

# Lake Ontario Contaminant Monitoring and Research Workshop

*Building Cooperative Approaches for 2008*

March 27 & 28, 2007  
Grand Island, NY

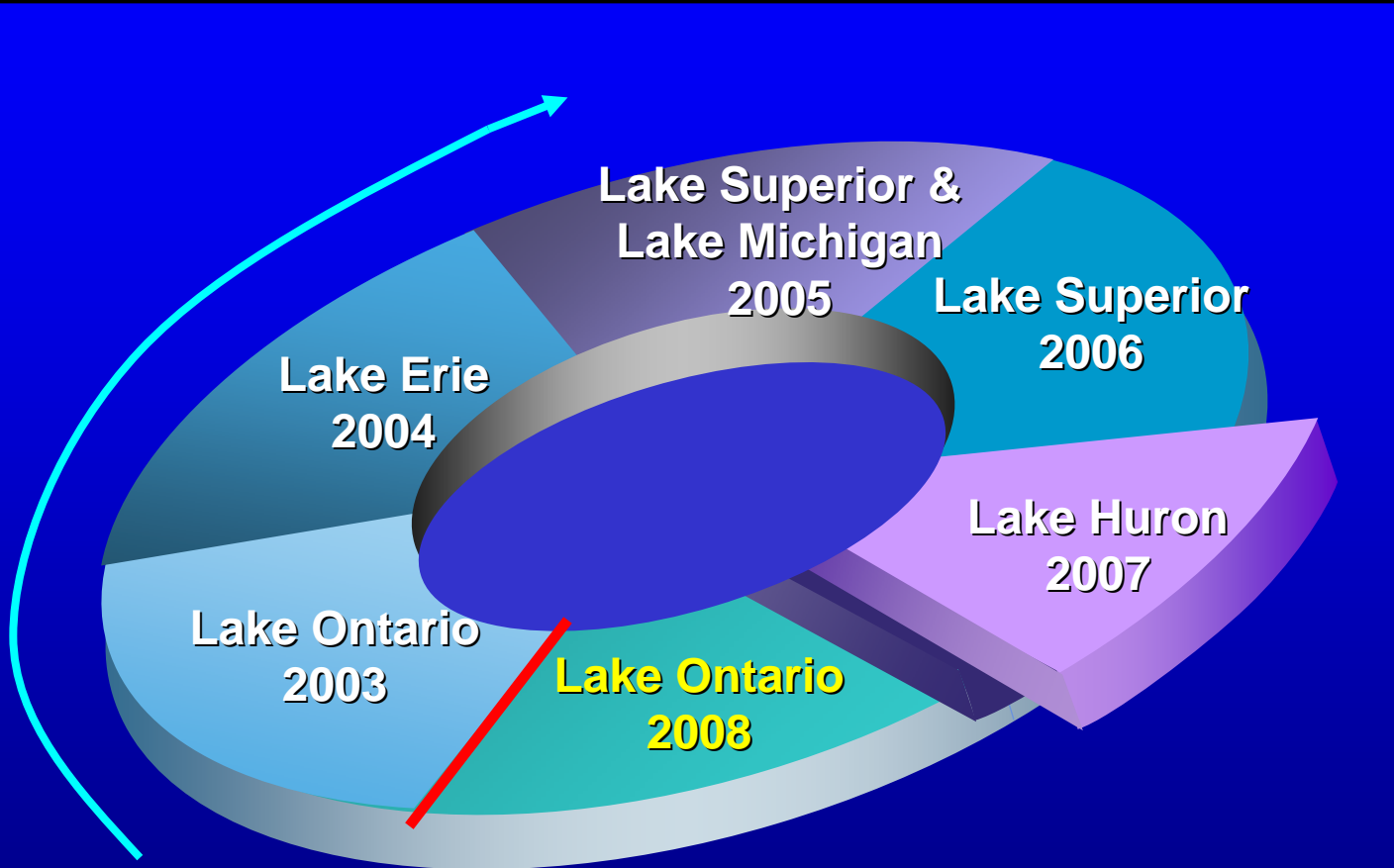


**Lake Ontario Lakewide Management Plan**

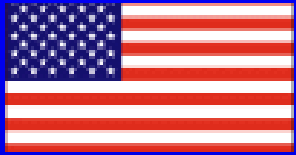


**International Joint Commission**  
Council of Great Lakes Research Managers  
Air Quality Board

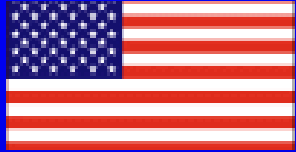
# Binational Executive Committee 5 Year Cycle of Great Lakes Cooperative Monitoring Efforts



# U.S. – Canada Great Lake Water Quality Agreement



# Lake Ontario Lakewide Management Plan



USEPA Region 2  
NYS Dept. of Environmental Conservation  
U.S. Fish & Wildlife Service



Environment Canada  
Ontario Ministry of the Environment  
Ontario Ministry of Natural Resources  
Dept. of Fisheries & Oceans Canada

- Restore physical, chemical & biological integrity of the Lake Ontario Ecosystem.
- Address Lakewide Problems requiring coordinated binational actions.

