

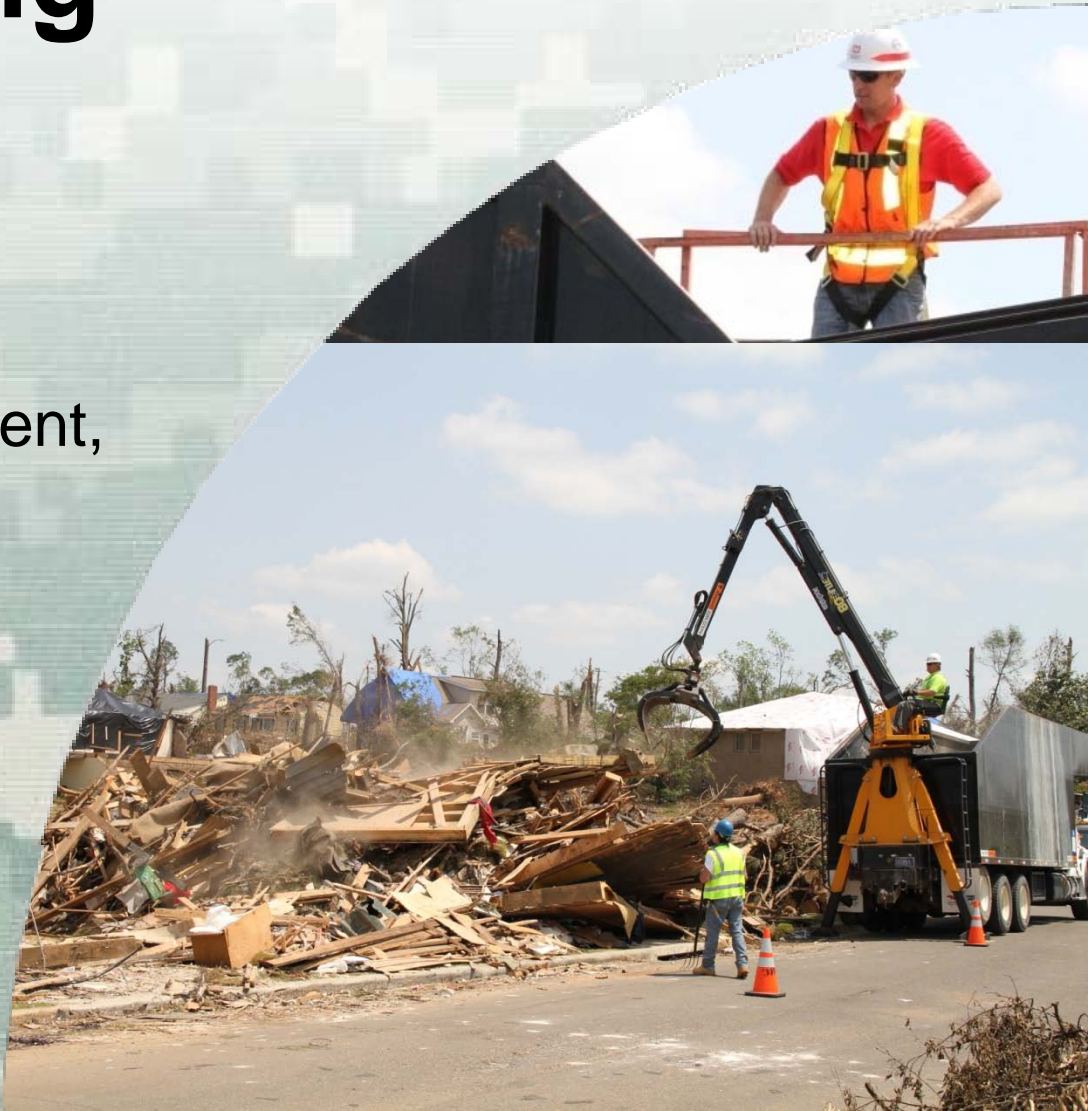
# Alabama Tornado Response Mission Briefing

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US Army Corps of Engineers  
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# U.S. ARMY CORPS OF ENGINEERS DISASTER RESPONSE

- The Corps Responds under three authorities:
  - Federal Emergency Management Agency Support
  - Department of Defense
  - U.S. Army Corps of Engineers Authorities



# SUPPORT TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY

- U.S. Army Corps of Engineers is lead for one of 15 federal mission areas: engineering and public works
- FEMA authorizes USACE through Mission Assignments/Funds.
- USACE is responsible for life cycle mission management including planning, funds management, and contract management.



