ROBERT AGUILAR TUCK HINES ERIC JOHNSON

Sustainable Fisheries Goal Implementation Team Meeting
June 11-12th
Annapolis, Maryland



• Pis:

Tuck Hines – SERC Eric Johnson – SERC/UNF Robert Aguilar – SERC

• Partners:

Mary Groves – MD DNR Jay Killian – MD DNR Bob Greenlee - VDGIF



- Rationale: Invasive blue catfish are expanding in MD. These large predatory fish could pose a serious threat to local ecosystems (e.g., tidal fresh water) and important fisheries (native catfish, river herring).
- Objective: Determine how blue catfish diet varies
 Spatially (Patuxent, Sassafras, Susquehanna, Nanticoke)
 Temporally (Spring, Summer, Autumn)
 Ontogenetically with Size



• Approach:

Low Frequency Electrofishing in 4 MD systems

Gut Content Analysis / DNA Barcoding

Stable Isotope Analysis

Otolith – Age/Growth

Mercury Load



* Fisheries Ecosystem Workgroup (FEW) Fabrizio et al. 2010

• Potential relevance/impacts:

Relative Abundance / Habitat Preferences in MD

Foodweb Impacts - Diadromous Fishes

Ecosystem Modeling / EBM Reference Points (Ecopath with Ecosim, Chesapeake Atlantis Model)

Addressing Data Gaps – Baywide Management

