

# Tools to Enhance Community Resilience:

Collaborative Approaches to  
Planning through Technology

National Oceanic and Atmospheric Administration (NOAA)  
Coastal Services Center

**Coastal GeoTools 2009**



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# Tools to Enhance Community Resilience:

Collaborative Approaches to Planning through Technology

- Quick overview
- Tools Demonstrations
- Help Session
- Group Discussion



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## Resilience

*Ability to “bounce back”  
after events and adapt to  
future conditions*

Sustainable, well-prepared communities  
are more resilient.



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## Tools are designed to help communities . . .

- Identify critical linkages
- Understand how decisions impact the community

## Tools are developed and distributed through partnerships among . . .

- Federal agencies
- Nonprofit organizations
- Research institutions
- Other coastal end users



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# Today's Session

## **Suite of tools will be demonstrated:**

- Hazard Assessment Template (HAT)
- Habitat Priority Planner (HPP)
- Nonpoint Source Pollution and Erosion Comparison Tool (N-SPECT)
- CanVis Visualization Software



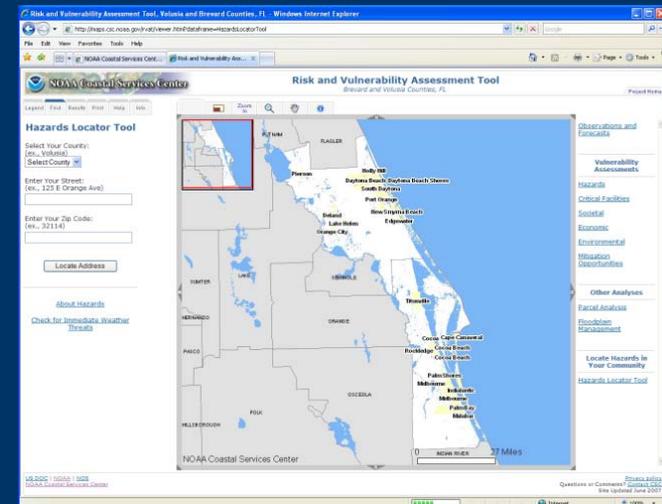
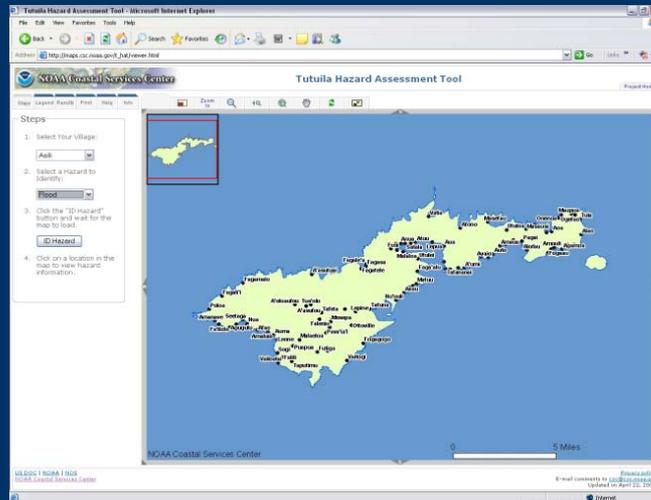
# Hazard Assessment Template (HAT) for Assessing Risk and Vulnerability



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# Hazard Assessment Template

- Template used to develop customized tools
- Internet mapping tools can identify potential hazards
- Hazard mitigation plans are brought into visual formats



# Habitat Priority Planner (HPP)



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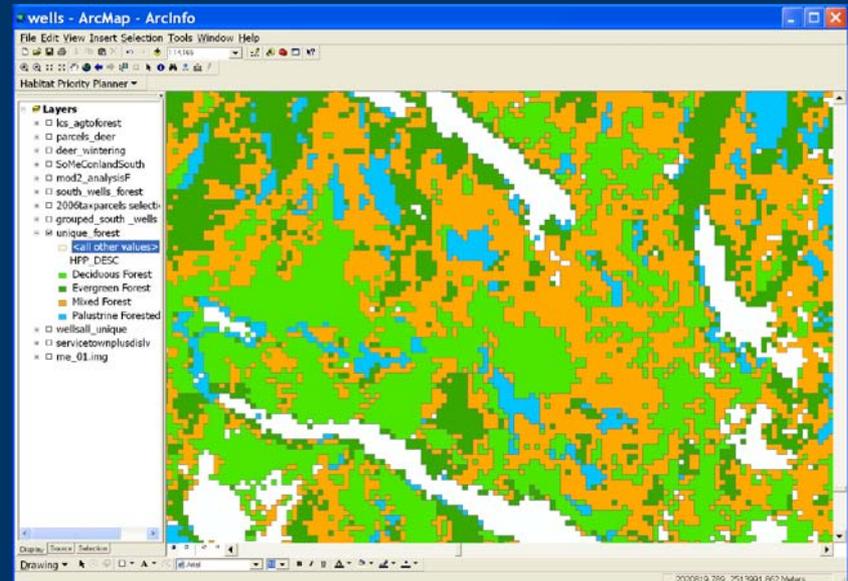
# Habitat Priority Planner

## Applications

- Conservation and restoration planning
- Land use planning
- Interactive decision-making

## Basic functions

- Classify habitat
- Habitat analysis
- Data exploration



# Nonpoint Source Pollution and Erosion Comparison Tool (N-SPECT)



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# The Nonpoint Source Pollution and Erosion Comparison Tool



- Geographic information system-based water quality screening tool
- Compares the effects of different land cover and land use scenarios on total yields
- Spatially distributed (raster-based) pollutant and sediment yield model



# CanVis Visualization Software



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# CanVis Visualization Software

## What Is It?

An entry-level program that allows resource professionals to create photo-realistic simulations with minimal computer skills

## Key Features

- Easy to learn
- Easy to use
- Fast



Simulation

# Demonstrations

- Hazard Assessment Template (HAT)
- Habitat Priority Planner (HPP)
- Nonpoint Source Pollution and Erosion Comparison Tool (N-SPECT)
- CanVis Visualization Software



# Discussion



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# DIGITAL COAST

[Home](#) [Data](#) [Tools](#) [Training](#) [In Action](#)



## About the Digital Coast

"More than just data," the Digital Coast is a network of diverse partners working together to address coastal issues. Website content is growing with contributions and guidance from the partner network and the user community.

- [Digital Coast Details](#)
- [About the Partners](#)
- [How to Use this Site](#)
- [Submitting Content](#)

## Data

Learn more about the kinds of data available and download data.

## Tools

Use these tools to turn data into useful information your organization needs.

## Training

Update your skills by participating in one of these training programs.

## Digital Coast In Action

See how data and tools are used to address coastal management issues.

## Digital Coast Data

Immediate access to data for the geographic region of your choice.

[Download Data](#)

## Digital Coast Website

This website provides data required by coastal resource management professionals, as well as the tools, training, and information needed to turn these data into useful information.



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# Thank You

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