

GREAT LAKES AND MISSISSIPPI RIVER INTERBASIN STUDY



AQUATIC NUISANCE SPECIES



**ECOSYSTEMS** 





RECREATION

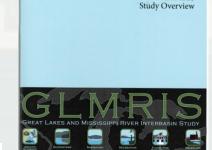


FLOOD RISK MANAGEMENT



WATER USE

#### **Materials**



**GLMRIS** 

US Army of Engine



SUBMITTING PERSONAL INFORMATION: You must submit your first name, last name and zip code for your comment to be considered. Any other information is outlined. WITHHOLDING OF PERSONAL INFORMATION: Before including your address, phone number, e-mail address or other personal information with your comment, you should be aware that your entire submittal, including your personal information, will be posed on the GLARIES Web site and included in the National Environmental Policy Art NIPED documents.

However, information withheld from the Web site and NEPA documents will be disclosed if required by law. Requests for disclosure of information coefficied will be handled through the Freedom of Information Act. Comments and information, including the identity of the sthemine, may be disclosed, reproduced, and distributed. Submissions should not include my information that the submitter seeks to preserve as confidential.

Public Scoping Meeting Location:

#### GLMRIS

The objective of the Feasibility Study is to investigate and a Manual, November 1996, IWR Report 96-R-21) (p. 231)

2. What is the study organization for GLMRIS?

- 3. How is the project funded?
- 4. Who are the Stakeholders for GLMRIS?

A stakeholder is someone with an interest in the outcome of a recommended course of action. The stakeholders are crucial to the specification of problems and apportunities. Identifying the stakeholders is the first important step in moving them in the process. Stakeholders for GIARIST includer-Federal, state, and local agencies. Native American Indian Tibes, non-governmental organizations, and the public (Planning Marual, November 1909, Africa post 96-R-21) (p. 246)

The Corps will produce a comprehensive feasibility report and an Environmental Impact Statement (EIS) that would serve as the basis for the Chief of Engineer's Report to Congress upon completion of all review and approval processes. The report will document study findings and include a

#### What is the duration of the Study?

t it take until 2015 to complete the

#### OTHER ANS EFFORTS

Barrier II has been operational since 2002. Barrier II was placed into full-time operation in 2009. Barrier IIB will be turned on for operational start-up lesting in December 2010 to determine if Barrier IIB in operating as designed. Once operational testing is successfully completed, safety testing will be conducted. The safety testing is obselded for January and February 2011.



GLMRIS NEPA Scoping Oral Comment Registration Form

SUBMITTING PERSONAL INFORMATION: You must submit your first name, last name and zip code for your comment to be considered. Any other information is optional.









# **Great Lakes & Mississippi River Interbasin Study GLMRIS**

GLMRIS Team
USACE Great Lakes & Ohio River Division;
Mississippi River Valley Division





