

# PRELIMINARY VISUALIZATION OF PHASE 6 RANGING SCENARIOS

Presentation to the Water Quality Goal Implementation Team

October 24, 2016

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# OVERVIEW

- Visualize spatial arrangement of N, P, and TSS yields associated with P6 of the Watershed Model and expected Deep Channel responses
- Interactive – user can pan, zoom and access nutrient/sediment details of a particular LRSeg (yields) or Bay segment (attainment)
- Scenarios include AllElse and Point Source loads/yields
- Data from CBP Modeling Team
- Functionality and data will evolve

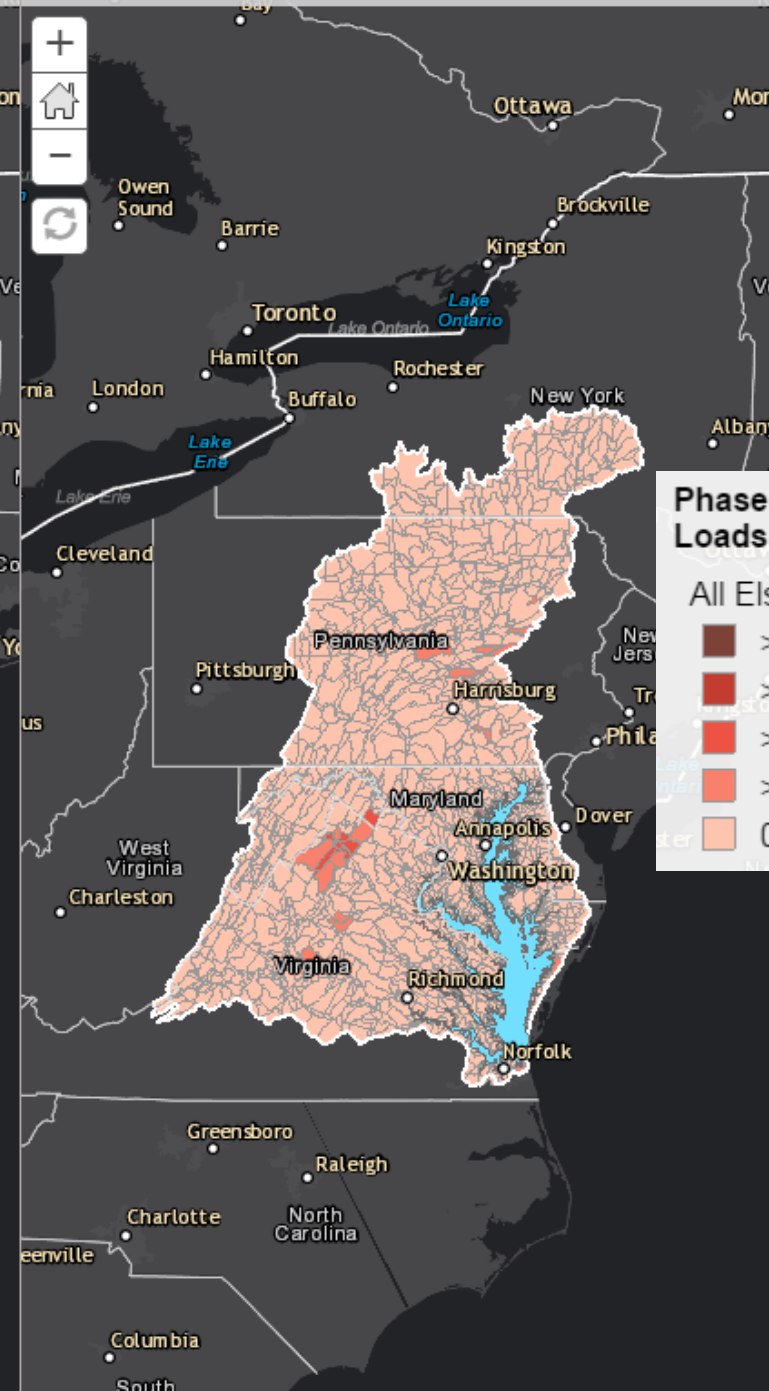
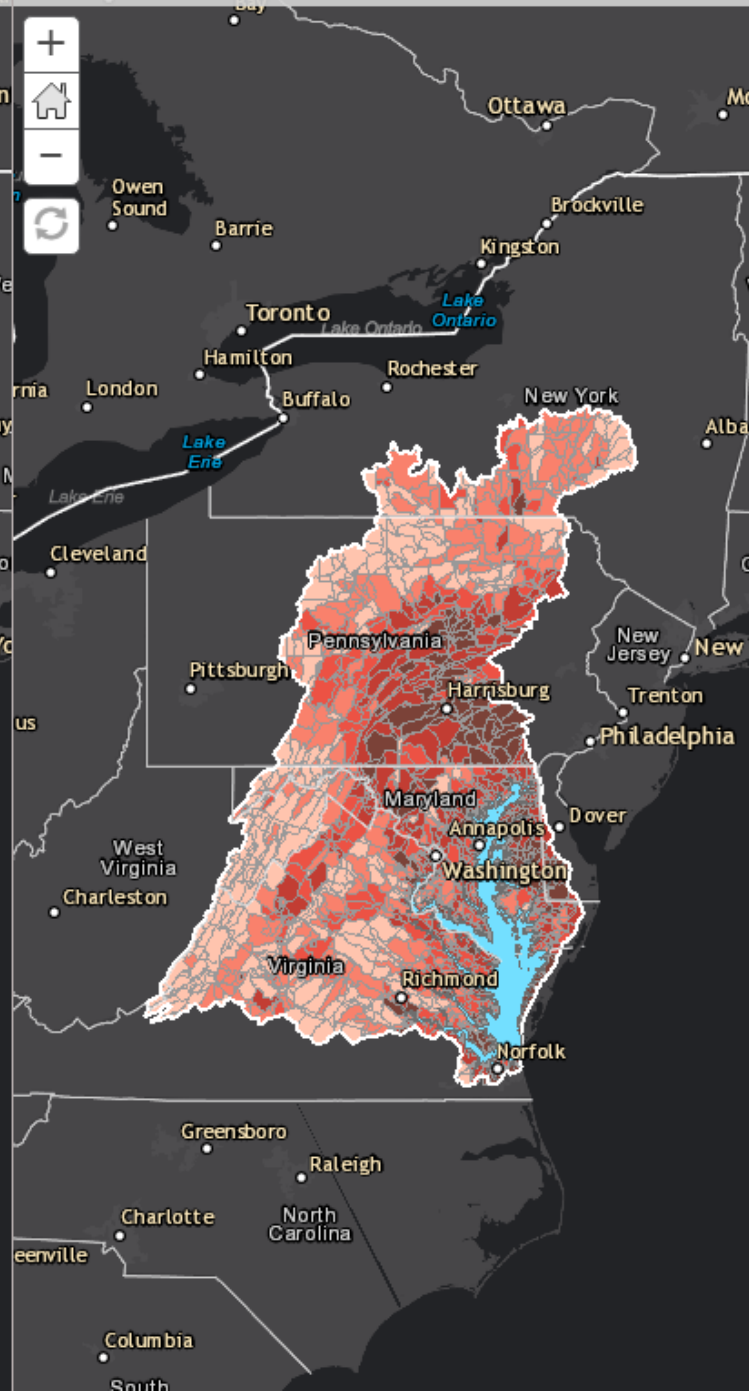
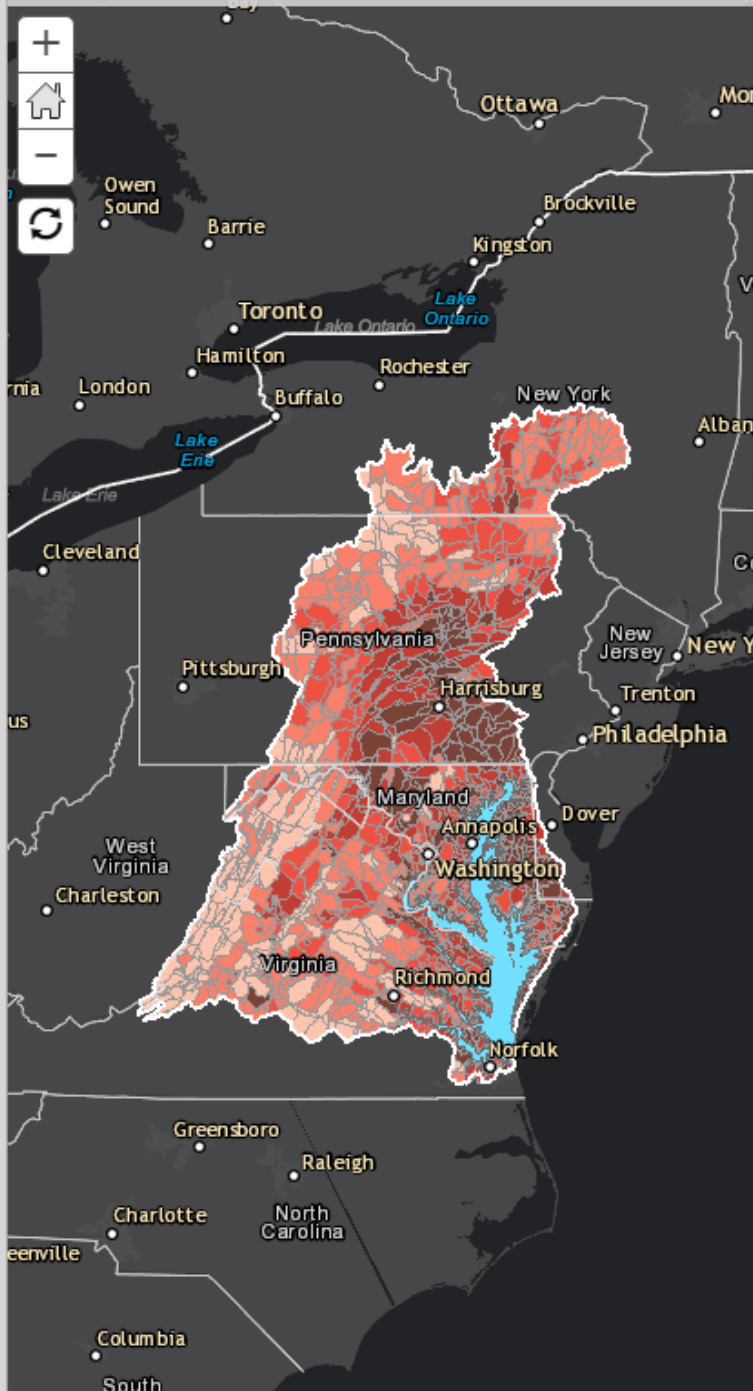
# GEOSPATIAL VIEWERS - TWO VERSIONS

