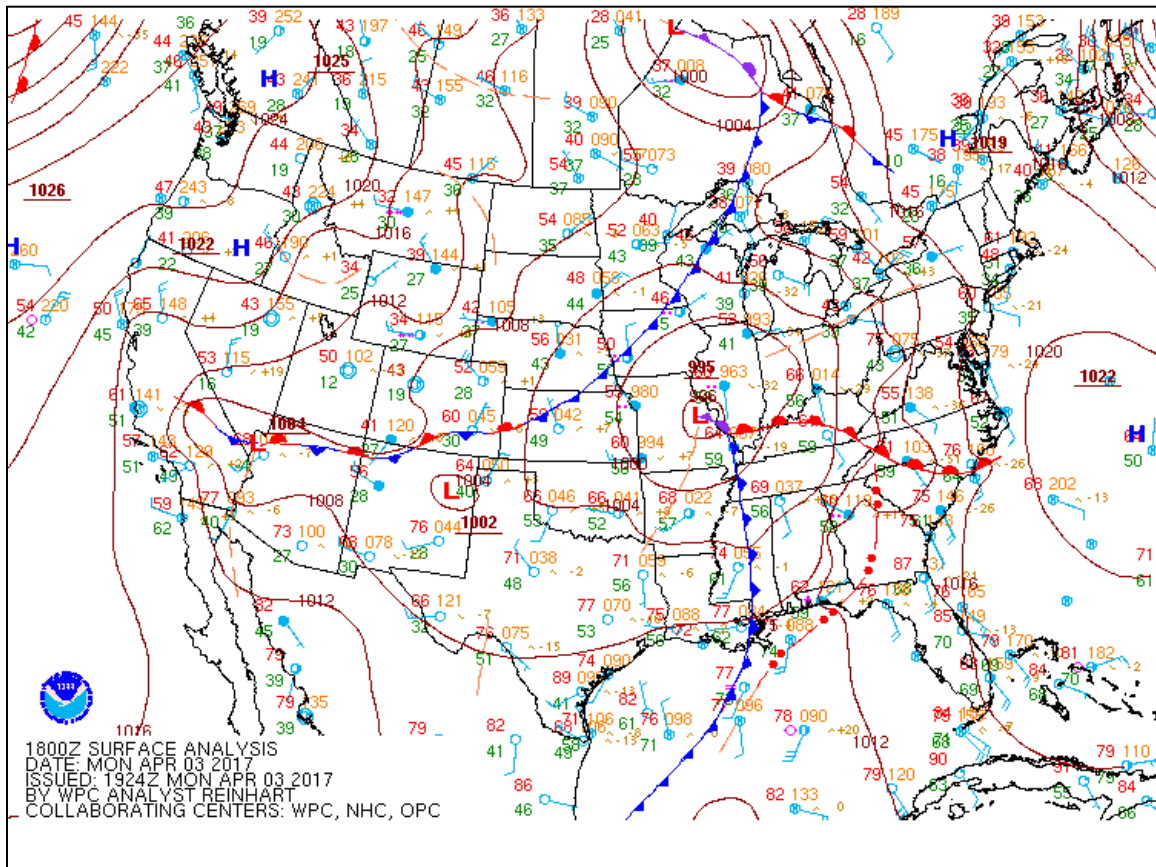
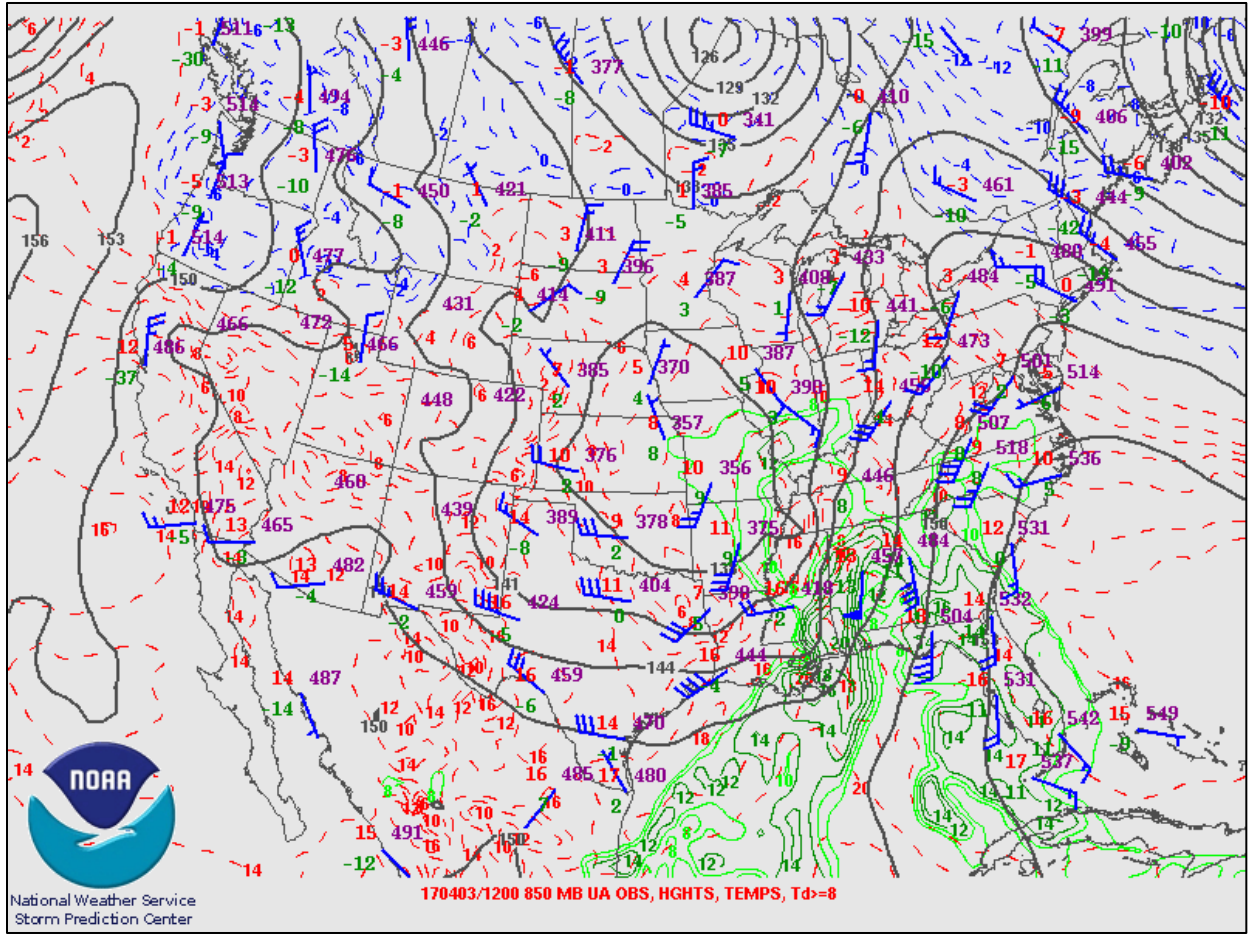