## **Asian Carp Control Update**

John Goss Jim Bredin Council on Environmental Quality

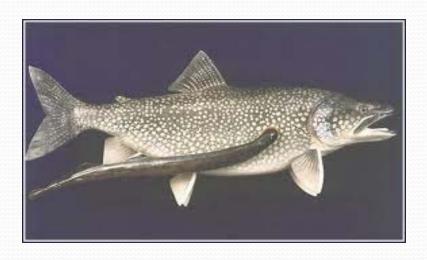
## Background



## Other Aquatic Invasive Species

Zebra Mussel in the 1980's

Sea Lamprey in the 1920's





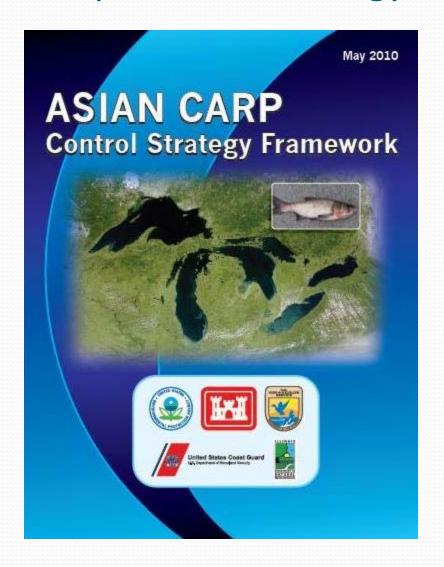
Quagga Mussel in the 1980's



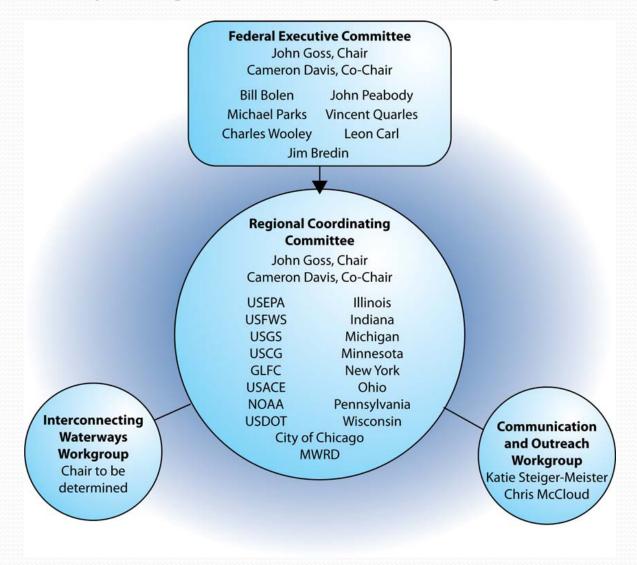
## **Eaters and Breeders**



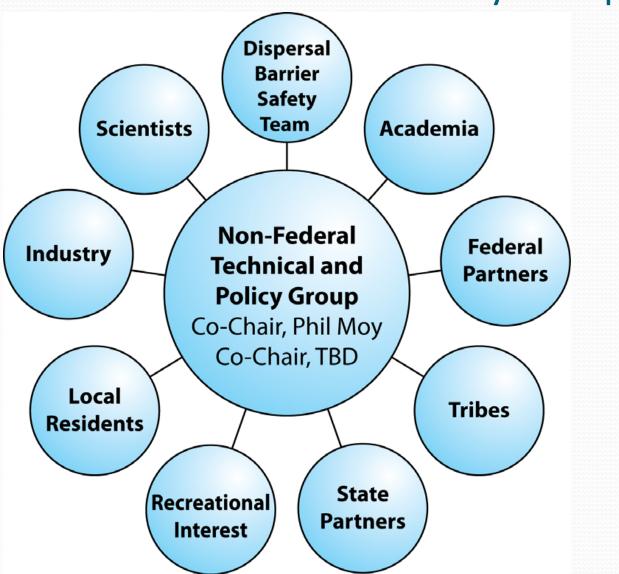
### 2010 Asian Carp Control Strategy Framework



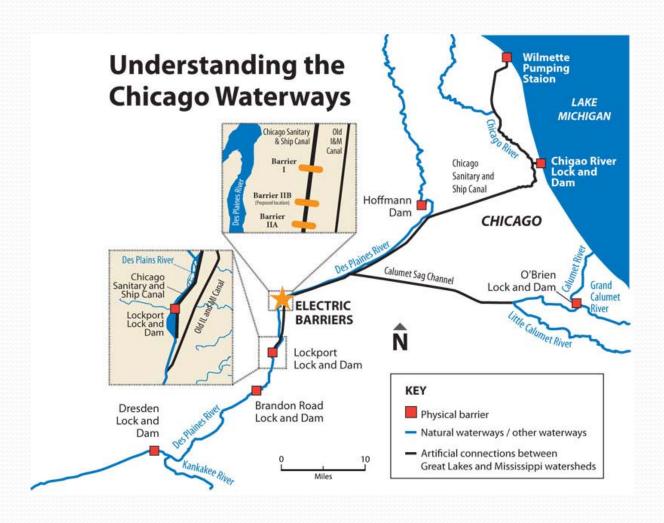
### Asian Carp Regional Coordinating Committee



