

Storm Data and Unusual Weather Phenomena - January 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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ALABAMA, Central

(AL-Z011) MARION, (AL-Z012) LAMAR, (AL-Z013) FAYETTE, (AL-Z014) WINSTON, (AL-Z015) WALKER, (AL-Z017) BLOUNT, (AL-Z018) ETOWAH, (AL-Z019) CALHOUN, (AL-Z020) CHEROKEE, (AL-Z021) CLEBURNE, (AL-Z022) PICKENS, (AL-Z023) TUSCALOOSA, (AL-Z024) JEFFERSON, (AL-Z025) SHELBY, (AL-Z026) ST. CLAIR, (AL-Z027) TALLADEGA, (AL-Z028) CLAY, (AL-Z029) RANDOLPH, (AL-Z030) SUMTER, (AL-Z031) GREENE, (AL-Z032) HALE, (AL-Z033) PERRY, (AL-Z034) BIBB, (AL-Z035) CHILTON, (AL-Z036) COOSA, (AL-Z037) TALLAPOOSA, (AL-Z038) CHAMBERS, (AL-Z039) MARENGO, (AL-Z040) DALLAS, (AL-Z041) AUTAUGA, (AL-Z042) LOWNDES, (AL-Z043) ELMORE, (AL-Z044) MONTGOMERY, (AL-Z045) MACON, (AL-Z046) BULLOCK, (AL-Z047) LEE, (AL-Z048) RUSSELL, (AL-Z049) PIKE, (AL-Z050) BARBOUR	01/06/14 21:00 CST	0	0	Cold/Wind Chill
	01/07/14 10:00 CST	0	0	

A strong arctic cold front moved through Central Alabama on Sunday night, January 5th. Northwest winds of 15 to 25 mph behind the front brought extremely cold air to the area, and wind chill values were in the teens and single digits through the day on Monday, January 6th. Winds subsided Monday night as temperatures fell into the low teens and single digits. Even light winds caused wind chills to drop below zero across the area late Monday night through Tuesday morning. Although, official data sites are limited, temperature data was gathered from a variety of sources and compared with general wind data across Central Alabama.

CALHOUN COUNTY --- 0.5 WNW SAKS [33.72, -85.84]

01/11/14 05:18 CST	0	Thunderstorm Wind (EG 50 kt)
01/11/14 05:18 CST	0	Source: State Official

Two power poles were snapped and tress were uprooted at the junction of Lenlock Lane and Arrow Avenue.

CALHOUN COUNTY --- 1.5 SSE JACKSONVILLE [33.80, -85.76]

01/11/14 05:21 CST	0	Hail (0.88 in)
01/11/14 05:21 CST	0	Source: Fire Department/Rescue

CALHOUN COUNTY --- 0.5 SE JACKSONVILLE MUNI AR [33.78, -85.76]

01/11/14 05:24 CST	0	Hail (1.00 in)
01/11/14 05:24 CST	0	Source: Broadcast Media

TALLADEGA COUNTY --- 1.8 NW SHOCCO SPGS [33.47, -86.15]

01/11/14 05:40 CST	0	Hail (1.00 in)
01/11/14 05:40 CST	0	Source: Public

AUTAUGA COUNTY --- 3.0 NNE POSEYS XRDS [32.61, -86.55]

01/11/14 06:15 CST	0	Thunderstorm Wind (EG 55 kt)
01/11/14 06:15 CST	0	Source: Emergency Manager

Trees were uprooted across multiple locations near New Prospect, including the intersections of County Roads 40 and 50, County Roads 57 and 42, and County Roads 57 and 20. Trees were also reported down blocking the southbound lane of Interstate 65 near mile marker 191.

AUTAUGA COUNTY --- 2.8 N FORESTER [32.47, -86.62]

01/11/14 06:20 CST	0	Thunderstorm Wind (EG 50 kt)
01/11/14 06:20 CST	0	Source: Emergency Manager

Trees were uprooted along County Road 165.

ELMORE COUNTY --- 1.2 E DEATSVILLE [32.62, -86.38]

01/11/14 06:30 CST	0	Thunderstorm Wind (EG 55 kt)
01/11/14 06:30 CST	0	Source: Emergency Manager

Multiple trees were uprooted, along with powerlines down, across several areas in Elmore County, including the Deatsville, Jordan Lake, and Weoka Mills communities. The roof of an old barn was removed along Coosa River Road, destroying the barn. An awning was removed from a home near the intersection of Lightwood Road and Blackwells Road. Roads blocked by uprooted trees included Buyck Road at Wood Road, Providence Road at Jackson Trace, Bradley Road and Weoka Road, Titus Road at Speigner Road, and also several locations along Highway 231 between Titus Road and the Coosa County line.

