



North Carolina
Voluntary Organizations
Active in Disaster

COOPERATION | COMMUNICATION | COORDINATION | COLLABORATION

NC VOAD

Hurricane Exercise

High Point, NC
April 21, 2015

Purpose & Outcomes

- Evaluate the capability of NC VOAD and its member organizations to:
 - **Collaborate** during a major hurricane event
 - **Coordinate** long term recovery activities
 - **Communicate** activities & needs
 - Enhance the **cooperation** between member organizations

Exercise Guidelines

- This is an open, low-stress, no-fault environment
- Recovery activities are based on knowledge of current plans
- Decisions are not precedent setting and may not reflect your organization's final position on a given issue

It Is Early October

- A tropical wave moved off the coast of South America
- Deemed a hurricane, 74 mph winds, on October 6
- **Hurricane Shirley** moved westward and intensified from October 6 to October 9 in the Caribbean Sea without directly striking any land

Hurricane Shirley





Hurricane Shirley

-96 Hours

Legend



Geospatial Technology

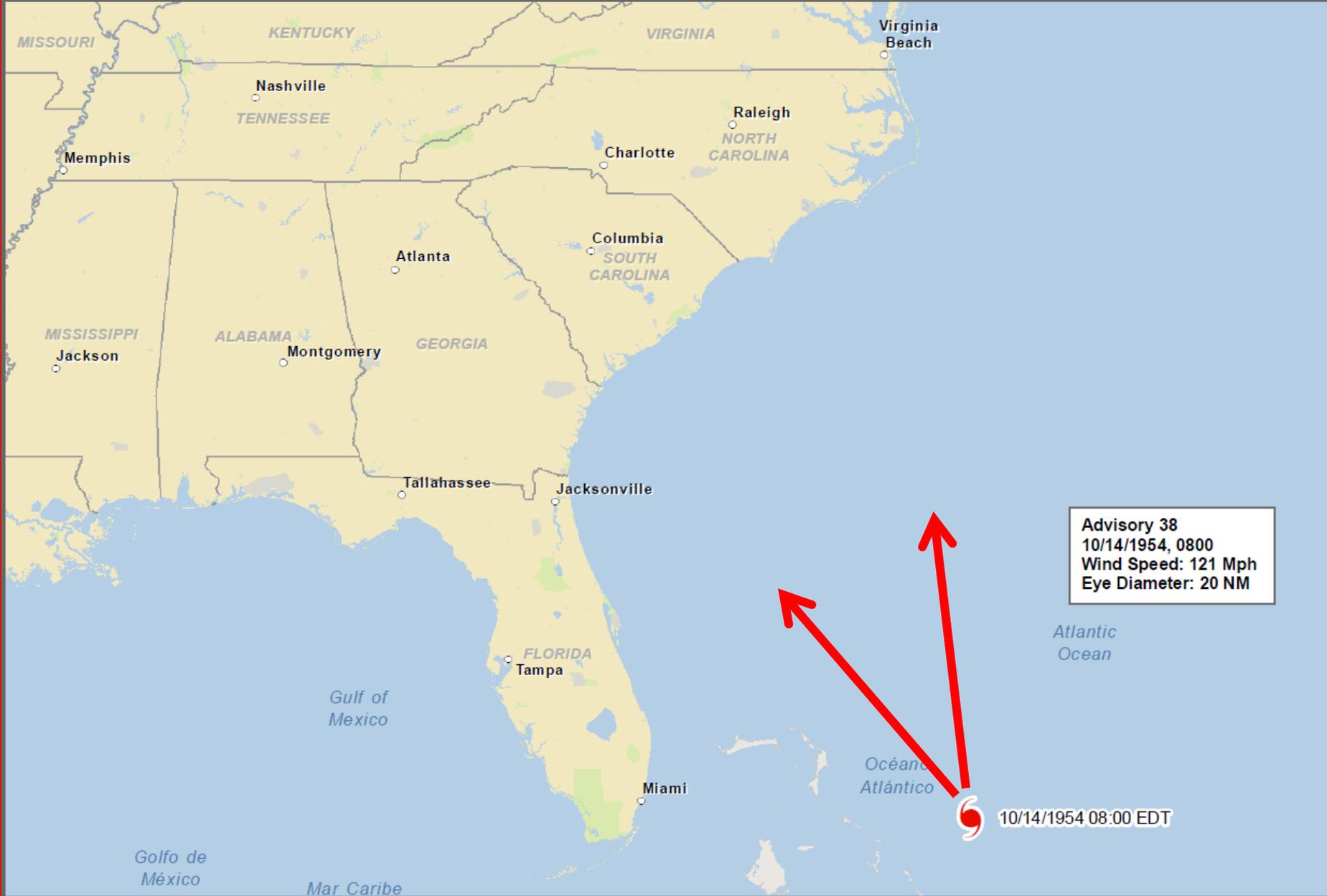
Map Created: May 30, 2014

Source: NOAA, NHC, HURRTRAK



October 13th - 48 Hours

- **Actions**
 - **Local**
 - **State**
 - **Federal**
 - **Member organizations**
 - **NC VOAD**



