

STORM DATA

WITH LATE REPORTS/CORRECTIONS



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28801

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C O N T E N T S

Cover: A Lyons Falls, New York home is locked in winter's icy grip after lake-effect snow from Lake Ontario buried the Tug Hill area of the state on January 4th and 5th (see Item 1, pages 6 through 8).
---Photo by Gorden H. Allen, The Journal & Republican, Lowville, New York.

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STORM DATA (ISSN 0039-1972)

The section on Outstanding Storms of the Month is prepared by Professor T. Theodore Fujita, editor, and Duane J. Stiegler, associate editor, the University of Chicago, with funding by the U. S. Office of Naval Research. The Storm Data and Unusual Weather Phenomena narratives, and summaries of Hurricanes/Tropical Storms are prepared by the National Weather Service. The National Climatic Data Center compiles statistics on deaths, injuries, damage and prepares the annual summaries of tornadoes and Lightning. This publication contains our best information on storms, but due to the difficulties inherent in collection of this type of data it is not all-inclusive. Late reports and corrections will be carried quarterly. Maps of zones used in the Storm Data and Unusual Weather Phenomena will be published in all editions.

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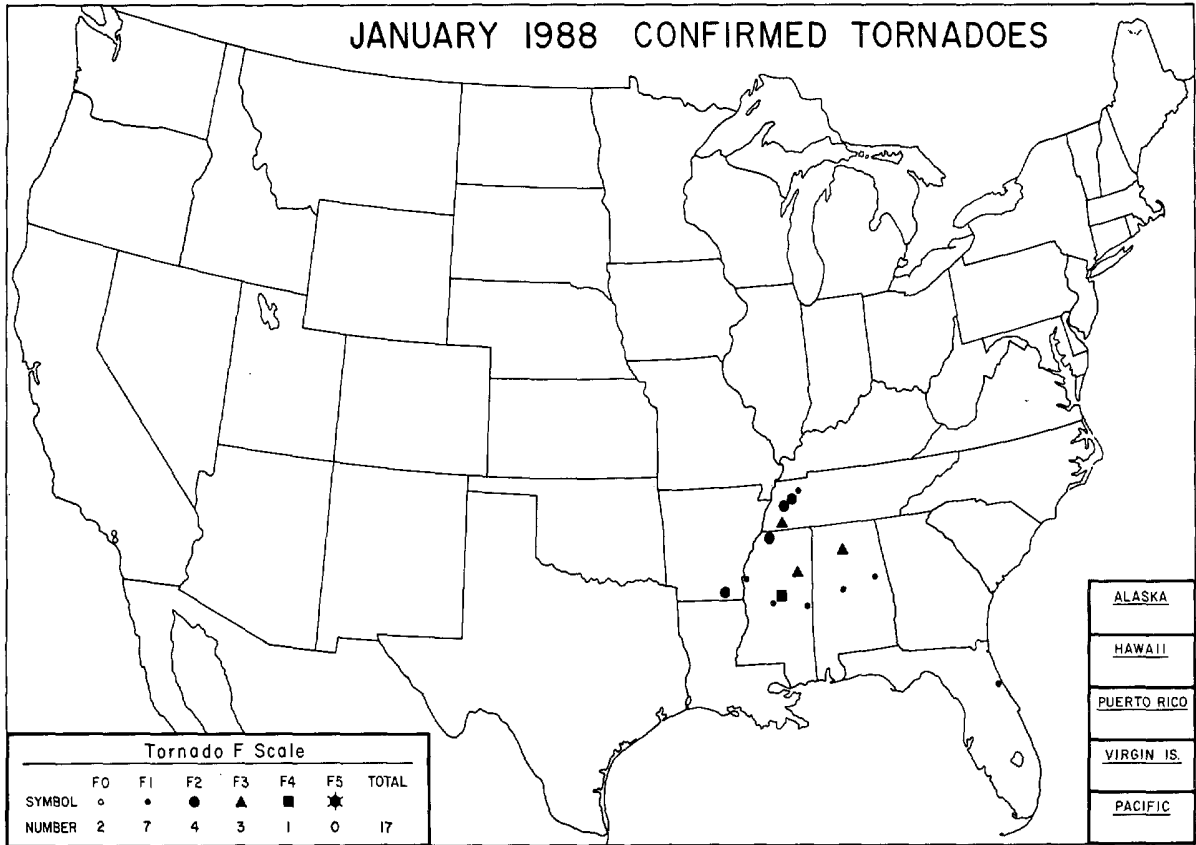
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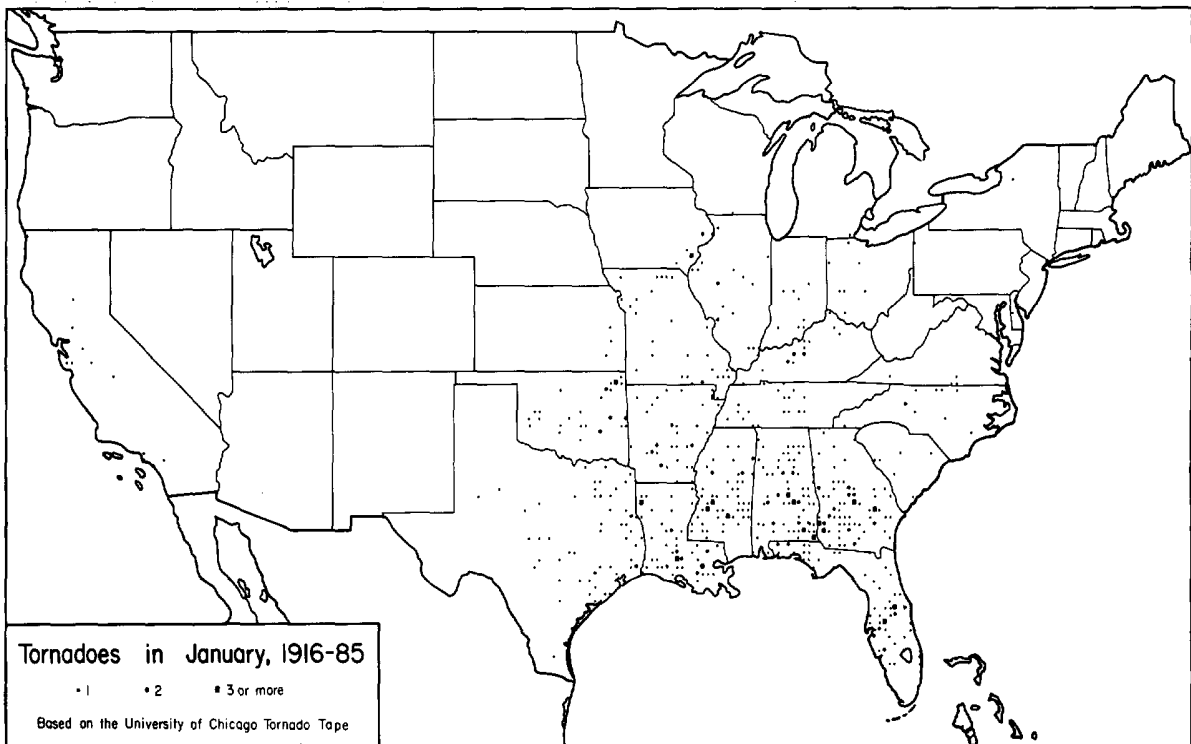
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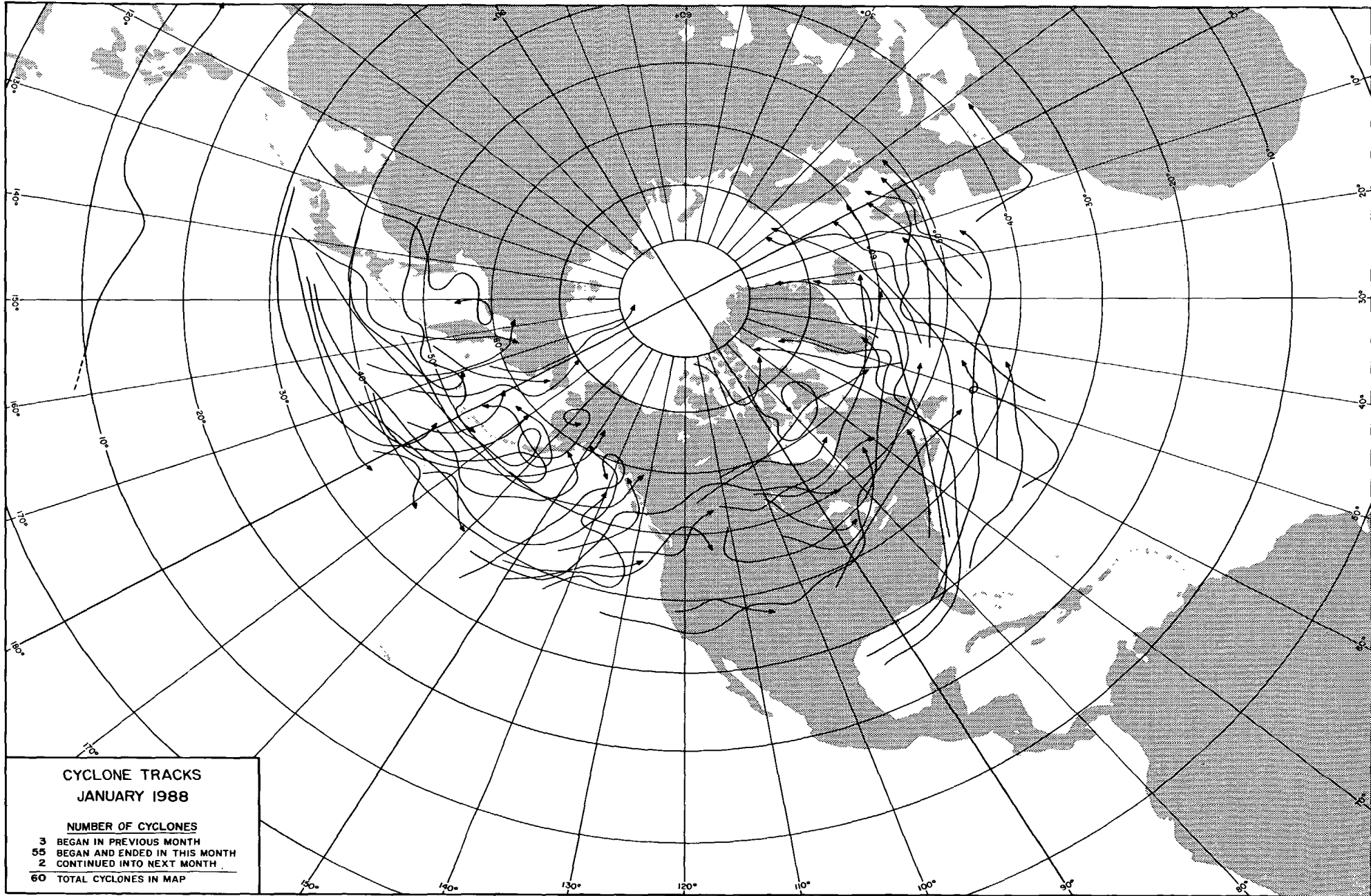
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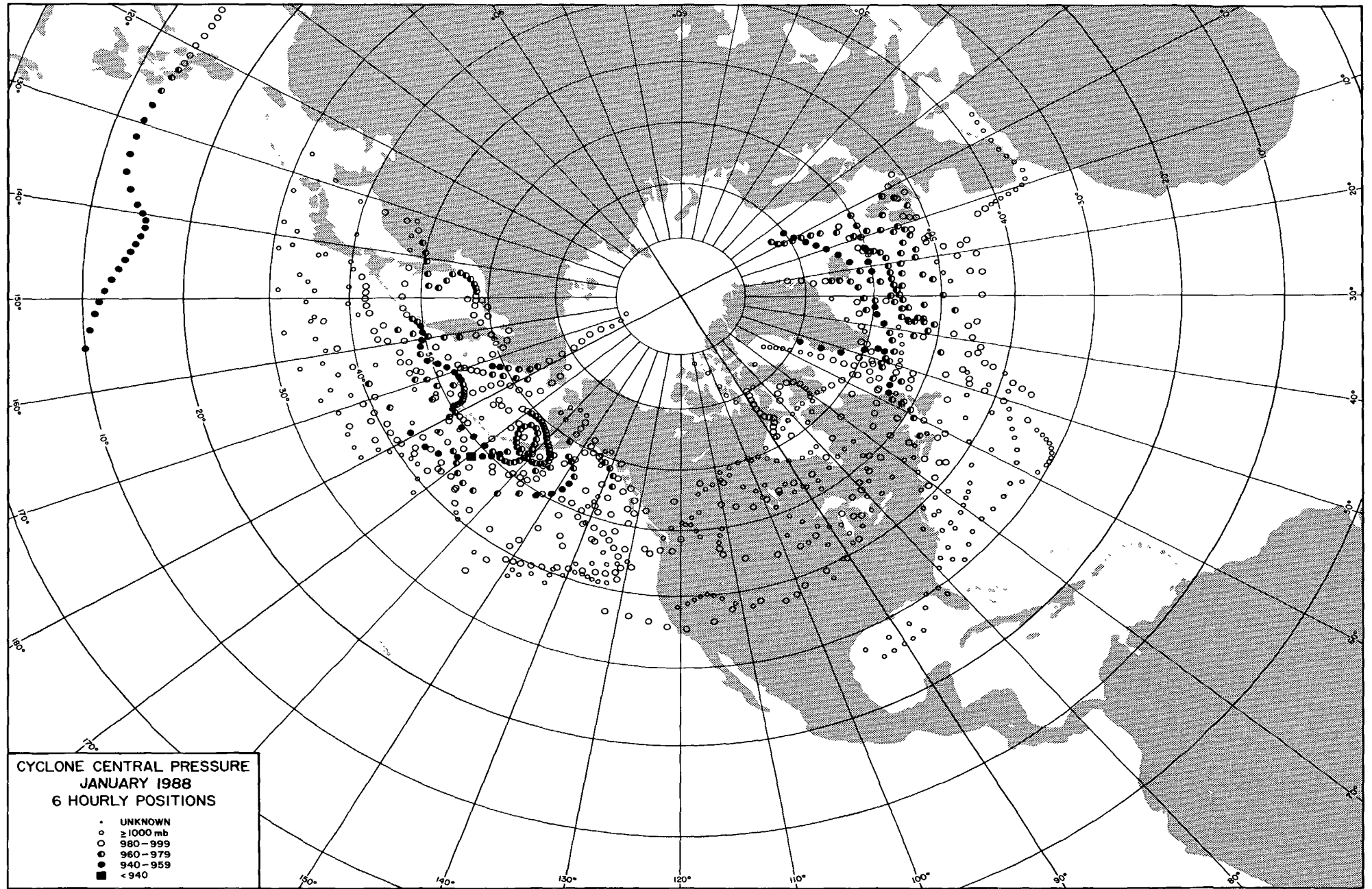
OUTSTANDING STORMS OF THE MONTH



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|-------------------------------|----------|--------|--------|--------|-----------|-----------|-----------|-----------|------------|
| ● COMPLETE REPORT RECEIVED | ● 1AL | ● 7DE | ● 14KS | ● 21MN | ● 28NJ | ● 33OH | ● 39SD | ● 44VA | ● 49AK(SE) |
| ○ PRELIMINARY REPORT RECEIVED | ● 2AZ | ● 8FL | ● 15KY | ● 22MS | ● 29NM | ● 34OK | ● 40TN | ● 45WA | ● 50HI |
| ○ REPORT NOT RECEIVED | ● 3AR | ● 9GA | ● 16LA | ● 23MO | ● 30NY(O) | ● 35OR | ● 41TX(N) | ● 46WV | ● 51PR |
| (N) northern (W) western | ● 4CA(N) | ● 10ID | ○ 17ME | ● 24MT | ● 30NY(C) | ● 36PA(E) | ● 41TX(S) | ● 47WJ | ● 52VI |
| (S) southern (C) central | ● 4CA(S) | ● 11IL | ● 18MD | ● 25NE | ● 30NY(W) | ● 36PA(W) | ● 41TX(W) | ● 48WY | ● 53PC |
| (E) eastern (D) coastal | ● 5CO | ● 12IN | ● 19MA | ● 26NV | ● 31NC | ● 37RI | ● 42UT | ○ 49AK(N) | |
| (SE) southeastern | ● 6ET | ● 13IA | ● 20MI | ○ 27NH | ● 32ND | ● 38SC | ● 43VT | ● 49AK(S) | |

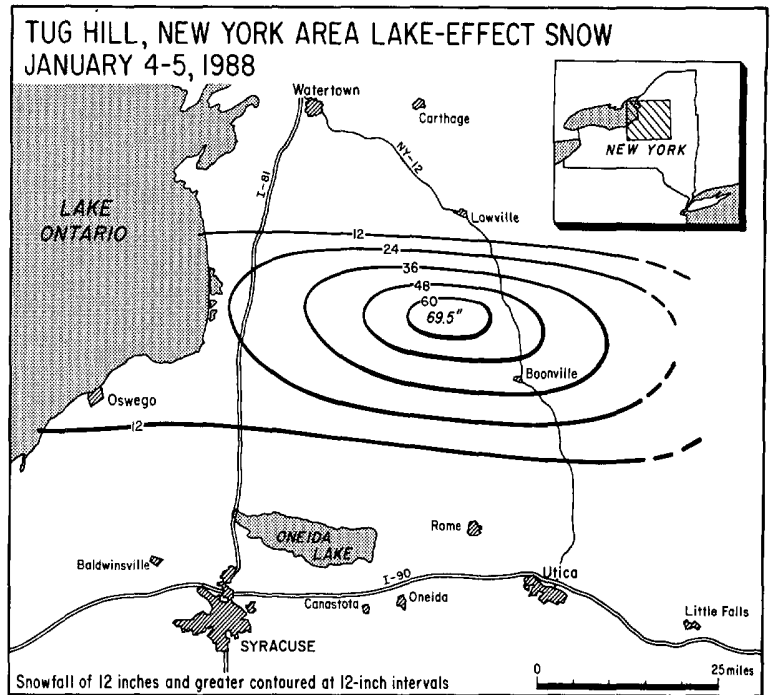




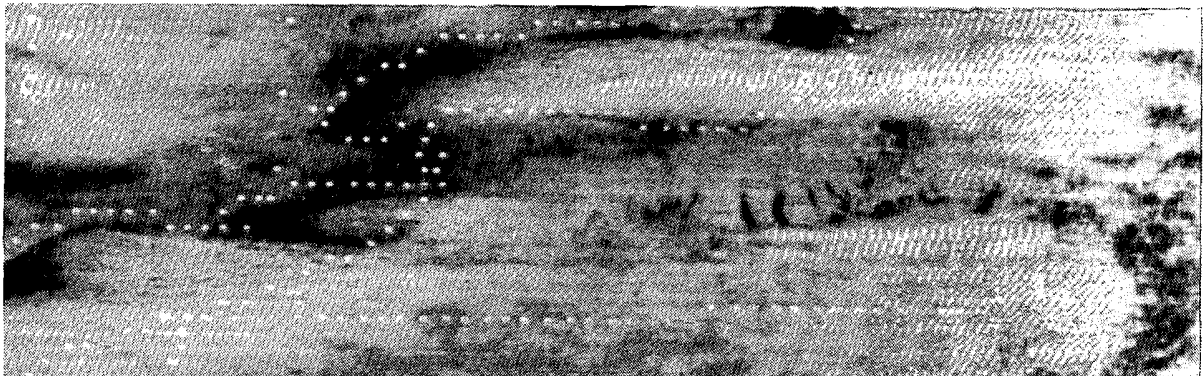


1. LAKE-EFFECT SNOW in the TUG HILL AREA of NEW YORK on January 4-5, 1988

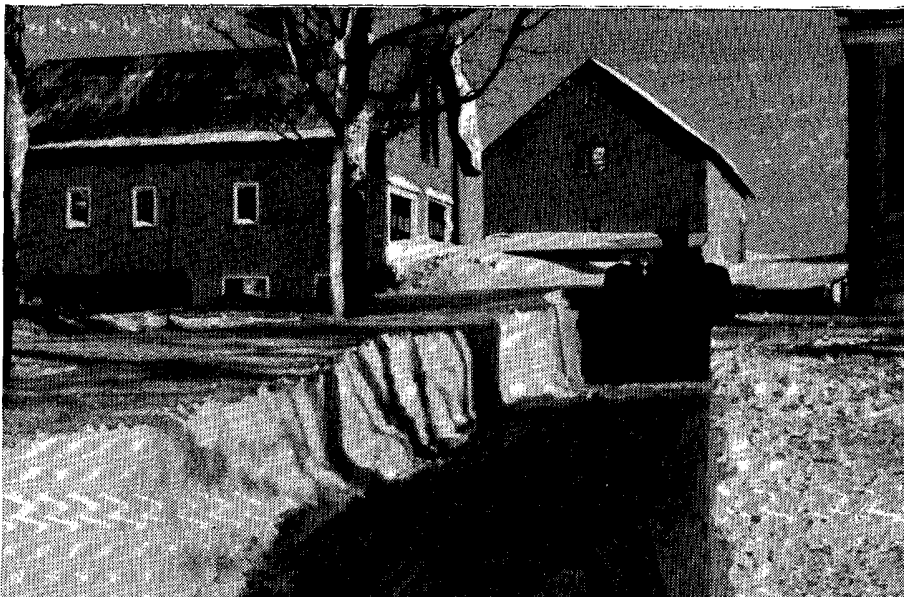
On January 4th and 5th, a lake-effect snow in a very narrow, stationary band extended east from Lake Ontario through the Tug Hill area of New York. The two-day storm deposited a low density snowfall over a localized area which is accustomed to such events, but this snowfall peaked at nearly 70 inches in amount (see map at right). The maximum measured snowfall, 69.5 inches occurred at Highmarket, about 15 miles south of Lowville. Snow amounts were only 6 inches or less 15 miles to the north of Highmarket, and the same was true about 25 miles to the south (Storm totals dropped off a bit slower to the south due to the southward migration of the snowband before it dissipated). According to Gerald Morczk, the cooperative observer at Highmarket, this was one of the biggest snowfalls at his location that he can remember -- a strong statement for a location that averages 225 inches of snowfall annually. Many area roads were closed by the snow, including Interstate 81, and many travelers were stranded for a time.



Analysis of event total snowfall in the Tug Hill area of New York on January 4th and 5th, 1988. ---Map from the NWSFO at Buffalo, New York.



A GOES 6 satellite, visible image taken at 1030EST on January 5th shows the lake-effect clouds associated with the snow over and extending east of Lakes Erie and Ontario. The narrowness of the Lake Ontario band (uppermost in the photo) emphasizes the highly localized nature of the snow event in the Tug Hill area east of the lake.



A just-cleared driveway at a Highmarket farm reveals the snow's depth about 3 days after the storm had ended. The depth, far less than the 69.5 inches that fell, gives some indication of the settling that usually occurs with low density snows that are common off of the Great Lakes. This snow had an estimated snow-to-water ratio of nearly 20:1. ---Photo by Gerald Morczk, Highmarket, New York.

---All above materials supplied by Tom Nizioł, NWSFO at Buffalo, New York.

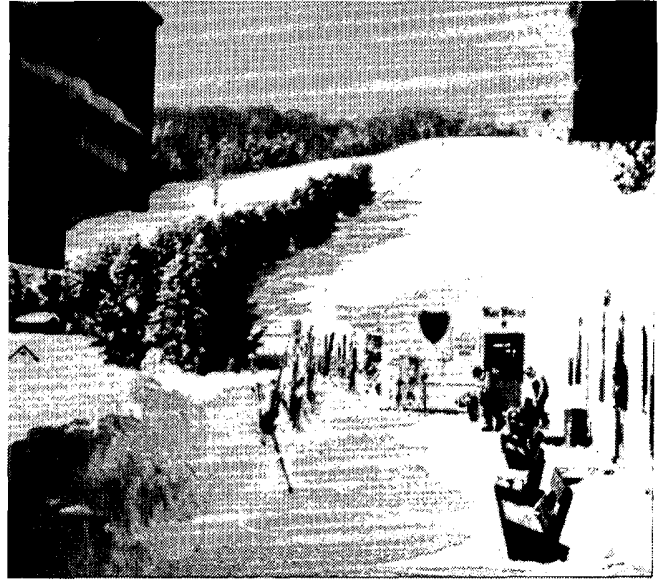
During the storm, snowfall rates of 4 inches per hour were reported, as was convective activity. Numerous reports of lightning and thunder were received from just offshore of Oswego during the night of the 4th. Strong winds occurred along the southern edge of the snowband, which is typical in well-developed lake-effect snows. Sustained winds in excess of 40 mph were also reported near Oswego on the night of the 4th. Under the band itself however, very little wind accompanied the snow, as was reported by the observer at Highmarket.



Following the storm, a rather large accumulation of snow adorns the roof and yard of this Lyons Falls home. Note the large icicles hanging from the home's eaves.



Snowbanks obscure a large portion of a tavern in Turin.



Also in Turin, the home at left is immersed in a wintery wonderland, while the Snow Ridge ski area at right was more than pleased with the fresh powder.



A snow-covered Port Leyden. Port Leyden, Lyons Falls and Turin all lie between 7 and 10 miles north of Boonville, and were along the major axis of the snowfall band.



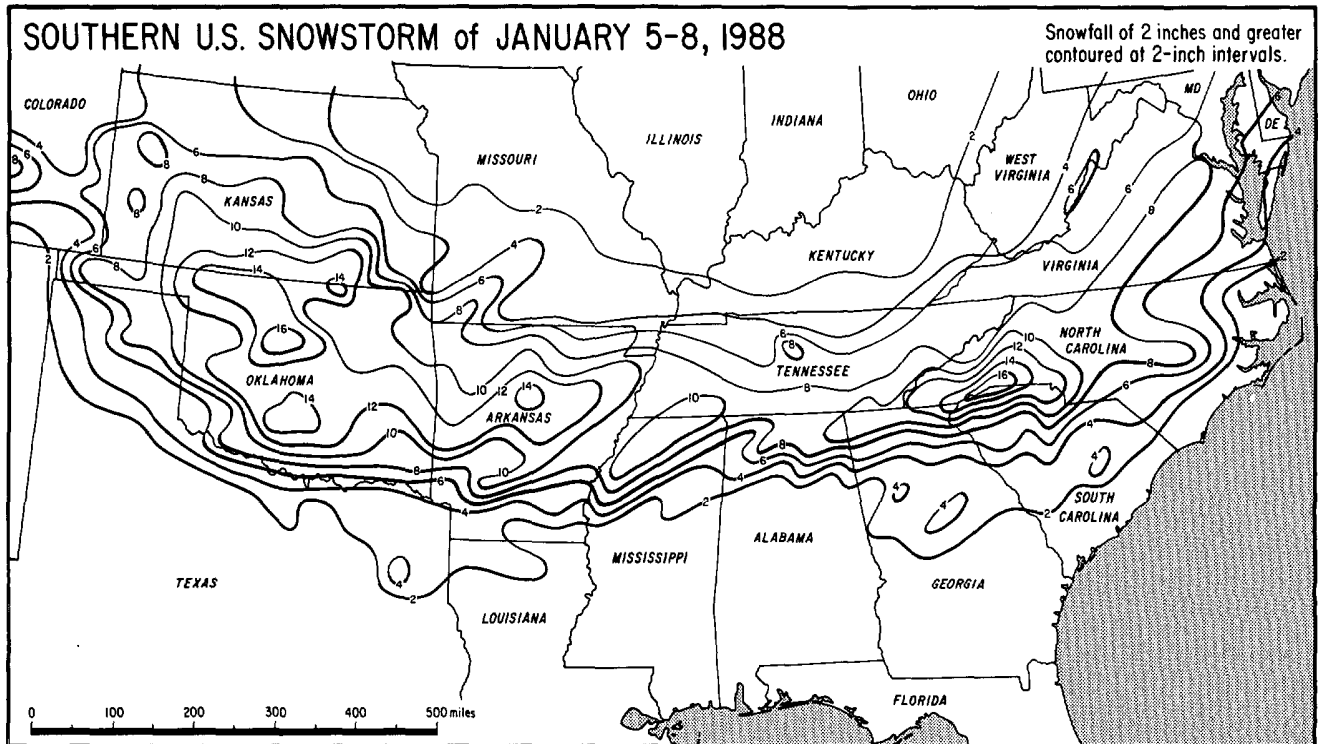
A semi negotiates an icy highway after road clearing was completed.

---All photos on pages 7 and 8 by Gorden H. Allen, The Journal & Republican, Lowville, New York.

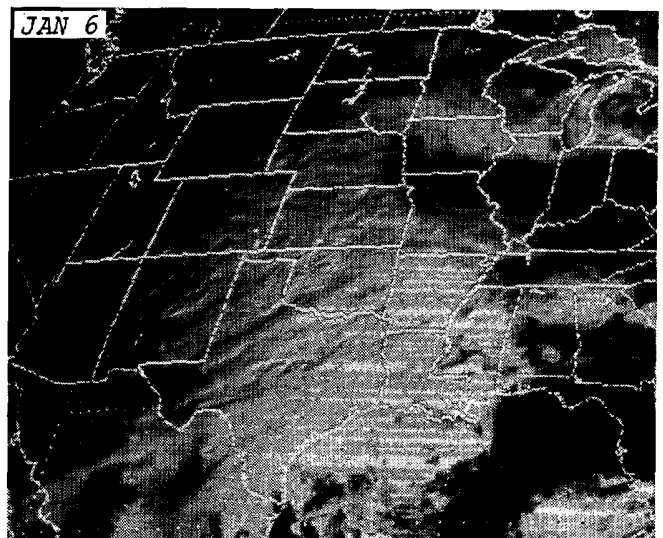
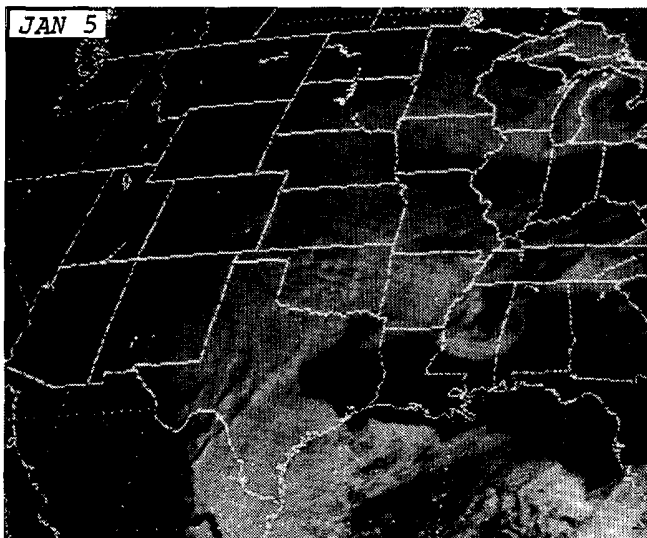
2. SNOWSTORM in the SOUTHERN U.S. on January 5-8, 1988

As an upper-level trough raced eastward across the country on January 6th through 8th, overrunning precipitation conditions formed ahead of it, producing one of the largest snowfall episodes to occur through the Southern U.S. in this century. Heavy snow was deposited in a band centered along a line from the Oklahoma Panhandle, through central Arkansas, along the southern border of Tennessee, through central North Carolina, and northeast to Delaware (see map below). Official snowfall amounts of up to 18 inches were reported from locations in central Oklahoma and along the mountainous portion of the North Carolina - South Carolina border; some unofficial amounts were even higher. Freezing rain and sleet were also widespread, especially along the southern perimeter of the snowfall area.

Occurring in an area of the country that is unaccustomed to such accumulations of ice and snow, the storm resulted in numerous and widespread business, school and road closings, power outages, and traffic accidents. Many deaths and injuries were indirectly related to the storm, and costs due to damage and cleanup were high (cold temperatures following the storm prevented a quick melt of the accumulated ice and snow). Damage of particular note was that done to the poultry industry. In Arkansas alone, 215 chicken houses collapsed under the weight of ice and/or snow, killing an estimated 3.5 million chickens. The estimated loss was about 23 million dollars. About 100 houses collapsed in each of Alabama and Texas, killing 2 million and 1.75 million birds in each state, respectively. Eighty collapsed houses in Georgia resulted in the death of about 0.5 million birds.

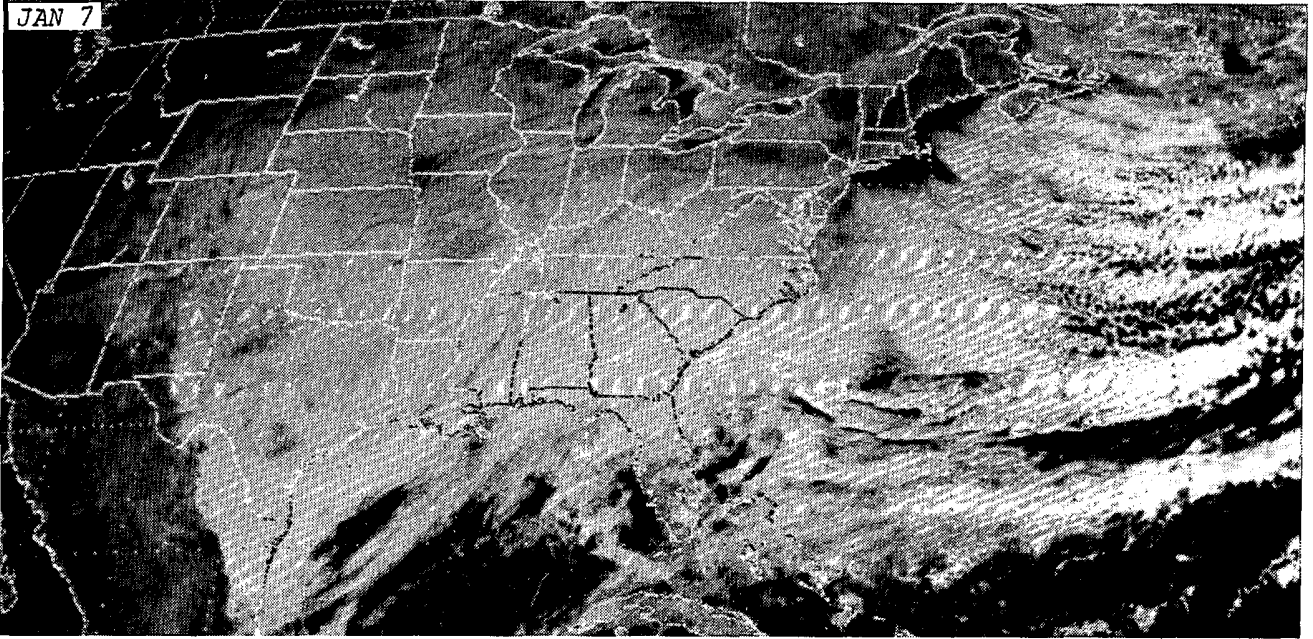


Snowfall analysis of the January 5th through 8th, 1988 storm in the Southern U.S. ---Mapped by the University of Chicago from Cooperative Observer data supplied by NCDC, and additional data and analyses supplied by NWSFO's at Norman, Oklahoma and Fort Worth, Texas.

