

STORM DATA



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Kenneth D. Hadler

DIRECTOR
NATIONAL CLIMATIC DATA CENTER

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C O N T E N T S

Cover: Minneapolis? Buffalo? It is the Washington, D.C. area on the day following the second in a series of snowstorms that brought the nation's capital as well as much of the Eastern U.S. one of its snowiest winters in years. The January 25th storm came on the heels of a previous storm on January 22nd, together leaving more than two feet of the white stuff over much of the metro area. Pictured is a parking lot in McLean, Virginia, a western suburb of Washington, on the afternoon of January 26th.
---Photo by Brian E. Doty, University of Maryland.

	<u>Page</u>
Outstanding Storms of the Month.....	3
Storm Data and Unusual Weather Phenomena.....	22
Storm Summary.....	39
Corrections.....	41
Reference Notes.....	42
"F" Scale Definitions.....	42

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 these editions; Eastern States: JAN, APR, JUL, OCT.
Central States: FEB, MAY, AUG, NOV.
Western States: MAR, JUN, SEP, DEC.

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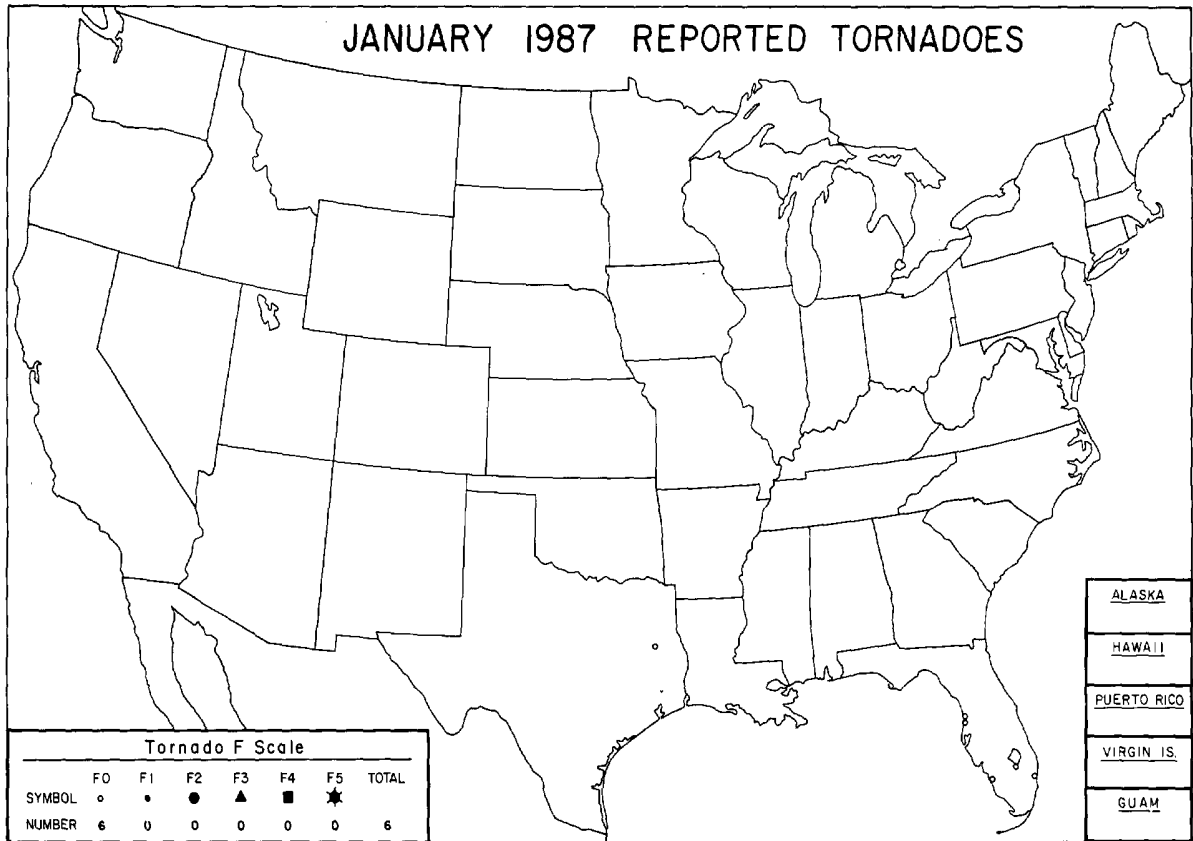
Publication Staff

J. D. Ziemianski	S. C. Lackey
Supervisory Meteorological Technician	Editorial Clerk

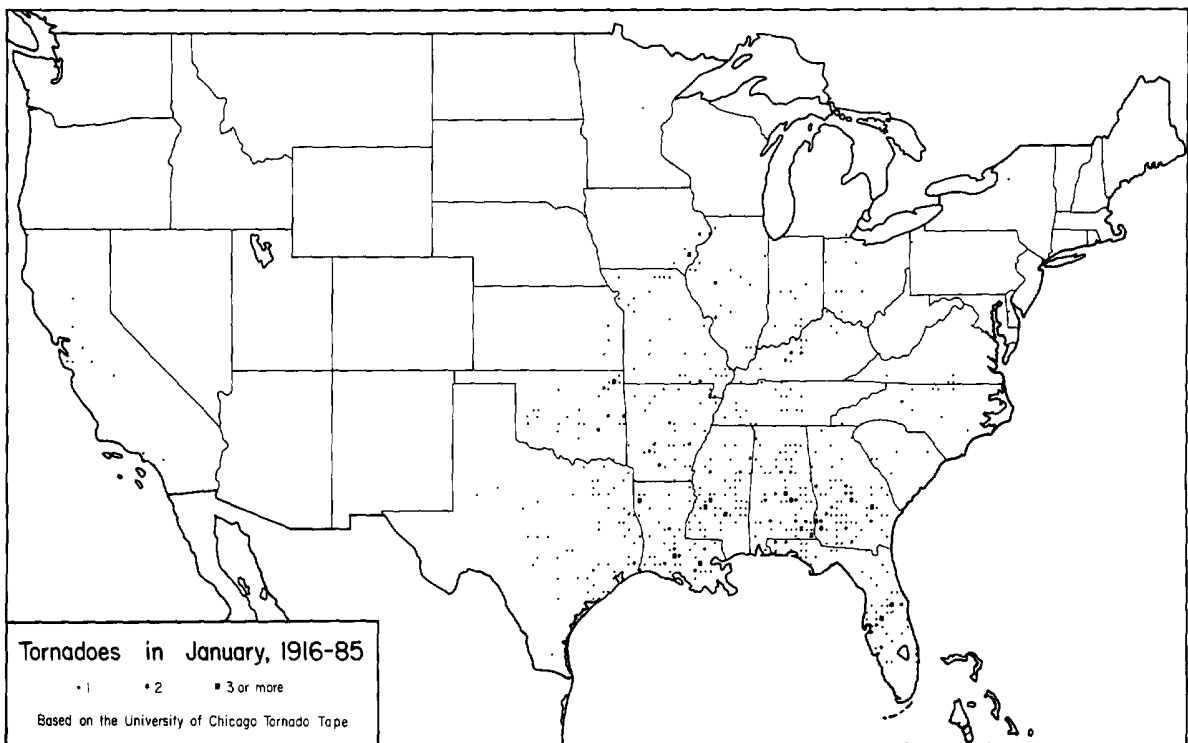
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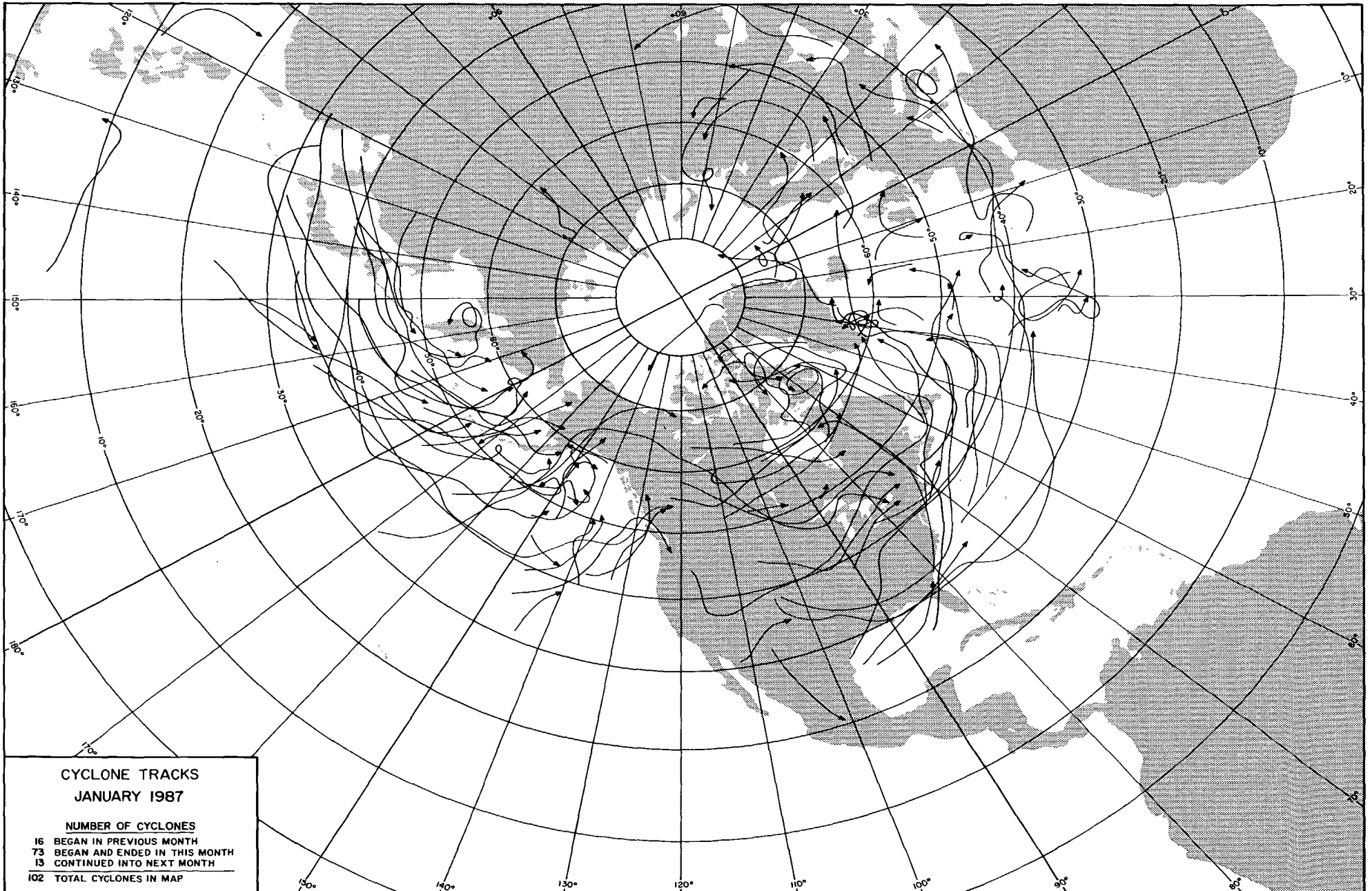
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OUTSTANDING STORMS OF THE MONTH



<p>● COMPLETE REPORT RECEIVED</p> <p>◐ PRELIMINARY REPORT RECEIVED</p> <p>○ REPORT NOT RECEIVED</p> <p>(N) northern (W) western</p> <p>(S) southern (C) central</p> <p>(E) eastern (O) coastal</p> <p>(SE) southeastern</p>	<table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>● 1AL</td> <td>● 7DE</td> <td>● 14KS</td> <td>● 21MN</td> <td>● 28NJ</td> <td>● 33OH</td> <td>● 39SD</td> <td>● 44VA</td> <td>● 49AK(SE)</td> </tr> <tr> <td>● 2AZ</td> <td>● 8FL</td> <td>● 15KY</td> <td>● 22MS</td> <td>● 29NM</td> <td>● 34OK</td> <td>● 40TN</td> <td>● 45WA</td> <td>● 50HI</td> </tr> <tr> <td>● 3AR</td> <td>● 9GA</td> <td>● 16LA</td> <td>● 23MO</td> <td>● 30NY(O)</td> <td>● 35OR</td> <td>● 41TX(N)</td> <td>● 46WV</td> <td>● 51PR</td> </tr> <tr> <td>● 4CA(N)</td> <td>● 10ID</td> <td>● 17ME</td> <td>● 24MT</td> <td>● 30NY(C)</td> <td>● 36PA(E)</td> <td>● 41TX(S)</td> <td>● 47WI</td> <td>● 52VI</td> </tr> <tr> <td>● 4CA(S)</td> <td>● 11IL</td> <td>● 18MD</td> <td>● 25NE</td> <td>● 30NY(W)</td> <td>● 36PA(W)</td> <td>● 41TX(W)</td> <td>● 48WY</td> <td>● 53PC</td> </tr> <tr> <td>● 5CO</td> <td>● 12IN</td> <td>● 19MA</td> <td>● 26NV</td> <td>● 31NC</td> <td>● 37RI</td> <td>● 42UT</td> <td>○ 49AK(N)</td> <td></td> </tr> <tr> <td>● 6CT</td> <td>● 13IA</td> <td>● 20MI</td> <td>● 27NH</td> <td>● 32ND</td> <td>● 38SC</td> <td>● 43VT</td> <td>○ 49AK(S)</td> <td></td> </tr> </tbody> </table>	● 1AL	● 7DE	● 14KS	● 21MN	● 28NJ	● 33OH	● 39SD	● 44VA	● 49AK(SE)	● 2AZ	● 8FL	● 15KY	● 22MS	● 29NM	● 34OK	● 40TN	● 45WA	● 50HI	● 3AR	● 9GA	● 16LA	● 23MO	● 30NY(O)	● 35OR	● 41TX(N)	● 46WV	● 51PR	● 4CA(N)	● 10ID	● 17ME	● 24MT	● 30NY(C)	● 36PA(E)	● 41TX(S)	● 47WI	● 52VI	● 4CA(S)	● 11IL	● 18MD	● 25NE	● 30NY(W)	● 36PA(W)	● 41TX(W)	● 48WY	● 53PC	● 5CO	● 12IN	● 19MA	● 26NV	● 31NC	● 37RI	● 42UT	○ 49AK(N)		● 6CT	● 13IA	● 20MI	● 27NH	● 32ND	● 38SC	● 43VT	○ 49AK(S)	
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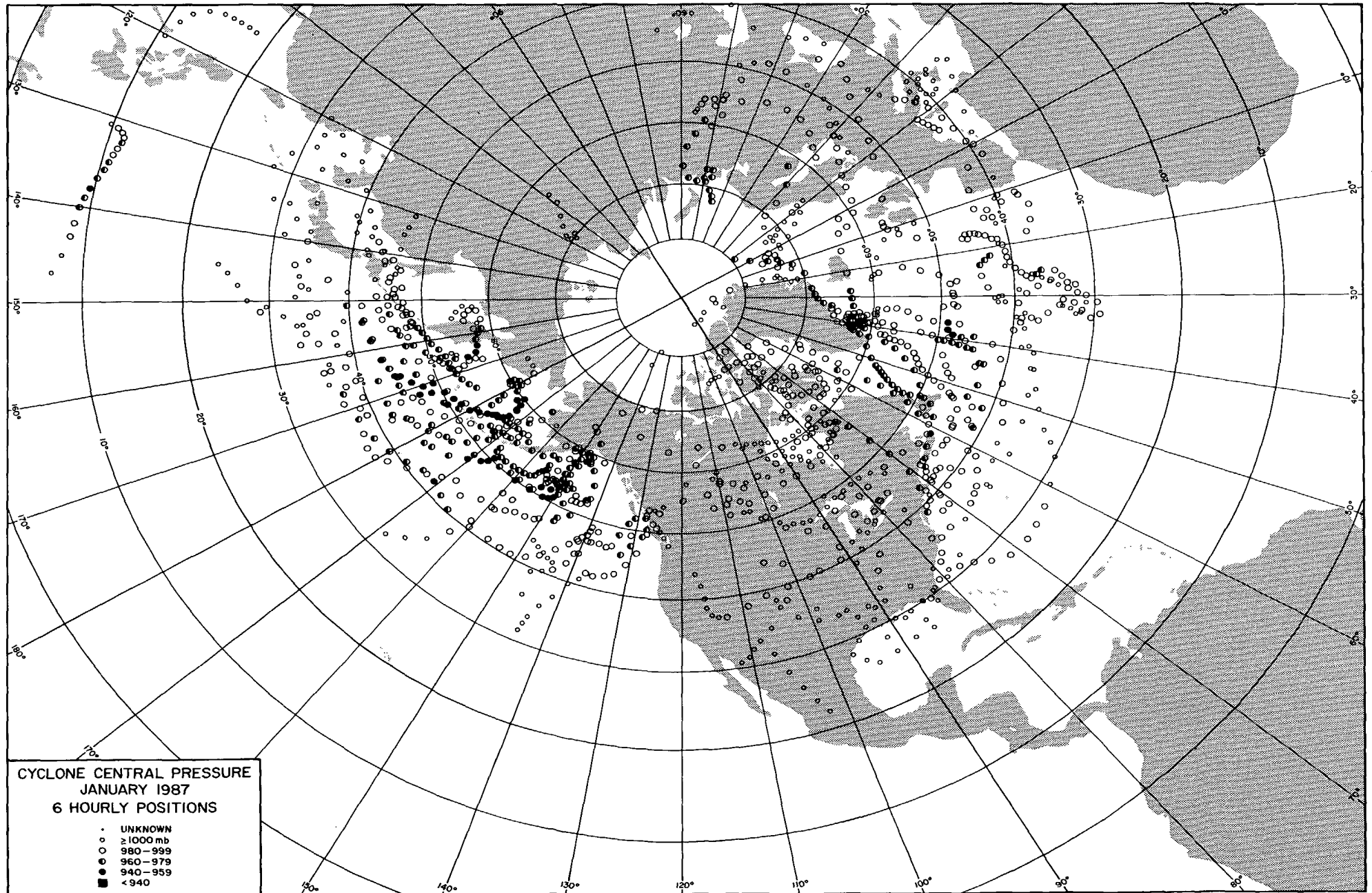




**CYCLONE TRACKS
JANUARY 1987**

NUMBER OF CYCLONES

- 16 BEGAN IN PREVIOUS MONTH
 - 73 BEGAN AND ENDED IN THIS MONTH
 - 13 CONTINUED INTO NEXT MONTH
-
- 102 TOTAL CYCLONES IN MAP



**CYCLONE CENTRAL PRESSURE
JANUARY 1987
6 HOURLY POSITIONS**

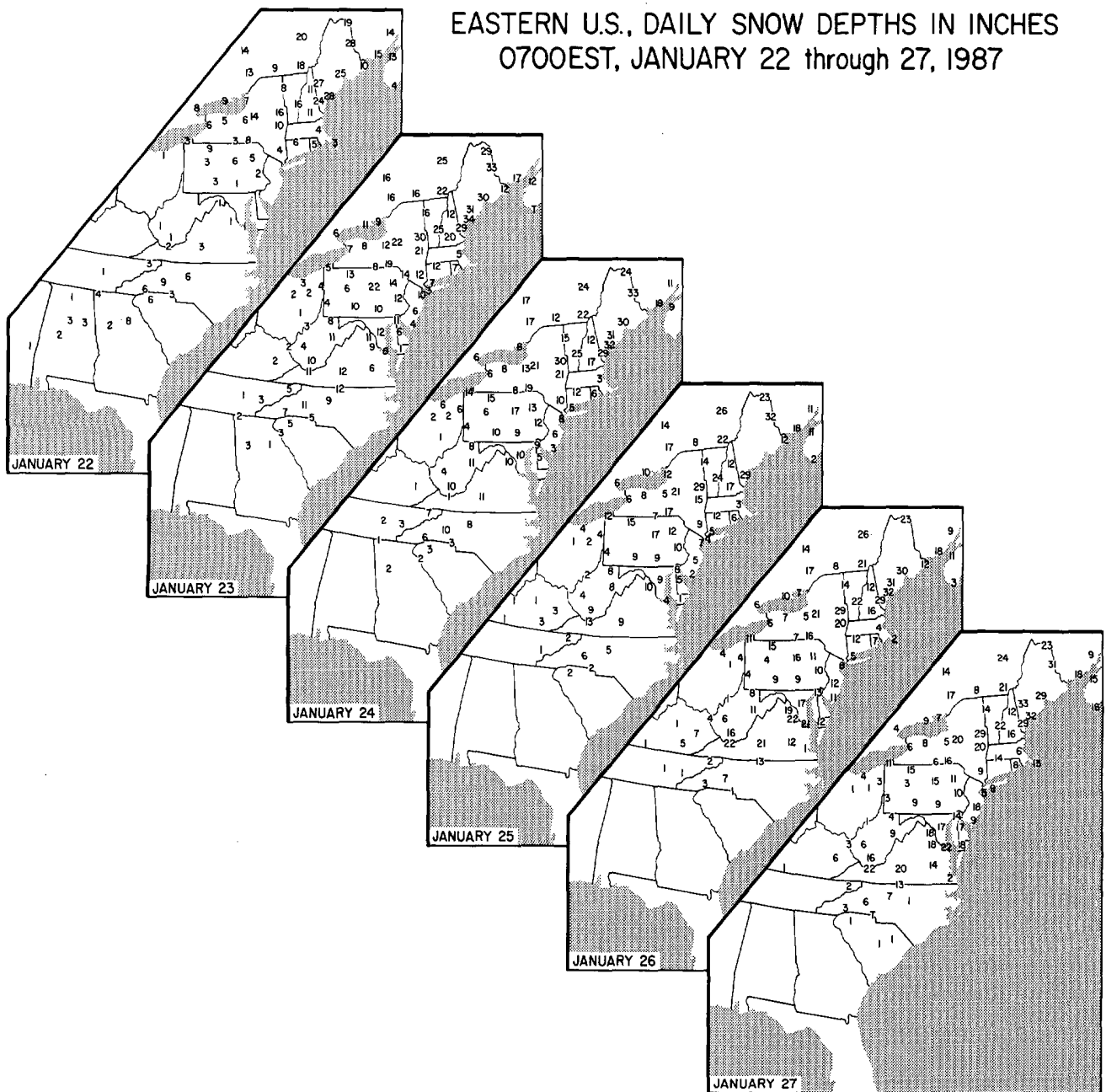
- UNKNOWN
- ≥ 1000 mb
- ◐ 980-999
- ◑ 960-979
- ◒ 940-959
- < 940

Missing data: Eurasian continent area only, 12GMT, Jan. 3 through 12GMT, Jan. 27

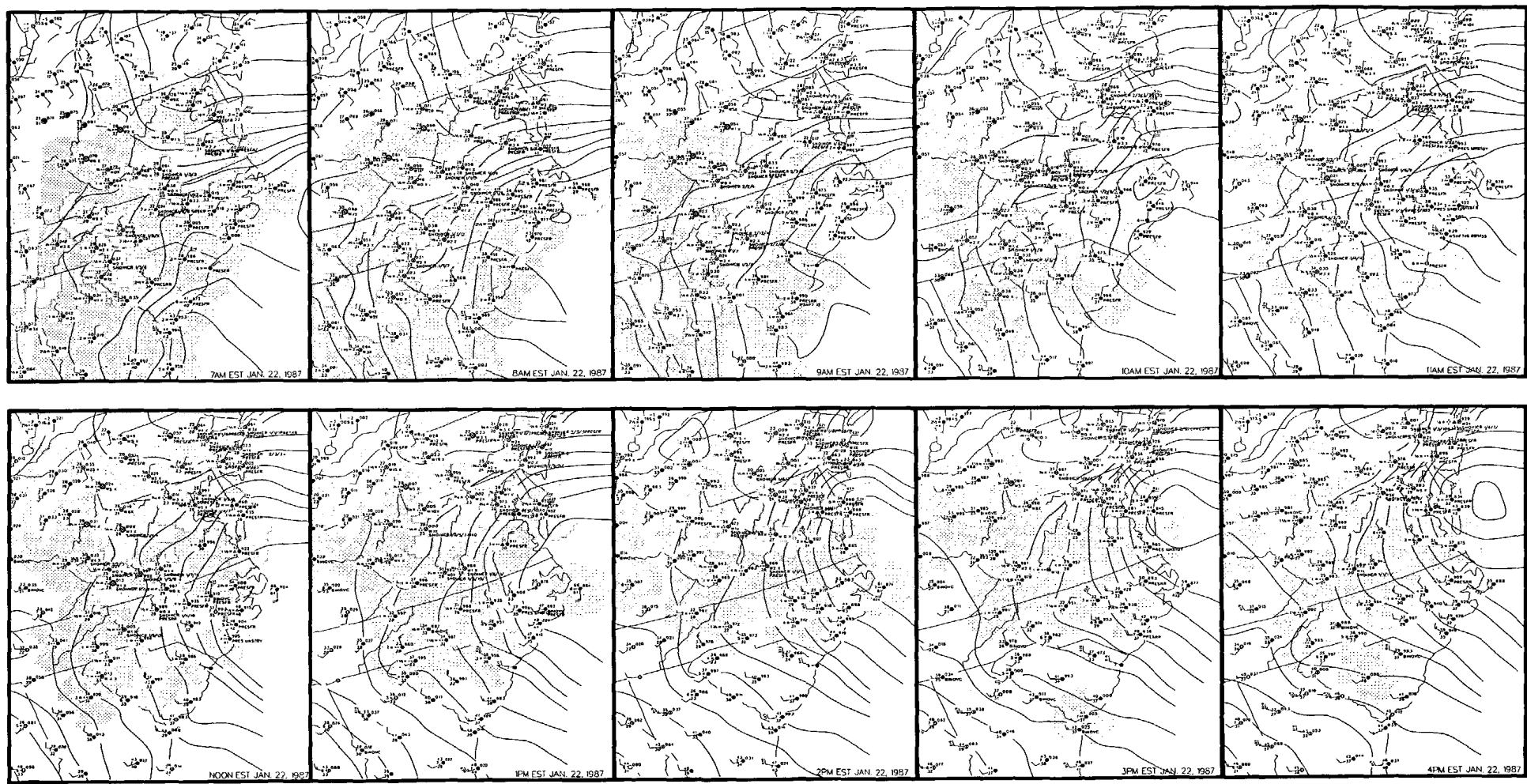
Mapped at the University of Chicago from NMC, 6-hourly surface maps

1. SNOWSTORMS in the EASTERN U.S. on January 22 and 25-26, 1987

Two consecutive coastal storms within a 5-day period in late January dumped heavy snow over the East-Central U.S. The storms created massive transportation delays, especially in the Washington, D.C. area. The first storm, on January 22nd, left a trail of snow across the South from central Mississippi to northern Georgia, and northeastward from there along and just east of the Appalachian Ridge to New England. Although snowfall amounts peaked at only about 15 inches, the heaviest snow fell in heavily populated regions of Virginia, Maryland and Delaware. Washington was practically paralyzed by traffic tie-ups as hundreds of thousands of government employees struggled to get to work during the storm, only to be sent home through the same storm shortly after arriving, thereby compounding the already-difficult travel situation. Airports, schools and many businesses were also closed. A second storm doused the area with snowfall in the 1-foot range on January 25th and 26th, leaving its heaviest amounts in a band just to the south of that of the first storm. These storms along with two in February would make this one of the snowiest winters for the area in years.

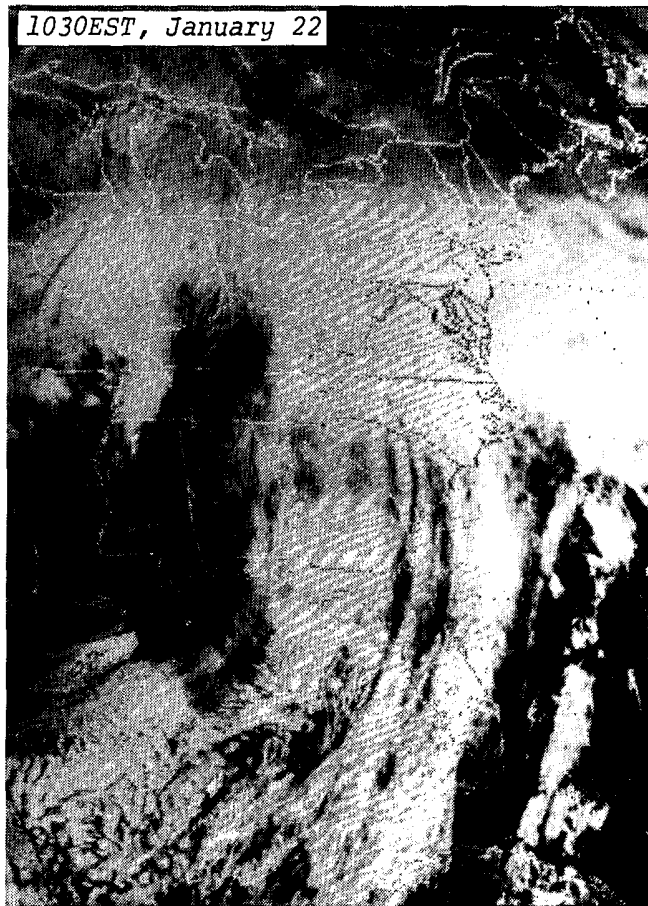
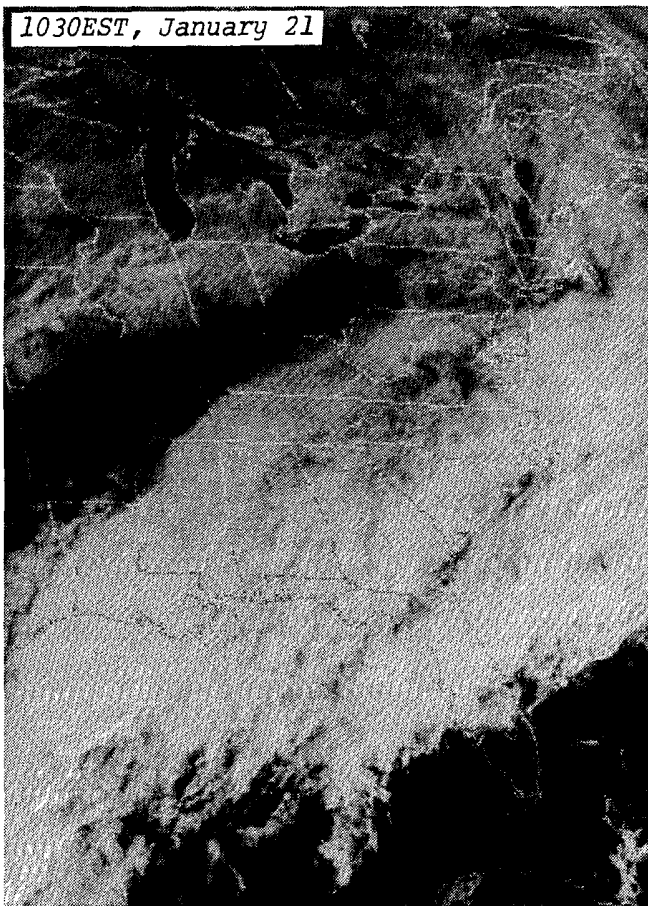


Daily snowdepths in inches for the Eastern U.S. during a 6-day period in late January when two consecutive coastal storms dumped heavy snows across the region. ---Data from NMC.



