



**NATIONAL SHORELINE
MANAGEMENT STUDY
(NSMS)
Interagency Workgroups
January 2004**

<http://www.iwr.usace.army.mil/NSMS>

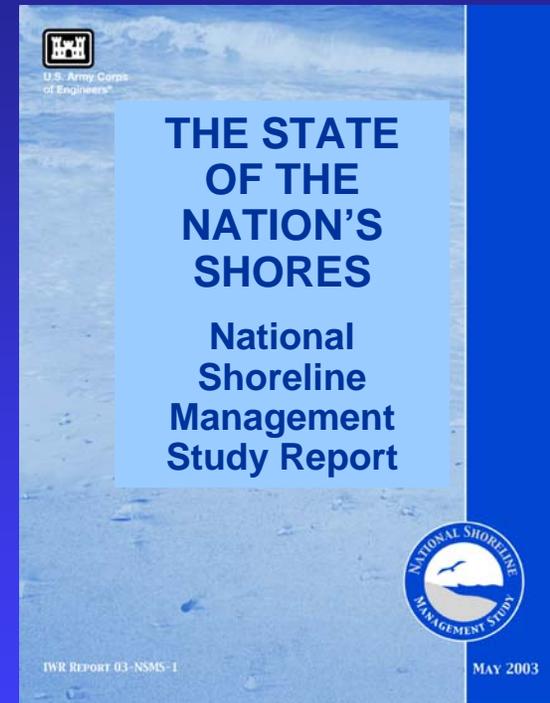
NATIONAL SHORELINE MANAGEMENT STUDY

Meeting objectives

- Understand NSMS and workgroup charges
- Develop workgroup work plan
 - Responsibilities, process, next steps
- Develop initial draft assessment protocol
 - Begin assessing what we need to know
 - Preliminarily agree on any major scope issues

NSMS Authority

- Section 215(c), WRDA 99
- Report to Congress on the State of the Shores of the U.S.
- Identifies report contents
- Data from Atlantic & Pacific Oceans, Great Lakes, & Gulf of Mexico coasts



NSMS - Legislative Components (Sec. 215c, WRDA 1999)

Describe

Shore Process – Extent of Erosion & Accretion, and Causes

Economic Implications of Erosion & Accretion

Environmental Implications of Erosion & Accretion

Describe

Resources Committed by Federal, State, Local Gov'ts to Restore & Renourish Shores

Systematic Movement of Sand along U.S. Shores

Recommend

Objective 1: Appropriate Levels of Federal & Non-Federal Participation in Shore Protection

