

## Storm Data and Unusual Weather Phenomena - May 2014

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

**LAGUNA MADRE FROM 5NM N OF PT MANSFIELD TO BAFFIN BAY TX COUNTY --- 33.1 S S BAFFIN BAY [26.72, -97.42]**

05/09/14 20:50 CST		0		Marine Thunderstorm Wind (EG 52 kt)
05/09/14 21:00 CST		0		Source: Mariner

Merchant mariner reported a 60 mph gust on the Intercoastal Waterway at 950 pm CDT. Nearby TCOON site at Rincon del San Jose reported a 40 mph gust at 10 pm CDT.

**LAGUNA MADRE FROM PORT OF BROWNSVILLE TO ARROYO COLORADO COUNTY --- 9.1 NNW PORT ISABEL [26.18, -97.28]**

05/09/14 21:11 CST		0		Marine Thunderstorm Wind (MG 48 kt)
05/09/14 21:11 CST		0		Source: ASOS

ASOS site at KPIL in Bayview reported a 55 mph wind gust at 1011pm CDT. The location is a proxy for similar winds in Laguna Madre (3 miles to the east), as the squall line progressed onto South Padre Island and produced even stronger gusts.

**LAGUNA MADRE FROM PORT OF BROWNSVILLE TO ARROYO COLORADO COUNTY --- 2.0 E PORT ISABEL [26.07, -97.17]**

05/09/14 21:24 CST		0		Marine Thunderstorm Wind (MG 50 kt)
05/09/14 21:54 CST		0		Source: Coast Guard

Wind speed equipment measured a peak gust of 50 knots at 924 PM CST, with a 30 minute period of gale to near-storm force gusts, as the squall line raced across Laguna Madre Bay.

**COASTAL WATERS FROM PT MANSFIELD TO RIO GRANDE RIVER TX OUT 20NM COUNTY --- 10.6 E SOUTH PADRE ISLAND [26.08, -96.96]**

05/09/14 22:30 CST		0		Marine Thunderstorm Wind (EG 50 kt)
05/09/14 22:30 CST		0		Source: Mariner

Coast Guard relayed a report of a 50 knot wind gust from a boat 12 miles east of the South Padre Island Jetty.

**A squall line that moved across Deep South Texas and the Rio Grande Valley surged over the Lower Texas Coastal Waters on the evening of May 9th and just after midnight May 10th. The storms brought strong and gusty winds of gale force and above.**

**LAGUNA MADRE FROM PORT OF BROWNSVILLE TO ARROYO COLORADO COUNTY --- 1.3 ENE PORT ISABEL [26.08, -97.18], 8.4 NW PORT ISABEL [26.16, -97.29]**

05/13/14 08:23 CST		0		Marine Thunderstorm Wind (MG 38 kt)
05/13/14 10:15 CST		0		Source: AWOS

Gale force gusts were recorded by the nearby ASOS sensor at KPIL in Bayview and the AWOS sensor at KSPL on South Padre Island . The first gusts began at 923 am CDT and gale force gusts or higher continued through 1115 am CDT, with the maximum wind gust of 38 knots recorded at 955 am CDT by the AWOS sensor at KSPL.

**A slow moving cold front and high atmospheric moisture content combined with an upper trough and increasingly diffluent flow to allow for the development of strong and severe thunderstorms. A line of thunderstorms moving across the coastal waters brought gale force and higher winds gusts to the Lower Texas Coastal Waters.**

**LAGUNA MADRE FROM PORT OF BROWNSVILLE TO ARROYO COLORADO COUNTY --- 8.9 NNW PORT ISABEL [26.18, -97.27]**

05/28/14 14:36 CST		0		Marine Thunderstorm Wind (MG 58 kt)
05/28/14 15:15 CST		0		Source: ASOS

Multiple gale force gusts or higher were reported across the Laguna Madre from the Port of Brownsville to the Arroyo Colorado beginning at 326 pm CDT and ending at 415 pm CDT. The maximum gust of 58 knots recorded was at the ASOS at KPIL in Bayview at 357 pm CDT.

**WATERS FROM BAFFIN BAY TO PT MANSFIELD TX EXT FROM 20 TO 60NM COUNTY --- 45.1 ESE S BAFFIN BAY [26.97, -96.69]**

05/28/14 14:46 CST		0		Marine Thunderstorm Wind (MG 42 kt)
05/28/14 14:46 CST		0		Source: Buoy

Buoy 42020 reported a wind gust of 42 kts.

