

Inputs for MyLake-Sediment Model

Lake Erie

I. Markelov, B. McNeil

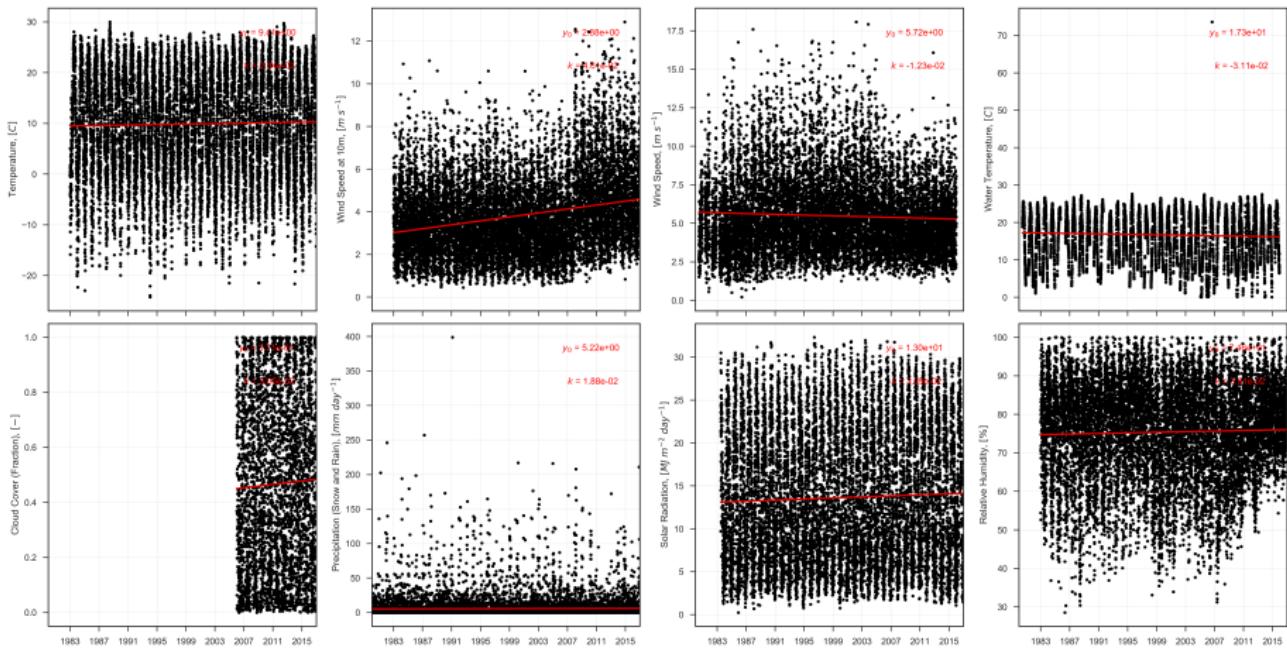
Ecohydrology

February 16, 2017

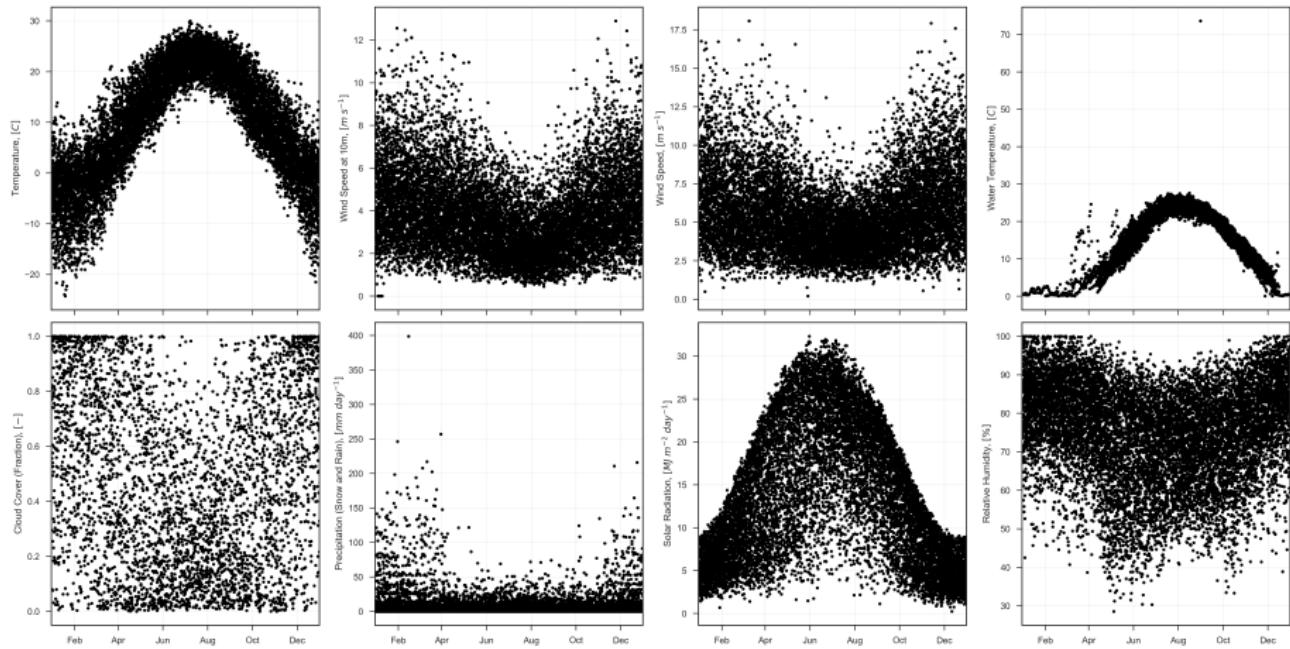
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 - Central Basin
 - Eastern Basin
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 - Eastern basin
 - Central Basin
 - Western basin

Weather

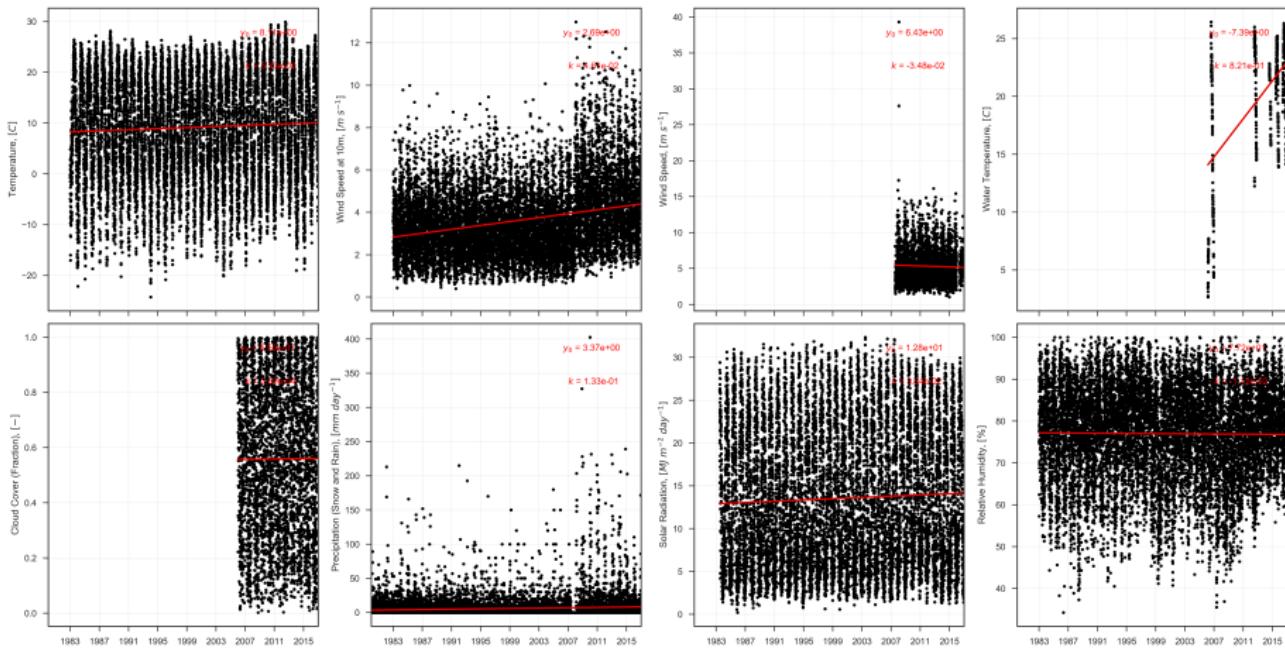
Western Basin: All years



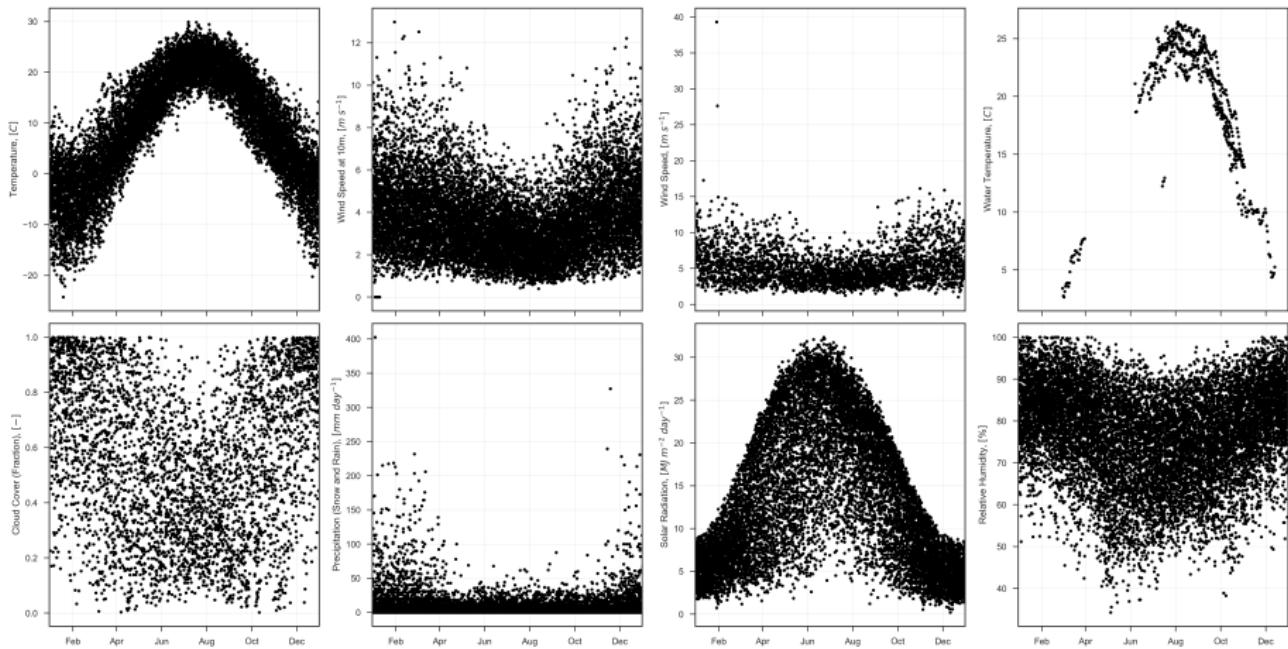
Western Basin: 1 year



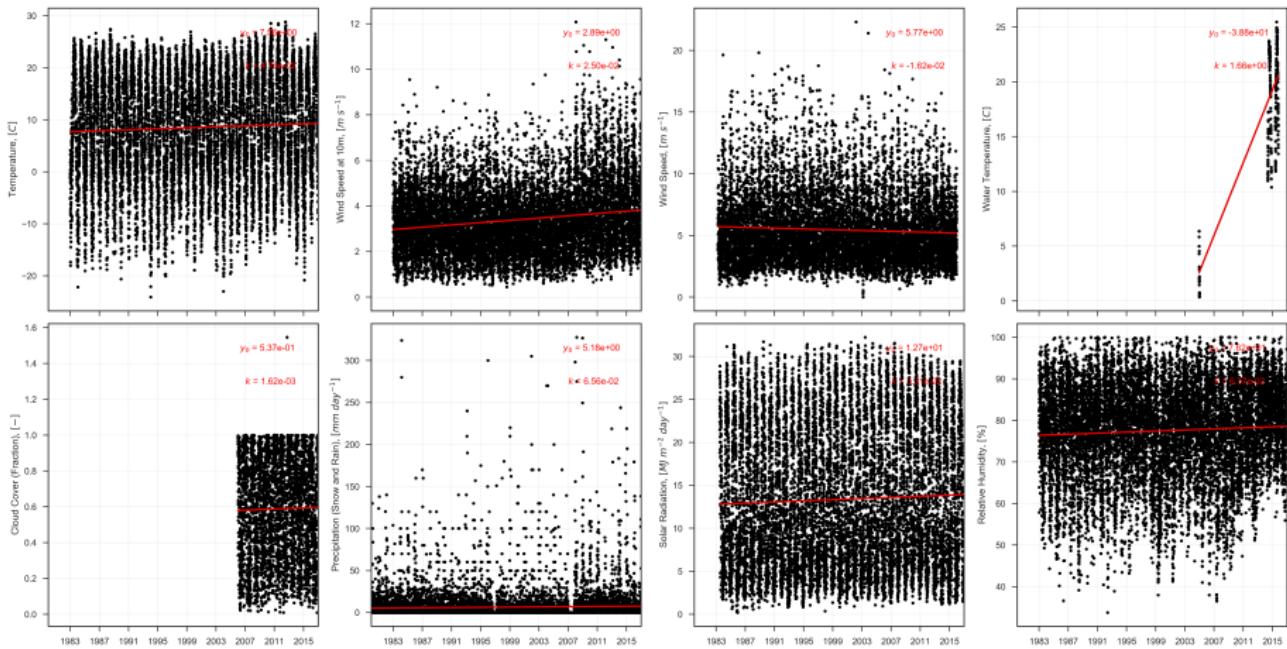
Central Basin: All years



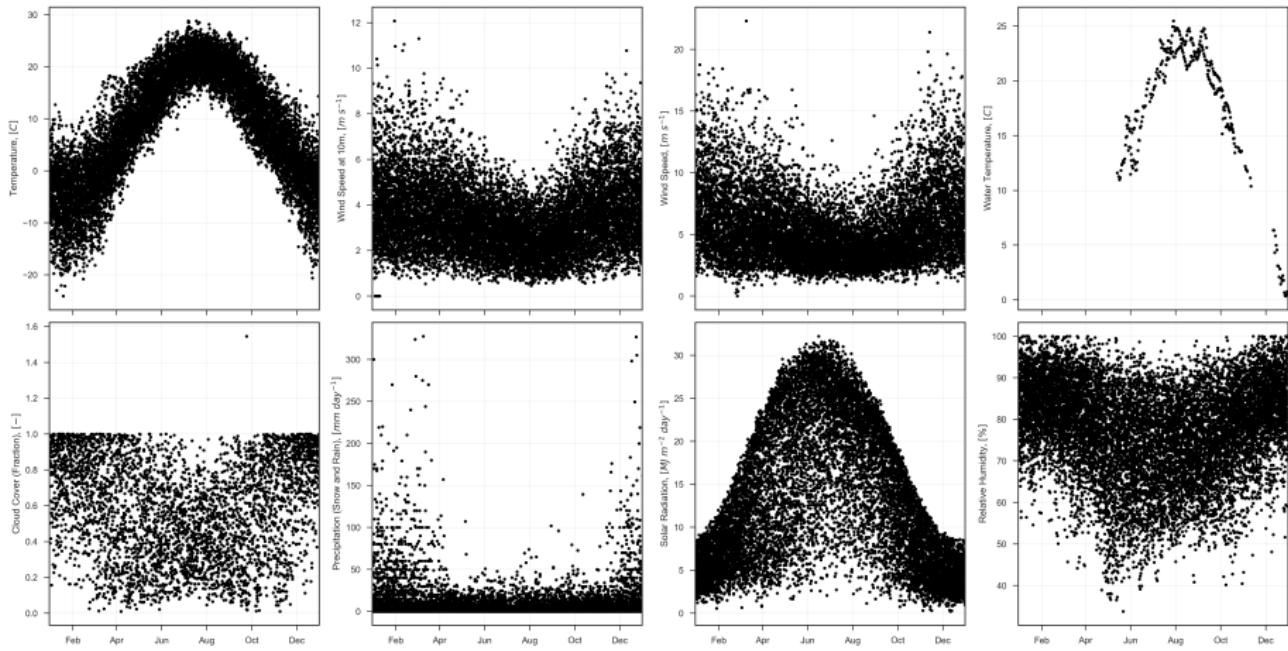
Central Basin: 1 year



Eastern Basin: All years

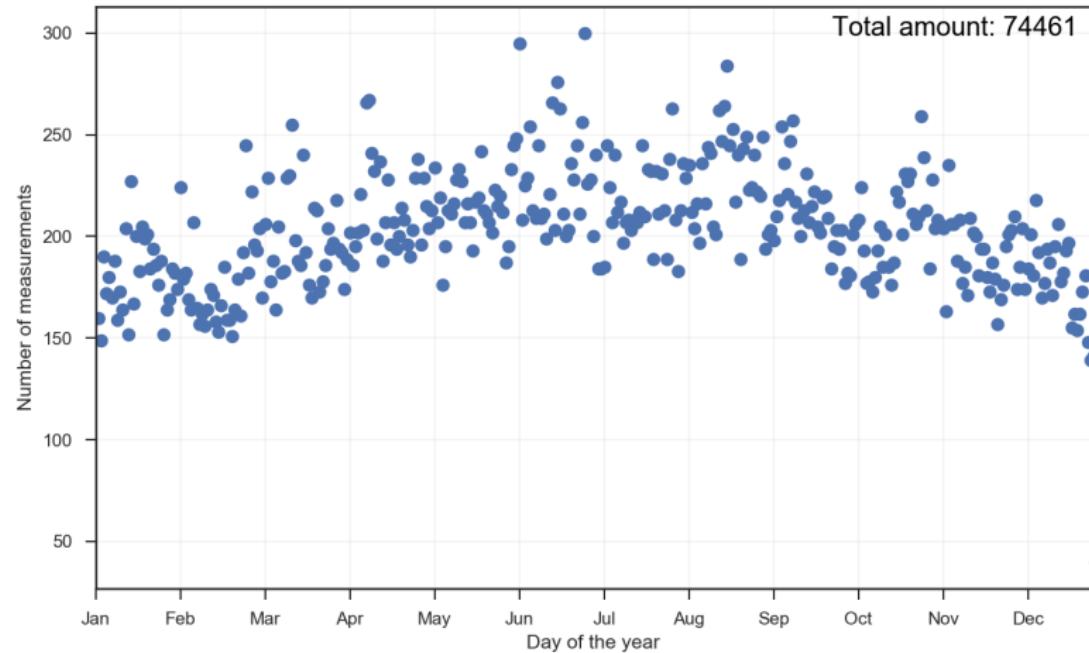


Eastern Basin: 1 year

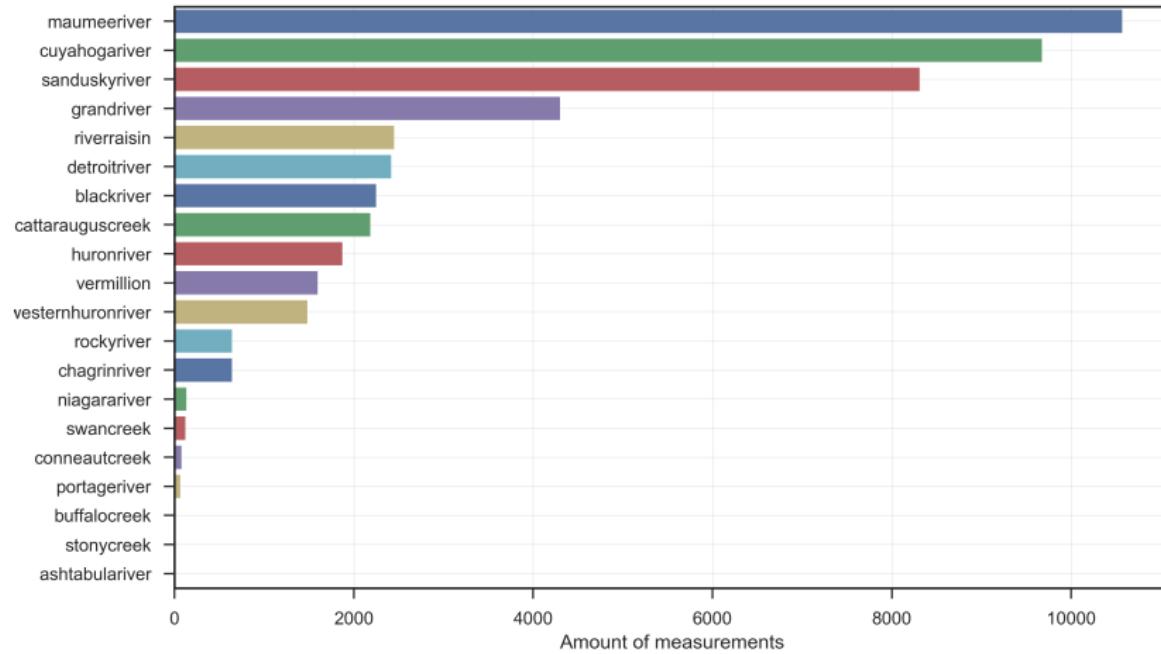


River Inputs

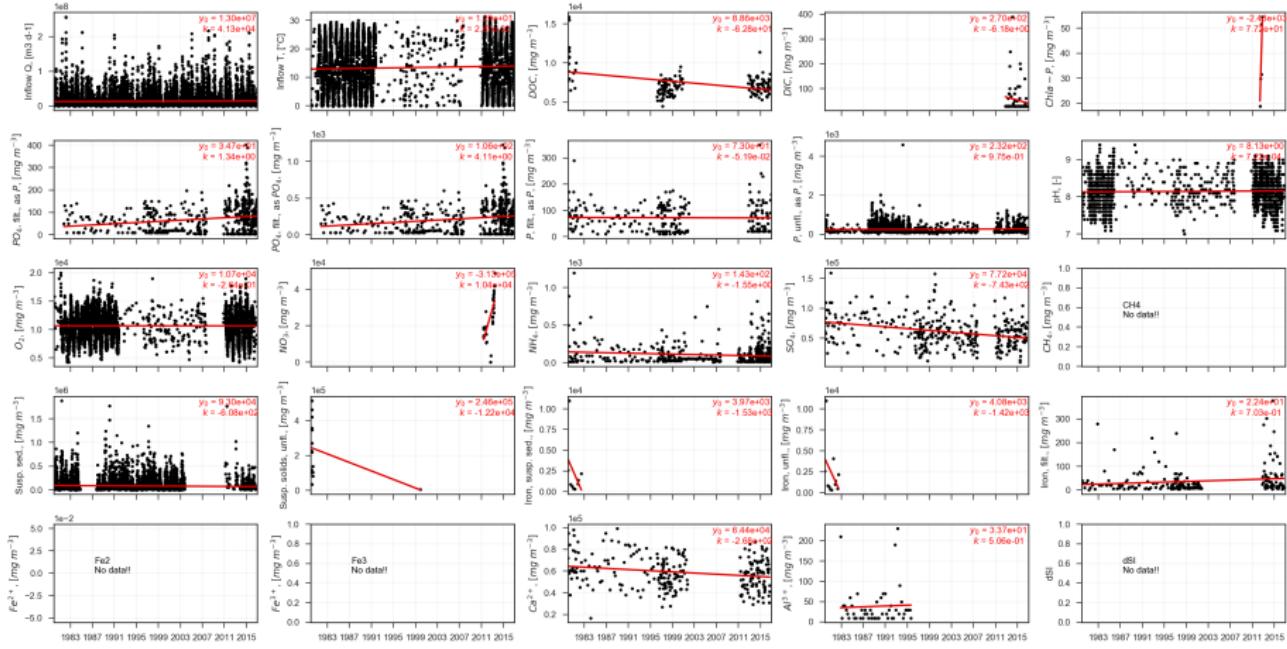
Density of data (does not include Q and T)



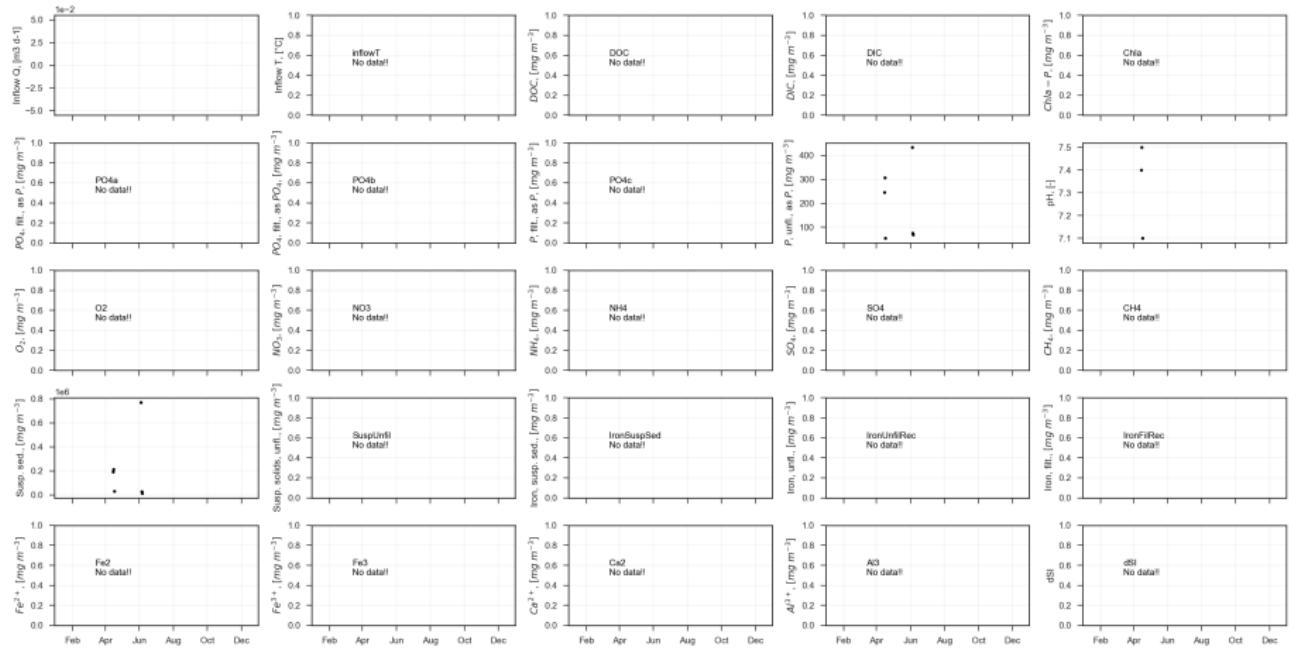
Completeness of data (does not include Q and T)



Example: Maumee River

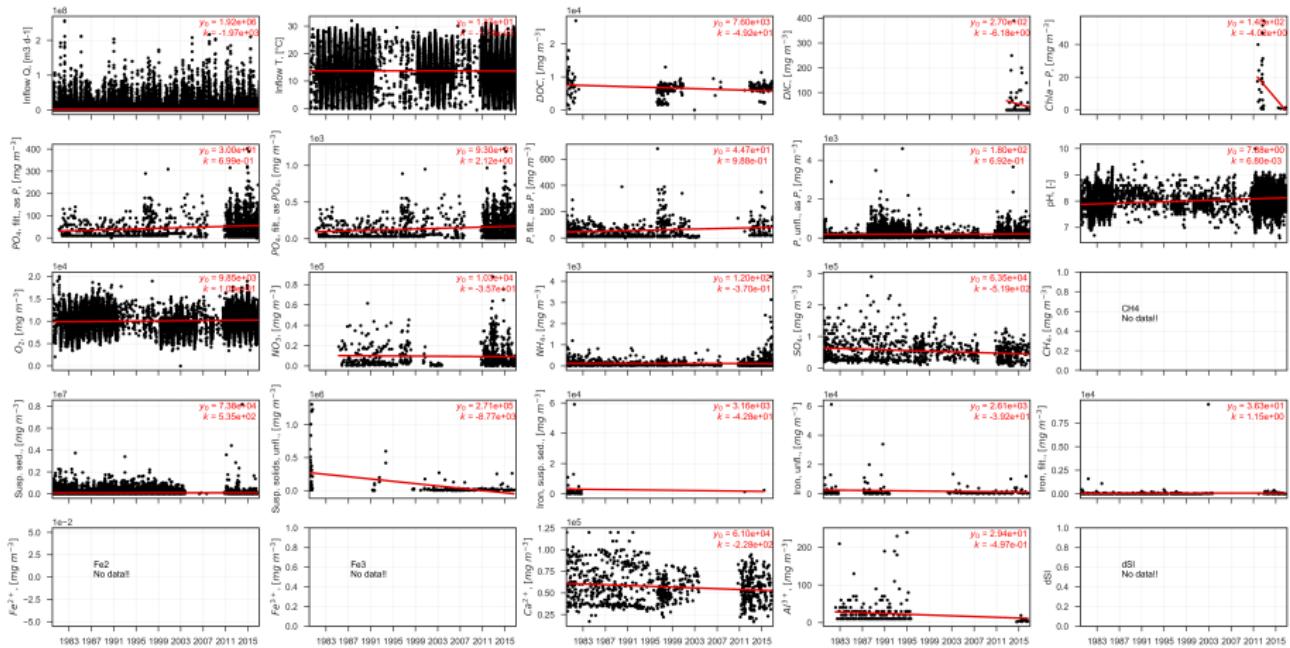


Example: Ashtabula River

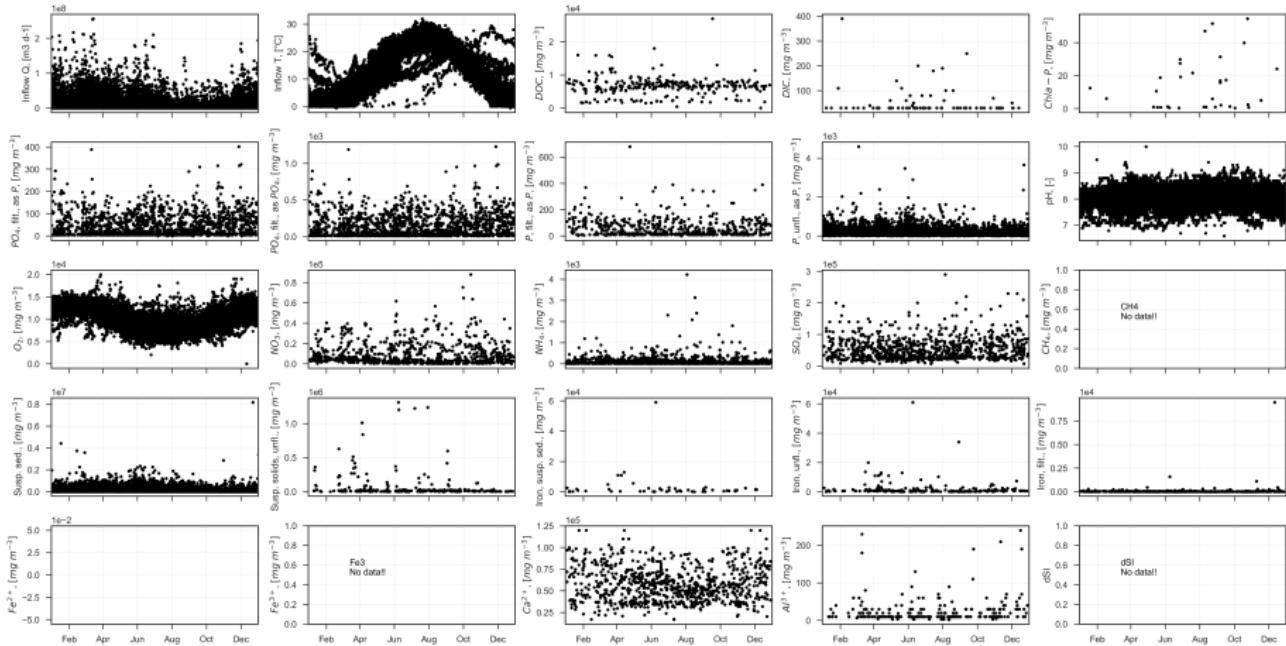


River Input Combined

River Input Combined: All rivers to see the trends



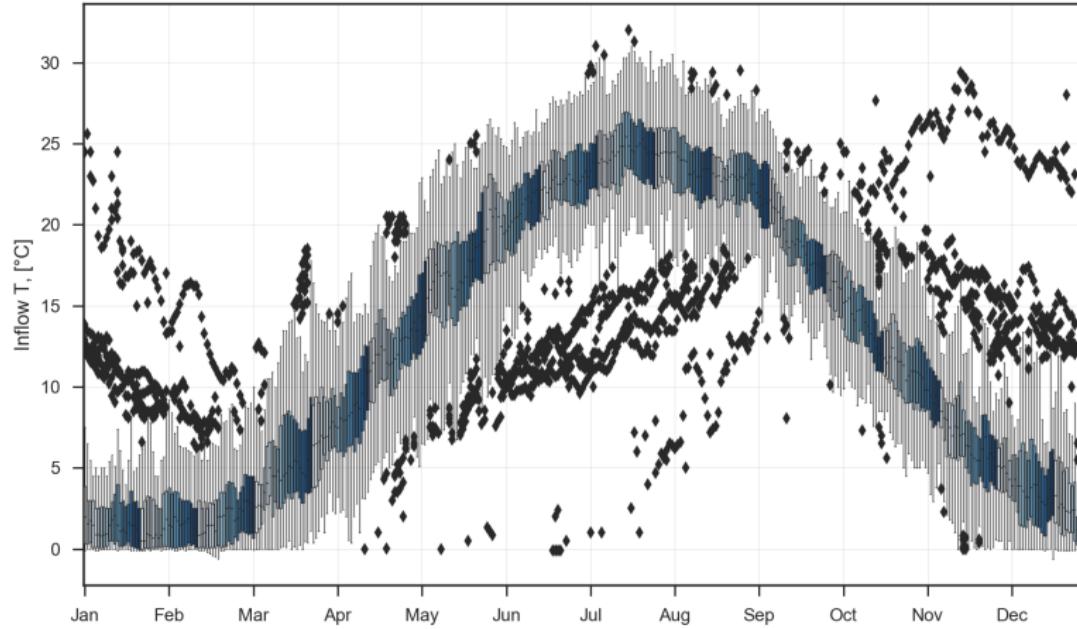
River Input Combined: All rivers, all years to see the pattern



