

WEATHER HISTORY FOR 21ST - 31ST

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November 21st:

1798

A 4-day storm was in progress in the northeastern U.S. The storm dropped 12 to 18 inches of snow on New York City and New Haven, CT, and as much as 3 feet in Maine and New Hampshire. The snowstorm ushered in a long and severe winter, in some places the ground remained covered with snow until the following May.

1922

An intense blizzard levels nearly a third of Maritime Telegraph and Telephone Company's utility poles, cutting off Cape Breton, Nova Scotia Canada

1924

Boston, MA. ended their longest period with no precipitation at 44 days.

1967

Excessive rains in southern California caused the most severe flooding and the most damaging mudslides since 1934. Downtown Los Angeles received 7.94 inches of rain, and 14 inches fell in the mountains.

1977

Arctic high pressure with an upper level trough brought record cold from the northern Rockies to the Pacific Northwest. Record low temperatures for the date included: Hardin, MT: -30°, Bozeman, MT: -27°, Broadus, MT: -26°, Boulder, MT: -25°, Butte, MT: -24°, Columbus/Hysham, MT: -23°, Wisdom, MT: -21°, Roundup, MT: -20°, Grass Range, MT: -20°, Billings, MT: -18° (high was only 5 above), Sheridan, WY: -17°, Miles City, MT: -17°, Kalispell, MT: -17°, Lander, WY: -14°: Tied, Rapid City, SD: -7°, Yakima, WA: 6°, Salt Lake City, UT: 7°, Olympia, WA: 11°and Seattle, WA: 21°.

In contrast, Brownsville, TX set a record high with 89°.

1979

The Upper Plains was hit with heavy snow through the 22nd as the storm raced northeast into Canada. Snowfall totals were in the 6 to 13 inch range with generally lesser amounts across northwest Iowa and southwest Minnesota. Sioux Falls, SD reported the highest storm total at 13 inches. Sioux Falls' 24-hour total through the 22nd of 11.8 inches is the heaviest 24-hour snow total in the month of November on record for the city. Moderate winds of 20 to 35 mph made travel difficult at times, but nowhere near as bad as a classic Dakota ground blizzard. Across the Rockies, some storm totals included: Wheatland, WY: 30 inches, Cheyenne, WY: 25.6 inches, Kimball, NE: 17 inches and 12.8 inches at Scottsbluff, NE.

On the west coast, Quillayute, WA set a record high with 60°.

1981

The United Kingdom's largest tornado outbreak occurred. 150 tornadoes broke out over England and Wales in just over five hours. Most of the tornadoes were very weak.

1984

Over 4 inches of rain fell in less than 4 hours making for a wet Thanksgiving at Palm Beach, FL. Extensive street and urban flooding occurred.

A few record lows were set from the Upper Lakes to the Mid-Atlantic including: Marquette, MI: -4°, Wilmington, DE: 19°, Jackson, KY: 20° and Wallops Island, VA: 22°.

1985

Hurricane Kate made landfall during the evening hours near Mexico Beach, FL with sustained winds near 95 mph. Wind gusts to 100 mph were reported at Cape San Blas, FL. This was the 6th land falling storm in the U.S. that year, a record and it was the latest and strongest known hurricane to hit the U.S.

Eight cities from the central Plains to the Pacific Northwest reported record low temperatures for the date including: Valentine, MT: -17°, Burns, OR: -9°, Boise, ID: -2°, Yakima, WA: 0°, Lincoln, NE: 3°-Tied, Quillayute, WA: 20°-Tied, Seattle, WA: 21°-Tied and Astoria, OR: 25°.

1987

Squalls in the Lower Great Lakes Region and the Upper Ohio Valley produced 14 inches of snow at Snowshoe, WV, and nearly 8 inches at Syracuse, NY.

Many cities in the eastern U.S. reported record low temperatures for the date including: Binghamton, NY: 8°, Houghton Lake, MI: 8°-Tied, Syracuse, NY: 9°, Worcester, MA: 10°, Milton, MA: 11°, Hartford, CT: 13°, Grand Rapids, MI: 14°, Avoca, PA: 14°-Tied, Providence, RI: 16°, Newark, NJ: 18°, Islip, NY: 18°, Bridgeport, CT: 18°, New York (Kennedy Airport), NY: 19°, Muskegon, MI: 19°-Tied, New York (LaGuardia Airport), PA: 20°, Jackson, KY: 20°-Tied and Pinson, AL: 21°.

Gale force winds lashed the Middle and Northern Atlantic Coast, and the strong northwesterly winds produced wind chill readings as cold as -30°. Winds gusting to 60 mph at Trumansburg, NY toppled a chimney onto a nearby truck.

Most of the buildings on the island of Chuuk in the Western Pacific were destroyed by an unusual tropical storm. Unusual in that tropical cyclones rarely are so intense that close to the equator.

1988

High winds accompanied rain and snow in the northeastern U.S. Caribou, ME received 8 inches of snow in 6 hours, and Fort Kent, ME was blanketed with a total of 14 inches of snow.

1989

The storm which produced thunderstorms and high winds in the northeastern U.S. the previous day, produced snow and high winds in New England, with blizzard conditions reported in Maine. Winds gusted to 58 mph at Augusta, ME and reached 55 mph at Boston, MA. Hurricane force winds were reported off the coast of Maine. Snowfall totals ranged up to 18 inches at Vanceboro, ME, with 17 inches at South Lincoln, VT. There were 35 storm related injuries in Maine.

Several cities from Texas to the Rockies reported record high temperatures for the date including: San Angelo, TX: 85°, Midland-Odessa, TX: 81°-Tied, Colorado Springs, CO: 73°, Redding, CA: 70°, Reno, NV: 66°, Cheyenne, WY: 65°, Lander, WY: 62°-Tied, Alamosa, CO: 61° and Casper, WY: 61°.

1992

The November 21st - 23rd tornado outbreak was the 3rd largest outbreak in recorded history and one of the longest continuous outbreaks ever recorded. There was no break in tornado activity from 1:30 pm on the 21st when the tornadoes started in Texas until 7:30am on the 23rd, when the last tornadoes lifted in North Carolina. On this date, severe thunderstorms spawned 6 tornadoes within 70 minutes in the Houston metro area in Texas. At one time, there were three on the ground in Harris County. The strongest, an F4, tracked 20 miles through the eastern suburbs of Houston destroying 200 homes and damaging 1,000 more. In total, 23 tornadoes struck Mississippi and Alabama. An F4 tornado killed 12 people on a 128-mile track through 7 Mississippi counties. The deadliest tornado of 1992, an F4 tornado killed 12 people on a 128 mile track through 7 counties in Mississippi, one of the bodies was blown a quarter mile into a tree.

1996

Brutal cold invaded Montana bringing record low temperatures for the date including: Havre, MT: -27°, Shelby, MT: -25°, Cut Bank, MT: -23°, Del Bonita, MT: -22° and Stanford, MT: -18°.

In contrast, Corpus Christi, TX set a record high with 91°.

1999

Forests across the east became tinderboxes, with up to 60,000 acres burned in the Appalachians. Moist air from the Pacific shifted farther north than usual, leaving the South and Southwest drier and warmer than normal. Crawfish farmers in Louisiana were feeling the effect as their ponds were drying up. Hunters also reported that waterfowl were bypassing dry central Louisiana in favor of coastal areas.

In contrast, the first significant snow of the season struck the Colorado Rockies. Snowfall totals included: Bailey, CO: 16 inches, Evergreen, CO: 13 inches, North Turkey Creek, Genesee, Morrison and Sedalia, CO: 12 inches, Conifer and Evergreen, CO: 11 inches, Louisville, CO: 10 inches, Brighton, Broomfield and Denver, CO: 9 inches and Arvada, Castle Rock and Eldorado Springs, CO with 8 inches.

A few cities in Texas reported record high temperatures for the date including: Houston, TX: 84°, Austin (Bergstrom), TX: 83° and Galveston, TX: 83°.

2000

A blinding snowstorm buried Vladivostok, Russia with as much as 5 feet of snow shutting everything down.

2002

An upper level ridge brought warm temperatures from the Rockies to the West Coast. Fresno reached a high of 81°, tying a record high and their latest 80 degree or better high temperature

on record with the same date in 1926. Other record highs for the date included: Santa Ana, CA: 90°, Los Angeles (LAX), CA: 87°, Hanford, CA: 77°, Idyllwild, CA: 76°, Redding, CA: 73°, Sacramento, CA: 71°, Cut Bank, MT: 67°, Choteau, MT: 66°, Shelby, MT: 64°, Mile City, MT: 60°, Spokane, WA: 56° and Pocatello, ID: 55°-Tied.

2004

On this date through the 22nd, up to 3 feet of snow blanketed Southern California's San Gabriel and San Bernardino mountains east of Los Angeles. Nearby desert areas were also whitened.

Gusty Mono Winds blew across the southern Sierra with gusts clocked as high as 93 mph. Numerous trees blew down near El Portal and Foresta and property damage occurred in Oakhurst and Ponderosa Basin.

2008

Waist-deep snow and treacherous driving conditions at Strathroy, Ontario Canada stranded dozens of motorists who are forced to hunker down for a night on the road. Between 20 and 28 inches of snow blew in off Lake Huron burying cars. The local squall generated 12 hours of whiteouts and drifts over three feet high.

November 22nd:

1641

An observer at Boston, MA recorded a "great tempest of wind and rain from the southeast all night, as fierce as a hurricane, and thereupon followed the highest tide which we have seen since our arrival here".

1720

New York City had an early severe cold snap. Doctor Colden wrote "my ink freezes as I write".

1957

On this date through the 22nd, extremely destructive Santa Ana winds blew from Oxnard to San Diego and inland across parts of southern California. The high winds produced a 28,000 acre brush fire on a 40-mile front west of Crystal Lake. People were ordered off the streets in some areas due to flying debris.

Strong storm pummeled Prince Rupert, British Columbia Canada with heavy rains and gale-force winds, and then was isolated as wind, water and mudslides combined to cut off road, air, marine and telephone services to the coastal city.

1965

Heavy storms drawing tropical moisture in the mountains and desert of southern California started on this day and ended on the 25th. Storm totals: 20 inches at Mt. San Gorgonio, 16 inches at Mt. San Jacinto, 9.59 inches at Cuyamaca, 6 to 9 inches at Banning-Cabezon, over 4 inches at Palm Springs, less than one inch near the Salton Sea. The one-day total was over 9 inches at Snow Creek. Roads and bridges washed out north and west of Palm Springs. Two people drowned attempting to cross the Whitewater River. Record flood levels were recorded at Tahquitz Creek. It was the largest flood on the Whitewater River since 1938.

1979

One last record from the 1979 winter storm: Cheyenne, WY's deepest snow cover on record was recorded on this day with a snow depth of 26 inches.

1983

A snowstorm dumped 2 to 6 inches of snow over a large part of northwest, southwest and central Iowa. In addition, freezing rain accompanied the snow in some locations. The result was extremely hazardous roads and highways, with a glaze of ice underneath the snow. Power lines were downed by the ice, and many rural communities lost power for hours. Portland, OR received their 25th straight day of rain.

Some locations out west reported record low temperatures for the date including: Ely, NV: -6°, Idyllwild, CA: 16°, Palomar Mountain, CA: 24°, Borrego Springs, CA: 36°, Downtown Los Angeles, CA: 41° and Los Angeles, (LAX), CA: 42°-Tied.

1984

A strong low pressure system developed east of Florida, and coupled with a high pressure to the northwest created a strong pressure gradient that led to gale force winds along the east coast.

As the low moved slowly north heavy rains of up to 7 inches fell over south Florida. Palm Beach, FL received 4 inches of rain in 4 hours. There was extensive coastal flooding and beach erosion with many structures damaged or destroyed. Fishing piers and seawalls were damaged or destroyed. Damage ran into the millions and was confined to the shore except where heavy rain in the south caused local flooding. A man was killed when he stepped on a downed power line.

1987

Many cities in the eastern U.S. reported record low temperatures for the date. Elkins, WV reported a low of 5°. Other record lows for the date included: Binghamton, NY: 12°, Milton, MA: 12°, Syracuse, NY: 13°, Avoca, PA: 15°-Tied, Georgetown, DE: 16°, Providence, RI: 16°-Tied, Bridgeport, CT: 18°, Newark, NJ: 19°, Islip, NY: 20°, New York (Kennedy Airport), NY: 20°, New York (LaGuardia), NY: 21°, Raleigh, NC: 23°-Tied, Wallops Island, VA: 24°-Tied and Cape Hatteras, NC: 28°. Further north, gale force winds continued along the Northern Atlantic Coast.

1988

Wet and windy weather prevailed across the western U.S., with heavy snow in some of the higher elevations. Winds gusted to 88 mph at Rollinsville, CO, 75 mph at Tillamook, OR and 62 mph at Vedauwoo, WY. Shelter Cove, CA was drenched with 4.37 inches of rain in 24 hours.

1989

Strong northerly winds produced squalls along the shore of Lake Michigan, with heavy snow in extreme southeastern Wisconsin. Milwaukee, WI received 9 inches of snow, and in Racine County there were more than 100 automobile accidents.

