

Quantifying the Risk From Climate Change

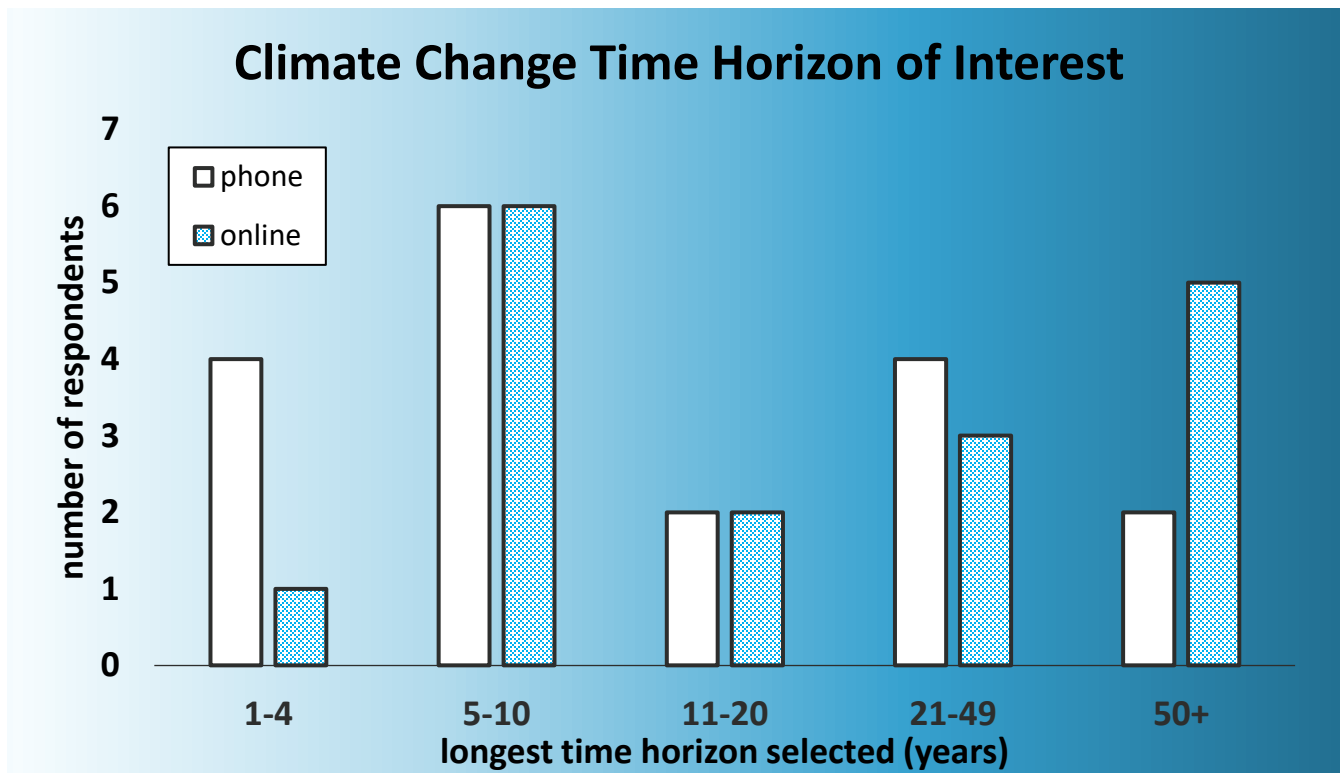
Peter Sousounis, Ph.D.
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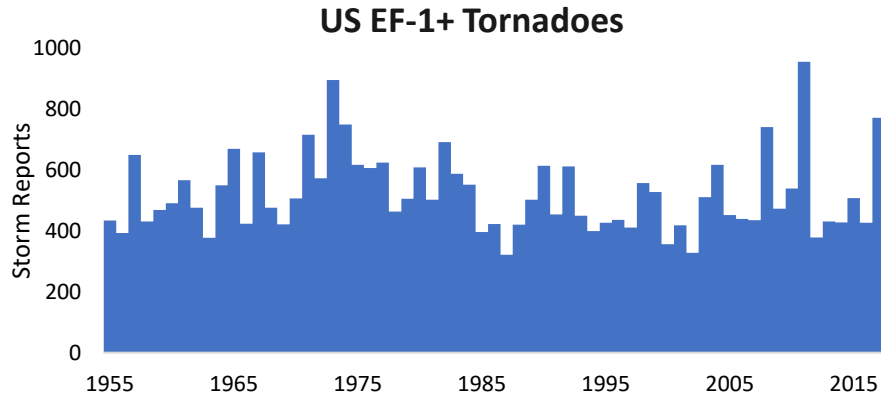


