

A satellite view of a city and a river. The city is densely packed with buildings and roads, situated on a brownish, arid landscape. A wide river flows through the city, with several smaller channels branching off. In the foreground, the SWOT satellite is visible, featuring a large gold-colored antenna and several blue solar panels. The satellite is positioned in the upper right corner of the frame, looking down at the city and river below.

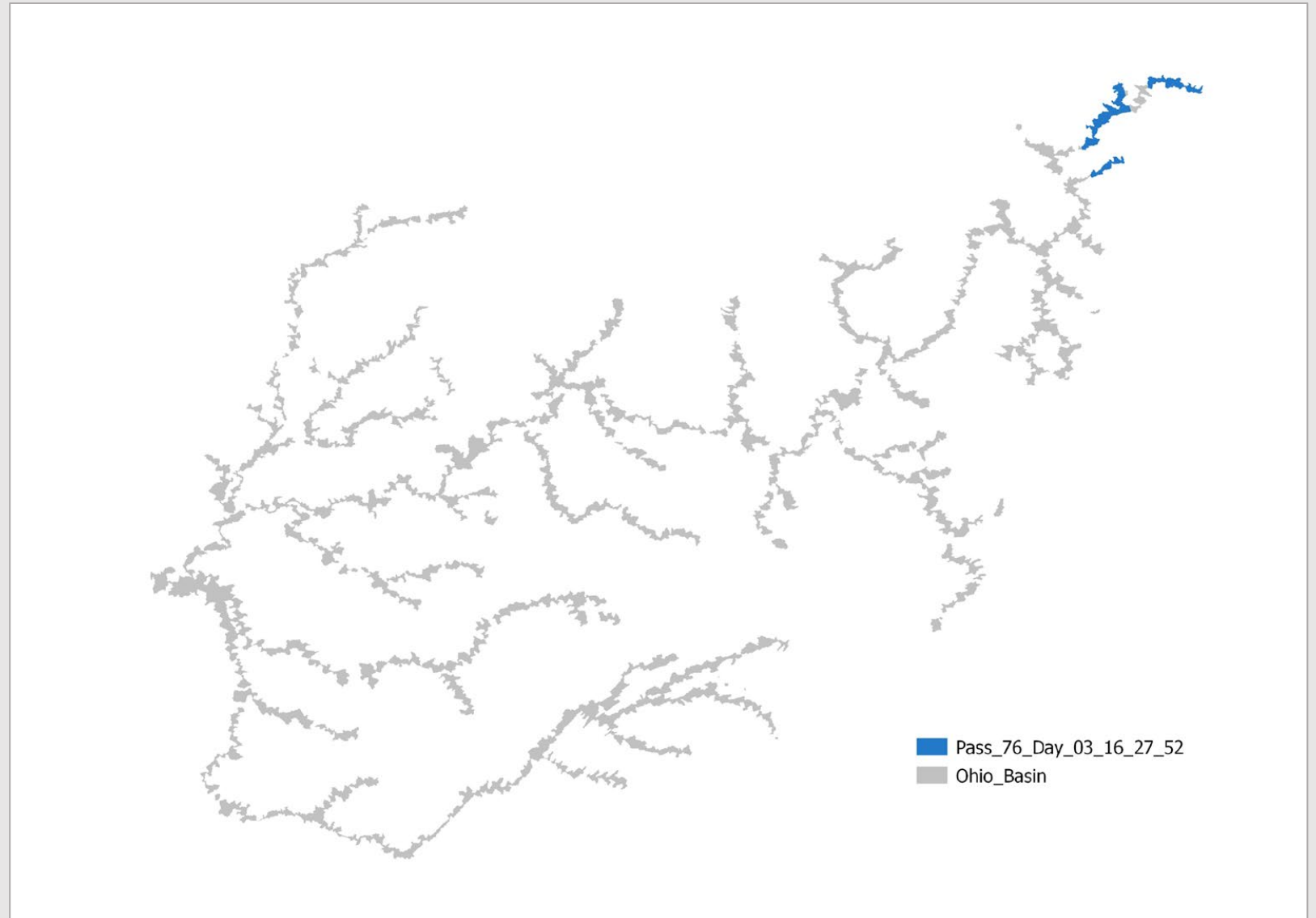
SWOT Discharge

Revealing the Spatial Patterns

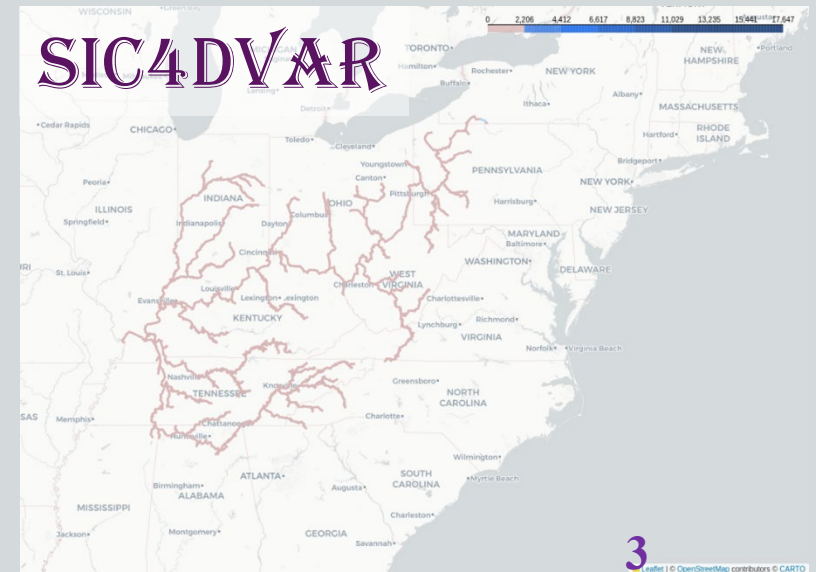
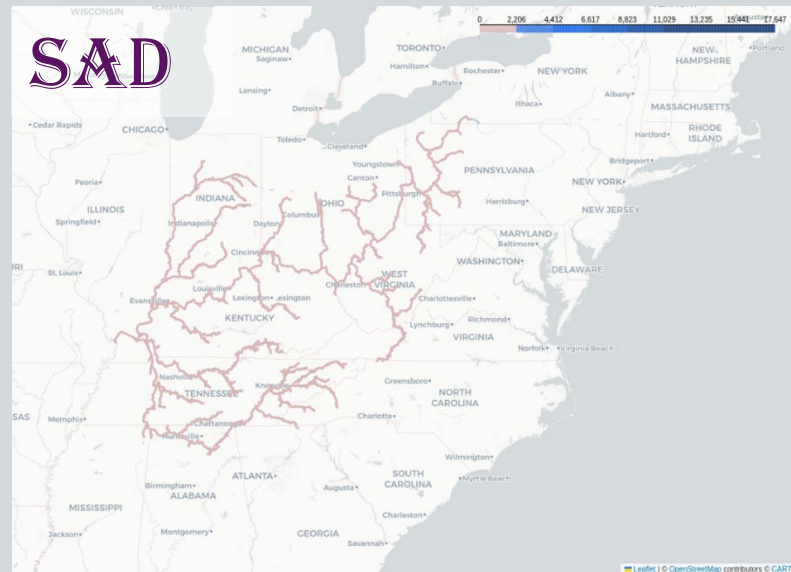
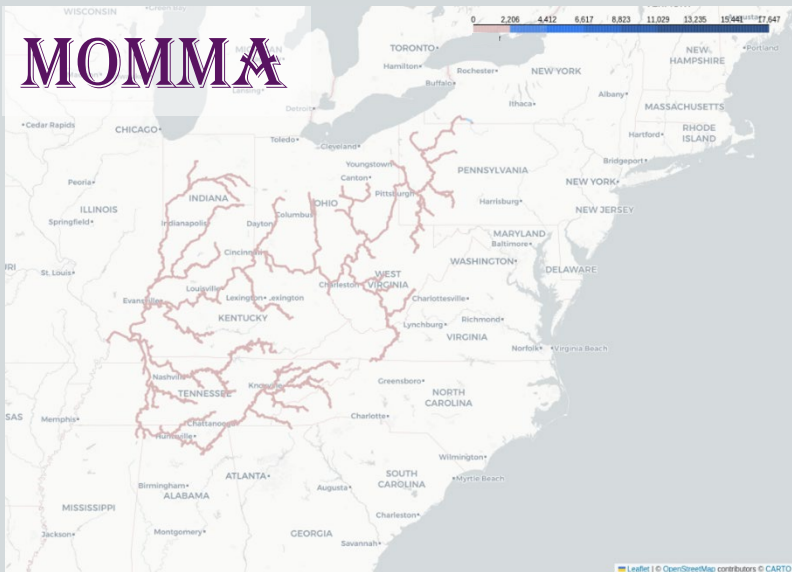
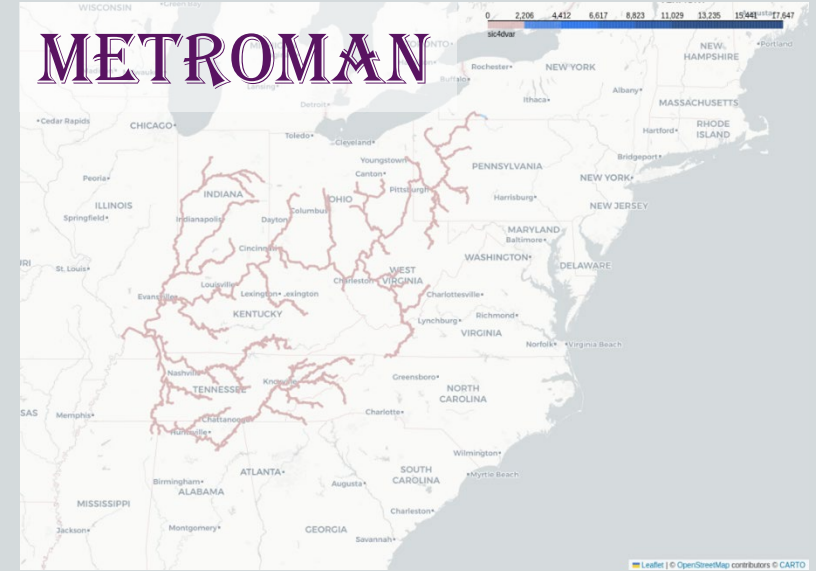
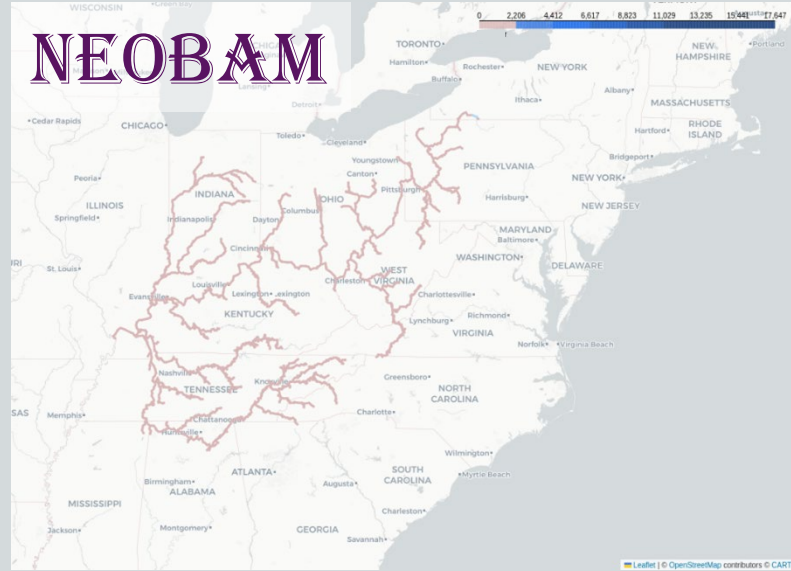
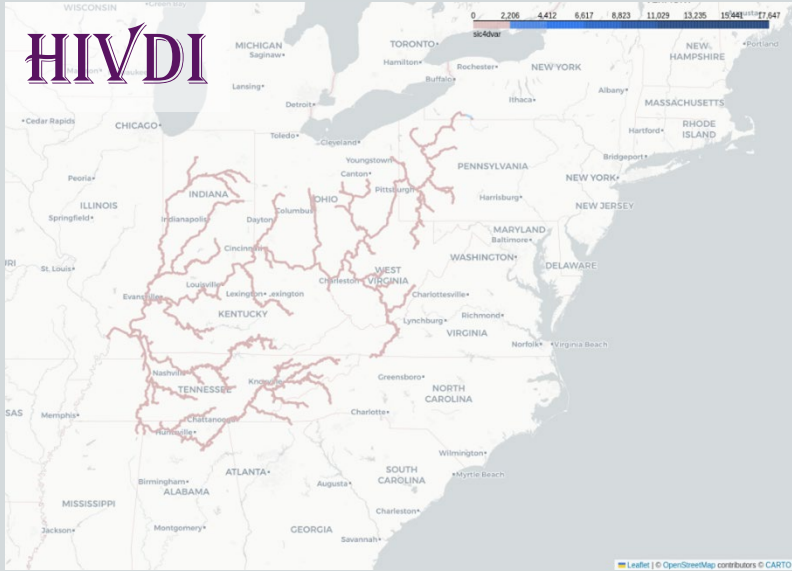
Hind, on behalf of the DAWG

