



## NOAA Marine Debris Program

# Marine Debris Monthly Report - October 2007

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

This weekly report contains information and updates highlighting NOAA's marine debris projects and partners, as well as marine debris media hits from around the world.

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### **Environmental Response Data Collection Standard Workshop - September 25-27, 2007**

NOAA Emergency Response Division partnered with the NOAA Marine Debris Program and the Coastal Response Research Center to host a workshop to discuss integrating data collection across response and marine debris missions. Participants focused on developing relationships between the two communities and identifying commonalities that will facilitate data integration in the future. The original concept developed out of the Selendang Ayu and Hurricanes Katrina/ Rita incidents where ad hoc connections between marine debris and spill response were built, highlighting the potential for increased coordination. More than 40 stakeholders participated, representing a range of federal, state, private and

NGO groups.

For more information visit [http://www.crrc.unh.edu/workshops/data\\_standards/](http://www.crrc.unh.edu/workshops/data_standards/).

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## **Rhode Island Department of Environmental Management and Clean the Bay Kick-off and Media Event**

On October 1, 2007, NOAA joined Rhode Island Department of Environmental Management (RIDEM) and Clean the Bay for a Kick-off and media event to celebrate the second year of funding for Clean Sweep, a project that cleans debris from the shores and waters of Narragansett Bay. Speakers at the event included RIDEM Director W. Michael Sullivan, NOAA Assistant Administrator Tim Keeney, Clean the Bay leaders Alan Wentworth and Ed Hughes, Senator Reed, Congressman Kennedy, and Governor Carcieri. After the speaking portion of the program, speakers and supporters were invited to climb aboard the Eleanor S, Clean the Bay's removal vessel, and taken to a site on the Bay where they watched a beached floating dock be removed (as well as pitched in by removing litter and styrofoam by hand).

To date, RIDEM and Clean the Bay have removed over 1000 tons of debris, and plan to clean an additional 100 miles of shoreline in 2008. Funding for this project was provided by the NOAA Marine Debris Program's community-based grants, which are administered by the NOAA Restoration Center.



A derelict floating dock (which had been on shore) being pulled into the barge. *Photo by S. Morison, NOAA MDP.*



Ed Hughes of Clean the Bay, with a pile of nets on shore. *Photo by S. Morison, NOAA MDP.*

### **Media hits:**

#### **Clean The Bay Will Keep On Sweepin' \***

Natural News Network, October 2, 2007

<http://www.naturalnews.net/wordpress/?p=693>

#### **NOAA, Rhode Island Governor and Local Officials Launch Next Phase of Narragansett Bay Debris Cleanup \***

NOAA - Washington,DC, October 1, 2007

[http://www.noaanews.noaa.gov/stories2007/20071001\\_cleansweep.html](http://www.noaanews.noaa.gov/stories2007/20071001_cleansweep.html)

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### **NOAA Marine Debris Program Hosts Carpentaria GhostNet Program in Hawaii**



Loading derelict fishing nets near South Point, Big Island of Hawaii. NOAA MDP.

The NOAA Marine Debris Program hosted Gary Luchi, Queensland Project Facilitator with the Carpentaria Ghost Net Program in Hawaii from September 14-28. He was recently awarded a Churchill Fellowship Study grant to travel to the U.S. (Alaska, Hawaii, Washington, Washington D.C., then Louisiana) to see and learn what we are doing to address the problem of marine debris. During his trip to Hawaii, Gary met with numerous marine debris partners, including NOAA, to learn about various projects going on to address marine debris in the state, as well as to share information on the Carpentaria Ghost Net Program. Among the activities that he did was participate in the International Coastal Cleanup Day, toured the facilities and companies involved in Hawaii's Nets to Energy program, helped remove nets from the shoreline near South Point, Island of Hawaii, and treated to a sightseeing tour of debris spots on the Island of Kahoolawe. Everyone enjoyed his enthusiasm for marine debris, and learned a great deal about what is being done in Australia to address this global issue.

The Carpentaria Ghost Net Program works with indigenous Aboriginal tribes in northern Australia in the removal and recording of derelict fishing nets. For more information on the Carpentaria Ghost Net Program visit: <http://www.ghostnets.com.au/>.



Public presentation at HI Humpback Whale NMS Education Center. NOAA MDP.