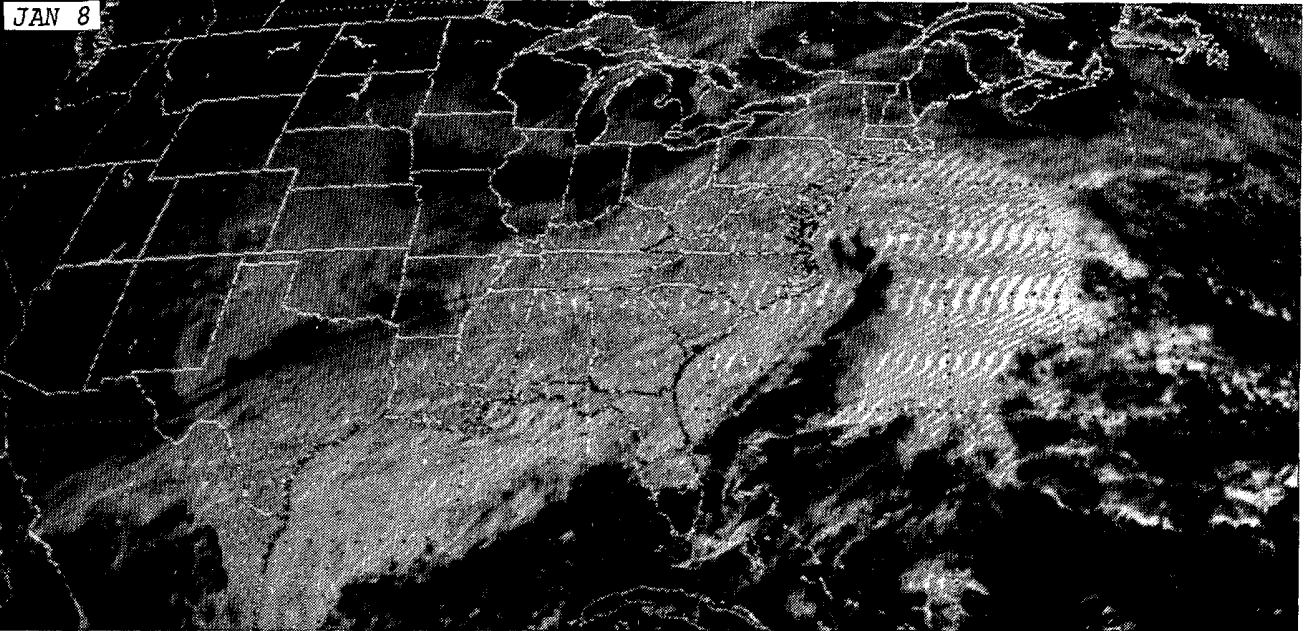


GOES 6 satellite, visible images, each taken at 0930CST on the first two days of the storm, show the clouds of the overrunning precipitation pattern as it spread eastward from the Rockies to the Lower Mississippi Valley. ---Photos from NESDIS.

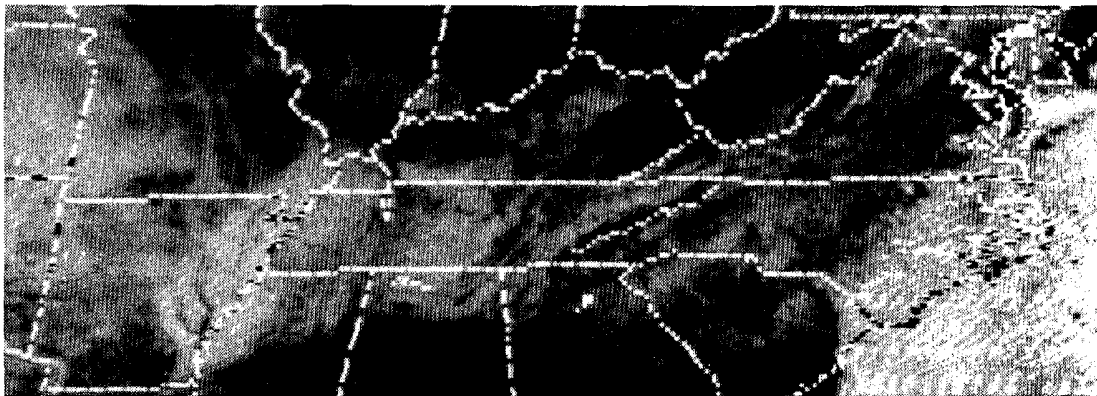
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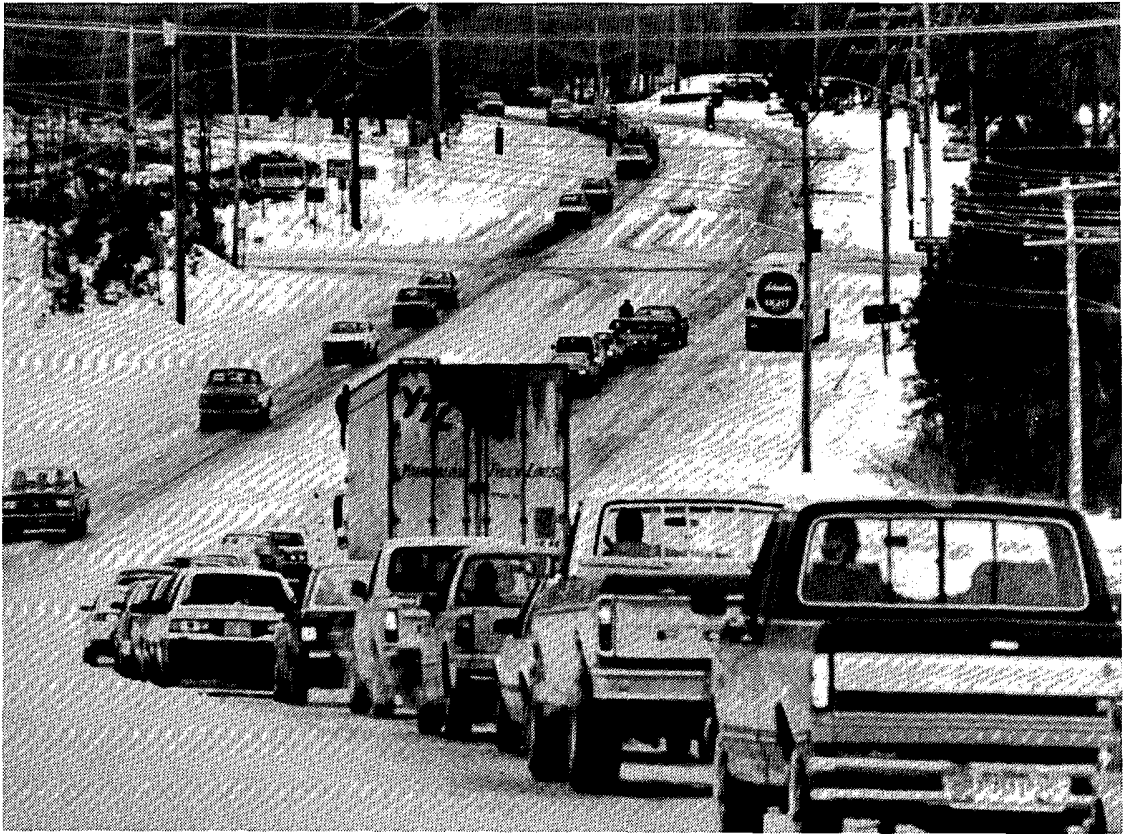


Additional satellite imagery shows the storm at 1030EST on January 7th and 8th as an organizing low pressure center moved up the Eastern Seaboard. Snowfall was experienced throughout the Northeast as well, but its impact there was far less than it was in the South.



A GOES 6 satellite, visible image taken at 1430EST on January 11th reveals the lingering snow-cover from the storm, seen here during a short period of clear skies between storms.

---All above photos from NESDIS.



Traffic backs up at an icy intersection in Fayetteville, North Carolina, a city which rarely sees a trace of snow, let alone the approximate 6 inches it received during this storm.



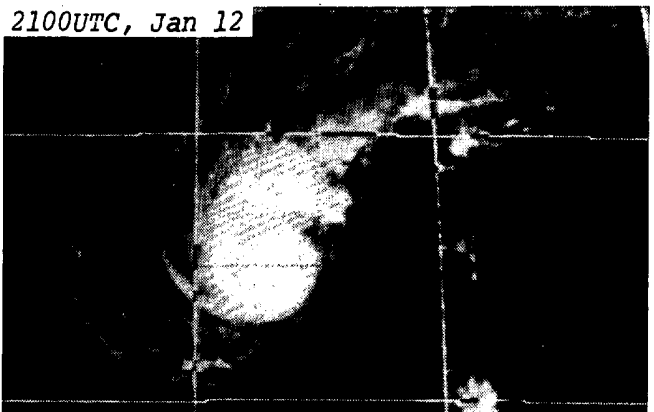
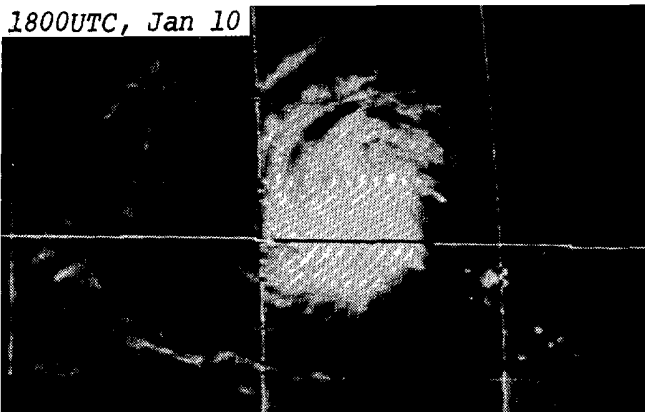
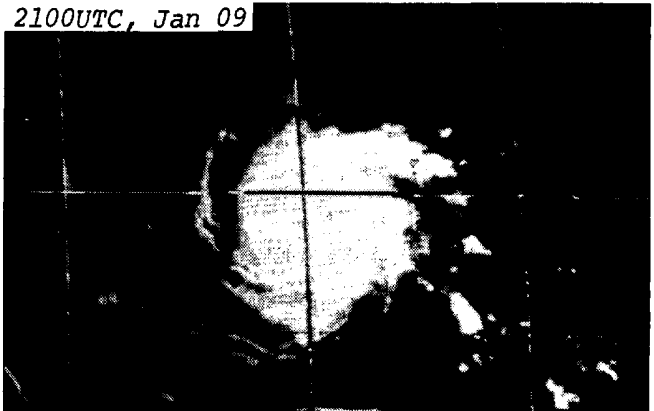
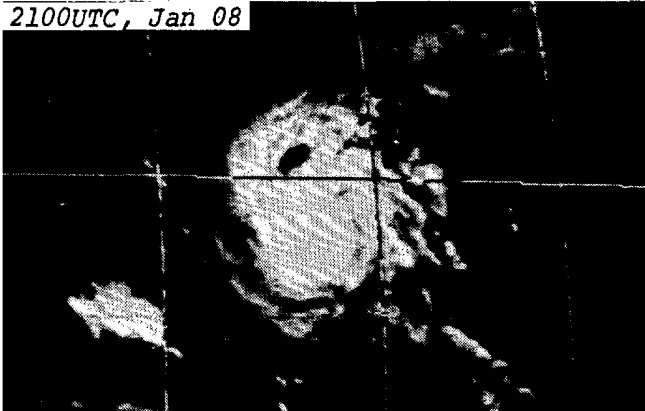
Road crews spread sand on a sloped intersection in downtown Fayetteville during the storm.

---Both above photos by Bill Shaw, Fayetteville, North Carolina.

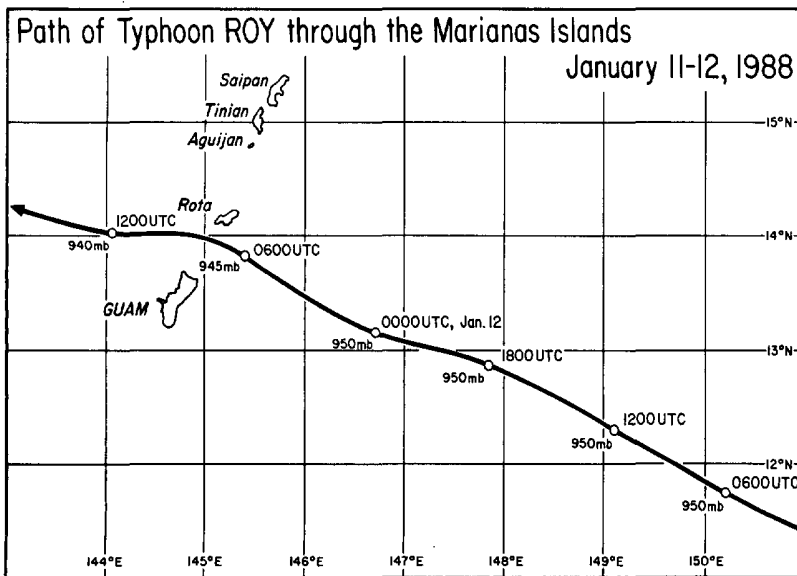
3. TYPHOON ROY in the WESTERN PACIFIC on January 7-18, 1988

On January 7th, Typhoon ROY developed within the Marshall Islands and began an 11 day, westward trek through the Western Pacific Ocean to the South China Sea where it dissipated on the 18th. Enroute, ROY passed through both the Marianas and Philippine islands, causing damage at each. ROY was a rare January typhoon which exhibited unusual strength and persistence for the time of year. It also had a mirror-image twin, Tropical Cyclone ANNE, across the Equator in the southern hemisphere.

In the Marshall Islands, high water and wave action destroyed nearly one third of the oceanside homes on Ebeye, resulting in more than 5 million dollars in damage and forcing 2000 people to seek shelter in other structures. In the Marianas Islands, ROY passed between Guam and Rota on January 12th (see map below) while producing maximum sustained winds estimated at 125 mph near its center. Rota, within these winds, sustained damage to structures and crops estimated at 4.5 million dollars. On Guam, where winds gusted locally to 100 mph or more, damage was estimated at 23.5 million dollars. Saipan and Tinian received only minor damage. There were no fatalities on the Marianas, and injuries due to flying glass and debris were few.

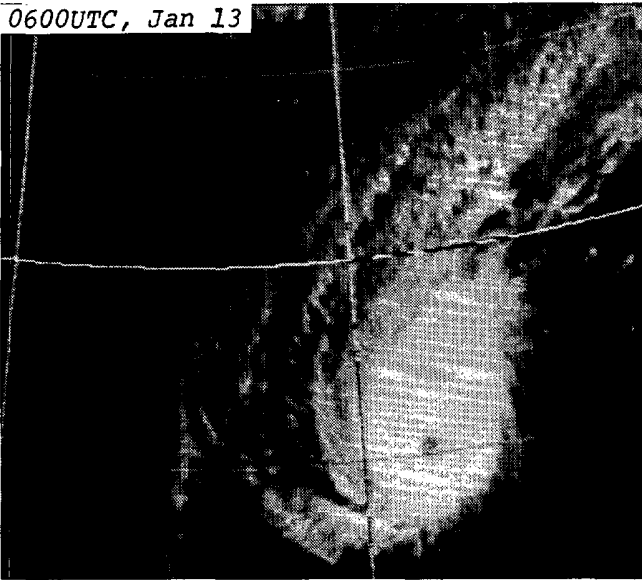


GMS-3 satellite, infrared images show ROY's swirling cloud pattern as the storm strengthened while traveling from the Marshall Islands to the Marianas. ---Photos from NESDIS.



LEFT: The path of Typhoon ROY through the Marianas Islands, with 6-hour positions and estimated minimum pressure indicated. RIGHT: A GMS-3 satellite, infrared image shows ROY exhibiting a small eye while passing through the Marianas at 0700UTC on January 12th. ---Map and photo provided by the NWSFO at Honolulu, Hawaii.

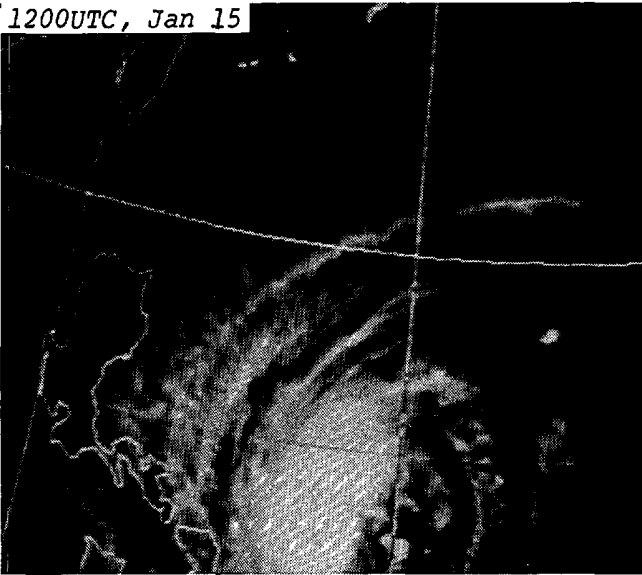
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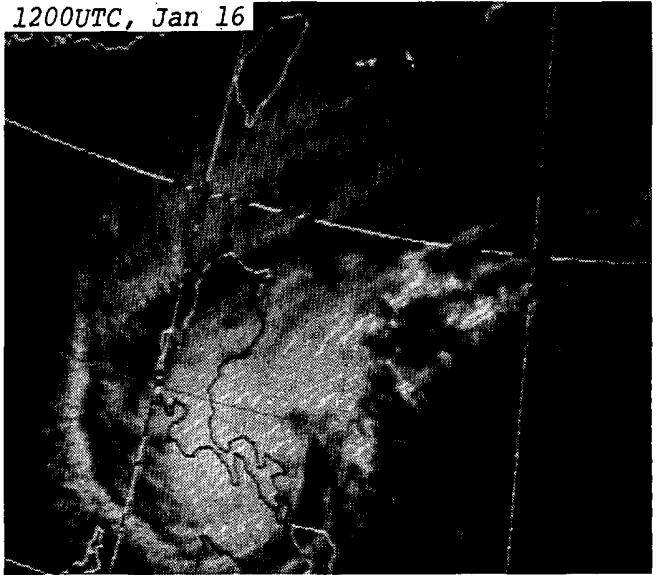
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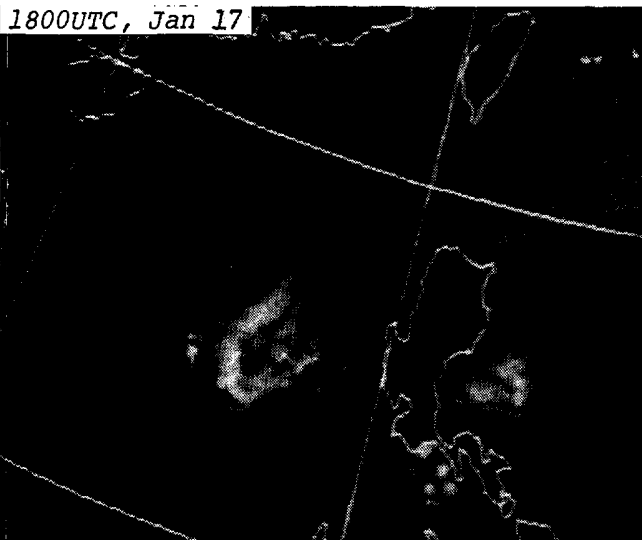
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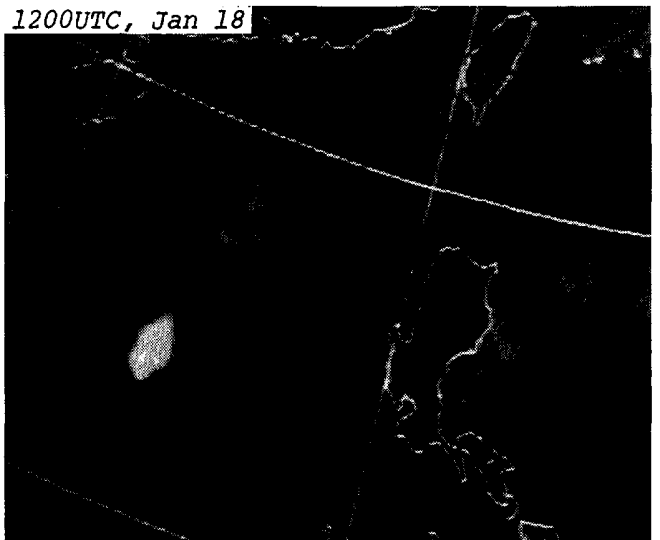
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1800UTC, Jan 17



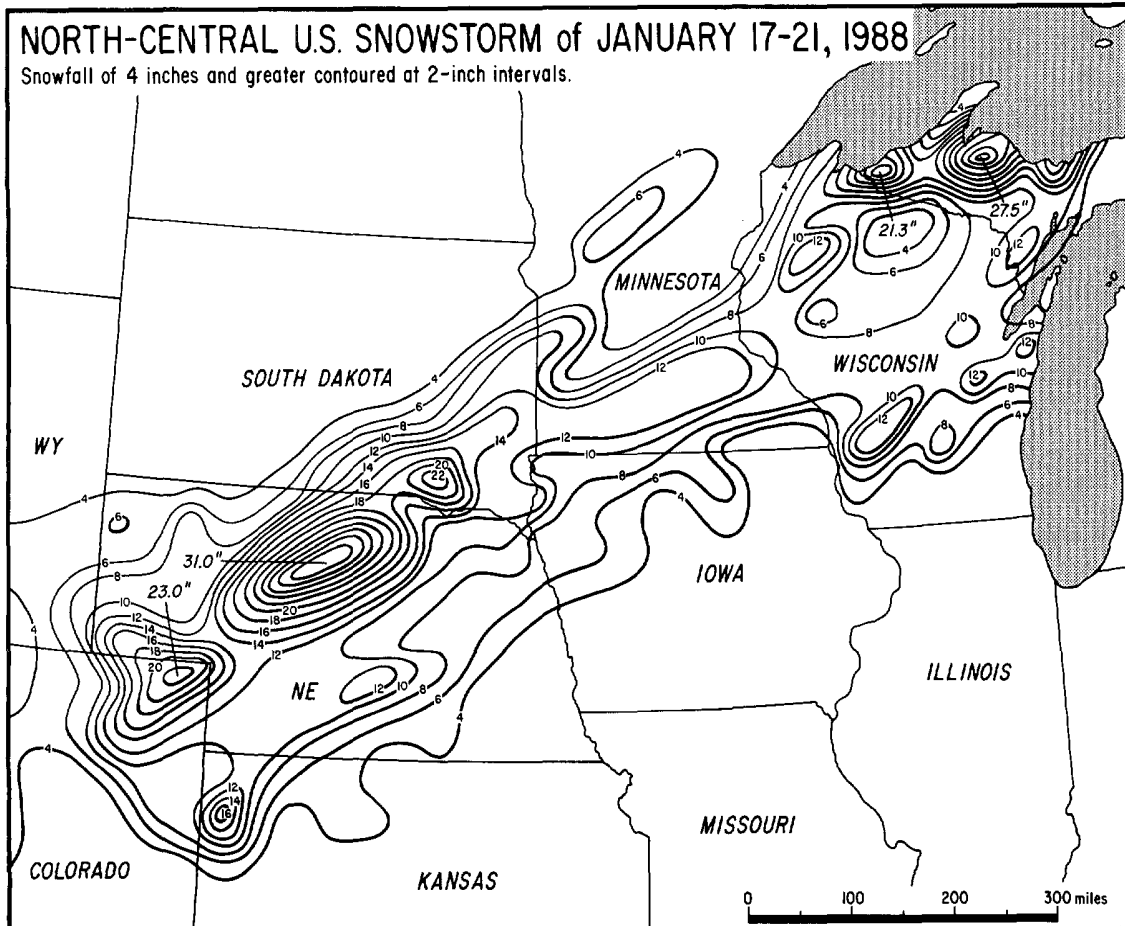
1200UTC, Jan 18



Additional GMS-3, infrared images show ROY as it made its way from the Marianas Islands, through the Philippines, and into the South China Sea where it dissipated. ---All above photos from the National Environmental Satellite Data and Information Service, Washington, DC.

4. SNOWSTORM in the NORTH-CENTRAL U.S. on January 17-21, 1988

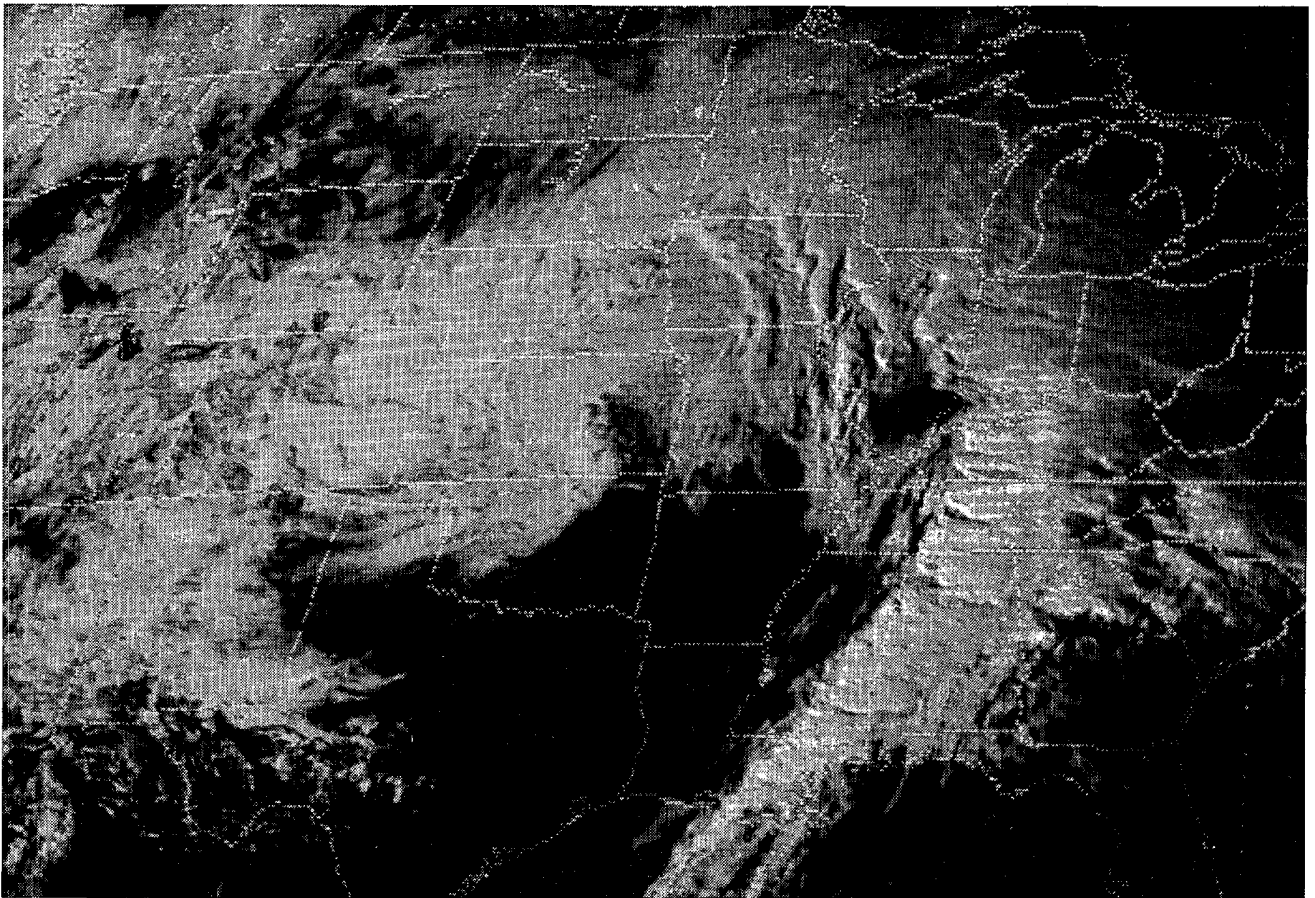
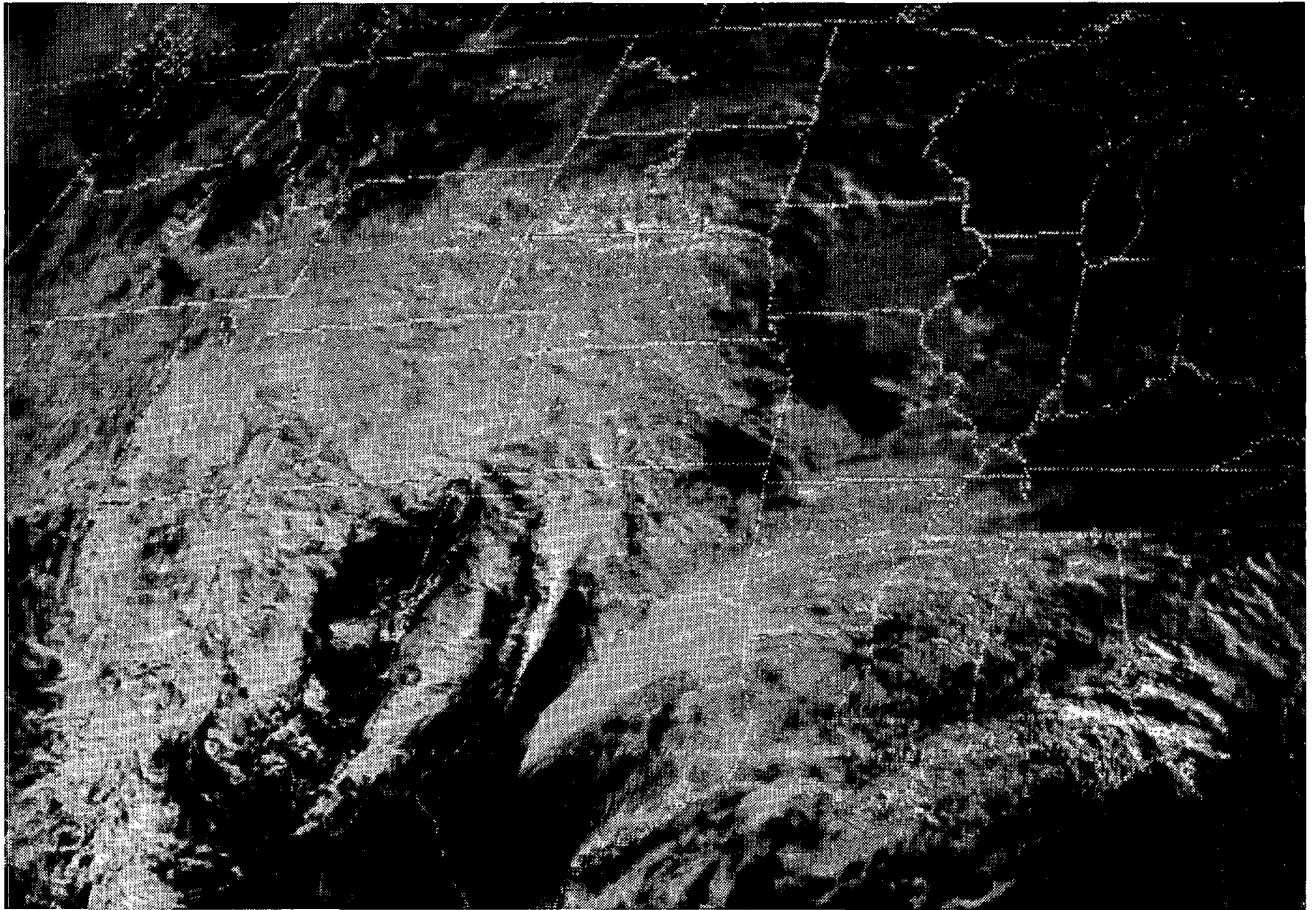
An intense low pressure system that originated over the Pacific Ocean about 500 miles west of San Francisco, dumped a heavy snow over the North-Central States as it crossed the midsection of the country, moving east from Southern California to the Oklahoma Panhandle and then northeast to the Great Lakes on January 17th to the 20th. Snowfall amounts of 18 inches and greater were common from northeast Colorado to southeast South Dakota, and similar amounts were reported from the Upper Michigan snow belt where lake-effect snow persisted well into January 21st. The maximum amount, 31.0 inches, was recorded 9 miles east-northeast of Elsmere in north-central Nebraska. There was considerable blowing and drifting of the snow as 50 mph winds swept the central plains, creating blizzard conditions with near-zero visibilities and closing many Interstate Highways along with most other highways and secondary roads. Winds were generally 30 to 35 mph elsewhere. The storm system also produced a tornado outbreak in the South, featured here as Item 5 on following pages.



Snowfall analysis of the January 17th through 21st, 1988 storm in the North-Central States. ---Mapped by the University of Chicago from Cooperative Observer data supplied by NCDC and additional data from the NWSFO at Milwaukee, Wisconsin.

A GOES 6 satellite, visible image taken at 1130PST on January 17th shows the spiralling cloud mass of the already well-organized storm system as it made landfall in Southern California. At this time, heavy snow was already beginning over much of the Rockies, and would later spread to the plains. ---Photo from NESDIS.

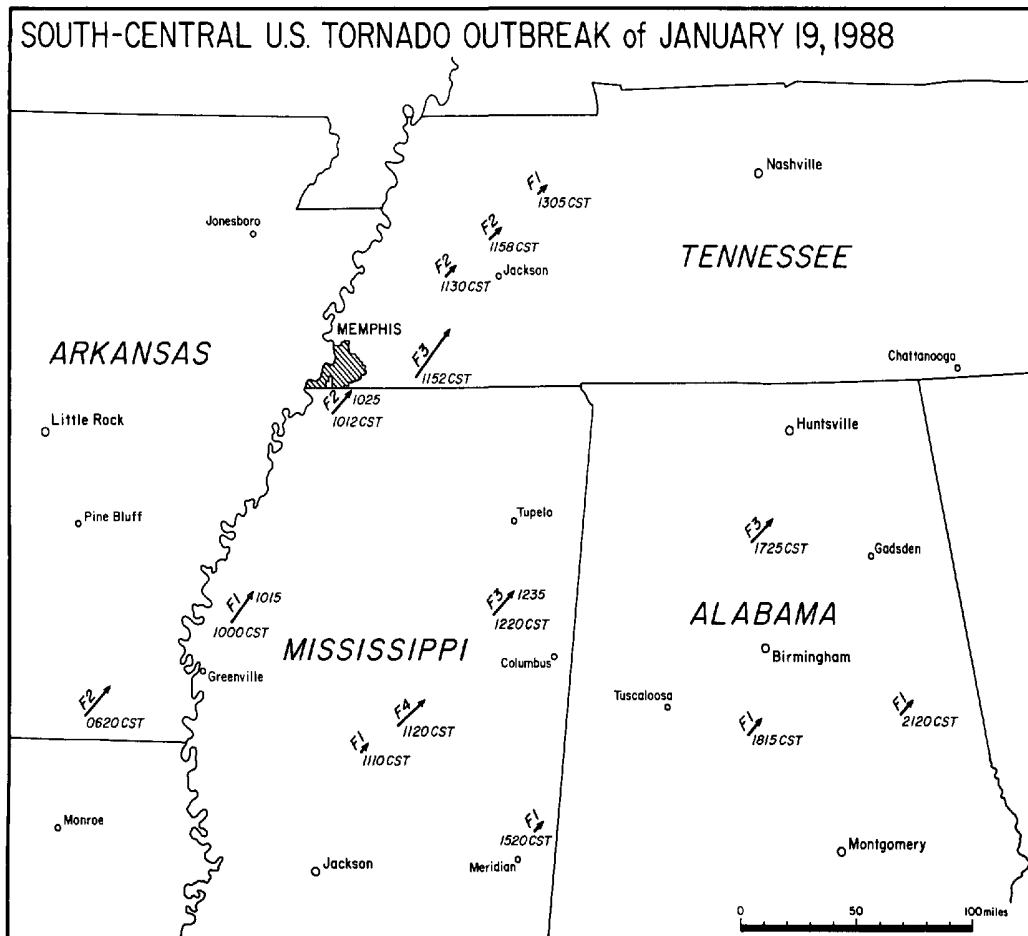




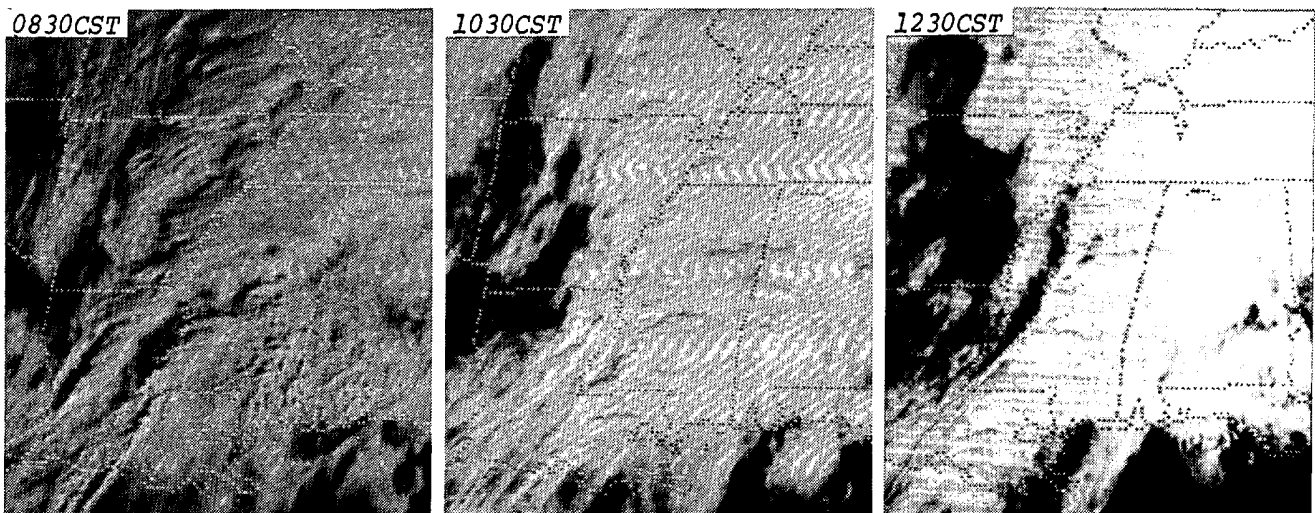
With its redeveloping comma cloud dominating the midsection of the country after crossing the Rockies, the intense winter cyclone is markedly evident in these two GOES 6 satellite, visible images taken at 1530CST each on January 18th (top) and January 19th (bottom). The line of thunderstorms from western Kentucky to southeast Louisiana in the January 19th photo was responsible for 14 tornadoes that struck Arkansas, Mississippi, Alabama, and Tennessee. ---Photos from NESDIS.

