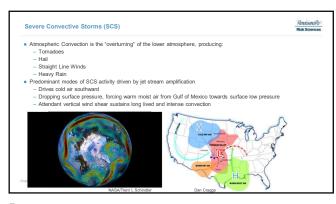
## Antitrust Notice Pressure Table Society • The Casualty Actuarial Society is committed to adhering strictly to the letter and spirit of the antitrust laws. Seminars conducted oforum for the expression of various points of view on topics described in the programs or signeds for such meetings. • Under no circumstances shall CAS seminars be used as a means for comparing comparies or times to exact an independent business judgment regarding matters affecting competition or in any way indirust read ability of members to exact hole holes not business judgment regarding matters affecting competition to be aware of antitrust regulations, to prevent any written or verbal discussions that appear to violate these laws, and to adhere in every respect to the CAS antitrust compliance policy.

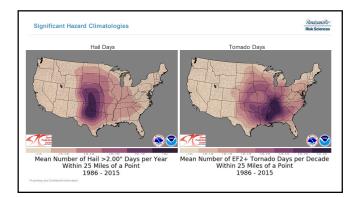




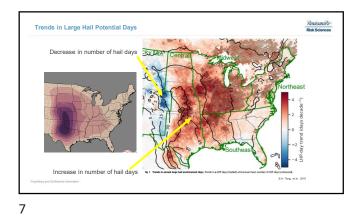




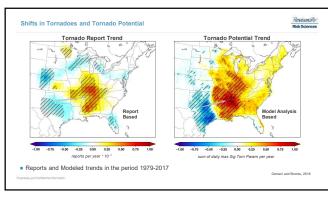






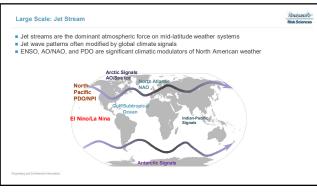




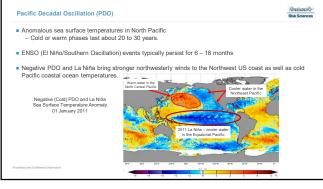




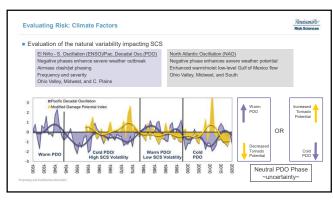






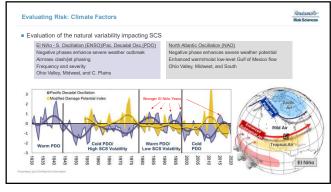




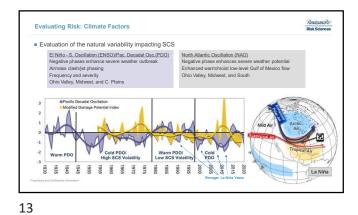








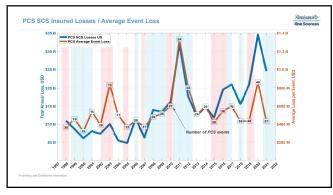




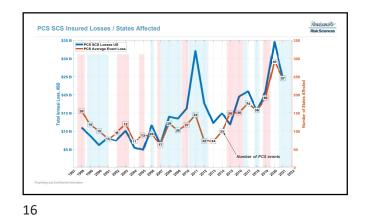


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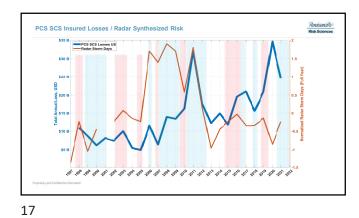




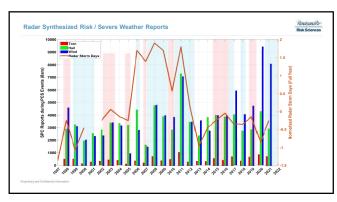












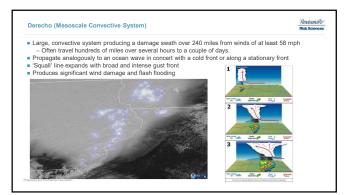


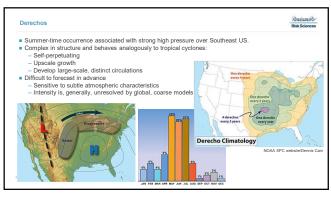
## Summary of Part 1

## RauisanaRe Risk Sciences

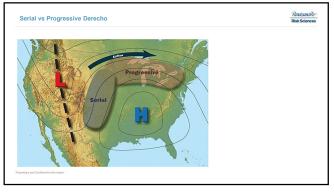
- Severe weather potential has shown significant variability, with some long-term shifts and trends
  - Recent research suggests slight changes in <u>potential</u> for tornado and hail in the past few decades
     Regional hazard behavior correlated with interannual and/or decadal variability, e.g. PDO, La Niña
- Severe Weather losses have increased significantly over the past 20 years, with occasional volatility
   Aggregate losses nearly tripled over 25 years (PCS)
- The number of PCS events have increased over the past decade
   Loss experience appears to be outpacing trends in hazard
- Event counts and loss increases show some independence from hazard frequency/intensities
- Overall hail reports have been well below average the past few years (not shown)
- Wind reports and wind related losses have taken a more prominent role since 2017

