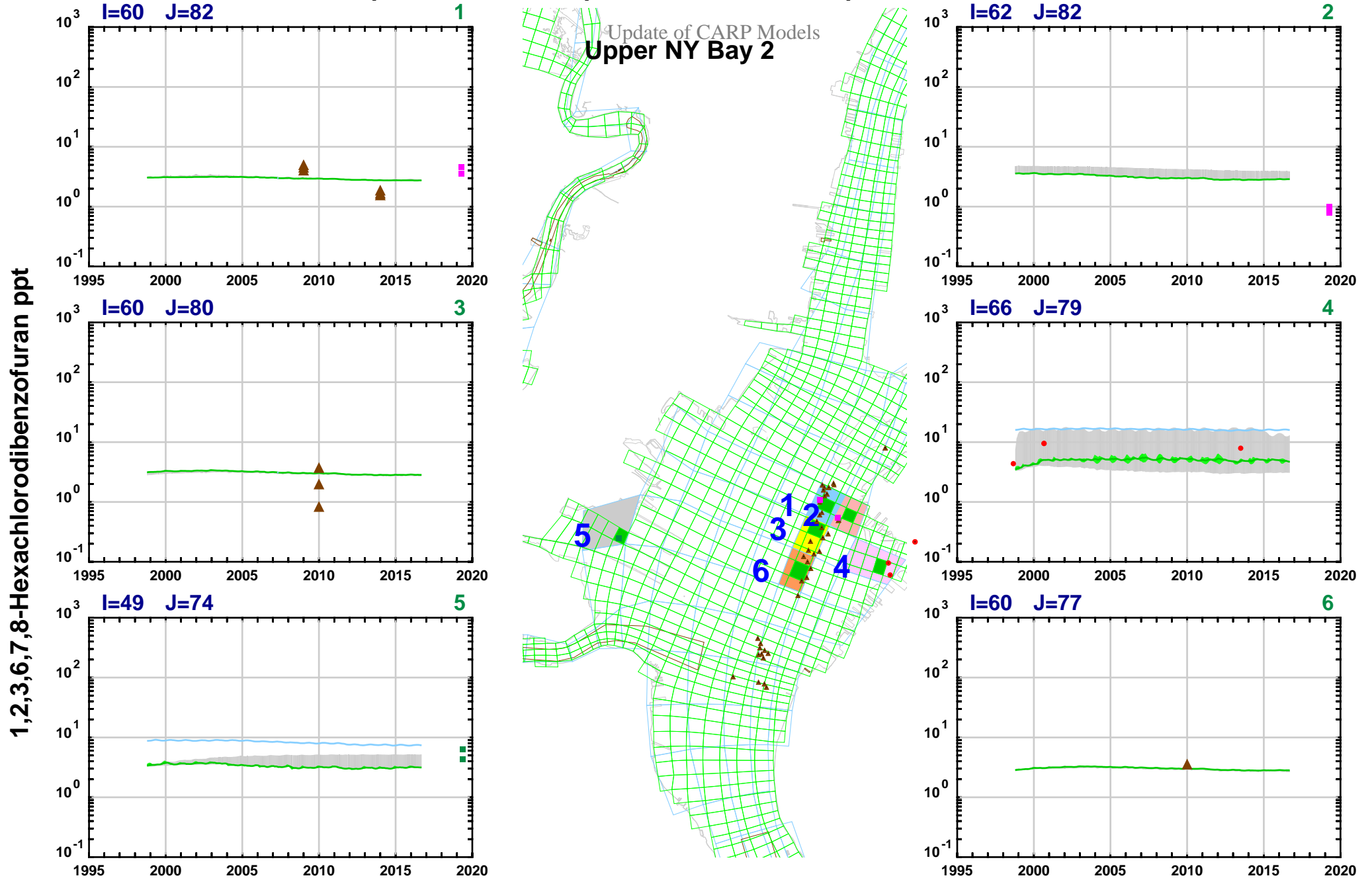
1,2,3,6,7,8-Hexachlorodibenzofuran ppt

**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



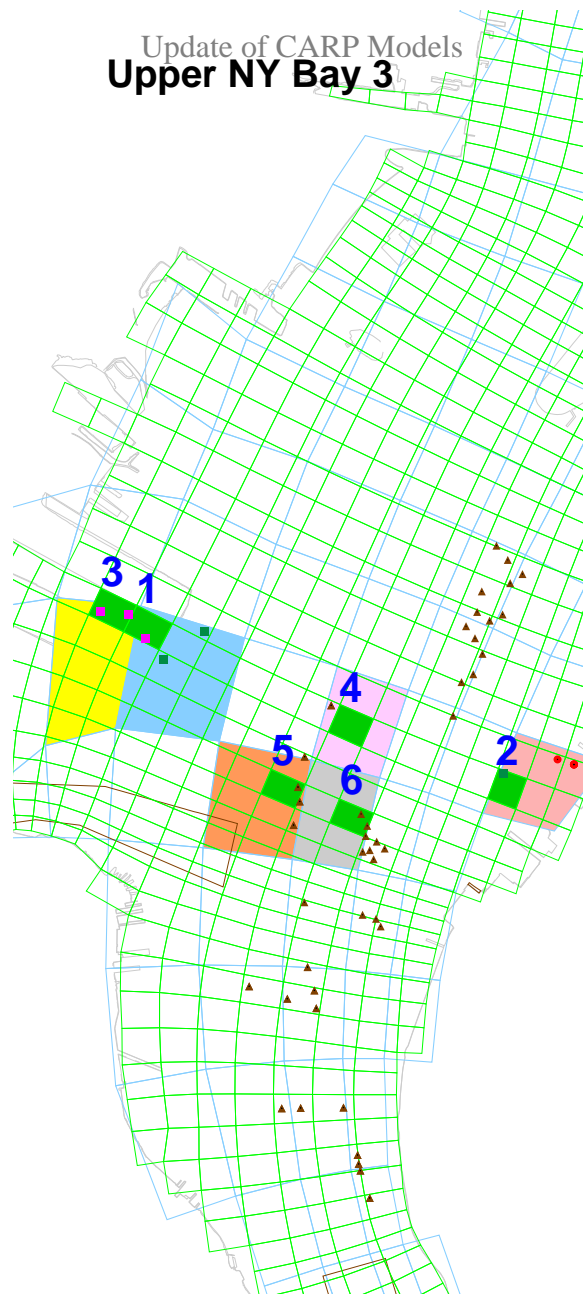
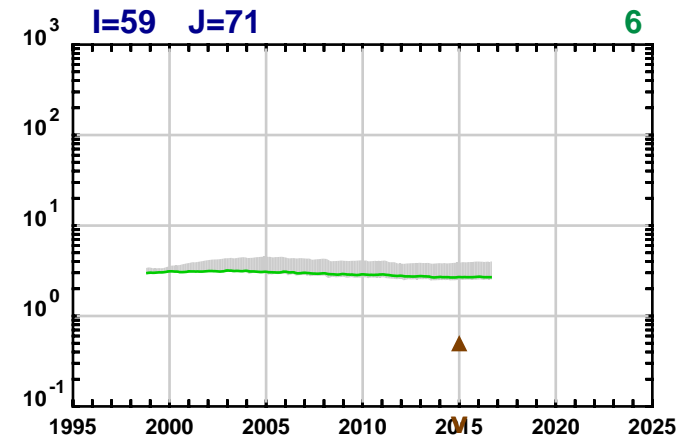
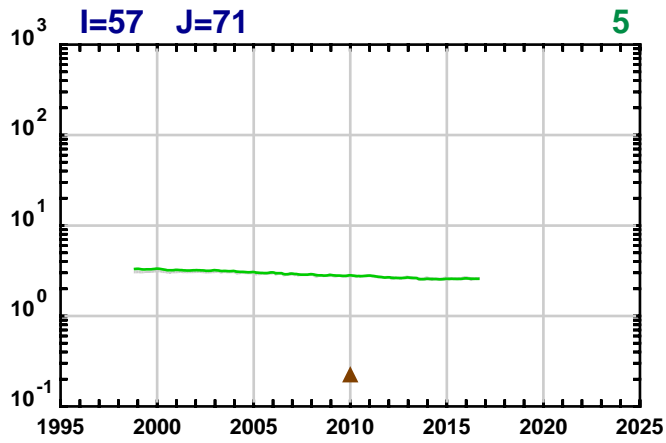
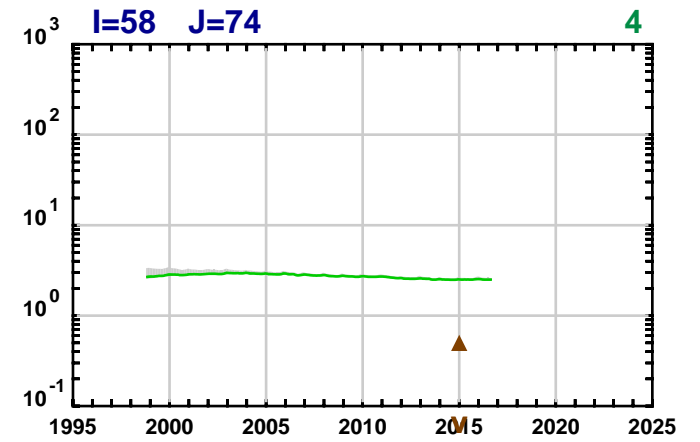
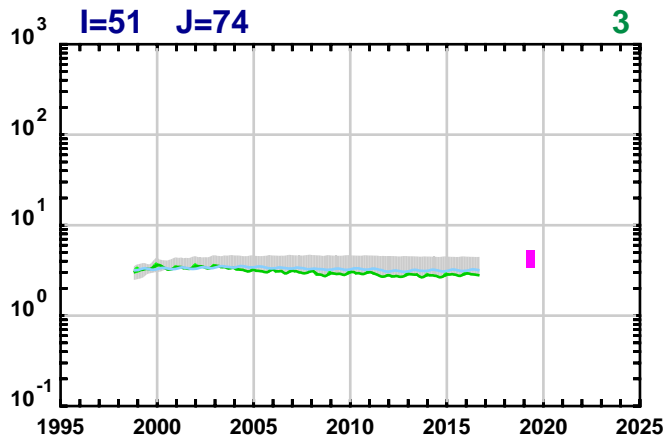
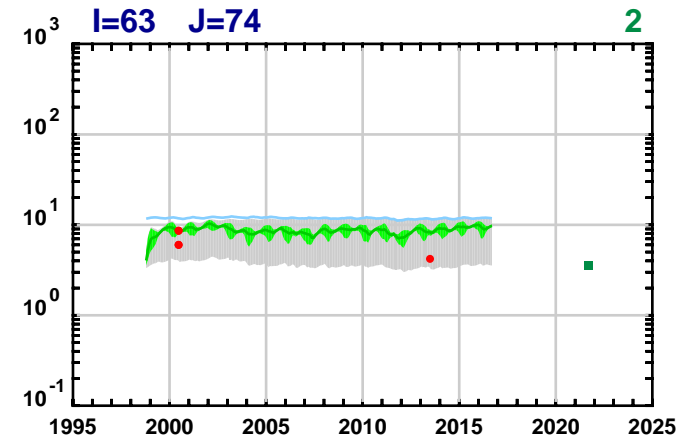
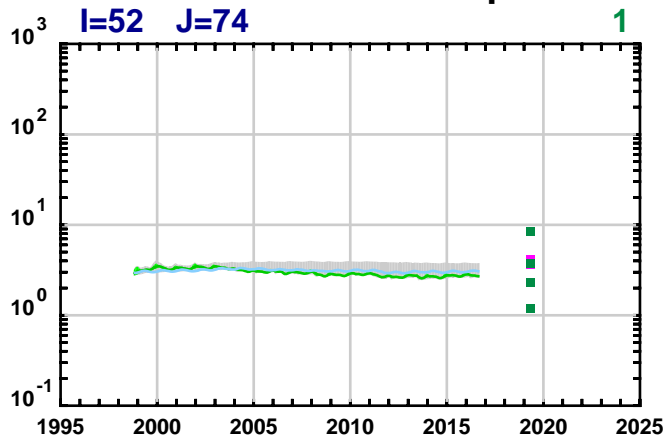
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,6,7,8-Hexachlorodibenzofuran ppt

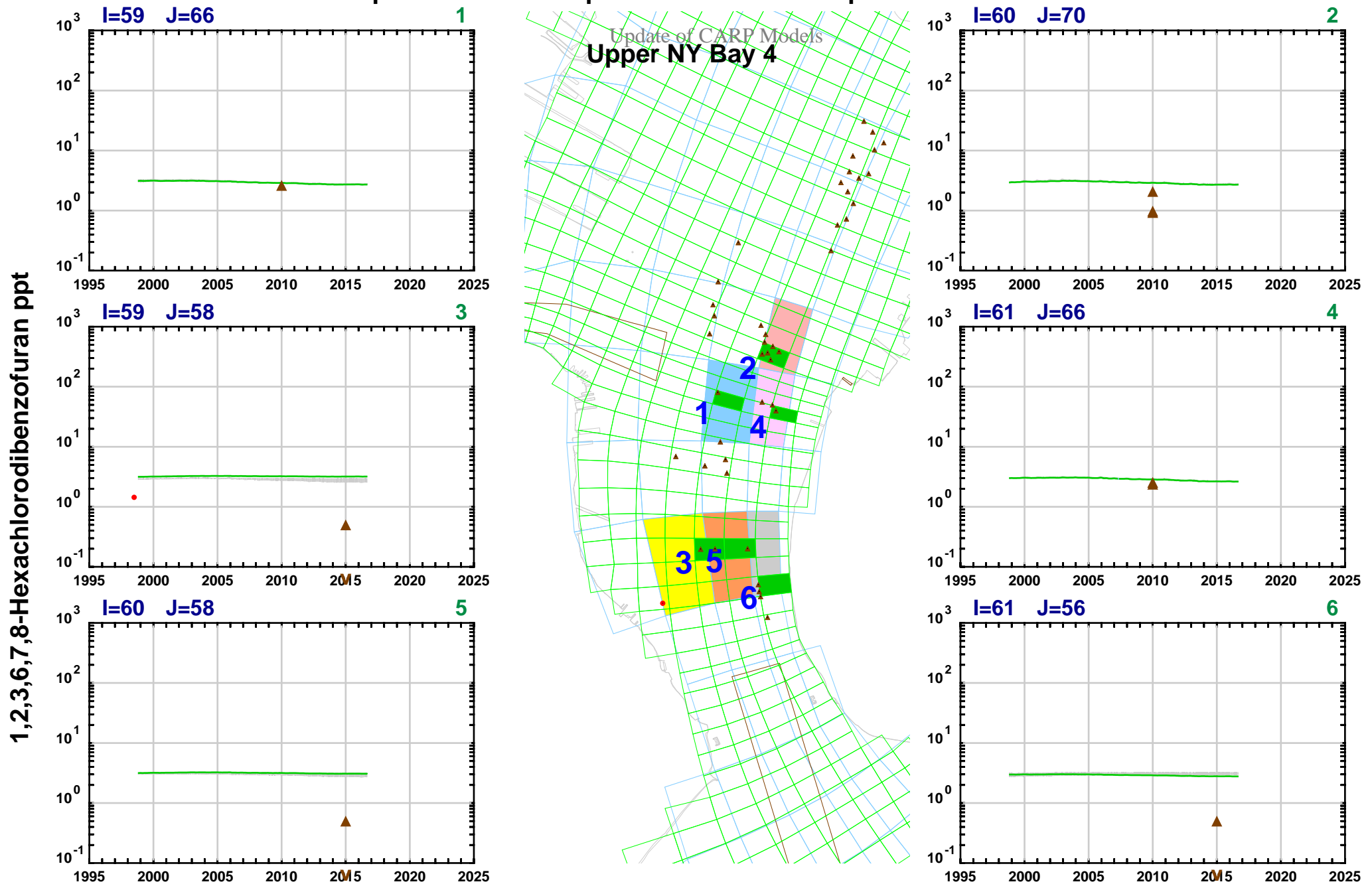


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

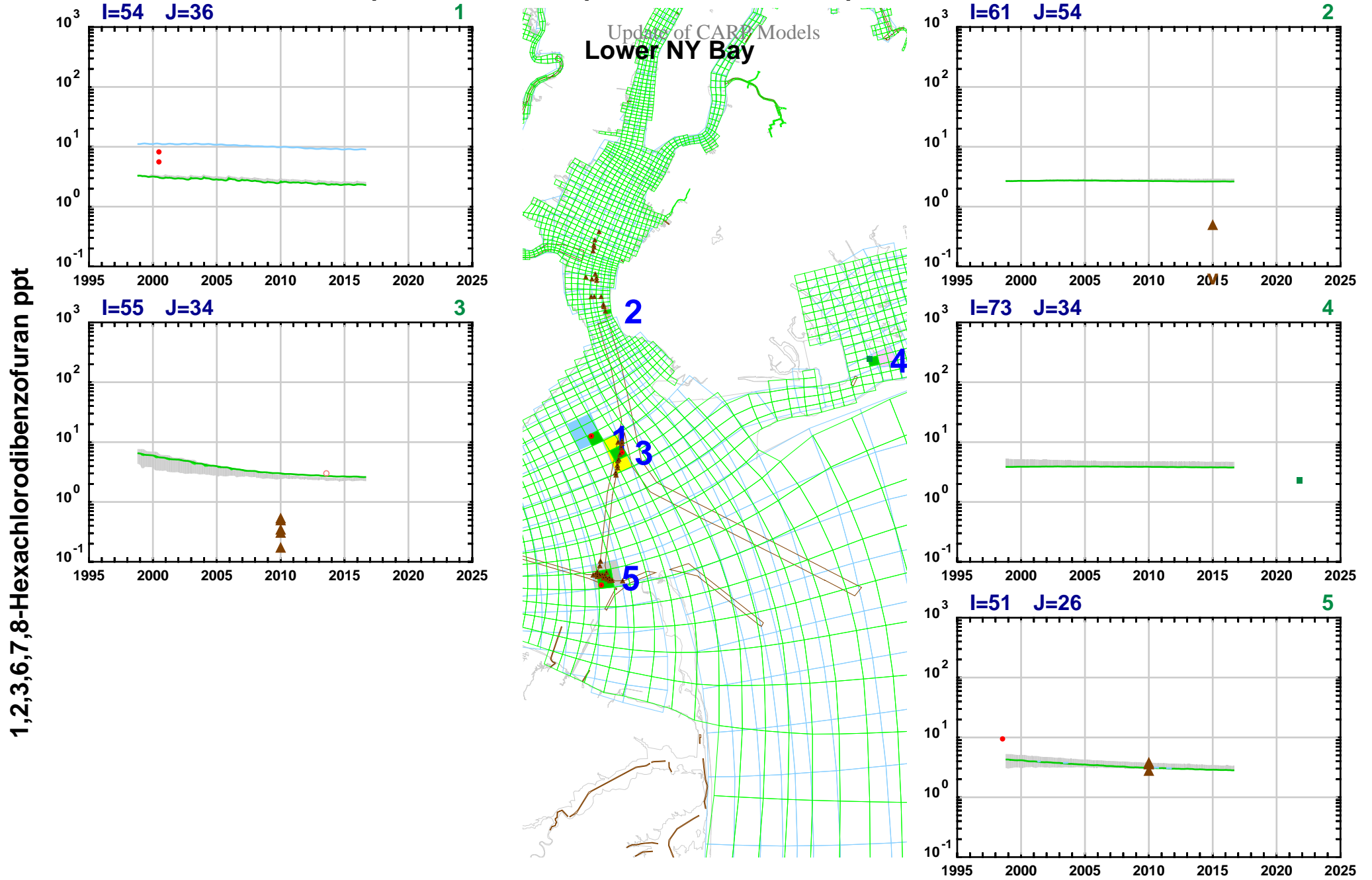


**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data ● Off-channel data ▲ Dredge data**  
**■ CARP2 In-channel ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment



RUN18\_S5\_R2

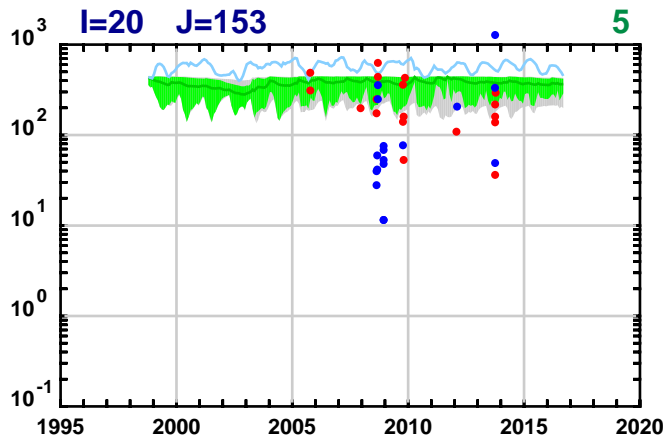
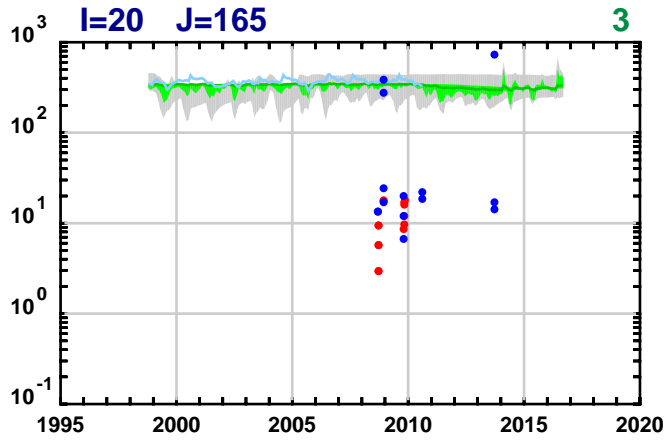
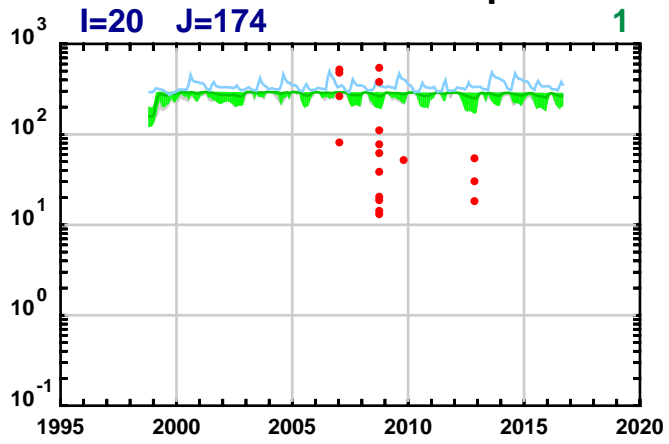
Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CAPP2 In-channel ■ CAPP2 Off-channel

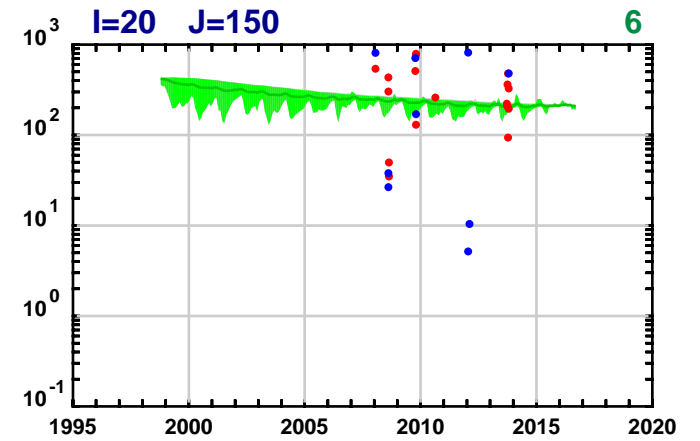
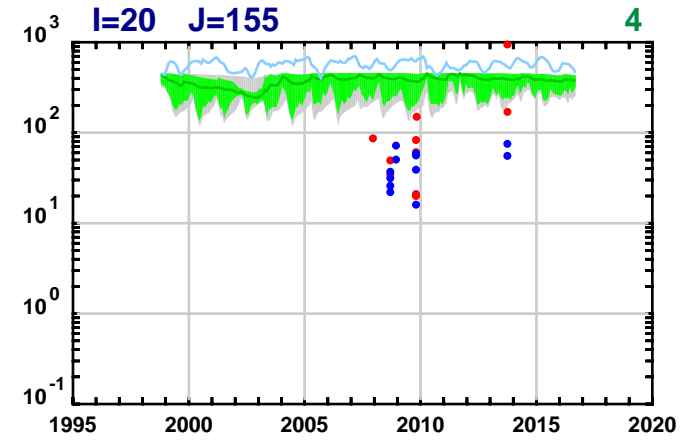
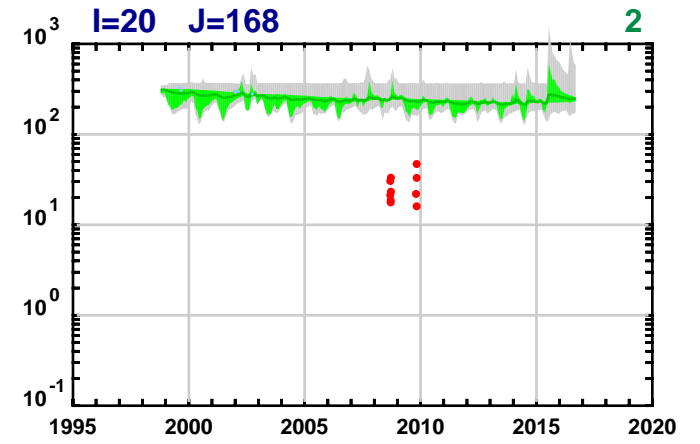
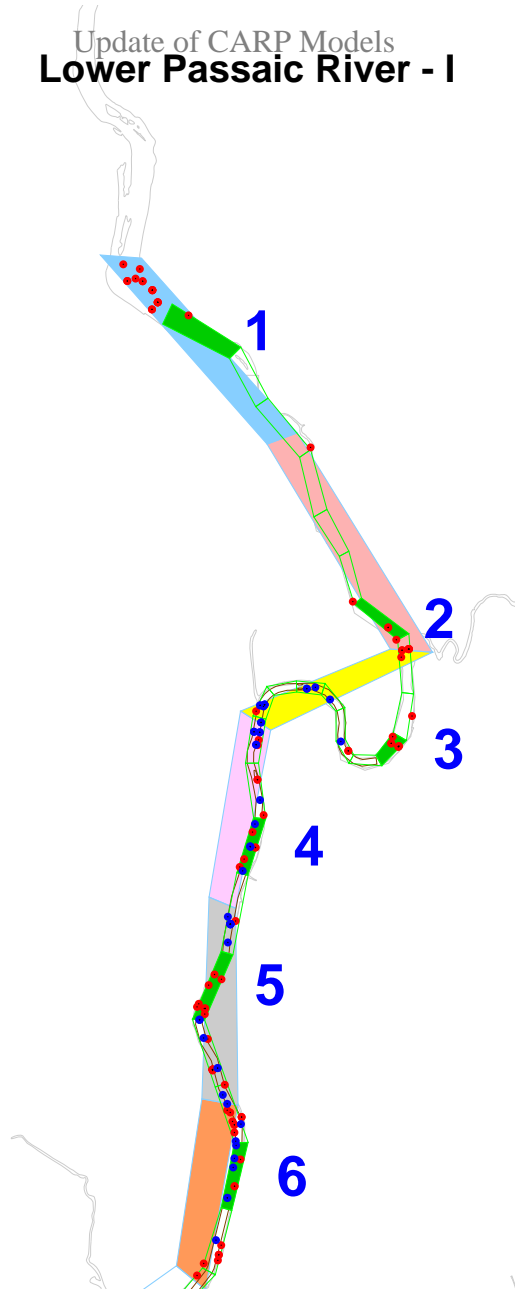


# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,6,7,8-Heptachlorodibenzofuran ppt



## Update of CARP Models Lower Passaic River - I



RUN18\_S5\_R2

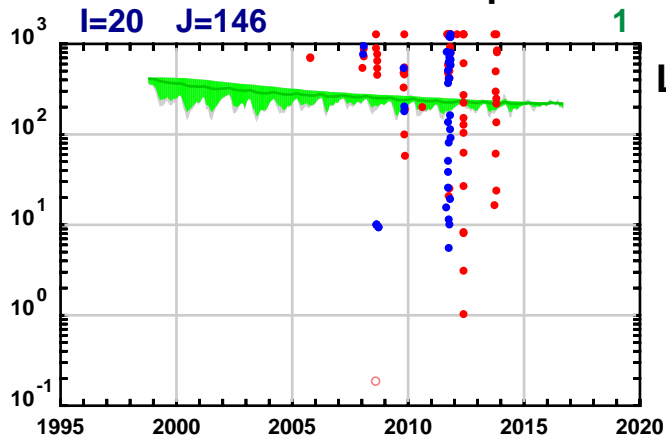
Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

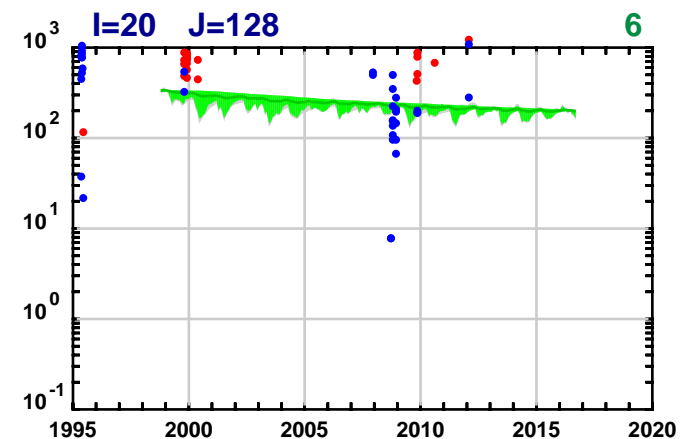
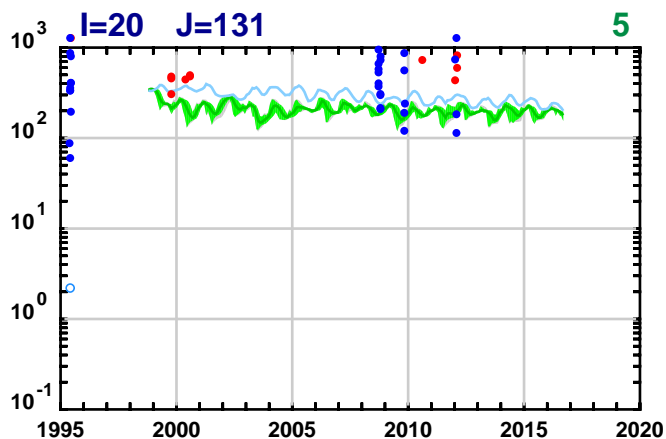
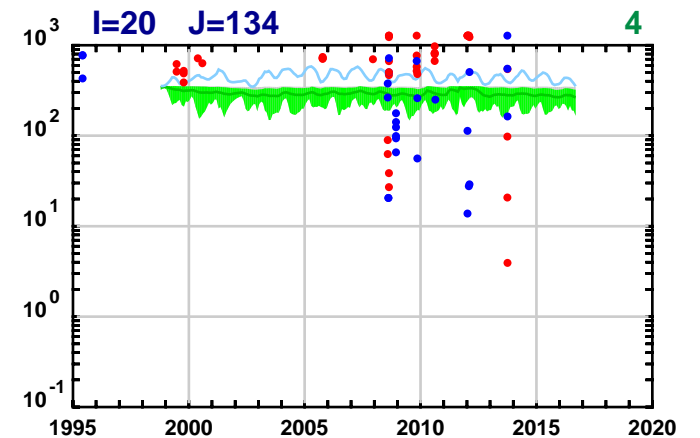
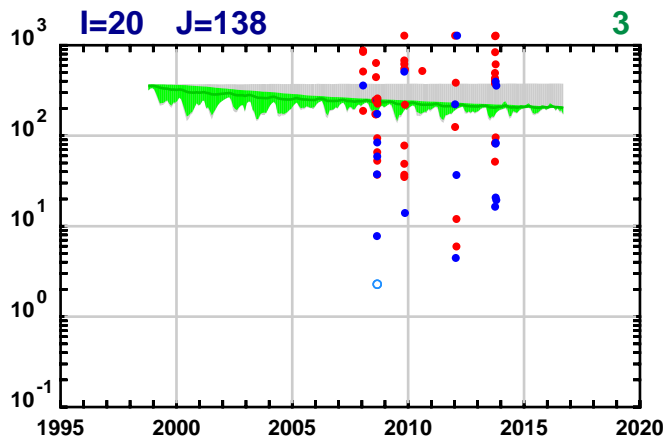
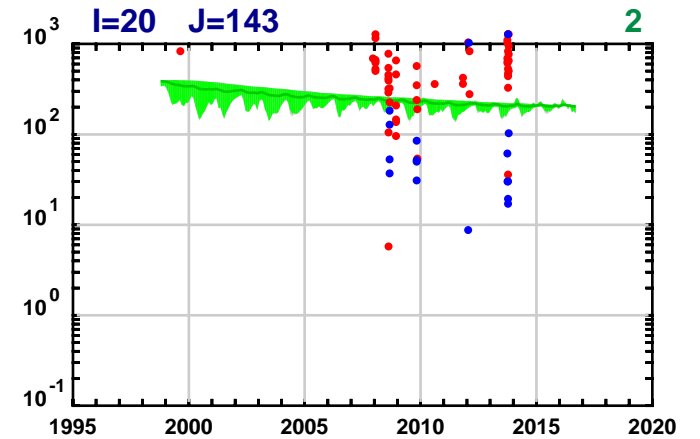
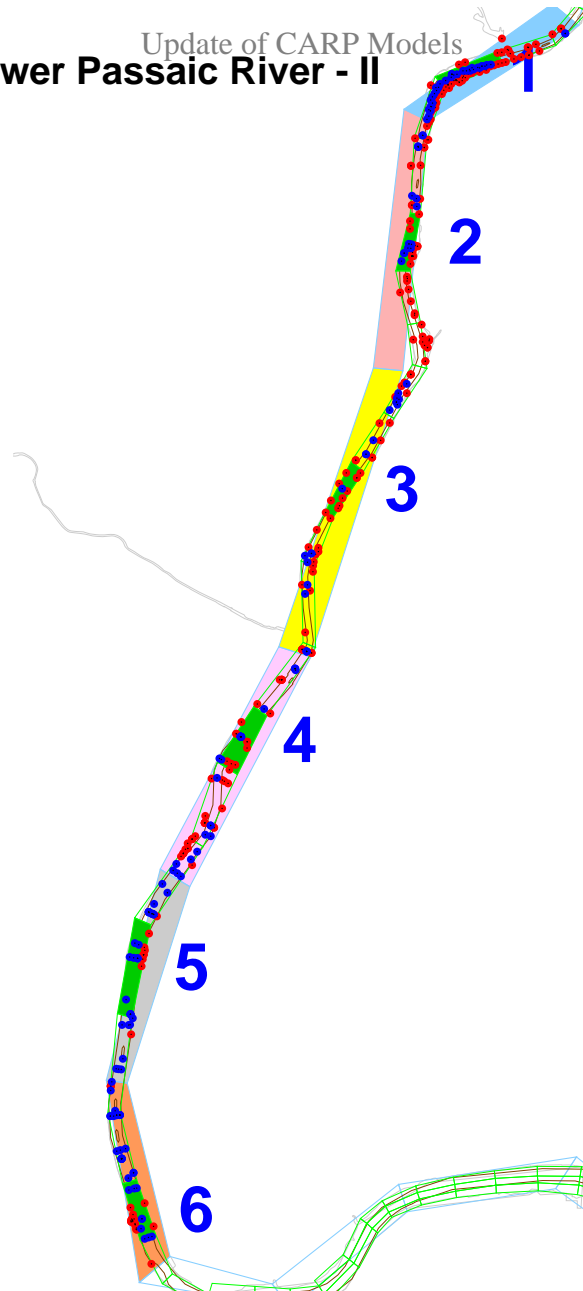


# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,6,7,8-Heptachlorodibenzofuran ppt



Update of CARP Models  
Lower Passaic River - II



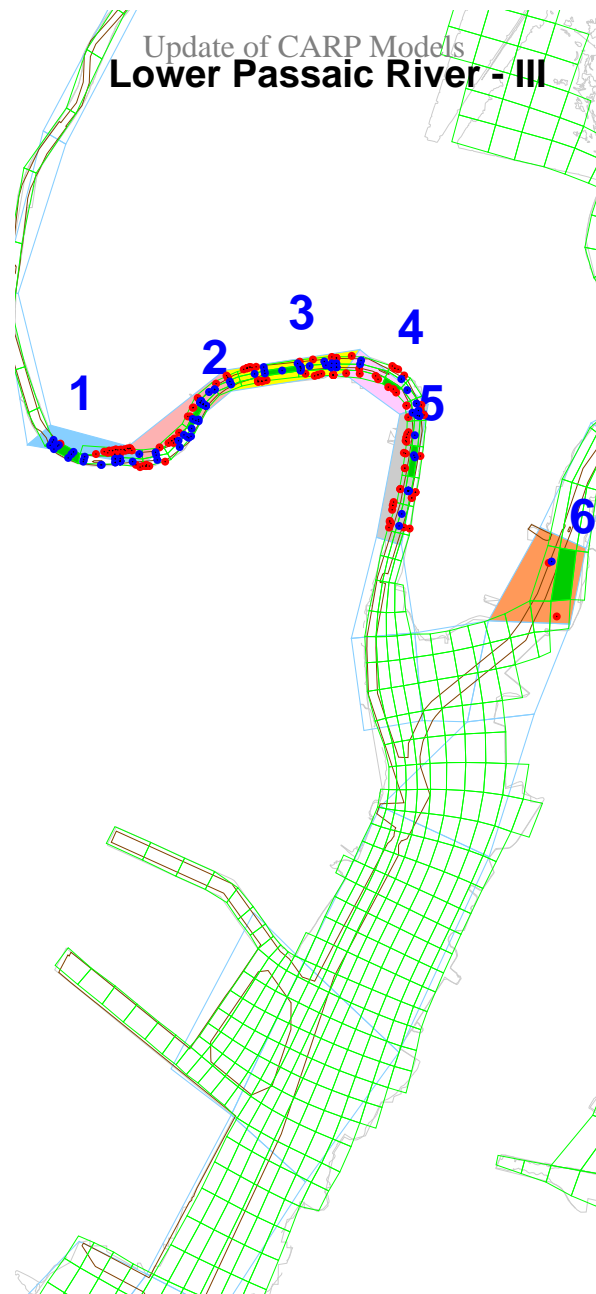
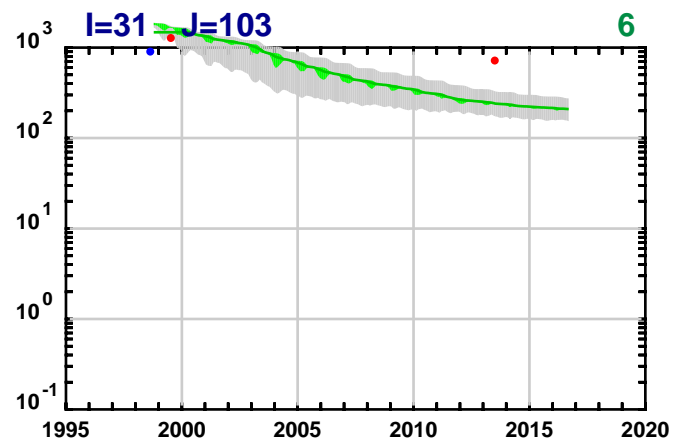
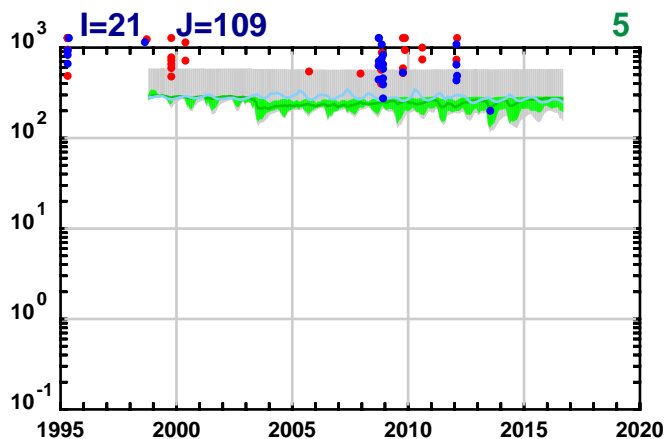
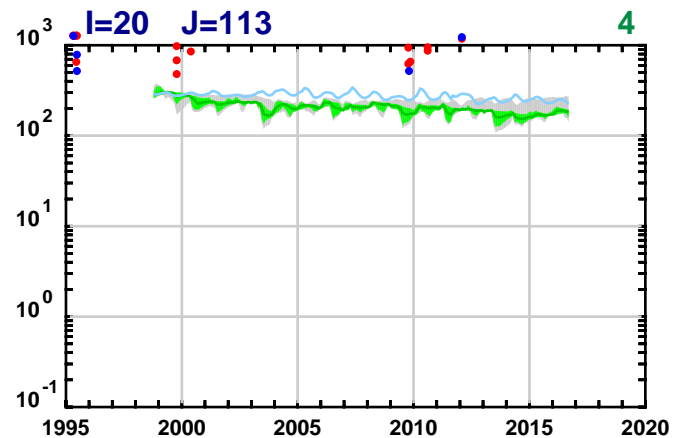
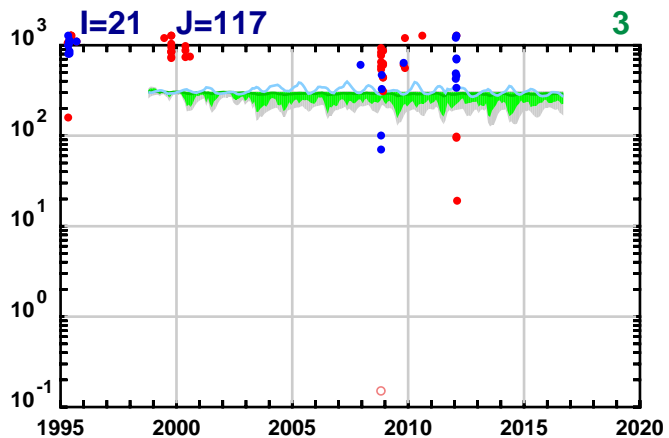
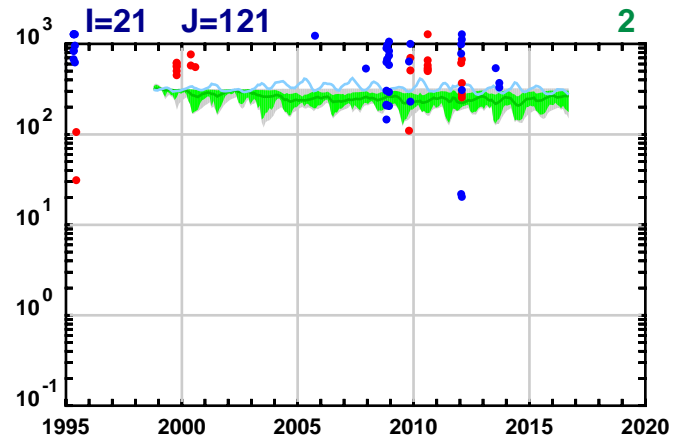
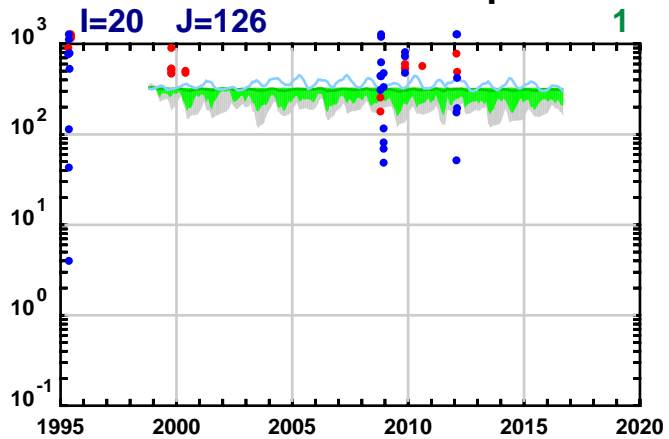
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,6,7,8-Heptachlorodibenzofuran ppt



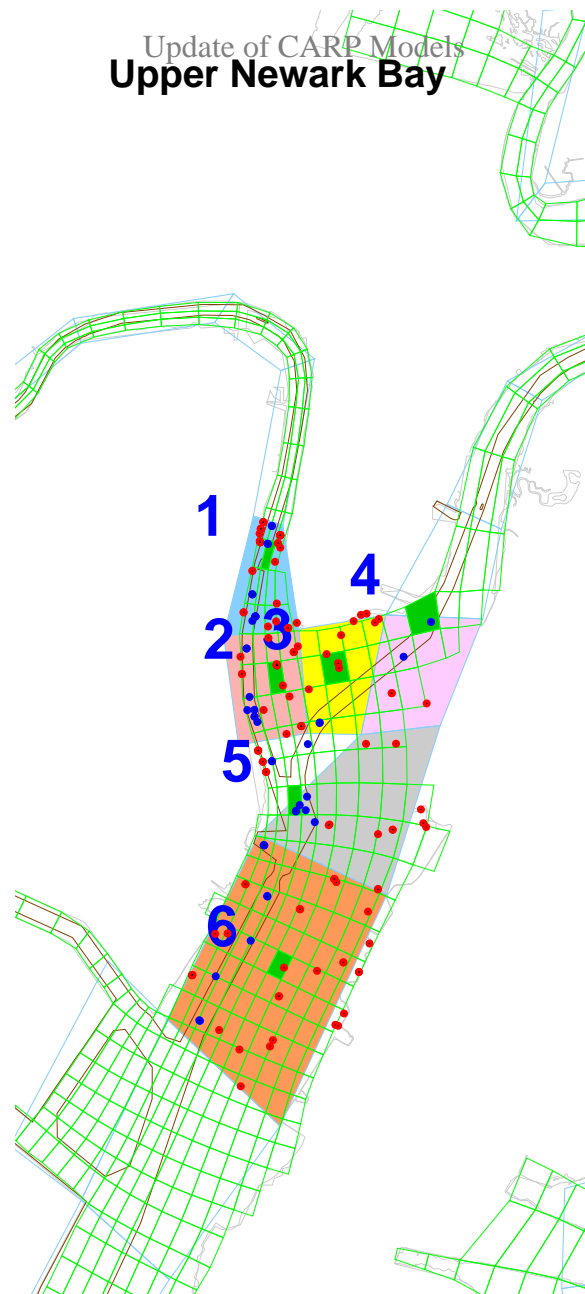
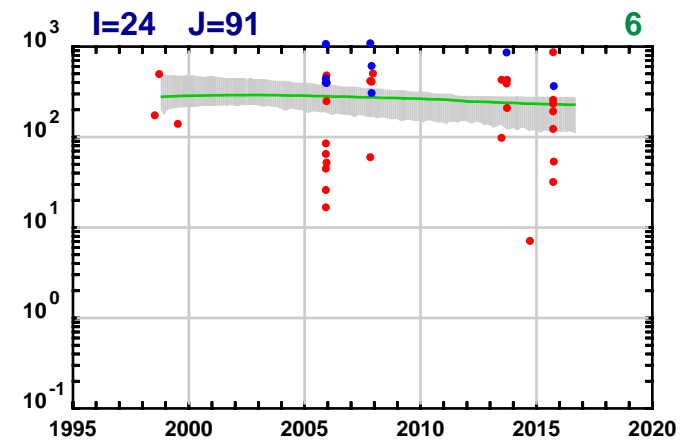
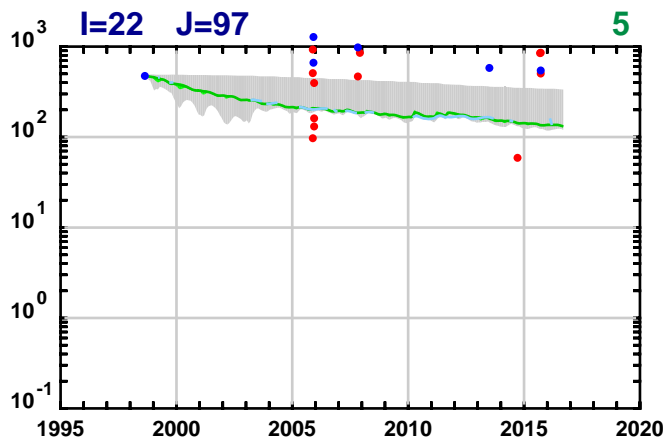
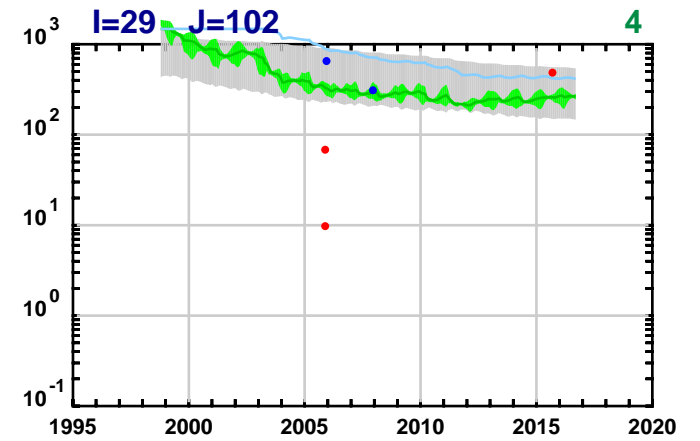
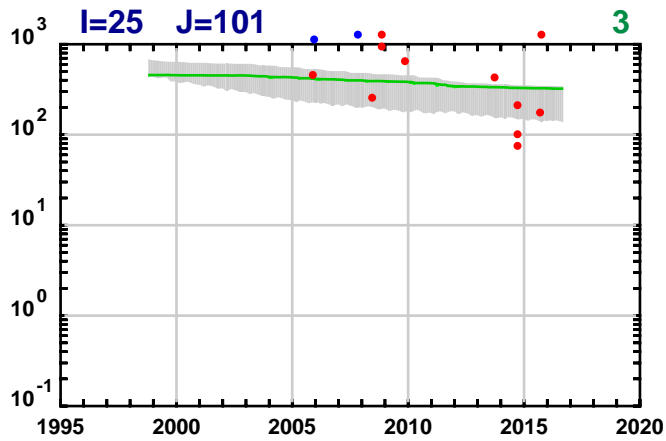
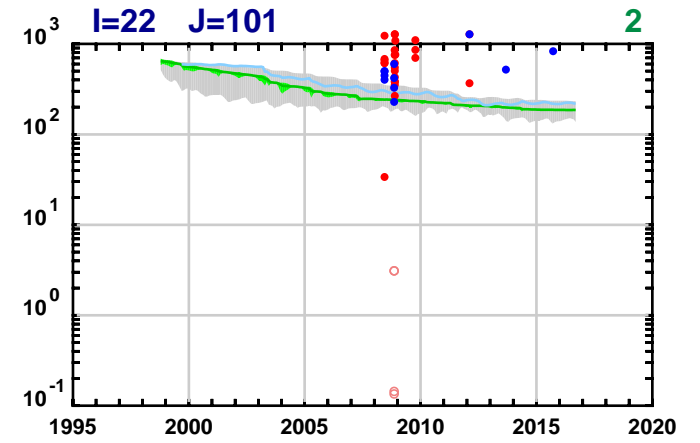
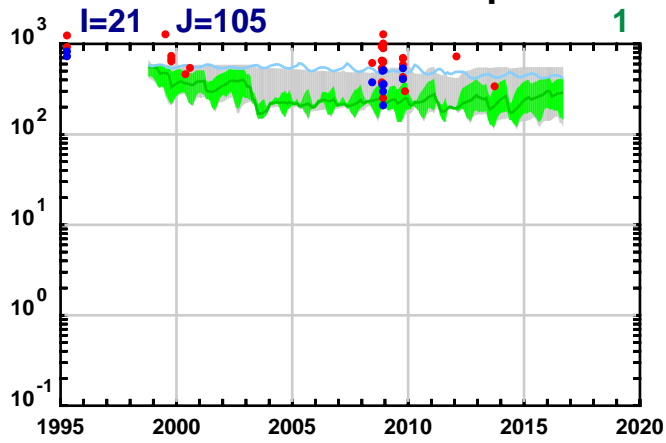
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,6,7,8-Heptachlorodibenzofuran ppt



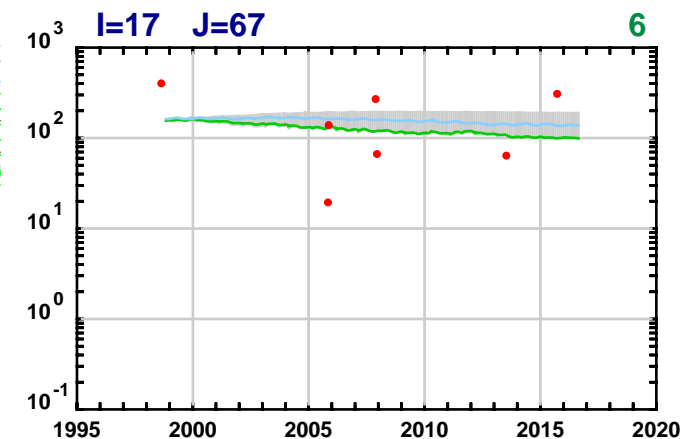
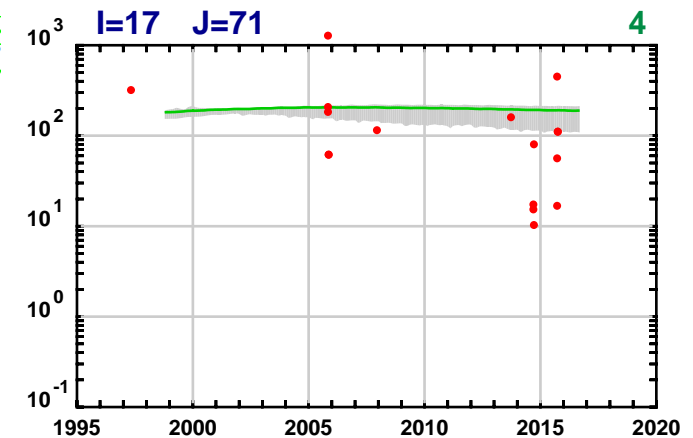
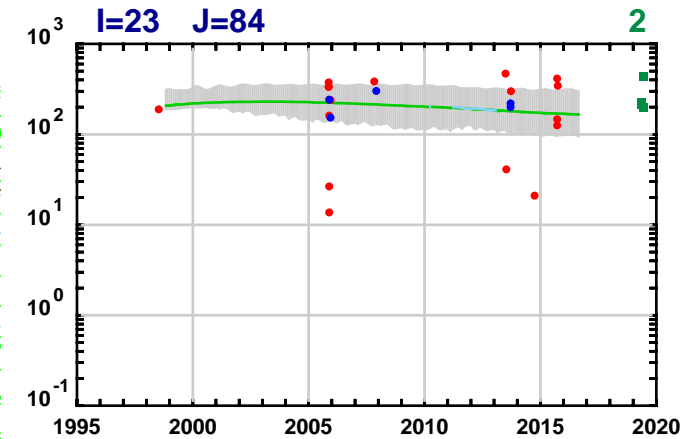
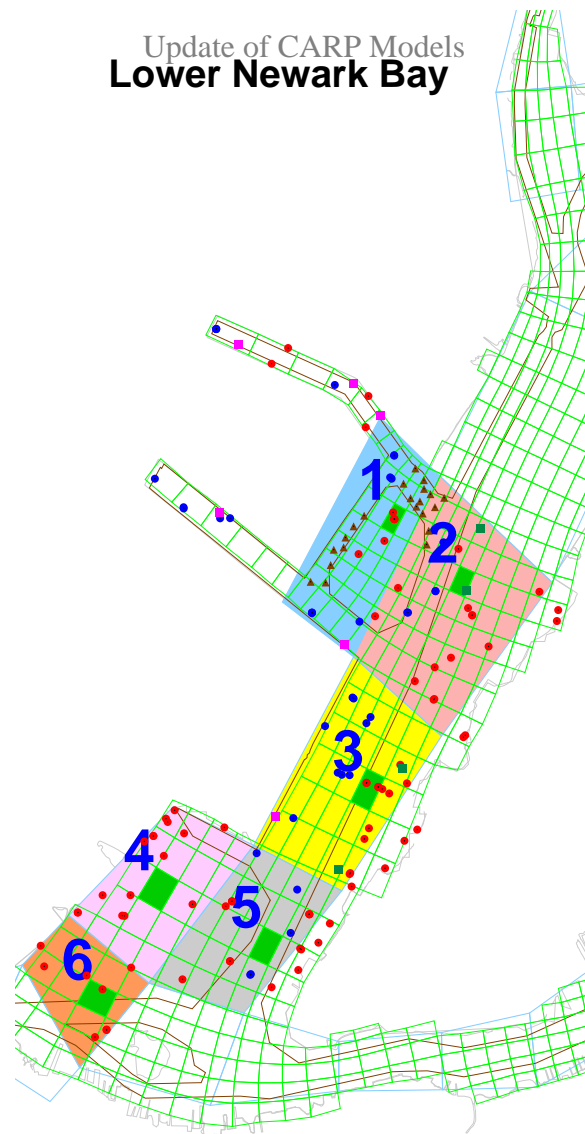
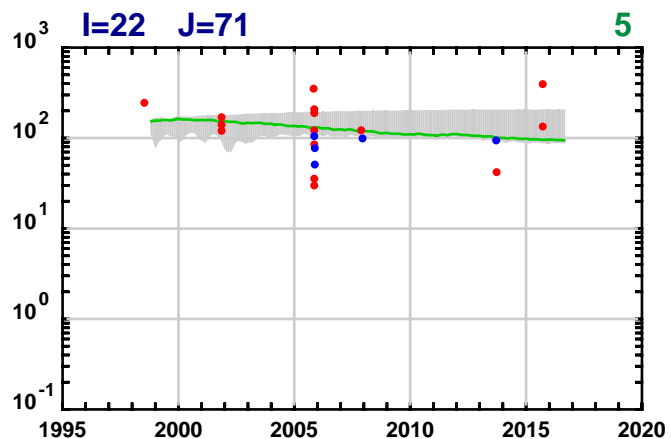
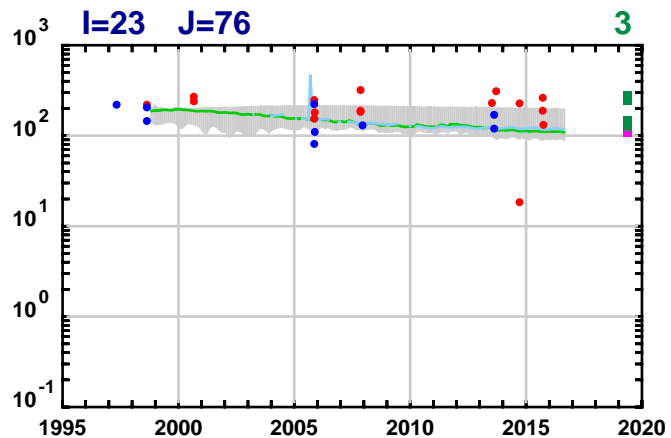
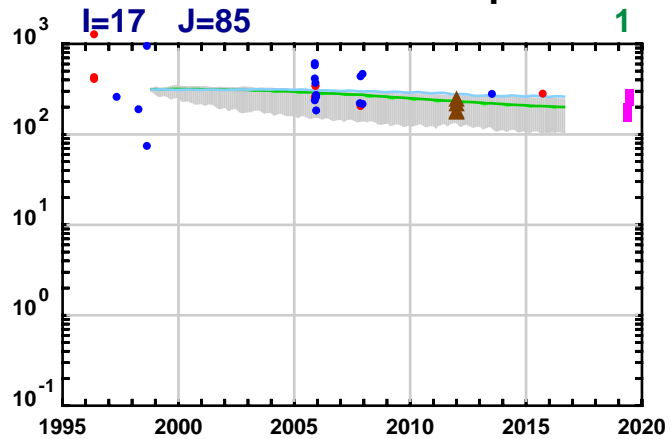
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,6,7,8-Heptachlorodibenzofuran ppt



Update of CARP Models  
Lower Newark Bay

RUN18\_S5\_R2

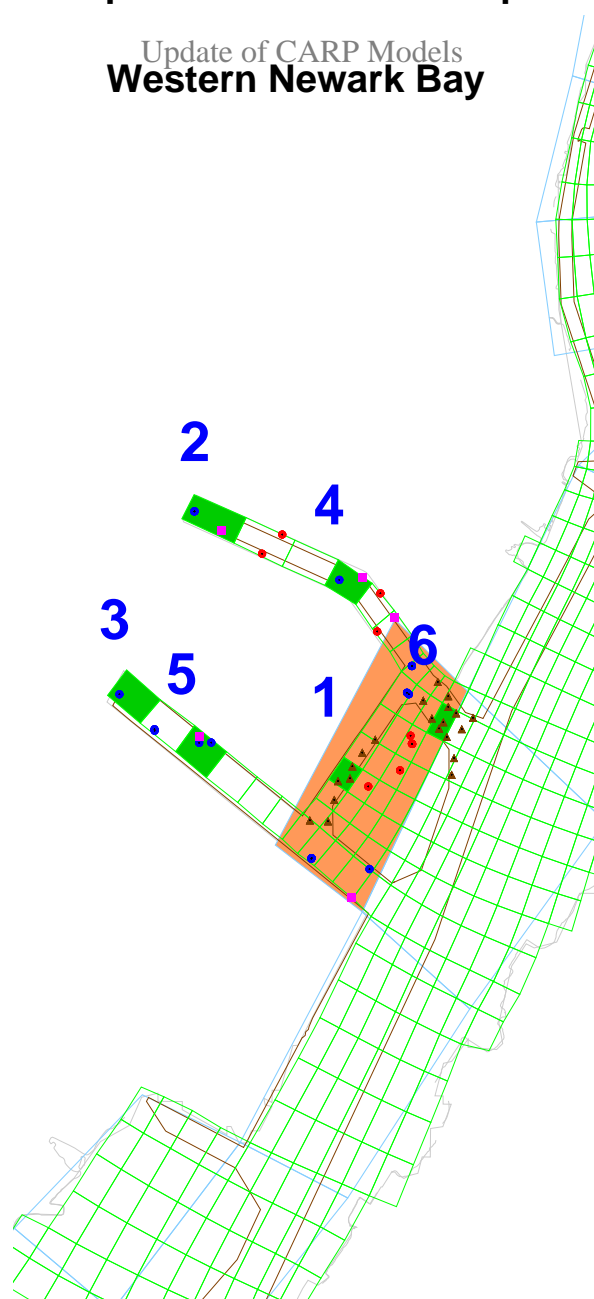
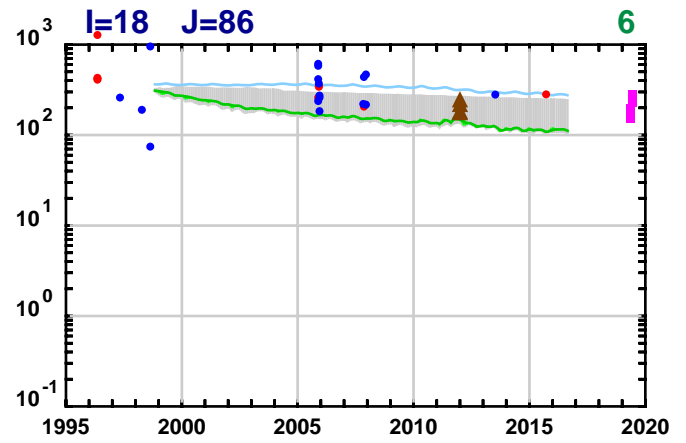
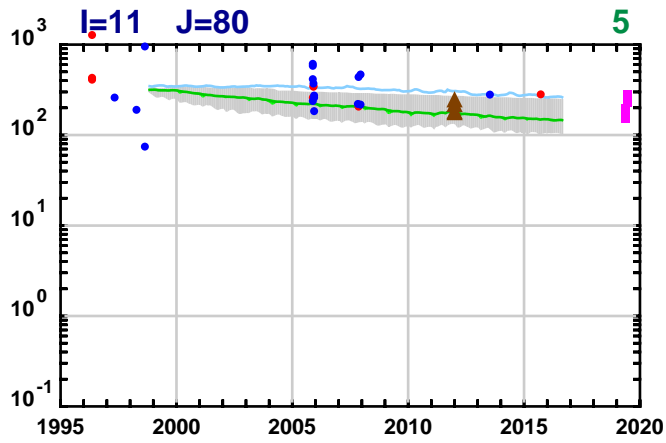
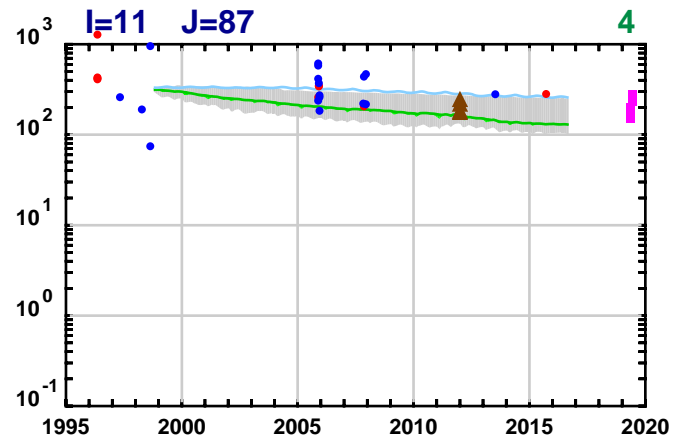
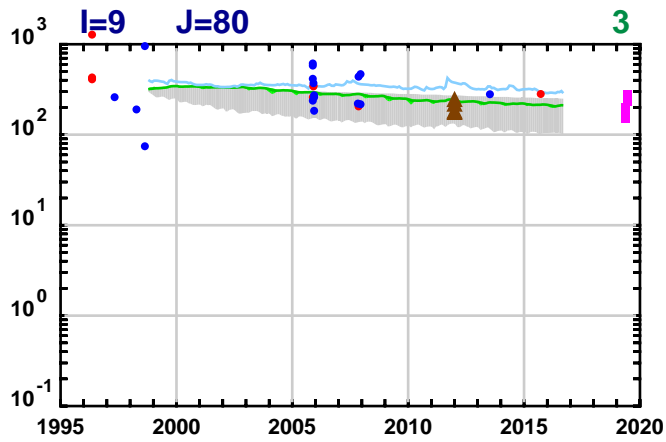
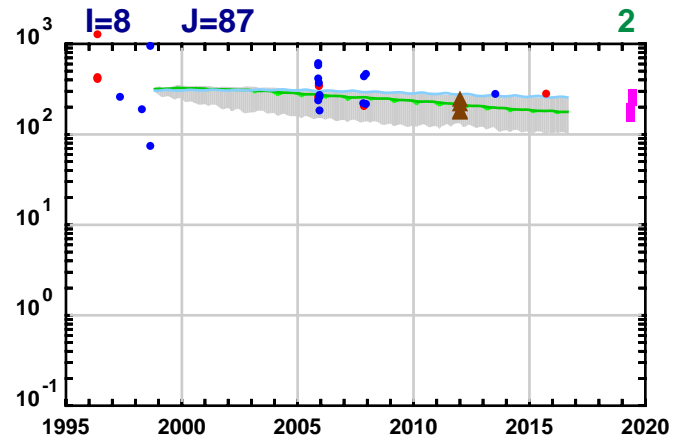
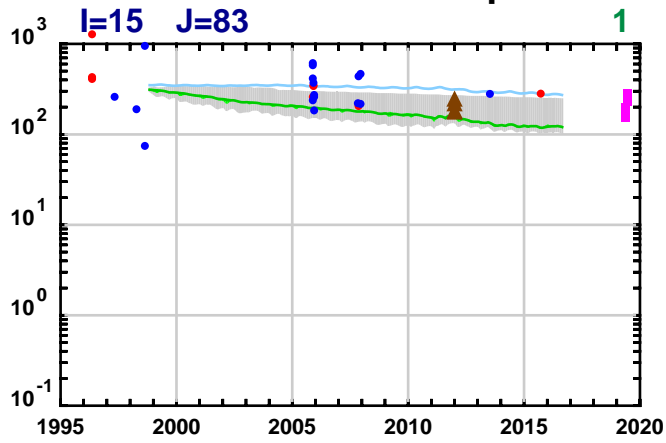
Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay

1,2,3,4,6,7,8-Heptachlorodibenzofuran ppt



RUN18\_S5\_R2

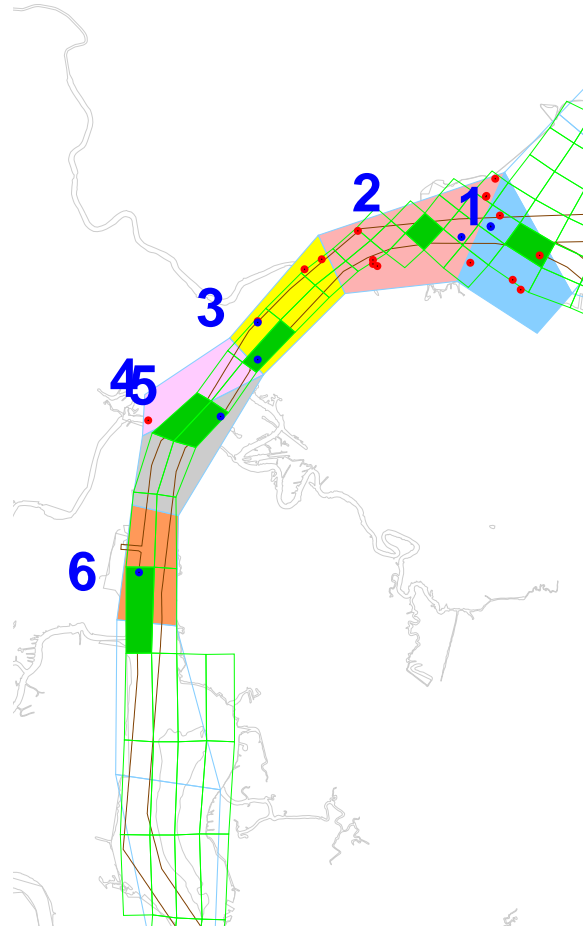
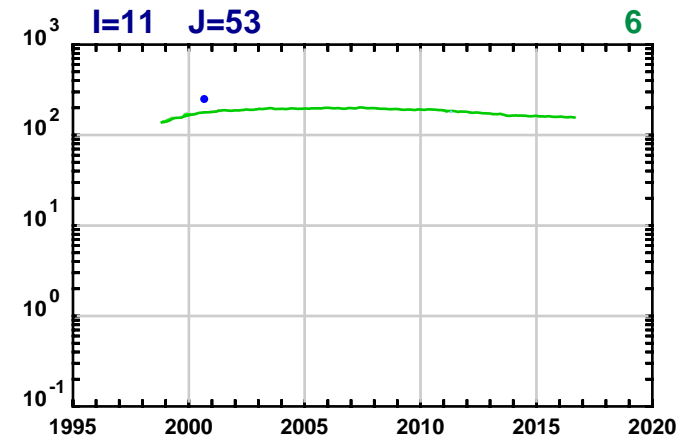
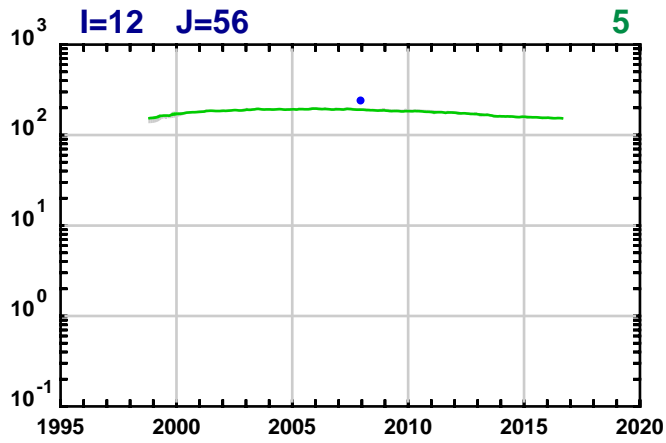
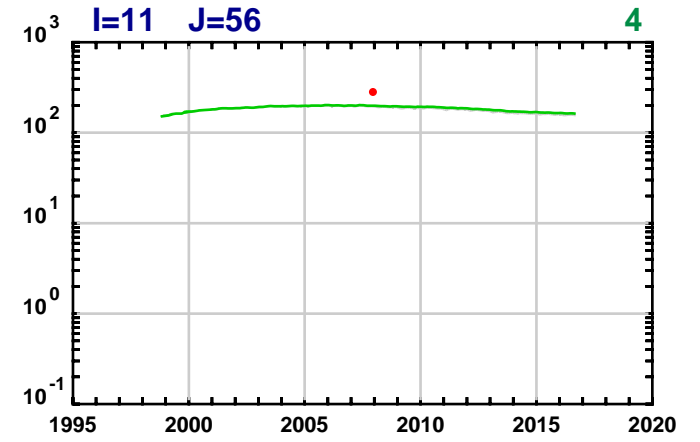
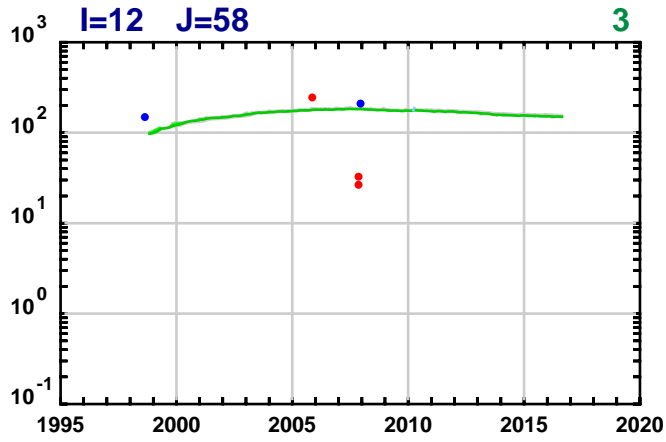
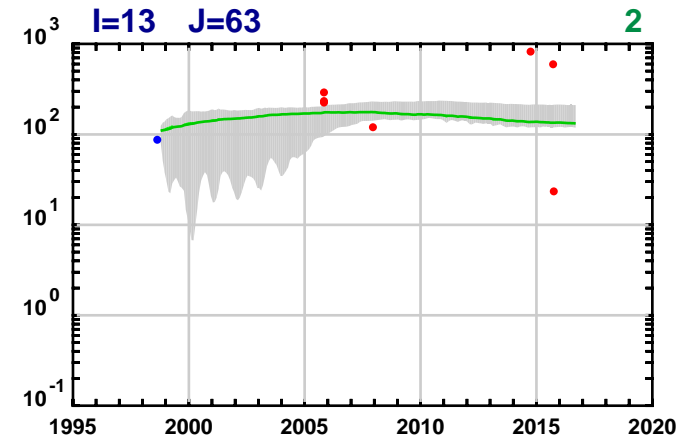
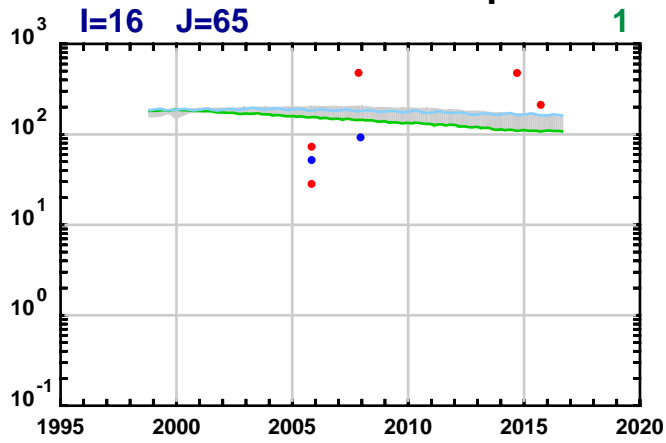
Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

1,2,3,4,6,7,8-Heptachlorodibenzofuran ppt



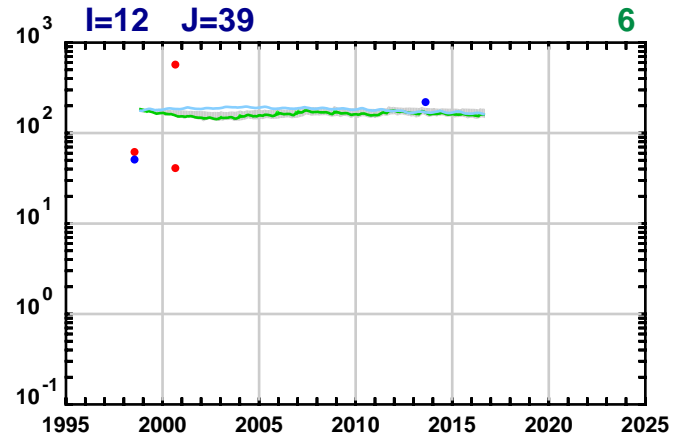
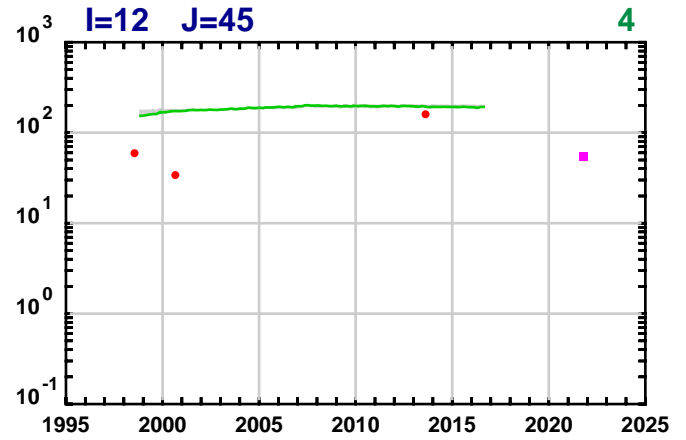
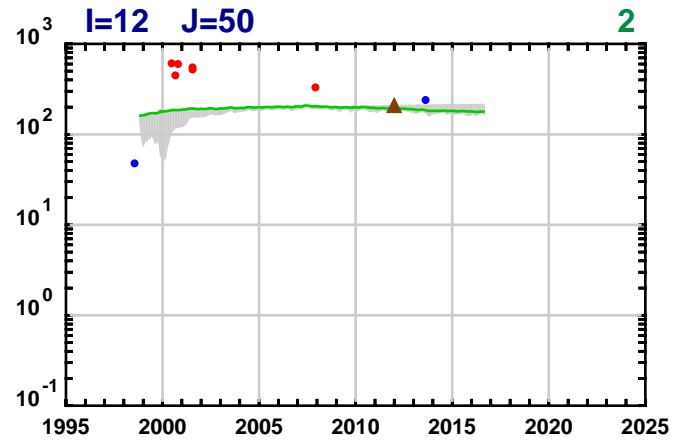
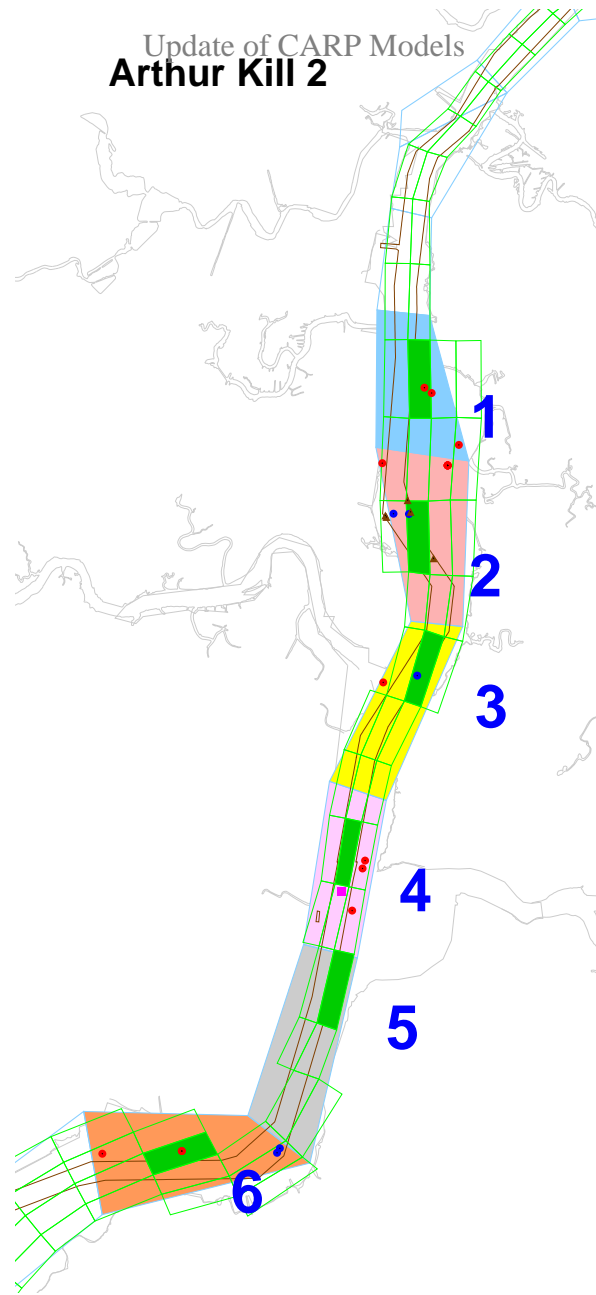
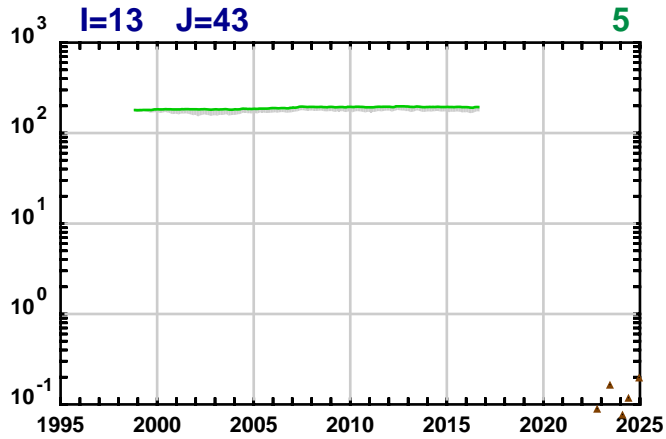
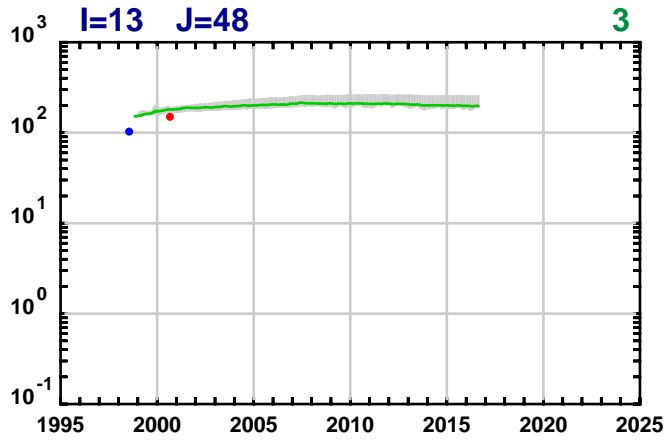
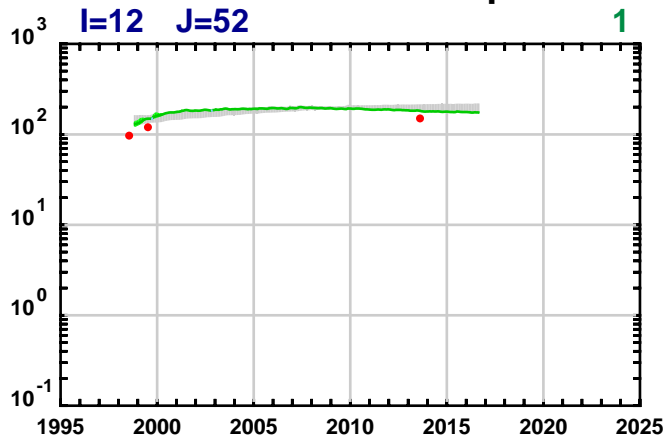
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,6,7,8-Heptachlorodibenzofuran ppt



RUN18\_S5\_R2

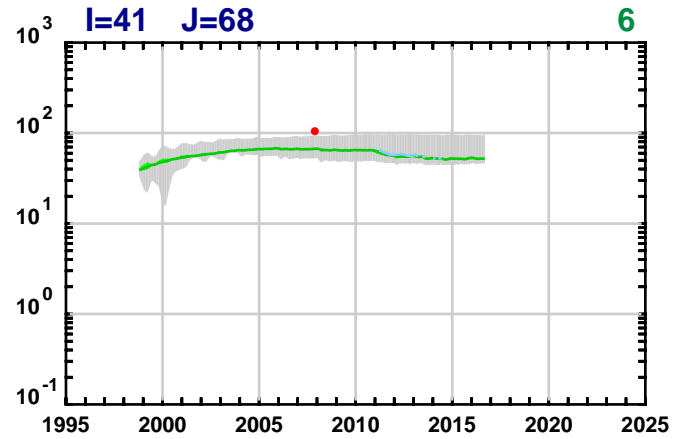
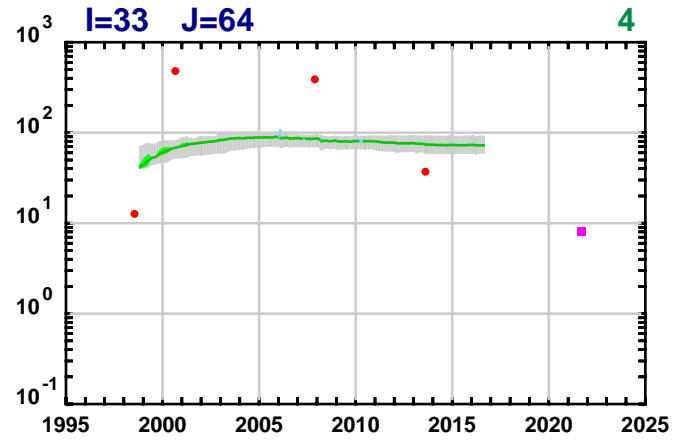
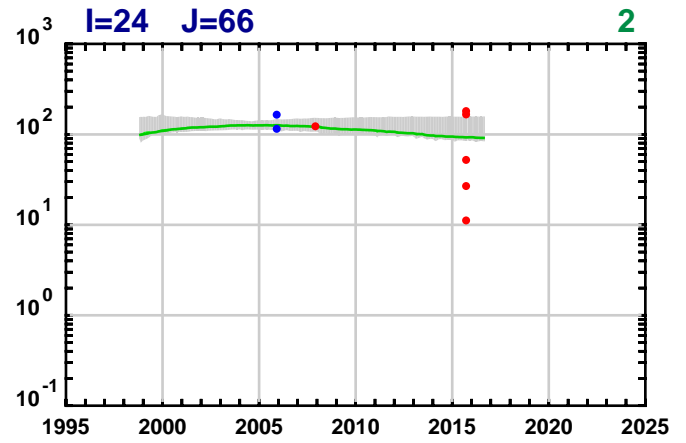
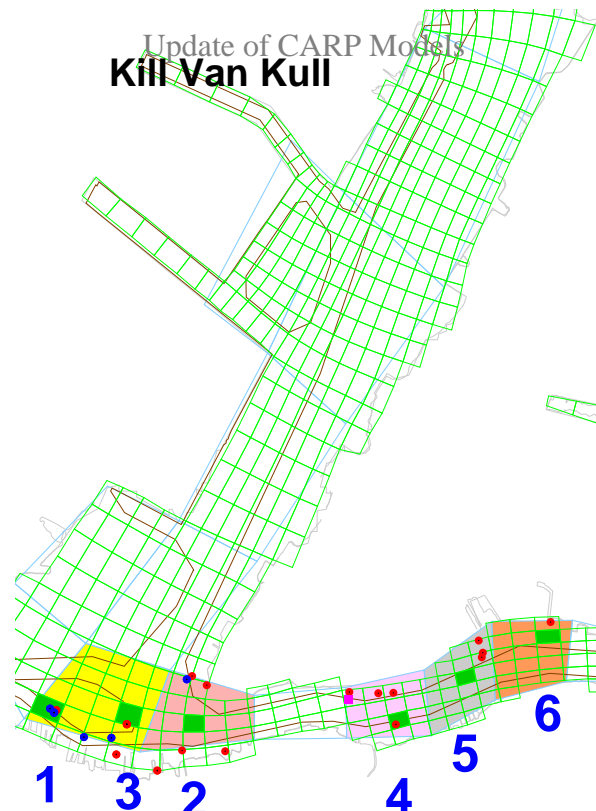
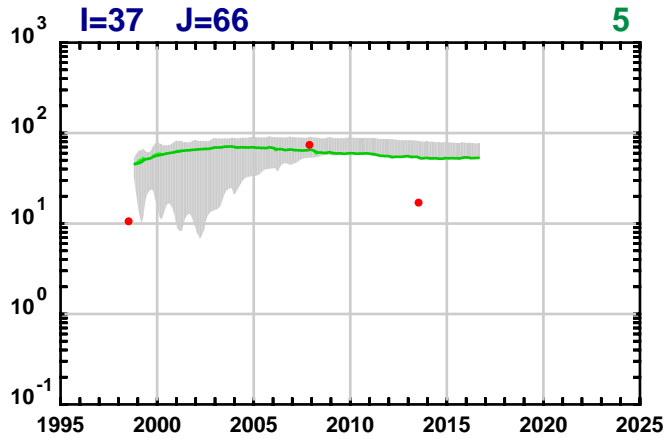
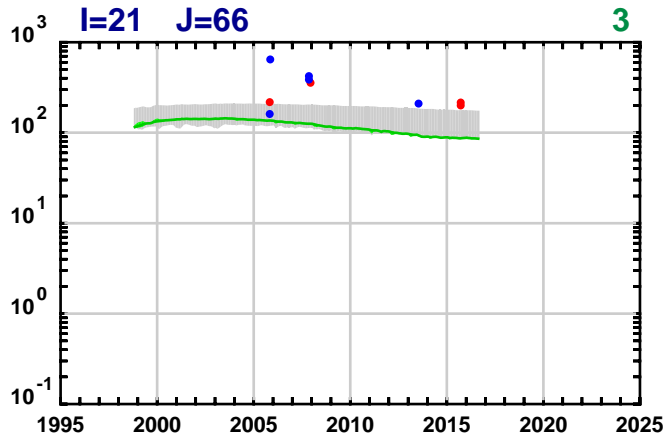
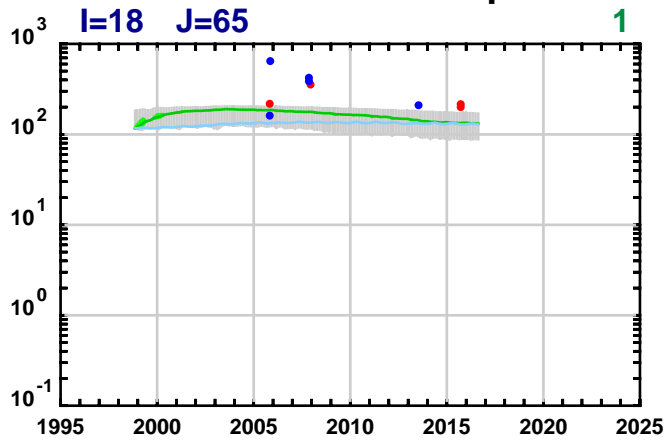
Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,6,7,8-Heptachlorodibenzofuran ppt