### Non-Federal Technical and Policy Group



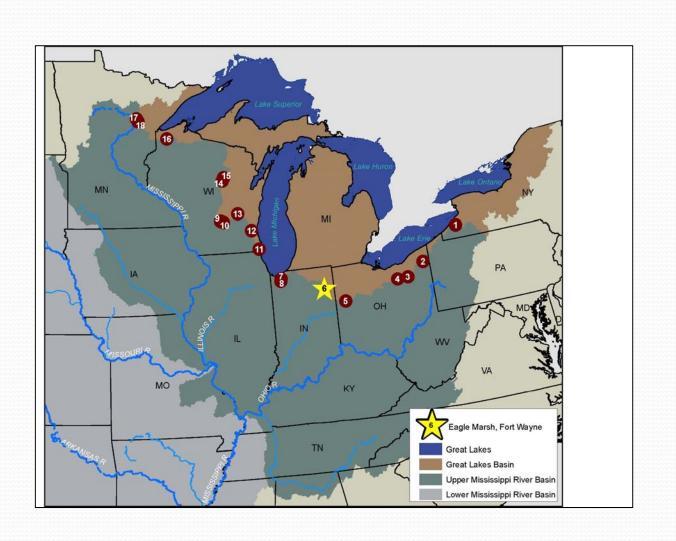
## Key 2010 Accomplishments



## Key 2010 Accomplishments



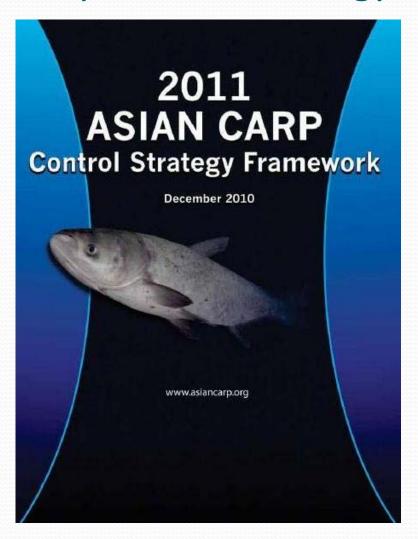
## Key 2010 Accomplishments



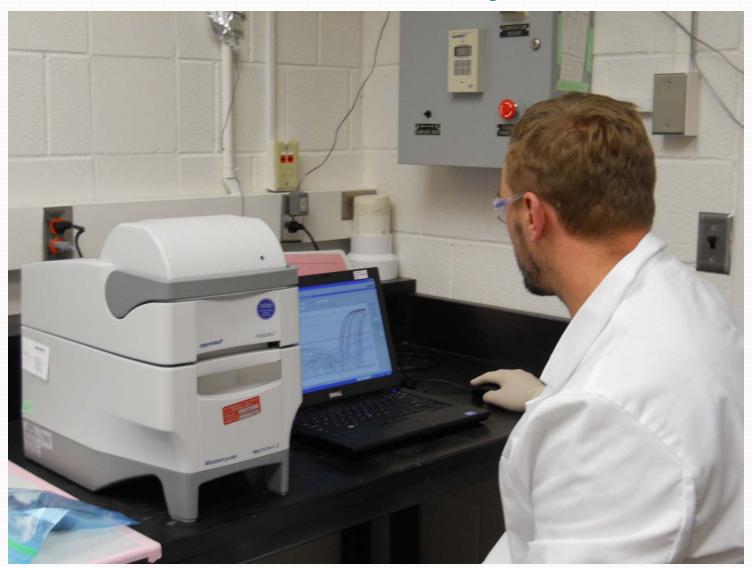
## Other Key 2010 Accomplishments



### 2011 Asian Carp Control Strategy Framework

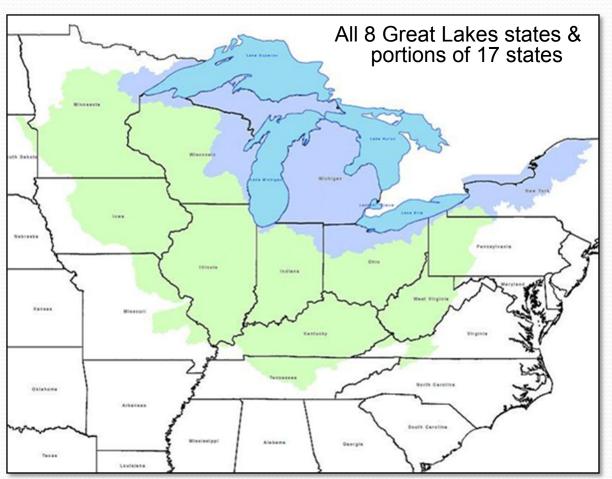


## New 2011 Projects



## New 2011 Projects





### Focus Area I: Chicago Area Waterways

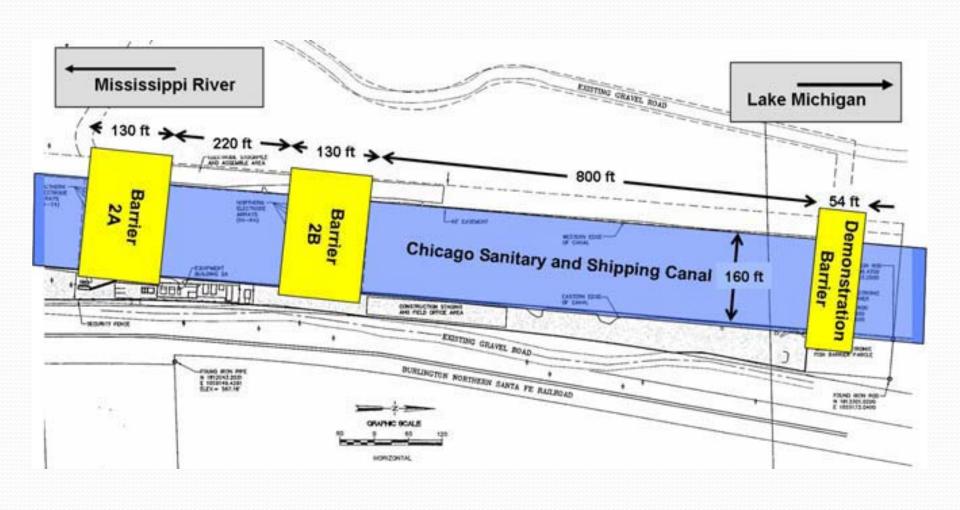
- > Establish w/o Project Conditions
  - ➤ Baseline Data
  - **≻**Reports
  - **>**Surveys
