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# **CERB Initiatives on Systems Approach to Coastal Management**

**Brigadier General Todd T. Semonite  
Commander, US Army Corps of Engineers  
North Atlantic Division**

**And**

**Donald E. Cresitello  
New York District**

**23 September 2008**

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# Developing a Systems Approach to Coastal Protection



- Prototype the ***Shore Protection System*** within North Atlantic Division – include multiple business lines (shore protection, navigation and coastal ecosystem restoration).
- Develop the shore protection system within the context of RSM to ***collaboratively resolve sediment-related issues.***
- Connect with other federal agencies (i.e. NOAA, FEMA, MMS), States, and academia to form a ***regional alliance*** to ***improve risk communication and hazard mitigation*** and to ***increase community resilience.***

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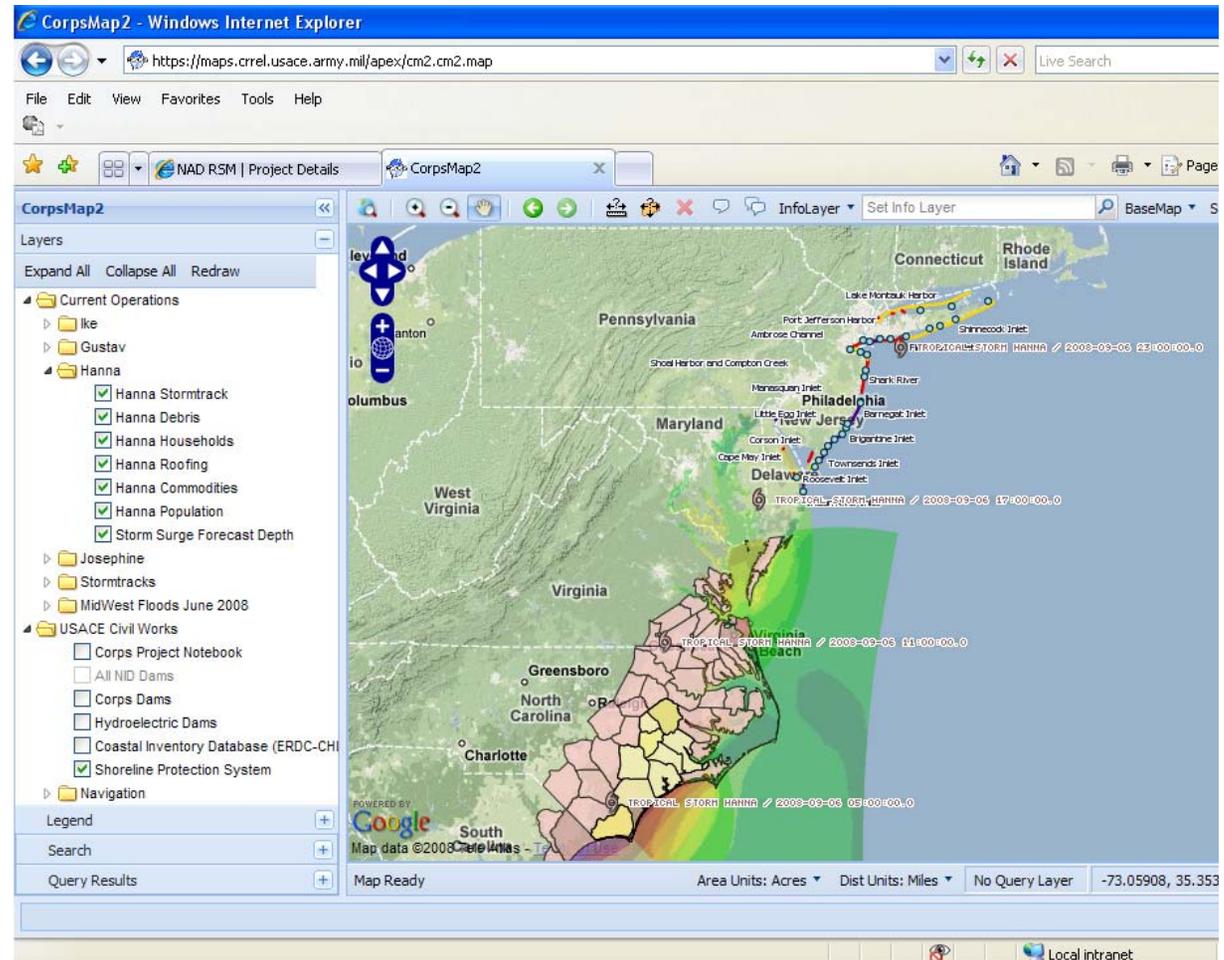


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# Integrating the Shore Protection System within the USACE Civil Works Network



- Provides *in-ground inventory* of shore protection, navigation, and coastal ecosystem restoration projects.
  - ✓ Shown as component of the Civil Works program.
  - ✓ Display expected impact areas during any storm event.
- *Projected enhancements* – model project impacts helping to identify project needs.
- Allows for *proactive* Emergency Management Measures/Mitigation.
- Linked with CorpsMap2 → Corps-wide GIS-based information system.



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# Outline



- Background
- Purpose
- First Steps
- First Successes
- Next Steps



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# Background



- Demonstrate **significance of the service provided to the nation** by the Corps' shore protection program through economic development, ecosystem restoration and navigation.
- **Assess damages prevented across a system of projects** - charge from Congress following 2004 Hurricane season
- CG USACE charge for Division Commander to **spearhead systems approach**
  - ✓ CERB to guide the development of a systems approach for coastal protection.
  - ✓ General Semonite volunteered to lead.
- Congressman Pallone at the Fall 2006 CERB
  - ✓ Projects not managed as a system.
  - ✓ Projects not budgeted for as a system.



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# Purpose



## ➤ Systems Approach

- Take a ***systems approach to managing shore protection projects*** as a step to implementing systems approach to coastal protection.
- Improve ***project lifecycle performance and efficiencies*** through a systems approach.
- Improve ***level of service*** provided by existing coastal program by managing as a system of projects.
- Develop ***strategy for implementation*** (sequencing) of system of projects.



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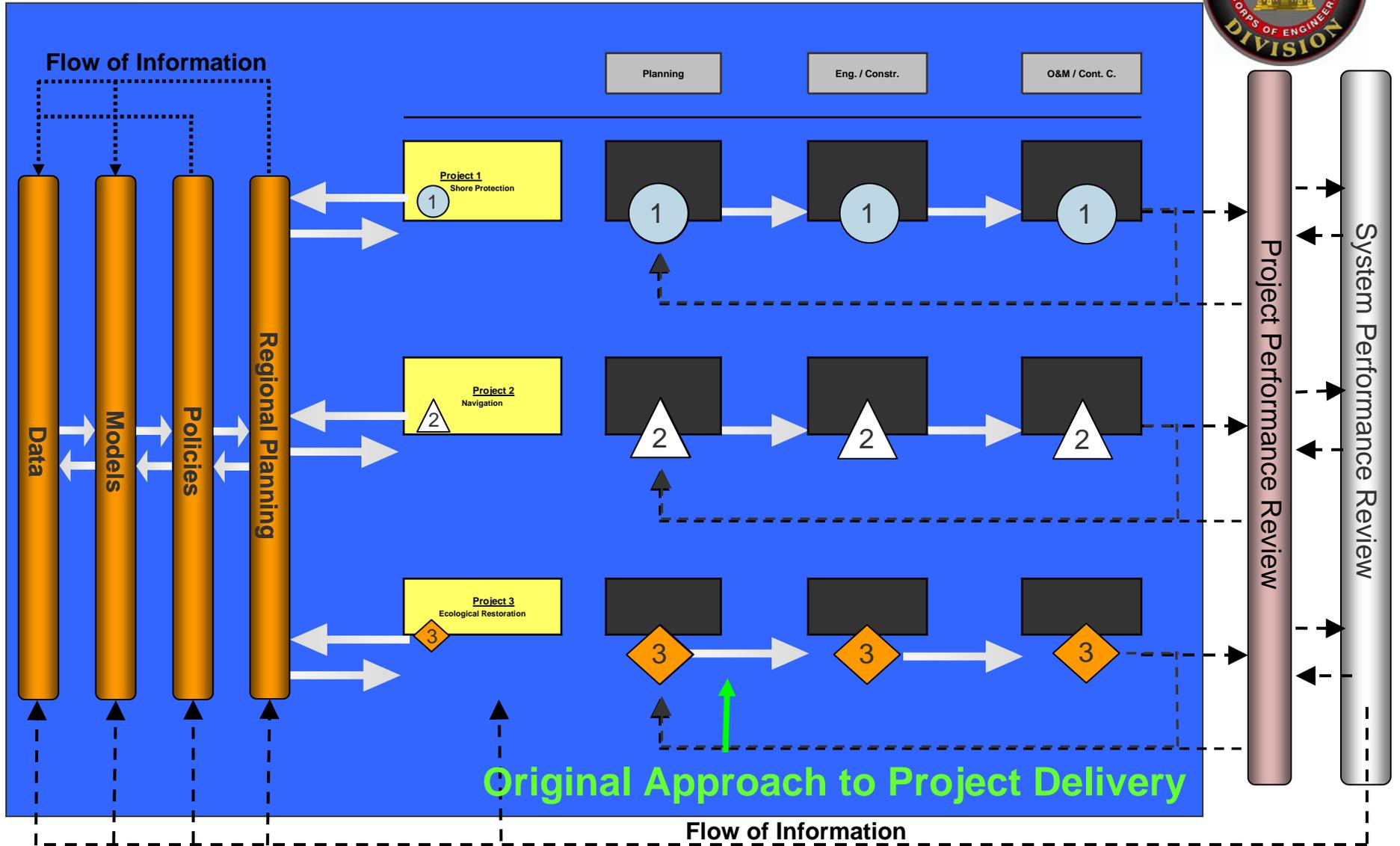
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# "Systems" Approach to Project Delivery



