Hurricane Preparedness

Town of Edisto Beach and Colleton County Fire-Rescue (2024)

Introductions

Town of Edisto Beach

- Crawford Moore, Mayor
- Mark Aakhus, Town Administrator
- Dee Stalvey, Assistant Town Administrator
- Daniel Seyle, Police Chief
- Denney Conley, Fire Chief
- Patrick Brown, Building Official
- Patrick Zemp, Utilities Director
- Mike Casey, Colleton County EOC Representative
- Richard Barreto, Volunteer Fire Department President

Colleton County Fire-Rescue

- Dr. David Greene, Deputy Chief / Emergency Manager; Ms. Danielle Murdaugh
- SCEMD Christina Vickers

South Carolina Hurricane History

Hurricane Dorian, 2019, Cat 3

Hurricane's Florence and Michael, 2018

Hurricane Irma, 2017

Hurricane Matthew, 2016, Cat 1

Hurricane Joaquin,2015

Hurricane Gaston and Charley, 2004, Cat 2

Hurricane Kyle, 2002, Cat 2

Hurricane Hugo, 1989, Cat 4

Hurricane Gracie, 1959, Cat 3

Hurricane Hazel, 1954, Cat 4





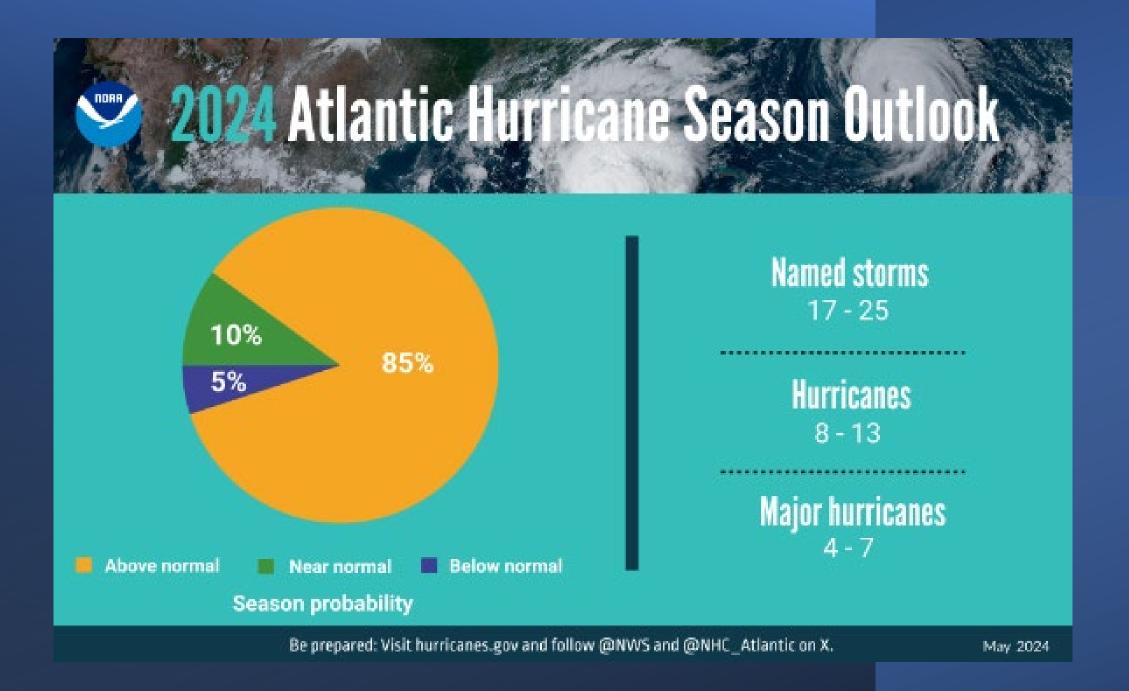
Tropical Storm Idalia





What to avoid

Hurricane Matthew - 2016



National Weather Service

Storm Surge Facts

- There will be more flooding if the highest surge occurs around high astronomical tide (compared to low tide)
- The coastal areas of SC/GA are very surge-prone given the low elevation and gently sloping continental shelf offshore
- In 1989, Hurricane Hugo produced the highest water levels ever recorded on the U.S. East Coast (~20 foot storm tide above Mean Sea Level at Bulls Bay, SC and ~10 foot storm tide above MSL in downtown Charleston, SC)



Romain Retreat, SC (near Bulls Bay) after Hugo (1989)



Edisto Beach, SC after Matthew (2016)

Know the difference between a Watch and a Warning Hurricane Watch - Issued 48 hours in advance of threat

