

Storm Data and Unusual Weather Phenomena - October 2015

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

(AL-Z004) LAWRENCE

	10/16/15 00:00 CST	0	Wildfire
	10/29/15 00:00 CST	0	

Dry and warm conditions with no precipitation and daytime high temperatures in the 80s preceded a dry cold front that crossed north Alabama on October 16th. When this front passed, northerly winds of 10-15 MPH with gusts to 20 MPH occurred on October 16th as minimum RH values dropped to 20%. As a strong high pressure system moved in behind the cold front, winds increased again on October 17th which combined with RH values close to 20% led to the issuance of a Red Flag Warning.

The surface high pressure system then prevailed for much of the following week from October 18th through October 23rd. Winds that were initially gusting to 10 MPH on October 18th and October 19th, gradually decreased to light southerly surface winds (Note: Some of the wind gusts [October 22nd] that were forecast over the burn site in Spot Forecasts occurred at the Bankhead RAWS site but did not occur at the burn site). The southerly winds led to gradual increase in minimum RH values through the week with minimum RH values dropping close to 35% by October 20th. With the increase in moisture and lack of cloud cover, patchy ground fog was possible during the mornings of October 19th-23rd.

The ridge of high pressure then began breaking on October 23rd with cloud cover beginning to move over the burn site. More opaque and dense cloud cover along with light rain showers developed and moved over the burn site by October 24th. With cloud cover and southerly winds, temperatures were about 10 degrees cooler on October 24th which resulted in high minimum RH values close to 60%. More substantial rain showers and cooler temperatures would then develop and move across the burn site on October 25th, and especially October 26th as an upper low moved across the Gulf of Mexico coast into Alabama. Scattered light rain and generally cool weather with southeast wind gusts up to 15 MPH continued on October 27th. As of the time of this writing (6:00 PM CDT October 27, 2015), approximately 1.60 inches of rain had fallen near the burn site (according to the Bankhead RAWS site).

ALABAMA, Southwest

(AL-Z064) LOWER BALDWIN

	10/26/15 06:23 CST	1K	High Wind (MAX 50 kt)
	10/26/15 12:23 CST	0	

(AL-Z053) CLARKE

	10/26/15 12:50 CST	12K	Strong Wind (MAX 43 kt)
	10/26/15 12:52 CST	0	

The remnants of Hurricane Patricia and an upper level storm system resulted in the development of a strong non tropical low over the northwest Gulf of Mexico. The low produced a long duration of strong southerly winds, which resulted in some isolated minor wind damage.

(AL-Z064) LOWER BALDWIN

	10/26/15 07:00 CST	0	High Surf
	10/26/15 18:00 CST	0	

(AL-Z063) LOWER MOBILE, (AL-Z064) LOWER BALDWIN

	10/26/15 09:54 CST	0	Coastal Flood
	10/27/15 00:00 CST	0	

The remnants of Hurricane Patricia and an upper level storm system resulted in the development of a strong non tropical low over the northwest Gulf of Mexico. The low produced a long duration of strong southerly winds, which produced minor coastal flooding a high surf along portions of the Alabama coast.

CHOCTAW COUNTY --- BUTLER [32.08, -88.22]

	10/31/15 17:08 CST	3K	Thunderstorm Wind (MG 50 kt)
	10/31/15 17:10 CST	0	Source: Mesonet

MOBILE COUNTY --- MOBILE [30.70, -88.08]

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	10/31/15 18:42 CST		3K	Thunderstorm Wind (EG 60 kt)
	10/31/15 18:43 CST		0	Source: Law Enforcement

Winds estimated at 60 mph downed trees on power lines.

A line of thunderstorms moved across the area produced high winds which caused damage in southeast Mississippi and southwest Alabama.