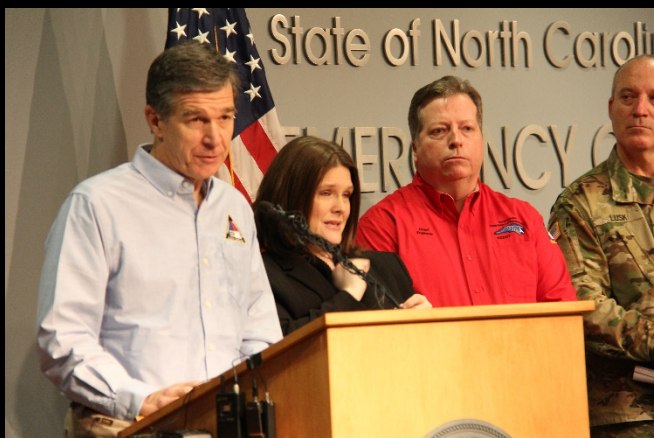


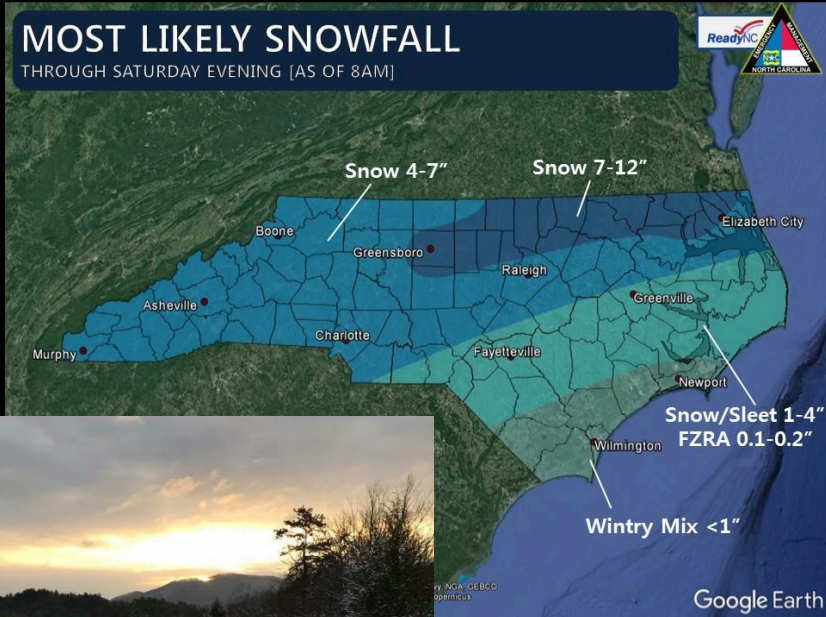


North Carolina Emergency Management 2017 Overview



Winter Storm

Winter weather hit across the entire state during the Gov. Cooper's first week in office prompting the cancellation of many of the inaugural festivities. A wintry mix fell across the east, 1-6" of snowfall across the Piedmont and 8-11" of snow in the mountains. The storm caused 2 fatalities and 30,200 power outages. State troopers responded to 1,650 crashes in four days. ~ Jan 5-8





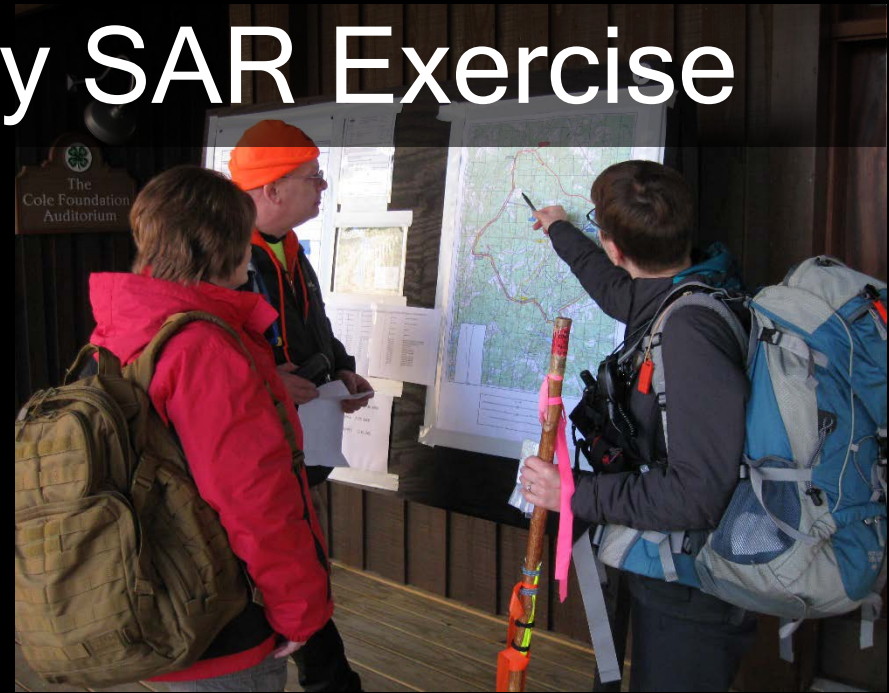
Winter Forums

NCEM Senior Staff traveled to the branches to discuss ongoing disaster relief efforts, upcoming events, training and other topics of interest to county partners. ~ January 24-26

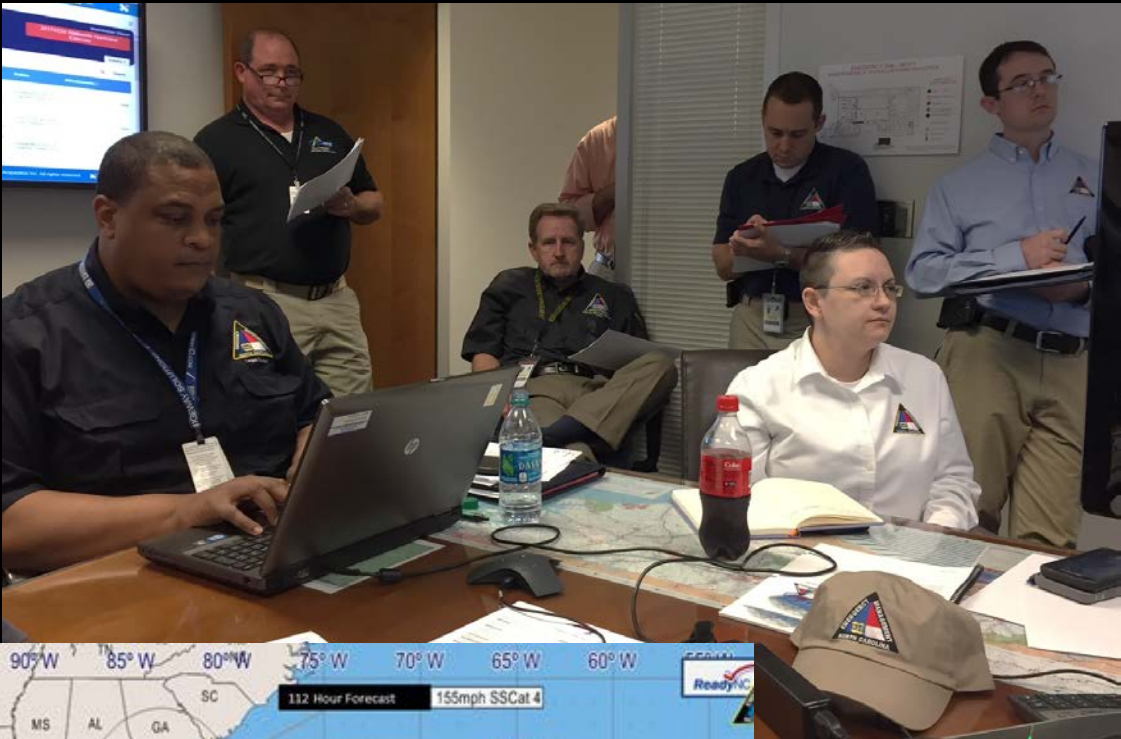


Richmond County SAR Exercise

100+ participants from 22 agencies trained in search operations at a 4H camp in Ellerbe. Emergency management personnel from Richmond, Moore & Montgomery counties & NCEM worked with teams and coordinated operations. The three-day exercise featured tracking and equestrian search operations and provided opportunities to test skills and form an Incident Management Team. ~Feb 3-5