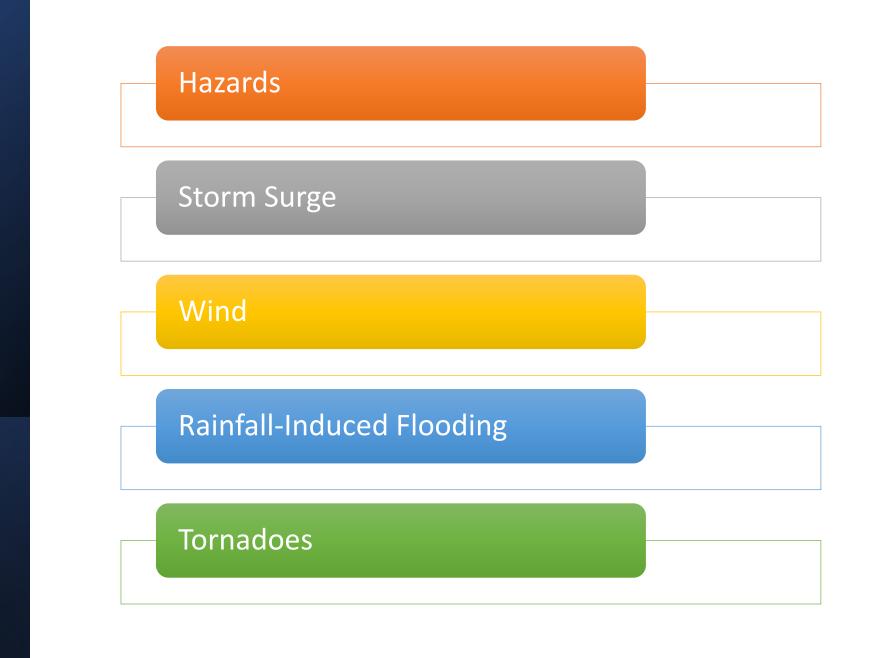
What do I do? – prepare your belongings and plan to evacuate if a Hurricane or Tropical Storm Warning is issued. Hurricane Warning - Issued 36 hours in advance of threat

What do I do? – finish storm preparations and immediately evacuate if directed by local officials. Plan housing and pet arrangements in advance.

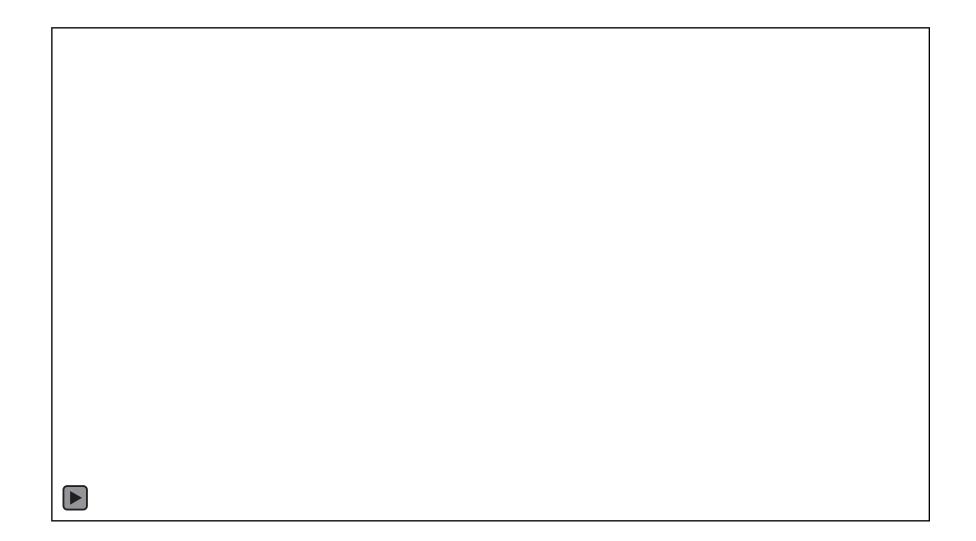
Danger is possible.

Danger is expected.

Threats to Edisto Beach



Saffir-Simpson Hurricane Wind Scale



Town of Edisto Beach Preparations

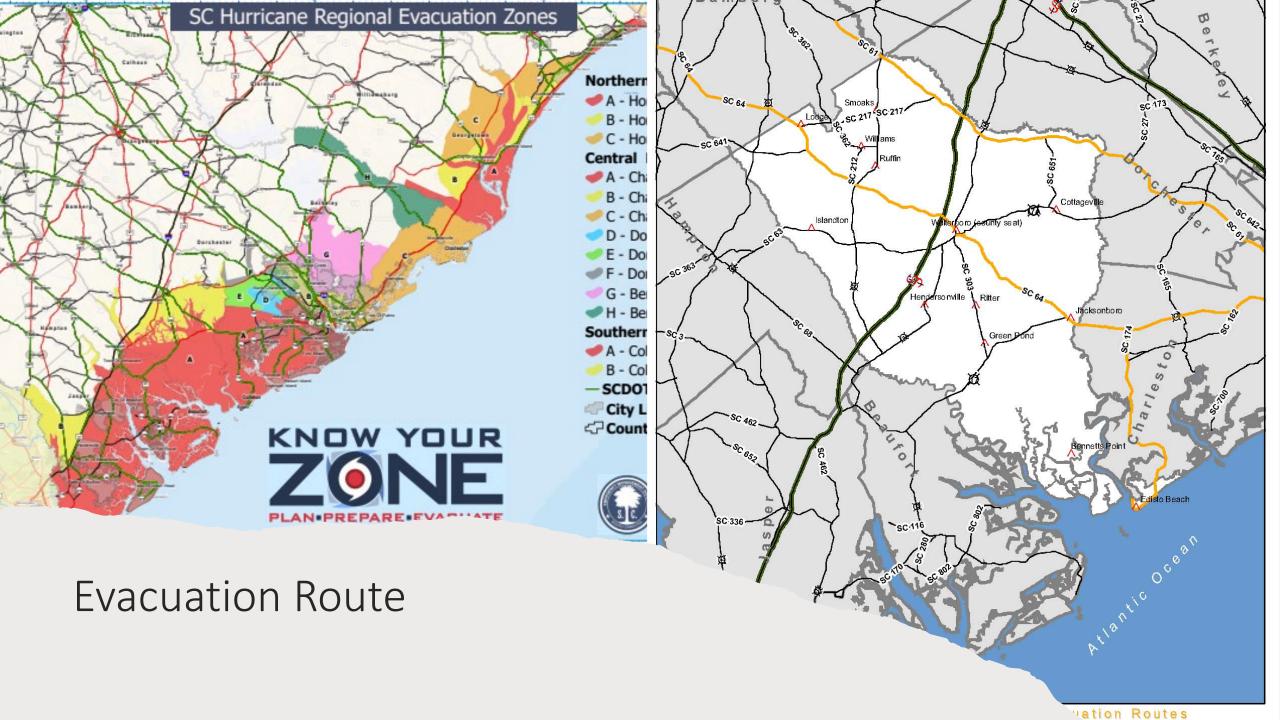
- Edisto Beach Emergency Operations Plan
- Staff meetings and Table-Top exercise with Colleton County
- Incident Command System (ICS)



