

Shoreline Assessment Mapper (SAM)

Description of Data Layers

General Reference

Localities	Locality boundary lines
Locality labels	Locality names
Permit sites	GPS points for previous JPA permit sites with VIMS reports, 2000-present, does not include private piers or non-tidal wetlands, use i tool for permit number and hyperlink to scanned permit records
Shoreline	CCRM digitized shoreline
Hydrology	National Hydrography Dataset with stream segments or reaches in the surface water drainage system; use i tool to find stream characteristics
Bathymetry	Bottom depth contour polygons; < 0.5 m, 0.5-1m, 1-2m, >2 m
National Wetlands Inventory	Various wetland polygons from US Fish & Wildlife Service inventory, use i tool to find wetland code

Shoreline Conditions

Bank height	Estimated bank height from CCRM Shoreline Inventory (dates vary by locality); 0-5 ft, 5-10 ft, >10 ft; use i tool to find height and length
Bank erosion	Observed erosion condition from CCRM Shoreline Inventory (dates vary by locality); high, low, transitional, undercut; use i tool to find erosion type and length
Bank cover	Observed bank vegetation cover from CCRM Shoreline Inventory (dates vary by locality); bare, partial, total; use i tool to find cover type and length
Tidal Marsh Inventory	Vegetated wetlands mapped by CCRM in 1970's, digitized in 1990; use i tool to find tidal marsh type; use i tool to find wetland code
Marsh buffer	Observed tidal marsh from CCRM Shoreline Inventory (dates vary by locality); use i tool to find length
Beach buffer	Observed sand beach from CCRM Shoreline Inventory (dates vary by locality); use i tool to find length
Other beaches	Observed sand beach from VIMS Shoreline Studies Program video inventory of non-jurisdictional beaches in 2005; use i tool to find observed beach conditions

Shoreline Conditions (continued)

Shoreline structures	Observed stabilization structures from CCRM Shoreline Inventory (dates vary by locality); includes breakwater, bulkhead, dilapidated bulkhead, groin field, marina, marsh toe revetment (marsh sill), and others; use i tool to find date surveyed, structure type and length
Shoreline access structures	Observed riparian access structures from CCRM Shoreline Inventory (dates vary by locality); includes boathouse, dock, outfall, ramp; use i tool to find structure type
Intertidal flats	Non-vegetated tidal flats; NWI wetlands with E2US code (Estuarine, Intertidal, Unconsolidated Shore)

Subaqueous Conditions

SAV habitat	All SAV beds from previous 10 years of VIMS inventory in one combined polygon (1998-2008)
SAV sanctuary in Chincoteague Bay	Special designated area for SAV protection on seaside Eastern Shore
Baylor grounds	Public oyster beds, rocks and shoals mapped by VMRC
Oyster reefs	Oyster restoration reefs, updated periodically in collaboration with VMRC Conservation and Replenishment Program http://www.mrc.state.va.us/replenishment.shtm
Open water	Subaqueous areas channelward of CCRM Shoreline data layer

Miscellaneous

Not surveyed	Locations without CCRM Shoreline Inventory
USGS Topos	Digital USGS quadrangle map mosaic
2006-2007 VBMP imagery	Virginia Base Map Program aerial photograph mosaic, must zoom in and check box to view aerial image
Base	Reference map that appears when map viewer is opened