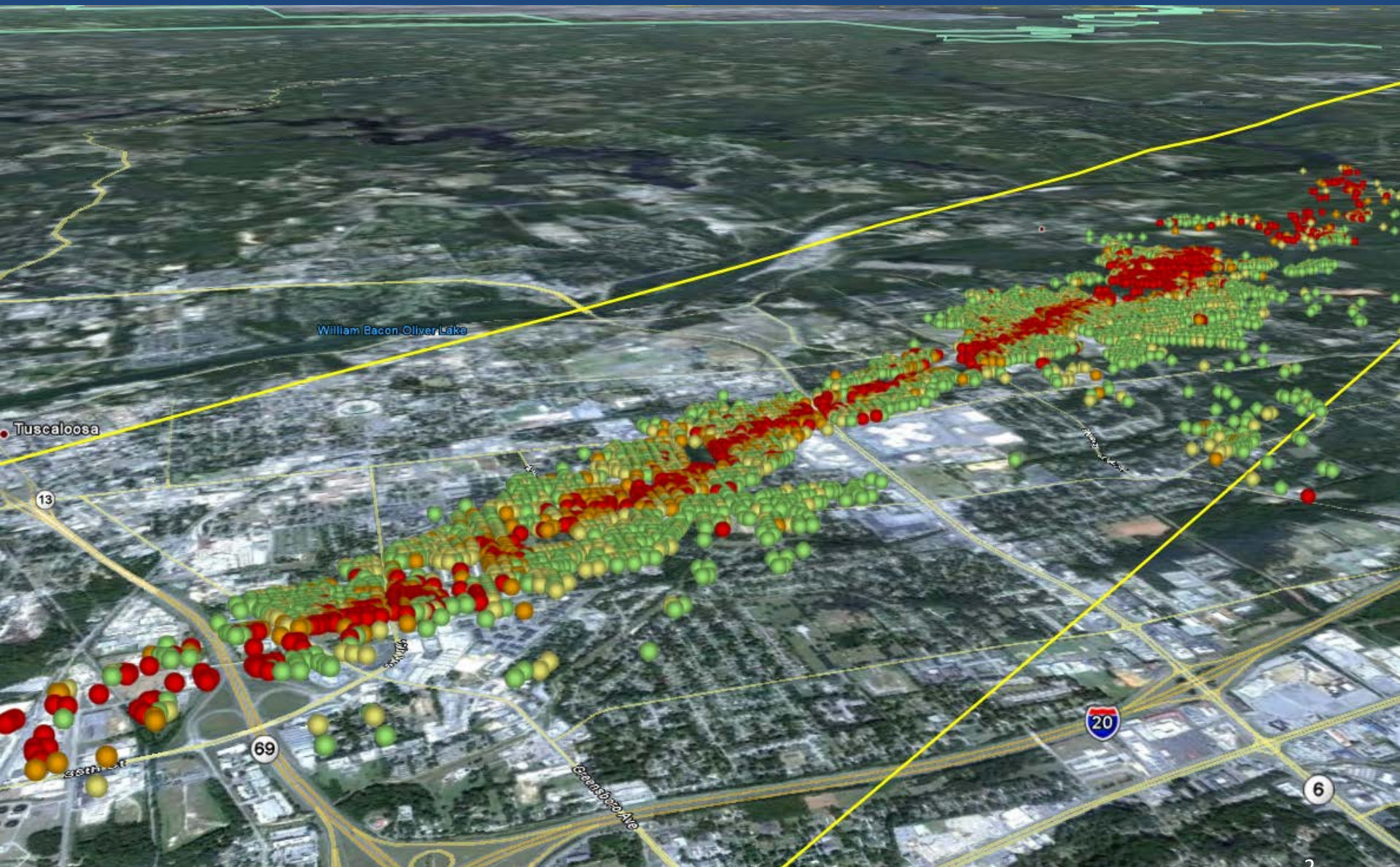




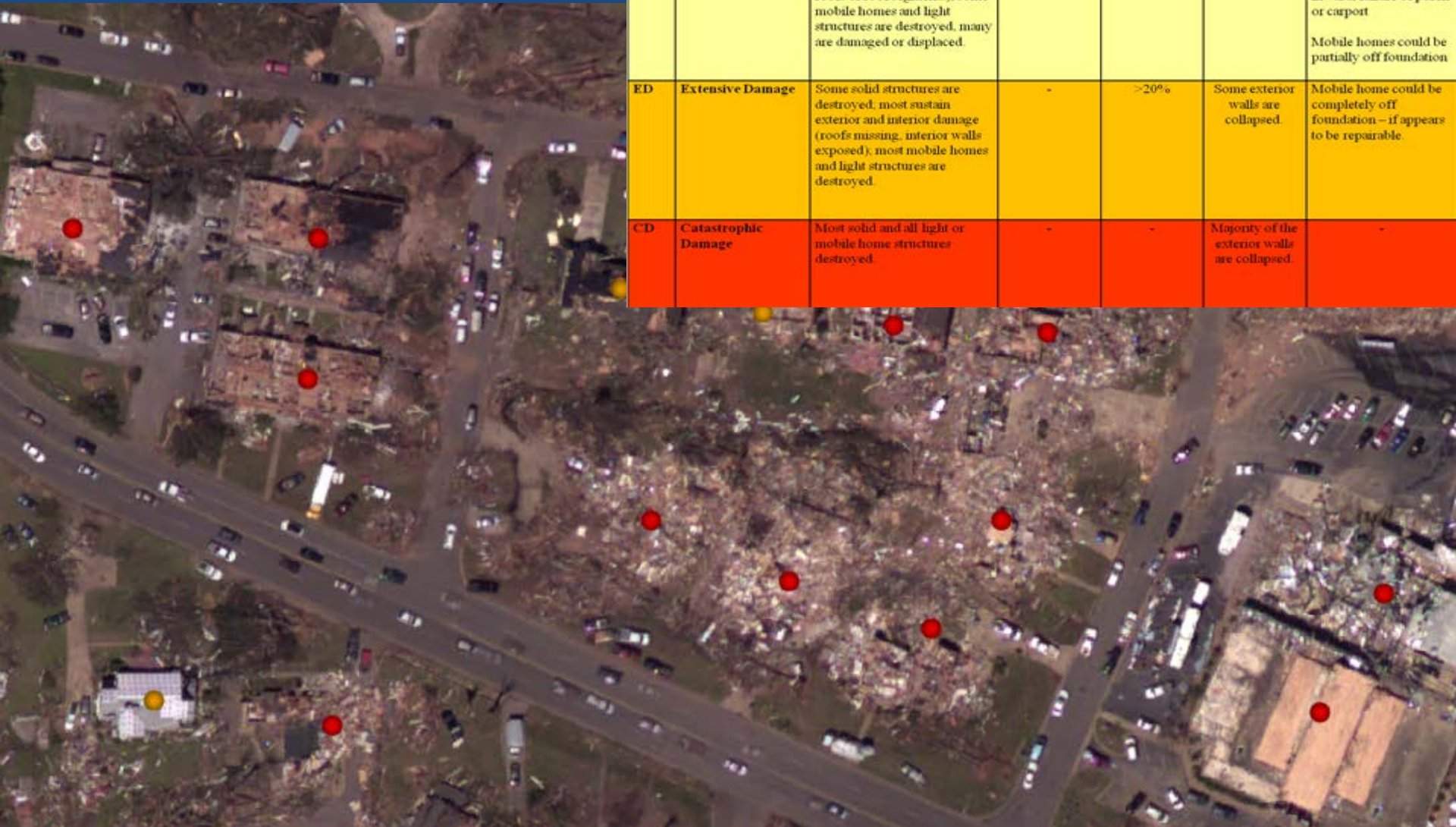
2011 April US Tornadoes

Rapid Damage Assessment Using Remote
Sensing Imagery

Overview of Damage within AOI



Per-Building Damage Assessment using FEMA's 4 Level Damage Scale



FEMA DAMAGE CLASSIFICATION			REMOTE SENSING BASED CLASSIFICATION			
DAMAGE LEVEL		OBSERVED DAMAGE	Roof Covering	Roof Diaphragm	Collapsed Walls	Other Considerations
LD	Limited Damage	Generally superficial damage to solid structures (loss of tiles or roof shingles); some mobile homes and light structures damaged or displaced.	Up to 20%	None	None	Gutters and/or awning; loss of vinyl or metal siding
MD	Moderate Damage	Solid structures sustain exterior damage (e.g., missing roofs or roof segments); some mobile homes and light structures are destroyed, many are damaged or displaced.	>20%	Up to 20%	None	Collapse of chimney; garage doors collapse inward; failure of porch or carport Mobile homes could be partially off foundation
ED	Extensive Damage	Some solid structures are destroyed; most sustain exterior and interior damage (roofs missing, interior walls exposed); most mobile homes and light structures are destroyed.	-	>20%	Some exterior walls are collapsed.	Mobile home could be completely off foundation – if appears to be repairable.
CD	Catastrophic Damage	Most solid and all light or mobile home structures destroyed.	-	-	Majority of the exterior walls are collapsed.	-



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Damage Assessment Conducted Using FEMA's 4-Level Damage Scale