## A

- User selects scenarios of interest
- Preconfigured side-by-side presentation of alternative scenarios
- Consistent presentation
- Views can be synced

## B

- Custom layer selection
- View scenarios alongside other model layers



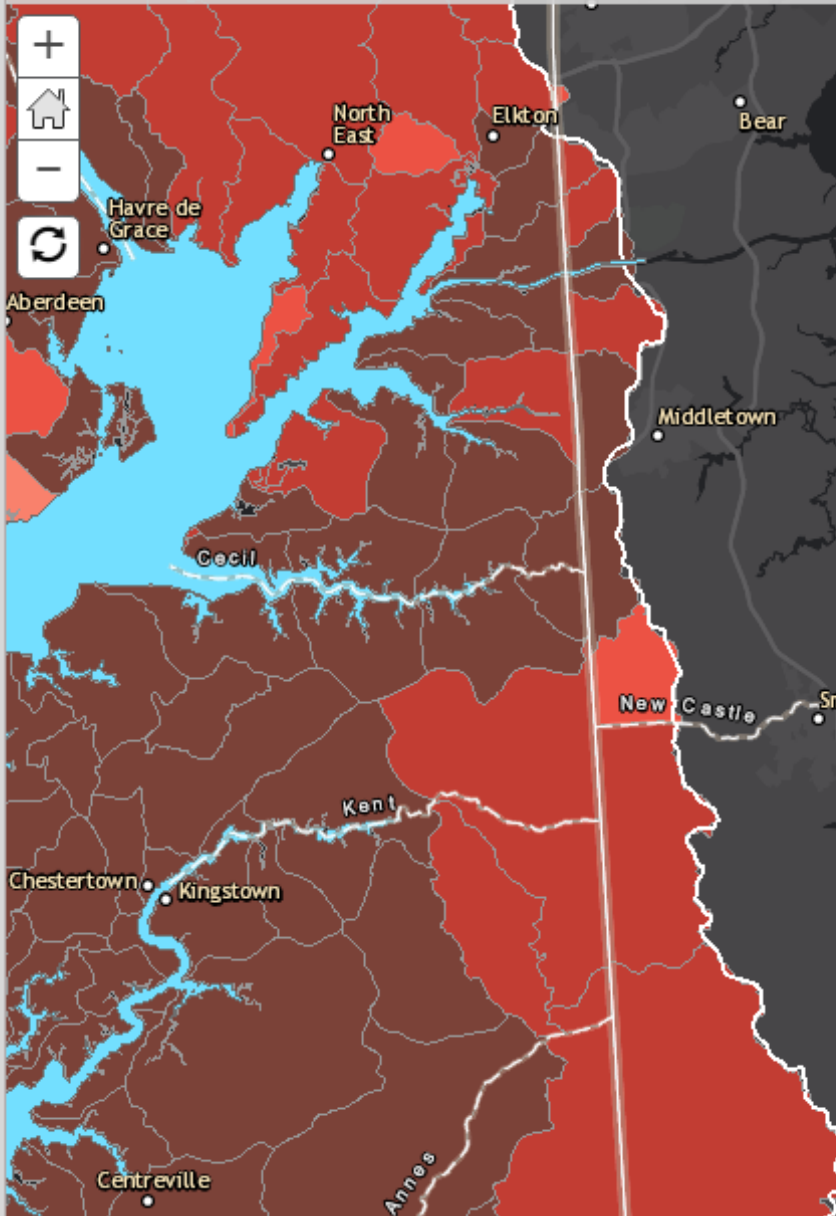
### Phase 6 Beta 3 Loads

All Else - Yield

