

## Storm Data and Unusual Weather Phenomena - November 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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### GULF OF MEXICO

#### LAGUNA MADRE FROM PORT OF BROWNSVILLE TO ARROYO COLORADO COUNTY --- 2.5 NNW PORT ISABEL [26.10, -97.22]

	11/02/13 00:03 CST	0	0	Marine Thunderstorm Wind (MG 48 kt)
	11/02/13 00:36 CST	0	0	Source: Coast Guard

Strong thunderstorms over the Lower Texas Coastal Waters produced thunderstorm winds and gusts to gale force. KPIL reported a sustained wind of 37 kts with gusts to 46 kts 1203 am CST. The South Padre Island Coast Guard Station reported maximum sustained wind of 38 kts with gusts to 48 kts at 1230 am CST.

**Strong thunderstorms developed and moved southeast across the Lower Texas Coastal Waters late in the evening on November 1st, as a cold front interacted with a moist tropical air mass already in place. Gale force winds and gusts were recorded at KPIL and at the South Padre Island Coast Guard Station.**

#### COASTAL WATERS FROM BAFFIN BAY TO PT MANSFIELD TX OUT 20 NM COUNTY --- 83.2 S S BAFFIN BAY [26.00, -97.29]

	11/22/13 22:45 CST	2K	0	Marine Strong Wind (MG 35 kt)
	11/22/13 23:45 CST	0	0	Source: Coast Guard

A 16 foot pleasure craft took on water during the early evening hours of November 22nd, in the Brownsville Ship Channel, near the Jaime J. Zapata Memorial Boat Ramp A Gale Warning was in effect and gale force wind gusts were recorded at nearby KSPL and the South Padre Island Coast Guard Station. Three men were rescued from the swamped boat with no injuries reported.

**Modified polar air swept from western Canada and across the Lower Texas Coastal Waters on the afternoon of November 22nd. Strong northerly winds behind the front brought gale force winds for several hours after the frontal passage. The gale force winds led to a boat taking on water in the Laguna Madre late that afternoon.**

### TEXAS, South

#### (TX-Z249) JIM HOGG, (TX-Z250) BROOKS, (TX-Z251) KENEDY, (TX-Z252) STARR, (TX-Z253) HIDALGO, (TX-Z254) WILLACY, (TX-Z255) CAMERON, (TX-Z256) COASTAL WILLACY, (TX-Z257) COASTAL CAMERON

	11/01/13 00:00 CST	0	0	Drought
	11/30/13 23:59 CST	0	0	

Shower and thunderstorm activity during early November provided welcome rain and allowed for some improvement in drought conditions. The combination of an approaching surface cold front, and upper level disturbance, sufficient moisture and a weak afternoon seabreeze triggered scattered to numerous shower and thunderstorms on the 6th. A band of 2 to 4 inches fell over portions of Kenedy County extending through the northern and western rural areas of Hidalgo County. Storms developing along the weak seabreeze produced very heavy rains of between 2 to near 5 inches over southern Cameron County. Rainfall over the rest of the region averaged an inch or less. A small area of exceptional (D4) drought conditions which extended across extreme southwest Hidalgo County was removed, but Extreme (D3) drought conditions extended across southeast Jim Hogg, southeast Kenedy, southeast Starr and southwest Hidalgo counties and Severe drought (D2) conditions extended across coastal Cameron, Willacy, Kenedy, Brooks, Jim Hogg, central Starr and eastern Hidalgo counties.

#### HIDALGO COUNTY --- 3.1 SSE FAYSVILLE [26.38, -98.12]

	11/01/13 19:18 CST	15K	0	Thunderstorm Wind (EG 52 kt)
	11/01/13 19:19 CST	0	0	Source: Broadcast Media

Four mobile homes, in poor condition and not anchored, were damaged in Doolittle near the intersection of Ingle Road and Doolittle Road. Two mobile homes lost tin roofs, one was moved off of its foundation, and one rolled over on its side. Estimated winds of 55 to 60 mph.

