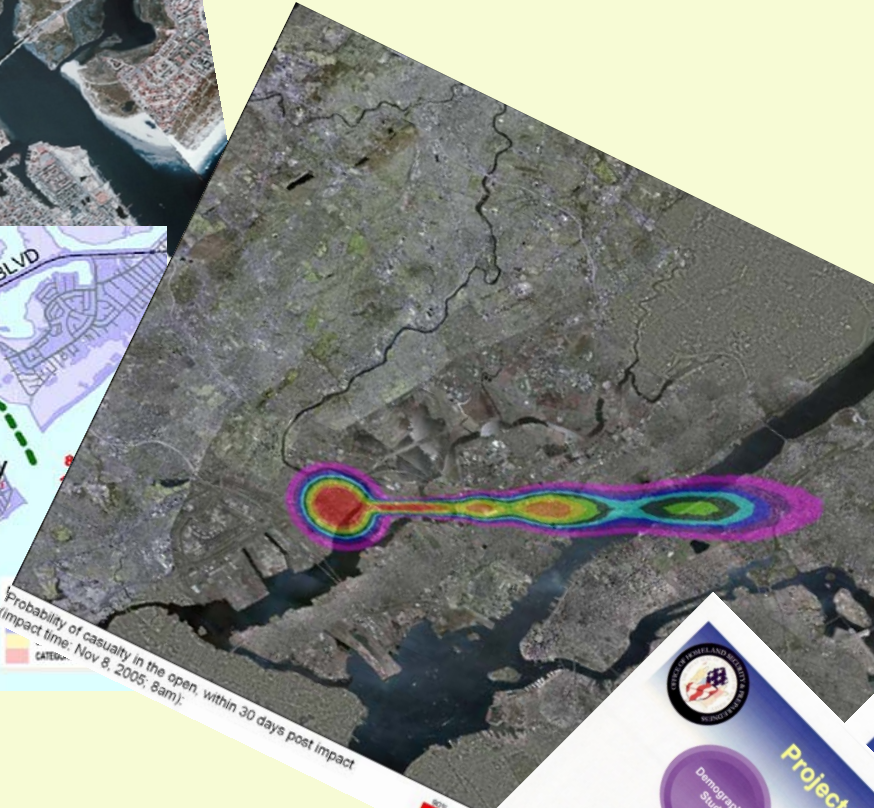


# Readying New Jersey for Catastrophic Events



Probability of casualty in the open, within 30 days post impact (impact time: Nov 8, 2005; 8am).  
CATEGORIES: 1 (red), 2 (orange), 3 (yellow), 4 (green), 5 (blue)

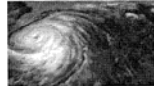
**NEW JERSEY CABINET LEVEL HURRICANE PREPAREDNESS TABLETOP EXERCISE "HURRICANE ADAM"**

**MODULE # 1**


*The Hurricane Declared - Preparedness*

**5 DAYS BEFORE LANDFALL**

August 24th, 2007: Tropical Storm ADAM has developed into a full blown Category 4 hurricane. Current heading is north / northwest at 16 mph. Location is approximately 212 miles southeast of Jamaica.



NOAA is tracking this storm and based on current barometric readings, wind speeds, ocean currents & temperatures, it is expected to continue on a north-northwesterly path, probably changing speed and direction when it nears Florida.



**FOR OFFICIAL USE ONLY**

Joseph Picciano, Deputy Director of Preparedness, NJ Office of Homeland Security and Preparedness



**Special Needs Registry**

**Presentation to New Jersey SNAP and FEMA Region II**

Office of Homeland Security & Preparedness

June 27, 2007






# Preparedness

## What's driving New Jersey's preparedness efforts?

- An aggressive Office of Emergency Management
- The need to prepare and respond at levels not seen in our State
- The need to regionalize our planning
- Support to local emergency management organizations
- The recognition that planning for basic local emergencies is a priority and the foundation of state and county planning for larger catastrophic events

# The Catastrophic Hurricane

## Impacts to your community: coastal and inland What should we expect?

- It could happen
- It has happened
  - Long Island in 1938
- We have a good idea of what the damage would be
  - Flood Insurance maps
  - Surge models



