



FEMA

**National
Planning
Center of
Expertise for
Coastal
Storm Damage
Reduction**



US Army Corps
of Engineers
North Atlantic Division

Planning to save lives in the future.

HURREVAC 2010

Hurrevac 2010 Training Course
National Hurricane Program

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COE Mobile District

Instructor

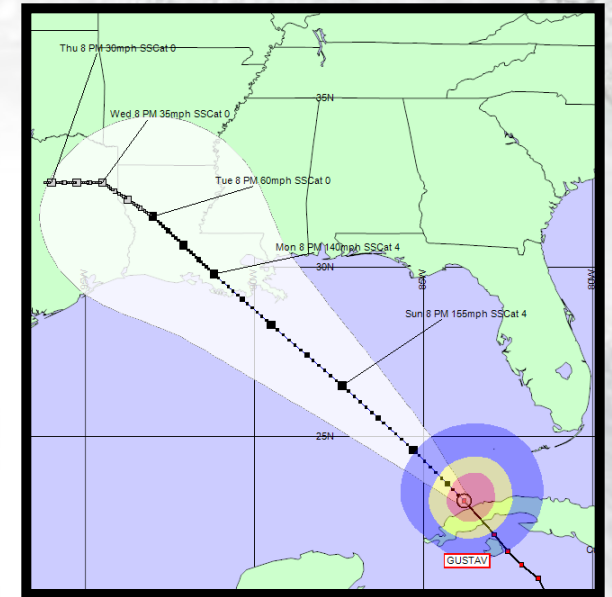
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Course Agenda

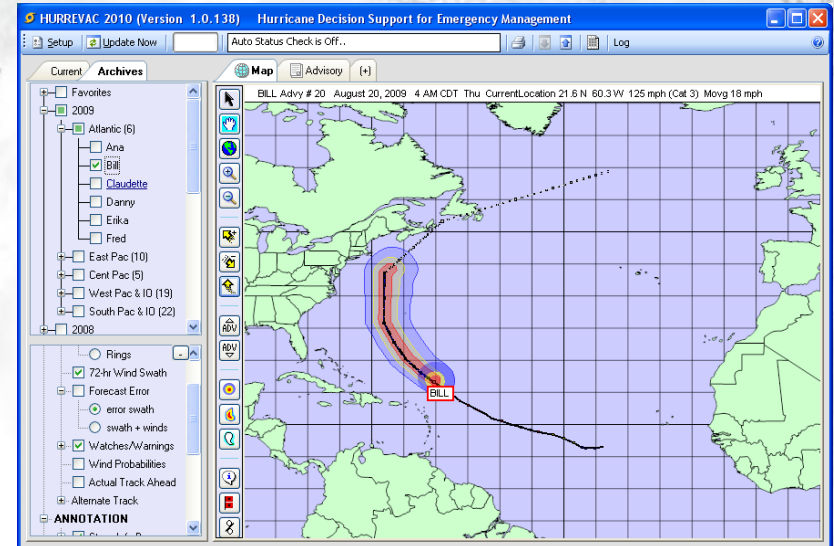
1. Introduction to Hurrevac
2. Registration & Install
3. Data Sources
4. Procedures for Decision Times
5. What's New in Hurrevac?
6. Exploring the Workspace



1. Introduction to HURREVAC?

Hurrevac is a hurricane tracking and evacuation decision tool for government emergency managers

- Product of the FEMA/USACE HES Program
- Restricted distribution to over 8000 users worldwide



Program History

- Hurrevac was started in 1987
- The program was developed by John Townsend
- Uses real-time data from the NHC and evacuation clearance times from FEMA/USACE HES's
- A major upgrade is currently underway (**Hurrevac2010**)



Program Administration

- **Hurrevac is provided free-of-charge to eligible users in government emergency management**
- **FEMA and USACE have funded the program over the years.**
- **Private contractor (Sea Island Software) is tasked with all software development, program maintenance, and user support.**



2. Program Registration and Installation

- **You must be involved with the Emergency management community to download and install HURREVAC**
- **As a Registered user you will receive email updates on program improvements and changes.**



Make sure you Register

Go To: www.hurrevac.com



A Storm Tracking and Decision Assistance Tool
for Government Emergency Managers

[Register](#) :: [Contact](#)

Click on register

- Home
- About HURREVAC
- Support Services
- Tech Documentation
- Hurricane Links

Welcome

HURREVAC is a computer program used by official government emergency managers since 1988 to track hurricanes and assist in decision-making for their communities.

