

NOAA Marine Debris Program

Marine Debris Monthly Report - February 2008

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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Marine Debris in the News

NOAA, Covanta Energy, and the National Fish and Wildlife Foundation Launch Fishing for Energy Program

On February 5th, a public-private partnership called "Fishing for Energy" was launched in New Bedford, MA. "Fishing for Energy," a partnership between the NOAA Marine Debris Program, Covanta Energy, the National Fish and Wildlife Foundation, and the Port of New Bedford, is an effort to work with coastal communities to reduce the amount of derelict fishing gear in our oceans. Derelict fishing gear injures and kills marine life and impacts navigational safety with potentially adverse effects on shipping and coastal industries. In this new effort, Covanta Energy will work closely with the New Bedford Harbor Development Commission and the local fishing industry to coordinate the

removal of derelict gear from local coastal waters. Once removed, the gear, along with gear that is no longer fit for use, will be transported to Covanta's Energy-from-Waste facility in Haverhill, MA. Approximately one ton of derelict marine debris creates enough electricity to power one home for 25 days.

For more information, contact <u>Sarah.Morison@noaa.gov</u>.

Media hit:

Covanta Energy and NOAA Join Together With the National Fish and Wildlife Foundation to Launch Fishing for Energy Program *
Centre Daily Times - Centre,PA, February 5, 2008
http://www.centredaily.com/business/story/380696.html

(top)

Alaskans regroup in battle against marine debris - Marine Debris in Alaska Workshop February 14–15 in Anchorage

Press release, January 23, 2008

Anchorage, Alaska—Alaska has a reputation for clean waters and pristine vistas. But anyone who has walked Alaska's rocky beaches knows that parts of the state's vast coastline are far from pristine.

Fishing nets, rope, totes, six-pack rings, bottles, drums, and myriad other trash—much of it plastic—litter Alaska's shores. It's a vexing mess made by both humans and nature. Humans dump trash into the sea—often thousands of miles away—and ocean currents carry it onto the state's rugged and mostly remote Alaskan coast.

Annual beach cleanups and federal laws aimed at ending the coastal carnage have done little to stem the waves of trash washing onto Alaska's shores.

At next month's Alaska Forum on the Environment, concerned residents will regroup in their war on the trash that fouls Alaska beaches.

The Marine Debris in Alaska Workshop will take place February 14–15 at the Egan Convention Center in Anchorage. Organizers said the workshop is needed to coordinate and prioritize statewide marine debris removal, education, and outreach, and to map a strategy for future prevention and cleanup efforts.

Alaska has more than 34,000 miles of mostly uninhabited coastline that lacks significant road access. The state's oceans support the largest array of commercial fisheries in North America, and they serve as major international and intra-state cargo transportation routes, coastal community transportation, and tourist destinations.

Much of the debris on Alaska's beaches comes from as far away as Asia, carried on ocean currents to the far reaches of the state's vast coast. In addition, inadequate disposal of waste from Alaska coastal communities also enters the marine environment.

While various groups remove tons of debris from Alaska's shoreline each year, the efforts of government agencies, recreational and environmental groups, the private sector, landowners and tribes operate with few resources and limited coordination.

As a result regional debris removal programs are often spotty and opportunistic, operate in isolation, and are modestly funded. Complicating cleanup efforts has been the high cost of removal, difficult access to

remote beaches, safety and weather considerations, and limited landfill sites and recycling options. Effective outreach and education is challenging because debris sources are often unknown.

The Marine Debris in Alaska Workshop is sponsored by the NOAA Marine Debris Program, the NOAA Alaska Sea Grant College Program, and the Marine Conservation Alliance Foundation.

For more information on the conference visit http://seagrant.uaf.edu/conferences/2008/marinedebris/index.html or contact Nir.Barnea@noaa.gov.



Photo courtesy of Bob King, MCAF.

