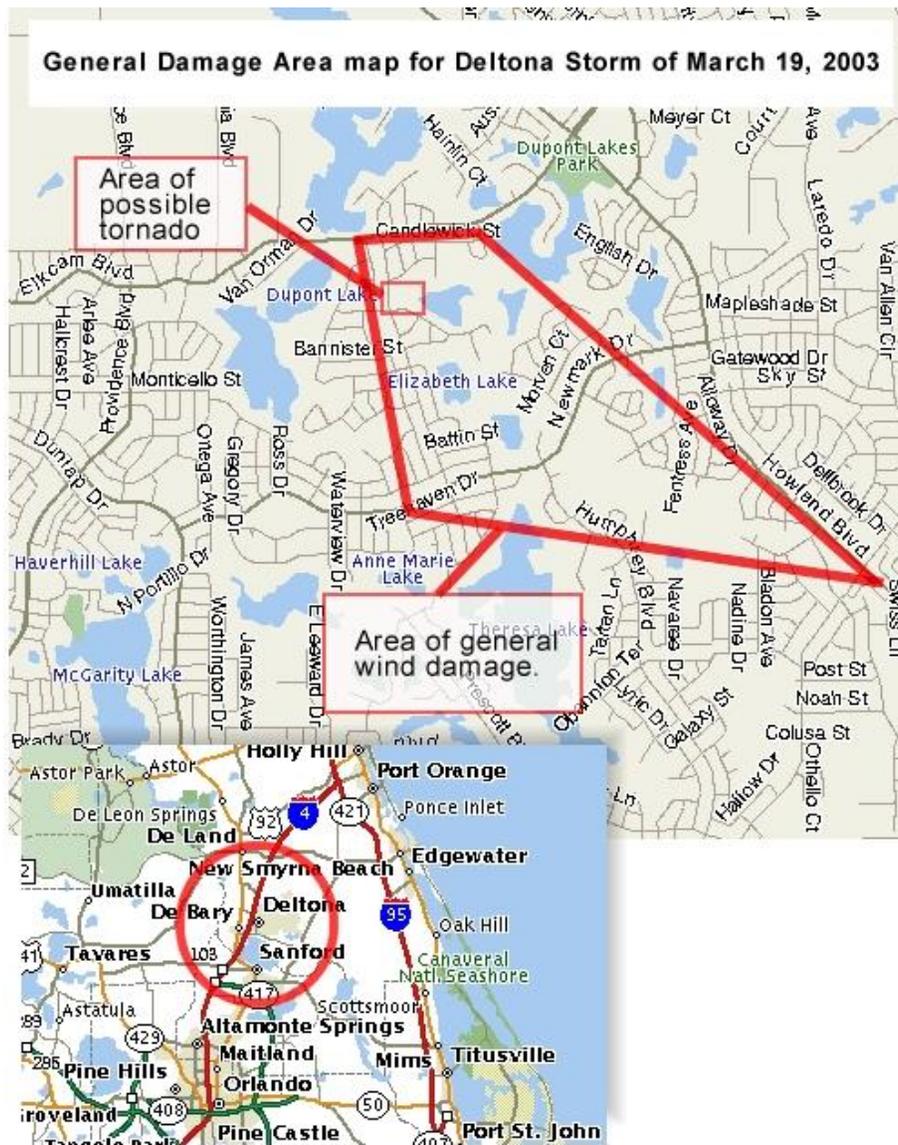


## Deltona Storm of March 19, 2003

At 6:25 PM a severe thunderstorm warning was issued for the Deltona area of central Volusia County. Large hail began at 6:30 PM, and radar began to indicate a possible tornado, prompting a tornado warning to be issued for the area at 6:41 PM. Reports of more large hail, tree damage, and possible tornadoes continued to filter in, and radar continued to show that a tornado was possible as the parent thunderstorm moved east at 20 mph through 8 PM.