April 3, 2017, Severe Weather Event

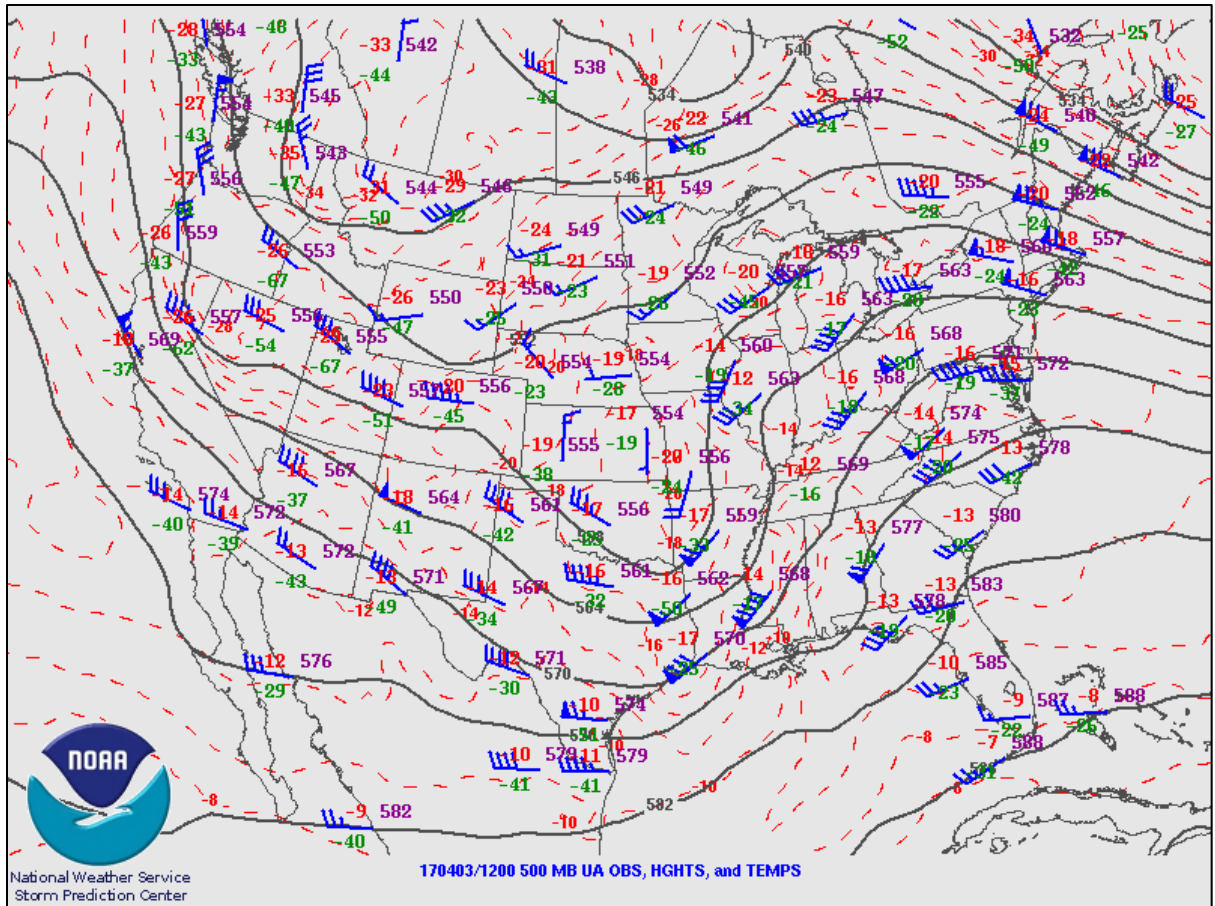
A warm front lifted north over the area early in the day, establishing a warm sector and increasing instability over much of the Southeast United States, well ahead of a cold front approaching from the west. Aloft, a longwave mid/upper level trough of low pressure over the Central United States became negatively tilted while tracking east. As this occurred, an embedded 500 shortwave rounded the southern periphery of the longwave trough, shifting over the Southeast Monday afternoon. The combination of instability advecting north into the area, strong tropospheric winds and shear and forcing for ascent produced by the approaching 500 mb shortwave and entrance region of an upper level jet helped produce an environment capable of damaging straight-line winds, large hail and isolated tornadoes. Indeed, organized severe thunderstorms crossed the region Monday afternoon into early Monday evening, producing numerous reports of severe weather and an EF-0 tornado in Hampton County SC.



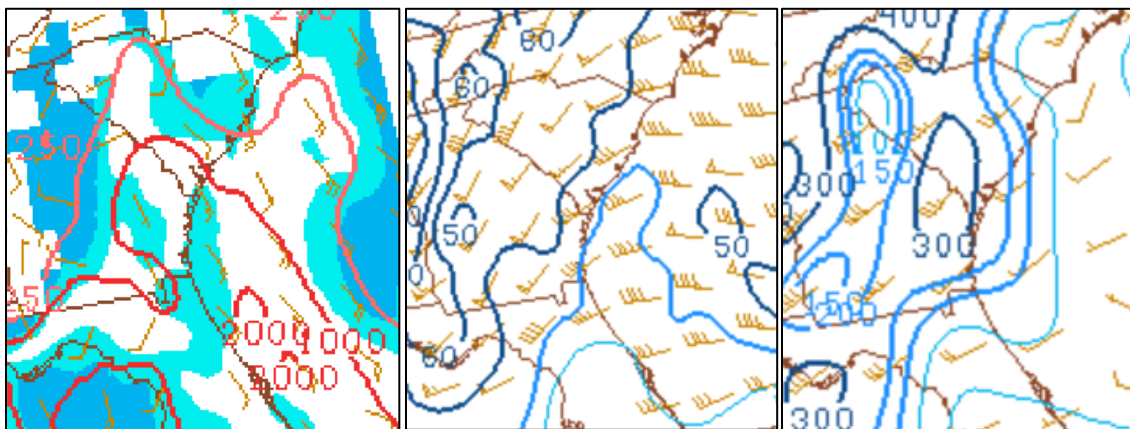
The WPC surface analysis for 18Z (2 pm EDT) depicting a warm front lifting north of the region. Organized thunderstorms had developed within the warm sector and were approaching the region from the west. .



