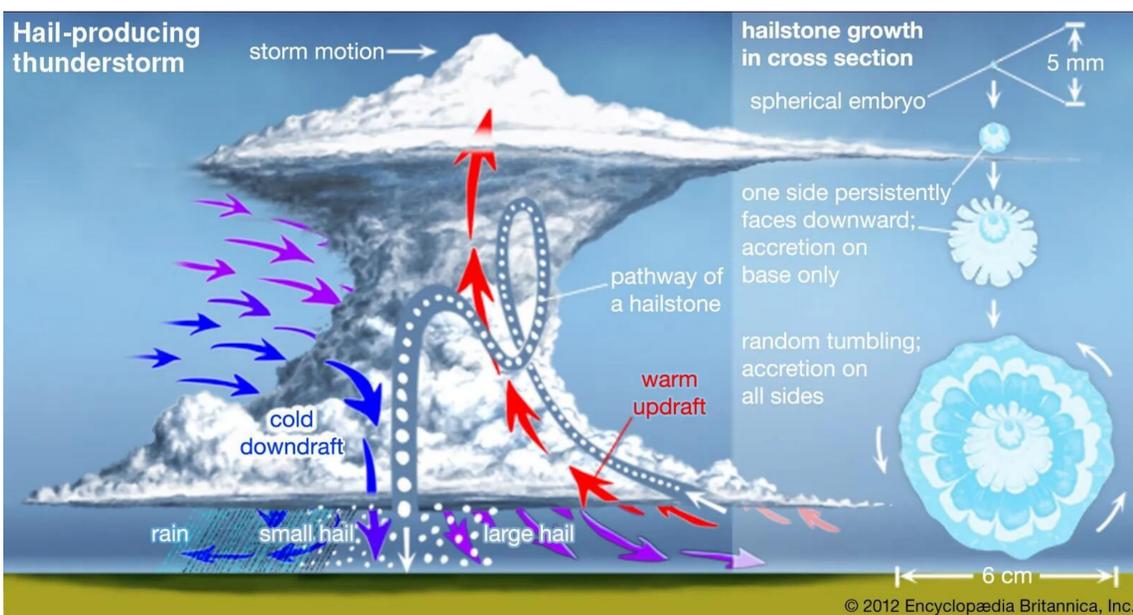


# You can Win the Battle against Damaging Hail!

Early awareness, ongoing monitoring, and a coordinated mitigation plan are a must!

## Understanding Damaging Hail and Mitigating the Impact to Solar Operations.

Marty McKewon, Chief Meteorologist Indji Systems



### Be Weather Aware

Damaging hail events rarely are a surprise. Outlooks for large hail are produced daily for the next 24 hours. Are your assets in a threat zone?

### Have a Mitigation Plan

- Identify the threat early
- Communicate the threat to all vested parties
- Day of the threat requires ongoing monitoring
- Assign responsibility for your stow plan

### Mitigation Plan cont.....

- Post event assessment
- What in your process can improve?

### Tools for Success

- SPC Damaging Hail Outlooks
- Prediction of Supercells
- Ongoing threat notifications
- Imminent threat alerts for action

### Discussion

- Do you have a written mitigation plan?
- Have you tested it?



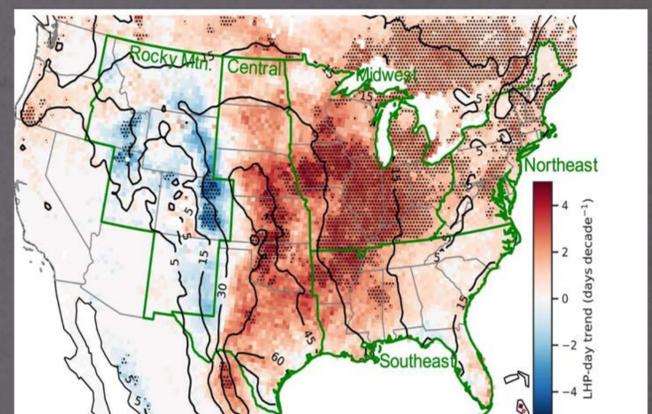
### Damaging Hail is on the Rise

Most Summer Significant (2+ inch) Preliminary Hail Reports (528) on Record (2004-present)

Number of 2+ Inch Hail Reports	Summer (June, July, August)
532	2023
378	2009
360	2011
312	2010
299	2014, 2016
286	2018
276	2015

Since record keeping began in 2004, no 3 month summer period has ever experienced more 2+ inch hail reports than the summer of 2023.

### The Area Under Threat is Expanding



The image represents an analysis from 1979-2017 of the trend in large hail parameter days. (LHP) LHP represents hail 2" or larger. The trend shows an increasing number of large hail over much of the central U.S. extending into the Northeast and eastern Canada. Stippling indicates where trends have a 95% confidence level.

### Acknowledgements

Image: Damaging Hail on the Rise – Storm Prediction Center / National Weather Service

Image: Large Hail Parameter Days –

Trends in United States large hail environments and observations

Wen, H., Tang, W., Vittorio, A., Gosselin, G., Cameron, R., Hommer

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