Beaufort County
Weekly Operations Briefing
July 5, 2019 thru July 11, 2019

Beaufort County
Weekly Operations Briefing
Disclaimer

This weekly briefing is provided by the Beaufort County Sheriff's Office Emergency Management Division every Friday. This information is gathered from Open Sources and can be disseminated freely.

One person killed, 6 treated at hospital in South Carolina after lightning strikes tree

The lightning strike occurred along the Black River in Andrews. The six people injured are all in fair condition, the hospital said.

July 4, 2019, 4:36 PM EDT

By Austin Mullen and Phil Helsel

One person was killed and six others were treated at a hospital Thursday after lightning struck a tree they were standing under, authorities in South Carolina said.

The incident happened at the Black River in the area of Lawshe Plantation in Andrews, which is in Georgetown County. NBC affiliate WIS reported that the lightning strike happened at a cookout, citing a homeowner who lives nearby.

A spokesperson for Tidelands Georgetown Memorial Hospital said it received a total of seven patients from the lightning strike, including the person who died.

Four patients walked into the hospital and the other two who survived were transported by ambulance, and all are in fair condition, the spokesperson said.

The nearby homeowner told WIS that a group of people were boating in the Black River and stopped at Lawshe Plantation and were cooking out on the shore when the lightning strike occurred.

Dave Loewenthal, forecaster for the National Weather Service's Wilmington, North Carolina, office, which covers Georgetown County in South Carolina, said the lightning strike happened around 2:10 p.m.

He said over 1,000 lightning strikes were seen on radar over several counties at the time, but he was not aware of any other injuries.

There are currently no severe storm warnings for the area, but isolated lightning strikes are possible, Loewenthal said. In general, people should be cautious when there is the possibility of lightning, he said.

"If you can hear thunder, that generally means lightning's within 10 miles," Loewenthal said.

Andrews is a town of around 2,800 about 50 miles northeast of Charleston.

https://www.nbcnews.com/news/us-news/one-person-killed-two-others-hospitalized-south-carolina-after-lightning-n1026646

Lightning

Do's and Don'ts

Do

Go Inside When You Hear Thunder or See Lightning!

Find a Sturdy House, Building, Car With A Roof

Stay Indoors For at Least 30 Minutes After You Last Hear Thunder

Don't

Retreat to Dugouts, Sheds, Pavilions, Picnic Shelters or Other Small Structures

Use or Touch Electronics, Outlets, Corded Phones or Windows

Go Under or Near Tall Trees, Swim or Be Near Water, Stand Near Metal Objects

weather.gov/lightning

SAFETY Enlightenment

Lightning MYTHS & Shocking FACTS:

MYTH
If it's not raining or cloudy, you're safe from lightning.

FACT
If you can hear thunder, lightning is nearby. Lightning often strikes over ***10 miles*** from the center of a thunderstorm.

MYTH
In the event of a lightning strike, the rubber in a car's tires protect occupants from being harmed.

FACT
Lightning travels at about 220,000,000 mph and will have exited the body by the time you approach. Check for a pulse and render first aid if possible. ***Call 911 immediately.***

MYTH
A lightning strike victim carries a charge and should not be touched.

FACT
If struck, it is the ***metal frame*** of the car that provides protection. The charge travels through the frame and into the ground without harming occupants if they avoid touching anything that conducts a charge.

PROTECT YOURSELF

:30

Use the ***30/30 rule***: When you see lightning, count until you hear thunder. If that time is ***30 seconds*** or less, the thunderstorm is within six miles of you and is dangerous. Immediately seek shelter indoors or in a hardtop vehicle and remain until you have not heard thunder for ***30 minutes***.

Don't touch concrete surfaces, including those in a basement or garage. Lightning can travel through the metal wires in concrete walls and flooring.

Stay off corded phones and plugged in electronics.

Avoid plumbing and water, including bathing or doing laundry.

Never seek shelter under trees, poles or other tall structures as they are more likely to be struck by lightning.

PROTECT YOUR PROPERTY

Unplug appliances and other electrical items, such as computers and televisions, to prevent damage from surges caused by lightning strikes.

Surge protection can help prevent damage to your electronics. There are two types of surge protection:

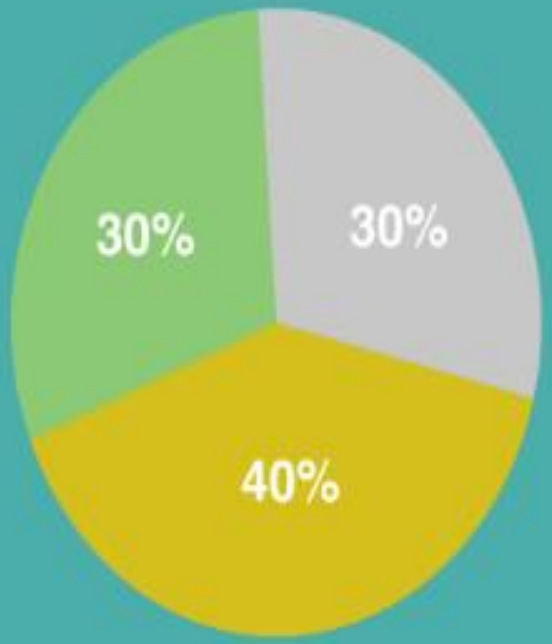
Point-Of-Use Surge Protection:
Protects only the items that are directly plugged into the device from most electrical surges.

"Whole Home" Surge Protection:
Located at your main electrical panel or the base of the electric meter, this device provides protection for your entire electrical system.

*However, neither type can safeguard against a direct lightning strike. If you live in an area prone to lightning, consider a **lightning protection system**.*

HURRICANE
SEASON 2019

2019 Atlantic Hurricane Season Outlook



Above-normal Near-normal Below-normal season

Season probability

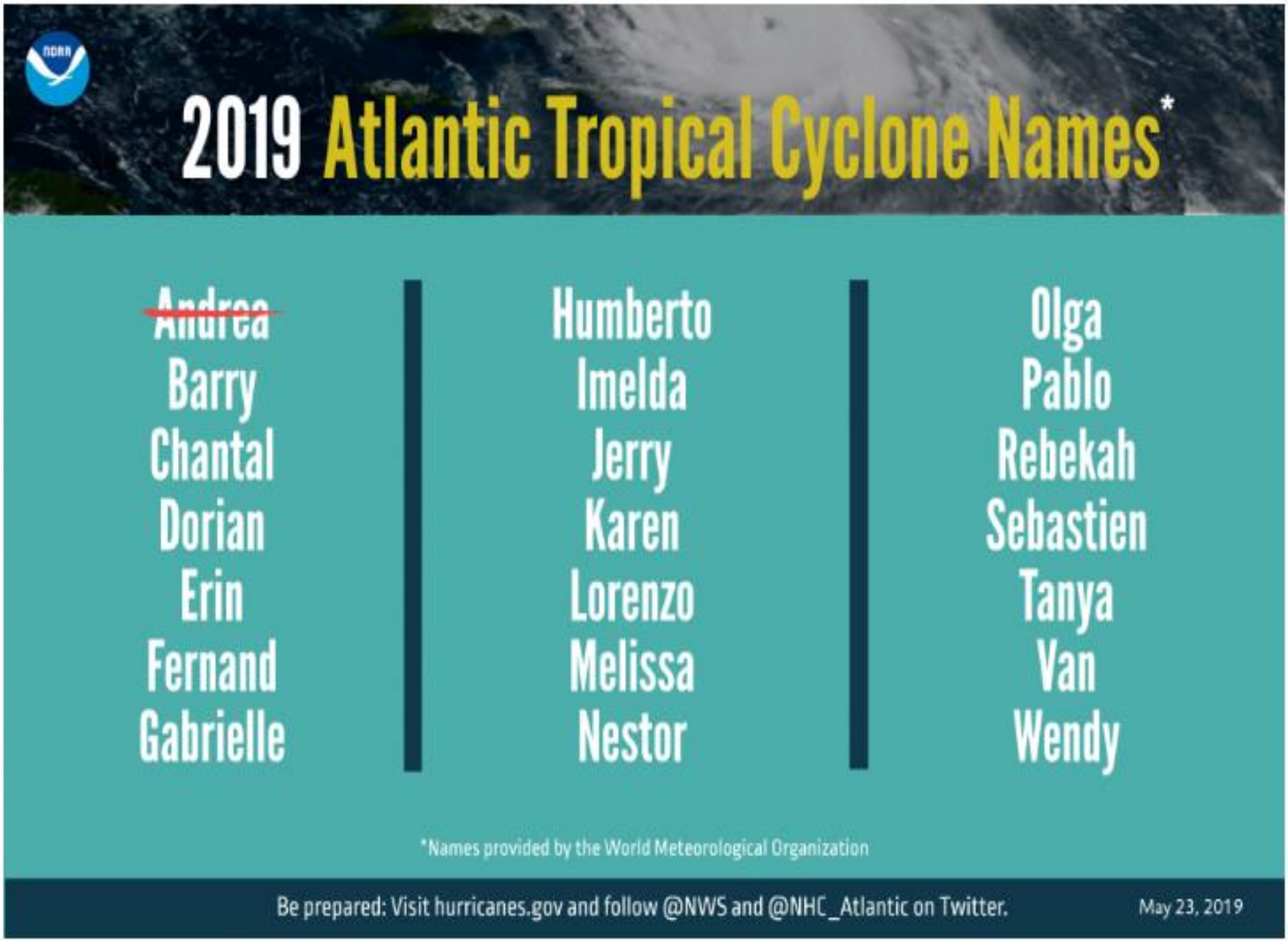
Named storms
9-15

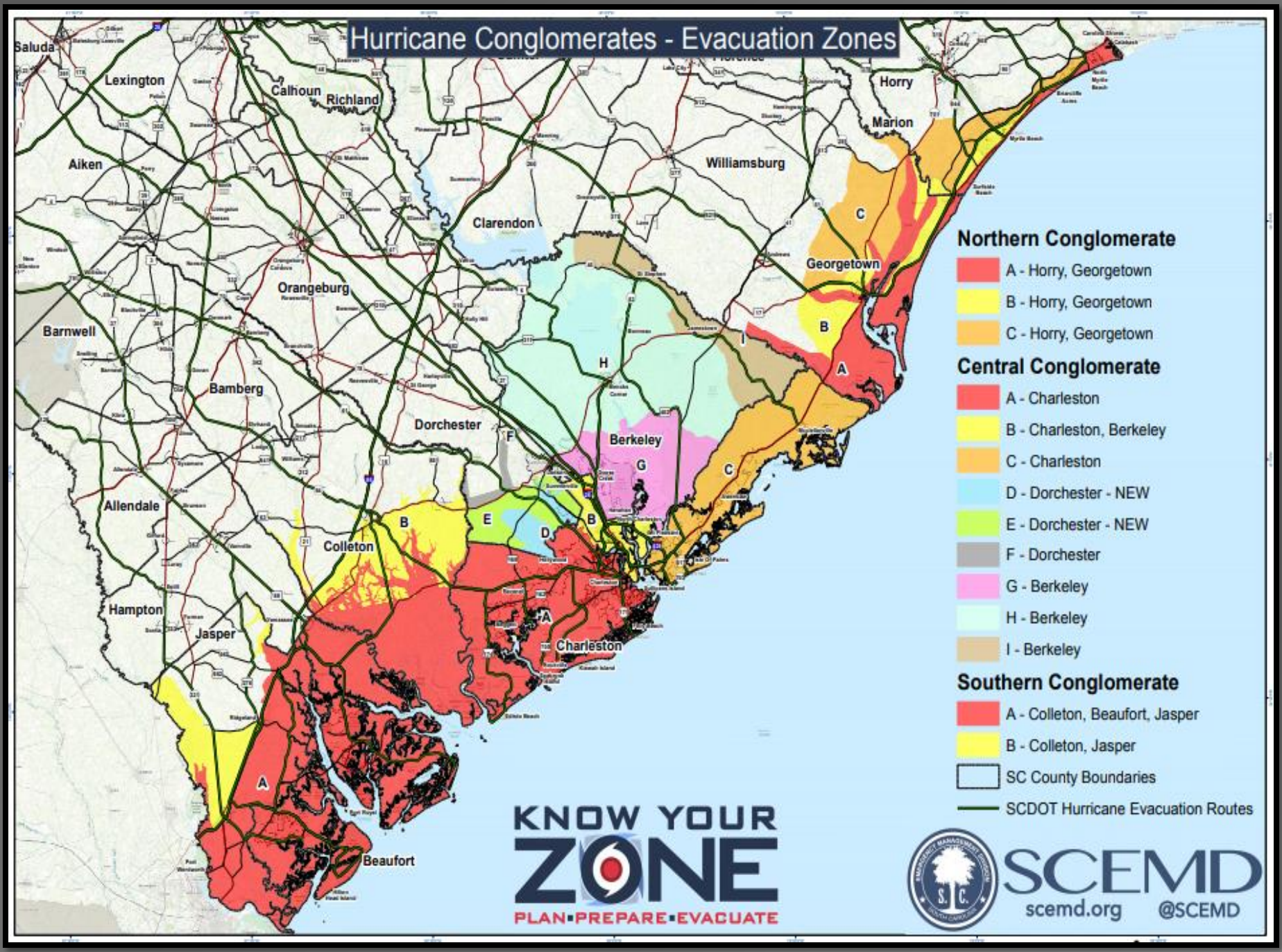
Hurricanes
4-8

Major hurricanes
2-4

Be prepared: Visit hurricanes.gov and follow @NWS and @NHC_Atlantic on Twitter.

May 23, 2019


2019 Atlantic Tropical Cyclone Names*
~~Andrea~~
Barry
Chantal
Dorian
Erin
Fernand
Gabrielle
Humberto
Imelda
Jerry
Karen
Lorenzo
Melissa
Nestor
Olga
Pablo
Rebekah
Sebastien
Tanya
Van
Wendy
*Names provided by the World Meteorological Organization
Be prepared: Visit hurricanes.gov and follow @NWS and @NHC_Atlantic on Twitter.
May 23, 2019


Hurricane Conglomerates - Evacuation Zones
Saluda
Lexington
Calhoun
Richland
Aiken
Clarendon
Williamsburg
Horry
Marion
Georgetown
Orangeburg
Barnwell
Bamberg
Dorchester
Berkeley
Allendale
Colleton
Hampton
Jasper
Charleston
Beaufort
Northern Conglomerate
A - Horry, Georgetown
B - Horry, Georgetown
C - Horry, Georgetown
Central Conglomerate
A - Charleston
B - Charleston, Berkeley
C - Charleston
D - Dorchester - NEW
E - Dorchester - NEW
F - Dorchester
G - Berkeley
H - Berkeley
I - Berkeley
Southern Conglomerate
A - Colleton, Beaufort, Jasper
B - Colleton, Jasper
SC County Boundaries
SCDOT Hurricane Evacuation Routes
KNOW YOUR ZONE
PLAN•PREPARE•EVACUATE
SCEMD
scemd.org
@SCEMD

SOUTH CAROLINA
HURRICANE GUIDE

2019

Have a plan. Make it personal

SCEMD

scemd.org @SCEMD

Protect Yourself Against Hepatitis A

Hepatitis A is a virus that causes serious liver infection and can easily spread from person to person. This virus can make you very sick and even lead to hospitalization.

Many states, including South Carolina, are experiencing outbreaks of hepatitis A. DHEC is working to limit the spread of hepatitis A in our state.

Who is at greatest risk?

- People who use drugs
- People who are homeless
- Men who have sex with men
- People who were recently incarcerated
- People who have close contact with someone who is infected

What are the symptoms?

- Fever, fatigue, loss of appetite
- Jaundice (skin or eyes look yellow)
- Nausea, vomiting, stomach pain
- Dark urine
- Diarrhea

How can I protect myself?

- Hepatitis A vaccine is the best protection
- Wash your hands before and after eating, and after using the bathroom
- Use a condom

For an appointment call: 1-855-472-3432

If you are at risk, the hepatitis A vaccine is available at NO COST at DHEC Health Departments.