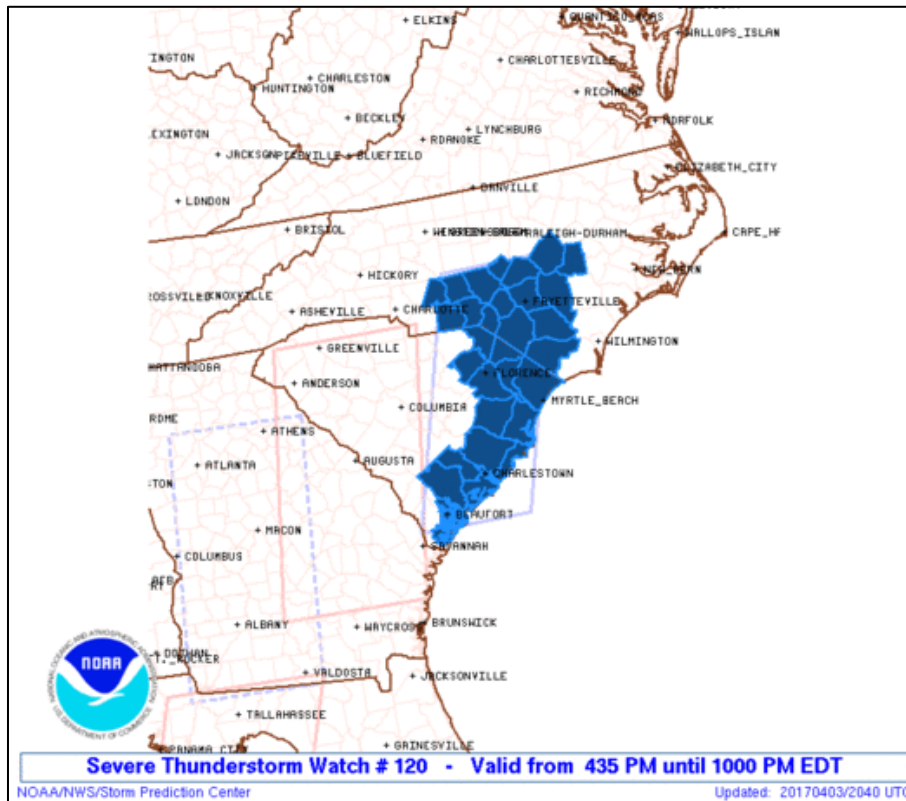
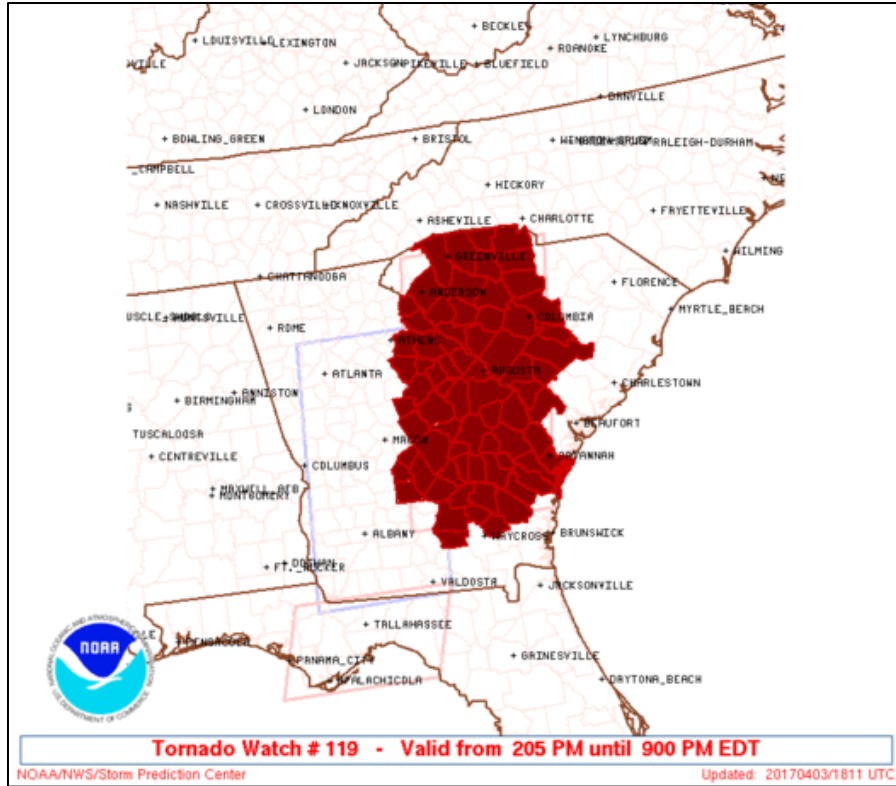
Monday morning 850 mb observations and analysis depicting deep low pressure pulling moisture into the Southeast.



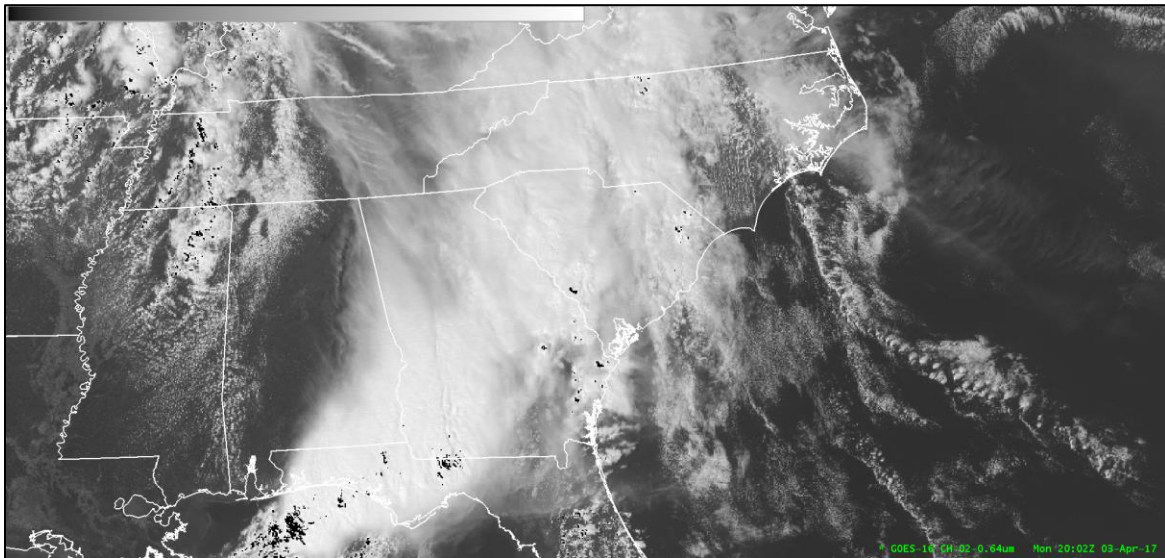
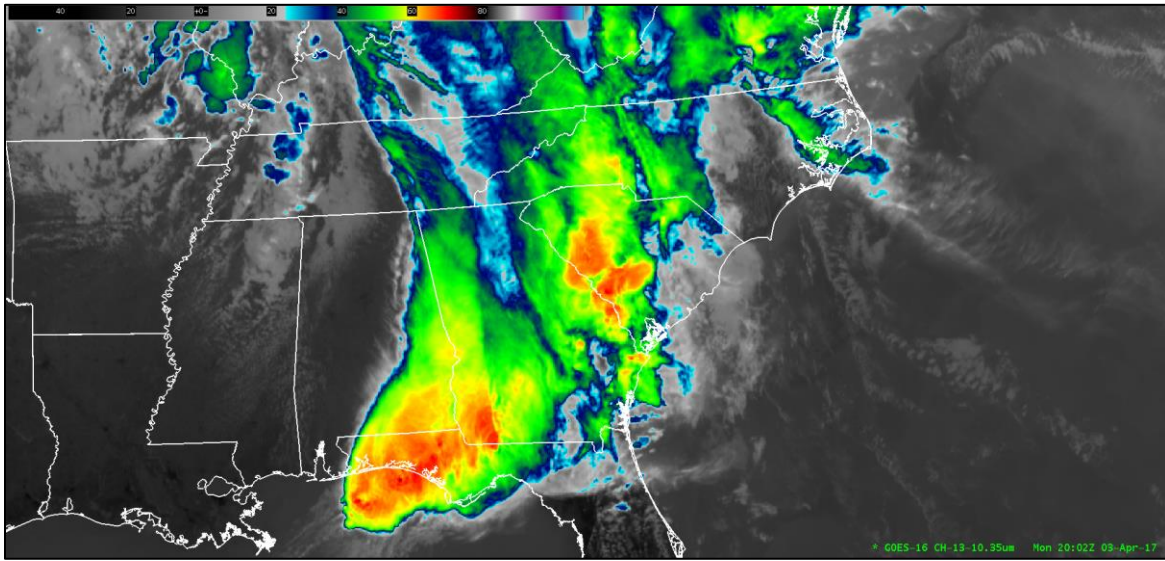
Monday morning 500 mb observations and analysis depicting the deep upper trough advancing into the lower Mississippi River Valley and strengthening winds over the Southeast U.S.