Photo in front of derelict nets to be cut by Schnitzer Steel Hawaii Corp. NOAA MDP.

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## NOAA Marine Debris Program at Hawaii's Largest Fishing Festival



The NOAA Marine Debris Program shared information on marine debris and their program at the 2nd annual Hawaii Fishing and Seafood Festival on Sunday, October 7th. The festival, held at Pier 38 (Honolulu Harbor), attracted nearly 20,000 local residents and visitors - anyone and everyone with a love of fishing, seafood, or the ocean in general! The MDP shared a booth with the NOAA Pacific Services Center and National Weather Service, as well as Coastal America, who sponsored the booth.

## Media hits on event:

### Seafood Fest Reels 'Em In

KITV 4 News, October 8, 2007

<http://www.thehawaiichannel.com/news/14291087/detail.html>

### Fishing & Seafood Festival Reel in Customers

KGMB 9 News, October 7, 2007

<http://kgmb9.com/main/content/view/646/40/>

### Fishing & Seafood Festival Reel in Customers

KHON 2 News, October 7, 2007

<http://www.khon2.com/news/local/10306952.html>

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## NOAA Marine Debris Program Hosts Mr. Gary Luchi in Washington State



Gary Luchi (second from right) with the Nisqually dive team.



Gary Luchi (second from right) with the Betsea crew.



During the week of October 1st, the NOAA Marine Debris Program hosted Gary Luchi in Washington State, the 3rd state he's visited in his trip to the U.S. (he's visited Alaska and Hawaii already). Mr. Luchi, a project facilitator from Australia's Carpentaria Ghost Net Program, manages ghost net removal, mostly by local natives, and won a grant to travel in the U.S. for two months to learn how U.S. entities deal with marine debris.

During the week Mr. Luchi met with a derelict fishing gear removal team, went out on the *Betsea*, a boat equipped to remove derelict fishing gear, and learned about the work practices and challenges associated with derelict gear removal in the Puget Sound where the currents are swift and the weather mercurial. He also met with personnel from the Olympic Coast National Marine Sanctuary. Mr. Luchi, who works extensively with indigenous Aboriginal communities, was particularly interested in meeting with Native American tribes. During his trip he met with both the Makah and the Nisqually tribes who graciously agreed to meet with Mr. Luchi and discuss with him the project they are involved with. Mr. Luchi also gave a presentation to NOAA Office of Response and Restoration (OR&R) personnel in Seattle. The presentation describes the Australian ghost net removal program, both from an operational angle, and from the point of view of the native Aboriginal communities, who witness marine resources in their regions decimated by ghost nets.

Mr. Luchi has visited Alaska, Hawaii, Washington State, and NOAA headquarters in Silver Spring, MD. He will then travel to the Gulf of Mexico (New Orleans, LA), where survey and removal of post Katrina marine debris is taking place. Mr. Luchi plans to return to Australia in late October.

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## 2007 Marine Debris Team Removes Entanglement Hazard from Rabbit Island, Hawaii

The NOAA Fisheries Pacific Islands Fisheries Science Center (PIFSC) Coral Reef Ecosystem Division (CRED) Marine Debris Team successfully collected a large net from the near shore waters just west of Rabbit Island, a small island off the southeast coast of Oahu. Rabbit Island is one of the most important refuges for the endangered Hawaiian monk seal in the main Hawaiian Islands.

The net was spotted by a volunteer for NOAA Fisheries' Protected Species Division while keeping a watchful eye out for resident seals. The help of the Marine Debris Team was requested to recover the entanglement hazard. Members of the Marine Debris Team launched two boats to recover the net with help from the NOAA Fisheries' Pacific Islands Regional Office who remained onshore to help document the effort. The 150 pound derelict net was found floating approximately 20 feet offshore from Rabbit Island in approximately 6 feet of water. Multifilament and gillnet pieces were attached to live coral and small foam floats bobbed at the surface. The removal of all nets near Rabbit Island is critical as it is an area with a low level of wildlife harassment; therefore, a common place for Hawaiian monk seals to relax, give birth, and wean their pups.