Objective 2: Use of a Systems Approach to Sand Management



Use Data from Coasts of Atlantic, Pacific, Great Lakes & Gulf of Mexico

NSMS Phases & Schedule

Study Team

Establish plan for Regional Teams

Prepare Interim Reports

Summary Report

Regional Teams

Collect Data for Regions

FY 02 - 04

FY 05 - 06

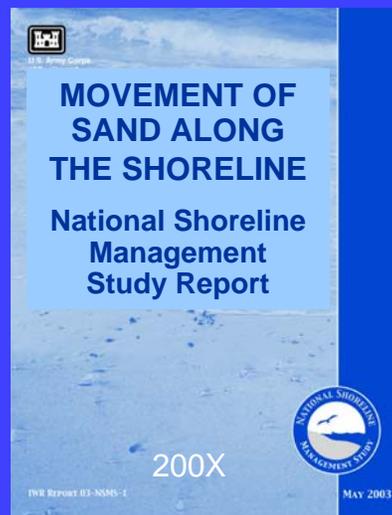
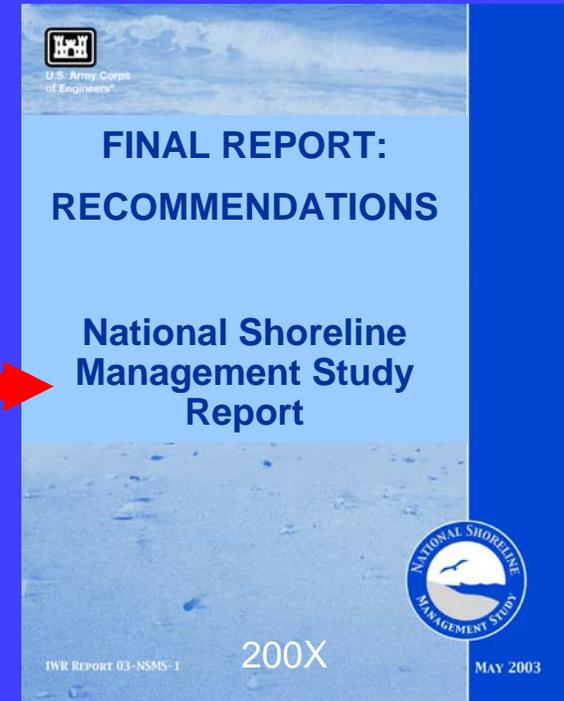
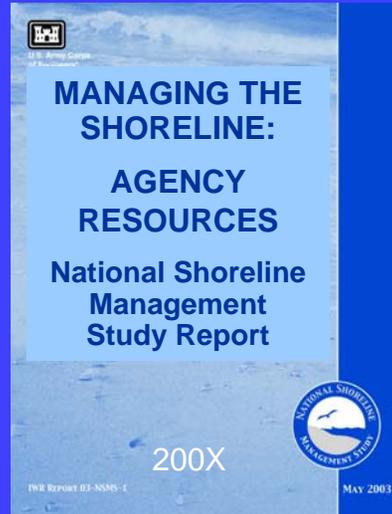
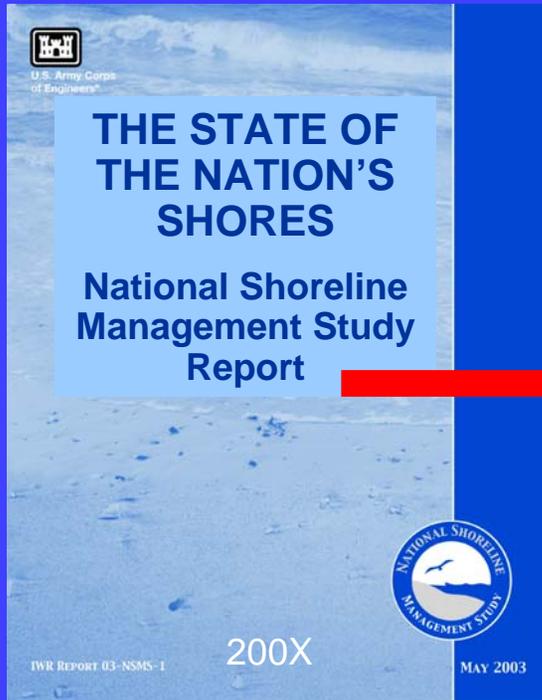
FY 07

