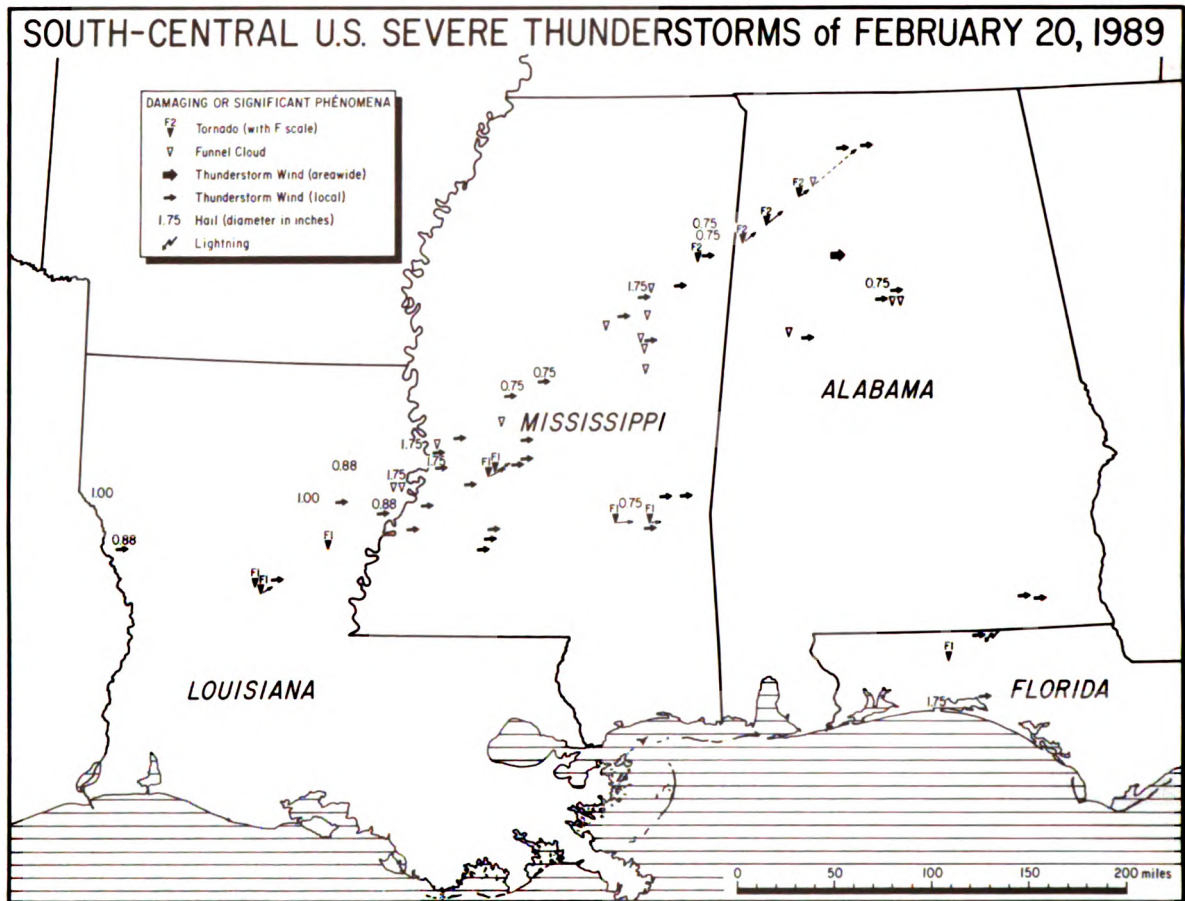
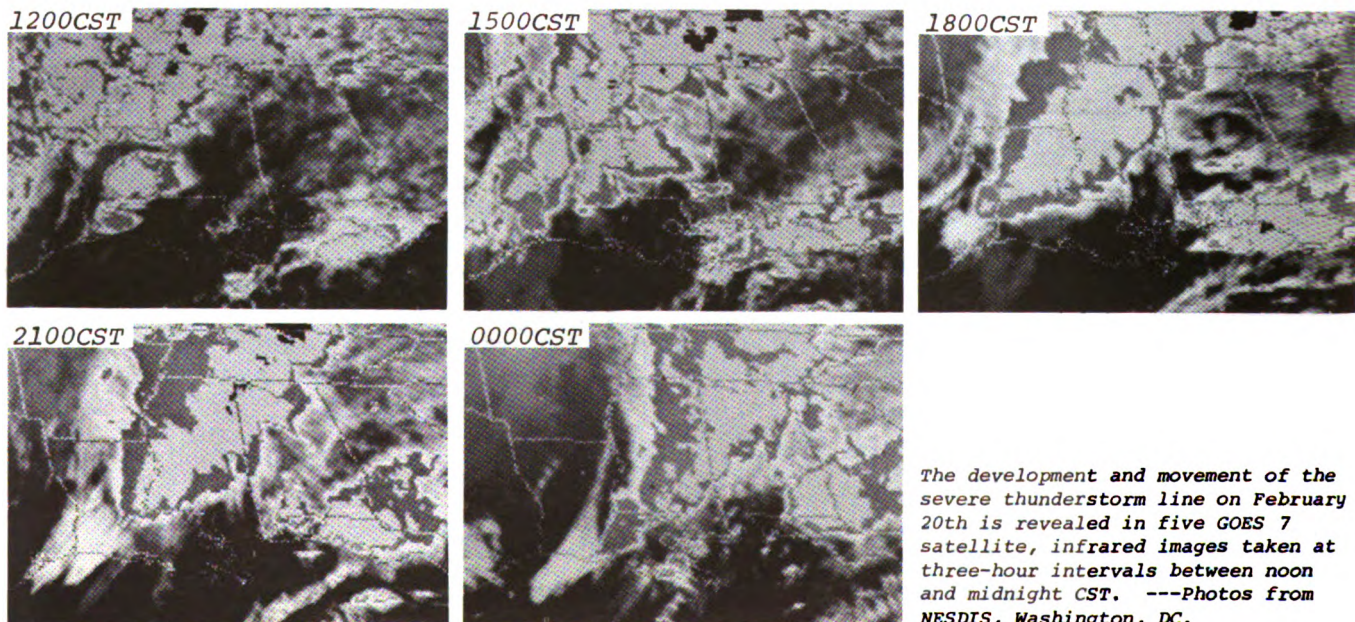