Discharge in time ... and space

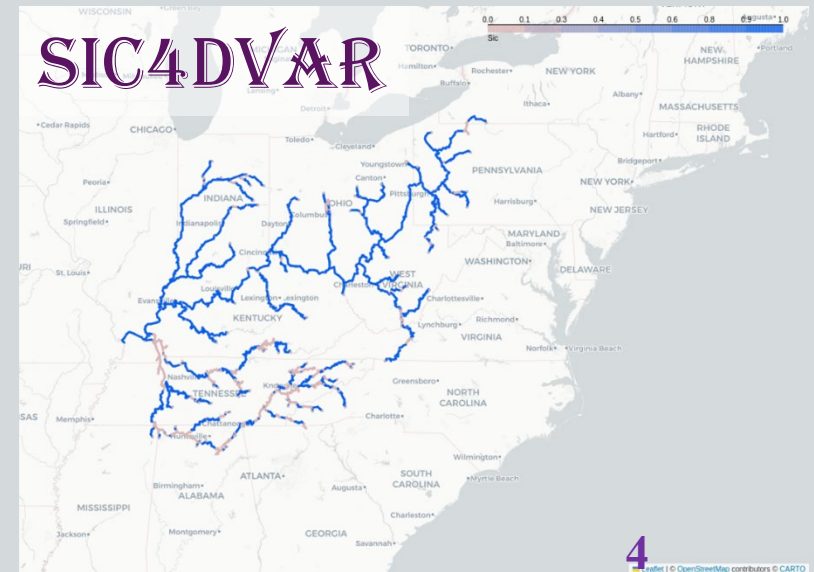
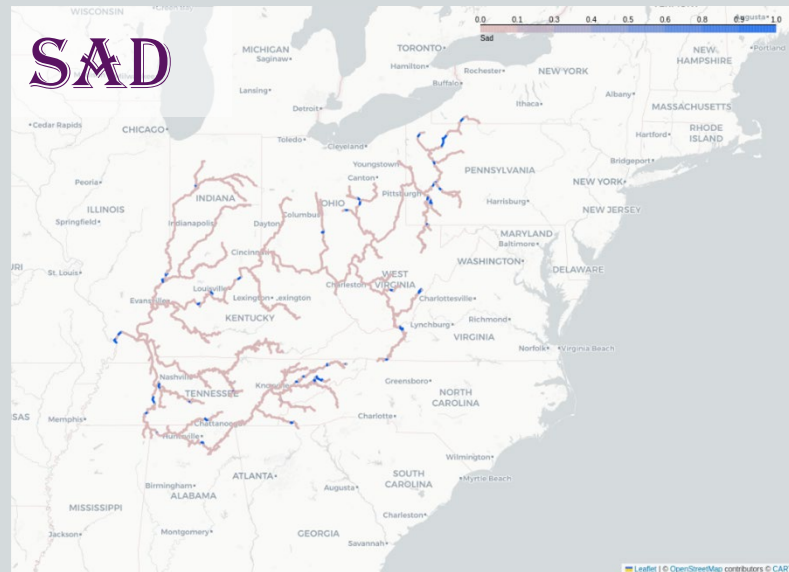
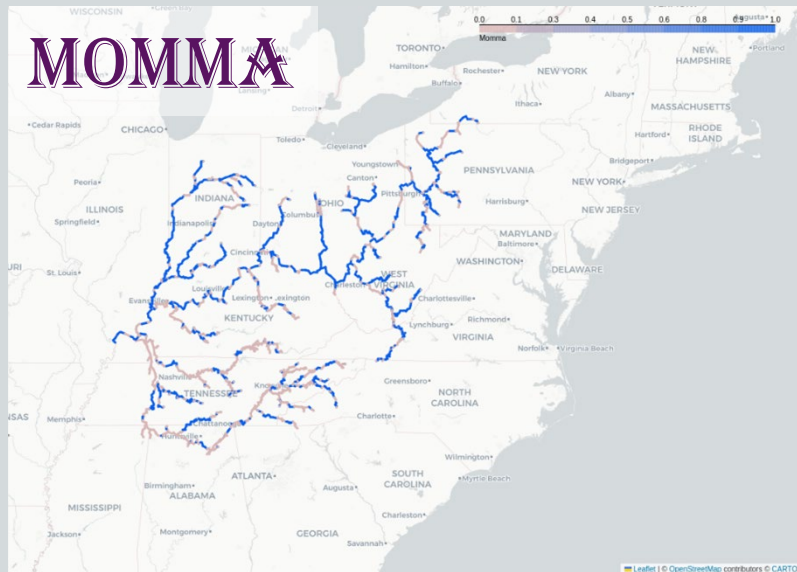
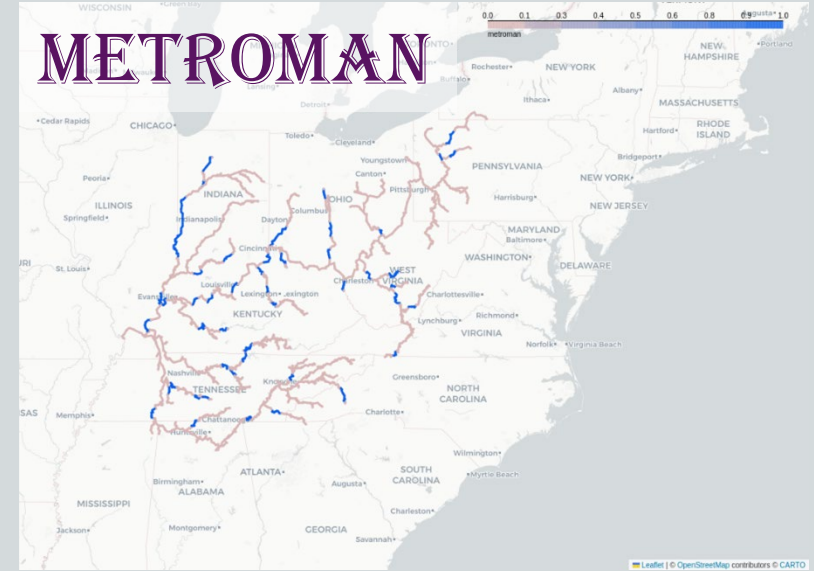
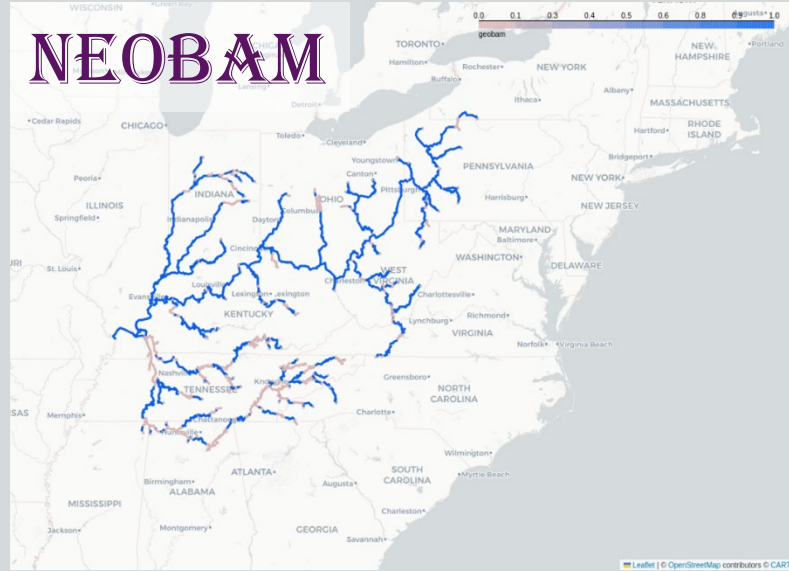
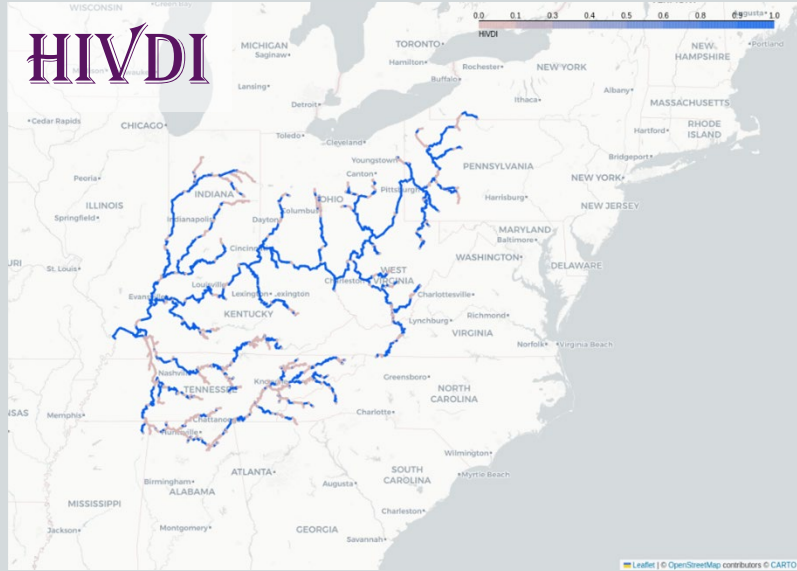
SWOT Nominal Orbit over
The Ohio Basin



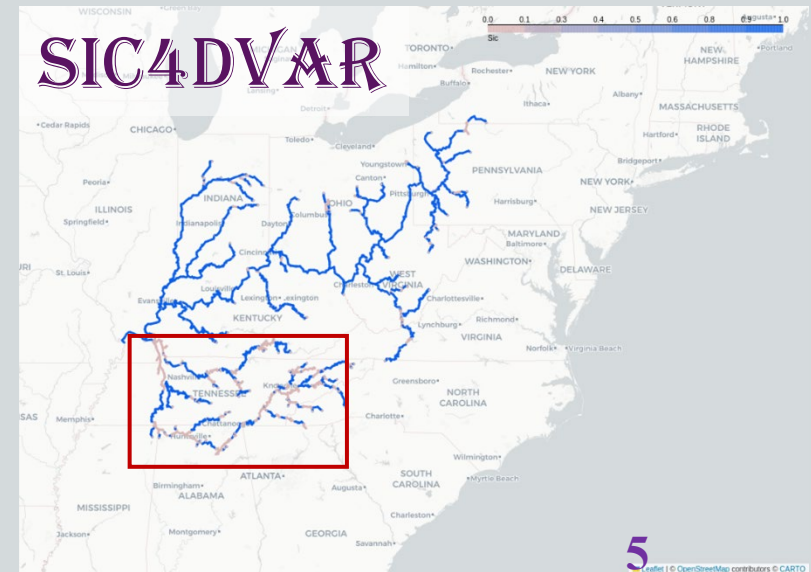
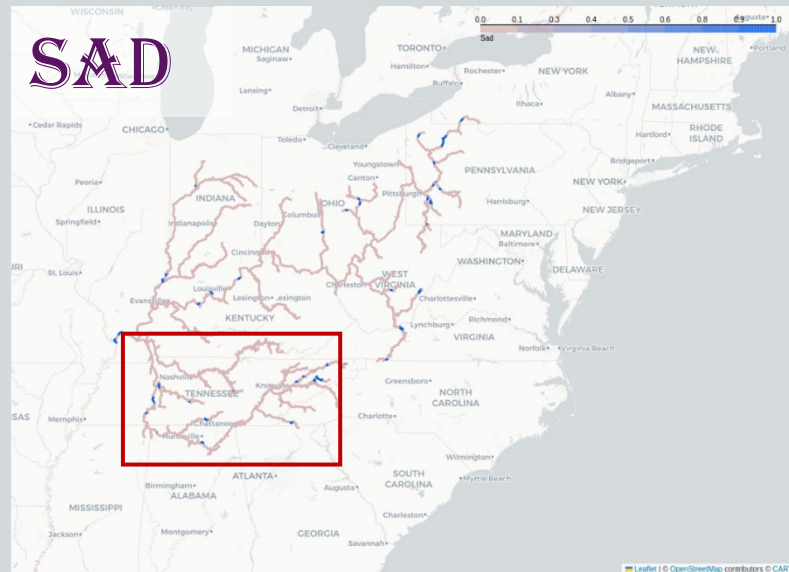
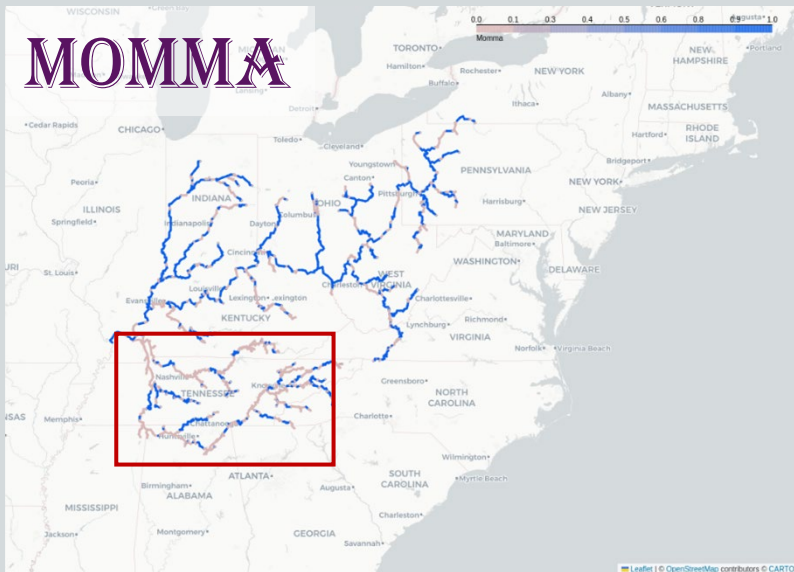
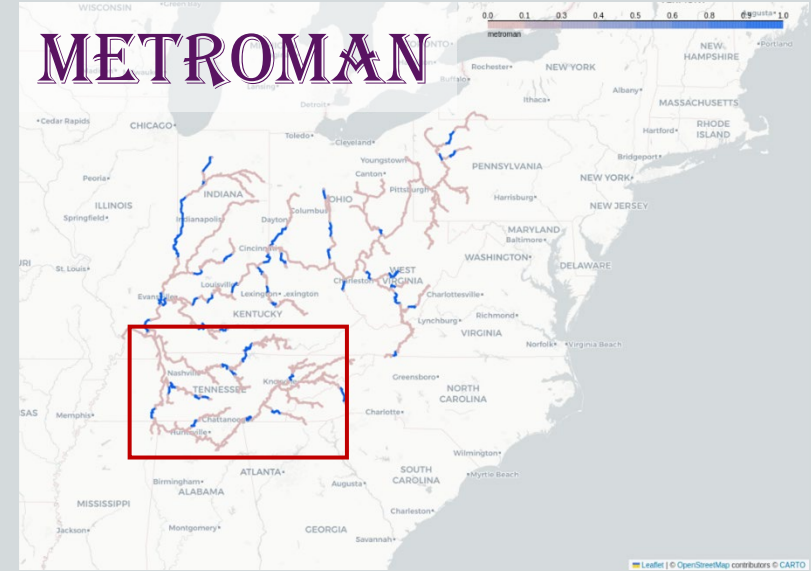
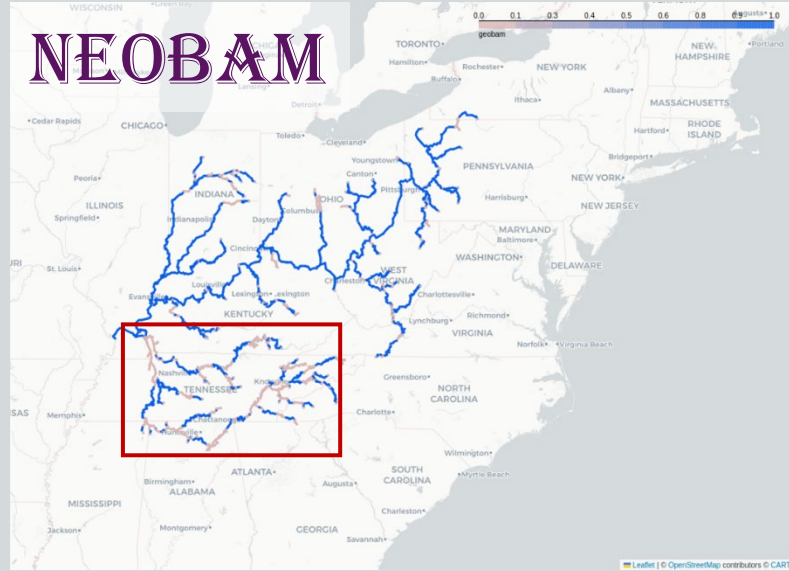
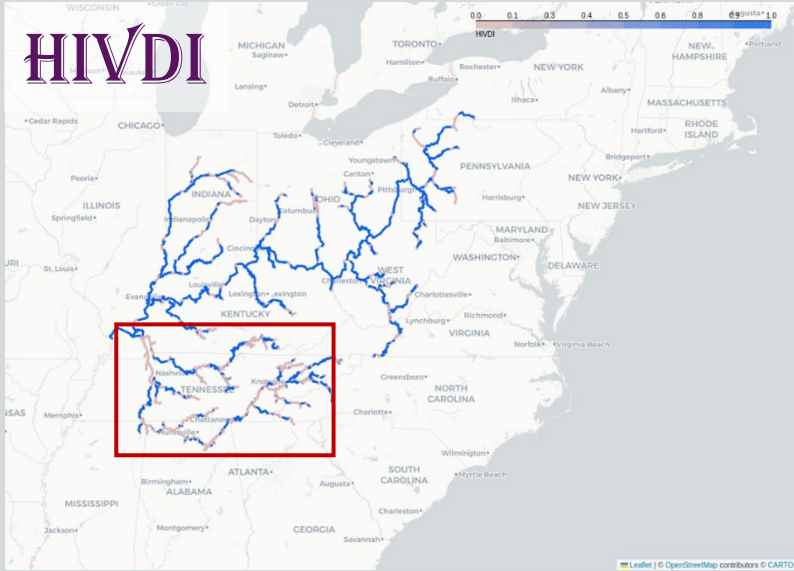
The Ohio Basin