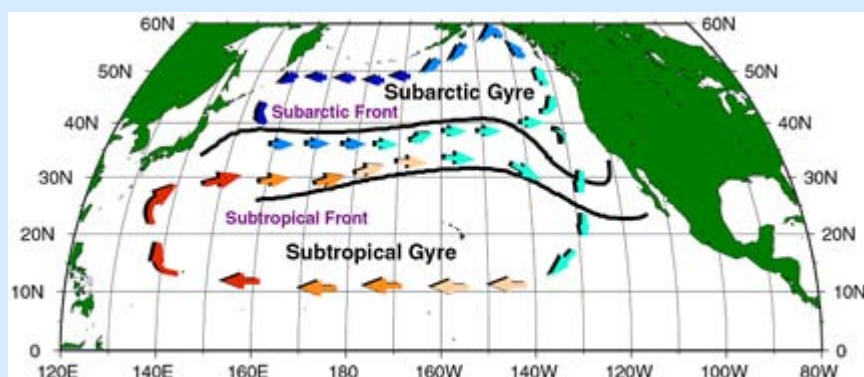
This project was a great success due to the collaboration of several different agencies. Removal of these nets is one of the many steps being made to help the diminishing population of Hawaiian monk seals recover.

For more information visit <http://www.pifsc.noaa.gov/cred/mdr.php>.



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## New Study Released on Marine Debris Collection in the North Pacific Subtropical Convergence Zone



A new study, by William Pichel (NOAA National Environmental Satellite, Data, and Information Service), et al., has been published in the Marine Pollution Bulletin. In this study, four aerial surveys for marine

debris were conducted north of Hawaii in 2005. Over 1,800 pieces of debris was observed, of which 122 were derelict fishing nets. Debris concentrations were found to be highest north of the North Pacific Transition Zone Chlorophyll Front that lies within the North Pacific Subtropical Convergence Zone. Researchers found that these densities were significantly correlated with sea-surface temperature, and chlorophyll- $\alpha$  concentrations and gradient. From these results, a Debris Estimated Likelihood Index (DELI) was developed to predict the likely location of high concentrations of marine debris in the North Pacific during spring and early summer.

Publication Citation:

*Pichel, W., J. Churnside, T. Veenstra, D. Foley, K. Friedman, R. Brainard, J. Nicoll, Q. Zheng, and P. Clemente-Colon. 2007. Marine debris collects within the North Pacific Subtropical Convergence Zone. Marine Pollution Bulletin 54: 1207-1211.*

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## Olympic Coast National Marine Sanctuary Launches 5-year Coastal Cleanup Plan



One of many piles of debris collected from the Olympic Coast. Photo credit: OCNMS

The [Olympic Coast National Marine Sanctuary](#) launched the development of a five-year strategic plan for coastal cleanup activities on the Washington Coast, by inviting federal, state, tribal, and local conservation partners to the first of several facilitated meetings. Participants included Olympic National Park, Surfrider Foundation, Washington State Parks, Northwest Interpretive Association, and local cleanup groups from Long Beach, Oceans Shores, and Sekiu. The group defined long term goals and measures of success and agreed to break out into thematic areas to develop long term strategies that could be folded into a five-year strategic plan with improvements to existing cleanup activities and in a more coordinated fashion across the geographic range. The process is funded by the NOAA Marine Debris Program.

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## Large-scale Marine Debris Removal in Connecticut Underway

Goodwin College received \$40,000 from the Community-based Marine Debris Prevention and Removal Grants to remove over 900 cubic yards of partially submerged debris that has accumulated along the riverbanks of its property on the Connecticut River, as well as to help raise public awareness of the need to keep the river clear of debris. The project will help rehabilitate more than two miles of riverfront along the site of Goodwin College's new campus currently under construction in East Hartford.

### Media Hits:

Cleaning up East Hartford riverfront  
WTNH News, October 24, 2007  
<http://www.wtnh.com/Global/story.asp?S=7258849>

Goodwin College launches Riverfront cleanup effort  
East Hartford Gazette - East Hartford, CT, October 26, 2007  
[http://www.zwire.com/site/news.cfm?newsid=18960746&BRD=1642&PAG=461&dept\\_id=10299&rfi=6](http://www.zwire.com/site/news.cfm?newsid=18960746&BRD=1642&PAG=461&dept_id=10299&rfi=6)

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## HIGHLIGHT: Current Projects Addressing Marine Debris in the U.S.

