



National Weather Service

Storm Data and Unusual Weather Phenomena



May 2005

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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GULF OF MEXICO

GMZ235 Port O'Connor	Pt O'Connor To Aransas Pass 08	1654CST 1700CST			0	0			Marine Tstm Wind (MG40)
Recorded by Port Oconnor TCOON site.									
GMZ235 Port O'Connor	Pt O'Connor To Aransas Pass 08	1854CST 1912CST			0	0			Marine Tstm Wind (MG40)
Recorded by Port Oconnor TCOON site.									
GMZ230 Baffin Bay	Corpus Christi To Baffin Bay 08	1936CST 1948CST			0	0			Marine Tstm Wind (MG35)
Recorded by Baffin Bay TCOON site.									
GMZ235 Port O'Connor	Pt O'Connor To Aransas Pass 08	2000CST			0	0			Marine Tstm Wind (MG39)
Recorded by Port Oconnor TCOON site.									
GMZ235 6 W Mesquite Bay to 7 W Mesquite Bay	Pt O'Connor To Aransas Pass 16	1110CST 1120CST			0	0			Waterspout
Public and law enforcement witnessed waterspout develop at the mouth of St. Charles Bay, just off of Goose Island State Park. The waterspout moved slowly southwest, approximately 1 mile, into Aransas Bay and dissipated.									
GMZ230 Baffin Bay	Corpus Christi To Baffin Bay 29	1736CST			0	0			Marine Tstm Wind (MG37)
Recorded by Baffin Bay TCOON site.									
GMZ230 South Bird Island	Corpus Christi To Baffin Bay 29	1736CST			0	0			Marine Tstm Wind (MG47)
Recorded by S. Bird Island TCOON site.									
GMZ230 Baffin Bay	Corpus Christi To Baffin Bay 29	1748CST			0	0			Marine Tstm Wind (MG35)
Recorded by Baffin Bay TCOON site.									
GMZ230 South Bird Island	Corpus Christi To Baffin Bay 29	1748CST			0	0			Marine Tstm Wind (MG41)
Recorded by S. Bird Island TCOON site.									
GMZ230 South Bird Island	Corpus Christi To Baffin Bay 29	1800CST			0	0			Marine Tstm Wind (MG48)
Recorded by S. Bird Island TCOON site.									
GMZ230 South Bird Island	Corpus Christi To Baffin Bay 29	2218CST			0	0			Marine Tstm Wind (MG40)
Recorded by S. Bird Island TCOON site.									
GMZ230 South Bird Island	Corpus Christi To Baffin Bay 29	2300CST			0	0			Marine Tstm Wind (MG40)
Recorded by S. Bird Island TCOON site.									



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<u>GULF OF MEXICO</u>									
<u>TEXAS, Mid - South</u>									
Victoria County Nursery	08	1440CST			0	0			Hail(1.00)
Live Oak County Three Rivers	08	1502CST			0	0			Hail(1.00)
Victoria County 7 NE Nursery	08	1505CST			0	0			Hail(1.00)
Live Oak County Ray Pt	08	1520CST			0	0			Hail(1.00)
Victoria County Victoria	08	1524CST			0	0			Hail(1.00)
			Quarter-sized hail on north side of city.						
Victoria County 6 N Victoria	08	1615CST			0	0			Hail(1.00)
			Minor hail damage reported to cars.						
Victoria County 6 N Victoria	08	1615CST			0	0			Thunderstorm Wind (EG52)
San Patricio County Mathis	08	1630CST			0	0			Hail(1.75)
			Penny-sized hail with a few golfball-sized hail reported.						
Live Oak County Lagarteo	08	1655CST			0	0			Hail(0.88)
			Penny to nickle-sized hail reported.						
Nueces County 10 NW Corpus Christi	08	1702CST			0	0			Hail(1.25)
			Reported in Calallen, at Leopard and Callicoate.						
Jim Wells County Orange Grove	08	1715CST			0	0			Hail(1.75)
Jim Wells County Orange Grove	08	1715CST			0	0			Thunderstorm Wind (EG52)
			Power lines and poles reported blown down						
San Patricio County 2 E San Patricio	08	1725CST			0	0			Hail(1.75)
Nueces County 10 NW Corpus Christi	08	1745CST			0	0			Hail(1.75)
			Reported by public in Calallen.						
Nueces County 10 NW Corpus Christi	08	1745CST			0	0			Thunderstorm Wind (EG60)
Nueces County Robstown	08	1755CST 1800CST			0	0			Hail(1.00)



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<u>TEXAS, Mid - South</u>									
Aransas County 5 W Rockport	08	1809CST			0	0			Hail(0.75)
Nueces County Crps Christi Intl Ar	08	1810CST 1820CST			0	0			Hail(1.50)
			Measured at NWS Corpus Christi Forecast Office.						
Nueces County Crps Christi Intl Ar	08	1812CST			0	0			Thunderstorm Wind (MG52)
Nueces County Corpus Christi	08	1819CST			0	0			Hail(1.00)
			Reported at Ada Wilson Hospital at Staples and Carroll Lane.						
Nueces County Corpus Christi	08	1820CST			0	0			Hail(1.00)
			Reported NWS employee at Alameda and Airline.						
Aransas County Rockport	08	1825CST			0	0			Hail(0.75)
Aransas County Rockport	08	1825CST			0	0			Thunderstorm Wind (EG52)
Nueces County Corpus Christi	08	1825CST			0	0			Hail(0.88)
			Reported by NWS employee at Everhart and Saratoga.						
Nueces County Corpus Christi	08	1825CST			0	0			Hail(1.00)
			Reported by NWS employee at Weber and Saratoga.						
Nueces County Corpus Christi	08	1825CST 1830CST			0	0			Hail(1.75)
			Reported in South Corpus Christi at the Lakes Subdivision.						
Nueces County Corpus Christi	08	1827CST			0	0			Hail(1.25)
			Reported by NWS employee near Staples and Holly.						
Nueces County Corpus Christi	08	1828CST			0	0			Hail(1.00)
			Reported at Cimarron and Yorktown.						
Nueces County Corpus Christi	08	1830CST			0	0			Hail(1.50)
			Reported by NWS employee at Airline and Saratoga.						
Nueces County Corpus Christi	08	1830CST			0	0			Hail(1.75)
			Reported by NWS employee at Lipps and Staples.						



