

Overview

- March 1, 2007
- High Risk
- Long Track HP-Supercell
- 9 Fatalities (Eight at Enterprise H.S.)
- Significant Damage to mostly frame homes.
- EF-4 Rating
- Significant media attention

Assessment

- Multiple assessment teams
- Quick Response Team
- Local Management
- Two aerial surveys (1 fixed wing, 1 helicopter)
- Ground photos mainly limited to area around High School

Assessment

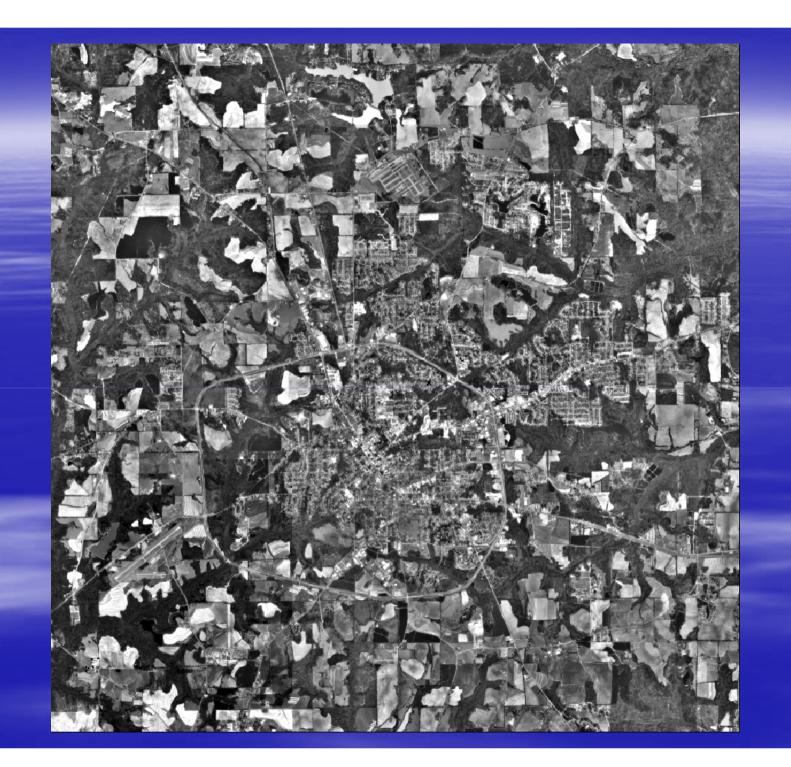
- Mass of photographic data difficult to visualize spatially
- Analyze Damage Patterns
- Relationship of damage to radar data
- Geographic Information System (GIS) ideal way to merge the available data



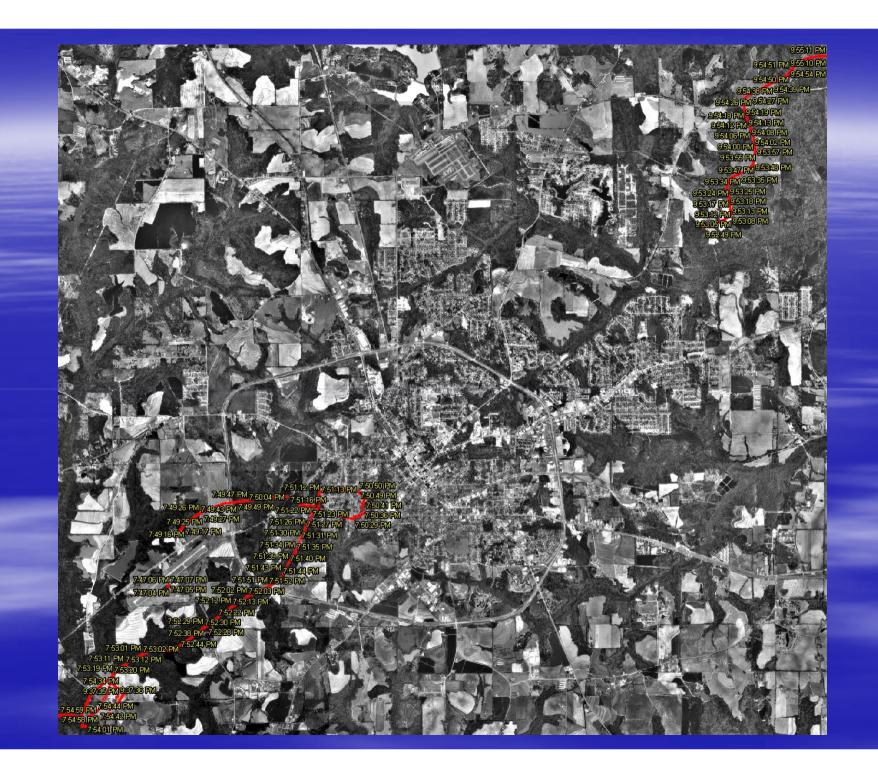
Photos – both aerial and on ground – with associated times



