

# March 31, 2013, Hail Storms

The combination of moist unstable air, a weak upper level short-wave trough, and a cold front produced severe thunderstorms across South Central Texas during the afternoon hours of Easter Sunday, March 31, 2013. The main impact of the storms was from 1 pm through 8 pm, and all of the severe reports were large hail, ranging from pea- to baseball-size. The areas receiving the most hail were around Knippa and Sabinal (Uvalde County), the northern half of Metro San Antonio – Castle Hills, Alamo Heights, Leon Springs, and Balcones Heights (Bexar County), near Dilley (Frio County), and near Crystal City (Zavala County).

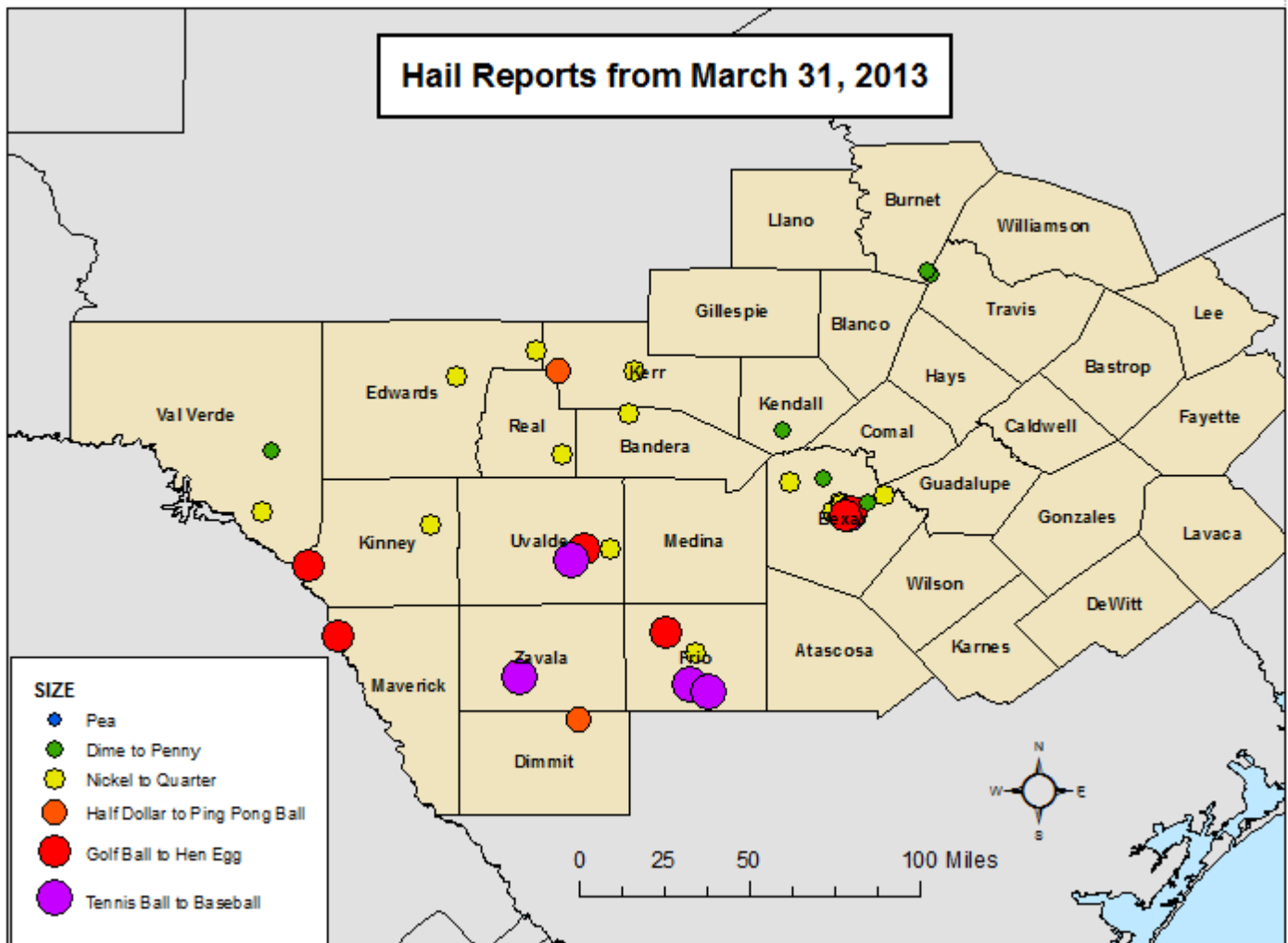


Figure 1. Map of hail reports received for March 31, 2013.