# PLANNING AND RESPONSE TEAMS (PRT)

## ▪ READINESS

- Ice
- Water
- Emergency Power
- Debris Removal
- Critical Public Facilities
- Temporary Housing



# Video

Unit: U.S. Army Corps of Engineers

'ATC 052711' Run: 1:59

Produced PKG w/ Graphics

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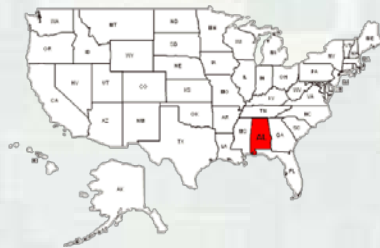
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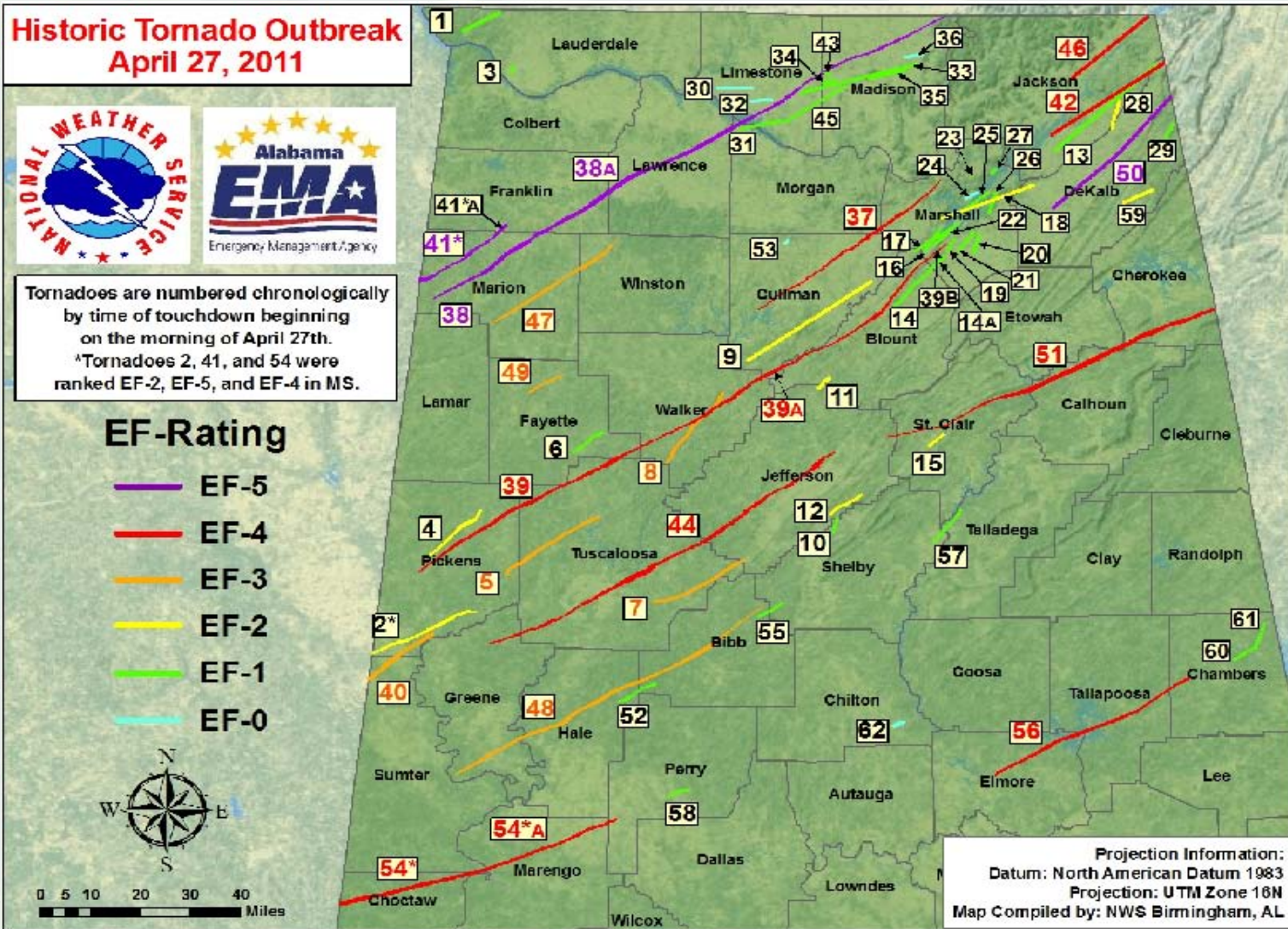
# RFO Mission