5. TORNADO OUTBREAK in the SOUTH-CENTRAL U.S. on January 19, 1988

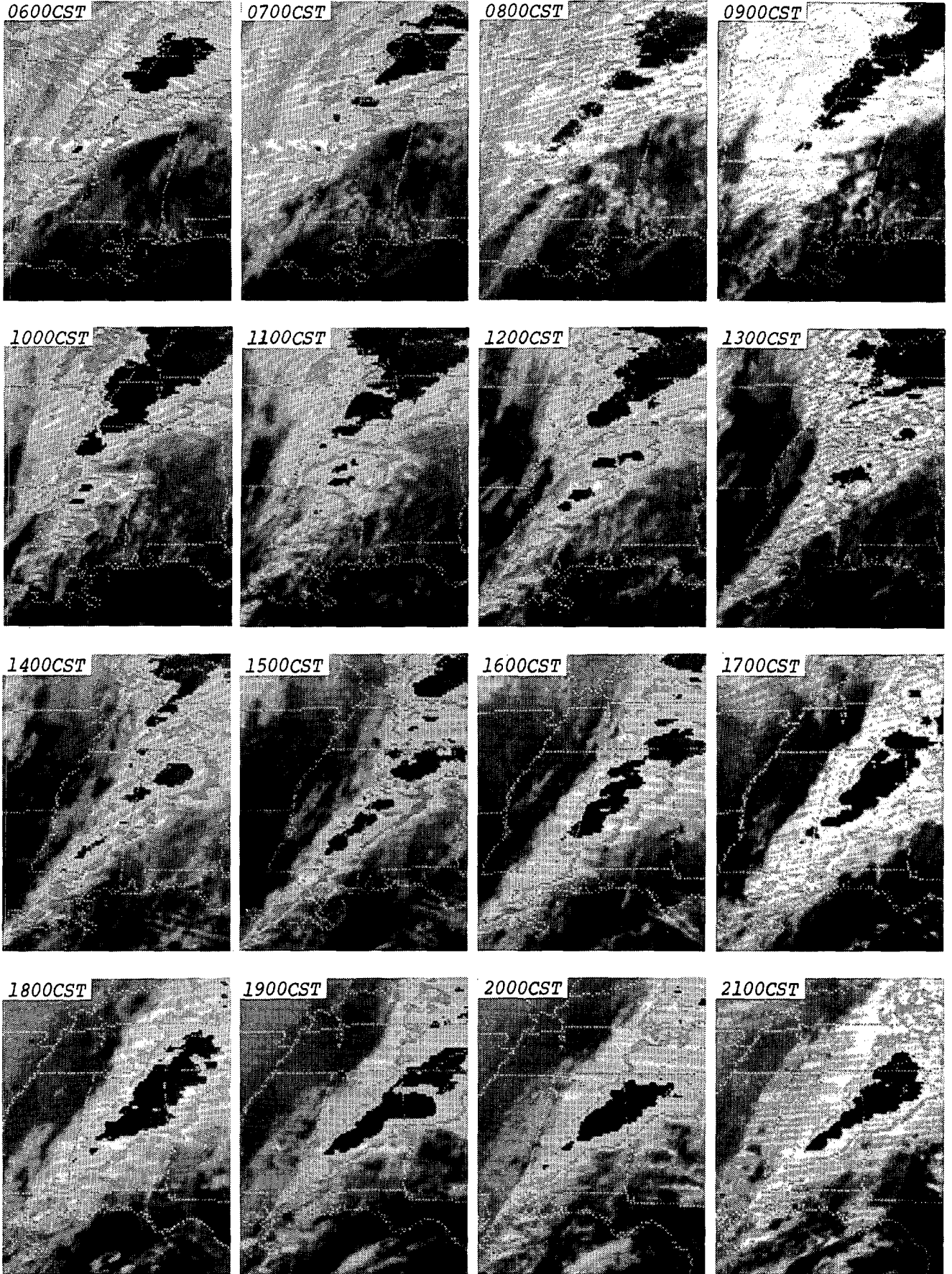
On January 19th, a strong frontal system associated with the winter cyclone previously described in Item 4 (page 14), pushed its way through the South-Central States. Intense thunderstorms formed along the front and spawned 14 tornadoes in a 4 state area. One tornado was F4 in intensity, 3 were F3, 4 were F2, and 6 were F1. By state, Arkansas had one (F2), Mississippi had 6 (1-F4, 1-F3, 1-F2, and 3-F1), Tennessee had 4 (1-F3, 2-F2, and 1-F1), and Alabama had 3 (1-F3 and 2-F1). The tornadoes carved a cumulative 113.5 miles of damage path: 47.0 miles in Mississippi, 30.5 miles in Tennessee, 21.0 miles in Alabama, and 15.0 miles in Arkansas. There were a total of 5 deaths, all in Tennessee, and 90 people were injured.



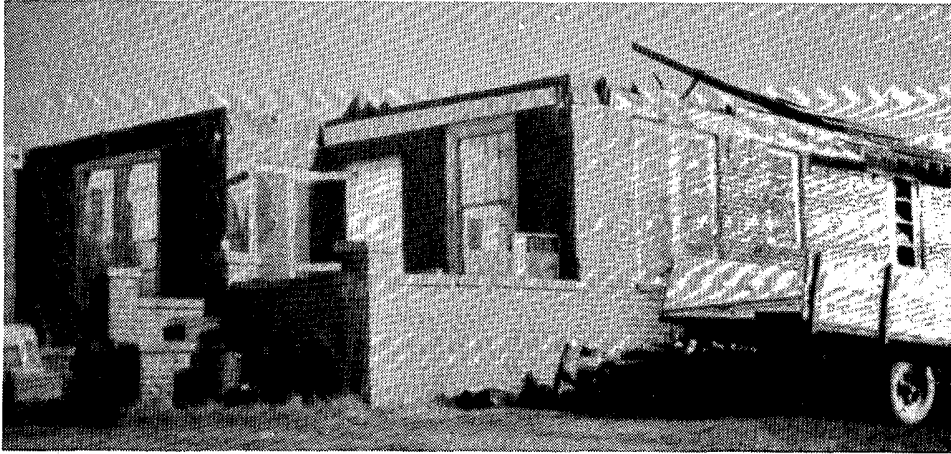
Distribution of tornadoes in the South-Central States on January 19th, 1988, with maximum F scale and touchdown times in CST indicated. ---Mapped by the University of Chicago from information provided by NWSFO's at Birmingham, Alabama; Little Rock, Arkansas; Jackson, Mississippi; and Memphis, Tennessee.



Three GOES 6 satellite, visible images taken on January 19th show the thunderstorm line during a 4-hour period of the late morning when it produced 8 of its 14 tornadoes, including the violent, F4 tornado near Kosciusko, Mississippi. ---Photos from NESDIS.



GOES 6 satellite, infrared images taken hourly from 0600CST to 2100CST on January 19th, the approximate times of the first and last tornadoes of the outbreak, demonstrate the constant evolution of cells within the thunderstorm line. The line itself often consisted of more than one row of cells, and its configuration was ever-altering. ---Photos from the National Environmental Satellite Data and Information Service, Washington, DC.

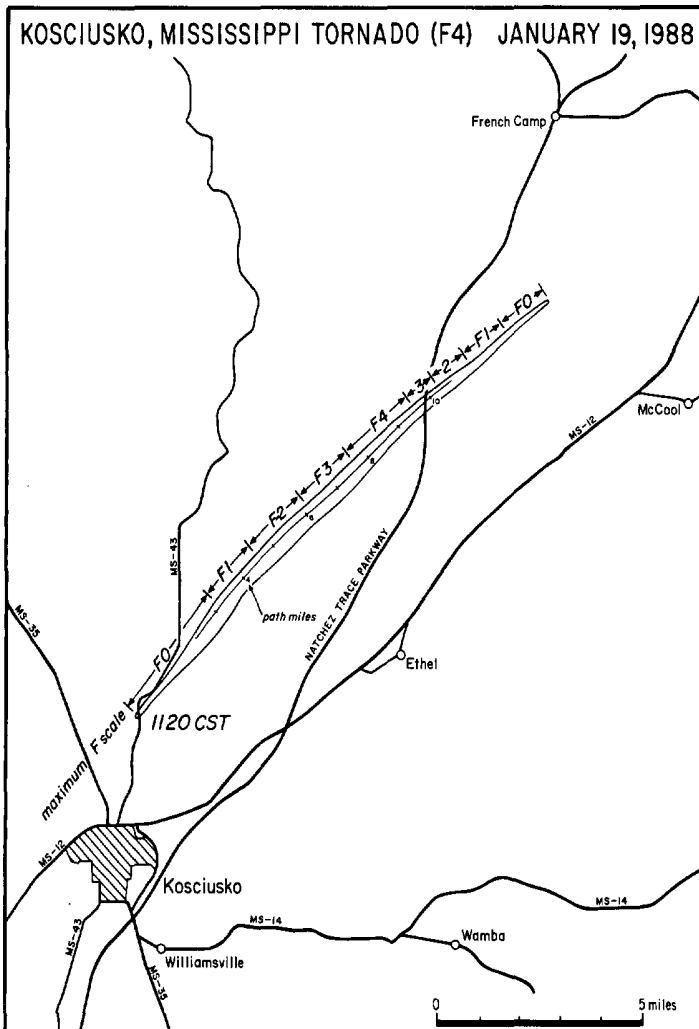


About 3 miles east of Goodman in central Mississippi, this house was unroofed by an F1 tornado. Roof debris was scattered for several hundred yards to the northeast. The parent thunderstorm later produced the strongest tornado of the outbreak north of Kosciusko. --- (NWS).

The strongest and only F4 intensity tornado of the outbreak touched down north of Kosciusko, Mississippi and carved a 13.5 mile path toward the northeast (see map below). Traveling through mostly rural landscape, the tornado destroyed only 5 homes and damaged 7 others. Also, and quite miraculously, there was only one injury and no deaths. Damage to trees however, was extensive.



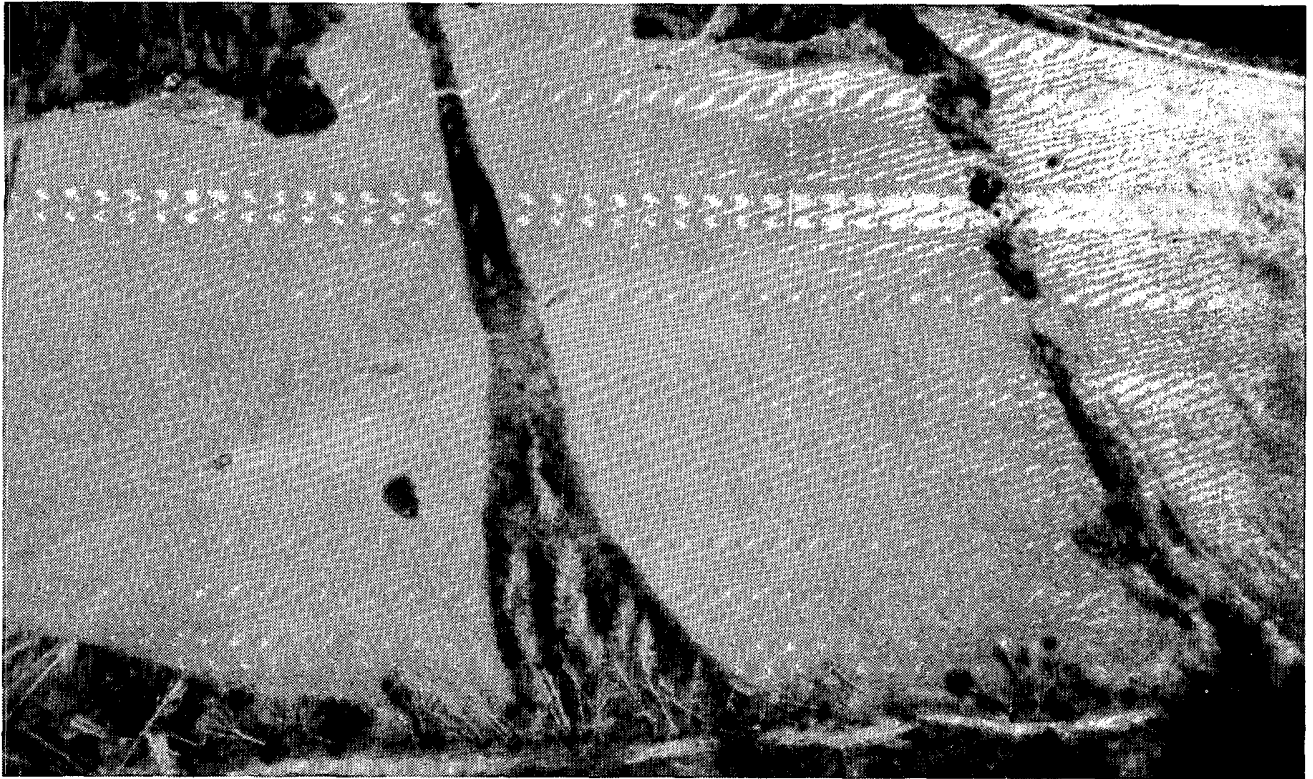
A destroyed barn, the first major structural damage inflicted by the tornado, at 3.4 miles along the path from the point of initial touchdown. --- (UC).



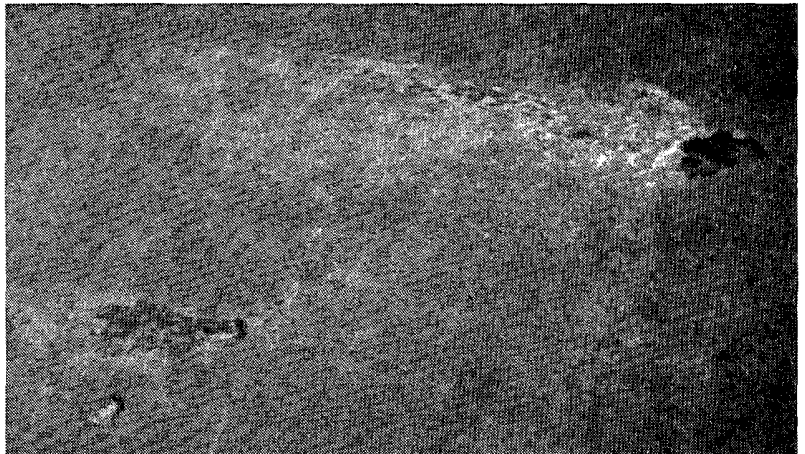
Path of the Kosciusko, Mississippi tornado of January 19th, 1988, with path miles from the point of initial touchdown and maximum F scale along the path indicated. --- Mapped from aerial survey by Duane J. Stiegler, Wind Research Laboratory, The University of Chicago.



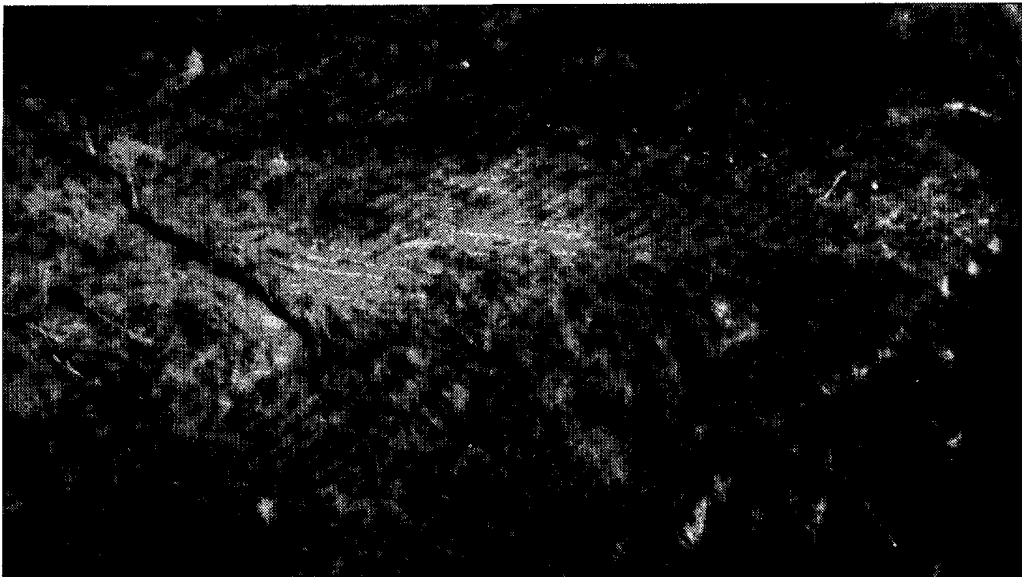
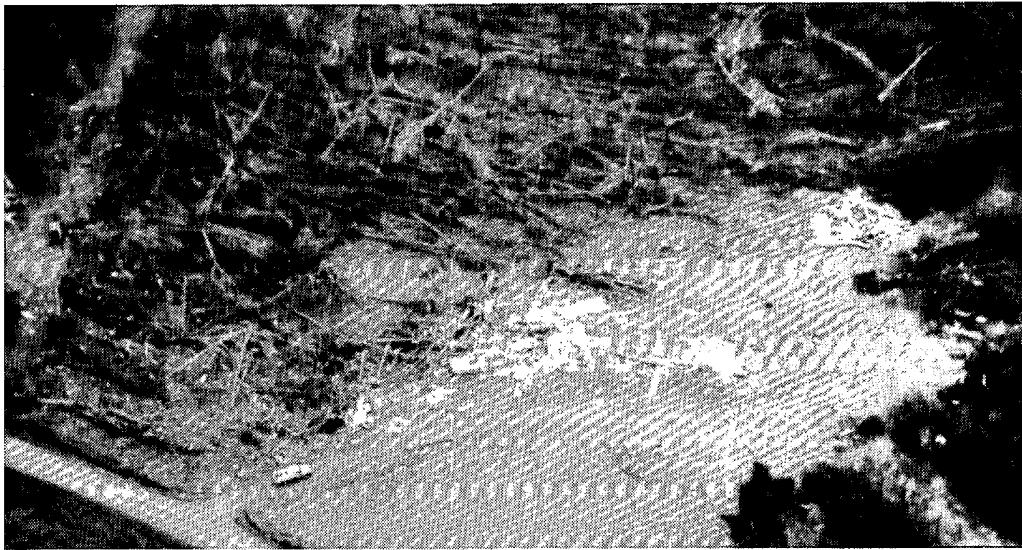
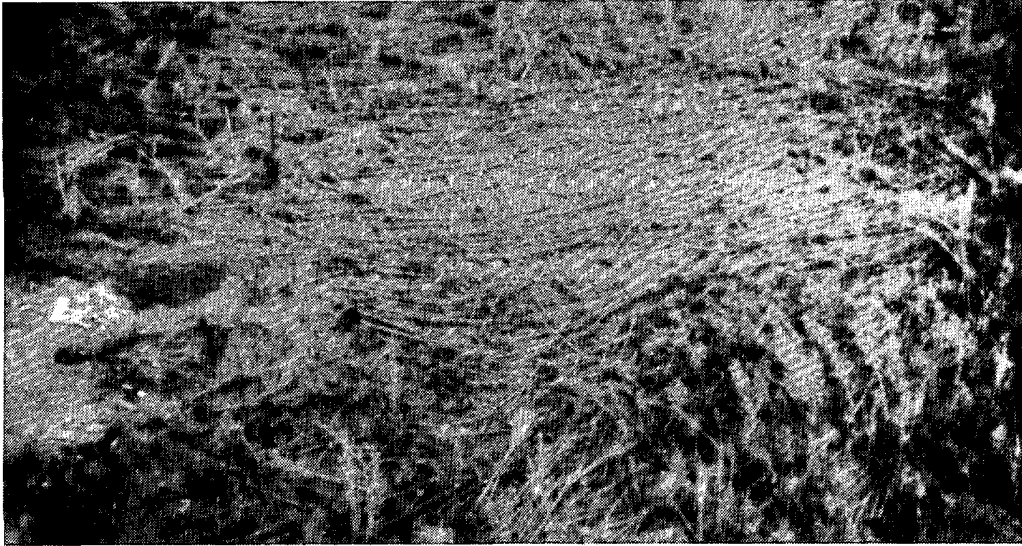
On the southern edge of the damage path at the 5.0 mile mark, one mobile home was totally destroyed while a neighbor's was spared. --- (UC).



ABOVE: The tornado's path through a field at about 4.8 miles from its start is revealed by a sudden change in the direction of blown-down grass shown by its angle of reflectance, marking the course of the tornado's center from the lower left to the upper right side of the photo. Note that large trees at the south edge of the field (bottom of photo) were all uprooted toward the tornado's center, and bales of hay at the north edge were strewn toward the vortex center as well. RIGHT: A close-up overview of divots within the field pictured above, most likely created by the impact of flying debris. ---Both photos (UC).



As shown above, damage to trees was extensive, but varied in form due to the characteristics of the trees and soil. The trees at left were mostly snapped off above ground level while the trees at right were mostly uprooted. ---Both photos (UC).



TOP TO BOTTOM: Three southeast, aerial views at 7.7 to 8.0 miles along the path show the first F4 intensity damage produced by the tornado: a stand of pine trees that were steam-rolled by the tornado's "first wind" (winds rushing in toward the vortex from the direction opposite its translation), a demolished home east of the trees, and just across the road from the house site, a field of pine saplings, some of which were plucked from the ground by the tornado. The F4 damage was confined to a narrow band very near the tornado's center, an indication that the core was very small and the maximum winds had spun tightly around it. The tornado passed from the right to the left side of each photo. ---All photos (UC).

Overhead view of a destroyed wood-frame house in the Liberty Chapel community, 9.5 miles along the tornado's path. The house was 80 years old and although some signs of brittleness were noted, it was well built. It is estimated that the structure was destroyed by F3 intensity winds. The tornado's center passed by about 50 yards to the southeast of the house, just outside the top of the photo. ---(UC).



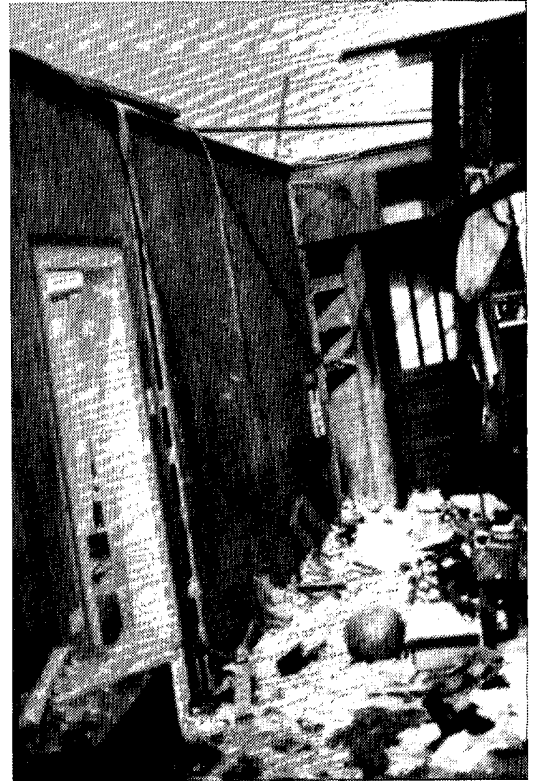
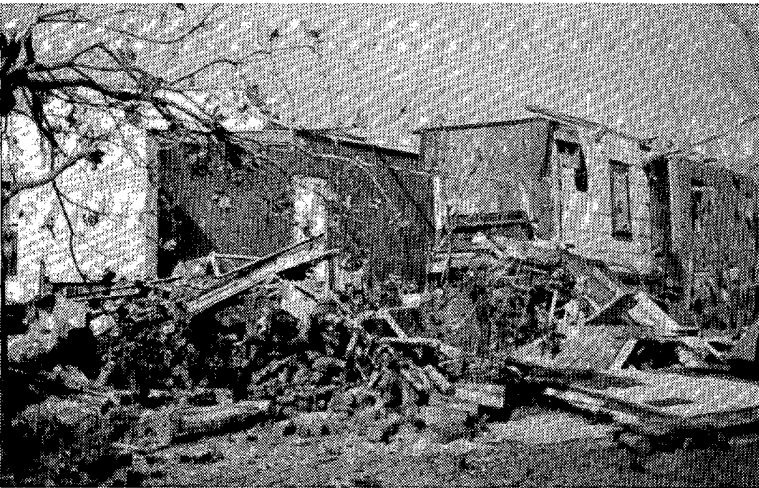
Ground-level photos above and at right show the remaining debris of the same house shown at the top of the page. The house was slid about 10 feet from west to east as it was being dismantled by the tornado's winds. A man in the west side of the house was injured; had he been in the east side his chances of survival might have been less since the crumbling house was being carried in that direction and he would have been subjected to a higher risk from flying debris. ---Both photos (NWS).



The same home site as above, seen from the road immediately to its south. ---(NWS).



Aerial views of two additional homes at Liberty Chapel, one of which was completely blown from its foundation as the tornado's center scored a direct hit on it, and a second that had many interior and exterior walls left standing. The tops of the photos are directed west-northwest (left) and southwest (right). ---Both photos (UC).



Ground-level views above and right show the southeast corner and interior hallway, respectively, of the partially destroyed home shown in the photos at the top of the page. The tornado's center passed by about 50 yards to the northwest of the house, and the home sustained this F3 damage from the southeasterly inflowing winds. Three people were huddled together in the hallway and survived uninjured. ---Both photos (NWS).



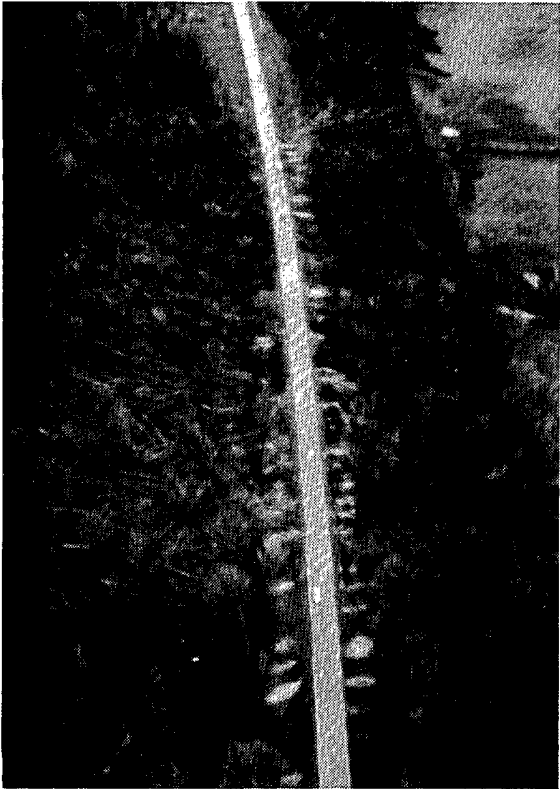
The site of a three bedroom wood-frame home that was cleaned off its cement slab by the tornado. The site is the same one shown in the aerial photos on the previous page. Upon hearing the tornado warning, the resident went next door to stay with her parents, so no one was in the structure when the tornado hit. ---(NWS).



Just northeast of the previously pictured site, debris from the house is seen spread out over several hundred yards. ---(NWS).



Uprooted bushes and snapped trees along the west edge of the Natchez Trace Parkway, at the south edge of the tornado path. ---(NWS).



Aerial views left and above show the extensive damage that the tornado did to trees along the Natchez Trace Parkway. The tornado crossed the area of the left photo from the upper right corner to the lower left. The white spots along the side of the road are sawdust piles created during the clearing of fallen trees from the highway. ---Both photos (UC).

---Photo Credits for pages 18 through 24:

(NWS)...by David Imy, NWSFO at Jackson, Mississippi;

(UC)...by Duane Stiegler, The University of Chicago.

6. HIGH WINDS over EASTERN WYOMING on January 24-25, 1988

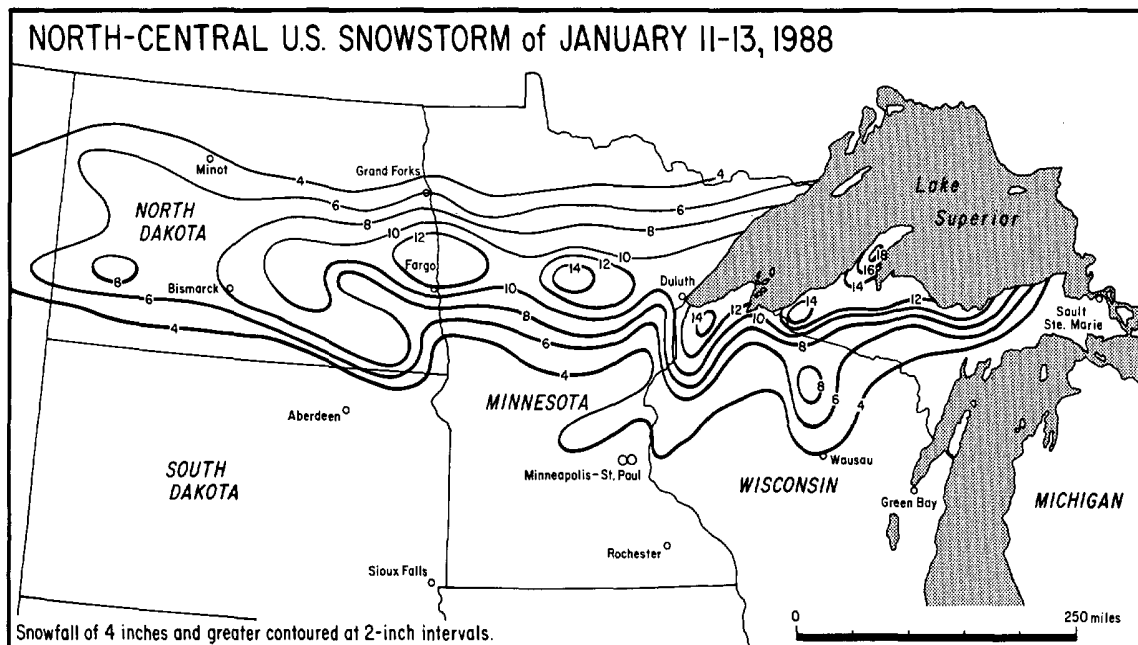
Strong surface winds of up to 72 mph were induced over eastern Wyoming by a strong upper-level flow from the north throughout the day on January 24th and into the morning of the 25th. The 72 mph gusts were recorded at Gillette between 0400 and 0600 MST on the 24th. In the Gillette area, a roof was torn off of a house, and a mobile home was flipped over onto two cars. The winds also affected portions of southwest South Dakota and the Nebraska Panhandle, and snows accompanied the winds in the Big Horn Mountains and Black Hills. Many roads were closed due to the strong winds, as well as by their associated drifts which attained 14 to 16 foot depths in southeast Wyoming.



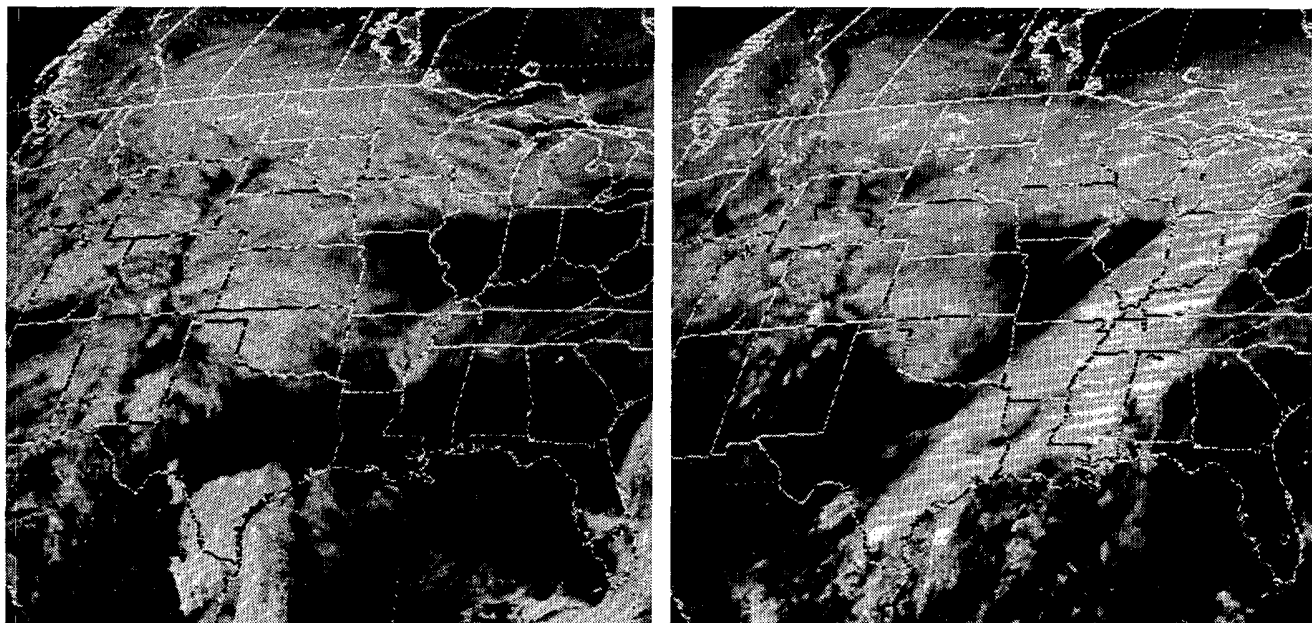
A mobile home in the Gillette, Wyoming area that was flipped over by wind gusts on January 24th. The home landed atop one car and was stopped from rolling farther by another car and a fence not seen in the photo. ---Photo by Kathy Novak, The News-Record, Gillette, Wyoming; and supplied by Hugh McRandal, NWSFO at Cheyenne, Wyoming.

7. SNOWSTORM in the NORTH-CENTRAL U.S. on January 11-13, 1988

On January 11th and 12th, a winter cyclone swept eastward out of the Rocky Mountains, passing through southern South Dakota, southern Minnesota, and central Wisconsin before turning northeast and heading into Canada. The storm dumped heavy snow in a band through central North Dakota, northern Minnesota, and the extreme northern portions of Wisconsin and Upper Michigan (see map below), as well as in mountainous areas of central Montana (not mapped). For parts of north and northwest North Dakota, including Minot, it was the first measurable snowfall received since the Winter of 1986-87. Lake-effect snow from Lake Superior contributed greatly to the amounts along the south shore snowbelt where snowfall persisted well into January 13th. Strong winds within and in areas to the south of the main snowband produced blizzard conditions with blowing and drifting snow over much of the multi-state area. The result was the usual closing of roads, schools and businesses; cancellation of mail delivery, airline flights, and other scheduled events and services; and increase in traffic mishaps.



Analysis of storm-total snowfall from the January 11th through 13th, 1988 storm in the North-Central States. ---Mapped by the University of Chicago from Cooperative Observer data supplied by NCDC and additional data supplied by NWSFO's at Bismarck, North Dakota and Milwaukee, Wisconsin.