The Ohio Basin

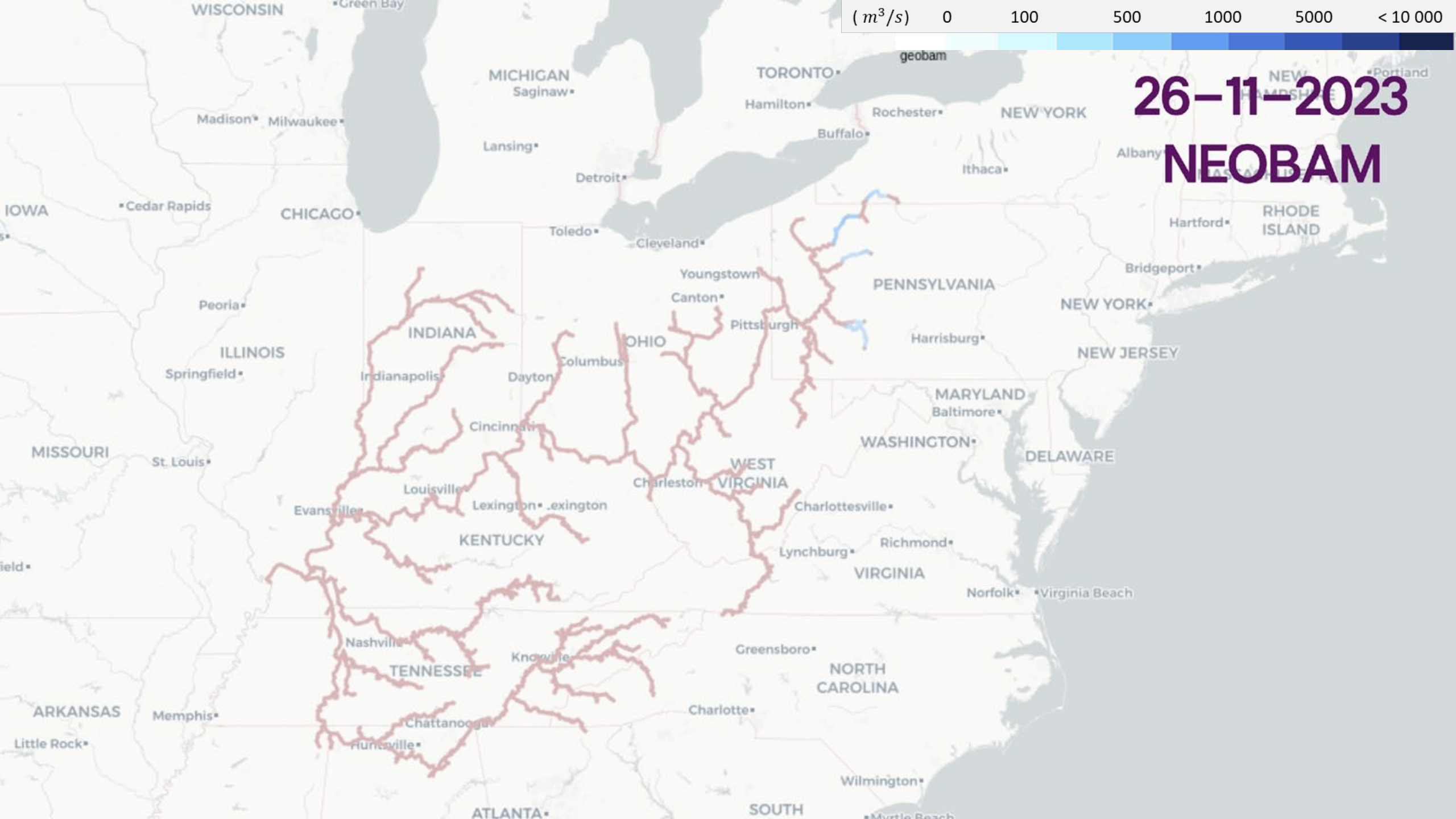


The Ohio Basin

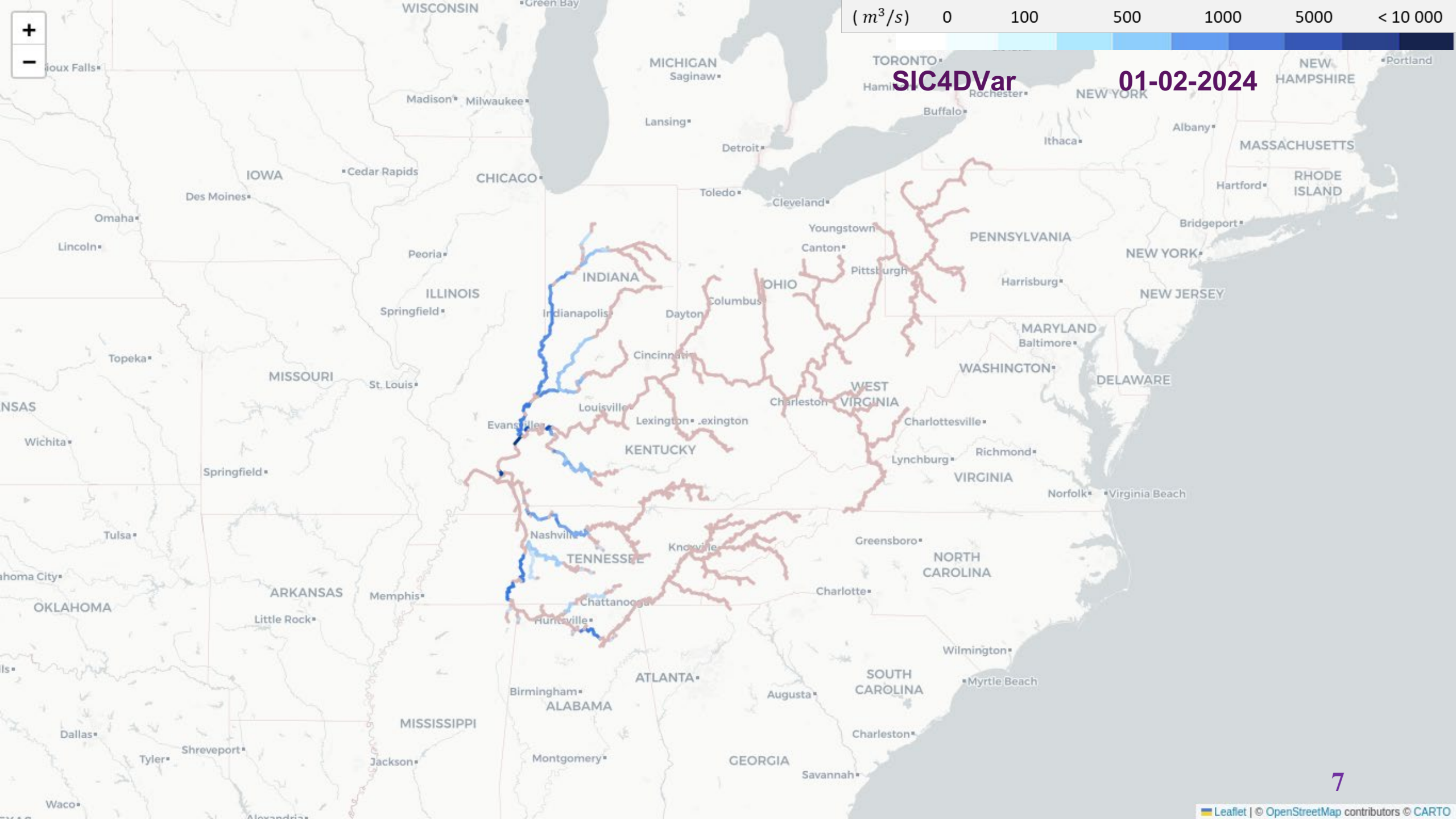


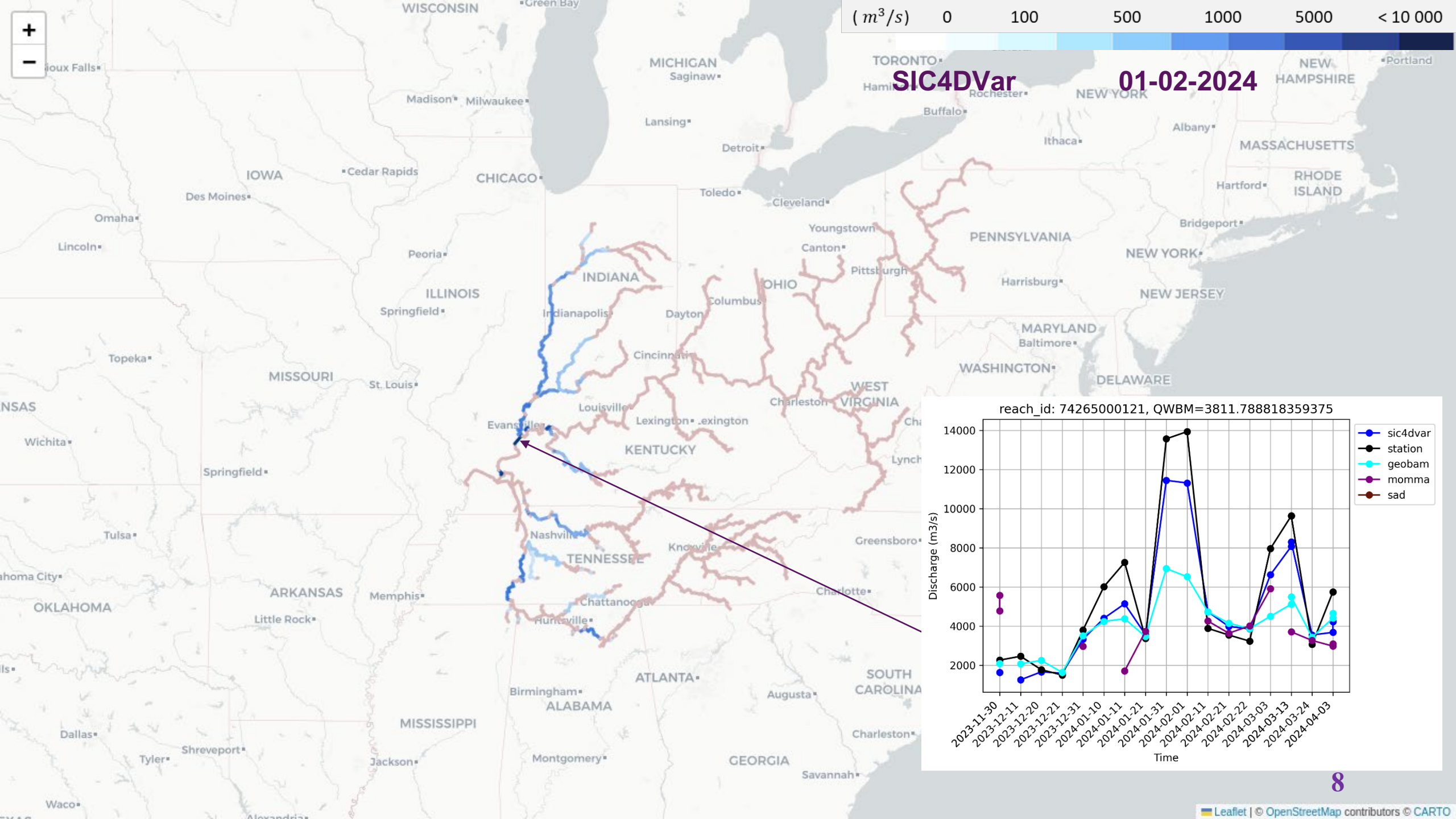
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26-11-2023 NEOBAM