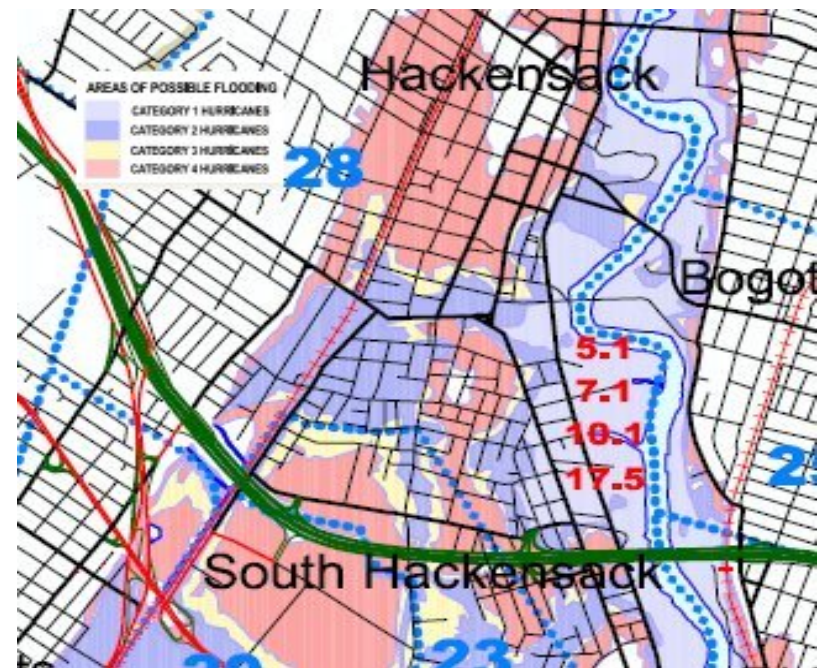


# A view from above

- The following represents the impact of a storm surge from a CAT 2/3 hurricane along the coast and up the Hudson River
- Similar damage would occur for the same storm through the Delaware Bay

# Hackensack - Bergen County

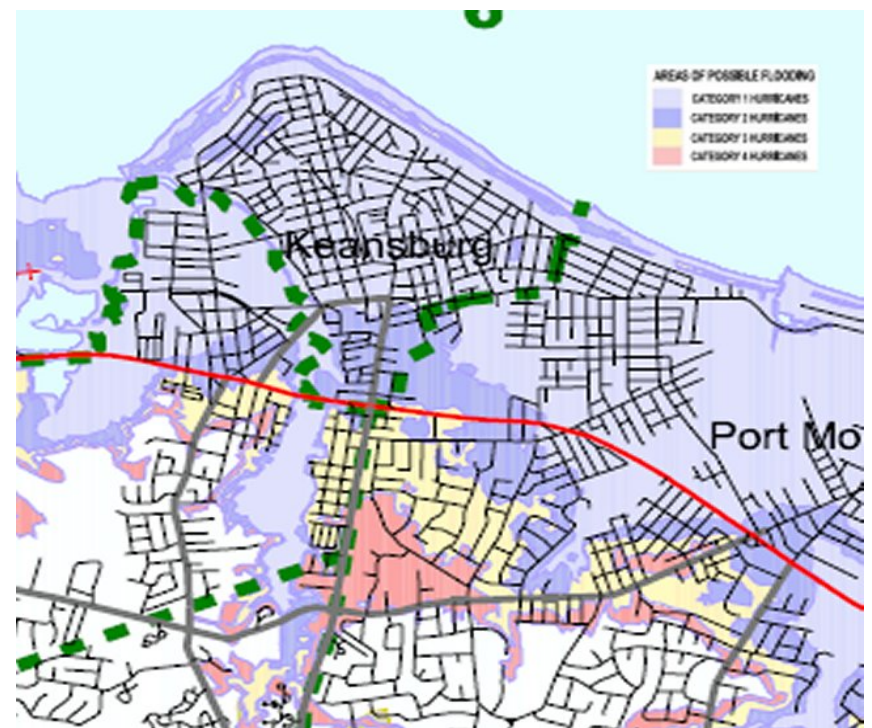
## *Established Urban Areas*



- All the blue areas could be impacted by storm surge from a Category 2 hurricane