Insurance Industry Interested in Spectrum of Time Horizons

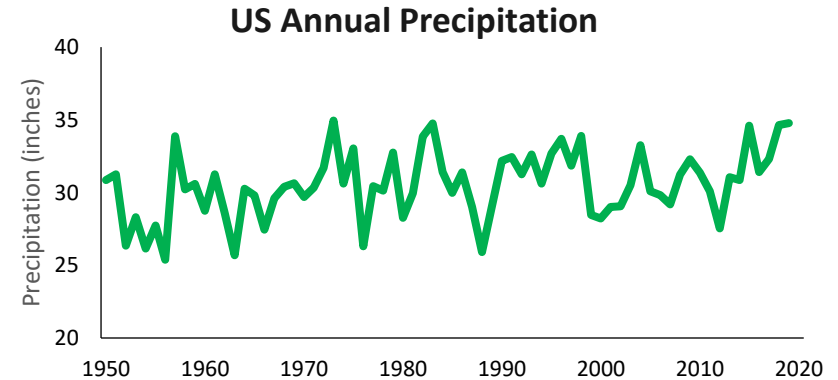
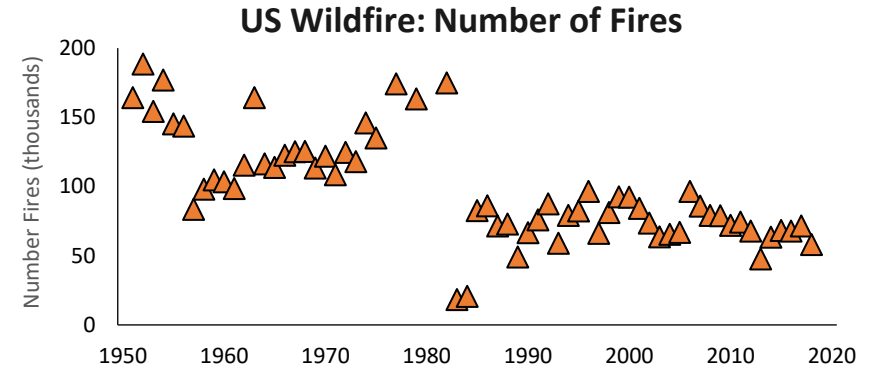


Understanding Time Series is Key to Accounting for Climate Change

- Is there a trend?
- If so is it climate related?
- If its climate related, is it significant?
- What is the variability like?

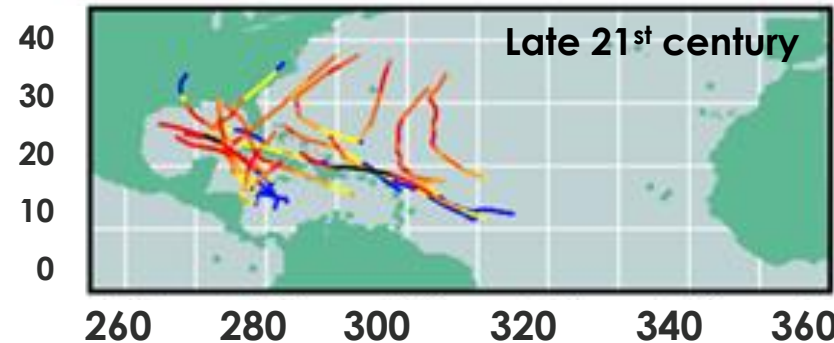
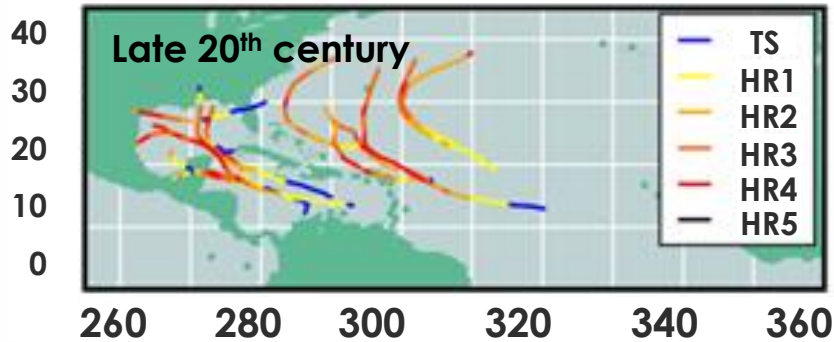


