

# The South Carolina National Guard

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*Guarding America — Defending Freedom*

## SCNG Flood Response “Operation Diluvi”

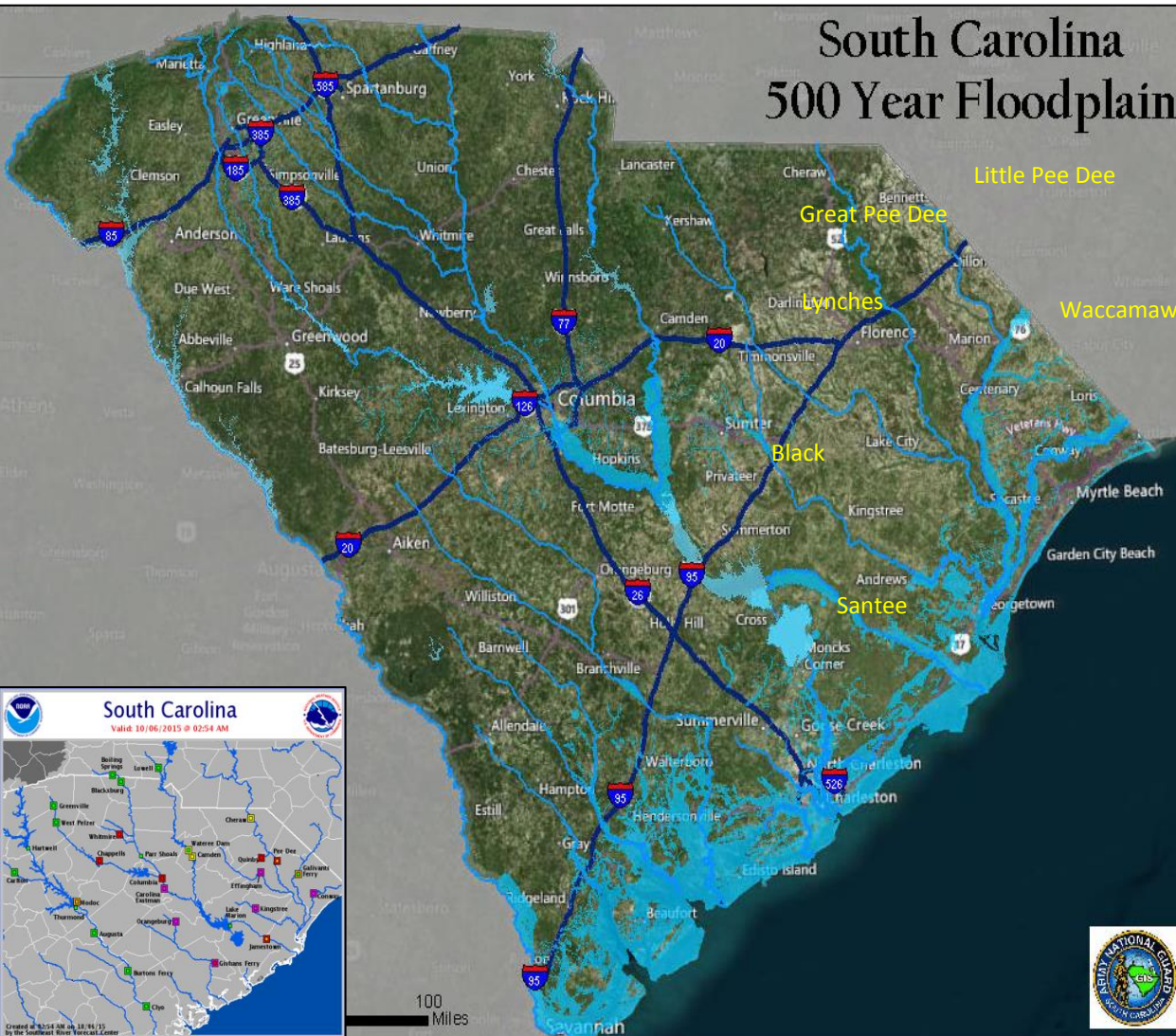


*South Carolina National Guard  
05 November 2015*

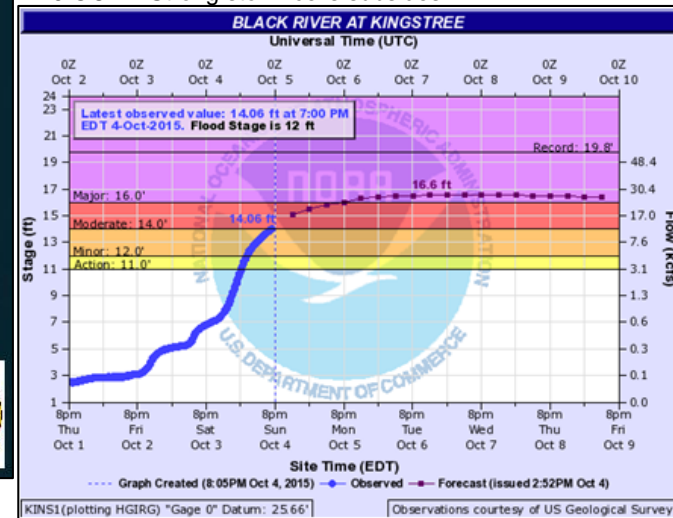
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*FOR OFFICIAL USE ONLY (FOUO)*

