

Great Lakes Restoration Initiative

**Accomplishments
&
Opportunities**

Great Lakes Aquatic Nuisance Species Panel
and ANS Task Force Meeting
Traverse City, USA -- May 4, 2016

Find a GLRI Project

Use the map below to find GLRI project information. Or, see a [list of all GLRI projects](#).

(Note: the points on the map show the actual location of the project and/or the location of the entity managing the project.)

Enter a location (such as area of concern or watershed) or a project name in the search box. Select a year and click Search to query.

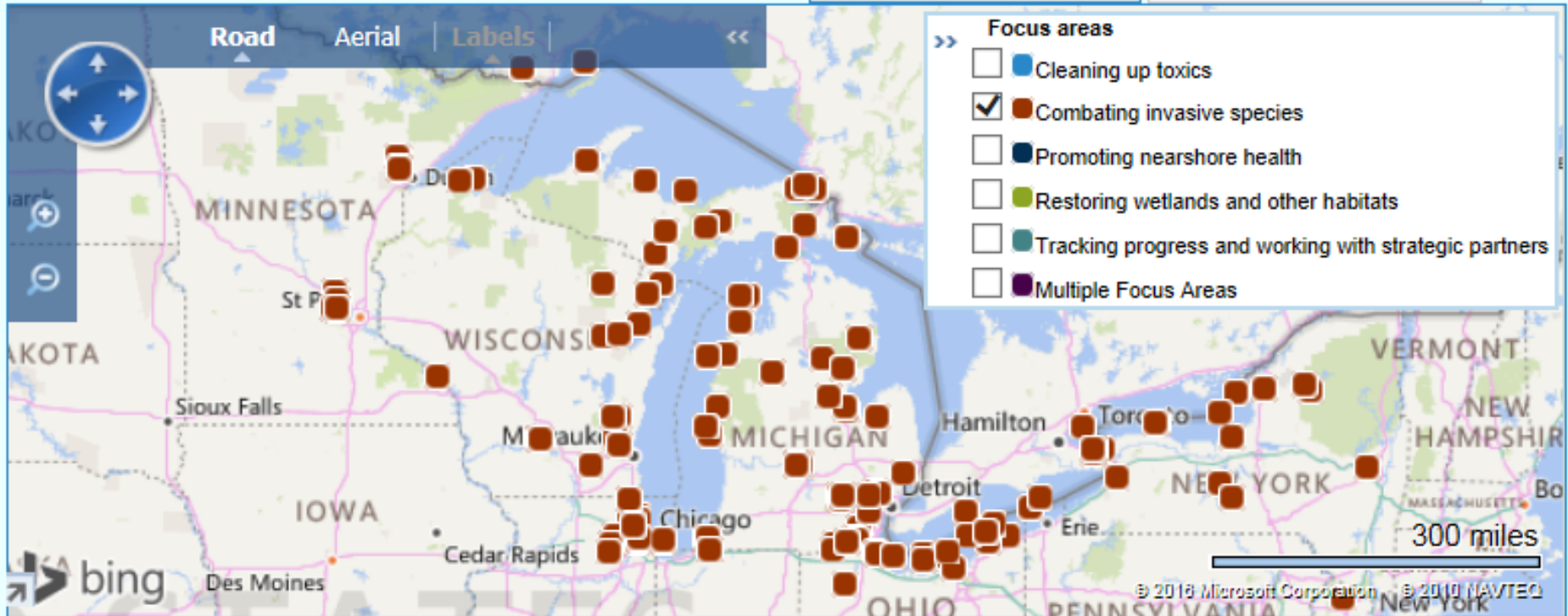
Year: 2015

Search Results for: : All Grants

Results found: | Current view: 326 | [Clear Results](#)

[Search results on map](#)

