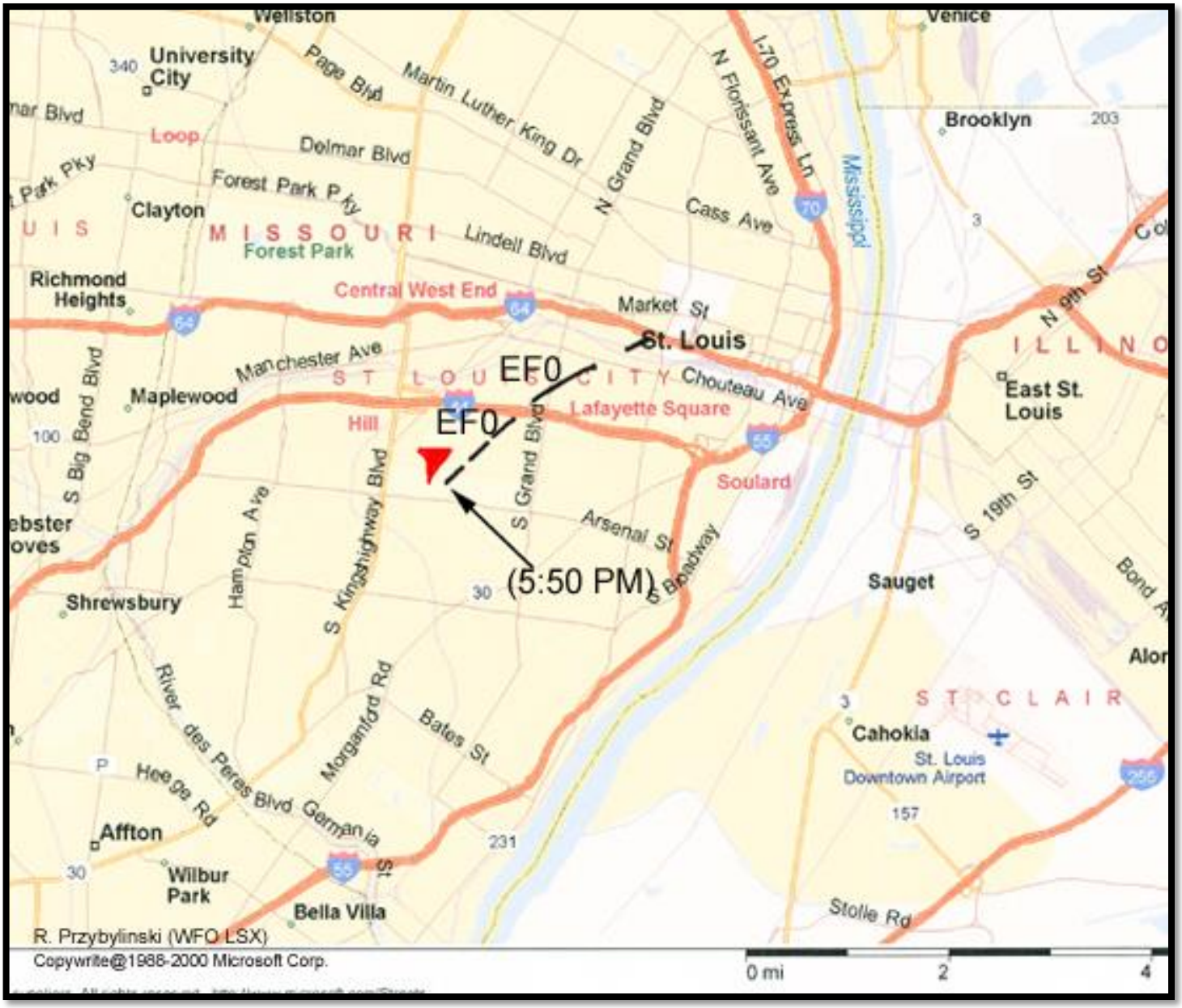
St. Louis, Missouri Bow Echo

March 31st, 2007

Overview

Late Saturday afternoon, March 31st, 2007, a bow echo embedded within a larger squall line was responsible for spawning a weak tornado over midtown St. Louis City along with scattered wind damage. Other reports of wind damage occurred near the intersection of Kingshighway and Interstate 64 and in the Baldwin area. The larger squall line formed in an unseasonably warm and moist airmass ahead of a southeastward moving weak cold front. The warm air was replaced by slightly cooler and drier air.



