Ecosystem Based Management in New York

September 23, 2008

Great Lakes Regional Program Managers' Meeting

Web site: http://www.nyoglecc.org/

Outline

New York's Coastal Areas
 Ecosystem Based Management (EBM)

 Benefits of New York's EBM Act
 Requirements

 Progress to Date

NY Depends on Coastal Ecosystems

New York State has 3200 miles of coastline
90% of New Yorkers live along the coast
Over 50,000 miles of rivers and streams
17 drainage basins
2.4 million acres of freshwater wetlands

New York is America's Gateway to the Great Lakes



The Great Lakes Provide Drinking Water, Power and Transportation...





The Coast Supports Communities through Food, Jobs, and Recreation

http://www.pbase.com/dhnieman/image/52529172

Coastal Ecosystems Face Many Challenges





Round Gobi Shedd Aquarium



Purple Loosestrife



Solutions Must Reach Beyond Traditional Borders and Approaches

New York Ocean and Great Lakes Ecosystem Conservation Act



"to conserve, maintain and restore coastal ecosystems so that they are healthy, productive, resilient and able to deliver the resources people want and need" 10

Ecosystem-Based Management in New York

Ecosystem-Based Management is: An integrated approach to management that considers the entire ecosystem, including humans

An Ecosystem is: A dynamic complex of plants, animals (including humans), microbes and physical environmental features that interact with one another

Ecosystem-Based Management: Components

Place-based focus
 Best available science
 Adaptive management
 Measurable objectives
 Interconnectedness
 Public involvement



Guiding Principles in Act

- activities and uses of ecosystems are sustainable
- ecological health and integrity is maintained
- recognize interconnections among ecosystems
- understanding of coastal ecosystems is enhanced

• decisions are informed by good science

- when risks are uncertain, caution is applied
- public involvement in planning and decision making



Ecosystem-Based Management Benefits

Decisions based on holistic understanding of ecosystems
Ability to respond to change
Promote collaboration among sectors
Accommodate multiple uses

Current Coastal Area

• Expand Geography

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Expand Geography
 Ownership
 Institutionalize
 Build on existing programs
 Change existing processes

Expand Geography
Ownership *Accountability*Measurable results

Generated independently
Adaptable

• Expand Geography Ownership Accountability Viability -Broad support -Transparency - Inclusion -Build on strengths



Expand Geography
Ownership
Accountability
Viability
ACTNOV!



November 2008 Report Requirements

- Integrate EBM principles into existing programs
- 2. Show improvements in two demonstration areas
- 3. Create an ocean and Great Lakes atlas
- Establish a research and monitoring agenda
- 5. Recommend actions to restore and protect submerged aquatic vegetation
- Identify opportunities for regional EBM with neighboring states and the federal government

Progress to Date

Council Organization Agency guidelines work (1) Demonstration Areas (2) Coastal Atlas created (3) Research and Monitoring Agenda (4) • "November report" development Stakeholder Engagement

Council Organization

- Council: 9 member agencies including Environmental Conservation, Agriculture, and Economic Development
- Various working groups to address regional priorities, research needs, data management
- Agency Steering Committee guides development of report

Council Organization: Ocean & Great Lakes Working Groups

 High-level regional agency representatives

BEACH

Periodic meetings
 Identified issues and opportunities
 Continuation after report

Agency Guidelines

 Integrate EBM principles into existing programs

200 programs identified
 20 addressed surroutly

– 38 addressed currently

- 3-5 per agency

Focus on concrete actions

Sandy Creeks

Demonstration Areas

Great South Bay

Demonstration Area Approach

1. Developing ecosystem-based management strategies

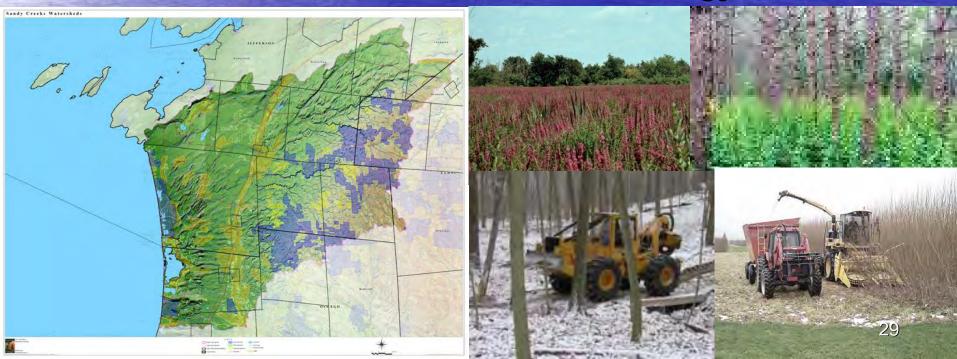
2. Undertaking significant restoration activities