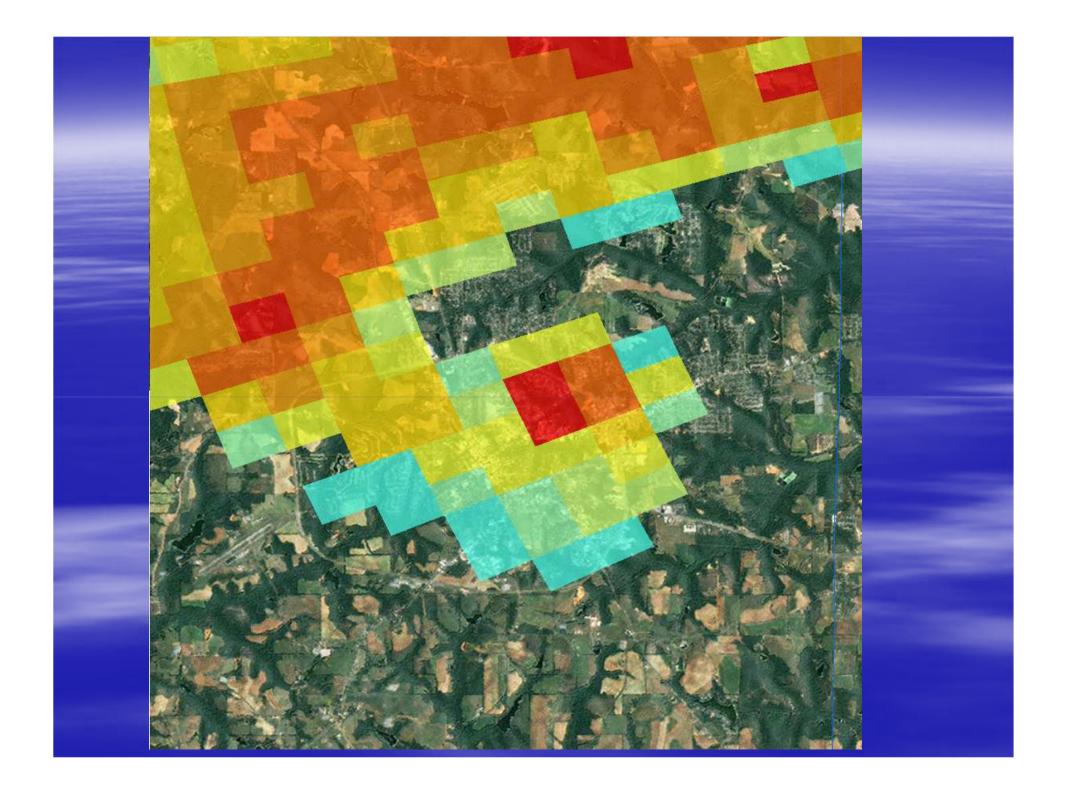
- Photos both aerial and on ground with associated times
- Ortho-rectified imagery from USGS



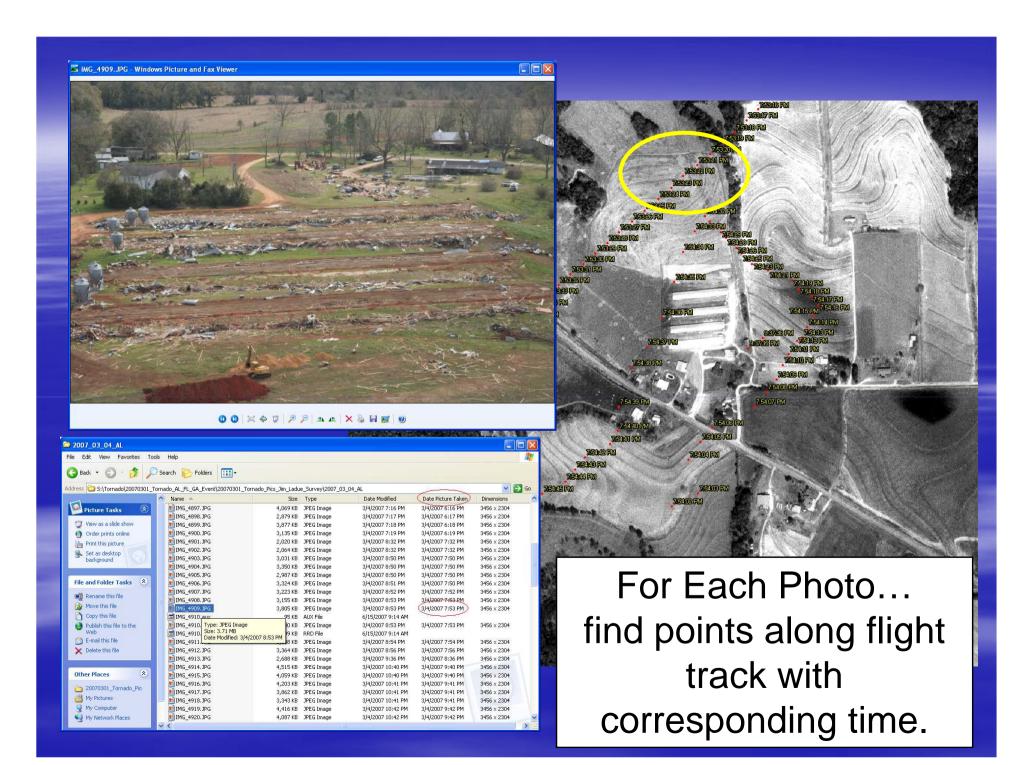
- Photos both aerial and on ground with associated times
- Ortho-rectified Imagery from USGS
- GPS flight track coordinates and timestamps