# Keansburg - Monmouth County

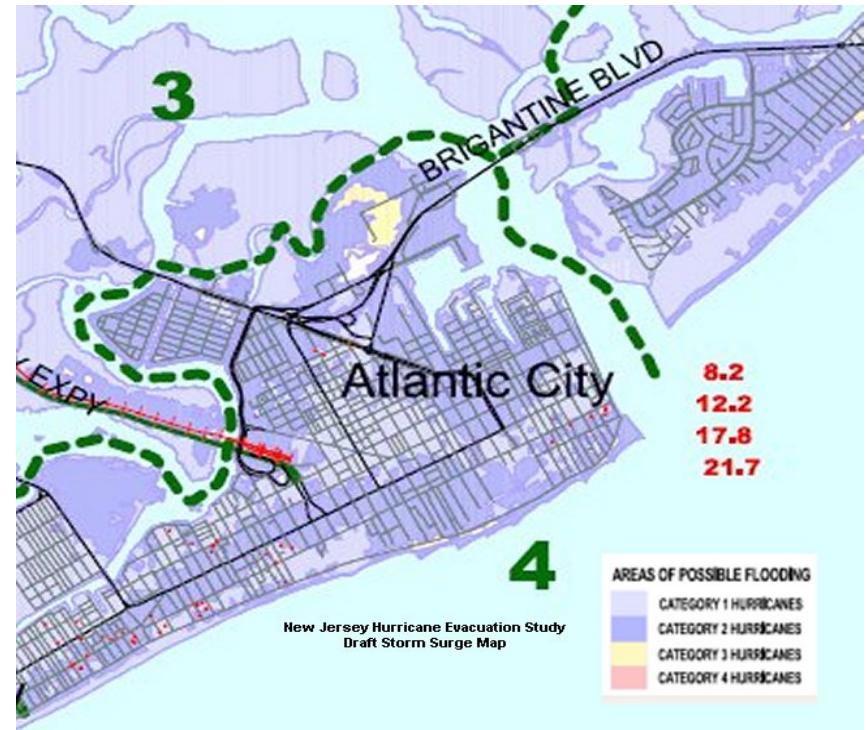
## *Middleclass Communities*




# Seaside Heights - *Vacation Areas*



# Atlantic City - *Resort Areas*



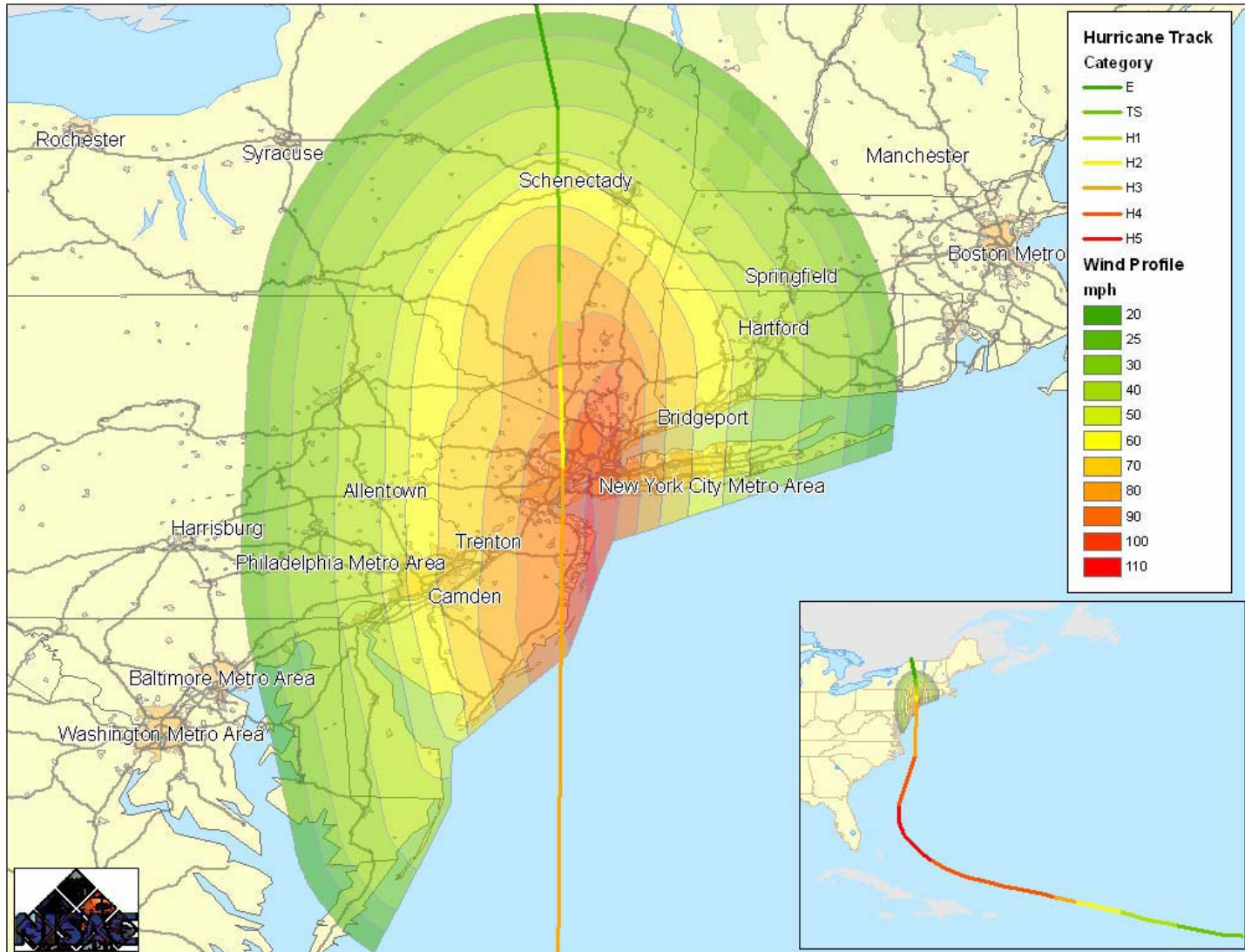


**A look at wind damage in New Jersey by moving the center of the 1938 Hurricane 50 miles to the west.