Hurricane Shirley

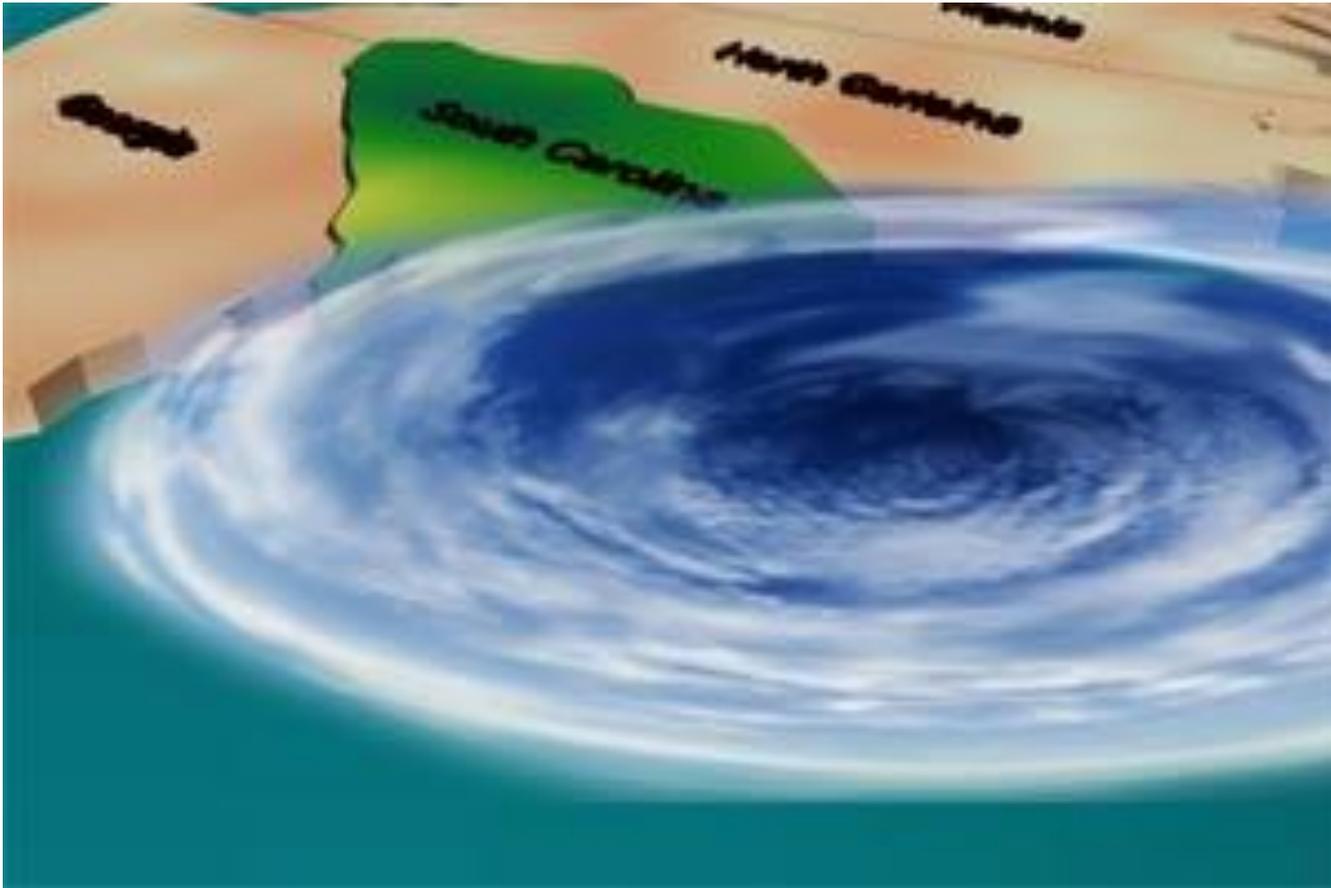
-24 Hours

Legend

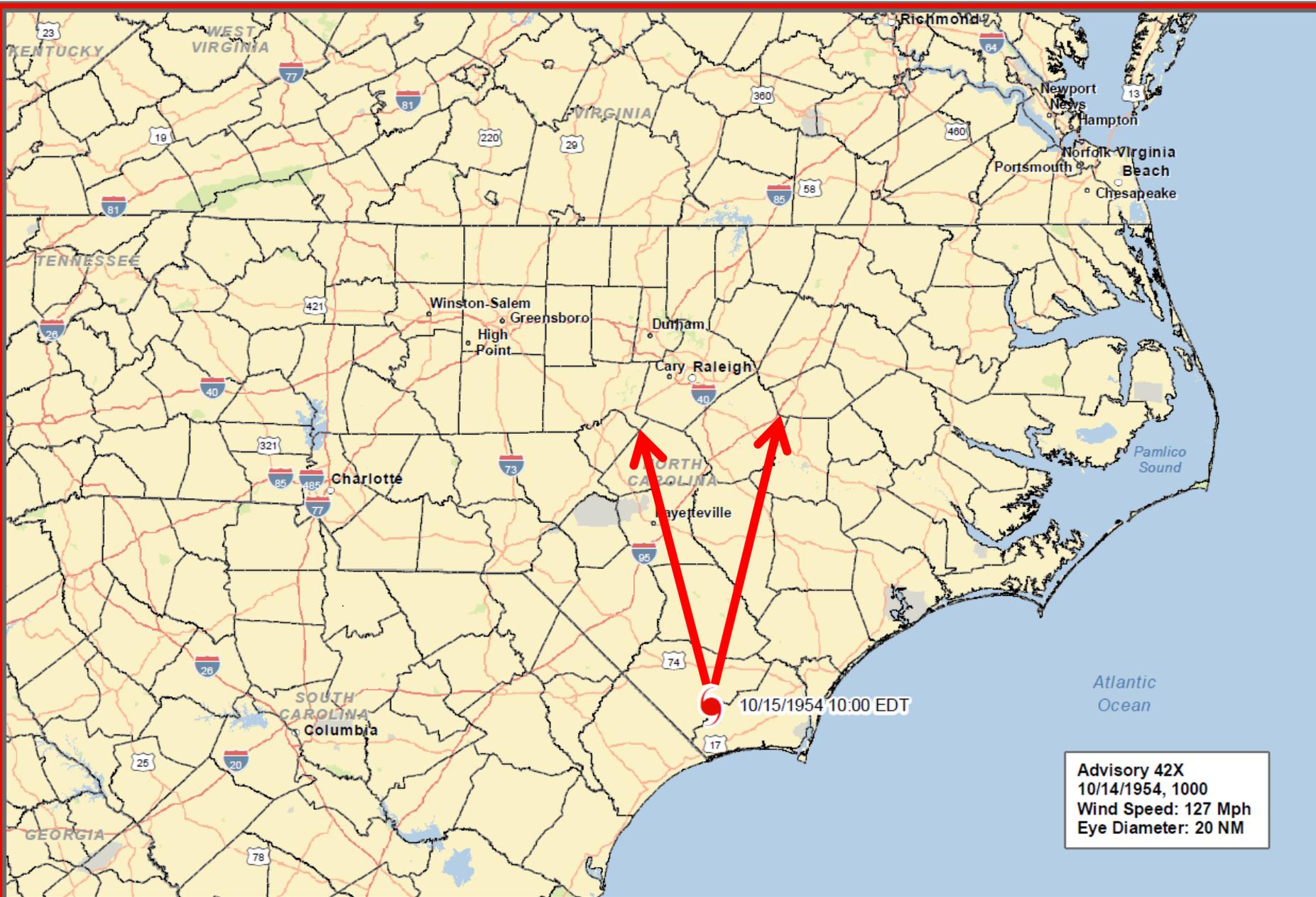


Geospatial Technology
 Map Created: May 30, 2014
 Source: NOAA, NHC, HURRTRAK

October 14th – 24 Hours



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Advisory 42X
 10/14/1954, 1000
 Wind Speed: 127 Mph
 Eye Diameter: 20 NM