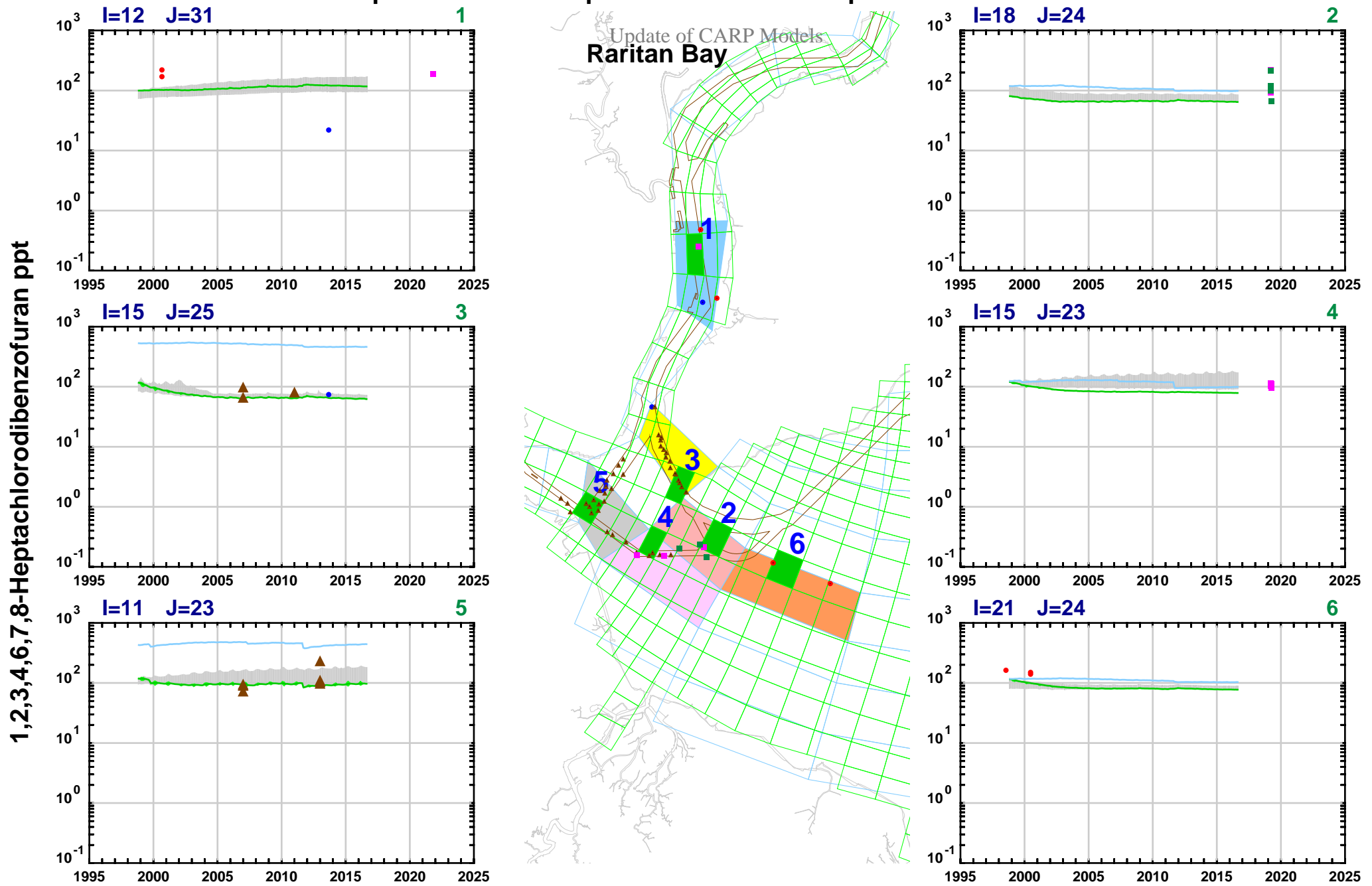


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



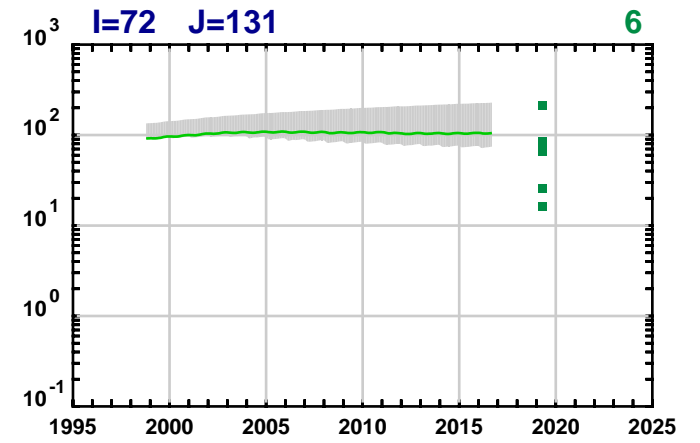
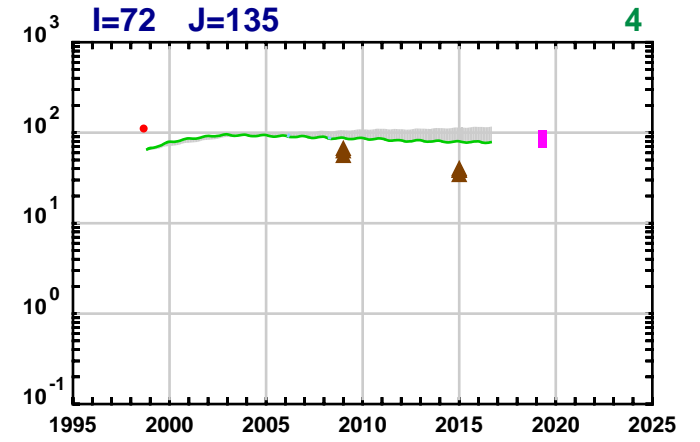
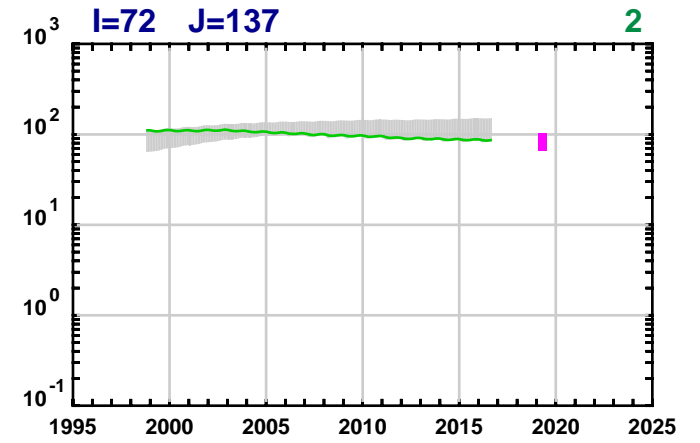
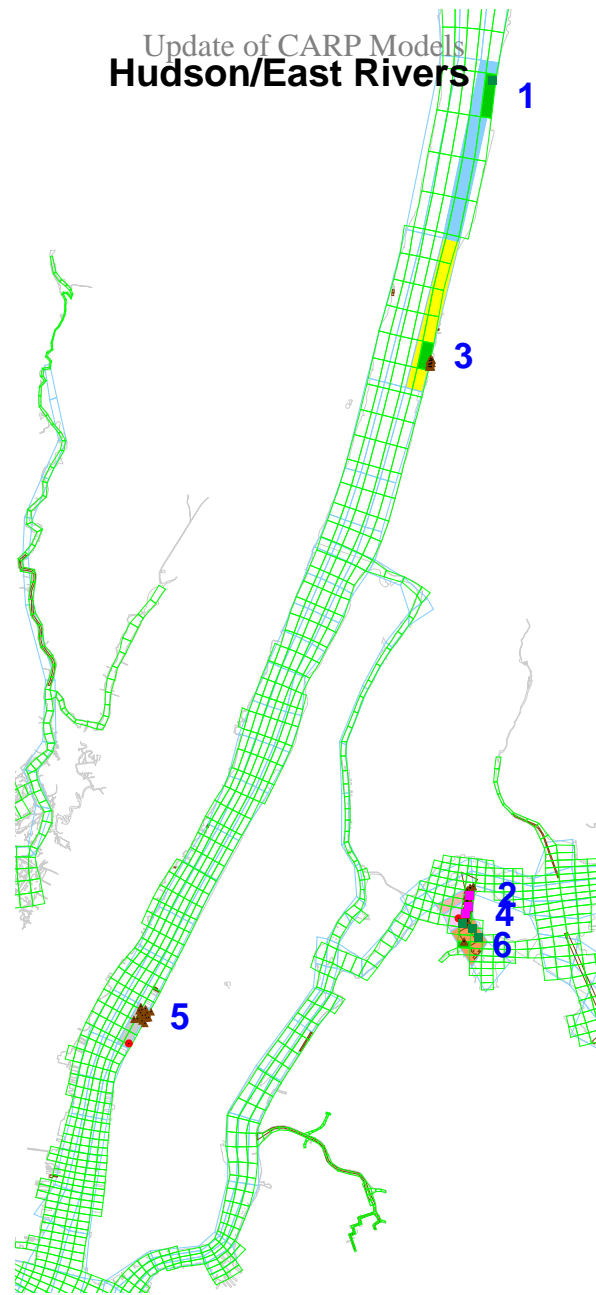
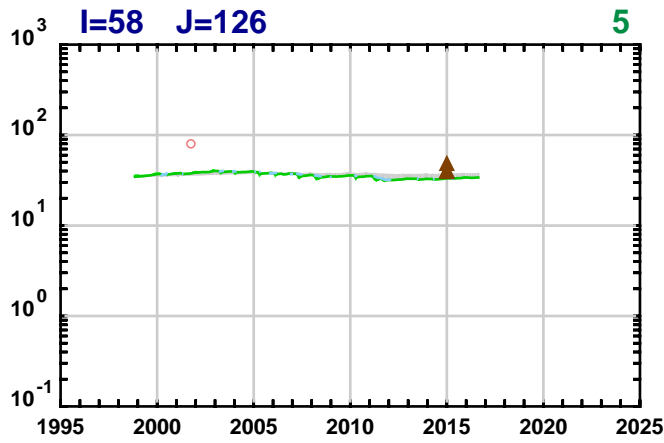
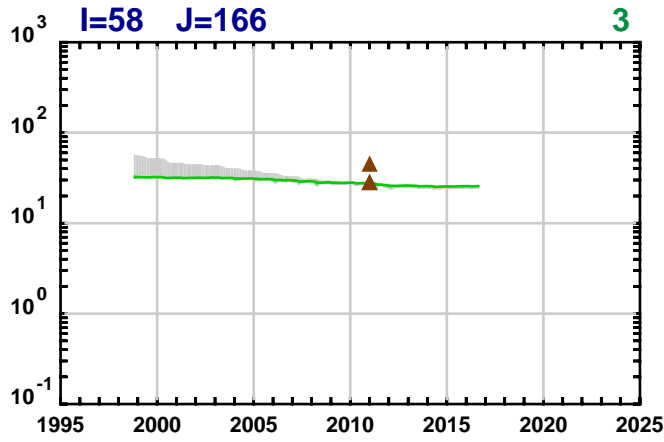
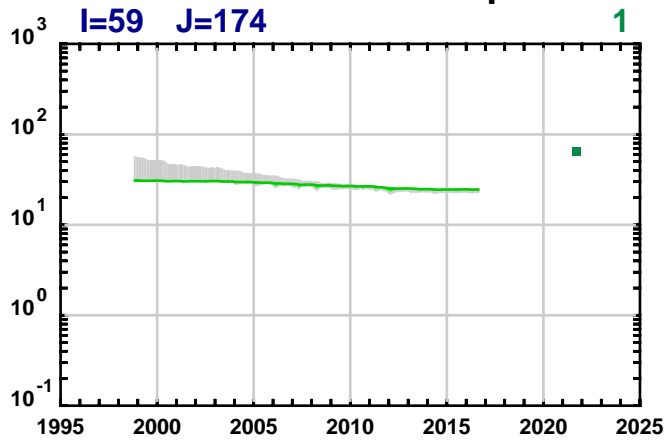
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,6,7,8-Heptachlorodibenzofuran ppt

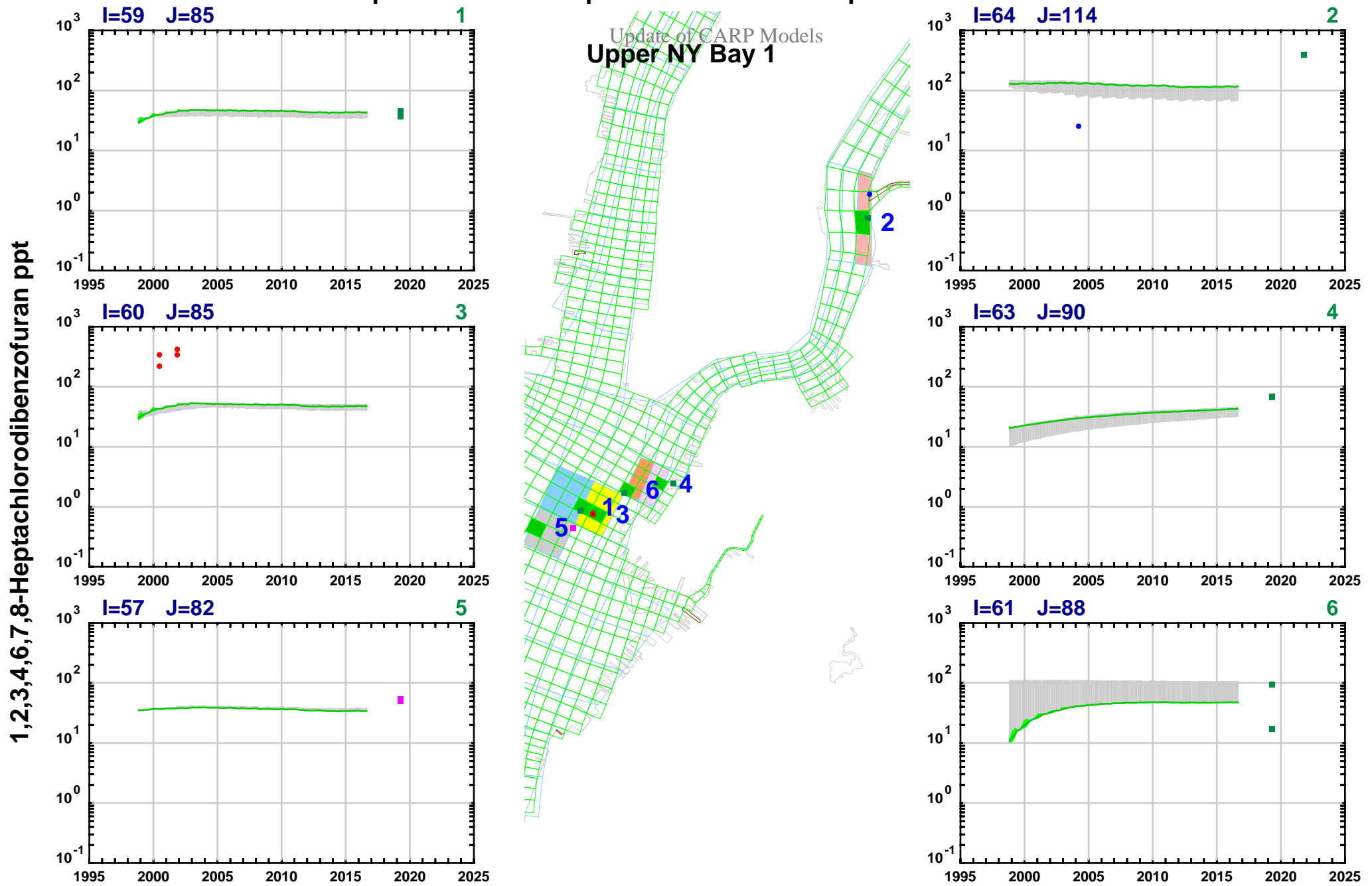


**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



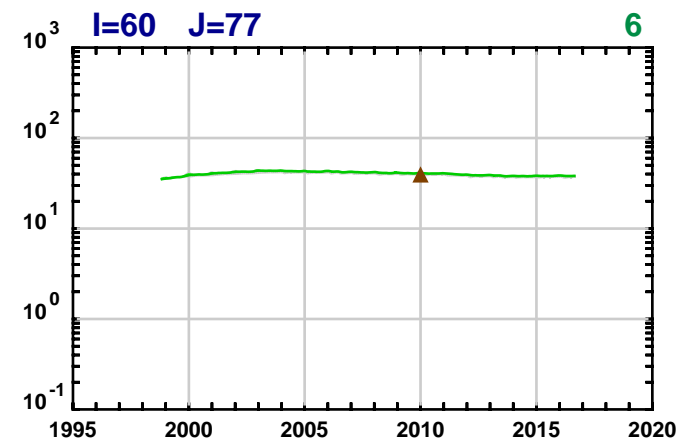
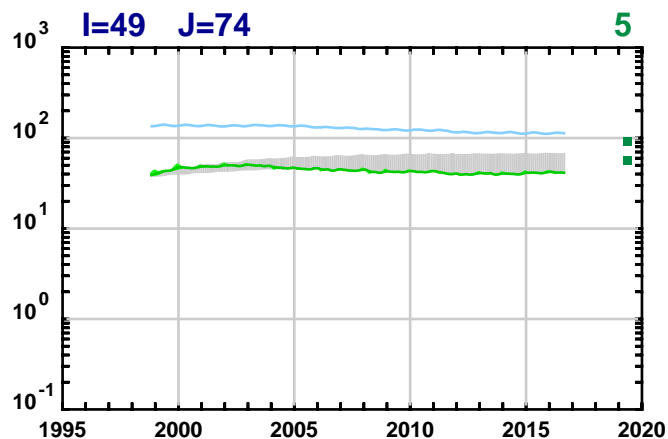
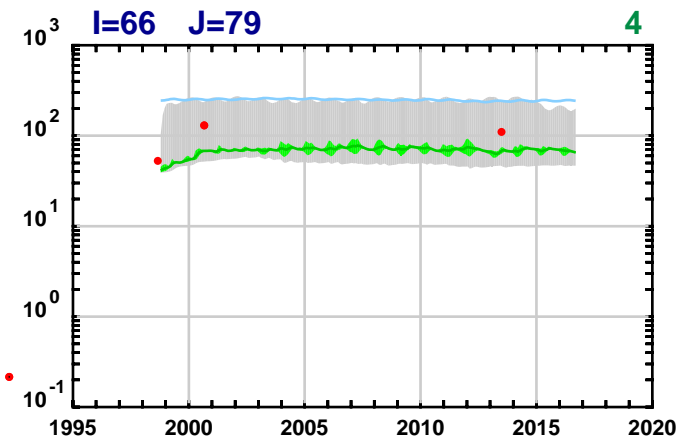
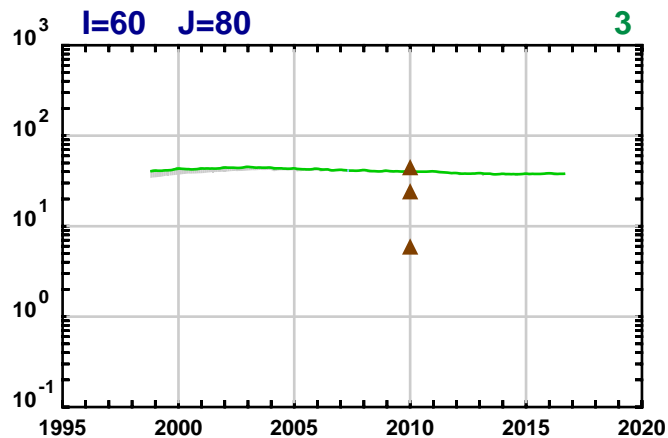
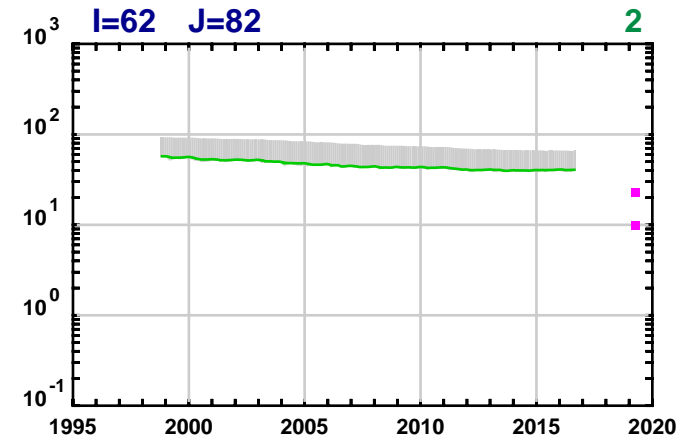
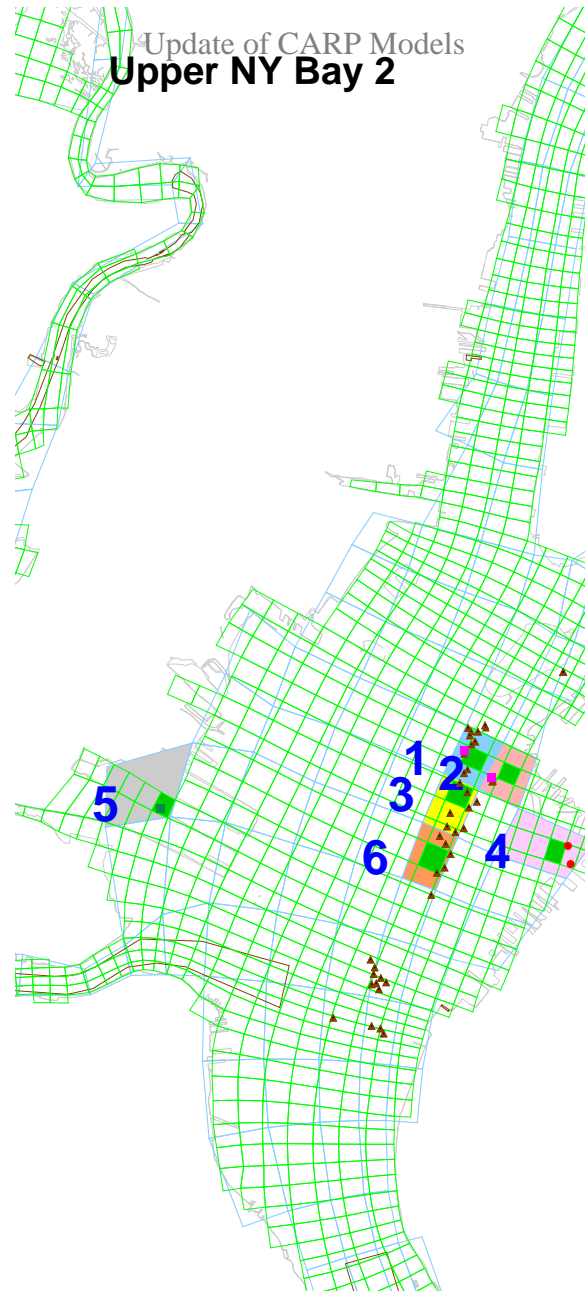
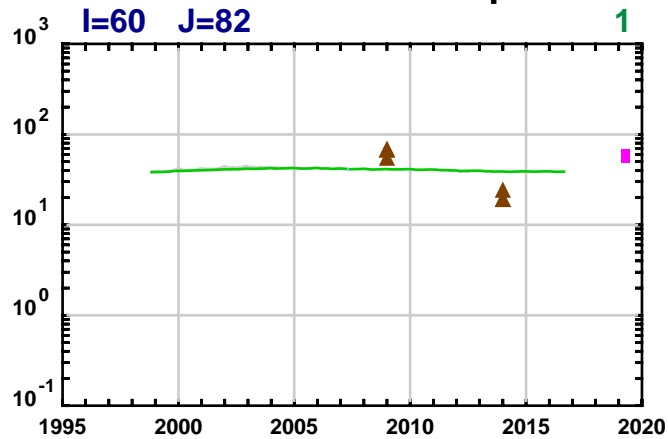
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,6,7,8-Heptachlorodibenzofuran ppt



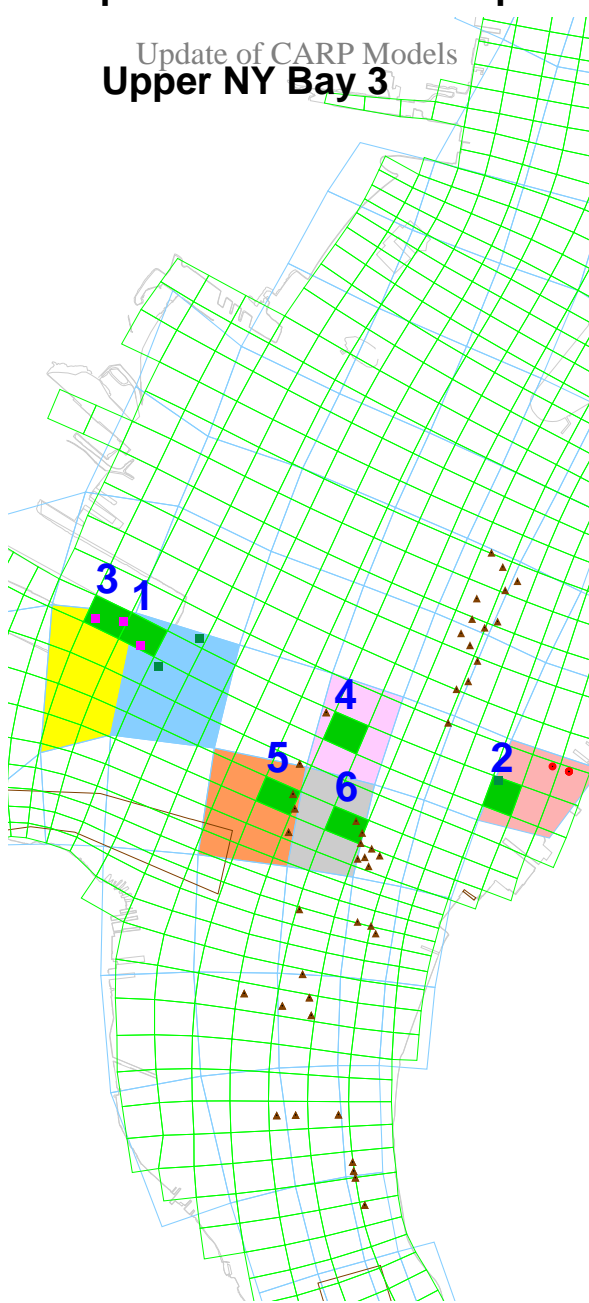
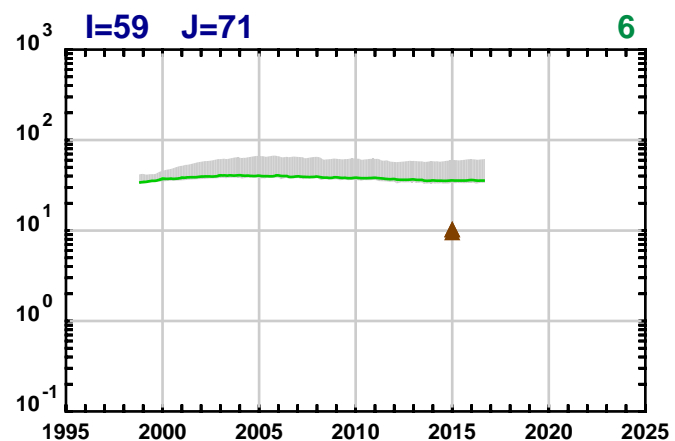
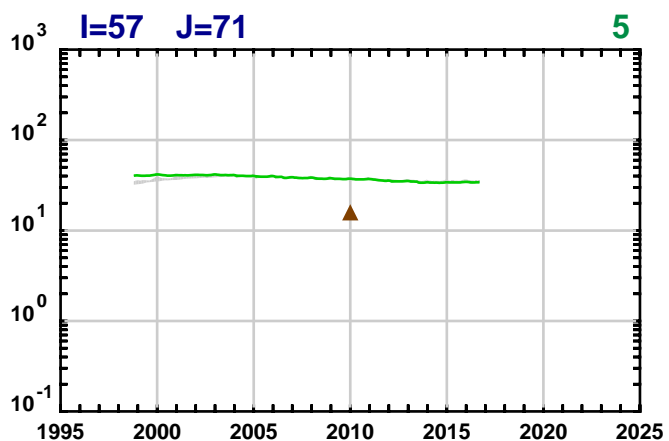
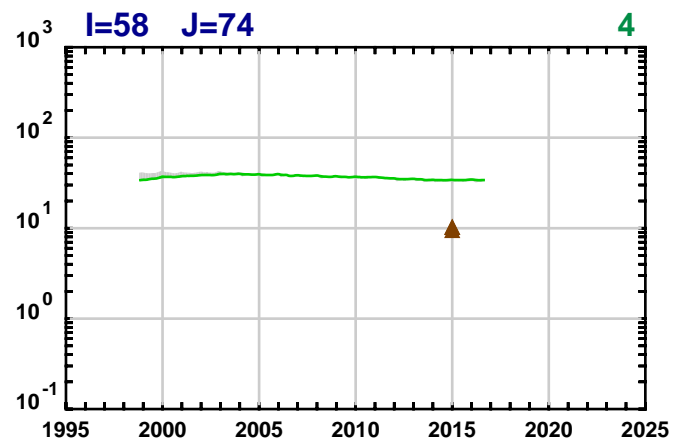
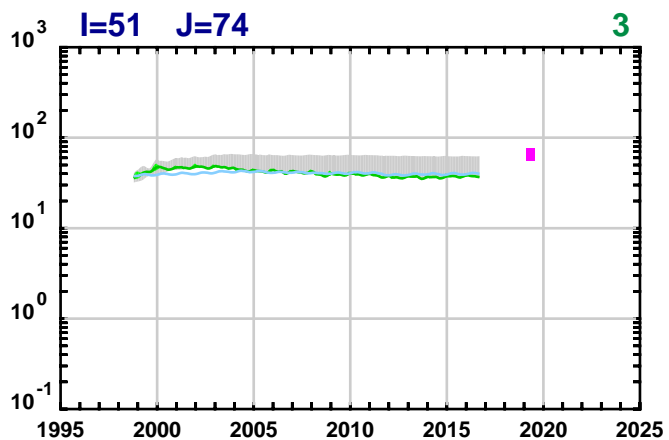
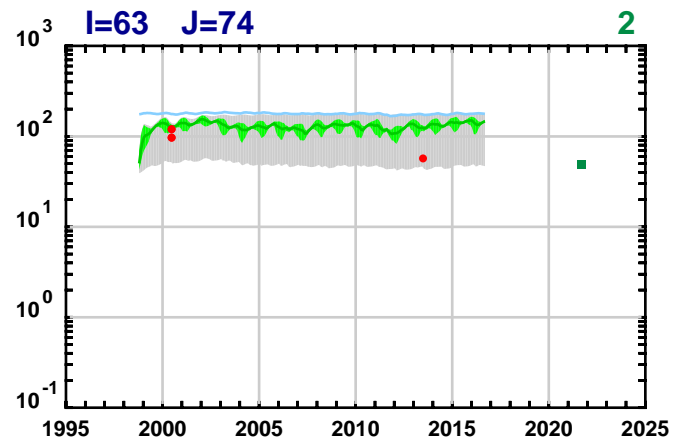
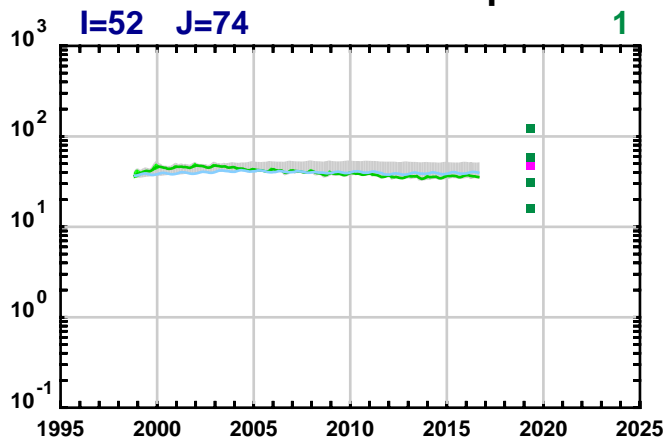
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,6,7,8-Heptachlorodibenzofuran ppt



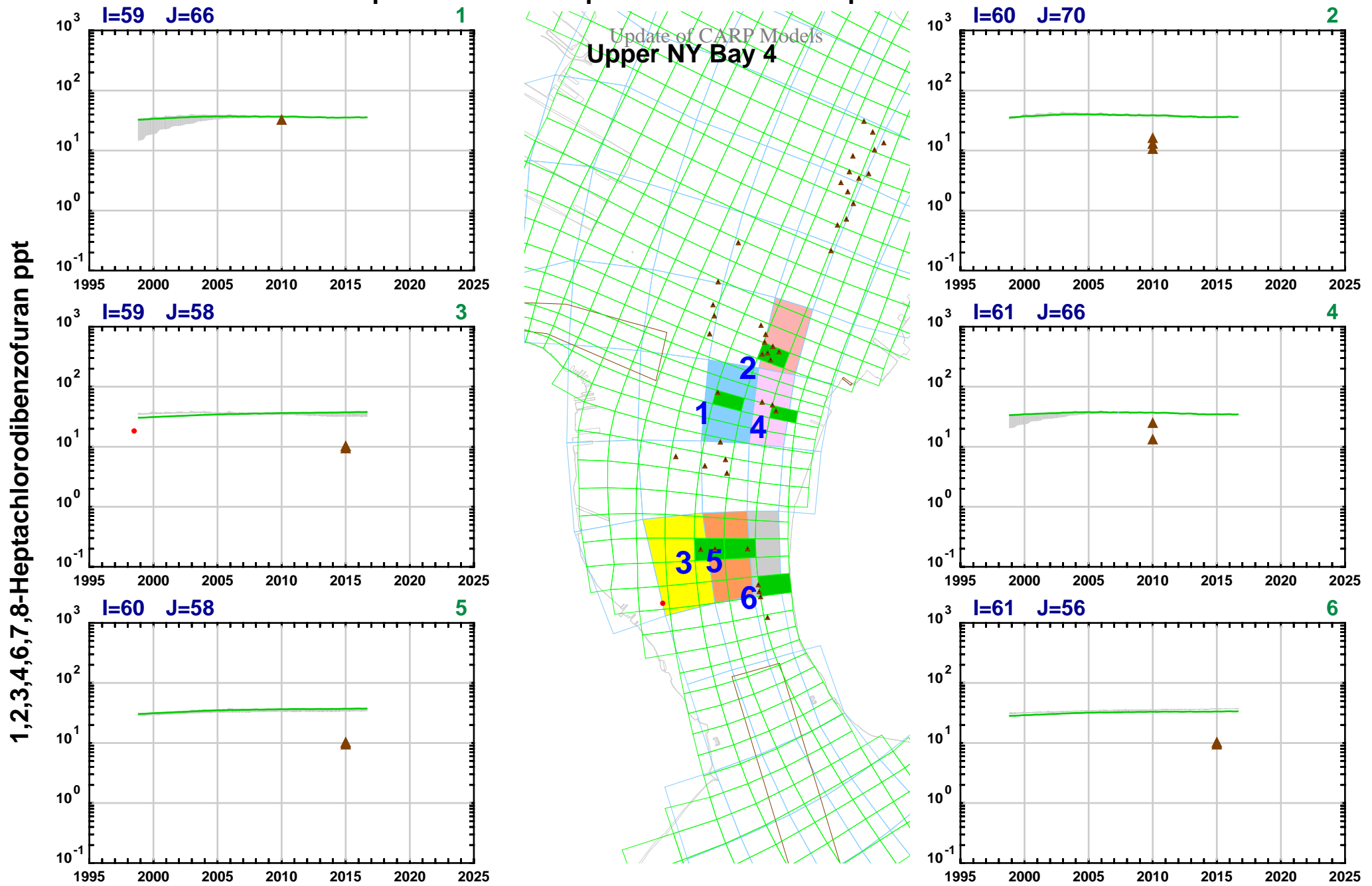
**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



RUN18\_S5\_R2

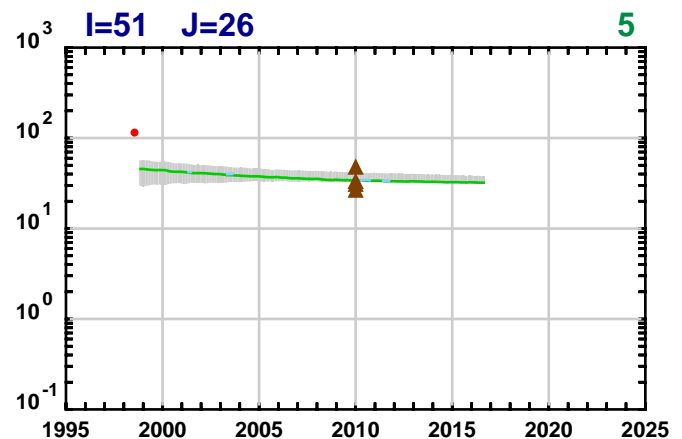
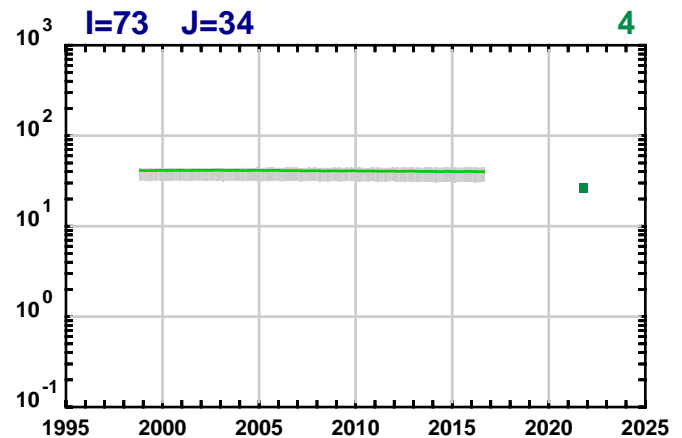
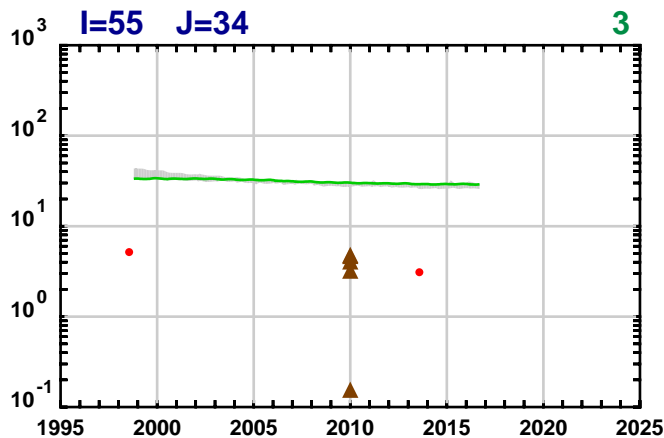
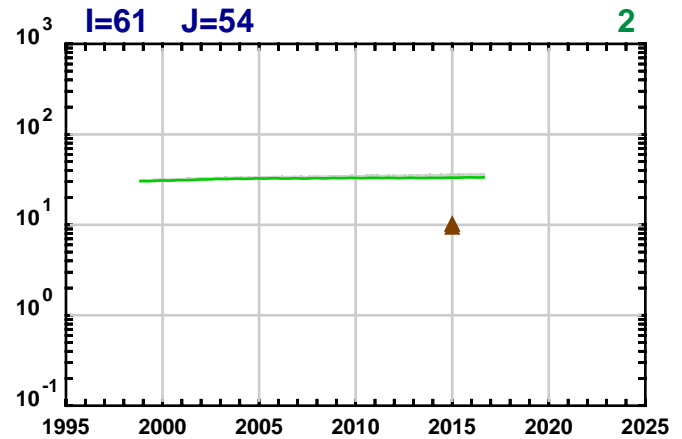
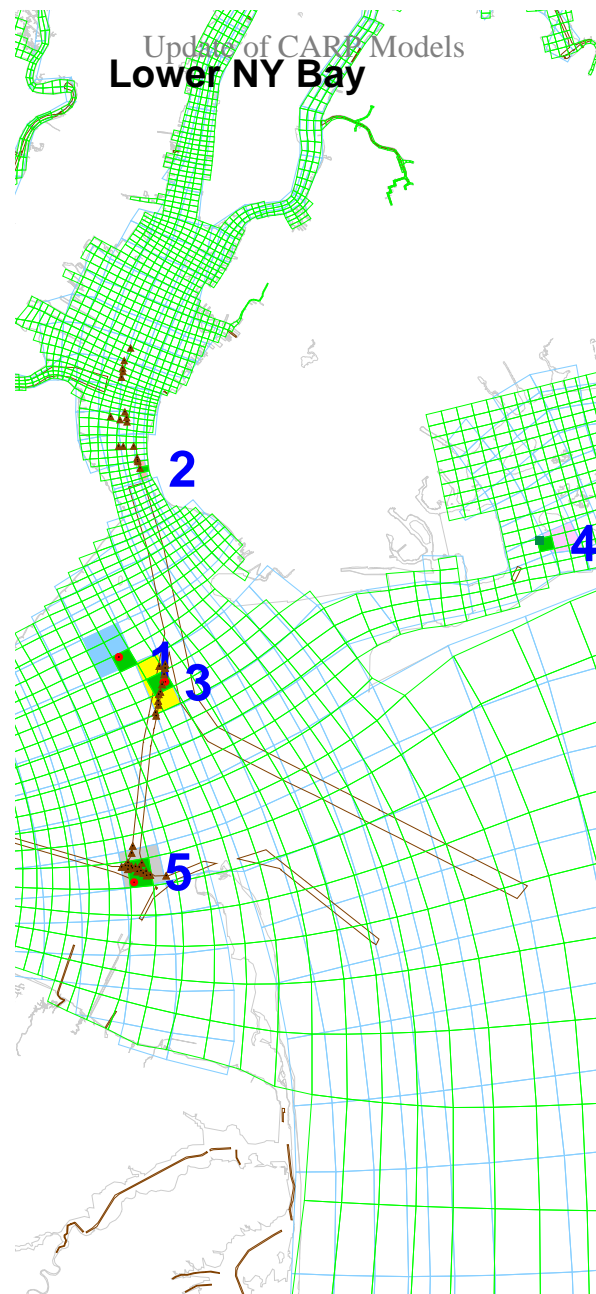
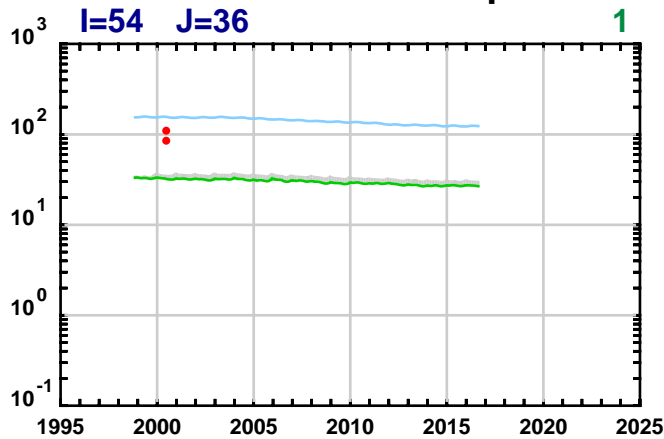
Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,6,7,8-Heptachlorodibenzofuran ppt



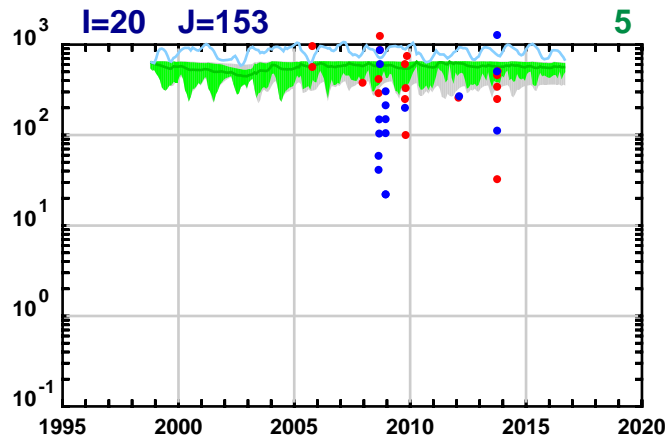
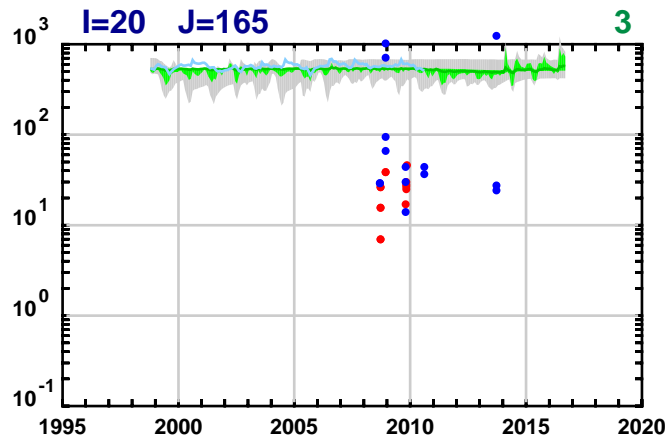
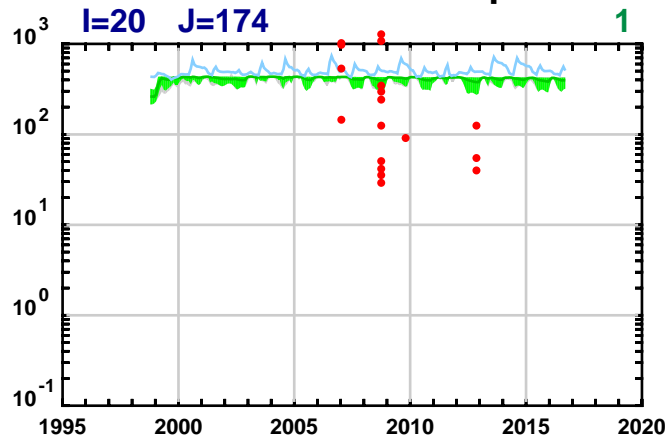
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

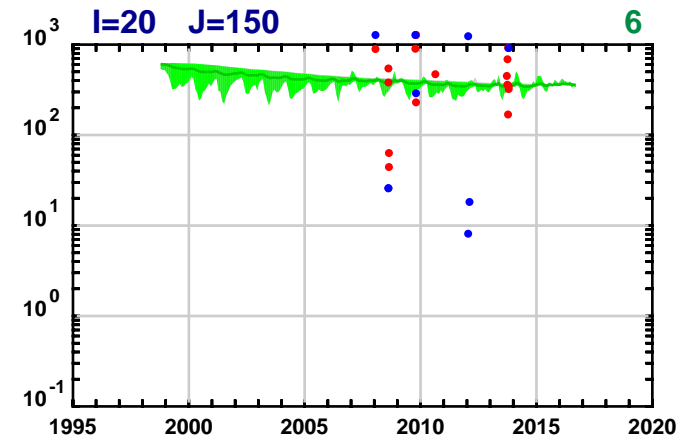
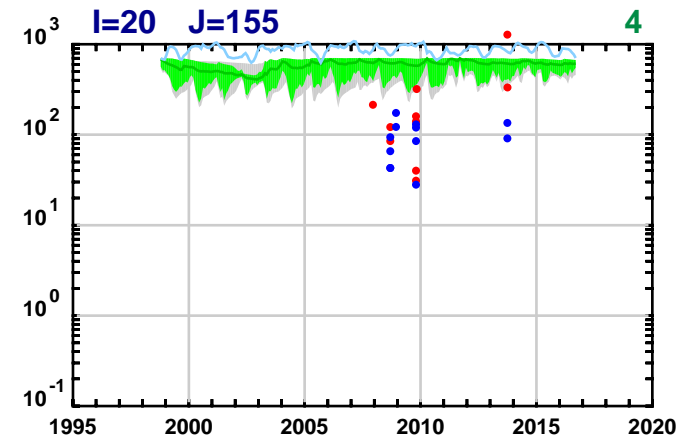
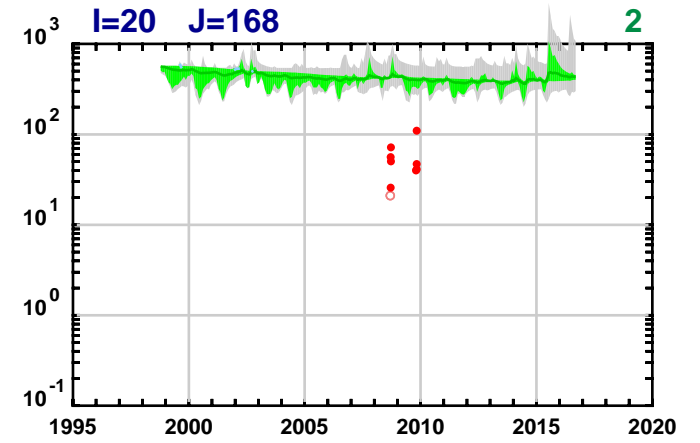
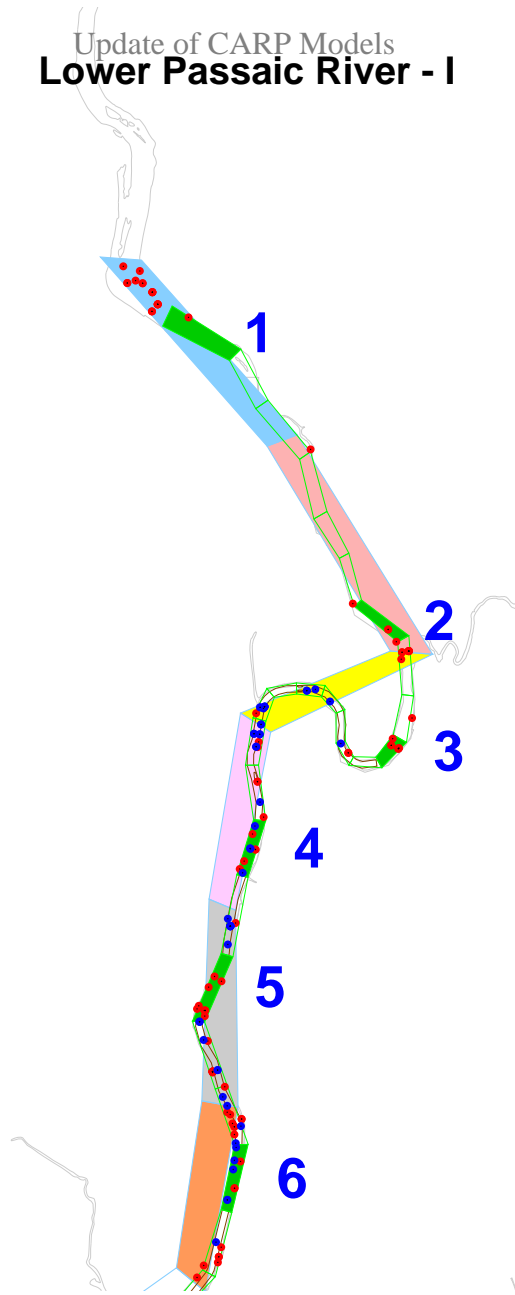
● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,5,6,7,8-Octachlorodibenzofuran ppt



## Update of CARP Models Lower Passaic River - I



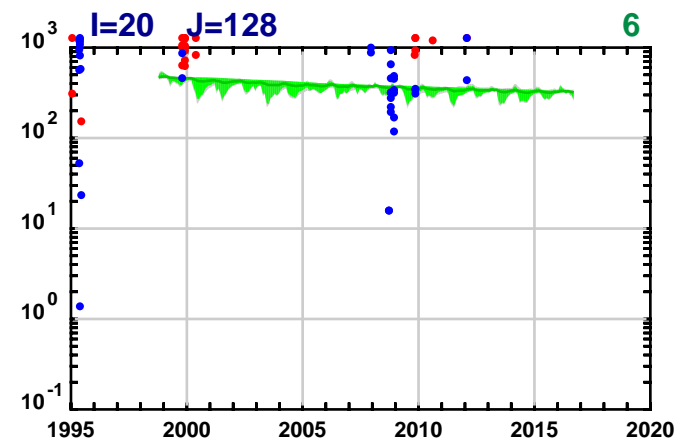
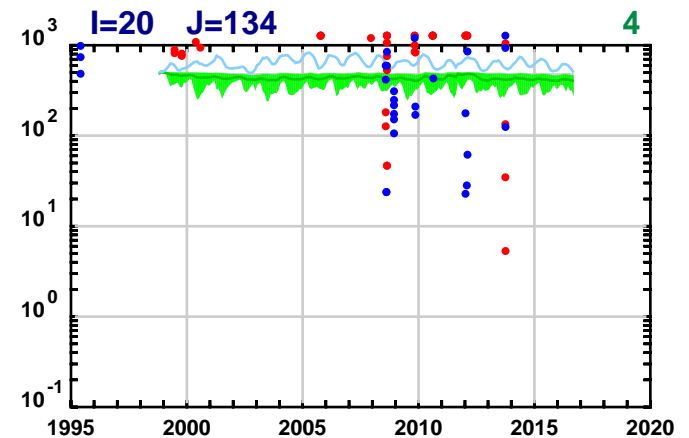
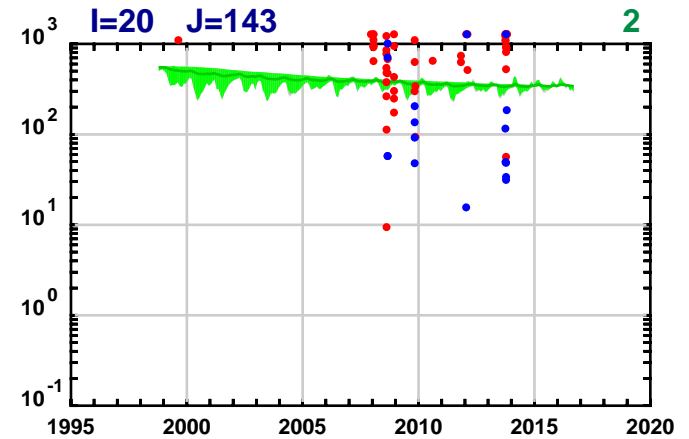
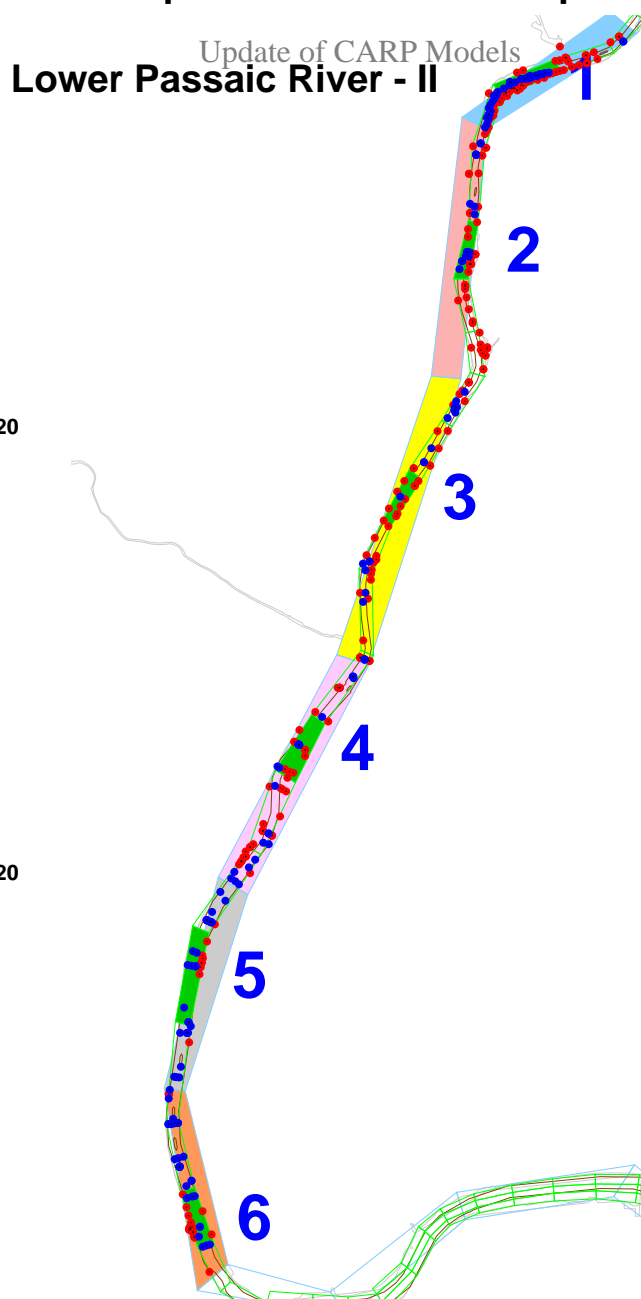
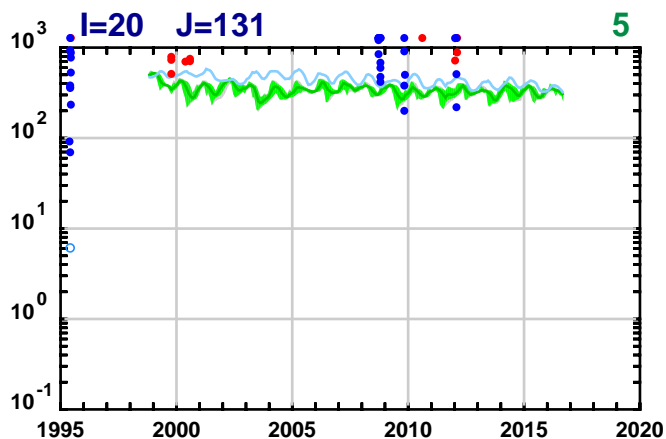
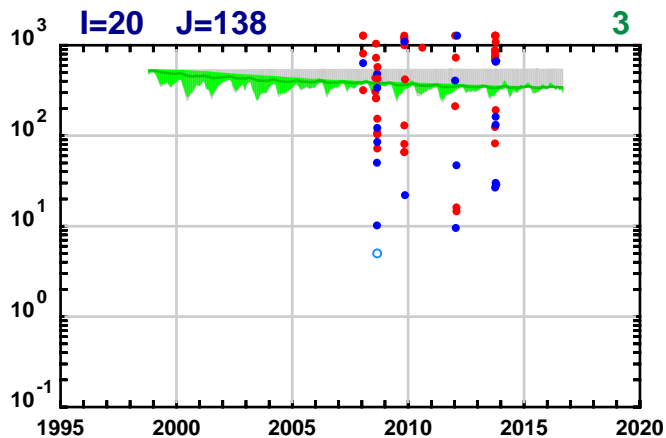
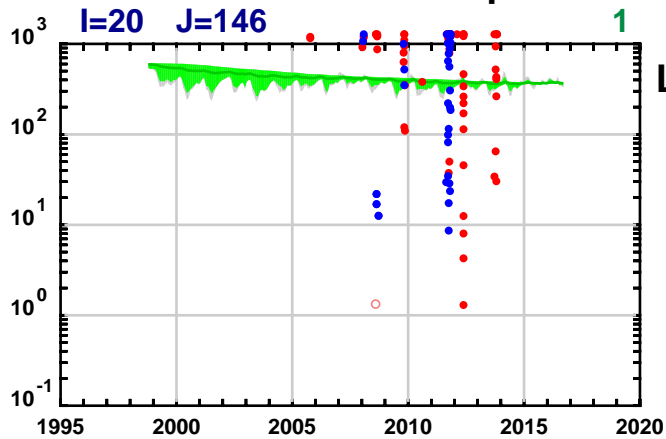
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,5,6,7,8-Octachlorodibenzofuran ppt



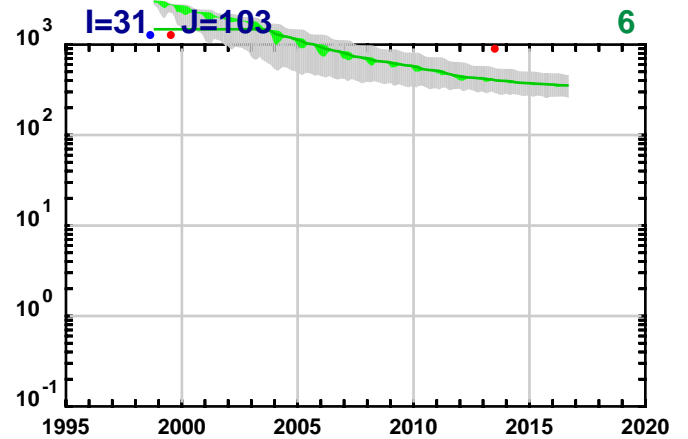
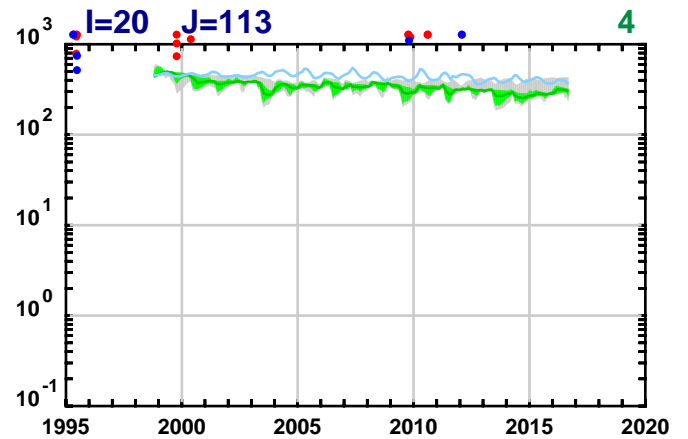
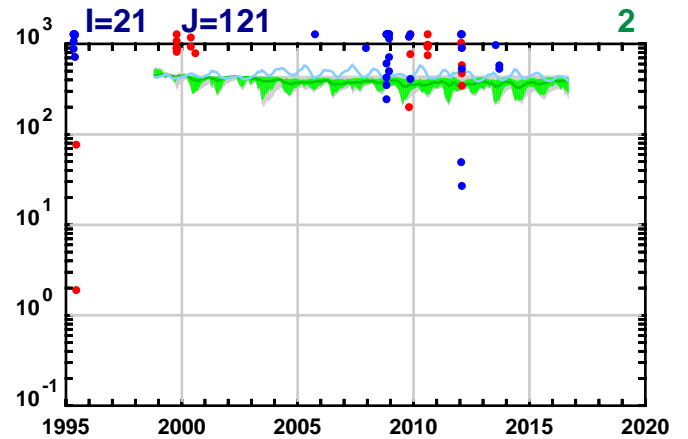
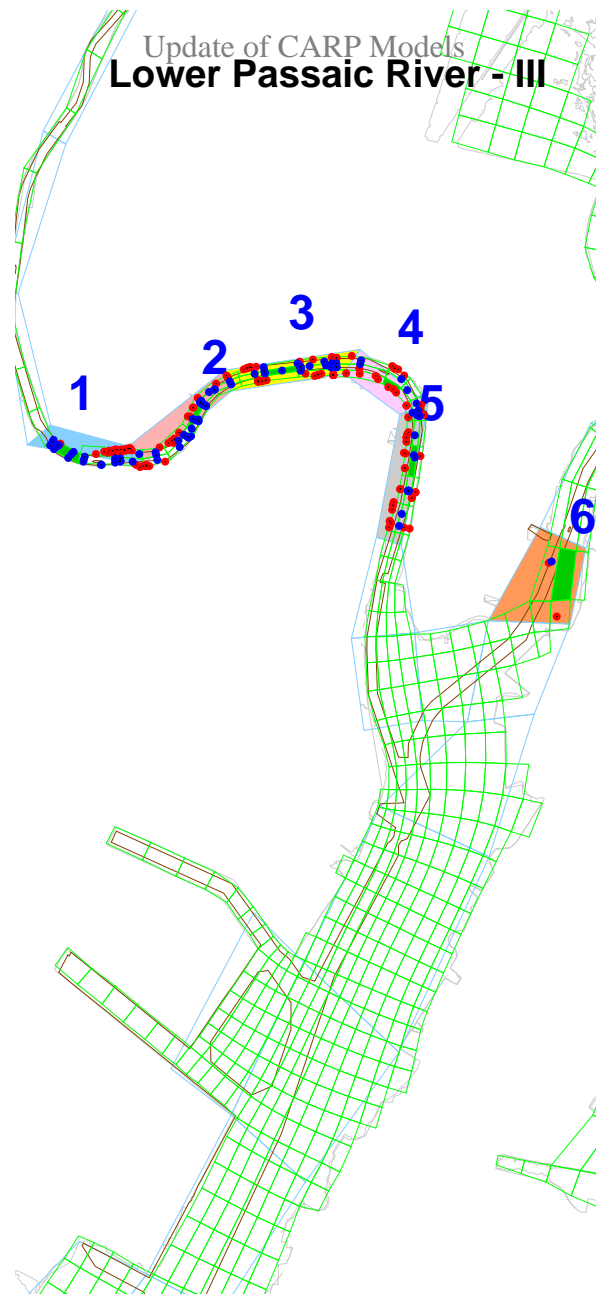
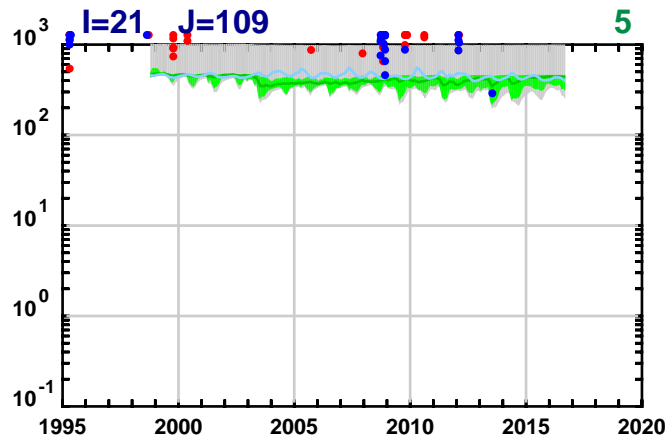
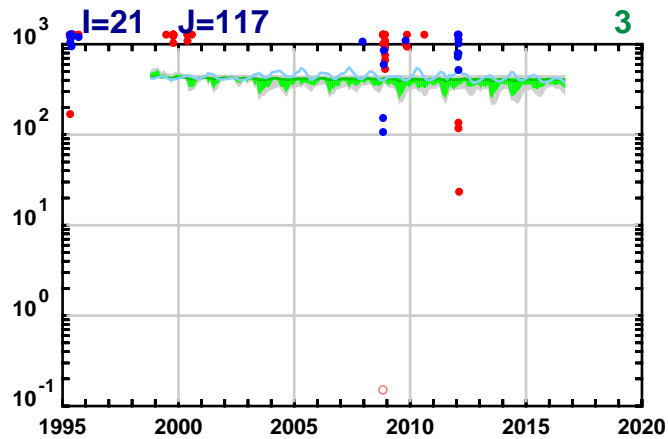
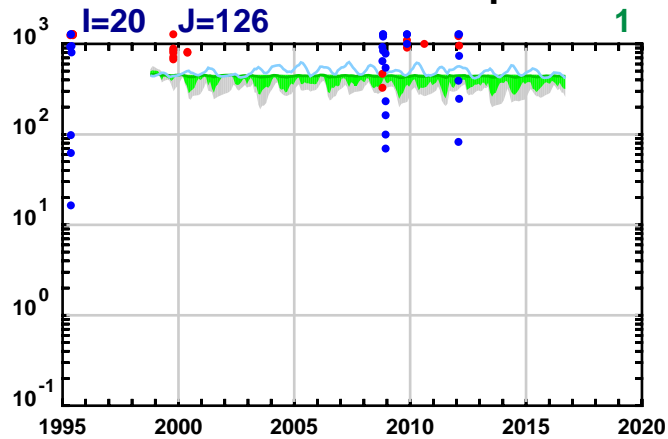
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,5,6,7,8-Octachlorodibenzofuran ppt



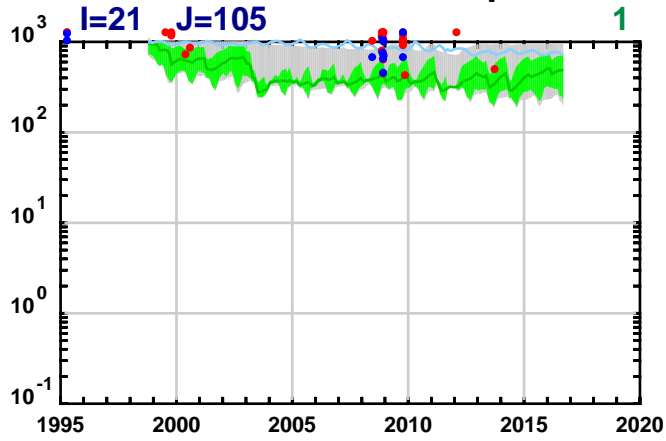
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

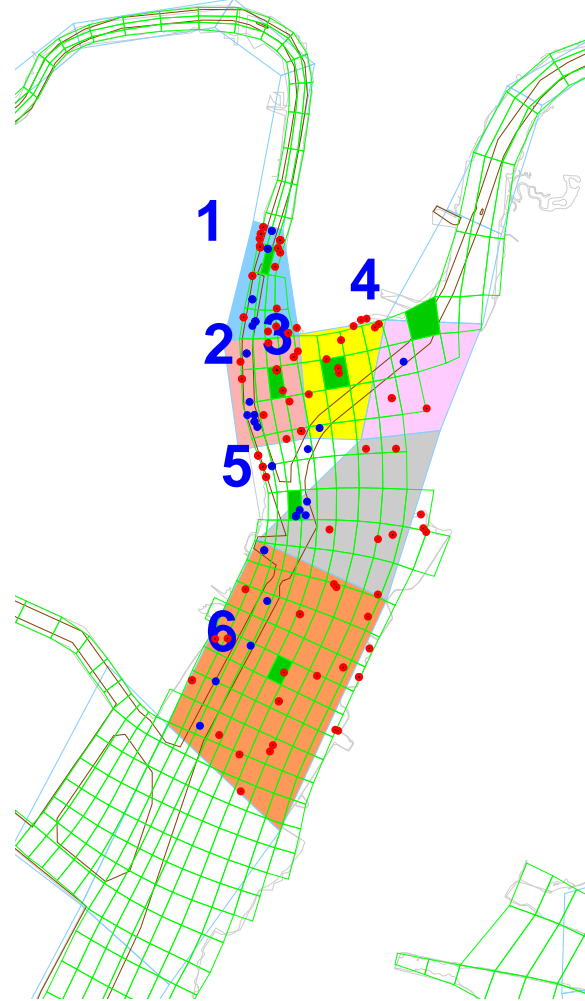
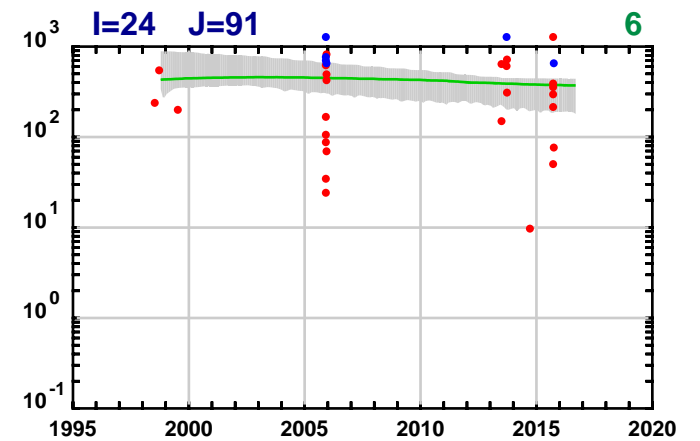
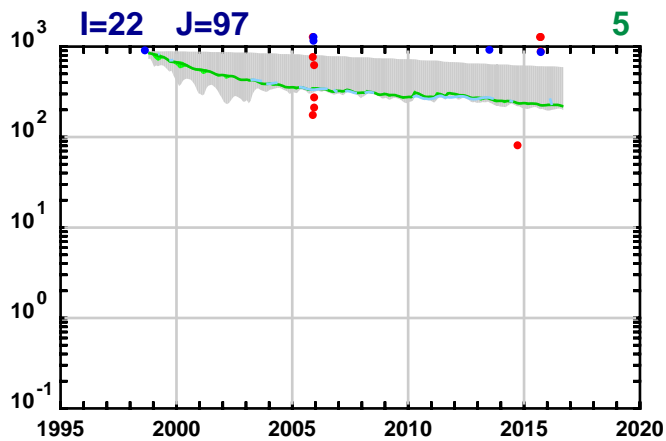
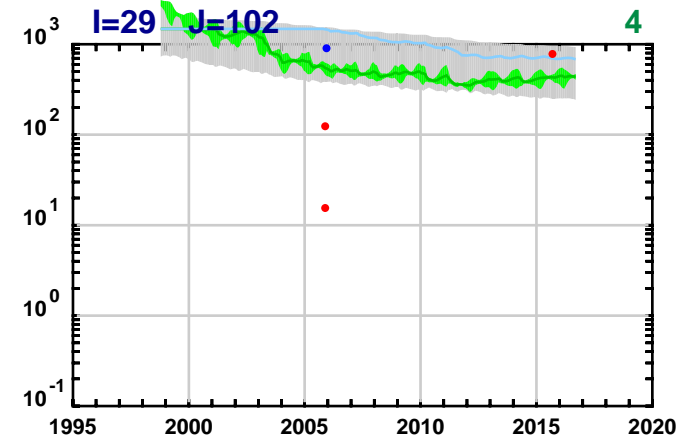
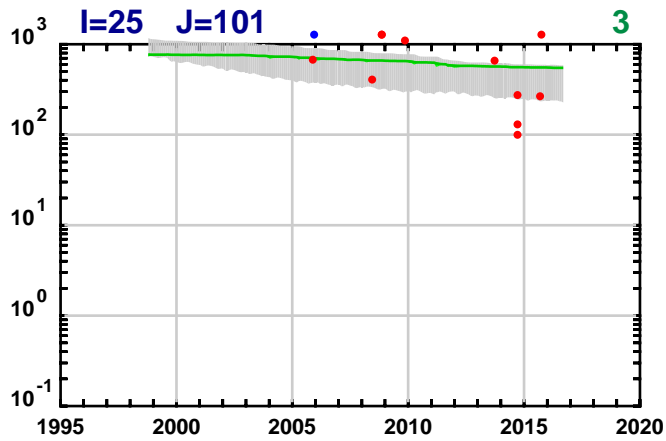
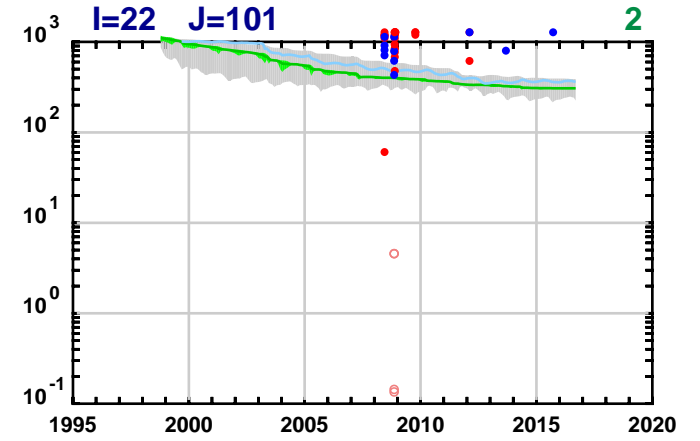
● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,5,6,7,8-Octachlorodibenzofuran ppt



Update of CARP Models  
Upper Newark Bay



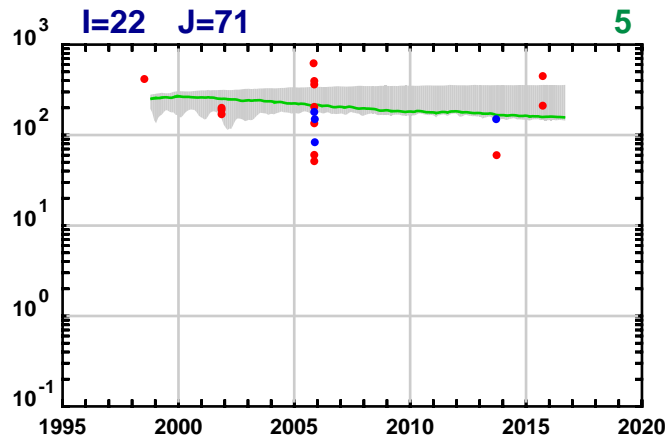
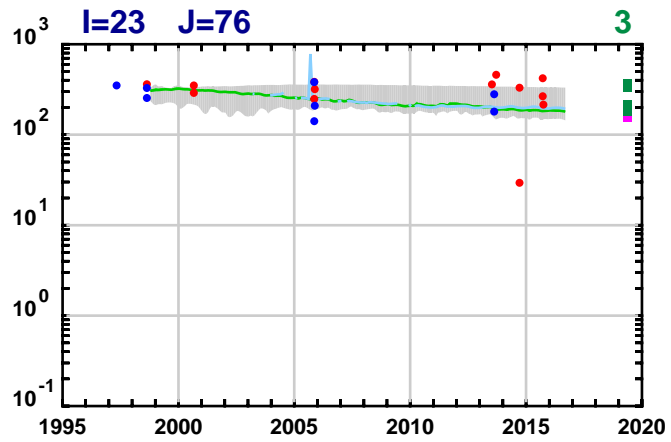
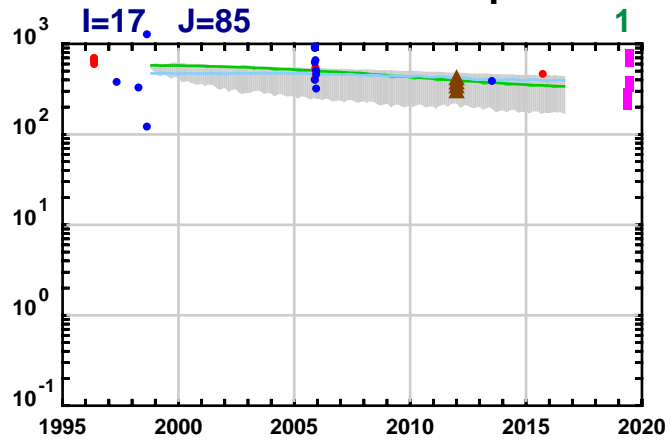
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

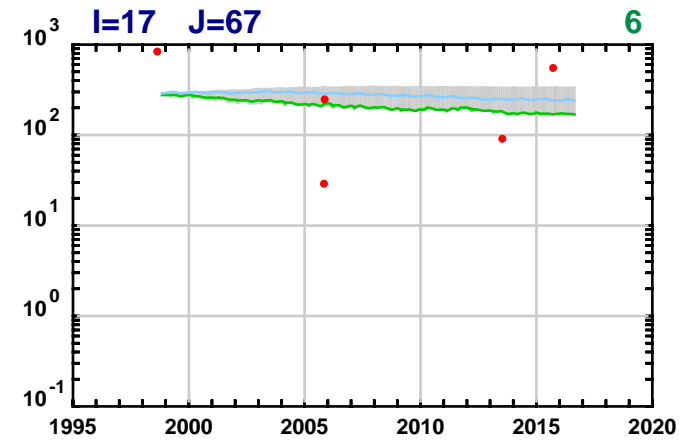
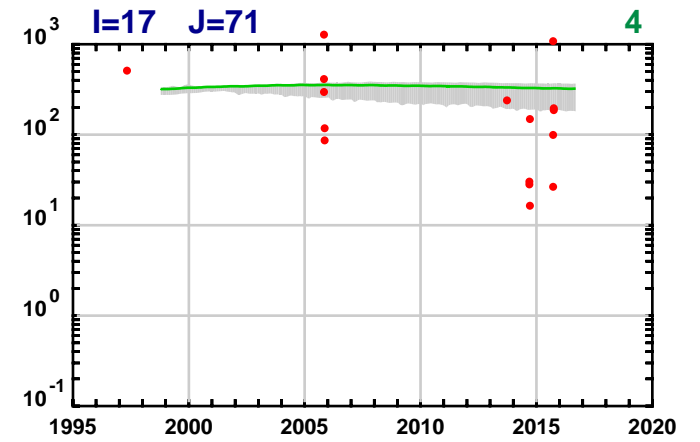
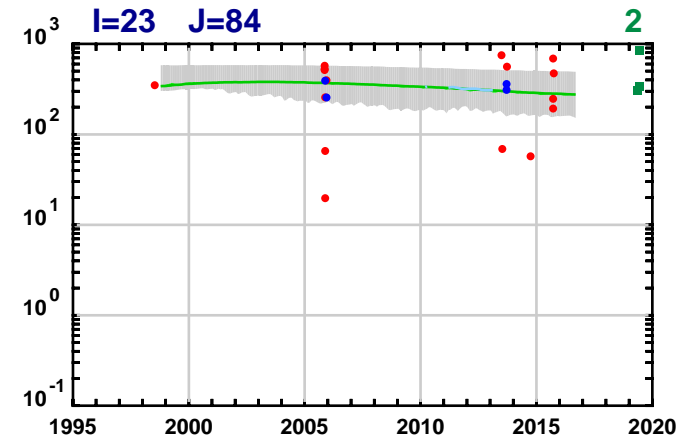
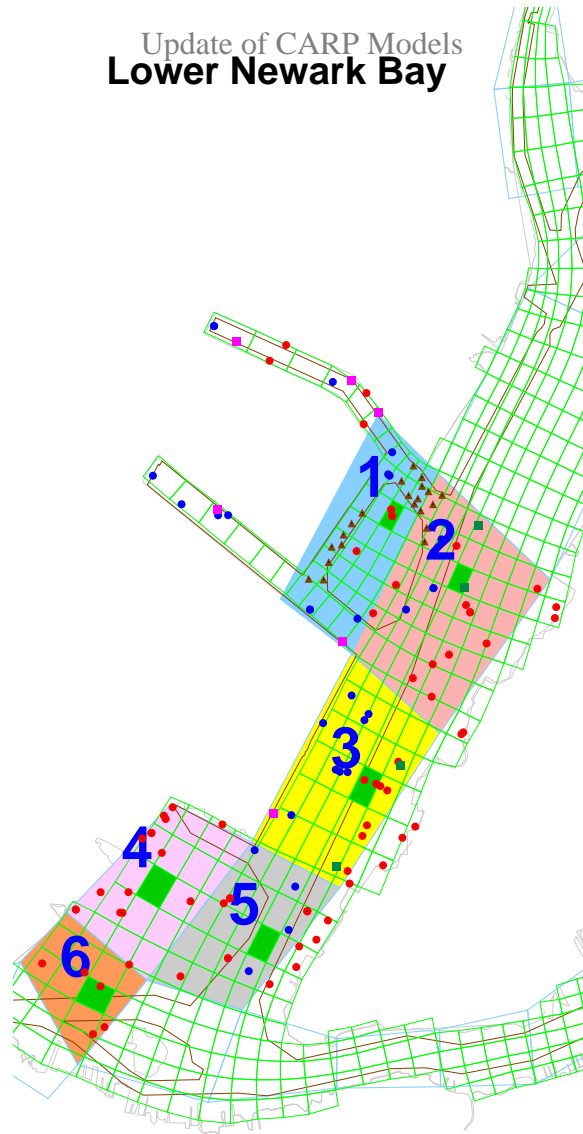
● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,5,6,7,8-Octachlorodibenzofuran ppt



Update of CARP Models  
Lower Newark Bay



RUN18\_S5\_R2

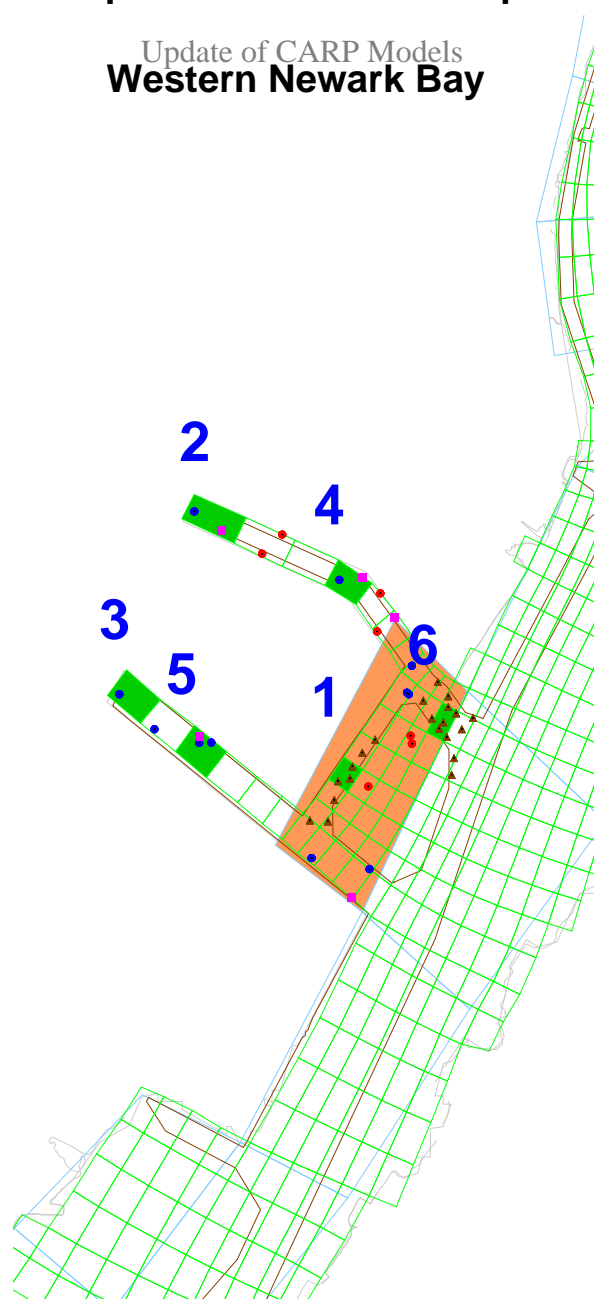
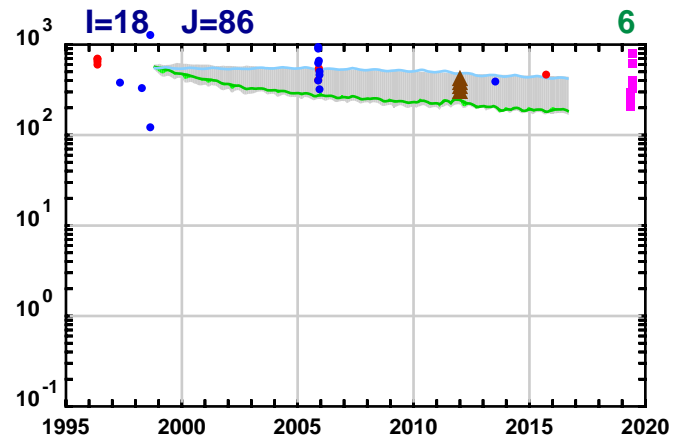
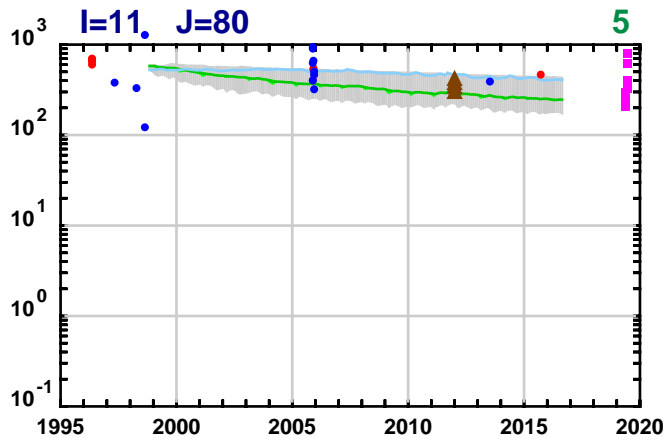
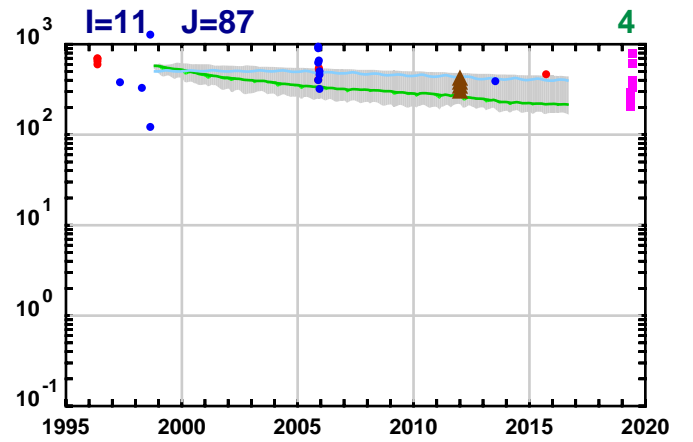
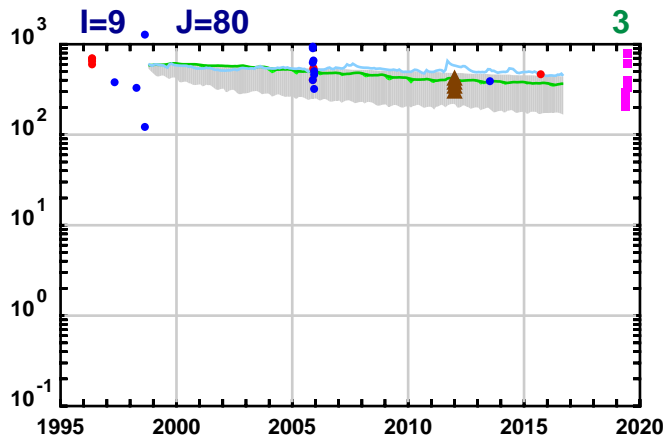
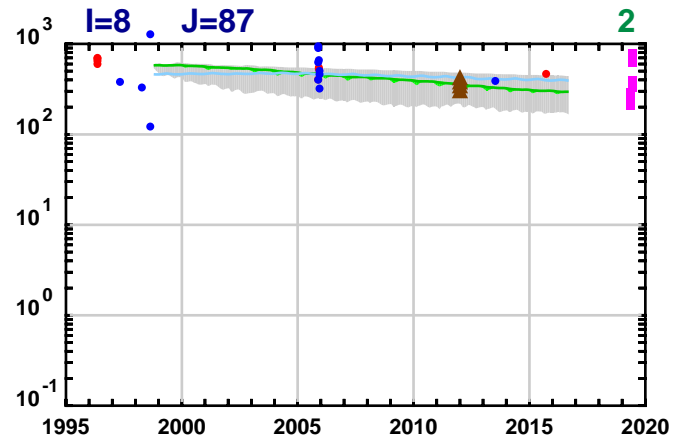
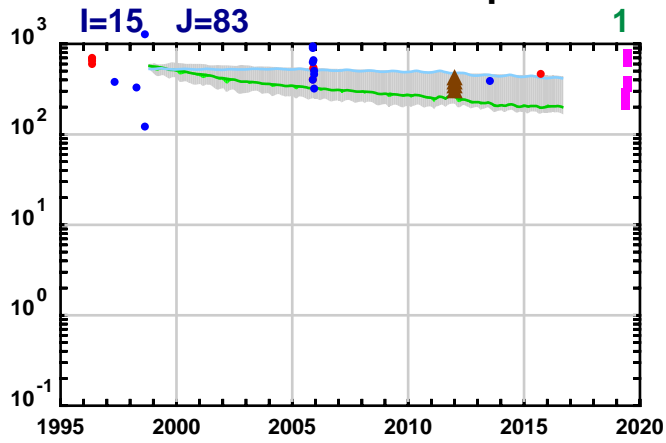
Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay

1,2,3,4,5,6,7,8-Octachlorodibenzofuran ppt



RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

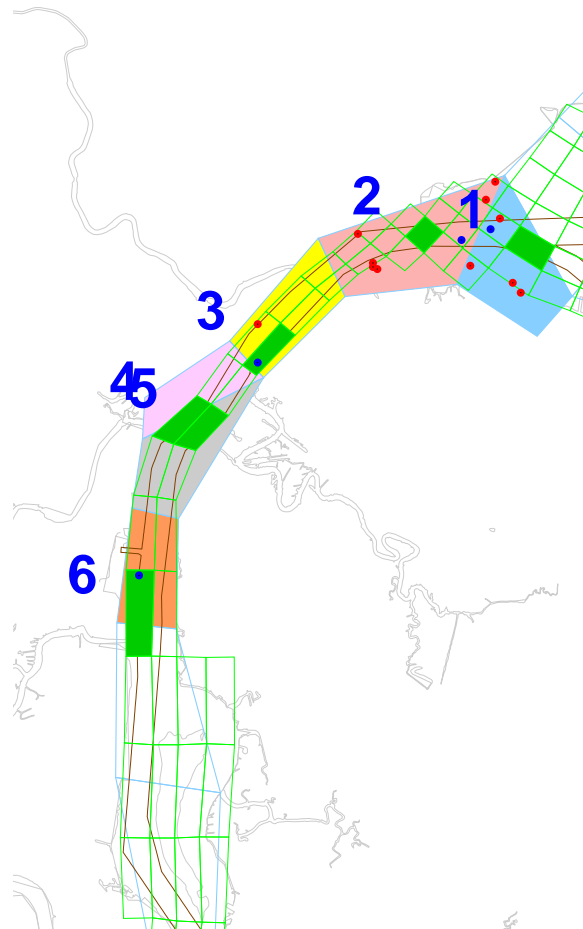
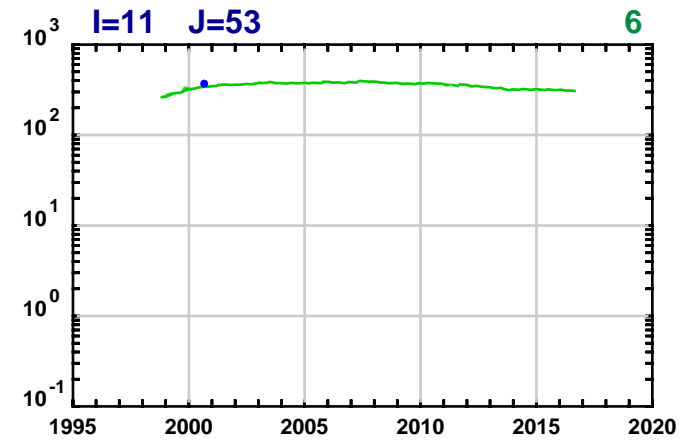
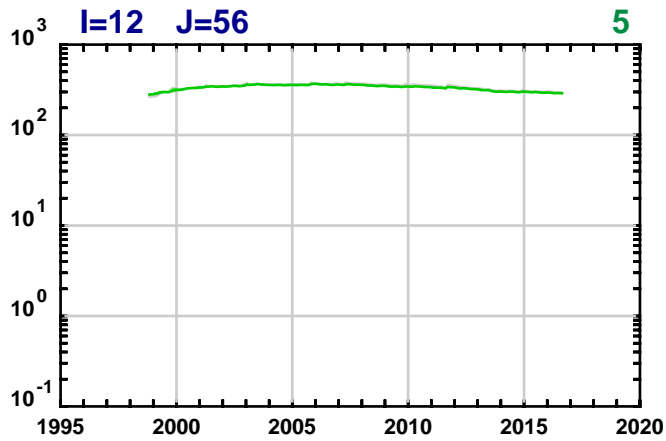
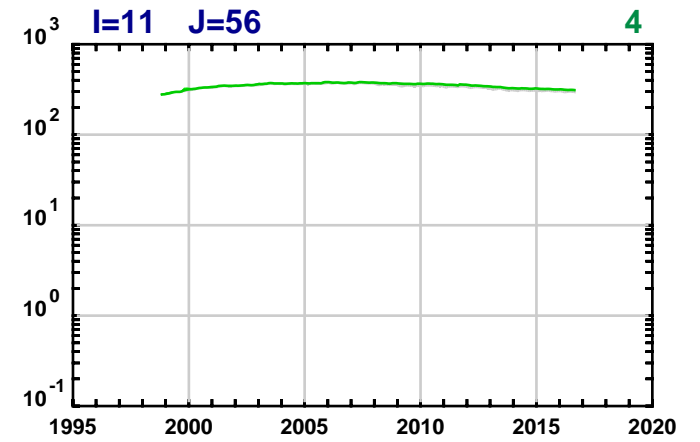
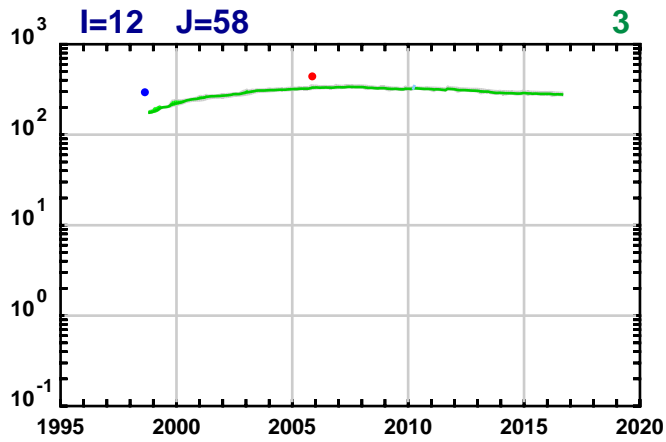
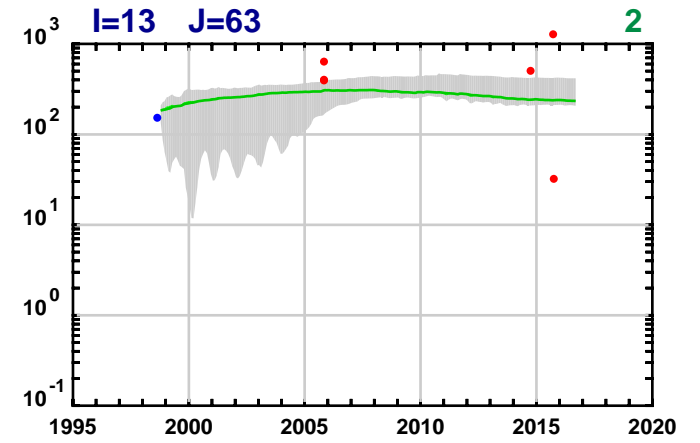
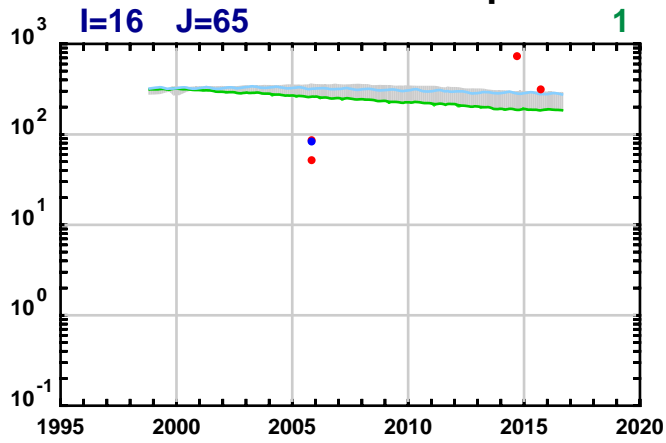
● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