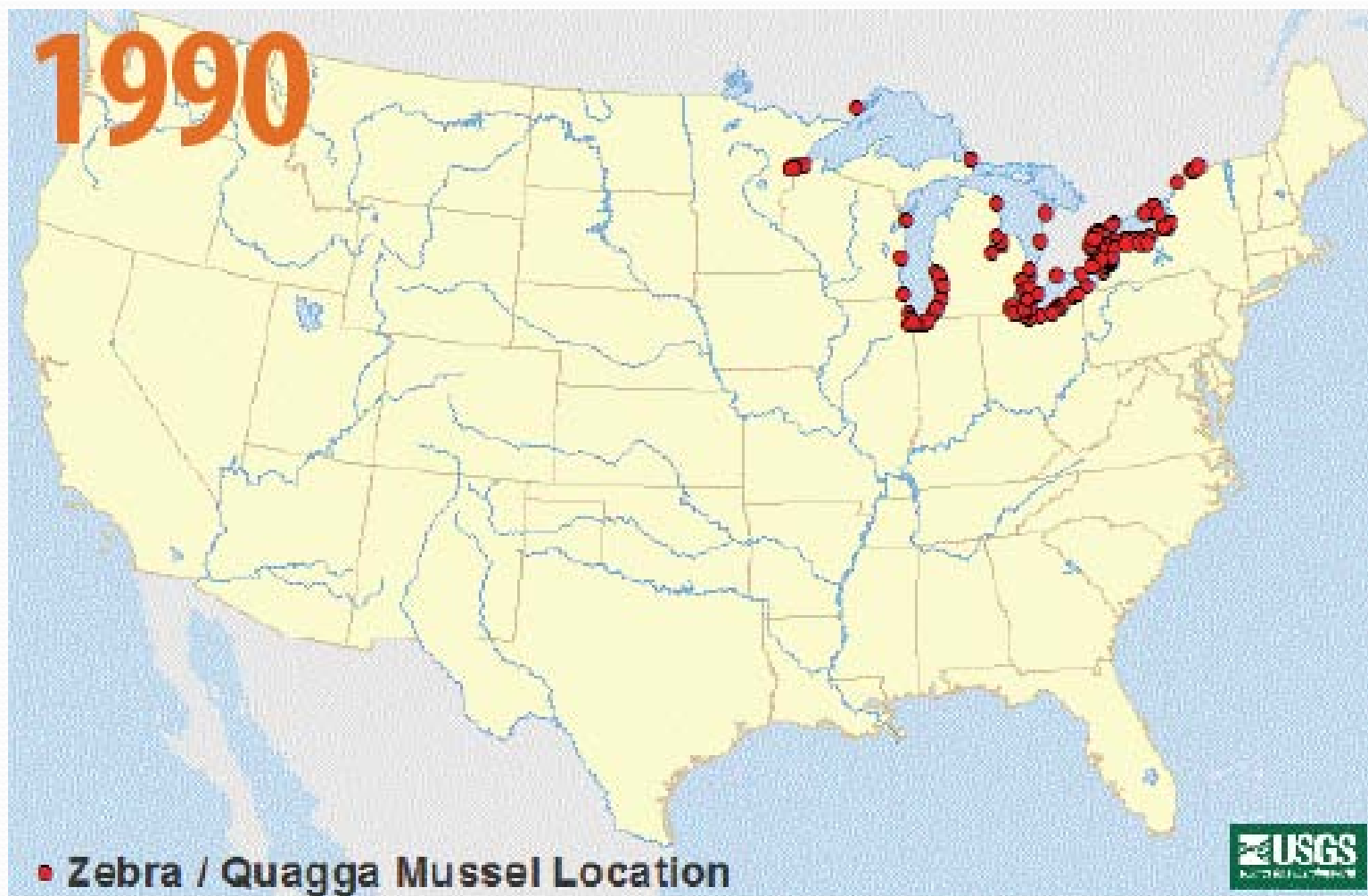
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Overview of the GLRI

- How do I get my GLRI? (22 years in 2 minutes)
- Accomplishments – overview of the GLRI and some key invasive species activities
- Opportunities – future efforts we can work together on with GLRI support

