Verisk Severe Thunderstorm Model for the United States



Release Information			
Release Date	• June 2022		
Software Systems	 Touchstone 2022 Touchstone Re 2022 		
Model Details			
Domain	Conterminous United States (48 states plus D.C.)		
Peril(s) ¹	 Hail Convective straight-line winds Tornadoes of at least EF-1 intensity (≥ 86 mph) 		
Model Resolution	Location-level covering the exact footprint of each sub-peril (listed above)		
Intensity Parameter(s)	 Hail – Hail total kinetic energy (J/m²) Convective straight-line wind – Average maximum wind speed (3-sec gust; mph) Tornado – Maximum wind speed (3-sec gust; mph) 		
Geospatial Layers	None		
Touchstone Stochastic Catalogs			
Catalogs	 10,000-year (all-events and cat-only) 50,000-year (all-events and cat-only) 100,000-year (all-events and cat-only) 		
Event IDs	All event IDs are new		
Touchstone Re Stochastic Catalog			
Catalogs	10,000-year cat-only ²		
Event IDs	All event IDs are new		
Event Sets			
Historical Event Set	Total of 35 events (5 perturbations of 7 events)		
World Scenarios Event Set	None		

¹ The model supports the use of explicit peril codes created in Touchstone 2021 for each of the supported sub-perils.

² The Touchstone Re stochastic catalog contains industry losses for cat-only events and zero industry loss placeholders for non-cat events to support losses from detailed company loss files/company loss association files (CLF/CLA) that may include these non-cat events. They will not produce industry loss but will produce loss for non-cat events if they are present in the CLF/CLA.

Touchstone Geographic Resolution			
 County Complete Address (including street, city, and state) 		ZIP CodeUser-specified latitude/longitude	
Touchstone Re Lines of Business			
ResidentialManufactured (mobile) home		 Commercial/Industrial Automobile 	
Supported Construction and Occupancy Classes			
Construction	140 classes		
Оссирапсу	112 classes (includes 62 large industrial facilities classes)		
Supported Secondary Risk Characteristics (SRCs)			
Straight-Line Wind and Tornado Damage	27		
Hail Damage	13		
Industry Exposure Database			
Vintage	2019		
Geographic Resolution	90 m		