A storm survey conducted the next day by National Weather Service personnel uncovered minimal evidence of tornadic damage in the area, but widespread evidence of tree damage due to a downburst of winds from north to south across the southeast section of Deltona, in the direction of Osteen. Minimal evidence of a tornado was visible in the box on the map below. This was only evident in the direction to which a few trees were pushed and not in structural damage of any kind.

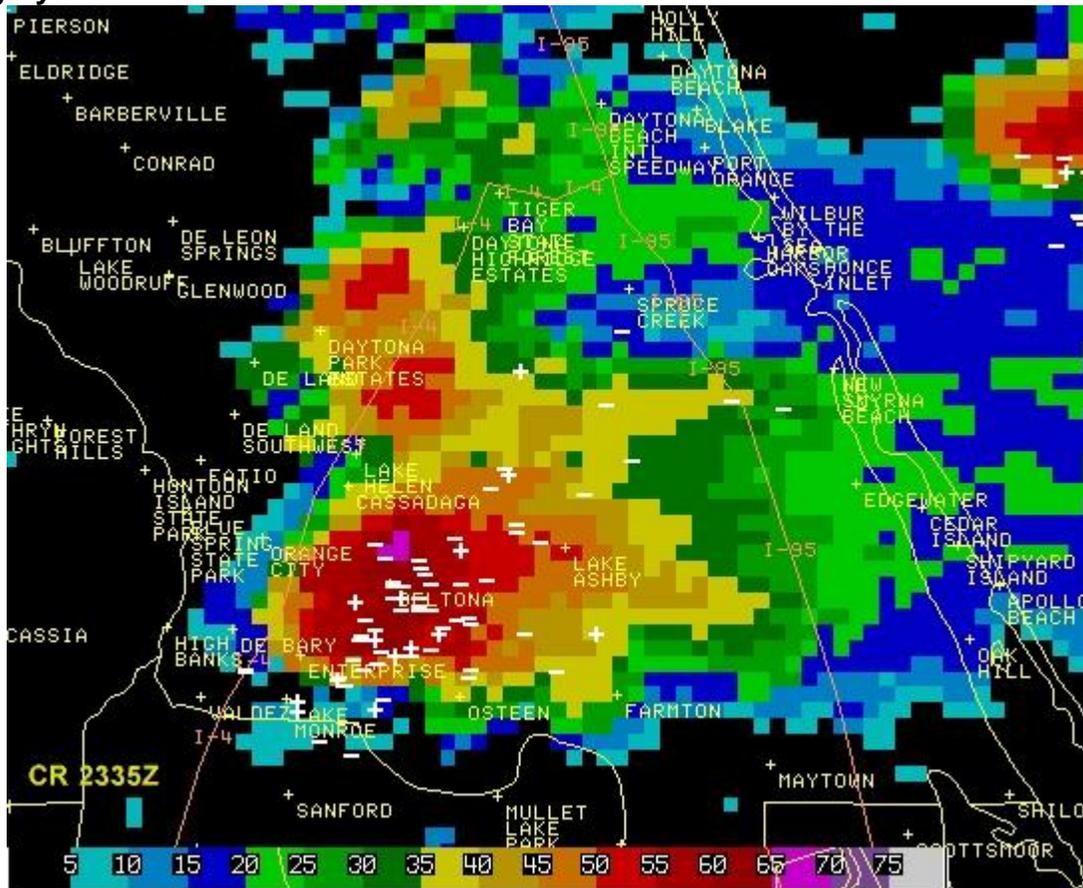
Any structural damage seen by the survey team was evidently the result of falling trees, and not by direct effect of wind itself.