- > Feasibility Report
- > Environmental Impact Statement
- > Record of Decision

### Focus Area II: Other Connections

- ➤ Prelim Risk Characterization
- >Final Risk Characterization
- ➤ Detailed Project Report(s)

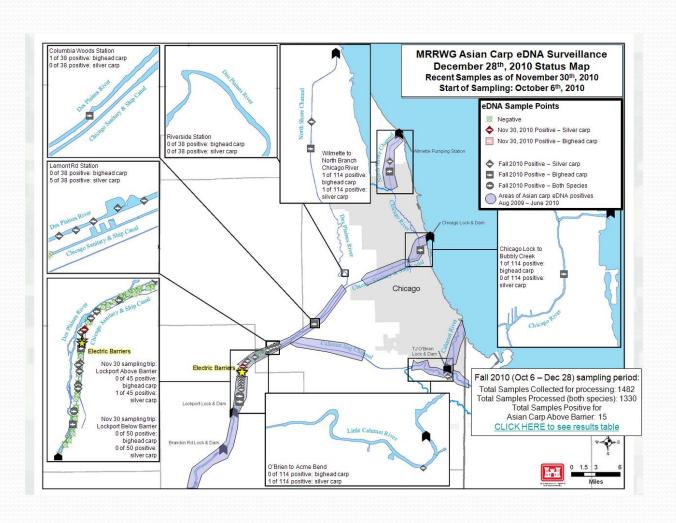
#### **Collaboration**

- > Federal, State, Regional Agencies
- ➤ Native American Tribes
- ➤ Non-governmental organizations









## Thank you

For questions or more information

Please visit www.asiancarp.org

# **Great Lakes & Mississippi River Interbasin Study GLMRIS**

GLMRIS Team
USACE Great Lakes & Ohio River Division;
Mississippi River Valley Division