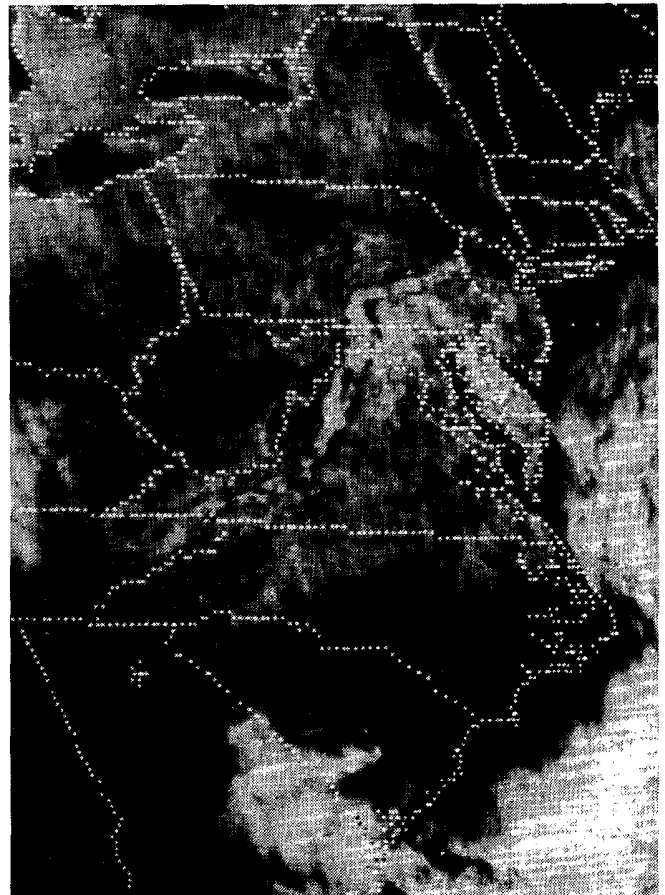
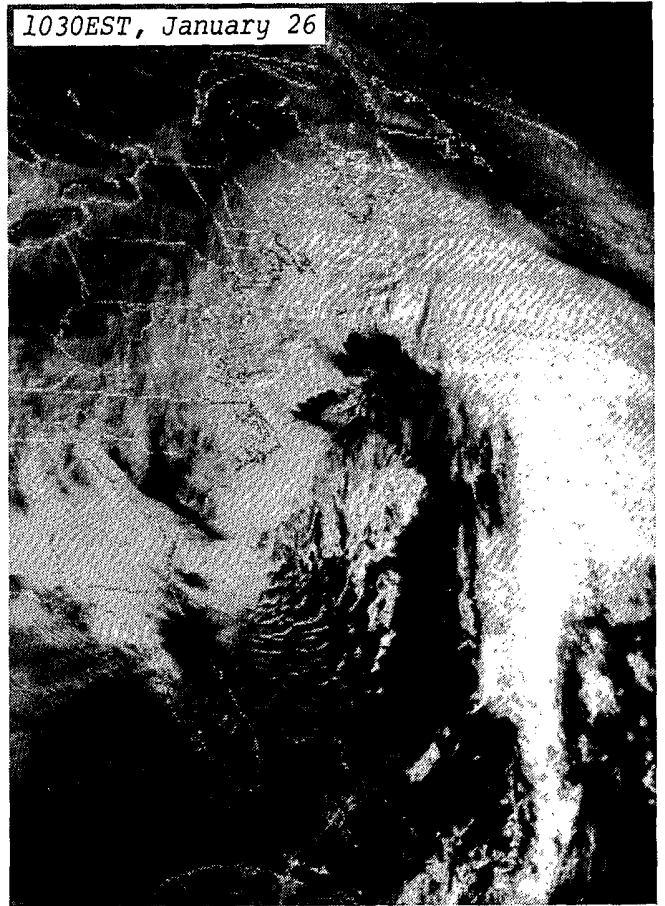
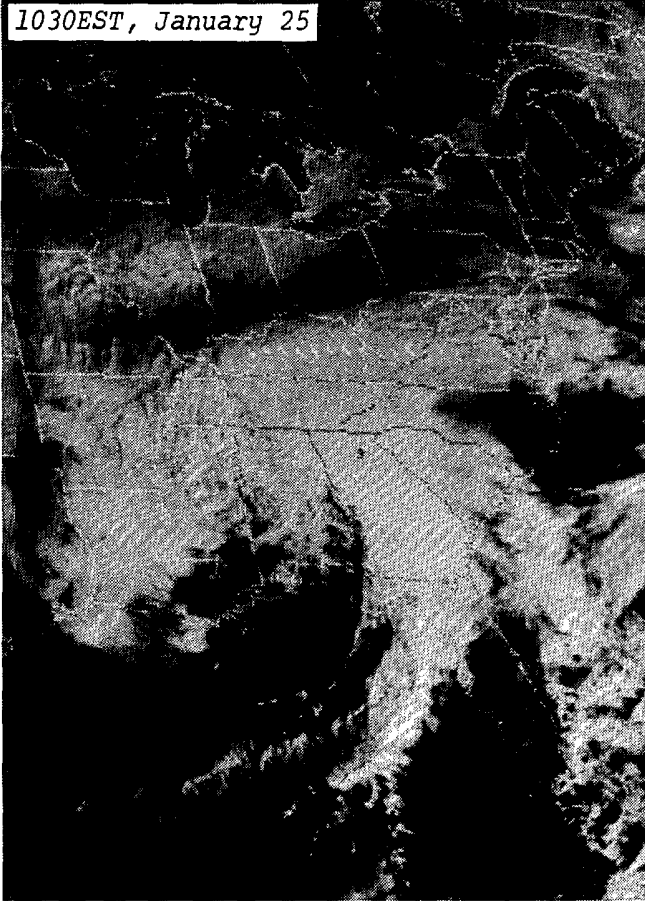
Hourly surface conditions from 0700EST to 1600EST on January 22, 1987 as the storm's low pressure center was organizing and deepening along and offshore of the coasts of the Carolinas and Virginia. Washington, D.C. was receiving moderate snowfall throughout the 9-hour period, starting just after the 0700EST observation. Light and dark gray shading depict areas of light and moderate precipitation, respectively. ---Computerized data plot and analysis by Brian E. Doty, University of Maryland.

SNOWSTORMS in the EASTERN U.S. ---- continued



Daily, GOES 6 satellite, visible images of the first storm that dumped heavy snow over the Eastern U.S. on January 22nd. A snowband left behind by the storm is visible from central Mississippi through the western Carolinas. ---Photos from NESDIS.

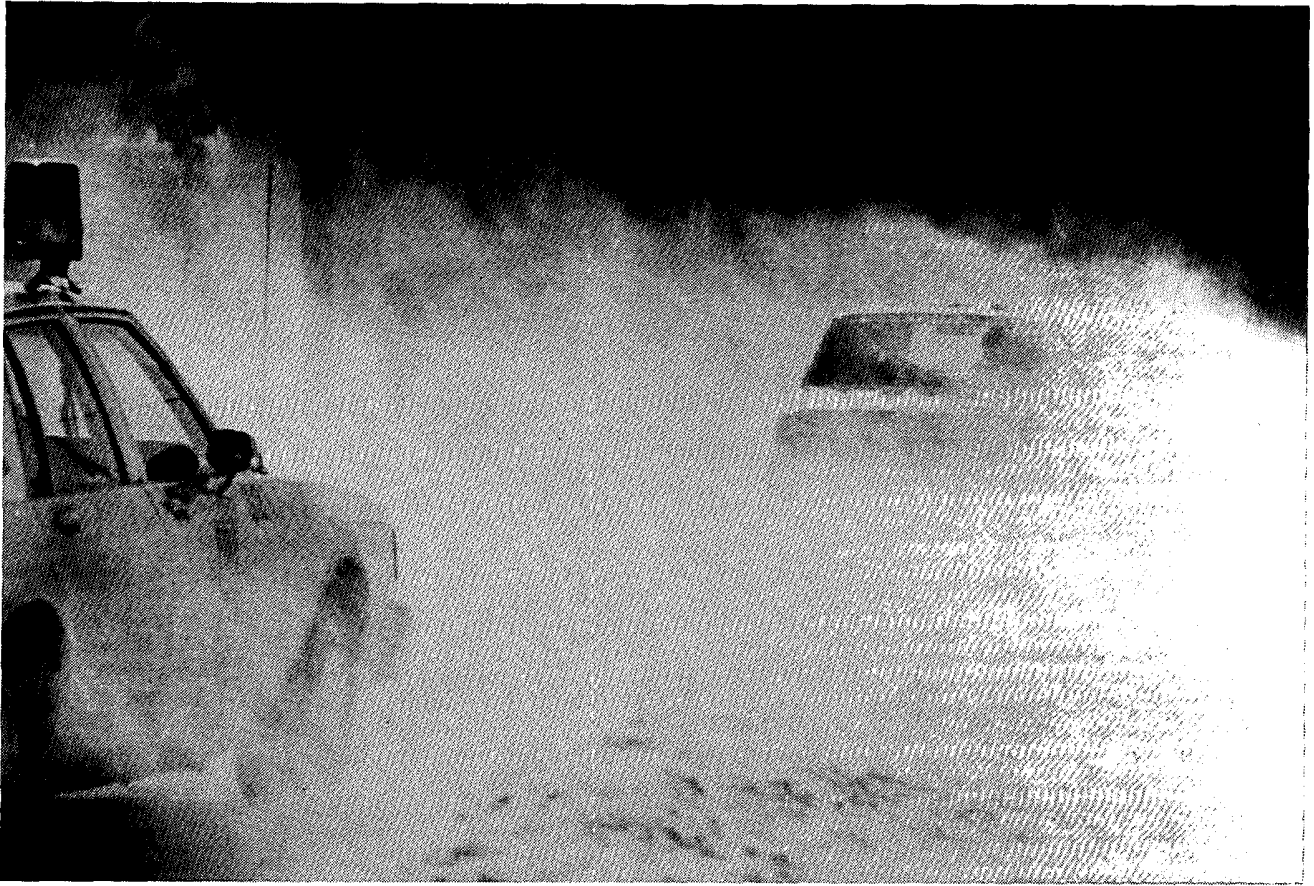
SNOWSTORMS in the EASTERN U.S. ---- continued



A continuation of the photo sequence from the previous page shows the spiralling comma cloud of the second snowstorm. The lower right photo, enlarged from the lower left photo, shows the accumulated snowfall on the ground. ---Photos from NESDIS.

SNOWSTORMS in the EASTERN U.S. ---- continued

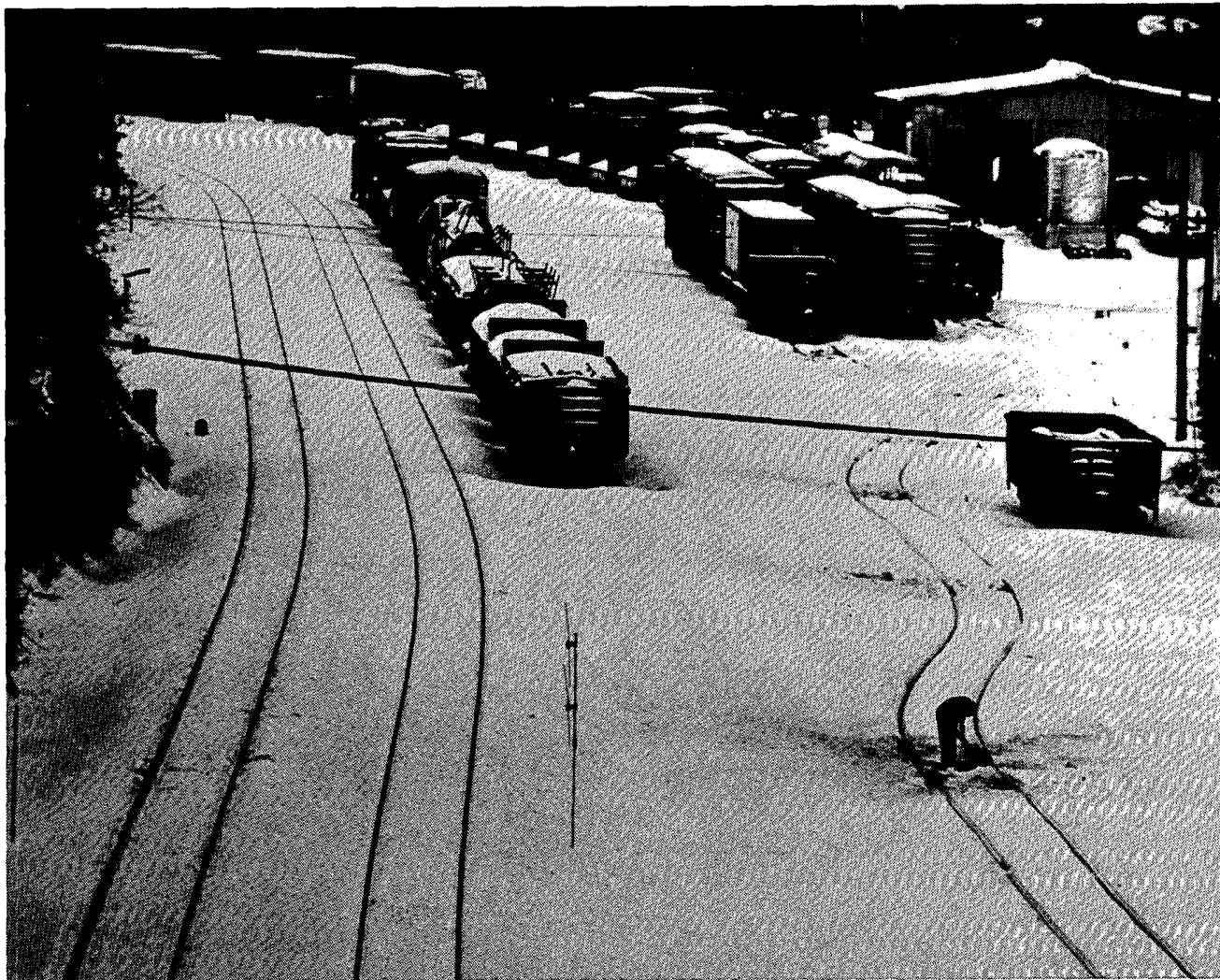
Photos on this and the next page were all taken in the Lynchburg, Virginia area after the second storm. Each storm left about a foot of snow accumulation across the central Virginia area, giving it a two-storm total near 2 feet in depth.



Strong winds following the second storm lift the snow to heights well over cartops along Lynchburg's Park Avenue, reducing visibility and making for treacherous driving.



A Lynchburg resident begins to extricate his vehicle from the storm's snowy aftermath, but only after the winds had lessened and the snow's motion had become saltatory.



ABOVE: A lone worker clears a snow- and ice-clogged switch in a Norfolk Southern railyard in Lynchburg. The storms had minimal effect on mainline rail operations, but sidings and yards required special attention before normal service could be resumed.

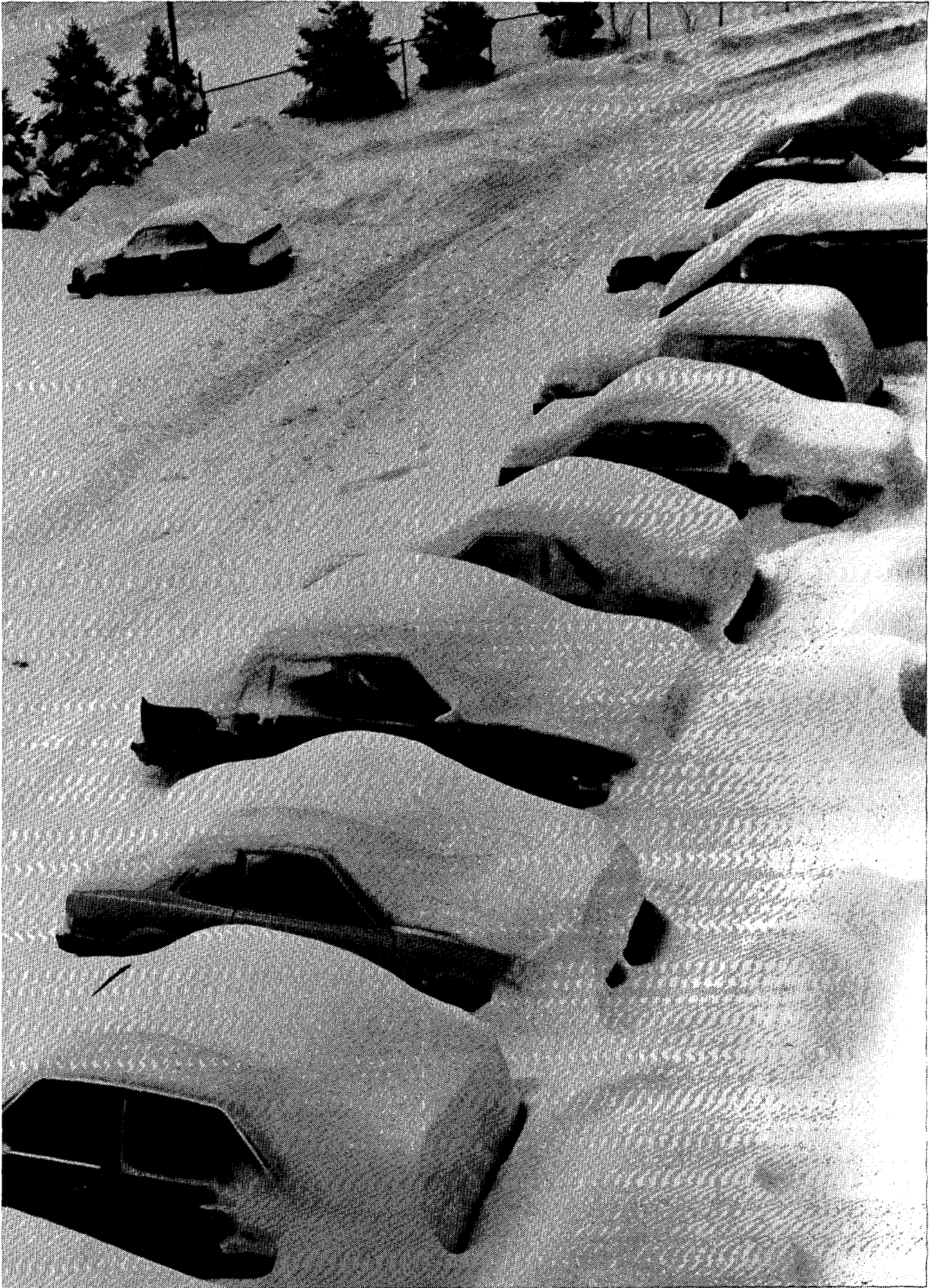


ABOVE: A city plow clears the thruway portion of U.S. 29 in Lynchburg, although drivers still had slick conditions to contend with. LEFT: City plows work in tandem to clear a side street.

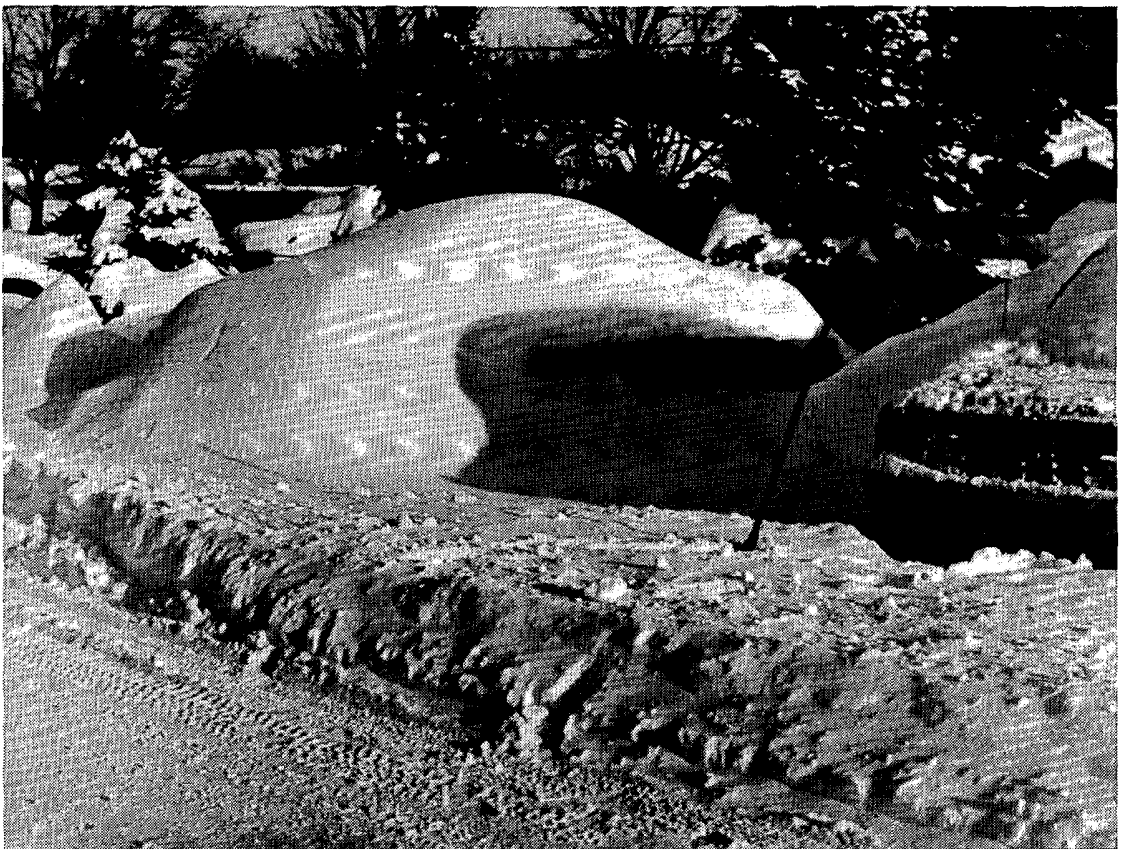


---Photos on pages 10 and 11 by Aubrey Wiley, The Lynchburg News and Daily Advance.

SNOWSTORMS in the EASTERN U.S. ---- continued



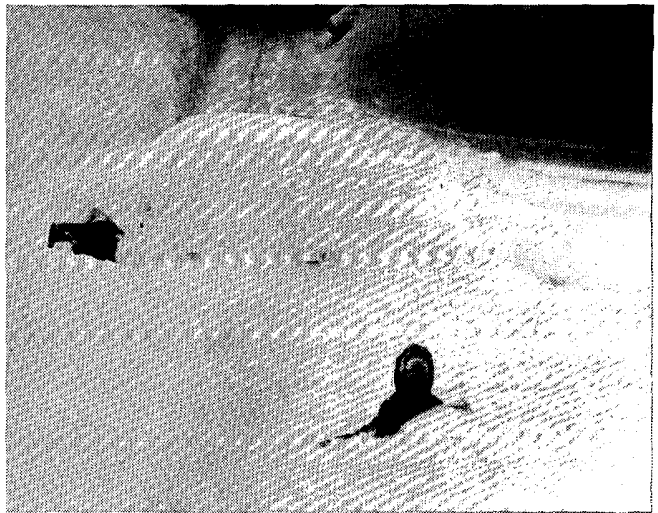
A balcony view of an apartment building parking area in McLean, Virginia, a Washington D.C. suburb, on the morning of January 26th.



Additional views of the parking area shown on the preceding page.

---Photos on pages 12 and 13 by Brian E. Doty, University of Maryland.

SNOWSTORMS in the EASTERN U.S. ---- continued



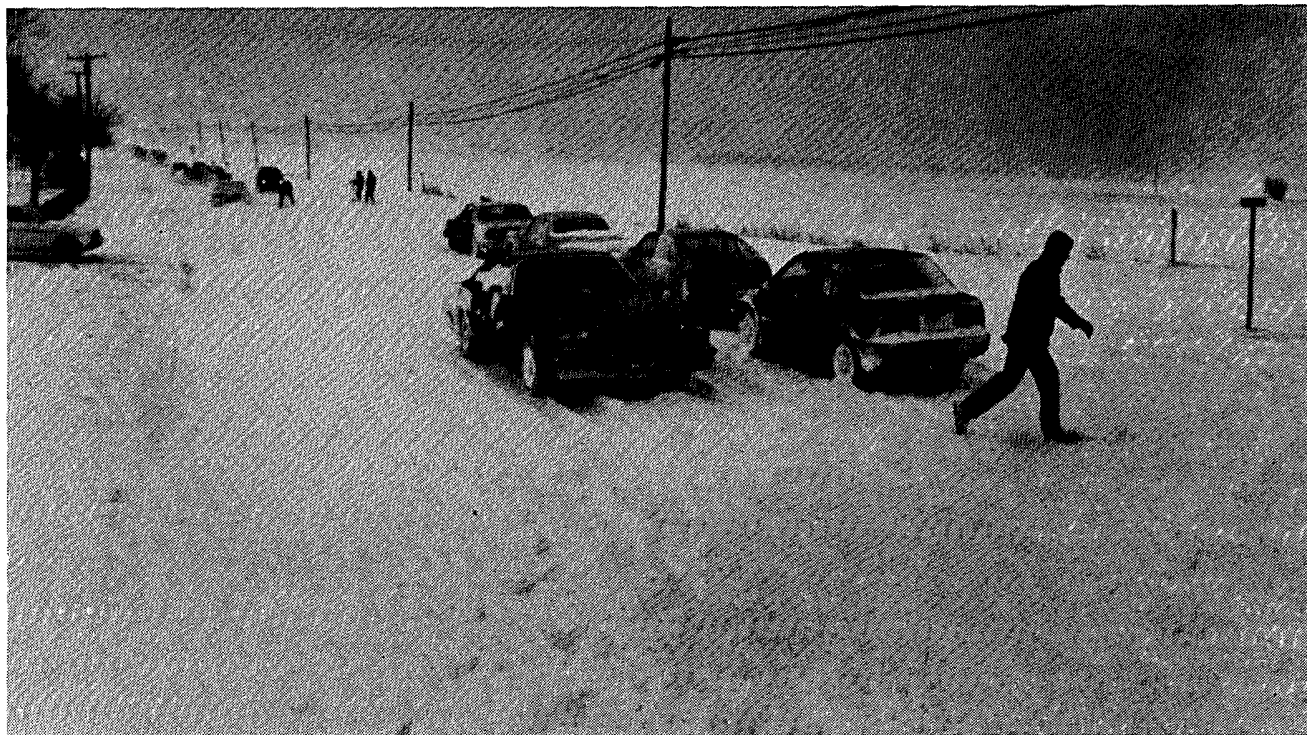
Snow-blanketed autos in Bethesda, Maryland, also near Washington, on the morning of the 26th. ---Both photos by Robert F. Abbey, Jr., Office of Naval Research, Washington, D.C.



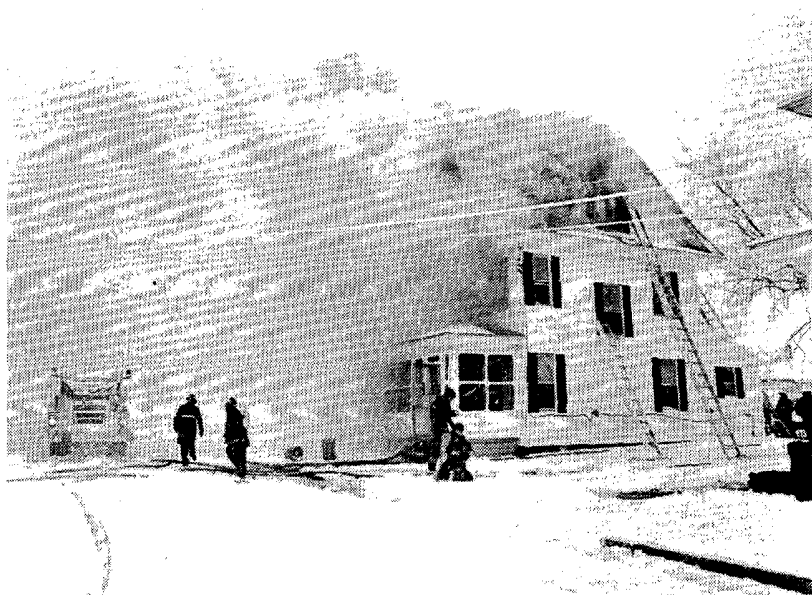
In three views above are shown abandoned vehicles that lined Washington's Beltway on the morning of January 23rd. The obstacles hampered cleanup efforts on the previous day, and their subsequent removal only served to further exacerbate the highway's usual traffic-flow problems. ---All three photos by Brian E. Doty, University of Maryland.

