

# Beaufort County

## Weekly Operations Briefing

March 29, 2019 thru April 4, 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.



RBC  
*Heritage*

# HARBOUR TOWN

APRIL 15-21, 2019







MCAS  
BEAUFORT

# AIRSHOW

**27-28 APRIL 2019**

GATES OPEN 9 AM | GENERAL ADMISSION IS FREE

**PREMIUM SEATING  
TICKETS ON SALE NOW!**



# This Day in History

[www.history.com](http://www.history.com)

## Earthquake and Volcano do Double Damage in Mexico

- The combination of an earthquake and a volcanic eruption at El Chichon in southern Mexico converts a hill into a crater, kills thousands of people and destroys acres of farmland on this day in 1982. The eruptions, which continued for over a week, caught many of the area residents unaware and unprepared.
- For most of the residents living in the shadow of El Chichon (also known as Chinhonal), the 4,500-foot mountain seemed to pose no danger. Because its last eruption was 130 years earlier and minor, most people ignored its potential for destruction and enjoyed the fertile soil its volcanic past provided. However, late in 1981, two geologists, intrigued by hot springs and steaming gaps in the earth near the volcano, did an investigation that revealed increased seismic activity and the possibility of a major eruption of the volcano. Unfortunately, their report was ignored.
- Area residents also failed to pay attention when the ground began shaking on the night of March 28. But at 5:15 a.m. the following morning, no one could miss the combination earthquake and eruption that exploded the mountain. Ash was sent flying 60,000 feet in the air. About 150 people were killed when their roofs collapsed under raining volcanic debris. Two days later, ash from the eruption fell in Austin, Texas, many hundreds of miles to the north.
- Most of the approximately 2,000 people killed by the eruption died from exposure to the pyroclastic flow, a volatile mix of hot particles and gas. El Chichon lost its entire top, leaving only a large crater 1,000 feet deep and, at less than 700 feet high, shorter than the surrounding hills. Two more major eruptions occurred on April 3 and 4. In these, the debris was sent so high that it came down as virtual landslide on the surrounding villages. Trees and buildings were no match for the dirt and rocks. The debris also blocked streams, causing flooding in the area. Nine entire villages were destroyed and more than 100 square miles of farmland were unusable for years.
- Overall, the energy released by the eruptions, which were similar in scope to the Mount St. Helens eruptions in Washington in 1980, was the equivalent of 8,000 one-kiloton atomic bombs.

# Upcoming Events

• 03/29/19 thru 03/31/19	Lowcountry Home & Garden Show	Bluffton
• 03/30/19	Run / Walk for Hunger	Hilton Head
• 04/02/19	Farmers Market	Hilton Head
• 04/04/19	Farmers Market	Bluffton
• 04/05/19	First Friday After Five	Beaufort
• 04/16/19	Kidfest 2019	Beaufort
• 04/07/19	Easter Egg-Stravaganza	Bluffton
• 04/13/19	Taste of Bluffton	Bluffton
• 04/20/19	Soft Shell Crab Festival	Port Royal
• 04/20/19	Annual Community Easter Egg Hunt	Bluffton
• 04/13/19	Helicopter Egg Drop	Beaufort
• 04/15/19 thru 04/21/19	RBC Heritage Golf Tournament	Hilton Head
• 04/26/19	Sunset Party	Bluffton
• 04/27/19	Palmetto Heart Walk & 5K	Hilton Head
• 04/27/19	Humane Association Dog Walk	Hilton Head
• 04/28/19	Mindful Triathlon	Hilton Head
• 04/27/19	Airshow After Dark	Port Royal
• 04/27/19 thru 04/28/19	MCAS Beaufort Air Show	Beaufort
• 05/11/19	Mayfest-Bluffton Village Festival	Bluffton

# 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
• BROOC	Green
• Air- 1	Green
• Air -2	Green

# Beaufort County Road Conditions



Emergency conditions are marked with this icon

No conditions reported.

County

Interstate

Beaufort

go!

Sort By Road Name





# US 21 Harbor Island Bridge Construction



# Extended Weather Forecast

Extended Forecast for  
**Beaufort SC**

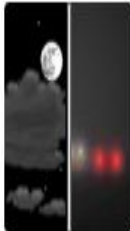
This  
Afternoon



Sunny

High: 73 °F

Tonight



Partly Cloudy  
then Patchy  
Fog

Low: 56 °F

Saturday



Patchy Fog  
then Partly  
Sunny

High: 76 °F

Saturday  
Night



Partly Cloudy

Low: 59 °F

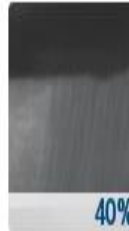
Sunday



Chance  
Showers

High: 77 °F

Sunday  
Night



Chance  
Showers

Low: 51 °F

Monday



Chance  
Showers

High: 59 °F

Monday  
Night



Showers  
Likely

Low: 49 °F

Tuesday



Showers  
Likely

High: 61 °F

# Detailed Weather Briefing

## Detailed Forecast

<b>This Afternoon</b>	Sunny, with a high near 73. Calm wind becoming south 5 to 7 mph.
<b>Tonight</b>	Patchy fog after 5am. Otherwise, partly cloudy, with a low around 56. South wind 5 to 7 mph becoming calm in the evening.
<b>Saturday</b>	Patchy fog before 9am. Otherwise, partly sunny, with a high near 76. Calm wind becoming south 5 to 9 mph in the afternoon.
<b>Saturday Night</b>	Partly cloudy, with a low around 59. South wind around 6 mph.
<b>Sunday</b>	A chance of showers and thunderstorms. Mostly sunny, with a high near 77. Southwest wind 6 to 13 mph. Chance of precipitation is 50%. New rainfall amounts of less than a tenth of an inch, except higher amounts possible in thunderstorms.
<b>Sunday Night</b>	A chance of showers. Mostly cloudy, with a low around 51. Chance of precipitation is 40%.
<b>Monday</b>	A chance of showers. Mostly cloudy, with a high near 59. Chance of precipitation is 40%.
<b>Monday Night</b>	Showers likely. Mostly cloudy, with a low around 49. Chance of precipitation is 60%.
<b>Tuesday</b>	Showers likely. Mostly cloudy, with a high near 61. Chance of precipitation is 70%.
<b>Tuesday Night</b>	Mostly cloudy, with a low around 48.
<b>Wednesday</b>	Sunny, with a high near 68.
<b>Wednesday Night</b>	Partly cloudy, with a low around 53.
<b>Thursday</b>	Mostly sunny, with a high near 72.



# Weather Briefing



**NATIONAL WEATHER SERVICE**  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



## Weather Briefing for Southeast SC/GA



**10:30 AM EDT**

**Friday, March 29, 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  
3/29/2019 10:45 AM

# Weather Briefing



**NATIONAL WEATHER SERVICE**  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



## Highlights

- Cold front will produce showers/isolated thunderstorms Sunday
- Coastal low will likely produce significant rainfall Monday-Tuesday
- Track and strength of coastal low still uncertain: will dictate coastal impacts (winds/tides) and rainfall amounts
- Perhaps additional showers late next week
- Temperatures above normal today through Sunday, below normal Monday-Wednesday, then warming late week





