NOAA Marine Debris Program

Marine Debris Monthly Report - September 2007

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.

In this month's report...

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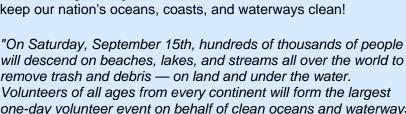
Gulf of Mexico Marine Debris Project Update

Marine Debris Program participates in a Media Day in Plaquemines Parish, LA

Marine Debris in the News

Save the Date for the International Coastal Cleanup





will descend on beaches, lakes, and streams all over the world to remove trash and debris — on land and under the water. Volunteers of all ages from every continent will form the largest one-day volunteer event on behalf of clean oceans and waterways Ocean Conservancy's International Coastal Cleanup." [from the Ocean Conservancy Web site]



For more information visit:

http://www.oceanconservancv.org/site/PageServer ?pagename=press icc.

3rd Annual NOAA Cleanup Day

*NOAA staff, friends, and family -- Sign up to Clean up!

To sign up and learn more details, email the following people in your area by September 7th:

Washington, DC - 9am-12pm

Anacostia Park

Contact Megan Forbes for more information.



Seattle, WA - 10am-12pm

Elliott Bay & Myrtle Edwards Park Contact Vicki Loe for more information.

Honolulu, HI - 8am-11am

Ala Wai Small Boat Harbor/Magic Island Contact Carey Morishige for more information.

To see how NOAA has gotten involved in the past, visit: http://marinedebris.noaa.gov/projects/icc.html.

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Learn About Current Projects Addressing Marine Debris on Marine Debris Program Web Site

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. Current projects you can read more about include:

Atlantic

- Recovery and Subsequent Disposal of Ghost Black Sea Bass Traps in the U.S. South Atlantic Fishery Management Area
- Assessment, Monitoring, and Reduction of the Causes and Impacts of Marine Debris in the South Atlantic **Bight**

Pacific

- An Assessment of Derelict Fishing Gear and Other Marine Debris in Deepwater Benthic Habitats Off California
- Marine Debris Survey and Removal from the Northwestern Hawaiian Islands (NWHI) Marine National Monument: Maintenance Mode
- A Survey of Invertebrate and Algal Communities Colonizing Marine Debris in the Northwestern Hawaiian Islands

More to come soon (e.g. Derelict Traps and Casita Debris in the Florida Keys National Marine Sanctuary: Distribution, Habitat Impacts, and Bycatch Mortality)!

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Community-based Marine Debris Prevention and Removal Grant - Open!

In cooperation with the NOAA Restoration Center, the Marine Debris Program offers another funding opportunity. This grant is provided to catalyze the implementation of locally driven, community-based marine debris prevention and removal projects that will benefit coastal habitat, waterways, and NOAA trust resources including anadromous fish. The NOAA Restoration Center funds projects directly and through partnerships with national and regional organizations.

Applications are due October 31, 2007.

For more information visit:

http://www.nmfs.noaa.gov/habitat/restoration/projects programs/crp/partners funding /callforprojects2.html or http://marinedebris.noaa.gov/funding/welcome.html

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Commonwealth of Northern Mariana Islands (CNMI) Kicks off Vessel Debris Cleanup with International Coastal Cleanup

With support from the <u>NOAA Marine Debris Program</u> and <u>Coral Reef Conservation Program</u>, CNMI's Coastal Resources Management Office (CRMO) is using the International Coastal Cleanup (ICC) to kick off a project to clean a reef flat of debris from the fishing vessel Nam Sung #62 on the island Rota. CRMO is anticipating the full cooperation of the local government, private sector, high school, junior high school, and the college as well as some private contractors for the September 15 cleanup. ICC volunteers will focus on the small marine debris of the Nam Sung #62 on this one-day event. CRMO will continue the efforts until they remove the bulk part of the vessel.

For more information, contact Kris McElwee or lan Zelo.







