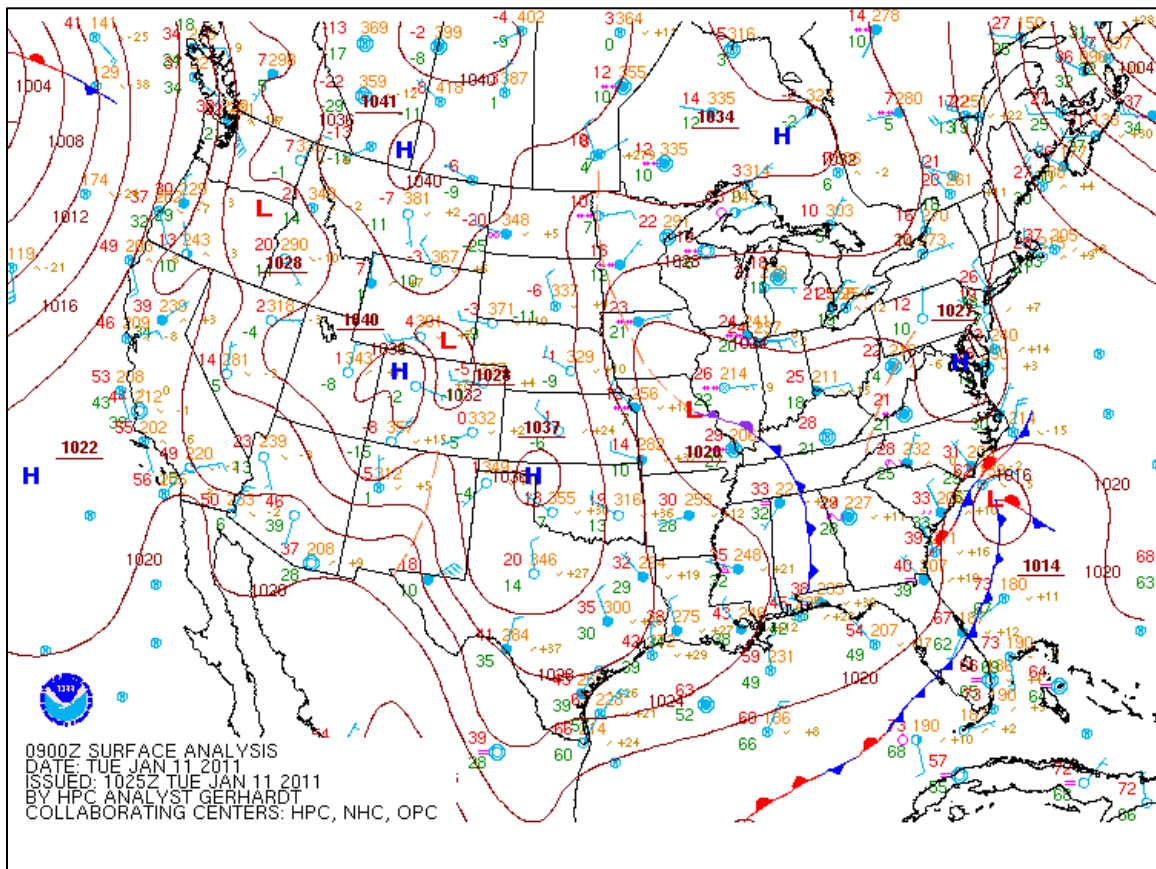
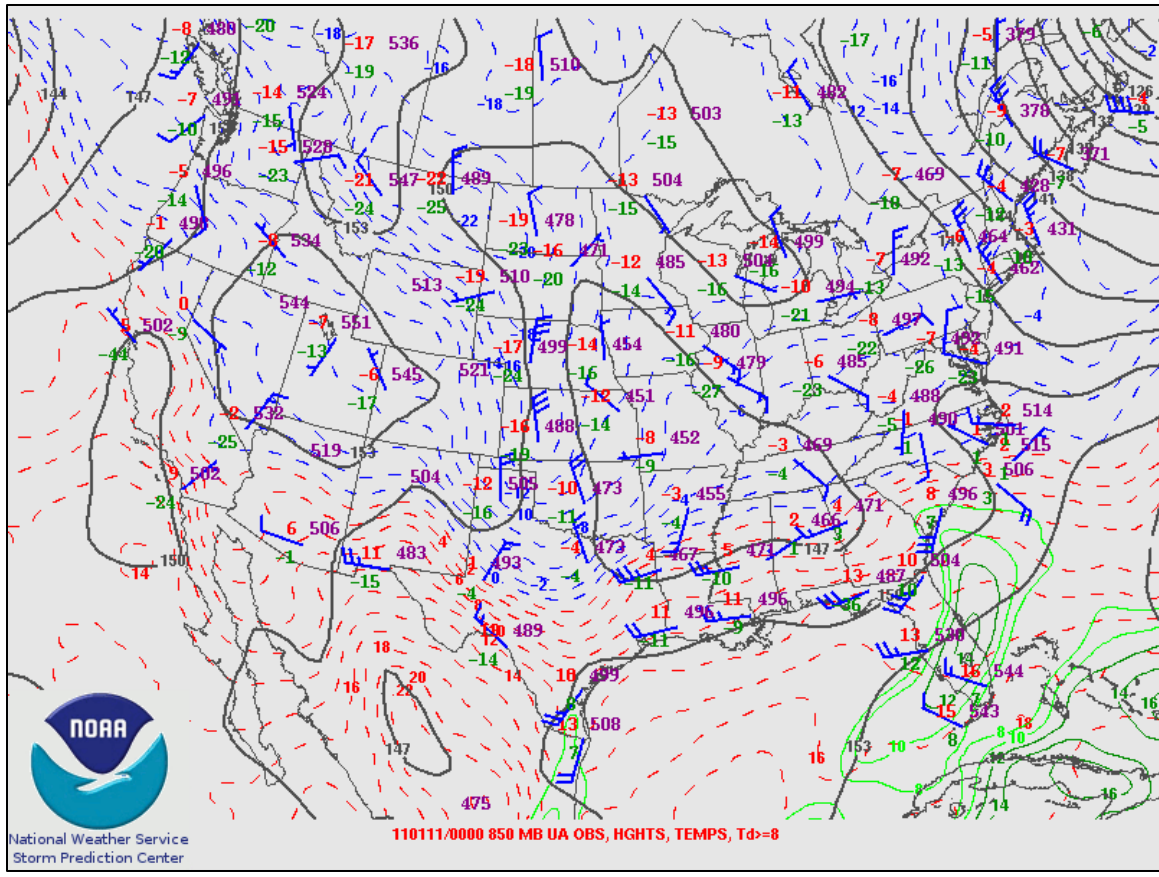


