



NOAA's Update: Aquatic Invasive Species



*Margaret M. (Peg) Brady, DOC/NOAA Senior Policy
Liaison to NISC & ANSTF
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NOAA Highlights and Activities

- National Ocean Policy
- Commerce, Justice, Science, & Related Agencies Appropriations Bill, 2013
- NOAA Habitat Restoration Project Solicitations:
 - Great Lakes Restoration Initiative (GLRI)
- Draft NOAA Lionfish Action Plan
- National Sea Grant – Aquatic Invasive Species Projects – Progress Updates
- Ongoing NOAA Actions



National Ocean Policy Implementation Plan

Draft National Ocean Policy Implementation Plan

National Ocean Council



An America whose stewardship ensures that the ocean, our coasts, and the Great Lakes are healthy and resilient, safe and productive, and understood and treasured so as to promote the well-being, prosperity, and security of present and future generations.

- Established by Presidential Executive Order on July 19, 2010
- Nine National Priority Objectives that embrace coordination and integration among all levels of government to address pressing issues such as climate change and ocean acidification.
- On January 12, 2012, the National Ocean Council released a draft *National Ocean Policy Implementation Plan* for public comment.
- The draft *Implementation Plan* describes more than 50 actions the Federal Government will take to improve the health of the ocean, coasts, and Great Lakes.



National Ocean Policy continued

Draft AIS actions & milestones are within *Regional Ecosystem Protection and Restoration Priority Objective*.

Action 5: Locate, control, and, where possible, eradicate invasive species populations.

Milestones:

- Analyze potential models and identify strategic gaps and opportunities, with the ANSTF, to improve our ability to conduct EDRR operations. (NISC; 2013)
- Develop the processes for requesting EDRR proposals and evaluation criteria in concert with the ISAC, ANS regional panels, and Federal invasive species program experts. (NISC, ANSTF; 2013)
- Develop mechanisms to facilitate public–private partnerships such as Memoranda of Understanding and related joint planning documents, and submit them for review and approval by participating entities. (NISC; 2013)
- Identify potential Federal and non-Federal funding sources that can contribute to the funding of a pilot-scale request for proposals. (NISC; 2013)
- Review the initial round of pilot-scale proposals, and report on the pilot program’s effectiveness and make recommendations for its continued improvement. (NISC, ANSTF; 2014)



Commerce, Justice, Science, & Related Agencies Appropriations Bill, 2013

“Marine invasive species.—The Committee encourages National Marine Fisheries Service (NMFS) to strengthen partnerships with states and interstate fisheries commissions on the management and research of marine invasive species.” (p.23)

http://appropriations.house.gov/UploadedFiles/CJS-FY13-FULL_COMMITTEE_REPORT.pdf



NOAA Actions:

Great Lakes Restoration Initiative (GLRI)

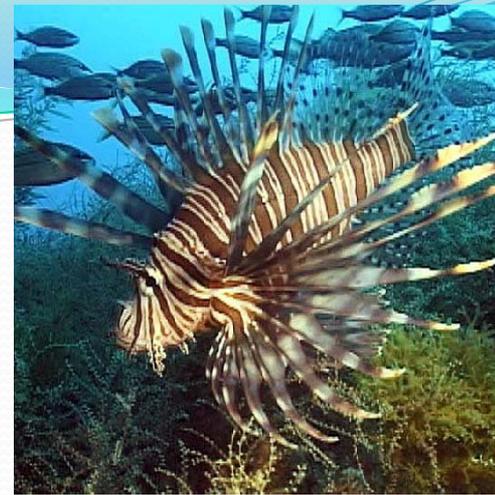


- Funding was received from the Environmental Protection Agency through President Obama's Great Lakes Restoration Initiative.
 - In 2010, NOAA awarded \$9.2 million to nine projects throughout the Great Lakes Region.
 - In 2011, NOAA awarded \$4.9 million to eight projects throughout the Great Lakes Region.
 - For 2012, NOAA is currently reviewing proposals, up to \$5 million is anticipated for Great Lakes coastal habitat restoration
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- All GLRI projects include a Special Award Condition for Invasive Species: including development of an HACCP plan & post-project monitoring
 - For more information visit:
http://www.regions.noaa.gov/great_lakes/GLRI/Habitat/habitat.html



