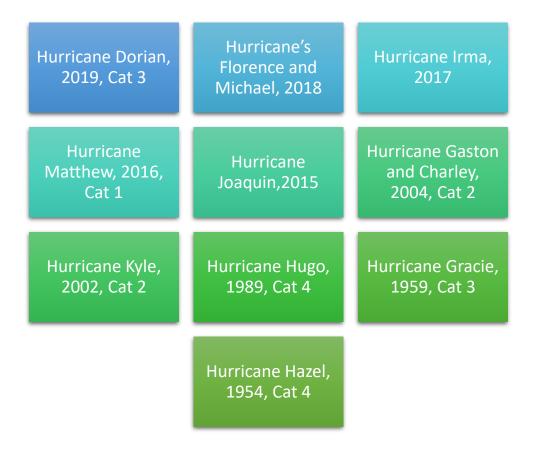
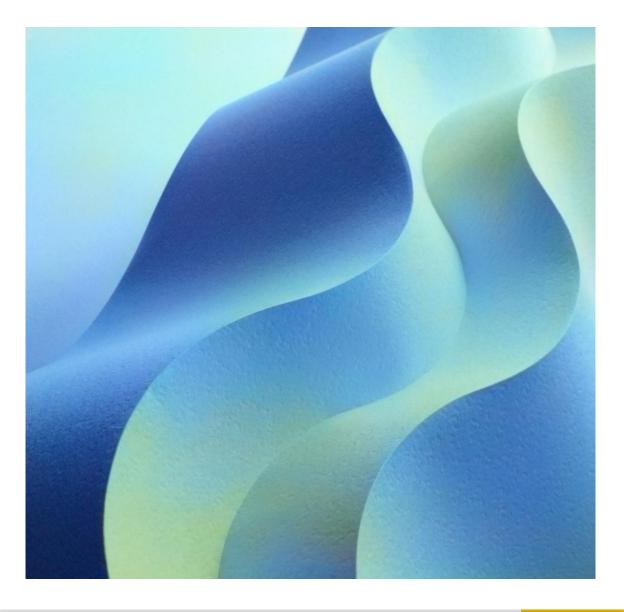
Hurricane Preparedness

Town of Edisto Beach and Colleton County Fire-Rescue (2023)

Introductions

South Carolina Hurricane History





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)



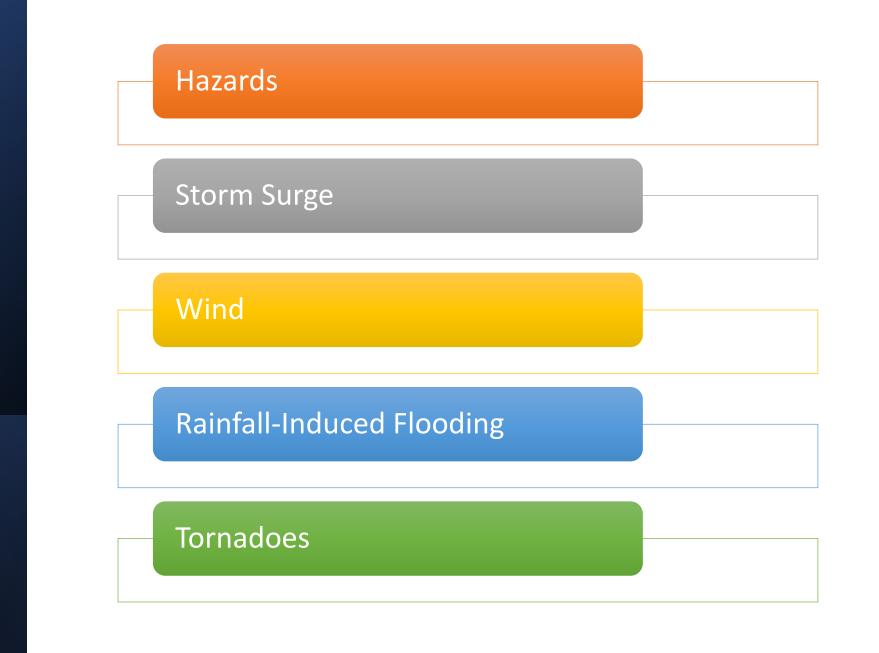
Edisto Beach, SC after Matthew (2016)

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.

