Everybody Complains About the Weather...

A look at the changing weather patterns of the World and how the Property Insurance market is reacting.

June 9, 2021







Presenters



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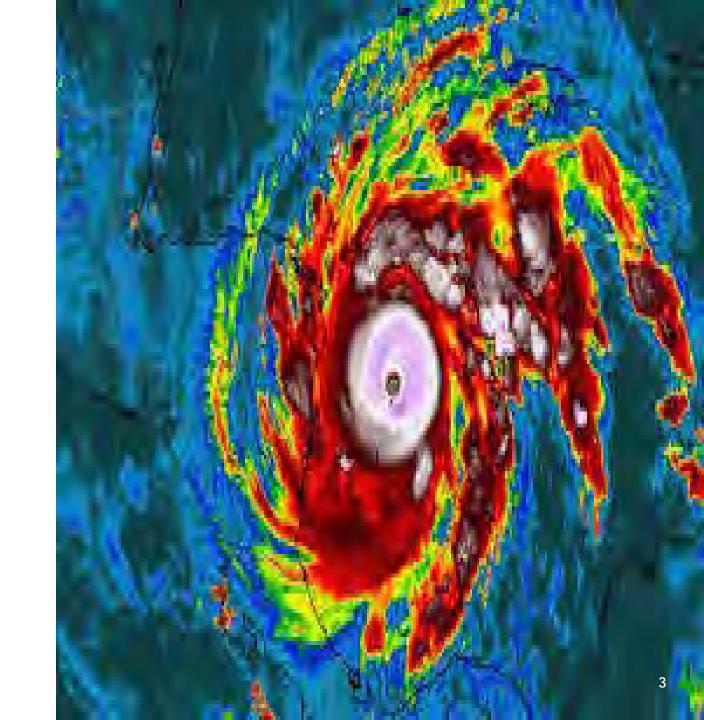


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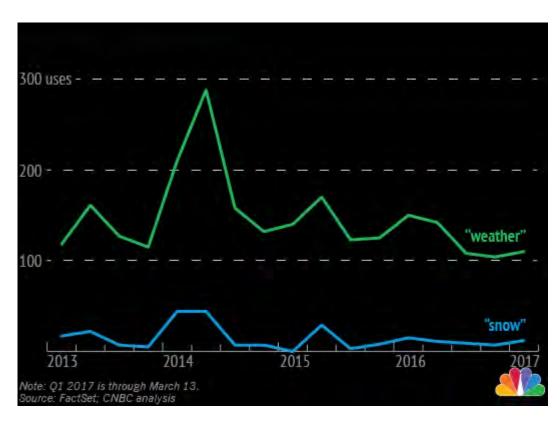
Agenda

- Introductions
- The Weather A Holistic Perspective
- The Global Insurance Market
- How to Optimize Your Renewal
- Questions

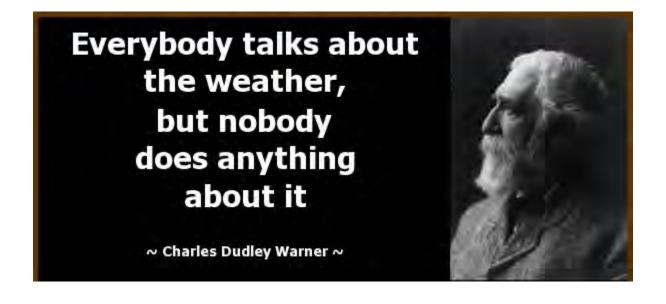


Weather Should Not Be an Excuse





Mentions of weather related terms in S&P 500 companies earning calls by calendar quarter. (2013 – 2017)



While companies cannot control the weather they are now expected to understand its effect on their business in order to make an educated decision on how to minimize volatile weather risks to better control the risk on its financials.

Unusual Weather We're Having, Ain't It?





The Wizard of Oz -1939

The cowardly lion says "Unusual weather we're having, ain't it?" as he notices the fallen snow on the poppy field.

Interestingly, this might also be the first case where a blockbuster movie promotes the idea that average weather can manifest into "extreme weather," such as a garden-variety tornado in Kansas turning ugly and transporting people to alternate universes.

Movies and More

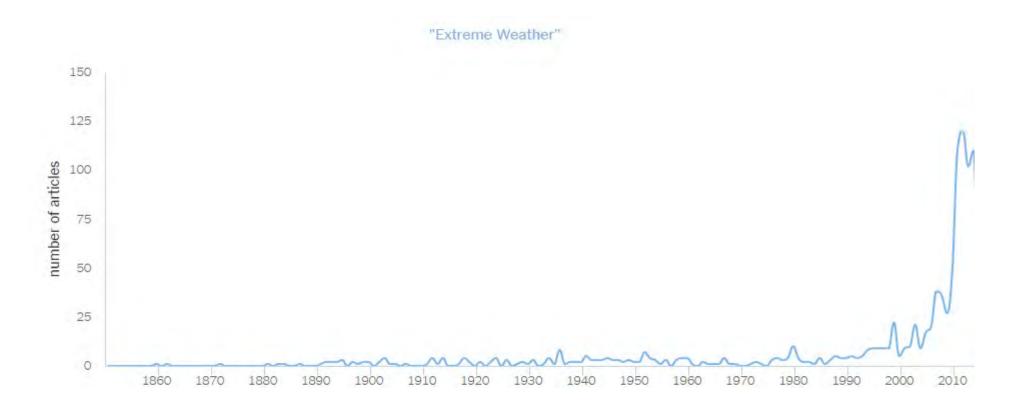




The Notion of Extreme Weather



When analyzing the **162 years of The New York Times**, one can see that extreme weather has been reported on in the past. However, recently the **term has been used much more frequently** by the media.



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The existence of self-proclaimed "armchair meteorologists" is at an all-time high.