# What We Expected / What Happened

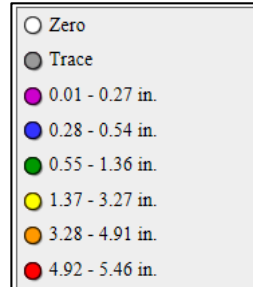
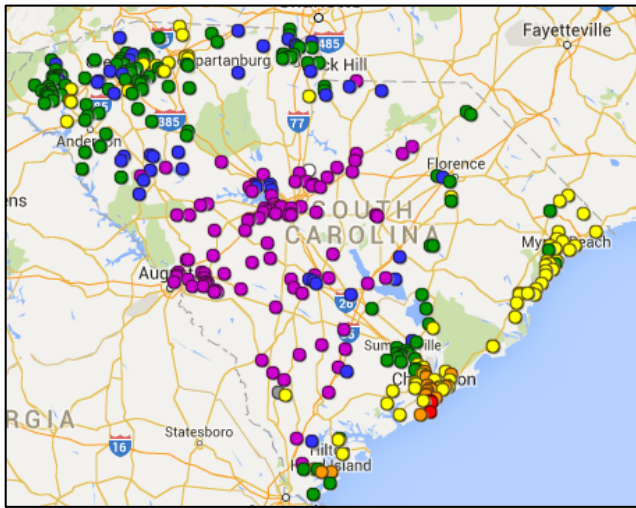


- 1 OCT – State of Emergency declared by Governor Haley
- 2 OCT – Mobilization/ SCNG establishes operational areas
- 3 OCT – First county mission tasked. FEMA declares state of Emergency
- 3 OCT – Dams/roads/bridges begin to show effects of failing/washing out
- 4 OCT – Rainfalls peak and continue to add to rivers that are already over flood stage levels
- 4 OCT – Dams begin to be compromised
- 5 OCT – Federal State of Emergency for affected counties
- 6 OCT – Strong storm cells subsides

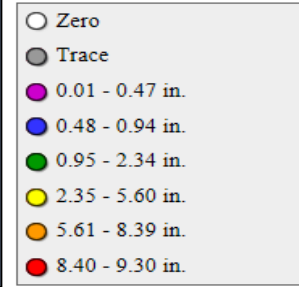
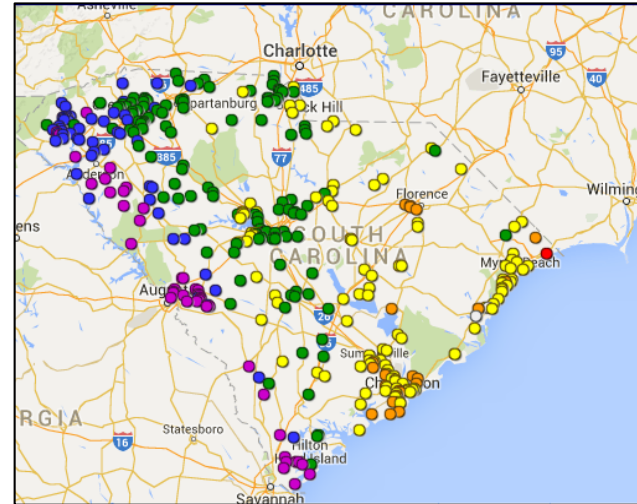


# Rainfall from 2 -5 OCT

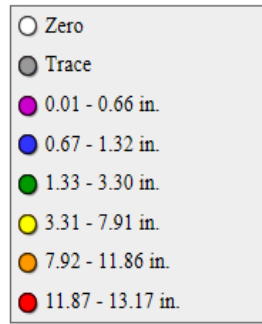
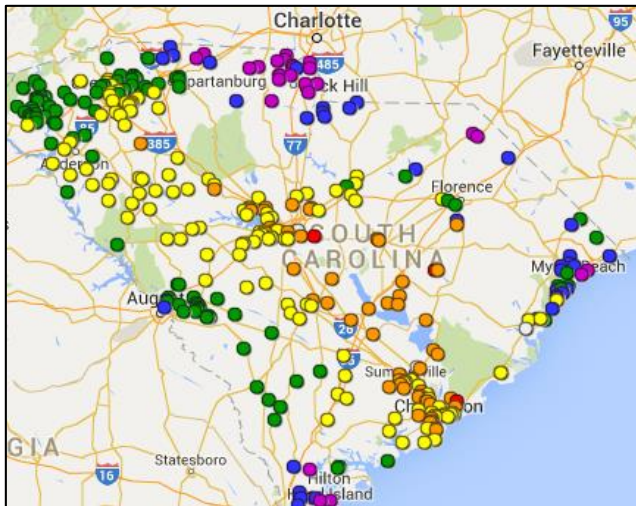
## Fri 2 Oct



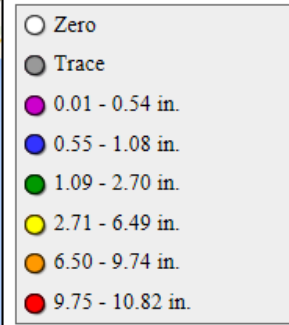
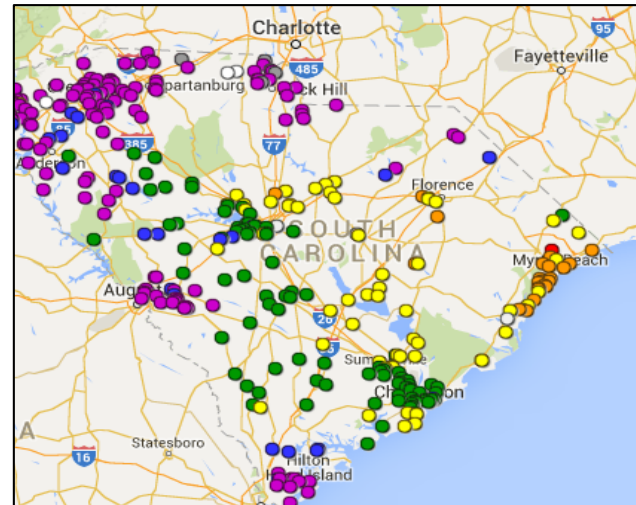
## Sat 3 Oct