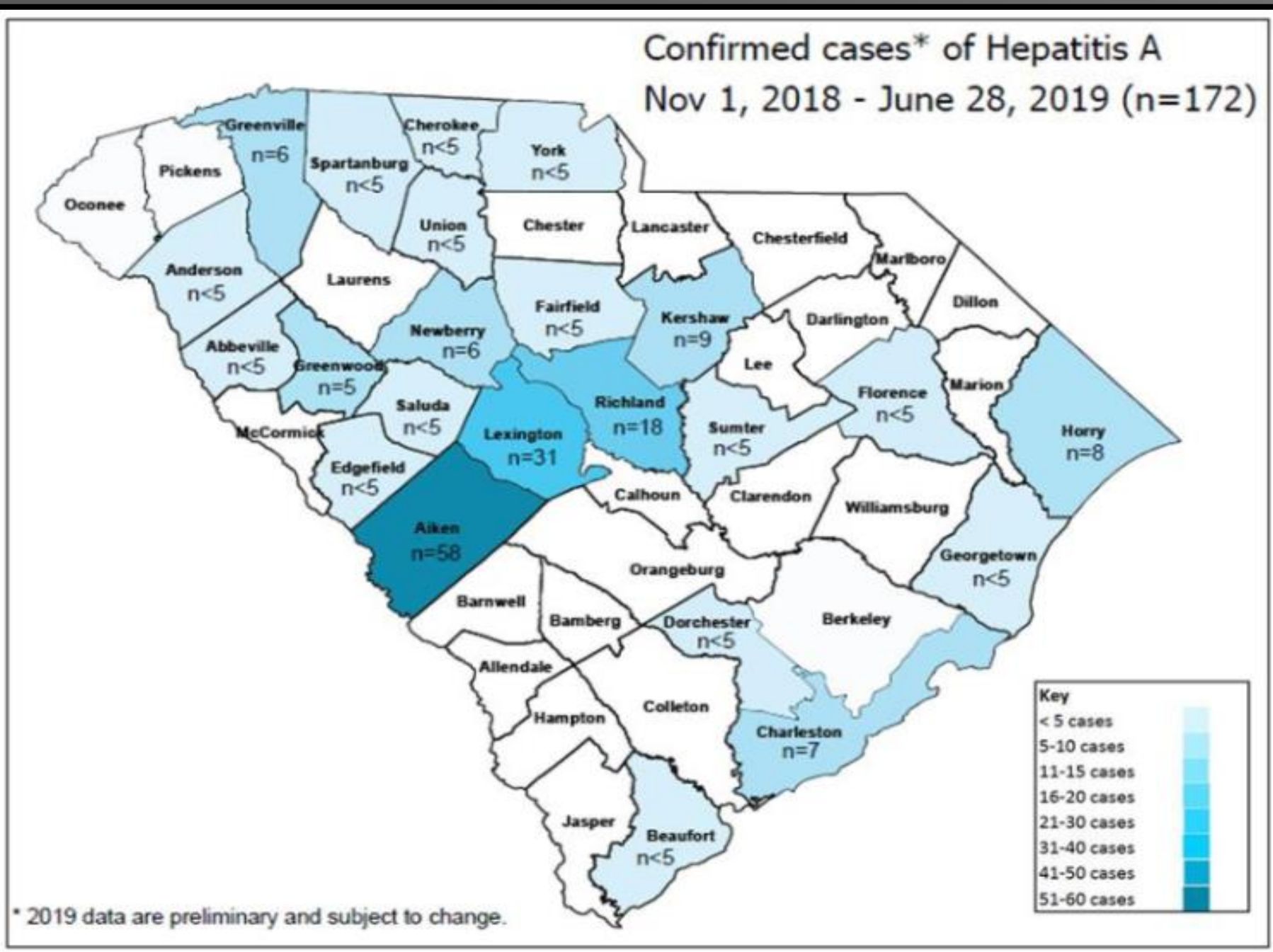
Visit www.scdhec.gov/HepA to learn more about hepatitis A.

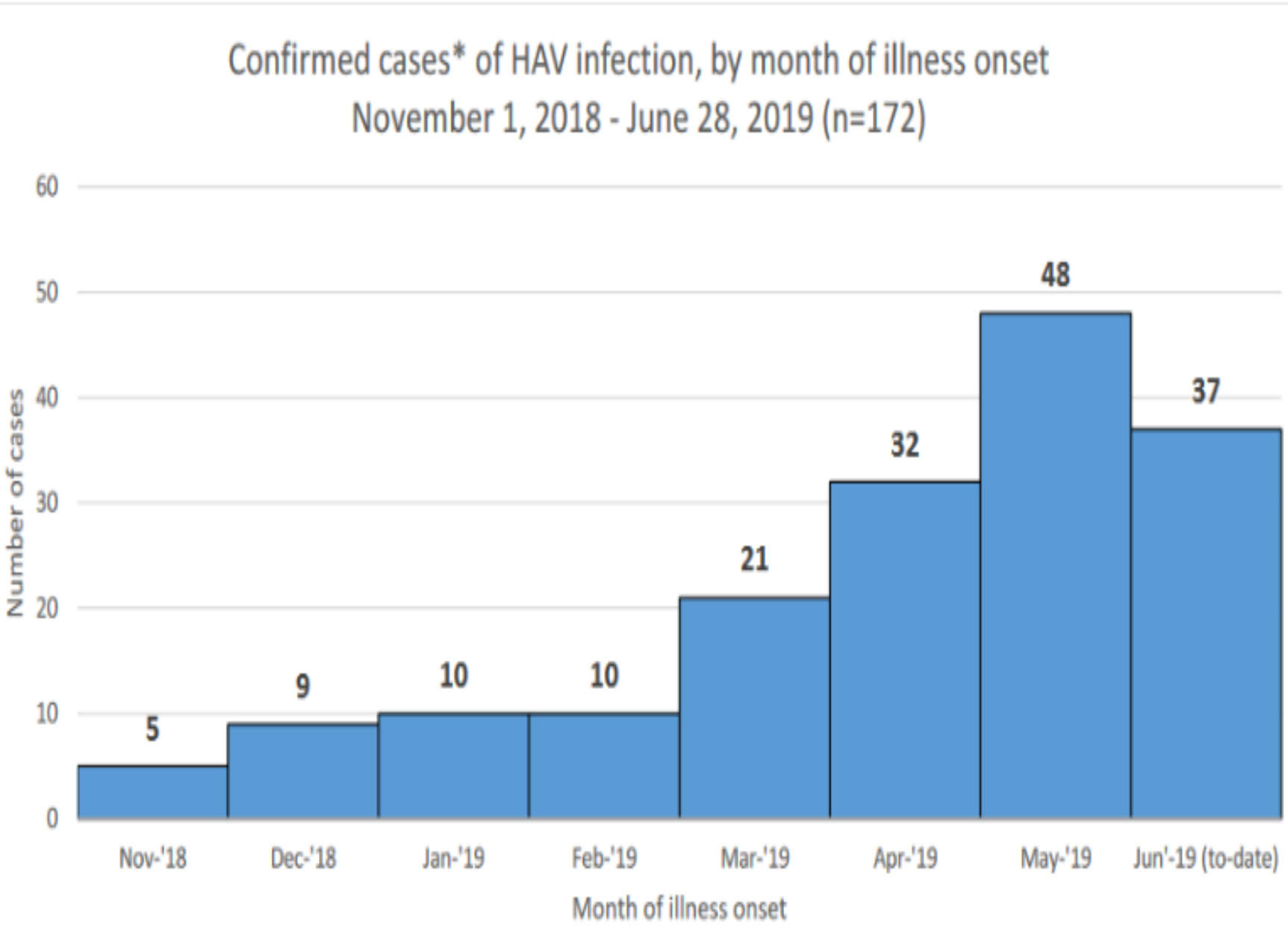
dhec
Healthy People. Healthy Communities.

ML-025662 5/19

Hepatitis A - Possible Restaurant Exposure

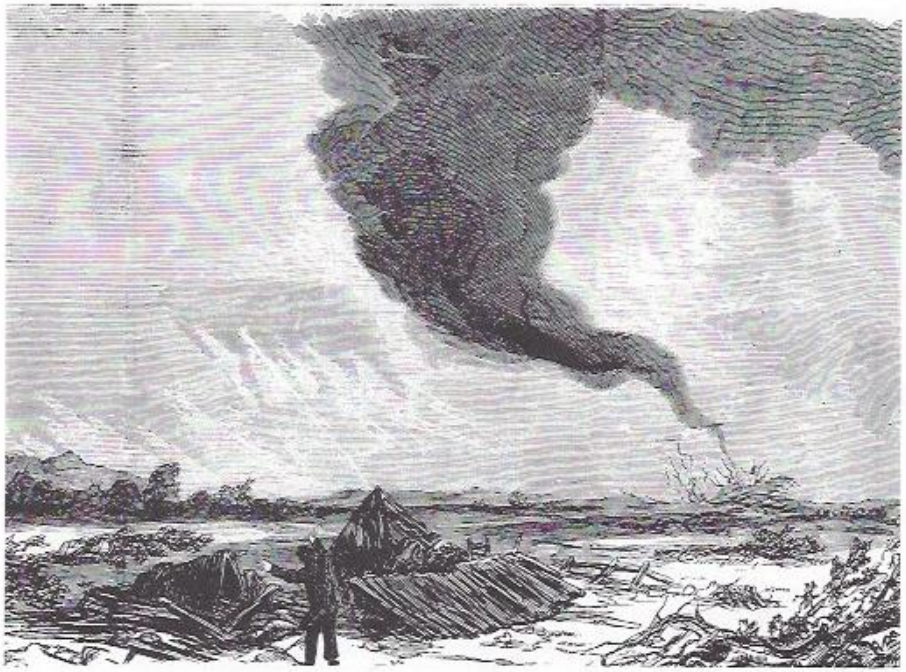
https://www.scdhec.gov/health/infectious-diseases/hepatitis-overview/hepatitis-possible-restaurant-exposure


Confirmed cases* of Hepatitis A
Nov 1, 2018 - June 28, 2019 (n=172)
Greenville n=6
Cherokee n<5
Spartanburg n<5
York n<5
Pickens
Oconee
Union n<5
Chester
Lancaster
Chesterfield
Marlboro
Anderson n<5
Laurens
Fairfield n<5
Kershaw n=9
Darlington
Dillon
Abbeville n<5
Newberry n=6
Greenwood n=5
Lee
Florence n<5
Marion
Saluda n<5
Richland n=18
Lexington n=31
Sumter n<5
Horry n=8
McCormick
Edgefield n<5
Calhoun
Clarendon
Williamsburg
Aiken n=58
Georgetown n<5
Orangeburg
Barnwell
Bamberg
Dorchester n<5
Berkeley
Allendale
Colleton
Hampton
Charleston n=7
Jasper
Beaufort n<5
Key
< 5 cases
5-10 cases
11-15 cases
16-20 cases
21-30 cases
31-40 cases
41-50 cases
51-60 cases
* 2019 data are preliminary and subject to change.


Confirmed cases* of HAV infection, by month of illness onset
November 1, 2018 - June 28, 2019 (n=172)
Number of cases
60
50
40
30
20
10
0
5
9
10
10
21
32
48
37
Nov-'18
Dec-'18
Jan-'19
Feb-'19
Mar-'19
Apr-'19
May-'19
Jun'-19 (to-date)
Month of illness onset

First Recorded Tornado in the U.S.

POSTED MARCH 19, 2018 JEN NARRAMORE



A tornado of unknown data and location. From Significant Tornadoes by Thomas Grazulis.

July 5, 1643 – In a NOAA article called "History of Tornado Forecasting" (found here), they mention this as a possible date for the first recorded tornado. Author David Ludlam documented that Massachusetts Governor John Winthrop observed "a sudden gust that whipped up dust, lifted up his meeting house, and killed a nearby observer with a fallen tree." Thomas Grazulis in his book Significant Tornadoes (1680-1991) also mentions this event. He states that the Governor documented this in his journal and that it occurred in Essex County, MA. He believes this was probably a gust front or downburst versus a tornado. So the verdict is out on whether this was truly the first recorded tornado in the US.

https://celebrating200years.noaa.gov/magazine/tornado_forecasting/

Upcoming Events

• 07/05/19	First Friday After Five	Beaufort
• 07/07/19	The Gullah Reunion Festival	Bluffton
• 07/09/19	Farmers Market	Hilton Head
• 07/10/19	Turtle Trot 5K	Hilton Head
• 07/10/19	May River Shrimp Fest Sunset 5K	Bluffton
• 07/11/19 thru 07/12/19	May River Shrimp Festival	Bluffton
• 07/11/19	Farmers Market	Bluffton
• 07/12/19	Sunset Celebration Summer Concerts	Hilton Head
• 07/12/19 thru 07/21/19	Water Festival	Beaufort
• 07/18/19	Parrot Palooza Caribbean Concert	Hilton Head
• 07/19/19	Sunset Celebration Summer Concerts	Hilton Head
• 08/02/19	First Friday After Five	Beaufort
• 08/03/19	Lutzie 43 Road Race	Bluffton
• 10/04/19 thru 10/05/19	Shrimp Fest	Beaufort
• 10/19/19 thru 10/27/19	Arts & Seafood Festival	Bluffton
• 10/26/19	Walk to End Alzheimer's	Bluffton
• 10/26/19	OktoPRfest	Port Royal
• 12/06/19	Night on the Town	Beaufort
• 12/07/19	Light up the Night Holiday Boat Parade	Beaufort
• 12/08/19	Christmas Parade	Beaufort

Emergency Management Readiness Status

• EOC	Green
• ICV	Green
• COMSAT Trailer	Green
• Charging Trailer	Green
• Logistics Truck	Green
• Roadside Assistance Truck	Green
• HAR Beacons	Green
• HAR System	Green
• Traffic Cameras	Green
• Mobile Cameras	Green
• DMS Boards (x6)	Green
• AVL	Green
• 150K Generators (x2)	Green
• Portable Light Towers (x2)	Green
• Portable HAR (x2)	Green
• BROC	Green
• Air- 1	Green
• Air -2	Red

Reservations
Hilton Head Island / Bluffton

Hilton Head Island - Bluffton Chamber of Commerce

HHI July 5 - 11, 2019

Dates	Day	% Occ.		# of Guests
5-Jul	Fri	96	%	59,013
6-Jul	Sat	89	%	54,824
7-Jul	Sun	83	%	51,190
8-Jul	Mon	85	%	52,360
9-Jul	Tue	82	%	50,758
10-Jul	Wed	85	%	52,114
11-Jul	Thu	87	%	53,469

Hilton Head Island - Bluffton Chamber of Commerce

Bluffton July 5 - 11, 2019

Dates	Day	% Occ.		# of Guests
5-Jul	Fri	94	%	1,825
6-Jul	Sat	83	%	1,621
7-Jul	Sun	32	%	614
8-Jul	Mon	29	%	559
9-Jul	Tue	31	%	608
10-Jul	Wed	32	%	621
11-Jul	Thu	37	%	723

Hilton Head Island - Bluffton Chamber of Commerce

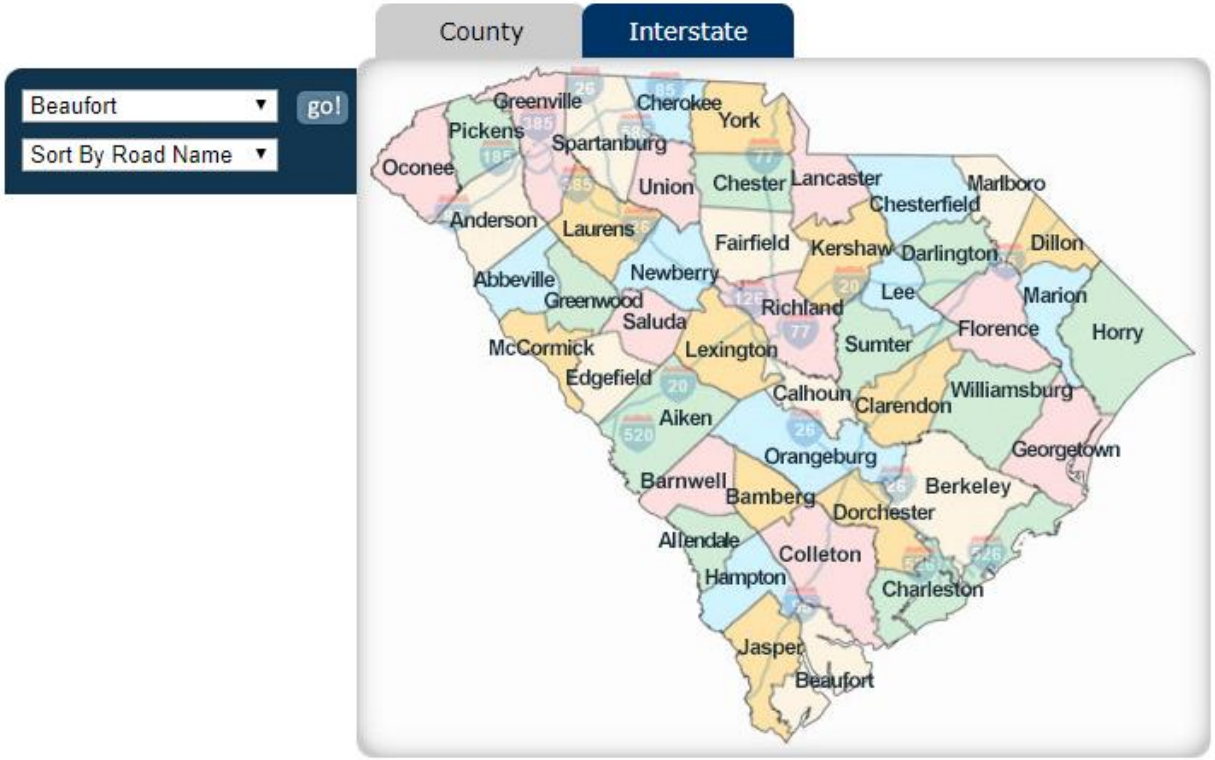
HHI and Bluffton July 5 - 11, 2019

Dates	Day	# of Guests
5-Jul	Fri	60,838
6-Jul	Sat	56,445
7-Jul	Sun	51,803
8-Jul	Mon	52,919
9-Jul	Tue	51,366
10-Jul	Wed	52,735
11-Jul	Thu	54,192
Total		**380,298**

