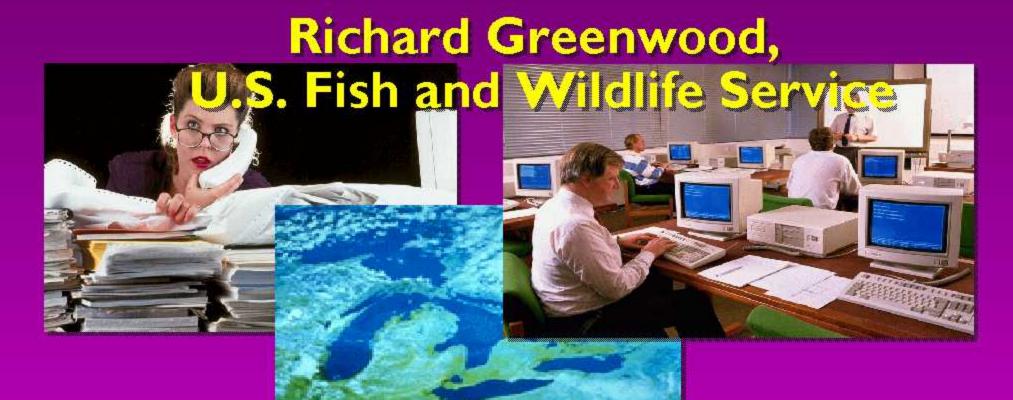


Information and Information Management

Wendy Leger, Environment Canada





Outline

- Background
 - Purpose
 - Methods
- What's the Problem?
 - Information Indicators
 - Major Data Gaps
- What's Causing the Problem?
 - Information Management Issues
- What's the Good News?
- Where Do We Go From Here?