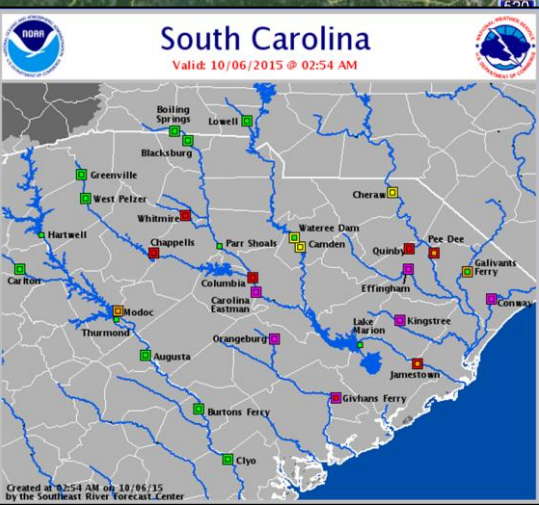
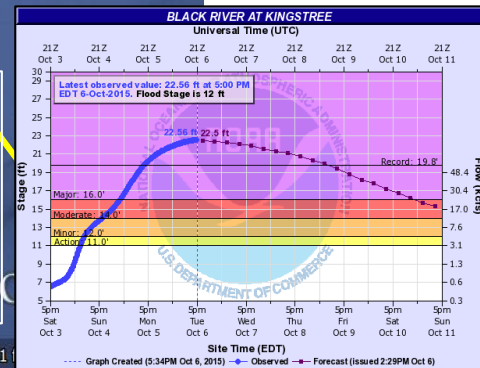
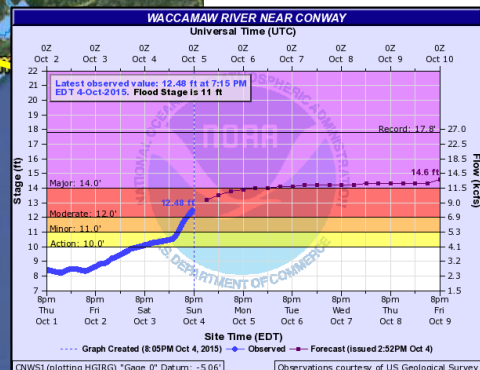
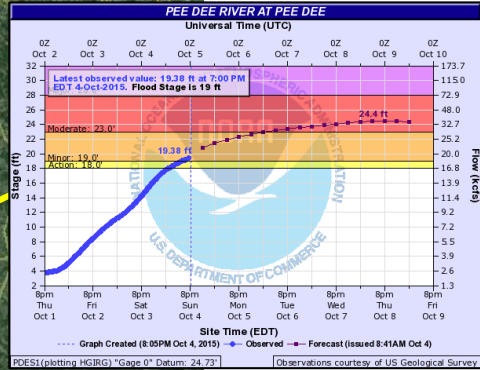
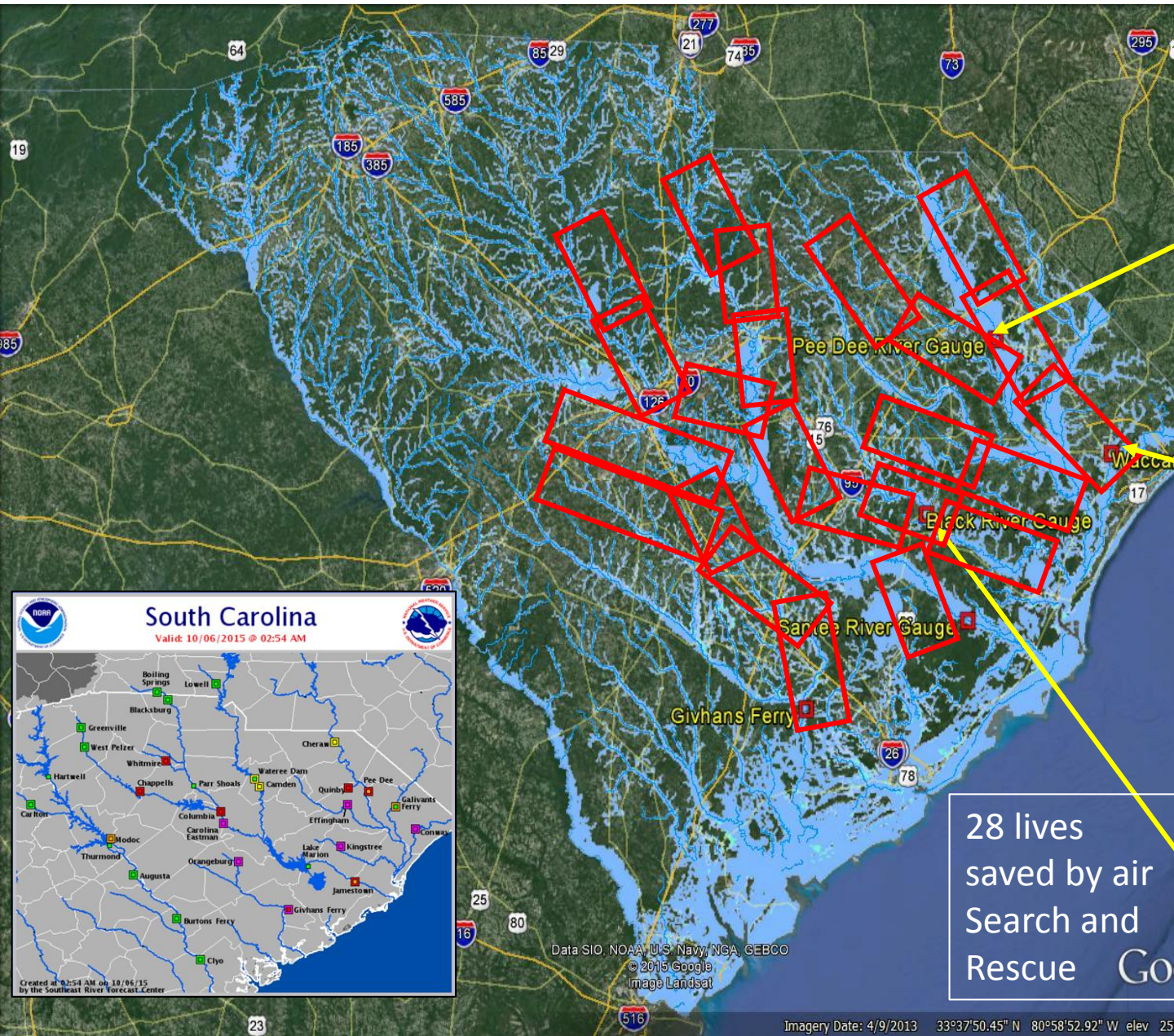
## Sun 4 Oct



