

The Disaster Center is dedicated to the idea that disaster mitigation is cost effective and individuals pursuing their own interest are the greatest potential force for disaster reduction.

Please consider making a small donation to the Disaster Center



When disaster mitigation is cost effective, we are on the road to bringing disasters to an end.



FEMA

Daily Operations Briefing

Friday, September 14, 2018

8:30 a.m. EDT

Significant Activity – Sep 13-14



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Significant Events: Hurricane Florence

Tropical Activity:

- Atlantic – Hurricane Florence (CAT 1); Tropical Storm Helene; Tropical Depression Isaac; Subtropical Storm Joyce; Disturbance 1: Low (20%); Disturbance 2: Low (10%)
- Eastern Pacific – Disturbance 1: Medium (60%)
- Central Pacific – Tropical Depression Olivia
- Western Pacific – No activity affecting U.S. interests

Significant Weather:

- Strong to severe thunderstorms with a few tornadoes possible across eastern North Carolina
- Heavy rain with flooding/flash flooding and storm surge possible – Southern TX & the Carolinas to Mid-Atlantic
- Critical/elevated fire weather – CA, NV, AZ, UT, CO, WY, MT, ID, & WA
- Red Flag Warnings – AZ, NV, UT, CO, WY, & ID

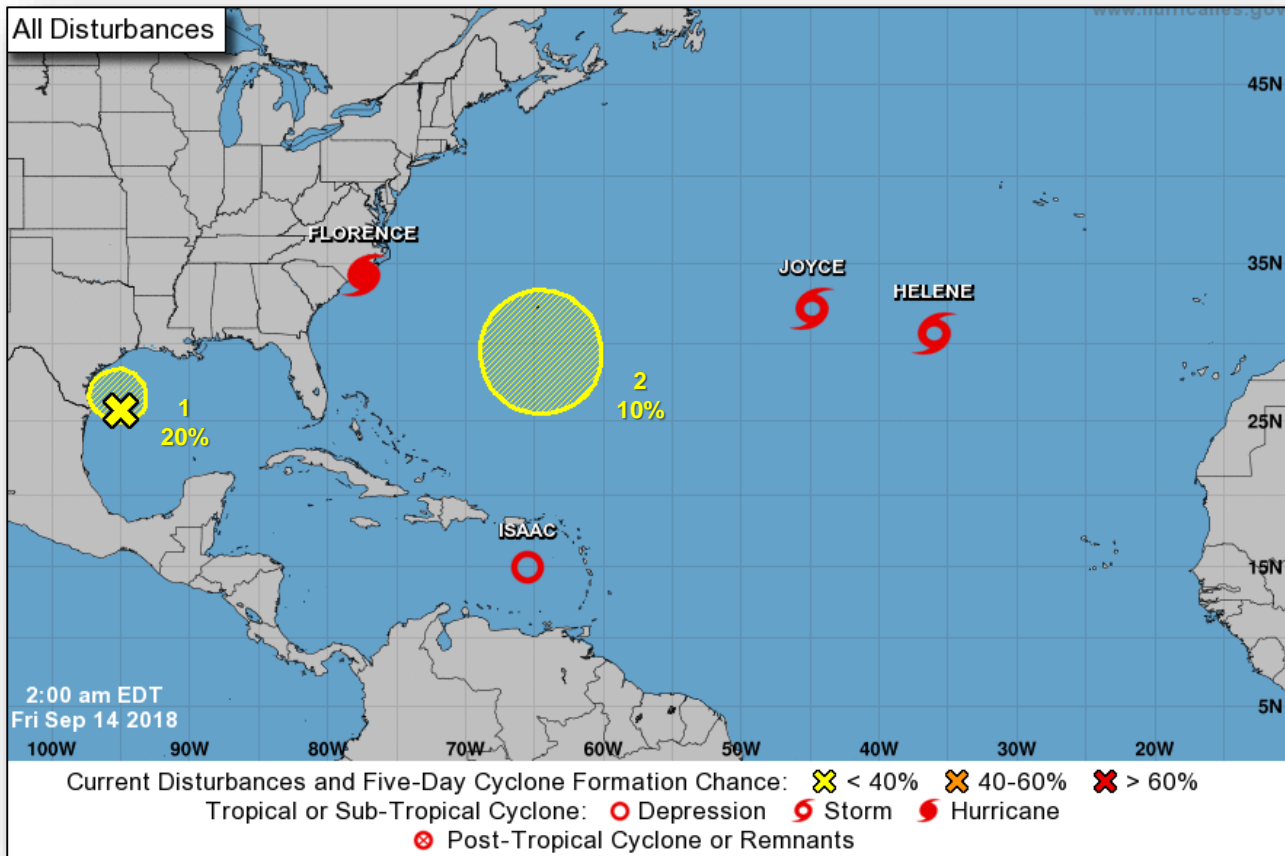
Declaration Activity:

- Major Disaster Declaration request – North Carolina

Tropical Outlook – Atlantic



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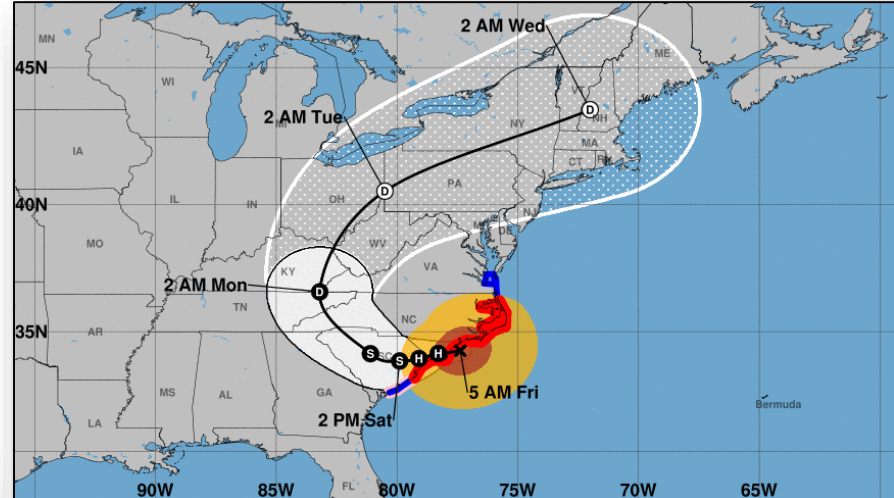
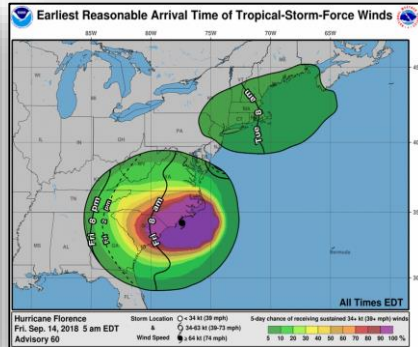
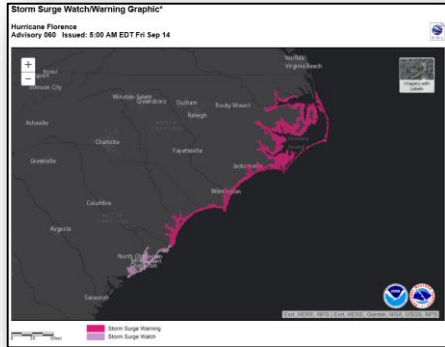


Hurricane Florence



Hurricane Florence (CAT 1) (Advisory #60 as of 5:00 a.m. EDT)

- Located 25 miles E of Wilmington, NC
- Moving WNW at 6 mph
- Maximum sustained winds 90 mph
- Hurricane-force winds extend outward up to 80 miles
- Tropical-storm-force winds extend 195 miles
- Causing life-threatening storm surges and hurricane-force winds
- Catastrophic freshwater flooding expected over portions of North and South Carolina



