



# FEMA

## Daily Operations Briefing

Saturday, September 15, 2018

8:30 a.m. EDT

# Significant Activity – Sep 14-15



FEMA

**Significant Events:** Tropical Storm Florence

**Tropical Activity:**

- Atlantic – Tropical Storm Florence; Tropical Storm Helene; Tropical Storm Joyce; Remnants of Isaac;  
Disturbance 1: Low (10%)
- Eastern Pacific – Disturbance 1: High (80%)
- Central Pacific – No activity affecting U.S. interests
- Western Pacific – No activity affecting U.S. interests

**Significant Weather:**

- Strong to severe thunderstorms – southeast NC & extreme northeast SC
- Heavy rain with flooding/flash flooding & storm surge possible – Southern TX & the Carolinas to Mid-Atlantic
- Critical/Elevated/Extremely Critical fire weather – CA, OR, NV, AZ, UT, ID, CO, WY, & MT
- Red Flag Warnings – AZ, NV, UT, CO, WY, MT, & ID

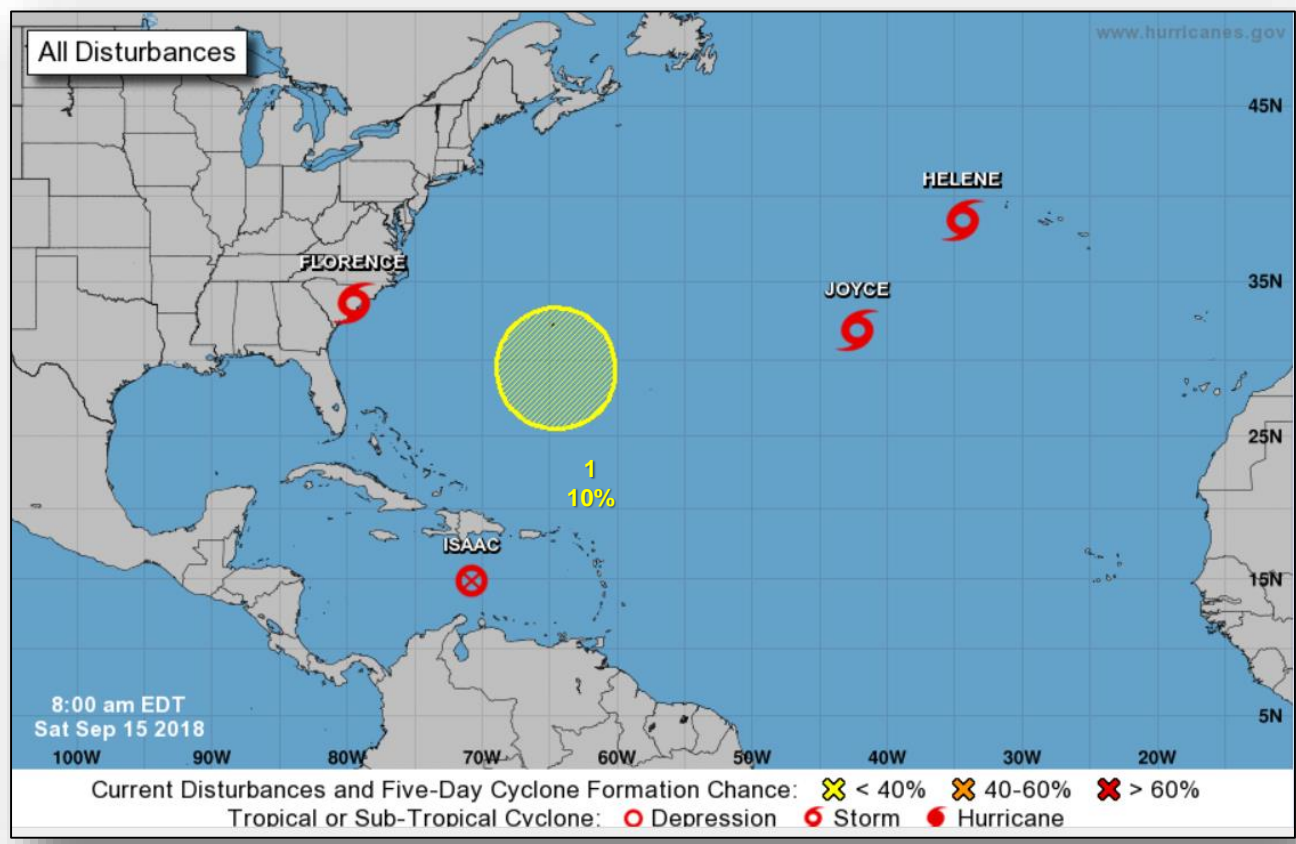
**Declaration Activity:**

- Major Disaster Declaration Approved – North Carolina
- Major Disaster Declaration Request – South Carolina
- Amendment No. 2 to FEMA-3399-EM-HI

# Tropical Outlook – Atlantic



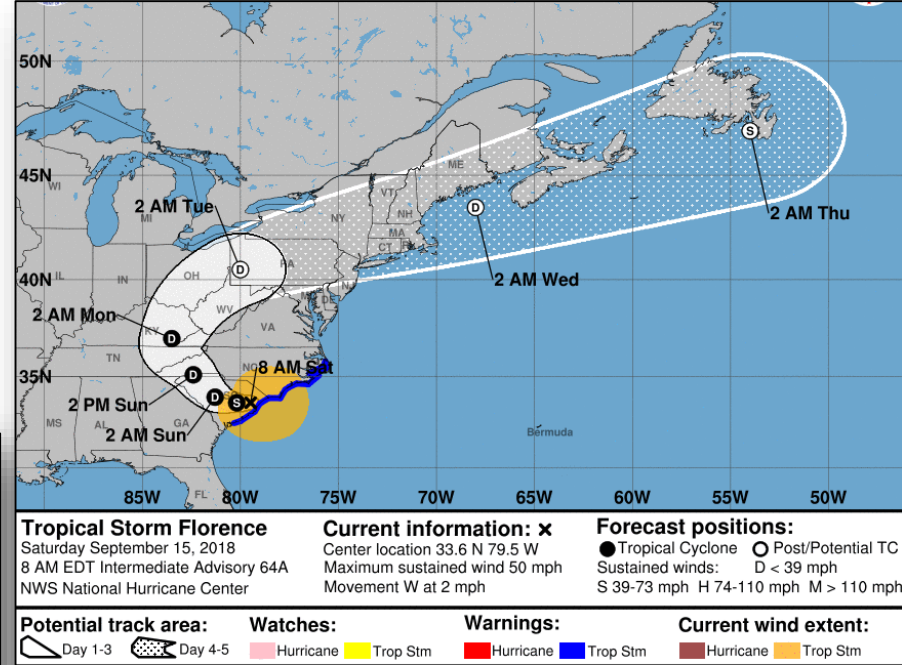
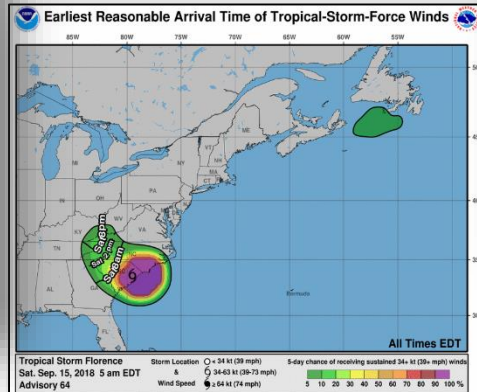
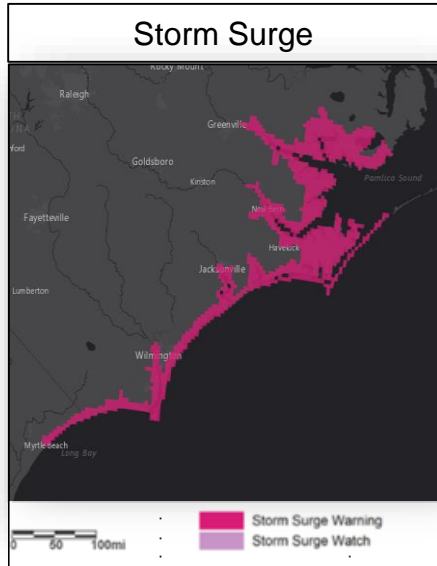
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# Tropical Storm Florence

## Tropical Storm Florence (Advisory #64A as of 8:00 a.m. EDT)

- Located 35 miles W of Myrtle Beach, SC
- Moving W at 2 mph
- Maximum sustained winds 50 mph
- Tropical-storm-force winds extend 175 miles