(top)

Alaska Workshop on Marine Debris

On February 14 and 15, a workshop on marine debris in Alaska was held at the Egan Conference Center in Anchorage, Alaska. The workshop, titled "Marine Debris in Alaska - Coordinating Our Efforts" was organized by the NOAA Restoration Center and Pribilof Project Office with funding from the NOAA Marine Debris Program (MDP) and support from the Marine Conservation Alliance Foundation. Participants included representatives from Federal, State, Local, and Tribal governments, as well as NGOs, industry, and academia. Keynote speaker was NOAA Deputy Assistant Secretary Tim Keeney.

The first day was dedicated to presentations, starting with an overview of NOAA MDP, and ranging from sharing specific MD assessment and removal efforts in Alaska, to state of the art technology in aerial surveying, to on-going entanglement research and the hazards of plastics in the ocean. On the second day, breakout discussion groups focused on seven topics critical to marine debris work in Alaska: 1) Where and how accessible are regional debris accumulations 2) Standardizing marine debris data collection 3) What to do with collected debris? 4) How can we prevent and reduce marine debris source through education and outreach 5) How to develop emergent program statewide 6) Who cares: Impact and effects of marine debris on habitat, fisheries, commerce, traditional use, and ecosystem, and 7) What criteria should be applied to prioritizing marine debris cleanup in the state?

All breakout sessions presented their discussion summary to the forum, and on the third day of the conference the breakout session leads convened to draft the summary of their session and recommendations for the future. These will serve as the backbone of the workshop proceedings. There was a lot of energy during the workshop, with contacts being made and proposals for the future discussed.

For more information, please contact Erika Ammann or Mike Williams.

(top)

NOAA Office of Response and Restoration Surveys Wrecks in American Samoa

During the week of February 4, 2008, the NOAA Office of Response and Restoration (OR&R) worked with the Navy Mobil Diving and Salvage Unit 1 (MDSU), a commercial salvage expert, and local agency representatives to conduct a wreck removal feasibility survey in American Samoa. Several wrecks of 1980's vintage are stranded near the villages of Amouli, Aunu'u, and Fatumafuti. Previous surveys found no intact fuel tanks, but the wrecks are disintegrating and vessel debris is being spread over the adjacent coral reefs. The team will prepare a summary of potential removal options including likely costs and environmental trade-offs. The work was conducted with funding from the NOAA Marine Debris Program and the NOAA Coral Conservation Program.

For more information, contact <u>Doug Helton</u>.



F/V Jui Man No. 3, Amouli Village. Photo courtesy of D. Helton.



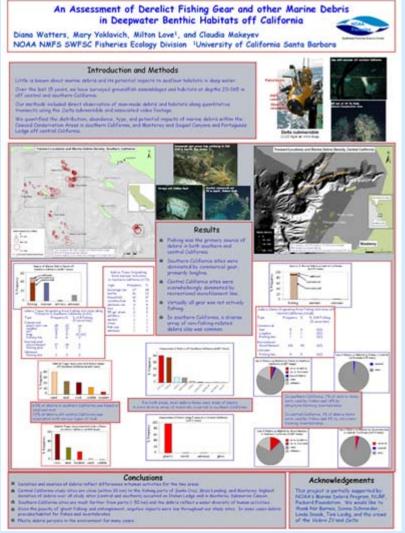
F/V Young Kwan wreckage on Aunu'u Island. Photo courtesy of D. Helton.

(top)

Assessment of Derelict Fishing Gear and other Marine Debris in Deepwater Benthic Habitats Off California

Diana Watters, Mary Yoklavich, and Claudia Makeyev with the NOAA NMFS SWFSC Fisheries Ecology Division, along with Milton Love of UC Santa Barbara, presented a poster on their project at the Western Groundfish Conference in Santa Cruz California, February 4-8, 2008. This project, funded in 2007 by the NOAA Marine Debris Program, surveyed groundfish assemblages and habitats at depths of 20-365m off central and southern California. Results of this 15 year study showed that fishing was the primary source of marine debris in these locations with commercial gear dominating in the south, and recreational monofilament line in central California. Additionally, they found that virtually all gear was not actively fishing.