Hurricane Florence Friday September 14, 2018 5 AM EDT Advisory 60 NWS National Hurricane Center	Current information: x Center location 34.2 N 77.4 W Maximum sustained wind 90 mph Movement WNW at 6 mph	Forecast positions: ● Tropical Cyclone ○ Post/Potential TC Sustained winds: D < 39 mph S 39-73 mph H 74-110 mph M > 110 mph
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Potential track area: ○ Day 1-3 ● Day 4-5	Watches: ■ Hurricane ■ Trop Stm	Warnings: ■ Hurricane ■ Trop Stm	Current wind extent: ■ Hurricane ■ Trop Stm
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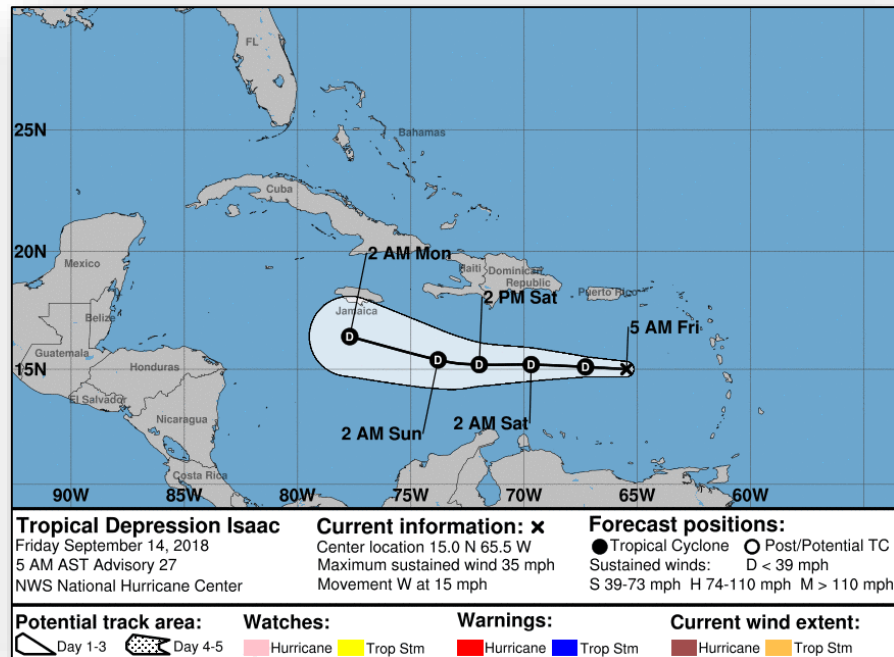
Tropical Depression Isaac



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Tropical Depression Isaac (Advisory #27, as of 5:00 a.m. EDT)

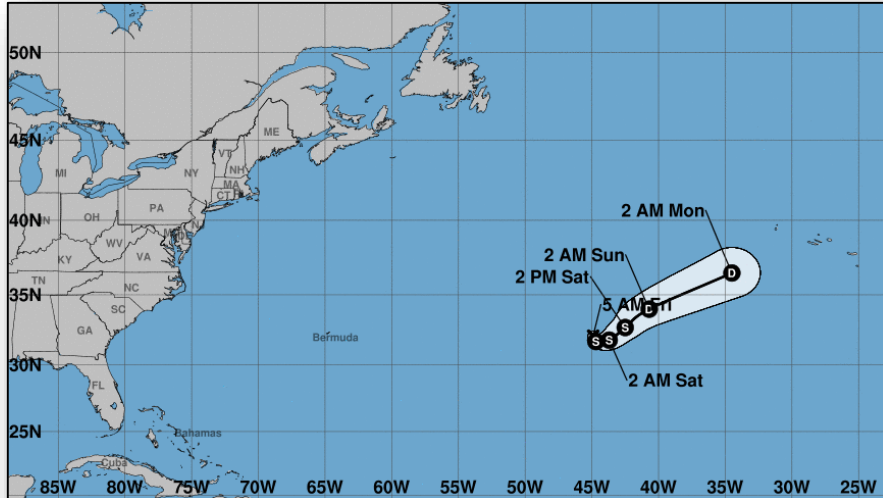
- Located 190 miles SSW of St. Croix
- Moving W at 15 mph
- Maximum sustained winds are 35 mph
- There are no coastal watches or warnings in effect



Tropical Storm Helene & Joyce



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Tropical Storm Joyce
 Friday September 14, 2018
 5 AM AST Advisory 7
 NWS National Hurricane Center

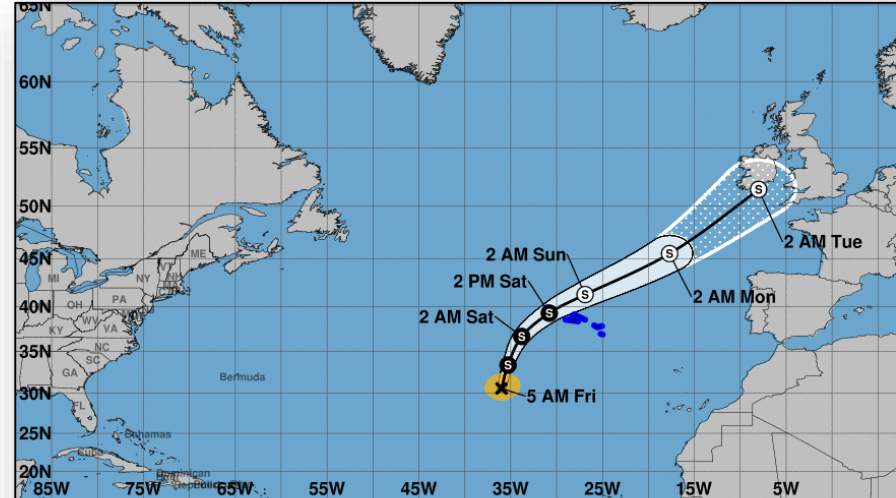
Current information: x
 Center location 32.1 N 44.9 W
 Maximum sustained wind 40 mph
 Movement SSW at 8 mph

Forecast positions:
 ● Tropical Cyclone ○ Post/Potential TC
 Sustained winds: D < 39 mph
 S 39-73 mph H 74-110 mph M > 110 mph

Potential track area: Day 1-3 (solid line), Day 4-5 (dotted line)
Watches: Hurricane (pink), Trop Stm (yellow)
Warnings: Hurricane (red), Trop Stm (blue)
Current wind extent: Hurricane (brown), Trop Stm (orange)

Subtropical Storm Joyce (Advisory #7 as of 5:00 a.m. EDT)

- 1,090 miles WSW of the Azores
- Moving SSW at 8 mph
- Maximum sustained winds 40 mph
- Expected to weaken early next week



Tropical Storm Helene
 Friday September 14, 2018
 5 AM AST Advisory 28
 NWS National Hurricane Center

Current information: x
 Center location 30.6 N 36.0 W
 Maximum sustained wind 65 mph
 Movement N at 23 mph

Forecast positions:
 ● Tropical Cyclone ○ Post/Potential TC
 Sustained winds: D < 39 mph
 S 39-73 mph H 74-110 mph M > 110 mph

Potential track area: Day 1-3 (solid line), Day 4-5 (dotted line)
Watches: Hurricane (pink), Trop Stm (yellow)
Warnings: Hurricane (red), Trop Stm (blue)
Current wind extent: Hurricane (brown), Trop Stm (orange)

Tropical Storm Helene (Advisory #28 as of 5:00 a.m. EDT)