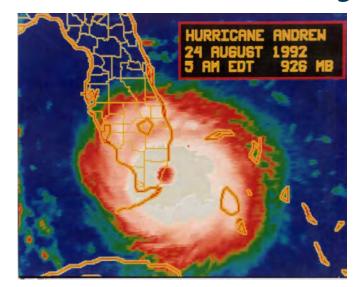
It has never been easier to get weather information via a blog, Twitter, or on television, which now has at least **four cable channels** devoted solely to weather.

Because weather impacts almost everyone on a daily basis and changes often, it is closely watched. However, with this accessibility of information, one can easily become brainwashed with the idea that normal weather is somehow extreme.



Weather Memory Is Generational





Is Hurricane Andrew still in memory?



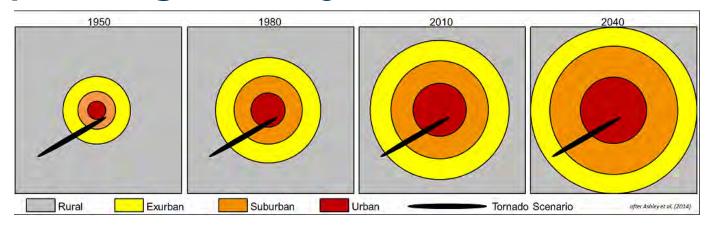


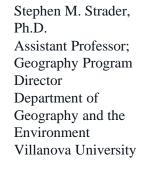
We only really remember the last major weather event.

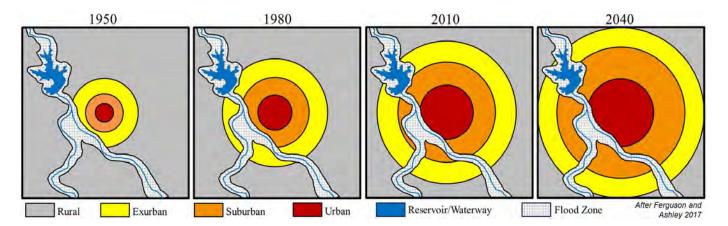
Few people alive even remember the 1926 Miami Hurricane

The Expanding Bull's Eye Effect









"Targets"—i.e., humans and their possessions—of geophysical hazards are enlarging as populations grow and spread. It is not solely the population magnitude that is important in creating disaster potential, it is how the population and built environment are distributed across the landscape that defines how the fundamental components of risk and vulnerability are realized in a disaster.



Natural Catastrophes Increasing?

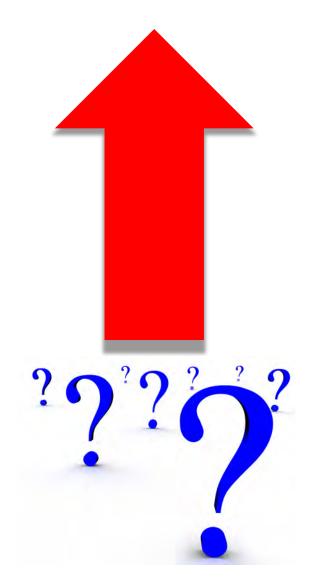
Increasing Population

Increasing Values

Concentration in Exposed Areas

Insurance Penetration

Changing Hazards



Know the Difference



Climate and weather are not the same.

Weather:

is the particular set of abiotic conditions, such as rainfall, sunlight, temperature and humidity affecting a particular area at a particular time.

Climate:

is the overall pattern of weather at that area.

Weather changes daily.

Climate changes over decades, or hundreds or thousands of years.

CLIMATE IS WHAT
WE EXPECT,
WEATHER IS WHAT
WE GET.

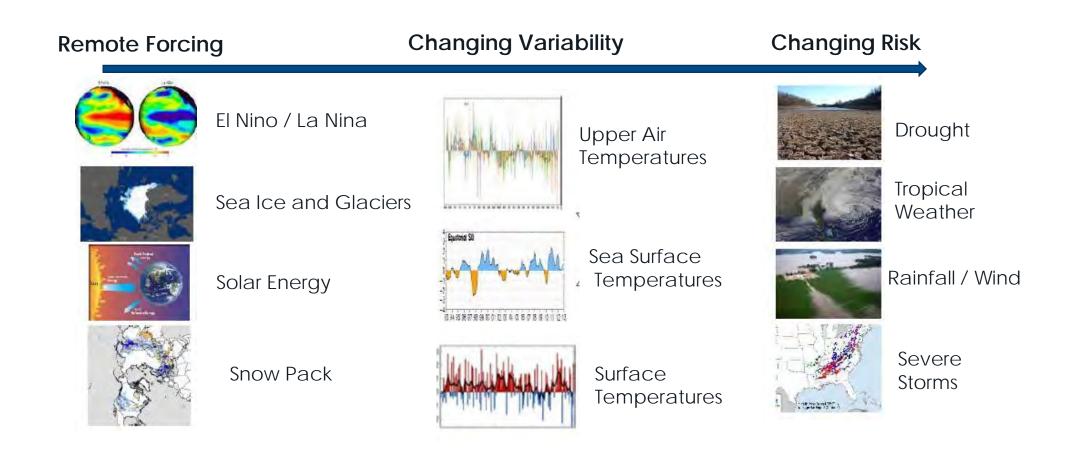
Mark Twain

American Author and Humorist
(1835-1910)

Complex Physical Problem

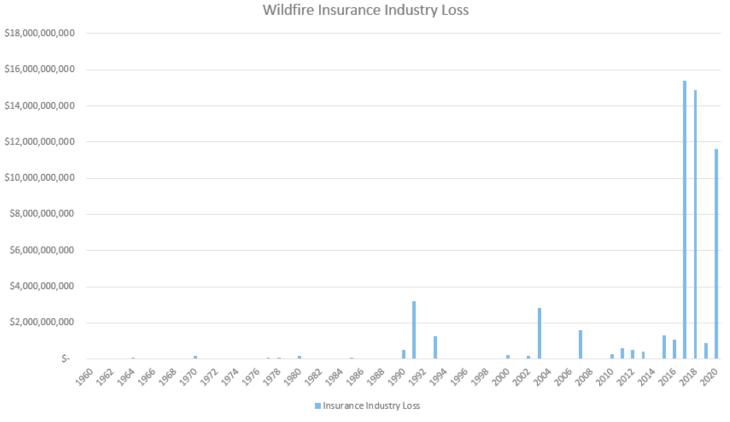


Changes in the atmosphere and/or ocean can trigger changes in the variability and overall state of the weather and climate locally in time and space.