Draft NOAA Lionfish Action Plan

The Indo-Pacific lionfish has become widely established within Atlantic and Caribbean waters and poses a significant threat to native coral reef communities. NOAA is the final stages of completing an action plan to respond to this invasion.



The goal of Plan is to understand and mitigate lionfish impacts on U.S. marine ecosystems and providing U.S. leadership to a Caribbean-wide response. To achieve this goal, the plan strives to:

- Identify the most critical actions needed to target management measures and minimize impacts from the invasion
- Develop implementation plans that include leads and supporting entities.

The Action Plan has four sections:

- Summary the knowledge gained in the ten years since lionfish have invaded the Atlantic Ocean
- Description of the ecosystem impacts from the invasion
- NOAA's goals and approach in moving towards the management phase of the invasion
- High level actions to be taken and the approach to accomplish the tasks.



NOAA Actions:

National Sea Grant Aquatic Invasive Species Updates

Sea Grant West Coast:*

"A Predictive Approach to Risk Analysis and the Economics of Early Detection and Rapid Response for Aquatic Invasive Species "

- Developed a model that predicts risk for aquatic invasive species establishment within watersheds in the Pacific Northwest.
- Models have been developed for the New Zealand mudsnails and Eurasian watermilfoil

"Eliminating invasive species and promoting use of native species in the schools pathway."

- Produced care, handling and "do not release" and alternatives to release instructions
- Teacher resources that are being distributed by biological suppliers beginning Fall 2011
- Several Biological Supply Houses in the west have started shipping native crawfish.

"Watersheds and Invasive Species Education (WISE) Workshops".

- Provides teachers with training, materials, and financial support to incorporate invasive species concepts into their classroom activities

* Projects listed above were multi-year grants awarded in 2010



NOAA Actions:

National Sea Grant Aquatic Invasive Species Updates

Sea Grant Mid-Atlantic*:

"Preventing Aquatic Invasive Species through Vector Management: Live Bait Vector"

- MD Sea Grant extension teams have compiled information on bait distributors, bait dealers, and angler locations throughout the mid-Atlantic
- The data is being used to generate a database that will be used by SERC, UMD, and Sea Grant for survey, outreach, and educational planning.

Early Detection and Rapid Response Plan

- Being prepared by the CT Aquatic Nuisance Species Working Group

Sea Grant Southeast Atlantic/Caribbean:**

- Florida Sea Grant to lead a regional research and outreach effort addressing the spread of lionfish in the southeast Atlantic and Caribbean regions.

Sea Grant Northeast Atlantic:**

- MIT Sea Grant to lead a regional research and outreach effort addressing the mitten crabs.

* Projects listed above were multi-year grants awarded in 2010

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NOAA's ongoing AIS actions

Prepared a White Paper on Incentivizing the Harvest of AIS – Susan Pasko developed a draft white in collaboration with FWS on behalf of ISAC.

Hazard Analysis & Critical Control Point (HACCP) Planning to Prevent the Spread of Invasive Species: updating and revising the Hazard Analysis & Critical Control Point (HACCP) planning process to increase its benefit in preventing the spread of invasive species and continue to offer HACCP training sessions to staff and grant recipients.

Asian tiger shrimp sightings prompts scientific look at invasion concerns: Researchers from the USGS and NOAA are working with state agencies from North Carolina to Texas to look into how Asian tiger shrimp from Indo-Pacific, Asian, and Australian waters reached U.S. waters, and what the increase in sightings means for native species. (http://www.noaanews.noaa.gov/stories2012/20120426_tigershrimp.html)