SNOWSTORMS in the EASTERN U.S. ---- continued

Photos on this and the following page were taken in the Salisbury, Maryland area on the Delmarva Peninsula. The area received a combination of rain, freezing rain and snow from the first storm, creating icing problems, and mostly snow in even heavier amounts from the second storm. The region, where snowfalls of this proportion are far less common than in areas to the west, received a two-storm snowcover of generally 18 inches.



A rural road west of Salisbury, with a layer of ice under the obvious snowcover left by the first storm, experiences a city-like traffic jam as many autos lost traction and/or became stuck in drifts.



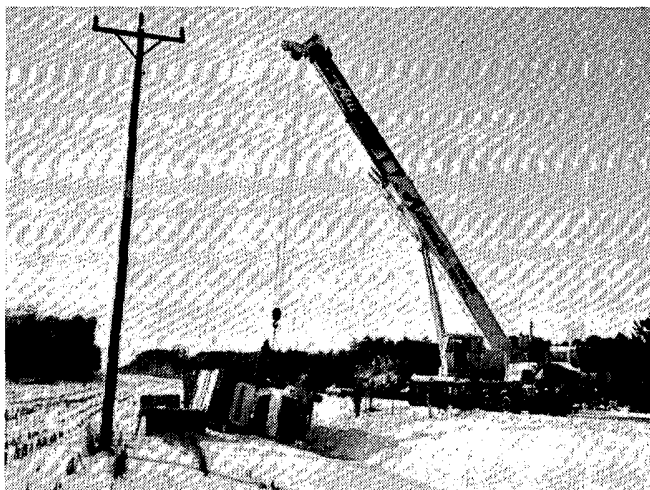
In Delmar, Maryland, a house fire broke out during the first storm when the heater of the above home was overworked to the point that the chimney caught fire. The storm delayed the arrival of firefighters and hampered their efforts once there. At right a firefighter with tools in hand trods through the snow.



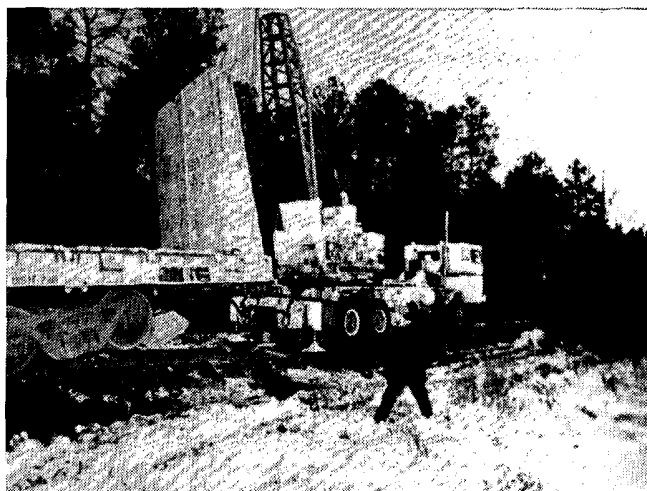
SNOWSTORMS in the EASTERN U.S. ---- continued



LEFT: A Wicomico County road worker spreads dirt on an ice-covered intersection west of Salisbury. RIGHT: A truck owner checks for vehicle damage after having veered into a ditch to avoid a possible collision with an out-of-control vehicle on an ice-slickened road near Parsonsburg, Maryland. Both photos were taken on January 23rd.



Salvage of a poultry truck that fell over in a ditch along U.S. 50 east of Salisbury during the second storm. Occasional zero visibility in blowing snow and an icy road surface under snow drifts caused the driver to drift off the roadway.

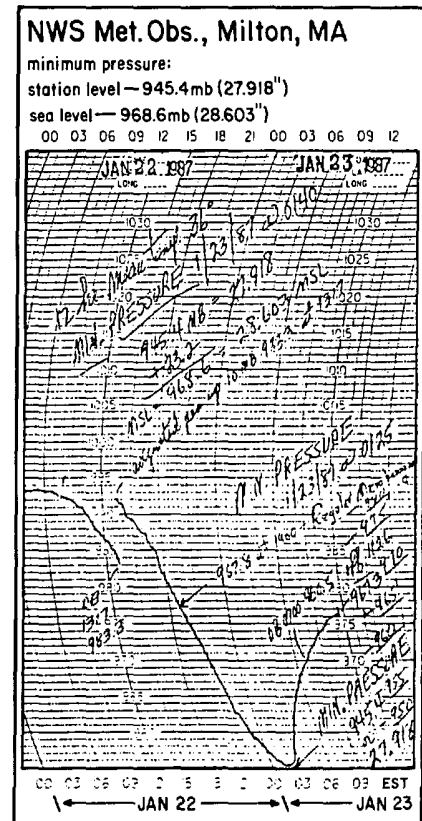
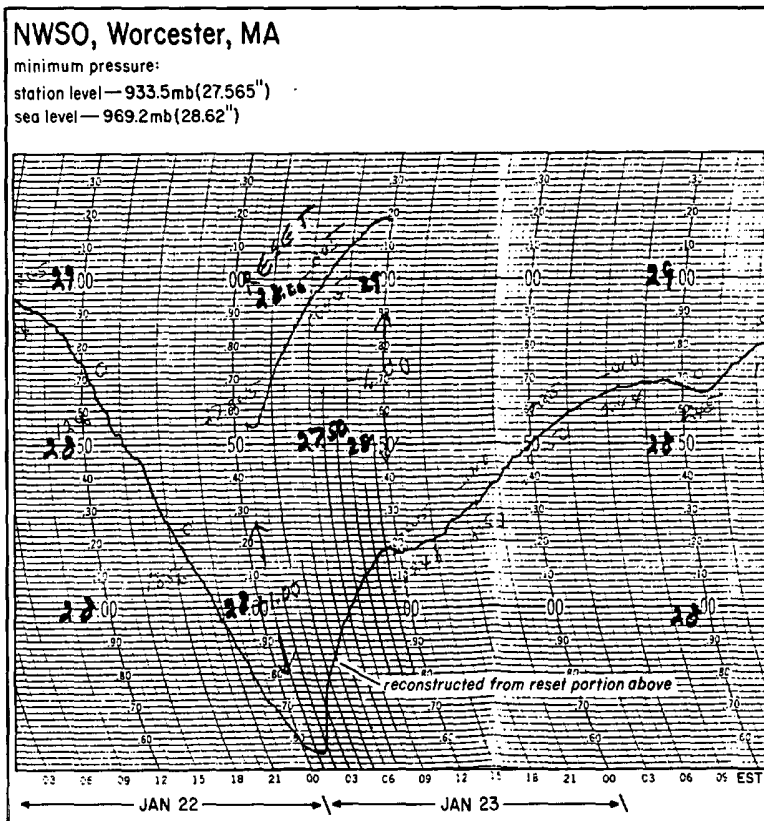


A train derailment near Hurlock, Maryland that occurred after the second storm is cleared. Poor roadbed conditions brought on by erosion from melting snow, and the train's having to plow through drifts were blamed for the accident.

---All photos on pages 15 and 16 by Milt Savage, The Salisbury Daily Times.

SNOWSTORMS in the EASTERN U.S. ---- continued

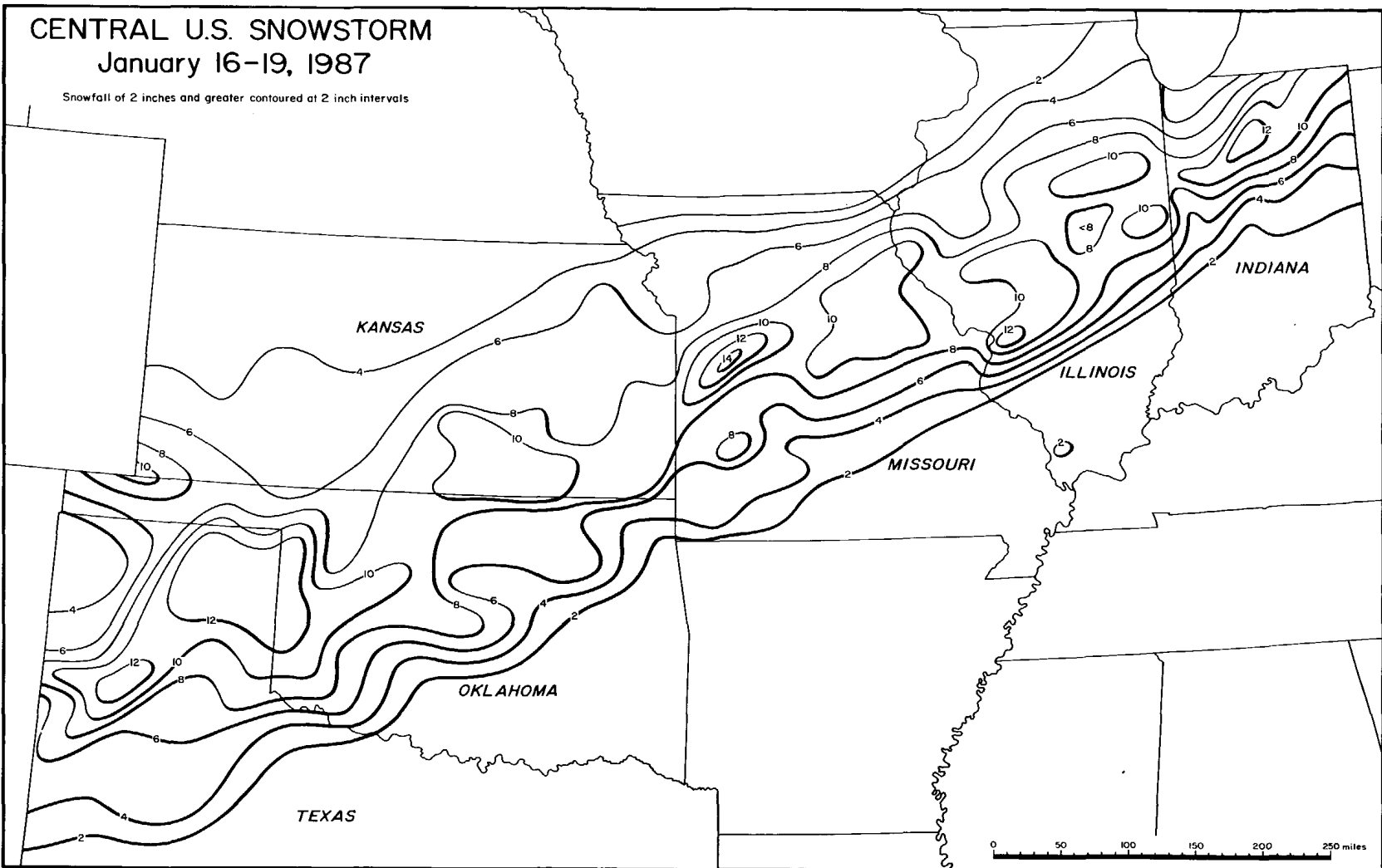
In New England, aside from the up-to-one-foot snowfall that caused traffic tie-ups similar to those experienced to the southwest, the January 22nd storm produced noteworthy, minimum surface pressure readings at many observing stations. Following the chaos caused by the snow that fell over the region during the 22nd, the storm's very deep, low pressure center moved northward through New England during the early morning hours of the 23rd. Although the pressures experienced were not record-setting, some were among the five lowest ever recorded for given stations.



Barograph traces for the January 22-23, 1987 storm from the NWSO at Worcester, Massachusetts and the NWS Blue Hill Meteorological Observatory at Milton, Massachusetts. The pressure at Blue Hill was the fifth lowest of record for the station; the station also encountered 73 mph winds during the storm. ---Both traces supplied by the Blue Hill Meteorological Observatory.

2. SNOWSTORM in the CENTRAL U.S. on January 16-19, 1987

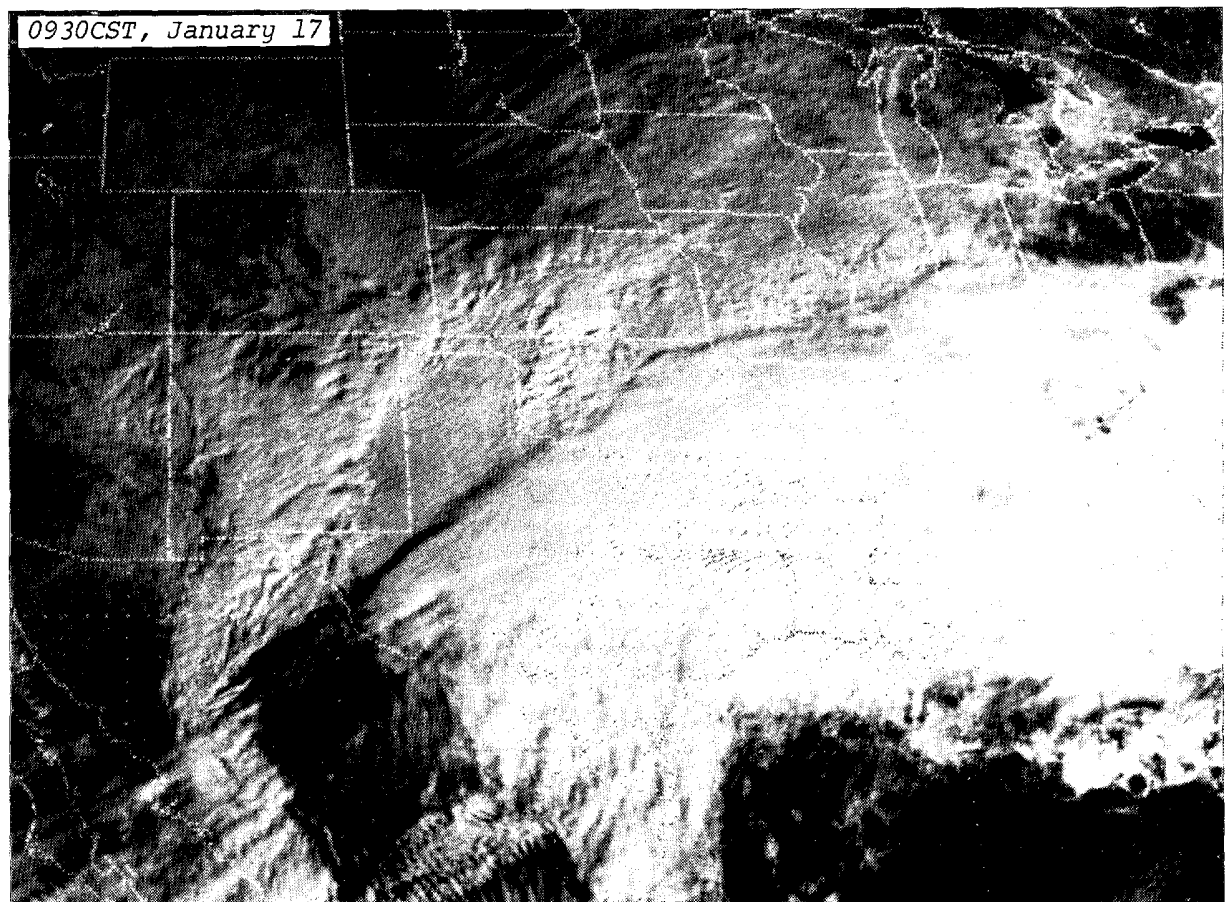
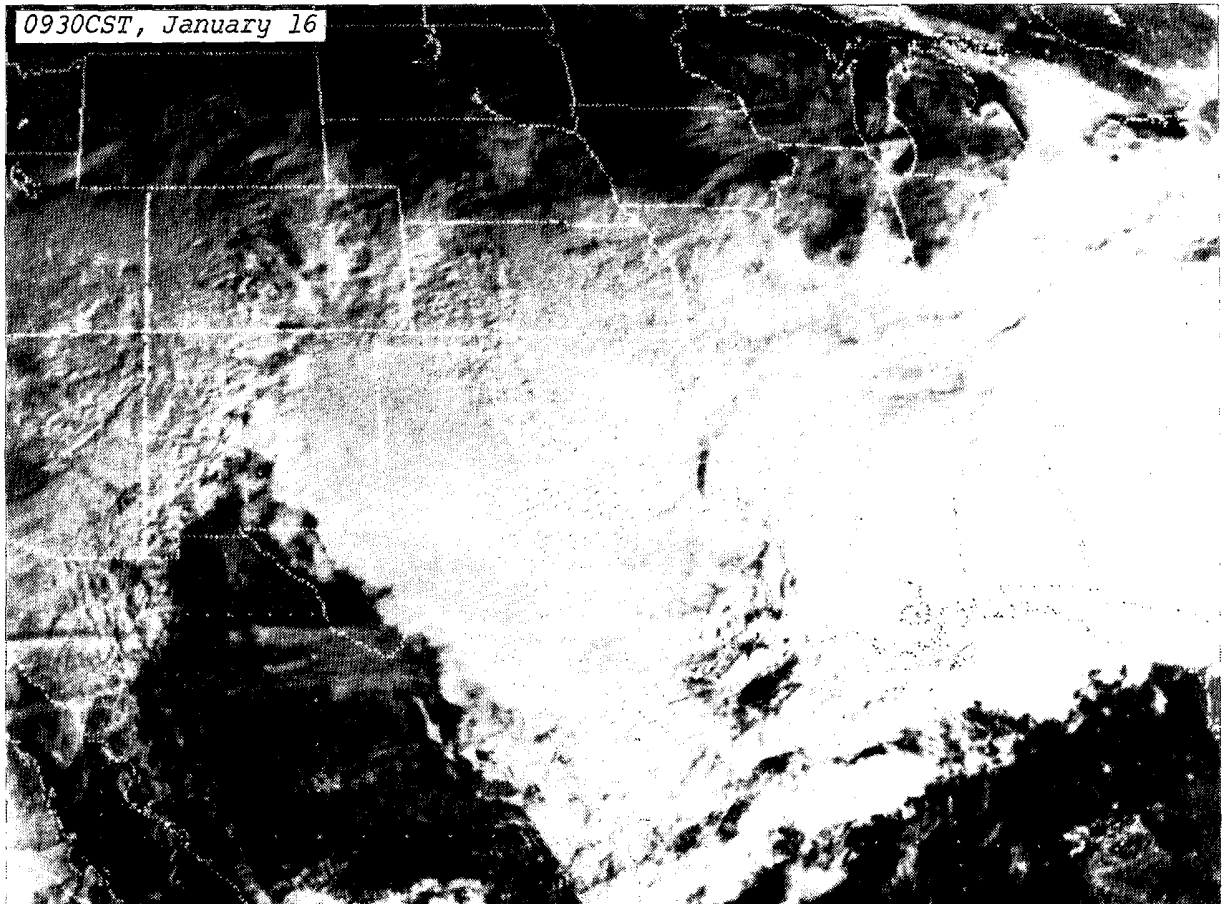
Although there was a lack of snowfall throughout the Central U.S. during the winter of 1986-87, one storm did produce a band of snowfall with peak amounts of slightly over a foot from the Texas Panhandle through Indiana, as well as heavy snows in the Four-Corner States to the west. Snows began during January 15th, west, and 16th, initiated by two short-lived systems, one near the Four Corners and one in northeast Texas, each of which stalled (see satellite photos, page 19). Ample moisture left in the areas by the disturbances allowed snows to continue until a new low pressure center formed late on the 17th off the Texas coast. The new system slowly organized and broadened as it lumbered northeastward during the next two days, intensifying snowfall as it went.



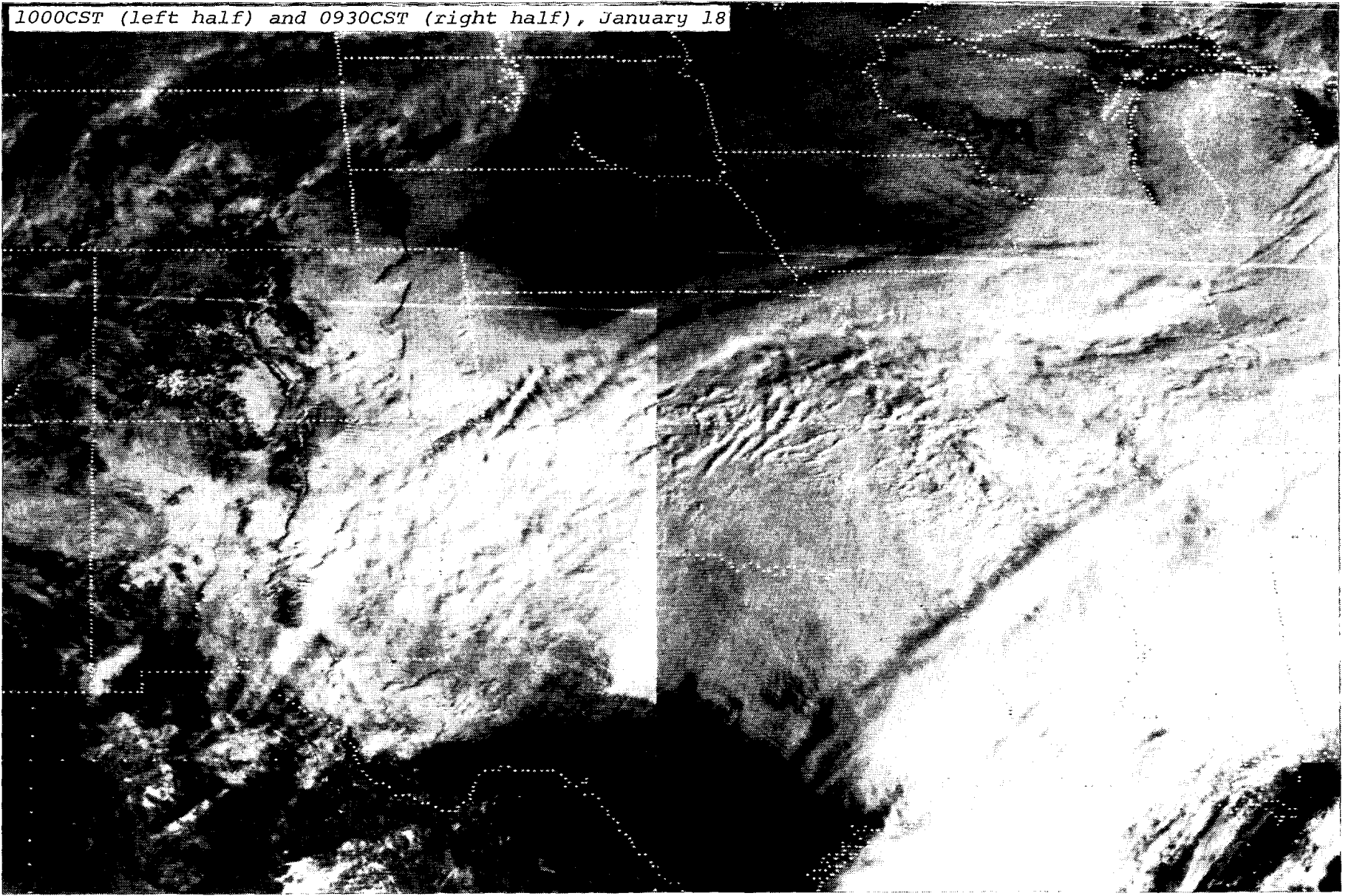
Contour analysis of snowfall in the Central U.S. for the period of January 16 through 19, 1987 as reported for the states of Texas (western), Oklahoma, Kansas, Missouri, Illinois, and Indiana. ---Data supplied by NWSFO's at Lubbock, TX; Norman, Oklahoma (Oklahoma City); Topeka, KS; St. Charles, MO (St. Louis); and Indianapolis, IN; and the Illinois State Water Survey, Champaign.

On pages 19 through 21, daily GOES 6 satellite, visible images show the cloud conditions that accompanied the snowstorm over the Central U.S. from January 16th through the 19th. ---All photos from NESDIS.

SNOWSTORM in the CENTRAL U.S. ---- continued

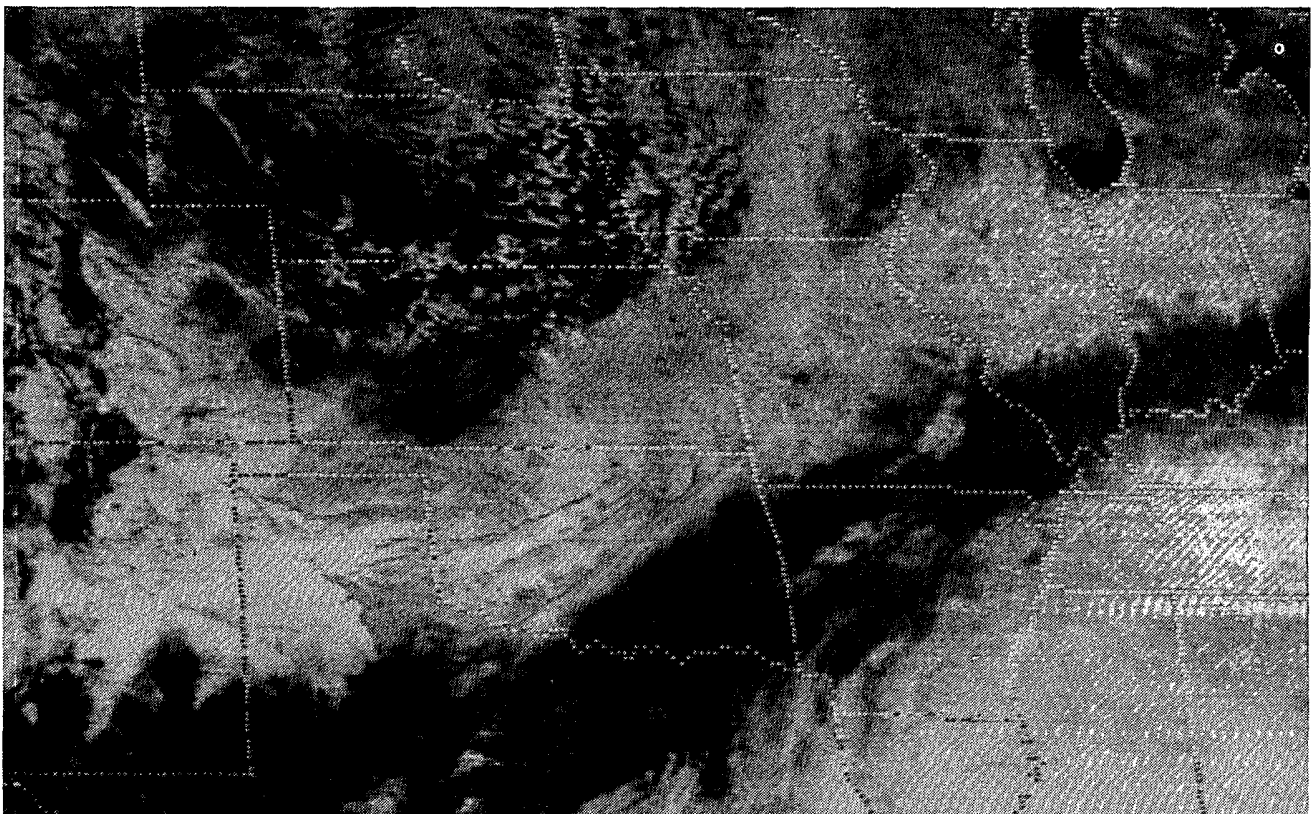
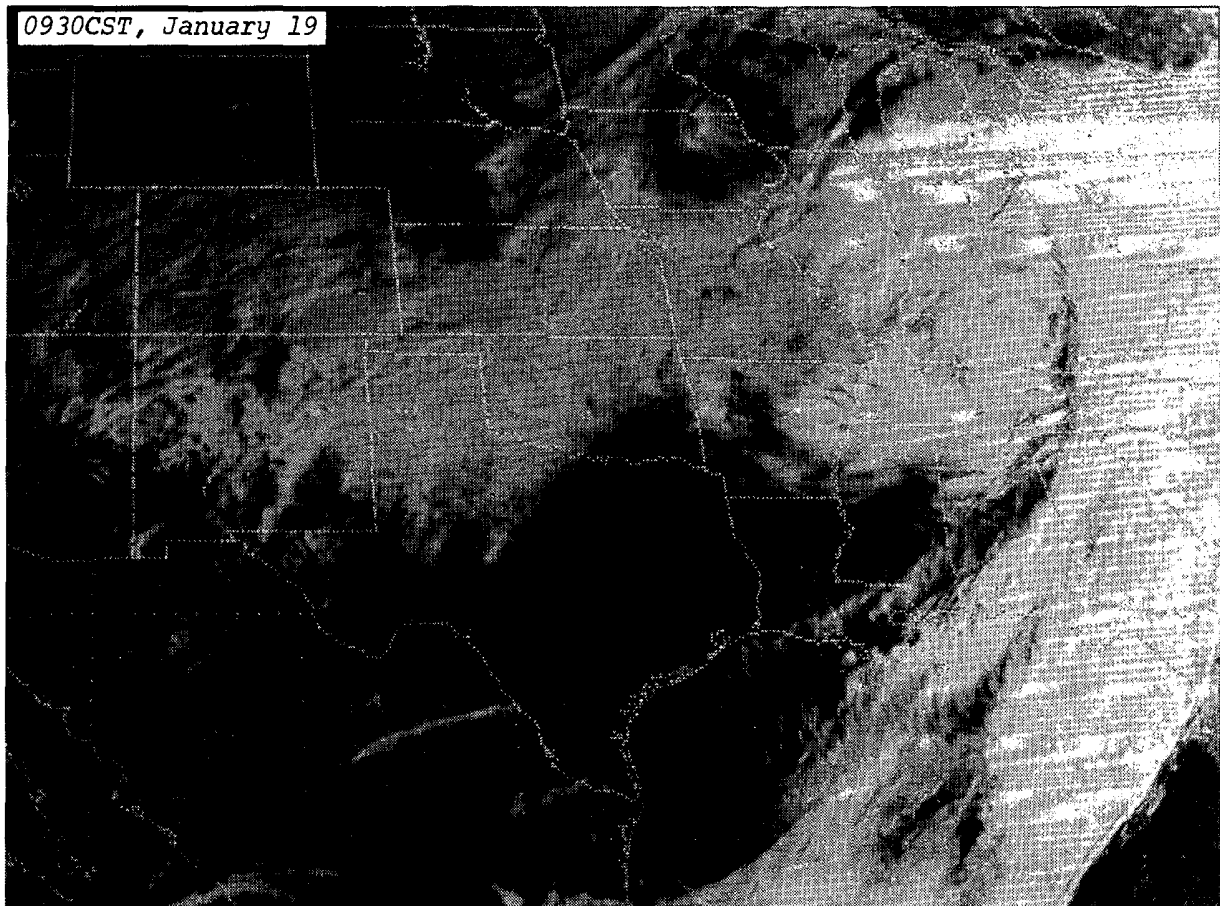


