



Virginia Coastal Zone
MANAGEMENT PROGRAM

3rd Marine Debris Summit

June 19, 2019



NEWS

Home Video World US & Canada UK Business Tech Science Stories Enter



CBS NEWS / April 22, 2019, 8:47 AM

Earth Matters: Devices working around-the-clock to combat ocean pollution

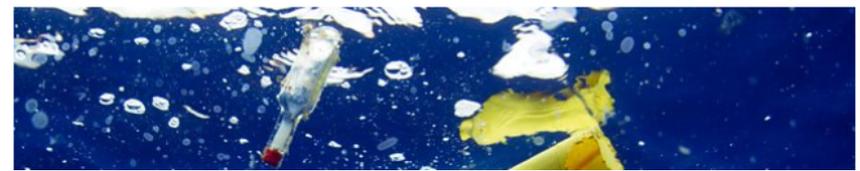
Science & Environment

Can you spot ocean plastic from space?

By Jonathan Amos
BBC Science Correspondent, Vienna

12 April 2019

f Share Tweet Reddit Flipboard Email



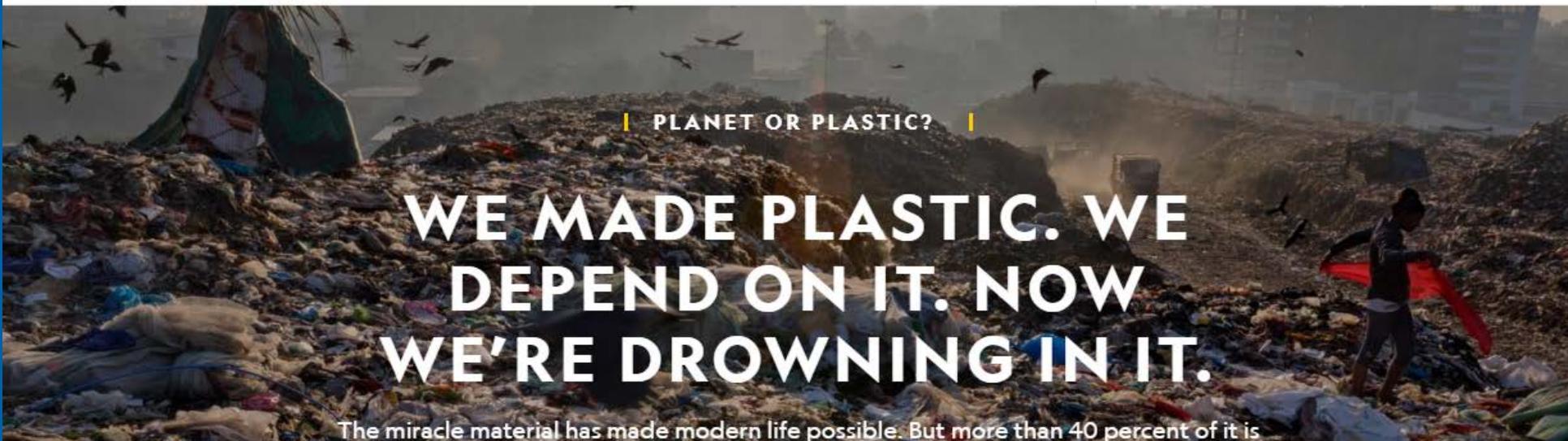
NATIONAL GEOGRAPHIC

f Share / Tweet / Reddit / Flipboard / Email

Rising sea levels and coral bleaching are just some of the many factors that affect the diverse marine life in Australia. So is ocean pollution. However, there is a group of people hard at work trying to find a viable solution.

Recent research shows the problem is worse than previously thought. Nearly 18 billion pounds of plastic ends up in our oceans every year. By 2050, researchers estimate there could be more plastic in oceans by weight than fish, unless something changes.

In the waters around the capital city of Sydney, a device called a Seabin is working around-the-clock slowly filtering out debris, in marinas, ports and yacht clubs.