**Northerly flow on the back side of a departing upper level disturbance, combined with unstable air to create strong to severe thunderstorms that developed and surged south across the Lower Texas Coastal Waters on the afternoon of the May 28th. Wind gusts reached gale force and higher at several locations across the Laguna Madre and the Gulf Waters.**

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### TEXAS, South

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

05/06/14 00:00 CST		0		Drought
05/12/14 23:59 CST		0		

During a rather dry April and first week of May, little to no rainfall was recorded over the center of the Rio Grande Valley and Deep South Texas. The lack of rain, combined with temperatures in the 90s and lower 100s and afternoon humidity in the teens and twenties, as well as periods of gusty north winds up to 25 mph, allowed the return of Severe (D2) drought conditions to return to the region to start May. The remainder of the region remained dry with D1 and D0 conditions expanding in area.

The severe D2 drought conditions were short lived as rain fell across the region on May 9th and 10th, eliminating the D2 conditions by the 13th.

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**ZAPATA COUNTY --- 2.2 N ZAPATA ARPT [26.91, -99.27]**

05/09/14 17:34 CST		0		Thunderstorm Wind (EG 52 kt)
05/09/14 17:43 CST		0		Source: Law Enforcement

Local law enforcement reported the roof of a bakery partially removed and blown onto Highway 83 in Zapata.

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**JIM HOGG COUNTY --- HEBBRONVILLE [27.32, -98.68]**

05/09/14 17:40 CST		0		Thunderstorm Wind (EG 52 kt)
05/09/14 18:05 CST		0		Source: Emergency Manager

Jim Hogg County EM reported powerlines down over the roadway in Hebronville.

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**JIM HOGG COUNTY --- 3.5 SSW HEBBRONVILLE [27.27, -98.70]**

05/09/14 17:47 CST		0		Thunderstorm Wind (EG 52 kt)
05/09/14 17:54 CST		0		Source: Law Enforcement

Local law enforcement reported wind damage to trailers and trees in the South Fork Estates at the intersection of FM 3073 and Highway 16.

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**STARR COUNTY --- 0.5 ENE RIO GRANDE CITY [26.38, -98.81]**

05/09/14 18:28 CST		0		Thunderstorm Wind (EG 52 kt)
05/09/14 18:40 CST		0		Source: Public

Public reported multiple large tree limbs down FM 755.

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**BROOKS COUNTY --- 3.6 ENE FALFURRIAS [27.26, -98.10], 1.6 SW FALFURRIAS [27.21, -98.16]**

05/09/14 18:44 CST		0		Thunderstorm Wind (EG 52 kt)
05/09/14 18:58 CST		0		Source: Law Enforcement

Local law enforcement reported several power lines downed in Falfurrias and in the county on Highway 206.

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**BROOKS COUNTY --- 3.6 ENE FALFURRIAS ARPT [27.22, -98.06], 2.9 E FALFURRIAS ARPT [27.20, -98.07]**

05/09/14 18:44 CST		0		Thunderstorm Wind (EG 52 kt)
05/09/14 18:58 CST		0		Source: Law Enforcement

Local law enforcement reported several power lines downed in the county on Highway 219 and 223.

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**HIDALGO COUNTY --- 1.9 W MISSION [26.22, -98.35]**

05/09/14 19:00 CST		7K		Thunderstorm Wind (EG 50 kt)
05/09/14 19:00 CST		0		Source: Broadcast Media

Media reported damage to a corrugated metal building, near the intersection of Inspiration Road and Highway 83 in Mission. At approximately the same time, one large limb weighing at least 100 pounds was blown off a mesquite tree nearby.

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**HIDALGO COUNTY --- 3.2 ENE CHIHUAHUA [26.23, -98.37]**

05/09/14 19:23 CST		1K		Thunderstorm Wind (EG 43 kt)
05/09/14 19:40 CST		0		Source: Law Enforcement

Local law enforcement reported signs blown down on Interstate 2 in Palmview.

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<b>HIDALGO COUNTY --- EDINBURG [26.30, -98.17]</b>	05/09/14 19:23 CST		5K	Thunderstorm Wind (EG 50 kt)
	05/09/14 19:35 CST		0	Source: Fire Department/Rescue

Several power poles down and power lines tangled in trees were reported throughout the city of Edinburg by the local fire department. Radar estimated potential wind gusts in excess of 50 knots (58 mph) from the bow echo within the squall line, which would imply such gusts in pockets despite the measurement at the Edinburg International Airport, about 8 miles north-northeast of town, of 39 knots (45 mph).

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<b>HIDALGO COUNTY --- MISSION [26.22, -98.32]</b>	05/09/14 19:23 CST		5K	Thunderstorm Wind (EG 50 kt)
	05/09/14 19:40 CST		0	Source: Law Enforcement

Local law enforcement had several reports of trees and powerlines down in Mission. The peak wind gust at McAllen/ Miller Airport was 43 knots (48 mph) at 1935 CST, but from the multiple data reports it is assumed that pockets of wind reached 50 knots or higher in portions of Mission.