- 760 SW of the Azores
- Moving N at 23 mph
- Maximum sustained winds 65 mph
- Tropical Storm Warnings issued for the Azores Islands

Tropical Outlook – Atlantic Disturbances



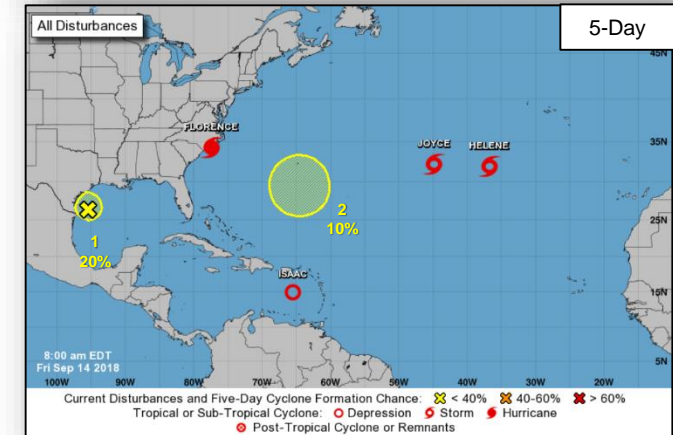
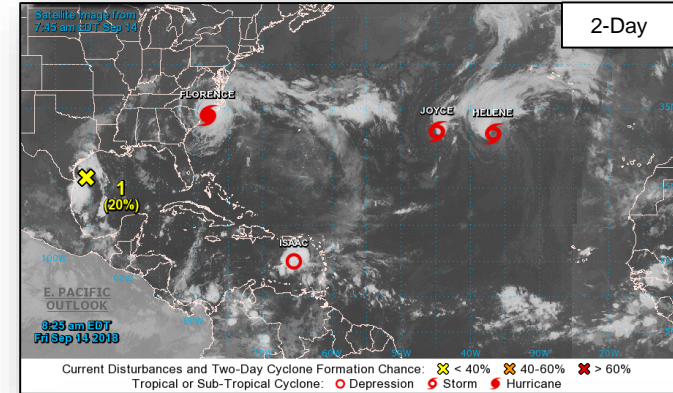
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Disturbance 1 (as of 8:00 a.m. EDT)

- Weak low pressure system located over the western Gulf of Mexico
- Heavy rainfall and gusty winds expected across portions of Texas through Saturday
- Formation chance through 48 hours: Low (20%)
- Formation chance through 5 days: Low (20%)

Disturbance 2 (as of 8:00 a.m. EDT)

- Could form near Bermuda late this weekend or early next week
- Formation chance through 48 hours: Low (near 0%)
- Formation chance through 5 days: Low (10%)

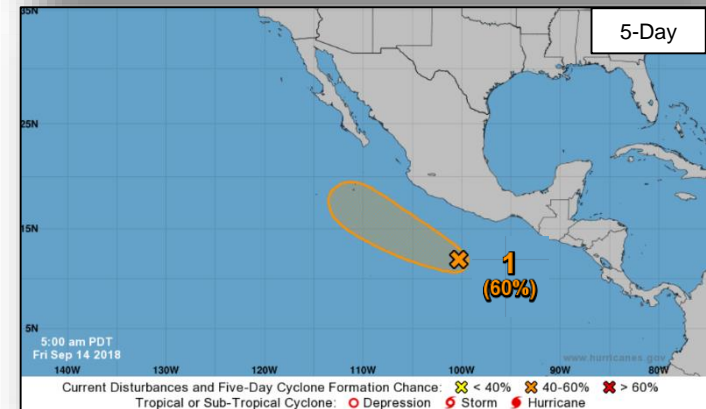
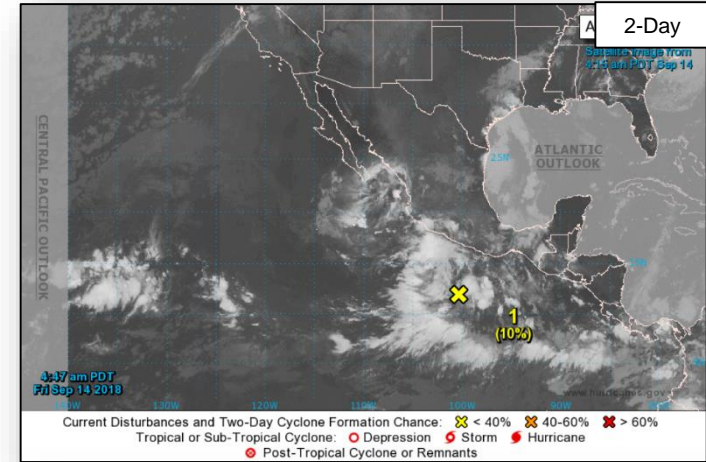


Tropical Outlook – Eastern Pacific



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

- Several hundred miles south of the southwestern coast of Mexico
- Formation chance through 48 hours: Low (10%)
- Formation chance through 5 days: Medium (60%)

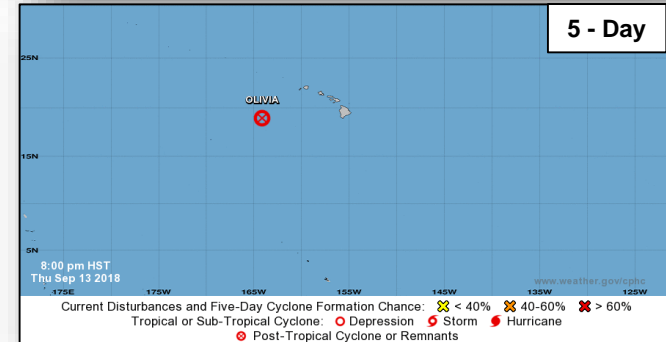
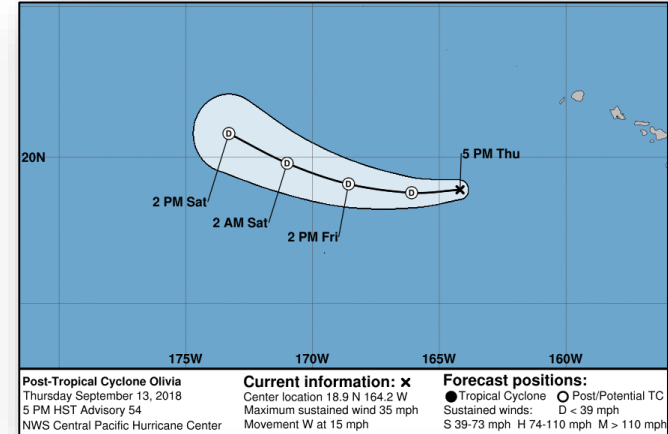


Tropical Outlook – Central Pacific



Tropical Depression Olivia (Advisory #54 as of 11:00 p.m. EDT) **FINAL**

- 440 miles WSW of Honolulu, HI
- Moving W at 15 mph
- Maximum sustained winds 35 mph
- No further advisories will be issued