This web site is maintained by Sea Island Software, Inc., the programmer, to enhance the support services for this program for valid EM users. We provide a number of resources to assist with both the use of HURREVAC and with emergency management issues as they relate to hurricanes.



Updates

» [May 14, 2009](#)
The 2009 Season Version of HURREVAC will be released next Monday. Registered users will receive e-mailed instructions.

» [Hurrevac2010](#)
A major upgrade of Hurrevac is underway. Check the [What's New page](#) for a look at our current progress.

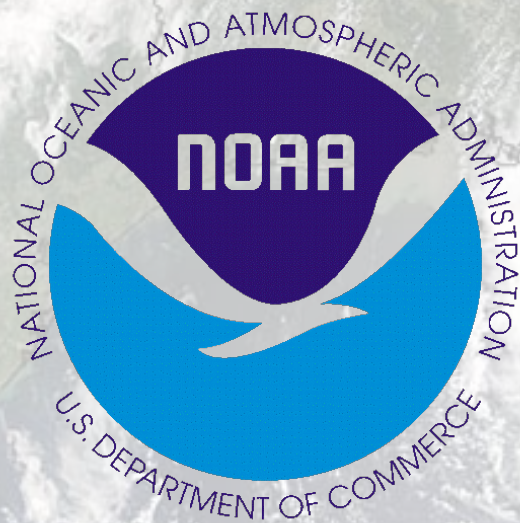
A GIS-Based Storm

Installing Hurrevac

- **Computer hardware requirements for Hurrevac2010 are minimal—Windows95 or higher, and a VGA screen resolution (600x800)**
- **Hurrevac is a stand-alone program that doesn't require any third-party software**
- **The main installation file is 12Mbs in size**



3. What Data Sources Does Hurrevac Use? ???



Data from Official Federal Government Agencies



The National Hurricane Center's **HURRICANE ADVISORIES**

- **Forecast advisory packages are issued every six hours when storm is being tracked**
- **2 or 3-hourly intermediate advisories are issued when the storm is near land**

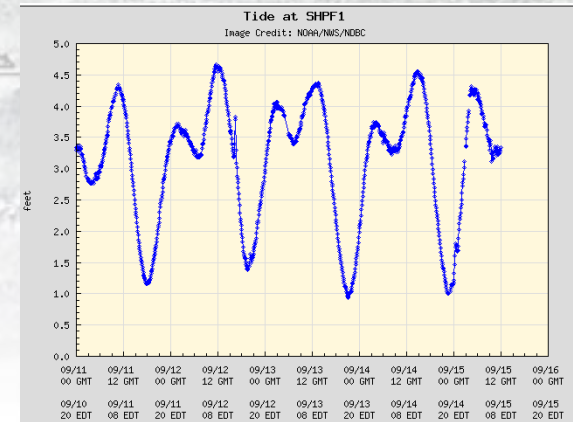
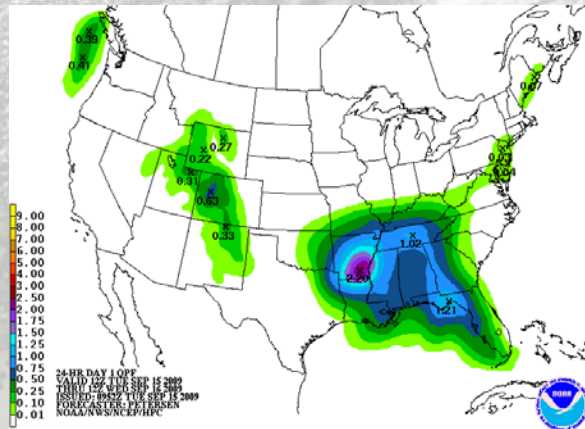
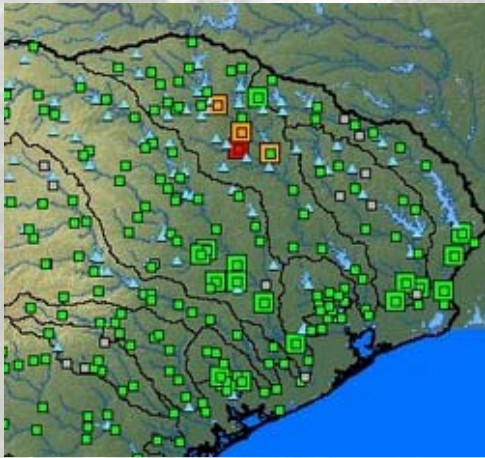