1000CST (left half) and 0930CST (right half), January 18



SNOWSTORM in the CENTRAL U.S. --- continued

SNOWSTORM in the CENTRAL U.S. ---- continued



This additional GOES image taken at 1430CST on January 21st shows the band of snow left from the Texas Panhandle through Indiana in the wake of the storm.
---Photo supplied by NESDIS and the NWSFO at Topeka, Kansas.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1987

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		
1 ALABAMA										
AL2005-006-007-008-009-011 Central Alabama	18	0620CST			0	0	?	?	Flood	Heavy rains that began during the evening of Jan. 17 and continued at times into the evening of Jan. 18 caused some flooding. The heaviest rains appeared to be in a broad band from near Livingston to Centreville, Birmingham and Cullman. Centreville had more than 7 inches of rain in some 28 hours while 3 to 4 inch storm totals were common in a broad band from around Montgomery to Huntsville. Lowland and small stream flooding apparently began over parts of west-central Alabama around 0620CST, when flooding was reported in Sumter County, and spread eastward during the day. By evening, some roads were under water in Bibb County, including a stretch of Alabama 25, the main route between Centreville and Greensboro. In East-Central Alabama, the main route between Ashland and Lineville was cut by high water and several roads were closed in Calhoun County. Cullman County reported one wooden bridge washed out. Flooding along the Sucarnoochee River in the Livingston area forced the evacuation of several families as flood waters surrounded several homes. There were no reports of water entering any dwellings there, but water was reported to have entered the basements of some homes in Shelby County. One couple escaped injury when their small car was carried some 100 yards downstream from a flooded roadway near Montevallo. The car was reported to have stalled when the driver turned onto the flooded roadway, and the couple swam to safety. Washed out tracks were reported to have caused the derailment of 35 cars of a 138-car train north of Prattville at about 0120CST on the 19th. Flooding along the Tombigbee, Alabama, Cahaba and Black Warrior Rivers was generally confined to adjacent lowlands as the runoff continued.
AL2003-005-006-007-011 East-Central and NE Alabama	22	0000CST			0	0	4	1	Heavy Snow	A major winter storm dumped heavy snow during the early morning hours from around Birmingham to Ft. Payne, Anniston and Lineville. The wet snow caused numerous power outages, especially over parts of Clay and Calhoun counties. Snowfall amounts by 0600CST totaled some 2 to 4 inches over most of the area and up to 6 inches in parts of Clay County and 8 inches in the Jacksonville area of Calhoun County. Numerous roads were closed, including the entire interstate system in the Birmingham Metro Area. Sunshine and moderating temperatures helped conditions to improve after mid-morning over most of the area, although some refreezing of roadways occurred after sunset.
2 ARIZONA										
AZZALL	15-18				0	0	?	?	Snow, cold	A very strong winter storm developed over the Great Basin and moved directly over Arizona. One to two feet of snow fell along the Mogollon Rim and White Mountains. Some light snow fell in Phoenix and a record 4.3 inches fell in Tucson. Travel was difficult and numerous traffic accidents were reported. Two fatalities were attributed to icy roads. A 120 mile stretch of I-10 east of Tucson was closed on the 17th due to ice and snow. Record cold set in, with a low of 19 in Tucson on the 17th, and 29 in Yuma on the 18th. Citrus crops in the Salt River Valley were spared from extensive damage although temperatures dipped to 20 at several key agricultural stations.
3 ARKANSAS										
Desha County	04	UNK			1	0	-	-	Low Temperature	A 49-year old man died of exposure to low temperatures in the county, according to the Arkansas Health Department.
4 CALIFORNIA, Northern										
Mount Shasta, Northern Mountains, and Sierra Nevada	03	1800PST							Snow	The heaviest snow of the season spread over the mountains in the northern portions of the state and the Sierra Nevada Range. Accumulations ranged from 8 to 20 inches, with 10 inches reported at Burney, 12 inches at Truckee, 16 inches at Badger Pass in Yosemite National Park, and 17 inches at Echo Summit.
— CALIFORNIA, Northern										
Healdsburg, Sonoma County	14	2000PST					1		Wind	Winds snapped a 70-foot-long limb which fell on a mobile home, crushing a 17-year-old female to death.
Northern San Joaquin Valley and Altamont Pass	15	1200PST							Wind	Northerly winds of up to 55 mph were recorded in the northern San Joaquin Valley and the vicinity of Altamont Pass.
Sierra Nevada	24	0800PST							Snow	Heavy snow fell in amounts between 8 and 12 inches in the Lake Tahoe area. Sierra Ski Ranch received 10 inches of snow, and Blue Canyon had about 1.50 inches of precipitation.
Sierra Nevada	28	0800PST							Snow	Moderate to heavy snow fell in the Sierras; 11 inches fell at Sierra Ski Ranch.
4 CALIFORNIA, Southern										
Southwest San Bernardino County	04	all day			0	0	?	0	Winter Storm	A winter storm brought heavy rains to the valley and snow to the higher elevations of southwest San Bernardino County on the 4th. In the Chino area, heavy rain (2.20 inches) and snow closed roads for a day, and minor street flooding left debris on roadways. Rainfall in excess of 1.86 inches in Fontana also left debris in roadways and caused heavy erosion to several flood channels. The San Bernardino area had 1.25 inches of rain which caused minor stream flooding and again, debris on roadways. At higher elevations in the San Bernardino Mountains, snow in excess of 15 inches closed roads for a day in the area including Blue Jay, Lake Arrowhead, Running Springs, Arrowbear Lake, and Green Valley Lake. By the 5th, only 50% of the secondary roads were open. Peak areas received even heavier snow amounts. North of the mountains, numerous shoulder washouts were reported in Phelan, Hesperia and El Mirage of the Baldy Mesa area at 1200PST on the 5th, even though barricades were in place.
San Gabriel Valley	09	1300PST			0	?	?	0	High Winds	A tractor-trailer and mobile business building were blown over and onto State Route 60 (Pomona Freeway), blocking traffic for several hours. The event resulted from strong "Santa Ana" winds that were prevalent throughout all of Southern California.
Entire Region (Southern California)	15-	nights			4	0	?	5	Arctic Air	Three nights with sub-freezing temperatures for extended periods of time resulted in heavy loss of frost-sensitive crops in the agricultural areas of Southern California. Four deaths were attributed to hypothermia. M550, M570, M500, P540
5 COLORADO										
CO2001-002-004-008-010 Mountains, Northwest	2-3				0	0	0	0	Heavy snow	Most spots in the mountains received 6 to 12 inches of snow, but there were greater amounts at some spots in Northern and Central Colorado. 19 inches fell at Vail, with 15 inches at Steamboat Springs. At lower elevations in Northwest Colorado, 10 inches fell at Meeker.
CO2002-004-008-010 Mountains	5-6				0	0	0	0	Snow	19 inches of snow fell at St. Paul in the San Juan mountains of Southwest Colorado. Purgatory ski area had 11 inches. Farther north, 13 inches of new powder piled up at Steamboat Springs. Most other spots in the high country had only 3 to 6 inches.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1987

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	PROPERTY	CROPS	
— COLORADO —											
Statewide except Northwest (CO2001-002)	14-16				0	0	0	0			Heavy snow
	Substantial snow fell over almost all of Colorado except in the northwest part of the state. 24 inches of light, fluffy powder piled up at Colorado Springs; 22 inches of that total fell on the 15th, an all-time 24-hour snowfall record for January. Schools were closed, and the Colorado Springs airport was shut down much of the day on the 15th. Interstate 25 through the city was closed for seven hours due to traffic accidents. Schools also closed in Pueblo, where 10 inches of snow fell, and in Durango, which was buried by 13 inches. Some schools also closed in the Denver area, where snowfall varied widely. 10 inches fell at Stapleton Airport, but amounts elsewhere in the metro area ranged from 3 inches in southeast Aurora up to 18 inches in the western and southwestern suburbs. Castle Rock, a normally snowy spot in Douglas County between Colorado Springs and Denver, had only an inch. 6 to 12 inches fell in the foothills west of Denver and Boulder. Heavy snow fell in the southern valleys; Alamosa had 8 inches, and Salida, in the Upper Arkansas Valley, was buried by 15 inches. Away from the foothills, the eastern plains of Colorado had 2 to 6 inches, with similar amounts near Grand Junction.										
	Snowfall also varied widely in the mountains. One to two feet fell in the Southern Mountains, with 4 to 8 inches in the Central Rockies. However, the high country in Northern Colorado had almost no snow. The heaviest snow of all fell in the foothills west of Pueblo. The town of Rye, at an elevation of 6900 feet, received an amazing 58 inches during the storm!										
CO2011-014-015 Eastern Foothills	19				0	0	0	0			Snow
	Rye received another 18 inches of snow. 5 to 10 inches fell in other spots in and adjacent to the eastern Foothills. Denver and Pueblo had 2 to 4 inches.										
CO2002-004 Northern, Central Mountains	24-26				0	0	0	0			Heavy snow
	A slow-moving storm deposited 8 to 16 inches of powder on the slopes of the Northern and Central Rockies in Colorado. Some areas had much more; 28 inches fell at Copper Mountain in Summit County. The snow contributed to numerous traffic accidents on the 25th. Farther south, 26 inches fell at Monarch Pass.										
CO2011 Front Range	26	1900MST			0	0	0	0			High winds
	A gust of 71 mph was recorded 3 miles SSE of Fort Collins.										
CO2002-004-011-012-014-015-016 Eastern Foothills, Northeast, Northern and Central Mountains	28-29				0	2	7	0			High winds
	Strong winds buffeted much of Eastern Colorado and also blew in the mountains. The peak gust recorded was 99 mph at 0008 MST on the 29th at the National Center for Atmospheric Research in Boulder. The nearby Rocky Flats plant also clocked 99 mph during the night. Other gusts in excess of 80 mph occurred along the foothills from Fort Collins south through the western sections of Colorado Springs. 60 to 80 mph gusts were noted as far east as Fort Morgan in Morgan County, and westward into the northern and central mountains. Total damage from the storm was estimated at 5.6 million dollars. Planes were damaged at the Boulder and Jefferson County airports; hangars were damaged at the latter site. Windows were broken all along the eastern foothills; signs were blown over, trees were downed. A brick wall was blown onto parked cars in the Denver suburb of Lakewood. A couple of homes were unroofed, while falling trees damaged others. Two people were injured by flying debris in Jefferson County at Lakewood and Golden. The strongest winds blew from early afternoon on the 28th until early morning on the 29th. In the mountains, up to a foot of snow accompanied the strong winds, causing blizzard conditions in some spots, along with numerous traffic accidents.										
6 CONNECTICUT											
CTZ001-003, Northern Portions	02	All day			0	0	0	0			Heavy snow
	Heavy snow fell over the northern portion of the state, with amounts reported up to 12 inches in the northwest corner and 7 inches in the northeast corner of the state. An intense coastal storm which moved northeastward to the east of Cape Cod brought the heavy snow which mixed with or changed to rain toward the coast. Poor road conditions hampered travel throughout the area.										
— CONNECTICUT —											
CTZALL, Statewide	22	Afternoon Evening			0	0	0	0			Heavy snow
	23	Morning									
	A very intense coastal storm brought heavy snow to all of the state. Amounts ranged from 6 to 12 inches. The greatest snowfall occurred in the western portion with amounts of 8 to 12 inches. The snow began during the early afternoon on Thursday and many employers released their employees at mid-afternoon. The sudden heavy volume of traffic and poor road conditions resulted in a severe tie-up on the roads in most urban areas. In the greater Hartford area, commuters were hours late, arriving home. During the evening, the heavy snow mixed with and changed to rain over the eastern portion of the state. The center of the intense low pressure system moved north-northeastward across the state from a point near New Haven, around midnight Thursday night. At New Haven, the barometric pressure dropped to 28.67 inches, and to 28.65 inches at Hartford where it was an all-time low record for the month of January.										
7 DELAWARE											
DEZ002-003	22	0400-1600EST			0	0	6	0			Heavy Snow
	Snow accumulations by zones were as follows: DEZ002.... 6 inches DEZ003.... 11 inches										
DEZ001-002-003	25	0800EST to 26 2200EST			0	0	6	0			Heavy Snow
	Snow accumulations by zones were as follows: DEZ001.... 15 inches DEZ002.... 12-14 inches DEZ003.... 8 inches										
8 FLORIDA											
Lee Co., Bonita Springs	04	1110EST	2.5	30	0	0	5	0			Tornado (F0)
	A tornado damaged 48 homes and mobile homes, causing mainly roof damage or damage due to falling trees. One mobile home was overturned.										
Palm Beach Co., Lake Harbor	04	1249EST	1.0	30	0	1	3	0			Tornado (F0)
	A tornado destroyed a mobile home and injured a 62-year-old woman who was inside the mobile home.										
Dade Co., Coral Gables	04	1340EST			0	0	0	0			TSTM wind (52)
	A wind gust to 52 knots was recorded at WSFO MIA.										
Broward Co., Pompano Beach	04	1445EST	1.0	30	0	0	5	0			Tornado (F0)
	A tornado damaged 32 mobile homes. Roofs were destroyed, screen enclosures were destroyed, power lines were downed and trees were downed.										
Dade Co., North Miami Beach	04	1500EST			0	0	4	0			TSTM wind (55)
	High wind damaged screen enclosures, downed power lines, uprooted trees and caused some minor roof damage.										
Hernando Co., Weeki Wachee	22	0630EST			0	0	4	0			TSTM wind (55)
	A carport was blown into a neighbor's yard.										
Pasco Co., New Port Richey	22	0635EST	1.0	30	0	0	4	0			Tornado (F0)
	A porch was destroyed and blown across a street, a small airplane was overturned, billboards were blown down and garden sheds were destroyed.										
Pinellas Co., Clearwater Beach	22	0650EST			0	0	3	0			TSTM wind (60)
	A wind gust of 60 knots was recorded. Thirty cars were damaged when pebbles were blown off a hotel roof onto the cars.										
Citrus Co., Crystal River	22	0700EST			0	0	0	0			Funnel cloud
	A funnel cloud was sighted by employees of the crystal river power plant.										
Hillsborough Co., Tampa	22	0700EST			0	0	0	0			Funnel cloud
	A sheriff's deputy reported a funnel cloud.										

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1987

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					KILLED	INJURED	PROPERTY	CROPS	
FLORIDA									
Pasco Co., Hudson	22	0710EST	1.0	30	0	0	4	0	Tornado (F0)
									A tornado blew off the roof of a mobile home and the roof of a carport.
Dade Co., Homestead	22	1030EST			0	0	0	0	TSTM wind (70)
									A wind gust of 70 knots was recorded by the Turkey Point power plant.
Dade Co., Homestead	22	1325EST			0	0	0	0	Funnel cloud
									A sheriff's deputy reported a funnel cloud.
9 GEORGIA									
Fulton County	18	1500EST			0	0	4	0	Flash Flood
DeKalb County	18	1500EST			0	0	?	0	Flash Flood
Douglas County	18	1515EST			0	0	4	0	Flash Flood
Cobb County	18	1530EST			0	0	?	0	Flash Flood
Gwinnett County	18	2050EST			0	0	4	0	Flash Flood
									Rainfall of 2 to 4 inches during the late morning and early afternoon produced flash flooding of many small and medium streams from the Douglasville area across the northern part of the Atlanta metropolitan area. Several houses and cars were flooded near Peachtree Creek, Nancy Creek, Sope Creek, Proctor Creek, Sweetwater Creek and the Yellow River.
Catoosa County	19	0215EST			0	0	?	0	Flash Flood
									Flash flooding closed several roads and forced the evacuation of two homes near Fort Oglethorpe.
Worth County	19	0300EST			0	0	5	0	Flash Flood
East Dougherty County	19	0300EST			0	0	4	0	Flash Flood
Northeast Mitchell County	19	0300EST			0	0	4	0	Flash Flood
									Rainfall of 4 to 6 inches was measured across this area during the night. Ponding of water flooded a total of 37 homes and 13 mobile homes. 13 roads were either washed out or put under water and closed. Evacuations were necessary south of Acree, in the west part of Sylvester and in Baconton.
GAZ001-002-003-004 North Georgia	21-22	2100EST 1000EST			0	0	?	0	Heavy Snow
									Rain turned to a heavy wet snow across north Georgia during the late evening on the 21st and continued through much of the morning on the 22nd. Snowfall of 5 to 9 inches occurred over a large part of the area north of a line from Atlanta to Athens. Up to a foot of snow was reported in the mountains of northeast Georgia. The heavy wet snow broke trees and power lines that left 75,000 homes without power. Some homes were without power for two days. The wet snow packed into ice on the roads and many accidents were attributed to the slick roads.
10 IDAHO									
IDZ004-010	1-2	overnight			0	0	0	0	Heavy snow
									Heavy snow fell New Year's afternoon and night on the mountains south of the Magic Valley. The Pomerelle Ski Area southeast of Burley picked up 12 inches of new snow. Soldier Mountain north of Fairfield got 8 inches of new snow.
IDZ003	3	overnight			0	0	0	0	Heavy snow
									Heavy snow fell in the mountains of northern Idaho. Schweizer Ski Area received 9 inches of new snow overnight.
IDZ002-004	14-15	overnight			0	0	0	0	Heavy snow
									Heavy snow fell on a small area of the Magic Valley and the adjacent mountains south of the Snake River overnight. Twin Falls measured 5 inches; Pomerelle Ski Resort southeast of Burley picked up 12 to 13 inches.
IDZ010	28	afternoon			0	0	4	0	Heavy snow
									Heavy snow fell during the afternoon, leaving 15 inches at Last Chance Inn in the Island Park area near the Montana border and Yellowstone Park. Eight inches fell at Ponds Lodge in the same vicinity. Grand Targhee Ski Resort got 8 to 10 inches.
11 ILLINOIS									
ILZ001-003-004-005-006	29	0200-0900CST			0	0	5	0	Ice storm
									Several hours of freezing rain produced a substantial ice accumulation which, in combination with gusty winds, caused many power lines to snap. Electric power outages were widespread. The most disruptive outages occurred in Henry, Stark, and Bureau counties, where 5200 customers were without power up to four hours.
12 INDIANA									
INZ001 through INZ011 Northern and Central Indiana	09	1000 - 2200 EST			0	0	?	0	Heavy Snow
									Four to ten inches of snow fell across northern and central Indiana on January 9. Snow began to fall over west-central Indiana late in the morning, along with some freezing rain. Snow spread across the northern two-thirds of the state by mid afternoon. The greatest accumulations of snow, generally eight to ten inches, occurred in west-central Indiana. Numerous traffic accidents occurred throughout the area.
INZ002 through INZ007 Northern Indiana	18-19	2300 EST 1500 EST			0	0	?	0	Heavy Snow
									Snow across parts of northern and central Indiana on January 19 ranged from four to fourteen inches. The snow began in west-central Indiana just before midnight on the 18th. Some freezing drizzle was mixed with the snow initially. By late morning, several roads and highways were closed in north-central Indiana where 20 to 25 mph winds were causing much blowing and drifting of snow. Numerous north-central Indiana counties were forced to declare snow emergencies. The heaviest snow, thirteen to fourteen inches, fell in Fulton County.
INZ001-002 North-Central Indiana	22-23	1130 - 1415 EST			0	0	?	0	Heavy Snow and Extreme Cold
									Two to nine inches of snow fell over north-central Indiana near Lake Michigan. Bitterly cold northwest winds gusting to 35 mph caused considerable blowing and drifting along with wind chill readings of 35 to 40 below zero.
13 IOWA									
Southeast Iowa IAZ007-008-011-014-015 and ILZ003	09	Morning-Evening			0	0	4	0	Snow and Heavy Snow
									Snow tracked across Southeast Iowa leaving 3 to 6 inch amounts in its wake. The heaviest snow fell over the far southeast and east-central counties, with 5 to 6 inches common. In many areas, it was the first significant snowfall in nearly a year. This resulted in numerous auto accidents and injuries. The Quad Cities alone reported 100 fender benders. There were 20 injuries due to auto accidents.
14 KANSAS									
KSZ009-011-012-013-014-015-016-017 East and Central Kansas	08-09	1800 to 1800CST			0	0	0	0	Snow
									Snow fell from the evening of the 8th through the evening of the 9th. Snow depths of 4 to 6 inches were measured at 0600CST the 10th east of a line from Ashland to Great Bend, Beloit and Marysville.
KSZ003-006-009-011-012-014-015-016-017 South, Central and Northeast Kansas	16-18	0000 to 2400CST			0	0	0	0	Snow
									Snow fell intermittently upon most of Kansas from early morning the 16th until late evening the 18th. Snow depths at 0600 the 19th showed more than 4 inches southeast of a line from Hiawatha to Salina, Great Bend and Tribune. Depths were greater than 8 inches southeast of a line from La Cygne to Garnett, Eureka, Hutchinson and Kiowa. Depths reached about a foot within 20 miles of the Oklahoma border east of Kiowa all the way to Missouri, and in an area 60 miles wide from Wichita to Arkansas City.
									Heavy snow fell for a time (listed separately) on the 17th in South-Central and Southeast Kansas.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1987

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					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	

KANSAS

KSZ012-017 Southeast and South-Central Kansas	17 1030 to 1800CST									Heavy Snow
<p>About 6 inches of snow fell in less than 12 hours southeast of a line from Anthony to Hutchinson, Wichita, El Dorado, Sedan and Columbus. Wichita measured 6.2 inches in that period.</p>										
KSZ001 Northwest Kansas	29 0300 to 1330CST									High Wind
<p>Northwest winds blasted the northwest corner of Kansas. Speeds averaged 30 to 40 mph an hour with frequent gusts greater than 50. Goodland measured a peak wind gust of 64 mph at 1157CST.</p>										

15 KENTUCKY

Southeast Kentucky	22- 0500 EST 25 1800 EST									Heavy Snow
<p>Snow began to fall over southeast Kentucky in the early morning on January 22 and continued to sporadically fall into the 24th. By late night on January 24th, an intense winter storm held the region under its grasp. The storm produced a combination of snow, sleet, and freezing rain across southeast Kentucky. The sleet and freezing rain were confined primarily to the extreme southern counties of eastern Kentucky where light coatings of ice were reported at a few locations. Elsewhere around southeast Kentucky, the precipitation was mainly in the form of snow with accumulations averaging between 4 and 12 inches. Especially hard hit areas were the counties of Jackson, Lee, Owsley, Breathitt, Magoffin, Floyd, Pike, and Letcher, which all averaged seven inches of snow or more. Whitesburg in Letcher County totaled twelve inches of snow. Transportation was greatly affected in this rural and mountainous area. Most all businesses and schools were closed.</p>										

16 LOUISIANA

Natchitoches Parish	24 2042CST									SVR TSTM-Wind
Caddo and Bossier Parishes	24 2050CST									SVR TSTM-Hail(0.8-1.0)
Webster Parish	24 2052CST									SVR TSTM-Hail(1.0)
Natchitoches and Winn Parishes	24 2105CST									SVR TSTM-Hail(1.0)
Desoto Parish	24 2122CST									SVR TSTM-Hail(1.0)
Claiborne Parish	24 2131CST									SVR TSTM-Hail(1.0)
Bienville Parish	24 2147CST									SVR TSTM-Hail(0.8)
Red River Parish	24 2150CST									SVR TSTM-Hail(1.0)
Sabine Parish	24 2152CST									SVR TSTM-Hail(1.0)
Desoto Parish	24 2155CST									SVR TSTM-Hail(1.0)
Natchitoches Parish	24 2238CST									SVR TSTM-Hail(0.8)
Winn Parish	24 2258CST									SVR TSTM-Hail(1.0)
<p>An area of numerous severe thunderstorms moved rapidly northeast across northwest Louisiana producing widespread reports of large hail from 2042CST to 2258CST. At 2042CST, straight-line winds blew down several trees near Robeline in Natchitoches Parish. 0.8-1.0 inch hail fell in northern Shreveport (Caddo Parish) and southern Bossier City (Bossier Parish) about 2050CST. One inch hail was reported at Cotton Valley in Webster Parish at 2052CST. Quarter size hail fell east of Campti (Natchitoches Parish) and west of Dodson (Winn Parish) at 2105CST. One inch hail fell between Loganport and Mansfield in Desoto Parish about 2122CST. Quarter size hail was reported between Honer and Haynesville in Claiborne Parish around 2131CST. Nickle size hail fell at Castor in Bienville Parish about 2147CST. One inch hail was reported between Hama and Halle Summit in Red River Parish around 2150CST. Quarter size hail fell 15 miles west of Many in Sabine Parish around 2152CST. At 2155CST, one inch hail was reported between Mansfield and Coushatta in Desoto Parish. About 2238CST, nickle size hail fell 5 miles southeast of Natchitoches in Natchitoches Parish. Finally, around 2258CST, one inch hail fell near Atlanta in Winn Parish.</p>										
St. Charles Parish	27 1145CST									Fog
<p>Three chain-reaction accidents occurred when dense fog shrouded the I-10 bridge over the Bonnet Carre Spillway in St. Charles Parish. Four German nationals were burned to death after their small car was hit by a tractor-trailer truck. In addition, four people were injured in the other accidents; two were hospitalized. M55V, M56V, P53V, P54V</p>										

17 MAINE

MEZ 001-002-003-004-005-006-007-008-009-010-011-012-013-014 Statewide	02 0100EST									Nor'easter
<p>A low pressure area formed off the South Carolina coast early Thursday afternoon and intensified as it moved northeast paralleling the Atlantic seaboard. By 0700EST Friday, it had developed into a full-blown "Nor'easter" located about 150 miles south of Providence, RI. The storm slowed down but continued to intensify, and by 0700EST Saturday, it was some 90 miles due east of Portland, ME. The storm passed west of Mount Desert Rock around noon, then accelerated and arrived over Newfoundland Island, Sunday morning. Tides were unusually high due to celestial alignment, but were also enhanced by the strong winds in this storm. On Friday the 2nd at 1224EST, the official high tide in Portland Harbor stood at 12.84 feet above mean low water, which becomes the sixth highest tide ever recorded there since records began in 1912. This tide was higher than the December 3, 1986 tide, but damage was not as bad due to the winds being out of the north and northeast. Nearly every coastal community closed their shore roads around the time of high tide, when ice-choked water not only flooded streets, but also basements of homes in low-lying areas. Seaside municipalities generally reported no major damage, but some beach erosion, with rocks and debris scattered in beach areas, and some basement flooding. Coastal towns in York County appeared hardest hit by tidal problems. The Camp Ellis section of Saco reported that a private breakwater was destroyed. As a result, beachfront homes suffered erosion around their foundations, leaving a few teetering. Gooch's Beach in Kennebunk lost part of a seawall. York Beach reported major flooding for about one mile on Route 1A (Long Beach Avenue). In Portland (Cumberland County), the Portland Pier flooded and water just reached Commercial Street. Portland's large navigational buoy reported 21-foot waves. This rough surf, 10 to 21 foot waves, generated too many onlookers, which in turn hindered the removal of ice chunks, large rocks and ocean debris from shore roads. The Hancock County towns of Trenton and Southwest Harbor reported the highest peak gusts in the storm of 82 mph (71 knots). Peak gusts of 40 to 50 mph were common statewide. At sea, the automated Coast Guard Station on Mount Desert Rock had the highest peak gust of 76 mph (66 knots), while the rest of these type stations had peak gusts in the 54 mph (47 knots) to 60 mph (52 knots) range. Wind damage was reported in York Beach (York County) where winds collapsed a 12-foot-high by 100-foot-long wooden wall at the Ocean House construction site. Brunswick (Cumberland County) reported a store front, plate glass window was blown in, Friday. In Dover-Foxcroft (Piscataquis County), a 10 x 30 foot piece of flat metal roofing was ripped off the old Mayo Hospital, Friday. In Brooklin (Hancock County), the Brooklin Baptist Church lost shingles and some siding due to high winds, Friday. In Houlton (Aroostook County), a partially constructed 28 x 48 foot storage building at the Houlton Regional Hospital was severely damaged by winds on Friday evening. The combination of the winds and snow closed the Maine Turnpike to all commercial traffic from 1000EST to 1600EST Friday, where about 100 vehicles had to be towed. The snow and wind tore down power lines, causing power outages in the Cumberland County towns of Gray, Yarmouth, Falmouth, and Cumberland for up to 5 hours. Air traffic was virtually nonexistent at both Portland and Bangor International Airports. Very light snow began to fall shortly after midnight over the south and spread slowly north, finally reaching Limestone around 1730EST on Friday the 2nd. It was a wet snow and mixed with sleet and/or freezing rain in many locales. This caused a dense layer of packed snow to form on roadways, making for very poor travel conditions, and later on, difficult snow removal. The snow ended in the south around 1000EST and, finally, in the north around 2300EST Saturday. Peak snow intensities of 1 to 2 inches per hour were common over southwest and central Maine. Portland reported 10 inches in 8 hours (1100 to 1900EST); Augusta 6 inches in 4 hours (1300 to 1730EST); and Skowhegan 5 inches in 3 hours (1430 to 1730EST). Because of the advanced warning on this storm, traffic was considered light and slow moving. However, there were still numerous auto accidents, abandoned vehicles, and skidding mishaps which left hundreds of vehicles stuck well off roadways statewide. There were no deaths reported, but there were three serious storm-related injuries. In Eddington (Penobscot County), a 76-year-old woman was critically injured when broadsided as she backed out of a driveway late on Friday morning. Near Calais (Washington County), a head-on crash on Route 1 early Saturday afternoon hospitalized a female and male, ages unknown and one from each vehicle, with serious injuries. Businesses and many state and local government agencies closed early Friday, while most high school sporting events were cancelled. Snow removal became a sore spot for many communities, as it took several days for travel to approach normalcy. South of a line from Jackman to Millinocket saw snow amounts from 6 inches ranging up to 24 inches in the extreme southwest. North of this line, snowfall was in the 4 to 7 inch range, with central Aroostook, northeast Piscataquis, and northwest Penobscot Counties recording the heavy snow amounts of 6 to 7 inches. Following is a list of the heavy snow amounts in inches and by zone:</p>										

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					KILLED	INJURED	PROPERTY	CROPS	

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MAINE

.....ZONE 001.....ZONE 007.....ZONE 011.....
Caribou 4	Bangor 11-12	Newcastle 17.5
Fort Kent 7	Dexter 11	Rockland 15
Portage 7.5	.....ZONE 008.....	Thomaston 18
.....ZONE 002.....	Blue Hill 10-12	West Rockport 14
Grand Lake 7	Ellsworth 12	.....ZONE 012.....
Houlton 4	.....ZONE 009.....	Bethel 14
.....Zone 004.....	Brassua Lake 5	New Sharon 11
Eastport 6	Comstock TWP 5	Norway 14-16
Machias 8	Eustis 10	Rumford 14
.....Zone 005.....	Harris Dam 6	Sunday River 12-14
Allagash 5	Middle Dam 9	West Paris 14
Ripogenus Dam 6	Moxie Falls 7	.....ZONE 013.....
Telos Lake 7	Phillips 15	Bridgton 14-16
.....ZONE 006.....	Sugarloaf Mtn. 9	Buxton 22
Blanchard 7.5	Wyman Dam 9	East Hiram 18
Guilford 7.2	.....ZONE 010.....	Gorham 21
Medway 5	Auburn 15	Hollis 16-17
Millinocket 5	Augusta 17	Waterboro 22-24
Wilo 7	Harmony 7	.....ZONE 014.....
Moosehead 6	Lewiston 15	Brunswick 14
Squaw Mtn. 9	Livermore Falls 11	Eliot 20
	Skowhegan 11	Portland 16-20
	Topsham 20	York 20
	Waterville 12	Ogunquit 22

MEZ 001
Capital District

08 1535EST 1 0 3 Light Snow

A light falling snow combined with ice and snow-covered roads in producing slick conditions that caused a fatality. A 73-year-old woman driver was killed when she lost control of her car and skidded into the path of an oncoming pickup truck on Marston Road in Gardiner. Excessive speed was not involved in the death, but the impact was on the car's driver's side.