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## Purpose cont'd



### ➤ Regional Sediment Management

- Manage system of shore protection projects within an **RSM context**.
- RSM is a systems-based approach for **collaboratively resolving sediment-related issues** within a region.
- Sediment within a region must be viewed as a **resource** → within some systems sediment considered a **commodity** for competing end-users.
- Increase efforts utilizing available authorities and **relationships** to utilize sand and other sediments in a beneficial manner.
- Outline business plan in RSM context to **support Congressional decision making**.



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## Purpose cont'd



- **Communicating Risks**
  - Develop systems approach to coastal protection by **linking all business lines in coastal program** (i.e. Navigation and Ecosystem Restoration) and linking all stakeholders that have role in coastal protection.
  - Externally **link** activities with other **hazard reduction, coastal management/protection and risk communication** efforts of **other governmental entities** (i.e. FEMA, NOAA, MMS, NPS, State governments, etc.) to achieve systems approach to coastal protection.



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# First Steps



- Develop a Technical Review Document
  - ✓ ***Provide inputs to Congressional staffers.***
    - Programmatic budgetary impacts.
- Create Functional Database (Portfolio of Projects)
  - ✓ Available on NAD's RSM project website.
  - ✓ ***Tool*** developed to help visualize projects within a system.
  - ✓ Provides ***technical project information*** useful to making budgetary decisions.
  - ✓ Not yet used to support current budgeting process.
  - ✓ Can be used to evaluate potential cumulative dredging requirements within District/Region/Division for shore protection and navigation optimizing mobilization and administration over long-term project life.
- Hold Stakeholder Workshop
  - ✓ Include broad spectrum of interests.
  - ✓ Inform Corps of where it fits within the system.
  - ✓ Identify internal actions versus collaborative actions.

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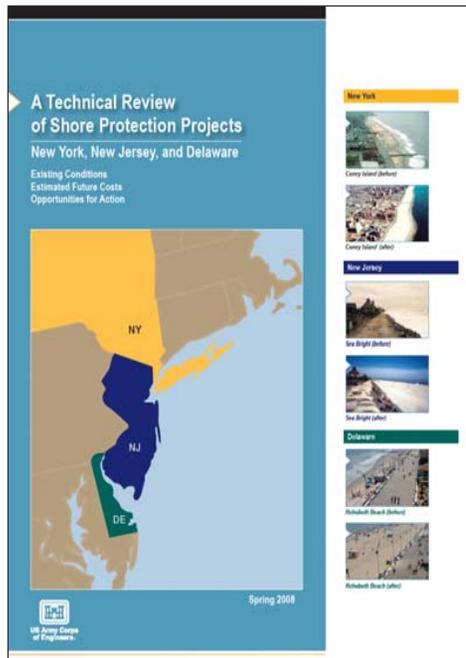


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# First Successes



- Technical Review Document
- Functional Web Database
- Multi-agency Workshop held at Monmouth University – Urban Coast Institute



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# Technical Review Document and Functional Web Database



- Summarizes existing conditions, estimated future federal costs, and opportunities for action for all shore protection, navigation, and coastal ecosystem restoration projects in NAD.



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- ✓ Give
- ✓ Doc
- ✓ Eval

# Interpreting the Tables

## Existing Conditions Tables: Shore Protection Projects (Per State)

### Project Reliability (Spring 2008)

Project reliability has been evaluated for shore protection projects only.

#### • Constructed Projects (Shore Protection)

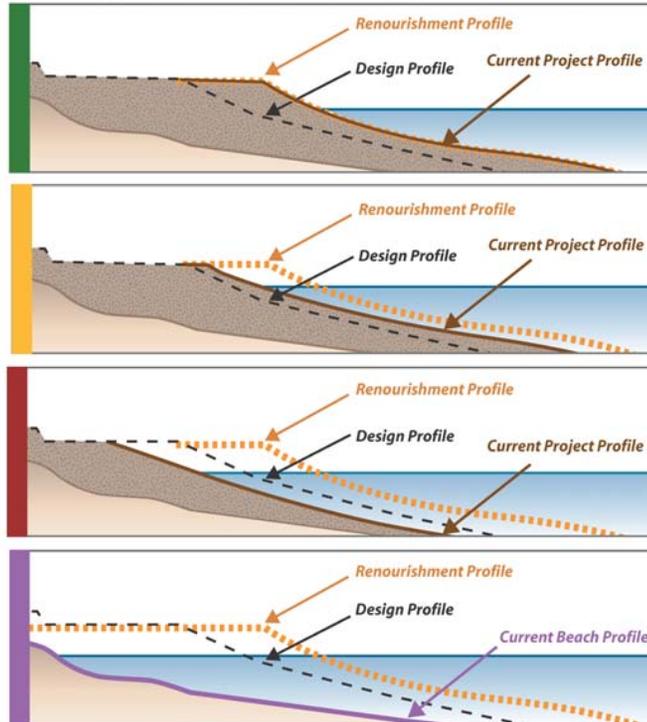
All **constructed** shore protection projects listed in the Existing Conditions tables are color coded so that readers can determine **current project reliability at a glance**. For example, "red" shore protection projects are less reliable than "yellow" shore protection projects. "Yellow" shore protection projects are less reliable than "green" shore protection projects, which are performing well.

#### • Unconstructed Projects (Shore Protection)

All **unconstructed** shore protection projects listed in the Existing Conditions tables are color coded in purple. These projects have significant shore protection problems identified.

#### • Other Projects

Navigation and environmental restoration projects are shown in white.



**Green = Good**  
Project is early in the renourishment cycle, or the project is performing better than expected, or both.

**Yellow = Intermediate**  
Project is midway through the renourishment cycle, or the project is performing worse than expected, or both.

**Red = Poor**  
Project is late in the renourishment cycle or below the design profile.

**Purple = Unconstructed**  
Project reliability is not applicable for unconstructed projects. These projects have significant shore protection problems identified.

These diagrams – which compare the **current project profile** with the **design profile** and the **renourishment profile** – give readers a general sense of **overall project reliability** for projects identified as either green, yellow, red, or purple.