Hurricane Florence



Situation

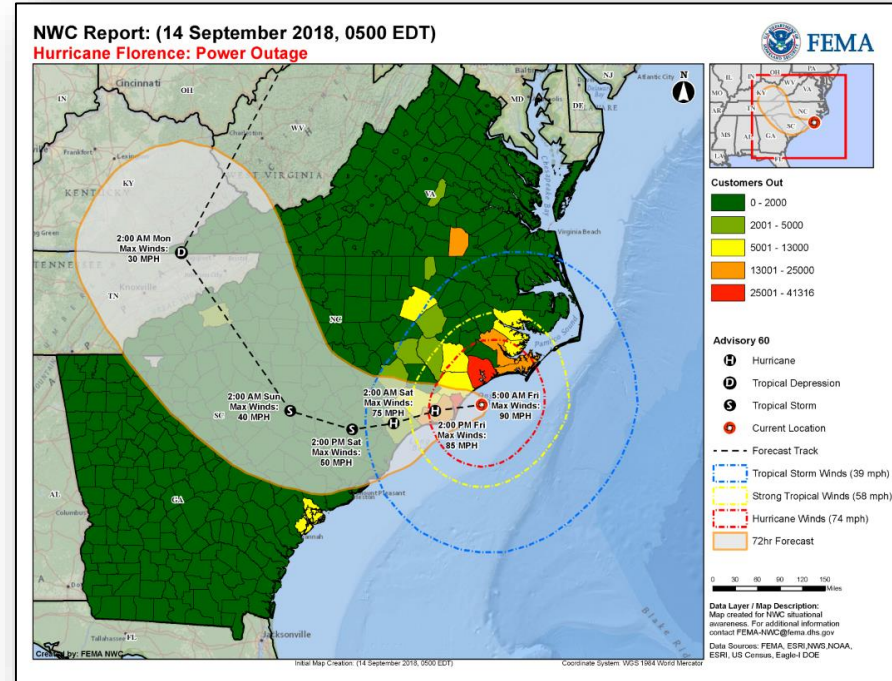
Florence remains a large hurricane. Life threatening storm surge, heavy rainfall, and damaging wind will cover a large area regardless of exactly where the center of Florence moves.

Storm Surge - Heights above ground

- Cape Fear, NC to Cape Lookout, NC...7-11 ft, with locally higher amounts in the Neuse, Pamlico, Pungo, & Bay Rivers
- Cape Lookout, NC to Ocracoke Inlet, NC...6-9 ft
- South Santee River, SC to Cape Fear, NC...4-6 ft
- Ocracoke Inlet, NC to Salvo, NC...4-6 ft
- Salvo, NC to Duck, NC...2-4 ft
- Edisto Beach, SC to South Santee River, SC...2-4 ft

Rainfall

- Southeastern coastal North Carolina into far northeastern South Carolina...an additional 20 to 25 inches, with isolated storm totals of 30 to 40 inches. This rainfall will produce catastrophic flash flooding and prolonged significant river flooding
- Remainder of South Carolina and North Carolina into southwest Virginia...5 to 10 inches, isolated 15 inches. This rainfall will produce life-threatening flash flooding.



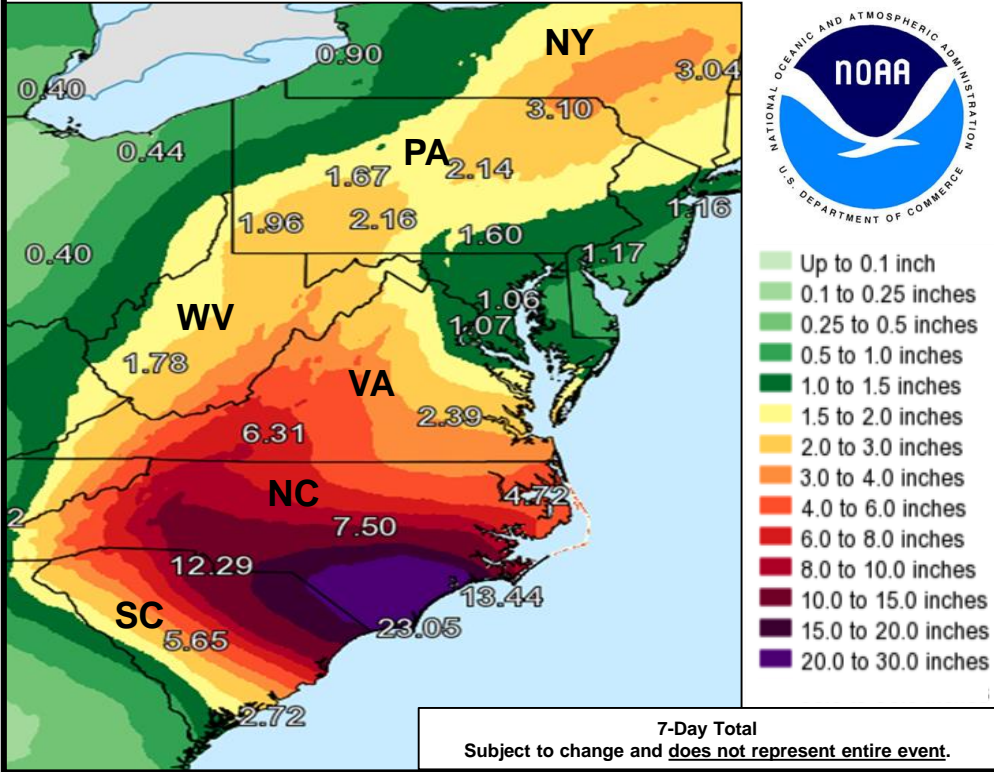
*Note: Customer outage data is provided by the Department of Energy's EAGLE-1 system. Comprehensive National coverage of all electrical service providers is not available.

NWS Weather Prediction Center

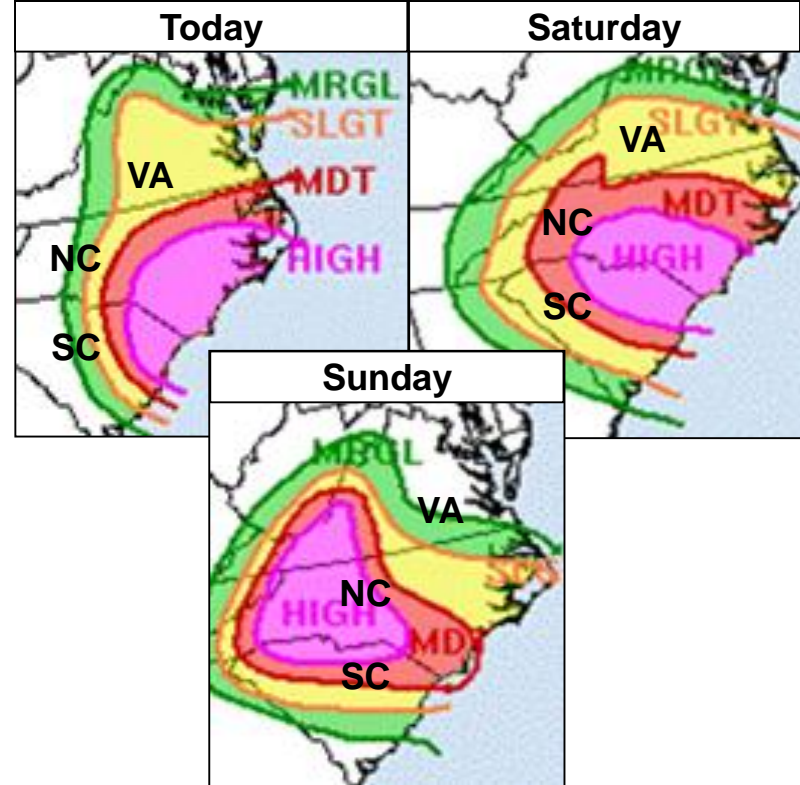


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Additional Rainfall Forecast thru Friday, Sep. 21, 2018



Daily Flash Flood Risk



Hurricane Florence – Lifeline Analysis



Safety & Security

- Swift Water Rescues began overnight and continue; residents reportedly awaiting rescue in New Bern, NC
- Mandatory and Voluntary evacuations in effect for low lying/coastal areas

Food, Water and Shelter

- Shelters: 205 (+69) Open with 14,070 (+7,317) occupants across 3 states (NC, SC, & VA) (ARC Midnight Shelter Count as of 6:06 a.m. EDT)

