



November 2004 Time Local/ Path Length Path Number of Estimated Width Persons Damage **GULF OF MEXICO GMZ255** Matagorda Ship Chnl To Pt Aransas Out 20Nm 0300CST Port O'Connor 0 0 Marine Tstm Wind (EG46) Estimated from nearby by Port O'Connor TCOON site. **GMZ235** Pt O'Connor To Aransas Pass 0300CST Marine Tstm Wind (MG46) Port O'Connor 02 0 0 Measured by Port O'Connor TCOON site. **GMZ230** Corpus Christi To Baffin Bay **Baffin Bay** 0306CST 0 0 Marine Tstm Wind (MG36) Measured by Baffin Bay TCOON site. Pt Aransas To Baffin Bay Tx 20 To 60Nm **GMZ270** 45 SE Baffin Bay 02 0442CST 0 0 Marine Tstm Wind (EG37) Estimated from nearby buoy 42020. **GMZ230** Corpus Christi To Baffin Bay 1 NW Corpus Christi 2136CST 0 0 Marine Tstm Wind (MG39) Measured by White Point TCOON site in Nueces Bay. **GMZ230** Corpus Christi To Baffin Bay **Baffin Bay** 2236CST 0 0 Marine Tstm Wind (MG37) Measured by Baffin Bay TCOON site. **GMZ230** Corpus Christi To Baffin Bay 2305CST $\mathbf{0}$ Marine Tstm Wind (EG34) Port Aransas 0 Estimated from nearby Port Aransas CMAN station. **GMZ255** Matagorda Ship Chnl To Pt Aransas Out 20Nm 2305CST 0 Marine Tstm Wind (EG34) **Port Aransas** 0 Estimated from nearby Port Aransas CMAN station. **GMZ250** Pt Aransas To Baffin Bay Tx Out 20Nm **Port Aransas** 2305CST 0 0 Marine Tstm Wind (MG34) Measured by Port Aransas CMAN station. **GMZ235** Pt O'Connor To Aransas Pass 2305CST **Port Aransas** 0 0 Marine Tstm Wind (EG34) Estimated from nearby Port Aransas CMAN station. **GMZ250** Pt Aransas To Baffin Bay Tx Out 20Nm **Bob Hall Pier** 2324CST 0 0 Marine Tstm Wind (MG34) Measured by Bob Hall Pier TCOON site. **GMZ275** Matagorda Ship Chnl To Pt Aransas Tx 20 To 60Nm 90 SE Port O'Connor 0031CST $\mathbf{0}$ Marine Tstm Wind (EG41) Estimated from nearby Buoy 42019.





Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		ber of sons Injured	Estimat Damaş Property	ed ge Crops	November 2004 Character of Storm
GULF OF MEXICO									
GMZ270 45 SE Baffin Bay	24	nsas To Baffin Ba 0050CST ted from nearby B		60Nm	0	0			Marine Tstm Wind (EG39)
TEXAS, Mid - South									
Goliad County North Central Portion	20	1750CST 1930CST			0	0			Flash Flood
	See ep	isode narrative bel	low for additi	onal details	and rainfall	l totals.			
Victoria County Countywide	20 21 See ep	1830CST 0145CST isode narrative bel	ow for additi	onal details	0 and rainfall	0 l totals.			Flash Flood
Victoria County Victoria	20	1906CST			0	0			Hail(0.75)
Victoria County 3 W Dacosta to 1 W Dacosta	approx		southeast of	Victoria. T					Tornado (F1) odivision, just west of Docasta and stoyed two sheds. Debris from the
Victoria County 1 E Victoria to 1 SE Victoria	20	1936CST 1940CST			0	0			Thunderstorm Wind (EG60)
Goliad County North Central Portion	21	0800CST 1345CST			0	0	20K		Flash Flood





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TEXAS, Mid - South



Washed out roadway from flash flood of Perdido Creek. Further up this road a bridge was completly washed out from Perdido Creek. See episode narrative below for additional details and rainfall totals.

Victoria County Countywide



Flash flood wave along Coleto Creek at the Highway 59 bridge. See episode narrative below for additional details and rainfall totals.