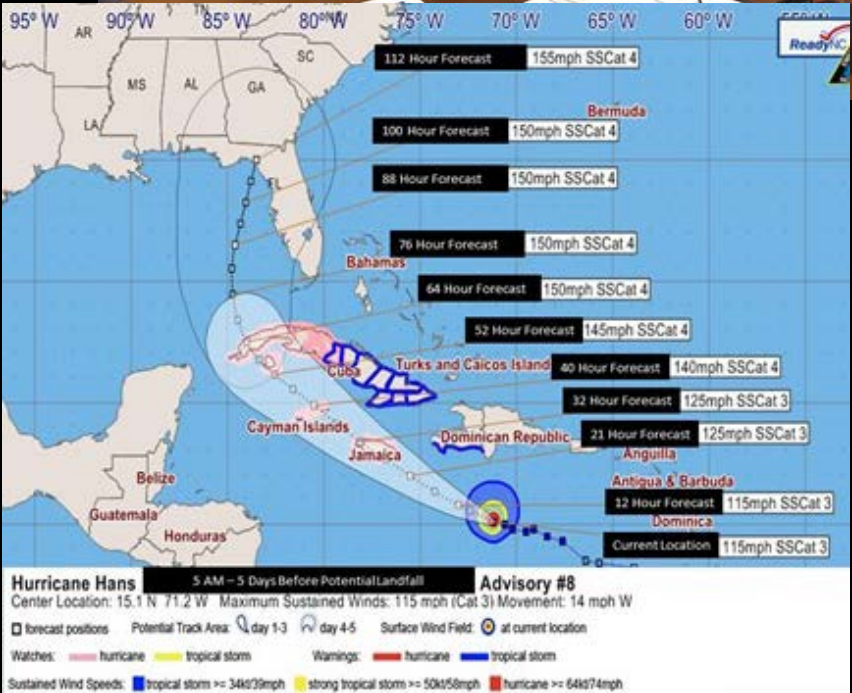


Statewide Hurricane Exercise



The statewide exercise tested the SERT's ability to respond to and recover from 'Hurricane Hans.' The two-day full-scale exercise provided an opportunity for more than 280 people from 81 partner agencies to coordinate and collaborate on local and state disaster response plans.

~Feb 28 - Mar 1





NCEMA Spring and Fall Conferences



State and local emergency management experts came together at the annual conferences to discuss response and recovery efforts to events this year including flooding, hurricanes and other projects such as THIRA and StormReady Communities. ~ March/October





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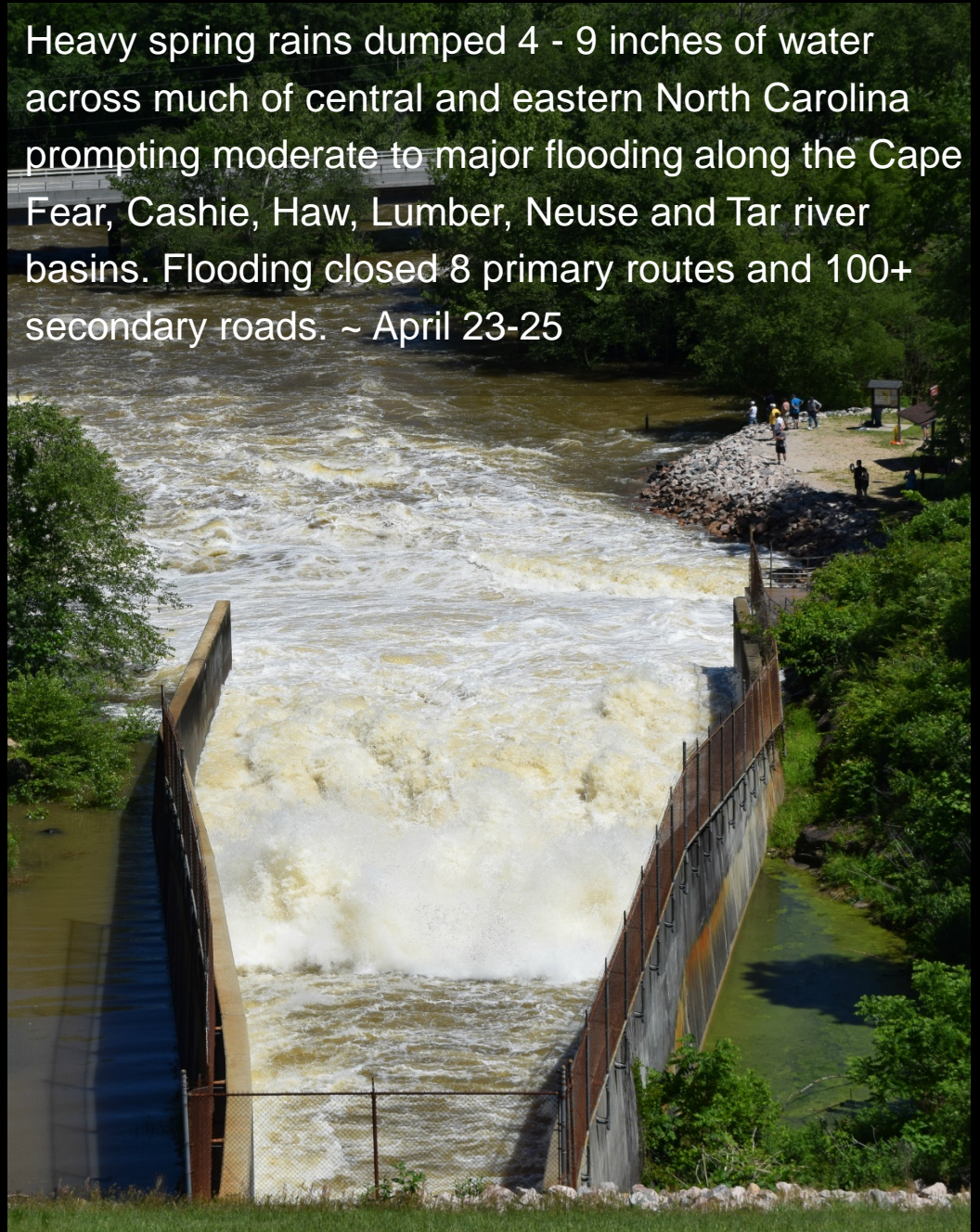
Dobson Knob Fire

Wildfires burned nearly 1,800 acres of private land as well as part of the Pisgah National Forest near Marion in McDowell County. NCEM provided support to county and NC Forest Service. ~ April 9 -17

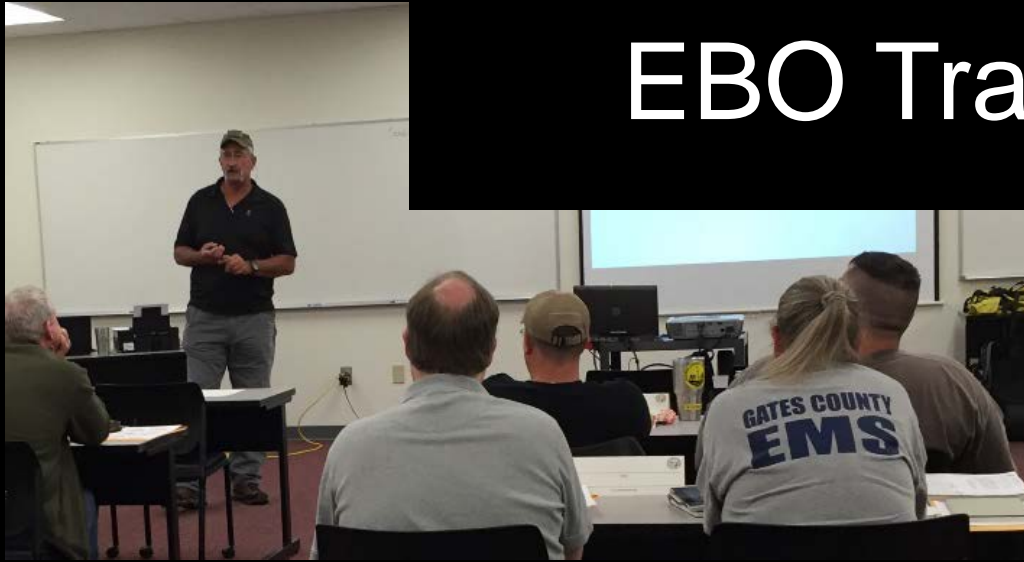
Heavy spring rains dumped 4 - 9 inches of water across much of central and eastern North Carolina prompting moderate to major flooding along the Cape Fear, Cashie, Haw, Lumber, Neuse and Tar river basins. Flooding closed 8 primary routes and 100+ secondary roads. ~ April 23-25