### **GLMRIS**

#### **Summary of Study Authority**

#### Authority

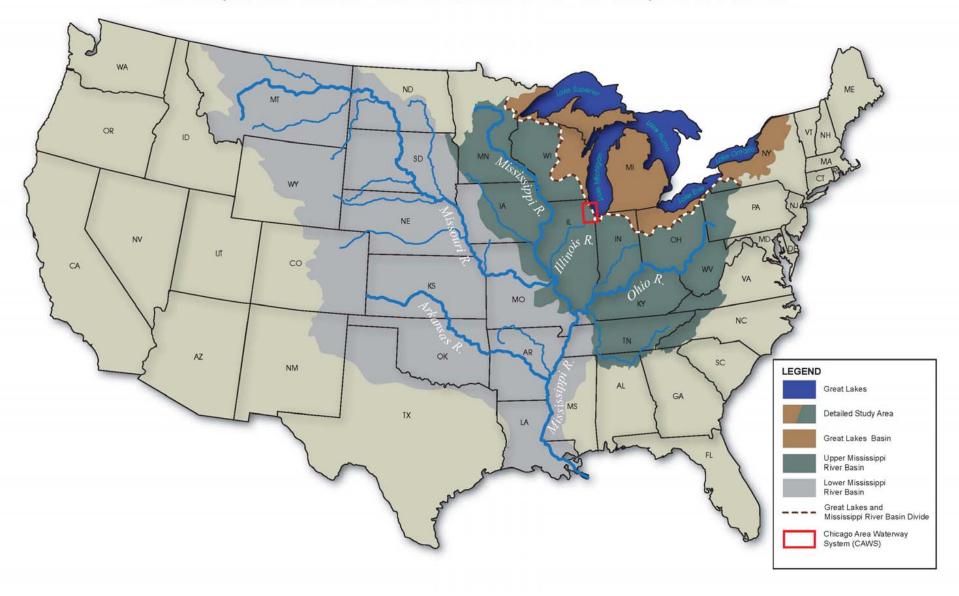
(d) FEASIBILITY STUDY.-The Secretary, in consultation with appropriate Federal, State, local, and nongovernmental entities, shall conduct, at Federal expense, a feasibility study of the range of options and technologies available to prevent the spread of aquatic nuisance species between the Great Lakes and Mississippi River Basins through the Chicago Sanitary and Ship Canal and other aquatic pathways.

#### Special Considerations

- ► Alternative recommendation shall include impact analysis on CSSC; as part of this study, USACE will conduct a detailed analysis of various ANS controls, including hydrologic separation.
- ► The term "prevent" includes the reduction of risk to the maximum extent possible, as it may not be technologically feasible to achieve an absolute solution.
- Study is 100% Federally funded



### GLMRIS STUDY AREA MAP



### GLMRIS - Feasibility Study Scope

	Includes	Does not Include
Pathways	Aquatic Connections	Terrestrial Airborne
	Swimmers (fish) Floaters (algae, plants, etc) Hitchhikers (parasites)	Human Release
Locations	Interface between Great Lakes Basin and Mississippi River Basin	Atlantic slope; St. Lawrence Seaway
	Portions of 31 U.S. states	Canada
Elements	Analysis of options/technologies to prevent interbasin transfer of all ANS	Detailed biological research on aquatic nuisance species of concern
	Evaluation of hydrologic separation	Airborne or terrestrial separation elements
	Regional economic modeling	Location-specific economics
	Risk-based ecological decision-making	Quantitative environmental models
	Environmental Impact Statement	



### **GLMRIS Strategy**

- Study two geographically-oriented Focus Areas along basins' divide
  - ► Chicago Area Waterways (CAWS) Primary effort
  - "Other Pathways" outside the CAWS
- Organize for success
  - ▶ USACE
    - Leadership and local knowledge from across the organization: USACE Regional Technical Experts, Planning Centers of Expertise, Research Laboratories
  - ► Executive Steering Committee (ESC)
  - ► Stakeholders Federal, Tribal, State, Local and NGO's
    - · Solicit input and leverage resource capabilities
    - Key stakeholders ability to provide input and directly support GLMRIS efforts
- Cycle out Interim Products and Reports
  - Summary of collected data
  - Incremental or specific solution elements
- Adapt to new and evolving information to the extent possible
- Abide by all legal and regulatory guidance



### **GLMRIS**

#### Study Purpose

- Identify aquatic pathways that may exist between the Great Lakes and Mississippi River basins
  - ▶ Focus Area I Chicago Area Waterways
  - ▶ Focus Area II Other Pathways
- Inventory current and future potential aquatic nuisance species (ANS)











- Analyze possible ANS controls available to prevent ANS transfer between basins, via aquatic pathways
  - Includes evaluation of hydrologic separation of the basins



# CAWS Focus Area I

- Specify Problems & Opportunities
- Inventory & Forecast Conditions
  - ▶ Baseline data; surveys
  - ▶ Reports
- Formulate Alternative Plans
- Evaluate Effects of Plans
- Compare Alternatives
- Select Recommended Plan
  - ▶ Feasibility Report
  - Environmental Impact Statement
  - Record of Decision