A significant heavy rainfall event occurred across Goliad and Victoria Counties on November 20-21, 2004. Up to 15 inches of rainfall was observed over northern Goliad County which resulted in Flash Flooding along Perdido, Coleto, and Spring Creeks. Flooding along the Garcitas Creek and Guadalupe River also resulted from this significant rainfall. Several high water rescues were





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TEXAS, Mid - South

performed as motorists attemped to cross flooded roadways.

Strong thunderstorms erupted along a nearly stationary frontal boundary that extended across south Texas from near Cotulla to Three Rivers and Victoria Saturday evening (Nov 20). Moist, southerly winds off the Gulf of Mexico in the lower levels of the atmosphere fueled the storms along the front. Meanwhile, in the middle to upper level portions of the atmosphere, winds were nearly parallel to the frontal boundary out of the southwest. This combination caused thunderstorms to regenerate and train over the same areas Saturday evening through early afternoon on Sunday.

In all, doppler radar estimated 10 to 15 inches of rain fell in an 18 hour period beginning Saturday afternoon across northern Goliad County from Charco east to Schroeder and near Coletto Creek Reservoir. This was confirmed by reliable rain gauge reports north of Goliad. In addition, rainfall totals across portions of northwest and central Victoria County reached 5 to 10 inches during this period. Emergency management in both counties reported widespread, major flooding problems with numerous road closers. Several motorists were rescued as they became stranded in rising water. County officials and a NWS Storm Survey reported that several homes were flooded and some bridges across northeast Goliad County were washed out by severe flood waters.

This rainfall led to daily rainfall records on the 20th and 21st at the Victoria Regional Airport. The rainfall also pushed monthly rainfall totals over the all time November record and also pushed the 2004 yearly total over the all time yearly record.

The following are observed totals from cooperative and volunteer NWS observers as well as the Victoria Regional ASOS during this episode, occuring from the late afternoon on Nov 20th through the morning of Nov 21st:

Weesatche 3 mi S: 12.69" Victoria Regional ASOS: 9.32"

Victoria Tanglewood Subdivision: 8.85"

Inez 8 mi WNW: 5.81" Victoria Fire Dept: 6.75" Coleto Creek Reservoir: 4.08"

Goliad: 1.19"

Victoria County Victoria

22	1840CST	0	0	Flash Flood
	2000CST	U	v	I lasti i lood

One to two inches of rainfall fell in about one hour over very saturated grounds in the city of Victoria. Flash flooding of numerous streets throughout the city was observed resulting in several stalled cars in high water. The Victoria Regional Airport recorded 1.56" of rain during this event.

Goliad County									
Charco	23	2000CST	0	0	Hail(0.75)				
Victoria County									
Mission Vly	23	2018CST	0	0	Thunderstorm Wind (EG50)				
	Spotte	Spotters reported wind damage in the Mission Valley area, including larger tree limbs down							
Bee County									
1 S Beeville	23	2030CST	0	0	Hail(1.00)				
Victoria County									
Victoria	23	2038CST	0	0	Thunderstorm Wind (EG60)				
	Law enforcement reported wind damage, including trees down.								
Goliad County									
1 S Goliad	23	2059CST	0	0	Hail(1.75)				
Victoria County									
Victoria	23	2100CST	0	0	Thunderstorm Wind (MG56)				

Measured gust by local t.v. weathernet station at Detar Hospital. Large tree limbs reported down across north side of Victoria. Power outages throughout the county were also reported by spotter.





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Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
TEXAS, Mid - South										
Duval County 8 E Benavides	23	2105CST			0	0			Hail(1.00)	
Duval County 8 E Freer	23	2105CST			0	0			Hail(1.00)	
San Patricio County Mathis	23	2105CST 2107CST			0	0			Hail(1.00)	
Refugio County 8 NW Refugio	23 Report	2106CST ted by county sher	iff along Higl	hway 183 ne	0 ar the Refug	0 gio and Go	oliad county li	ine.	Hail(0.75)	
Victoria County Northeast Portion		2110CST 2215CST d spotter reported y Road 444 one m						r them in	Flash Flood the northeast portion of the	county.
Jim Wells County Ben Bolt	23 County	2130CST y sheriff deputy re	ported broker	n windshield	0 by hail.	0			Hail(2.75)	
Calhoun County 5 NW Port Lavaca	23 Report	2145CST ted by sheriff in th	e Six Mile ar	ea.	0	0			Hail(0.75)	
San Patricio County .5 S Odem	23	2300CST 2305CST			0	0			Hail(0.75)	