19

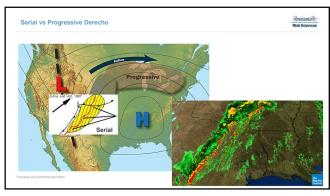


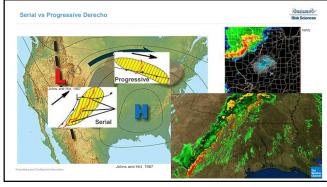


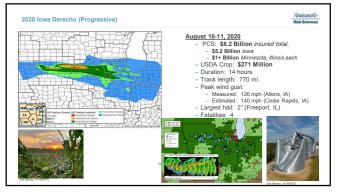




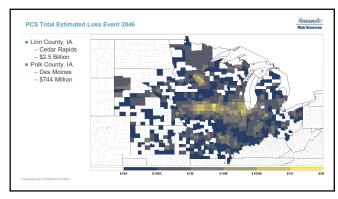






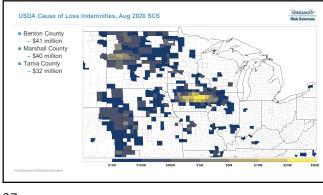




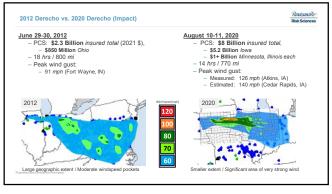


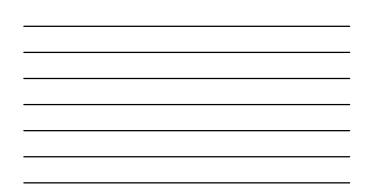




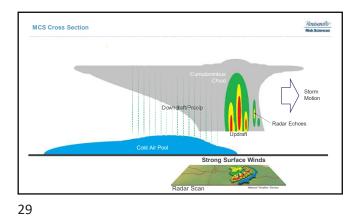




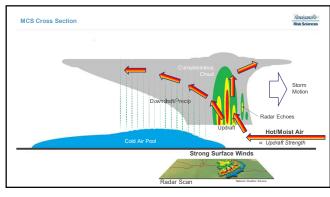




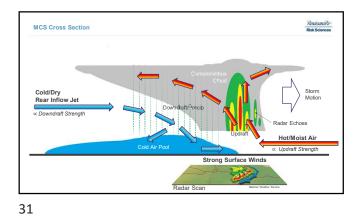








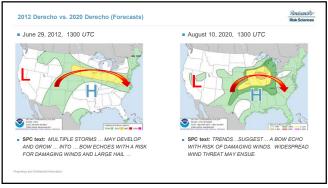


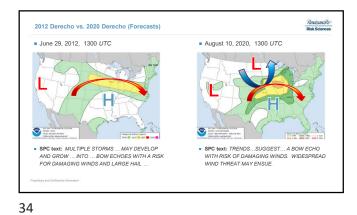


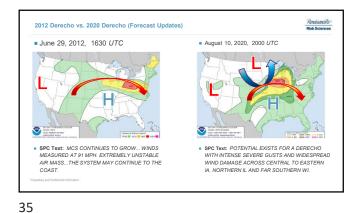


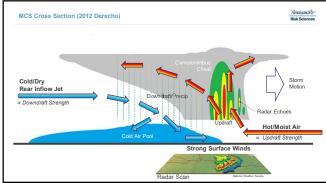
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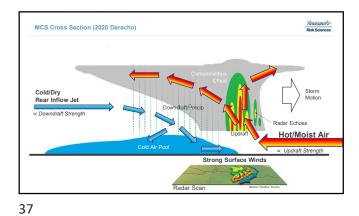


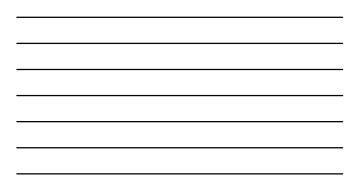












MCS Cross Section (2020 Derecho) Red Source Cold/Dry Rear Inflow Jet • Cowndraft Strength • Cold Air Pool • Compared to 2012 • Warmer and wetter "Low Level Jet" • Stronger, colder, much drier Rear Inflow Jet" • Stronger, colder, much drier Rear Inflow Jet • Stronger Downdraft and Cold Pool surge