3. Building and strengthening partnerships

Demonstration Area Projects

Sandy Creeks

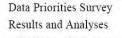
Invasive species control
Forestry BMPs, stream buffers
Draft EBM Strategy



Ocean and Great Lakes Atlas



Data collection: Technical Advisory Group



REPORT FOR THE NY OCEAN AND GREAT LAKES ECOSYSTEM CONSERVATION COUNCIL (OGLECC)

Project ID 071866-G March 2008



This project was prepared under State of New York Contract # 000273/19000

Prepared	for	7
NV Occar		'n

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- Prepared by: Stone Environmental, Inc. 535 Stone Cutters Way. Montpelier, VT 05602 Tel: / 802 229 4541 Fax: / 802.229 5417 E-Mail / sei@stone-env.com

Data Collection – over 700 datasets

Establishing Data Needs and Priorities for EBM in NY

Research and Monitoring Agenda

November Report Activities

Draft recommendations being developed

Thorough Council review

Public review

Revise and submit to Governor / Legislature



New York Ocean and Great Lakes Ecosystem Conservation Council

Supporting Documents

- <u>New York Ocean and Great Lakes</u> <u>Ecosystem Conservation Act (ECL</u> <u>Article 14)</u>
- Transitioning the Ocean and Great Lakes to a Sustainable Future
- Summary of Fall 2006 Dialogues

Great South Bay Demonstration Project

GSB December 2007 Newsletter

Sandy Creeks Demonstration Project

- SC December 2007 Newsletter
- Fall 2007 Stakeholder Summary

Ocean & Great Lakes Atlas

- OGLA Data Catalog
- Data Priority Survey: Results and Analysis

Contact Us

SUBCRIBE to the Council's ListServ by one of the options below:



New York Ocean and Great Lakes Ecosystem Conservation Council

Meeting Announcement

April 1, 2008 11:00 a.m. – 1:00 p.m. Meeting Room #7 Empire State Plaza Convention Center Albany, NY

Meeting Webcast

This meeting will be Web-cast Live and available for one month after the meeting. The web links for Live Web-cast below will be activated the morning of the meeting.

Windows Media: http://interface.audiovideoweb.com/ink/va91win1520/DOS_04012008a.wmv/play.asx

Real Media: http://interface.audiovideoweb.com/lnk/nj20real2704/DOS_04012008.rm/play

Meeting Materials

Agenda Council Progress Report Directions to Empire State Plaza Parking Map Facilities Map