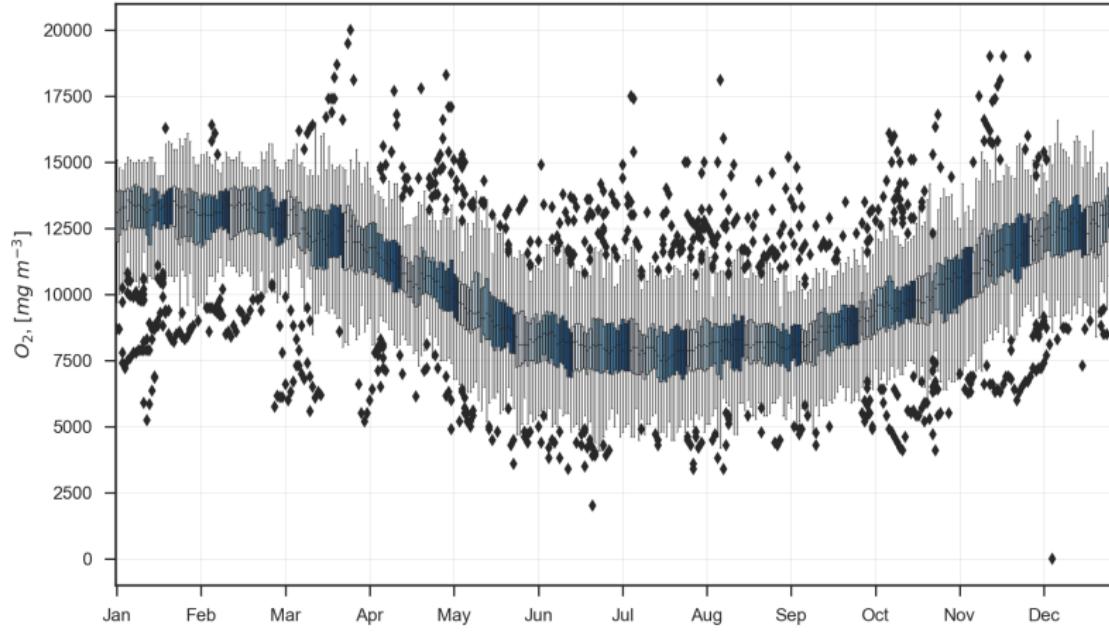
Supplemental information

Boxplots of river input

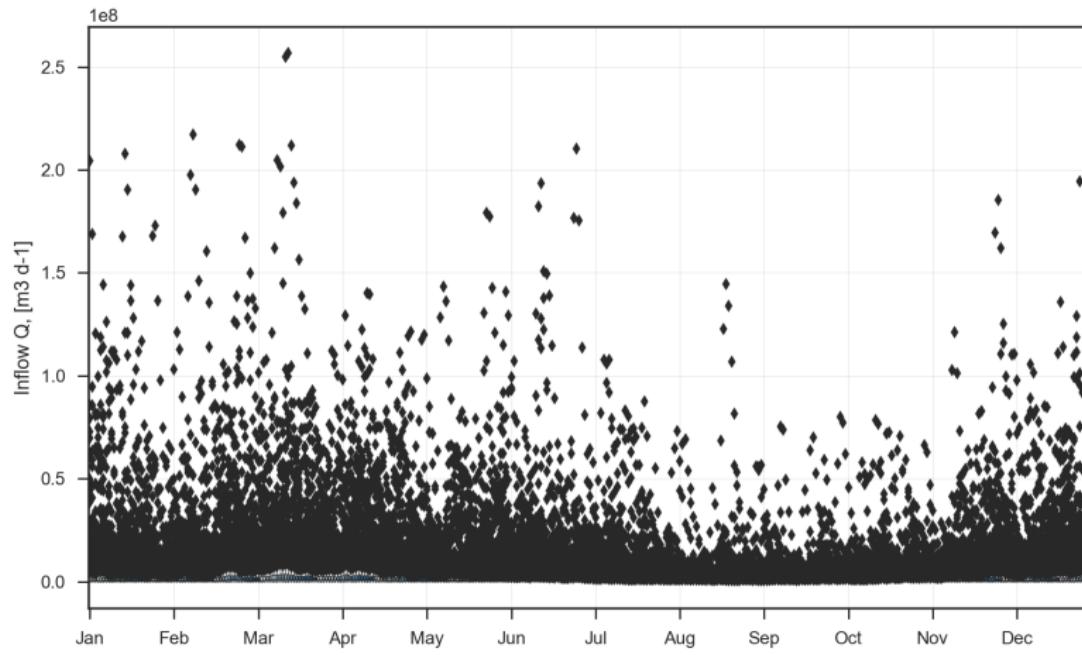
inflow T



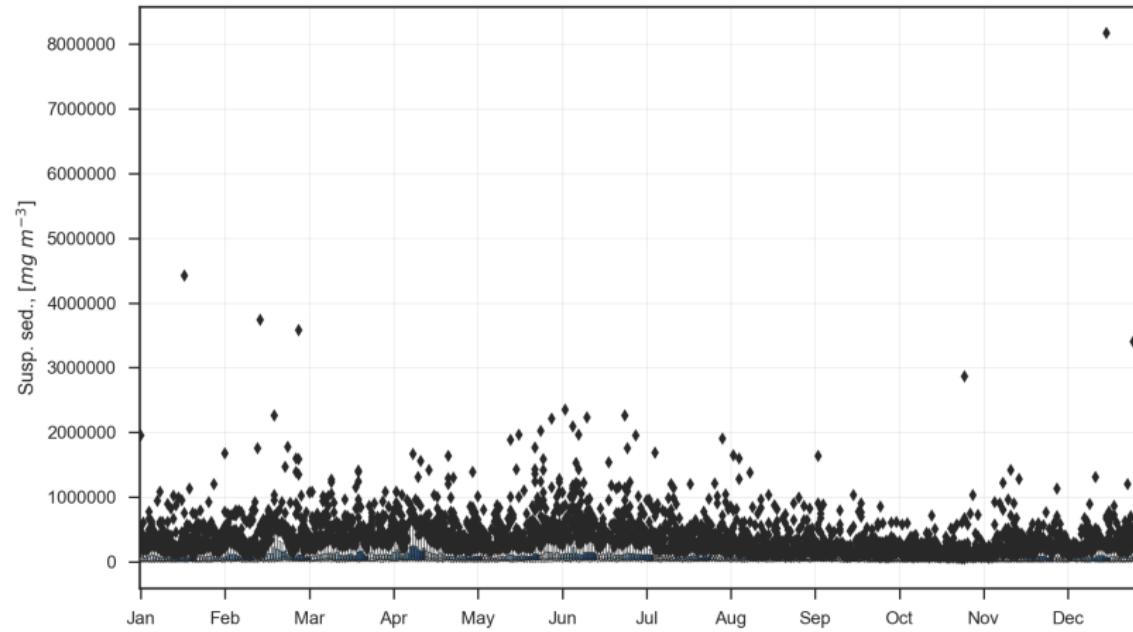
O₂



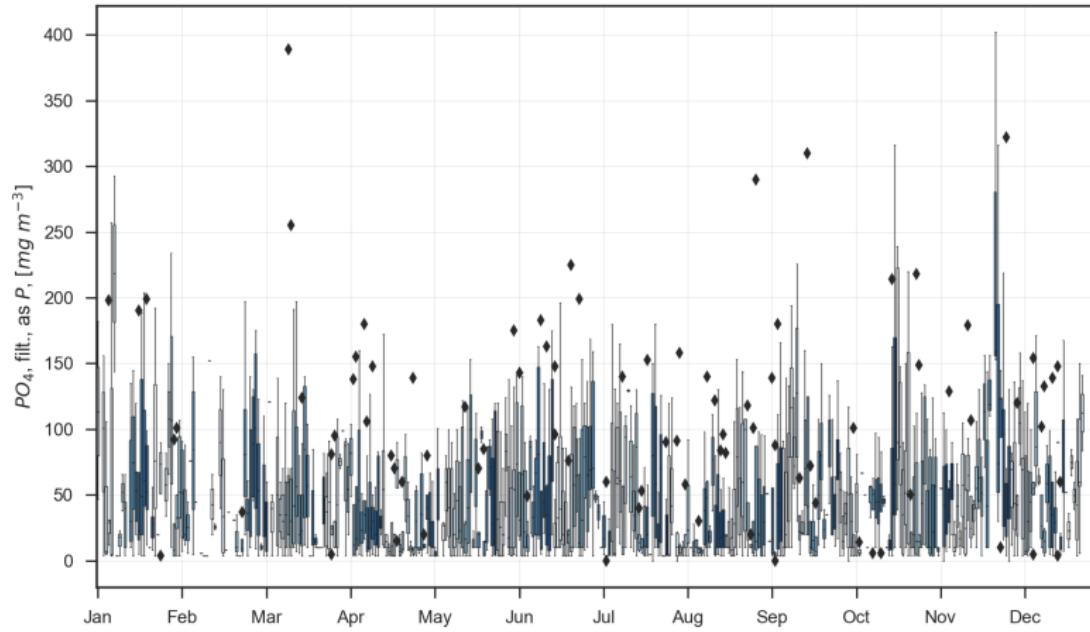
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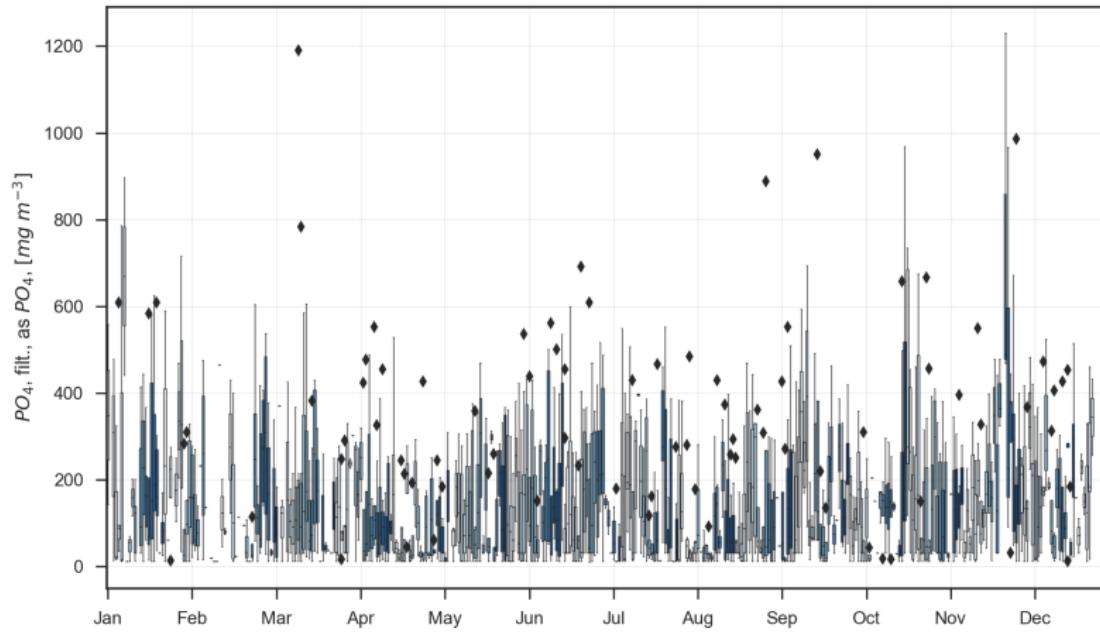
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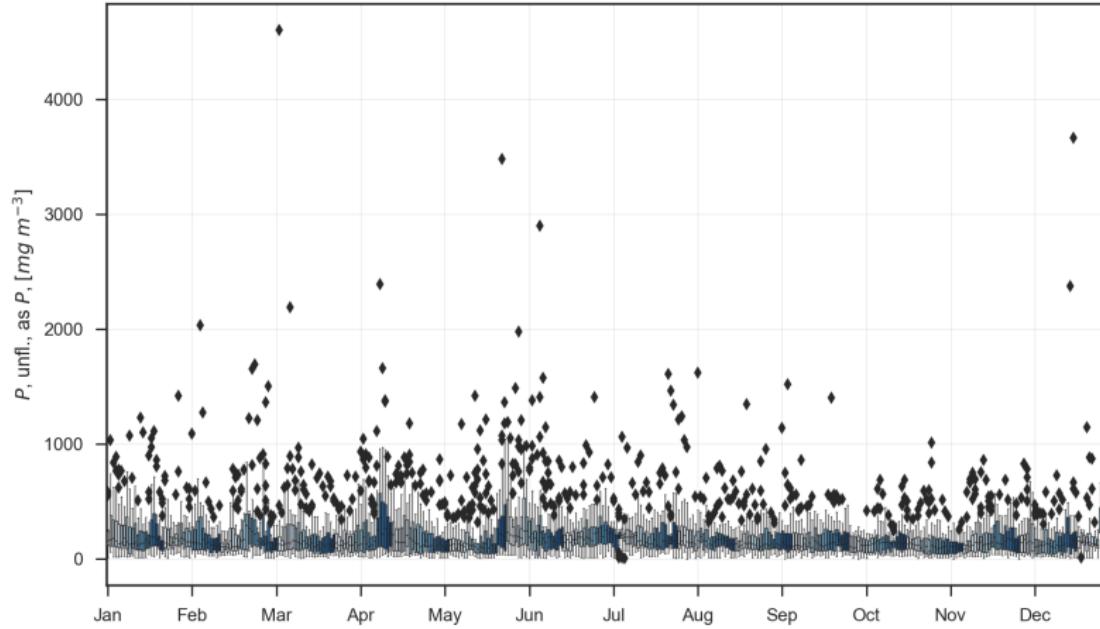
PO4a



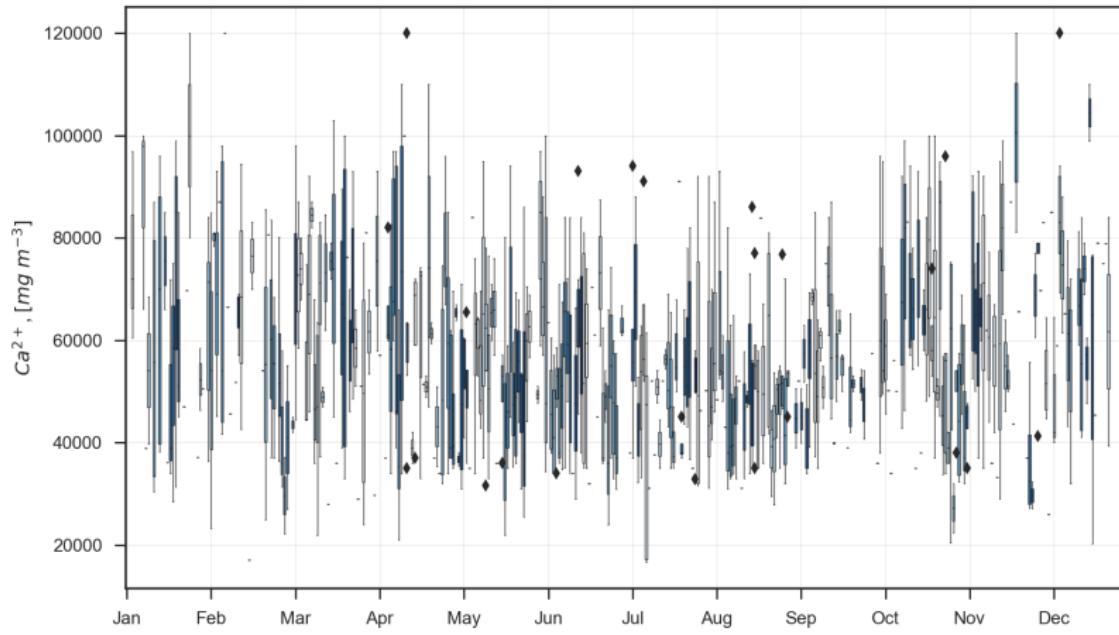
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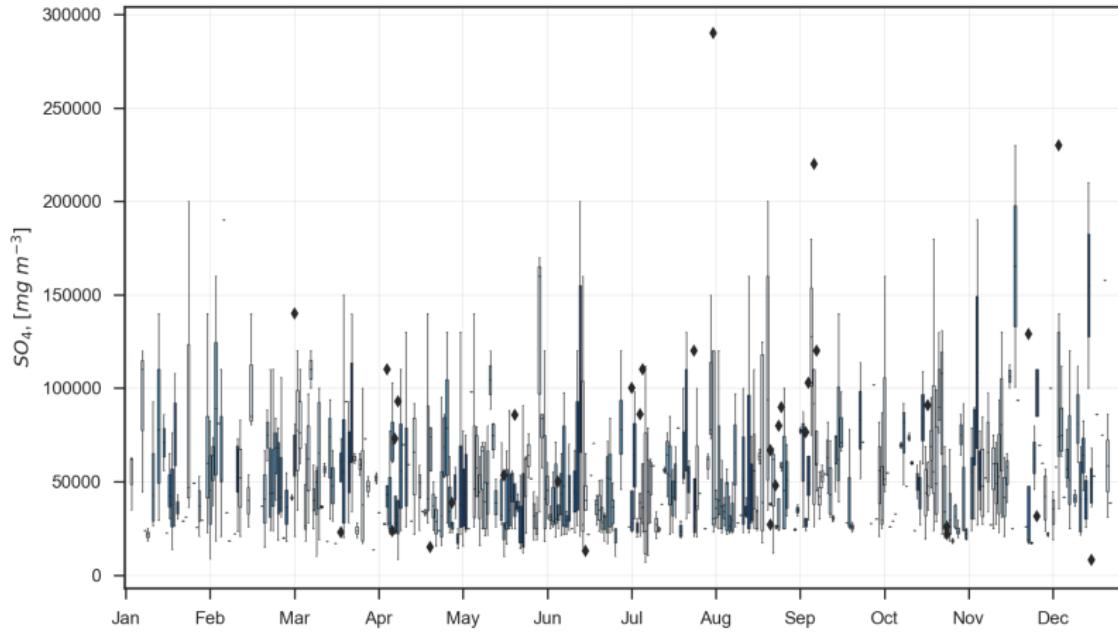
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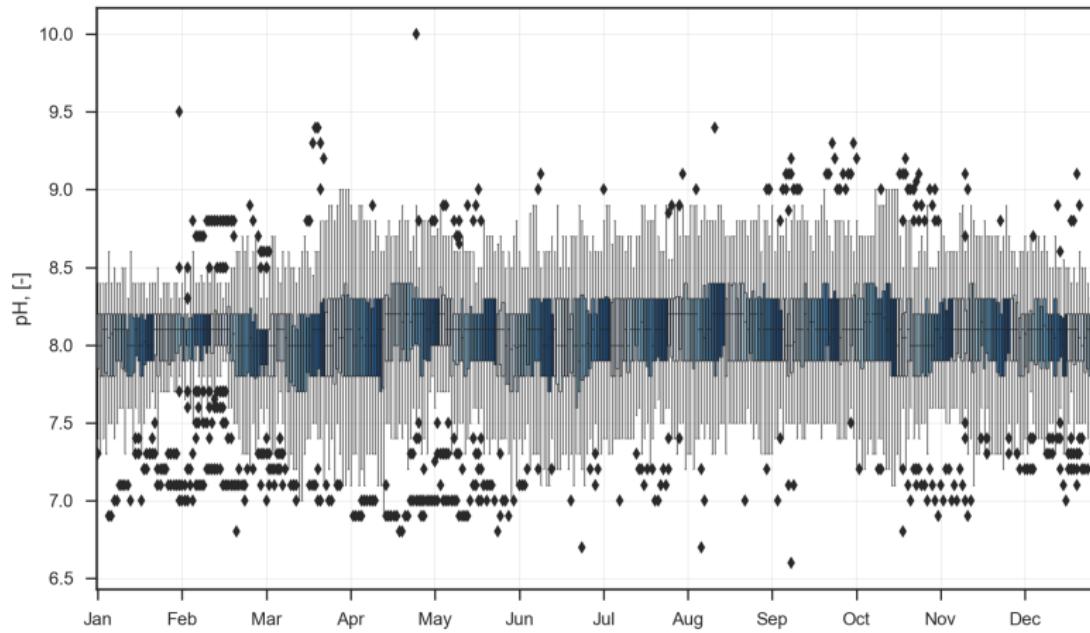
Ca2



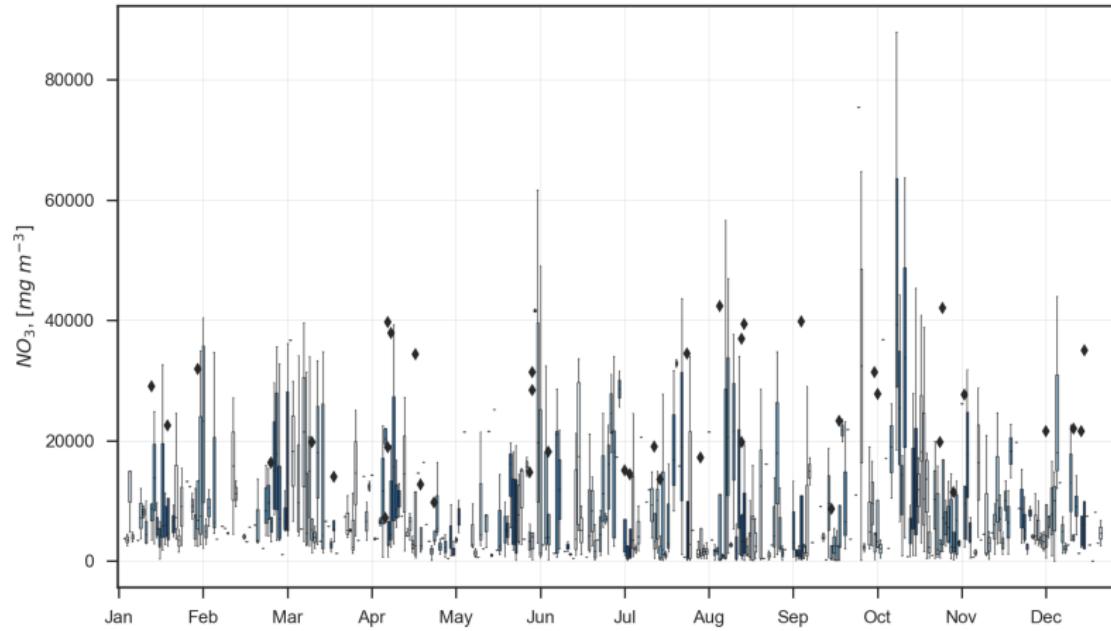
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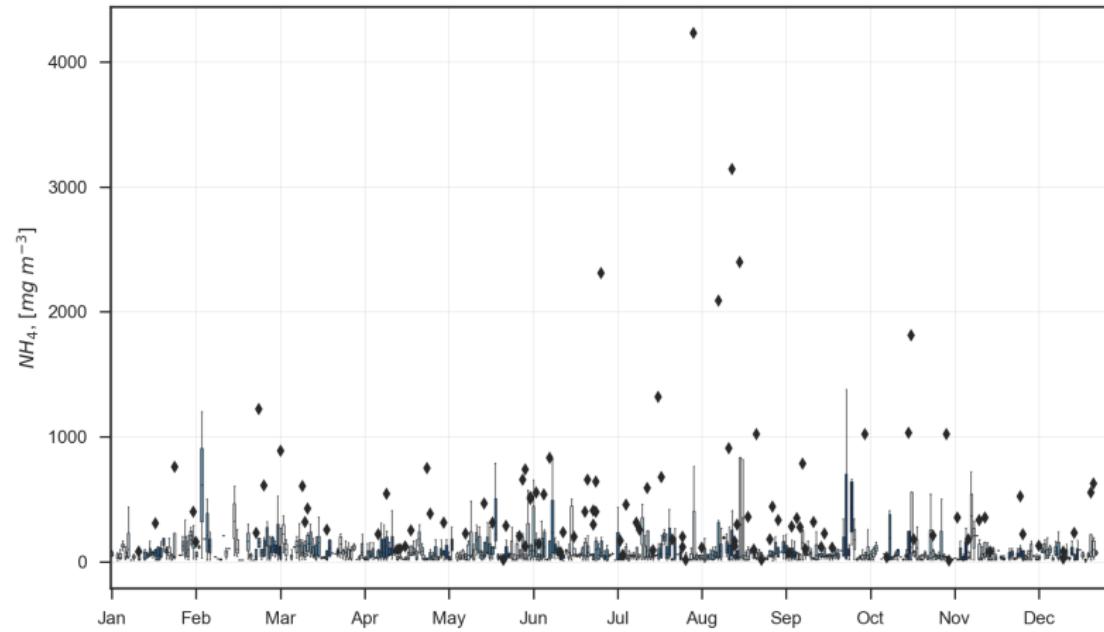
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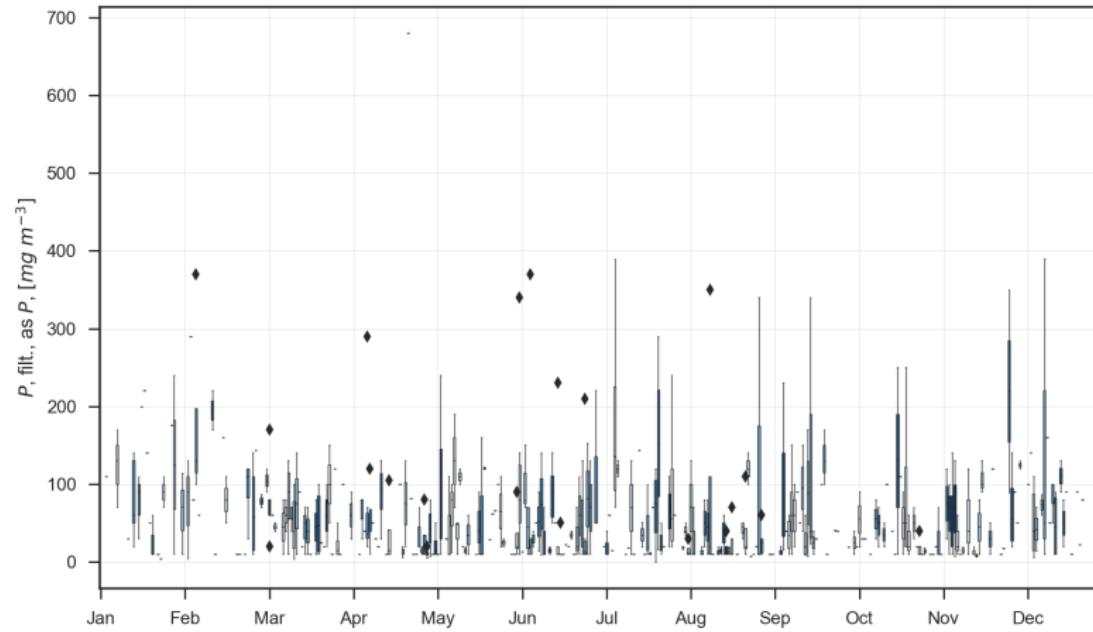
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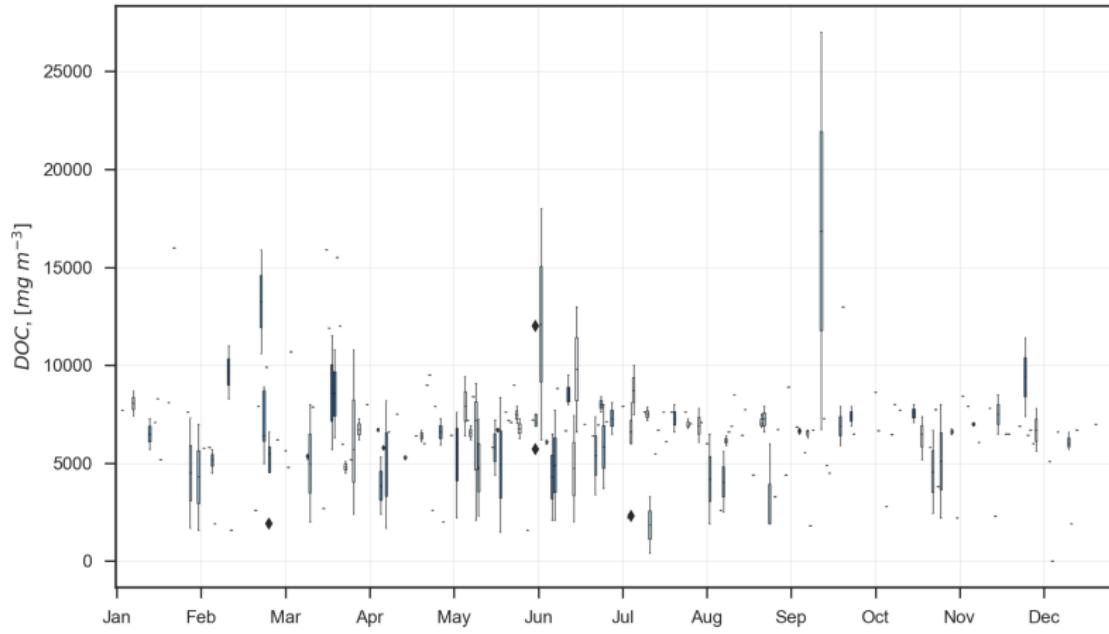


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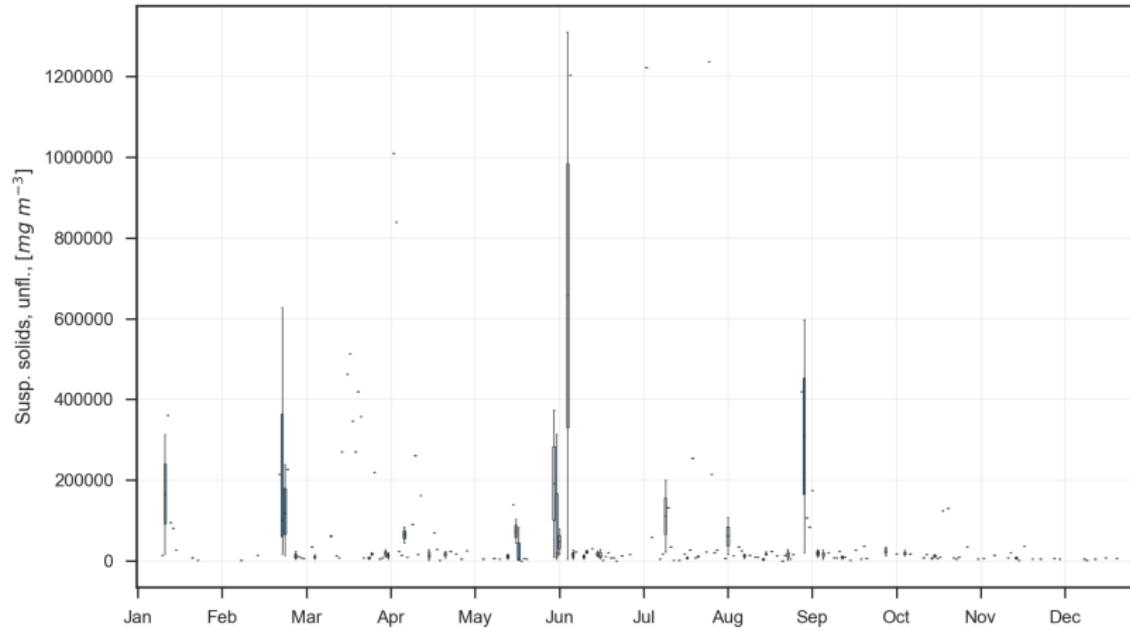


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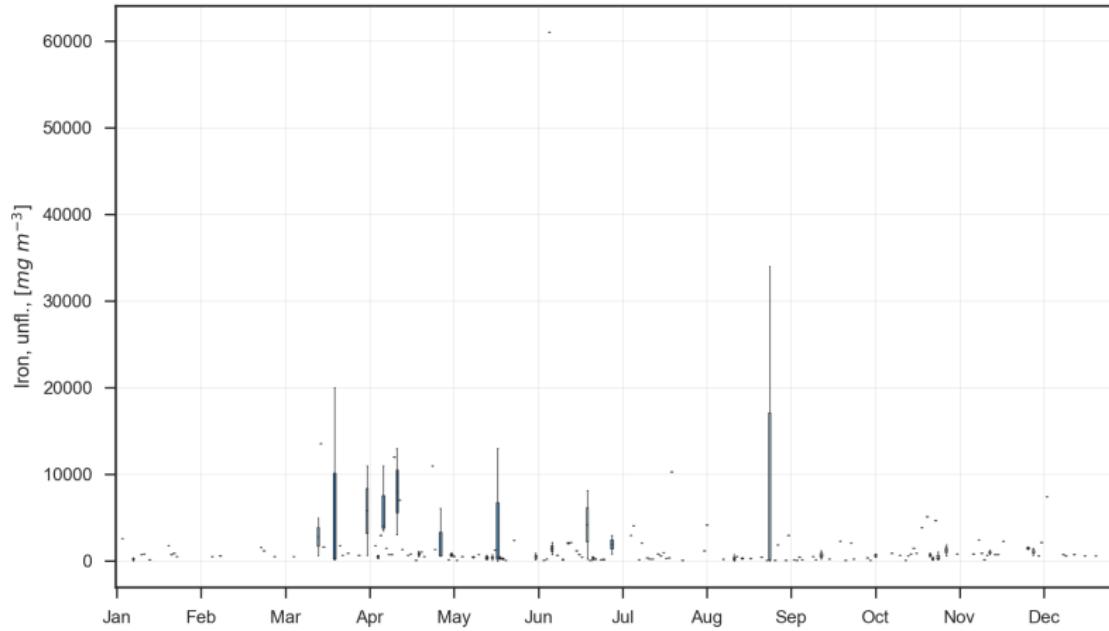




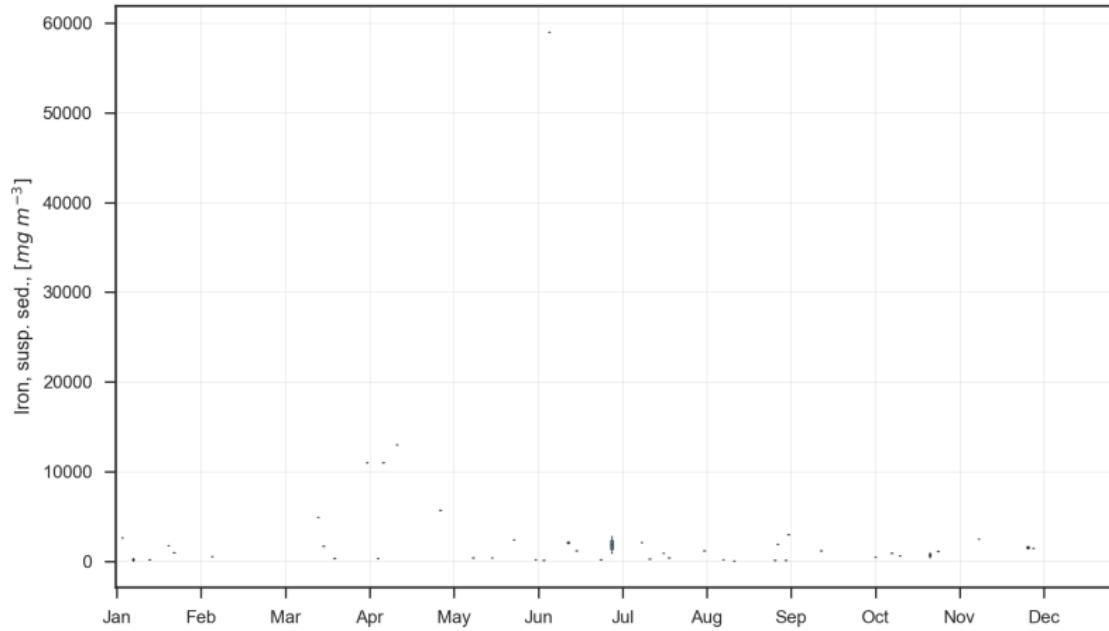
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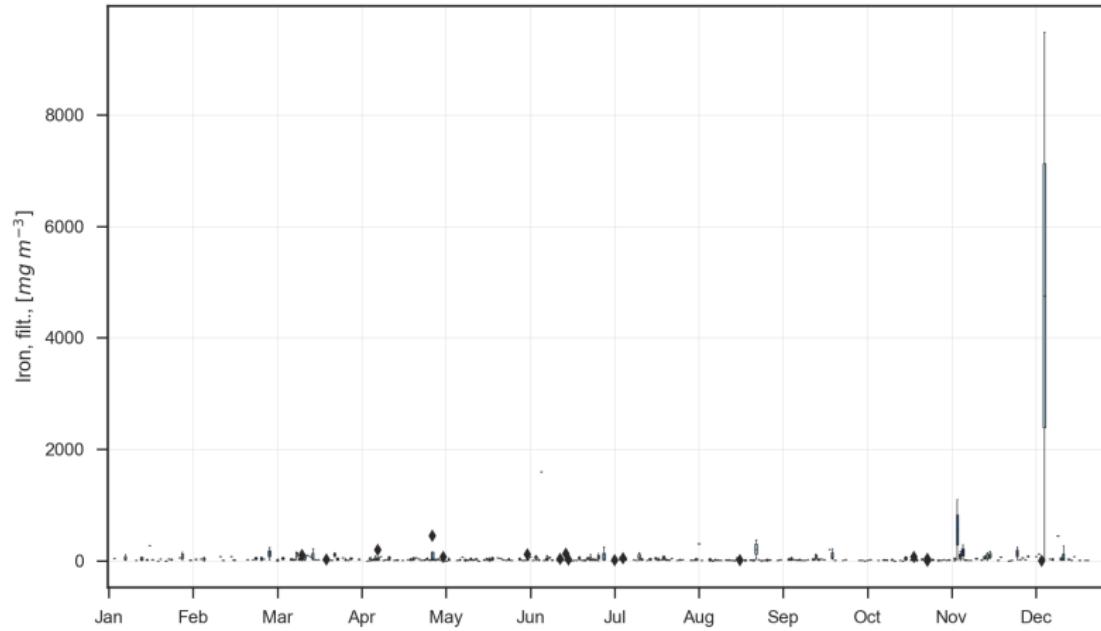


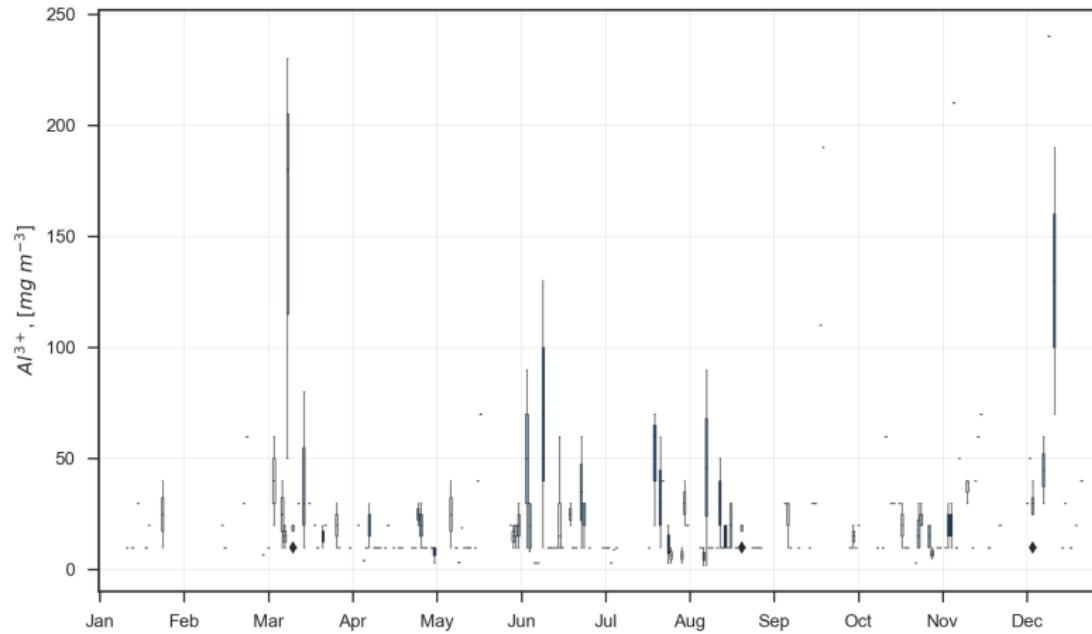
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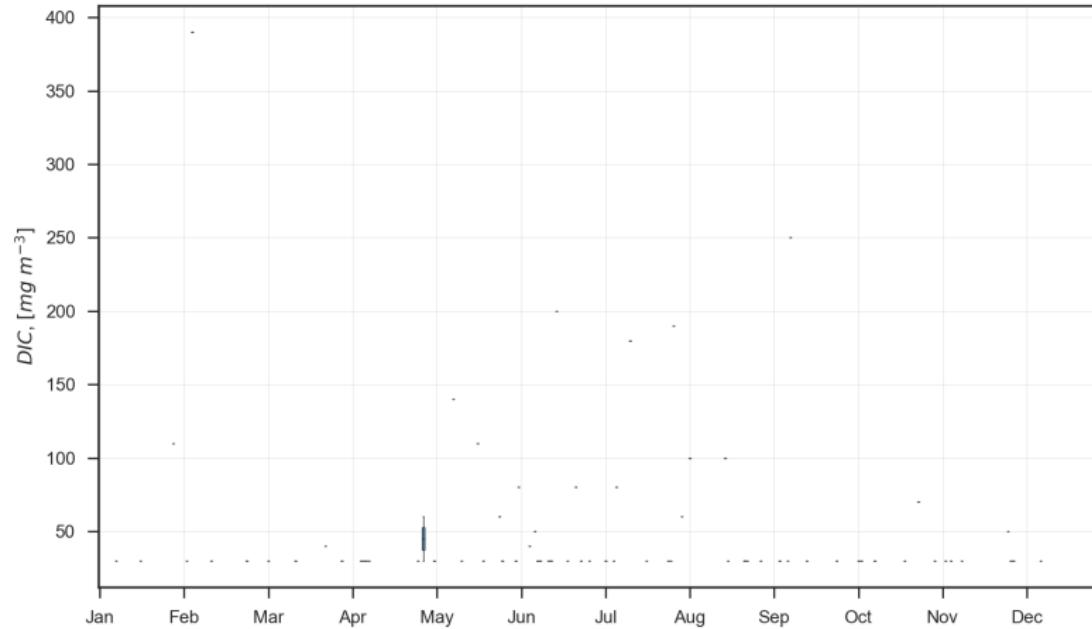


