



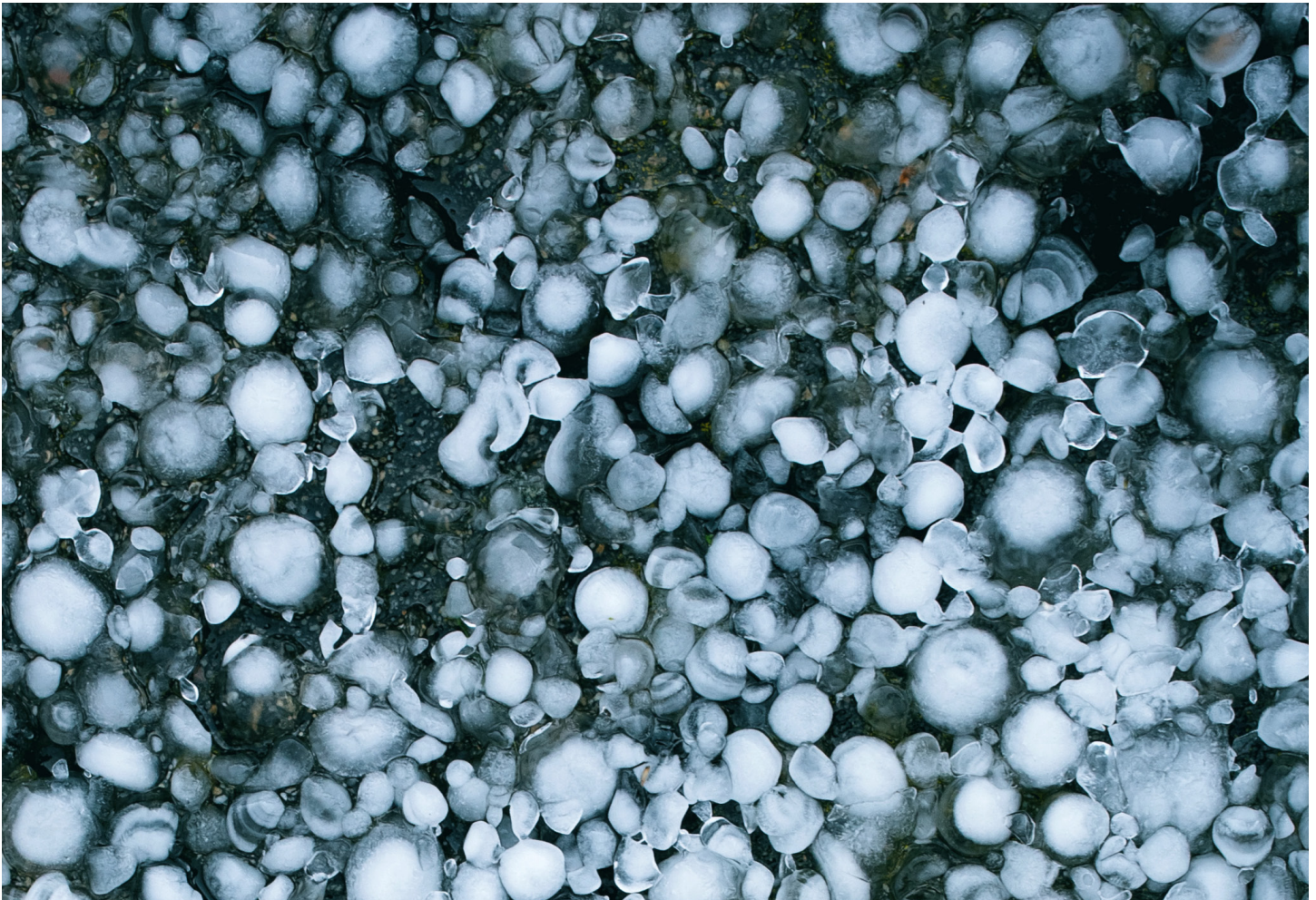
Verisk Real-Time Analytics Bundle

U.S. Severe Thunderstorm Case Study

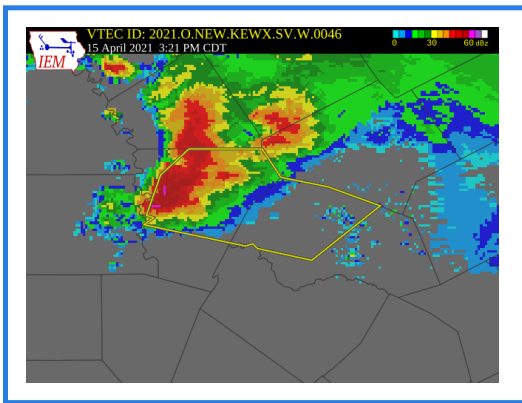


April 15, 2021 – Austin, Texas, Hail Outbreak

On April 15, 2021, a major hailstorm tracked southeastward just north of Austin, Texas. The maximum hailstone size was up to 2.75 inches, just smaller than a baseball. In roughly 90 minutes, between 3:30 p.m. and 5 p.m. CDT, this storm caused more than USD 1 billion in industry insured losses. As the storm wreaks havoc on the ground, Respond® hail data, part of the Verisk Real-Time Analytics Bundle, is delivered ~15 minutes after a severe thunderstorm event begins and is updated every 5 minutes thereafter. The Verisk Real-Time Analytics Bundle data is platform-agnostic, so it works in Touchstone®, Sequel Impact, GIS apps, and other Verisk mapping platforms.