MEZ 001-002-003-004-005-006-007-008-009
010-011-012-013-014
Entire State

10- 0600EST 1 6 6 Heavy Snow

A low pressure area over southern Michigan, early Saturday morning had an occluded front that extended into the extreme western Carolinas. The low moved slowly east, while the front raced northeast. A new low formed off the New Jersey coast late Saturday night and intensified rapidly as it moved northeast just off the New Hampshire and Maine coasts Sunday. It arrived over Cape Breton Island early Monday morning. Very light snow began falling over southwestern Maine around 0600EST Saturday, finally reaching extreme northern Maine around 1900EST. Its intensity picked up on Saturday night and Sunday, and it finally ended in the south at about 1900EST Sunday and over extreme northern Maine at 0900EST Monday. Most communities reported precipitation lasting for 30 hours or more. Snowfall amounts varied from 4 to 27 inches across the state. Only the extreme southwest and southeast corners of the Maine coast reported less than 6 inches. Coastal sections had a mix of snow, rain, sleet, and freezing rain, which produced minor but widespread power outages. The hardest hit was the coastal communities of York County where 3,700 households from York to Old Orchard Beach were powerless during the weekend as the precipitation turned to freezing rain. The freezing rain broke off the snow-laden branches which took down powerlines. About 500 to 600 residents of York, Wells, Eliot, and Ogunquit were affected until midnight Sunday. The Ogunquit Police Department was on its own power generator from 0500 to 1200EST Sunday. Police, statewide, reported numerous fender-benders and auto accidents along with many vehicles sliding off roads. There was one death attributed to the storm. It occurred in Standish (Cumberland County) on Route 35, Saturday afternoon. A 43-year-old male was killed when the car in which he was a passenger collided with another car. There were 6 serious injuries in 3 separate auto accidents. The worst was in Bridgton (Cumberland County) where 3 people in a pickup truck were hospitalized when the pickup broadsided a plow. In Paris (Oxford County) on Route 119, late Saturday afternoon, a car went out of control and into the opposite lane, striking another car. A 21-year-old driver and her 16-year-old passenger were injured and hospitalized. At 0700EST on the 12th in West Farmington (Franklin County), a 19-year-old male driver lost control of his vehicle on a sharp curve on Water Street, Routes 2 and 4, and collided with a town-owned grader. One of the 4 passengers was hospitalized with a fractured elbow. The worst of the many multiple-car pileups occurred in Newcastle (Lincoln County) on Saturday afternoon and involved 8 cars in front of Foster's Antiques on U.S. Route 1. No injuries occurred, but damage was estimated at \$15,500. The 78-foot fishing vessel, "Captain Bligh" was run aground on the south end of Baker Island (Hancock County) at 0340 EST Sunday by 8 to 13 foot seas and gale force winds. Three fishermen were stranded but not injured, while the vessel was badly damaged. Statewide, wind gusts between 30 and 40 mph were common and produced considerable drifting and poor visibility over most of the inland sections of the state where the snow was of the dry, fluffy variety. This, coupled with the length of the storm, produced many problems with travel and snow removal, causing many Sunday church services to be cancelled, and many school districts to close or open late on Monday. Following is a list of heavy snowfall amounts in inches and by zones:

MAINE

.....ZONE 001.....	.....ZONE 009.....	.....ZONE 013.....
Caribou 8.5	Brassua Lake 12	East Hiram 8
Fort Kent 16	Comstock Twp. 10	Gorham 18.5
Portage 13	Eustis 16.3	Limington 8
Presque Isle 14-16	Flagstaff Lake 11	North Berwick 4
.....ZONE 002.....	Kingfield 15.8	Parsonsfield 12
Grand Lake 26	Middle Dam 10	Sanford 8
Houlton 19	Phillips 16	Waterboro 8
.....ZONE 003.....	Upper Dam 10	.....ZONE 013 SKI AREAS
Grand Falls 10	.....ZONE 010.....	Pleasant Mt. 10-12
Vanceboro 14	Augusta 11	.....ZONE 014.....
West Grand Lake 14	Harmony 9	Brunswick 13
.....ZONE 004.....	Livermore Falls 9	Kennebunkport 4
Eastport 4	Pittsfield 20	Old Orchard Bch. 8
.....ZONE 005.....	.....ZONE 011.....	Portland 11.8
Allagash 16	Rockland 13	
Clayton Lake 13	.....ZONE 012.....	
Ripogenus Dam 24	Bethel 12	
Telos Lake 27	Farmington 17-18	
.....ZONE 006.....	Lovell 12	
Blanchard 16	New Sharon 12.8	
Guilford 13.5	Oxford Hills 12	
Millinocket 20	Rumford 10	
Wilo 17	West Paris 10	
Moosehead 11	.....ZONE 012 SKI AREAS	
.....ZONE 007.....	Mt. Abrams 8-12	
Bangor 18		

MEZ 008-014
Coastal

12 0730EST 1 3 5 Slippery Road Conditions

Slippery roads in the aftermath of heavy snows and mixed precipitation along the coast Saturday and Sunday were the cause of one death in Brunswick (Cumberland County) and 3 serious injuries in Northport (Waldo County) Monday morning. A 25-year-old female driver lost control of her station wagon on a curve on River Road in Brunswick. She slid into the path of an oncoming car. Two cars collided on Beech Hill Road in Northport at 1135EST. Three people were hospitalized and both vehicles were totalled.

MEZ 008
Mount Desert Island

12 AMEST 0 0 4 Heavy Snow Load

In Bar Harbor (Hancock County) a heavy snow load collapsed 60 feet of roof at the EPI Sub Shop. There were no injuries.

MEZ 013
Southwest Interior

15 0530EST 0 0 5 Black Ice

Light rain and drizzle turned to black ice on some roadways due to the cold surfaces, causing many minor accidents during the commuter hours. The worst was in Berwick (York County) on a one-half mile stretch of Route 236, where 15 vehicles lost control on the ice and most of these were involved in collisions. Route 236 was closed for a few hours.

MEZ 013-014
Southwest

18 1200EST 0 0 5 Snow and Freezing Rain

A weak low pressure area between Lake Huron and Lake Erie at 0700EST Sunday, moved east-southeast. This produced light snow over the state Sunday afternoon and night. Snow amounts were generally in the 2 to 5 inch range statewide. The exception was southeast Maine, where coastal sections had an inch or less. However, away from the coast, Vanceboro (Washington County) had 6.5 inches while in Penobscot County, Bangor and Springfield had 5.8 and 8.0 inches respectively. Over southwestern Maine, the snow mixed with freezing rain, making for extremely slippery road conditions for countless weekend skiers returning south in the afternoon. There were numerous accidents involving mostly minor damage and cars skidding off roads. The worst were the 4 or 5 chain-reaction accidents involving 30 cars in a quarter-mile section of the Maine Turnpike in the southbound lane about one mile north of the York toll (York County) occurring just before 1600EST. The turnpike was closed south of the Wells exit from 1600 to 1730EST. There were no serious injuries, but seven people received medical care and were released.

MEZ 010
Capital District

19 0630EST 1 7 4 Slippery Road Conditions

A 36-year-old woman was killed instantly and 7 other people were injured at 0630EST on Route 133 in Wayne (Kennebec County). The car in which she was riding slid out of control on the icy road and slammed broadside into an oncoming car. The 3 remaining people in her car were seriously injured, while 1 of 4 brothers in the other car remained hospitalized.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM																																																																					
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<p>A low pressure area formed in the northeastern Gulf of Mexico Wednesday night and moved across northern Florida into the Atlantic Thursday morning. The low moved along the Eastern Seaboard and intensified into a major winter storm. Thursday night it was located off the Virginia coast and moved rapidly northeast across Cape Cod, then north between Portland and its large navigational buoy, reaching central Maine by 0700EST Friday. It continued north, arriving over the Ungava Peninsula in Quebec Province Saturday morning. Portland tied its lowest sea-level pressure ever recorded in January, early Friday morning, at 28.59 inches first set January 9, 1978. Pressure records began February 1, 1871. There were few auto accidents and cars sliding off roads due to the advance warnings. Many businesses and industries curtailed or closed operations early Thursday and Friday, allowing employees to leave early or remain at home. There were no deaths or injuries reported. The snow mixed with or changed to sleet, freezing rain and rain along the coast and east of the storm's path through Maine, holding snow amounts down in these areas. Wind gusts of 30 to 40 mph were common statewide. Portland reported its peak gusts at 45 mph on Thursday and 44 mph on Friday. Along the coast from Rockland to Eastport there were estimated gusts of 60 to 70 mph. At Rockland (Knox County), the Maine State Ferry Service reported wind gusts of 70 mph which cancelled service to Vinalhaven. Thursday night in Searsport (Waldo County), the gale force winds and high seas, 15 to 20 footers, beached the bow of the 600-foot Greek freighter "Ithist" and wedged it between two docks. It was freed on Friday morning's high tide with minimal damage. In Hancock County, Southwest Harbor reported that a 44-foot Coast Guard motor lifeboat broke loose from its dock when a cleat on its deck broke off. The vessel then apparently rammed into a lobster boat, causing damage to both. A 65-foot harbor tanker broke loose from its anchor mooring and ran aground near the head of the harbor. At Acadia National Park, unusually high tides and seas Friday morning destroyed rail fencing and a portion of seawall on Route 102A between Southwest Harbor and Seal Harbor and damaged about 1/4 of the dune area of sand beach. High waters flooded a portion of seawall on Route 102A between Southwest Harbor and Seal Harbor, closing the road with water not seen this high in many years. The strong winds toppled trees and limbs onto or through power lines, causing scattered-but-mostly-minor power outages statewide. The worst hit area was Friendship and part of Cushing (Knox County), where 2,500 customers were without power from 0230 to 0900EST Friday when a pole broke under the weight of the snow, ice and high winds. In Sabbathus (Androscoggin County), ice-caked wires broke rendering 2,000 users powerless for about two hours Thursday evening. In Saco (York County), the roof of the Courtyard Raquetball Club buckled under the weight of the snow early Friday morning. Most schools were closed Friday and cancelled their sporting events for Friday night. Following is a list of snowfall amounts in inches and by zones:</p> <table style="width: 100%; border: none;"> <tr> <td>.....ZONE 001.....</td> <td>.....ZONE 006.....</td> <td>.....ZONE 011.....</td> </tr> <tr> <td>Caribou 9.4</td> <td>Blanchard 8</td> <td>Rockland 8</td> </tr> <tr> <td>Fort Kent 6</td> <td>Dover-Foxcroft 8</td> <td>Newcastle 7.3</td> </tr> <tr> <td>Portage 8.5</td> <td>Guilford 12</td> <td>.....ZONE 012.....</td> </tr> <tr> <td>Squa Pan Dam 13</td> <td>Millinocket 6</td> <td>Bethel 8</td> </tr> <tr> <td>.....ZONE 002.....</td> <td>Milo 6-10</td> <td>Lovell 14</td> </tr> <tr> <td>Grand Lake 11</td> <td>Moosehead 6</td> <td>New Sharon 8</td> </tr> <tr> <td>Houlton 5</td> <td>.....ZONE 007.....</td> <td>Rumford 7</td> </tr> <tr> <td>.....ZONE 003.....</td> <td>Bangor 4.6</td> <td>West Paris 9</td> </tr> <tr> <td>Forest City 3</td> <td>Springfield 4</td> <td>.....ZONE 013.....</td> </tr> <tr> <td>Grand Falls 8</td> <td>.....ZONE 009.....</td> <td>East Hiram 15</td> </tr> <tr> <td>Vanceboro 3</td> <td>Brassua Lake 6</td> <td>Gorham 11</td> </tr> <tr> <td>West Grand Lake 7</td> <td>Comstock Twp. 12</td> <td>Sanford 12</td> </tr> <tr> <td>Woodland 6</td> <td>Eustis 7.6</td> <td>.....ZONE 014.....</td> </tr> <tr> <td>.....ZONE 004.....</td> <td>Flagstaff Lake 8</td> <td>Brunswick 8</td> </tr> <tr> <td>Eastport 2.3</td> <td>Jackman 13</td> <td>Portland 6.2</td> </tr> <tr> <td>.....ZONE 005.....</td> <td>Kingfield 6</td> <td>So. 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<p>A 36-year-old female was killed when the car she was driving apparently skidded on ice-coated South Street in Holden (Penobscot County), rolled onto its side and struck a utility pole. She was alone at the time.</p>																																																																														
MEZ 003-004-005-006-007-008-009-010-011-012-013-014 All but northern ME	30-	1400EST			0	0	6		Nor'easter																																																																					
<p>A low pressure area was located over southern Lake Huron Friday morning with a weak stationary front extending east-southeast to just off the Rhode Island coast. This system redeveloped off the New Jersey coast late Friday night, intensified as it moved east, and was located about 100 miles east of Cape Cod by 0700EST Saturday. It continued to intensify as it moved northeast, arriving near Sable Island around 0700EST Sunday. Northern Maine, extreme south-east Washington County, and a narrow band in the center of the state reported snow accumulations from 1 to 5 inches. The rest of the state reported heavy snows of 6 to 14 inches. The snow began over southwest Maine around 1600EST Friday and spread slowly north and east. The snow lasted approximately 24 hours. At the onset, the powdery snow and cold pavement made road surfaces as</p>																																																																														
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<p>slippery as ice rinks over southern Maine, producing numerous skiddings, rollovers, and fender-benders, with no deaths or serious injuries reported. The worst accident occurred on I-95 near the Freeport-Brunswick town line (Cumberland County), where 30 cars piled up in a pair of chain-reaction collisions, closing the south-bound lanes from Freeport to Brunswick from 1600 to 1800EST. The Maine Turnpike's northbound lanes were temporarily closed late Friday afternoon from Gray (Cumberland County) to Auburn (Androscoggin County) after an accident involving several tractor-trailers, and the speed limit was reduced to 45 mph and stayed in effect well into Saturday. Following is a list of snowfall amounts in inches and by zones:</p> <table style="width: 100%; border: none;"> <tr> <td>.....ZONE 001.....</td> <td>.....ZONE 007.....</td> <td>.....ZONE 011.....</td> </tr> <tr> <td>Caribou 0.8</td> <td>Bangor 5-6</td> <td>Newcastle 7.1</td> </tr> <tr> <td>Fort Kent 2</td> <td>Milford 7</td> <td>Rockland 9</td> </tr> <tr> <td>Portage 3.5</td> <td>Springfield 2</td> <td>.....ZONE 012.....</td> </tr> <tr> <td>.....ZONE 002.....</td> <td>West Enfield 5</td> <td>Bethel 10</td> </tr> <tr> <td>Grand Lake 4</td> <td>.....ZONE 008.....</td> <td>Lovell 9</td> </tr> <tr> <td>Houlton 4</td> <td>Ellsworth 7</td> <td>New Sharon 8</td> </tr> <tr> <td>.....ZONE 004.....</td> <td>.....ZONE 009.....</td> <td>Rumford 11</td> </tr> <tr> <td>Eastport 3.3</td> <td>Brassua Lake 9.1</td> <td>West Paris 9</td> </tr> <tr> <td>Lubec 13</td> <td>Comstock Twp. 4.5</td> <td>.....ZONE 013.....</td> </tr> <tr> <td>Machias 10</td> <td>Eustis 9.8</td> <td>Bonny Eagle 11</td> </tr> <tr> <td>Whiting 13</td> <td>Flagstaff Lake 9</td> <td>East Hiram 13.6</td> </tr> <tr> <td>.....ZONE 005.....</td> <td>Jackman 6</td> <td>Gorham 8.9</td> </tr> <tr> <td>Allagash 1</td> <td>Phillips 13</td> <td>.....ZONE 014.....</td> </tr> <tr> <td>Clayton Lake 2</td> <td>Wyman Dam 6</td> <td>Brunswick 11</td> </tr> <tr> <td>Ripogenus Dam 3</td> <td>.....ZONE 010.....</td> <td>Portland 8.2</td> </tr> <tr> <td>Telos Lake 5</td> <td>Augusta 8</td> <td></td> </tr> <tr> <td>.....Zone 006.....</td> <td>Gulf Island Dam 8</td> <td></td> </tr> <tr> <td>Guilford 6</td> <td>Harmony 5</td> <td></td> </tr> <tr> <td>Medway 5</td> <td>Livermore Falls 7</td> <td></td> </tr> <tr> <td>Millinocket 5.5</td> <td>Skowhegan 8</td> <td></td> </tr> <tr> <td>Moosehead 5.5</td> <td>Waterville 6</td> <td></td> </tr> </table>									ZONE 001.....ZONE 007.....ZONE 011.....	Caribou 0.8	Bangor 5-6	Newcastle 7.1	Fort Kent 2	Milford 7	Rockland 9	Portage 3.5	Springfield 2ZONE 012.....ZONE 002.....	West Enfield 5	Bethel 10	Grand Lake 4ZONE 008.....	Lovell 9	Houlton 4	Ellsworth 7	New Sharon 8ZONE 004.....ZONE 009.....	Rumford 11	Eastport 3.3	Brassua Lake 9.1	West Paris 9	Lubec 13	Comstock Twp. 4.5ZONE 013.....	Machias 10	Eustis 9.8	Bonny Eagle 11	Whiting 13	Flagstaff Lake 9	East Hiram 13.6ZONE 005.....	Jackman 6	Gorham 8.9	Allagash 1	Phillips 13ZONE 014.....	Clayton Lake 2	Wyman Dam 6	Brunswick 11	Ripogenus Dam 3ZONE 010.....	Portland 8.2	Telos Lake 5	Augusta 8	Zone 006.....	Gulf Island Dam 8		Guilford 6	Harmony 5		Medway 5	Livermore Falls 7		Millinocket 5.5	Skowhegan 8		Moosehead 5.5	Waterville 6				
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Worcester County	01	1800-2300EST			0	0	4	0	High Wind																																																																					
60 mph winds caused roof damage to a condominium.																																																																														
MDZ007-008-009 Western Maryland	01	1500-2300EST			0	0	5	0	Heavy Snow																																																																					
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District of Columbia	18	0500-0800EST			0	0	5	0	Ice Storm																																																																					
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This snow on top of that of January 22nd resulted in many additional traffic accidents.																																																																														

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JANUARY 1987

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
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19 MASSACHUSETTS										
MAZ002-003-007-008, East Coastal Area, Newburyport to Chatham	02	1000EST-1500EST								Coastal Flooding
An intense low pressure system moved northeastward passing just to the east of Cape Cod. Strong to gale force northeast winds and unusually high astronomical tides during a "spgyzy" produced the worst coastal flooding in Massachusetts since the Blizzard of 1978. At Boston, the tide level reached 14 feet or two and a half feet above normal. The threshold for major flooding at several key areas prone to coastal flooding is 13.5 feet. About 350 people were evacuated from several coastal towns from Plymouth northward. In Marshfield, where 75 feet of seawall collapsed, seawater 9 feet deep flooded an area of homes, resulting in many thousands-of-dollars damage. Major flooding of coastal roadways resulted in the isolation of several islands and peninsulas including Plum Island, near Newburyport, and Hull near Boston. Damage to immediate coastal homes was heaviest in Hull, Scituate, Marshfield and Duxbury. A few cottages along the northern shore of Cape Cod were also damaged. Dollar damage estimates to residential and business property was at least one million dollars in both Scituate and in Marshfield. Damage to seawalls was most costly in Manchester, Swampscott, Scituate, and Marshfield. At Chatham, the high tide and waves made a "cut" at North Beach. A windshift from northeast to more northerly with diminishing velocity near the time of high tide prevented more serious flooding. Total damage estimates for this storm were in the range of several million dollars.										
MAZ002-003-007-008-009, Eastern Portion	02	Morning				0	0	4	0	High Winds
Strong to gale force northeast winds gusted to 68 MPH at Chatham, 60 MPH at Falmouth, 63 MPH at Scituate, and 60 MPH at Thatcher Island, Cape Ann. Wind gusts of 40 to 55 MPH were common inland from the coast and resulted in scattered power outages. In New Bedford, power was knocked out to 4,000 electric customers and a tree reportedly fell on a house.										
MAZ001-004-005-006-007, Central and Western Portion, & Middlesex County	02	All day				0	0	0	0	Heavy Snow
Heavy snow amounted to 12 to 20 inches in Franklin and northern Worcester County, and 6 to 12 inches elsewhere including Middlesex County, resulting in very poor road conditions.										
MAZ001-002-004-005-006-007-008-009, Statewide, except Cape Cod & Islands	22	Afternoon & Evening				0	0	0	0	Heavy Snow
Heavy snow began falling during the early afternoon and many employers released workers at mid-afternoon. The combination of heavy snow, poor road conditions and the sudden heavy volume of traffic resulted in massive traffic tie-ups. This gridlock of cars occurred in many urban streets and along the major commuter routes. A normal twenty-minute trip took hours. In Springfield, students who were dismissed from school at mid-afternoon did not arrive home until mid-evening after being stalled on buses which were caught in the traffic jam. In the Worcester and the Boston area, many motorists abandoned their cars after being stalled for hours. The National Weather Service issued a blizzard warning at 4 PM for much of the state. Snow accumulated at a rate of 1 to 2 inches per hour before mixing with and then changing to rain in the eastern half of the state during the evening. Significant urban street flooding resulted in many areas after the changeover to rain. Snowfall amounts for this storm ranged from a foot and more in central and western Massachusetts to 6 to 8 inches in the western suburbs of Boston. Amounts of 6 inches fell in northern Plymouth and Bristol counties and 9 inches in the Lowell area.										
MAZ003-009, South Coastal Areas	23	Early morning				0	0	5	0	Coastal Flooding
Gale force, south and southwest winds to the east and southeast of an unusually intense storm center which passed north-northeastward through central Massachusetts caused a moderate amount of tidal flooding along the south-facing coasts. A number of residents in flood-prone areas left their homes at scattered locations from Hyannis to Falmouth, around Buzzards Bay, in Mattapoisett, and along the Taunton River in Dighton and Somerset. The most serious flooding occurred at Onset on Buzzards Bay where some autos were submerged and piers were damaged. The hurricane barrier at the entrance to New Bedford Harbor was closed several hours before the 2 AM high tide and prevented thousands-of-dollars damage from flooding at New Bedford.										
MAZ001-002-003-007-008-009, Eastern Portions of State	23	Early morning				0	0	4	0	High Winds
Gale force, south and southwest winds gusted to 76 MPH at Chatham and 73 MPH at Blue Hill, Milton. Record low barometric pressure readings for January were set: 28.62 in. at Worcester, 28.61 in. at Boston and 28.60 in. at Blue Hill. A scaffolding blew down on a hotel under construction at New Bedford.										
MAZ003, Cape Cod & the Islands	26	All day				0	0	0	0	Heavy Snow/ Blizzard
The Cape Cod blizzard produced 14 to 18 inches of snow and 4 to 8 foot drifts due to gale force winds which gusted up to 65 MPH at Chatham. Visibility during the storm was near zero, creating a blizzard and causing a number of motorists to become stranded on the highways. The powdery texture of the snow prevented any significant damage to power lines and there were few power problems other than a few scattered outages. Many businesses and schools were closed for two days including the day of the storm. The low pressure system which brought this blizzard passed 150 miles to the southeast of the Cape.										

MASSACHUSETTS										
MAZ002-009, Southeast Portion of the State	26	all day								Heavy Snow
Heavy snow amounted to 6 to 12 inches over the southern portion of Plymouth and Bristol counties. Gusty northeast to north winds resulted in considerable blowing and drifting snow, and poor road conditions.										
MAZ001-004-005-006, Northern Middlesex County, and Worcester, Franklin, Hampshire, Hampden, and Berkshire Counties	30-31	evening all day				0	0	0	0	Heavy Snow
Another storm with heavy snow for central and western Massachusetts brought from 6 to 9 inches of snowfall, boosting totals to record or near-record levels for January. Monthly totals of 40 to 55 inches were common in this area. Worcester, with a monthly total of 46.8 inches, set a maximum snowfall record for any month. Other totals for the month include: 45 inches at Cummington Hill, 47.1 inches at Milford, 49 inches at Winchendon, and 45.8 inches at Dunstable. The highest totals were reported to be 62 inches at Gardiner and 60 inches at Holden.										
20 MICHIGAN ————— NONE REPORTED										
21 MINNESOTA ————— NONE REPORTED										
22 MISSISSIPPI										
Smith County, Taylorsville	03	2200CST				0	0	4	0	Thunderstorm Winds
Strong winds from a thunderstorm blew down several trees and downed some power lines. Minor damage occurred at an elementary school. Also, a few outhouses were damaged.										
Lauderdale County, Meridian	18	0600-1800CST				0	0	5	0	Flash Flood
Steady heavy rains fell across all of Mississippi on the 17th and 18th. Rain was heaviest in the east-central portion of the state near Meridian where unofficially 8 to 10 inches of rain fell. The Sosashee Creek, which is known to be flash flood prone, rose 18.2 feet in less than 24 hours. The creek crested at 21.5 feet at around mid day on the 18th. Residences are affected by the creek at a stage of 17 feet. Several residences had to be evacuated, and water got into some homes. A 20-year resident of Meridian reported that the water was higher than he had ever seen and was in places he had never seen it before.										
23 MISSOURI ————— NONE REPORTED										
24 MONTANA ————— NONE REPORTED										
25 NEBRASKA										
NEZ001-005-011-006-007, Panhandle and Central Nebraska	21	1020CST-1600CST				0	0	3	2	High Wind (54)
Strong northwest winds gusted to as high as 62 m.p.h., reducing visibility at times to less than a half mile in blowing dust and causing minor property damage and a few power outages. Some damage to signs and small tree branches was reported. Peak wind gusts to 62 m.p.h. were reported northwest of Harrison at 1020CST, 61 m.p.h. at Broken Bow at 1450 CST, 60 m.p.h. at Scottsbluff at 1036CST and at Mullen at 1550CST, and 59 m.p.h. at Alliance at 1343CST.										
NEZ005-011, Panhandle Nebraska	29	0005CST-0030CST				0	0	4	1	High Wind (50)
Northwest wind gusted to 58 m.p.h. at Sidney and to 55 m.p.h. at Scottsbluff. A home under construction was blown down at Gering and sporadic power outages were reported.										
NEZ012, Central Nebraska	29	0453CST				0	0	3	1	High Wind (53)
Northwest wind gusted briefly to 61 m.p.h. at North Platte. Minor damage was reported.										