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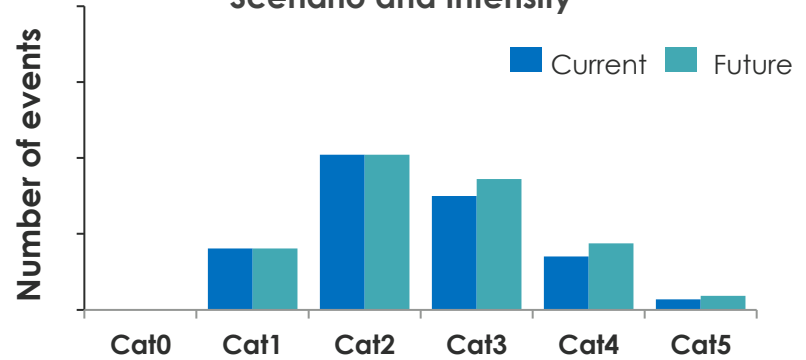
Climate Change Conditioned Catalogs Can Quantify Risk on Longer Time Horizons



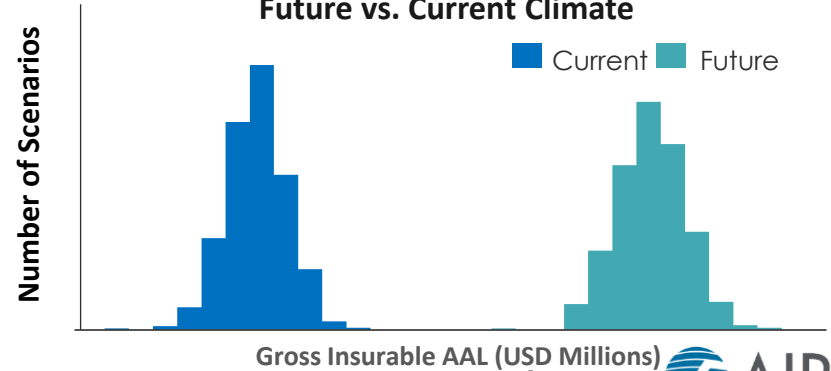
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Number of U.S. Events By Scenario and Intensity