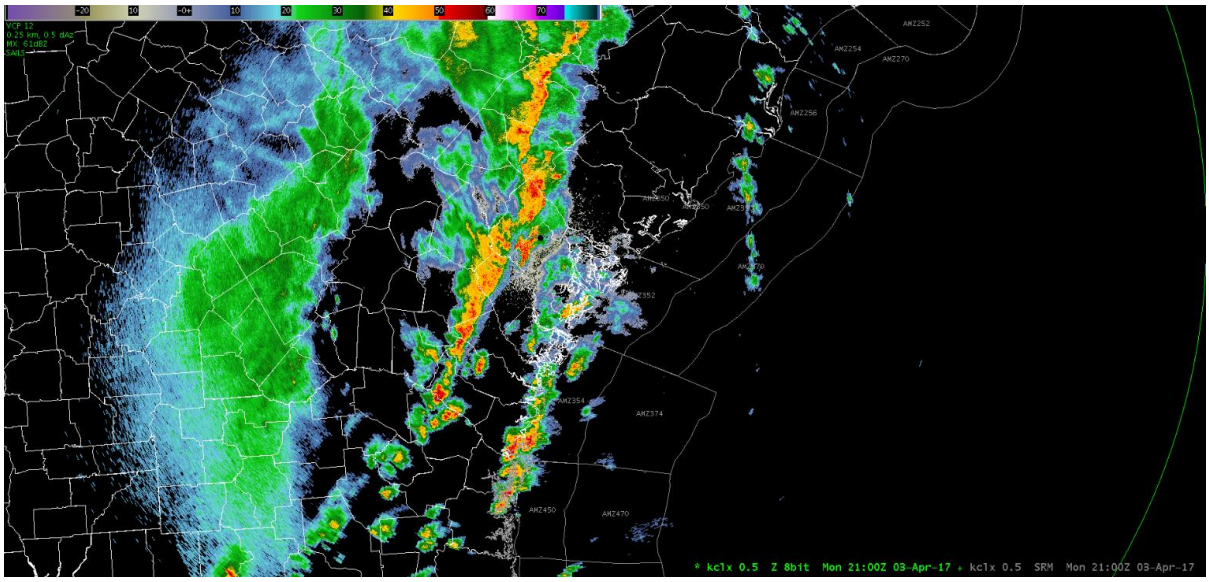
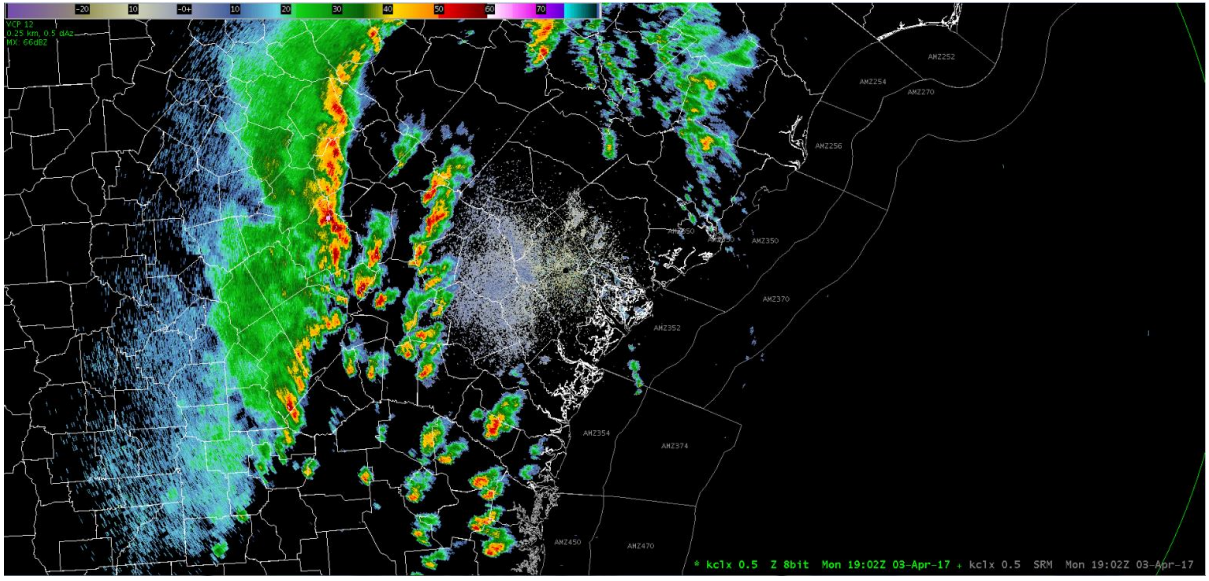
20Z (4 pm EDT) Storm Prediction Center Mesoanalysis depicting sufficient instability (left panel), shear (middle panel) and low-level helicity (right panel) to support organized severe thunderstorms, including supercells.