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JANUARY 1987

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					KILLED	INJURED	PROPERTY	CROPS	
26 NEVADA									
NVZ003	1	0600-2100 PST			0	0	0	0	High winds
									High winds buffeted extreme Western Nevada during the day with winds of up to 75 mph at the Virginia Foothills. Minor power outages were reported.
NVZ003	1	0600-2100 PST			0	0	0	0	Heavy Snow
									Locally heavy snow fell in the Lake Tahoe area during the day. Around 6 inches of snow fell at Incline with up to a foot in the passes. Roads throughout the Lake Tahoe area were under chain or snowtire requirements.
NVZ003-004	3	0600-1800 PST			0	0	3	0	High winds
									High winds buffeted extreme Western Nevada, gusting to 55 mph at the Reno Airport and 75 mph at the Virginia Foothills. Winds were over 50 mph at Hawthorne. There were numerous power outages and some damage was done to the 84 Lumber store south of Reno.
NVZ002-003	3-4	0400-1200 PST			0	0	0	0	Heavy Snow
									Heavy snow moved into Northern Nevada during the 3rd and the 4th. In the Lake Tahoe area some snow accumulations were 16 inches at Glenbrook and Zopher Cove, 2 feet at Spooners Summit, 25 inches at Incline, 30 inches at Dagget Pass, and over 3 feet at some ski resorts. In Northeast Nevada, 3 inches fell at Battle Mountain and 6 to 8 inches at Owyhee.
NVZ006	4-5	1800-1200 PST			0	0	0	0	Heavy Snow
									Heavy snow fell overnight giving 4 inches to Pioche and 6 inches to Tonopah. This created slick and snow-packed roads with chain or snowtire requirements on area roads.
NVZ003	6	0600 PST			0	0	0	0	Heavy Snow
									Locally heavy snow fell in extreme western Nevada overnight and totaled 3 to 6 inches generally. 3 inches fell at Carson City, 4 inches at Mount Rose and 5 inches at Verdi. The snow caused chain or snowtire requirements on many roads.
NVZ006	6-7	1800-1200 PST			0	0	0	0	Heavy Snow
									Heavy snow fell throughout most of south-central Nevada overnight. 3 to 6 inches fell in the valleys, and a foot over higher elevations. Chains or snowtires were required on many area roads.
NVZ007	7	0600 PST			0	0	2	0	Flooding
									Heavy rains fell in southern Nevada during the day, creating areas of minor street flooding. Most areas of southern Nevada had over a half an inch of rain with Las Vegas receiving two-thirds of an inch.
NVZ002	14	0600 PST			0	0	0	0	Heavy Snow
									Locally heavy snow moved into northeast Nevada with 4 inches falling at Jackpot and 6 inches at Freeport Mine. The snow created slick roads with chain or snowtires required over many area roads.
NVZ001-003	23-24	1800-1200 PST			0	0	0	0	Heavy Snow
									Heavy snow fell overnight and during the morning in northwest Nevada. 4 to 8 inches fell in the Lake Tahoe area, with 3 inches at McDermitt and Winnemucca. The snow created slick roads with many area roads under chain or snowtire requirements.
NVZ003	27	0800 PST			0	0	0	0	High winds
									High winds buffeted extreme Western Nevada and gusted to 63 mph at the Reno Airport and 75 mph in the Virginia Foothills. The winds caused areas of minor power outages.
NVZ003	27-28	1800-1200 PST			0	0	0	0	Heavy Snow
									Heavy snow fell overnight in the Lake Tahoe area. 6 inches fell at Glenbrook with 9 at Incline, 12 inches at Slide Mountain, and 13 inches at Ingerett Pass. The snow caused chain or snowtire requirements across most area roads.

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NVZ007	28	0800 PST			0	0	0	0	High winds																																																																														
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NHZ 001-002-003-004 005-006-007 Statewide	02	0000EST			0	0	6		Nor'easter																																																																														
									A low pressure area formed off the South Carolina coast early Thursday afternoon, and intensified as it moved northeast paralleling the Atlantic seaboard. By 0700EST Friday, it had developed into a full-blown "Nor'easter" located about 150 miles south of Providence, RI. The storm slowed down but continued to intensify, and by 0700EST Saturday, it was some 90 miles due east of Portland, ME. The storm then accelerated and arrived over Newfoundland Island Sunday morning. Tides were unusually high due to celestial alignment, but were also enhanced by the strong winds in this storm. Every coastal community (Rockingham County) closed their shore roads around the time of high tide, when ice-choked water not only flooded streets, but basements of homes in low-lying areas. The towns of Hampton and New Castle appeared to have the most trouble with flooded streets. At Hampton, the tide peaked at 1234EST Friday some 2 to 3 feet above normal, and police closed several miles of Route 1A from Hampton to Little Boars Head. The Hampton Police Station was surrounded by knee deep water at high tide. A small section of a seawall collapsed in Rye, with little flooding occurring there. Generally, town officials agreed that the coastal flooding caused only minor property damage and beach erosion. However, the rough surf, waves in the 10 to 20 foot range, generated too many tourists, which in turn hindered the removal of ice chunks, large rocks and ocean debris from the shore roads. The automated Coast Guard Station on the Isles of Shoals reported peak gusts of 54 mph (47 knots), and Pease Air Force Base in Portsmouth had a peak gust of 37 mph (32 knots). Atop Mt. Washington (elevation 6,288 ft.), the peak wind was 113 mph (98 knots) and the average wind speed for the 2nd was 53 mph (46 knots). Very light snow began to fall over southern sections between 2300 and 2400EST on the 1st and spread into the far north by sunrise. Over southern sections, the snow mixed with sleet and/or freezing rain, which caused a dense layer of packed snow to form on roadways, making for very poor travel conditions, and later on, difficult snow removal. Peak snow intensities reported were 6 inches in 4 hours (1200 to 1600EST) at Portsmouth; 5 inches in 3 1/2 hours (1130 to 1500EST) at Concord; and 5 inches in 5 hours (1900 to 2400 EST) at Lebanon. There were many auto accidents, abandoned vehicles, and skidding mishaps which left hundreds of vehicles stuck well off roadways statewide. Because of advanced warning of this storm, traffic was considered light, and it moved very slowly, which accounts for no deaths or serious injuries. Shopping malls, smaller businesses, schools, and many state and local government agencies closed early, or never opened Friday. Snow removal was a sore spot for many communities, as it took several days for travel to approach normalcy. Snow removal costs ranged from about \$8,000 in the small towns to around \$40,000 in the cities. The ski areas set record attendances for the Christmas week, which accounts for 20 to 30 percent of an area's annual business. In fact, all of the state's ski areas were filled to capacity on Saturday the 3rd. Only the extreme northern tip of the state had less than 6 inches of snow. Elsewhere, snow depths from this storm ranged from 7 inches in the west and north, up to 24 inches in the southeast. Following is a list of heavy snowfall amounts in inches and by zones:																																																																														
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<p>A low pressure area over southern Michigan, early Saturday morning, had an occluded front that extended into the extreme western Carolinas. The low moved slowly east, while the front raced northeast. A new low formed off the New Jersey coast late Saturday night, and intensified rapidly as it moved northeast just off the New Hampshire and Maine coasts Sunday, arriving over Cape Breton early Monday morning. Light snow began to fall early Saturday morning, picked up in intensity late Saturday, and finally ended in northern sections late Sunday night. Most of the state reported at least 30 hours of continuous snow or precipitation. Snowfall amounts varied from 5 to 16 inches across the state. Only the extreme southwest and southeast corners of the state reported less than 6 inches. Coastal sections had a mix of snow, sleet, rain and freezing rain, which produced minor-but-widespread power outages in the Rockingham County communities of Greenland, Rye, Newington, and Portsmouth from a half hour to 2 hours. Stratham had 300 to 400 customers without power from 1 to 10 hours. However, Exeter appeared hardest hit with ice buildup tearing down tree limbs through powerlines, and shorting out transformers that affected 2,500 customers for 1 to 12 hours. In Hillsborough County, Goffstown reported a tree limb took down a powerline to 60 customers at 1715EST Sunday on Mt. Uncanoonuc, which took radio station WZLD and television station WMUR off the air until 2011EST. Also, Manchester and surrounding communities had about 800 residents without power Sunday afternoon. Police, statewide, reported cars slid off roads in steady numbers throughout the weekend, and there were numerous fender-benders and auto accidents. There was one death that occurred in Farmington (Strafford County) around 1955EST on the 11th. A 44-year-old man lost control of his car on Old Bay Road and struck a tree. Slippery road conditions contributed to the accident. There was one serious injury in Belmont (Belknap County) to a 39-year-old male driver involved in a head-on collision on Route 140 at 1025EST on the 11th. Several multiple-car pileups were reported. Many occurred near crests of hills at low speed and took a few minutes to complete. New Hampton (Belknap County) had a 10-car pileup on Route 104 at 1656EST, the 10th, and Nashua (Hillsborough County) had a 7-car pileup Saturday afternoon. In Bow (Merrimack County), an Army gasoline truck rolled onto a guardrail on I-93 Sunday afternoon. A bus carrying the Fitchburg State College men's and women's basketball team skidded into a guardrail while trying to avoid the Army vehicle. There were no injuries, but traffic was stopped in both directions off and on for several hours to remove the wreckage. In Jaffery (Cheshire County), two Massachusetts men in their mid-20s suffered frost-bitten feet after spending Saturday night on Mount Monadnock (elev. 3,165 ft.). A party of eight began the climb around noon Saturday and reached the summit about 1600EST. It was snowing heavily and winds were blowing at 50 mph at the summit, forcing six of the party to return immediately. The two that remained had no backpacks, and only lightweight jackets to repel the 20-degrees-below-zero wind chill temperatures. They lost the trail on their way down. A search party was sent out at 2000EST, but had to stop at 0300EST due to high winds and poor visibility. The search resumed at 0700EST Sunday and the hikers were found at 0715EST. Despite poor weekend travel conditions, ski areas reported sellouts. 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NHZ 006 Southern Interior	15 0400EST				1	1	4			Black Ice																																																																														
<p>Light rain and drizzle turned to black ice on some roadways due to the cold surfaces, causing many minor accidents during the commuter hours. One injury occurred in Rochester (Strafford County) on Estes Road when two cars tried to avoid each other on the icy road and ended up in snowbanks. A woman driver of one of the cars got out of her vehicle and was struck by another car that could not stop. She was hospitalized.</p>																																																																																								
NEW HAMPSHIRE																																																																																								
NHZ 006-007 Southeast.	18 1100EST				0	0	5			Snow and Freezing Rain																																																																														
<p>A weak low pressure area between Lake Huron and Lake Erie at 0700EST Sunday, moved east-southeast. This produced light snow over the state late Sunday morning through late Sunday night. Snow amounts were 2 to 4 inches statewide. However, freezing rain over the southeast portion caused extremely slippery road conditions for near-record crowds of weekend skiers returning south in the afternoon. There were numerous accidents, mostly involving minor damage and cars skidding off roads. There were no serious injuries. At 1600EST, I-89 was closed due to a 15 to 25 car chain reaction smash-up near Concord (Merrimack County).</p>																																																																																								
NHZ 002-003-004-005-006 Central and Southern	19- 1900EST	20			0	0	4			Heavy Snow																																																																														
<p>A low pressure area over southern Indiana Sunday morning, redeveloped off the Delmarva Peninsula. It intensified as it moved rapidly northeast arriving well south of Cape Breton Tuesday morning. Snow was confined to the central and southern sections of the state, where most of that region had 2 to 5 inches of light fluffy snow. However, there was a very narrow band of heavy snow that fell over higher elevations and the extreme southeast corner along the Massachusetts border. There were the usual number of fender-benders and cars sliding off roads, with no deaths or serious injuries reported. Following is a list of heavy snowfall amounts in inches and by zones:</p> <table style="width: 100%; border: none;"> <tr> <td>.....ZONE 002.....</td> <td>.....ZONE 004.....</td> <td>.....ZONE 005.....</td> </tr> <tr> <td>Campton 6</td> <td>Bristol 9</td> <td>Hillsboro 7</td> </tr> <tr> <td>West Rumney 5.5</td> <td>Gilford 6</td> <td>Keene 6.5</td> </tr> <tr> <td>.....ZONE 003.....</td> <td></td> <td>Surry Mt. Lake 6</td> </tr> <tr> <td>Bradford 6</td> <td></td> <td>.....ZONE 006.....</td> </tr> <tr> <td></td> <td></td> <td>Hopkinton Lake 7</td> </tr> <tr> <td></td> <td></td> <td>Salem 6</td> </tr> </table>										ZONE 002.....ZONE 004.....ZONE 005.....	Campton 6	Bristol 9	Hillsboro 7	West Rumney 5.5	Gilford 6	Keene 6.5ZONE 003.....		Surry Mt. Lake 6	Bradford 6	ZONE 006.....			Hopkinton Lake 7			Salem 6																																																									
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NHZ 001-002-003-004-005-006-007 Entire State	22- 1300EST	23			0	0	6			Nor'easter																																																																														
<p>A low pressure area formed in the northeastern Gulf of Mexico Wednesday night and moved across northern Florida into the Atlantic Thursday morning. The low moved along the Eastern Seaboard and intensified into a major winter storm. On Thursday night it was located off the Virginia coast, and it moved rapidly northeast across Cape Cod and then north into central Maine by 0700EST Friday. It continued north, arriving over the Ungava Peninsula in Quebec Province Saturday morning. This brought heavy snow and strong winds to all of New Hampshire. There were actually fewer auto accidents and cars sliding off roads due to the advanced warnings, and many businesses and industries closed early Thursday and remained closed or delayed openings Friday, allowing employees to leave early or remain at home. There were no injuries or deaths reported. Sleet and freezing rain mixed with the snow over southeast portions, holding snow amounts down along the coast. Wind gusts of 30 to 35 mph were common statewide, and caused trees and limbs to fall onto and through powerlines. About 6,000 to 7,000 customers were affected statewide, with the hardest hit area being Rockingham County. Portsmouth reported 2,000 residents without power for 3 hours. A large portion of Seabrook and Seabrook Beach were affected for 2 1/2 hours. Also, Rye, North Hampton, and New Castle reported downed lines. Most schools in the state were closed or had delayed openings Friday, and they cancelled all athletic events Friday night. This being the third big storm of the month, caused heavy snow loads on roofs. A summer home on Route 132 in Sanbornton (Belknap County) was heavily damaged when it collapsed Friday. A vacant warehouse's steel roof collapsed at 0630EST Friday in Newfields (Rockingham County). In Warner (Merrimack County), the roof of the Warner Dance Hall collapsed under 2 feet of snow between 2200EST and 0200EST, extensively damaging the hall that was built in 1929. No deaths or injuries occurred. Following is a list of heavy snowfall amounts in inches and by zones:</p> <table style="width: 100%; border: none;"> <tr> <td>.....ZONE 001.....</td> <td>.....ZONE 004.....</td> <td>.....ZONE 006.....</td> </tr> <tr> <td>Berlin 12</td> <td>Barnstead 10</td> <td>Concord 11.9</td> </tr> <tr> <td>Diamond Pond 8</td> <td>Blackwater Dam 10</td> <td>Dover 14</td> </tr> <tr> <td>Dalton 6</td> <td>Franklin Falls 10</td> <td>Durham 10</td> </tr> <tr> <td>Dixville 7</td> <td>Gilford 15</td> <td>East Derry 11</td> </tr> <tr> <td>1st CT Lake 7</td> <td>Laconia 14</td> <td>Franchestown 12</td> </tr> <tr> <td>Lancaster 6</td> <td>Lakeport 10</td> <td>Greenville 8</td> </tr> <tr> <td>Pittsburg 6</td> <td>Meridith 12</td> <td>Hooksett 14</td> </tr> <tr> <td>Stark 6</td> <td>Mountnboro 12</td> <td>Hopkinton Lake 8.5</td> </tr> <tr> <td>No. Stratford 9</td> <td>No. Conway 9-12</td> <td>Mont Vernon 9</td> </tr> <tr> <td>.....ZONE 002.....</td> <td>Ossipee 12</td> <td>Nashua 8</td> </tr> <tr> <td>Bethlehem 8</td> <td>Sandwich 10</td> <td>Rochester 13</td> </tr> <tr> <td>Cornford Dam 9</td> <td>Tamworth 9.7</td> <td>Temple 12</td> </tr> <tr> <td>Franconia 8</td> <td>.....ZONE 005.....</td> <td>.....ZONE 007.....</td> </tr> <tr> <td>Gorham 16</td> <td>Hancock 10</td> <td>Hampton 14</td> </tr> <tr> <td>Mt. Washington 10.4</td> <td>Hillsboro 11</td> <td>Portsmouth 6-8</td> </tr> <tr> <td>Piermont 11</td> <td>Keene 8-10</td> <td></td> </tr> <tr> <td>West Rumney 12</td> <td>MacDowell Dam 9</td> <td></td> </tr> <tr> <td>.....ZONE 003.....</td> <td>Marlborough 10</td> <td></td> </tr> <tr> <td>Bradford 12</td> <td>Surry Mt. Dam 9</td> <td></td> </tr> <tr> <td>Claremont 12</td> <td>Swanzy 9</td> <td></td> </tr> <tr> <td>Enfield 15</td> <td>Otter Brook 11</td> <td></td> </tr> <tr> <td>Hanover 15</td> <td>Walpole 10</td> <td></td> </tr> <tr> <td>New London 14</td> <td></td> <td></td> </tr> <tr> <td>Plymouth 13</td> <td></td> <td></td> </tr> <tr> <td>Washington 12</td> <td></td> <td></td> </tr> </table>										ZONE 001.....ZONE 004.....ZONE 006.....	Berlin 12	Barnstead 10	Concord 11.9	Diamond Pond 8	Blackwater Dam 10	Dover 14	Dalton 6	Franklin Falls 10	Durham 10	Dixville 7	Gilford 15	East Derry 11	1st CT Lake 7	Laconia 14	Franchestown 12	Lancaster 6	Lakeport 10	Greenville 8	Pittsburg 6	Meridith 12	Hooksett 14	Stark 6	Mountnboro 12	Hopkinton Lake 8.5	No. Stratford 9	No. Conway 9-12	Mont Vernon 9ZONE 002.....	Ossipee 12	Nashua 8	Bethlehem 8	Sandwich 10	Rochester 13	Cornford Dam 9	Tamworth 9.7	Temple 12	Franconia 8ZONE 005.....ZONE 007.....	Gorham 16	Hancock 10	Hampton 14	Mt. Washington 10.4	Hillsboro 11	Portsmouth 6-8	Piermont 11	Keene 8-10		West Rumney 12	MacDowell Dam 9	ZONE 003.....	Marlborough 10		Bradford 12	Surry Mt. Dam 9		Claremont 12	Swanzy 9		Enfield 15	Otter Brook 11		Hanover 15	Walpole 10		New London 14			Plymouth 13			Washington 12		
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STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1987

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	

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NEW HAMPSHIRE

NHZ 001-002-003-004-005-006-007 Entire State	30- 1200EST 31 1200EST		0	1	6	Nor'easter																																																												
<p>A low pressure area was located over southern Lake Huron Friday morning with a weak stationary front extending east-southeast to just off the Rhode Island coast. This system redeveloped off the New Jersey coast late Friday night, intensified as it moved east, and was located about 100 miles east of Cape Cod by 0700EST Saturday. It continued to intensify as it moved northeast, and arrived near Sable Island around 0700EST Sunday. The extreme northwest corner of New Hampshire and a very narrow band along the Connecticut River Valley reported 1 to 5 inches of snow. The rest of the state recorded heavy snows of 6 to 12 inches. The snow began over southwest New Hampshire around 1200EST Friday and spread slowly north and east. Most locales reported continuous snow lasting about 22 hours. Countless fender-benders, rollovers and cars skidding off roads were reported, with most of the accidents occurring between 1500EST and 1800EST Friday, as the snow and cold pavement made road surfaces extremely slippery. There were no deaths reported, but there was one serious injury. A 23-year-old Nashua (Hillsborough County) police officer was seriously hurt when pinned between his cruiser and a skidding car while attending to another accident on the F.E. Everett Turnpike at 1530EST Friday. There were several minor power outages statewide due to the storm, the worst being in Durham (Stafford County) where a snow-laden tree limb took down a main power line, affecting 1,100 residences for about 45 minutes late Friday. For most of the state, this was the 5th snowstorm of 6 inches or more during January 1987, producing heavy snow loads that collapsed roofs. In Hillsboro (Hillsborough County), the 3-year-old town highway garage gave loud moans and crackles before collapsing, allowing some of the town's crew to remove most of the equipment and themselves without injury or damage. Buried in the rubble of the \$190,000 structure were a score of tools, a fire tank truck, a sidewalk plow, and a Jeep. In Derry (Rockingham County), the entire mid-section of the roof of the mammoth apple-packing house at Woodmont Orchards collapsed at 0930EST Saturday. All employees escaped without injury. On Saturday, a Derry resident reported his porch roof collapsed, and another had his garage collapse destroying his snowblower during Saturday. In Londonderry (Rockingham County), a carport at the Rolling Meadows Condominiums gave way under a heavy snow load Saturday morning, damaging 5 parked cars. Following is a list of snowfall amounts in inches and by zones:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td>.....ZONE 001.....</td> <td>.....ZONE 004.....</td> <td>.....ZONE 006.....</td> </tr> <tr> <td>Berlin 8</td> <td>Barnstead 8</td> <td>Concord 7.1</td> </tr> <tr> <td>Dalton 3</td> <td>Blackwater Dam 7</td> <td>Durham 9</td> </tr> <tr> <td>Diamond Pond 3</td> <td>Bristol 7</td> <td>East Derry 10</td> </tr> <tr> <td>Dixville 4</td> <td>Canterbury 8</td> <td>Francestown 9</td> </tr> <tr> <td>1st CT Lake 2.5</td> <td>Franklin Falls 7</td> <td>Greenland 8</td> </tr> <tr> <td>Lancaster 1.5</td> <td>Gifford 7</td> <td>Greenville 9</td> </tr> <tr> <td>Pittsburg 2</td> <td>Laconia 7</td> <td>Hooksett 10</td> </tr> <tr> <td>No. Stratford 1</td> <td>No. Conway 6.6</td> <td>Hopkinton Lake 7</td> </tr> <tr> <td>.....ZONE 002.....</td> <td>Sanbornton 7</td> <td>Merrimack 9.5-12</td> </tr> <tr> <td>Benton 3</td> <td>Tamworth 6</td> <td>Milford 9.4</td> </tr> <tr> <td>Cornford Dam 5</td> <td>.....ZONE 005.....</td> <td>Mont Vernon 8.3</td> </tr> <tr> <td>Mt. Washington 7.4</td> <td>Keene 6.5</td> <td>Nashua 7</td> </tr> <tr> <td>West Rumney 12</td> <td>MacDowell Dam 9</td> <td>Rochester 10</td> </tr> <tr> <td>.....ZONE 003.....</td> <td>Marlow 8</td> <td>Salem 10</td> </tr> <tr> <td>Bradford 10</td> <td>Surry Mt. Dam 8</td> <td>Temple 9.5</td> </tr> <tr> <td>Enfield 10</td> <td>Swanzy 8</td> <td>.....ZONE 007.....</td> </tr> <tr> <td>Lebanon 4.8</td> <td>Otter Brook 6</td> <td>Portsmouth 8</td> </tr> <tr> <td>Springfield 8</td> <td>Walpole 7</td> <td></td> </tr> <tr> <td>Sutton 10</td> <td></td> <td></td> </tr> </table>						ZONE 001.....ZONE 004.....ZONE 006.....	Berlin 8	Barnstead 8	Concord 7.1	Dalton 3	Blackwater Dam 7	Durham 9	Diamond Pond 3	Bristol 7	East Derry 10	Dixville 4	Canterbury 8	Francestown 9	1st CT Lake 2.5	Franklin Falls 7	Greenland 8	Lancaster 1.5	Gifford 7	Greenville 9	Pittsburg 2	Laconia 7	Hooksett 10	No. Stratford 1	No. Conway 6.6	Hopkinton Lake 7ZONE 002.....	Sanbornton 7	Merrimack 9.5-12	Benton 3	Tamworth 6	Milford 9.4	Cornford Dam 5ZONE 005.....	Mont Vernon 8.3	Mt. Washington 7.4	Keene 6.5	Nashua 7	West Rumney 12	MacDowell Dam 9	Rochester 10ZONE 003.....	Marlow 8	Salem 10	Bradford 10	Surry Mt. Dam 8	Temple 9.5	Enfield 10	Swanzy 8ZONE 007.....	Lebanon 4.8	Otter Brook 6	Portsmouth 8	Springfield 8	Walpole 7		Sutton 10		
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28 NEW JERSEY, Northern

NJZ001 Northwest New Jersey	01- 1500EST 02 1000EST		0	0	0	0	Heavy Snow
Snow accumulated to 6-8 inches over sections of northwestern New Jersey. Traveling was quite hazardous with many minor accidents reported.							
NJZ001 Northwest New Jersey	19 Afternoon -Evening		0	0	0	0	Heavy Snow
Snow accumulated to 6-8 inches over sections of northwestern New Jersey. Traveling was quite hazardous with many minor accidents reported.							
NJZ001-005-007 and NYZ015 Northern New Jersey	22 Afternoon -Evening		0	0	0	0	Heavy Snow
A major winter storm dumped 8-16 inches of snow across northern New Jersey. Airports, businesses and schools were closed. Traveling was quite hazardous and in some cases impossible. Many cars were abandoned after becoming disabled in the snow. Numerous accidents were reported.							
NJZ005-007 Northern Coastal New Jersey	26 Morning		0	0	0	0	Heavy Snow
The second major winter storm in less than a week dumped 6-8 inches of snow across coastal sections of northern New Jersey. Traveling was hazardous and there were many minor accidents.							

28 NEW JERSEY, Southern

NJZ003 Coastal Areas	02 0600EST		0	0	6	0	Tidal Flooding
A storm moving up the East Coast combined with high tides caused by syzygy, a rare alignment of the sun, moon and earth, to cause coastal and bay flooding. At around the time of high tide, water levels reached around 7 feet above mean low water on the ocean front and around 8.5 feet above mean low water in the bays. Many roadways and other properties were flooded. High waves along with the high water level damaged boardwalks and caused considerable beach erosion.							
NJZ002-003-004-006 Southern New Jersey	22 0900EST- 1900EST		0	0	2	0	Heavy Snow
Snow began falling over southern New Jersey at 8 to 9 AM and became heavy later in the morning. The snow became mixed with sleet and rain or freezing rain in the afternoon and changed to all rain in eastern portions of the region by late afternoon. Snow accumulations reached 3 to 8 inches over the southern coastal zone, 3 to 7 inches over the coastal Delaware Bay zone, 4 to 8 inches over the southern interior zone, and 10 to 12 inches over the metropolitan Delaware Valley zone.							
Snow-covered roads and restricted visibility in blowing and drifting snow caused extremely hazardous traveling conditions. The result was numerous automobile accidents and many stranded vehicles.							
NJZ002-003-004-006 Southern New Jersey	25- 2100EST- 26 1200EST		0	0	2	0	Heavy Snow
Snow began falling significantly at around 9 PM on the 25th, became heavy at around midnight, and finally lightened up late in the morning of the 26th. Accumulations of snow reached 6 to 10 inches over the metropolitan Delaware Valley zone, 10 to 18 inches over the southern coastal zone and coastal Delaware Bay zone, and 10 to 20 inches over the southern interior zone.							
Strong wind gusts resulted in considerable blowing and drifting of the snow. Drifts reached a height of 3 feet or more, especially in the Cape May area. Snow-covered roads along with blowing and drifting snow resulted in many automobile accidents and stranded vehicles.							

29 NEW MEXICO

Statewide	15-18		4	?	6	4	Winter Storm
A vicious winter storm buried most of New Mexico under as much as 4 feet of snow and required activation of the National Guard in 3 counties. Four counties (Torrance, Mora, Hidalgo, and San Miguel) were declared disaster areas. Travelers were stranded and Albuquerque was brought to a standstill in blizzard conditions on January 16.							
An 8-year-old girl was killed by carbon monoxide poisoning when her family's truck was stranded on Interstate 40 in McKinley County. A 52-year-old man was found along a road after he had left his stranded truck in Torrance County. A man, 22, was crushed to death in Albuquerque (Bernalillo County) when high winds pushed over a brick wall on which he was working. A 57-year-old man was killed in a nine-vehicle, chain-reaction crash on Interstate 40 just west of Grants (Valencia County).							
F08V,M52V,M220,M57V							

30 NEW YORK, Coastal

NYZ014 Rockland County	01- 1500EST 02 1000EST		0	0	0	0	Heavy Snow
Snow accumulated to 5-7 inches over western sections of Rockland County. Traveling was hazardous with numerous minor accidents.							
Nassau and Suffolk Counties	02 Morning		0	0	?	0	Coastal Flood
A strong storm moving northeastward along the coast dumped a couple of inches of rain in Nassau and Suffolk Counties. Storm tides combined with rare astronomically high tides and caused extensive coastal flooding. In Westhampton Beach on Long Island, one house was destroyed and three others severely damaged. Coastal flooding was mainly confined to the south shore towns of Baldwin Harbor, Long Beach, Freeport, Babylon, Fire Island, Tobay Beach and the Hamptons. Severe beach erosion and partial dune loss occurred along the south shore of eastern Long Island.							
NYZ014 Rockland County	19 Afternoon -Evening		0	0	0	0	Heavy Snow
Snow accumulated to 5-7 inches over sections of Rockland County. Traveling was hazardous with many minor accidents being reported.							