The January 10, 2011 Ice Storm

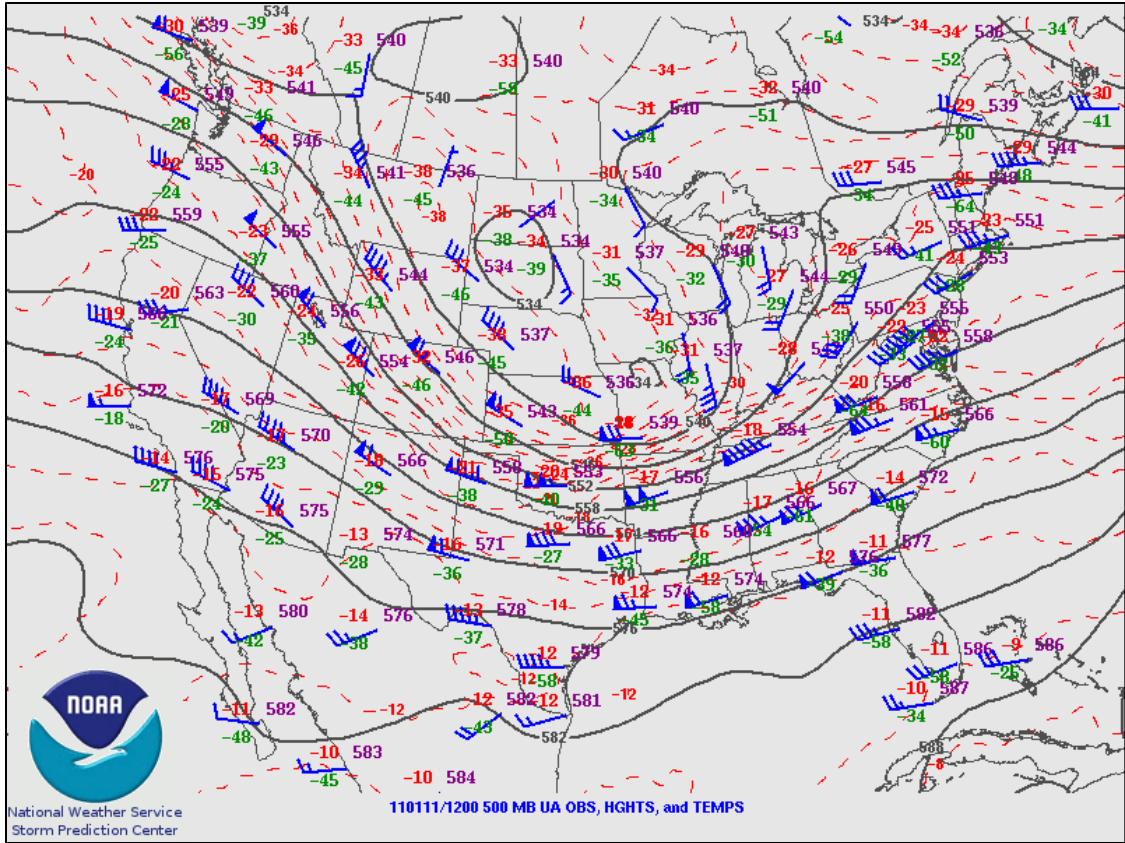
Meteorological Summary: As low pressure tracked off the Southeast coast, warm, moist air was forced over a cold wedge of high pressure. A mix of snow, sleet and freezing rain gave way to a period of moderate to heavy freezing rain as elevated showers and thunderstorms dumped rain into the cold layer at the surface. Ice accumulated quickly from the