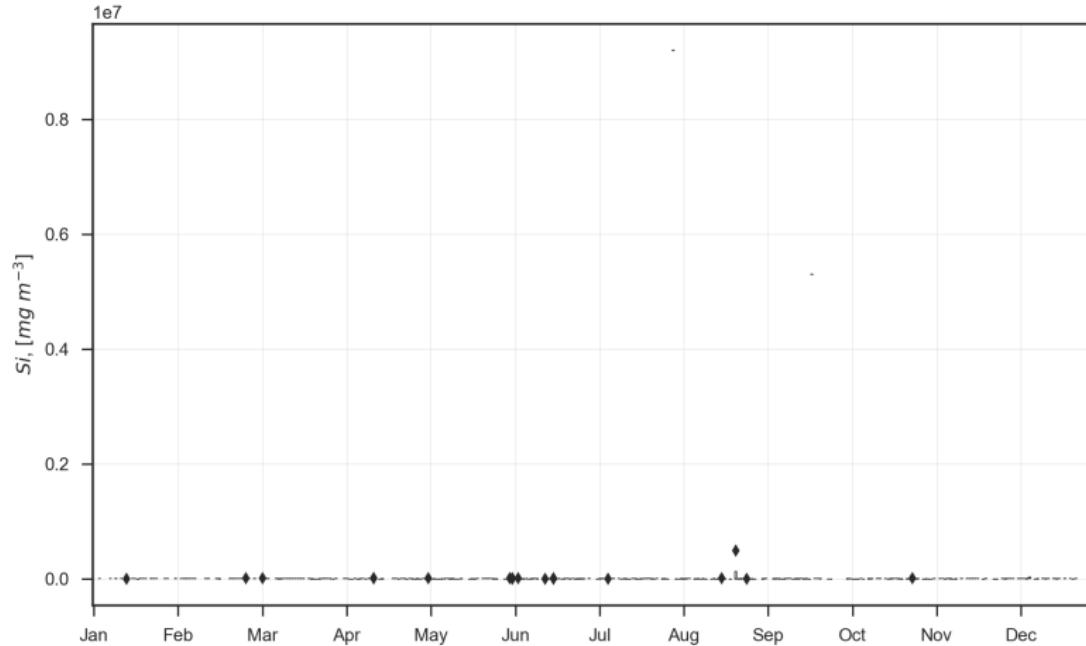
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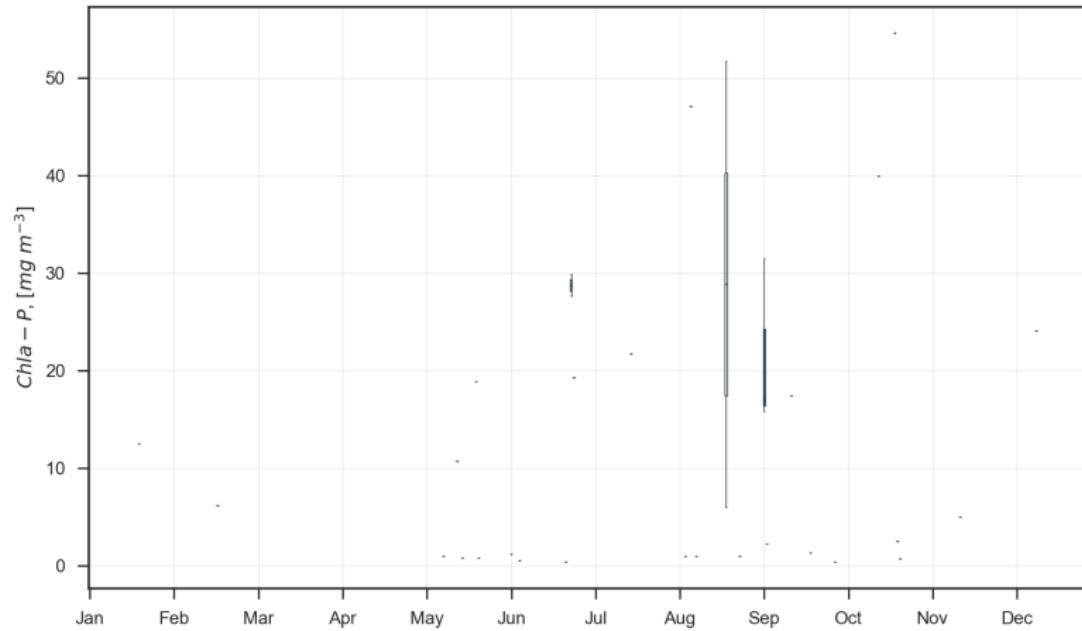




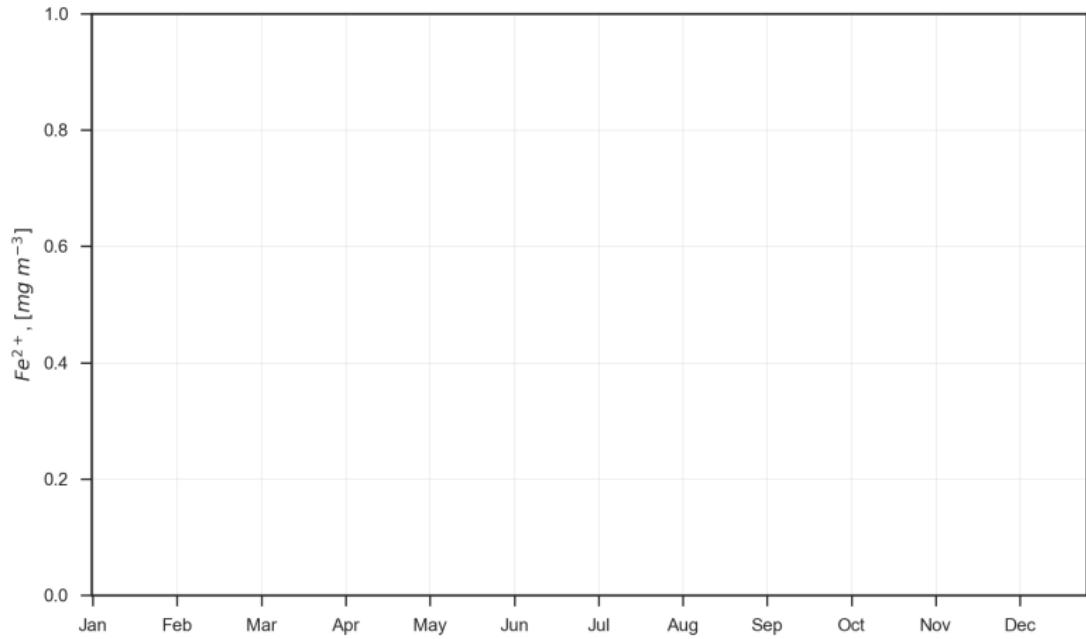




Chla

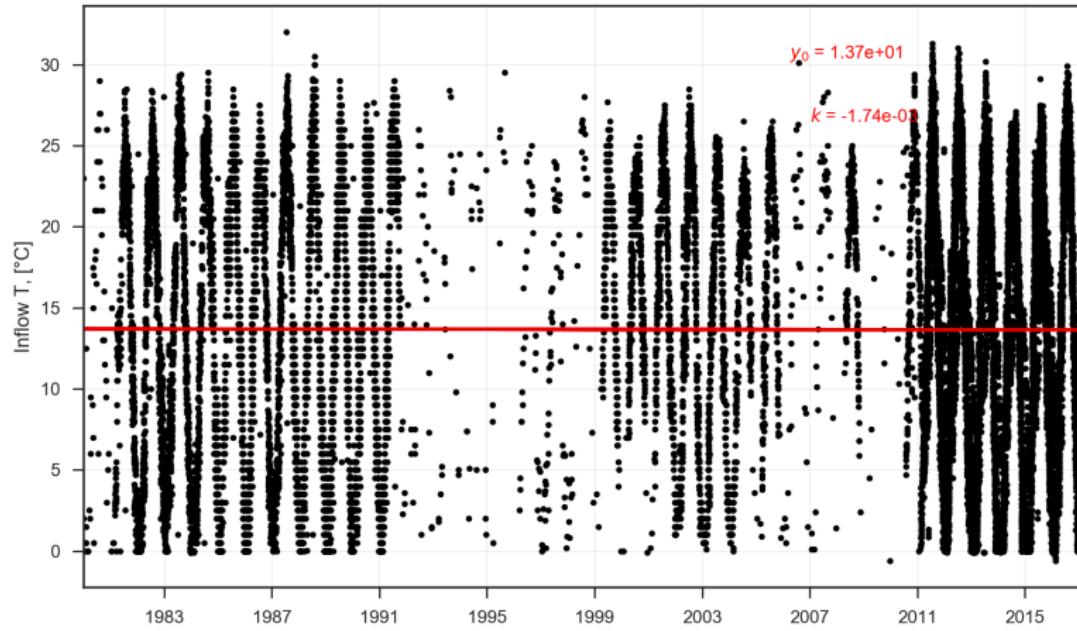


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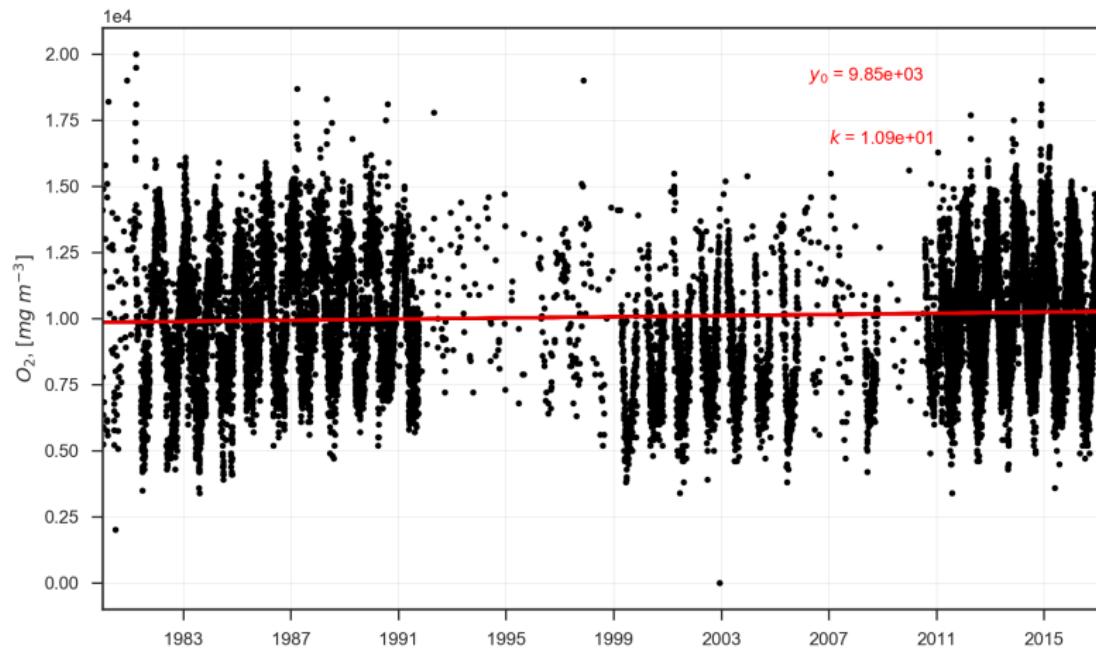


All year trend

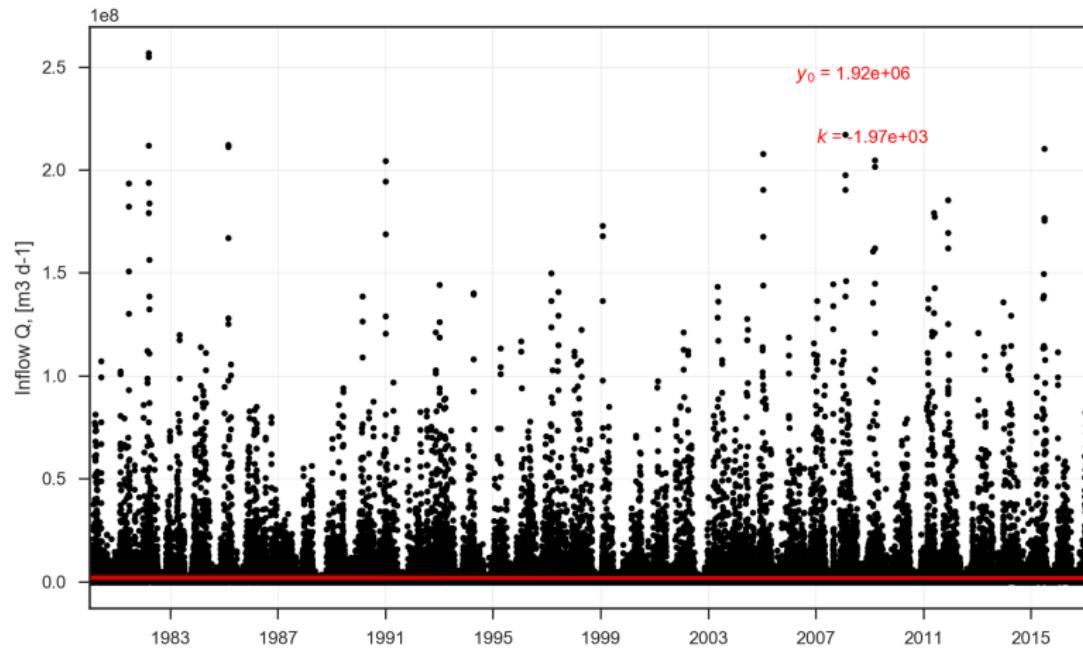
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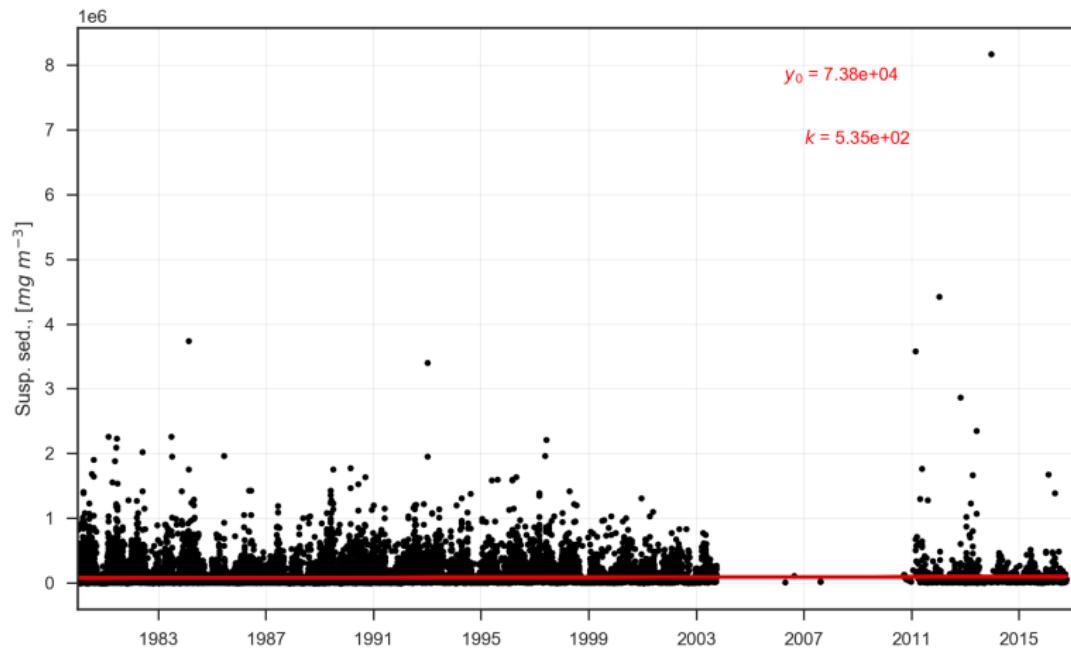
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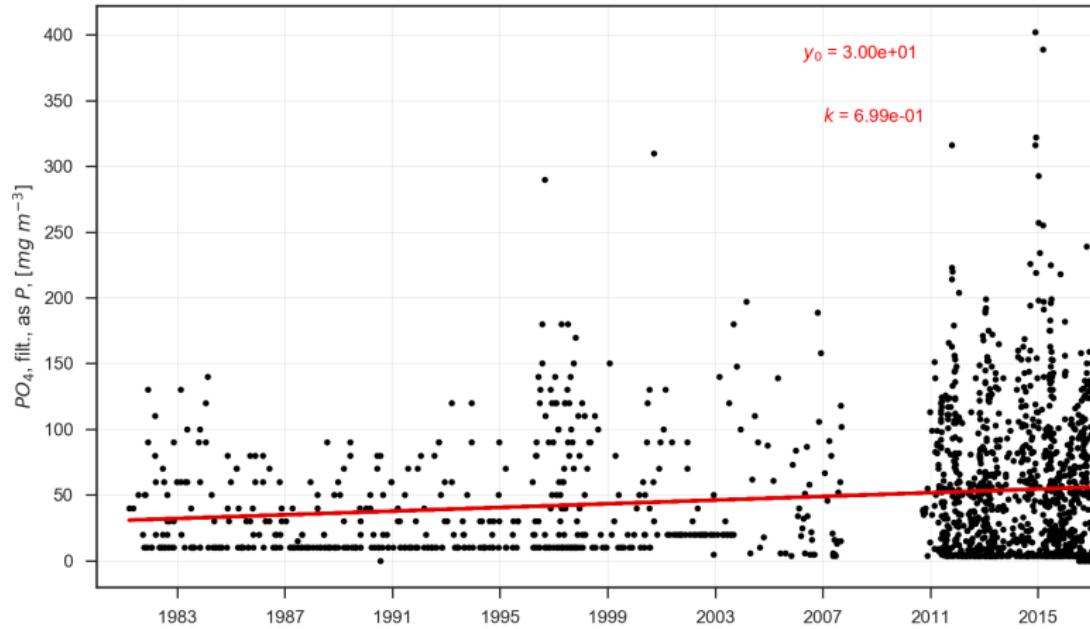
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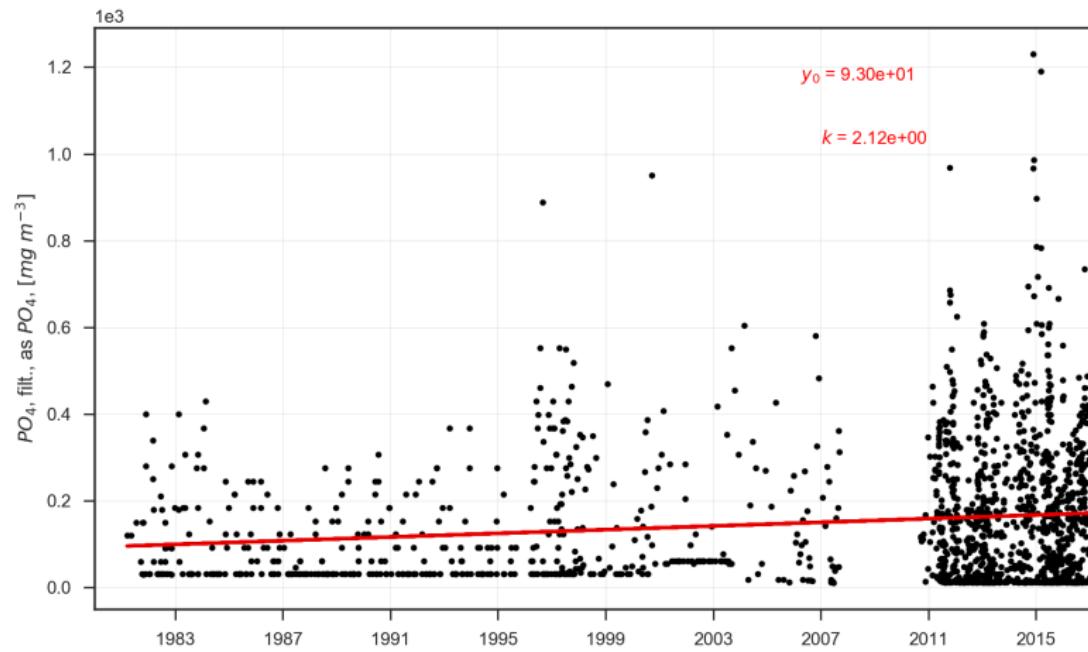
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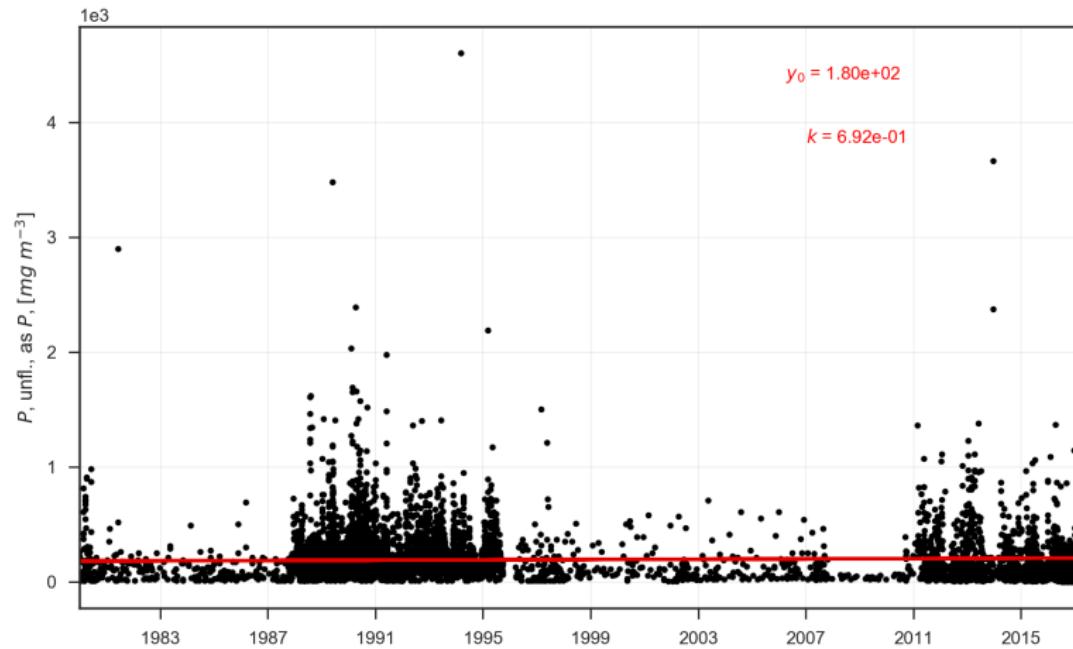
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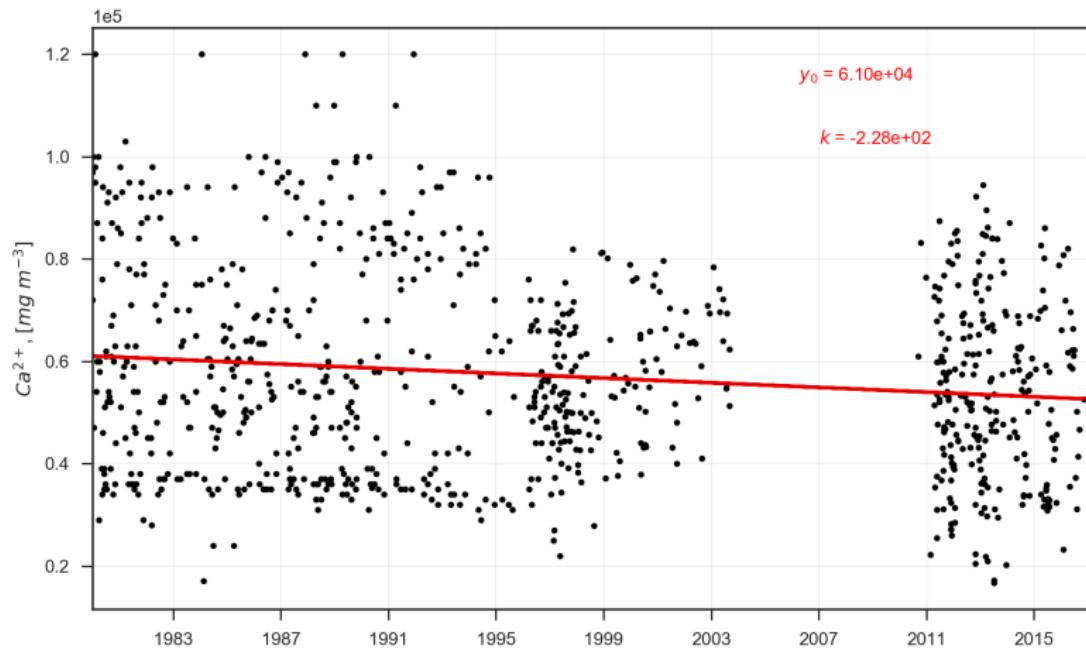
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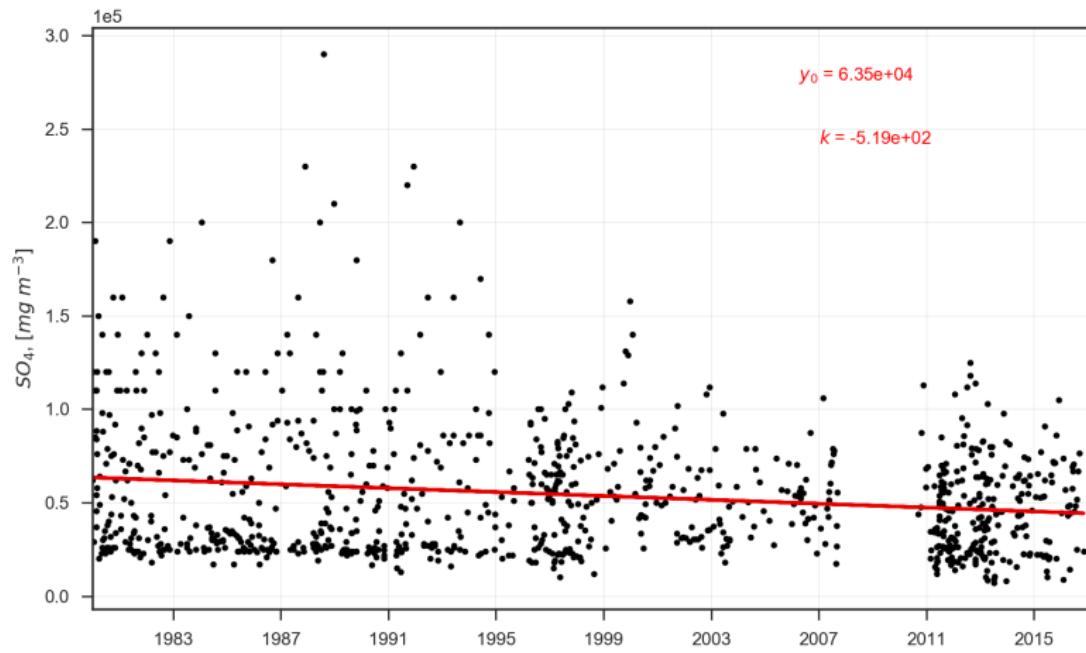
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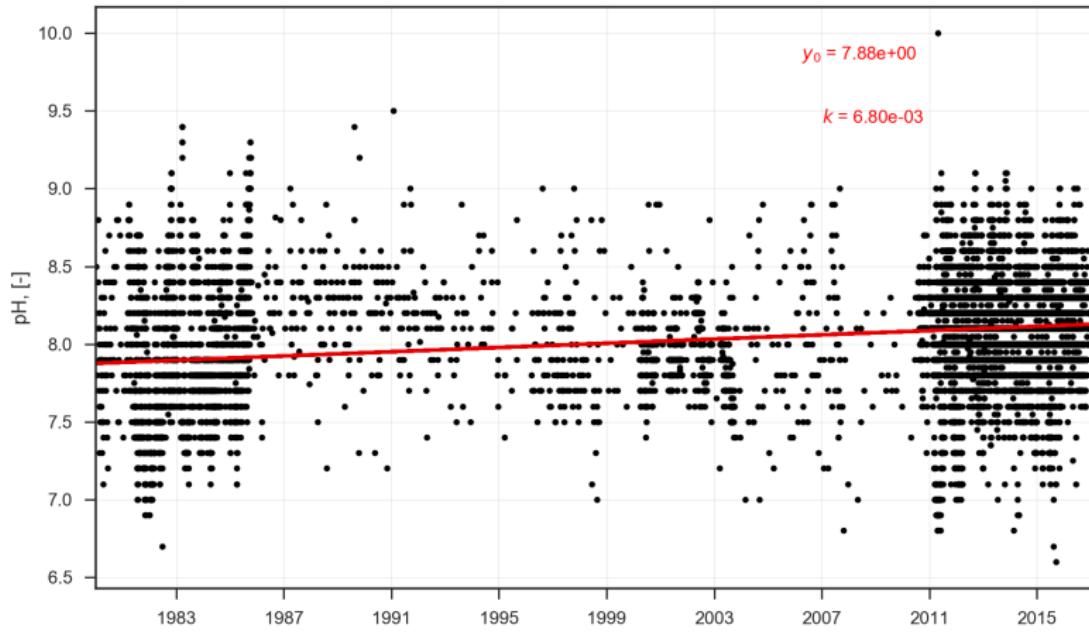
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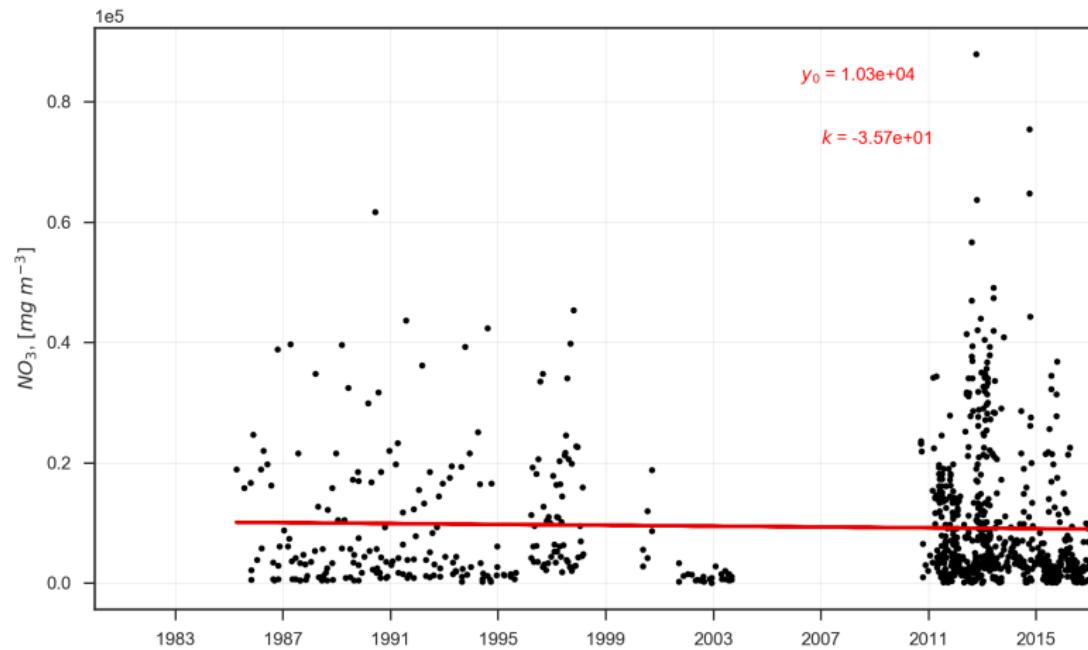
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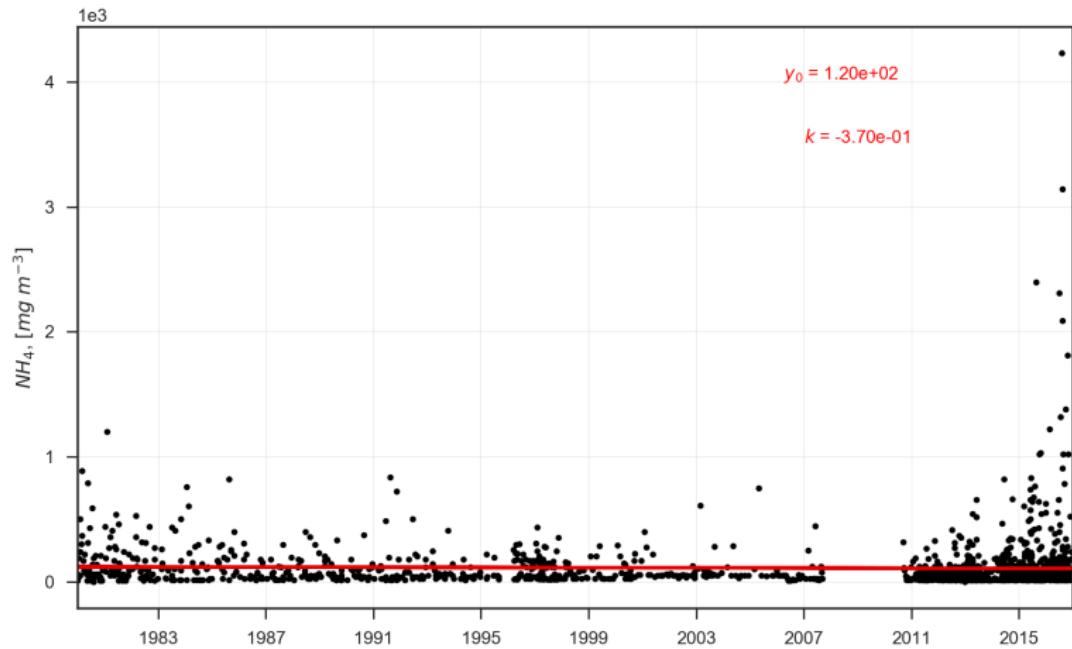
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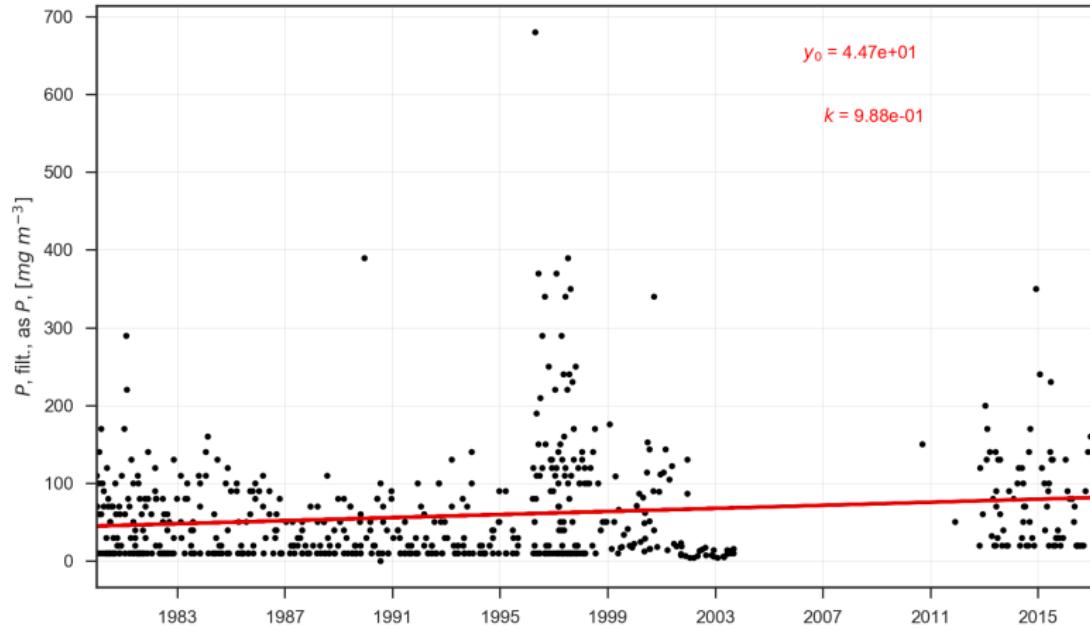
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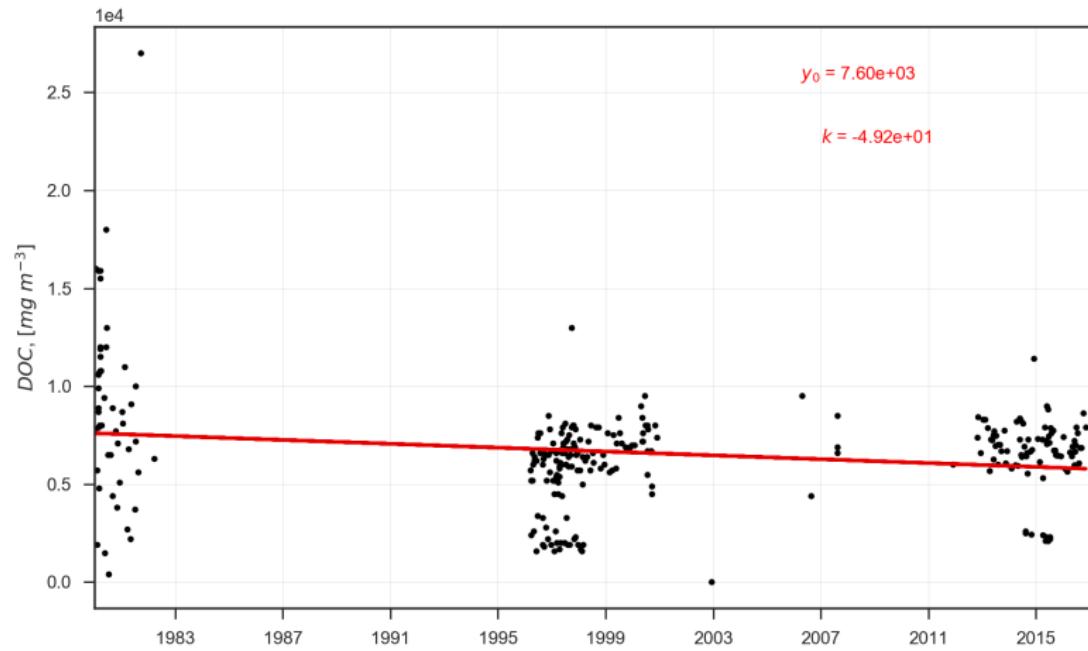