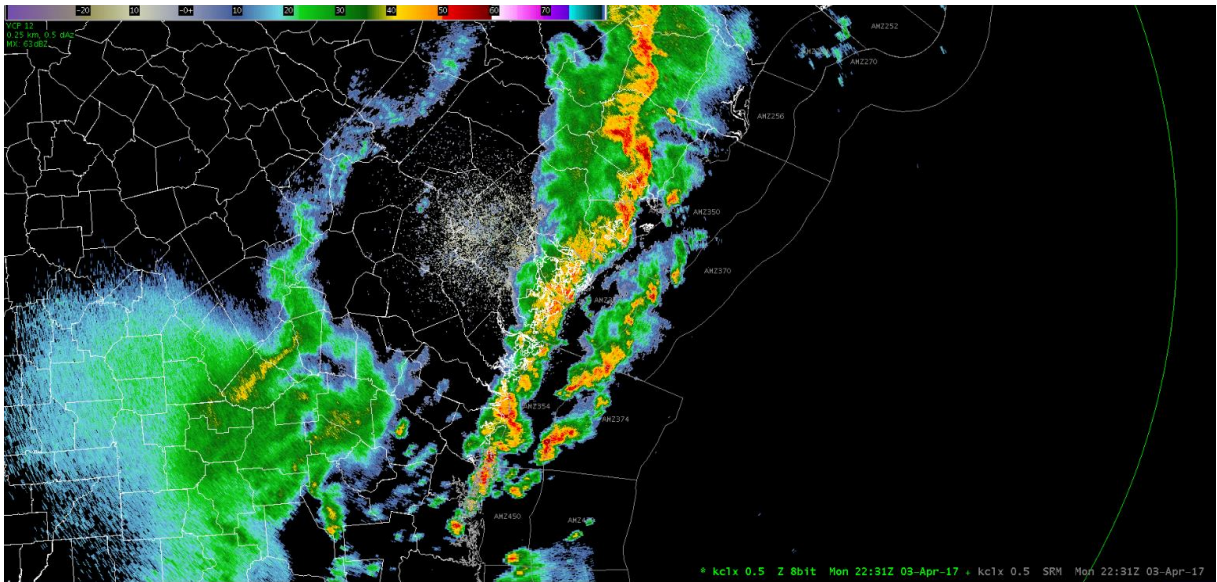
Tornado and Severe Thunderstorm Watches issued April 3.



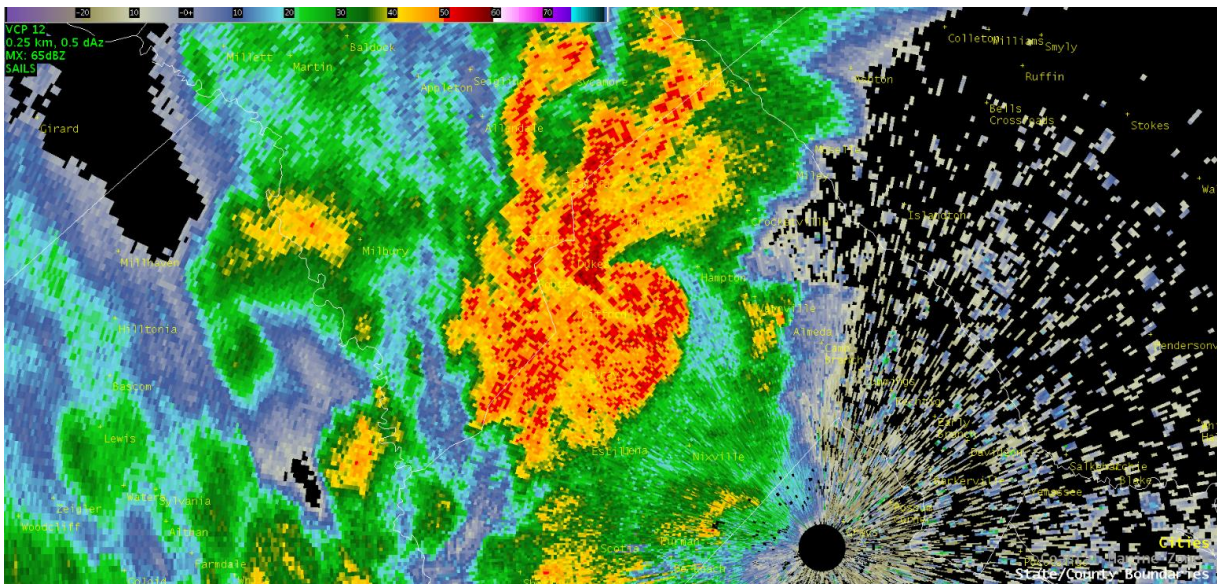
Experimental GOES-16 infrared and visible satellite imagery taken about 4 pm EDT.



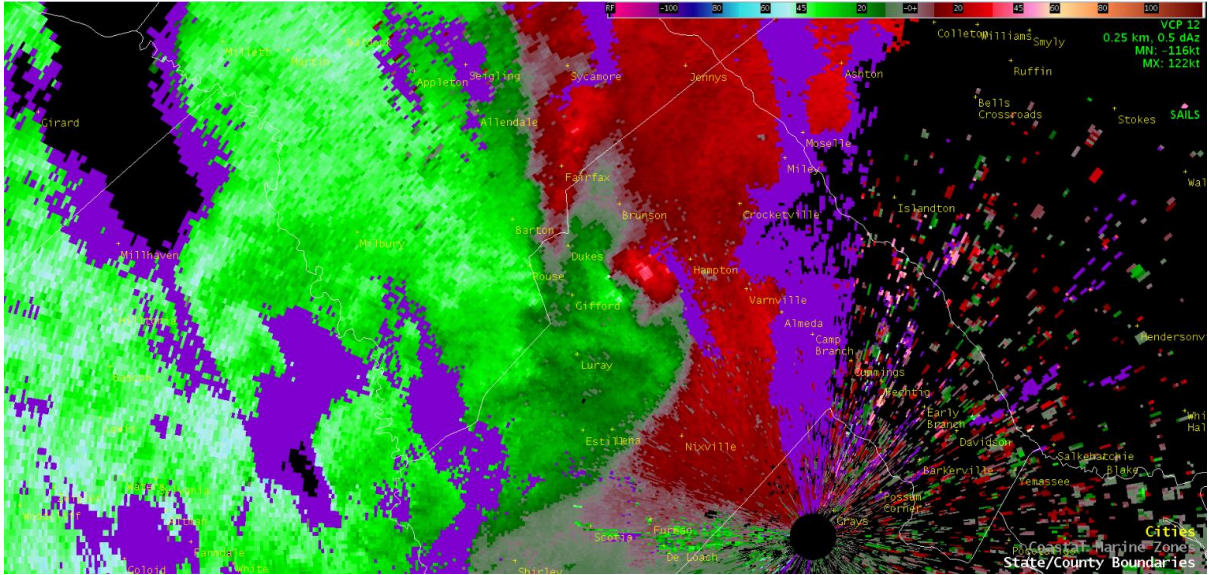
Radar base reflectivity depicting thunderstorms spreading into western counties of the forecast area around 3 pm and advancing well into the forecast area around 5 pm EDT.