An area of low pressure moved off the east coast bringing the first snow of the season to the parts of the Mid-Atlantic. Beginning on this day ending on the 23rd, Philadelphia, PA recorded 4.6 inches of snow fell, one of their earliest fall snow storms that produced 4 inches or more of snow. Other local totals included: 3.8 inches at Baltimore, MD, 3.5 inches at Reagan National Airport in Washington, D.C., 2.2 inches at Dulles Airport at Sterling, VA, 2.2 inches at Williamsport, PA, 2 inches at Salisbury, MD, 2 inches at Avoca, PA and close to an inch at Harrisburg, PA.

Binghamton, NY set a record low with 10°.

1992

45 tornadoes touched down in the Tennessee and Ohio Valleys. Georgia was hard hit with two F4, one F3 and three F2 tornadoes that killed 6 people and injured 144. Indiana had a total of 15 tornadoes on this day to set a record for an outbreak in November and for the month of November. One, an F4 multiple-vortex type, cut a 22-mile path through extreme southeastern Indiana and northern Kentucky. This tornado debunked the myth that twisters don't cross rivers, as this devastating tornado crossed the Ohio River twice. Indiana had a total of 15 tornadoes on this day to set two state records, the largest November tornado outbreak and the most tornadoes in November. This tornado outbreak made a significant contribution to what was to become the biggest November ever for the U.S. in terms of number of tornadoes.

1993

A major, slow-moving snowstorm affected much of South Dakota from this date through the 27th producing prolific amounts of snow. The heaviest snow amounts in the 2 to 3 foot range occurred in northeast South Dakota and in the northern Black Hills. Storm total snowfall amounts included: 37.7 inches at Lead, 31.8 inches at Westport, 28 inches at Britton, and 25.3 inches at Aberdeen. The 25.3 inches at Aberdeen was a single storm snowfall record and it made this November the snowiest November on record in Aberdeen. Much of the eastern third of South Dakota was brought to a standstill on the 24th bringing an early start to the Thanksgiving Holiday.

The weight of the snow collapsed numerous structures in northeast South Dakota. Strong northwest winds and cold temperatures followed the storm plunging wind chill values to -50°. Snowfall across northwest Iowa and southwest Minnesota for the storm was generally 5 to 9 inches.

1996

A rare mesoscale supercell thunderstorm (for central California) spawned two tornadoes, an F0 and an F1 that struck the Lemoore Naval Air Station. This storm was part of a larger thunderstorm complex that also spawned an F1 tornado that touched down northeast of Merced and an F0 tornado that touched down northeast of Bakersfield. Hail as large as 2.5 inches in diameter also fell in association with the supercell that affected Lemoore Naval Air Station damaging vehicles.

A series of supercell thunderstorms erupted near Kingman, AZ. Four tornadoes were recorded with the largest being a half mile wide and touch down of 100 to 200 yards for nearly 20 minutes. It was estimated to be of F1 strength and caused significant damage.

1999

The first significant snowstorm of the year pounded Colorado with up to 20 inches of snow at Fairplay southwest of Denver and 9 inches in Denver. The snowstorm reduced visibilities, causing a massive 83 car pileup on I-70 west of Denver. Two people were killed and 30 were injured in the giant accident. The first blast of wintry weather followed unusually warm weather that had Denver

averaging 12 degrees above normal for the first 3 weeks of the month.

2001

Gusty winds blew across the mountains of Tulare and Kern County in California. Indian Wells Canyon clocked a 97 mph gust and in the Kern County deserts Inyokern and Mojave reported gusts to 81 mph. The strong winds damaged roofs, blew out windows and took away signs in California City.

2003

Record snow falls across the southern Yukon as a Pacific storm system moved inland. The weather station on the Klondike Highway recorded 8.7 inches of snow. Mayo Airport measured 8.3 inches, the greatest daily November snowfall since records began in 1926 and the fourth snowiest day ever. A few locations out west reported record low temperatures for the date including: Spokane, WA: -5°, Madera, CA: 27°, Merced, CA: 28°, Hanford, CA: 29° and Redding, CA: 29°-Tied.

St. Paul, AK tied their record high with 43°.

2005

A thick fog hung over parts of Vancouver, British Columbia Canada in the Fraser Valley and limited the day's high temperature to 42°. However, on the summit of nearby Grouse Mountain, the temperature above the surface inversion soared to 64°.

Further south a few locations reported record highs including: Redding, CA: 74°, Hanford, CA: 72°, Merced, CA: 72°, Madera, CA: 71° and Juneau, AK: 52°.

2007

Unseasonably mild temperatures prevailed across Alaska. Seldovia reported a high of 52° and Anchorage & Fairbanks enjoyed afternoon highs of 40°. Homer & Bettles reported record highs of 49° and 37° respectively.

November 23rd:

1909

Rattlesnake Creek was deluged with 7.17 inches of rain in 24 hours to establish a record for the state of Idaho.

1931

A ridge across extending from the Midwest to the east and a trough out west spelled record temperatures. Grand Rapids, MI hit 70, their warmest on record for so late in the season. Other daily record highs included: Charleston, WV: 86°, Huntington, WV: 78°, Boston, MA: 77°, Tupelo, MS: 76°, Evansville, IN: 76°, Memphis, TN: 76°, Little Rock, AR: 76°-Tied, St. Louis, MO: 75°, Cincinnati, OH: 75°, Cleveland, OH: 75°, Knoxville, TN: 75°, Nashville, TN: 75°, Syracuse, NY: 75°, Hartford, CT: 75°, Akron, OH: 74°, Youngstown, OH: 74°, Newark, NJ: 74°, Erie, PA: 74°, Rochester, NY: 74°, Worcester, MA: 74°, Columbia, MO: 73°, Mansfield, OH: 73°, Milton, MA: 73°, Concord, NH: 73°, Springfield, IL: 72°, Indianapolis, IN: 72°, Columbus, OH: 72°, Dayton, OH: 72°, Beckley, WV: 72°, Allentown, PA: 72°, Avoca, PA: 72°, Pittsburgh, PA: 72°, Albany, NY: 72°, New York (Central Park), NY: 72°, Providence, RI: 72°, Philadelphia, PA: 72°-Tied, Peoria, IL: 71°, South Bend, IN: 71°, Toledo, OH: 71°, Harrisburg, PA: 71°, Grand Rapids, MI: 70°, Chicago, IL: 69°, Detroit, MI: 69°, Moline, IL: 68°, Flint, MI: 68°, Lansing, MI: 67°, Des Moines, IA: 66°, Williamsport, PA: 66°, Rockford, IL: 65°, Green Bay, WI: 65°, Milwaukee, WI: 65°, Alpena, MI: 65°, Burlington, VT: 65°, Dubuque, IA: 64°, Houghton Lake, MI: 64°, Madison, WI: 63°, La Crosse, WI: 61°, Ste. St. Marie, MI: 59° and Rochester, MN: 57°.

Meanwhile, a chilly airmass settled across the west. It was 25° at Riverside, CA their lowest temperature on record for November. Bakersfield, CA dipped to 22 degrees, tying their record low for the month of November (11/23/1931). Other daily record lows included: Lander, WY: -10°, Missoula, MT: -8°, Elko, NV: -7°, Flagstaff, AZ: -4°, Kalispell, MT: -1°, Winnemucca, NV: 0°, Denver, CO: 5°, Grand Junction, CO: 7°, Winslow, AZ: 7°, Albuquerque, NM: 10°, Medford, OR: 19°, Salem, OR: 21°, Bakersfield, CA: 22°, Santa Maria, CA: 25°, Santa Ana, CA: 27°, Phoenix, AZ: 27°, Astoria, OR: 28°, Palm Springs, CA: 29°, Yuma, AZ: 31°, San Diego, CA: 38°.

1943

Northern New Hampshire was in the grips of a record snowstorm that left a total of 55 inches at Berlin, 56 inches at Randolph and 51 inches at Pinkham Notch with many other areas receiving over 40 inches. The 56-inch total at Randolph in Coos County established a 24-hour snowfall record for the state. In Maine, Middle Dam received a record 35 inches of snow in 24 hours.

1956

It was a mild day at Yellowknife, Northwest Territories as the high reached a record 46°.

1960

The Tiros II weather satellite was launched. It recorded 25,574 photographs during its 10 month

lifespan.

1974

Bismarck, ND was in the middle of a 5-day snowstorm during which 28.3 inches fell, the greatest amount on record.

1977

European weather satellite Meteostat I was launched.

1982

Hurricane Iwa intensified as she moved north-northeast towards the northern Hawaiian Islands with maximum sustained winds of 90 mph.

1983

A 24-hour snowfall record for Duluth, MN was broken with 16.9 inches. 19.7 inches fell during the entire storm, also a record.

Ahead of the storm, high pressure brought record high temperatures from parts of the Great Lakes to the Tennessee Valley including: Montgomery, AL: 81°, Jackson, KY: 74°, Bristol, TN: 73°, Fort Wayne, IN: 65°-Tied and Marquette, MI: 51°.

1987

Rain and gale force winds prevailed along the Northern Pacific coast. Quillayute, WA received 1.57 inches of rain in 24 hours, including just under an inch in 6 hours. Heavy snow fell over northern Oregon and the Cascade Mountains of Washington State.

Dense fog with visibility reported at times less than 10 feet occurred in the Inland Empire. A number of multi-vehicle crashes occurred on I-215 between Temecula and Sun City, CA involving 42 vehicles. One was killed and 19 were injured.

1988

Tropical Storm Keith moved across the Florida Peninsula, entering near Sarasota after midnight and exiting just north of Melbourne late in the morning. Most of the convection had been sheared off before the storm crossed Florida. Most of the weather associated with Keith was to the north of the track. Maximum rainfall was 11 inches at Largo. Most rainfall totals were 4 to 7 inches to the north of the storm track and under one inch to the south of the storm track. A storm surge of nearly 6 feet maximum and 3 to 4 feet generally accompanied the storm on the Florida west coast south of the track as far south as Naples. Damage was near \$3 million dollars, mostly due to the storm surge. In Lee County damage was estimated at \$1.5 million dollars. Two tornadoes touched down in Pinellas County just before landfall, damaging hangar doors at St. Petersburg Airport.

Low pressure crossing the Great Basin brought wintry weather to parts of the western U.S. Up to a foot of snow blanketed Yellowstone Park and winds gusted to 95 mph near Reno, NV and 70 mph at Casper, WY. Up to 7 inches of rain was reported in the Grass Valley and Nevada City area of California. Paradise, CA was soaked with 5.37 inches of rain in 24 hours.

1989

Low pressure tracking across the Carolinas brought heavy rain to parts of the Southern Atlantic Coast Region for Thanksgiving Day, and blanketed the Mid-Atlantic Coast and southern New England with heavy snow. The storm produced up to 9 inches of snow over Long Island, NY, up to 14 inches over Cape Cod at Yarmouth, MA, 12 inches at Chatham, MA and 4 inches at Boston, MA. Records for this date include 5.3 inches at Newark, NJ and 4.7 inches at New York City; where it was the first white Thanksgiving in 51 years. The 8.0 inch total at Providence, RI was a record for any given day in November, and the 6.5 inch total at Strasburg, CT was a record for the month of November.

Borrego Springs, CA and Miami, FL set record highs with 88° and 87° respectively.

1991

A winter storm dropped 6 to 12 inches of snow across parts of Iowa, Minnesota and Wisconsin. La Crosse, WI set a new record for 24-hour snowfall with 13 inches. This storm brought the monthly total to 28.2 inches, also a record.

A few locations on the east coast reported record high temperatures including: Wallops Island, VA: 69°, New York (LaGuardia), NY: 63°-Tied and Islip, NY: 61°.

1992

As school buses hit the road for their morning pickups in the area around Elizabeth City, NC, the drivers were unaware that a series of tornadoes was approaching. Just before 7:30 am, one busload of students watched from a ditch as their bus was blown 75 yards by a tornado. Fortunately, the students and driver were unharmed. Overall, two F3 tornadoes struck in North Carolina resulting in 2 deaths and 59 injuries. This was the last day of the 3-day outbreak in which 93 tornadoes touched down claiming 25 lives.

Record highs were set from North Carolina into southern New England including: Norfolk, VA: 81°, Wilmington, NC: 81°-Tied, Wallops Island, VA: 77°, Cape Hatteras, NC: 76°, Atlantic City, NJ: 74°, New York (Kennedy Airport), NY: 71°, Islip, NY: 70°, New York (LaGuardia), NY: 70°, Bridgeport, CT: 67° and Williamsport, PA: 66°-Tied.

Out west, a pre-Thanksgiving blizzard struck the Rockies from with wind gusts to 40 mph caused near white-out conditions. The strong winds drove snow into drifts of more than 4 feet in places. Flights were cancelled at the airport in Denver. Snowfall totals included: 19 inches at Littleton, CO, 16 inches at Castel Rock, CO, Story, MT: 14 inches, 12 inches at Conifer, Morrison & Wheat Ridge, CO, 9 inches at Brighton, CO, 8 inches at Aurora, CO, 7 inches at Sheridan, WY, 6 inches at Parker, CO & Burgess Junction, MT and 5 inches at Red Lodge, MT.