Evacuations

- Notice will be provided through all available means of communications
 - CodeRED
 - Website
 - Email notifications
 - News media
 - No emergency shelters on the beach or island
 - Emergency personnel will evacuate





Re-Entry to Edisto Beach

Re-Entry is phased and dependent on conditions.

Occurs only after safety and damage assessments.

Limited entry.

Property owner decals. Applications can be found in your chairs and on the Town <u>Website</u>.

How to Prepare Your Home

- Insurance Coverage
- Remove outdoor objects
- Secure garbage cans
- Protect window openings with storm shutters
- Unplug appliances
- Lock doors and secure valuables

Resources

Sand and Sandbags

CodeRED – Community Notification System

South Carolina Emergency Manager App (iPhone and Android compatible)

https://www.scemd.org/stay-informed/mobileapplications/





Disaster Supply Kit (Visit <u>scemd.org</u> for more information)

3-day minimum preparation
Weather Alert Radio
Non-perishable food (don't forget a can opener)
Drinking water, two gallon per person per day
Flashlights, extra batteries
Cash or travelers' checks
First aid kit
Mess kit
Waterproof matches
Baby supplies
All prescription medication
Hygiene products
Sunscreen and bug spray
Important family documents

Planning for Your Pet

Crate/carrier

Leash/harness/bowls

3 days of water and food

Medications, health/vaccinations records, microchip numbers, photo of your pet

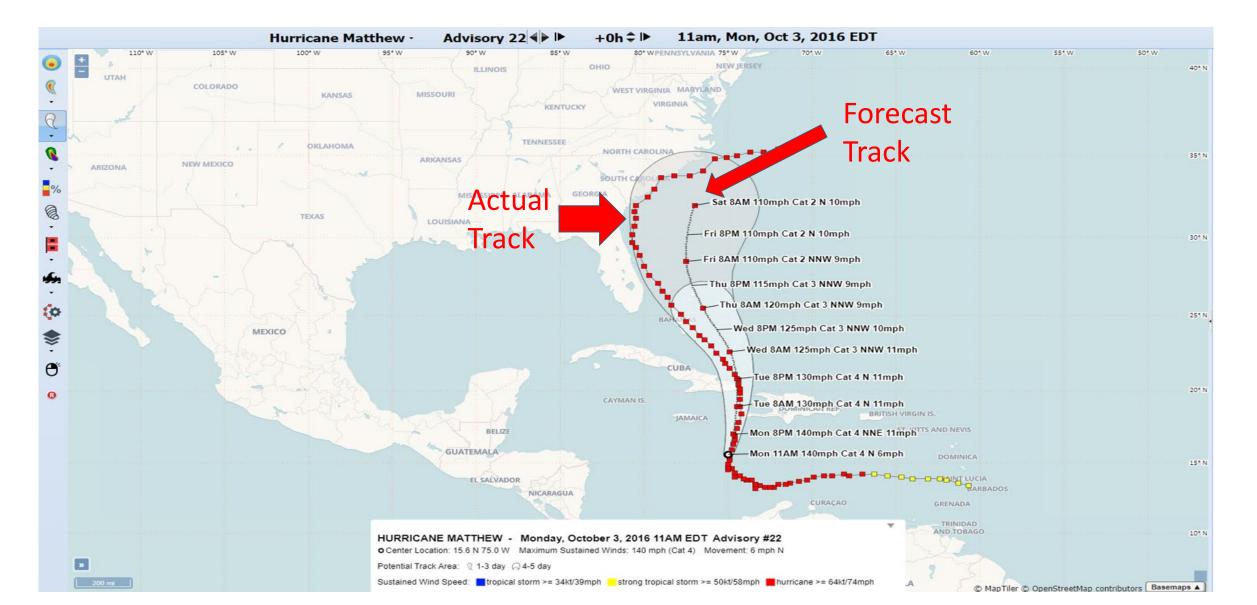
Lost

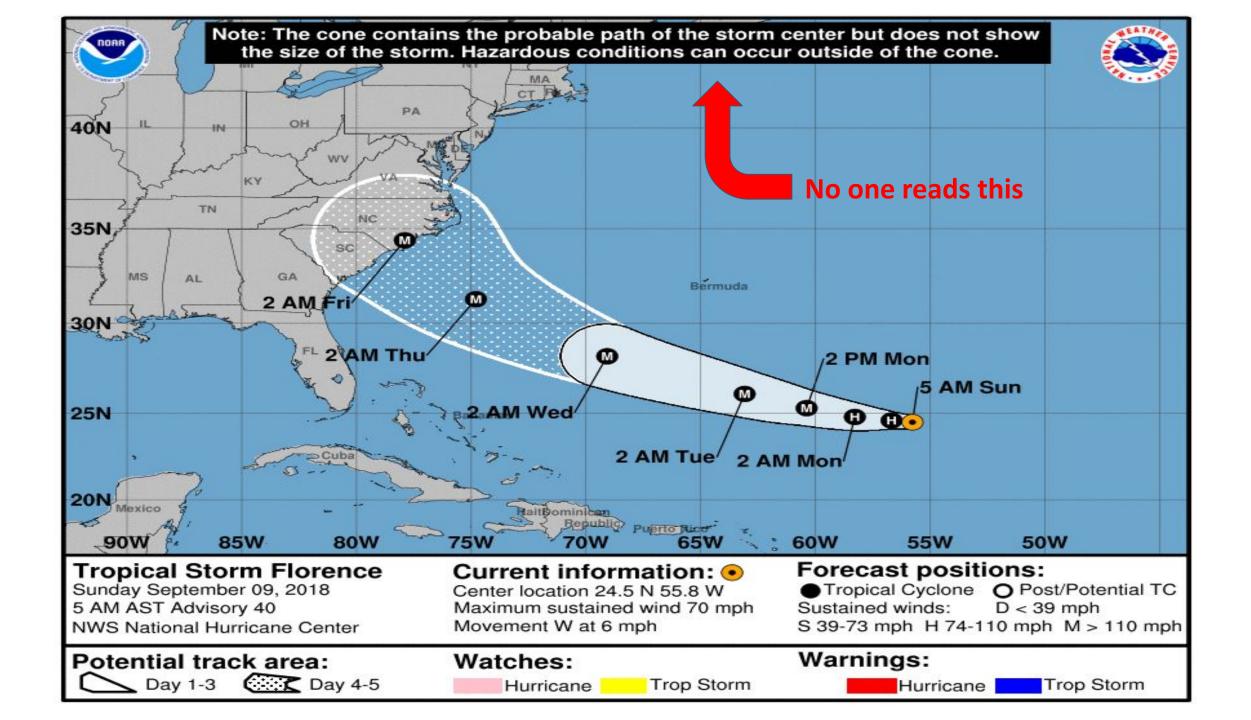


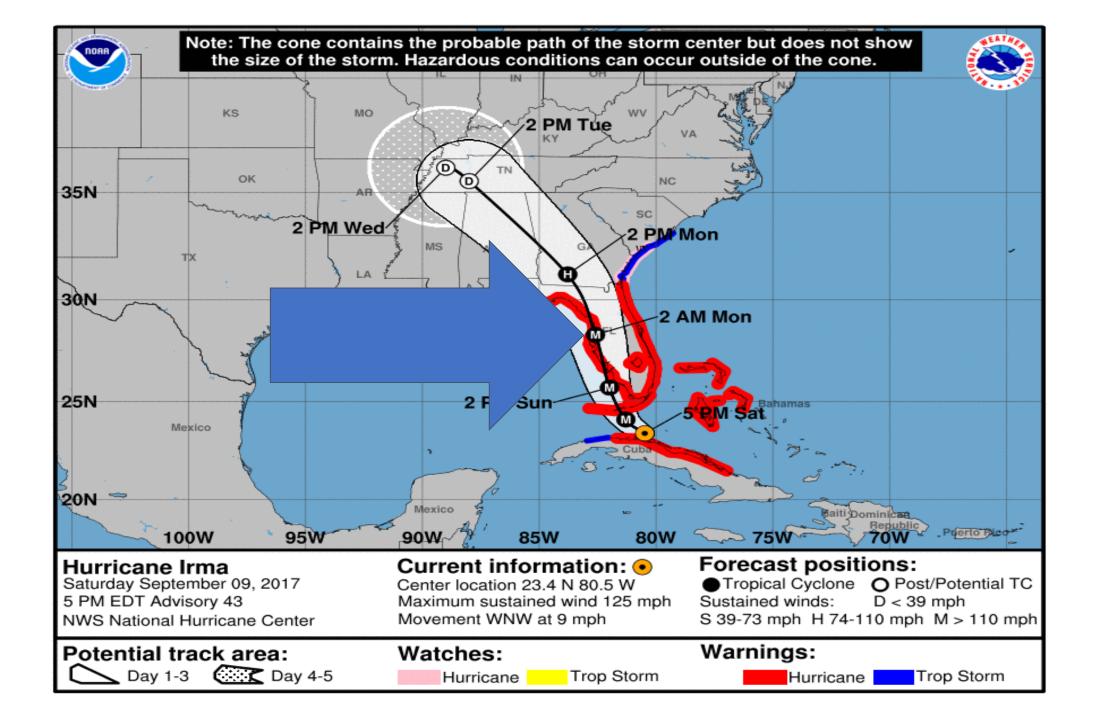
Dr. David Greene

Deputy Chief / Emergency Manager Colleton County Fire Rescue

The Cone of "Uncertainty" NOT the Cone of "Certainty"