Wildfire Events





Wildfire which used to be considered as a **secondary peril** for the insurance industry is now considered a primary peril for the insurance industry. In fact, there are now **12 different hazard model vendors** that are trying to help the insurance industry understand this risk.





The National Interagency Fire Center (NIFC) and National Interagency Coordination Center maintained wildfire records from 1960 to 1982 before the NIFC began its current method of data compilation from states and other agencies in 1983.

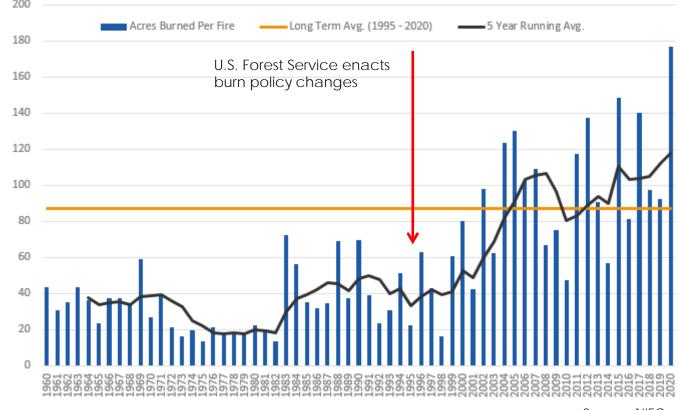
Reasons?

Larger Fires

Changing firefighting tactics and land use.

Extended fire season

 more heat and fuel, and shifts between wet and dry periods.



Source: NIFC

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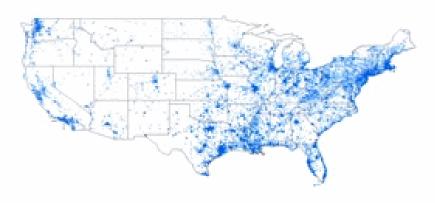
Source: Monitoring Trends in Burn Severity (MTBS Unnamed California Wildfire San Diego Area

This unnamed wildfire that occurred in San Diego in 1993 burned very few structures. Today it would be a major wildfire loss for the insurance industry. The WUI is growing more populous, the likely result being greater wildfire losses in the future.





Cumulative Claims, National Flood Insurance Program



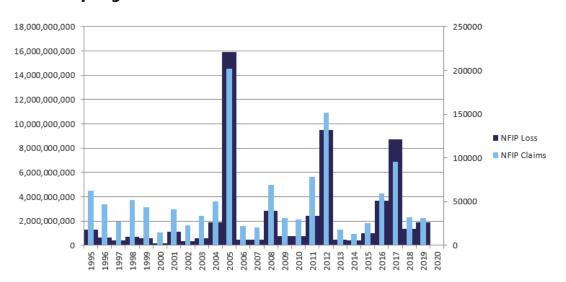
1970 - 1992

ingilp.com

Flood insurance claims are piling up across the nation, even in areas far from the shore.

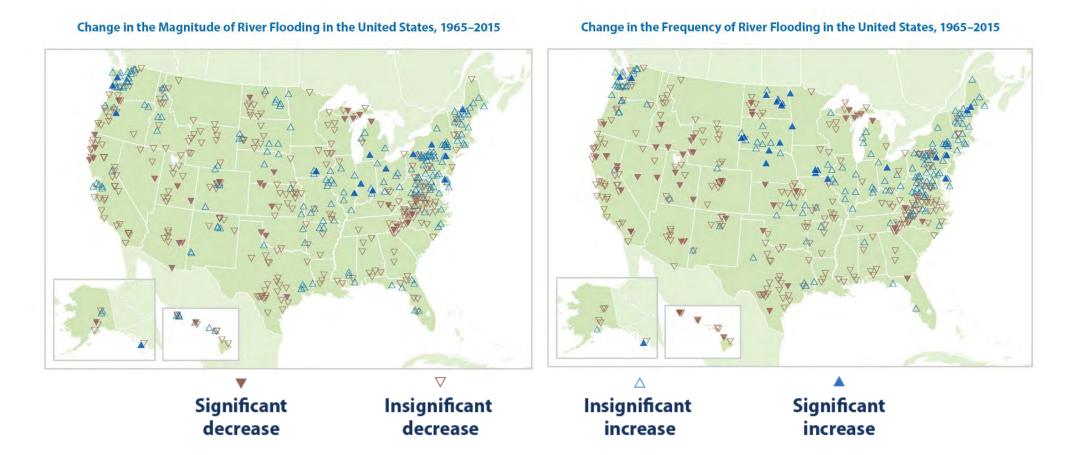
Hurricanes are the biggest driver of loss.

Federal Emergency Management Agency (FEMA) has released tens of millions of records from the National Flood Insurance Program (NFIP). The data release includes over 50 million policy transactions from the past decade and information on 2.4 million damage claims dating back to 1970, representing nearly \$70 billion in payments.