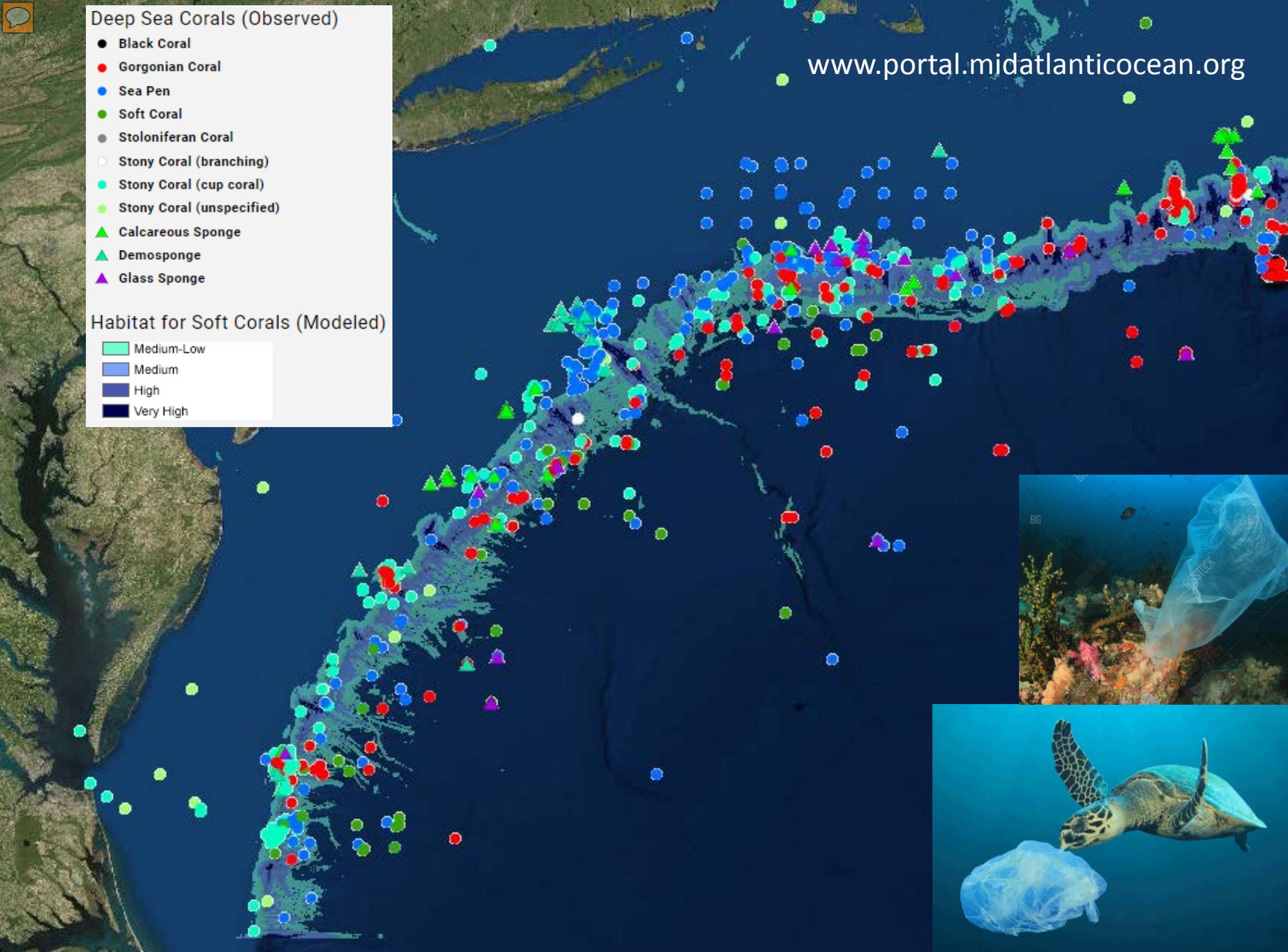
Deep Sea Corals (Observed)

- Black Coral
- Gorgonian Coral
- Sea Pen
- Soft Coral
- Stoloniferan Coral
- Stony Coral (branching)
- Stony Coral (cup coral)
- Stony Coral (unspecified)
- ▲ Calcareous Sponge
- ▲ Demosponge
- ▲ Glass Sponge

Habitat for Soft Corals (Modeled)