Archived Meeting Materials

http://www.nyoglecc.org

EXTRA SLIDES



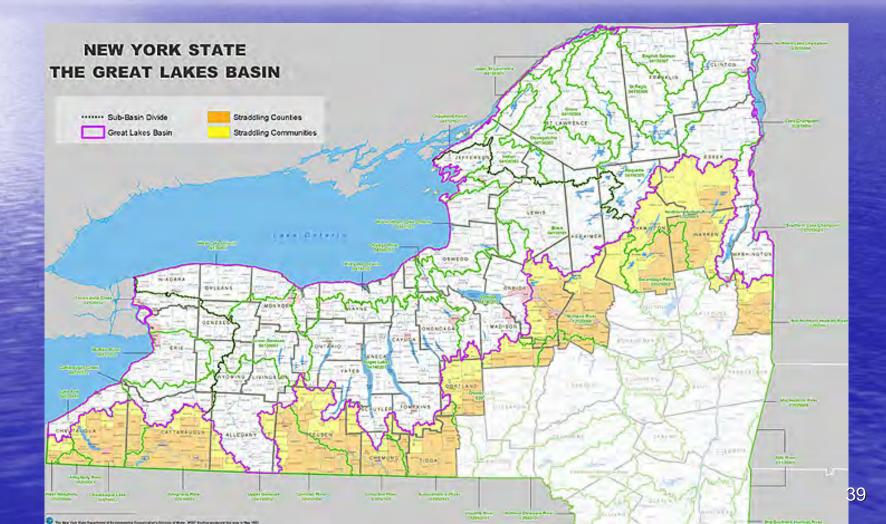


Ocean & Great Lakes Human Impact Models

Priority geographic areas
Problematic human activities
Integrated management

Ecosystem health index

Develop a Great Lakes Human Impact Analysis





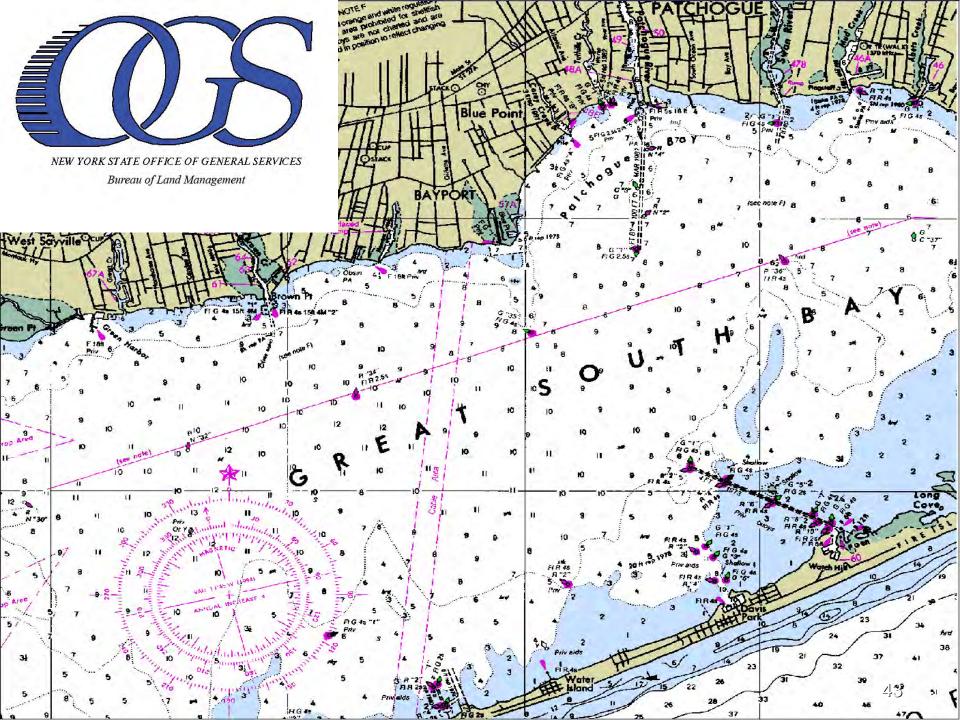
Funded

2006 - \$3 Million

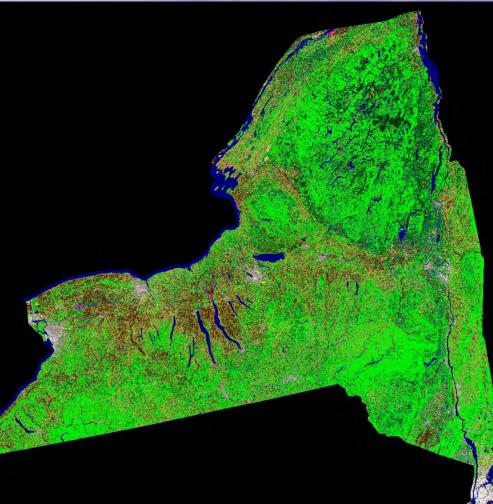
2007 - \$4 Million

<u>2008 - \$5 Million</u>
 Totaling \$12 Million

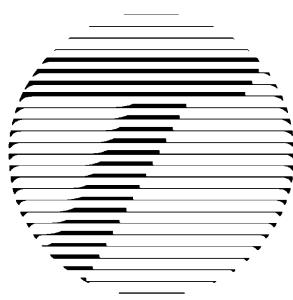




Technical Advisory Group



- MOA with NOAA
- MOA includes provisions for development of benthic & bathymetric data
- Already received an updated statewide land cover dataset through this agreement