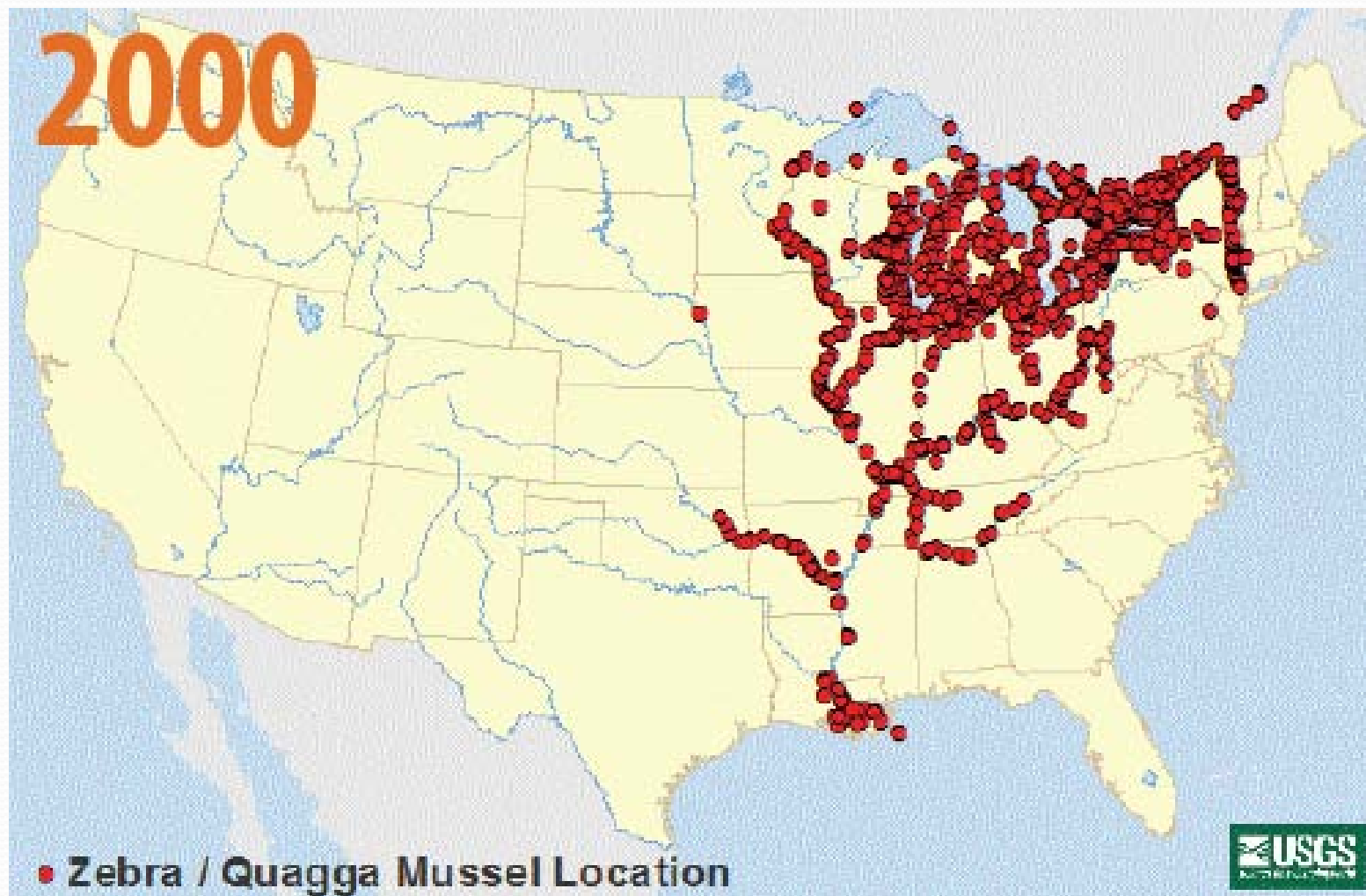




*Great Lakes ANS Panel:
synthesis of science and
consistent messages on
impact of invasive species.*

Great Lakes Aquatic Invasions

Aquatic Invasive Species Prevention and Control:
Outreach, Research, Management and Policy



Great Lakes Strategy 2002

A PLAN FOR THE NEW MILLENNIUM

*A Strategic Plan for the Great Lakes Ecosystem
Developed by the U.S. Policy Committee for the Great Lakes*