pre-dawn hours through the rush hour, creating major travel disruptions and bringing down trees and power lines where greatest accumulation occurred inland.



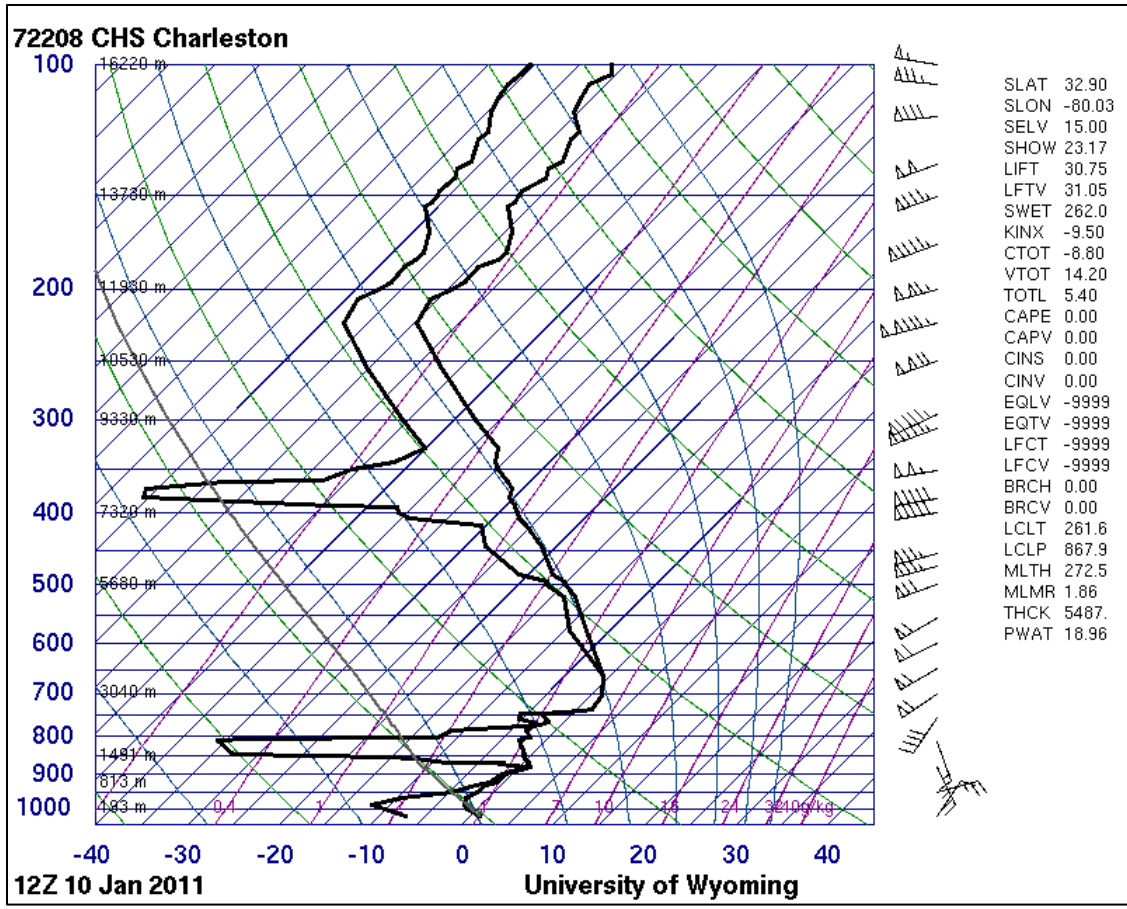
The Tuesday early morning surface analysis depicted low pressure off the Southeast coast. The cold inland wedge of high pressure held the coastal front just offshore, so rain fell into sub-freezing air at many locations.