SUNY THE STATE UNIVERSITY of NEW YORK



Demonstration Area Partners

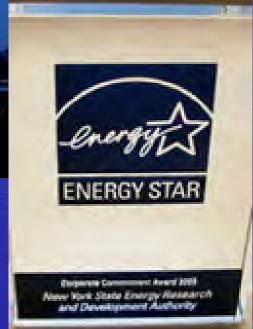
Council Agencies
Tug Hill Commission
South Shore Estuary Reserve Council
The Nature Conservancy



New York State Energy Research and Development Authority





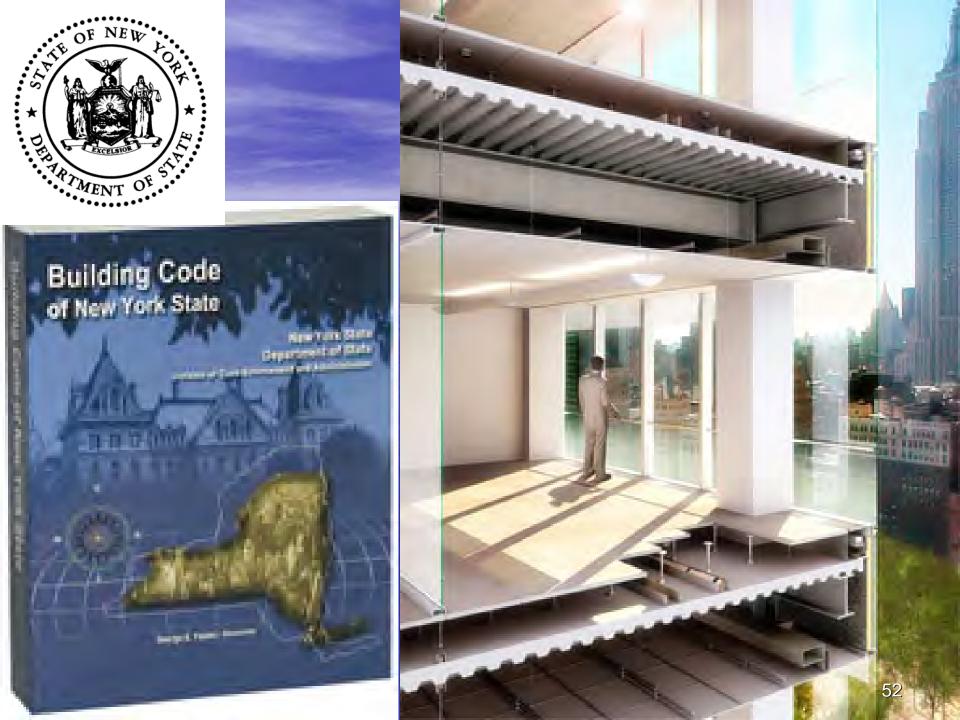


New York Smart Energy Smart NYSERDA PUBLIC SERVICE

Loans



Empire State Development



Some Examples of Great Lakes Threats:

Global Climate Change
Storm Water Runoff
Invasive Species

We Depend on Coastal Ecosystems

NYS ports generate \$18 billion a year NYS seafood and fishing industries generate \$11.6 billion a year Over 177,000 NY jobs are employed by the seafood and fishing industries Nearly 640,000 NY residents are employed in agriculture

Governor Spitzer Priority

Structural Reform

 More flexible and adaptive to change
 Align state programs

Governor Patterson Priority

• ???





Governor Patterson Priority

VERIFY: Climate Change and Clean Energy

1.2 miles offshore

Oregon State University Conceptual Wave Park



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Ecosystem-Based Management is:

- A process....