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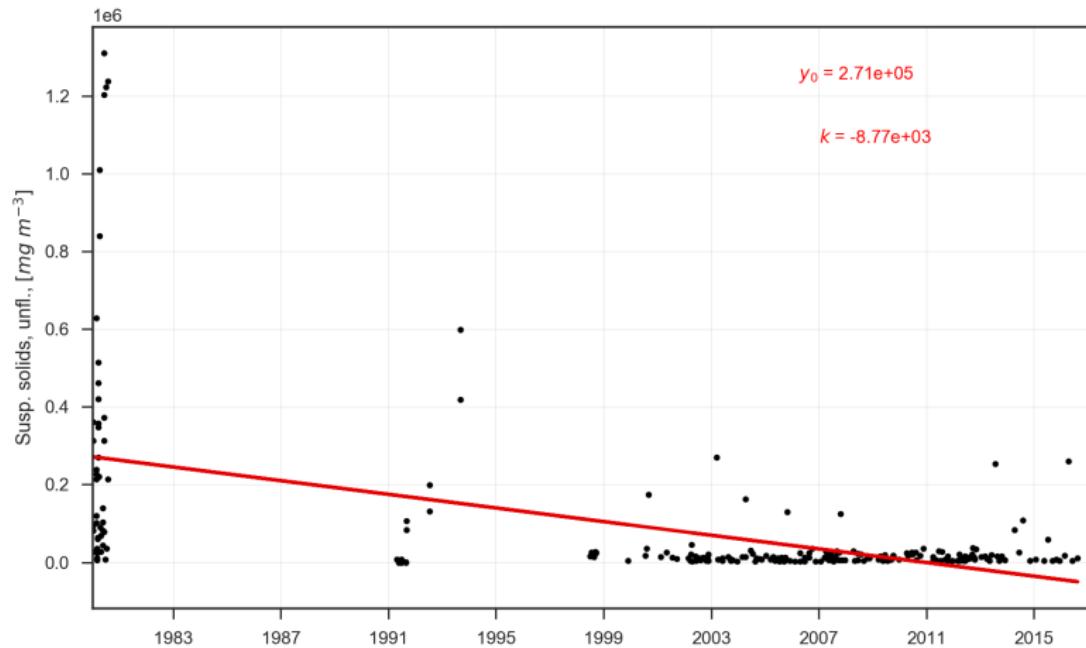


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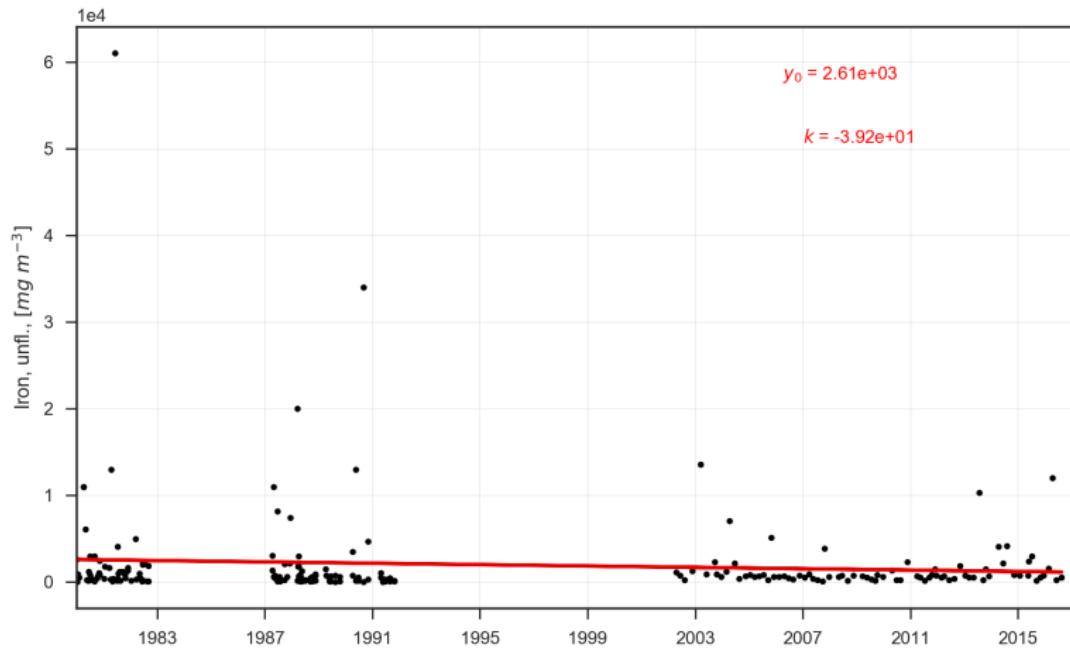




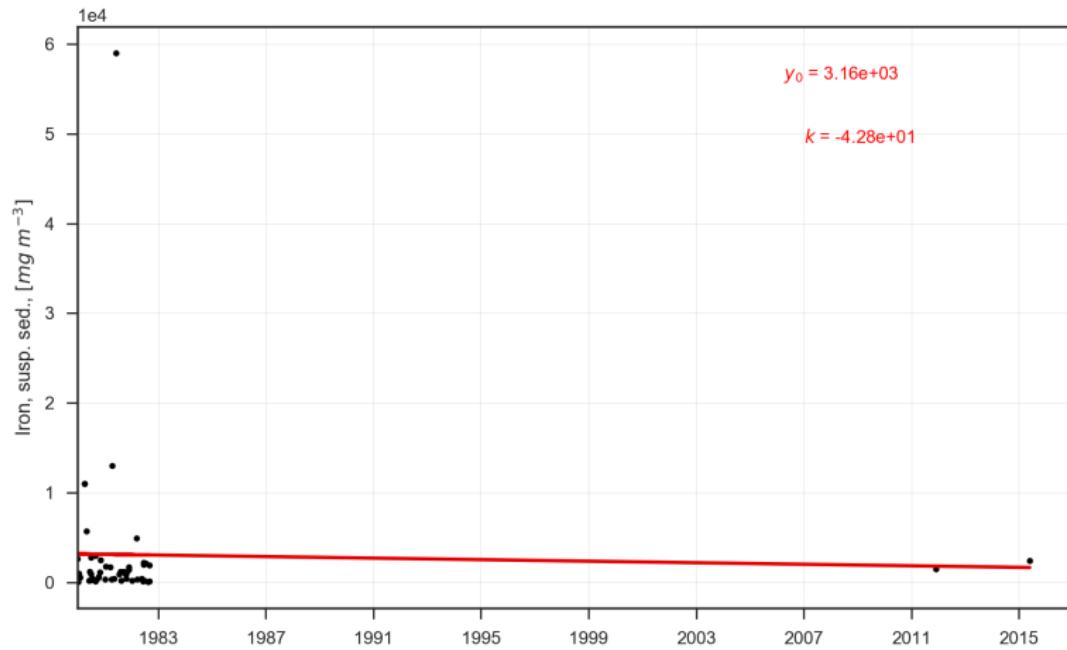
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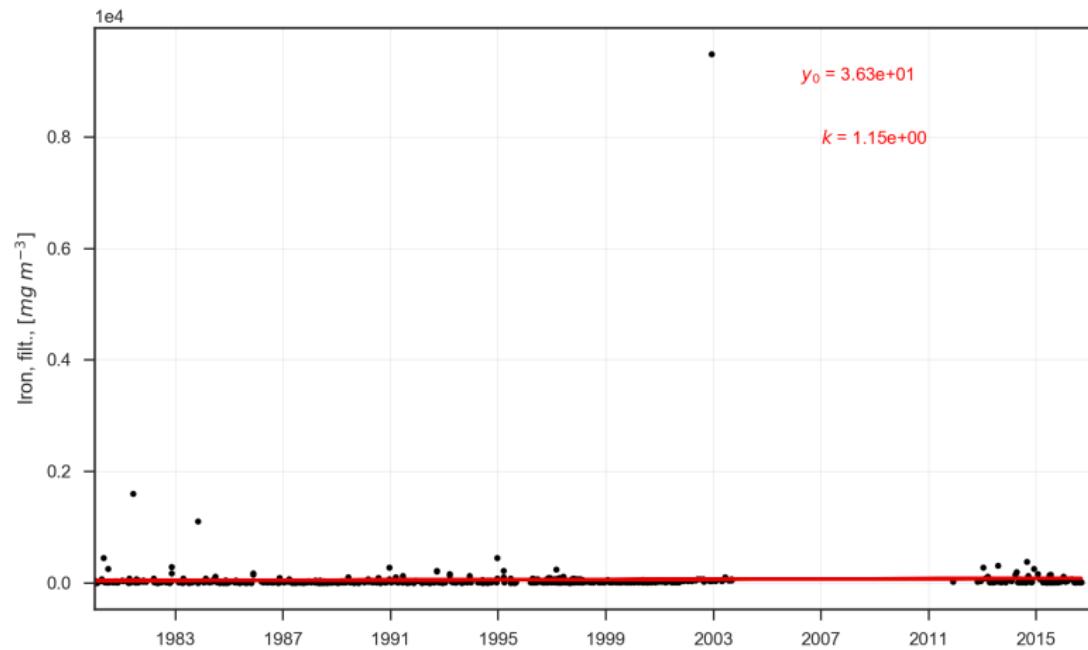


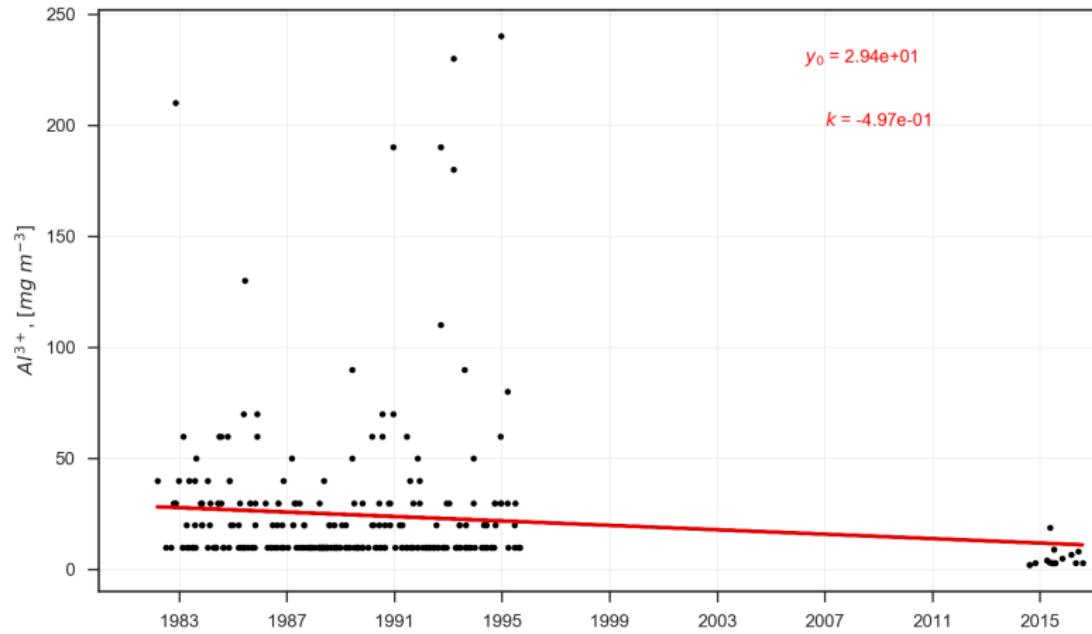
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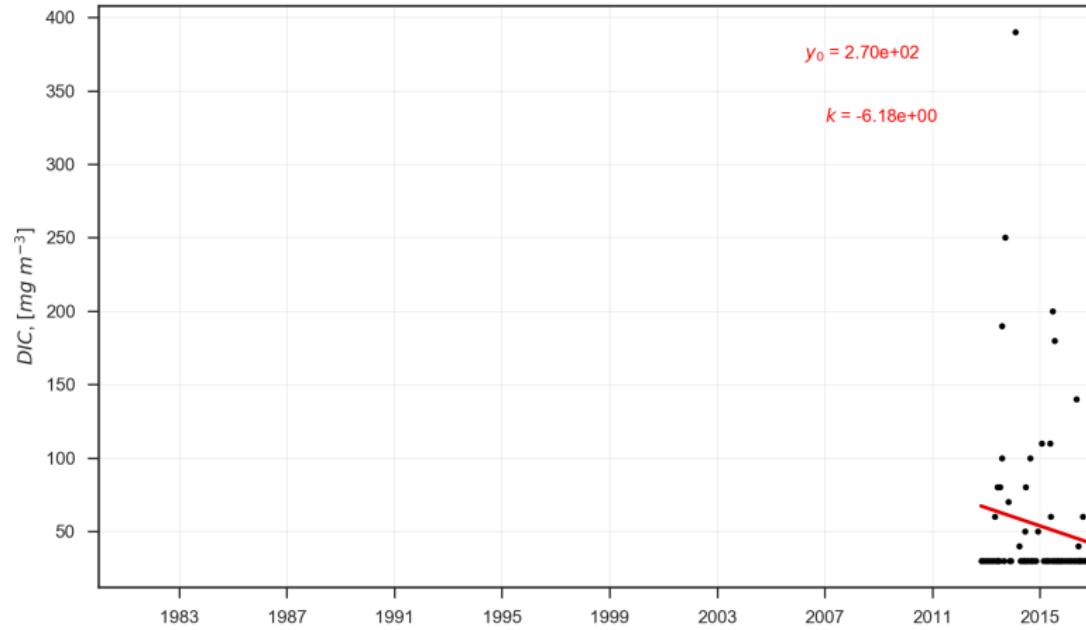


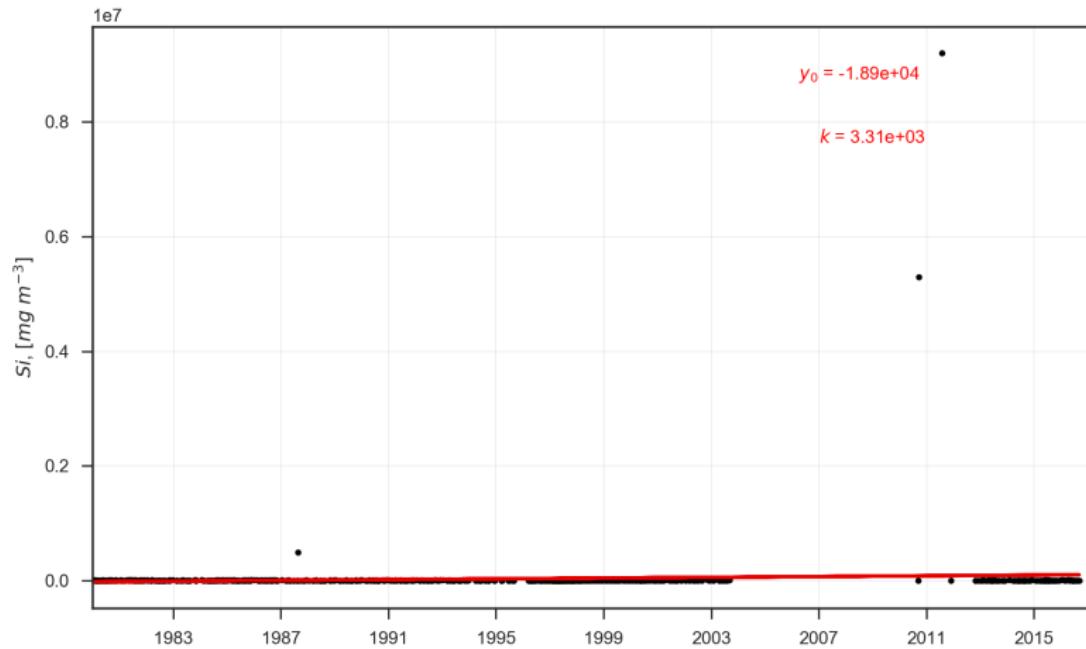
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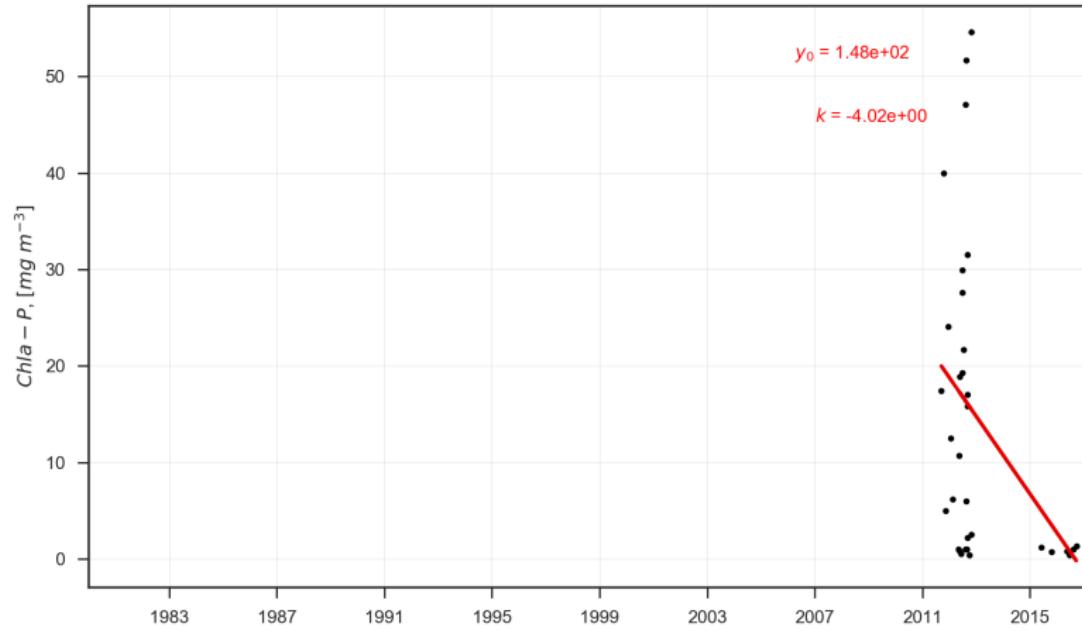




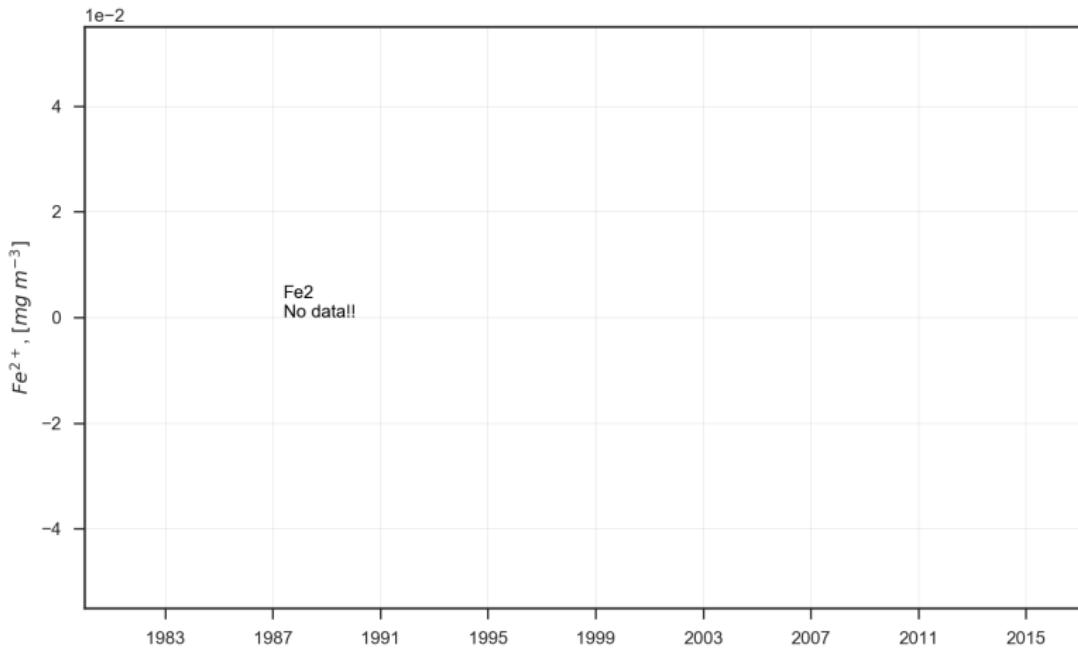




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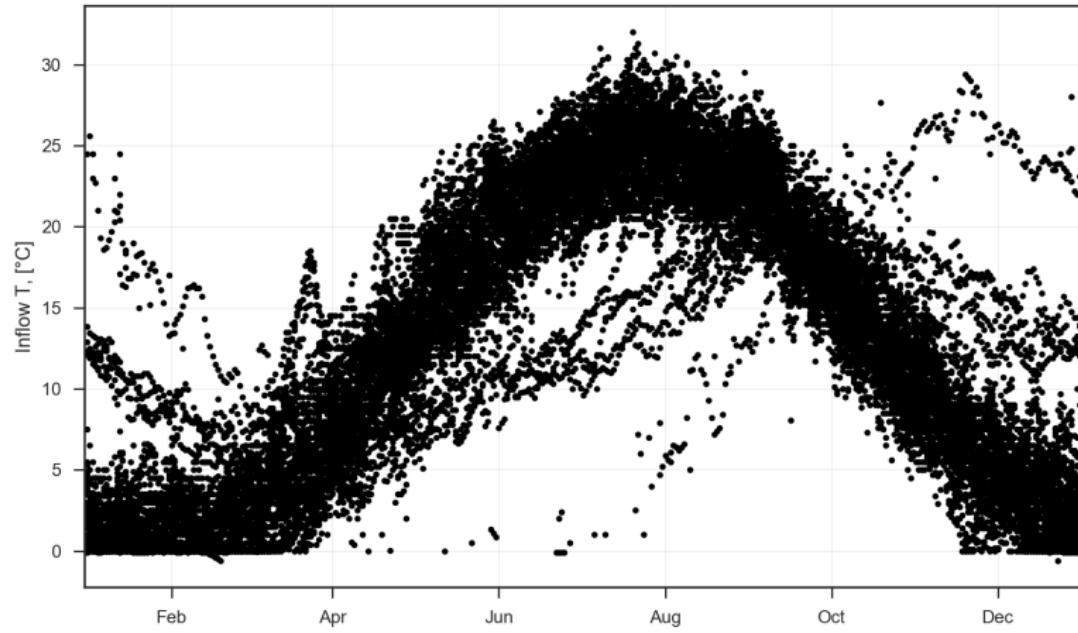


