USFWS Region 4 AIS Program: addressing aquatic invasive species

Presented to
SOUTH ATLANTIC FISHERY MANAGEMENT COUNCIL

Ecosystem-Based Management CommitteeDecember 5, 2011







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Who is speaking...

- 2010- current, USFWS R4 Fisheries AIS Coordinator/ SARP ANS Coordinator (Atlanta, GA)
- DoN NavFac Pacific: Micronesia Biosecurity Plan,
 Regional Invasive Species Specialist (Hawaiian Islands Japan- Diego Garcia)
- USFWS R1 ES Invasive Species Specialist (Honolulu, HI)
- USFWS R8 Fisheries AIS/ NIS Coordinator, Sup Fish Biologist (Stockton, CA)
- 13 years Federal, 10 years invasive species

Objectives

The Issue

Coordination and Partnerships

Raise awareness on types of project

Invasive Species

- As reported in the USGS 2001, Summary Report of Nonindigenous Aquatic Species in U.S. Fish and Wildlife Service Region 4, the Southeast Region has documented non-native fishes (231), crustaceans (33), mammals (1), mollusks (22), and freshwater vascular plants (60).
- Cost an estimated \$120 billion annually in economic loss due to invasive species (Pimental et al. 2005).
- Florida spends about \$14.5 million each year on hydrilla control (Center et al., 1997). Despite this large expenditure, hydrilla infestations in just 2 Florida lakes have prevented their recreational use, causing \$10 million annually in losses (Center et al., 1997; rev. in Pimental et al., 2005).
- Impact nearly half of the species currently listed as Threatened or Endangered under the U.S. Federal Endangered Species Act. (Wilcove et al. 1998).



Legislation

- Nonindigenous Aquatic Nuisance Prevention and Control Act of 1990;
- National Invasive Species Act of 1996;
- Executive Order 13112, 1999;
- Brown Tree Snake Control and Eradication Act of 2004;
- Many Bureau and Agency directives



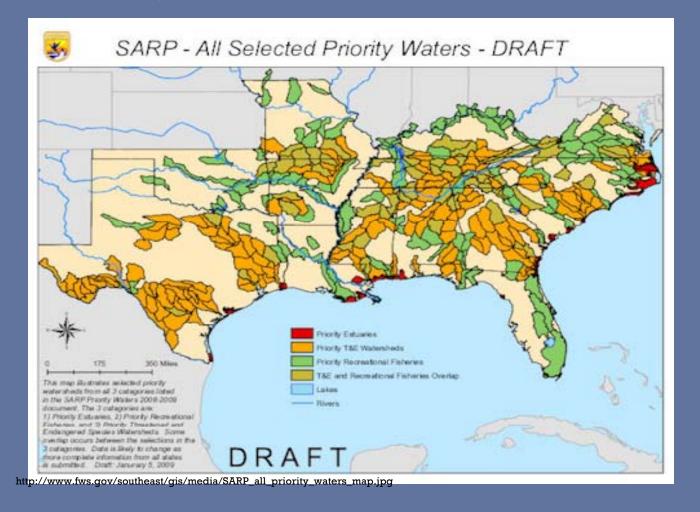
USFWS Region 4, Southeast Region





http://www.fws.gov

SOUTHEAST AQUATIC RESOURCES PARTNERSHIP http://images.gofishn.com/media_files/66533/SARPLogoColor_no_quote_300d pi.jpg





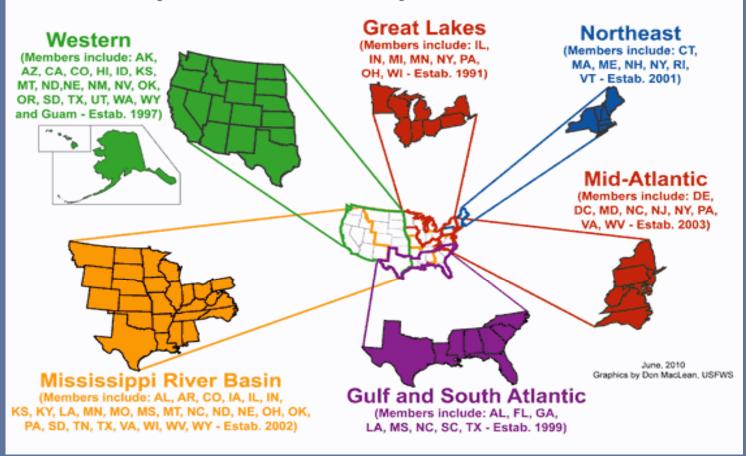


http://www.anstaskforce.gov/default.php

- •Co-chairs USFWS and NOAA
- •Approves State ANS Plans
- •Implements Ad-hoc Committees for and approves species Control Plans
- •Regional Panels provide recommendations to ANSTF