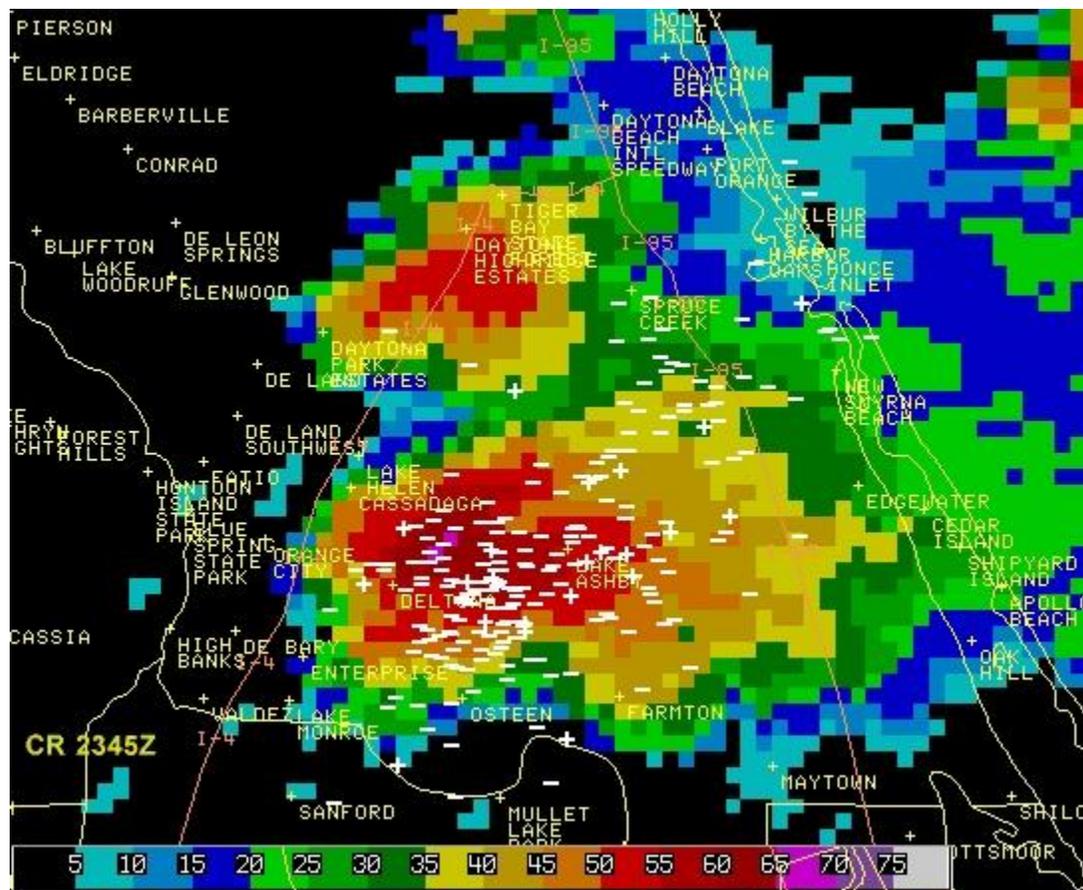
A few damage pictures:



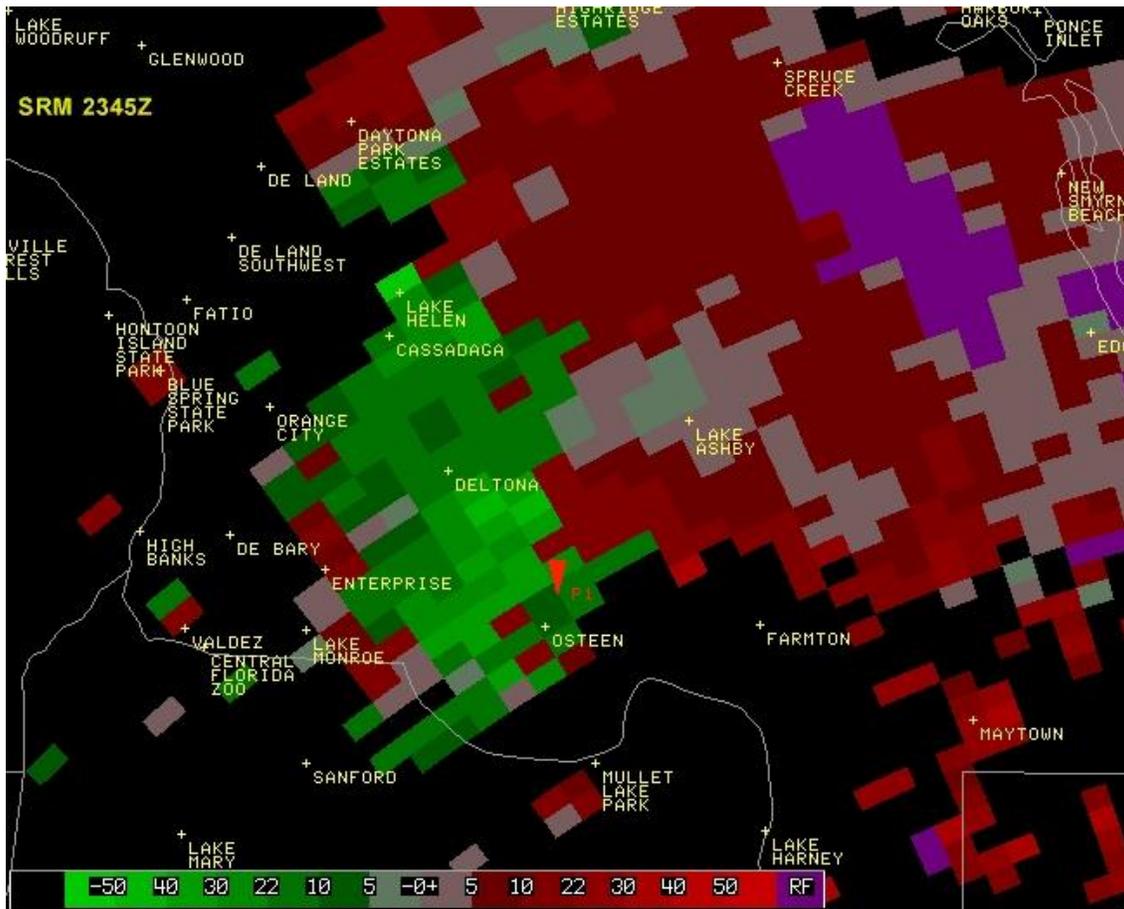
**Radar Imagery:**



**Composite Reflectivity at 6:35 PM EST**



**Composite Reflectivity at 6:45 PM EST**



## Products Issued:

WUUS52 KMLB 192323  
SVRMLB  
FLC127-200015-

BULLETIN - EAS ACTIVATION REQUESTED  
SEVERE THUNDERSTORM WARNING  
NATIONAL WEATHER SERVICE MELBOURNE FL  
625 PM EST WED MAR 19 2003

THE NATIONAL WEATHER SERVICE IN MELBOURNE HAS ISSUED A

\* SEVERE THUNDERSTORM WARNING FOR...  
CENTRAL VOLUSIA COUNTY  
IN EAST CENTRAL FLORIDA

\* UNTIL 715 PM EST

\* AT 625 PM EST...NATIONAL WEATHER SERVICE DOPPLER RADAR INDICATED  
A CLUSTER OF SEVERE THUNDERSTORM OVER ORANGE CITY AND DELTONA...  
MOVING NORTHEAST AT 5 TO 10 MPH.

\* THE SEVERE THUNDERSTORMS WILL BE...  
NEAR CASSADAGA...LAKE HELEN AT 635 PM EST

SEVERE THUNDERSTORMS PRODUCE DAMAGING WINDS IN EXCESS OF 58 MILES AN  
HOUR...DESTRUCTIVE HAIL...DEADLY LIGHTNING AND VERY HEAVY RAIN. IF  
THE STORM APPROACHES YOU...MOVE TO AN INTERIOR ROOM ON THE LOWEST  
FLOOR.