For more information contact <u>Diana Watters</u> and visit http://marinedebris.noaa.gov/projects/ca_benthic.html.



Poster image courtesy of NOAA NMFS SWFSC project personnel.

(top)

NOAA Marine Debris Program Presentation at Hanauma Bay, HI



Carey Morishige presents at an evening lecture at Hanauma Bay as part of Humpback Whale Awareness Month.

On February 21st, the NOAA Marine Debris Program (MDP) was the evening's guest presenter at the Hanauma Bay Nature Preserve in Honolulu, HI. Carey Morishige, Pacific Islands Outreach Coordinator with the NOAA MDP presented, "Talking Trash: Marine Debris and Wildlife Entanglement" to over 40 residents and visitors. The presentation highlighted the problem of marine debris, its effects, the NOAA MDP, and projects across the nation and in Hawaii addressing this issue. This presentation was part of the Hawaiian Islands Humpback Whale National Marine Sanctuary's Humpback Whale Awareness Month and co-

sponsored by the University of Hawaii Sea Grant College Program's Hanauma Bay Education Program.

For more information, please contact <u>Carey Morishige</u>.

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Current NOAA Projects Addressing Marine Debris in the U.S.

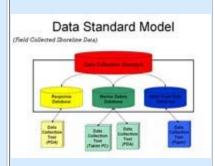
Project description pages are now up on the <u>NOAA Marine Debris Program Web site!</u>
Learn about and view photos and videos of current NOAA projects addressing marine debris across the nation.

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



<u>Demonstration Project for At-sea Retrieval and Shore-side</u>
<u>Removal of Derelict Fishing Gear from the Stellwagen Bank</u>
National Marine Sanctuary

Capt. Frank Mirarchi and project sanctuary staff leadBen 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*.



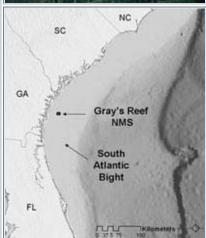
Debris Accumulation, Removal and Impact Assessment (DARIA)

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.



<u>Development of a Coordinated Strategy for the Washington</u>
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 Papahanaumokuakea Marine National Monument. Photo courtsey 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 courtsey of NOAA Fisheries, Pacific Islands Fisheries Science Center.



<u>Planning for Removal of Derelict Vessels and Vessel Debris in</u> 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.

Rainforest logging threatens endangered sea turtles

Mongabay.com - USA, February 25, 2008 http://news.mongabay.com/2008/0225-sea_turtles.html

Think Green: Payless launches enviro-friendly campaign

KUAM.com - Dededo,GU, February 25, 2008 http://www.kuam.com/news/26619.aspx

Anglers tackling buildup of plastic lures in waterways

Washington Times - Washington,DC, February 24, 2008 http://www.washingtontimes.com/apps/pbcs.dll/article?AID=/20080224/NATION/853012443/1002

Volunteers descend on debris, trash

The News-Press - Fort Myers,FL, February 24, 2008 http://www.news-press.com/apps/pbcs.dll/article?AID=/20080224/NEWS0102/802240419/1075

Fishermen recycle nearly 8 tons of gear *

Wicked Local Gloucester - Beverly, MA, February 22, 2008 http://www.wickedlocal.com/gloucester/news/x565322054

Alaska's senators introduce health care bill for commercial fishermen

Cordova Times - Cordova, AK, February 22, 2008 http://thecordovatimes.com/news/story/1506

Wallet Found Inside Shark Caught In Monterey Bay

NBC11.com, February 22, 2008 http://www.nbc11.com/news/15377047/detail.html

Bill would ban smoking at California state parks, beaches

San Francisco Chronicle - CA, February 21, 2008 http://www.sfgate.com/cgi-bin/article.cgi?f=/n/a/2008/02/21/state/n161837S86. DTL&type=politics

Alderman to Propose Tracking Plastic Bags

Washington Post, February 21, 2008 http://www.washingtonpost.com/wp-dyn/content/article/2008/02/20/AR2008022001076. http://www.washingtonpost.com/wp-dyn/content/article/2008/02/20/AR2008022001076.