45 inches of snow fell in 24 hours at Alta, UT to set their all-time record for snowfall in a 24-hour period breaking their previous record of 38 inches set on 12/1-2, 1982..

1993

Severe flooding occurred through the Guantanamo Province in Cuba as an average of 6.9 inches of rain fell over the region. Flooding resulted in 22 deaths and left 6,500 people homeless. Thousands of acres of vegetable crops were destroyed.

1999

A ridge of high pressure across the east brought scattered areas of record high temperatures from the Ohio Valley to the East Coast including: Jackson, KY: 75°, Oak Ridge, TN: 74°, Indianapolis, IN: 73°, Toledo, OH: 71°-Tied, Fort Wayne, IN: 70°, Portland, ME: 70°, Paducah, KY: 69°, Muskegon, MI: 67° and Lansing, MI: 67°-Tied.

2001

An F2 tornado in Hunt County, Arkansas destroyed three chicken houses that contained 120,000 chickens near the town of Hunt. Most of the chickens were killed. Tragically, the tornado also resulted in death of a woman in a mobile home.

Marquette, MI set a record high with 54°.

2002

Extreme cold covered northern Sweden. The low temperature in the town of Nikkaluokta dropped to -22°, over 30 degrees below normal.

2003

A trough extending from the Rockies to the West Coast brought record low temperatures for the date including: Pueblo, CO: -6°, Denver, CO: -3°, Grand Junction, CO: 4°, Hanford, CA: 24°, Madera, CA: 26°, Stockton, CA: 26°, Merced, CA: 27° and Eureka, CA: 30°.

Paducah, KY hit 70°, setting record high temperature for the date while Buffalo, NY tied their afternoon high with 70°.

November 24th:

1812

Southwesterly winds of hurricane force sank ships and unroofed buildings at Philadelphia, PA and New York City.

1863

The Union Army scored a major Civil War victory in the "Battle above the Clouds" on Lookout Mountain near Chattanooga, TN. The top of Lookout Mountain became obscured in fog and aided the Union troops as Confederate lookouts could not see the position of the enemy.

1931

A ridge of high pressure across the east and a trough out west brought a variety of record temperatures across the country. Record highs across the east included: Charleston, WV: 87°, Montgomery, AL: 79°-Tied, Athens, GA: 77°, Huntington, WV: 76°, Roanoke, VA: 75°, Tupelo, MS: 74°, Nashville, TN: 74°, Washington, D.C.: 73°, Asheville, NC: 73°, Boston, MA: 72°, Beckley, WV: 71°, Worcester, MA: 70°, Syracuse, NY: 70°, Lexington, KY: 70, Cincinnati, OH: 70, Cleveland, OH: 70, Allentown, PA: 69, Avoca, PA: 69°, Erie, PA: 69°, Harrisburg, PA: 69°, Milton, MA: 69°, Providence, RI: 69°, Hartford, CT: 69°, Pittsburgh, PA: 69°, Newark, NJ: 69°, Elkins, WV: 69°, Youngstown, OH: 69°, Concord, NH: 68°, Albany, NY: 68°, Buffalo, NY: 68°, New York (Central Park), NY: 68°, Philadelphia, PA: 68°, Akron, OH: 68°, Columbus, OH: 68°, Dayton, OH: 68°, Chicago, IL: 67°, Springfield, IL: 67°, Williamsport, PA: 66°, Wilmington, DE: 66°, Toledo, OH: 66°, Grand Rapids, MI: 66°, Peoria, IL: 66°, Mansfield, OH: 65°, Burlington, VT: 65°, Rockford, IL: 65°, South Bend, IN: 65°, Portland, ME: 64°, Flint, MI: 64°, Lansing, MI: 64°, Moline, IL: 64°, Houghton Lake, MI: 63°, Alpena, MI: 62° and Ste. St. Marie, MI: 62°. Chicago, IL had a morning low of 30°, their latest first freeze on record.

Out west, locations reporting record low temperatures included: Missoula, MT: -8°, Winslow, AZ: 2°, Grand Junction, CO: 4°, Albuquerque, NM: 5°, Salt Lake City, UT: 9°, Boise, ID: 13°-Tied, Medford, OR: 21°-Tied, Bakersfield, CA: 22°, Santa Maria, CA: 27°, Phoenix, AZ: 28° and San Diego, CA: 38°-Tied.

1938

The low temperature of 15° at Las Vegas, NV set the all-time coldest temperature in November.

1950

A major early season winter storm moved across the Great Lakes into eastern Canada, producing blizzard conditions and drawing extremely cold arctic air southward. Toronto, Ontario Canada reported a foot while Jump River, WI picked up 10 inches. The temperature at Chicago, IL dipped to -2° to equal their record for the month established on the 11/29/1872. On the first of the month that year Chicago established a record high for November with 81°. Fort Wayne, IN experienced their coldest November day, with an all-time record cold November high of 9° and an all-time November record low of -1°. Wichita Falls, TX set their November record low temperature on this date with 14°.

High temperatures of 6° at Springfield, IL and 8° at Peoria, IL both established the coldest November high temperature on record.

Locations reporting record low temperatures for the date included: Houghton Lake, MI: -13°, Grand Rapids, MI: -9°, Muskegon, MI: -8°, Green Bay, WI: -7°, Madison, WI: -6°, Rockford, IL: -6°, South Bend, IN: -6°, Milwaukee, WI: -5°, Dubuque, IA: -4°, Moline, IL: -2°, Springfield, IL: -2°, Paducah, KY: -2°, Peoria, IL: -1°, Evansville, IN: -1°, Indianapolis, IN: -1°, Lansing, MI: -1°: Tied, Alpena, MI: 0°, Des Moines, IA: 1°, Marquette, MI: 1°, Goodland, KS: 1°, Ste. St. Marie, MI: 3°, Dayton, OH: 3°, St. Louis, MO: 3°, Toledo, OH: 3°, Lexington, KY: 3°, Nashville, TN: 3°, Columbia, MO: 4°, Louisville, KY: 4°, Flint, MI: 5°, Cincinnati, OH: 5°, Mansfield, OH: 5°, Cleveland, OH: 7°, Springfield, MO: 7°, Detroit, MI: 7°, Akron, OH: 7°, Columbus, OH: 8°, Youngstown, OH: 8°, Asheville, NC: 8°, Kansas City, MO: 9°, Charleston, WV: 9°, Huntington, WV: 9°, Bristol, TN: 9°, Oak Ridge, TN: 10°, Amarillo, TX: 11°, Chattanooga, TN: 11°, Pittsburgh, PA: 11°, Wichita, KS: 11°-Tied, Knoxville, TN: 12°, Memphis, TN: 14°, Tulsa, OK: 14°, Atlanta, GA: 14°, Oklahoma City, OK: 15°, Birmingham, AL: 15°, Fort Smith, AR: 16°, Tupelo, MS: 16°, Little Rock, AR: 17°, Huntsville, AL: 17°, Athens, GA: 18°, Macon, GA: 19°, Montgomery, AL: 20°, Columbus, GA: 20°, Greenville-Spartanburg, SC: 20°-Tied, San Angelo, TX: 21°, Jackson, MS: 21°, Dallas (DFW), TX: 22°, Dallas, TX: 22°, Meridian, MS: 22°-Tied, Augusta, GA: 23°, Waco, TX: 25°-Tied, Shreveport, LA: 27°, Pensacola, FL: 28°, San Antonio, TX: 29°, Mobile, AL: 29°, Baton Rouge, LA: 29°-Tied and Lake Charles, LA: 31°.

1970

Strong Chinook winds struck the Colorado Rockies. The National Center for Atmospheric Research at Boulder reported a wind gust to 97 mph while downtown Boulder reported a peak gust to 69 mph. Some minor damage resulted. Record high temperatures followed the next day.

1971

Snowfall occurred in the Baltimore-Washington area as Washington's Dulles Airport reported 1.4 inches and Baltimore, MD received an inch snarling holiday traffic.

1981

Typhoon Irma became the worst typhoon in 10 years to hit the Philippines. 236 people died and hundreds of thousands were left homeless.

1982

Hurricane Iwa lashed the Hawaiian Islands of Niihau, Kauai, and Oahu with sustained winds of 90 mph and high surf. Winds gusting to 120 mph caused extensive coastal damage. Honolulu reported a gust of 81 mph. Total damage was estimated at \$250 million making this the most damaging storm of record up to this time. The peak storm surge on the south shore was 6 to 8 feet. Iwa was the first hurricane to strike Hawaii since Dot hit the islands in August 1959.

1983

The 24 hour snowfall record at Duluth, MN was broken with 16.5 inches and a storm total of 19.7 inches. This broke the old record of 15.7 inches, which occurred on 11/16-17/1968.

1985

A slow moving area of low pressure drawing moisture from Hawaii started on this day and ended on the 26th across southern California. The storm dropped 2 to 4 inches of rain. Numerous areas were flooded and power outages were common. Especially hard hit was Mission Valley.

Many locations from the Pacific Northwest to the Plains reported record low temperatures for the date including: Grand Forks, ND: -28°, Bismarck, ND: -26°, Glasgow, MT: -19°, Aberdeen, SD: -16°, Huron, SD: -15°, Kalispell, MT: -13°, Yakima, WA: -11°, Pendleton, OR: -11°, Sheridan, WY: -11°, Spokane, WA: -9°, Sioux Falls, SD: -9°:Tied, Valentine, NE: -7°, Billings, MT: -2°, Rapid City, SD: -2°, Olympia, WA: 0°, Lewiston, ID: 1°, Boise, ID: 5°, Denver, CO: 7°, Quillayute, WA: 9°,

Salem, OR: 11°, Portland, OR: 13°, Seattle, WA: 16° and Astoria, OR: 19°.

1987

Showers and thunderstorms produced heavy rain in southern Missouri, southeast Kansas and northeastern Oklahoma. Flooding was reported in Greene County of southwestern Missouri. Springfield, MO was drenched with more than 6 inches of rain.

Thunderstorms over southern Texas produced more than 8 inches of rain in Caldwell and Hayes County, and thunderstorms over south central Oklahoma produced one inch hail at Temple twice within an hour.

1988

Low pressure brought heavy snow and high winds to the Northern and Central Rockies. Snowfall totals in Colorado ranged up to 40 inches at Wolf Creek Pass, with 27 inches falling in 24 hours. Telluride received 32 inches of snow, and winds atop Mines Peak gusted to 95 mph.

1989

Mother Nature completed a one-two punch across the northeastern U.S., as record cold temperatures followed in the wake of record snows. Many cities reported record low temperatures for the date. Morning lows of 1° at Hartford, CT, 3° at Portland, ME, and 6° at Providence, RI, were records for November. Houlton, ME was the cold spot in the nation with a morning low of -14°. Other locations reporting record lows included:

Concord, NH: -5°, Caribou, ME: -1°, Worcester, MA: 6°, Sterling (Dulles Airport), VA: 9°, Atlantic City, NJ: 11°, Islip, NY: 11°, Bridgeport, CT: 17°, Baltimore, MD: 17°-Tied, Allentown, PA: 17°-Tied, Newark, NJ: 20°, Jackson, KY: 20°, Wallops Island, VA: 23°-Tied and Cape Hatteras, NC: 29°-Tied.

1992

A major winter storm was in progress across the Texas Panhandle, western Oklahoma, and western Kansas. Near blizzard conditions prevailed that contributed to a massive 200 car pile up on Interstate 40 in Amarillo, TX. All traffic was brought to a virtual standstill in the Texas and Oklahoma Panhandles. 19 inches of snow with drifts over 6 feet was reported at Laverne, OK. Heavy snow and blizzard conditions occurred across a large area of southwest Kansas. Snowfall amounts ranged from 17 inches at Liberal to 15 inches at Garden City and Dodge City, KS. This snow began a period that marked the snowiest winter on record for Dodge City. Most roads and highways in the Garden City, Dodge City, Meade, Greensburg, Coldwater, and Liberal, KS areas were closed with snowdrifts of 2 to 5 feet. Snow drifts as high as 15 feet were reported at Hugoton, KS. Widespread visibilities of a quarter of a mile and less were also reported from the early afternoon through early the next morning. There were two fatalities from the storm. Estimates from area farmers and feed lot owners indicated that as many as 5,000 head of cattle may have perished during the storm.

Behind the storm, Pocatello, ID reported a record low of -6°.

1993

Bismarck, ND was in the middle of a 5 day snowstorm, over which time 28.3 inches of snow fell on the city, their greatest snowstorm on record.

Behind the storm many locations reported record low temperatures for the date including: Casper, WY: -19°, Cheyenne, WY: -16°, Kalispell, MT: -14°, Sheridan, WY: -14°, Great Falls, MT: -13°, Burns, OR: -12°, Billings, MT: -11°, Denver, CO: -8°,

Pocatello, ID: -7°, Pueblo, CO: -7°, Rapid City, SD: -5°, Goodland, KS: -1°, Boise, ID: 0°, Medford, OR: 17° and Eureka, CA: 31°.