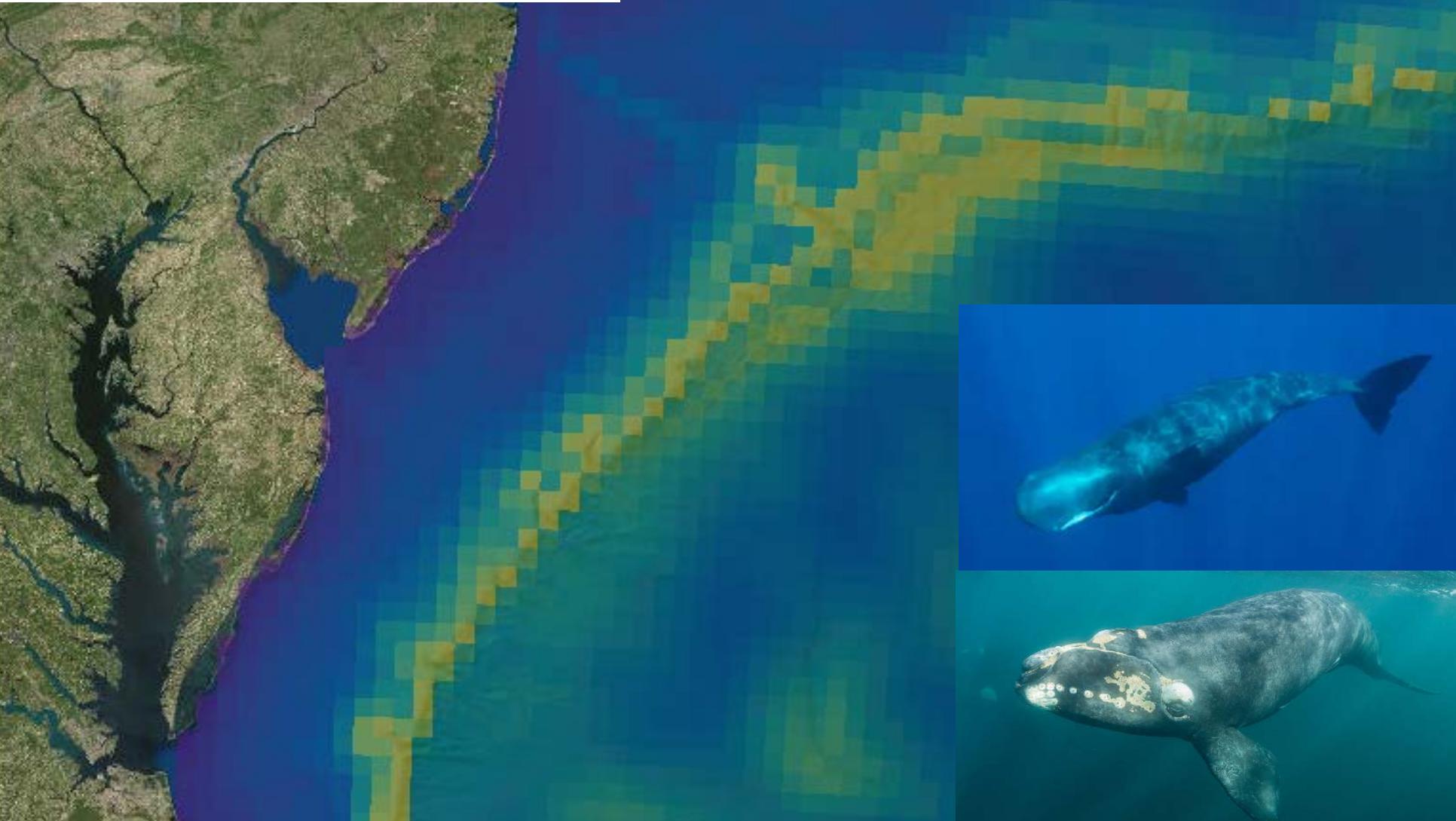
- Medium-Low
- Medium
- High
- Very High

www.portal.midatlanticocean.org



- ALL CETACEANS: ABUNDANCE
- ALL CETACEANS: CORE ABUNDANCE AREA - MID-ATLANTIC SCALE
- ALL CETACEANS: SPECIES RICHNESS
- SPECIES OF CONCERN: ABUNDANCE