New project description pages are now up on the

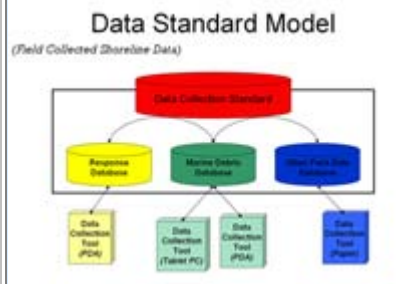
[NOAA Marine Debris Program Web site!](#) Learn about and view photos and videos of several new projects going on across the nation.

## Nationwide



### [Assessing the Socio-economic Costs of Marine Debris and the Benefits of Abatement - Phase 2: Model Development, Data Gap Analysis and Survey Design](#)

Net removed at-sea by Hawaii-based longliner. *Photo courtesy of R. Mansho, Schnitzer Steel HI Corp.*



### [Emergency Response Field Data Collection - Integrating Marine Debris and Shoreline Assessment Data Through a Common Data Standard](#)

A data standard can provide a common language that allows different groups and data collection efforts to share information. It can be the rules of communication that help standardize the way data is collected and stored. Once critical commonalities exist then integration and the associated benefits are possible. *Figure courtesy of I. Zelo.*

## Atlantic Region



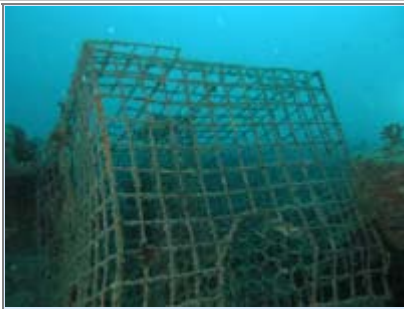
### [Demonstration Project for At-sea Retrieval and Shore-side Removal of Derelict Fishing Gear from the Stellwagen Bank National Marine Sanctuary](#)

Capt. Frank Mirarchi and project sanctuary staff lead Ben Cowie- Haskell display their successful catch of derelict lobster traps from the Stellwagen Bank National Marine Sanctuary off of Massachusetts. *Photo courtesy of Dave Haley.*



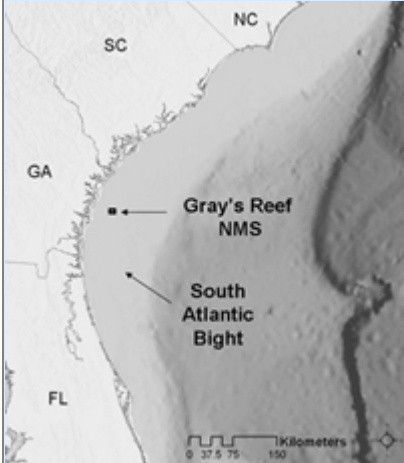
### [Debris Accumulation, Removal and Impact Assessment \(DARIA\)](#)

Staff at CCFHR remove debris at a salt marsh located near the CCFHR campus. *Photo courtesy of Shay Viehman, NOAA/CCFHR.*



[Recovery and Subsequent Disposal of Ghost Black Sea Bass Traps in the U.S. South Atlantic Fishery Management Area](#)

Derelict Black Sea Bass trap. *Photo courtesy of NMFS.*



[Assessment, Monitoring, and Reduction of the Causes and Impacts of Marine Debris in the South Atlantic Bight](#)

Map courtesy of NOAA Gray's Reef National Marine Sanctuary.



[Derelict Traps and Casita Debris in the Florida Keys National Marine Sanctuary: Distribution, Habitat Impacts, and Bycatch Mortality](#)

Project divers Tom Matthews (foreground) and Jenny Vander Pluym assess the extent of habitat impact from a derelict spiny lobster trap observed during a tow. *Photo courtesy of NOAA.*

**Pacific Region**



[Coordinating Our Efforts: Establishing Effective and Scientifically Sound Marine Debris Goals, Practices, and Outreach for Alaska](#)

Clean up efforts in 2004 on St. Paul Island, Alaska. *Photos courtesy of Michael Williams, NOAA.*





### [Oregon Derelict Gear Recovery](#)

Off-loading recovered gear. *Photo courtesy of NOAA.*



### [Development of a Coordinated Strategy for the Washington Outer Coast Beach Cleanup and Debris Cache Removal](#)

One of many piles of debris collected from the Olympic Coast. *Photo courtesy of OCNMS.*



