

Opportunity Overlay Layers

| Category | | |
|--------------------|--|--|
| Climate | | |
| | 3 foot Sea level Rise Scenario | This data represents a 3 ft sea level rise scenario based on NOAA's sea level rise prediction. Data obtained from NOAA's Sea Level Rise Viewer (https://coast.noaa.gov/digitalcoast/tools/slr). Predictions are presented in 1 ft increments and 3 ft sea level rise was chosen for this application based on climate change predictions. 0 feet sea level rise scenario area subtracted from 3 foot sea level rise scenario to identify areas of potential inundation greater than current condition |
| | 100 year flood plain boundary | The floodplain boundary layer was created by processing, querying and combining shapefiles from the National Flood Hazard Layer (NFHL) and the Soil Survey Geographic database (SSURGO). The NFHL is based on Flood Insurance Rate Map (FIRM) databases produced by the Federal Emergency Management Agency (FEMA). The SSURGO database is composed of digital soils data produced and distributed by the Natural Resources Conservation Service (NRCS). NFHL data for all states that intersect the Chesapeake Bay Watershed was accessed through the FEMA Flood Map Service Center. The data was then queried according to the 1-percent-annual-chance flood event primary risk classification (e.g., the 100-year flood zone). |
| | Stream Temp Trends | This map shows the change in water temperature at 129 stream gauges across the Chesapeake Bay region from 1960 to 2014. Red circles show locations where temperatures have increased; blue circles show locations where temperatures have decreased. Filled circles represent sites where the change was statistically significant. |
| | Marsh Migration considering 3 foot sea level rise scenario | To come Data to be obtained via NOAA Marsh Viewer |
| Landuse | | |
| | Development Pressure | To come from Phase 6 LU data... (Peter Clagget et. al) |
| Diversity | | |
| | Greater than 50% Low Income Population | This data is compiled from EPA's EJScreen Platform. Low income is defined as a Ratio of Income to cost of living that is less than 2. Data is presented in this map as census block group with a percentage of population that is low income >= 50%. |
| | Greater than 37% Minority Population | This data is compiled from EPA's EJScreen Platform. Minority population definition is defined as all other ethnicities other than Caucasian. Data is presented in this map as census block group with a Minority Population Percentage >= 37%. 37% chosen to mirror national average of minority populations. |
| Stewardship | | |
| | Current Public Access Sites | Public Access Sites 2011 represents those locations that provide public water access opportunities along the tidal shoreline of the Chesapeake Bay and its tributaries and along non-tidal waterways of stream order 5 or greater. It represents an update to the Chesapeake Bay Program's public access data base. The 2011 data was collected, in part, to establish a baseline against which the President's Executive Order Strategy Outcome of establishing 300 new sites by 2025 could be tracked. |
| | Potential Public Access Sites | The potential public access site dataset was originally developed through public input in 2010. Suggestions from the public were vetted by state agency partners. State agencies have also contributed potential sites as part of an annual data collection effort. As sites are developed, records are added to the Public Access Sites dataset, and removed from this dataset. The key column in this dataset is PlanCategory: a value of 1 indicates that the site has been vetted, and is planned for development; 2 indicates that the site has been vetted for initial feasibility, but no additional planning has occurred; 3 indicates that the site may require additional research for feasibility before additional planning can occur. |
| | Protected Lands | From Chesapeake Bay Program- Combines Protected Areas Database with authoritative state environmental agencies data. |
| Habitat | | |
| | Current Brook Trout Only Catchments | NHDv2 Catchments that are classified as Brook Trout Only catchments by the This Fish Habitat Decision Support tool. This provides resource managers and the general public access to data, models, and prioritization tools for use with multiple fish habitat assessments performed for specific regions across the United States This tool was developed with funding from the United States Fish and Wildlife Service and the Midwest Fish Habitat Partnerships. Additional data and models were developed through funding and coordination by the North Atlantic LCC, the Atlantic Coastal Fish Habitat Partnership, and The Nature Conservancy. |