Hurricane Shirley

Landfall

Legend

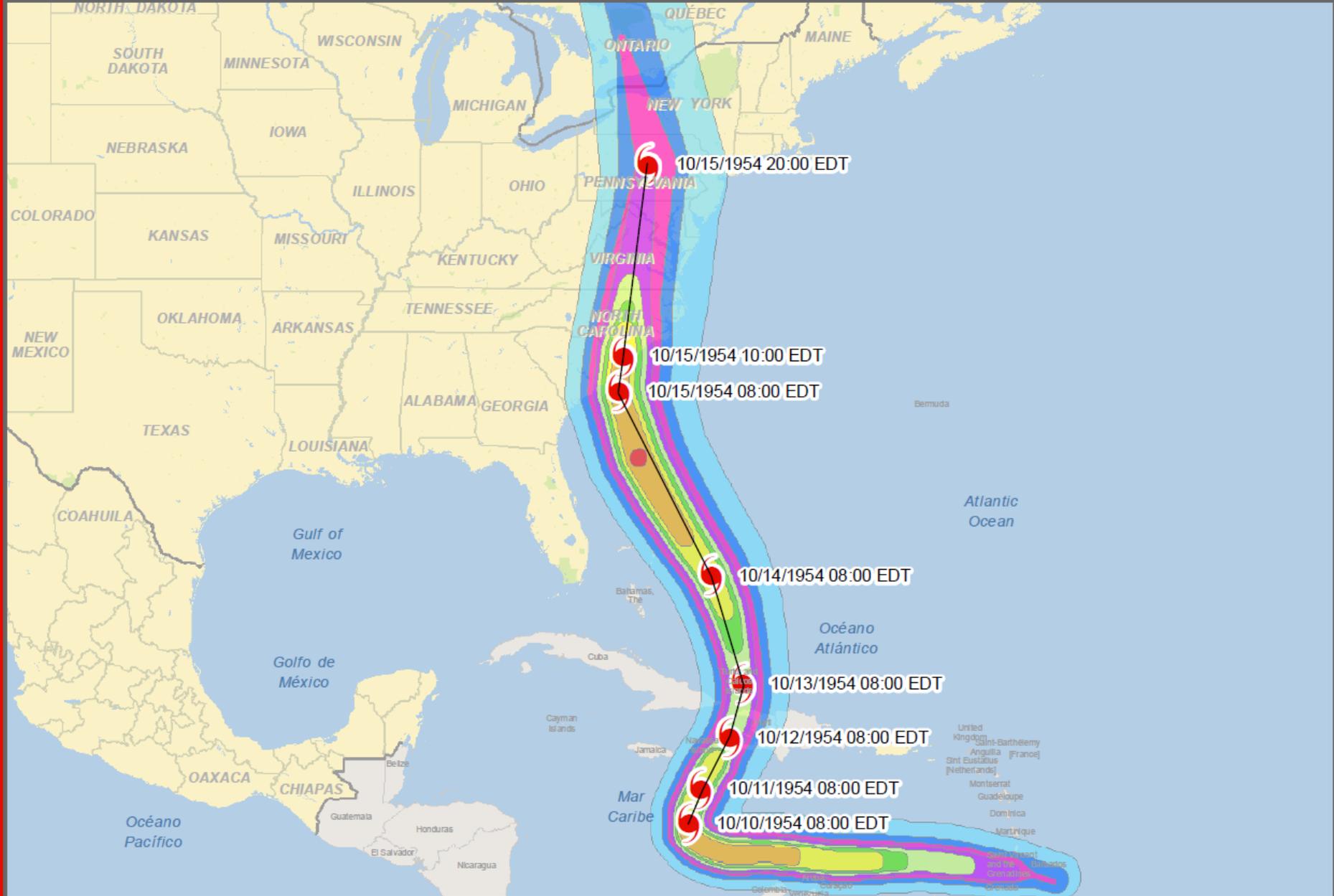
 Advisory 42X

 Potential Forecast Direction

Geospatial Technology
 Map Created: May 30, 2014
 Source: NOAA, NHC, HURRTRAK


Impact

- Shirley made landfall as a Category 3 hurricane near Calabash, North Carolina
- Storm surge of over 9 feet producing severe coastal damage
- Brunswick County, NC, suffered the heaviest damage
- Heavy rainfall caused flooding in parts of Catawba, Lincoln and Cleveland Counties
- Trees down and power outages throughout NC



