





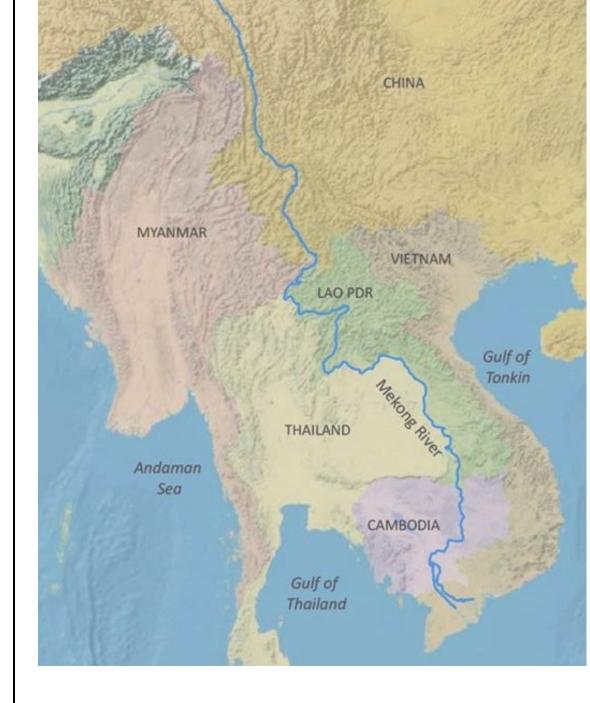
Collaborative Research of Mekong River Fishes

John Beeman* David Hewitt Matthew Andersen Craig Conzelmann U.S. Geological Survey, USA * jbeeman@usgs.gov Harmony Patricio Shaara Ainsley Sinsamout Ounboundisane Doug Demko *FISHBIO*, USA

Vu Ngoc Ut Can Tho University Viet Nam

Background

- The Mekong River in Southeast Asia:
- Shared resource for six riparian countries
- Supports one of the world's most productive inland fisheries, providing food and income to > 60 million people One of the world's most diverse freshwater fish assemblages, with more than 850 species Many species (> 30%) make long distance, transboundary migrations Infrastructure development along the river and climate change are anticipated to have substantial effects on river hydrology and productivity Making informed decisions about the management of the river in the face of these changes will require considerable information about the fish resources



Mekong Fish Network & Data Bank

- Workshop held in Phnom Penh, Cambodia in 2012:
 - Explore potential for coordinated fisheries monitoring in the Lower Mekong River Basin
- Consider standard sampling methods that could be implemented for short-term and long-term monitoring at a broad spatial scale
- Food

 Banagement

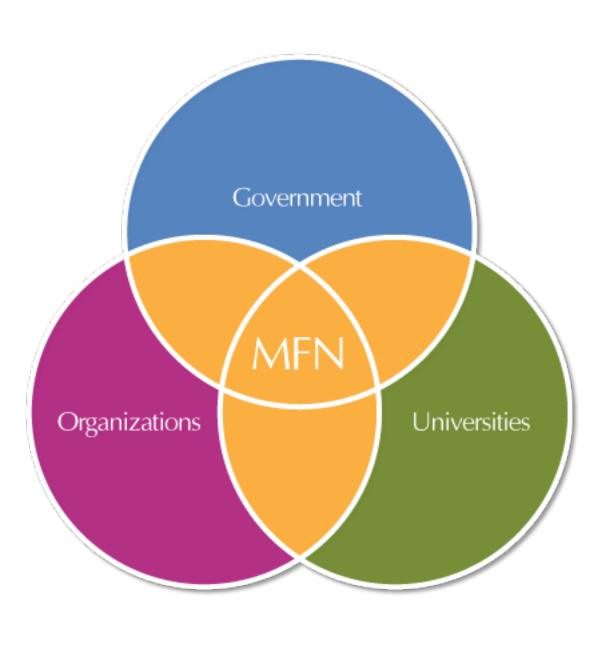
 Research and Monitoring



- Discuss capacity needs for fisheries monitoring programs
- Mekong Fish Network established to:
 - Facilitate sharing of ideas and information
 - Provide needed tools and capacity building
- MFN Data Bank created to provide secure data storage and management tools