River Flood Frequency and Magnitude



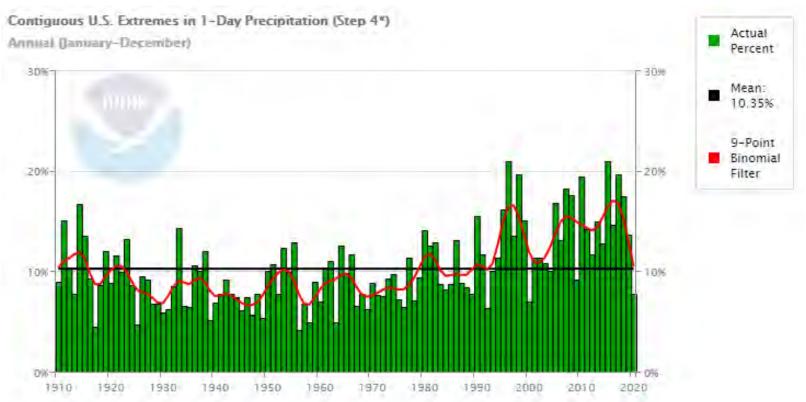


Data source: Slater, L., and G. Villarini. 2016 update and expansion to data originally published in: Mallakpour, I., G. Villarini. 2015. The changing nature of flooding across the central United States. Nature Climate Change 5:250–254.

For more information, visit U.S. EPA's "Climate Change Indicators in the United States" at www.epa.gov/climate-indicators.

Daily Rainfall Trend



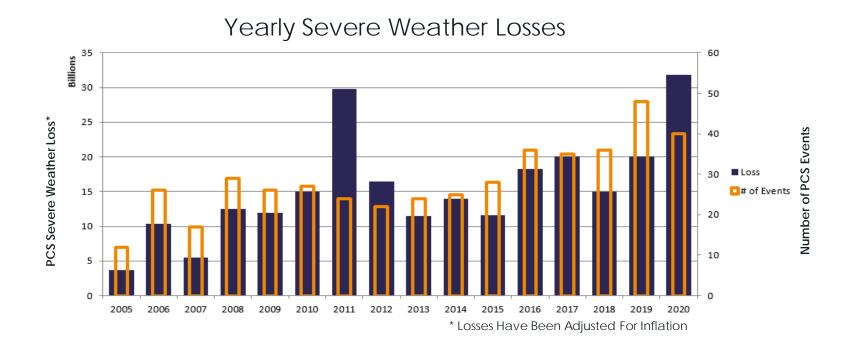


This figure shows the percentage of the land area of the contiguous 48 states where a much greater than normal portion of total annual precipitation has come from extreme single-day precipitation events. The bars represent individual years, while the line is a nine-year weighted average.



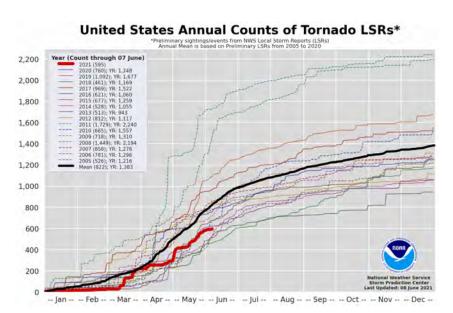


2020 is likely the highest loss year in modern history! On par with 2011 which was largely driven by major tornado losses. This year actually had less major tornado loss events with losses driven by wind events. **One of the largest loss events in the U.S. was in lowa due to the Derecho.**





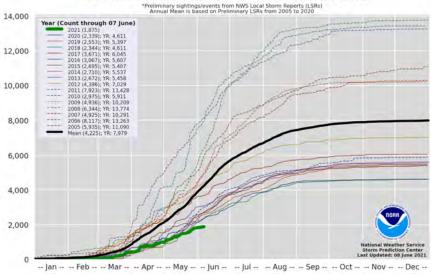




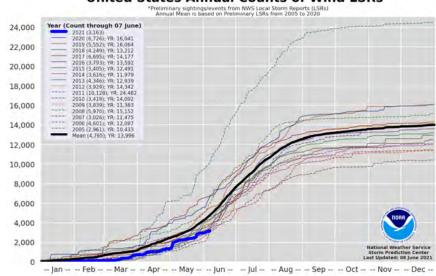


- Hail YTD reports 1,875 (Avg 4,225)
- Wind YTD reports of damage stand at 3,163 (Avg 4,765)
- No Severe Weather peril is above the mean so far this year.

United States Annual Counts of Hail LSRs*



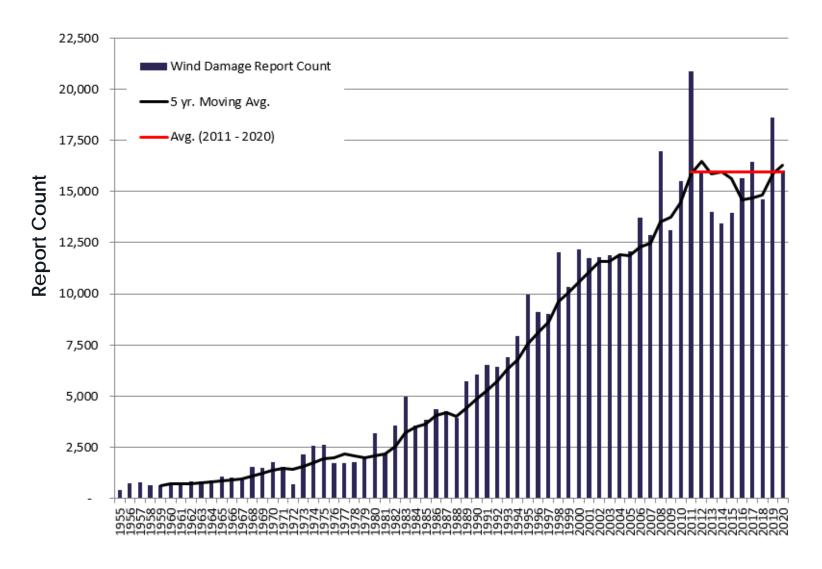
United States Annual Counts of Wind LSRs*



