



Welcome to the 2017 Property Insights Conference!





Welcoming Remarks

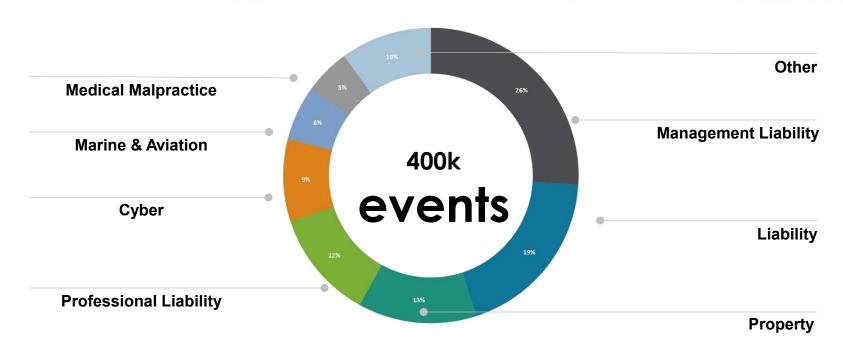


Jeffrey Cohen
EVP & Global Business Development
Advisen





Loss Data Overview







Thank you to our Advisory Board

Brenda (Ballard) Austenfeld, RT Specialty
Laureen Coyne, Westfield World Trade Center [2017 Conference Co-Chair]

Duncan Ellis, Marsh

Lou Frascotti, AIG

Richard Friedl, Liberty Mutual

Richard Miller, Aon

Richard Montminy, Zurich

Shari Natovitz, Silverstein Properties

Peter Pettinicchio, FM Global

Michele Sansone, XL Catlin [2017 Conference Co-Chair]



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2017 Conference Co-Chairs



Laureen Coyne
Manager Risk Management
Westfield World Trade Center



Michele Sansone
President of Property and Engineering
XL Catlin





Morning Keynote Address



Michael Millette

Managing Partner

Hudson Structured Capital

Management









Richard Miller

Managing Director,
U.S. Property Practice Leader

Aon

Moderator







- **Richard Miller,** Managing Director, U.S. Property Practice Leader, Aon (Moderator)
- Mayra Berlanga, Associate Risk Manager, Marsh & McLennan Companies
- **Shari Natovitz**, SVP & Director of Risk Management, Silverstein Properties
- **Steve Truono**, Executive Director, Global Risk & Insurance Management, Avon Products, Inc.







Richard Miller Aon



Mayra Berlanga Marsh & McLennan Companies



Shari Natovitz Silverstein Properties



Steve Truono Avon Products, Inc.





Morning Break

Coming up next...

Terrorism: How to Integrate into Programs



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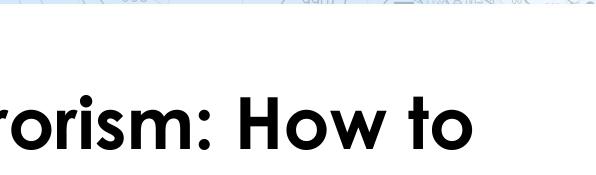












Terrorism: How to Integrate into Programs





Terrorism: How to Integrate into Programs



Tarique Nageer Senior Vice President Marsh



Ben Tucker

Head of US Terrorism & Political Violence,
Crisis Management
XL Catlin

Evolving risk dynamics

- Frequency/Severity of events is evolving
- Increased probability of:
 - Smaller scale attacks high human impact Under/Uninsured Time Element
 - Increased reaction by Federal/State/Local law enforcement to threats
 - Increase in "copycat" events or modified mode
 - Increased potential for Chemical Biological Radiological Nuclear (CBRN) - ISIL "Blowback" and Middle East/European weakening borders
 - First party Cyber





Terrorism – traditional view



97

Terrorism – A CAT cover mentality

- Location
- Occupancy/Type of Business
- Coverage
- Terrorism targets within a blast zone based on Insured location
- Account level target analysis based on pre-identified Terrorism targets



Account Summary	
Account Name	Total Risks

Terrorism Target Summary

National Hospitality

Attack Type	Radius (meters)	# Risks Affected
Bomb - 2 Ton	1,600	38
Bomb - 5 or 10 Ton	1,900	42
Aircraft Impact (Low Rise) Aircraft Impact (Mid Rise)	538	22
	760	29
Aircraft Impact (High Rise)	1,054	32
Aircraft Impact (Skyscraper)	1,500	37
Dirty Bomb - Small	2,500	50

R

International Terrorism & Political Violence



- US Companies with global exposures:
 - Direct and contingent exposures
 - Terrorism is limited peril Political Violence a broader solution
 - Property programs typically exclude check your policy
- Political Violence
 - Perils War Revolution Coup D'Etat Insurrection
 - Address country level events
 - Direct and contingent cover
- Global exposures Terror/PV Perils coverage gaps/options
 - Standalone Global Terrorism and Political Violence
 - Property Program Extended perils Incl Terrorism/Political Violence
 - XL Catlin Platinum Property Option for International Terrorism and Political Violence









Data and Analytics: Practical Implications for Buyers



Aaron Davis

Managing Director – Business Development,

National Sales Leader

Aon



Katherine KlosowskiVice President, Manager – Special Projects
FM Global





Data and Analytics:
Practical Implications for Buyers
Katherine Klosowski
Vice President and Manager – Special Projects
FM Global