- > 12
- > 7 to 12
- > 4 to 7
- > 2 to 4
- 0 to 2

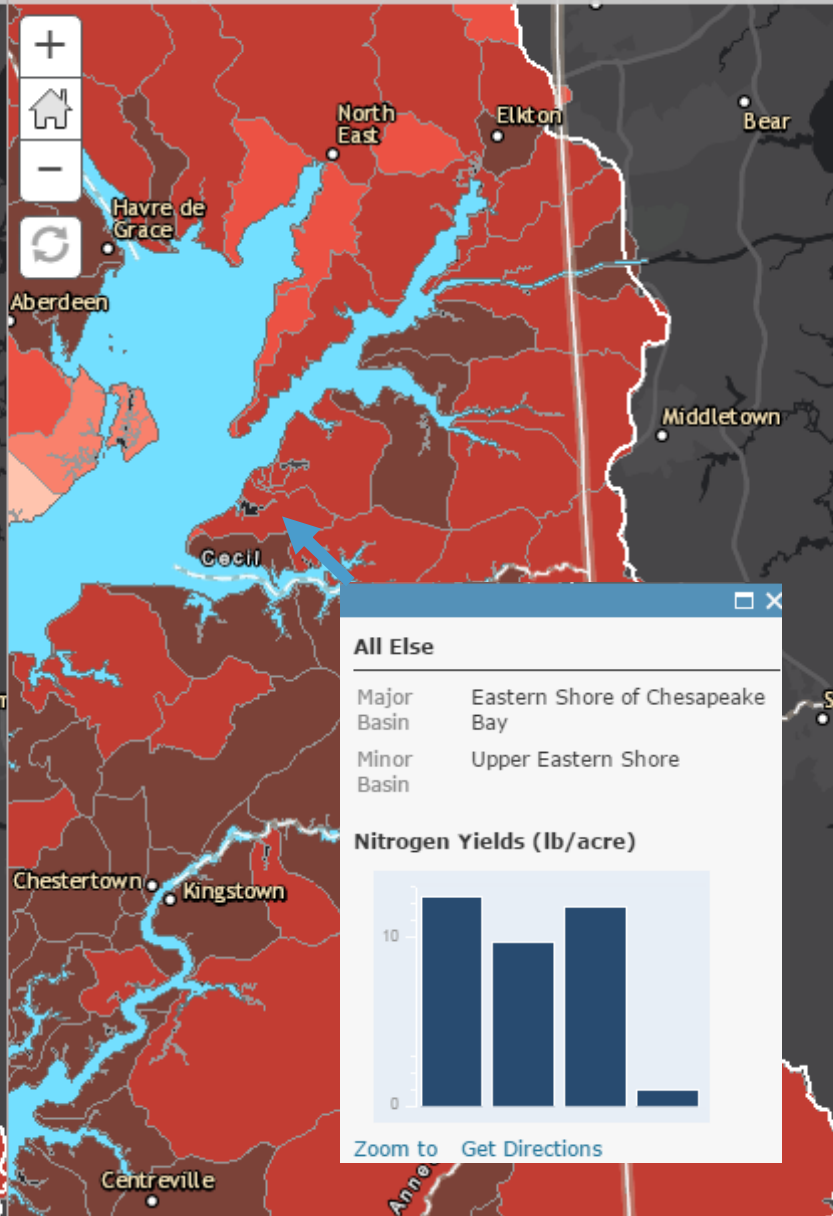
N 1985 All Else

Newark



N 2009 All Else

Newark



#### All Else

Major Basin Eastern Shore of Chesapeake Bay  
Minor Basin Upper Eastern Shore

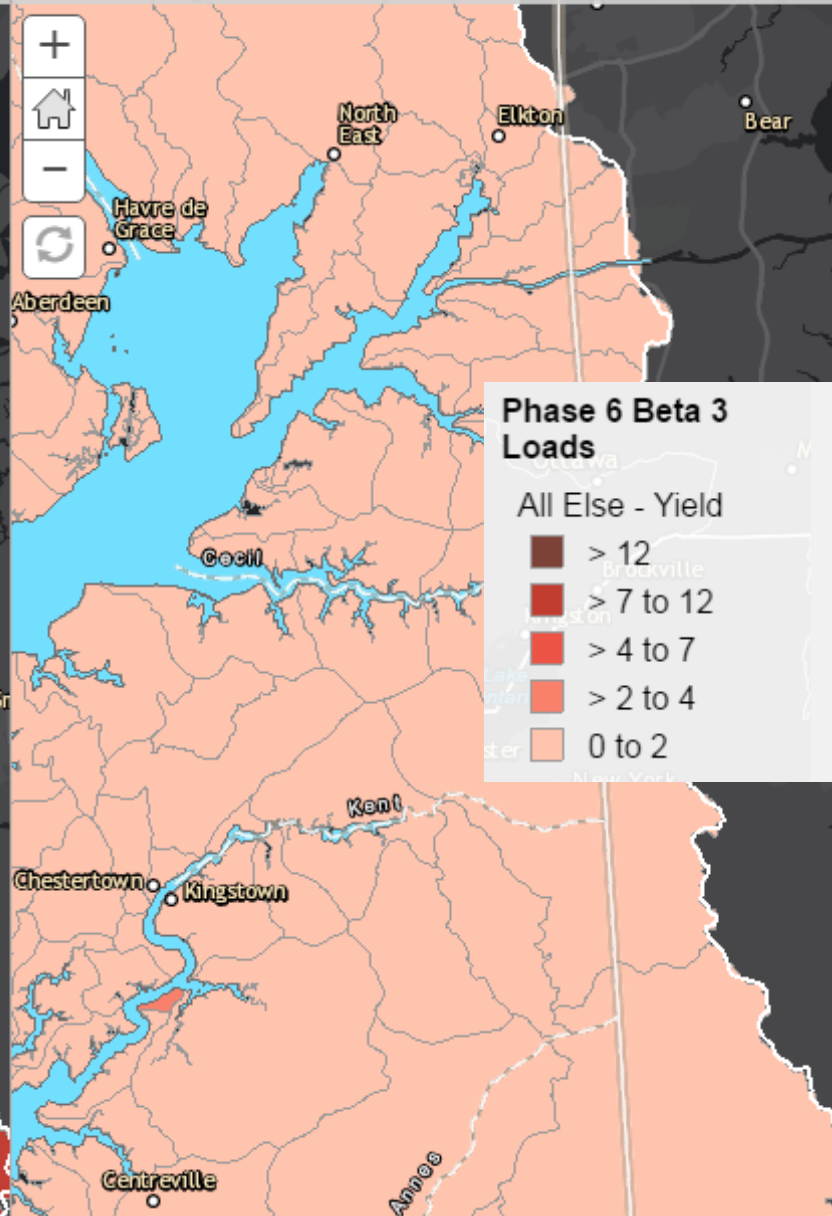
#### Nitrogen Yields (lb/acre)