LAT...LON 2893 8140 2879 8127 2897 8091 2919 8110

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WFUS52 KMLB 192343  
TORMLB  
FLC127-200015-

BULLETIN - EAS ACTIVATION REQUESTED  
TORNADO WARNING  
NATIONAL WEATHER SERVICE MELBOURNE FL  
641 PM EST WED MAR 19 2003

THE NATIONAL WEATHER SERVICE IN MELBOURNE HAS ISSUED A

\* TORNADO WARNING FOR...  
SOUTHERN VOLUSIA COUNTY  
IN EAST CENTRAL FLORIDA

\* UNTIL 715 PM EST

\* AT 641 PM EST...NATIONAL WEATHER SERVICE DOPPLER RADAR INDICATED  
A SEVERE THUNDERSTORM CAPABLE OF PRODUCING A TORNADO OVER  
DELTONA...MOVING NORTHEAST AT 5 TO 10 MPH.

\* THE STORM IS EXPECTED TO...  
MOVE OVER DELTONA AND TOWARD LAKE ASHBY.

THIS STORM SHOWED SIGNS OF ROTATION AND COULD PRODUCE A TORNADO AT  
ANY TIME. DONT GET CAUGHT OFF GUARD! THE STORM IS ALSO PRODUCING  
EXCESSIVE LIGHTNING.

IF YOU ARE IN THE PATH OF A TORNADO...THE SAFEST PLACE IS IN A STRONG BUILDING ON THE LOWEST FLOOR. MOVE TO AN INTERIOR ROOM SUCH AS A BATHROOM OR CLOSET. KEEP AWAY FROM WINDOWS. IF NECESSARY...GET UNDER A WORKBENCH OR OTHER PIECE OF STURDY FURNITURE. USE BLANKETS OR PILLOWS TO COVER YOUR BODY.

LAT...LON 2894 8131 2880 8118 2902 8082 2920 8098

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WFUS52 KMLB 200013  
TORMLB  
FLC127-200045-

BULLETIN - EAS ACTIVATION REQUESTED  
TORNADO WARNING  
NATIONAL WEATHER SERVICE MELBOURNE FL  
713 PM EST WED MAR 19 2003

THE NATIONAL WEATHER SERVICE IN MELBOURNE HAS ISSUED A

\* TORNADO WARNING FOR...  
VOLUSIA COUNTY  
IN EAST CENTRAL FLORIDA

\* UNTIL 745 PM EST

\* AT 713 PM EST...NATIONAL WEATHER SERVICE DOPPLER RADAR INDICATED  
A TORNADO 5 MILES NORTHEAST OF OSTEEN...MOVING NORTHEAST AT 15 MPH.

\* THE STORM IS EXPECTED TO CROSS RURAL VOLUSIA COUNTY AND CROSS I-95  
WEST OF EDGEWATER THROUGH 745 PM

THE IMMEDIATE DANGER OF A TORNADO IS HIGH. VOLUSIA COUNTY EMO HAS AN UNCONFIRMED REPORT OF A TORNADO TOUCHING DOWN IN NORTHEAST DELTONA. THIS STORM ALSO HAS A HISTORY OF PRODUCING WIND DAMAGE AND LARGE HAIL.

PEOPLE IN THE PATH OF THIS STORM ARE URGED TO QUICKLY PREPARE FOR ITS APPROACH. THIS IS A DANGEROUS SITUATION! ACT NOW AS SECONDS CAN SAVE LIVES!