Property



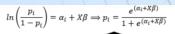


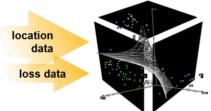




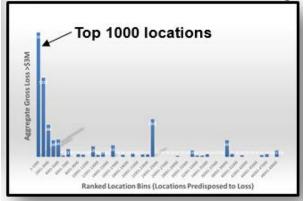




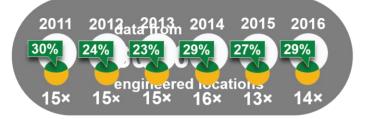




Multinomial Ordinal Regression Model



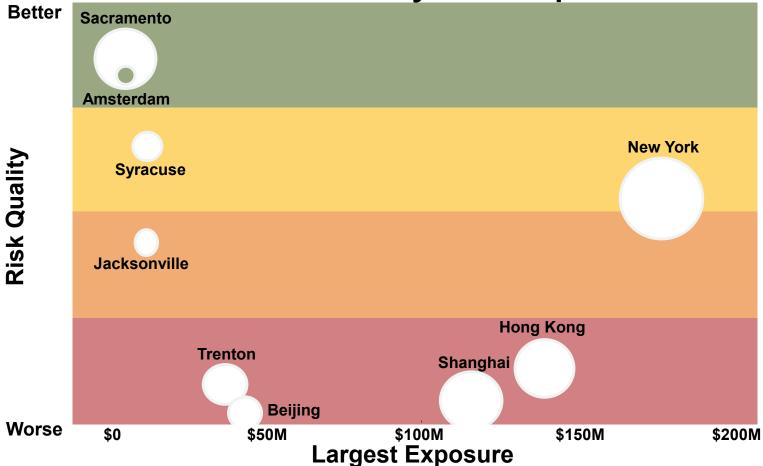
Recurrementation Type	Initiating Biguipment Human observer ELLIFEST		Equipment Human statement EL OPTRHS		Equipment Haran element ELSTUDY		Buspend Farancierest INFRAPED of	
Necommendation Hazard Group								
Secure resident Ebernel Type								
Recommendation Code								
DDE Caragory	Mil	M2	IR1	MG	MI	M2	MI	MS
Armst.	1.198		E 0000E	0.0000	0.300	0.061	3.203	3,0254
Armsevent Palks	1000		E 0000E		0.000	0.000	9.8003	1100
Apartments & Divellings	1.032		€ 0003	1,0000	03/62	1,0000	9.8205	0.654
Audionium	1.05/3	10000	0.0000		0.0070	0.1825	93444	3,810
Arx Mg	10/65	11000	E 07880	0.0000	0364	0.0400	9897	100
Cement Plants	8,6517	1 0000	€ 0066	0.2580	03041	0.0604	0.8545	0.0000
Charrical	1.0350	K-9000	6.09/2	01303	0,0000	0.005	0.8501	9,6112
Electrical Equipment	1.104	10000	E 0002	0.0987	0.301	0.3758	1102	0.0111



Percentage of losses >\$3M captured within the top 1,000 locations

	Human Element Programs	Sprinklers	Safety Devices	Cyber	Natural Hazard Protection	Risk Quality Benchmark
Beijing						
New York						
Trenton						
Shanghai						
Jacksonville						
Hong Kong						
Amsterdam						
Sacramento						
Syracuse						

Risk Quality Heat Map







Predictive analytics is taking the guesswork out of risk management.



Advisen – Data & Analytics: Practical Implications for Buyers

Aaron F. Davis - Managing Director - Business Development & National Sales Leader

June 8th, 2017

Prepared by Aon Risk Solutions

Aon Broking | National Property



Aon's data lake

A vast amount of data underpins Aon's risk insights. Captured from permitted Aon internal and external public sources, data is ingested to our data lake – a highly flexible repository that hold large amounts of data in its native format, allowing it to quickly configured for any specified view or query.

Powerful and secure infrastructure, auto scaling to maximize utilization of data

Insights on Buying Metrics on insurance needs Market submission flow trends flow **Data Lake** Based upon Early indicators Market **Appetite** historical behavior of market change trends Broker **Product** Detailed market Semi-annual feedback insights models & insights Survey of brokers

A single, consistent source of **data**



How does data help clients, carriers and brokers?

Helps with:



Analyze buying behaviors of peers by product, limit & deductible

Quantify risk and identify the most appropriate insurer(s) to meet specific priorities

Gain transparency around financial security of insurers & their subsidiaries

Carriers

Better understand their appetite within broker's portfolio

Model changes to see how they may impact their market presence

Execute on this knowledge within the broker book of business (or other distribution sources)

Brokers

Keep informed of recent marketplace developments at a glance Identify potential enhancements to client programs based upon peer results