Threats to Edisto Beach



Saffir-Simpson Hurricane Wind Scale

Hurricane Intensity Scale (Wind Damage)

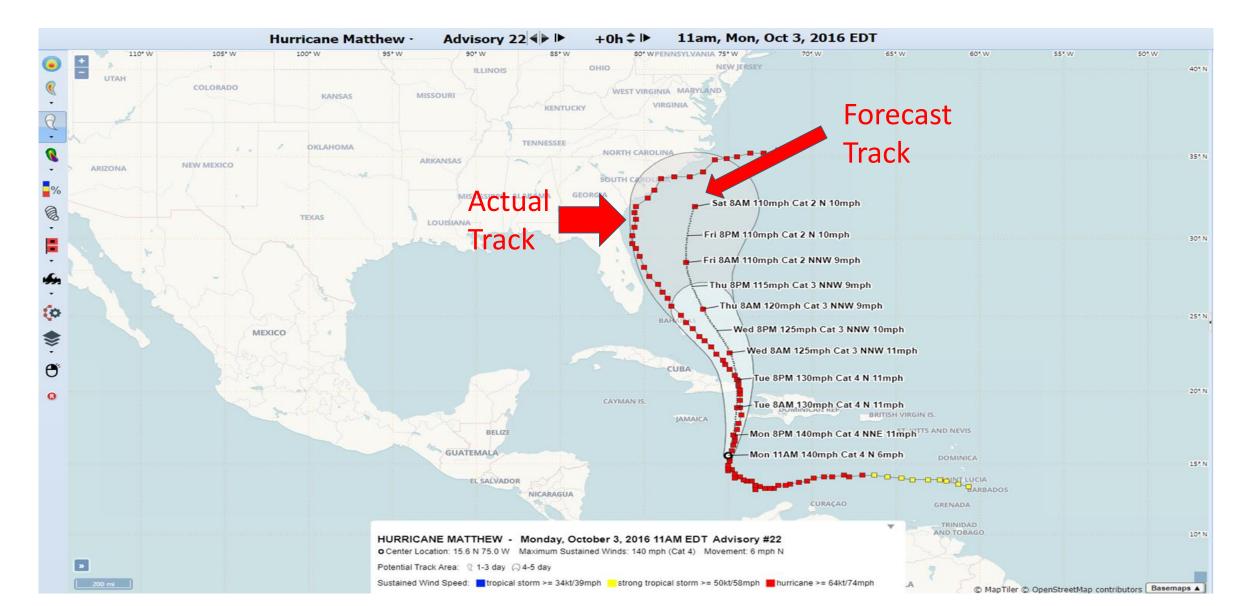


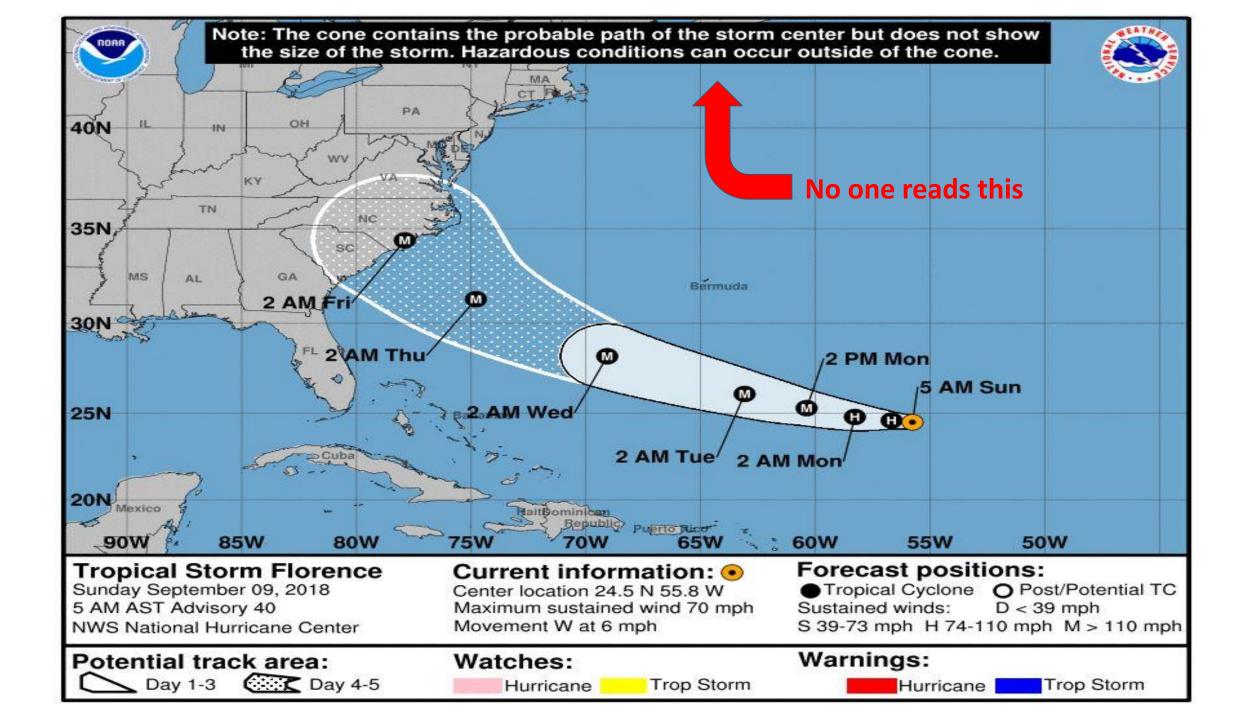
©The COMET Program

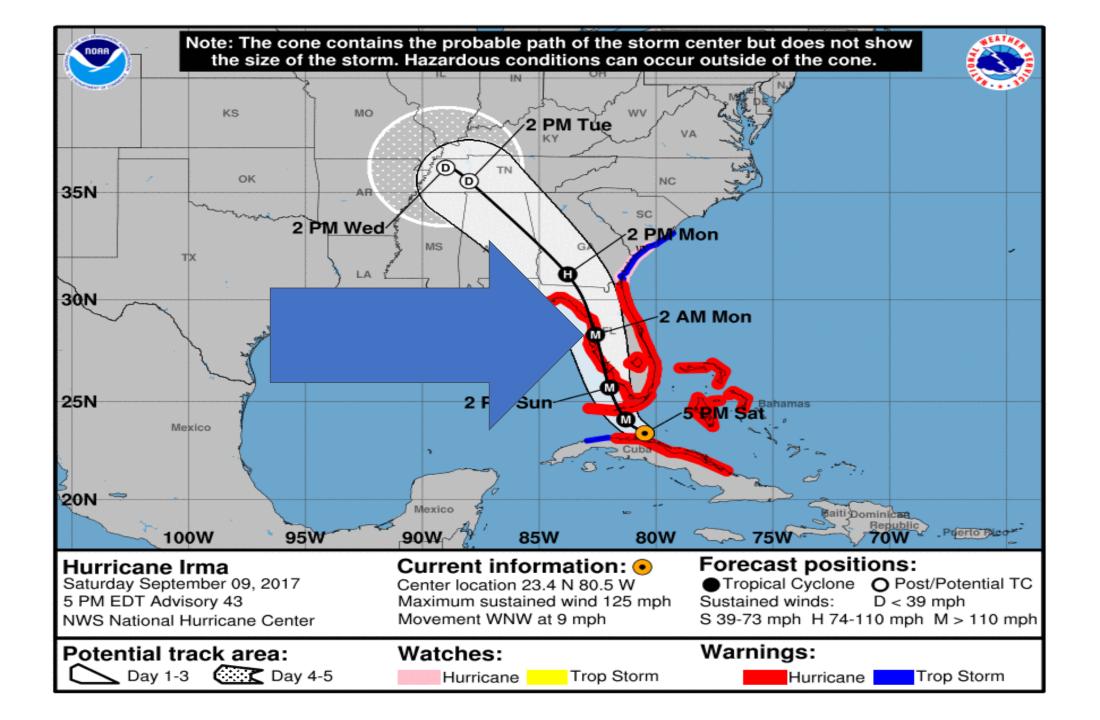