Detailed damage map of the wind and tornado damage in midtown St. Louis on March 31st, 2007.

Damage Photos

Tree damage near the intersection of Flora Place and 39th Streets. Viewing southwest on Flora Place Avenue.

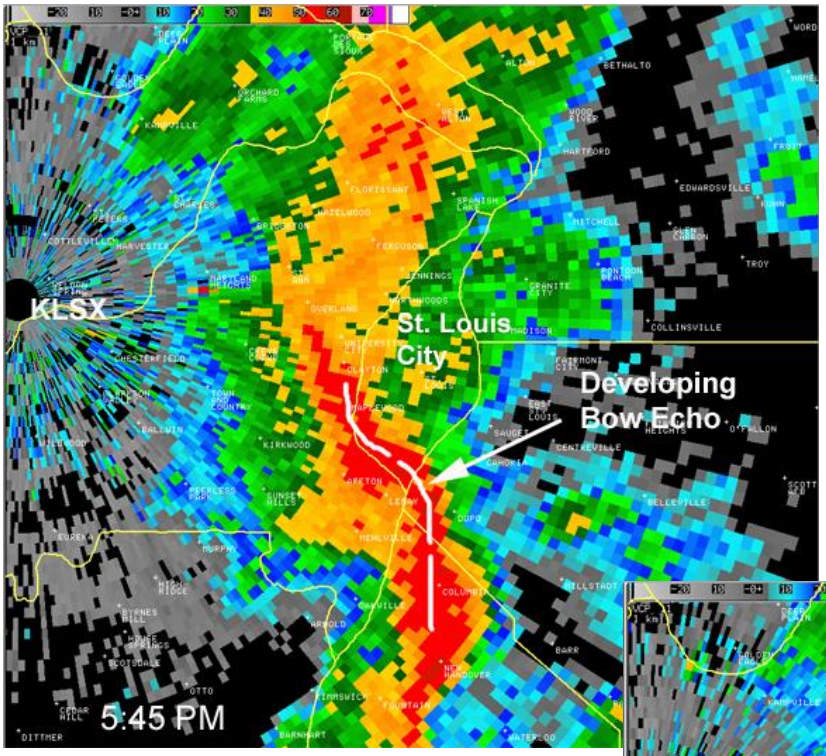
Roof damage to three structure on Blaine Avenue approximately 150 yards west of Grand Ave. Viewing west northwest. Three witnesses observed roofing material rising vertically into the funnel.

Damage Photos

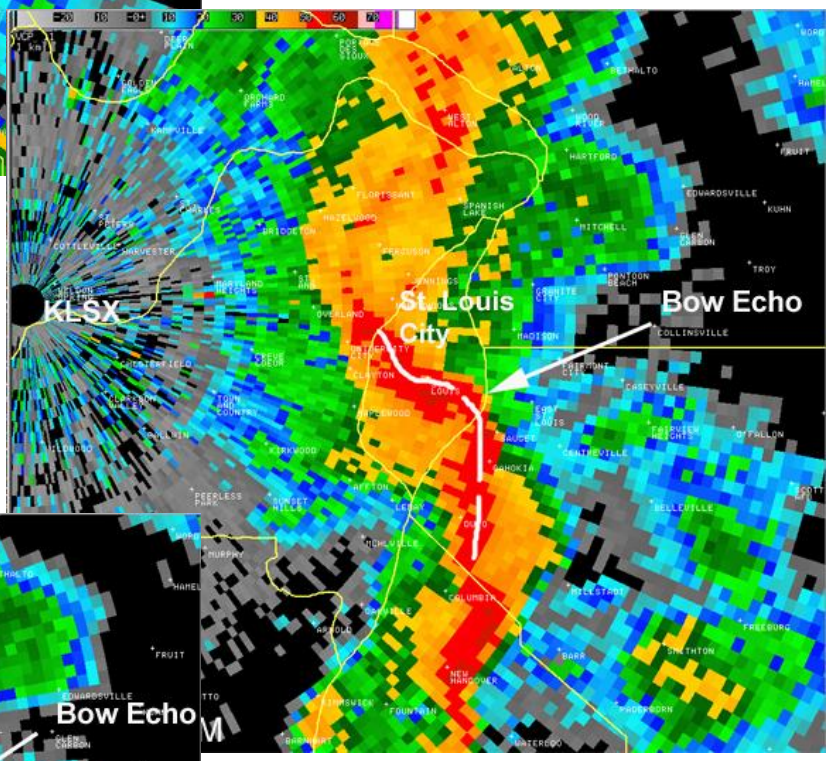
Windows blown out at one of two parking garages on the south campus of Saint Louis University. Viewing north.

