An Examination of the Sumter County, SC, Tornado Event on April 15, 2007

Dan Miller and Leonard Vaughan
National Weather Service Columbia, SC

Outline

• Event Information (Dan)
  – What and Where?

• Meteorological Environment (Dan)

• Doppler Radar Images (Dan)

• Warning Info & Storm Survey (Leonard)
  – Detailed Map of Tornado Track
  – Photographs of Damage

• Q&A? (Dan & Leonard)
What Happened?

• A tornado touched down in Sumter County, SC.
  • The tornado reached a maximum intensity of EF-3.
  • 1 fatality, and 3 injuries, occurred.
  • 7 mobile homes destroyed.
  • 9 framed homes severely damaged.
  • 62 additional mobile and framed homes experienced light to moderate damage.

Tornado Events CAE CWA 15 April 2008
Meteorological Environment
Key Points

- Strong low level shear/helicity.
- Sufficient instability for convection.
- Enhanced synoptic scale lift.
Warning Information & Storm Survey

Leonard Vaughan
Tornado Warning
Issued at 8:16 AM EDT
Effective until 8:45 AM EDT

Tornado Touchdown
8:20 AM EDT

Fatality
8:37 AM EDT

Tornado Dissipated
8:41 AM EDT

EF-1
Path Length: 19 mi.
Damage Width: 300 yd.

EF-3
Major Damage & Fatality

Significant Damage
Photographs of Damage
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Dan Miller/Leonard Vaughan
National Weather Service
2909 Aviation Way
West Columbia, SC 29170
803-822-8133

daniel.miller@noaa.gov
leonard.vaughan@noaa.gov