National Hurricane Centers

- The National Hurricane Center in **Miami**
- The Central Pacific Hurricane Center (CPHC) at the NWS Forecast Office in **Honolulu**..and
- JTWC on the Naval Base at **Pearl Harbor**.



Other Hurrevac DATA Sources

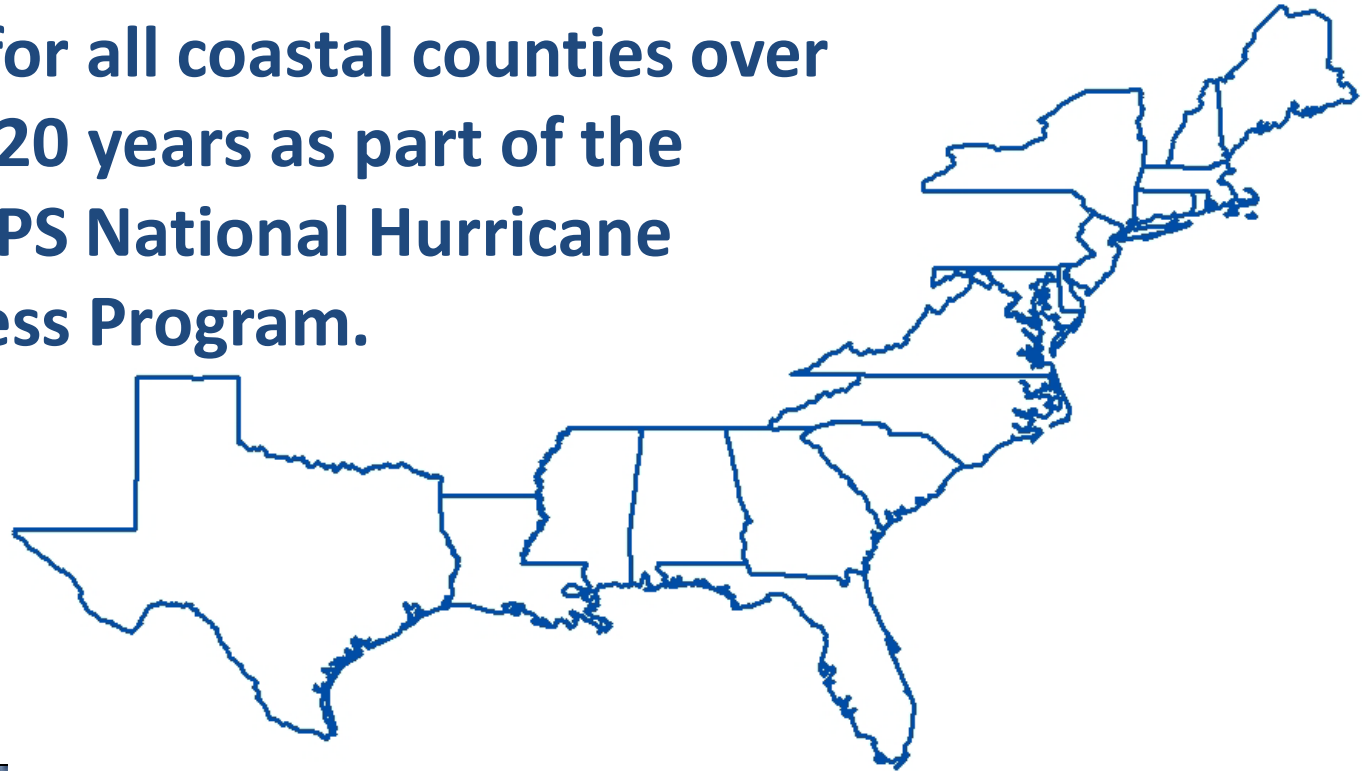


- River Forecast Centers – river gages & floods
- Hydro-Meteorological Prediction Center – rainfall and 3-day quantitative precipitation
- NOAA – tide gages



DATA FROM FEMA & CORPS

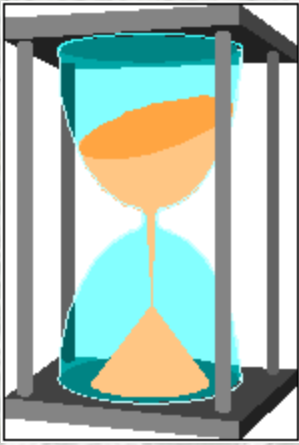
Evacuation Clearance times have been calculated for all coastal counties over the last 15-20 years as part of the FEMA/CORPS National Hurricane Preparedness Program.



NHP Study Components

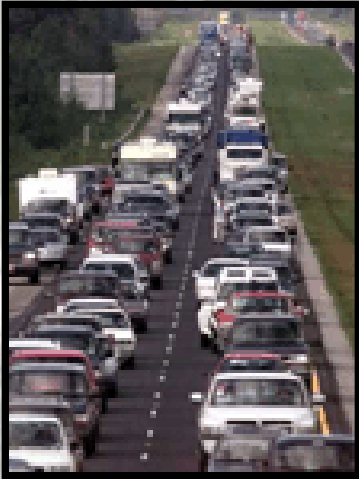
- 1. Hazards Analysis**
- 2. Vulnerability Analysis**
- 3. Behavioral Analysis**
- 4. Shelter Analysis**
- 5. Transportation Analysis**



