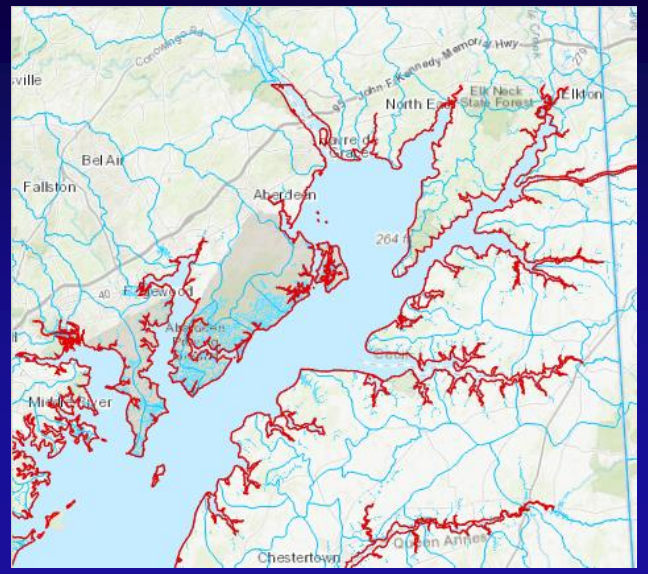
High-Resolution Land, Tidal Water, and Tidal Wetland Boundaries to Inform the Phase 7 Models

Modeling Workgroup Quarterly Review
July 6, 2021

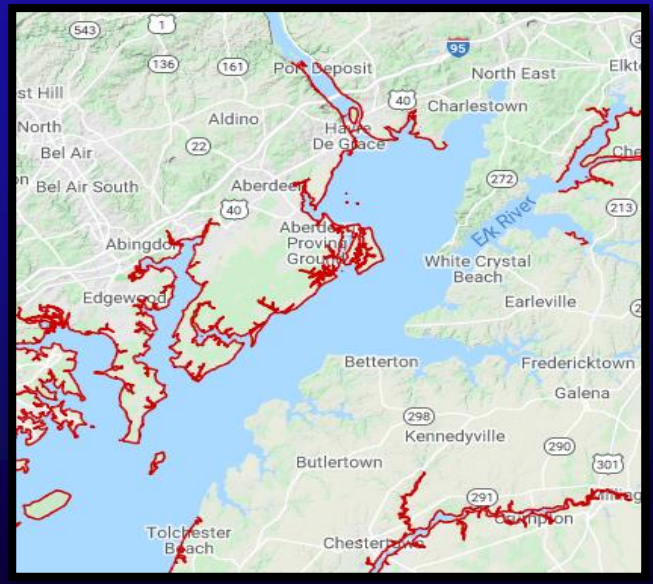
Tidal Bay

- Evaluated various tidal shoreline layer candidates
- Likely to continue use of CBP's high resolution shoreline layer, derived from 1990s NOAA data.
- NOAA CUSP is a good candidate for the future, but doesn't currently have complete Chesapeake coverage

CBP High Resolution Shoreline



NOAA CUSP



Tidal Wetlands

- A tidal wetlands layer is being created by the CBP Land Change Modeling Team, derived from 2017 1m imagery

- Imagery may have been collected during a variety of tidal stages

Nanticoke River in Wicomico County, MD

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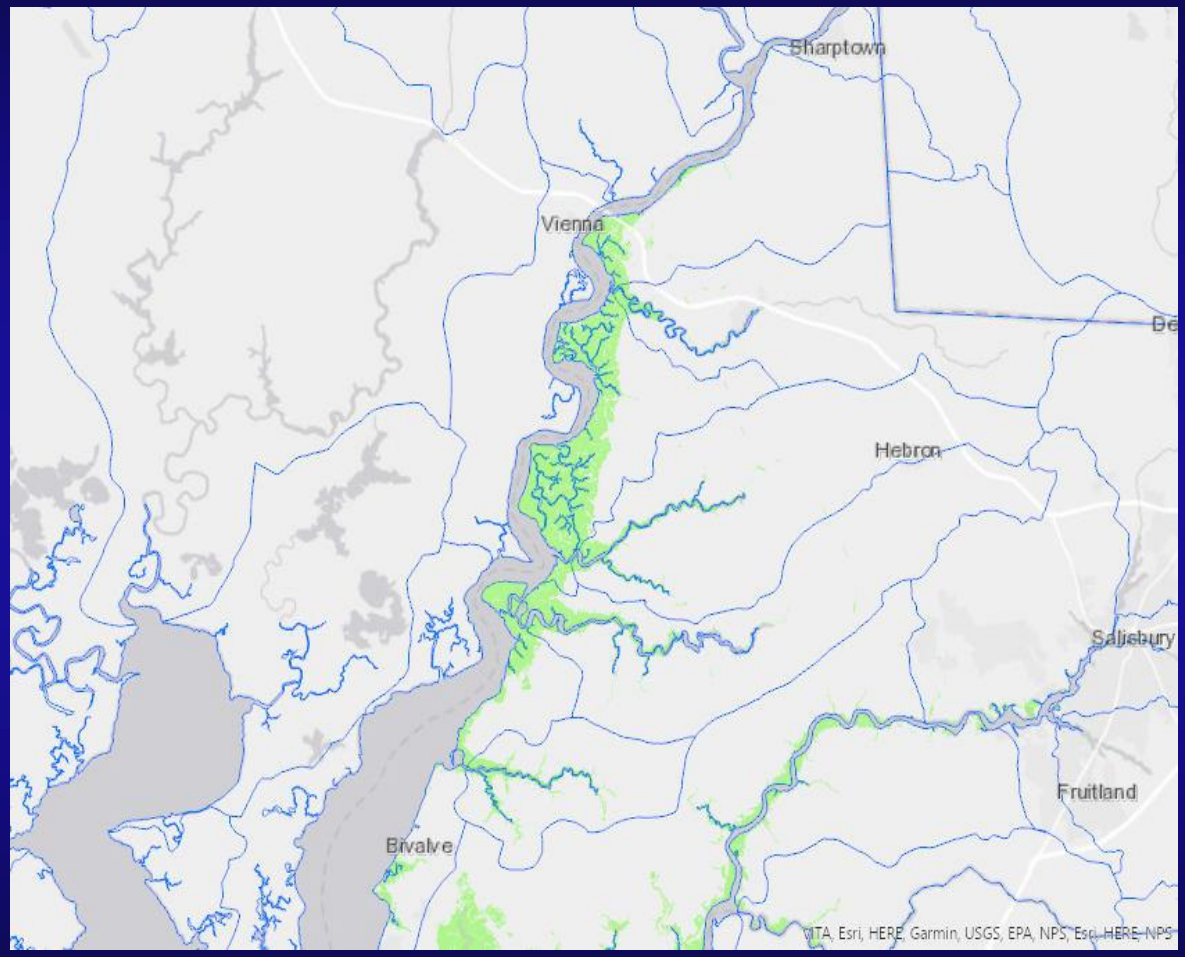
Modeling Segmentation

- Tidal wetland area will be calculated for each modeling segment

- Phase 7 segmentation will be based on NHD catchments -- much higher resolution than Phase 6 segmentation

Phase 6 segmentation with tidal wetlands



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NHD V2 100K catchments with tidal wetlands