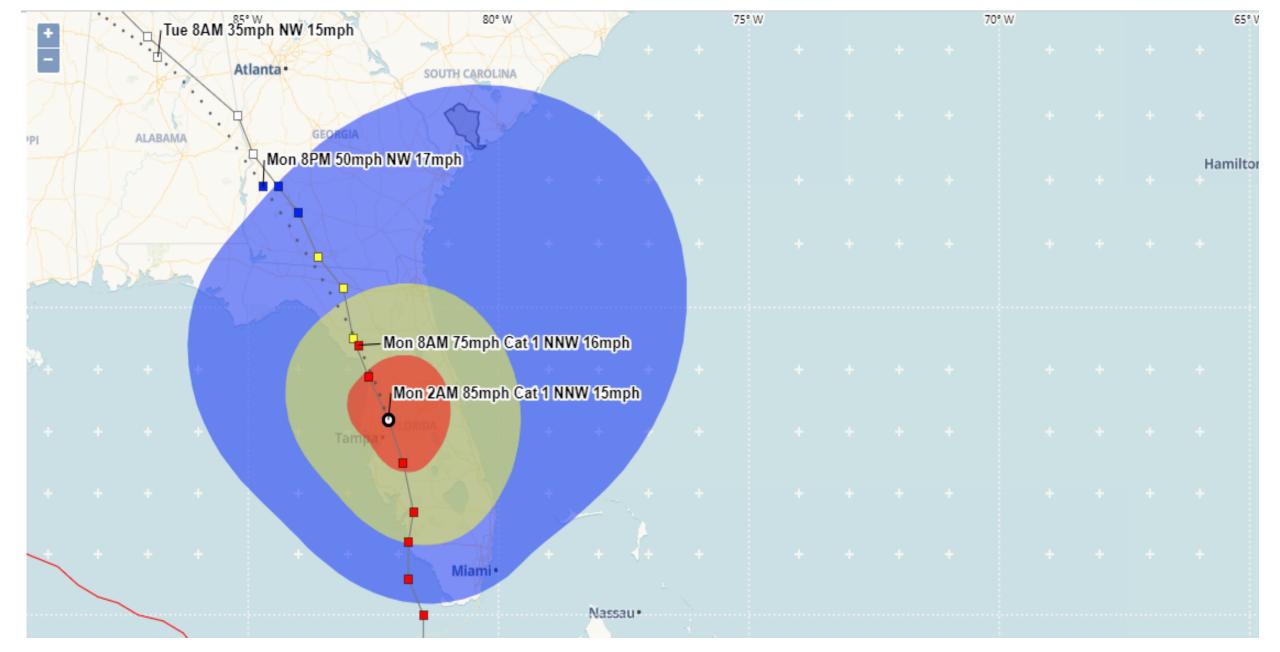






Hurricane Irma Advisory 48A < ► ► +0h 🗘 ►

2am, Mon, Sep 11, 2017 EDT



Edisto Beach



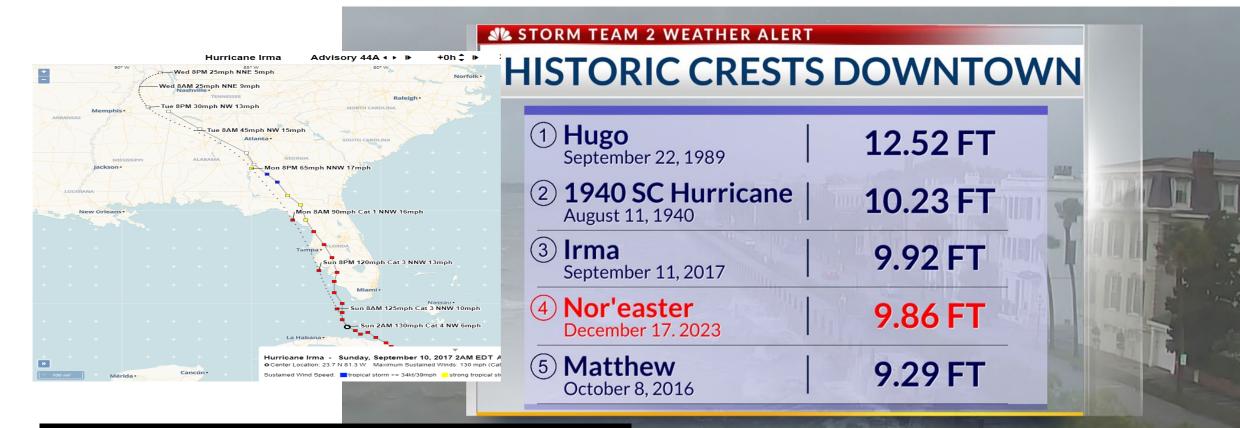




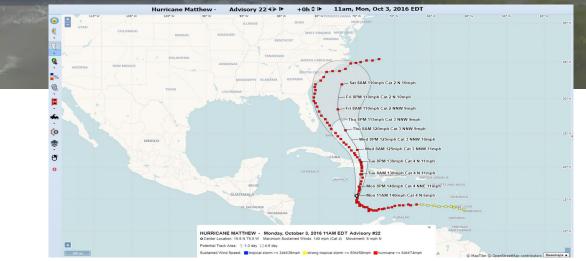


Tybee Island, GA





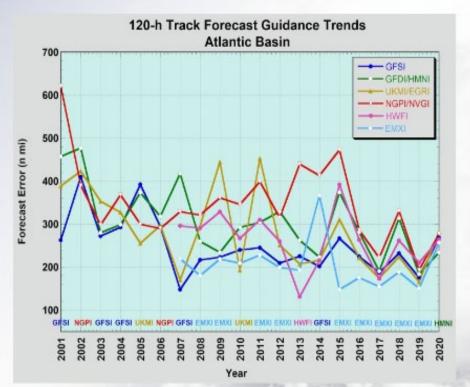
