



National Coastal Condition Assessment: Lessons Learned in Michigan



Dawn Roush

Michigan Department of Environmental Quality

roushd@michigan.gov

NARS

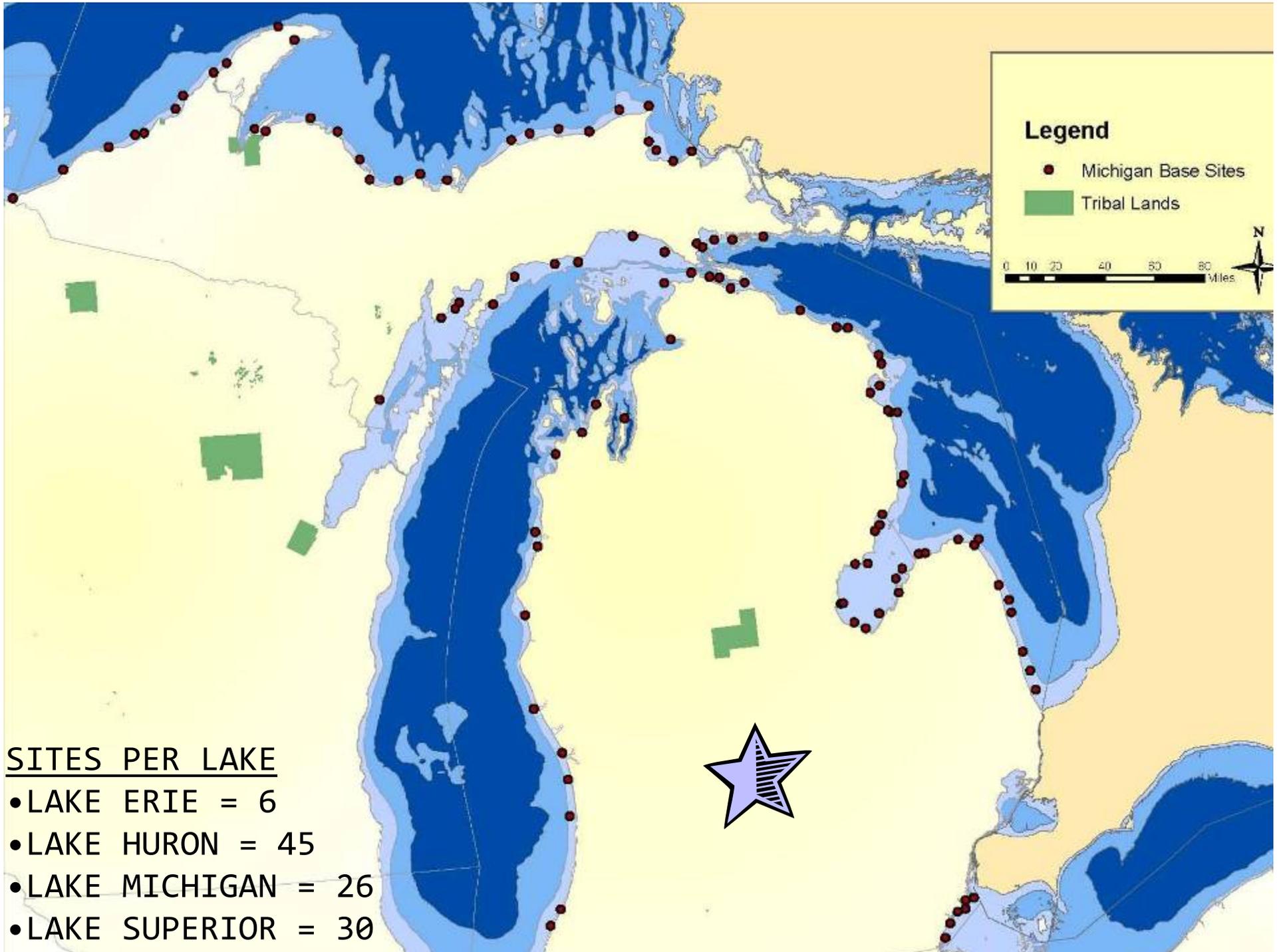
- Lakes 20
- Rivers ar
- Coastal 2
- Wetlands





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



Tricky how...

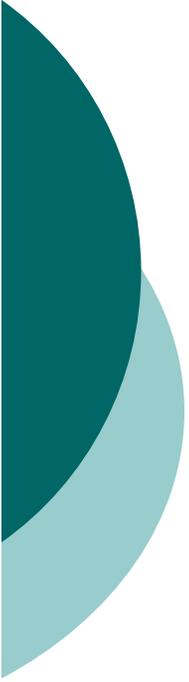
- Many sites – 107
 - Trivia – 3000 miles of shoreline
- Only some equipment
 - Only one Great Lakes Vessel
- No coastal monitoring program



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)

BOATING SAFETY SYSTEM				\$7,000.00	
marine radio w NOAA					
type IV PFD					
emergency signal kit					
first aid kit					
flashlight					
tool kit					
rubber mat					
boat hooks					
deck brush					
rope					
raw water wash down					
float coats					
survival bibs					
survival suits					
raingear					
life jackets					
misc					



Equipment Procurement



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



The Cooper Stick

- 1/2" polycarbonate on 1/2" 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

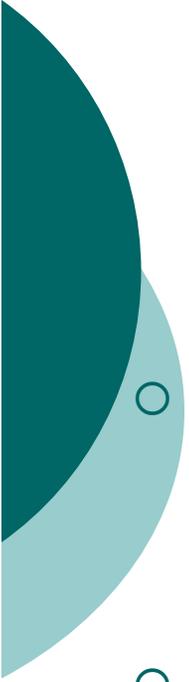
- MOU with Fish Division for many Lake Superior – safe and fast but...
- Lake Guardian – great but...



How Did We Fish?

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





Fish Stats

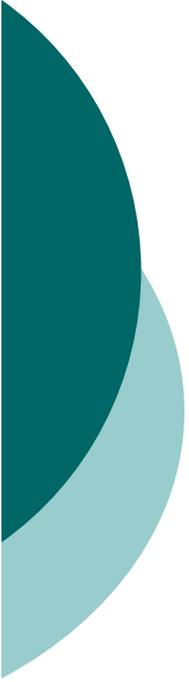
- Erie (6 sites)
 - Zero at 17 sites
- Michigan (26 sites)
 - Zero at 16 sites
- Superior (31 sites)
 - Zero at 17 sites
- Huron (45 sites)
 - Zero at 25 sites

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

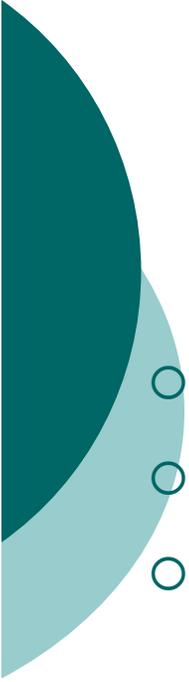
- Central Command Center
 - On call project leader
 - Few staff in charge of shipping bulk items
 - One staff in charge of organizing paperwork
 - One staff in charge of supplies



Lessons Learned

- Training
- Desktop Recon
- 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,...