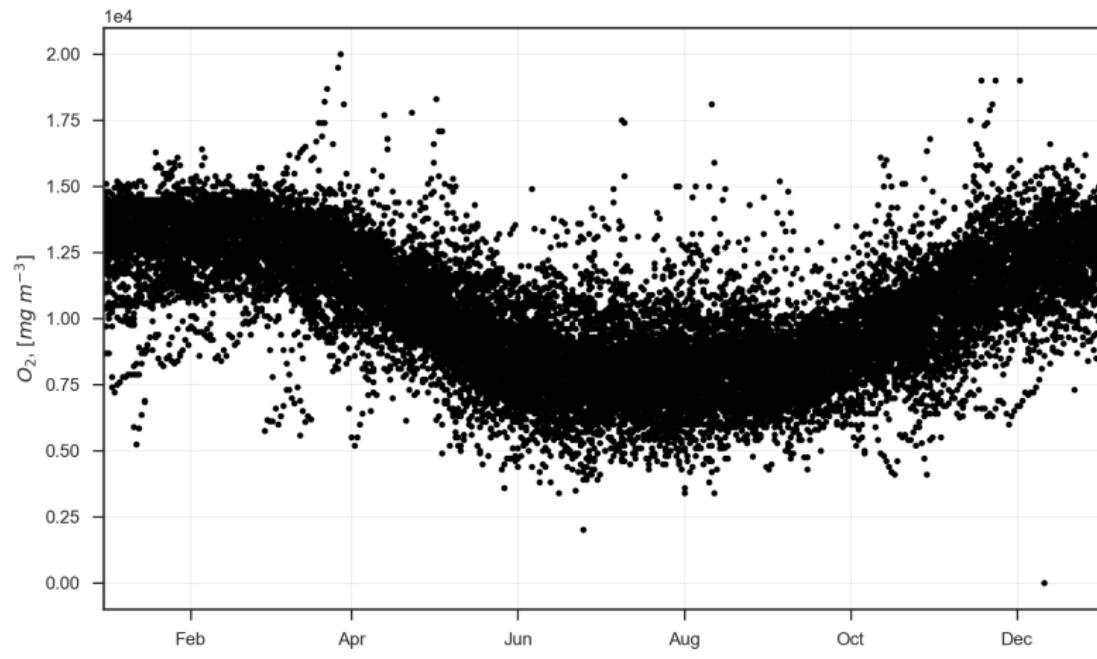
Fe2



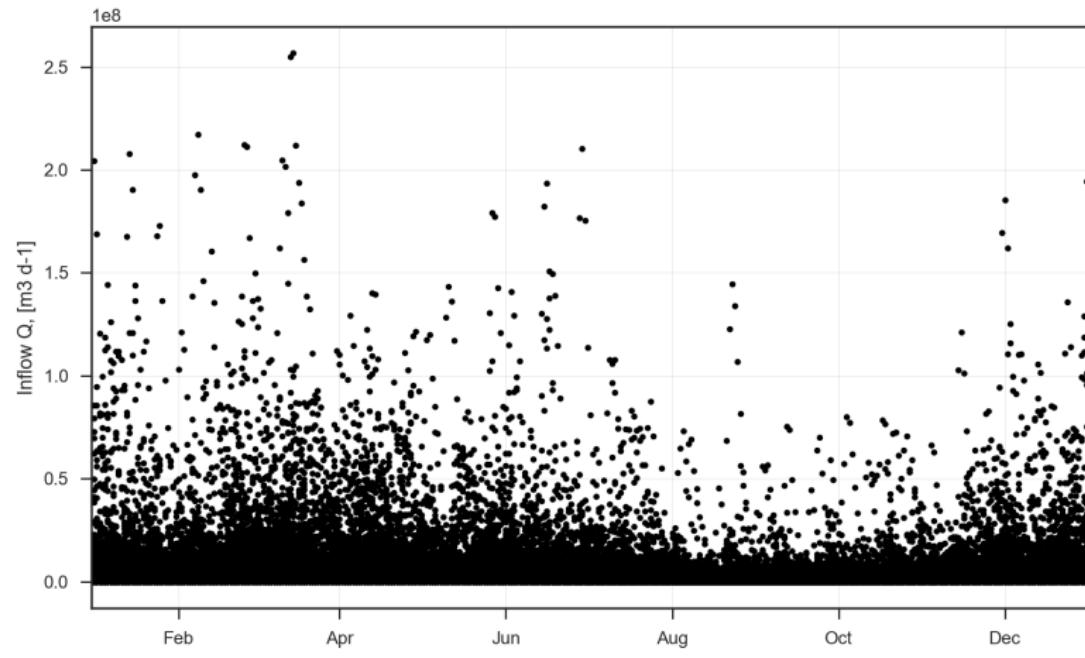
One year patterns

inflow T

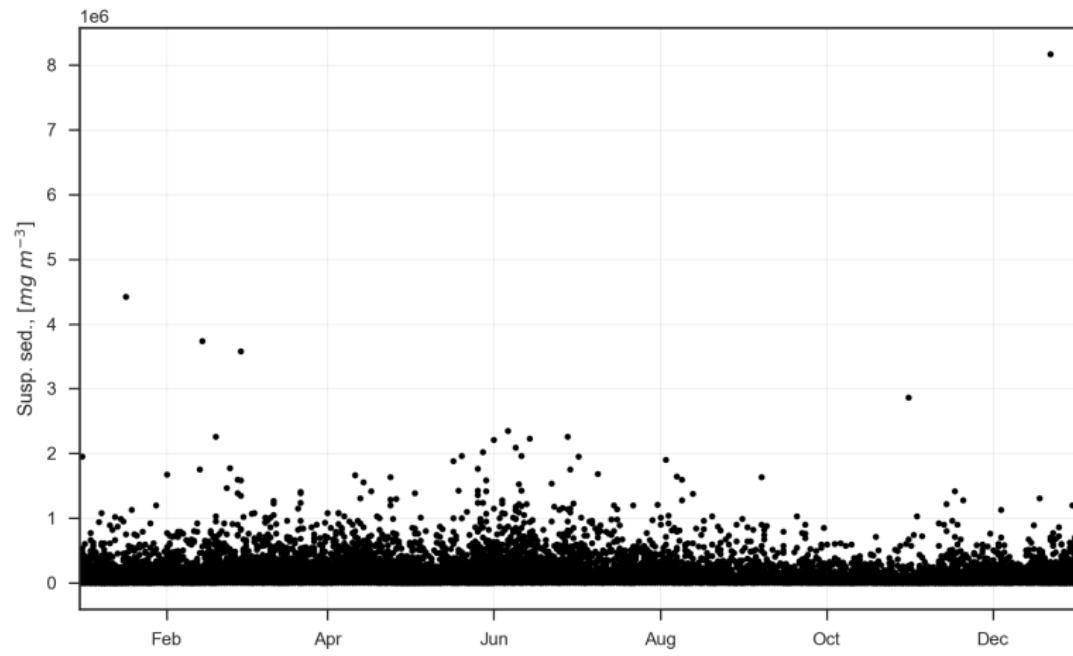




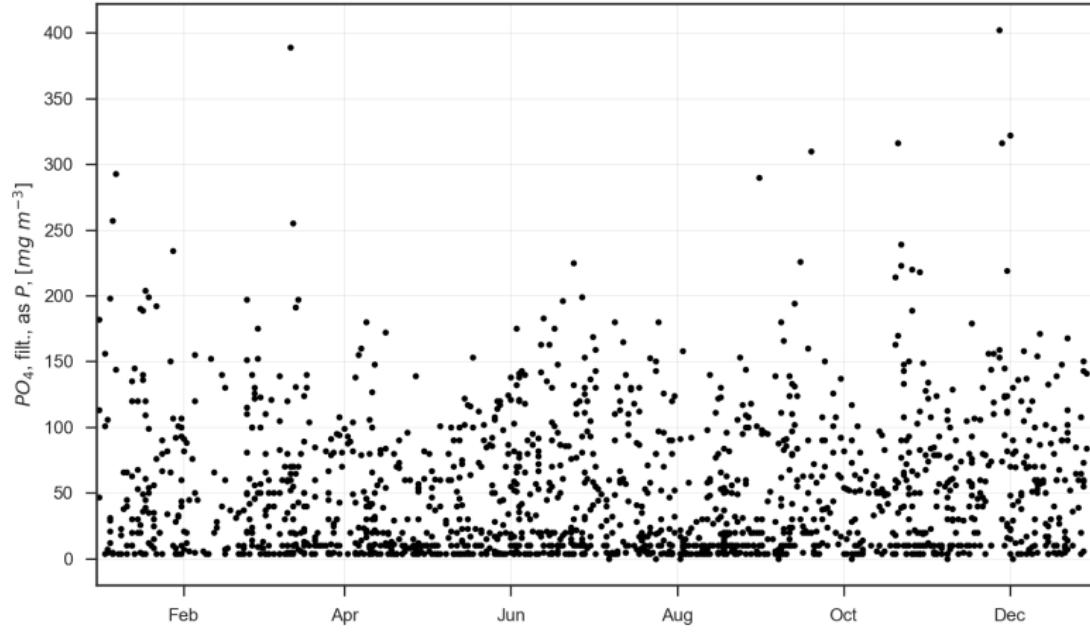
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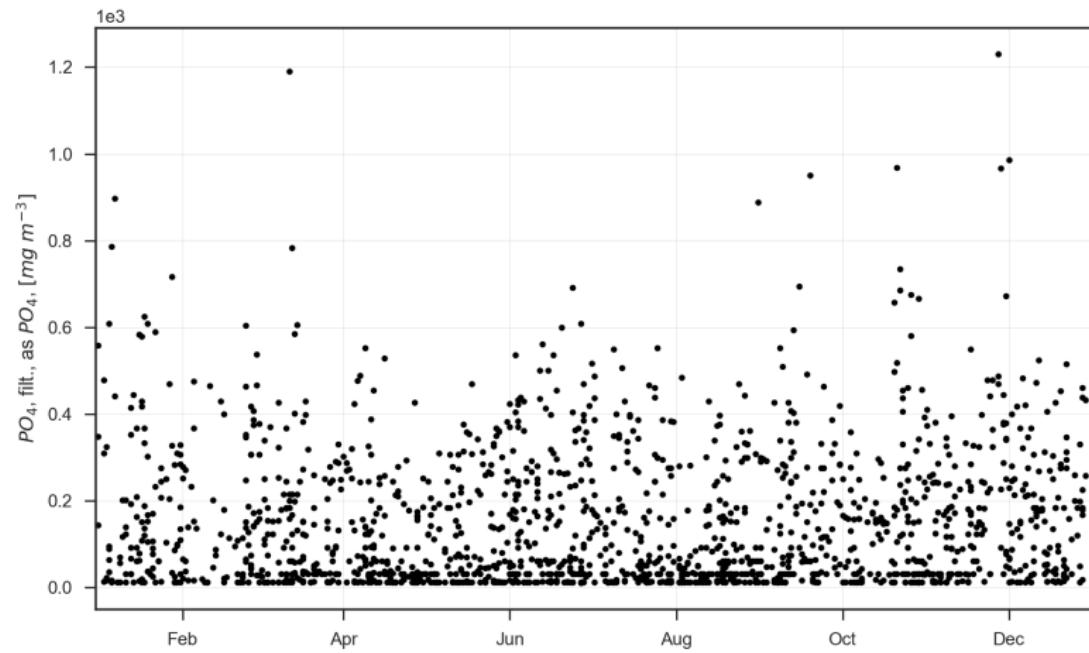
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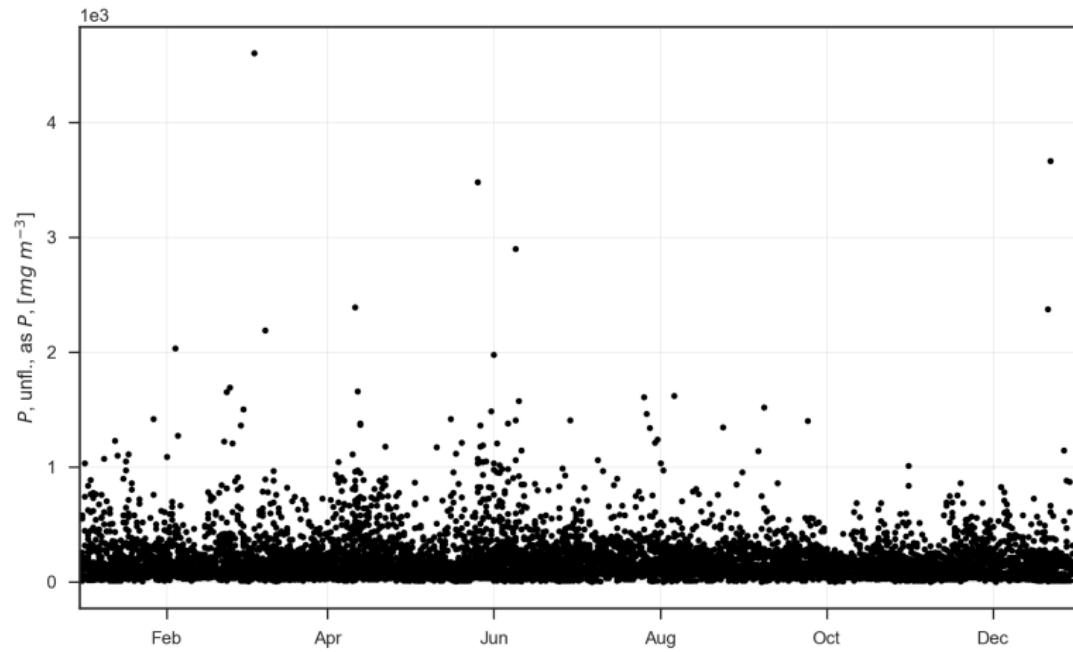
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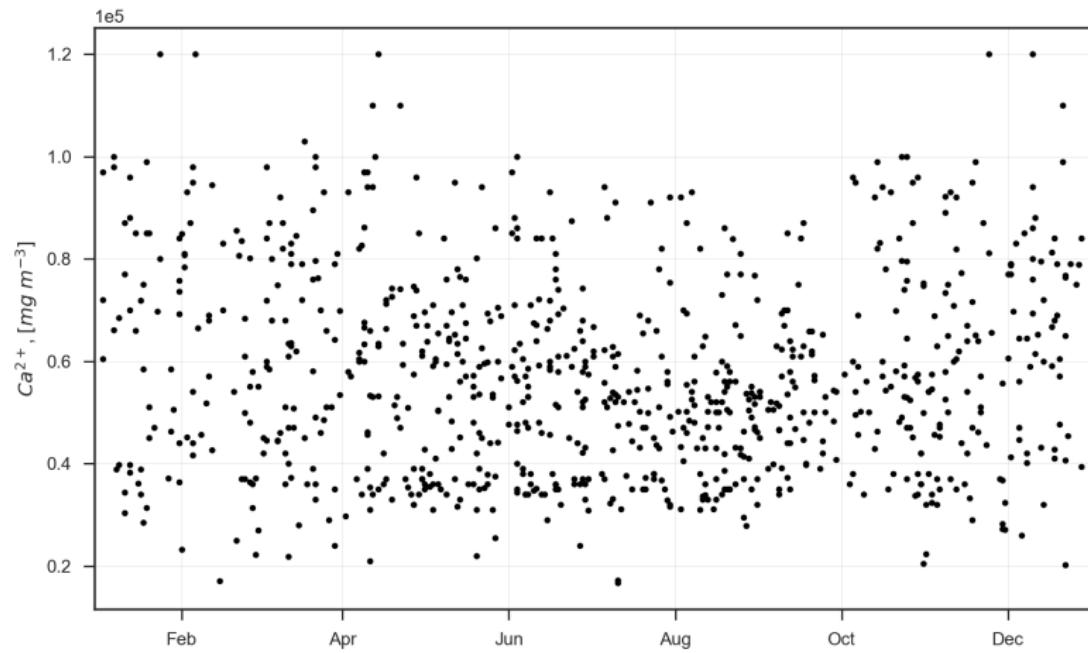
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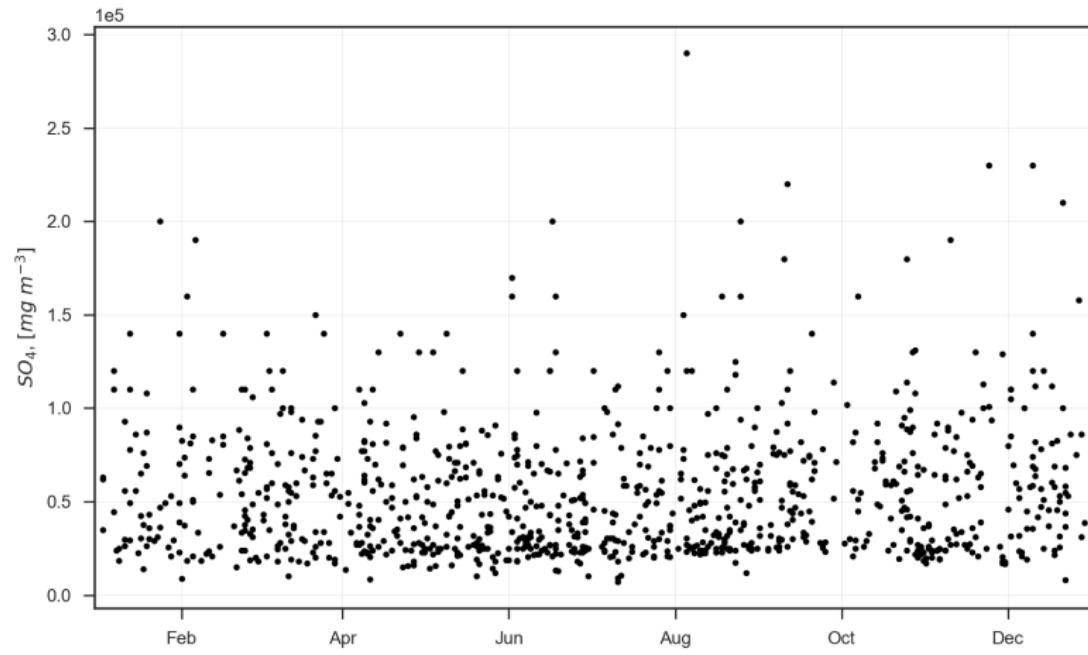
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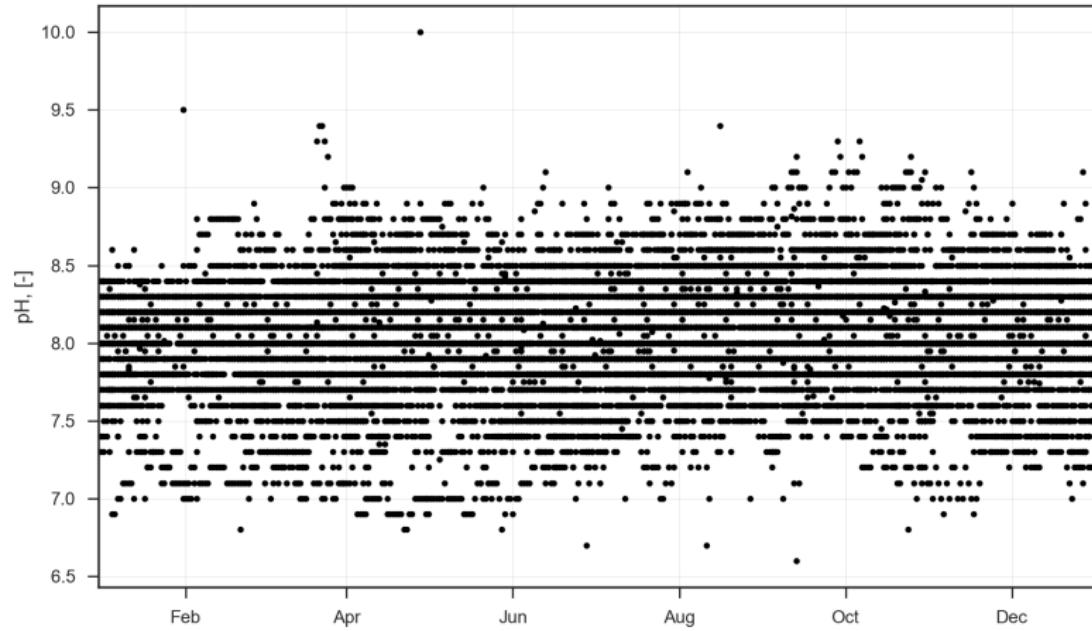
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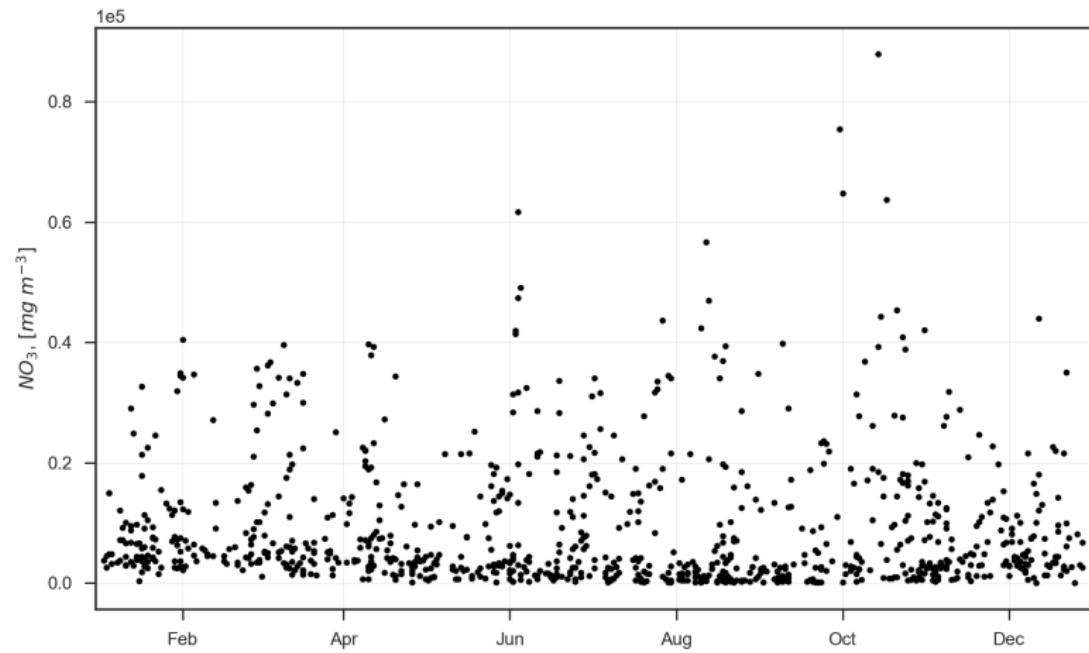
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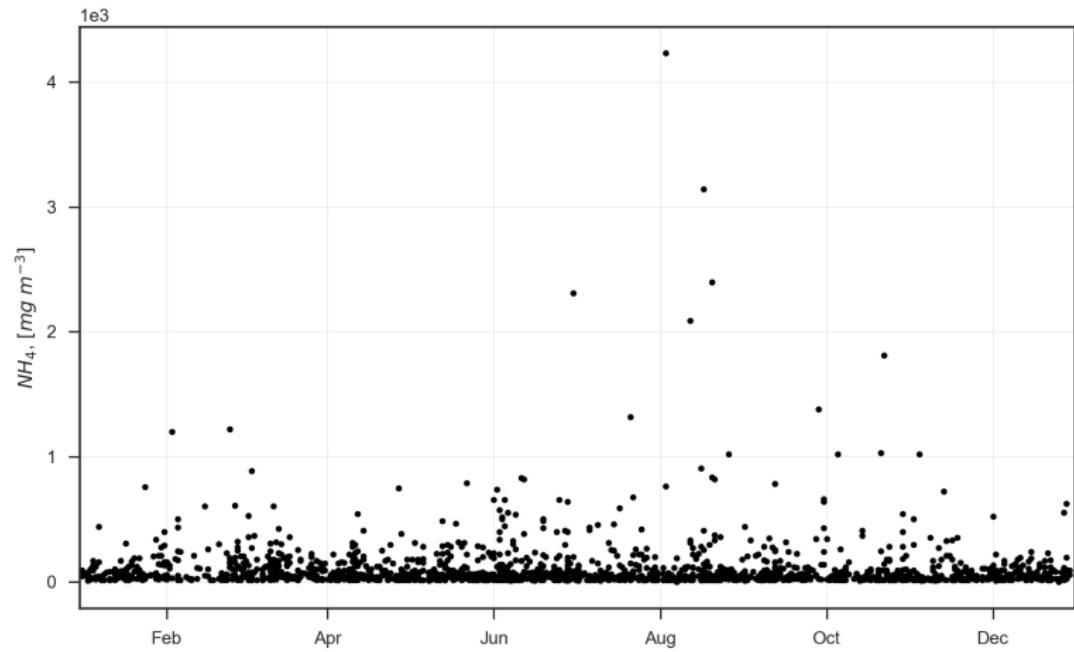
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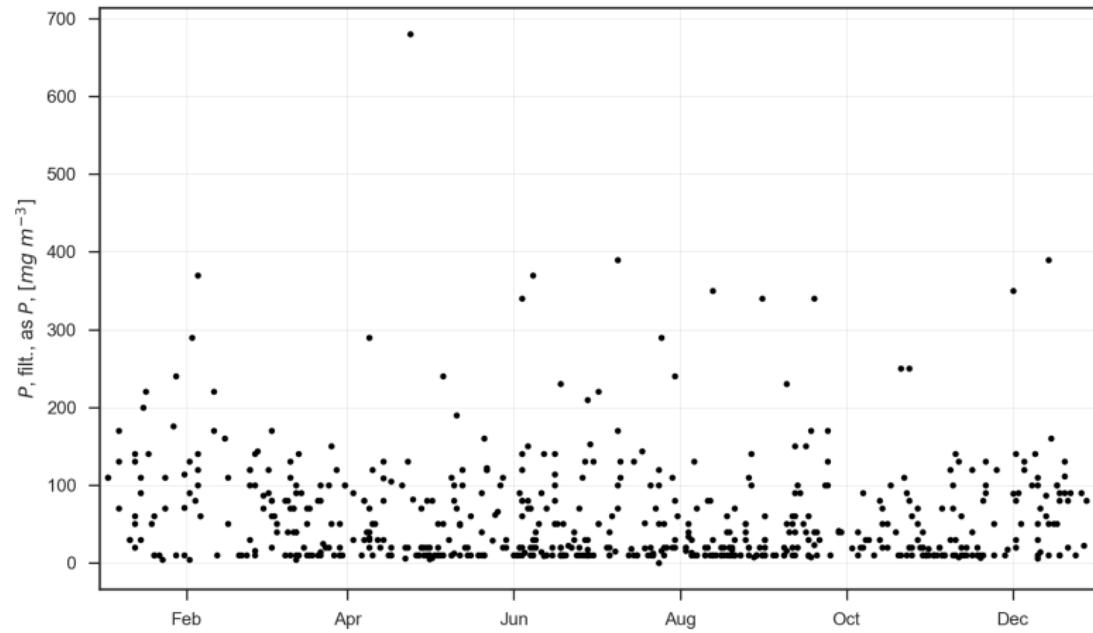
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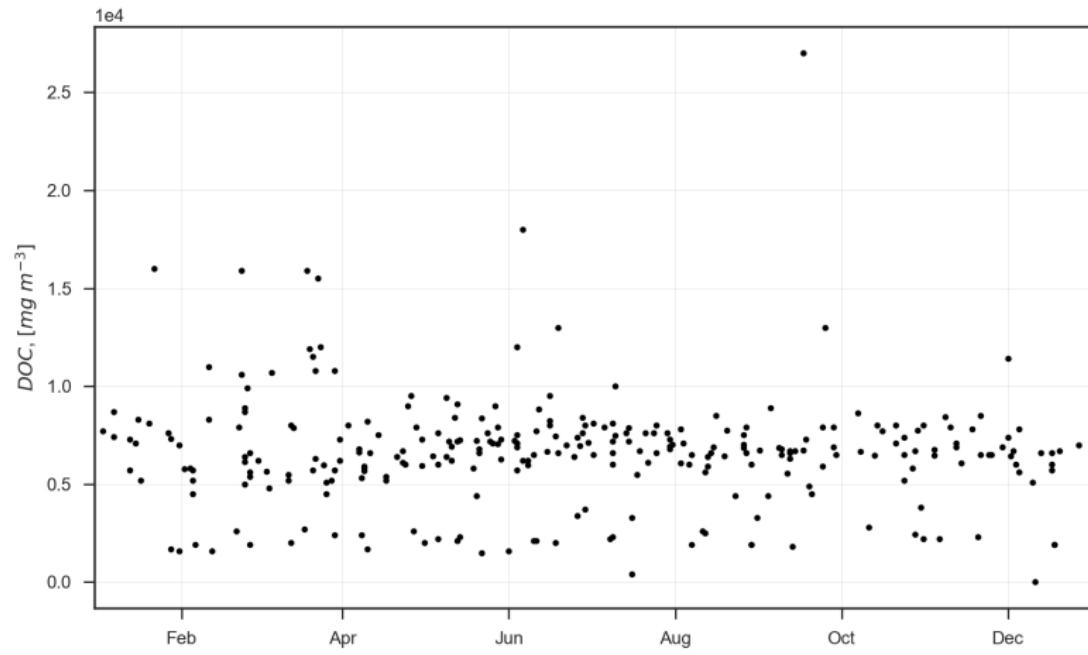
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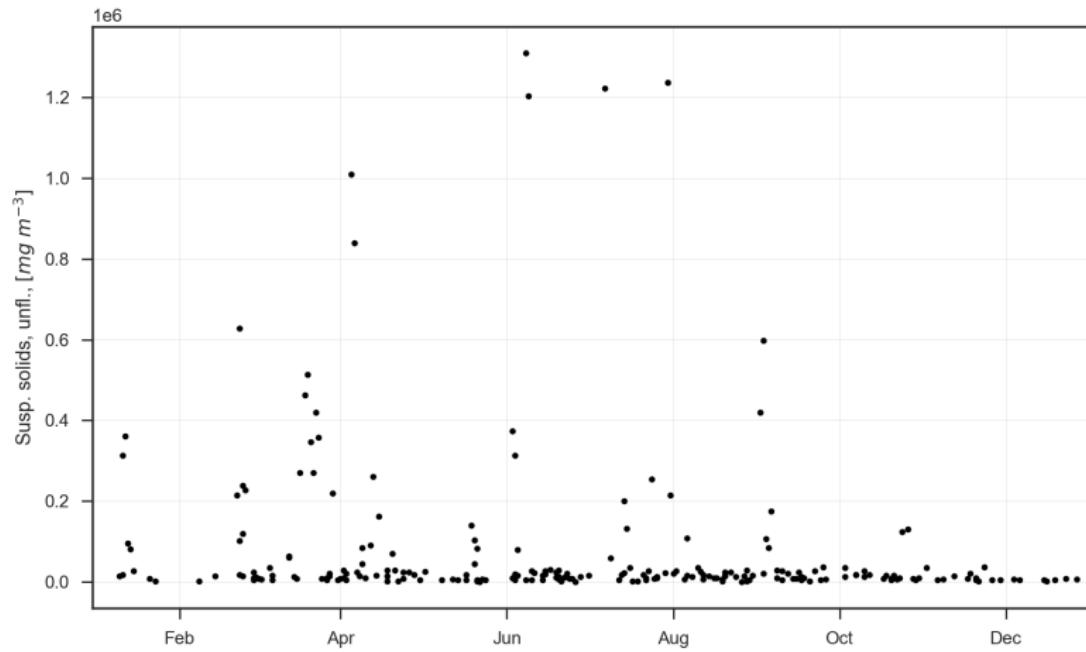
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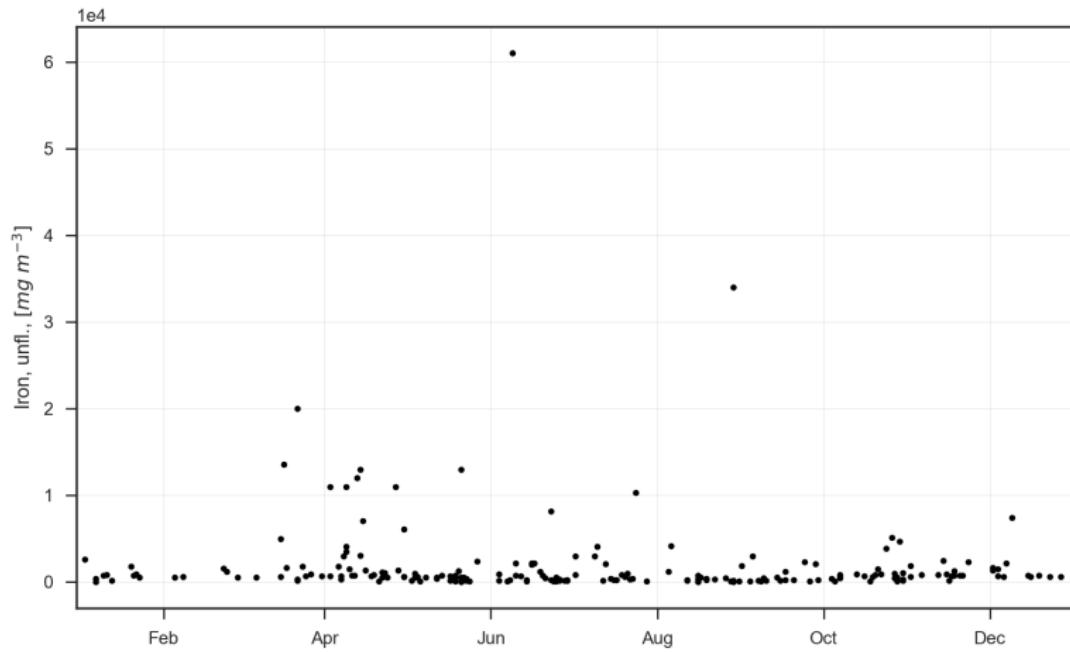
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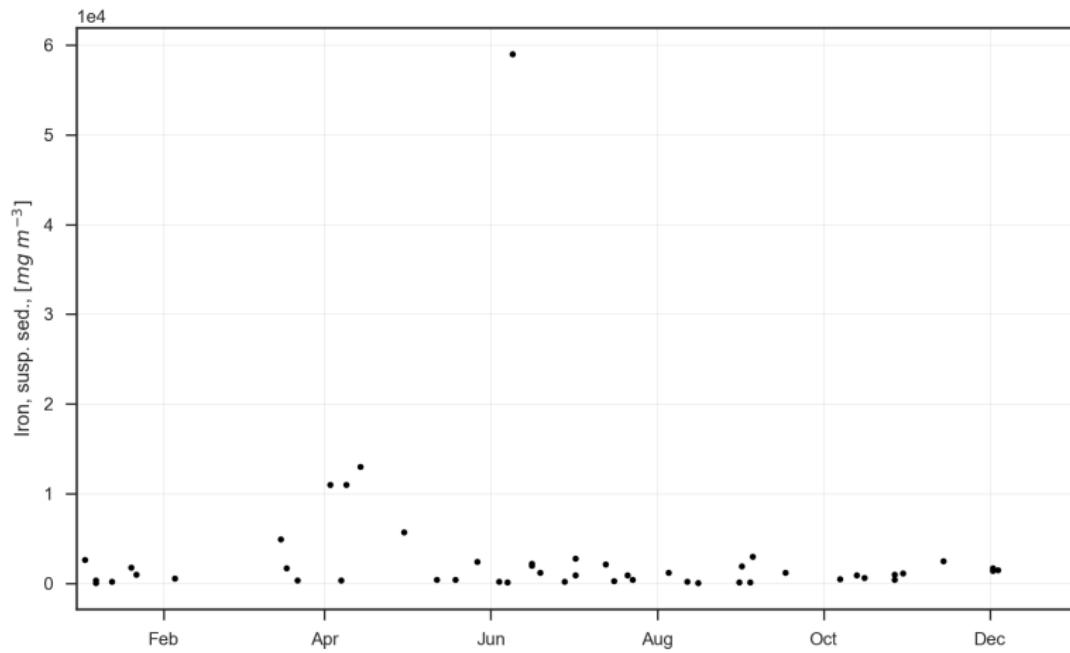
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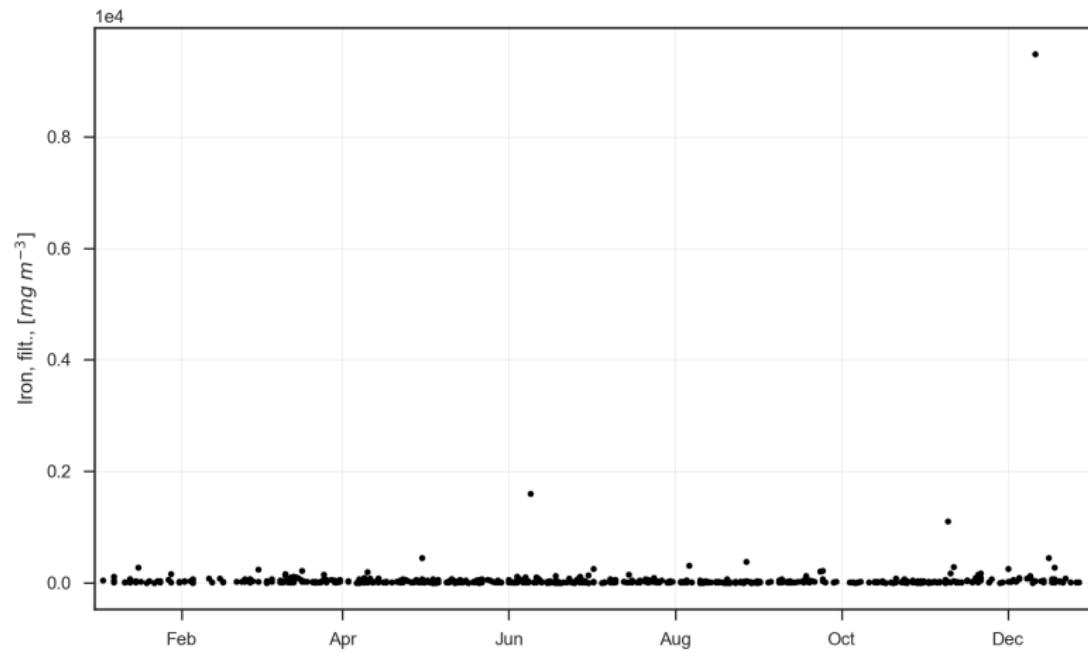


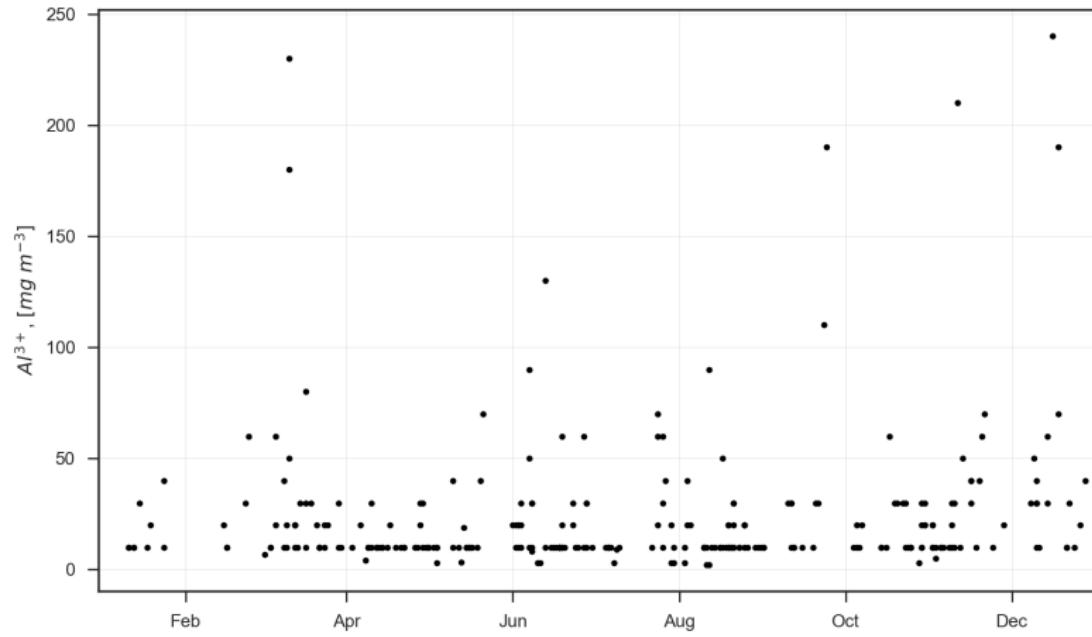
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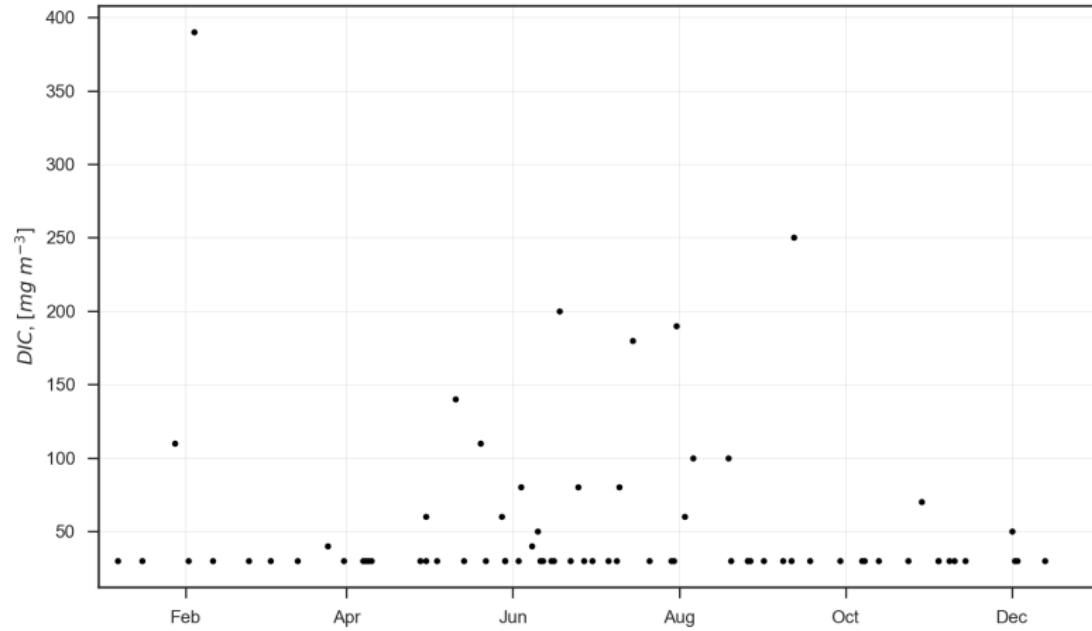


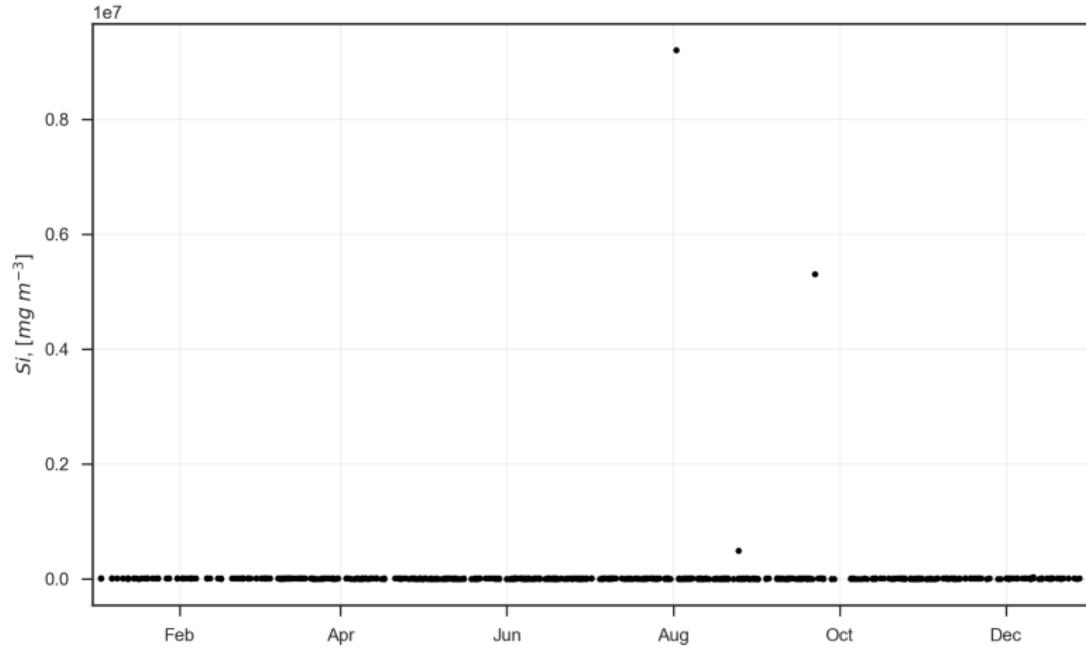
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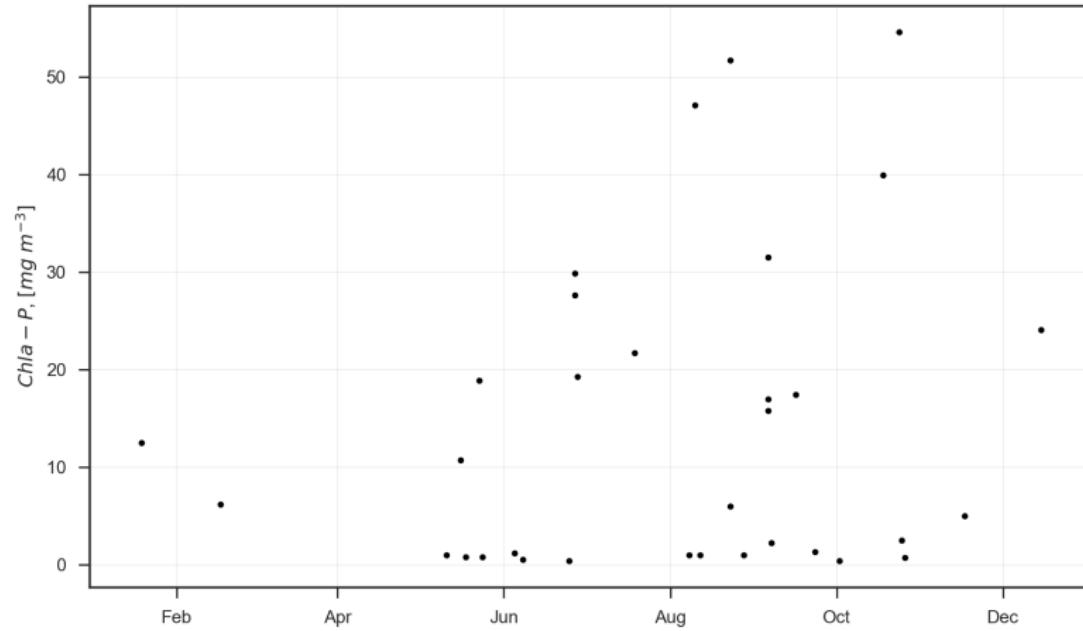




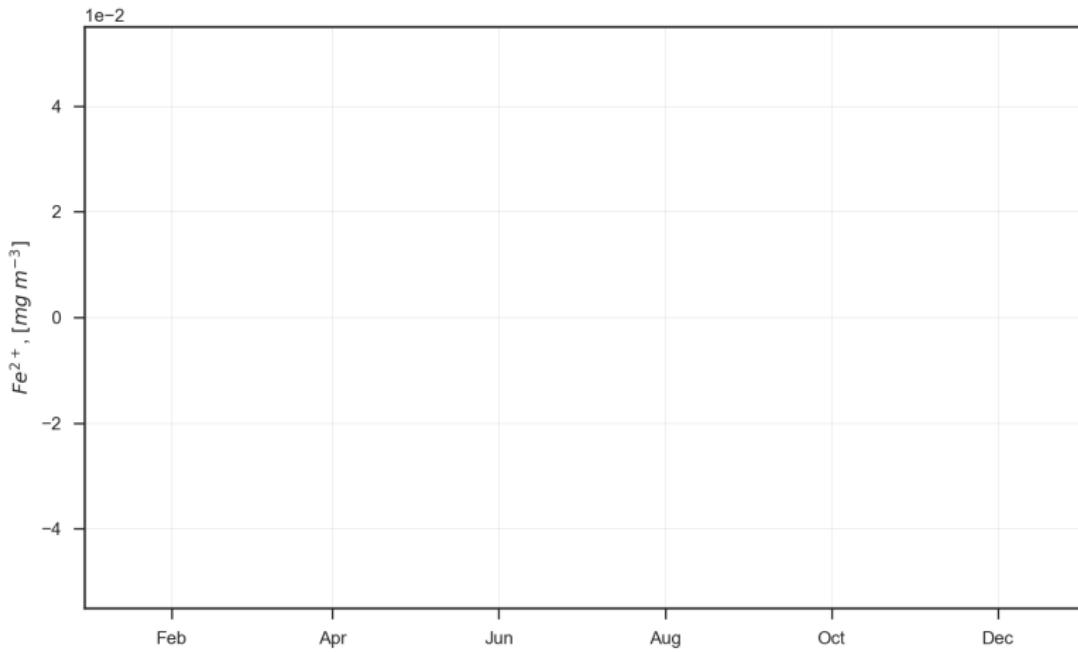




Chla

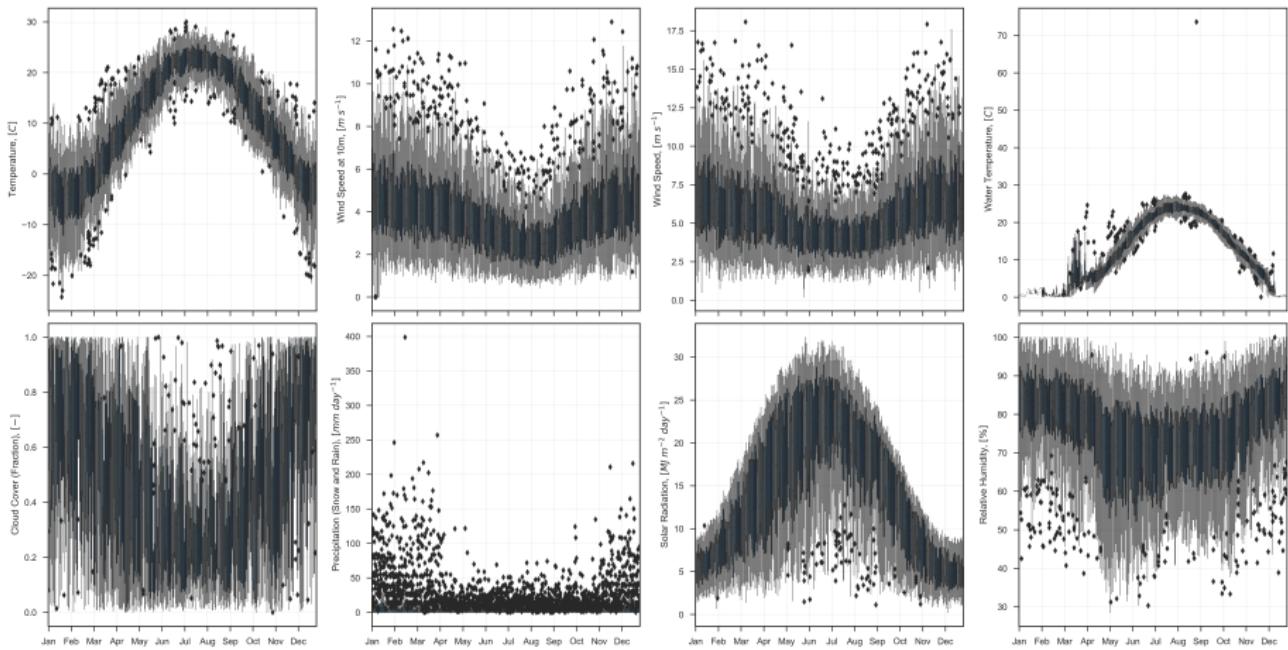


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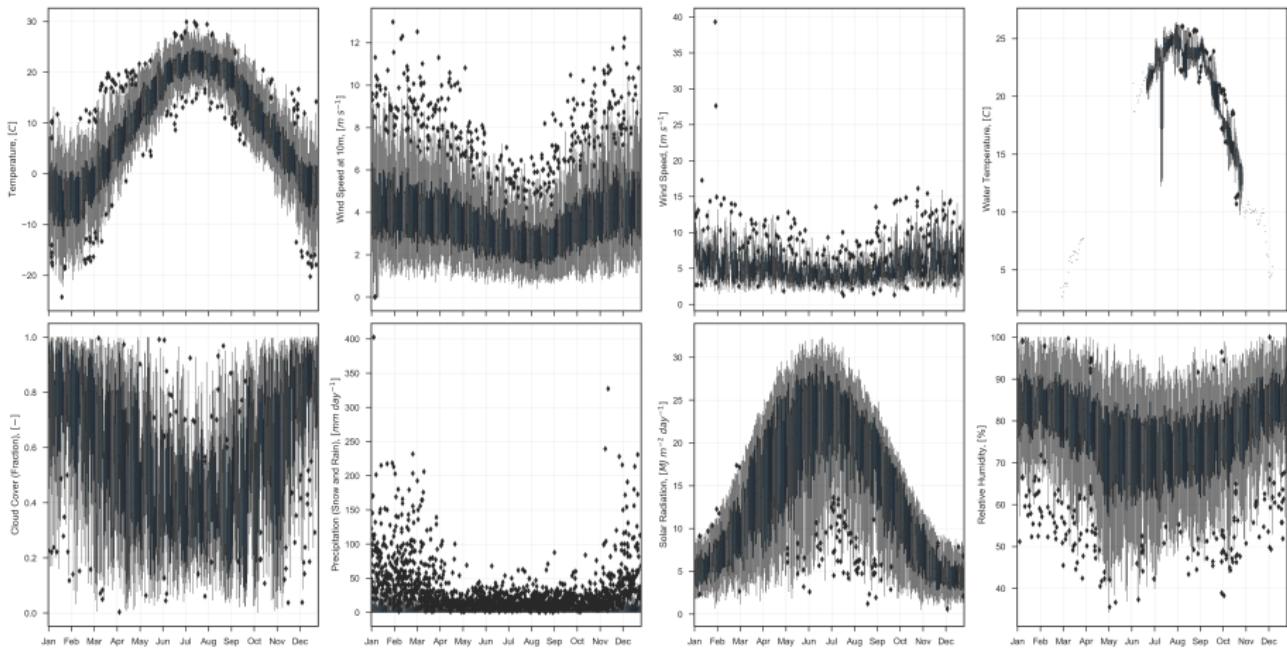