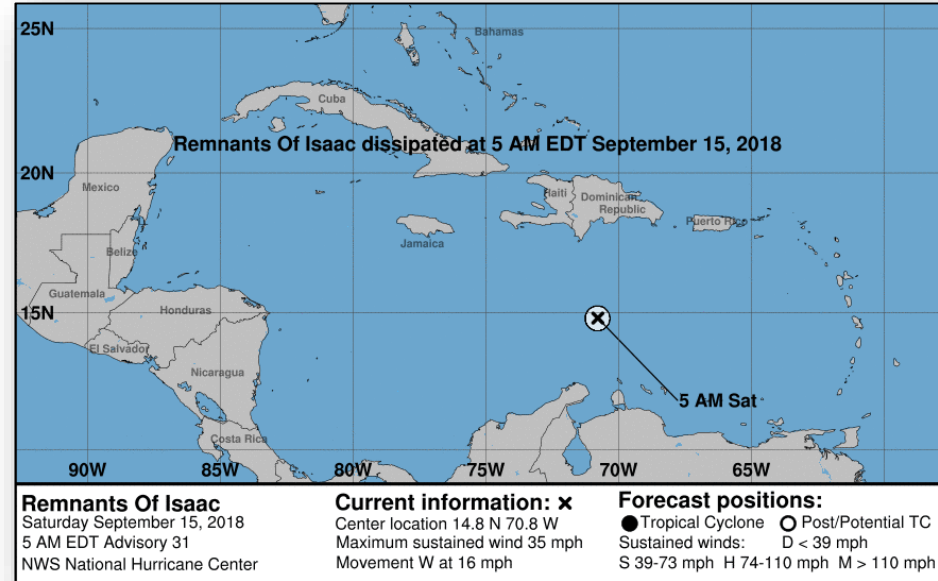


# Remnants of Isaac



## Remnants of Isaac (Advisory #31, as of 5:00 a.m. EDT)

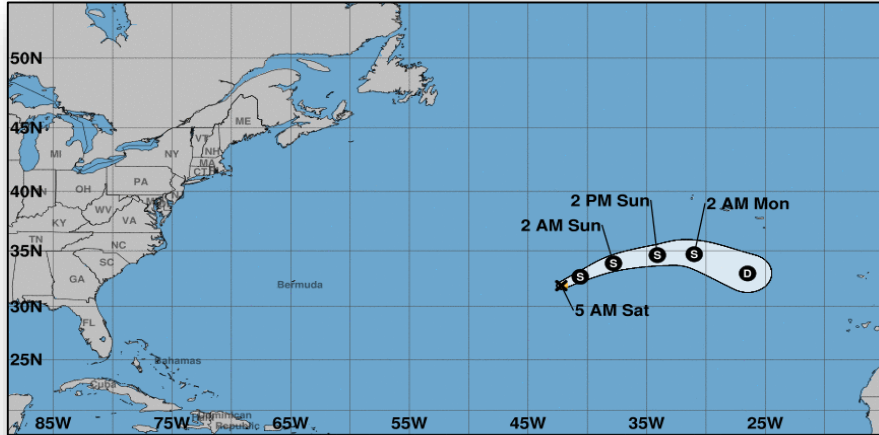
- Located 260 miles SSW of Santo Domingo, Dominican Republic
- Moving W at 15 mph
- Maximum sustained winds are 35 mph
- There are no coastal watches or warnings in effect



# Tropical Storm Helene & Joyce



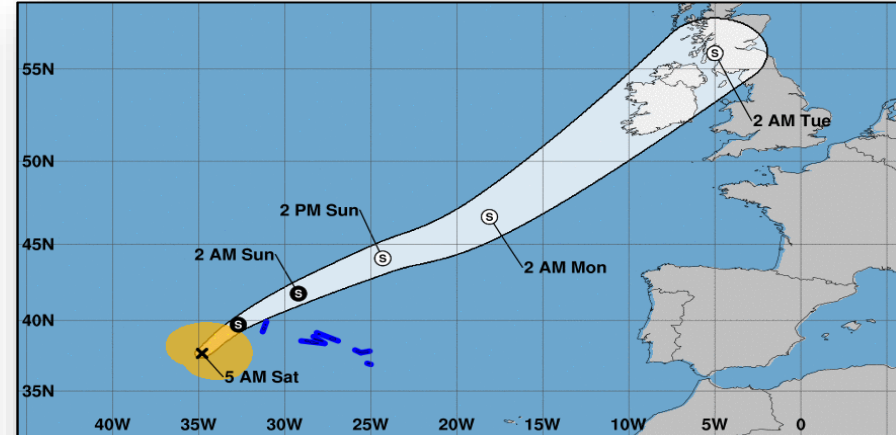
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<b>Tropical Storm Joyce</b> Saturday September 15, 2018 5 AM AST Advisory 11 NWS National Hurricane Center		<b>Current information: x</b> Center location 31.9 N 42.2 W Maximum sustained wind 50 mph Movement E at 8 mph		<b>Forecast positions:</b> ● Tropical Cyclone ○ Post/Potential TC Sustained winds: D < 39 mph S 39-73 mph H 74-110 mph M > 110 mph	
<b>Potential track area:</b> Day 1-3 (white) Day 4-5 (dotted)	<b>Watches:</b> Hurricane (pink) Trop Stm (yellow)	<b>Warnings:</b> Hurricane (red) Trop Stm (blue)	<b>Current wind extent:</b> Hurricane (brown) Trop Stm (orange)		

## Tropical Storm Joyce (Advisory #11 as of 5:00 a.m. EDT)

- 995 miles WSW of the Azores
- Moving E at 8 mph
- Maximum sustained winds 50 mph



<b>Tropical Storm Helene</b> Saturday September 15, 2018 5 AM AST Advisory 32 NWS National Hurricane Center		<b>Current information: x</b> Center location 37.7 N 34.8 W Maximum sustained wind 70 mph Movement NNE at 22 mph		<b>Forecast positions:</b> ● Tropical Cyclone ○ Post/Potential TC Sustained winds: D < 39 mph S 39-73 mph H 74-110 mph M > 110 mph	
<b>Potential track area:</b> Day 1-3 (white) Day 4-5 (dotted)	<b>Watches:</b> Hurricane (pink) Trop Stm (yellow)	<b>Warnings:</b> Hurricane (red) Trop Stm (blue)	<b>Current wind extent:</b> Hurricane (brown) Trop Stm (orange)		

## Tropical Storm Helene (Advisory #32 as of 5:00 a.m. EDT)

- 425 miles W of the Azores
- Moving NNE at 22 mph
- Maximum sustained winds 70 mph
- Tropical Storm Warnings issued for the Azores Islands

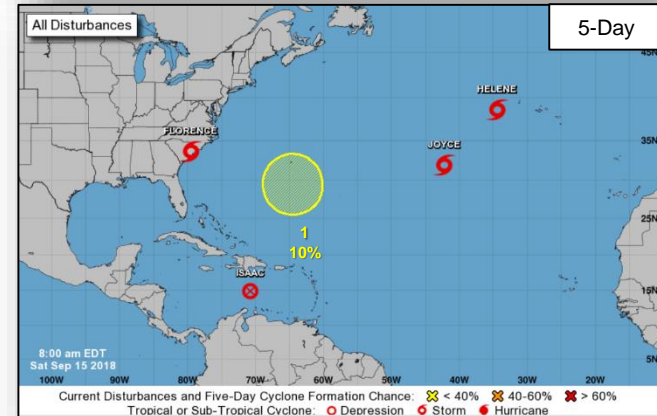
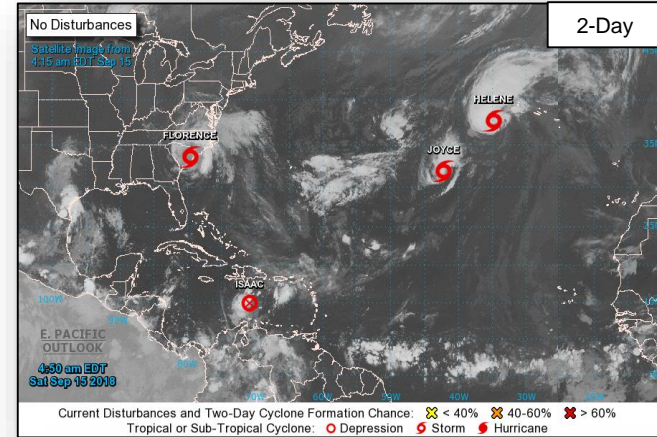
# Tropical Outlook – Atlantic