ANSTF Regional Panels

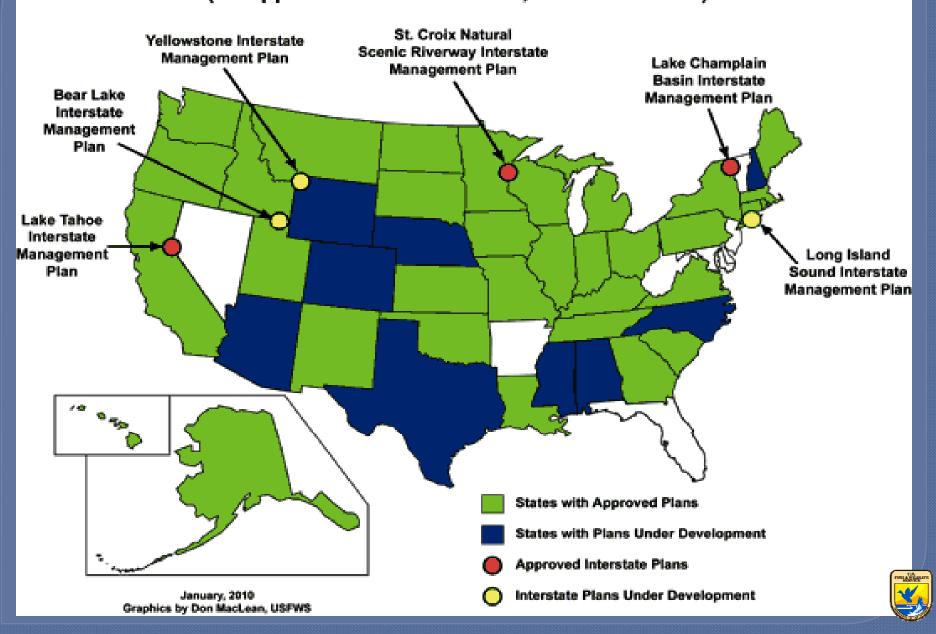
The Regional Panels of the Aquatic Nuisance Species Task Force





Status of State ANS Management Plans

(36 Approved Plans - 33 State, and 3 Interstate)



Lionfish and Marine Fishes

- **USGS--**Non-native marine fishes: An emerging threat in the Southeastern US
- NOAA/ USVI Division of Fish and Wildlife
 --A ciguatera survey for invasive lionfish in
 - --A ciguatera survey for invasive lionfish in the USVI
- REEF--Lionfish Impacts on FL Keys
 Commercial Lobster Fishery and Lionfish
 Public Outreach and Control Programs for
 Florida



USFWS/ NOAA/ NPS/ USGS/ REEF/
GSMFC- Invasive Lionfish Control Ad-hoc
Committee



Invasive Lionfish National Management Plan (October 2010-Nov 2011)

Lionfish issue raised by partners

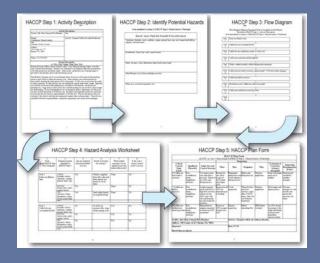
Ad-hoc Committee expands and begins working on National Management Plan Pull together Lionfish SME and present to GSARP

Invasive Lionfish Control Ad-hoc Committee recommendation to ANSTF to work on National Management Plan Lionfish issue raised by GSARP to ANSTF

Invasive Lionfish Control Ad-hoc Committee Lionfish issue
presented to ANSTF
and recommend a
Lionfish Ad-hoc
Committee

Value of HACCP

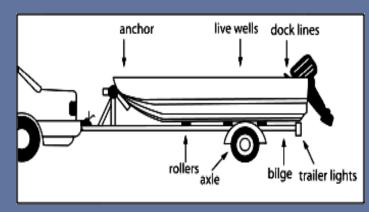
- Hazard Analysis Critical Control Point (HACCP) planning is a tool that can help reduce the risk of moving invasive species unintentionally
- HACCP is pathway focus
- HACCP process can be useful for many activities (e.g., field sampling, site visits, road and trail maintenance)
- Training: NPS, USFWS, TVA and future— CISMAs, others





Understanding pathways and risk: do we understand the risks

- AIS usage of FADs
- Oil Platforms and vessels with biofouling
- Port/ Harbor AIS Surveys to establish baseline
- Aquaculture



http://www.dnr.sc.gov/regs/images/boattrailer.gif



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National ANS Hotline and USGS website: resources for reporting aquatic invasive species





Information on All Invasive Lionfish Sightings

(Please Note the Location [GPS Coordinates] and Take a Photo If Possible)

To report a lionfish online go to http://nas.er.usgs.gov/sightingreport.aspx

or call: 1-877-STOP-ANS