Dr. David Greene

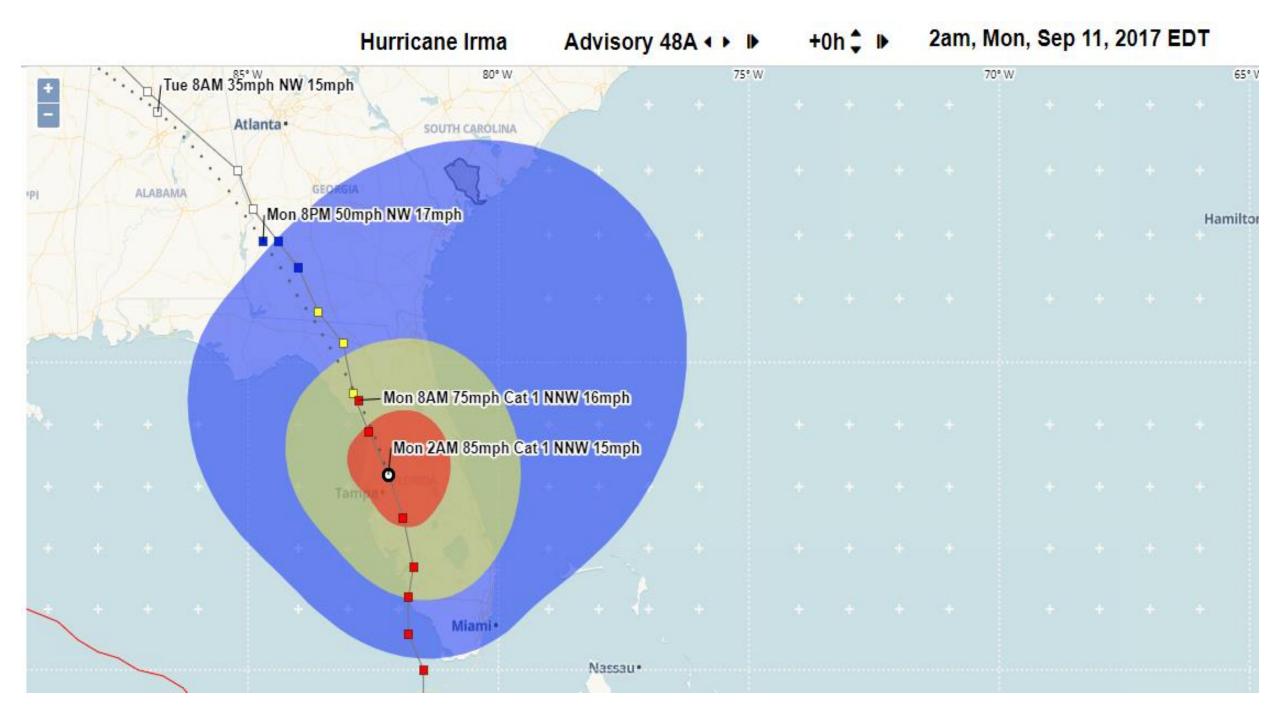
Deputy Chief / Emergency Manager Colleton County Fire Rescue