Health and Medical

- No destabilizing factors reported

Energy

- Power Outages (DOE EAGLE-1 as of 5:30 a.m. EDT)
 - VA: 2.8K customers out and rising
 - NC: 220K customers out and rising
 - SC: 8K customers out and rising

NC & SC



VA, WV, & GA



Communications

- No destabilizing factors reported

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

Hurricane 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)

- 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

- NJ EOC at Monitoring (EMAC support and US&R requirements)

Hurricane Florence

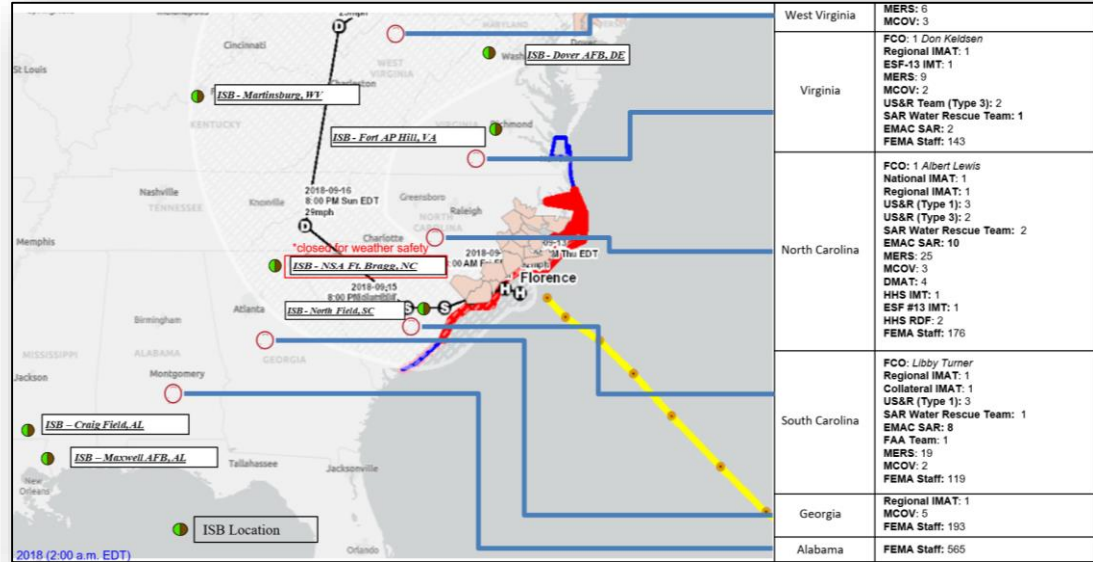


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Response

FEMA HQ

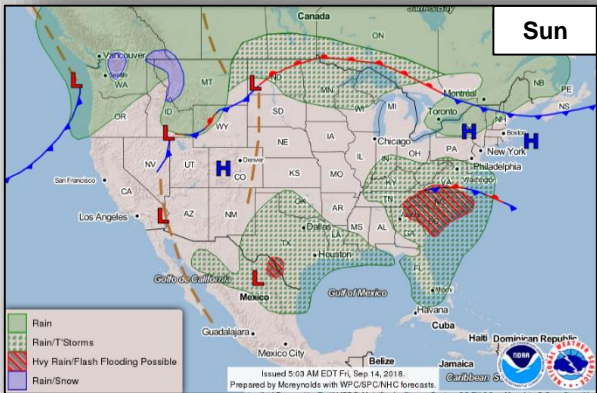
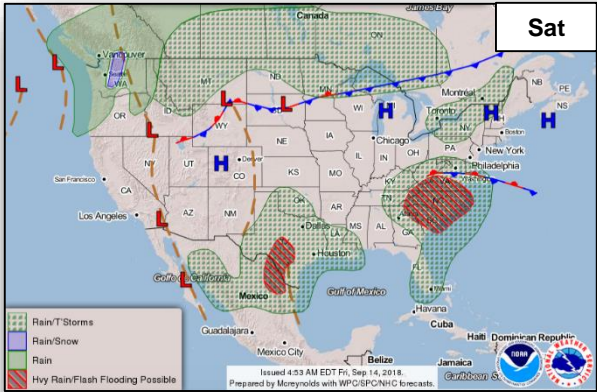
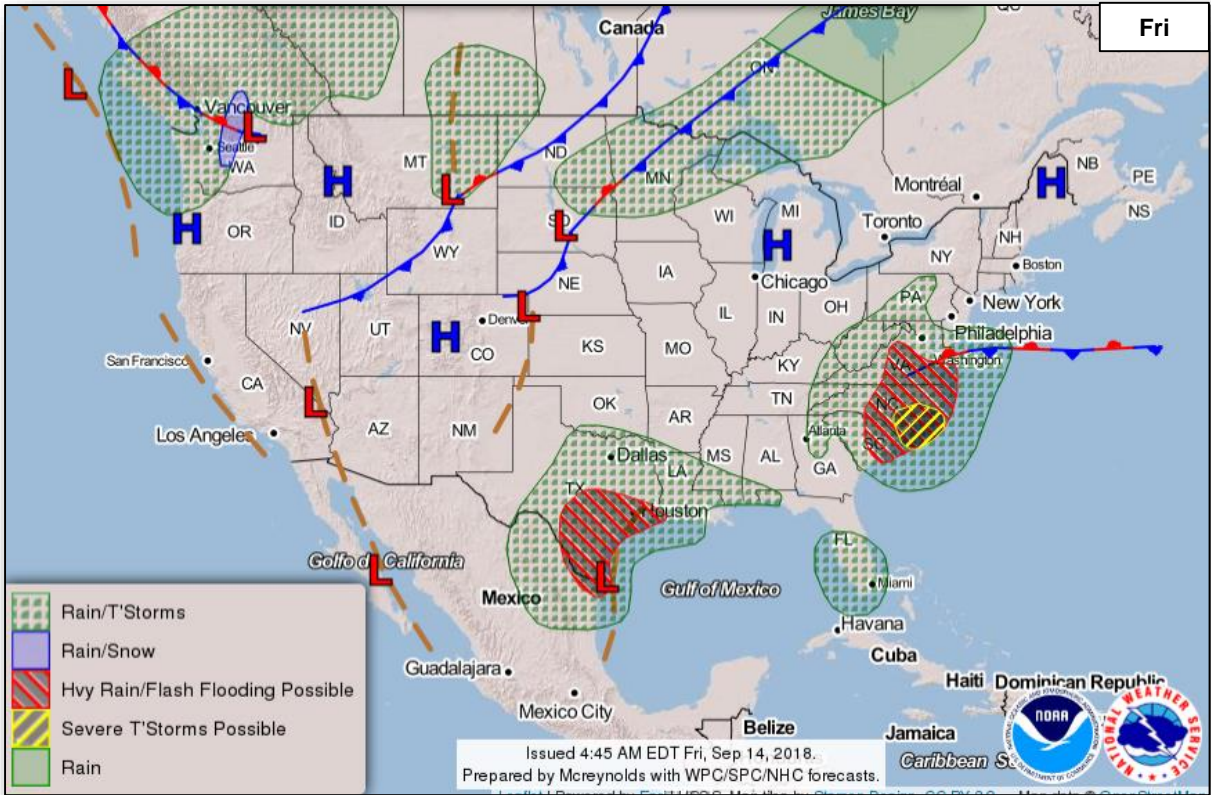
- NRCC at Level I, 24/7 with all LNOs and ESFs
- National IMAT East-1 deployed to NC EOC
- **National IMAT East-2 deployed to SC EOC**
- Region I IMAT deployed to VA
- Region V IMAT deployed to DC to pre-stage
- Region VIII IMAT deployed to Region IV HQ
- MERS assets deployed
- Composite IMAT deployed to SC EOC
- Staging Areas established at Ft. A.P. Hill, VA and Martinsburg, WV