IF YOU ARE IN THE PATH OF A TORNADO...THE SAFEST PLACE IS IN A STRONG BUILDING ON THE LOWEST FLOOR. MOVE TO AN INTERIOR ROOM SUCH AS A BATHROOM OR CLOSET. KEEP AWAY FROM WINDOWS. IF NECESSARY...GET UNDER A WORKBENCH OR OTHER PIECE OF STURDY FURNITURE. USE BLANKETS OR PILLOWS TO COVER YOUR BODY. ABANDON YOUR MOBILE HOME OR RV FOR MORE SUBSTANTIAL SHELTER. IF YOU ARE CAUGHT OUTSIDE...GET INTO AN UNFLOODED DITCH OR LOW SPOT AND COVER YOUR HEAD WITH YOUR HANDS AND ARMS. ABANDON YOUR VEHICLE IF THE TORNADO IS NEARBY.

TORNADOES AT NIGHT ARE DIFFICULT TO SEE. WATCH FOR THE POPPING OF ELECTRIC LINES AND TRANSFORMERS OR LISTEN FOR THE SOUND OF LOUD RUMBLING AS THAT OF AN APPROACHING FREIGHT TRAIN. TORNADOES ARE OFTEN ASSOCIATED WITH STORMS WHICH ALSO PRODUCE LARGE HAIL AND EXCESSIVE LIGHTNING.

LAT...LON 2890 8124 2877 8109 2913 8061 2932 8082

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WFUS52 KMLB 200044  
TORMLB

FLC127-200115-

BULLETIN - EAS ACTIVATION REQUESTED  
TORNADO WARNING  
NATIONAL WEATHER SERVICE MELBOURNE FL  
743 PM EST WED MAR 19 2003

THE NATIONAL WEATHER SERVICE IN MELBOURNE HAS ISSUED A

\* TORNADO WARNING FOR...  
SOUTHEASTERN VOLUSIA COUNTY  
IN EAST CENTRAL FLORIDA

\* UNTIL 815 PM EST

\* AT 743 PM EST...NATIONAL WEATHER SERVICE DOPPLER RADAR INDICATED A  
TORNADO 6 MILES WEST OF OAK HILL...OR ABOUT 6 MILES NORTHEAST OF  
MAYTOWN...MOVING EAST AT 20 MPH.

\* THE TORNADO IS EXPECTED TO BE...  
NEAR OAK HILL...APOLLO BEACH...ELDORA AT 755 PM EST

IF YOU ARE IN THE PATH OF A TORNADO...THE SAFEST PLACE IS IN A STRONG  
BUILDING ON THE LOWEST FLOOR. MOVE TO AN INTERIOR ROOM SUCH AS A  
BATHROOM OR CLOSET. KEEP AWAY FROM WINDOWS. IF NECESSARY...GET UNDER  
A WORKBENCH OR OTHER PIECE OF STURDY FURNITURE. USE BLANKETS OR  
PILLOWS TO COVER YOUR BODY. ABANDON YOUR MOBILE HOME OR RV FOR MORE  
SUBSTANTIAL SHELTER. IF YOU ARE CAUGHT OUTSIDE...GET INTO AN  
UNFLOODED DITCH OR LOW SPOT AND COVER YOUR HEAD WITH YOUR HANDS AND  
ARMS. ABANDON YOUR VEHICLE IF THE TORNADO IS NEARBY.

TORNADOES AT NIGHT ARE DIFFICULT TO SEE. WATCH FOR THE POPPING OF  
ELECTRIC LINES AND TRANSFORMERS OR LISTEN FOR THE SOUND OF LOUD  
RUMBLING AS THAT OF AN APPROACHING FRIEGHT TRAIN. TORNADOES ARE OFTEN  
ASSOCIATED WITH STORMS WHICH ALSO PRODUCE LARGE HAIL AND EXCESSIVE  
LIGHTNING.

LAT...LON 2896 8103 2878 8101 2880 8073 2899 8075

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WWUS52 KMLB 192353  
SVSMLB  
FLC127-200015-

SEVERE WEATHER STATEMENT  
NATIONAL WEATHER SERVICE MELBOURNE FL  
654 PM EST WED MAR 19 2003

...A TORNADO WARNING CONTINUES FOR SOUTHERN VOLUSIA COUNTY UNTIL 715  
PM EST...