Photos of beached vessel debris in CNMI. Photos courtesy of K. McElwee., NOAA MDP

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NOAA and Marine Conservation Alliance Foundation Sponsored 2007 Marine Debris Cleanups in Alaska

One hundred volunteers with 13 support vessels descended upon beaches in Prince William Sound's (Alaska) Naked Island group from May 18 through May 21. Over three days, the volunteer effort removed approximately 740 bags of plastic marine debris from the rugged shores of the Naked Island group. Gulf of Alaska Keeper's (GoAK) 6-man crew then continued cleaning beaches in the Naked Island group and other nearby islands. Over another 30 days, they cleaned 111 miles of beaches, completing the Prince William Sound 2007 cleanup on June 19. Over 40 tons of plastic marine debris was removed and hauled to Whittier in 21 boatloads for proper disposal.

After a week of recovery, the GoAK crew moved to Gore Point, a remote wilderness peninsula jutting into the Gulf of Alaska off the Kenai Peninsula's southeast coast. From just 2.5 miles on three heavily fouled Gore Point beaches, the GoAK crew, along with five volunteers that spent 10 days at the site, removed 178 debris filled Super Sacks. Another 52 Super Sacks of debris were removed from 70 miles of nearby beaches. All 230 Super Sacks were staged on Gore Point beaches and then lifted by helicopter onto a landing craft for shipment to the Homer landfill. The Super Sacks weighed over 300 pounds each. The helicopter also slung out marine debris such as nets, floats, fuel drums and other material either too large or heavy to bag. To date, GoAK has removed about 45 tons of debris from the Gore Point area.

For more information, please contact Chris Pallister of GoAK.



Derelict purse seine net debris. Photo courtesy of Ted Raynor, GoAK.



Debris at Gore Point, AK. Photo courtesy of Chris Pallister, GoAK.



Landing craft with bags of marine debris.
Photo courtesy of Ted Raynor, GoAK.



Net debris on the beach. Photo courtesy of Ted Raynor, GoAK.

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International Conference: Coastal Footprints Minimizing Human Impacts, Maximizing Stewardship

The Coastal Society The Coastal Society's 21st International Conference
June 29-July 2, 2008
Redondo Beach, Los Angeles, California
Abstracts due October 23, 2007

The Coastal Society invites panel sessions and oral and poster presentations for its 21st Biennial Conference that:

- * Provide scientific information relevant to solving contemporary coastal problems
- * Integrate science, management, and policy
- * Present questions or case studies that encourage dialogue and sharing of solutions

Preference will be given to presentations, panels, and posters that fit within one of the seven conference tracks and complement the conference's theme of solutions to coastal issues that minimize human impact and maximize stewardship. The conference tracks are:

- * Effective Integration of Coastal Science, Policy and Management
- * International Coastal Management Concepts and Practices
- * Integrating Social Equity into Coastal Management
- * Coastal Energy Siting, Production and Consumption
- * Coastal Land and Watershed Use
- * Climate Change Impacts
- * Working Waterfronts and Waterways

Abstract submission is online only. Abstracts are due October 23, 2007. Acceptance will be provided by December 20, 2007.

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NEW STUDY SHOWS LINK BETWEEN EL NIÑO AND MARINE DEBRIS IN NORTHWESTERN HAWAIIAN ISLANDS [Joint press release from the National Oceanic and Atmospheric Administration, U.S. Fish and Wildlife Service, and University of Hawaii Sea Grant College Program]

According to a new study, a significantly higher amount of marine debris comes ashore in the Northwestern Hawaiian Islands during El Niño periods than when La Niña conditions are present. The 16-year study, published in *Marine Pollution Bulletin*, is the first to document the influence of El Niño and La Niña on marine debris in the NWHI.

The study, Factors affecting marine debris deposition at French Frigate Shoals, Northwestern Hawaiian

Islands Marine National Monument, 1990–2006, looked at 16 years of marine debris data and compared those numbers to known periods of both El Niño and La Niña. Evidence suggests that the increase in marine debris on the shores of the NHWI is a result of the southward movement of the Subtropical Convergence Zone, an area in the North Pacific where two ocean currents meet and is known to have high densities of marine debris. The STCZ shifts southward, into the NWHI, during El Niño periods.