<u>Closest approaches to Colleton</u> <u>County</u> Hurricane Matthew = 25 miles Hurricane Irma = 174 miles



Remember, the NHC Cone represents where the center of the storm will travel 67% of the time and <u>NOT</u> the limit of the impacts of the storm.

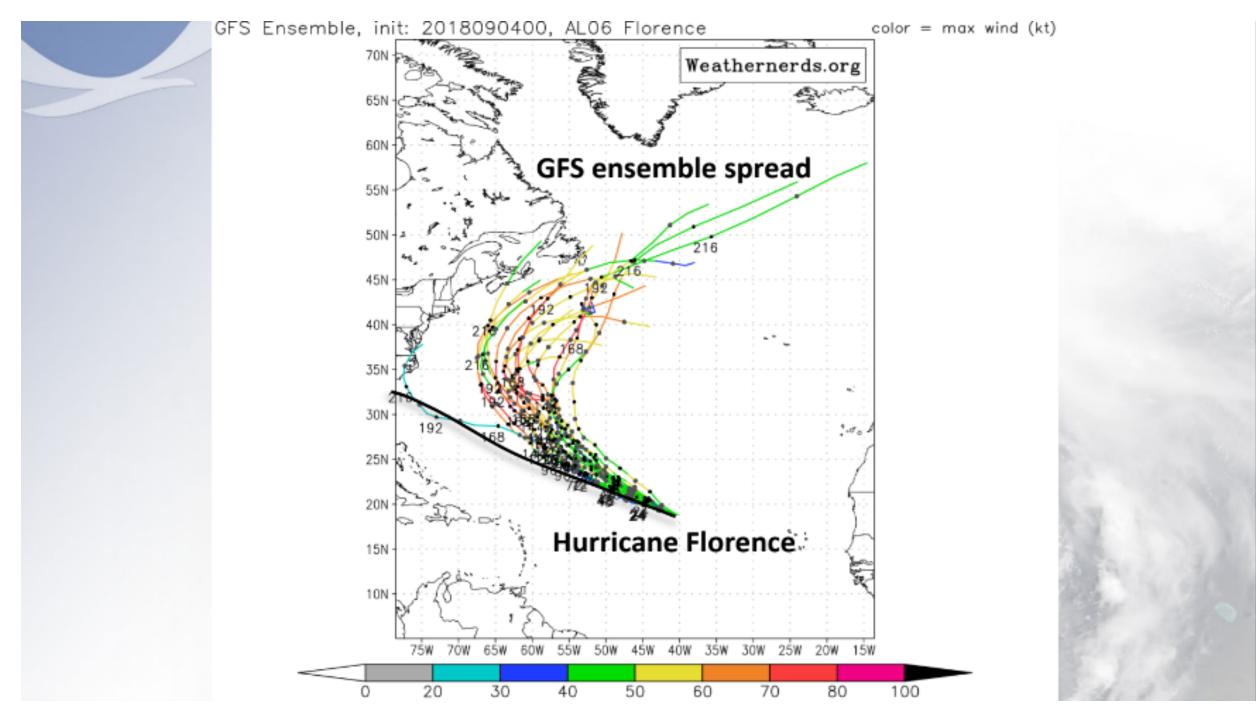
Which model should we look at?

