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# "Navigating the Port of NY/NJ"

## January 15, 2015

Elise Avallon, Education and Outreach Manager, NAMEPA



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# Who We Are

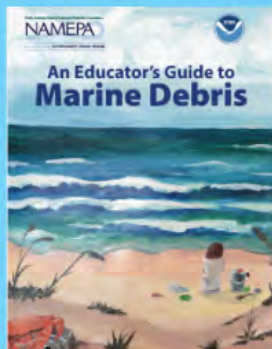
- Industry led initiative with over 150 members including shipping companies/academies, universities, harbor schools and individual members
- Preserve and protect the marine environment
- Support industry & demonstrate industry's commitment to environmental protection
- Engage marine businesses, government and public to "Save our Seas" by promoting sound environmental practices
- Educate seafarers, port communities and students

## Education



Coming soon... An Educator's  
Guide to the Marine  
Environment!

# Education



Coming soon... An Educator's  
Guide to the Marine  
Environment!





# Marine Debris

- Impacts even the most remote areas of the world
- Effects include:
  - Entanglement of marine life
  - Ingestion by marine life
  - Degrades habitat
  - Plastics never really biodegrade











YOU SEE THE DIFFERENCE.  
**A TURTLE DOES NOT.**

# Impacts on Port Communities

- **Damage to boats:** Floating debris such as rope, fishing line, and nets become entangled in boat propellers or clog cooling water intakes, costing vessel owner time and money
- **Fisheries in decline:** Marine debris damages habitats of many commercially harvested fish species
  - "Ghost fishing:" unattended pots continuing to catch organisms without being harvested





# The Facts

- ~80% of marine debris comes from land-based sources
- 2010: Americans generated 250 million tons of trash, 31 million of which were plastics
- It is estimated that about 60-80% of all marine debris generated globally is plastic
- Plastic grocery bag has only been around since 1962
- Marine debris education is crucial!
  - MARPOL Annex V







C. Morishige, NOAA Marine Debris Program



# TOP 10 ITEMS COLLECTED



1  
Cigarette Butts  
**2,043,470**



6  
Grocery Bags  
(Plastic)  
**441,493**



2  
Food Wrappers  
(Candy, chips, etc.)  
**1,685,422**



7  
Beverage Bottles  
(Glass)  
**394,796**



3  
Beverage Bottles  
(Plastic)  
**940,170**



8  
Other Plastic Bags  
**389,088**



4  
Bottle Caps  
(Plastic)  
**847,972**



9  
Paper Bags  
**368,746**



5  
Straws, Stirrers  
**555,007**



10  
Beverage Cans  
**339,170**

# MARPOL Regulations

- Convention written by the members of the **International Maritime Organization (IMO)** to set regulations governing the global shipping industry
  - The Convention includes regulations aimed at preventing and minimizing pollution from ships - both accidental and operational
  - **Six annexes:** Oil Pollution, Noxious Liquid Substances, Harmful Substances in Packaged Form, Sewage, Garbage and Air Pollution



## MARPOL Annex V: Garbage

- Prohibits all types of garbage to be disposed overboard
- Exceptions include:
  - Dismantled ships and fishing nets
  - Cooked foodstuffs and garbage in sealed receptacles
  - Sewage from the cargo hold or cargo hold tanks
  - Residues from the cargo hold or cargo hold tanks
  - Most industrial except food waste
  - Garbage Management Plan
  - Residues from the cargo hold or cargo hold tanks
  - Garbage from the cargo hold or cargo hold tanks





# MARPOL Annex V: Garbage

- Anywhere at sea, it is illegal to discharge:
  - Plastics and materials containing plastic
  - Synthetic lines and fishing nets
  - Ash from the incineration of garbage or sludge
  - Residues from the cargo section of an oil tanker
  - Residues from the cargo section of any vessel that are deemed dangerous or harmful to the environment
  - Most materials except food waste
- Garbage Management plan
- Records kept in ship's Garbage Record Book
- Garbage Placard should be displayed





# Don't throw garbage overboard

## You could be breaking the law

*Any garbage discharge must be recorded*

Annex V of MARPOL 73/78 applies to all ships and is an International Convention providing for a cleaner, safer marine environment. Discharge of all garbage into the sea is prohibited unless expressly provided for otherwise and then only when en route.