Weather Boxplots

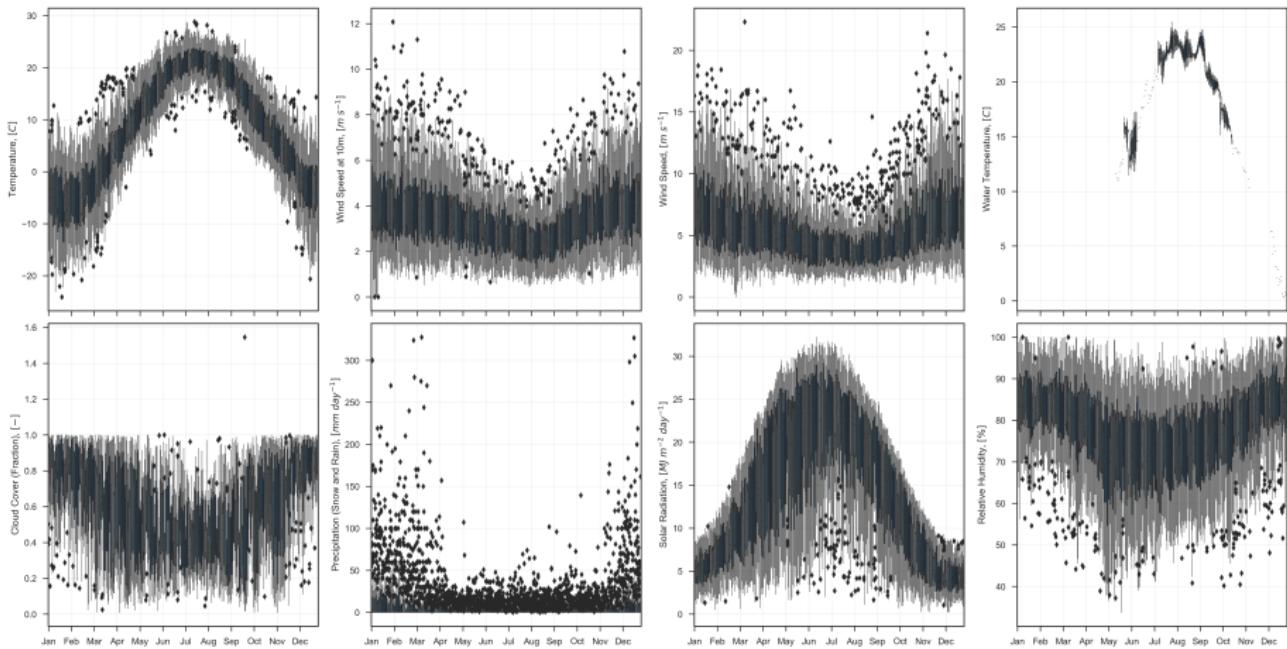
Western Basin: 1 year boxplot



Central Basin: 1 year boxplot



Eastern Basin: 1 year boxplot

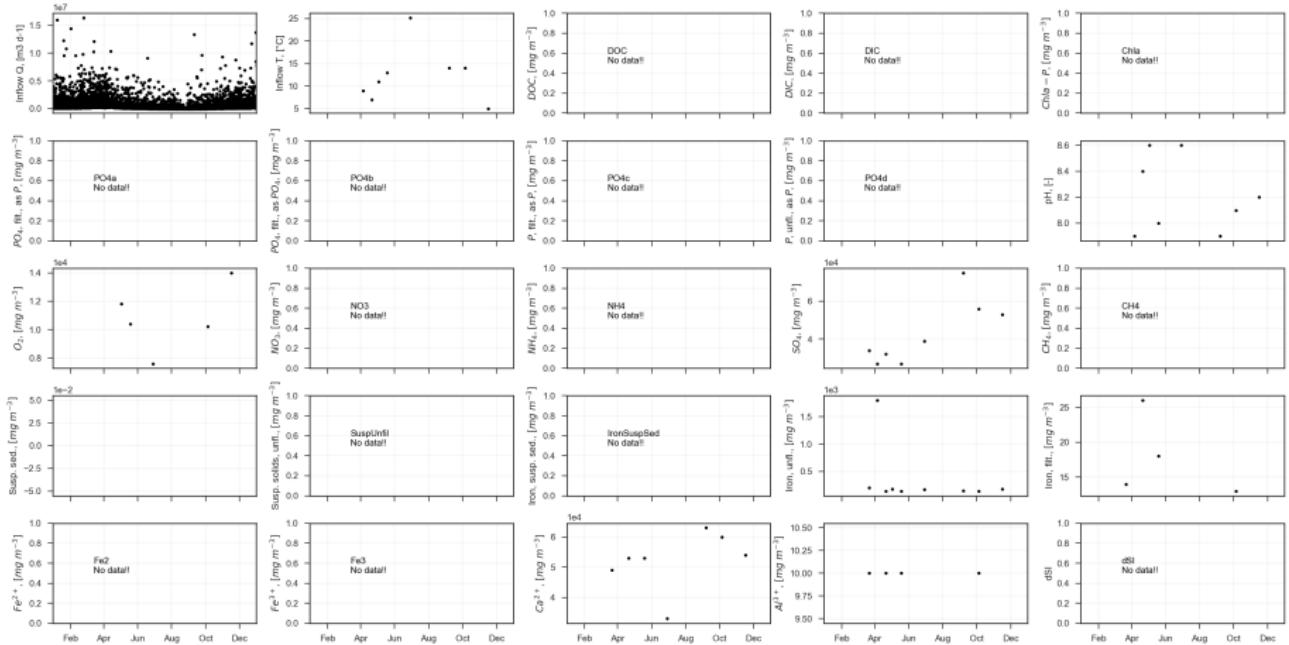


Separate plots of Rivers

Eastern basin

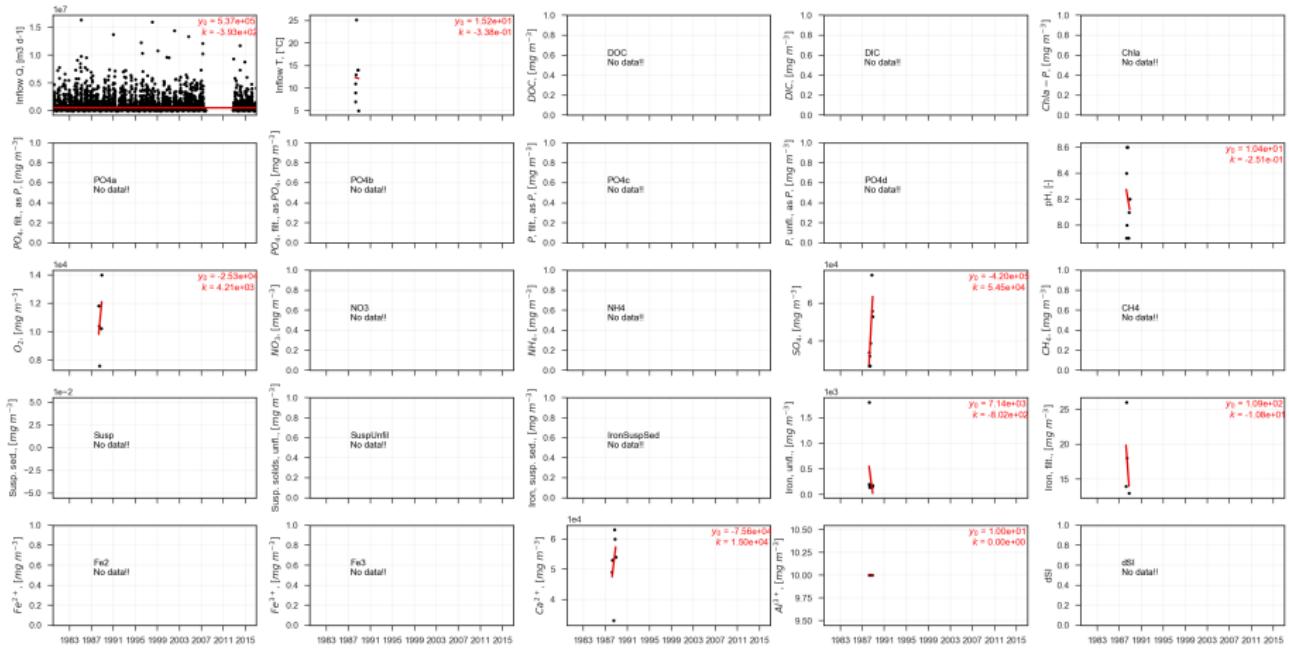
Eastern Basin: Buffalo Creek

One year plot



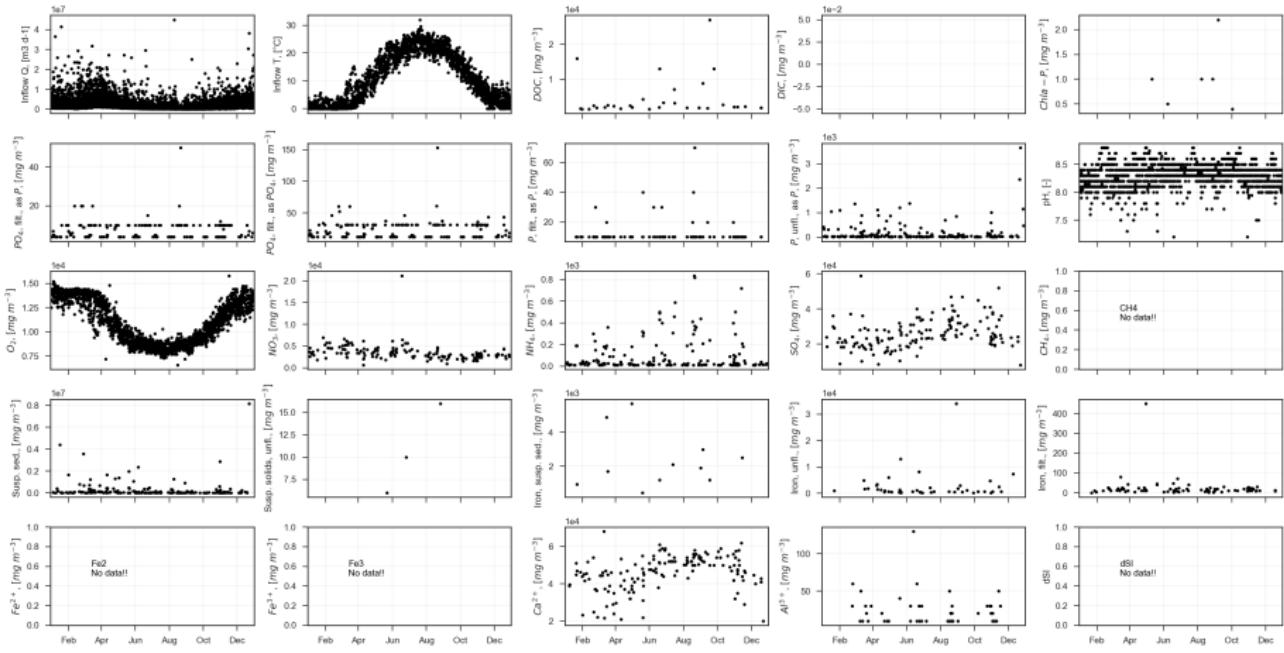
Eastern Basin: Buffalo Creek

All years plot



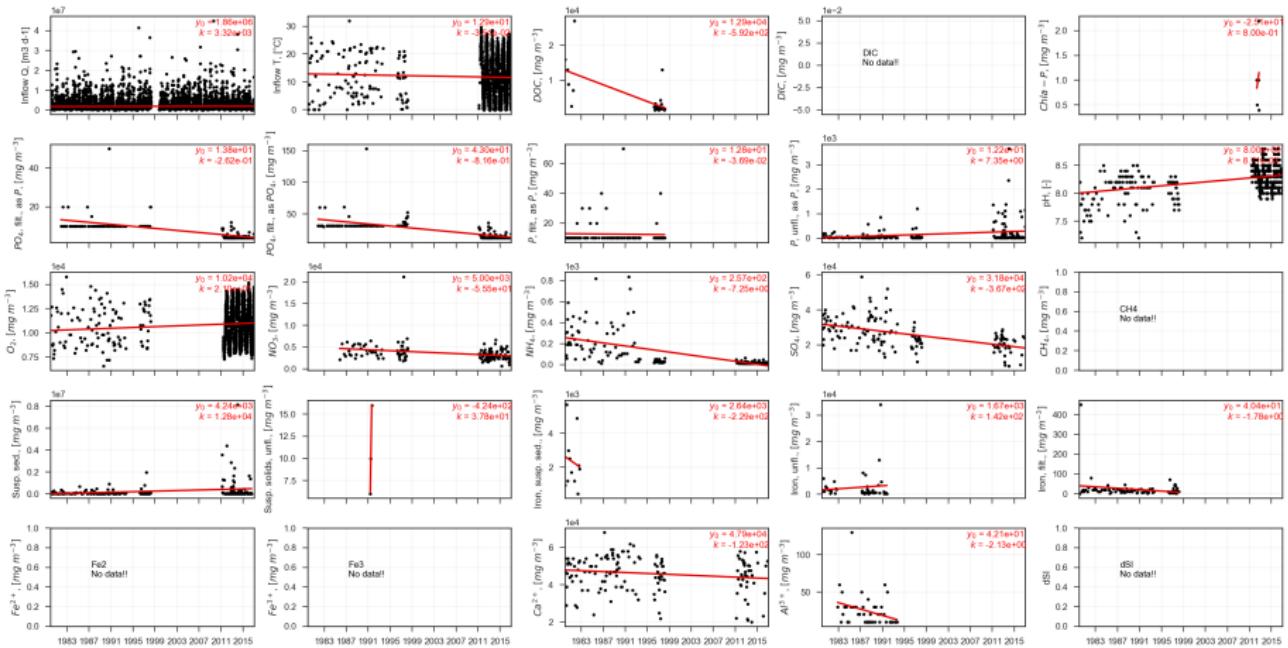
Eastern Basin: Cattaraugus Creek

One year plot



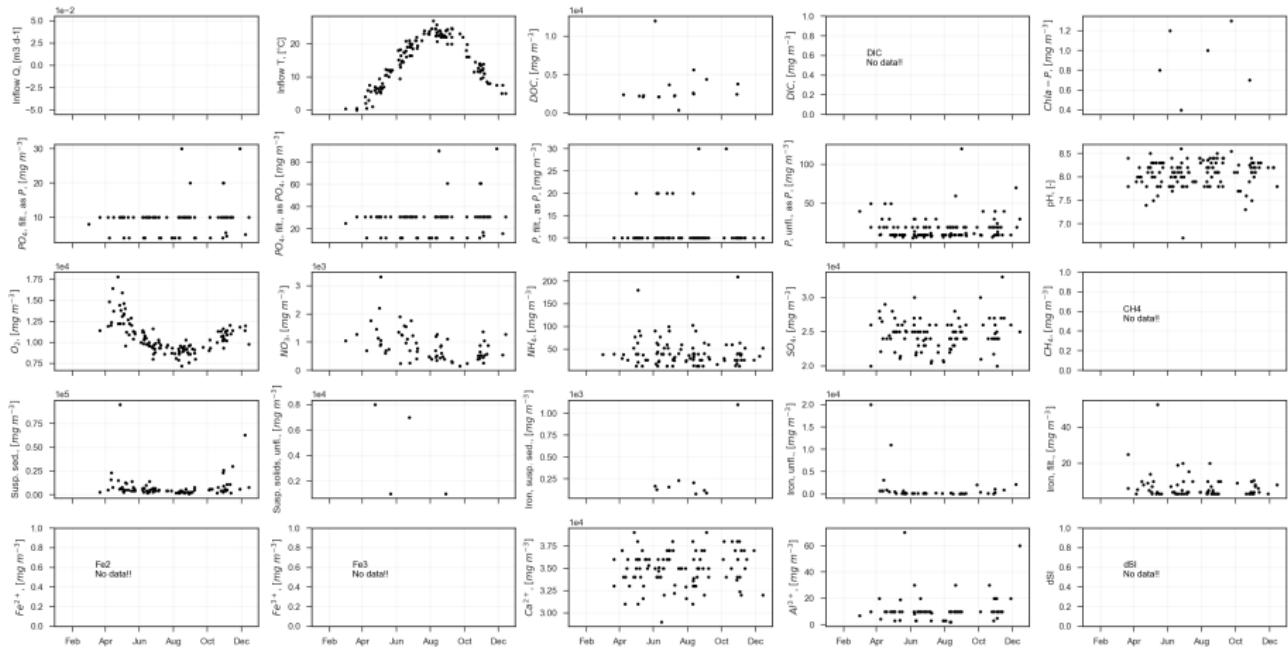
Eastern Basin: Cattaraugus Creek

All years plot



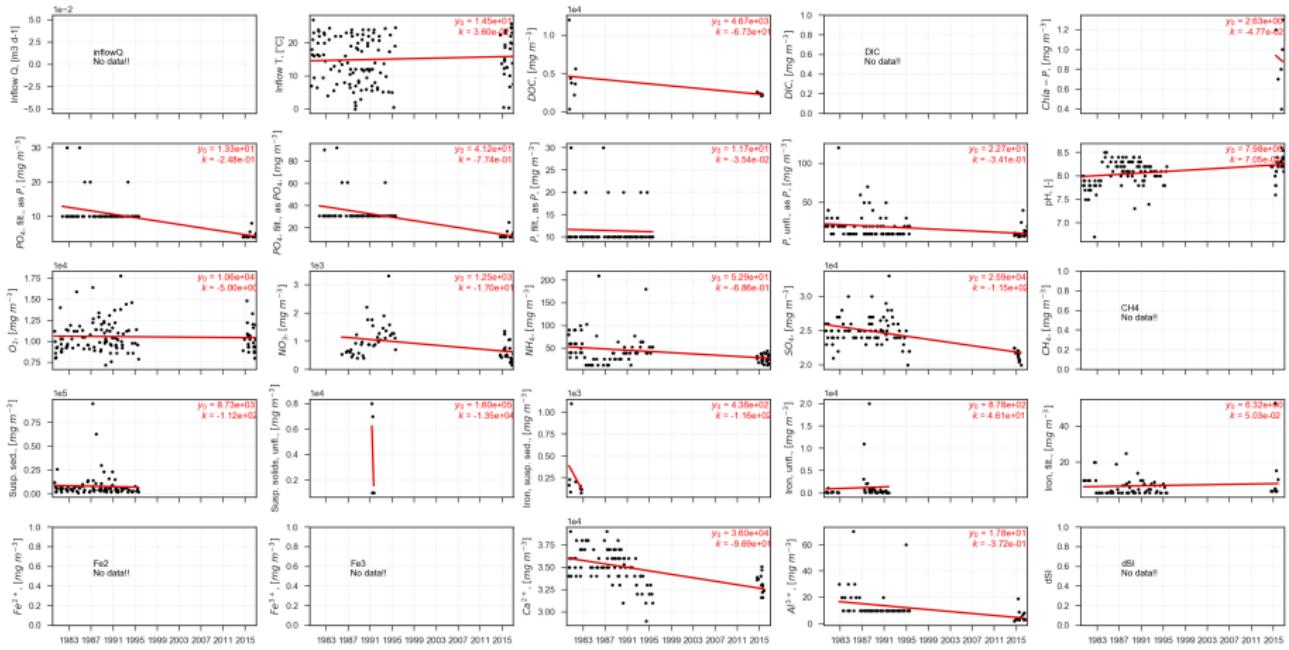
Eastern Basin: Niagara river

One year plot



Eastern Basin: Niagara river

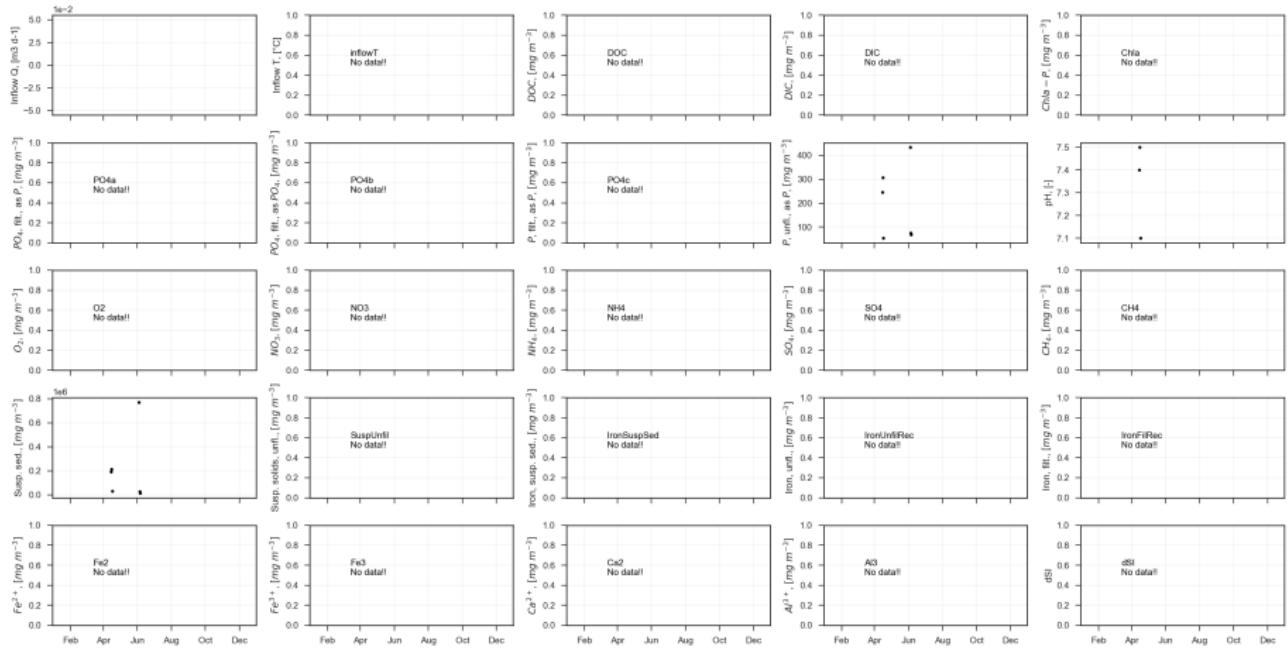
All years plot



Central basin

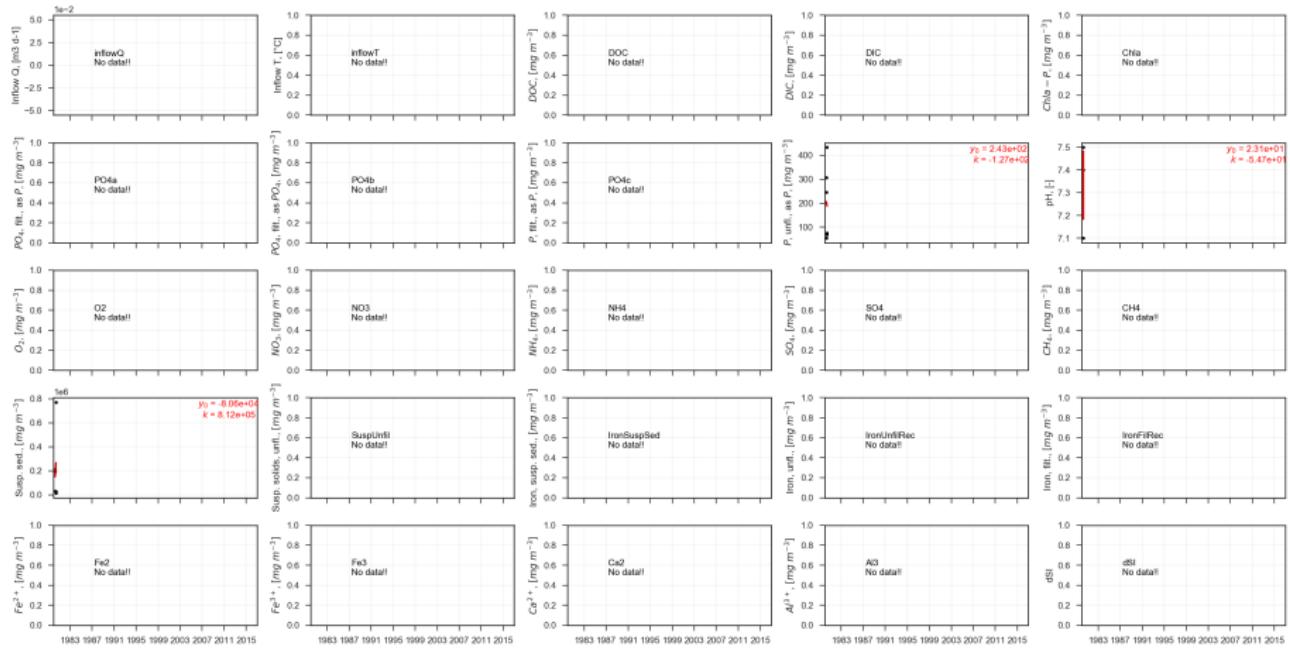
Central Basin: Ashtabula River

One year plot



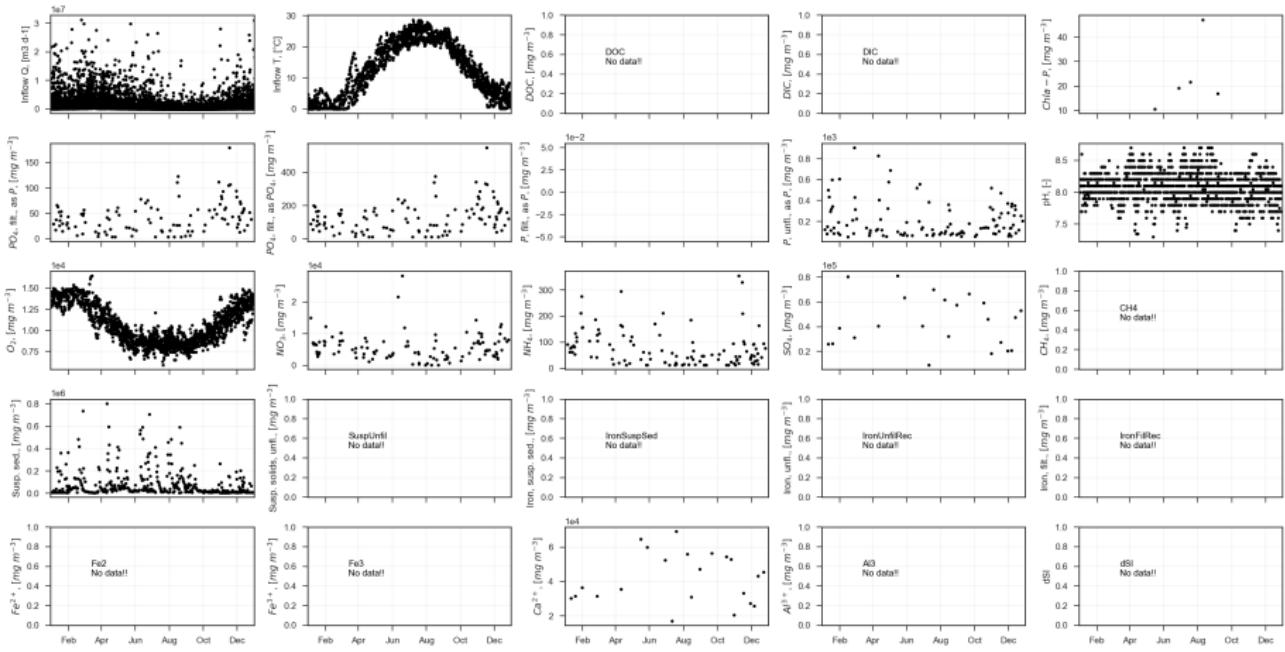
Central Basin: Ashtabula River

All years plot



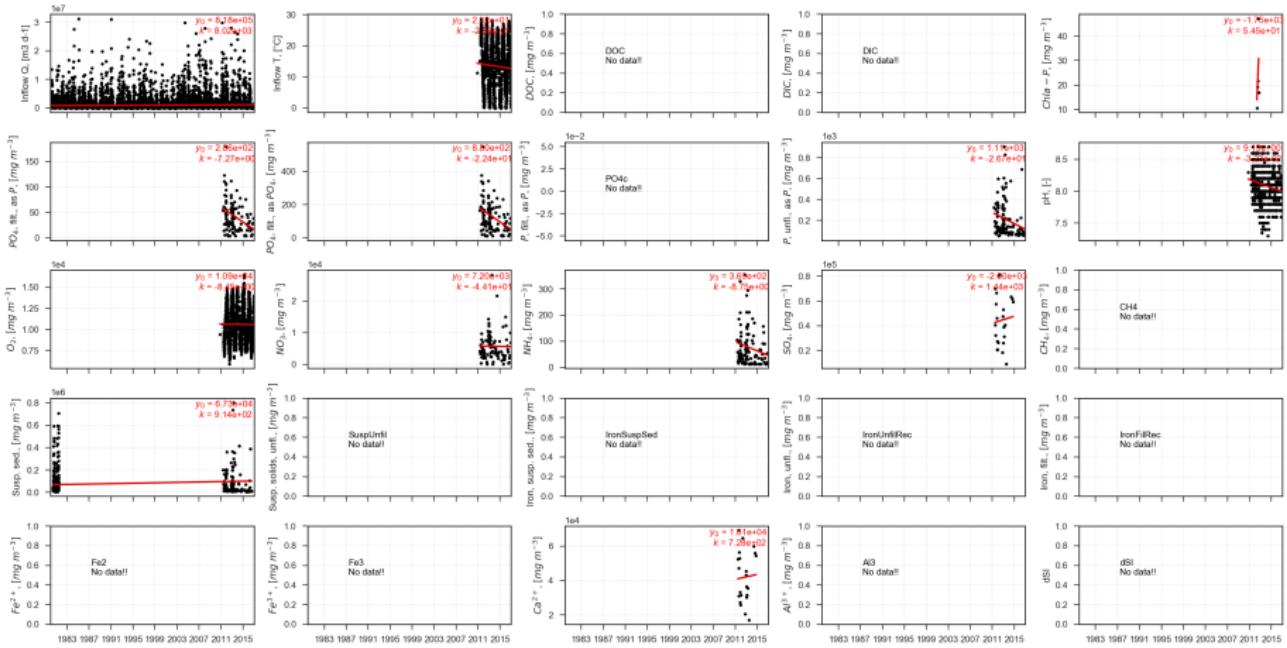
Central Basin: Black River

One year plot



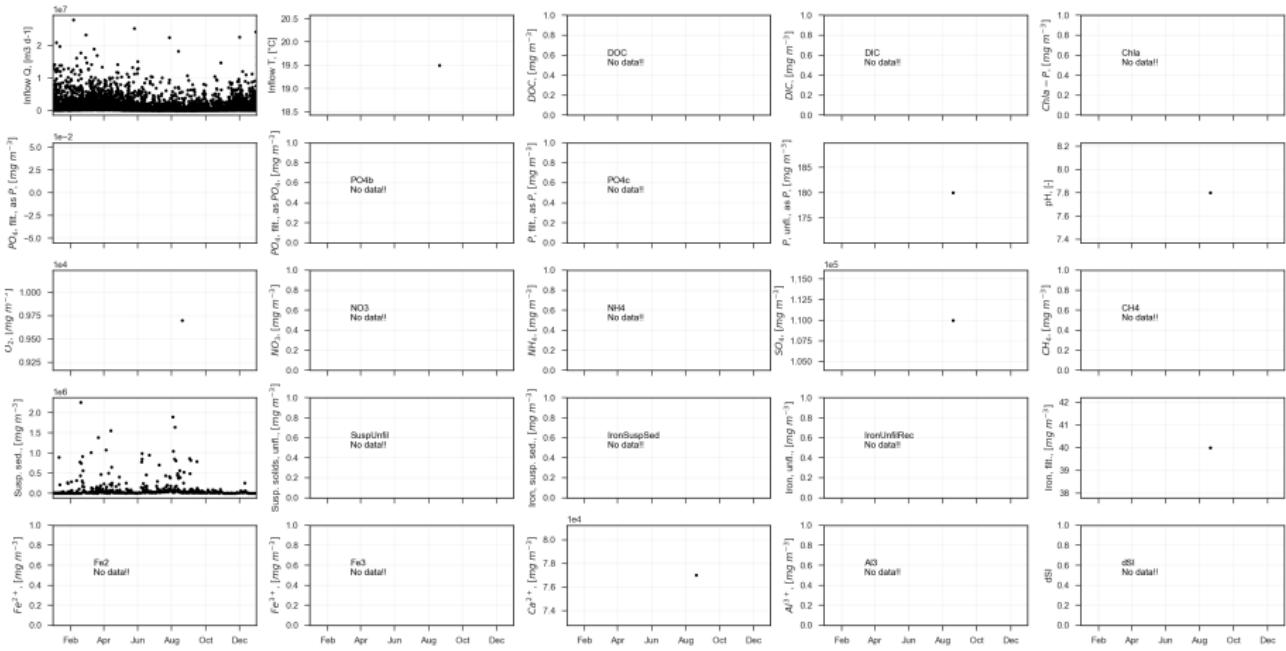
Central Basin: Black River

All years plot



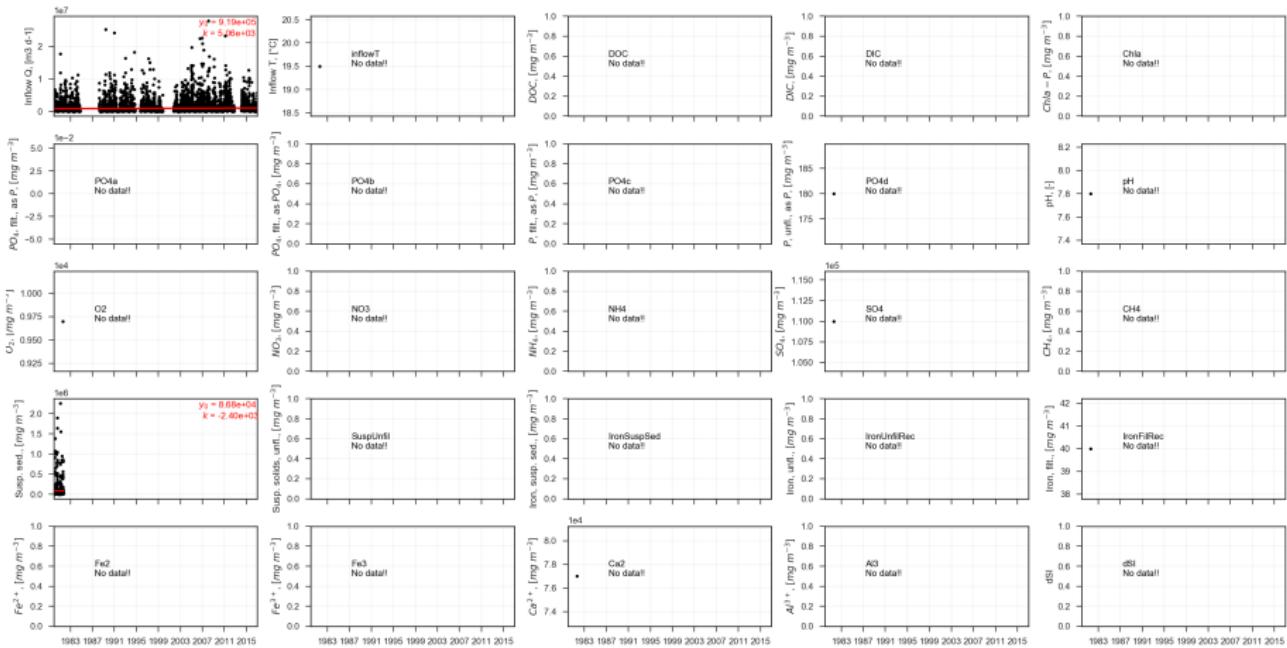
Central Basin: Chagrin River

One year plot



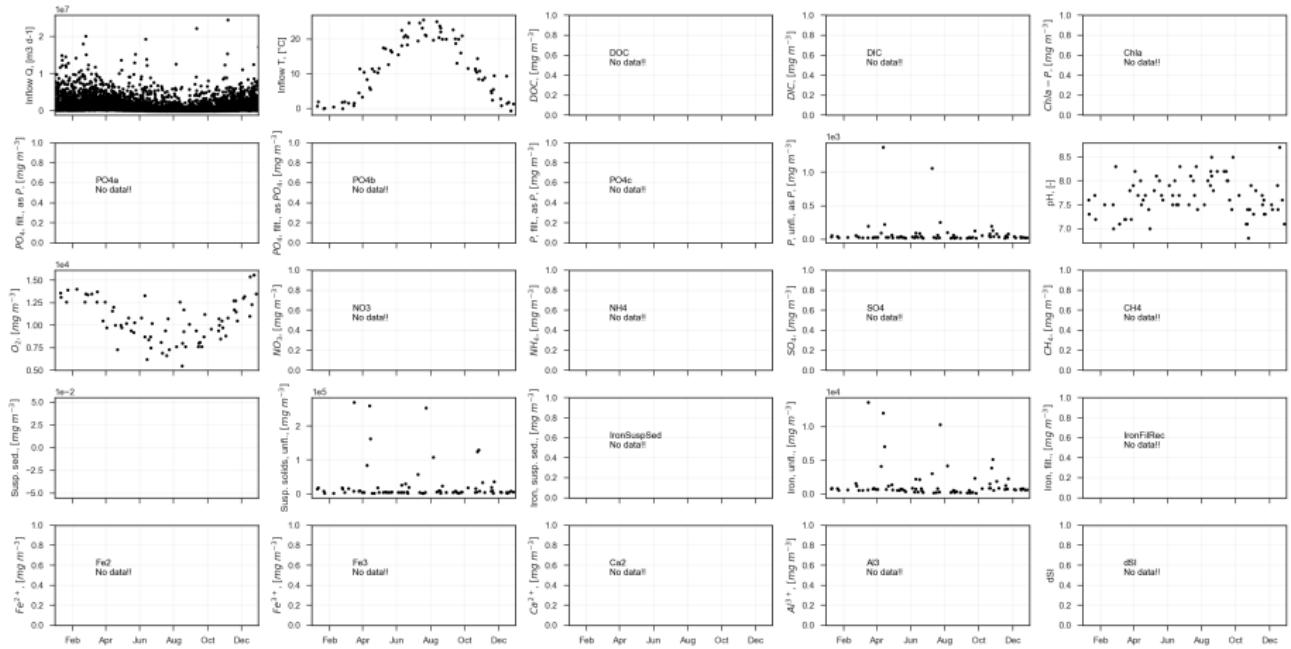
Central Basin: Chagrin River