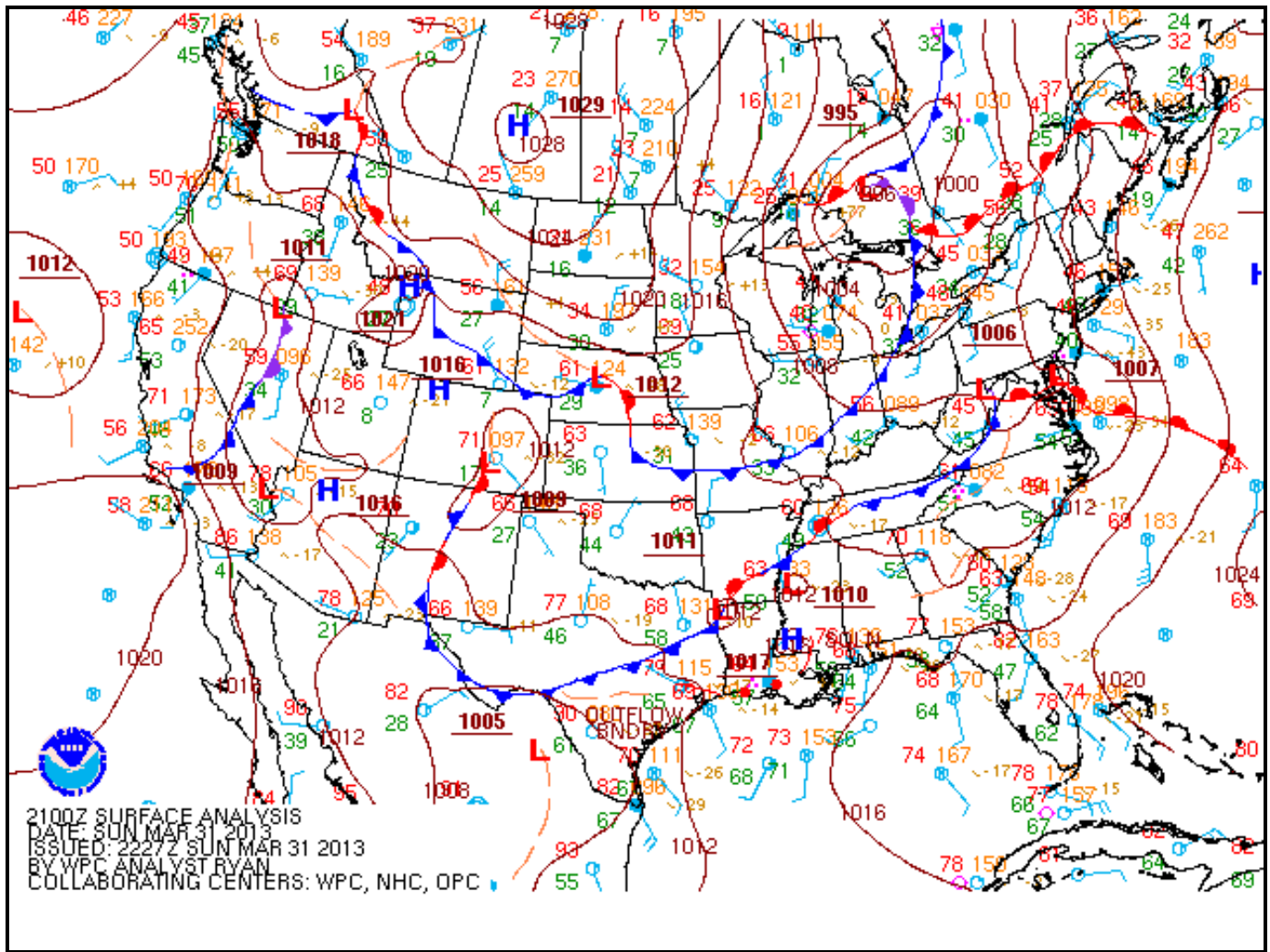


Figure 2. Surface analysis at 5:27 pm on March 31, 2013.