### 3. SEVERE THUNDERSTORMS in the SOUTH-CENTRAL and SOUTHEAST U.S. on February 20-21, 1989

The most prolific period of severe thunderstorm activity during February 1989 occurred over two consecutive days, the 20th and 21st in the South-Central U.S. and Southeast U.S., respectively. The severe phenomena began in central Louisiana at midday of the 20th as a low pressure system formed in northwest Louisiana. The storms had spread northeast through the afternoon and evening hours as the low raced northeast to the western front of the Appalachians, trailing its frontal system southwestward. The severe phenomena included four F2 tornadoes

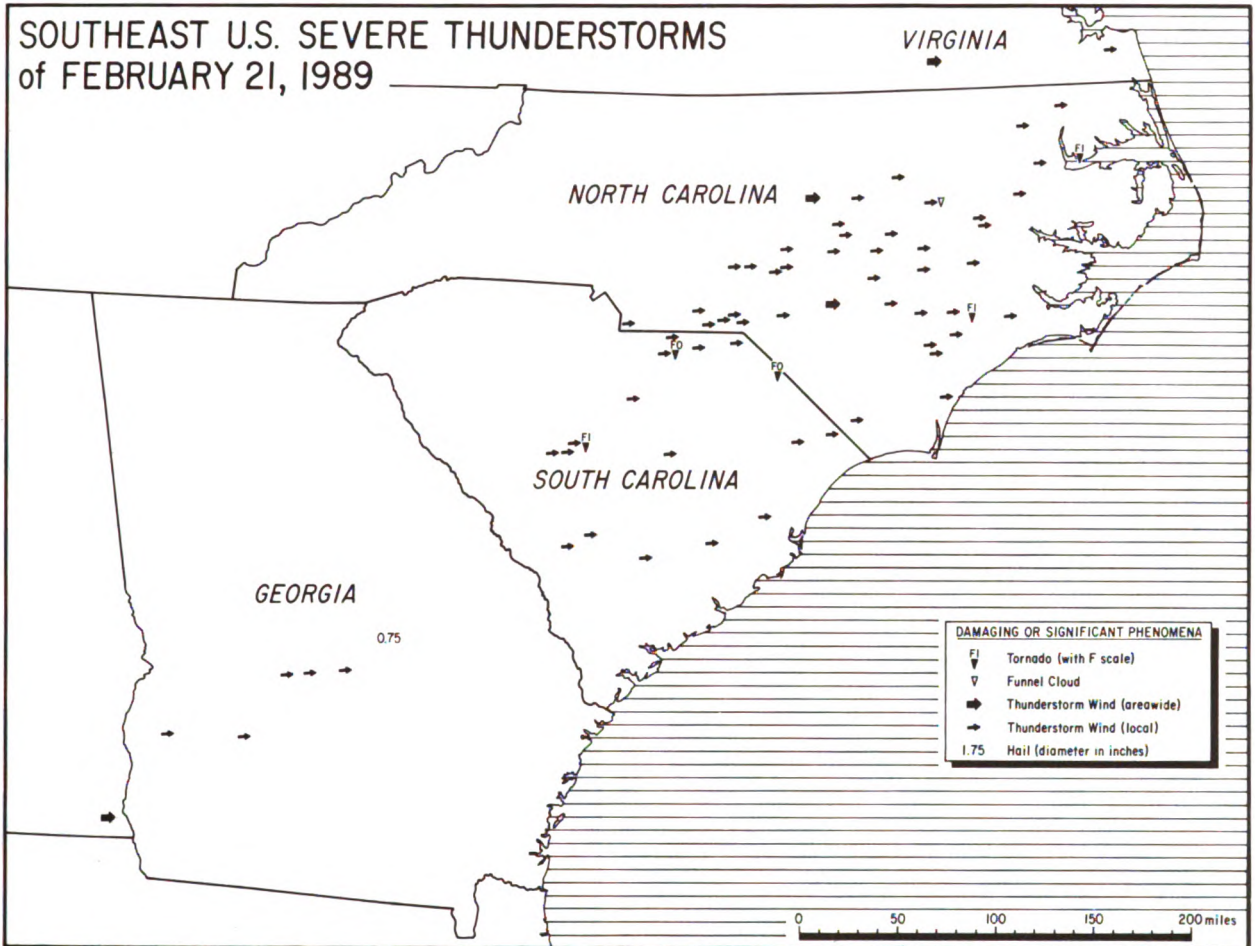


Distribution of severe thunderstorm phenomena reported in the South-Central U.S. between 1200CST of February 20th and 0300CST of the 21st. ---Graphic by the University of Chicago from data supplied by NWSFO's at Birmingham, Alabama; Miami, Florida; Slidell, Louisiana; and Jackson, Mississippi.



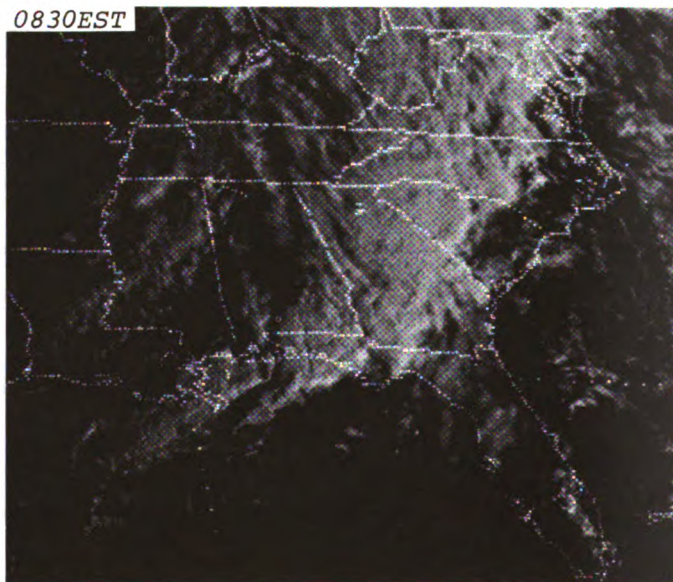
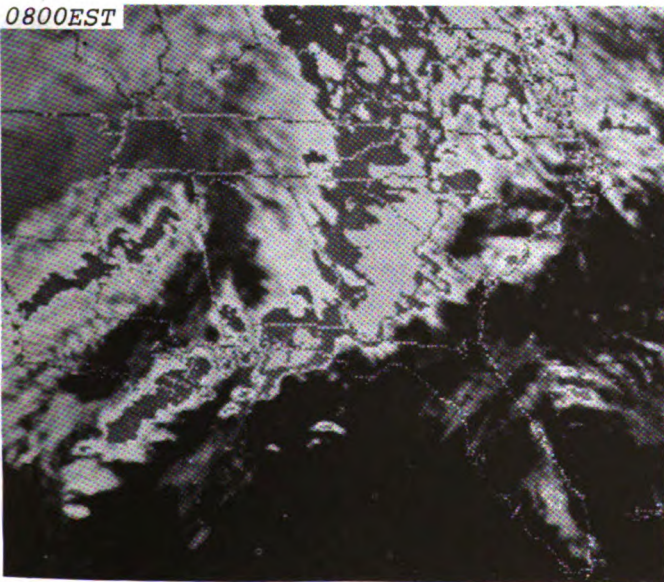
The development and movement of the severe thunderstorm line on February 20th is revealed in five GOES 7 satellite, infrared images taken at three-hour intervals between noon and midnight CST. ---Photos from NESDIS, Washington, DC.