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## Disturbance 1 (as of 8:00 a.m. EDT)

- A broad area of low pressure could form near Bermuda early next week
- Additional development is expected to be slow while the system moves little
- Formation chance through 48 hours: Low (near 0%)
- Formation chance through 5 days: Low (10%)

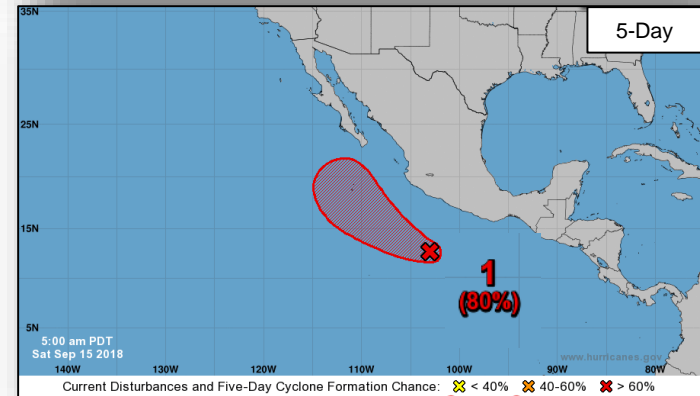
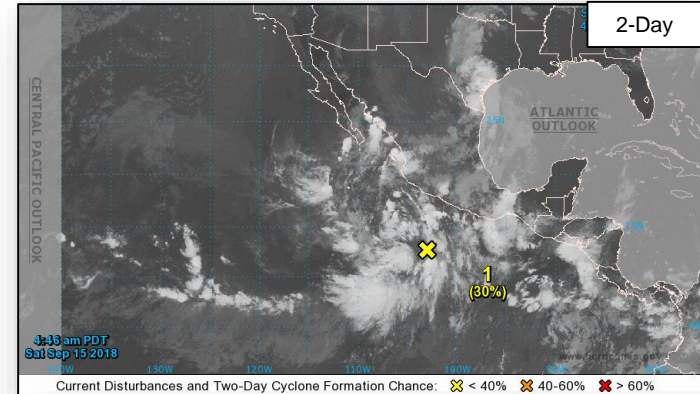


# Tropical Outlook – Eastern Pacific



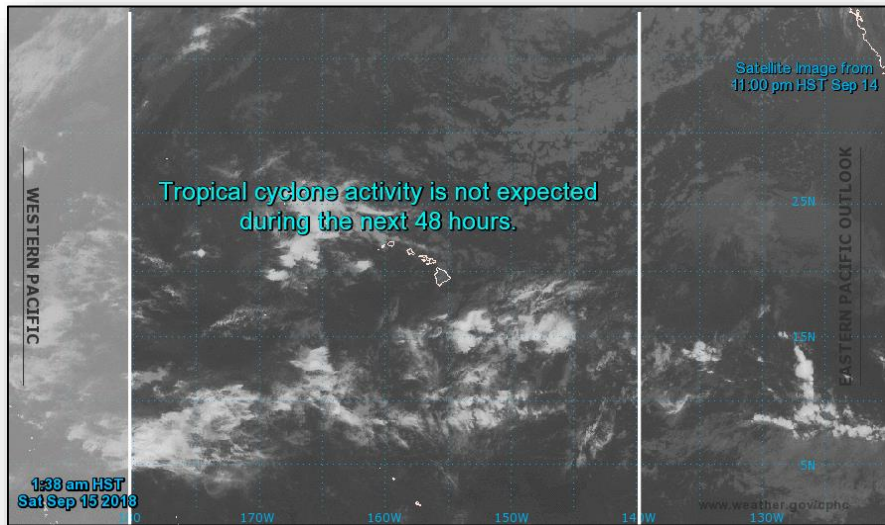
## Disturbance 1 (as of 8:00 a.m. EDT)

- Several hundred miles south of the southern coast of Mexico
- Moving WNW at 10 mph
- Gradually becoming better organized
- Tropical depression likely to form by Tuesday Formation chance through 48 hours: Low (30%)
- Formation chance through 5 days: High (80%)

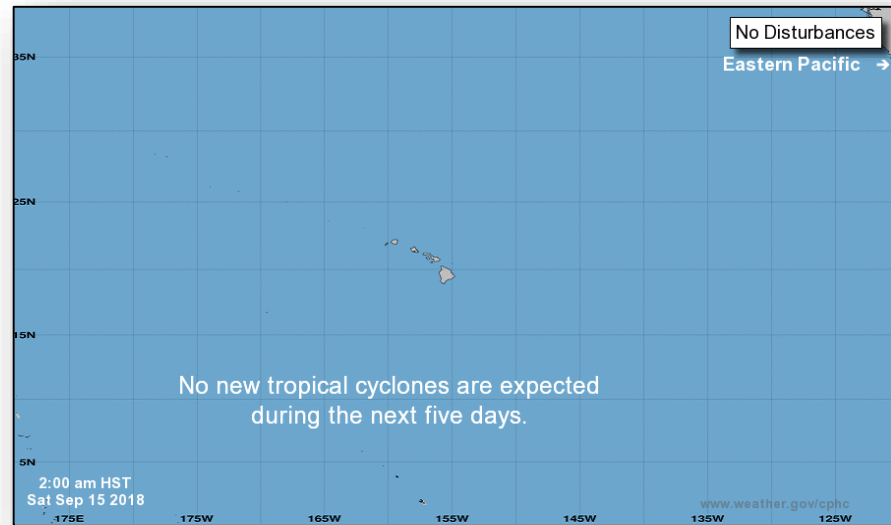




# Tropical Outlook – Central Pacific



**48 Hour Outlook**



**5 Day Outlook**

# Tropical Storm Florence

## Situation

Florence is moving slowly over SC. NC and SC expected to receive record amounts of rainfall; an additional 20 to 25 inches of rain with isolated storm totals of 30 to 40 inches possible. This rainfall will produce life-threatening flash flooding and river flooding, along with an elevated risk for landslides.

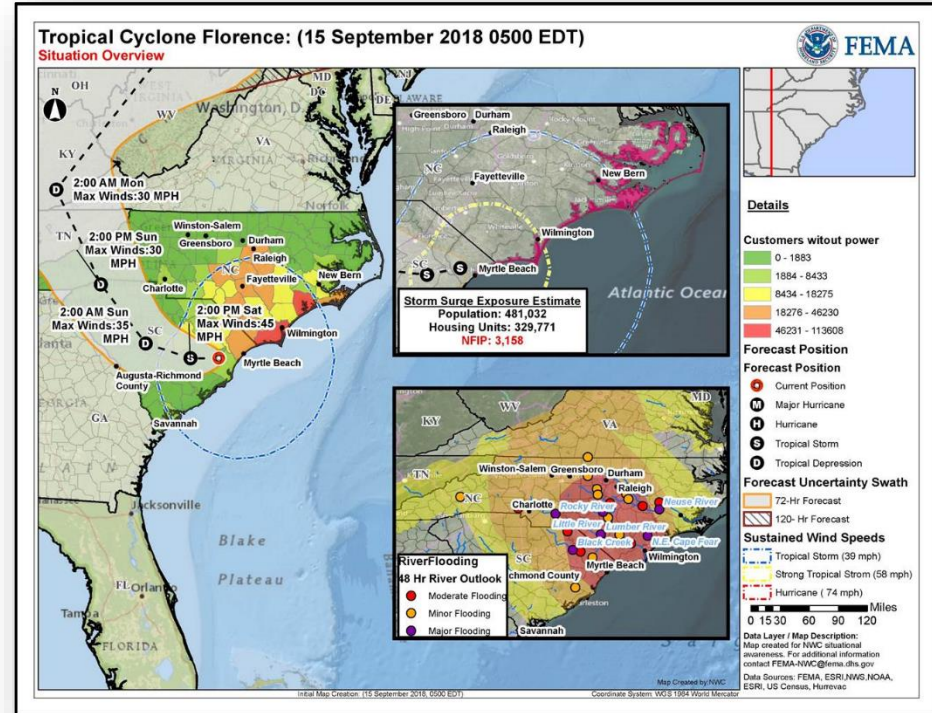
## **Storm Surge** - Heights above ground

The combination of a dangerous storm surge and the tide will cause normally dry areas near the coast to be flooded by rising waters moving inland from the shoreline.