Indicate pricing trends, positioning broker to negotiate placements







Flood Mapping





Flood Mapping



Louis GritzoResearch Manager
FM Global



Ryan VolkerSVP, Property Placement Leader
Willis Towers Watson

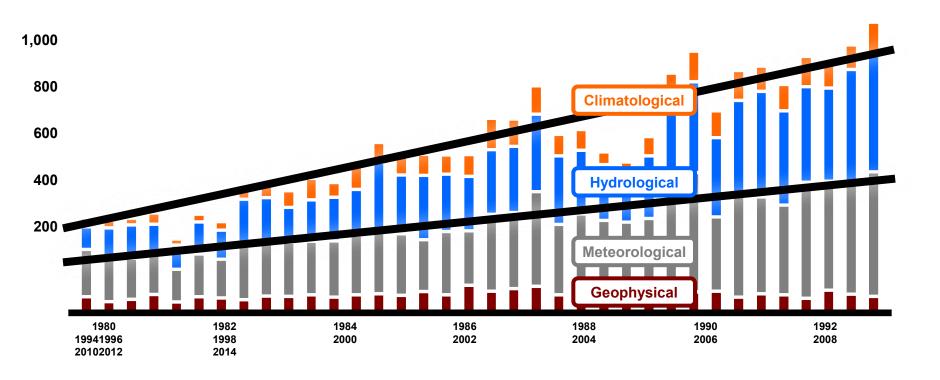




Global Flood Risk

Dr. Louis Gritzo Research, FM Global

World Natural Catastrophe Events 1980-2015



Numbers of People Affected by Weather Related Disasters (1995-2015)

Flood 2.3 billon Drought 1.1 billion Storm 660 million **Extreme Temps 94 million** Landslide/Wildfire 8 million

The majority of natural hazard loss is preventable.

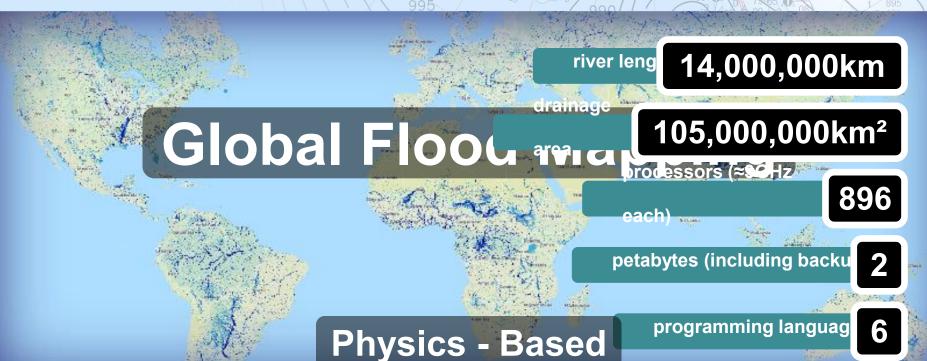




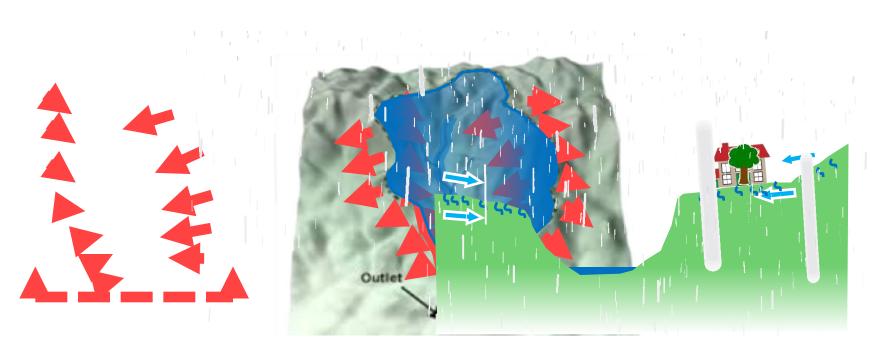




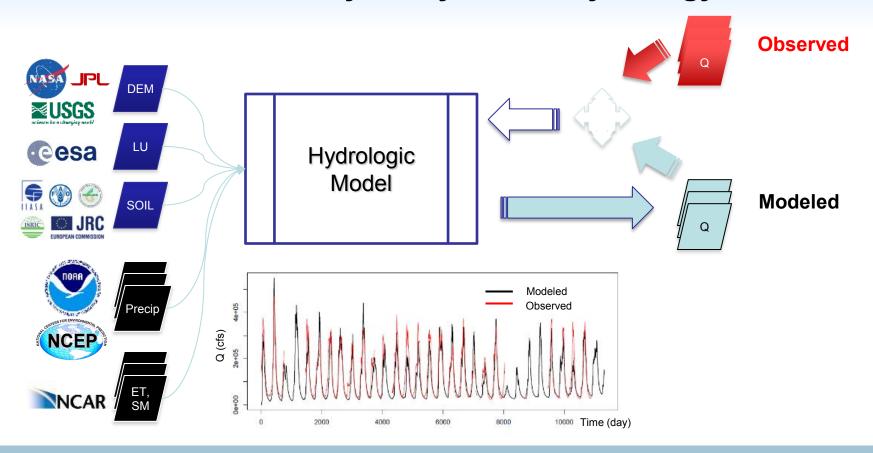




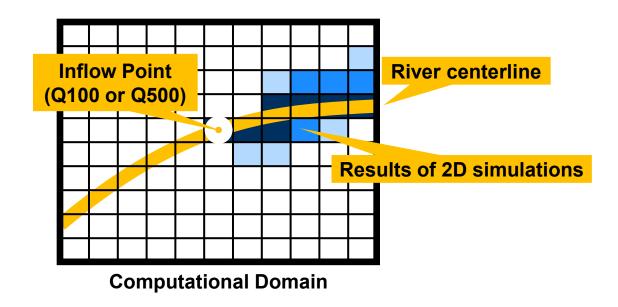
Hydrology



River Flow, Physically-Based Hydrology



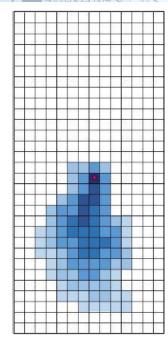
Flood Extent/Depth, 2D Hydraulics



The hydraulic model simulates water propagation within the domain.