Two GOES 6 satellite, visible images, each taken at 1330CST, show the quick-moving winter storm as it crossed the north-central tier of states on January 11th (left) and January 12th (right). ---Both photos from NESDIS.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1988

| 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 | |

1 ALABAMA

| | | | | | | | | | |
|---|--|--------|------|-----|--|--|--|--|---|
| ALZ-001-002-003-004-005-006-007-008-009-010-011-012- North, Central, and South-Central Alabama | 06 2100-07 1000CST | | | | | | | | Ice, snow |
| | A paralyzing episode of freezing rain, sleet, and snow covered much of the northern two-thirds of Alabama. Ice-laden trees fell onto power lines, resulting in nearly 100,000 homes losing electricity, some up to four days. Costly damage occurred as thousands of trees crashed onto homes, vehicles, and fences. The roofs of about 100 poultry houses collapsed under the weight of the ice and snow killing 2 million chickens. About 15 million dollars worth of chickens and chicken houses were lost. The heaviest ice accumulation of about 1 inch was over about a 100 mile wide band extending through the Tuscaloosa, Birmingham and Anniston areas. Lesser accumulations of ice occurred as far south as Demopolis, Montgomery, and Auburn. The heaviest snow accumulations from the storm fell from just north of Birmingham to the Tennessee line. Huntsville received 10 inches, Haleyville 5 inches, and Cullman 4 inches. | | | | | | | | |
| Mobile County | 18 0455CST | | | | | | | | Hail (1.00) One inch in diameter hail fell at Chickasaw. |
| Clarke County | 18 0544CST 18 0620CST | | | | | | | | Hail (1.00) Hail (1.00) Quarter size hail fell at Jackson at 0544CST and at Grove Hill at 0620CST. |
| Fayette County | 19 1410CST | | | | | | | | TSTM Wind Several awnings were blown off buildings and several trees were blown down in the City of Fayette. |
| Morgan County | 19 1550CST | | | | | | | | TSTM Wind (G60) Near the edge of Decatur high winds gusting to 60 mph broke large branches off trees. |
| Madison County | 19 1630CST | | | | | | | | TSTM Wind High winds damaged an electronics plant and blew a tractor-trailer off the road on State Highway 20 in Huntsville. |
| Greene County | 19 1650CST | | | | | | | | TSTM Wind High winds downed trees near Boligee and Mt. Hebron. |
| Madison County | 19 1657CST | | | | | | | | TSTM Wind High winds blew part of the roof of an industrial building near the Huntsville/Decatur Jetplex. |
| Tuscaloosa County | 19 1720CST | | | | | | | | TSTM Wind Trees were blown down at Echola. Also in the same area the roofs of a smokehouse, outhouse, and a barn were blown off. A mobile home was bent in the center and a barn was destroyed. |
| Cullman County | 19 1725CST | 10 440 | 0 35 | 7 4 | | | | | Tornado (F3) A tornado hopped northeast through the City of Cullman leaving a path of destruction 10 miles long and averaging 1/4 mile wide. The tornado first touched down in the Loretto Community near the intersection of County Roads 37 and 13, damaging several buildings. The tornado then touched down at a mobile home park on Alabama Highway 69 near Interstate 65 tearing apart most of the 15 mobile homes. Although the mobile homes were destroyed, none of the occupants were killed or severely injured. The tornado continued to cross a parking lot of a nearby distribution center where 50 to 75 tractor-trailer rigs were tossed like fallen dominoes. Steel sides of some of the trailers were ripped open. Closer to downtown Cullman, the tornado caused extensive damage to a shopping center, lifting off roofs and blowing out all the windows of several stores. The tornado crossed U.S. 31 destroying 13 homes and badly damaging 28 more. Then, near the intersection of U.S. 278 and State Road 69, at St. Bernard's Abby, several buildings were damaged. The tornado damaged a church at the Mt. Olive Community about 5 miles northeast of downtown Cullman before finally lifting. Total damage estimates were placed at nearly 11 million dollars. Miraculously, no one was killed. Of the 35 injuries, none were serious. A survey showed that 13 houses, 15 mobile homes and six businesses were destroyed; four houses, one mobile home and four businesses suffered major damage; five houses, four businesses and four mobile homes had minor damage; and 105 houses, three mobile homes, five apartment complexes, 18 businesses and one church suffered enough damage to fall under the "affected" category. |
| Hale County | 19 1730CST | | | | | | | | TSTM Wind Numerous trees were uprooted between Wedgeworth and Sawyerville. |
| Bibb County | 19 1800CST | | | | | | | | TSTM Wind High winds whipped through the Antioch Community about 6 miles east of Centreville causing scattered damage to roofs of houses. Also trees were blown down along State Highway 219 in Centreville. Trees and power lines were blown down one mile northwest of the Randolph Community. |

ALABAMA

| | | | | | | | | | |
|-------------------------------|------------|-------|-----|-----|--|--|--|--|--|
| Jefferson County | 19 1800CST | | | | | | | | TSTM Wind (G60) Wind gusts to 60 mph occurred in Tarrant City, a northeastern Birmingham suburb. Also torrential rain produced some brief street flooding near downtown Birmingham. |
| Bibb and Shelby Counties | 19 1815CST | 6 440 | 0 0 | 5 5 | | | | | Tornado (F1) A tornado touched down at Ashby in northeast Bibb County, then moved northeast hopping and skipping about 6 miles on into southwest Shelby County. It tore the roofs off several homes, and destroyed a garage, barn, and syrup mill. One mobile home was destroyed and several more were moderately damaged. At Montevallo, in Shelby County, trees were uprooted and a telephone company truck was blown off the road. Damage to buildings was estimated at 100 thousand dollars while timber damage was placed at 200 thousand dollars. |
| Marshall County | 19 1830CST | | | | | | | | TSTM Wind One chicken house was destroyed and another was heavily damaged in the vicinity of Albertville. |
| Shelby County | 19 1830CST | | | | | | | | TSTM Wind Two porches were blown off houses 4 miles southwest of Wilsonville. Also numerous trees and tree limbs were blown down in the same area. Large trees were also uprooted at Harpersville. |
| DeKalb County | 19 1835CST | | | | | | | | TSTM Wind Numerous trees were uprooted between Geraldine and Crossville. A chicken house was also destroyed near Geraldine. |
| Blount County | 19 1850CST | | | | | | | | TSTM Wind At Snead, two chicken houses were destroyed and a mobile home and trailer were damaged. A few trees and power lines were also blown down. |
| Calhoun County | 19 2020CST | | | | | | | | TSTM Wind At Anniston, a 60 foot high County Emergency Management Agency communications antenna was blown off the Calhoun County Courthouse roof. Several large trees were blown down at scattered locations in the same area. |
| Cleburne County | 19 2030CST | | | | | | | | TSTM Wind Trees and power lines were blown down at several locations in the north and western parts of the county. |
| Clay County | 19 2120CST | 5 100 | 0 0 | 5 0 | | | | | Tornado (F1) A small tornado touched down near State Highway 49 near the Clay/Tallapoosa county line then skipped 5 miles northeast. The tornado crossed State Highway 77 just south of the junction of State Highways 49 and 77. In the Mellon Valley Community area there were numerous trees twisted and contorted. In the same area, the tornado damaged 2 houses and destroyed a chicken house. Also destroyed were three barns and four storage houses. A church received severe damage to its roof and steeple. Damage estimates were placed at 60 thousand dollars. |
| Lee County | 19 2335CST | | | | | | | | TSTM Wind High winds ripped off part of the roof and the sides of a building at a tire plant in Opelika. Several mobile homes were damaged at scattered locations throughout the county. |
| AZZ004-008 Central Arizona | 17 | | | | | | | | High Wind A cold front associated with a strong winter storm moved into the deserts by late in the day. Winds and heavy rain combined to damage a large window at a Tempe hotel. There were also temporary power outages affecting some 10,000 customers throughout the Valley. High winds also knocked out power for several days to customers in the Payson area. |

2 ARIZONA

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1988

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS | | | | ESTIMATED ¹ DAMAGE | CHARACTER OF STORM | PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS | | | | ESTIMATED ¹ DAMAGE | CHARACTER OF STORM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | KILLED | INJURED | PROPERTY | CROPS | | | | | | | | KILLED | INJURED | PROPERTY | CROPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 ARKANSAS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Entire State | 5-7 | 05/1800 07/0600 | | | 0 | 0 | 7 | - | | Snow Storm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>The largest snowstorm of the century, so far, occurred from the afternoon of the 5th, until the morning of the 7th. The most impressive feature of this storm was its extent; all of the state was blanketed with heavy snow from west to east and from north to south. The southern one third of Arkansas also got a coating of sleet and freezing rain besides the heavy snow.</p> <p>The following is a table of snow depth reports (in inches) for the 36-hour period from 01/05 18:00 est until 01/07 06:00 est. Measurements were received from Cooperative Weather Observers, Flight Service Stations, Weather Service Offices at Fort Smith and Little Rock, Civil Defense officials, and law enforcement agencies at all levels.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>City</th> <th>Length of Path (Miles)</th> <th>Width of Path (Yards)</th> <th>Snow Depth (Inches)</th> </tr> </thead> <tbody> <tr><td>Heber Springs</td><td>16</td><td>Perry</td><td>15</td></tr> <tr><td>Danville</td><td>15</td><td>Morrilton</td><td>15</td></tr> <tr><td>Russellville</td><td>14</td><td>Clinton</td><td>14</td></tr> <tr><td>Forrest City</td><td>14</td><td>Paris</td><td>14</td></tr> <tr><td>Petit Jean</td><td>13.7</td><td>Searcy</td><td>13.5</td></tr> <tr><td>Mount Ida</td><td>13</td><td>Little Rock</td><td>13</td></tr> <tr><td>Damascus</td><td>13</td><td>Greenbrier</td><td>13</td></tr> <tr><td>Conway</td><td>13</td><td>Cabot</td><td>13</td></tr> <tr><td>Clarksville</td><td>13</td><td>Benton</td><td>13</td></tr> <tr><td>Deer</td><td>12.5</td><td>North Little Rock</td><td>12.2</td></tr> <tr><td>Jacksonville</td><td>12</td><td>Crystal Valley</td><td>12</td></tr> <tr><td>Abbott</td><td>12</td><td>Des Arc</td><td>12</td></tr> <tr><td>Sheridan</td><td>12</td><td>Malvern</td><td>12</td></tr> <tr><td>Wynne</td><td>12</td><td>Waldron</td><td>12</td></tr> <tr><td>Brinkley</td><td>12</td><td>Marianna</td><td>12</td></tr> <tr><td>Helena</td><td>11.5</td><td>Fort Smith</td><td>11</td></tr> <tr><td>Hot Springs</td><td>11</td><td>Patterson</td><td>11</td></tr> <tr><td>Airport</td><td></td><td></td><td></td></tr> <tr><td>Newport</td><td>11</td><td>Mena</td><td>11</td></tr> <tr><td>Clarendon</td><td>11</td><td>Booneville</td><td>11</td></tr> <tr><td>Pine Ridge</td><td>10.75</td><td>Pine Bluff</td><td>10.5</td></tr> <tr><td>Mountain View</td><td>10.5</td><td>Lonoke</td><td>10</td></tr> <tr><td>Batesville</td><td>10</td><td>Jasper</td><td>10</td></tr> <tr><td>Marshall</td><td>10</td><td>Ozark</td><td>10</td></tr> <tr><td>Huntsville</td><td>10</td><td>Alma</td><td>10</td></tr> <tr><td>Boggs Springs</td><td>9.5</td><td>Leola</td><td>9</td></tr> <tr><td>Stuttgart</td><td>9</td><td>Hot Springs Nat'l Park</td><td>9</td></tr> <tr><td>Carthage</td><td>9</td><td>Jonesboro</td><td>8</td></tr> <tr><td>Arkadelphia (plus 1" ice)</td><td>8</td><td>Harrisburg</td><td>8</td></tr> <tr><td>West Memphis</td><td>8</td><td>Bull Shoals</td><td>8</td></tr> <tr><td>Green Forest</td><td>8</td><td>Lead Hill</td><td>7</td></tr> <tr><td>Fayetteville</td><td>7</td><td>Blytheville</td><td>7</td></tr> <tr><td>Curdon (plus 1" ice)</td><td>7</td><td>Murfreesboro</td><td>7</td></tr> <tr><td>Star City</td><td>7</td><td>Rison</td><td>7</td></tr> <tr><td>Piggott</td><td>7</td><td>Mountain Home</td><td>6.5</td></tr> <tr><td>Harrison</td><td>6</td><td>Ash Flat</td><td>6</td></tr> <tr><td>Bentonville</td><td>6</td><td>De Queen</td><td>6</td></tr> <tr><td>Monticello</td><td>5.5</td><td>Rohwer</td><td>5</td></tr> <tr><td>Paragould</td><td>5</td><td>Walnut Ridge</td><td>5</td></tr> <tr><td>Ashdown</td><td>5</td><td>Warren</td><td>4</td></tr> <tr><td>Fordyce</td><td>4</td><td>Arkansas City</td><td>4</td></tr> <tr><td>Magnolia</td><td>4</td><td>Rosston</td><td>4</td></tr> <tr><td>Hampton</td><td>3.5</td><td>Lake Village</td><td>3</td></tr> <tr><td>Texarkana</td><td>3</td><td>Hamburg</td><td>3</td></tr> <tr><td>Stamps</td><td>3</td><td>Camden</td><td>2.8</td></tr> <tr><td>Felsenthal Lock and Dam</td><td>2</td><td>El Dorado</td><td>1</td></tr> </tbody> </table> <p>Poultry growers were hard hit by the storm. The weight of the snow and ice crushed at least 215 poultry houses (155 broiler houses, 39 for breeders, and 21 pullet houses). Eight and a half million dollars were the cost of about 3.5 million birds and \$14.5 million were the damages to the buildings. The average cost of a poultry house is in the neighborhood of \$67,000. Other structures that collapsed from the weight of the snow and ice were: awnings, sheds, metal buildings, hangars, marinas, and greenhouses. Contents of these buildings were damaged also.</p> <p>Traffic came to a standstill over many roads, especially along U.S. 71 between Mount Naylor and Mountainburg, where 125 eighteen-wheelers were stranded. Innumerable highways, roads, and streets were closed to traffic because of the snow depth.</p> <p>Many schools and businesses closed coating untold amounts! Cattle growers had problems because feed supplies could not be delivered to the animals. Also, many calves were lost due to the stress put on them by the heavy snow and harsh conditions.</p> | | | | | | | | | | | | | | | | | | | | | | City | Length of Path (Miles) | Width of Path (Yards) | Snow Depth (Inches) | Heber Springs | 16 | Perry | 15 | Danville | 15 | Morrilton | 15 | Russellville | 14 | Clinton | 14 | Forrest City | 14 | Paris | 14 | Petit Jean | 13.7 | Searcy | 13.5 | Mount Ida | 13 | Little Rock | 13 | Damascus | 13 | Greenbrier | 13 | Conway | 13 | Cabot | 13 | Clarksville | 13 | Benton | 13 | Deer | 12.5 | North Little Rock | 12.2 | Jacksonville | 12 | Crystal Valley | 12 | Abbott | 12 | Des Arc | 12 | Sheridan | 12 | Malvern | 12 | Wynne | 12 | Waldron | 12 | Brinkley | 12 | Marianna | 12 | Helena | 11.5 | Fort Smith | 11 | Hot Springs | 11 | Patterson | 11 | Airport | | | | Newport | 11 | Mena | 11 | Clarendon | 11 | Booneville | 11 | Pine Ridge | 10.75 | Pine Bluff | 10.5 | Mountain View | 10.5 | Lonoke | 10 | Batesville | 10 | Jasper | 10 | Marshall | 10 | Ozark | 10 | Huntsville | 10 | Alma | 10 | Boggs Springs | 9.5 | Leola | 9 | Stuttgart | 9 | Hot Springs Nat'l Park | 9 | Carthage | 9 | Jonesboro | 8 | Arkadelphia (plus 1" ice) | 8 | Harrisburg | 8 | West Memphis | 8 | Bull Shoals | 8 | Green Forest | 8 | Lead Hill | 7 | Fayetteville | 7 | Blytheville | 7 | Curdon (plus 1" ice) | 7 | Murfreesboro | 7 | Star City | 7 | Rison | 7 | Piggott | 7 | Mountain Home | 6.5 | Harrison | 6 | Ash Flat | 6 | Bentonville | 6 | De Queen | 6 | Monticello | 5.5 | Rohwer | 5 | Paragould | 5 | Walnut Ridge | 5 | Ashdown | 5 | Warren | 4 | Fordyce | 4 | Arkansas City | 4 | Magnolia | 4 | Rosston | 4 | Hampton | 3.5 | Lake Village | 3 | Texarkana | 3 | Hamburg | 3 | Stamps | 3 | Camden | 2.8 | Felsenthal Lock and Dam | 2 | El Dorado | 1 |
| City | Length of Path (Miles) | Width of Path (Yards) | Snow Depth (Inches) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Deer | 12.5 | North Little Rock | 12.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Clarendon | 11 | Booneville | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pine Ridge | 10.75 | Pine Bluff | 10.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mountain View | 10.5 | Lonoke | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Batesville | 10 | Jasper | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Stuttgart | 9 | Hot Springs Nat'l Park | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| West Memphis | 8 | Bull Shoals | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Fayetteville | 7 | Blytheville | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Curdon (plus 1" ice) | 7 | Murfreesboro | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Star City | 7 | Rison | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Piggott | 7 | Mountain Home | 6.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harrison | 6 | Ash Flat | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bentonville | 6 | De Queen | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Monticello | 5.5 | Rohwer | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paragould | 5 | Walnut Ridge | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ashdown | 5 | Warren | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fordyce | 4 | Arkansas City | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Magnolia | 4 | Rosston | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hampton | 3.5 | Lake Village | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Texarkana | 3 | Hamburg | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stamps | 3 | Camden | 2.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Felsenthal Lock and Dam | 2 | El Dorado | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — ARKANSAS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nevada County | 10 | Unk | | | 1 | 0 | - | - | | Low Temperature | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>Significant damage occurred to power lines and other exposed cabling! Damage estimates do not take into account the high number of traffic accidents caused by slick road conditions. There is no account of the number of injuries and deaths associated with those accidents either.</p> <p>An 85-year-old man from Preacott died of hypothermia. He was found dead in a backyard on January 11. He had been reported missing since the afternoon of the 10th.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pulaski County | 18 | 2119CST | | | 0 | 0 | - | - | | Hail (1.75) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>Personnel from the State Health Department reported hail over southwest Little Rock ranging in size from marble to golfball.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lincoln County | 19 | 0329CST | | | 0 | 0 | - | - | | Hail (0.75) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>The Lincoln County Sheriff's Office reported 3/4" diameter hail at Star City.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Crittenden County | 19 | 0600CST | | | 0 | 0 | ? | - | | Flash Flooding | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>Three inches of rain fell over West Memphis, in a 10-hour period, beginning at 0100 AM. At 0600 AM, motorists began being stranded due to high water. About 40 to 50 homes were flooded. Other homes were reported flooded at Earle and Marion.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Drew County | 19 | 0600CST | | | 0 | 0 | 4 | - | | Flash Flooding | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>Heavy rains caused flash flooding over rural areas near Monticello. A bridge was washed away along Arkansas Highway 83.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ashley County | 19 | 0620CST | 15 | 600 | 0 | 13 | 6 | - | | Tornado (F2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>A medium size tornado touched down one mile east of Crossett and moved northeast. It caused intermittent damage for 15 miles, lifting off four miles north of Hamburg. There were areas of damage about one mile wide that appeared to have been caused by a combination of tornado and rear, downdraft winds. A total of 50 residences were affected along with 140 occupants. Thirteen injuries resulted from the tornado with three of them being serious enough to require hospitalization. Damage was broken down as follows: 18 homes and 7 mobile homes were destroyed; 4 homes had major damage and 21 others only received relatively minor damage. A vocational-technical school was destroyed. Damages at the school were estimated at \$1.6 million. There was unspecified damage to timber in the area northeast of Crossett. Total damages were approximately 3 million dollars.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pulaski County | 19 | 0930CST | | | 0 | 0 | 4 | - | | Flash Flood | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>Heavy rains washed away a bridge across a small creek in Camp Robinson, at North Little Rock. Repairs to the road and bridge cost about \$30,350.00.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Saline County | 19 | 2120CST | | | 0 | 0 | - | - | | Hail (1.75) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>A storm spotter reported golfball size hail at Sardis.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 CALIFORNIA, Northern | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CAZ009 Sierra Nevada | 03 04 | 1800PST- 1100PST | | | 0 | 0 | 0 | 0 | | WINTER STORM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>A moderate winter storm dumped between 10 and 15 inches of snow over the Northern portions of the Sierra Nevada.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CAZ009 Sierra Nevada | 08 09 | 1200PST- 1100PST | | | 0 | 0 | 0 | 0 | | WINTER STORM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>Accumulations of between 6 and 8 inches fell over the northern Sierra Nevada, with 15 inches at Carson Pass.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CAZ009 Sierra Nevada | 15 15 | 0000PST- 1000PST | | | 0 | 0 | 0 | 0 | | WINTER STORM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>A vigorous winter storm dropped between 8 and 12 inches at the 7000 foot level during the morning.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1988

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (FARS) | ESTIMATED DAMAGE | | | | CHARACTER OF STORM |
|--|-------|------------------------|------------------------|----------------------|------------------|---------|----------|-------|--|
| | | | | | KILLED | INJURED | PROPERTY | CROPS | |
| CALIFORNIA, Northern | | | | | | | | | |
| CAZ003 San Luis Obispo Cty Santa Barbara Cty | 17 | 0800PST- 18 2230PST | | | 0 | 0 | 5 | 0 | COASTAL FLOODING HEAVY SURF |
| Coastal communities of San Luis Obispo and Santa Barbara Counties were pounded by heavy surf. The 25-30 foot combined seas, passage of a record low pressure center and high astronomical tides coupled to create widespread beach erosion and coastal flooding. Several boats were damaged, as well as harbor and pier facilities near the ocean. | | | | | | | | | |
| CAZ010 Sierra Nevada | 17 | 0800PST- 18 0000PST | | | 0 | 0 | 0 | 0 | WINTER STORM |
| Very strong low pressure aloft dropping down the Central California coast, entrained enough cold air and moisture to drop between 1 and 2 feet of snow at the higher elevations of the southern Sierra Nevada. | | | | | | | | | |
| CAZ002 Fremont, Milpitas | 25 | 2100PST- 26 0200 | | | 0 | 0 | 4 | 0 | HIGH WIND |
| Strong downslope winds funneled westward from the Hamilton Range into Fremont and Milpitas. Roofs were torn off of two houses and another dozen houses received minor damage. | | | | | | | | | |
| CALIFORNIA, Southern | | | | | | | | | |
| All Coastal, Mountain Zones Two Days Long | 17 | 2000pst | | | 7 | 0 | ? | ? | Winter Storm |
| An intense storm began to descend on Southern California after a period of very warm weather. Snow began falling in the Los Padres National Forest and the Los Angeles National Forest. Interstate 5 near Gorman was eventually closed to traffic as the freeway became impassable. Fog contributed to an aircraft accident near Newhall. Four people died as the plane crashed into a mountain near Newhall. M50V F38V M43V F47V. | | | | | | | | | |
| Three other people died in their automobile when it became snowbound. The vehicle was found by accident by Park Rangers rescuing two groups of Boy Scouts in the Los Angeles National Forest. | | | | | | | | | |
| As the storm moved closer to Southern California the areas of greatest impact were along the immediate coast. A direct quote from a newspaper on the 15th stated the storm of Sunday would give the region "an even better chance of rain." The storm produced little rain but did produce devastating surf. | | | | | | | | | |
| CAZ011-012-013 015-016-017-020 | 18 | 0800pst | | | 0 | 7 | 7 | 7 | Winter Storm Storm Surge |
| High tide along the coast was 7.6 feet which combined with surf of 15-20 feet. Damage was in excess of 50 million dollars to coastal property and beaches. Piers were engulfed and homes, motels, and businesses were washed into the ocean. Redondo Beach - King's Harbor sustained 25 million dollars damage. Huntington Pier sustained over 4 million dollars damage. Most of the breakwaters at the harbors were damaged. | | | | | | | | | |
| The agricultural community incurred over 15 million dollars damage. | | | | | | | | | |
| CAZ011 Coto de Caza, Orange County | 18 | 0930pst | 1.5 | 15 | 0 | 0 | 4 | ? | Tornado (F0) |
| In the exclusive community of Coto de Caza (east of El Toro) a few homes received damage. No amount was given from the management company. | | | | | | | | | |
| San Clemente, Orange County | 18 | 1000pst | .15 | 10 | 0 | 0 | 2 | 0 | Tornado (F0) |
| A baseball dugout was lifted off its foundation and carried into the air 10-15 feet off the ground and blown into the street 150 yards away. | | | | | | | | | |
| All Zones | 22 | 0900pst | | | 0 | ? | 4 | ? | High Winds |
| Winds in excess of 60 mph buffeted the entire region. 17 tractor trailer trucks were turned over on both Interstate 5 and 10. | | | | | | | | | |
| Roofs were removed from houses in the Malibu area, a mobile home was blown onto an automobile in Malibu, a billboard was blown onto a car in Chatsworth and a string of telephone poles in Ontario were toppled by the strong winds. Also winds carried dust and sand in the San Bernardino Valley reducing visibilities to less than 50 feet at times. | | | | | | | | | |
| 5 COLORADO | | | | | | | | | |
| Statewide COZ001 thru 017 | 5-6 | | | | 0 | 0 | 0 | 0 | Snow |
| Snow fell almost everywhere in Colorado. 29 inches fell in two days at Gothic, near Crested Butte in Gunnison county. Amounts in the mountains generally ranged from 10 to 20 inches. 8 to 11 inches fell at many western valley locations, including Durango, Craig, and Cedaredge. Northeast Colorado had only 1 to 4 inches, but up to 11 inches fell in the southeast; that depth was recorded at Fowler. | | | | | | | | | |
| Clear Creek Cy. COZ 004 | 9 | mrng. | | | 0 | 0 | 0 | 0 | High wind(G61) A gust of 61 mph was recorded at Echo Lake. |
| Northern, Central Mountains COZ 002-004 | 9-10 | | | | 0 | 0 | 0 | 0 | Heavy snow 23 inches of powder fell at Vail in less than 48 hours. In general, 6 to 18 inches fell in the northern and central mountains. This snowfall capped a six day period from January 5 through the 10th when a total of 54 inches of snow fell at Vail. Monarch Pass had 45 inches during the period, and most other mountain spots had 20 to 40 inches. |
| Northeast Fthls. COZ 002-004-011 | 10 | | | | 0 | 0 | 0 | 0 | High winds Strong west winds blew off and on throughout the day. Peak gusts included 85 mph two miles south of Rollinsville in Gilpin county at 0828, and 84 mph during the morning at Echo Lake in Clear Creek county. Later, a gust of 64 mph was noted in Boulder at 2130. |
| Eastern Foothills, Mountains COZ002-004-011- 014 | 11 | 0400-2000MST | | | 0 | 0 | 2 | 0 | High winds Chinook winds blew throughout the day along the foothills from Colorado Springs north to the Wyoming border. Gusts recorded included 73 mph at 1831 MST in the western part of Colorado Springs, and 67 mph at the Air Force Academy at 0600. Farther north, wind speeds reached 72 mph in the Fort Collins area at 1634, with many spots in Larimer county reporting 60 to 70 mph gusts both in the morning and the afternoon. Speeds peaked at 75 mph in Boulder at 0526. Little damage was reported; at least one window in Boulder was broken. Strong winds also howled at exposed spots in the mountains. Gusts estimated in the 60 to 100 mph range were reported at several ski areas, including Keystone, Ski Estes Park, Sunlight, Crested Butte, and Aspen Highlands. |
| Montrose County COZ003 | 11 | | | | 0 | 0 | 3 | 0 | High winds Wind gusts estimated at 55 mph blew down a sign in Montrose; damage was estimated at \$1000. |
| Gilpin, Boulder Counties COZ 002-011 | 13 | evening | | | 0 | 0 | 0 | 0 | High winds A gust of 70 mph blew at Table Mesa, near Boulder, at 1850. At 2102, a gust of 82 mph was measured near Rollinsville. |
| Larimer, Boulder Counties COZ011 | 15 | aftn, eve. | | | 0 | 0 | 0 | 0 | High winds Sky Ranch, 8 miles south of Rustic in Larimer county, noted a gust of 78 mph at 1753. A gust of 67 mph had been recorded there at 1430. Table Mesa clocked a gust of 70 mph at 2216. |
| Southern/Central Mountains, East COZ004-008-010 thru 017 | 17-19 | | | | 2 | 0 | 4 | 4 | Heavy snow, wind A snowstorm produced blizzard conditions over much of eastern Colorado on the 18th and 19th after dropping 17 inches of snow at the Purgatory ski area the previous day. The storm left 6 to 12 inches at most spots on the plains, and this combined with 40 to 50 mph winds over a long period of time to produce drifts reported as high as 30 feet in Cheyenne county. 10 foot drifts were common in many areas. The storm closed roads, including Interstates 25, 70, and 76. Many schools shut down for as long as a week. Travelers were stranded in several towns. Power outages were widespread, and mail and dairy operations were curtailed. A person died after working outside in Cheyenne county, and a man died in Kit Carson county while driving a tractor and removing snow. In El Paso county, strong winds toppled a bank of lights at a baseball field in Calhan. The storm was especially bad in extreme northeast Colorado, where the blizzard was judged to be the worst storm in the area since 1977. Snow also fell in the mountains; Wolf Creek Pass had 36 inches in two days. Amounts were generally 1 to 2 feet in the southern mountains, 10 to 20 inches in the central mountains, and 3 to 8 inches in the northern Rockies. |

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1988

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS | | ESTIMATED ¹ DAMAGE | | CHARACTER OF STORM |
|---|--|-----------------------|------------------------|-----------------------|----------------|---------|-------------------------------|-------|--|
| | | | | | KILLED | INJURED | PROPERTY | CROPS | |
| COLORADO | | | | | | | | | |
| Eastern Foothills, Northeast Plains COZ002-004-011-012-014 | 23 morning | | | | 0 | 3 | 6 | 0 | High winds buffeted northeastern Colorado. Hardest hit were the foothill areas from Colorado Springs northward, but the winds also caused problems farther east on the plains. The strongest gust reported at lower elevations was 105 mph on Table Mesa, near Boulder, at 0534 MST. Gusts of 80 to 90 mph were noted in other sections of Boulder at about the same time. At 0540, winds caused a partially constructed viaduct to blow down in east Boulder. Nine unanchored concrete girders, each weighing 45 tons, were blown off their supports. A truck and a car plowed into the wreckage; each driver suffered minor injuries. Damage was estimated at \$150,000. The winds in Boulder broke windows and damaged power lines and transformers. Power outages were widespread, and traffic lights were downed. In Clear Creek county, gusts peaked at 94 mph at Echo Lake. In Georgetown, winds blew off part of a house roof; this sailed across a street and severely damaged a house on the other side. Farther east, cars were blown off Interstate 70 near Morrison, and a tractor trailer and a mobile home were knocked over. In Lakewood, an electric company crewman was burned while replacing a power line. Around 0600, a 92 mph gust was clocked at the Jefferson county airport; shortly afterward, the site anemometer was blown down. Other places along the foothills from El Paso county north to Larimer county had gusts in the 60 to 80 mph range, mostly between 0300 and 0800 MST. The winds spread east onto the plains; Fort Morgan had a 62 mph gust at 0750. A cold front moved through eastern Colorado during the afternoon. Although winds decreased a little behind the front, they were still strong enough to cause blowing snow that forced some road closures. Interstate 70 was closed from Aurora to Limon for a time due to blowing snow. Strong winds also blew in the mountains; Mary Jane ski area clocked a gust of 78 mph at 0705. On the Continental Divide over 12000 feet above sea level, a gust of 120 mph was recorded at Mines Peak. |
| Eastern Foothills, Northeast Plains COZ002-004-011-012-013 | 25 aftn. | | | | 0 | 0 | 0 | 0 | High winds Winds reached 96 mph at 1612 MST two miles south of Rollinsville in Gilpin county. However, this figure was topped at Echo Lake, where a gust of 109 mph was noted at 1530. Fort Collins had 68 mph at 1600. Strong winds blew frequently across northeastern Colorado during the week ending on January 25. They combined with snow to cause many road and school closures during the period, and many accidents were caused in part by wind gusts and icy roads. |
| Mountains COZ002-004-008-010 | 30-31 | | | | 0 | 0 | 0 | 0 | Heavy snow 6 to 18 inches of snow fell in the mountains over this two day period. Even more .20 inches fell at Gothic. |
| CONNECTICUT | | | | | | | | | |
| CTZ05-06, Coastal portion | 04 Morning | | | | 0 | 0 | 0 | 0 | Heavy snow Snow accumulation ranged up to 6 to 8 inches along the coast to only one inch in the northwest hills of the state. The heavy snow disrupted activities and closed schools for the day. |
| CTZALL, Statewide | 08- Afternoon and eve. 09 Early morning | | | | 0 | 0 | 0 | 0 | Heavy snow Heavy snow accumulated up to 6 to 10 inches across all of the state. The heavy snow resulted in early closing of schools and businesses and many commuters got an early start home avoiding any major problems with the evening rush hour. |
| CTZ01-02-03-04 Central and northern portion of state | 25- Afternoon and eve. 26 Early morning | | | | 0 | 0 | 0 | 0 | Heavy snow Heavy snow accumulated up to 6 to 12 inches across the area. The snow was wet and heavy especially in the central portion of the state sticking to trees and power lines. Up to 10,000 electric customers across the state lost power for up to several hours during the storm and in some cases up to twelve hours. The southern portion of the state had a change to rain which held down the snow accumulation to a few inches in that area. The usual poor road conditions caused cancellation of evening activities and closed schools. |
| DELAWARE | | | | | | | | | |
| DEZ001 | 7 | 1900EST | | | 0 | 0 | 3 | 0 | Winter Storm |
| DEZ002 | 7 | 2100EST | | | 0 | 0 | 3 | 0 | Winter Storm |
| DEZ003 | 7 | 2200EST | | | 0 | 0 | 3 | 0 | Winter Storm |
| Snow began late on January 7, mixing with rain or sleet mainly along the coast during the afternoon of the 8th. The precipitation ended late in the day of the 8th. Snowfall amounts averaged 3 to 6 inches in Kent and Sussex counties and 6 to 9 inches in New Castle County, with no significant amounts along the coastal areas. | | | | | | | | | |
| FLORIDA | | | | | | | | | |
| Lake Co., Leesburg | 21 | 1045EST | | | 0 | 0 | 3 | 0 | TSTM wind (60) |
| Lake Co., Umatilla | 21 | 1050EST | | | 0 | 5 | 4 | 0 | TSTM wind (60) |
| High wind flipped over an airplane in Leesburg. At Umatilla high wind overturned four trailers and five people suffered minor injuries. Twenty-seven trailers were damaged. | | | | | | | | | |
| Volusia Co., Ormond Beach | 21 | 1115EST | 10 | 60 | 0 | 3 | 5 | 0 | Tornado (F1) |
| A tornado moved across northern Volusia County touching down several times along a ten mile track that started ten miles west of Ormond Beach and ended just north of Ormond Beach. Trees and power lines were downed. A fire station was damaged. One home was destroyed. Three people at a lumber company were slightly injured when the tornado damaged the building. | | | | | | | | | |
| GEORGIA | | | | | | | | | |
| GAZ001-002-003-004 | 07 | 0100EST | | | 0 | 0 | ? | 0 | Heavy Snow |
| GAZ005-006-007 | 07 | 1100EST | | | 0 | 0 | ? | 0 | Ice/Sleet Storm |
| GAZ008-009-010 | 07 | 1300EST | | | 0 | 0 | ? | 0 | Glaze |
| A major winter storm occurred across north and central Georgia. The precipitation began as snow in the northwest corner of Georgia around 1 am EST on January 7, and spread across the northern third of Georgia by 7 am. By 1 pm EST, the precipitation had quickly overspread the central part of the state as a mixture of sleet and freezing rain and the southern part of the state as a cold rain. Except for spotty freezing drizzle and a few snow flurries, the precipitation ended shortly after midnight on the 8th. Accumulations of snow totaled 10 to 16 inches across the extreme northern counties with 2 to 4 inches of in the north-central part of the state in a band across metropolitan Atlanta and Athens. Farther south, in a broad band across the mid-state area from Columbus to Augusta, mostly sleet and freezing rain accumulated 1 to 3 inches deep. A light glaze of freezing rain mixed with rain occurred across the south-central part of the state in a band from Albany to Savannah. Two children were killed and 35 injured in sledding accidents after the snow. There were several traffic accidents which resulted in one death and a few injuries. Eighty chicken houses collapsed from the weight of snow and ice, killing 516,000 chickens, in scattered locations across the northern counties. The roof of a marina collapsed onto boats, sinking two and damaging several others. There were major disruptions of travel across the northern half of the state and minor problems in the south-central area. About 36,000 power outages occurred in the state. Most occurred in the south-central part of the state where the freezing rain occurred and in the extreme northern counties where the heaviest snow fell. Most businesses and nearly all of the schools were closed on the 7th and 8th and most schools remained closed through the 12th from the Atlanta and Athens area northward. Many school systems in the extreme north counties remained closed through the 15th due to the snow-clogged streets and secondary roads. | | | | | | | | | |
| Ben Hill County, Fitzgerald | 18 | 0030EST | | | 0 | 0 | 4 | 0 | Lightning |
| A lightning caused fire caused \$25,000 damage at a lumber yard. | | | | | | | | | |