#### **Collaboration**

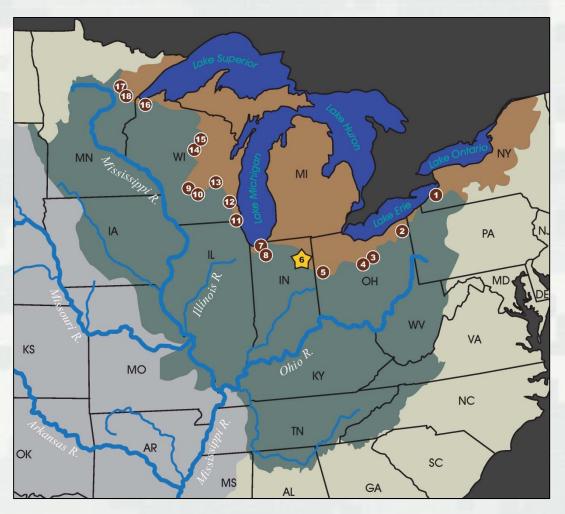
- > Federal, State, Regional Agencies
- ➤ Native American Tribes
- ➤ Non-governmental organizations

#### CHICAGO ÁREA Waterway System



### Other Pathways

#### Focus Area II



## Preliminary Risk Characterization

- Objectives
  - Inventory of potential aquatic pathways
  - Assess risk of ANS transfer
- Results
  - ▶ 36 total 18 locations w/ significant risk for potential ANS transfer
  - Highest Risk: Eagle Marsh, Ft Wayne, IN
    - Intermittent aquatic pathway;
       Asian carp reported w/in 25 mi
    - Interim measure implemented by InDNR
    - USACE developing long-term risk mitigation alternatives

#### **GLMRIS**

#### Accomplishments to Date

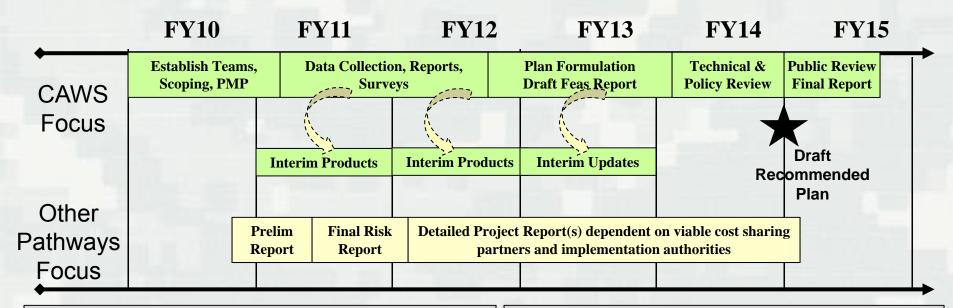
#### Develop Project Management Plan

- Jun 09 Receipt of funds
- Sep 09 Multi-District Kick-off
- Nov 09 Est PDT & Support Teams
- Dec 09 Begin PMP development
- Jan 10 Agency scoping meeting
- Jan 10 Develop GLMRIS roadmap
- Mar to Nov 10 Prep/Final PMP
- Jun 10 Tribal meeting
- Jul 10 Draft PMP to ESC members
- Aug 10 Conduct ESC workshop
- Nov 10 Complete PMP
- Dec 10 Begin Public Scoping

#### Simultaneous Execution

- Asian Carp Lit Review
  - ► 60+ pieces of literature on AC life history, sustainability, and control technologies
- Draft ANS White Paper
  - ► Reviewed approx 625 pieces of literature
  - ► Identified 154 species, combined, which may be alien among the two basins
- Preliminary Risk Characterization Report for Other Pathways
- Eagle Marsh, Ft. Wayne, IN
  - ► GLMRIS facilitated identification of pathway; implementation of interim risk reduction measure by state DNR
  - ► Initiated Detailed Project Report for longterm recommendation

### **GLMRIS Project Schedule\***



#### **CAWS**

- ➤ Data Collection: Fall '10 Summer '12
- ➤ Formulate Alternatives: Spring '12 Winter '13
- ➤ Evaluate & Compare Alt's: Winter '13 Summer '13
- ➤ Select Recommended Plan/Prepare Draft Report: Summer '13 – Winter '14
- ➤ Technical and Policy Review: Winter '14 Fall '14
- ➤ Release Report for Public Review: Fall '14 Winter '15
- Finalize Report: Winter '15 Summer '15