### [An Assessment of Derelict Fishing Gear and Other Marine Debris in Deepwater Benthic Habitats Off California](#)

*Photo courtesy of Milton Love (University of California Santa Barbara).*



### [Marine Debris Survey and Removal from the Northwestern Hawaiian Islands \(NWHI\) Marine National Monument: Maintenance Mode](#)

Hauling out derelict net in the Papahānaumokuākea Marine National Monument. *Photo courtesy of NOAA Fisheries, Pacific Islands Fisheries Science Center.*



### [A Survey of Invertebrate and Algal Communities Colonizing Marine Debris in the Northwestern Hawaiian Islands](#)

Alien mussel found on a derelict net. *Photo courtesy of NOAA Fisheries, Pacific Islands Fisheries Science Center.*



### [Planning for Removal of Derelict Vessels and Vessel Debris in American Samoa](#)

Wreckage of the F/V Young Kwan is spread over several hundred meters of the shoreline and reef flats on Aunu'u Island. *Photo courtesy of D. Helton.*

## Marine Debris in the News

*Marine debris media hits from various sources around the world.*

\* = Related to the NOAA Marine Debris Program, a funded project or marine debris partners the program works with.

### **Clean The Bay Will Keep On Sweepin' \***

Natural News Network, October 2, 2007  
<http://www.naturalnews.net/wordpress/?p=693>

### **NOAA, Rhode Island Governor and Local Officials Launch Next Phase of Narragansett Bay Debris Cleanup \***

NOAA - Washington,DC, October 1, 2007  
[http://www.noaaneews.noaa.gov/stories2007/20071001\\_cleansweep.html](http://www.noaaneews.noaa.gov/stories2007/20071001_cleansweep.html)

### **Under the sea just got a little cleaner**

Maui News - Wailuku,HI, October 1, 2007  
<http://www.mauinews.com/news/2007/10/1/04under1001.html>

### **Let's keep paradise clean and pristine**

Nassau Guardian - Nassau,Bahamas, October 1, 2007  
[http://www.thenassauguardian.com/social\\_community/295000464318527.php](http://www.thenassauguardian.com/social_community/295000464318527.php)

### **Remote Waters Offer No Refuge from Plastic Trash**

NPR.com, October 1, 2007  
<http://www.npr.org/templates/story/story.php?storyId=14859155>

### **Habitat Protection Sought for World's Largest Turtle, Endangered Leatherback, Off California and Oregon Coast**

E-Wire (press release) - Dallas,TX, September 29, 2007  
[http://www.ewire.com/display.cfm/Wire\\_ID/4245](http://www.ewire.com/display.cfm/Wire_ID/4245)

### **ACC steps up advocacy, plans California ad campaign**

Modern Plastics On The Web - New York,NY, September 28, 2007  
[http://www.modplas.com/inc/mparticle.php?section=eweekly&thefilename=eweekly09012007\\_36](http://www.modplas.com/inc/mparticle.php?section=eweekly&thefilename=eweekly09012007_36)

### **State restoring all wade-to reefs along the Coast**

Biloxi Sun Herald - MS, September 28, 2007  
<http://www.sunherald.com/201/story/152210.html>

### **Support the People of Hawaii, the Economy of Hawaii and the Superferry**

Hawaii Reporter - Kailua,HI, September 27, 2007  
<http://www.hawaiireporter.com/story.aspx?6fa5d1c2-e4b5-4807-b803-297cda1a7325>

### **A big cleanup project**

Baltimore Sun - United States, September 26, 2007  
<http://www.baltimoresun.com/news/local/bal-cleanup0925.0.4254015.story>

### **Canada's Shorelines Now Cleaner Than Ever**

Canada NewsWire (press release) - Canada, September 26, 2007  
<http://www.newswire.ca/en/releases/archive/September2007/26/c5057.html>

### **Environmentalists stop artist dumping plastic in river**

East London Advertiser - London,England,UK, September 26, 2007  
<http://www.eastlondonadvertiser.co.uk/content/towerhamlets/advertiser/news/story.aspx?brand=ELAOline&category=news&tBrand=northlondon24&tCategory=news&itemid=WeED26%20Sep%202007%2013%3A39%3A02%3A823>