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1988

| 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 | |
| — GEORGIA | | | | | | | | | |
| Polk County, Ceadertown | 19 | 2139EST | | | 0 | 0 | ? | 0 | Tstm Winds |
| Floyd County 10SW Rome | 19 | 2141EST | | | 0 | 0 | ? | 0 | Tstm Winds |
| Douglas County, Douglasville | 19 | 2230EST | | | 0 | 0 | ? | 0 | Tstm Winds |
| Fulton County, Atlanta | 19 | 2345EST | | | 0 | 0 | ? | 0 | Tstm Winds |
| Heard County, Roosterville | 19 | 2350EST | | | 0 | 0 | ? | 0 | Tstm Winds |
| Coweta County, Newnan | 20 | 0008EST | | | 0 | 0 | ? | 0 | Tstm Winds |
| Clayton County, Jonesboro | 20 | 0040EST | | | 0 | 0 | 5 | 0 | Tstm Winds |
| <p>A band of fast-moving thunderstorms caused scattered damage at several locations across northwest Georgia during the late evening on the 19th until after midnight on the 20th. Most of the damage was limited to trees and power lines downed by the thunderstorm winds estimated to be between 60 and 70 mph. A barn was destroyed in southwest Floyd County. A bank was damaged in downtown Atlanta when thunderstorm winds blew out several large plate glass windows on the ground floor of the building. An office building in Jonesboro was heavily damaged when the combination of high winds and very heavy rain caused the roof to collapse.</p> | | | | | | | | | |
| 10 IDAHO | | | | | | | | | |
| IDZ008 North Central ID | 9 | 0600-1400 MST | | | 0 | 0 | 0 | 0 | Heavy Snow |
| IDZ006 West Central ID | 9 | 1000-1800 MST | | | 0 | 0 | 0 | 0 | Heavy Snow |
| <p>Warm moist Pacific air overrode the very cold air over West-Central Idaho and produced heavy snow: 8-14 inches fell in McCall and its nearby mountains; 6-8 inches from Cambridge to Idaho City; 6 inches at Elk City and Powell; 5 inches at Koskia and Pierce; and 4 inches at Moscow.</p> | | | | | | | | | |
| ID7007 Sun Valley area | 10 | 0000-1500 MST | | | 0 | 0 | 0 | 0 | Heavy Snow |
| <p>The same warm frontal system brought 6 inches of snow to Ketchum and up to a foot in the adjacent mountains.</p> | | | | | | | | | |
| IDZ006 North Central ID | 11 | 0000-0600 MST | | | 0 | 0 | 0 | 0 | Heavy Snow |
| IDZ006 Valley Co. | 11 | 0300 MST | | | 0 | 0 | 3 | 0 | High Wind |
| IDZ008 Pullman, Genesee | 11 | 0300-0900 MST | | | 0 | 0 | 3 | 0 | High Wind |
| IDZ001-005 Melba, Boise, Caldwell, Emmett | 11 | 0100-0300 MST | | | 0 | 0 | 4 | 0 | High Wind |
| IDZ002 Twin Falls, Buhl, Hansen | 11 | 0400 MST | | | 0 | 0 | 4 | 0 | High Wind |
| IDZ003 Pocatello, Rexburg | 11 | 0600 MST | | | 0 | 0 | 3 | 0 | High Wind (59) |
| IDZ004 Franklin & Oneida Counties | 11 | 0600-0900 MST | | | 0 | 0 | 3 | 0 | High Wind |
| <p>A strong and fast moving cold front moved across Idaho during the early morning hours. Six inches of snow fell at Elk City and five inches at Idaho City. High winds caused extensive blowing and drifting snow and closed schools and roads in ZONES 2, 3, 4, and 8. Power was knocked out over many sections of Southern Idaho. Winds estimated between 50 and 70 mph in Canyon, Owyhee and Gem counties toppled large trees, destroyed at least two patios, and blew down a chimney. A 1200 foot section of roof blew off the Purple Sage Golf Course clubhouse. Barns and sheds were damaged near Buhl and Hansen, which killed two cows. Unofficial wind gusts to 57 mph were recorded in Twin Falls, while the Pocatello Airport reported an official wind gust of 68 mph. Blizzard conditions were reported in Franklin and Oneida counties between 7:00 and 9:00 am, where winds were estimated up to 60 mph. The high winds caused two chimney fires in the Rexburg area.</p> | | | | | | | | | |
| IDZ001 Canyon County | 17 | 0800 MST | | | 0 | ? | ? | 0 | Dense Fog |
| <p>Dense fog in the Nampa/Caldwell area produced an 11 car pile-up on I-84.</p> | | | | | | | | | |
| — IDAHO | | | | | | | | | |
| IDZ006 West Central ID | 17 | 1600-2200 MST | | | 0 | 0 | 0 | 0 | Heavy Snow |
| <p>Brundage Mountain near McCall received 6 inches of snow while Bogus Basin near Boise reported 12 inches.</p> | | | | | | | | | |
| 11 ILLINOIS | | | | | | | | | |
| ILZ003 Northeast IL | 04- | 0000 | | | 0 | 0 | 0 | 0 | Severe Cold |
| | 06 | 2400CST | | | | | | | |
| <p>Sub-zero cold coupled with strong winds provided the Chicago area with wind chill factors down to around 50 below zero. The actual air temperature at O'Hare International Airport reached 14 below zero on the morning of the 6th and was a new record low for the date, and was the coldest reading during the 3 day cold period. The high temperature reached only 2 below zero on the 5th. The arctic, bone-chilling cold contributed to three fatalities in the Chicago metro area due to hypothermia, according to the Cook County medical examiner's office. Shelters were opened for the homeless in the Chicago area. Below zero temperatures caused broken water mains and pipes in Oak Lawn, Hometown, and Calumet City in Chicago's south suburban area.</p> | | | | | | | | | |
| 12 INDIANA | | | | | | | | | |
| INZ-01 Extreme Northwest Indiana | 26 | 0800 EST 1600 EST | | | 0 | 0 | ? | ? | Heavy Snow |
| <p>Lake-induced snow of 8 to 10 inches fell over a band about 20 miles wide, covering most of LaPorte County. Schools were dismissed around 1 pm as roads became hazardous and visibilities were reduced to from 0 to 1/4 mile.</p> | | | | | | | | | |
| 13 IOWA | | | | | | | | | |
| IAZ001-003-005-006-007-008-SDZ018 Northern Iowa | 12 | 1000 CST-2100 CST | | | 0 | 0 | 4 | 0 | Blizzard |
| <p>A ground blizzard affected about the north half of Iowa. It began over the northwest during the late morning and spread to the northeast by early afternoon. Snowfall amounts were under 3 inches, but northwest winds of 30 to 40 MPH, and occasionally gusting to over 50 MPH, reduced visibilities to zero. Travel was brought to a standstill. Several hundred students were stranded in schools in North-Central and Northeast Iowa. The blizzard resulted in the closure of Interstate 35 across Northern Iowa from Ames to the Minnesota border.</p> | | | | | | | | | |
| IAZ001-005-009 Western Iowa | 12 | 1200 CST-12 1700 CST | | | 0 | 0 | 5 | 0 | High Winds |
| <p>Strong winds roared into Western Iowa during the afternoon of the 12th. They caused blizzard conditions in some areas, and scattered reports of damage elsewhere. An empty semi-trailer was blown over by the winds in Palo Alto County. Winds were recorded at 63 MPH at Carroll.</p> | | | | | | | | | |
| IAZ001-004-005-006-009-SDZ018 Northwest Iowa | 19 | 0600 CST-19 1800 CST | | | 0 | 0 | 5 | 0 | Snow and Heavy Snow |
| IAZ002-003-007-008 Northeast Iowa | 19 | 1700 CST-20 2300 CST | | | 0 | 0 | 4 | 0 | Snow and Heavy Snow |
| <p>A storm system approaching Iowa from the southwest produced 4 to 8 inches of snow across much of Northwest Iowa during the day on the 19th. The heaviest accumulation was over the extreme northwest corner, where nearly a foot and a half of snow was reported. The storm began with a mixture of freezing rain, sleet and snow. The precipitation quickly turned to snow. Winds of 20 to 35 MPH reduced visibility to near zero at times in many areas. During the late afternoon the storm weakened as a new storm developed southeast of Iowa. As the second storm moved across Illinois, snow developed in Northeast Iowa. Accumulation was in the 4 to 8-inch range. Winds of 15 to 30 MPH caused considerable blowing and drifting of the snow.</p> | | | | | | | | | |

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1988

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS | | | | ESTIMATED ¹ DAMAGE | | CHARACTER OF STORM |
|---|-------|-----------------------|------------------------|-----------------------|----------------|---------|----------|-------|-------------------------------|-------|--------------------|
| | | | | | KILLED | INJURED | PROPERTY | CROPS | PROPERTY | CROPS | |
| — IOWA | | | | | | | | | | | |
| IAZ001-002-004-005-006-009-SDZ018 Northwest Iowa | 23 | 1100 CST- | | | 0 | 0 | 4 | 0 | | | Blizzard |
| | 23 | 2300 CST | | | | | | | | | |
| Snow fell over much of Iowa during the early morning hours of the 23rd. Amounts were generally under 2 inches, although isolated 5-inch amounts occurred over the northeast third of the state. Late in the morning of the 23rd, northwest winds of 25 to 40 MPH swept into the state. These winds overspread a large part of the state. Blizzard conditions developed over the northwest third as winds occasionally gusting over 50 MPH whipped up the new snow and reduced visibilities to near zero. Interstate 35 was closed for a few hours during the evening from Ames north to the Minnesota border. | | | | | | | | | | | |
| IAZ001-002-003-004-005-006-007-008-009-010-011-014-015-SDZ018 Most of Iowa | 24 | 1600 CST- | | | 0 | 0 | 4 | 0 | | | Blizzard |
| | 25 | 0800 CST | | | | | | | | | |
| The second blizzard in 24 hours entered Northwest Iowa during the afternoon of the 24th. Anywhere from 2 to 6 inches of new snow fell during the previous night. Visibilities dropped to near zero very quickly as 30 to 45 MPH winds whipped the new snow into the air. Portions of Northwest and North-Central Iowa had winds in the 60 to 65 MPH range. Most of the rest of the state had wind speeds under 55 MPH. The winds resulted in snow drifts 6 to 12 feet high in Northern Iowa. Interstate 29 in Western Iowa was closed for a while during the late afternoon and early evening hours, while Interstate 35 from Ames north to the Minnesota border was closed during the evening. This was the third time that Interstate 35 was closed this month. Temperatures dropped rapidly with the onset of the winds. Over Western Iowa, temperature drops of 30 degrees in less than 2 hours were common. Wind chill indices were in the 30 to 55 degrees below zero range by the morning of the 25th. Over the Northwest and North-Central counties, some areas had wind chill values of 65 degrees below zero. | | | | | | | | | | | |
| IAZ001-002-004-005-006-SDZ018 Northwest Iowa | 24 | 1600 CST | | | 0 | 0 | 4 | 0 | | | High Winds |
| | 24 | 2100 CST | | | | | | | | | |
| The second blizzard in 24 hours entered Northwest Iowa during the afternoon of the 24th. Anywhere from 2 to 6 inches of new snow fell during the previous night. Visibilities dropped to near zero very quickly as 30 to 45 MPH winds whipped the new snow into the air. Portions of Northwest and North-Central Iowa had winds in the 60 to 65 MPH range. Most of the rest of the state had wind speeds under 55 MPH. The winds resulted in snow drifts 6 to 12 feet high in Northern Iowa. Interstate 29 in Western Iowa was closed for a while during the late afternoon and early evening hours, while Interstate 35 from Ames north to the Minnesota border was closed during the evening. This was the third time that Interstate 35 was closed this month. Temperatures dropped rapidly with the onset of the winds. Over Western Iowa, temperature drops of 30 degrees in less than 2 hours were common. Wind chill indices were in the 30 to 55 degrees below zero range by the morning of the 25th. Over the Northwest and North-Central counties, some areas had wind chill values of 65 degrees below zero. | | | | | | | | | | | |
| — KANSAS | | | | | | | | | | | |
| KSZ001-002-004 Northwest Kansas | 18 | 1030 to | | | 0 | 0 | 4 | 0 | | | Blizzard |
| | 19 | 2030CST | | | | | | | | | |
| An intense storm system moved across portions of Colorado, western Kansas and Nebraska. The storm produced heavy snow, strong winds and severe blowing and drifting snow. Snowfall amounts from the storm included 16 inches at both Goodland and St. Francis. Northwesterly winds of 25 to 50 mph produced severe blowing and drifting snow across the region. Many drifts in the area were 3 to 5 feet tall. A peak gust of 61 mph was clocked at Goodland shortly after 1500 CST on the 19th. All roads and highways were closed in the area from 1400 CST on the 18th through 1000 CST on the 19th. Visibilities were reduced to nearly zero on the 19th between 0800 CST and 2000 CST. Interstate 70 was closed from Salina to the Colorado border during the storm. Other highways that remained closed during the storm included US-40, US-24, US-83, K-24 and K-25. A man was killed on I-70 in Kansas City, KS when his truck slid out of control on rain slick pavement and crashed shortly after midnight on the 19th. M60V. | | | | | | | | | | | |
| KSZ003-006 Southwest Kansas | 19- | 1800 to | | | 0 | 0 | 3 | 0 | | | High Winds |
| | 20 | 0300CST | | | | | | | | | |
| The same storm system that brought blizzard conditions to northwest Kansas also produced high winds across southwestern portions of the state. The strongest winds occurred from 1900 CST on the 19th through 0200 CST of the 20th where winds averaged between 35 and 50 mph. A peak gust of 53 mph was recorded at Dodge City shortly after 0100 CST on the 20th. A wind gust of 52 mph was also clocked at Liberal. | | | | | | | | | | | |
| 15 KENTUCKY | | | | | | | | | | | |
| Caldwell County | 19 | 1000- | | | 0 | 0 | 5 | 0 | | | Flash Flood |
| | | 1530CST | | | | | | | | | |
| 3.76 inches of rain fell on the 19th with the heaviest rainfall occurring during the late morning and early afternoon hours. A building, in Princeton, which housed sewer pre-treatment equipment was destroyed when high water collapsed one of the walls and the roof caved in. Also many streets and roads in the county were covered with water. | | | | | | | | | | | |
| Christian County | 19 | 1100- | | | 0 | 0 | 5 | 0 | | | Flash Flood |
| | | 1430CST | | | | | | | | | |
| A 3.54 inch rainfall forced officials to evacuate 36 people from 12 trailer homes as the South Fork of the Little River ran over its banks in a subdivision of Hopkinsville. Also many streets and roads in the county were covered with water. | | | | | | | | | | | |
| Bell County | 19-20 | 2200- | | | 0 | 0 | 5 | 0 | | | Flash Flood |
| | | 0300EST | | | | | | | | | |
| At least 2.40 inches of rain caused the Yellow Creek to overflow its banks. The hardest hit area was the business district along Cumberland Ave in Middlesboro where the water rose to over three feet in some buildings. | | | | | | | | | | | |
| 16 LOUISIANA | | | | | | | | | | | |
| LAZ001 Northwest Louisiana | 24 | 0800CST- | | | 1 | 0 | 5 | ? | | | Flooding |
| | 05 | 1200CST | | | | | | | | | |
| Flooding continued over the extreme northwest portion of the state as a result of heavy rain that fell during the last week of December 1987. (See December 1987 Storm Data). Most streams, lakes, and bayous crested on Jan 2, 1988. However, flooding of camps, trailers, and houses continued along Bayou Dorcheat and around Caddo Lake, and several roads were closed due to high water. On Jan 2, 1988, a 75 year old man drowned while attempting to walk to safety after leaving his car which stalled in high water. M75V. | | | | | | | | | | | |
| 14 KANSAS | | | | | | | | | | | |
| KSZ003-005-006-008-009-011-012-017 Southern Half of Kansas | 5- | 0500 to | | | 0 | 0 | 4 | 0 | | | Heavy Snow |
| | 7 | 1200CST | | | | | | | | | |
| A major storm system brought locally heavy snows of 7 to 13 inches to the southern half of Kansas. The heaviest snow fell across southwest and south central Kansas on the 6th between 0100 and 2400 CST where 9 to 13 inches was reported. Snowfall amounts included 13 inches at Anthony and Arkansas City; 12 inches at Dodge City; 11 inches at Garden City and Pratt with 10 inches at Great Bend. Other amounts from the storm included 9 inches at both Wichita and Coffeyville; 8 inches at Russell and 7 inches at Salina. Lighter snowfall amounts of 2 to 4 inches fell across north-central and northeast sections of the state. Northeasterly winds of 15 to 25 mph caused minor drifting across south central Kansas. Highway 44 in the Anthony area was closed for a short time during the early morning hours of the 7th. | | | | | | | | | | | |
| KSZ009-012 South Central Kansas | 11- | 1600 to | | | 0 | 0 | 4 | 0 | | | Blowing Snow |
| | 12 | 0600CST | | | | | | | | | |
| Strong southerly winds of 20 to 40 mph caused considerable blowing and drifting of snow already on the ground from the snowstorm on the 6th and 7th of the month. Several highways were closed in the area. Light freezing drizzle also fell intermittently during the night adding to the already hazardous travel conditions. Two deaths occurred because of the poor road conditions. An elderly couple were killed when their car slid on a patch of ice on Interstate 135 in McPherson County. Their car slid across the median into the path of a semitrailer traveling in the opposite direction. The accident occurred during the late evening hours on the 11th. M80V. F75V. | | | | | | | | | | | |

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1988

| 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 | |
| LOUISIANA | | | | | | | | | |
| LAZ001-002-003-004-005-006, Northwest, Northeast, West Central | 06 0300CST 07 1200CST | | | | 0 | 125 | 6 | 5 | Sleet and Ice Storm |
| | <p>A winter storm spread sleet and freezing rain across the northwest third of the state, generally north of a Leesville-Jena-Tallulah line. Sleet accumulated around 3 inches along the extreme northwest border, around 2 inches in the Shreveport area, and around 1 inch along a line from Monroe to Mansfield. South of sleet area, warm soil temperatures prevented widespread significant ice accumulations on the ground. However, 1/2 to 3/4 inch of ice accumulated on the trees and power lines, and on bridges and overpasses. Though the storm ended on the 7th, the effects were felt in many areas until the 12th as the temperature remained unseasonably cold and little melting of the ice occurred. Schools throughout the area were closed between 2 and 5 days. Numerous highways, including Interstate Highways 20 and 220, were closed at various times due to icy conditions and stalled trucks and autos blocking the roads. Hundreds of traffic accidents were reported over the area due to icy roadways. Approximately 125 area residents, unaccustomed to the icy weather, were injured from falls on the icy sidewalks and streets. Over 10,000 residences were without electricity, some for up to 3 days, as accumulations of ice and combined with gusty winds to snap trees and power lines. Power outages were particularly acute in the parishes of: Natchitoches, Sabine, DeSoto, Vernon, Winn, and Red River. In the Ruston area, several large chicken coops collapsed under the burden of sleet, ice, and gusty winds, killing around 6,000 chickens. This was the worst winter storm to hit the area since 1983-84. Total damage was estimated at \$750,000.</p> | | | | | | | | |
| Red River Parish 8 E Coushatta | 19 0210CST | | | | 0 | 0 | ? | ? | Hail (1.00) |
| Natchitoches Parish Chestnut | 19 0215CST | | | | 0 | 0 | ? | ? | Hail (0.88) |
| Bienville Parish 2 SE Bienville | 19 0232CST | | | | 0 | 0 | ? | ? | Hail (1.00) |
| Jackson Parish Quitman | 19 0315CST | | | | 0 | 0 | ? | ? | Hail (1.00) |
| Lincoln Parish Choudrant | 19 0330CST | | | | 0 | 0 | ? | ? | Hail (0.88) |
| Ouachita Parish Calhoun | 19 0355CST | | | | 0 | 0 | ? | ? | TSTM Wind |
| Union Parish 5 SW Spencer | 19 0410CST | | | | 0 | 0 | ? | ? | TSTM Wind |
| | <p>A line of severe thunderstorms moved across northwest and north-central Louisiana during the early morning hours producing hail, strong wind gusts, and brief heavy rain. Numerous trees were blown down over northwest Ouachita and southeast Union Parishes.</p> | | | | | | | | |
| St Tammany Parish Mandeville | 19 1620CST | | | | 0 | 0 | ? | ? | TSTM Wind |
| St Tammany Parish Mandeville | 19 1700CST | | | | 0 | 0 | ? | ? | TSTM Wind |
| | <p>A line of thunderstorms moved across southeast Louisiana during the late afternoon producing isolated reports of strong wind gusts and minor property damage.</p> | | | | | | | | |
| 17 MAINE ————— NO REPORT RECEIVED | | | | | | | | | |
| 18 MARYLAND and D.C. | | | | | | | | | |
| MDZ001 | 7 1700EST | | | | 0 | 0 | 2 | 0 | Winter Storm |
| MDZ007-008-009 | 7 1830EST | | | | 0 | 0 | 3 | 0 | Winter Storm |
| MDZ002-004-005-006 | 7 1930EST | | | | 0 | 0 | 4 | 0 | Winter Storm |
| MDZ003 | 7 2130EST | | | | 0 | 0 | 3 | 0 | Winter Storm |
| | <p>Snow began late afternoon on January 7, becoming heavier in the evening. The snow mixed with sleet and freezing rain over the eastern shore counties. The accumulations were greatest in the central areas: Charles, Caroline and Talbot counties reported 8 to 10 inches; National and BWI Airports got 8 to 9 inches. Western Maryland counties averaged 4 to 7 inches, and the eastern shore area 3 to 5 inches.</p> | | | | | | | | |
| MARYLAND and D.C. | | | | | | | | | |
| MDZ003-005-006-007 | 25 1130EST | | | | 0 | 0 | 4 | 0 | Winter Storm |
| | <p>Snow, initially mixing with rain or freezing rain, accumulated 4 to 7 inches in the northern counties, and 2 to 3 at BWI Airport.</p> | | | | | | | | |
| MDZ008-009 | 25 2100EST | | | | 0 | 0 | 3 | 0 | Winter Storm |
| | <p>Snow began late in the evening as a low center approached the area, leaving 6 to 9 inches accumulation.</p> | | | | | | | | |
| 19 MASSACHUSETTS | | | | | | | | | |
| MAZ02-07-09 Eastern MA | 04 Morning | | | | 0 | 0 | 0 | 0 | Heavy snow |
| | <p>Heavy snow accumulated up to 6 to 8 inches during the morning causing cancellation of classes at many schools as well as disrupting the morning commute.</p> | | | | | | | | |
| MAZ01-02-04-05-06-07-08-09 Statewide, except Cape and Islands | 08- Afternoon and eve. 09 Morning | | | | 0 | 0 | 0 | 0 | Heavy snow |
| | <p>Snow accumulations ranged from 6 to 10 inches across the region with 8 to 10 inches in the Boston area and 6 to 8 inches in the western portion of the state. Many events were cancelled when traveling conditions became very hazardous during the afternoon and evening. Many schools and businesses closed early and commuters left work early avoiding any major problems at evening rush hour.</p> | | | | | | | | |
| MAZ01-04-05-06 North central, central and western portion | 25- Afternoon and eve. 26 Morning | | | | 0 | 0 | 0 | 0 | Heavy snow |
| | <p>Heavy, wet snow accumulated up to 6 to 8 inches in the central portion of the state with 6 1/2 inches reported at Worcester. The weight of the snow on trees and power lines resulted in scattered power losses which affected several thousand electric customers for up to several hours during the storm. Snow amounts of 10 to 12 inches were reported in the Berkshires. The usual poor traveling conditions caused a number of skidding accidents but no serious problems were reported.</p> | | | | | | | | |
| 20 MICHIGAN ————— NONE REPORTED | | | | | | | | | |
| 21 MINNESOTA | | | | | | | | | |
| MNZ016 Ramsey County | 04 early morning | | | | 1 | 0 | 0 | 0 | Extreme cold |
| | <p>A St. Paul man fell in front of his home and died of hypothermia. M790</p> | | | | | | | | |
| MNZ001-002-006-007-010-013-015-017 West | 11-12 1900CST | | | | 0 | 0 | 0 | 0 | Blizzard, Heavy Snow |
| MNZ003-004-005-008-009-011-012 Northeast | 11-12 2200CST | | | | 0 | 0 | 0 | 0 | Heavy Snow |
| | <p>Heavy snow spread into the northwest during the evening of the 11th. By 2200CST six to eight inches of snow accumulated from Detroit Lakes to Bemidji. Snow spread into northeast Minnesota late in the evening while areas of sleet and freezing rain fell across central and southern Minnesota. By 0300CST accumulations reached 8 inches at Bemidji, 9 to 12 inches at Deer River and Grand Rapids, and 12 inches at Ely. Meanwhile visibilities dropped to near zero in northwest and west-central Minnesota as winds increased. Blizzard conditions spread from northwest into southwest Minnesota by early morning on the 12th. Plows were pulled off roads in many areas due to poor visibilities. The State Patrol reported 229 accidents including 31 involving injuries. Whiteout conditions also reached southeast Minnesota where 2 to 4 inches eventually fell. Windmills received a peak gust of 65 miles per hour at 1630CST. By 1245CST on the 12th conditions began to improve in the northwest. Blizzard conditions also began to let up in southwest Minnesota by 1540CST. A heavy band of snow of one foot or more fell across the north from Moorhead through Bemidji to Hibbing and Ely. Fourteen inches at Grand Rapids was the maximum storm total.</p> | | | | | | | | |

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1988

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS | | ESTIMATED ¹ DAMAGE | | CHARACTER OF STORM |
|---|---|-----------------------|------------------------|-----------------------|----------------|---------|-------------------------------|-------|--------------------|
| | | | | | KILLED | INJURED | PROPERTY | CROPS | |
| MINNESOTA | | | | | | | | | |
| MN2005 South | 19-20 | 1030CST | 0 | 0 | 0 | 0 | 0 | 0 | Heavy Snow |
| | <p>Heavy snow spread into southwest Minnesota during the morning of the 19th and across southeast Minnesota during the afternoon. Thunder was observed by mid-afternoon in the southwest and south-central sections of the state. By 1530CST 12 inches of snow had accumulated at Worthington. By 2100CST 6 inches of snow had fallen around Minneapolis and Rochester. Winds of 30 miles per hour accompanied the snow, resulting in blowing snow which restricted visibilities to near zero. Six to eight foot drifts developed in Watonwan County. Many roads were blocked and numerous motorists were stranded. The snow caused many schools and businesses to close. Snow gradually diminished in southwest Minnesota during the morning of the 20th but persisted into the afternoon in the southeast corner of the state. Worthington received a maximum of 13 inches of snow. Eight inches or more fell from the Iowa border north to the Twin Cities metropolitan area in the southeast and north to Canby in the southwest.</p> | | | | | | | | |
| MN2016 Ramsey, Washington Counties | 23 | afternoon | 1 | 0 | 0 | 0 | 0 | 0 | Extreme cold |
| | <p>A quadriplegic died of hypothermia after ice fishing on White Bear Lake. M290</p> | | | | | | | | |
| MN200N-005 West and South | 24-25 | 0840CST | 0 | 1 | 0 | 0 | 0 | 0 | Blizzard |
| | <p>An Arctic front moved across the northwest during the morning of the 24th, into the southwest by early afternoon then through the southeast corner of the state by evening. Sharply falling temperatures and winds gusting to 55 miles per hour behind the Arctic front created blizzard conditions described as a wall of white. Travel came to a standstill as visibilities fell suddenly to near zero in blowing snow. Winds remained strong through the night and temperatures fell resulting in wind chills 50 to 60 degrees below zero. Six to eight inches of snow that fell in southwest Minnesota on the 23rd was blown into 4 to 8 foot drifts. Many motorists became stranded. Several people spent up to 20 hours in their cars near Confrey and Bingham Lake. A woman was hospitalized with severe frostbite after being exposed to the blizzard for several hours 2 1/2 miles east of Litchfield. Winds continued to drift snow and hamper snow removal efforts on the morning of the 25th across the south. Temperatures were bitterly cold and many schools remained closed.</p> | | | | | | | | |
| 22 MISSISSIPPI | | | | | | | | | |
| MSZ-001-009 North and Central Mississippi | 6-7 | 1800CST-1000CST | 0 | 0 | 5 | 0 | 0 | 0 | Winter Storm |
| | <p>A winter storm brought a variety of significant winter weather to the state. Across the northern quarter of the state, 6 to 12 inches of snow occurred. A narrow band of 4 to 6 inches of snow fell south of this area to a Greenville to Aberdeen line. In the area south of a Greenville-Aberdeen line to Interstate 20, a major ice storm occurred. Power lines and trees snapped causing widespread power outages. At one time, 35,000 people in Jackson were without electricity. Most roads north of a Vicksburg to Columbus line were extremely hazardous and nearly undrivable, even 2 days after the event had ended. Schools were closed and many businesses closed. Some buildings and roofs collapsed due to the weight of the snow and ice. Numerous car accidents occurred with many cars and trucks left stranded.</p> | | | | | | | | |
| Harrison County, 7N Gulfport | 18 | 0520CST | 0 | 0 | ? | 0 | 0 | 0 | Hail (1.00) |
| Tippah County, Ripley | 19 | 0100CST | 0 | 0 | ? | 0 | 0 | 0 | Hail (1.25) |
| Leflore County, 5N Greenwood | 19 | 0100CST | 0 | 0 | 5 | 0 | 0 | 0 | Thunderstorm Winds |
| | <p>Strong winds damaged several roofs in a small community north of Greenwood. Several windows were blown out and a satellite dish was destroyed.</p> | | | | | | | | |
| Sunflower County, Indianola | 19 | 0125CST | 0 | 0 | 4 | 0 | 0 | 0 | Thunderstorm Winds |
| | <p>Strong winds ripped off portions of a roof at a school in Indianola. Also, in the same area, several tree tops were snapped off and a metal backstop on a tennis court was bent.</p> | | | | | | | | |
| Yazoo County, Phoenix | 19 | 1000CST | 0 | 0 | ? | 0 | 0 | 0 | Hail (.75) |
| Bolivar County, 7SW Cleveland to 4N Cleveland | 19 | 1000CST-1015CST | 11.0 | 35 | 0 | 0 | 4 | 0 | Tornado (F1) |
| | <p>A skinny and weak tornado moved through Bolivar County touching down sporadically through an 11 mile path. The tornado moved through mostly barren fields, but 2 service buildings were destroyed and 2 received major damage. A few mobile homes and permanent structures suffered minor damage. Total estimate of damage was 35,000 dollars.</p> | | | | | | | | |
| MISSISSIPPI | | | | | | | | | |
| DeSoto County, 6NWN Hernando to 3ESE Southaven | 19 | 1012-1025CST | 9.5 | 70 | 0 | 1 | 6 | 0 | Tornado (F2) |
| | <p>A tornado moved northeast at 55 mph and touched down 4 separate times in a 9.5 mile stretch. Near the middle portion of the track, the tornado set down for 3 miles and inflicted its worst damage in a subdivision south of Southaven. In total, 4 homes were destroyed, 10 had major damage and 79 minor damage. Damage was estimated at one half million dollars. The tornado also derailed 14 cars of a train. Other outbuildings and fences also received heavy damage. Total damage from the tornado was estimated at 1.2 million dollars.</p> | | | | | | | | |
| Madison County, 6NE Flora | 19 | 1042CST | 0 | 0 | ? | 0 | 0 | 0 | Thunderstorm Winds |
| | <p>Some trees were blown down and snapped off 6 miles northeast of Flora. Some tin was blown off of a shed.</p> | | | | | | | | |
| Yazoo County, 18SE Yazoo City | 19 | 1050CST | 0 | 0 | ? | 0 | 0 | 0 | Thunderstorm Winds |
| | <p>Trees were blown down on Mississippi Highway 16 in extreme southeast Yazoo County.</p> | | | | | | | | |
| Holmes County, Goodman | 19 | 1105CST | 0 | 0 | ? | 0 | 0 | 0 | Hail (1.00) |
| Attala County, 3SE Goodman | 19 | 1110CST | 0 | 0 | 4 | 0 | 0 | 0 | Thunderstorm Winds |
| | <p>A mobile home was destroyed by strong winds. An unoccupied bus was blown off the road.</p> | | | | | | | | |
| Attala County, 3E Goodman | 19 | 1110CST | 1.5 | 40 | 0 | 0 | 5 | 0 | Tornado (F1) |
| | <p>A small tornado touched down 3 miles east of Goodman. The tornado tracked northeast 1.5 miles through mostly farmland. A roof was blown off a house and a barn, trees were uprooted and irrigation sprinklers were destroyed.</p> | | | | | | | | |
| Attala County, 3N Kosciusko to 16NE Kosciusko | 19 | 1120CST | 13.5 | 700 | 0 | 1 | 6 | 0 | Tornado (F4) |
| | <p>An extremely powerful, but compact tornado moved through a heavily forested area of northeastern Attala County. The strongest portion of the tornado was in a 3 mile stretch in the Liberty Chapel community about 16 miles northeast of Kosciusko. The strongest winds were in the center of the tornado path with the width of the F 4 damage only 10-20 yards wide. Even though the tornado traveled through very sparsely populated country, it was miraculous that there was only one injury. One man was badly cut when the twister completely dismantled his home. A total of 5 homes were destroyed and 7 others were damaged. Five barns were also destroyed. The Forestry Commission estimated 1920 acres were damaged at a cost of one-half million dollars.</p> | | | | | | | | |
| Sunflower County, Rome | 19 | 1120CST | 0 | 0 | 3 | 0 | 0 | 0 | Thunderstorm Winds |
| | <p>Several cotton trailers were blown over in the far northern portion of Sunflower County.</p> | | | | | | | | |
| Attala County, 5NE Kosciusko | 19 | 1125CST | 0 | 0 | 4 | 0 | 0 | 0 | Thunderstorm Winds |
| | <p>Several roofs were damaged by strong winds that rotated around the tornado to the north. Also 3 tool sheds and 1 barn was destroyed.</p> | | | | | | | | |
| Tallahatchie County, 6SW Charleston | 19 | 1145CST | 0 | 0 | 4 | 0 | 0 | 0 | Thunderstorm Winds |
| | <p>Windows were blown out of a house by strong winds. Some tree tops were snapped off and several cotton trailers were overturned.</p> | | | | | | | | |
| Oktibbeha County, 3SE Maben | 19 | 1205CST | 0 | 0 | ? | 0 | 0 | 0 | Thunderstorm Winds |
| | <p>Numerous trees were blown down on Highway 82, 3 miles southeast of Maben.</p> | | | | | | | | |
| Webster County, Dancy | 19 | 1205CST | 0 | 0 | ? | 0 | 0 | 0 | Thunderstorm Winds |
| | <p>Strong winds blew down trees along the Natchez Trace near Dancy.</p> | | | | | | | | |
| Clay County and Chickasaw County, 15NW West Point to 16SE Houston | 19 | 1220-1235CST | 10.5 | 100 | 0 | 0 | 6 | 0 | Tornado (F3) |
| | <p>A tornado moved through a very rural portion of Clay County. The tornado moved into the extreme southeast corner of Chickasaw County around 1232CST and dissipated after moving about 2 miles into the county. The UNA community in Clay County was the hardest hit area. In total, 10 homes were destroyed and another 5 damaged, all in Clay County. Damage to homes was estimated at 350,000 dollars. Another 150,000 dollars of damage was done to farm machinery. Nearly 3 miles of fences were laid flat. About 240 acres of timber were destroyed valued at 100,000 dollars.</p> | | | | | | | | |
| Monroe County, Gibson | 19 | 1235CST | 0 | 0 | 0 | 0 | 0 | 0 | Funnel Cloud |
| Monroe County, 7W Aberdeen | 19 | 1235CST | 0 | 0 | 3 | 0 | 0 | 0 | Thunderstorm Winds |
| | <p>A porch was blown off a mobile home by strong winds.</p> | | | | | | | | |
| Monroe County, 10NNW Aberdeen | 19 | 1245CST | 0 | 0 | 4 | 0 | 0 | 0 | Thunderstorm Winds |
| | <p>Strong winds damaged chicken houses.</p> | | | | | | | | |