1,2,3,4,5,6,7,8-Octachlorodibenzofuran ppt

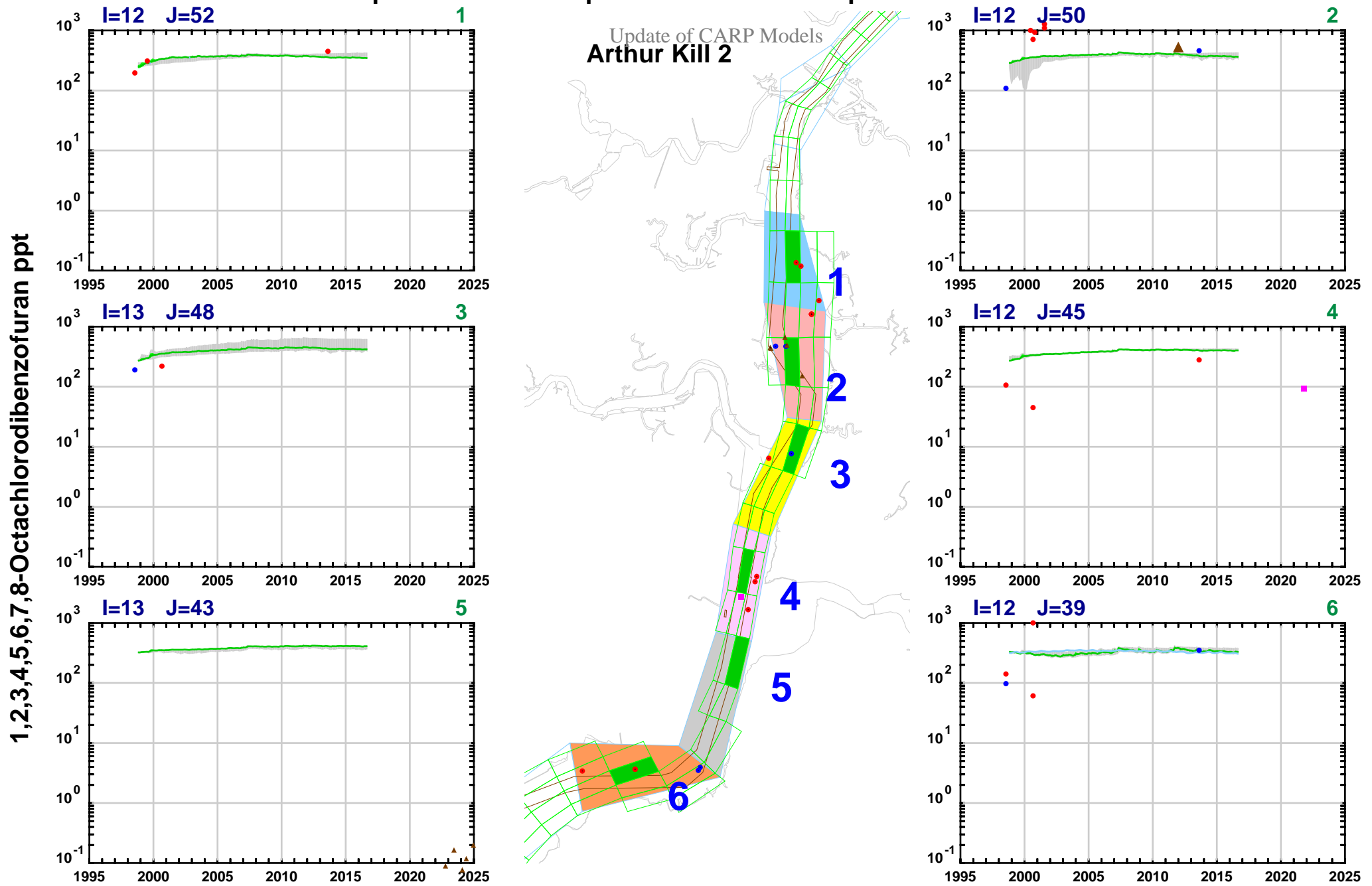


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



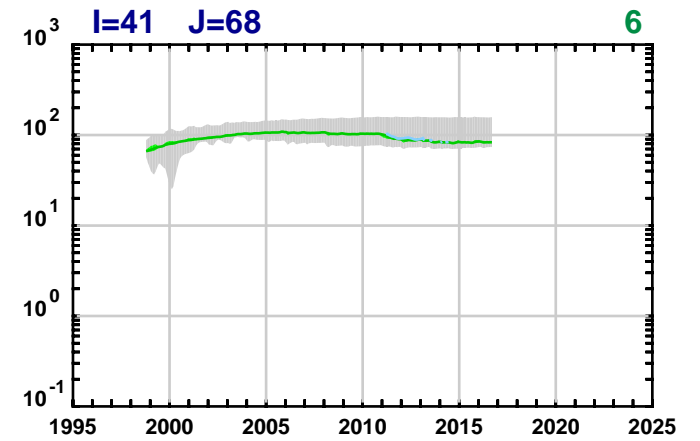
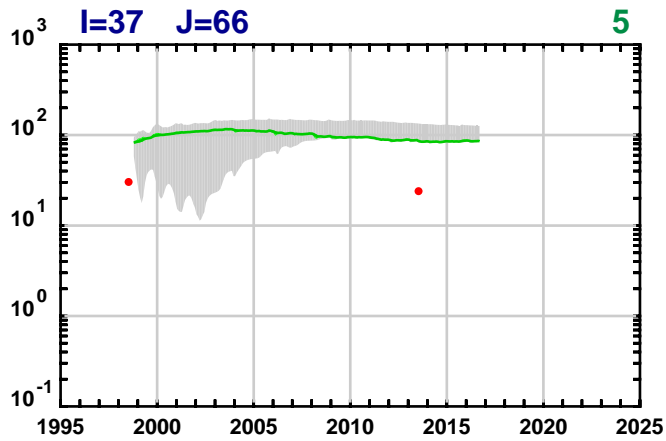
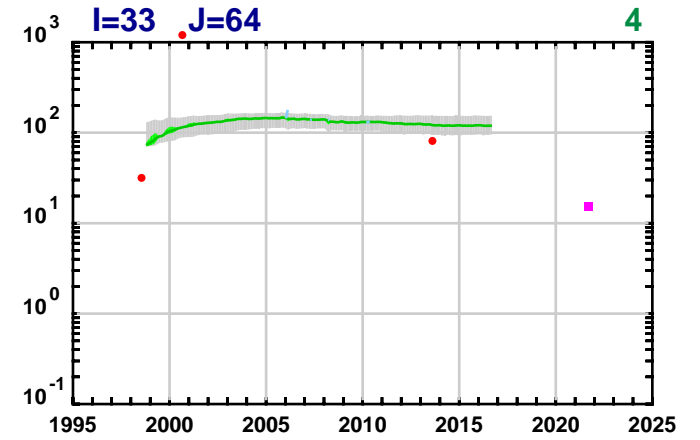
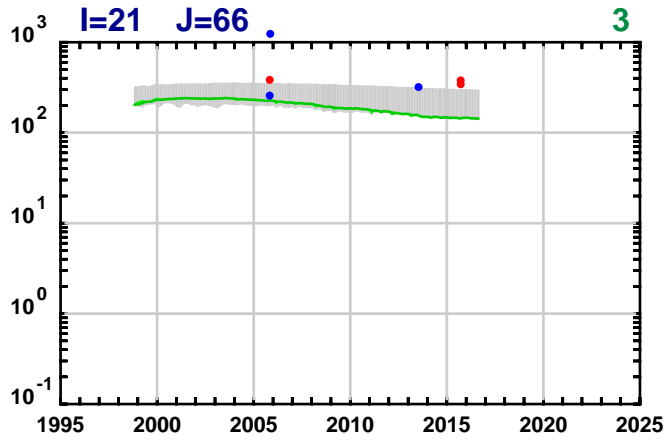
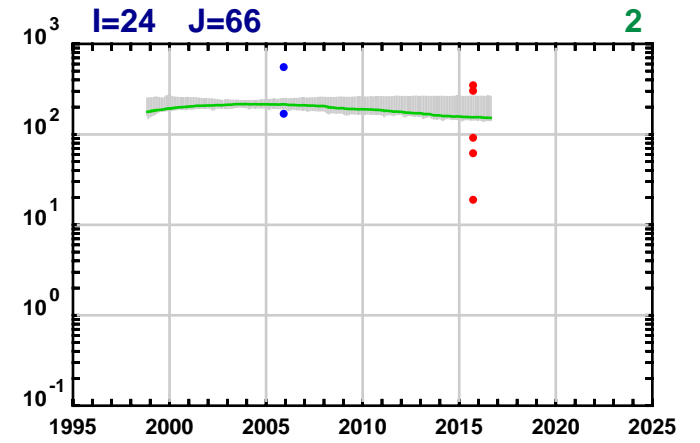
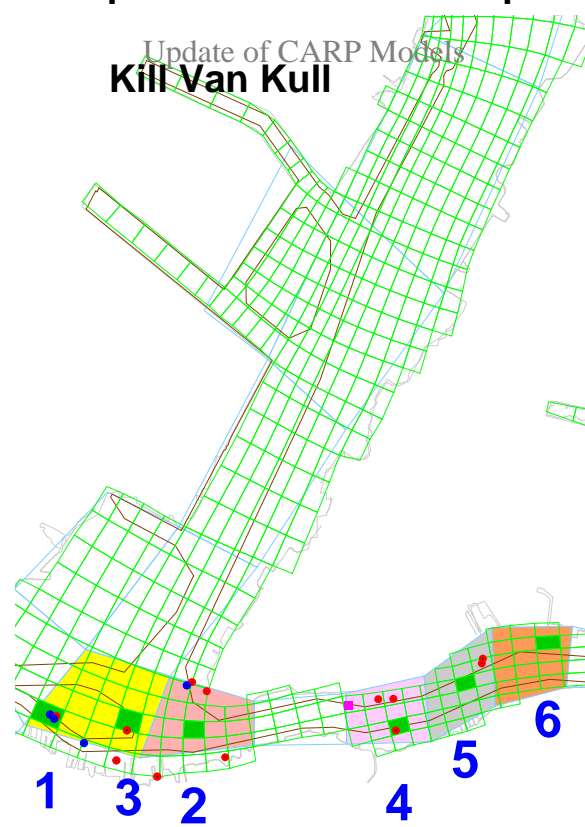
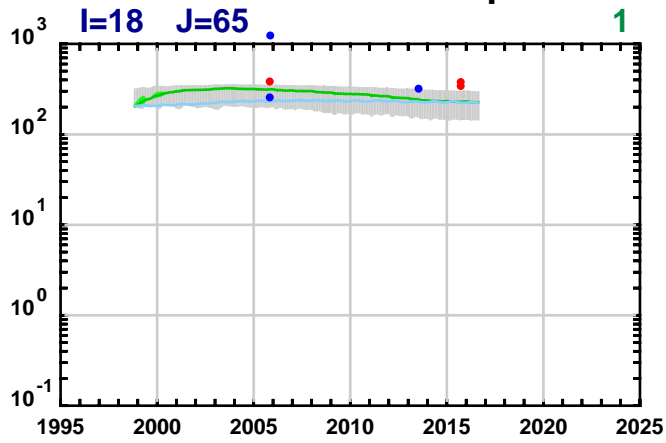
**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,5,6,7,8-Octachlorodibenzofuran ppt

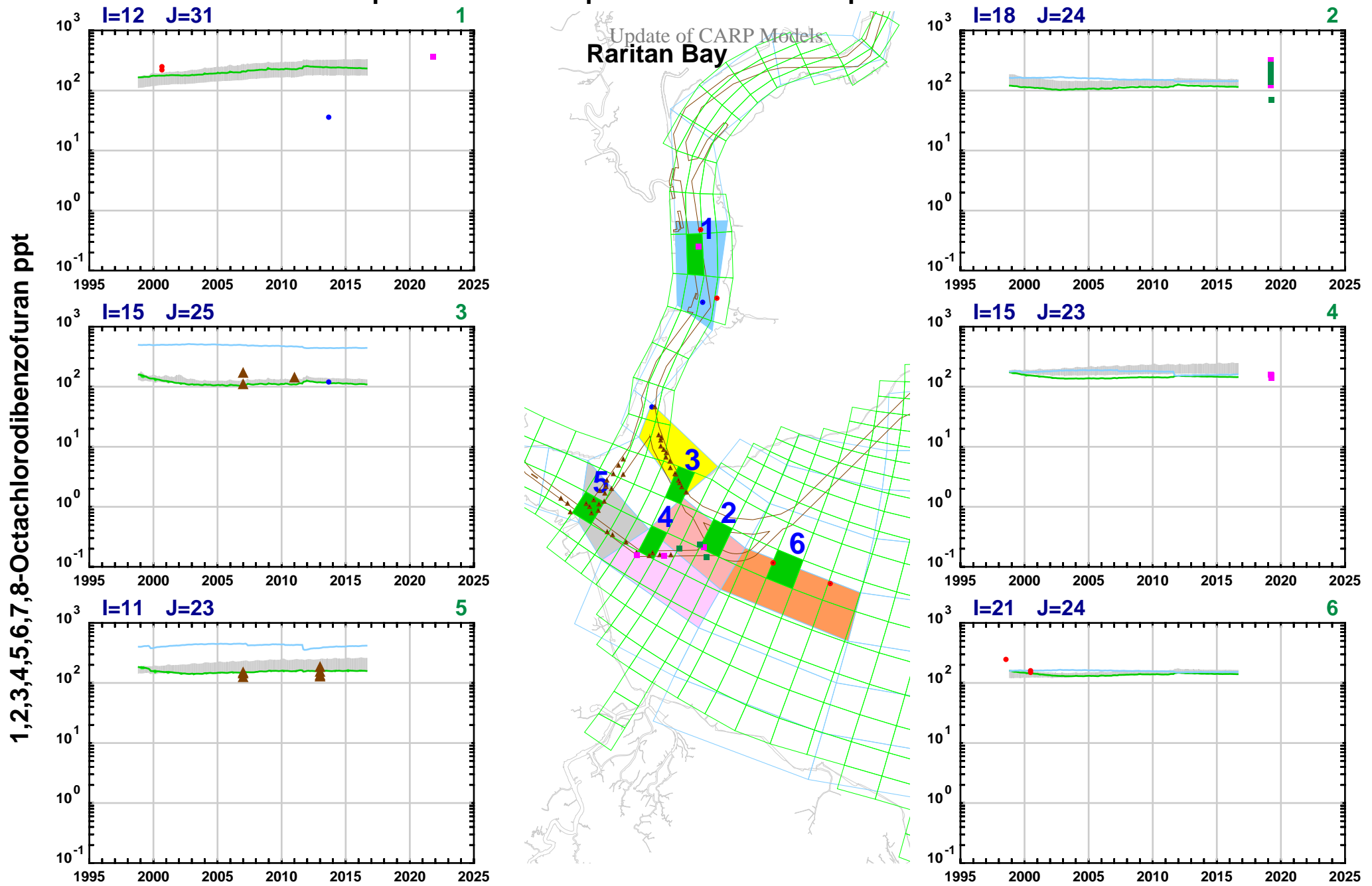


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

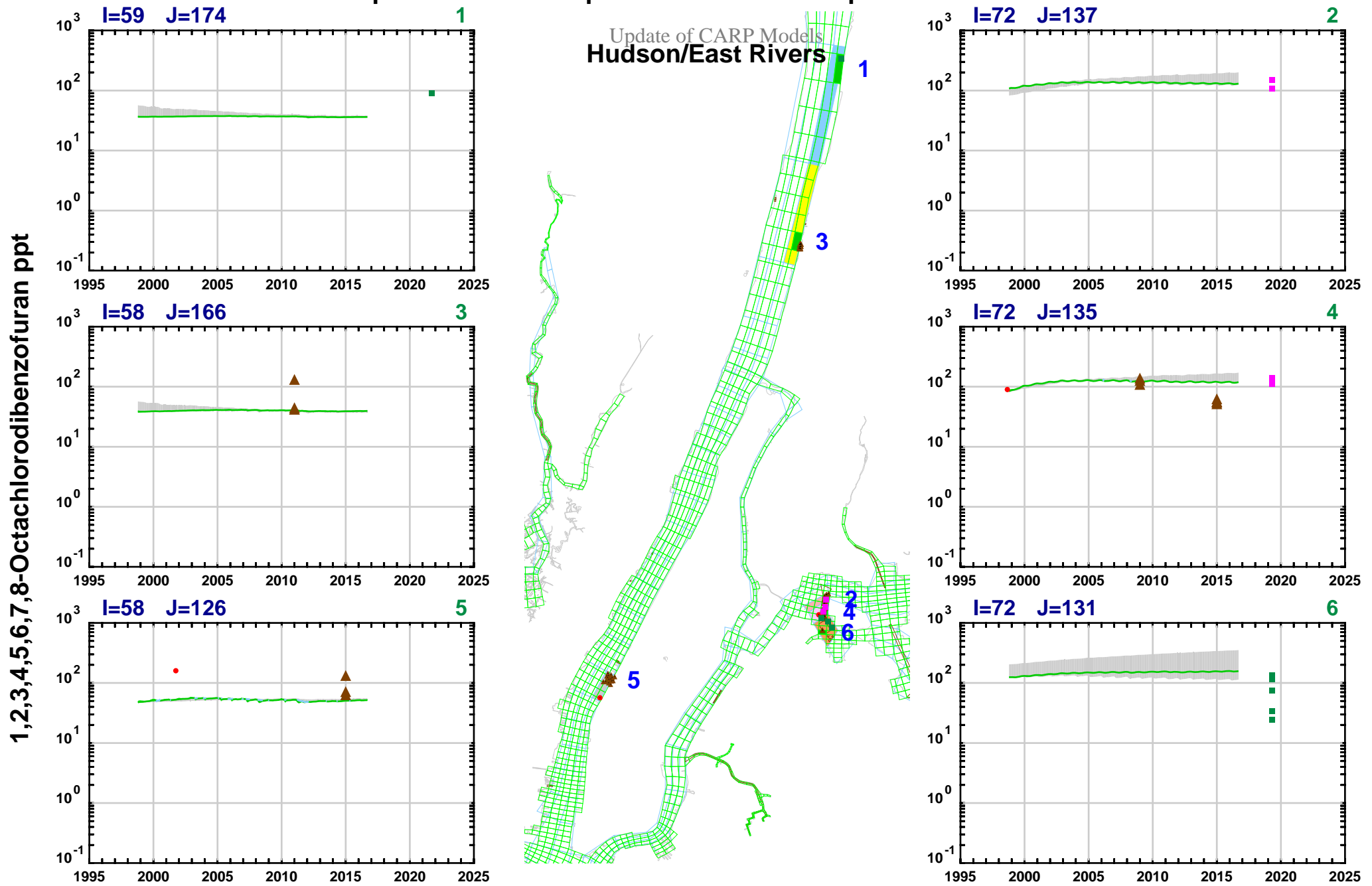


**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

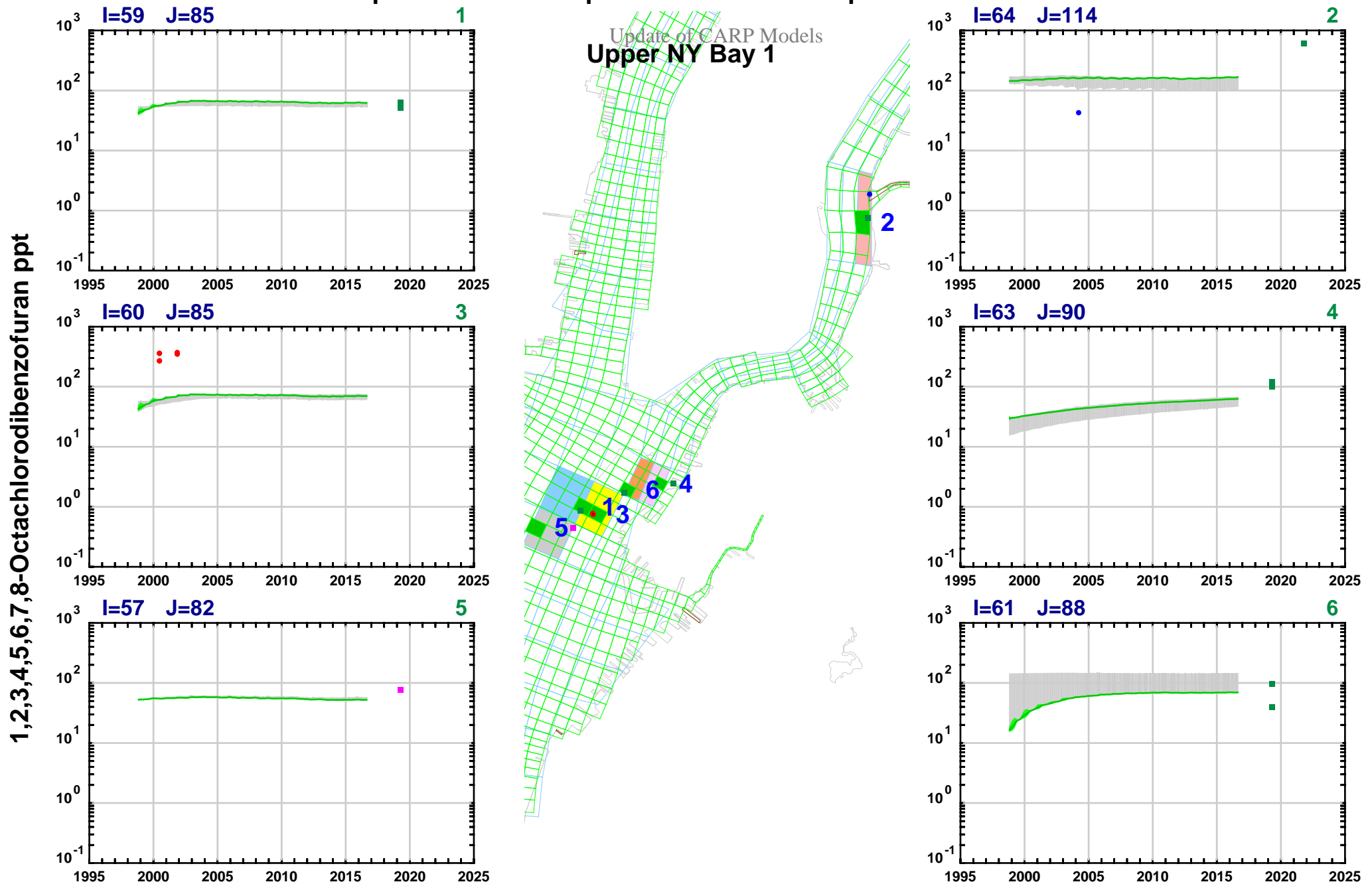


**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

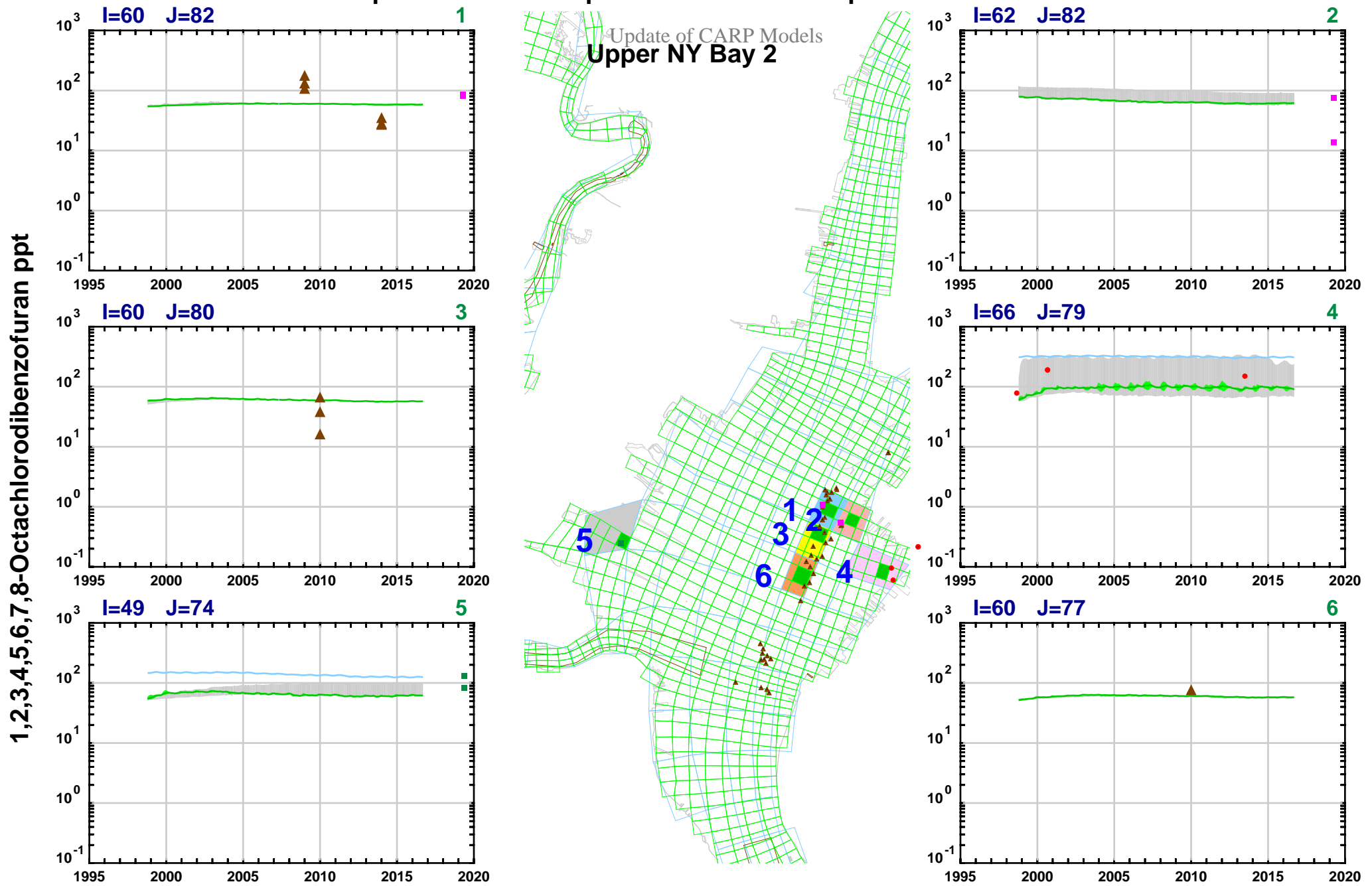


**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



RUN18\_S5\_R2

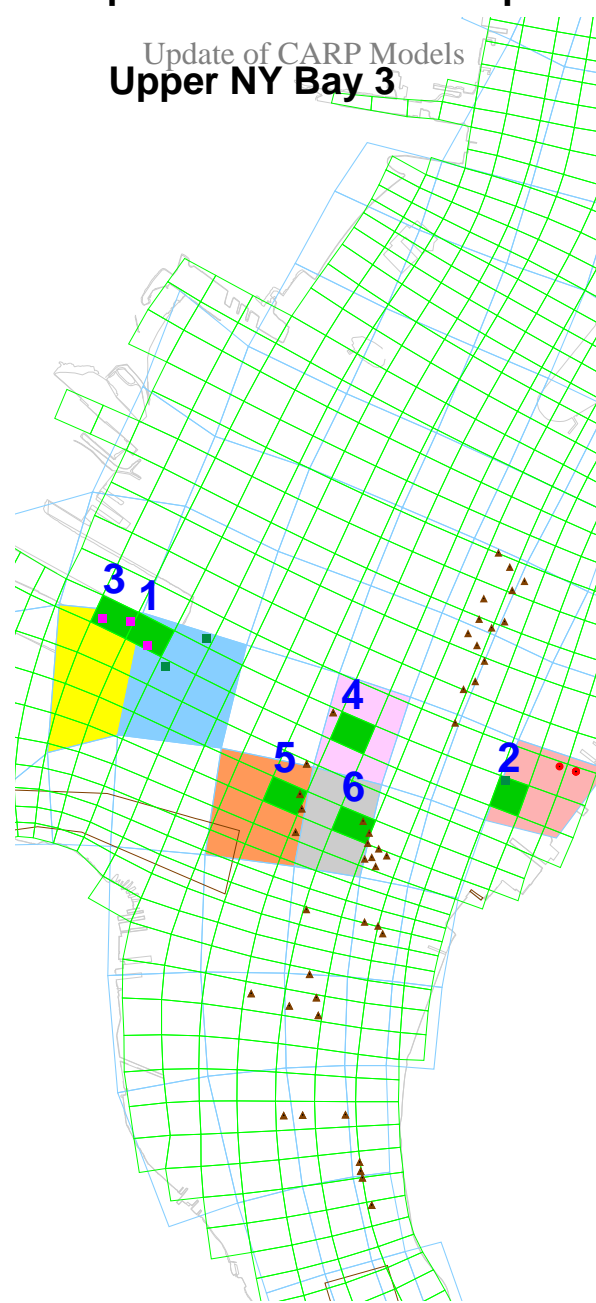
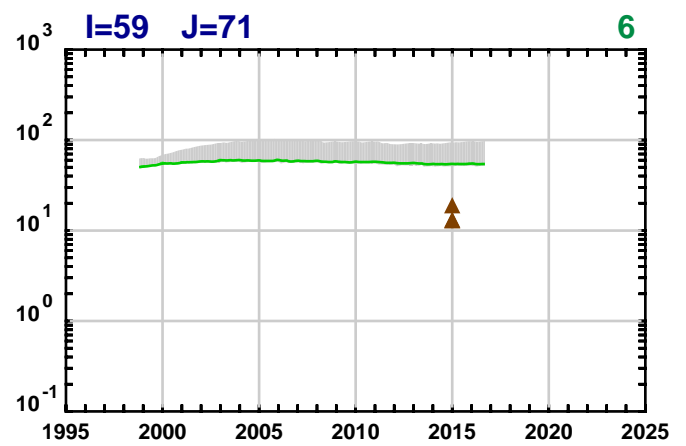
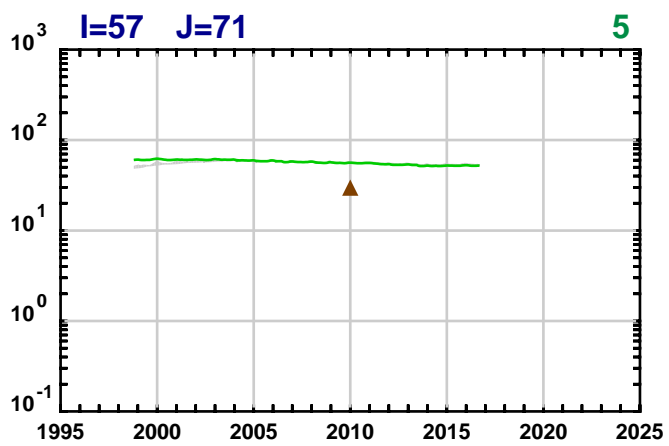
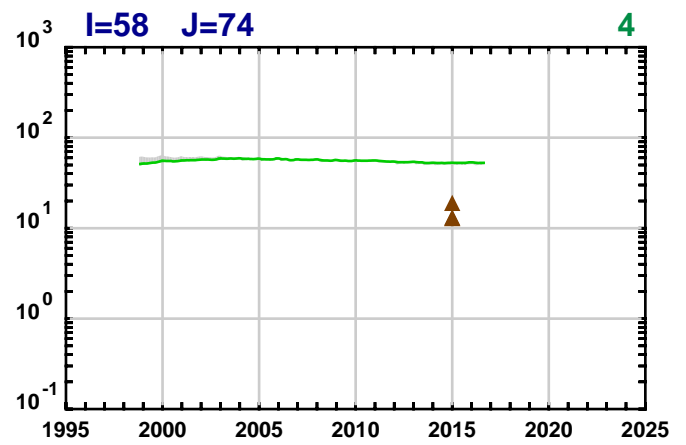
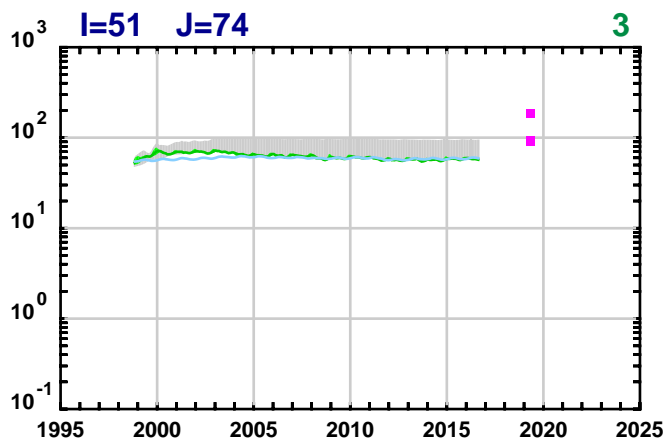
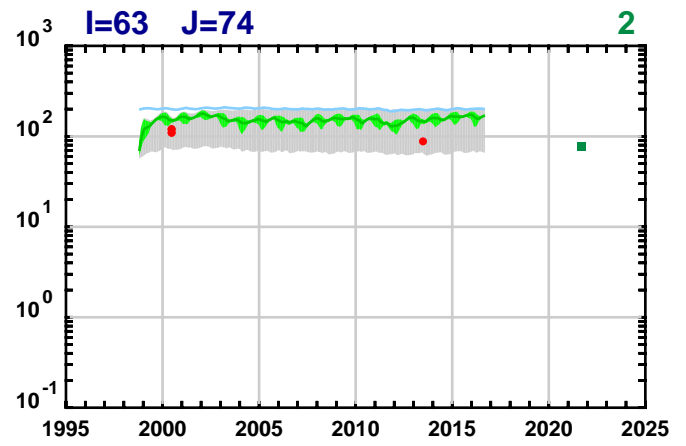
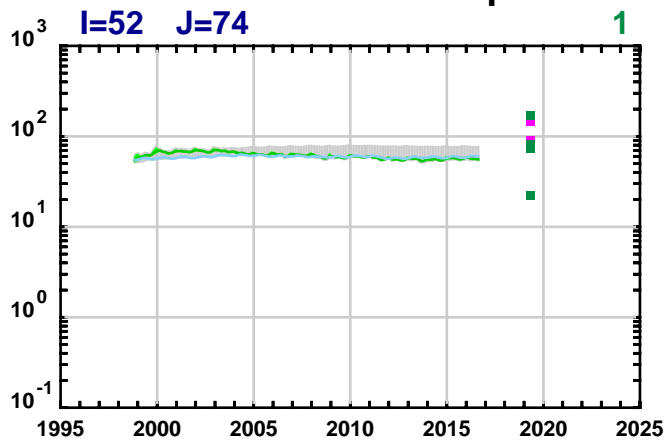
Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,5,6,7,8-Octachlorodibenzofuran ppt

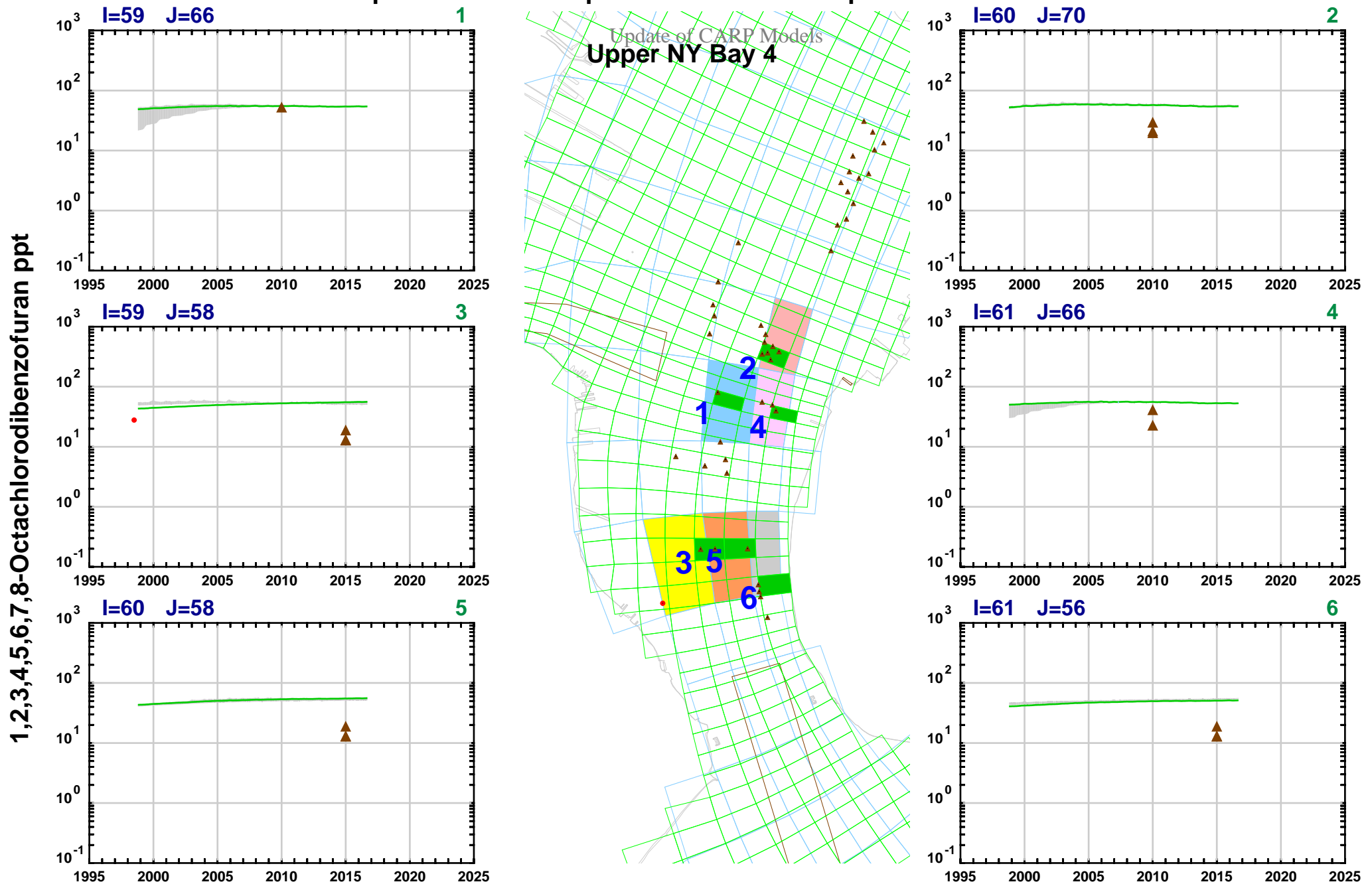


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



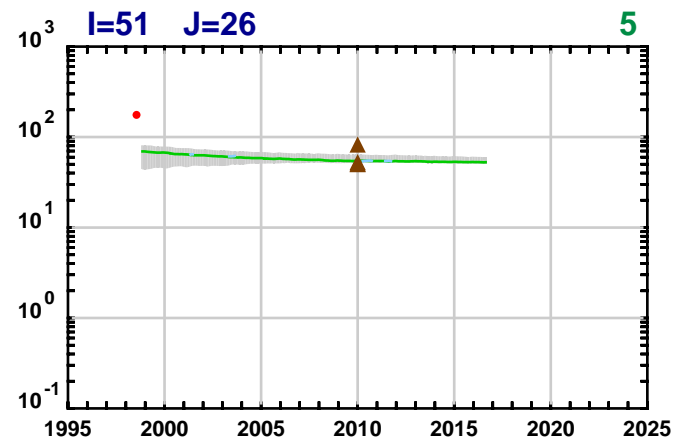
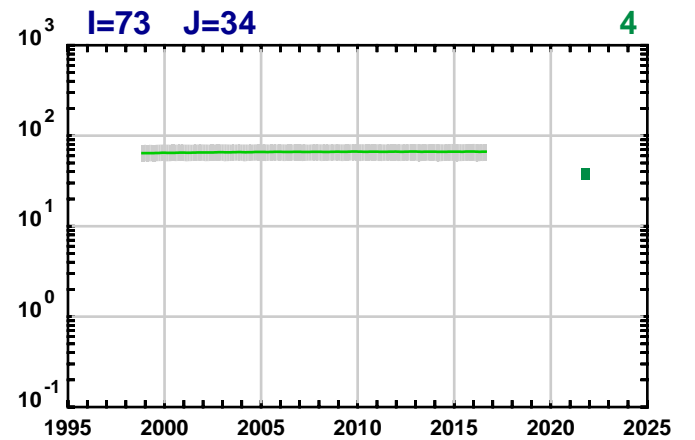
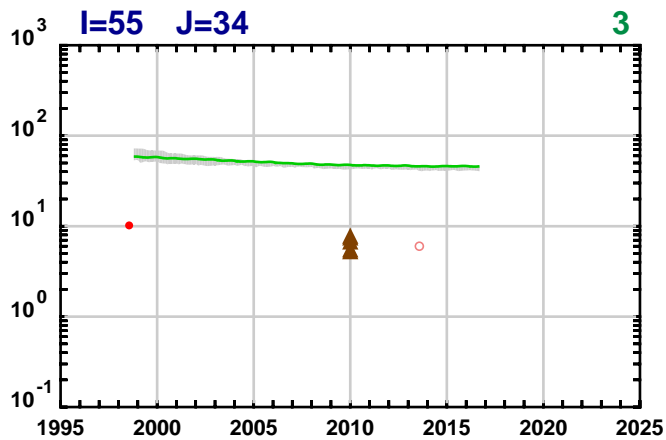
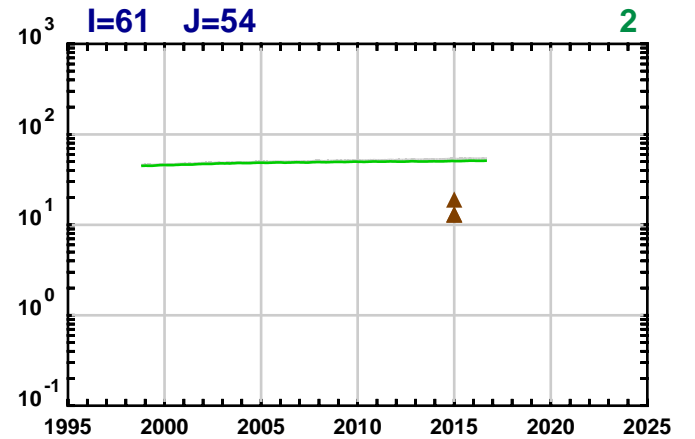
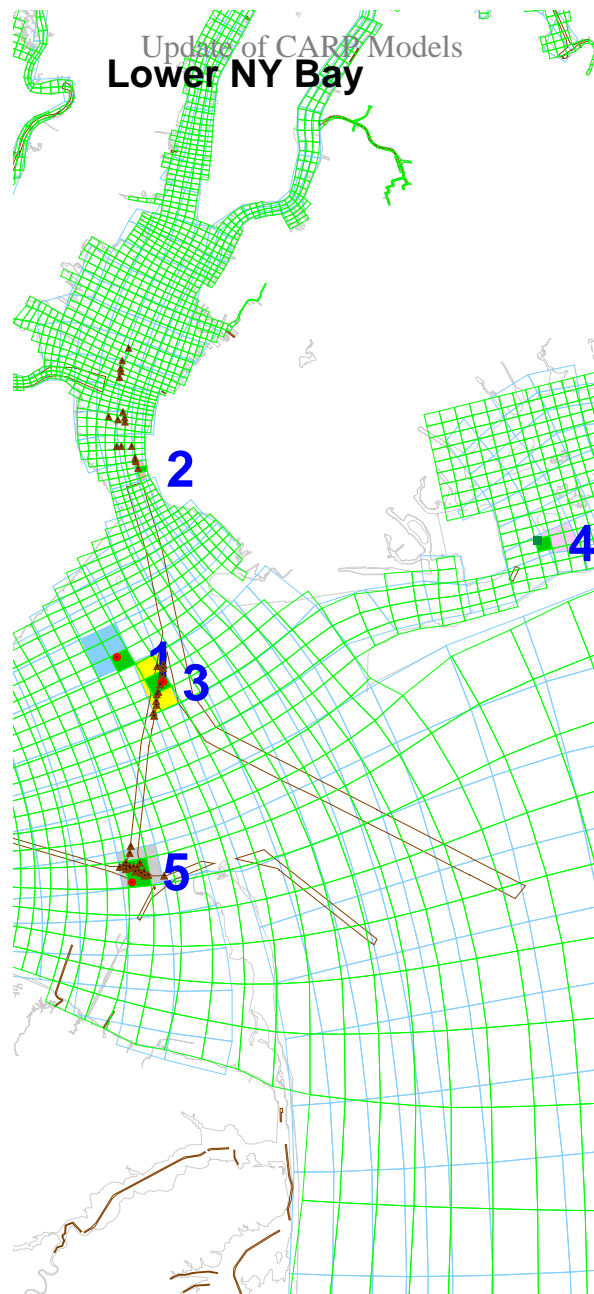
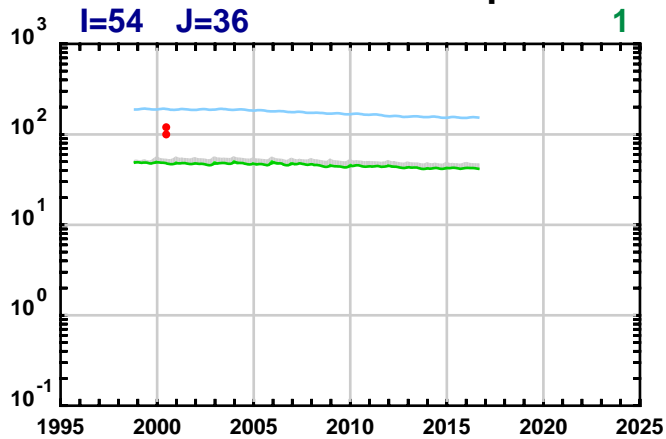
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

1,2,3,4,5,6,7,8-Octachlorodibenzofuran ppt



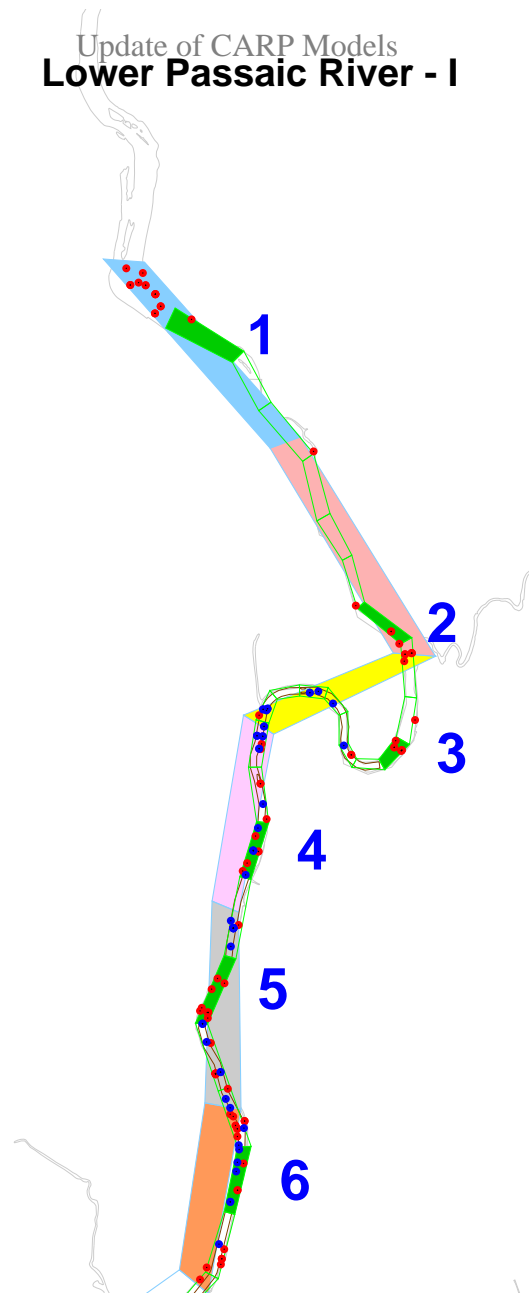
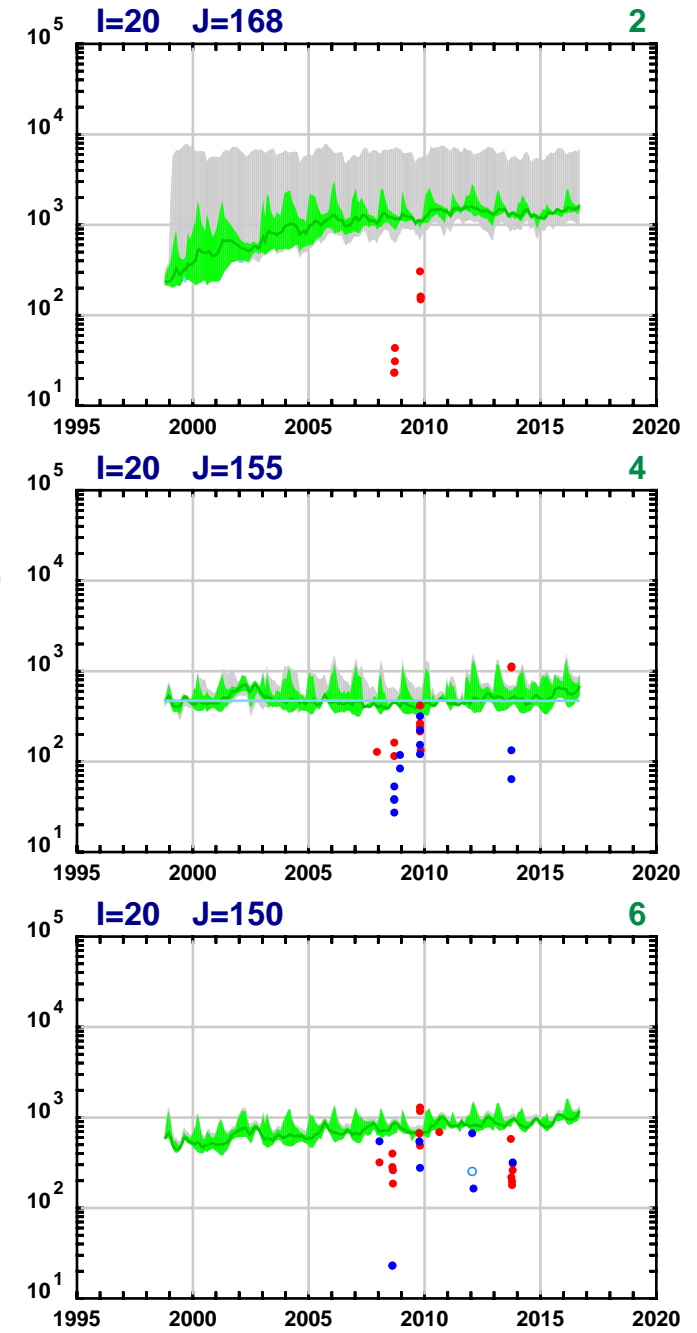
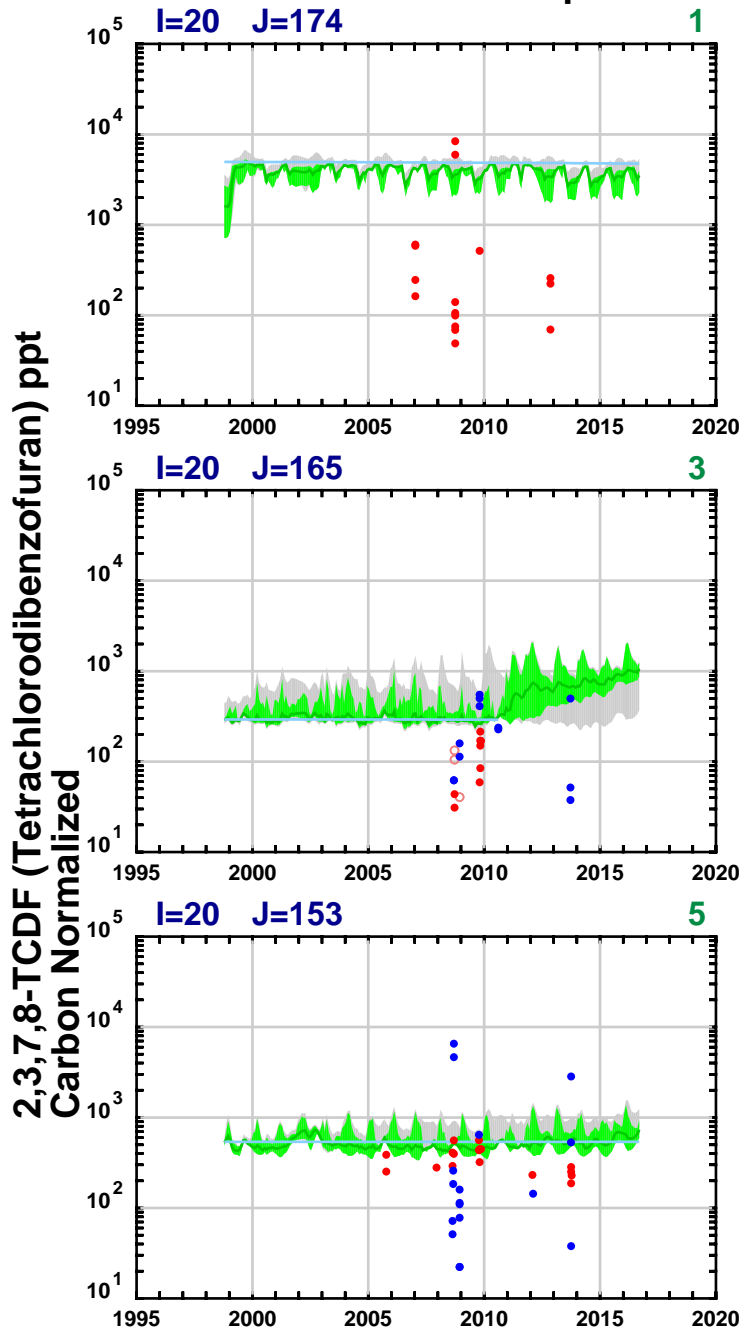
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Lower Passaic River - I

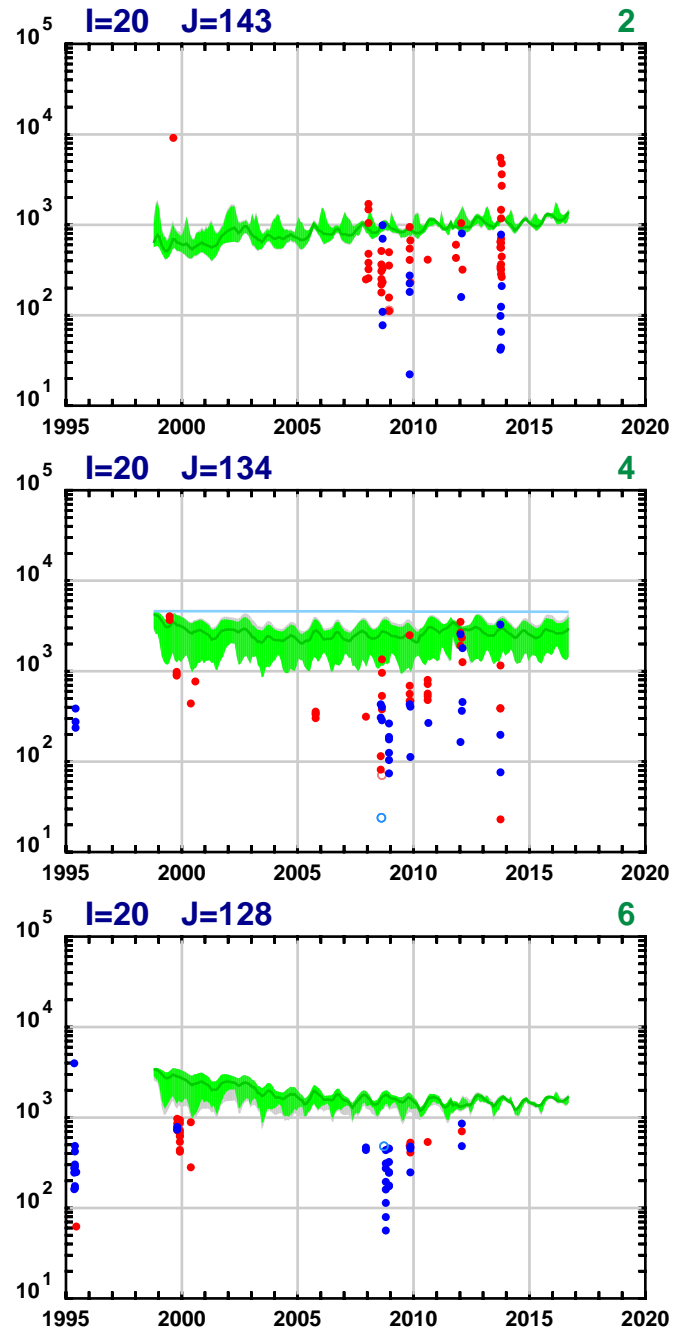
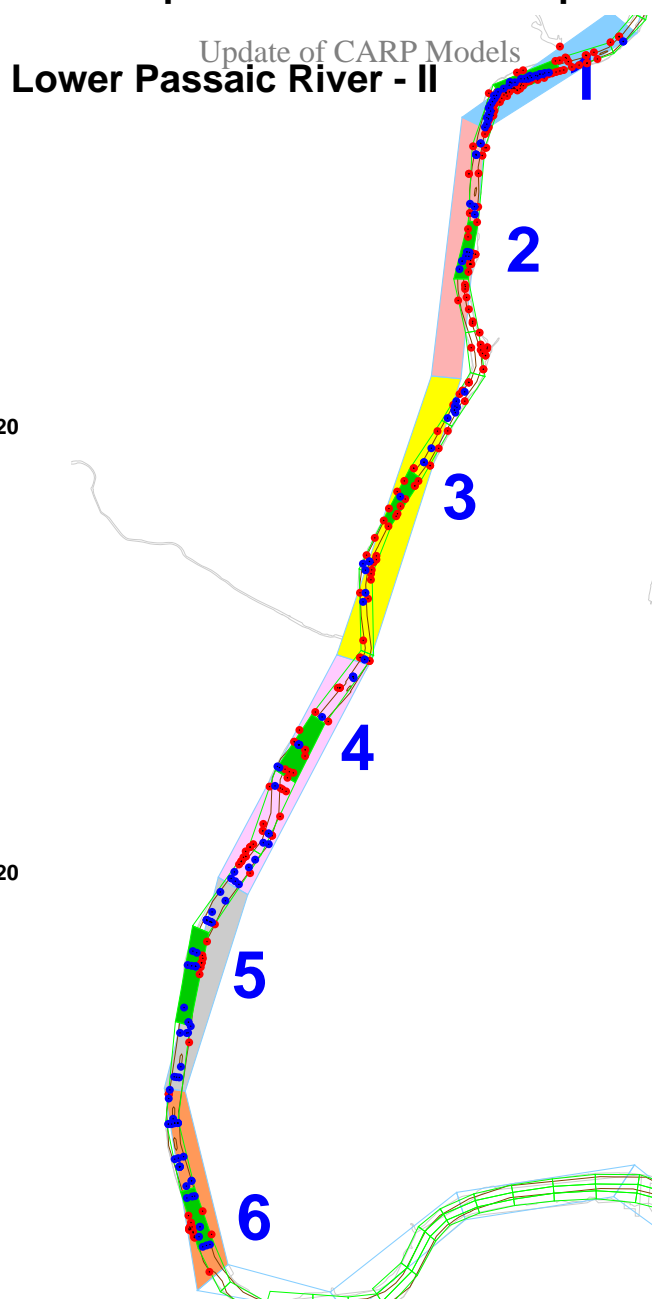
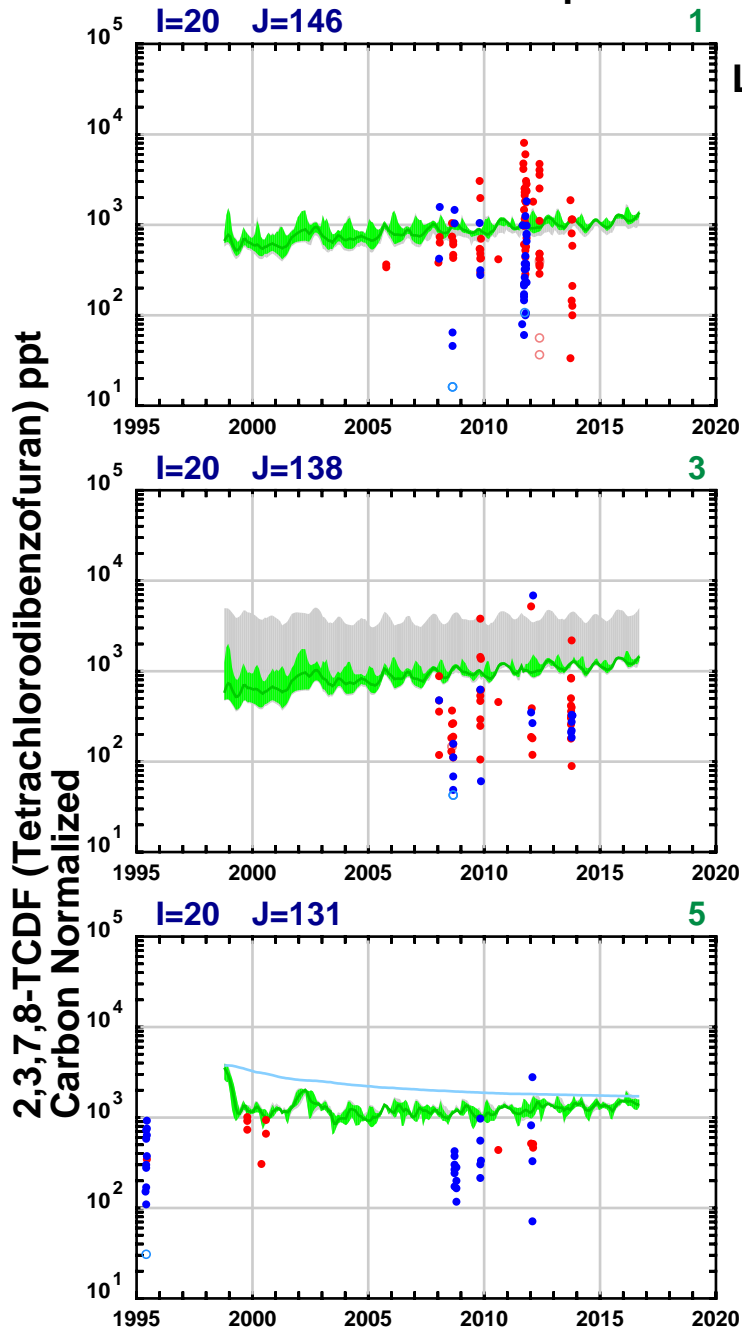


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

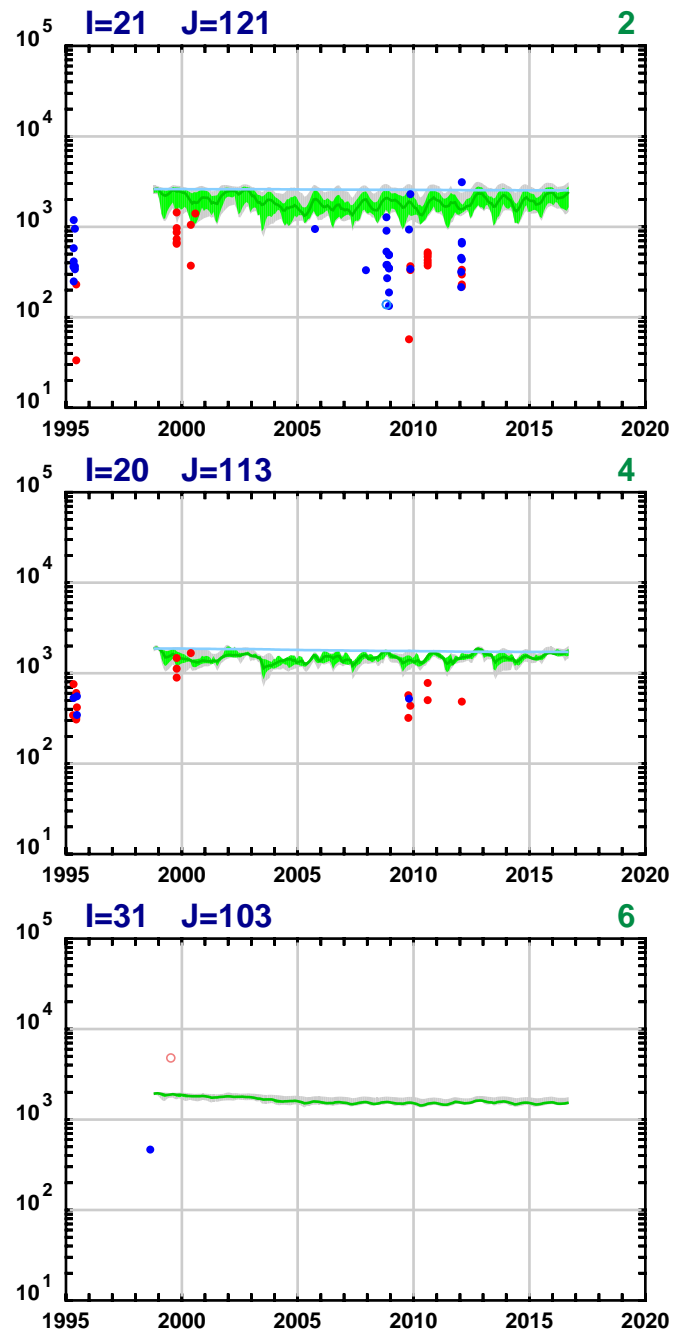
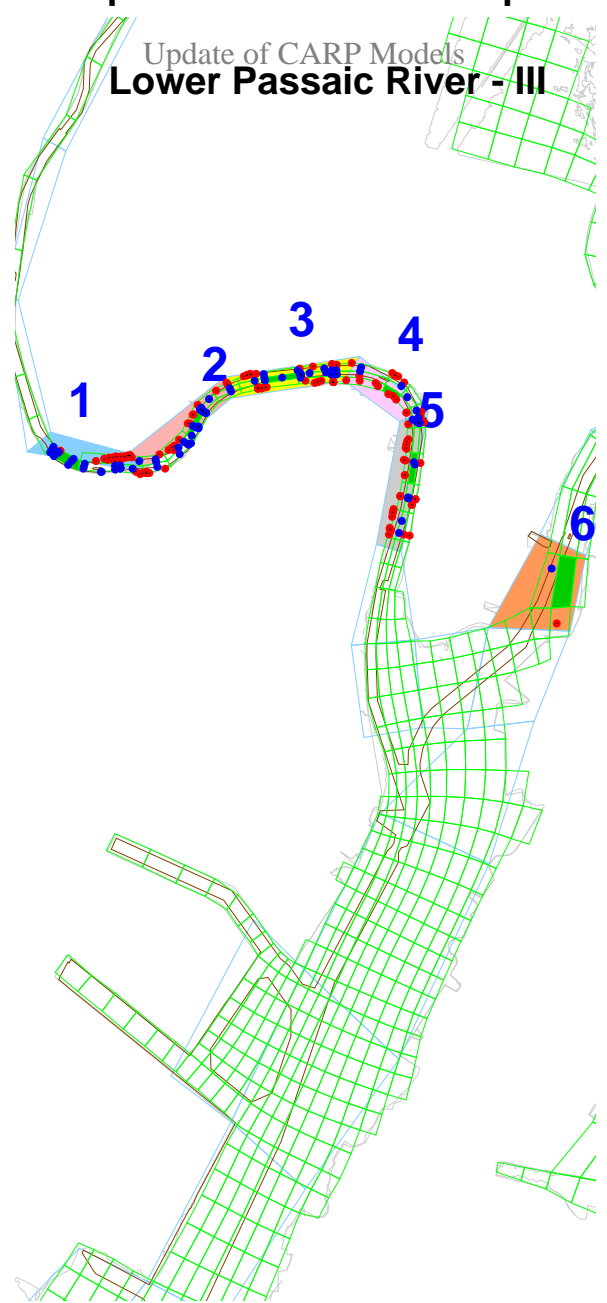
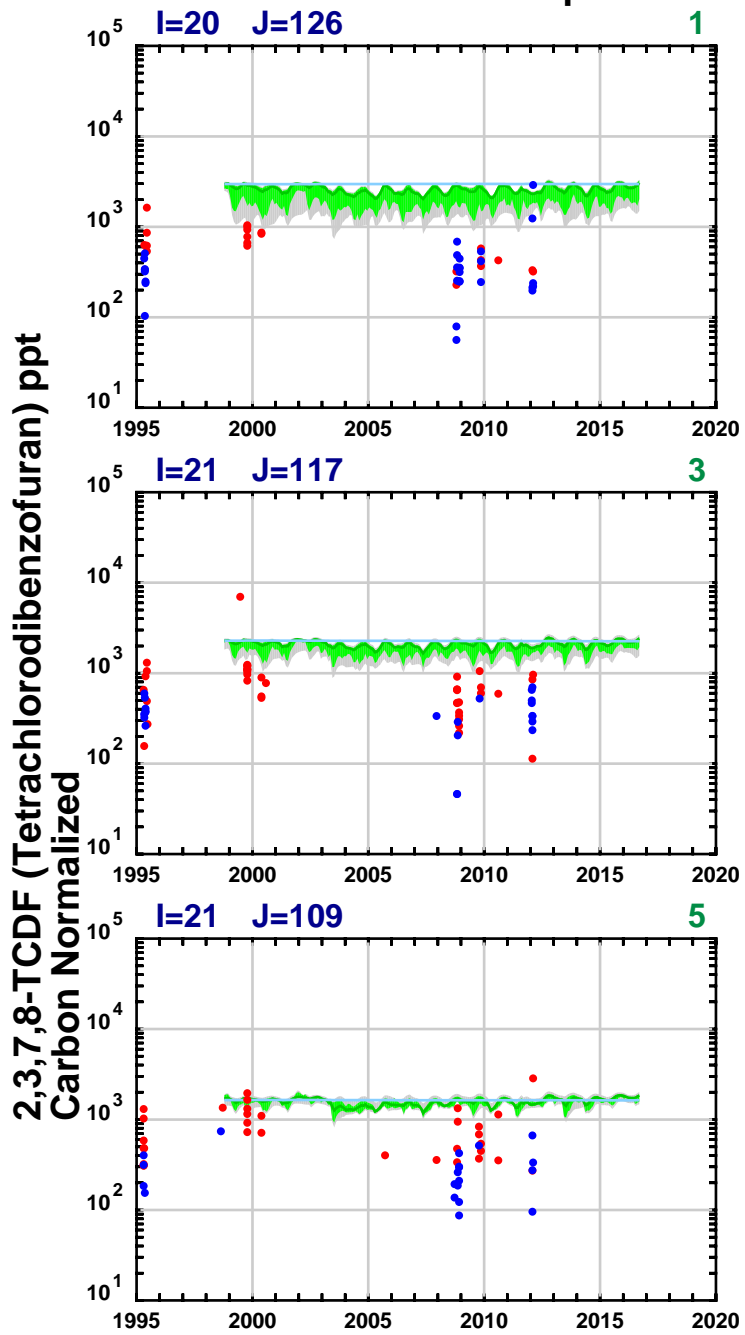


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



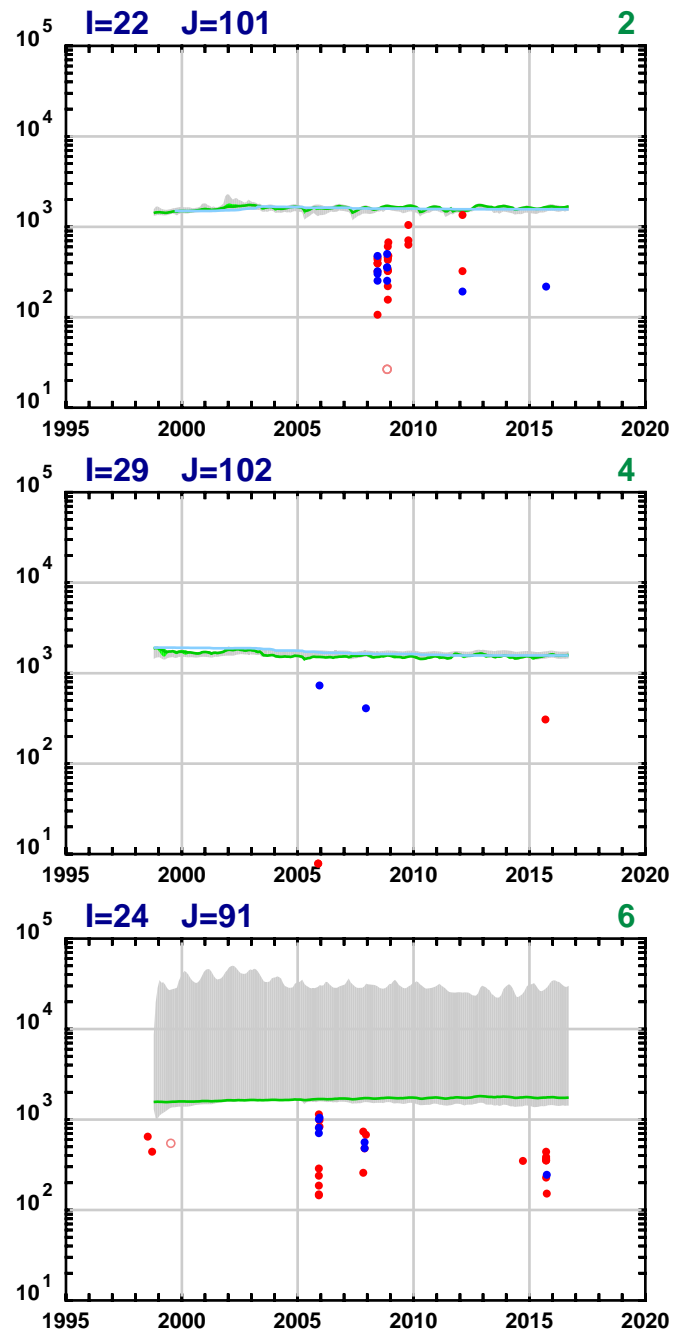
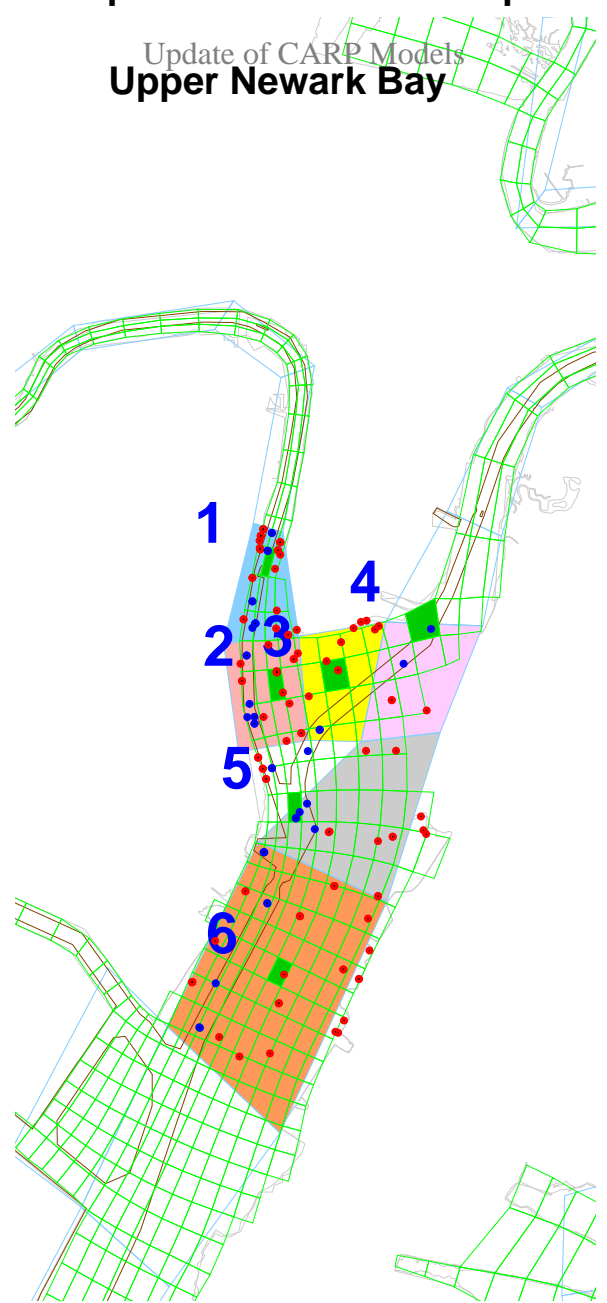
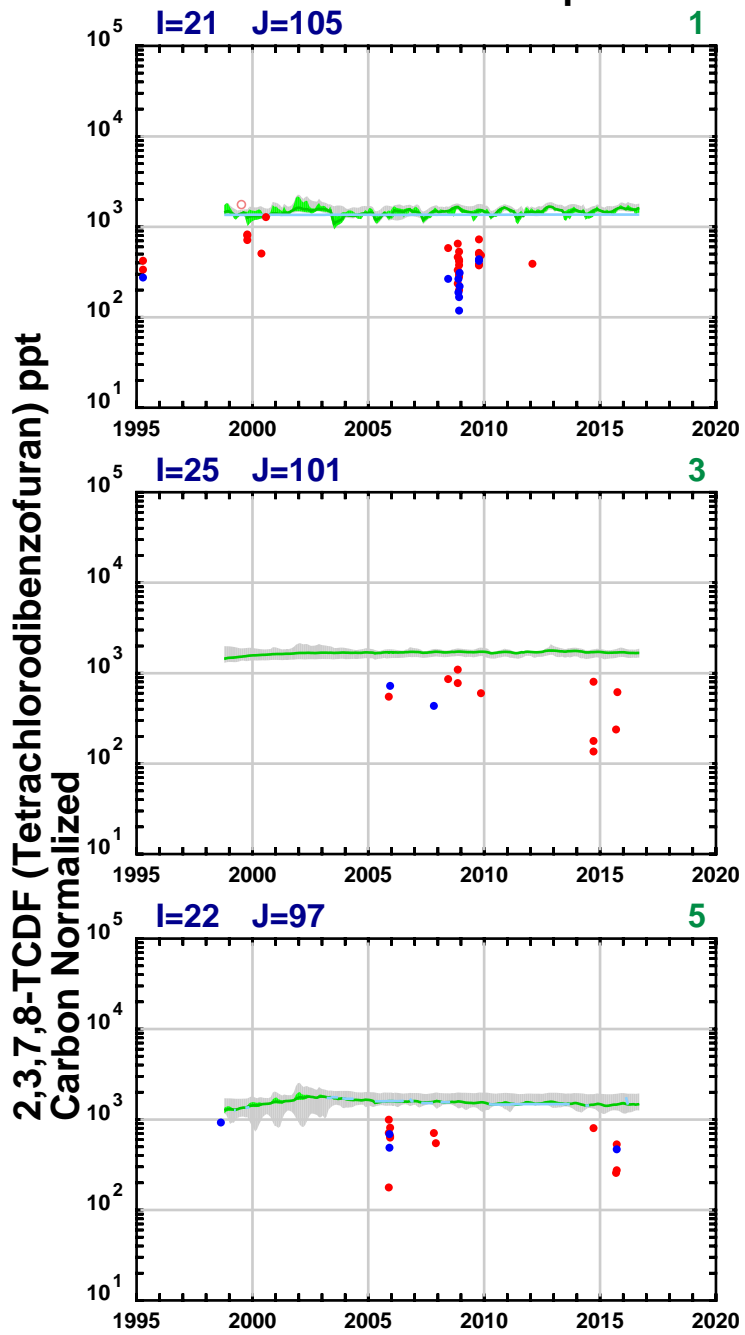
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



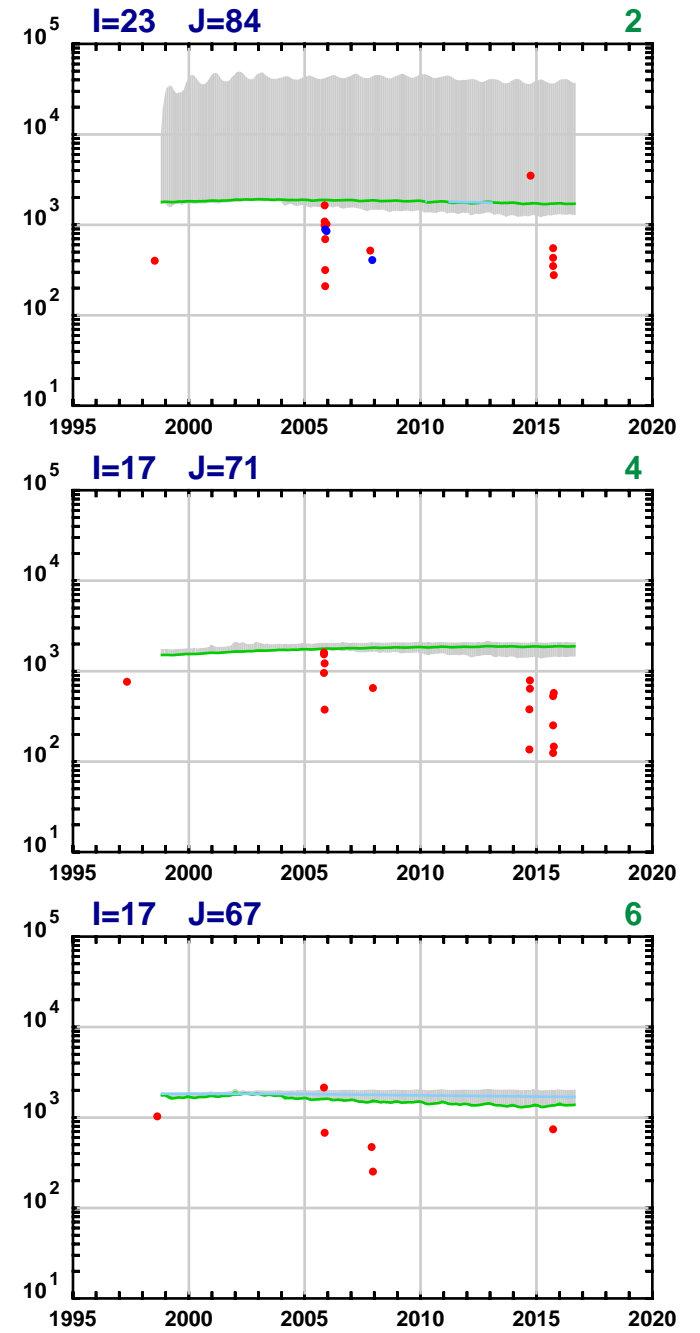
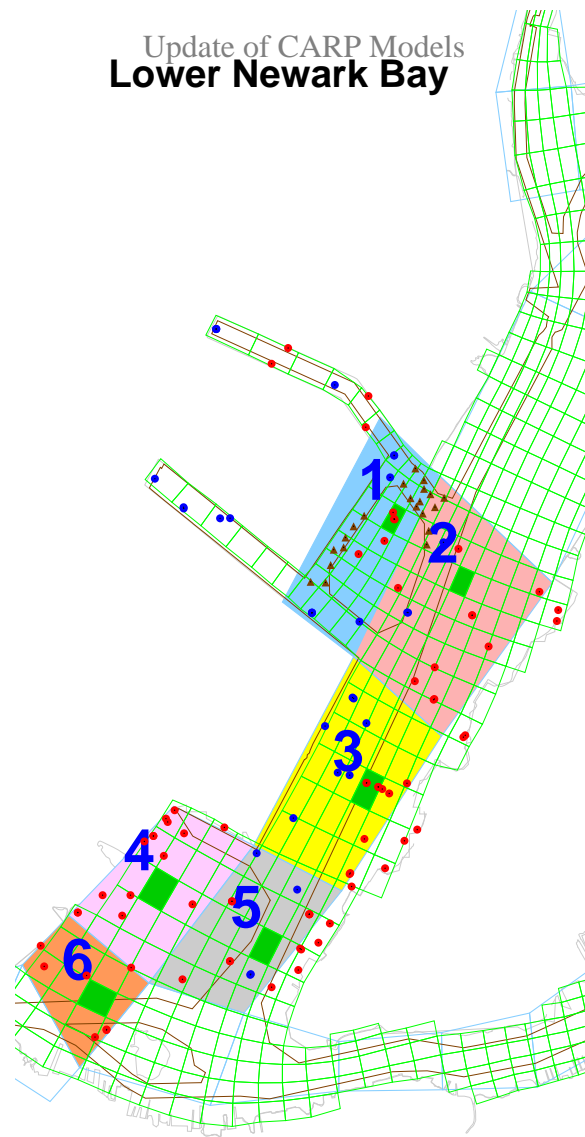
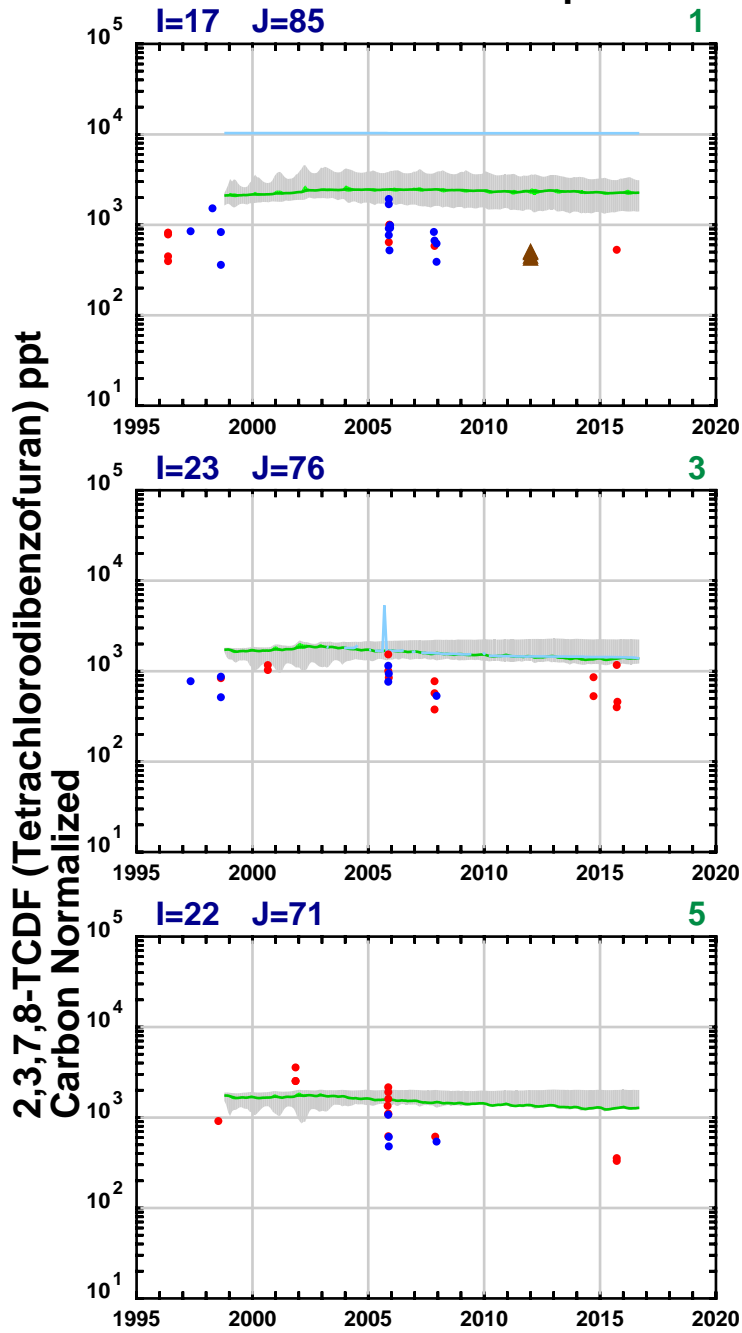
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