Track Model Trends Best 5-day Track Model 2001-2020



Due to model changes and other factors, the best performing model often varies from season to season

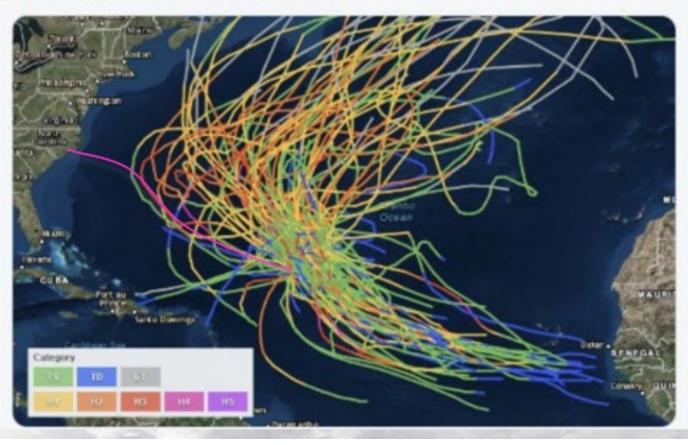
Euro model had a good run 2015 to 2019, but HMNI (Interpolated Hurricane Multi-Scale **Ocean-coupled Non**hydrostatic model) did best in 2020 and preliminary data for 2021 and 2022 says GFS did best those two years.



And of course, the Twitter posts



Sep 7 Jpdating yesterday's tidbit... as of Friday morning's advisory, 79 named storms have passed within 200 nautical miles of #Florence's position since 1851, and not one has ever come close to the U.S. coast.

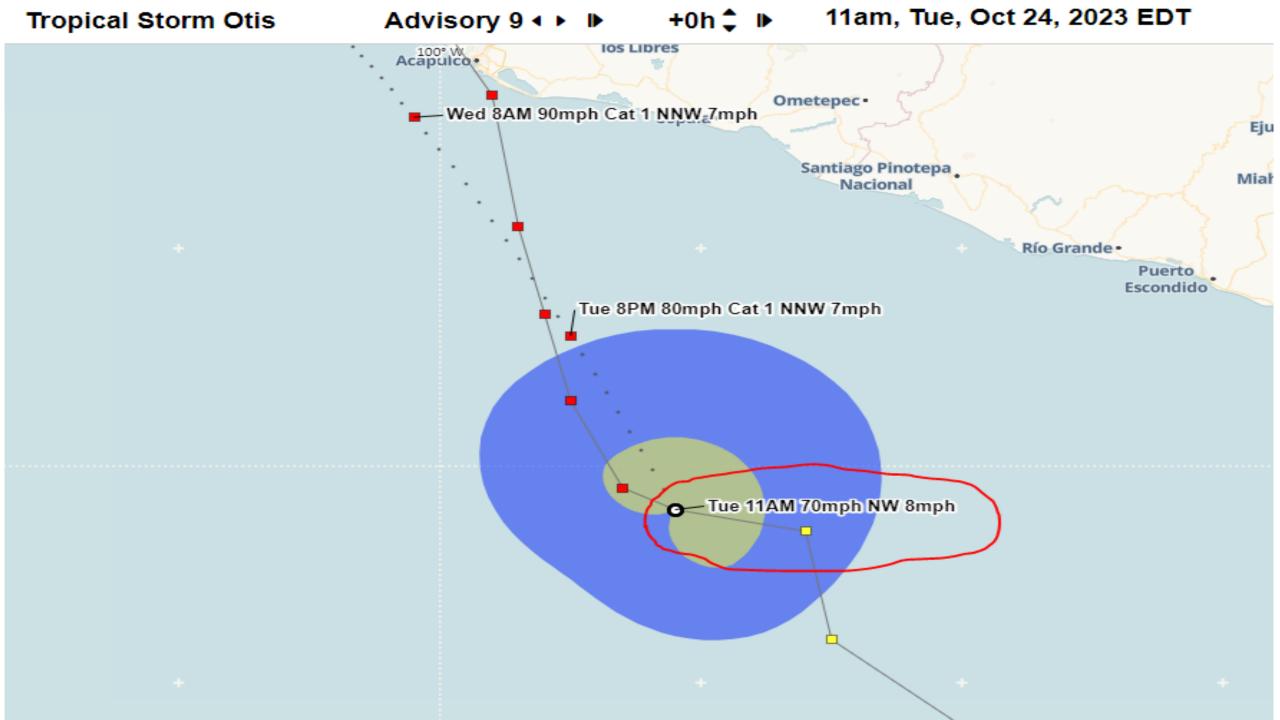


The Official National Hurricane Center Forecast is the only model that is touched by a human.