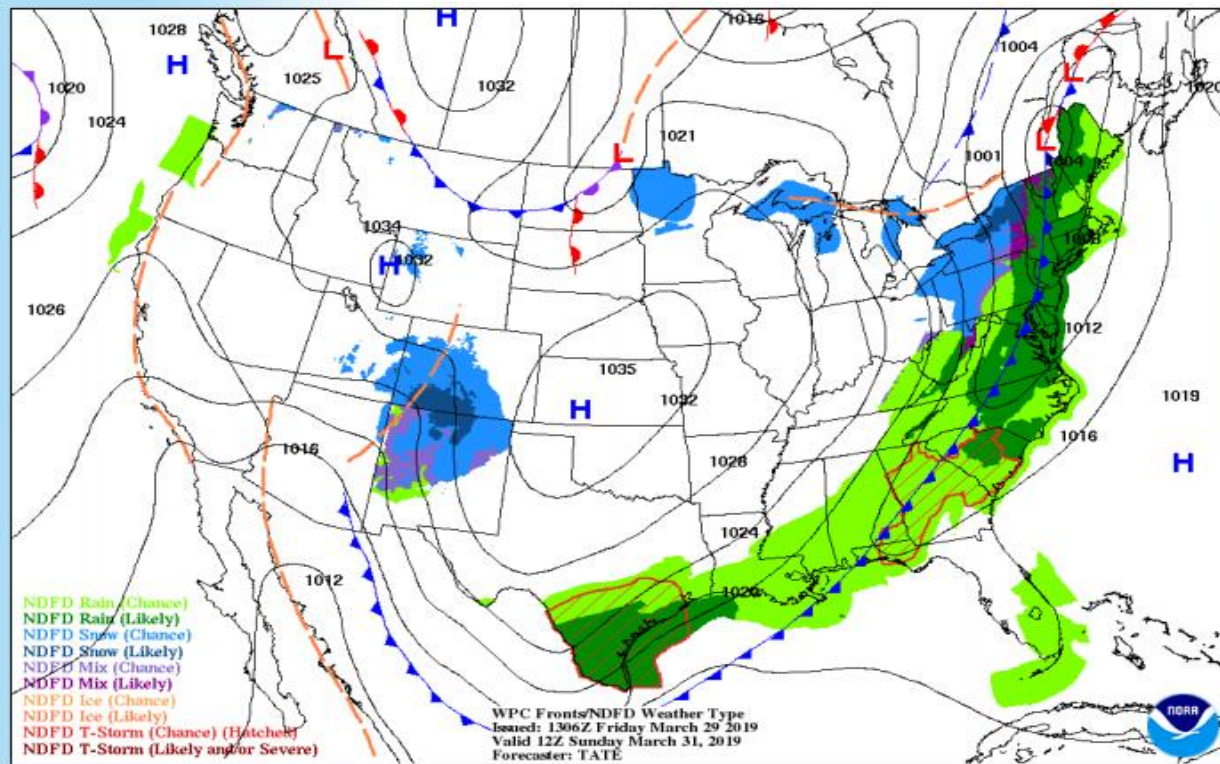
# Weather Briefing



**NATIONAL WEATHER SERVICE**  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



## Sunday Weather Map



- ✓ Cold front with showers / isolated thunderstorms Sunday

# Weather Briefing

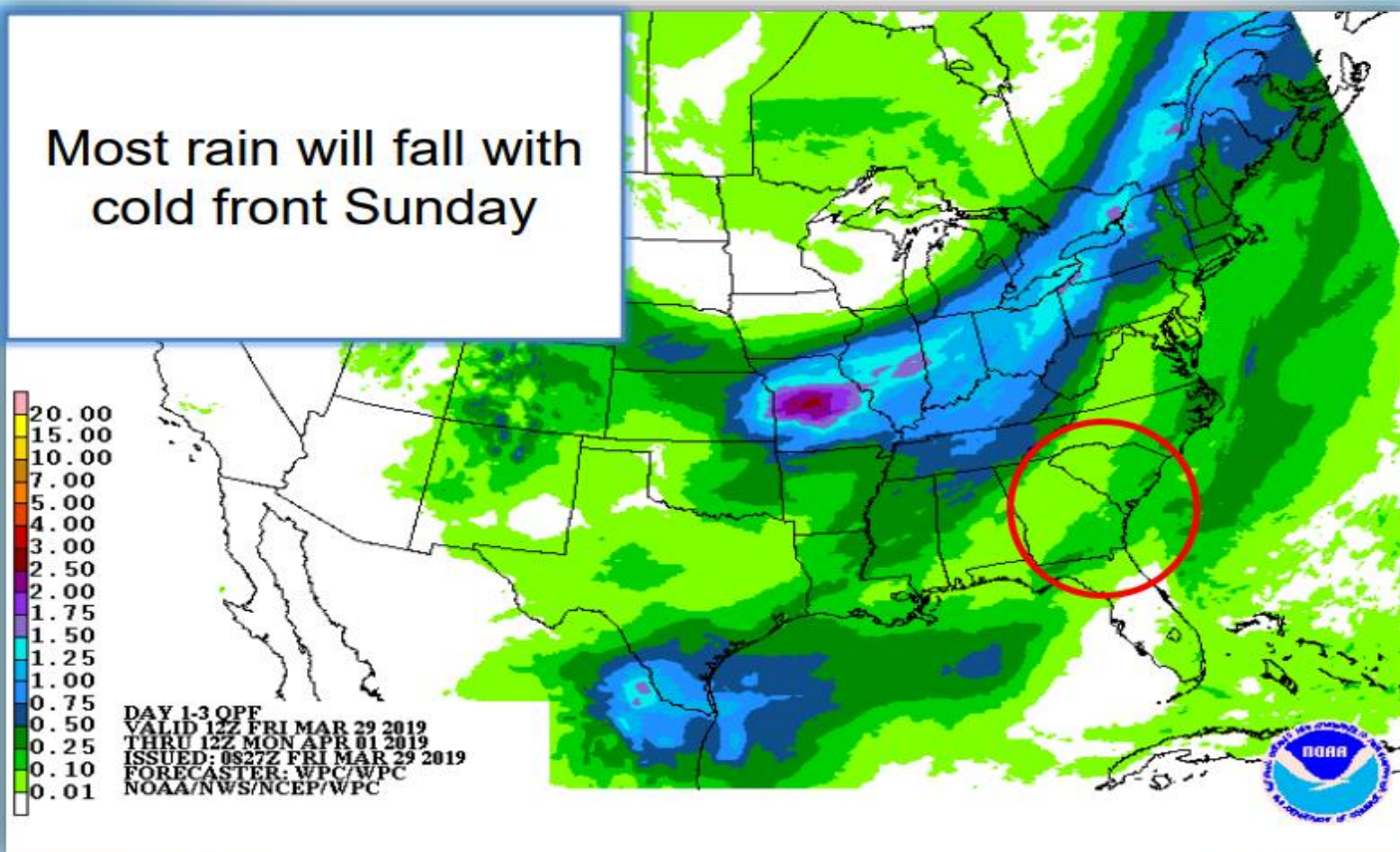


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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