The study is based on data gathered by volunteers with the U.S. Fish and Wildlife Service, who tabulated, collected, and removed more than 52,000 pieces of debris since 1990 from the shores of the Hawaiian Islands National Wildlife Refuge's Tern Island station, a part of French Frigate Shoals in what is now the Papahānaumokuākea Marine National Monument. More than 70 percent of the debris removed from Tern Island, including buoys, bottles, and cigarette lighters, was made of plastic.

"Greater attention is being paid to the oceans and atmosphere and how they are affecting everything, from the environment and marine debris, to our economy," said Carey Morishige, outreach coordinator for the NOAA Marine Debris Program and lead author of the study. "Studies like this help provide information that can be used to effectively continue addressing the pervasive problem of marine debris."

This new study focuses mainly on smaller debris items (excluding nets), which on any beach create an eyesore and can also be ingested by wildlife such as the Laysan albatross, a seabird whose main breeding population is located in the NWHI. Marine debris, from plastic bottles and lighters to derelict nets, remains one of the main threats to ecosystems of the NWHI, an area afforded our nation's highest level of protection. The NWHI are also home to the endangered Hawaiian monk seal, threatened green sea turtle, coral reefs, and an abundance of other species.

The study was designed and funded with assistance from the Fish and Wildlife Service's Pacific Islands Fish and Wildlife Office and the University of Hawai'i Sea Grant Program.

The NOAA Marine Debris Program works with other NOAA offices including NOAA Fisheries Service and the NOAA National Ocean Service, as well as other federal, state, and local agencies and private sector partners to support national, state, local and international efforts to protect and conserve our nation's natural resources, oceans, and coastal waterways from the impacts of marine debris.

For more information please contact Carey.Morishige@noaa.gov.

Media hits:

Study Ties More Marine Debris to El Nino FOX News - USA http://www.foxnews.com/wires/2007Sep14/0,4670,MarineDebris,00.html

Marine debris linked to El Nino KPUA - HI, September 14, 2007 http://www.kpua.net/news.php?id=12587

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Marine Debris in Alaska: Where We Are Now and Planning For the Future

February 14 and 15, 2008

Anchorage, Alaska

Website: http://seagrant.uaf.edu/conferences/2007/marinedebris/index.html

Alaska has 5,580 miles of mostly uninhabited coastline and generally lacks significant road access. Alaska's marine and freshwater ecosystems support the largest array of commercial fisheries in North America. In addition to supporting thriving fisheries Alaska's oceans serve as major international and intra-state cargo transportation routes, coastal community transportation, and tourist destinations. The magnitude of use and the pattern of currents near Alaska's shores have led to large deposits of marine debris on our shores. In addition, inadequate waste disposal from coastal communities can also enter the marine environment. Alaskan marine debris removal efforts are currently scattered regionally and often opportunistic. Government agencies, environmental organizations, landowners and tribes attempt

to identify and solve these natural resource issues with few resources and limited centralized organization. As a result, regional marine debris removal programs often operate in isolation modestly funded using a combination of volunteer and paid staff. Furthermore, difficult access to Alaskan coasts, safety and weather considerations, limited landfill sites and recycling options result in high removal costs. Effective outreach and education is difficult because debris sources are often unknown. It is the purpose of the proposed workshop to coordinate and prioritize statewide marine debris removal, education, and outreach.

If there are any questions please contact Erika Ammann at erika.ammann@noaa.gov.

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CALIFORNIA LEGISLATURE ACTS TO PROTECT MARINE LIFE [Press release from Heal the Bay and Environment California, Monday, September 10, 2007]

Passes AB 258, a Heal the Bay-backed bill to stop plastic "nurdles" from fouling waterways

SACRAMENTO, CA -- The California Legislature today passed AB 258, a marine protection bill that requires manufacturers to prevent "nurdles," the pellets used in the pre-production of all plastics, from spilling dangerously into storm drains and waterways. The bill now goes to Gov. Arnold Schwarzenegger for his expected signature in next 60 days.

AB 258 is the first of four bills that comprise The Pacific Protection Initiative, a flotilla of legislation that Heal the Bay, Environment California and other advocacy groups helped draft. The measures codify the state Ocean Protection Council's hard-hitting February resolution on reducing and preventing plastic marine debris. Assemblymember Paul Krekorian (43rd – Burbank) sponsored AB 258.