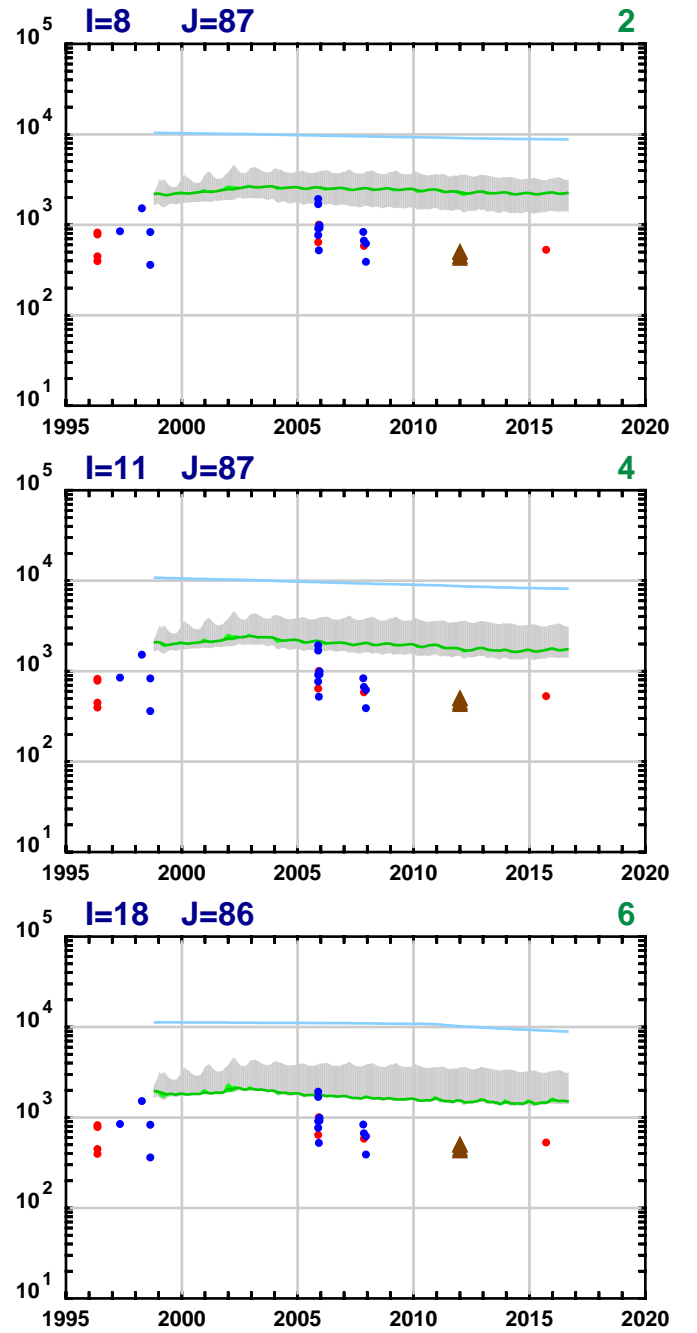
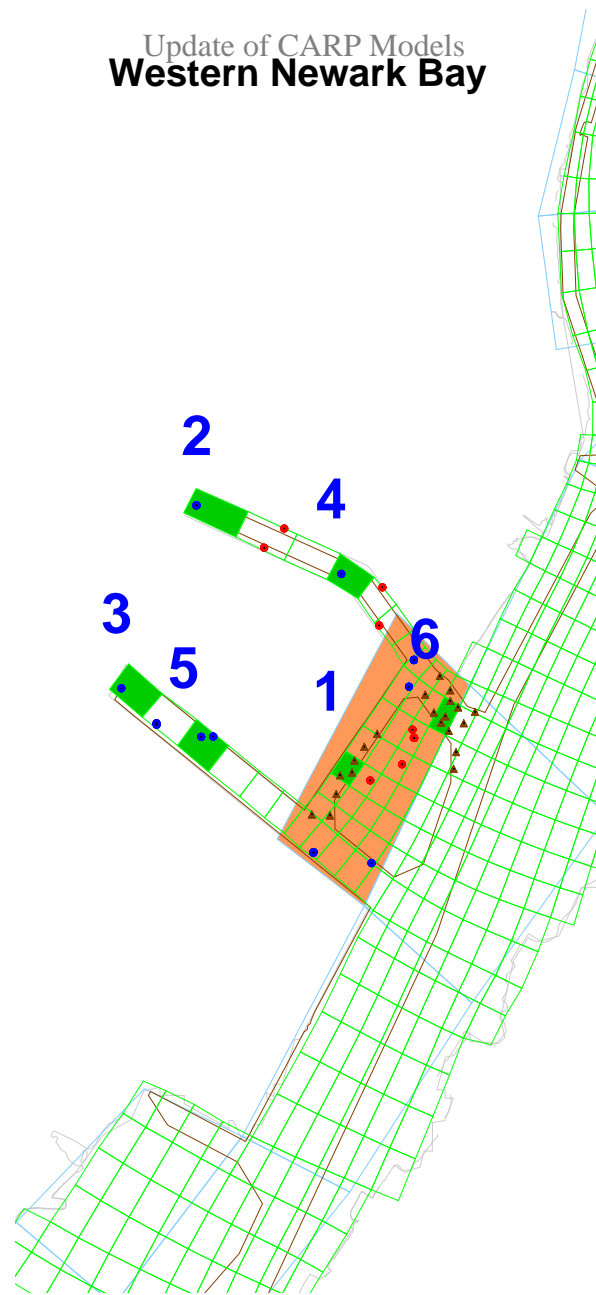
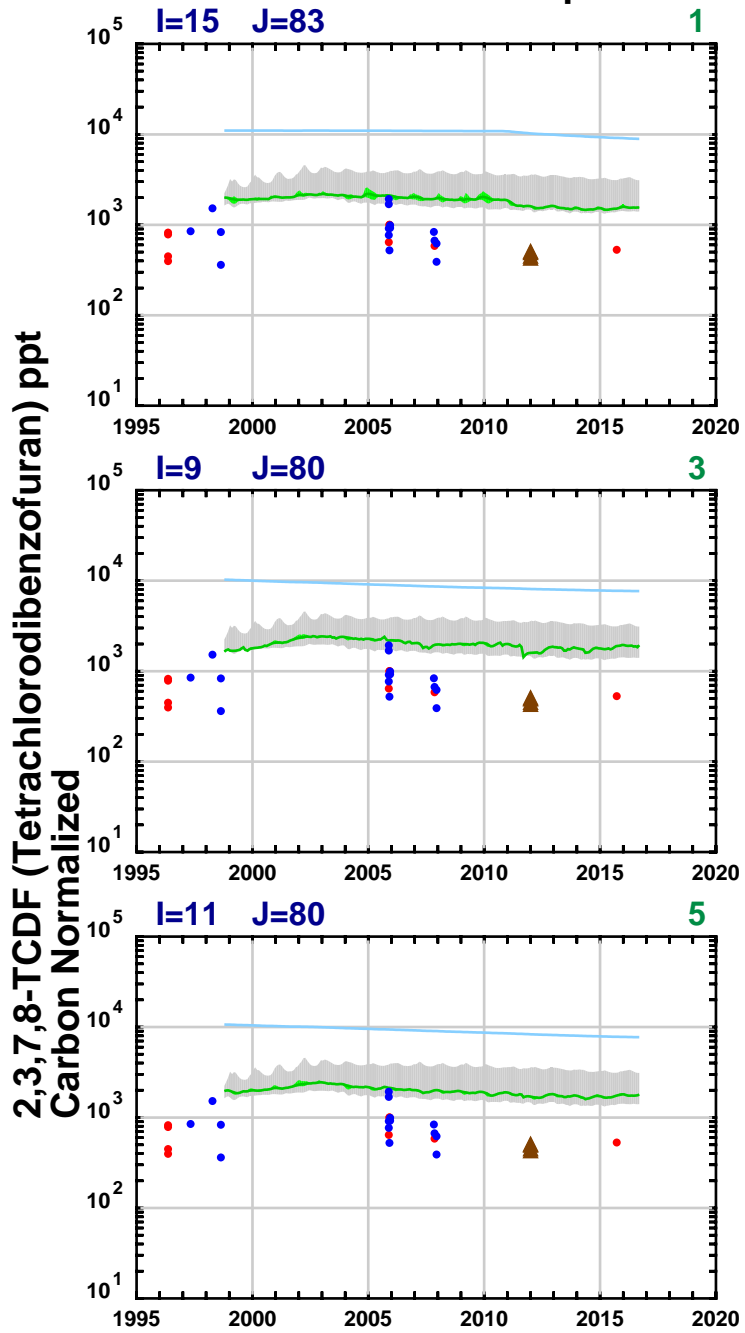
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay



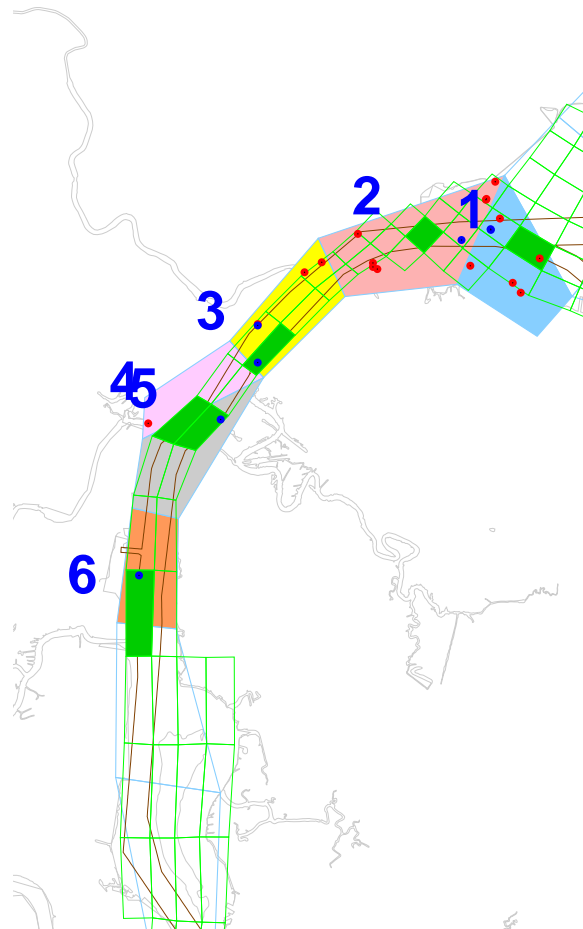
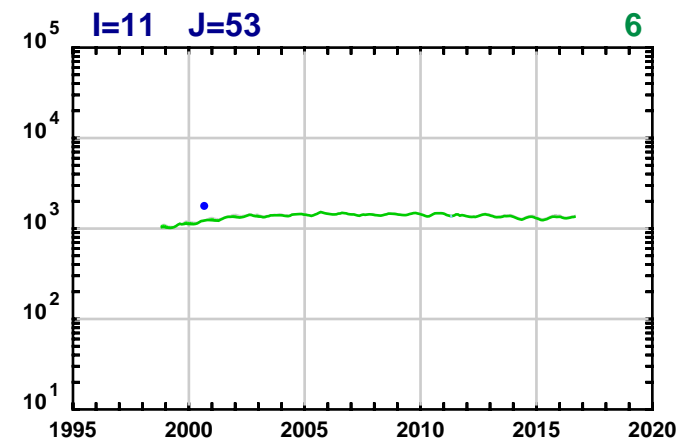
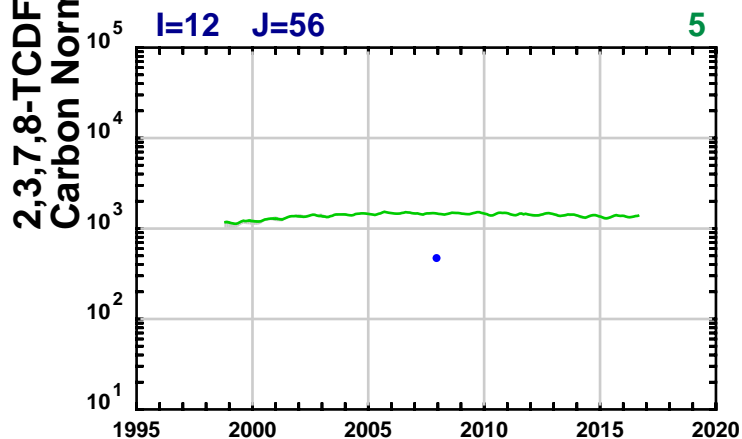
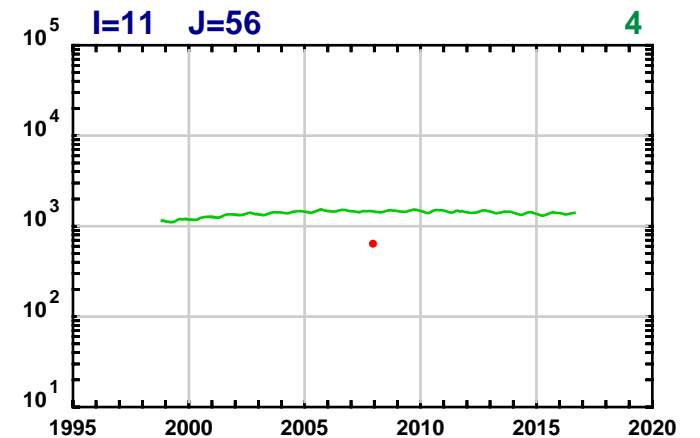
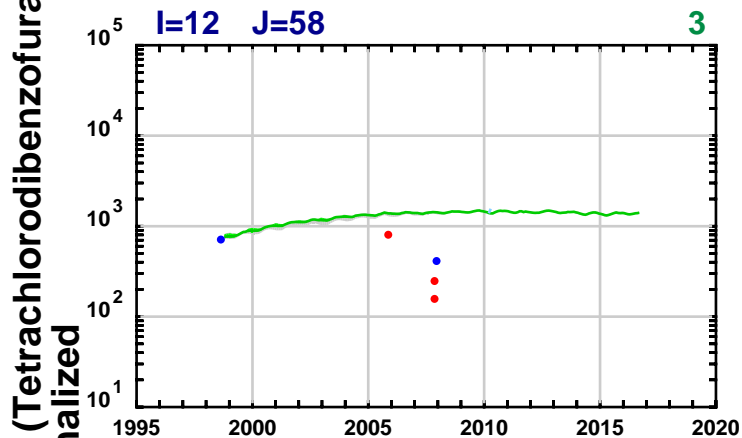
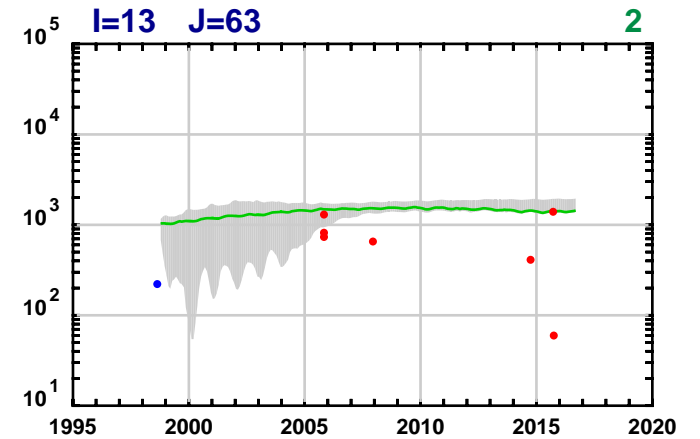
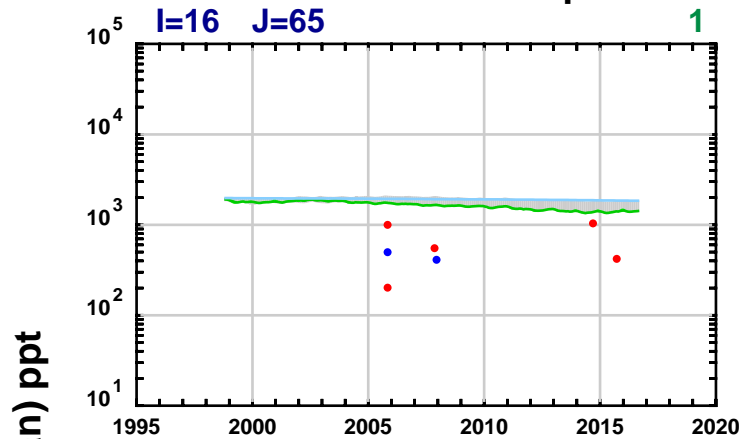
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

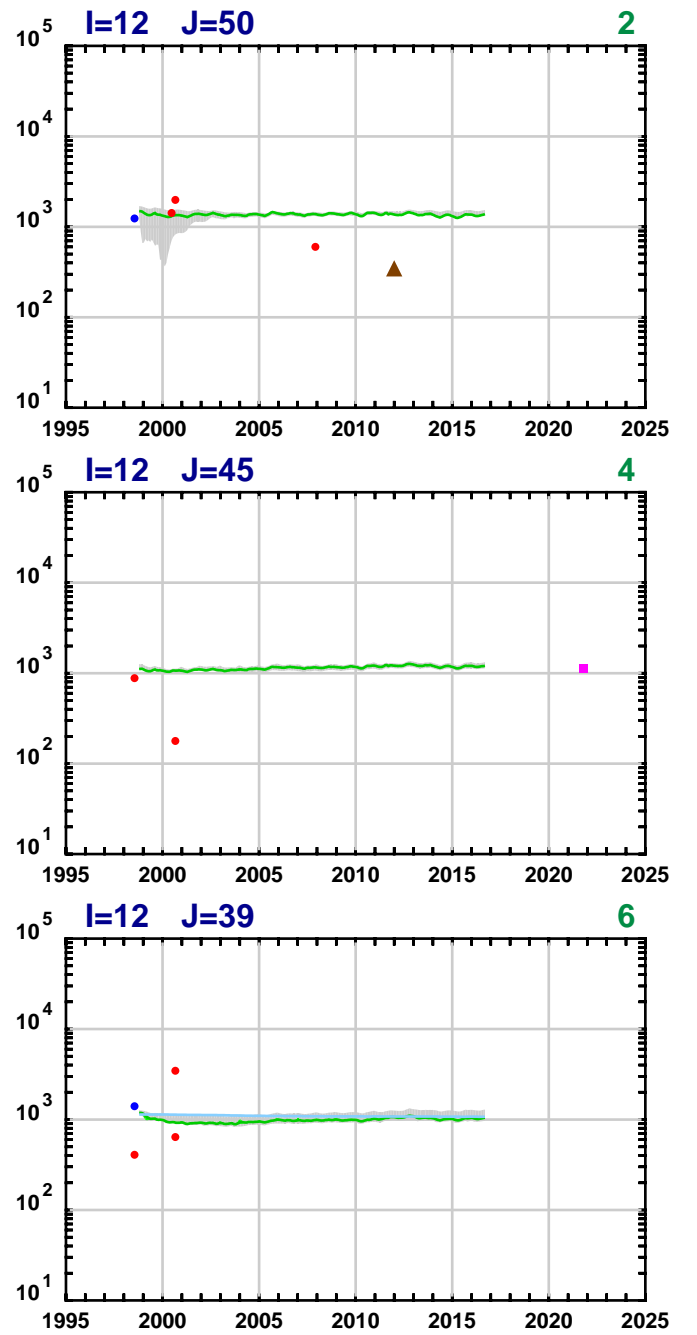
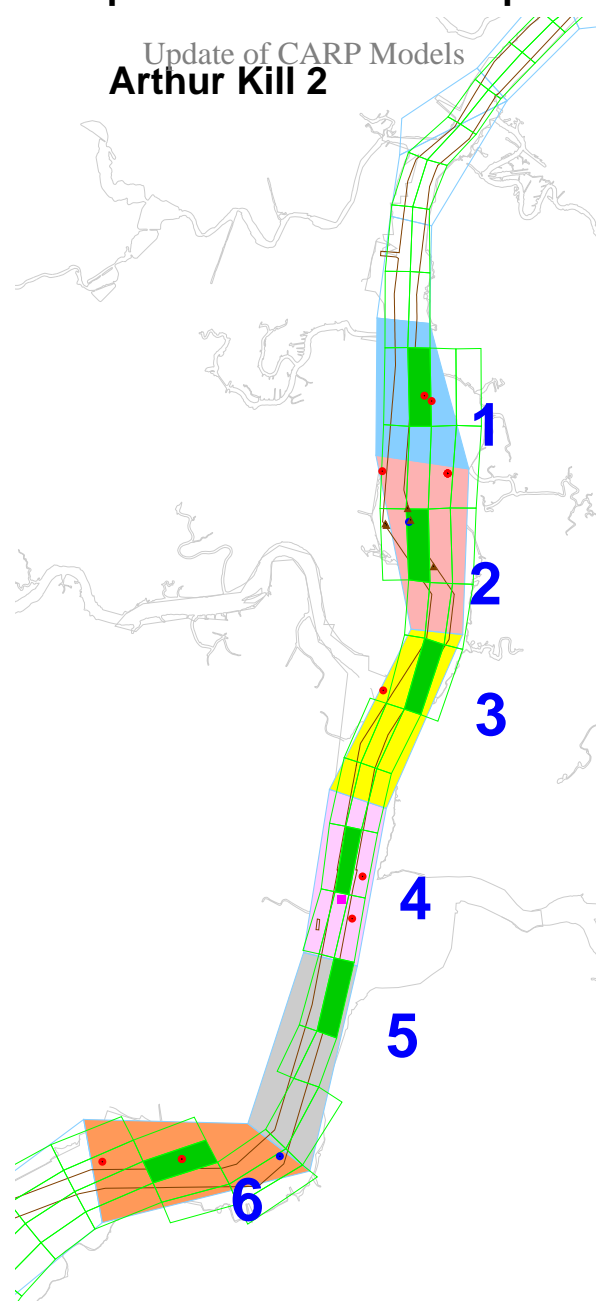
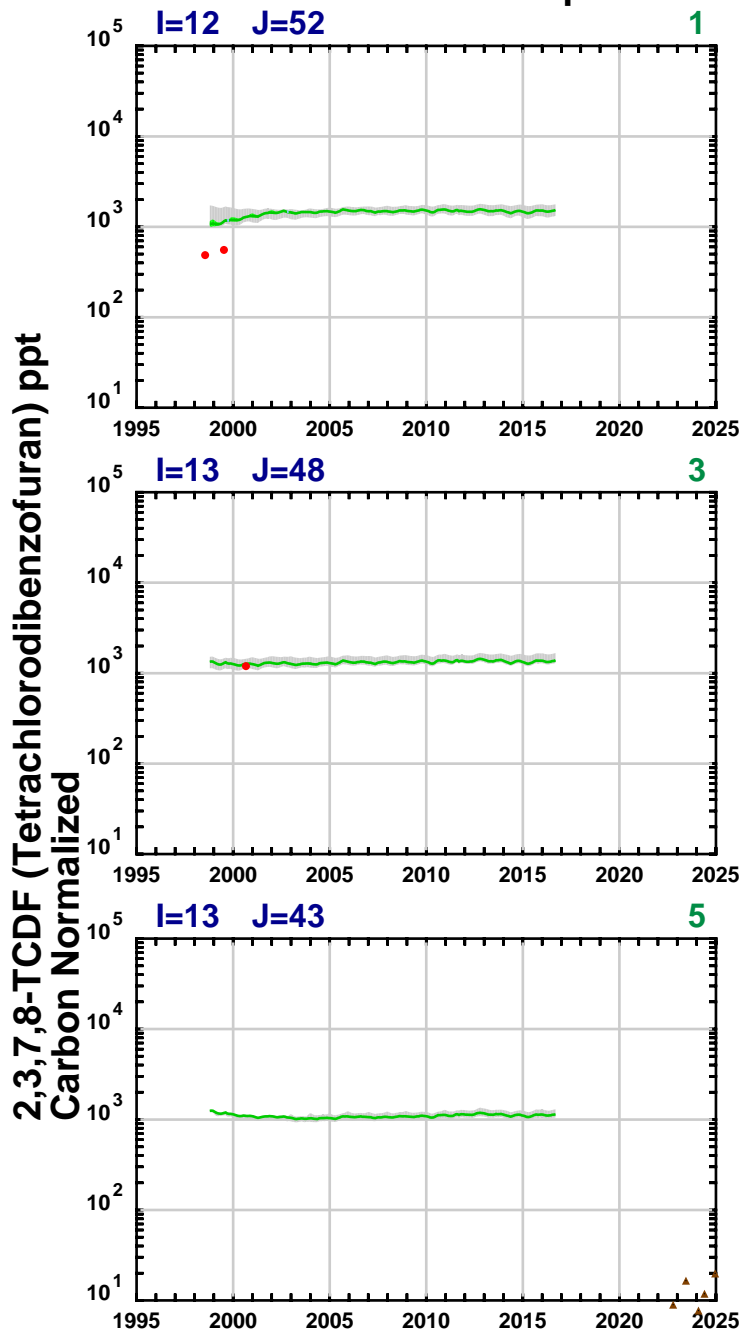


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

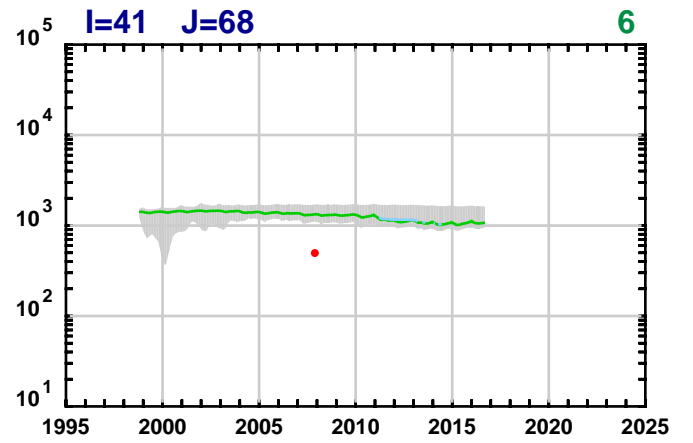
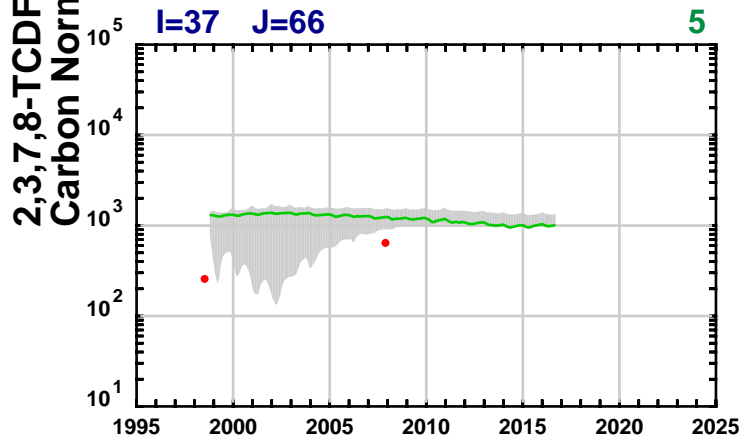
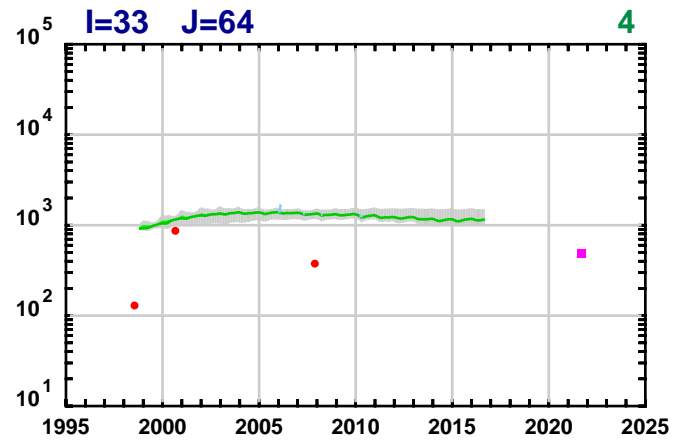
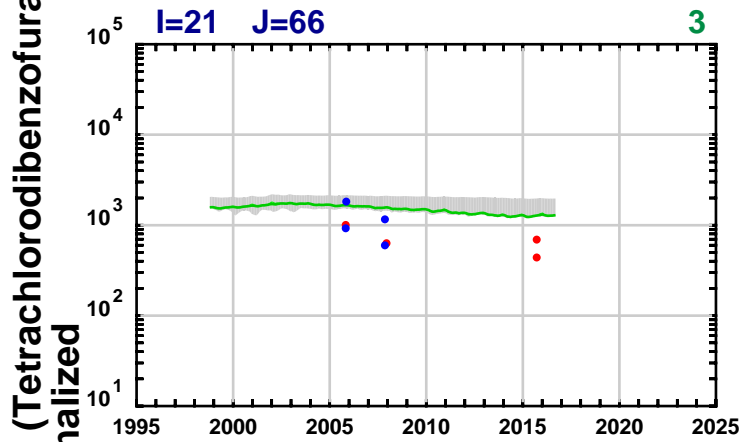
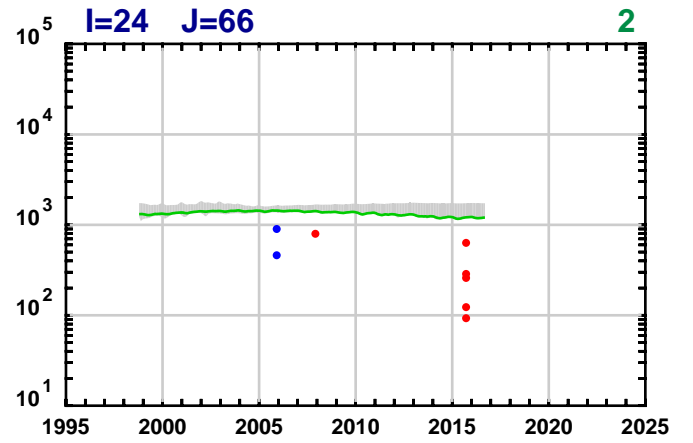
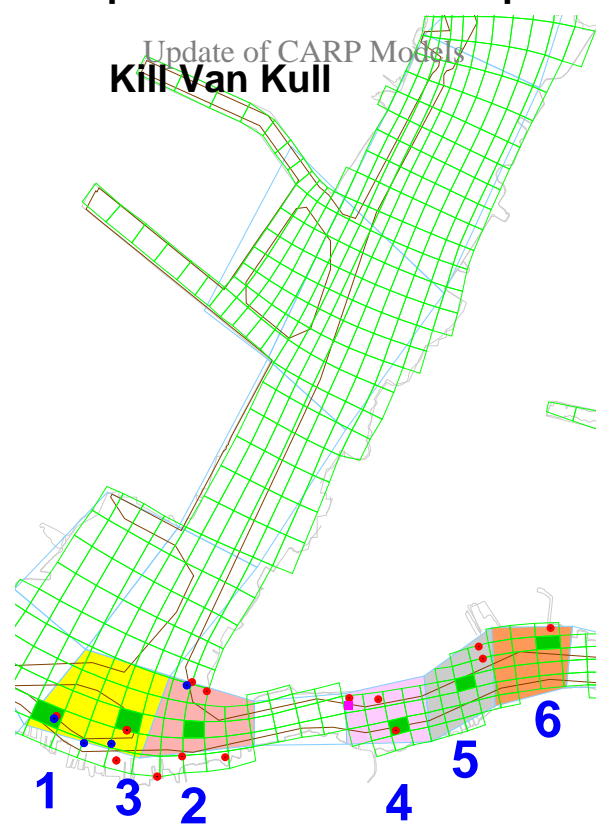
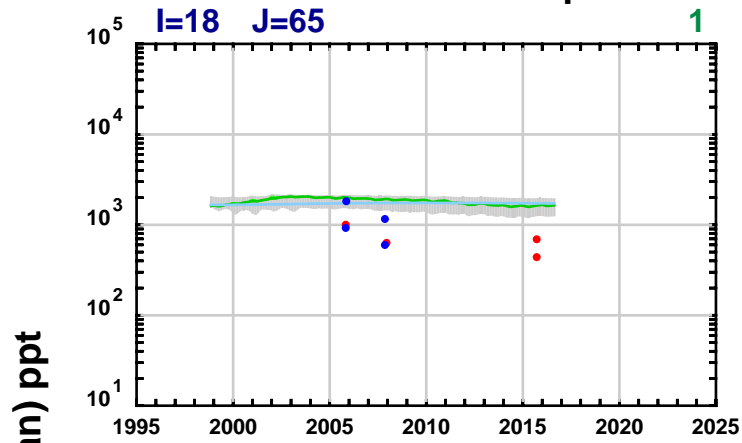


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

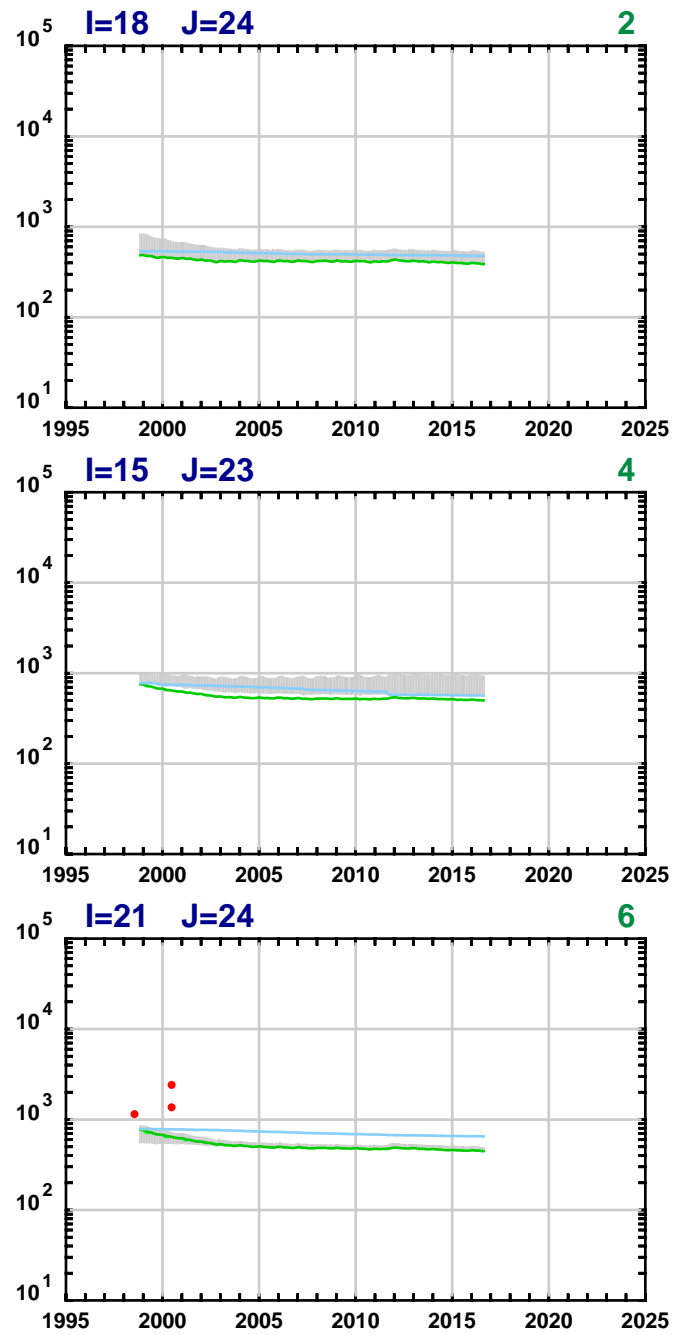
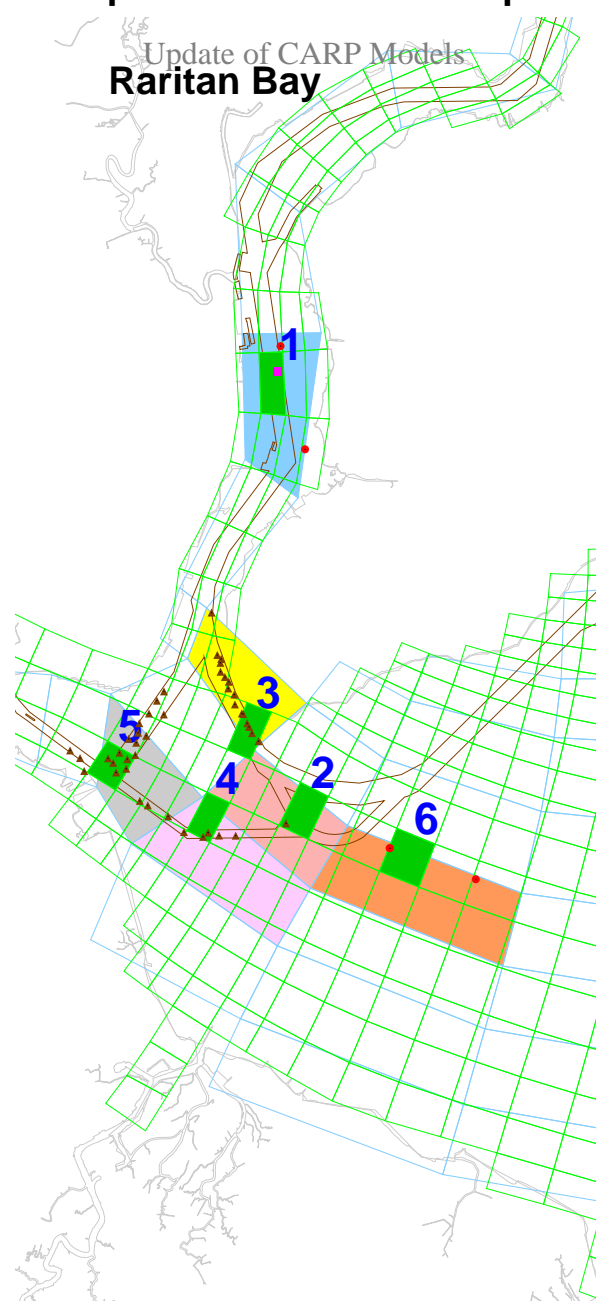
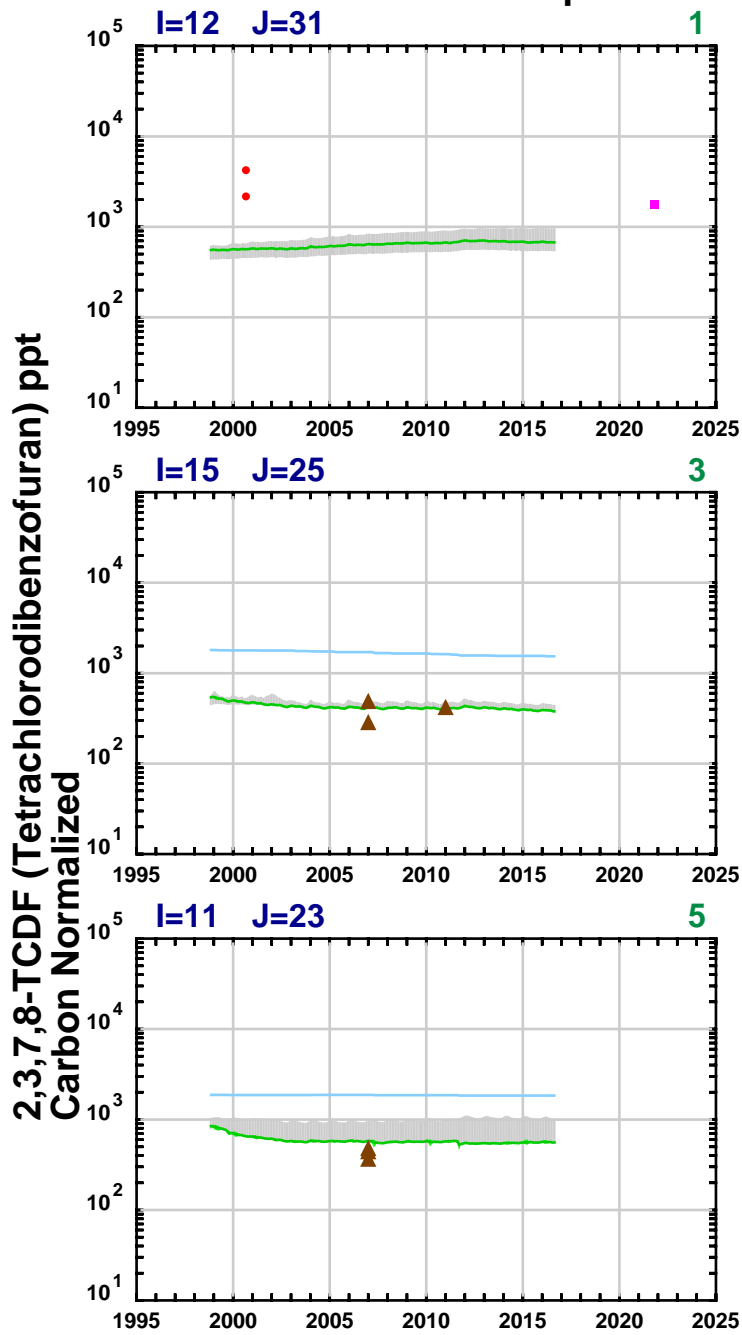


**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

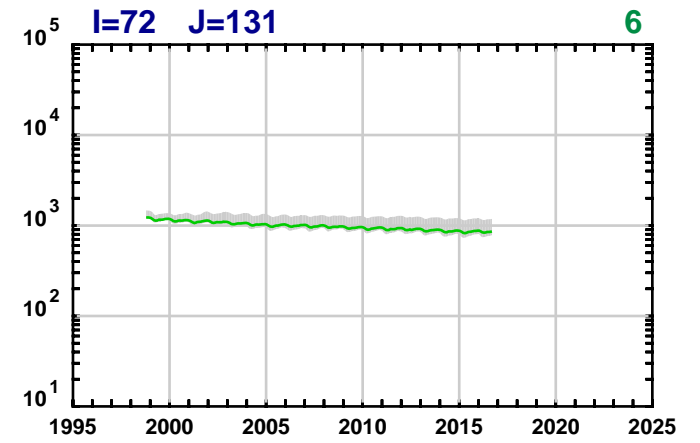
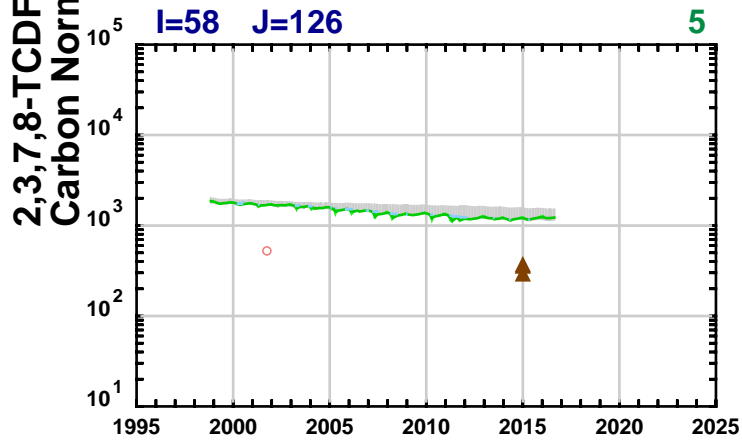
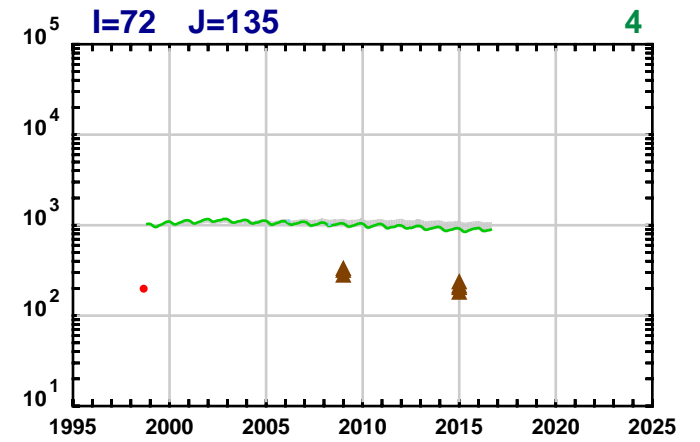
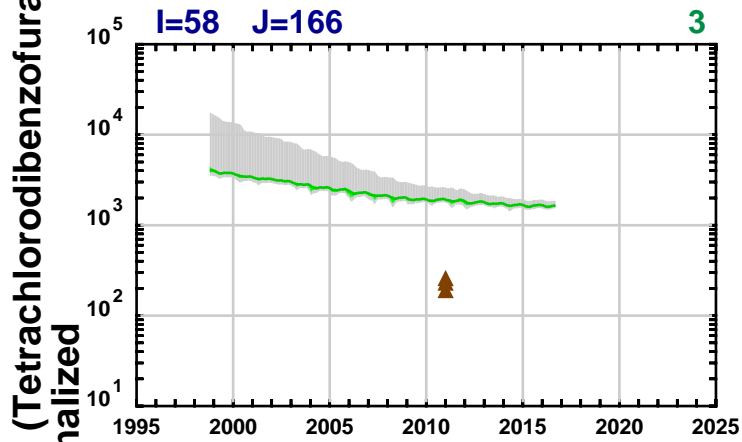
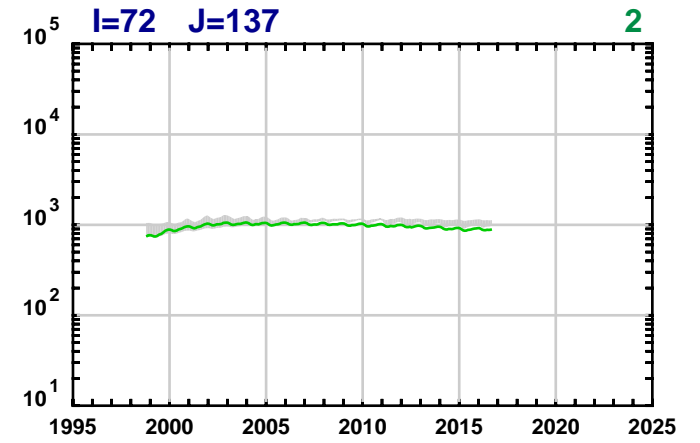
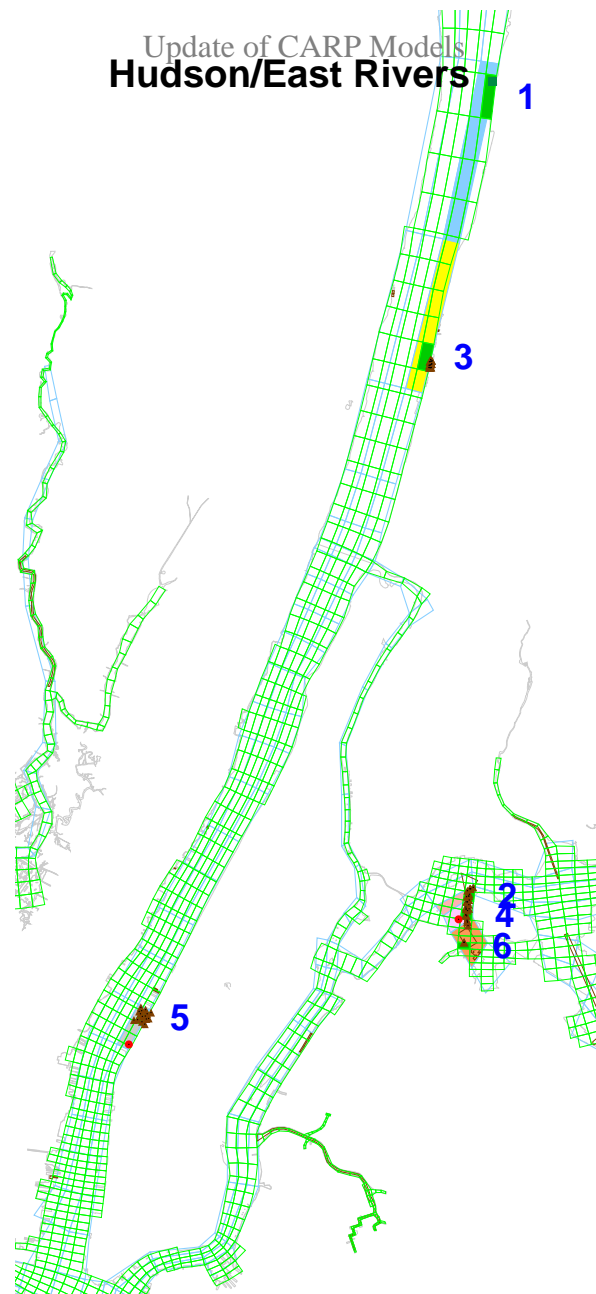
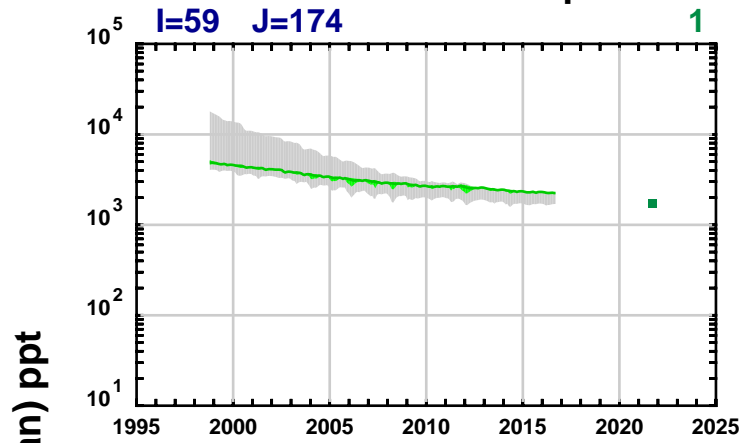


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



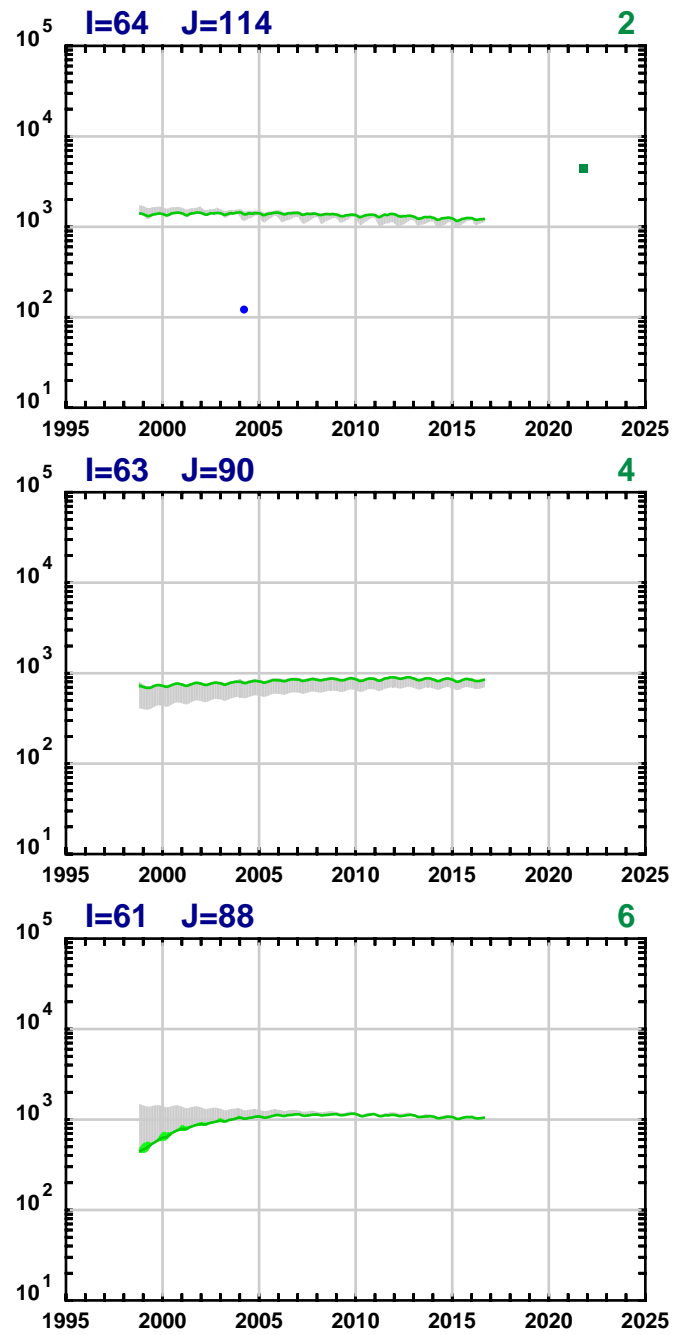
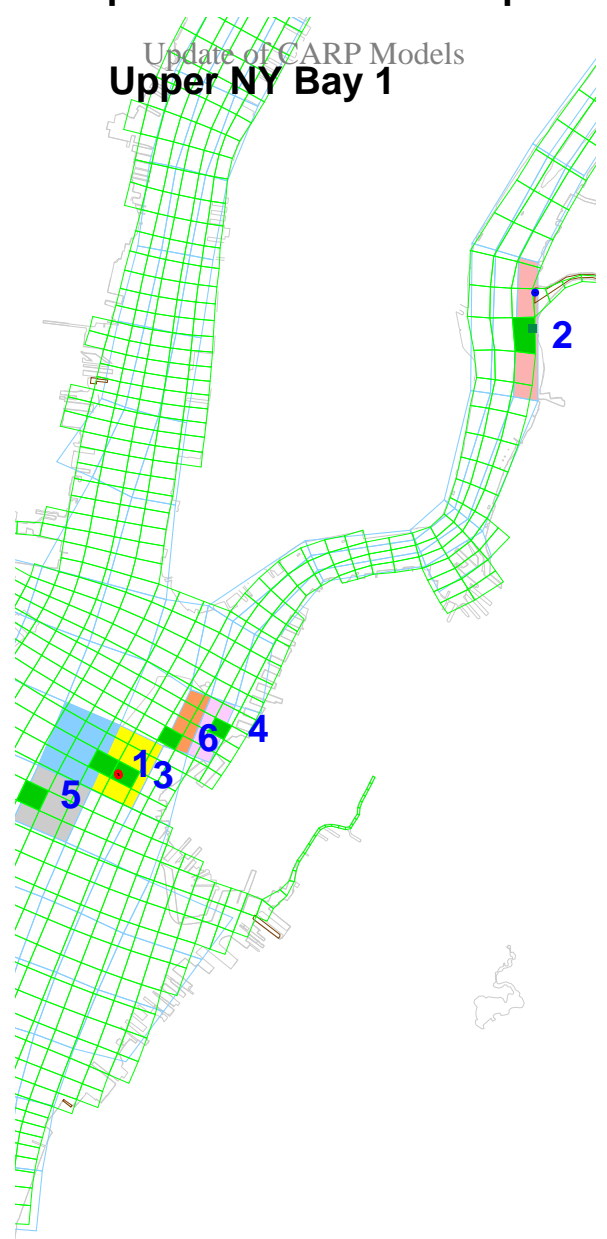
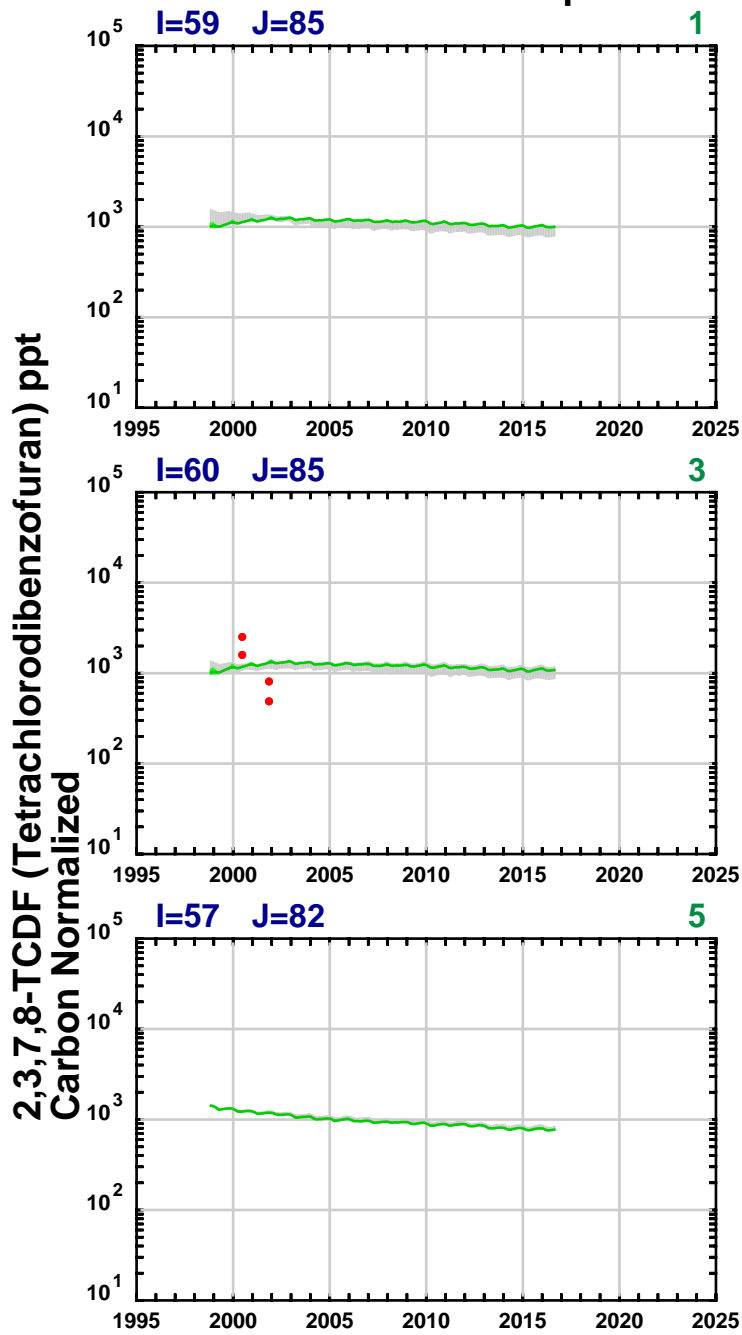
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

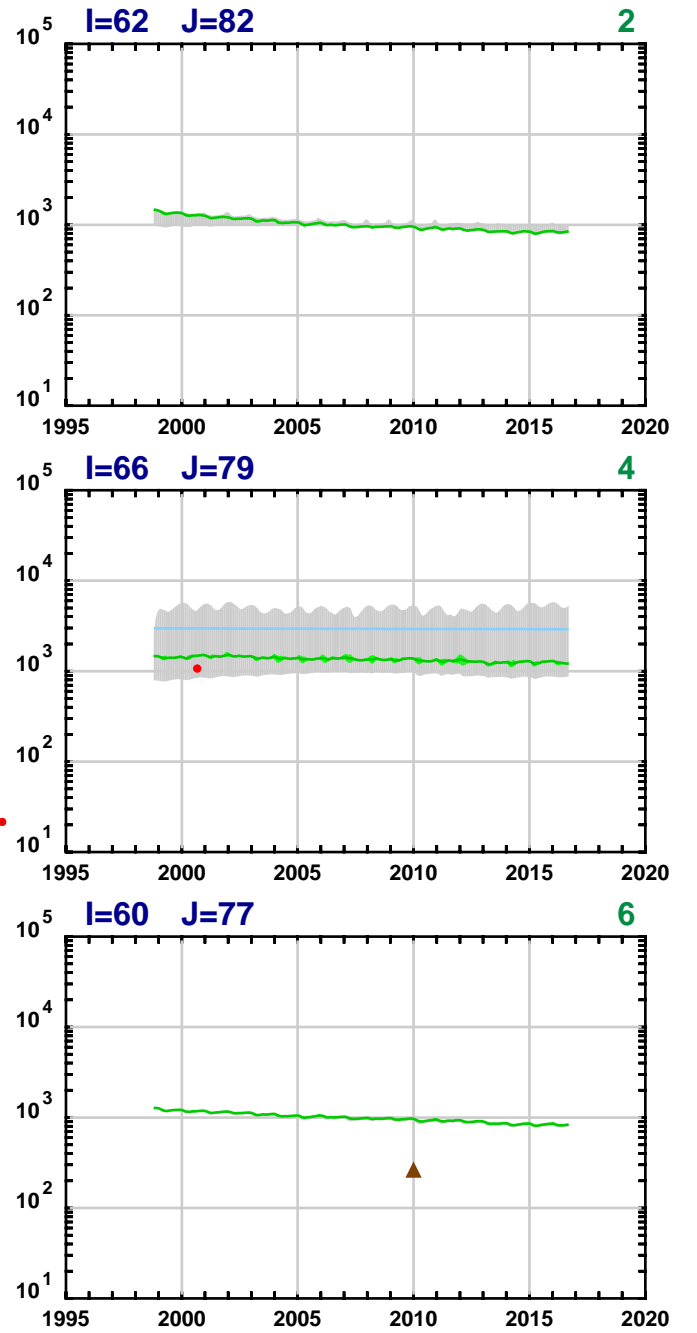
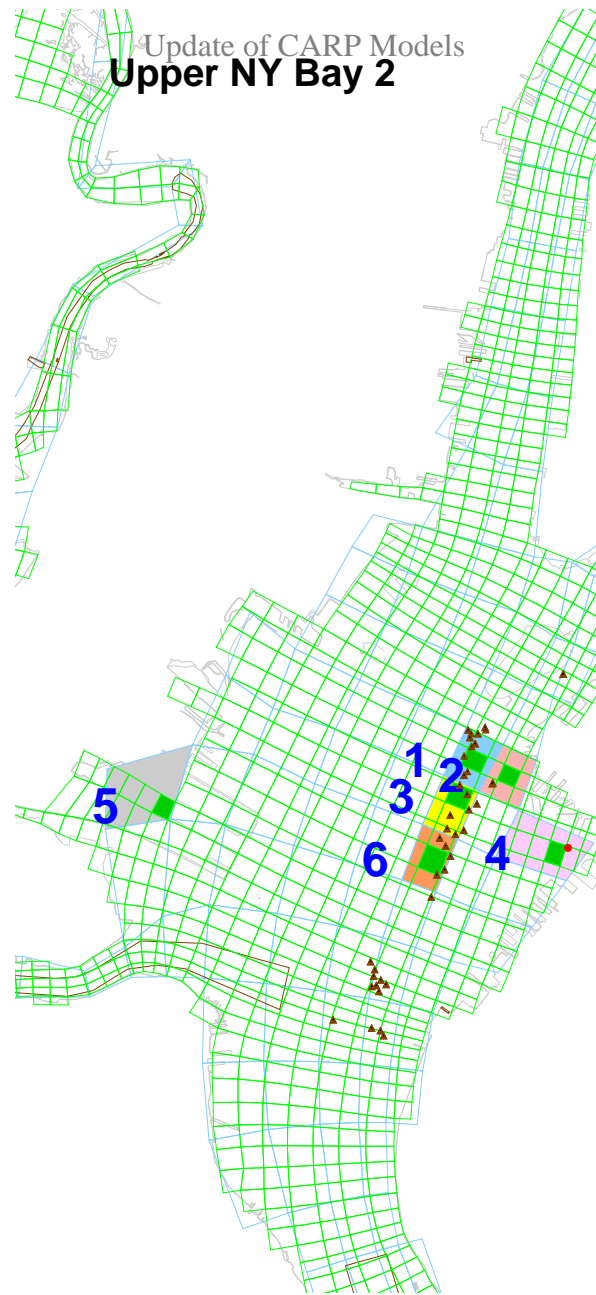
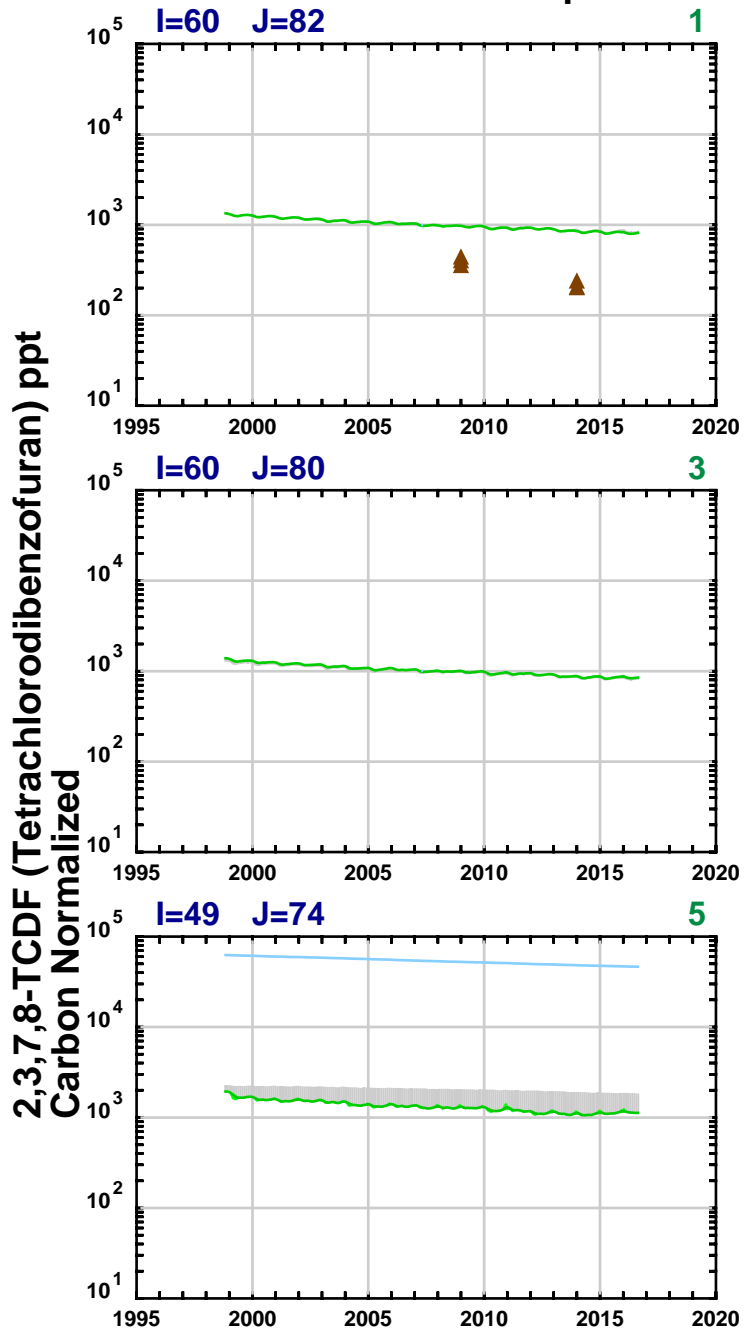


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

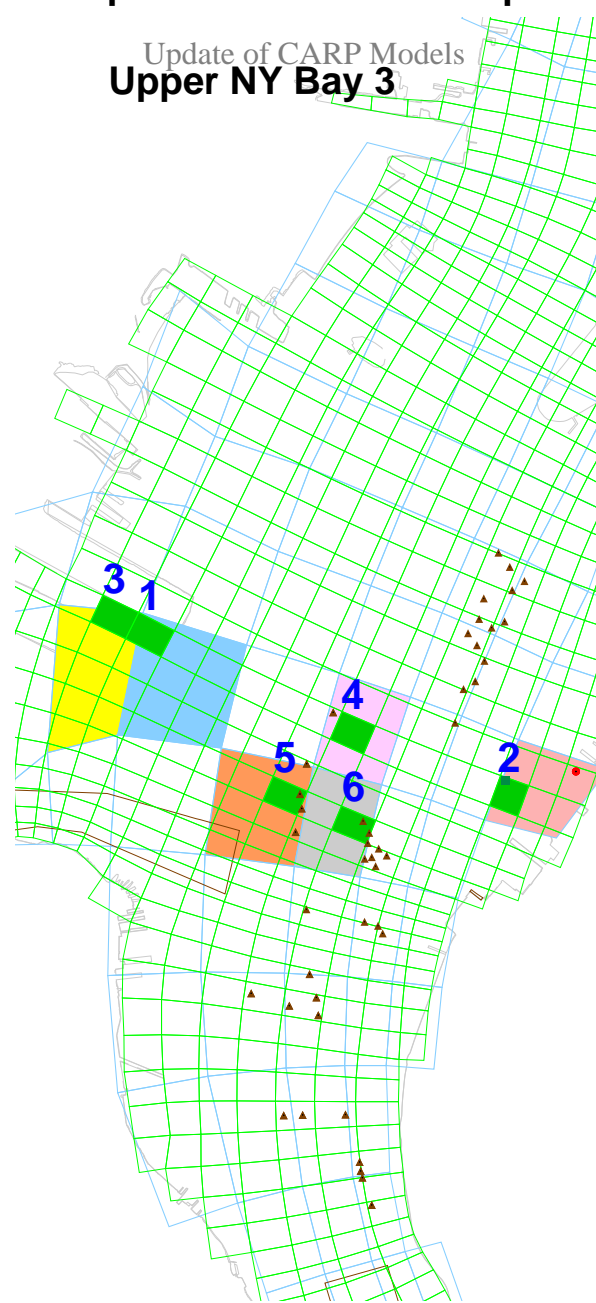
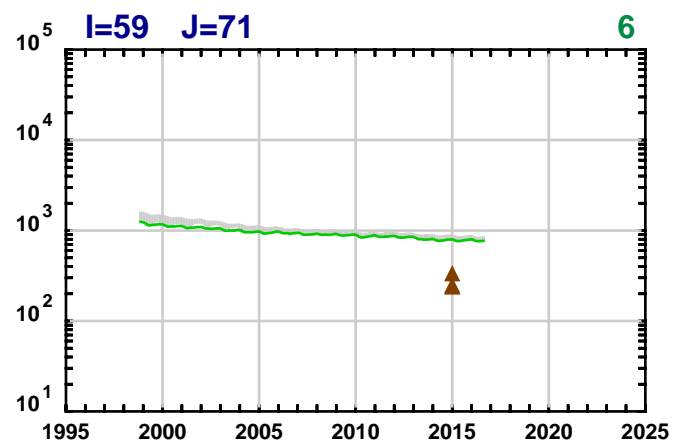
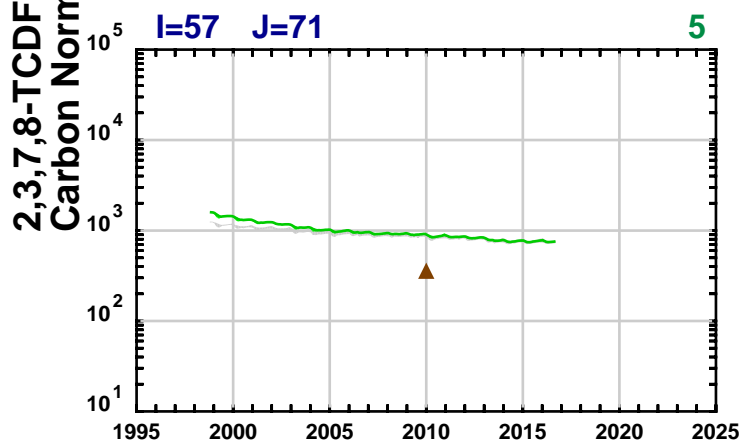
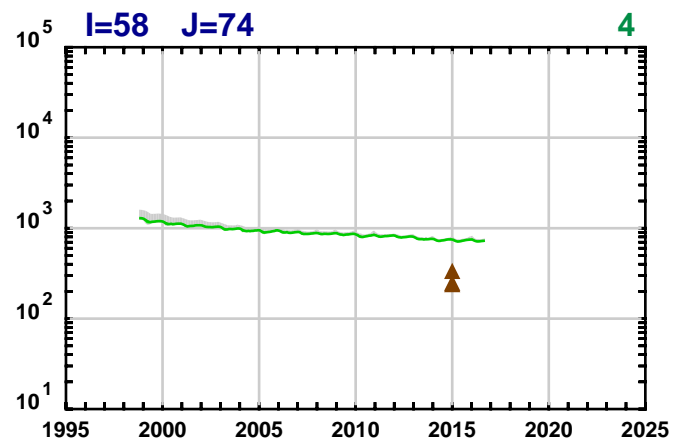
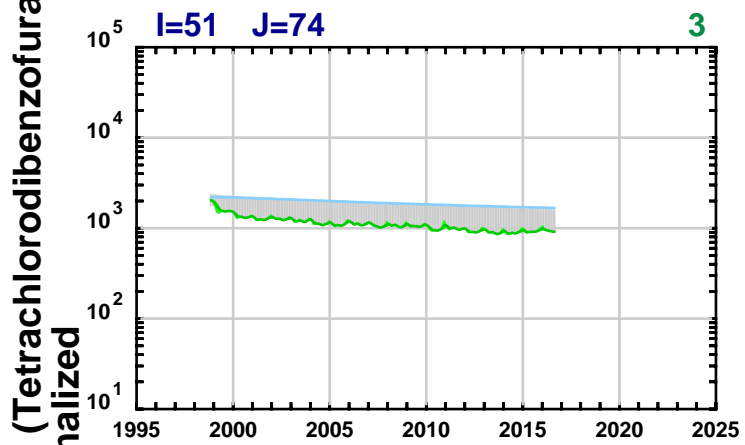
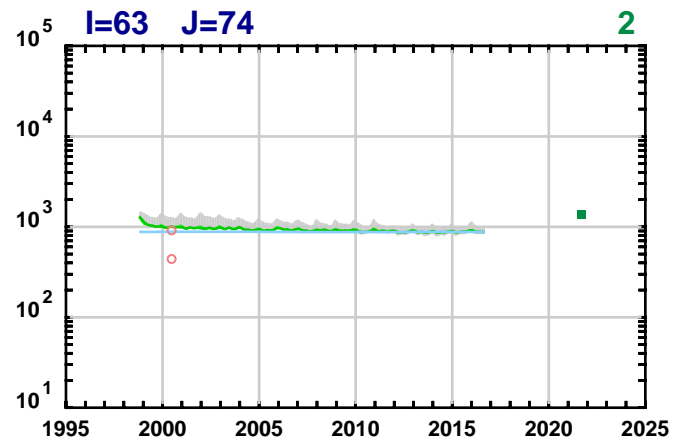
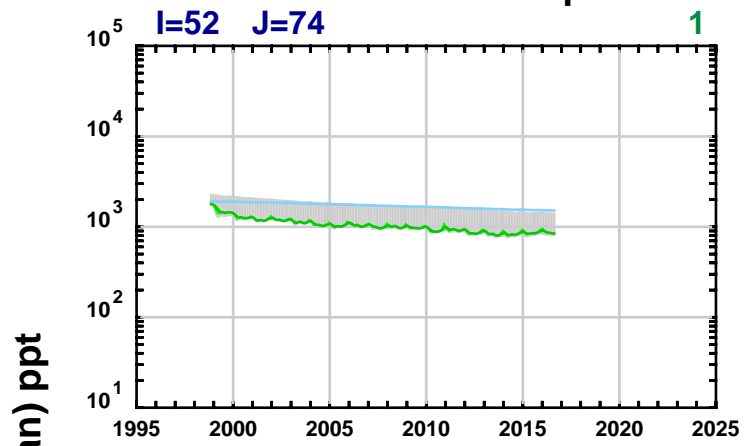


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

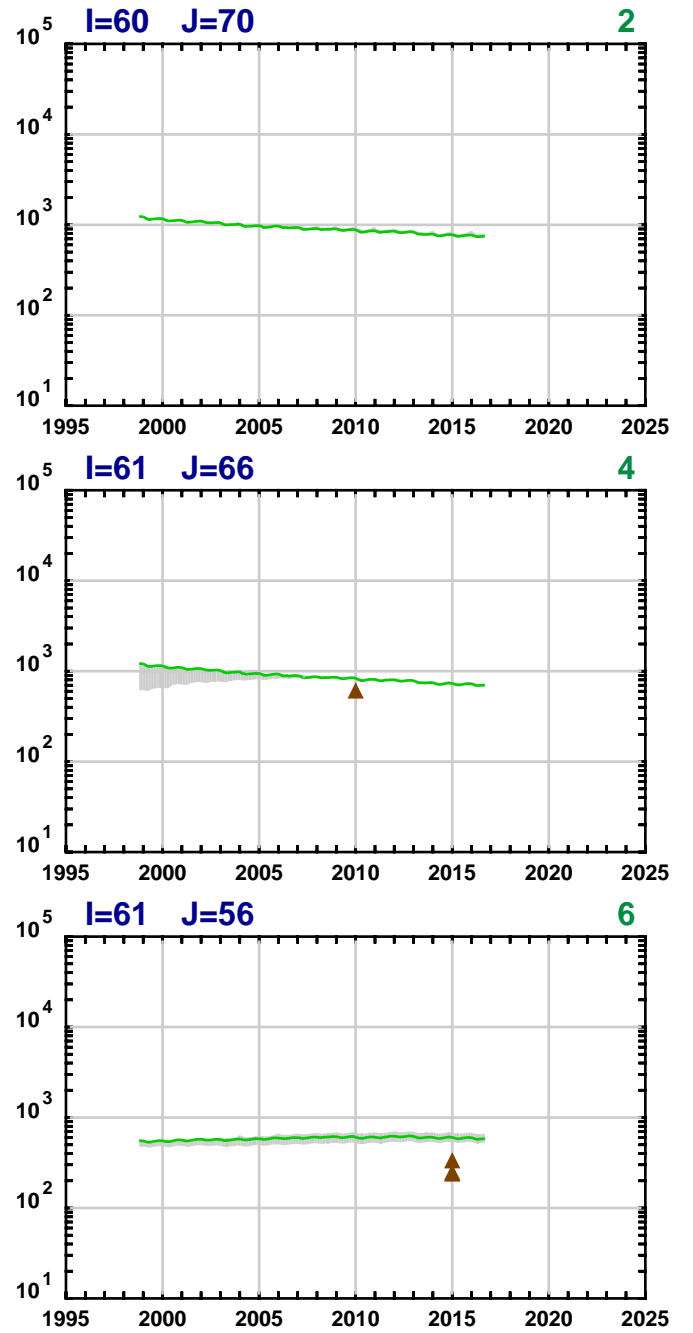
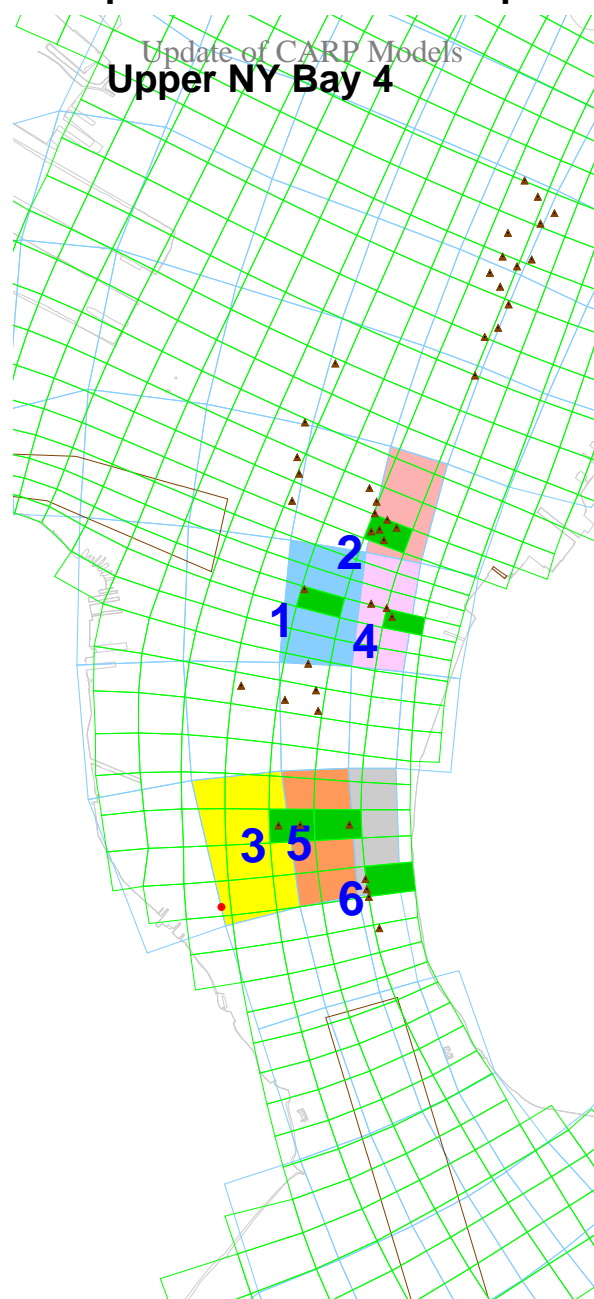
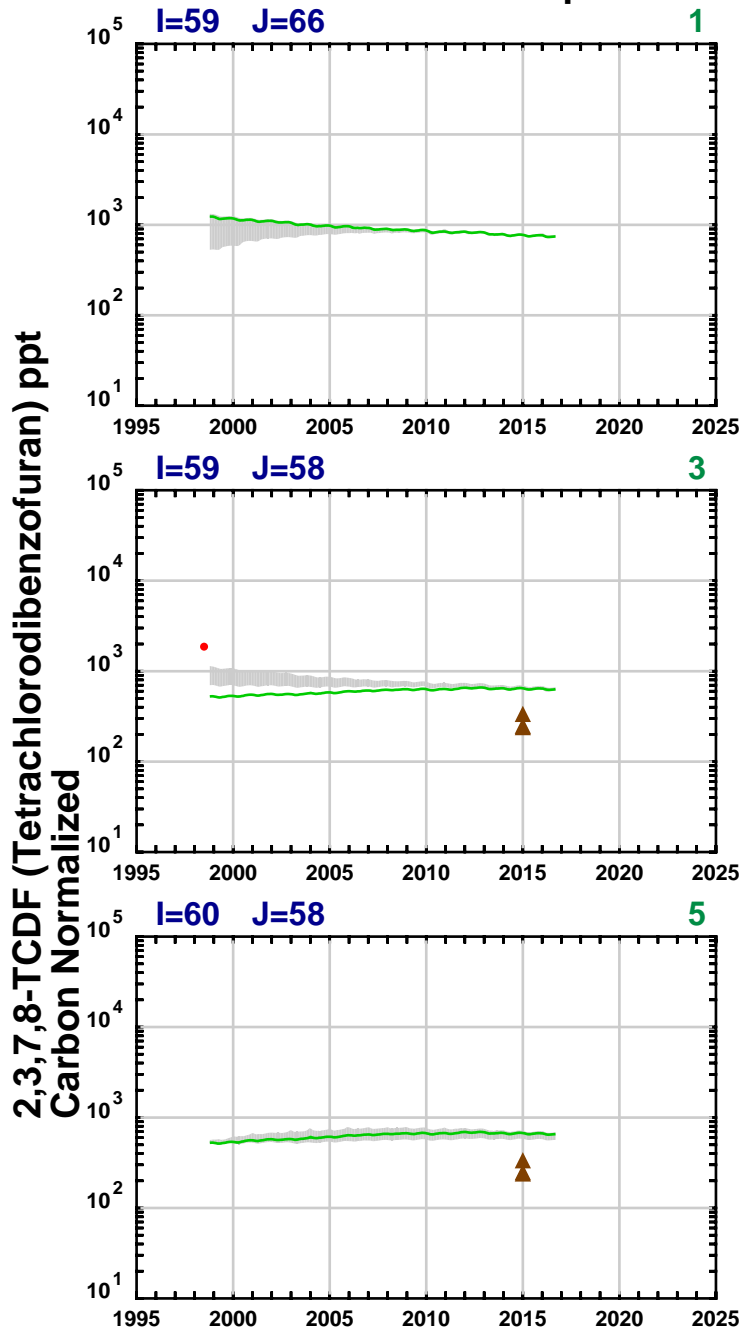


**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data**    **● Off-channel data**    **▲ Dredge data**  
**■ CARP2 In-channel**    **■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

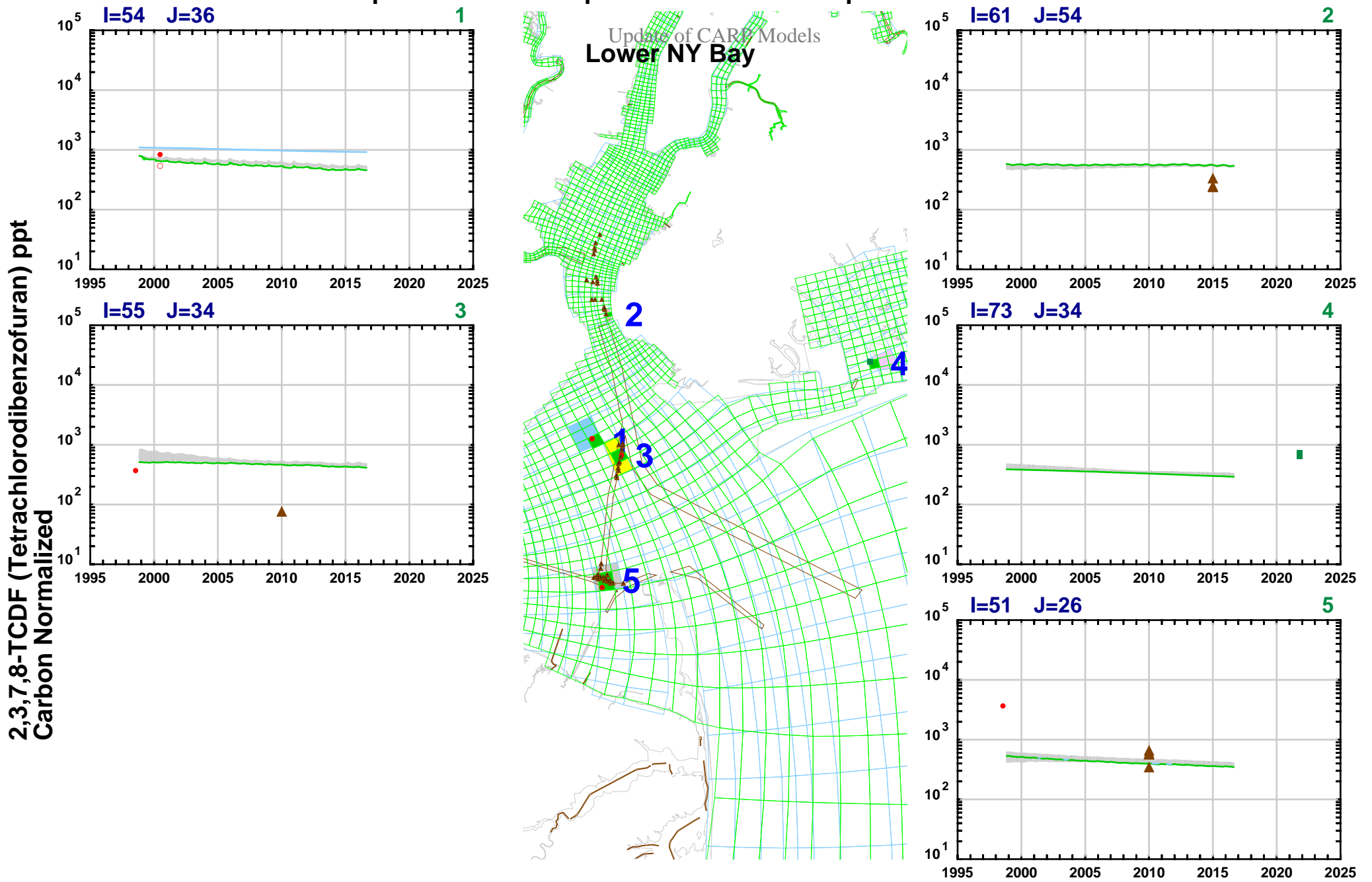


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



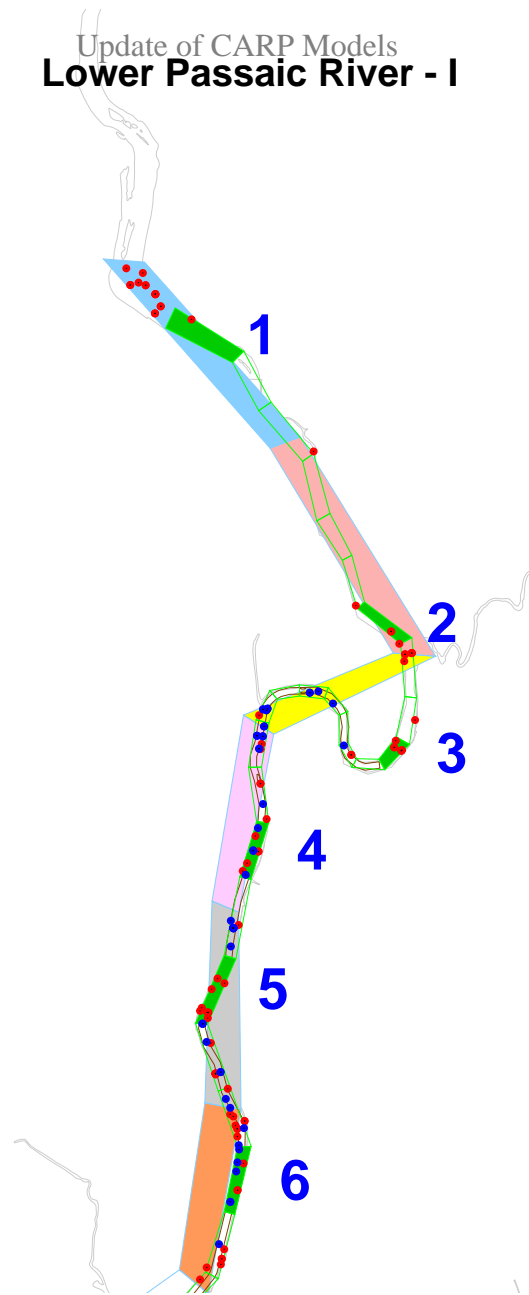
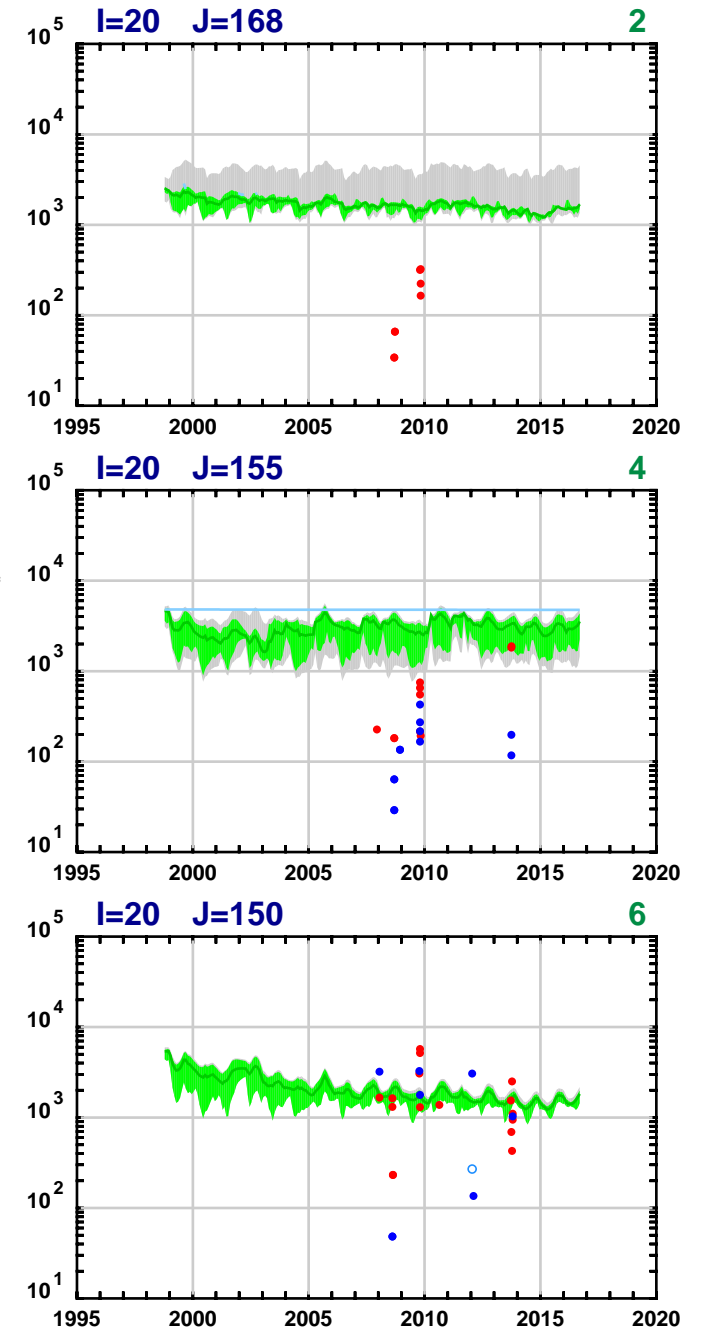
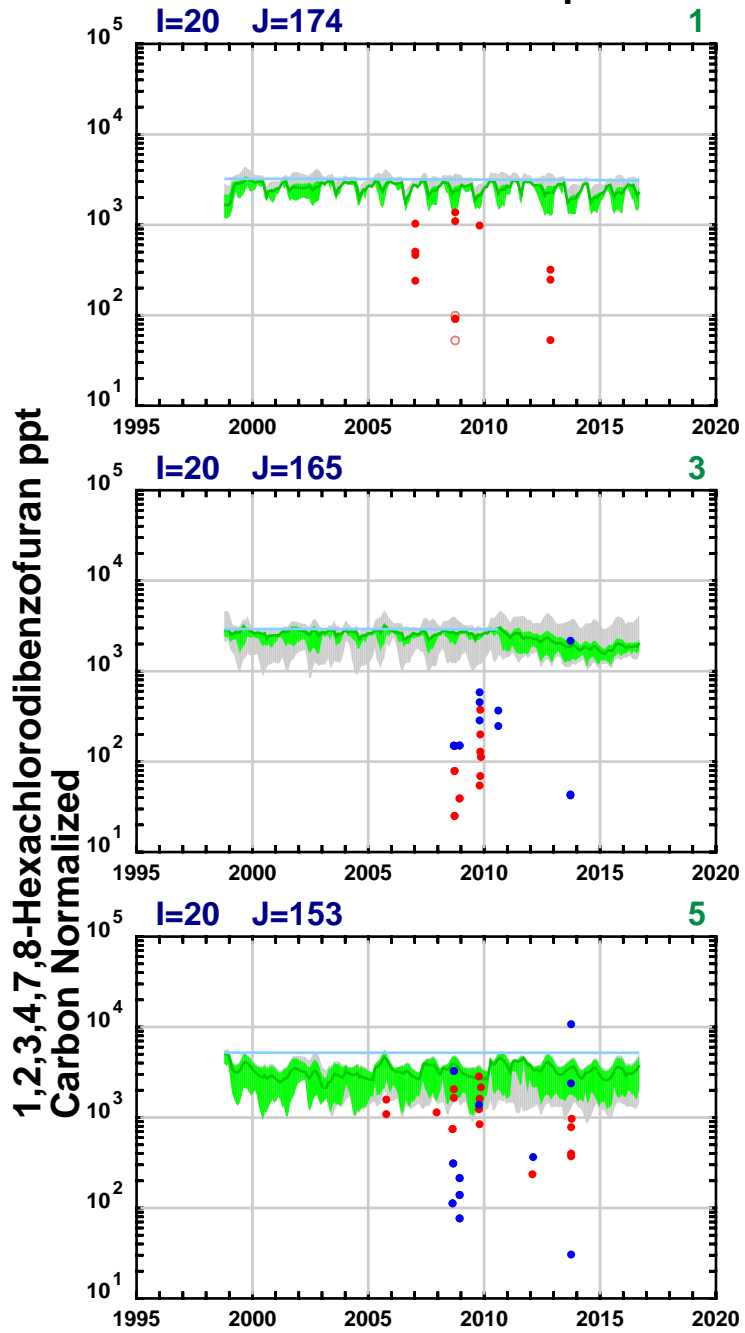
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CAPP2 In-channel ■ CAPP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Lower Passaic River - I



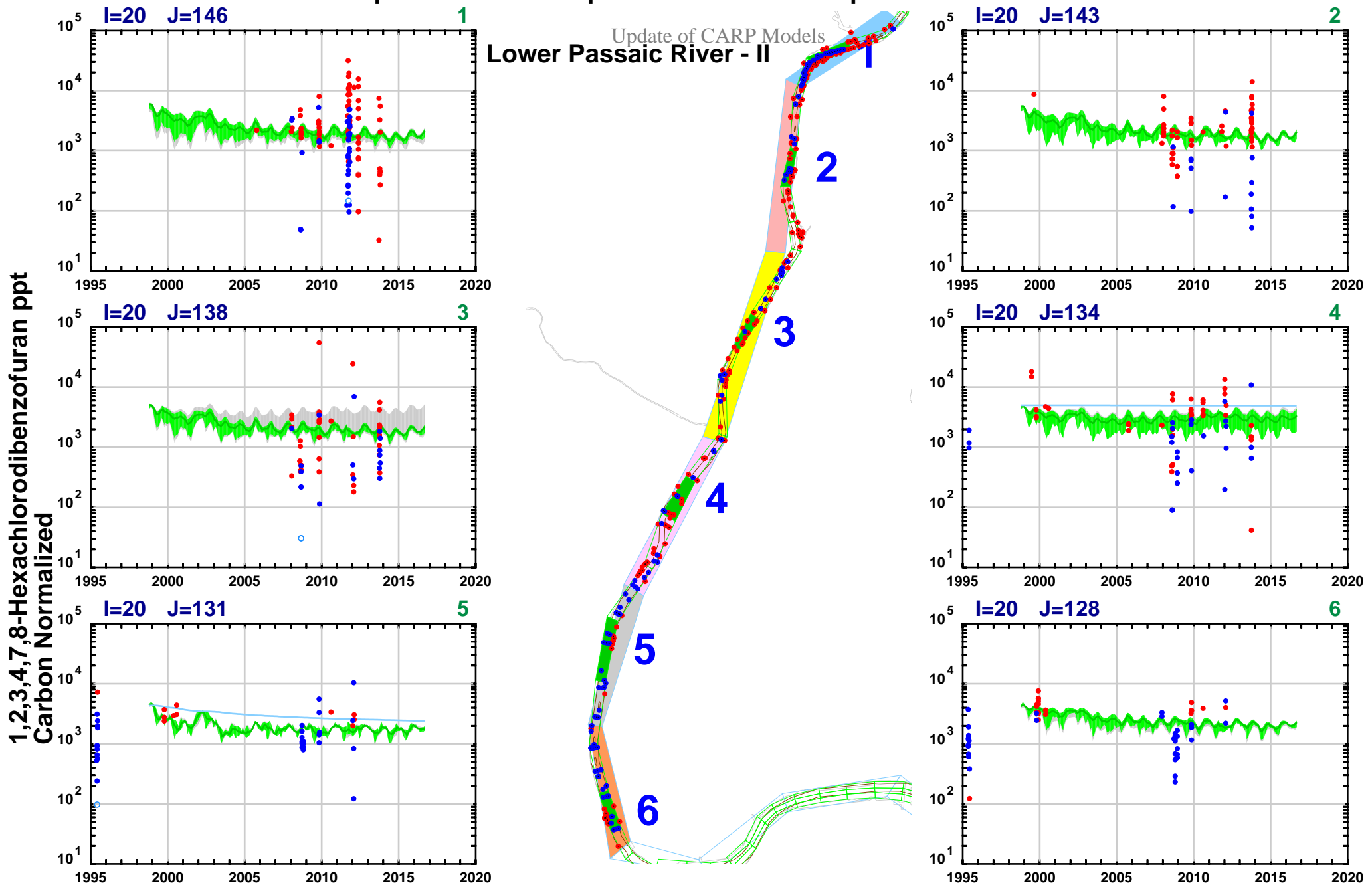
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