## Mon 5 Oct



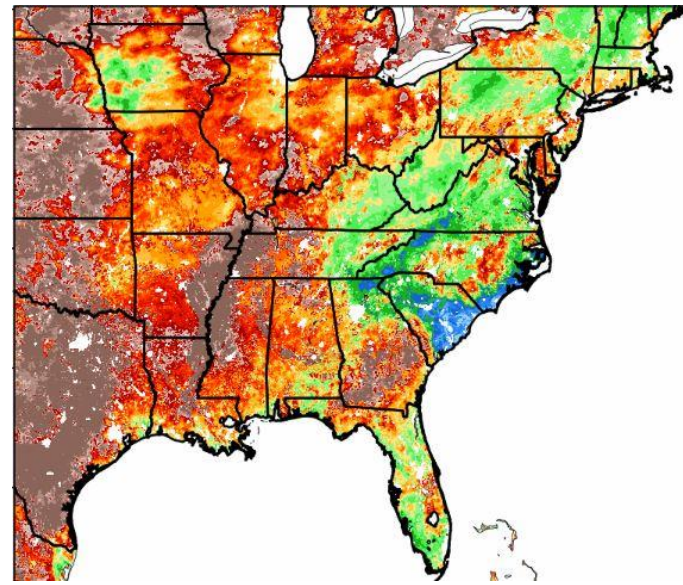
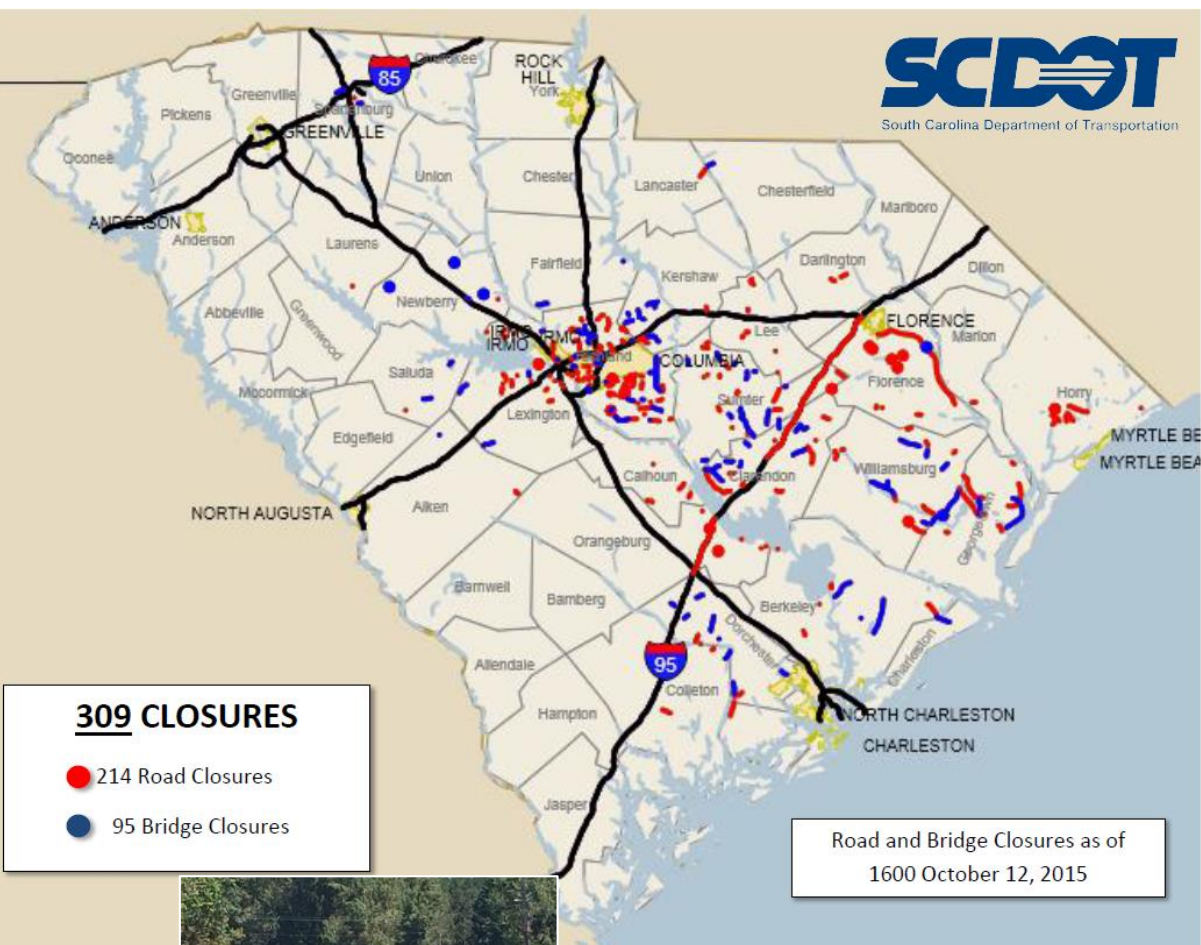
# Aerial Search and Rescue Grids



28 lives saved by air Search and Rescue

Data SIO, NOAA, U.S. Navy, NSA, GEBCO © 2015 Google Image Landsat

Imagery Date: 4/9/2013 33°37'50.45" N 80°58'52.92" W elev 251



# South Carolina National Guard

Flood Response Highlights Oct 1 – Ongoing

Priorities:

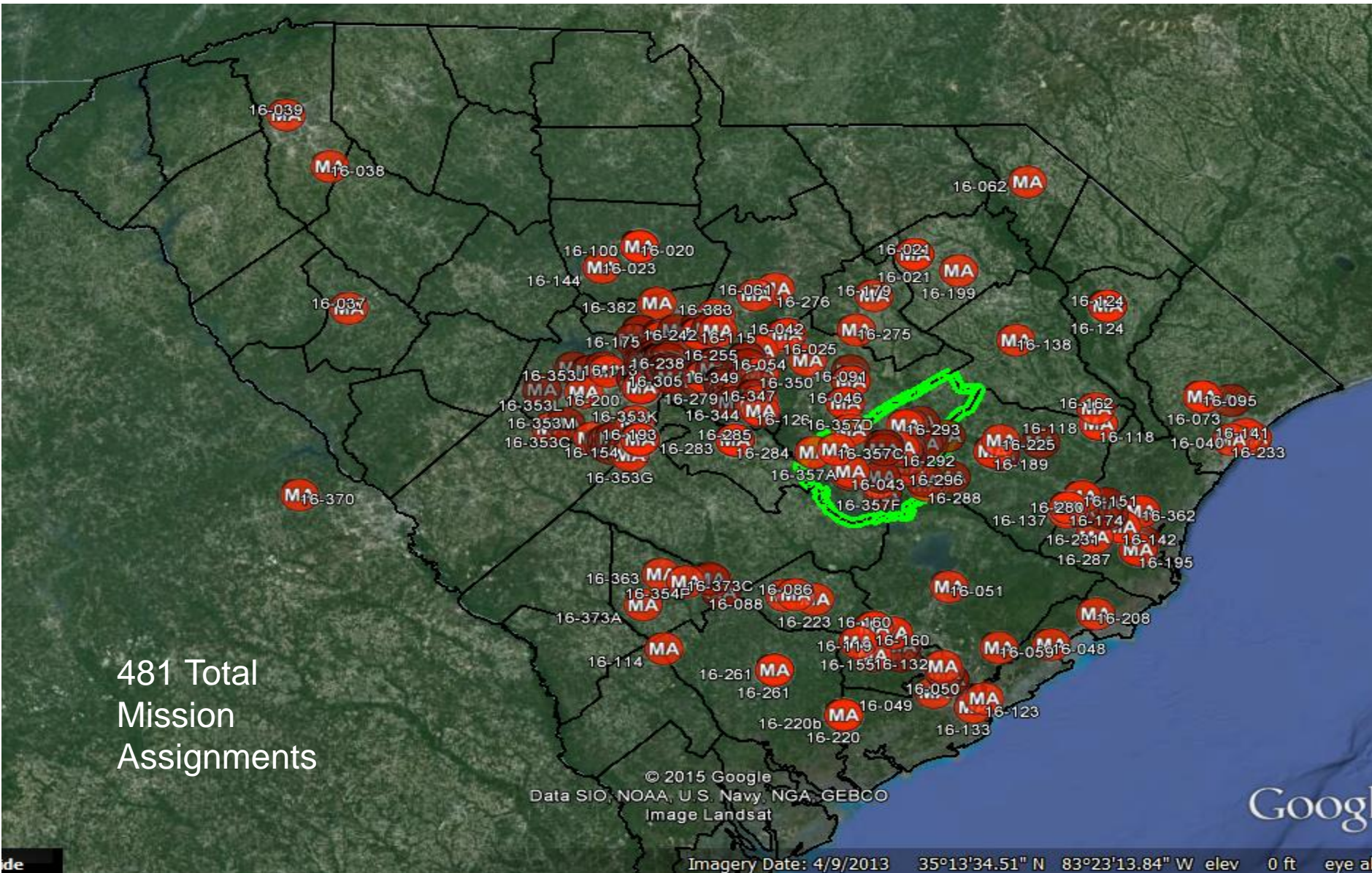
Search & Rescue

Ground/Air Extraction

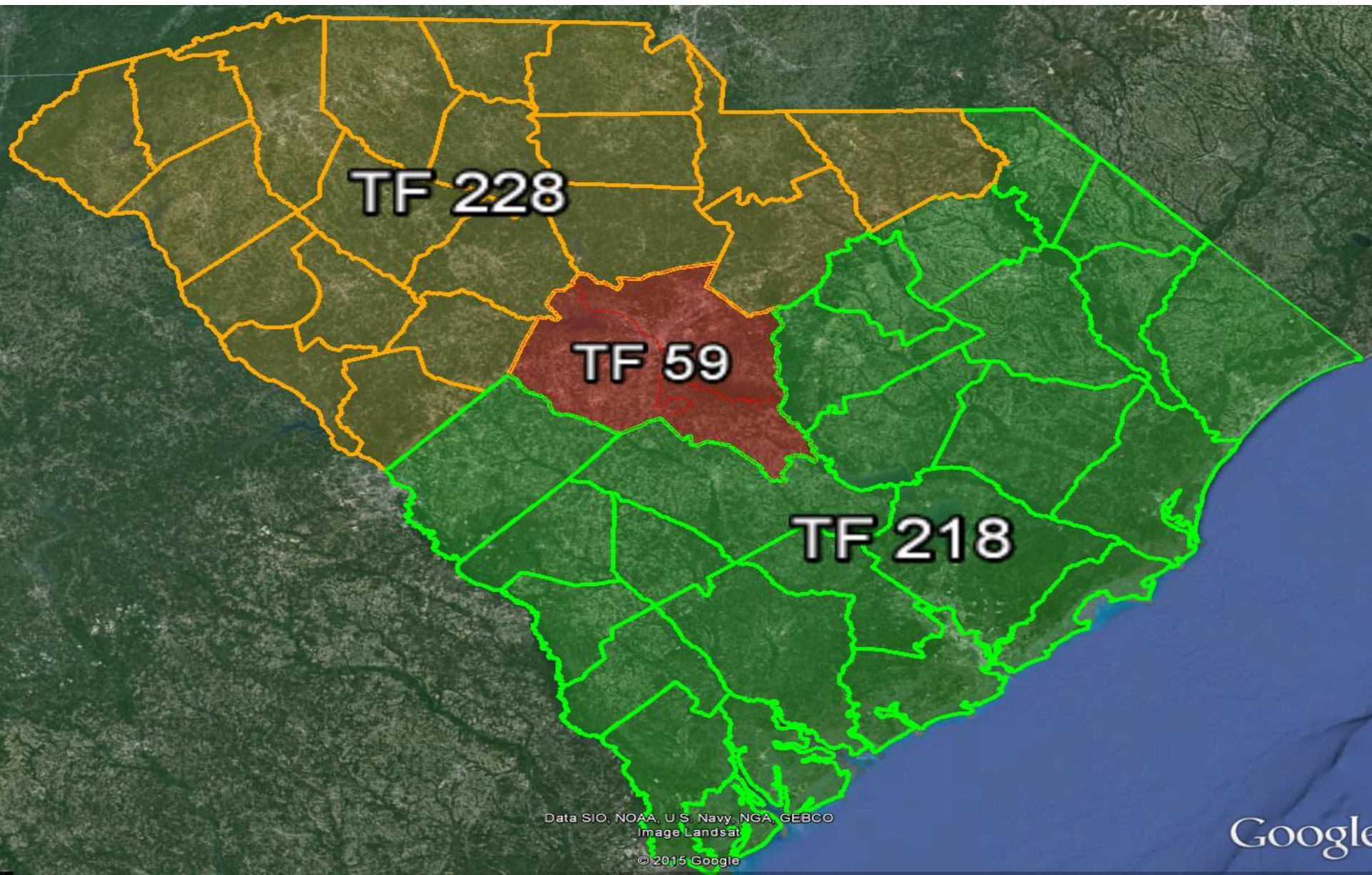
Protection of Infrastructure

Emergency Restoration

# MISSION ASSIGNMENTS

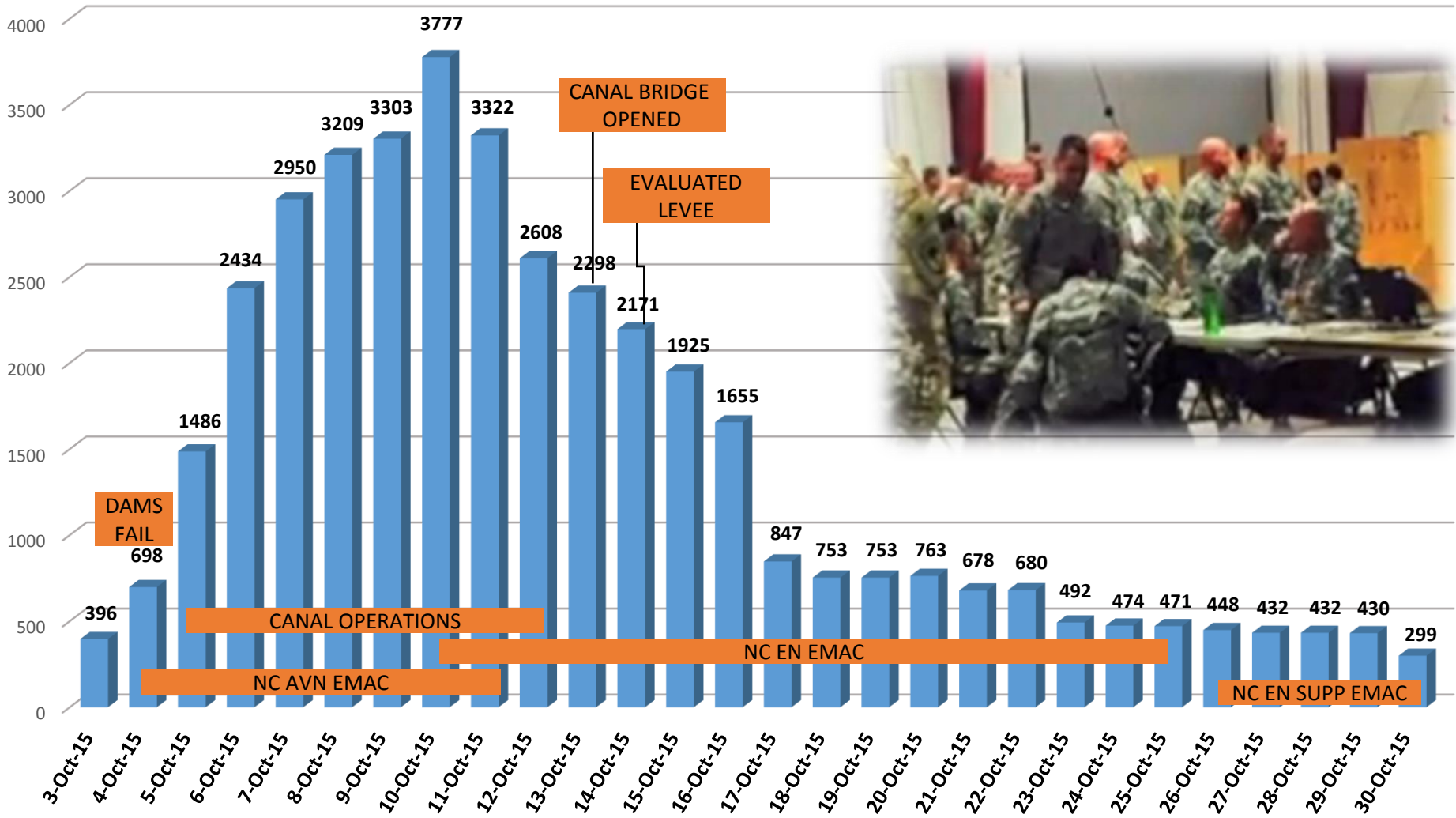


# AORs as of 11OCT





# TIMELINE-TOTAL PERSONNEL



# PHASES OF OPERATIONS

- Pre-Surge Activities  
(Shape, Anticipate, Respond)
  - Pre-position response assets
  - Air/Ground Evacuation
  - Critical Infrastructure Protection
  - Shelter and Distribution Point Support
- Immediate Response  
(Operations)
  - Search and Rescue
  - Air/Ground Evacuation/Extraction
  - Critical Infrastructure Protection
  - Shelter and Distribution Point Support
  - Security Operations