AT 653 PM EST NATIONAL WEATHER SERVICE DOPPLER RADAR INDICATED A  
SEVERE THUNDERSTORM CAPABLE OF PRODUCING A TORNADO JUST NORTHEAST OF  
DELTONA...MOVING NORTHEAST AT 5 TO 10 MPH. THE STORM WILL MOVE TO  
AREAS BETWEEN LAKE ASHBY AND STATE ROAD 44 IN SOUTH CENTRAL VOLUSIA  
COUNTY.

LARGE HAIL...DAMAGING THUNDERSTORM WINDS AND EXCESSIVE LIGHTNING ARE  
ALSO EXPECTED WITH THIS STORM. PERSONS IN THE PATH OF THE STORM  
SHOULD TAKE COVER IMMEDIATELY!

STAY TUNED TO LOCAL MEDIA OUTLETS OR NOAA WEATHER RADIO FOR THE  
LATEST SEVERE WEATHER INFORMATION.

LAT...LON 2895 8129 2883 8115 2907 8083 2923 8101

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WWUS52 KMLB 200040  
SVSMLB  
FLC127-200045-

SEVERE WEATHER STATEMENT  
NATIONAL WEATHER SERVICE MELBOURNE FL  
740 PM EST WED MAR 19 2003

...A TORNADO WARNING CONTINUES FOR VOLUSIA COUNTY UNTIL 745 PM EST...

AT 736 PM EST NATIONAL WEATHER SERVICE DOPPLER RADAR INDICATED A  
TORNADO 6 MILES NORTH OF MAYTOWN AND 8 MILES WEST OF OAK HILL MOVING  
EAST TO NORTHEAST AT 20 MPH.

\* THE STORM IS EXPECTED TO PASS NEAR...  
SOUTH EDGEWATER AND OAK HILL AROUND 745 PM EST

A WEATHER SPOTTER SIGHTED A TORNADO ON THE GROUND AT 723 PM ON THE  
EAST SIDE OF DELTONA.

TAKE THIS WARNING SERIOUSLY!!! THIS STORM HAS A HISTORY OF PRODUCING  
WIND DAMAGE AND LARGE HAIL. IN ADDITION...TWO REPORTS OF TORNADIC  
DAMAGE HAVE BEEN RECEIVED FROM THIS STORM.

STAY TUNED TO LOCAL MEDIA OUTLETS OR NOAA WEATHER RADIO FOR THE  
LATEST SEVERE WEATHER INFORMATION.

LAT...LON 2890 8124 2877 8109 2913 8061 2932 8082

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WWUS52 KMLB 200057  
SVSMLB  
FLC009-127-200115-

SEVERE WEATHER STATEMENT  
NATIONAL WEATHER SERVICE MELBOURNE FL  
755 PM EST WED MAR 19 2003

...A TORNADO WARNING CONTINUES FOR SOUTHEASTERN VOLUSIA COUNTY  
UNTIL 815 PM...

...SEVERE THUNDERSTORM EXITING NORTHERN BREVARD COUNTY...

...SEVERE STORM CELLS ABOUT TO MERGE OVER SOUTHEAST VOLUSIA COUNTY...

AT 755 PM EST NATIONAL WEATHER SERVICE DOPPLER RADAR INDICATED A  
TORNADO NEAR THE OAK HILL AREA. ANOTHER SEVERE STORMS CELL MOVING  
OUT OF BREVARD COUNTY WAS ALSO MOVING TOWARD OAK HILL.

IF YOU LIVE ANYWHERE FROM SOUTH EDGEWATER TO OAK HILL AND APOLLO  
BEACH...YOU NEED TO TAKE COVER NOW!!!

STAY TUNED TO LOCAL MEDIA OUTLETS OR NOAA WEATHER RADIO FOR THE  
LATEST SEVERE WEATHER INFORMATION.