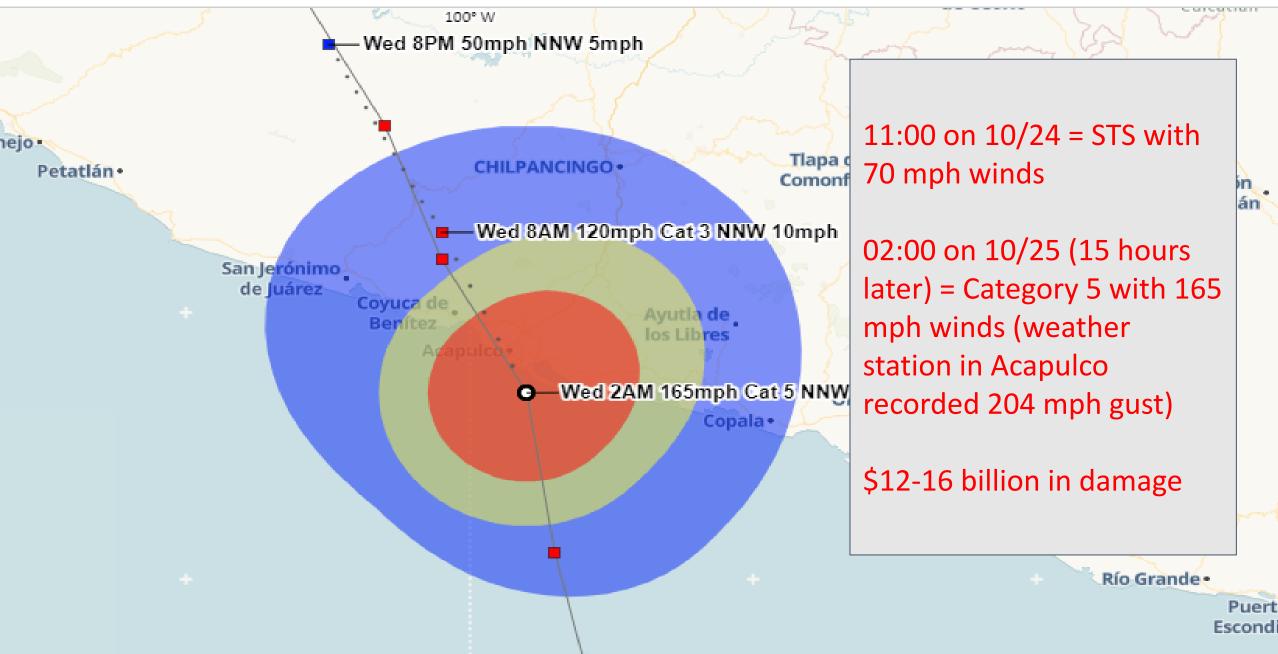
Rapid Intensification

The four Category 5 hurricanes to make landfall in the United States were all tropical storms just three days before landfall, providing a reminder of why you should be prepared before the season begins in case there are rapidlyintensifying storms

	Wind Speed 3 days prior to landfall	Wind Speed at Landfall		
Storm (Year)	(Date)	(Date)		
Michael (2018)	50 mph (10/7/2018)	160 mph (10/10/2018)		
Andrew (1992)	55 mph (8/21/1992)	165 mph (8/24/1992)		
Camille (1969)	60 mph (8/14/1969)	175 mph (8/17/1969)		
Labor Day (1935)	60 mph (8/31/1935)	185 mph (9/2/1935)		



Hurricane Otis Advisory 12A ◀ ► ► +0h ♣ ► 2am, Wed, Oct 25, 2023 EDT



Remember Category DOES NOT include surge

No More Surge in the Saffir-Simpson Scale!



Category		Wind speed		Storm surge		
	mph	km/h	kn	ft	m	
Five	≥156	≥ 250	≥ 136	> 18	- 5.5	KATRINA (IKE (2) SANDY (1) ISAAC (1) CHARLEY
Four	131-155	210-249	114-135	13-18	4.0-5.5	
Three	111-130	178-209	96-113	9-12		
Two	96-110	154-177	83-95	6-8	1.8-2.4	
One	74–95	119-153	64-82	4-5	1.2-1.5	of B at L
		Additional clas	sifications			
Tropical storm	39–73	63–117	35-63	0–3	00.9	
Tropical depression	0–38	0-62	0–34	0	0	

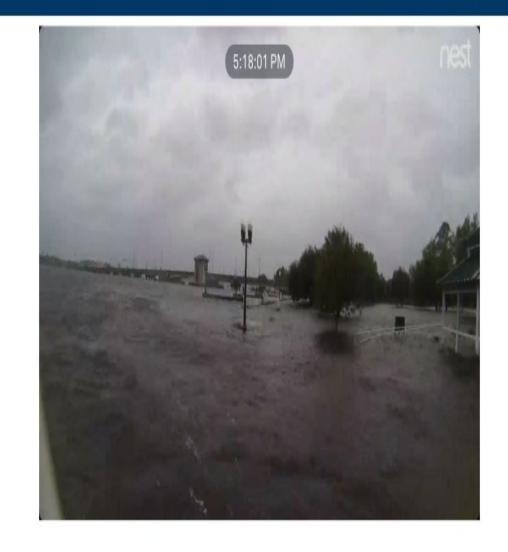
(it fits like a square peg in a round hole)

New Bern, NC – Hurricane Florence











Know Your Zone - Edisto is in Zone A

Follow <u>Trusted</u> Sources of Information (NHC, NWS, SCEMD, Local Officials)

Have a plan, follow evacuation orders (we will), and plan for pets

How do you get information before a storm? 1. Follow Edisto / Colleton / SCEMD Social Media 2. Register for Code RED at <u>www.colletonfire.com/codered</u>

3. Monitor <u>www.nhc.noaa.gov</u>

Important Contact Information Edisto Beach Town Hall: 843-869-2505, townofedistobeach.com

Colleton County Fire-Rescue: 843-539-1960, colletonfire.com/em

Colleton County Emergency Operations Center: 843-549-5632

S.C. Emergency Management Division (SCEMD): scemd.org

National Hurricane Center: hurricanes.gov



Questions?