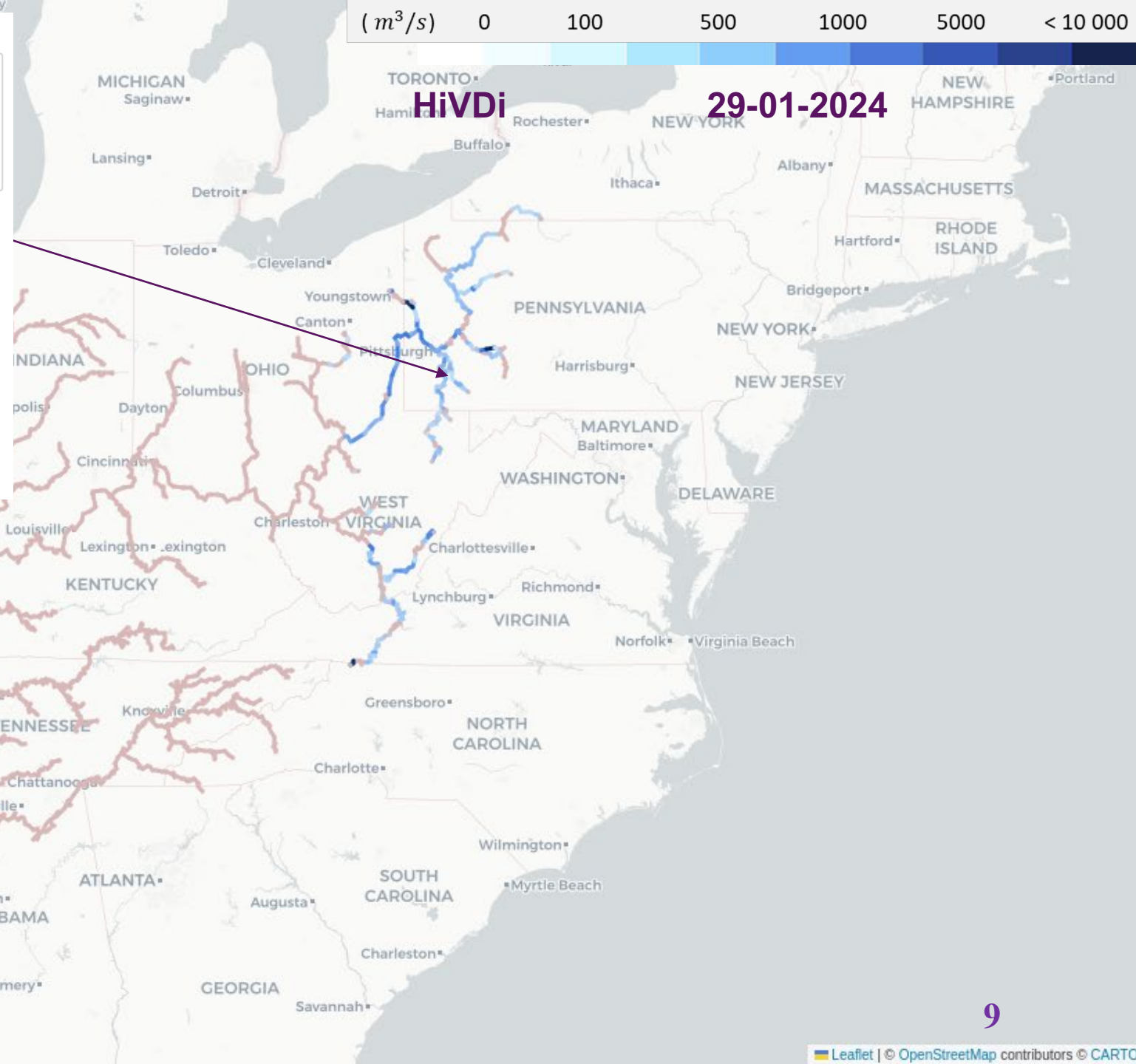
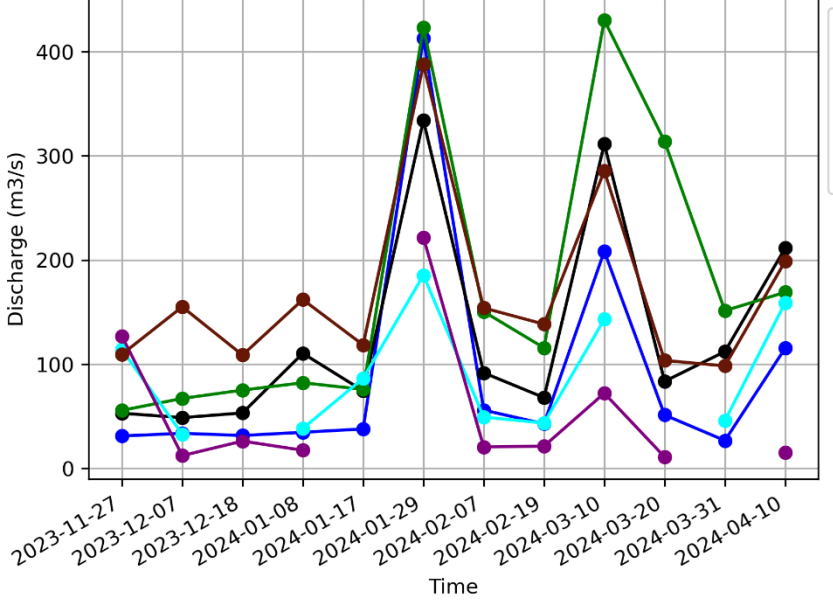
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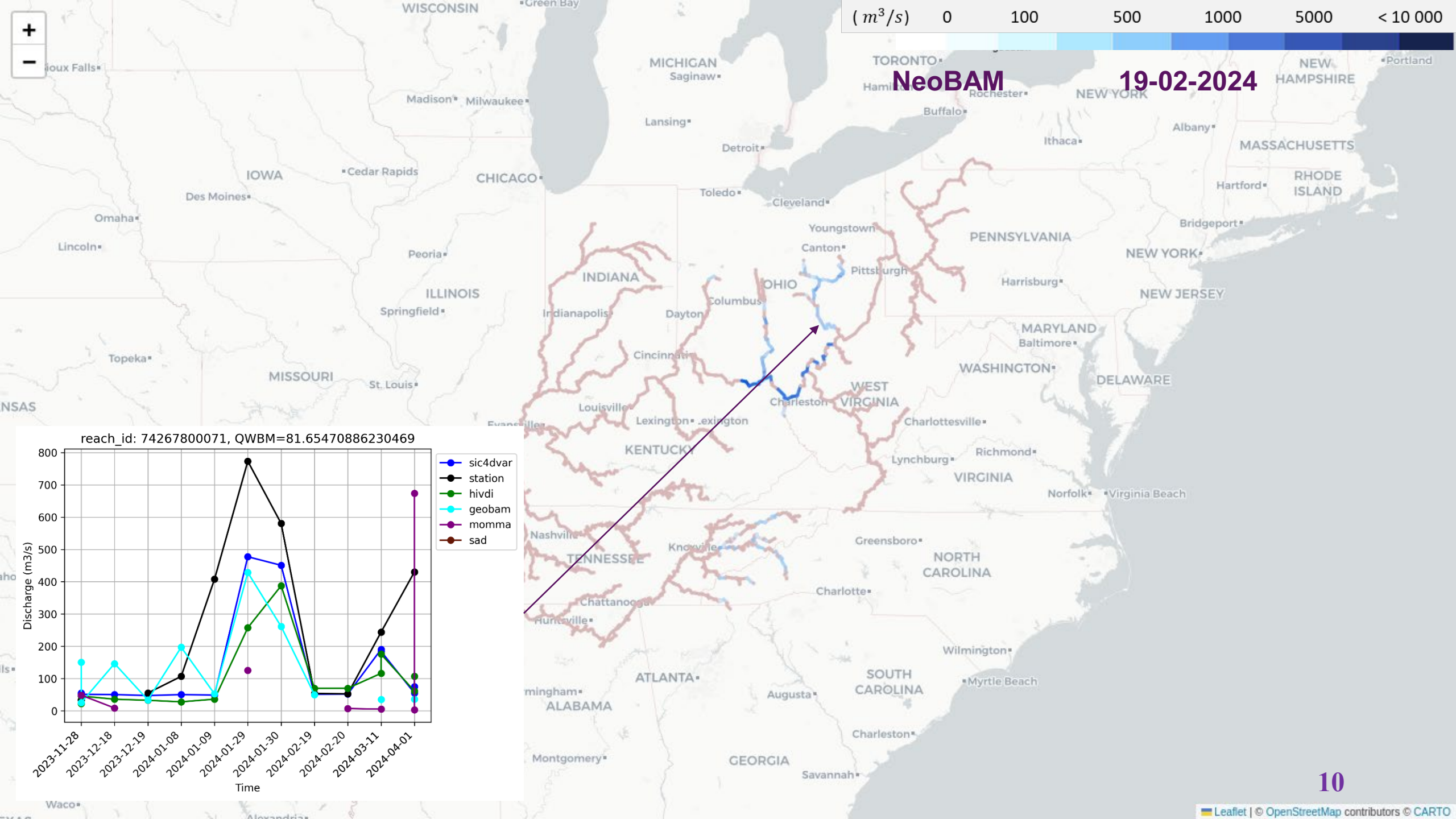