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**Interpreting the Tables**

**Existing Conditions Tables: Shore Protection Projects (Per State)**

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- Unconstructed Projects (Shore Protection)**  
All unconstructed shore protection projects listed in the Existing Conditions tables are color coded in purple. These projects have significant shore protection problems identified.
- Other Projects**  
Navigation and environmental restoration projects are shown in white.

These diagrams – which compare the current project profile with the design profile and the renourishment profile – give readers a general sense of overall project reliability for projects identified as either green, yellow, red, or purple.

**Estimated Future Costs (Federal): Shore Protection Projects in New York**

*Only Federal-funded shore protection, navigation, and environmental restoration projects.*

*Investigation in Long Beach, New York. Most of the projects in this table are in the Long Beach area. The projects in this table are color-coded by project status: Green (Completed), Yellow (Underway), Red (Not Started), and Purple (Unconstructed).*

*Estimated Future Costs (Federal): Shore Protection Projects in New York*

Project Name	Year	Estimated Future Costs (Federal)				
		2008	2009	2010	2011	2012
<b>Long Beach</b>	2008	\$1,700,000	\$750,000	\$750,000	\$750,000	\$750,000
<b>Long Beach</b>	2009	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2010	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2011	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2012	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2013	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2014	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2015	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2016	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2017	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2018	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2019	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2020	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2021	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2022	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2023	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2024	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2025	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2026	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2027	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2028	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2029	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2030	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2031	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2032	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2033	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2034	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2035	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2036	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2037	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2038	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2039	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2040	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2041	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2042	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2043	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2044	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2045	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2046	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2047	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2048	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2049	\$0	\$0	\$0	\$0	\$0
<b>Long Beach</b>	2050	\$0	\$0	\$0	\$0	\$0



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# Functional Web Database SO WHAT's



- Provides one common location for project information.
- Creates significant *efficiencies* for project managers.
- Projects mapped using Google Earth interface.
- Not intended to replace the Digital Project Notebook.



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*Enterprise Data Management For North Atlantic Division*

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*Regional Sediment Management*

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The website is now displaying data for all Districts.

North Atlantic Division  
**Regional Sediment Management**

In the past, the US Army Corps of Engineers (USACE) has focused on managing sand at coastal projects on a project-by-project basis. This approach to sand management may not adequately consider the impact of individual projects on down drift projects. To address this issue, the USACE has initiated efforts to assess the benefits of managing sediment resources as a regional scale resource rather than a localized project resource. The concept of Regional Sediment Management (RSM) is a result of the 67th meeting of the Coastal Engineering Research Board (CERB) held in May 1998.

[Read more about this RSM program](#)

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**RSM Website**  
<http://rsm.nad.usace.army.mil/index.asp>

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### RSM Related Projects

Looking for GIS Maps? [CLICK HERE](#) to view the NAD *Shore Protection Projects* in **Google Earth** ([Download Google Earth](#)).

To view project details, status, and related documents **click the Project Name**.

([View by State](#)) | ([View by Geographic Area](#))

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- [+ New England District](#)
- [+ New York District](#)
- [+ Norfolk District](#)
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Projects can be viewed by District, State, and Geographic Area.

NAD Projects

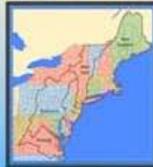
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- [+ Baltimore District](#)
- [+ New England District](#)
- [- New York District](#)

Shore Protection Projects

Project Name	State	Congressional District(s)	Type
<a href="#">Fire Island Inlet to Montauk Point, NY Reformulation</a>	NY	1,2,3	Shore Protection
<a href="#">Montauk Point</a>	NY	1	Shore Protection
<a href="#">West of Shinnecock Inlet</a>	NY	1	Shore Protection
<a href="#">Westhampton</a>	NY	1	Shore Protection
<a href="#">Fire Island Inlet to Shores Westerly</a>	NY	2,3	Shore Protection
<a href="#">Atlantic Coast of Long Island: Jones Inlet to Rockaway Inlet - Long Beach Island Rockaway Inlet - Long Beach Island</a>	NY	3,4	Shore Protection
<a href="#">East Rockaway Inlet to Rockaway Inlet</a>	NY	6, 9	Shore Protection

New York District Shore Protection Projects and Studies

Continued list of New York District Shore Protection Projects and Studies

<a href="#">East Rockaway Inlet to Rockaway Inlet Section 934</a>	NY	6, 9	Shore Protection
<a href="#">East Rockaway Inlet to Rockaway Inlet Reformulation</a>	NY	6, 9	Shore Protection
<a href="#">Coney Island</a>	NY	8	Shore Protection
<a href="#">Coney Island (T-groins)</a>	NY	8	Shore Protection
<a href="#">South Shore of Staten Island</a>	NY	13	Shore Protection
<a href="#">North Shore of Long Island</a>	NY	1,2,3	Shore Protection
<a href="#">Lake Montauk Harbor</a>	NY	1	Shore Protection
<a href="#">Mattituck 111</a>	NY	1	Shore Protection
<a href="#">Asharoken</a>	NY	2	Shore Protection
<a href="#">Bavville</a>	NY	3	Shore Protection
<a href="#">Orchard Beach</a>	NY	7	Shore Protection
<a href="#">Sea Bright - Manasquan</a>	NJ	6, 4	Shore Protection
<a href="#">Sea Bright - Manasquan: Sea Bright</a>	NJ	6	Shore Protection
<a href="#">Sea Bright - Manasquan: Monmouth Beach</a>	NJ	6	Shore Protection
<a href="#">Sea Bright - Manasquan: Long Branch</a>	NJ	6	Shore Protection
<a href="#">Sea Bright - Manasquan: Deal</a>	NJ	6	Shore Protection
<a href="#">Sea Bright - Manasquan: Asbury to Avon</a>	NJ	6	Shore Protection
<a href="#">Sea Bright - Manasquan: Belmar to Manasquan</a>	NJ	6, 4	Shore Protection
<a href="#">Highlands</a>	NJ	6	Shore Protection
<a href="#">Leonardo</a>	NJ	6	Shore Protection
<a href="#">Port Monmouth</a>	NJ	6	Shore Protection
<a href="#">Keansburg</a>	NJ	6	Shore Protection
<a href="#">Keansburg 506</a>	NJ	6	Shore Protection
<a href="#">Union Beach</a>	NJ	6	Shore Protection
<a href="#">Keyport</a>	NJ	6	Shore Protection
<a href="#">Laurence Harbor</a>	NJ	6	Shore Protection
<a href="#">Laurence Harbor 506</a>	NJ	6	Shore Protection

<a href="#">Sea Bright - Manasquan: Asbury to Avon</a>	NJ	6	Shore Protection
<a href="#">Sea Bright - Manasquan: Belmar to Manasquan</a>	NJ	6, 4	Shore Protection
<a href="#">Highlands</a>	NJ	6	Shore Protection
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<a href="#">Port Monmouth</a>	NJ	6	Shore Protection
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<a href="#">Union Beach</a>	NJ	6	Shore Protection
<a href="#">Keyport</a>	NJ	6	Shore Protection
<a href="#">Laurence Harbor</a>	NJ	6	Shore Protection
<a href="#">Laurence Harbor 506</a>	NJ	6	Shore Protection

[Navigation Projects](#)

Project Name	State	Congressional District(s)	Type
<a href="#">Shinnecock Inlet</a>	NY	1	Navigation
<a href="#">Moriches Inlet</a>	NY	1	Navigation
<a href="#">Fire Island Inlet</a>	NY	2, 3	Navigation
<a href="#">Jones Inlet</a>	NY	3	Navigation
<a href="#">East Rockaway Inlet</a>	NY	3, 6, 9	Navigation
<a href="#">Long Island Intracoastal</a>	NY	1	Navigation
<a href="#">Rockaway Inlet</a>	NY	9	Navigation
<a href="#">Ambrose Channel</a>	NY		Navigation
<a href="#">Lake Montauk Harbor</a>	NY	1	Navigation
<a href="#">Mattituck Inlet</a>	NY	1	Navigation
<a href="#">Port Jefferson Harbor</a>	NY	1	Navigation
<a href="#">Shark River Inlet</a>	NJ	6	Navigation
<a href="#">Shrewsbury River</a>	NJ	6	Navigation
<a href="#">Shoal Harbor and Compton Creek</a>	NJ	6	Navigation
<a href="#">Cheesequake Creek</a>	NJ	6	Navigation

New York District Navigation Projects

- [+ Norfolk District](#)
- [+ Philadelphia District](#)
- [+ Europe District](#)

<a href="#">East Rockaway Inlet to Rockaway Inlet Section 934</a>	NY	6, 9	Shore Protection
<a href="#">East Rockaway Inlet to Rockaway Inlet Reformulation</a>	NY	6, 9	Shore Protection
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<a href="#">Sea Bright - Manasquan: Sea Bright</a>	NJ	6	Shore Protection
<a href="#">Sea Bright - Manasquan: Manasquan Beach</a>	NJ	6	Shore Protection
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<a href="#">Laurence Harbor</a>	NJ	6	Shore Protection
<a href="#">Laurence Harbor 506</a>	NJ	6	Shore Protection

Navigation Projects

To view additional data about a project, select the project name.