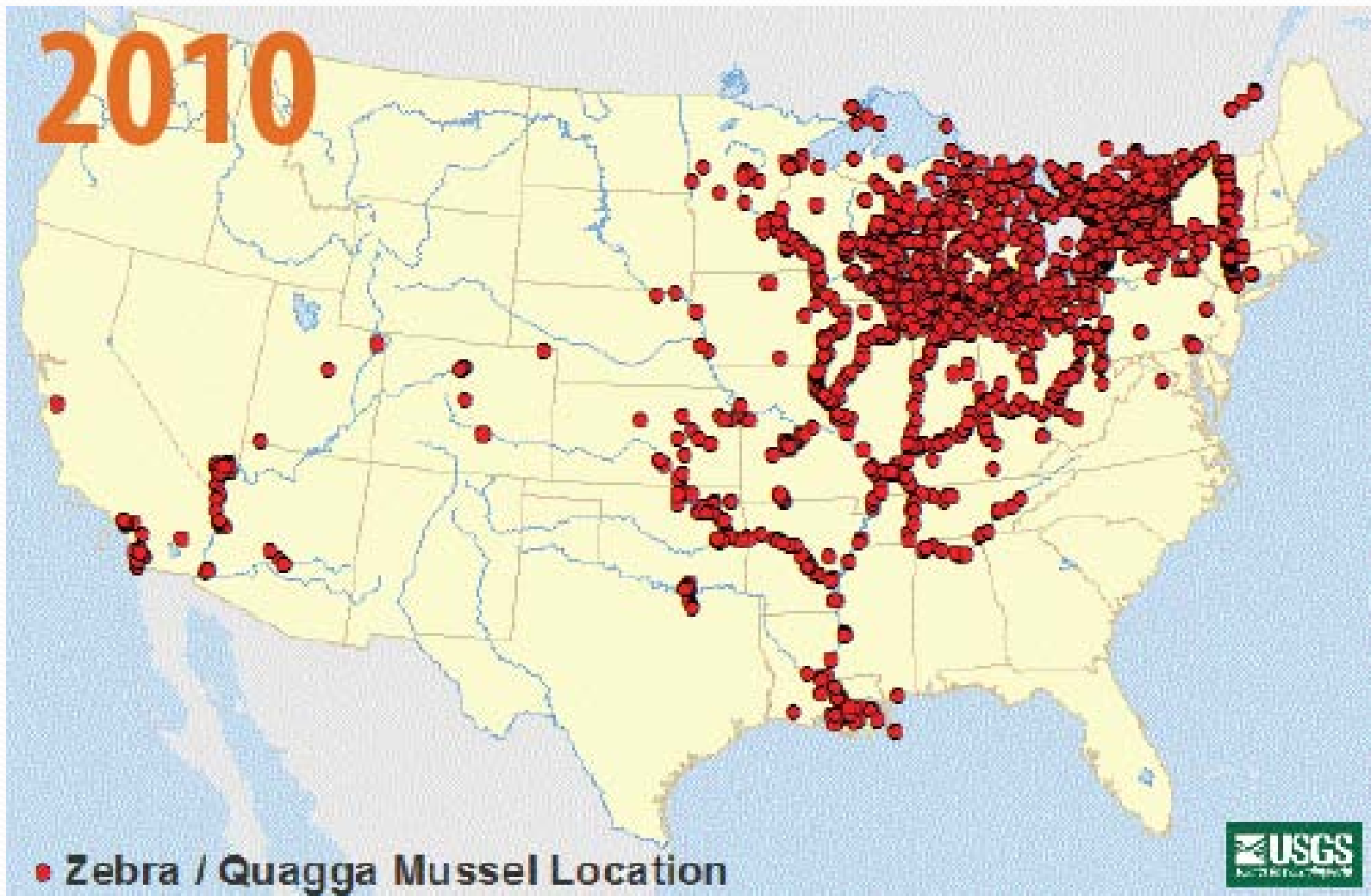
Great Lakes Regional Collaboration Strategy



Great Lakes Interagency Task Force



- Strategy Team Recommendations
 - Aquatic Invasive Species
 - Habitat/Species
 - Coastal Health
 - AOC/Sediments
 - Nonpoint Source
 - Toxic Pollutants
 - Indicators and Information
 - Sustainable Development





United States Geological Survey

Great Lakes RESTORATION



Great Lakes Interagency Task Force



Cleaning up Great Lakes Areas of Concern

Preventing and Controlling Invasive Species

Reducing Runoff that Contributes to Algal Blooms

Restoring Habitat to Protect Native Species

Science-Based Adaptive Management

Challenges...

Challenges / Limitations

- Invasive Species a huge issue... could spend all of GLRI on it!
- No new invasive species authorities.
- Must use existing federal authorities to direct spending.
- Year-by-year funding, uncertainty.

Accomplishments through the GLRI...

Invasive Species

Prevent new introductions
of invasive species

Control established
invasive species

Develop invasive species
control technologies
and refine management
techniques

Total Funding ~\$40,000,000

Prevent new introductions
of invasive species

30% Asian Carp
30% Prevention
and Early Detection

Control established
invasive species

25% Control

Develop invasive species
control technologies
and refine management
techniques

15% Technology and
Species-Specific
Collaborations

Prevention

Before:

- Some pathway work.
- Limited early detection monitoring / limited examples of rapid response.
- No Asian Carp Response

Through GLRI:

- Canals and waterways; Recreational boating; Commercial shipping; Illegal Trade of banned species; Release of aquarium species; Release of live bait.
- Conventional and molecular/genetic monitoring. 10+ responses per year.
- Asian Carp Action Plan