#### **Other Pathways**

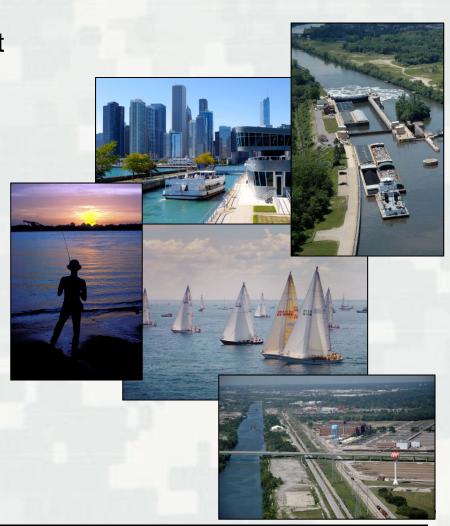
- ➤ Preliminary Risk Characterization Report: Fall 2010
- ➤ Final Risk Characterization Rpt (17 locations) Fall 2011
- >Eagle Marsh Ft. Wayne, IN
  - ➤ Detailed Project Report Fall 2011
  - ➤ Authority & sponsor TBD



### **GLMRIS**

#### Interim Products & Updates

- Interim Products will be cycled out during the data-gathering phase
- Interim Products
  - Inventory ANS & Transport Mechanisms
  - ► ANS Control Technologies
  - Navigation Surveys
    - Commercial Cargo
    - Commercial Passenger
    - Recreational Boating
  - ► Fisheries Surveys
    - Great Lakes
    - Mississippi River
- Interim Updates may be provided as the study matures
  - Other Pathways Report(s)



# "How Can We Help?" GLMRIS – Stakeholder Input

- Stakeholder inputs need to:
  - ▶ Directly apply to GLMRIS scope
  - ► Conform to USACE Quality Control/Quality Assurance requirements
- Example Inputs to Accelerate GLMRIS:
  - ► Inventory Cultural Resources (US Park Service)
  - Survey/Inventory Water Supply/Water Dischargers including WWTPs (State/U.S. EPA)
  - ► ANS Ballast Water Issues (*USCG/USEPA*)
  - ► ANS Controls (*USGS/USFWS*)
  - Survey Great Lakes Fisheries (USFWS/NOAA)
  - ► Early Detection and Rapid Response (*USGS/USFWS*)
  - ► Hydrologic and historical data (*State DNRs*)
  - ► ANS biology expertise (*USFWS*, *USGS*, *State DNRs*)



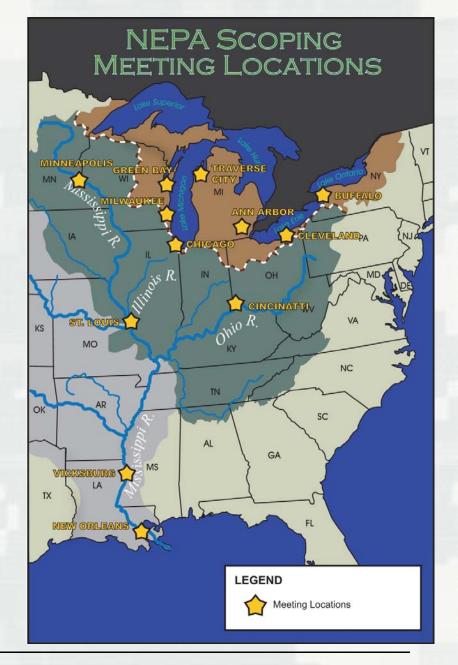
### **GLMRIS**

## Other Ways to Provide Input & Stay in Touch

#### NEPA Scoping Process

#### Regional locations

	<b>J</b>	
•	Chicago, IL	December 15, 2010
•	Buffalo, NY	January 11, 2011
•	Cleveland, OH	January 13, 2011
•	St. Paul, MN	January 20, 2011
•	Green Bay, WI	January 25, 2011
•	Traverse City, MI	January 27, 2011
•	Cincinnati, OH	February 1, 2011
•	Ann Arbor, MI	February 3, 2011
•	St. Louis, MO	February 8, 2011
•	Vicksburg, MS	February 10, 2011
•	Milwaukee, WI	February 15, 2011
•	New Orleans, LA	February 17, 2011



### **GLMRIS**

#### Other Ways to Provide Input & Stay in Touch

Website

## Learn more about GLMRIS & Submit Comments

http://glmris.anl.gov



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