The Monday evening 850 mb analysis, which depicted strong southerly winds pushing warmer air over the region. However, temperatures at the surface remained much colder.



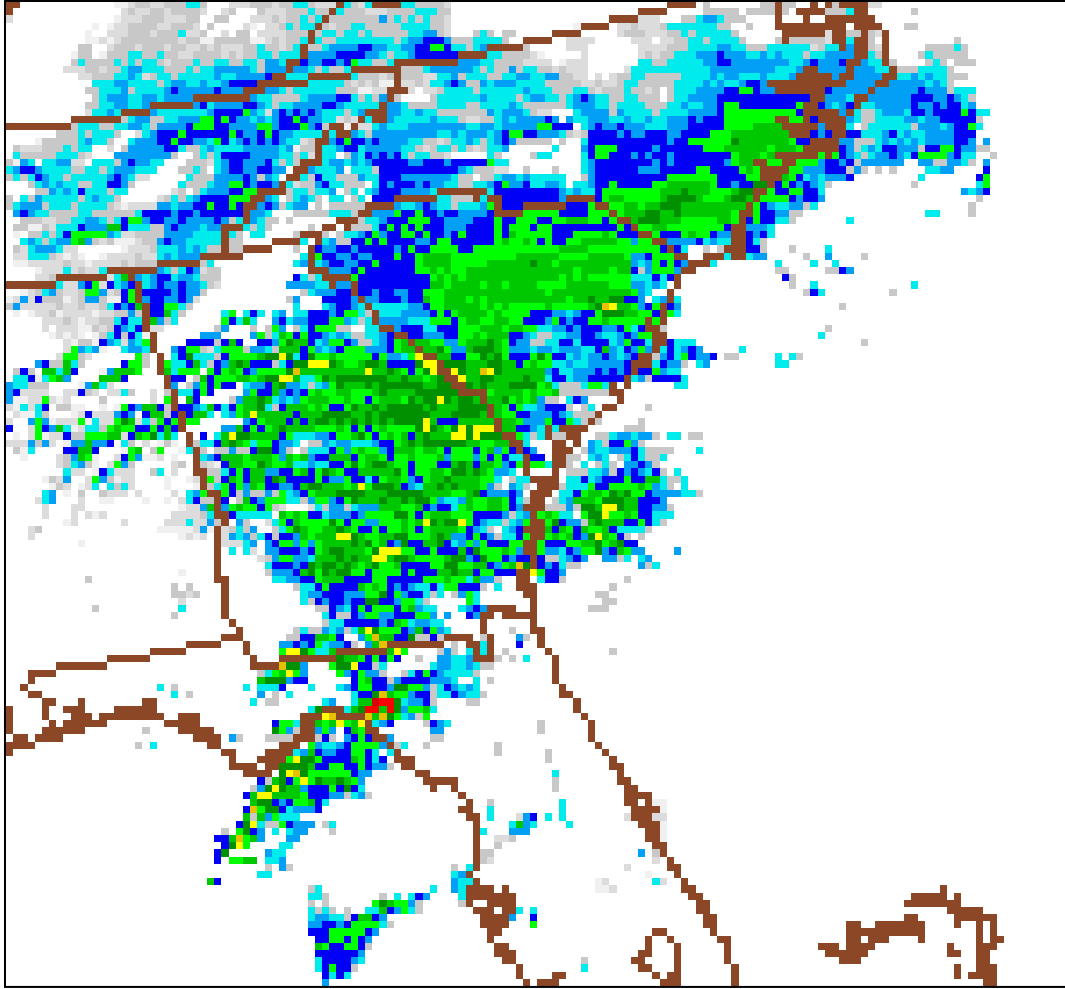
The Monday evening 500 mb analysis depicted strong winds aloft, but a deep upper low remained far west and northwest of the region.