Phase I

Phase II

Phase III

NSMS Final Reports



NSMS Roles & Responsibilities



Work Groups

Technical

Shore Processes

**Economic
Implications**

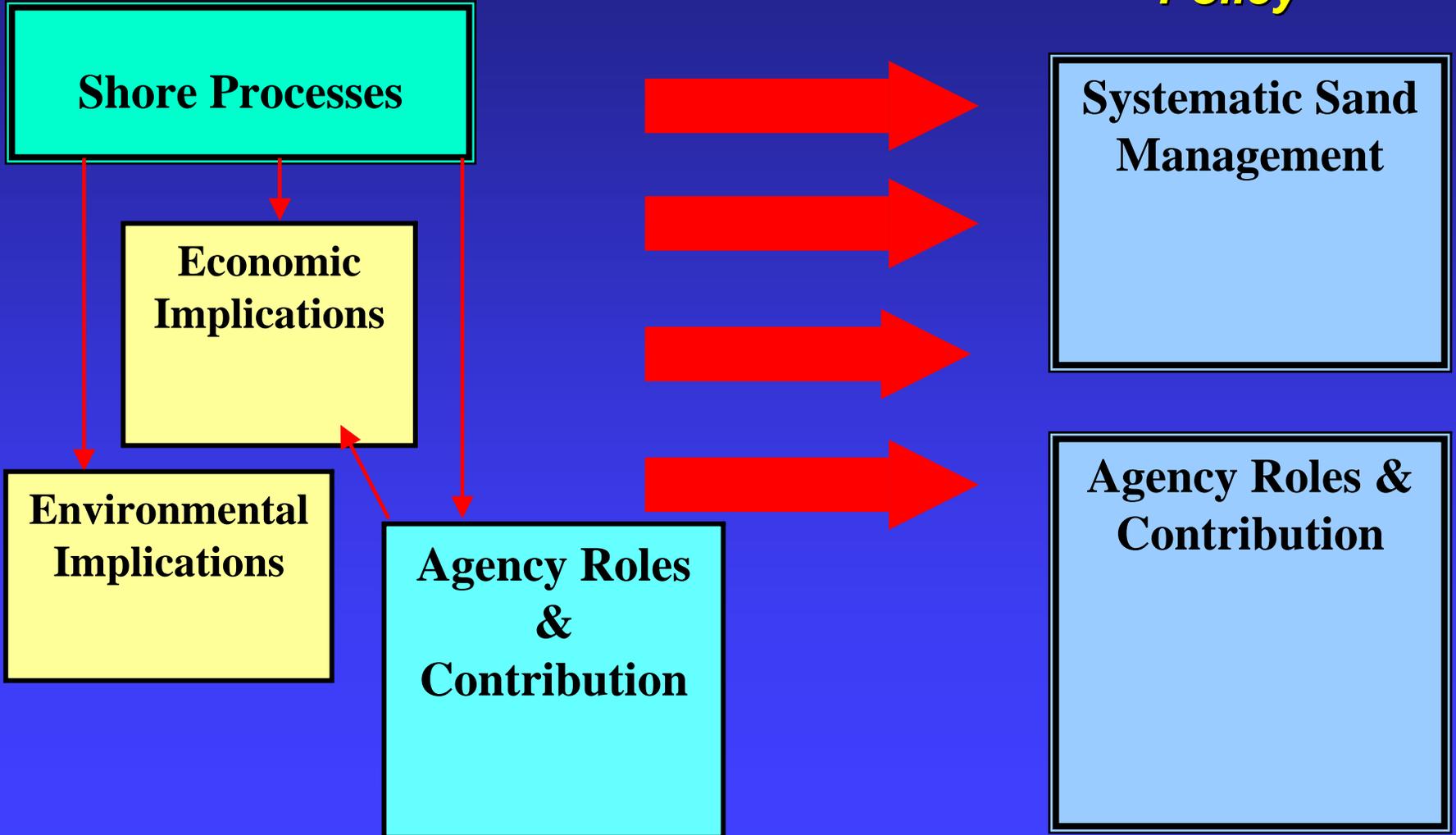
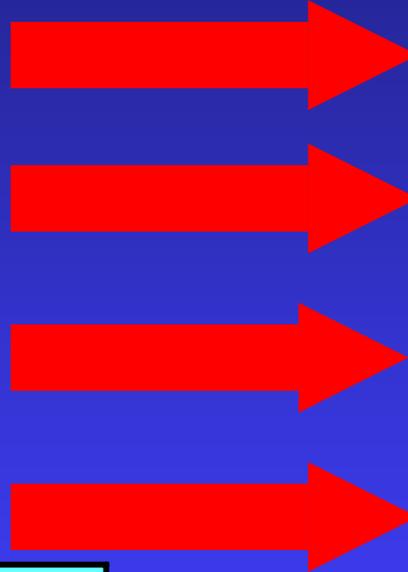
**Environmental
Implications**

**Agency Roles
&
Contribution**

Policy

**Systematic Sand
Management**

**Agency Roles &
Contribution**





US Army Corps of Engineers

THE NATIONAL SHORELINE MANAGEMENT STUDY



- HOME
- STUDY AUTH.
- DOCUMENTS
- LINKS
- CONTACT US

NATIONAL SHORELINE MANAGEMENT STUDY: OVERVIEW

The Corps of Engineers has initiated the National Shoreline Management Study authorized in the Water Resources Development Act of 1999 under Section 215c.