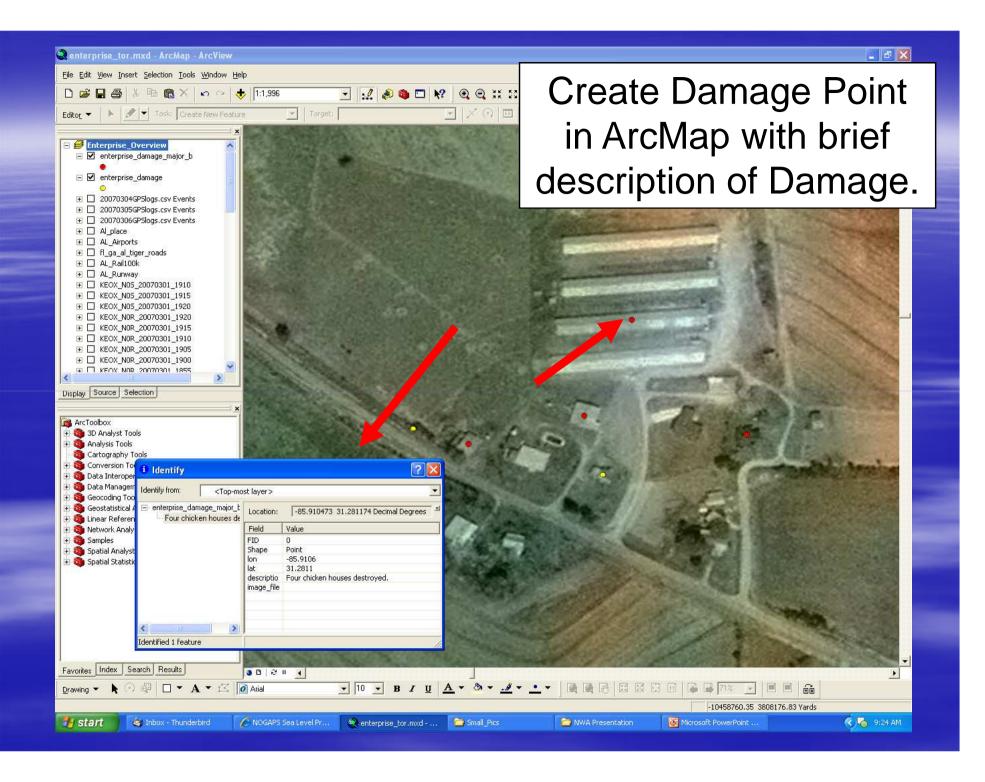


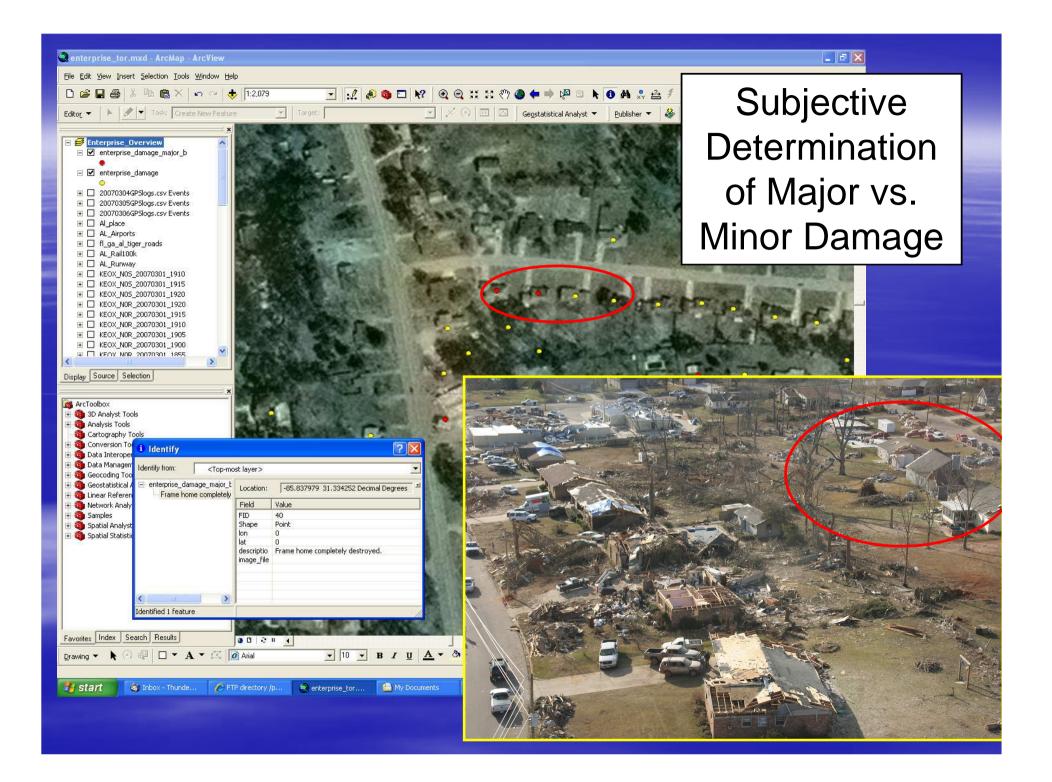
- Photos both aerial and on ground with associated times
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- Fort Rucker (KEOX) Level III Radar Data from NCDC