# PHASES OF OPERATIONS

- Post-Surge Activities

- (Stabilize)

- Damage Assessment
    - Critical Infrastructure Protection
    - Shelter and Distribution Point Support
    - Security Operations
    - Open Lines of Communication
    - Limited Search and Rescue/Evacuation



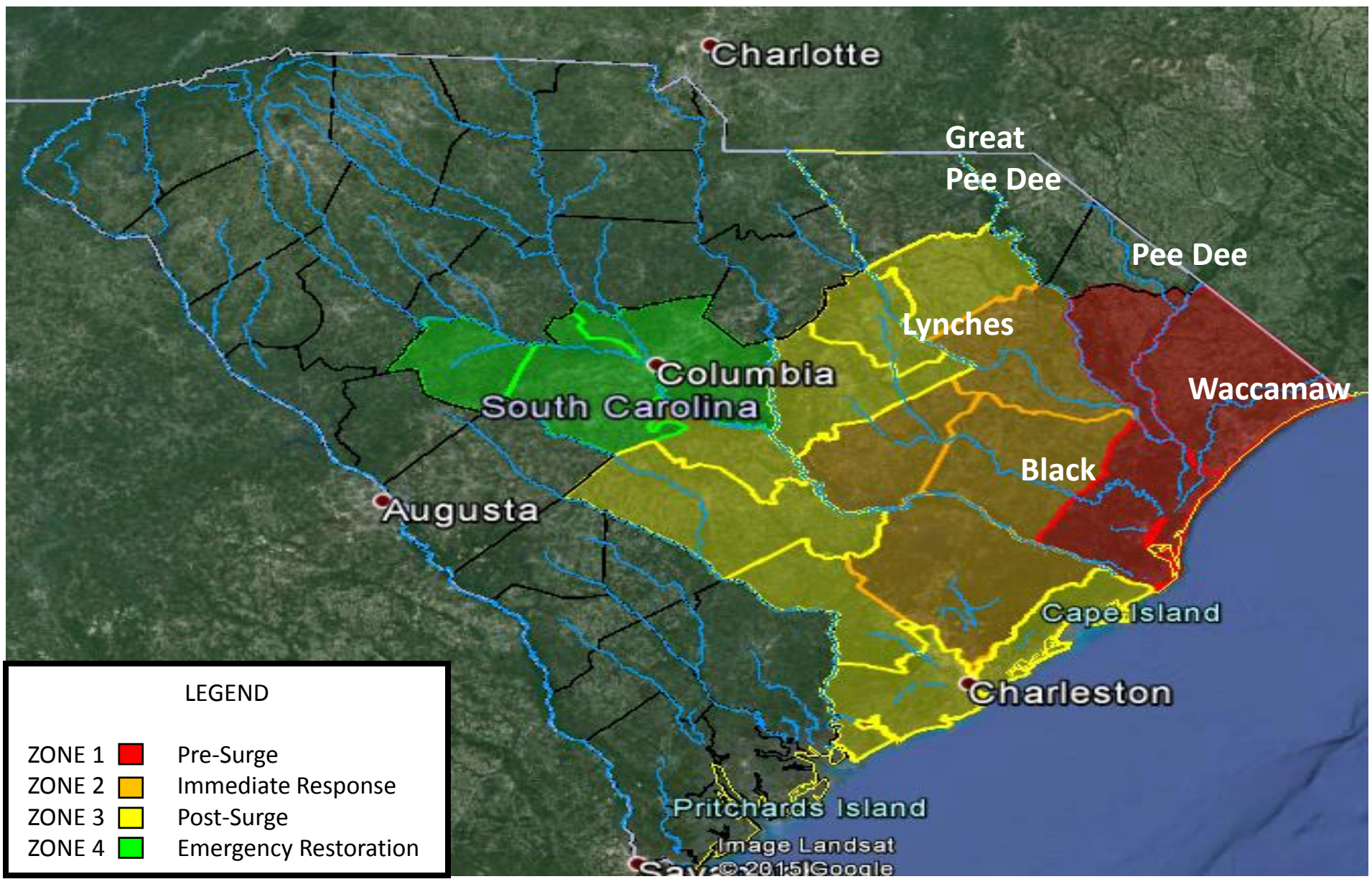
- Emergency Restoration

- (Transition)

- Damage Assessment
    - Hasty Repair
    - Open Lines of Communication

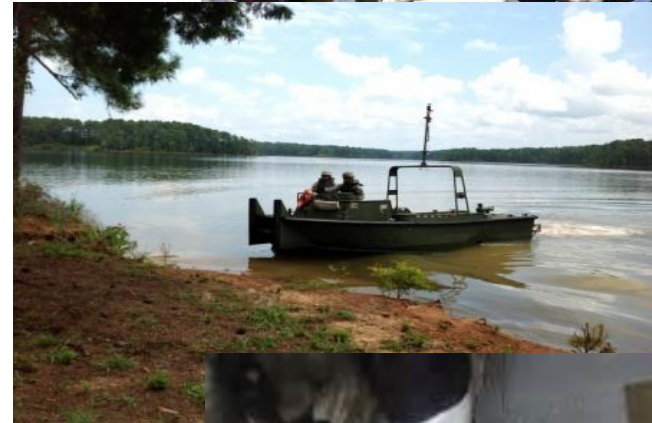


# OPERATIONS BY AREA



# High Water Rescue

- SCNG personnel pre positioned 4 Oct
- More than 3,000 individuals evacuated to Safety using High Water Vehicles
- 170 Lives Saved by High Water Vehicles
- 11 Lives Saved by Boat Rescue
- 28 Lives Saved by HART rescues



