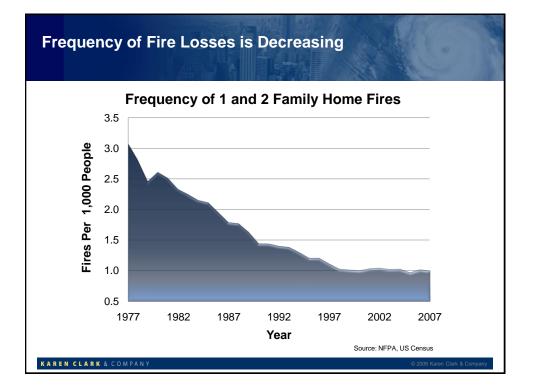
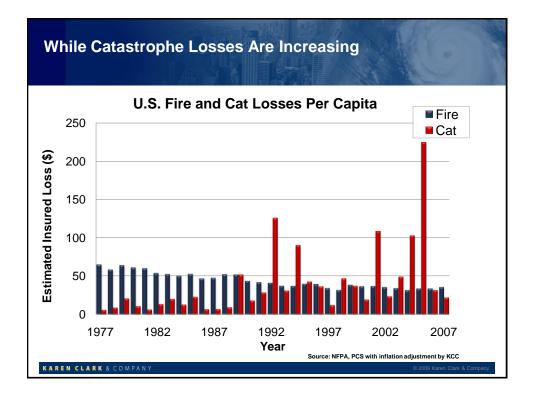


Catastrophe Losses by Year Since 1998

Year	Number of Catastrophes	Number of Claims (millions)	Dollars when Occurred (billions)	In 2007 Dollars (billions)
1998	37	3.6	\$10.1	\$12.8
1999	27	3.2	8.3	10.3
2000	24	1.5	4.6	5.5
2001	20	1.5	26.5	31.0
2002	25	1.8	5.9	6.8
2003	21	2.7	12.9	14.5
2004	22	3.4	27.5	30.2
2005	24	4.4	62.3	66.1
2006	33	2.3	9.2	9.5
2007	23	1.2	6.7	6.7
		Source:	PCS, inflation ac	ljustment by III
O M P A N	Y			





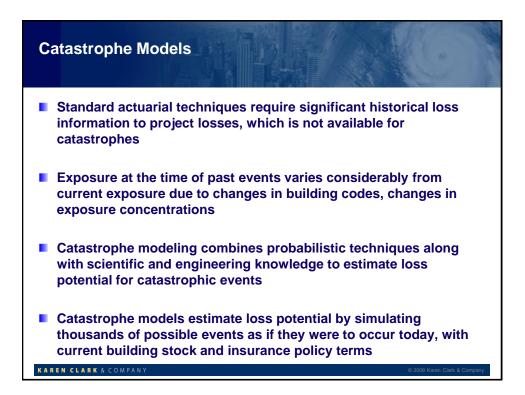
Biggest Driver of Increasing Hurricane Losses is Increases in Numbers, Values and Sizes of Properties in Harm's Way