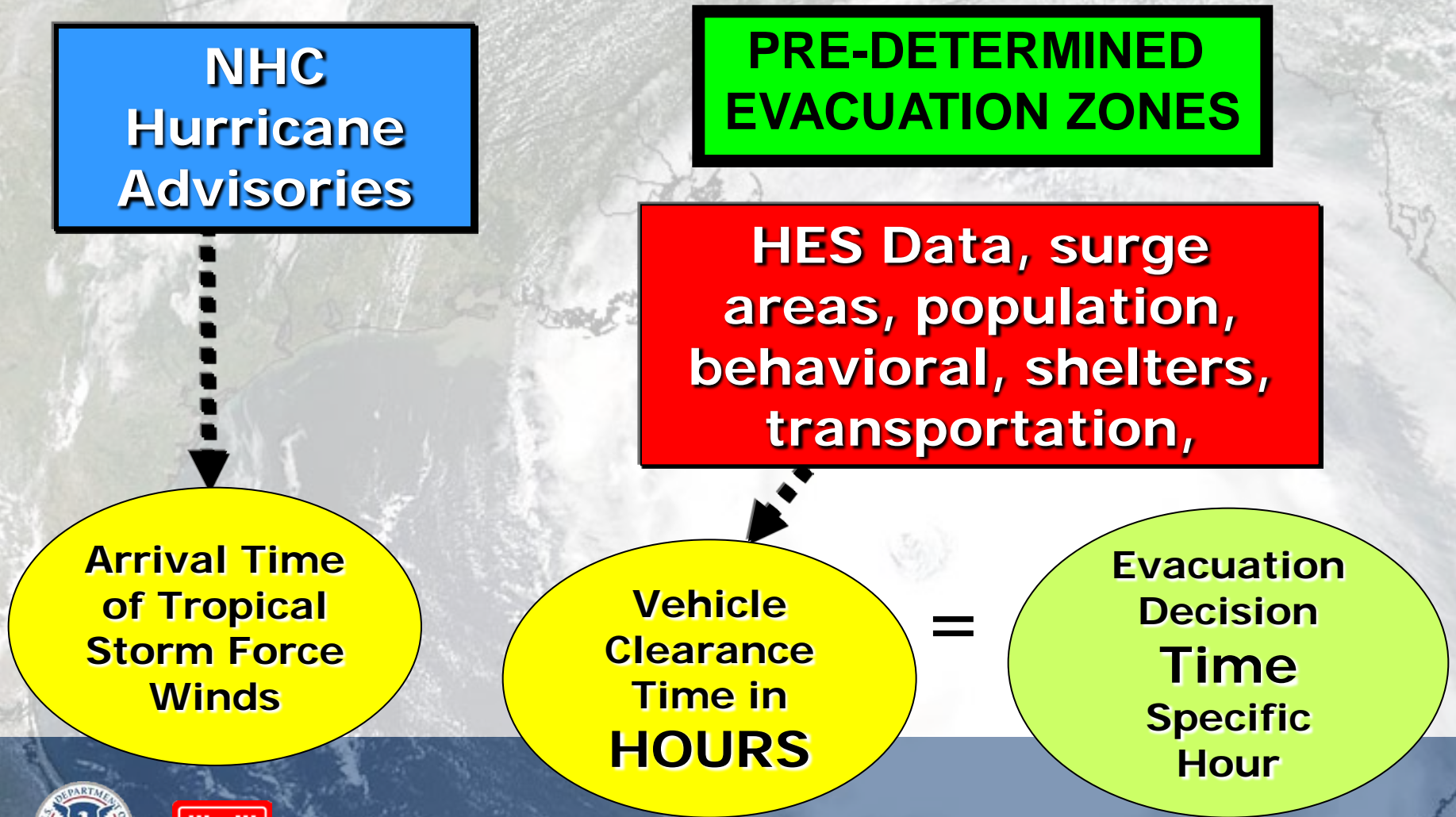


Clearance Times

A range of clearance times are estimated for various scenarios developed by the State and Counties and downloaded into Hurrevac to help Emergency Managers make evacuation decisions.



4. Hurrevac Procedures for Decision Times



5. What's New in Hurrevac 2010?

- Hurrevac Version in window title.
- Time zone set by your laptop.
- Automatic download of new forecast data.
- Tree-view style program management.
(No menu at top).
- Tab format to view map, text, and reports.
- Improved resolution on map.
- Improved graphics with transparency.
- State specific data is easier to install.



6. Exploring the NEW Workspace

HURREVAC 2010 (Version 1.0.165) Hurricane Decision Support for Emergency Management

The screenshot displays the HURREVAC 2010 software interface. At the top, a blue title bar contains the text "HURREVAC 2010 (Version 1.0.165) Hurricane Decision Support for Emergency Management". Below the title bar, there are tabs for "Current" and "Archives". The main interface is divided into several sections:

- Left Panel:** A tree view showing geographical regions: Atlantic, East Pac, Cent Pac (1), West Pac & IO (2), and South Pac & IO. Below these are layers for Rain, Rivers, and Tide Gages. A second section contains "STORM FEATURES", "ANNOTATION", "REPORTS", "BROWSERS", and "UTILITIES".
- Map Area:** A map of the United States and surrounding regions, including the Caribbean and Mexico. The map is overlaid with a grid.
- Map Tools:** A vertical toolbar on the left side of the map contains icons for navigation (arrow, hand, globe), zooming (plus and minus magnifying glasses), and other map functions.
- Top Panel:** Tabs for "Map", "Advisory", and "Outlook" are visible. A red arrow points from a text box to the "Map" tab.

A red text box with a black border is positioned over the "Map" tab, containing the text "TITLE BAR" and "Version Number".