- The Neuse, Pamlico, Pungo, and Bay Rivers
- Ocracoke Inlet NC to Cape Lookout, NC
- Cape Lookout NC to Cape Fear, NC
- Cape Fear, NC to Myrtle Beach, SC

## **Rainfall**

- Southeastern coastal NC into far northeastern SC: **an additional 10 to 15 inches**, with isolated storm totals of 30 to 40 inches
- Remainder of SC and NC into southwest VA: 5 to 10 inches, isolated 15 inches
- Isolated areas across southeastern NC: Over 24 inches reported

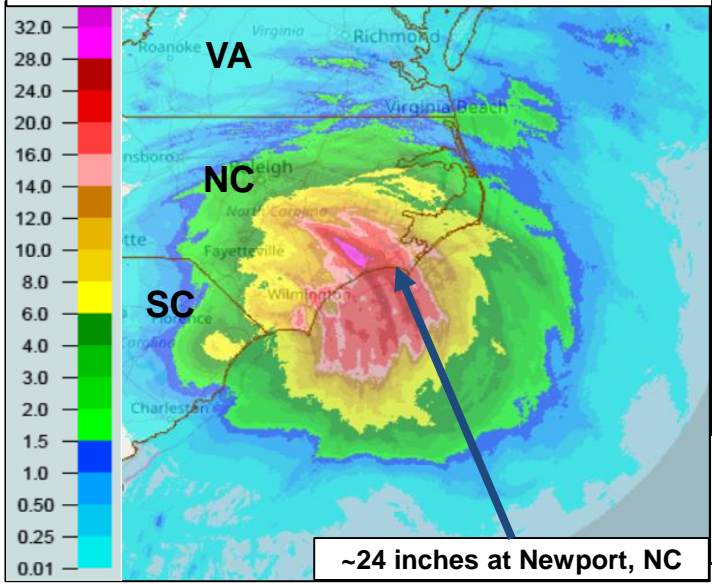


*\*Note: Customer outage data is provided by the Department of Energy's EAGLE-I system. Comprehensive National coverage of all electrical service providers is not available.*

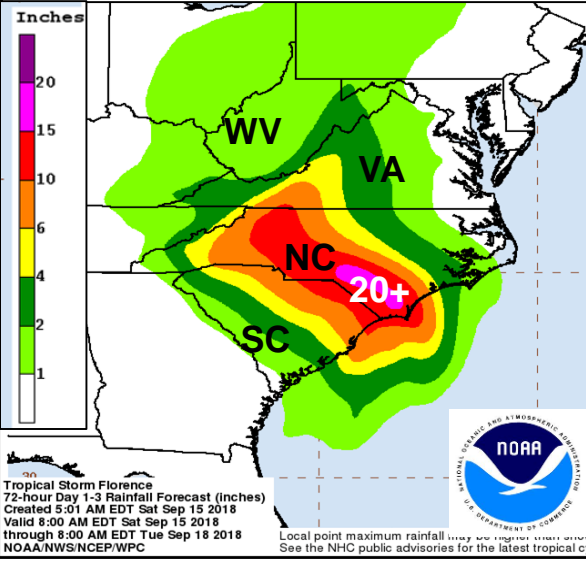
# NWS Weather Prediction Center



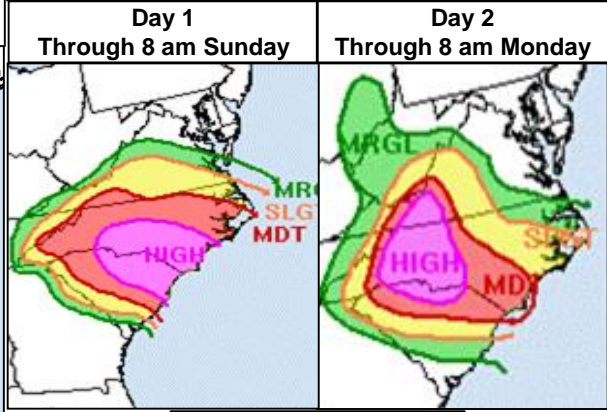
3-Day Rainfall **Observed** Through Saturday Morning, Sep. 15, 2018



3-Day Rainfall **Forecast** Through Tuesday, Sep. 18, 2018



## Daily Flash Flood Risk



Day 3  
Through 8 am Tuesday



Across southern and central NC into far northeast SC, an **additional 10 to 15 inches**, with isolated observed event totals of 30 to 40 inches along the NC coast south of Cape Hatteras

# Tropical Storm Florence – Lifeline Analysis



FEMA

## Safety & Security

- Swift Water Rescues began overnight and continue in both NC and SC
- Mandatory and Voluntary evacuations in effect for low lying/coastal areas

## Food, Water and Shelter

- Shelters: 249 (+44) open with 17,576 (+3,506) occupants across 3 states (NC, SC, & VA) (ESF-6 as of 6:00 a.m. EDT)

## Health and Medical

- 5 confirmed fatalities in NC (2 unconfirmed)

## Energy

- Power Outages (DOE EAGLE-I as of 6:30 a.m. EDT)
  - VA: 2.7K customers out and rising
  - NC: 777K customers out and rising
  - SC: 165K customers out and rising

## Communications

- No destabilizing factors reported

NC



SC



VA, WV, & GA



## Transportation

- Airports:
  - NC: Most airports closed, one regional airport open for emergency operations
  - SC: Charleston International Airport closed, some regional airports closed
- Rail / Transit:
  - Suspended/modified schedules across impacted area
  - VA: Freight train movement with hazmat loads suspended
- Ports: Major ports in NC, SC, & VA closed; some ports in SC, VA, DC, MD & GA open with restrictions

## Hazardous Waste

- No destabilizing factors reported

# Tropical Storm Florence



## Region IV

- RRCC at Level I, 24/7
- LNOs and DCO/DCE deployed to GA, NC and SC
- IMAT 1 deployed to NC; IMAT 2 deployed to SC
- Regional HLT deployed to NHC

## North Carolina (FEMA-3401-EM-NC)

- [FEMA-4393-DR-NC approved](#)
- EOC at Full Activation; State of Emergency declared
- US&R: Red IST, 3 – Type 1; 4 – Type 3; 12 – MRP Water Team

## South Carolina (FEMA-3400-EM-SC)

- EOC at Full Activation; State of Emergency declared
- US&R: 4 – Type 1; 1 MRP Water Team; 1 HEPP

## Georgia

- EOC at Full Activation; State of Emergency declared

## Tennessee

- EOC at Monitoring (EMAC support)

## Kentucky

- EOC at Monitoring (EMAC support)

## Region III

- RRCC at Level II (day shift), Level III (night shift) with all ESFs, DOD USCG, DHS IP, ARC;
- LNOs deployed to NRCC, VA EOC
- 2 IMATs deployed to VA

## Virginia (FEMA-3403-EM-VA):

- EOC at Full Activation; State of Emergency declared; National Guard activated
- US&R: 2 – Type 3; 3 – MRP Water Teams

## State Response

- MD EOC at Partial Activation (days); State of Emergency declared
- WV EOC at Full Activation, State of Emergency declared
- DE EOC at Monitoring

## Region II

- [RRCC deactivated Friday morning; RWC at Steady State \(24/7\)](#)
- [NJ EOC returned to Normal Operations; USAR Incident Coordination Center activated and supporting NJ USAR Task Force 1 in NC](#)