Source: NOAA Storm Prediction Center

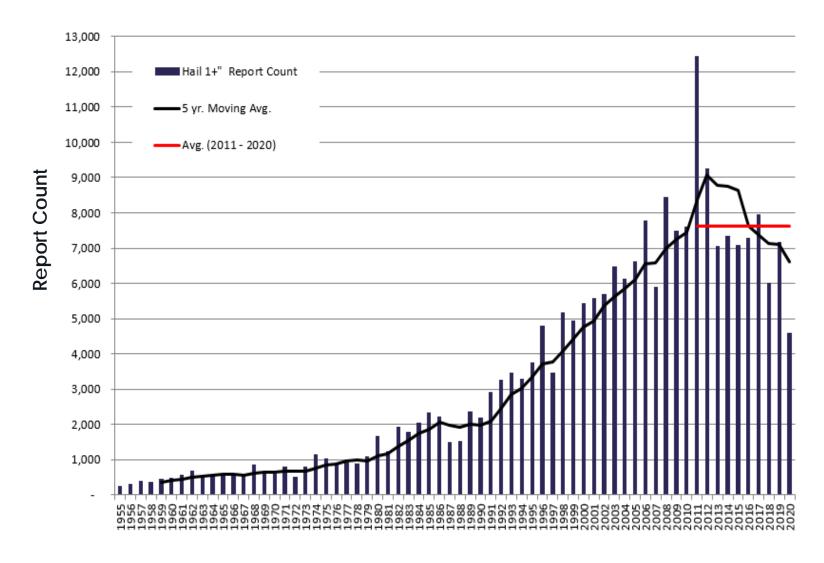
U.S. Annual Counts of Wind Damage Reports





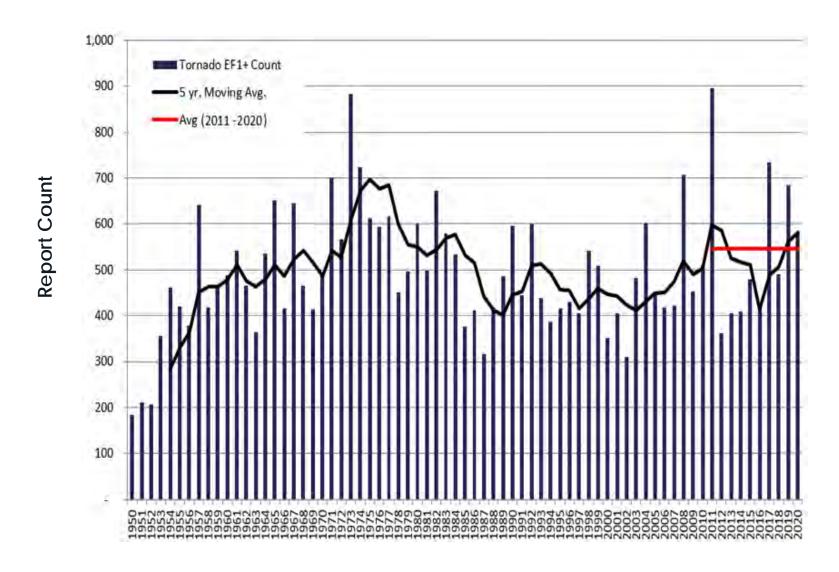






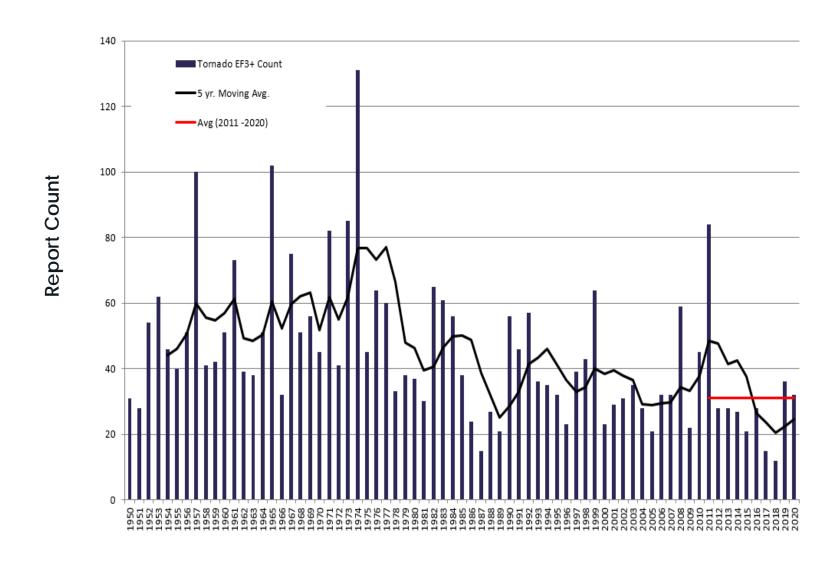
U.S. Annual Count of EF-1+ Tornadoes











Matter of Luck



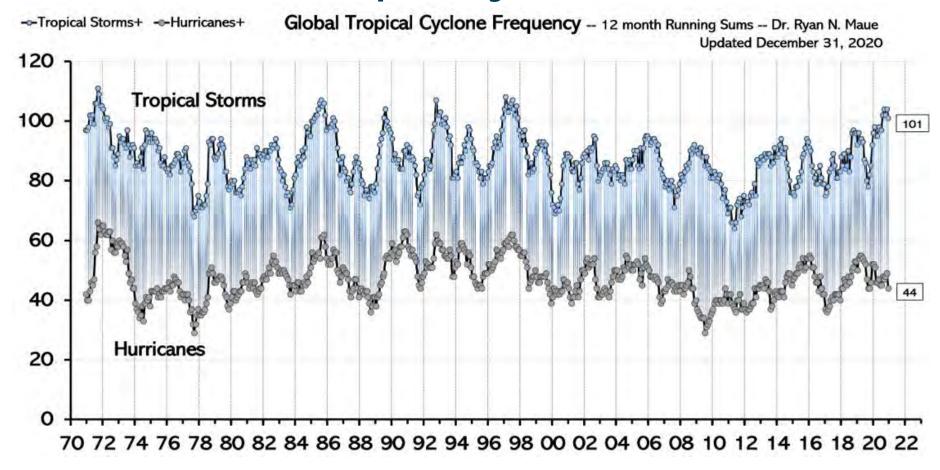


Tornado scar from the Homer, IL tornado on Sep 9th 2016 shows how very close it came to a house. Source: Photo by Jeremy Wolf

Severe weather losses are often a **matter of luck**. The large tornado hitting Nashville in 2020 is a reminder that tornadoes can hit any areas. Hail storms continue to be a costly driver to the insurance industry. Wind also hit farm fields in lowa. **Severe weather has no boundaries** and often it is just a matter of luck.