1999

A rare snowfall affected northern Spain where some mountain villages were isolated. Snow was reported as far south as Barcelona.

Borrego Springs, CA reported a record low of 37°.

2002

A winter storm across the northern Rockies beginning the previous day produced over a foot in some areas. Snowfall totals included: Burgess Junction, MT: 15 inches, Dayton, MT: 11 inches, Story, MT: 10 inches and Sheridan, WY: 7 inches.

November 25th:

1784

A great windstorm at Bennington, VT and the "Violent Southeast Storm" at Portsmouth, NH seemed to be an analog of a similar storm of 1950. Portsmouth had a very high tide and flooding.

1918

Southern California had its worst windstorm in 40 years as wind gusts at Mt. Wilson reached 96 mph.

1926

An F4 tornado killed 23 people and injured 90 in Faulkner and Cleburne Counties in Arkansas. The tornado was on the ground for 35 miles, including a swath through Heber Springs, AR. Another tornado struck Belleville and Portland in Arkansas killing 53 people.

1950

The "Great Appalachian Storm", one of the most vicious ever to strike the Northeast and Mid Atlantic, dumped 57 inches of snow at Pickens, WV and 36 inches of snow in portions of Ohio. Over the Northeast, this storm was the greatest non-tropical windstorm ever. A 108 mph wind gust was recorded at Newark, NJ, 100 mph at Hartford, CT and 160 mph at Mount Washington, NH. Sustained winds of 72 mph with a peak gust of 110 mph occurred at Concord, NH. Allentown, PA reported a wind gust of 88 mph and Central Park in New York City reported a wind gust to 70 mph. The storm resulted in extreme damage to Southern New Jersey, particularly along Delaware Bay, and caused the highest tide of record to that time, 8.8 feet above mean sea level being recorded at Greenwich Piers, equal to the estimated height during the October 1878 hurricane. Both storms produced heights near the 9.1 feet above mean sea level that the Intermediate Regional Tidal Flood or the 100 year flood, would cause. The fishing village of Bay Side was practically washed out with damages estimated at \$50,000. Waves from 12-18 feet high were reported in the East Point, NJ, area. At the Philadelphia tide gauge located on the Delaware River, the tide rose to a record height of 10.8 feet above mean lower low water. Severe tidal flooding begins at 10.2 feet. Very heavy rains also fell on the east side of the storm. Slide Mountain, NY received 7.78 inches of rain. The western slopes were buried under heavy snow. The storm produced record snowfall totals of 27.7 inches at Pittsburgh PA, and 36.3 inches at Steubenville OH. The storm caused \$15 million dollars in damage and resulted in 160 deaths.

At Columbus, OH, record low temperature of 5° greeted fans heading for the Michigan-Ohio State college football game. But this was no ordinary tilt between the conference rivals. Played under heavy, blowing snow, it became known as the "Blizzard Bowl".

On the backside of this storm, extreme cold occurred in the Deep South. Birmingham, AL recorded a low of 5°. Other record cold reading included -1° on Sand Mountain and -2° at Valley Head, AL. It was the first time sub zero readings had occurred in North Alabama in November. The bitter cold was accompanied by 2 inches of snow across the northern part of the state.

Locations reporting their coldest November temperature on record included: Neillsville, WI: -16°, Muskegon, MI: -14°(beat the previous record by 29 degrees) and Grand Rapids, MI: -10°. Other daily record low temperatures included: Houghton Lake, MI: -14°, Madison, WI: -8°, Green Bay, WI: -7°, South Bend, IN: -7°, Rockford, IL: -4°, Evansville, IN: -3°, Lexington, KY: -3°, Paducah, KY: -3°, Indianapolis, IN: -2°, Lansing, MI: -2°, Peoria, IL: -1°, Fort Wayne, IN: -1°, Alpena, MI: -1°, Louisville, KY: -1°, Nashville, TN: -1°, Waterloo, IA: 0°, Milwaukee, WI: 0°, Chicago, IL: 0°, Springfield, IL: 0°, Cincinnati, OH: 0°, Oak Ridge, TN: 0°, Beckley, WV: 1°, Huntsville, AL: 1°, Asheville, NC: 1°, Moline, IL: 3°, Dayton, OH: 3°, Atlanta, GA: 3°, St. Louis, MO: 4°, Elkins, WV: 4°, Chattanooga, TN: 4°, Columbia, MO: 5°, Columbus, OH: 5°, Mansfield, OH: 5°, Bristol, TN: 5°, Knoxville, TN: 5°, Youngstown, OH: 6°, Charleston, WV: 6°, Huntington, WV: 7°, Athens, GA: 7°, Pittsburgh, PA: 7°, Tupelo, MS: 8°, Akron, OH: 8°, Toledo, OH: 8°, Springfield, MO: 9°, Flint, MI: 9°, Memphis, TN: 9°, Roanoke, VA: 9°, Detroit, MI: 10°, Augusta, GA: 11°, Greenville-Spartanburg, SC: 11°, Lynchburg, VA: 11°, Montgomery, AL: 13°, Greensboro, NC: 13°, Charlotte, NC: 14°, Savannah, GA: 15°, Charleston, SC: 15°, Cleveland, OH: 15°-Tied, Meridian, MS: 16°, Macon, GA: 16°, Columbia, SC: 16°, Raleigh, NC: 16°, Harrisburg, PA: 16°, Tulsa, OK: 17°, Fort Smith, AR: 17°, Jackson, MS: 18°, Little Rock, AR: 18°, Richmond, VA: 18°, Wichita, KS: 19°, Oklahoma City, OK: 20°, Tallahassee, FL: 20°, Wilmington, NC: 20°, Washington, D.C.: 21°, Mobile, AL: 22°, Pensacola, FL: 22°, Norfolk, VA: 22°, Philadelphia, PA: 22°-Tied, San Angelo, TX: 23°, Shreveport, LA: 23°, Jacksonville, FL: 23°, Gainesville, FL: 23°-Tied, Austin (Bergstrom), TX: 25°, Beaumont-Port Arthur, TX: 25°, San Antonio, TX: 25°, Wichita Falls, TX: 25°-Tied, Dallas (DFW), TX: 26°, Cape Hatteras, NC: 26°, Lake Charles, LA: 27°, Daytona, Beach, FL: 28°, Houston, TX: 29°, Victoria, TX: 29°, Orlando, FL: 31°, Del Rio, TX: 31°-Tied, Corpus Christi, TX: 36°, Tampa, FL: 36°, Vero Beach, FL: 37°, Galveston, TX: 38° and Fort Myers, FL: 39°.

1952

A deep upper level trough extending from the Rockies to the west coast bringing record cold to some areas. Needles, CA recorded a low temperature of 30° which tied for the coldest November reading on record. Other daily record lows included: Alamosa, CO: -21°, Denver, CO: -7°, Casper, WY: -5°, Cheyenne, WY: -3°, Pocatello, ID: -1°, Ely, NV: -1°, Winslow, AZ: 0°, Colorado Springs, CO: 3°, Goodland, KS: 7°, Reno, NV: 9°, Clayton, NM: 9°, Albuquerque, NM: 13°, Eugene, OR: 18°, Salem, OR: 18°, Medford, OR: 19°, Portland, OR: 25°, Sacramento, CA: 28°, Stockton, CA: 29°, San Francisco (Airport), CA: 36° and Long Beach, CA: 42°.

An early season winter storm brought snow to the upper Plains. Rochester, MN checked in with 10.6 inches.

1958

Strong pre-frontal Chinook winds struck the foothills in Colorado. A wind gust of 100 mph was reported northwest of Denver and a gust of 88 mph was reported at Rocky Flats south of Boulder. The windstorm caused considerable structural damage to residential sections in parts of Denver.

1970

Arctic high pressure brought record cold to the southeast. The temperature at Tallahassee, FL dipped to a record low of 13°, following a high of 40° the previous day. The mercury then reached 67° on the 26th, and highs were in the 70s the rest of the month. Locations reporting daily record lows included: Lynchburg, VA: 8°, Macon, GA: 10°, Greensboro, NC: 10°, Raleigh, NC: 11°, Columbia, SC: 12°, Charlotte, NC: 13°, Tallahassee, FL: 13°, Cleveland, OH: 14°, Richmond, VA: 14°, Sterling (Dulles Airport), VA: 15°, Savannah, GA: 15°-Tied, Washington, D.C.: 18°, Wilmington, DE: 18°, Wilmington, NC: 20°-Tied, Jacksonville, FL: 21°, Tampa, FL: 23° (broke previous record by 13 degrees), Wallops Island, VA: 23°, New Orleans, LA: 24°, Orlando, FL: 30°, Vero Beach, FL: 31°, Del Rio, TX: 31°-Tied, Fort Myers, FL: 34°, Miami, FL: 40° and Key West, FL: 50°.

1971

A big Thanksgiving snowstorm dumped 1 to 2 feet of snow over interior sections of the Mid Atlantic and the Northeast. The Wilkes-Barre Scranton area in Pennsylvania had 20.5 inches of snow to set a new all-time 24 hour snowfall record. Albany, NY was buried under 22.5 inches for a new November and early season record as well as the 5th heaviest snowfall on record. Cobleskill, NY received 26 inches. 10 to 20 inches of snow fell inland areas of Massachusetts with coastal flooding and damage.

1983

The "Great Thanksgiving Weekend Blizzard" hit Denver, CO. The storm produced 21.5 inches of snow in 37 hours, closing Stapleton Airport for 24 hours. The snow and wind closed interstate highways around Denver. Visibility at Limon, CO was down to zero for 24 hours. Laramie, WY recorded its greatest daily snowfall amount for November when 9.3 inches fell on the city. It was the beginning of 5 days with snow that would total 21 inches from the 25th through the 29th.

1985

Upper level low pressure over western Canada and a trough brought record low temperatures from the northern Rockies to the Pacific Northwest including: Great Falls, MT: -21°, Glasgow, MT: -20°, Duluth, MN: -16°, Helena, MT: -15°, Billings, MT: -11°, Sheridan, WY: -9°, Yakima, WA: -7°, Burns, OR: -5°, Marquette, MI: -4°, Spokane, WA: -3°, Kalispell, MT: -3°, Rapid City, SD: -2°, Boise, ID: 3°, Pendleton, OR: 4°, Lewiston, ID: 6°, Salem, OR: 12°, Seattle, WA: 18°, Portland, OR: 20° and Astoria, OR: 25°.

1987

An early morning thunderstorm in southeastern Texas produced high winds which rolled a mobile home east of Bay City killing 2 of the 4 occupants. Thunderstorms produced locally heavy rains in central and eastern Texas, with 9 inches reported at Huntsville, and 8.5 inches at Wimberly.

1988

Thunderstorms produced severe weather in Arkansas, eastern Oklahoma and northwest Texas during the day and into the night. Thunderstorms in Texas produced softball size hail at Alba, and wind gusts to 80 mph at Krum. Hail and high winds caused nearly \$5 million dollars damage at Kaufman, TX, and strong downburst winds derailed 28 freight cars at Fruitvale, TX.

1989

A strong Pacific storm dumped 1 to 3 feet of snow on higher elevations of the Sierra Nevada Range of California and Nevada. Snowfall totals in California ranged up to 38 inches at Donner Summit, with 30 inches at the Sierra Ski Ranch. The storm also produced heavy snow in Oregon, with 23 inches reported at Santiam Pass. Another storm crossing the Central Rockies produced 12 to 18 inches of snow in the northern and central mountains of Colorado.

Three cities across the east reported record low temperatures for the date including: Atlantic City, NJ: 16°, Allentown, PA: 16°-Tied and Islip, NY: 18°.

1993

A storm system brought wintry weather from the central Plains to the upper Midwest. Heavy snow fell over portions of northwest, north-central and central Wisconsin with amounts ranging from 6 to 13 inches. Snow covered roads led to multiple accidents. Browning, WI reported 13 inches and Austin, MN had 2.5 inches liquid equivalent, their wettest November day. Atop Squaw Mountain near Idaho Springs, CO reported a wind gust of 99 mph. The Thanksgiving Day game between the Dallas Cowboys and Miami Dolphins was memorable because of the weather. Heavy sleet during the game covered the field with a thick white coating and made play difficult. The Dolphins won on a last second field goal.

Behind the storm, a deep upper level low & surface high pressure brought record low temperatures including: Havre, MT: -23°: Tied, Lander, WY: -15°: Tied, Kalispell, MT: -14°, Casper, WY: -12°, Cheyenne, WY: -11°, Missoula, MT: -10°, Burns, OR: -9°, Winnemucca, NV: -6°, Pueblo, CO: -6°, Colorado Springs, CO: -4°, Norfolk, NE: -3°, Goodland, KS: -1°, Pendleton, OR: 2°, Lewiston, ID: 2°, Salt Lake City, UT: 3°, Dodge City, KS: 3°, Lincoln, NE: 4°, Concordia, KS: 6°, Amarillo, TX: 8°, Topeka, KS: 11°, Wichita, KS: 11°, Portland, ME: 11°-Tied, Bishop, CA: 12°, Olympia, WA: 13°, Oklahoma City, OK: 15°, Eugene, OR: 16°, Medford, OR: 16°, Quillayute, WA: 22°, Bridgeport, CT: 22°, Abilene, TX: 23°, Dallas (DFW), TX: 23°, Sacramento, CA: 26°, New York (Kennedy Airport), NY: 26°, Redding, CA: 28°, New York (LaGuardia Airport), NY: 28°, Stockton, CA: 29°-Tied, Eureka, CA: 33° and Corpus Christi, TX: 36°-Tied.