TALLAPOOSA COUNTY --- 3.1 NE ALEXANDER CITY [32.98, -85.93]

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	01/11/14 06:45 CST		0	Thunderstorm Wind (EG 55 kt)
	01/11/14 06:45 CST		0	Source: Emergency Manager

Several trees were uprooted just north of Alexander City. One tree fell on a home on Cedar Street causing major damage. Trees fell on houses on Locust Street and Sewell Street causing minor roof damage.

TALLAPOOSA COUNTY --- 0.9 NW NEWSITE [33.04, -85.78]

	01/11/14 06:55 CST		0	Thunderstorm Wind (EG 55 kt)
	01/11/14 06:55 CST		0	Source: Emergency Manager

Several trees were uprooted in multiple locations across the eastern and northern portions of Tallapoosa County. Roofs were blown off a barn and tractor shed in New Site.

TALLAPOOSA COUNTY --- 0.6 WNW DAVISTON [33.05, -85.64]

	01/11/14 07:00 CST		0	Thunderstorm Wind (EG 50 kt)
	01/11/14 07:00 CST		0	Source: Emergency Manager

Trees were uprooted, falling on powerlines, along Highway 22.

TALLAPOOSA COUNTY --- 1.2 W DADEVILLE [32.83, -85.77]

	01/11/14 07:07 CST		0	Thunderstorm Wind (EG 55 kt)
	01/11/14 07:07 CST		0	Source: Emergency Manager

Trees were uprooted across several locations in the city of Dadeville.

ELMORE COUNTY --- 2.4 NW WALLSBURG [32.68, -86.20]

	01/11/14 07:08 CST		0	Thunderstorm Wind (EG 55 kt)
	01/11/14 07:08 CST		0	Source: Emergency Manager

Weoka Road at Nobles Road was blocked by a fallen tree.

TALLAPOOSA COUNTY --- 2.7 ESE TALLAPOOSA CITY [32.53, -85.81]

	01/11/14 07:50 CST		0	Thunderstorm Wind (EG 50 kt)
	01/11/14 07:50 CST		0	Source: Emergency Manager

Trees were uprooted near the intersection of Highway 49 and West Gantt Mills Road.

On Saturday, January 11th, clusters of thunderstorms developed during the early morning hours ahead of an approaching storm system across portions of south Central Alabama and moved northeastward producing isolated small hail. As this activity was ongoing, convection along a pre-frontal trough pushed into northwest Central Alabama, also producing small hail. The line of storms intensified as it moved eastward, producing large hail, wind damage, and heavy rain.

(AL-Z019) CALHOUN, (AL-Z021) CLEBURNE, (AL-Z023) TUSCALOOSA, (AL-Z024) JEFFERSON, (AL-Z025) SHELBY, (AL-Z026) ST. CLAIR, (AL-Z027) TALLADEGA, (AL-Z028) CLAY, (AL-Z029) RANDOLPH, (AL-Z030) SUMTER, (AL-Z031) GREENE, (AL-Z032) HALE, (AL-Z033) PERRY, (AL-Z034) BIBB, (AL-Z035) CHILTON, (AL-Z036) COOSA, (AL-Z037) TALLAPOOSA, (AL-Z038) CHAMBERS, (AL-Z039) MARENGO, (AL-Z041) AUTAUGA, (AL-Z043) ELMORE, (AL-Z044) MONTGOMERY, (AL-Z047) LEE, (AL-Z048) RUSSELL

	01/28/14 06:20 CST	1	0	Winter Storm
	01/28/14 21:50 CST		0	

Direct Fatalities: M71OU

(AL-Z011) MARION, (AL-Z012) LAMAR, (AL-Z013) FAYETTE, (AL-Z014) WINSTON, (AL-Z015) WALKER, (AL-Z017) BLOUNT, (AL-Z018) ETOWAH, (AL-Z020) CHEROKEE, (AL-Z022) PICKENS, (AL-Z040) DALLAS, (AL-Z042) LOWNDES, (AL-Z045) MACON, (AL-Z046) BULLOCK, (AL-Z049) PIKE, (AL-Z050) BARBOUR

	01/28/14 06:57 CST		0	Winter Weather
	01/28/14 22:00 CST		0	

On Monday, January 27, a very strong arctic front moved through Central Alabama, bringing extremely cold and dry air to the area. Across the north, temperatures dropped through the day and into the 30's shortly after sunset. Temperatures across the entire area continued to plummet overnight and Tuesday morning, bottoming out in the teens across the north and 20's across the south. Within the arctic air behind the front, moisture spread northward ahead of an upper level disturbance. A mixture of winter precipitation fell across the area beginning Tuesday morning, January 28th. With low level cold advection and precipitation falling, surface temperatures