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1988

| 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 | |
| MISSISSIPPI | | | | | | | | | |
| Newton County, Lawrence | 19 | 1400CST | | | 0 | 0 | ? | 0 | Thunderstorm Winds |
| | | | | | | | | | Trees and power lines were blown down in Lawrence. |
| Jasper County, Bay Springs | 19 | 1510CST | | | 0 | 0 | ? | 0 | Thunderstorm Winds |
| | | | | | | | | | Several trees were blown down near Bay Springs. |
| Lauderdale County, (Lauderdale) | 19 | 1520CST | 1.0 | 30 | 0 | 10 | 4 | 0 | Tornado (F1) |
| | | | | | | | | | A small and short-lived tornado struck the Naval Air Base northeast of Meridian. Damage was to storage trailers, power lines and trees. The injuries were to people who were outside when the storm passed. |
| 23 MISSOURI ————— NONE REPORTED | | | | | | | | | |
| 24 MONTANA | | | | | | | | | |
| MTZ 006-007 | 11 | 0700MST | | | 0 | 0 | 4 | 0 | Heavy snow |
| | | | | | | | | | Six to fourteen inches of snow covered much of Central Montana causing very difficult driving conditions. Winds of 30 mph closed some rural roads as drifts of 3 feet were common. |
| MTZ 001-002 | 14 | 0200 MST | | | 0 | 0 | 2 | 0 | Heavy Snow |
| | | | | | | | | | Areas of heavy snow - 4 to 8 inches - made travel hazardous most of the day. |
| MTZ 003-007 | 22 | 0300 MST | | | 0 | 0 | 3 | 0 | High Winds |
| | | | | | | | | | Winds of 100 mph along the front range of the Rockies from Glacier Park to Augusta and in the Upper Yellowstone Valley caused the usual damage to signs and glass windows. |
| 25 NEBRASKA | | | | | | | | | |
| NEZ001-005-011 Panhandle Nebraska | 11 | 1545CST-2000CST | | | 0 | 0 | 4 | 0 | High Wind (62) |
| | | | | | | | | | Northwest winds gusted to 71 m.p.h. at Sidney at 1829CST, to 69 m.p.h. at Scottsbluff at 1550CST and 60 m.p.h. at Chadron 1945CST. A van was blown off the highway between Harrisburg and Kimball. Some tree limbs and power lines were downed. |
| NEZ009 Northeast Nebraska | 12 | 0550CST | | | 0 | 0 | 1 | 1 | High Wind (50) |
| | | | | | | | | | Northwest wind gusted briefly to 58 m.p.h. at Norfolk. |
| NEZ008 Central Nebraska | 12 | 0950CST | | | 0 | 0 | 1 | 1 | High Wind (50) |
| | | | | | | | | | Northwest wind gusted briefly to 58 m.p.h. at Ord. |
| NEZ001-002-003-004-005-006-007-008-009-011-012-013-014-016-017-018 West and Central Nebraska | 18-19 | 1400CST-2100CST | | | 0 | 0 | 4 | 1 | Blizzard |
| | | | | | | | | | Blizzard conditions lashed areas of western and central Nebraska with visibilities at times near zero in snow and blowing snow. Snowfall of 6 inches or more fell west of a line from Beaver City to Decatur and east of a line from Lyman to Merriman. A band of heavier snow in excess of 12 inches extended in an area about 70 miles wide from the south panhandle near Sidney northeast through the sand hills to north-central Nebraska at Lynch. To this area larger snow amounts included 25 inches at Elsmere, 24 inches at Mullen and Lynch, 23 inches at Brownlee and Brewster, 22 inches at Tryon and Rose, and 20 inches at Theford. Winds in the storm area gusted at times as high as 40 to 55 m.p.h. pushing snow into 6 to 12 foot drifts. Numerous highways including I-80 became clogged with snow and closed. Schools and businesses closed and some power outages were reported. |
| NEZ005-011 Panhandle Nebraska | 24 | 1500CST-1800CST | | | 0 | 0 | 2 | 1 | High Wind (55) |
| | | | | | | | | | Strong northwest winds caused ground blizzards with visibilities at times less than a quarter of a mile in portions of the panhandle. A peak gust to 63 m.p.h. was recorded at Scottsbluff at 1507CST. A number of roads drifted shut stranding motorists. |
| 26 NEVADA | | | | | | | | | |
| NVZ00N Northwest, Northeast, Extreme Western, West Central and East Nevada | 03-05 | 0000PST-0000PST | | | 0 | 0 | ? | 0 | Heavy Snow |
| | | | | | | | | | Snow amounts in the mountains of Extreme Western Nevada and the Lake Tahoe Basin ranged from 12 to 24 inches above the 7000 foot level and between 6 and 13 inches below 7000 feet. In the valleys across Northern Nevada snowfall ranged from 6 to 16 inches. A new 24 hour snowfall record was set at Lovelock, Nevada with 14 inches. Numerous traffic delays were reported in the Sierra Nevada and across Northern Nevada. |
| NVZ003 Extreme Western Nevada | 10 | 1400PST-1600PST | | | 0 | 0 | 0 | 0 | High Winds |
| | | | | | | | | | Gusty southwest winds ahead of a fast moving Pacific cold front hit Extreme Western Nevada during the afternoon and evening. Winds gusting to 77 MPH were reported in the Reno area. The strongest gust at the Reno-Cannon International Airport was 49 MPH. |
| NVZ002 Northeast Nevada | 11 | 0430PST-0530PST | | | 0 | 0 | 0 | 0 | High Winds |
| | | | | | | | | | A fast moving Pacific cold front generated strong gusty winds as it passed through Northeast Nevada. Winds gusted to 62 MPH shortly after the front passed the Elko, Nevada airport. |
| NVZ003 Extreme Western Nevada | 14-16 | 1930PST-1200PST | | | 0 | 0 | 6 | 0 | High Winds |
| | | | | | | | | | A strong cold front moved into Western Nevada the evening of the 14th causing very high winds. The greatest wind speed reported was 106 MPH in southwest Reno. A gust of 90 MPH was recorded at the Reno-Cannon International Airport. This was the strongest wind gust ever reported at the airport. The winds caused widespread damage. There were numerous reports of downed power lines, broken windows, damaged fences and up-rooted trees. A residential house in southeast Reno lost its roof which was blown into the neighbors swimming pool. A chapel steeple fell through the roof and ceiling of a high school class room resulting in an estimated \$160,000 in damages. Several private airplanes and langars were damaged or destroyed at the Reno-Cannon International Airport and the Stead Airport. The estimated damage at the Stead Airport, which is located 10 miles north of downtown Reno, is between \$500,000 and \$600,000. An estimated 15,000 homes lost power. Heavy snow fell in the mountains of Western Nevada above 5000 feet and in the Lake Tahoe Basin. Amounts ranged from 6 to 12 inches. |
| NVZ003 Extreme Western Nevada | 17 | 0300PST-1600PST | | | 0 | 0 | 0 | 0 | Heavy Snow |
| | | | | | | | | | 4 to 8 inches fell in the valleys of Extreme Western Nevada. Nearly 5 inches was recorded at the Reno-Cannon International Airport. |
| 27 NEW HAMPSHIRE ————— NO REPORT RECEIVED | | | | | | | | | |
| 28 NEW JERSEY, Northern | | | | | | | | | |
| NJZ001-005-007-015 Northern NJ | 08 | 1400EST | | | 0 | 0 | 0 | 0 | Heavy Snow |
| | | | | | | | | | Strong low pressure system formed south of Long Island then moved northeastward over the Atlantic. The snow began to fall just before dawn and by early afternoon the heaviest snowfall was over. Light snow or flurries continued overnight finally ending by dawn. Final accumulations ranged from 6-8 inches across Northern New Jersey. |
| NJZ001 Northwest NJ | 26 | 0100EST-0700EST | | | 0 | 0 | 0 | 0 | Heavy Snow |
| | | | | | | | | | A mixture of rain and snow began to fall around noon and by late afternoon the precipitation had changed to all snow. The heaviest snowfall was during the night tapering off to flurries by morning. Accumulations generally ranged from 8-12 inches, however High Point did report 16 inches. |

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1988

| 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 | |
| 28 NEW JERSEY, Southern | | | | | | | | | |
| NJZ002-004 The Metropolitan Delaware Valley and Interior Portions of Southern New Jersey | 04 | 0400 EST | | | 0 | 0 | 3 | 0 | Heavy Snow |
| | <p>Snow began falling over Southern New Jersey around 7PM on the 3rd and ended 6 to 7 AM on the 4th. The snow was heavy at times and accumulated 3 to 5 inches over the Metropolitan Delaware Valley Zone and 5 to 7 inches over the Southern Interior Zone. The precipitation fell mostly as rain or sleet or freezing rain over Coastal Southern New Jersey and Coastal Delaware Bay. Snow accumulation was an inch or less over these areas.</p> | | | | | | | | |
| NJZ003-004-006 NJZ002 All of Southern New Jersey | 08 | 0600 EST | | | 0 | 0 | 3 | 0 | Heavy Snow |
| | 08 | 0700 EST | | | 0 | 0 | 3 | 0 | Heavy Snow |
| <p>Snow began falling around 11PM on the 7th and ended between 10AM and 1PM on the 8th. The accumulation of snow was: 3 to 6 inches along the Coast, 4 to 6 inches over the Metropolitan Delaware Valley, 5 to 8 inches over Coastal Delaware Bay and 6 to 10 inches over Interior Southern New Jersey.</p> | | | | | | | | | |
| 29 NEW MEXICO | | | | | | | | | |
| Roosevelt and Lea Counties | 6-8 | Wednesday through Friday | | | 0 | 0 | 3 | 0 | Ice Storm |
| <p>Freezing rain and drizzle affected much of the eastern border counties of the state. Damage was limited to the Fortales to Tatum areas. Ice accumulations to three inches were reported in these areas snapping power lines and poles. Around 200 power customers were cut-off for varying amounts of time. Livestock loss was limited to sick and young animals.</p> | | | | | | | | | |
| 30 NEW YORK, Coastal | | | | | | | | | |
| NYZ016-017 Suffolk Co. | 04 | 0800EST | | | 0 | 0 | 0 | 0 | Heavy Snow |
| | <p>A low pressure system moving northeastward along the Atlantic coast deposited 5-7 inches of snow across Long Island during the late night and early morning hours. Dix Hills reported the greatest amount with 7 inches.</p> | | | | | | | | |
| NYZ014-015-016-017 Southeastern NY | 08 | 1400EST-1800EST | | | 0 | 0 | 0 | 0 | Heavy Snow |
| | <p>Strong low pressure system formed south of Long Island then moved northeastward over the Atlantic. The snow began to fall just before dawn and by early afternoon the heaviest snowfall was over. Light snow or flurries continued overnight finally ending by dawn. Final accumulations ranged from 6-8 inches over Rockland and Westchester Counties, 7-10 inches over Long Island and 6-12 inches in the New York Metropolitan area.</p> | | | | | | | | |
| NYZ014 Rockland and Westchester Co. | 26 | 0100EST-0700EST | | | 0 | 0 | 0 | 0 | Heavy Snow |
| <p>A mixture of rain and snow began to fall around noon and by late afternoon the precipitation had changed to all snow. The heaviest snowfall was during the night tapering off to flurries by morning. Accumulations ranged from 6-9 inches.</p> | | | | | | | | | |
| 30 NEW YORK, Central | | | | | | | | | |
| E New York | 07 09 | AM PM | | | 0 | 2 | ? | ? | Arctic cold |
| <p>Arctic cold air moved into Eastern New York during the morning hours of the 7th. Temperatures dipped down to the minus 05-20 degree range. Two (2) persons suffered from frost bite as a result of this Arctic outbreak.</p> <p>Strong gust winds pushed windchill temperatures to minus 40 and lower. As the cold air moved across Lake Ontario, snow squalls brought snow in excess of three (3) feet to portions of Oneida County. In the Village of Boonville, more than 40 persons were stranded as snow drifts shut off roads.</p> | | | | | | | | | |
| NEW YORK, Central | | | | | | | | | |
| Area Wide | 19 20 | Late PM Mid AM | | | 0 | 17 | 5 | ? | Freezing rain, snow and sleet |
| <p>Snow, sleet and freezing rain made all modes of travel extremely dangerous in Eastern New York.</p> | | | | | | | | | |
| Area Wide | 25 26 | PM PM | | | 0 | 3 | 6 | ? | Snowstorm |
| <p>A Nor'Easter snowstorm dumped eight to 19 inches of snow across Eastern New York.</p> | | | | | | | | | |
| Area Wide | 26 30 | AM PM | | | 1 | 0 | ? | ? | Arctic cold |
| <p>Cold Arctic air poured into Eastern New York behind a mid-winter snowstorm. One (1) person died of exposure when she fell on an icy sidewalk and was unable to get back up.</p> <p style="text-align: right;">F-87 O (Delmar, NY)</p> | | | | | | | | | |
| 30 NEW YORK, Western | | | | | | | | | |
| NYZ004 Lewis County: Lowville | 01 | 1845 EST | | | 0 | 0 | 4 | 0 | Heavy Snow |
| <p>Eight inches of snow fell in 2 hours.</p> | | | | | | | | | |
| NYZ001-002-022 Cattaraugus County: Salamanca, Little Valley, S. Dayton Erie County: Gowanda, Springville, Orchard Park, Colden Chautauque County: Sinclairville, Cherry Creek Wyoming County: Warsaw | 04 | Afternoon | | | 0 | 0 | 5 | 0 | Heavy Snow |
| <p>Many schools and a few streets were closed when 7 to 12 inches of snow fell. Orchard Park received 8 inches of snow. In Warsaw, 10 inches fell in 1 1/2 hours.</p> | | | | | | | | | |
| NYZ004 Lewis County: Turin, Lyons Falls, Highmarket, Lowville Oswego County: Fulaski, Redfield | 04 | Evening | | | 0 | 0 | 5 | 0 | Heavy Snow |
| <p>Lake-effect heavy snow began on the evening of the 4th and ended in the afternoon of the 5th. By the early morning of the 5th, 3 feet of snow had fallen in Turin and Lyons Falls. Snow continued through the afternoon, at times falling as much as 4 to 5 inches an hour.</p> <p>Highmarket amassed 69 inches for the event, 55 in Turin. Other areas in the Tug Hill area were buried with 3 to 5 feet of snow.</p> | | | | | | | | | |
| NYZ002-004 Cayuga County Wayne County Oswego County Lewis County | 06 | Evening | | | 0 | 0 | 4 | 0 | Heavy Snow |
| <p>Narrow bands of lake-effect snow dropped 18 to 31 inches of snow overnight.</p> | | | | | | | | | |
| NYZ001-02-22 Chautauque County: Panama, Clymer, Sheridan, Sinclairville, Hartfield Erie County: Livingston County: Cattaraugus County: West Valley Monroe County: Rochester | 13 | 0430 EST | | | 0 | 0 | 4 | 0 | High Wind |
| <p>A cold front with high winds gusting to 62 mph felled trees and power lines.</p> | | | | | | | | | |
| Erie County: West Seneca | 20 | 1645 EST | | | 0 | 0 | 3 | 0 | Ice Jam |
| <p>Ice-jams formed along the Cazenovia Creek at West Seneca (near the Southgate Plaza) and along the Buffalo Creek under the thruway.</p> | | | | | | | | | |
| NYZ001 Erie County: Orchard Park, Depew, Lancaster | 26 | 1000 EST | | | 0 | 0 | 5 | 0 | Heavy Snow |
| <p>Snow squalls began in Buffalo during mid-morning and lasted through early afternoon. Orchard Park received 8 inches. Depew received 12 inches, 10 in Lancaster. The snow disrupted road and air traffic, cancelled meetings, and closed schools.</p> | | | | | | | | | |

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1988

| 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 | | |
| 31 NORTH CAROLINA | | | | | | | | | | |
| NC2005-006-008-014, Central NC | 03 | 1200EST | | | 0 | 0 | 7 | 0 | | Ice Storm |
| Freezing rain spread across central NC from south to north starting at mid day. There was widespread damage to power lines and property - the NC Insurance News Service reported \$4.5 million in damage to homes and autos alone. The storm's effects lasted many days - some areas were without power for almost a week. Many people said this was the worst ice storm since the early 60s. | | | | | | | | | | |
| NC2003-004-005-006-007-008-009-010-011-012-013-014-015, All except coastal NC | 07 | 0600EST-1500EST | | | 0 | 0 | 7 | 0 | | Heavy Snow |
| Heavy snow from an overrunning precipitation pattern spread over the state from west to east. This snow storm was notable because it produced up to a foot of snow across much of the state. In the western part of the state, snow depths were commonly 1.5 feet with Macon county reporting up to 20 inches. Cleanup was very expensive - \$8 million statewide - and schools in most areas were out for about a week. The cold weather following the storm caused the snow to linger, and several deaths were indirectly related to the cold. In the southeastern part of the state, quite a few poultry houses collapsed because of the weight of the snow. | | | | | | | | | | |
| Haywood Co, Maggie Valley | 12 | 2130EST | | | 0 | 0 | 3 | 0 | | TSTM Winds(60) |
| Transylvania Co | 12 | 2130EST | | | 0 | 0 | 3 | 0 | | TSTM Winds |
| A line of thunderstorms moved through western NC during the evening. Trees and power lines were blown down in some areas, and ski operators closed lifts until the storms had passed. | | | | | | | | | | |
| NC2016, SERN NC | 15 | 0900EST | | | 0 | 0 | ? | 0 | | Heavy Snow |
| Up to 7 inches of snow fell in Southport, and 4 to 5 inches elsewhere in the area. The 5 inches at Wilmington Airport was the third greatest 24 hour snowfall for January. The heavy snow was restricted to a heavy band just inland from the coast. | | | | | | | | | | |
| NC2009, Northern Mountains | 25 | 0000EST | | | 0 | 0 | 0 | 0 | | Heavy Snow |
| 4 to 6 inches of snow fell in the northern mountains - mostly at the highest locations. | | | | | | | | | | |
| 32 NORTH DAKOTA | | | | | | | | | | |
| ND2009 North central ND | 03-04 | Night to Morning | | | 0 | 0 | 4 | 0 | | Extreme Cold |
| An outbreak of Arctic air sent temperatures down to 30° below, and the wind chill temperatures down to 95° below, over north-central North Dakota near the Canadian border. | | | | | | | | | | |
| This severe cold created excessive demand for heating in rural areas and communities. The overload forced utilities to shut off heat for up to 16 hours. Temperatures dropped to 50 degrees in homes that did not have an alternate source of heat. | | | | | | | | | | |
| The extreme cold also froze many water and sewage pipes. | | | | | | | | | | |
| ND2002-003-004-005-006-007-008-010-011-012-013-014-015-016-017-018 | 11-12 | 1500CST-1000CST | | | 0 | 1 | 0 | 0 | | Blizzard, Heavy Snow |
| Snow began falling in southwest North Dakota around 0800 CST on the 11th, and spread rapidly into the northwest and south-central sections by Noon. During the afternoon of the 11th, the snow spread over the rest of the state. | | | | | | | | | | |
| The snow ended over west and central North Dakota the night of the 11th. In the east, however, the snow continued to fall and the winter storm intensified into a blizzard as strong winds developed. | | | | | | | | | | |
| The snowfall combined with winds to 50 mph, and reduced visibilities to zero in many parts of eastern North Dakota. Blizzard conditions prevailed in the east most of the morning of the 12th. In addition, wind chill temperatures were down to 60 below zero. The storm subsided there late in the morning of the 12th. | | | | | | | | | | |
| The City of Fargo, northward to the town of Hillsboro, received the most snowfall, 12 to 14 inches. It was the heaviest snowfall for that area since January of 1982. | | | | | | | | | | |
| For parts of northwest and north-central North Dakota, including the City of Minot, it was the first measurable snowfall since the Winter of 1986-87. | | | | | | | | | | |
| — NORTH DAKOTA | | | | | | | | | | |
| ND2009-010-012-013-014-015-016-017-018 | 24 | 0700CST-2100CST | | | 0 | 0 | 4 | 0 | | Blizzard |
| Eastern and North Central North Dakota | | | | | | | | | | |
| The storm closed schools and businesses, cancelled sporting events, caused minor traffic accidents, stranded travelers, cancelled mail deliveries, and cancelled major airline flights at the Hector International Airport at Fargo. | | | | | | | | | | |
| A 35-year-old man was working with a railroad section crew in the storm, about five miles east of Valley City, and was inadvertently left behind when the crew stopped work. He was later taken to a hospital in Valley City and treated for hypothermia. | | | | | | | | | | |
| Only counties along the international border, in northwest and north-central North Dakota, were spared from this storm. | | | | | | | | | | |
| A blizzard developed rapidly over eastern and north-central North Dakota on the morning of the 24th. Light winds, unrestricted visibilities, and temperatures in the 20s changed in one hour to northerly winds of 25 to 45 mph and zero visibilities in snow and blowing snow. Temperatures fell to the single digits by the early afternoon, and below zero by the evening. | | | | | | | | | | |
| Only 1 to 3 inches of new snow fell over the area, but the strong winds and an existing loose snow cover was enough to create blizzard conditions. The storm subsided early the night of the 24th as winds decreased. | | | | | | | | | | |
| The blizzard cancelled airline flights, halted travel and stranded motorists. The storm was indirectly responsible for a three-vehicle accident on Interstate 29 in the southeast corner of North Dakota. One motorist was killed and four others were injured. | | | | | | | | | | |
| 33 OHIO | | | | | | | | | | |
| OH2011 Entire State | 04-07 | Early Morning to Afternoon | | | 1 | ? | ? | 0 | | Bitter Cold |
| Arctic air moving into Ohio caused a significant cold spell. Lowest temperatures on the 5th, 6th, and 7th ranged from about 5 below to 5 above zero statewide. A man in an unheated house in Hamilton died of hypothermia early on the 4th, 1947. | | | | | | | | | | |
| OH2003 Northeast Ohio | 05 | 0530 EST | | | 0 | 0 | ? | 0 | | Heavy Snow |
| Four to 6 inches of snow fell on the area. The snow had started at about 1900 EST on the 4th. Snow fall continued over the area until early afternoon on the 5th, by which time accumulations of 6 to 12 inches were common. | | | | | | | | | | |
| OH2001 Northwest Ohio | 25 | 2220 EST | | | 0 | 0 | ? | 0 | | Heavy Snow |
| OH2006 Central Ohio | 25 | 2340 EST | | | 0 | 0 | ? | 0 | | Heavy Snow |
| OH2002-011 North Central and Central Hills of Ohio | 26 | 0100 EST | | | 0 | 0 | ? | 0 | | Heavy Snow |
| Four to 6 inches of snow fell. The snow had begun during the evening of the 25th. | | | | | | | | | | |
| 34 OKLAHOMA | | | | | | | | | | |
| All | 05-07 | 1800CST-1200CST | | | 5 | 25 | 7 | ? | | Heavy Snow |
| A series of slow moving upper level storm systems produced heavy snow across most of the state. A large portion of the state had ten or more inches of snow with some areas receiving 16 to 18 inches. Strong winds caused drifting with some drifts up to 4 feet deep. Many roads were closed across the state, some for several days. The road closings also forced most schools to close for several days. Drifts of 2 and 3 feet collected on roofs which caused many to collapse while others suffered damage. Damage to collapsed buildings, roofs, and carports is estimated at \$5 million. The cost of snow removal is estimated at over \$10 million. Many automobile accidents occurred but fortunately most were without injury, however 3 persons were killed and 25 injured. A 40 year old man who had been drinking with a friend froze to death within steps of his house. A 76 year old man died while shoveling snow. COLD #400. | | | | | | | | | | |

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1988

| 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 | |

35 OREGON

| | | | | | | | | | |
|---|----------------------------|--|--|--|--|------------|---|--|--|
| ORZ-004 Willamette Valley | 03 2000 pst 04 1000 pst | | | | | 0 ? ? 0 | Freezing Rain | | |
| Weak cold front overran cold air trapped in the valley depositing light freezing rain. numerous traffic accidents and several power outages. | | | | | | | | | |
| Western Oregon | 10 0400 pst 11 0400 pst | | | | | 0 svrl 5 0 | winter storm-snow freezing rain high wind | | |
| A cold front moved across western oregon early on the 10th. a low pressure centered deepened rapidly behind the front within 300 miles west of Astoria. It moved onshore near Astoria about midnight. 24 hour snowfall amounts ranged from 1 to 2 ft or more in the cascade and siskiyou mtns. Freezing rain caused accidents in the Columbia Gorge. Very high winds hit the coast and Willamette Valley with considerable wind damage and power outages to well over 100,000 people. Railroad cars were blown off the tracks near Albany. Wind gusts reached 97 mph at Netarts on the north coast with numerous readings between 70 and 80 mph. Salem had a peak gust of 60 mph. | | | | | | | | | |
| Oregon Coast ORZ-001-002-003 | 13 2000pst 14 0800pst | | | | | 0 ? 5 0 | High Wind-Coastal stream flood | | |
| Low pressure deepened off Vancouver island rapidly with a strong N-S pressure gradient along the Oregon coast. Heavy rains caused minor flooding on several coastal streams. Considerable high wind damage, roofs blown off and tree uprootings. Wind gusts to 75 mph at Lincoln City and Port Orford and peak gust of 71 mph at Astoria. | | | | | | | | | |

36 PENNSYLVANIA, Eastern

| | | | | | | | | | |
|---|---|--|--|--|--|---|--|--|--|
| PAZ012 PAZ009 The Southeast Zone and Lower Susquehanna Valley | 08 0700 EST 08 0900 EST | | | | | 0 0 3 0 0 0 3 0 | Heavy Snow Heavy Snow | | |
| Light snow started falling over Eastern Pennsylvania at 10 to 11 PM on the 7th. The snow became heavy at times over the south just before daybreak on the 8th. The snow became light in the afternoon and ended over the southeast around 1 PM and over the northwest around 5 PM. The accumulations of snow were: Lower Susquehanna Valley 3 to 7 inches, East-Central and Southeast Zones 3 to 6 inches, The Potomac 2 to 6 inches and the Middle and Upper Susquehanna and Northeast Metropolitan Areas 1 to 4 inches. | | | | | | | | | |
| Lancaster County | 26 0830 EST 20 1300 EST | | | | | 0 0 4 0 | Flash Flood | | |
| Several days of above freezing temperatures and heavy rain in the early morning hours of the 20th caused the break up of ice on some streams and the damming of ice against bridges. This resulted in minor flooding and closing of some roads. The Conestoga River at Hinkletown, The Pequea Creek at Bevers Tavern, The Pequea Creek at Herrville and The Mill Creek at Route 234 were some of the spots that flooded. One automobile ended up in a stream, but it was not clear if it was washed into the stream or driven in. By 1 PM the ice damming had decreased enough that streams retreated below flood level. | | | | | | | | | |
| PAZ009 PAZ012 PAZ011 PAZ016 PAZ008-010 All of Eastern Pennsylvania except The Upper Susquehanna Area | 25 1600 EST 25 1900 EST 25 2000 EST 25 2100 EST 25 2200 EST | | | | | 0 0 4 0 0 0 4 0 0 0 4 0 0 0 4 0 0 0 4 0 | Heavy Snow Heavy Snow Heavy Snow Heavy Snow Heavy Snow | | |
| Snow spread from south to north over Eastern Pennsylvania during the late morning and afternoon hours. Although there was some additional light snow, the significant snowfall ended by 5 PM over the south portion of Eastern Pennsylvania and by 1 AM on the 26th over the Northeast. The snow accumulation had reached 4 inches or more by 4 PM over the Lower Susquehanna Zone with final amounts of 8 to 12 inches. The Southeast had 4 or more inches by 7 PM with final amounts of 2 to 8 inches and as much as 12 inches over the far west portion. The East-Central Zone had 6 or more inches by 8 PM and final amounts of 10 to 14 inches. The Potomac had 6 or more inches by 9 PM and final amounts of 10 to 16 inches. The Middle Susquehanna and Northeast Metropolitan Areas had 6 inches or more by 10 PM and final amounts of 6 to 10 inches. The far north sections of the Middle Susquehanna Zone had around 4 inches of accumulation. The Upper Susquehanna Zone had 4 to 6 inches of accumulation with as much as 8 inches in the far eastern sections. The heavy wet snow brought down many tree limbs and utility lines. 100,000 or more customers had power interruptions, with some lasting into Tuesday the 26th. Slippery roadways resulted in many automobile accidents which resulted in one death and at least 40 injuries. There were also two deaths from heart attacks while shoveling snow. | | | | | | | | | |

36 PENNSYLVANIA, Western

| | | | | | | | | | |
|--|------------|----------------------------|--|--|--|---------|-------------|--|--|
| PAZ001-002 Lakeshore and Northwest Pa. | 05 0200EST | | | | | 0 0 0 0 | Heavy Snow | Seven inches fell along the lake shore and twelve inches inland from lake-effect snow. | |
| PAZ002 Northwest Pa. | 06 1400EST | | | | | 0 0 0 0 | Heavy Snow | Six additional inches fell inland from lake-effect snow. | |
| Somerset Co. Middle Creek Township, 9 SW Somerset West Salisbury, 18 S Somerset | 20 0240EST | | | | | 0 0 0 0 | Flash Flood | Flooding from ice jams along Middle Creek caused two and a half foot deep water along a highway in the township. Also flooding along the Casselman River at West Salisbury from ice jams downstream. | |
| PAZ005-006-013-014 Laurel, North and South Central Mountain | 25 2200EST | | | | | 0 0 0 0 | Heavy Snow | Up to six inches fell in the South Central Mountains with up to nine inches in the Laurel Mountains. | |
| 37 RHODE ISLAND | | | | | | | | | |
| RIZALL, Statewide | 08-09 | Afternoon and eve. Morning | | | | 0 0 0 0 | Heavy snow | A coastal storm brought heavy snow to the state with accumulations of 6 to 10 inches. Schools and businesses closed early and commuters left work early as traveling conditions worsened during the storm. | |

38 SOUTH CAROLINA

| | | | | | | | | |
|--|------------|--|--|--|--|---------|------------------------------|---|
| Lancaster County | 03 0700EST | | | | | 0 0 5 0 | Glaze | Glaze resulting from freezing rain caused considerable limb breakage, and disrupted power to about 6,000 homes. Additionally, there was a large number of ice-related traffic accidents. |
| Statewide SC2001,002,003,004 005,006,007,008 | 7-11 | | | | | 0 0 6 0 | Snow, Sleet Freezing rain | An area of low pressure developed over the Mississippi Delta region and moved eastward across Georgia and Florida. This system resulted in the heaviest snowfall since 1930 for northwestern and northern South Carolina; and sleet or freezing rain over the remainder of the State. An unofficial snowfall of 27 inches was reported in the Bad Creek area of Oconee County. Caesars Head measured drifts up to 40 inches. There were several official snow depths of 18 inches reported in the foothills and mountains. The snow turned to sleet in the midlands, where 4.3 inches fell at Columbia. The southern portions of the state experienced freezing rain with accumulations of 1/2 to an inch ice on the south coast. Traffic was slowed by icy roads for several days over much of the state. Numerous ice-related accidents occurred, resulting in damage, injuries and some fatalities. There was considerable limb breakage and power failure in the area of freezing rain near the coast. The heavy snowfall disrupted many activities over the state for several days, with schools closed in northwestern South Carolina for a week or more. The snow and ice cover remained for an unusually long time, with ice on the ground in Central South Carolina through the 18th and at some locations in Northwest South Carolina to the 23rd. The cost of snow removal, disruption of the economy and mitigation activities were very large. |
| Darlington County, Darlington | 08 | | | | | 1 0 0 0 | Low Temperature | A Male, age 67, died of hypothermia while sleeping in an unheated house. M67P |
| Northeast SC SC005,007,008,006 | 15 0400EST | | | | | 0 0 4 0 | Heavy snow | An offshore storm dumped up to four inches of snow over portions of Horry County, with lesser amounts inland over the northeast and eastern part of the State. The western edge of snowfall was along a line from Marlboro, Florence, Clarendon, to Dorchester Counties. |
| Coastal Waters SC2 007,008 | 29 | | | | | 0 0 5 0 | Cold weather | The unusually cold weather during January lowered water temperatures in the shrimp beds along the South Carolina coast causing a heavy kill of white shrimp. Previous heavy kills were in 1977, 1978, 1981, 1984, and 1985. |