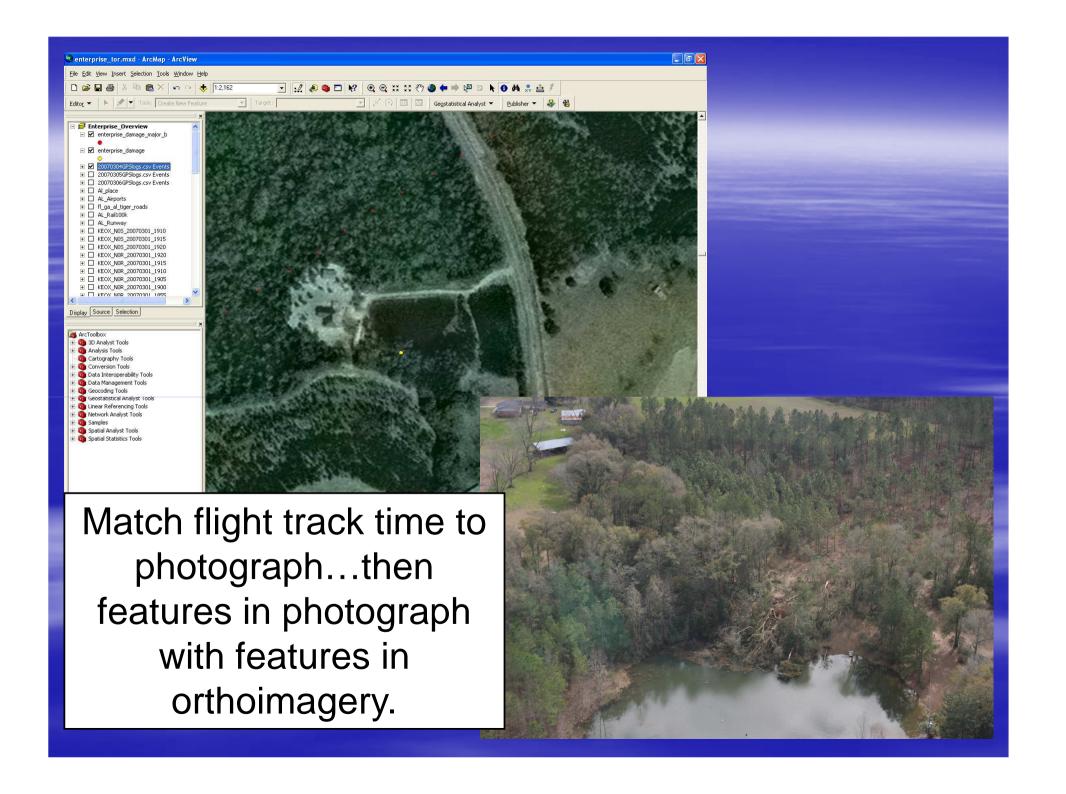
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- All put together in ArcGIS