## Forecast Rainfall Through This Weekend

Most rain will fall with  
cold front Sunday



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**Charleston, SC**



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3/29/2019 10:45 AM



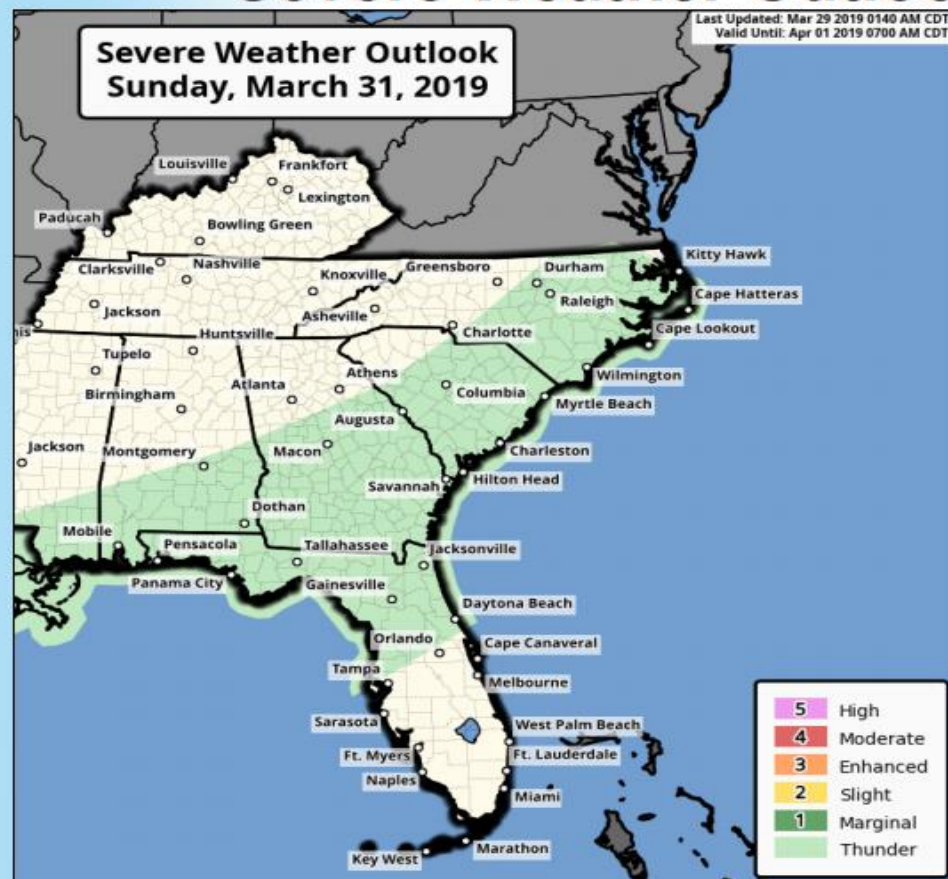
# Weather Briefing



**NATIONAL WEATHER SERVICE**  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



## Severe Weather Outlook: Sunday



✓ Severe weather appears unlikely

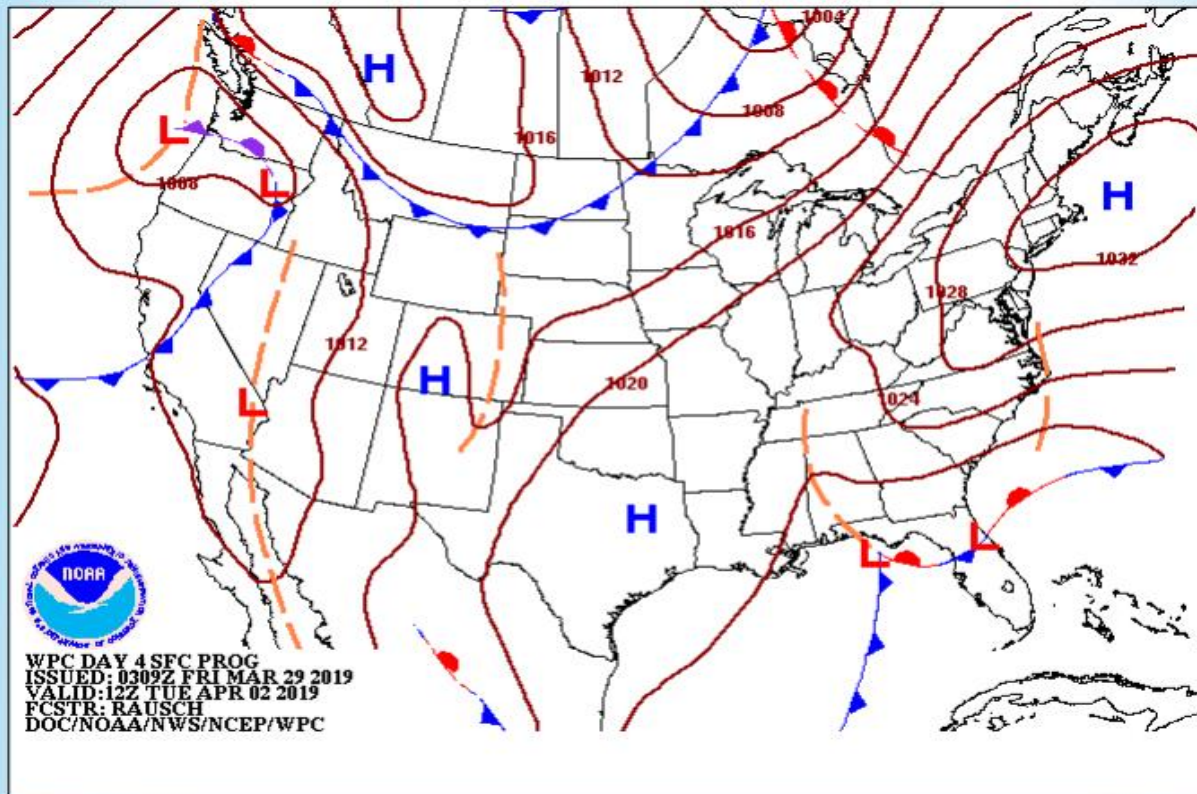
# Weather Briefing



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



## Tuesday Morning Map



- ✓ Coastal low pressure will likely produce significant rainfall Monday-Tuesday



# Weather Briefing

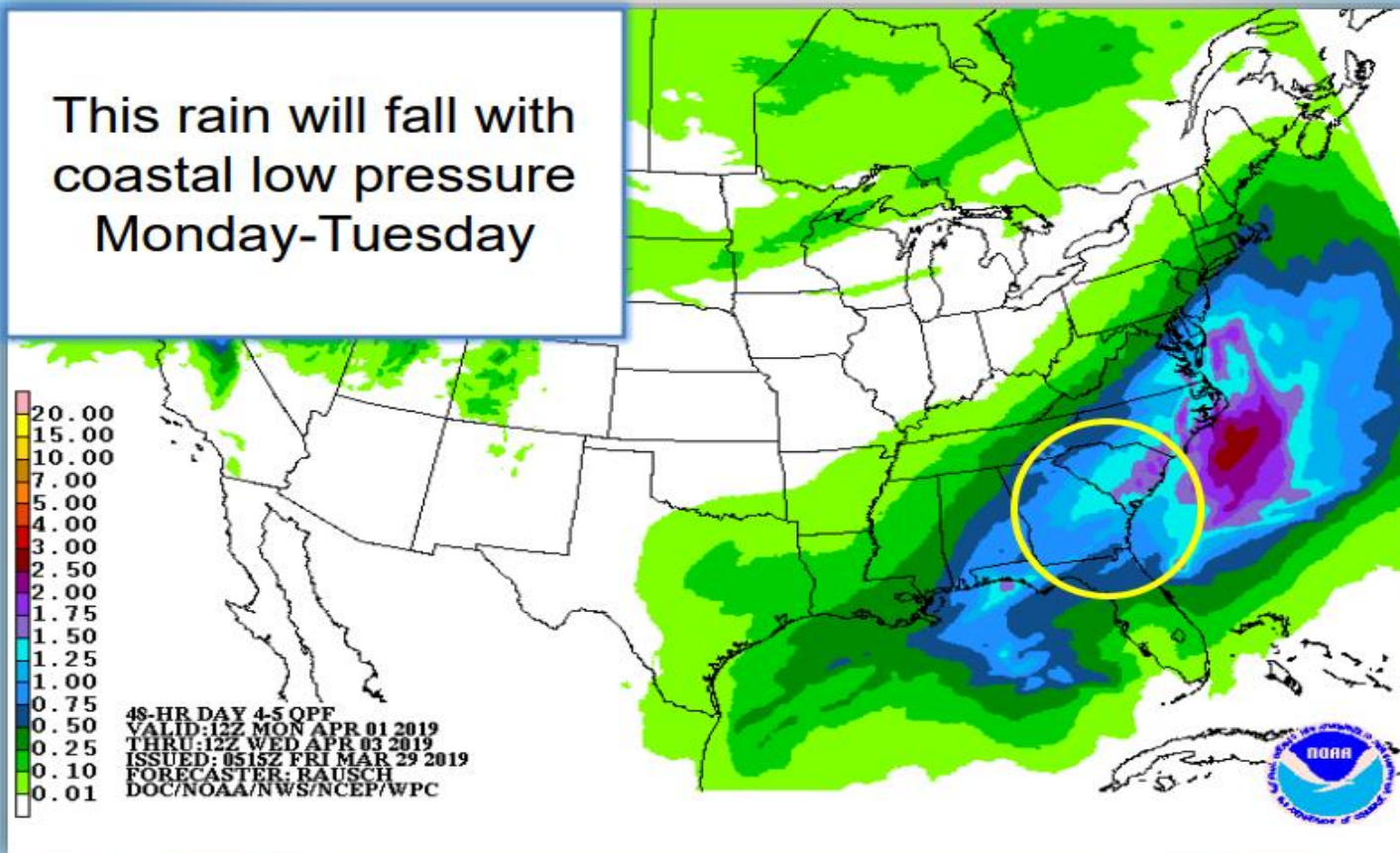


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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



## Forecast Rainfall Mon-Wed

This rain will fall with  
coastal low pressure  
Monday-Tuesday



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**Charleston, SC**

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3/29/2019 10:45 AM



# Weather Briefing

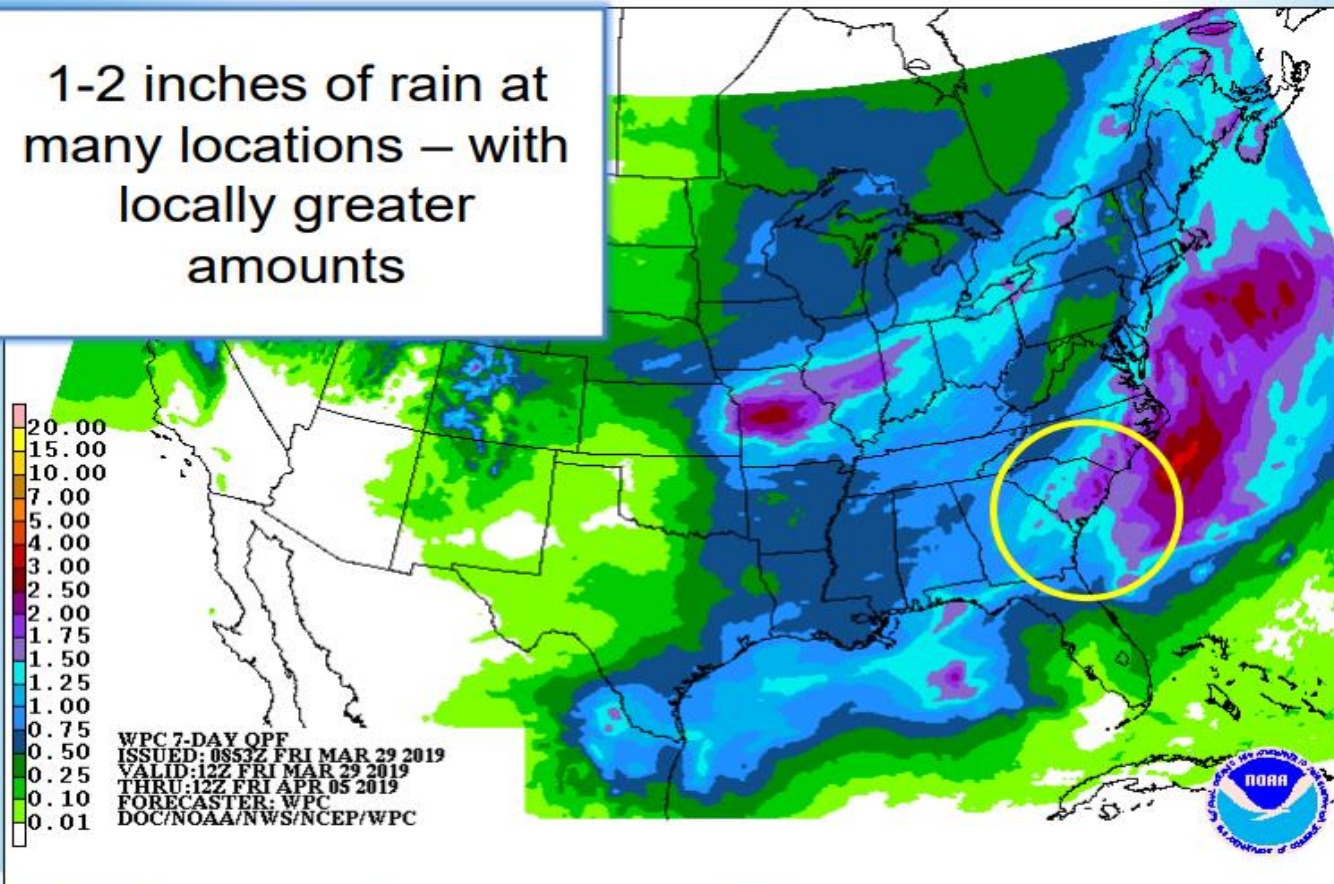


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## Forecast Total Rainfall Through Next Week