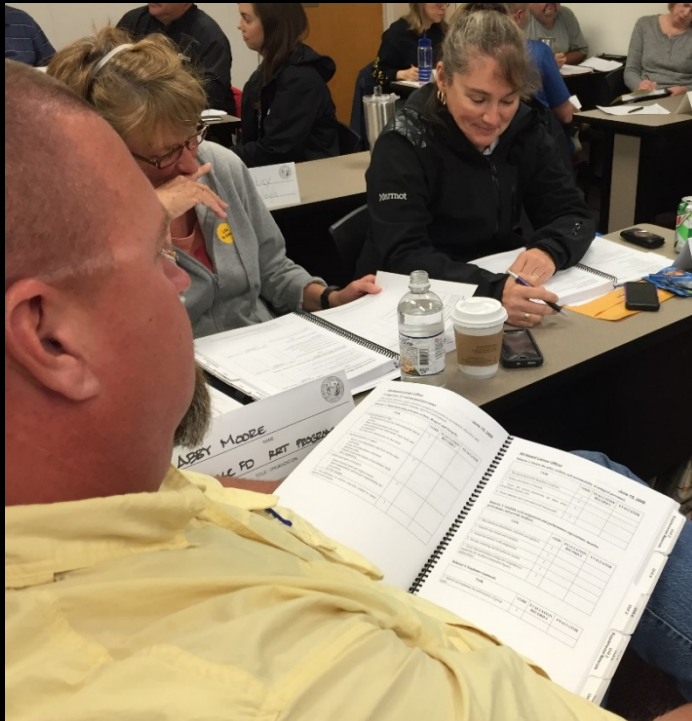
April Flooding



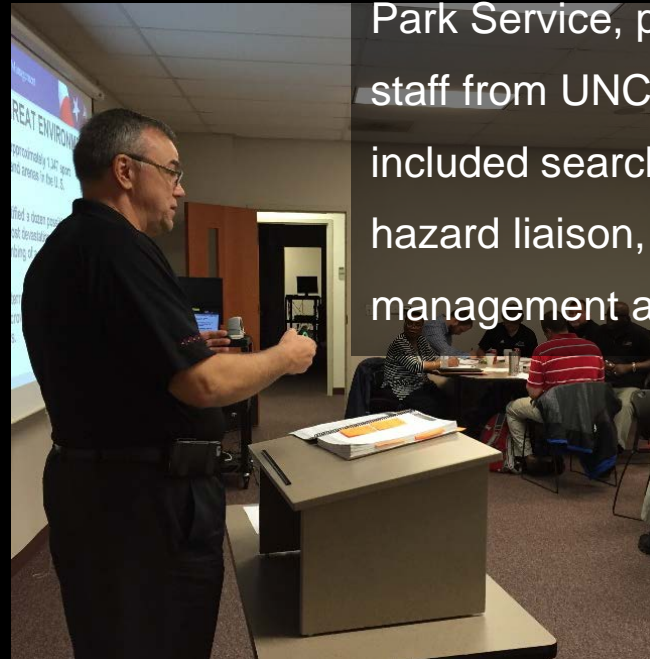
EBO Training Week

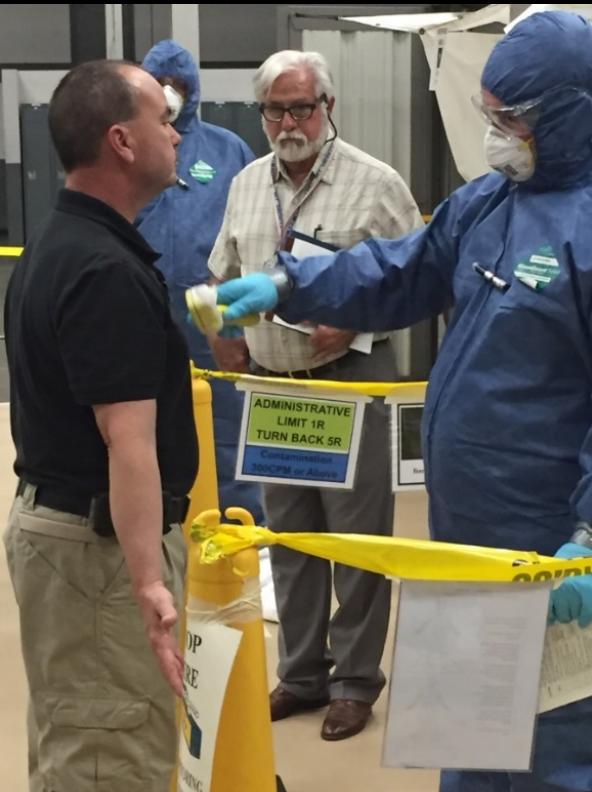


170+ emergency managers, law enforcement and first responders participated in the Eastern Branch Office training week. Participating agencies included county and state EM, State Highway Patrol, National



Park Service, police and university staff from UNC & ECU. Courses included search and rescue, all hazard liaison, sporting event risk management and more. ~ April 24-27





Harris Nuclear Drill

NCEM, Duke Energy, Chatham, Harnett, Lee and Wake counties tested their coordinated response to a radiological incident at the Harris Nuclear Plant. The federally-required exercise involves testing various aspects of response over a multi-week period. ~ April 26

Eden Tornadoes

A tornado swept through Rockingham County damaging buildings and toppling trees and buildings. Gov. Cooper issued a state disaster declaration to help the city of Eden pay for emergency protective measures and debris clearing ~May 4-5

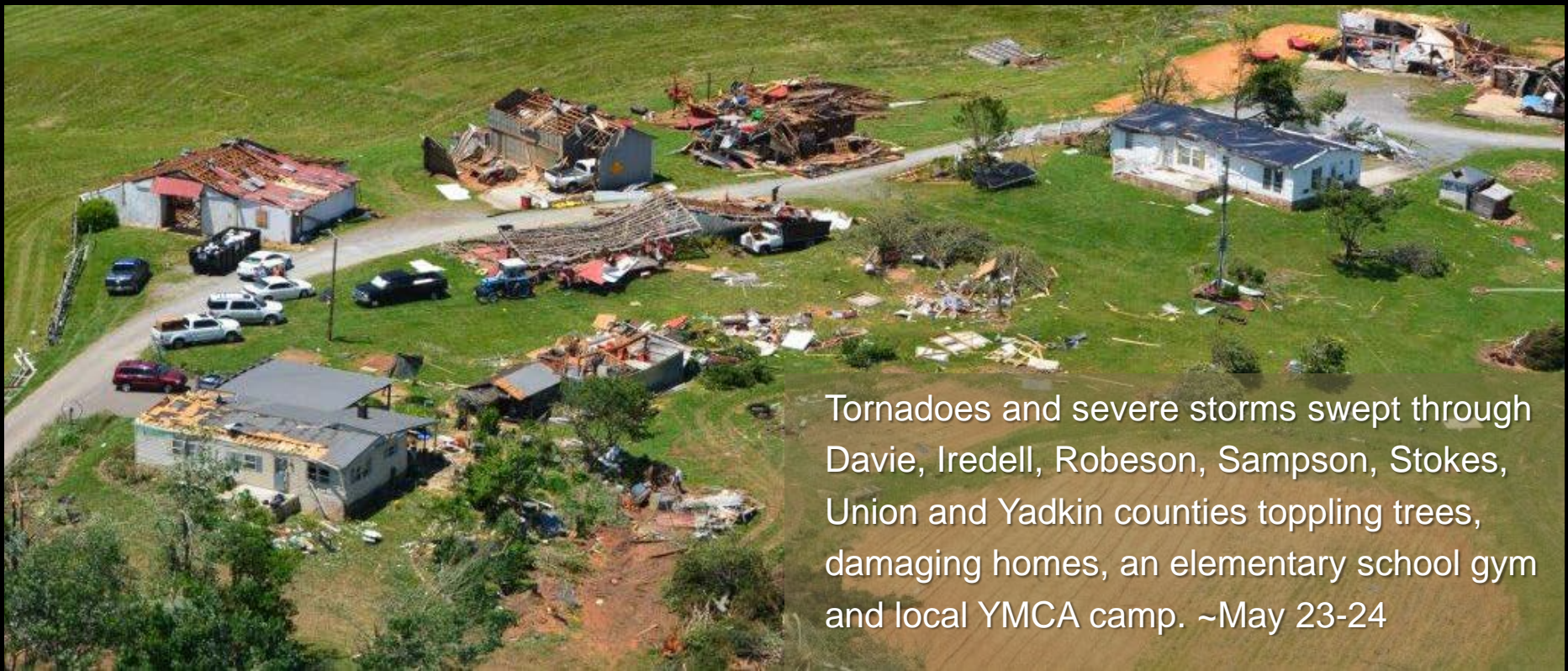


Preparing for Hurricanes

While still recovering from 2016's hurricane damage, NCEM worked with local leaders and the National Weather Service offices in the state to encourage North Carolinians to prepare for hurricanes and other storms. Two Hurricane Hunter aircraft drew record crowds of approximately 4,000 people to the RDU airport on May 10 to demonstrate the science of hurricane prediction.