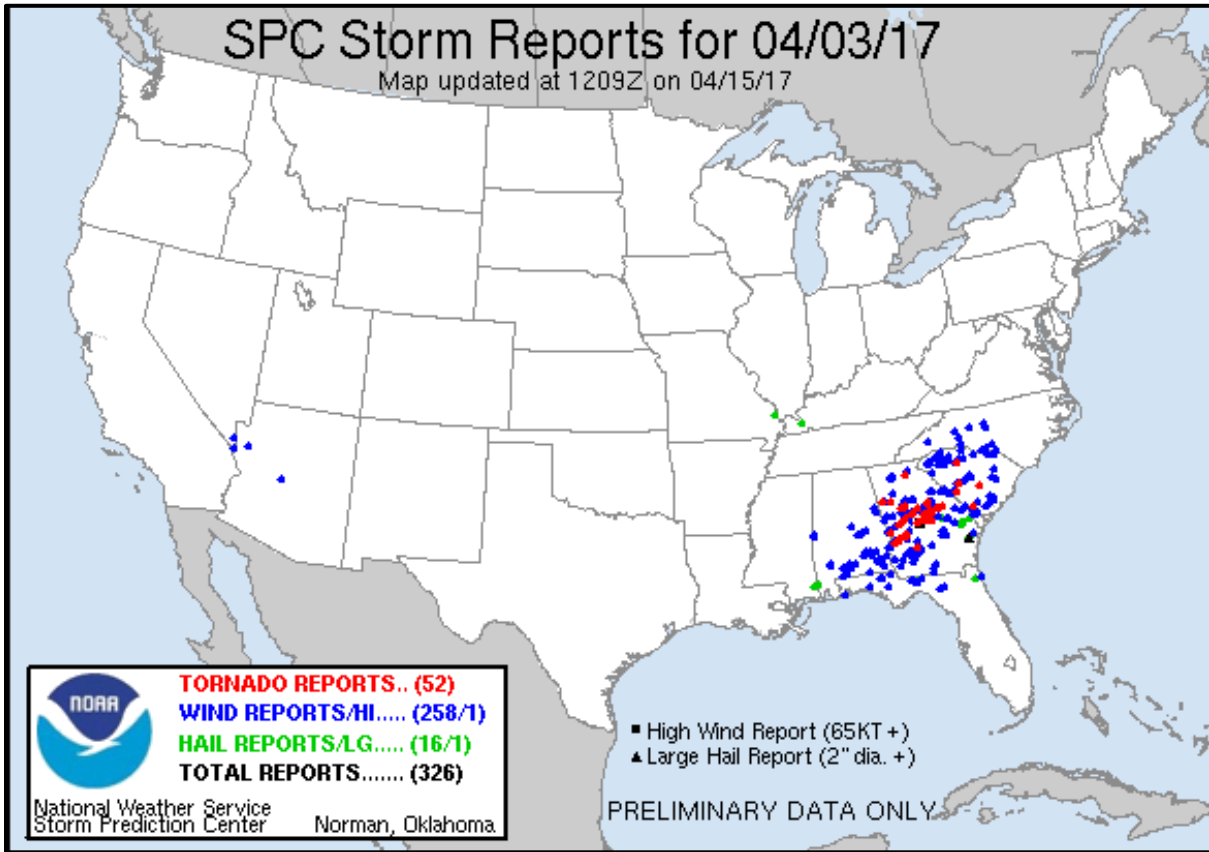
Radar base reflectivity imagery depicting thunderstorms along the coast and over adjacent Atlantic waters about 630 pm EDT.



Radar base reflectivity depicting the Hampton County EF-0 tornado at the time of the 443 pm EDT touchdown.



Radar storm relative velocity depicting the rotation associated with the Hampton County EF-0 tornado at the time of the 443 pm EDT touchdown.



SPC map of severe weather reports for April 3, 2017.

PRELIMINARY LOCAL STORM REPORT...SUMMARY
NATIONAL WEATHER SERVICE CHARLESTON SC
1137 PM EDT MON APR 03 2017

..TIME... ..EVENT... ..CITY LOCATION... ..LAT.LON...
..DATE... ..MAG.... ..COUNTY LOCATION..ST.. ..SOURCE....
..REMARKS..

0319 PM HAIL 2 SSE ALLENHURST 31.76N 81.59W
04/03/2017 E0.70 INCH LIBERTY GA 911 CALL CENTER

LIBERTY COUNTY DISPATCH RELAYED A REPORT OF DIME SIZED
HAIL BETWEEN WALTHOURVILLE AND RICEBORO FROM AN EMS
UNIT.

0331 PM HAIL 1 SW MCINTOSH 31.81N 81.54W
04/03/2017 M2.00 INCH LIBERTY GA TRAINED SPOTTER

A TRAINED SPOTTER RELAYED A PICTURE OF 2 HAIL STONES
RANGING FROM 1 TO 2 INCHES IN DIAMETER. THE PICTURE WAS
FROM EVERSON LANE IN MIDWAY.

0335 PM HAIL MCINTOSH 31.82N 81.52W
04/03/2017 E0.88 INCH LIBERTY GA TRAINED SPOTTER

A SPOTTER REPORTED NICKEL SIZE HAIL NEAR THE
INTERSECTION OF HIGHWAY 84 AND HIGHWAY 196.

0338 PM HAIL 1 WSW MIDWAY 31.80N 81.44W
04/03/2017 E0.88 INCH LIBERTY GA TRAINED SPOTTER

A SPOTTER REPORTED NICKEL SIZE HAIL NEAR MIDWAY
GEORGIA.

0338 PM HAIL 5 SE REGISTER 32.32N 81.83W
04/03/2017 E1.25 INCH BULLOCH GA BROADCAST MEDIA

LOCAL MEDIA RELAYED A VIEWER REPORT OF HAIL THE SIZE OF
QUARTES OR SLIGHTLY LARGER NEAR REGISTER.

0343 PM HAIL 5 ESE REGISTER 32.33N 81.81W
04/03/2017 E1.00 INCH BULLOCH GA 911 CALL CENTER

BULLOCH COUNTY 911 REPORTED QUARTER SIZED HAIL NEAR THE
INTERSECTION OF HIGHWAY 46 AND SINKHOLE ROAD.

0347 PM HAIL 4 N MIDWAY 31.86N 81.43W
04/03/2017 E1.00 INCH LIBERTY GA TRAINED SPOTTER

A TRAINED SPOTTER REPORTS QUARTER SIZED HAIL CURRENTLY
FALLING ON FREEDMAN GROVE ROAD.

0352 PM HAIL 2 SE GEORGIA SOUTHERN 32.39N 81.76W
04/03/2017 E1.00 INCH BULLOCH GA SOCIAL MEDIA

SOCIAL MEDIA PICTURE SHOWED A HANDFUL OF QUARTER-SIZED
HAIL STONES.