2002

Flash floods claimed at least 35 lives and caused extensive damage in large parts of Morocco. 38 people were swept away by the flooded Bengueribi River near Settat, south of Casablanca. 30 were confirmed dead, and 8 others were missing.

2006

Football players and 13,000 fans brave wind chills as low as -25° at the Canadian college football championship at Saskatoon, Saskatchewan Canada.

November 26th:

1703

400 windmills were destroyed by the greatest gale in the history of England caused by an intense low that passed just north of London. Many of the huge structures burned down from fires which started as their blades turned wildly in 80 mph winds. In London, roofs blew off and chimneys were toppled. The famed Eddystone Lighthouse was toppled by heavy seas. 123 people died on land, and another 8,000 died at sea as hundreds of vessels from the British fleet were lost, including four Men-Of-War.

1888

A late season hurricane brushed the East Coast with heavy rain and gale force winds. A hurricane passed inside Nantucket Island and over Cape Cod. The storm later crossed Nova Scotia. Winds at Block Island, RI reached 84 mph and Providence recorded a low pressure of 29.15 inHg.

1896

Snow and high winds hit the Northern Plains and the Upper Mississippi Valley, with a Thanksgiving Day blizzard across North Dakota. The storm was followed by a severe cold wave in the Upper Midwest. The temperature at Pokegama Dam, MI plunged to -45°.

1970

The world's wettest minute on record occurred as 1.50 inches of rain fell in just 60 seconds at Barot on Guadeloupe in the Caribbean.

1974

A record early snow hit Caribou, ME with 22.3 inches falling in 24 hours and a storm total of 30 inches. This storm was the major contributor to Caribou's snowiest November on record at 34.9 inches.

1979

A strong cold front moved through the Mid Atlantic during the afternoon bringing thunderstorms and gusty winds. Kutztown, PA reported a gust to 70 mph, Reading, PA gusted to 65 mph, Allentown, PA gusted to 62 mph and Philadelphia, PA reported a gust to 59 mph. The gusts tore the roofs or portions of roofs off houses and other buildings. Many trees were uprooted or broken off. Rain ruined a large amount of chemicals when the roof of a storage building was blown away.

1983

A major snowstorm hit from Colorado to Wisconsin through the 28th. A fairly consistent 1 to 2 feet of snow was reported. Sydney, NE had the most with 27 inches. Blizzard conditions prevailed with wind gusts as high as 60 mph. Limon, CO reported near zero visibility in snow and blowing snow for a solid 24 hours.

1984

Lake-effect snows produced by Utah's Great Salt Lake dropped up to 20 inches at Copper City.

1987

A Thanksgiving Day storm in the northeastern U.S. produced heavy snow in northern New England and upstate New York. Snowfall totals in Maine ranged up to 20 inches at Flagstaff Lake. Totals in New Hampshire ranged up to 18 inches at Errol. Gales lashed the coast of Maine and New Hampshire. A second storm, over the Southern and Central Rockies, produced 9 inches of snow at Kanosh UT, and 13 inches at Divide CO, with 5 inches reported at Denver CO.

1988

Thunderstorms produced severe weather over the Central Gulf Coast States during the late morning and afternoon hours. 5 tornadoes were reported in Mississippi, causing a million dollars damage at Ruleville, and in Warren County.

In Utah, the town of Alta was blanketed with 15 inches of snow during the overnight hours, and during the day was buried under another 16.5 inches.

1989

A massive storm over the western U.S. produced heavy snow in Utah, Colorado, Wyoming and Montana. The storm produced more than 2 feet of snow in the higher elevations of northern and central Utah, bringing more than 60 inches to the Alta Ski Resort in the Wasatch Mountains. Winds in Utah gusted to 60 mph at Bullfrog. The storm brought much needed snow to the ski resorts of Colorado, with 19 inches reported at Beaver Creek.

2001

Tropical Storm Olga strengthened into a hurricane in the central Atlantic, making this the third hurricane to form this month. This was the first time three hurricanes had formed in the Atlantic basin in the month of November.

2005

On this date through the 28th, Great Falls, MT experienced its heaviest snowstorm on record with a 3-day total of 18.1 inches.

2006

A powerful storm blanketed British Columbia's southern coastal areas and across the Lower Mainland as much as 15.7 inches of snow. Abbotsford received 16.1 inches; the snowfall set a new one-day storm record for November. Vancouver received 7.5 inches.

The morning temperature hit a daily record low of -44° in Dawson, Yukon Canada. For the month, Dawson was the coldest spot in Canada, averaging an incredible record-shattering average temperature of -19.1°.

2007

Lightning and heavy rain delayed the start of the Monday Night Football game at Pittsburgh's Heinz Field between the Miami Dolphins and the Pittsburgh Steelers by 25 minutes. The muddy field conditions contribute to one of the lowest scoring NFL games won by the Steelers, 3-0, the game being scoreless until the last seconds.

November 27th:

1701

Anders Celsius, the astronomer who invented the Celsius, often called the centigrade thermometer scale was born on this date.

1883

Fire engines were called out in New York City and New Haven, CT as a result of the afterglow of the sunset due to vivid red ash from the Krakatoa Volcano explosion in August.

1898

The "Portland Storm" raged across New England producing gale force winds along the coast and heavy snow inland. 27 inches of snow fell at New London, CT and a foot of snow blanketed Boston, MA. Winds at Block Island, RI gusted to 98 mph while Boston, MA gusted to 72 mph. A passenger ship, the S. S. Portland, sank off Cape Cod with the loss of all 191 people aboard, and Boston Harbor was filled with wrecked ships. The storm wrecked 56 vessels resulting in a total of 456 fatalities.

1912

The only recorded November occurrence of snow to fall in northern Florida occurred as traces of snow were reported in Blountstown, Tallahassee, Marianna and Mt. Pleasant measured a half an inch.

1919

Snow brought a white blanket to area hills and valleys around San Diego. 8 inches fell in Morena, 5 inches at Carrizo Gorge, and 4 inches at Warner Springs.

Along with the snow, very cold air covered areas from the northern Plains, Rockies to the West Coast. Cheyenne, WY recorded a high of -4° which still remains the earliest day of the season that the temperature remained below zero. Some record low temperatures for the date included: Grand Forks, ND: -16°, Clayton, NM: -1° and Medford, OR: 13°.

1938

The second heavy snowfall to hit the Northeast in three days dropped a foot in parts of New Jersey and 14 inches in parts of New York. The snow in New England was the heaviest November

snowfall since the Portland Storm of 1898. Philadelphia, PA reported 6.9 inches of snow, their greatest snow for any November day. 4.3 inches on the 25th and 7.2 inches from the 26th through this date brought the total of 11 inches on the ground in Philly. Washington, D.C. set a daily snowfall record with 6.8 inches on the 25th.

1977

Canadian high pressure brought scattered record lows from the Lakes to North Carolina while high pressure over Idaho generated offshore winds in southern California bringing some record highs. Sparta, WI fell to -18°, their coldest November temperature. Other record lows included: Grand Rapids, MI: 5°, Muskegon, MI: 5°-Tied, Bristol, TN: 15° and Raleigh, NC: 19°.

Record high temperatures for the date included: Borrego Springs, CA: 90°, Victorville, CA: 83°, Idyllwild, CA: 76°, Palomar Mountain, CA: 74° and Big Bear Lake, CA: 65°.

1981

A storm that started on this day dumped nearly two inches of rain in the LA area by 11.28. Three feet of new snow were recorded at Big Bear Lake. Highway deaths resulted.

A few locations reported record high temperatures for the date including: New Orleans, LA: 85°, Montgomery, AL: 83° and Atlantic City, NJ: 69°.

1983

The barometer dropped to 28.17 inches over the Netherlands as an intense area of low pressure moved in from Ireland and England. The reading is the country's lowest pressure on record.

Across southern California, Palm Springs, CA dropped to 34°, a record low for the date while Downtown Los Angeles, CA tied their record low for the date with 42°.

1987

Beginning on the date through the 29th, an early season snow storm hit western Iowa, northeast Nebraska and southeast South Dakota. Damage was mainly limited to trees and power lines. Automobile accidents were numerous and traffic was slowed to a crawl.

A few locations in California reported record low temperatures for the date including: Escondido, CA: 30°, Redding, CA: 30°, Santa Maria, CA: 30° and Stockton, CA: 28°.

1988

Snow and high winds created blizzard conditions in parts of Minnesota. Winds gusted to 63 mph at Windom, and snowfall totals ranged up to 14 inches at Aitkin. Snow drifts 7 feet high closed many roads. Fargo, ND reported a wind chill reading as low as -34°.

Beginning the previous day through this day, heavy snow was blown by high winds creating blizzard conditions across portions of southeastern South Dakota and much of Minnesota. Amounts around 6 inches were common, especially in southwest Minnesota, but the real problem was the combination of wind and snow. Winds gusting to over 50 mph produced drifts up to 6 to 7 feet deep forcing the closure of Interstate 90 from Sioux Falls, SD to well into Minnesota. The storm left thousands of travelers stranded across the area.

A few locations in Pennsylvania and New York reported record high temperatures for the date including: Syracuse, NY: 68°, Avoca, PA: 64° and Allentown, PA: 62°-Tied.

1989

A storm system crossing the north central U.S. spread snow across the Dakotas and Minnesota. Heavy snow fell in western South Dakota, with 18 inches reported at Galena. Strong winds associated with the storm gusted to 50 mph in the Great Lakes Region and the Great Plains, with blowing dust reported in Kansas. Out ahead of this storm system, severe weather struck Lower Michigan, Ohio and Indiana with downburst winds and tornadoes. A tornado did a quarter million dollars of damage as it cut a six mile path south of Portland, MI. Another tornado caused minor damage over a three mile long path south of Durand, MI. Ypsilante, MI reported a wind gust of 73 mph.

Unseasonably warm weather prevailed ahead of the cold front. Many cities from the Gulf coast to the Ohio Valley and the Mid Mississippi Valley reported record high temperatures for the date including: Jackson, MS: 83°-Tied, Shreveport, LA: 82°, Little Rock, AR: 79°, Tupelo, MS: 79°-Tied, Memphis, TN: 77°, St. Louis, MO: 76°, Paducah, KY: 75°, Evansville, IN: 74°, Springfield, IL: 73°, Peoria, IL: 72°, Louisville, KY: 71°-Tied, Jackson, KY: 69°, Indianapolis, IN: 68°, South Bend, IN: 63° and Chicago, IL: 63°-Tied.

1990

Indian summer heat prevailed over the eastern half of U.S. setting over 70 records over a 2-day period courtesy of an upper level ridge of high pressure. Record highs temperatures for the date included: Tampa, FL: 86°, Montgomery, AL: 84°, Columbus, GA: 82°, Birmingham, AL: 81°, Huntsville, AL: 80°, Jackson, KY: 79°(eclipsed previous record by 10 degrees), Chattanooga, TN: 79°, Memphis, TN: 79°, Oak Ridge, TN: 79°, Tupelo, MS: 79°-Tied, Paducah, KY: 78°, Knoxville, TN:

78°, Nashville, TN: 78°, Louisville, KY: 77°, Louisville, KY: 77°, Bristol, TN: 77°, Lexington, KY: 76°, Evansville, IN: 75°, Columbus, OH: 75°, Pittsburgh, PA: 75°, Cincinnati, OH: 74°, Dayton, OH: 74°, Greensboro, NC: 74°, Youngstown, OH: 72°, Roanoke, VA: 72°, Buffalo, NY: 72°, Akron, OH: 71°, Cleveland, OH: 71°, Erie, PA: 71°, Asheville, NC: 71°-Tied, Indianapolis, IN: 70°, Mansfield, OH: 70°, Fort Wayne, IN: 69°, Detroit, MI: 69°, Toledo, OH: 69°, South Bend, IN: 68°, Milwaukee, WI: 67°, Chicago, IL: 67°, Alpena, MI: 67°, Flint, MI: 66°, Madison, WI: 65°, Rockford, IL: 65°, Lansing, MI: 65°, Grand Rapids, MI: 65°-Tied, Green Bay, WI: 63°, Houghton Lake, MI: 62° and Muskegon, MI: 62°.

A tornado moved across the southern edge of Rushville, IL and moved northeast causing extensive damage to homes, barns, and trees in the Scab Hollow area. At least three homes were destroyed. Another tornado uprooted 36-inch-diameter oak trees in southwest Mason County. A third tornado in Tazewell County destroyed 32 airplanes and four hangars as it moved across an airport, causing \$1.5 million dollars damage.