~ May 7-13





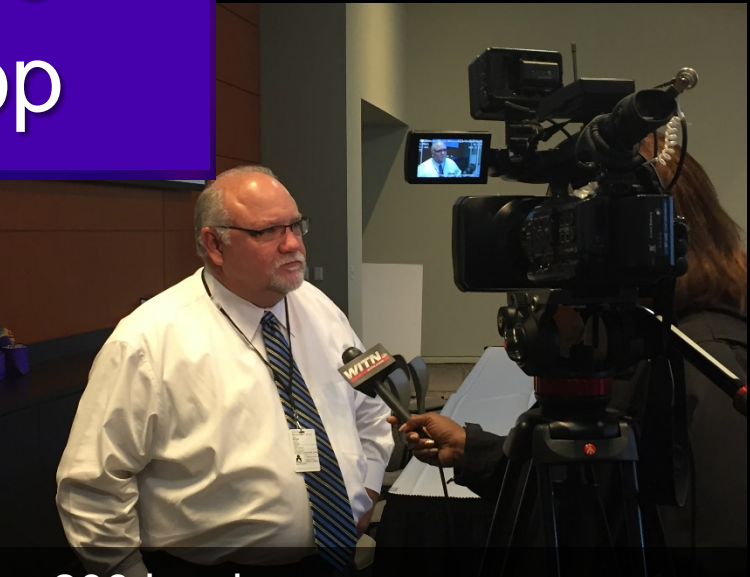
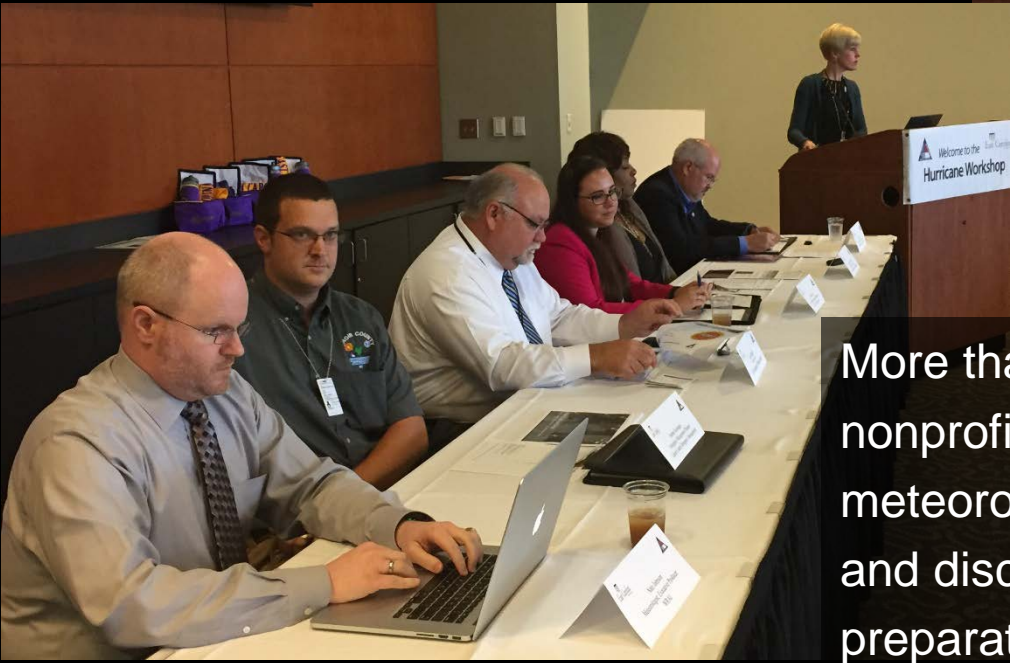
Tornadoes and severe storms swept through Davie, Iredell, Robeson, Sampson, Stokes, Union and Yadkin counties toppling trees, damaging homes, an elementary school gym and local YMCA camp. ~May 23-24

Piedmont Tornadoes





NCEM-ECU Hurricane Workshop



More than 200 local emergency managers, nonprofit representatives, military, meteorologists and educators met to review and discuss hurricane predictions, preparations and response. ~ May 24

Sampson Storms

Sampson and surrounding counties suffered damaging straight-line winds from severe thunderstorms. Gov. Cooper declared a state disaster declaration to help residents and business owners with funds to repair damaged or destroyed homes or businesses, clear downed trees and obstructed roads, and repair farm damage. ~May 30



Photo: WNCN



Photo: WNCN





DOD Summit

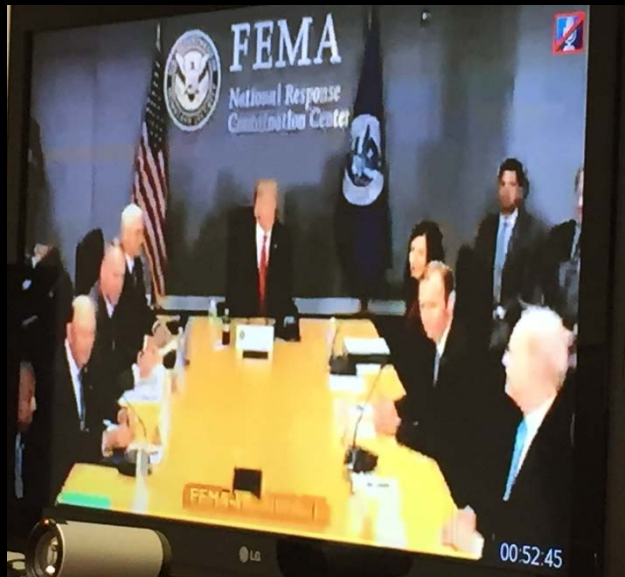
NCEM hosted the 10th annual meeting of officials from Department of Defense agencies and North Carolina's military installations, to discuss and review disaster response plans. ~ June 27



Preparing for Hurricane Season



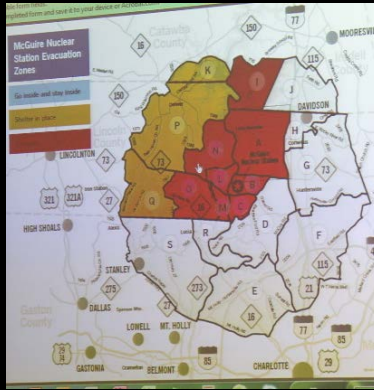
Governor Cooper, Secretary Hooks and other senior staff participated in a briefing with the President and FEMA on the state's readiness for the 2017 hurricane season. ~ August 4



Catawba, Gaston, Iredell, Lincoln & Mecklenburg counties, the state & Duke Energy, tested a coordinated response to a radiological incident as part of the required, federally-graded fixed nuclear facility exercise.