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1987

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	
NEW YORK, Coastal									
NYZ014-015-016-017 Extreme Southeastern New York and Long Island	22	Afternoon -Evening			0	0	0	0	Heavy Snow
					A major winter storm dumped 8-12 inches of snow across extreme southeastern New York and Long Island. Airports were closed for extensive periods. Traveling was extremely hazardous and in some cases impossible. A strike by the Long Island Railroad contributed to traveling difficulties. Many businesses and some schools were closed.				
NYZ015-016-017 Metropolitan New York and Long Island	26	Morning			0	0	0	0	Heavy Snow
					The second major winter storm in less than a week dumped 6-9 inches of snow along coastal sections of southeastern New York. The storm snarled traffic, complicated life for commuters of the strikebound Long Island Railroad, and brought other activities to a standstill as some schools, courts and businesses were closed. Some delays were reported at the major airports. Traveling was hazardous and there were numerous minor accidents.				
30 NEW YORK, Central									
Areawide	02	0930EST			6	12	4	0	Snow
					Two persons were killed in a snowmobile accident during a heavy snowfall. A second accident occurred in Delaware County which claimed the life of a tractor-trailer driver. Several other traffic accidents claimed additional lives. Heaviest snowfall was in a band from Binghamton to Glens Falls; snowfall in this band totaled 10-15 inches. Wet snow pulled down power lines in Ulster and Dutchess Counties, forcing the evacuation of local mental health facilities. Over 9,000 homes were without power in the lower Hudson Valley.				
					M-19 months - V M-05-V M-34-V (snowmobile accident) F-28-V M-36-V M-66-V				
Areawide	10	0800EST			5	24	6	0	Snow
					Two storm systems produced heavy snow in eastern New York. Snowfall of almost 20 inches was reported in central Saratoga County. The heavy wet snow was blamed for a Boston and Maine Railroad derailment in southern Saratoga County. Scattered power outages were also reported throughout eastern New York. The storm was blamed for two fatal heart attacks and three fatal car accidents. High winds during and after the storm resulted in white-outs and blowing/drifted snow, with drifts of near ten feet reported in the hill towns of Albany County.				
					F-UNK-O (Heart Attack) M-UNK-O " " M-UNK-V " " F-18-V M-40-V				
Otsego County	10	2300EST			*	0	4	0	Snow
					An 18-year-old youth remains lost near Oneonta. The youth ventured out during a severe winter storm to purchase food. No additional details are available.				
					*Possibly one youth, status unknown: M-18				
Areawide	18	1400EST			3	52	6	0	Snow
					Light freezing rain and snow fell across most of eastern New York. Heaviest accumulations were in the Capital District area of eastern New York. Road conditions rapidly deteriorated. A seven car pile-up was reported in Onieda County and claimed one life. Meanwhile, on Interstate 87 near Clifton Park, southern Saratoga County, a 34 vehicle accident occurred. Twenty-three persons were injured and Interstate 87 was shut down for four hours. Other weather-related car accidents accounted for two additional deaths.				
					F-92-V F-54-V M-55-V				
NEW YORK, Central									
Ulster County	18	2130EST			*	0	6	0	Snow
					An Ulster County youth became lost in the town of Cragmoor on Sunday evening, after his truck became stuck in a snow drift. Searchers have been battling poor weather for several days. High winds and blowing snow have created drifts of up to 10-15 feet.				
					*At this time the status of the youth is unknown. Possibly one youth, age 19. M-19				
Areawide	19	1600EST			0	4	6	0	Snow
					Snow fell once again over eastern New York, this time falling at the rate of two inches per hour for approximately two hours. Snowfall totals for eastern New York were in the three to seven inch range.				
Areawide	22	1100EST			5	37	7	0	Snow
					A classic nor'easter rocked eastern New York with over one foot of snow. Heaviest snow was reported in the Saratoga-Warren-Washington county area. Snow accumulation was in excess of 20 inches in this area. Accompanying this storm were strong gusty winds. Blowing and drifting snow was the main problem the following day. One fire, in Rome, NY, resulted in the deaths of two young boys. The cause of the fire was listed as an electrical short. Contributions to this short were high winds and possibly snow and water shorting out the electrical service entrance. The local fire department was also hampered in its response by poor road conditions due to the heavy snow and blowing snow. In fact, many local governments imposed a state-of-emergency. Local utilities and other community services were also adversely affected.				
					M-UNK-O (Heart Attack) M-UNK-O " " M-8-O (Fire) M-5-O " " M-78-O (Heart Attack)				
30 NEW YORK, Western									
RYZ001-002-003-004-005-021-022 & Central New York	02	Evening			0	0	5	0	Snow
					From 5 to 14 inches of snow fell. Driving was treacherous. Many accidents were reported. Ithaca, Tompkins County received the most snow (14 inches). Locke, Cayuga County got 11 inches. Many portions of the central Southern Tier received 7 to 12 inches. Many roads were closed in Yates County.				
NYZ001-002-003-004-005-021-022 & Central New York	19	Afternoon			0	0	4	0	Snow
					A slowdown of transportation resulted when 3 to 7 inches of snow fell. Flights to and from the Buffalo Airport were either cancelled or diverted. The Monroe County Airport at Rochester was not much different. North Tonawanda in southern Niagara County received 7 inches while Amherst, Erie County received 6 inches.				
NYZ001-002-003-004-005-021-022 Many portions of Western & Central N.Y.	22	Evening			0	0	4	0	Snow & Wind
					A snowstorm dumped up to 10 inches of snow. Ithaca received 10 inches, Chemung 9 inches, Elmira 8 inches, Sherman 8 inches, Sinclairville 6 inches, Whitesville 5 inches, and Colden 4 inches. Strong winds produced whiteouts. Many roads particularly in Lewis County had to be closed.				
NYZ004 Parts of Lewis, Jefferson, & Oswego Counties	25	Morning			0	0	5	0	Snow
					About 34 inches of snow fell in Barnes Corners, Lewis County. Interstate 81 from Mexico (Oswego County) to Watertown (Jefferson County) had to be closed for 19 hours.				
					Poor driving conditions caused many vehicular accidents.				

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1987

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									
NCZ001-016-017 Coastal North Carolina	01	All Day			0	0	7	0	Coastal Storm
	An intense winter storm moved up the East Coast and, combined with a period of unusually high tides, produced considerable damage along the southeast coast. Winds gusted to over 50 mph in some locations, tremendous beach erosion occurred, and the high tides produced damage to homes and businesses. Dollar damage in North Carolina was placed at \$6.9 million, and would have been much higher had a similar storm not occurred in December.								
NCZ006-007-008-009-011-012-013 Western NC	01	0200 EST			0	0	?	?	Heavy Snow
	The same storm produced heavy snow in the mountains, foothills, and a small part of the piedmont. Snow amounts ranged from 4 inches in many locations to 10 inches in Cleveland County.								
Dare County	10	1245 EST			0	0	3	0	TSTM Winds
	A downburst estimated at 70 mph was reported just north of Hatteras Village. Heavy rain fell, but oddly no thunder was actually heard. Some wooden doors were blown off, fence blown down, and a dumpster was blown into a car. Some glass was also broken by the wind.								
NCZ004-010-012-017 Coastal Area and Mountains	19	1000-1930 EST			0	0	4	0	High Winds
	High winds in the mountains blew down some trees and power lines, and caused some damage to houses, garages, and businesses. In Hyde County, in the east, gusts as high as 50 knots blew shingles off a roof, and blew a window out.								
NCZ005-006-007-008-009-010-011-012-013 Central and Western North Carolina	21-22	Both Days			0	0	5	0	Heavy Snow
	A major winter storm caused snow to pile up in amounts not seen for a great many years in parts of the state. In the foothills and parts of the piedmont, some residents described the storm as the worst in about 50 years, and records in at least some locations seemed to bear that out. Snowfall amounts of 6 to 8 inches were common, and in the hardest hit areas, 16 to 20 inches fell. The area of heaviest snowfall was between Greensboro and the mountains.								
Southern Moore County	22	1100 EST			0	0	?	0	Flood
	The same storm produced heavy rain in the eastern third of the state. Cain Creek overflowed in the Sandhills, and caused concern to residents. Some small dams in the area were threatened for a short period.								
NCZ-003-005 NCZ-003-005-006-007-009 Central and Western North Carolina	25	1700 EST			0	0	4	0	Ice Storm
	25	1600 EST			0	0	?	0	Heavy Snow
	The third winter storm of the month caused heavy snow across the northern parts of the mountains, foothills, and piedmont. In the Northeast Piedmont and Northern Coastal Plain, most of the precipitation fell as sleet and freezing rain. This caused some damage to power lines, and minor structural damage. Snowfall amounts were mostly 5 to 7 inches, but reached 10 inches in isolated spots.								
32 NORTH DAKOTA — NONE REPORTED									
33 OHIO									
OHZ004-007 Northeast Hills of Ohio and Southeast Ohio	01	0700EST			0	0	?	0	Heavy Snow
	Scattered locations received 4 to 6 inches of snow. The snow started around 1900 EST on December 31st.								
OHZ001 Northeast Ohio	10	0700EST			0	0	?	0	Heavy Snow
	Scattered localities received 4 to 5 inches of snow. The snow began about 1900 EST on the 9th.								
OHZ002 Erie and Ottawa Counties	19	Evening			0	0	5	0	High Waves/Flooding
	Strong northeast winds pushed water from Lake Erie inland. The worst damage occurred in and around Huron where several beachfront structures were destroyed.								
OHIO									
OHZ001-002-010 Northwest and North-Central Ohio	20	1800EST			0	0	?	0	Heavy Snow
	A winter storm dropped about 5 to 8 inches of snow on much of the area. The period of heavy snow started at about 1000 EST on the 20th.								
OHZ002-003-004 North-Central and Northeast Ohio	23	0600EST			0	0	?	0	Heavy Snow
	About 4 to 6 inches of snow fell on the area. The snow commenced at 0000 EST on the 23rd.								
OHZ009 Lawrence County	25	1400EST			0	0	?	0	Heavy Snow
	Chesapeake received 4 inches of snow. The snow started at 0600 EST.								
34 OKLAHOMA									
OKZ001-002-003-004-005-006-007-008-009-010-011-012-013-014-015-016-017-021-022	16-17	1500CST-1800CST			4	?	7	7	Heavy Snow/ Ice Storm
	Four to six inches of snow fell across portions of the Panhandle and Northwest while freezing rain and sleet fell over much of the state. The freezing rain caused a coating of ice of up to one inch on trees and powerlines. Many power lines were downed due to the ice, causing a loss of power to over 100 thousand people for periods of only a few hours to as much as four days. Trees in orchards were stripped of limbs which may cause the trees to die, but will certainly cause a loss of crops for this year. Three fatalities were attributed to icy roadways and one man was electrocuted while repairing power lines. Damage to fruit and nut trees is estimated at over 6 million dollars. Damage to homes, autos, power lines, and livestock is around 5 million dollars. Auto accidents are estimated at between 500 and 1000, with numerous injuries having occurred.								
OKZ004-005-006-007-008-009-010-011-012-013-014-015-016-017-021-022	17-18	1800CST-1800CST			?	14	7	?	Heavy Snow
	Six to ten inches of snow fell giving a total accumulation of 13 to 14 inches in some areas. Drifts of 4 to 5 feet were common on east-west roads. Will Rogers World Airport was shut down for 36 hours. The drifts of snow on houses, schools, and businesses caused many roofs to collapse. The roof of a commercial laundry in Shawnee collapsed injuring 14 employees. The collapse led to a fire which destroyed the building. Many towns and cities were at a complete standstill, as roads were impassable. This closed most schools until the following Wednesday. Damage due to collapsed roofs across the state is estimated at 7 million dollars.								
35 OREGON									
ORZ001-002-003 Oregon Coast	02-03	1650PST			0	?	5	0	High Wind and Coastal Flood
	A strong low pressure system moved northward along the coast. This resulted in strong winds with a peak gust of 96 mph having been reported at Cape Blanco. Heavy rains caused minor flooding of the coastal streams. The high winds hit the coast in conjunction with the year's highest high tides, causing considerable beach erosion and some coastal highway washouts or mudslides. Several expensive beach homes were damaged and high water and waves caused damage in the coastal community of Waldport. Several people were injured and, in some cases, nearly killed.								
Malheur County	03	0400NST and 0600NST			0	0	3	0	High Wind
	At about 0400NST, a CB antenna in Vale was blown off the roof of a residence and into a power line. At about 0600NST, a tree at a nearby location was blown over into a line.								
ORZ001-002-003 Oregon Coast	27-28	0415PST			0	?	?	0	High Wind
	A strong Pacific front moved onto the coast in the afternoon. Wind gusts in excess of 80 mph were reported. Wind gusts of up to 70 mph also hit Ashland in southwest interior Oregon.								
ORZ006 Cascade Mountains	27-28	2200PST			0	?	?	0	Heavy Snow
	The cold front described above moved across the Cascades overnight. Five to 16 inches of snow was reported as having fallen in the passes and at resorts.								

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1987

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	

OREGON

ORZ001-002-003 Oregon Coast 31 2130PST 0 ? 5 0 High Wind
 A strong low pressure system and cold front moved up the coast in the evening. Wind gusts from 60 to 85 mph were reported and had caused much damage from Coos Bay northward. Heavy rain caused some minor flooding on the coastal streams. The combination of the high winds and coexisting high tides caused some beach erosion and damage to highways and beach properties.

36 PENNSYLVANIA, Eastern

PAZ007-008-009-010-016 North-Central to Northeast PA. and Lower Susquehanna Valley 01 1700 EST to 02 1800 EST 0 0 2 0 Heavy Snow
 Snow began falling late afternoon on the 1st in the south and during the evening in the north. The snow ended by early afternoon on the second, but some light snow continued overnight into the 3rd in the north. The heaviest snowfall was in the morning of the 2nd over the Lower Susquehanna Valley, in the morning and early afternoon over the Middle and Upper Susquehanna Valleys and in the afternoon over the Northeast Metropolitan and Poconos areas. Some sleet and rain or freezing rain mixed with the snow over most areas. The final accumulations of snow reached 8 to 11 inches over the Lower Susquehanna Valley, 9 to 15 inches over the Middle Susquehanna Valley, 6 to 14 inches over the Upper Susquehanna Valley and 6 to 12 inches over the Northeast Metropolitan and Poconos. Some snow, generally less than 4 inches accumulation, also fell over the East-Central and Southeast.

Slippery roadways caused numerous accidents, many with injuries and at least one death. At least 5 deaths were due to heart attacks while shoveling snow.

PAZ007-008-010-011-016 North-Central to Eastern Pennsylvania 19 0700 EST to 2200 EST 0 0 3 0 Heavy Snow
 Precipitation began 7 to 9 AM over the Middle and Upper Susquehanna Zones and across the south. Over the northeast it did not begin until late morning. The precipitation started as rain across the south, but changed to freezing rain by late morning over the East-Central Zone. Across the north the precipitation was snow except for a little sleet and freezing rain over the Poconos and Northeast Metropolitan Area. The precipitation had changed to snow in all areas by late in the afternoon. The significant snowfall ended by late in the evening, but some very light snow continued in some areas overnight. Accumulations of snow were 4 to 8 inches over the Upper Susquehanna Zone, 5-8 inches over the Middle Susquehanna Zone, 5-7 inches over the Northeast Metropolitan Zone, 6 to 8 inches over the Poconos and 2 to 7 inches over the East-Central Zone. The East-Central Zone had 1/2 inch of ice before the snow began and many utility lines were downed.

PAZ007-008-009-010-011-012-016 Eastern Pennsylvania 22 0900 EST to 2400 EST 1 0 4 0 Heavy Snow
 Snow began across southern sections at 9 to 10 AM and northern sections about noon. The snow became very heavy and was accompanied by blowing and drifting. The snow accumulated at the rate of 2 inches or more an hour during the afternoon and early evening. Five inches of snow accumulated in one hour at Williamsport. The heavy snow along with blowing and drifting greatly restricted visibility and made travel almost impossible.

A 49-year-old woman in Northhampton Township, Bucks County lost her way while walking in the storm. She fell down in a wooded area and died from exposure.

Snow accumulations were 7 to 21 inches over the Upper Susquehanna Zone, 11 to 21 inches over the Middle Susquehanna Zone, 10 to 16 inches over the Lower Susquehanna Zone, 8 to 14 inches over the Northeast Metropolitan Zone, 10 to 12 inches over the East-Central and Southeast Zones and 12 to 24 inches over the Poconos Zone. The heavy snow caused a portion of the roof of a commercial building to collapse in Berwick, Columbia County.

PAZ017 Southeast 25 2100 EST to 26 1200 EST 0 0 2 0 Heavy Snow

Snow began falling around 9 PM on the 25th and continued until around noon on the 26th. Accumulations were generally 4 to 8 inches over the Southeast Zone. Accumulations ranged from 4 inches or less over the north and northwest portions to around 8 inches in the southeast. Light accumulations of mainly an inch or less fell over the East-Central and Lower Susquehanna Zones.

Snow-covered roadways resulted in numerous automobile accidents.

36 PENNSYLVANIA, Western

PAZ004-005-006-014-015 North, Central, and Southwest Pennsylvania 02 day 0 0 0 0 Heavy Snow
 A low pressure system moving up the East Coast left 6 to 10 inches of snow in most areas and 10 to 15 inches in the Laurel Mountains.

PAZ002-003-014 Northwest and North-Central Pennsylvania 19 day 0 0 0 0 Ice Storm/ Heavy Snow
 A low pressure system moving east from Kentucky spread freezing rain, sleet and snow across the northwest corner and the north-central mountains of the state. Power outages and downed trees from ice accumulation were common. Clearfield reported 6 inches of snowfall.

PAZ004-006-014 Central Pennsylvania 22 day 0 0 0 0 Heavy Snow
 A low pressure system moved up the East Coast and spread 6 to 12 inches of snow across central Pennsylvania.

PAZ001-002 Northwest Pennsylvania 23 early morning 0 0 0 0 Heavy Snow
 Six to eight inches of snow fell from lake-effect squalls.

PAZ003 Western Pennsylvania 30 early morning 0 0 0 0 Heavy Snow
 A low pressure system moving out of the Midwest spread up to 6 inches of snow in portions of western Pennsylvania.

37 RHODE ISLAND

RIZ001, Northern Portion 02 All day 0 0 0 0 Heavy Snow
 An intense coastal storm which passed to the east of Cape Cod brought heavy snow to the northern portion of the state. Amounts of up to 9 inches were reported along with strong winds.

RIZ001, Northern Portion 22 Afternoon & evening 0 0 0 0 Heavy Snow

An intense coastal storm brought heavy snow to the northern part of the state. The snow began during the early afternoon and many businesses let their employees out of work early. This resulted in many traffic tie-ups because of the heavy snow and poor road conditions. During the evening the heavy snow changed to rain after accumulations of 6 to 8 inches.

RIZ002, South Coastal & Narragansett Bay 23 Early morning 0 0 5 0 Coastal Flooding
 The passage of an intense storm system to the west of the state brought gale force, south and southwest winds gusting to near hurricane force. The occurrence of the high winds coinciding with high tide resulted in a tide 4.1 feet above normal on the eastern side of Narragansett Bay. Flooding and damage to piers and boats was reported. The hurricane tidal barrier was closed to protect areas in the upper bay from any serious flooding.

RIZ001-002, Statewide 23 Early morning 0 0 0 0 High Winds
 An unusually intense coastal storm whose center passed through central CT and central MA moving along a north-northeast track brought south and southwest winds gusting to 50 to 65 MPH. There were some scattered power outages, but no other significant damage was reported. The peak wind gust at Providence was 51 MPH while Block Island reported 60 MPH for a gust. The lowest barometric pressure reading for Providence was a new record for January, reaching 28.67 inches at 0105EST.

38 SOUTH CAROLINA

Statewide 1 Coastal Storm

An intense coastal storm moved northward along the South Carolina coast on January 1st. The passage of the storm coincided with a period of usually high astronomical tides. This resulted in a tide height of 8.9 feet in Charleston Harbor, highest since the hurricane of 1940, and a 9.4 foot tide height at Myrtle Beach, highest since Hazel in 1954. There was beach erosion along the entire South Carolina coast, however, the most extensive was along the northeast coast where eight foot waves pushed by winds gusting to over 50 mph wracked sea walls, battered beach front property, and flooded low areas. Many dunes were leveled. Residential and business property along and near coastal inlets experienced serious tidal flooding. Total damage of storm was estimated at 25 million dollars.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1987

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	
— SOUTH CAROLINA									
			Precipitation occurred throughout the state during the passage of the storm, with snow reported in the mountains and foothills.						
			A breakdown of storm-related events follows:						
Mountains and Foothills SCZ001-002	1	0100-1000EST			0	0	3	0	Heavy Snow
			One to eight inches or more of snow across the higher elevations of Greenville, Spartanburg, and Cherokee counties interrupted traffic and caused power outages.						
Horry County	1	0000-1200EST			0	0	4	0	High Winds
	1	0000-1200EST			0	0	7	0	Flooding
			Severe beach erosion occurred, and 237 homes and businesses were damaged.						
Georgetown County	1	0000-1200EST			0	0	4	0	High Winds
	1	0000-1200EST			0	0	6	0	Flooding
			Severe beach erosion occurred, especially along outer beaches, and 78 homes and businesses were damaged.						
Charleston County	1	0000-1200EST			0	0	4	0	High Winds
	1	0000-1200EST			0	0	6	0	Flooding
			Considerable beach erosion occurred, especially along the outer beaches. There were 162 homes and businesses damaged.						
Colleton County	1	0000-1200EST			0	0	3	0	High Winds
	1	0000-1200EST			0	0	5	0	Flooding
			Thirty-two homes were damaged.						
Beaufort County	1	0000-1200EST			0	0	3	0	High Winds
	1	0000-1200EST			0	0	4	0	Flooding
			There was considerable beach erosion, especially along the outer beaches.						
Jasper County	1	0000-1200EST			0	0	3	0	Flooding
			There was considerable beach erosion.						
Beaufort County	5	1220EST			0	0	4	0	Flooding
			The second coastal storm of the month caused moderate beach erosion along the outer coastline as well as flooding at time of high tide.						
Charleston County Northwestern	19	1000EST			0	0	3	0	Winds
			Winds interrupted power on Chicoro, Iris, Spruill, McMillian, and West Ashley Streets in Charleston, as well as in the North Bridge section of Highway #7. Also, power interruptions occurred on James Island.						
Spartanburg County	19	1500EST			0	0	3	0	High Winds
			Winds gusting to 47 mph broke limbs and interrupted power.						
Northwest South Carolina SCZ001-002-003-004	22	0100 to 1100EST			0	0	4	3	Heavy Snow and Sleet
			Heavy snow up to 13.5 inches deep in the mountains and lesser amounts of snow mixed with sleet elsewhere over northwestern South Carolina interrupted travel, closed schools and interrupted activities. The heavy snow broke limbs, damaged shrubs, and contributed to numerous traffic accidents and injuries. There were numerous power failures including 12,000 homes without power in Spartanburg County and 1200 homes without power in Cherokee County. Areas affected were north of a line from Abbeville to Lancaster Counties.						
Northwest South Carolina SCZ001-002	25	1400EST			0	0	5	3	Ice Storm
			Snow, sleet and freezing rain began during the afternoon of 25th upstate and continued to the early morning of the 26th. Ice broke limbs, interrupted power and contributed to several traffic accidents and injuries. Depth of snow and ice was two to five inches.						
Central, Northern and Northeast South Carolina SCZ003-004-005	26	2100EST			0	0	5	4	Ice Storm
			Freezing rain, sleet and snow with ice accumulation 1 to 2 inches deep interrupted normal activities, contributed to numerous wrecks, and resulted in injuries and power outages. Freezing precipitation began during night of the 26th, and ended early on the morning of the 27th. Ice broke limbs and trees.						
39 SOUTH DAKOTA									
SDZALL Statewide	21	Morning- Evening			0	0	0	0	High Winds
			Strong winds of 55 to 65 mph occurred over the state. The winds produced blowing snow which caused near-zero visibilities in many areas. A gust of 64 mph was reported at Rapid City (Pennington County).						
40 TENNESSEE									
Hamilton County	19	0110EST			0	0	0	0	Flash Flood
			Ten homes were evacuated due to a flash flood along Spring Creek, a tributary to South Chickamauga Creek in southern Hamilton County. About 15 roads in this area were covered by water in low-lying spots.						
Hawkins County Sullivan County	19	Morning			0	0	4	0	Flash Flood
	19	Morning			0	0	3	0	Flash Flood
			Rainfall amounts between 1 and 2 inches followed earlier rains, causing Horse Creek in western Sullivan County to flood. Automobile accidents were caused by the high water on Highway 93, and a tree was toppled by the water and blocked the road. In Hawkins County, damage estimated at \$40,000 occurred to roads, bridges, and culverts, as many small streams flooded.						
TN2001-002-003-005 Eastern Tennessee	19	0800EST- 1400EST			0	0	?	0	High Wind
			Strong large-scale winds generally near 40 miles an hour downed trees and power lines throughout eastern Tennessee, from Chattanooga northward through Oak Ridge, Knoxville, Maryville, and Sevierville to the Tri-Cities area. Numerous signs were downed and trailers were overturned. Roof damage was also reported in Hamblen County. A wind gust of 70 miles an hour was reported at the Gatlinburg-Pigeon Forge Aviation Center. Heavy rains before the high winds saturated the ground and facilitated the wind damage.						
TNZALL Statewide	225				0	?	?	0	Snow and Ice Storm
	24- 27		A series of generally light snowfalls and sleet/freezing rain episodes affected eastern Tennessee on the 22nd and most of Tennessee on the 24th through the 27th. Snow and/or ice accumulations ranged from trace amounts in southwestern and south-central portions to well over 6 inches in the mountains of upper east Tennessee. Hundreds of minor traffic accidents occurred statewide during this period resulting in scores of mostly minor injuries. Numerous accidents caused high accumulative damage.						
41 TEXAS, Northern									
Western Half of North Texas	16	Evening- 18 Evening			0	0	?	?	Ice Storm
			A winter storm struck the western half of North Texas as freezing drizzle and freezing rain coated the area with ice the evening of Friday, January 16 and during the day Saturday, January 17. Up to two inches of snow fell on top of the ice by the evening of Sunday, January 18.						
			Many motorists were stranded along Interstate 20. Hundreds of traffic accidents were reported, with five fatalities blamed on the ice-glazed highways in Coleman County.						
Trinity County, Trinity Groveton	24	2000CST			0	0	?	?	Hail (0.75)
	24	2005CST			0	0	?	?	TSTM Wind
			Hail to 3/4 inch diameter fell at Trinity at 2000CST. Strong winds downed several trees at Groveton at 2005CST.						
Nacogdoches Co., 12 W Nacogdoches 6 NW Nacogdoches	24	2019CST	Short	Narrow	0	0	0	0	Tornado (F0)
	24	2030CST			0	0	0	0	TSTM Wind
			A brief tornado downed trees near Douglass (12 W Nacogdoches) at 2019CST. Strong winds downed numerous trees along Highways 204 and 259 about 6 miles northwest of Nacogdoches at 2030CST.						
Shelby Co., 5 NW Center	24	2112CST			0	0	?	?	Hail (1.00), TSTM Wind (52)
			Hail up to one inch in diameter and winds up to 60 MPH were reported 5 miles northwest of Center at 2112CST.						