that caused a considerable amount of damage in northeast Mississippi and northwest Alabama during the three hours prior to midnight CST. Overnight, the storms either dissipated or greatly weakened, then re-erupted in Georgia, the Carolinas and Virginia during the daylight hours of the following morning. These storms inflicted mainly wind damage and moved off the East Coast by mid afternoon. There was one death and 17 injuries caused by the storms, all of which occurred in the Carolinas on the 21st.

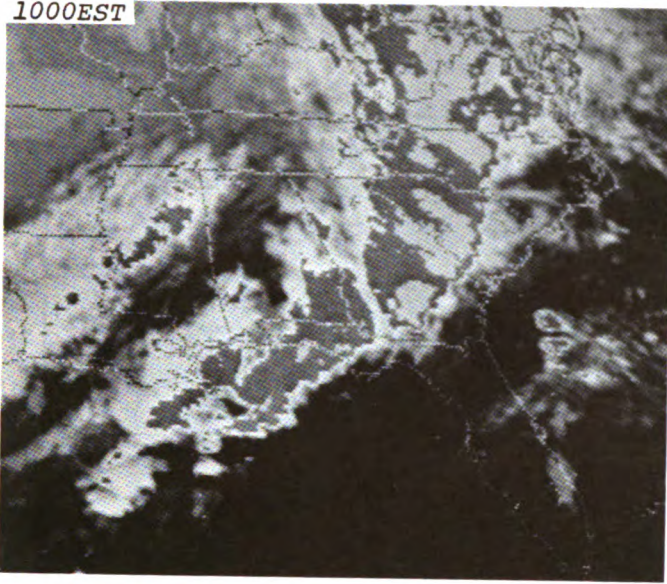


Distribution of severe thunderstorm phenomena reported in the Southeast U.S. between 0500EST and 1500EST of February 21st, 1989. ---Graphic by the University of Chicago from data supplied by NWSFO's at Birmingham, Alabama; Atlanta, Georgia; Raleigh, North Carolina; and Washington, DC; and the South Carolina State Climatology Office, Columbia.

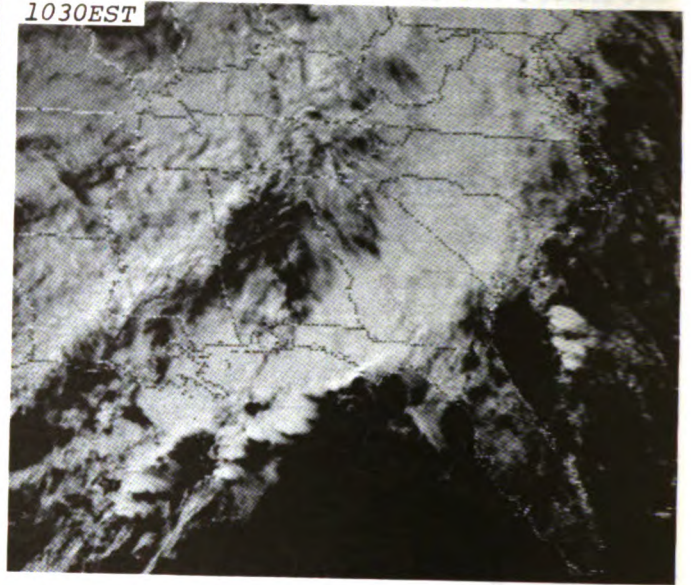
Below and on the following page, the February 21st storms are depicted in infrared (left) and visible (right) sequences of GOES 7 satellite images taken at two-hour intervals between 0800 and 1400EST and 0830 and 1430EST, respectively. ---Photos from NESDIS, Washington, DC.