~ August 8

McGuire Nuclear Drill



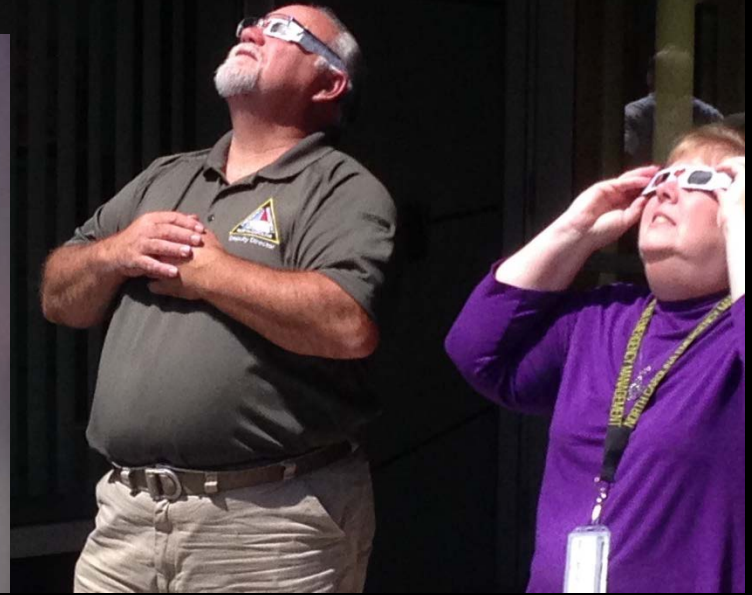


Civil Disturbances

Following violent protests by white supremacists and counter-protesters in Charlottesville, Va. similar groups began protesting in Asheboro, Charlotte, Chapel Hill, Durham and other North Carolina communities calling for removal of controversial historic monuments. NCEM coordinated with impacted counties and law enforcement agencies to prepare for the potential of unruly demonstrations. ~ mid-August



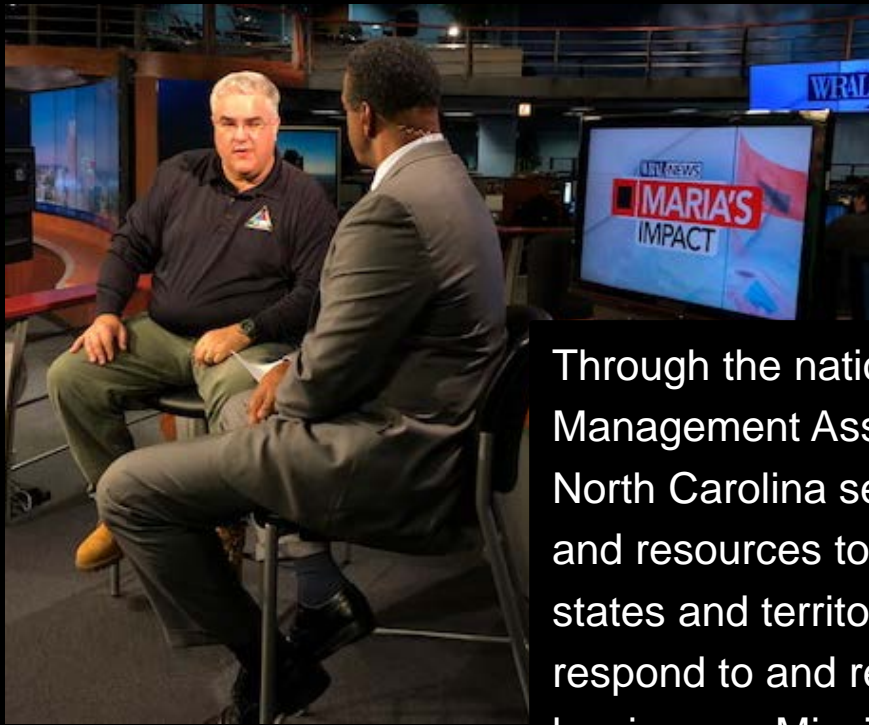
Solar Eclipse



For the first time in a century, a total solar eclipse spread across the continental U.S. While most areas experienced a partial eclipse, seven NC counties were in the path of totality. With estimated population surges of 15,000 – 60,000 in an isolated area, the impacted counties and NCEM began planning 18 months in advance for potential emergencies . ~ August 21



Supporting Others Through EMAC



Through the national Emergency Management Assistance Compact, North Carolina sent numerous teams and resources to help neighboring states and territories prepare for, respond to and recover from deadly hurricanes. Missions included:

- ✓ Evacuating a medical center
- ✓ Providing mobile hospital
- ✓ Sending agricultural support
- ✓ Sending swift water and helicopter rescue teams
- ✓ Providing EOC support teams
- ✓ Providing AHIMT overhead teams
- ✓ Staffing the national EMAC center





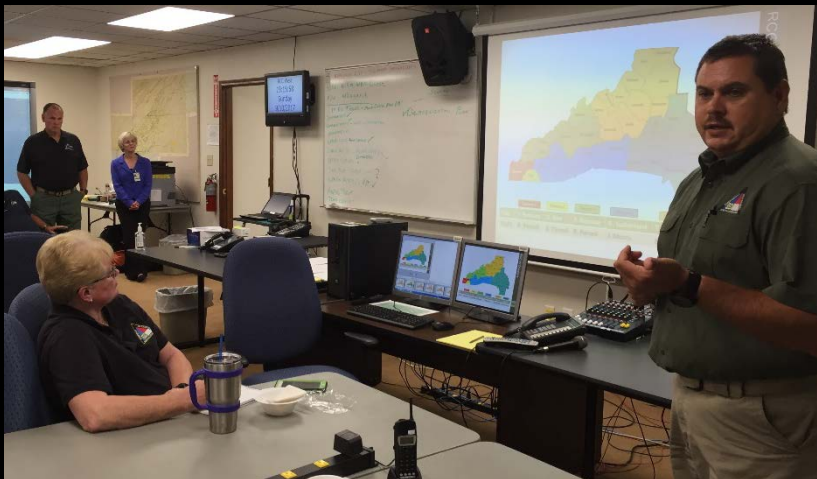
Hurricane Harvey Help

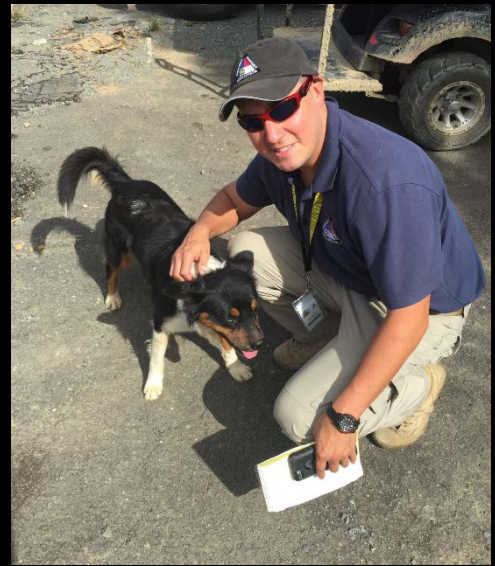
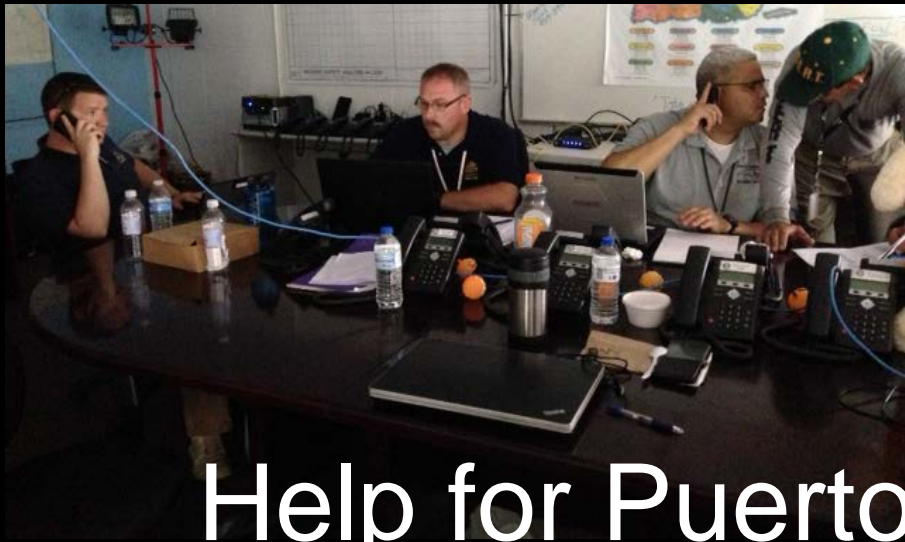
The state sent 2 NCHART teams and 5 swiftwater rescue teams to Texas via EMAC to help rescue people in the wake of Hurricane Harvey. HART crews rescued 25+ people in the Beaumont, Orange and Liberty areas of Texas. The SWR crews provided backup support for Texas and completed training while awaiting assignments before returning home to prepare for hurricanes in North Carolina. ~ Aug 28 - Sept. 4



Hurricane Irma

The NCEOC activated to prepare for the strongest Atlantic storm ever recorded. The Texas-size Cat.5 hurricane devastated Florida and the Caribbean but mostly spared NC. Impacts included 2-4" of rain for western and southeastern counties with up to 7" in a few spots, downed trees, blocked roads and 75,000 power outages. 5 shelters were opened to support evacuees from other states. RCC-East staff shifted west to support RCC-West as Irma's forecast track changed. Sept. 8-12





Help for Puerto Rico

NCEM sent multiple resources to help Puerto Rico recover after Hurricanes Maria and Irma. A 4-person animal care incident management team assessed livestock & poultry operations, established staging areas for animal feed and distributed pet food to 45 communities. Ten state/local emergency managers provided support to regional emergency operations. ~ Oct - Dec





Help for Puerto Rico





Training All Hazards Incident Management Teams



Emergency managers and first responders from across North Carolina attended the O-305 AHIMT Class. NCEM instructors lead attendees through an in-depth review of how an incident action plan is developed using ICS principles. They followed with a tabletop exercise. ~ Sept & Oct.