More than 150 volunteers to help in port clean-up

GulfNews - Dubai, United Arab Emirates, February 21, 2008 http://www.gulfnews.com/nation/Environment/10191408.html

Agency organises clean-up drive at fishermen's port in Abu Dhabi

GulfNews - Dubai,United Arab Emirates, February 20, 2008 http://www.gulfnews.com/nation/Environment/10191260.html

Ask Eartha Steward: The plastic-plankton soup

Summit Daily News - Frisco, CO, February 20, 2008

http://www.summitdaily.com/article/20080220/NEWS/425119557

Santa Monica looks at banning 'single-use' plastic bags

Los Angeles Times - CA, February 20, 2008

http://www.latimes.com/news/local/la-me-santamonica20feb20.1.20861.story

Surfers Against Sewage plan spring clean at Porthtowan

Global Surf News - USA, February 19, 2008

http://www.globalsurfnews.com/news.asp?ld_news=32822

Marine foundation hopes to broaden debris cleanup

Alaska Journal of Commerce, February 17, 2008

http://alaskajournal.com/stories/021908/loc 20080217011.shtml

Millbrae aims to 'curb' plastic bags

Examiner.com - USA, February 18, 2008

http://www.examiner.com/a-1227095~Millbrae aims to curb plastic bags.html

Santa Monica to consider plastic bag ban AND paper bag tax

Los Angeles Times - CA, February 15, 2008

http://latimesblogs.latimes.com/emeraldcity/2008/02/santa-monica-to.html

Trifecta fights plastic bottles

Santa Monica Daily Press - Santa Monica, CA, February 15, 2008

http://www.smdp.com/article/articles/4717/1/Trifecta-fights-plastic-bottles/Page1.html/print/4717

The World This Week: Plastic, People

Valley Advocate - Easthampton, MA, February 14, 2008

http://www.valleyadvocate.com/article.cfm?aid=5816

SBPF terracing bags litter Great Point

Nantucket Independent - MA, February 13, 2008

http://www.nantucketindependent.com/news/2008/0213/Front_Page/001.html

Uganda: Polythene Menace - Government Ban Fails to Take Effect

AllAfrica.com - Washington, USA, February 11, 2008

http://allafrica.com/stories/200802111266.html

Is it time to go plastic bag-free?

Harrogate Today - Harrogate, England, UK, February 11, 2008

http://www.harrogateadvertiser.net/harrogatenews/ls-it-time-to-go.3765914.jp

Beach Sweep for International Year of the Reef

KHNL-TV/KHBC/KOGG - Honolulu, HI, February 11, 2008

http://www.khnl.com/Global/story.asp?S=7851846

British-Irish Council supports fishing for litter initiatives

Fish Update - Edinburgh, UK, February 11, 2008

http://www.fishupdate.com/news/fullstory.php/aid/9974/British-Irish Council

supports_fishing_for_litter_initiatives.html

The time has come to kill all the plastic bags

Globe and Mail - Canada, February 11, 2008

http://www.theglobeandmail.com/servlet/story/RTGAM.20080211.wcomment0211/

BNStory/International/home

Litter turns Pacific into 'plastic soup'

Independent Online - Cape Town, South Africa, February 10, 2008

http://www.iol.co.za/index.php?set_id=1&click_id=143&art_id=vn20080210085415175C340800