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<b>WILLACY COUNTY --- 0.9 NE LA SARA [26.48, -97.91]</b>	05/09/14 19:32 CST		0	Thunderstorm Wind (EG 52 kt)
	05/09/14 19:40 CST		0	Source: Law Enforcement

Local law enforcement reported a semi truck blown over at FM 1015 and Highway 186.

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<b>HIDALGO COUNTY --- EDCOUCH [26.30, -97.97]</b>	05/09/14 19:40 CST		0	Thunderstorm Wind (EG 52 kt)
	05/09/14 19:50 CST		0	Source: Trained Spotter

Spotter reported wind gusts of an estimated 55 to 60 mph in Edcouch.

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<b>WILLACY COUNTY --- LYFORD [26.42, -97.78]</b>	05/09/14 19:45 CST		0	Thunderstorm Wind (EG 52 kt)
	05/09/14 19:52 CST		0	Source: Law Enforcement

Local law enforcement reported trees down in the city of Lyford.

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<b>CAMERON COUNTY --- 2.7 ENE PORT ISABEL [26.09, -97.16]</b>	05/09/14 21:24 CST		0	Thunderstorm Wind (MG 50 kt)
	05/09/14 21:34 CST		0	Source: Coast Guard

The U.S. Coast Guard weather station, on the bayside of South Padre Island just south of the Queen Isabella Causeway, recorded a wind gust of 50 knots (58 mph). Shortly after, power outages were reported across the southern portion of South Padre Island.

**A weak upper level disturbance approached South Texas and provided just enough mid-level drying and cooling to destabilize the atmosphere during the hottest part of the day. Scattered thunderstorms quickly developed along and just east of the mountains by 4 to 5 pm and by early evening, storms organized across the South Texas Brush Country and the Rio Grande Plains. Energy and boundaries from the storms combined with speedy west to east winds well above the surface and organized them into a line just before sunset. Initial lines along the forming line produced strong gusty winds that caused pockets of damage in Jim Hogg, Zapata, and Starr County. Two clusters of developing storms merged into a northeast to southwest oriented line at around 7 pm, extending from western Starr County through western Brooks County. The line would plow eastwards, with a number of individual stronger cells embedded within the line. As the line neared Hidalgo County, the strongest cells were found north of the Rio Grande Valley. The action continued to press southeast during the mid-evening. After a slight weakening, the squall reintensified as it moved east of US 77 from southern Kenedy County to the Rio Grande River. The strongest measured wind gusts occurred between 10 and 1130 pm in these areas, with many locations recording gusts over 50 mph. The storms knocked out power to some communities, including parts of South Padre Island, and caused significant disruption to evening flights in and out of Harlingen and Brownsville.**

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<b>(TX-Z257) COASTAL CAMERON</b>	05/25/14 15:10 CST	1	0	Rip Current
	05/25/14 18:25 CST	2	0	

Direct Fatalities: M40IW

Three individuals were swimming in the Gulf of Mexico on South Padre Island, during a day with a moderate risk of rip currents. At 410 pm CDT, a 40 year old male became distressed while swimming between the first and second sandbars ¼ of a mile north of Beach

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Access 5 on South Padre Island. The swimmer was pulled from the surf and CPR was initiated by rescue personnel. While en-route to the hospital, CPR was unsuccessful and the swimmer passed away. At 512 pm CDT, a 13 year old male became distressed while swimming ½ of a mile north of the South Padre Island Jetty. The swimmer was pulled from the surf conscious and EMS personnel responded to the incident. The juvenile was released to the custody of his guardians after receiving treatment at the scene. At 622 pm CDT, an 11 year old male became distressed while swimming at Andy Bowie County Park. The swimmer was pulled from the surf conscious and EMS personnel responded to the incident. The juvenile was released to the custody of his guardians after receiving treatment on scene.

**BROOKS COUNTY --- 0.4 ESE FALFURRIAS [27.23, -98.14], 1.6 W FALFURRIAS [27.23, -98.18]**

05/27/14 18:50 CST	10K	Thunderstorm Wind (EG 52 kt)
05/27/14 19:00 CST	0	Source: Emergency Manager

The Brooks County Emergency Manager and local law enforcement reported numerous trees down near the intersection of Lasater Street and Rice Street and along St. Mary's Street. Structural damage to business signs was also reported on Center Street.

**BROOKS COUNTY --- FALFURRIAS [27.23, -98.15]**

05/27/14 19:00 CST	0	Hail (1.75 in)
05/27/14 19:05 CST	0	Source: Public

Golf ball sized hail was reported in Falfurrias by the public.

**BROOKS COUNTY --- FALFURRIAS ARPT [27.20, -98.12]**

05/27/14 19:01 CST	0	Thunderstorm Wind (MG 53 kt)
05/27/14 19:02 CST	0	Source: AWOS

The AWOS at Brooks County Airport reported a 53 knot wind gust.