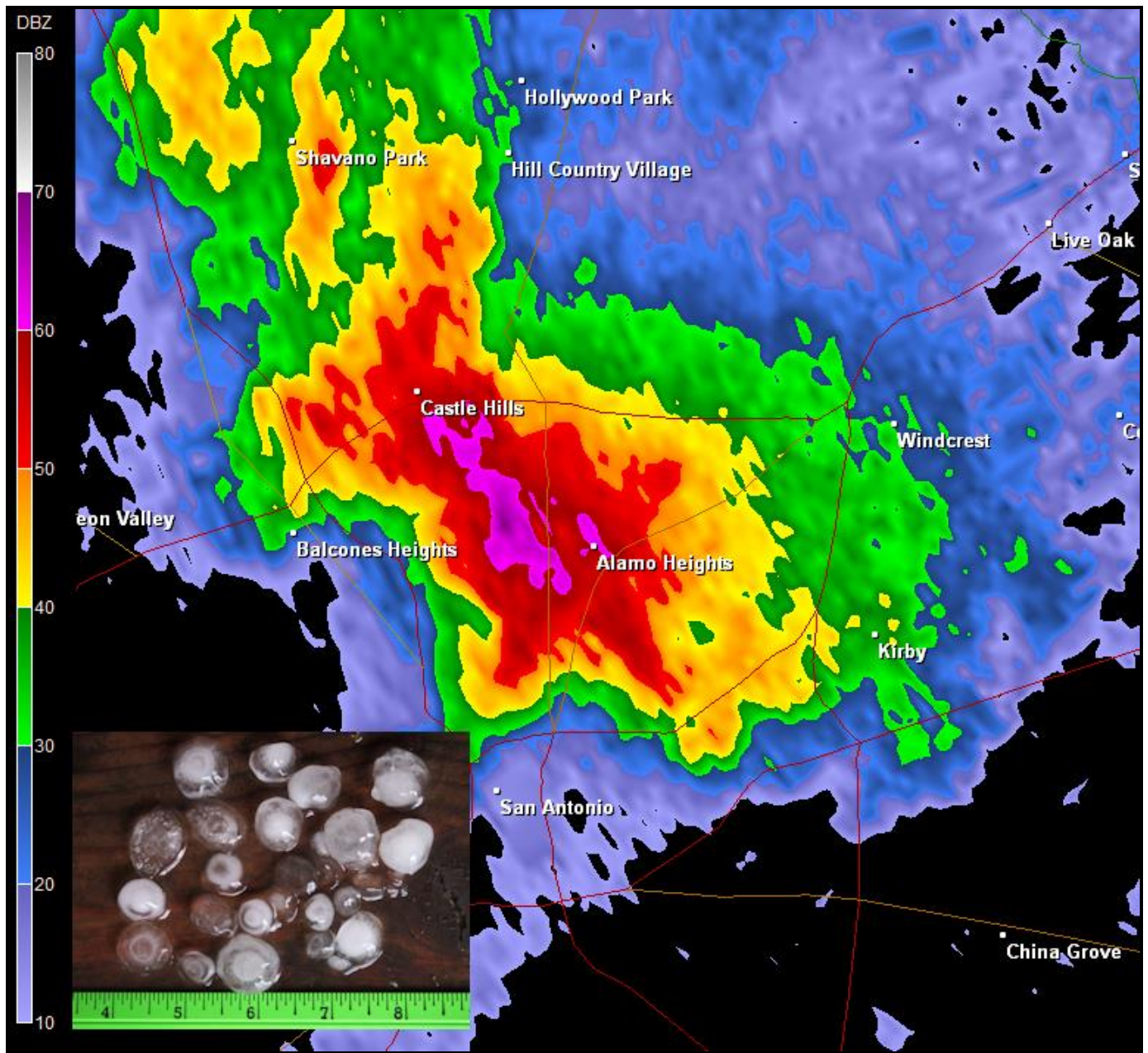


Figure 3. KEWX radar 0.5° elevation base reflectivity at 5:43 pm CDT on March 31, 2013. Inset picture of hail that fell between 5:43 and 5:48 pm CDT from a location between Castle Hills and Alamo Heights.