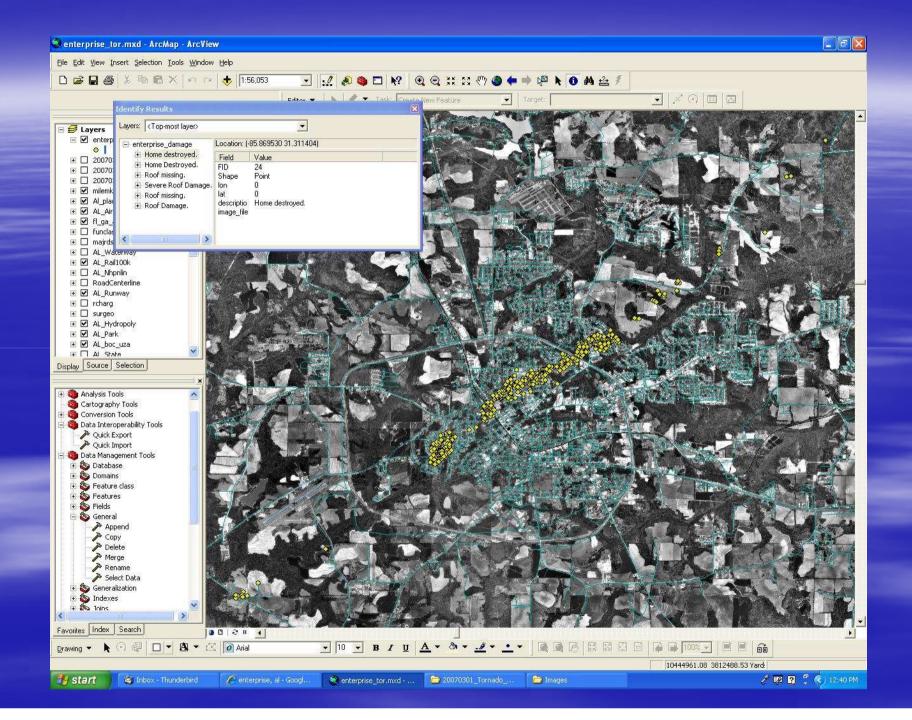


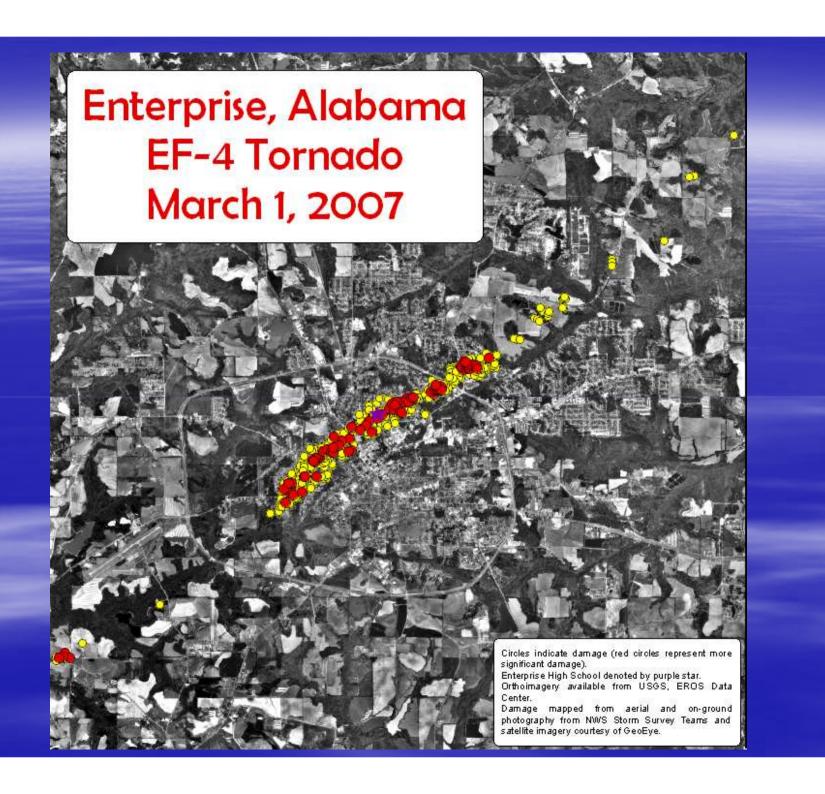


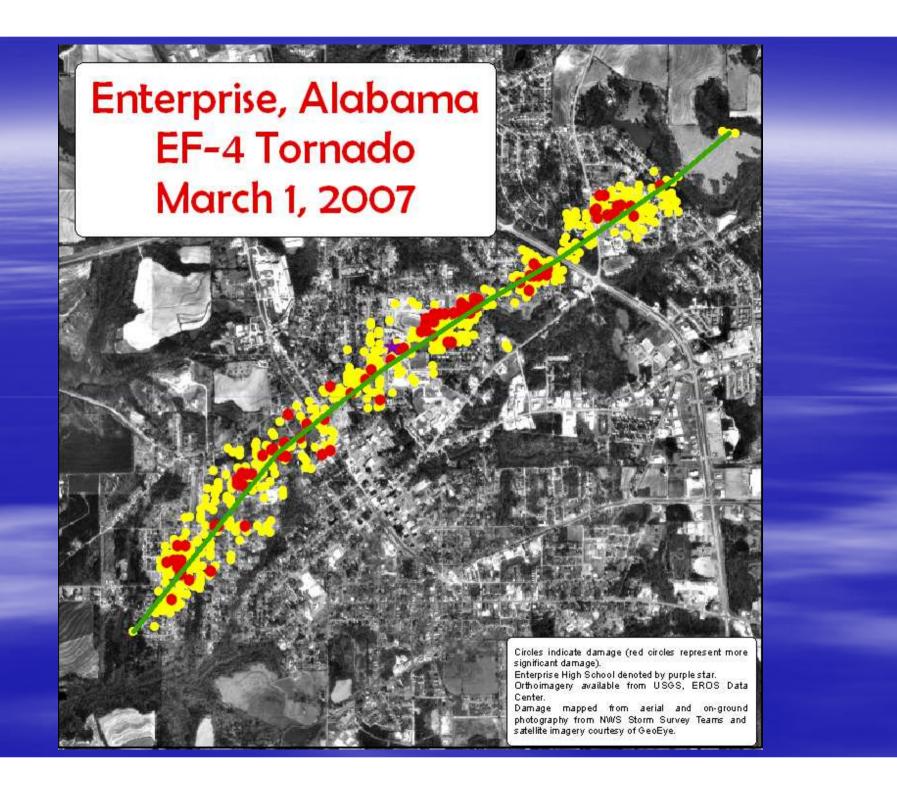


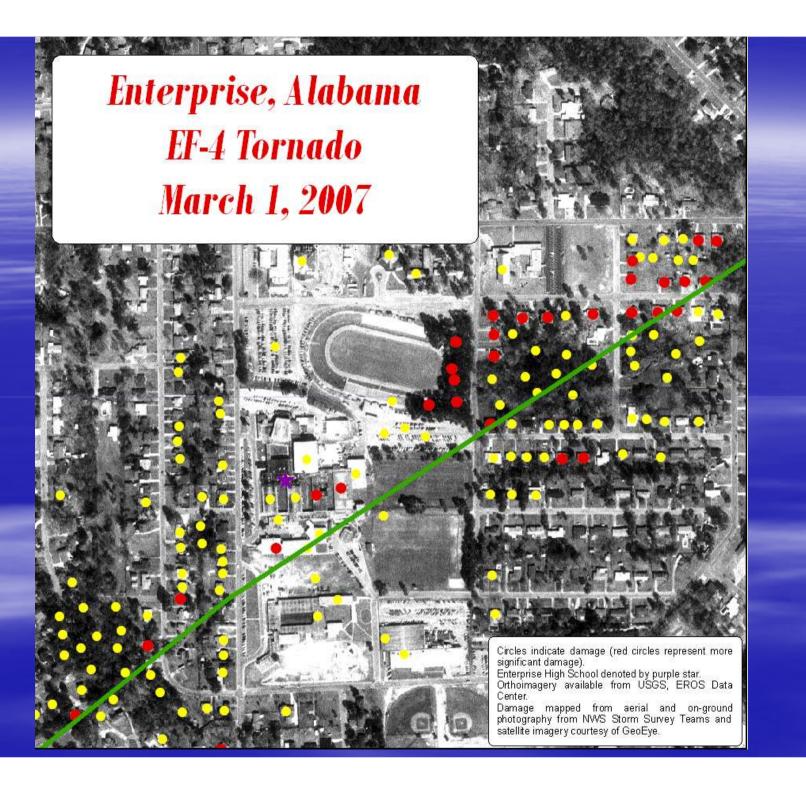