National Weather Forecast



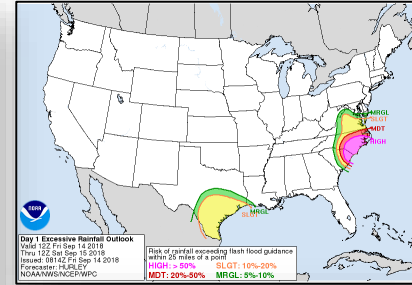
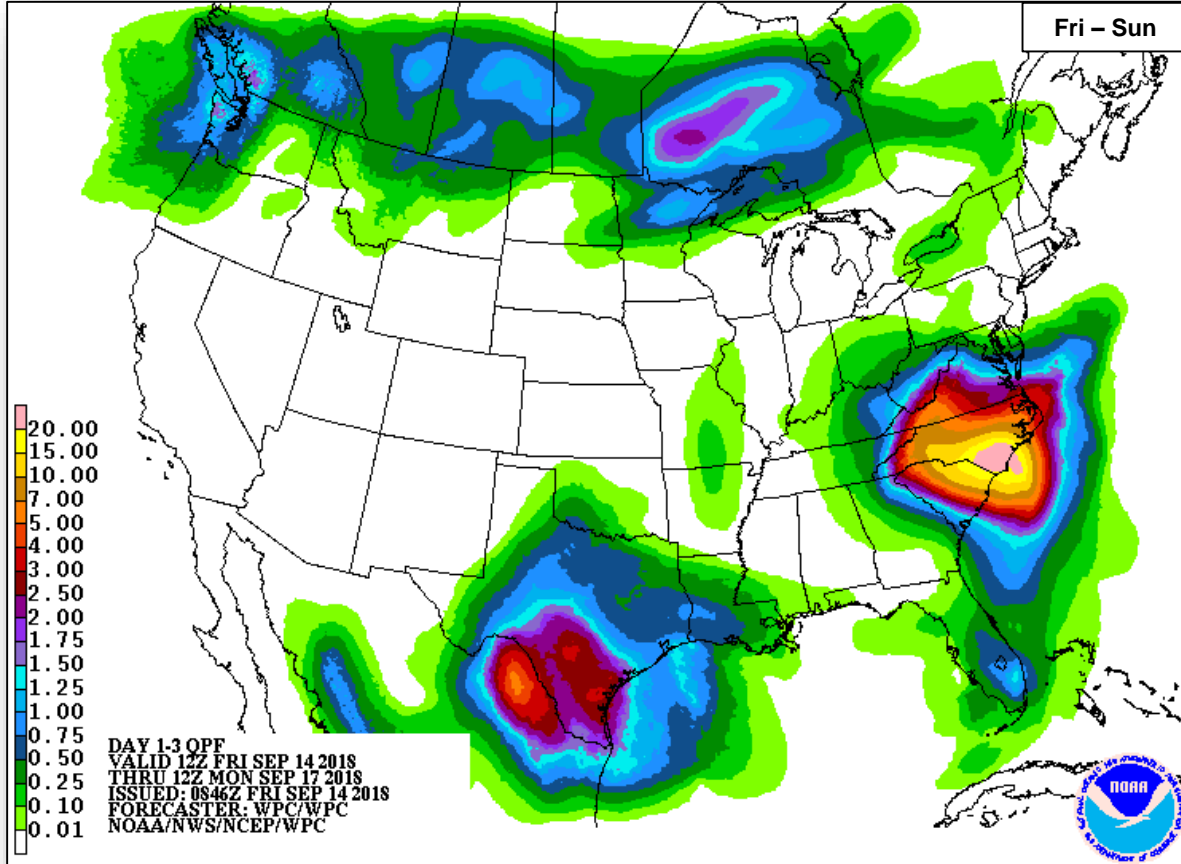
FEMA



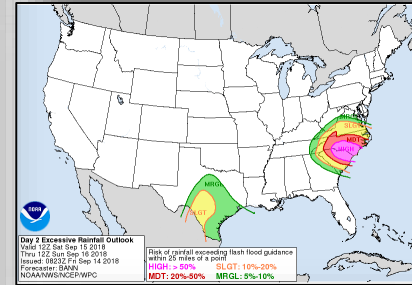
Precipitation / Excessive Rainfall Forecast