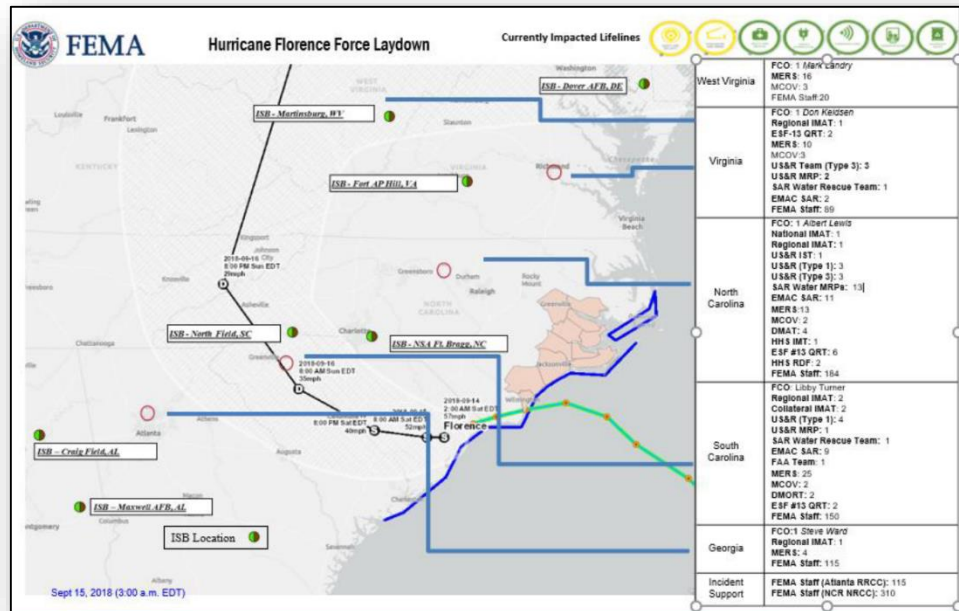
# Tropical Storm Florence



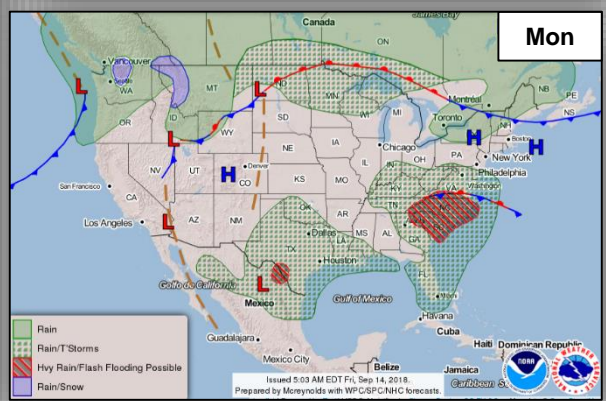
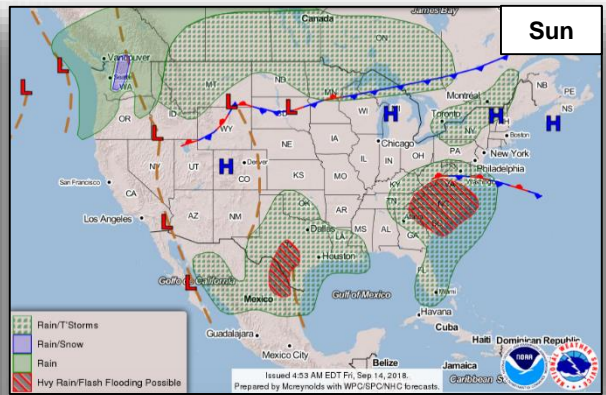
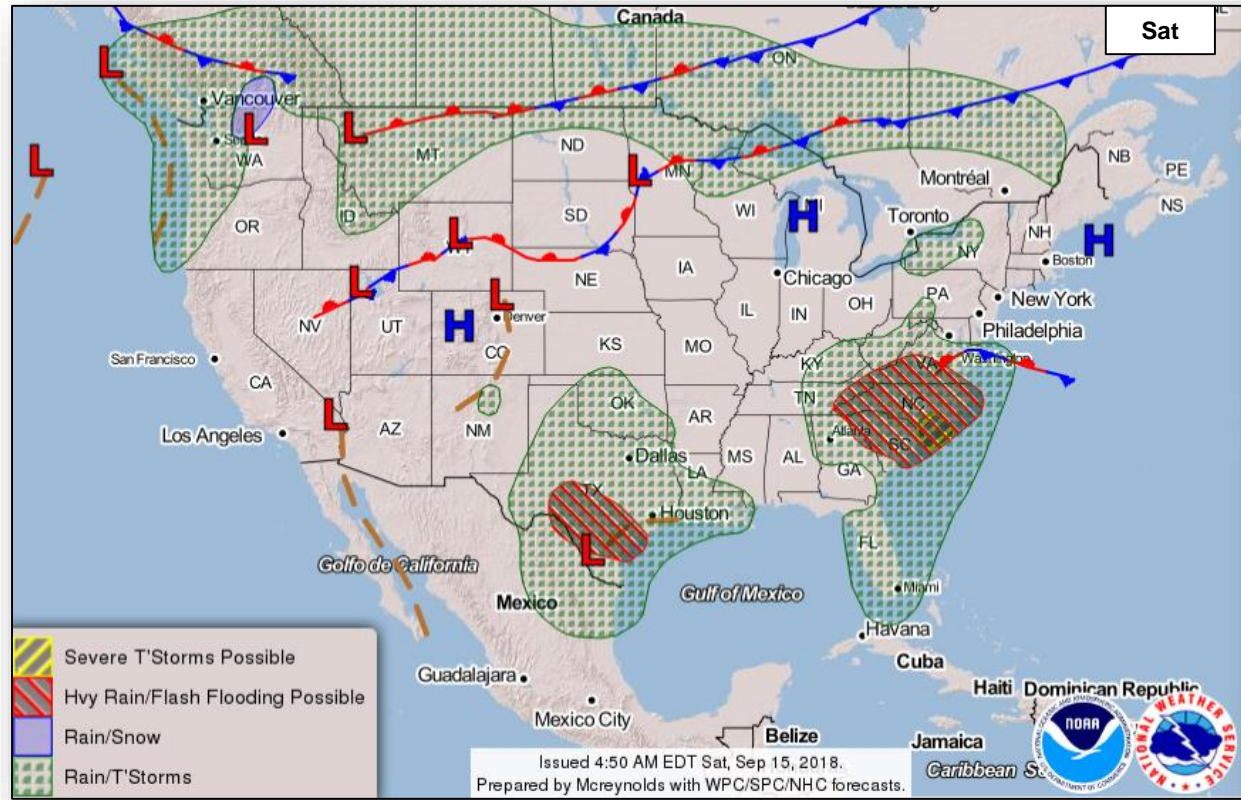
## Response

### FEMA HQ

- NRCC at Level I, 24/7 with all LNOs and ESFs
- National IMAT East-1 deployed to NC EOC
- Composite IMAT deployed to SC EOC
- Region I IMAT staged in VA
- Region V IMAT staged in DC
- Region VIII IMAT deployed to Region IV HQ
- MERS assets deployed
- Staging Areas established at Ft. A.P. Hill, VA and Martinsburg, WV



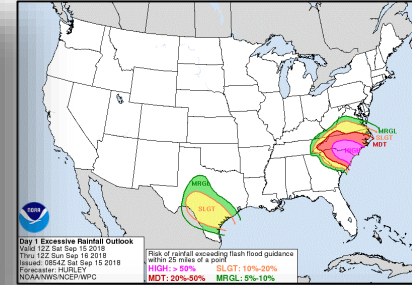
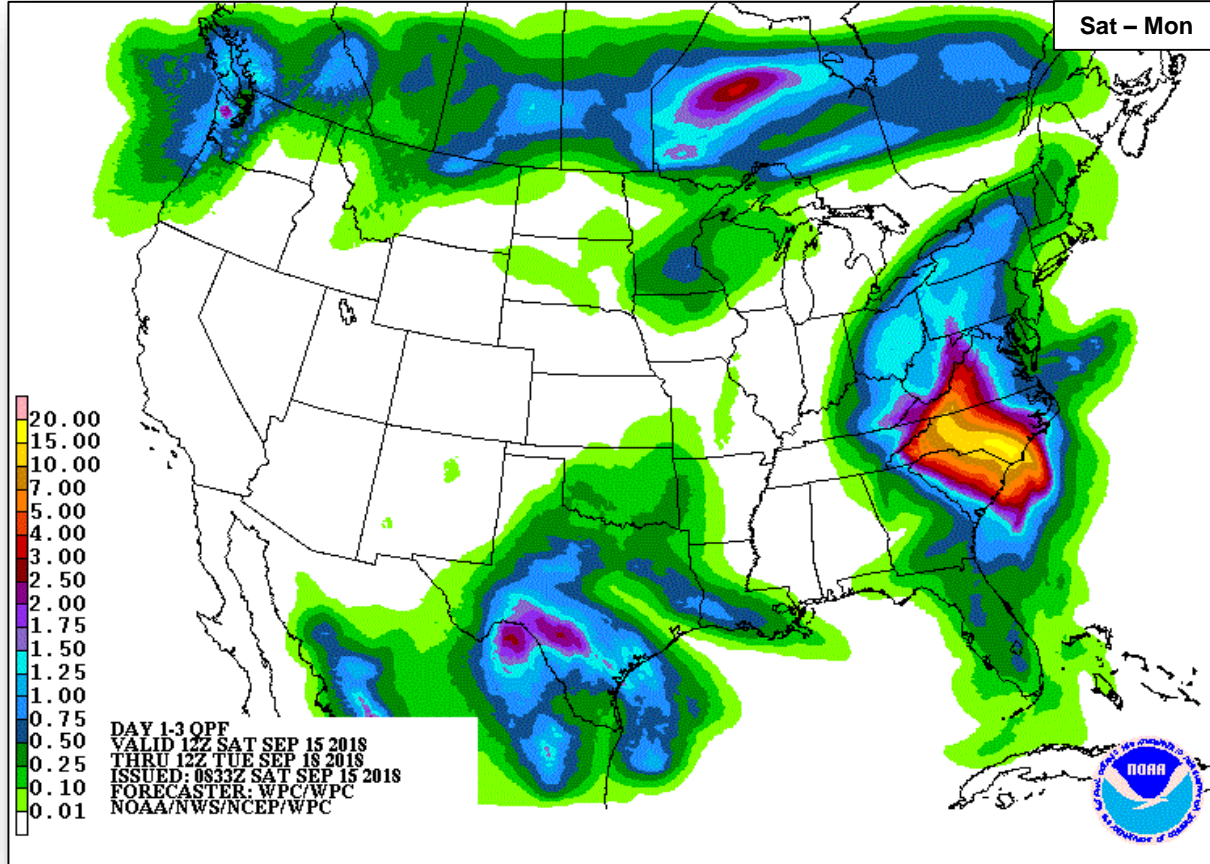
# National Weather Forecast