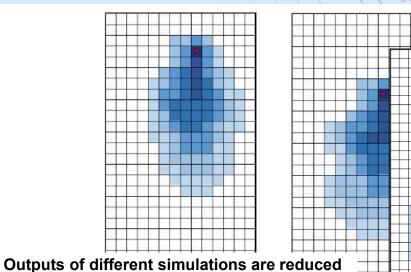


Other simulations are run for different overflow points along the river network in the catchment

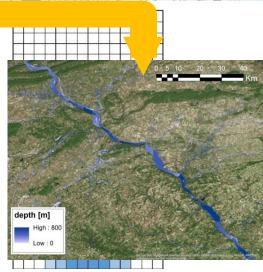


flood depth for every cell.

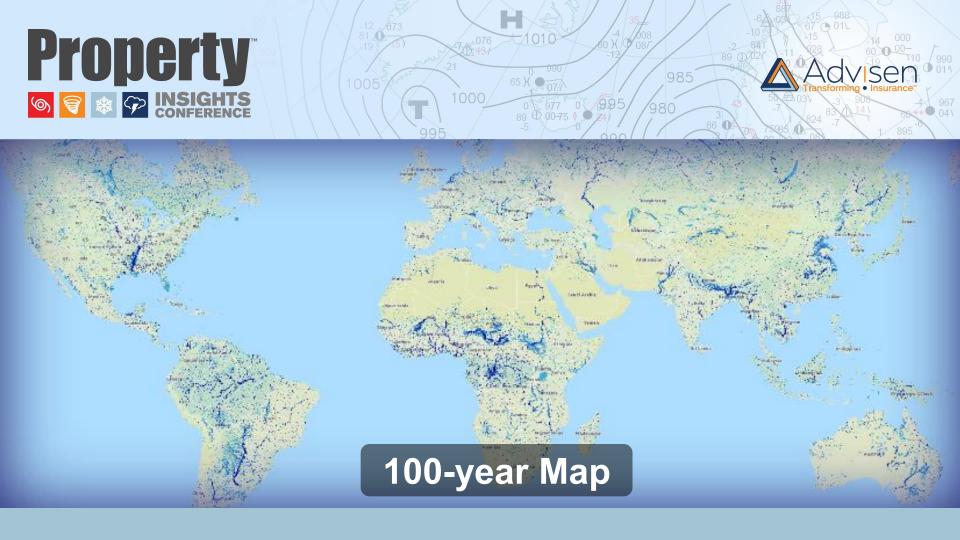




to the same grid, providing the maximum



Repeat for each catchment







Core Team:

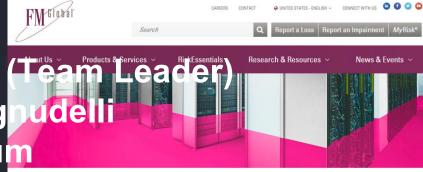
- Dr. Yasir Kaheil (Team Leader)
- Dr. Lorenzo Begnudelli
- Dr. Jeff McCollum
- Dr. Zhao Liu
- Dr. Andreas Muehlbauer
- Dr. Hosam Ali (VP, Nat Haz)





Core Team:

- Dr. Yasir Kaheil
- Dr. Lorenzo Beg www.fmglobal.com/GlobalEleadMaplum
 - Dr. Zhao Liu
 - Dr. Andreas Mue Block II DOD MAP
 - Dr. Hosam Ali (V



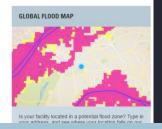
FM Global > Research & Resources > Global Flood Man

A revolution in flood mapping technology

You Riobal Fix 1 N up breaks new ground It's a physical, based map that provides Unlike I. aps bused John, un ...storical fload water, ca. ...nr /ative Global Flood Map is built using hydrology and hydraulic science, and considers, among other factors, essential information like rainfall, evaporation, snowmelt and terrain

Assessing Your Flood Resilience

Flood is one of the most devastating and costly of all natural disasters. There are three primary factors behind the increased frequency and severity of flood loss.









Flood Discussion





From the Eyes of the Broker





Why flood is on everyone's mind?



Source: © 2017 Munich Re, Geo Risks Research, NatCatSERVICE. As of February 2017.





Client/Broker Challenges with Flood

- Continuously changing exposure profile **
- Varying modeling tools to measure the amount of risk present
- ** Lack of expertise to analyze modeling results and provide coverage clarification
- ** International risk identification and coverage certainty lacking
- Lending requirements forcing clients to purchase poor products **
- Policy wording & flood zone definition inconsistencies Wholly or Partially **





Tools of the Trade





NATHAN







Property Sights Conference





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Steps Towards better Flood Awareness

Step 1: Geocoding - Get your raw data as accurate as possible

Street level or parcel for each location is critical

These vary depending on tools used

Determine Zonesey don't matter unless carrier agrees

Focus on distance from HH Zones

Run mapping tools to see where the HH flood

zones are in relation to location

Time to Map - Determines wholly and/or partially & Ingress/Egress

exposures for the location

Step 3:

Step 2:





In an Ideal World.....