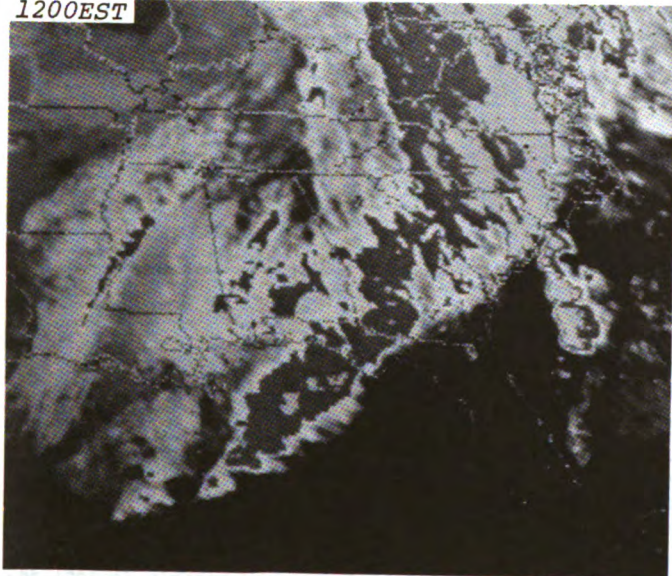
1000EST



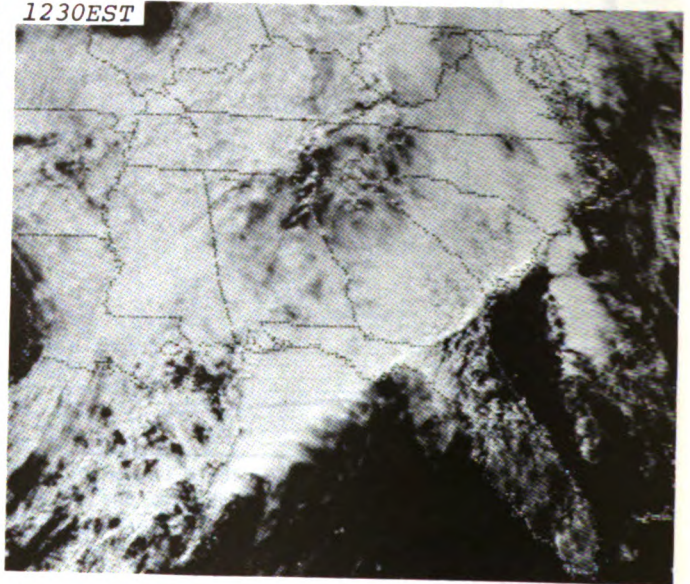
1030EST



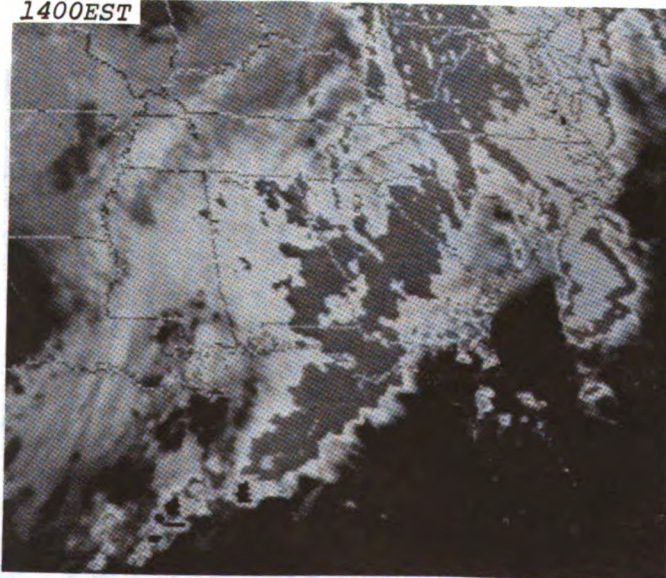
1200EST



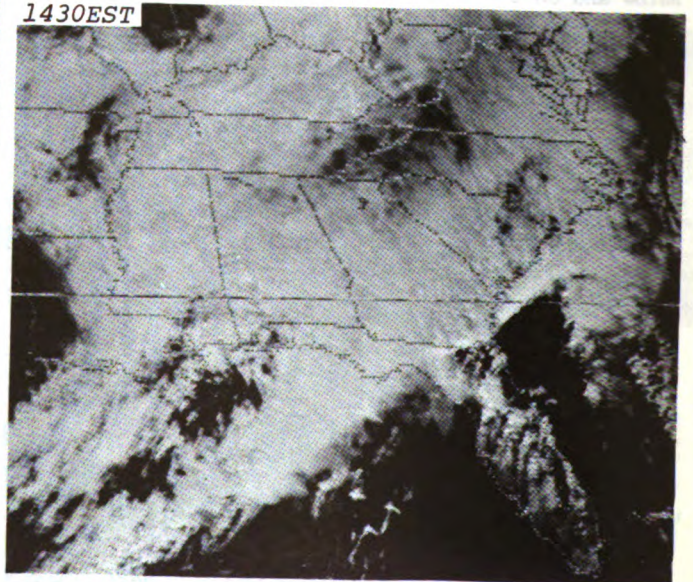
1230EST



1400EST



1430EST



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1989

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INURED	PROPERTY	CROPS	

## NEW YORK, Western

<b>Erie County</b>									
<b>Buffalo Area</b>	07 0700 EST				0	0	5	0	Snow
	Lake-effect snow accumulated to more than a foot by mid-morning. It caused many traffic delays, vehicular accidents, and cancellation of meetings. The highest snowfall amount was 15 inches.								
<b>Chautauqua County</b>									
<b>Jamestown</b>	08 Noon				0	0	4	0	High Winds
<b>Erie County</b>									
<b>Buffalo Area</b>	08 Afternoon				0	0	4	0	High Winds(54)
<b>Portions of Genesee and Wyoming Counties</b>	08 Afternoon				0	0	4	0	High Winds
	Strong winds whipped up the snow on the ground, created zero visibilities and rendered driving very dangerous. There were many accidents, one of which resulted in the death of a motorist.								
<b>Genesee County</b>									
<b>Batavia</b>	09 Morning				0	0	4	0	High Winds
<b>Portions of Wyoming County</b>	09 Morning				0	0	4	0	High Winds
	High winds and snow caused zero visibilities. Schools and businesses had to close.								

## 31 NORTH CAROLINA

<b>NC2002-003-005-006-007-009-010</b>	17 1700EST				0	0	0	0	Heavy Snow
<b>Northern North Carolina</b>	During afternoon of February 17, snow fell in the Northern Mountains of the state, and slowly spread across the northern half of North Carolina to the Northern Coastal Area by late that evening. Snow and some freezing rain continued on the 18th and ended on the 19th. Total accumulations averaged 10 to 15 inches of snow along all of the North Carolina Virginia border with two to three inches from Charlotte to Sanford to Wilson to Washington. The area to the south of the snow experienced damaging freezing rain from Monroe to Lillington to north of Goldsboro.								
<b>Ason Co.</b>	21 0900EST				0	2	6	0	TSTM Winds
<b>Wadesboro</b>									
<b>Richmond Co.</b>	21 0912EST				0	0	6	0	TSTM Winds
<b>Rockingham</b>									
<b>Montgomery Co.</b>	21 0916EST				0	0	4	0	TSTM Winds
<b>Candor</b>									
<b>Union Co.</b>	21 0916EST				0	0	5	0	TSTM Winds
	Violent thunderstorm downburst produced extensive damage across the Southern Piedmont. In Ason County near Wadesboro a store roof was damaged, walls were blown down at a hospital construction sight and a cable television antenna was blown down. Two people were injured by flying debris. Two Cessna airplanes were blown over at the county airport. In Morven several windows were blown out and a rooftop was damaged and an overhead walkway damaged at an elementary school. In a rural section of southwest Union County several farms were damaged, and barns and trees were blown down. In Richmond County near Rockingham a motel roof was destroyed, two homes damaged and a wall at a construction sight was blown down. Near Hamlet two storage buildings were damaged. Near Cordova numerous trees were blown down. A mobile home was damaged and trees blown down in Candor of Montgomery County.								