**WITHIN 3 MILES OF LAND  
AND ALL INLAND WATERWAYS.**

**X YOU CANNOT THROW  
ANYTHING OVERBOARD**

Only certain cleaning agents contained within wash water may be discharged.

©MPL



**BETWEEN 3 & 12NM  
OFFSHORE**

**✓ YOU CAN THROW  
OVERBOARD:**

Food waste comminuted or ground to less than 25mm. This is not allowed in special areas.

**X YOU CANNOT THROW  
OVERBOARD**

Any other form of garbage.

©MPL



**GREATER THAN 12NM  
OFFSHORE**

**✓ YOU CAN THROW  
OVERBOARD:**

Food waste, certain cargo residues contained in wash water and carcasses of animals. In special areas comminuted food waste, some cargo residues and cleaning agents but discharge is subject to further restrictions.\*

**X YOU CANNOT THROW  
OVERBOARD**

Any other form of garbage.

©MPL



**OFFSHORE PLATFORMS  
MORE THAN 12NM FROM  
LAND AND ALL SHIPS  
WITHIN 500m OF THEM**

**✓ YOU MAY BE ABLE  
TO DISCHARGE:**

Food waste comminuted or ground to less than 25mm. Local offshore regulations may apply therefore always check with the local administration prior to any discharge within the 500m zone.

**X YOU CANNOT THROW  
OVERBOARD**

Any other form of garbage.

©MPL

### MARPOL Anti-Pollution Regulations

To IMO Resolution MEPC.201(62)

Violations of these requirements may result in civil penalties being imposed, as determined by current National Legislation. Garbage must be disposed of as described in the garbage management plan.

**The following special areas have been created for the purposes of Annex V:**

The Mediterranean Sea area, Baltic Sea area, Black Sea area, Red Sea area, Gulfs area, North Sea area, Antarctic area and the Wider Caribbean region. In these areas only food waste if it has been comminuted or ground to less than 25mm may be discharged specific restrictions apply to avian products in the Antarctic area. In certain circumstances only, exceptions may also apply for, cargo residues contained within wash water and cleaning agents and additives contained in cargo hold and deck wash water which are not harmful to the marine environment. These discharges must be made en route and beyond 12 miles offshore. Detailed descriptions of the extent of these special areas may be found in Regulation 1 of Annex V of MARPOL 73/78. Additionally further local regulations such as off the north eastern coast of Australia may apply in various national waters. Please ensure you check the IMO web site for updates on special areas. [www.imo.org](http://www.imo.org)

When garbage is mixed with or contaminated by other substances prohibited from discharge or having different discharge requirements, the more stringent requirements shall apply.

Cargo residues and cleaning agents which are harmful to the marine environment must not be discharged under any circumstance.

\* Discharge shall only be allowed if both the port of departure and the next port of destination are within the special area, the ship will not transit outside the special area and no adequate reception facilities are available at those ports.

There is evidence that different flag states and administrations have interpreted the MARPOL regulations in slightly differing ways, wherever possible this poster has aired on the side of caution when interpreting the regulations.

**If in doubt don't throw anything overboard**

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# NAMEPA's Initiatives

- Marine debris education programs/materials
- Local cleanups
- Educational videos
- Educational seminars for adults
- Partnership with Sea Research Foundation: producing marine debris toolkits, which include informational rack cards for boaters and marine debris prevention checklists
- Partnership with the Ocean Conservancy: "Clean Marina Day:" June 2015



# What You Can Do

- Make sure you & your crew are informed of current regulations
- Bring all of your trash back to shore as well as any debris you find
- Properly secure your trash
- Encourage your marina to provide adequate trash cans and recycling bins
- Set up an on board system to segregate trash for easy disposal and recycling on shore
- Report animal stranding and entanglements
- Report illegal dumping to USCG - use channel 16 on VHF radio or call (800)424-8802
- Fishing materials can be recycled at various ports across the U.S. through Fishing for Energy -NFWF
- Visit [www.namepa.net](http://www.namepa.net) for more information and resources!





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