DTN Hail Swath

# Advanced Hail Detection and Analysis

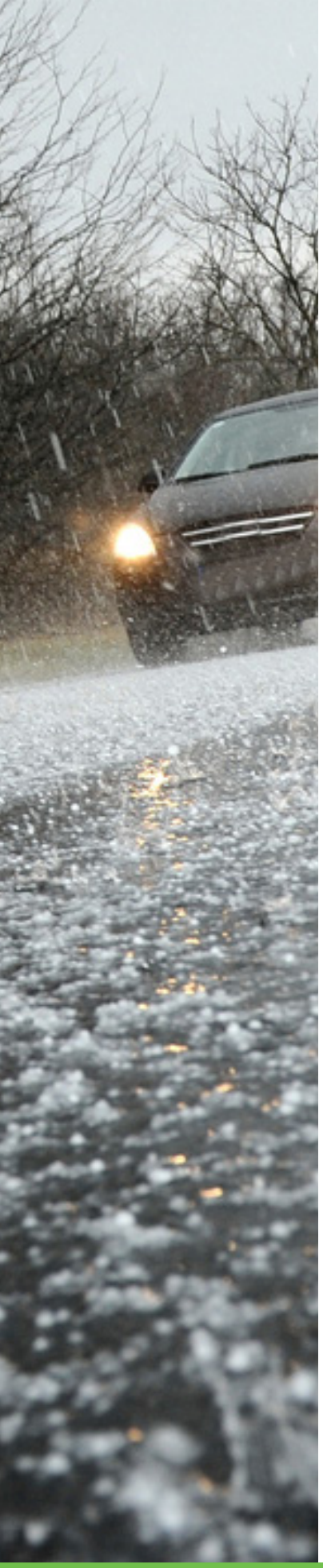
**DTN Hail Swath** uses proprietary algorithms to identify and analyze storms for the presence and size of hail in real-time. Delivering data-rich map layers that depict the area extent of the hail and hailstone sizes.

**What is "Hail Swath"?**
Hail swath is a meteorological term that describes the path and area affected by hail within a storm.

## Key features

Designed for weather-sensitive industries and emergency response decision-makers.

- Estimates hail from 0.75" to 4" in diameter
- Generates high-precision polygon contours in ¼" increments
- Data updates every 5 minutes for near-real-time monitoring
- Integrates seamlessly with ESRI platforms and similar tools including ArcGIS Online, ArcGIS Pro, and portal for ArcGIS



## Use cases

**Emergency Management:**

- Rapid response to severe weather events
- Public safety communications and warnings

**Claims Management:**

- Streamline claims processes
- Enhance catastrophe response strategies
- Improve underwriting accuracy

**Restoration / Roofing:**

- Identify potential damage areas quickly
- Optimize resource allocation for repair teams
- Provide accurate estimates

**Agriculture:**

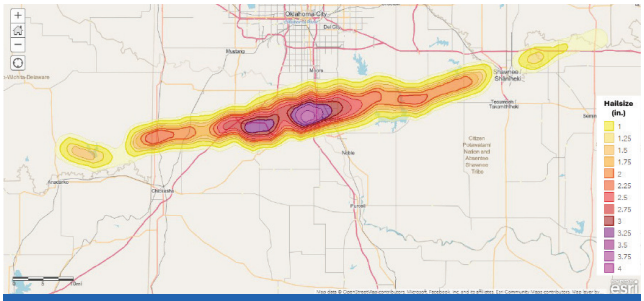
- Assess potential crop damage
- Guide decision-making for protective measures

**Agriculture:**

- Contribute to the scientific understanding of hail formation and distribution
- Support climate studies related to severe weather patterns

## Radar versus on-the-ground*

**DTN Hail Swath** offers a wide-area solution for hail detection and analysis. While ground-based sensors provide valuable point-specific data, DTN Hail Swath excels in delivering comprehensive, real-time hail information across expansive regions.




This image depicts the area extent and maximum expected hail size (in 1/4" increments) of a damaging hailstorm that struck Norman, Oklahoma, resulting in widespread property damage on the evening of April 28, 2021; the analysis covers the 24-hour period ending at 0600Z on April 29, 2021.

| **DTN Hail Swath approach** | VS | **Ground-based sensors** |
|---|---|---|
| Primarily uses radar data | | Measures hail only at specific points |
| Peer-reviewed scientific research | | Higher variability, localized conditions |
| Comprehensive coverage areas | | Precise data only at sensor/observer locations |

## Discover more

Visit our website to learn more about how DTN can help you.

www.dtn.com

*DTN Hail Swath measures hail differently from ground-based sensors; with inconsistent methods, a direct comparison or inter-calibration cannot be performed. DTN does not test ground-based sensors and does not provide technical information.