Beaufort County Road Conditions

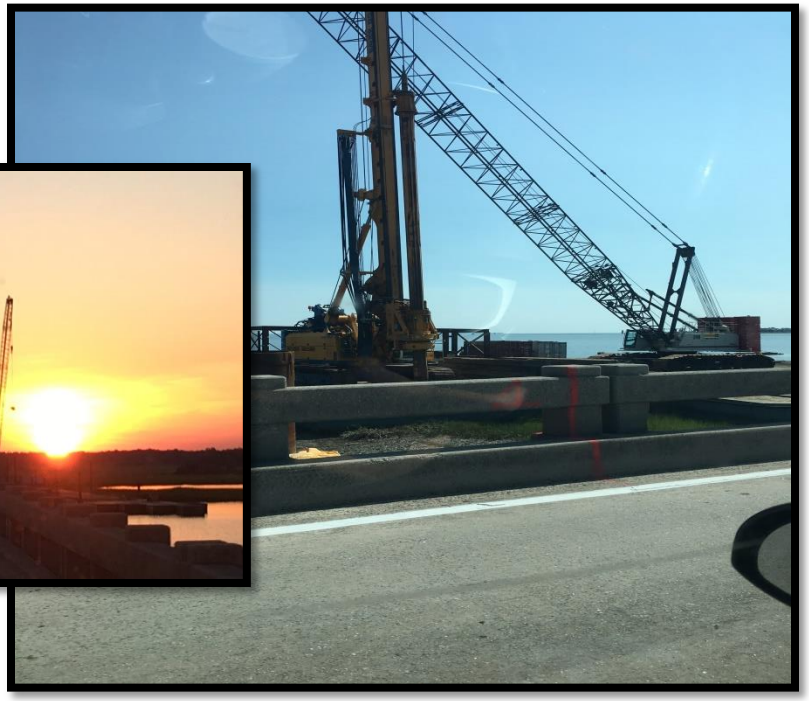
Emergency conditions are marked with this icon

No conditions reported.



US 21 Harbor Island Bridge Construction

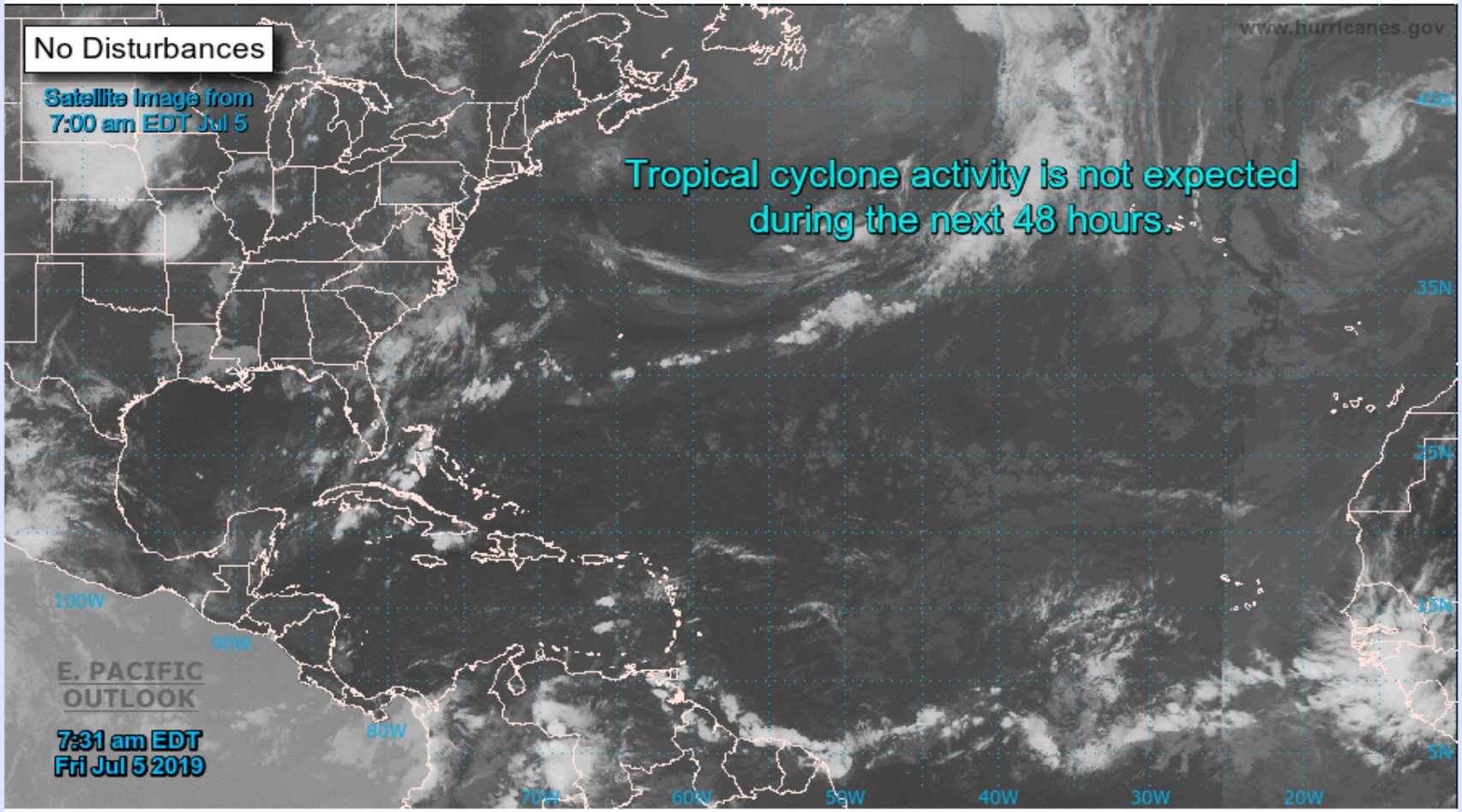
https://www.scdot.org/business/us-21-bridge-replacement.aspx



Disturbances: None

Two-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



Current Disturbances and Two-Day Cyclone Formation Chance: < 40% 40-60% > 60%

Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane

Post-Tropical Cyclone or Remnants

View 5-Day Graphical Tropical Weather Outlook

Central Pacific | Eastern North Pacific | Atlantic

Disturbances: None

Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida

Current Disturbances and Five-Day Cyclone Formation Chance: < 40% | 40-60% | > 60%

Tropical or Sub-Tropical Cyclone: Depression | Storm | Hurricane

Post-Tropical Cyclone or Remnants

View 2-Day Graphical Tropical Weather Outlook

One product issued by NWS for: Beaufort SC

Share

Hazardous Weather Outlook

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Hazardous Weather Outlook
National Weather Service Charleston SC
327 AM EDT Fri Jul 5 2019

SCZ048>050-060730-
Beaufort-Coastal Colleton-Charleston-
327 AM EDT Fri Jul 5 2019

This Hazardous Weather Outlook is for southeast South Carolina.

.DAY ONE...Today and tonight.

Coastal Flooding: Minor coastal flooding is possible during the
Friday evening high tide. A Coastal Flood Advisory could be needed.

.DAYS TWO THROUGH SEVEN...Saturday through Thursday.

The probability for widespread hazardous weather is low.

.SPOTTER INFORMATION STATEMENT...