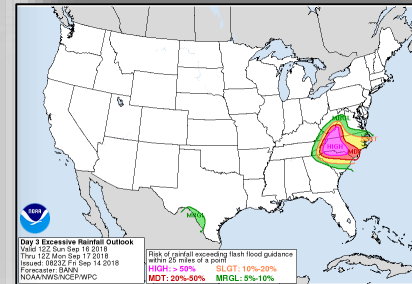
FEMA



Fri



Sat

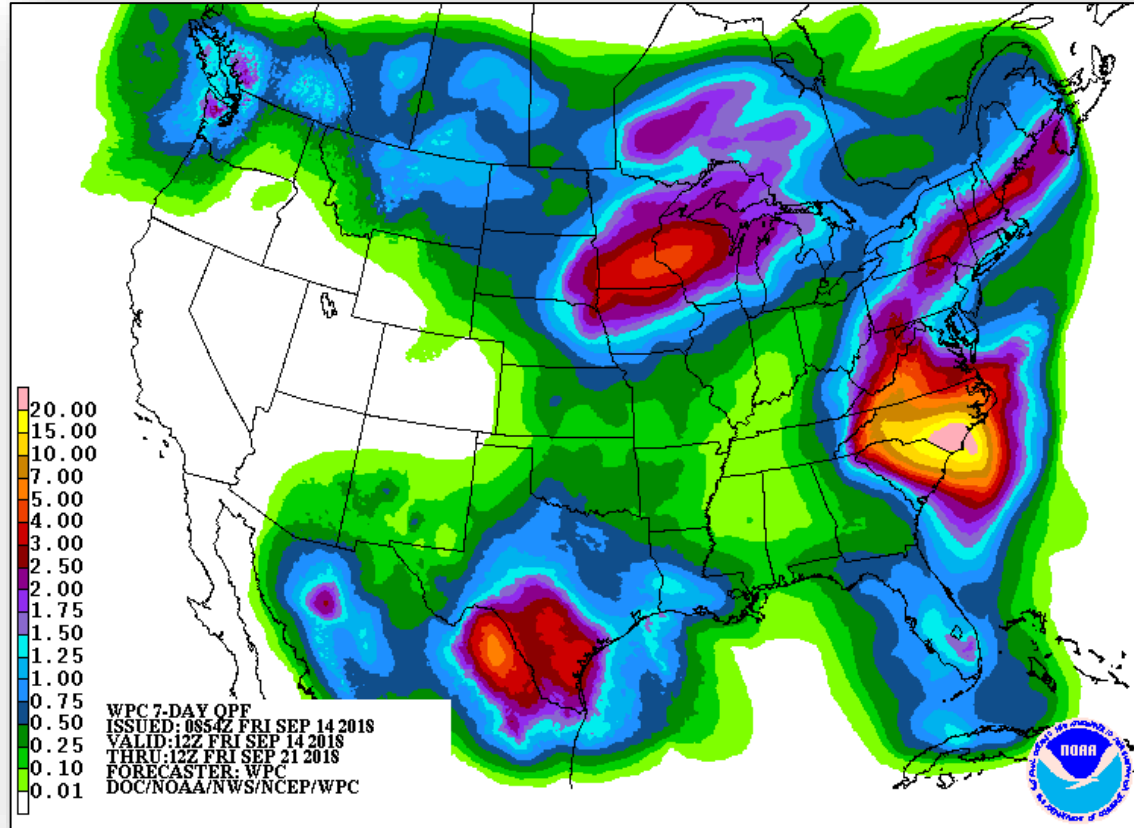


Sun

7-day Forecast Precipitation



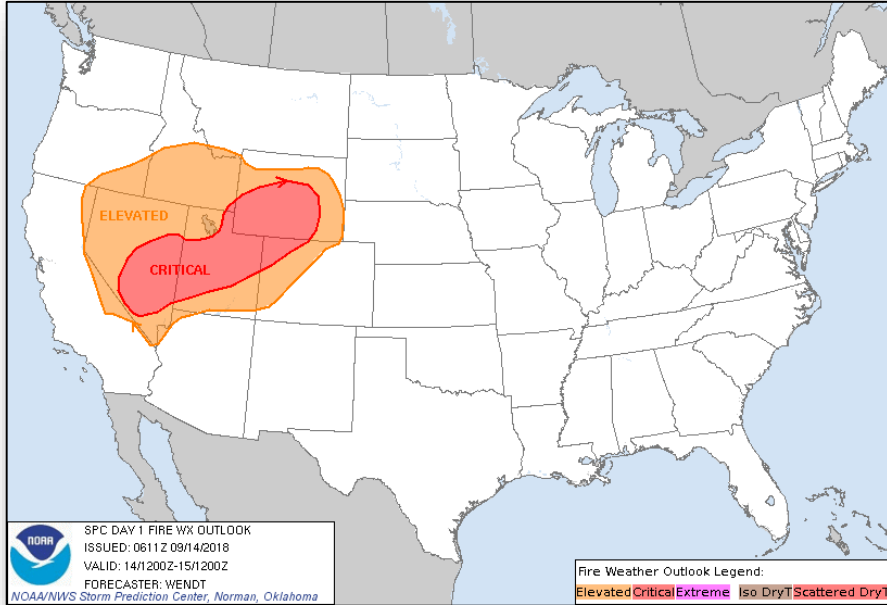
FEMA



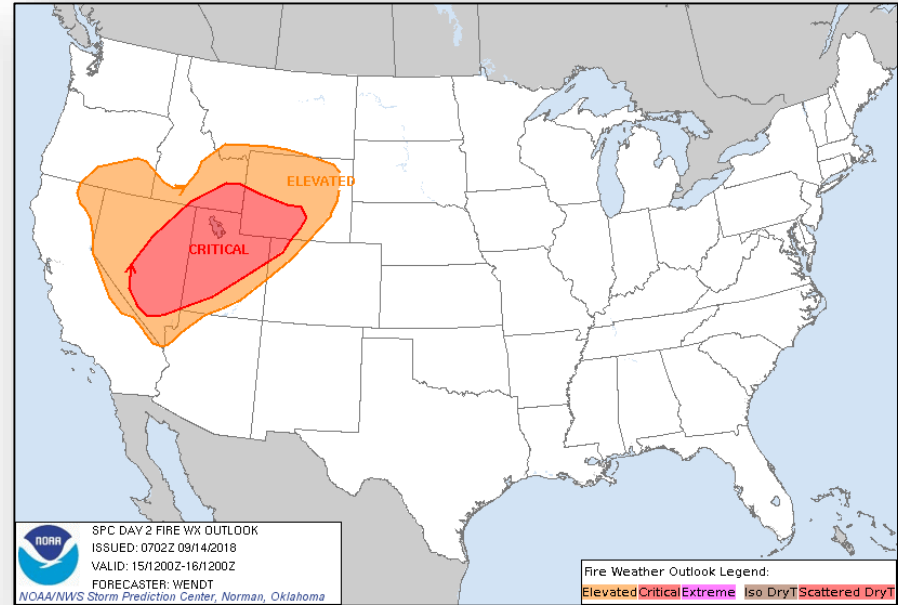
Fire Weather Outlook



FEMA



Friday

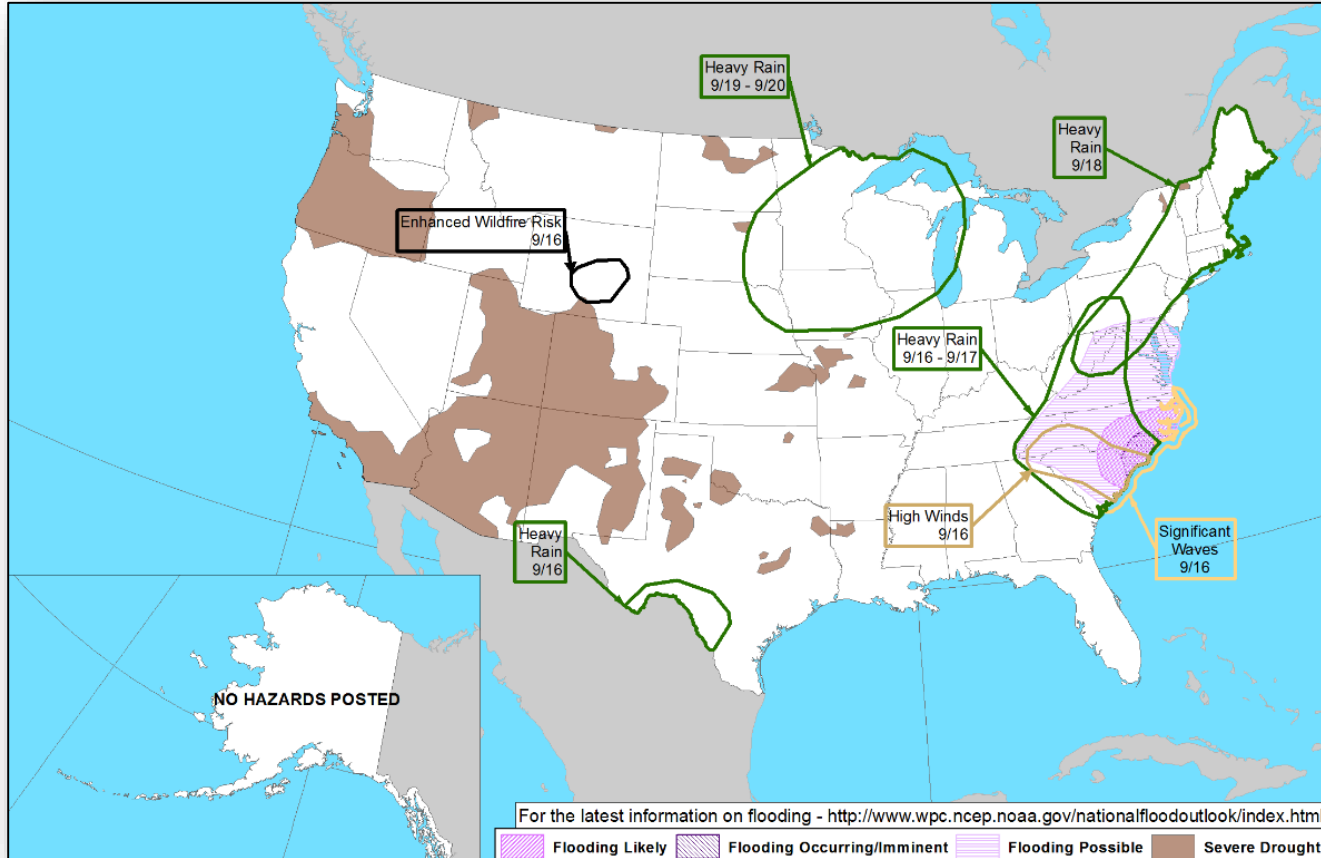


Saturday

Hazards Outlook – Sep 16-20



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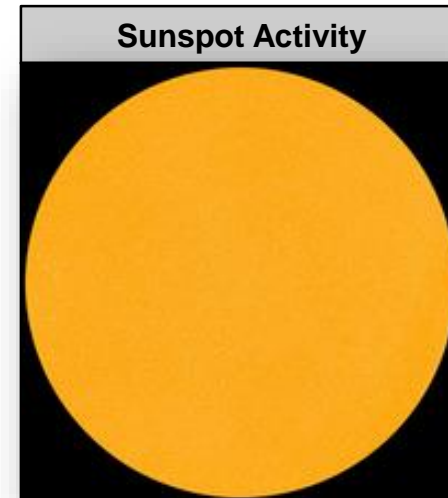
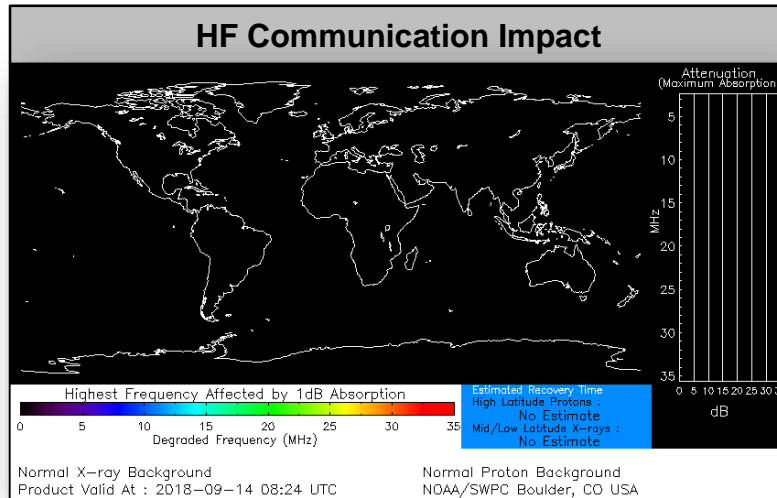
Space Weather



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	Space Weather Activity	Geomagnetic Storms	Solar Radiation	Radio Blackouts
Past 24 Hours	Minor	G1	None	None
Next 24 Hours	None	None	None	None

For further information on NOAA Space Weather Scales refer to: <http://www.swpc.noaa.gov/noaa-scales-explanation>



Joint Preliminary Damage Assessments



FEMA

Region	State / Location	Event	IA / PA	Number of Counties		Start – End
				Requested	Completed	
III*	PA	Severe Weather July 21-27, 2018	IA	12	5	9/5 – TBD
			PA	13	6	9/5 – TBD
	PA	Severe Weather August 10-15, 2018	IA	14	4	9/5 – TBD
			PA	15	2	9/5 – TBD

** Region III PDAs are paused to support R-III operations for Hurricane Florence. The remaining counties will be rescheduled in the future once staffing is available.*

Declaration Request



FEMA

North Carolina

- The Governor requested an expedited Major Disaster Declaration on September 13, 2018
- For Hurricane Florence beginning September 13, 2018 and continuing
- Requesting:
 - Individual Assistance
 - Public assistance for debris removal and emergency protective measures (Categories A and B), including direct Federal assistance for 22 Counties
 - Hazard Mitigation statewide



■ IA & PA

Disaster Requests & Declarations



FEMA

Declaration Requests in Process					Requests APPROVED (since last report)	Requests DENIED (since last report)
8	IA	PA	HM	Date Requested	0	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		

Readiness – Deployable Teams and Assets



FEMA

Resource	Force Strength	Available	Deployed	Other	Cadres with 25% or Less Availability
IM Workforce	11,852 ▲	2,844 ▲ 24%	5,618 ▲	3,390	DSA 13% (110/837); EHP 16% (61/389); ER 16% (7/43); FL 22% (35/157); FM 23% (61/265); HR 3% (7/235); IT 15% (93/629); LOG 6% (70/1,168); OPS 4% (10/259); PA 11% (200/1,823); PLAN 5% (16/340); SAF 6% (3/53); SEC 12% (13/108)