## NORTH CAROLINA

<b>Chatham Co.</b>	21 1020EST				0	0	0	0	TSTM Winds
<b>Moore Co.</b>	21 1027EST				0	2	5	0	TSTM Winds
<b>Eagle Springs</b>									
<b>Moore Co.</b>	21 1040EST				0	0	5	0	TSTM Winds
<b>Vass and Lakeview</b>									
<b>Harnett Co.</b>	21 1045EST				1	5	5	0	TSTM Winds
<b>Lillington</b>									
<b>Lee Co.</b>	21 1055EST				0	0	5	0	TSTM Winds
<b>Hoke Co.</b>	21 1100EST				0	0	4	0	TSTM Winds
<b>Bowmore</b>									
<b>Cumberland Co.</b>	21 1110EST				0	0	4	0	TSTM Winds
<b>Wake Co.</b>	21 1130EST				0	0	0	0	TSTM Winds
<b>Raleigh</b>									
<b>Fuquay Varina</b>									
<b>Franklin Co.</b>	21 1155EST				0	0	3	0	TSTM Winds
<b>3 S Bunn</b>									
<b>Johnston Co.</b>	21 1210EST				0	0	5	0	TSTM Winds
<b>J E Benson and Smithfield</b>									
	A solid line of rapidly moving thunderstorms continued to sweep across central North Carolina. Trees were blown down in northeast Chatham County. In Moore County at Eagle Springs two people were injured as trees were downed and two mobile homes were destroyed. Two mobile homes were destroyed in West End. Trees were blown down near Vass and Lakeview. In Harnett County a man was killed and three others were injured when thunderstorm winds blew down a home under construction in Lillington. Three mobile homes were damaged in Angier, two injuries were reported. In southwest Lee County two mobile homes were destroyed and numerous trees blown down. Near Bowmore in Hoke County two mobile homes were destroyed. In Cumberland County there were widespread reports of trees down and minor damage to barns and buildings. In Johnston County a roof was blown off a house 4 miles east of Benson. Trees were blown down and roofs damaged near Smithfield. Just south of Bunn in Franklin County the roof was blown off a garage. Trees were blown down over much of Wake County. (MSOP)								
<b>Pitt Co.</b>	21 1215EST				0	2	4	0	TSTM Winds
<b>3 E Farville</b>									
<b>Wayne Co.</b>	21 1215EST				0	0	3	0	TSTM Winds
<b>Goldsboro</b>									
<b>Lenoir Co.</b>	21 1215EST				0	0	0	0	TSTM Winds
<b>Kinston</b>									
<b>Wilson Co.</b>	21 1217EST				0	0	4	0	TSTM Winds
<b>Wilson</b>									
<b>Wayne Co.</b>	21 1245EST				0	0	5	0	TSTM Winds
<b>4 N Mt. Olive</b>									
<b>Pitt Co.</b>	21 1300EST				0	2	5	0	TSTM Winds
<b>6 SW Greenville</b>									
	In Pitt County trees and power lines were blown down and a mobile home was damaged near Farville. Two people were injured. South of Greenville powerful downburst destroyed two mobile homes and damaged two houses and a business. In Wayne County trees were blown down and a barn was destroyed near Mount Olive. A large metal factory building was severely damaged near Mount Olive. In Lenoir County, Kinston reported trees down. A funnel cloud was sighted by amateur radio spotters in the Wilson area. Trees were blown down and minor roof damage was also reported.								
<b>Duplin Co.</b>	21 1220EST				0	0	4	0	TSTM Winds
<b>Magnolia</b>									
<b>Sampson Co.</b>	21 1245EST				0	0	4	0	TSTM Winds
<b>near Clinton</b>									
<b>Sampson Co.</b>	21 1245EST				0	0	4	0	TSTM Winds
<b>Spivey's Corner</b>									
<b>Pender Co.</b>	21 1248EST				0	0	3	0	TSTM Winds
<b>Willard and 5 N Burgaw</b>									
<b>Duplin Co.</b>	21 1250EST				0	0	4	0	TSTM Winds
<b>Beulaville</b>									
<b>Onslow Co.</b>	21 1305EST				0	0	4	0	TSTM Winds
<b>Belgrade</b>									
<b>Duplin Co.</b>	21 1310EST				0	0	4	0	TSTM Winds
<b>Pin Hook</b>									
<b>Columbus Co.</b>	21 1330EST				0	0	0	0	TSTM Winds
<b>Nakina</b>									
<b>New Hanover Co.</b>	21 1345EST				0	0	3	0	TSTM Winds
<b>8 NE Wilmington</b>									
	In Duplin County downburst winds damaged trees, barns and some residences as the a thunderstorm swept from Magnolia to Beulaville to Pin Hook. In Sampson County trees and tobacco barns were destroyed near Clinton and Spivey's Corner. In Pender County trees were blown down and small barns were damaged or destroyed near Willard and 5 miles north of Burgaw. In Belgrade in Onslow County two mobile homes were destroyed and numerous trees blown down. A mobile home was turned over and barns damaged and trees blown down in Nakina of Columbus County. New Hanover County reported two mobile homes turned over, boats turned over and trees and power lines blown down about eight miles northeast of Wilmington.								