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









Edisto Beach







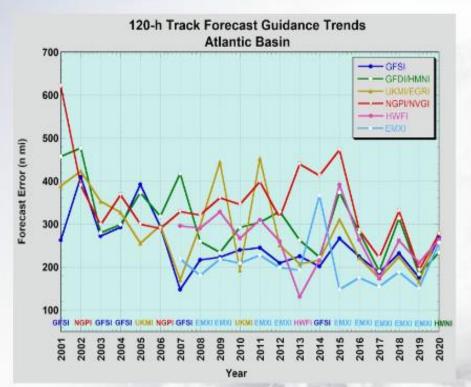


Tybee Island, GA



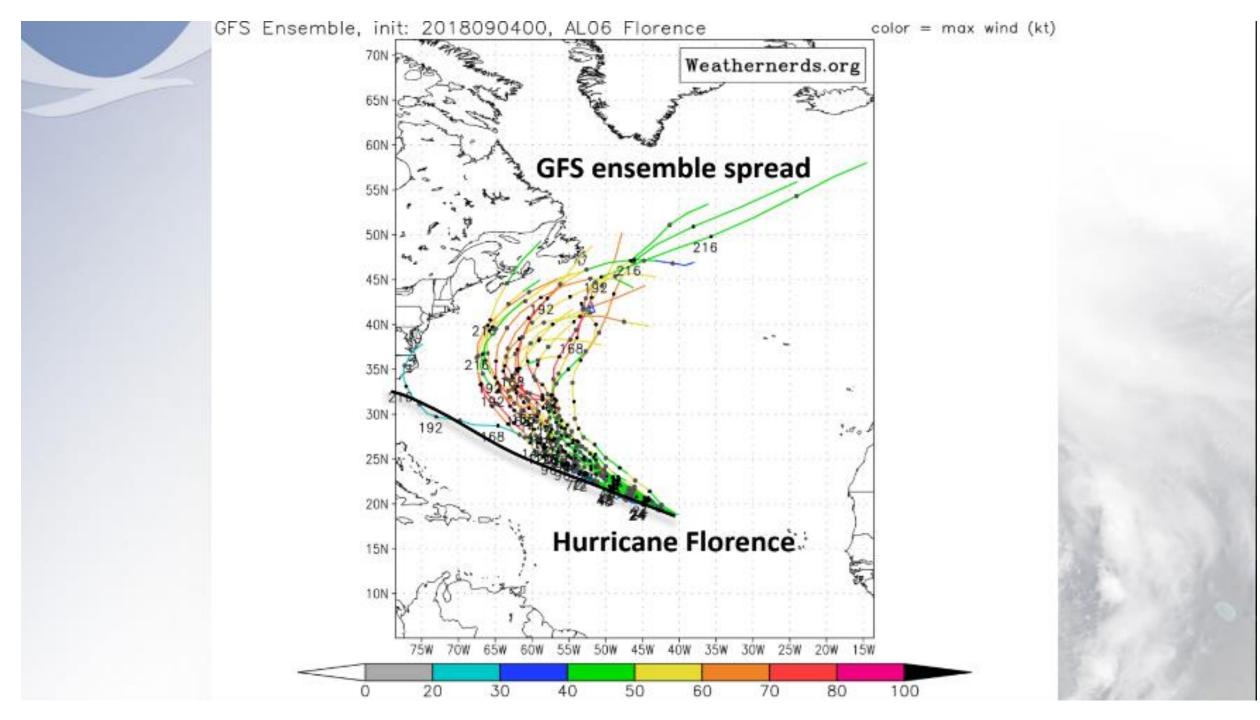
Which model should we look at?

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

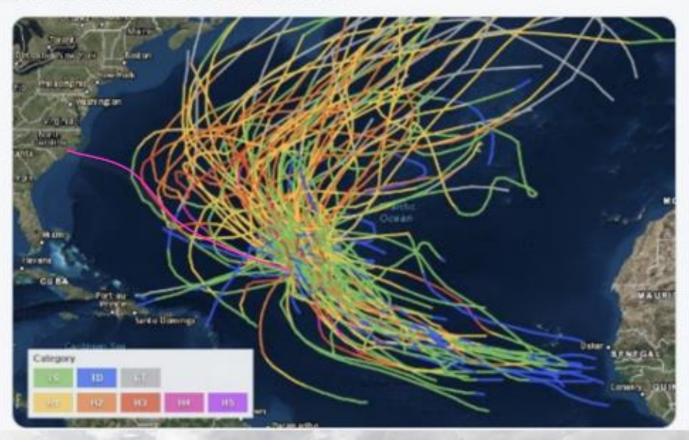
Euro model had a good run 2015 to 2019, but HMNI (Interpolated Hurricane Multi-Scale **Ocean-coupled Non**hydrostatic model) did best in 2020 and preliminary data for 2021 and 2022 says GFS did best those two years.



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.

Remember Category DOES NOT include surge

No More Surge in the Saffir-Simpson Scale!



Category	Wind speed Stor				m surge	
	mph	km/h	kn	ft	m	
Five	≥156	≥ 250	≥136	> 18		KATRINA (3)
Four	131-155	210249	114-135	13-18	4.0-5.5	IKE (2)
Three	111-130	178-209	96-113	9-12		SANDY (1) ISAAC (1)
Two	96-110	154-177	83-95	6-8	1.8-2.4	CHARLEY (4
One	74-95	119-153	6482	4-5	1.2-1.5	
		Additional clas	sifications			
Tropical storm	39-73	63–117	35-63	03	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