Out west, an upper level trough brought record low temperatures to a few locations including: Winnemucca, NV: -4°, Bishop, CA: 9°, Sacramento, CA: 30-Tied and Borrego Springs, CA: 36°.

1994

Chicago, IL received a trace of snow making this their latest date for the first snow of the season. Their normal first snow occurs on October 30th.

High pressure brought chilly weather to southern California. Bishop, CA tied their daily record low with 9° and Long Beach, CA set a new record low with 38°.

Shreveport, LA tied their record high with 82°.

1995

A major winter storm lashed the southern two thirds of Wisconsin with thunder, heavy snow of 6 to 14 inches between Milwaukee and Madison, sleet, freezing rain, strong gusty winds, and near-blizzard whiteout conditions. Preceding the snow over southern Wisconsin there was a two to six hour period of sleet and/or freezing rain which glazed road surfaces. This was a dangerous storm which was forecasted two days in advance. The path of the responsible low pressure was from northern Missouri to southern Ontario, Canada. Some snowfall locations in Wisconsin included: Lone Rock: 11 inches, Richland Center: 10 inches, Owen: 8 inches, Mondovi: 7 inches and Viroqua: 6 inches.

Seven storms and melting snows beginning of this date through December 6th caused severe flooding along the Cedar River in Washington State.

1996

Hillsboro, WI plunged to -10°, their coldest November temperature on record while Jackson, KY set a daily record low of 24°.

1999

The islands of the South Pacific nation of Vanuatu was devastated by a 7.1 magnitude earthquake and tsunami that left thousands homeless.

2001

A powerful winter storm, the first of the season, dumped between 3 and 8 inches of snow across portions of central and southwest Oklahoma. Isolated reports of up to 10 inches were reported across western north Texas. By the next day, Lawton, OK had 6 inches on the ground, while Munday, TX had accumulated 14 inches.

A few locations across North Carolina reported record high temperatures for the date including: Charlotte, NC: 77°, Greensboro, NC: 74°-Tied and Asheville, NC: 72°.

3.24 inches of rain fell in 24 hours at Honolulu, HI. An amazing statistic, from March 1997 through November 2001, less rain than 3.24 inches fell every month.

2005

A surface low pressure system deepened across Oklahoma late the previous day in response to a strong upper level storm system over the Rocky Mountains. This tightened the pressure gradient across much of the region. This feature, along with a very well-developed mountain wave set up over the Guadalupe Mountains resulted in damaging winds across the mountains and adjacent plains of west Texas and southeastern New Mexico. The result was a National Weather Service cooperative observer measured several high wind gusts, the greatest 69 mph. His 18 foot flagpole was blown down by one of the wind gusts.

2006

Lightning killed five buffalo at a farm near Janesville, WI including a white buffalo calf born in August.

2008

A cold air funnel was captured on film near Moapa, NV. These funnels typically form as an upper level low pressure system moves overhead. They rarely touch the ground.

November 28th:

Ice crystals in the sky can sometimes cause interesting displays of light. A halo is such a display. Halos are caused when light rays are bent by ice crystals, forming a ring around the sun or moon. Weather folklore says that halos can be used to forecast precipitation. This is sometimes true, because high clouds containing ice crystals are the first clouds to move into an area ahead of an approaching low pressure system.

1905

A Great Lakes storm produced winds at Duluth, MN of over 60 mph for more than 12 hours. Sailors aboard a ship which went aground just 100 yards offshore in Lake Superior actually froze to death.

1906

A big desert snowfall, especially for so early in the season occurred across the southwest. Mojave, CA picked up 6.5 inches.

1921

New England was in the midst of a 4-day ice storm, their worst on record. Ice was more than three inches thick in many places following the storm, and property damage was in the millions of dollars. Northern New England received heavy snow with more than two feet reported in some areas. Overnight freezing rains continued through the day at Worcester, MA while the wind increased to gale force. Streets become impassable even on foot, and whole towns were plunged into darkness without communication. The storm caused \$20 million dollars damage to power lines, telephone lines and trees.

1955

Bitterly cold arctic air gripped areas from the southern Plains to the Great Lakes. The high temperature at Lansing was only 15° (a record low maximum), after a morning low of 6°. Meanwhile, a foot of lake effect snow piled up at Muskegon, MI. Other locations reporting record lows included: Green Bay, WI: -3°, Houghton Lake, MI: 0°, Marquette, MI: 0°, Toledo, OH: 6°, Muskegon, MI: 7°, Grand Rapids, MI: 7°-Tied, Youngstown, OH: 7°-Tied, Cleveland, OH: 8°, Detroit, MI: 8°, Springfield, MO: 10°, Evansville, IN: 12°, Paducah, KY: 13°, Bristol, TN: 15°, Wichita Falls, TX: 18°, Oak Ridge, TN: 18°, Knoxville, TN: 18°-Tied, Dallas, TX: 23° and Dallas (DFW), TX: 24°.

1960

A severe storm produced waves 20 to 40 feet high on Lake Superior. Duluth, MN was buried under a foot of snow, and clocked wind gusts to 73 mph. The northern shore of Lake Superior was flooded, and property along the shore was battered. Thousands of cords of pulpwood were washed into Lake Superior, and up to 3 feet of water flooded the main street of Grand Marais. Thunder accompanied the strong storm.

1968

Most of Oklahoma had a white Thanksgiving morning as snowfall amounts of one to two inches occurred along a 130 mile wide band from southwest to northeast Oklahoma. Up to three inches covered parts of Jefferson, Love, and Carter Counties. The one to two inch snow cover in Oklahoma City provided the first white Thanksgiving in 10 years.

1975

The first winter storm of season was a heavy one across southern California ending the next day. Up to two feet of snow fell in the San Bernardino Mountains, including 16 inches at Big Bear Lake. 20 stranded campers were rescued after a few days. 12 inches of snow fell in Idyllwild, tying their greatest daily snowfall on record for November (11/10/1982).

1978

A jockey at a horse racing track in Miami, FL was killed by lightning as he ran for cover after a race.

1985

Arctic high pressure dominated areas from Canada to the Pacific Northwest to the northern Plains. Kenora, Ontario Canada recorded their lowest November temperature as they dropped to -24°.

Record coldest November temperature at Miles City, MT plunged to their coldest November temperature on record with -25°; their high for the day was only -3°. High temps at Miles City were colder than 10 above from Nov 19th trough Dec 2nd. International Falls, MN set their November record low temperature with -32°.

Other locations reporting daily record lows included: Grand Forks, ND: -29°, Great Falls, MT: -25°, Fargo, ND: -24°: Tied, Aberdeen, SD: -21°: Tied, Valentine, NE: -18°: Tied, Billings, MT: -16°, Kalispell, MT: -16°, Rapid City, SD: -14° and Quillayute, WA: 21°.

1987

Low pressure in the Middle Mississippi Valley produced a mixture of snow and sleet and freezing rain from the Central Plains to the Upper Mississippi Valley. Snowfall totals in Iowa ranged up to 10 inches at Red Oak. Totals in Nebraska ranged up to 11 inches at Shickley. Freezing rain made roads treacherous in the Twin Cities area of southeastern Minnesota. Bitter cold arctic air invaded the Northern High Plains Region. Laramie, WY was the cold spot in the nation with a morning low of -18°.

1988

Thunderstorms spawned five tornadoes in North Carolina during the early morning hours. A powerful F4 tornado ripped through one of the most densely populated areas of Raleigh, NC shortly after midnight destroying hundreds of homes and damaging thousands more. The tornado killed 4 people along its 83 mile track, and injured 154 others. Total damage was \$77.4 million dollars.

In Texas, San Angelo tied their record low with 21°.

1989

Strong Santa Ana winds prevailed across southern California. Winds gusted to 70 mph at the Rialto Airport, and several tractor-trailer trucks were overturned east of Los Angeles.

The wind set off motion-sensitive burglar alarms all over Huntington Beach, CA and caused a 30 foot pile of horse manure to spontaneously combust.

High winds also buffeted the northeastern U.S., ushering arctic air into the region. Winds gusted to 66 mph at Saint Albans, VT and 60 mph at Montpelier, VT.

1997

A storm system tracking across northern New Mexico produced strong upslope flow against the eastern slopes of the Front Range and Palmer Ridge. Some of top snowfall totals included: 14 inches at Deckers, 12 at Castle Rock & Sedelia and 10 inches near Conifer and at Buffalo Creek.

Thunderstorms produced very heavy rainfall over Bourbon and Cherokee Counties in southeast Kansas. Up to 3 inches of rain fell causing creeks and streams to fill quickly and over flow their banks.

2005

A three day snowstorm came to an end at Great Falls, MT, dumping 18.1 inches for the city's greatest snowstorm on record. 24.9 inches of snow for the month made it the snowiest November on record.

High wind conditions were observed by several automated observing systems over a 55 hour period beginning the 26th across West Texas. The highest gust observed was 110 mph at the Remote Automated Weather Station at The Bowl in the Guadalupe Mountains. Other peak gusts included 88 mph at the Automated Surface Observing System at Guadalupe Pass and 77 mph at Mount Locke in the Davis Mountains.

2006

A slow moving storm system brought heavy snow to the mountains and the Eastern Foothills of Colorado where snowfall totals ranges from 8 to 18 inches. Some of the higher totals included: 18 inches at Genesee, 17.5 inches near Boulder, 17 inches at Aspen Springs, 15 inches at Eldorado Springs, 14.5 inches near Jamestown, 12 inches near Indian Hills, 11.5 inches near Blackhawk, 11 inches at Gross Reservoir & Eldora and 10.5 inches at Conifer. Across the Denver Metro area 5 to 9 inches fell with the heaviest amounts near the Foothills. Higher storms totals included: 15.5 inches at Ken Caryl, 12 inches at Boulder, 7.5 inches near Morrison and 7 inches near Chatfield and Ralston Reservoirs.

November 29th:

1896

The mercury plunged well below zero from the Midwest, to the northern Plains & Rockies. It marked the culmination of a 2 week long cold wave caused by a stagnate high pressure area similar to those over Siberia during the winter. During the month of November temperatures across Montana and the Dakotas averaged 15 to 25 degrees below normal. Other daily record included: Glasgow, MT: -37°, Havre, MT: -30°, Lander, WY: -27°, Fargo, ND: -26°, Aberdeen, SD: -25°, Grand Forks, ND: -24°, Butte, MT: -24°, Great Falls, MT: -22°, Williston, ND: -21°, Helena, MT: -19°, Valentine, NE: -18°, Pueblo, CO: -17°, Huron, SD: -17°, Elko, NV: -16°, Sheridan, WY: -12°, Scottsbluff, NE: -14°, Pendleton, OR: -13°, Sioux Falls, SD: -12°, Missoula, MT: -10°, Norfolk, NE: -10°, Boise, ID: -9°, Spokane, WA: -8°, Grand Island, NE: -6°, Colorado Springs, CO: -5°, Sioux City, IA: -5°, Goodland, KS: -3°, Salt Lake City, UT: -2°, Clayton, NM: 2°, Lewiston, ID: 4°, Concordia, KS: 5°, Topeka, KS: 6°, Wichita, KS: 8°, Amarillo, TX: 10°, Springfield, MO: 10°-Tied, Salem, OR: 12°, Seattle, WA: 20°, Astoria, OR: 24°, Eureka, CA: 29° and Brownsville, TX: 31°.

1911

The world record for a 5 minute rainfall total was set in Porto Bello, Panama as 2.48 inches fell.

1919

In Canada, the southwestern Ontario community of Leamington experienced a rare November tornado.

1921

The Worcester, MA area was especially hit by a major ice storm that affected central New England. Trees and wires were downed over a wide area. Millions of dollars in damage resulted.

1954

12 inches of rain fell in 24 hours over western Oahu in Hawaii as heavy thunderstorms caused extensive flooding.

1963

Five minutes of sunshine was observed at Fresno, CA; the only sunlight seen in an 11 day streak from November 27th through December 7th. Clouds kept high temperatures in the 40s each day.

1966

High winds struck the Chicago, IL area producing extensive damage. Winds gusted to 55 mph along the Lake Front and 48 mph at Midway Airport. The Lake Front was the hardest hit with waves up to 13 feet high. Low lying areas were inundated and property damage was extensive. A newly constructed home along the Lake Front was demolished at Long Beach, IN.

1969

Dense fog along the New Jersey Turnpike resulted in a chain reaction of vehicle collisions during the morning rush hour about halfway from Camden to the Delaware Memorial Bridge. A propane truck jack-knifed and was struck by a trailer truck and other vehicles piled into the fiery mass. Six people were killed.

1975

A magnitude 7.2 earthquake off the coast of Hawaii produced a tsunami that killed two campers and injured another 19 others at Halape Park. The earthquake caused rocks to be loosened from a hillside above the park, and this caused the campers to move to a coconut grove closer to the ocean. The first tsunami-generated wave was only 5 feet high, but the second was 26 feet and swept many of the campers away.