"Nurdles, the building blocks of all plastic, are present in enormous quantities, and pose a lethal threat to aquatic life," said Leslie Tamminen, legislative director of Heal the Bay. "Beyond ecological concerns, protecting California's ocean simply makes great economic sense as well."

Because nurdles are the size of small fish eggs, marine life and sea birds commonly mistake the pellets for food. Ingestion causes intestinal blockage and starvation. More than 1 million seabirds, 100,000 marine mammals and countless fish have died annually in the north Pacific from ingesting or becoming entangled in marine debris.

"Plastics in our ocean are among the greatest current threats to the environment," Assemblymember Krekorian said. "These tiny plastic pieces do not biodegrade and will remain in the marine environment for decades, if not centuries. Already, there are 45,000 pieces of plastic floating in every square mile of the ocean. Our oceans have reached a crisis point due to plastic pollution, and it must be stopped." Industrial discharge of the pellets originates from inland urban areas during the transport, packaging, and processing of all plastics. Nurdles eventually migrate to coastal waterways and beaches through storm drains. Approximately 60 billion pounds of the materials are manufactured annually in the United States.

AB 258 will require all plastic product manufacturers to use best management practices, such as proper storage and clean-up procedures to prevent pellet spillage. The State Water Resources Control Board will be responsible for increased regulation and monitoring of companies that handle and use nurdles.

"This common-sense law will protect our seas by stemming the growing tide of plastic trash that is polluting our waterways," said Lt. Gov. John Garamendi, a member of the Ocean Protection Council.

The fate of Pacific Protection Initiative bills addressing lost and abandoned fishing gear, toxics in plastic and sustainable packaging will be determined next year. (For more information on SB 898, SB 899 and AB 904, visit www.healthebay.org/PPI.)

Heal the Bay is a nonprofit environmental organization dedicated to making Southern California coastal waters and watersheds, including Santa Monica Bay, safe, healthy and clean for people and aquatic life. Environment California is a statewide, citizen-based environmental advocacy organization.

Contact: Matthew King, Heal the Bay, (310) 451-1500, x 137, mking@healthebay.org.

Also visit http://www.healthebay.org/currentissues/ppi/default.asp.

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NOAA Marine Debris Program Receives NOAA Administrator's Award

The NOAA Marine Debris Program was a winner of this year's Administrator's Award. They will receive the award in a special presentation on September 25th. They were awarded, "for successfully implementing an effective and nationally recognized program that supports NOAA's mission to keep the oceans free of marine debris."

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Gulf of Mexico Marine Debris Project Update

ORR Gulf of Mexico's Marine Debris Project conducted a series of interviews with managers from the states of Alabama, Mississippi, and Louisiana, and with U.S. Coast Guard Sector Mobile, to glean lessons learned from post-Katrina marine debris cleanup, and ask for suggestions for future such response. The interview questions dealt with determination of areas to be cleaned up, addressing permitting and consultations, soliciting input from the public and fishing industry, contracting for debris removal, monitoring of removal operations, and disposal/recycling options. A number of lessons learned and good suggestions were provided, including the importance of early start on consultation and permits, the need to capture and use fishermen and public reports on marine debris, what cleanup method worked best and where, and the need to couple survey to removal. There was unanimous support for a concise, focused, and easy to use guidance document to help the response to the next large-scale marine debris "spill". The information provided during the interviews will be used to generate this document, which should be ready by the end of November.

For more information please contact Nir.Barnea@noaa.gov.



Marine debris cleanup in Back Bay Biloxi, using small boats.

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Marine Debris Program participates in a Media Day in Plaquemines Parish, LA

On September 19, 2007 staff from the NOAA Marine Debris Program (MDP) attended an energetic Media Day event in south Plaquemines Parish, Louisiana. The event was organized by Louisiana Sea Grant, and along with NOAA's Office of Coast Survey (OCS), included: WWLTV News of New Orleans, National Public Radio, Louisiana Sportsman Magazine, the local Plaquemines Parish newspaper, and a film crew from Paradise Louisiana. The Port of Plaquemines provided a port boat to participate in the event. Participants boarded a survey boat and proceeded out on Empire channel to view a number of hazards found in the area. The story was recently broadcast on WWLTV, and can be viewed at

http://www.wwltv.com/video/news-index.html?nvid=176639.