1-2 inches of rain at many locations – with locally greater amounts



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**Charleston, SC**



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3/29/2019 10:45 AM

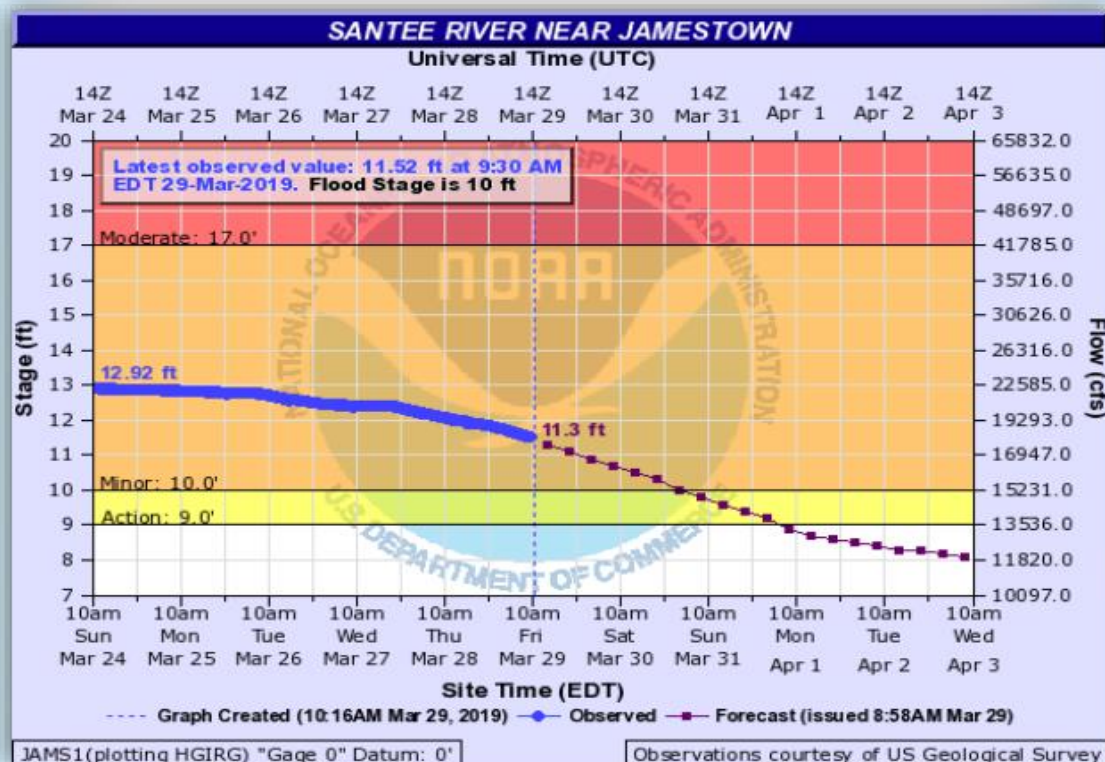
# Weather Briefing



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## Santee River



✓ Remains in minor flood but levels gradually falling





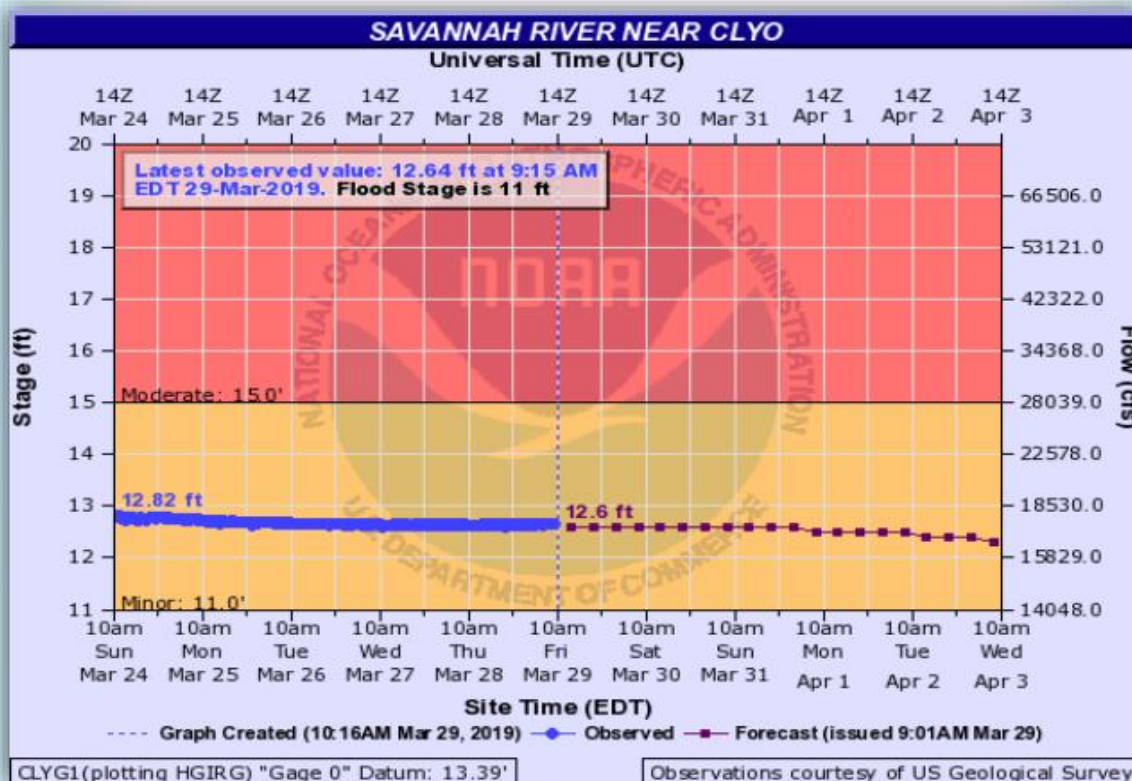
# Weather Briefing



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



## Savannah River



✓ Minor flooding continues near Clio; no significant changes into next week

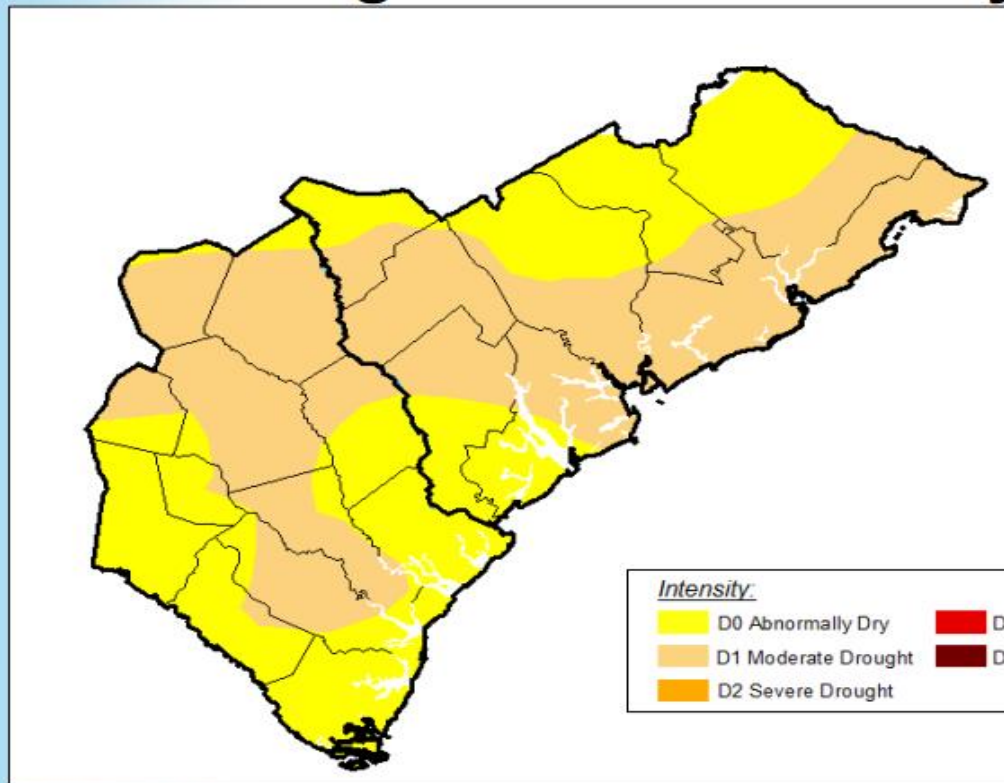
# Weather Briefing



**NATIONAL WEATHER SERVICE**  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



## Drought Status: Thursday 3/28



### Intensity:

Yellow D0 Abnormally Dry

Light Orange D1 Moderate Drought

Dark Orange D2 Severe Drought

Red D3 Extreme Drought

Dark Red D4 Exceptional Drought

✓ Abnormally Dry to Moderate Drought conditions all areas



# Weather Briefing



**NATIONAL WEATHER SERVICE**  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



## Summary / Expected Impacts

- Cold front will produce showers/isolated thunderstorms Sunday
- Coastal low will likely produce significant rainfall Monday-Tuesday
- Track and strength of coastal low still uncertain: will dictate coastal impacts (winds/tides) and rainfall amounts
- Perhaps additional showers late next week
- Temperatures above normal today through Sunday, below normal Monday-Wednesday, then warming late week



# Weather Briefing



**NATIONAL WEATHER SERVICE**  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



## Marine Highlights

- Small Craft Advisory conditions possible Sunday night-Tuesday night
- Gales possible Monday night-Tuesday

## Aviation Highlights

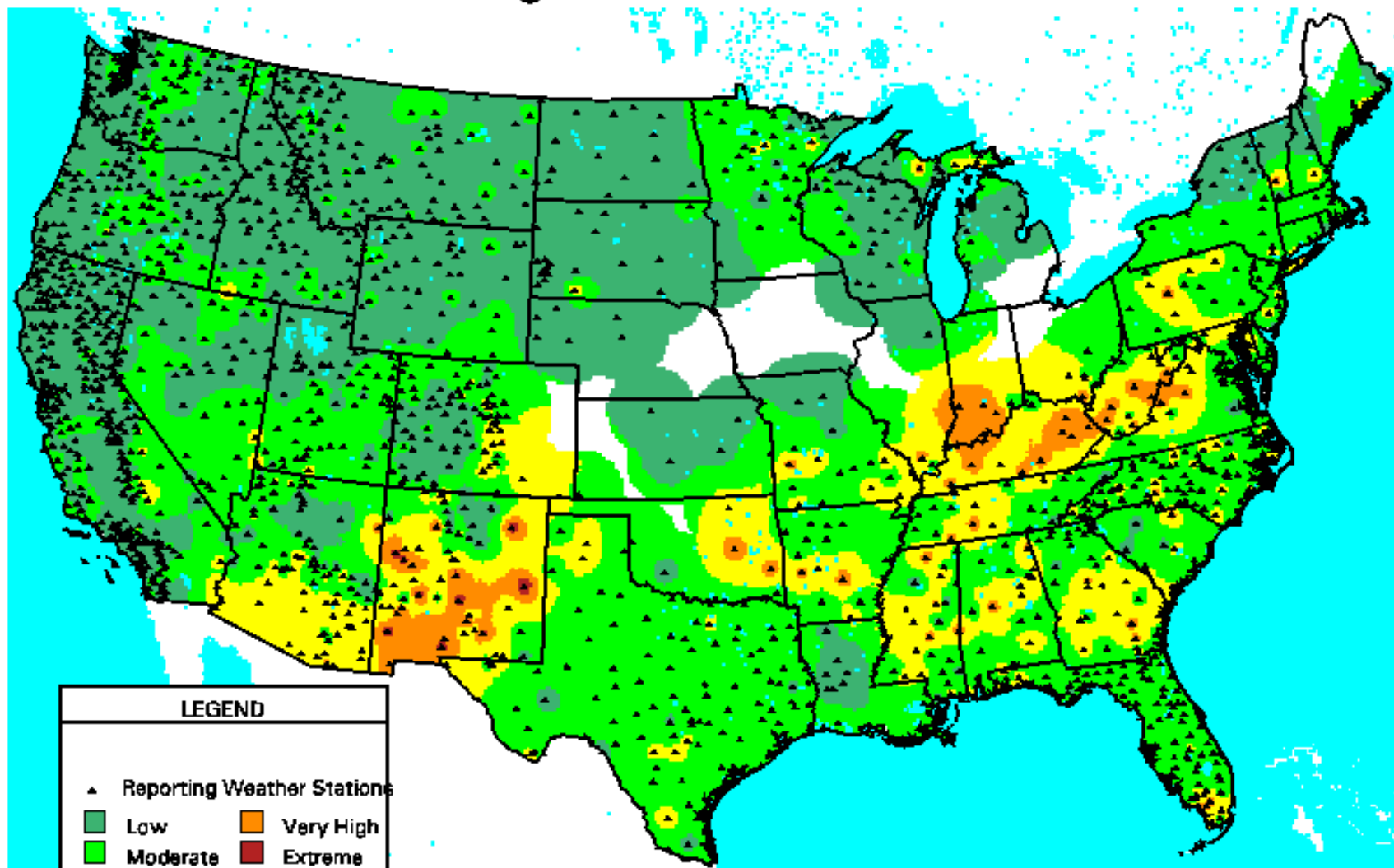
- Patchy ground fog again early Saturday morning.
- Flight restrictions possible especially in showers Sunday pm into Tuesday night

## Fire Weather Highlights

- Elevated southwest winds Sunday then elevated northeast winds Monday through Tuesday, but relative humidity levels remain above critical values through this period



## Observed Fire Danger Class: 28-Mar-19



### LEGEND

- ▲ Reporting Weather Stations
- Low
- Moderate
- High
- Very High
- Extreme
- Water

(Inv. Dist.<sup>2</sup> Interp.)

WFAS-MAPS Graphics FIRE BEHAVIOR RESEARCH MISSOULA, MT



## Beach forecast for Hunting Island

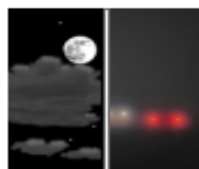
**This  
Afternoon**



Sunny

Hi 68 °F

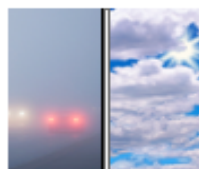
**Tonight**



Partly Cloudy then  
Patchy Fog

Lo 57 °F

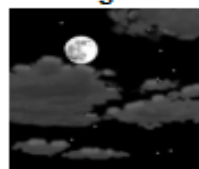
**Saturday**



Patchy Fog then  
Partly Sunny

Hi 67 °F

**Saturday  
Night**



Partly  
Cloudy

Lo 60 °F

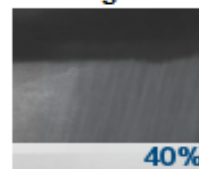
**Sunday**



Chance  
Showers

Hi 69 °F

**Sunday  
Night**



Chance  
Showers

Lo 52 °F

**Monday**



Chance Showers  
and Breezy

Hi 59 °F

**This Afternoon:** Sunny, with a high near 68. Southeast wind 6 to 9 mph.

**Tonight:** Patchy fog after 5am. Otherwise, partly cloudy, with a low around 57. South wind 5 to 8 mph becoming calm after midnight.