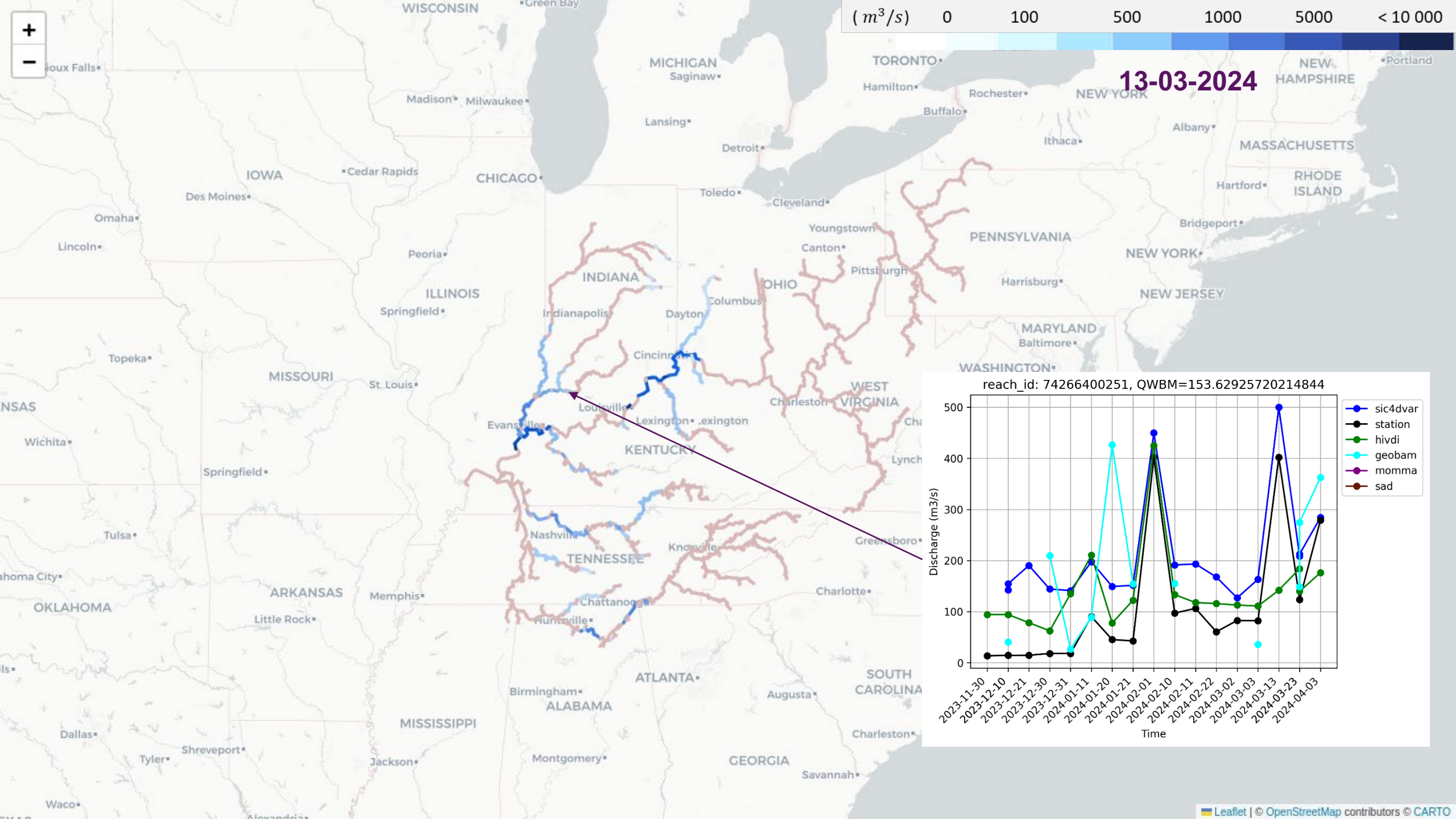


(m³/s) 0 100 500 1000 5000 < 10 000

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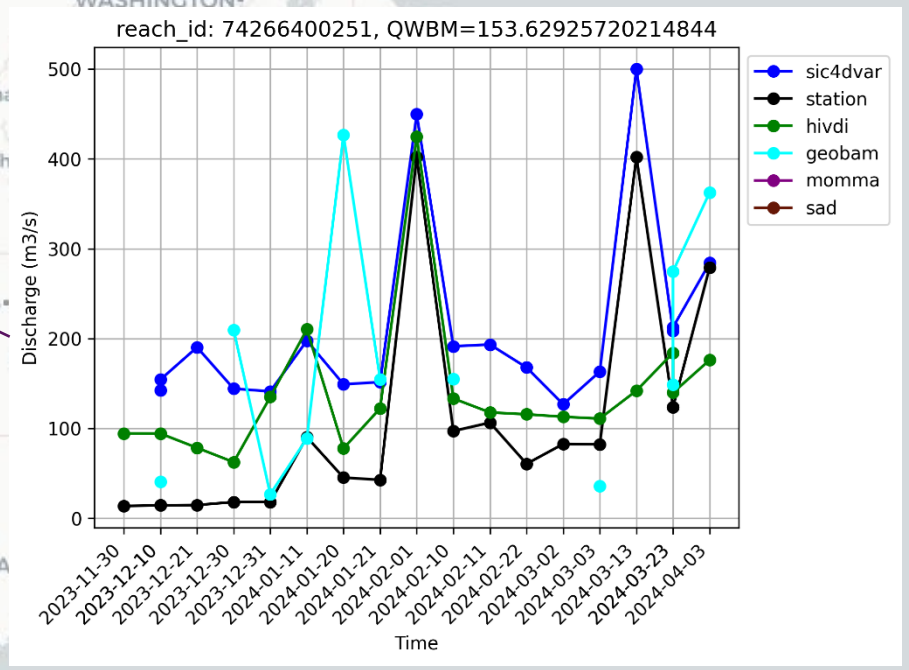


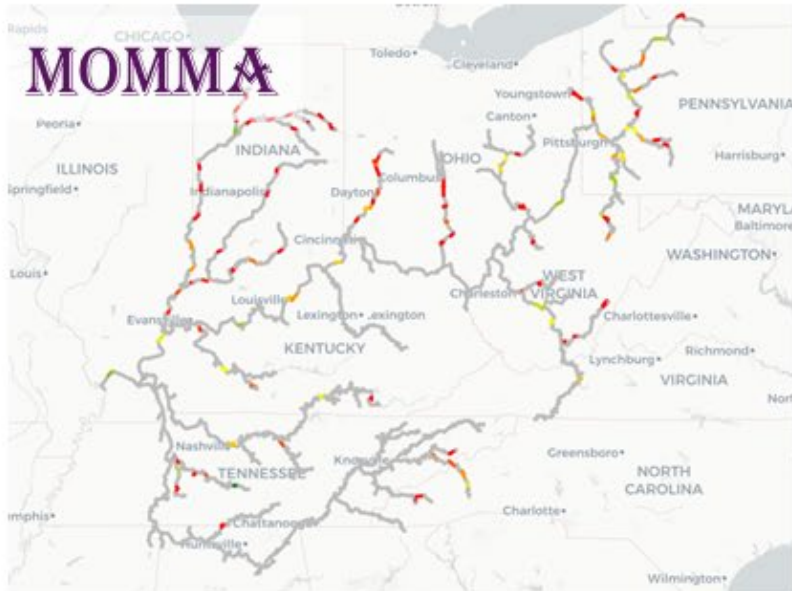
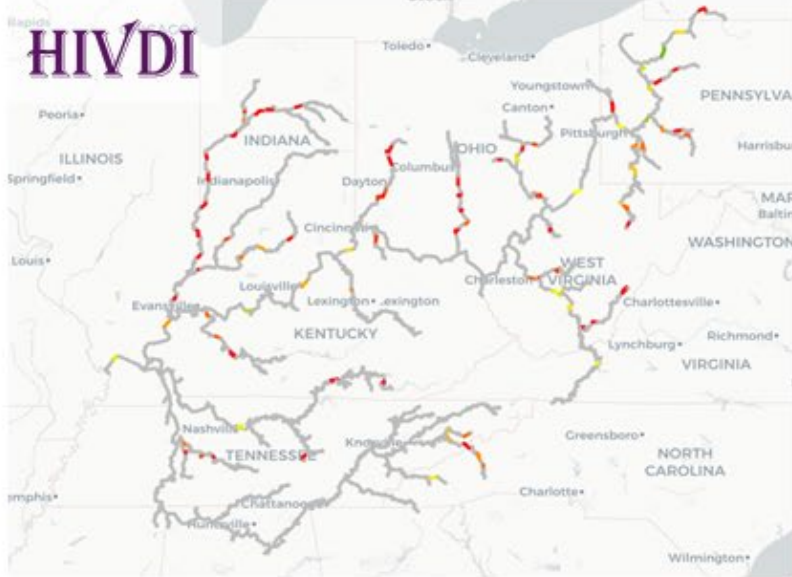
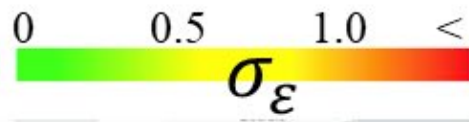




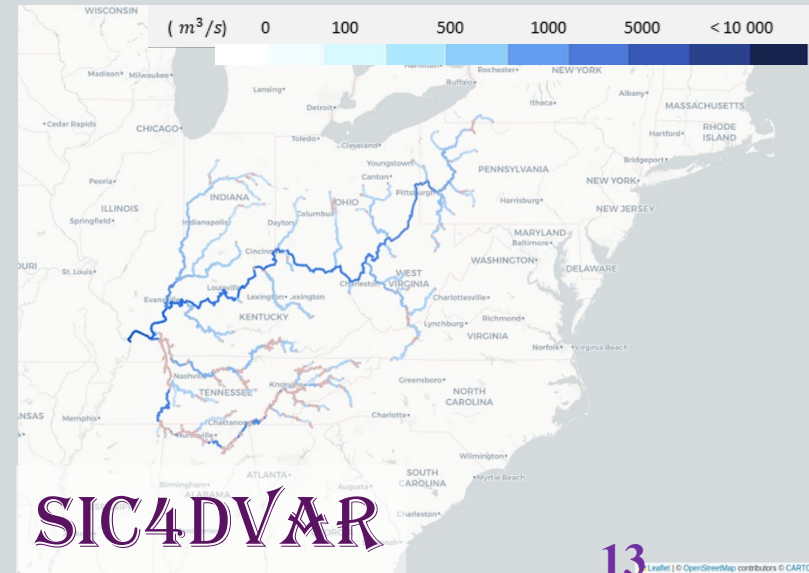
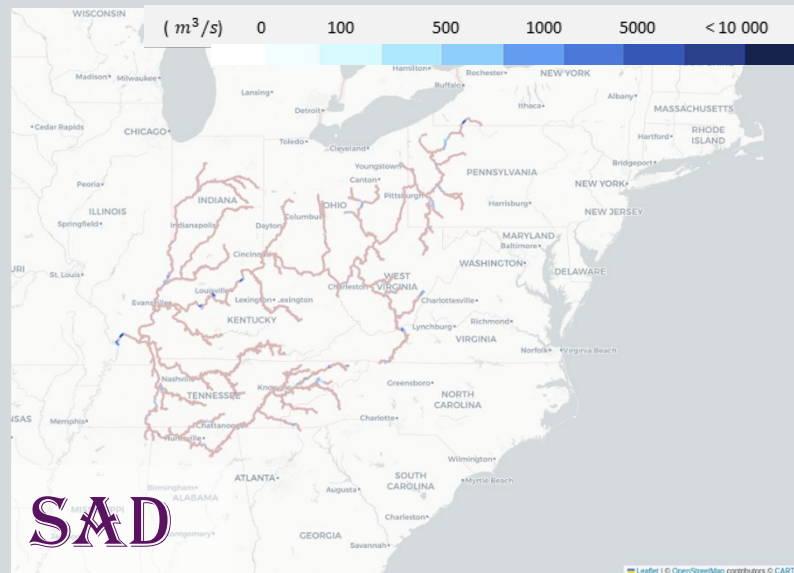
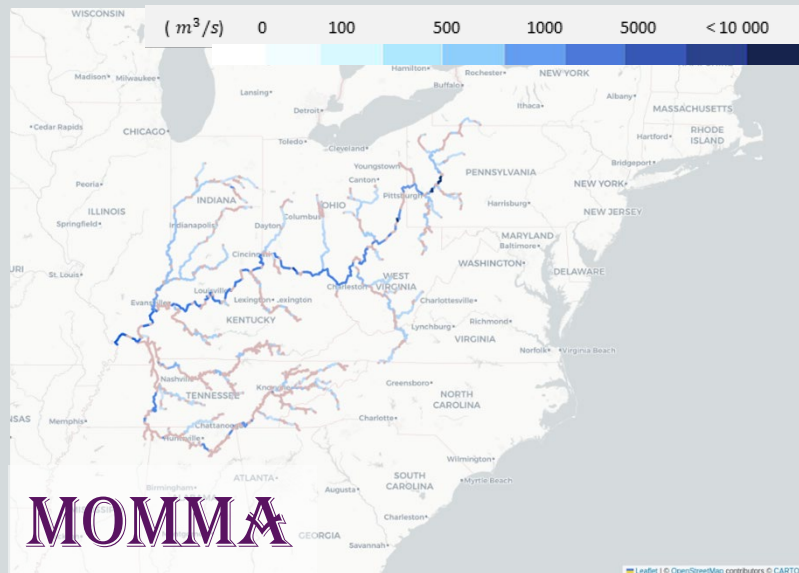
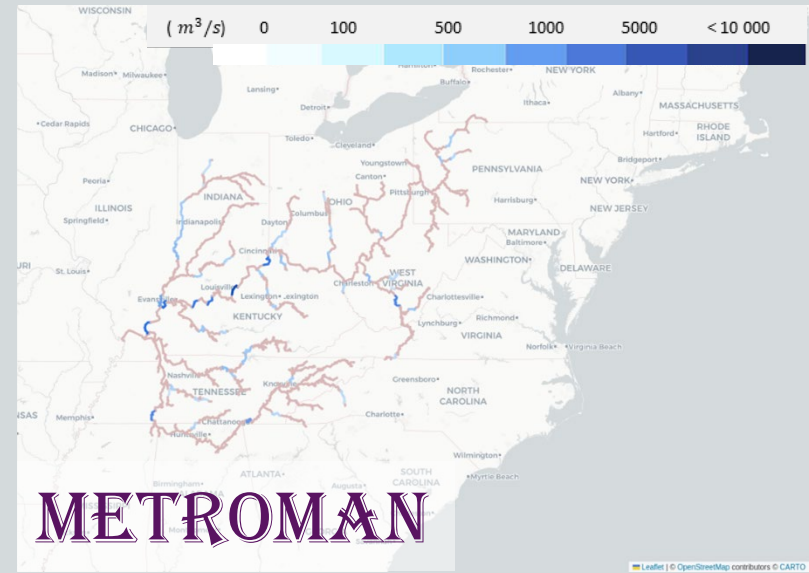
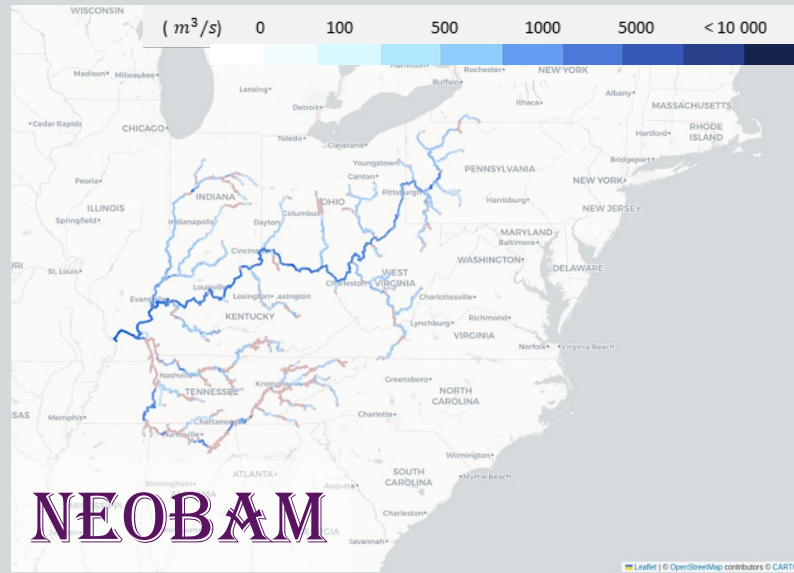
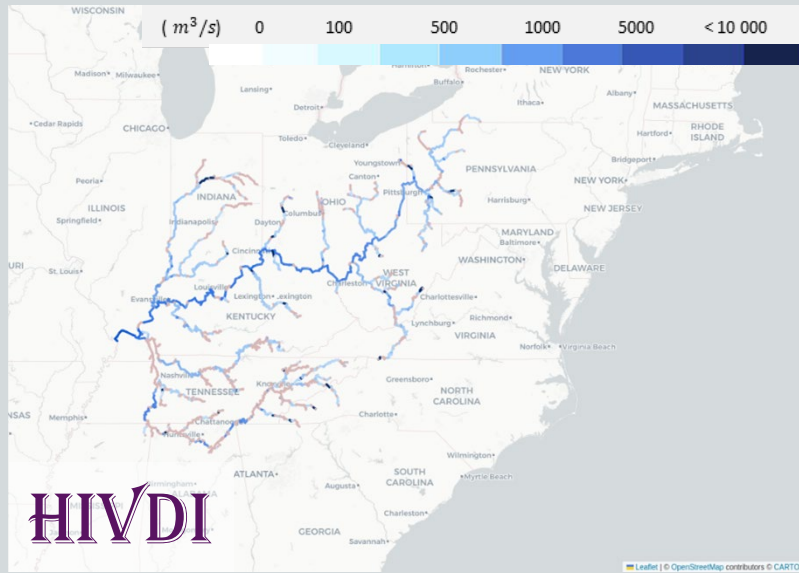
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13-03-2024