Background

Purpose

Report on the State of Nearshore Information Holdings



Examine Information Management



Nearshore Waters

Coastal Wetlands

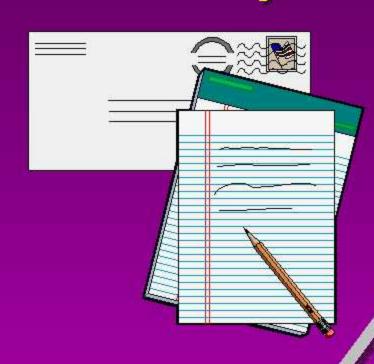
Defining Nearshore information

Land by the Lakes Changing Land



Methods

Survey



Literature Search



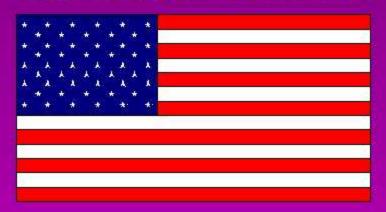


Database of Information Holdings

150 Canadian Entries

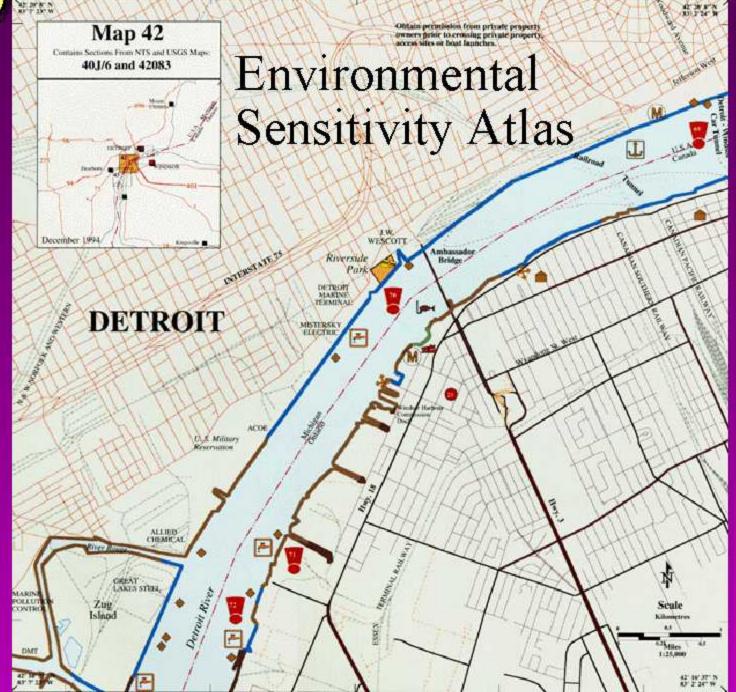


80 U.S. Entries