### **Habitat Protection Sought for World's Largest Turtle**

Sea Turtle Restoration Project (press release) - Forest Knolls,CA, September 26, 2007  
[http://www.seaturtles.org/press\\_release2.cfm?pressID=329](http://www.seaturtles.org/press_release2.cfm?pressID=329)

**Coast Guard cancels debris cleanup because of Superferry concerns**

KPUA - HI, September 26, 2007

<http://www.kpua.net/news.php?id=12684>

**US Coast Guard Wet Debris Removal In Final Stage**

Media Newswire (press release) - New York,NY, September, 27, 2007

[http://media-newswire.com/release\\_1055049.html](http://media-newswire.com/release_1055049.html)

**Marine officials debate ways to lessen amount of abandoned boats**

Naples Daily News - Naples,FL, September 27, 2007

[http://www.naplesnews.com/news/2007/sep/27/marine\\_officials\\_debate\\_ways\\_lessen\\_amount\\_abandon/?breaking\\_news](http://www.naplesnews.com/news/2007/sep/27/marine_officials_debate_ways_lessen_amount_abandon/?breaking_news)

**SFO debris cleanup will spare jet engines**

Inside Bay Area - Oakland,CA, September 21, 2007

[http://www.insidebayarea.com/dailyreview/localnews/ci\\_6957898](http://www.insidebayarea.com/dailyreview/localnews/ci_6957898)

**Katrina debris still chokes Mississippi waterways**

Houston Chronicle - United States, October 8, 2007

<http://www.chron.com/dispatch/story.mpl/nation/5195405.html>

**Sea change**

Khaleej Times - Dubai,United Arab Emirates, October 7, 2007

[http://www.khaleejtimes.com/DisplayArticleNew.asp?xfile=data/todaysfeatures/2007/October/todaysfeatures\\_October7.xml&section=todaysfeatures&col=](http://www.khaleejtimes.com/DisplayArticleNew.asp?xfile=data/todaysfeatures/2007/October/todaysfeatures_October7.xml&section=todaysfeatures&col=)

**Marine Debris Cleanup Dive**

Maui.net, October 5, 2007

[http://www.maui.net/maui\\_activities/local-guides/82/](http://www.maui.net/maui_activities/local-guides/82/)

**Survey on marine debris**

Ceylon Daily News - Ceylon,Sri Lanka, October 5, 2007

<http://www.dailynews.lk/2007/10/05/news24.asp>

**The world is their ashtray**

Dallas Morning News - Dallas,TX, October 4, 2007

[http://www.dallasnews.com/sharedcontent/dws/news/city/collin/opinion/stories/DN-north\\_mitchell\\_1004edi.ART.North.Edition1.4276a06.html](http://www.dallasnews.com/sharedcontent/dws/news/city/collin/opinion/stories/DN-north_mitchell_1004edi.ART.North.Edition1.4276a06.html)

**Rotary Club plans aggressive anti-litter campaign**

The Mississippi Press - gulflive.com - Pascagoula,MS, October 3, 2007

<http://www.gulflive.com/news/mississippipress/index.ssf?/base/news/119140652956180.xml>

**SAS take plastic trash to the British Plastics Federation**

Global Surf News - USA, October 2, 1007

[http://www.globalsurfnews.com/news.asp?id\\_news=30658](http://www.globalsurfnews.com/news.asp?id_news=30658)

**Under the sea just got a little cleaner**

The Maui News, October 1, 2007

<http://www.mauinews.com/story.aspx?id=34662>

**Tom Jones' California Paddle on Final Leg of Journey**

Surfline.com Surf News - Huntington Beach,CA, October 15, 2007

<http://www.surfline.com/surfnews/surfwire.cfm?id=11681>

**Many eco-friendly grocery alternatives are available**

Record-Searchlight (subscription) - Redding,CA, October 14, 2007

<http://www.redding.com/news/2007/oct/14/many-eco-friendly-grocery-alternatives-are/>

**CoastswEEP nets a multitude of trash**

SouthCoastToday.com - New Bedford,MA, October 14, 2007

<http://www.southcoasttoday.com/apps/pbcs.dll/article?AID=/20071014/NEWS/710140370>

**Lack of Action to Combat Marine Pollution Undermines Schwarzenegger's Ocean Protection Effort**

California Progress Report - Oakland,CA, October 12, 2007

[http://www.californiaprogressreport.com/2007/10/lack\\_of\\_action.html](http://www.californiaprogressreport.com/2007/10/lack_of_action.html)