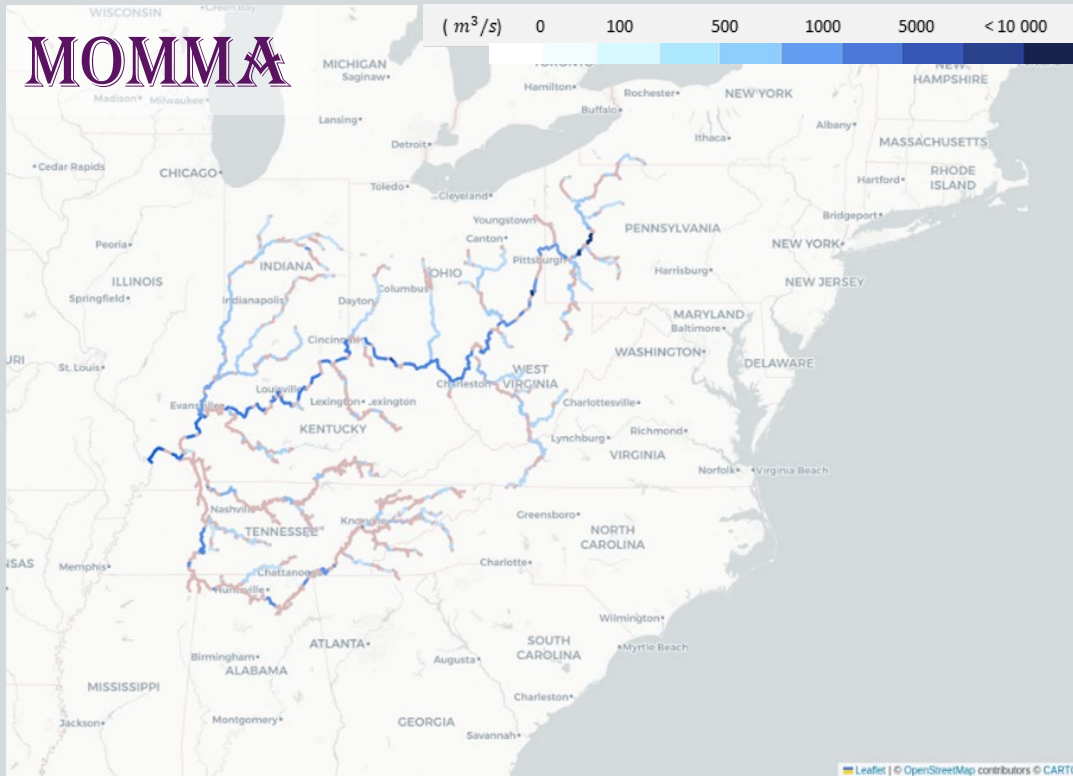




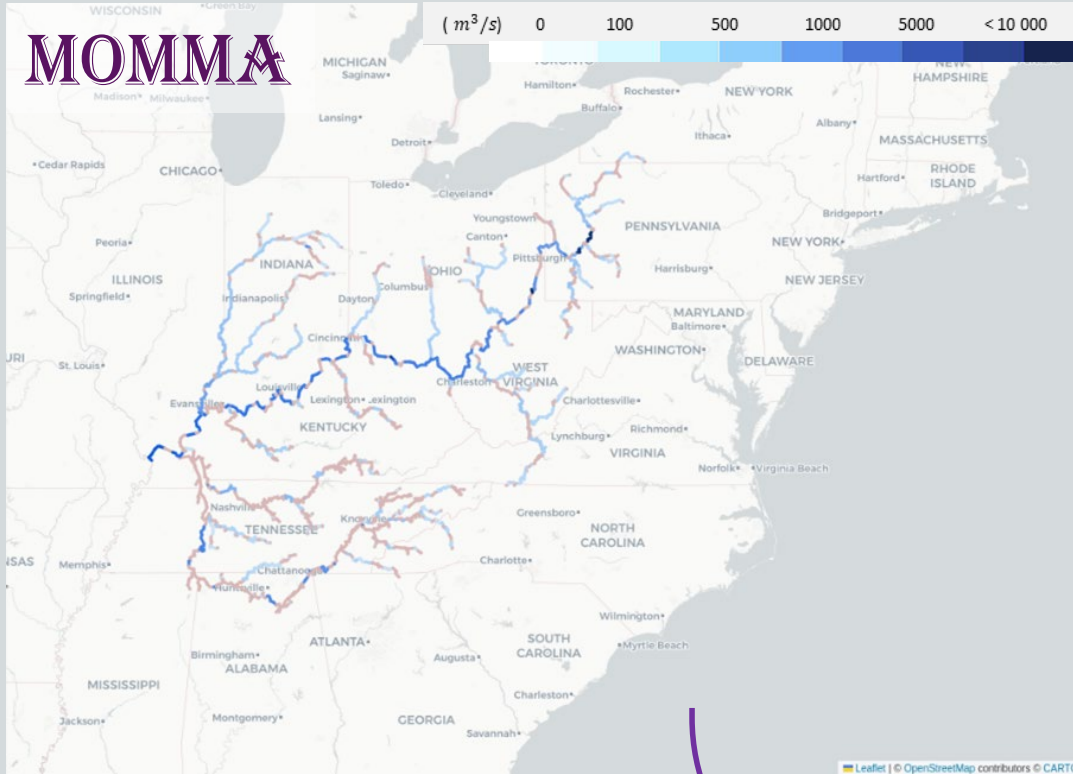
SWOT Mean discharge



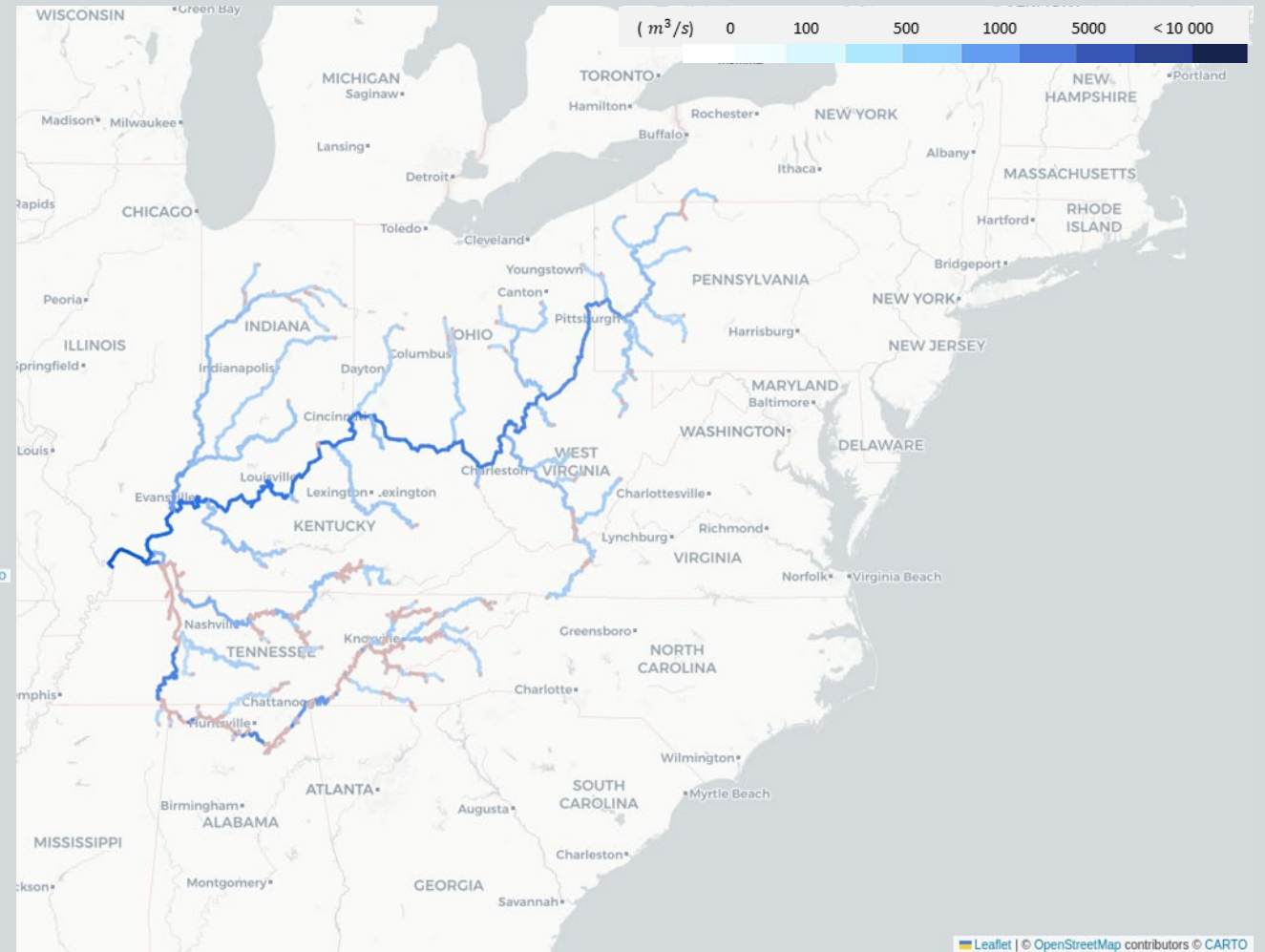
The Integrator : Spatial Improvement



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The Integrator

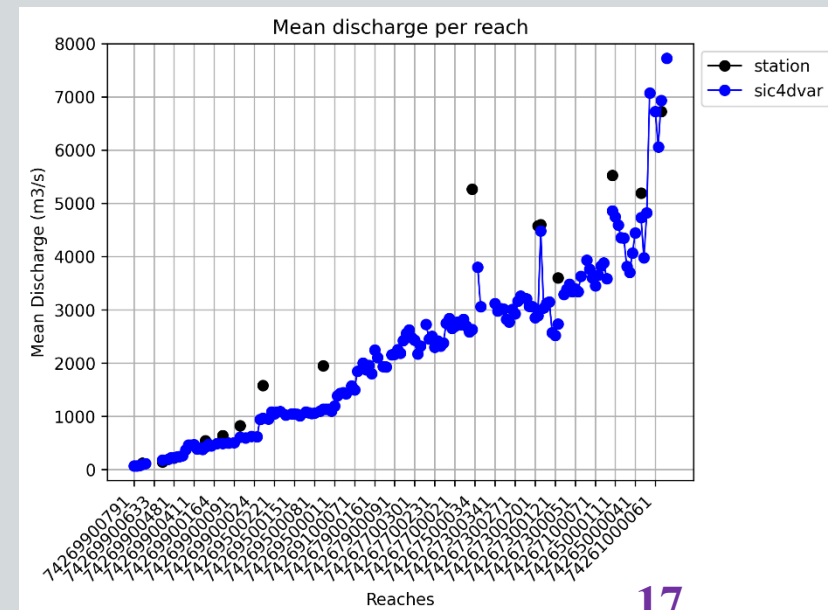
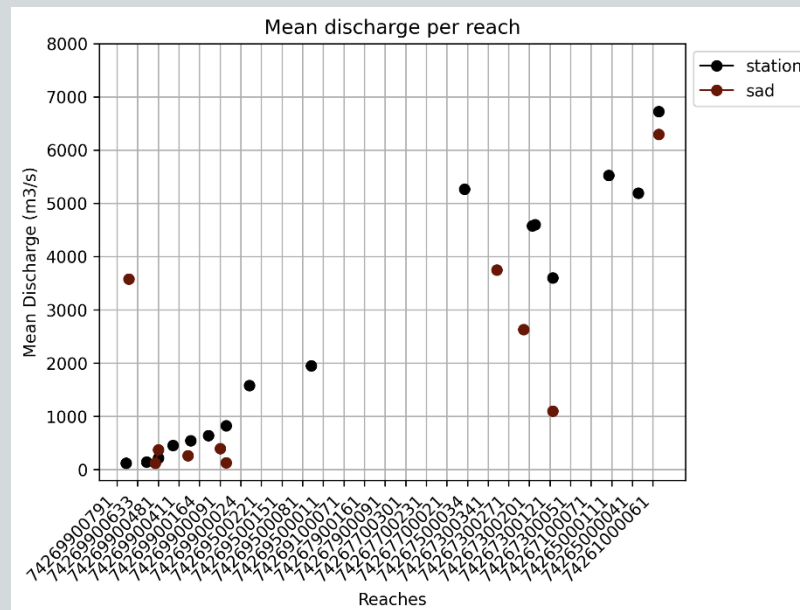
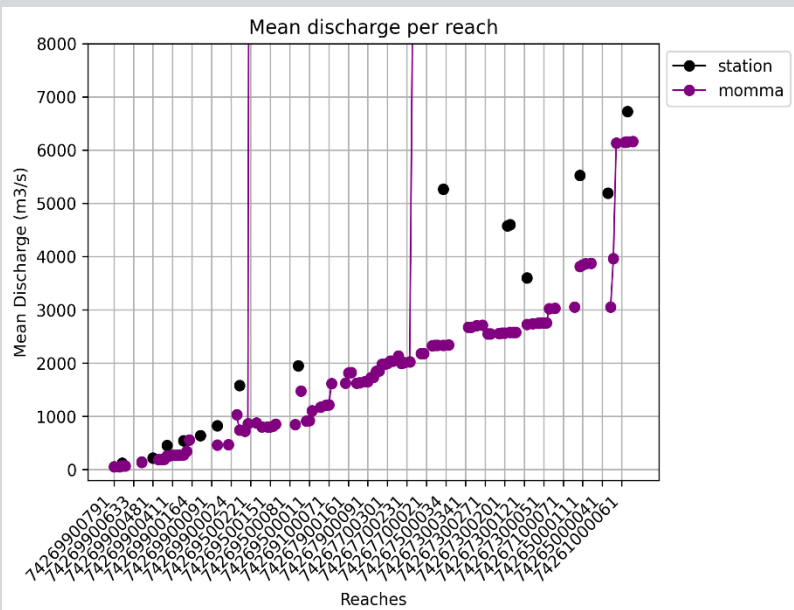
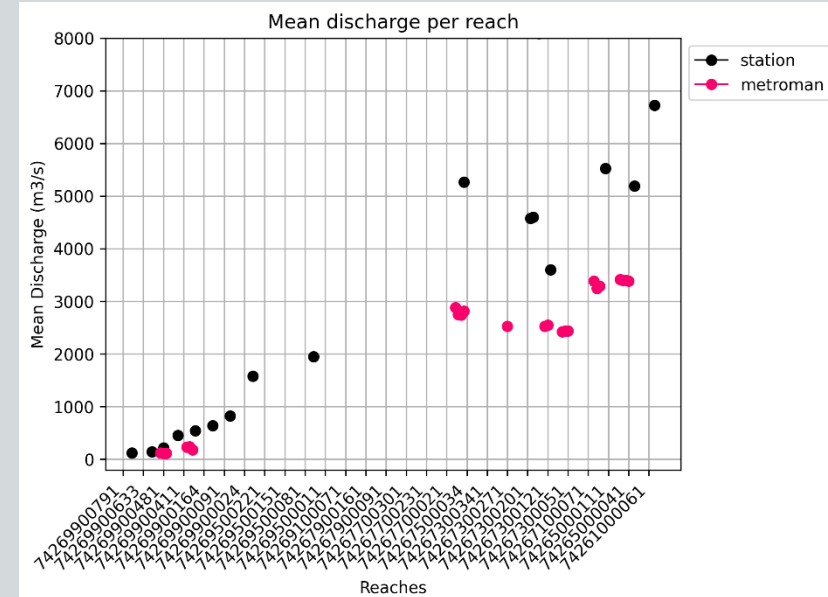