Spotter assistance is not anticipated at this time.
```

Extended Weather Forecast

Extended Forecast for
Beaufort SC

Today	Tonight	Saturday	Saturday Night	Sunday	Sunday Night	Monday	Monday Night	Tuesday
60%	40%	60%	40%	60%	40%	60%	50%	50%
T-storms Likely	Chance T-storms	T-storms Likely	Chance T-storms	T-storms Likely	Chance T-storms	T-storms Likely	Chance T-storms	Chance T-storms
High: 89 °F	Low: 76 °F	High: 88 °F	Low: 76 °F	High: 90 °F	Low: 77 °F	High: 90 °F	Low: 76 °F	High: 89 °F

Detailed Weather Briefing

Detailed Forecast

Today	Showers and thunderstorms likely, mainly after 2pm. Mostly cloudy, with a high near 89. South wind 6 to 9 mph. Chance of precipitation is 60%. New rainfall amounts between a quarter and half of an inch possible.
Tonight	A 40 percent chance of showers and thunderstorms, mainly before 1am. Mostly cloudy, with a low around 76. South wind 3 to 7 mph.
Saturday	Showers and thunderstorms likely, mainly between 2pm and 3pm. Partly sunny, with a high near 88. Southwest wind 6 to 10 mph. Chance of precipitation is 60%. New rainfall amounts between a tenth and quarter of an inch, except higher amounts possible in thunderstorms.
Saturday Night	A 40 percent chance of showers and thunderstorms. Mostly cloudy, with a low around 76. South wind 7 to 9 mph.
Sunday	Showers and thunderstorms likely, mainly after noon. Mostly cloudy, with a high near 90. Southwest wind around 9 mph. Chance of precipitation is 60%. New rainfall amounts between a tenth and quarter of an inch, except higher amounts possible in thunderstorms.
Sunday Night	A 40 percent chance of showers and thunderstorms. Mostly cloudy, with a low around 77.
Monday	Showers and thunderstorms likely. Mostly cloudy, with a high near 90. Chance of precipitation is 60%.
Monday Night	A 50 percent chance of showers and thunderstorms. Mostly cloudy, with a low around 76.
Tuesday	A 50 percent chance of showers and thunderstorms. Mostly cloudy, with a high near 89.
Tuesday Night	A 40 percent chance of showers and thunderstorms. Mostly cloudy, with a low around 76.
Wednesday	A 40 percent chance of showers and thunderstorms. Partly sunny, with a high near 89.
Wednesday Night	A 30 percent chance of showers and thunderstorms. Mostly cloudy, with a low around 76.
Thursday	A 40 percent chance of showers and thunderstorms. Partly sunny, with a high near 89.

Weather Briefing

NATIONAL WEATHER SERVICE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

WRN
WEATHER-READY NATION

Weather Briefing
for Southeast SC/GA

1030 AM

Friday, July 5, 2019

Disclaimer: *The information contained within this briefing is time-sensitive and could affect its validity as the date/time moves away from when the briefing was created.*

Weather Forecast Office
Charleston, SC

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Presentation Created
7/5/2019 10:41 AM

Weather Briefing Continued

NATIONAL WEATHER SERVICE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

WRN WEATHER-READY NATION

Equipment Status as of Friday Morning

- KCLX radar is down due to a hardware failure. Techs are on site this morning to continue repairs. Time of return unknown at this time.
  - Use neighboring radars including KLTX, KCAE, KJGX, KVAX and KJAX.
- Savannah NOAA Weather Radio All Hazards remains off the air due to phone line problems. Repairs are in progress.
  - Warnings will not be available on this station until broadcasts resume.
  - Use other means such as NWSChat, iNWS, etc.

Weather Briefing Continued

NATIONAL WEATHER SERVICE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

WRN WEATHER-READY NATION

Highlights

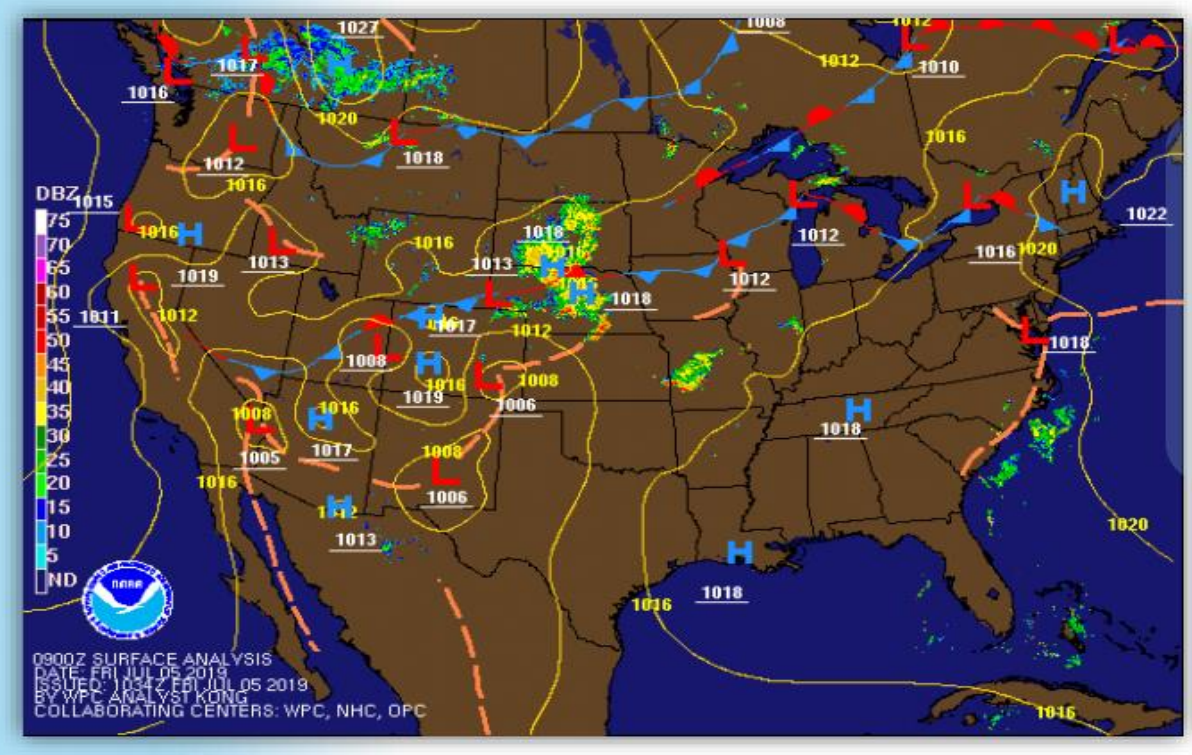
- Typical pulse-severe thunderstorms possible into early next week.
- Shallow coastal flooding possible Friday evening, mainly South Carolina coast.
- Winds near Small Craft Advisory conditions this weekend.

Weather Briefing Continued

NATIONAL WEATHER SERVICE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

WRN WEATHER-READY NATION

Current Conditions



- Surface trough will help focus showers/tstms next few days.
- Typical summer-time thunderstorm pattern.

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7/5/2019 10:41 AM

Weather Briefing Continued

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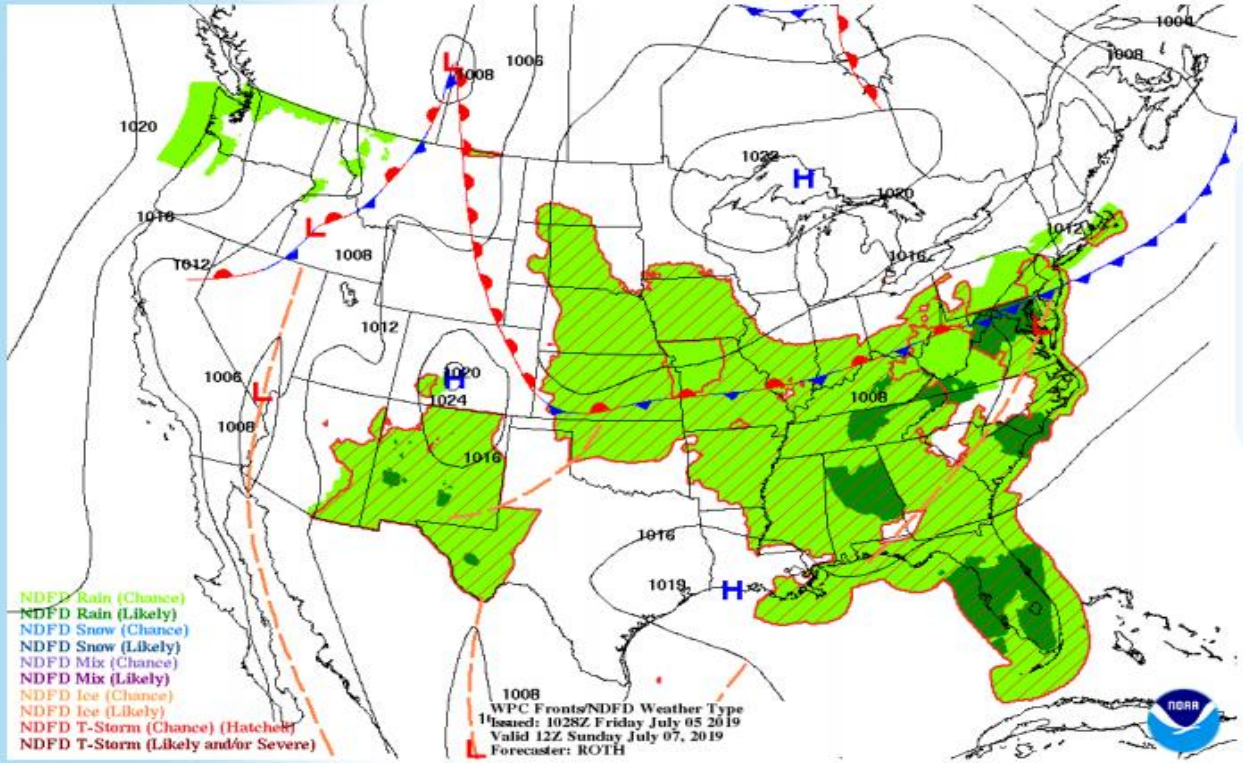
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

WEATHER-READY NATION

Sunday's Weather Map



- Surface trough lingers.
- Typical summer-time thunderstorm pattern persists.

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Weather Briefing Continued

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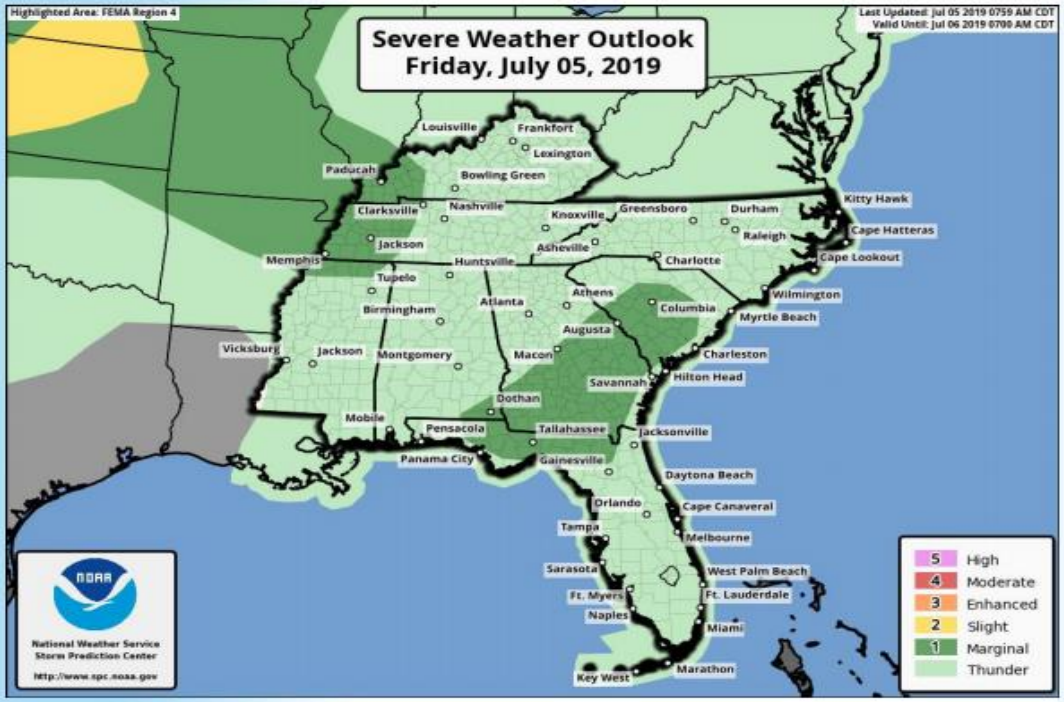
WEATHER-READY NATION

Severe Weather Outlook: Friday



Overview:

- Risk:
  - Locally damaging winds
  - Frequent Cloud-to-Ground lightning.
  - Small Hail
  - Locally heavy rainfall with minor flooding.
- Timing: any time, mainly afternoon and evening.
- Location: Entire Area, should focus inland.

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Charleston, SC

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7/5/2019 10:41 AM

Weather Briefing Continued

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

WRN WEATHER-READY NATION

Understanding Severe Thunderstorm Risk Categories

THUNDERSTORMS (no label)	1 - MARGINAL (MRGL)	2 - SLIGHT (SLGT)	3 - ENHANCED (ENH)	4 - MODERATE (MDT)	5 - HIGH (HIGH)
No severe* thunderstorms expected	**Isolated severe thunderstorms possible**	**Scattered severe storms possible**	**Numerous severe storms possible**	**Widespread severe storms likely**	**Widespread severe storms expected**
Lightning/flooding threats exist with <u>all</u> thunderstorms	Limited in duration and/or coverage and/or intensity	Short-lived and/or not widespread, isolated intense storms possible	More persistent and/or widespread, a few intense	Long-lived, widespread and intense	Long-lived, very widespread and particularly intense
• *Winds to 40 mph* • *Small hail*	• *Winds 40-60 mph* • *Hail up to 1"* • *Low tornado risk*	• *One or two tornadoes* • *Reports of strong winds/wind damage* • *Hail ~1", isolated 2"*	• *A few tornadoes* • *Several reports of wind damage* • *Damaging hail, 1 - 2"*	• *Strong tornadoes* • *Widespread wind damage* • *Destructive hail, 2" +*	• *Tornado outbreak* • *Derecho*

* NWS defines a severe thunderstorm as measured wind gusts to at least 58 mph, and/or hail to at least one inch in diameter, and/or a tornado. All thunderstorm categories imply lightning and the potential for flooding. Categories are also tied to the probability of a severe weather event within 25 miles of your location.

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Charleston, SC