**Tom Jones' on final leg of his California Paddle journey**

Global Surf News - USA, October 11, 2007

[http://www.globalsurfnews.com/news.asp?id\\_news=30831](http://www.globalsurfnews.com/news.asp?id_news=30831)

**Impact options at the grocery store**

Scripps News - Washington,DC, October 11, 2007

<http://www.scrippsnews.com/node/27538>

**Marine Debris Removal Team Making Significant Progress**

WLOX - Biloxi,MS, October 9, 2007

<http://www.wlox.com/Global/story.asp?S=7190222&nav=6DJJ>

**Marine Debris Removal Team Making Significant Progress**

WLOX - Biloxi,MS, October 9, 2007

<http://www.wlox.com/Global/story.asp?S=7190222&nav=6DJJ>

**Beach cleanup at Jenness will have Halloween theme**

Portsmouth Herald News - Portsmouth,NH, October 9, 2007

<http://www.seacoastonline.com/apps/pbcs.dll/article?AID=/20071009/NEWS/710090338>

**Recycling to get easier for residents**

GoErie.com - Erie,PA, October 24, 2007

<http://www.goerie.com/apps/pbcs.dll/article?AID=/20071024/OPINION01/710240406>

**Don't be a tosser, pick up your butt**

Brisbane Times - Brisbane,Queensland,Australia, October 24, 2007

<http://www.brisbanetimes.com.au/news/queensland/dont-be-a-tosser-pick-up-your-butt/2007/10/24/1192941118241.html>

**Plastics are pervasive and a pervasive problem**

Political Cortex - New York,NY, October 23, 2007

<http://www.politicalcortex.com/story/2007/10/23/23543/830>

**Everyday objects condemn sea life to death**

Scotsman - United Kingdom, October 22, 2007

<http://news.scotsman.com/scotland.cfm?id=1686972007>

**Abu Dhabi - Community cleans up**

7DAYS - Dubai,United Arab Emirates, October 21, 2007

<http://www.7days.ae/en/2007/10/21/abu-dhabi-community-cleans-up.html>

**An end to man's destruction of the 'web of life'**

Scotsman - United Kingdom, October 21, 2007

<http://news.scotsman.com/scotland.cfm?id=1680842007>

**Stevens loading up his war chest**

Fairbanks Daily News-Miner - Fairbanks,AK, October 21, 2007

<http://newsminer.com/2007/10/21/9473>

**Fact Sheet: Guarding Against Over-Fishing Through Cooperative Conservation**

Whitehouse.gov (press release) - Washington,DC,USA

<http://www.whitehouse.gov/news/releases/2007/10/20071019-19.html>

**Sophie Cole reviews the small steps you can make towards big changes**

gair rhydd - Cardiff,UK, October, 20, 2007

[http://www.gairrhydd.com/science\\_environment/851/dont-think-you-can-make-a-difference-think-again/](http://www.gairrhydd.com/science_environment/851/dont-think-you-can-make-a-difference-think-again/)

**EAD and volunteers to clear Fishermen's Wharf of marine litter**

AME Info - United Arab Emirates, October 20, 2007

<http://www.ameinfo.com/135004.html>

**Mechanical problem delays Tsawwassen-Swartz Bay ferry**

Times Colonist - Victoria,British Columbia,Canada, October 19, 2007

<http://www.canada.com/victoriatimescolonist/news/story.html?id=2d07930a-309d-49b7-92a8-2346343da343&k=36080>

**Radio Address by the President to the Nation**

Business Wire, October 19, 2007

[http://www.infobolsa.es/v2002/Noticias/noticias\\_titulares2.asp?Fuente=IBNW&FechaNot=20071019&Clasif=C&Numnot=104662](http://www.infobolsa.es/v2002/Noticias/noticias_titulares2.asp?Fuente=IBNW&FechaNot=20071019&Clasif=C&Numnot=104662)

**Sophie Cole reviews the small steps you can make towards big changes**

gair rhydd - Cardiff,UK, October 19, 2007

[http://www.gairrhydd.com/science\\_environment/851/dont-think-you-can-make-a-difference-think-again/](http://www.gairrhydd.com/science_environment/851/dont-think-you-can-make-a-difference-think-again/)

**Plastic in paradise**

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