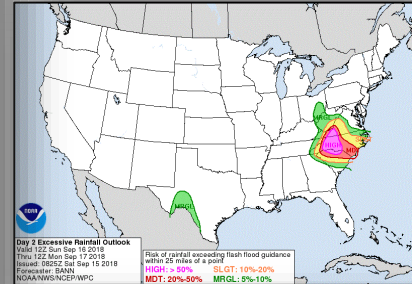
# Precipitation / Excessive Rainfall Forecast



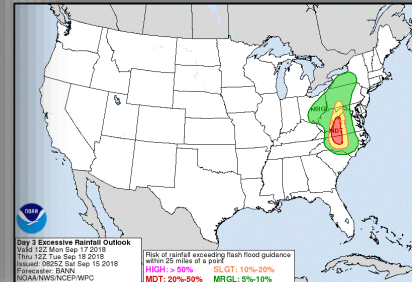
FEMA



Sat



Sun



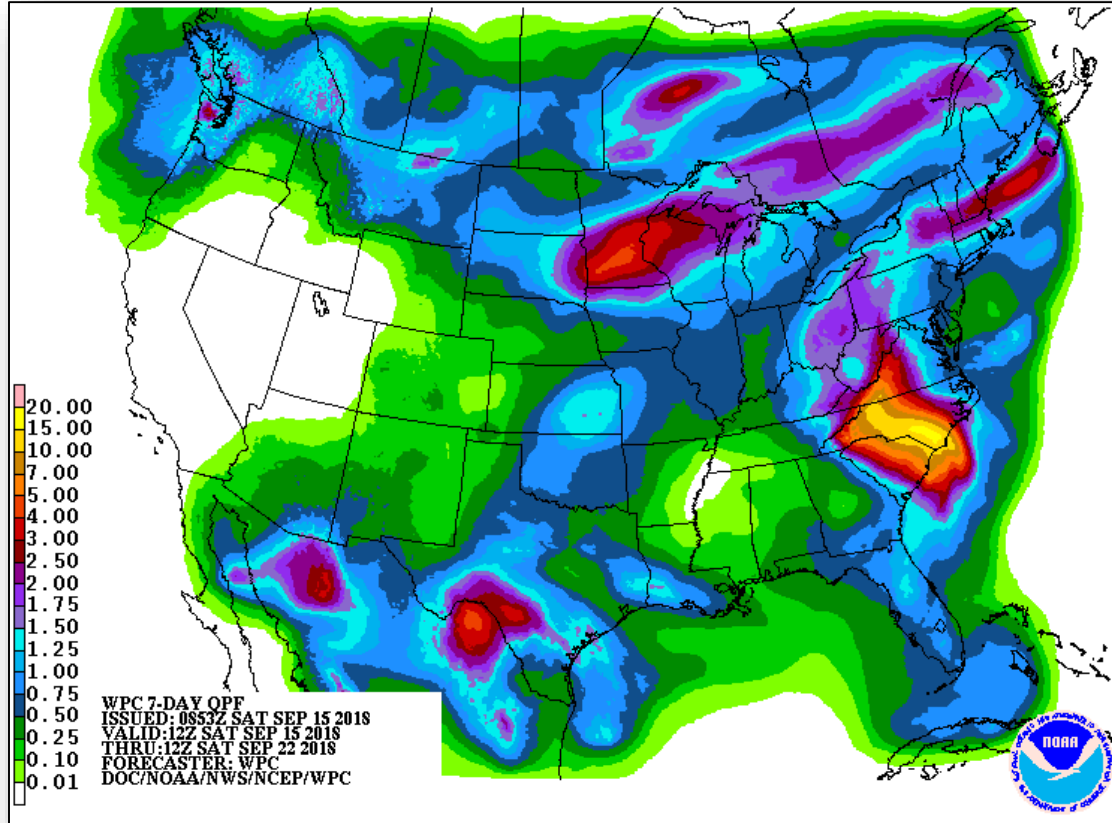
Mon



# 7-day Forecast Precipitation



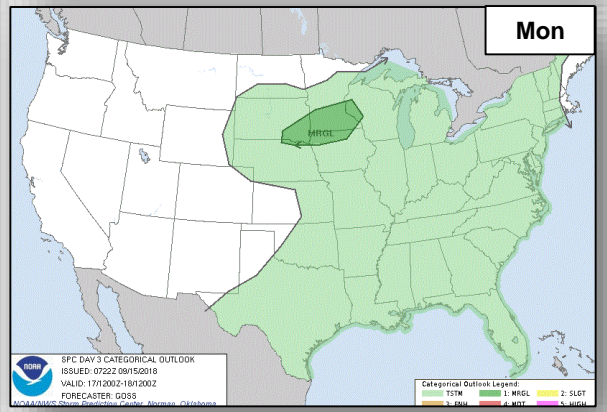
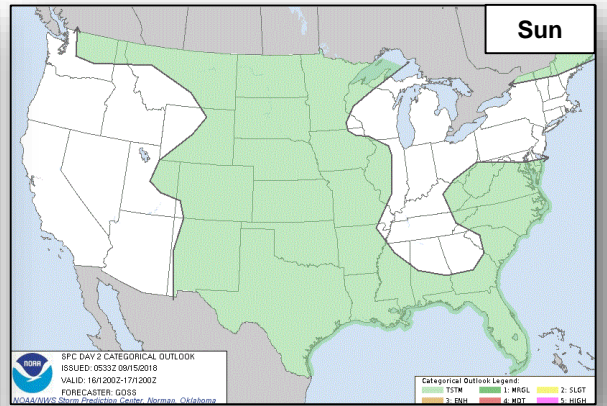
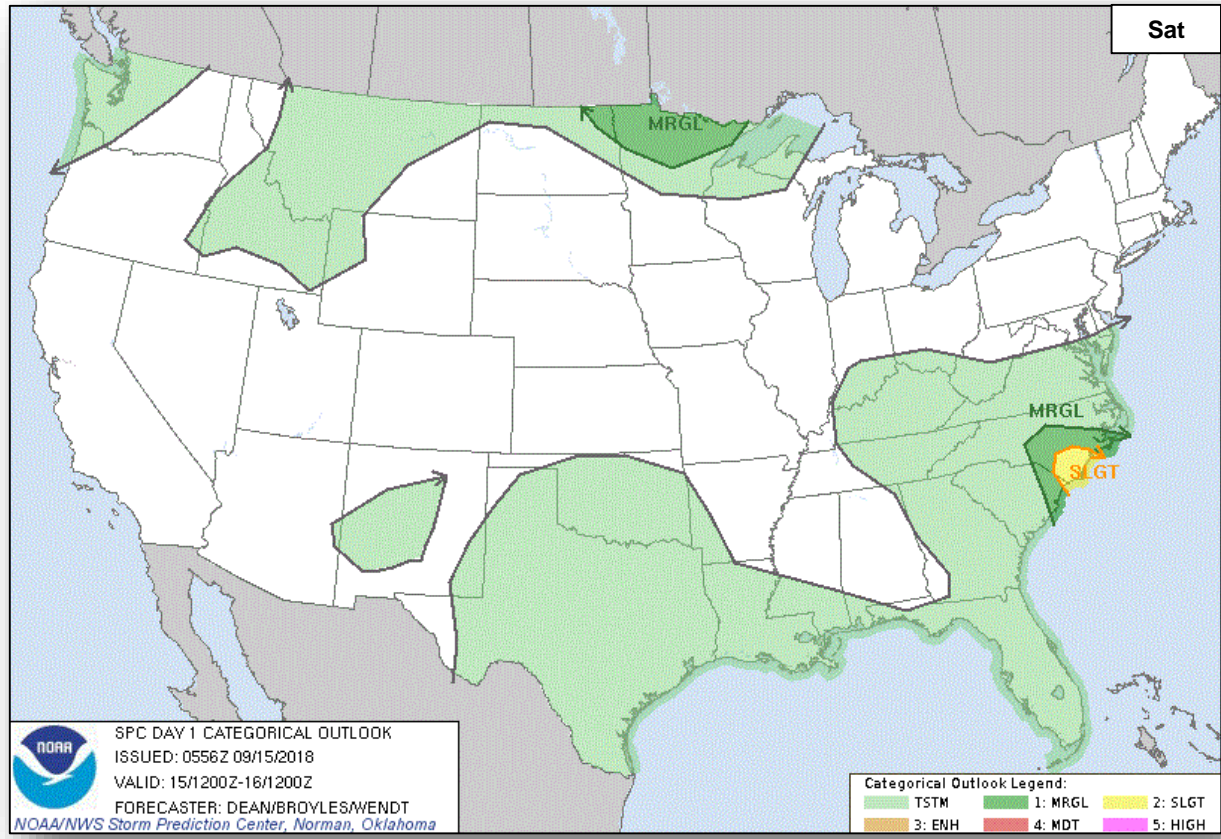
FEMA