The National Shoreline Management Study presents an opportunity to examine the status of the Nation's shoreline for the first time in 30 years, in order to provide a basis for Federal actions regarding shoreline management for the foreseeable future. The study will provide a technical basis and analytical information useful in developing recommendations regarding shoreline management, including a systems approach to sand management, and roles for Federal and non-Federal participation in shoreline management.

The study will:

- summarize information about the shoreline changes (erosion and accretion) available from existing data sources;
- examine the causes of shoreline erosion and accretion and economic and environmental affects;
- identify and describe the Federal, state and local government programs and resources related to shore restoration and nourishment; and,
- explore ideas concerning a systems approach to sand management.



Reports and other documents available



US Army Corps
of Engineers

THE NATIONAL SHORELINE MANAGEMENT STUDY



DOCUMENTS

Please click on category of interest

- HOME
- STUDY AUTH.
- DOCUMENTS
- LINKS
- CONTACT US



**Assessment of shoreline
change knowledge**

**Economic implications of
shoreline change**

**Agency contributions to
beach restoration and
renourishment**

**Systematic movement
of sand**

<http://www.iwr.usace.army.mil/iwr/NSMS>

**FY04: Establish study
assessment protocol &
regional team process**

National Committee - *Interagency
communications & meetings*

Workgroups - *Meetings, Workshops, Info reviews*

Shore Process -

ERDC-CHL & USGS

Environmental Implications -

ERDC-EL & FWS

Economic Implications -

IWR & NOAA CSC

Agency Roles & Contributions -

NOAA

Systematic Sand Management -

IWR

NSMS Workgroups

Shore Process

Environmental Imp

Economic Implications

Agency Roles & Contributions

Systematic Sand Management

- Charge
- Develop Analytic framework
- Assemble Background Information
- Links (Input from other workgroups)

NSMS Workgroups

Shore Process

Environmental Implications

Economic Implications

Agency Roles

Systematic

- Charge: Environmental implications, including cultural, ecological, & historical
- Mechanisms: Workshop, analytical framework, bibliography, NRC study
- Selected issues: level of detail, indicators, risk concepts, climate change, natural vs anthropogenic changes, thresholds
- Links (Input from other workgroups)

NSMS Workgroups

Shore Process

Environmental Implications

Economic Imp

Agency Roles

Systematic Sa

- Charge:
 - Identify & characterize environmental implications of shoreline erosion & accretion
 - Environmental includes cultural, ecological, & historical resources.
 - Develop a protocol for data collection
 - Coordinate with other workgroups

NSMS Workgroups

Shore Process

Environmental Implications

Economic Implications

Agency Roles & Responsibilities

Systematic Sand Management

- Mechanisms (workshop & electronic communication):
 - Develop analytical framework
 - Prepare annotated bibliography
 - Contribute to NRC study

NSMS Workgroups

Shore Process

Environmental Implications

Economic Im

Agency Role

Systematic S

- Selected issues:
 - Appropriate complexity & level of detail
 - Appropriate indicators of condition – criteria for selection, & selection
 - Use of risk assessment concepts
 - Role of climate change
 - Natural vs anthropogenic changes
 - Thresholds

NSMS Workgroups

Shore Process

Environmental Implications

Economic Implications

Agency

- Charge:
- Mechanisms
- Issues
- Links

Economics Workshop & Proceedings – July 2002

- Economics Literature Annotated Bibliography

Systematic Summary

- Distribution of Benefits
- Fed Gov't Participation in Shore Protection

NSMS Workgroups

Shore Process

Environmental Implications

Economic Implications

Agency Roles & Contributions

- Charge:
- Mechanisms
- Issues
- Links



- Framework
- Corps & Shore Protection

System

Management

Virginia Beach

NSMS Workgroups

Shore Process

Environmental Implic

Economic Implication

Agency Roles & Cont

Systematic Sand Mar

Virginia Beach



U.S. Army Corps
of Engineers®

THE CORPS OF ENGINEERS AND SHORE PROTECTION

- *History*
- *Projects*
- *Costs*



IWR REPORT 03-NSMS-1

MAY 2003

NSMS Workgroups

Shore Process

Environmental Implications

Economic Implications

Agency Roles & Contributions

Systematic Sand Management

- **Charge:** Recommendations to Congress
- **Mechanisms:** Info from Shore Process WG, RSM Demos, Stakeholder Mtgs
- **Issues:** other sediments? Regional nuances
- **Links**