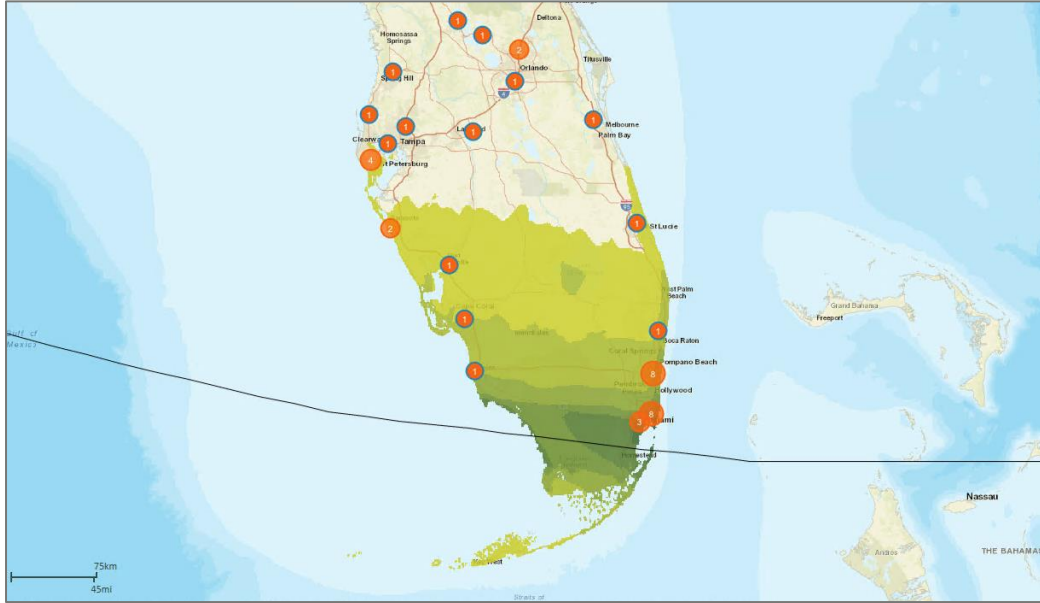
AAL Distributions U.S. Hurricane Future vs. Current Climate



Gross Insurable AAL (USD Millions)



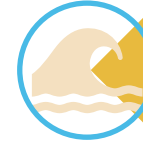
Climate Change Scenarios Can also Provide Greater Understanding of Sensitivities



Forward Speed



Storm Size



Sea Level Rise



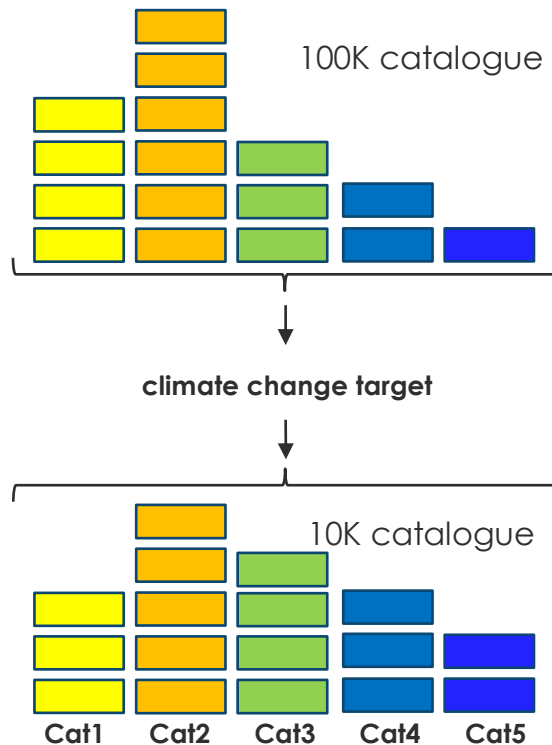
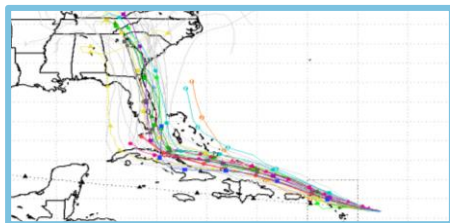
Storm Intensity



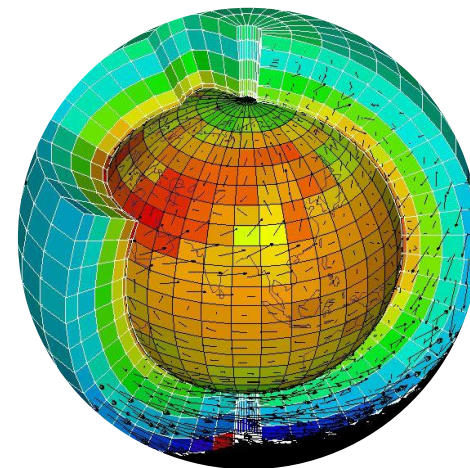
Precipitation Rate

A Spectrum of Solutions to Address Climate Change Risk

Climate Change Scenarios



Climate Change Models from Scratch



Climate Change Catalogues from Sub-Sampling