# Severe Weather Outlook



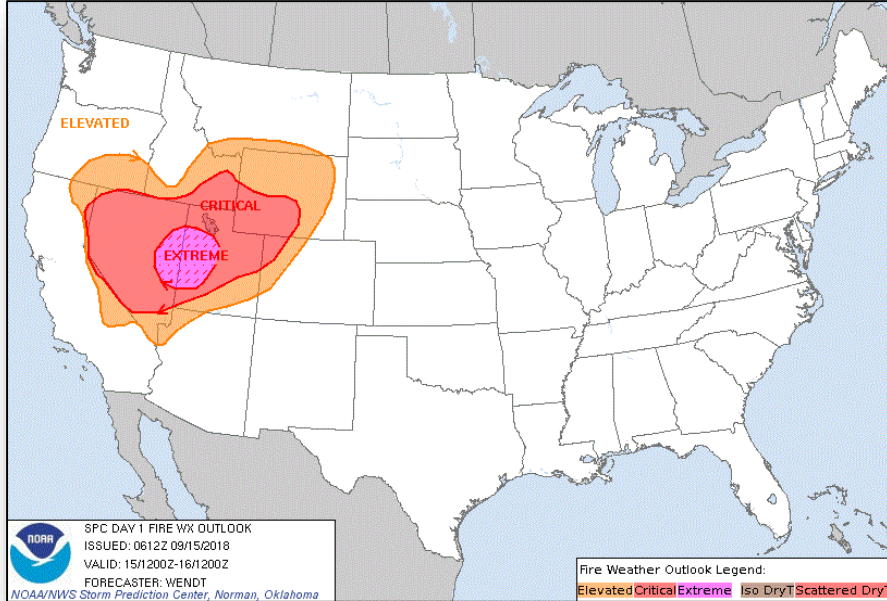
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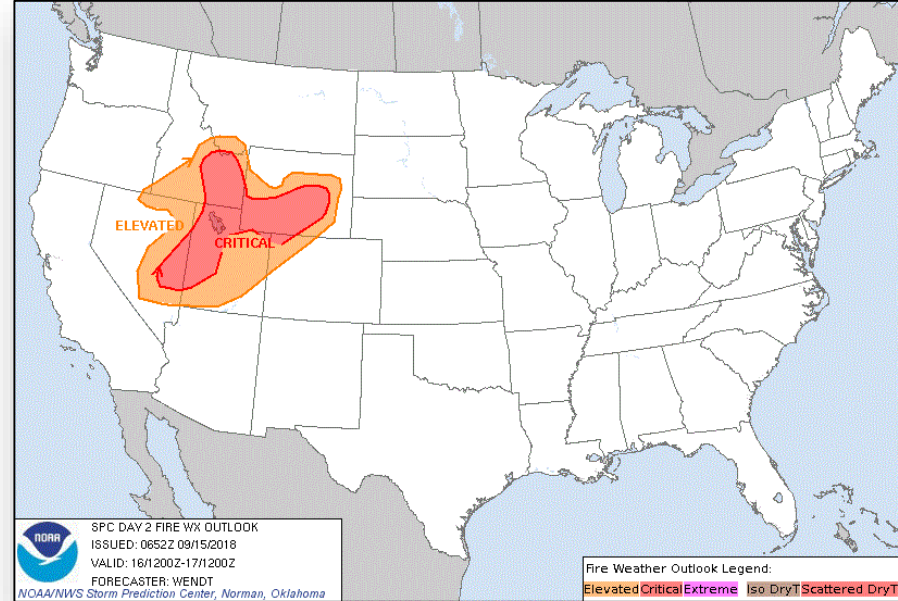
# Fire Weather Outlook