This case study shows how this event unfolded and the associated timeline for Respond deliverables, illustrating how your company can proactively manage their risk in real time as a significant storm unfolds.



Event Timeline: April 15, 2021 3:21 p.m.

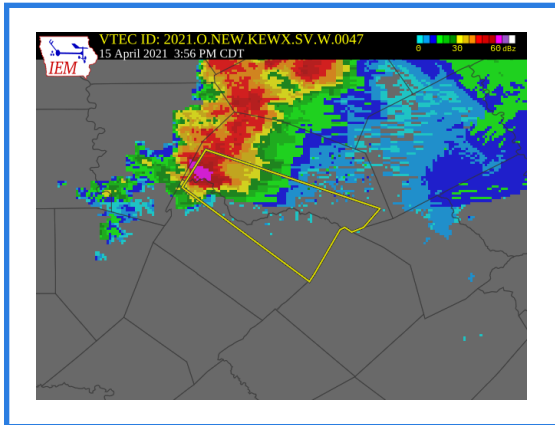
- The National Weather Service office in San Antonio, Texas, issues a Severe Thunderstorm Warning for Georgetown, Burnet, and Serenada, Texas

3:32 p.m.

- The first report of 1-inch hail falls in Burnet, Texas

3:45 p.m. (+15 mins after the first hail report)

- Respond hail data is first delivered
- Information is available from Respond before spotter reports typically come in
- Contours give estimated hail size with ¼-inch increments
- Other analytics available built on the weather data, e.g., estimate and range of expected roofs damaged



3:50 p.m. (+20 mins)

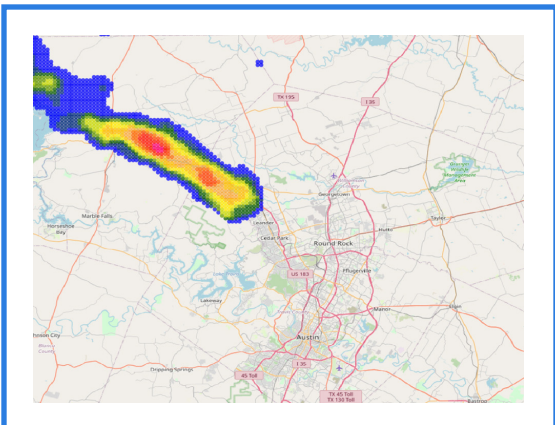
- Respond hail data is updated
- Baseball-size hail (2.75 inches) falls near Bertram in Burnet, Texas