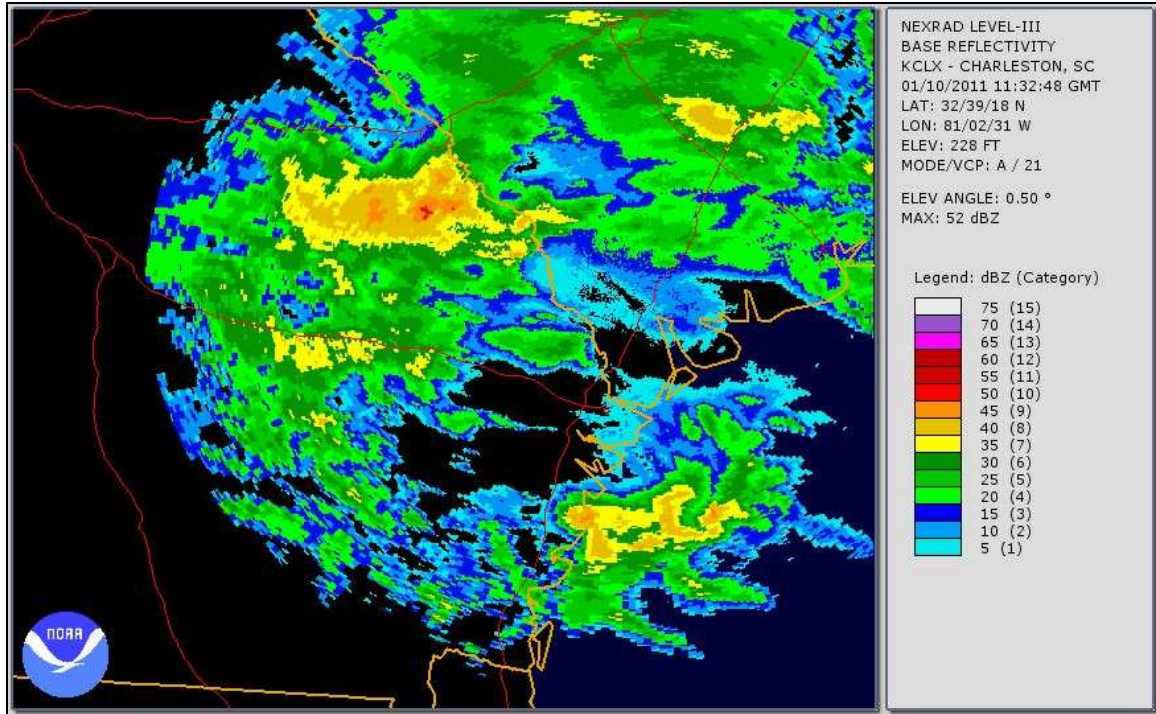
The Tuesday morning upper air sounding depicted cold, dry air at the surface, temperatures mainly above freezing between 900 mb and 600 m, residual dry layers aloft and a rather unstable layer above 700 mb. This elevated instability contributed to convective rain which froze and accumulated quickly on exposed surfaces close to the ground.