**A thunderstorm developed ahead of a cold front interacting with a moist tropical air mass. The storm strengthened as it moved southeast across central Hidalgo County and produced a microburst with winds of 55 to 60 mph damaging several mobile homes.**

#### CAMERON COUNTY --- 0.7 W PORTWAY ACRES [25.92, -97.48], 1.0 SSW EVAN [25.97, -97.50]

	11/06/13 21:20 CST	0	0	Heavy Rain
	11/06/13 22:30 CST	0	0	Source: NWS Employee

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Two to four inches of rain fell in less than 90 minutes along the Highway 77 corridor in Brownsville. Reports were received from various sources including an offduty NWS employee. Several cars were reported stranded at the intersection of Pablo Kisel and Morrision road, where over a foot of water covered the road. A foot and a half of water was reported by a trained spotter covering the road in the 700 block of Paredes Line. A NWS employee reported flooding covering the frontage road along Hwy 77, near Sunrise Mall and 2 to 4 inches of water covering the road and water up to the top of the curb at the intersection of Boca Chica and Old Port Isabel Road.				

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**CAMERON COUNTY --- 1.7 SW BROWNSVILLE [25.90, -97.52], 1.8 WSW BROWNSVILLE [25.91, -97.53], 2.2 S MAUDLIN ARPT [25.94, -97.54], 1.9 NNW BROWNSVILLE [25.95, -97.51], 0.8 NNE BROWNSVILLE [25.93, -97.49], 0.3 NE BROWNSVILLE [25.92, -97.50]**

11/06/13 21:20 CST	10K	Flash Flood (due to Heavy Rain)
11/06/13 22:40 CST	0	Source: Emergency Manager

Between 4.23 to 4.96 inches of rainfall fell in less than 90 minutes across western Brownsville, leading to flash flooding across that portion of the city. The Brownsville Emergency Operations Center reported several businesses with some water in them, numerous thoroughfares with several inches to nearly 2 feet of water on them across the area limiting travel. During the peak of the rains, 42 streets had flooding that reduced travel to one lane or less. Some resacas were also reported to have reached bankful or flooded low lying grassy areas.

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**CAMERON COUNTY --- 3.1 E OLMITO [26.02, -97.48], 1.0 SSW EVAN [25.97, -97.50]**

11/06/13 21:20 CST	0	Heavy Rain
11/06/13 22:30 CST	0	Source: NWS Employee

Two to four inches of rain fell in less than 90 minutes across Brownsville. A NWS employee reported 8 inches of water covering the road at the FM 511 and Paredes Line Rd intersection.

**A weak seabreeze enhanced lift along and east of the Highway 77/Interstate 69E corridor between San Benito and Brownsville a little after 2 pm. By 230 pm, blinding rain engulfed Farm to Market 511, State Route 100, and other locations between Los Fresnos and north Brownsville. The storm developed and moved slowly, edging into the core of Brownsville for more than an hour before gradually drifting southwest into northeastern Tampaulipas. In an hour and a half or less, between two and just under five inches of rain fell from Los Fresnos through western Brownsville. Numerous instances of flooding quickly ensued.**

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**(TX-Z249) JIM HOGG, (TX-Z250) BROOKS, (TX-Z251) KENEDY, (TX-Z252) STARR, (TX-Z253) HIDALGO, (TX-Z254) WILLACY**

11/12/13 00:00 CST	0	Drought
11/25/13 23:59 CST	0	

Significant rainfall during the second half of November allowed for significant improvement in drought conditions across the Rio Grande Valley and Deep South Texas. A strong cold front moving through Deep South Texas on the 22nd produced a line of showers and strong thunderstorms. Some of the thunderstorm activity produced very heavy rainfall, mainly over portions of Kenedy, Willacy and Cameron counties. Rainfall amounts during the month of November were above normal over much of the area. Rainfall totals ranged from 2 to 6 inches, with central Cameron County reporting near 8 inches. Rainfall amounts across the extreme western sections of the region were near an inch or less. Moderate (D1) drought conditions to Severe (D2) drought conditions extended across Willacy, Kenedy, Hidalgo, Brooks, Starr, Jim Hogg and Zapata counties. Areas of Extreme drought (D3) were reduced but remained over southwestern Hidalgo, southeastern Starr, southwest Jim Hogg, northeast Willacy, and SE Kenedy counties.