All years plot



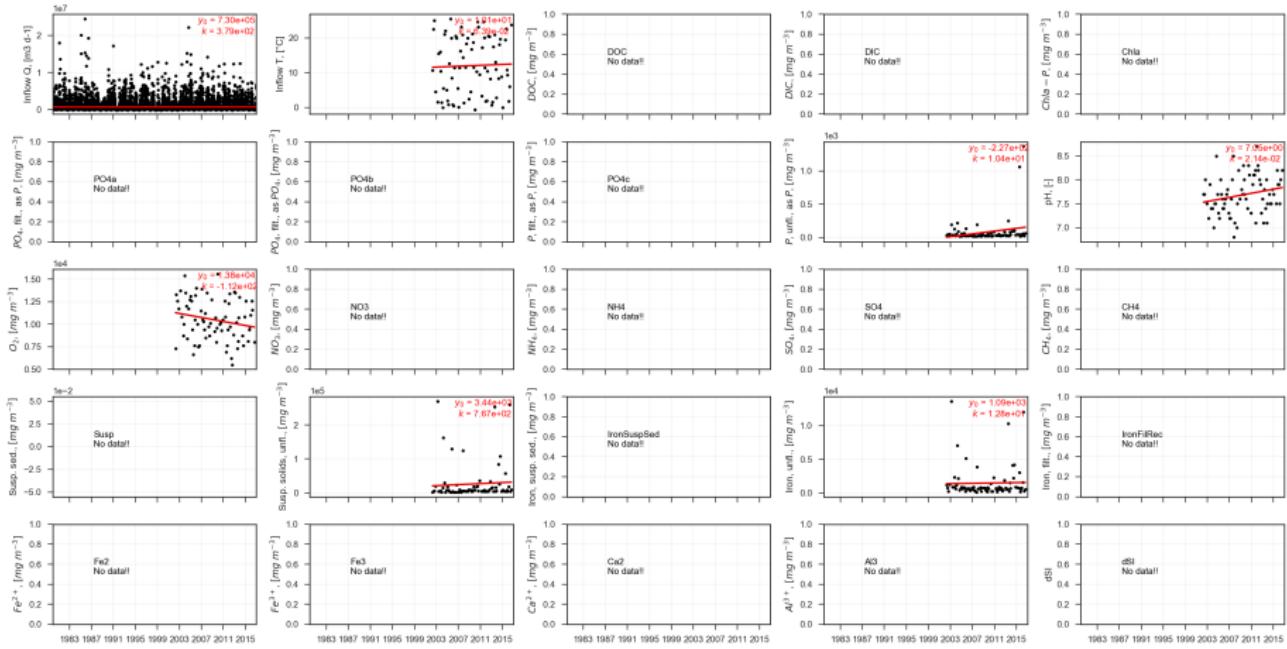
Central Basin: Conneaut Creek

One year plot



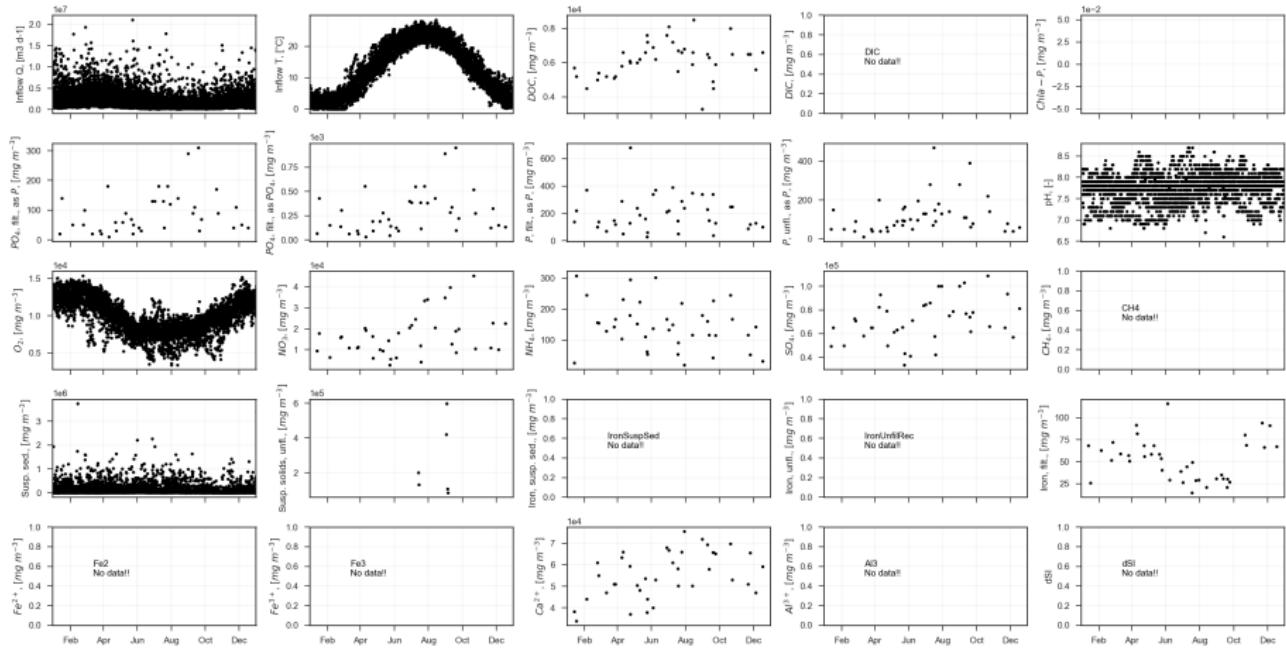
Central Basin: Conneaut Creek

All years plot

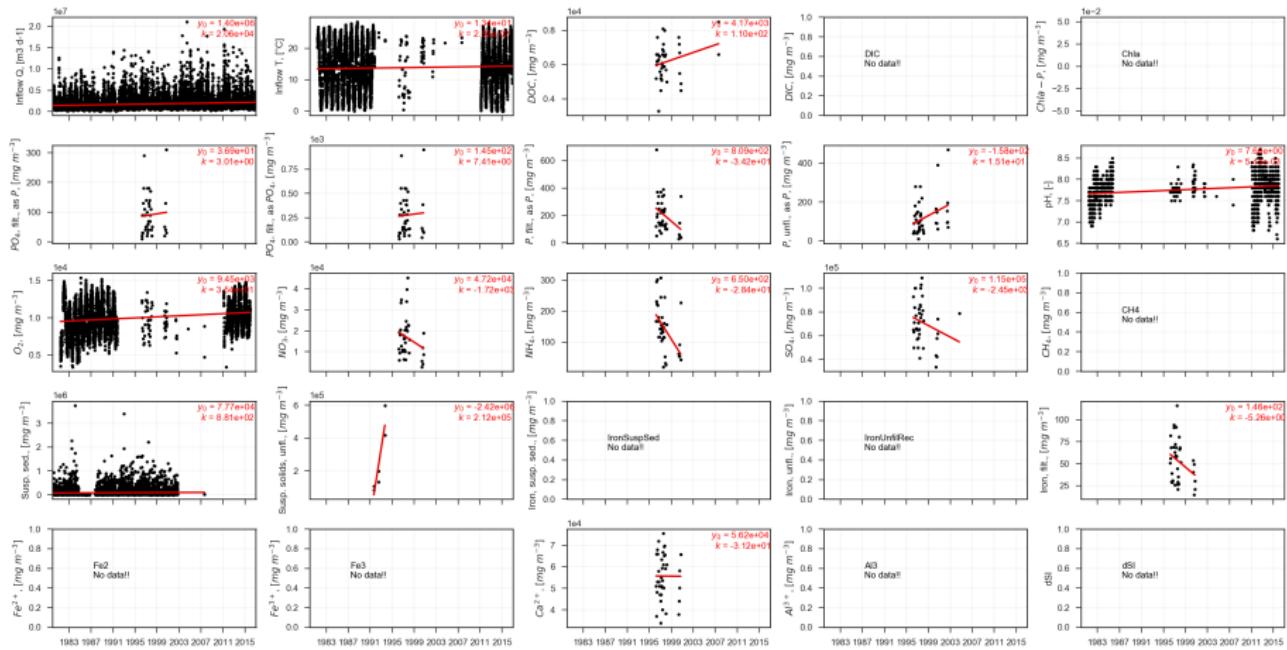


Central Basin: Cuyahoga River

One year plot

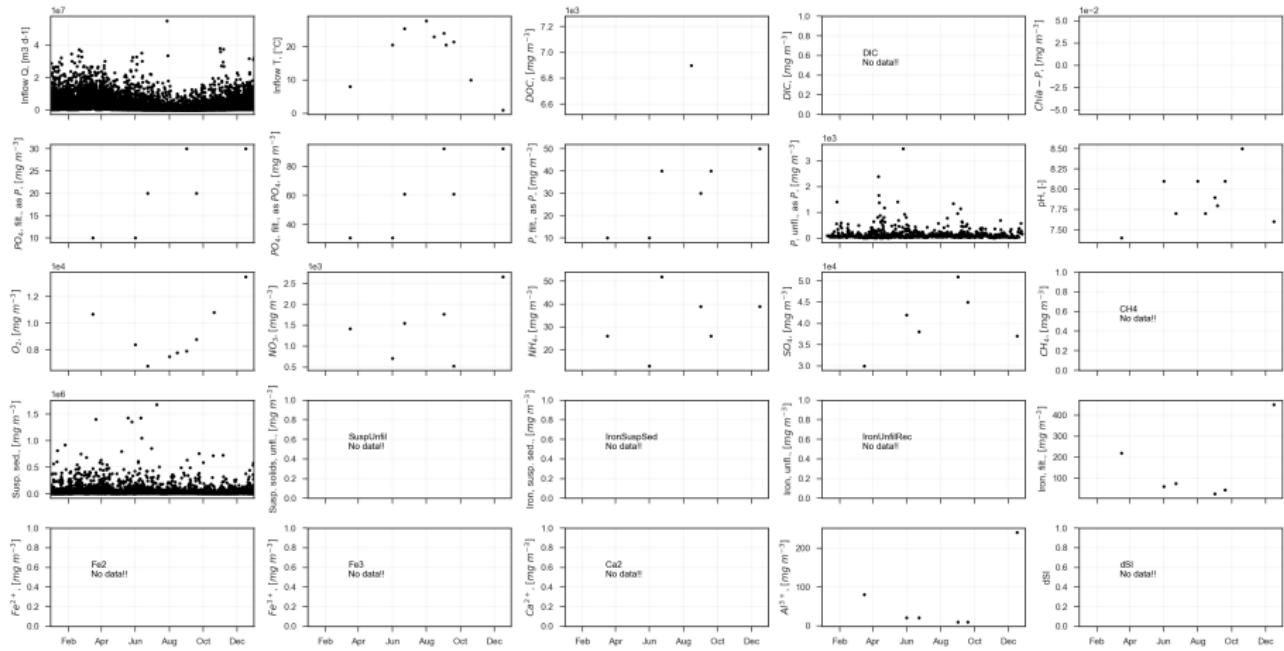


Central Basin: Cuyahoga River All years plot



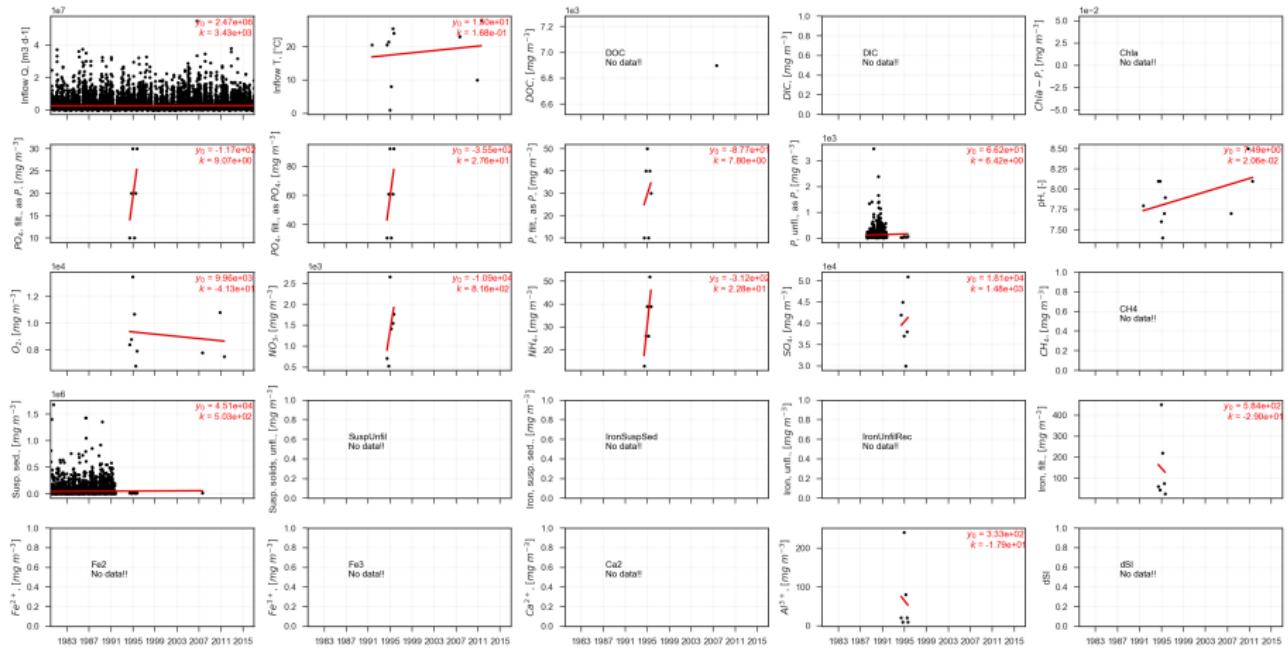
Central Basin: Grand River

One year plot



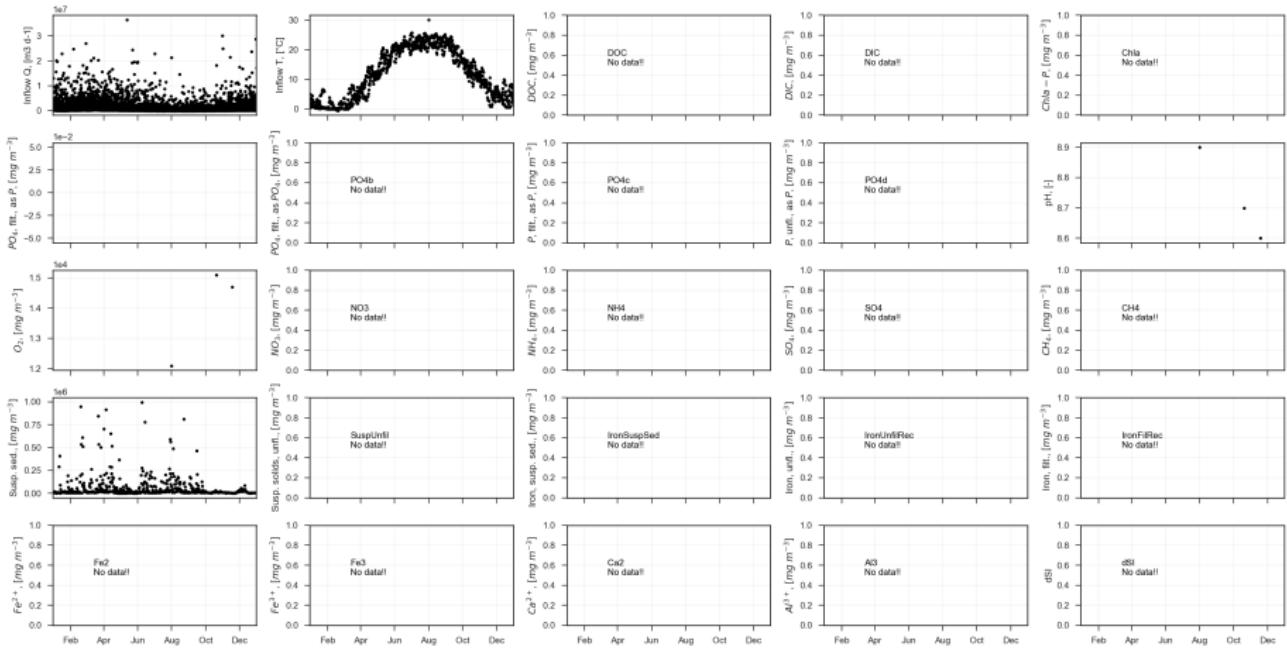
Central Basin: Grand River

All years plot



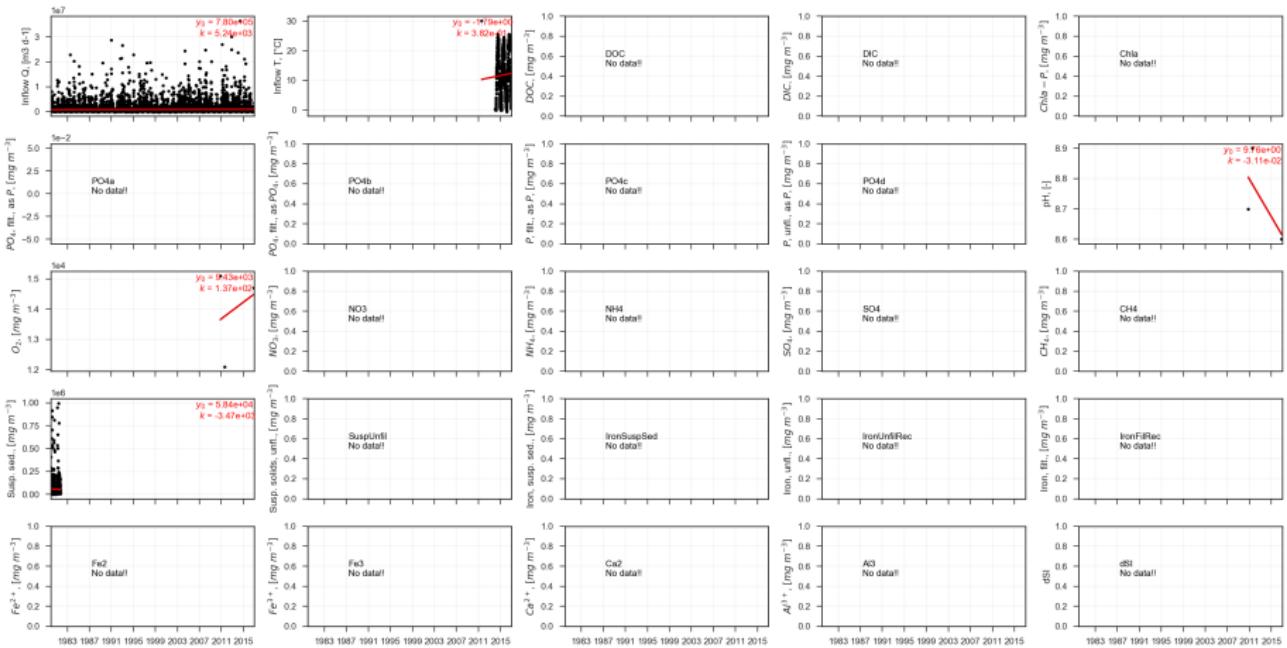
Central Basin: Rocky River

One year plot



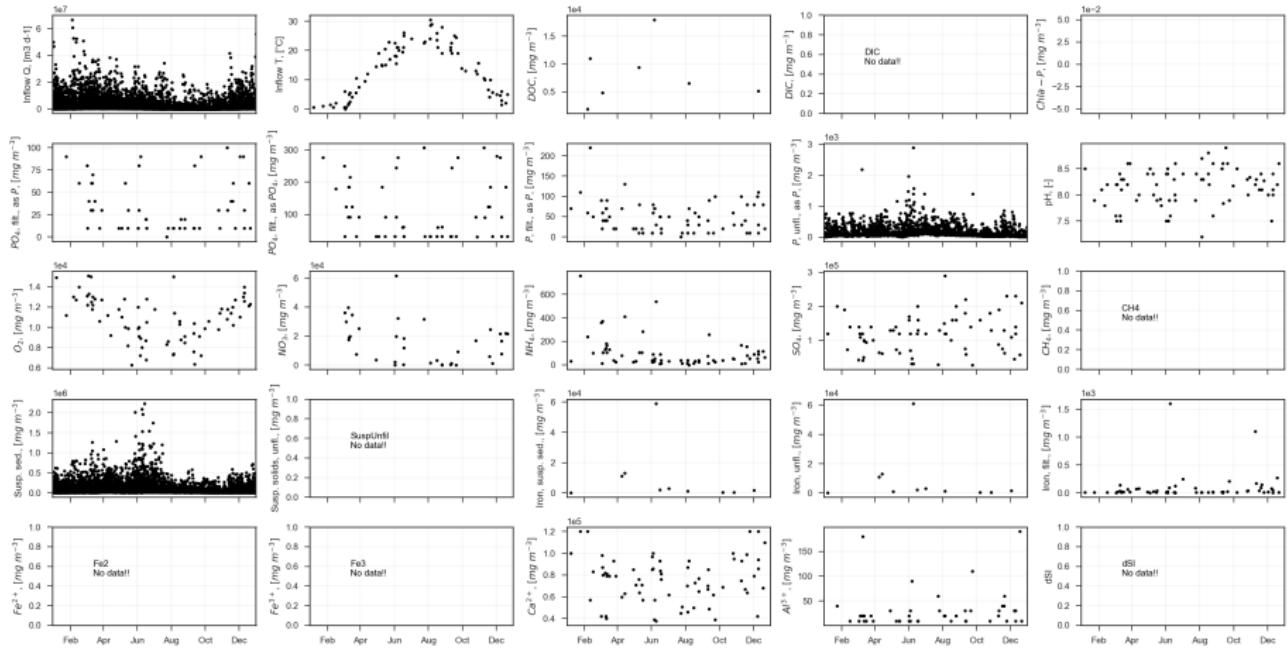
Central Basin: Rocky River

All years plot



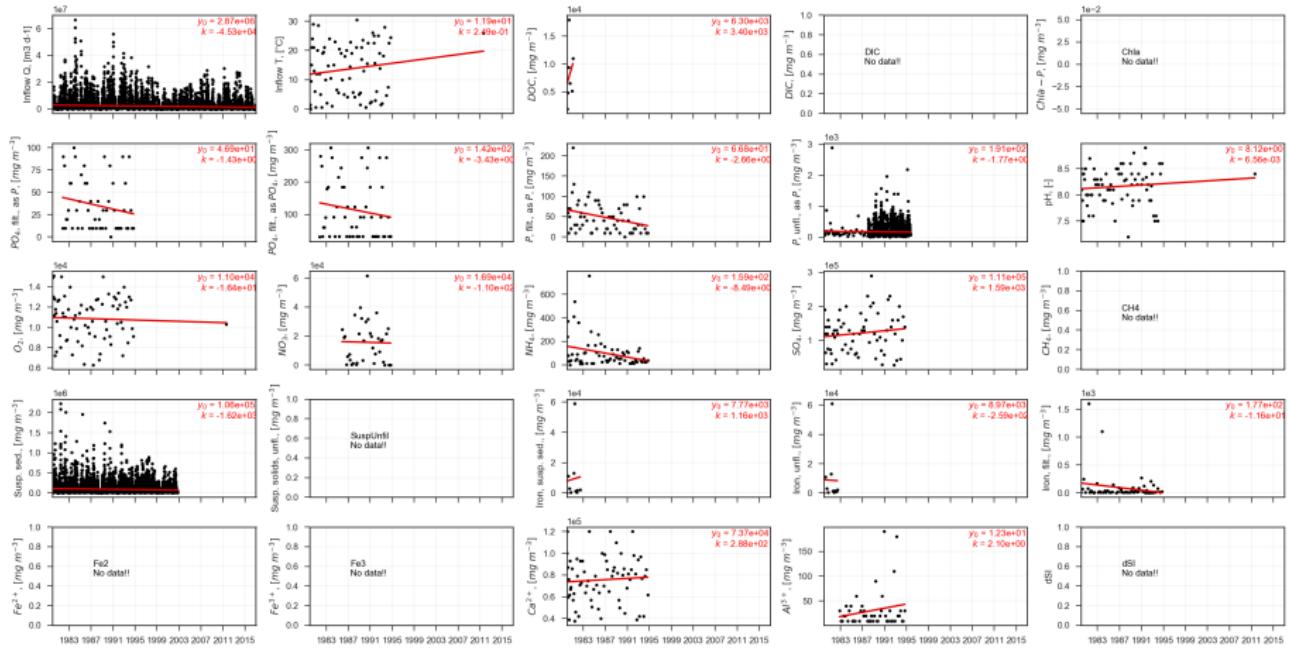
Central Basin: Sandusky River

One year plot



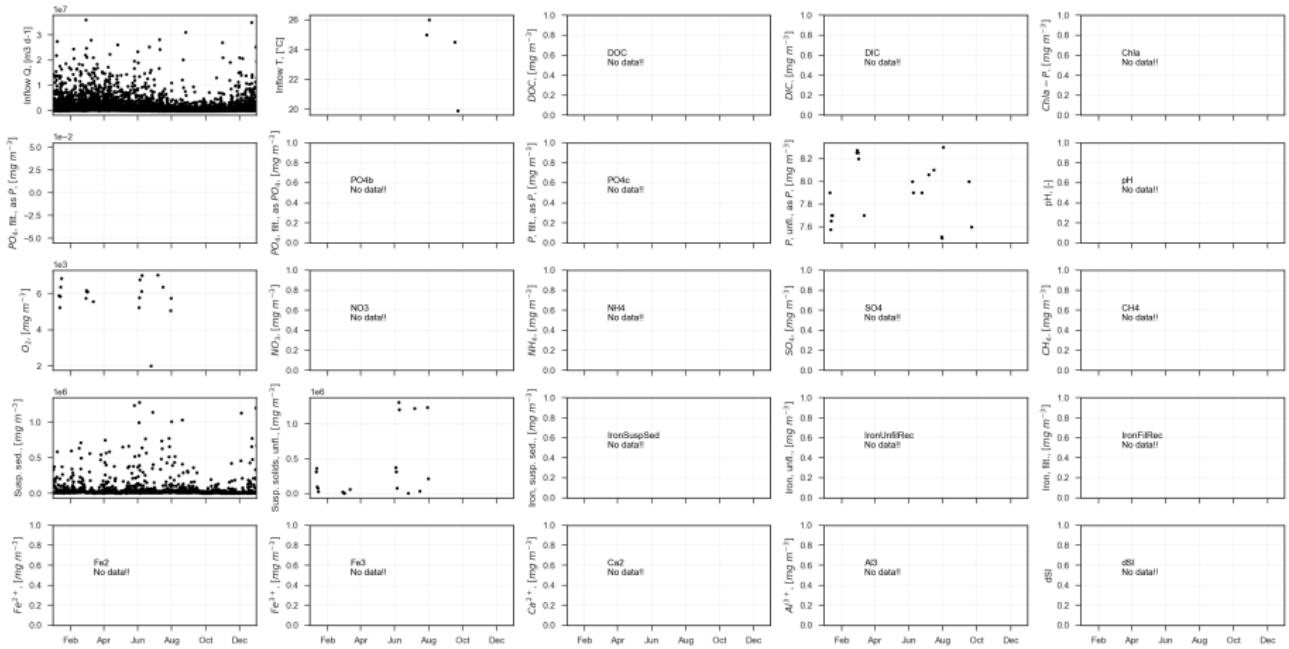
Central Basin: Sandusky River

All years plot



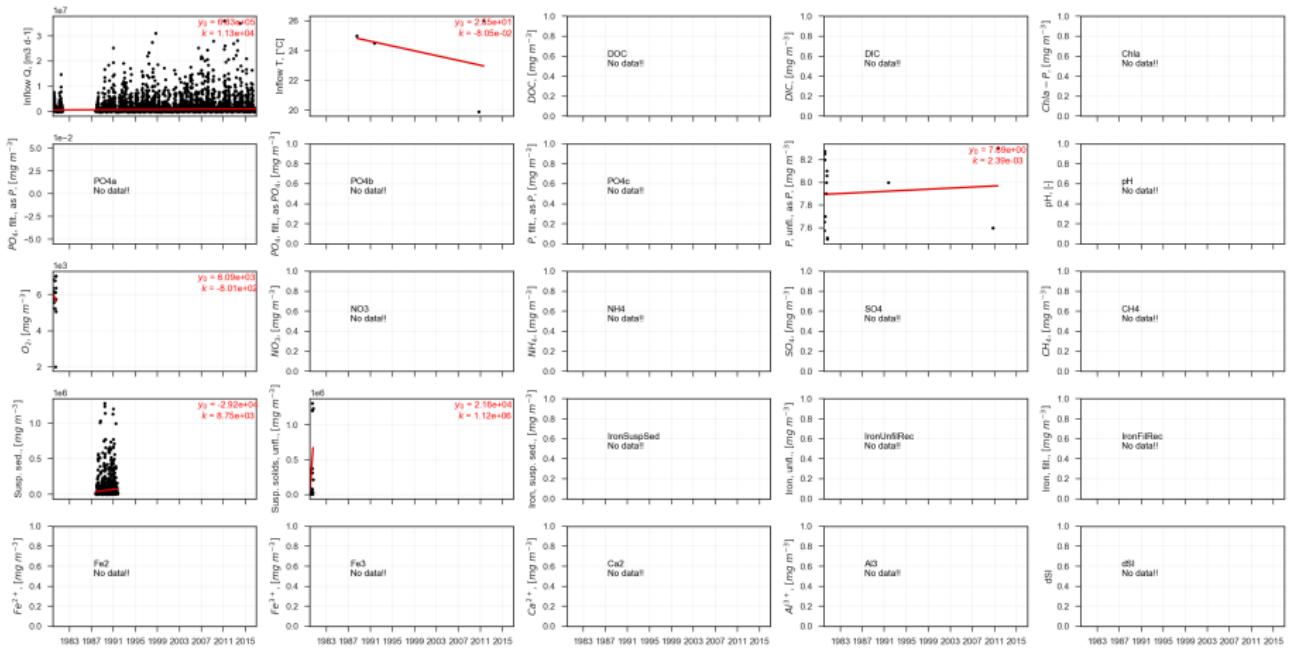
Central Basin: Southwesternhuron River

One year plot



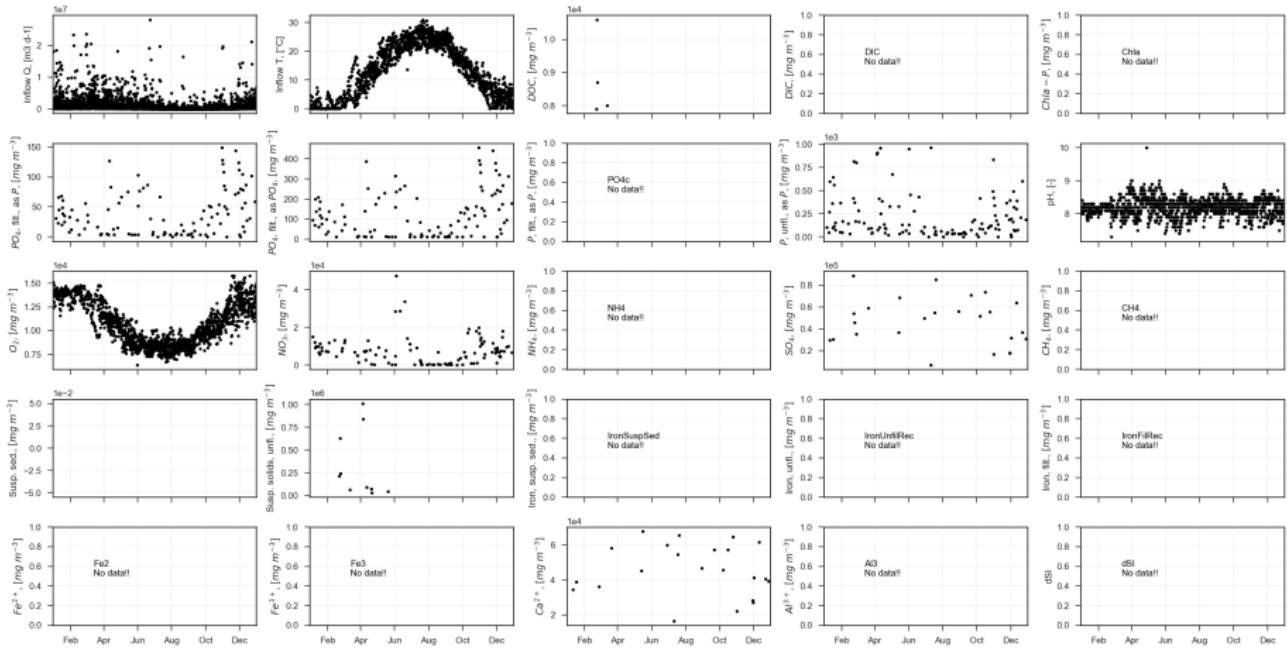
Central Basin: Southwesternhuron River

All years plot



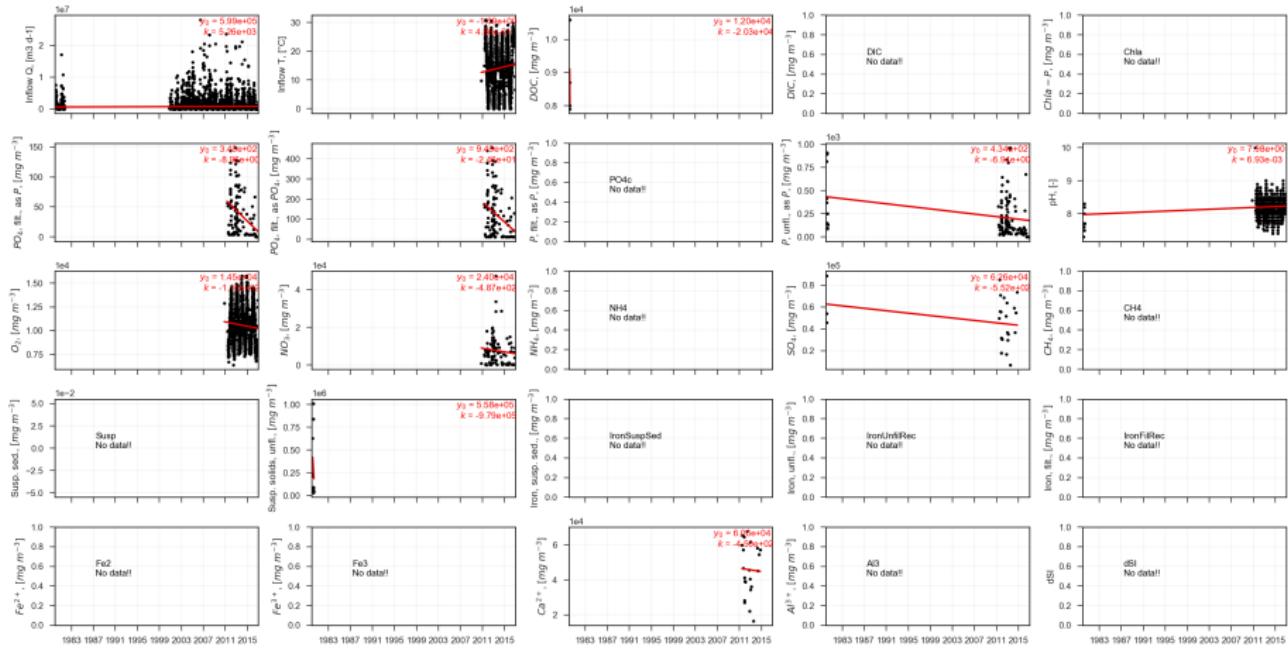
Central Basin: Vermillion river

One year plot



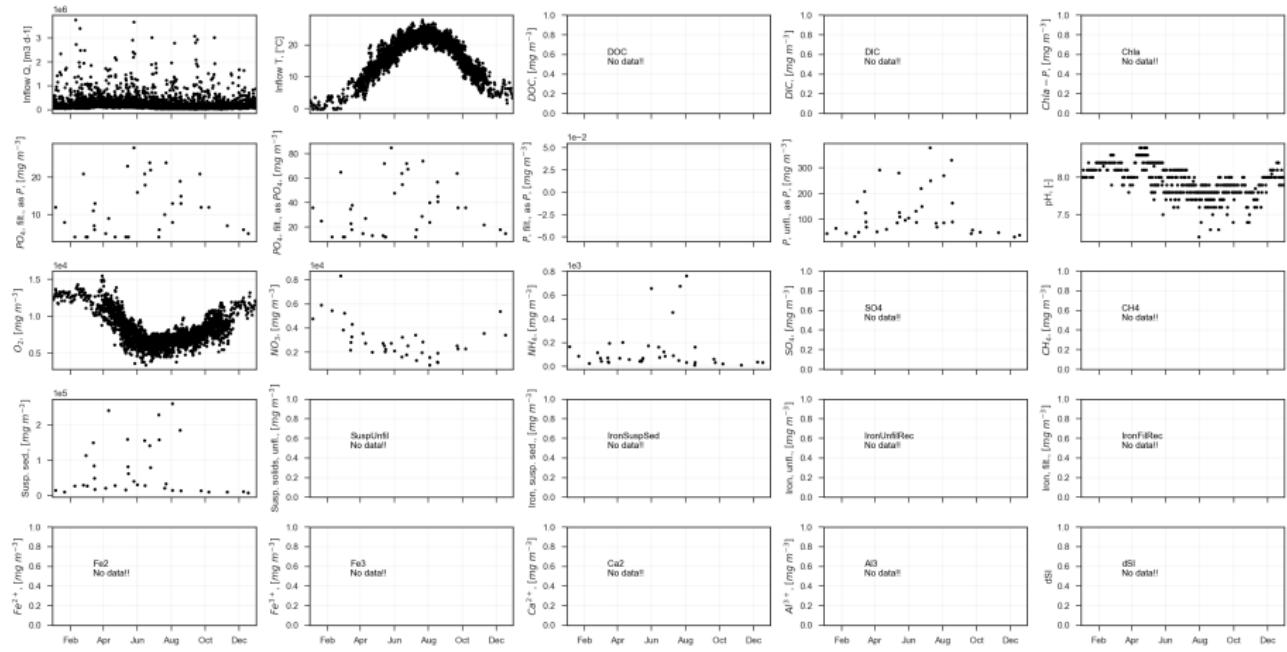
Central Basin: Vermillion river

All years plot



Western Basin: Detroit River