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### Project Details

## Sea Bright - Manasquan: Long Branch

**Details**

<b>USACE District</b>	CENAN	<b>Congressional District(s)</b>	6
<b>Type</b>	Shore Protection	<b>Project Length</b>	3 miles
<b>Category</b>	Beach Fill	<b>State</b>	NJ

[+ View Project Coordinates](#)

### Condition & Report

**Status**

**Project Reliability** (Beach Condition)\*: Red

**Condition Notes:**  
[+ View Color Legend](#)

#### Damage Risk Assessments

Structures (homes, navig. Structures, etc.)	Environment/ Habitat	Infrastructure	Critical Facilities	Evacuation Routes	Recreation
+++	++	+++	++	++	+++

**Notes:** Renourishment of constructed segments has been delayed beyond the six year renourishment cycle; The cumulative construction cost for the Sea Bright to Manasquan project has been pro-rated by reach.

[+ View Risk Assessment Legend](#)

#### Project Details

Reconnaissance	Feasibility	Chief's Report	Authorized for Construction
	Jan-1989		1986/1988/1992

Initial Construction: Initial Construction:

**- View Color Legend**

**Red - Poor.** Project is at or below the design profile.

**Yellow - Intermediate.** Project is late in the renourishment cycle, or the project is performing worse than expected, or both.

**Green - Good.** Project is early in the renourishment cycle, or the project is performing better than expected, or both.

**Purple - Unconstructed.** Project reliability is not applicable for unconstructed projects. For projects not yet constructed, the following will be considered: beach width, beach elevation, dune condition and erosion rates evaluated independently on a red, yellow, green scale.



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**Project Details**

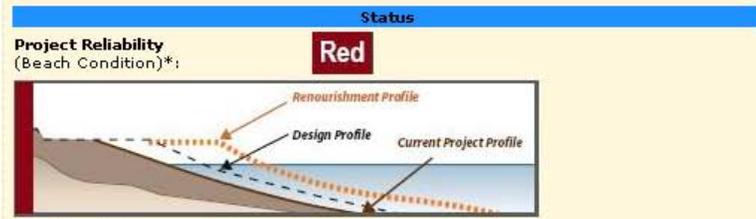
**Sea Bright - Manasquan: Long Branch**

Details

<b>USACE District</b>	CENAN	<b>Congressional District(s)</b>	6
<b>Type</b>	Shore Protection	<b>Project Length</b>	3 miles
<b>Category</b>	Beach Fill	<b>State</b>	NJ

[+ View Project Coordinates](#)

**Condition & Report**



**Condition Notes:**  
[+ View Color Legend](#)

**Damage Risk Assessments**

Structures (homes, navig. Structures, etc.)	Environment/Habitat	Infrastructure	Critical Facilities	Evacuation Routes	Recreation
+++	++	+++	++	++	+++

**Notes:** Renourishment of constructed segments has been delayed beyond the six year renourishment cycle; The cumulative construction cost for the Sea Bright to Manasquan project has been pro-rated by reach.

[+ View Risk Assessment Legend](#)

**Project Details**

Reconnaissance	Feasibility	Chief's Report	Authorized for Construction
	Jan-1989		1986/1988/1992
<b>Initial Construction:</b>		<b>Initial Construction:</b>	

**- View Risk Assessment Legend**

Structures

+++ : High density population; urban  
++ : Medium density population; suburban  
+ : Low density; rural

Environment/Habitat

+++ : Critical or highly valued natural habitat  
++ : Valued natural habitat  
+ : Little or no natural habitat

Infrastructure

+++ : Roads, water, sewer serving high population density  
++ : Roads, water, sewer serving medium population density  
+ : Roads, water, sewer serving low population density

Critical Facilities

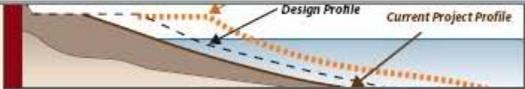
+++ : High density of facilities  
++ : Medium density of facilities  
+ : Low density of facilities

Evacuation Routes

+++ : Routes serving high population density  
++ : Routes serving medium population density  
+ : Routes serving low population density

Recreation

+++ : High use recreation area  
++ : Medium use recreation area  
+ : Low use recreation area



**Condition Notes:**

[+ View Color Legend](#)

Damage Risk Assessments					
Structures (homes, navig. Structures, etc.)	Environment/ Habitat	Infrastructure	Critical Facilities	Evacuation Routes	Recreation
+++	++	+++	++	++	+++

**Notes:** Renourishment of constructed segments has been delayed beyond the six year renourishment cycle; The cumulative construction cost for the Sea Bright to Manasquan project has been pro-rated by reach.

[+ View Risk Assessment Legend](#)

Project Details				
<b>Reconnaissance</b>	<b>Feasibility</b>	<b>Chief's Report</b>	<b>Authorized for Construction</b>	
	Jan-1989		1986/1988/1992	
<b>Reevaluation</b>	<b>PCA</b>	<b>Initial Construction: Initiated</b>	<b>Initial Construction: Complete</b>	
	July-1992	1997	1998	
<b>Renourishment Initiated</b>	<b>Estimated Initial Fill Quantity (cy)**</b>	<b>Actual Initial Fill Quantity (cy)**</b>	<b>Renourishment Cycle (Yrs)</b>	
	4,652,000	4,300,000	6	
<b>Estimated Renourishment Fill Quantity (cy)</b>	<b>Actual Renourishment Fill Quantity (cy)</b>	<b>Date of Last Renourishment Operation</b>	<b># of Renourishment Operations Performed</b>	
881,000	N/A			
<b>Date of Next Scheduled Renourishment Operation</b>	<b>Estimated Cumulative Construction Cost (Price Level)</b>	<b>Actual Cumulative Construction Cost (Price Level)</b>	<b>Expected Cost for Next 5 Years</b>	<b>Phase***</b>
2007	\$262,000,000 (2006)	\$29,500,000 (1998)	\$8,200,000	R

\*\* - The initial fill quantity reflects the amount of fill specified in the originally constructed project.

\*\*\* - S = Study ; E = Pre-construction engineering and design ; A = Awaiting initial construction funds ; P = Partial construction funds received ; C = Initial construction completed ; R = Renourishment(s) initiated ; N = Navigation maintenance ; F = Finished

**Documents**

2 Available Document(s)

Name	Description
<a href="#">Project Website</a>	<a href="http://www.nan.usace.army.mil/business/prilinks/coastal/sandyhok/index.htm">http://www.nan.usace.army.mil/business/prilinks/coastal/sandyhok/index.htm</a>
<a href="#">Website Factsheet</a>	<a href="http://www.nan.usace.army.mil/project/newiers/factsheet/pdf/barneq.pdf">http://www.nan.usace.army.mil/project/newiers/factsheet/pdf/barneq.pdf</a>

Attach related documents, images, and websites.