Sheet metal blown away from the supports of a large sign off of Interstate 64 and just west of Jefferson Avenue. Viewing up and to the east.

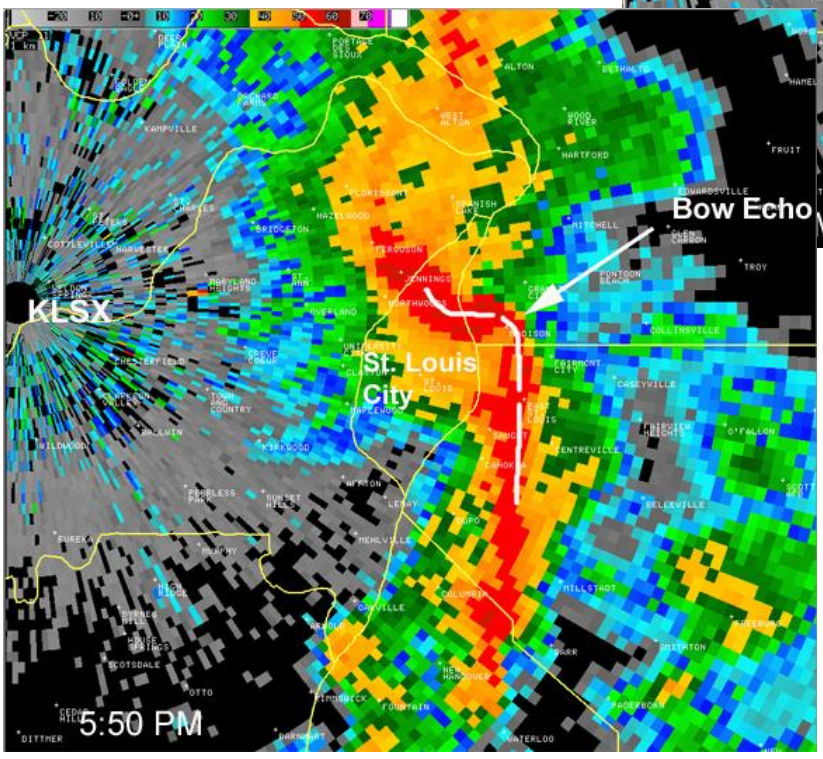
Radar Data



Radar reflectivity data at 5:45 PM CDT.



Radar reflectivity data at 5:50 PM CDT.



Radar reflectivity data at 5:55 PM CDT.

Please note that while the severe weather data presented in this event synopsis has been quality controlled, it is still considered unofficial. Official reports & statistics for severe weather events can be found in the ***Storm Data*** publication (http://www.ncdc.noaa.gov/IPS/sd/sd.html) or ***Storm Events Database*** http://www.ncdc.noaa.gov/stormevents/), available from the National Centers for Environmental Information (NCEI) web page [formerly the National Climate Data Center (NCDC)].

More detailed tornado track information can be accessed using the National Weather Service Damage Assessment Toolkit for all tornadoes beginning in 2012. https://apps.dat.noaa.gov/StormDamage/DamageViewer/

Any questions regarding this event review should be address to w-lsx.webmaster@noaa.gov