Grounded and Abandoned Vessels Ocean Studies Board Corvallis, Oregon

1 il total

Doug Helton National Oceanic and Atmospheric Administration Office of Response and Restoration

Abandoned Vessel Challenges

- Legal
 - Admiralty Law
 - Abandonment
- Technical
 - Engineering Feasibility
 - Disposal
- Scientific
 - Fate and effects
 - Recovery
- Bureaucratic
 - Agency roles and authorities
- Financial
 - Costs





Presentation Outline

- Terminology
- Background
- Scope of Problem
- Threats
- Agency roles
- Legal authorities
- Case histories
- Research Needs



Terminology

• Salvage

- When a vessel or cargo has residual value.
- Removal incentive
- No cure no pay

Wreck Removal

- When vessel or debris has no significant value.
- Contract removal
- Abandonment



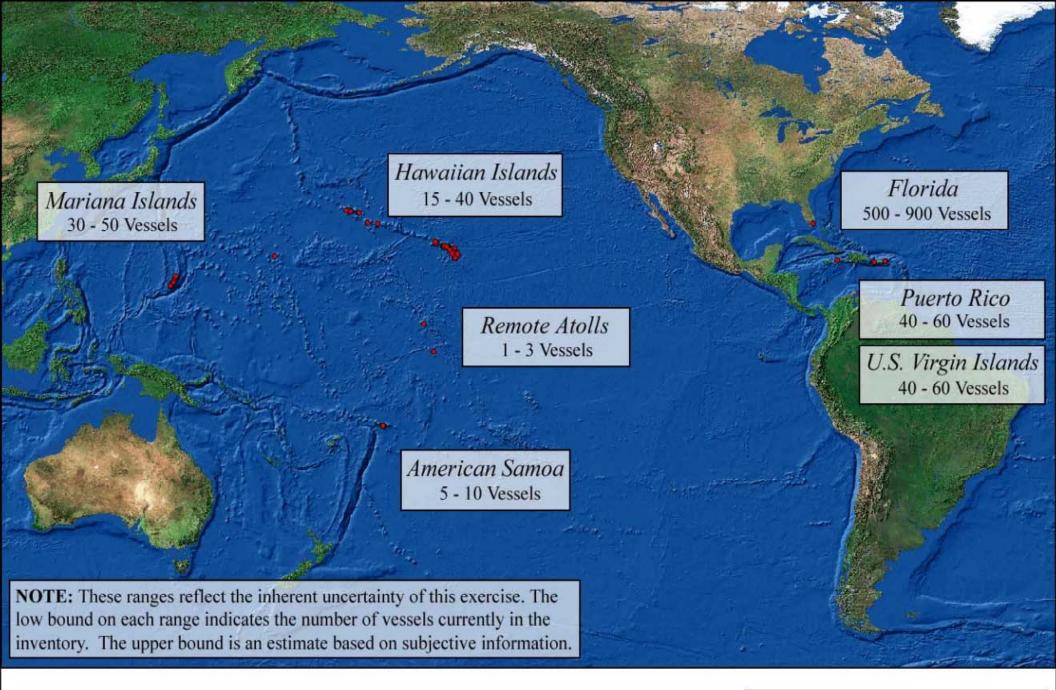


Background

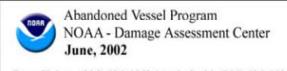
- Pago Pago Longliner removal Project: 1999
- US Coral Reef Task Force Funding
- Database of abandoned vessels affecting corals
- Legal review
- White Paper



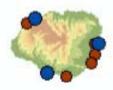


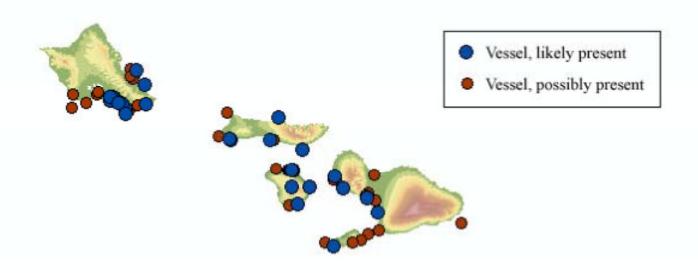


Abandoned Vessel Inventory: Overview of Contents



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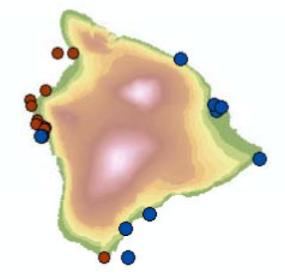
Abandoned Vessel Inventory