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<< Back to Project List **Open Map**

### Project Details

## Sea Bright - Manasquan: Long Branch

Details

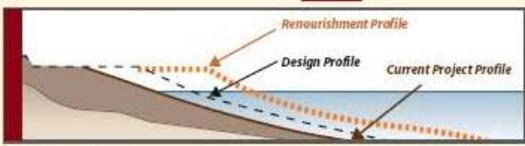
<b>USACE District</b>	CENAN	<b>Congressional District(s)</b>	6
<b>Type</b>	Shore Protection	<b>Project Length</b>	3 miles
<b>Category</b>	Beach Fill	<b>State</b>	NJ

+ View Project Coordinates

### Condition & Report

**Status**

**Project Reliability**  
(Beach Condition)\*: **Red**



**Condition Notes:**  
+ View Color Legend

#### Damage Risk Assessments

Structures (homes, navig. Structures, etc.)	Environment/Habitat	Infrastructure	Critical Facilities	Evacuation Routes	Recreation
+++	++	+++	++	++	+++

**Notes:** Renourishment of constructed segments has been delayed beyond the six year renourishment cycle; The cumulative construction cost for the Sea Bright to Manasquan project has been pro-rated by reach.  
+ View Risk Assessment Legend

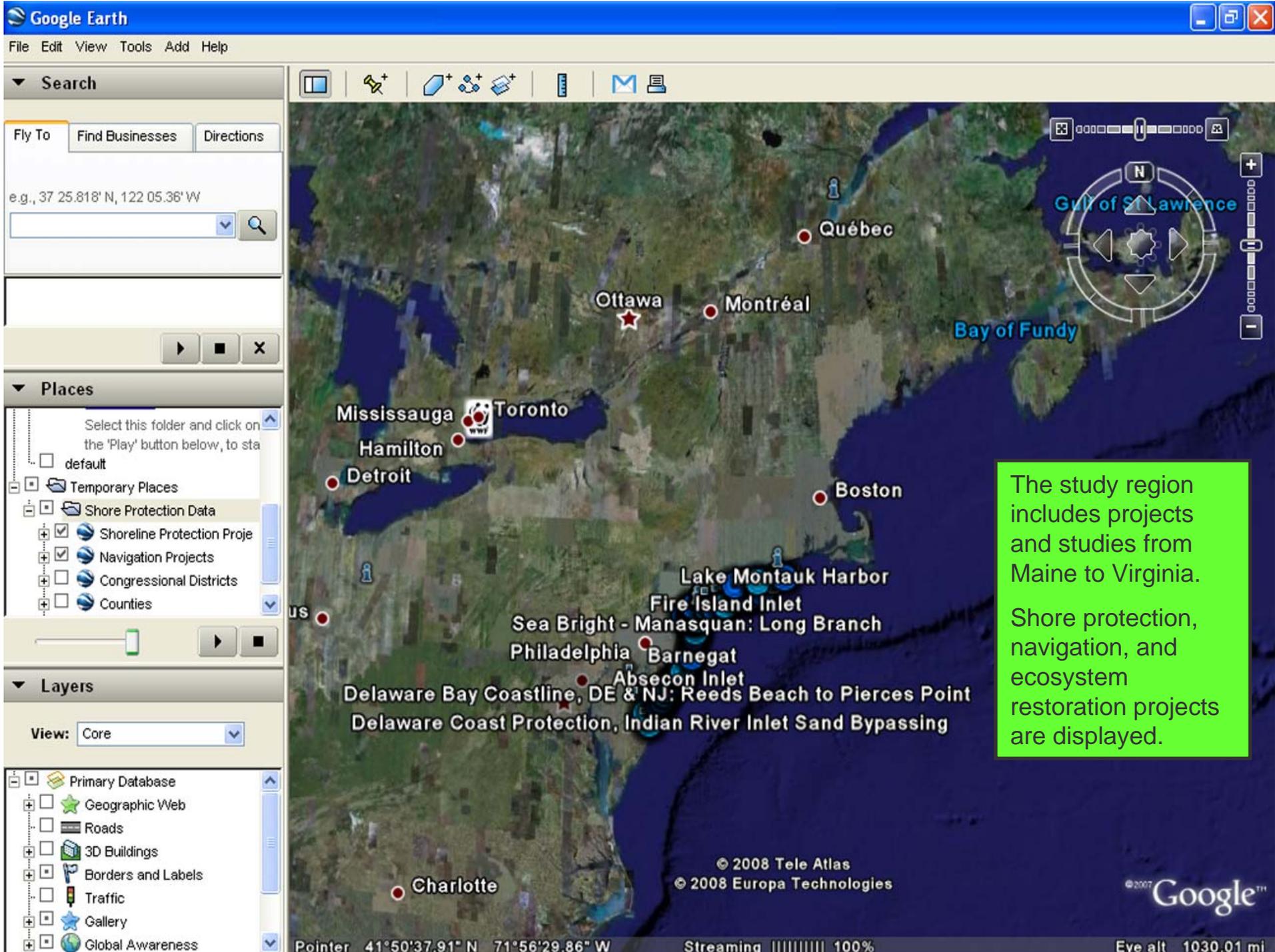
#### Project Details

Reconnaissance	Feasibility	Chief's Report	Authorized for Construction
	Jan-1989		1986/1988/1992

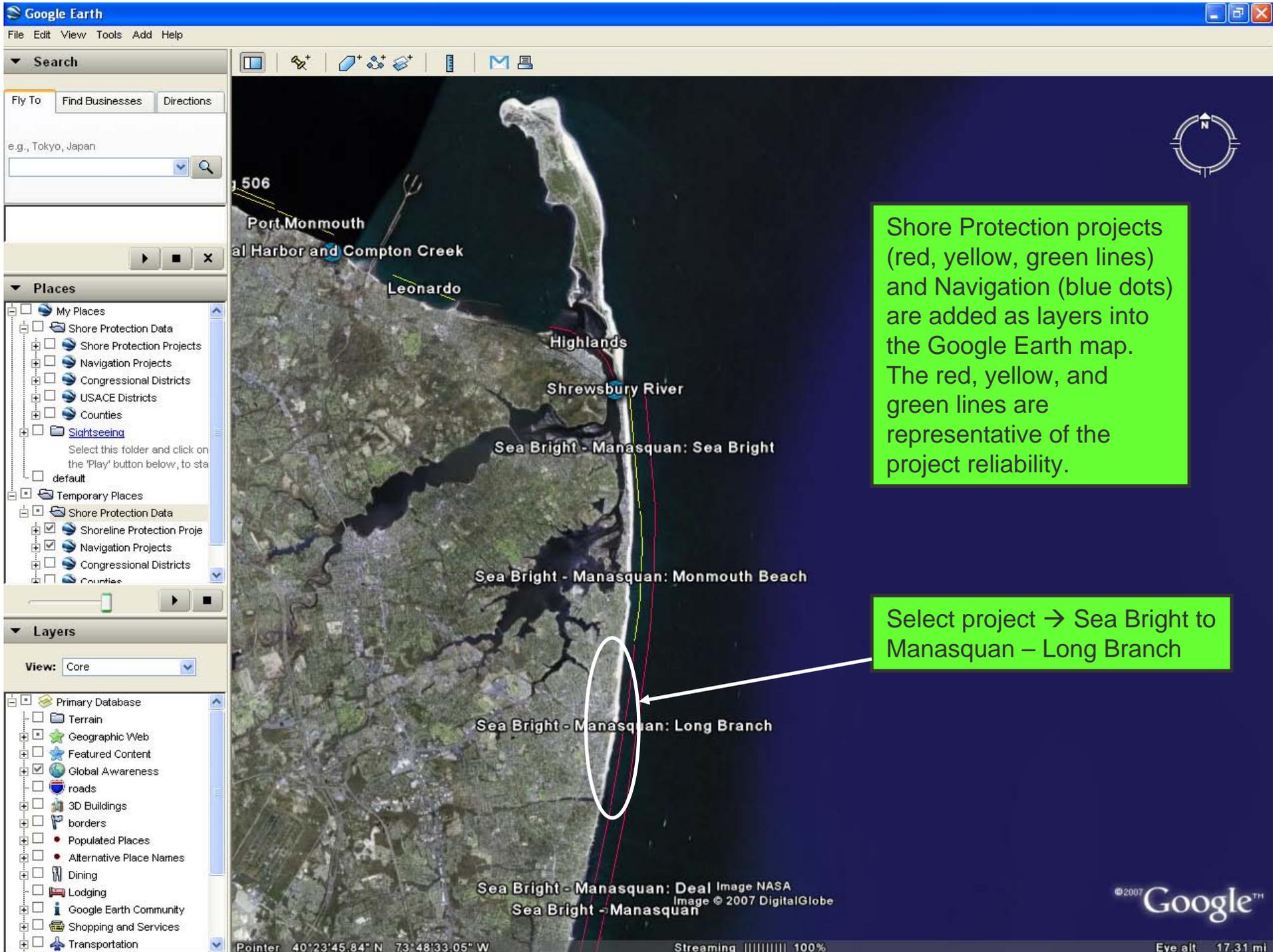
Initial Construction: Initial Construction:

The project information can also be viewed in a mapping environment.