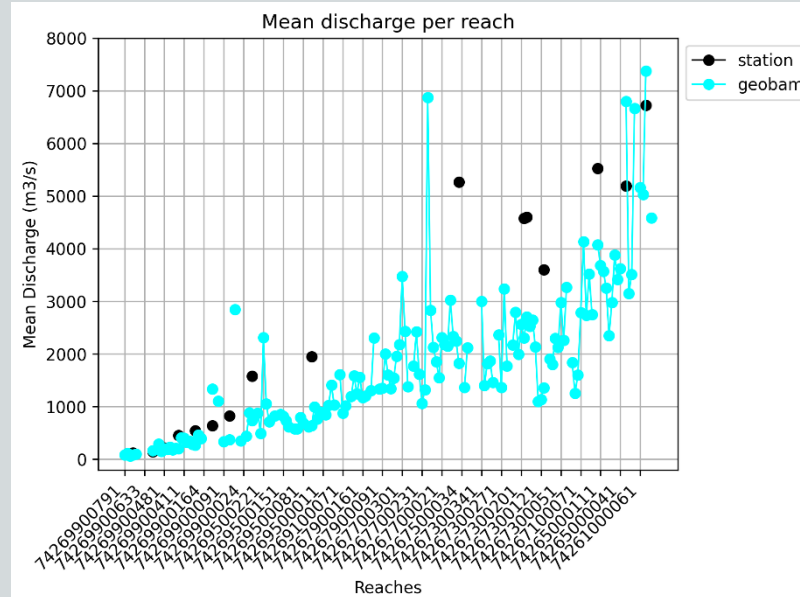
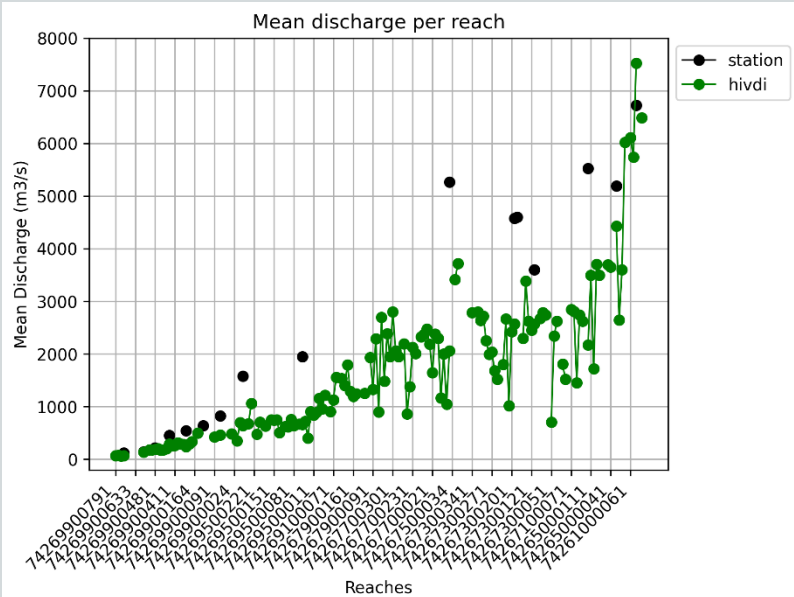


The Integrator : Spatial Improvement

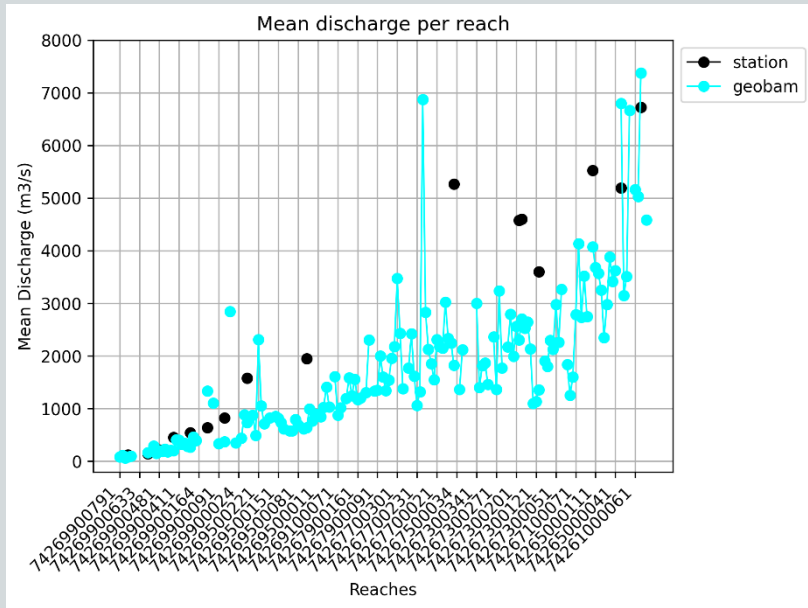
The Ohio mainstream reaches
(Allegheny+Ohio)



The Integrator : Spatial Improvement

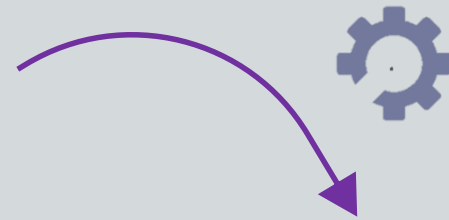
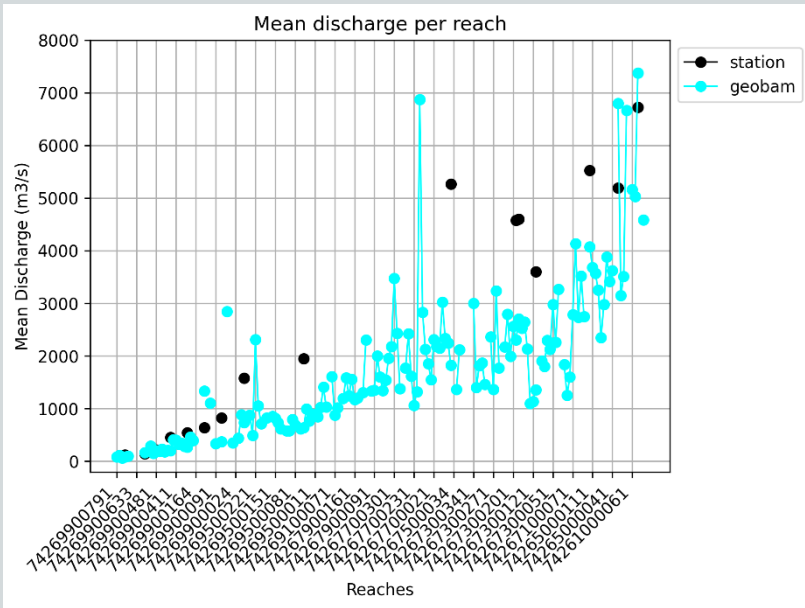


The Integrator : Spatial Improvement



The Ohio mainstream reaches
(Allegheny+Ohio)