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did not warm through the morning. Travel conditions quickly deteriorated as snow, sleet and ice began to accumulate. Brief periods of freezing rain resulted in a light glaze of ice on area roadways and bridges Tuesday morning at the onset of precipitation. As precipitation transitioned to all snow, it melted and refroze quickly on area roadways, further deteriorating travel conditions. In many locations across Central Alabama, snow accumulated on top of a layer of ice. Hundreds of wrecks and hazardous road conditions left thousands of people stranded in their vehicles on area roadways for hours; many remained there overnight Tuesday night. Many others abandoned there vehicles in favor of walking to warm nearby shelters. As temperatures remained below freezing through Thursday, January 30th, there was only slight improvement in icy road conditions. Seven fatalities (indirect) were attributed to vehicle accidents on icy roads in Central Alabama. One fatality (indirect) resulted from a male slipping on ice outside his home. One fatality (direct) resulted from severe hypothermia. Due to the high number of vehicle accidents and vehicles abandoned in favor of walking to shelters, there were likely unreported indirect injuries numbering in the dozens across the affected area.

ALABAMA, North

(AL-Z001) LAUDERDALE, (AL-Z002) COLBERT, (AL-Z003) FRANKLIN, (AL-Z004) LAWRENCE, (AL-Z005) LIMESTONE, (AL-Z006) MADISON, (AL-Z007) MORGAN, (AL-Z008) MARSHALL, (AL-Z009) JACKSON, (AL-Z010) DEKALB, (AL-Z016) CULLMAN

01/06/14 00:00 CST	0	Cold/Wind Chill
01/07/14 16:00 CST	0	

A record cold airmass overspread the region beginning on the evening of January 5th as a strong cold front moved through. Rain changed to a brief period of sleet and snowfall which produced a dusting of accumulation at most locations. Temperatures only climbed into the single digits and teens on the 6th and dropped into the zero to 10 above range for lows on the 7th. Northwest to north winds behind the front produced very low wind chills in the zero to 10 below range for all of the area on the 6th into the early morning of the 7th. A few locations in the higher elevations of northeast Alabama experienced wind chills of 10 to 15 below zero during this time.

MADISON COUNTY --- 3.1 ENE FARLEY [34.62, -86.52]

01/11/14 04:00 CST	10K	Lightning
01/11/14 04:00 CST	0	Source: Newspaper

Lightning struck a horse barn on Green Mountain in Huntsville. The lightning sparked a fire which killed 12 horses in the barn (due to smoke inhalation), 13 cats and a dog. Six vehicles were destroyed along with antiques and collectibles stored in the barn.

A narrow line of thunderstorms tracked east across north Alabama during the early morning hours of the 11th. As the line moved through Huntsville, lightning struck a horse barn at a farm atop Green Mountain. Tragically, the lightning sparked a fire which killed 12 horses in the barn (due to smoke inhalation), 13 cats and a dog. Six vehicles were destroyed along with antiques and collectibles stored in the barn.

(AL-Z006) MADISON

01/24/14 03:00 CST	0	Cold/Wind Chill
01/24/14 06:00 CST	0	

Wind chill values dipped to zero and below in a few areas during the morning of the 24th. Morning low temperatures in the single digits combined with a north wind of 5 to 15 mph.

(AL-Z008) MARSHALL

01/28/14 12:00 CST	0	Winter Weather
01/28/14 12:00 CST	0	

Light snow during the morning hours of the 28th accumulated to one to two inches in Marshall County. Lighter amounts were reported in Cullman and DeKalb Counties. The snow was quite powdery and dry due to a very cold air mass in place. Water equivalents were only on the order of a few hundredths of an inch.

(AL-Z005) LIMESTONE, (AL-Z006) MADISON, (AL-Z007) MORGAN, (AL-Z009) JACKSON

01/29/14 02:00 CST	0	Cold/Wind Chill
01/29/14 08:00 CST	0	

Wind chills dropped into the zero to 5 below zero range during the early morning of the 29th.

ALABAMA, Southeast

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
DALE COUNTY --- 0.6 NNE ROCKY HEAD [31.57, -85.76]				
	01/11/14 09:47 CST		0.50K	Thunderstorm Wind (EG 50 kt)
	01/11/14 09:47 CST		0	Source: Emergency Manager

A tree was blown down at the intersection of US 231 and AL 51 in Dale county.