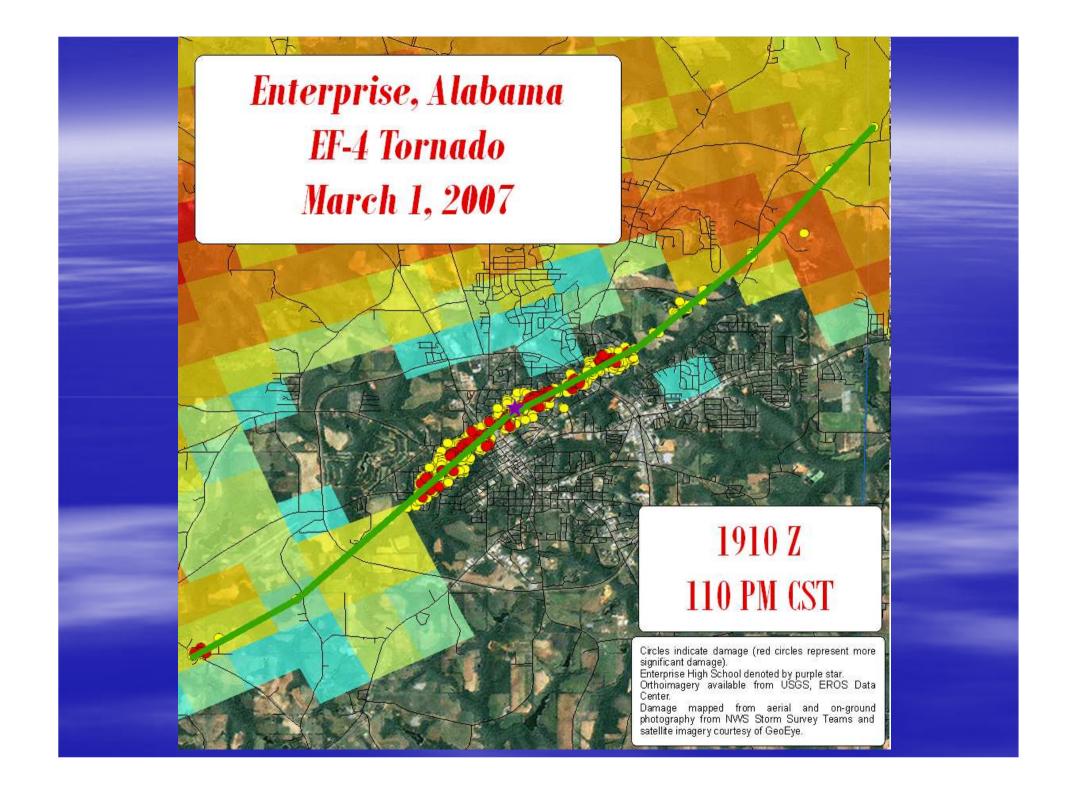


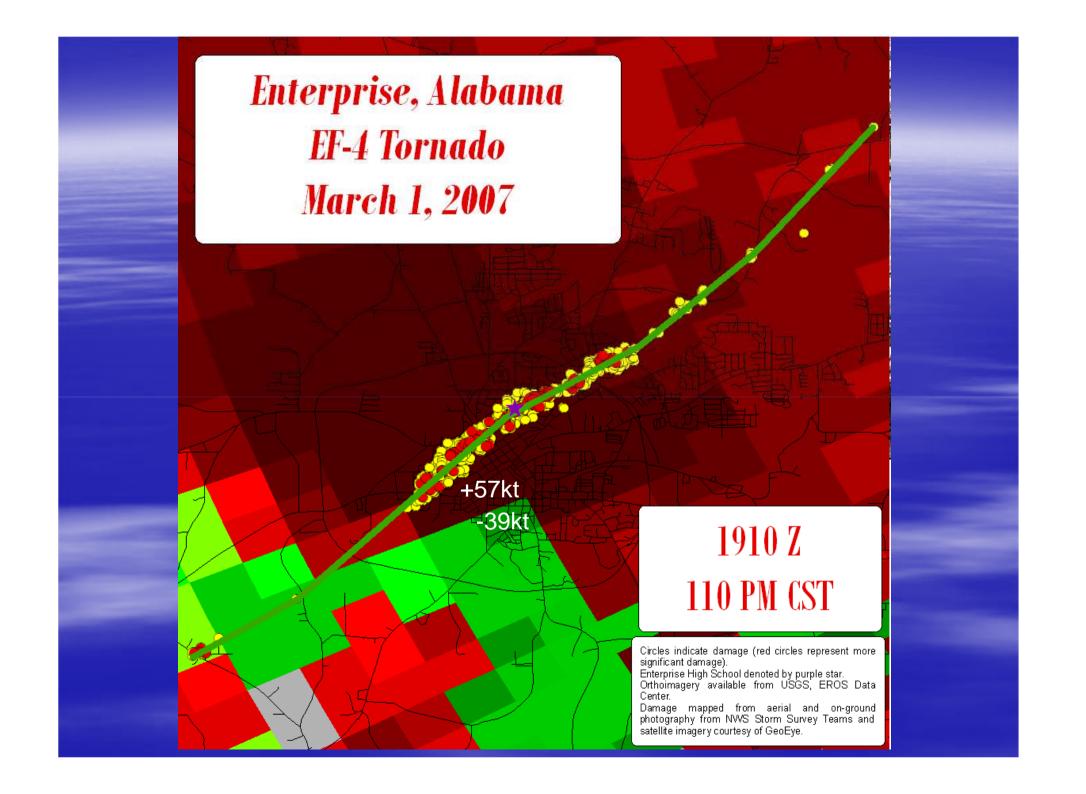


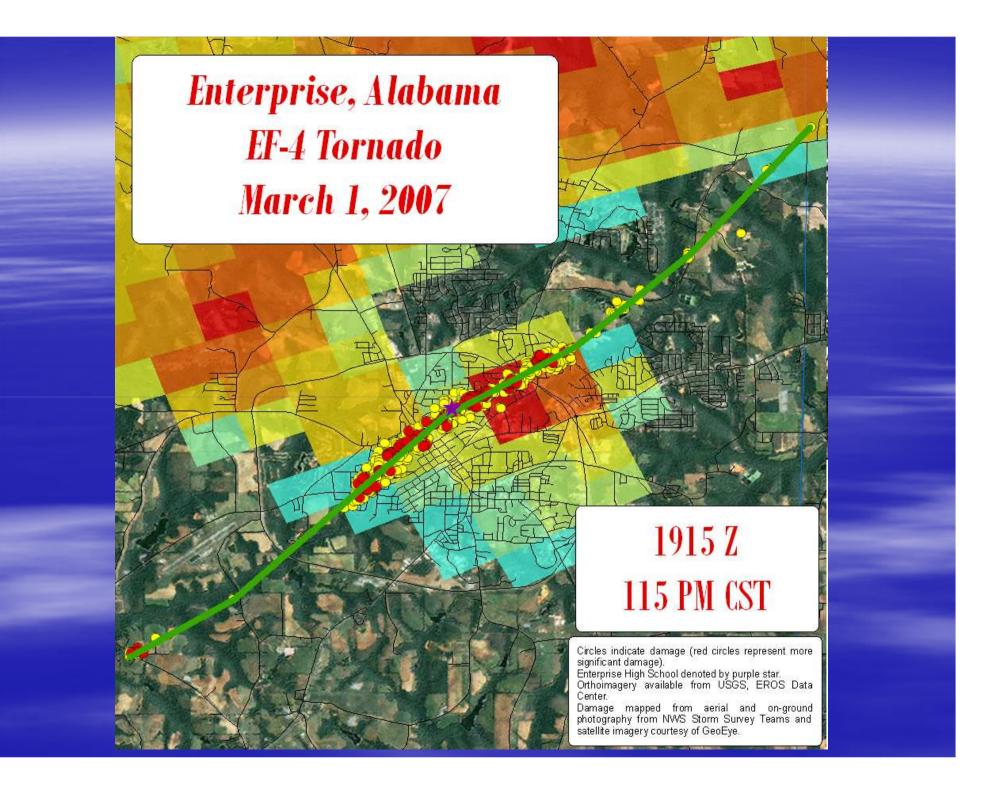


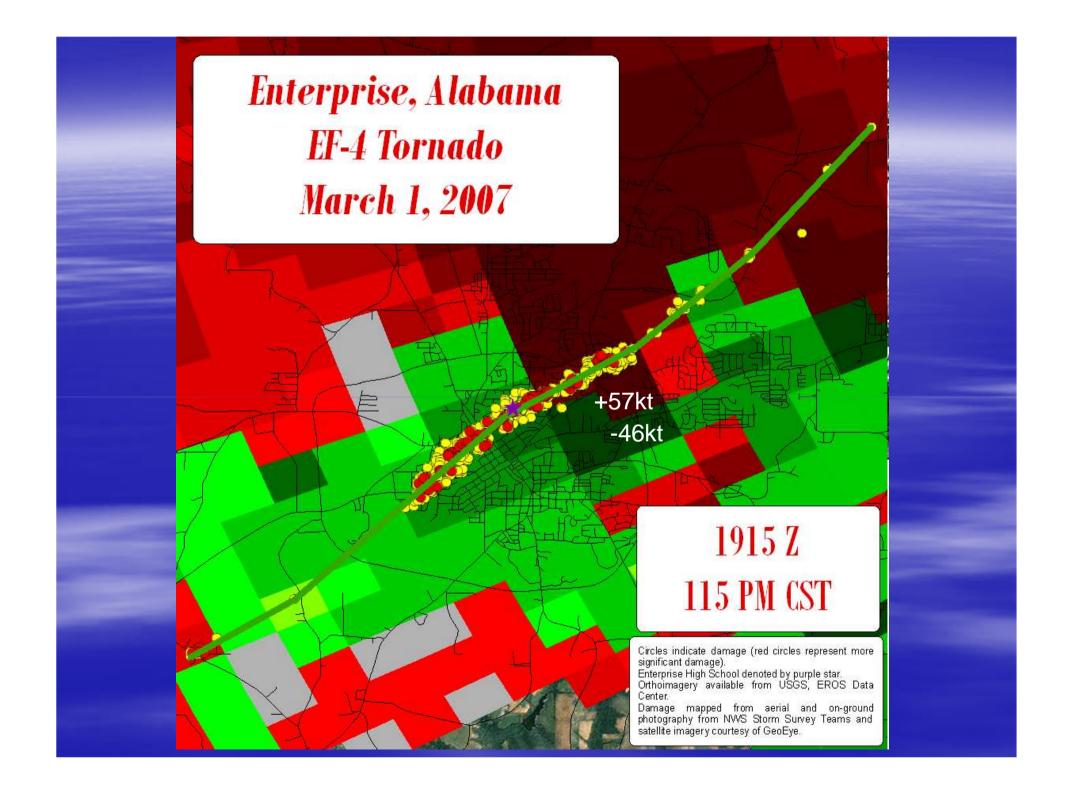


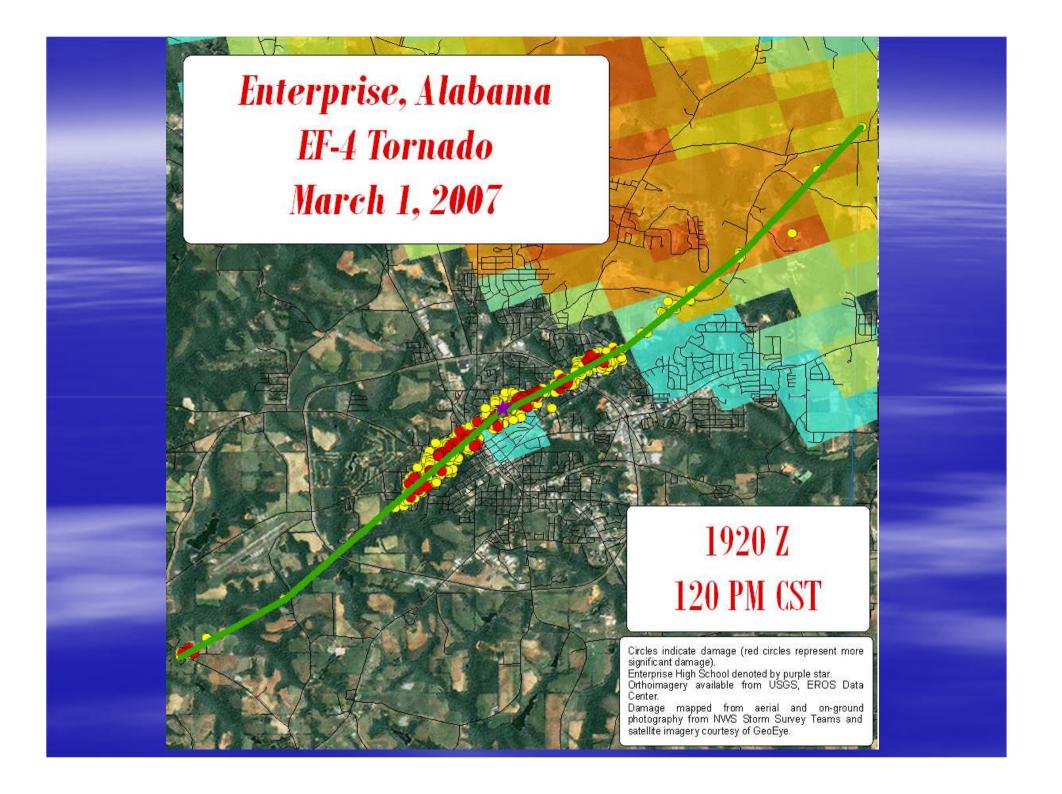