0359 PM HAIL 2 WSW RICHMOND HILL 31.92N 81.34W
04/03/2017 E0.88 INCH BRYAN GA TRAINED SPOTTER

A TRAINED SPOTTER RELAYED A REPORT OF DIME TO NICKEL
SIZED HAIL FROM THE 4900 BLOCK OF HIGHWAY 17.

0401 PM TSTM WND DMG PERKINS 32.91N 81.95W
04/03/2017 JENKINS GA 911 CALL CENTER

THE JENKINS COUNTY WARNING POINT REPORTED 4 TREES DOWN
NEAR PERKINS GEORGIA.

0403 PM HAIL 1 SW RICHMOND HILL 31.93N 81.31W
04/03/2017 E1.00 INCH BRYAN GA TRAINED SPOTTER

A SPOTTER REPORTED QUARTER SIZE HAIL NEAR RICHMOND HILL
GEORGIA.

0403 PM TSTM WND GST 1 SW RICHMOND HILL 31.93N 81.31W
04/03/2017 E60 MPH BRYAN GA TRAINED SPOTTER

A SPOTTER REPORTED 60 MPH WIND GUSTS WITH A PASSING
THUNDERSTORM.

0409 PM TSTM WND DMG METTER 32.40N 82.06W
04/03/2017 CANDLER GA 911 CALL CENTER

CANDLER COUNTY DISPATCH REPORTED A TREE DOWN IN METTER
ON WASHINGTON STREET NEAR BAY STREET.

0415 PM TSTM WND GST PLANTATION PARK 32.65N 81.59W
04/03/2017 M47 MPH SCREVEN GA AWOS

THE AWOS SITE KJYL MEASURED A 41 KNOT WIND GUST.

0416 PM TSTM WND DMG 5 NW SYLVANIA 32.81N 81.69W
04/03/2017 SCREVEN GA 911 CALL CENTER

SCREVEN COUNTY 911 REPORTED A TREE DOWN NEAR THE
INTERSECTION OF BUTTERMILK ROAD AND PARKER ROAD.

0419 PM TSTM WND DMG 4 E HILLTONIA 32.89N 81.59W
04/03/2017 SCREVEN GA 911 CALL CENTER

SCREVEN COUNTY 911 REPORTED A TREE DOWN NEAR THE
INTERSECTION OF PLANTATION ROAD AND HIGHWAY 301.

0423 PM TSTM WND DMG 1 W BURTONS FERRY LANDI 32.94N 81.53W
04/03/2017 SCREVEN GA 911 CALL CENTER

SCREVEN COUNTY 911 REPORTED A TREE DOWN NEAR THE
INTERSECTION OF OGLETHORPE TRAIL AND HIGHWAY 301.

0430 PM HAIL SHAWNEE 32.48N 81.41W
04/03/2017 E0.70 INCH EFFINGHAM GA 911 CALL CENTER

THE EFFINGHAM COUNTY WARNING POINT REPORTED DIME SIZE
HAIL NEAR SHAWNEE.

0435 PM TSTM WND GST CLAXTON EVANS COUNTY AI 32.19N 81.87W
04/03/2017 M46 MPH EVANS GA AWOS

THE AWOS SITE KCWV MEASURED A 40 KNOT WIND GUST.

0437 PM TSTM WND DMG LURAY 32.81N 81.24W
04/03/2017 HAMPTON SC 911 CALL CENTER

THE HAMPTON COUNTY WARNING POINT REPORTED A TREE DOWN
ON HIGHWAY 321.

0438 PM TSTM WND DMG 1 NNE LURAY 32.82N 81.24W
04/03/2017 HAMPTON SC 911 CALL CENTER

THE HAMPTON COUNTY WARNING POINT REPORTED A TREE DOWN
ON HIGHWAY 363.

0442 PM TSTM WND DMG 1 NW LAKE WARREN STATE 32.85N 81.18W
04/03/2017 HAMPTON SC 911 CALL CENTER

THE HAMPTON COUNTY WARNING POINT REPORTED A TREE DOWN
THOMAS HAMILTON ROAD.

0443 PM TSTM WND DMG* 2 SSE LAKE WARREN STATE 32.82N 81.16W
04/03/2017 HAMPTON SC FIRE DEPT/RESCUE

HAMPTON FIRE AND RESCUE REPORTED TREES DOWN BLOCKING
THE ROAD IN THE 2600 BLOCK OF HOPE WELL ROAD.

0443 PM TSTM WND DMG* 1 NNW LAKE WARREN STATE 32.85N 81.18W
04/03/2017 HAMPTON SC EMERGENCY MNGR

HAMPTON COUNTY EMERGENCY MANAGER REPORTED AROUND TWENTY
TREES DOWN ON THOMAS HAMILTON ROAD.

0446 PM TSTM WND DMG HAMPTON 32.88N 81.13W
04/03/2017 HAMPTON SC 911 CALL CENTER

THE HAMPTON COUNTY WARNING POINT REPORTED A TREE DOWN
NEAR HAMPTON SOUTH CAROLINA.

0458 PM TSTM WND DMG PINELAND 32.61N 81.16W
04/03/2017 JASPER SC LAW ENFORCEMENT

SOUTH CAROLINA HIGHWAY PATROL REPORTED A TREE DOWN ON
GILLISON BRANCH ROAD NEAR CYPRESS BRANCH ROAD.

0506 PM TSTM WND DMG PINELAND 32.60N 81.16W
04/03/2017 JASPER SC LAW ENFORCEMENT

SOUTH CAROLINA HIGHWAY PATROL REPORTED A TREE DOWN ON CALF PEN BAY ROAD NEAR PINELAND.

0508 PM TSTM WND DMG 3 ESE ASHTON 32.99N 80.93W
04/03/2017 COLLETON SC LAW ENFORCEMENT

SOUTH CAROLINA HIGHWAY PATROL REPORTED A TREE DOWN ON CAYCE ROAD NEAR WILLOW SWAMP ROAD.

0515 PM TSTM WND DMG 1 SE GILLISONVILLE 32.60N 80.99W
04/03/2017 JASPER SC LAW ENFORCEMENT

SOUTH CAROLINA HIGHWAY PATROL REPORTED A TREE DOWN ON GRAYS HIGHWAY NEAR THE INTERSECTION WITH MORGANDOLLAR ROAD.

0515 PM MARINE TSTM WIND 5 SE VALONA 31.42N 81.29W
04/03/2017 M41 MPH MCINTOSH GA OFFICIAL NWS OBS

THE NERRS SITE AT SAPELO ISLAND MEASURED A 36 KNOT WIND GUST WITH A PASSING THUNDERSTORM.

0539 PM TSTM WND DMG RITTER 32.79N 80.63W
04/03/2017 COLLETON SC LAW ENFORCEMENT

SOUTH CAROLINA HIGHWAY PATROL REPORTED A TREE DOWN IN THE 7500 BLOCK OF GREEN POND HIGHWAY.

