Marine Debris is Everyone’s Problem
(and anyone can do something about it)

Neal Parry, Nir Barnea, NOAA Marine Debris Program
C-MORE Marine Debris Education Program
NOAA Marine Debris Program

- Established in 2005
- Mandated by the Marine Debris Research, Prevention, and Reduction Act, Dec. 2006
- Dedicated to promoting and leading research, prevention, and reduction activities nationwide
- MDP has regional coordinators for the East Coast, Gulf of Mexico, Great Lakes, West Coast, Alaska, and Hawaii
- Website: www.marinedebris.noaa.gov
Litter left by tourists from Hawaii, Antarctica, Tanzania, New Zealand, Canada, England, Sweden, Japan, Philippines, China, Venezuela, and the United States.
Drift From Pacific & Asian Coasts, Starting 01/01/1967

OSCURS MODEL
Ocean Surface Current Trajectories

360-Day Tails
Wind Factor = 1.0

01/01/1967 to 7/3/1967
NOAA-NMFS-AFSC Daily Simulation by Jim Ingraham
Drift From Pacific & Asian Coasts, Starting 01/01/1967

OSCURS MODEL
Ocean Surface Current Trajectories

360-Day Tails
Wind Factor = 1.0

01/01/1967 to 12/27/1976
NOAA-NMFS-AFSC Daily Simulation by Jim Ingraham
Marine debris impact on wildlife
Marine debris impacts on the economy

Tourism
- New Jersey: Loss off ~$2B in 1987-88
- Annual beach cleanup: ~1.5M

Ghost fishing
- Puget Sound: $167k – $1.86M crab loss to derelict pots

Photo: Stilaguamish
Photo: eoearth.com
Marine debris impact on public safety

- Puget Sound: Divers entanglement
- Korea: Seo-Hae ferry boat sinking
Microplastics impact?

Photo: Tokyo University

Image: University of Plymouth, UK
Deep Water Survey in California

Photos: NOAA

Figure: NOAA
Marine-based littering
Clean marinas in California and elsewhere

A partnership to provide clean marinas and protect waterways from pollution
Impact of lost recreational fishing gear

Monofilament

Pelican injured by fishing hook and monofilament
Monofilament recycling

Fish responsibly: recycle your fishing line

Monofilament recycling bin, Santa Monica pier
Prevention: reduce and reuse

Source: http://www.blogto.com/upload/2008/04
Recycle

• Only about 25% of the plastic produced in the U.S. is recycled.

• If we recycled the other 75% we could save 1 billion gallons of oil and 44 million cubic yards of landfill space annually.

(Source: University of Utah)
Prevent littering

Source: Baltimore Sun

Source: City of Port Angeles
Be an advocate

**Activity book**

**Understanding Marine Debris**

**Games & Activities for Kids of All Ages**

**Deniz kirliliği hepimizin sorunu.**


Deniz kirliliğini durdurmak için ne yapmak gerektiğini öğrenmek hepimizin görevi.

[www.marinedebris.noaa.gov](http://www.marinedebris.noaa.gov)

**Marine debris is everyone’s problem**
Thank you!

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