In the area of approximately 98 square nautical miles surveyed in Plaquemines Parish, over 262 objects have been processed and reported to NOAA for placement on the Project Web site, http://qulfofmexico.marinedebris.noaa.gov.

For more information, please contact Neal.Parry@noaa.gov.



L to R: Patrick Fink (OCS), Mike Christy (debris surveyor), Neal Parry (MDP), Rusty Gaude (LA Sea Grant), Amanda Sandal (LA Sea Grant), Tim Osborn (OCS), and Paula Ouder (LA Sea Grant).



Neal Parry (MDP) explaining the impacts of marine debris to the media.

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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.

Will the Mob Rule in Superferry Debate?

Hawaii Reporter - Kailua,HI, September 25, 2007 http://www.hawaiireporter.com/story.aspx?ab3d82d6-0f6d-4440-affe-f5c59da10ed0

Hawaii Superferry showdown hinders environmental cleanup

Seattle Times - United States, September 24, 2007 http://seattletimes.nwsource.com/html/travel/2003899791_webhawaiiferry24.html

Ferry flap nixes trip to remove sea debris

Honolulu Star Bulletin, September 24, 2007 http://starbulletin.com/2007/09/24/news/story01.html

Artist Fran Crowe completes litter marathon

People & the Planet - London, UK

http://www.peopleandplanet.net/doc.php?id=3095

First Rain Brings Pollution, Toxins to Los Angeles Waters

Surfline.com Surf News - Huntington Beach, CA, September 21, 2007 http://www.surfline.com/surfnews/surfwire.cfm?id=11255

21 - Over 500 kilos of marine debris gathered in coastal

Bayanihan.org - Philippines, September 21, 2007 http://www.bayanihan.org/html/article.php/20070921123542059

Volunteers pick up trash on SFO fields so that jet engines won't

San Mateo County Times - San Mateo, CA, September 20, 2007 http://origin.insidebayarea.com/sanmateocountytimes/ci 6946351

Cape Fear Academy students assist in beach cleanup efforts

Lumina News - Wrightsville Beach, NC, September 20, 2007 http://www.luminanews.com/article.asp?aid=1433&iid=80&sud=30

Plane to Help Protect Hawaii Coral Reefs

The Associated Press, September 19, 2007 http://ap.google.com/article/ALeqM5jGFBaN-PWqlRHDrpKWHe8n8loESA

980 Pounds Of Trash

Santa Monica Mirror - Santa Monica, CA, September 19, 2007 http://www.smmirror.com/MainPages/DisplayArticleDetails.asp?eid=6286

AROUND SOUTH MISSISSIPPI - Thousands of volunteers clean up the Coast

Biloxi Sun Herald - MS, September 18, 2007 http://www.sunherald.com/201/story/144747.html

Litter louts face prosecution after beach clean-up

Hartlepool Today - UK, September 18, 2007 http://www.hartlepoolmail.co.uk/news/Litter-louts-face-prosecution-after.3209026.jp

Beach clean up bags 1400 items

The Connacht Sentinel - Galway, Ireland, September 18, 2007 http://www.galwaynews.ie/1334-beach-clean-bags-1-400-items

Unmanned plane to help spot marine debris in monument

KPUA - HI,USA, September 18, 2007 http://www.kpua.net/news.php?id=12632

Plane to Help Protect Hawaii Coral Reefs

Washington Post - United States, September 18, 2007 http://www.washingtonpost.com/wp-dyn/content/article/2007/09/18/AR2007091801552.html

Plane to Help Protect Hawaii Coral Reefs

FOX News - USA, September 18, 2007 http://www.foxnews.com/wires/2007Sep18/0,4670,DebrisMonitoring,00.html

Surfers Against Sewage campaigners pick up Porthtowan

Global Surf News - USA, September 17, 2007 http://www.globalsurfnews.com/news.asp?ld_news=30366

Coastal Clean-up Day observed

Hindu - Chennai,India, September 17, 2007 http://www.hindu.com/2007/09/17/stories/2007091759730300.htm