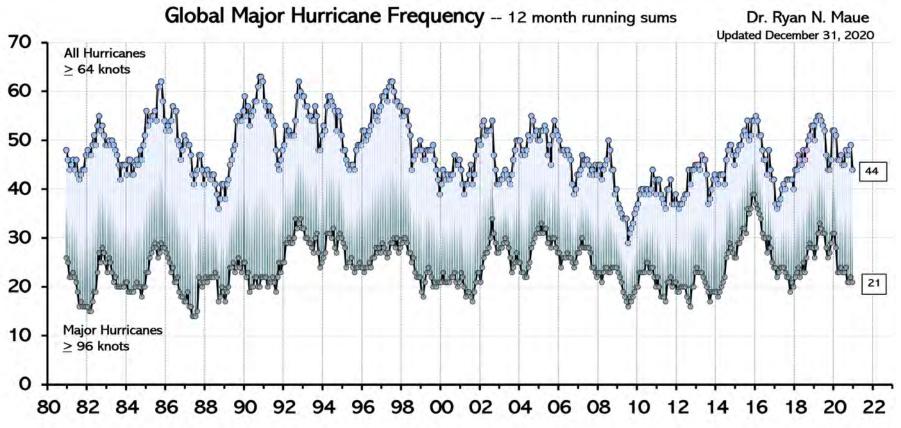
Global Named Storm Frequency



The top time series is the number of named storms that reached tropical storm strength. The bottom time series is the number of global tropical cyclones that reached hurricane strength.

Global Hurricane Frequency

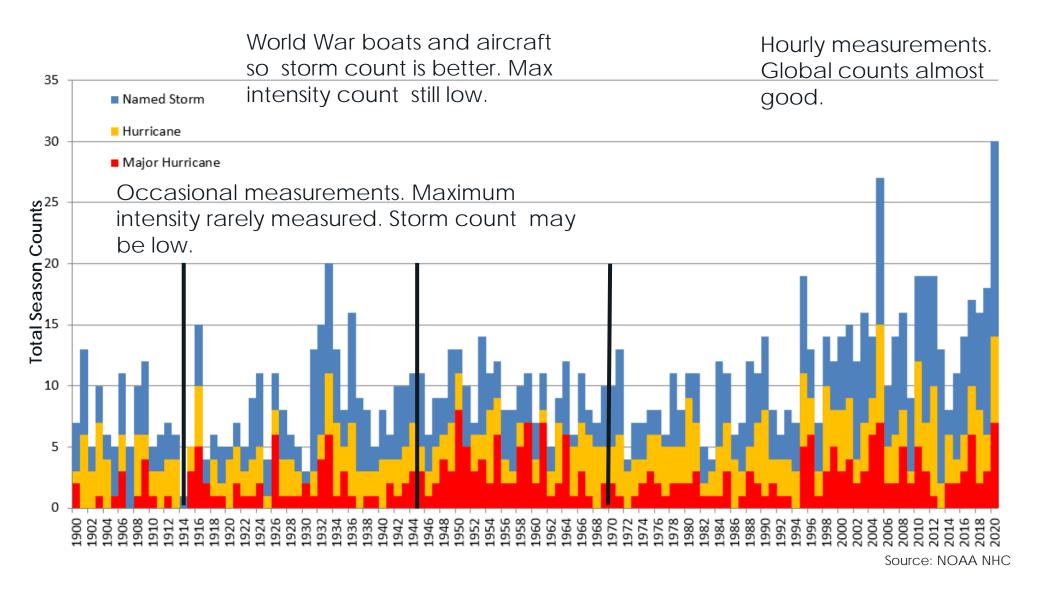




The top time series is the number of global tropical cyclones that reached hurricane strength. The bottom time series is the number of global tropical cyclones that reached major hurricane strength. One thing to notice about hurricanes is the large variability in their occurrence from year-to-year and decade-to-decade.

Atlantic Named Storm Activity





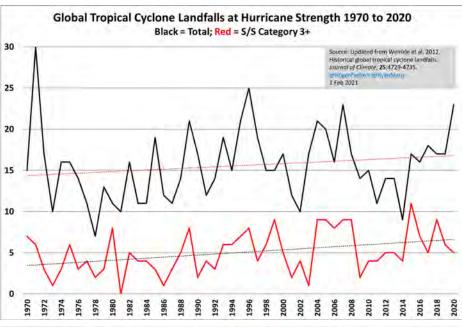
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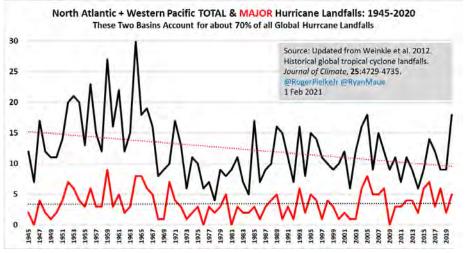


E P I C

23 total landfalls, 2020 saw the most hurricane strikes since 2007, and the third most since 1970.

The large number of 2020 landfalls was in part to the very busy North Atlantic hurricane season, which saw 9 total landfalls.