Overview of Vessels in the Main Hawaiian Islands

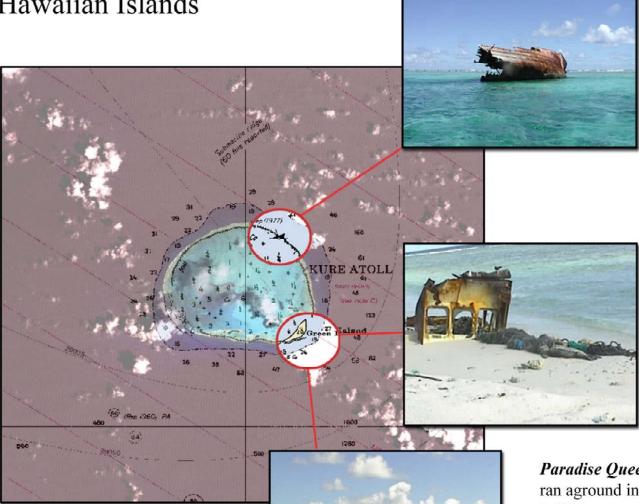


Abandoned Vessel Inventory NOAA - Damage Assessment Center December, 2001

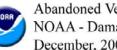
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Kure Atoll Northwestern Hawaiian Islands



Unknown Vessel reported in 1977, hull piece still on reef



Abandoned Vessel Program NOAA - Damage Assessment Center December, 2001

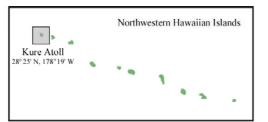
Doug Helton, (206) 526-4563 / Andy Smith (206) 526-4599

Image credits

Center map: LANDSAT 7 image (courtesy of NOAA Sancuaries) overlaid with NOAA Chart 19480, 7th ed. Unknown Vessel: Photo taken by David Canny, used with permission of NOS, NMFS, USFWS, and Hawaii's DLNR Paradise Queen II: NOWRAMP Expedition 2000 and Bernice P. Bishop Museum

Paradise Queen II

ran aground in October, 1998, hull pieces and gear scattered on reef and shore



Database prioritization

- Vessel survey
- Habitat characterization of each site
- Remote sensing
- Coral mapping
- ESI mapping



Abandoned Vessel Inventory Culebra Island, Puerto Rico June 2002

Threat from abandoned vessels

- Physical destruction
- Wildlife entrapment
- Threat of oil spills and other pollutants
- Impediment to navigation
- Illegal dump site
- Nutrient enrichment and invasive species
- Visual eyesore
- Human Health and Safety