Zoom to Get Directions

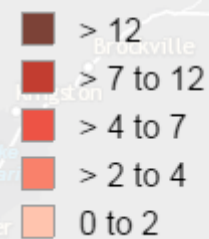
N All Forest All Else

Newark



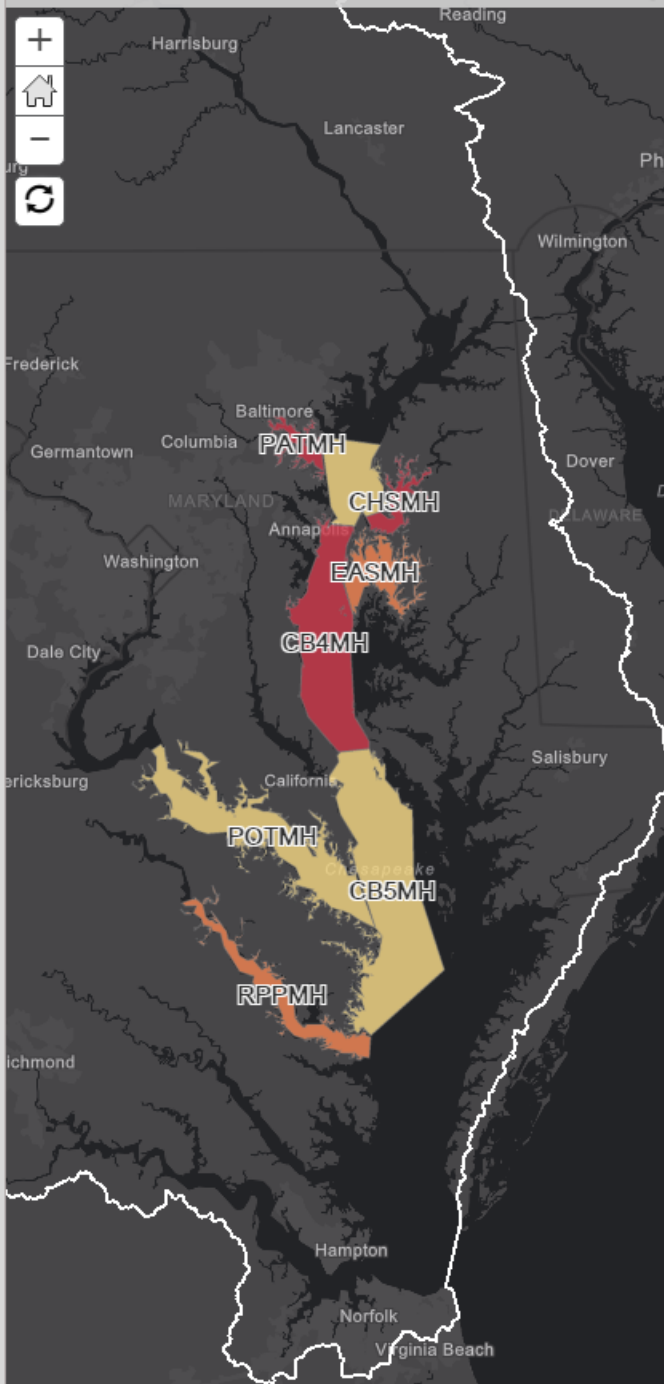
#### Phase 6 Beta 3 Loads

All Else - Yield

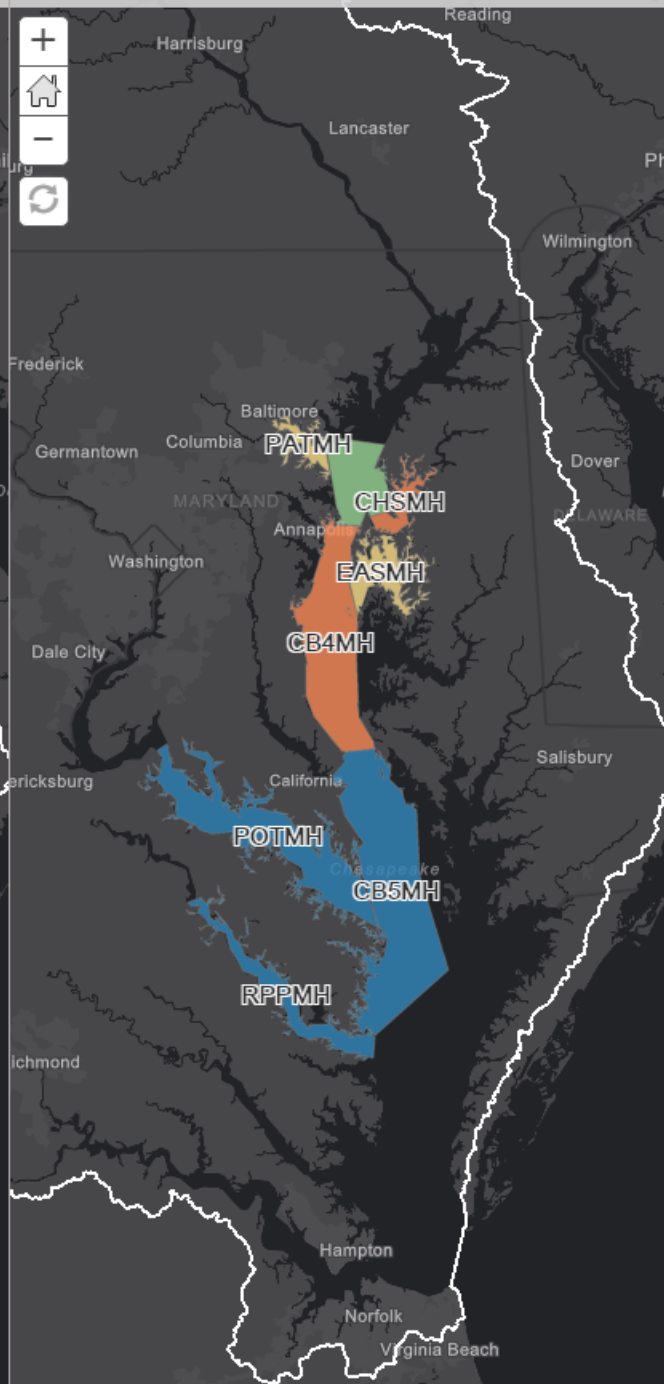




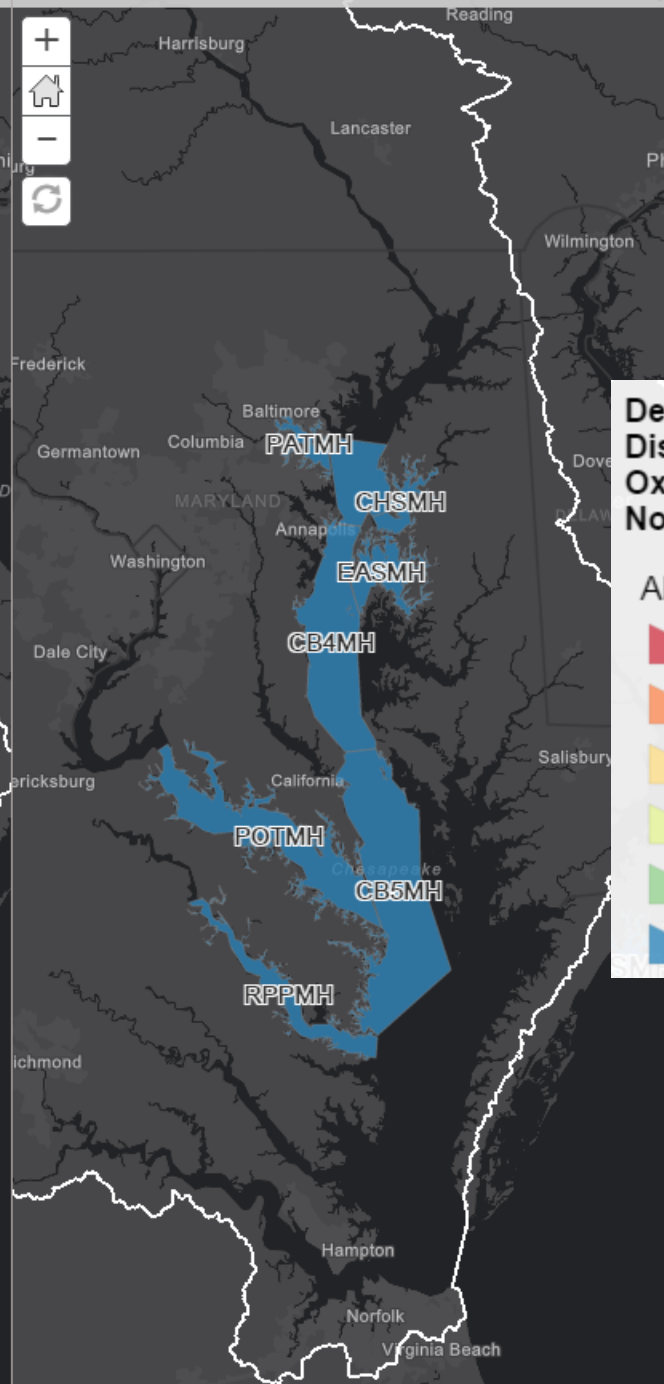
DO 1985 Deep Channel



DO 2009 Deep Channel