LAT...LON 2904 8090 2847 8052 2821 8062 2791 8046

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WWUS52 KMLB 200117  
SVSMLB  
FLC127-200130-

SEVERE WEATHER STATEMENT  
NATIONAL WEATHER SERVICE MELBOURNE FL  
816 PM EST WED MAR 19 2003

...THE TORNADO WARNING FOR EXTREME SOUTHEAST VOLUSIA COUNTY HAS  
BEEN ALLOWED TO EXPIRE...

AT 816 PM EST NATIONAL WEATHER SERVICE RADAR INDICATED THAT THE  
SEVERE THUNDERSTORM AND TORNADO HAD MOVED OFFSHORE SOUTHEAST VOLUSIA  
COUNTY...THUS THE WARNING HAS BEEN ALLOWED TO EXPIRE.

STAY TUNED TO LOCAL MEDIA OUTLETS OR NOAA WEATHER RADIO FOR THE  
LATEST SEVERE WEATHER INFORMATION.

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NWUS52 KMLB 200309  
LSRMLB

PRELIMINARY LOCAL STORM REPORT  
NATIONAL WEATHER SERVICE MELBOURNE FL  
1008 PM EST WED MAR 19 2003

TIME (EST)	.....CITY LOCATION.....	STATE	...EVENT/REMARKS...
	.....COUNTY LOCATION.....		
630 PM 03/19/03	DELTONA VOLUSIA	FL	1.00 INCH HAIL ONE INCH HAIL REPORTED BY SKYWARN SPOTTER.
630 PM 03/19/03	DELTONA VOLUSIA	FL	62 MPH WIND GUST SPOTTER REPLAYED A REPORT OF A MEASRUED 62 MPH WIND GUST AT 1969 ALLOWAY DRIVE.
640 PM 03/19/03	DELTONA VOLUSIA	FL	1.00 INCH HAIL SKYWARN SPOTTER REPORTED 1 INCH HAIL.
640 PM 03/19/03	DELTONA VOLUSIA	FL	0.75 INCH HAIL PUBLIC REPORT OF DIME SIZE HAIL NEAR THE CORNER OF ELKCAM AND PROVIDENCE BLVDS.
655 PM 03/19/03	DELTONA VOLUSIA	FL	0.88 INCH HAIL HAIL UP TO NICKEL SIZE LASTED FOR 15 MINUTES. PUBLIC REPORT.
715 PM 03/19/03	DELTONA VOLUSIA	FL	TORNADO TIME ESTIMATED. VOLUSIA

COUNTY EMO REPORTED A  
POSSIBLE TORNADO TOUCHING  
DOWN ON EAST SIDE OF  
DELTONA. NUMEROUS TREES  
AND POWER LINES DOWN IN  
THE CITY. BETWEEN 2 AND 4  
HOMES SUFFERED DAMAGE.

723 PM DELTONA  
03/19/03 VOLUSIA

FL TORNADO  
SPOTTER RELAYED A REPORT  
OF A TORNADO TOUCHING  
DOWN AT THE INTERSECTION  
OF HOWLAND BLVD AND  
ELKCAM BLVD ON THE EAST  
SIDE OF DELTONA

755 PM SCOTTSMOOR  
03/19/03 BREVARD

FL 0.88 INCH HAIL  
COOP OBSERVER REPORTED  
NICKEL SIZE HAIL.

759 PM OAK HILL  
03/19/03 VOLUSIA

FL 0.75 INCH HAIL  
DIME SIZE HAIL AT MILE  
MARKER 247 ON I-95 NEAR  
OAK HILL. HAM REPORT.

800 PM OAK HILL  
03/19/03 VOLUSIA

FL WIND DAMAGE  
POWER LINES DOWN IN THE  
OAK HILL AREA. FROM  
VOLUSIA COUNTY S.O.