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1988

| 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 | |
| 39 SOUTH DAKOTA | | | | | | | | | |
| Todd County, Rosebud | 02 | 1430 MST | | | 1 | 0 | 0 | 0 | Cold |
| | | | | | | | | | A man died of cold air exposure on the Rosebud Indian Reservation. M70. |
| SDZ001-002-003-006 Northwest South Dakota | 11-12 | 2200 to 1300 MST | | | 0 | 0 | 0 | 0 | Blizzard |
| | | | | | | | | | Snow and blowing snow caused near zero visibilities in many areas. Two to six inches of snow fell across the area and some roads were closed. |
| SDZ003-004-005-010-011-012-015-016-017-018-019-020 Eastern South Dakota | 12 | 0500 to 1300 CST | | | 0 | 0 | 0 | 0 | Blizzard |
| | | | | | | | | | Snow and strong winds combined to produce blizzard conditions across eastern South Dakota. Near zero visibilities were common across most of the area. Winds gusted to near 40 mph in many locations and a gust of 54 mph was recorded at Aberdeen. One to five inches of snow fell in southeastern South Dakota. Many roads were closed and numerous vehicle accidents occurred causing minor injuries. |
| SDZ011-012-015-016-017-018-019-020 South-Central and Southeast South Dakota | 18-20 | 2200 to 0500 CST | | | 0 | 0 | 0 | 0 | Winter Storm |
| | | | | | | | | | Six to twenty inches of snow fell across south-central and southeast South Dakota. Snow and blowing snow reduced visibilities to near zero in some locations. Interstate 29 from Sioux Falls to Watertown was closed from late afternoon on the 19th to late morning on the 20th. Interstate 90 from Sioux Falls to Chamberlain was closed from the afternoon of the 19th to late morning of the 20th. The following is a list of snowfall amounts in inches. |
| | | | | | | | | | Tripp 20 Yankton 18 Pickstown and Mitchell 16 Tyndall 15 Wagner, Winner and Platte 12 Sioux Falls 10 Avon 8 |
| SDZ006-008 Southwest South Dakota | 23 | 0500 to 1400 MST | | | 0 | 0 | 4 | 0 | High Wind |
| | | | | | | | | | Strong winds with sustained speeds of more than 40 mph occurred in the Rapid City area. Gusts near 70 mph were reported in the Fort Meade area. The strong winds tore the roof from a hospital in Fort Meade. |
| SDZ011-012-016-017-018-019-020 Eastern South Dakota | 23-24 | 0800 to 1300 CST | | | 1 | 0 | 0 | 0 | Blizzard |
| | | | | | | | | | Snow and blowing snow reduced visibilities to less than a quarter-mile in many areas. Winds gusted to 50 mph in a few locations. Interstate 90 from Sioux Falls to Chamberlain was closed from the afternoon of the 24th to early morning of the 25th because of reduced visibilities and areas blocked from drifting snow. Numerous accidents occurred. A man died from exposure near Lake Poinsett after leaving his vehicle which became stuck during the storm. M710. |
| SDZ006-008 Southwest South Dakota | 24 | 1100 to 1600 MST | | | 0 | 0 | 0 | 0 | High Wind |
| | | | | | | | | | High winds occurred in the Rapid City area on the 24th. A wind gust of 68 mph was recorded at Rapid City. |
| 40 TENNESSEE | | | | | | | | | |
| TNZALL | 06-07 | 0600CST to 2300CST | | | 0 | 0 | 0 | 0 | Winter Storm |
| | | | | | | | | | A major winter storm moved into Tennessee from the Southwest and brought from 5 to 12 inches of snow statewide. The snow and colder temperatures caused the closing of schools, businesses, airlines and made roads slick causing numerous accidents. The snowfall was the deepest in the Nashville area in 20 years. One homeless person died due to exposure when he fell asleep in a parked car and one man died of a heart attack shoveling snow. |
| Haywood County, 4NE Brownsville | 19 | 1130CST | 3.0 | 60 | 1 | 6 | 5 | 0 | Tornado (F2) |
| Fayette County, 2W Moscow to 2SW Mt. Moriah | 19 | 1152CST | 22.0 | 200 | 3 | 24 | 6 | 0 | Tornado (F3) |
| Gibson County, 1E Humbolt to 2SE Gibson | 19 | 1158CST | 4.0 | 60 | 1 | 0 | 5 | 0 | Tornado (F2) |
| Carroll County, Hico | 19 | 1305CST | 1.5 | 30 | 0 | 0 | 4 | 0 | Tornado (F1) |
| | | | | | | | | | Tornadoes hit four counties of west Tennessee in the early part of the day as a cold front approached. A tornado touched down 4 miles northeast of Brownsville in Haywood County at Allen at 1130CST. It traveled northeast to Cobbs Crossing where it destroyed two houses and damaged a third. One man was killed and six people were injured, all in the same house. In Fayette County, a tornado touched down near Moscow at 1152CST and traveled northeast for 22 miles to near Mt. Moriah. It destroyed 33 houses and mobile homes, 12 of which were in the Williston area where 2 men and one woman were killed. In Gibson County near Humbolt, a tornado touched down at 1158CST, causing major damage to a power station. It traveled northeast across farm land and woods to Hamilton Hill Road where it did heavy damage to a barn, injuring 3 horses, then totally destroyed a mobile home with tie-downs. The storm continued northeast across open country to Luckey Road where it destroyed a one-story frame house, killing the woman that was inside. Tornado F47P M68P F68M M41M M43M |
| TNZ012-013-014-015 | 19 | 0930CST to 1500CST | | | 0 | 0 | ? | ? | Flash Flood |
| | | | | | | | | | A major storm system west of the state caused very heavy rain in addition to tornadoes. The heavy rain caused widespread flash flooding in western counties of Tennessee, blocking many roads with damage to roads and to property. |
| TNZ012-013-014-015 | 20 | | | | 0 | 0 | ? | ? | Flood |
| | | | | | | | | | Many of the West Tennessee major tributaries reached or exceeded flood stage during this period following the heavy rains of January 17th and 18th. |
| 41 TEXAS, Northern | | | | | | | | | |
| TXZ019-020-021-022-023-026-027-028-031-032-033 North Central and Northeast Texas | 05-07 | 1700CST-0930CST | | | 0 | 0 | ? | ? | Winter Storm |
| | | | | | | | | | A major winter storm brushed much of North Texas with a coating of freezing rain, sleet, and snow. Accumulations of ice and snow amounted to between two and three inches over the counties along the Red River from west of Wichita Falls to Texarkana, and over Northeast Texas from east of Dallas to Shreveport, Louisiana. Numerous accidents resulted from the icy roads (200 in Dallas County alone), with eight deaths blamed indirectly on the slick roads or other storm parameters. Dallas-Fort Worth Airport was particularly hard hit, with over 600 flights cancelled. Schools and businesses all over North Texas closed early or did not open at all Wednesday and Thursday. Precipitation fell mostly as sleet and snow over the north and north central counties, but in the southern portions of Northeast Texas freezing rain was the rule. Power outages were widespread Wednesday night (the 6th) over Anderson, Cherokee, Rusk, Panola, Nacogdoches, Shelby, San Augustine, and Sabine Counties, where freezing rain collected on pine trees, which then toppled over onto power lines. Also hard hit were poultry houses in Camp, Upshur, Titus, and Wood Counties, when the weight of the ice caused around 100 houses to collapse, killing an estimated 1.75 million chickens. While precipitation ended during the morning of the 7th, roads remained slippery in spots through Sunday the 10th. |

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1988

| 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 | |
| TEXAS, Northern | | | | | | | | | |
| Henderson County: Cedar Creek Res South | 18 | 2247CST | | | 0 | 0 | ? | ? | Hail (0.75) |
| | | | Dime size hail fell near Cedar Creek Reservoir South. | | | | | | |
| Kaufman County: Mabank | 18 | 2300CST | | | 0 | 0 | ? | ? | TSTM Wind and Hail (0.75) |
| | | | A twelve foot tree was blown down in Mabank while dime size hail fell. | | | | | | |
| Van Zandt County: Canton | 18 | 2320CST | | | 0 | 0 | ? | ? | Hail (1.75) |
| 1 NW Grand Saline | 18 | 2350CST | | | 0 | 0 | ? | ? | Hail (1.00) |
| | | | Golf ball size hail was reported at Canton at 2320CST. Dime to nickel size hail covered the ground one mile northwest of Grand Saline at 2350CST. | | | | | | |
| Wood County: 6 N Quitman | 19 | 0007CST | | | 0 | 0 | ? | ? | Hail (1.00) |
| | | | Hail, some the size of quarters, covered the ground 6 miles north of Quitman. | | | | | | |
| Franklin County: Mount Vernon | 19 | 0020CST | | | 0 | 0 | ? | ? | TSTM Wind and Hail (0.75) |
| | | | Several large cedar trees were blown down at Mount Vernon while 3/4 inch hail fell. | | | | | | |
| 41 TEXAS, Southern ————— NONE REPORTED | | | | | | | | | |
| 41 TEXAS, Western | | | | | | | | | |
| Panhandle | 5-8 | | | | 0 | 0 | ? | 0 | Freezing Drizzle Heavy Snowfall |
| | | | A massive winter storm which affected most of West Texas brought freezing drizzle followed by heavy snowfall to the Panhandle. The freezing drizzle, which began on the morning of the 5th and continued into early on the 6th, slickened roadways, walkways, and other exposed objects. The icy conditions resulted in scores of traffic accidents and pedestrian mishaps; but, remarkably, no serious injuries. | | | | | | |
| | | | Heavy snow, most of which fell on the morning of the 6th, accumulated to as much as 9 inches in parts of the Panhandle. Among the heavier totals were: | | | | | | |
| | | | Perryton ---- 9 inches Shamrock ---- 9 inches Borger ----- 8 inches Pampa ----- 7 inches Dumas ----- 5 inches Amarillo ---- 4 inches | | | | | | |
| South Plains | 5-8 | | | | 0 | 0 | ? | 0 | Freezing Drizzle Heavy Snowfall |
| | | | The winter storm that brought serious curtailments to travel in the Panhandle also affected the South Plains. On the morning of the 5th, freezing drizzle slickened roadways and walkways alike so seriously that driving and walking became extremely hazardous. More than 60 motor vehicle wrecks were reported in Lubbock during the morning rush hour on the 5th, with three of those mishaps involving school buses. No serious injuries resulted from the accidents. | | | | | | |
| | | | Snowfall, though lighter than in the Panhandle, was nevertheless substantial. Among the heavier totals were: | | | | | | |
| | | | Paducah ---- 7 inches Spur ----- 4 inches Brownfield -- 3 inches | | | | | | |
| Permian Basin | 5-6 | | | | 1 | 8 | ? | 0 | Freezing Drizzle |
| | | | The effect of the winter storm was treacherous to the Permian Basin, particularly with respect to driving in the Midland-Odessa area. Freezing drizzle fell most of the day from late evening on the 5th through the 6th, glazing roadways. The Department of Public Safety and local law enforcement agencies reported a total of 41 motor vehicle wrecks during the two-day period, resulting in one fatality and eight injuries. The fatality occurred on Interstate 20 (4.3 miles west of Big Spring) when the vehicle driven by Sandra Sims Wade, 27, of Monahans, slid off the icy roadway and overturned. Ms. Wade was crushed inside the vehicle while her three small children received serious injuries. | | | | | | |
| TEXAS, Western | | | | | | | | | |
| Culberson County | 18 | 1500-1900CST | | | 0 | 0 | 0 | 0 | High Wind (63) |
| | | | Very strong easterly winds associated with a strong cold front whistled through Guadalupe Pass. A steady east wind at 51 gusting to 63 knots impeded travel through the mountain pass for several hours, but no damage or injuries were reported due to curtailment of travel in response to High Wind Warnings. | | | | | | |
| 42 UTAH | | | | | | | | | |
| UTZ003 Wasatch Front | 04 | 2140MST | | | 0 | 0 | 1 | 0 | Heavy Snow |
| | | | Seven inches of snow fell at Tooele during the day and early evening hours. The Snow was a contributing factor in 59 traffic accidents in the Salt Lake Valley, one of which was fatal. | | | | | | |
| UTZ003-004-005-006-007-008 Wasatch Front, Uinta Basin, East Carbon County, Sevier Valley, Southeast and Southwest Valleys | 06 | 0430MST | | | 0 | 0 | 1 | 0 | Heavy Snow |
| | | | From 4 to 8 inches of snow fell in most valleys across Utah. A few specific reports of overnight amounts as of 4:30 a.m. included 4 to 6 inches in Salt Lake City, 4 inches at Vernal, 5 inches at Price, 6 inches at Fillmore, 8 inches at San Pete, and 6 inches in Grand County. | | | | | | |
| UTZ003 UTZ010 Wasatch Front Northern Mountains | 08 08 | 1145MST 1320MST | | | 0 0 | 0 0 | 1 1 | 0 0 | Heavy Snow Heavy Snow |
| | | | Overnight snowfall amounts included 4 inches at Hill AFB and 6 inches in South Weber County, 12 inches at the Snowbird ski resort, and 8 to 9 inches at Brighton. | | | | | | |
| UTZ010 UTZ001 UTZ001 UTZ002 UTZ003 UTZ003 UTZ003 UTZ010 Cache Valley, Great Salt Lake Desert, Wasatch Front and Northern Mountains | 11 11 11 11 11 11 11 11 | 0610MST 0708MST 0730MST 0800MST 0853MST 1140MST 1230MST 1430MST | | | 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 | 1 1 1 1 4 1 1 1 | 0 0 0 0 0 0 0 0 | High Wind (G78) High Wind (G67) High Wind (G52) High Wind (G60) High Wind (G51) Heavy Snow Heavy Snow Heavy Snow |
| | | | A vigorous cold front moved through Northwest Utah on this Monday morning. As the front passed various locations, winds shifted to northwest and gusted to as high as 100 mph over the mountain ridgetops and 77 mph in the Cache Valley. The Salt Lake International airport recorded a gust to 59 mph, the Snowbird ski resort 90 mph and a spotter in Trenton reported a gust to 77 mph. At the Salt Lake Airport, two airplanes were blown together, and in Springville, the winds caused damage to some house trailers. A period of heavy snow followed the strong winds, and as much as 2 inches per hour fell in some locations. From 4 to 6 inches accumulated along the Wasatch Front during the morning hours, and the Alta ski resort reported 11 new inches as of 2:30 p.m. MST. blowing snow and slick roads were blamed for a 50 car pileup on I-15 just south of Point of the Mountain, and a fatal head on collision in Heber City. | | | | | | |
| UTZ010 Northern Mountains | 15 | 1100MST | | | 0 | 0 | 1 | 0 | High Wind (G74) |
| | | | Strong cold front winds gusted to as high as 85 mph in some mountain locations. The Logan Peak wind recorder showed a gust to 66 mph, 85 at Snowbird's Hidden Peak, and 65 mph at Alta ski resort. | | | | | | |
| UTZ010-003-005 UTZ011 Wasatch Front, East Carbon County, and Mountains | 17 17 | 0415MST 1430MST | | | 0 0 | 0 0 | 1 1 | 0 0 | Heavy Snow Heavy Snow |
| | | | A Pacific cold front moved into Northwest Utah and produced heavy snow. The Utah Department of Transportation reported that 10 inches of new snow had accumulated on Soldier Summit by early morning. Price had received 5 new inches and Orem 4 inches by the same time. The UHP in Monticello reported 8 new inches by early afternoon, and a spotter at Duck Creek reported a storm total of 14 inches. | | | | | | |
| UTZ005-008-010-011 UTZ006-008-011 East Carbon County Southwest Valleys, Southeast Valleys, and Mountains | 18 18 | 0245MST 0620MST | | | 0 0 | 0 0 | 1 1 | 0 0 | Heavy Snow Heavy Snow |
| | | | The Pacific storm system that had moved into northern parts of Utah on the 17th, developed further and produced even more snow in the southern part of the state on the Monday the 18th. By the early morning hours 4 to 6 inches of snow had fallen in the valleys and 10 to 12 inches in the mountains in southern and eastern sections of the state. The Utah highway patrol reported an additional 4 inches in the Price area, 4 inches in Green River, and 10 to 12 inches in Castledele. By around sunrise, 8 inches of new snow had fallen in the Cedar City area and a report from Kenab indicated that up to 10 inches of new snow had accumulated there. By the time the storm moved east of the state late Monday, the southern mountain areas had received two feet of new snow and the valleys from 6 to 10 inches. | | | | | | |

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1988

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS | | ESTIMATED ¹ DAMAGE | | CHARACTER OF STORM |
|--|------|-----------------------|------------------------|-----------------------|----------------|---------|-------------------------------|-------|--------------------|
| | | | | | KILLED | INJURED | PROPERTY | CROPS | |
| UTAH | | | | | | | | | |
| UTZ010 Northern Mountains | 21 | 1100MST | | | 0 | 0 | 1 | 0 | High Wind |
| A peak wind gust recorder at Hidden Peak recorded a gust of 102 mph during the late morning hours. | | | | | | | | | |
| UTZ010 Northern Mountains | 23 | 0800MST | | | 0 | 0 | 1 | 0 | High Wind |
| A second gust of over 100 mph in two days was recorded at Hidden Peak when a 102 mph gust occurred. | | | | | | | | | |
| 43 VERMONT ————— NONE REPORTED | | | | | | | | | |
| 44 VIRGINIA | | | | | | | | | |
| VAZ015-016 | 7 | 0530EST | | | 0 | 0 | 3 | 0 | Winter Storm |
| VAZ008-009-013-014 | 7 | 0900EST | | | 0 | 0 | 3 | 0 | Winter Storm |
| VAZ006-007-010-012-018 | 7 | 1510EST | | | 0 | 0 | 4 | 0 | Winter Storm |
| VAZ001-002-003-004-017 | 7 | 1700EST | | | 0 | 0 | 4 | 0 | Winter Storm |
| VAZ005-011 | 7 | 1820EST | | | 0 | 0 | 3 | 0 | Winter Storm |
| Snow began in southwestern Virginia early January 7, spreading northeast, reaching the Washington suburbs by 1800EST. The snow mixed with and/or changed to sleet and rain along the coastal sections. The precipitation ended by midday on the 8th. Totals reached 7 to 10 inches in northeastern counties (zones 6, 17 and western part of 4), and the southwest foothills (eastern parts of zones 14 and 15 and western portions of zones 8 and 9). Elsewhere snowfall averaged 5 to 8 inches except 3 to 5 inches along the coast. | | | | | | | | | |
| VAZ011-012 | 25 | 1200EST | | | 0 | 0 | 3 | 0 | Winter Storm |
| VAZ005-010 | 25 | 1700EST | | | 0 | 0 | 3 | 0 | Winter Storm |
| Snow began in the northern foothills then spreading eastward into the Washington suburbs. Amounts averaged 5 to 8 inches east of the mountains and 8 to 12 inches in the mountains. | | | | | | | | | |
| 45 WASHINGTON | | | | | | | | | |
| Clark county | 10 | 2340PST | | | 0 | 0 | 4 | 0 | High Wind |
| As a Pacific Low Pressure center moved directly over the state, strong pressure gradient winds up to 60 miles an hour (mph) developed. Trees falling on power lines caused numerous power outages. One house near Vancouver, Wa. was hit by a falling tree. Also, a barn roof was blown off by the strong winds and a lean-to attached to the barn was destroyed. | | | | | | | | | |
| South Washington Coast, Skagit County, Eastern King County | 14 | 0500PST | | | 0 | 0 | 4 | 0 | High Wind |
| | 14 | 0600PST | | | 0 | 0 | 0 | 0 | Heavy Snow |
| During the early morning hours, a warm front moved over Western Washington from the southwest. Areas in the lowlands experienced strong winds along with moderate rainfall. In the Cascades, up to 22 inches of snow at Snoqualmie Pass closed Interstate 90 for 3 hours while crews performed avalanche control work. On the Washington coast, peak gusts were 80 mph on the Long Beach peninsula and 70 mph at Ocean Shores. Falling trees blocked roads and caused power outages. In Enumclaw, 40 miles SE of Seattle, two barn roofs were damaged by High Winds and in Mount Vernon, trees adjacent to a recent clear-cutting operation were blown onto neighboring houses. | | | | | | | | | |
| WASHINGTON | | | | | | | | | |
| Western Washington | 15 | 1800PST | | | 0 | 0 | 5 | 0 | High Wind |
| An area of low pressure formed off of the mouth of the Columbia River late in the afternoon and moved northward during the evening over Western Washington and into mainland British Columbia. Peak gusts around the region were 84 mph at Ocean Shores, 72 mph at Friday Harbor in the San Juan Islands, 65 mph at the Evergreen Pt. Bridge in Seattle and 50 mph at Everett. Strong winds forced the closure of the Hood Canal Floating Bridge for about 90 minutes. Near Bremerton, a mudslide swept a mobile home down a waterfront slope when a section of hillside collapsed because of strong wind and heavy rain. Falling trees damaged houses in Ocean Shores, Gig Harbor, Stanwood, Olympia and South Snohomish County. Power outages were widespread with some parts of Whidbey Island waiting 18 hours for electricity to be restored. | | | | | | | | | |
| 46 WEST VIRGINIA ————— NONE REPORTED | | | | | | | | | |
| 47 WISCONSIN | | | | | | | | | |
| WIZ001-002-003-004-006 | 11 | Evening into | | | 0 | 0 | 0 | 0 | Heavy Snow |
| | 12 | Early Afternoon | | | | | | | |
| Northwest and North Central Wisconsin | | | | | | | | | |
| From 6 to 14 inches of snow fell across Northwest and North-Central Wisconsin. Poplar (Douglas County) picked up 14 inches, while a foot was deposited across portions of Bayfield county. Minong (Washburn County) received 11 inches. Winds of 30 to 40 mph whipped the snow around forcing the closing of schools and businesses in Ashland, Barron, Burnett, Iron, Polk, Sawyer and Washburn counties. In addition a portion of U.S. Highway 2 was closed because of the drifting snow and zero visibility. | | | | | | | | | |
| WIZ001-002-003-004-005-006-007-008-009-010-011-012-013-014-015 | 19 | Mid Morning into | | | 0 | 0 | 5 | 0 | Heavy Snow |
| | 20 | Late Morning | | | | | | | |
| All but Southeast Wisconsin | | | | | | | | | |
| A major winter storm dumped from 6 to 12 inches of snow across all but Southeast Wisconsin. Neenah and Oshkosh (Winnebago County) reported 12 inches of snow as well as portions of Kewaunee, Adams and Richland counties. In Northwest Wisconsin a band of 8 to 12 inches fell with a foot noted at Sarona (Washburn County) and in parts of Sawyer county. In the Lake Superior snowbelt region a 12 inch area of snow reached from Mellen to Drummond in Ashland county. At least 3 people died from apparent heart attacks while shoveling the snow. The heavy snow collapsed a barn near Sheboygan and closed numerous schools and businesses. | | | | | | | | | |
| WIZ001-002 | 24 | Evening into | | | 0 | 0 | 0 | 0 | Heavy Snow |
| Lake Superior Snowbelt Region | 25 | Early Afternoon | | | | | | | |
| Northwest Wisconsin | | | | | | | | | |
| Cold air flowing over the waters of Lake Superior generated heavy lake snow in the Lake Superior snow belt of Northwest Wisconsin. Snow amounts of 8 to 20 inches were reported over Northern Douglas, Bayfield and Ashland counties, with Mellen (Ashland County) picking up 20 inches of snow. | | | | | | | | | |
| WIZ011-012-013-015-016-019 | 25 | Early Morning into | | | 0 | 0 | 0 | 0 | Heavy Snow |
| | | Evening | | | | | | | |
| Southeastern and Eastcentral Wisconsin | | | | | | | | | |
| A band of snow from 6 to 15 inches fell over portions of Southeastern and Eastcentral Wisconsin. The snow closed portions of Interstate 90-94 and Interstate 43 as strong winds caused white-out conditions and pushed the snow into 2 to 4 foot drifts. Numerous accidents took place. Schools and businesses closed early. In Manitowoc, (Manitowoc County) 12 to 15 inches of snow fell while a foot of snow was deposited across Columbia county. | | | | | | | | | |

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1988

| 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 | |
| 48 WYOMING | | | | | | | | | |
| WY2013 SOUTHWEST | 5 | 0200 TO 0800MST | | | 0 | 0 | 0 | 0 | SNOW |
| | | | | | | | | | FOUR TO FIVE INCHES OF NEW SNOW FELL AT KEMMERER. |
| WY2016 LARAMIE VALLEY | 5 | 0100 TO 1000MST | | | 0 | 0 | 0 | 0 | HEAVY SNOW |
| | | | | | | | | | A STORM MOVED THROUGH SOUTH CENTRAL WYOMING AND DEPOSITED BETWEEN 5 TO 8 INCHES OF NEW SNOW FROM SARATOGA TO SYBILLE RESEARCH UNIT...NORTHEAST OF LARAMIE. |
| WY2001-007 NORTHWEST AND WESTERN MOUNTAINS | 8 9 | 0400 TO 1400MST | | | 0 | 0 | 0 | 0 | HEAVY SNOW |
| | | | | | | | | | A STRONG MOIST WESTERLY FLOW DROPPED BETWEEN 9 TO 20 INCHES OF NEW SNOW FROM AFTON NORTH TO YELLOWSTONE NATIONAL PARK. TETON SKI RESORT REPORTED 20 INCHES OF NEW SNOW ABOVE THE 9000 FOOT LEVEL. |
| WY2001 NORTHWEST MOUNTAINS | 9 10 | 1800 TO 0700MST | | | 0 | 0 | 0 | 0 | HEAVY SNOW |
| WY2009 WIND RIVER MOUNTAINS | 10 | 0000 TO 0900MST | | | 0 | 0 | 0 | 0 | HIGH WIND |
| WY2015-016- 017 SOUTHEAST CORNER | 10 | 0000 TO 1800MST | | | 0 | 0 | 0 | 0 | HIGH WIND |
| CARBON COUNTY | 10 | 0000 TO 1800MST | | | 0 | 0 | 0 | 0 | HIGH WIND |
| | | | | | | | | | STRONG...MOIST WESTERLY FLOW CONTINUED TO PREVAIL OVER WYOMING. FOUR TO TWELVE INCHES OF NEW SNOW WAS DEPOSITED OVER FAR WEST FROM AFTON NORTH TO YELLOWSTONE NATIONAL PARK. ALSO...SUSTAINED WINDS OF 40 TO 55 MPH WITH GUSTS OF 60 TO 75 MPH BLEW FROM SOUTH PASS SOUTHEAST TO CHEYENNE. THE STRONGEST WINDS WERE CLOCKED ABOUT 20 MILES SOUTH OF LANDER NEAR SOUTH PASS. THE HIGHWAY DEPARTMENT AT SOUTH PASS AROUND 0700 MST OBSERVED SUSTAINED WINDS OF 50 TO 60 MPH WITH GUSTS OF 75 MPH. INTERSTATE 80 FROM ROCK SPRINGS TO CHEYENNE WAS CLOSED FOR PERIODS OF TIME DUE TO BLOWING AND DRIFTING SNOW. VISIBILITIES WERE FREQUENTLY BELOW ONE MILE IN THE BLOWING AND DRIFTING SNOW. |
| WY20W WEST WYOMING | 10 11 | 1800 TO 1500MST | | | 0 | 0 | 0 | 0 | HEAVY SNOW |
| TETON CO. TETON VILLAGE | 11 | 0500MST | | | 0 | 0 | ? | 0 | HIGH WIND |
| WY2008-009- 010 GREEN RIVER BASIN TO WIND RIVER MTNS AND BASIN | 11 | 0525MST | | | 0 | 0 | 0 | 0 | WIND |
| WY2006 NORTHEAST PLAINS | 11 | 0700MST | | | 0 | 0 | 0 | 0 | WIND |
| WY20SE SOUTHEAST WY | 11 | 0800 TO 1700MST | | | 0 | 1 | ? | 0 | HIGH WIND |
| CARBON CO. | 11 | 0800 TO 1700MST | | | 0 | 0 | ? | 0 | HIGH WIND |
| | | | | | | | | | A COLD FRONT BLITZED INTO FAR WEST WYOMING AND PRODUCED THUNDERSTORMS AND EIGHT TO TWENTY INCHES OF NEW SNOW FROM KEMMERER NORTH TO YELLOWSTONE NATIONAL PARK. AROUND 0500 MST WIND GUSTS OF 115 MPH WERE RECORDED AT THE TOP OF RENDEZVOUS PEAK AT THE TETON VILLAGE SKI RESORT. WIND GUSTS OF 50 TO 55 MPH RAKED ACROSS THE GREEN RIVER TO WIND RIVER BASIN AROUND 0530 MST. THESE STRONG WINDS CAUSED SHORT POWER OUTAGES AT BIG PINEY AND PINEDALE DURING THE MORNING OF THE 11. ALSO...WIND GUSTS TO 55 MPH WERE NOTED IN THE GILLETTE AREA AROUND 0700 MST. AS THIS COLD FRONT MOVED THROUGH SOUTHEAST WYOMING AND CARBON COUNTY SUSTAINED WINDS OF 35 TO 45 MPH WITH GUSTS OF 55 TO AROUND 70 MPH WERE LOGGED. ONE PEAK WIND GUST OVER THE SOUTHEAST PART OF CASPER REACHED 68 MPH AT 1000 MST WITH 71 MPH AT RAWLINS AIRPORT AT 1300 MST. DURING THESE HIGH WINDS SEVERAL TRACTOR TRAILER TRUCKS WERE KNOCKED DOWN BETWEEN HANSHUTTER TO LARAMIE ALONG I-80. TRUCK DRIVERS ALONG THE INTERSTATE COMPLAINED THE STRONG WINDS WERE TREATING THEIR SEMI-TRACTOR TRAILERS "LIKE |
| WYOMING | | | | | | | | | |
| | | | | | | | | | KITES PULLING WHICHEVER WAY THE WIND WAS BLOWING." ONE MAN WAS INJURED ON I-80 WHEN TWO TRACTOR TRAILERS COLLIDED. |
| WY2004 BIG HORN MOUNTAINS | 11 12 | 2200 TO 0600MST | | | 0 | 0 | 0 | 0 | SNOW |
| | | | | | | | | | SIX INCHES OF NEW SNOW FELL AT BURGESS JUNCTION IN THE BIG HORN MOUNTAINS. |
| WY2002 NORTHWEST CHINOOK | 14 | 0200 TO 1000MST | | | 0 | 0 | ? | 0 | HIGH WIND |
| WY2011-0SE CENTRAL PLAINS SOUTHEAST WY | 14 | 0400 TO 1700MST | | | 0 | 0 | ? | 0 | HIGH WIND |
| CARBON CO. MUPPY GAP | 14 | 0400 TO 1700MST | | | 0 | 0 | 0 | 0 | HIGH WIND |
| | | | | | | | | | STRONG UPPER LEVEL WESTERLY WINDS MIXED DOWN TO THE SURFACE AROUND 0500 MST AND GUSTED TO 60 MPH AT CODY AIRPORT. VERY STRONG WINDS OF 35 TO 45 MPH WITH GUSTS OF 51 TO 82 MPH WERE CLOCKED OVER THE CENTRAL PLAINS AND SOUTHEAST WYOMING. AIR FORCE PERSONNEL ABOUT 25 TO 30 MILES NORTH OF CHEYENNE REPORTED WIND GUSTS OF 82 MPH. ALSO...MUDDY GAP IN NORTHERN CARBON COUNTY LOGGED SUSTAINED WINDS OF 45 MPH WITH GUSTS OF 67 MPH. OVER 25 AUTO ACCIDENTS OCCURRED WITH THE WINDS AND ASSOCIATED AREAS OF BLOWING AND DRIFTING SNOW. VISIBILITIES WERE FREQUENTLY BELOW ONE MILE IN THE BLOWING AND DRIFTING SNOW. A SMALL PLANE WAS ROLLED OVER AT THE NATRONA COUNTY AIRPORT WEST OF CASPER DUE TO THE HIGH WINDS. THE PILOT WAS NOT INJURED. |
| WY2001-002 NORTHWEST MOUNTAINS AND NORTHWEST CHINOOK | 15 16 | 0600 TO 1300MST | | | 0 | 0 | 0 | 0 | HEAVY SNOW |
| WY2015-016 SOUTH CENTRAL WY | 15 16 | 0700 TO 0800MST | | | 0 | 0 | 0 | 0 | HIGH WIND |
| WY2011-0SE CENTRAL PLAINS AND SOUTHEAST WY | 15 16 | 1500 TO 0800MST | | | 0 | 0 | ? | 0 | SNOW |
| WY2017 SOUTHEAST PLAINS | 15 16 | 1700 TO 0800MST | | | 0 | 0 | 0 | 0 | HEAVY SNOW |
| WY2011-0SE CENTRAL PLAINS AND SOUTHEAST WY | 15 16 | 1830 TO 0800MST | | | 0 | 0 | ? | 0 | HIGH WIND |
| | | | | | | | | | AN INTENSE UPPER LEVEL WESTERLY FLOW COMBINED WITH THE TOPOGRAPHY TO PRODUCE AREAS OF HEAVY SNOW AND HIGH WIND CONDITIONS. SNOWFALL TOTALS OF 6 TO 14 INCHES WERE DEPOSITED OVER THE NORTHWEST FROM ALTA TO THE OREGON BASIN. SNOWFALL TOTALS OF 3 TO 5 INCHES WERE COMMON FROM THE CENTRAL PLAINS TO THE SOUTHEAST PLAINS FROM THE AFTERNOON OF THE 15 TO THE MORNING OF THE 16. HIGHER SNOWFALL TOTALS OF 10 TO 12 INCHES WERE REPORTED AT CURT COMDY STATE PARK IN THE LARAMIE MOUNTAINS WEST OF CHEYENNE. THIS INTENSE WESTERLY FLOW MIXED DOWN TO THE SURFACE AND ACCELERATED WINDS TO 35 TO 45 MPH WITH GUSTS FROM 55 TO 60 MPH ACROSS CENTRAL AND SOUTHEAST WYOMING. GUSTY WINDS CAUSED BLOWING SNOW AND ICY ROADS BETWEEN RAWLINS AND LARAMIE. NUMEROUS VEHICLES SLID OFF ROADWAYS ALONG WITH JACK-KNIFED SEMI-TRACTOR TRAILERS. |
| WY2010-011 0SE CENTRAL AND SOUTHEAST WY | 18 19 | 0900 TO 1000MST | | | 0 | 0 | 0 | 0 | WINTER STORM |
| | | | | | | | | | A WINTER STORM BLANKETED CENTRAL THROUGH SOUTHEAST WYOMING WITH 5 TO 12 INCHES OF NEW SNOW. THE MOST NOTICABLE SNOWFALL OCCURRED WEST OF CHEYENNE IN THE LARAMIE MOUNTAINS WITH 10 TO 12 INCHES. NEAR ALBIN AND PINE BLUFFS 7 TO 10 INCHES WERE COMMON. WINDS 20 TO 35 MPH WIPED THE SNOW INTO WIDESPREAD DRIFTS 4 TO 8 FEET TALL FROM CASPER SOUTHEAST TO PINE BLUFFS. NUMEROUS ROADS WERE CLOSED FOR A TIME ALL ACROSS SOUTHEAST WYOMING. |
| WY2011 CENTRAL PLAINS | 20 21 | 0600 TO 0600MST | | | 0 | 0 | 0 | 0 | SNOW |
| | | | | | | | | | SIX INCHES OF NEW SNOW WAS DEPOSITED AT BATES CREEK ABOUT 20 MILES SOUTH OF CASPER AIRPORT. |