NSMS Study Scope

- **Shoreline Described**
- **Geographic Extent**
- **Regional Teams**
- **Temporal Extent**

Wrightsville Beach, NC

NSMS Study Scope

Shorelines Described

- Shores affected by coastal erosion processes.
- Thus at a minimum those shorelines within bays, estuaries, & the Great Lakes exposed to sufficient open water fetch to allow a 3-foot wave (the FEMA V-zone criteria).
- Further, Regional Teams could extend coverage into back bays & up rivers as far as the "head of tide." This would only happen if the Regional teams identify a rationale for extending the coverage based upon criteria, e.g., (1) evidence of significant land losses due to wave erosion or reduced sediment supply, (2) economic risk areas of high interest, (3) critical coastal ecosystem areas that are endangered.

NSMS Study Scope

Geographic Extent

- **Coastal States & Territories**
- **Level of detail may vary**

NSMS Study Scope Regions

<i>National Shoreline Study 1971</i>	<i>US Commission on Ocean Policy proposed regions</i>	<i>NOAA Fisheries</i>	
		<i>Regions</i>	<i>Management Councils</i>
N. Atlantic	Gulf of Maine	Northeast	New England
	N. Atlantic		Mid-Atlantic
S. Atlantic-Gulf	S. Atlantic	Southeast	S. Atlantic
			Caribbean
Lower Mississippi	G. Mexico		G. Mexico
Texas Gulf			
Great Lakes	Great Lakes		
S. Pacific	Pacific Coast	Southwest	Pacific
N. Pacific		Northwest	
Alaska	Alaska	Alaska	N. Pacific
Hawaii		Pacific	W. Pacific

NSMS Study Scope

Regional Teams

- To be defined based on geography
- **Potential grouping:** North Atlantic, South Atlantic, Gulf of Mexico, Great Lakes, South Pacific, North Pacific, Pacific Ocean (Alaska & Hawaii) & Territories
- **Note: 1971 National Shoreline Study regions:** No. Atlantic, So. Atlantic, Gulf of Mexico, Lower Mississippi, Texas Gulf, Great Lakes, So. Pacific, No. Pacific, Alaska, Hawaii
- **Note: US Commission on Ocean Policy proposed eco-regions:** Gulf of Maine, No. Atlantic, So. Atlantic, Gulf of Mexico, Great Lakes, Pacific Coast, Alaska
- **Note: NOAA Fisheries has 6 regions with authority over 9 Fishery Management Councils:** NE Region (New England & Mid-Atlantic Councils), SE Region (South Atlantic, Caribbean, & Gulf of Mexico Councils), SW Region (Pacific Council), NW Region (Pacific Council), Alaska Region (No. Pacific Council), & Pacific Islands (Western Pacific Council)

NSMS Study Scope

Other Issues

- **Assumptions & Terms**
- **Level of Detail (e.g., km, county, ecological breaks, littoral cells???)**
- **Study Approach Structure**
(continuous? characteristic study areas?
statistically significant coverage?)

NSMS

Next Actions

National Committee

Feedback to Workgroups

Refine major study scope positions

Keep all informed on progress via e-mails

Workgroups

Continue coordination & communication











Home
Dist

McShane



NSMS draft mission statement

To provide a report and recommendations to Congress by an interagency team on shore management, including the efficient, effective, and systematic management of our nation's sand/sediment resources.

The report will describe the status and causes of coastal erosion and accretion, the environmental and economic effects of that shore change, identify the capacity of government agencies to address these issues, and make recommendations for the appropriate level of Federal and non-Federal participation in shore protection.