FEMA



**Saturday**

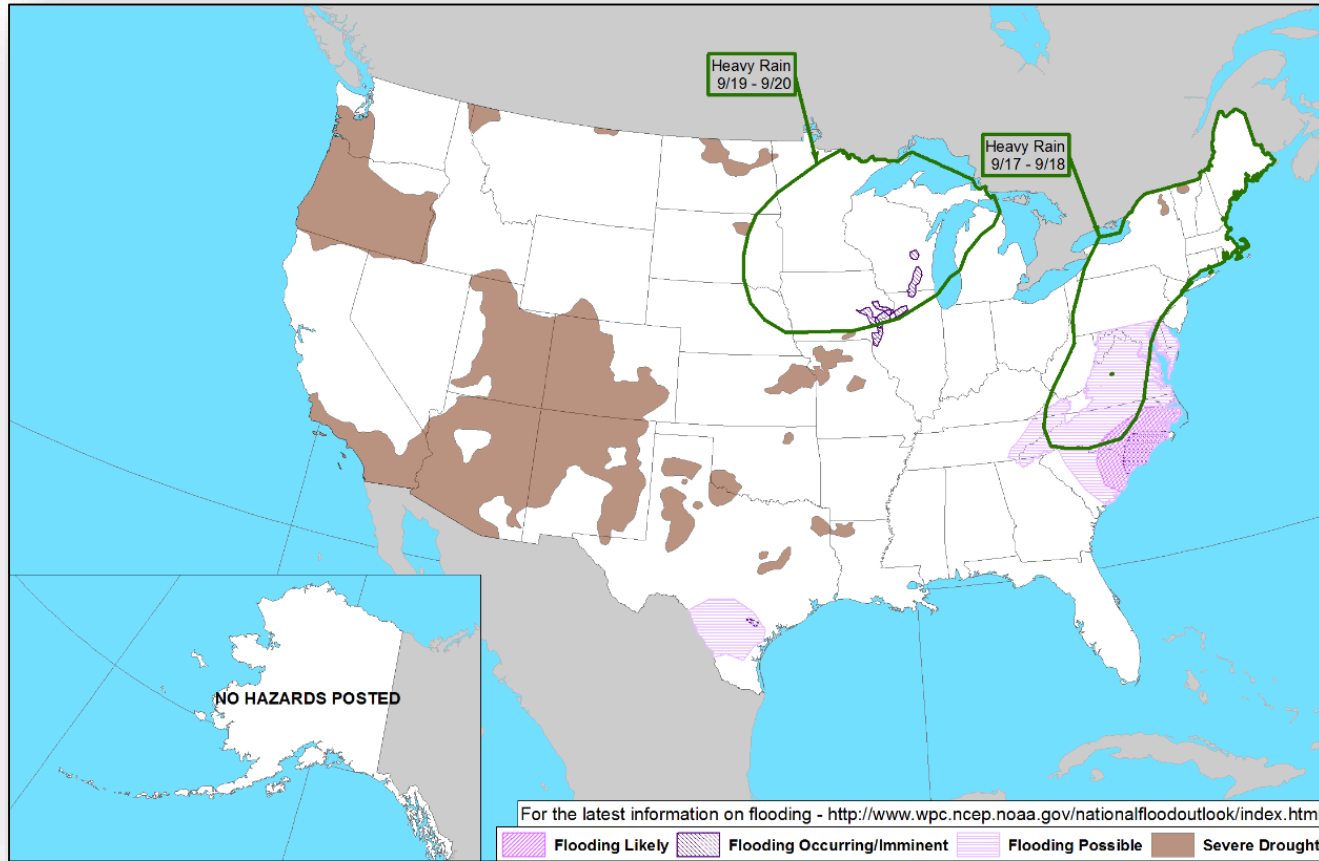


**Sunday**

# Hazards Outlook – Sep 17-21



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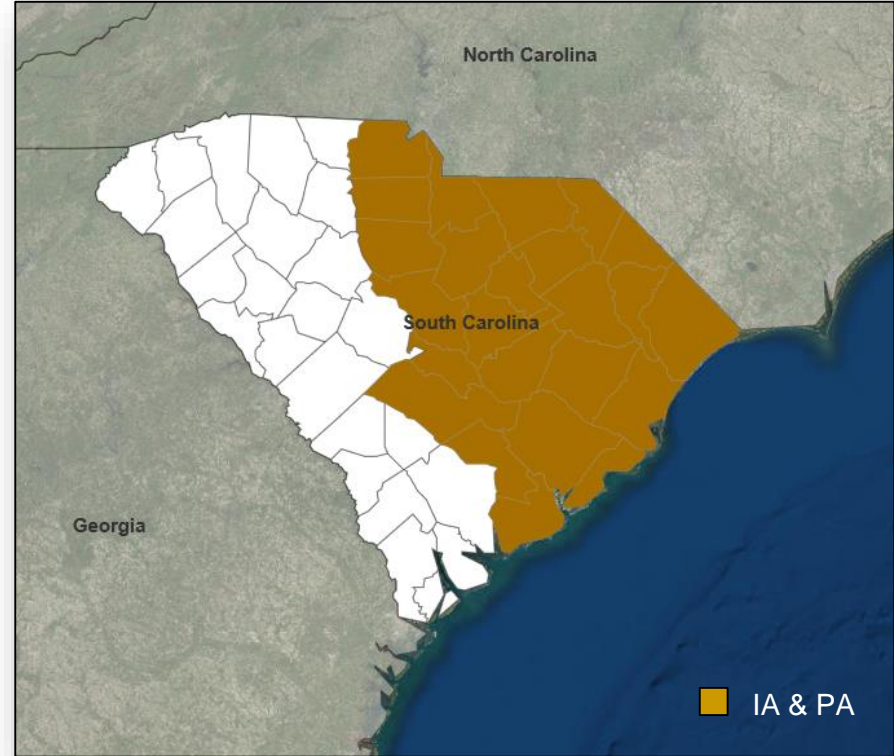
# Declaration Request



FEMA

## **South Carolina**

- The Governor requested an expedited Major Disaster Declaration on September 14, 2018
- For Hurricane Florence beginning September 8, 2018 and continuing
- Requesting:
  - Individual Assistance
  - Public Assistance including direct Federal assistance for 23 Counties and the Catawba Indian Nation
  - Hazard Mitigation statewide



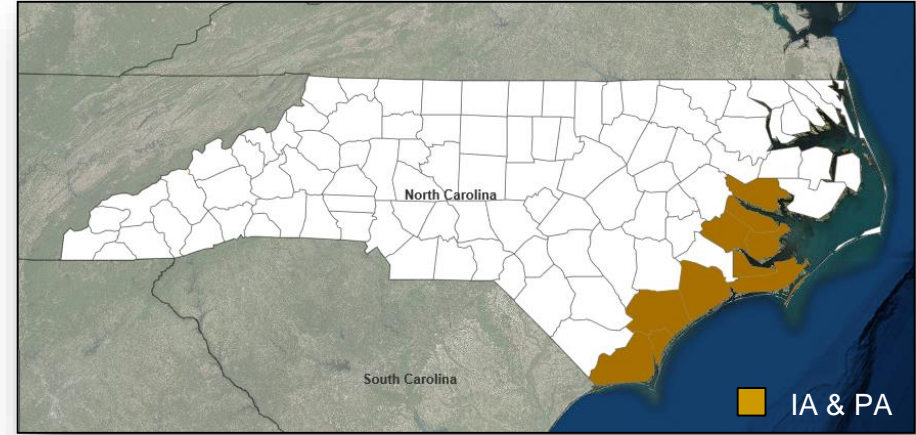
# Declaration Approved



FEMA

## **FEMA-4393-DR-NC**

- The President approved a Major Disaster Declaration on September 14, 2018
- For Hurricane Florence beginning September 7, 2018 and continuing
- Provides:
  - Individual and Public Assistance for 8 Counties
  - Hazard Mitigation statewide
- FCO is Albert Lewis



# Disaster Requests & Declarations



FEMA

Declaration Requests in Process					Requests APPROVED (since last report)	Requests DENIED (since last report)
8	IA	PA	HM	Date Requested	1	0
LA – DR Flooding		X	X	June 29, 2018		
Cheyenne River Sioux Tribe – DR Severe Storm and Straight-line Winds	X	X	X	August 17, 2018		
Oglala Sioux Tribe – DR Severe Storms, Tornadoes, and Straight-line Winds	X		X	August 27, 2018		
NJ – DR Severe Storms and Flooding	X		X	August 30, 2018		
HI – DR Hurricane Lane and Wildfires	X	X	X	September 5, 2018		
PA – (Appeal) DR Severe Storms, Flooding, and Landslides		X	X	September 7, 2018		
NY – DR Severe Storms and Tornadoes		X	X	September 9, 2018		
NC – DR (Expedited) Hurricane Florence	X	X	X	September 13, 2018	DECLARED September 14	
SC – DR (Expedited) Hurricane Florence	X	X	X	September 14, 2018		

# Disaster Amendments



FEMA

Amendment	Date Issued	Action
Amendment No. 2 to FEMA-3399-EM-HI	September 14, 2018	Incident period for this disaster closed effective August 29, 2018





# Readiness – Deployable Teams and Assets

Resource	Force Strength	Available	Deployed	Other	Cadres with 25% or Less Availability
<b>IM Workforce</b>	11,848 ▼	1,811 ▼ 15%	6,266 ▲	3,771	DSA 13% (107/837); EHP 16% (62/389); ER 14% (6/43); FL 22% (35/157); FM 23% (60/265); HR 6% (14/235); IA 5% (130/2,797); IT 16% (99/629); LOG 7% (84/1,166); OPS 8% (20/260); PA 11% (197/1,820); PLAN 9% (31/340); SAF 13% (7/53); SEC 12% (13/108)
<b>National IMATs*</b> (1-2 Teams)	East 1: East 2: West:	Deployed Deployed B-2			
<b>Regional IMATs</b> (< 3 Teams)	Assigned: PMC / NMC: Deployed:	13 3 (+2) 1 9 (-2)			
<b>National ISBs</b> (0 Teams)	Team A Team B Team C	Deployed Deployed Deployed			
<b>US&amp;R</b> (≥ 66%)	Assigned: Available: PMC / NMC: Deployed:	28 1 2 25			
<b>MERS</b> (33-65%)	Assigned: Available: PMC / NMC: Deployed:	36 19 0 17			
<b>FCO</b> (≤ 1 Type I)	Assigned: Available: PMC / NMC: Deployed:	33 13 2 18			
<b>FDRC</b> (≥ 3)	Assigned: Available: PMC / NMC: Deployed:	14 2 3 9			

\* B-2 Status: Assemble ≤ 2-hrs, On Site ≤ 18-hrs; B-48 Status: Assemble and deploy ≤ 48hrs; Charlie Status: No team assemble time requirement

# FEMA Readiness – Activation Teams



Status		Activated Team	Activation Level	Activation Times	Reason / Comments
<b>NWC</b>	Steady State				
<b>NRCC</b>	Activated	Blue	Level I	24/7	Tropical Activity – Atlantic & Pacific
<b>HLT</b>	Activated				
<b>RWC / MOCs</b> (10 Regions)	Activated	Region VI	Enhanced Watch	Day shift only	Severe Weather
<b>RRCCs</b> (10 Regions)	Activated	Region II Region III Region IV Region VI	Available Level II / Level III Level I Level III	Day shift / Night shift 24/7 Day shift	Deactivated Hurricane Florence Hurricane Florence Tropical Activity (Invest 95L)



# FEMA

**FEMA's mission is helping people before, during, and after disasters.**