**Saturday:** Patchy fog before 9am. Otherwise, partly sunny, with a high near 67. Calm wind becoming south 5 to 8 mph in the afternoon.

**Saturday Night:** Partly cloudy, with a low around 60. South wind 6 to 8 mph.

**Sunday:** A chance of showers and thunderstorms. Mostly sunny, with a high near 69. Southwest wind 9 to 14 mph. Chance of precipitation is 50%. New rainfall amounts of less than a tenth of an inch, except higher amounts possible in thunderstorms.

**Sunday Night:** A chance of showers. Mostly cloudy, with a low around 52. Chance of precipitation is 40%.

**Monday:** A chance of showers. Mostly cloudy, with a high near 59. Breezy. Chance of precipitation is 50%.

**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 / Very High








**Very high risk of harm from unprotected sun exposure.**

Take extra precautions. Unprotected skin will be damaged and can burn quickly. Minimize sun exposure between 10 a.m. and 4 p.m. Otherwise, seek shade, cover up, wear a hat and sunglasses, and use sunscreen.

## Water Temperature

**Lower 60s**

## Beach forecast for Fripp Island

This Afternoon	Tonight	Saturday	Saturday Night	Sunday	Sunday Night	Monday
						
Sunny	Partly Cloudy then Patchy Fog	Patchy Fog then Partly Sunny	Partly Cloudy	Slight Chance Showers then Chance Showers	Chance Showers	Chance Showers and Breezy
Hi 65 °F	Lo 59 °F	Hi 65 °F	Lo 60 °F	Hi 66 °F	Lo 52 °F	Hi 56 °F

**This Afternoon:** Sunny, with a high near 65. Southeast wind 6 to 9 mph.

**Tonight:** Patchy fog after 5am. Otherwise, partly cloudy, with a low around 59. South wind 5 to 8 mph becoming calm after midnight.

**Saturday:** Patchy fog before 9am. Otherwise, partly sunny, with a high near 65. Calm wind becoming south 5 to 7 mph in the afternoon.

**Saturday Night:** Partly cloudy, with a low around 60. South wind around 9 mph.

**Sunday:** A slight chance of showers, then a chance of showers and thunderstorms after 2pm. Mostly sunny, with a high near 66. Southwest wind 9 to 13 mph. Chance of precipitation is 50%. New rainfall amounts of less than a tenth of an inch, except higher amounts possible in thunderstorms.

**Sunday Night:** A chance of showers and thunderstorms. Mostly cloudy, with a low around 52. Chance of precipitation is 40%.

**Monday:** A chance of showers. Mostly cloudy, with a high near 56. Breezy. Chance of precipitation is 50%.

**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 / Very High

**Very high risk of harm from unprotected sun exposure.**






Take extra precautions. Unprotected skin will be damaged and can burn quickly. Minimize sun exposure between 10 a.m. and 4 p.m. Otherwise, seek shade, cover up, wear a hat and sunglasses, and use sunscreen.

### Water Temperature

**Lower 60s**



## Beach forecast for Hilton Head Island

This Afternoon	Tonight	Saturday	Saturday Night	Sunday	Sunday Night	Monday
						
Sunny	Partly Cloudy then Patchy Fog	Patchy Fog then Partly Sunny	Partly Cloudy	Slight Chance Showers then Chance Showers	Chance Showers	Chance Showers and Breezy
Hi 66 °F	Lo 60 °F	Hi 66 °F	Lo 61 °F	Hi 69 °F	Lo 54 °F	Hi 58 °F

**This Afternoon:** Sunny, with a high near 66. Southeast wind 6 to 10 mph.

**Tonight:** Patchy fog after 5am. Otherwise, partly cloudy, with a low around 60. Southeast wind 5 to 8 mph becoming calm after midnight.

**Saturday:** Patchy fog before 9am. Otherwise, partly sunny, with a high near 66. Calm wind becoming southeast 5 to 7 mph in the afternoon.

**Saturday Night:** Partly cloudy, with a low around 61. Southeast wind around 8 mph.

**Sunday:** A slight chance of showers, then a chance of showers and thunderstorms after 2pm. Mostly sunny, with a high near 69. Southwest wind 8 to 11 mph. Chance of precipitation is 50%. New rainfall amounts of less than a tenth of an inch, except higher amounts possible in thunderstorms.

**Sunday Night:** A chance of showers and thunderstorms. Mostly cloudy, with a low around 54. Chance of precipitation is 40%.

**Monday:** A chance of showers. Mostly cloudy, with a high near 58. Breezy. Chance of precipitation is 50%.

**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 / Very High

**Very high risk of harm from unprotected sun exposure.**




Take extra precautions. Unprotected skin will be damaged and can burn quickly. Minimize sun exposure between 10 a.m. and 4 p.m. Otherwise, seek shade, cover up, wear a hat and sunglasses, and use sunscreen.

### Water Temperature

**Lower 60s**



## Beach forecast for Daufuskie Island

This Afternoon	Tonight	Saturday	Saturday Night	Sunday	Sunday Night	Monday
						
Sunny	Partly Cloudy	Partly Sunny	Partly Cloudy	Slight Chance Showers then Chance Showers	Chance Showers	Chance Showers and Breezy
Hi 69 °F	Lo 59 °F	Hi 68 °F	Lo 60 °F	Hi 70 °F	Lo 53 °F	Hi 59 °F

**This Afternoon:** Sunny, with a high near 69. Southeast wind 5 to 10 mph.

**Tonight:** Partly cloudy, with a low around 59. Southeast wind 5 to 8 mph becoming calm after midnight.

**Saturday:** Partly sunny, with a high near 68. Calm wind becoming southeast 5 to 8 mph in the afternoon.

**Saturday Night:** Partly cloudy, with a low around 60. South wind 7 to 9 mph.

**Sunday:** A slight chance of showers, then a chance of showers and thunderstorms after 2pm. Mostly sunny, with a high near 70. Southwest wind 8 to 13 mph. Chance of precipitation is 50%. New rainfall amounts of less than a tenth of an inch, except higher amounts possible in thunderstorms.

**Sunday Night:** A chance of showers and thunderstorms. Mostly cloudy, with a low around 53. Chance of precipitation is 40%.

**Monday:** A chance of showers. Mostly cloudy, with a high near 59. Breezy. Chance of precipitation is 50%.

**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 / Very High

**Very high risk of harm from unprotected sun exposure.**  
Take extra precautions. Unprotected skin will be damaged and can burn quickly. Minimize sun exposure between 10 a.m. and 4 p.m. Otherwise, seek shade, cover up, wear a hat and sunglasses, and use sunscreen.

### Water Temperature

**Lower 60s**

# Southern Beaufort County Tides

## Tides for Pinckney Island, Mackay Creek, Chechessee River starting with March 29, 2019.

Day		High /Low	Tide Time	Height Feet	Sunrise Sunset	Moon	Time	% Moon Visible
F	29	High	4:18 AM	6.7	7:15 AM	Rise	3:25 AM	44
	29	Low	10:39 AM	1.0	7:41 PM	Set	1:51 PM	
	29	High	4:35 PM	6.1				
	29	Low	10:48 PM	1.2				
Sa	30	High	5:15 AM	6.7	7:14 AM	Rise	4:10 AM	34
	30	Low	11:35 AM	1.0	7:41 PM	Set	2:44 PM	
	30	High	5:30 PM	6.2				
	30	Low	11:47 PM	1.0				
Su	31	High	6:10 AM	6.8	7:13 AM	Rise	4:50 AM	26
	31	Low	12:24 PM	0.8	7:42 PM	Set	3:38 PM	
	31	High	6:24 PM	6.6				
M	1	Low	12:38 AM	0.8	7:11 AM	Rise	5:26 AM	18
	1	High	7:01 AM	6.9	7:43 PM	Set	4:32 PM	
	1	Low	1:09 PM	0.5				
	1	High	7:14 PM	6.9				
Tu	2	Low	1:25 AM	0.5	7:10 AM	Rise	6:00 AM	11
	2	High	7:48 AM	7.1	7:43 PM	Set	5:27 PM	
	2	Low	1:51 PM	0.3				
	2	High	7:59 PM	7.2				
W	3	Low	2:09 AM	0.4	7:09 AM	Rise	6:32 AM	6
	3	High	8:30 AM	7.2	7:44 PM	Set	6:21 PM	
	3	Low	2:31 PM	0.1				
	3	High	8:40 PM	7.4				
Th	4	Low	2:50 AM	0.2	7:08 AM	Rise	7:03 AM	2
	4	High	9:08 AM	7.3	7:45 PM	Set	7:16 PM	
	4	Low	3:09 PM	0.0				
	4	High	9:18 PM	7.6				

# Northern Beaufort County Tides

## Tides for Beaufort starting with March 29, 2019.

Day		High /Low	Tide Time	Height Feet	Sunrise Sunset	Moon	Time	% Moon Visible
F	29	High	4:51 AM	6.8	7:15 AM	Rise	3:25 AM	44
	29	Low	11:05 AM	1.0	7:40 PM	Set	1:50 PM	
	29	High	5:08 PM	6.3				
	29	Low	11:14 PM	1.2				
Sa	30	High	5:48 AM	6.8	7:13 AM	Rise	4:10 AM	34
	30	Low	12:01 PM	1.0	7:41 PM	Set	2:43 PM	
	30	High	6:03 PM	6.4				
Su	31	Low	12:13 AM	1.0	7:12 AM	Rise	4:50 AM	26
	31	High	6:43 AM	7.0	7:42 PM	Set	3:37 PM	
	31	Low	12:50 PM	0.9				
	31	High	6:57 PM	6.7				
M	1	Low	1:04 AM	0.9	7:11 AM	Rise	5:26 AM	18
	1	High	7:34 AM	7.1	7:42 PM	Set	4:32 PM	
	1	Low	1:35 PM	0.6				
	1	High	7:47 PM	7.1				
Tu	2	Low	1:51 AM	0.6	7:10 AM	Rise	6:00 AM	11
	2	High	8:21 AM	7.3	7:43 PM	Set	5:26 PM	
	2	Low	2:17 PM	0.3				
	2	High	8:32 PM	7.4				
W	3	Low	2:35 AM	0.4	7:08 AM	Rise	6:32 AM	6
	3	High	9:03 AM	7.4	7:44 PM	Set	6:21 PM	
	3	Low	2:57 PM	0.1				
	3	High	9:13 PM	7.6				
Th	4	Low	3:16 AM	0.2	7:07 AM	Rise	7:03 AM	2
	4	High	9:41 AM	7.5	7:44 PM	Set	7:15 PM	
	4	Low	3:35 PM	0.0				
	4	High	9:51 PM	7.8				