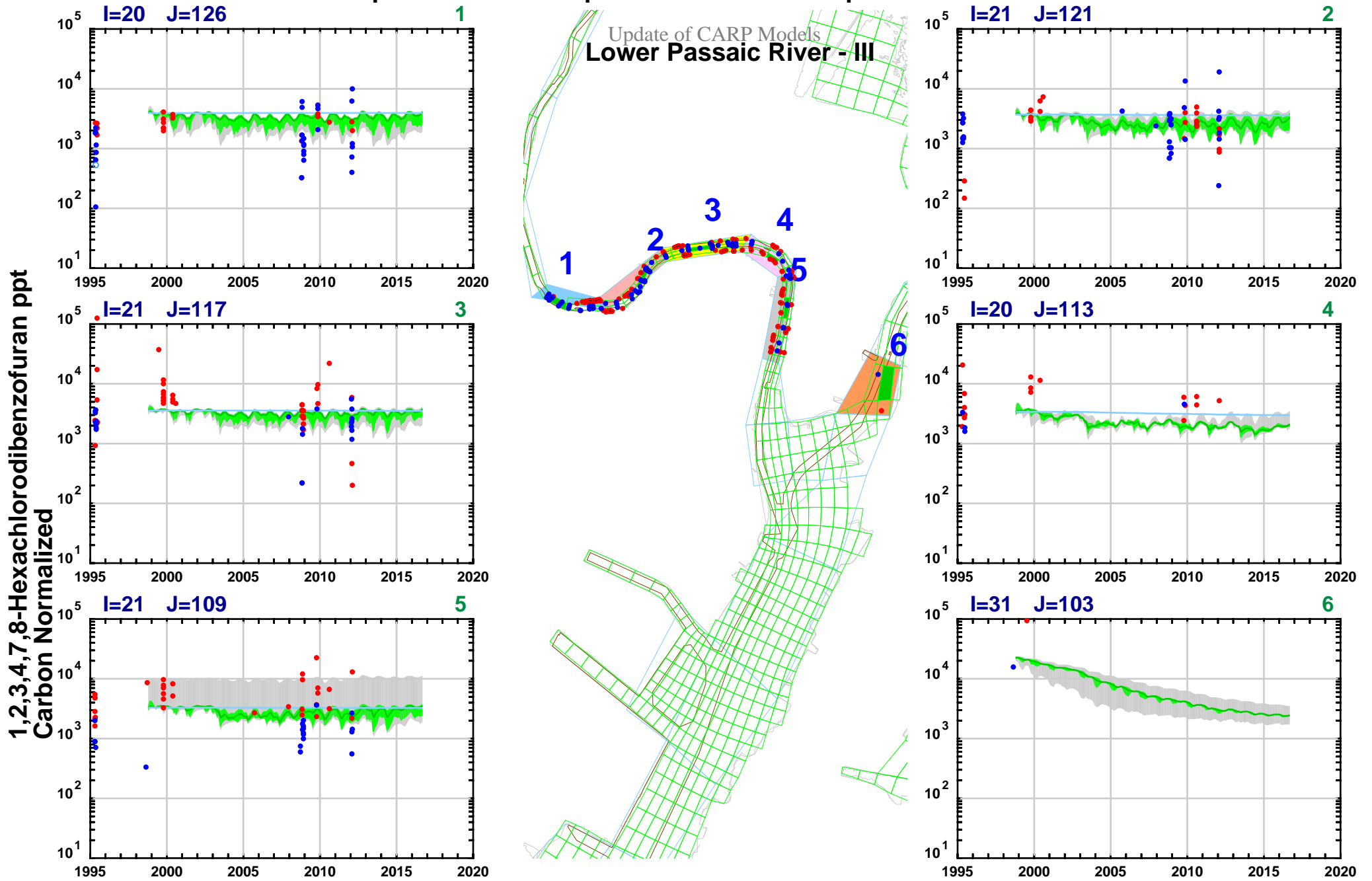
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

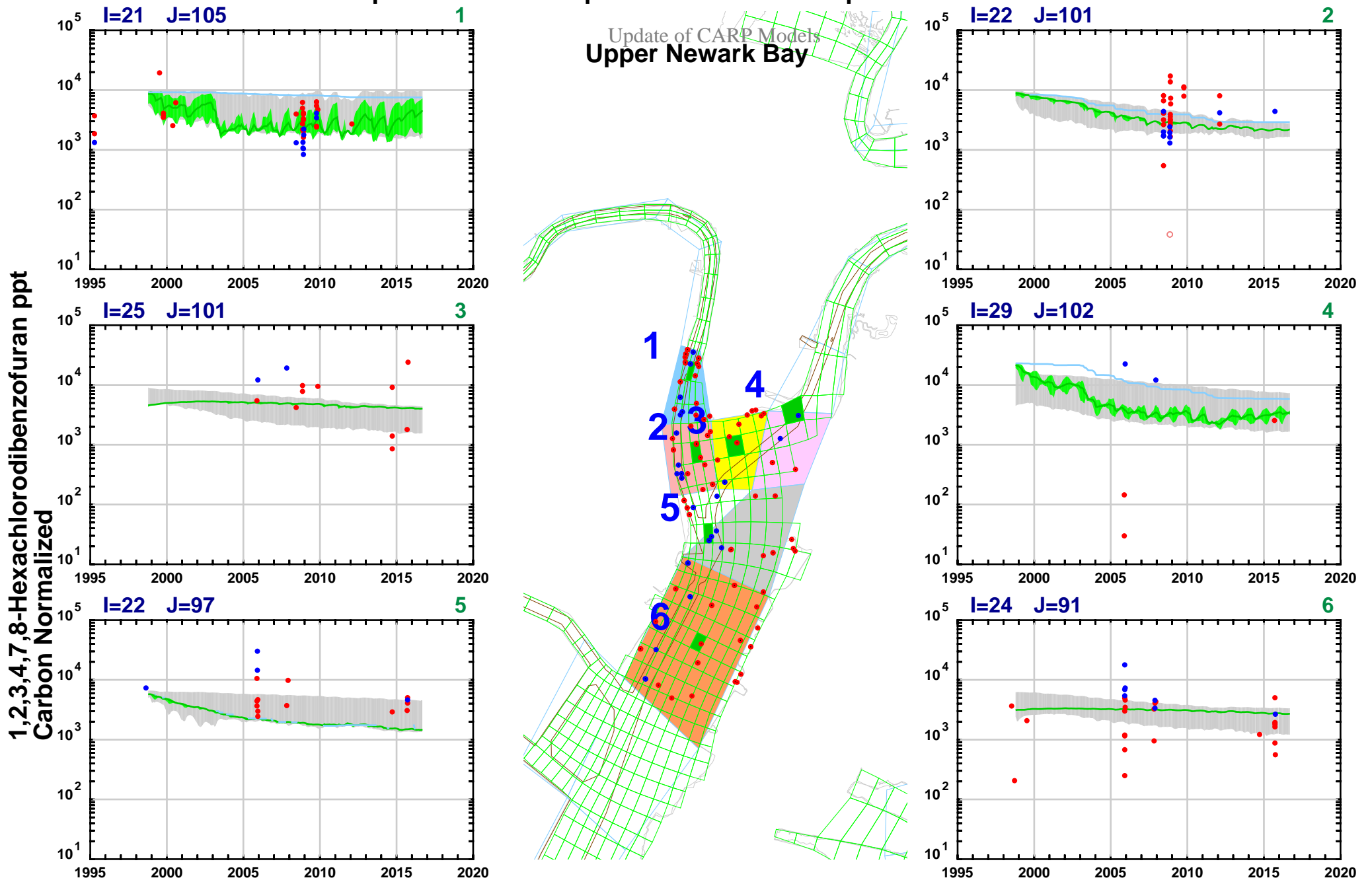


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



Update of CARP Models  
Upper Newark Bay

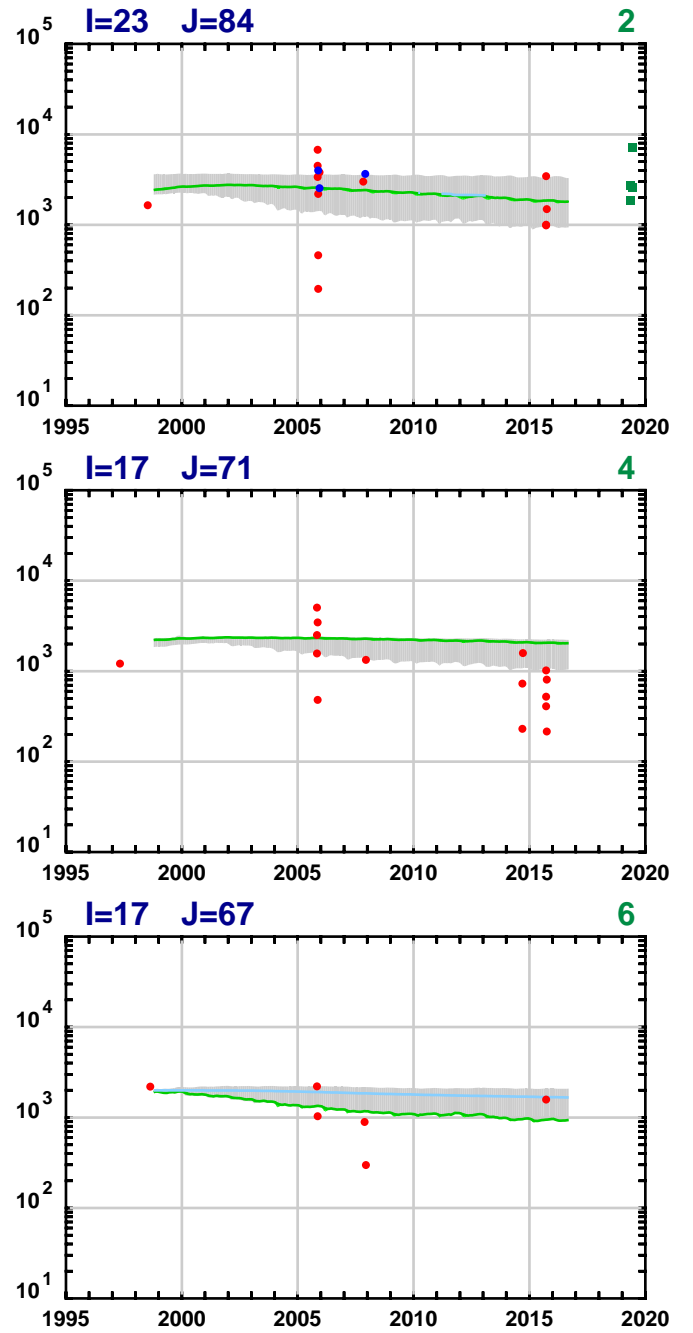
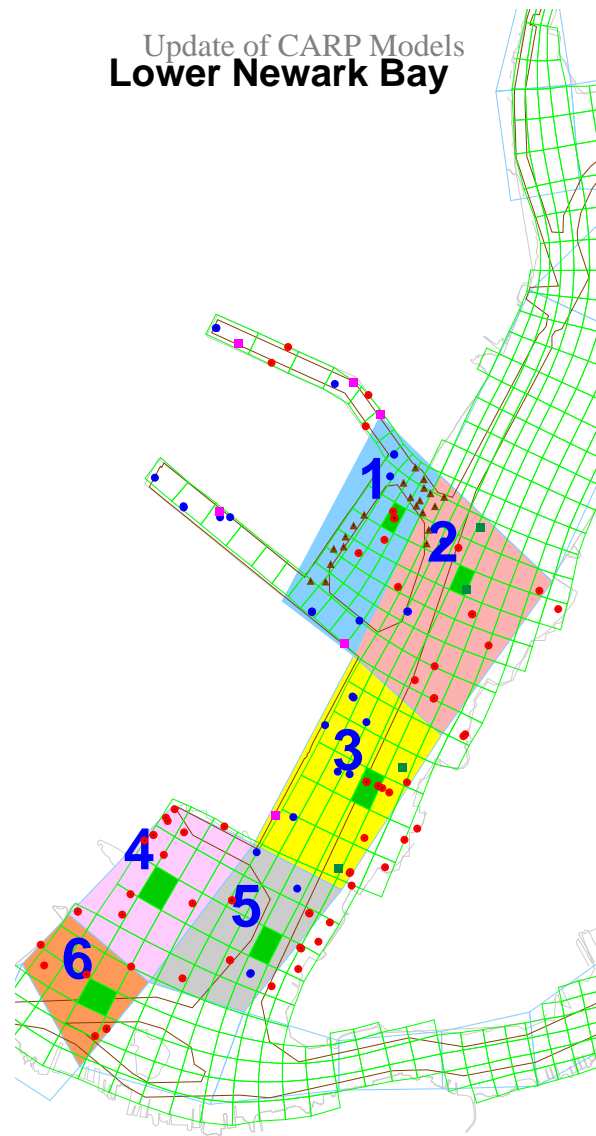
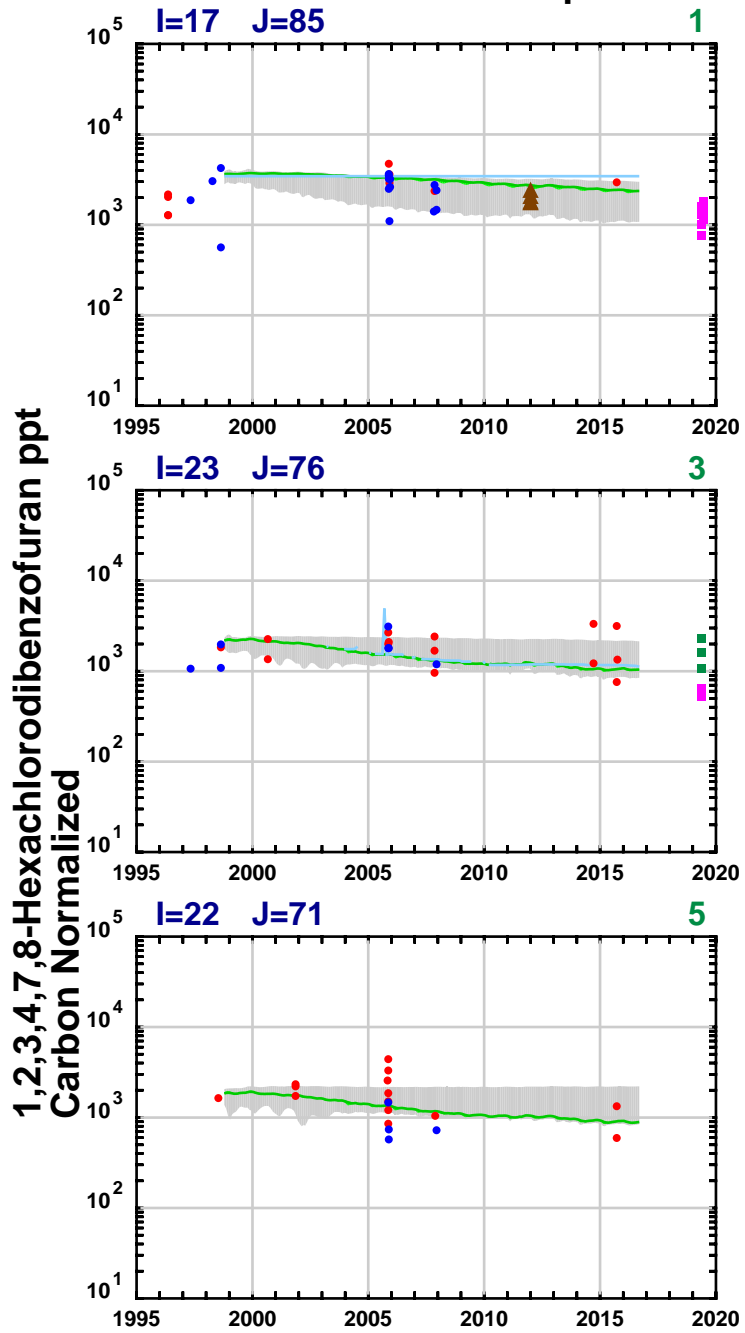
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Lower Newark Bay



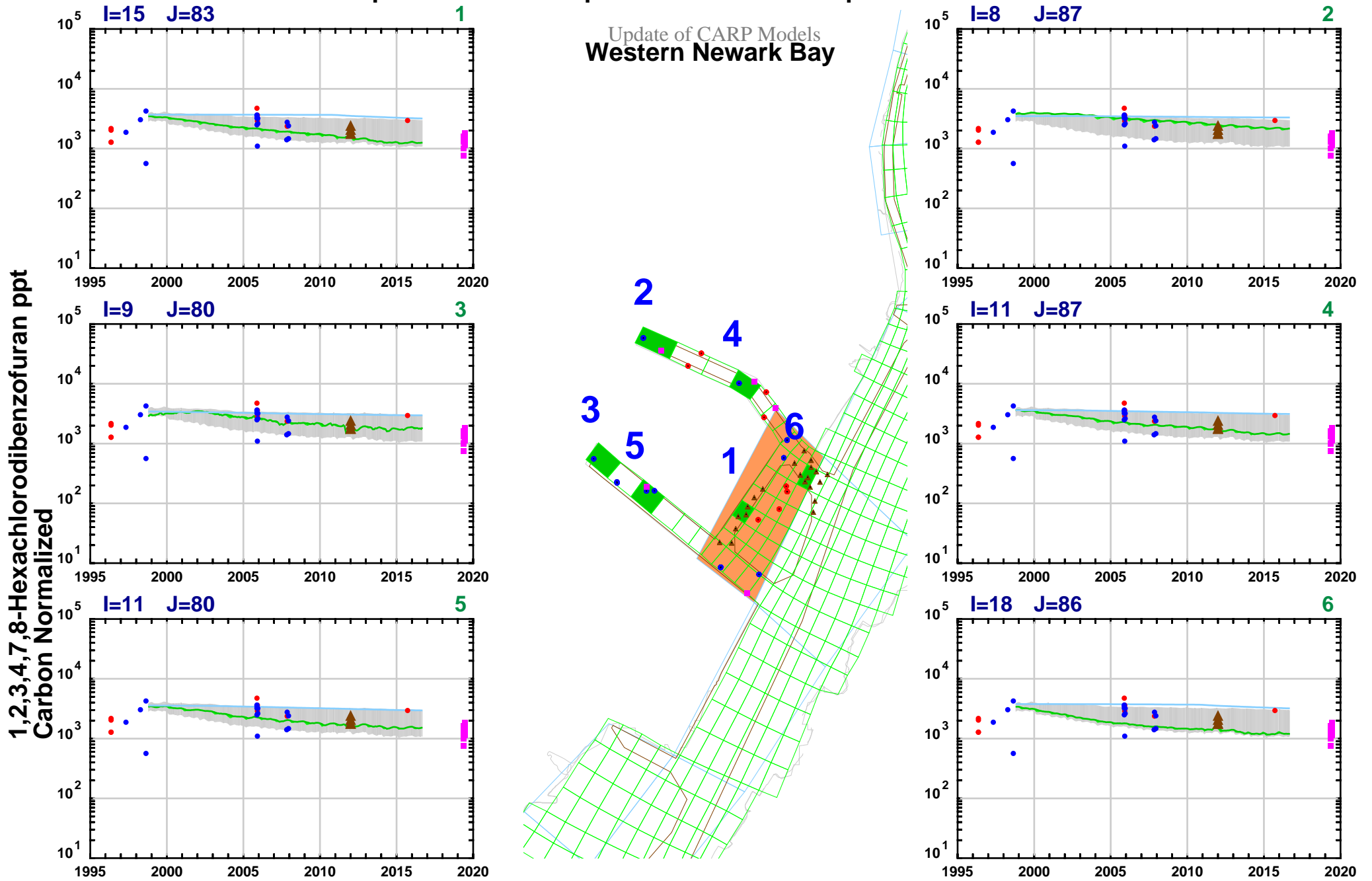
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay



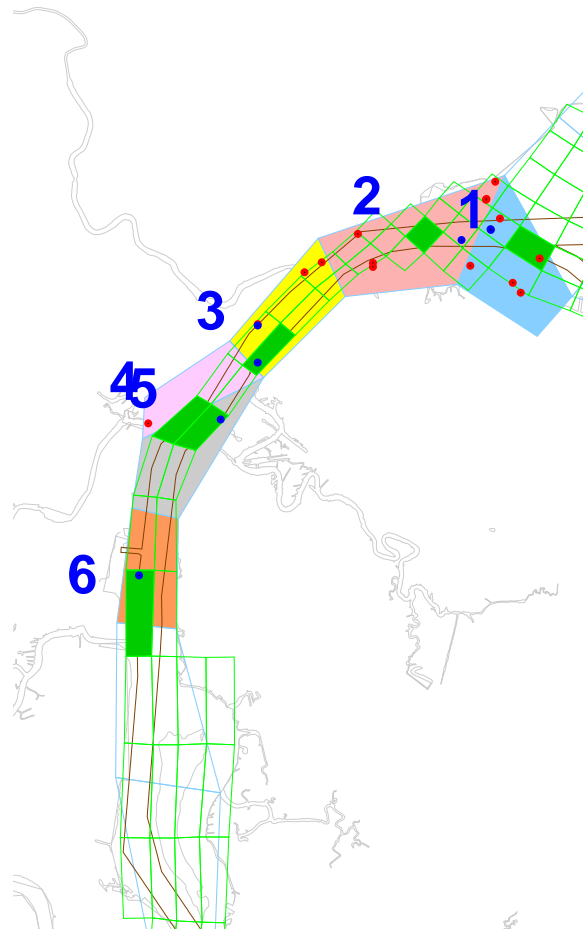
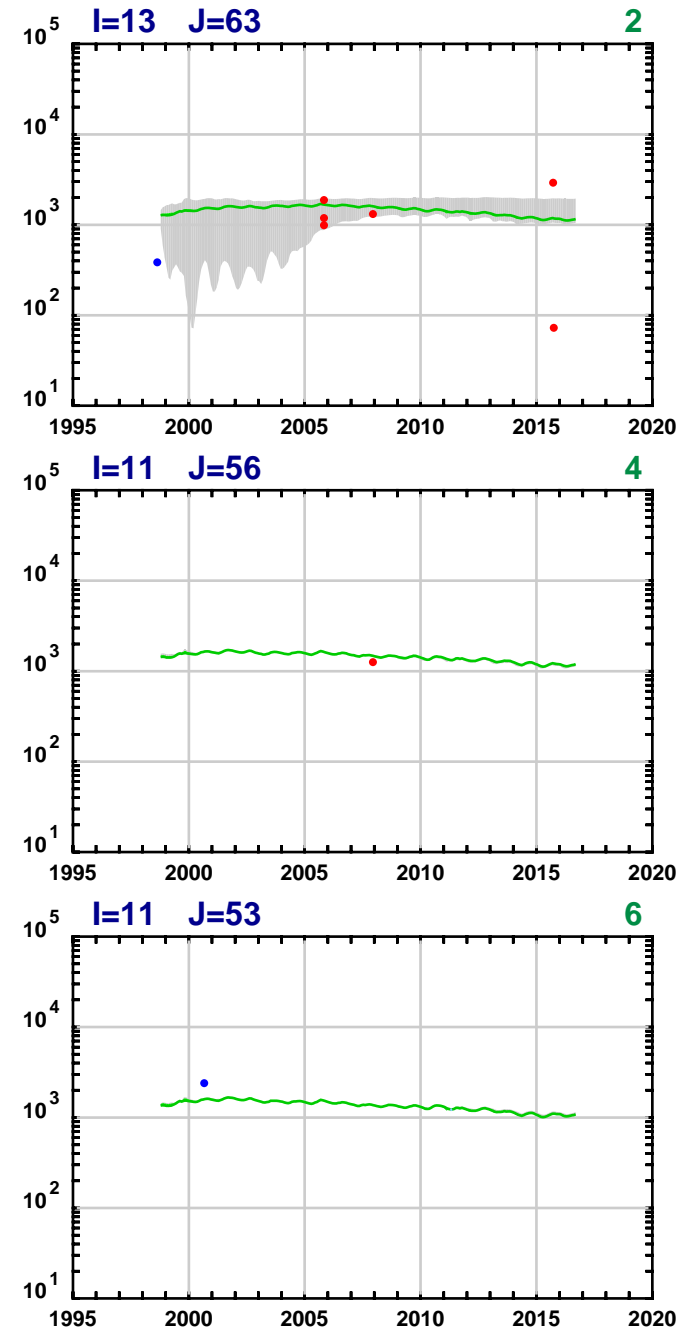
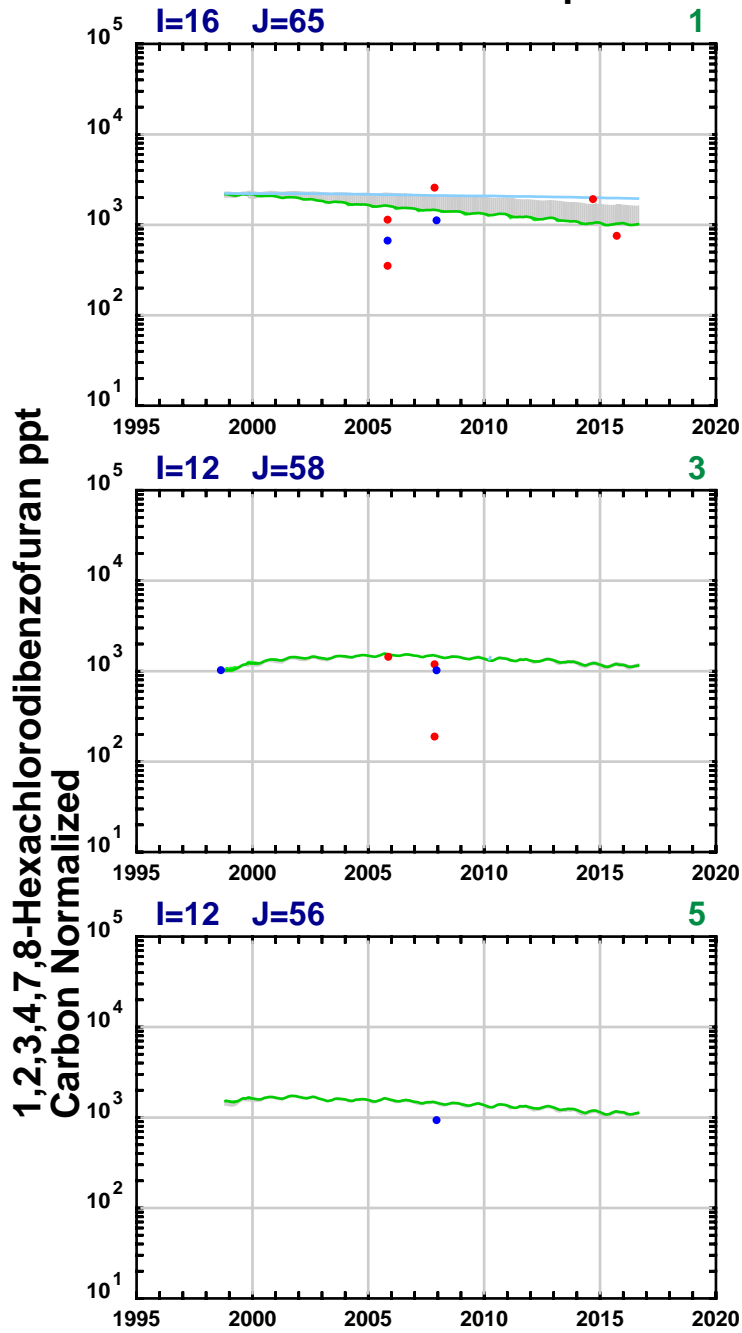
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

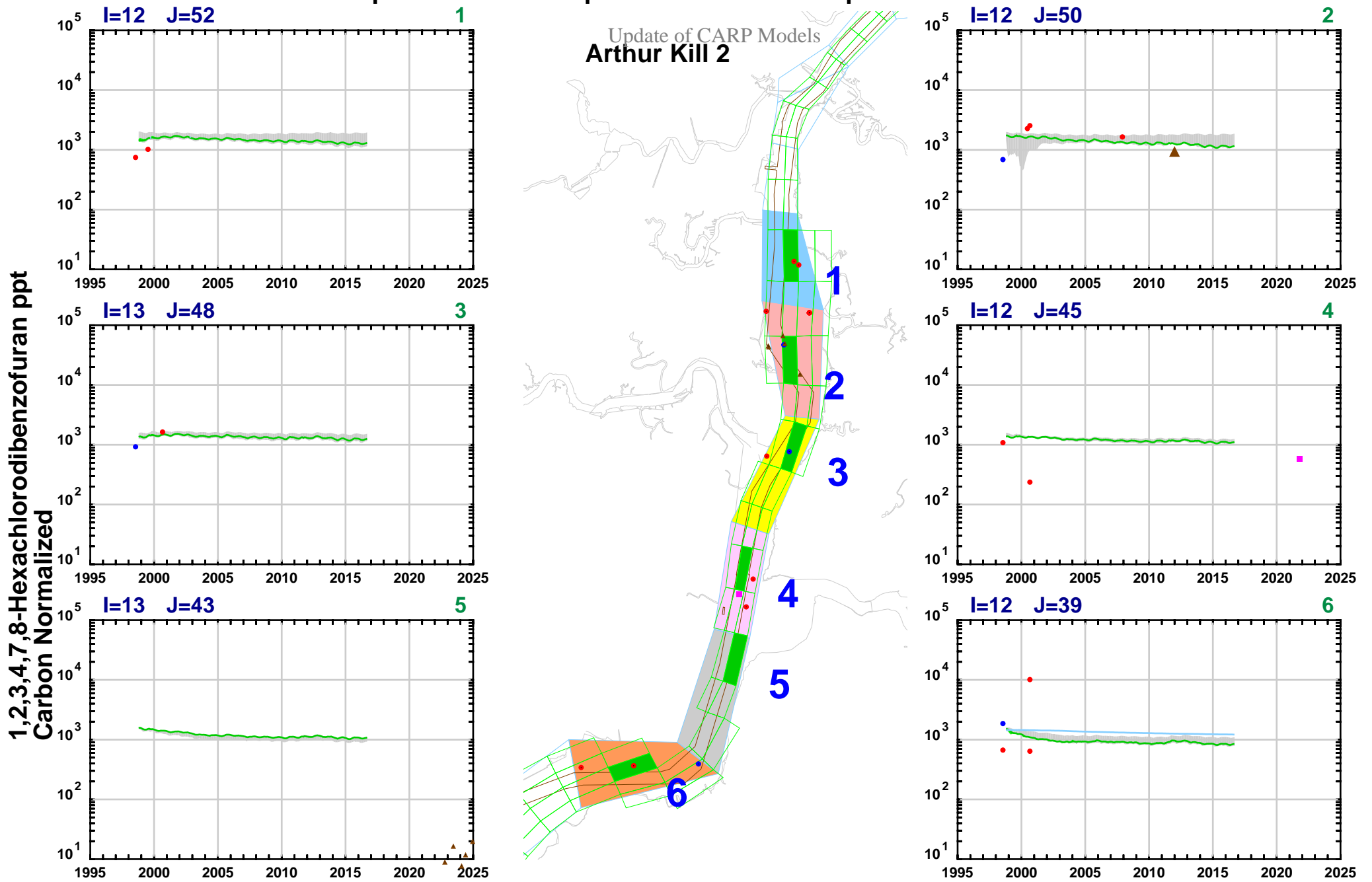


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

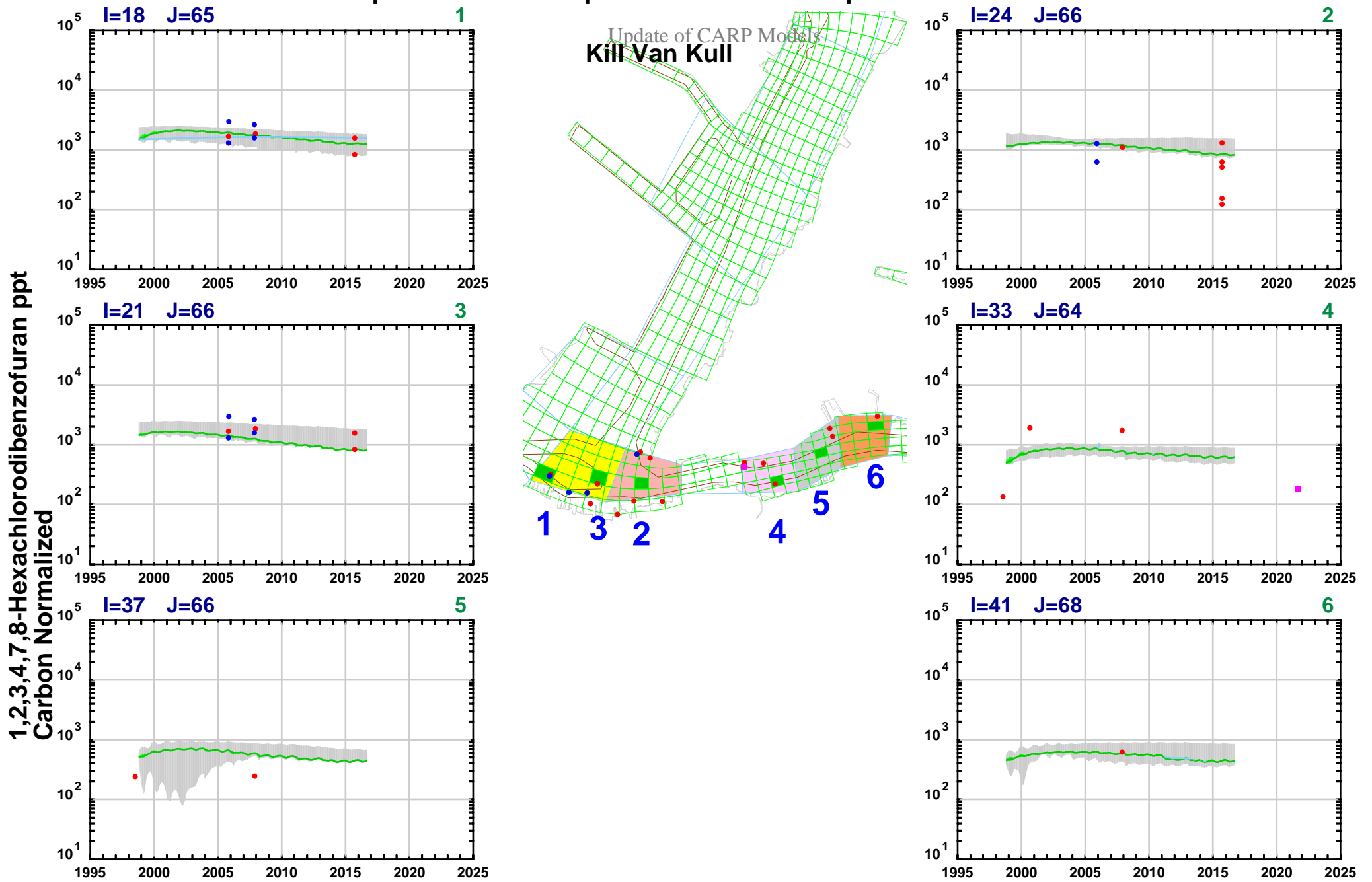


**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data    ● Off-channel data    ▲ Dredge data**  
**■ CARP2 In-channel    ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment



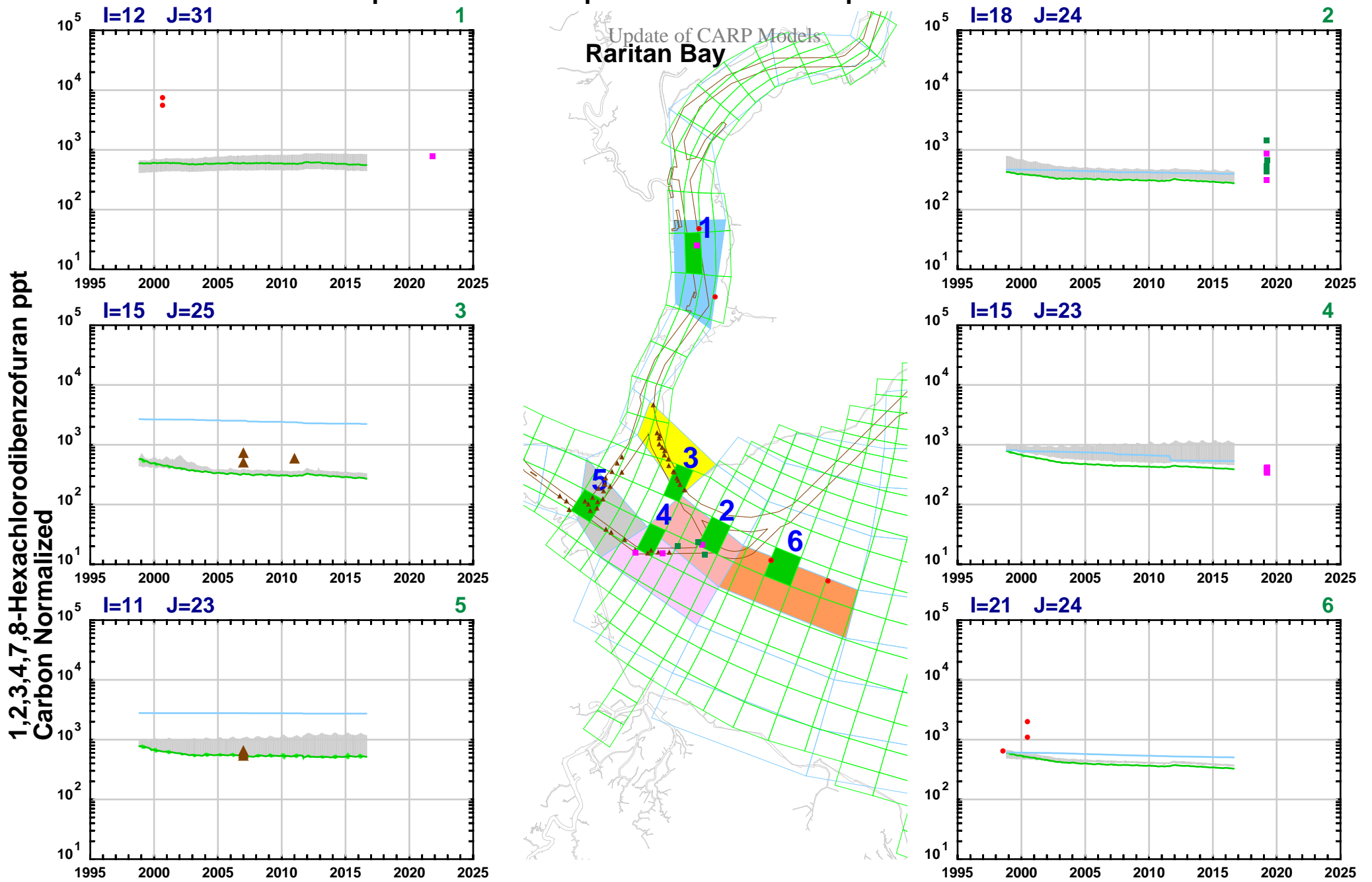
**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

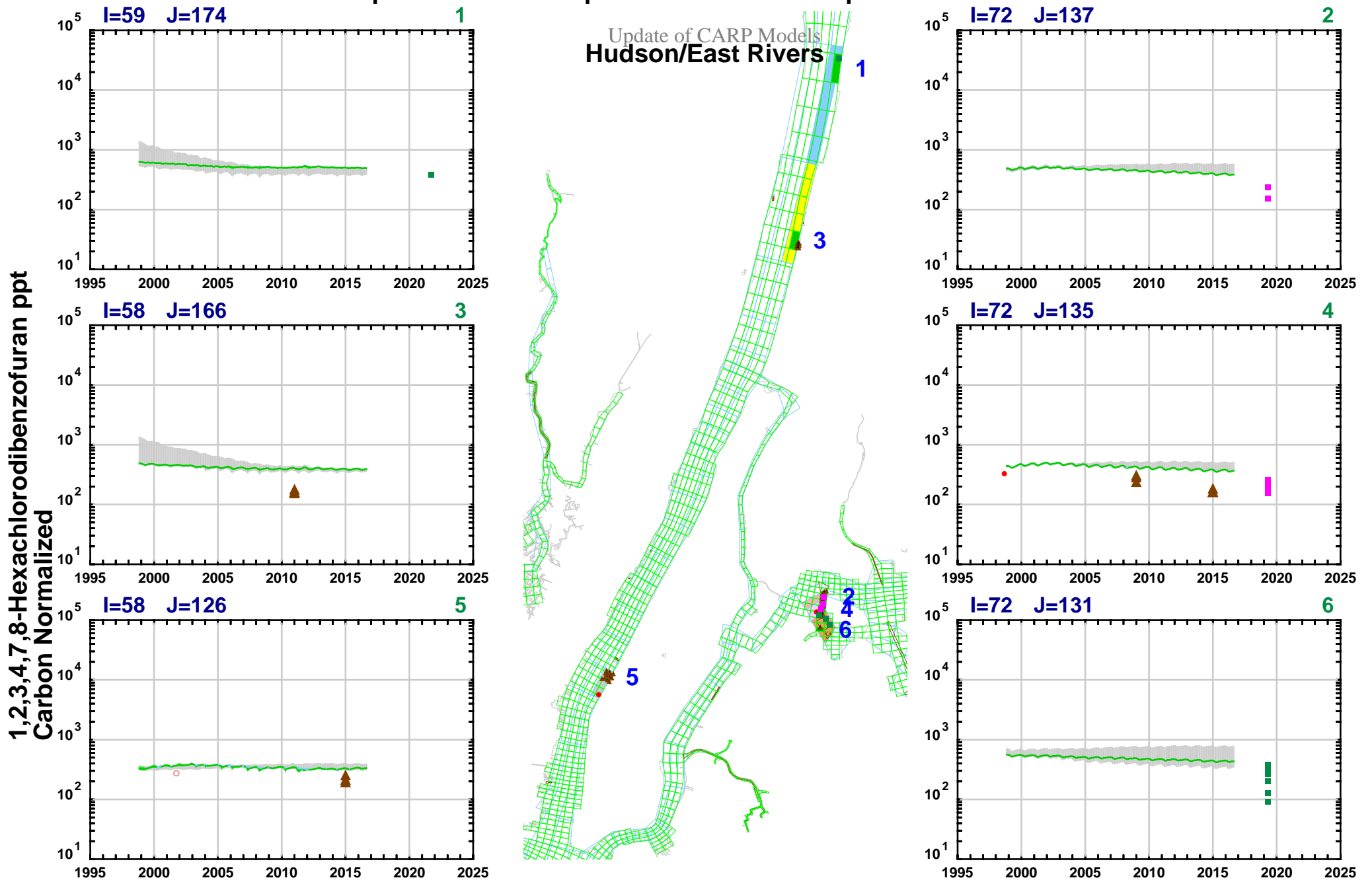


**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

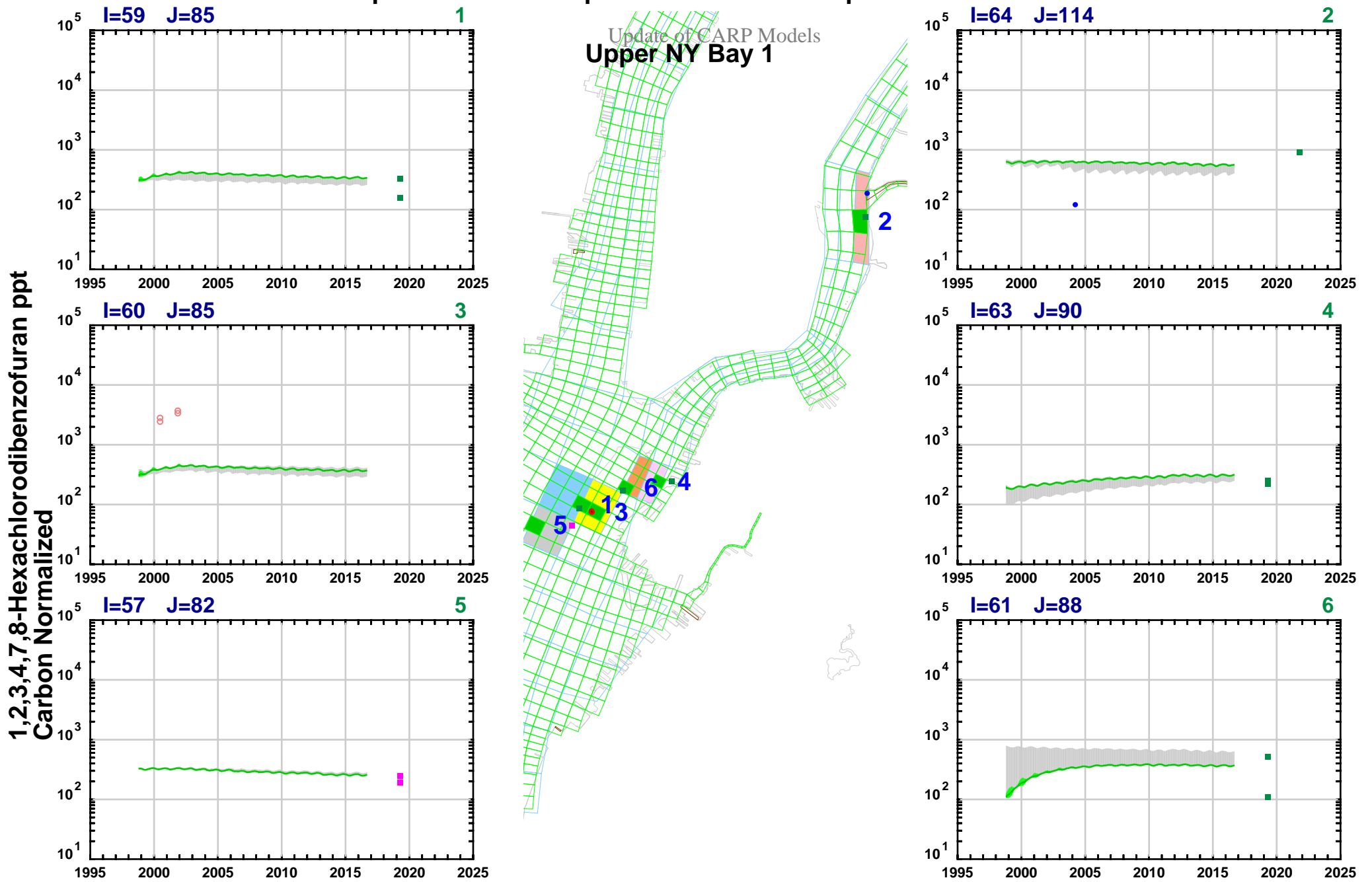


**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data   ● Off-channel data   ▲ Dredge data**  
**■ CARP2 In-channel   ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

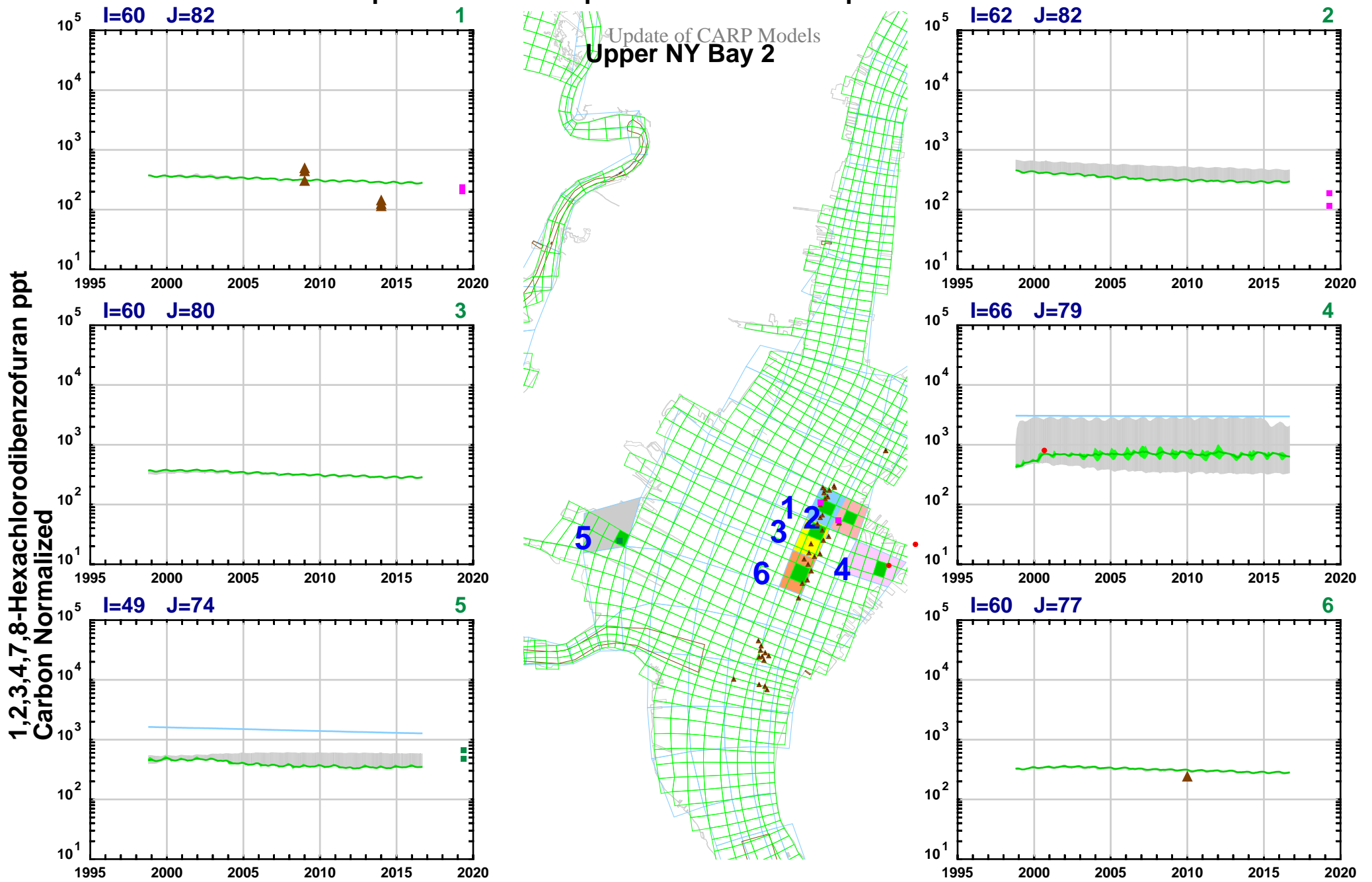


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

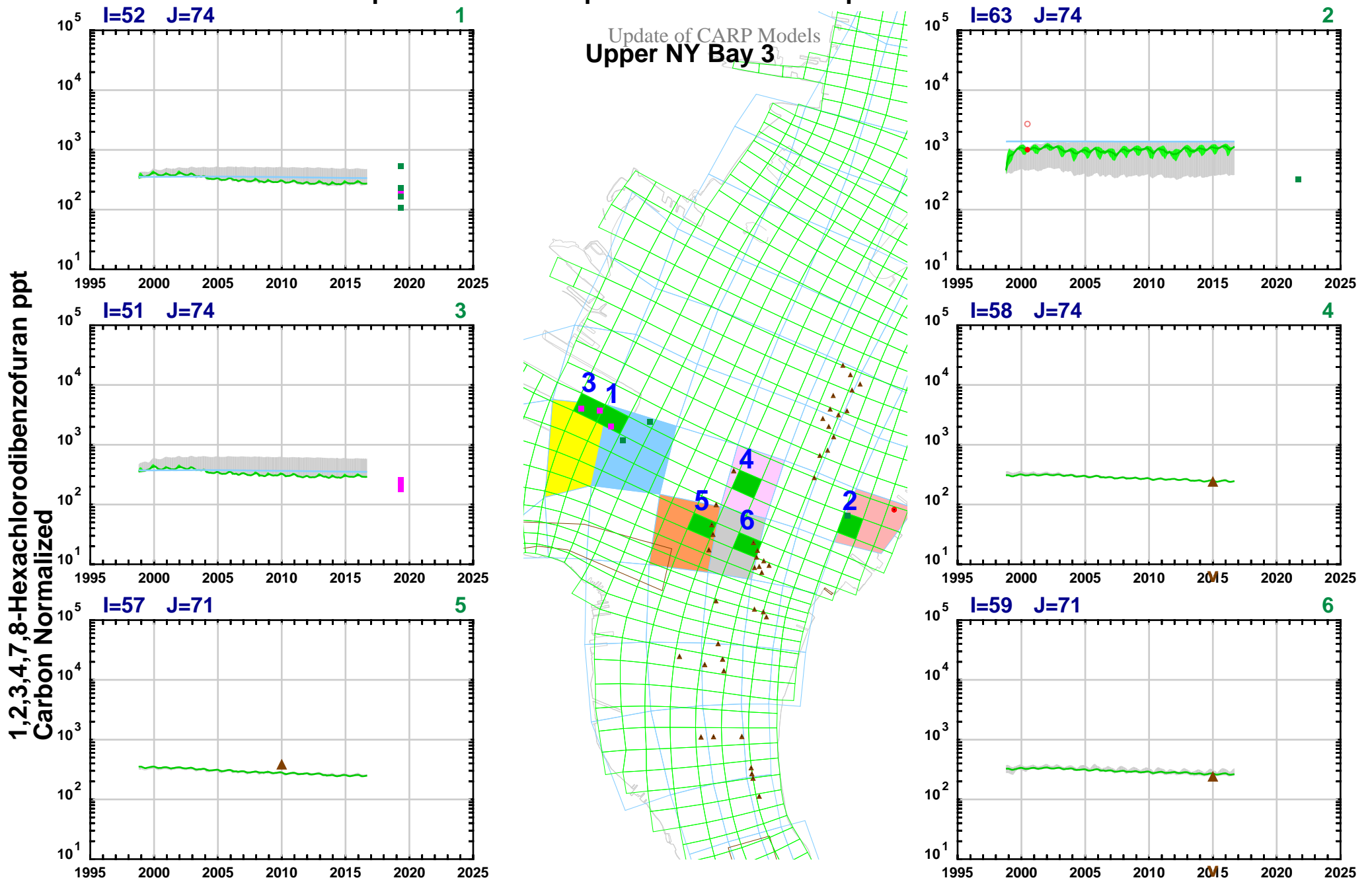


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

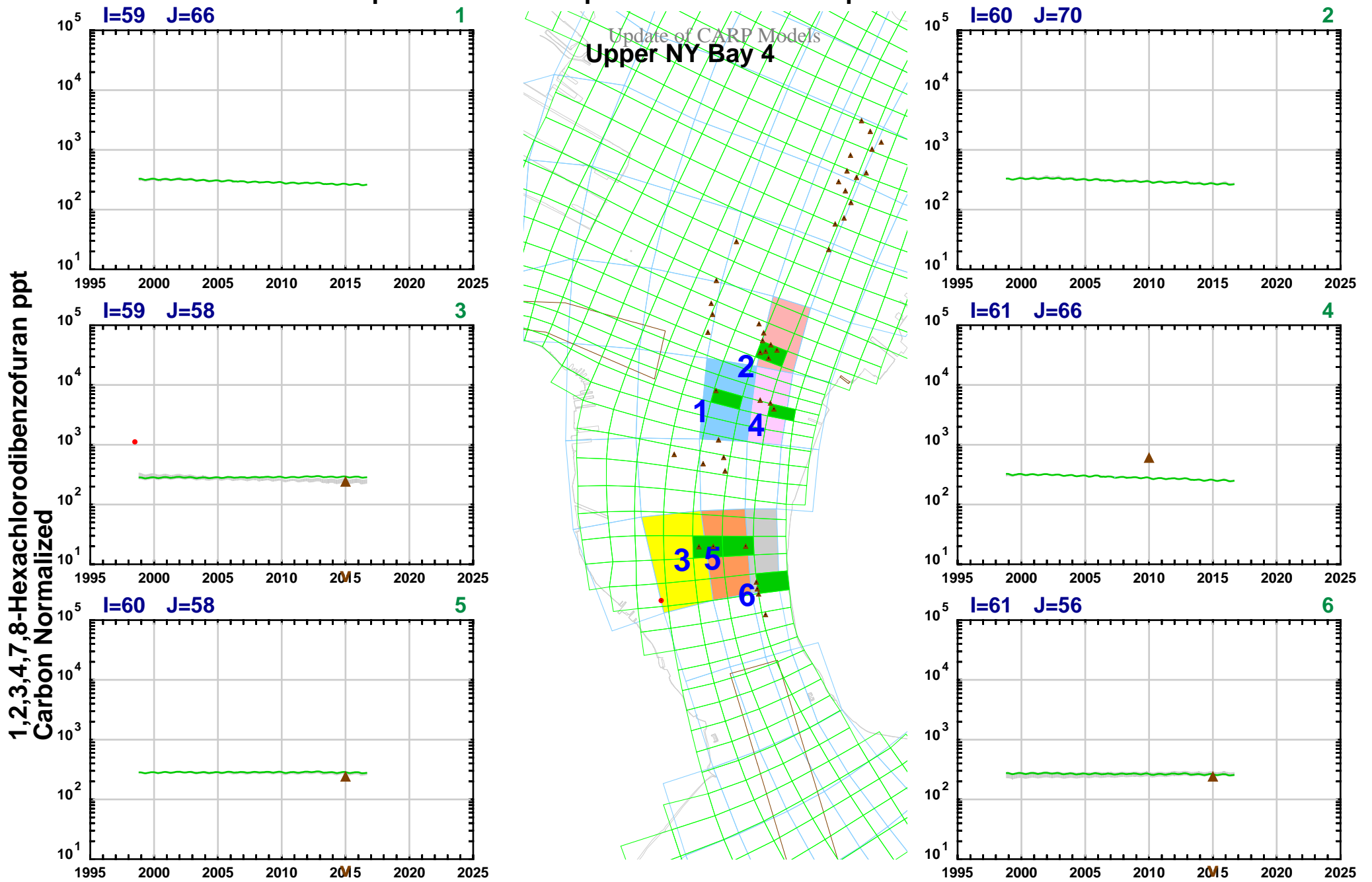


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



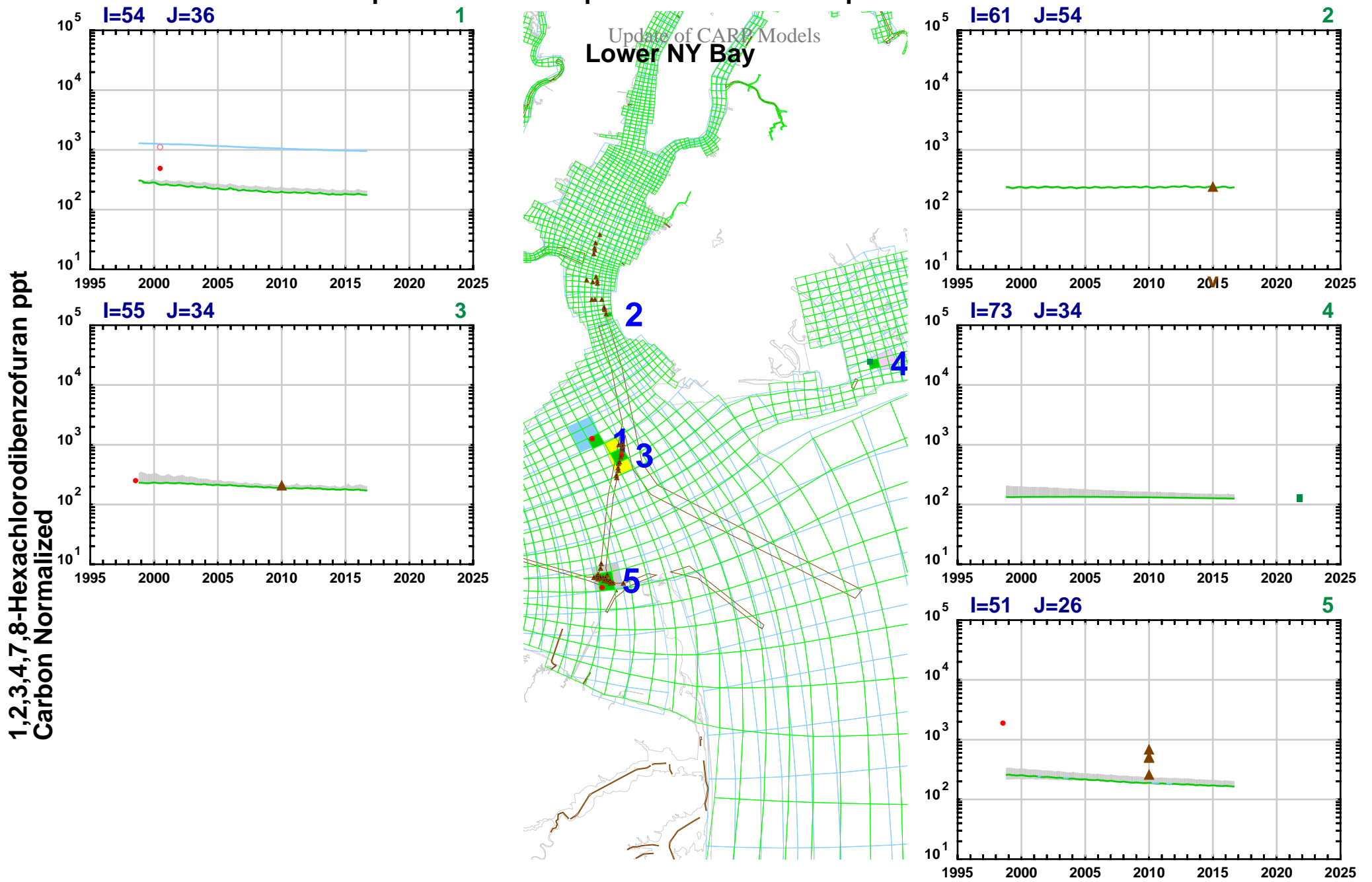
**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data**    **● Off-channel data**    **▲ Dredge data**  
**■ CARP2 In-channel**    **■ CARP2 Off-channel**



# Top 15 cm data comparison with model top 10 cm sediment



RUN18\_S5\_R2

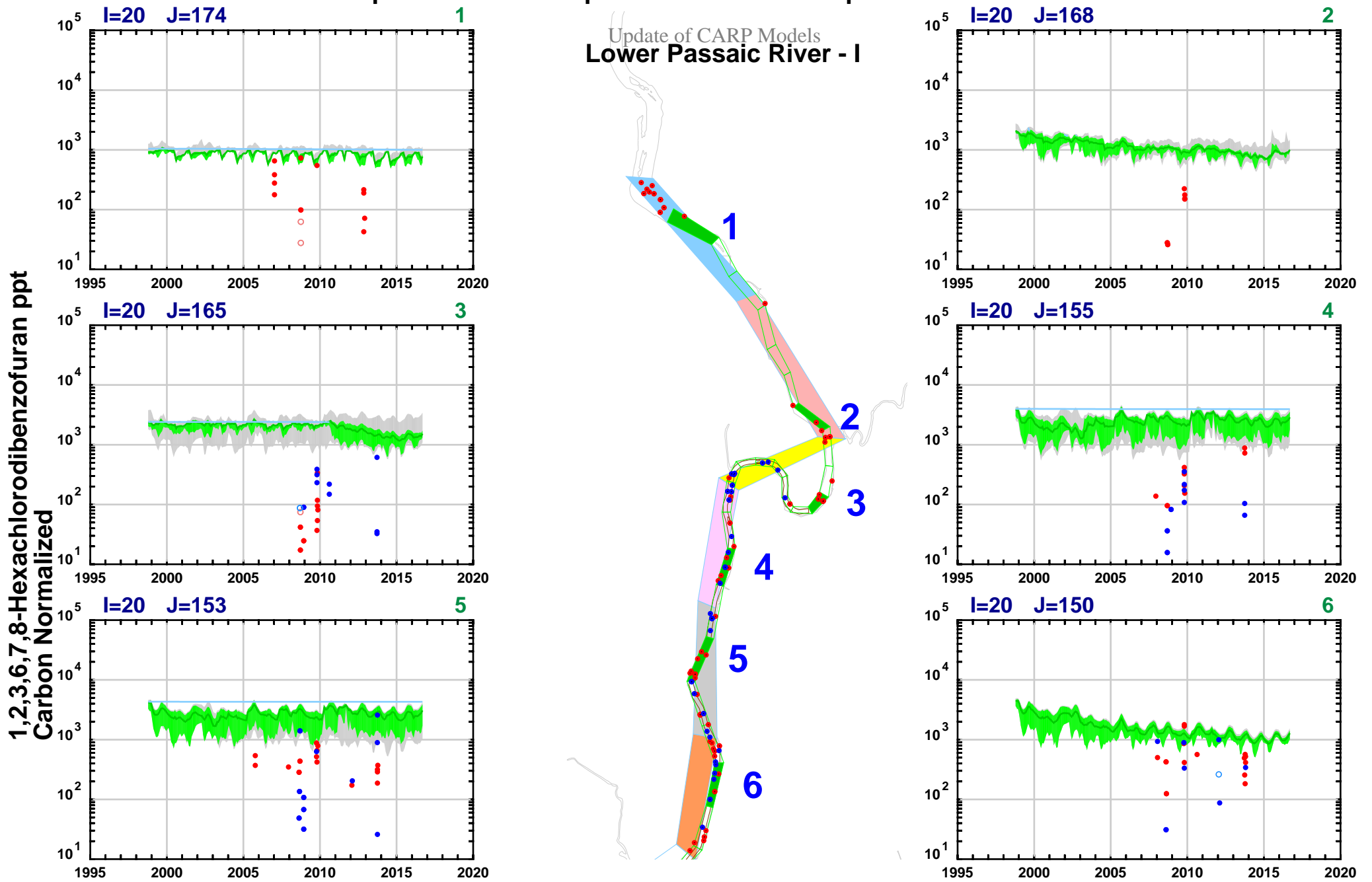
Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Lower Passaic River - I

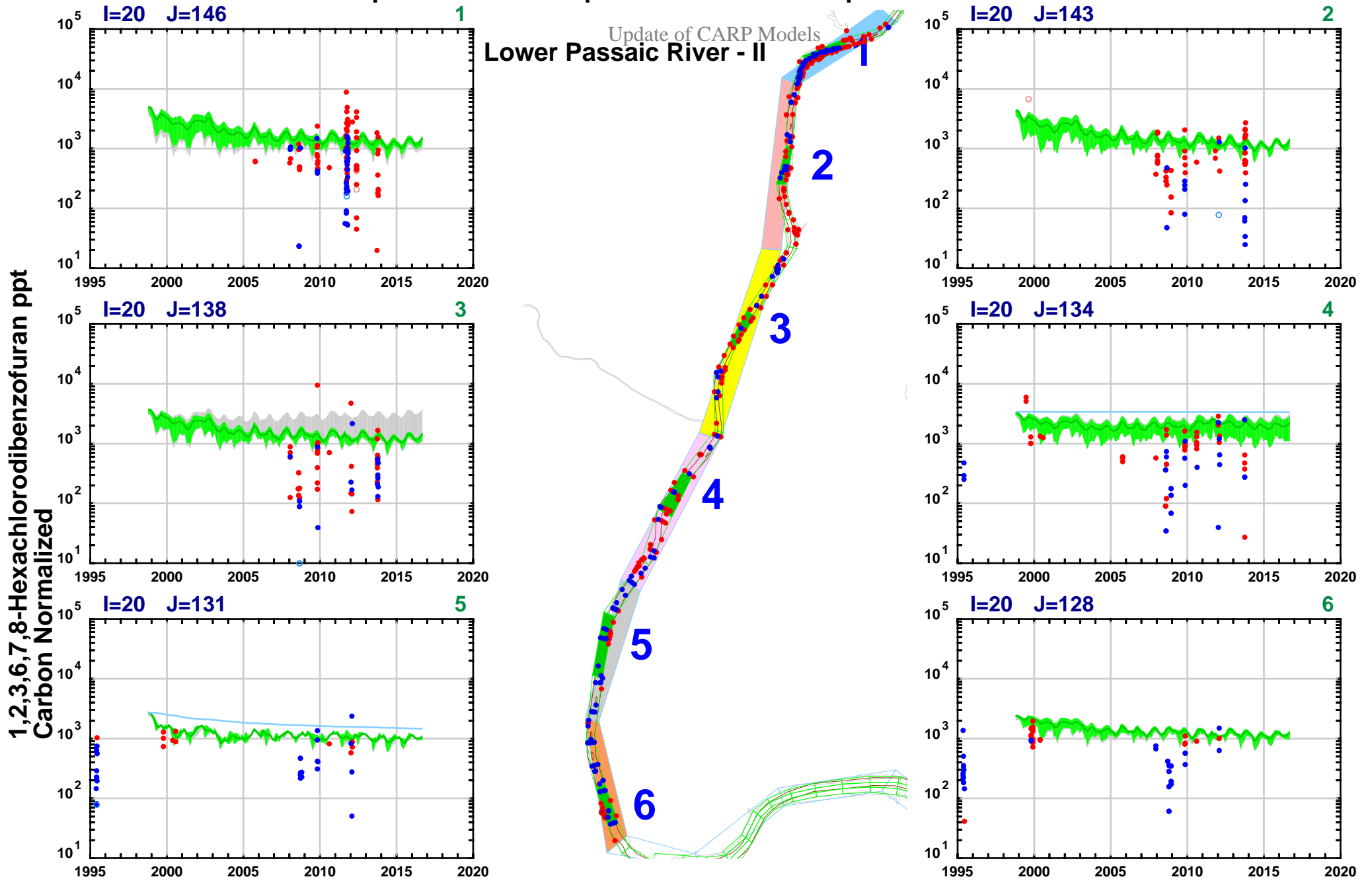


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

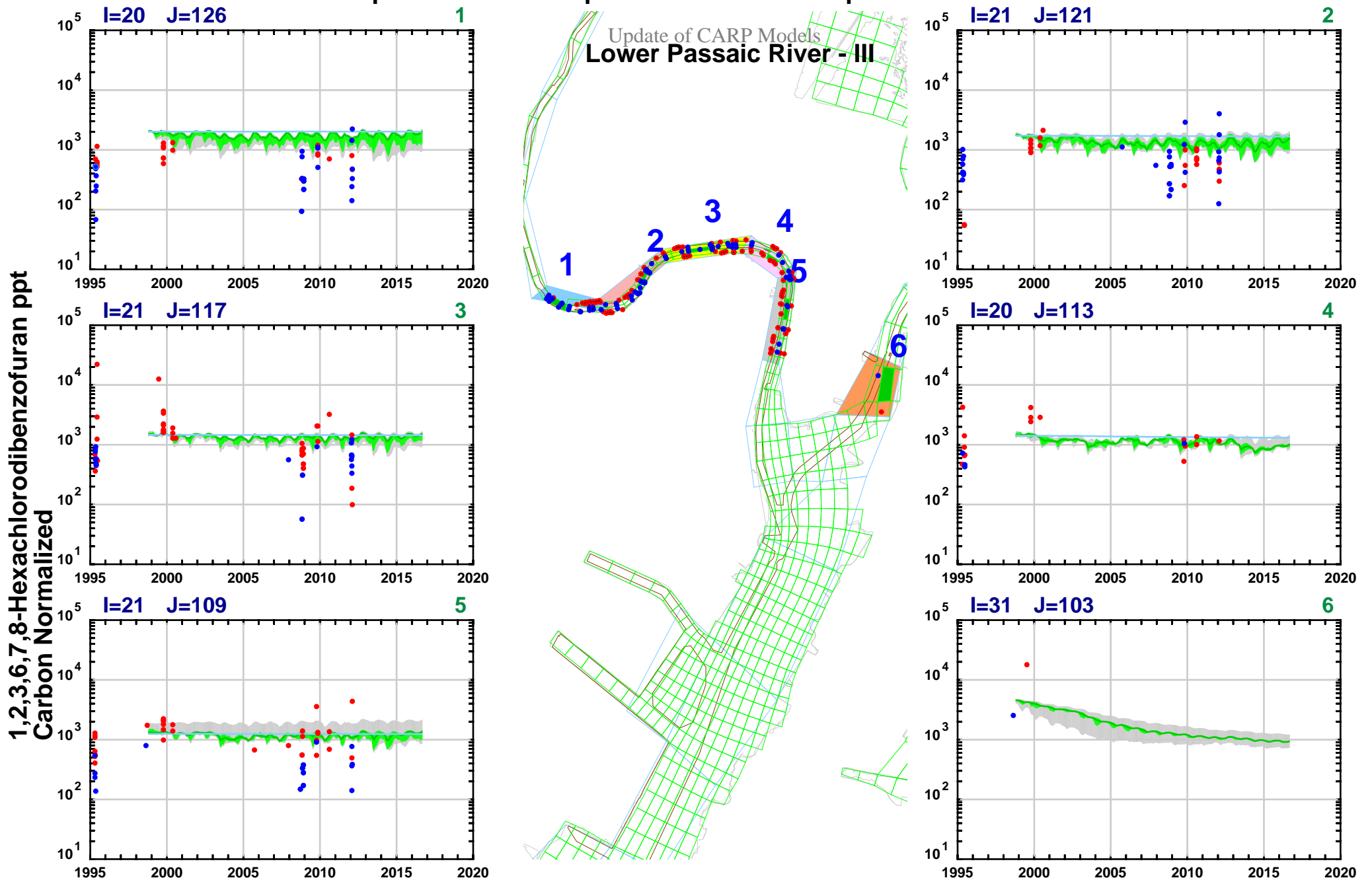
# Top 15 cm data comparison with model top 10 cm sediment



RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

# Top 15 cm data comparison with model top 10 cm sediment

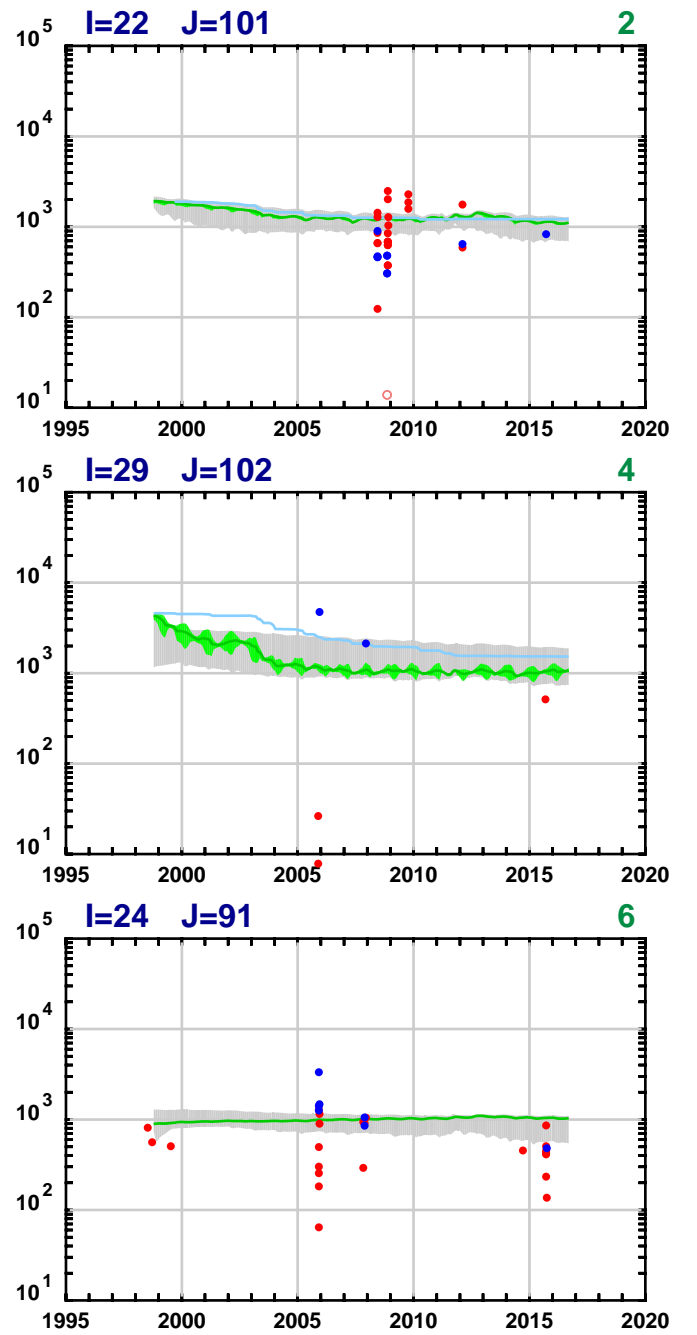
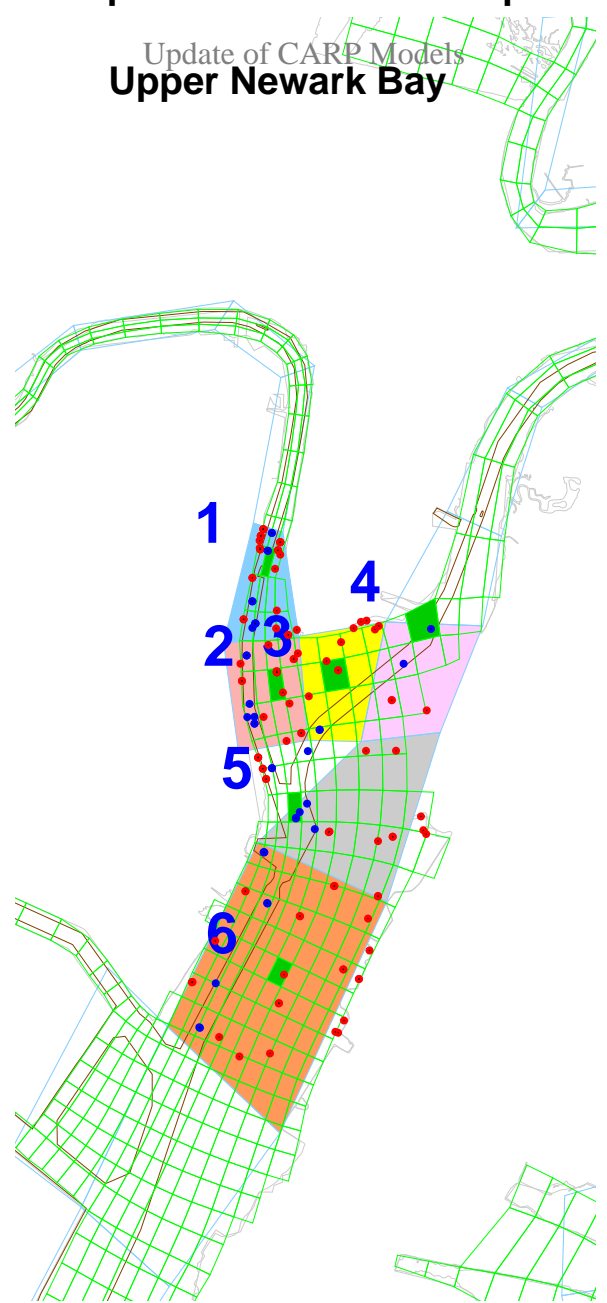
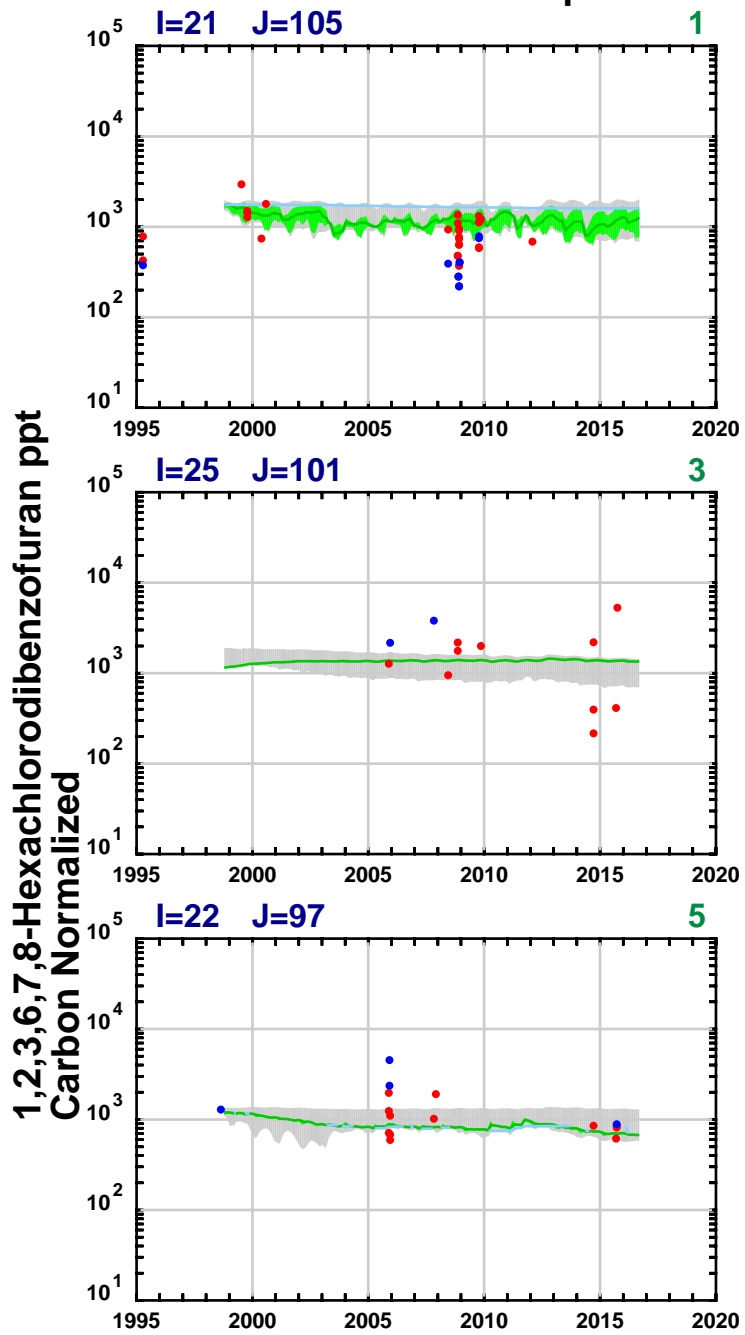


**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data    ● Off-channel data    ▲ Dredge data**  
**■ CARP2 In-channel    ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment



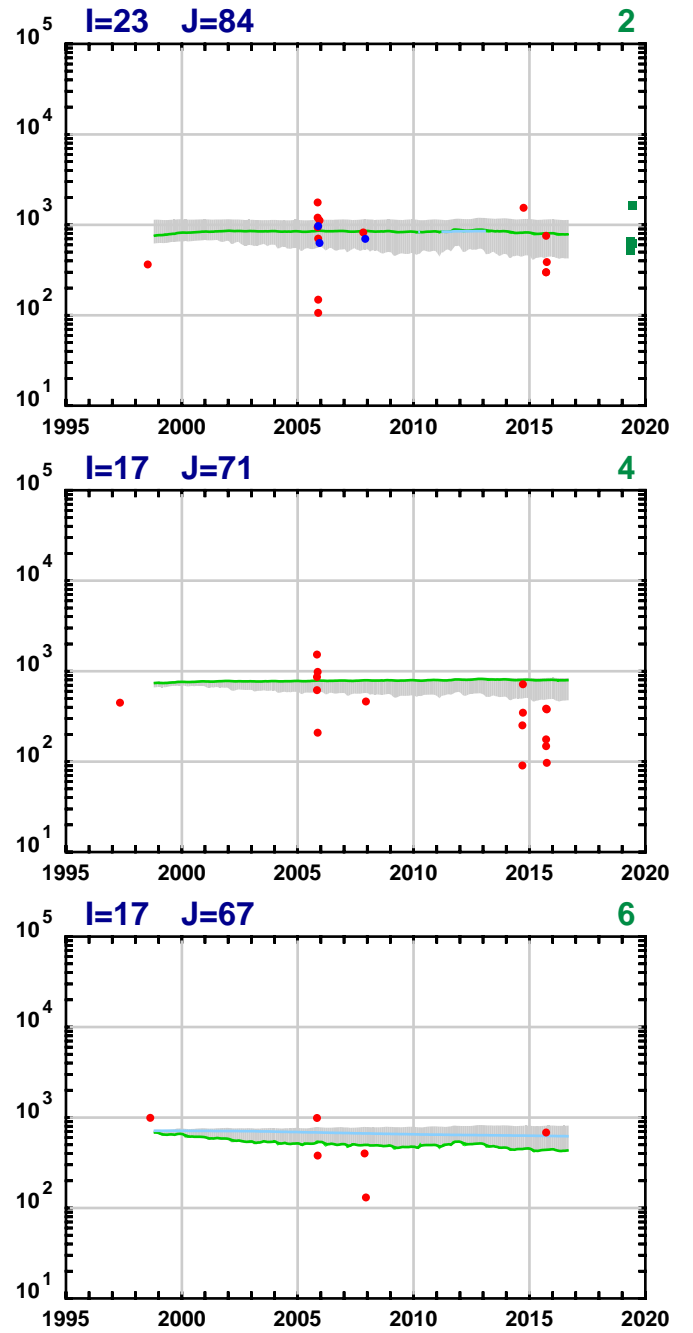
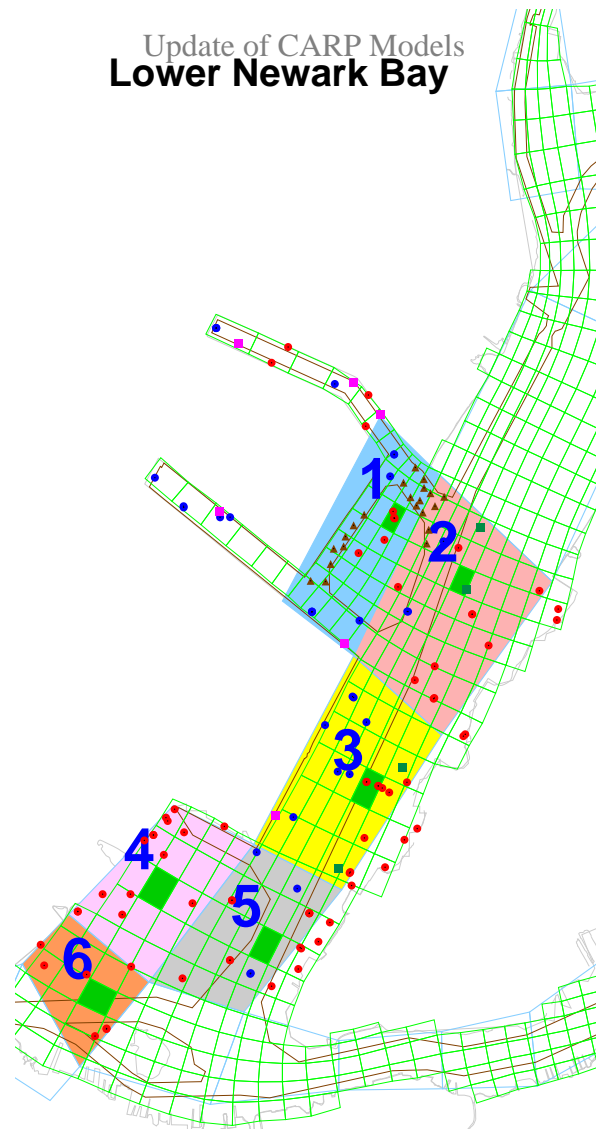
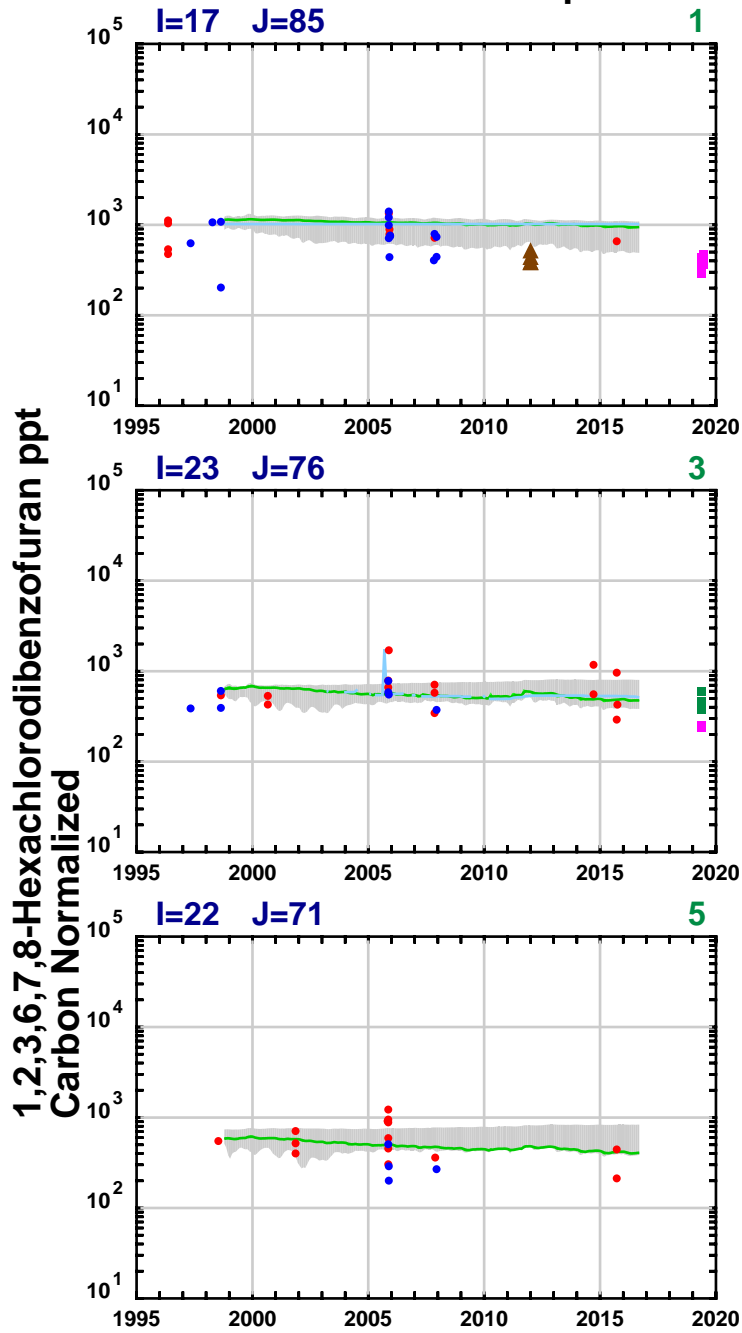
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Lower Newark Bay



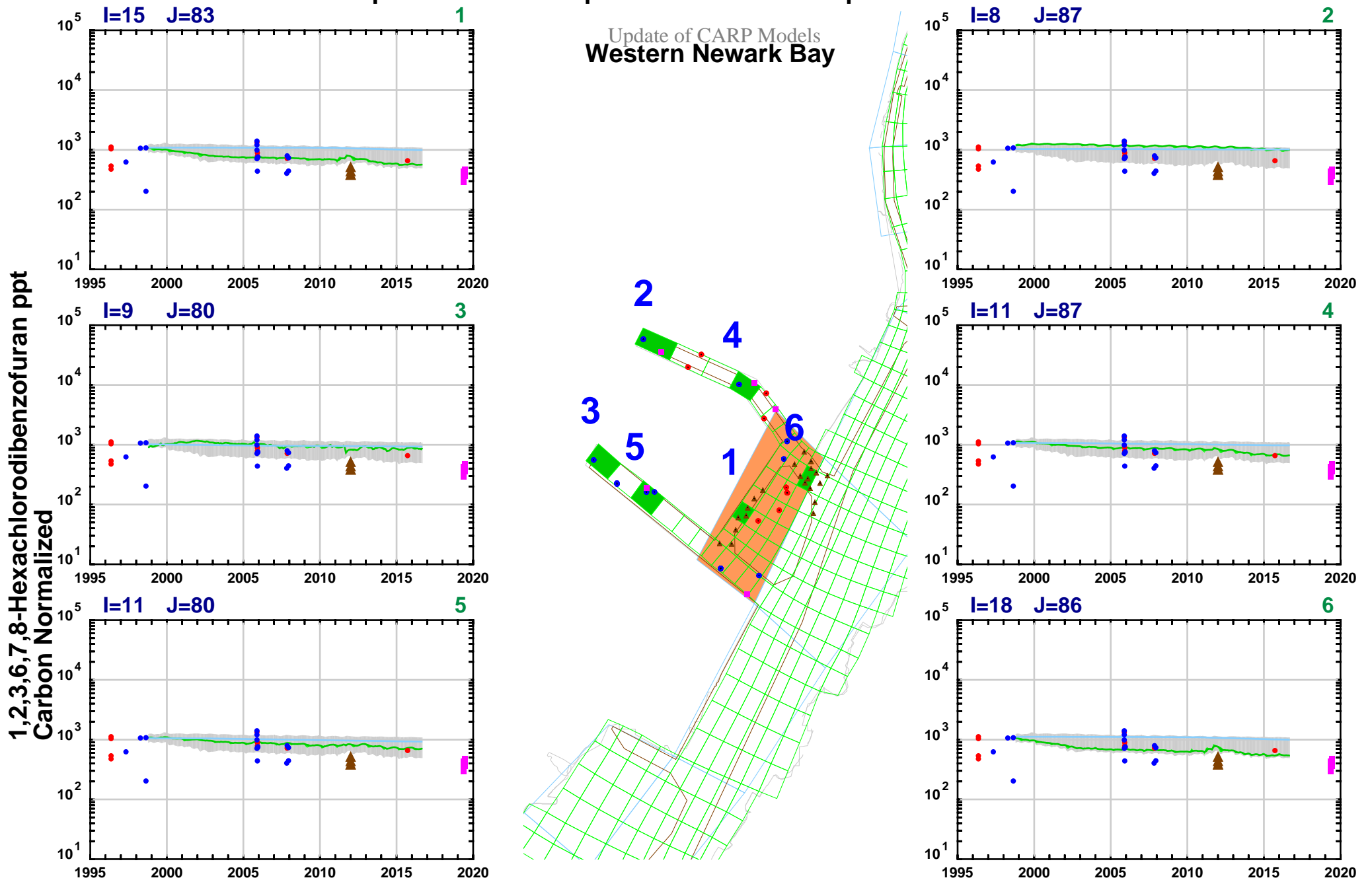
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay



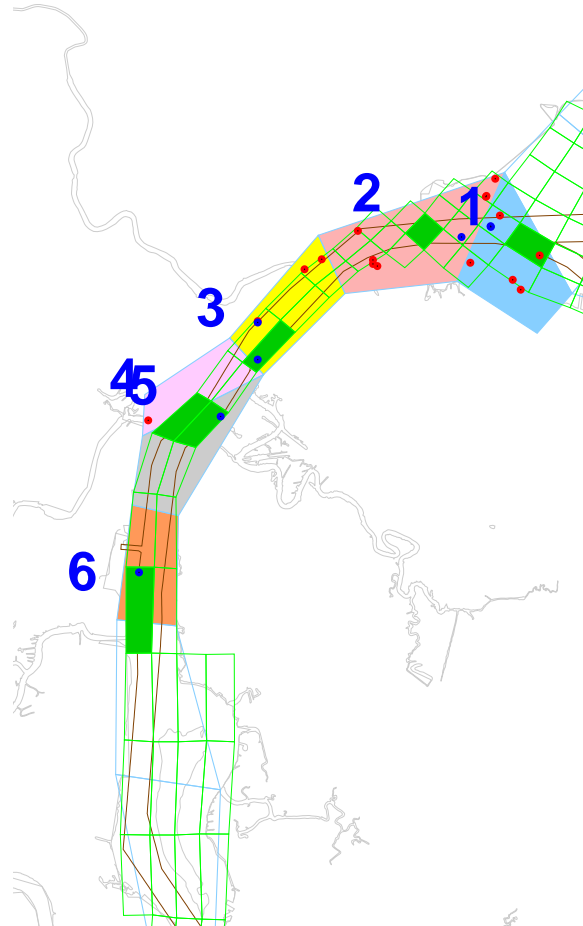
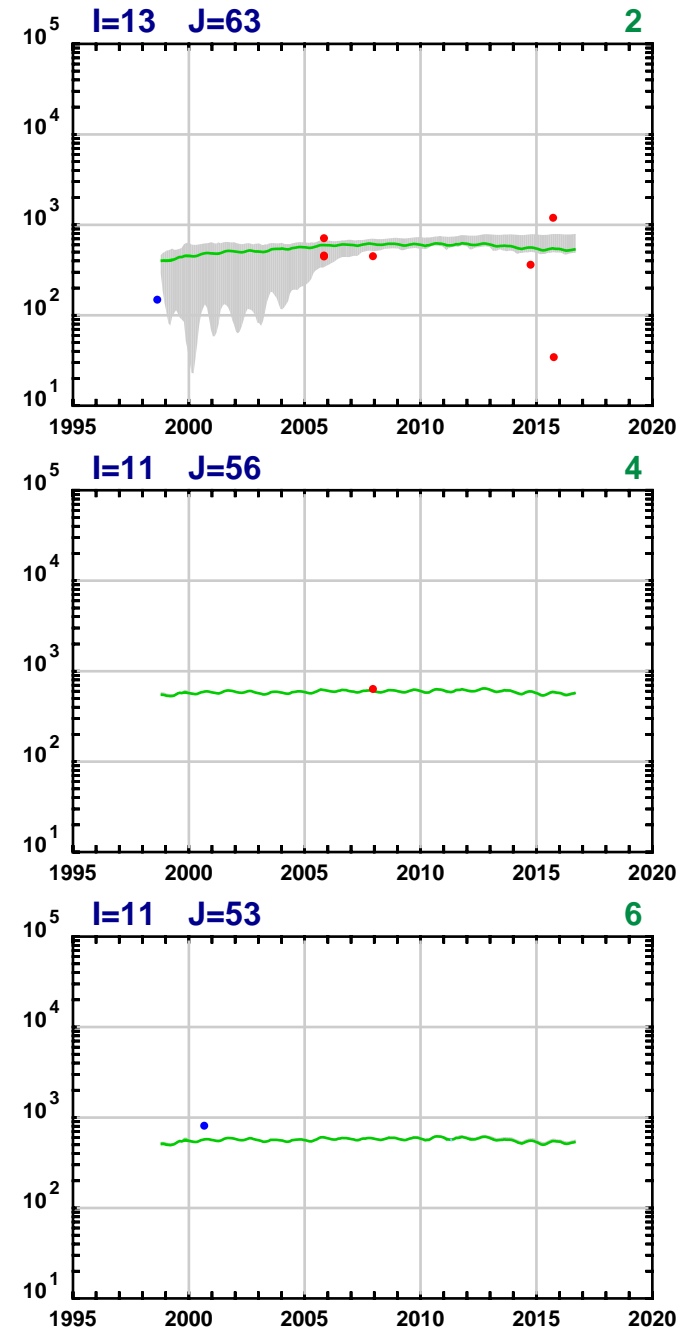
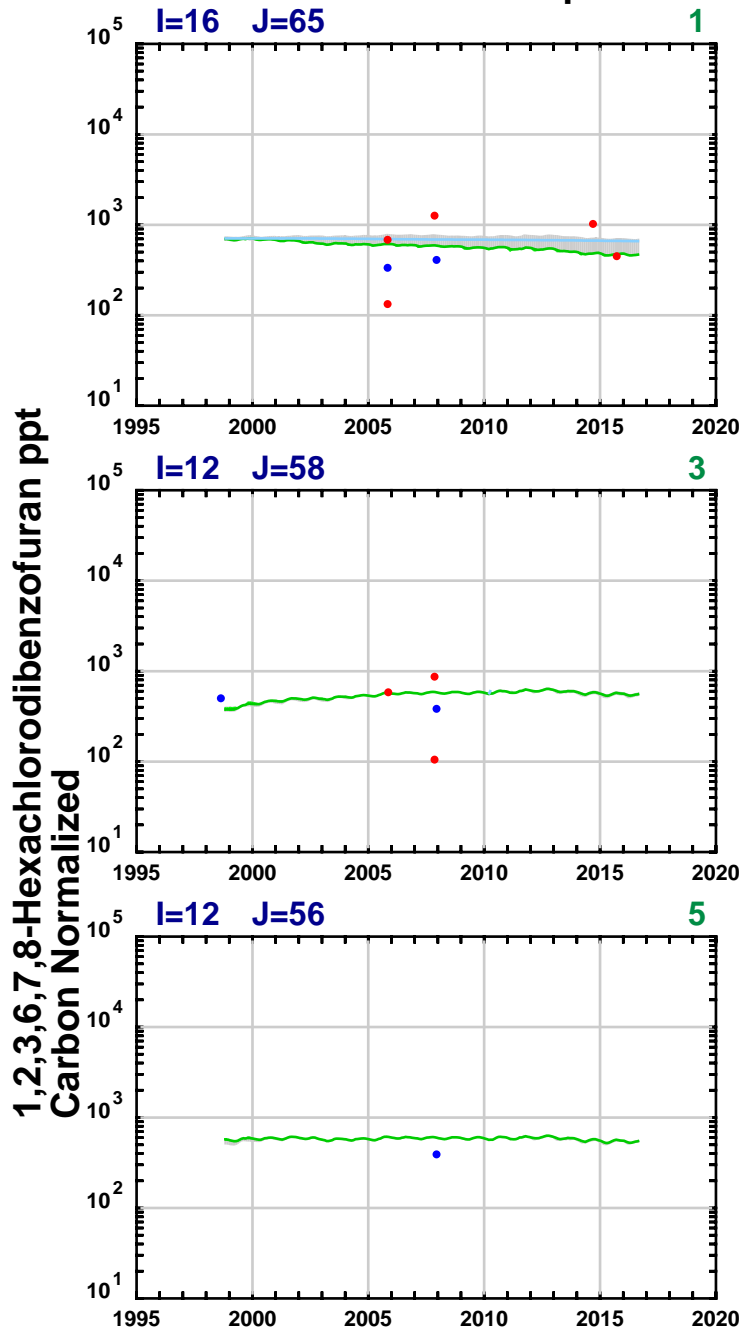
**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1



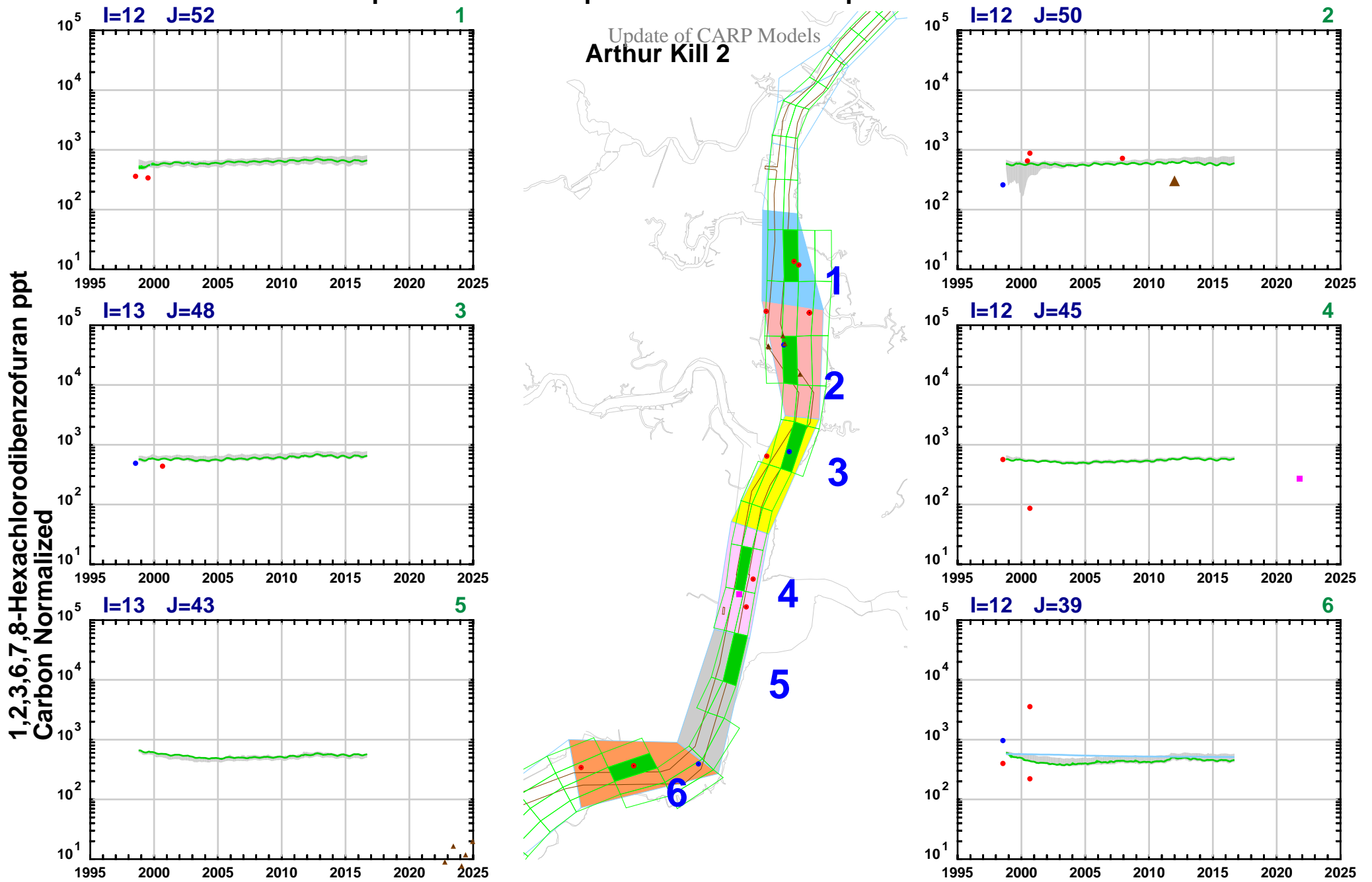
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

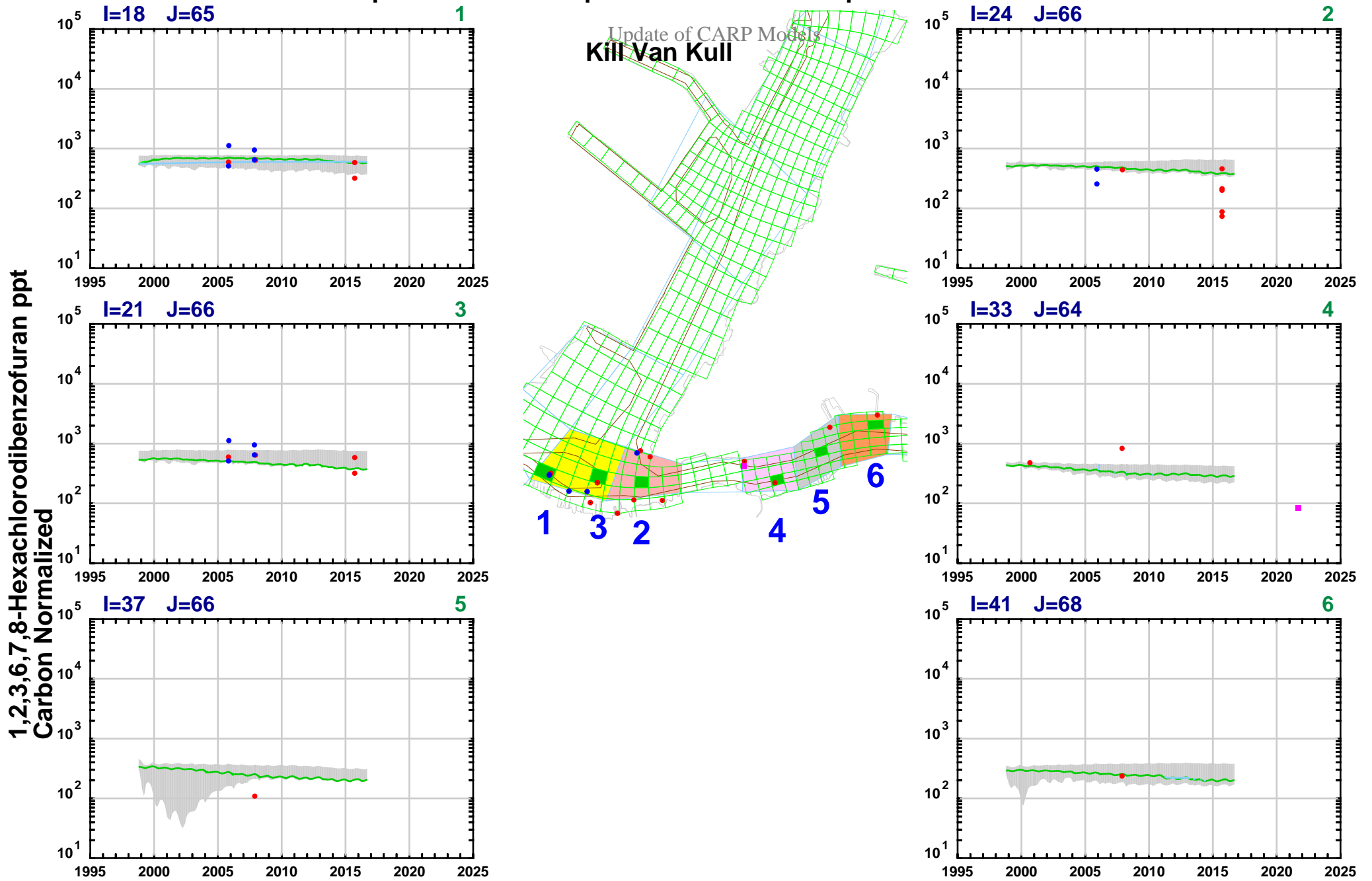


**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data   ● Off-channel data   ▲ Dredge data**  
**■ CARP2 In-channel   ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

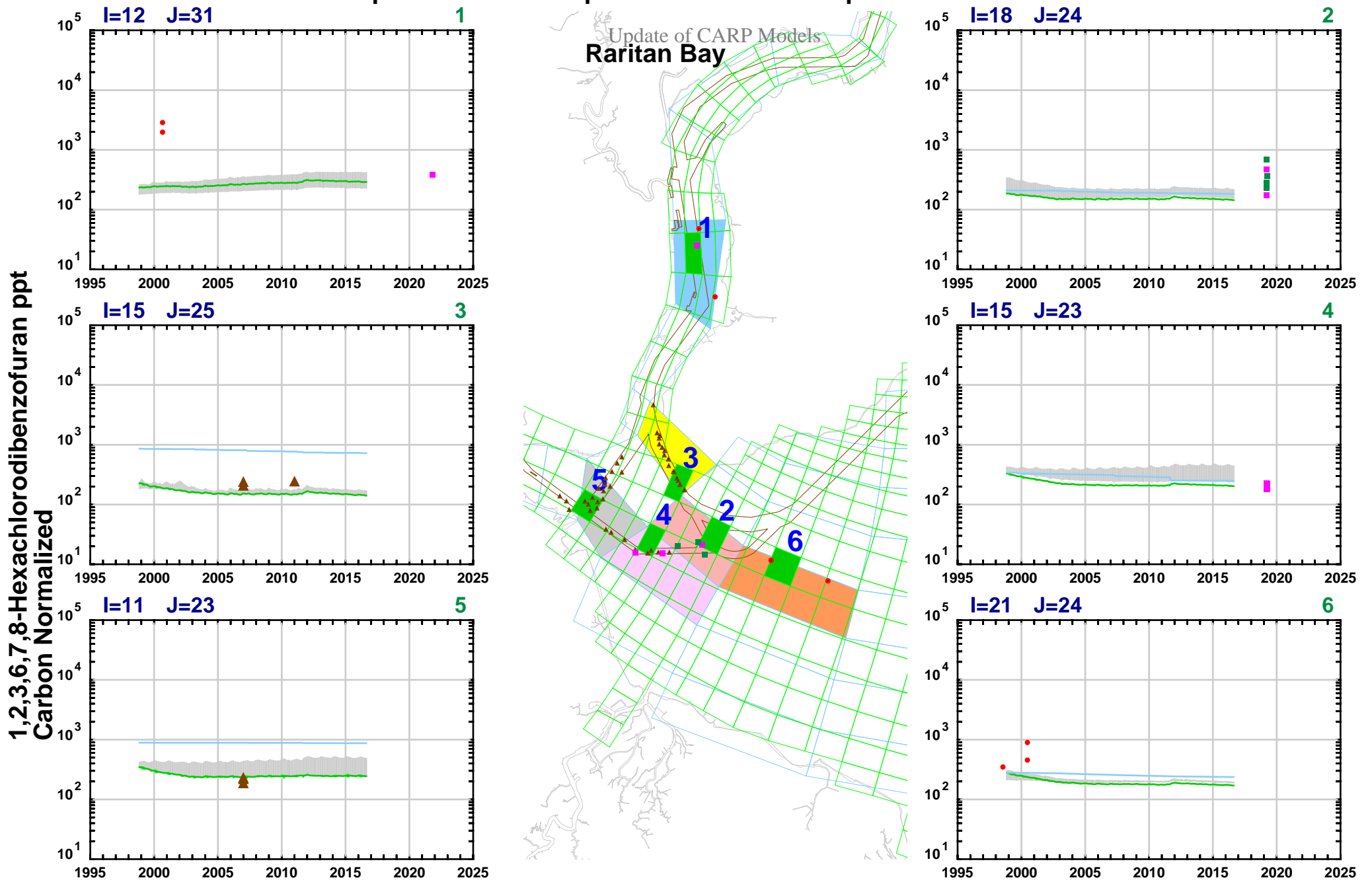


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

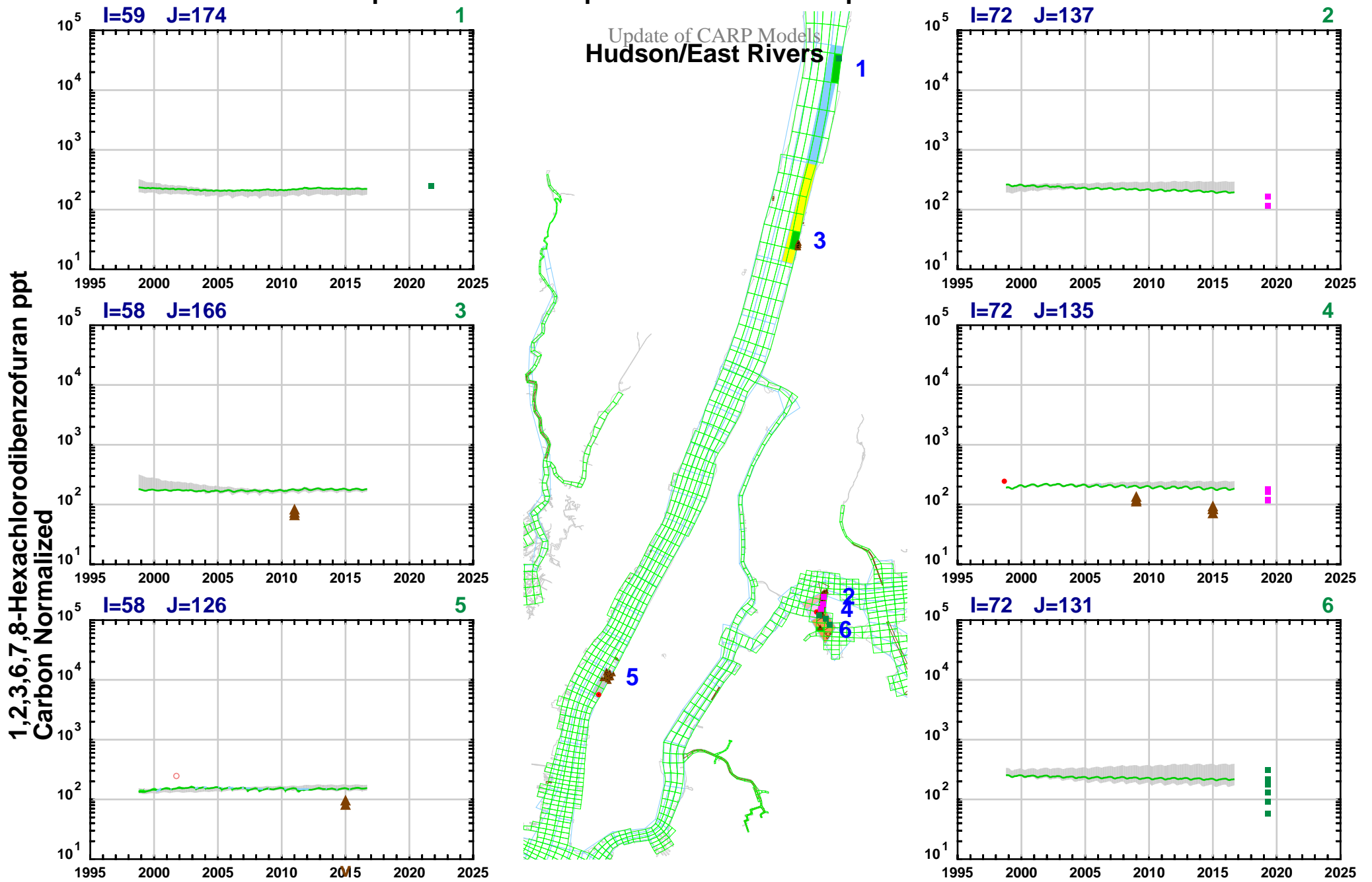


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

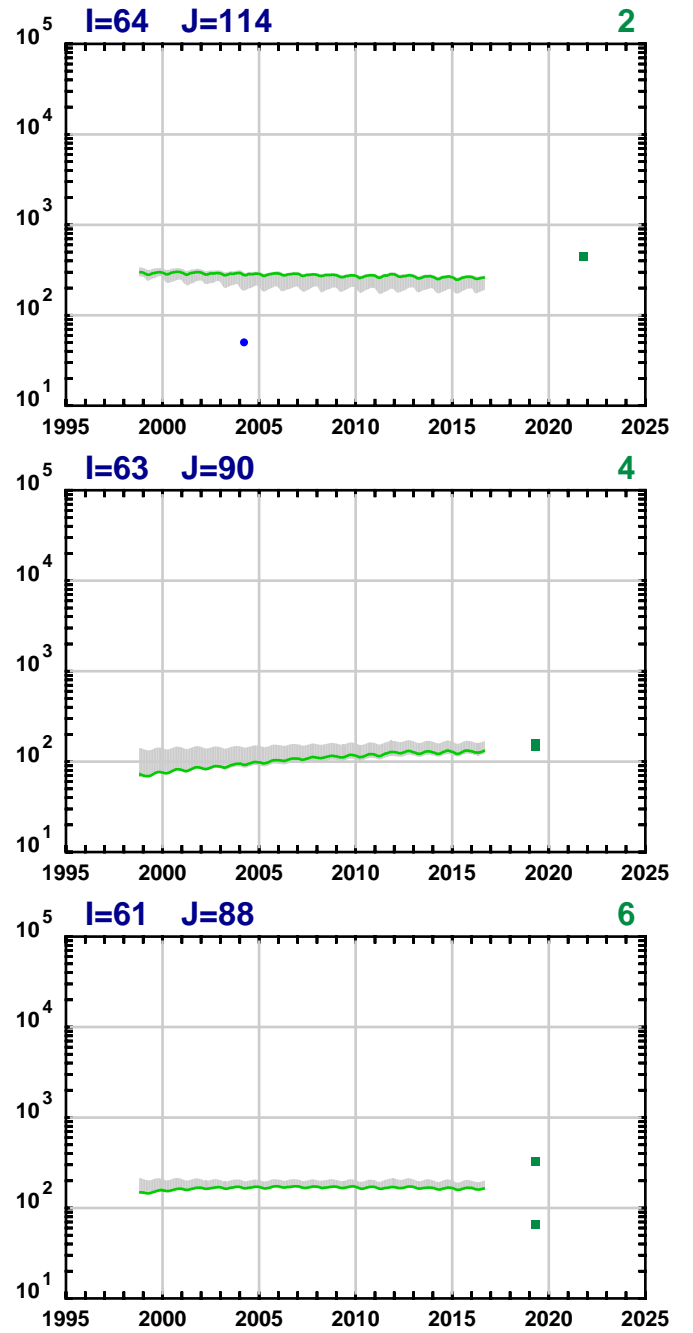
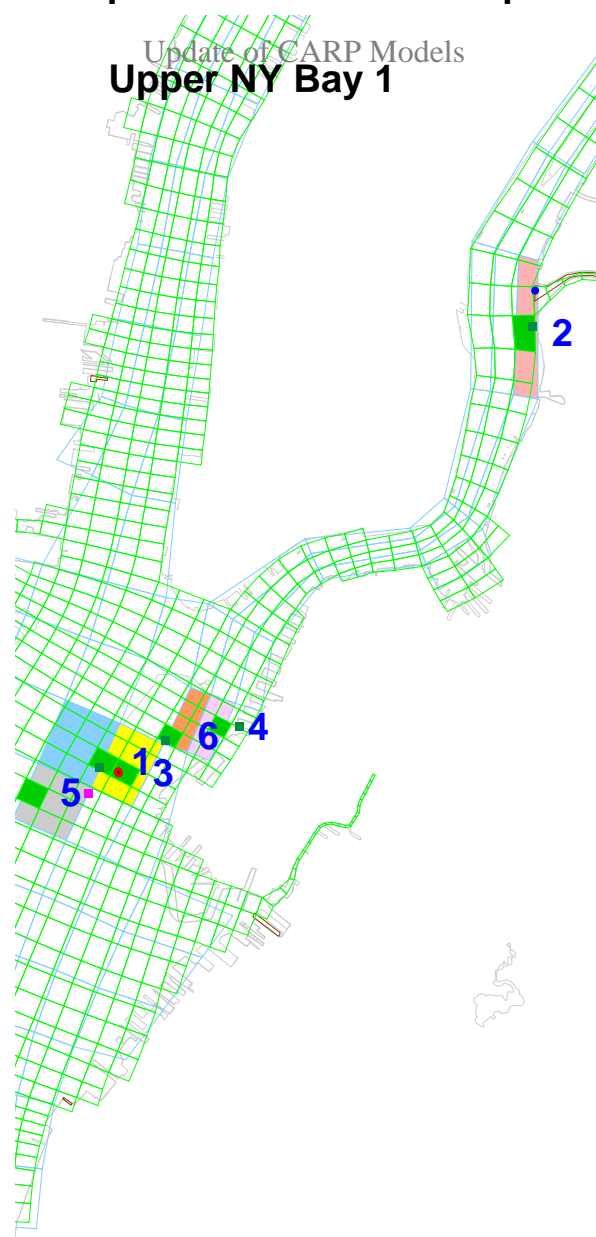
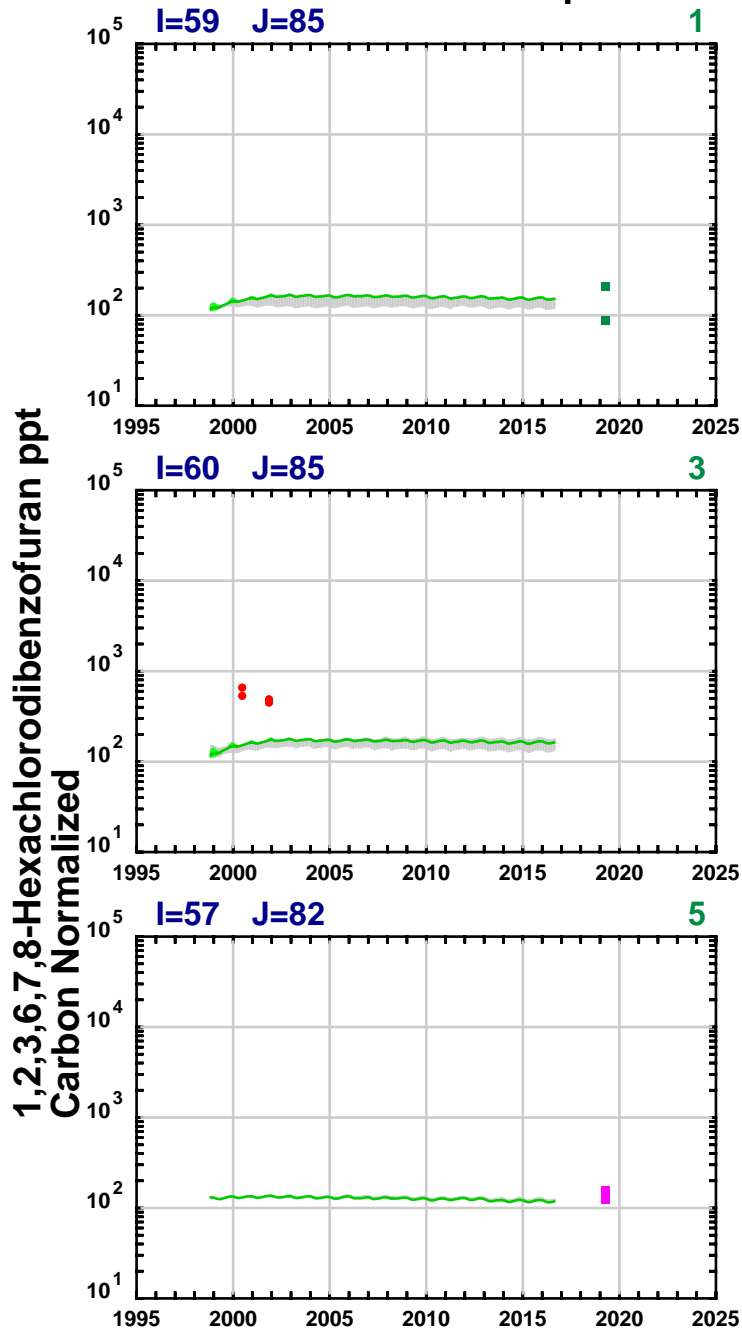


**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data   ● Off-channel data   ▲ Dredge data**  
**■ CARP2 In-channel   ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

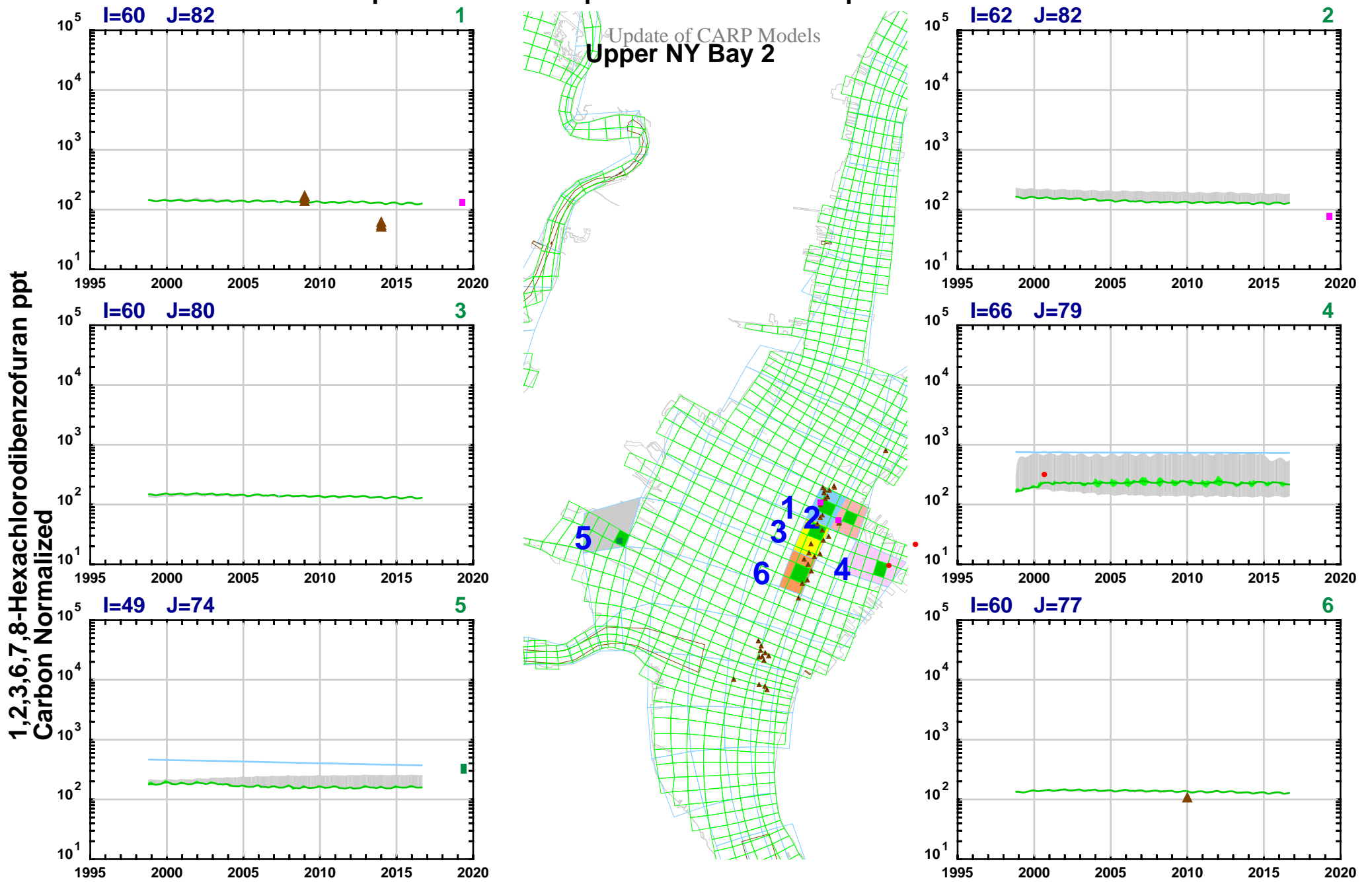


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



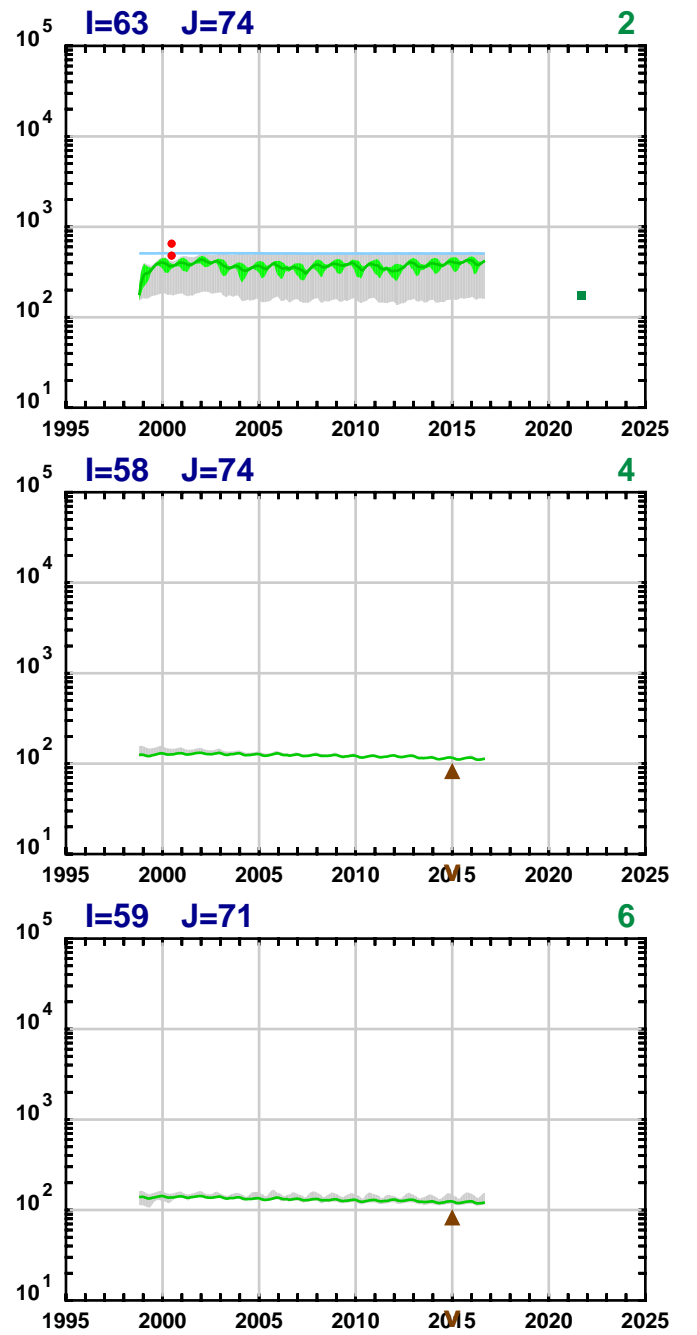
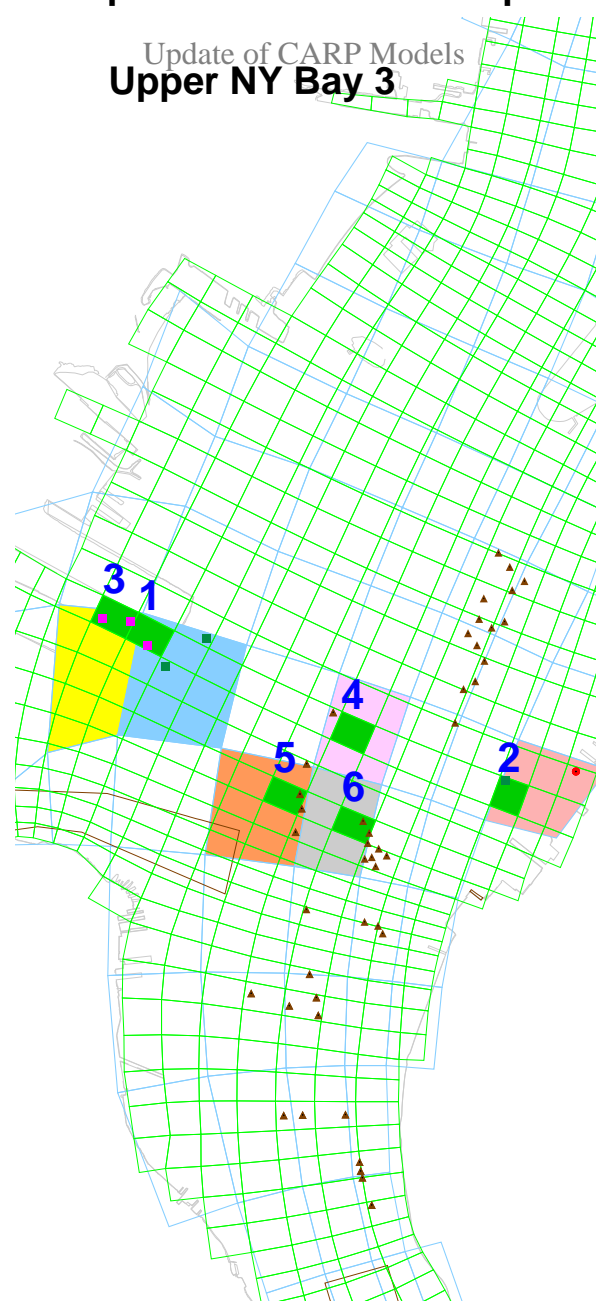
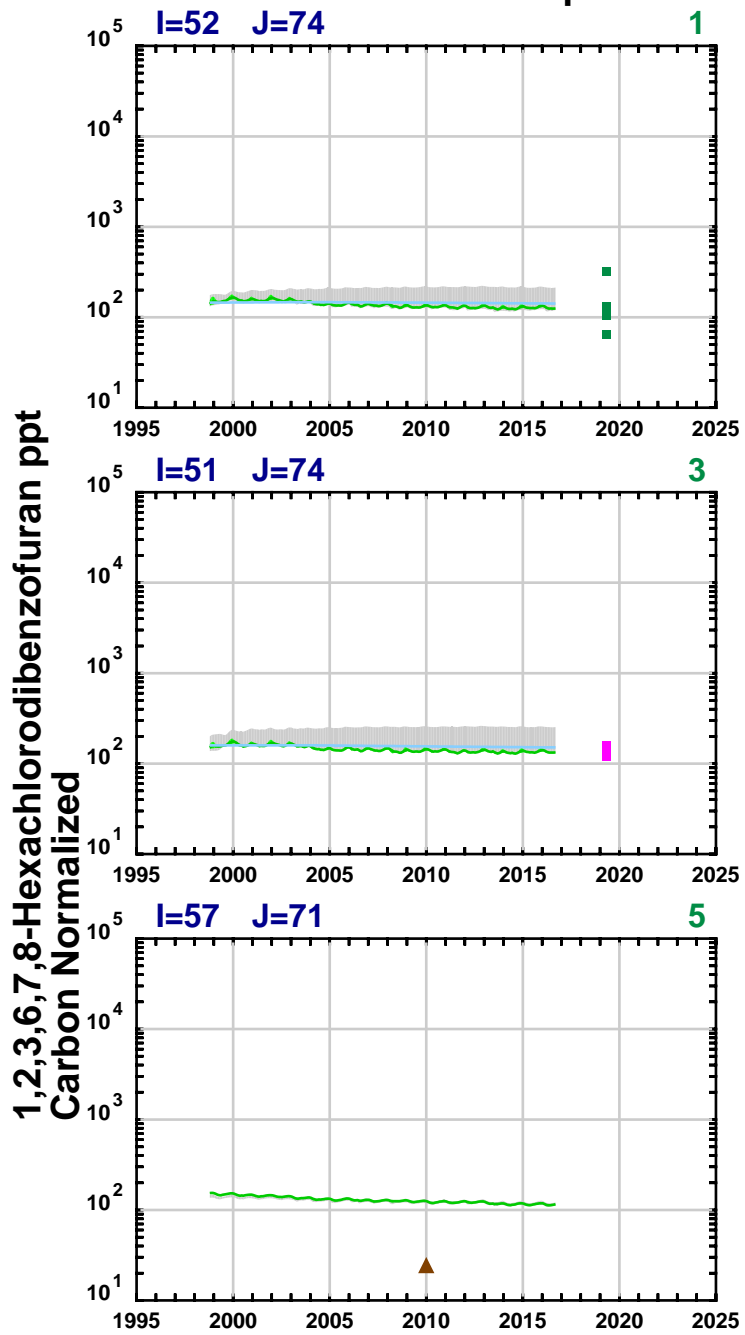
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



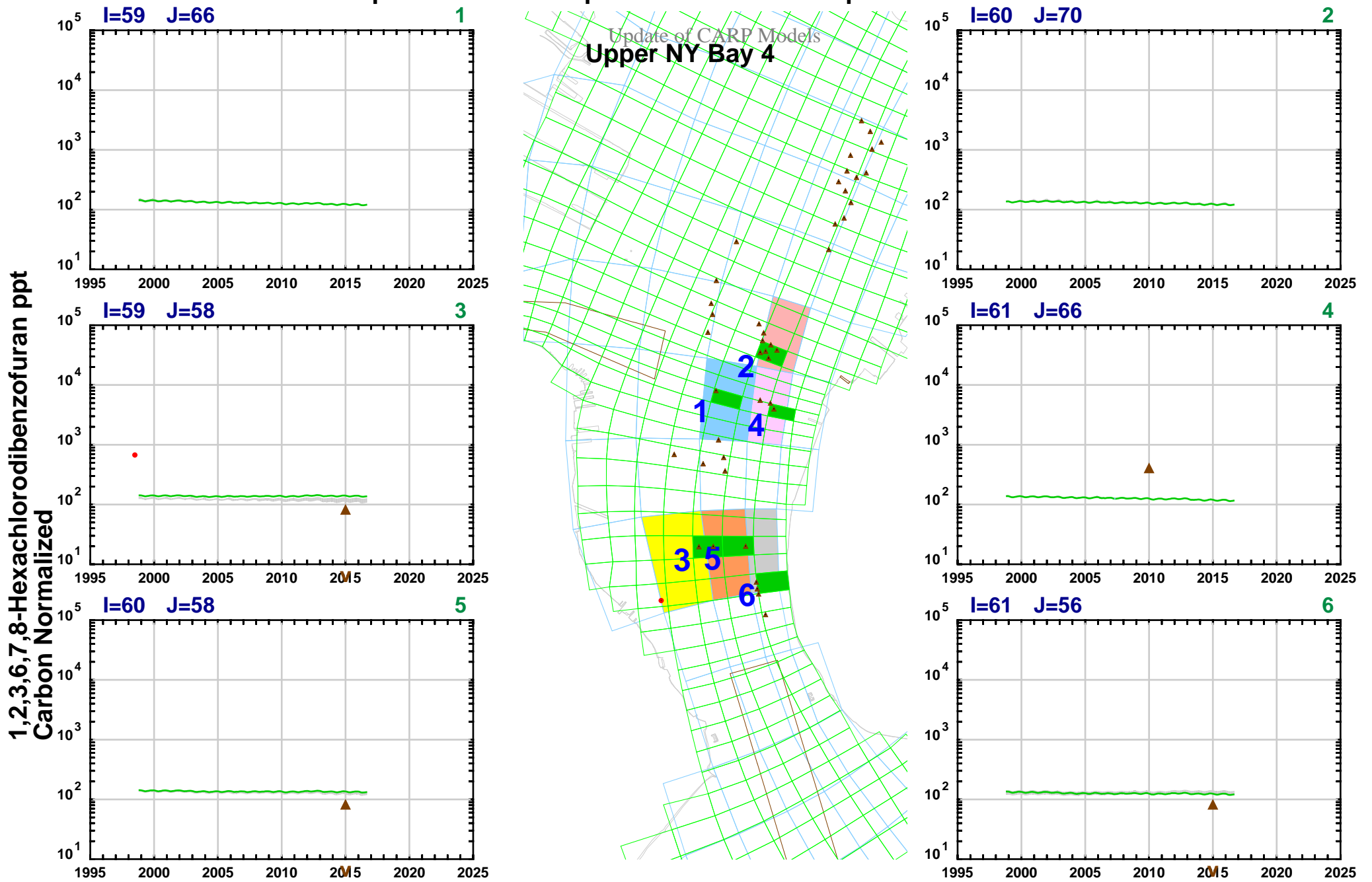
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

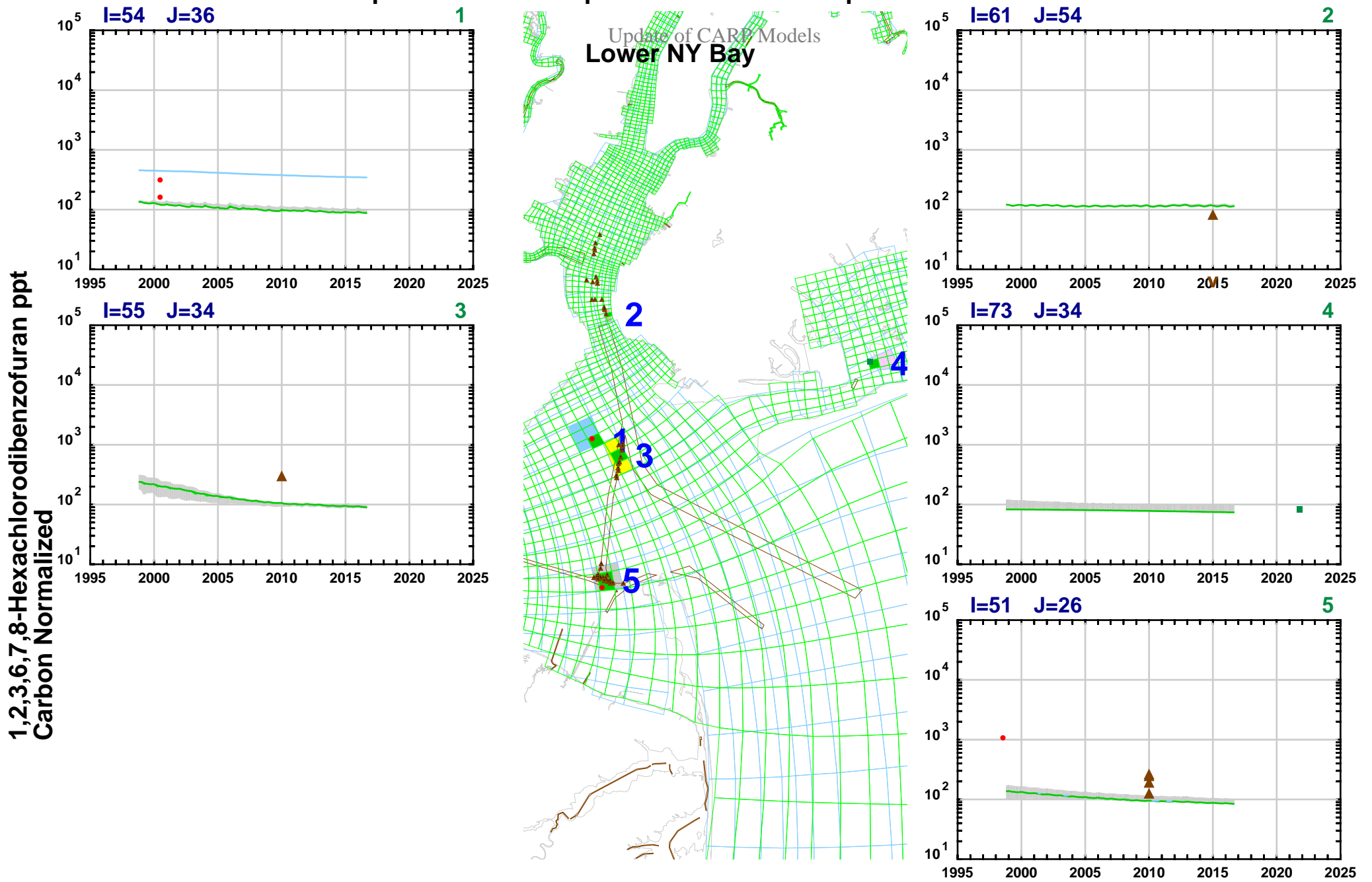


**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data ● Off-channel data ▲ Dredge data**  
**■ CARP2 In-channel ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment



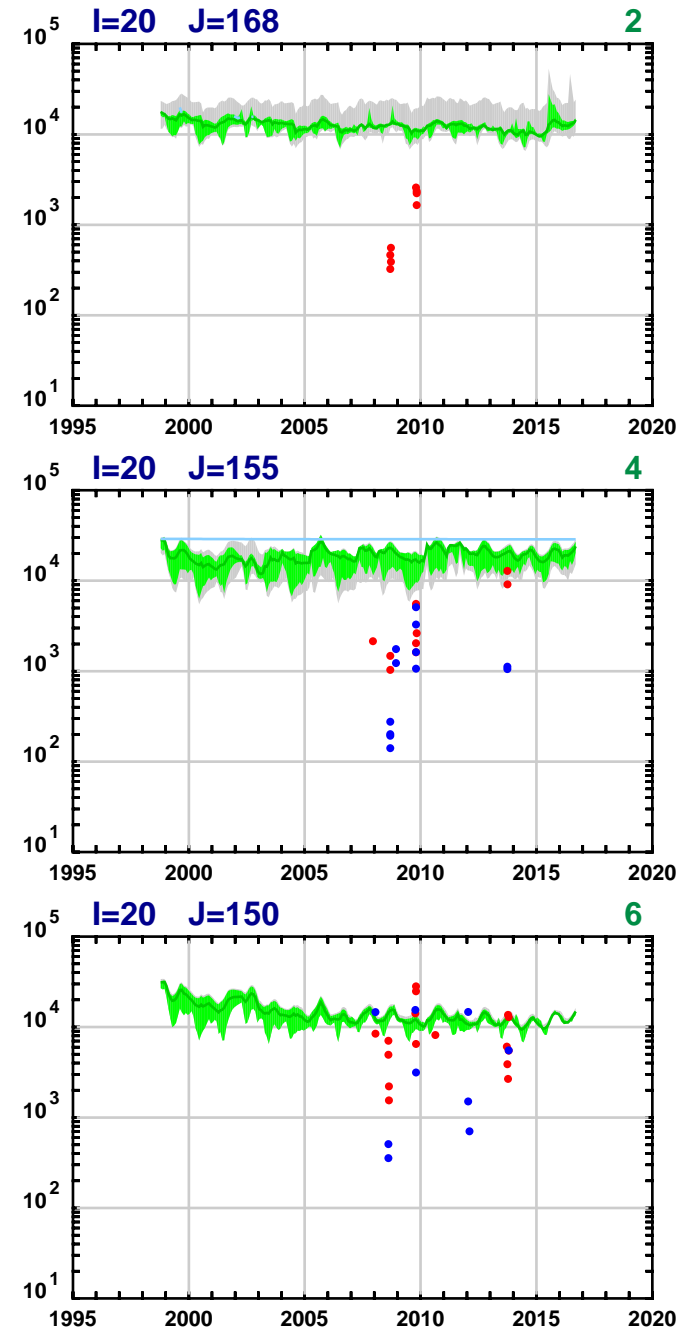
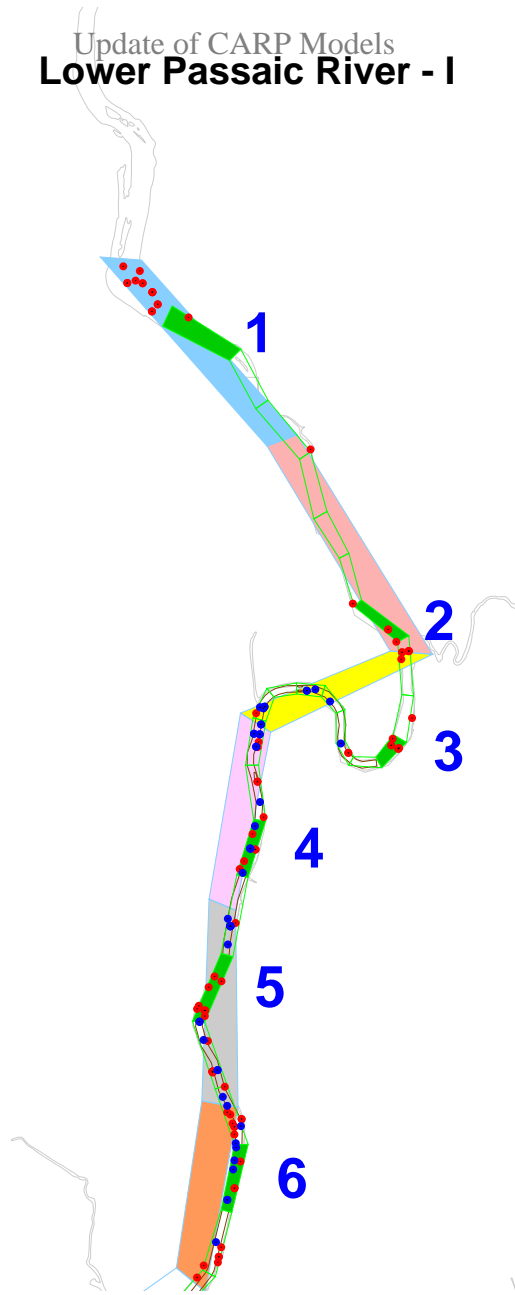
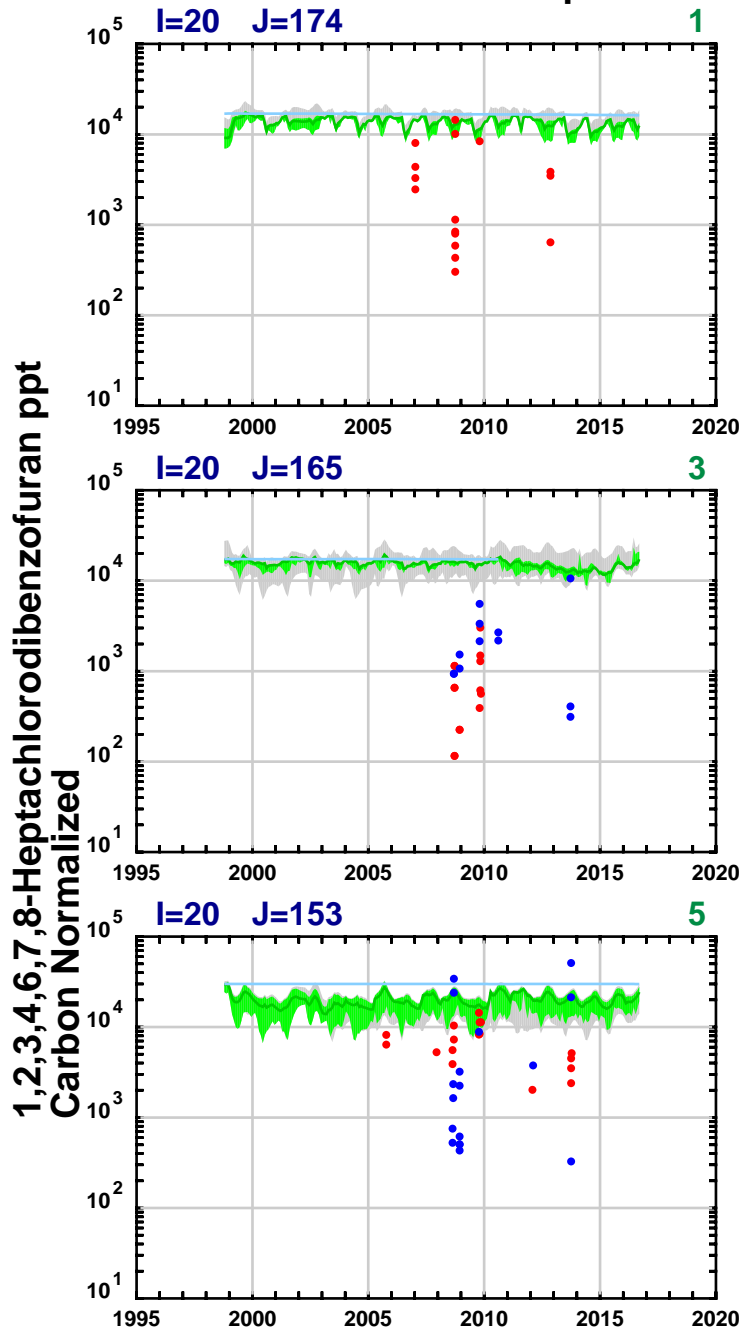
**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data ● Off-channel data ▲ Dredge data**  
**■ CARP2 In-channel ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

## Update of CARP Models Lower Passaic River - I

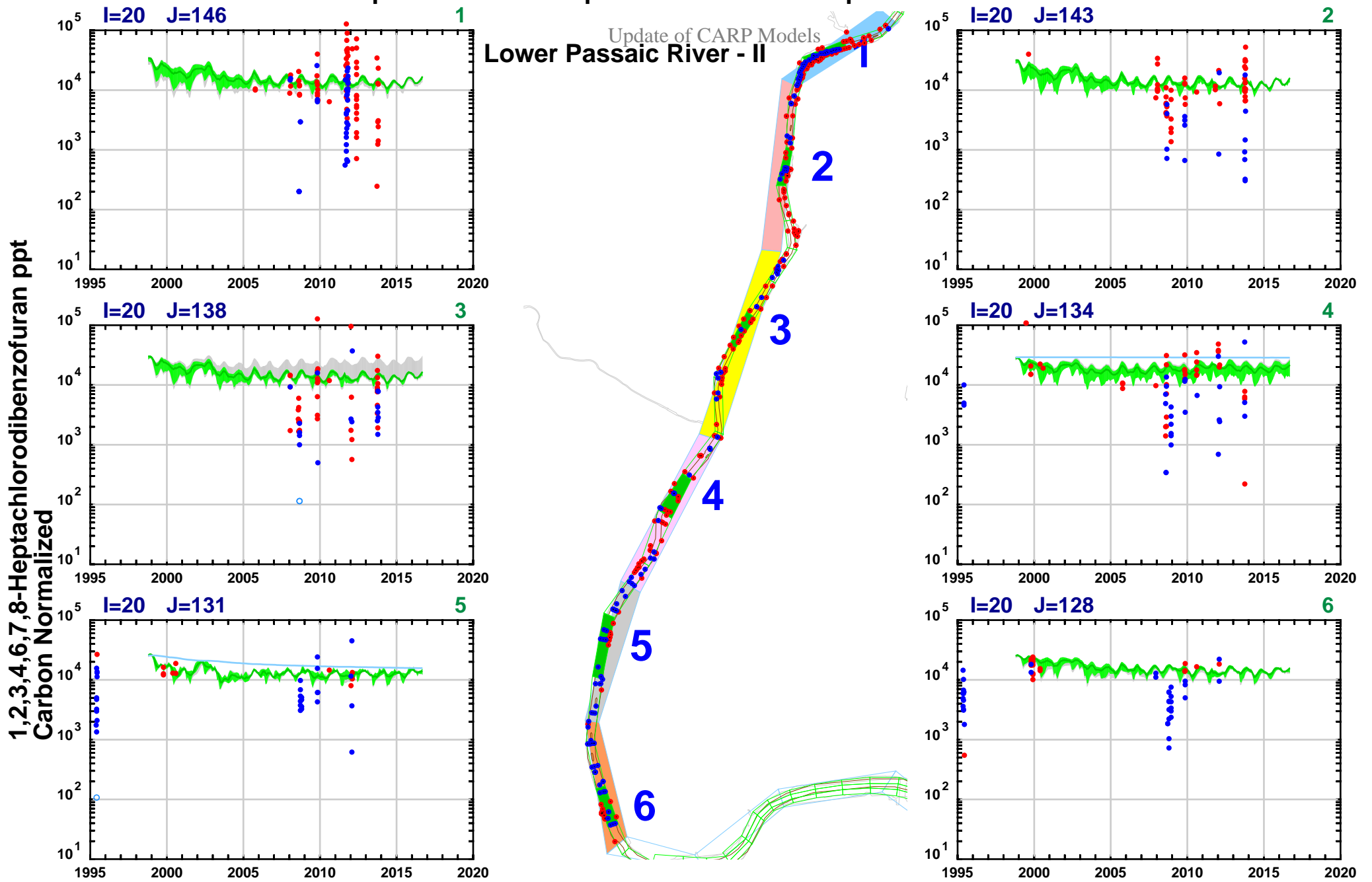


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

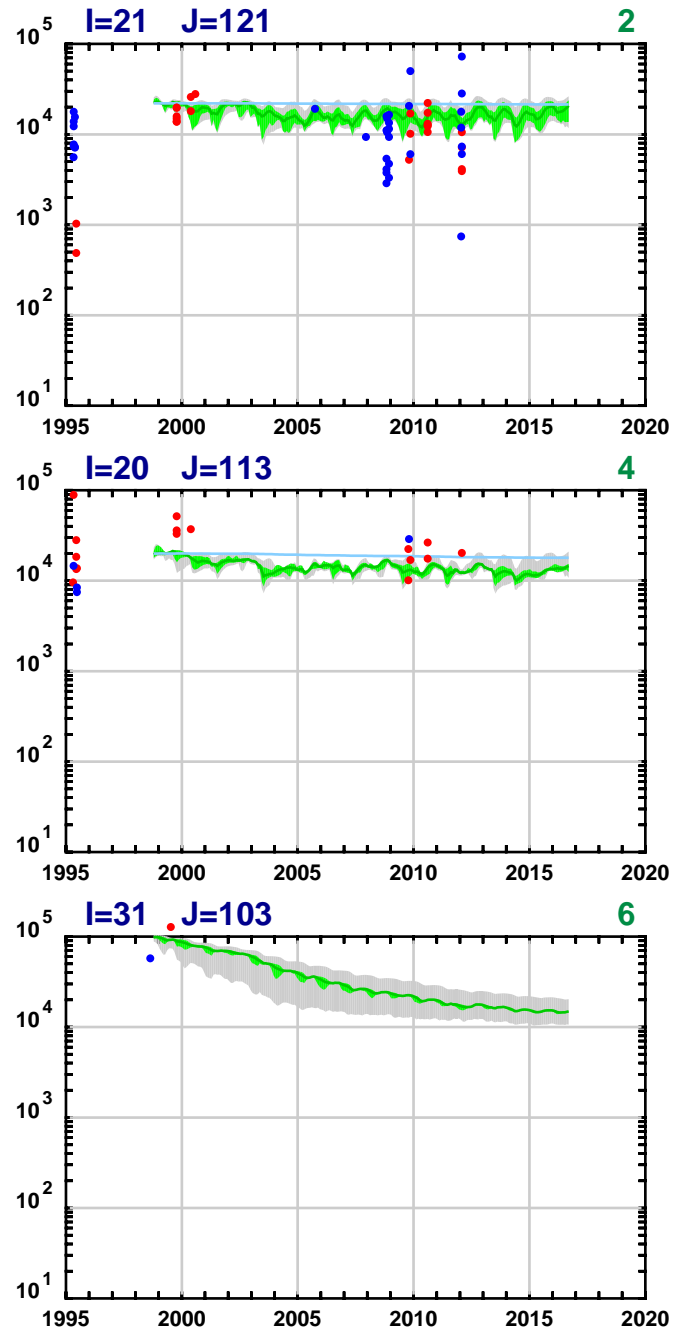
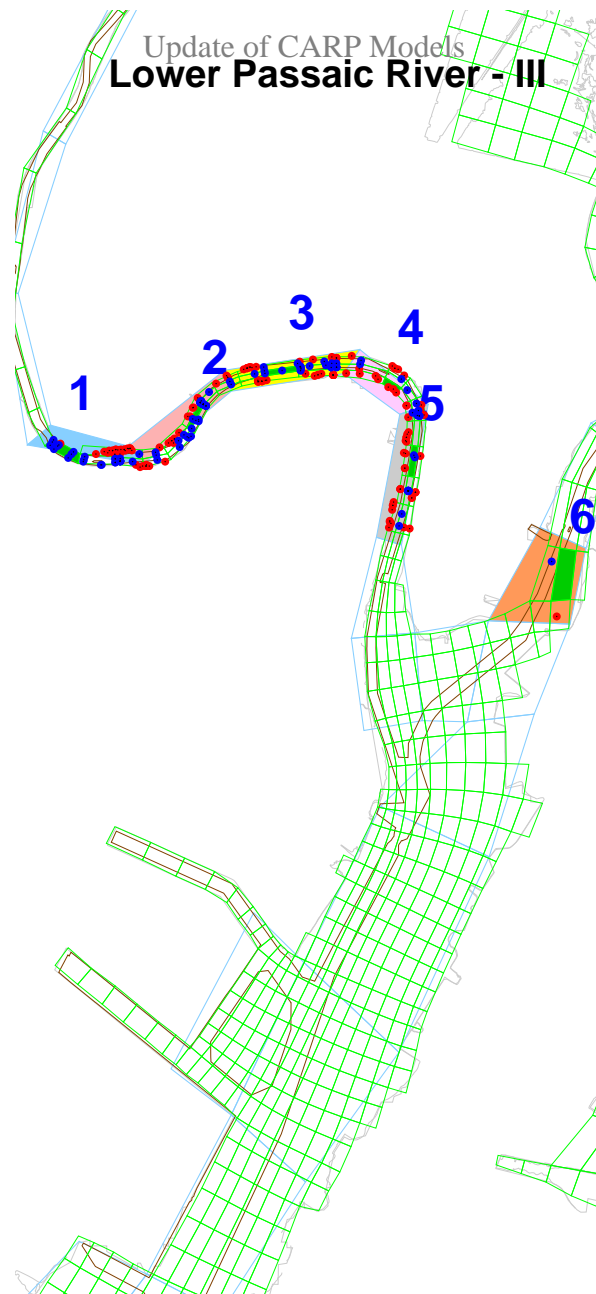
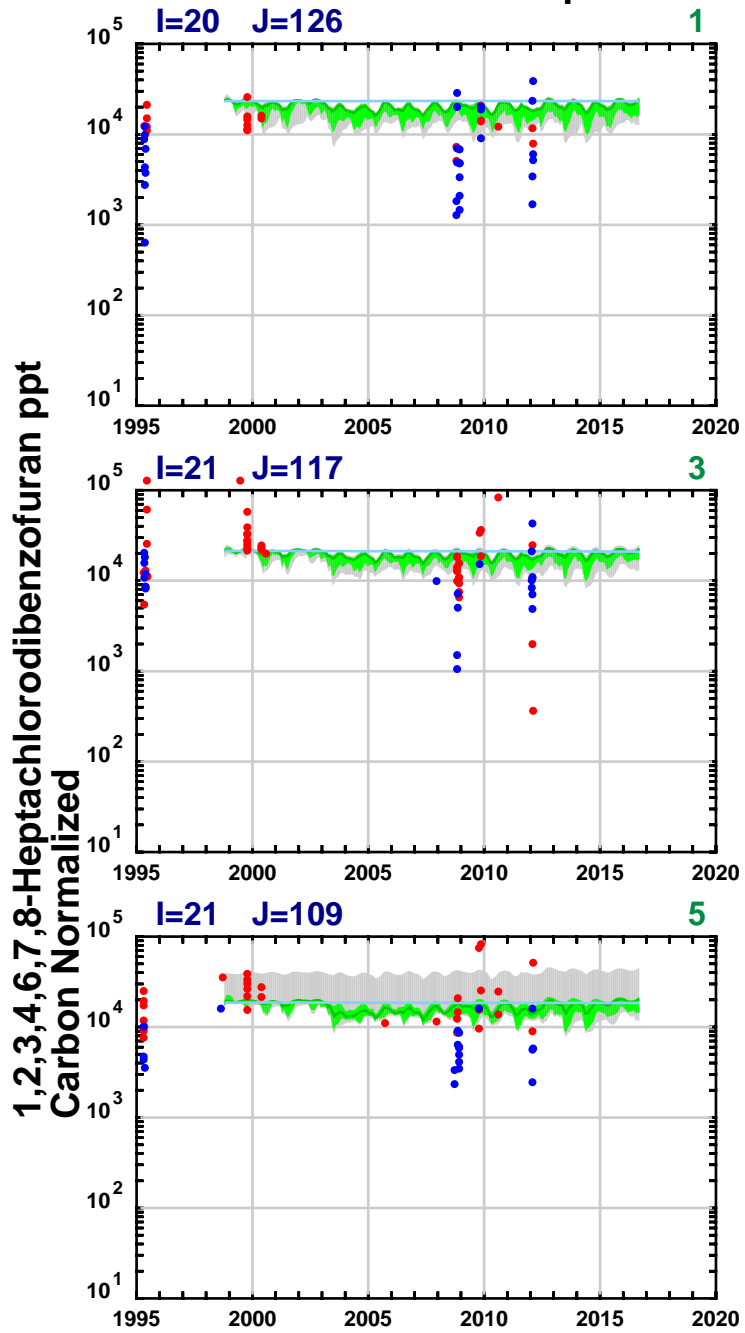


**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

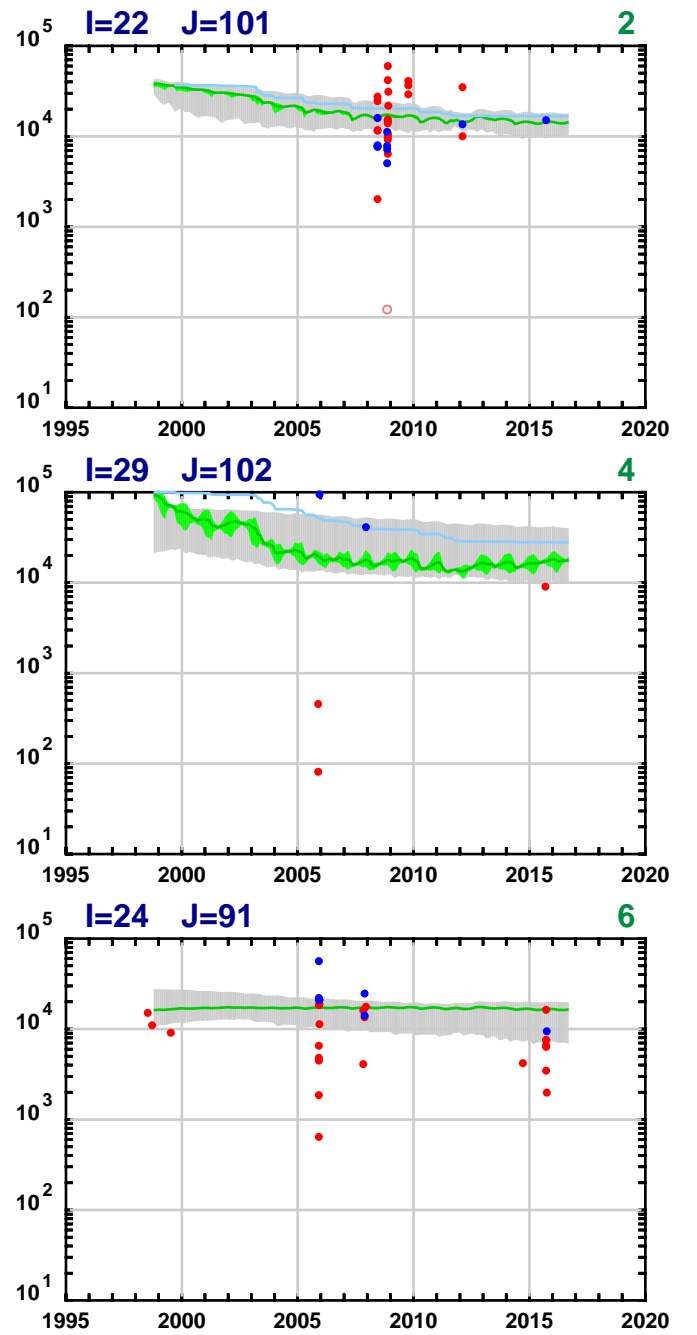
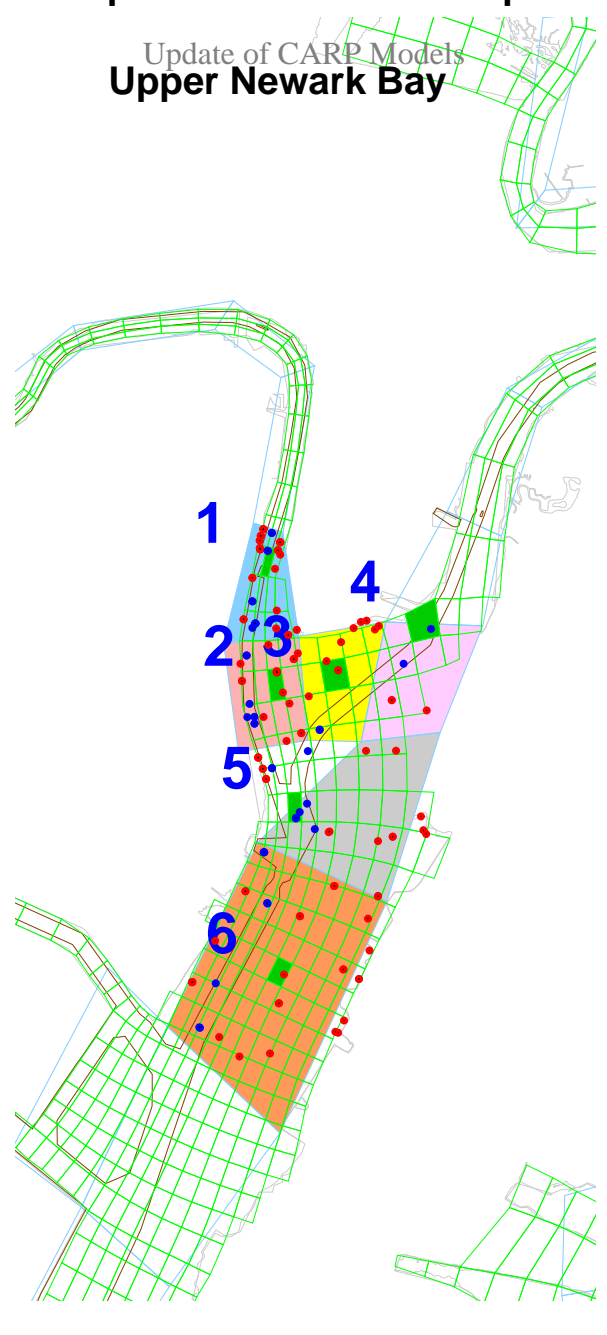
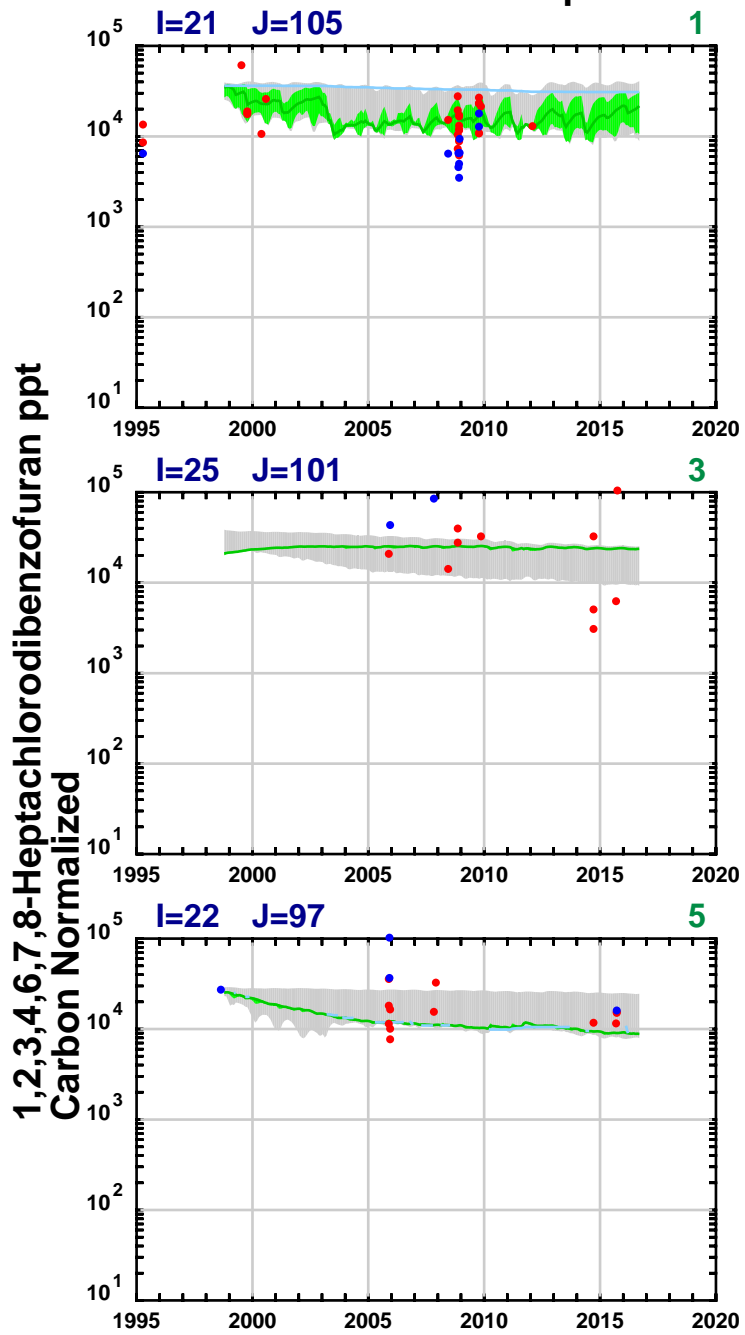


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



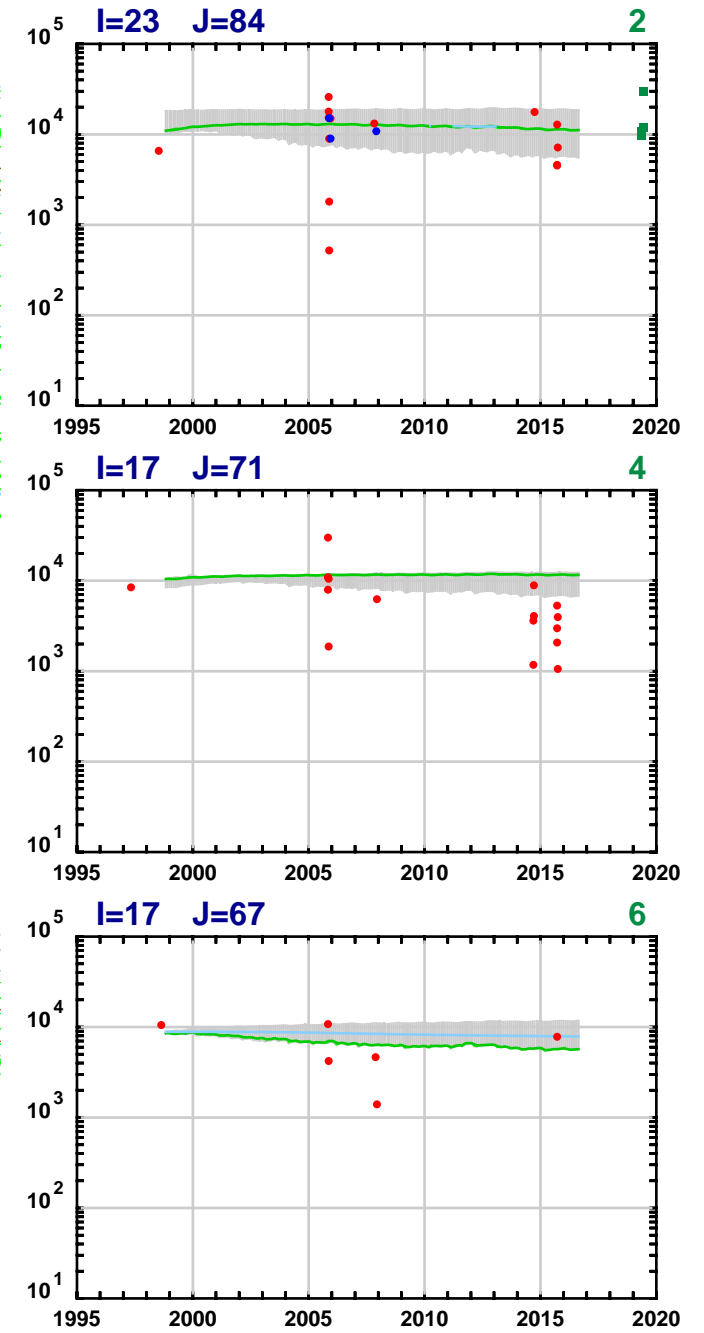
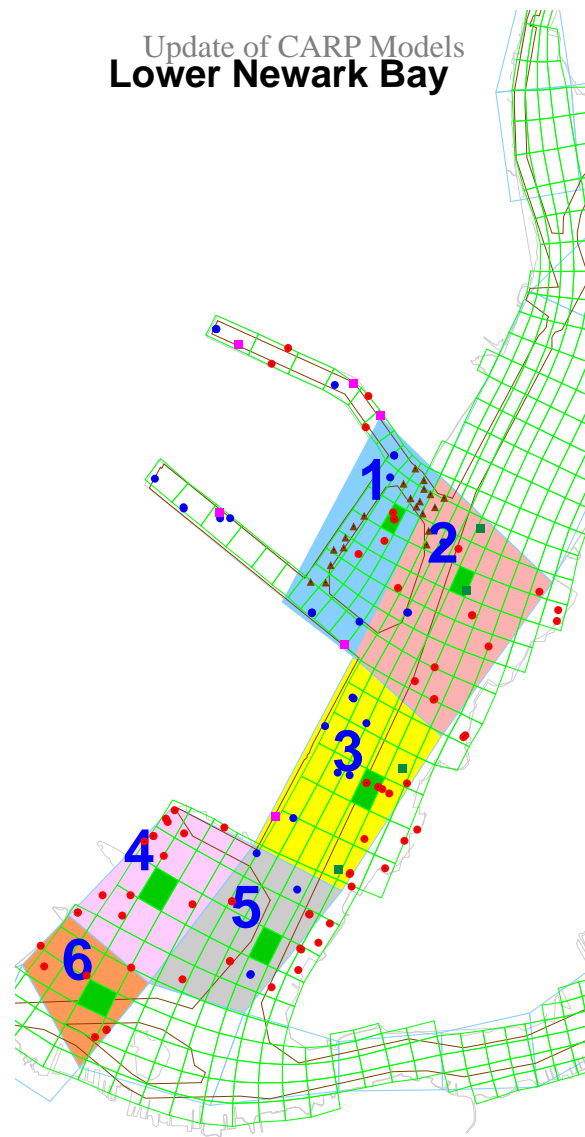
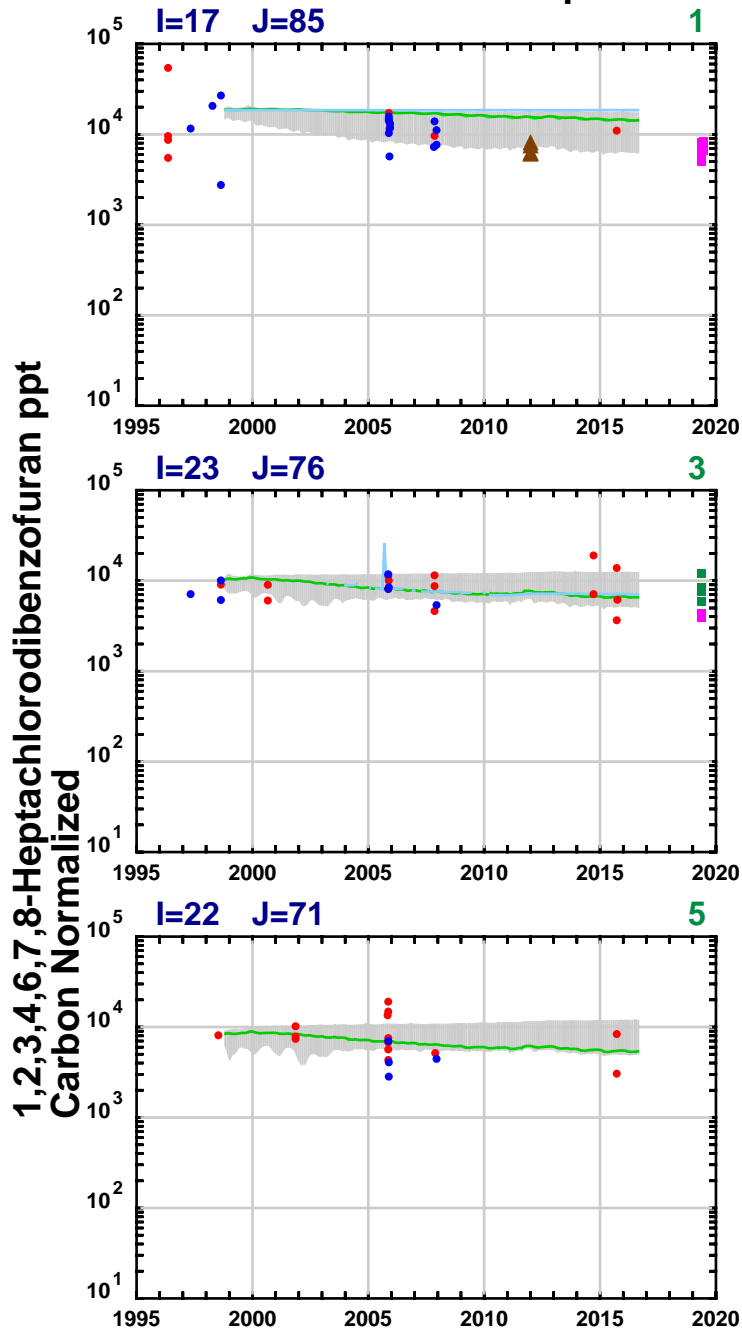
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