Highlight - Land by the Lakes

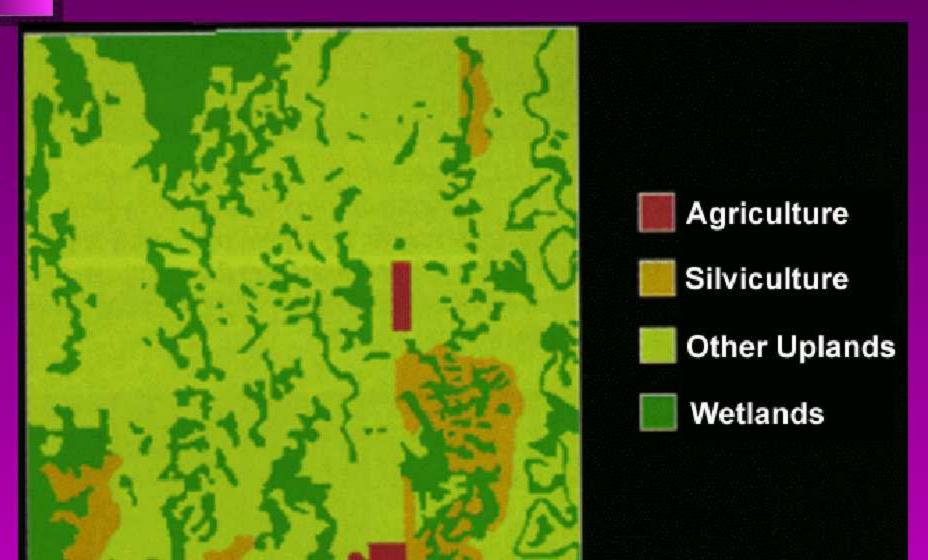


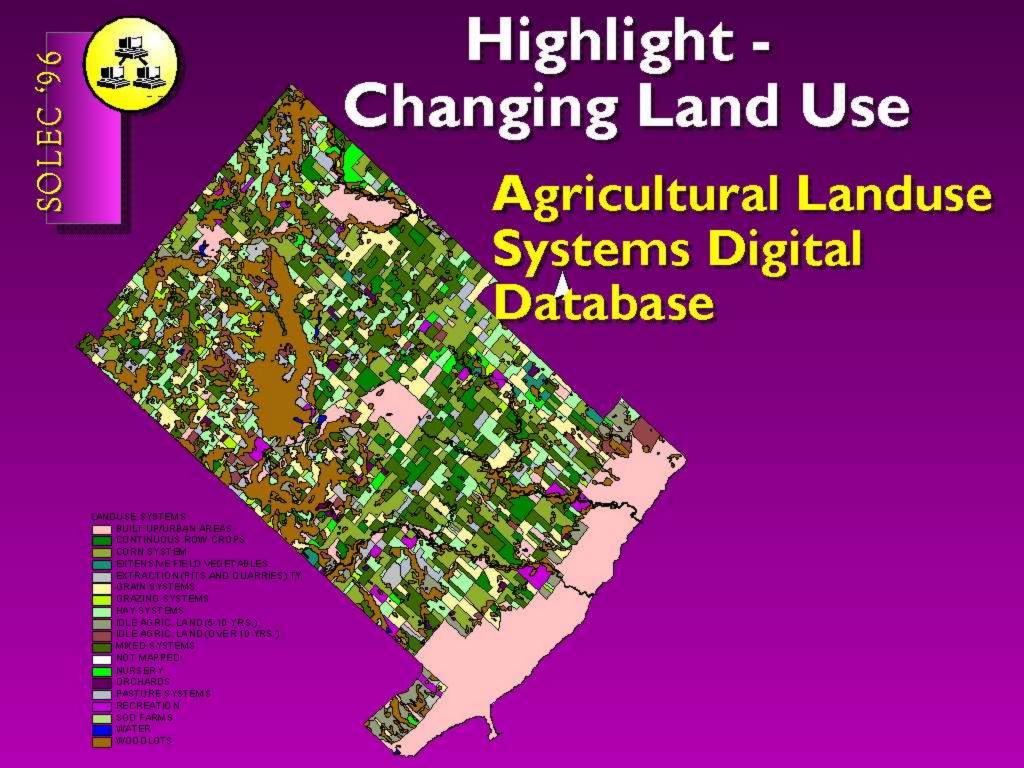
Highlight - Nearshore Waters



SOLEC '96

Highlight - Coastal Wetlands National Wetlands Inventory

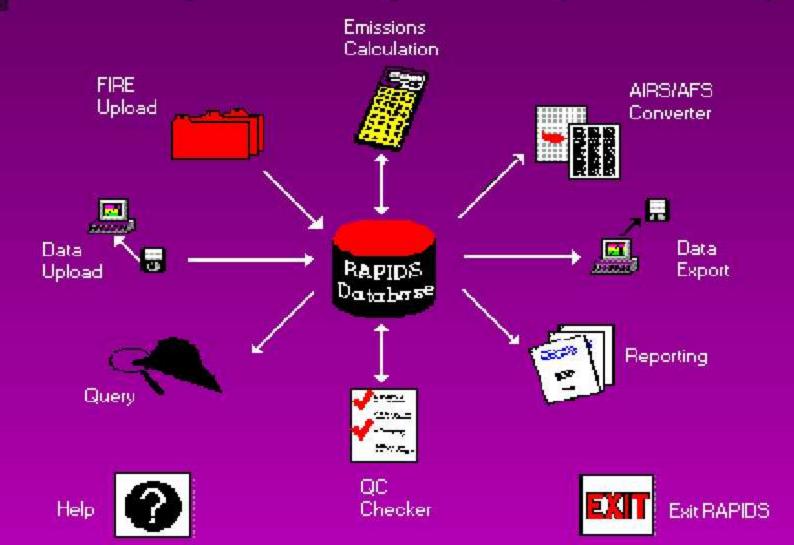




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Highlight - Air

Regional Air Pollutant Inventory Development System (RAPIDS)





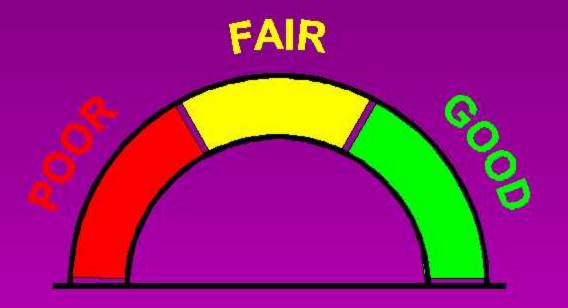
What's the Problem?