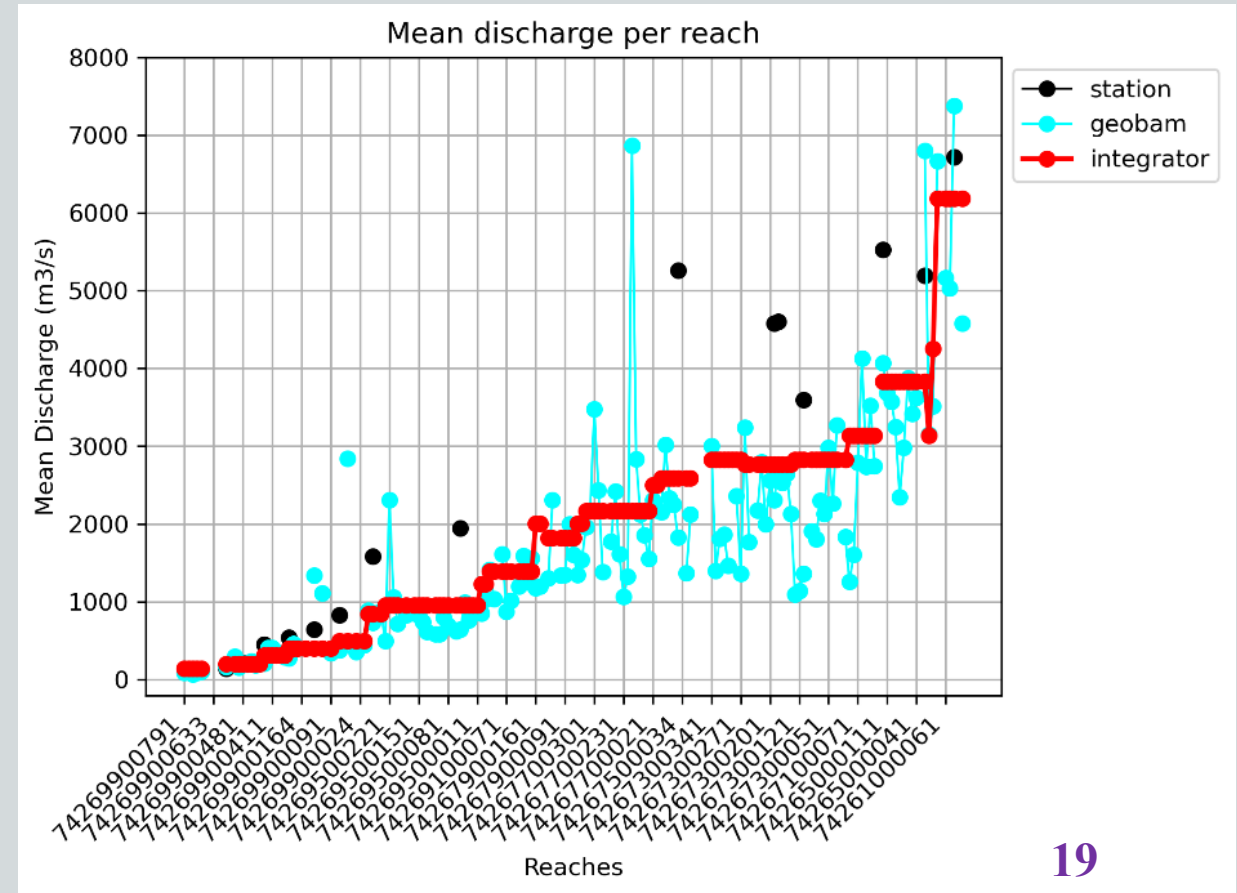
The Integrator : Spatial Improvement



The Integrator



The Ohio mainstream reaches (Allegheny+Ohio)

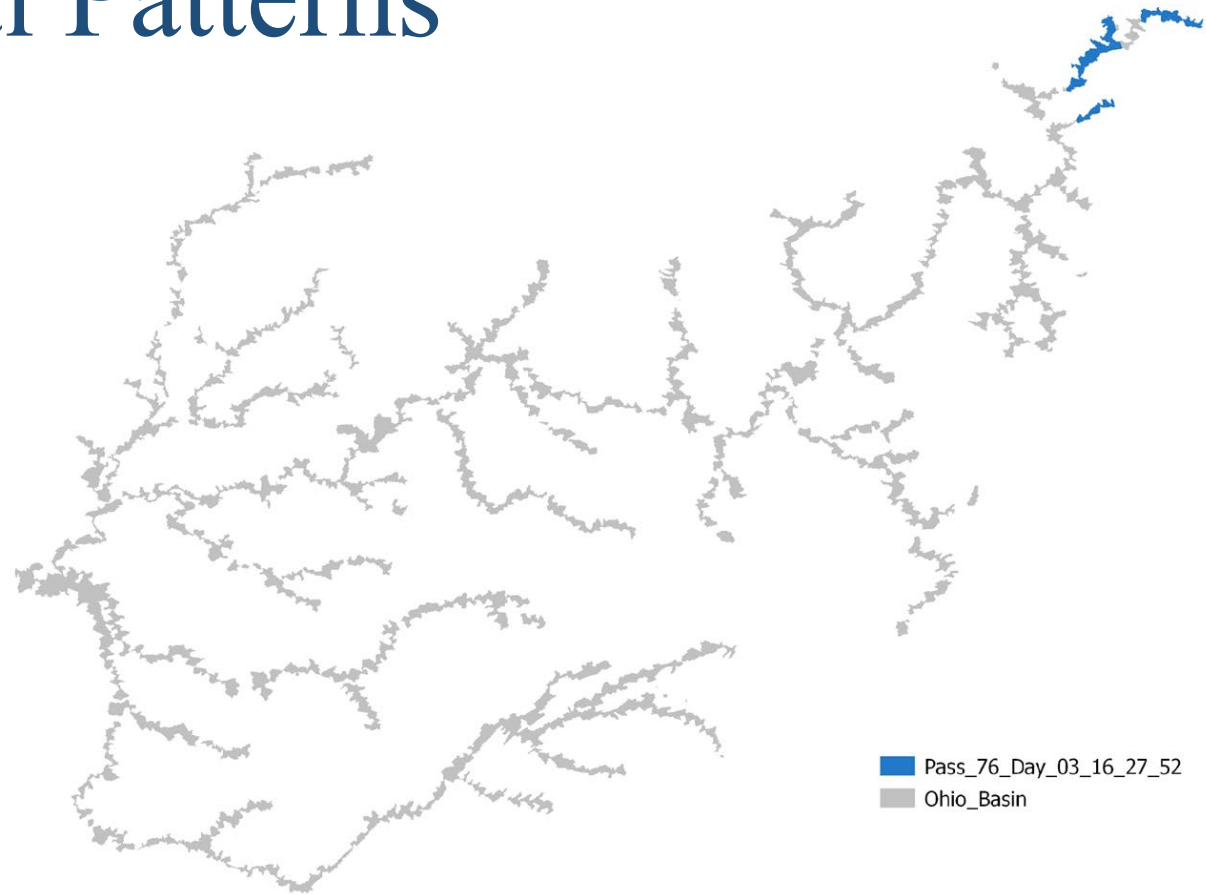


SWOT Discharge

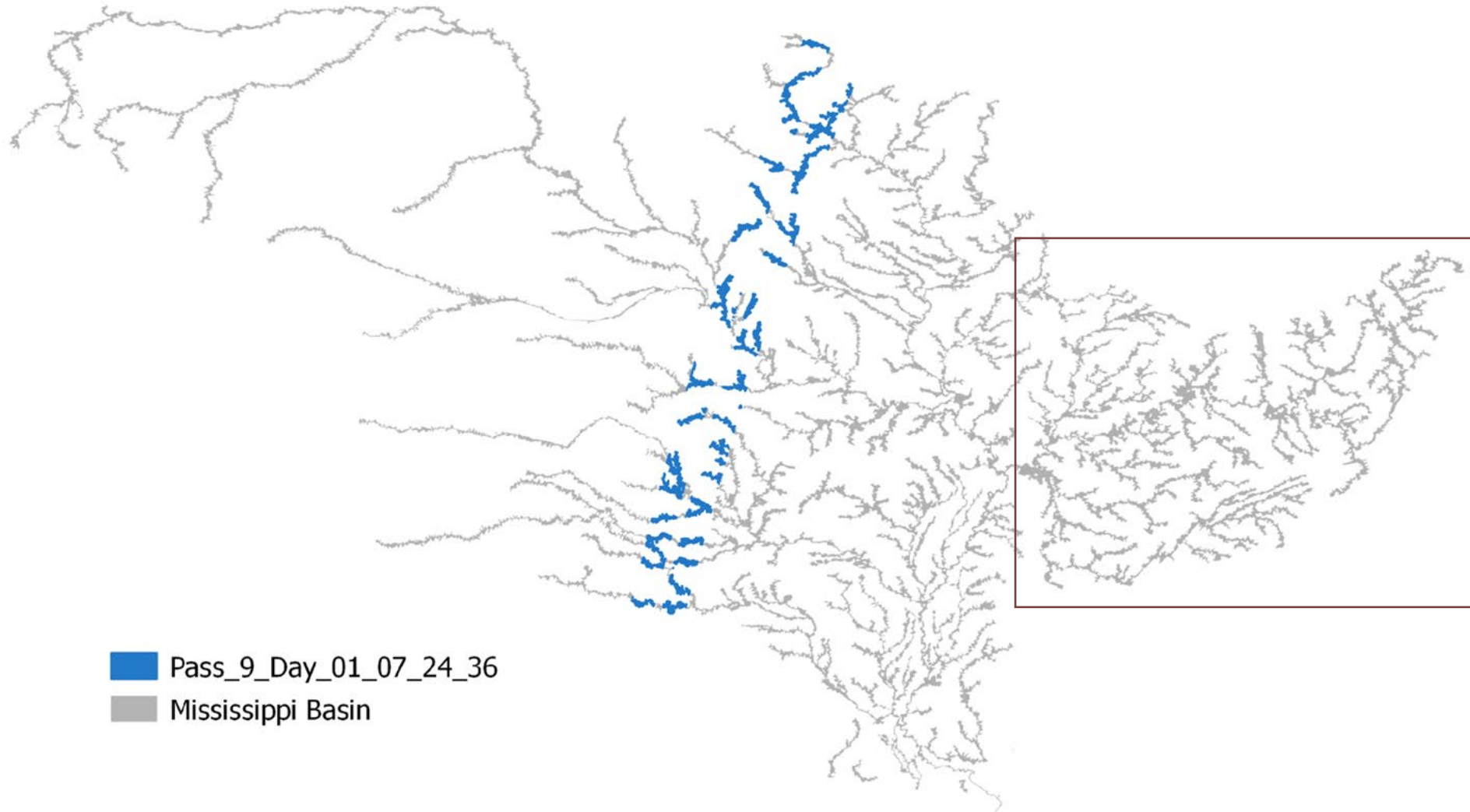
Revealing the Spatial Patterns

SWOT Nominal Orbit over
The Ohio Basin

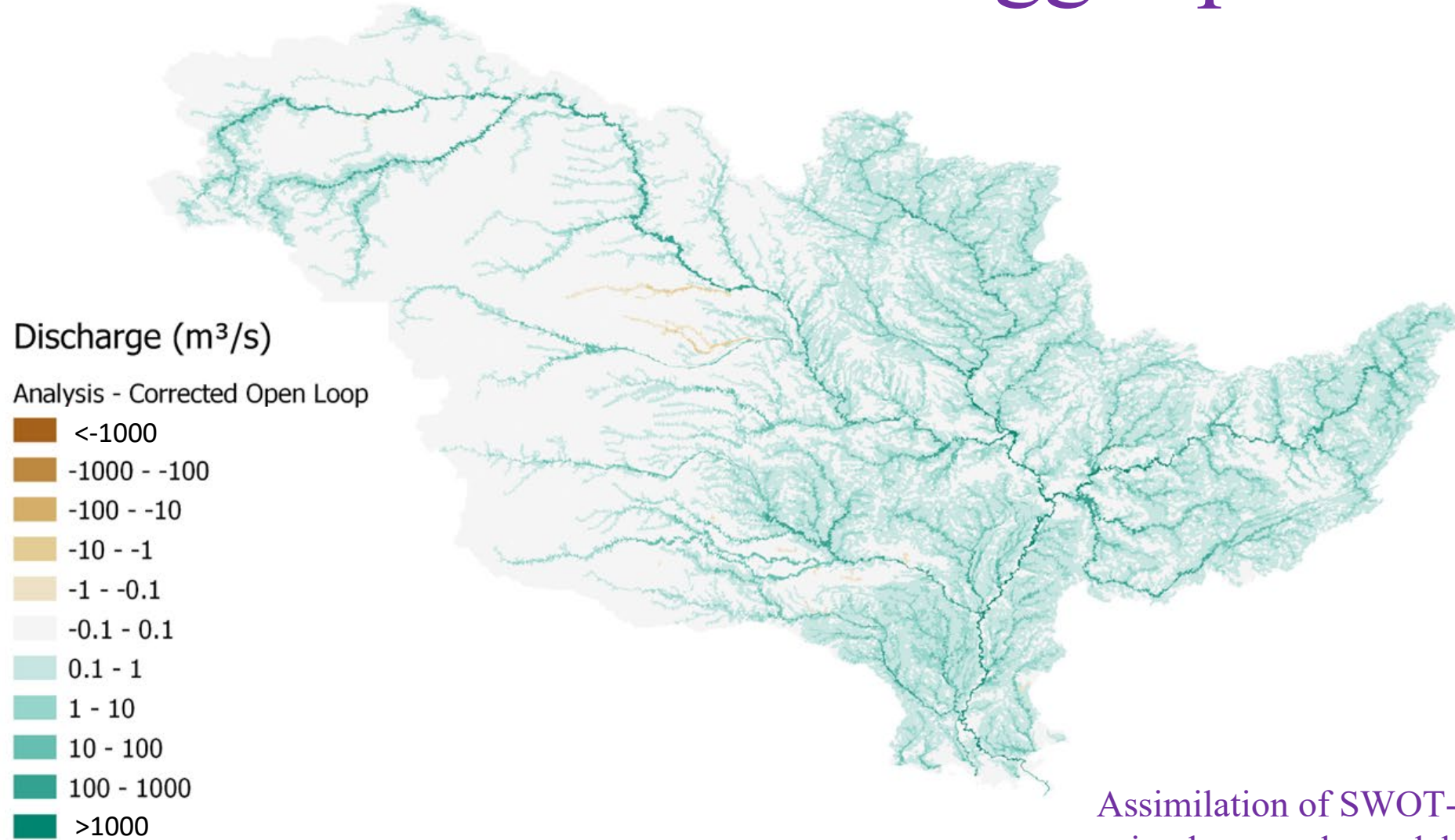
Period : Nov 2023-April 2024



The bigger picture ...



The bigger picture ...



Assimilation of SWOT-like discharge
using large scale models (RAPID DA)

Merci!