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TEXAS, Mid - South

Nueces County

Corpus Christi	08	1835CST			0	0			Hail(1.00)
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Reported by NWS employee at Kings Crossing subdivision.

Nueces County

Corpus Christi	08	1837CST			0	0			Hail(1.00)
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Reported at Flour Bluff Drive and SPID.

Nueces County

Corpus Christi	08	1840CST			0	0			Hail(1.75)
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Reported at Everheart and Yorktown.

A complex of thunderstorms was located over Central Texas early Sunday morning as an upper level disturbance was moving northeast across this area. Outflow winds from this activity left a wind shift boundary across South-Central Texas along the Balcones Escarpment of the Hill Country around 12Z Sunday morning. This outflow boundary continued to slowly move southward into South Texas through the morning hours.

Another upper level disturbance was moving east across Northern Mexico and Southwest Texas during the morning hours. As this system approached South Texas, additional thunderstorms formed along the southward moving boundary. An extensive area of thunderstorms was located from Southeast Texas to near San Antonio by late morning.

The airmass over South Texas became strongly unstable (CAPE values from 2500-3000 J/kg) during the afternoon as temperatures rose into the upper 80s over the Coastal Bend to the upper 90s near the Rio Grande. Dewpoint temperatures were also high across the area with readings in the lower 70s along the coast to the upper 60s over the eastern portions of the Rio Grande Plains.

With the approach of the upper level disturbance, the shear became stronger over South Texas. The surface winds over the Coastal Bend were 25 to 30 mph from the east-southeast during the latter half of the afternoon. (0-6 km shear was 50-55 knots over the Coastal Bend and 0-1 km Storm Relative Helicity was 200-250 m²/s²). The atmospheric environment over South Texas was favorable for the development of supercells.

Scattered severe thunderstorms forming along the boundary moved into the Victoria Crossroads region during the middle afternoon hours between 330 and 530 PM. An intense thunderstorm developed on the southwest edge of the complex of thunderstorms over northern Live Oak County around 345 PM. This thunderstorm quickly became severe as it organized into a supercell just east of the community of Three Rivers. NWS Doppler radar in Corpus Christi showed the development of a hook echo with this thunderstorm around 4 PM. Hail up to the size of quarters along with a funnel cloud was reported with this storm as it moved east from Three Rivers to near Ray Point in east-central Live Oak County. The storm weakened by 5 PM as it moved into central and southern portions of Bee County.

Another severe thunderstorm quickly developed over southern Live Oak County, west of Lake Corpus Christi at 5 PM. The storm produced nickel to golf ball sized hail from Lagarto to Mathis between 530 and 600 PM. The NWS Doppler radar indicated the storm was developing a hook echo near Lagarto around 530 PM. This supercell thunderstorm continued to move to the east-southeast along the Nueces River into Nueces County and eventually the western and southern portions of the Corpus Christi metropolitan area. The storm moved into the southern sections Corpus Christi between 725 and 740 PM, where numerous hail reports were received ranging from quarter to golf ball size with the largest hail around 2 inches in diameter. The severe thunderstorm continued its trek to the east-southeast into extreme Northeast Kleberg County and the coastal waters offshore from the Padre Island National Seashore before finally dissipating around 9 PM.

Another severe thunderstorm developed to the north of this activity over Refugio County around 545 PM and moved southeast toward the coast around 715 PM.

The intense supercell thunderstorm, that formed west of Lake Corpus Christi and eventually moved into Corpus Christi, had the radar appearance of a storm capable of producing a tornado several times during its life cycle. However, outflow winds from the thunderstorm appeared to stay far enough ahead of the low level circulation to prevent tornadogenesis from occurring. Also, slightly more stable near-surface conditions (cooler temperatures) existed over the Coastal Bend behind the seabreeze boundary. This factor may also have precluded tornado development with this supercell.



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TEXAS, Mid - South

and produced very heavy rainfall and hail to the size of quarters over southern Nueces and northern Kleberg Counties. As the sea-breeze propagated to the west of the storms, the low-level wind backed more to the southeast, increasing the low-level wind shear even further. More storms began to develop to the north and west of the initial development as the main upper-level support began to affect the area and the sea-breeze moved farther inland. These storms quickly became severe and remained more scattered in nature for the next several hours, producing hail to the size of golf balls and very heavy rainfall in excess of 4 inches.

Later in the evening, several cells over the Rio Grande Plains merged together to form a quasi-linear convective system which began to bow out as it approached the city of Alice. The rear-inflow jet was translated to the surface and winds of 64 mph were recorded at the Alice ASOS and wind damage was reported across the city. This line continued to move to the east, producing wind damage from Odem, to Robstown, to Kingsville before finally affecting Corpus Christi and moving into the Gulf of Mexico.