 Evolutionary not revolutionary

We Depend on Coastal Ecosystems



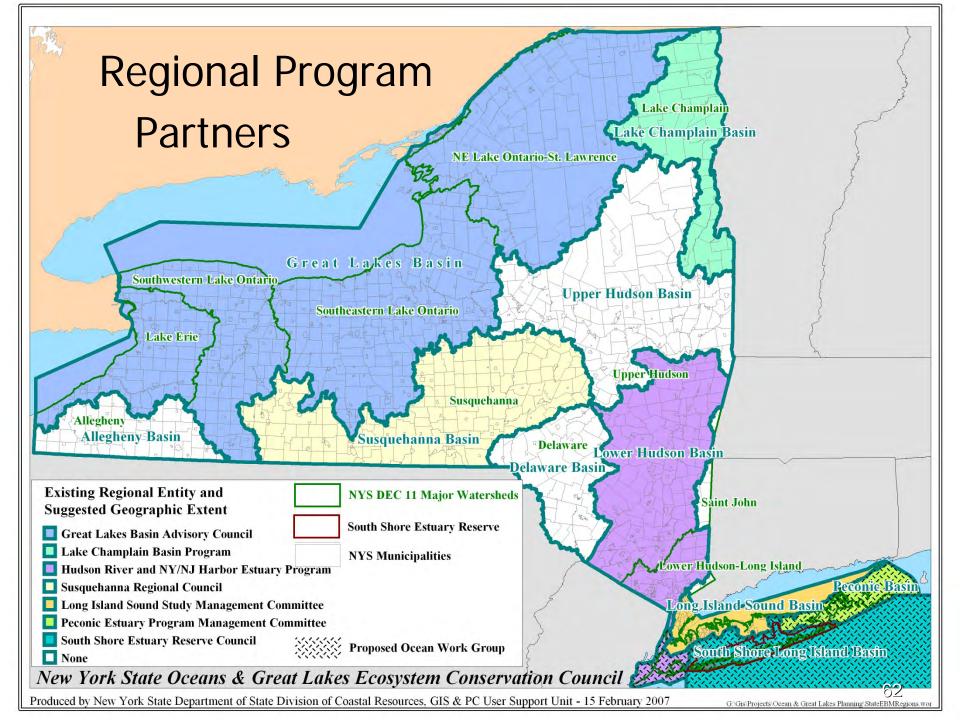
Great South Bay

Sandy Creeks

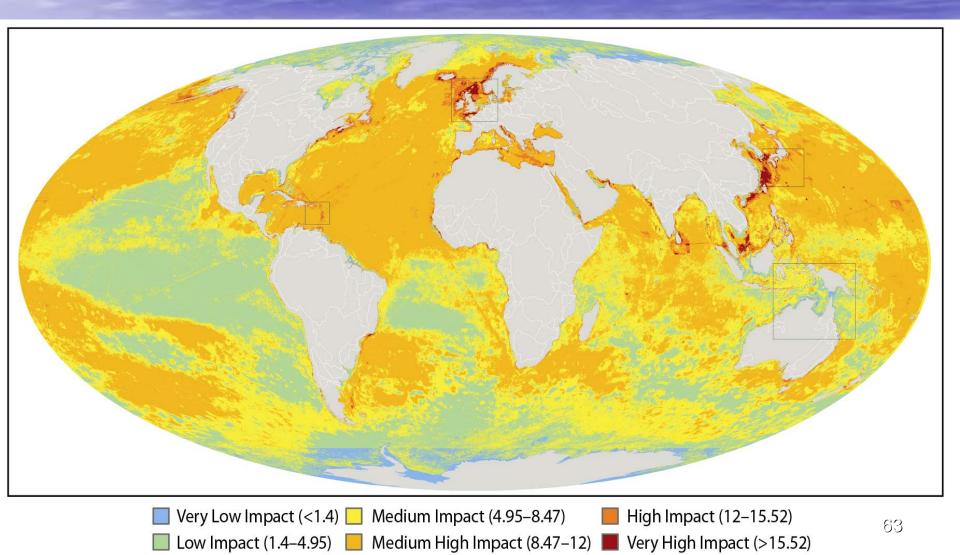
New York's Marine and Great Lakes Beaches in 2006*:

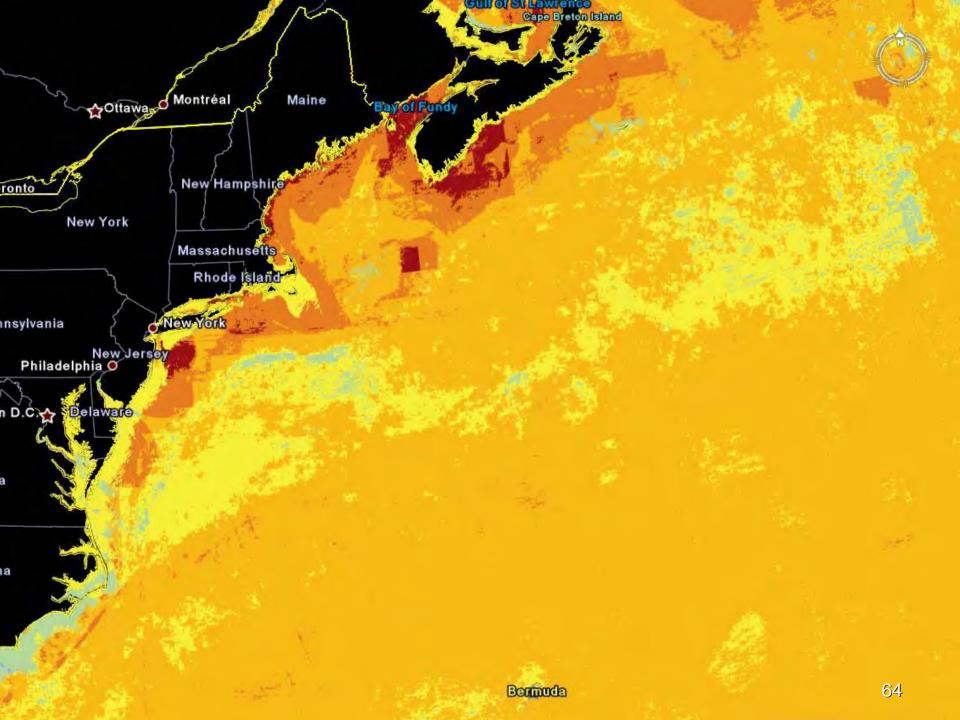
Over 541 beach closings
32 advisories
92 rain advisories

