

SLAMM-View

SLAMM-VIEW
developed by:

Image Matters LLC

A Breakthrough Visualization and Analysis Tool for SLAMM Data

“For nearly 20 years coastal change information provided by SLAMM was available only in tabular or static map form. SLAMM-View now provides this information in a visually dynamic way that more organizations and individuals are able to use.”

Leopoldo Miranda, Supervisor,
Chesapeake Bay Field Office,
U.S. Fish & Wildlife Service

Program Partners:

U.S. Fish & Wildlife Service

The National Wildlife
Federation

The Nature Conservancy

Image Matters LLC

Initial Support:

U.S. EPA

Indiana University



Core Functionality

User-Defined Area of Interest (AOI)

Comparative Side-By-Side Mapping

Summary Analysis and Reporting

Guided Workflow

SLAMM-View: Advancing Our Understanding of Sea-Level Rise Impacts on Coastal Wetlands

SLAMM-View Defined

SLAMM-View is a Web application that provides advanced tools for improving our understanding of the effects of sea-level rise as determined by the Sea-Level Affecting Marshes Model (SLAMM).

Version 2.0 of SLAMM-View was designed for a more user-friendly, workflow-based approach to assessing the impacts of sea-level rise (SLR) on the wetlands of coastal areas, with functions for visualization and analysis. SLAMM-View provides simultaneous comparison between current and future conditions out to the year 2100, and among different SLR scenarios (e.g., 0.4 meter vs. 1 meter), using interactive maps and tabular reporting capabilities.

SLAMM Defined

SLAMM simulates the dominant processes involved in wetland conversions and shoreline modifications during long-term SLR. Map distributions of wetlands are predicted under conditions of accelerated SLR, and results are summarized in tabular and graphical form. For more information about SLAMM, see:

<http://www.warrenpinnacle.com/prof/SLAMM/>

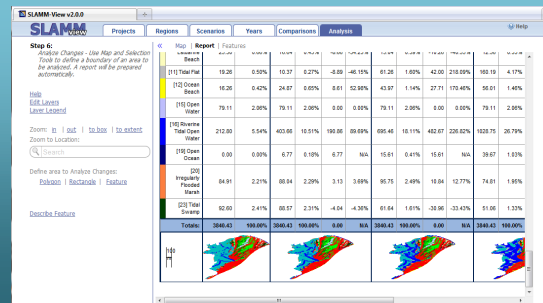
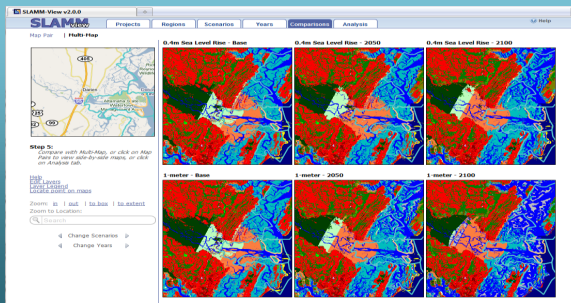
Coastal Areas Covered

As of Spring 2011, SLAMM-View makes accessible SLAMM visualization and analysis for several U.S. States; including:

- Alabama
- Delaware
- Georgia
- Maryland
- Mississippi
- New Jersey
- Oregon
- South Carolina
- Texas
- Virginia
- Washington

SLAMM-View can accommodate simultaneous SLAMM projects. Additional coverage is continually being added.

Serving the Government and Coastal Communities



“SLAMM-View continues to be a key tool used by coastal refuge managers to involve the public in discussions concerning sea-level rise as part of the Comprehensive Conservation Planning process.”

Lou Hinds, Chincoteague National Wildlife Refuge Manager, U.S. Fish & Wildlife Service

“SLAMM-View provides a number of benefits for our organization, including facilitating public outreach about sea-level rise impacts in refuge communities, aiding the design of habitat restoration efforts, and quantifying impacts around the refuges.”

Dr. Bill Wilen, Wetlands Biologist, U.S. Fish and Wildlife Service and Chair of the FGDC Wetlands Subcommittee

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SLAMM-View 2.0 – Key Features

SLAMM-View 2.0 is built upon the best innovations of the initial version, enhanced overall utility, and vastly improved user-friendliness by employing a guided workflow approach to facilitate and accelerate the path to a desired visualization and analysis result. In addition to the guided workflow, two other primary features were added:

1. Multi-Map view to provide the simultaneous comparison of SLAMM simulation results through time and between output from different scenarios
2. Analysis tools that provide a summary report with percent differential for each SLAMM metric. The report is both printable and downloadable in spreadsheet-compatible format (e.g., Excel)

SLAMM-View – SaaS in the Cloud

The SLAMM-View Portal (www.slammview.org), maintained by the Chesapeake Bay Field Office of the U.S. Fish & Wildlife Service (USFWS), is an outstanding example of cooperation between the Washington Office and a Field Office in managing a tool of national significance. The SLAMM application is the first and only USFWS application that operates in the "Cloud", utilizing the Amazon EC2 virtual computing environment.

To develop SLAMM-View rapidly – a prototype was delivered in only three days by leveraging Image Matters' *userSmarts* technology. *userSmarts* is an extensible Web-based Software-as-a-Service (SaaS) platform that adds geo-social intelligence to business environments. It is used for rapid development and deployment

of context-sensitive Web applications, with an extensible standards-based framework for efficient integration of distributed Web resources. Applications range from simple services to advanced Web dissemination and analysis systems with geospatial workflows.

About Image Matters

Founded in 2001, Image Matters LLC specializes in developing and applying geospatial and Web technologies for a wide variety of applications. Image Matters also offers a full range of complimentary professional services including systems and software engineering, interoperability engineering and standards, systems integration, geospatial and environmental consulting, data modeling, database development, and technology planning and execution. Image Matters is committed to providing the highest quality, most cost-effective solutions to our clients.

Our highly qualified staff combine our innovative technologies with a wealth of experience to solve our clients most challenging problems. Our staff has developed solutions ranging from the Wetlands Analytical Mapping System, the first operational GIS built for the federal government in 1976, to the cutting-edge, Cloud-based SLAMM-View application.

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