**



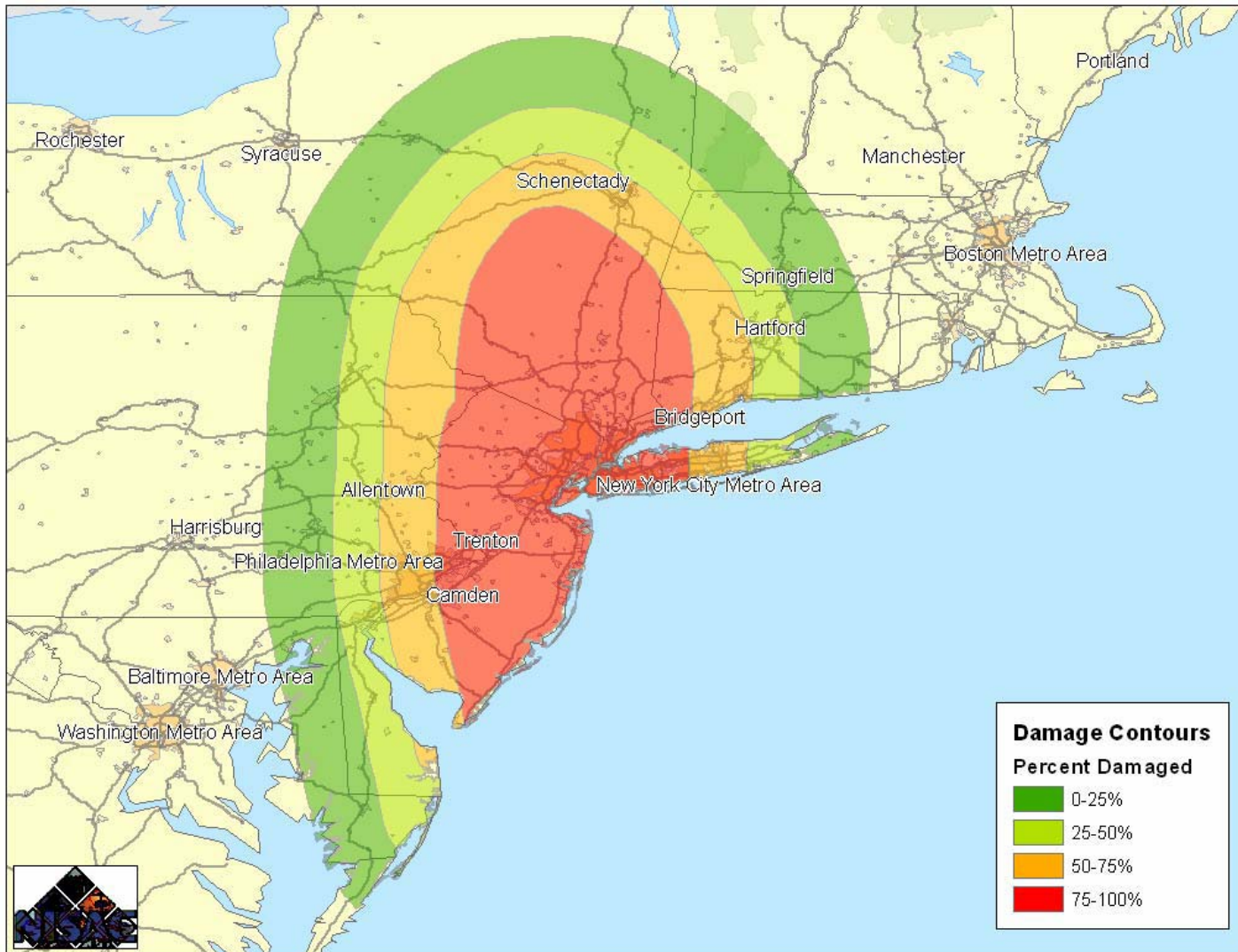
# Hurricane Track and Wind Profile

## Winds Averaging OVER 100 mph Throughout the State