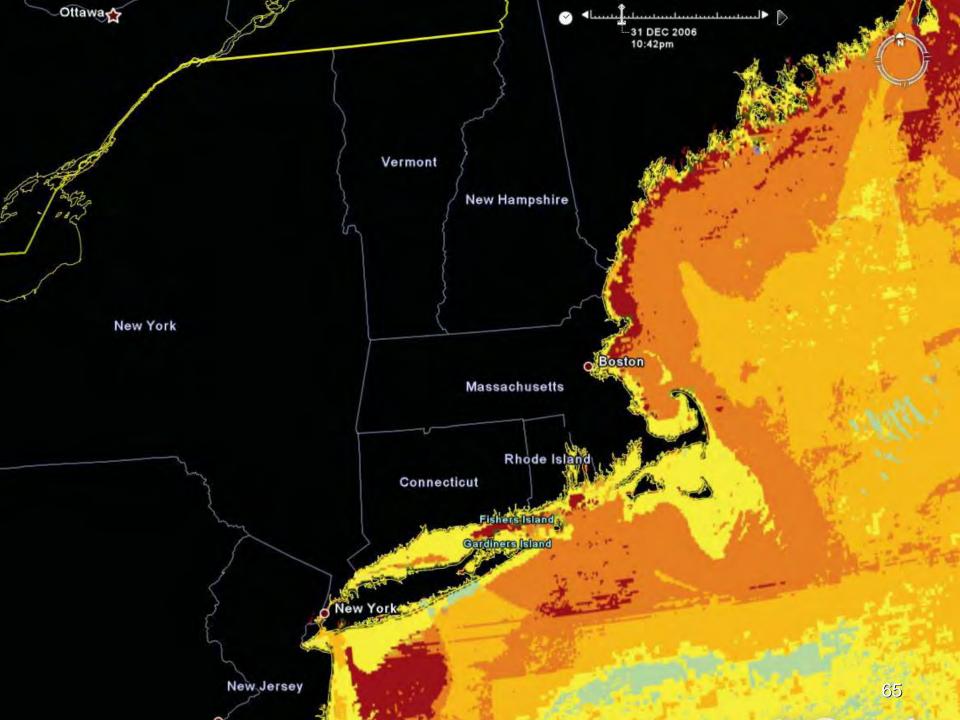
*Surfrider Foundation

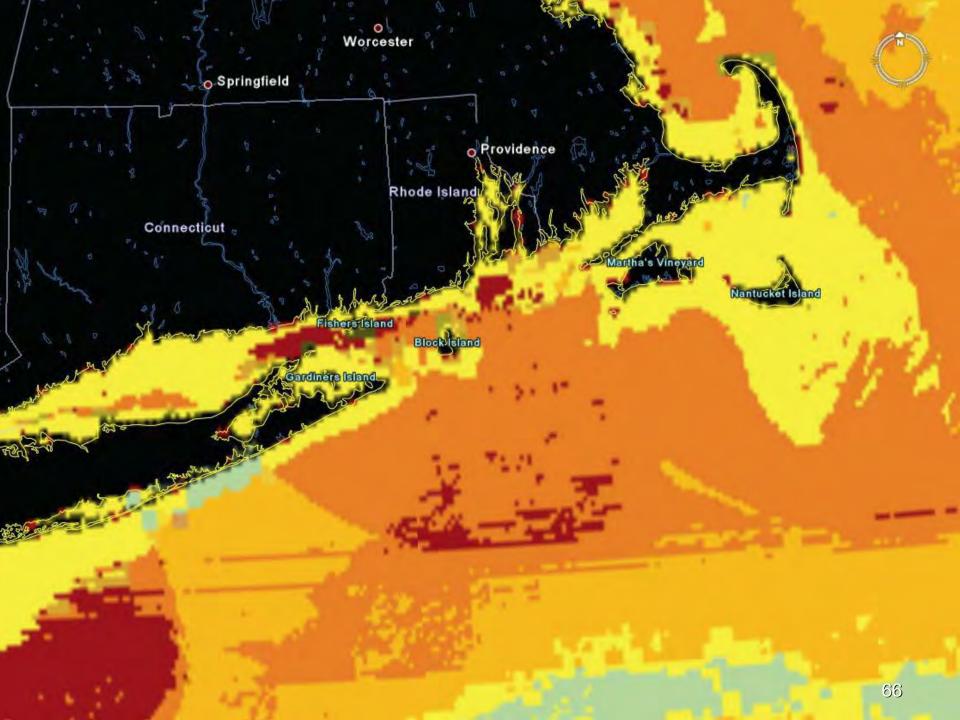


Global Human Impacts Model











New York Ocean and Great Lakes Ecosystem Conservation Council

Transitioning the Ocean and Great Lakes to a Sustainable Future:

IMPLEMENTATION OF E COSYSTEM-BASED MANAGEMENT IN NEW YORK STATE



Staff Report to the Council

September 19, 2007

Report to the Council

Other Regional Partners



Additional Partners

Environmental Facilities Corporation

Providing Low Cost Financing and Technical Assistance to Municipalities, Businesses and State Agencies for Environmental Projects

Clean Water State Revolving Fund



Drinking Water State Revolving Fund (DWSRF)



(CWSRF)

ENVIRONMENTAL FACILITIES CORPORATION (EFC) And Clean Vessel Assistance Program (CVAP) Boater Survey

Environmental Farm Assistance & Resource Management Program



The Work of the Council
The Work of State Agencies
Regional Programs and Partners

 The Work of the Council

 Guide process
 Examine over 200 programs
 Facilitate ecosystem-based management

Development of Agency
Guidelines
Program review
Internal guidance
Integration of ecosystem-based management components

Place-based Programs and Partners
Great Lakes Basin Advisory Council

- Hudson River Estuary Program
- Long Island Sound Study
- New York Harbor Estuary Program
- Peconic Estuary Program
- South Shore Estuary Reserve Program
- Tug Hill Commission

V. Recommendations to the Council

15 Recommendations

 Council structure
 Build on existing programs
 Support ecosystem-based management components

Next Steps

Schedule of deliverables

 December 2007 – Demonstration Areas
 March 2008 – Ocean and Great Lakes Atlas
 June 2008 – First Draft
 September 2008 – Recommended Revisions
 November 2008 – Final Report