- Consistent raw data template to maximize client terms, sublimits and pricing
- Utilization of a uniform modeling system
- Continued clarification of international flood zones & policy definitions
- Improved coverage option for lender driven flood deductible buydowns









Conference Luncheon

Coming up next...

Afternoon Keynote Address by:

Patrick G. Ryan, Ryan Specialty Group



Many thanks to our Sponsors!

































Afternoon Keynote Address



Patrick G. Ryan
Chairman and CEO
Ryan Specialty Group, LLC









Cyber and the Internet of Things

Duncan Ellis
US Property Practice Leader
Marsh
Moderator







Cyber and the Internet of Things

- Duncan Ellis, US Property Practice Leader, Marsh (Moderator)
- Jamie Bouloux, Chief Executive Officer, EmergIn Risk
- John Coletti, Senior Vice President and Chief Underwriting Officer, XL Catlin
- **Erica Davis**, Senior Vice President, Head of Specialty Products E&O, Zurich
- Daniel McElvany, Head of US Broker Property, Swiss Re





Cyber and the Internet of Things



Duncan Ellis Marsh



Jamie Bouloux Emergln Risk



John Coletti XL Catlin



Erica Davis Zurich



Daniel McElvany Swiss Re





Afternoon Break

Coming up next...

Outlook for the 2017 Atlantic Hurricane Season



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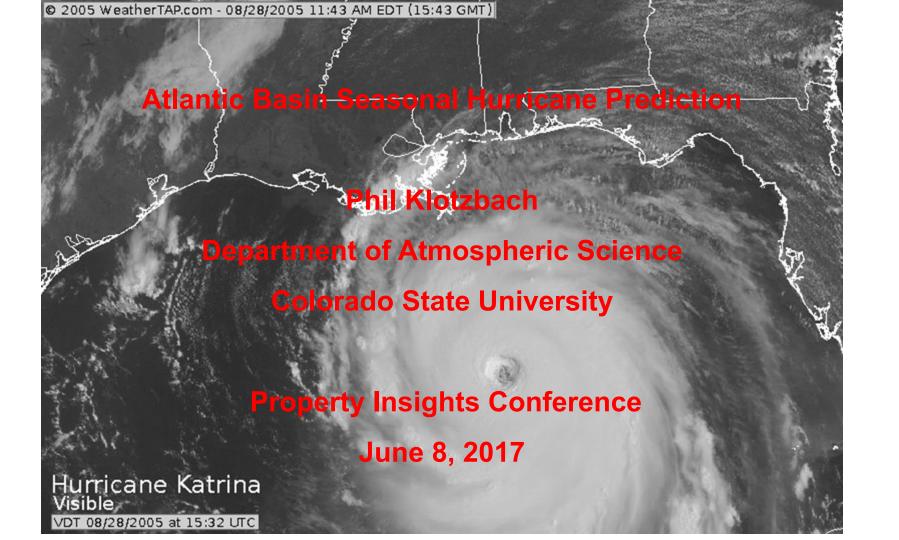




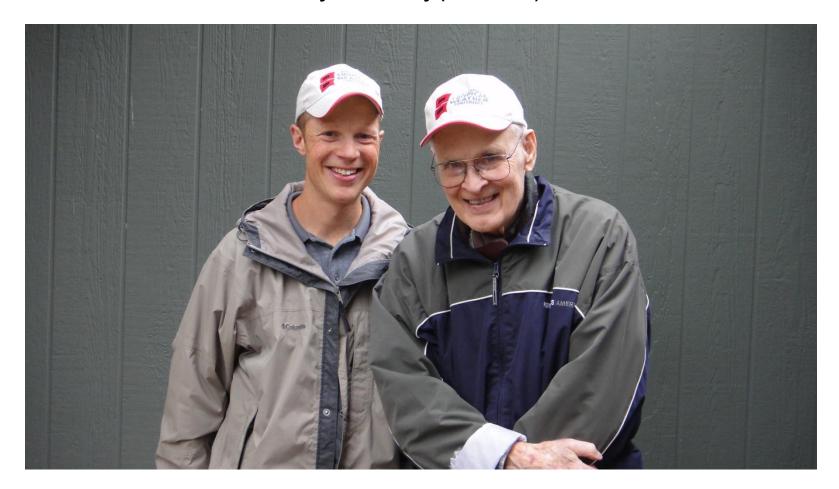
Outlook for the 2017 Atlantic Hurricane Season



Phil Klotzbach
Research Scientist,
Department of Atmospheric Science
Colorado State University



In Memory of Bill Gray (1929-2016)



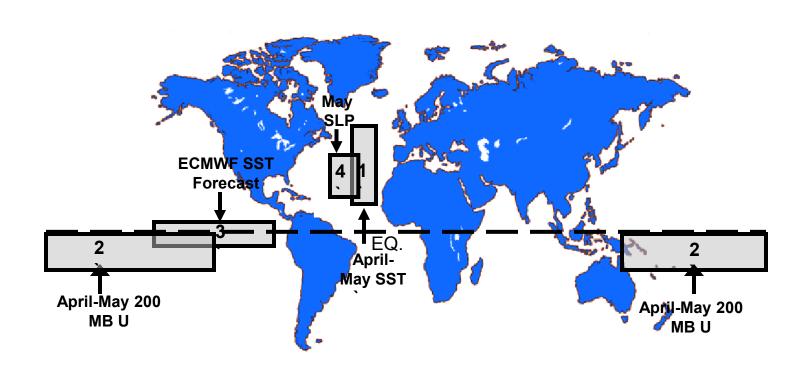
Seasonal Forecasting is more than this!