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1989

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>31 NORTH CAROLINA</b>									
Onslow Co. 4 SW Richlands	21	1300EST	2	100	0	0	5	0	Tornado (F1)
		A small tornado touched down about four miles southwest of Richlands and moved through a rural area for about two miles to the northeast. The tornado blew down many trees but only struck one home, damaging the roof. The tornado lifted about two miles southwest of Richlands.							
Martin Co. Beurgress	21	1325EST			0	0	5	0	TSTM Winds
Bertie Co. Windsor	21	1330EST			0	0	4	0	TSTM Winds
Hertford Co. Gates Co. near Gatesville	21	1330EST			0	0	0	0	TSTM Winds
	21	1400EST			0	0	0	0	TSTM Winds
		Thunderstorm winds destroyed a mobile home and two small storage buildings and blew down trees near Beurgress. In Bertie County a cooper unit was blown off a pickup truck, a cinder block wall was blown over and large tree limbs were blown down. The roof was blown off a barn and trees were blown down in southwest Hertford County. A farm building was destroyed and trees were down near Gatesville.							
Chowan Co. 4 SE Edenton	21	1410EST	.5	20	0	0	0	0	Waterspout-Tornado (F1)
		A waterspout sighted over the Albemarle Sound moved over land about four miles southeast of Edenton. The tornado moved northeast for about a half a mile before lifting near Edenton Municipal Airport.							
NCZ 002-003-004-005-006-007-008-009-010-011-012-013-014-015-016-017 All of North Carolina	23	0900EST			0	0	0	0	Heavy Snow
		During the early morning of February 23, heavy snow fell in the Northern Mountains of North Carolina. In the next 24 hours heavy snow spread over almost the entire state. Most southern areas of the state received from 2 to 6 inches of snow with 6 to 10 inches of snow in the northern half of North Carolina. The greatest snowfall amounts were 12 to 18 inches in Northern Coastal Plain.							
NCZ006 007 009 Northwest North Carolina	27	0800EST			0	0	0	0	Heavy Snow
		During the day of February 27, eight to ten inches of snow fell in the Northern Mountain with four to six inches in the northern counties of the Northwest Piedmont.							
<b>32 NORTH DAKOTA</b>									
North Dakota NDZALL	01-04				0	6	?	0	Extreme Cold
		Northwest winds of 20 to 35 mph combined with temperatures of 20 to 35 below to cause wind chill temperatures of 60 to 90 below. A wind chill temperature of 97 below was observed at Rolla, in north-central North Dakota near the Canadian border, on the morning of February 1 (0900CST).							
		On February 2, the actual temperatures across most of North Dakota never got above 20 below.							
		A seventeen year old male was stranded in his vehicle for over 60 hours in northeast North Dakota, in a remote area along the Turner-Cavalier county line. He suffered severe frostbite and hypothermia. Five passengers, traveling in an unheated bus along Interstate 94, were also treated for frostbite and hypothermia.							
		The Governor ordered schools closed on February 2 and 3, due to the extreme cold temperatures. The cold caused isolated power outages and breakage of frozen water pipes.							
<b>33 OHIO</b>									
OHZ002-003 Central Lakeshore and East Lakeshore	05	0030 EST			0	0	?	0	Heavy Snow
		Four to six inches of snow fell within 5 miles of Lake Erie from Lakewood through Cleveland to Mentor. The snow began at 1700 EST on the 4th and ended at 1200 EST on the 5th.							
OHZ003 East Lakeshore	06	2347 EST			0	0	?	0	Heavy Snow
		Four to six inches of snow fell along the Lake Erie shore in central Lake County. The heaviest snow of 6 inches fell at Fairport Harbor. The snow began at 0700 EST on the 6th and ended at 0100 EST on the 7th.							
OHZ003 East Lakeshore	09	0700 EST			0	0	?	0	Heavy Snow
		Four to six inches of snow fell on Lake Geauga and Ashtabula counties. The heaviest snow was over southern Ashtabula County. The snow began at 1600 EST on the 8th and ended at 0800 EST on the 9th.							
OHZ008 Adams County	14	0900 EST- 1400 EST			0	0	?	0	Flood
	15	1000 EST- 2400 EST			0	0	?	0	Flood
		The Ohio Brush Creek flooded at West Union. The crest equaled 15.9 feet on the 14th at 1130 EST. Ohio Brush Creek went into flood again on the 15th and crested at 16.9 feet at 1700 EST. Minor lowland flooding occurred with both floods. Flood stage is 15.0 feet.							
Washington County	15	1400 EST			0	0	?	0	Flash Flood
		Over 3 inches of rain fell on Washington County causing many flooded roads and highways. The following roads were under water: State Route 555, SR 26 near Bloomfield, SR 676 near Dell and SR 821 at Elba; County Road 111 near Belpre, CR 33 in Grand Township, CR 206 at Dell and the intersection of CR 9 and CR 3. CR 12 was closed due to a rock slide.							
OHZ009 Pike County	16	0030 EST- 17 1300 EST			0	0	?	0	Flood
		The Scioto River flooded at Picketon. It crested at 19.0 feet on the 16th at 1800 EST. Only lowland flooding occurred. Flood stage is 16.0 feet.							
OHZ008 Adams County	21	1100 EST- 1330 EST			0	0	?	0	Flood
		The Ohio Brush Creek at West Union flooded. It crested at 15.5 feet at 1200 EST. Only minor lowland flooding occurred. Flood stage is 15.0 feet.							
OHZ009 Pike County	21	1630 EST- 22 2200 EST			0	0	?	0	Flood
		The Scioto River at Picketon flooded. It crested at 18.4 feet on the 21st at 1900 EST. Only lowland flooding occurred. Flood stage is 16.0 feet.							
OHZ006 Hocking County	21	2100 EST- 22 0230 EST			0	0	?	0	Flood
		The Hocking River at Enterprise flooded. It crested at the flood stage of 12.0 feet on the 21st at 2100 EST. Minor lowland flooding immediately along the river occurred.							
OHZ001 Northwest					0	0	0	C	Drought
		Entire Month							
		Precipitation for February averaged eighty-seven hundredths inches (0.87") over Northwest Ohio. This was only 47 percent of normal. South-Central Ohio had over 200 percent of normal precipitation that totaled six and eighty-five hundredths inches (6.85"). This was 246 percent of normal.							
		The excessive precipitation over South-Central Ohio dropped that area out of the long-term drought index. Northwest Ohio was still in the Moderate category of the Palmer Drought Severity Index. Almost 4 inches of precipitation is needed to end the long-term drought in Northwest Ohio.							