National IMATs* (1-2 Teams)	East 1: East 2: West:	Deployed Deployed B-48			
Regional IMATs (< 3 Teams)	Assigned: Available: PMC / NMC: Deployed:	13 1 1 11			
National ISBs (0 Teams)	Team A Team B Team C	Deployed Deployed Deployed			
US&R ($\geq 66\%$)	Assigned: Available: PMC / NMC: Deployed:	28 1 2 25			
MERS (33-65%)	Assigned: Available: PMC / NMC: Deployed:	36 19 (-1) 0 17 (+1)			
FCO (≤ 1 Type I)	Assigned: Available: PMC / NMC: Deployed:	33 13 (+6) 2 18 (-6)			
FDRC (≥ 3)	Assigned: Available: PMC / NMC: Deployed:	14 2 (-1) 3 (+1) 9			

Typhoon Mangkhut
R-X IMAT (Andersen AB)
ISB Team, MERS, RIX LNO

3402-EM-Mariana Island
FCO: Willie G. Nunn
JFO: TBD
MERS, R-VII IMAT, RIX LNO

3404-EM-HI
3399-EM-HI
FCO: Dolph A. Diemont
4366-DR-HI
FCO: Benigno Bern Ruiz
JFO: Honolulu, HI

Tropical Cyclone Support
Honolulu, Hilo, Maui
R-IX IMAT-1 (JFO - Honolulu)
ISB Teams, RIX LNO
MERS

Tropical Activity Support
Austin, TX
R-VI IMAT-1, LNO
FCO: Jerry S. Thomas

As of 3:00 a.m. EDT Sep 14, 2018

4382-DR-CA
FCO: William Roche
JFO: Sacramento, CA
R-IX IMAT-2

4388-DR-MT
FCO: James Stephenson
R-VIII HQ Denver, CO

4387-DR-NE
4386-DR-IA
4392-DR-IA
FCO: Timothy J. Scranton/
C. Johnson-Cage
JFO: Windsor Heights, IA

4359-DR-WV
4378-DR-WV
FCO: Steven S. Ward
JFO: Charleston, WV

4374-DR-MD
4376-DR-MD
FCO: Emily Breslin
R-III HQ: Philadelphia, PA

4368-DR-NJ
FCO: Lai Sun Yee
VJFO: Colts Neck, NJ

Field Offices ★
JFOs: 10
DRs: 38
EMs: 6
Deployed Teams (Location)

Hurricane Florence
NRCC Support (DC)
R-V IMAT, MERS, RII LNO, MERS

3403-EM-VA
FCO: Donald Keldsen
JFO: TBD
R-VIII, R-I IMAT
MERS
US&R: 2-Type 3, 3-MRP
Water Teams

3401-EM-NC
FCO: Albert Lewis
JFO: TBD
N-IMAT E1
R-IV IMAT 1 (NC EOC)
Composite IMAT
MERS, RIV LNO
US&R: Red IST, 3-Type 1, 4-Type 3, 12-MRP
Water Teams

3400-EM-SC
FCO: Elizabeth Turner
JFO: TBD
R-IV IMAT 2 (SC EOC)
MERS, RIV LNO
US&R: 4-Type 1, 1 MPR
Water Teams, 1 HEPP

4336-DR-PR
4339-DR-PR
FCO: Michael F. Byrne
JFO: Guaynabo, PR
MERS, RII LNO

4335-DR-USVI
4340-DR-USVI
FCO: Christopher Harnett
JFO: St. Croix, USVI
RII IMAT, LNO, MERS

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

FEMA Readiness – Activation Teams



FEMA

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



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