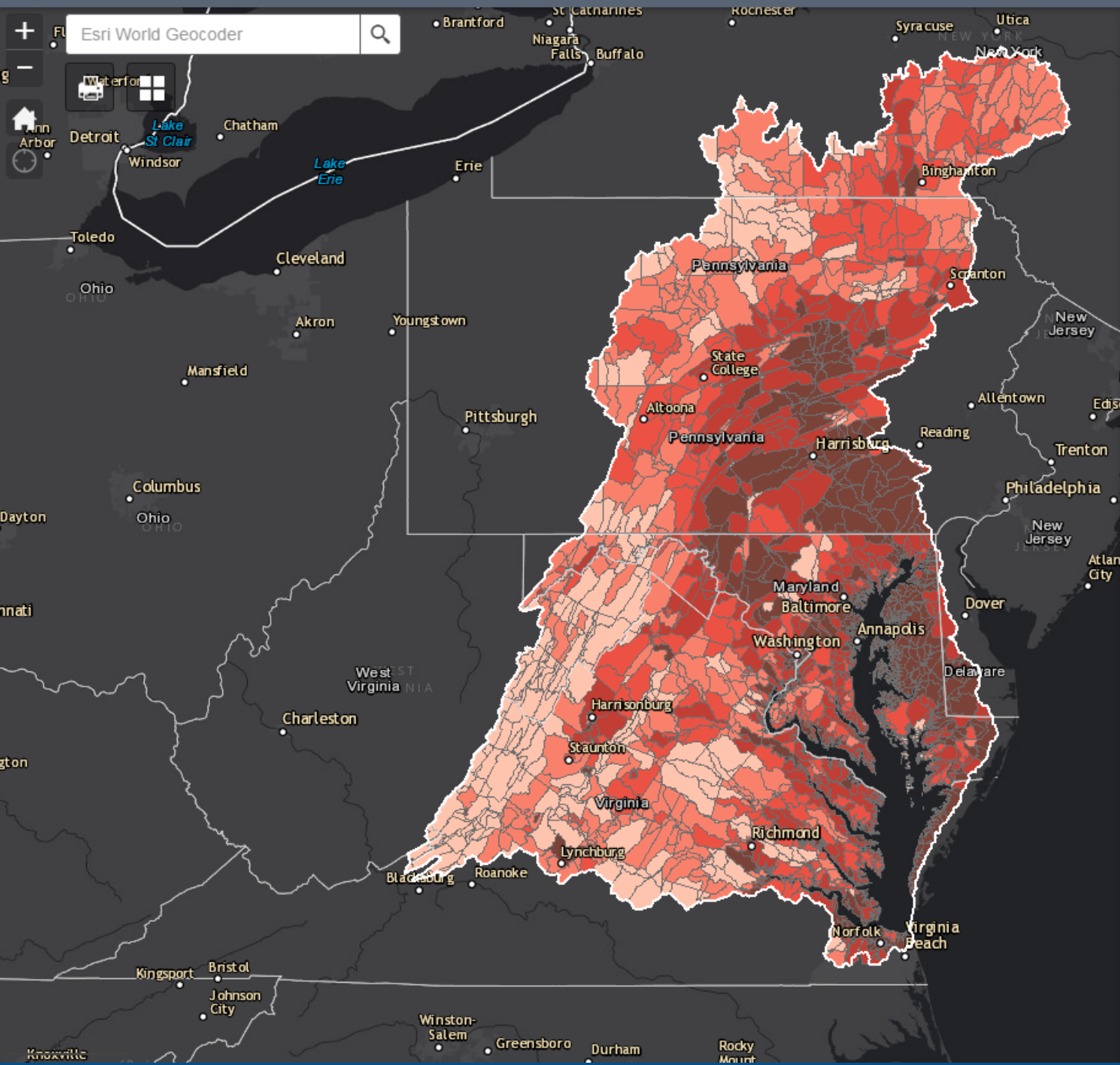
DO All Forest Deep Channel



### Deep Channel Dissolved Oxygen % Nonattainment

#### All Forest

- > 30
- > 20 to 30
- > 10 to 20
- > 5 to 10
- > 0 to 5
- 0



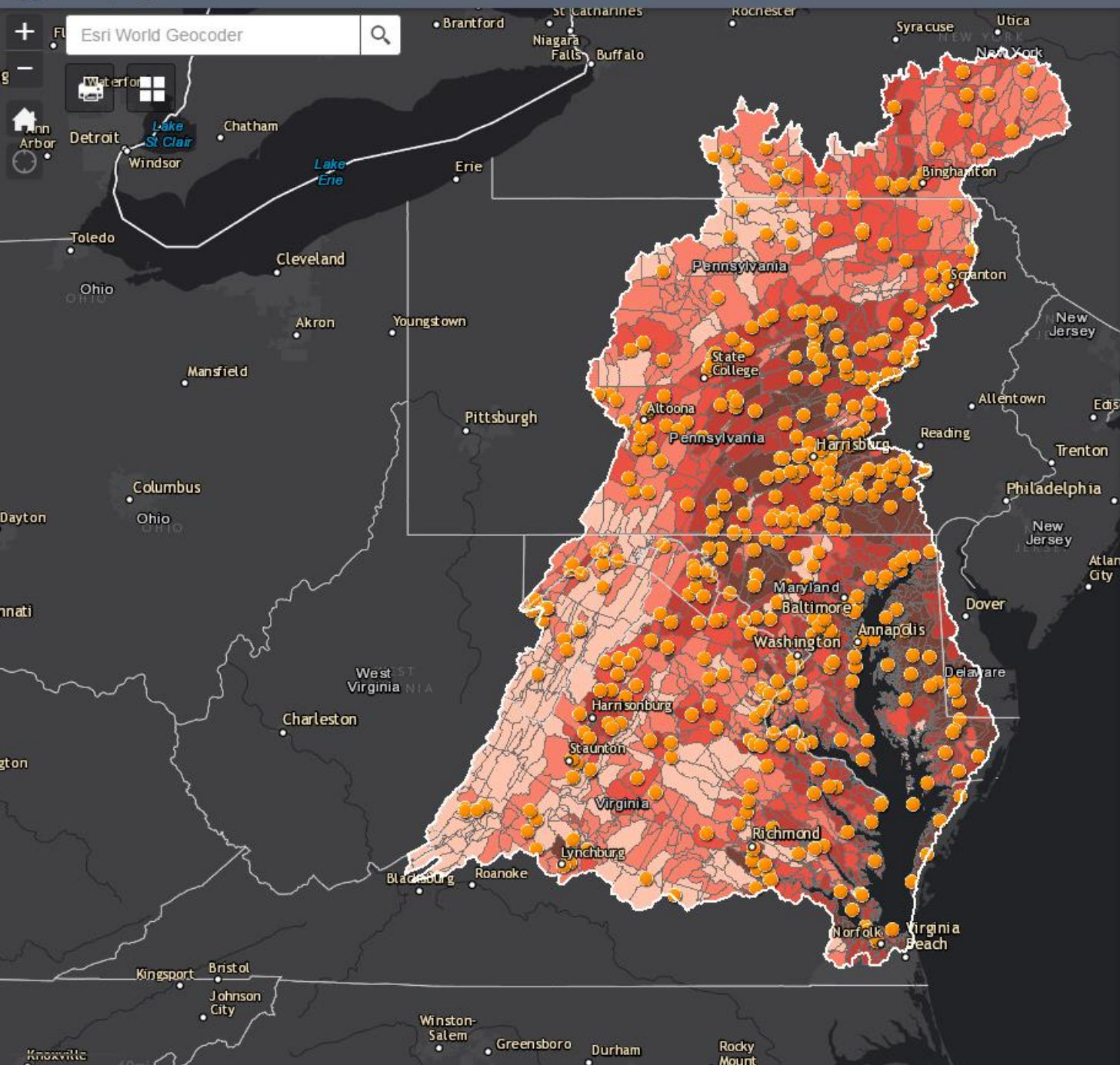
## Layer List

### Operational Layers

- ▶ ☒ Detailed Streams (scale dependent)