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Weather Briefing Continued

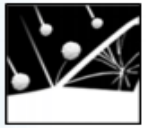
NATIONAL WEATHER SERVICE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

WRN WEATHER-READY NATION

Summary of Greatest Impacts for Friday

Damaging Winds:

None	Limited	Elevated	Significant	Extreme



Hail:

None	Limited	Elevated	Significant	Extreme

Tornadoes:

None	Limited	Elevated	Significant	Extreme

Flash Flooding:

None	Limited	Elevated	Significant	Extreme

Lightning:

None	Limited	Elevated	Significant	Extreme

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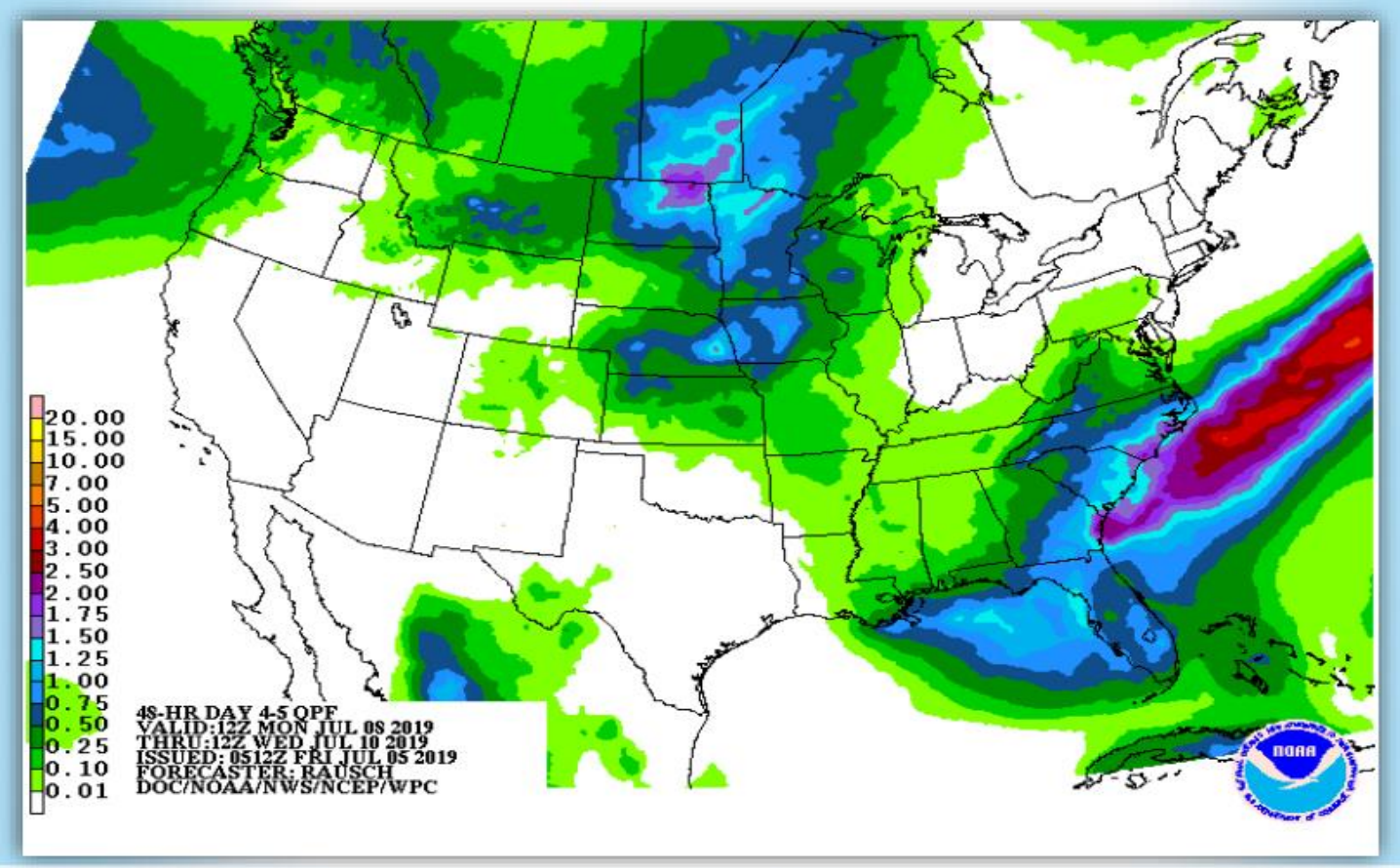
Weather Briefing Continued

NATIONAL WEATHER SERVICE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

WRN WEATHER-READY NATION

7 Day Total Rainfall



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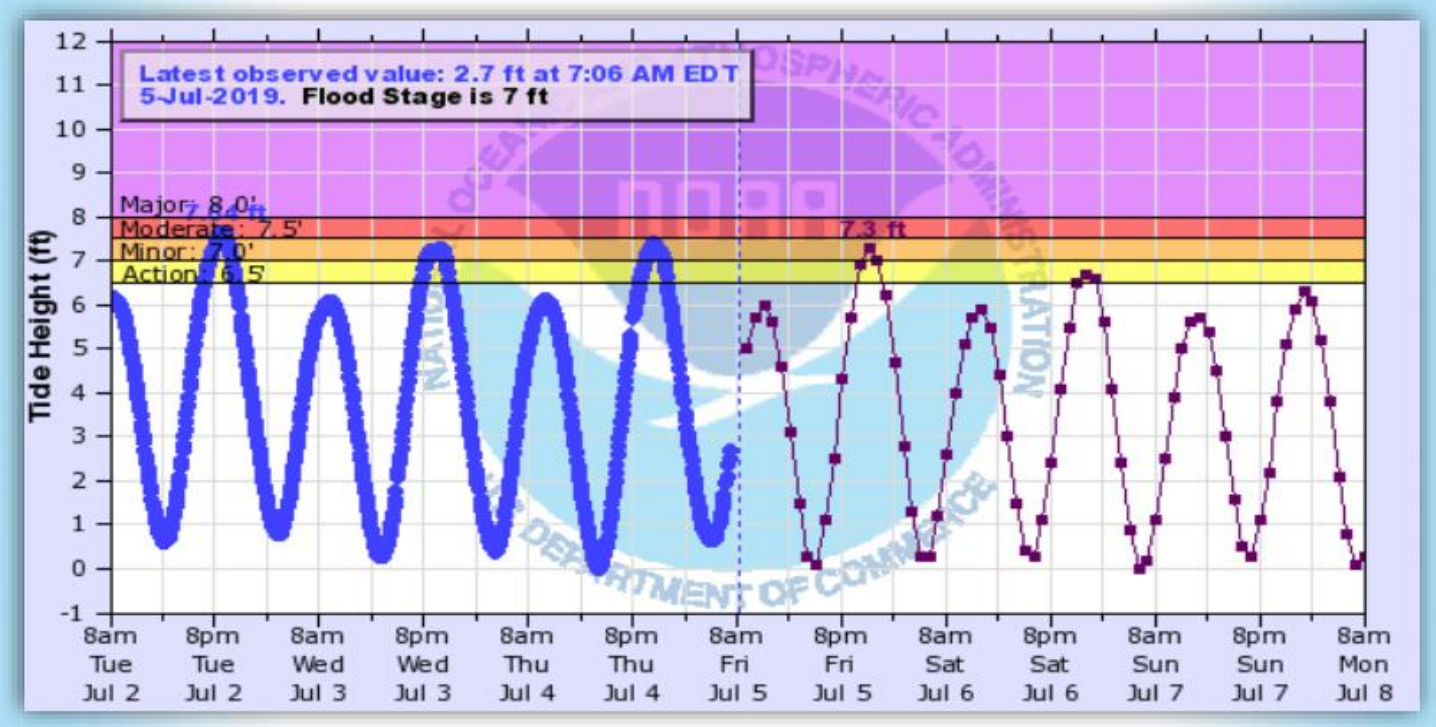
7/5/2019 10:41 AM

Weather Briefing Continued

NATIONAL WEATHER SERVICE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

WRN WEATHER-READY NATION

Charleston, SC Tide Forecast



✓ Shallow Coastal Flooding possible Friday evening high tide, SC coast.

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Weather Briefing Continued

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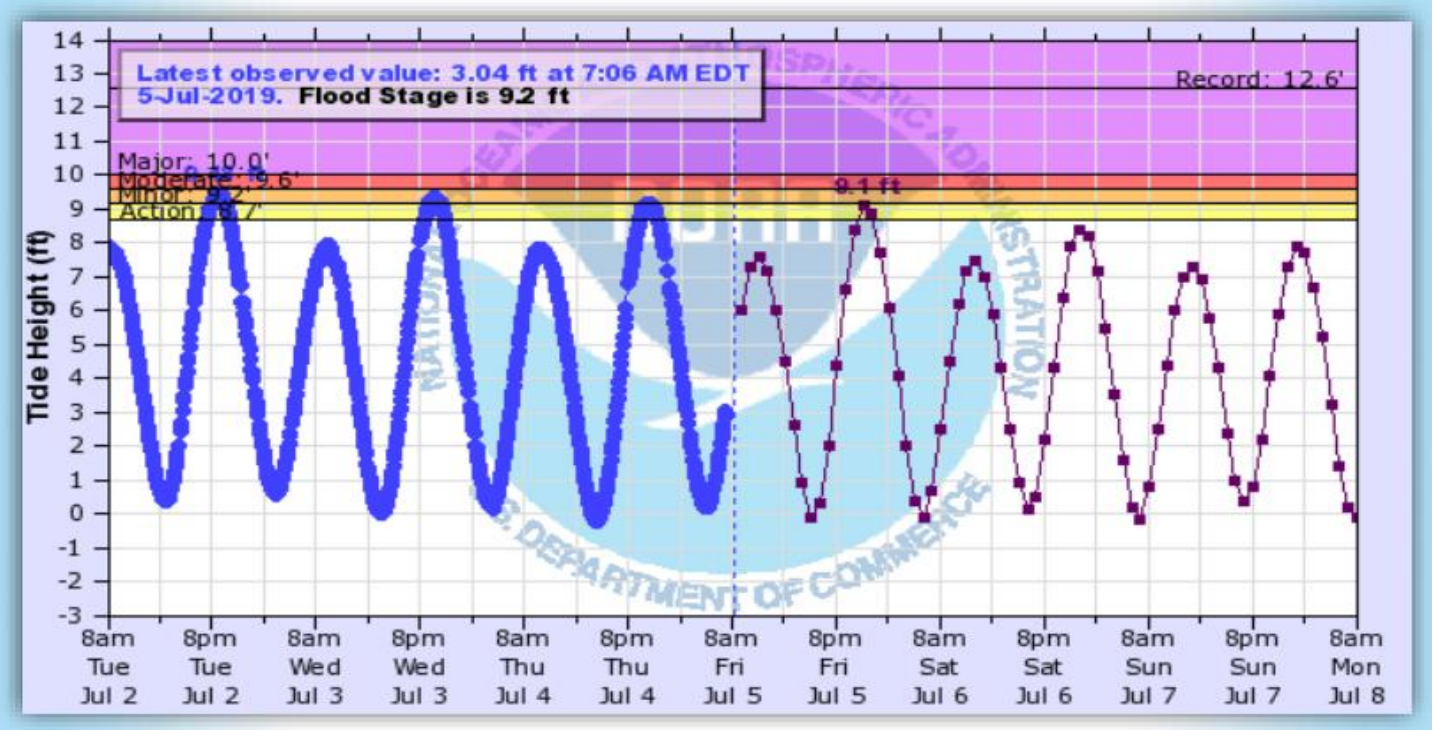
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

WRN WEATHER-READY NATION

Fort Pulaski, GA Tide Forecast



- ✓ Tides should fall short of shallow coastal flooding thresholds. GA coast

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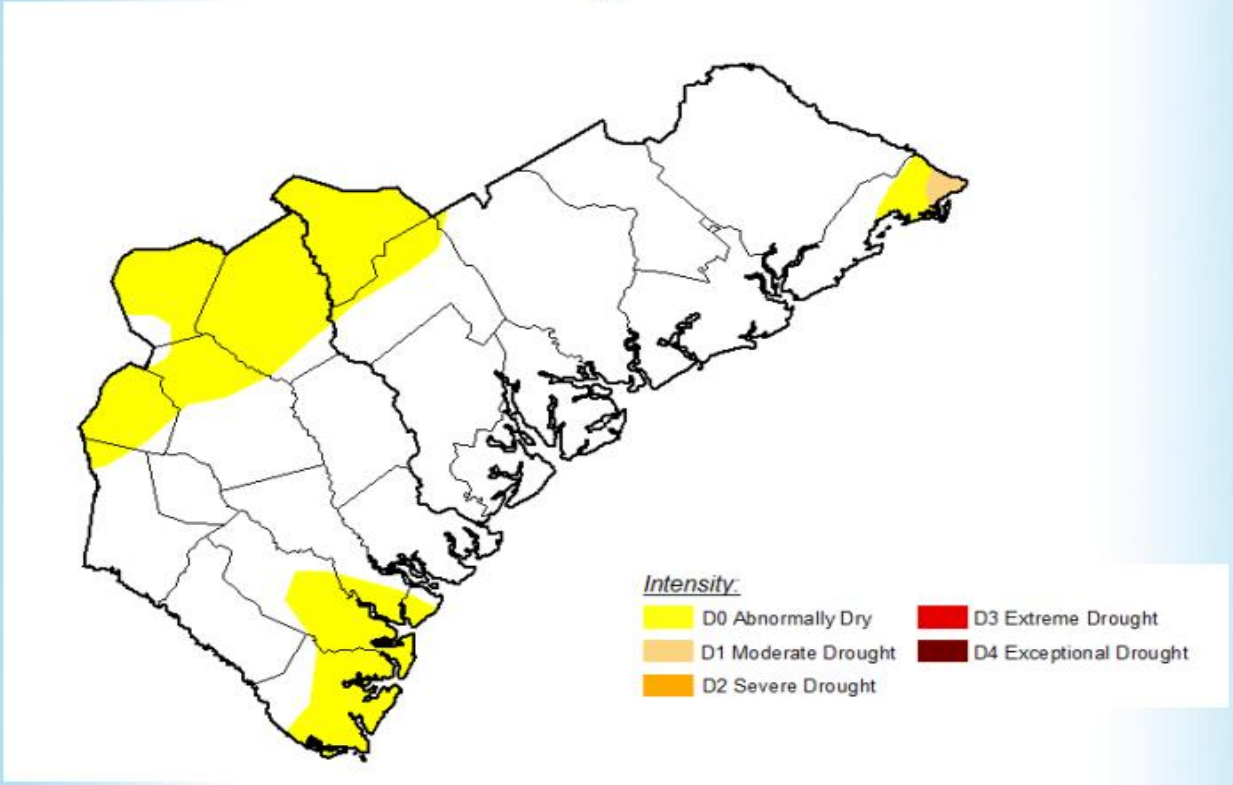
WRN WEATHER-READY NATION

Drought Status



✓ Drought conditions almost eliminated.

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WRN WEATHER-READY NATION

Marine Highlights

- Winds near Small Craft Advisory conditions this weekend.

Aviation Highlights

- Brief IFR conditions and gusty winds possible with any thunderstorms.

Fire Weather Highlights

- No concerns.

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Weather Briefing Continued

NATIONAL WEATHER SERVICE
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WRN WEATHER-READY NATION

Summary / Expected Impacts

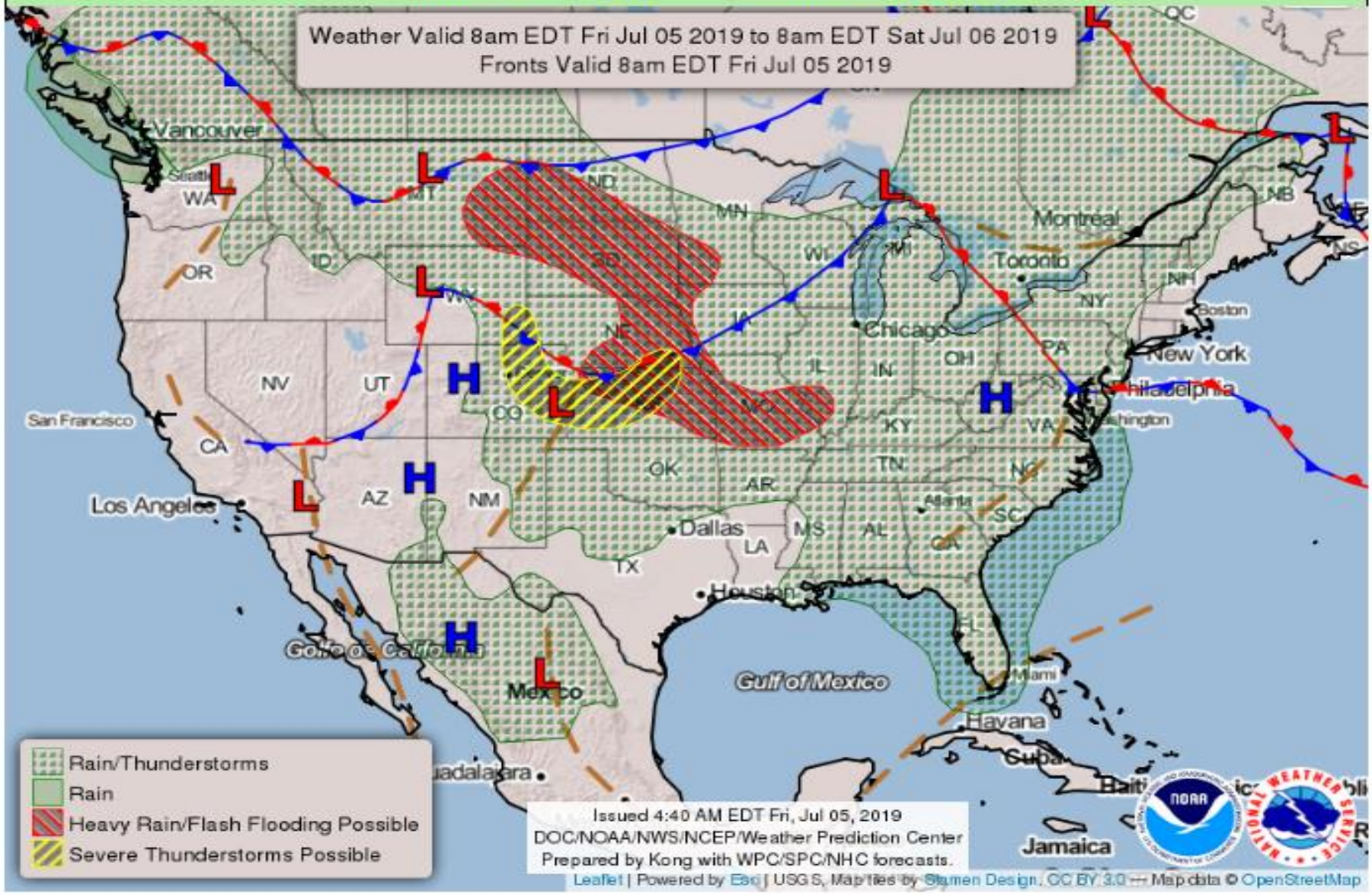
- Typical summer-time thunderstorm pattern will persist into next week. Isolated, pulse severe t-storms possible just about anytime.
  - Damaging winds
  - Frequent cloud-to-ground lightning
  - Small hail
  - Locally heavy rainfall, minor flooding low-lying and poor drainage areas.
- Shallow coastal flooding expected around high tide Friday evening, mainly SC coast.
- Winds near Small Craft Advisory thresholds over the weekend.

Today's Forecast
Friday Jul 5, 2019

Tomorrow's Forecast
Saturday Jul 6, 2019

Day 3 Forecast
Sunday Jul 7, 2019

Available Image Formats English: GIF PDF* Español: GIF PDF*

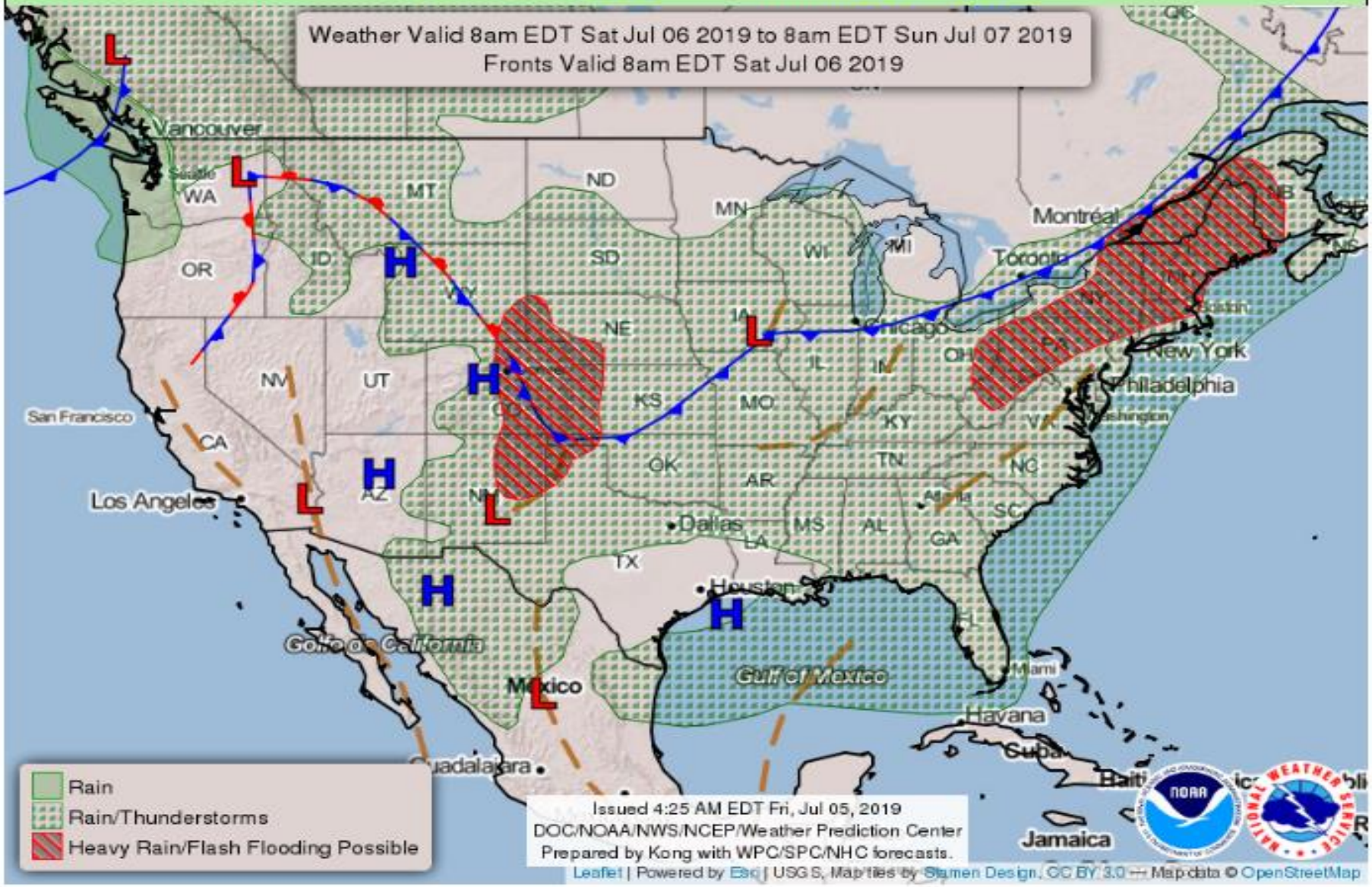


Today's Forecast
Friday Jul 5, 2019

Tomorrow's Forecast
Saturday Jul 6, 2019

Day 3 Forecast
Sunday Jul 7, 2019

Available Image Formats English: GIF PDF* Español: GIF PDF*

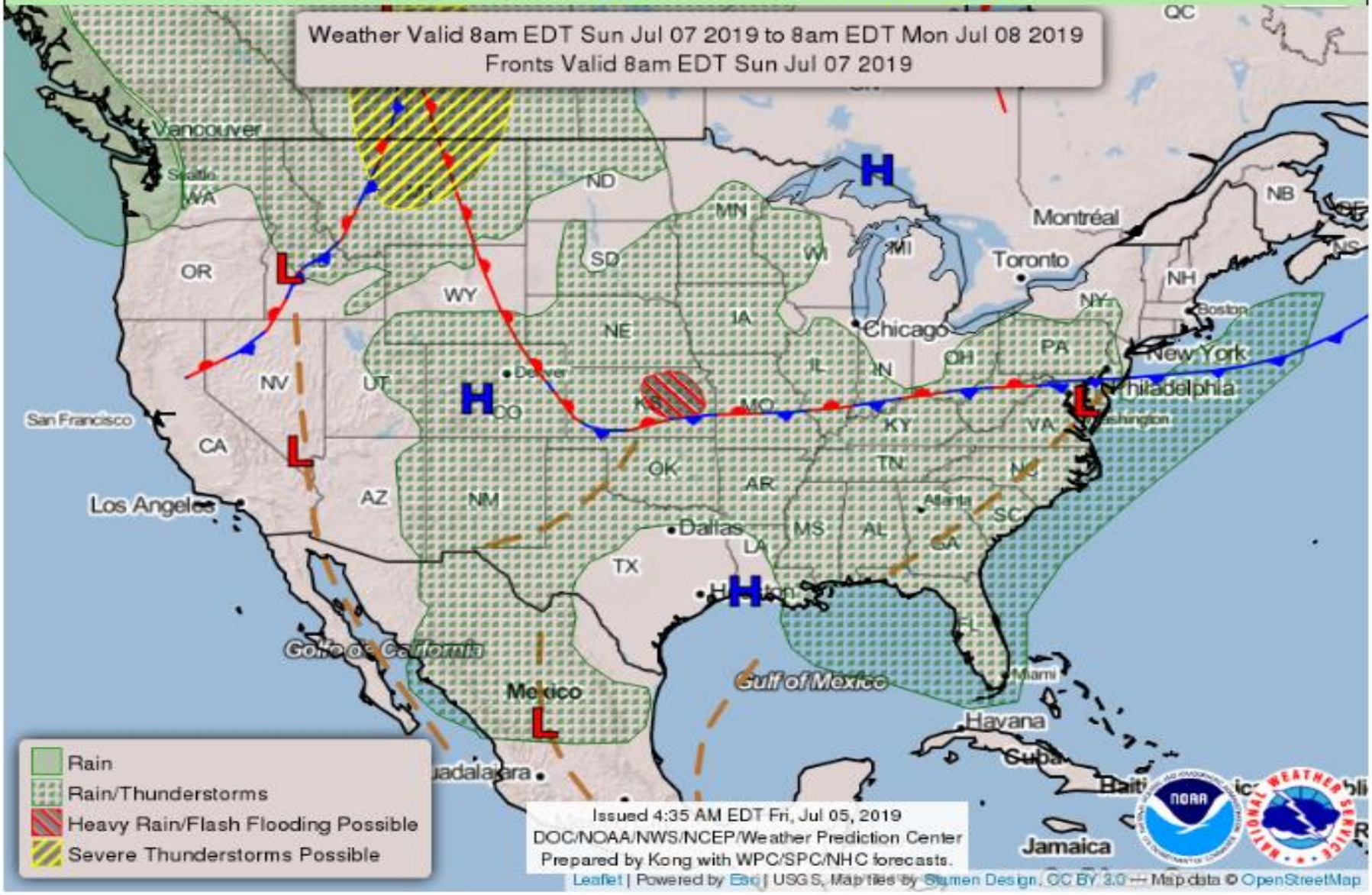


Today's Forecast
Friday Jul 5, 2019

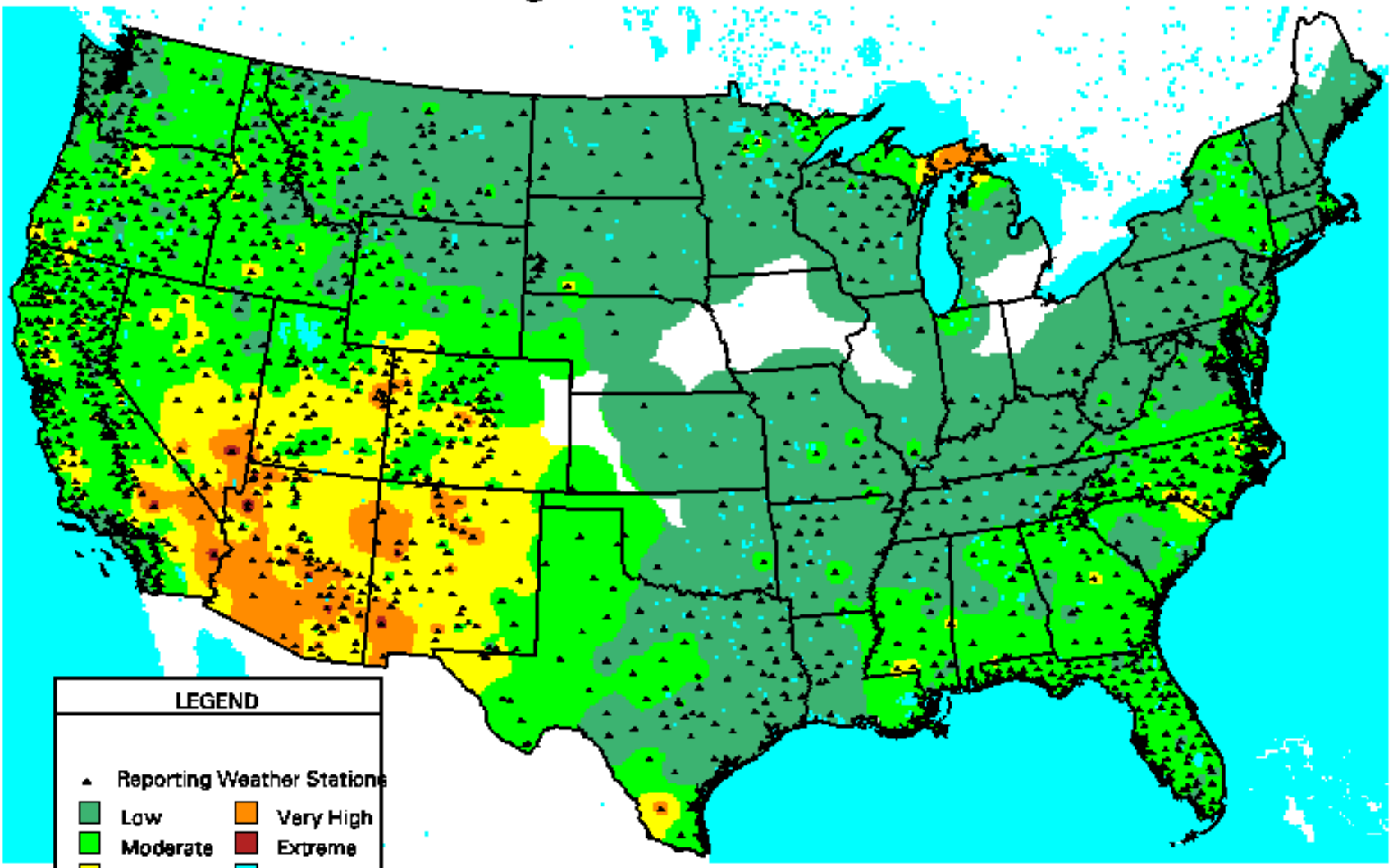
Tomorrow's Forecast
Saturday Jul 6, 2019

Day 3 Forecast
Sunday Jul 7, 2019

Available Image Formats English: GIF PDF* Español: GIF PDF*



Observed Fire Danger Class: 04-Jul-19

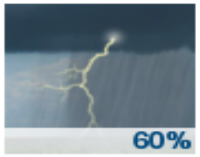
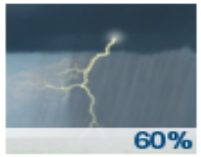


(Inv. Dist.^{2} Interp.)

WFAS-MAPS Graphics FIRE BEHAVIOR RESEARCH MISSOULA, MT

National Weather Service Charleston, SC
Last update on 5 Jul 09:15 am EDT

Beach forecast for Hunting Island

Today	Tonight	Saturday	Saturday Night	Sunday	Sunday Night	Monday
						
40%	30%	50%	50%	60%	40%	60%
Chance T-storms	Chance T-storms	Chance T-storms	Chance T-storms	T-storms Likely	Chance T-storms	T-storms Likely
Hi 86 °F	Lo 79 °F	Hi 87 °F	Lo 78 °F	Hi 88 °F	Lo 79 °F	Hi 88 °F

Today: A 40 percent chance of showers and thunderstorms, mainly after 10am. Mostly cloudy, with a high near 86. South wind 9 to 15 mph.

Tonight: A 30 percent chance of showers and thunderstorms, mainly before midnight. Mostly cloudy, with a low around 79. South wind 9 to 13 mph.

Saturday: A 50 percent chance of showers and thunderstorms. Partly sunny, with a high near 87. South wind 9 to 13 mph. New rainfall amounts between a tenth and quarter of an inch, except higher amounts possible in thunderstorms.

Saturday Night: A 50 percent chance of showers and thunderstorms. Mostly cloudy, with a low around 78. South wind 11 to 14 mph. New rainfall amounts between a quarter and half of an inch possible.

Sunday: Showers and thunderstorms likely, mainly after noon. Mostly cloudy, with a high near 88. Southwest wind 11 to 14 mph. Chance of precipitation is 60%. New rainfall amounts between a quarter and half of an inch possible.

Sunday Night: A 40 percent chance of showers and thunderstorms. Mostly cloudy, with a low around 79.

Monday: Showers and thunderstorms likely. Mostly cloudy, with a high near 88. Chance of precipitation is 60%.

Point Forecast: 8 Miles E Saint Helena Island SC
32.38 -80.44 (Elev. 10 ft)

Visit your local NWS office at https://www.weather.gov/chs

Rip Risk / Low

Life threatening rip currents often occur in the vicinity of inlets, groins, jetties, and piers. Always supervise those who cannot swim and remember to heed the advice of the local beach patrol and flag warning systems.

UV Index / High

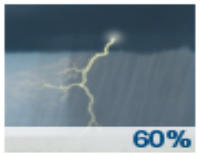
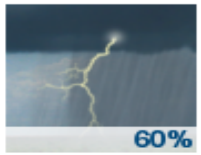
High risk of harm from unprotected sun exposure.
Protection against sunburn is needed. Reduce time in the sun between 10 a.m. and 4 p.m. Cover up, wear a hat and sunglasses, and use sunscreen.

Water Temperature

Mid 80s

National Weather Service Charleston, SC
Last update on 5 Jul 09:15 am EDT

Beach forecast for Fripp Island

Today	Tonight	Saturday	Saturday Night	Sunday	Sunday Night	Monday
						
40%	30%	50%	50%	60%	40%	60%
Chance T-storms	Chance T-storms	Chance T-storms	Chance T-storms	T-storms Likely	Chance T-storms	T-storms Likely
Hi 86 °F	Lo 79 °F	Hi 86 °F	Lo 79 °F	Hi 87 °F	Lo 79 °F	Hi 87 °F

Today: A 40 percent chance of showers and thunderstorms, mainly after 10am. Mostly cloudy, with a high near 86. South wind 9 to 15 mph.

Tonight: A 30 percent chance of showers and thunderstorms, mainly before midnight. Mostly cloudy, with a low around 79. South wind 9 to 13 mph.

Saturday: A 50 percent chance of showers and thunderstorms. Partly sunny, with a high near 86. South wind 9 to 13 mph. New rainfall amounts between a tenth and quarter of an inch, except higher amounts possible in thunderstorms.