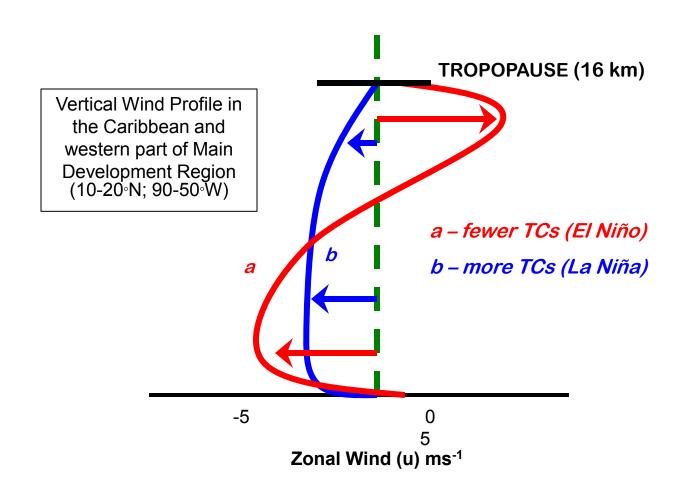


2017 FORECAST AS OF 1 JUNE 2017

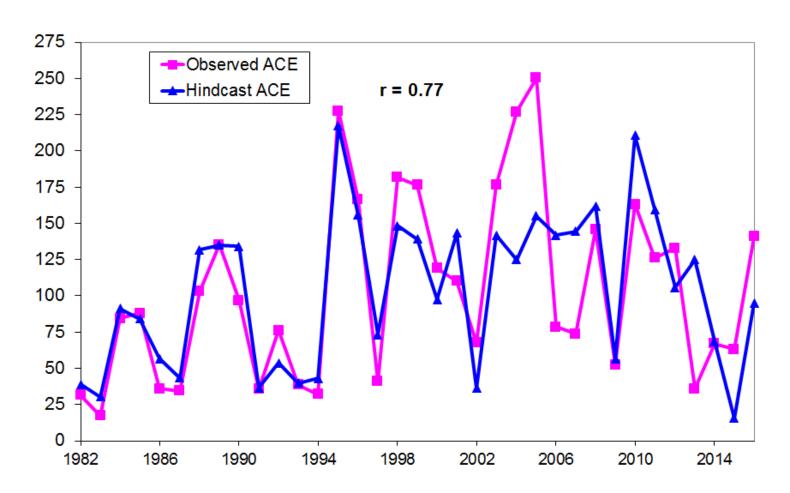
Forecast Parameter	Statistical Forecast	(Including Arlene)	1981-2010 Median
Named Storms (NS)	11.2	14	12.0
Named Storm Days (NSD)	56.5	60	60.1
Hurricanes (H)	6.5	6	6.5
Hurricane Days (HD)	25.9	25	21.3
Major Hurricanes (MH)	2.8	2	2.0
Major Hurricane Days (MHD)	6.8	5	3.9
Accumulated Cyclone Energy (ACE)	108	100	92
Net Tropical Cyclone Activity (NTC)	117	110	103