Figure 4. Hail damage 6 miles NNW Crystal City, TX, on March 31, 2013.



Figure 5. Hail damage 6 miles NNW Crystal City, TX, on March 31, 2013.



Figure 6. Tennis- to baseball-size hail 6 miles NNW Crystal City, TX, on March 31, 2013.



Figure 7. Hail 6 miles NNW Crystal City, TX, on March 31, 2013.

PRELIMINARY LOCAL STORM REPORT...SUMMARY  
 NATIONAL WEATHER SERVICE AUSTIN/SAN ANTONIO TX

.TIME...	...EVENT...	...CITY LOCATION...	...LAT.LON...
.DATE...	...MAG....	..COUNTY LOCATION..ST..	...SOURCE....
	..REMARKS..		
0135 PM 03/31/2013	HAIL E0.70 INCH	3 E SPICEWOOD BURNET TX	30.48N 98.11W COCORAHS
	PEA TO DIME SIZE HAIL.		
0135 PM 03/31/2013	HAIL E0.70 INCH	3 ENE SPICEWOOD BURNET TX	30.50N 98.13W COCORAHS
	DIME SIZE HAIL.		
0235 PM 03/31/2013	HAIL M1.00 INCH	18 WNW KERR WILDLIFE MG EDWARDS TX	30.16N 99.78W PUBLIC
	NEAR GOLDEN WAY AND HWY83		
0300 PM 03/31/2013	HAIL E0.88 INCH	2 W HUNT KERR TX	30.07N 99.37W CO-OP OBSERVER
	NICKEL SIZE HAIL.		
0305 PM 03/31/2013	HAIL M1.25 INCH	11 W KERR WILDLIFE MGMT KERR TX	30.07N 99.69W PUBLIC
	NEAR INTERSECTION HWYS 41 83		
0315 PM 03/31/2013	HAIL M1.00 INCH	6 ENE ROCKSPRINGS EDWARDS TX	30.05N 100.12W PUBLIC
	HACKBERRY CREEK RANCH		
0347 PM 03/31/2013	HAIL E1.00 INCH	10 NW MEDINA BANDERA TX	29.89N 99.39W PUBLIC
0425 PM 03/31/2013	HAIL E1.00 INCH	5 E LEAKEY REAL TX	29.72N 99.67W TRAINED SPOTTER
0445 PM 03/31/2013	HAIL E0.50 INCH	1 N BOERNE KENDALL TX	29.82N 98.74W TRAINED SPOTTER
	VERY HEAVY RAINFALL WITH PEA TO HALF INCH HAIL		
0530 PM 03/31/2013	HAIL E1.00 INCH	3 SE KNIPPA UVALDE TX	29.27N 99.60W LAW ENFORCEMENT
	COVERING THE ROAD KNOCKED WINDOWS OUT OF HOUSE		
0530 PM 03/31/2013	HAIL E1.75 INCH	7 W SABINAL UVALDE TX	29.32N 99.58W NWS EMPLOYEE
	QUARTER TO GOLFBALL SIZE HAIL BROKE VEHICLE AND HOUSE WINDOWS.		