0542 PM TSTM WND DMG 4 NE RITTER 32.83N 80.59W
04/03/2017 COLLETON SC LAW ENFORCEMENT

SOUTH CAROLINA HIGHWAY PATROL REPORTED A TREE DOWN ON CHARLESTON HIGHWAY NEAR BONNIE DOONE ROAD.

0549 PM TSTM WND DMG 6 S COTTAGEVILLE 32.85N 80.49W
04/03/2017 COLLETON SC LAW ENFORCEMENT

SOUTH CAROLINA HIGHWAY PATROL REPORTED A TREE DOWN ON DODGE LANE NEAR JACKSONBORO ROAD.

0550 PM TSTM WND DMG 4 S COTTAGEVILLE 32.87N 80.49W
04/03/2017 COLLETON SC LAW ENFORCEMENT

SOUTH CAROLINA HIGHWAY PATROL REPORTED A TREE DOWN ON JACKSONBORO HIGHWAY NEAR ROUND O ROAD.

0600 PM TSTM WND DMG 5 S GIVHANS 32.94N 80.35W
04/03/2017 DORCHESTER SC LAW ENFORCEMENT

SOUTH CAROLINA HIGHWAY PATROL REPORTED A TREE DOWN ON HIGHWAY17 BETWEEN SANDPIT DRIVE AND CLUBHOUSE ROAD.

0607 PM TSTM WND DMG 1 NNE SLANDS BRIDGE 32.99N 80.25W
04/03/2017 DORCHESTER SC LAW ENFORCEMENT

SOUTH CAROLINA HIGHWAY PATROL REPORTED A TREE DOWN ON WHIPPOORWILL DRIVE NEAR CENTRAL AVENUE.

0609 PM TSTM WND DMG 2 ENE SLANDS BRIDGE 32.98N 80.21W
04/03/2017 DORCHESTER SC LAW ENFORCEMENT

SOUTH CAROLINA HIGHWAY PATROL REPORTED A TREE DOWN ON ORANGEBURG ROAD NEAR THE DORCHESTER COUNTY DEPARTMENT OF SOCIAL SERVICES BUILDING.

0612 PM TSTM WND DMG 1 SW SUMMERVILLE 33.01N 80.19W
04/03/2017 DORCHESTER SC SOCIAL MEDIA

A SOCIAL MEDIA REPORT OF A TREE DOWN BLOCKING BOONEHILL ROAD NEAR TEA FARM ROAD.

0616 PM TSTM WND DMG 1 WSW SANGAREE 33.03N 80.14W
04/03/2017 BERKELEY SC FIRE DEPT/RESCUE

THE CANDB FIRE DEPARTMENT REPORTED SEVERAL TREES SNAPPED OR UPROOTED ALONG FARMINGTON ROAD NEAR I-26.

0623 PM MARINE TSTM WIND 1 SSW TYBEE ISLAND 31.99N 80.85W
04/03/2017 M41 MPH CHATHAM GA MESONET

THE WEATHERFLOW SITE ON SOUTH TYBEE ISLAND MEASURED A 36 KNOT WIND GUST WITH A PASSING THUNDERSTORM. THE PEAK GUST OF 37 KNOTS OCCURRED 10 MINUTES LATER.

0626 PM MARINE TSTM WIND 22 ESE RACCOON BLUFF 31.40N 80.87W
04/03/2017 M45 MPH AMZ354 GA BUOY

BUOY 41008 MEASURED A 39 KNOT WIND GUST WITH A PASSING THUNDERSTORM.

0630 PM MARINE TSTM WIND 5 SE VALONA 31.42N 81.29W
04/03/2017 M40 MPH MCINTOSH GA OFFICIAL NWS OBS

THE NERRS SITE AT SAPELO ISLAND MEASURED A 35 KNOT WIND GUST WITH A PASSING LINE OF THUNDERSTORMS.

0650 PM HAIL DOWNTOWN CHARLESTON 32.78N 79.94W
04/03/2017 E0.25 INCH CHARLESTON SC SOCIAL MEDIA

MULTIPLE REPORTS RECEIVED THROUGH SOCIAL MEDIA OF PEA SIZED HAIL IN DOWNTOWN CHARLESTON.

0651 PM MARINE TSTM WIND 1 SW FOLLY BEACH 32.65N 79.94W
04/03/2017 M42 MPH AMZ350 SC MESONET

THE WEATHERFLOW SITE AT THE FOLLY BEACH PIER MEASURED A 37 KNOT WIND GUST WITH A PASSING LINE OF THUNDERSTORMS.

0656 PM MARINE TSTM WIND 4 ESE CHARLESTON 32.75N 79.87W
04/03/2017 M44 MPH AMZ330 SC MESONET

THE WEATHERFLOW SITE AT FORT SUMTER MEASURED A 38 KNOT
WIND GUST WITH A PASSING LINE OF THUNDERSTORMS.

0657 PM MARINE TSTM WIND 22 ESE RACCOON BLUFF 31.40N 80.87W
04/03/2017 M45 MPH AMZ354 GA BUOY

BUOY 41008 MEASURED A 39 KNOT WIND GUST.

0706 PM HAIL MOUNT PLEASANT TOWNE CE 32.83N 79.82W
04/03/2017 E0.75 INCH CHARLESTON SC SOCIAL MEDIA

A REPORT WAS RECEIVED THROUGH TWITTER OF DIME TO PENNY
SIZED HAIL NEAR THE ISLE OF PALMS CONNECTOR.

**A National Weather Service Storm Survey Team determined that this
damage in Hampton County was caused by an EF-0 tornado (see statement
below).*

&&

Public Information Statement
National Weather Service Charleston SC
847 PM EDT Tue Apr 4 2017

...TORNADO CONFIRMED JUST EAST OF GIFFORD IN HAMPTON COUNTY SOUTH
CAROLINA...

Location...2.7 miles east of Gifford in Hampton County South
Carolina

Date...04/03/2017

Estimated Time...443 PM EDT

Maximum EF-Scale Rating...EF0

Estimated Maximum Wind Speed...80 MPH

Maximum Path Width...240 yards

Path Length...0.28 miles

Beginning Lat/Lon...32.86N / 81.19W

Ending lat/Lon...32.86N / 81.18W

* Fatalities...0

* Injuries...0

* The information in this statement is preliminary and subject to
change pending final review of the event(s) and publication in
NWS Storm Data.

...Summary...

The National Weather Service in Charleston SC has confirmed a
weak, brief tornado occurred just east of Gifford in Hampton
County South Carolina on 04/03/2017. A National Weather Service
storm survey team found that the tornado touched down about 2.7
miles east of Gifford, SC, then traveled approximately one third

of a mile east-northeast before lifting near Thomas Hamilton Road.

The damage was limited to uprooting of small soft and hardwood trees. More widespread tree damage was just south of the tornado, associated with straight-line winds.

This information can also be found on our website at weather.gov/chs.

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