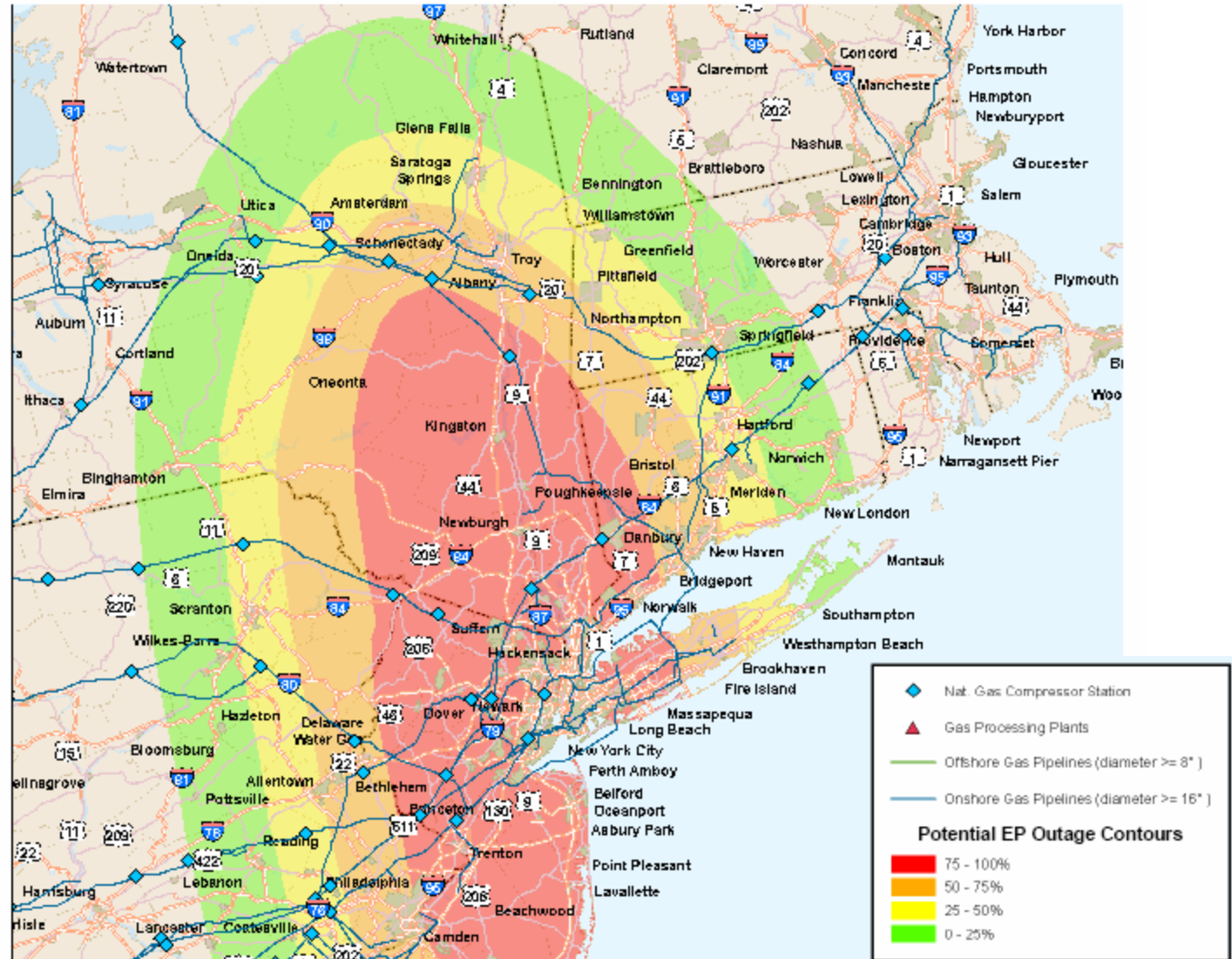


# Electrical Power Failure

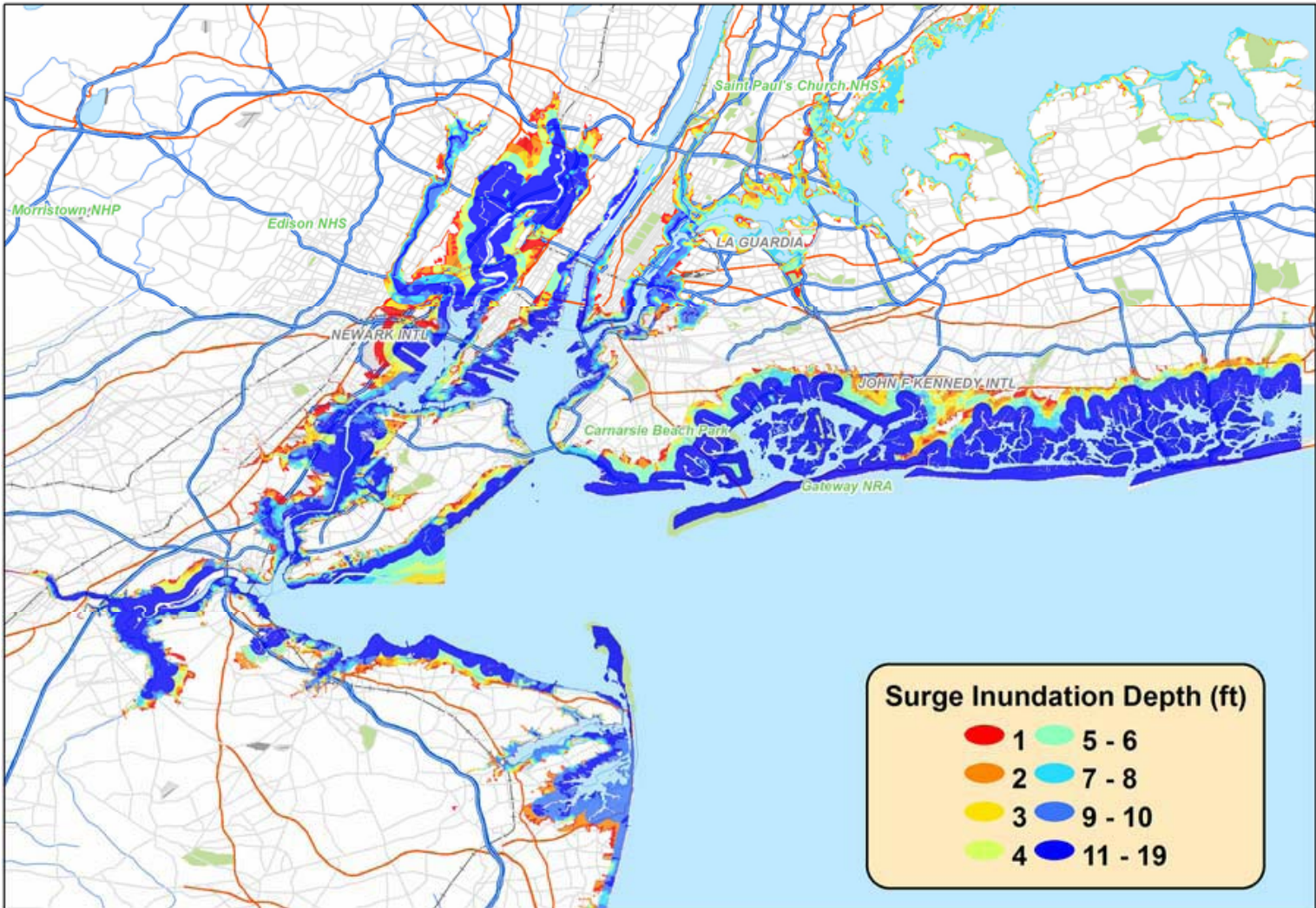
It could take weeks or in some cases longer to restore power



