

Maryland Coastal Bays Program: Notes from the Field

Water, Water Everywhere

Welcome to the Maryland Coastal Bays Program's (MCBP) virtual learning program *Notes from the Field*. This Monday's "Bulk Resource" page is on WATER. Provided is a conglomeration of relevant materials from credible sources for anyone to use as a knowledge resource on this subject. The majority of what we have shared is Maryland-based resources, and we encourage you to further research on the subject as there countless other fantastic sources. The resources we have compiled are broken down into three categories; relevant websites, videos, and activities & lessons.

MCBP exists to protect and conserve the waters and surrounding watershed of Maryland's five Coastal Bays; Assawoman, Isle of Wight, Newport, Sinepuxent, and Chincoteague. Those five bays and their tributaries total over 71,000 acres of physical water. Although this makes up only 37% of the Coastal Bays watershed, water directly affects the other 118,000 acres of farmland, communities, wetlands, and forests. The following resources cover a wide range of information pertaining to water itself, but also to anything it impacts (or impacts it) in our watershed; flora and fauna, erosion, human and soil health, water quality, debris, resiliency, flooding, and more.

Relevant Websites

Organization	Description of Resource	Link	Who
Maryland Coastal Bays Program	Stormwater, Water Quality, Septic in the Maryland Coastal Bays and MD Coastal Bays 2018 Report Card	mdcoastalbays.org/bayissues-stormwater-management mdcoastalbays.org/bayissues-water-quality mdcoastalbays.org/bayissues-septic mdcoastalbays.org/content/files/2018-Maryland-Coastal-Bays.pdf	Middle School - Adults
Environmental Protection Agency	ArcGIS Map of the Maryland Coastal Bays, describes National Estuary Programs and bays issues	https://www.arcgis.com/apps/MapJournal/index.html?appid=ba6e859c3ce14ad4a8fb90985a083f7d	Middle School - Adults



Alliance for the Chesapeake Bay	Reduce your stormwater - downspout disconnect	http://www.stormwater.allianceforthebay.org/take-action/installations/downspout-disconnect	Adults
Environmental Protection Agency	Soak up the rain - rain gardens	https://www.epa.gov/soakuptherain/soak-rain-rain-gardens	All ages
Natural Resources Defense Council	Six ways you can help keep our water clean	https://www.nrdc.org/stories/6-ways-you-can-help-keep-our-water-clean	All ages
Maryland Department of Natural Resources	Eyes on the Bay- resource for tidal water quality data in MD	http://eyesonthebay.dnr.maryland.gov/	High School - Adult
Maryland Department of Natural Resources	Chesapeake and Coastal Bay Life Guide- look up algae, insects, fish, invasives, and more found in MD's bays	https://dnr.maryland.gov/waters/bay/Pages/cblife/home.aspx	All ages
National Oceanographic and Atmospheric Administration	Marine Debris Program: resource for issue definition, research, response, activities, etc.	https://marinedebris.noaa.gov/discover-issue/impacts	All ages
National Geographic Kids	Kids v. Plastics: provides younger ages with understandable information and ways to minimize plastic use.	https://kids.nationalgeographic.com/explore/nature/kids-vs-plastic/	K - Middle

Videos

Organization	Description of Resource	Link	Who
Assateague State Park, MCBP, MD DNR	Assateague Island Living Shoreline Project	https://www.wmdt.com/2018/07/assateague-state-parks-shoreline-resiliency-project-nearly-complete/	Adult
Woods Hole Oceanographic Institute/Sea Grant	NOAA Live! Webinars for students- talk live with a scientist	https://seagrant.whoi.edu/suggested-educational-resources-for-use-during-school-closures/webinars-noaa-live/	Grades 2 - 8



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Ocean Protection Advocacy Kids	Live & Recorded Webinars on: ocean chemistry, horseshoe crabs, ocean circulation, & marine protected areas	https://opakedu.org/webinars	K - 12
NOAA Fisheries	Restoring Fisheries Through Habitat Restoration- relatable some MCBP restoration projects Other videos on: saltwater fishing, sharks, Atlantic salmon	https://videos.fisheries.noaa.gov/detail/videos/greater-atlantic-region/video/3476833193001/restoring-fisheries-through-habitat-restoration?autoStart=true&page=1	Adults
Sustainable Earth	How Wolves Change Rivers: visualizes interconnectedness of a biotic and abiotic resources	https://www.youtube.com/watch?v=ysa5OBhXz-Q	Middle - Adults
Crash Course Kids	H2O Facts	https://www.youtube.com/watch?v=jNOc7mHr5gl	Elementary
MooMooKids	What is an Estuary?	https://www.youtube.com/watch?v=emVYg7dSaA	Elementary

Activities and Lessons

Organization	Description of Resource	Link	Who
Maryland Coastal Bays Program	Wetlands Lesson Packet - 5 lessons spanning 2 to 3 grades each	https://mdcoastalbays.org/files/pdfs_pdf/World_Wetlands_Day_Activity_Guidebook.pdf	K - 12
Project WILD - Aquatic	Lesson on the evolution of fishing and the effects of technology	https://www.fishwildlife.org/application/files/1915/2518/3374/Aquatic_WILD_Sample_Net_Gain_Net_Effect.pdf	Grades 6 - 8
BRIDGE	Ocean science education: coastal erosion,	http://masweb.vims.edu/bridge/index.cfm	All ages
NOAA Marine Debris	Activities, curriculum, fact sheets, emergency response guides for marine debris	https://marinedebris.noaa.gov/activities-and-curricula	All ages
National Environmental Education Foundation	Water Quality Backyard Activity Guide: DIY	https://www.neefusa.org/resource/water-quality-backyard-activity-guide	All ages



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	backyard water quality tests		
Stroud Water Research Center	WikiWatershed: model and monitor your watershed using chemical, physical, and biological parameters	https://wikiwatershed.org/?fbclid=IwAR3yqm-6XiDuKyo_PEOg-8al29w7yC3RP7SaEXginisObehhzTv3pg7OS_g	All ages
United States Geological Survey	Coloring Book- Journey of a Water Droplet	https://water.usgs.gov/H2O_ColoringBook.pdf	Toddler - Elementary
National Environmental Education Foundation	Watershed Sleuth Challenge: learn about watersheds including the Coastal Bays in a lesson	https://www.neefusa.org/watershed-sleuth	Grades 3 - 5
Mote Marine Laboratory	Online classrooms, virtual storytime, interactive virtual experiences, crafts, hikes with naturalists	https://mote.org/pages/education/education-online	K - Lifelong learners



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