- ▶ ☒ Chesapeake Watershed Boundary
- ▶ ☒ World Boundaries and Places
- ▶ ☒ Modeling Reference Layers
  - ▶ ☐ Wastewater Facilities
  - ▶ ☐ Counties
  - ▶ ☐ 12-Digit Watersheds
  - ▶ ☐ MS4
  - ▶ ☐ P5.3 Land-River Segments
  - ▶ ☐ P5.3 Land Segments
  - ▶ ☐ P5.3 River Segments
  - ▶ ☐ Tributary Strategy Basins
  - ▶ ☐ CSS
  - ▶ ☐ Federal Facilities
  - ▶ ☐ P6 Land-River Segments
  - ▶ ☒ Ranging Scenarios

N 1985 All Else





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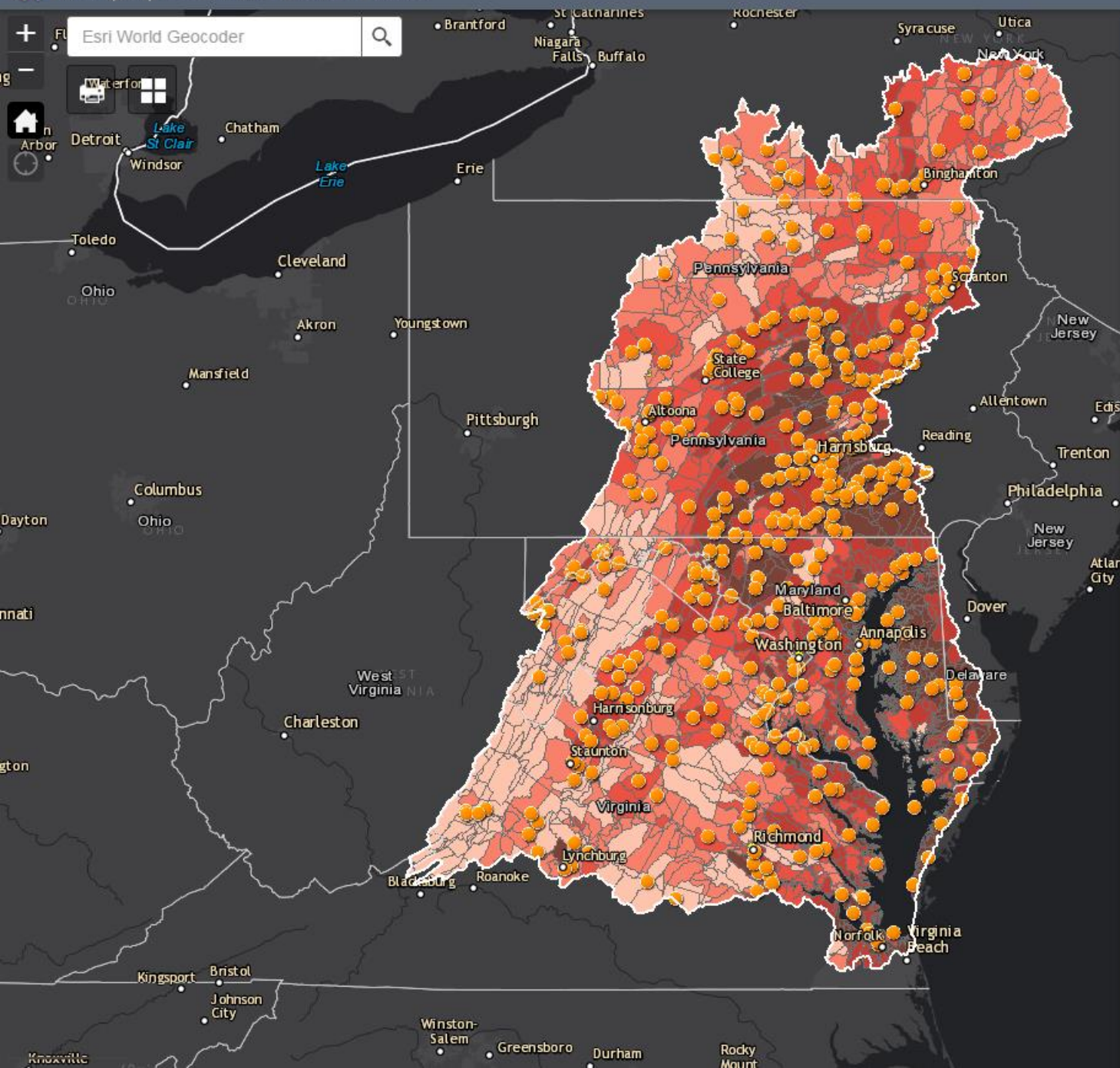
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WWTP





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WWTP

CSO

**OTHER IDEAS WELCOME!**