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1987

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					KILLED	INJURED	PROPERTY	CROPS	

41 TEXAS, Southern

Jefferson County	10	1130CST				0	0	5	0	Tstm. Winds (?)
<p>High winds from a thunderstorm did scattered minor damage in Port Arthur. At least one large tree was downed and one barn destroyed. A satellite disk was demolished at a hotel. The wind was measured at 42 knots at the NWS office at the Jefferson County Airport.</p>										
Bandera, Gillespie, Kerr, Kimble, Mason Medina and Real Counties	21	Early Morning				0	0	0	0	Heavy Snow
<p>A general 2-inch snowfall occurred over these counties with a 6 inch depth on the Real-Kerr county line. All roads were reported open as the temperature was at or above freezing. 3 inches were reported by an observer at Medina in Bandera County. 3 inches also fell at Mason. The snow quickly melted.</p>										
Madison County	24	1915CST				0	0	0	0	Hail (0.87)
<p>Hail the size of quarters fell in Madisonville. Damage was not reported.</p>										
Polk County	24	2030CST				0	0	0	0	Tstm. Winds (?)
<p>High winds downed trees in the northern part of the county around Mosvo and Corrigan.</p>										

41 TEXAS, Western

Far West, Panhandle, South Plains & Permian Basin	16- 18	All Day				4	?	?	0	Winter Storm
<p>A vigorous upper level storm system spilled moisture across Arctic air, producing widespread heavy snowfall. The snow, which accumulated to as much as 16 inches at Tulia, 14 inches at Canyon, and 10 inches at Lamesa, was preceded by freezing drizzle, which amounted to only a trace of measurable precipitation and created a glaze during the evening of the 16th that fomented numerous traffic accidents on the slick road surfaces. At least four fatalities are directly attributable to this condition.</p> <p>Among the fatalities were Ray Trusler, 38, who died on Interstate 27 eight miles south of Hale Center in Hale County following a head-on collision. Victor Avila, 38, was killed 10 miles west of Pecos in Reeves County when his truck rolled over after sliding into a median. Kathy Martinez, 24, died about two miles east of Slaton in southeast Lubbock County following a roll-over of her vehicle, and Benton Jerry Taylor, 47, was fatally injured in El Paso when his car slid off an off ramp of Interstate 10 and he was thrown through the sunroof.</p> <p>A total of 117 traffic accidents were reported in the city of Lubbock between 6 a.m. CST and 5 p.m. CST on the 16th. The snowstorm that followed occurred with temperatures in the teens to lower 20s, and covered the ice with a thick shroud of snow that brought commerce to a standstill. The snowcover lingered on roadways for nearly a week. Driving conditions were so bad on the 16th and 17th that the Postal Service halted delivery in much of the Permian Basin because of hazards to the letter carriers.</p> <p>Additionally, the weight of the snow caused the roof of the Clyde Carruth Pavilion in Pampa (Gray County) to collapse on the 18th.</p> <p style="text-align: center;">M38V, M38V, M47V, F24V</p>										

42 UTAH

UTZ001 Cache Valley	02	0025MST				0	0	1	0	Heavy Snow
UTZ003 Wasatch Front	02	0925MST				0	0	1	0	Heavy Snow
UTZ010 Northern Mountains	02	0800MST				0	0	1	0	Heavy Snow
<p>A cold front had produced several inches of snow in the Cache Valley by shortly after midnight on the 2nd and continued across the northern portion of the state during the remainder of the morning. Some bench areas of Salt Lake City had received 4 inches of snow by mid morning and the ski resorts in the Wasatch Mountains to the east had over a foot in most spots. The Brighton Resort reported 14 inches in 12 hours as of 8:00 a.m. MST and the Solitude Resort had accumulated 12 inches.</p>										
UTZ010 Northern Mountains	04	1600MST				0	0	1	0	Heavy Snow
<p>A Pacific cold front dumped a foot or more of welcome snow on many Northern Wasatch Mountain ski resorts on this Sunday. Park West had received 12.5 inches in 12 hours as of 3:30 p.m., Park City had 18 inches by 4 p.m., and Solitude reported 14 inches in 12 hours as of 3 p.m.</p>										

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	

— UTAH

UTZ003-010 Wasatch Front and Northern Mountains	06	0800MST				2	2	4	0	Heavy Snow
<p>A slow-moving Pacific storm continued to dump snow on northern sections of the state. 24 hour snowfall totals ranged from 6 to 9 inches in the valleys along the Wasatch Front to 18 inches at the Alta Ski Resort in Little Cottonwood Canyon. The resulting slick roads were blamed for two deaths and at least two injuries during the storm. One teenager was killed and two other passengers were injured when their car slid into a school bus in Salt Lake County. In Southern Utah the snow was not as deep, but roads were still slick and the driver of a semi was killed when he lost control of his vehicle on Highway 89 in Kane County. M17V, M51V</p>										
UTZ006-008-011 Southwest Valleys, Southeast Valleys, Southern Mountains	07	1345MST				0	0	1	0	Heavy Snow
<p>A slow-moving low pressure system settled southward and left several inches of snow in the southwest corner of Utah. Snowfall amounts for the 12 hour period ending at 1:45 p.m. MST included 8 inches at Cedar City, 8 to 10 inches at Kanab, and 5 inches in the Vevo/Enterprise area. 24 to 30 inches accumulated at the 10,000 foot level at the north end of Zion National Park. The storm's impact was felt most along Interstate 15 between Cedar City and St George in the Black Ridge area, where the highway was closed for 6 hours due to accidents.</p>										
UTZ003	15	0733MST				0	0	1	0	High Wind
UTZ003	15	1105MST				0	0	1	0	High Wind
UTZ001	15	1130MST				0	0	1	0	High Wind
UTZ003	15	1533MST				0	0	4	0	High Wind
UTZ003	15	1630MST				0	0	4	0	High Wind
UTZ003	15	2100MST				0	0	1	0	High Wind
UTZ003 Wasatch Front and Cache Valley	16	0405MST				0	0	1	0	High Wind
<p>Easterly canyon winds caused a considerable amount of damage and restricted traffic along Interstate 15 through Weber and Davis Counties for much of this Thursday. At 7:33 a.m. a spotter in Centerville reported a gust to 64 mph. By 11:00 a.m. Interstate 15 was closed to high-profile vehicles and lightweight vehicles through Weber and Davis Counties as the Utah Highway Patrol estimated the wind gusts at 80 mph. At 11:30 a.m. the Highway Patrol estimated winds in Logan Canyon at 60 mph. By mid afternoon the damage started to mount up along Interstate 15 in Weber and Davis Counties. One motor home and several campers had blown over in the strong cross winds. Several semi-tractor trailers were also blown off the road. At around 4:30 p.m., gusts in the Centerville area were clocked at 86 mph and 16 cars of a northbound Union Pacific train were blown off the tracks near Farmington. At 9 p.m. the spotter in Centerville reported a gust to 84 mph, and sometime later that night, a gust to 98 mph. The Highway Patrol estimated winds to 80 mph near the mouth of Parleys Canyon in Salt Lake County at about 4 a.m. on the 16th. Widespread power outages were reported in Davis and Weber Counties, as 36 power poles were blown down during the storm. Many people were without heat and lights for more than 8 hours. A \$10,000 bubble over the Beautiful Municipal swimming pool deflated and was ruined when the power was cut off and backup power failed.</p>										
UTZ006-008-011 Southwest Valleys, Southeast Valleys, and Southern Mountains	16	1700MST				0	0	1	0	Heavy Snow
<p>The low pressure center that settled over the southern portion of the state produced heavy snow in some locations as well as canyon winds along the Wasatch Front. In the 12-hour period ending at 5 p.m. on the 16th, Monticello had received 15 inches of new snow, Kanab 14 to 24 inches, and Fillmore 8 inches. Drifts up to 3 feet deep were reported along Interstate 70 near the Colorado border.</p>										
UTZ003	28	1130MST				0	0	1	0	High Wind
UTZ003	28	1450MST				0	0	1	0	High Wind
UTZ003	28	1530MST				0	0	1	0	High Wind
UTZ010	28	1540MST				0	0	1	0	High Wind
UTZ010	28	1545MST				0	0	1	0	High Wind
UTZ010	28	1500MST				0	0	1	0	Heavy Snow
UTZ010	28	1609MST				0	0	1	0	Heavy Snow
UTZ003	28	1535MST				0	0	1	0	Heavy Snow
UTZ003	28	1609MST				0	0	1	0	Heavy Snow
UTZ003	28	1609MST				0	0	1	0	Heavy Snow
UTZ003	28	1644MST				0	0	1	0	Heavy Snow
UTZ003	28	1840MST				0	0	1	0	Heavy Snow
UTZ003 Salt Lake County Wasatch Front and Northern Mountains	28	1130MST				0	0	4	0	Lightning
<p>A vigorous cold front moved through Northwest Utah on this Wednesday, and was accompanied by strong winds, heavy snow and damaging lightning. Prefrontal winds gusted to as high as 100 mph at the Brighton ski resort and 99 mph at Hidden Peak shortly before 4 p.m. In the valleys, peak wind gust reports included 58 mph at the Provo Airport at around 11:30 a.m., 61 mph in South Salt Lake at around 2:50 p.m., and a gust to 67 mph in Centerville at around 3:30 p.m. Twelve-hour snowfall totals for the mountain areas included 13 inches at Snowbird, and 12 inches at Beaver Mountain. Valley locations received up to half a foot in several locations. Spotters reported accumulations of 4 inches in Holladay, 5 and 6 inches in Sandy, and 6 inches in Cottonwood. At around 11:30 a.m. a house in Sandy was struck by lightning and sustained fire damage to a bedroom.</p>										

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1987

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	

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	

43 VERMONT

Statewide	03	PM				2	12	5	0	0	Snow
<p>Snow fell over the entire state, Friday afternoon. Two (2) men died in a car accident; cause of accident was listed as poor weather. Heaviest snow totals were in Southern Vermont. Several stations reported over one foot of new snow.</p> <p style="text-align: center;">M-UNK-V M-UNK-V</p>											
Statewide	11					1	19	7	0	0	Snow
<p>Storm dropped over 26 inches of snow in parts of Vermont. The wet snow caused scattered power outages. One male was killed in a collision between a snowmobile and a car. Heavy snow and 25 MPH winds were listed as the cause.</p> <p style="text-align: center;">M-19-V (Snowmobile)</p>											
Statewide	22	PM				1	5	6	0	0	Snow
<p>The third storm of the year covered Vermont with another 10-18 inches of snow. The storm was followed by sub-freezing temperatures. One male who lived alone was found dead from exposure one week after the storm.</p> <p style="text-align: center;">M-69-O (Exposure)</p>											
Statewide	29	1200EST				0	5	6	0	0	Snow
<p>Another major snowstorm hit Vermont, this time slowing rush hour traffic; only scattered power outages were reported.</p>											

44 VIRGINIA

VAZ005-008-009 -010-011-012 -013-014-015 Northern and Western Virginia	1	Morning				0	0	4	0	0	Heavy Snow
<p>A strong low pressure system moved northeast along the Atlantic Coast. Snow began over the southwestern part of the state around dawn and spread northeast into northern portions by noon. Four to six inches of snow fell over a 12 hour period, although the snow mixed with sleet or freezing rain over much of the area before ending. Slippery roads contributed to many accidents.</p>											
VAZ001-002 Coastal Virginia	1	1800EST				0	0	6	0	0	High Wind
<p>As strong low pressure moved northeast along the coast, winds gusted to 60 MPH at Wallops Island between 1800 and 2300 EST. Several roofs were damaged. The storm, combined with high astronomical tides, also resulted in beach erosion in the Sandbridge area south of Virginia Beach. Damage was estimated at \$2 million as 264,000 cubic yards of sand was washed away. Tides ran 2.5 to 3 feet above normal with heavy wave action.</p>											
Scott County, Wise County, Prince William County, and Culpeper County	19	Afternoon				0	0	4	0	0	Flash Flood
<p>Between 2 and 2.5 inches of rain fell over western portions of the state, causing many small streams to overflow their banks. Roads in low-lying areas were flooded.</p>											
VAZ-003-004-005 -006-007-008-009 -010-011-012-013 -014-015-016 Statewide except near the coast	22	Morning				1	0	5	0	0	Heavy Snow
<p>Ten to fourteen inches of snow fell over western and central portions of the state in a 12 to 18 hour period. This was the greatest snowfall in four years for most of these locations. Over the interior Tidewater area, the snow changed to rain during the afternoon after 4 to 6 inches of snow fell. Winds increased to around 35 MPH late on the 22nd and early the 23rd, causing drifting. A man died of exposure in Nottoway County after attempting to take a shortcut home. His body was found about 500 yards from his house.</p> <p style="text-align: center;">M360</p>											

— VIRGINIA

VAZ-003-004-005 -006-007-008-009 -010-011-012-013 -014-015-016 Statewide except near the coast	25	Morning				0	0	5	0	0	Heavy Snow
<p>Snow began falling the morning of the 25th and continued until the afternoon of the 26th. Ten to fourteen inches of snow fell over western and northern sections of the state, and 6 to 10 inches over south and central sections. This new snowfall, on top of snow already on the ground, resulted in snow cover of 20 to 30 inches over northern and western sections of the state.</p>											
45 WASHINGTON											
Walla Walla County	02	Evening				0	0	4	0	0	High Wind
<p>Chinook winds gusting to as much as 55 miles an hour knocked down an elm tree adjacent to a Walla Walla home, causing damage to the verandah.</p>											
Western Washington	03	0730PST				0	0	4	0	0	Flooding
<p>Abnormally high tides combined with low atmospheric pressure, moderate winds and rainfall to cause minor flooding of roads near sea level. Hardest hit with minor flooding was Camano Island in Puget Sound, which was isolated for about an hour while water covered the one access road to the island. Some dikes on the island were also washed out, allowing minor flooding of fields and some buildings.</p>											
Western Washington	31	All Day				0	0	4	0	0	Flooding
<p>A slow-moving Pacific storm moved over Western Washington during the day. Along coastal areas, winds gusting to 70 miles per hour combined with the abnormally high morning tides to tear up 1600 feet of rockwall protecting the Ocean Beach Highway near the town of Chinook. In the Puget Sound area, almost 2 inches of rain fell in a 12 hour period late in the day, causing some mudslides across roadways and some Western Washington rivers to reach flood stage.</p>											

46 WEST VIRGINIA

Wood County	19	1330EST				0	0	?	?	?	High Winds
<p>Wind gusts of 58 mph associated with a very active cold front passed through Wood County causing many trees and limbs to be blown down. Several roads were blocked until the large fallen trees were removed.</p>											
Randolph County	19	1500EST				0	0	?	?	?	High Winds
<p>Winds associated with a very active cold front passed through Randolph County while gusting to 55 to 60 mph. Many trees were blown down and 2900 residents were left without power. The high winds were followed by very heavy rainfall.</p>											
WV2005-007-008-009-010-011 Southern and Eastern Counties	22	morning-afternoon				0	0	?	?	?	Heavy Snow
<p>The season's first major snowstorm, the worst since 1983, dumped up to 16 inches of snow on the southern and eastern counties of the state. All schools and most businesses remained closed for several days. Following the snow, windchills dropped to between -10°F and -30°F. Some snowfall measurements included: 16 inches at Franklin, 15 inches at Terra Alta, 14 inches at Iaeger and Seneca State Forest, and 12 inches at Petersburg.</p>											
WV2007-008-010 Southern and Eastern Counties	25	overnight				0	0	?	?	?	Heavy Snow
<p>The second major snowstorm in three days dumped up to 11 inches of new snow on the same counties that were struck by the storm of January 22nd. Total snow depths after both storms reached 22 inches in Petersburg and Bluefield, and 16 inches in Beckley.</p>											

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INURED	PROPERTY	CROPS	
47 WISCONSIN									
WIZ002-004-007-008-005 North-Central and Southern Wisconsin	29-30	0700CST 0200CST			0	0	?	0	Winter Storm
<p>A winter storm dumped anywhere from 2 to 8 inches of snow on much of Wisconsin, snarling traffic and closing schools and businesses. Over 200 vehicle accidents were recorded in 7 southeast Wisconsin counties alone. A Waukesha County law enforcement officer described roads as "beautiful if you have a snowmobile". The storm dumped "the heaviest widespread snow accumulations of the winter", according to officials. Smallest amounts of snow were in the south-west part of the state, where it was mixed with freezing rain and sleet. Ice accumulations up to 1/2 inch glazed roads and also coated power lines in the area, causing scattered power outages.</p>									
48 WYOMING									
WYZ001 Northwest Mountains	02	0630MST to 1030MST			0	0	0	0	Heavy Snow
<p>A winter storm dumped 6 to 12 inches of snow at a few locations in the northwest mountains, including Yellowstone National Park. Grand Targhee ski resort, about 5 miles southeast of Alta, received 12 inches over a 24-hour period.</p>									
WYZ011-016 East and South-central	03	1835MST to 2040MST			0	0	?	0	High Wind
<p>Sustained winds of 40 to 45 miles an hour blew over the higher elevations of the southeast near Arlington with gusts to 60 miles an hour logged at 1835MST. Winds gusted to near 50 miles an hour at Natrona International Airport near Casper shortly before 1835MST.</p>									
WYZ008-014 Far West and South-Central	05-06	2355MST to 0900MST			0	0	0	0	Heavy Snow
<p>A storm that moved through the far west and south-central regions deposited 6 to 12 inches of snow. Casper picked up 11 inches and Pinedale, located 45 miles north of Big Piney, about 12 to 14 inches. The snow closed some roads at times, particularly U.S. 287 north of Rawlins for a number of hours.</p>									
WYZ09E-09E Northeast and Southeast Wyoming	20-21	1735MST to 1300MST			0	0	3	0	High Wind
<p>Gusts between 60 to 75 miles an hour were logged at Vedauwoo west of Cheyenne and Arlington west of Laramie. Gusts between 50 to 60 miles an hour were clocked at Cheyenne, Gillette and Sheridan. The high winds, combined with light snow, reduced visibilities to near zero over the northeast. Many roads were closed for times between Sheridan and Sundance.</p>									
WYZ016 Southeast	24	1400MST			0	0	0	0	High Wind
<p>Gusts to 60 miles an hour were logged at Vedauwoo along the Laramie Range between Laramie and Cheyenne.</p>									
WYZ014-015-016-017 South	25	0100MST to 2350MST			0	0	0	0	High Wind
<p>Sustained winds of 40 to 45 miles an hour with gusts to 60 to 65 miles an hour at times were clocked over the higher elevations of Interstate 80 at Arlington and Vedauwoo.</p>									
WYZ016-017 Southeast	28-29	1415MST to 1430MST			0	0	?	0	High Wind
<p>Several gusts near 70 miles an hour were observed at Vedauwoo along the Laramie Range near 1330 MST on the 28th. Gusts from 60 to 70 miles an hour were also logged at Cheyenne airport from 2200 MST on the 28th to 0205 MST on the 29th: Sustained winds of 45 to 50 miles an hour blew at Cheyenne airport and Vedauwoo from 0200 to 0300 MST on the 29th. Wind gusts to around 60 miles an hour were common at other locations over the southeast. The strong winds, coupled with blowing and drifting snow, reduced visibilities near zero mainly over the higher elevations from Rawlins to Cheyenne. These areas of blowing and drifting snow contributed to a fatal car accident one mile west of Arlington along Interstate 80 during the evening of the 28th. High winds caused power blackouts across Torrington for 3 1/2 hours.</p>									
WYZ002 Northwest	29	0230MST			0	0	0	0	High Wind (Chinook)
<p>Gusts to 56 miles an hour were clocked at Cody between 0230 and 0300 MST.</p>									
49 ALASKA, Northern ————— NO REPORT RECEIVED									
49 ALASKA, Southern ————— NO REPORT RECEIVED									
49 ALASKA, Southeastern									
All Southeast Alaska	8-9							4	High Winds
<p>A series of intense low pressure systems crossed Southeast Alaska on the 8th and 9th bringing winds gusting to as high as 95 mph. These peak gusts occurred in Ketchikan, forcing the closure of the airport and the evacuation of the FAA office there. Power outages and damage caused by falling trees were reported as far north as Juneau.</p>									
50 HAWAII									
HIZALL All Islands	09-10				0	0	3	0	High Surf
<p>Minor surf damage occurred along the north shore of Oahu and along the Kona and Kohala coasts on the Island of Hawaii.</p>									
51 PUERTO RICO ————— NONE REPORTED									
52 VIRGIN ISLANDS ————— NONE REPORTED									
53 PACIFIC									
Yap	11								Typhoon ORCHID
<p>Typhoon ORCHID moved westward just north of the island of Yap at 0000UTC and caused some damage due to rain and wind.</p>									
American Samoa	17 pm				0	100	7	7	Hurricane TUSI
<p>The Manua group of islands located about 60 miles east of Pago Pago was struck by Hurricane TUSI's winds which were estimated at 110 mph in gusts. Extensive damage occurred on the islands of Tau, Olosega, and Ofu. More than 2000 people were left homeless and 600 temporarily moved to the island of Tutuila. There were no fatalities and 100 persons suffered mostly minor injuries. Damage to housing and agriculture was estimated at \$16 million. Damage to coconut plantations alone was estimated at \$8 million. TUSI was heading in a south-southeastward direction and its eye passed over the islands.</p>									

STORM SUMMARY

JANUARY 1987

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																											
Number								5																			
Days								2																			
Deaths																											
Injuries								1																			
Property Damage								5																			
Crop Damage																											
HAIL																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
THUNDERSTORM WINDS																											
Deaths																											
Injuries																											
Property Damage								4																			
Crop Damage																											
HIGH WINDS																											
Deaths				1																							
Injuries					2																						
Property Damage				5	7																				4		3
Crop Damage																								2			
LIGHTNING																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
FLASH FLOODS																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
FLOODS																											
Deaths																											
Injuries																											
Property Damage	?																									2	
Crop Damage	?																										
HEAVY SNOWSTORMS AND BLIZZARDS @																											
Deaths																											
Injuries																											
Property Damage	4	?					6	?	4	?	4	5	1	6	6											2	6
Crop Damage	1																										
ICE STORMS #																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage											5																4
HURRICANES AND TROPICAL STORMS																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
ALL OTHERS																											
Deaths			1	4																							
Injuries				?																							
Property Damage				?																							
Crop Damage				5																							6

SEE REFERENCE NOTES FOR STORM DAMAGE CATEGORIES

STORM SUMMARY

JANUARY 1987

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														1													1
Days													1														
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
HAIL																											
Deaths																											
Injuries																											
Property Damage														?													
Crop Damage														?													
THUNDERSTORM WINDS																											
Deaths																											
Injuries																											
Property Damage				3										5													
Crop Damage													?														
HIGH WINDS																											
Deaths																											1
Injuries								?																			2?
Property Damage			4	4				5			5		?				6	4		?		3					
Crop Damage																											
LIGHTNING																											
Deaths																											
Injuries																4											
Property Damage																											
Crop Damage																											
FLASH FLOODS																											
Deaths																											
Injuries																											
Property Damage														4													
Crop Damage																	4										
FLOODS																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
HEAVY SNOWSTORMS AND BLIZZARDS @																											
Deaths		3	?						1							1	1										6?
Injuries		?	?																								16?
Property Damage	2	6	8	5		?	14	?	4		4		?	?	4	?	8		5		?						
Crop Damage		4					?				3																
ICE STORMS #																											
Deaths																											
Injuries																											
Property Damage					4																						
Crop Damage							7		3		5		?														
HURRICANES AND TROPICAL STORMS																											
Deaths																											
Injuries																											
Property Damage																											100
Crop Damage																											77
ALL OTHERS																											
Deaths																											
Injuries																											
Property Damage	6																										5?
Crop Damage																											

SEE REFERENCE NOTES FOR STORM DAMAGE CATEGORIES

STORM DATA AND UNUSUAL WEATHER PHENOMENA

CORRECTIONS

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

33 OHIO

APRIL 1965

DEATH COUNT CHANGE: Following is a revised report that originally appeared on page 29 of the April, 1965 issue. This latest version includes a change in the death count.

Seneca County Rockaway Area	11 2215EST 20 300 4 30 5 0 Tornado (F3) This tornado first appeared a little south of Alvada, where it damaged a factory building. It then followed a hit-skip path for ten miles to the east, and finally established firm contact with the ground about three miles southeast of Tiffin. It continued east for about another ten miles, maintaining firm contact with the ground. The storm finally lifted about three miles southeast of Republic. It barely missed several small communities enroute, but struck solidly in Rockaway, which had four fatalities, as well as four homes destroyed and three more heavily damaged. M??P M??P F??P F??P.
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STORM SUMMARY

CORRECTIONS

APRIL 1965

1. OHIO - Page 29 - Tornado deaths = 60 (vice 57)

JULY 1986

1. WEST VIRGINIA - Page 76 - Hail Damage; Property = ?, Crops = ?

REFERENCE NOTES

† Storm damage categories are from 1 to 9 as follows:

- 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

- * Miles instead of yards
- ** Yards instead of miles
- @ Includes heavy sleet storm
- # Freezing drizzle and freezing rain, commonly known as glaze
- ≠ Not received or incomplete
- o/c Under Estimated Damage, Property/Crops, indicates crop damage amount is included in the figure given

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.

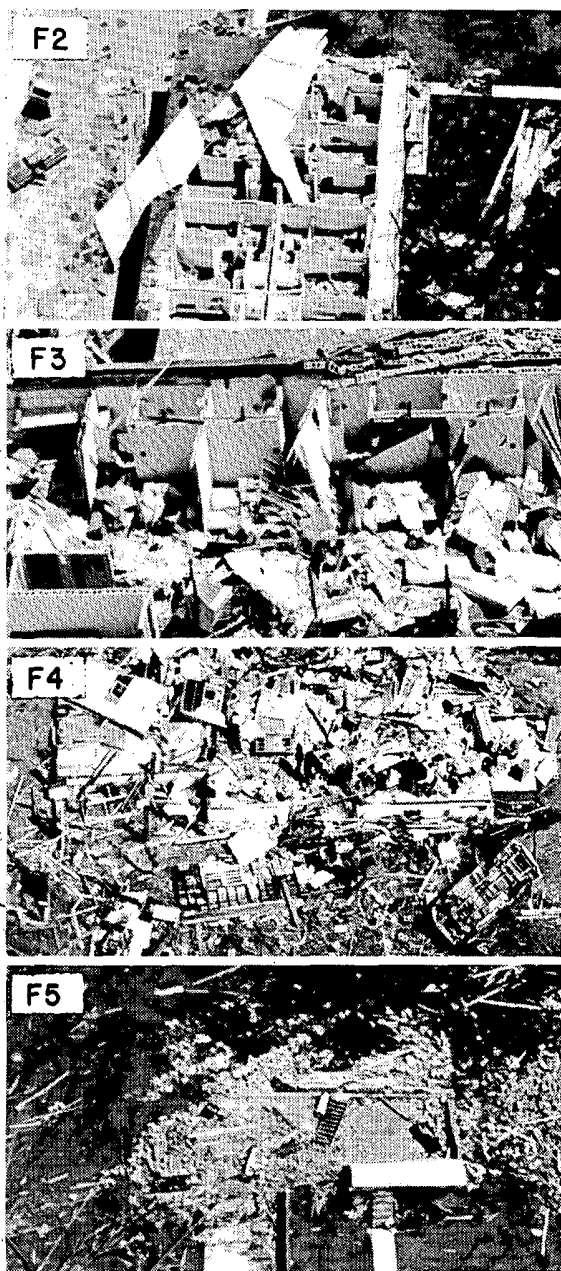
(F6-F12) (319 mph to Mach 1, the speed of sound):
The maximum wind speeds of tornadoes are not expected to reach the F6 wind speeds.

(F0+F1) *Weak Tornado*

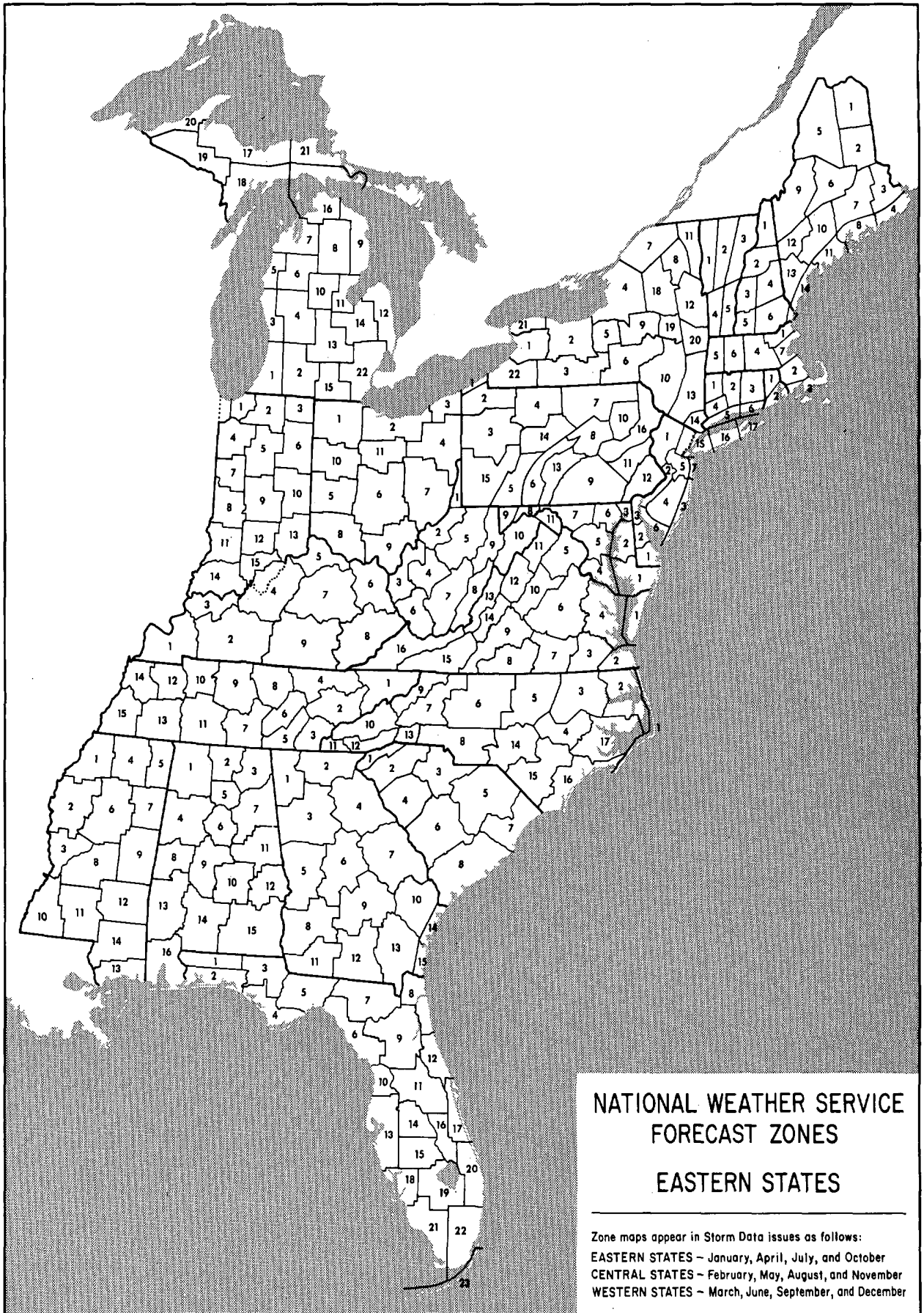
(F2+F3) *Strong Tornado*

(F4+F5) *Violent Tornado*

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



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