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1988

| 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 | |
| WYOMING | | | | | | | | | |
| WYZ004 BIG HORN MOUNTAINS | 21 | 0600 TO | | | 0 | 0 | 0 | 0 | HEAVY SNOW |
| | 22 | 0600MST | | | | | | | |
| WYZ017 SOUTHEAST PLAINS | 22 | 1000 TO | | | 0 | 0 | 0 | 0 | HIGH WIND |
| | | 1800MST | | | | | | | |
| WYZ002 NORTHWEST CHINOOK | 22 | 1000 TO | | | 0 | 0 | 3 | 0 | HIGH WIND |
| | 23 | 0300MST | | | | | | | |
| | A STRONG NORTHWEST FLOW OF AIR OVER WYOMING DEPOSITED 12 INCHES OF NEW SNOW OVER THE BIG HORN MOUNTAINS. THESE WINDS ALSO MIXED DOWN TO THE SURFACE AND PRODUCED WIND GUSTS FROM 60 TO 75 MPH AT CRYSTAL RESERVOIR AND POWELL. THE HIGH WINDS AT POWELL SNAPPED A POWER POLE AND CAUSED A SHORT POWER OUTAGE IN TOWN. | | | | | | | | |
| WYZ003-004 005 NORTH CENTRAL WY | 23 | 0000 TO | | | 0 | 0 | ? | 0 | HIGH WIND |
| | | 0700MST | | | | | | | |
| WYZ011-05E CENTRAL PLAINS TO SOUTHEAST WY | 23 | 0000 TO | | | 0 | 0 | ? | 0 | HIGH WIND |
| | | 1000MST | | | | | | | |
| WYZ015 SOUTHERN MOUNTAINS | 23 | 0000 TO | | | 0 | 0 | 0 | 0 | SNOW |
| | | 2000MST | | | | | | | |
| | A VERY STRONG UPPER LEVEL NORTHWEST FLOW OF AIR OVER WYOMING MIXED DOWN AN ACCELERATED SURFACE WINDS TO 30 TO 45 MPH WITH GUSTS 55 TO 70 MPH FROM NORTH-CENTRAL TO SOUTHEAST WYOMING. THE MOST NOTICABLE WIND GUSTS WERE AT ARLINGTON 65 MPH...CASPER...70 MPH...CHEYENNE...58 MPH...AND SHERIDAN 71 MPH. ALSO...THIS STRONG NORTHERLY AIRFLOW HELPED TO DUMP 5 INCHES OF NEW SNOW ABOUT 25 MILES WEST OF LARAMIE NEAR CENTENNIAL. MOST ROADS WERE CLOSED OVER SOUTH-CENTRAL AND SOUTHEAST WYOMING DUE TO BLOWING AND DRIFTING SNOW. VISIBILITIES WERE REDUCED BELOW ONE MILE IN THE BLOWING SNOW. | | | | | | | | |
| WYZ0E EAST WY | 24 | 0000 TO | | | 0 | 0 | 5 | 0 | HIGH WIND |
| | 25 | 1000MST | | | | | | | |
| WYZ004-006 BIG HORN MOUNTAINS AND NORTHEAST PLAINS | 24 | 0000 TO | | | 0 | 0 | 0 | 0 | SNOW |
| | 25 | 0300MST | | | | | | | |
| | VERY STRONG UPPER LEVEL NORTHERLY FLOW OF AIR CONTINUED TO PREVAIL OVER EASTERN WYOMING. THIS STRONG FLOW OF AIR INDUCED STRONG SURFACE WINDS OF 35 TO 45 MPH WITH GUSTS OF 55 TO AROUND 70 MPH. PEAK WIND GUSTS OF 72 MPH FROM 0400 TO 0600 MST ON JANUARY 24 FLIPPED OVER A FAIRLY LARGE MOBILE HOME ON TO TWO CARS IN THE GILLETTE AREA. ALSO...THESE STRONG WINDS TOOK THE ROOF OFF A HOUSE 4 MILES WEST OF GILLETTE. A POWER PLANT NORTHEAST OF WHEATLAND CLOCKED WIND GUSTS OF 70 MPH FROM 0200 TO 0630 MST ON JANUARY 24. FROM 2000 MST ON JANUARY 24 TO 1000 MST ON JANUARY 25 SUSTAINED WINDS OF 35 TO 45 MPH WERE CLOCKED WITH GUSTS NEAR 58 MPH FROM ARLINGTON TO CHEYENNE ALONG I-80 OVER SOUTHERN WYOMING. THIS VERY STRONG UPPER LEVEL NORTHERLY FLOW DUMPED 10 INCHES OF SNOW AT BURGESS JUNCTION IN THE BIG HORN MOUNTAINS AND 5 INCHES OVER THE BLACK HILLS NEAR SUNDANCE. THESE STRONG WINDS PRODUCED SNOW DRIFTS OF 14 TO 16 FOOT DEPTH OVER THE SOUTHEAST. NUMEROUS ROADS WERE CLOSED OVER EAST WYOMING DUE TO STRONG WINDS AND THE ASSOCIATED SNOW DRIFTS. THE NATIONAL GUARD HAD TO DIG OUT STRANDED RANCH FAMILIES IN SOUTHERN GOSHEN COUNTY. | | | | | | | | |
| WYZ001 NORTHWEST | 29 | 1400 TO | | | 0 | 0 | 0 | 0 | HEAVY SNOW |
| | 30 | 0800MST | | | | | | | |
| | A MOIST WESTERLY FLOW COMBINED WITH A PACIFIC COLD FRONT DEPOSITED 6 TO 14 INCHES OF SNOW. THE SOUTH ENTRANCE TO YELLOWSTONE NATIONAL PARK RECORDED THE HIGHEST TOTAL WITH 14 INCHES OF SNOW. | | | | | | | | |
| WYZ001-004 NORTHWEST MOUNTAINS AND BIG HORN MOUNTAINS | 30 | 1500 TO | | | 0 | 0 | 0 | 0 | SNOW |
| | 31 | 0800MST | | | | | | | |
| | FOUR TO SEVEN INCHES OF SNOW FELL ACROSS THE HIGHER ELEVATIONS OF NORTHERN WYOMING. | | | | | | | | |
| ALASKA | | | | | | | | | |
| 49 ALASKA, Northern | NO REPORT RECEIVED | | | | | | | | |
| ALASKA, Southern | | | | | | | | | |
| ALASKA PENINSULA | 29 | 1600AST | | | 0 | 0 | 0 | 0 | High Wind |
| | A strong weather front caused 63 mph gusts at Cold Bay. | | | | | | | | |
| ALASKA, Southeastern | | | | | | | | | |
| Southern SE Alaska | 21 | | | | 0 | 0 | 3 | 0 | High Winds |
| | An intense occluded front crossed the Southeast Alaska Panhandle on the 21st driving winds to over 90 mph at the U.S. Coast Guard base at Ketchikan and approaching 70 mph at Metlakatla. A downed tree caused a one hour power outage and at least one small skiff torn loose from its dock in Ketchikan. | | | | | | | | |
| HAWAII | | | | | | | | | |
| Kauai, Oahu and Maui | 28-29 | | | | 0 | 0 | 5 | 0 | Flash Flooding |
| | Heavy thunderstorms dropping as much as 10 inches of rain over eastern Kauai with lesser amounts on Oahu and Maui county during the afternoon and evening hours of the 28th caused some flash flooding including a washout of a small bridge on west Maui. Rainfall and flooding extended into the forenoon hours on the 29th in some areas. | | | | | | | | |
| PUERTO RICO | | | | | | | | | |
| 51 PUERTO RICO | NONE REPORTED | | | | | | | | |
| VIRGIN ISLANDS | | | | | | | | | |
| 52 VIRGIN ISLANDS | NONE REPORTED | | | | | | | | |
| PACIFIC | | | | | | | | | |
| Marshall Islands | 7-9 | | | | 1 | 1 | 7 | ? | Typhoon Roy |
| Marianas Islands | 12-13 | | | | 0 | 3 | 7 | 6 | Typhoon Roy |
| | Typhoon Roy developed within the Marshall Islands in the vicinity of Majuro on January 7th. Roy was a relatively rare January typhoon and another example of twin tropical cyclone development mirror imaged on the Equator with the southern hemisphere one being Anne. Roy moved close to Kwajalein on the 8th and 9th while strengthening. There was some damage to the Kwajalein Army Base, however, nearby Ebeye was hard hit. High water and wave action destroyed nearly one third of the oceanside homes forcing 2000 people to seek shelter in nearby churches and schools. Preliminary damage estimates for Ebeye were placed at more than \$5 million. From the Marshalls, Roy moved toward the Marianas. It passed about 20 miles north of Guam at 1000 UTC on the 12th with maximum sustained winds then estimated at 125 mph near the center. The small island of Rota was within these extreme winds and received considerable damage estimated at \$2.5 million to structures and \$2 million to crops. Saipan and Tinian farther north received only minor damage. On the island of Guam to the south of the track winds gusted locally above 100 mph and damage was extensive. Damage to private homes were estimated at \$10.5 million, to businesses \$8.8 million, to government facilities \$2.7 million, and to agriculture \$1.5 million. There were no fatalities on Guam or Rota and injuries were considered minor due to flying debris or glass. From the Marianas, Roy moved westward into the Philippines. | | | | | | | | |

LATE REPORTS

NONE

CORRECTIONS

NONE

STORM SUMMARY

JANUARY 1988

| TYPE | ALABAMA | ARIZONA | ARKANSAS | CALIFORNIA | COLORADO | CONNECTICUT | DELAWARE | FLORIDA | GEORGIA | IDAHO | ILLINOIS | INDIANA | IOWA | KANSAS | KENTUCKY | LOUISIANA | MAINE | MARYLAND & DC | MASSACHUSETTS | MICHIGAN | MINNESOTA | MISSISSIPPI | MISSOURI | MONTANA | NEBRASKA | NEVADA | NEW HAMPSHIRE |
|----------------------------------|---------|---------|----------|------------|----------|-------------|----------|---------|---------|-------|----------|---------|------|--------|----------|-----------|-------|---------------|---------------|----------|-----------|-------------|----------|---------|----------|--------|---------------|
| TORNADOES | | | | | | 0 | | | | | 0 | | | | | | ## | | 0 | 0 | | | 0 | | | | ## |
| Number | 3 | | 1 | 2 | | | | 1 | | | | | | | | | | | | | | | 6 | | | | |
| Days | 1 | | 1 | 1 | | | | 1 | | | | | | | | | | | | | | 1 | | | | | |
| Deaths | 0 | | 0 | 0 | | | | 0 | | | | | | | | | | | | | | 0 | | | | | |
| Injuries | 35 | | 13 | 0 | | | | 3 | | | | | | | | | | | | | | 12 | | | | | |
| Property Damage | 7 | | 6 | 4 | | | | 5 | | | | | | | | | | | | | | 6 | | | | | |
| Crop Damage | 5 | | 0 | ? | | | | 0 | | | | | | | | | | | | | | 0 | | | | | |
| HAIL | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deaths | | | | | | | | | | | | | | | | | 0 | | | | | 0 | | | | | |
| Injuries | | | | | | | | | | | | | | | | | 0 | | | | | 0 | | | | | |
| Property Damage | | | | | | | | | | | | | | | | | ? | | | | | ? | | | | | |
| Crop Damage | | | | | | | | | | | | | | | | | ? | | | | | 0 | | | | | |
| THUNDERSTORM WINDS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deaths | 0 | | | | | | | 0 | 0 | | | | | | | 0 | | | | | | 0 | | | | | |
| Injuries | 0 | | | | | | | 5 | 0 | | | | | | | 0 | | | | | | 0 | | | | | |
| Property Damage | 5 | | | | | | | 4 | 5 | | | | | | | ? | | | | | | 5 | | | | | |
| Crop Damage | 0 | | | | | | | 0 | 0 | | | | | | | ? | | | | | | 0 | | | | | |
| HIGH WINDS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deaths | | 0 | | 0 | 0 | | | | | 0 | | | 0 | 0 | | | | | | | | | | 0 | 0 | 0 | 0 |
| Injuries | | 4 | | 0 | 0 | | | | | 0 | | | 0 | 0 | | | | | | | | | | 0 | 0 | 0 | 0 |
| Property Damage | | 4 | | 6 | 6 | | | | | 5 | | | 5 | 3 | | | | | | | | | | 3 | 4 | 1 | 6 |
| Crop Damage | | 0 | | ? | 0 | | | | | 0 | | | 0 | 0 | | | | | | | | | | 0 | 0 | 0 | 0 |
| LIGHTNING | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deaths | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | |
| Injuries | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | |
| Property Damage | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | |
| Crop Damage | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | |
| FLASH FLOODS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deaths | | | 0 | | | | | | | | | | | | 0 | | | | | | | | | | | | |
| Injuries | | | 0 | | | | | | | | | | | | 0 | | | | | | | | | | | | |
| Property Damage | | | 4 | | | | | | | | | | | | 5 | | | | | | | | | | | | |
| Crop Damage | | | 0 | | | | | | | | | | | | 0 | | | | | | | | | | | | |
| FLOODS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deaths | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Injuries | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | |
| Property Damage | | | | | | | | | | | | | | | | 5 | | | | | | | | | | | |
| Crop Damage | | | | | | | | | | | | | | | | ? | | | | | | | | | | | |
| HEAVY SNOWSTORMS AND BLIZZARDS @ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deaths | | | 0 | 3 | 0 | | 0 | | 0 | | | 0 | 0 | 0 | | | | 0 | | | | 0 | | 0 | 0 | 0 | 0 |
| Injuries | | | 0 | 0 | 0 | | 0 | | 0 | | | 0 | 0 | 0 | | | | 0 | | | | 0 | | 0 | 0 | 0 | 0 |
| Property Damage | | | 7 | ? | 4 | | 4 | | 6 | | | ? | 5 | 4 | | | | 5 | | | | 5 | | 4 | 1 | ? | ? |
| Crop Damage | | | 0 | ? | 4 | | 0 | | 0 | | | ? | 0 | 0 | | | | 0 | | | | 0 | | 0 | 0 | 0 | 0 |
| ICE STORMS # | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deaths | 0 | | | | | | | | 0 | | | | | | | | | | | | | | | | | | |
| Injuries | 0 | | | | | | | | 0 | | | | | | | | | | | | | | | | | | |
| Property Damage | 7 | | | | | | | | ? | | | | | | | | | | | | | | | | | | |
| Crop Damage | 5 | | | | | | | | 0 | | | | | | | | | | | | | | | | | | |
| HURRICANES AND TROPICAL STORMS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deaths | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Injuries | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Property Damage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Crop Damage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALL OTHERS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deaths | | 1 | | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Injuries | | 0 | | 7 | | | | | | | | | | | | | | | | | | | | | | | |
| Property Damage | | 0 | | 7 | | | | | | | | | | | | | | | | | | | | | | | |
| Crop Damage | | 0 | | 7 | | | | | | | | | | | | | | | | | | | | | | | |

SEE REFERENCE NOTES FOR STORM DAMAGE CATEGORIES

STORM SUMMARY

JANUARY 1988

| TYPE | NEW JERSEY | NEW MEXICO | NEW YORK | NORTH CAROLINA | NORTH DAKOTA | OHIO | OKLAHOMA | OREGON | PENNSYLVANIA | RHODE ISLAND | SOUTH CAROLINA | SOUTH DAKOTA | TENNESSEE | TEXAS | UTAH | VERMONT | VIRGINIA | WASHINGTON | WEST VIRGINIA | WISCONSIN | WYOMING | ALASKA | HAWAII | PACIFIC | PUERTO RICO | VIRGIN ISLANDS | NATIONAL DEATH & INJURY TOTALS |
|---|------------|------------|----------|----------------|--------------|------|----------|--------|--------------|--------------|----------------|--------------|-----------|-------|------|---------|----------|------------|---------------|-----------|---------|--------|--------|---------|-------------|----------------|--------------------------------|
| TORNADOES | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Number | | | | | | | | | | 0 | | | 4 | | | | | | | | | 4 | | | 0 | 0 | |
| Days | | | | | | | | | | | | | 15 | | | | | | | | | | | | | | |
| Deaths | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | 5 |
| Injuries | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | 93 |
| Property Damage | | | | | | | | | | | | | 60 | | | | | | | | | | | | | | |
| Crop Damage | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | |
| HAIL | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deaths | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Injuries | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Property Damage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Crop Damage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| THUNDERSTORM WINDS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deaths | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | 0 |
| Injuries | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | 5 |
| Property Damage | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Crop Damage | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| HIGH WINDS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deaths | | | 0 | | | | | 0 | | | | 0 | | | | | | | 0 | | | 0 | | | | | 0 |
| Injuries | | | 0 | | | | | 3 | | | | 0 | | | | | | | 0 | | | 0 | | | | | 4? |
| Property Damage | | | 4 | | | | | 6 | | | | 4 | | | | | | | 0 | | | 0 | | | | | |
| Crop Damage | | | 0 | | | | | 0 | | | | 0 | | | | | | | 0 | | | 0 | | | | | |
| LIGHTNING | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deaths | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Injuries | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Property Damage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Crop Damage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FLASH FLOODS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deaths | | | | | | | | | 0 | | | | 0 | | | | | | | | | | | | | | |
| Injuries | | | | | | | | | 0 | | | | 0 | | | | | | | | | | | | | | |
| Property Damage | | | | | | | | | 4 | | | | ? | | | | | | | | | | | | | | |
| Crop Damage | | | | | | | | | 0 | | | | ? | | | | | | | | | | | | | | |
| FLOODS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deaths | | | | | | | | 0 | | | | | 0 | | | | | | | | | | | | | | 1 |
| Injuries | | | | | | | | 0 | | | | | 0 | | | | | | | | | | | | | | 0 |
| Property Damage | | | | | | | | ? | | | | | ? | | | | | | | | | | | | | | |
| Crop Damage | | | | | | | | 0 | | | | | ? | | | | | | | | | | | | | | |
| HEAVY SNOWSTORMS AND BLIZZARDS @ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deaths | 0 | | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | | 0 | | | | 0 | | | | | 5 | |
| Injuries | 0 | | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | | 0 | | | | | 2 | |
| Property Damage | 3 | | 6 | 7 | 4 | ? | 7 | ? | 4 | | 6 | 0 | ? | ? | 2 | | 5 | | | | 0 | | | | | | |
| Crop Damage | 0 | | ? | 0 | 0 | 0 | ? | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | | 0 | | | | | | |
| ICE STORMS # | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deaths | | 0 | | 0 | | | | 0 | | | 0 | | | | 0 | | | | | | | | | | | | |
| Injuries | | 0 | | 0 | | | | 0 | | | 0 | | | | 0 | | | | | | | | | | | | |
| Property Damage | | 3 | | 7 | | | | ? | | | 5 | | | | ? | | | | | | | | | | | | |
| Crop Damage | | 0 | | 0 | | | | 0 | | | 0 | | | | ? | | | | | | | | | | | | |
| HURRICANES AND TROPICAL STORMS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deaths | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Injuries | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Property Damage | | | | | | | | | | | | | | | | | | | | | | | | | | | 7 |
| Crop Damage | | | | | | | | | | | | | | | | | | | | | | | | | | | 6 |
| ALL OTHERS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deaths | | | 1 | | 0 | | 1 | | | | 1 | 1 | | | | | | | | | | | | | | | 7 |
| Injuries | | | 2 | | 0 | | ? | | | | 0 | 0 | | | | | | | | | | | | | | | 9? |
| Property Damage | | | ? | | 4 | | ? | | | | 5 | 0 | | | | | | | | | | | | | | | |
| Crop Damage | | | ? | | 0 | | 0 | | | | 0 | 0 | | | | | | | | | | | | | | | |

SEE REFERENCE NOTES FOR STORM DAMAGE CATEGORIES

STORM DAMAGE CATAGORIES

- 1 Less than \$50
- 2 \$50 to \$500
- 3 \$500 to \$5,000
- 4 \$5,000 to \$50,000
- 5 \$50,000 to \$500,000
- 6 \$500,000 to \$5 Million
- 7 \$5 Million to \$50 Million
- 8 \$50 Million to \$500 Million
- 9 \$500 Million to \$5 Billion

- 0/Blank None reported.
- * Miles instead of yards.
- ** Yards instead of miles.
- @ Includes heavy sleet storm.
- # Freezing drizzle and freezing rain, commonly known as glaze.
- ≠ Report incomplete.
- ≠≠ Report not received.
- o/c Indicates Crop Damage amount is included in the value given for property damage.

When reports are not received or are incomplete, the Storm Summary National Death and Injury totals may also be incomplete.

Definition of Fujita Tornado Scale (F scale)

(F0) Gale tornado (40-72 mph): Light damage
Some damage to chimneys; break branches off trees; push over shallow-rooted trees; damage sign boards.

(F1) Moderate tornado (73-112 mph): Moderate damage
The lower limit (73 mph) is the beginning of hurricane wind speed; peel surface off roofs; mobile homes pushed off foundations or overturned; moving autos pushed off the roads.

(F2) Significant tornado (113-157 mph): Considerable damage
Roofs torn off frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light-object missiles generated.

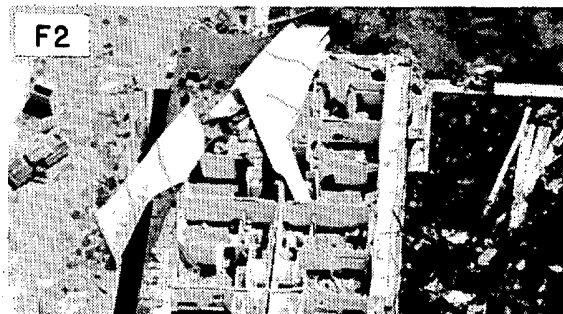
(F3) Severe tornado (158-206 mph): Severe damage
Roofs and some walls torn off well-constructed houses; trains overturned; most trees in forest uprooted; heavy cars lifted off ground and thrown.

(F4) Devastating tornado (207-260 mph): Devastating damage
Well-constructed houses leveled; structure with weak foundation blown off some distance; cars thrown and large missiles generated.

(F5) Incredible tornado (261-318 mph): Incredible damage
Strong frame houses lifted off foundations and carried considerable distance to disintegrate; automobile-sized missiles fly through the air in excess of 100 m; trees debarked; incredible phenomena will occur.

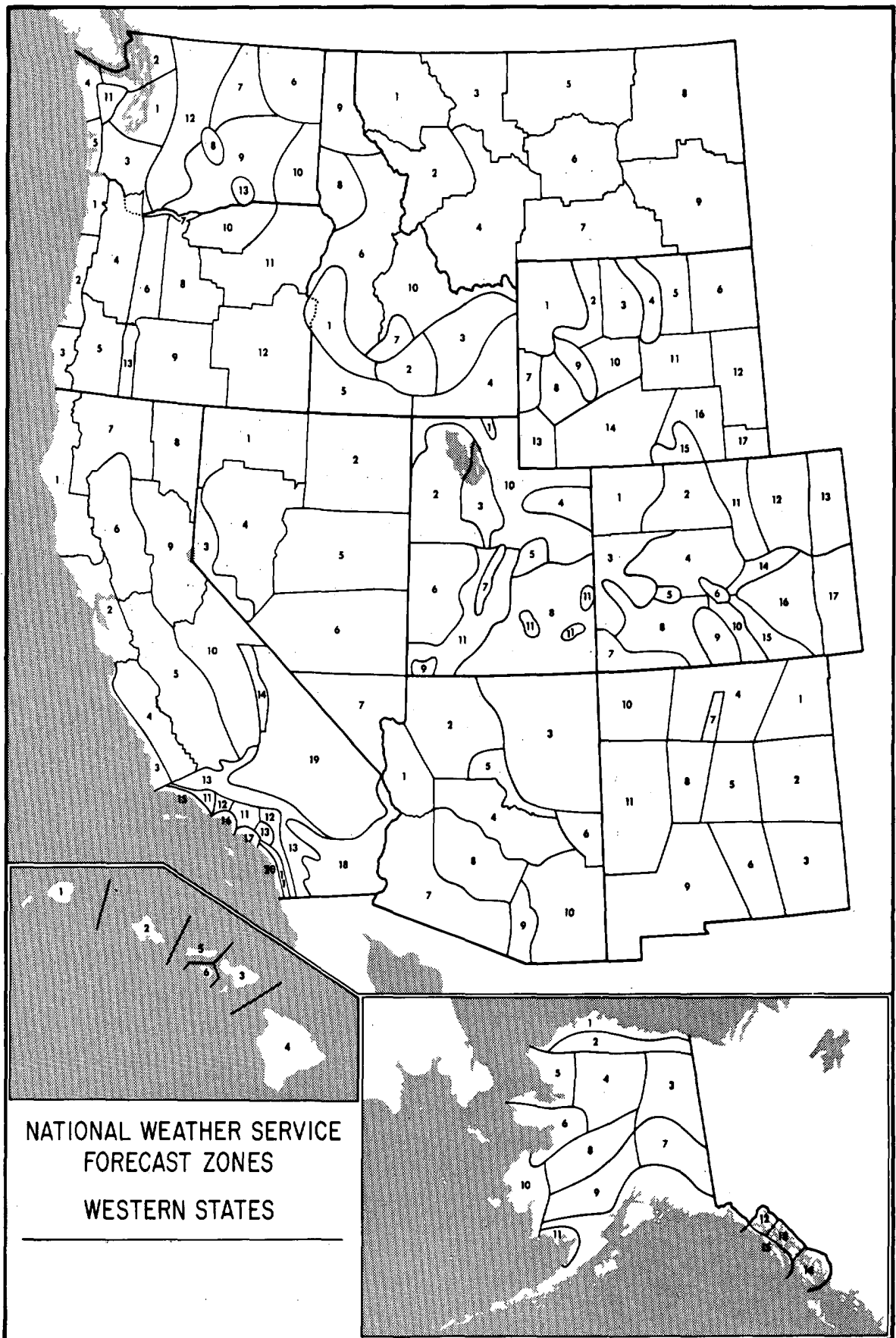
(F6-F12) (319 mph to Mach 1, the speed of sound):
The maximum wind speeds of tornadoes are not expected to reach the F6 wind speeds.

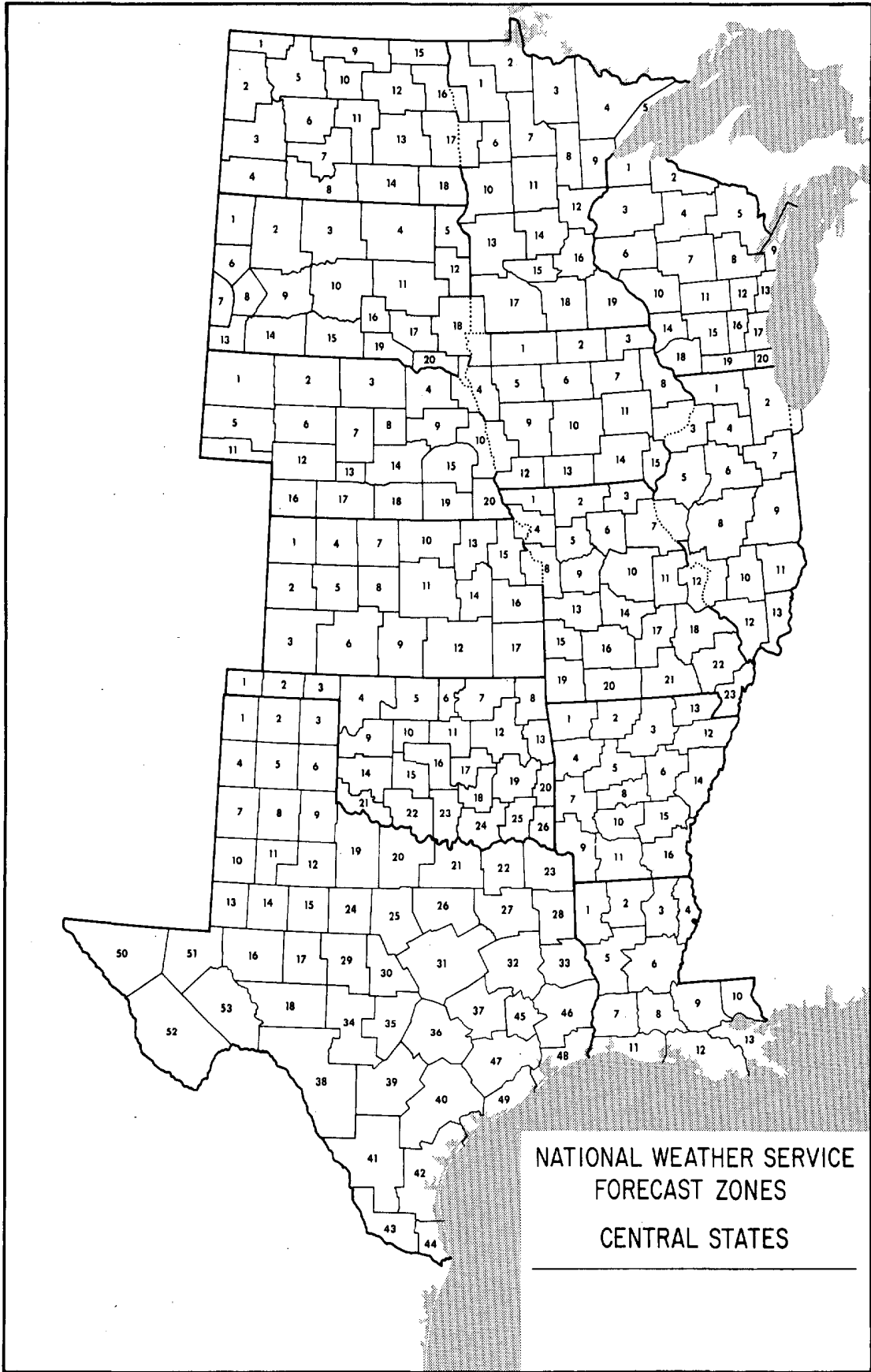
(F0+F1) *Weak Tornado*
(F2+F3) *Strong Tornado*
(F4+F5) *Violent Tornado*



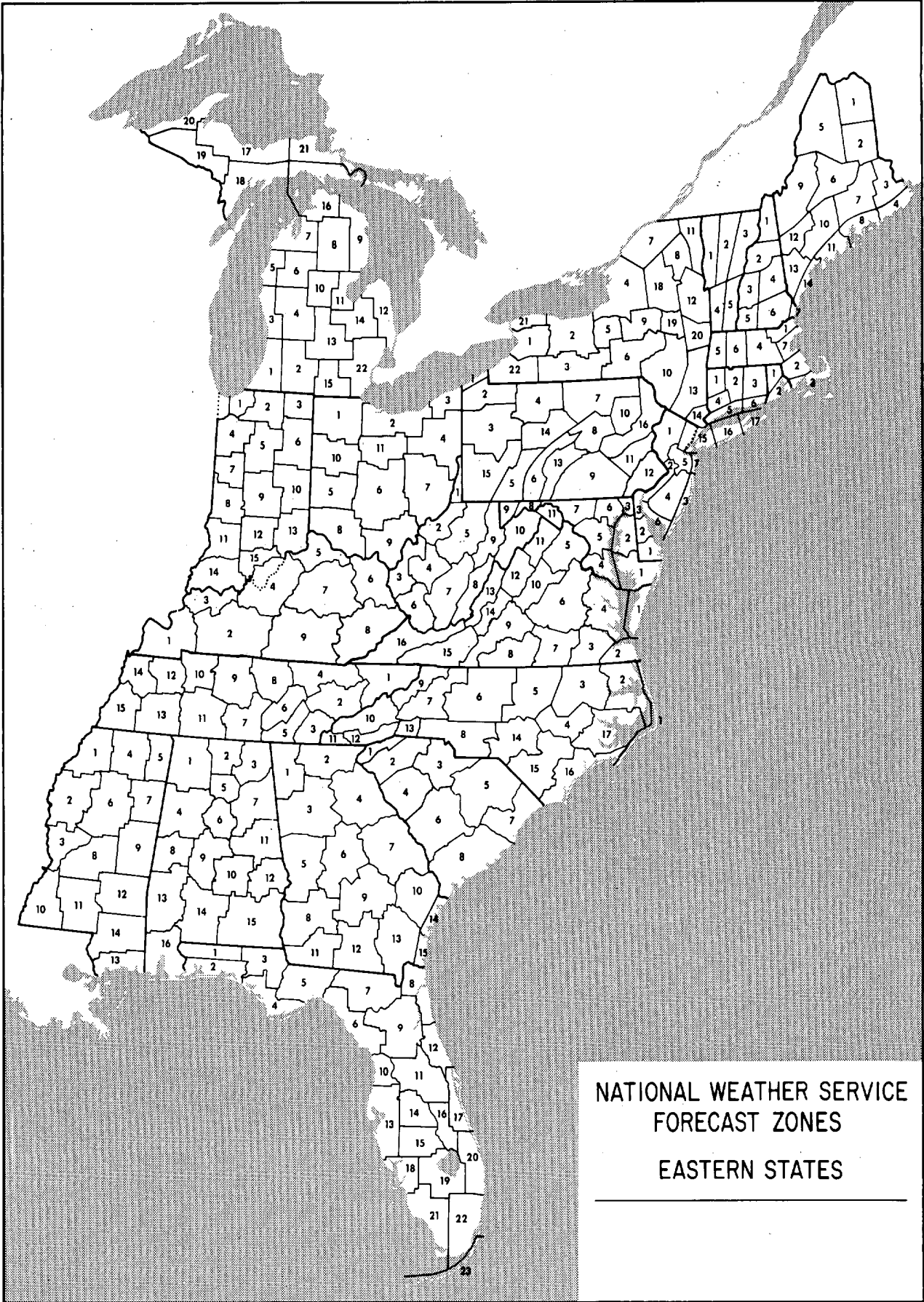
From J. Atmos. Sci., August 1981, p. 1517-1519

USCOMM-NOAA-ASHEVILLE, N.C. 1987-2000

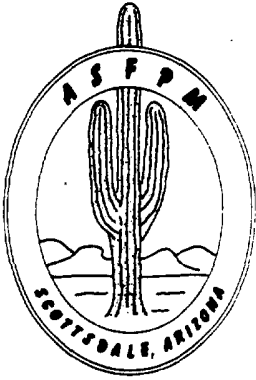




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FORECAST ZONES
CENTRAL STATES



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CALL FOR PAPERS!



Association of State Floodplain Managers
13th Annual Conference

Scottsdale, Arizona
May 22-25, 1989

PARTNERSHIPS: Effective Flood Hazard Management

The Association of State Floodplain Managers (ASFPM) is a national organization. Its goal is the reduction of flood damages and hazards through sound floodplain management. Its members include representatives of local, state, and federal governments as well as those of the private and non-profit communities. The Association sponsors an annual conference on the state-of-the-art in flood damage and hazard reduction. Conference topics always span a broad spectrum of issues of interest to those involved in floodplain management.

Most effective efforts involve **Partnerships**. The formulation and functioning of these partnerships are important to understand in order to build good relationships for better projects with the best results. This year's conference theme focuses on the effectiveness of networking and partnerships to create and implement solutions, programs, and projects to reduce flooding hazards and damages.

The Association specifically encourages papers describing multi-objective **Partnerships** and approaches that have worked to reduce potential flood damages. The ASFPM also welcomes proposals for "short course" presentations at the conference. Papers are invited which address all aspects of floodplain management issues and problems including the following:

- Effectively integrating watershed-wide floodplain management concerns with local planning and zoning.
- Status of "temporary taking" and other legal issues: what's happening in the courts?
- Case histories of communities under sanction for non-compliance with the NFIP.
- A decade of Section 406 Hazard Mitigation Planning: have we made progress?
- Reducing flood loss potential: what works?
- Do federal programs adequately address state and local needs?
- Multi-objective projects: what makes them successful?
- Improving flood prevention and awareness programs aimed at local officials and private property owners.
- How can we improve technical assistance to small communities?
- What's new and improved in the field of floodproofing?

SUBMISSION OF ABSTRACTS

Three copies of abstracts for papers must be submitted by October 31, 1988 to Rebecca Q. Hughes, Conference Program Chair.

Abstracts should not exceed 200 words and must include the paper's title, and all authors' names, affiliations, addresses and phone numbers. Authors will receive timely notification of the status of papers. A copy of the complete paper must be submitted by June 15, 1989 for inclusion in the 1989 published proceedings. All attendees, including authors, will be expected to pay the registration fee for the conference.

ABOUT THE CONFERENCE

The technical conference will be held Tuesday, Wednesday, and Thursday and will include a field trip in the Phoenix-Scottsdale area. The conference will feature one track of concurrent sessions dealing specifically with the floodplain management problems of the Arid West. The ASFPM will conduct its committee and general membership meetings on Monday. All members and prospective members are invited to participate. A technical field trip including dinner is scheduled one evening. Optional field trips and spouse activities will be available.

REGISTRATION RATES

Registration prior to April 15, 1989 will be \$150 for members, \$165 for non-members, and \$65 for students and local government officials from the State of Arizona.

EXHIBIT SPACE

Exhibit space will be made available for a fee to individuals and organizations who wish to display a product or service to conference attendees. Information on exhibit space can be acquired from Susan Josheff, Exhibits Coordinator, at the address below.

ABOUT SCOTTSDALE

Scottsdale is noted throughout the country for its creative approach to city planning. Running the length of the City is the Indian Bend Wash Greenbelt, a 7.5 mile long flood control project that uses a system of parks, lakes, and golf courses as an alternative to a conventional concrete channel. This greenbelt offers endless recreational opportunities including fishing, sailing and other sports.

Scottsdale's quality lifestyle includes well-planned living, working and shopping areas, pleasant neighborhoods and residential areas protected from traffic and noise. The City's emphasis on mountain conservation and protection of its rich desert areas is reknown nationally. Scottsdale is also recognized for its architectural and landscape design excellence and rich cultural, business and recreational environments. The City is proud of its vital downtown areas. The ambiance of Scottsdale reflects a unique blend of traditional Western and modern living.

The conference will be held at the Wyndham Paradise Valley Resort in Scottsdale, Arizona. Conference room rates are \$53 single, and \$63 double. Paradise Valley Resort is an exceptional facility which showcases Scottsdale's best features.

CONFERENCE HOST: Arizona Department of Water Resources

CONFERENCE DIRECTOR

Jim Morris
Arizona Department
of Water Resources
15 S. 15th Avenue
Phoenix, Arizona 85007
(602) 255-1566

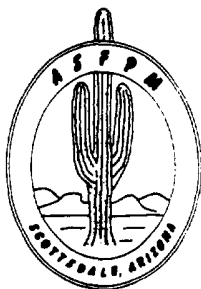
PROGRAM CHAIR

Rebecca Q. Hughes
Maryland DNR
Water Resources Admin.
Tawes State Office Bldg. D-3
Annapolis, Maryland 21401
(301) 974-3825

EXHIBITS COORDINATOR

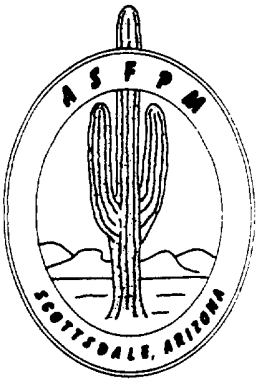
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P.O. Box 7921 (WZ/6)
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Rebecca Q. Hughes
1989 ASFPM Conference Program Chair
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Tawes State Office Building, D-3
Annapolis, MD 21401



PARTNERSHIPS

**Effective Flood
Hazard Management**



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