Damaging winds occurred over extreme northwest Oklahoma during the afternoon hours. 80 mph winds flipped over a 50 foot mobile home near Laverne and slammed it into a utility pole. Also, a small trailer was rolled two and a half times by strong winds near Selman.

Red River, NM was buried under 34 inches of snow in 24 hours to establish a state snowfall record.

This was also a day for record temperatures. Some record lows were set from the Rockies to the West Coast. Fresno, CA dipped to 26° establishing their coldest temperature on record for November. Other daily record lows included: Butte, MT: -22°, Cut Bank, MT: -21°, Lewistown, MT: -11°, Casper, WY: -10°, Billings, MT: -5°, Reno, NV: 5°, Grand Junction, CO: 5°, Olympia, WA: 14°, Idyllwild, CA: 16°, Palomar Mountain, CA: 17°, Stockton, CA: 26°, Los Angeles (LAX), CA: 41° and Downtown Los Angeles, CA: 41°-Tied.

A few locations from Texas to Wisconsin reported record high temperatures for the date including: Del Rio, TX: 90°, San Angelo, TX: 81°, Lake Charles, LA: 81°-Tied, Midland-Odessa, TX: 78°-Tied and Madison, WI: 60°.

1976

An incredibly amplified upper level trough extended from the Ohio Valley & Southeast to the West Coast bringing record cold. It was 32° at Borrego Springs, CA, their earliest date in the season to record a freezing temperature. Locations reporting record lows for November included: Hatfield, WI and Waukon, IA set their all-time record lows for November with -24° and -13° respectively.

Other locations reporting daily record lows included: Dubuque, IA: -11°, Green Bay, WI: -9°, Albuquerque, NM: -7°, Rockford, IL: -6° (followed by a record low maximum of 11°), Lincoln, NE: -5°, Marquette, MI: -2°, Concordia, KS: 0°, Peoria, IL: 0°-Tied, El Paso, TX: 1°, Lubbock, TX: 1°, Topeka, KS: 2°, Kansas City, MO: 3°, Akron, OH: 3°, Cincinnati, OH: 3°, Mansfield, OH: 3°, Amarillo, TX: 3°, Roswell, NM: 4°, Pittsburgh, PA: 4°-Tied, Youngstown, OH: 5°, Wichita, KS: 6°, Springfield, MO: 6°, Cleveland, OH: 6°-Tied, Fort Smith, AR: 8°, St. Louis, MO: 8°-Tied, Tulsa, OK: 10°, Yakima, WA: 10°, Nashville, TN: 11°, Paducah, KY: 13°, Charleston, WV: 13°, Midland-Odessa, TX: 15°, Shreveport, LA: 16°, Little Rock, AR: 17°, San Angelo, TX: 17°, Waco, TX: 17°, Wichita Falls, TX: 17°, Dallas, TX: 19°, Austin, TX: 20°, Austin (Bergstrom), TX: 20°, San Antonio, TX: 21°, Dallas (DFW), TX: 22°, Houston, TX: 22°, Meridian, MS: 22°-Tied, Victoria, TX:

24°, Quillayute, WA: 24°, Baton Rouge, LA: 24°-Tied, Mobile, AL: 25°-Tied, Lake Charles, LA: 27°, New Orleans, LA: 30°, Sacramento, CA: 31° and Palm Springs, CA: 34°.

In sharp contrast, upper level high pressure over the Bahamas kept the sunshine state very warm. West Palm Beach tied a record high with 89° and Vero Beach set a new record high with 86°.

1985

An upper level trough with Arctic high pressure brought extreme cold from the northern Plains to the Pacific Northwest. The temperature at Bismarck, ND plunged to -30° to establish their record low for the month of November. The high that day was -4°. Other record lows for the date included: Chinook, MT: -32°, Grand Forks, ND: -31°, International Falls, MN: -28°, Valentine, MT: -27°, Chester, MT: -26°, Williston, ND: -24°, Miles City, MT: -21°, Conrad, MT: -20°, Shelby, MT: -18°, St. Cloud, MN: -16°, Kalispell, MT: -14°, Marquette, MI: -4°, Lewiston, ID: 0°, Yakima, WA: 10°-Tied, Eugene, OR: 16°-Tied and Quillayute, WA: 21°.

In contrast, an upper level ridge brought record highs to parts of the southeast including: Tampa, FL: 85°-Tied, Wilmington, NC: 83°, Charleston, SC: 82° and Savannah, GA: 82°-Tied.

1987

Snow blanketed the Upper Mississippi Valley, with heavy snow reported near Lake Superior. Up to 10 inches of snow was reported in Douglas and Bayfield County, Wisconsin. Brule, WI received 9 inches of snow.

Heavy rain soaked the Mid-Atlantic Coast States, while gale force winds lashed the coastline. Flooding was reported in Maryland and Virginia.

1988

9 inches of snow at Alta, UT brought their total for the month to 164 inches, surpassing their previous November record of 144 inches. Snowbird, UT, also in the Little Cottonwood Valley, surpassed their November record of 118 inches of snow.

The same storm moved out in to the Plains and upper Midwest bringing 5 to 10 inches of snow to parts of Iowa, Minnesota and Wisconsin. Some snowfall totals included: Cashton, WI: 10 inches, Waukon, IA: 7 inches, Decorah, IA: 6 inches, Hokah, MN: 6 inches, Necedah, WI: 6 inches and Ontario, WI: 6 inches.

Tallahassee, FL tied a record low with 27°.

1989

Strong Santa Ana winds diminished over southern California, but record cold was reported in some of the California Valleys and from parts of the Great Lakes into the Northeast. Daily record lows included: Marquette, MI: -5°, Caribou, ME: -2°, Bridgeport, CT: 20°, Islip, NY: 23°, Daggett, CA: 24°, Jackson, KY: 24°, New York (Kennedy Airport), NY: 25° and Redding, CA: 27°.

Gale force winds, gusting to 44 mph at Milwaukee, WI, produced snow squalls in the Great Lakes Region. Sault Ste Marie, MI finished the month of November with a record 46.8 inches of snow.

1991

The third major snowstorm of the season affected most of South Dakota, Iowa and Minnesota. A developing area of low pressure moved north out of the southern plains the previous day. The storm dumped 2 to 8 inches of snow across the area. Strong winds developed with the storm producing widespread drifting and blowing snow. Snowfall amounts included 6 inches at Sioux Falls, SD and 7 inches in Vermillion, SD. While the snow totals were not that impressive the slick roads led to a 50 car pile up in Rapid City, SD. Much of northwest Iowa was glazed with freezing rain with over 1 inch accumulating in most areas. The weight of the ice damaged trees and power lines in many communities across northwest Iowa. To add to the problems thunderstorms accompanied the freezing rain. At times a mixture of ice pellets and snow pelted the area. Overall the storm caused millions of dollars in damage in Iowa alone.

In the warm sector, an F4 tornado tracked for 10 miles from Nixa to Springfield, MO killing 2 people, injuring 64 others and doing over \$15 million dollars in damages.

A dust storm, dropping visibility to less than 50 feet, occurred near Coalinga, CA caused a series of chain-reaction accidents on Interstate 5, involving a total of 104 vehicles and resulting in 17 fatalities.

1998

A strong upper level ridge and surface high pressure brought record warm temperatures ahead of a cold front from the Midwest & southern Plains to the Mid-Atlantic States. The morning low in Rochester, MN of 54° was actually higher than the previous record high for the date. The temperature reached a record high of 62°. Other record highs for the date included: Houston, TX: 82°, Salisbury, MD: 75°, Raleigh, NC: 75°-Tied, Roanoke, VA: 74°, Chattanooga, TN: 74°-Tied, Nashville, TN: 74°-Tied, Paducah, KY: 73°, Sterling (Dulles Airport), VA: 73°, Lynchburg, VA: 73°-Tied, Oak Ridge, TN: 72°, Omaha, NE: 72° (broke previous record by 10 degrees), Lincoln, NE:

71°, Atlantic City, NJ: 71°, Des Moines, IA: 70° (broke previous record by 10 degrees), Wilmington, DE: 70°, Reading, PA: 70°, Waterloo, IA: 69° (broke previous record by 11 degrees), Moline, IL: 69°, Harrisburg, PA: 69°, Chicago, IL: 68°, Erie, PA: 67°, Milwaukee, WI: 66°, La Crosse, WI: 65° (broke previous record by 10 degrees), Grand Rapids, MI: 65°, Toledo, OH: 65°, Youngstown, OH: 65°, Lansing, MI: 65°-Tied, Mansfield, OH: 65°-Tied, Muskegon, MI: 65°-Tied, Dubuque, IA: 64°, Madison, WI: 64°, Sioux City, IA: 63°, Green Bay, WI: 63°, Buffalo, NY: 63°-Tied, Minneapolis, MN: 62° (broke previous record by 10 degrees), Rochester, MN: 62°, Huron, SD: 62°-Tied, Avoca, PA: 62°-Tied, Alpena, MI: 61°, Houghton Lake, MI: 61°, St. Cloud, MN: 59°, Binghamton, NY: 56°-Tied, Marquette, MI: 55° and Ste. St. Marie, MI: 54°.

Tropical Storm Nicole strengthened to a hurricane in the eastern Atlantic. This brought the total number of hurricanes to 33 for the four year period of 1995-1998, the most hurricanes on record in a four year period in the Atlantic Ocean.

2004

Surface high pressure behind a departing winter storm brought record cold temperatures from parts of the central Plains to the West Coast. Record lows included: Laramie, WY: -12°, Shirley Basin, WY: -12°, Rawlins, WY: -9°, Scottsbluff, NE: -8°, Ely, NV: -5°, Cheyenne, WY: -3°, Denver, CO: -1°, Grand Junction, CO: 2°, Reno, NV: 4°, Bishop, CA: 11°-Tied, Stockton, CA: 26°-Tied and Sacramento, CA: 28°.

Meanwhile, Galveston, TX tied their record high with 79°.

2006

Offshore winds gusted to 73 mph at Fremont Canyon (sustained 54 mph) and 58 mph at Ontario, CA. Widespread property damage and power outages resulted from downed power lines, poles, and trees.

An upper level trough across the Rockies brought record low temperatures for the date including: West Yellowstone, MT: -26, White Sulphur Springs, MT: -22, Bozeman, MT: -18, Boulder, MT: -18, Ennis, MT: -18, Dillon, MT: -16, Townsend, MT: -14, Stanford, MT: -13, Livingston, MT: -12 and Virginia City, MT: -11.

A strong ridge off the Florida coast brought record high temperatures to a few locations from Texas to New York including: Houston, TX: 83, Fort Smith, AR: 78-Tied, Rochester, NY: 69, Buffalo, NY: 68, Detroit, MI: 67, Toledo, OH: 66 and Alpena, MI: 61-Tied.

November 30th:

1784

The first manned balloon ascent for the purpose of taking upper air meteorological measurements took place. The balloon rose 6,500 feet into the sky over London, England.

1875

A severe early season cold wave set November records across the northeastern U.S.

Philadelphia, PA dropped to 8°, their coldest November temperature and only November day seen in the single digits. Boston, MA set two November records: The morning low of 2° was a record low for November and the afternoon high of 10° is the coldest high temperature for November and the only November day where the high failed to reach 20°. Other daily record low temperatures included: Eastport, ME: -13°, Portland, ME: -6°, Rochester, NY: 1°, Buffalo, NY: 2°, Boston, MA: 2°, New York (Central Park), NY: 7° and Philadelphia, PA: 8°.

1896

The southern Plains and upper Midwest was experiencing a brutally severe cold wave. Pokagama Dam, MN dropped to -43°. Daily record lows for the date included: Havre, MT: -30°, Grand Forks, ND: -25°, Williston, ND: -24°, Fargo, ND: -24°, Bismarck, ND: -21°, Duluth, MN: -20°, Lander, WY: -19°, Huron, SD: -17°, Valentine, NE: -15°, Sioux Falls, SD: -12°, Pueblo, CO: -10°, Minneapolis, MN: -10°, Norfolk, NE: -10°, Scottsbluff, NE: -10°, Sioux City, IA: -9°, Missoula, MT: -4°, Des Moines, IA: -2°, Grand Island, NE: -2°, Omaha, NE: -2°, Boise, ID: -1°, Lincoln, NE: -1°, Salt Lake City, UT: 0°, Colorado Springs, CO: 3°, Concordia, KS: 4°, Topeka, KS: 4°, Pendleton, OR: 4°, Kansas City, MO: 5°, Columbia, MO: 6°, Spokane, WA: 8°, Springfield, MO: 9°, Wichita, KS: 10°, Oklahoma City, OK: 14°, Brownsville, TX: 30° and Corpus Christi, TX: 30°.

1917

88 inches of precipitation fell during the month of November at Swanson Bay, British Columbia Canada setting a record.

1925

An extremely rare late November hurricane began to affect the west coast of Florida as it strengthened during the day. The storm made landfall very early on December 1st south of Tampa Bay, weakened to a tropical storm as it crossed central Florida, and exited around St. Augustine.