# Natural Gas Impact in Northern NJ



# Beyond Wind ---Storm Surge



# Things to consider


- The most catastrophic damage will be the result of storm surge
- NJ will have storm surge impacts typical of what was seen in Mississippi for Katrina
- The following pictures are easily transferable if you simply think of similar areas in our State

**This could be Rt. 36 in Monmouth County**

**I-10 somewhere between Biloxi and Gulfport . . .**


**. . . 7 to 10 miles inland**



An aerial photograph showing the aftermath of a storm surge in Pass Christian, Mississippi. The landscape is a mix of green vegetation and extensive debris, including wood, metal, and other building materials. A prominent white water tower stands on the left side of the image. A road or path runs diagonally through the center, and a body of water is visible on the left. The overall scene depicts significant destruction and flooding.

This could be a  
community in  
inland Ocean or  
Salem County

Pass Christian, Mississippi in areas that were  
**not previously on flood maps** . . . most of Pass  
Christian was totally destroyed by storm surge

An aerial photograph showing the aftermath of a disaster. The scene is filled with debris, including twisted metal, wood, and household items scattered across a muddy, brownish ground. Several houses are visible, many of which are severely damaged or completely destroyed, leaving only skeletal remains of walls and roofs. The surrounding area appears to be a mix of residential and undeveloped land, with some trees and vegetation still standing but looking sparse. The overall impression is one of significant destruction and desolation.

Could this be what remains  
of a local development 2  
miles inland somewhere in  
Atlantic or Cumberland  
County?

This is inland at Pass Christian, Mississippi

Henderson Point, located off of St. Louis Bay in Mississippi

Imagine scenic inland  
Barnegat Bay



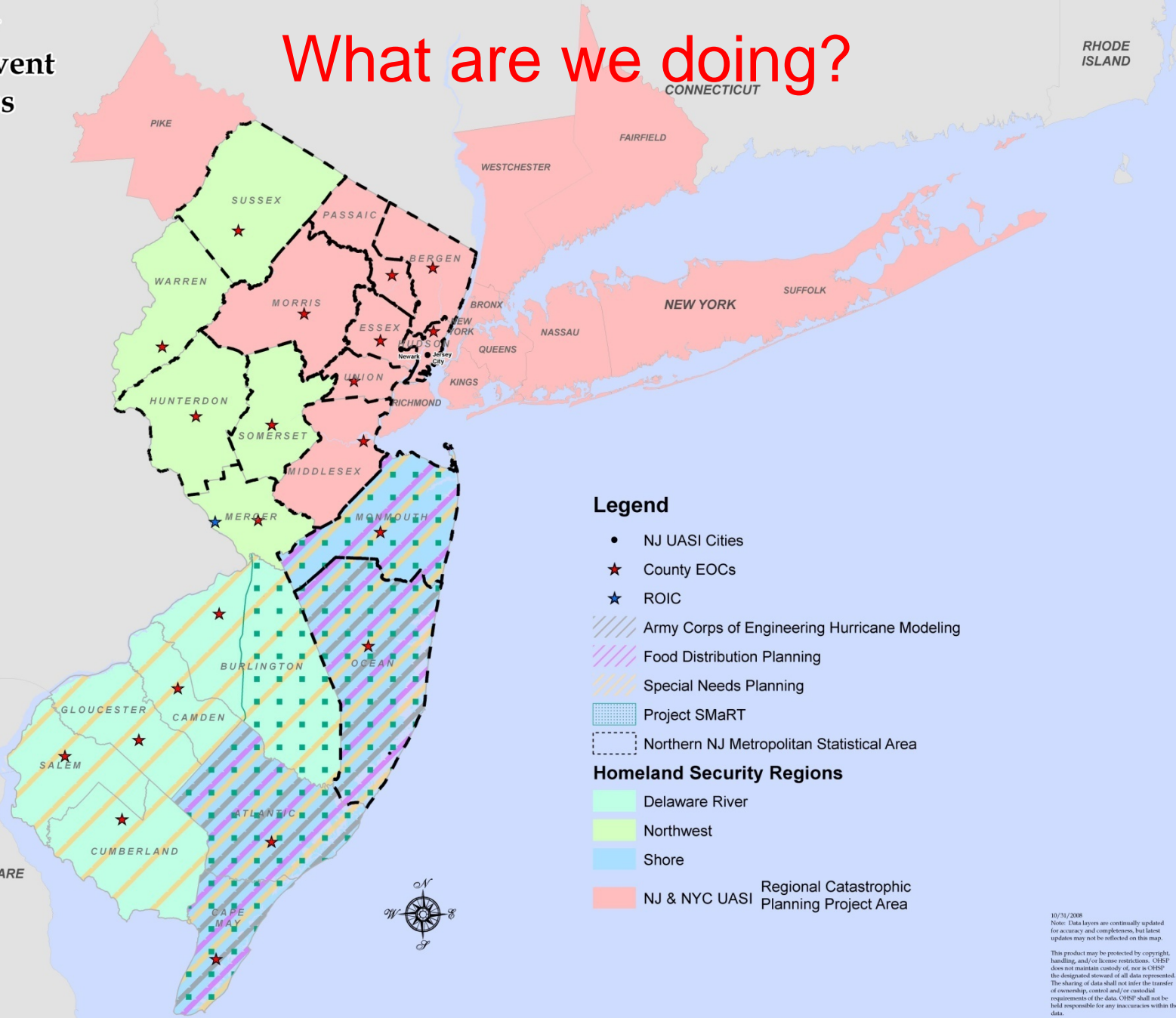
# New Jersey Catastrophic Event Preparedness