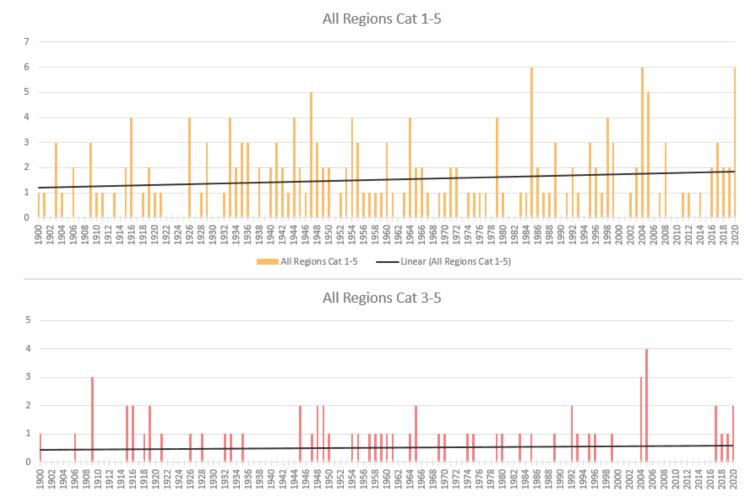




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U.S Landfilling Hurricane Trends

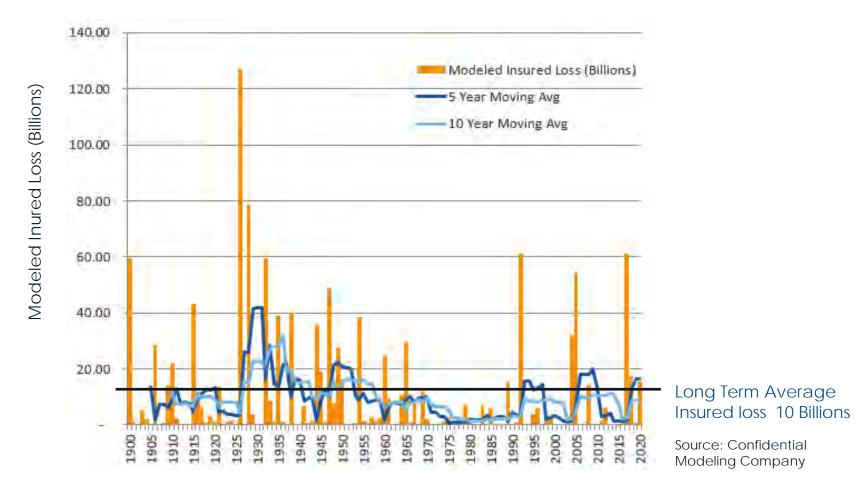




- The North Atlantic averaged 2.5 landfalls per year 1970 to 2019
- Very Little if any trend in landfalling hurricanes. No Trend in Major Hurricane Landfalls

Named Storm Insured Loss Trend





Using modeled losses removes the uncertainty of adjusting historical losses to account for socioeconomic factors.

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Is the Complaining About the Weather Warranted?

Severe Storms

• It depends - Definitely not tornadoes Wind -Yes Hail- Maybe. Loss Yes due to increase in exposure and storms shifting East.

Heavy Rain/Flood Events

• **Depends on region**, generally yes to **more heavy rainfall events**. Poor urban planning = more floods and more loss.

Wildfires

 Yes recently- Humans are causing most of the wildfires and increase in exposure into the WUI = more loss.

Named Storms

• More storms in the basin. Landfalls are what matter and there no longterm trend, lots of activity recently. Storms are however getting stronger when they do form.

Weather Helps Drive the Insurance Market Cycle



- Weather Impacts all business
- Weather can't be used an excuse and insurance is a tool to limit risk
- Understand the trend in weather and exposure
- Weather can have a large influence on insurance market cycles
- The lack of major hurricane landfall between 2006
 2016 likely helped the soft market
- Revision to the mean in hurricane landfalls and other catastrophic losses around the world are increasingly common and devastating when combined with social and economic factors.
 Several years of costly disasters and social factors have compounded losses for insurers, driving up the cost of coverage overall