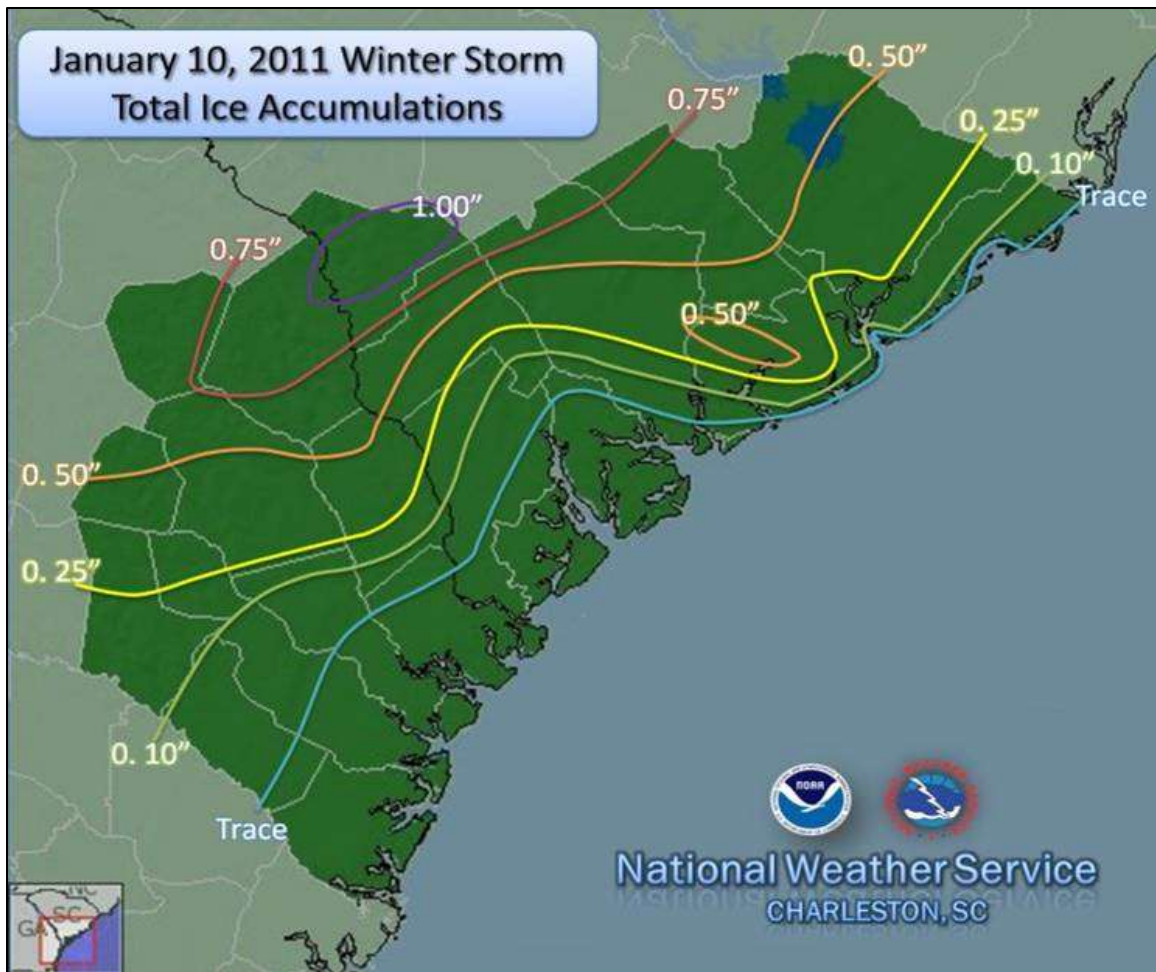
A Tuesday midday visible satellite picture showing thick clouds draped over the Southeast. Note the texture of the clouds, indicative of elevated instability and convection.



The Tuesday morning composite radar image showing widespread convective precipitation spreading into the region. Intense rainfall rates and low-level cold air combined to produce rapid ice accretion rates in many areas.



A KCLX radar reflectivity image from early Tuesday morning showing convective precipitation over the region. Most precipitation was freezing rain or cold rain at this time (2 inches of snow had fallen at St Stephen in Berkeley County), but some sleet was mixing in at northern and inland locales.



PUBLIC INFORMATION STATEMENT
 NATIONAL WEATHER SERVICE CHARLESTON SC
 426 PM EST TUE JAN 11 2011

...STORM TOTAL SNOW AND ICE ACCUMULATIONS FOR THE JANUARY 10 2011 WINTER STORM...