TD Nate

Remnants of Hurricane Nate moved through western North Carolina as a tropical depression bringing 3-6 inches of rain to some of the mountains with up to 10 inches in some spots. The storm caused power outages, damaged homes and closed roads. ~ Oct. 8



Tornadoes in WNC

Severe storms moved through the foothills devastating a regional airport, damaging dozens of homes, toppling trees, closing roads and leaving 92,000+ homes without power. Several school systems were closed or delayed. A mudslide in Henderson County closed a portion of the road and straight line winds destroyed a hangar and overturned cars at the Hickory Regional Airport. Gov. Cooper declared a state disaster declaration for Watauga Co. and NCEM opened three recover centers to help individuals recover. ~ Oct. 23



Recovering from Hurricane Matthew



- 50 counties approved IA & PA (5 for PA only)
- 39 Disaster Recovery Centers helped 29,675 visitors



- Joint Field Office opened Oct. 2016 – Oct. 2017
- At peak, 1,400+ FEMA/SBA staff working disaster





\$98 M+ in grants
to help survivors replace personal belongings



\$195.5 M in NFIP funds
to pay nearly 5,800 flood claims



\$102.5 M+ in SBA loans
to 2,700+ homeowners or business
owners for repairs & reconstruction



\$391 M+ anticipated funds
to repair or replace public infrastructure

Helping Families Recover

Local, state and federal emergency management agencies partnered with non-profit organizations and private companies to help people recover.

- ✓ 81,979 North Carolinians registered with FEMA for disaster aid
- ✓ \$591,236 in Disaster Unemployment Insurance helped 1,322 who lost their jobs
- ✓ 62,500 damaged homes inspected by FEMA



Hurricane Matthew Housing Assistance



Hurricane Matthew highlighted the shortage of affordable housing in many eastern North Carolina communities. State and local officials continue working to provide long-term solutions for disaster-resilient housing. Meanwhile, a variety of programs helped families find safe shelter.

- 62,500+ housing inspections completed
- 3,101 families lived in hotels (FEMA/NCEM TSA program) until their homes were repaired. The last moved out Dec. 4
- 161 Modular Home Units installed to temporarily house families while they repair their homes.
- 45,000 estimated volunteers worked 430,000 hours to repair & rebuild homes



Building Flood Resistant Housing



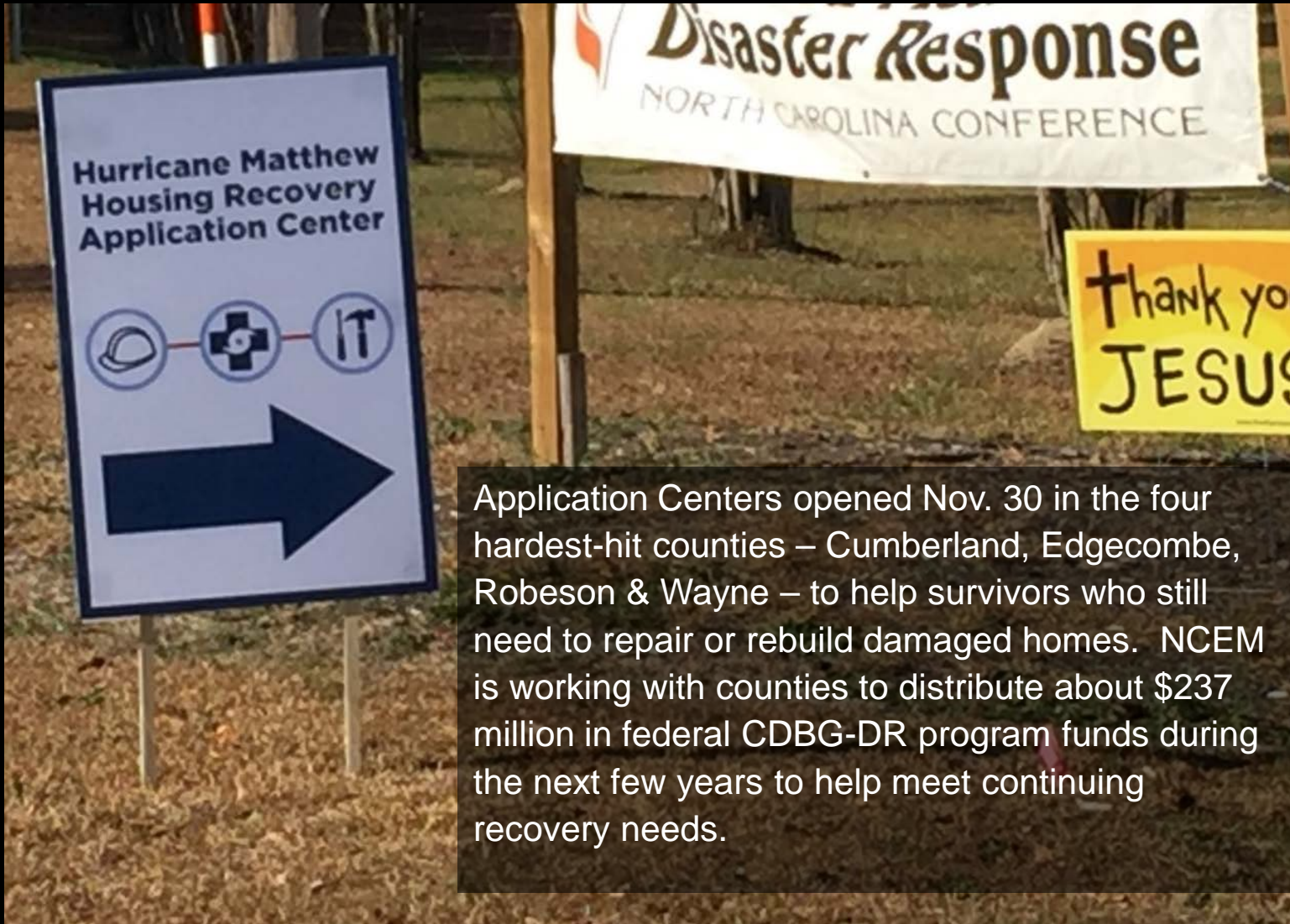
Hazard Mitigation Grant Program funds will be used to help qualified homeowners reduce the likelihood of future storm damage by elevating, relocating or reconstructing homes currently in a floodplain. Nearly 3,000 homeowners qualified for the program. An estimated \$100 million in current funding will help 800 homeowners. State leaders continue to seek additional funding from the General Assembly and Congress to expand this program.

Hurricane Matthew CDBG-DR Program

In August, HUD approved North Carolina's action plan for the Community Development Block Grant – Disaster Relief funds thus enabling the state to start funding individual local projects. CDBG-DR funds will especially help with affordable housing and economic development.



Hurricane Matthew Housing Recovery Application Centers



Application Centers opened Nov. 30 in the four hardest-hit counties – Cumberland, Edgecombe, Robeson & Wayne – to help survivors who still need to repair or rebuild damaged homes. NCEM is working with counties to distribute about \$237 million in federal CDBG-DR program funds during the next few years to help meet continuing recovery needs.