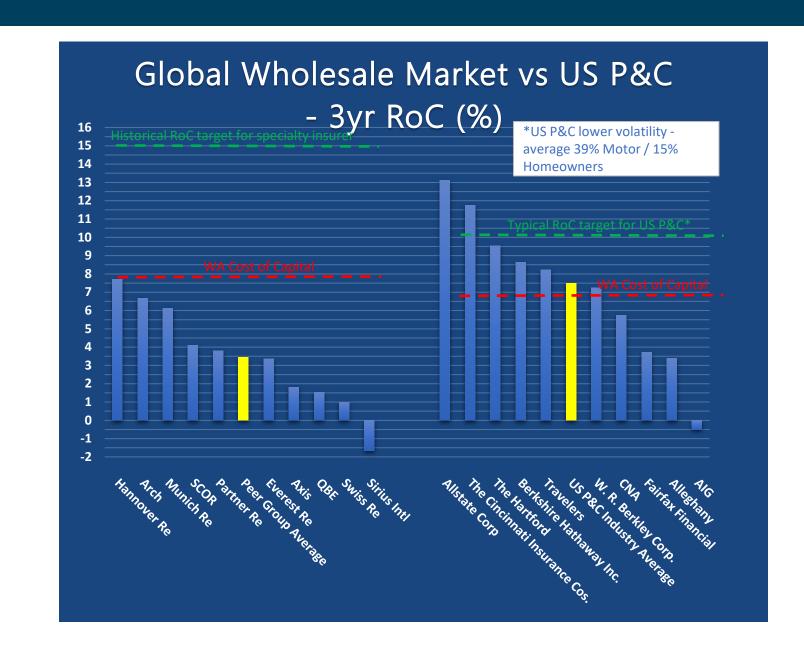


The Global Property Market

HOW WE GOT HERE

15% Benchmark a Distant Memory

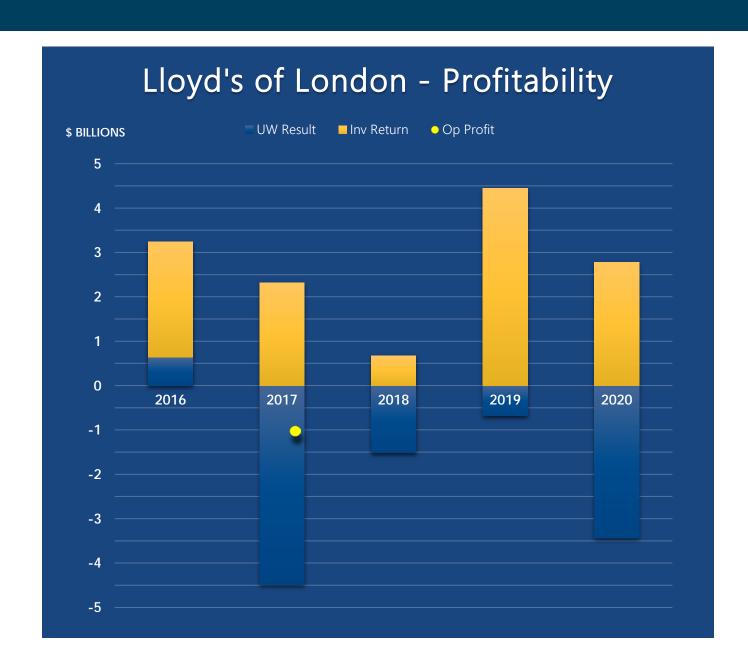
- Weak underwriting results, modest investment returns, and shrinking reserve releases have pushed RoC down into low single figures – well below ~8% average cost of capital
- With interest rates at historical lows and yield hard to come by, response must come from underwriting.
- Exposure change and elevated catastrophe activity - US has experienced record hurricane landfall frequency and a marked rise in "secondary peril" losses (multiple wildfires, severe convective storms)



INSURER PROFITABILITY

Global Insurance Return-driven Hard Market

- Rate uplift due to protracted financial underperformance, not capacity shortage
- Global wholesale underwriting largely in the red since 2016
- Lloyd's and many company market counterparts posted outright losses in 3 of the last 4 years
- 2019 profits entirely investment-based (December '18 sell-off followed by tech boom and accommodative Fed drove ~30% growth in equity markets, and investment grade bonds returned ~14%)

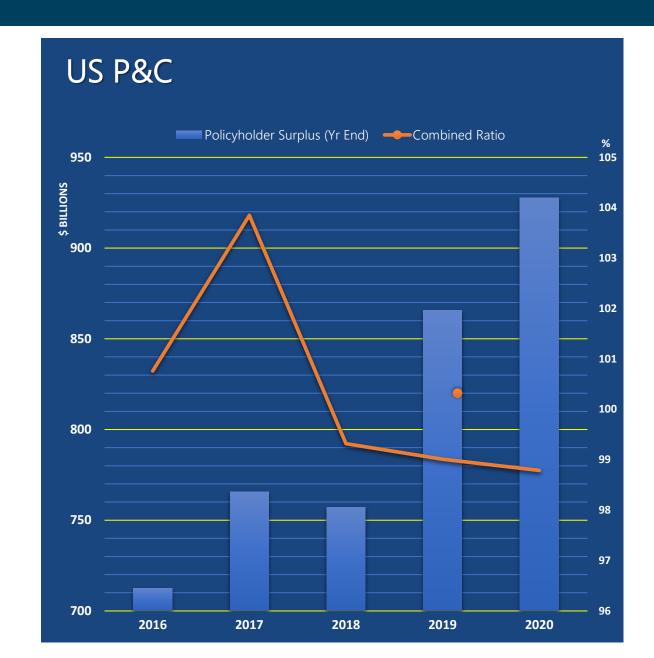


WHAT WE ARE SEEING NOW

Signs of Moderation

but Challenges Persist

- FY2020 global wholesale loss ratios generally well over 100%, and secondary peril concerns firmly substantiated by Winter Storm Uri in 1Q 2021
- Nonetheless, normalized (ex-COVID) combined ratios fell by around 5% YoY during 2020 and largely remained below 100% in 1Q2021 despite Uri
- Rate increases moderated across multiple lines up to 1st April, particularly E&S property (renewed interest from domestic carriers and aggressive budgets in London)



GOING FORWARD

Capacity

- Capacity Stabilization: Many carriers cut back in the last 2 years to levels they should sustain
- Continued new capacity entering market Alcor, Convex, Core Specialty, Fidelis, Ki, Inigo, Rokstone

Coverage and Terms & Conditions

- Deductibles Wind, Flood and Wildfire perils will continue to see upward pressure
- Restrictions in First Party Cyber, Contingent Time Element, Convective Wind, Communicable Disease Coverage, Civil Commotion

Pricing

- Insureds are coming around for their 2nd or 3rd renewal what happened last year?
- Some underwriters are hinting that they have achieved a "balanced book"
- Insurers are competing for market share and need to grow
- Rate expectations: Rate increases that accelerated throughout 2020 have moderated in Q1 and Q2 2021

HOW TO OPTIMIZE YOUR RENEWAL



Get your S*^@ together!

Hire a 3rd party loss control firm to do inspections well in advance

Get to work on your values – figure out pandemic influenced Business Interruption



Start the marketing process early

Socialize your risk with underwriters

Underwriter submission count is up 400%

Things take more time now



Be Technical

Models rule the day – know how to maximize their use

Address loss control recommendations

Challenge the Market

Deconstruct your program

New Structures

Alternative Retentions



Differentiate your Risk

Make yours the one they pull from the pile

Target a select group of markets vs a shot gun approach

Experienced Brokers doing old fashioned Broking!

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QUESTIONS?



Thank You

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