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Sunday: Showers and thunderstorms likely, mainly after noon. Mostly cloudy, with a high near 87. Southwest wind 11 to 14 mph. Chance of precipitation is 60%. New rainfall amounts between a quarter and half of an inch possible.

Sunday Night: A 40 percent chance of showers and thunderstorms. Mostly cloudy, with a low around 79.

Monday: Showers and thunderstorms likely. Mostly cloudy, with a high near 87. Chance of precipitation is 60%.

Point Forecast: 7 Miles SE Saint Helena Island SC
32.31 -80.47 (Elev. 0 ft)

Visit your local NWS office at https://www.weather.gov/chs

Rip Risk / Low

Life threatening rip currents often occur in the vicinity of inlets, groins, jetties, and piers. Always supervise those who cannot swim and remember to heed the advice of the local beach patrol and flag warning systems.

UV Index / High

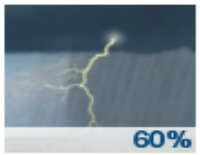
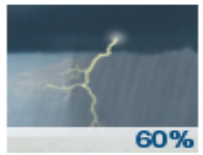
High risk of harm from unprotected sun exposure.
Protection against sunburn is needed. Reduce time in the sun between 10 a.m. and 4 p.m. Cover up, wear a hat and sunglasses, and use sunscreen.

Water Temperature

Mid 80s

National Weather Service Charleston, SC
Last update on 5 Jul 08:50 am EDT

Beach forecast for Hilton Head Island

Today	Tonight	Saturday	Saturday Night	Sunday	Sunday Night	Monday
						
40%	30%	50%	50%	60%	40%	60%
Chance T-storms	Chance T-storms	Chance T-storms	Chance T-storms	T-storms Likely	Chance T-storms	T-storms Likely
Hi 86 °F	Lo 79 °F	Hi 86 °F	Lo 78 °F	Hi 88 °F	Lo 79 °F	Hi 88 °F

Today: A 40 percent chance of showers and thunderstorms, mainly after noon. Mostly cloudy, with a high near 86. South wind 8 to 14 mph.

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Saturday Night: A 50 percent chance of showers and thunderstorms. Mostly cloudy, with a low around 78. South wind 10 to 13 mph. New rainfall amounts between a quarter and half of an inch possible.

Sunday: Showers and thunderstorms likely, mainly after noon. Mostly cloudy, with a high near 88. Southwest wind around 11 mph. Chance of precipitation is 60%. New rainfall amounts between a quarter and half of an inch possible.

Sunday Night: A 40 percent chance of showers and thunderstorms. Mostly cloudy, with a low around 79.

Monday: Showers and thunderstorms likely. Mostly cloudy, with a high near 88. Chance of precipitation is 60%.

Point Forecast: Sea Pines Plantation SC
32.13 -80.74 (Elev. 0 ft)

Visit your local NWS office at https://www.weather.gov/chs

Rip Risk / Low

Life threatening rip currents often occur in the vicinity of inlets, groins, jetties, and piers. Always supervise those who cannot swim and remember to heed the advice of the local beach patrol and flag warning systems.

UV Index / High

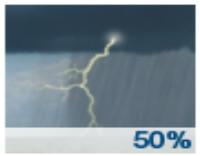
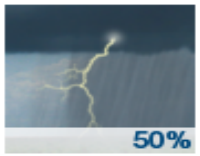
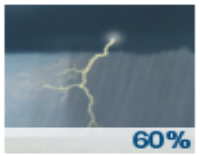
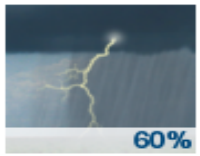
High risk of harm from unprotected sun exposure.
Protection against sunburn is needed. Reduce time in the sun between 10 a.m. and 4 p.m. Cover up, wear a hat and sunglasses, and use sunscreen.

Water Temperature

Mid 80s

National Weather Service Charleston, SC
Last update on 5 Jul 08:50 am EDT

Beach forecast for Daufuskie Island

Today	Tonight	Saturday	Saturday Night	Sunday	Sunday Night	Monday
						
50%	30%	50%	40%	60%	40%	60%
Chance T-storms	Chance T-storms	Chance T-storms	Chance T-storms	T-storms Likely	Chance T-storms	T-storms Likely
Hi 87 °F	Lo 78 °F	Hi 86 °F	Lo 78 °F	Hi 89 °F	Lo 78 °F	Hi 88 °F

Today: A 50 percent chance of showers and thunderstorms, mainly after 11am. Mostly cloudy, with a high near 87. South wind 6 to 14 mph. New rainfall amounts between a quarter and half of an inch possible.

Tonight: A 30 percent chance of showers and thunderstorms, mainly before midnight. Mostly cloudy, with a low around 78. South wind 6 to 13 mph.

Saturday: A 50 percent chance of showers and thunderstorms. Mostly cloudy, with a high near 86. South wind 7 to 11 mph. New rainfall amounts between a quarter and half of an inch possible.

Saturday Night: A 40 percent chance of showers and thunderstorms. Mostly cloudy, with a low around 78. South wind 10 to 13 mph.

Sunday: Showers and thunderstorms likely, mainly after noon. Mostly cloudy, with a high near 89. Southwest wind around 11 mph. Chance of precipitation is 60%. New rainfall amounts between a tenth and quarter of an inch, except higher amounts possible in thunderstorms.

Sunday Night: A 40 percent chance of showers and thunderstorms. Mostly cloudy, with a low around 78.

Monday: Showers and thunderstorms likely. Mostly cloudy, with a high near 88. Chance of precipitation is 60%.

Point Forecast: 3 Miles S Daufuskie Island SC
32.08 -80.88 (Elev. 0 ft)

Visit your local NWS office at https://www.weather.gov/chs

Rip Risk / Low

Life threatening rip currents often occur in the vicinity of inlets, groins, jetties, and piers. Always supervise those who cannot swim and remember to heed the advice of the local beach patrol and flag warning systems.

UV Index / High

High risk of harm from unprotected sun exposure.
Protection against sunburn is needed. Reduce time in the sun between 10 a.m. and 4 p.m. Cover up, wear a hat and sunglasses, and use sunscreen.

Water Temperature

Mid 80s

Southern Beaufort County Tides

Tides for Pinckney Island, Mackay Creek, Chechessee River starting with July 5, 2019.

Day		High /Low	Tide Time	Height Feet	Sunrise Sunset	Moon	Time	% Moon Visible
F	5	Low	5:28 AM	-0.6	6:22 AM	Rise	9:22 AM	5
	5	High	11:33 AM	7.2	8:33 PM	Set	11:16 PM	
	5	Low	5:41 PM	-0.7				
	5	High	11:56 PM	8.5				
Sa	6	Low	6:18 AM	-0.6	6:22 AM	Rise	10:31 AM	12
	6	High	12:33 PM	7.3	8:33 PM	Set	11:58 PM	
	6	Low	6:34 PM	-0.5				
Su	7	High	12:52 AM	8.3	6:23 AM	Rise	11:38 AM	21
	7	Low	7:09 AM	-0.5	8:33 PM			
	7	High	1:34 PM	7.4				
	7	Low	7:31 PM	-0.3				
M	8	High	1:50 AM	8.0	6:23 AM	Set	12:36 AM	31
	8	Low	8:03 AM	-0.5	8:33 PM	Rise	12:44 PM	
	8	High	2:34 PM	7.5				
	8	Low	8:32 PM	0.0				
Tu	9	High	2:46 AM	7.7	6:24 AM	Set	1:12 AM	42
	9	Low	8:59 AM	-0.4	8:33 PM	Rise	1:48 PM	
	9	High	3:31 PM	7.6				
	9	Low	9:36 PM	0.2				
W	10	High	3:41 AM	7.5	6:24 AM	Set	1:47 AM	53
	10	Low	9:57 AM	-0.3	8:33 PM	Rise	2:51 PM	
	10	High	4:28 PM	7.8				
	10	Low	10:41 PM	0.3				
Th	11	High	4:36 AM	7.2	6:25 AM	Set	2:23 AM	64
	11	Low	10:55 AM	-0.2	8:32 PM	Rise	3:53 PM	
	11	High	5:23 PM	7.9				
	11	Low	11:42 PM	0.3				

Northern Beaufort County Tides

Tides for Beaufort starting with July 5, 2019.

Day		High /Low	Tide Time	Height Feet	Sunrise Sunset	Moon	Time	% Moon Visible
F	5	Low	5:54 AM	-0.7	6:21 AM	Rise	9:22 AM	5
	5	High	12:06 PM	7.4	8:34 PM	Set	11:16 PM	
	5	Low	6:07 PM	-0.8				
Sa	6	High	12:29 AM	8.8	6:21 AM	Rise	10:30 AM	12
	6	Low	6:44 AM	-0.7	8:33 PM	Set	11:58 PM	
	6	High	1:06 PM	7.5				
	6	Low	7:00 PM	-0.5				