# SEARCH AND RESCUE



209 LIVES SAVED

# EMERGENCY EVACUATIONS



170 LIVES SAVED BY HIGH WATER VEHICLE TRANSPORT  
3,000+ INDIVIDUALS EVACUATED

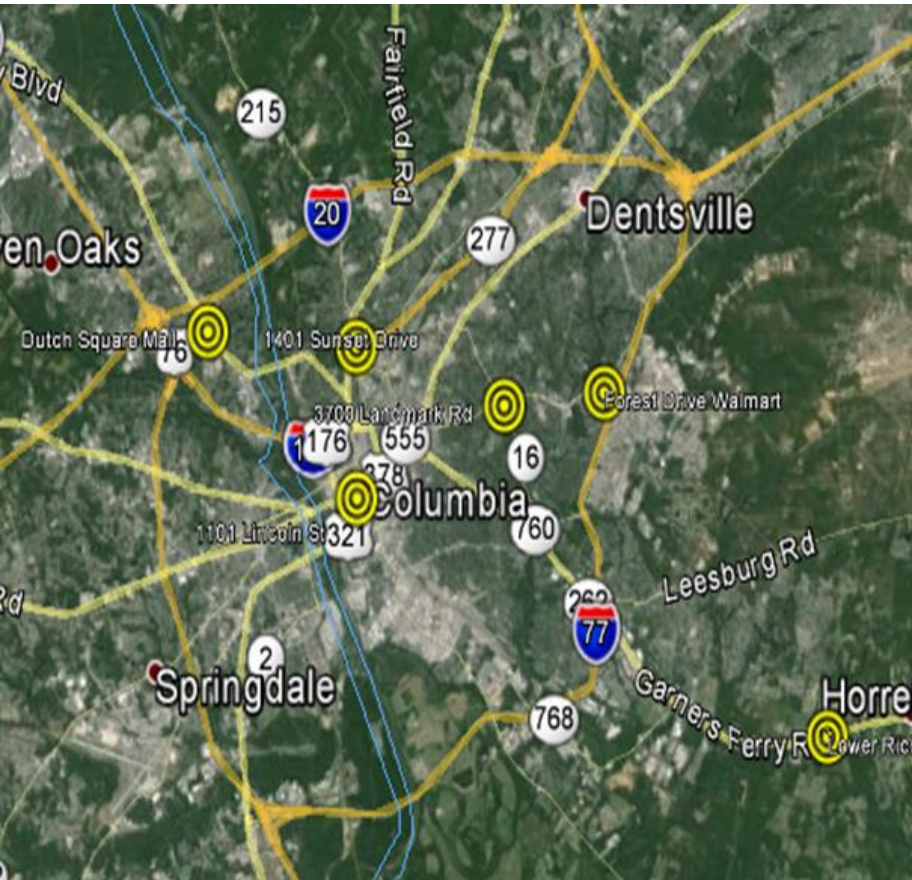
# Security and Safety

- Manned 138 Traffic Control/Security Points
- Provided Security for 5 Shelters
- Responded to 77 Fire Calls with the City of Columbia Fire Department
- Pumped 60,000 gallons of water from flooded buildings in Columbia





# LIFE SUPPORT



19 POD SITES ESTABLISHED FOR WATER AND SUPPLY DISTRIBUTION  
TRANSPORTED 16,500 BULK WATER  
TRANSPORTED 70,000 BOTTLES OF WATER  
TRANSPORTED 92,000 RED CROSS MEALS AND MREs  
CONDUCTED 2,000 WELLNESS CHECKS

# HOSPITAL SUPPORT



PURIFIED 1.8 MILLION GALLONS OF WATER AT 3 HOSPITALS IN COLUMBIA  
EVACUATED AVERTED FOR PATIENTS

# Sandbag Operations

- Transported 526,000 Empty Sandbags and 80 Pallets to Support Operations
- Transported over 130,000 full sandbags to 15 counties
- Transported over 3,500 tons of Raw Sand
- Filled and Transported 7000 1-ton Sandbags



# DAM FAILURE ASSISTANCE



ASSISTED IN 2 DAM SAVES  
INSPECTED 10 DAMS

# Columbia Canal - Before



TRANSPORTED OVER 35,000 TONS OF LARGE ROCKS TO CANAL  
PROVIDED ENGINEERS AND BOATS TO CANAL TO ASSIST IN TEMPORARY REPAIRS

# Columbia Canal - After

- 4 Oct Levee Breach
- 5 Oct Aviation Sling Load
- 6-11 Oct Rock Dam Pre-Mature Push;  
Levee in Jeopardy
- 7 Oct Rock Dumped from Bridge
- 8 Oct CST Command Post; Coordinated  
16 Agency Response
- 10 Oct Fabricated Temp Gates
- 12 Oct Closed Last Gate; Rock Dam  
Closed; Crisis Averted

# EMERGENCY ROAD REPAIRS

TF 130 / 16-327 – Dave Plowden Rd. – Clarendon County



**BEFORE**



**AFTER**

TF 59 / 178 EN BN / Richland County / Whitehouse Rd



CONDUCTED OVER 164 EMERGENCY ROAD REPAIRS

# Operational Tempo

- SCNG has conducted Operations in 20 Counties.
- Over 260,000 OPTEMPO Miles recorded on Military Vehicles.
- Over 290 Army Aviation Flight Hours logged.





# Keys to Success

- Prior Relationships and Rehearsal
- Predictive Intelligence Analysis
- Messaging
- Use of Liaisons in combination with formal National Response Framework





11/6/2015