THE FOLLOWING ARE UNOFFICIAL SNOW TOTALS FOR THE JANUARY 10 2011 WINTER STORM. APPRECIATION IS EXTENDED TO SKYWARN SPOTTERS...BROADCAST MEDIA...COOPERATIVE OBSERVERS...COCORAHS OBSERVERS AND THE PUBLIC FOR SENDING SNOW AND ICE REPORTS. THIS SUMMARY IS ALSO AVAILABLE ON OUR WEBSITE AT WEATHER.GOV/CHS

*****STORM TOTAL SNOWFALL*****

LOCATION	STORM TOTAL SNOWFALL /INCHES/	TIME/DATE OF MEASUREMENT	COMMENTS
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GEORGIA

...BRYAN COUNTY...

PEMBROKE T 803 AM 1/10
 3 E PEMBROKE T 627 AM 1/10

SOUTH CAROLINA

...ALLENDALE COUNTY...

ALLENDALE 0.1 621 AM 1/10

...BERKELEY COUNTY...

SAINT STEPHEN 1.5 851 AM 1/10
 CROSS 0.5 135 AM 1/10

...CHARLESTON COUNTY...

6 NW CHARLESTON 0.5 900 AM 1/10 COCORAHS
 6 E CHARLESTON T 636 AM 1/10
 2 W GOOSE CREEK T 611 AM 1/10
 LINCOLNVILLE T 626 AM 1/10
 2 W MEGGETT T 630 AM 1/10 COCORAHS
 WEST ASHLEY T 729 AM 1/10

...COLLETON COUNTY...

2 N RITTER T 638 AM 1/10
 HENDERSONVILLE T 640 AM 1/10

...DORCHESTER COUNTY...

SUMMERVILLE T 607 AM 1/10

*****STORM TOTAL ICE*****

LOCATION	STORM TOTAL ICE /INCHES/	TIME/DATE OF MEASUREMENT	COMMENTS
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GEORGIA

...CHATHAM COUNTY...

1 NW POOLER T 946 AM 1/10

...EFFINGHAM COUNTY...

OAKY 0.50 600 PM 1/10
 SPRINGFIELD 0.25 600 PM 1/10

...EVANS COUNTY...

CLAXTON 0.25 600 PM 1/10
 HAGAN 0.25 600 PM 1/10

...JENKINS COUNTY...

MILLEN	0.50	1050 AM	1/10
...CANDLER COUNTY...			
METTER	0.50	600 PM	1/10
...SCREVEN COUNTY...			
SYLVANIA	0.75	600 PM	1/10
...BULLOCH COUNTY...			
PORTAL	0.50	600 PM	1/10
SPRINGFIELD	0.25	600 PM	1/10
...LIBERTY COUNTY....			
GUM BRANCH	0.05	600 PM	1/10
...BRYAN COUNTY...			
GROVELAND	0.10	600 PM	1/10
...TATTNALL COUNTY...			
COBBTOWN	0.25	600 PM	1/10
REIDSVILLE	0.15	600 PM	1/10
...LONG...			
LUADOWICI	0.05	1000 AM	1/10

SOUTH CAROLINA

...ALLENDALE COUNTY...			
ALLENDALE	1.00	600 PM	1/10
MARTIN	1.00	600 PM	1/10
...BEAUFORT COUNTY...			
BLUFFTON	T	858 AM	1/10
...BERKELEY COUNTY...			
HANAHAN	0.25	1222 PM	1/10
MONCK'S CORNER	0.25	1100 AM	1/10
GOOSE CREEK	0.18	600 PM	1/10
CROSS	0.05	1013 AM	1/10
...CHARLESTON COUNTY...			
JOHNS ISLAND	0.50	820 AM	1/10
WEST ASHLEY	0.40	237 PM	1/10
NORTH CHARLESTON	0.16	600 PM	1/10
SEABROOK ISLAND	0.15	600 PM	1/10
CHARLESTON AIRPORT	0.15	100 PM	1/10
...COLLETON COUNTY...			
1 E TOBYS BLUFF	0.50	800 AM	1/10
...DORCHESTER COUNTY...			
RIDGEVILLE	0.50	600 PM	1/10
SUMMERVILLE	0.50	809 AM	1/10

SUMMERVILLE	0.40	136 PM	1/10
OAKDALE ESTATES	0.25	1030 AM	1/10

...HAMPTON COUNTY...

HAMPTON	0.25	600 PM	1/10
VARNVILLE	0.25	600 PM	1/10
ESTILL	0.25	600 PM	1/10

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