National Coastal Condition Assessment: Lessons Learned in Michigan

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NARS

- Lakes 2007
- Rivers and Streams 2008 & 2009
- Coastal 2010
- Wetlands
Tricky how…

- Many sites – 107 (*break to next slide*)
  - Trivia – 3000 miles of shoreline
- Only some equipment
  - Only one Great Lake Vessel
- No coastal monitoring program
SITES PER LAKE
• LAKE ERIE = 6
• LAKE HURON = 45
• LAKE MICHIGAN = 26
• LAKE SUPERIOR = 30
Tricky how...

- Many sites – 107
  - Trivia – 3000 miles of shoreline
- Only some equipment
  - Only one Great Lakes Vessel
- No coastal monitoring program
Players

- 11 Trained Crew Leaders
- 16 Deckhands
- 27 Staff (8 Captains)
- Drove over 18,000 miles
- 40 overnights per boat
- 10 weekend days
Topics

- Equipment Procurement
- What Equipment
- Collaboration
- Fish Collection Techniques
- Improving Efficiency
- Where are the data now?
How to Buy Stuff

- Procurement Cards
- Equipment List with Systems (Ponar Retrieval, Boating Safety, Maintenance and Repair)

<table>
<thead>
<tr>
<th>BOATING SAFETY SYSTEM</th>
<th>$7,000.00</th>
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<td>tool kit</td>
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<td>deck brush</td>
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<td>rope</td>
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Equipment Procurement

- A Boat
- To buy or to borrow...
- State Enforcement
- Borrow
The Cooper Stick

- ½” polycarbonate on ½” conduit
- Pivots on single bolt
- Bottle held by strap or wire
- Start up-side-down & swivel with 1/8” cord
- 30 minutes @ $10 each
Crab Pot Puller

- $700 each
- Motor undersized - overheat
- Be careful... rope
- Good idea... but disassemble when traveling
Collaboration

- MOU with Fish Division for many Lake Superior – safe and fast but...
- Lake Guardian – great but...
How Did We Fish?

- EPA recommended angling
- Gill nets
  - Gill nets ok in productive water
Fish Stats

- Erie (6 sites)
- Michigan (26 sites)
  - Zero at 16 sites
- Superior (31 sites)
  - Zero at 17 sites
- Huron (45 sites)
  - Zero at 25 sites

And then there were 4...
Angling at 4 sites

- 22-26 round goby and a lake trout
Improving Efficiency

- Same crews – crew leaders
- Save groups
More on Improving Efficiency

- Central Command Center
  - On call project leader
  - Few staff in charge of shipping bulk items
  - One staff in charge of organizing paperwork
  - One staff in charge of supplies
Lessons Learned

- Training
- Desktop Reconn
- On call central command
- Consistent crews
- Crab Pot Pullers
- Cooper Stick
- Fishing
  - Angling
  - When
  - Where
Have to Thank

- Other NCCA agencies
- Our DNR
- Lake Guardian crew and the guy at EPA who said we could use it
- EPA
- EPA again and CTIC
In the Meantime

- Access Database
  - Location, gear, fish, depth, profile, sediment,...