Nearly 7 tonnes of rubbish collected in beach clean-up

GulfNews - Dubai, United Arab Emirates, February 10, 2008

http://www.gulfnews.com/nation/Environment/10188627.html

Company launches project to recycle old fishing gear *

Gloucester Daily Times - MA, February 9, 2008

http://www.gloucestertimes.com/punews/local_story_038063810.html

NOAA Web site offers information on marine debris *

West Hawaii Today, February 9, 2008

http://www.westhawaiitoday.com/articles/2008/02/09/features/features03.txt

Abu Dhabi campaigning for cleaner environment

Middle East Online - London, UK, February 9, 2008

http://www.middle-east-online.com/english/?id=24265

Driftwood / Flotsam

Live Journal, February 8, 2008

http://turukhtan.livejournal.com/38350.html

Leatherback Turtle Swims Across Pacific

The Associated Press - February 8, 2008

http://ap.google.com/article/ALeqM5iHu-3AdnGmkZ43Bc_IShTRor-CNAD8UM29HG0

Plastic-free Selkirk? It's in the bag

Selkirk Weekend Advertiser - Selkirk, Scotland, UK, February 8, 2008

http://www.selkirkweekendadvertiser.co.uk/selkirknews/Plasticfree-Selkirk-Its-in-the.3755152.jp

Beach rubbish at Pett Level endangers wildlife

Rye & Battle Observer - St Leonards on Sea, England, UK, February 8, 2008

http://www.ryeandbattleobserver.co.uk/news/Beach-rubbish-at-Pett-Level.3759883.jp

Oceano State Park kicks off statewide plastic recycling program

KSBY - San Luis Obispo, CA, February 7, 2008

http://www.ksby.com/Global/story.asp?S=7841141

EAD launches campaign to weed out marine debris

Khaleej Times - Dubai, United Arab Emirates, February 7, 2008

http://www.khaleejtimes.com/DisplayArticle.asp?xfile=data/theuae/2008/

February/theuae February244.xml§ion=theuae

Company launches project to recycle old fishing gear *

Gloucester Daily Times - MA, February 7, 2008

http://www.gloucestertimes.com/punews/local_story_038063810.html

Removing abandoned crab traps make difference

Houston Chronicle - United States, February 7, 2008

http://www.chron.com/disp/story.mpl/outdoors/5520761.html

City distributing reusable bags, state proposing plastic bag ban

Annapolis Capital - Annapolis, MD, February 6, 2008

http://www.hometownannapolis.com/cgi-bin/read/2008/02 06-09/TOP

Old fishing gear dropoff scheduled for Feb. 11 *

Wicked Local Gloucester - Beverly, MA, February 6, 2008

http://www.wickedlocal.com/gloucester/news/x603856408

Private, public interests teaming up to remove fishing waste for free

MetroWest Daily News - Framingham, MA, February 6, 2008

http://www.metrowestdailynews.com/state/x1925680814

Ulster's aquatic life under threat from the litter bugs

Belfast Telegraph - United Kingdom, February 6, 2008

http://www.belfasttelegraph.co.uk/news/environment/article3405323.ece

Whole Foods to Bag Plastic: Whaddya Think?

Washington Post - United States, February 6, 2008

http://blog.washingtonpost.com/mighty-appetite/2008/02/whole foods to bag plastic wha.html

The State of The World's Sea Turtles (2008) Magazine

Wildlife Extra - Hereford, England, UK, January 2008

http://www.wildlifeextra.com/sea-turtles008.html

The world's rubbish dump: a garbage tip that stretches from Hawaii to Japan

Independent - London, England, UK, February 5, 2008

http://www.independent.co.uk/environment/the-worlds-rubbish-dump-a-garbage-tip-that-

stretches-from-hawaii-to-japan-778016.html

State plastic-bag ban considered

Honolulu Advertiser - Honolulu, HI, February 5, 2008

http://www.honoluluadvertiser.com/apps/pbcs.dll/article?AID=/20080205/NEWS02/

802050333/1006/NEWS02

President's budget highlights commitment to promote jobs

Reliable Plant Magazine - Tulsa, OK, February 5, 2008

http://www.reliableplant.com/article.asp?pagetitle=President's%20budget%20highlights%