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	..REMARKS..		
0530 PM 03/31/2013	HAIL E2.50 INCH	2 S KNIPPA UVALDE	29.27N 99.63W TX LAW ENFORCEMENT
	TENNIS BALL SIZE HAIL.		
0530 PM 03/31/2013	HAIL E1.00 INCH	10 E ALAMO VILLAGE KINNEY	29.42N 100.23W TX PUBLIC
	QUARTER SIZE HAIL.		
0535 PM 03/31/2013	HAIL E0.70 INCH	5 SE LEON SPRINGS BEXAR	29.62N 98.57W TX TRAINED SPOTTER
	DIME SIZE HAIL NEAR FIESTA TEXAS		
0538 PM 03/31/2013	HAIL E1.00 INCH	1 ESE CASTLE HILLS BEXAR	29.52N 98.50W TX COCORAHS
0538 PM 03/31/2013	HAIL E1.00 INCH	2 NNW HELOTES BEXAR	29.60N 98.71W TX COCORAHS
	QUARTER SIZE HAIL.		
0540 PM 03/31/2013	HAIL E2.50 INCH	1 SSE ALAMO HEIGHTS BEXAR	29.47N 98.46W TX PUBLIC
	20 MIN OF HAIL. MOSTLY PENNY TO NICKEL SIZE BUT SOME QUARTER AND GOLFBALL SIZED. A FEW TENNIS BALL SIZED. CRACKED WINDOW.		
0541 PM 03/31/2013	HAIL M1.00 INCH	2 ESE BALCONES HEIGHTS BEXAR	29.48N 98.53W TX TRAINED SPOTTER
0541 PM 03/31/2013	HAIL M0.88 INCH	SABINAL UVALDE	29.32N 99.47W TX NWS EMPLOYEE
	DIME TO NICKLE SIZE HAIL COVERING THE GROUND		
0542 PM 03/31/2013	HAIL M1.00 INCH	2 ESE CASTLE HILLS BEXAR	29.51N 98.49W TX NWS EMPLOYEE
	DIME TO QUARTER SIZE HAIL FOR 10 MIN		
0550 PM 03/31/2013	HAIL M1.00 INCH	2 NNE ALAMO HEIGHTS BEXAR	29.50N 98.46W TX AMATEUR RADIO
	DIME TO MARBLE		
0553 PM 03/31/2013	HAIL M0.75 INCH	1 SSE TERRELL HILLS BEXAR	29.46N 98.44W TX TRAINED SPOTTER
0559 PM 03/31/2013	HAIL E1.75 INCH	TERRELL HILLS BEXAR	29.48N 98.45W TX PUBLIC
	QUARTER TO GOLFBALL SIZE HAIL FOR 10 MIN		

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	..REMARKS..		
0600 PM 03/31/2013	HAIL M1.75 INCH	6 ESE FRIO TOWN FRIO TX	28.97N 99.23W COCORAHS
	DIME TO GOLFBALL SIZE HAIL. DENTS IN CARS.		
0601 PM 03/31/2013	HAIL M1.75 INCH	1 SE OLMOS PARK BEXAR TX	29.46N 98.47W BROADCAST MEDIA
	REPORTED BY CH12		
0606 PM 03/31/2013	HAIL E0.70 INCH	WINDCREST BEXAR TX	29.52N 98.38W PUBLIC
0610 PM 03/31/2013	HAIL M1.00 INCH	UNIVERSAL CITY BEXAR TX	29.55N 98.31W UNKNOWN
	FM78 AND SPRINGFIELD RD		
0635 PM 03/31/2013	HAIL M1.00 INCH	1 WSW PEARSALL FRIO TX	28.88N 99.11W LAW ENFORCEMENT
0641 PM 03/31/2013	HAIL M2.50 INCH	6 NNE DILLEY FRIO TX	28.75N 99.13W PUBLIC
	TENNIS BALL SIZE HAIL.		
0647 PM 03/31/2013	HAIL E2.75 INCH	8 ENE DILLEY FRIO TX	28.72N 99.05W PUBLIC
0650 PM 03/31/2013	HAIL M0.75 INCH	25 N DEL RIO VAL VERDE TX	29.74N 100.90W OTHER FEDERAL
0711 PM 03/31/2013	HAIL M2.75 INCH	6 NNW CRYSTAL CITY ZAVALA TX	28.78N 99.85W EMERGENCY MNGR
	BASEBALL SIZE HAIL.		
0722 PM 03/31/2013	HAIL M0.25 INCH	8 NNW DEL RIO VAL VERDE TX	29.48N 100.94W COCORAHS
0733 PM 03/31/2013	HAIL M1.00 INCH	8 NNW DEL RIO VAL VERDE TX	29.48N 100.94W COCORAHS
0744 PM 03/31/2013	HAIL E1.50 INCH	3 NW BIG WELLS DIMMIT TX	28.60N 99.60W LAW ENFORCEMENT
	PING PONG BALL SIZE HAIL.		
0801 PM 03/31/2013	HAIL E1.75 INCH	7 SSE LAUGHLIN AFB KINNEY TX	29.25N 100.75W OTHER FEDERAL
0905 PM 03/31/2013	HAIL E1.75 INCH	1 E QUEMADO MAVERICK TX	28.95N 100.62W PUBLIC
	GOLFBALL SIZE HAIL.		