www.portal.midatlanticocean.org



In 2009

MARCO

MID-ATLANTIC REGIONAL
COUNCIL ON THE OCEAN



1. Protect Key Ocean Habitats
2. Improve Water Quality
3. Adapt to Climate Change
4. Promote Renewable Offshore Energy

16 U.S.C. § 1456b. Coastal Zone Enhancement Grants (Section 309)

(a) "Coastal zone enhancement objective" defined

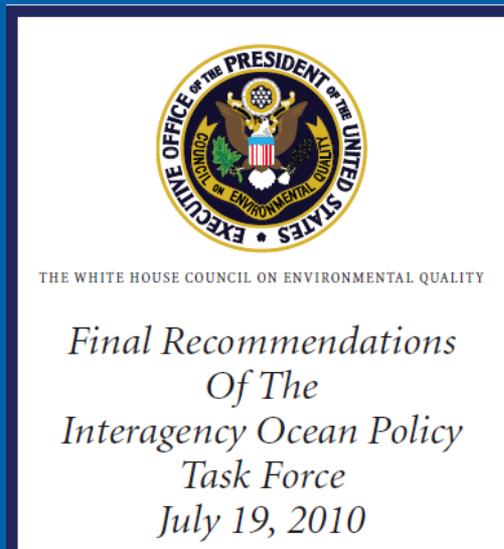
For purposes of this section, the term "coastal zone enhancement objective" means any of the following objectives:

(4) **Reducing marine debris** entering the Nation's coastal and ocean environment by managing uses and activities that contribute to the entry of such debris.

(1) Subject to the limitations and goals established in this section, the Secretary may make grants to coastal states to provide funding for development and submission for Federal approval of program changes that support attainment of one or more coastal zone enhancement objectives.

2010: National Ocean Policy Established by Presidential Executive Order

“to coordinate and implement regional ocean planning with state, federal, tribal, and Fishery Management Council representatives.”



2011 – 2020

Two, 5-Year CZM Section 309 Strategy Funding Streams for Virginia Ocean & Marine Debris Plans





Feb 2013 1st Virginia Marine Debris Summit

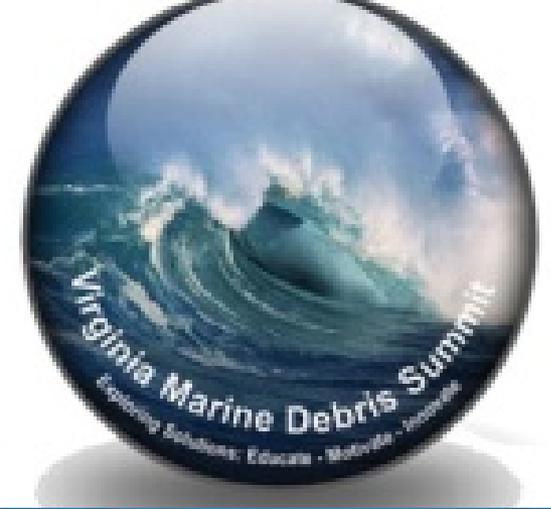


Photo by Virginia CZM Program

Oct 2014 Virginia Marine Debris Reduction Plan Published

- Created Leadership team
- Conducted Workshop, Surveys & Interviews
- Developed near, mid and long term strategies

October 2014

Developing a Marine Debris Reduction Plan for Virginia

Written and prepared for the Coastal Zone Management Program by:

Katie Register, Executive Director, Clean Virginia Waterways

Under the direction of:

Laura McKay, Manager, Virginia Coastal Zone Management Program

Stakeholder facilitation and research by:

Todd Janeski, Virginia Commonwealth University

Angela Neilan, Community Involvement Specialist, Virginia Department of Environmental Quality



Reduction Plan Goals

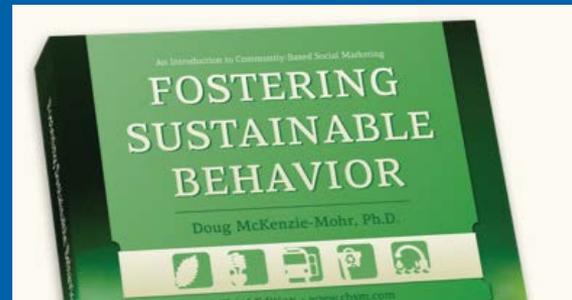
1. Provide leadership and foster coordinated efforts
2. Develop prevention strategies
3. Develop interception strategies
4. Develop innovation strategies
5. Remove debris



