Pics for CURRENT Events
Jr. Watermen’s Program
Ocean City, MD
27 January, 2007
Typical container ships carry about 10,000 containers, each about 40 feet long and weighing as much as 67,000 pounds!

The value of a full load of cargo can reach $300 million!
• The **OOCL Shenzen** from Hong Kong was once the largest container ship in the world!

• The new title holder, the **Emma Maersk**, can carry nearly double the capacity!

MSC Napoli, Southwest England – Ongoing!

- 2400 containers: motorcycles, car parts, and oak barrels;
- 158 containers fallen
- 50 BMW motorcycles seen taken from beach
- 168 containers contain hazardous chemicals
- 200 of 3000 tons of oil already leaked
Containers fall from cargo ships an estimated 2,000 – 10,000 times per year!

Some float, some sink…

Wind-driven ocean currents carry floating material (*flotsam*) all over the globe!

Some famous examples include:

- Seabeans
  - Hamburger beans from seabean.com
- Legos (1997)
- Floatees Bath Toys (1992)
- Nike Shoes (1990, 2002)
- Hockey Equipment (1994)
On November 30, 2006 a fallen cargo container of Doritos (Nacho Cheese and Cool Ranch!) washed up in the Outer Banks, NC!

From http://content.hamptonroads.com/story.cfm?story=115267&ran=146714
Nemo and Dory riding the EAC* with Crush and Squirt!

*Yes, the EAC (East Australian Current) really does exist!
The Gulf Stream through the Mid-Atlantic
The Gulf Stream Along the East Coast
The most common example of flotsam!
Coastal current measurements *(direction and speed)* obtained using HF Radar

*Mid-Atlantic Raw Velocities 2007/01/25 1300 GMT*

From Rutgers Coastal Ocean Observation Lab <http://marine.rutgers.edu/cool/>
Coastal surface current measurements (direction and sea surface temperature) obtained using HF Radar (current) and satellites (temperature)
The Global Wind Bands

- **Polar Easterlies**
- **Westerlies**
- **Trade Winds**

Map showing the global wind bands with arrows indicating the direction of wind flow. The map includes major ocean and continent labels, such as the Pacific Ocean, Atlantic Ocean, and various cities and regions around the world.
Rubber duckies graciously donated by the first years® by Learning Curve™