RUN18\_S5\_R2

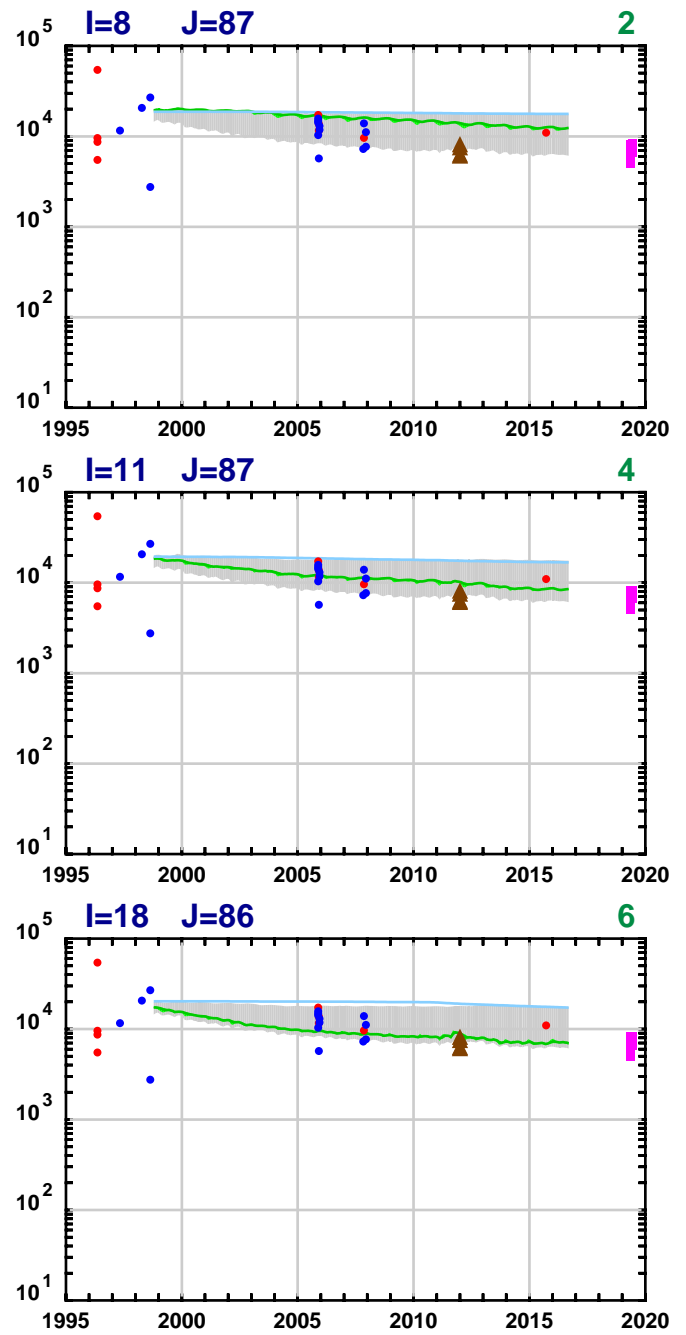
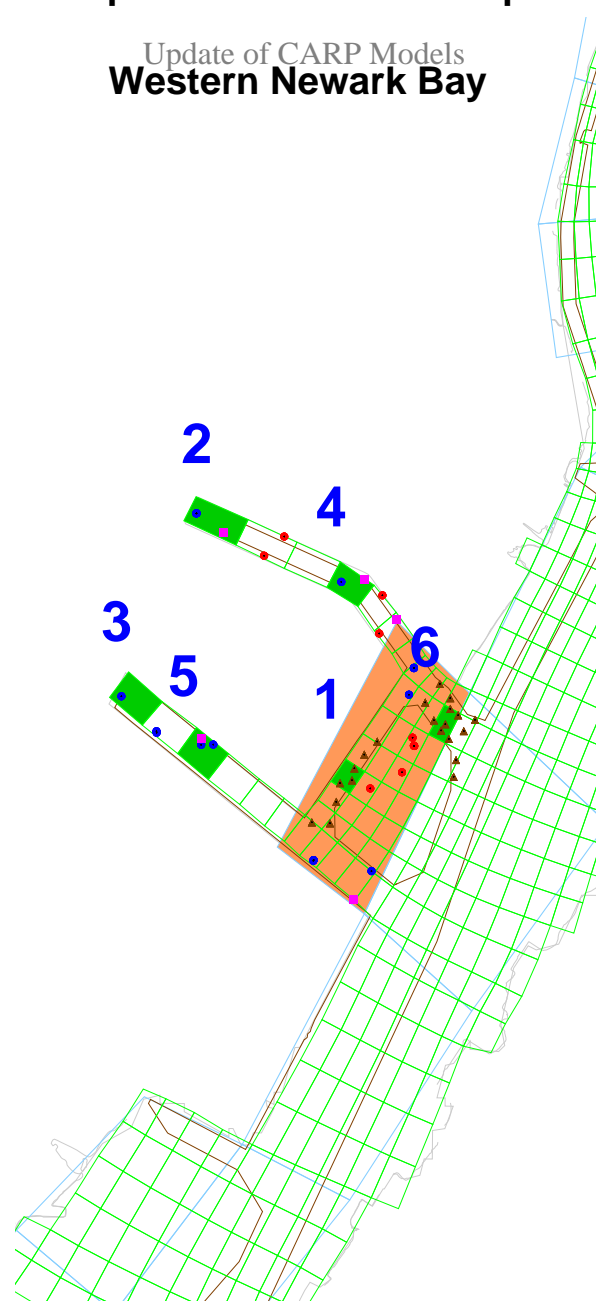
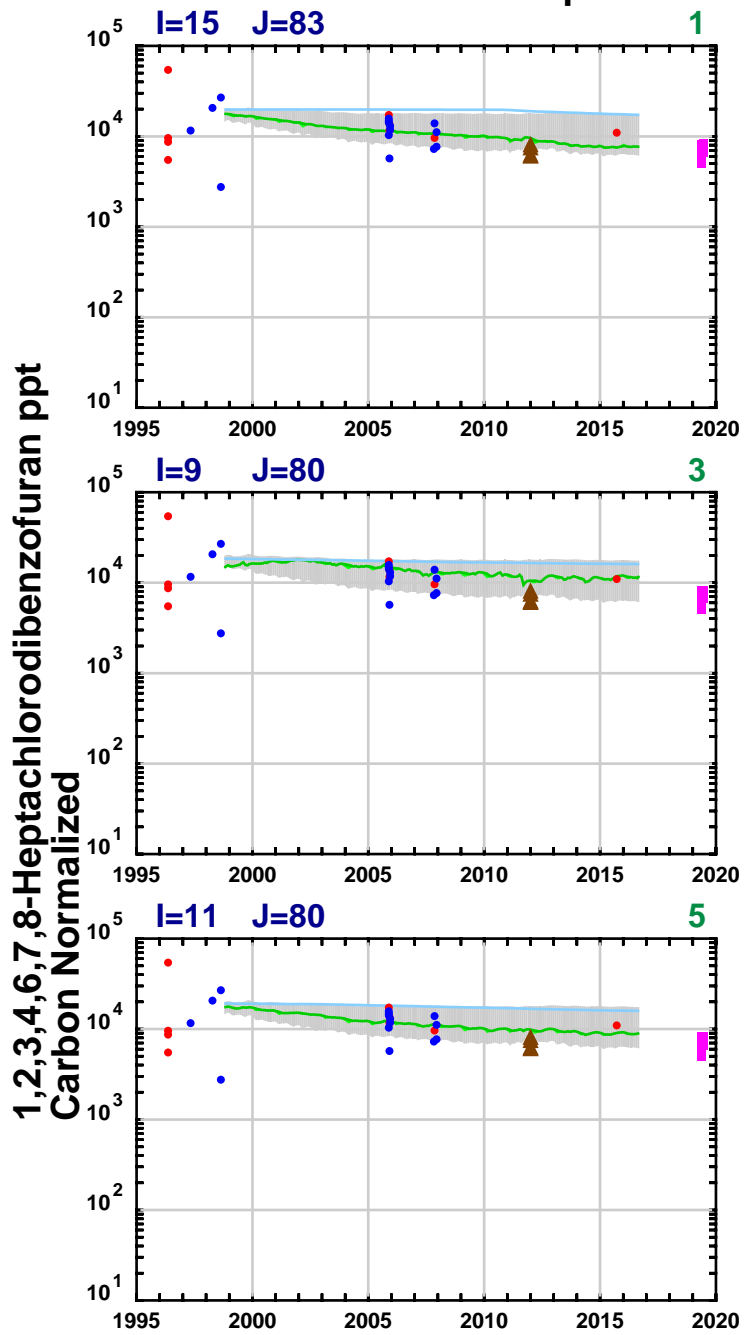
Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay



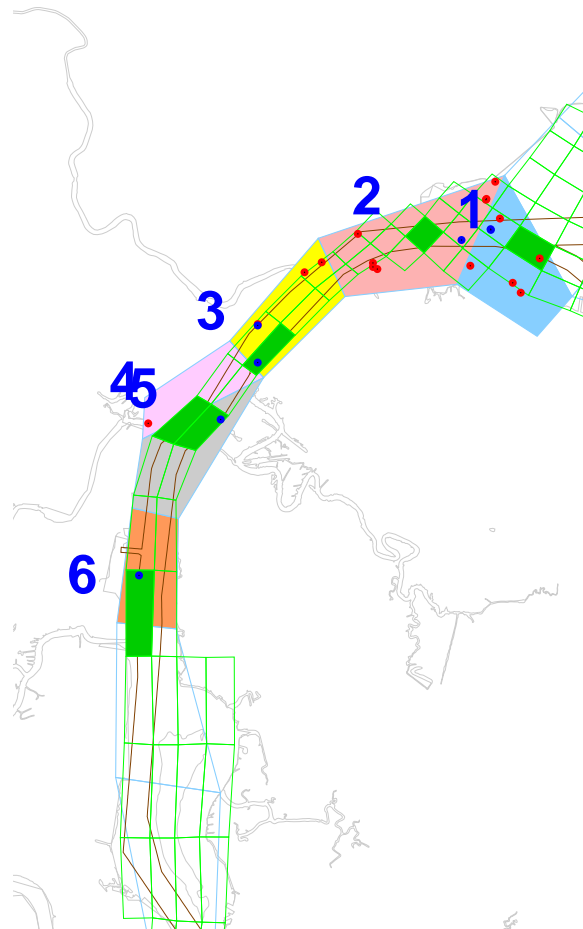
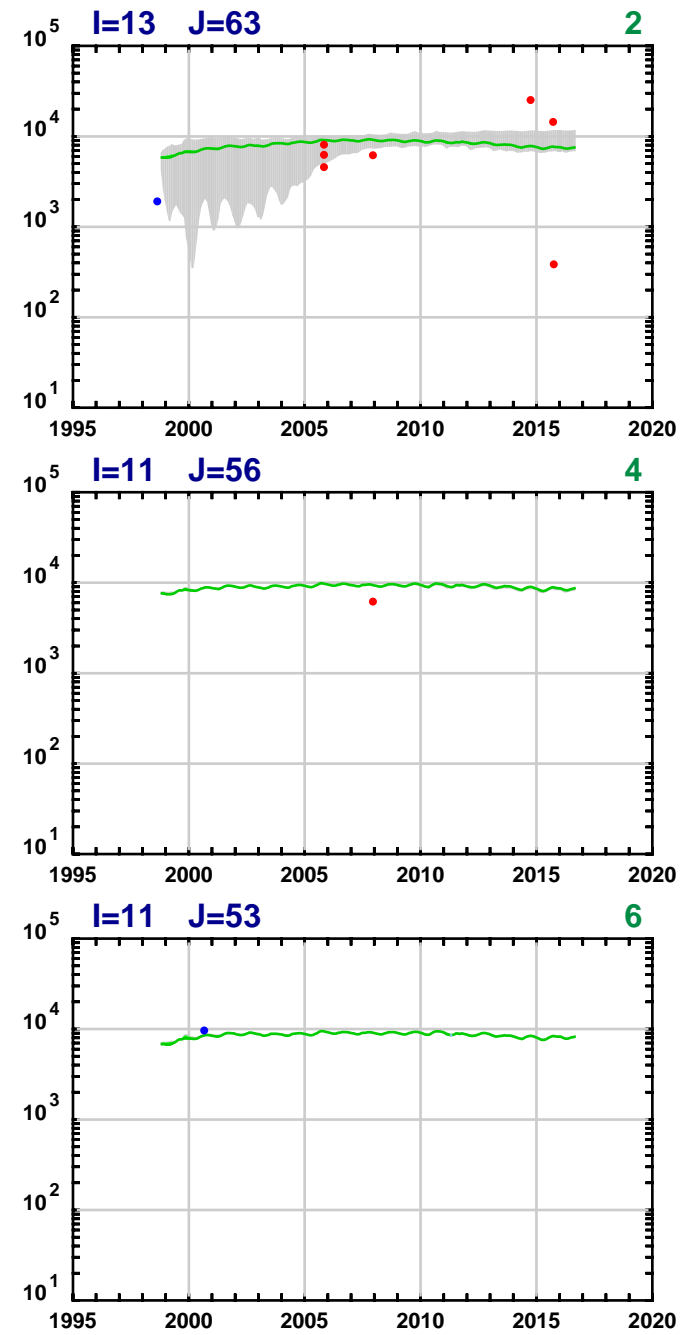
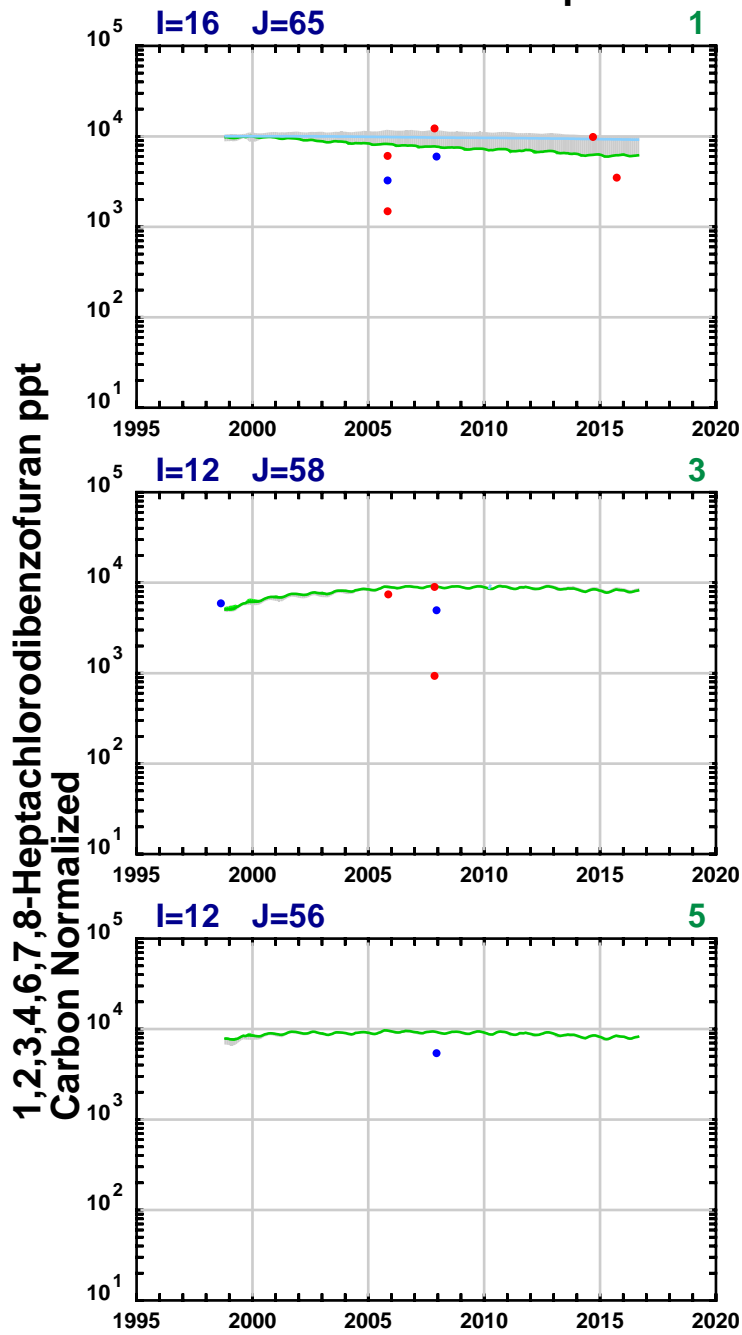
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1

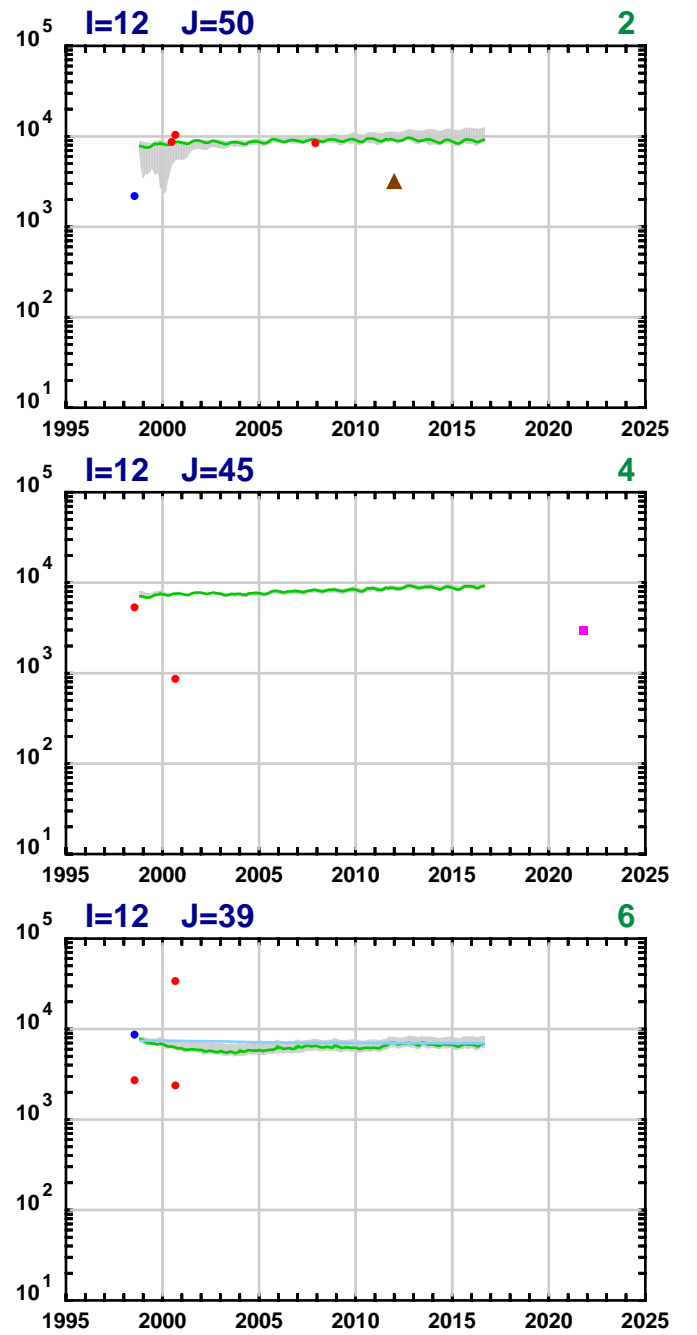
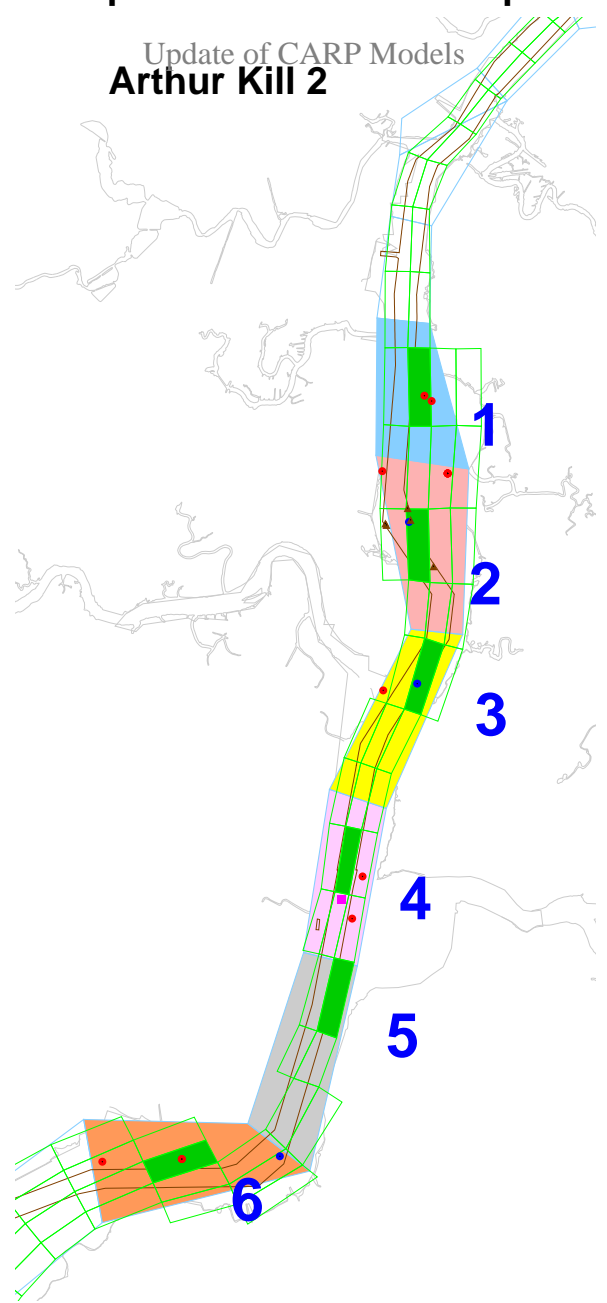
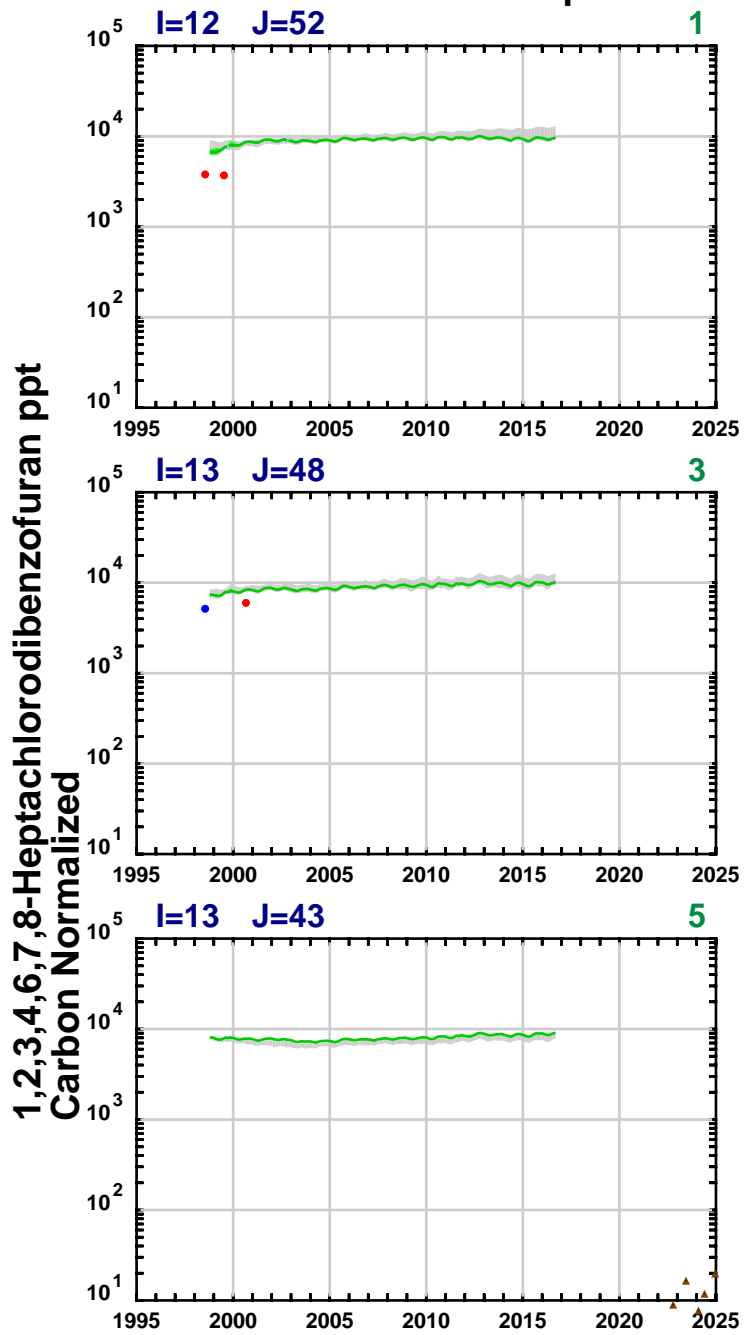


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

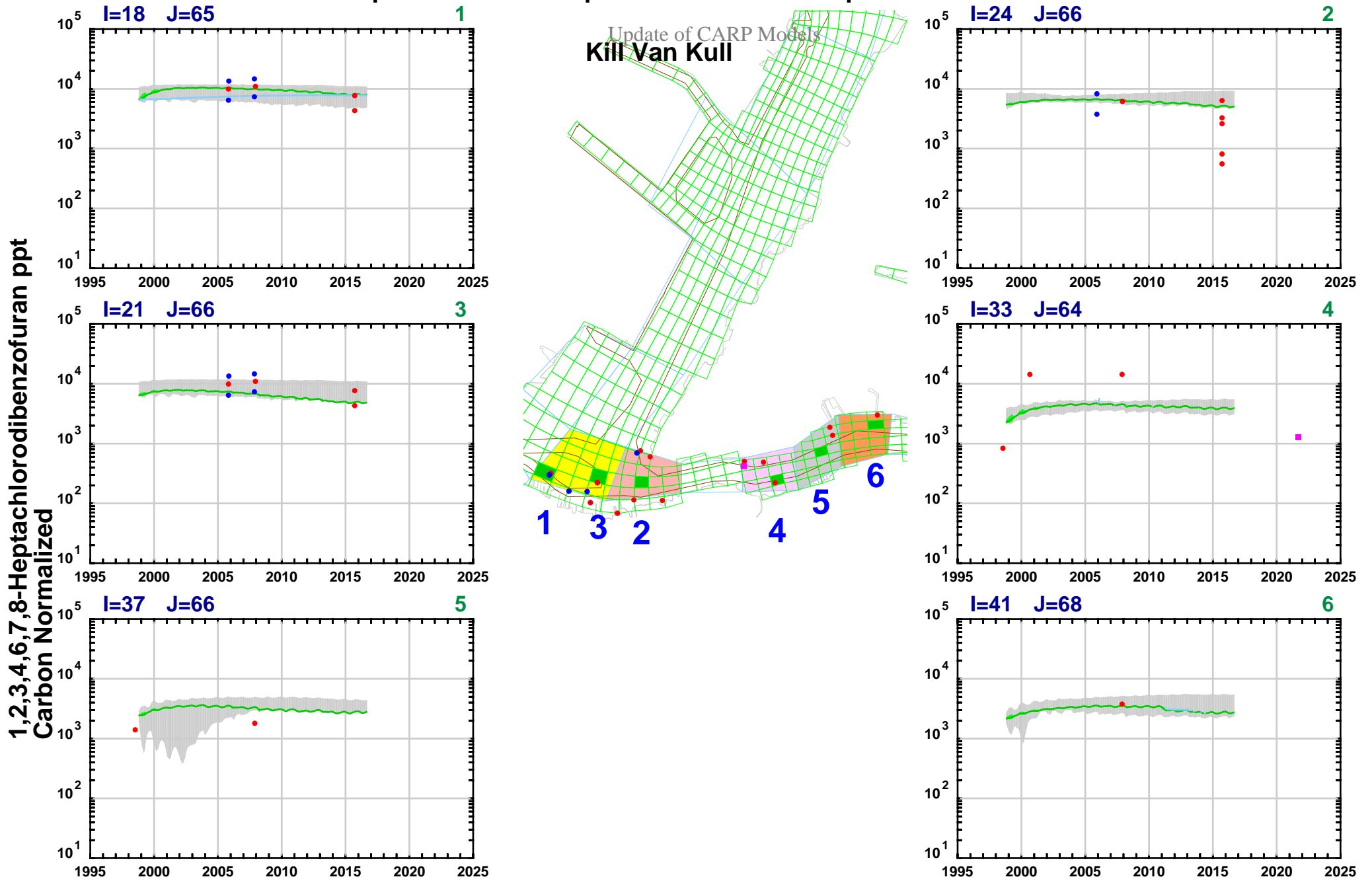


**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

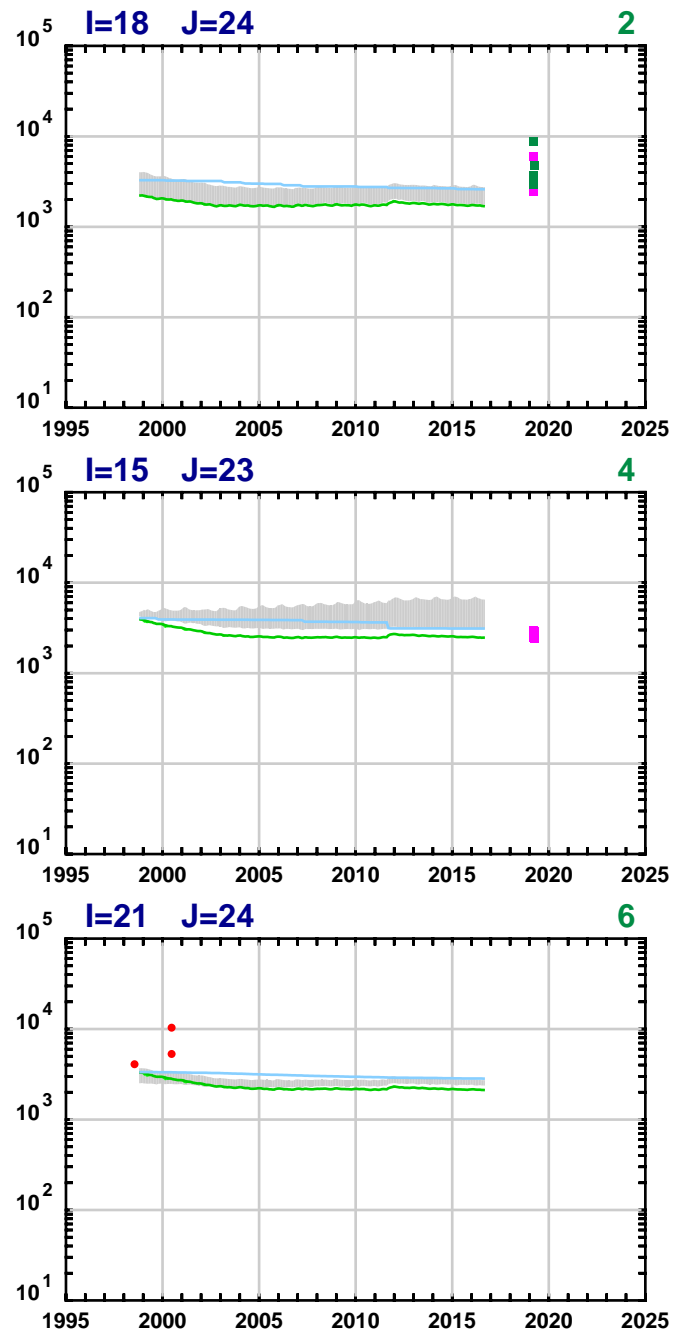
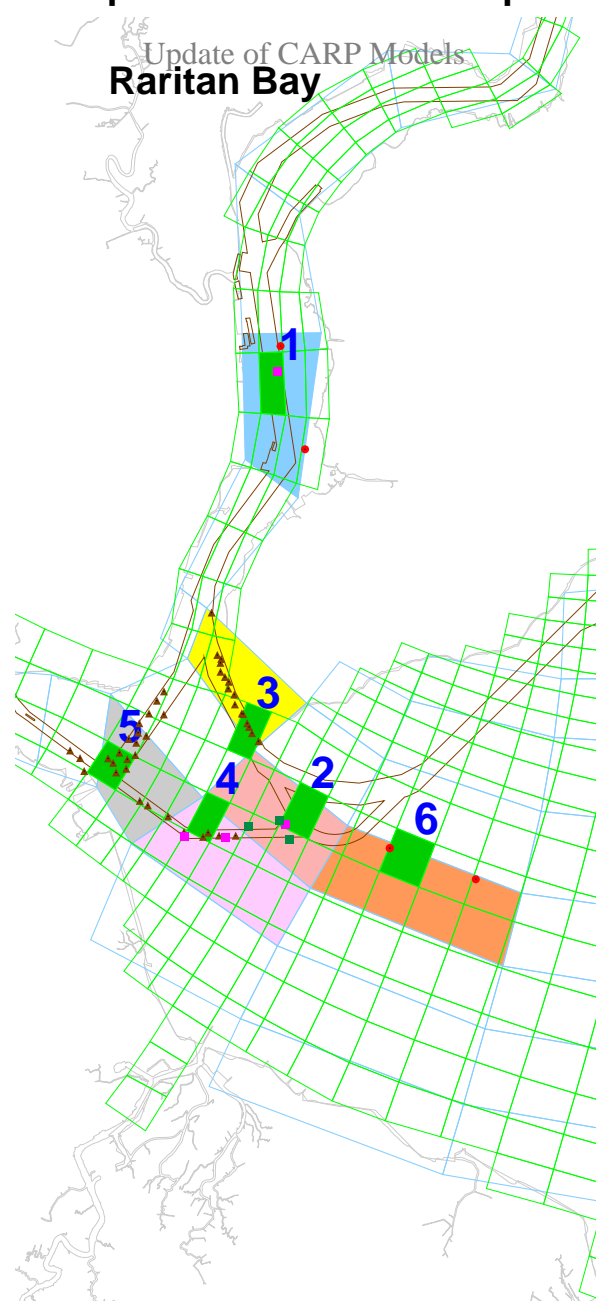
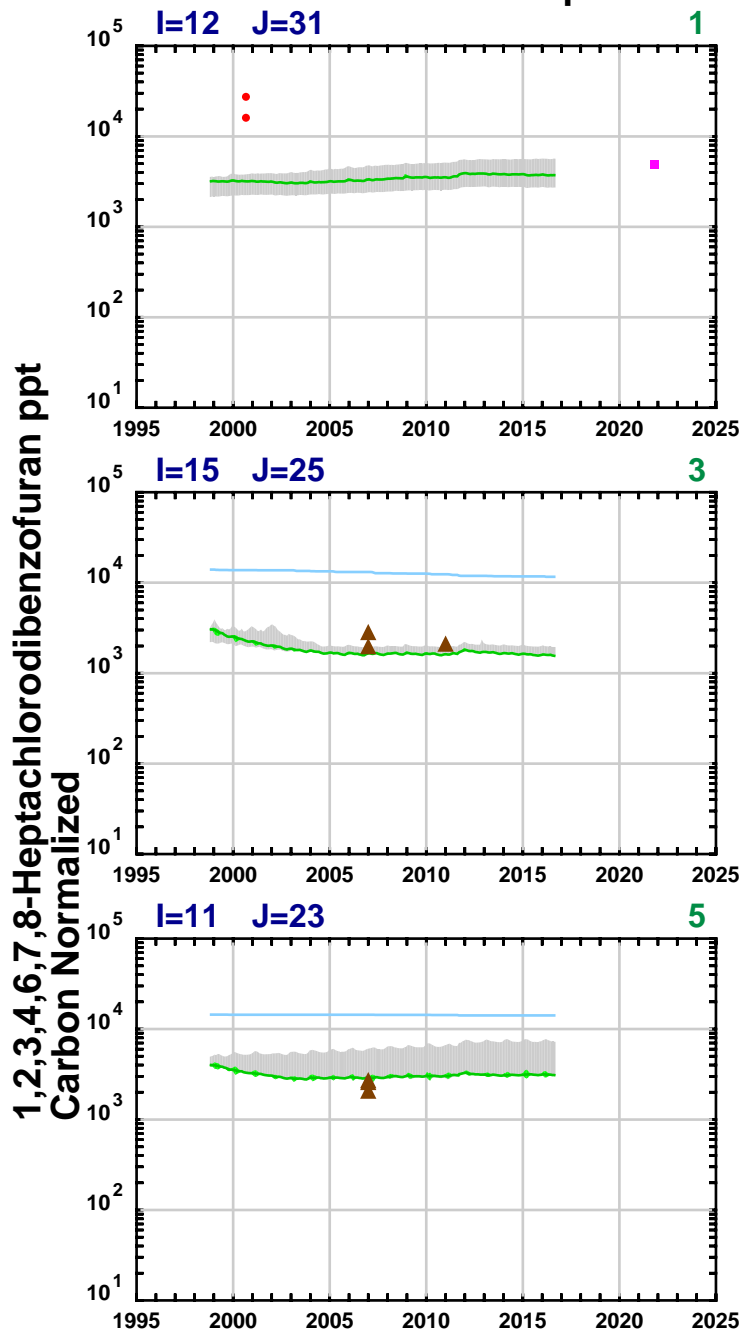


**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

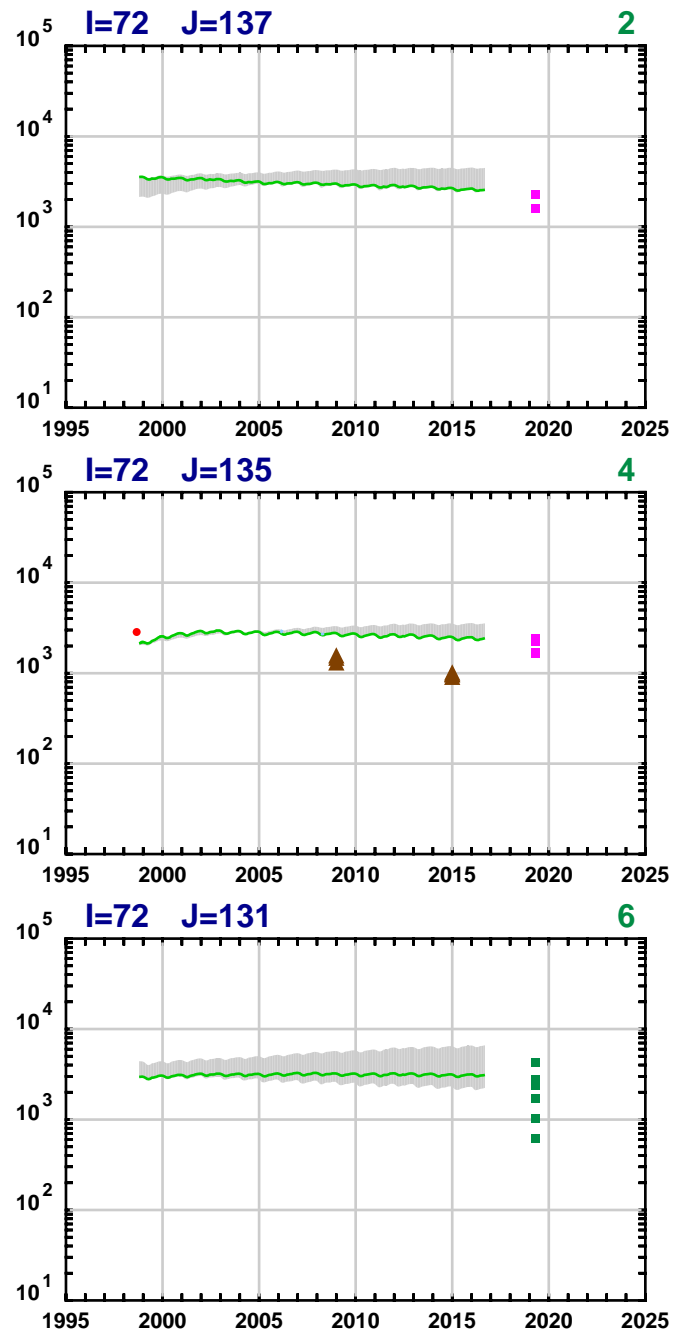
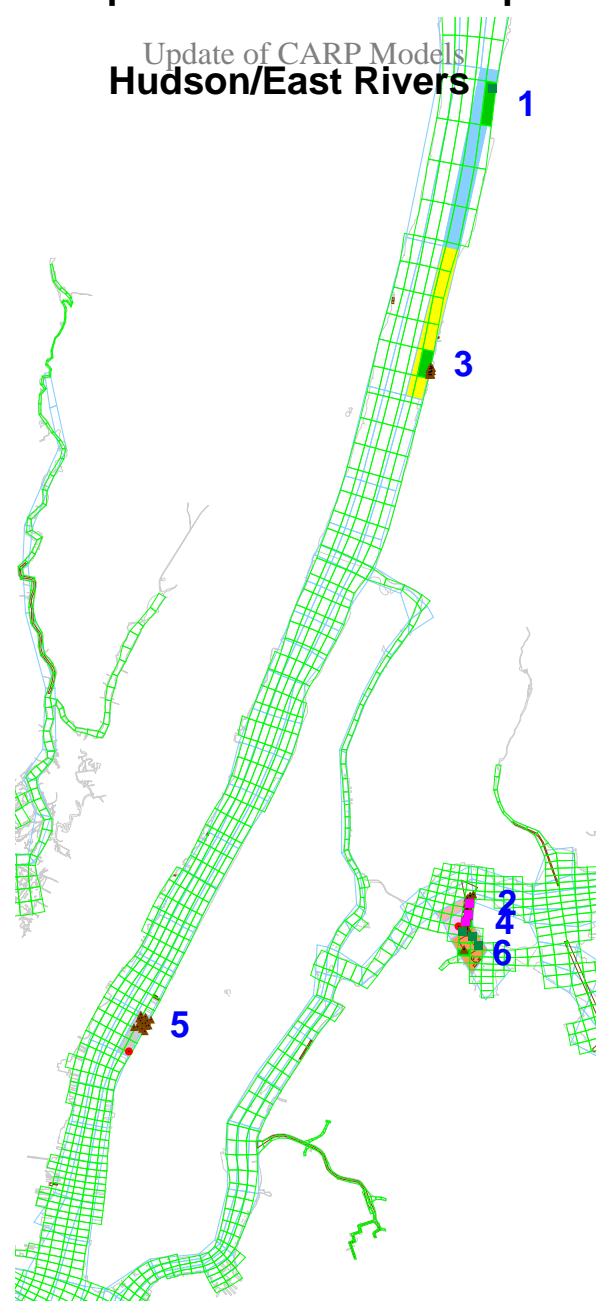
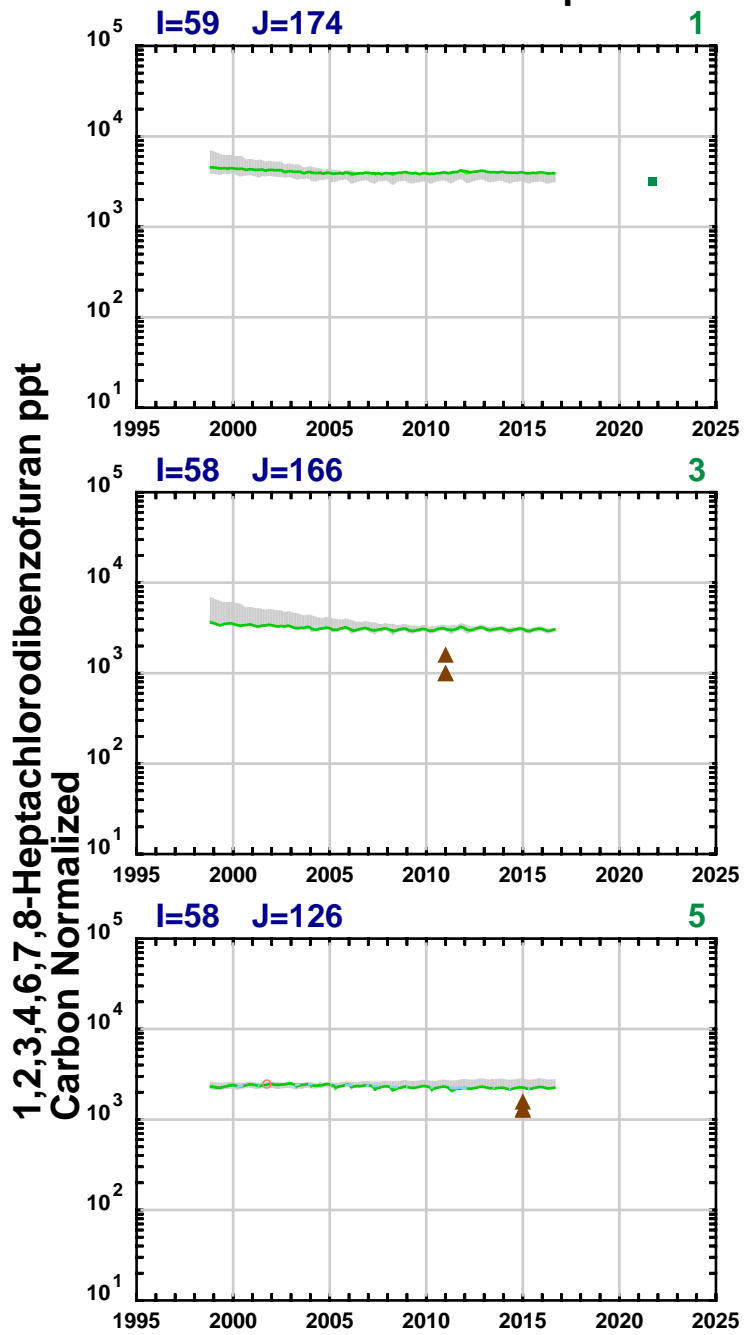


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

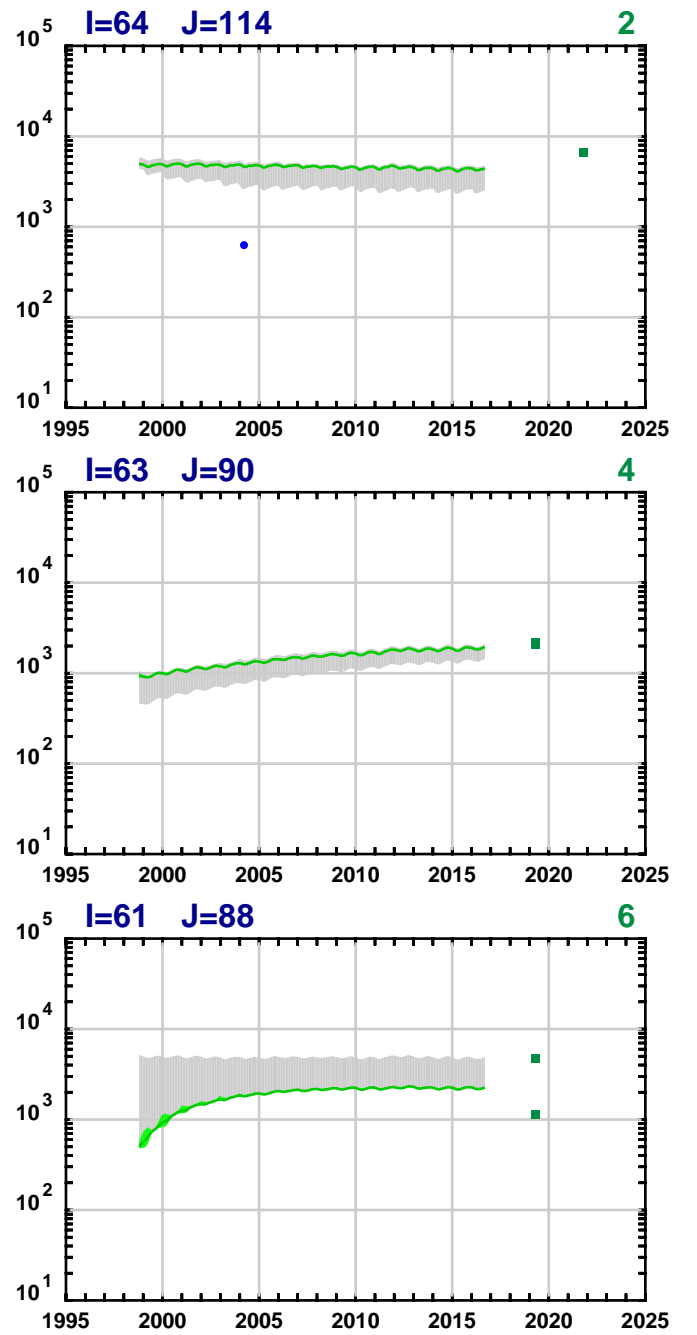
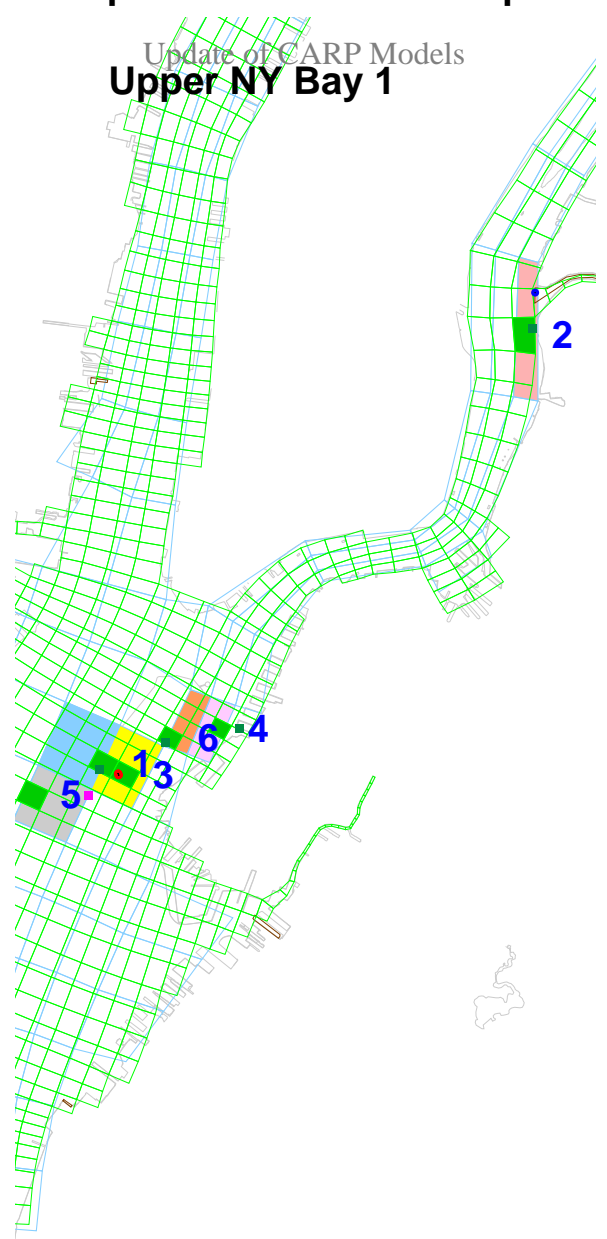
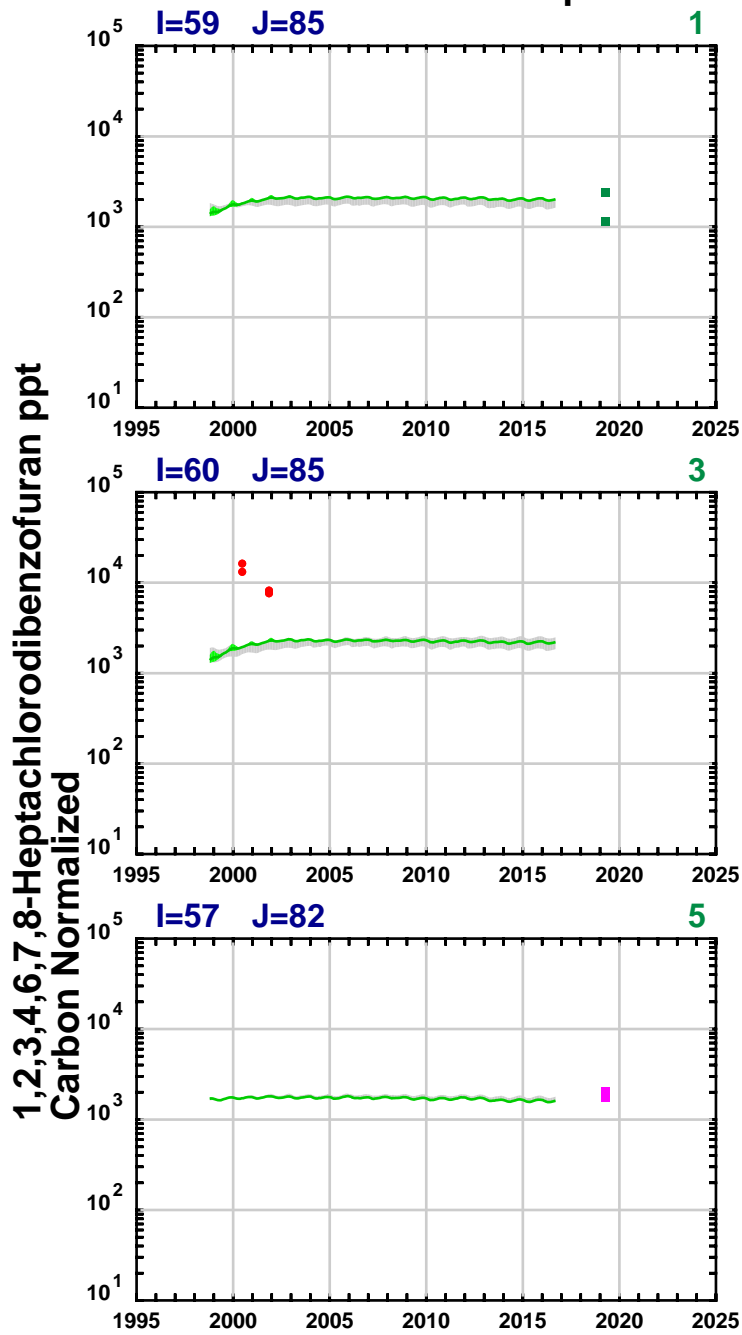


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



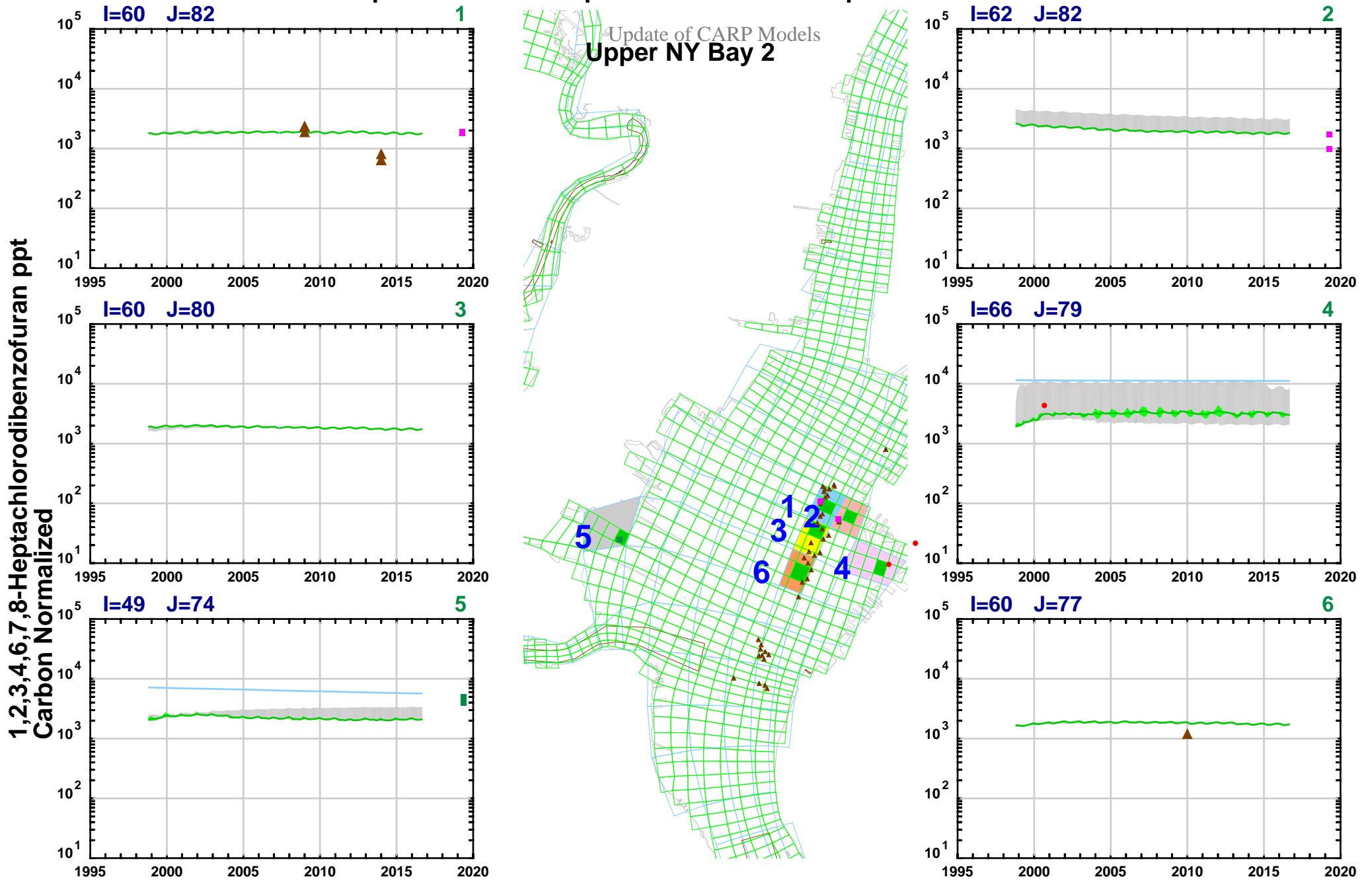
**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data ● Off-channel data ▲ Dredge data**  
**■ CARP2 In-channel ■ CARP2 Off-channel**



# Top 15 cm data comparison with model top 10 cm sediment

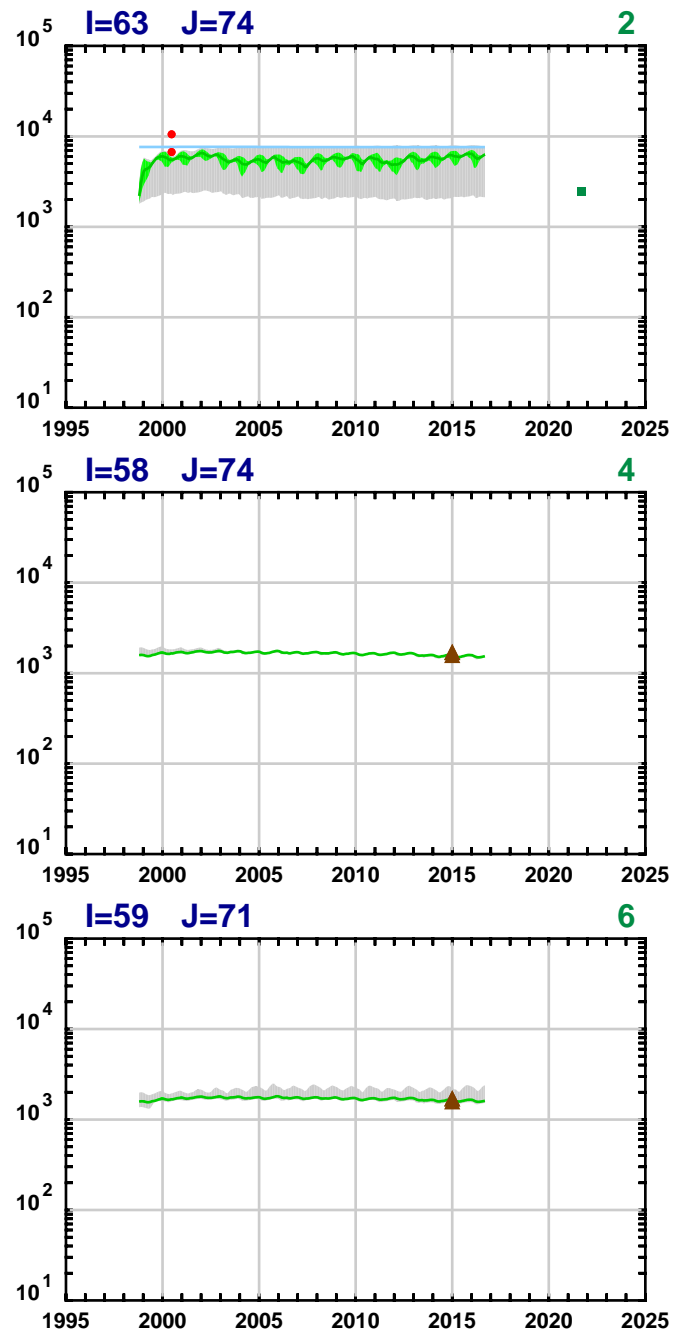
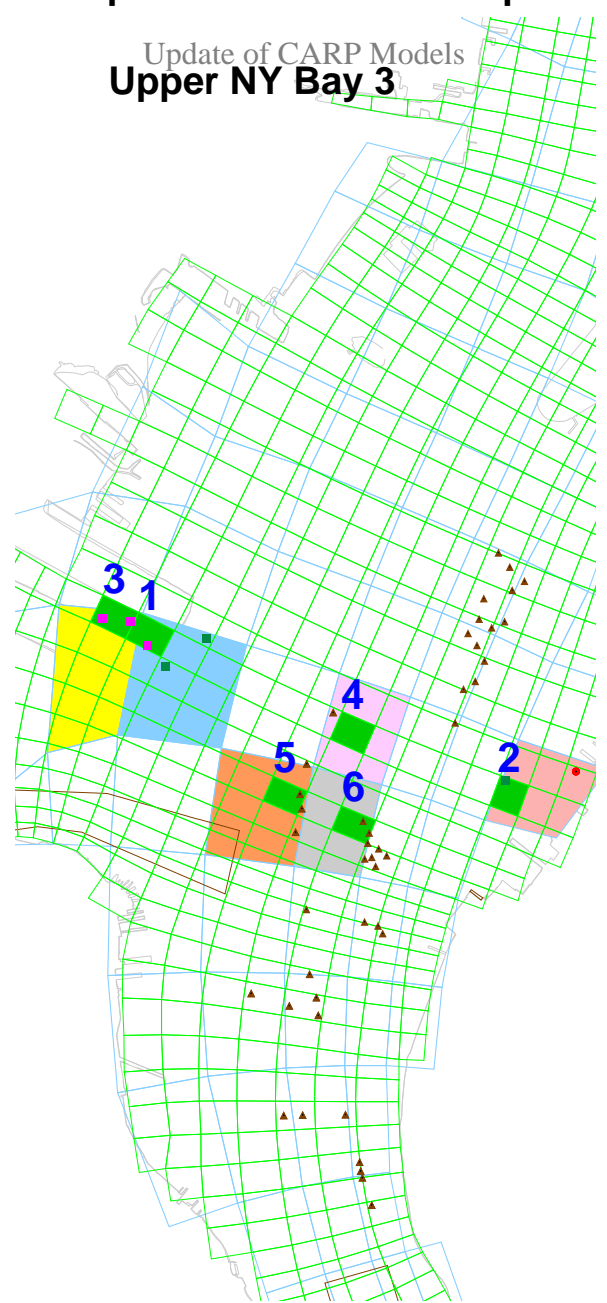
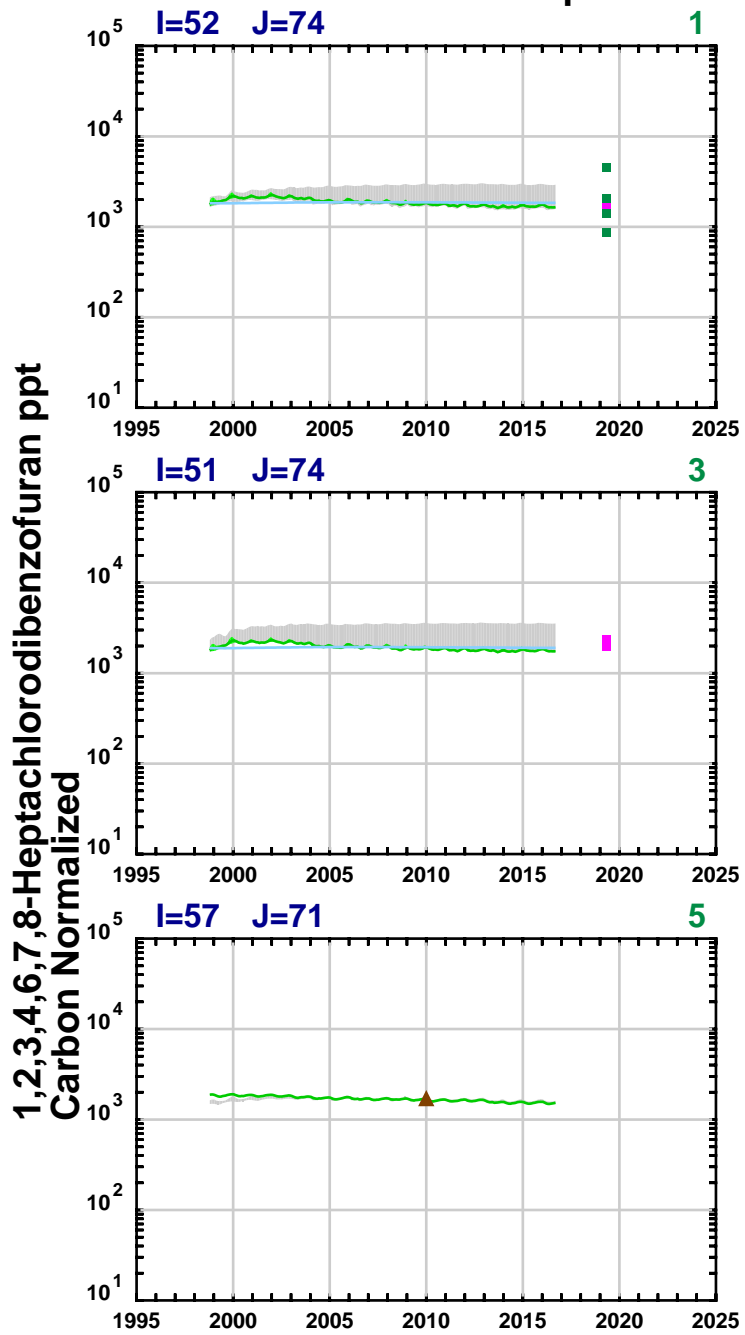


**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data    ● Off-channel data    ▲ Dredge data**  
**■ CARP2 In-channel    ■ CARP2 Off-channel**

# Top 15 cm data comparison with model top 10 cm sediment

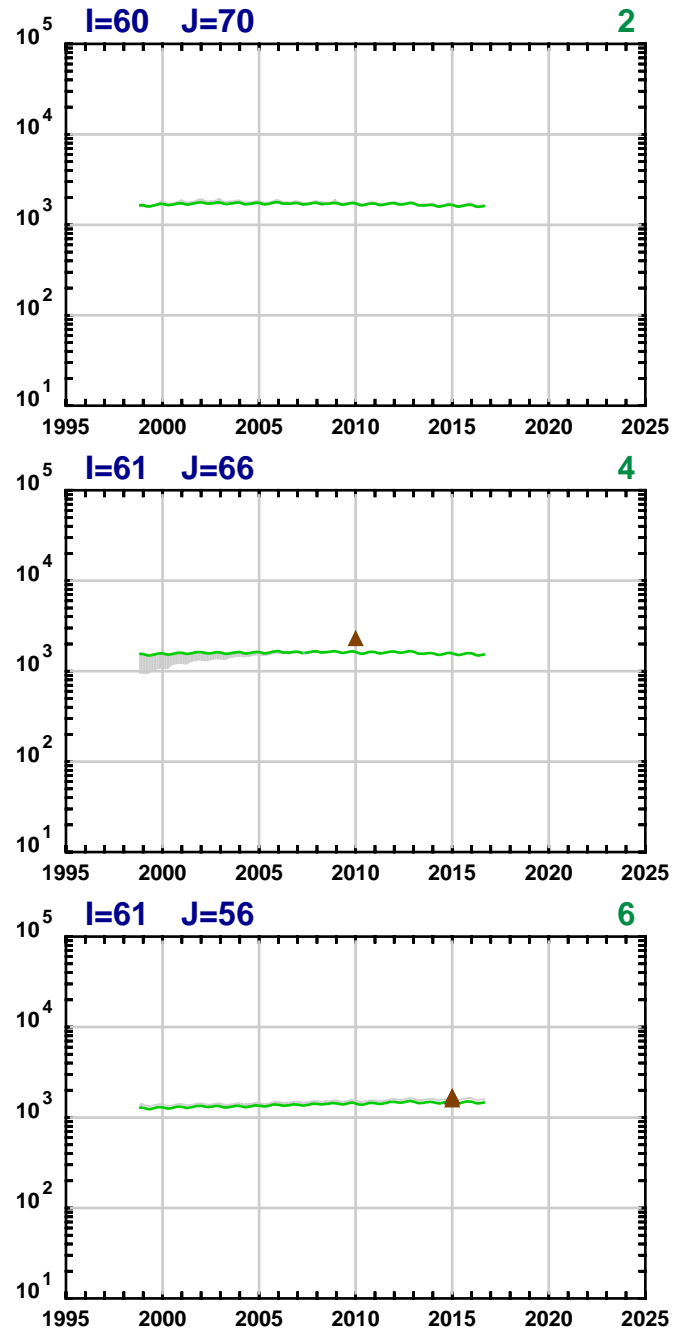
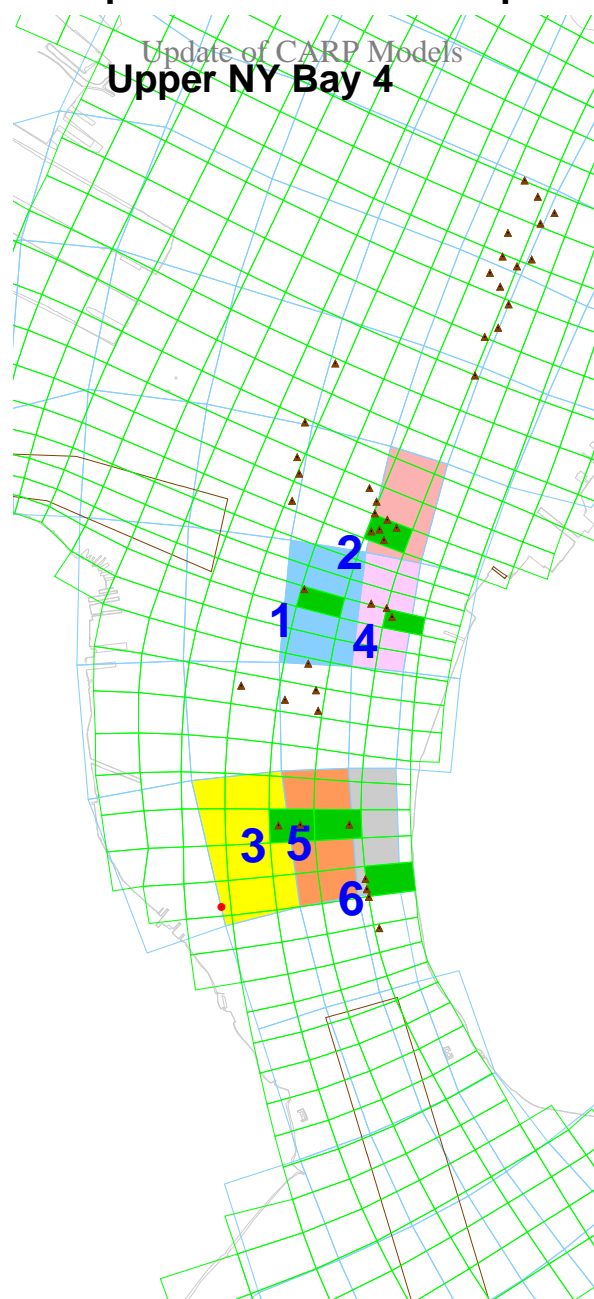
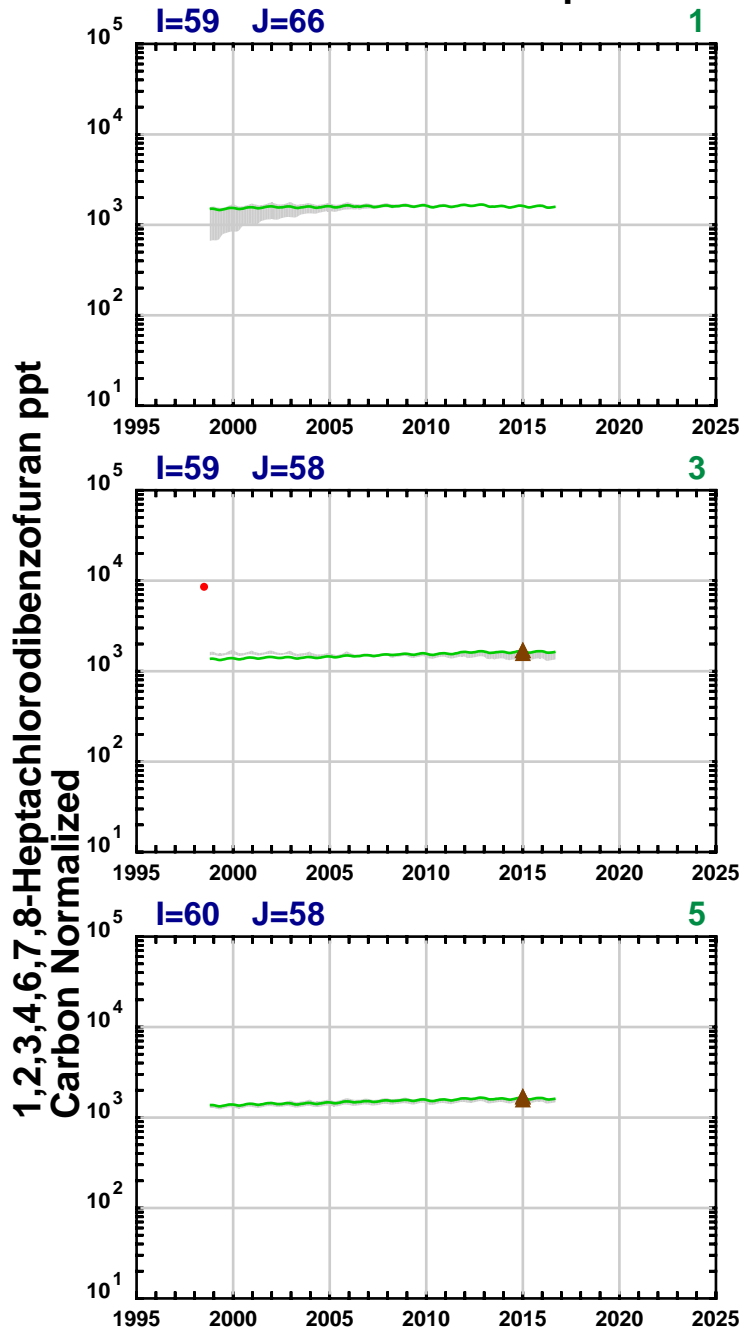


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

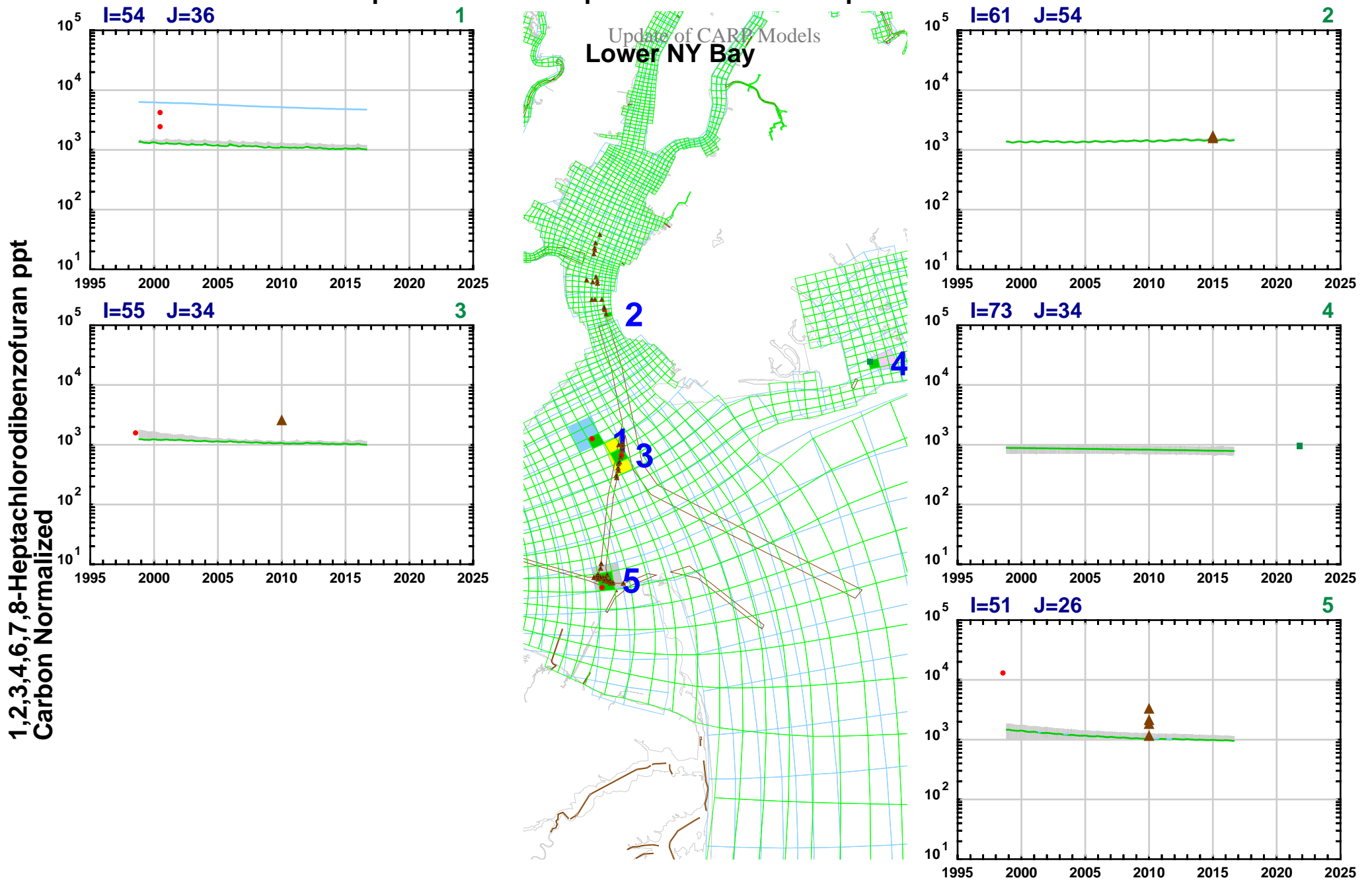


**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data   ● Off-channel data   ▲ Dredge data  
 ■ CARP2 In-channel   ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

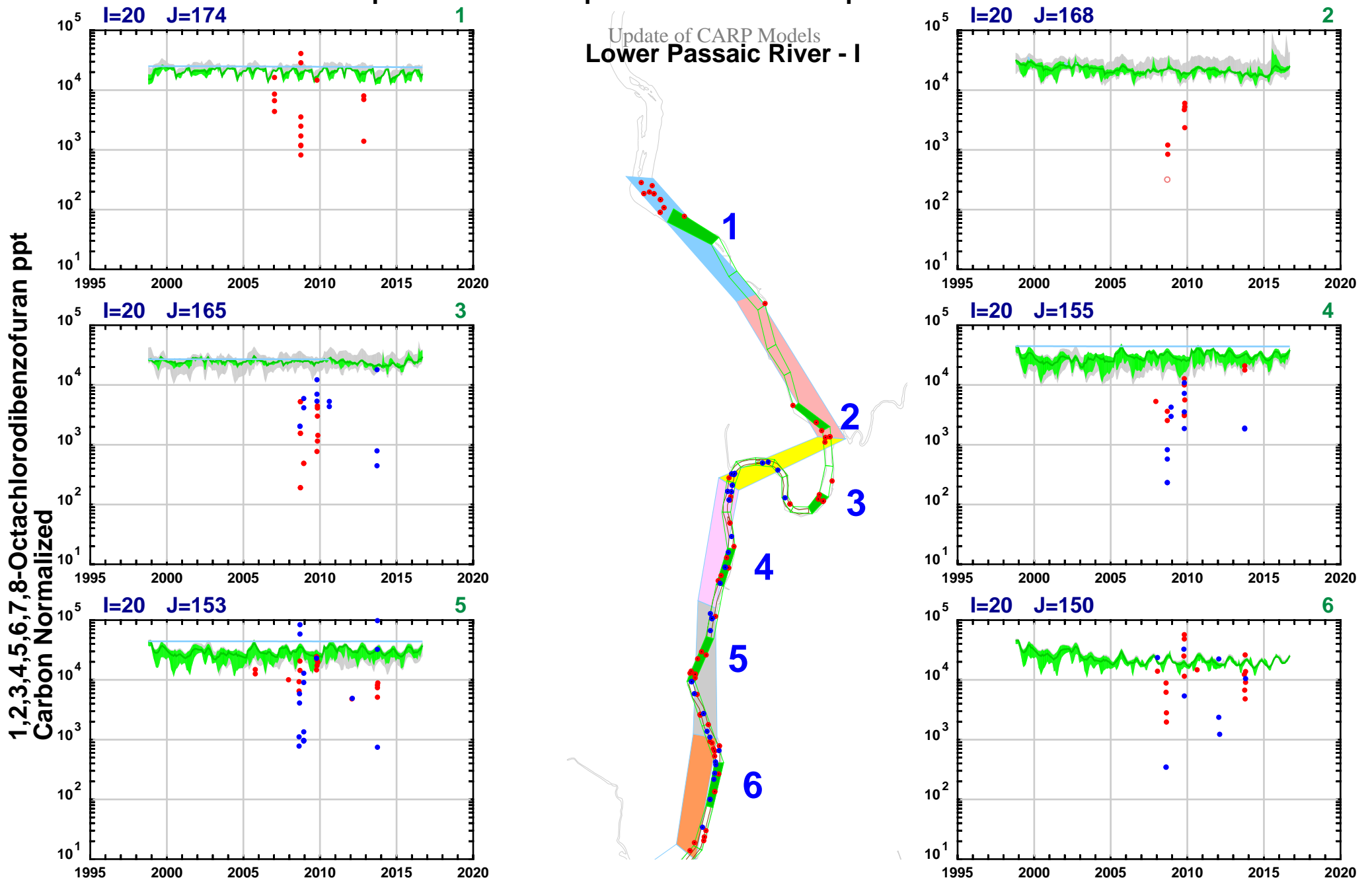


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
 Model: mean and range of values in bottom sediment

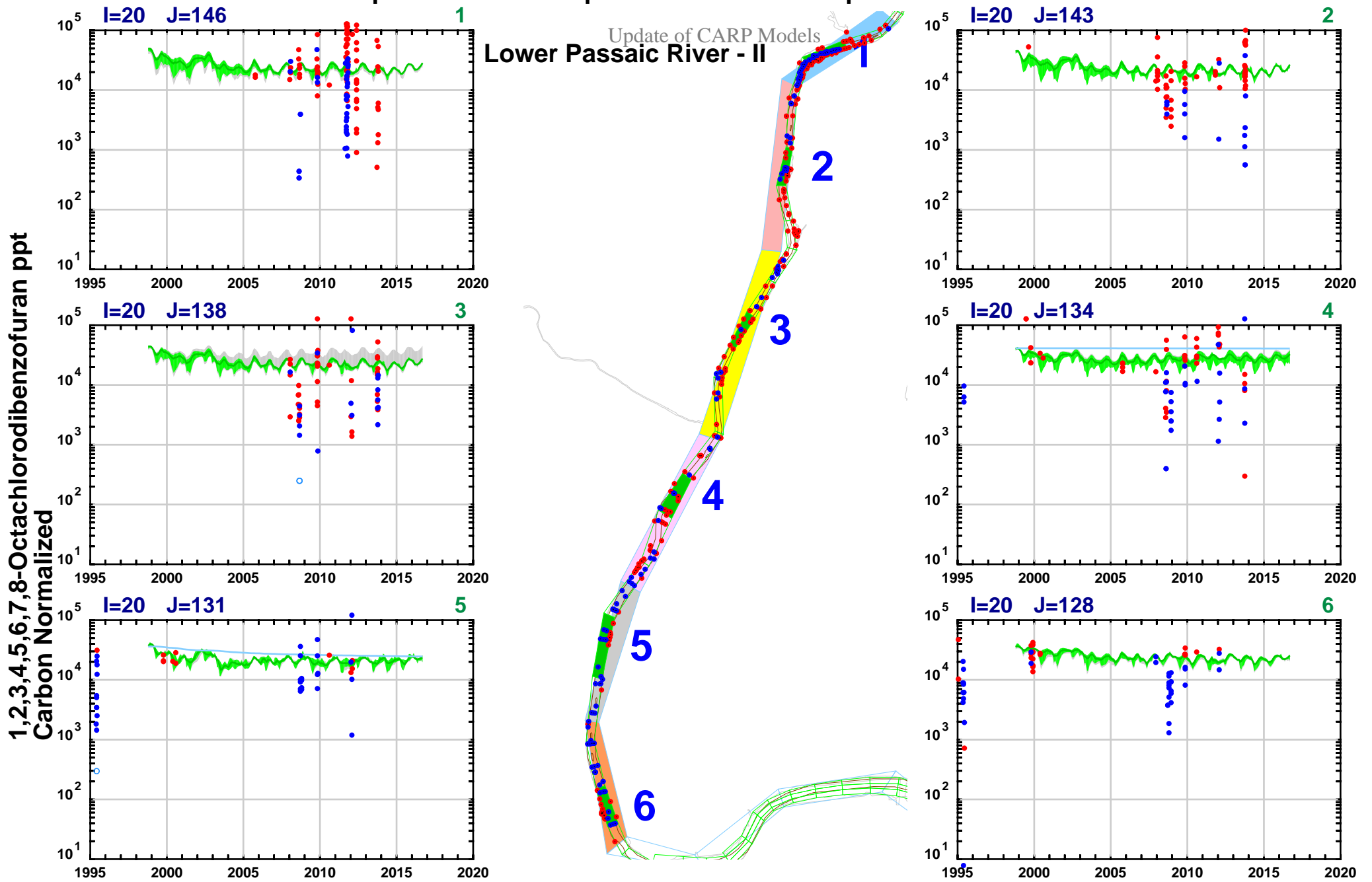
● In-channel data ● Off-channel data ▲ Dredge data  
 ■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



RUN18\_S5\_R2

# Top 15 cm data comparison with model top 10 cm sediment



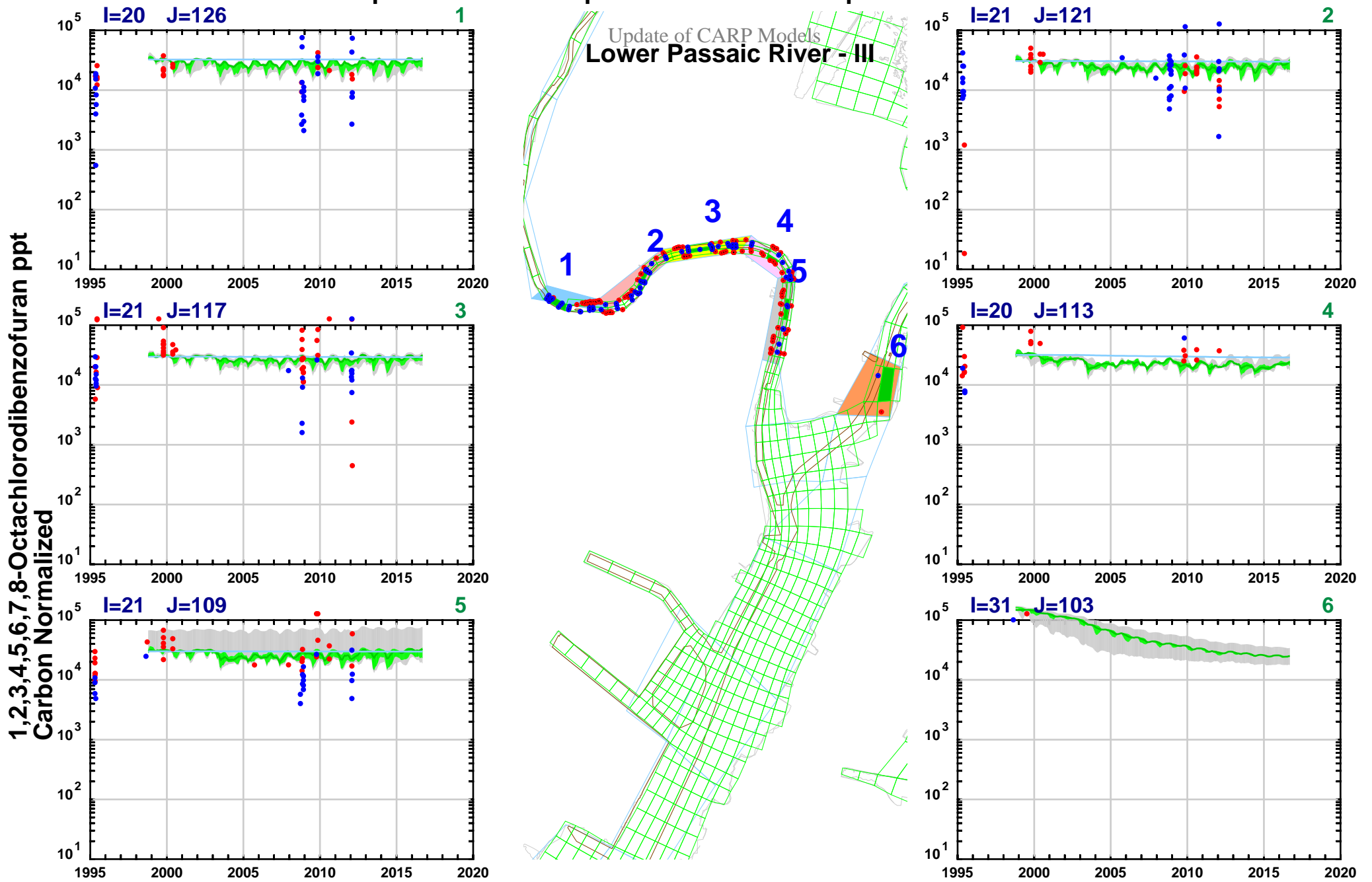
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



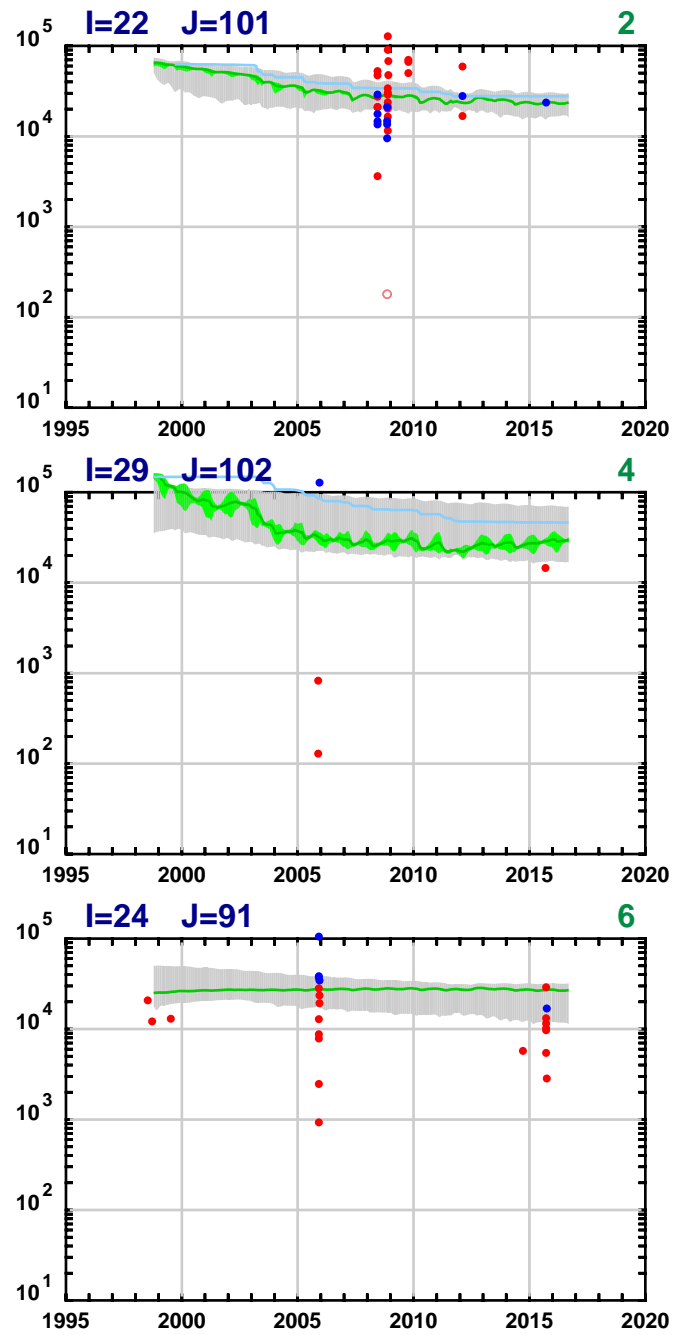
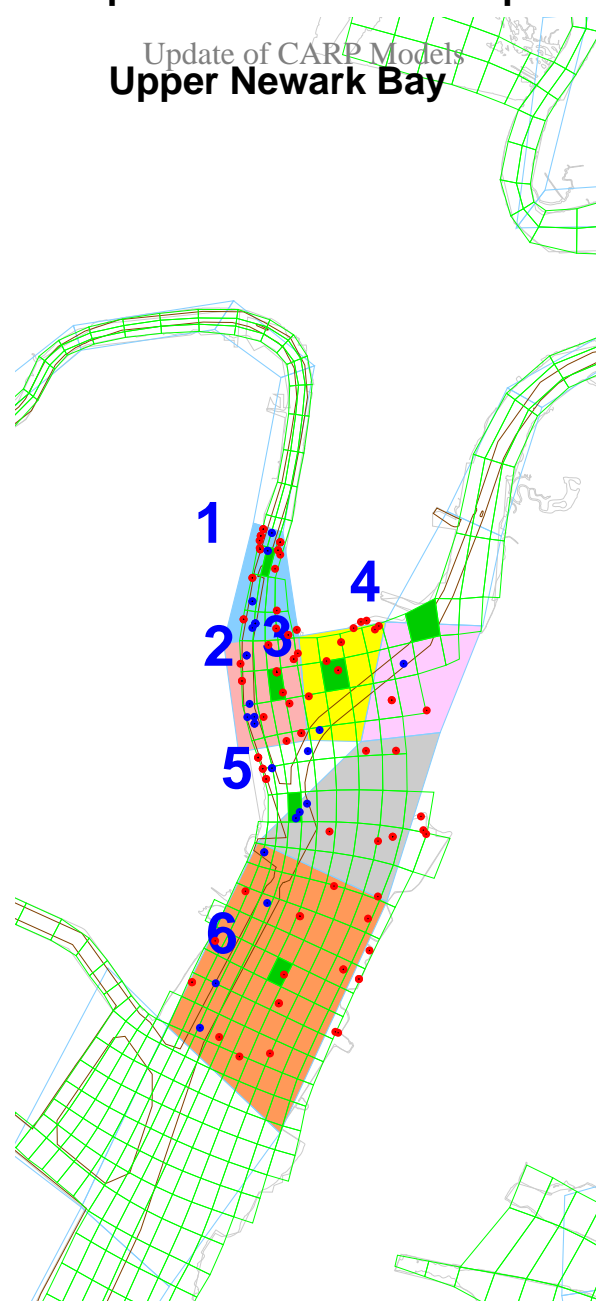
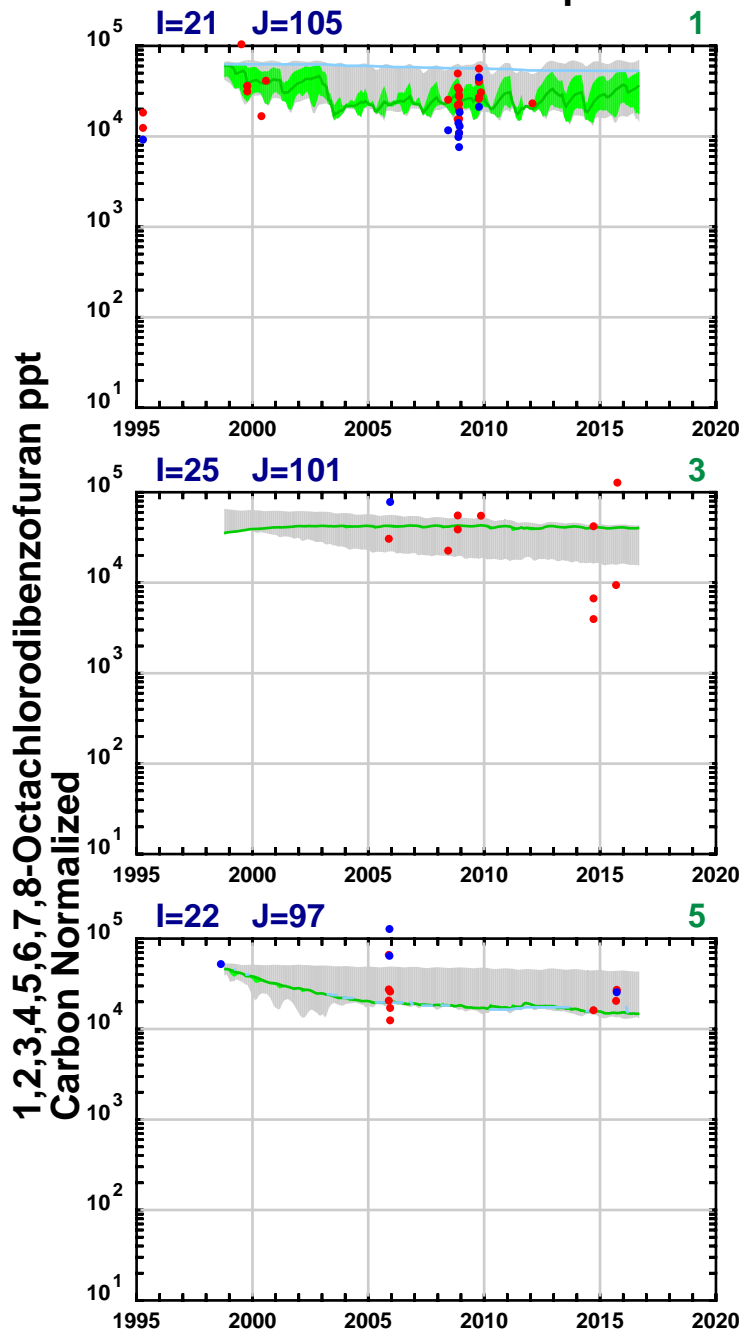
**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data    ● Off-channel data    ▲ Dredge data**  
**■ CARP2 In-channel    ■ CARP2 Off-channel**