DALE COUNTY --- ARITON [31.60, -85.71]				
	01/11/14 09:47 CST		0.50K	Thunderstorm Wind (EG 50 kt)
	01/11/14 09:47 CST		0	Source: Emergency Manager

A tree was blown down near Ariton.

DALE COUNTY --- BEAMON [31.51, -85.58]				
	01/11/14 09:59 CST		0.50K	Thunderstorm Wind (EG 50 kt)
	01/11/14 09:59 CST		0	Source: Emergency Manager

A tree was blown down near Beamon.

A strong cold front moved through the area on January 11th. Limited instability precluded a more widespread outbreak of severe storms, but low level winds and shear were very strong, and some storms did produce straight line wind damage with mainly trees being blown down.

(AL-Z065) COFFEE, (AL-Z066) DALE, (AL-Z067) HENRY, (AL-Z068) GENEVA, (AL-Z069) HOUSTON				
	01/28/14 13:00 EST		1M	Winter Storm
	01/29/14 07:00 EST		0	

The third winter storm to impact the NWS Tallahassee County warning area in five years brought a wintry mix of precipitation to virtually the entire forecast area. The predominant precipitation types were sleet and freezing rain, although snow did fall across portions of southeast Alabama. Up to 1 inch of snow was reported in Houston county. Total liquid equivalent estimates were greater than a quarter inch across all of southeast Alabama. In Dale county, around 41 trees were knocked down due to the weight of the ice, and power outages occurred across all of southeast Alabama with treacherous road conditions.

On the morning of January 28th, there was a trough approaching from the west with moist southwest flow and precipitation ahead of it over the Southeast. At the surface, a cold front was stalled across north central Florida and the Gulf of Mexico. However, the deep arctic air was still well north of our region. During the day, the precipitation changed over to snow and/or sleet in places like Atlanta, Birmingham, Macon, and Mobile, as progressively colder air flowed into the region. This caused major traffic problems, especially in Atlanta.

Late in the afternoon and early evening the rain began to change to freezing rain and sleet in portions of Southeast Alabama, Southwest Georgia, and western portions of the Florida Panhandle. There appeared to be a secondary cold front (a fairly common occurrence when arctic air moves southward) that helped accelerate the advance of the cold air and changeover to freezing/frozen precipitation during the evening.

During the night (January 28th – January 29th) the cold air continued to spread south and east. By the morning of January 29th, many locations in our forecast area had changed to either freezing rain, sleet, or a mix. Much drier air in the mid to upper atmosphere overspread Southeast Alabama and Southwest Georgia. This caused the precipitation to end there during the morning hours. However, light wintry precipitation lingered across the Florida Big Bend throughout the day, as the upper level trough continued to approach from the west. The combination of the unusually cold air and thick clouds prevented many locations from getting above freezing, a very rare occurrence in the Deep South.

The Wednesday morning surface chart showed the main cold front finally on the move again through South Florida, while high pressure and very cold, dry air continued to infiltrate the Gulf Coast Region. This precipitation tapered off during the evening as the atmosphere dried out.

ALABAMA, Southwest

(AL-Z051) CHOCTAW, (AL-Z053) CLARKE, (AL-Z063) LOWER MOBILE, (AL-Z064) LOWER BALDWIN				
	01/28/14 06:00 CST		0	Ice Storm
	01/29/14 09:00 CST		0	

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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(AL-Z052) WASHINGTON, (AL-Z053) CLARKE, (AL-Z055) MONROE, (AL-Z058) CRENSHAW, (AL-Z061) UPPER MOBILE, (AL-Z062) UPPER BALDWIN, (AL-Z063) LOWER MOBILE, (AL-Z064) LOWER BALDWIN				
	01/28/14 09:00 CST		0	Sleet
	01/29/14 07:00 CST		0	
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(AL-Z051) CHOCTAW, (AL-Z062) UPPER BALDWIN, (AL-Z064) LOWER BALDWIN				
	01/28/14 13:00 CST		0	Winter Storm
	01/29/14 07:00 CST		0	

An area of low pressure moved across the northern Gulf of Mexico January 28th and 29th. This system spread moisture northward across a very cold arctic airmass in place across the deep south. The precipitation fell as a mix of freezing rain, sleet and snow across northwest parts of the area Tuesday afternoon and spread across the remainder of the area Tuesday night and ended Wednesday morning. Precipitation changed to snow across northern counties Tuesday night with freezing rain and sleet across southern areas. 1 to 3 inches of sleet and snow fell across most inland areas with freezing rain accumulations of a one-quarter to one-half an inch near the coast.