Students search out marine debris

HomerNews.com, September 12, 2007

http://www.homernews.com/stories/09122007/news_1_002.shtml

Coasting to a litter-free beach

Hindu - Chennai, India, September 17, 2007

http://www.hindu.com/2007/09/17/stories/2007091758510300.htm

Clean-up drive along beaches

Newindpress - Chennai, Tamil Nadu, India, September 17, 2007

http://www.newindpress.com/NewsItems.asp?ID=IEO20070916223756&Page=O&Headline=Clean-up+drive+along

+beaches&Title=Thiruvananthapuram&Topic=0

A swarm of 'ghosts' raises alarm in bay *

Baltimore Sun - United States, September 16, 2007

http://www.baltimoresun.com/sports/bal-

te.sp.ghostpots16sep16,0,2352581.story?coll=bal sports football promo

Shawn Alladio interviews California Paddler Tom Jones

Global Surf News - USA, September 16, 2007

http://www.globalsurfnews.com/news.asp?ld_news=30333

Beach looks nice and clean today - only 800 bits of litter in 100 metres

Scotsman - United Kingdom, September 16, 2007

http://news.scotsman.com/uk.cfm?id=1484022007

Students help volunteers gather two tons of Broward County beach trash

Sun-Sentinel.com - Fort Lauderdale, FL, September 16, 2007

http://www.sun-sentinel.com/news/local/broward/sfl-flbbeach0916nbsep16,0,5681183.story

Sand, surf and ... litter

Portsmouth Herald News - Portsmouth, NH, September 16, 2007

http://www.seacoastonline.com/apps/pbcs.dll/article?AID=/20070916/NEWS/709160351/-1/NEWS

Plastic waste threat to marine life

Guardian Unlimited - UK, September 16, 2007

http://www.guardian.co.uk/environment/2007/sep/16/pollution.travelnews?gusrc=rss&feed=travel

Hundreds show up for waterfront cleanup

Florida Today - Melbourne.FL. September 15, 2007

http://www.floridatoday.com/apps/pbcs.dll/article?AID=/20070915/BREAKINGNEWS/70915007/1086

Recycling Victories in California Legislature Highlight Session Wrap Up--Bills on the Governor's Desk - Local Action to Get Plastics Out of Ocean Continue

California Progress Report - Oakland, CA, September 15, 2007

http://www.californiaprogressreport.com/2007/09/recycling victo.html

Trash and debris removed from beaches

WPTV - West Palm Beach,FL, September 15, 2007

http://www.wptv.com/news/local/story.aspx?content id=21587c75-2180-407f-abcf-af345deed8ff

Nahr Ibrahim: Another paradise lost under piles of litter

Daily Star - Lebanon - Beirut, Lebanon, September 15, 2007

http://www.dailystar.com.lb/article.asp?edition_id=1&categ_id=1&article_id=85289

Beaches to get new look

Hindu - Chennai, India, September 15, 2007

http://www.hindu.com/2007/09/15/stories/2007091553140300.htm

Car Parts to Fishing Line, International Coastal Clean-up Bags It All

Environment News Service - USA, September 14, 2007

http://www.ens-newswire.com/ens/sep2007/2007-09-14-091.asp

Calling all volunteers for cleanup

Pacific Daily News - Hagåtña, GU, September 14, 2007

http://www.guampdn.com/apps/pbcs.dll/article?AID=/20070914/NEWS01/709140331/1002

Oregon Fall Beach Cleanup is Saturday

Salem-News.Com - OR, September 14, 2007

http://www.salem-news.com/articles/september142007/beach_clean_up_091407.php

Cleanup offers hope for RP marine life

ABS CBN News - Philippines, September 14, 2007

http://www.abs-cbnnews.com/storypage.aspx?StoryID=92373

State Parks Join in Annual International Beach Cleanup

readMedia (press release) - Albany, NY, September 14, 2007

http://readme.readmedia.com/news/show/State-Parks-Join-in-Annual-International-Beach-Cleanup/9005