# Top 15 cm data comparison with model top 10 cm sediment

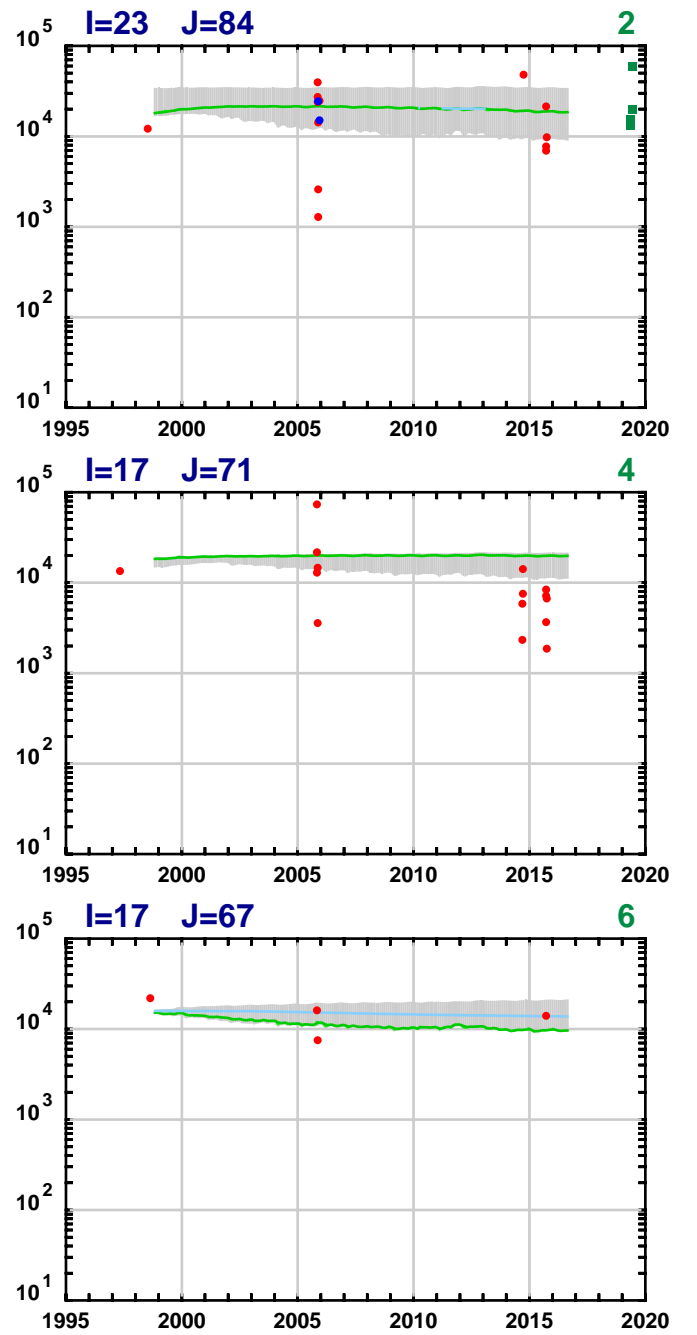
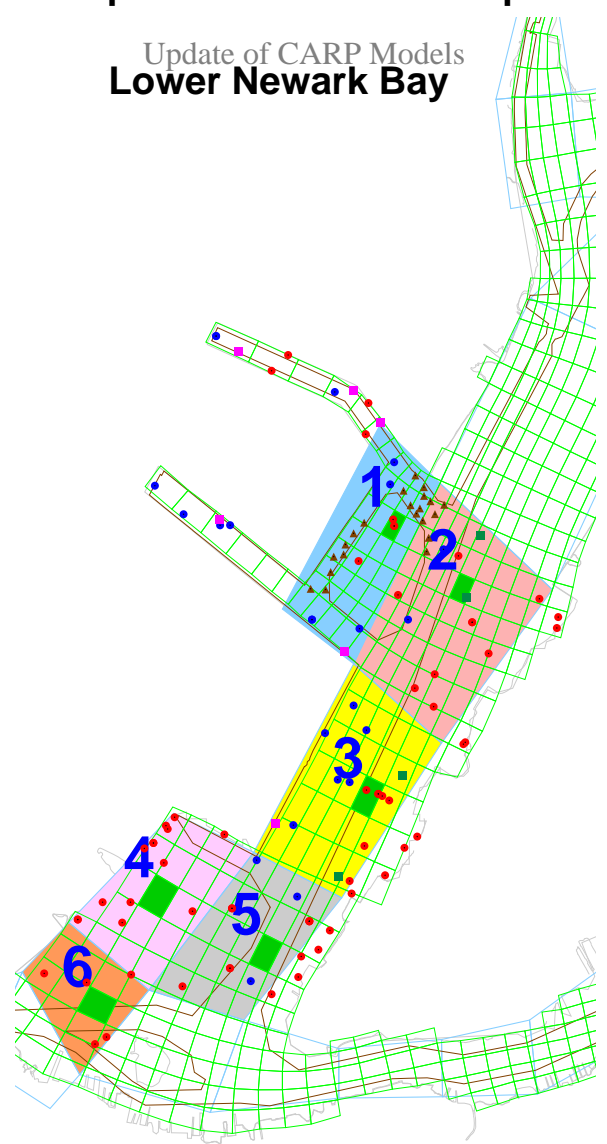
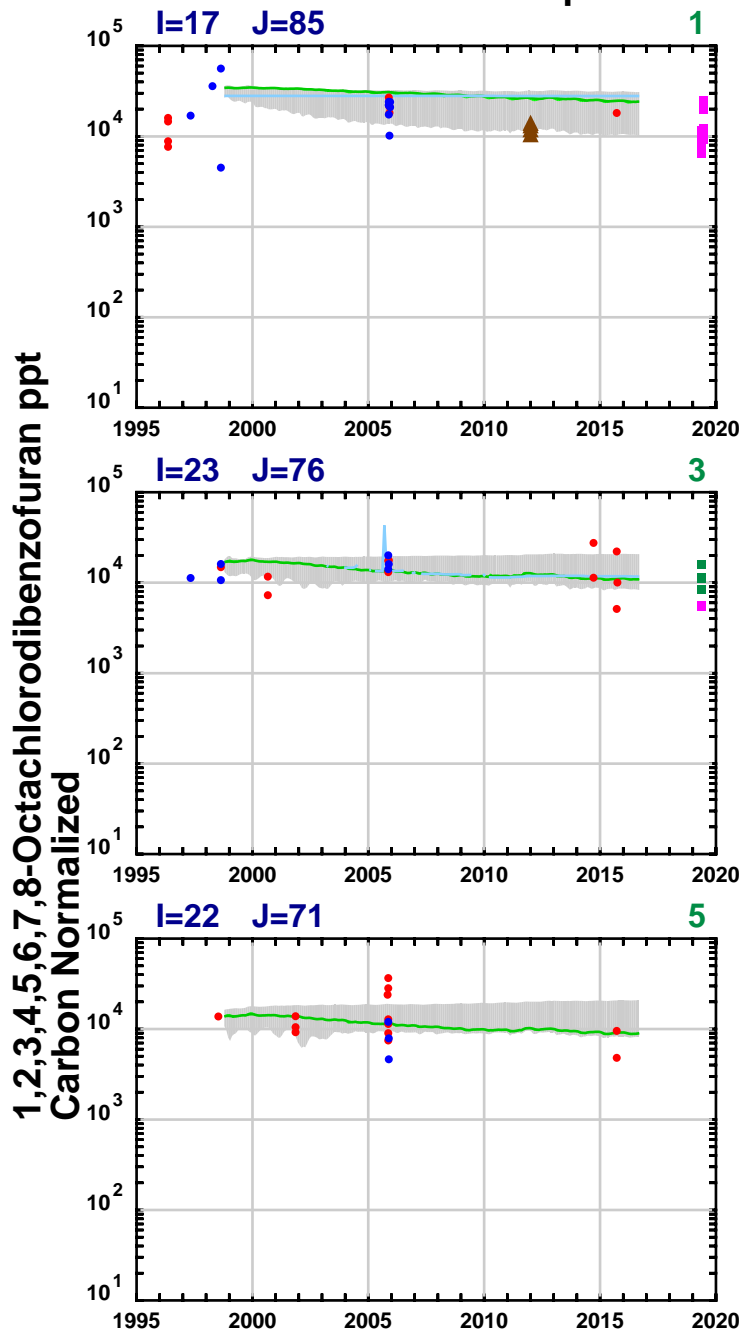


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



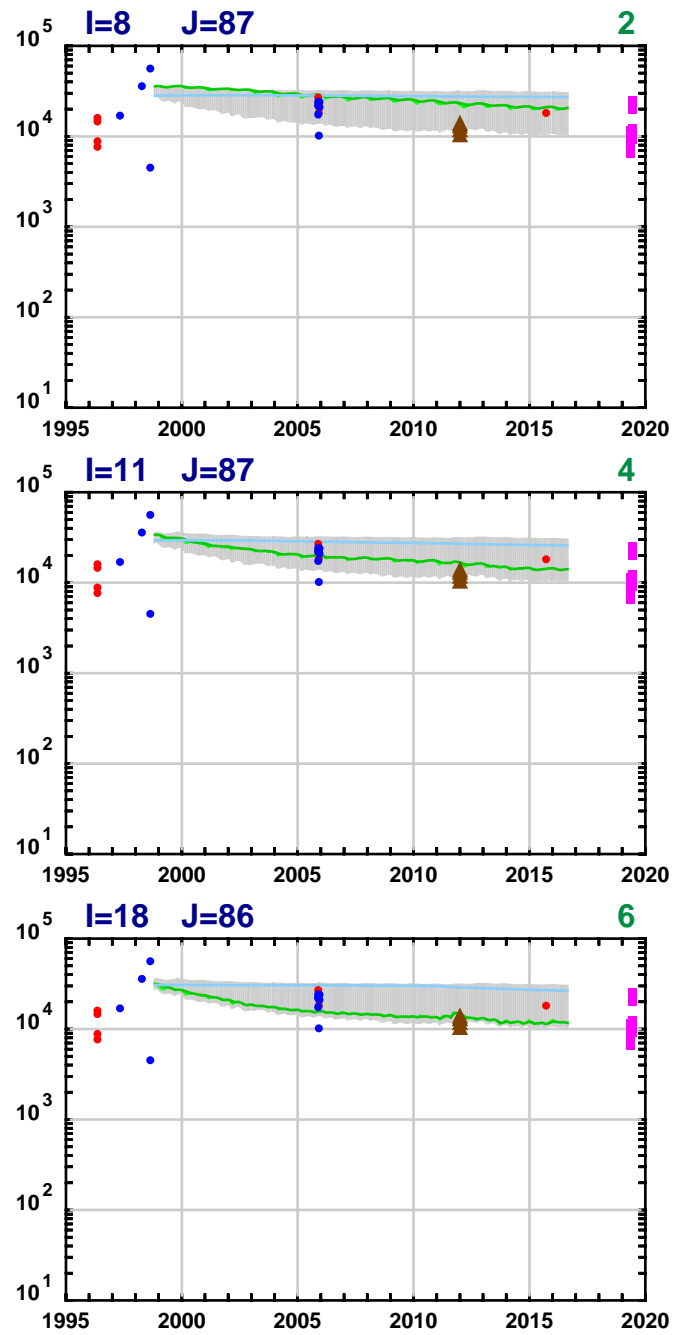
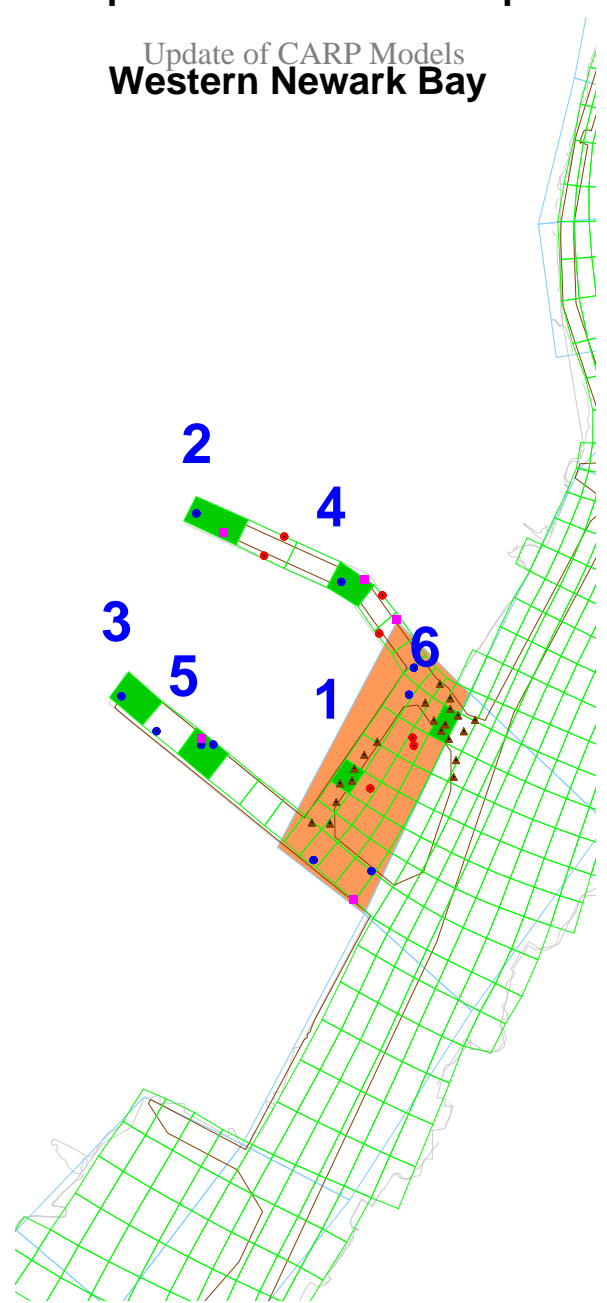
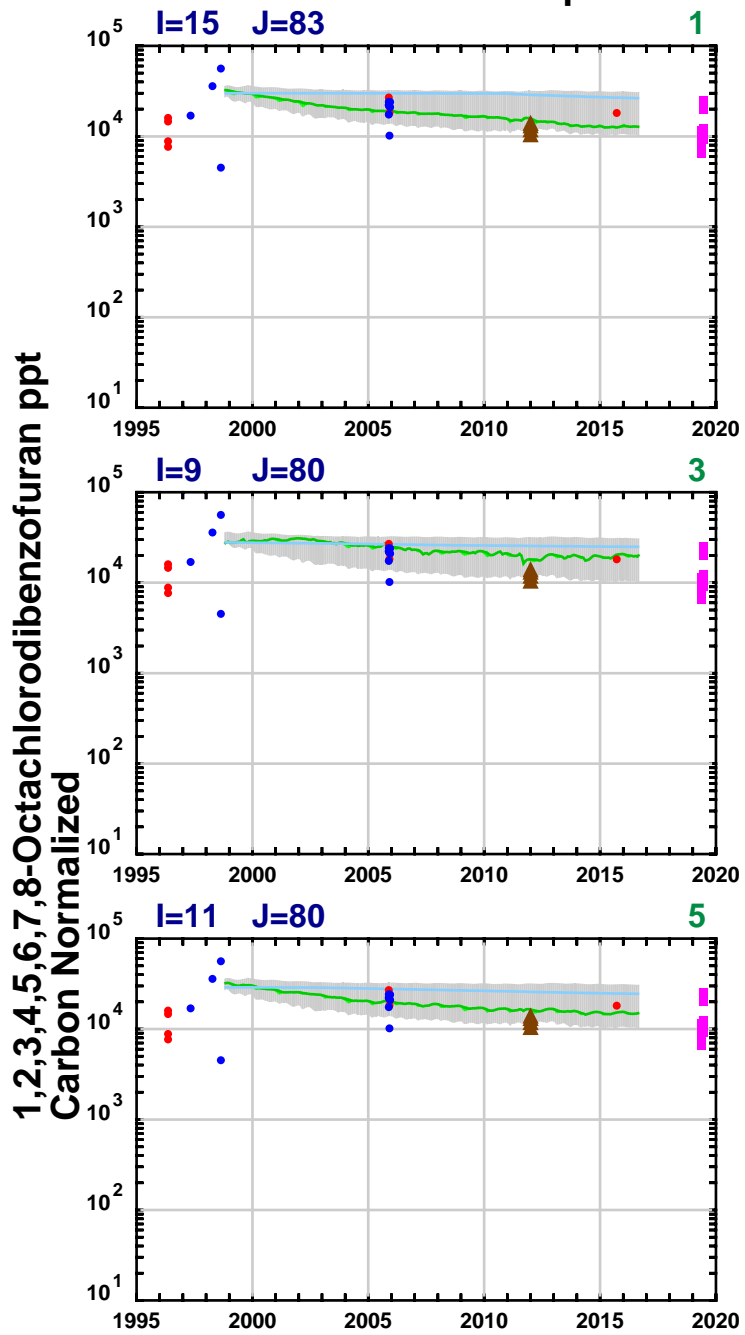
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Western Newark Bay



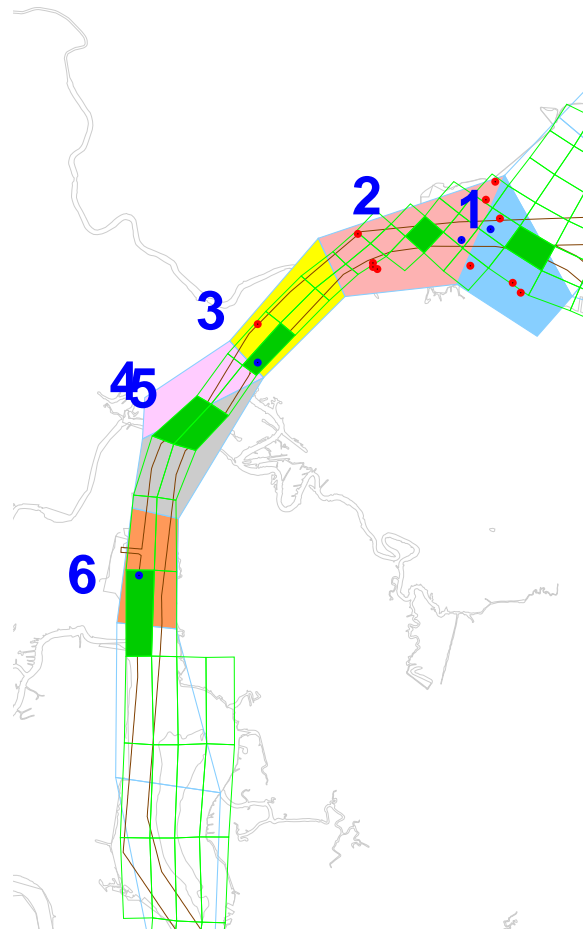
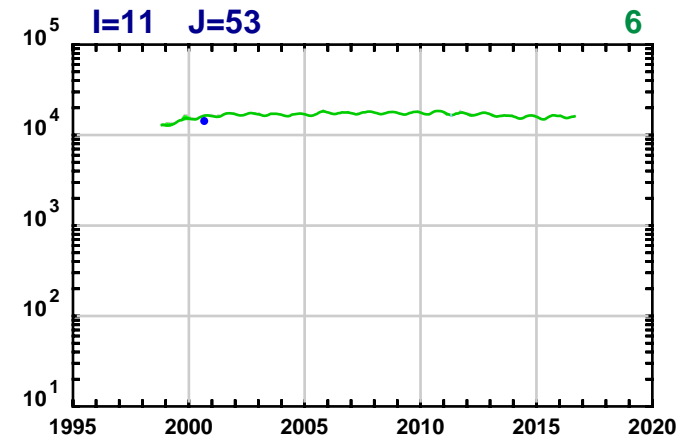
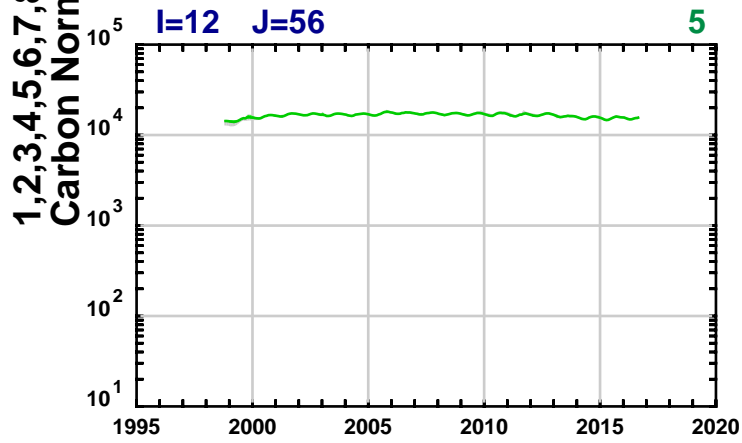
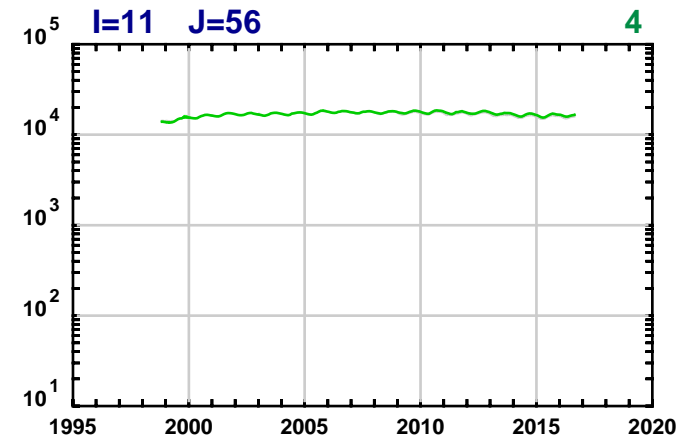
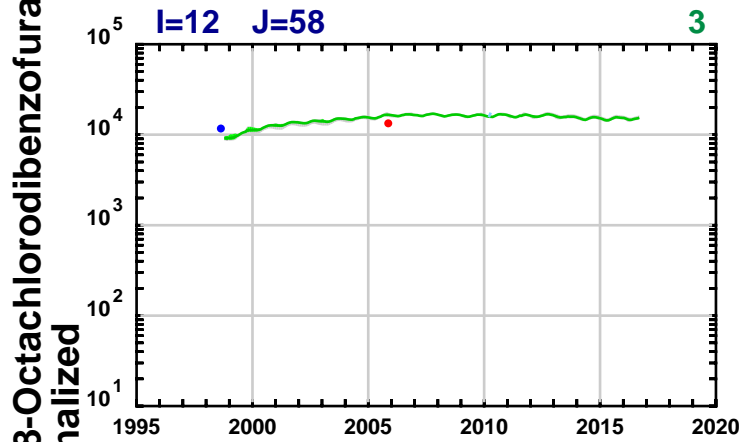
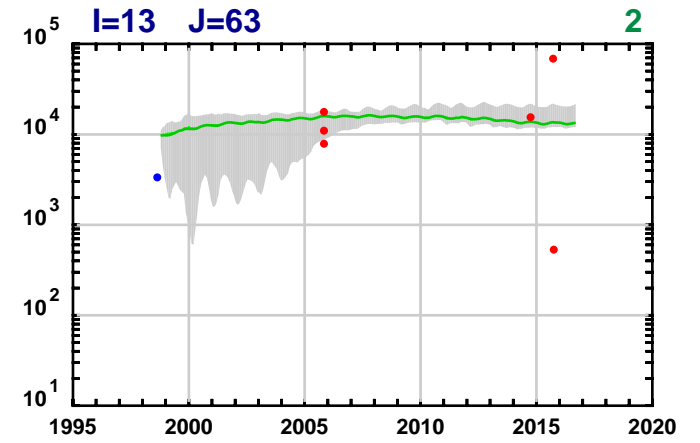
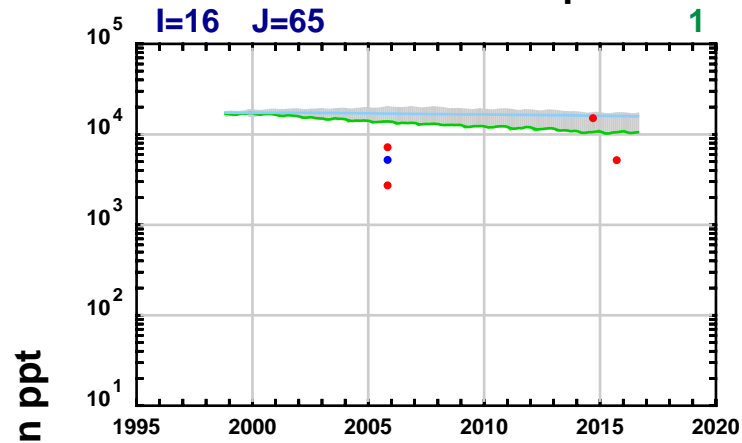
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

Update of CARP Models  
Arthur Kill 1



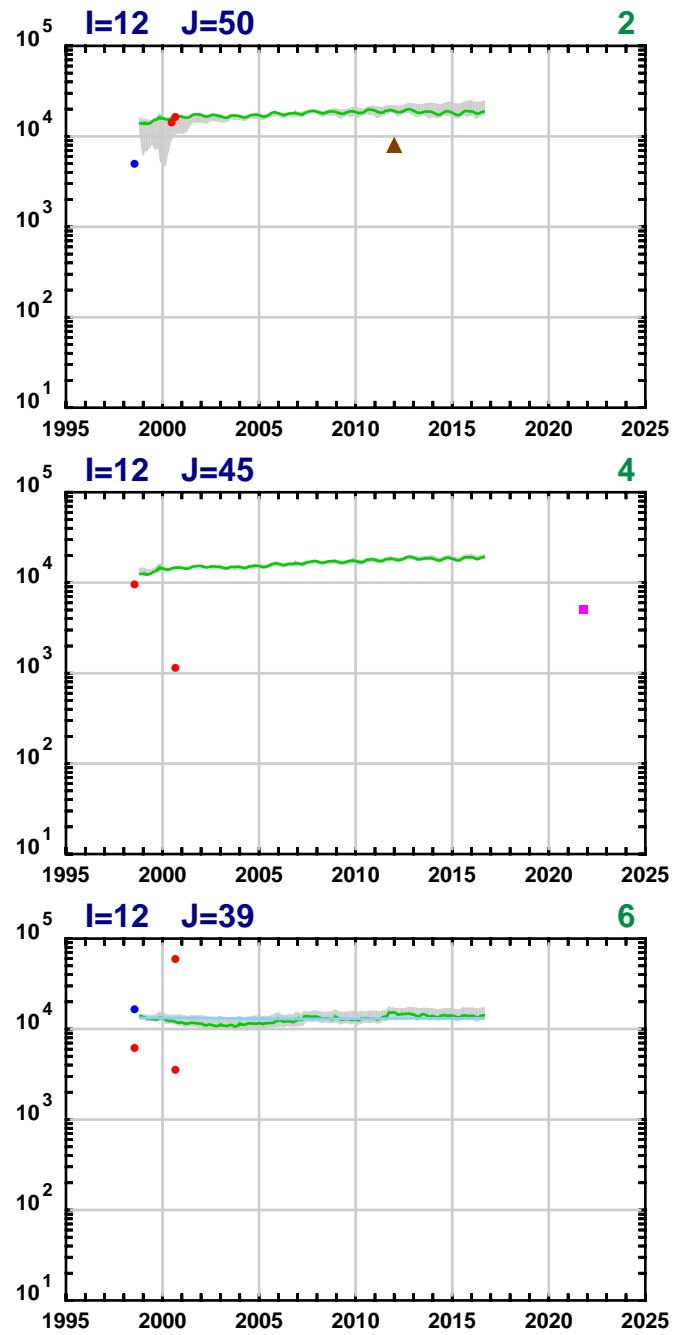
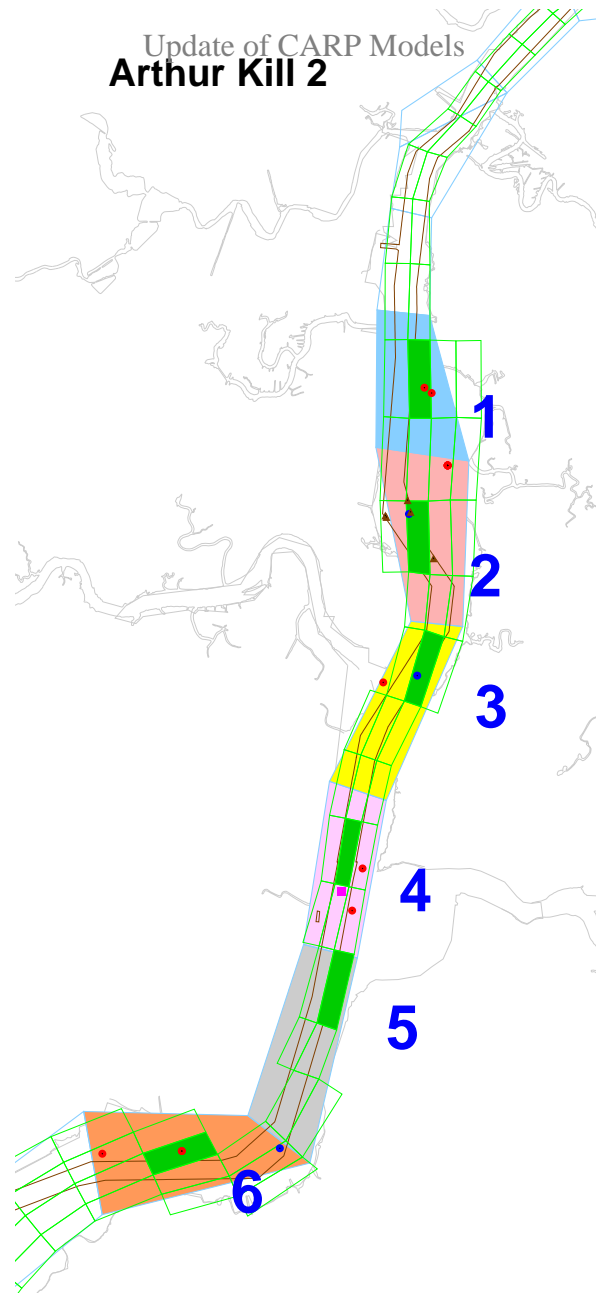
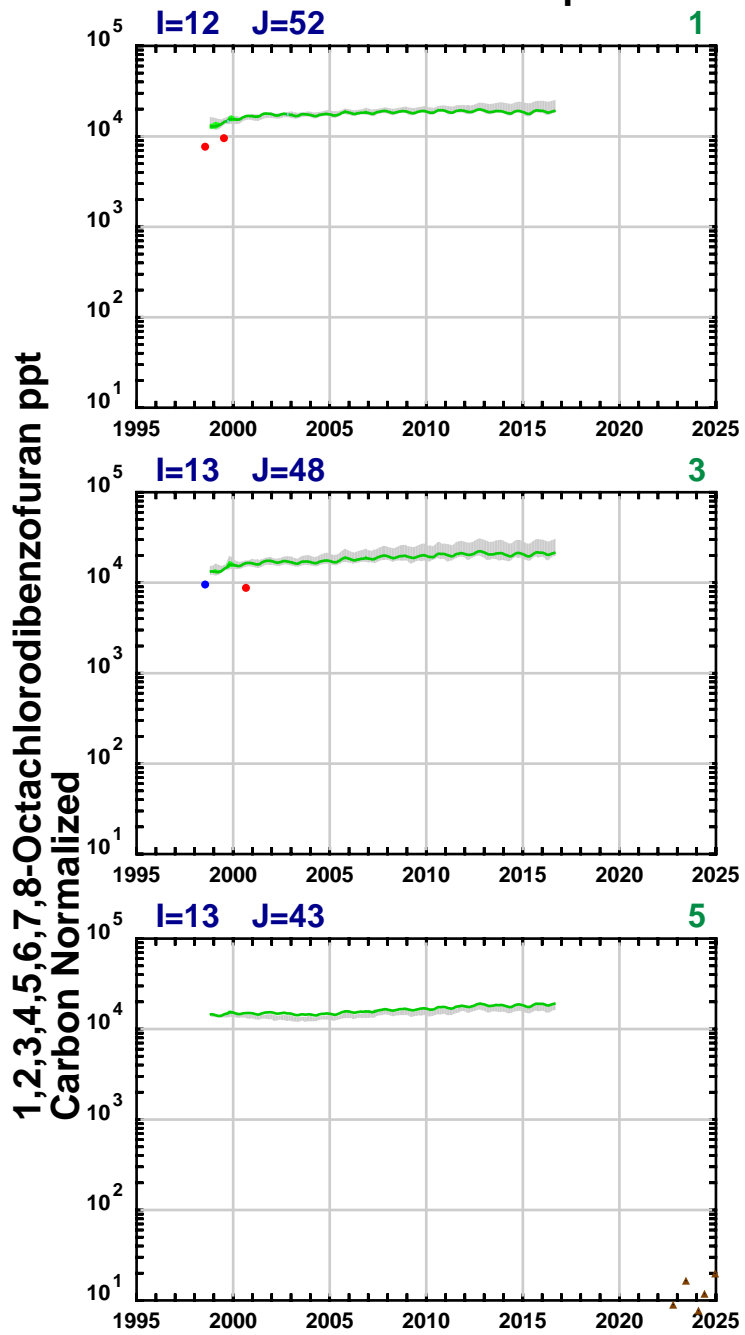
1,2,3,4,5,6,7,8-Octachlorodibenzofuran ppt  
Carbon Normalized

RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

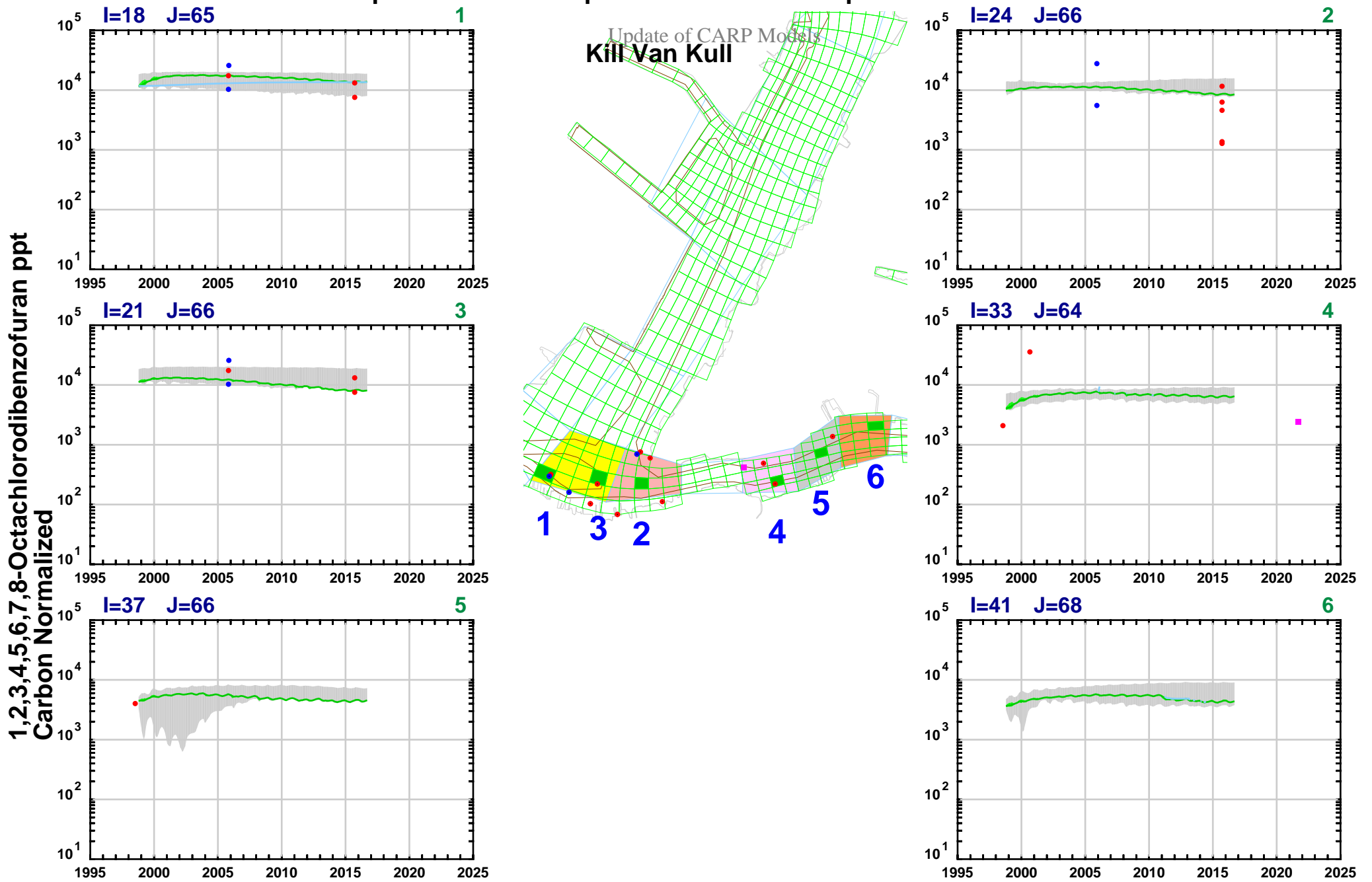


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

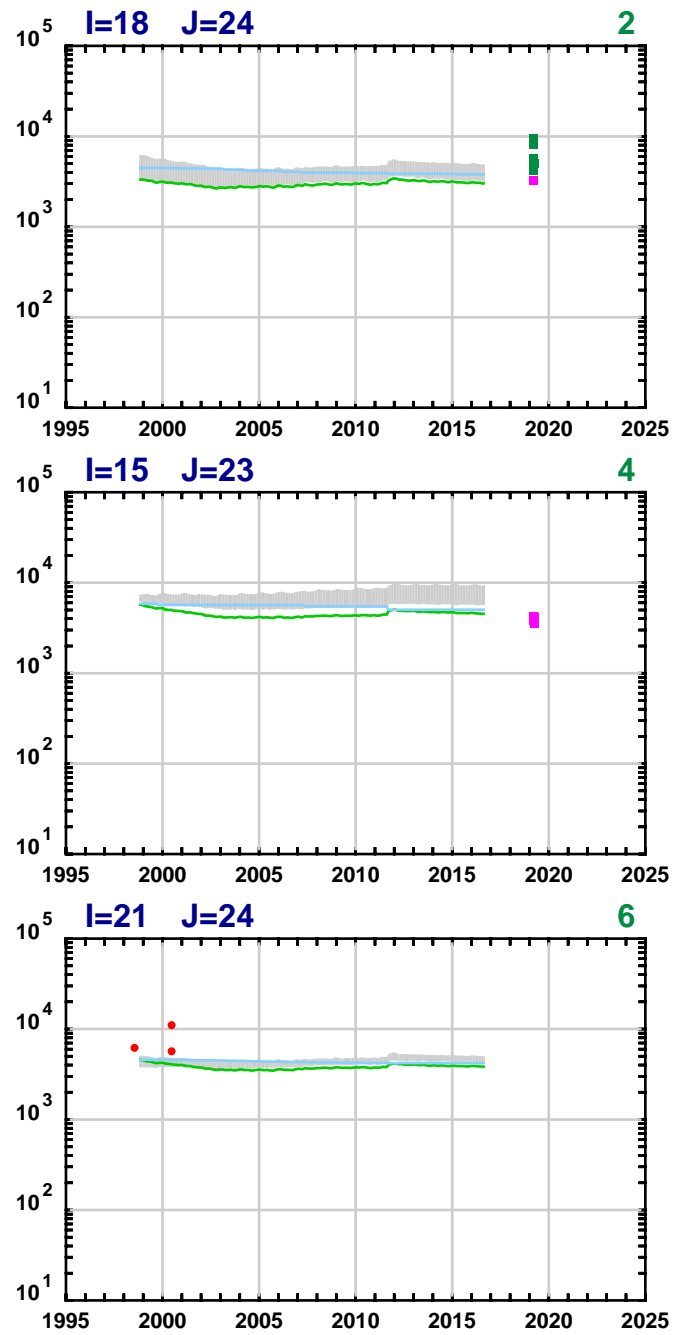
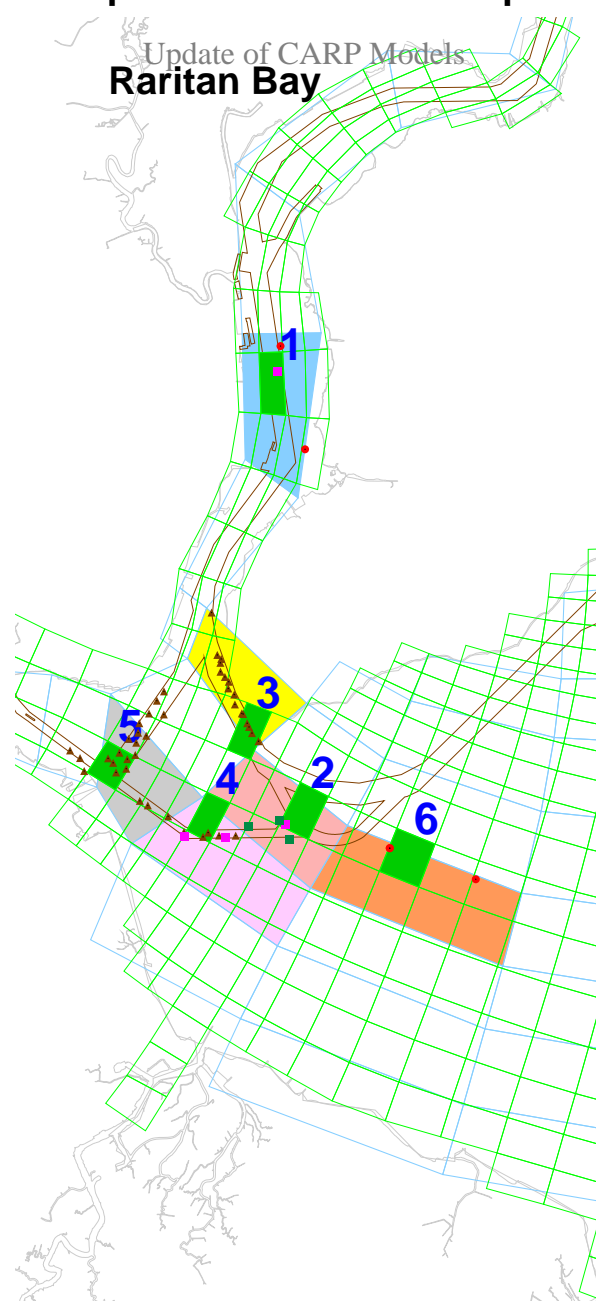
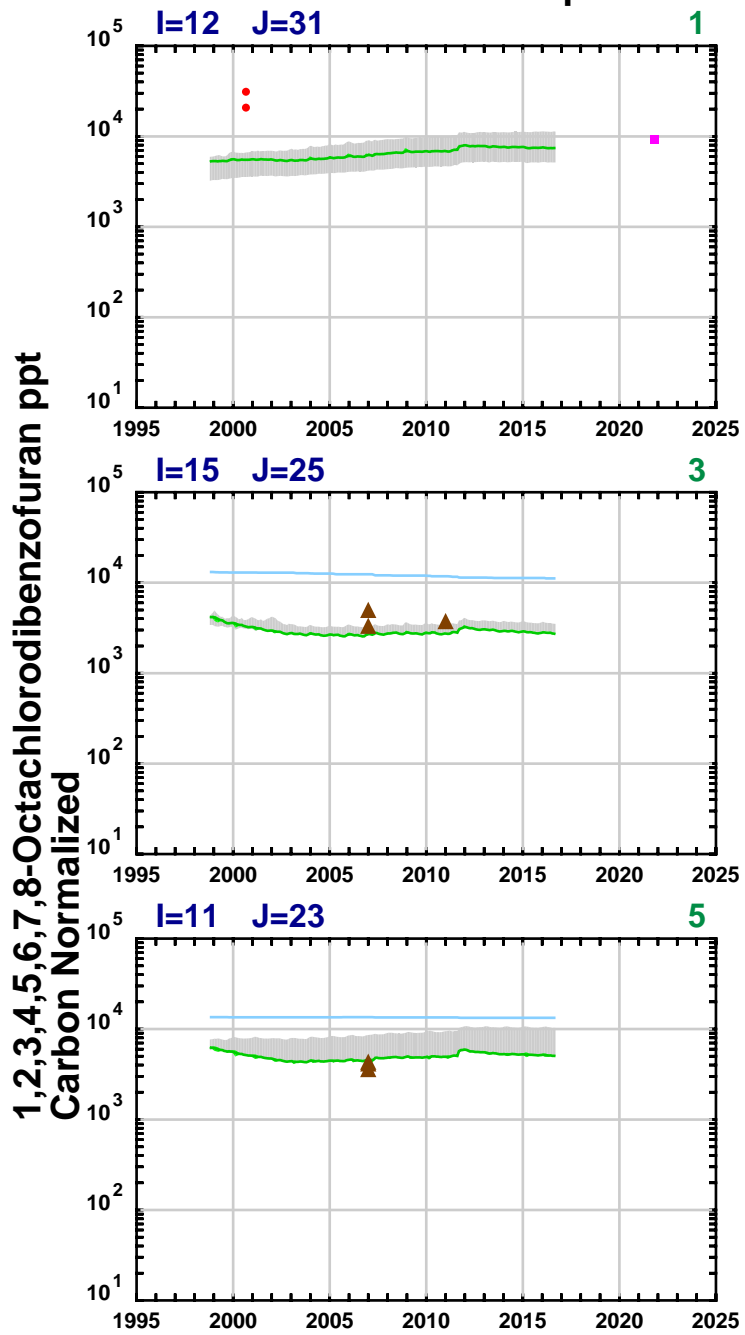


**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

● In-channel data    ● Off-channel data    ▲ Dredge data  
 ■ CARP2 In-channel    ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



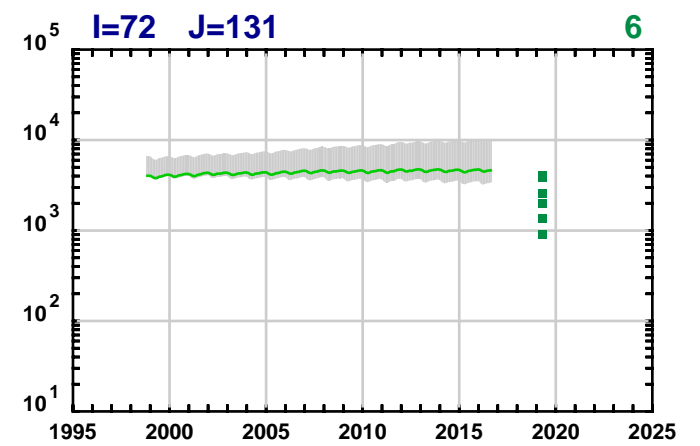
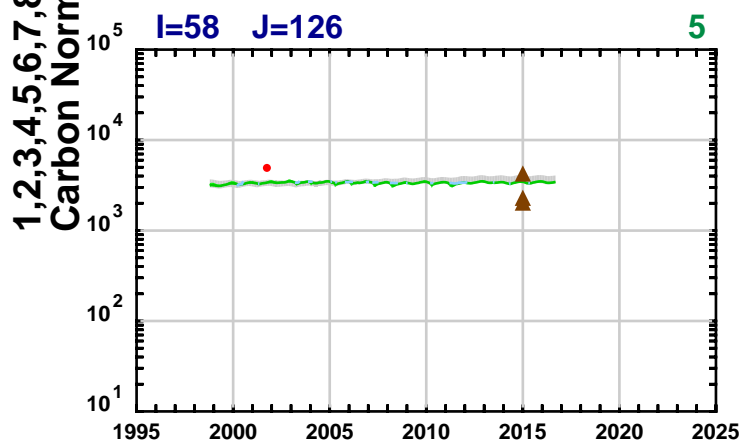
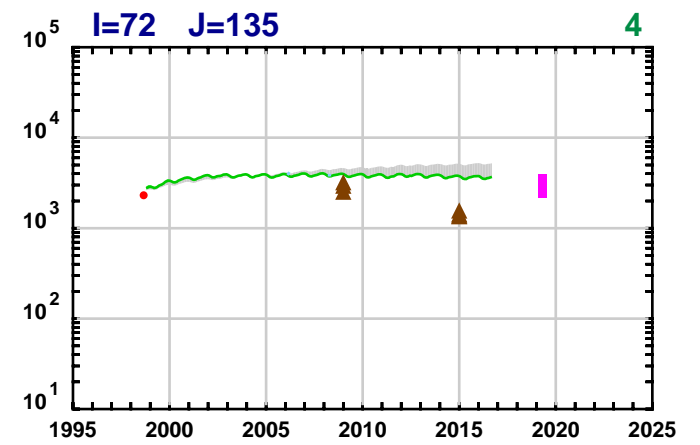
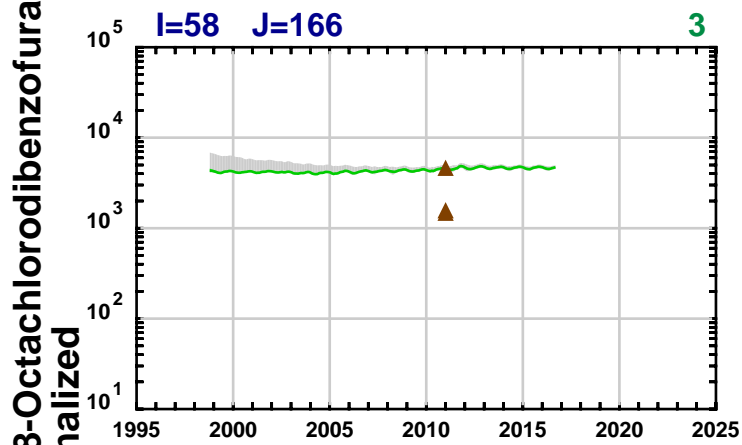
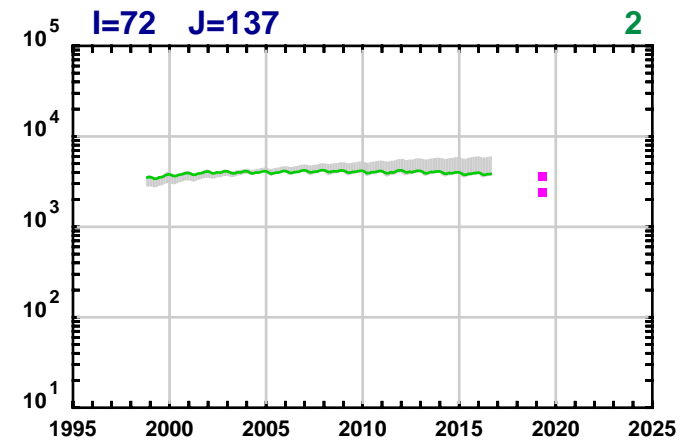
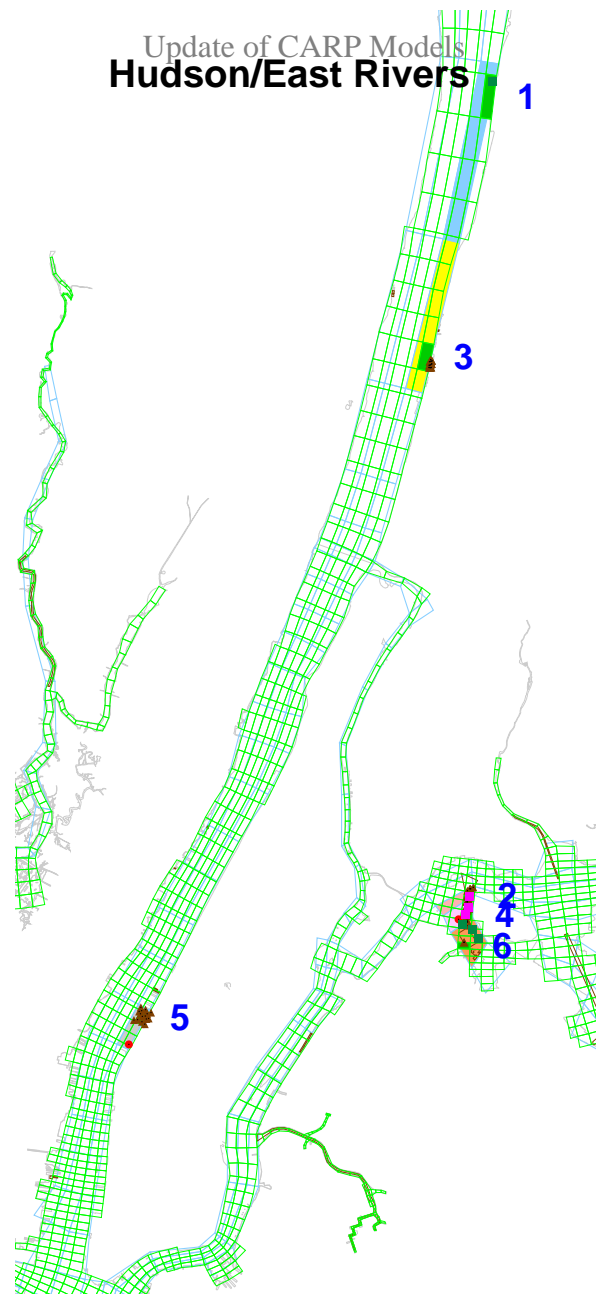
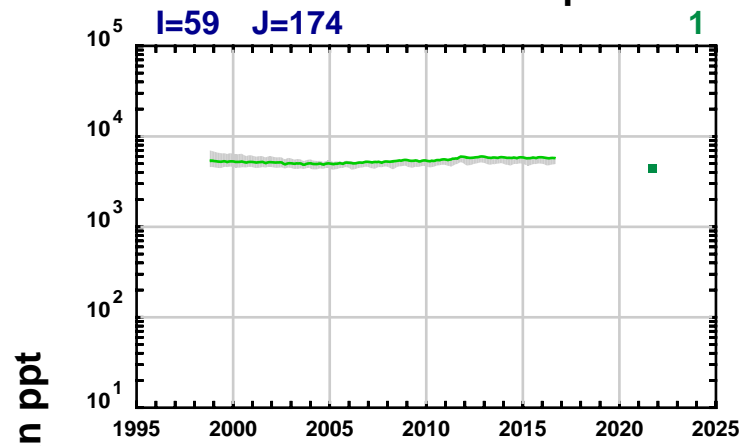
RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel



# Top 15 cm data comparison with model top 10 cm sediment



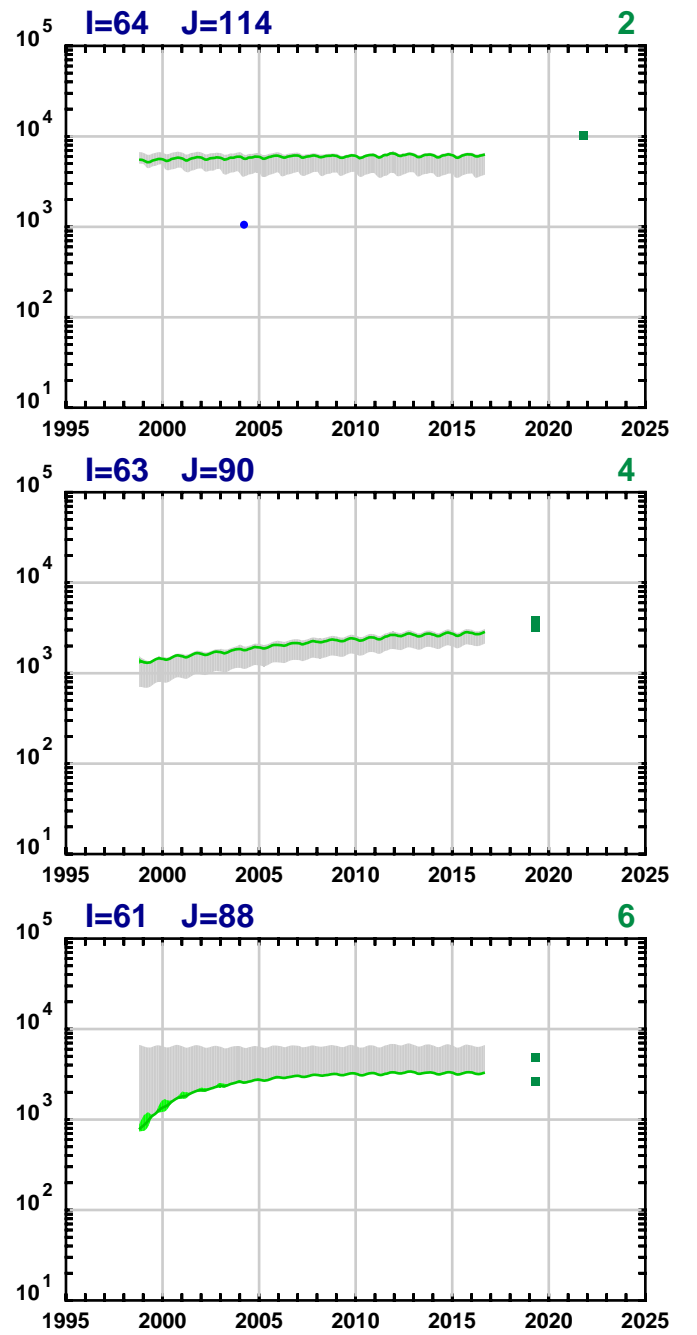
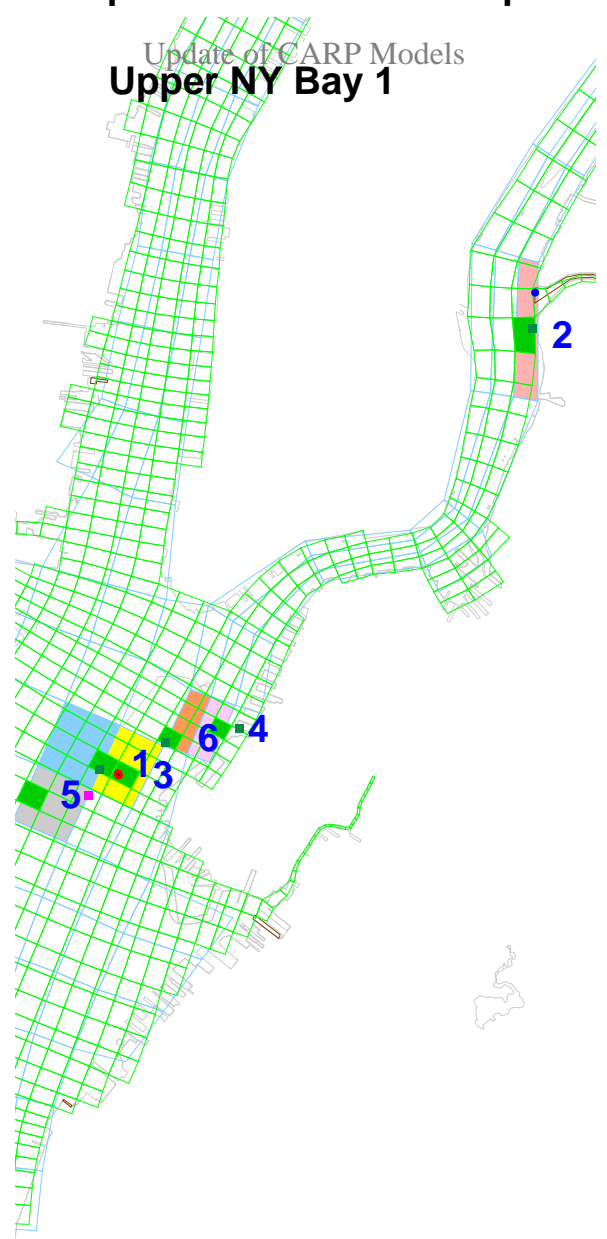
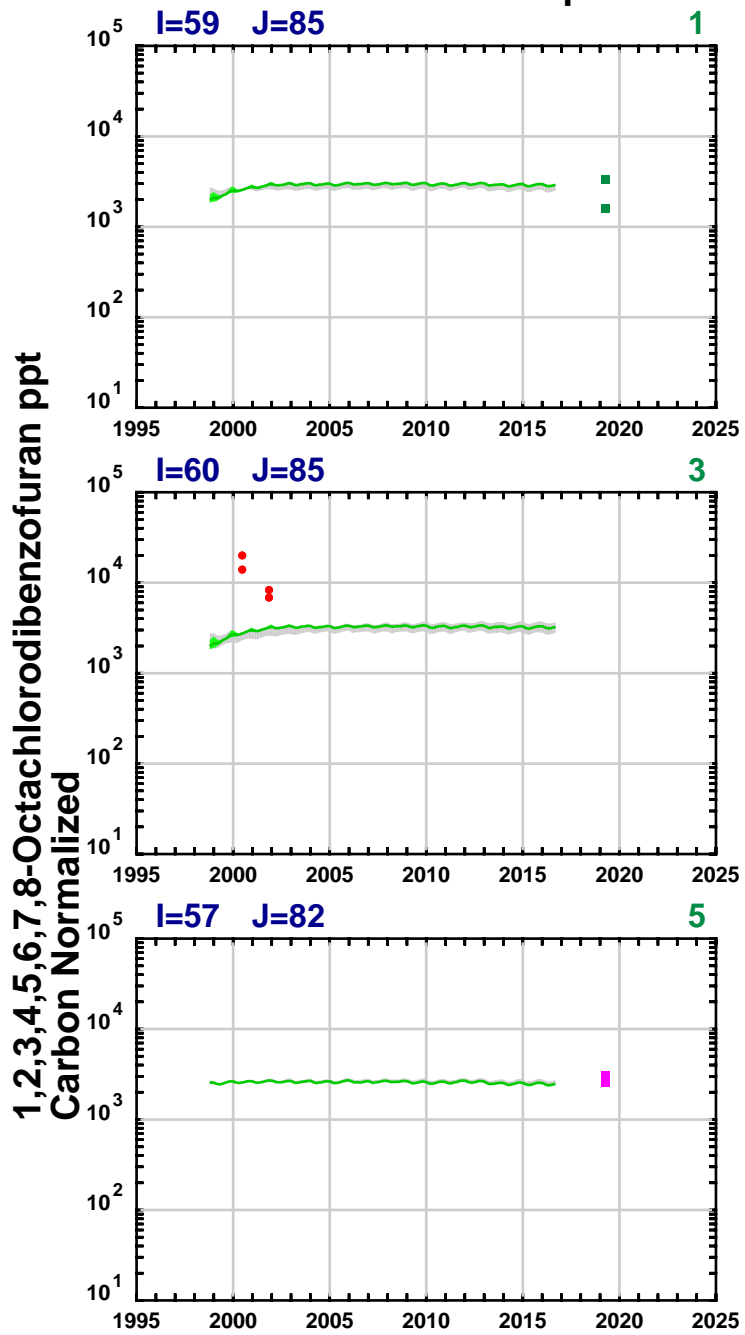
1,2,3,4,5,6,7,8-Octachlorodibenzofuran ppt  
Carbon Normalized

RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

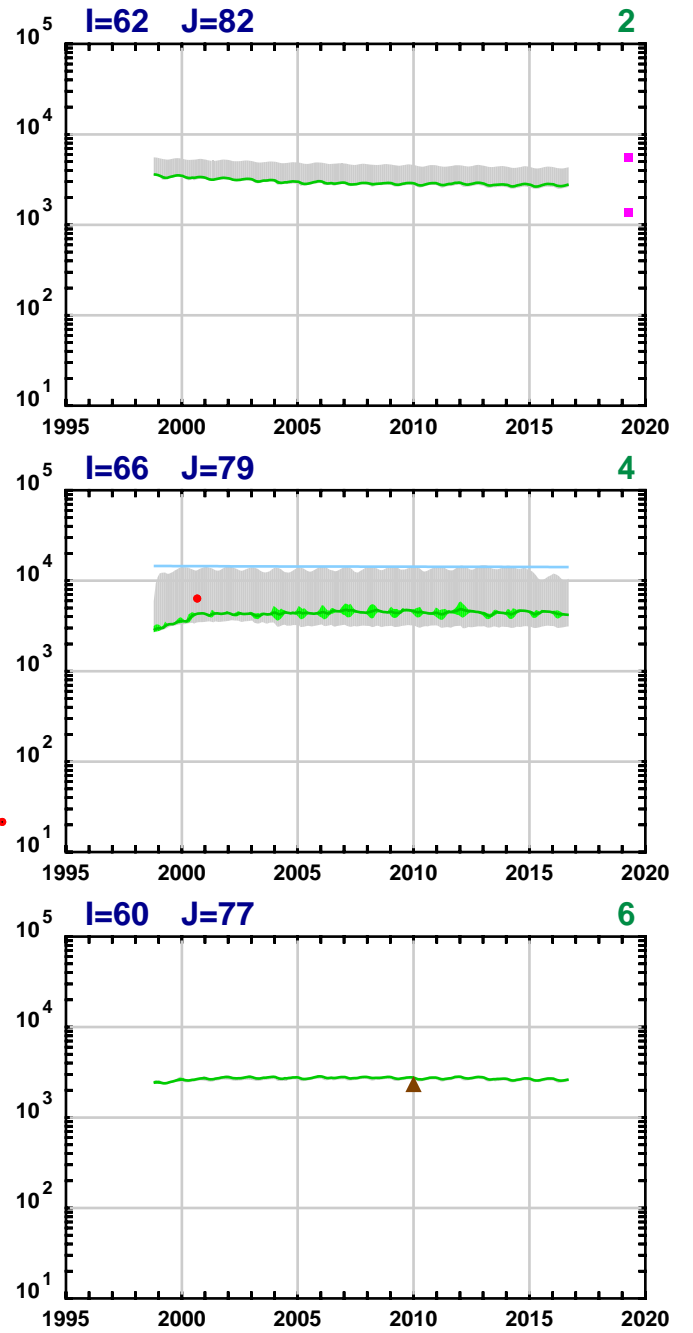
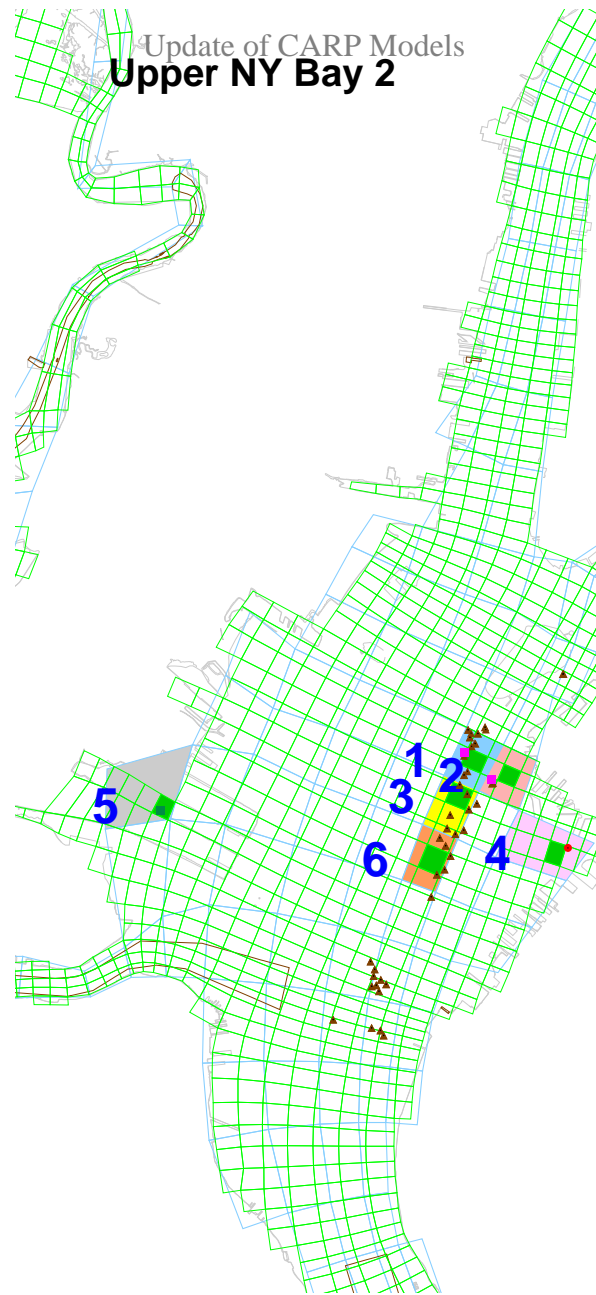
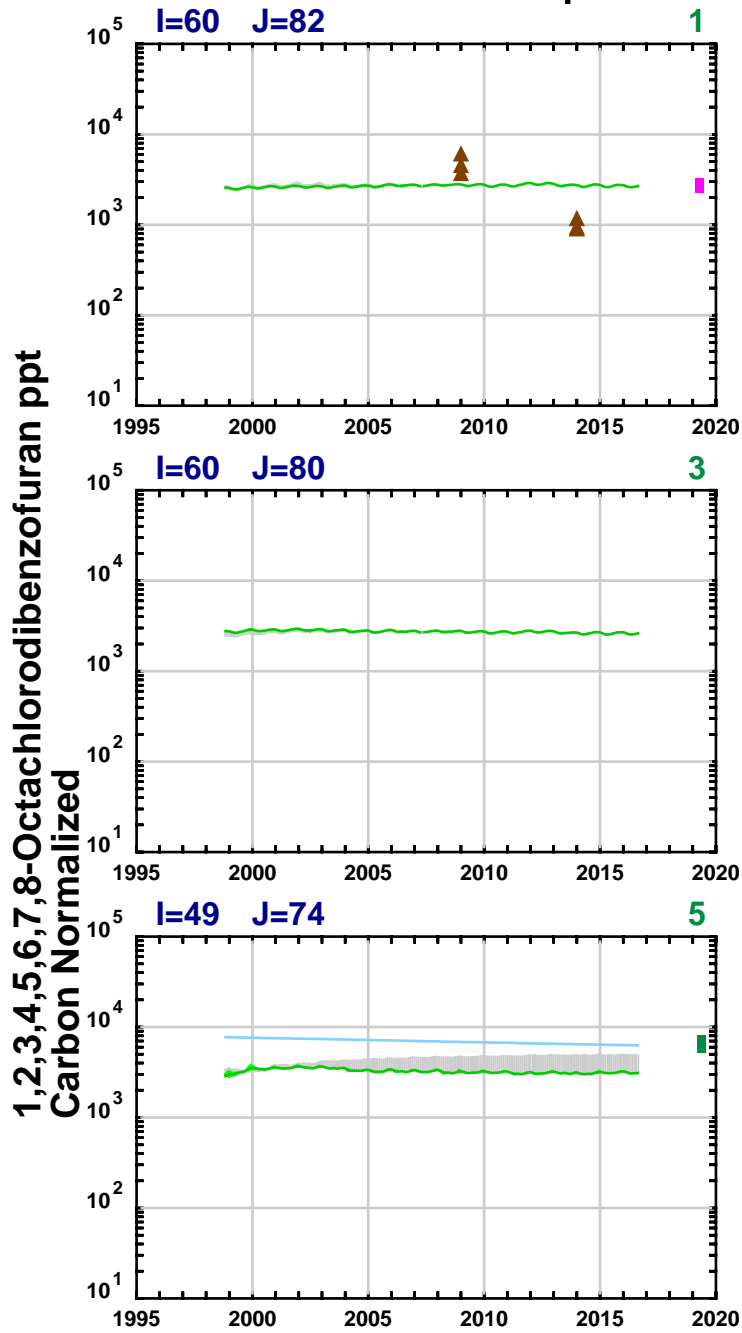


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

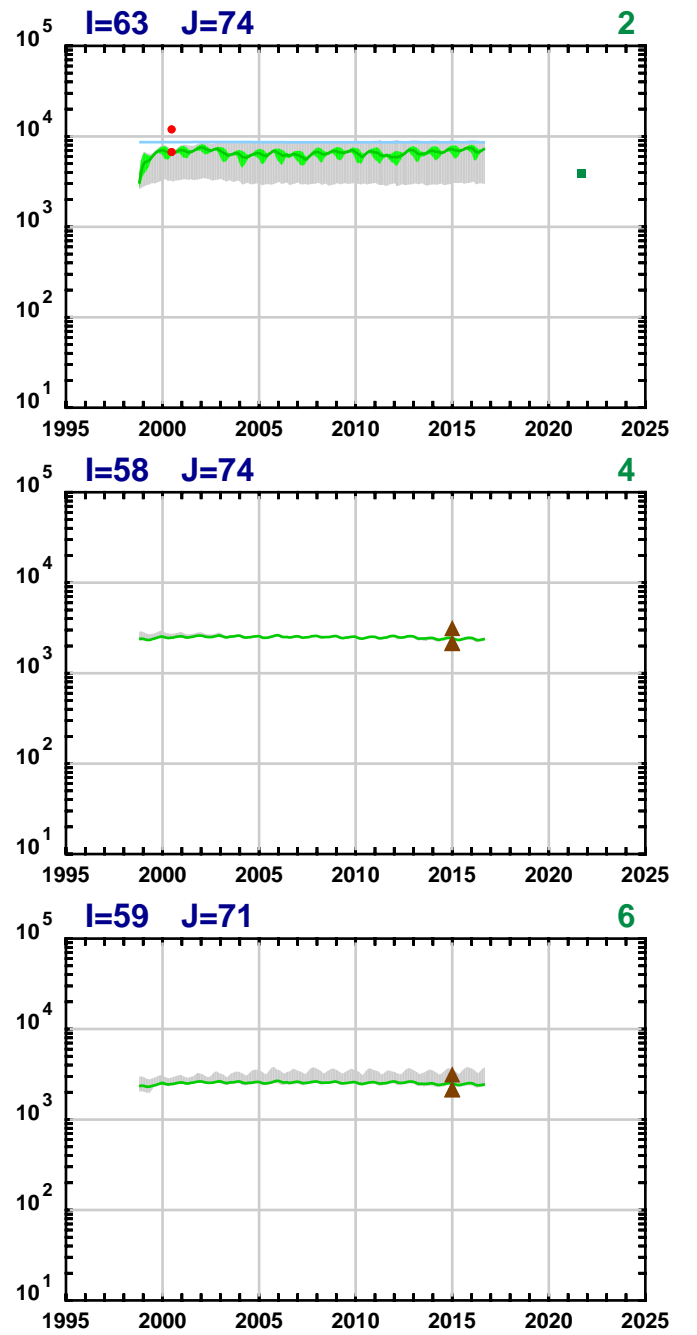
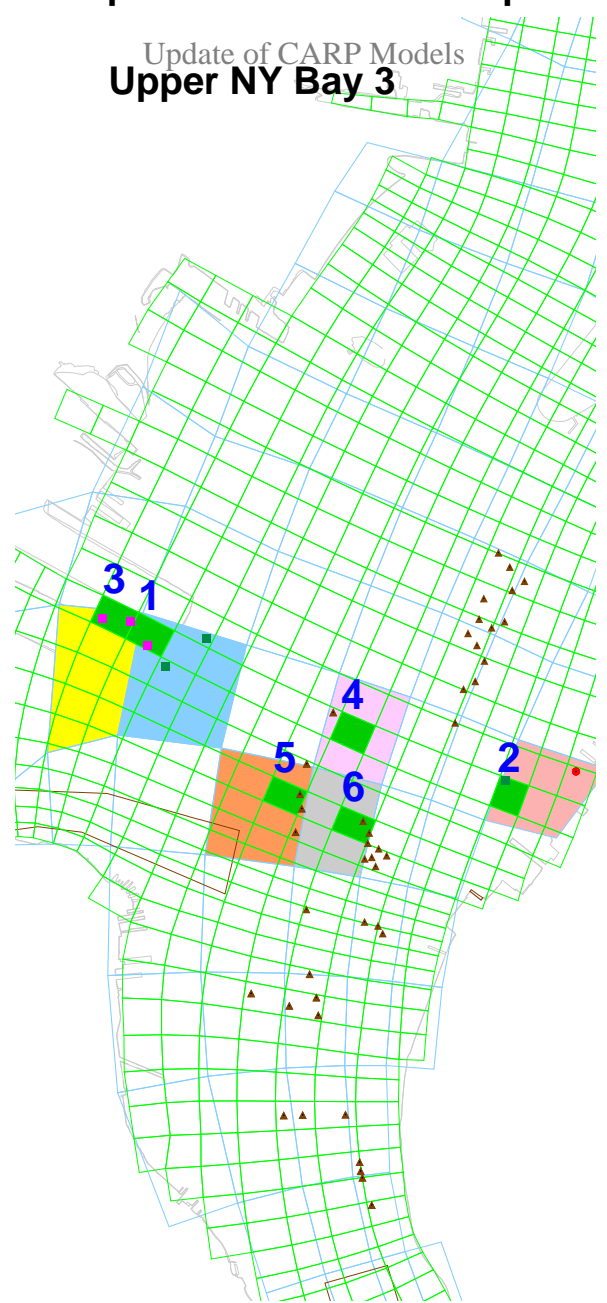
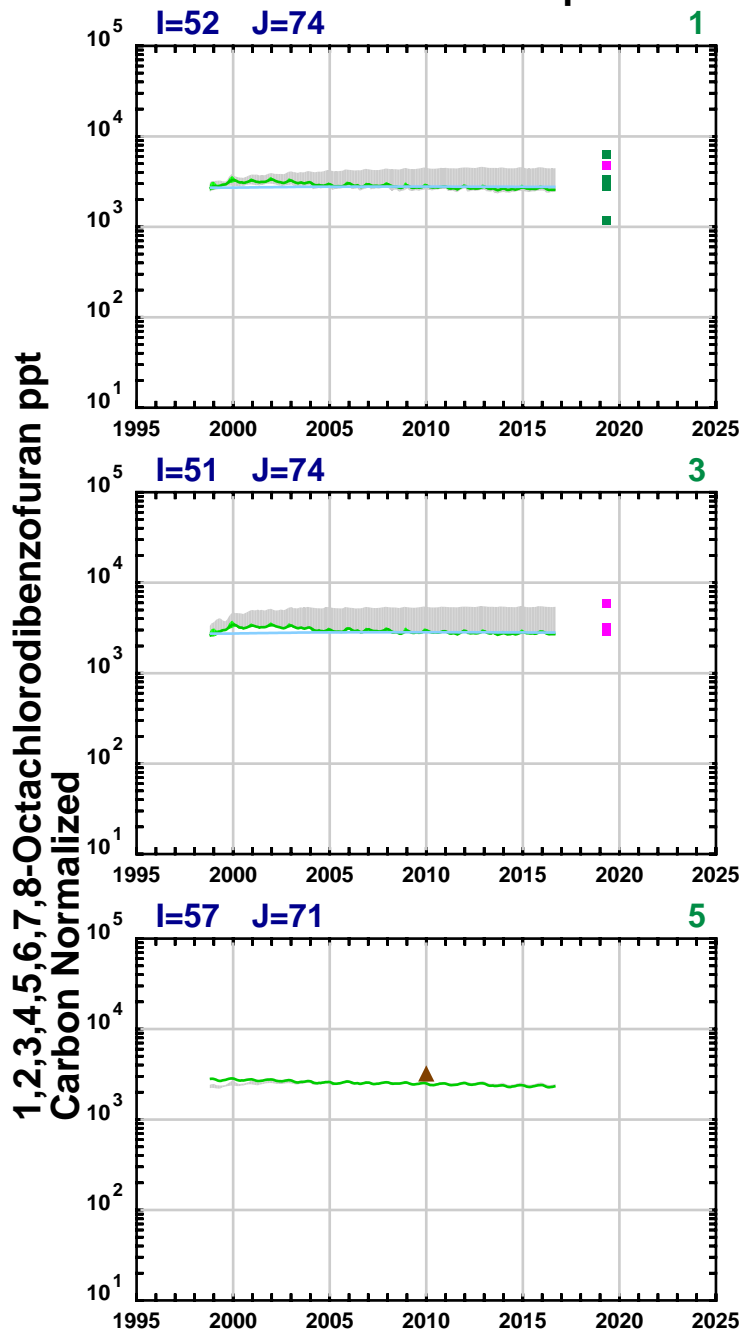


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

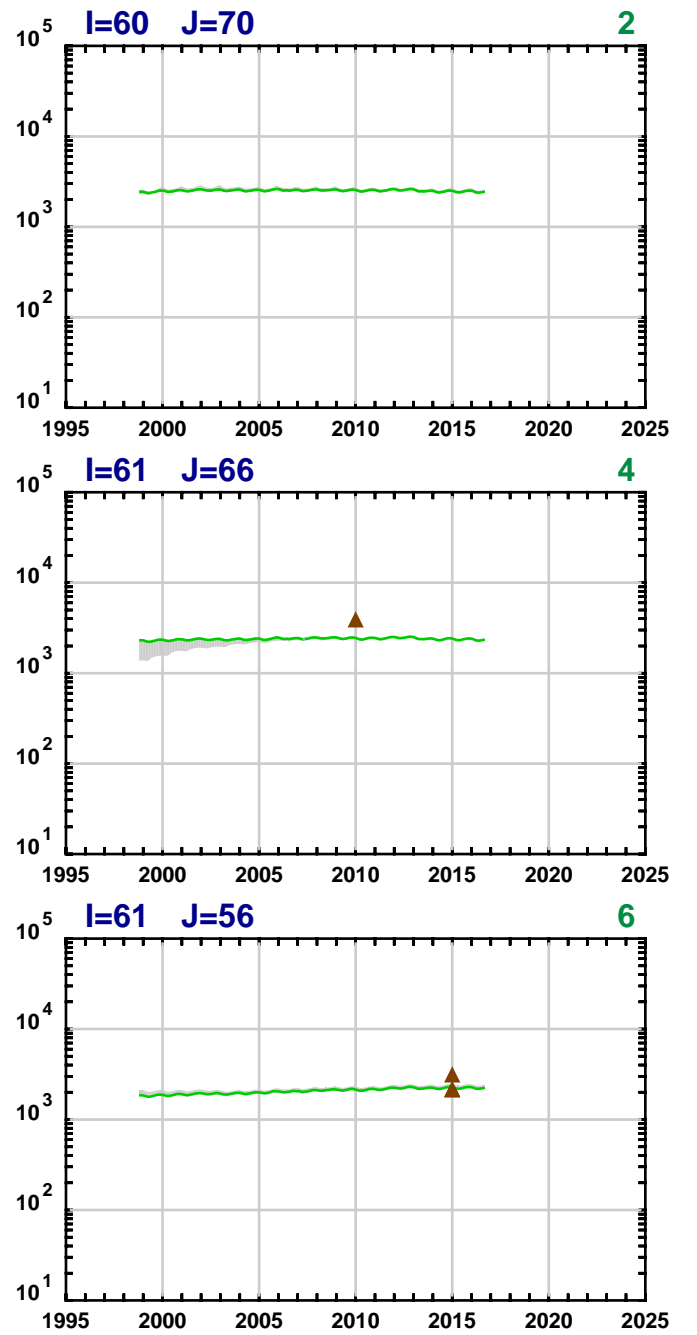
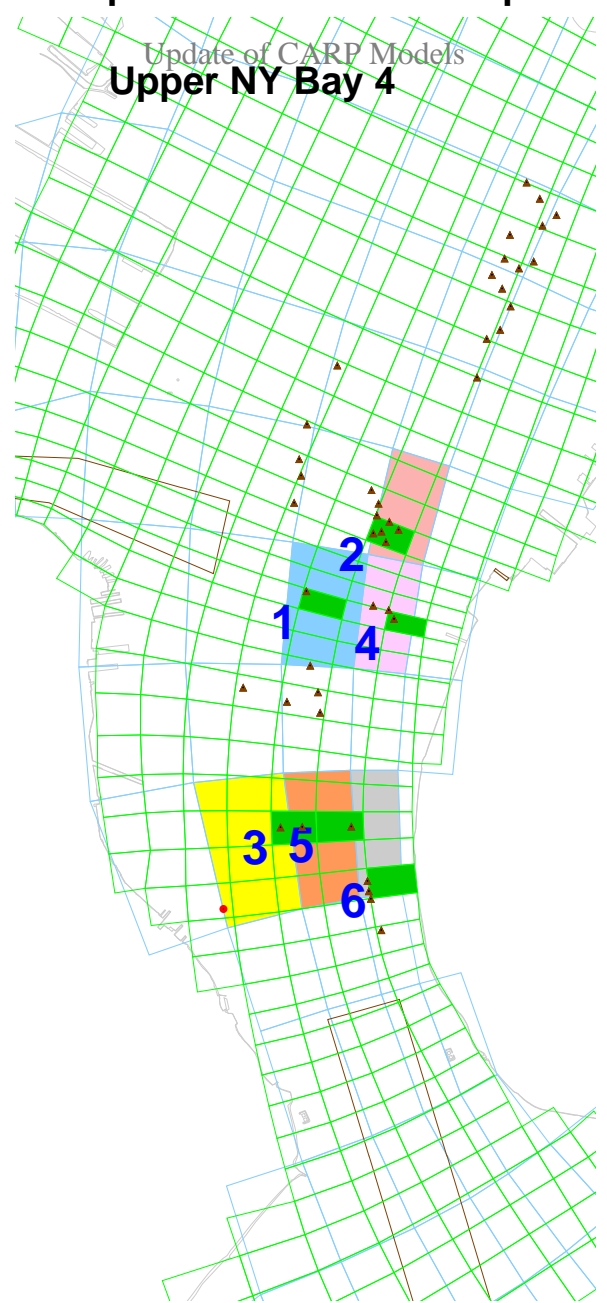
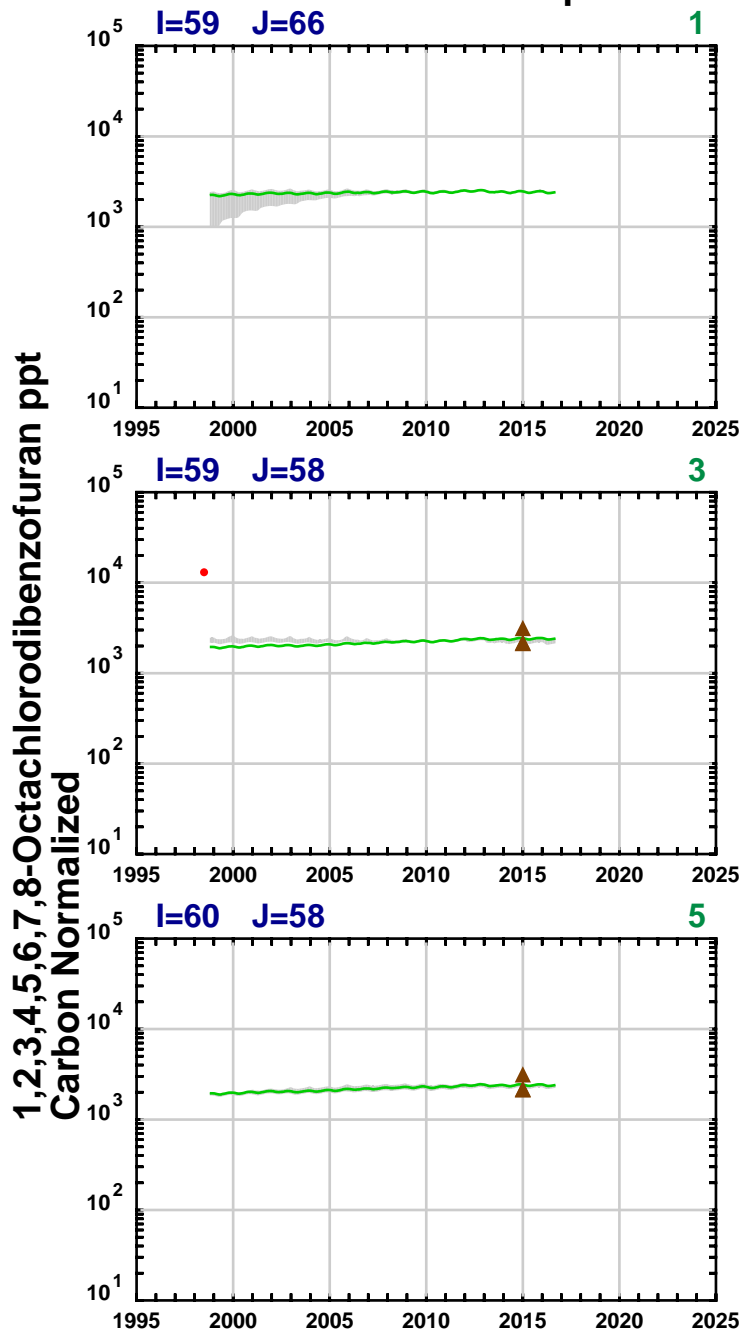


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment

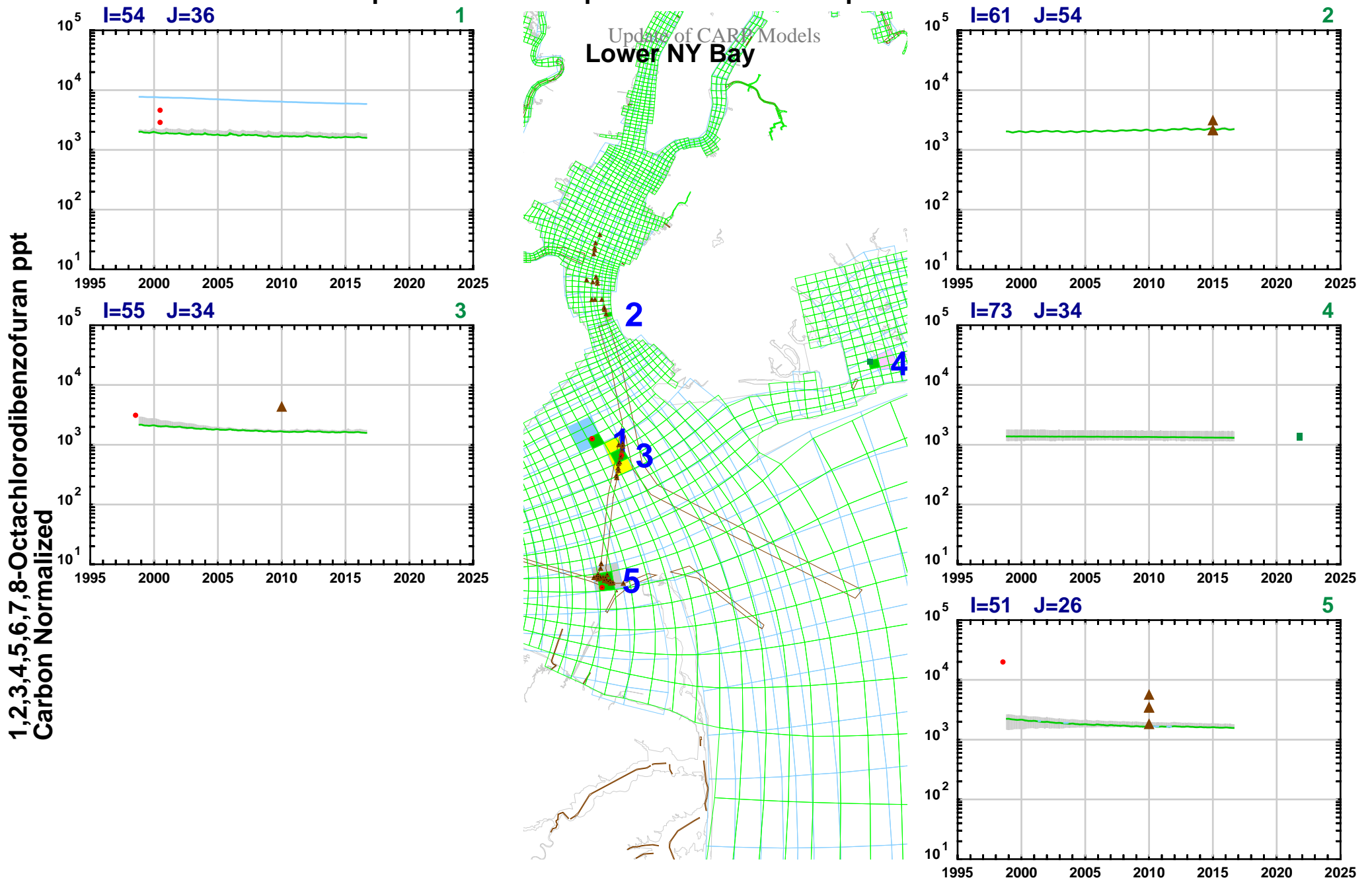


RUN18\_S5\_R2

Model: mean and range of values in top sediment  
Model: mean and range of values in bottom sediment

● In-channel data ● Off-channel data ▲ Dredge data  
■ CARP2 In-channel ■ CARP2 Off-channel

# Top 15 cm data comparison with model top 10 cm sediment



**RUN18\_S5\_R2**

**Model: mean and range of values in top sediment**  
**Model: mean and range of values in bottom sediment**

**● In-channel data**    **● Off-channel data**    **▲ Dredge data**  
**■ CAPP2 In-channel**    **■ CAPP2 Off-channel**