A single supercell thunderstorm developed in south central Texas during the late afternoon of May 27th and travelled into northern Brooks County around sunset before dissipating near Encino. Several reports of wind damage, including numerous fallen trees and limbs, business sign damage, and golf ball sized hail were received from Falfurrias. Intense rainfall which may have exceeded two inches in an hour or less caused flooding for poor drainage areas, with one report of up to 3 feet of water, some which may have come close to entering property.

**HIDALGO COUNTY --- LA JOYA [26.27, -98.57]**

05/28/14 14:00 CST	0	Heavy Rain
05/28/14 15:00 CST	0	Source: Public

Approximately an hour of heavy rainfall, with rainfall totals approaching 3 inches, produced urban flooding in La Joya between 330 and 4 pm CDT. Reports of one to two feet of standing water in roadways were received.

**CAMERON COUNTY --- PORT ISABEL [26.07, -97.20]**

05/28/14 15:08 CST	0	Hail (0.75 in)
05/28/14 15:08 CST	0	Source: Public

Public reported penny sized hail in Port Isabel.

**CAMERON COUNTY --- PORT ISABEL ARPT [26.17, -97.35]**

05/28/14 15:10 CST	0	Thunderstorm Wind (MG 58 kt)
05/28/14 15:10 CST	0	Source: ASOS

The ASOS at the Port Isabel Airport in Bayview reported a 58 knot wind gust.

**CAMERON COUNTY --- LAGUNA VISTA [26.10, -97.30]**

05/28/14 15:15 CST	10K	Lightning
05/28/14 15:21 CST	0	Source: Law Enforcement

Local law enforcement officials reported two house fires started by lightning strikes in the town of Laguna Vista.

**CAMERON COUNTY --- 0.4 SW BROWNSVILLE [25.92, -97.50], 1.4 SSE BROWNSVILLE [25.90, -97.49]**

05/28/14 15:35 CST	0	Heavy Rain
05/28/14 16:15 CST	0	Source: Emergency Manager

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Almost an hour of heavy rain fell across Brownsville during the late afternoon hours of May 28th. CoCoRaHS observers reported between 2 and a little over 2.5 inches of rain across western Brownsville. The downpours resulted in streets in downtown Brownsville being covered in as much 18 inches of water, especially near Palm Boulevard, where trash cans were reported floating along the roadway.

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**CAMERON COUNTY --- 1.0 ENE BROWNSVILLE [25.93, -97.49]**

05/28/14 15:35 CST	0	Thunderstorm Wind (EG 52 kt)
05/28/14 15:37 CST	0	Source: NWS Employee

NWS employee reported several one to two foot diameter trees snapped with estimated 60 mph wind gusts.

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**STARR COUNTY --- 2.8 NNE OLNOS [26.41, -98.77]**

05/28/14 17:20 CST	0	Heavy Rain
05/28/14 19:15 CST	0	Source: Fire Department/Rescue

Heavy rain fell for almost two hours across Rio Grande City during the early evening hours of May 28th. The Rio Grande City Fire Department reported one foot of water on the road near FM 755 and Embassy Street. Official rainfall reports from the COOP observer in Rio Grande City showed 2.6 inches of rain fall, with an unofficial report of 3.74 inches near FM 755.

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**STARR COUNTY --- 3.0 N RIO GRANDE CITY [26.42, -98.82]**

05/28/14 18:25 CST	0	Hail (1.75 in)
05/28/14 18:30 CST	0	Source: Trained Spotter

Trained spotter reported quarter size hail and provided a video that suggested hail up to half dollar size fell.

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**STARR COUNTY --- 3.0 N RIO GRANDE CITY [26.42, -98.82]**

05/28/14 18:25 CST	0	Thunderstorm Wind (EG 52 kt)
05/28/14 18:30 CST	0	Source: Trained Spotter

Trained spotter reported wind gusts of 50 to 60 mph in Rio Grande City.

**Northerly flow on the back side of a departing upper level disturbance, combined with hot, humid, unstable air along the Rio Grande to promote several areas of strong to severe thunderstorms. More than an hour of heavy rainfall produced urban flooding in La Joya between 330 and 4 pm, with high water continuing through 430 pm. The large storm cell surged from northeast Cameron County through Bayview, then on into Brownsville between 4 and 445 pm. Additional cells formed on outflows and continued the heavy rains west of Harlingen through around 6 pm, with between 3.25 and 4.7 inches having fallen. Scattered reports of large hail, urban flooding, frequent cloud to ground lightning strikes, and pockets of wind damage to tree limbs and power lines was common.**

The last surge of intense storms occurred just before sunset, as remnant boundaries fired in a small area of southern Starr County, around and just north of Rio Grande City. An intense but brief updraft surged into the storm and resulted in reports of quarter sized hail or larger.