6. Exploring the NEW Workspace

The screenshot displays a software interface with a top function bar highlighted in red. The bar contains several icons and a text field: a document icon labeled 'Setup', a green refresh icon labeled 'Update Now', a white text box containing 'Auto Status Check is Off..', a printer icon, a download icon, an upload icon, a calendar icon, and a 'Log' button. Below the bar is a map workspace with a green landmass and blue ocean. A red arrow points from the text 'TOP FUNCTION BAR also called "Monitoring Ribbon"' to the top function bar. A black box with white text is overlaid on the map, stating 'contains a number of buttons to help manage the program.' The left sidebar shows a tree view with categories like 'Atlantic', 'East Pac', 'Cent Pac (1)', 'West Pac & IO (2)', 'South Pac & IO', 'Rain', 'Rivers', and 'Tide Gages'. Below this are sections for 'STORM FEATURES', 'ANNOTATION', 'REPORTS', 'BROWSERS', and 'UTILITIES'. A vertical toolbar on the right side of the map contains various navigation and tool icons, including a mouse cursor, a hand, a globe, zoom in/out, and two 'ADV' buttons with up/down arrows.

Setup Update Now Auto Status Check is Off.. Log

TOP FUNCTION BAR
also called
"Monitoring Ribbon"

contains a number of buttons
to help manage the program.

Atlantic
East Pac
Cent Pac (1)
West Pac & IO (2)
South Pac & IO
Rain
Rivers
Tide Gages

STORM FEATURES
ANNOTATION
REPORTS
BROWSERS
UTILITIES

6. Exploring the NEW Workspace

The screenshot displays the HURREVAC 2010 (Version 1.0.165) interface, titled "Hurricane Decision Support for Emergency Management". The top navigation bar includes "Current" and "Archives" tabs, and a secondary bar contains "Map", "Advisory", and "Outlook" buttons. On the left, a tree view lists geographical regions (Atlantic, East Pac, Cent Pac (1), West Pac & IO (2), South Pac & IO) and data types (Rain, Rivers, Tide Gages). Below this, a "STORM FEATURES" section lists "ANNOTATION", "REPORTS", "BROWSERS", and "UTILITIES". The main area shows a map of the United States with a red-bordered "DATA DISPLAY WINDOW" overlaid. This window contains a map of the Eastern US and a text box with the text "Maps, Text and Reports/Tables". The interface also features a status bar with "Auto Status Check is Off..", a "Log" button, and a vertical toolbar with navigation icons.

6. Exploring the NEW Workspace

HURREVAC 2010 (Version 1.0.165) Hurricane Decision Support for Emergency Management

Auto Status Check is Off...

Map Advisory Outlook (+)

allows you to select what you would like to see in the in the Map Tab

DATA TREE FOR MAP

The screenshot displays the HURREVAC 2010 software interface. The title bar reads "HURREVAC 2010 (Version 1.0.165) Hurricane Decision Support for Emergency Management". Below the title bar, there are several tabs: "Current" and "Archives". The "Current" tab is active, showing a data tree structure. The tree is organized into several categories, each with a plus sign icon to its left, indicating it can be expanded or collapsed. The categories are: Atlantic, East Pac, Cent Pac (1), West Pac & IO (2), South Pac & IO, Rain, Rivers, and Tide Gages. Below this tree, there are several other categories: STORM FEATURES, ANNOTATION, REPORTS, BROWSERS, and UTILITIES. A red box highlights the "Current" tab and the data tree. A red arrow points from the text "DATA TREE FOR MAP" to the tree. A black box with white text is overlaid on the map area, stating "allows you to select what you would like to see in the in the Map Tab". The map itself shows a geographical view of the United States and surrounding regions, with a grid overlay. The interface also includes a toolbar with various icons for map navigation and a status bar at the bottom.

6. Exploring the NEW Workspace

HURREVAC 2010 (Version 1.0.165) Hurricane Decision Support for Emergency Management

Setup Update Now Auto Status Check is Off.. Log

Current Archives Map Advisory Outlook (+)

- Atlantic
- East Pac
- + Cent Pac (1)
- + West Pac & IO (2)
- South Pac & IO
- + Rain
- + Rivers
- + Tide Gages

allows you to customize map features, select reports or tables, use browsers and other utilities.