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

Town of Edisto Beach Preparations

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



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

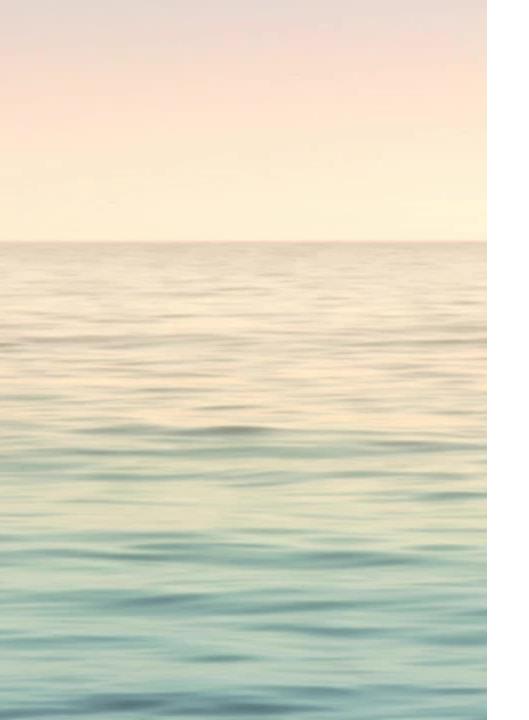
Leash/harness/bowls

3 days of water and food

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

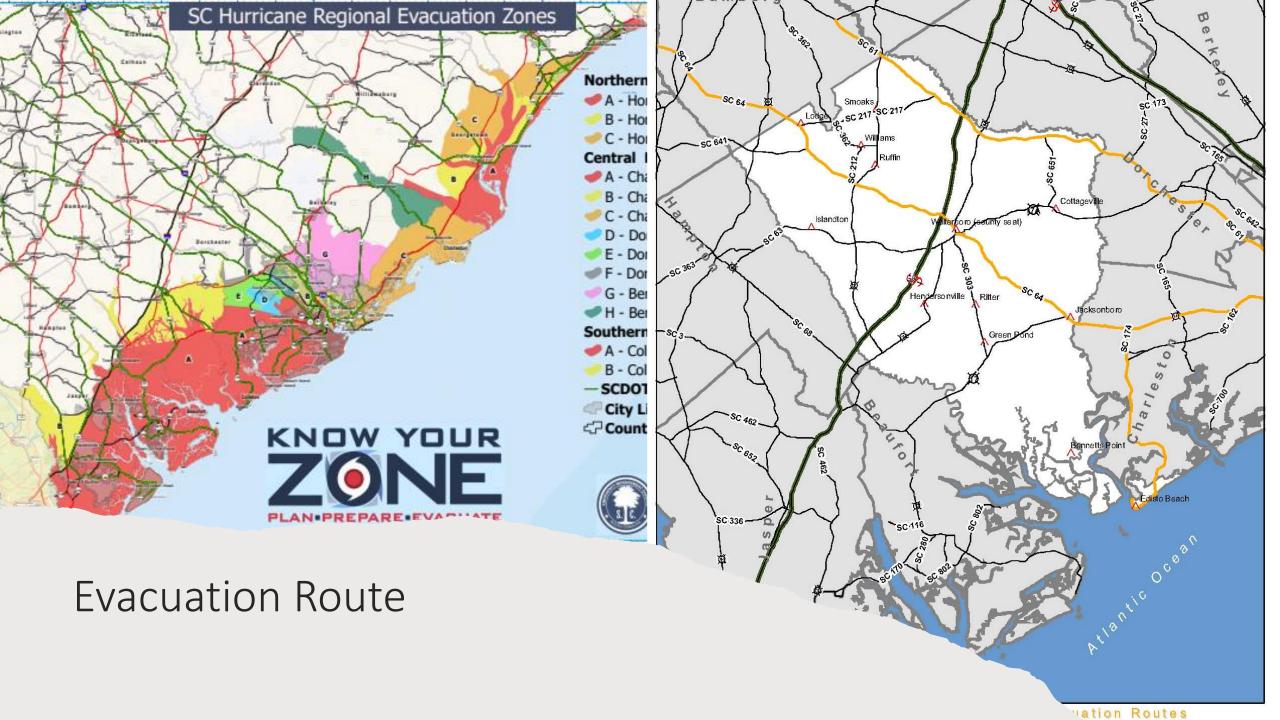
Lost





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>.

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?