Join The Marine Mammal Center for California Coastal Cleanup Day

Emediawire (press release) - Ferndale, WA, September 14, 2007

http://www.emediawire.com/releases/2007/9/emw553420.htm

Volunteers needed to clean local beaches Saturday

Lompoc Record - Lompoc, CA, September 14, 2007

http://www.lompocrecord.com/articles/2007/09/14/news/centralcoast/news06.txt

Beaches to get new look

Hindu - Chennai, India, September 14, 2007

http://www.hindu.com/2007/09/15/stories/2007091553140300.htm

Clean-up campaigner meets challenge

Suffolk Evening Star - Ipswich, England, UK, September 14, 2007

http://www.eveningstar.co.uk/content/eveningstar/news/story.aspx?brand=EST

Online&category=News&tBrand=ESTOnline&tCategory=News&itemid=IPED13%

20Sep%202007%2015%3A08%3A34%3A167

Sub-tidal debris targeted Unusual findings over the years:

White Rock Peace Arch News - B.C., Canada, September 13, 2007

http://www.peacearchnews.com/portals-code/list.cgi?paper=44&cat=23&id=1064668&more=0

Coastal Cleanup making an impact on our waters

The Thomasville Times - Thomasville, AL, September 13, 2007

http://www.thethomasvilletimes.com/news/2007/0913/Front Page/049.html

Beach cleanup set for Makapuu

Honolulu Star-Bulletin - Honolulu, HI, September 13, 2007

http://starbulletin.com/2007/09/13/features/dakine.html

Cleanup offers hope for RP marine life

ABS CBN News - Philippines, September 13, 2007

http://www.abs-cbnnews.com/storypage.aspx?StoryID=92373

Top Stories From Homer, Alaska

Homer News - Homer, AK, September 12, 2007

http://www.homernews.com/stories/09122007/news_1_002.shtml

Get involved in a beach clean

Blackpool Citizen - UK, September 12, 2007

http://www.blackpoolcitizen.co.uk/news/headlines/display.var.1682416.0.get_involved_in_a_

beach clean.php

Cleanup initiative calls on Canadians to help spruce up country's shorelines

The Canadian Press - TORONTO, September 12, 2007

http://canadianpress.google.com/article/ALeqM5ggk6d3i2Bssvp00pPbH2KxAa48Tw

International Coastal Clean-up set for Saturday

Stabroek News - Georgetown, Guyana, September 12, 2007

http://www.stabroeknews.com/index.pl/article_general_news?id=56528641

Juneau groups partner to celebrate International Coastal Cleanup Day

Juneau Empire (subscription) - Juneau, AK, September 12, 2007

http://www.juneauempire.com/stories/091207/nei 20070912002.shtml

GROUP TO TACKLE RISING TIDE OF LITTER ON BEACH

This is North Scotland - Aberdeen, UK, September 12, 2007

http://www.thisisnorthscotland.co.uk/displayNode.jsp?nodeld=149664&command=

displayContent&sourceNode=149490&contentPK=18367093&folderPk=85696&pNodeId=149221

Water Ways

Honolulu Star-Bulletin - Honolulu, HI, September 12, 2007

http://starbulletin.com/2007/09/12/sports/pendleton.html

Juneau groups partner to celebrate International Coastal Cleanup Day

Juneau Empire, September 12, 2007

http://www.juneauempire.com/stories/091207/nei_20070912002.shtml

Team up to clean up state's coast

Clanton Advertiser - Clanton, AL, September 11, 2007

http://www.clantonadvertiser.com/articles/2007/09/11/sports/e-sports.txt

Beach cleanup to benefit right whales

Block Island Times - RI, September 10, 2007

http://www.blockislandtimes.com/articles/2007/09/10/news/news18.txt

Marine Pollution Prevention Station Removes Vessel from Eilat's ...

Israel Ministry of the Environment - Jerusalem, Israel, September 10, 2007

http://www.environment.gov.il/bin/en.jsp?enPage=e_BlankPage&enDisplay=view&enDispWhat=Object&enDispWho=News^l3685&enZone=e_news

Marine Pollution Prevention Station Removes Vessel from Eilat's Tourist Lagoon

Israel Ministry of the Environment - Jerusalem, Israel, September 10, 2007

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Any questions, comments, or submissions should be sent to Carey Morishige at Carey.Morishige@noaa.gov.