- + STORM FEATURES
- + ANNOTATION
- + REPORTS
- + BROWSERS
- + UTILITIES

FUNCTIONS TREE

ADV ADV

6. Exploring the NEW Workspace

The screenshot displays the HURREVAC 2010 software interface. At the top, the title bar reads "HURREVAC 2010 (Version 1.0.165) Hurricane Decision Support for Emergency Management". Below the title bar is a menu bar with options: Setup, Update Now, Auto Status Check is Off., and Log. A secondary menu bar contains tabs for Current, Archives, Map, Advisory, and Outlook. On the left side, there is a tree view with categories: Atlantic, East Pac, Cent Pac (1), West Pac & IO (2), South Pac & IO, Rain, Rivers, and Tide Gages. Below this is a section for STORM FEATURES, ANNOTATION, REPORTS, BROWERS, and UTILITIES. The main area shows a map of the United States and the Caribbean. A vertical toolbar on the left side of the map is highlighted with a red border and contains icons for: a mouse cursor, a hand (pan), a globe (refresh), a magnifying glass with a plus sign (zoom in), a magnifying glass with a minus sign (zoom out), a hand with a plus sign (pan and zoom), a hand with a minus sign (pan and zoom), and two ADV buttons. A red arrow points from the text "MAP TOOLS" to the toolbar.

HURREVAC 2010 (Version 1.0.165) Hurricane Decision Support for Emergency Management

Setup Update Now Auto Status Check is Off.. Log

Current Archives Map Advisory Outlook (+)

Atlantic
East Pac
Cent Pac (1)
West Pac & IO (2)
South Pac & IO
Rain
Rivers
Tide Gages

STORM FEATURES
ANNOTATION
REPORTS
BROWERS
UTILITIES

MAP TOOLS

Allows you to zoom in and out and pan as well as change the way your storm features appear on the map.

6. Exploring the NEW Workspace

The screenshot displays the HURREVAC 2010 software interface. At the top, the title bar reads "HURREVAC 2010 (Version 1.0.165) Hurricane Decision Support for Emergency Management". Below the title bar, there is a navigation area with tabs for "Current" and "Archives". A red box highlights a set of view tabs: "Map", "Advisory", "Outlook", and a "+" icon. A red arrow points from a white box labeled "VIEW TABS" to the "Map" tab. A text box at the bottom right explains that these view tabs allow users to save and quickly view reports, tables, or graphics.

HURREVAC 2010 (Version 1.0.165) Hurricane Decision Support for Emergency Management

Auto Status Check is Off

Current Archives

Map Advisory Outlook (+)

VIEW TABS

the view tabs allow you to save a variety of reports, tables or graphics so they can be quickly viewed by clicking on a tab.

- East Pac
- Cent Pac (1)
- West Pac & IO (2)
- South Pac & IO
- Rain
- Rivers
- Tide Gages
- STORM FEATURES
- ANNOTATION
- REPORTS
- BROWSERS
- UTILITIES