A total of 128 individual King Tides ( $\geq 6.6'$  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
January 21	AM	Yes	Yes	6.6	6.7	0.1
January 22	AM	Yes	Yes	6.6	7.1	0.5
January 23	AM	No	Yes	6.5	7.2	0.7

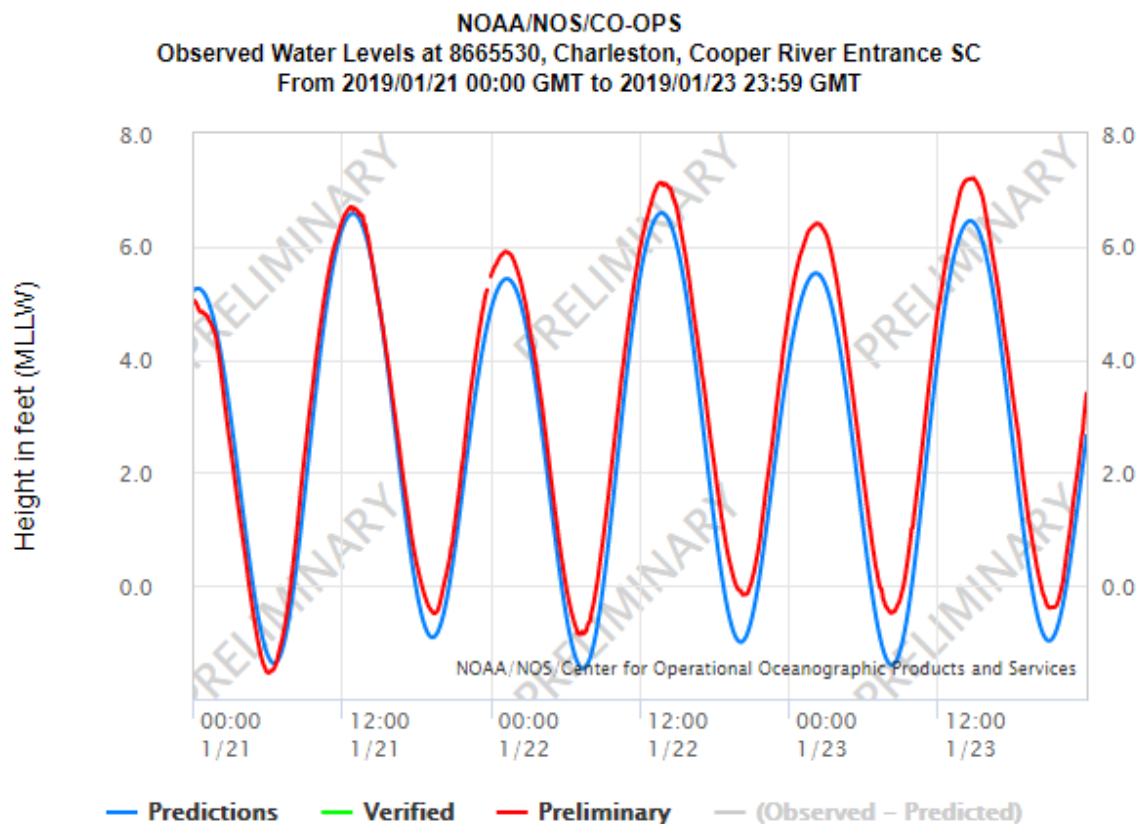
## 👑 Summary of January 2019 South Carolina King Tides

Highest Predicted Tide: 6.6' 📖

Highest Observed Tide: 7.2' 👁

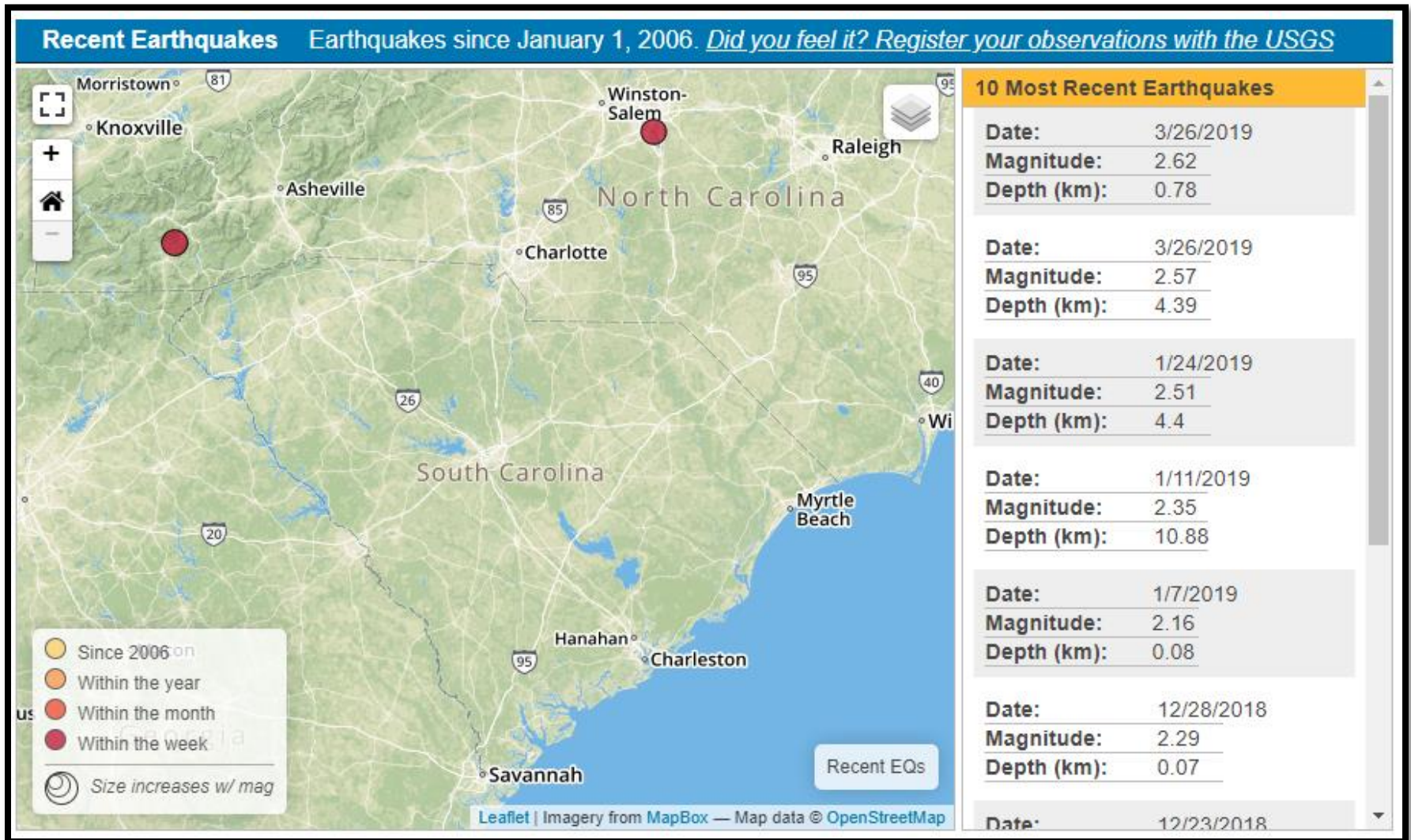
Predicted King Tides: 2 📖

Observed King Tides: 3 👁



# South Carolina Earthquakes within the Week

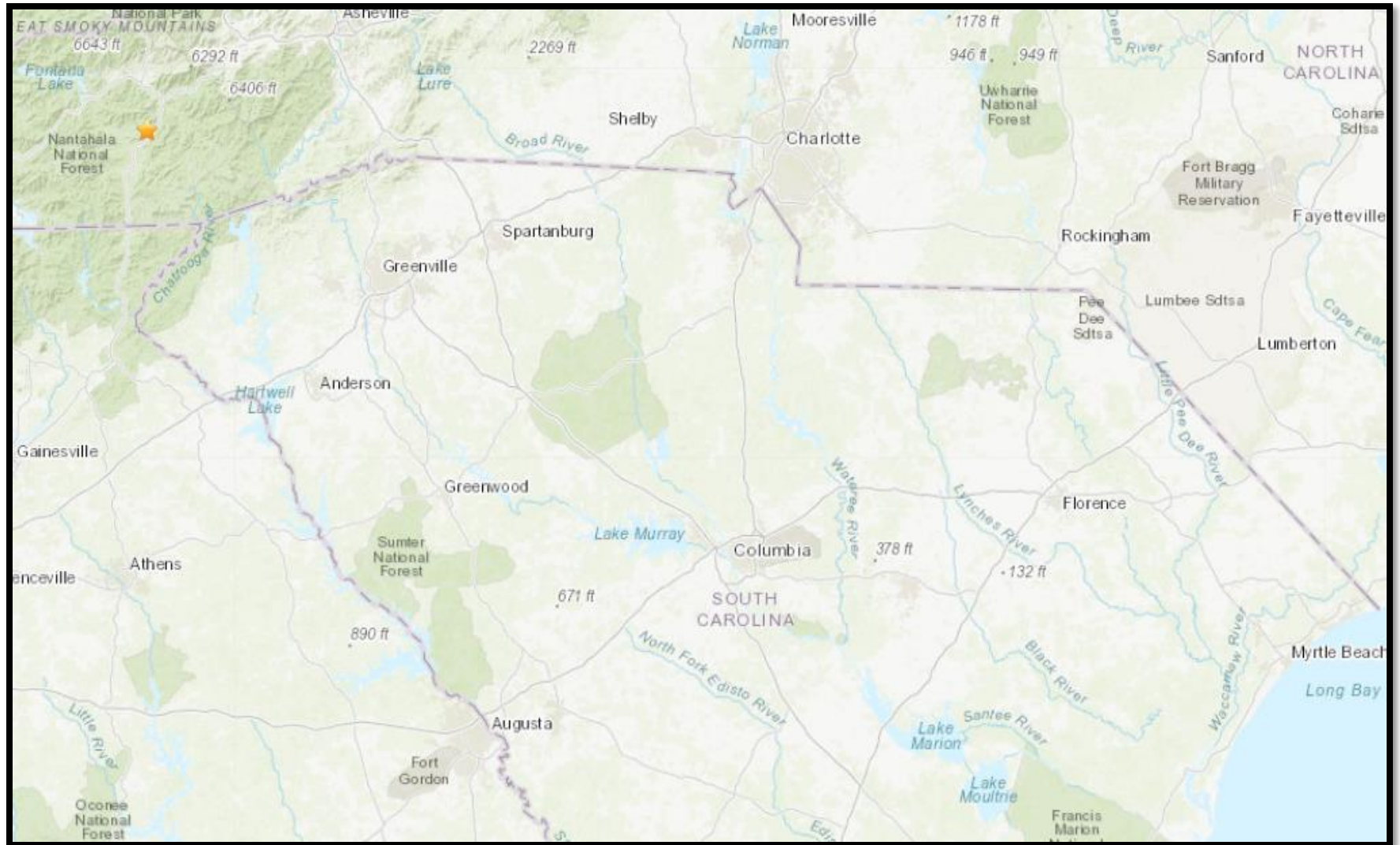
[www.dnr.sc.gov/geology/RecentEarthquakes.htm](http://www.dnr.sc.gov/geology/RecentEarthquakes.htm)