Rebuilding Communities

It will take an estimated \$391+ million to help repair and replace public infrastructure, clear debris, provide emergency services, and repair bridges and roads. More than \$260 million in FEMA Public Assistance money has been approved so far to fund nearly 1,900 local projects. Funding to date includes:

- \$55.2 million for emergency protective measures
- \$39.6 million to remove debris
- \$43.5 million to repair roads and bridges
- \$17.6 million to fix public water and sewer facilities
- \$31.3 million to fix public buildings (schools, fire, police, etc.)
- \$44.5 million to repair public utilities
- \$29.9 million to repair local parks / recreational facilities

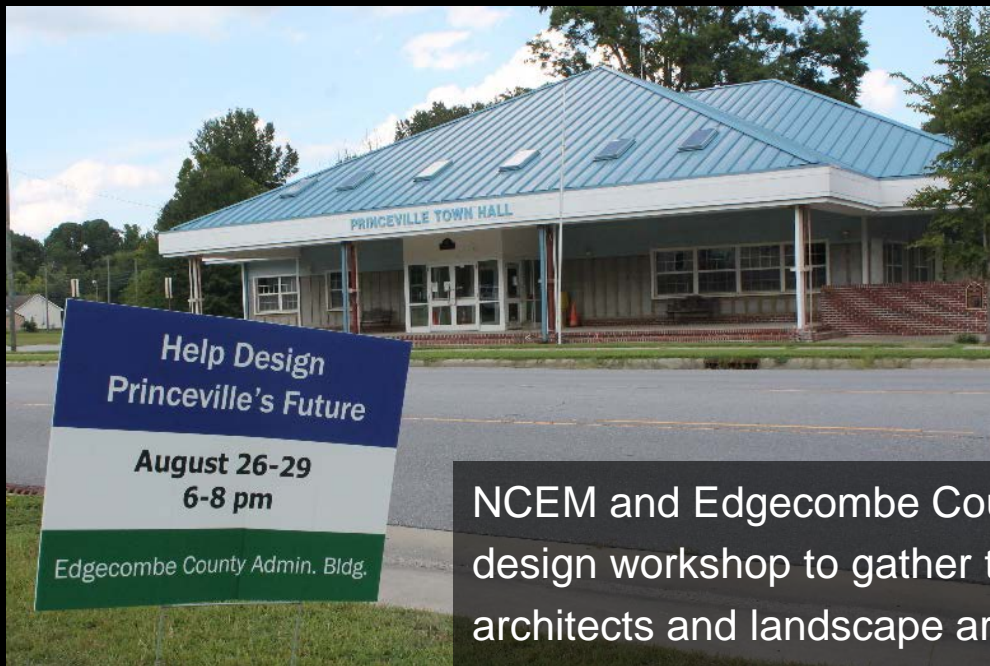


Improving Community Resilience

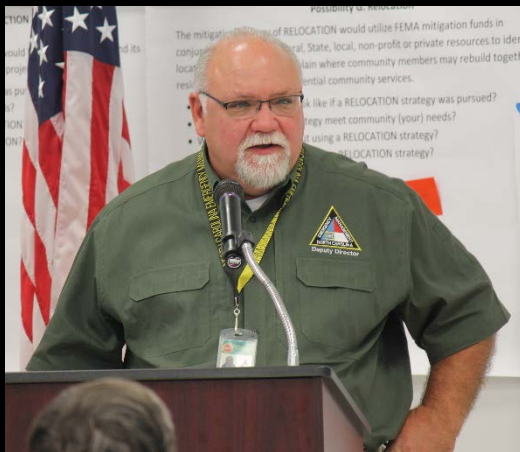
In the Disaster Recovery Act of 2016, North Carolina leaders directed \$200 million to help six of the hardest-hit communities - Fair Bluff, Kinston, Lumberton, Princeville, Seven Springs and Windsor - identify ways to minimize future storm impacts. Experts from UNC-CH and NCSU worked with communities to develop plans that improve resiliency.



Princeville Design Workshop

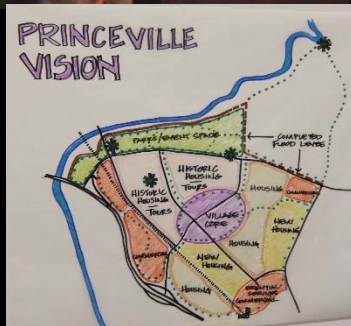


NCEM and Edgecombe County leaders hosted a 5-day community design workshop to gather teams of land use planners, engineers, architects and landscape architects to develop three scenarios for a new 52-acre tract of land. The one-of-a-kind collaborative effort amongst government agencies, universities and subject matter experts will protect one of nation's most significant towns. ~ Aug. 25 - 29





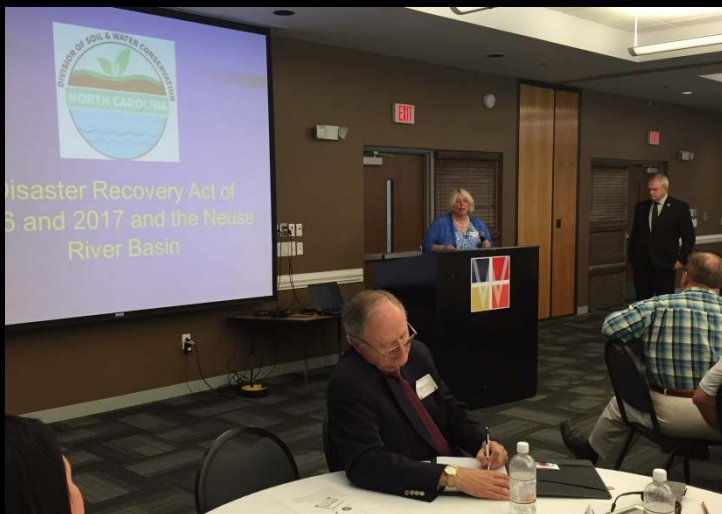
The new parcel of annexed land will include more disaster-resilient housing, businesses, public facilities and community open space that still connect with the historic community of Princeville. ~ Aug. 25 - 29



Improving Flood Plain Management



Experts working with N.C. Department of Transportation, N.C. Emergency Management, East Carolina University and N.C. State are also currently conducting intensive studies of flood basins that caused severe damage in Matthew. These studies of the Neuse, Tar, Lumber and Cashie river basins will help local and state leaders better understand the flooding that happened and identify targeted flood counter measures to reduce future risk.



Resiliency Section

NCEM established a Resiliency Section in 2017, in an effort to help communities rebuild in a more resilient manner, so they fare better in future disasters and recover more quickly. Headed by Nick Burk, the section includes Hazard Mitigation and CDBG-DR programs.





Civil Air Patrol



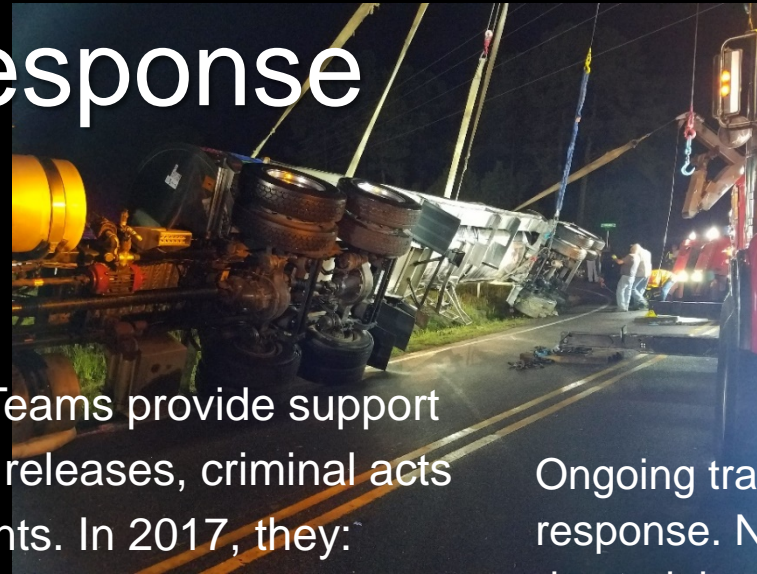
The North Carolina Wing of the Civil Air Patrol experienced significant changes in 2017. Long-time assistant director Andy Wiggs passed unexpectedly in July, CAP director Col. Lucy Davis retired in October and Ben Watkins began as the new director in November.

Current membership in the NC Wing stands at 963 cadets and 875 seniors.