# What are we doing?

RHODE ISLAND

CONNECTICUT

PENNSYLVANIA



## Legend

- NJ UASI Cities
- ★ County EOCs
- ★ ROIC
- ▨ Army Corps of Engineering Hurricane Modeling
- ▨ Food Distribution Planning
- ▨ Special Needs Planning
- ▨ Project SMaRT
- ▭ Northern NJ Metropolitan Statistical Area

## Homeland Security Regions

- ▨ Delaware River
  - ▨ Northwest
  - ▨ Shore
  - ▨ NJ & NYC UASI
- Regional Catastrophic Planning Project Area



MARYLAND

DELAWARE

10/31/2008  
 Note: Data layers are continually updated for accuracy and completeness. Not latest updates may not be reflected on this map.  
 This product may be protected by copyright, handling, and/or license restrictions. CHSP does not maintain custody of, nor is CHSP the designated steward of, all data represented. The sharing of data shall not infer the transfer of ownership, control and/or custodial requirements of the data. CHSP shall not be held responsible for any inaccuracies within the data.



# **New Jersey Planning Initiatives Addressing Catastrophic Events in NJ**

- Catastrophic Statewide Integrated Planning for 14 Counties and their communities underway with a \$2.5 Million commitment under the direction of NJ OEM with the remaining counties being completed presently
- Evacuation Planning and Contra Flow for our major highways with efforts by the NJ OEM and Rutgers University
- A Bio Terrorism planning effort scheduled to be initiated late this year for the development of operational plans for both hospitals and the public health community

# Planning Initiatives-continued


- Food Distribution Planning with the Private Sector to ensure food provisioning during major disasters
- DHS commitment of \$17 Million over the next two years to support a regional effort with New York City including developing full operational plans for a catastrophic disaster impacting our region
- Continuing our work with the private sector through the Infrastructure Advisory Committee
- A \$7 million automated security warning system for the Delaware River and Bay waterways and surrounding infrastructure

# Planning Initiatives-continued

- Studies planned around our most congested regions along the Hudson and Delaware Rivers looking at our critical infrastructure to improve how we response and recovery from damage to critical facilities
- Continued commitment by the Governor to support Homeland Security and Preparedness initiatives
- A new marketing program by OHSP to improve citizen awareness
- Preparedness College established by OHSP
- New Jersey Hospital Association is expanding their preparedness efforts

# Plans Ahead !

- Expanded efforts with food and other retail providers
- Restoration of our critical infrastructure
- Enhancement of public awareness and education
- Further improving our relationships with the federal government, DoD and other states
- Important to think ***REGIONALLY!*** We must all plan together - - - we ***WILL*** all stand or fall together after the next catastrophic event



Thank you