Physical destruction of habitat

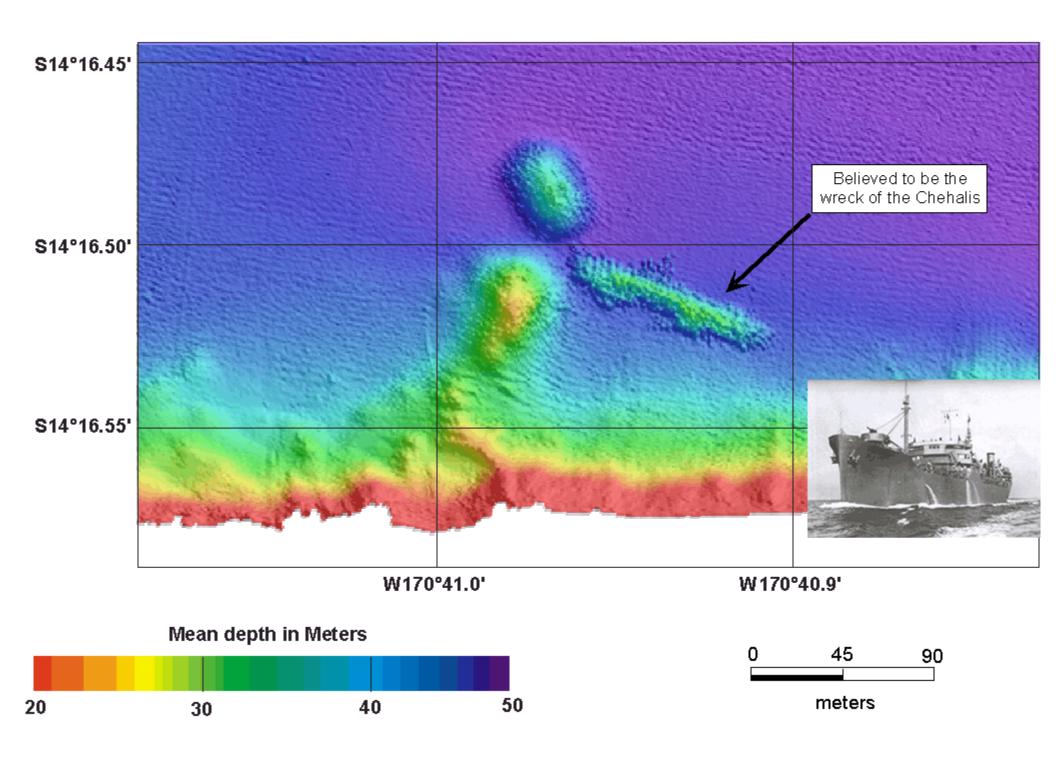


Wildlife Entrapment

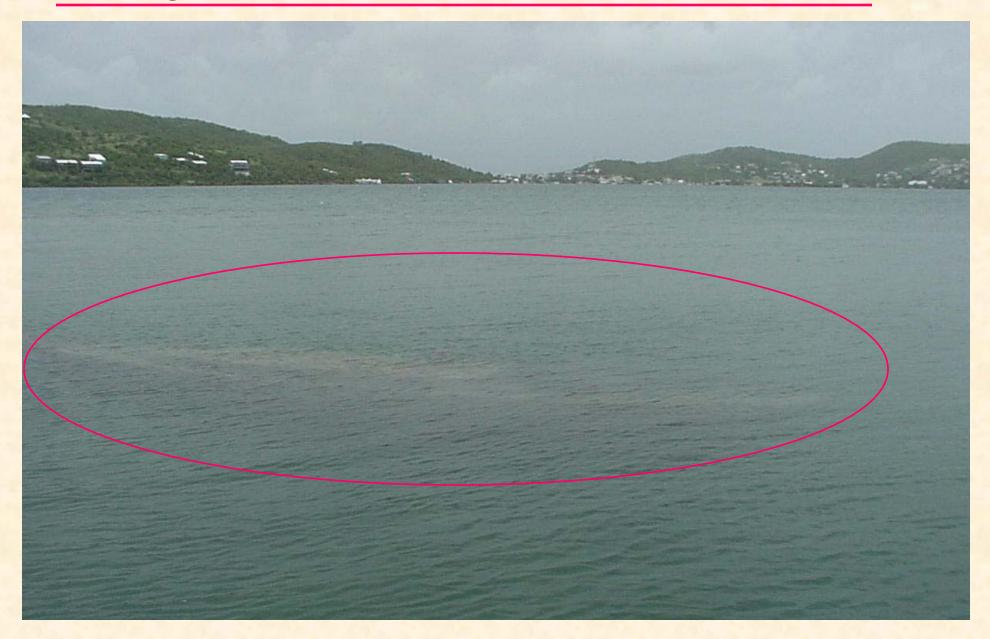
- F/V Paradise
 Queen, Kure
 Atoll, NWHI
- Entrapment of endangered monk seals



Spills of oil and other pollutants



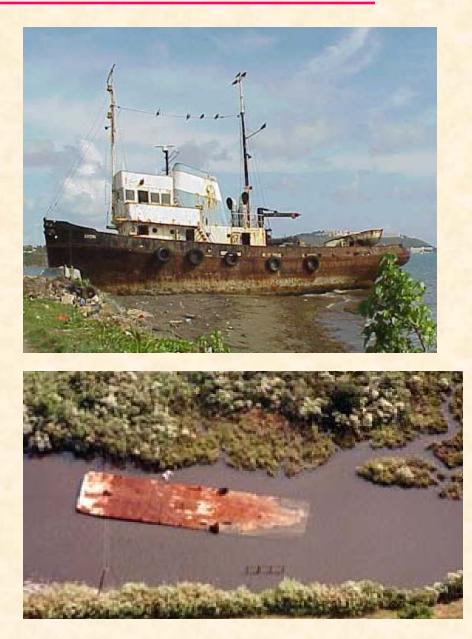
Navigation Hazards



Illegal Dump Sites

- M/V Kimton, Fajardo, Puerto Rico
- Vessel used for illegal dumping of waste oils and explosives