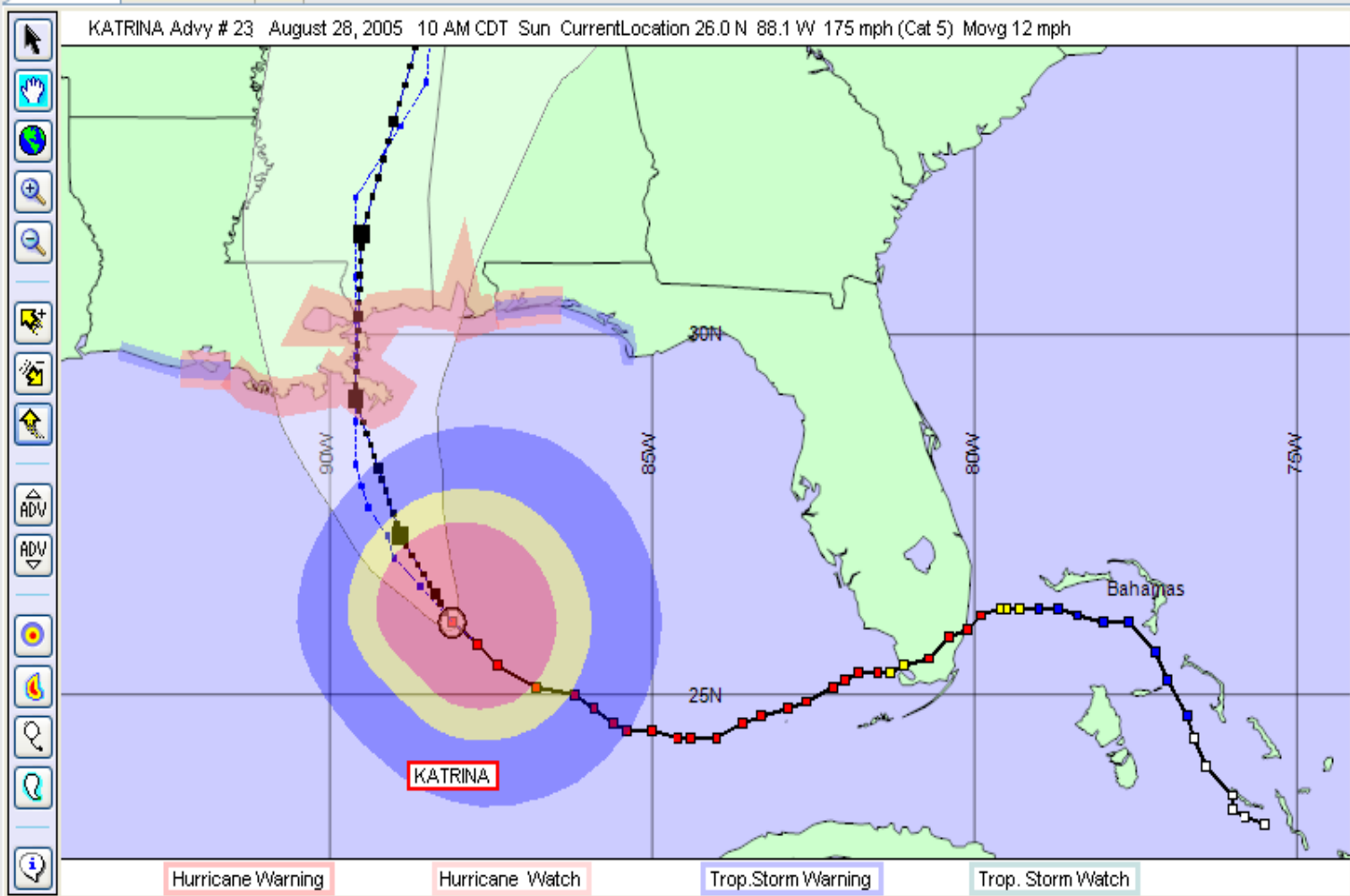
Current Archives

Map Advisory (+)

KATRINA Advy # 23 August 28, 2005 10 AM CDT Sun CurrentLocation 26.0 N 88.1 W 175 mph (Cat 5) Movg 12 mph

- Gert
- Harvey
- Irene
- Jose
- Katrina
- Lee
- Maria
- Nate
- Ophelia
- Philippe
- Rita
- Stan
- Tammy

- STORM FEATURES**
- ANNOTATION**
- Storm Info Box
 - Advisory Labels
 - Custom Annotation
 - Wind Tags
 - Range Marks
 - Disclaimers
- REPORTS**
- BROWSERS**



User Support Services

1. Support documentation at http://www.hurrevac.com/tech_win.htm
2. Submit support questions at <http://www.hurrevac.com/support.htm>
3. E-mail Support@hurrevac.com
4. Call the Sea Island Software support line at (843)881- 0593



The End

Questions and Answers

Please give us your feedback on
today's training:

