

<u>Data Type</u>	<u>Name</u>	<u>Brief Description</u>
Physical	Topo Bathy	Seamless topographic/bathymetric DEM for coastal Virginia.
Physical	Fetch	Average and maximum fetch for shoreline segments.
Physical	Shoreline Erosion	Annual erosion rates for each 10 m segment of shoreline in Virginia.
Physical	Wave Height	Modeled wave heights along the shoreline for average and storm conditions.
Physical	Bank Height/Slope	LiDAR/inventory derived bank height and bank slope along the shoreline.
Physical	Structure Shoreline	Comprehensive inventory of shoreline structures (armoring, docks, piers, etc.) for all of Coastal Virginia.
Physical	Land Use	Classified land use (1-m resolution) for all of Virginia.
Physical	Projected Land Use	The USGS's FORE-SCE model was used to produce land-use and land-cover (LULC) projections for the conterminous United States. Available out to 2100.
Physical	Salinity	Salinity (mean, min, max) for surface, water column, or benthic layers as modeled for present and future conditions using SCHISM.
Physical	Air Temperature	Air temperature records obtained from weather stations for historical values, and climate models for future projections.
Physical	Water Temperature	Current and projected water temperatures throughout the Bay.
Physical	Precipitation	Current and projected monthly and annual rainfall totals across Virginia.
Physical	Roads	Road data comes from a variety of sources, including VDOT, Open Street Map, and Tiger.
Physical	Sea Level Rise	Projected water levels out to 2100 using the latest sea level rise trends in the Bay. Available for MLLW to MHHW.
Physical	Soils	Soil physical characteristics (e.g., %sand, ksat, etc.) for the US. Available in SSURGO mapping units.
Physical	TSS/Turbidity	Total Suspended Solids and Turbidity data from the Virginia Estuarine and Coastal Observing System.
Physical	State Conserved Land	The database includes state, federal, private, and locally managed lands and conservation easements.
Physical	Physical Vulnerability	PVI provides a broad perspective on the vulnerability of the Tidewater region, creating a composite measure of general flood impact rather than the threat of any one particular storm track.

Physical	Dam Data	Dam locations throughout Virginia.
Physical	Culverts	Actively growing database of culverts maintained by VDOT.
Physical	Aquatic Connectivity	NAACC and SARP maintain databases of barriers to aquatic connectivity that may be useful for assessing impacts to anadromous fish migration and breeding.
Habitat	Beach	Areal extent of beaches throughout Coastal Virginia.
Habitat	Dune	Dunes were derived from the natural and nature based features (NNBF) dataset developed by CCRM.
Habitat	Riparian Land Use	Classified land use within the riparian zone along shorelines in Virginia.
Habitat	Trees	Individual tree locations derived from LiDAR in Hampton Roads.
Habitat	Tree Fringe	Presence or absence of riparian tree fringe along the shoreline for all of Virginia.
Habitat	Forest and Tree Cover	Derived from the Land Cover dataset.
Habitat	Maritime Forest	Mapped extents of maritime forests along Virginia's coast.
Habitat	NWI	The US FWS National Wetlands Inventory (NWI) is a publicly available resource that provides detailed information on the abundance, characteristics, and distribution of US wetlands.
Habitat	TMI	Tidal Marsh Inventory for all of Virginia. Areal extent of all tidal marshes, as well as community composition.
Habitat	Marsh Migration	Projected layer of future marsh extent as a result of sea level rise incorporating upland land use, erosion on the waterward edge, and barriers to inland migration.
Habitat	Migration Corridors Present and Future	Landscape corridors are strips of natural cover that traverse a matrix of largely anthropogenic land covers to connect cores ranked in the Ecological Cores data layer.
Habitat	WetCat	The Wetland Condition Assessment Tool (WetCAT) is a spatially-specific, interactive, online tool that provides a water quality and habitat condition assessment for each individually mapped nontidal wetland in Virginia (approximately 196,000 polygons and over 1.2 million acres).
Habitat	Oysters	Available data include Baylor ground extents, aquaculture leases, and public oyster reefs.
Habitat	Seagrass beds, SAV	Annual SAV areal extent from 1989 to present digitized from aerial imagery by the VIMS SAV Program.
Habitat	Anadromous habitat	Confirmed and potential anadromous fish habitat within Virginia waters. These datasets identify stream reaches that are confirmed and that are potentially used migration pathways, spawning

grounds, or nursery areas for anadromous fish. The species included in this assessment are alewife, blueback herring (*Alosa aestivalis*), American shad (*A. sapidissima*), hickory shad (*A. mediocris*), striped bass (*Morone americana*), and some populations of yellow perch (*Perca flavescens*). Certain time-of-year restrictions apply to areas used by anadromous fish. Data associated with each reach include stream name, reach length, species confirmed in the reach, watershed, and upstream boundary. Upstream boundaries were established at impediments or where habitat became unsuitable.

Species	Flora and Fauna	Broad regions of habitat for various RTE species.
Species	Fauna	Occurrence and count records for a variety of species, including RTE species.
Species	Birds	These are additional bird observations conducted by Bryan Watts and the Center for Conservation Biology.
Species	Terrapins	Point counts of Diamondback Terrapins throughout Virginia in 2012 and 2013.
Species	eBird	eBird transforms a global birding community's passion for birds into critical data for research, conservation, and education. By building tools that engage the global birding community, eBird gathers unprecedented volumes of information on where and when birds occur in the world
Social	Buildings	Footprint of each building in Virginia.
Social	Social Vulnerability	Social vulnerability scores for coastal regions of Virginia, as assessed by a variety of factors including income, age, and access to services.