Su	7	High	1:25 AM	8.6	6:22 AM	Rise	11:38 AM	21
	7	Low	7:35 AM	-0.6	8:33 PM			
	7	High	2:07 PM	7.6				
	7	Low	7:57 PM	-0.3				
M	8	High	2:23 AM	8.2	6:22 AM	Set	12:36 AM	31
	8	Low	8:29 AM	-0.5	8:33 PM	Rise	12:43 PM	
	8	High	3:07 PM	7.7				
	8	Low	8:58 PM	0.0				
Tu	9	High	3:19 AM	7.9	6:23 AM	Set	1:11 AM	42
	9	Low	9:25 AM	-0.4	8:33 PM	Rise	1:47 PM	
	9	High	4:04 PM	7.8				
	9	Low	10:02 PM	0.2				
W	10	High	4:14 AM	7.7	6:23 AM	Set	1:47 AM	53
	10	Low	10:23 AM	-0.3	8:33 PM	Rise	2:50 PM	
	10	High	5:01 PM	8.0				
	10	Low	11:07 PM	0.3				
Th	11	High	5:09 AM	7.4	6:24 AM	Set	2:22 AM	64
	11	Low	11:21 AM	-0.2	8:32 PM	Rise	3:53 PM	
	11	High	5:56 PM	8.1				

MyCoast

A total of 128 individual King Tides (≥ 6.6' above mean lower low water (MLLW)) were observed in 2017, while 35 events were predicted. Observed inundation time from King Tides totaled 249 hours. The maximum water level reached for the year occurred during Tropical Storm Irma on September 11 at 1:18 p.m. when the Charleston Harbor Tide Station registered waters at 9.92' above MLLW. This is the third highest water level recorded at this tide station since data collection began in 1899.

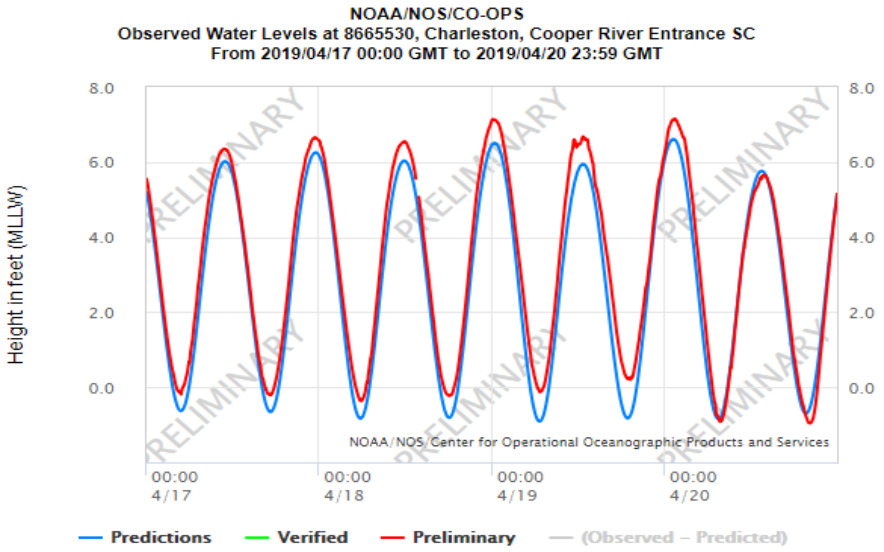
2019 Predicted King Tides

- January 21-22
- April 19-20
- July 3-4
- July 30 – August 3
- August 28 – September 1
- September 25 – October 2
- October 26-31
- November 25-28

DATE	AM/PM	KING TIDE PREDICTED?	KING TIDE OBSERVED?	PREDICTED WATER LEVEL	OBSERVED WATER LEVEL	DIFFERENCE
April 17	PM	No	Yes	6.3	6.7	0.4
April 18	AM	No	Yes	6	6.6	0.6
April 18	PM	No	Yes	6.5	7.1	0.6
April 19	AM	No	Yes	6	6.7	0.7
April 19	PM	Yes	Yes	6.6	7.2	0.6
April 20	PM	Yes	No	6.6	6.1	-0.5

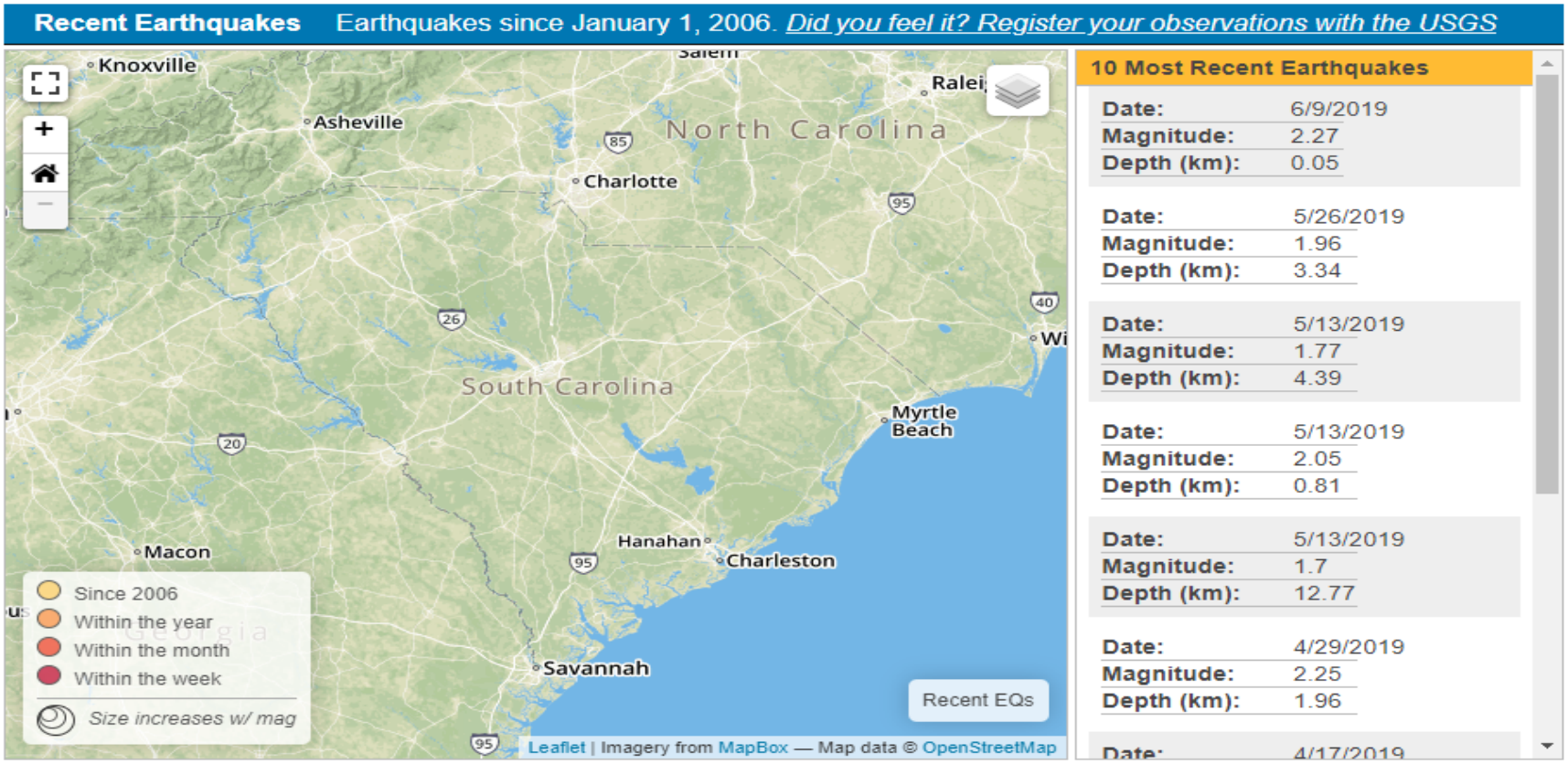
Summary of April 2019 South Carolina King Tides

Highest Predicted Tide: 6.6'
Highest Observed Tide: 7.2'
Predicted King Tides: 2
Observed King Tides: 5



South Carolina Earthquakes within the Week

www.dnr.sc.gov/geology/RecentEarthquakes.htm



Earthquakes in South Carolina

Earthquakes are regular occurence in South Carolina. The Palmetto State has a seismic past and will, no doubt, tremble again as quakes shake the ground beneath our feet. The South Carolina Geological Survey (SCGS) is interested in making South Carolinians aware of our seismic past, what causes our earthquakes, what is being done to reduce the losses that will result from future quakes, and what you should do before, during, and after an earthquake.

EARTHQUAKE HAZARDS of the South Carolina Coastal Plain 1996

Geologic Compilation by Paul G. Nystrom, Jr.
Assisted by C. W. Clendenin, Jr. and William R. Doar, III
SC Department of Natural Resources,
Geological Survey

SCGS

An example of a sand blow, generally referred to as liquifaction, associated with the Charleston 1886 Earthquake.

INDEX MAP SHOWING COASTAL PLAIN REGION

MAP GUIDE

- Low or no potential for earthquake hazards
- Potential for Liquefaction
- Potential for Landslide
- Potential for Collapse
- Fall Line

- Liquefaction features caused by Charleston 1886 Earthquake
- Prehistoric Liquefaction features (Talwani & Cox, 1985; Amick, 1990; Schaeffer, 1993)
- Prehistoric Liquefaction features (Obermeier and others, 1987; 1990)

- Lakes and Rivers
- Municipalities
- County Boundary
- Interstate
- US Highway
- Railroad
- Powerline
- Gas Pipeline
- Airport - Runway 3000-5000 ft
- Airport - Runway >5000 ft
- Bridge - Interstate
- Bridge - Major Road
- Hospital
- Nuclear Reactor
- High Hazard Dam
- Significant Hazard Dam

Map prepared under a grant from the Federal Emergency Management Agency, National Earthquake Hazard Reduction Program, and the South Carolina Emergency Preparedness Division.

Original Digital Compilation and Cartography by:
University of South Carolina, Division of Libraries and Information Systems, Digital Mapping Services, 1996
Cartography revised by South Carolina Geological Survey, 2009

DISCLAIMER

This map was necessarily based on limited data, resources and available time spent on the project, and information presented on the map includes subjective assumptions. The map information should NOT be used in place of site-specific studies. The relative hazard zones are not intended to replace site-specific evaluations, such as for engineering analysis and design. Site-specific earthquake hazards should be assessed through geotechnical investigation by qualified practitioners. This map has been designed as a tool for use of planners for the responses and recovery from a major earthquake disaster. It may be useful to particular planners and regulators as a generalized guide to regional earthquake hazard potential. However, this map should NOT be used for land use zoning, building code requirements, or defining insurance rate zones.

MAP COMPILATION

This map has been designed as a tool for use by emergency managers in planning for the response to and recovery from a major earthquake disaster. It also may be useful to land use planners and regulators as a generalized guide to regional earthquake hazard mitigation actions. This is a deterministic map that assumes the occurrence of a destructive earthquake in the Coastal Plain region of South Carolina.

The primary data sources used to compile this map are the four hundred forty-three 7.5-minute topographic maps of the Coastal Plain, existing geologic maps at various scales, maps showing locations of paleoliquefaction features, and a map of the liquefaction features created by the 1886 Charleston earthquake. The quality of the data varies according to the type of data and the location.

Soil liquefaction potential is based on the interpretation of thick, cohensionless material (mostly sands) combined with a high water table. The area with liquefaction potential includes the coastal zone and, extending inland, the floodplains of rivers and streams. The delineation of the coastal zone follows that of Obermeier and others (1987; 1990), who reconstructed the area of predominantly marine sediments younger than about 240,000 years for pre-1886 sand blows. Areas with liquefaction potential along rivers and streams were mapped from the configuration of floodplains on 7.5-minute topographic maps.

Paleoliquefaction features shown on the map were transferred from maps prepared by Dr. Pradeep Talwani and his students at the University of South Carolina (Talwani and Cox, 1985; Amick, 1990; and Schaeffer, 1993), and from Obermeier and others (1987; 1990) of the U.S. Geological Survey. The liquefaction features formed by the 1886 Charleston earthquake were transferred from Earle Sloan's map presented in Dutton (1889, plate 28). Areas with collapse potential were mapped on the presence of karst features (sinkholes, caves, losing streams of springs). However, as a result of map scale and limited mapping, collapse potential is very generalized. Areas with landslide potential are based on the presence of steep slopes (greater than 20% grade) and thick, cohensionless materials. The cohensionless materials include thick and thin units that mainly consist of sand with some clay beds. Areas with landslide potential were recognized from examination of 1:24,000 scale 7.5-minute topographic maps. However, earthquake shaking could exploit these conditions and create problems in specific areas.