# M 2.6 11km NNE of Franklin, North Carolina

*March 26, 2019*



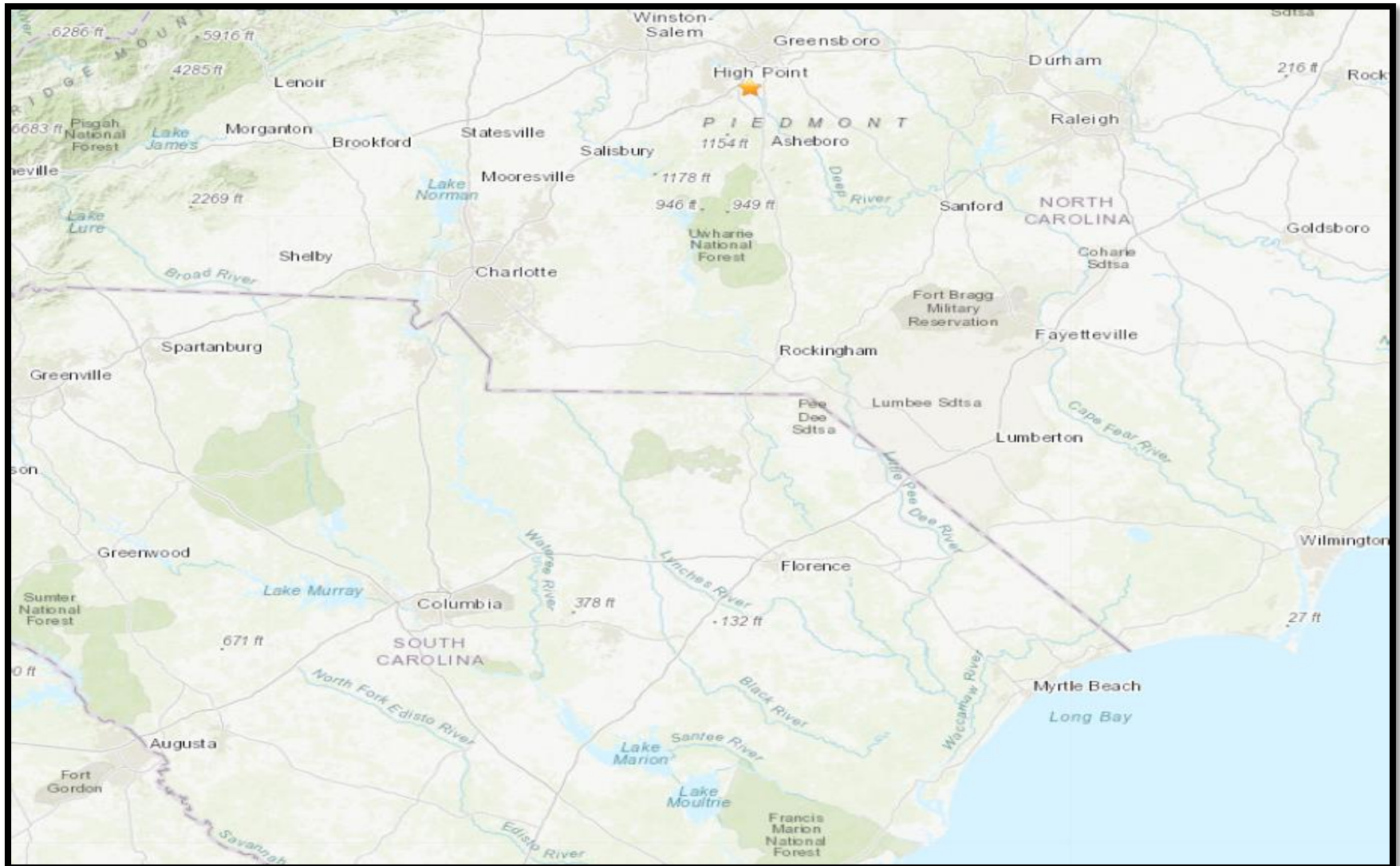
# M 2.6 11km NNE of Franklin, North Carolina

*March 26, 2019*

Details	Phases	Magnitudes
Magnitude uncertainty	2.62 md ± 0.1	
Location uncertainty	35.284°N 83.310°W ± 0.3 km	
Depth uncertainty	0.8 km ± 1.7	
Origin Time	2019-03-26 16:30:49.980 UTC	
Number of Stations	26	
Number of Phases	30	
Minimum Distance	27.6 km ( 0.25° )	
Travel Time Residual	0.21 s	
Azimuthal Gap	57°	
EE Region	Tennessee-North Carolina border region ()	
Review Status	REVIEWED	
Catalog	SE ( se60237487 )	
Location Source	SE <sup>1</sup>	
Magnitude Source	SE <sup>1</sup>	
Contributor	SE <sup>1</sup>	

# M 2.6 8km E of Archdale, North Carolina

*March 26, 2019*





# M 2.6 8km E of Archdale, North Carolina

*March 26, 2019*

Details	Phases	Magnitudes
Magnitude uncertainty	2.57 md ± 0.1	
Location uncertainty	35.929°N 79.875°W ± 0.4 km	
Depth uncertainty	4.4 km ± 7.5	
Origin Time	2019-03-26 04:32:30.720 UTC	
Number of Stations	18	
Number of Phases	19	
Minimum Distance	- ( - )	
Travel Time Residual	0.24 s	
Azimuthal Gap	78°	
EE Region	North Carolina (512)	
Review Status	REVIEWED	
Catalog	SE ( se60237442 )	
Location Source	SE <sup>1</sup>	
Magnitude Source	SE <sup>1</sup>	
Contributor	SE <sup>1</sup>	

# 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



## 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 (Parker et al., 1985; Ansel, 1980; Swindle, 1980)
- Prehistoric Liquefaction features (Johnson and others, 1987, 1988)

- 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, Center of Urban and Information Systems,  
Digital Mapping Services, 1996  
Cartography revised by South Carolina Geological Survey, 2008

## 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 analyses 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 response and recovery from a major earthquake disaster. It may be useful to particular planners and regulators as a general guide to regional earthquake hazard potential. However, this map should NOT be used for land use zoning, building code requirements, or defining insurance rate areas.



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

## 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 general 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 of various scales, maps showing locations of liquefaction 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, carbonate material (mostly sandy) confined 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 Charnock and others (1987, 1988), who reconstructed the area of predominantly marine sediments younger than about 240,000 years for pre-1886 period flows. Areas with liquefaction potential along rivers and streams were mapped from the configuration of floodplains on 7.5-minute topographic maps.

Liquefaction features shown on the map were transferred from maps prepared by Dr. Franklyn Taylor and his students at the University of South Carolina (Taylor and Cox, 1988; Ansel, 1980; and Schaeffer, 1980), and from Charnock and others (1987, 1988) of the U.S. Geological Survey. The liquefaction features from the 1886 Charleston earthquake were transferred from Castle Swamp map presented to Cullen (1988, plate 20). Areas with collapse potential were mapped on the presence of sand features (sand blows, sand boils, sand dunes, etc.) and, 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%), gorges and flood, carbonate materials. The carbonate materials include thick and thin units that mostly consist of sand with sparse clay beds. Areas with landslide potential were mapped from examination of 1:24,000 scale 7.5-minute topographic maps. However, earthquake shaking could trigger these conditions and create problems. In specific areas.

## REFERENCES

- Ansel, J.C., 1980. Interpretation of topographic maps using the method of sand blows to delineate liquefaction features in the coastal zone of South Carolina. Ph.D. dissertation, University of South Carolina, 254p.
- Cullen, J.C., 1988. The Charleston earthquake of August 31, 1886. U.S. Geological Survey, Miscellaneous Publication, 1987-88, p. 201-228.
- Charnock, S.P., Johnston, W.B., Smith, J.P., Wilson, R.D., Smith, R.B., Moore, J.E., and Parker, D.D., 1987. Earthquake-induced liquefaction features in the coastal zone of South Carolina and the flood plain of the New York State Canal. U.S. Geological Survey Professional Paper 1082, 162p.
- Charnock, S.P., Wilson, R.D., and Johnston, W.B., 1987. Earthquake-induced liquefaction features in the coastal zone of South Carolina. U.S. Geological Survey Open-File Report 87-1, 71p.
- Knapik, W.T., 1988. Prehistoric liquefaction features in the Charleston, South Carolina, area. M.S. Thesis, University of South Carolina.
- Taylor, F. and Cox, J., 1988. Preliminary studies for evaluation of earthquake risk Charleston, South Carolina. Summary, p. 228, p. 275-287.