FISH NETWORK

and a







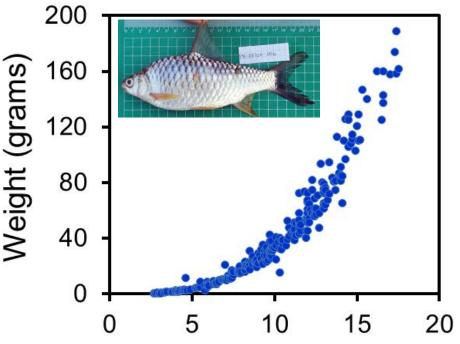
Pilot Project for Standard Sampling Methods

- Conducted in the Mekong Delta, Viet Nam, by Can Tho University
- Two gears with potential to be used widely in the Mekong River and its tributaries
- Small trawl, mouth 3.5 m wide and 0.5 m tall
- Anchored and drifting gill nets, 1-2 m deep, 2-10 cm stretch mesh, 2 hr soak
- Six sampling sites, 2 in each of 3 provinces, from border with Cambodia to the coast
- Included mainstream locations and tributary locations at each site
- Year 1: July 2011 June 2012, monthly sampling, trawl only
- Year 2: August 2012 June 2013, bimonthly, trawl and gill nets

<u>Results</u>

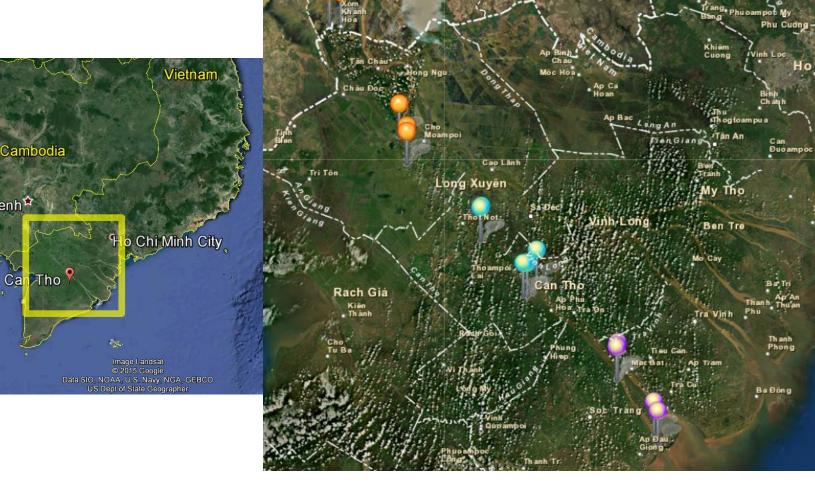
- More than 175 different species captured
- Trawl samples included > 21,000 individuals:
 - 154 species, 64 not captured in gill nets
 - Average size = 6.76 cm standard length
- Gill net samples included > 3,000 individuals:
 - 125 species, 34 not captured in trawl
 - Average size = 9.22 cm standard length
- Length-weight curves developed to reduce need for weight measurements in the future

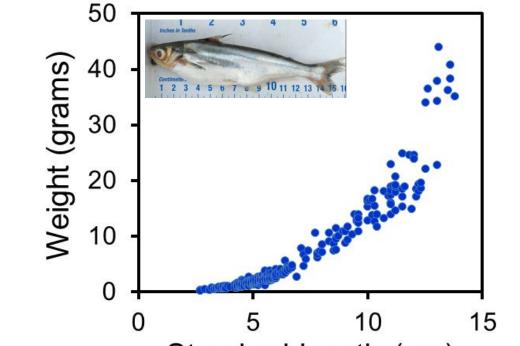




Otomological logosthe (open)









Report from a workshop held in Phnom Penh, Cambodia, February 9–10, 2012

Prepared in cooperation with FISHBIO





Acknowledgments

- Numerous students at Can Tho University assisted with sampling
- Funding provided in part by the U.S. State Department
- Photos courtesy of USGS
 and *FISHBIO*