Hurricane Shirley

Wind Bands & Positions Locations

Legend

Position Locations	Wind Speed MPH
	46
	58
	69
	81
	92
	104
	115
	127
	138

Geospatial Technology
 Map Created: May 30, 2014
 Source: NOAA, NHC, HURRTRAK


Impact

- Raleigh-Durham Airport gusts of 90 mph were recorded
- In Kinston and Goldsboro, wind gusts were estimated to have reached 120 mph

Affected Homes	3,500
Major and Destroyed	700
People Needing Shelter	500
Days of Sheltering	3-5
Power Outages % of impact area	80%
Hotel Occupancy	90%

October 16th + 24 Hours

- **Actions**
 - **Local**
 - **State**
 - **Federal**
 - **Member organizations**
 - **NC VOAD**

October 19th Day 4

- **Actions**
 - **Local**
 - **State**
 - **Federal**
 - **Member organizations**
 - **NC VOAD**

October 22th Week 1

- **Actions**
 - **Local**
 - **State**
 - **Federal**
 - **Member organizations**
 - **NC VOAD**

October 29th Week 2

- **Actions**
 - **Local**
 - **State**
 - **Federal**
 - **Member organizations**
 - **NC VOAD**

November 15th Month 1

- **Actions**
 - **Local**
 - **State**
 - **Federal**
 - **Member organizations**
 - **NC VOAD**

December 15th Month 2

- **Actions**
 - **Local**
 - **State**
 - **Federal**
 - **Member organizations**
 - **NC VOAD**

January 15th Month 3

- **Actions**
 - **Local**
 - **State**
 - **Federal**
 - **Member organizations**
 - **NC VOAD**

April 15th Month 6

- **Actions**
 - **Local**
 - **State**
 - **Federal**
 - **Member organizations**
 - **NC VOAD**

Hazel 1954

- Hazel made landfall as a Category 4 hurricane near Calabash, North Carolina
- Storm surge of over 18 feet producing severe coastal damage; the damage was greater since the hurricane coincided with the highest lunar tide of the year
- Brunswick County, NC, suffered the heaviest damage, where most coastal dwellings were either completely destroyed or severely damaged

Hazel 1954

- About 80% of waterfront dwellings in Myrtle Beach were destroyed
- Raleigh-Durham Airport gusts of 90 mph were recorded
- In Kinston and Goldsboro, wind gusts were estimated to have reached 120 mph
- 19 people killed in North Carolina, with several hundred more injured
- 15,000 homes were destroyed and another 39,000 were damaged

Hazel



Hot Wash

Celebrate the unique successes of
the day



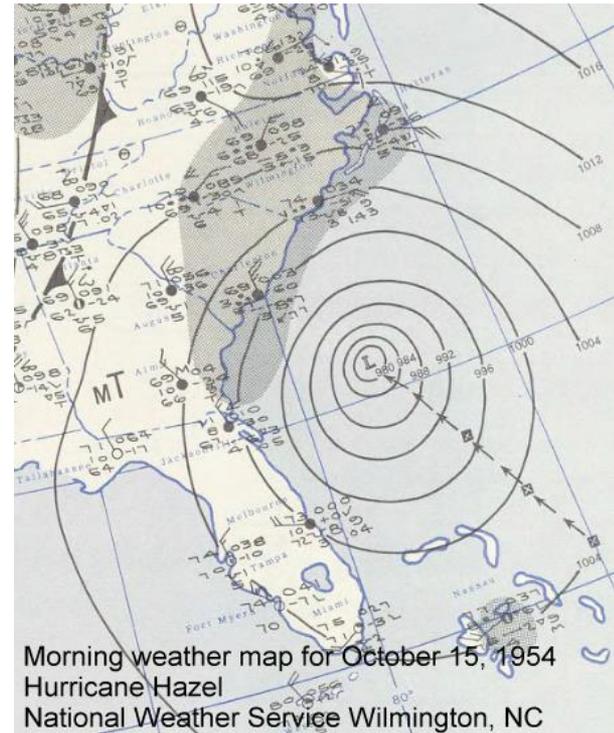
Hot Wash

Challenges and recommendations



Congratulations

Job well
done!



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