## ACKNOWLEDGEMENTS

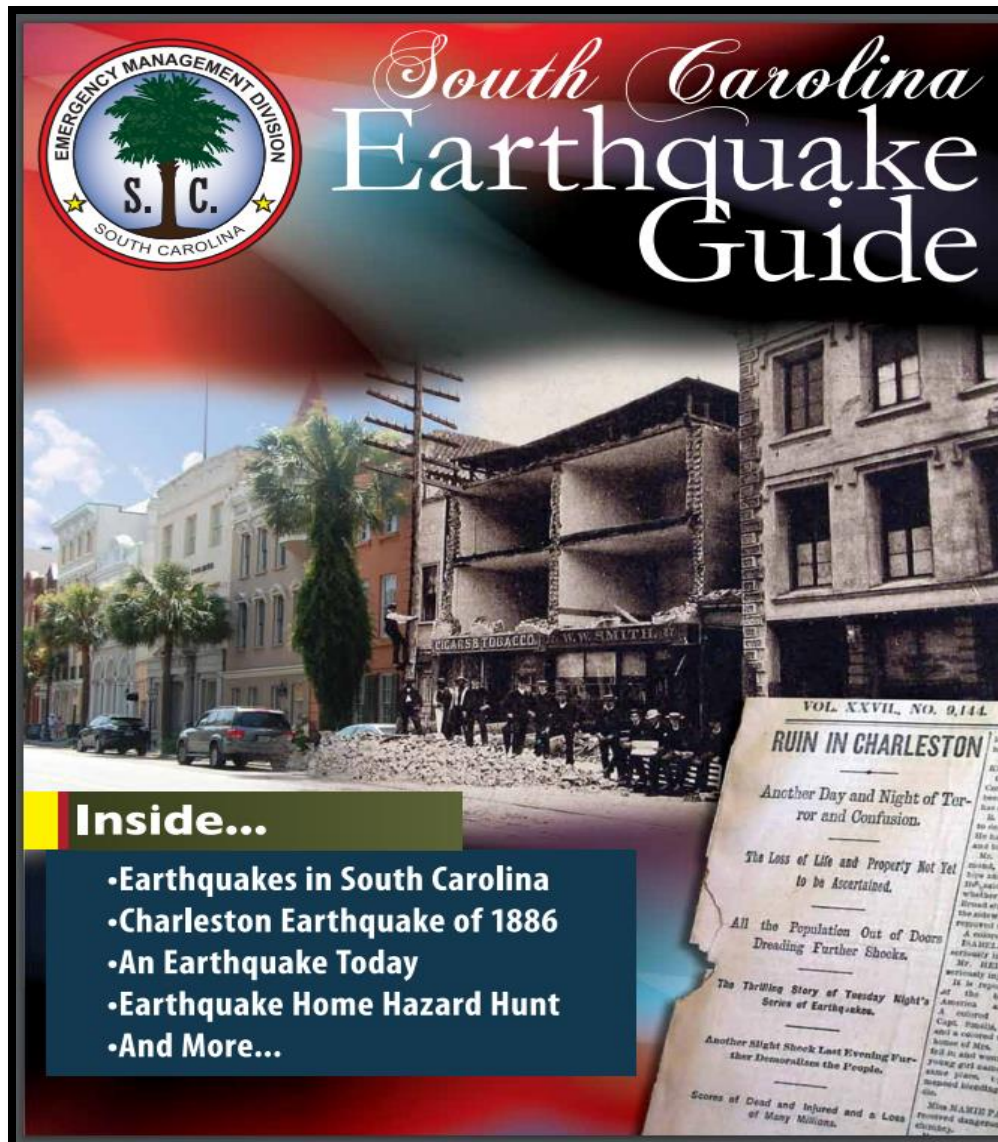
Thanks to the University of South Carolina for providing the data and maps used in the preparation of this map. The map was prepared under a grant from the Federal Emergency Management Agency, National Earthquake Hazard Reduction Program, and the South Carolina Emergency Preparedness Division.

David Hoffman, of the Missouri Department of Natural Resources, assisted with the compilation of the map. The map was compiled from various sources. The map of the Charleston earthquake was compiled from various sources. The map of the Charleston earthquake was compiled from various sources.

Special thanks to the staff of the South Carolina Geological Survey, who assisted with the compilation of the map. The map was prepared under a grant from the Federal Emergency Management Agency, National Earthquake Hazard Reduction Program, and the South Carolina Emergency Preparedness Division.



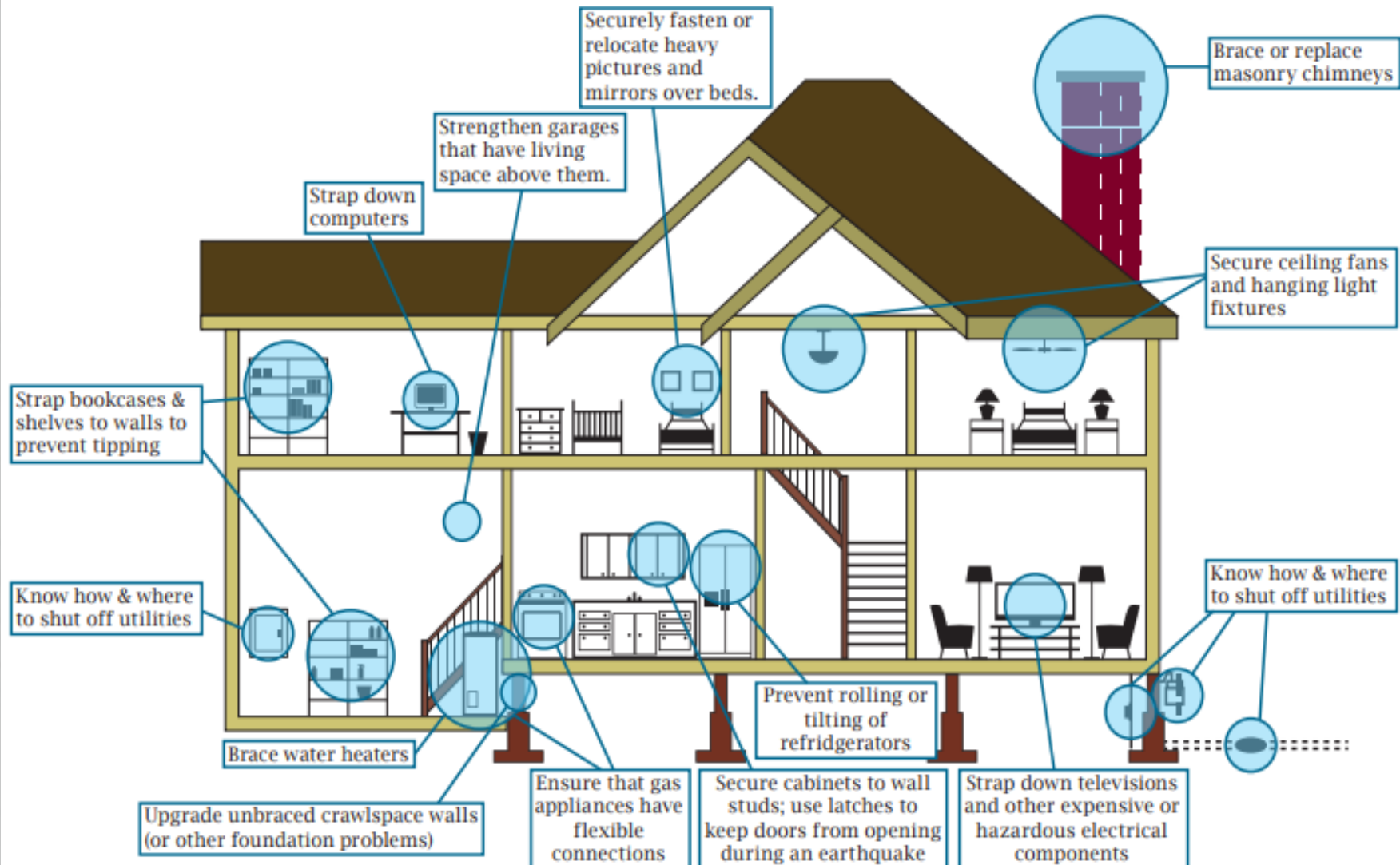
<http://scearthquakes.cofc.edu/pdf/EQGuide2012.pdf>





# Earthquake Home Hazard Hunt

Recommendations for reducing earthquake hazards in your home.

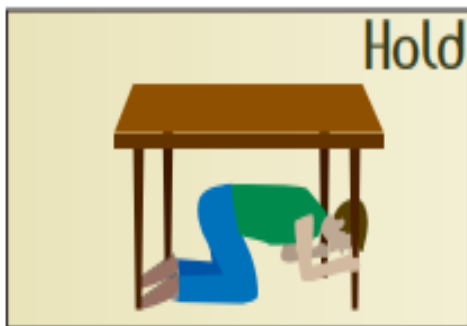
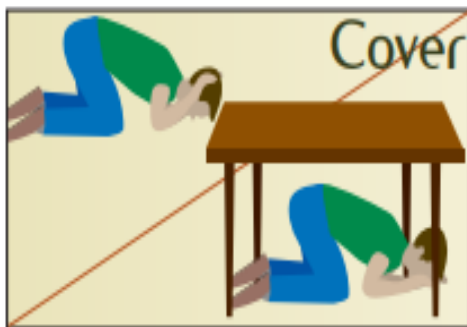


# When the Ground Moves



**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.

# **SMART 911**

## **Now Active in Beaufort County**

Smart-911 is 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.



# Be Smart About Safety

No one plans to call 9-1-1,  
but now you can plan ahead.

*Sign Up Now – It's Free ▶*

## Sign Up Today

Be smart about safety. It's free,  
private and secure.

**SIGN UP**

[Is Smart911 available in my area?](#)

## Have an Account?

Sign in here.

**SIGN IN**

Forget User ID or Password?

[Retrieve Your User ID or Password  
Now](#)

### National Safety Month

Four weeks of safety measures you can  
take this June.  
[Learn More ▶](#)



### City of Rockwall Police Enhance 9-1-1 Services wit...

[More Info ▶](#)



### "Smart911" Service Enhances Safety in Forrest Coun...

[More Info ▶](#)

## Check Out Our New App!

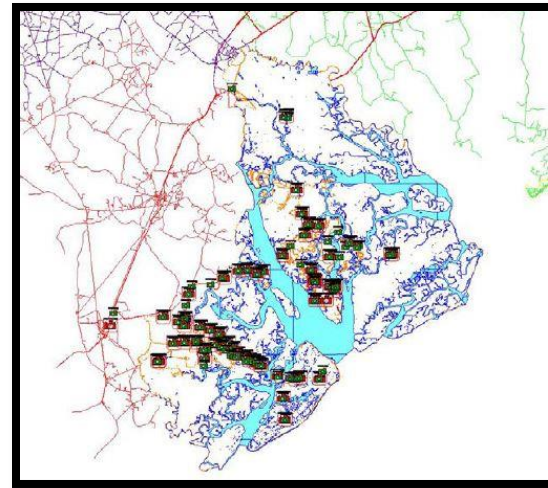


The Beaufort County Sheriff's Office Emergency Management Division has just released its very own app. This app allows you to make and update your plan for emergencies, provides you with information for hazardous weather, what to pack in case of an emergency and so much more! Within the app, is an EvacMap & Shelters icon that will show you where the Hospitals, Fire Stations, EMS Stations, Law Enforcement Stations and even Emergency Shelters are located. This map also allows you to see the storm surge zones for Beaufort County and most importantly, the evacuation routes to follow in case of an evacuation.

**Download it today for FREE in the Apple App  
Store for iPhone and Android Users**

# Beaufort County Emergency Management App

- A live view of all traffic cameras in Beaufort County are now available and can be viewed on the Emergency Management App.
- These cameras can be selected from the layer menu located in the top left corner.







if you  
**SEE**  
something  
**SAY**  
something™

**REPORT SUSPICIOUS  
ACTIVITY** to local authorities.

Call **877-OHS-INTEL** (877-647-4683)



# 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.

Follow us on Twitter for up to the minute Traffic and Weather Info!  
<https://twitter.com/bcsotraffic>