Downward counterfactual analysis of tropical cyclone losses using forecasts and catastrophe models.

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Three near-miss events
Alternative versions of reality
Hundreds of thousands of possible hurricanes
Forecasts

Stochastic tracks
How much higher could the loss have been?
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Irma: $25 \times 300$

Dorian: $250 \times 250$

Matthew: $300 \times$
Top loss tracks

- Dorian
- Irma
- Matthew

Top 5 events • Top event • Miami
If all three had hit Miami...

- How would reinsurance markets respond?
- What different decisions would be made?
- Would your business be solvent?
What can we do right now?

1. Define materiality ranking
2. Highlight exposure hotspots
3. Investigate near misses
4. Explore alternative business decisions
Thank you