Click to view the location map and project status in Google Earth.



The study region includes projects and studies from Maine to Virginia. Shore protection, navigation, and ecosystem restoration projects are displayed.



Shore Protection projects (red, yellow, green lines) and Navigation (blue dots) are added as layers into the Google Earth map. The red, yellow, and green lines are representative of the project reliability.

Select project → Sea Bright to Manasquan – Long Branch

Search

Fly To Find Businesses Directions

e.g., Tokyo, Japan

Places

- My Places
  - Shore Protection Data
    - Shore Protection Projects
    - Navigation Projects
    - Congressional Districts
    - USACE Districts
    - Counties
  - Sightseeing
  - default
- Temporary Places
  - Shore Protection Data
    - Shoreline Protection Proje
    - Navigation Projects
    - Congressional Districts
    - Counties

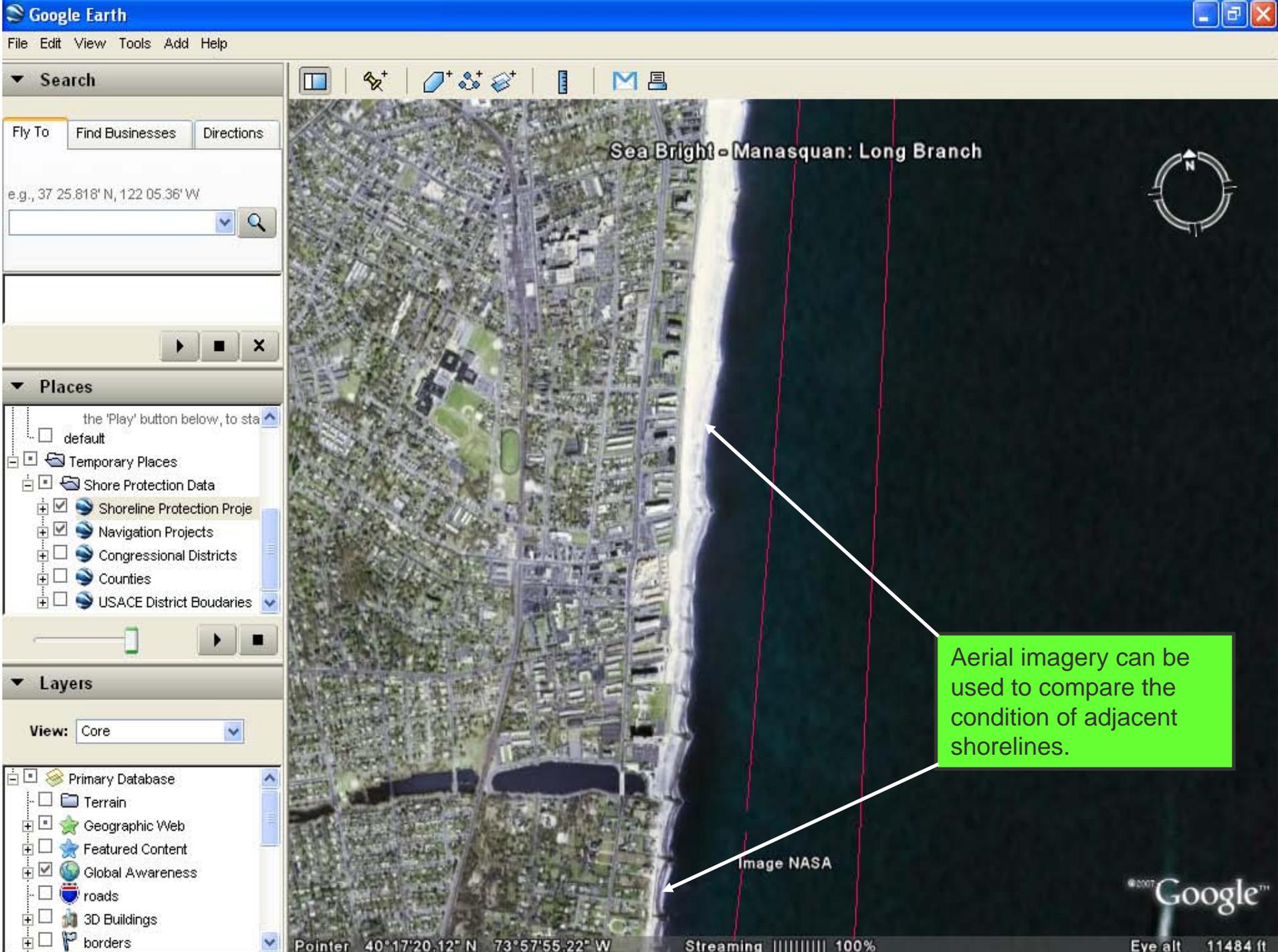
Layers

- View: Core
- Primary Database
    - Terrain
    - Geographic Web
    - Featured Content
    - Global Awareness
    - roads
    - 3D Buildings
    - borders
    - Populated Places
    - Alternative Place Names
    - Dining
    - Lodging
    - Google Earth Community
    - Shopping and Services
    - Transportation