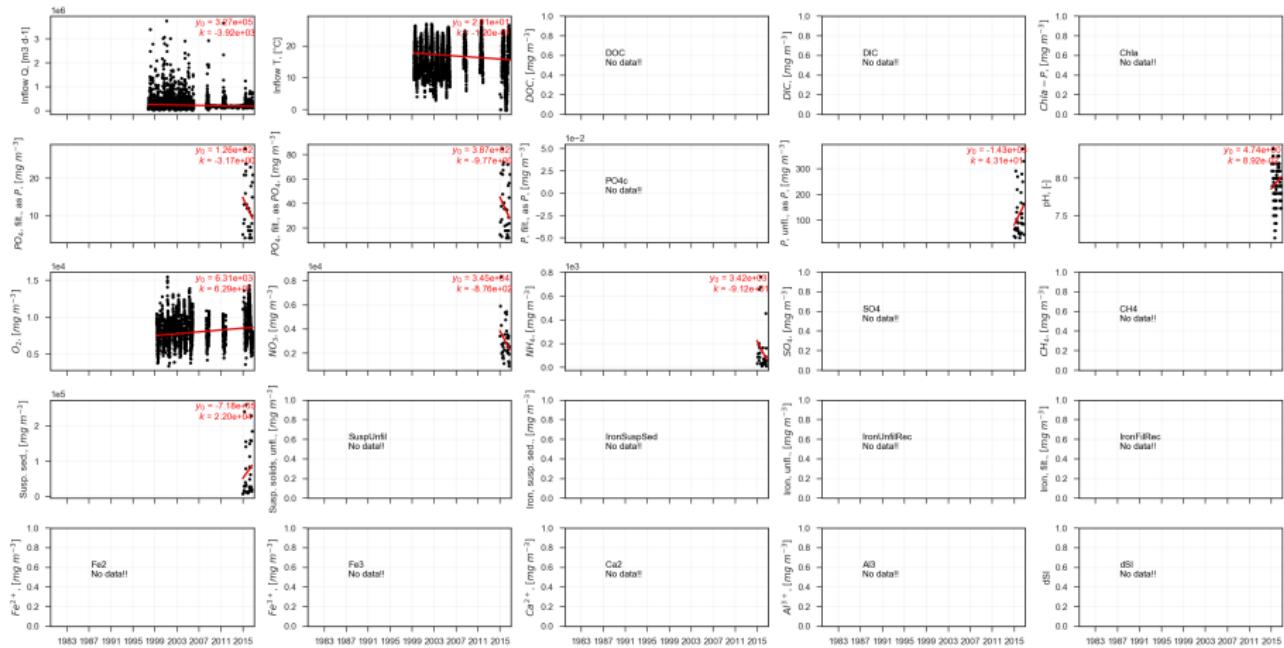
One year plot



Western basin

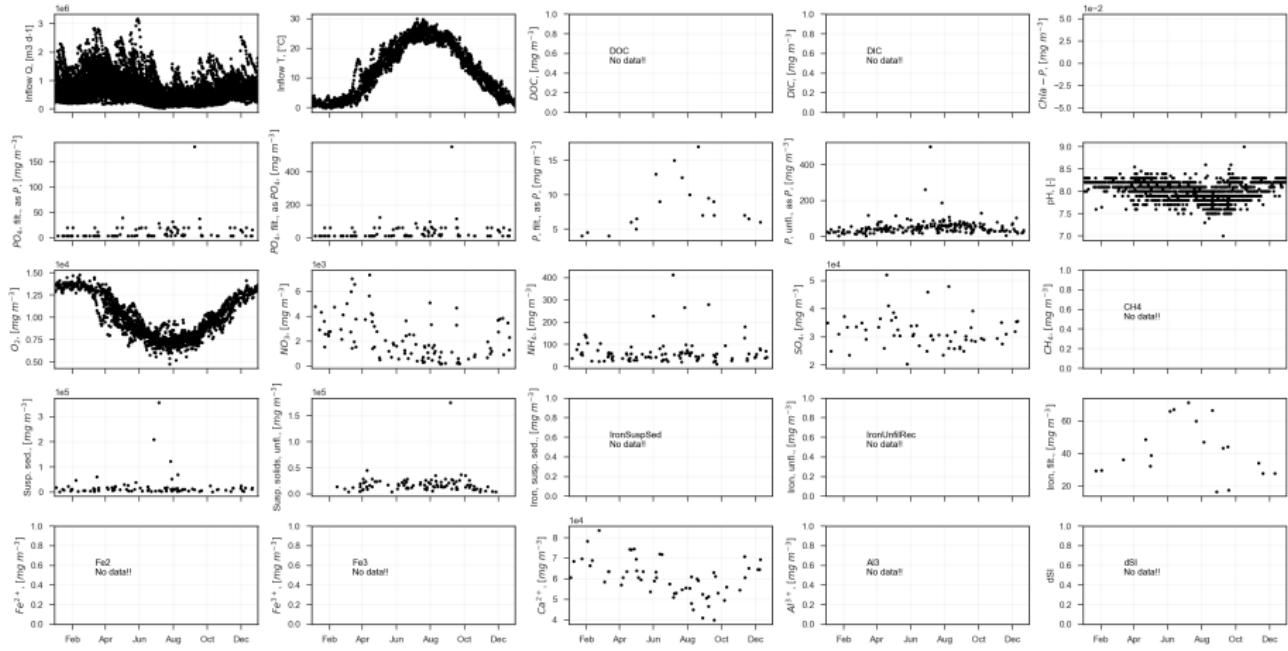
Western Basin: Detroit River

All years plot

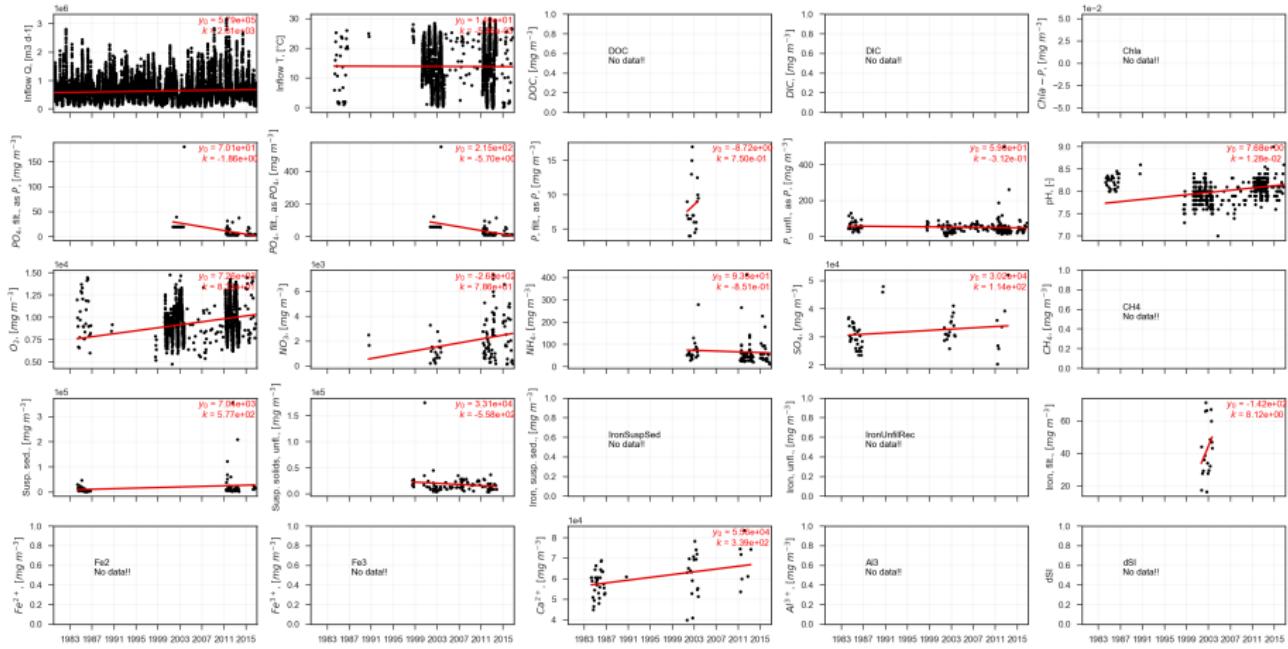


Western Basin: Huron River

One year plot

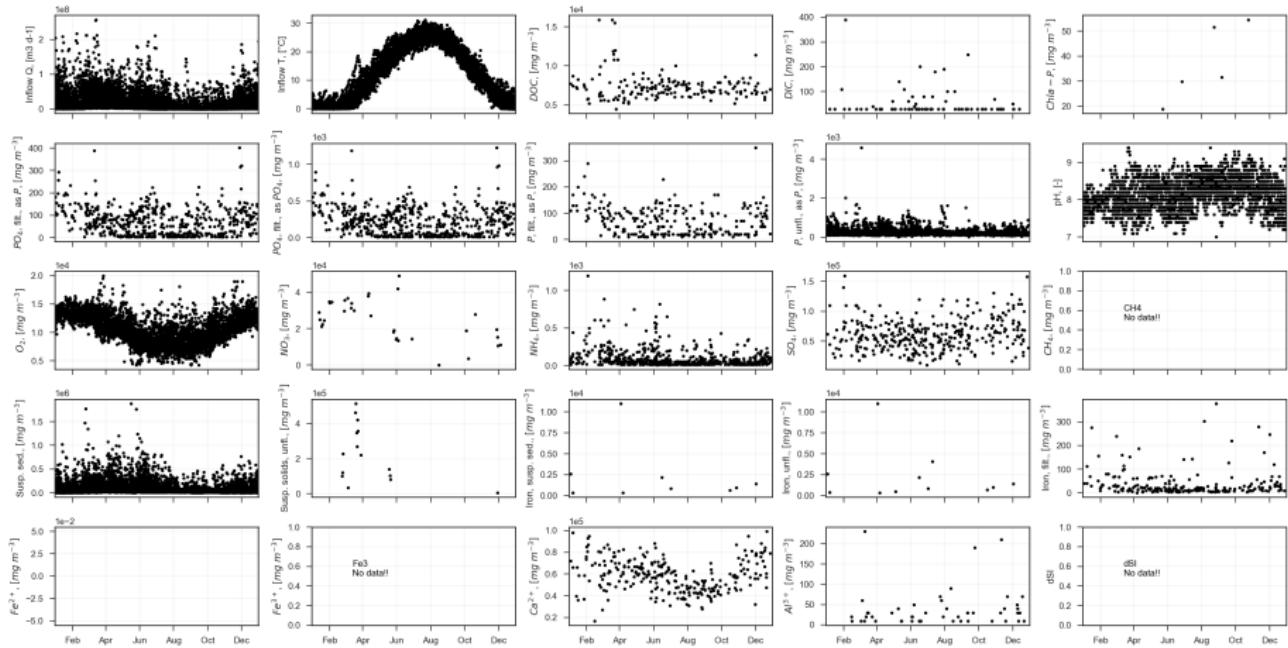


Western Basin: Huron River All years plot

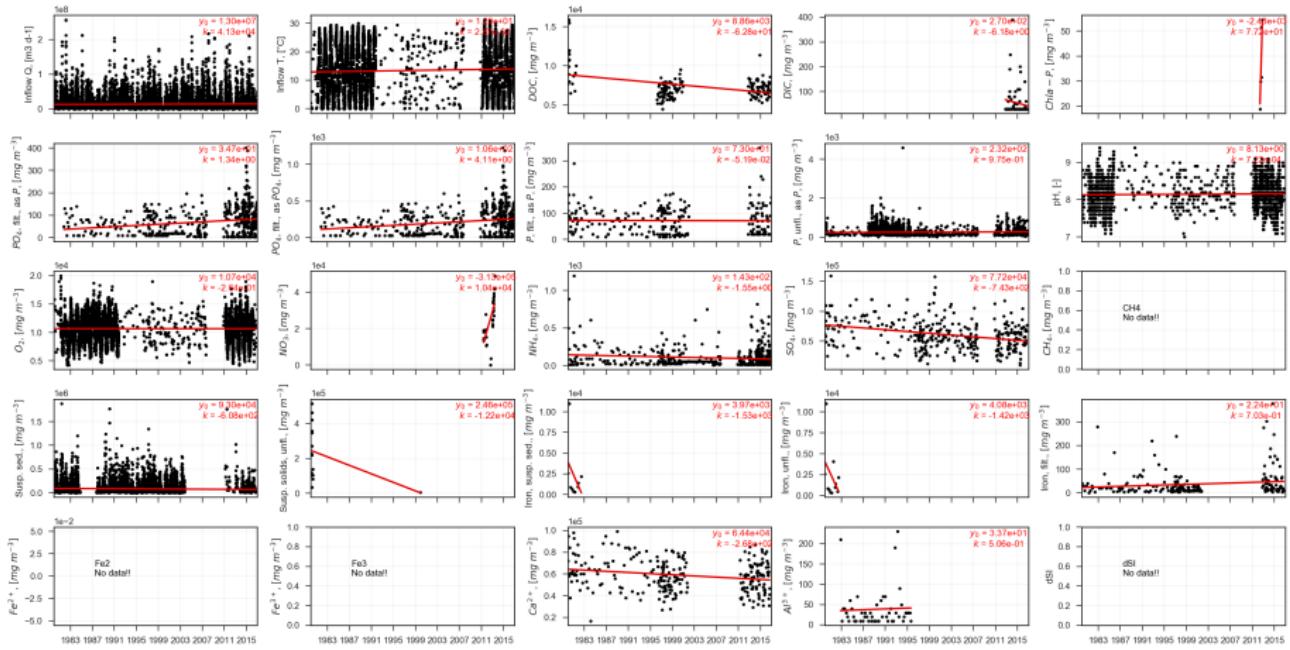


Western Basin: Maumee River

One year plot

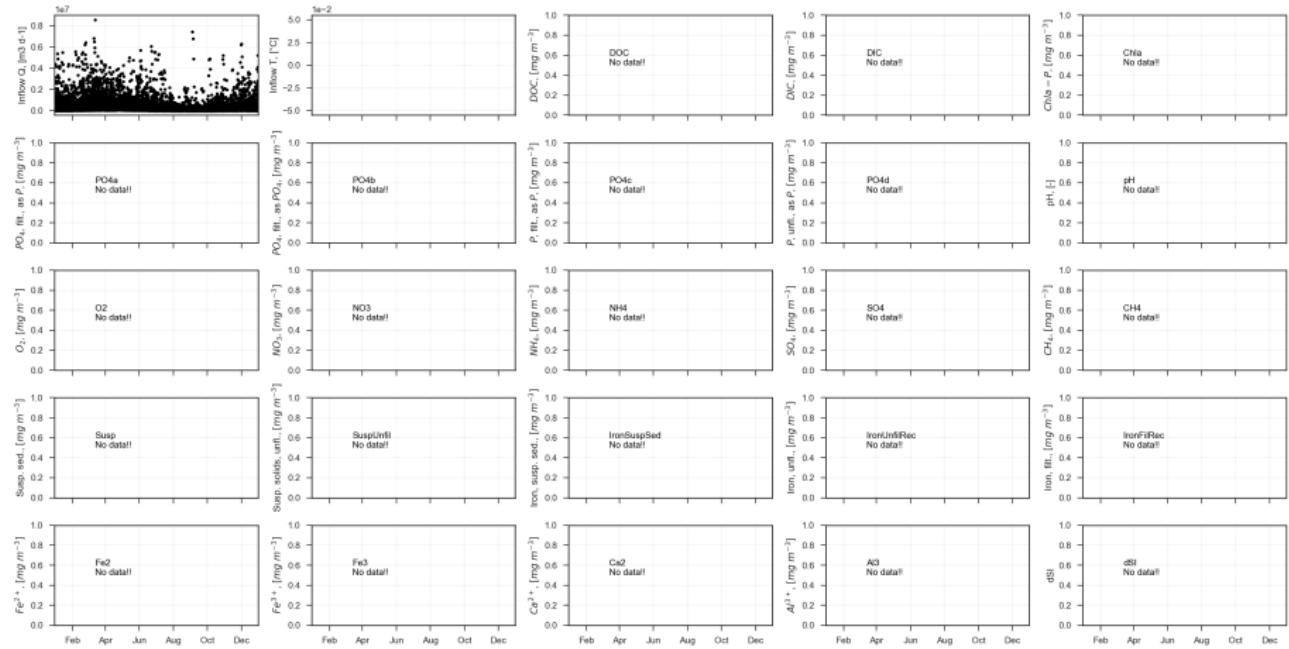


Western Basin: Maumee River All years plot



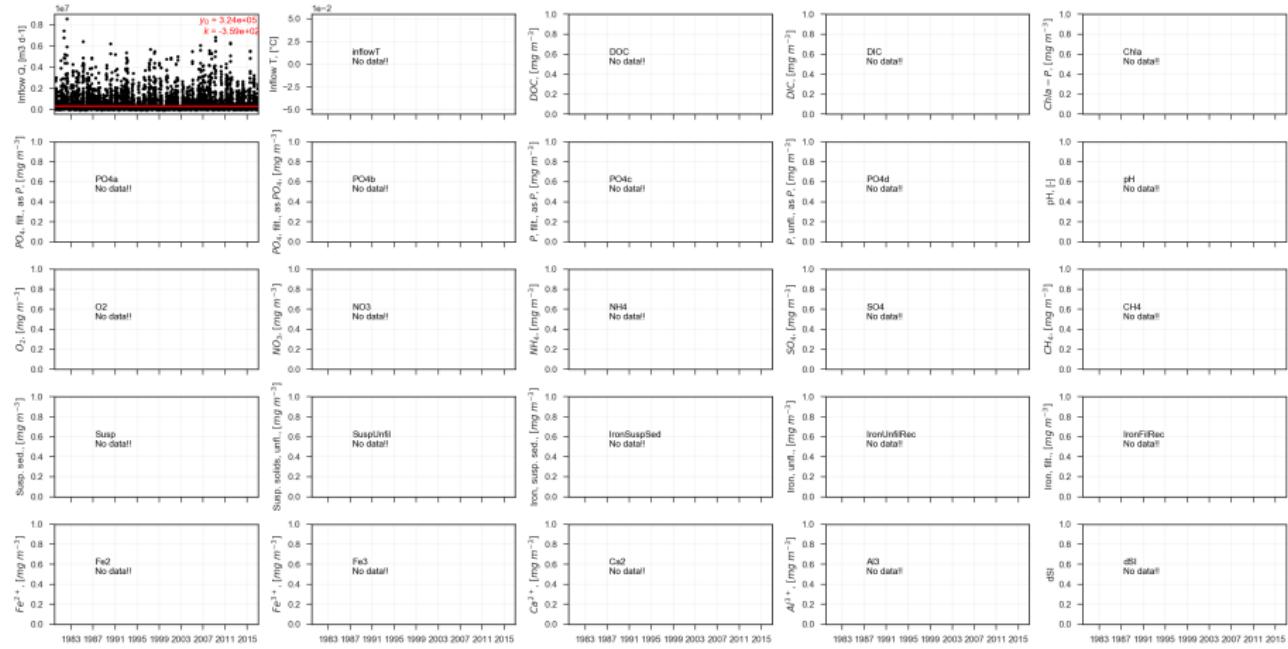
Western Basin: Ottawa River

One year plot



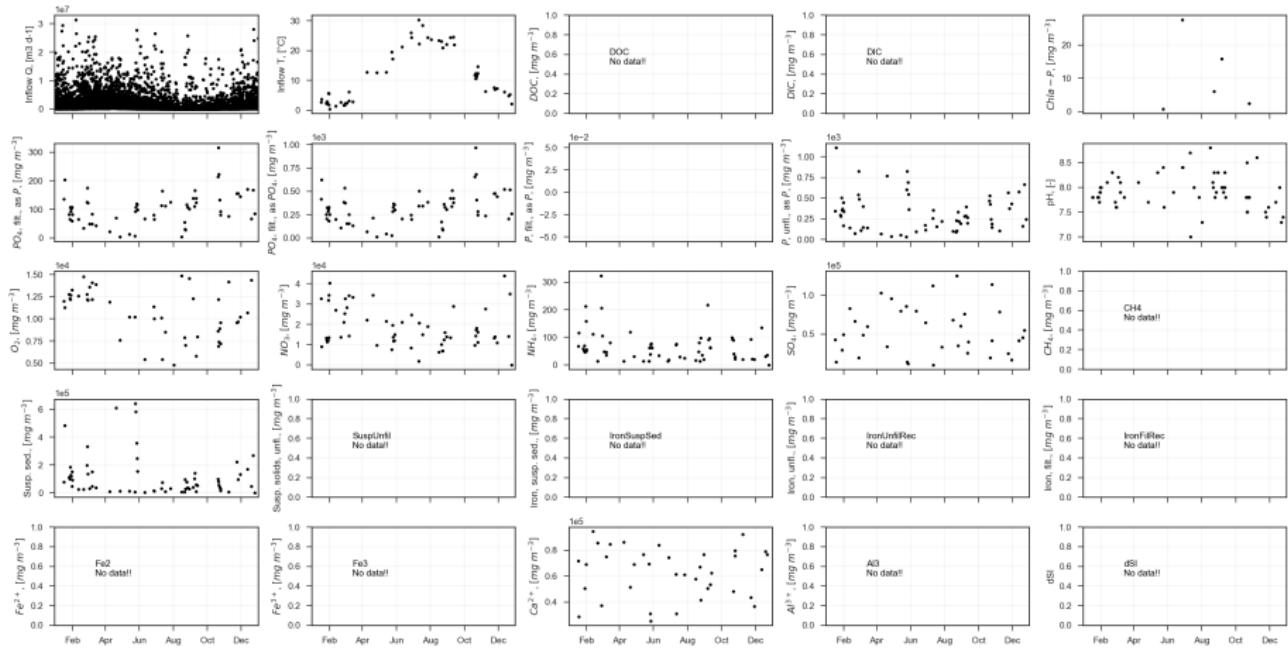
Western Basin: Ottawa River

All years plot



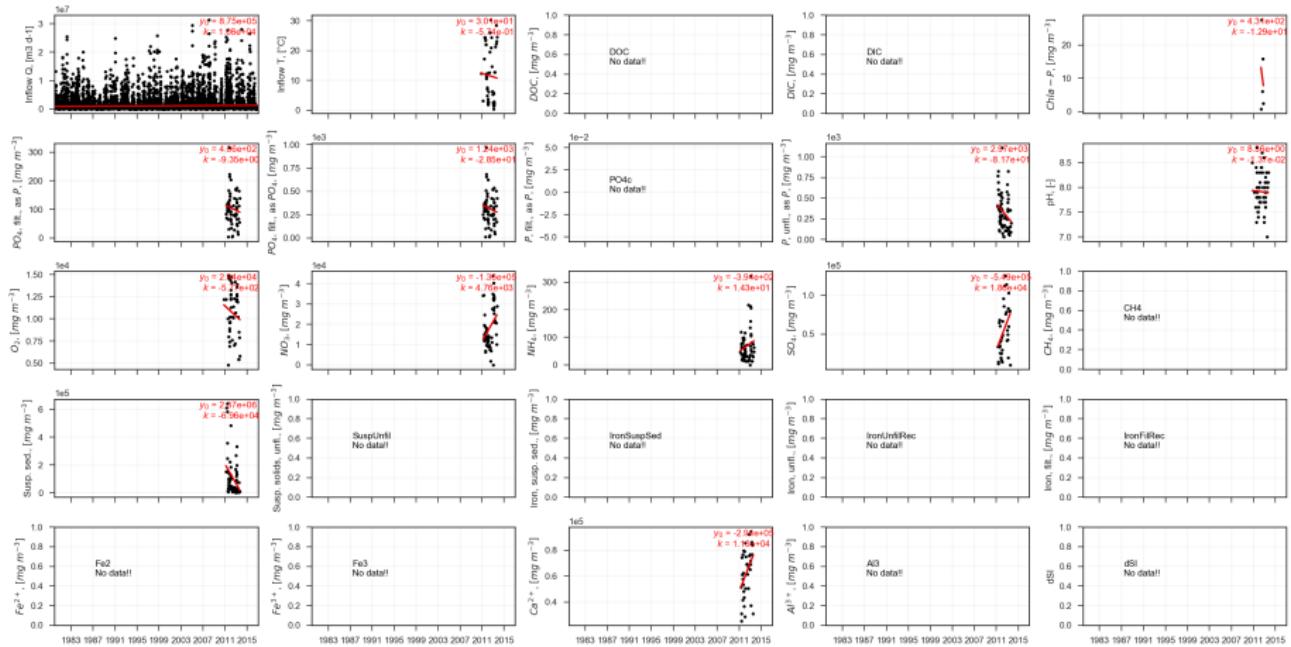
Western Basin: Portage River

One year plot



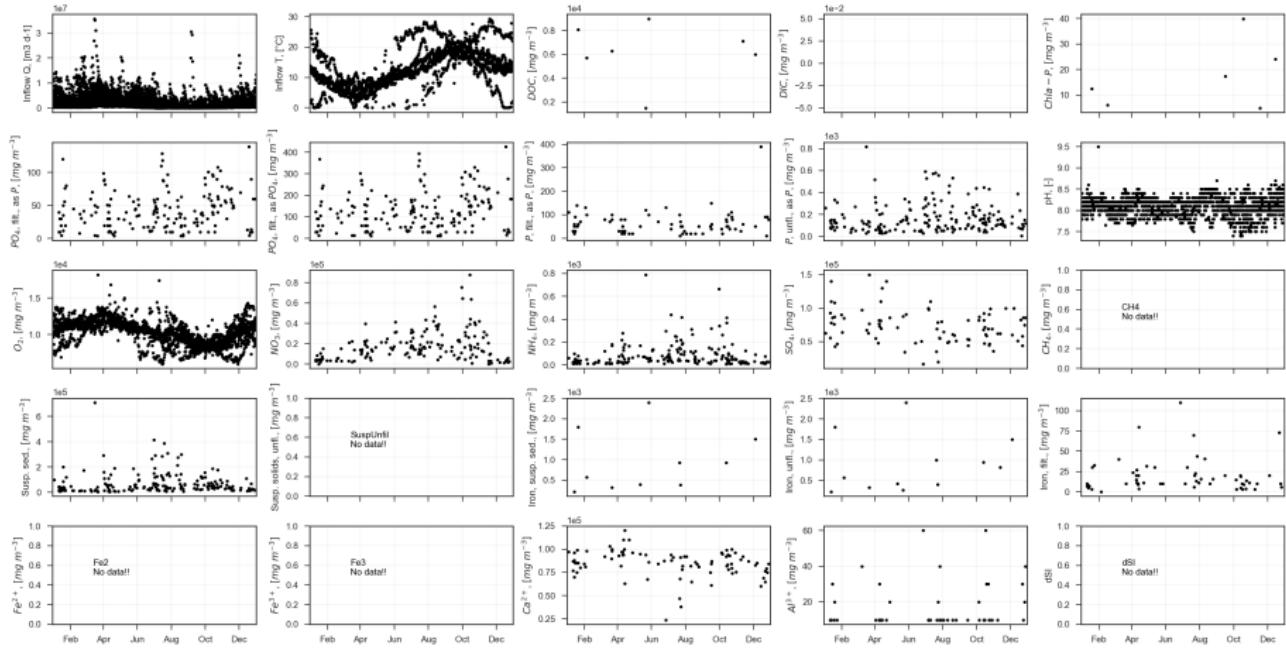
Western Basin: Portage River

All years plot

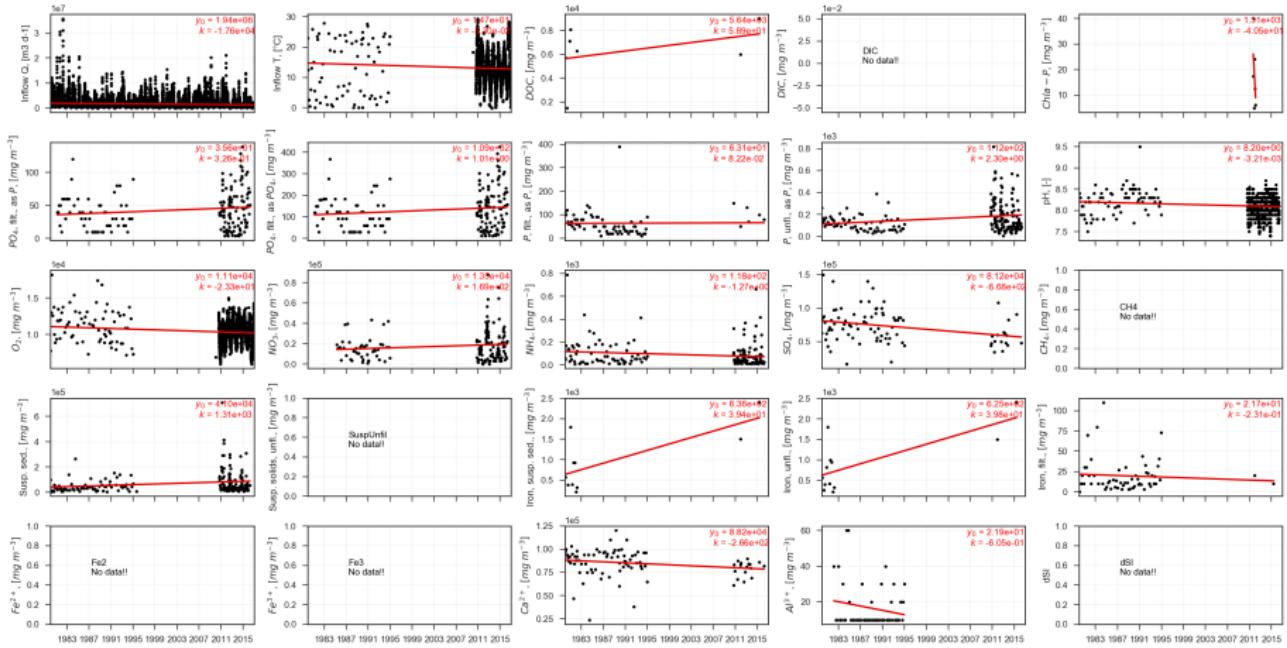


Western Basin: Riverraisin river

One year plot

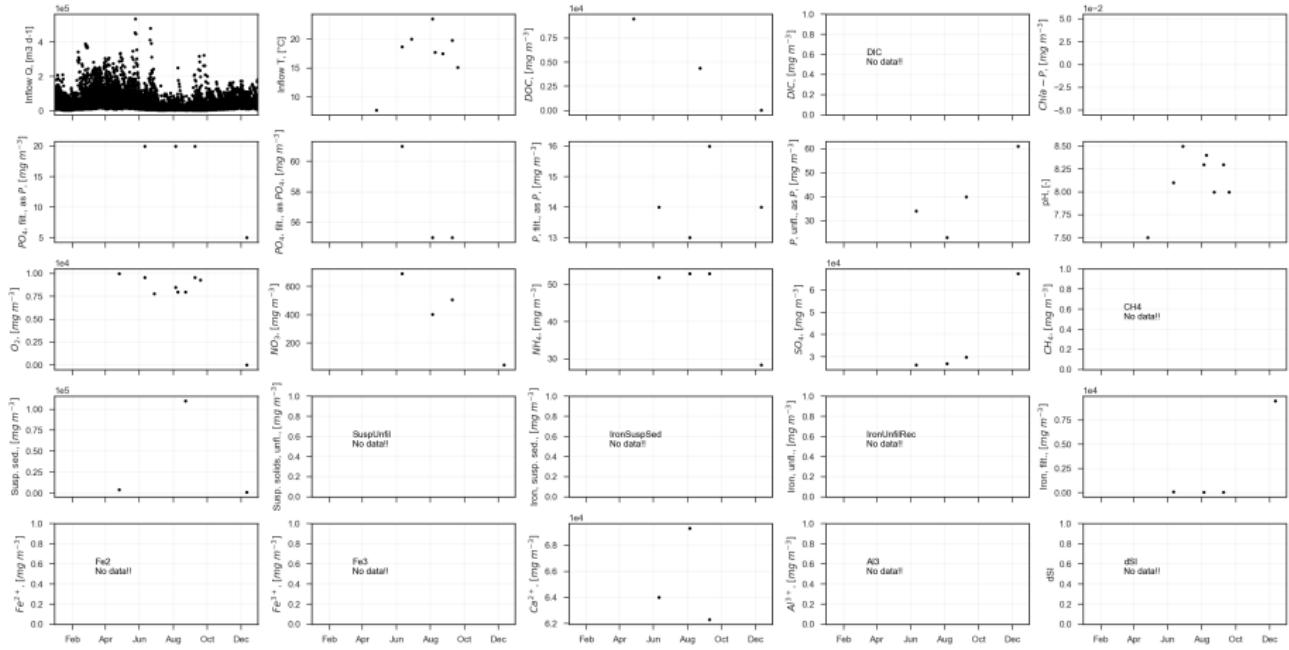


Western Basin: Riverraisin river All years plot



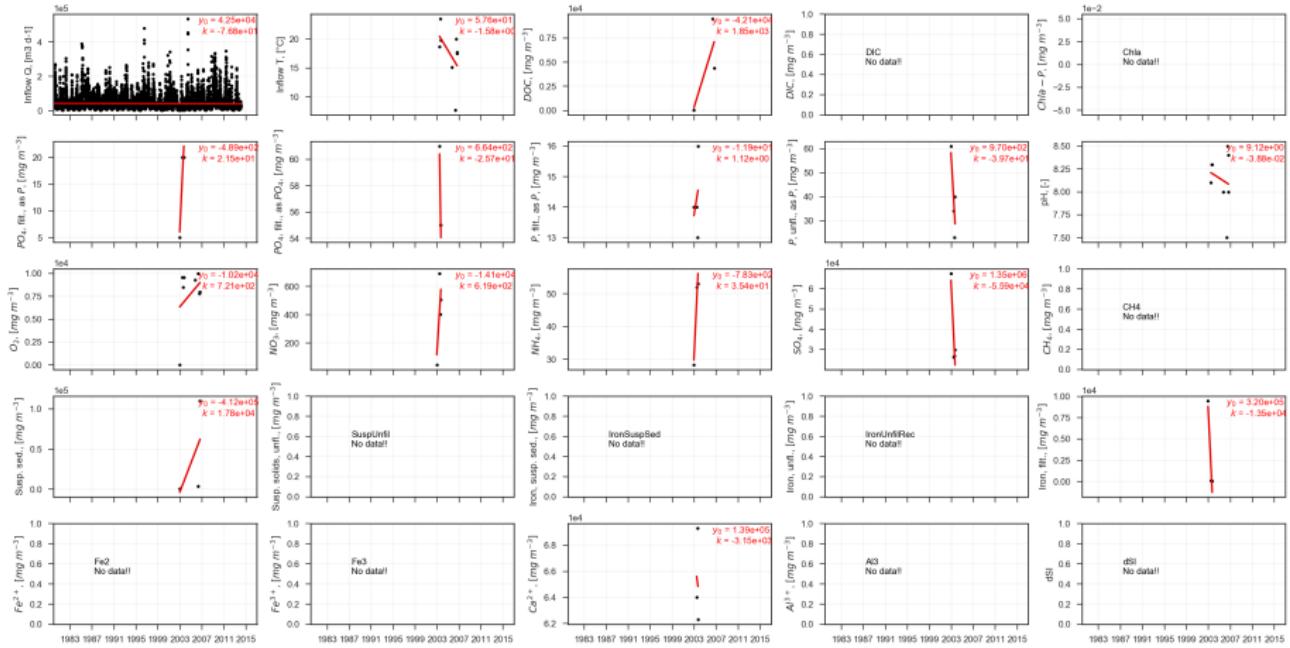
Western Basin: Stony Creek

One year plot



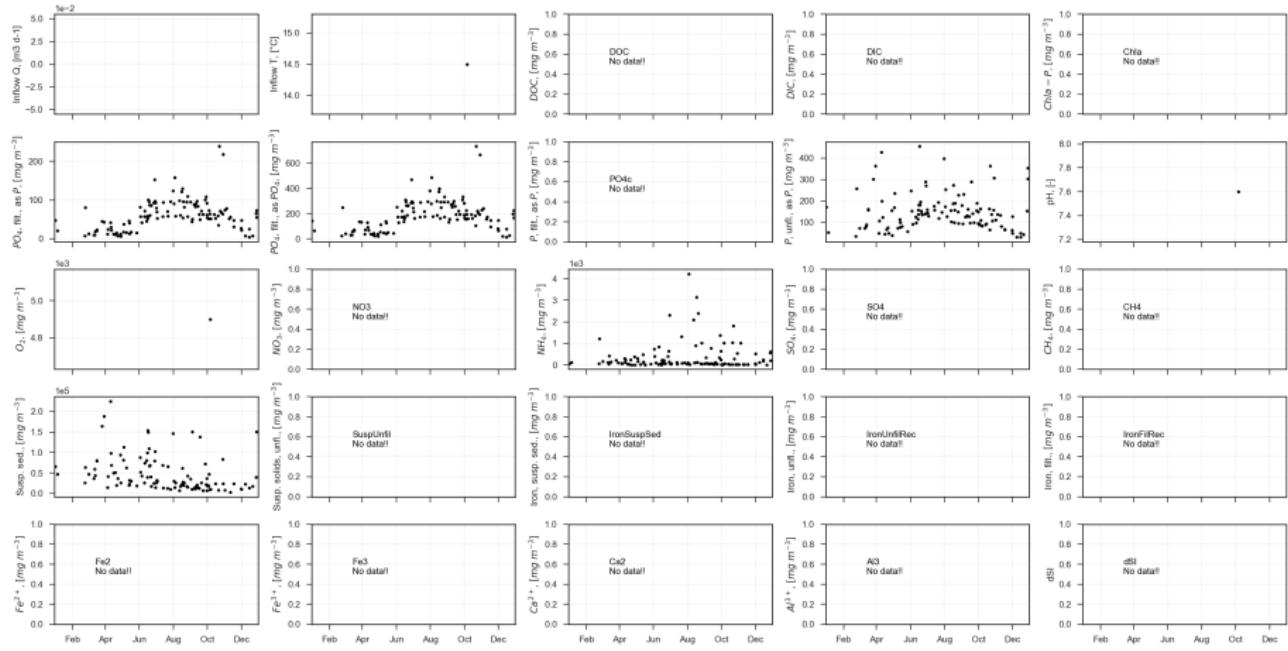
Western Basin: Stony Creek

All years plot



Western Basin: Swan Creek

One year plot



Western Basin: Swan Creek

All years plot