20commitment%20to%20promote%20jobs&articleid=10363

Steve Connor: Why plastic is the scourge of sea life

Independent - London, England, UK, February 5, 2008

http://www.independent.co.uk/news/science/steve-connor-why-plastic-is-the-scourge

-of-sea-life-778017.html

Oceans And Coasts Initiative Will Focus On Offshore Resources

Pacific Magazine - Honolulu, HI, February 5, 2008

http://www.pacificmagazine.net/news/2008/02/05/oceans-and-coasts-initiative-will

-focus-on-offshore-resources

Sea Grant College events honor humpback whales *MDP staff presenting at event

Honolulu Advertiser - Honolulu, HI, February 4, 2008

http://www.honoluluadvertiser.com/apps/pbcs.dll/article?AID=/20080204/

NEWS25/802040320/1318/NEWS25

"Feb. 21: "Talking Trash! Marine Debris and Wildlife Entanglement," a lecture by Carey Morishige of NOAA's Marine Debris Program."

CONTAINER CONTEST

Monterey County Herald - Monterey, CA, February 4, 2008

http://www.montereyherald.com/local/ci 8162151?nclick check=1

Trash. Treasure. Tide.

The Oregonian - OregonLive.com - Portland, OR, February 3, 2008

http://www.oregonlive.com/O/relationships/index.ssf?/base/living/1201735508124000.xml&coll=7

Marine Safety Expert Now Heads NOAA Response Office *

Occupational Health Safety - Dallas, TX, February 3, 2008

http://www.ohsonline.com/articles/58044/

Litter blitz for island's church

BBC News - UK, February 2, 2008

http://news.bbc.co.uk/2/hi/uk news/wales/north west/7223814.stm

Feds may cut \$7 billion in fishing grants to Alaska

Arctic Sounder - Anchorage, AK, February 1, 2008

http://thearcticsounder.com/news/story/1305

Alaska residents regroup in battle against marine debris

Arctic Sounder - Anchorage, AK, February 1, 2008 http://thearcticsounder.com/news/story/1304

US plastic bag ban battles on

Plastics & Rubber Weekly - Croydon,UK, January 30, 2008 http://www.prw.com/homePBP_NADetail_UP.aspx?ID_Site=818&ID_Article=24229&mode=1&curpage=0

Aquarium Gives Free Passes To Cleanup Volunteers

Gazette Newspapers - Long Beach, CA, January 30, 2008 http://www.gazettes.com/cleanup1312008.html

Wandering and Wondering -- BEACH PARTY

Pacifica Tribune - Pacifica, CA, January 30, 2008 http://www.pacificatribune.com/localnews/ci 8111426

Enter the trashy vortex!

San Diego CityBEAT - CA, January 29, 2008 http://www.sdcitybeat.com/cms/story/detail/enter_the_trashy_vortex/6594/

HANAUMA BAY - Whale Awareness Month presentations each week *

Honolulu Advertiser, January 30, 2008 http://www.honoluluadvertiser.com/apps/pbcs.dll/article?AID=/20080130/NEWS25/801300378/1318/NEWS25

UA Statewide Briefs *

UAA Northern Light - Anchorage,AK, January 29, 2008 http://media.www.thenorthernlight.org/media/storage/paper960/news/2008/01/29/ NewsBriefs/Ua.Statewide.Briefs-3174719.shtml

Litter blights beauty spot

Daily Post - Llandudno Junction,UK, January 29, 2008 http://www.dailypost.co.uk/news/north-wales-news/2008/01/29/litter-blights-beauty-spot-55578-20405449/

Fewer people trashing US roads and beaches

Burlington Hawk Eye - IA, January 28, 2008 http://www.thehawkeye.com/Story/Litter_012708

Forum puts focus on ocean cleanup *

Anchorage Daily News, January 27, 2008 http://www.adn.com/money/story/295505.html

Jan Klippert, coastal cleanup organizer dies

The News Tribune, January 23, 2008 http://blogs.thenewstribune.com/adventure/2008/01/23/p20001

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