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1989

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>34 OKLAHOMA</b>									
OKZALL STATEWIDE	02-05	0000CST 1800CST			3	0	?	?	Record Cold
<p>An Arctic outbreak overspread the state on the 1st and resulted in record and near-record temperatures on the morning of the 2nd through 5th. Overnight low temperatures reached -6°F in Guymon. Strong north winds gusting to 40 MPH produced wind chills of -30°F to -50°F. Three fatalities were attributed to hypothermia on the 4th. An 81-year-old Oklahoma City man died in his home; an 82-year-old Durant woman also died in her home, and a middle-aged man was found frozen at the bottom of a drainage ditch in Oklahoma City. MBIP F82P</p>									
<b>35 OREGON</b>									
ORZALL All of Oregon	01-08	1400PST			5	?	6	?	Winter Storm followed by Prolonged Cold
<p>Arctic air pushed southward across Oregon between the 1st and the 3rd of the month. Heavy snow fell over all of Oregon. Some coastal areas had 6 to 12 inches of snow, an event of which is almost unheard. Salem reported 9 inches of snow, and over a foot fell in the Cascades and northeast mountains. As the Arctic air settled over the state, numerous record temperatures were set. Strong winds produced wind chill temperatures of between 30 and 60°F below zero. There was extensive power failures as well as considerable home and business damage resulting from frozen plumbing throughout the state. Damage estimates exceeded well over a million dollars. Several moored boats sank on the Columbia River because of ice accumulation. There were five weather-related deaths, three in auto accidents caused by ice and snow, and two in which women had frozen to death. M23V, F05V, F39V, F720, F400</p>									
ORZ006-010-011-013 Cascades, Northeast Mountains and Columbia Basin	16-18	1400PST- 1430PST			0	?	?	0	Winter Storm (Snow and Freezing Rain)
<p>A low pressure system deepened off the northern Oregon coast on the 16th and remained stationary until it weakened on the 18th. The warm moist overrunning produced heavy snow in the Cascades with at least a foot of new snowfall. On the 17th and 18th, freezing rain fell in the Columbia Basin and in the valleys of the northeastern mountains.</p>									
<b>36 PENNSYLVANIA, Eastern - NONE REPORTED</b>									
<b>36 PENNSYLVANIA, Western</b>									
Washington County, 15 E Washington	16	1500 EST			0	0	0	0	Flood
<p>Minor flooding occurred at Charleroi on the Monongahela River. The river height rose to one foot above flood stage.</p>									
Allegheny County, 17 SE Pittsburgh	16	2000 EST			0	0	0	0	Flood
<p>Minor flooding occurred at Braddock on the Monongahela River. The river height rose to one and a half feet above flood stage.</p>									
PAZ005 Laurel Mountains	26	2230 EST			0	0	0	0	Heavy Snow
<p>Six to ten inches of snow fell in Somerset and Cambria counties.</p>									
<b>37 RHODE ISLAND</b>									
RIZ002 South-Central Rhode Island	24-25	1800EST- 1200EST			0	0	0	0	Heavy Snow
<p>An ocean storm moving northeastward well off Cape Cod brought a period of heavy snow to the south-central portion of the state. Up to 8 inches of snow fell at Point Judith and at Charlestown. Highway travel was most affected by the storm. Gusty winds caused blowing and drifting of the snow.</p>									
<b>38 SOUTH CAROLINA</b>									
SCZ001-002 Northwest South Carolina	17-19				0	0	6	0	Ice Storm
<p>An overrunning precipitation pattern led to freezing precipitation over much of the Upstate area of South Carolina.</p> <p>During the late morning Cherokee, Oconee, Spartanburg, and Pickens counties reported light mixed precipitation. The only accumulation of note was at Seltzer Mountain Fire Tower in Oconee County where the tower was "load-up".</p> <p>The freezing rain caused slick roads and accidents (especially on bridges and overpasses) as early as 800 PM February 17. However, accumulations did not reach Ice Storm criteria until about 0000EST February 18. At that time, the first reports of damage were received from Spartanburg County.</p> <p>In many places the accumulation of ice was very light, but northeast of Greer about 1 inch of glaze and sleet accrued on trees and power lines. On Saturday evening, the mountains had 1 to 3 inches of snow. There were reports of a minor glaze accumulation as far south as Newberry and as far east of Fort Mill.</p> <p>There were numerous trees across roads in the northwestern portion of South Carolina, and many cars suffered damage from falling trees, limbs, and ice. Power outages varied across the area. Some communities were without power well into Sunday evening.</p> <p>There were no known direct weather-caused casualties. There were numerous auto accidents with usual injuries on both nights; and a house in Spartanburg County caught fire, killing three people. Apparently, ice-laden power lines fell against the house and set it on fire. More roads were involved Saturday night, but there was less traffic.</p>									
SCZ 003-004-005-006-007-008 Central & Eastern South Carolina	21	0900EST			0	0	4	0	TSTM
<p>An area of thunderstorm moved across the state during the late morning and early afternoon causing wind damage at a number of locations. Total damage of thunderstorm winds and three small tornadoes included 5 mobile homes destroyed, 19 suffering at least minor damage, 2 businesses were destroyed and 3 damaged. Total damage of entire storm event was \$400,000.</p>									
Lexington County, Gilbert and Redbank	21	0900EST			0	0	5	0	TSTM Winds
<p>Thunderstorm winds felled trees and damaged several mobile homes.</p>									
Lexington County, 6 E Lexington	21	0900EST	1.0	100	0	0	5	0	Tornado (F1)
<p>A tornado ripped the roof of a home and business, destroyed a mobile home and damaged another mobile home. A wind speed of 60 knots was recorded at Columbia Airport at 0855EST.</p>									
Lexington County, 4 W West Columbia	21	1910EST			0	1	4	0	TSTM Winds
<p>Thunderstorm winds injured one person at Lexington Wire and Cable Company along SC Rte. 378, four miles west of West Columbia.</p>									
Richland County, Shandon area	21	0920EST			0	0	3	0	TSTM Winds
<p>Thunderstorm winds broke several trees, causing minor damage to fences and roofs.</p>									
Barnwell County, 6 E Barnwell	21	0930EST			0	0	4	0	TSTM Winds
<p>A roof was blown off of a building, a mobile home was damaged, and a dog was killed.</p>									
Chesterfield County, Jefferson	21	0934EST			0	0	3	0	TSTM Winds
<p>Winds damaged the roof of a factory.</p>									
Kershaw County, 7 NW Camden	21	0940EST			0	0	3	0	TSTM Winds
<p>Winds destroyed a barn and mobile home, and damaged an equipment shed.</p>									
Chesterfield County, 3 E Pageland	21	0950EST			0	1	5	0	TSTM Winds
<p>Winds destroyed a mobile home, damaged a mobile home and two turkey houses, and disrupted power. A number of turkeys in the turkey houses were killed.</p>									
Chesterfield County, 3 E Jefferson	21	0950EST	0.2	20	0	0	5	0	Tornado (F0)
<p>A small tornado destroyed a mobile home and damaged other buildings nearby. The tornado occurred 3 miles east of Jefferson and moved to the northeast.</p>									
Sumter County, Sumter	21	0953EST			0	0	4	0	TSTM Winds
<p>Trees were blown down and a roof was blown off of a warehouse.</p>									
Chesterfield County, 3 S Chesterfield	21	1000EST			0	1	2	0	TSTM Winds
<p>A few trees were downed.</p>									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1989