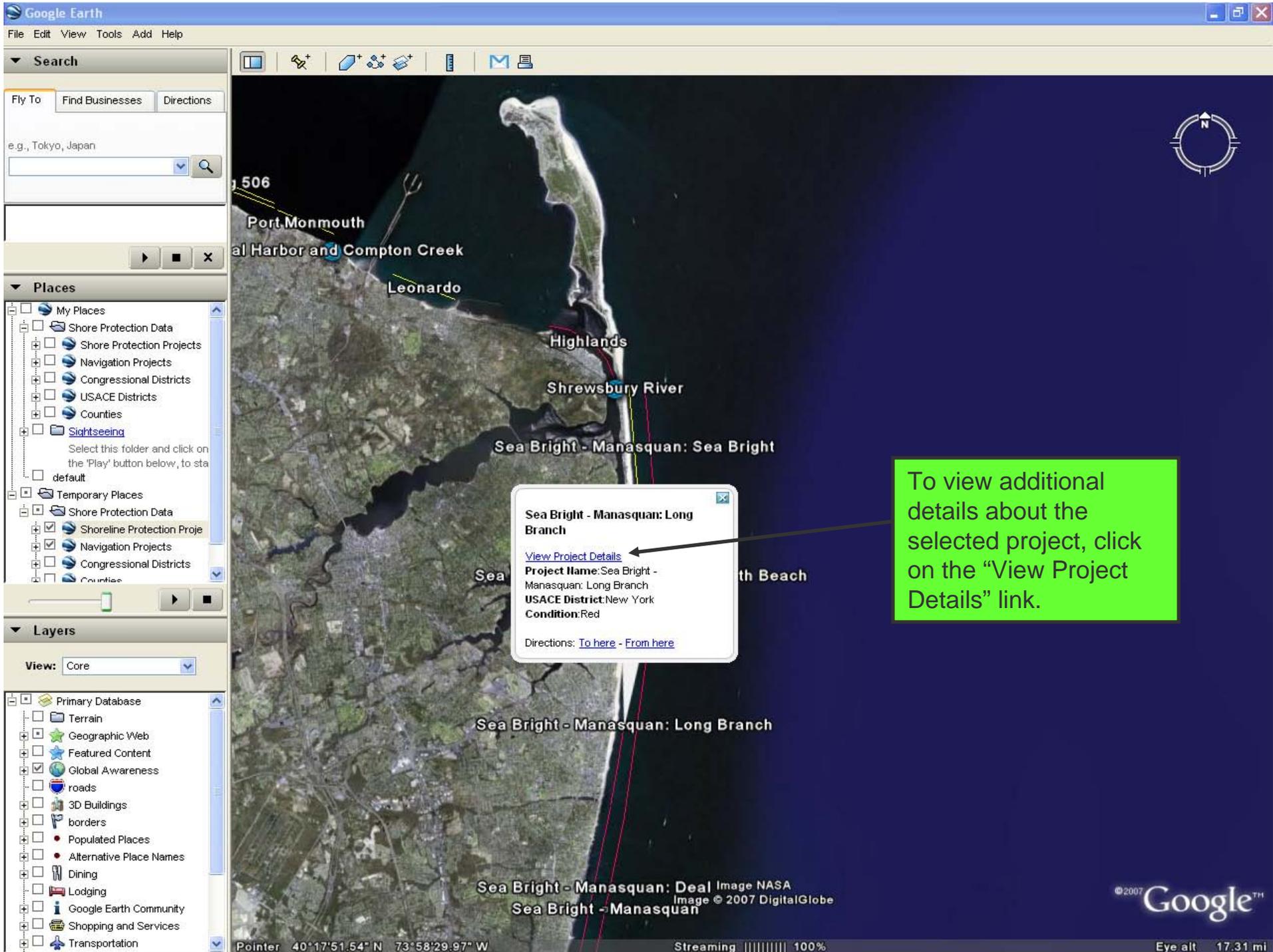
Pointer 40°23'45.84" N 73°48'33.05" W

Streaming 100%

Eye alt 17.31 mi



Aerial imagery can be used to compare the condition of adjacent shorelines.



Search  
Fly To Find Businesses Directions  
e.g., Tokyo, Japan

- Places
- My Places
    - Shore Protection Data
    - Shore Protection Projects
    - Navigation Projects
    - Congressional Districts
    - USACE Districts
    - Counties
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    - Alternative Place Names
    - Dining
    - Lodging
    - Google Earth Community
    - Shopping and Services
    - Transportation

Sea Bright - Manasquan: Long Branch

[View Project Details](#)

Project Name: Sea Bright - Manasquan: Long Branch  
USACE District: New York  
Condition: Red

Directions: [To here](#) - [From here](#)

To view additional details about the selected project, click on the "View Project Details" link.

Google Earth

File Edit View Tools Add Help

Search

Fly To Find Businesses Directions

e.g., Tokyo, Japan

Places

- My Places
  - Shore Protection Data
    - Shore Protection Projects
    - Navigation Projects
    - Congressional Districts
    - USACE Districts
    - Counties
  - Sightseeing
    - Select this folder and click on the 'Play' button below, to sta
  - default
- Temporary Places
  - Shore Protection Data
    - Shoreline Protection Proje
    - Navigation Projects
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View: Core

- Primary Database
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  - Google Earth Community
  - Shopping and Services
  - Transportation

Sea Bright - Manasquan: Long Branch

Sea Bright - Manasquan: Deal  
Sea Bright - Manasquan

Sea Bright - Manasquan: Asbury to Avon

The RSM Projects Website will open. Enter password (case sensitive) → SP1234

NAD RSM | Project Details (Login) - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://rsm.nad.usace.army.mil/projects/login.asp?p=22

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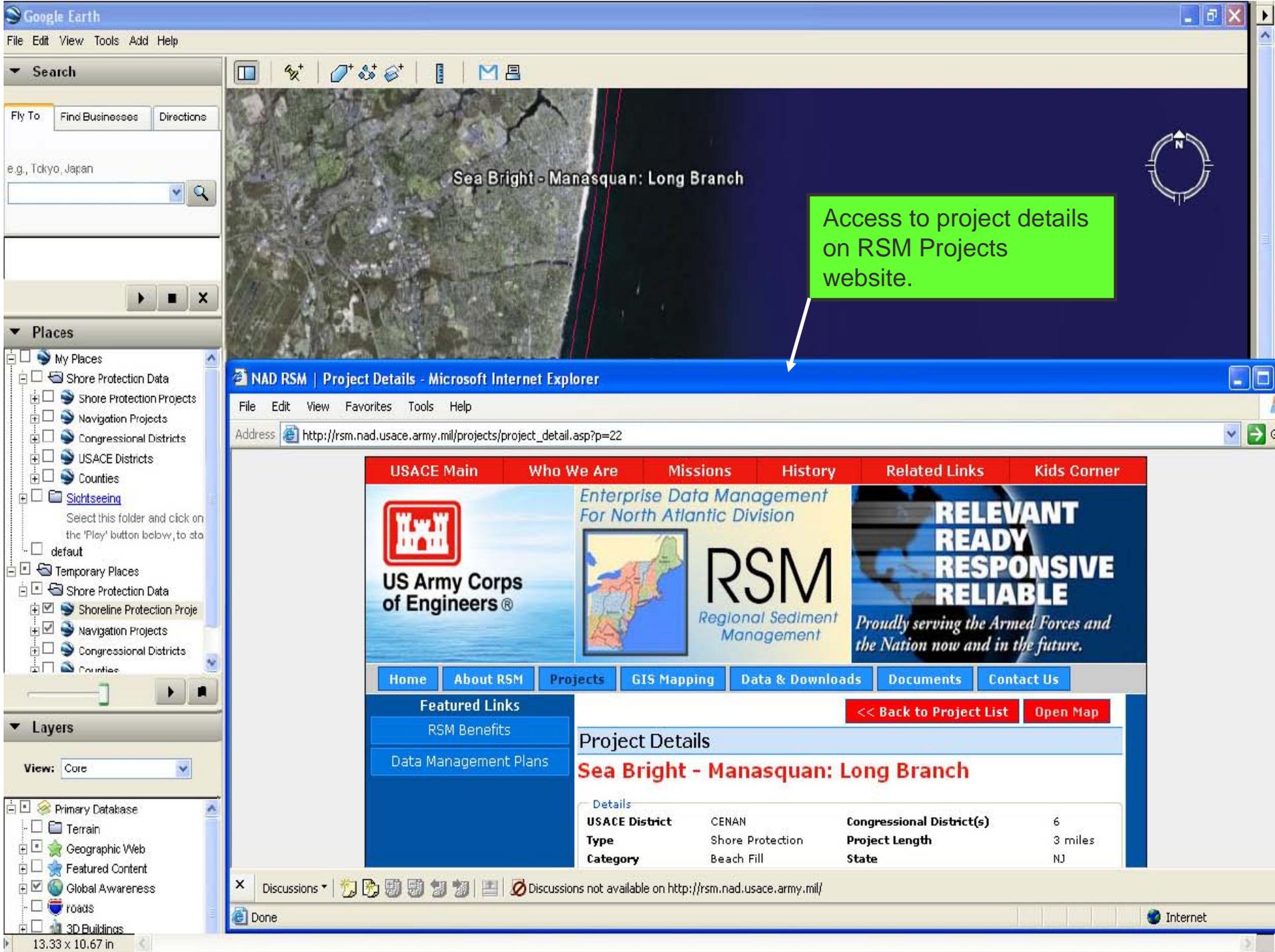
- RSM Benefits
- Data Management Plans

To view project details, you must **supply a password**. If you would like to request a password to view this data, please [Contact Us](#).

Password:

Login

US Army US Army Corps of Engineers North Atlantic Division NAD Webmaster RSM District Login



Access to project details on RSM Projects website.