ACKNOWLEDGEMENTS

Pradeep Talwani of the University of South Carolina freely gave his time and knowledge to assist us in the preparation of this map. His insightful comments greatly improved the product. Steve Obermeier of the U.S. Geological Survey kindly provided information not otherwise available.

Dave Hoffman of the Missouri Department of Natural Resources supplied earthquake hazards maps of southeast Missouri and St. Louis areas. His written explanation of how the latter map was compiled proved especially helpful. Bob Baum of the Rhode Geological Survey and John Beaulieu of the Oregon Department of Geology and Mineral Industries furnished hazard maps from their respective states. Their maps and advice were valuable guides in preparing the South Carolina map.

Special thanks to Sid Miller of the South Carolina Geodetic Survey, who allowed unlimited access to all 7.5-minute topographic maps for the South Carolina Coastal Plain.

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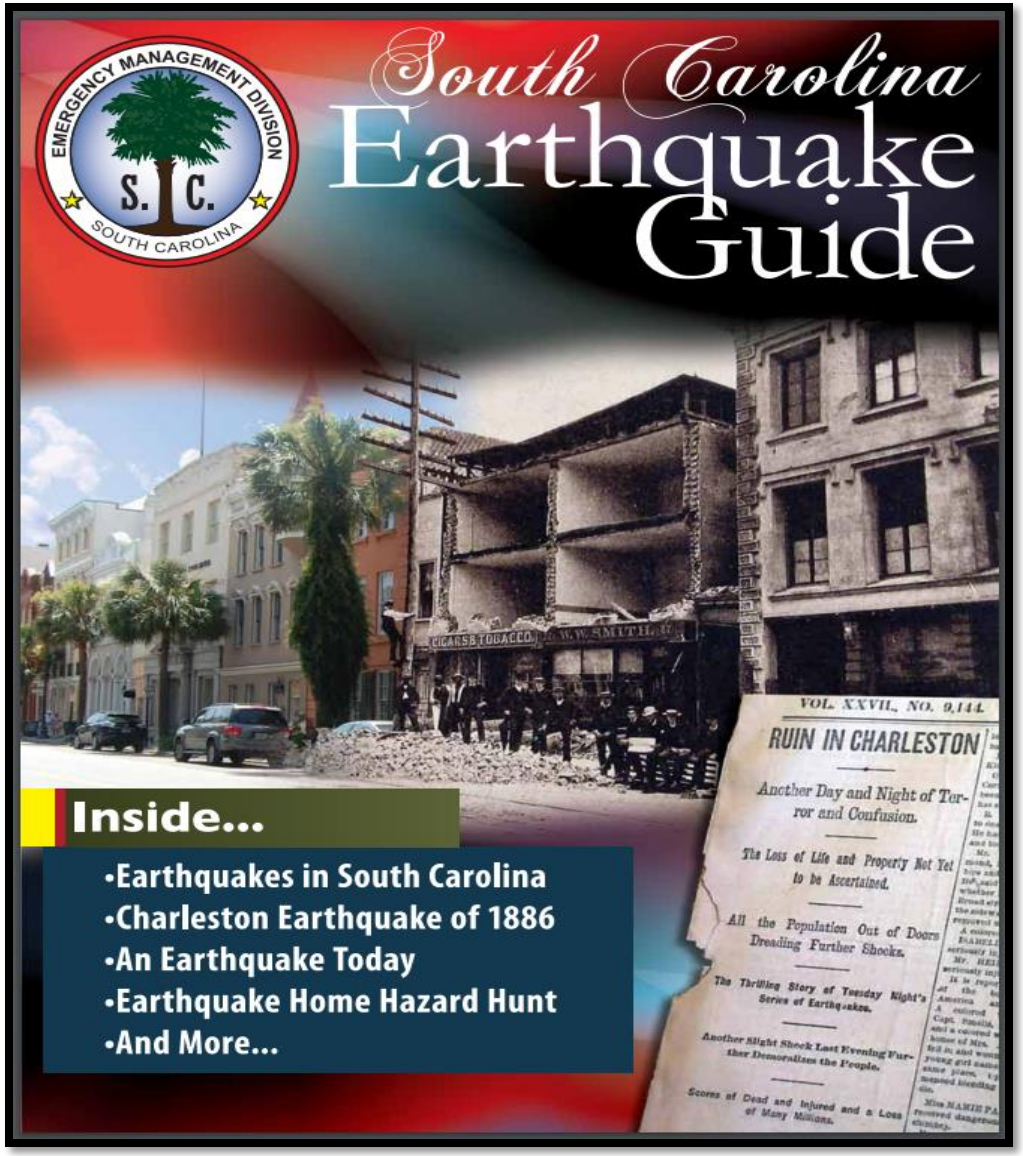
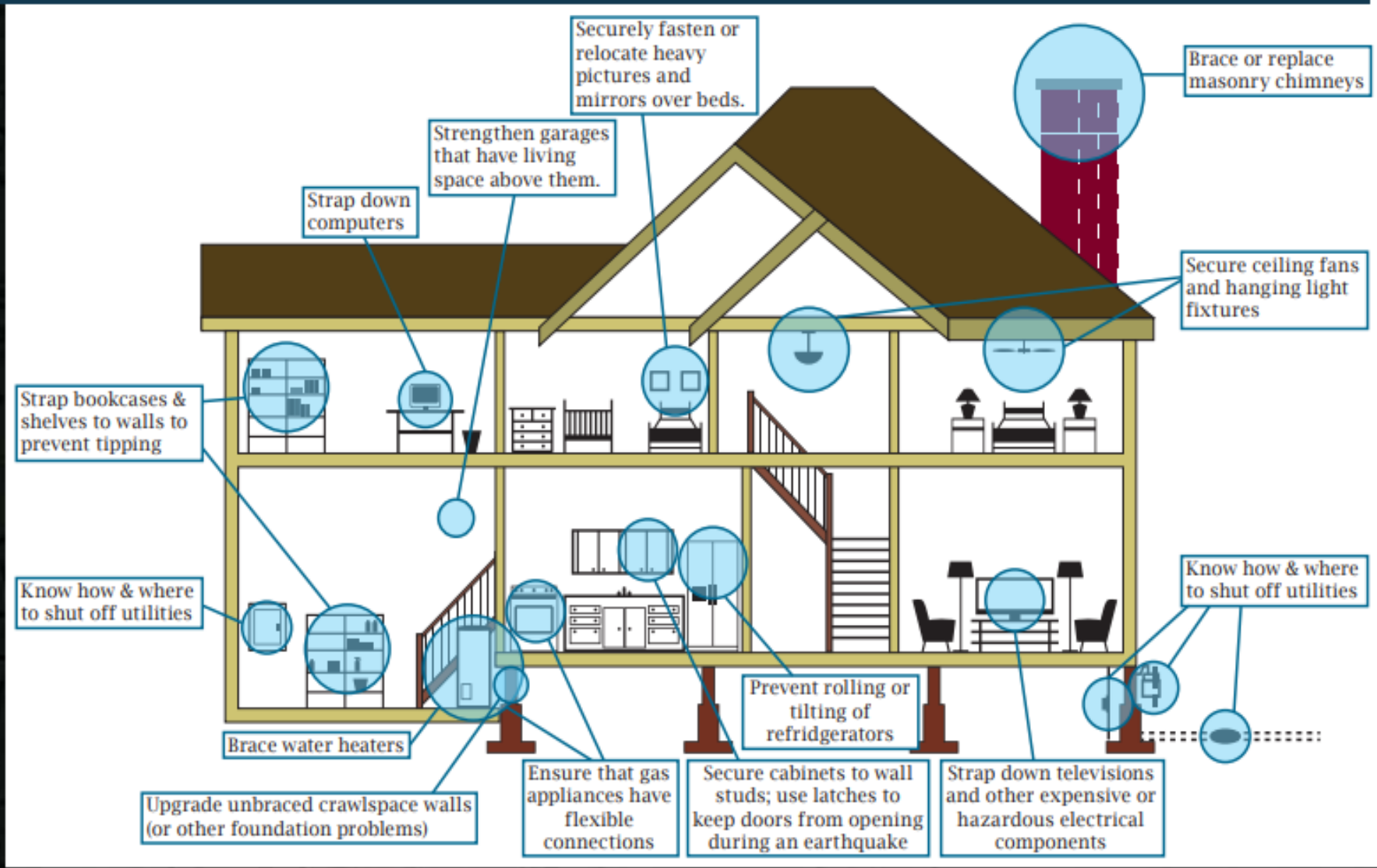
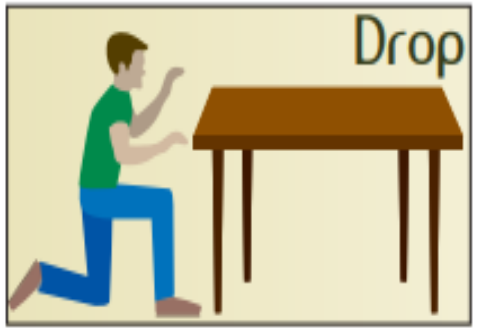


Earthquake Home Hazard Hunt

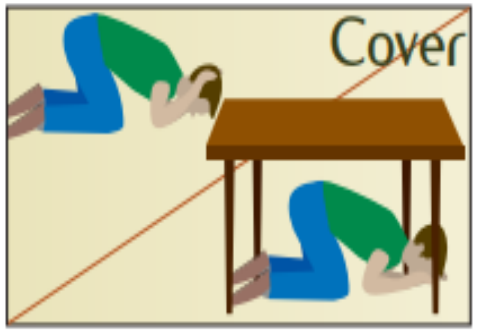
Recommendations for reducing earthquake hazards in your home.



When the Ground Moves



DROP down on the floor:



Take **COVER** under a sturdy desk, table or other furniture. If that is not possible, seek cover against an interior wall and protect your head and neck with your arms. Avoid danger spots near windows, hanging objects, mirrors, or tall furniture.

If you take cover under a sturdy piece of furniture, **HOLD** on to it and be prepared to move with it. Hold the position until the ground stops shaking and it is safe to move.

Tips

When in a **HIGH-RISE BUILDING**, move against an interior wall if you are not near a desk or table. Protect your head and neck with your arms. Do not use the elevators.

When **OUTDOORS**, move to a clear area away from trees, signs, buildings, or downed electrical wires and poles.

When on a **SIDEWALK NEAR BUILDINGS**, duck into a doorway to protect yourself from falling bricks, glass, plaster and other debris.

When **DRIVING**, pull over to the side of the road and stop. Avoid overpasses and power lines. Stay inside your vehicle until the shaking stops.

When in a **CROWDED STORE OR OTHER PUBLIC PLACE**, move away from display shelves containing objects that could fall. Do not rush for the exit.

When in a **STADIUM OR THEATER**, stay in your seat, get below the level of the back of the seat and cover your head and neck with your arms.

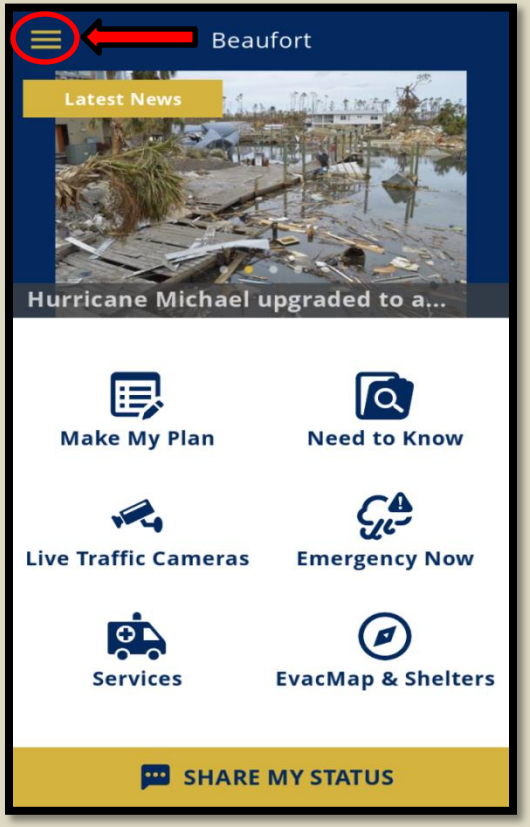
The Beaufort County Sheriff's Office Emergency Management Division App

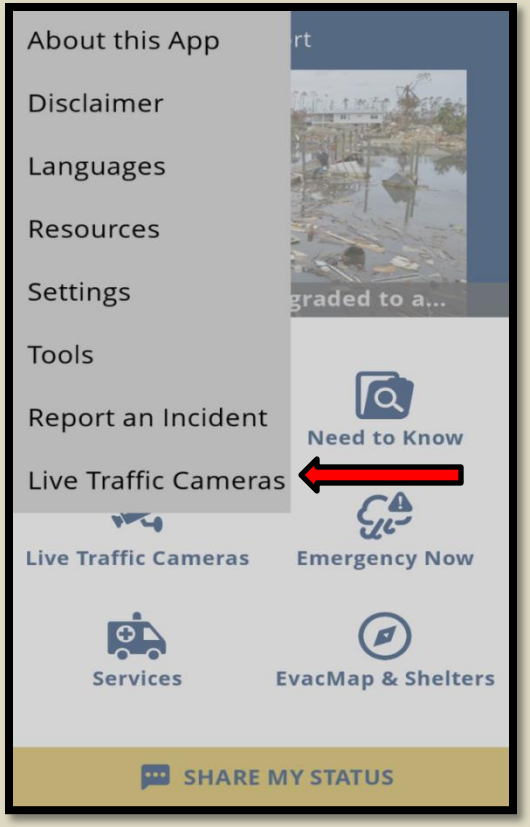
Download for free

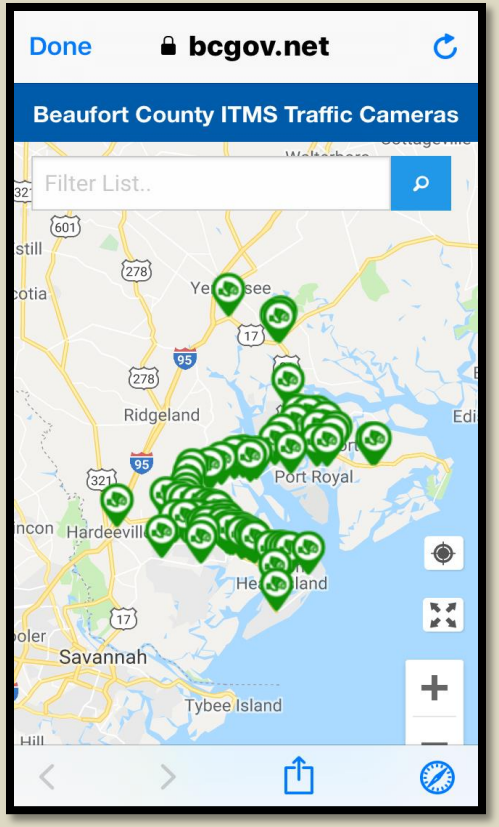
Available on the App Store

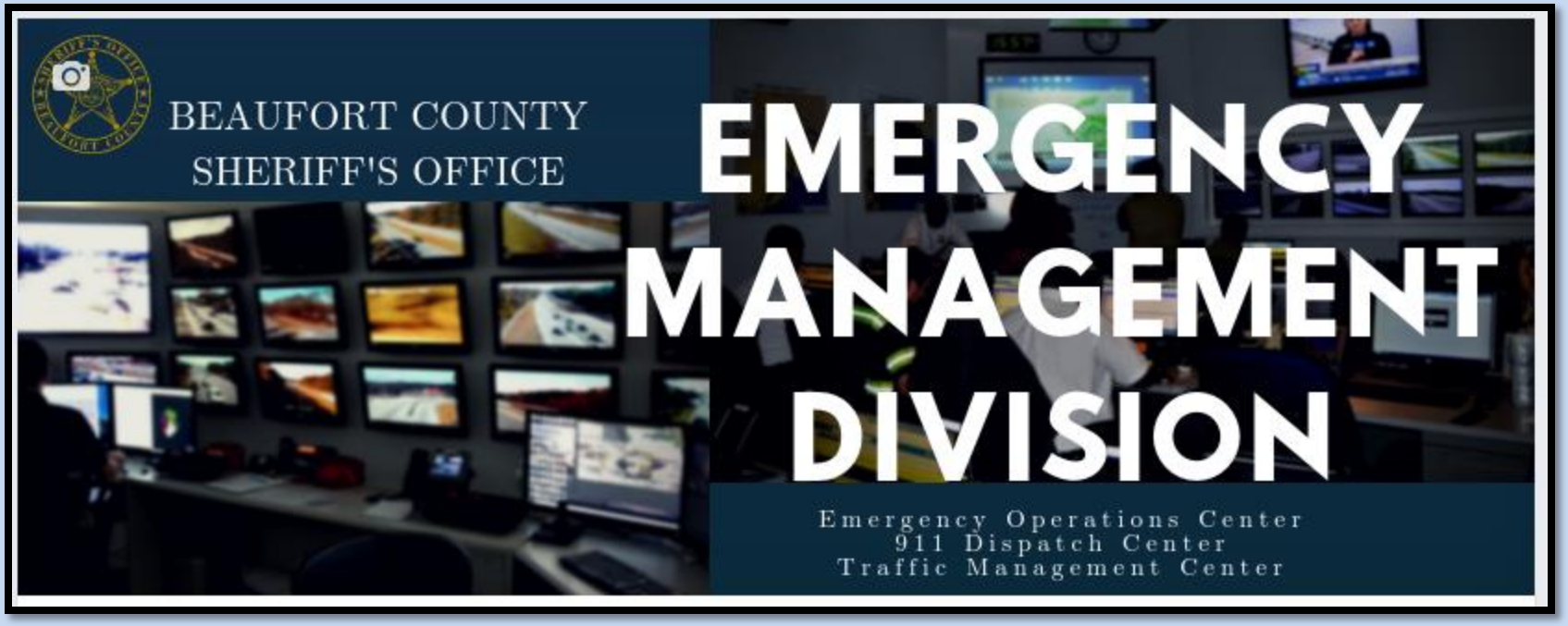
GET IT ON Google Play

The Beaufort County Emergency Management app gives a live view of the traffic cameras in Beaufort County. These cameras can be selected from the layer menu located in the top left corner. See example below:









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Smart-911

A web based database that allows citizens to preload vital information into a secure database. When the citizen then dials 911, the database automatically provides the 911 operator with the information the caller has preloaded. This can include information from pictures of the home to medicines the caller and/or victim is taking. This information is only available to the dispatcher during the time of the call. Success stories around the country include missing Alzheimer's patients where a picture was included in the Smart 911 database. The 911 operator was immediately provided the responders with a current picture of the victim which results in a quick location of the victim. Sign up is free, voluntary and customizable by the caller.

Select Language

Smart911™

SIGN UP SIGN IN

Plan Ahead For Any Emergency

Give 9-1-1 the information they need to help you fast.

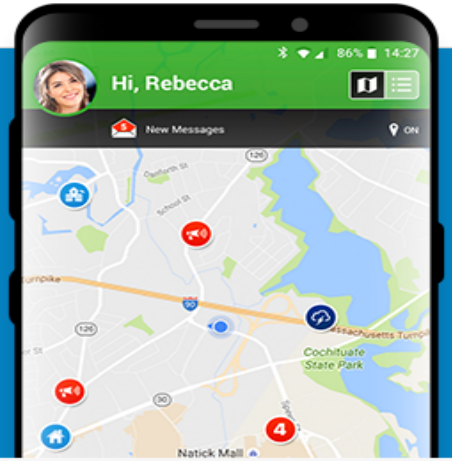
SIGN UP TODAY

Smart911 protects over
45 million people nationwide.

Safety Profile
Provide additional information to 9-1-1 so they can help you faster in an emergency.

Alerts and Notifications
Stay informed of weather, traffic, and other emergencies in your community.

Vulnerable Needs Registry
Alert emergency managers that you need special assistance when a disaster strikes.



Get the Mobile App

Download the Smart911 App today and have life-saving capabilities at your fingertips, 24/7.

Available on the App Store

GET IT ON Google Play

Your Safety Profile Is Free, Private, And Secure.

Add as much or as little to your profile as you want. It's up to you, and your information will only be seen if you ever have to call 9-1-1.

People and Household Info

You can add key information about members of your household that would help anyone you care for in the event of an emergency, whether the call is from the home or any mobile phone.

Learn more ▸

Medical Info

No matter where you or your loved ones are, you can always have peace of mind that responders will know any critical medical condition and how to help before they even arrive.

Learn more ▸

Address and Location Info

Giving responders visual details on an emergency location helps facilitate faster response, as does information on access points like hidden driveways or gate codes.

Learn more ▸

Other Info

You can also add as much or as little information about your vehicles, pets, service animals, along with any special notes that you would want responders to know.

Learn more ▸

if you
SEE
something
SAY
something
REPORT SUSPICIOUS
ACTIVITY to local authorities.
Call 877-OHS-INTEL (877-647-4683)
ALL-STAR GAME 2015

Have a Safe Week!

Beaufort County Sheriff's Office
Emergency Management Division
843-255-4000

MISSION

The mission of the Beaufort County Sheriff's Office Emergency Management Division is to protect lives and property from the threat of all types of major emergencies and disasters, both natural and man-made through preparation, planning and training.

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