# Lake Ontario Critical Pollutants



- Fish Consumption Advisories & Fish & Wildlife Health Issues

**PCBs**

**DDT**

**Dioxins/furans**

**Mirex**

**Mercury**

- Water Quality Exceedences & Potential Wildlife Health Issues:

**Dieldrin**

# Measuring Progress: Lake Ontario Ecosystem Indicators

- **Critical Pollutant Indicators**

Surface Water  
Young-of-the-Year Fish  
Sport Fish  
Herring Gull Eggs

- **Lower Foodweb Indicators**

Nutrients  
Zooplankton,  
Prey fish

- **Upper Foodweb Indicators**

Populations: Bald Eagle  
Lake trout,  
Herring Gulls  
Mink & Otter

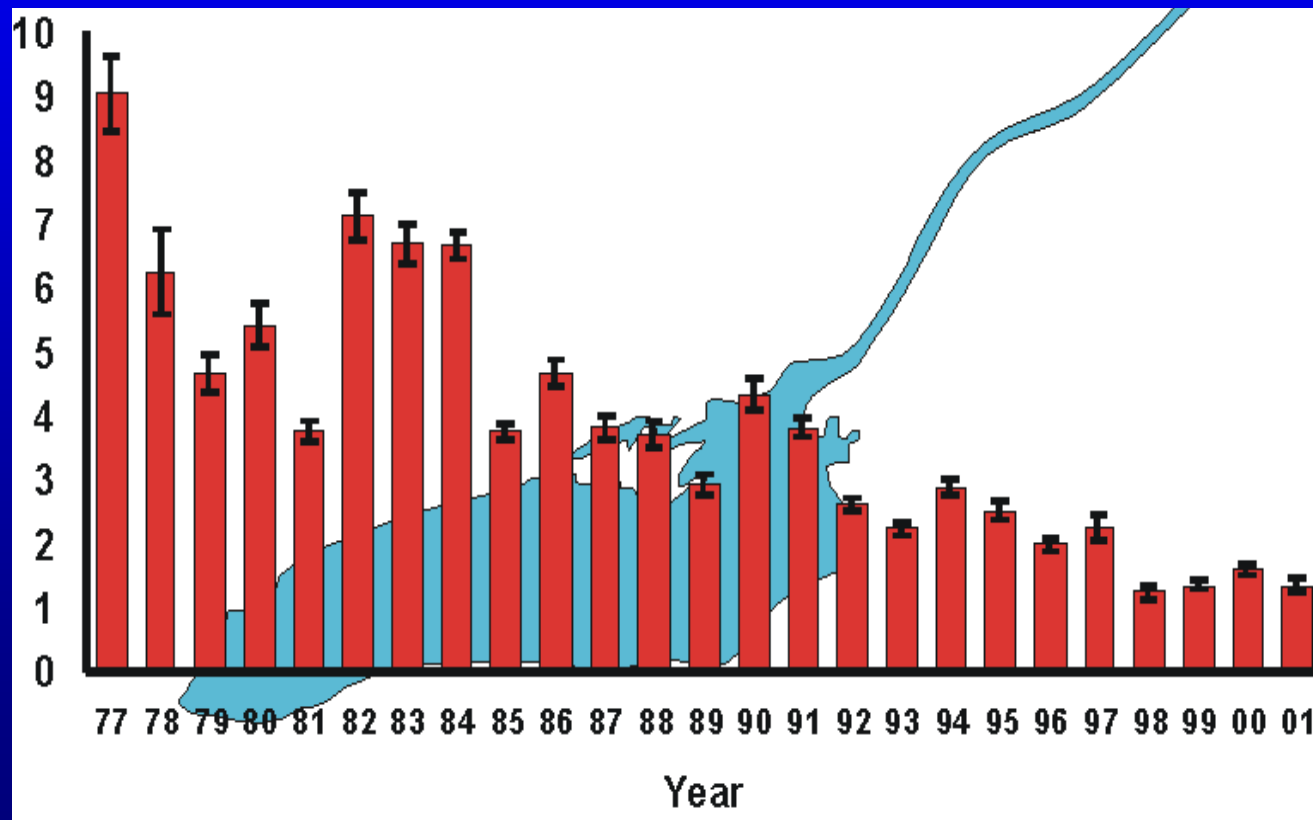


# Lake Ontario Lake Trout PCB Trends 1977 – 2001

Whole Fish Age 4 - 6

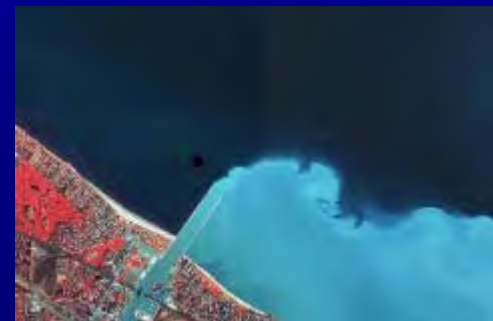


ug/g  
wet wt.



# New Challenges for Managers & Monitoring Programs

- “New” Bioaccumulative Contaminants
- New Invasive Species Arriving
- Contaminant & Nutrient Transfer Pathways Altered
- Public alarmed by apparent increase in nearshore water quality problems



# Identifying 2008 Coordination Opportunities

- “Piggy Back” sampling
- Share equipment / lab
- Resolving sampling / analytical / QA issues
- Data sharing / indicator reporting
- Work together on emerging issues
- Share bright ideas
- Build new partnerships



# Great Lakes Mission Impossible

© 1996 Randy Glasbergen. E-mail: [randy@glasbergen.com](mailto:randy@glasbergen.com) [www.glasbergen.com](http://www.glasbergen.com)



“ This Lake Ontario monitoring project is extremely important but it has no budget, no support staff and it’s due tomorrow.”

# Lake Ontario Contaminant Monitoring and Research Workshop

*Building Cooperative Approaches for 2008*

March 27 & 28, 2007  
Grand Island, NY



**Lake Ontario Lakewide Management Plan**



**International Joint Commission**  
Council of Great Lakes Research Managers  
Air Quality Board