3:55 p.m. (+25 mins)

- Respond hail data is updated
- The hail core approaches Leander, Texas, 20 miles northwest of Austin, followed by reports of 2-inch hail

4:00 p.m. (+30 mins)

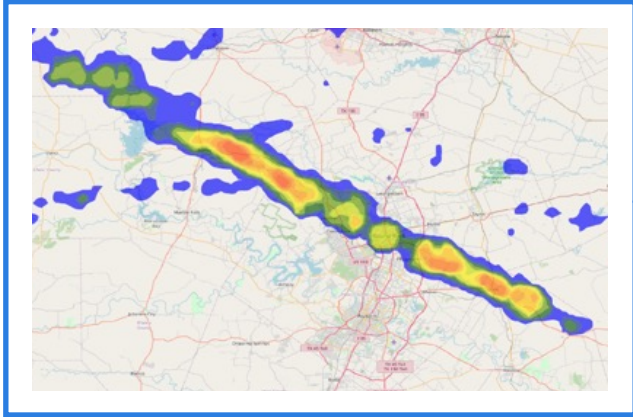
- Respond hail data is updated
 - Your claims team has received Respond footprints and can triage the damage
 - Using the **Respond** data, the claims team can determine:
 - Which risks are potentially impacted and to what degree?
 - How many claims might be expected?
 - What is the degree of response required from our claims team and where are claims adjusters needed most?
 - Proactive outreach to the insured where claims are expected to facilitate more efficient settlement
 - Where claims were not likely to come from (so that they can be on the lookout for any potentially fraudulent claims)



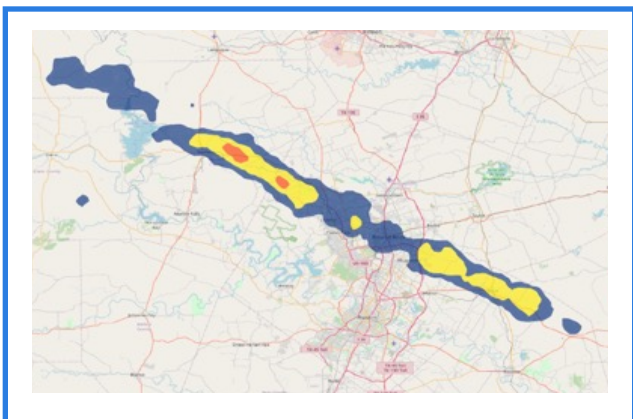
Respond hail footprint as of 4:00 p.m. CDT, with 1/4-inch hail increments.

4:05 p.m. – 5:15 p.m. (+1-1.75 hours)

- Respond hail data continues to be updated every five minutes
- The storm continues east-southeast as reports of 1.75-2.5-inch hail continue to be reported



Final, hi-res Respond hail footprint with 1/4-inch hail increments.



Respond hail footprint issued to ALERT subscribers, with 1-inch hail increments.

5:30 p.m.

- As the storm moves out of the Austin area and toward Houston, the storm weakens, and hail size drops to 1 inch.
- The final Respond update is issued

April 16, 2021

8:00 a.m. (+16 hours)

- Revisions of hail footprint based on Verisk meteorological analysis
- Catastrophe management team now has a more refined footprint several hours after the event

Insurer

- Receives and overlays shapefile on portfolio
- Confirms understanding of locations and accounts that were likely impacted
- Estimates order of magnitude of company exposure or potential loss

Reinsurer

- Receives hazard estimates by geography
- Uses hazard information to build estimate of industry or company loss via market share
- Understands which treaties may have been impacted by the event

April 16 or 17, 2021

10 a.m. (+18 hours or 42 hours)

- ALERT™ is issued to subscribers for hail event with Respond data*
 - Hail – 1-inch increments
 - Shapefile(s), available to clients for download via ALERT website

*Please note that clients who license Respond as part of the Verisk Real-Time Analytics Bundle will receive higher resolution footprints for hail and wind than clients who subscribe only to ALERT.



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