HazMat Response & Training



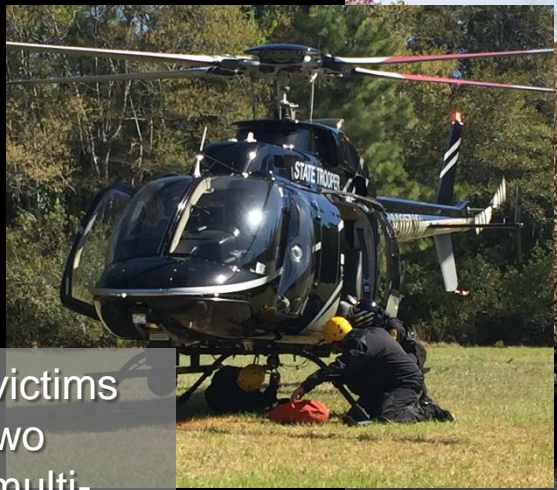
NC Regional Response Teams provide support to locals during chemical releases, criminal acts and transportation incidents. In 2017, they:

- Responded to 27 state hazmat missions
- Handled nearly 300 local missions
- Conducted 54 outreach & training missions
- Provided technical advice to locals

Ongoing training is key to successful response. NCRRT-4 Raleigh hosted a 4-day training on propane emergencies; all 7 regional teams participated. NCRRT-1 Williamston placed first in the hazmat challenge at the international fire rescue conference.



NC HART combines aviation assets from NCNG & SHP using 3 platforms (NCNG's Blackhawk & Lakota and the Patrol's Bell 407). Each platform trains monthly with qualified rescue technicians from local fire and rescue agencies. Onslow County training in April incorporated U.S. Coast Guard crews in HART training for the first time and shared best practices.

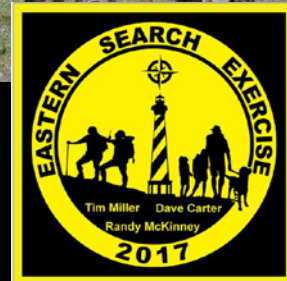


In 2017, NCHART crews rescued 25 victims in Texas after Hurricane Harvey and two stranded hikers in NC. Conducted a multi-week standby in Feb. for US Forest Service.

Search & Rescue Training

More than 500 responders trained with NCEM on various types of SAR operations including:

- Three wilderness search classes
- 5 winter & summer mountain search classes
- Dupont Rescue Experience & Eastern Search Exercise
- Monthly training across 3 HART airframes
- 36 trained in new swift water boat operators course



Higgins & Langley Award

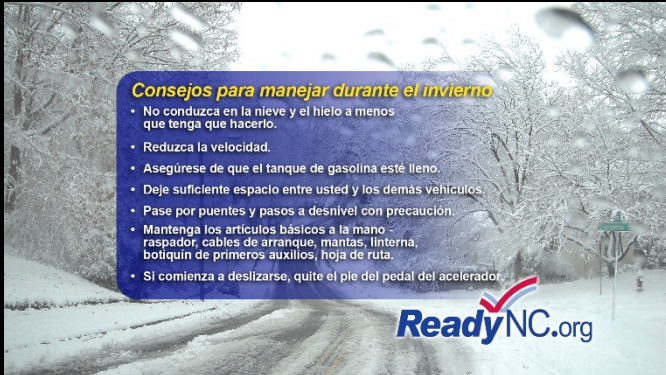
North Carolina's coordinated search and rescue response to Hurricane Matthew was recognized in September with the prestigious Higgins & Langley Memorial Award for Excellence in Swift Water Rescue. Governor Cooper later declared Search and Rescue Day in North Carolina and recognized the teams that worked during Hurricane Matthew with an event at the Executive Mansion.



Preparing Communities

NC 2-1-1 can help you find assistance in a disaster.

Dial 2-1-1 or
1-888-892-1162



NCEM led four campaigns to prepare North Carolinians for various types of severe weather including tornadoes, hurricanes, snow and ice. Materials were sent to county emergency management agencies, schools, local health departments, Latino partners and state agencies as well as pushed across social media platforms.

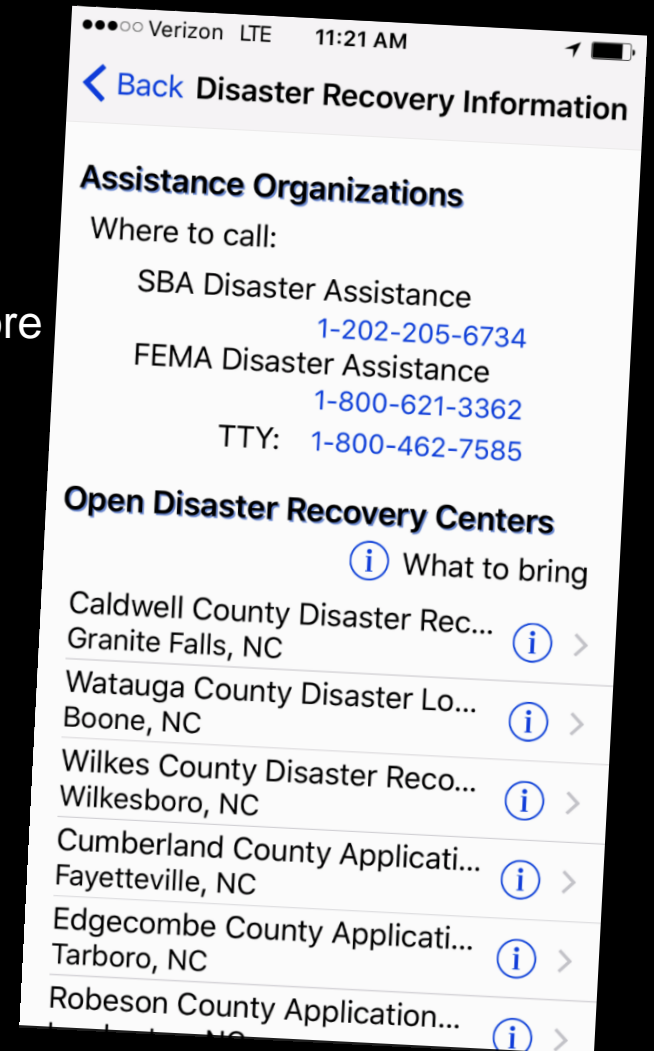


ReadyNC App



More than 60,000 new users downloaded the ReadyNC mobile app in 2017 for the latest traffic, flooding and recovery assistance information. The app has more than **169,500+ users.**

In 2017, the app was updated to provide more details about disaster recovery centers.



Storm Ready Initiative

Storm Ready

- ✓ 74 counties
- ✓ 7 universities
- ✓ 9 communities
- ✓ 5 military sites
- ✓ 2 commercial sites

NCEM and NWS are working to encourage all counties to be certified StormReady by:

- Establishing a warning point & EOC
- Having multiple ways to get weather warnings
- Creating a system to monitor local weather
- Promoting emergency preparedness
- Developing a hazardous weather plan

Tsunami Ready

- ✓ 5 counties
- ✓ 2 communities
- ✓ 1 military site



Providing Essential Training

NCEM sponsored 457 classes training more than 8,500 personnel on topics such as: CERT, search and rescue, disaster response and recovery; sheltering; hazardous materials; active assailant; damage assessment; public information and radiological emergency preparedness.




Partnering with the Private Sector



In its third year, NCEM's private sector program added 75 partners for a total of 340 businesses engaged with the state during disaster response. Industries that work with NCEM in disaster response and recovery range from banking, retail, grocery, communications and more. More than two dozen partners joined NCEM for a one-day exercise to practice capabilities. ~ Nov. 2





Initially designed as a school safety tool, the State Emergency Response Application has now grown to include plans for schools, universities, community colleges, public buildings and is currently expanding to include state prisons. A web-based planning tool to help all these public facilities efficiently plan for all hazards. The emergency response application gives law enforcement and first responders detailed information to more effectively respond to emergencies at participating public facilities.

State Emergency Response Application



North Carolina has 83 Community Emergency Response Teams. More than 400 new members completed CERT basic training in 2017, along with 127 completing point of distribution training. CERT teams activated during the Hatteras Island power outage and assisted during Hurricane Irma at the state EOC. Highlights for 2017 included the annual statewide CERT conference in Morganton and the CERTEX skills test in Raleigh in July.

CERT Training



Emergency Preparedness Initiative



- In its fourth and final year, the EPI-IDD program:
- Expanded its network of disability partners
 - Included people with disabilities in exercises
 - Shared and reinforced person-first language
 - Printed 1,500 more Show Me tools
 - Corresponded with Pharmacy Board on process changes to help people with disabilities get prescription refills during declared disasters



SERC Meetings

The State Emergency Response Commission met four times this year to review, assess, plan and implement projects and procedures to protect North Carolina residents and the environment through effective emergency planning. Topics included: Solar Eclipse preparation, 2018 World Equestrian Games, GenX response, civil disturbances, Hurricane Matthew recovery and more.

