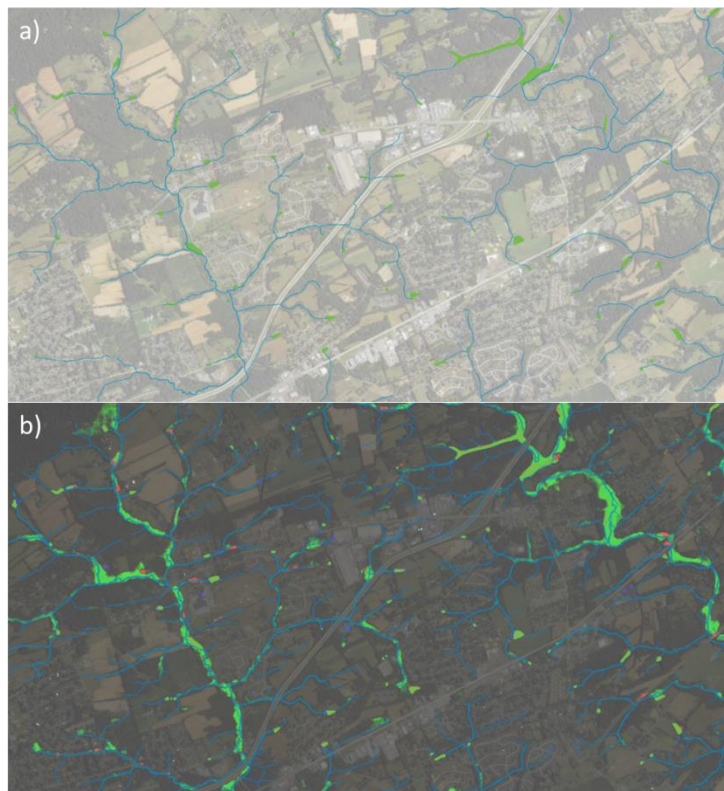


Non-Tidal Wetland Mapping Fact Sheet

Summary: The Chesapeake Bay Program and the Chesapeake Conservancy used deep-learning (AI) to automatically map wetlands in the Chesapeake Bay watershed. This system can be used to quickly, and repeatedly create updated, accurate wetland data that are needed for environmental compliance and monitoring. Data produced by this new method are already being used to update National Wetland Inventory data, as well as to improve environmental compliance.



Facts:

The AI model was over 90% accurate in delineating five different wetland classes

Only free, publicly available data are needed as inputs, so the model can be used anywhere.

The system can map wetlands at 1 meter resolution within a county-sized area in 3 – 6 hours

New wetland data has been produced for 14 counties spanning all states and physiographic provinces within the CBW.