Sea Bright - Manasquan: Long Branch

NAD RSM | Project Details - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address [http://rsm.nad.usace.army.mil/projects/project\\_detail.asp?p=22](http://rsm.nad.usace.army.mil/projects/project_detail.asp?p=22)

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### Project Details

## Sea Bright - Manasquan: Long Branch

Details

<b>USACE District</b>	CENAN	<b>Congressional District(s)</b>	6
<b>Type</b>	Shore Protection	<b>Project Length</b>	3 miles
<b>Category</b>	Beach Fill	<b>State</b>	NJ

Discussions Discussions not available on <http://rsm.nad.usace.army.mil/>

Done

Internet

13.33 x 10.67 in



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## Multi-agency Workshop



- Identify information needs, policy impediments and partnership opportunities that ***improve coordination and collaboration*** to meet shore protection project needs.
- Consolidate the knowledge, guidance, tools, and successes across the region in support of ***successful relationships***.
- Develop approaches to ***generate long term support*** for project implementation in the Mid-Atlantic region to provide for comprehensive coastal management.

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# Multi-agency Workshop

## SO WHAT's



- Held June 2008 at Monmouth University – Urban Coast Institute
- Included a ***broad spectrum of attendees*** representing different interests → USACE: NAN, NAP, NAB, NAO, NAD, SAM, IWR; NOAA; NYSDEC; NJDEP; DNREC; TNC; Sea Grant; Stevens Institute, Richard Stockton State University, etc.
- Outcomes and next steps will help support actions for change.
- Corps presented thoughts and was informed of how others fit into overall plans.
- Realized differing perspective from different levels of government.
- Issues with existing Corps' policies.
- Risk communication and hazard mitigation → multi-agency workgroup.

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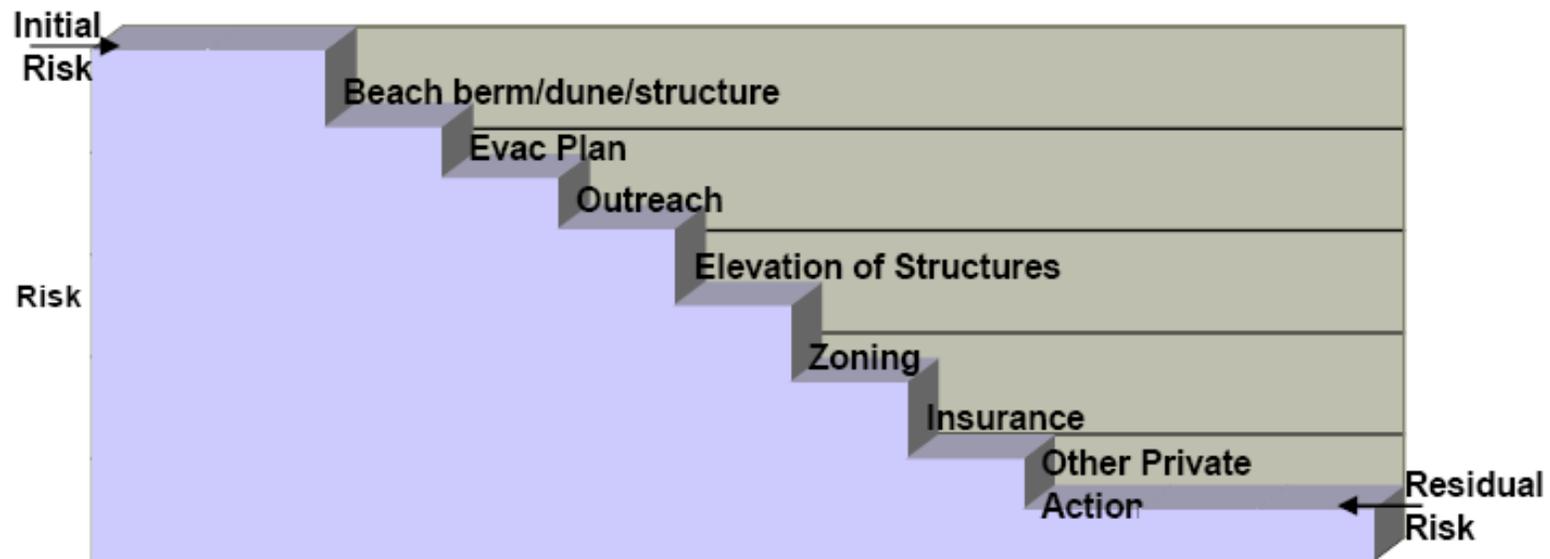


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# Next Steps



- Improve Risk Communication and understanding all interests' **roles and responsibilities** for hazard mitigation.



Source: Maj. Gen. Riley

- Communities need to assess resiliency and improving resiliency of a system.
- Develop sediment management plan to **reduce regional vulnerabilities** within a system to **optimize efficiencies** with regard to all coastal projects involving sediment.
- Expand upon the scope of the multi-agency workshop to develop the **institutional architecture** for a regional systems approach to coastal protection.

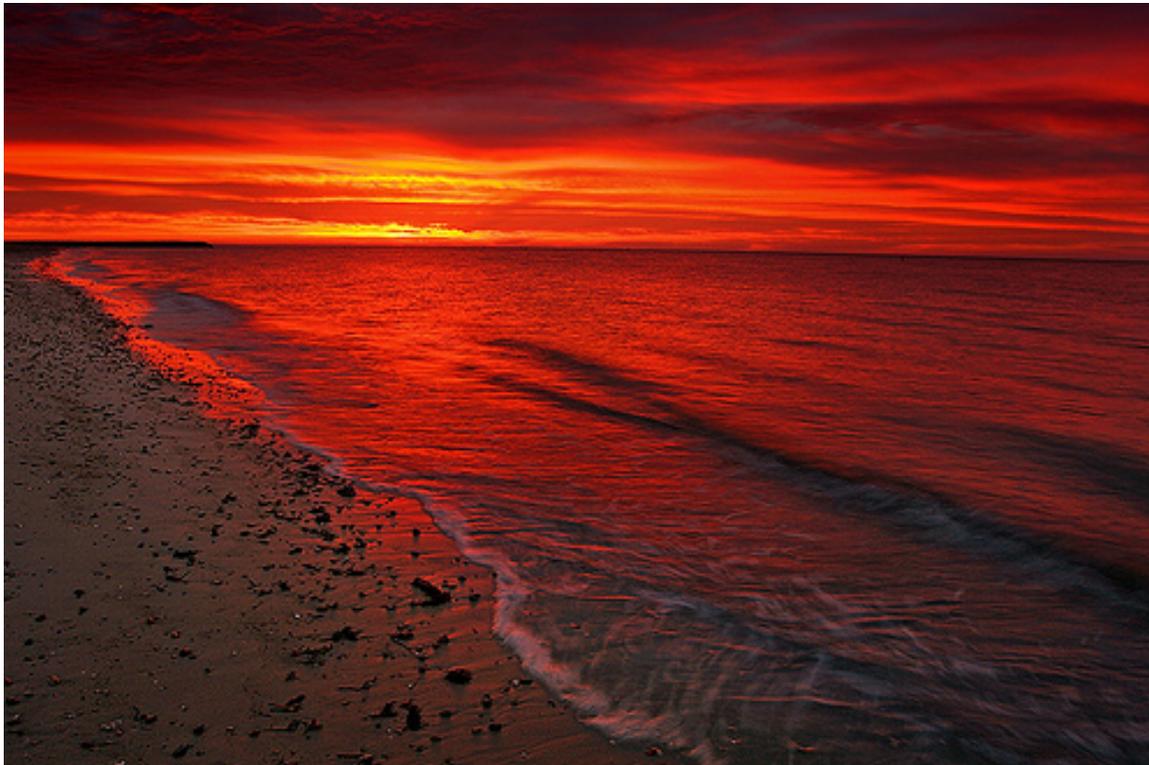
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# *Coastal Management...* *Going from Good to GREAT!!!*



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**Contact: Donald E. Cresitello  
Project Planner, Coastal Section**

**USACE New York District  
Planning Division  
Plan Formulation Branch**

**917-790-8608  
donald.e.cresitello@usace.army.mil**

**RSM Website**

**<http://rsm.nad.usace.army.mil/index.asp>**

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