Vectors of Transport

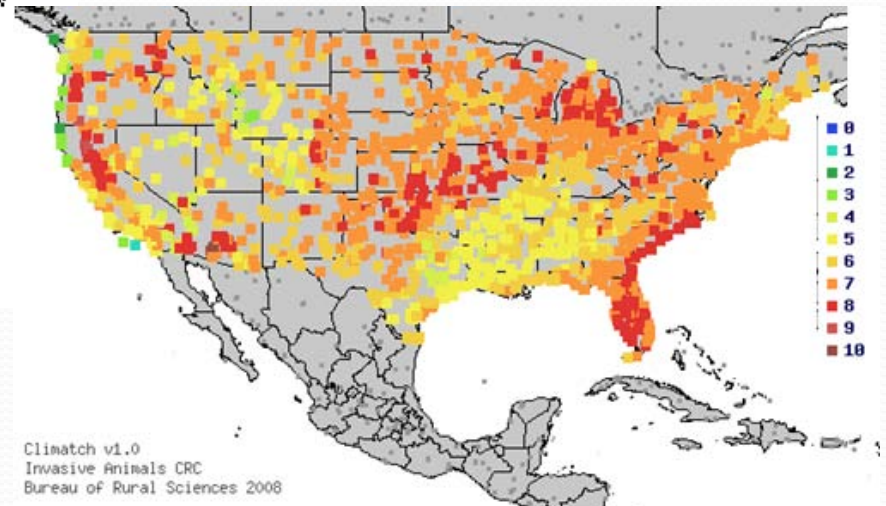
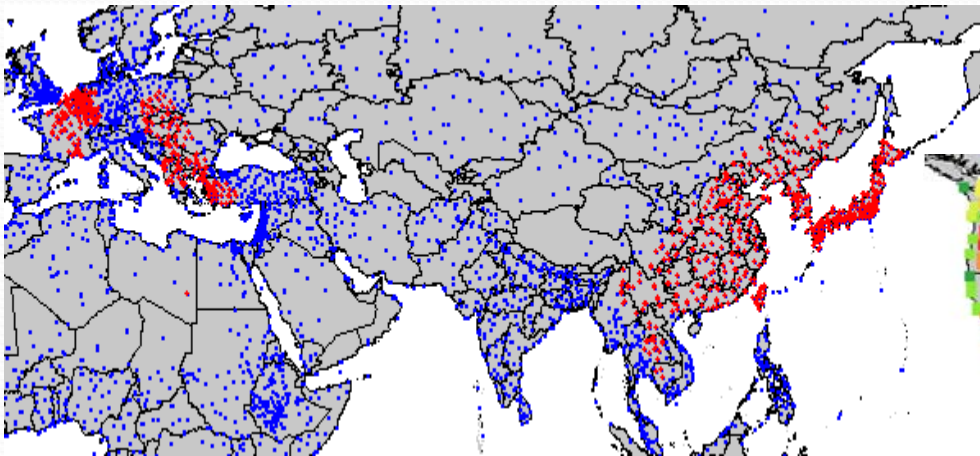


Recreational Boating



Species Risk Assessments

- Vast increase in through-put of risk assessments:
 - Before: limited risk assessments.
 - Through GLRI: ~100 risk assessment each year



Control

Before:

- State ANS Management Plan funding: \$30K/State each year.
- Example: EPA Competitive Grants for IS: ~\$200K/yr

Through GLRI:

- Great Lakes States: >\$5M (+ \$Carp) year in activities
- Communities: >\$5+M year for control plus stewardship beyond funding period
- **Over 100,000 acres of GLRI control activities or 150 square miles!**



Technology (and Collaborations)

Before:

- Treatment technology performance largely unknown.
- Informal collaboration among professionals and stakeholders

Through GLRI:

- 20+ promising systems, type approval of systems soon.
- Informal collaborations continue, plus:
 - (Asian Carp)
 - Phragmites
 - Monecious Hydrilla
 - Invasive Mussels



Future Opportunities...

Linking Detection and Response

- Detection has become easier with increased effort and new monitoring techniques.
- Response and eradication remains a daunting challenge!
 - Reasonable expectations!
 - Supporting organizations that attempt eradication.
 - “Horsepower” – we all help out.
 - Adaptive Management – learning from each attempt.

Expansion of Collaborations

- What is the next species that merits a Species-Specific Collaboration?
- “Technology Collaborations”? – e.g. genetic markers and/or genomic tools?

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