Comparing Damage Swath to Radar Data

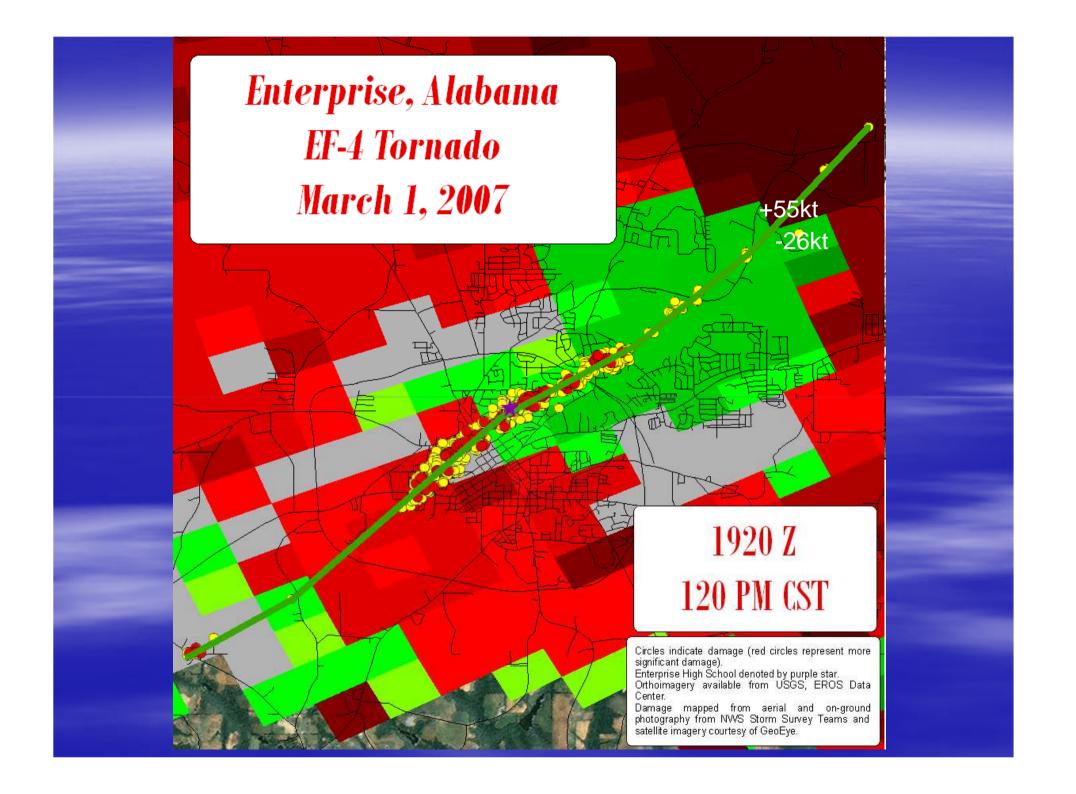












Summary

- GIS software allows for integration of multiple data sets
- Detailed Spatial View of Storm Damage
- Analysis of damage vs. radar

Acknowledgements

- Photographs
 - Bob Duggans NWS Tallahassee
 - Jim Ladue Warning Decision Training Branch
- GIS Data
 - USGS
 - ESRI
 - NCDC