 Abandoned Barge, Louisiana. Potential dumping site



Nutrient Enrichment and Invasive Species

- M/V Milos Reefer, St. Mathews Island, AK
- Concern about introduced rodents
- F/V Jin Shiang Fa, Rose Atoll, Samoa
- Concern about iron
 enrichment





Visual eyesore and loss of tourism

- F/V Van Loi, Kauai
- Oil, debris, and fishing gear spread along hotel beach





Human Health and Safety



Federal Agency Responsibilities

- No single agency has clear authority and funding to address abandoned vessels in all circumstances
- Coast Guard
- Army Corps of Engineers
- NOAA
- DOI
- EPA
- Navy



Federal Legal Authorities

- Admiralty Law
- The Oil Pollution Act and Clean Water Act
- The National Marine Sanctuary Act
- The Rivers and Harbors Act
- Abandoned Barge Act of 1992
- The Abandoned Shipwreck Act
- Intervention on the High Seas Act
- The Park System Resource Protection Act
- The Endangered Species Act

(05-16358-6)(8-18-36-11:40A)(10-500) USCEG55 'FATHOMER' AGROUND PORT 5. VICENTE, LUZON PI.

Admiralty Law

- Incidents involving vessels generally fall under admiralty law
- Historical focus on commerce and protection of shipowners rights rather than the environment



Admiralty Law (cont.)

- States cannot alter the "characteristic features" of admiralty law
- Sunken, grounded vessels assumed not abandoned by owner
- Liability not strict, based on fault



Case Histories

- Jin Shiang FaSwordman I
- S/V Karma

F/V Jin Shiang Fa

 American Samoa: Rose Atoll National Wildlife Refuge, October 1993

- 100,000 gallons diesel spilled; Salvage effort ceased after insurance ceiling reached
- Vessel broke apart spreading debris over 175,000 m² of reef and causing chronic reef impacts

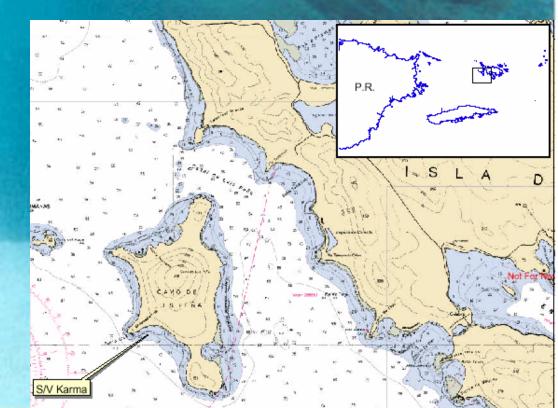


F/V Swordman I

- Pearl and Hermes Reef, NWHI'
- June 5, 2000
- 10,000 gallons of diesel, 70 miles of longline gear
- Removed and scuttled in 6,000 feet of water
- Response covered by OPA trust fund

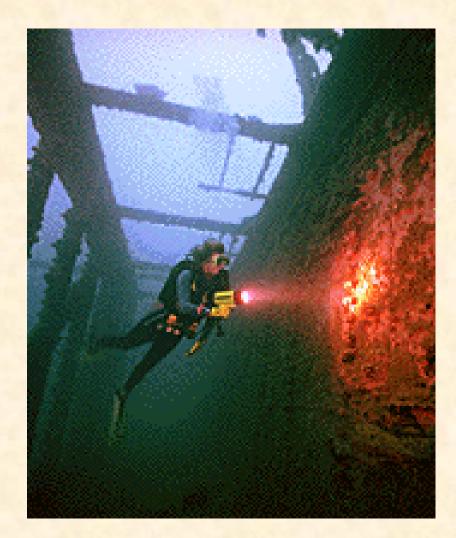
S/V Karma

- Fajardo, Puerto Rico, Summer 2000
- Intentionally scuttled w/o permits to create an "eco-tourism" venue
- Seagrass and coral habitats at risk
- Vessel remains
 - no pollution threat
 - no threat to navigation
 - abandoned?



Potential Solutions

- Increase Prevention
 Measures
- Increase removal and restoration authorities, create liability disincentives, and dedicated funding
- Seek funding to remove high risk vessels



Research Needs

- Broader understanding of the scope of problem and vessel locations
- Fuel and Cargo impacts
- Nutrient Enrichment
- Fate and longevity of sites
- Salvage technology
- Disposal and ship-breaking issues
- Historic values
- Habitat creation vs. pollution risks