Provide response and recovery assistance to the citizens of Alabama through the execution of FEMA Mission Assignments in support of the National Response Framework.

RFO initiated operations on 3 May 11.



# Alabama Tornado Tracks



# Debris

## Mission:

- USACE tasked by FEMA for ROW removal of 61 localities (counties, towns, lakes, and cities).
- Tasked with waterway debris removal at 2 Lakes and Private Property Removal (PPDR) in 33 locations.
- 4.4M CY ROW debris removed.
- 2,500 homes that had PPDR with total of 770K CY removed.



# Timeline



## Sig Events



# ROW Hauling



# Wet Debris Removal



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# PPDR



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# Lessons Learned

## Issue:

- PPDR was impacted by “Operation Clean Sweep” (OCS) which was suppose to streamline/eliminate the need for individual property owner ROEs.

## Resolution:

- Decision needs to be made early-on if OCS will be fully implemented or if ROEs will be used similar to normal PPDR.



# Lessons Learned

## Issue:

- Double-dipping on clean-up by insurance companies and PPDR.

## Resolution:

- The final version of the ROE included an area for each owner to input their insurance number. Although, not bullet proof, it seemed to work well.



# Lessons Learned

## Issue:

- FEMA thought standard ROE form was approved and w/ the help of AL EMA, it went out to public w/o being blessed/approved by all parties. Subsequently, multiple forms were provided to the public and they were misinformed of the process.

## Resolution:

- For each mission, all interested parties (FEMA, USACE, and State) need to agree upfront (a) on the ROE form to be used and (b) to stick with the approved ROE form. In addition, an SOP needs to be developed early on.



# ADMS

(Automated Debris Management System)

- Paperless electronic data collection and management.
- Limited opportunities for data entry errors and no legibility issues.
- Satellite based GPS technology allows accurate automated debris pickup location.
- Near real time event status using web-based reporting and GIS tools.
- Timely reconciliation of invoices.



# ADMS Example



## Field Hardware

- Symbol MC70 with integrated GPS
- TSL Smart Card Reader
- Zebra RW420 Bluetooth Mobile Printer



# Lessons Learned

## Positives:

- Utilizing the grids, NEPA compliance was expedited.
- Once the process was resolved, the mission became a huge success.
- ADMS recordkeeping system.
- Local Government Liaisons (LGLs)
- Implementation of the Incident Command System (ICS) into our organization.



# Before and After Aerial of Forest Lake



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# Forest Lake



# Forest Lake



# NOVA UAV

- Flight Deployment Time and Locations are FAA dependent.
- Resolution/accuracy (2-5 cm)
- Mosaics can be US Map Standard
- Hand Launched and Easily Recovered.
- Suitable for remote location flights



# Questions / Comments



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