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

## SOUTH CAROLINA

Bamberg County, 2 NW Bamberg	21 1002EST	0 0 5 0	TSTM Winds		Three mobile homes were damaged two miles northwest of Bamberg. Trees were blown down between Bamberg and Denmark.
Marlboro County, Northern Marlboro County	21 1045EST	0 0 4 0	TSTM Winds		Transmission lines designed to withstand 90 mph winds were blown down.
Dillon County, 5.5 N Dillon (Oakland Community)	21 1048EST	1.0 133 0 1 5 0	Tornado (F0)		A small tornado moving northeast over a one mile long path damaged or destroyed several mobile homes, destroyed one small business, and damaged roofs of several homes. One person in a mobile home was injured.
Dorchester County, 2 S St. George	21 1110EST	0 0 2 0	TSTM Wind		A few trees were blown down.
Berkeley County, 5 N Monks Corner	21 1140EST	0 0 2 0	TSTM Wind		A few trees were blown down.
Georgetown County, 3 E Andrew	21 1220EST	0 0 2 0	TSTM Winds		Minor wind damage was done to a home.
Henry County: Aynor Loris	21 1225EST 21 1230EST	0 0 2 0 0 0 3 0	TSTM Winds		A few trees and power lines were downed.
SC2001-002-003-004- 005-006-007-008 Statewide	23 0800EST	0 0 5 0	Heavy Snow		On February 22nd, a cold front passed through the upstate, bringing cold and windy conditions to the entire state. Cyclogenesis occurred along the frontal zone, bringing snow to the upstate early on the 23rd which spread across the remainder of the state during the day. Although much of the snow melted as it fell, depths varied from nine inches in West-Central South Carolina to 6 inches in the North-Central, 4 to 5 inches over most of the Coastal Plains, and to one inch or less along the South Coast. The snowfall disrupted traffic and caused schools and some businesses to close. The snow cover was short lived due to warm soil temperatures.

## 39 SOUTH DAKOTA

SD2 001-002-003-004- 005-006-007-008- 009-010-011-012- 013-015-016-017- 018-019-020 Most of South Dakota	01- 1800 to 02 1400 CST	0 0 0 0	Winter Storm		Four to eight inches of snow fell across western and northern South Dakota. Winds of 25 mph and subzero temperatures produced wind chill temperatures in the 50-80 below zero range. Several schools were closed across the state because of the dangerous wind chill temperatures.
SDZ014 South-Central South Dakota	02 0230 MST	1 0 0 0	Winter Storm		A man in Martin died of exposure during a winter storm. M500.

## 40 TENNESSEE

Obion County	14 0400CST	0 0 4 0	Flash Flood		Flash flooding was widespread over this 14 county area of West and Middle Tennessee. Four to six inches of rain fell over the area in less than 24 hours, most of it between midnight and 6AM. Numerous people were evacuated from their homes. Roads and streets were damaged by the flowing water and some bridges were knocked out. The hardest hit area was Wilson County. In Lebanon, Sinking Creek, also referred to as Town Creek, which runs through the middle of town, overflowed its banks and was 4 feet deep in the public square. It trapped families in their homes, flooded homes and businesses and forced the evacuation of a hospital. One woman drowned after ignoring the warnings of a police officer, having driven her car into a flooded street at around 7 AM. P6ZV
Obion County	15 2100CST	0 0 5 0	Flash Flood		An earthen dam on the rain-swollen Obion River broke and sent 4 feet of water into the town of Rives. 25 homes were flooded. The flooding caused another levee south of the town to give way and sent flood waters further downstream into the town of Obion. In all there were about 400 people in the county evacuated due to the flood waters.
Fayette County	20 1730CST	0 0 3 0	Flash Flood		With the soil saturated and all streams at or above bankfull in West and Middle Tennessee from the heavy rains less than a week before, an additional 2 to 3 inches of rain caused flash flooding in these counties. Numerous roads were flooded and some bridges were washed out. In Portland, Sumner County, 25 people had to be evacuated from their homes. Homes were also flooded in Ashland City, Cheatham County.
Chester County	20 1830CST	0 0 3 0	Flash Flood		
Hardeman County	20 1830CST	0 0 3 0	Flash Flood		
Cheatham County	20 2200CST	0 0 4 0	Flash Flood		
Sumner County	20 2200CST	0 0 3 0	Flash Flood		
Williamson County	20 2200CST	0 0 3 0	Flash Flood		
TN2001-003-016	23 0100CST	0 0 0 0	Heavy Snow		From six inches of spotty snow in the lower elevations up to twenty-two inches of snow in the higher elevations were recorded in East Tennessee. Mt. LeConte had the 22 inches. Roads were closed halting travel in this area.
TN2008-009-010-011	27 0100CST	0 0 0 0	Heavy Snow		Four to eight inches of snow fell overnight in this part of Middle Tennessee. This stopped travel and caused the closing of schools and businesses.

## 41 TEXAS, Northern

TX2021-022-023- 025-026-027-028- 031-032-033 North-Central and Northeast Texas	2- 2000CST- 7 1200CST	6 0 ? ?	Ice and Cold		A bitter cold air mass settled over North Texas. Temperatures dropped below freezing over much of North Texas on the evening of the 2nd and did not climb above freezing until the afternoon of the 7th. Approximately one inch of sleet fell across the eastern two-thirds of North Texas during the evening of the 2nd and early morning of the 3rd, coating roadways with ice. One to two inches of snow fell across North-Central Texas during the evening of the 4th and morning of the 5th. Freezing drizzle and freezing rain coated exposed surfaces with ice in Northeast Texas during the evening of the 4th and morning of the 5th.
					Many schools were closed on the 3rd due to hazardous driving conditions and on the 6th and 7th due to natural gas curtailments. Numerous accidents occurred on icy roads, resulting in five fatalities. Six other people also died from the cold and ice. A 67 year old man died on the 3rd from injuries in Dallas after he slipped on ice and hit his head. An 84 year old woman died from exposure in Fort Worth on the 3rd after apparently accidentally locking herself out of her house. A 65 year old man died of exposure on the 4th in an abandoned house in Dallas. Two men died of hypothermia in Gettysville on the 6th in their home when a bottled gas supply for their space heater ran out. A 57 year old man died in Waco of hypothermia on the 7th. Heat was available to the house he was in, but the heat was not in use. M670, F840, M650, M63P, M63P, M57P