Photo by K. Register

Reduction Plan Techniques to Apply to Strategies

1. Behavior change
2. Collaboration
3. Research
4. Funding
5. Regulation & enforcement



Leadership Team: Bang for Buck Results



Photo by VA CZM Program



FY13 and 16 NOAA Grants: Monitoring Marine Debris in Virginia's Coastal Zone



January 2014 through June 2019

FY14 NOAA Grant: Social Marketing Campaign to Reduce Balloon Releases



March 2016 2nd Virginia Marine Debris Summit

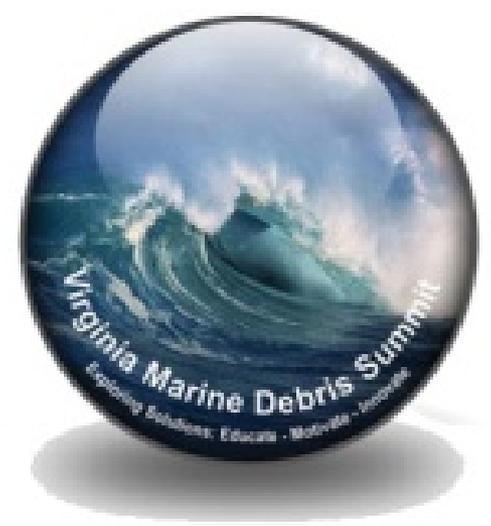


Photo by Virginia CZM Program

Dec 2016



➤ **HEALTHY OCEAN ECOSYSTEM**
Action 4 – Develop a regionally appropriate strategy for marine debris reduction.

Marine debris is a problem that threatens the health of Mid-Atlantic ocean ecosystems and human health through the bioaccumulation of plastics in the marine food web, and in particular the ingestion of plastic particles by commercially sought species. Its resolution requires collaboration across levels of government and with the public and partners. The purpose of this action is to build on efforts of NOAA's Marine Debris Program,⁴³ EPA's Trash-free Waters Program, and other existing programs and partnerships in the region to develop regionally appropriate and feasible marine debris reduction strategies that address key issues such as: debris from storms, derelict fishing gear, plastic food containers, microplastics, plastic bottles and bags, balloons, and cigarette butts. Strategies may include source reduction, coordinated cleanups, regionally applicable public outreach, education, and social marketing campaigns aimed at behavior change.

RPB lead entities: Virginia and EPA

Steps to accomplish this action include:

- A. Identify existing efforts and prioritize options for regional strategies for marine debris reduction, which may include: (1) prioritizing sources and problem areas; and (2) identifying stakeholders and developing a regional marine debris shoreline monitoring program that meets national standards, using criteria such as political and social feasibility, benefits to wildlife and human safety, and cost. Include outreach for improved source controls and link to efforts underway by estuary programs. Consider a regional cost-benefit analysis on full lifecycle costs of plastics

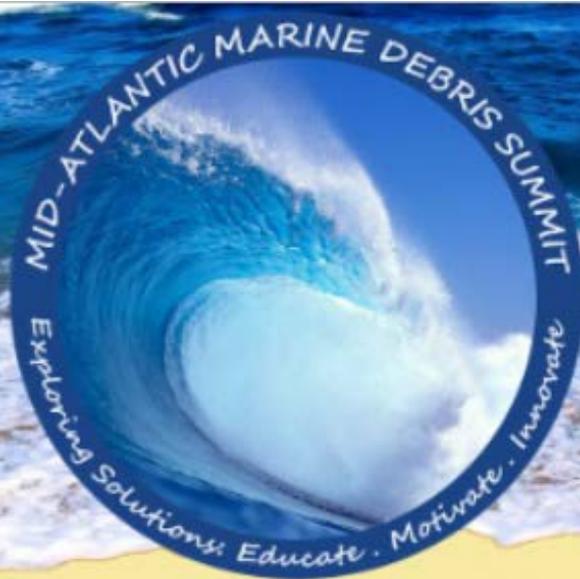
Mid-Atlantic Marine Debris Work Group

FY18 MARCO applied for NOAA Grant: Mid-Atlantic Regional Balloon Release Reduction Campaign - \$145k received



August 2018 through 2021





When

Monday, **June 17, 2019**

1:00 pm (check-in opens at noon)
through

Wednesday, **June 19, 2019**

1:00 pm

Where

George Mason University
Arlington Virginia Campus (Founders Hall)

Mid-Atlantic Marine Debris Summit

Join researchers, educators, policy-makers and businesses at this collaborative summit as we explore Mid-Atlantic regional solutions to decrease litter and marine debris.

The goals of this summit are to inspire and empower our partners in marine debris reduction, and to take the first steps in creating a marine debris reduction plan for the Mid-Atlantic.

3rd Marine Debris Summit