The storm regained Hurricane strength off Jacksonville late on the 1st. Heavy rain continued over northeast Florida on the 2nd. Gale force winds were reported from the Keys to Jacksonville and over 50 people lost their lives, mostly on ships at sea. Damage along the coast south of Jacksonville was heavy and excessive rain and wind seriously damaged citrus and truck crops.

1955

Gale-force winds and heavy seas pound the southwestern Nova Scotia coast. A Cape Breton lighthouse keeper and his wife are lost in the storm.

1957

On this date through December 1st, Lee slope winds, enhanced by Hurricane Nina, gusted to 82 mph at Honolulu, HI, a record wind gust for that location. Wainiha, on the island of Kauai, was deluged with 20.42 inches of rain, and 35 foot waves pounded some Kauai beaches, even though the eye of the hurricane was never within 120 miles of the islands.

1959

This was the sunniest November in Fresno, CA history with a total of 302 hours and 50 seconds of sunshine or 99% of the total possible.

1964

An upper level trough and arctic surface high pressure brought extreme cold to the Plains and Midwest. Locations reporting record low November temperatures included: Minneapolis, MN: -17°, Blair, WI: -8°, Minneapolis, MN: -3° and St. Louis, MO: 1°. Other daily record lows included: International Falls, MN: -27°, Aberdeen, SD: -27°, Bismarck, ND: -25°, Duluth, MN: -23°, Huron, SD: -21°, Sioux Falls, SD: -17°, Norfolk, NE: -15°, Omaha, NE: -9°, Grand Island, NE: -5°, Lincoln, NE: -5°, Des Moines, IA: -3°, Concordia, KS: 4°-Tied, Springfield, MO: 8°, Wichita, KS: 10°-Tied, Paducah, KY: 11°, Tulsa, OK: 13°-Tied and Wichita Falls, TX: 22°-Tied.

While the Midwest was shivering, upper level high pressure off the California coast and surface high pressure over the Great Basin provided an offshore flow across southern California resulting in some record high temperatures for the date including: Santa Ana, CA: 88°, Riverside, CA: 88°, Downtown Los Angeles, CA: 88°, Los Angeles (LAX), CA: 86°, San Diego, CA: 85° and Big Bear Lake, CA: 64°.

1967

A record November snowstorm occurred in the Mid-Atlantic as 11.4 inches at Dulles Airport outside of D.C, 8.4 inches at Baltimore-Washington International Airport and 6.9 inches fell at Washington D.C.'s National Airport. Most of the snowfall fell within 12 hours. Philadelphia, PA received 4.9 inches. This is one of their earliest snow storms that produced 4 or more inches of snow.

1970

High winds blasted the Colorado Rockies into the eastern Plains. A wind gust of 112 mph was recorded at the National Center for Atmospheric Research and 96 mph at the National Bureau of Standards in Boulder, CO. Downtown Boulder recorded a gust to 76 mph. The high winds caused widespread property damage; including roofs, signs, trees and power lines. Blowing dust reduced visibility to near zero across most of eastern Colorado. Several mobile homes, campers and semis were blown off the highway north of Denver.

1976

One of the coldest Novembers on record ended with a blast of arctic air that dropped low temperatures well below zero across the northern Plains to below freezing all the way to the Gulf Coast. Locations reporting their all-time November record lows included: Jump River, WI: -31°, Medford, WI: -19° and Necedah, WI: -19°.

Other locations reporting record lows for the date included: Dubuque, IA: -9°, Green Bay, WI: -8°, Moline, IL: -4°, Marquette, MI: -2°, Cincinnati, OH: 1°-Tied, Youngstown, OH: 1°-Tied, Binghamton, NY: 3°, Cleveland, OH: 3°, Topeka, KS: 4°-Tied, Albuquerque, NM: 5°, Syracuse, NY: 5°, Springfield, MO: 6°, Albany, NY: 8°-Tied, El Paso, TX: 9°, Bristol, TN: 10°, Oak Ridge, TN: 10°, Yakima, WA: 10°, Tupelo, MS: 11°, Sterling (Dulles Airport), VA: 11°, Atlantic City, NJ: 13°, Oklahoma City, OK: 13°, Birmingham, AL: 15°, Newark, NJ: 16°, Meridian, MS: 16°, Jackson, MS: 17°, New York (LaGuardia Airport), NY: 18°, New York (Kennedy Airport), NY: 19°, Houston, TX: 19°, Shreveport, LA: 20°, Austin (Bergstrom), TX: 20°, Midland-Odessa, TX: 20°, San Angelo, TX: 20°, Baton Rouge, LA: 21°, Beaumont-Port Arthur, TX: 22°, San Antonio, TX: 22°, Wallops Island, VA: 22°, Lake Charles, LA: 23°, Quillayute, WA: 23°, Mobile, AL: 24°-Tied, Pensacola, FL: 25°-Tied, Astoria, OR: 27° and New Orleans, LA: 29°.

MacLeod Harbor, AK reported a precipitation total for November of 70.99 inches, which established a state record for any month of the year.

1981

A major winter storm rocked eastern sections of South Dakota and northern Iowa through December 1st. The storm began as rain and then changed to freezing rain and sleet before becoming all snow. Winds gusted to over 50 mph producing blizzard conditions. Snow accumulations in southeast

South Dakota were generally 8 to 12 inches with 4 to 8 inches across northwest Iowa. In portions of north central Iowa a heavy build-up of ice from the freezing rain combined with strong winds causing power lines to bounce 4 to 6 feet snapping lines and breaking insulators resulting in numerous power outages

This was the driest November at Washington D.C.'s National Airport as only 0.29 inches was reported. Dulles Airport reported just 0.24 inches.

1982

A big storm that started on this day and ended on December 1st brought widespread record rains and strong winds that knocked out power to 1.6 million homes across parts of southern California. 1.96 inches of rain fell at Los Angeles, a daily record. Los Angeles International Airport recorded a wind gust of 60 mph.

1985

Freezing rain and thunder-snow affected many portions of Oklahoma. Winter storm warnings, severe thunderstorm warnings, and tornado watches were all issued for portions of southern Oklahoma, with golf ball size hail reported in Duncan at a temperature of 33°. This day was also known as the day of the Ice Bowl, as the Oklahoma Sooners and Oklahoma State University played each other in Stillwater, on a virtual skating rink at Lewis Field. Further north 5 to 12 inches of snow fell across parts of Minnesota and Wisconsin. Local amounts included: Ontario, WI: 11 inches, Hokah, MN: 8 inches and Austin, MN: 6 inches.

Behind the storm high pressure and a dip in the jet stream brought record cold from the Plains to the Pacific Northwest. Record lows included: Great Falls, MT: -22°, Casper, WY: -17°, Billings, MT: -14°, Spokane, WA: -8°, Rapid City, SD: -6°, North Platte, NE: -5°: Tied, Goodland, KS: -3°, Lewiston, ID: 0°, Olympia, WA: 9°, Yakima, WA: 10°-Tied, Amarillo, TX: 11°, Eugene, OR: 16°, Salem, OR: 17°-Tied, Seattle, WA: 21°, Portland, OR: 22°-Tied, Astoria, OR: 24° and Eureka, CA: 34°-Tied.

1988

Low pressure producing snow across the Upper Great Lakes Region pushed the precipitation total for the month at Marquette, MI past their previous November record of 7.67 inches. 6 inches of snow fell across parts of Minnesota and Wisconsin.

Santa Anawinds across southern California gusted to 75 mph at Laguna Peak. A few locations reported record high temperatures for the date including: Escondido, CA: 86°, Eureka, CA: 72° and Redding, CA: 72°.

121 tornadoes occurred in the U.S. for the month to set a new all-time November record for the number of tornadoes until 1992.

1989

Squalls produced heavy snow in the Lower Great Lakes Region, with 15 inches reported at Chaffee and Barnes Corners, NY. A few locations across the east reported record low temperatures for the date including: Caribou, ME: -5°, Islip, NY: 20°, Wallops Island, VA: 20° and Jackson, KY: 24°.

Tropical Storm Karen drenched parts of Cuba with heavy rain. Punta Del Este reported 14 inches of rain in 24 hours.

1991

The total snowfall for Minneapolis/St Paul, MN for this month was 46.9 inches, making November 1991 the snowiest November on record. The old record was 30.4 inches set in 1983. The 46.9 inches for the month broke an even bigger record as this total was the greatest monthly snowfall of any month. The old all-time monthly snowfall record was 46.4 inches for January 1982. To put this in perspective, the total snowfall for the season so far, since October, was 55.1 inches. The normal total for the entire winter season is 49.2 inches.

1992

The 1988 record didn't last long as 146 tornadoes were reported across the U.S. to set a new November record.

1996

A winter storm dumped 4 to 10 inches of snow over northwest Oklahoma. The next day, skies were sunny, and temperatures across most of the state warmed up into the lower 50s. However, temperatures across the snow covered areas only warmed into the upper 30s. Butler reached 52, while 27 miles to the northwest, Putnam struggled to reach 39. This is a typical example of how the effects of snow cover can result in drastic temperature differences over short distances.

The month of November ended with an amazing 18.79 inches of rain at Honolulu International Airport in Hawaii, which is the third wettest month in history there, and the wettest November ever. The normal is just 3 inches. Airport data dates back to 1946, but downtown data, which correlates well to the airport, goes back to 1874. Only February 1904 with 23.50 inches and March 1951 with 20.79 inches were wetter. Amounts from other parts of Oahu were near 30 inches, even in

some of the normally drier locations around the western half of the island.

Hurricane season officially closed today with 13 named storms, 9 of which were hurricanes. 6 of the hurricanes grew into major hurricanes. The 1996 was the second year in a row with higher than normal activity in the Atlantic and ranked in the top ten of the most active Atlantic Hurricane Seasons ever. There were more major hurricanes in 1996 than in 1995. 139 people lost their lives and damage in the U.S. alone was over \$3.5 Billion.

1997

The 1997 Atlantic Hurricane Season will be remembered for its lack of tropical cyclone activity. After the record setting years of 1995 and 1996, a very strong El Nino suppressed development over the Atlantic. Only 7 tropical storms formed and only 4 of those became hurricanes. Some other notable occurrences from the 1997 Season:.No tropical storms or hurricanes occurred in August for the first time since 1961. Only one named storm occurred during the August-September time frame, the first time since 1929, Only Erika reached category 3. Only Danny and Erika lasted more than 5 days.

1999

The 1999 North Atlantic Hurricane season brought to a close an unprecedented 5 year stretch of 41 hurricanes and 20 major hurricanes, the most in any 5 year period since records began in 1886. The 1999 season was above normal in terms of the number of named storms (12), hurricanes (8) and major hurricanes (5). All 5 major hurricanes achieved Category 4 status, the first time there have ever been 5 Category 4 storms in one year.

An upper level ridge brought record high temperatures to parts of the Rockies including: Sheridan, WY: 71° (broke previous record by 10 degrees), Joliet, MT: 70°, Livingston, MT: 68°, Columbus, MT: 67°, Billings, MT: 65°, Elko, NV: 64°-Tied, Great Falls, MT: 63°, Helena, MT: 63°, Casper, WY: 63°, Lander, WY: 63° and Pocatello, ID: 62°.

2001

Buffalo, NY closed the month of November without any snow falling during the month. This marked the first time in 122 years of weather records that no snow had fallen at all in the month of November. Buffalo averages over 10 inches of snow in November and had recorded over 46 inches in November 2000.

Central Park in New York City recorded its warmest November on record. The average temperature for the month was 52.7°. The old record was 52.5° set in 1979.

Rochester, MN received 0.4 inches of snow. This was the latest first occurrence of measurable snow in Rochester.

2002

The United States' long run of luck continued with just one of the hurricanes making landfall in the U.S. during the 2002 Hurricane Season. October's Hurricane Lili struck Louisiana as a Category 2 storm. Eight of the 13 storms affected the U.S., but Lili was the only hurricane. Nine fatalities and \$900 million dollars in damage resulted from the U.S. storms. During the 8 year period between 1995 and 2002, only 4 of 62 Atlantic Hurricanes made landfall in the U.S.

2005

The official 2005 hurricane season ended with the emergence of Tropical Storm Epsilon, the 26th named storm of the busiest hurricane season on record. Epsilon threatened Bermuda with dangerous surf.

November 2005 was a historic month for Oklahoma City, OK and Wichita Falls, TX. Average temperatures were about 8 degrees above normal for both cities. Both cities had also tied for the driest November on record. No precipitation occurred at all in Wichita Falls, which had only occurred four times before since 1897. Only a trace of precipitation was measured in Oklahoma City, which had only occurred twice since 1897.

2006

Widespread freezing rain and sleet affected many locations in central Illinois west of I-57, changing to snow overnight and into the morning of December 1st. Eleven counties in central Illinois reported ice ranging from a quarter to two inches thick, with the thickest ice around Decatur, Taylorville, Clinton and Mt. Pulaski. Eight counties reported heavy sleet ranging in depth from a half to 2.2 inches. The heaviest snow occurred along and west of the Illinois River, where snow amounts were 8 to 18 inches. Areas east of the Illinois River, especially along the I-55 corridor, had snow amounts ranging from 3 to 8 inches on top of the ice and sleet.