Value of Data for Assessing the Nearshore

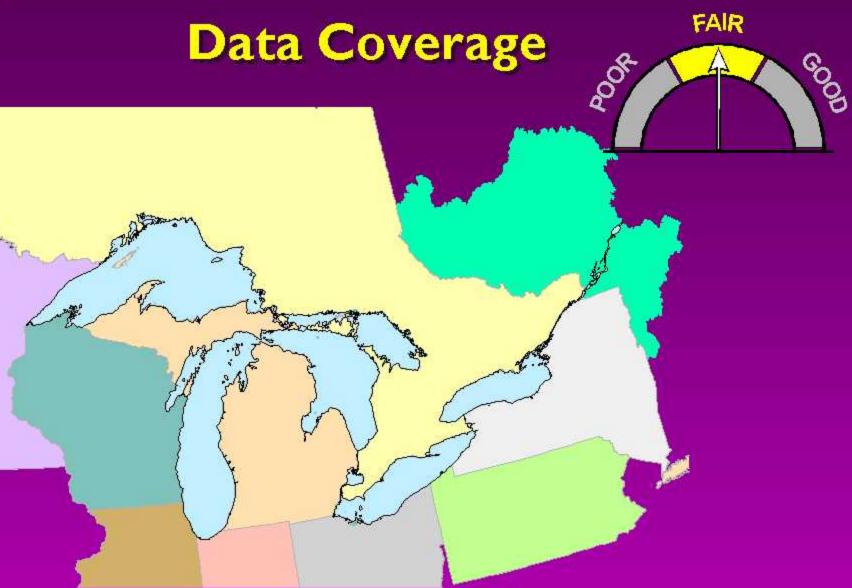
- Proposed Indicators
- Data Needs

- Data Gaps
- Rating





Information Indicators





Information Indicators Data Time Frame

Niagara-on-the-Lake

Spottail Shiners

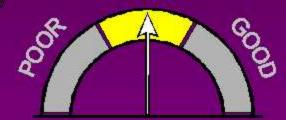






Information Indicators Data Applicability FAIR









Information Indicators Data Usability FAIR





Data Gaps (Nearshore Waters Example)



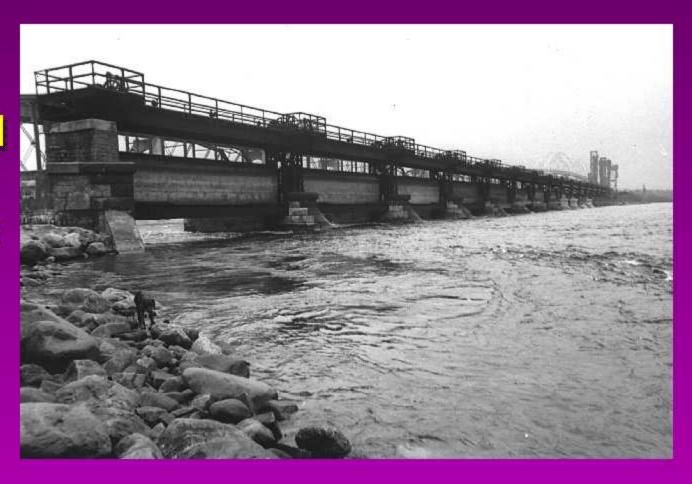
96, DETOS

No standardized reporting method of beach status

Data Gaps (Land by the Lakes Example)

Identify the effects of human induced water-level changes on the functioning of shoreline natural ecosystems

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Data Gaps (Wetlands Example)



Detailed nearshore bathymetry required (0- 2 metres)



Data Gaps (Land Use Example)

Information required on the area of roads and buildings





What's the Problem? Summary

- Major Data Gaps
- Information is disjointed
- Lacks continuity
- Efforts are not coordinated
- No overall picture
- Not collecting information using a common set of indicators



What's Causing the Problem?



Nearshore Information Management Issues

Data Collection Issues

Documentation/ Cataloguing Storage and Archiving

Nearshore Information Management Issues

Availability and Access

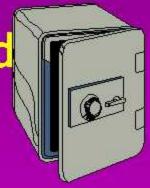
96, DETOS







Security and Protection



What's the Good News?

- A good amount of data already exists
- Some efforts are already underway to document existing databases
- Draft indicators are being developed
- Some partnership programs such as the Lakewide Management Plans are underway
- Technology is advancing

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Where Do We Go From Here?

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Adopt a set of common indicators.

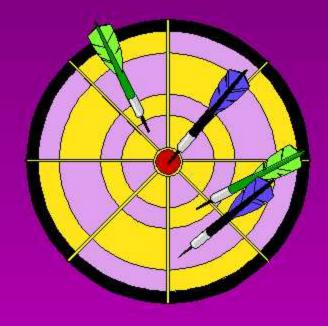


96, DETOS

② Develop some general guidelines and standards for collecting data on these indicators.

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3 Identify target areas for data collection.



96, DETOS

4 Look for partnership opportunities for data collection and identify custodians for the long-term maintenance of that data.



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Agree to document nearshore data and information using some form of metadata standard.





Metadata Standards

- ▶ Title:
- Author:
- Originator:
- Date:
- Descriptions or Abstract:
- Subject List:
- Availability:
- Point of Contact:

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6 Agree on a set of common data exchange formats.





Post metadata, and where possible, data, on the World-Wide Web.



Set up a consortium of nearshore partners over the World-Wide Web.



96, DETOS





Questions

- Do you have information on nearshore databases not included in our report?
- What do you view as the major gaps in nearshore information holdings?
- Do you agree with the challenges put forward?