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**WILLACY COUNTY --- 0.2 WNW RAYMONDVILLE [26.48, -97.78], 0.2 WNW RAYMONDVILLE [26.48, -97.78], 0.2 NW RAYMONDVILLE [26.48, -97.78], 0.2 NW RAYMONDVILLE [26.48, -97.78]**

11/22/13 14:30 CST	1K	Flash Flood (due to Heavy Rain)
11/22/13 16:00 CST	0	Source: Emergency Manager

Slow moving thunderstorms dropped over three inches of rain over the Raymondville area in the matter of a few hours, with a nearby COOP site reporting 3.2 inches. This rainfall caused water to rise rapidly in downtown Raymondville. The Willacy County emergency manager reported several inches of water entering the Raymondville City Hall building.

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**(TX-Z255) CAMERON**

11/22/13 14:40 CST	8K	Strong Wind (MAX 34 kt)
11/22/13 16:35 CST	0	

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**CAMERON COUNTY --- 2.0 ESE PALMETAL [26.17, -97.65], 1.6 WNW PRIMERA [26.23, -97.69]**

11/22/13 14:45 CST	0	Heavy Rain
11/22/13 19:00 CST	0	Source: Law Enforcement

More than 5 inches of rain fell across portions of Harlingen during a 5 hour period causing localized flooding of low lying and poor drainage spots. Local law enforcement reported water over a lower bridge on Breedlove Street, water over the road at the intersection of Polk Avenue and Highway 77, on Hayne, Tomas Lane and Marck Circle. There were numerous reports on social media reporting water over the road at the intersection of Ed Carey and Business 77/Sunshine Strip.

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<b>CAMERON COUNTY --- 2.4 SW COMBES [26.23, -97.76], 1.1 WSW HARLINGEN [26.17, -97.72]</b>				
	11/22/13 14:45 CST		0	Heavy Rain
	11/22/13 19:00 CST		0	Source: Law Enforcement

More than 5 inches of rain fell across portions of Harlingen during a 5 hour period causing localized flooding of low lying and poor drainage spots. Local law enforcement reported 5 to 6 inches of water in Primera and noted that water was approaching homes of residents.

**Modified polar air swept from western Canada into the Rio Grande Valley on the 22nd. The shallow cold air mass provided the necessary wedge for sufficient mid and upper level atmospheric energy to override; as the air mass arrived into the lingering heat and humidity. The added moisture aided in the development of the initial thunderstorms. Enhanced convergence behind the initial burst of heavy rain produced gusty thunderstorm winds and prolonged moderate to heavy rainfall with embedded lightning well into the evening three to six inches had fallen across much of the Highway 77/Interstate 69 E corridor.**

<b>(TX-Z249) JIM HOGG, (TX-Z250) BROOKS, (TX-Z251) KENEDY, (TX-Z252) STARR, (TX-Z253) HIDALGO, (TX-Z254) WILLACY</b>				
	11/26/13 00:00 CST		0	Drought
	11/30/13 23:59 CST		0	

The benefits of significant rainfall earlier in November continued to be felt the last week of the month. Drought conditions continued to improve despite little to no rain falling the last week of November. Moderate (D1) drought conditions to Severe (D2) drought conditions extended across Willacy, Kenedy, Hidalgo, Brooks, Starr, Jim Hogg and Zapata counties. Areas of Extreme drought (D3) were reduced but remained over southwest Jim Hogg and Brooks counties and southeast Kenedy County.