June Forecast Predictors



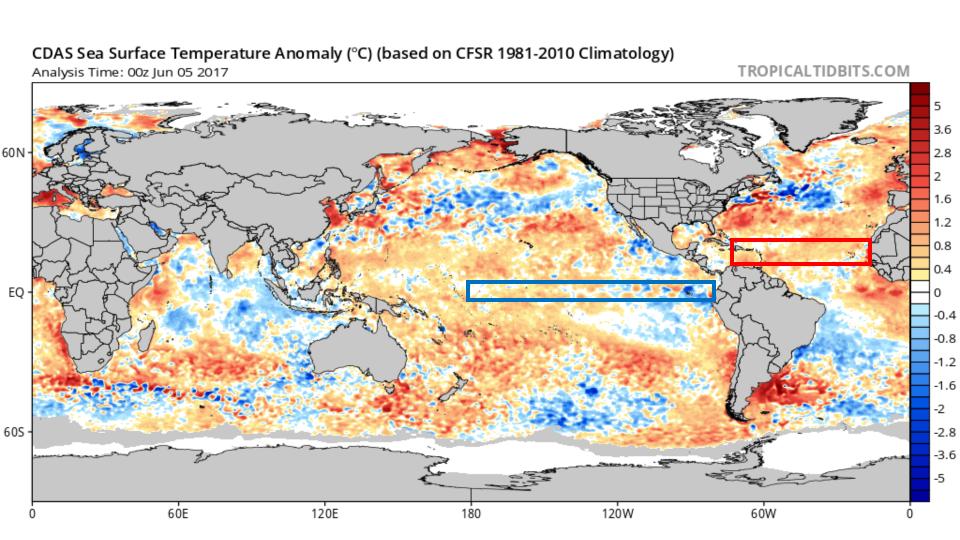


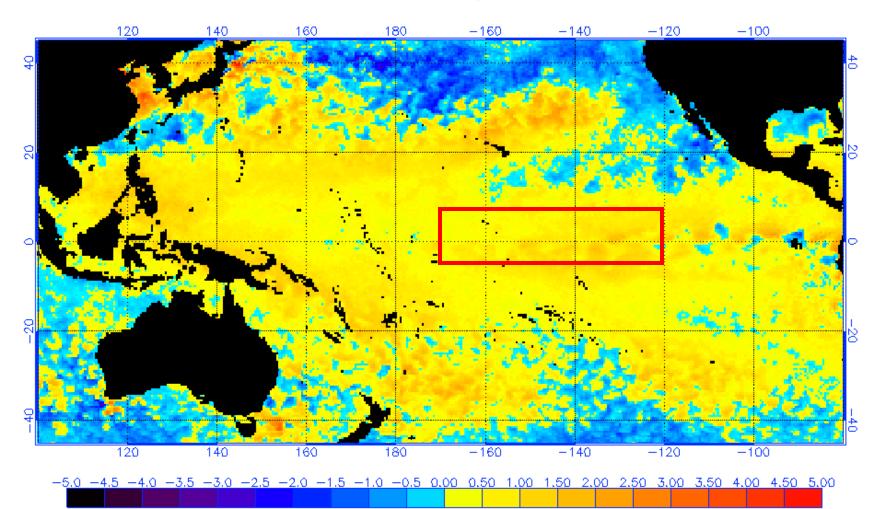
Observed vs. June Model Hindcast ACE



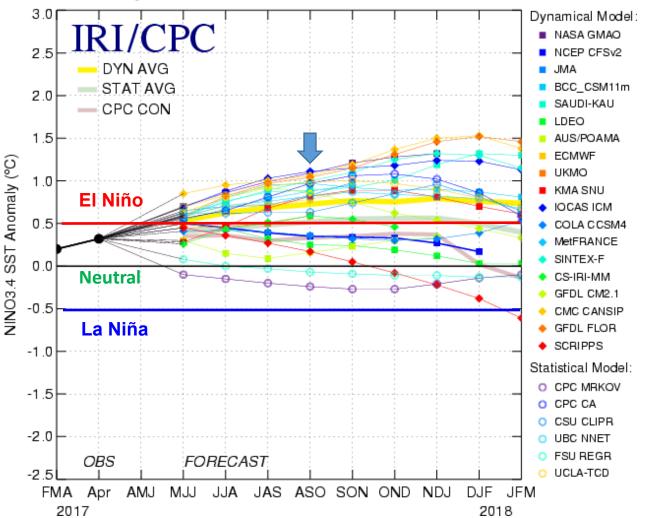
BEST ANALOG YEARS FOR 2017 (JUNE FORECAST)

	NS	NSD	н	HD	МН	MHD	ACE	NTC
1957	8	41.25	3	21.00	2	3.75	79	78
1969	18	92.25	12	40.25	5	6.50	166	182
1979	9	45.75	6	21.75	2	5.75	93	97
2006	10	52.75	5	21.25	2	2.00	79	85
MEAN	11.3	58.0	6.5	26.1	2.8	4.5	104	110
2017 Forecast	14	60	6	25	2	5	100	110

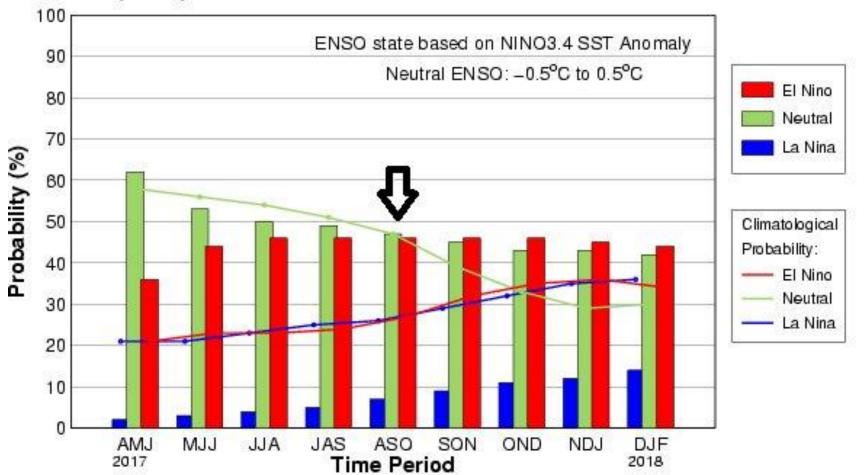




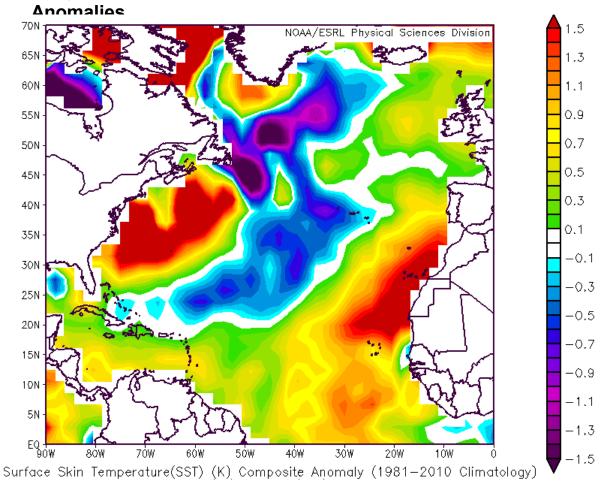
Mid-May 2017 Plume of Model ENSO Predictions



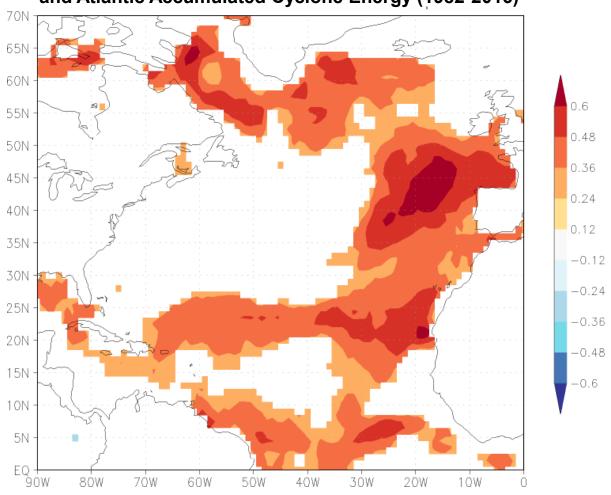
Early-May CPC/IRI Official Probabilistic ENSO Forecast



Early June 2017 Sea Surface Temperature



Correlation between June Sea Surface Temperatures and Atlantic Accumulated Cyclone Energy (1982-2016)



2017 PROBABILITIES FOR AT LEAST ONE MAJOR (CATEGORY 3-4-5) HURRICANE LANDFALL IN EACH OF THE FOLLOWING AREAS (20th CENTURY PROBABILITIES IN PARENTHESES)

- 1) Entire U.S. coastline 55% (52%)
- 2) U.S. East Coast including Peninsula Florida 33% (31%)
- 3) Gulf Coast from the Florida Panhandle westward to Brownsville 32% (30%)
- 4) Caribbean (10-20° N, 60-88° W) 44% (42%)

Landfalling Hurricane Web Application

Currently Available at the following URL:

http://www.e-transit.org/hurricane

In partnership with the GeoGraphics Laboratory – Bridgewater State University, Bridgewater MA

2017 Probabilities (20th Century Probabilities in Parentheses)

State	Hurricane Impact Prob.	MH Impact Prob.
Florida	54% (51%)	22% (21%)
Louisiana	32% (30%)	13% (12%)
Massachusetts	7% (7%)	2% (2%)
Mississippi	11% (11%)	5% (4%)
New York	8% (8%)	3% (3%)
North Carolina	30% (28%)	8% (8%)
Texas	35% (33%)	13% (12%)

2017 Forecast Schedule

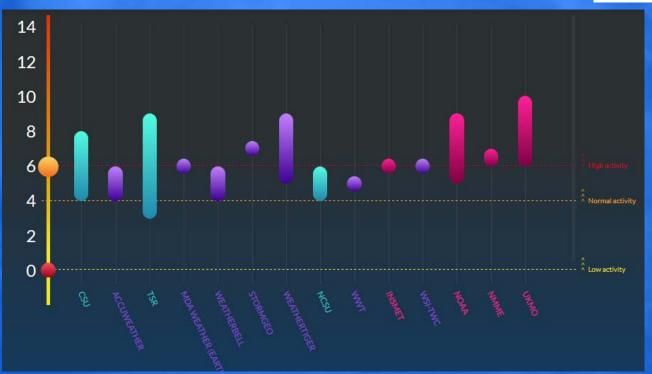
Date	6	1	3	4
	April	June	July	Aug
Seasonal Forecast	X	X	X	X

New Products



Seasonal Hurricane Forecast Compilation Website http://seasonalhurricanepredictions.org





Arago's Admonition:

"Never, no matter what may be the progress of science, will honest scientific men who have regard for their reputations venture to predict the weather."

Contact Info:

Phil Klotzbach

Email: philk@atmos.colostate.edu

Web: http://tropical.colostate.edu

Twitter: @philklotzbach

Facebook: CSU Tropical Meteorology Project





Global Property Market Trends





Global Property Market Trends



Megan E. Lee Managing Principal Integro Insurance Brokers



Michael Nardiello
Senior Vice President – Property Leader
Sompo International





Property Market Trends

- Alternative capital/non-traditional approaches to risk
- Pressure on market fundamentals

- Data and analytics how much is too much?
- Evolution of the Broker/Carrier





A View from the Top: The Underwriter's Perspective





A View from the Top



Gary Marchitello
Head of Property Broking
Willis Towers Watson
Moderator





A View from the Top

- Gary Marchitello, Head of Property Broking, Willis Towers Watson (Moderator)
- Richard Friedl, VP and NE Division Underwriting Manager, Liberty Mutual
- **Erik Nikodem,** Senior Vice President, Head of Property, Everest Insurance
- Bob Quane, Head of Property, Commercial, AIG





A View from the Top



Gary Marchitello Willis Towers Watson



Richard Friedl Liberty Mutual



Erik Nikodem Everest Insurance



Bob Quane AIG







Closing Remarks & Reception









Property Insights Conference



