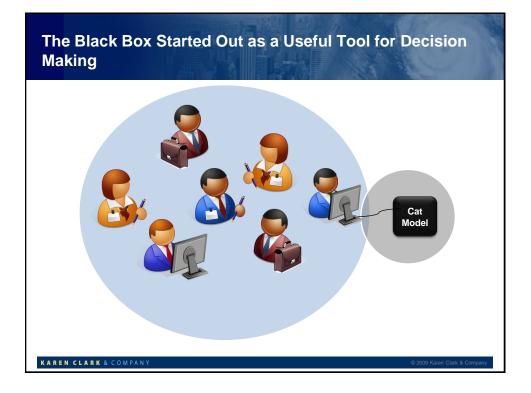


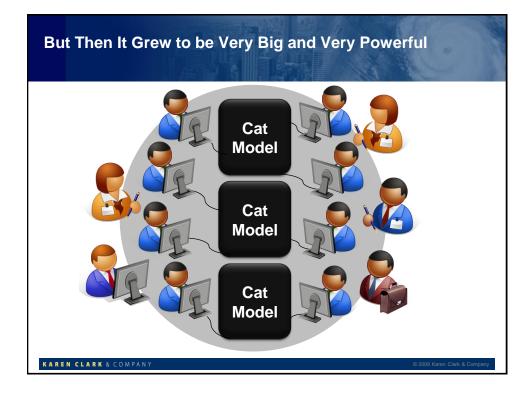


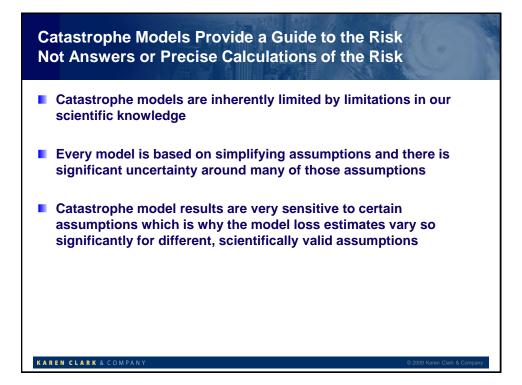
Source: Florida State Archives

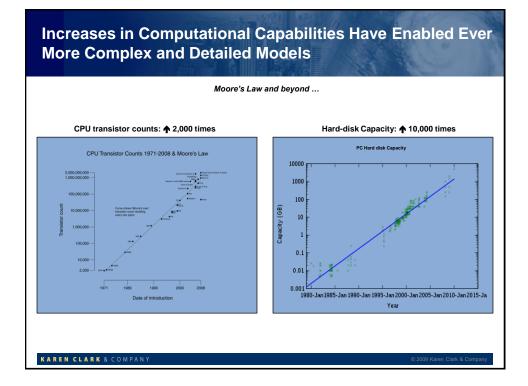
Source: Google Earth

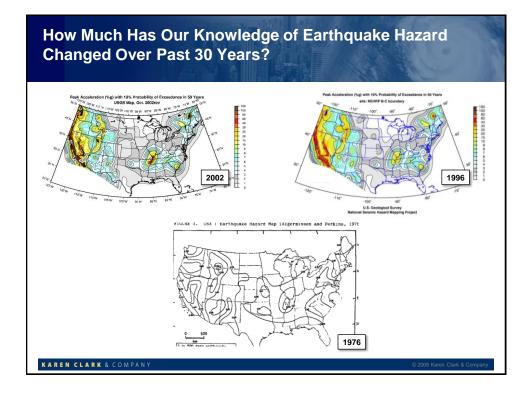


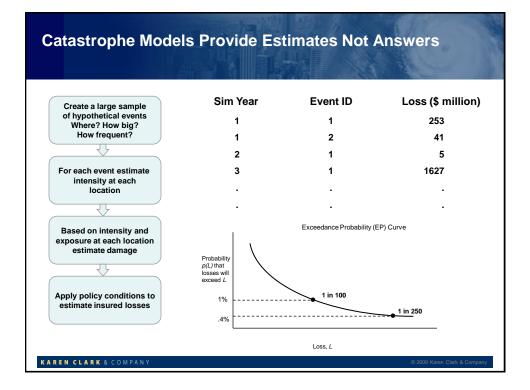


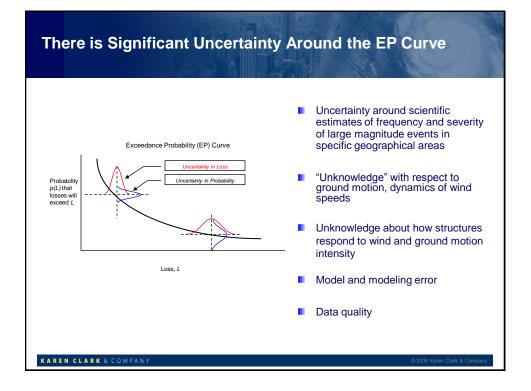


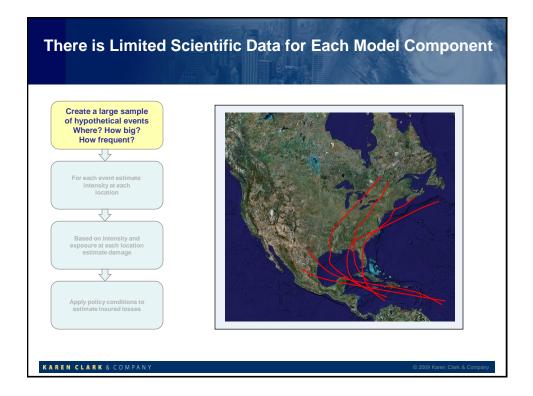


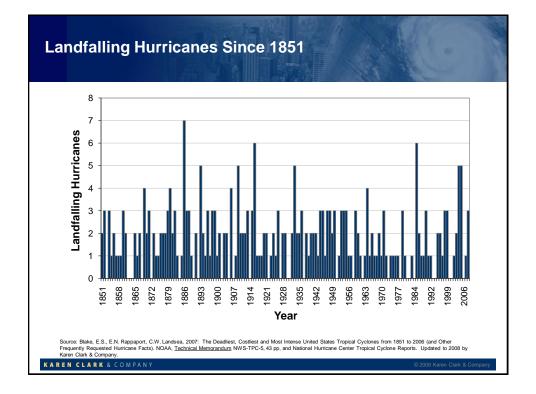


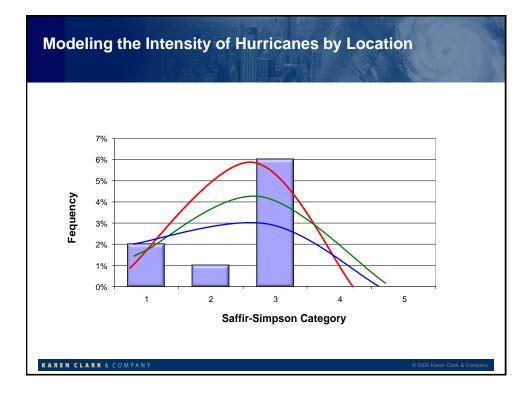


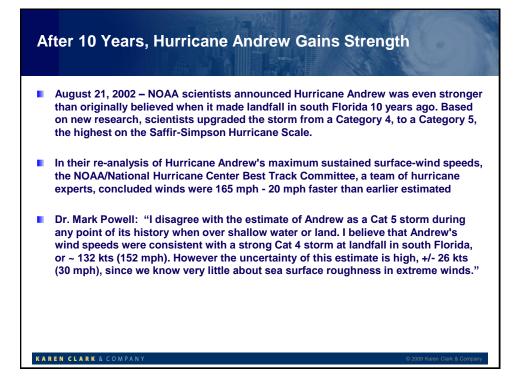


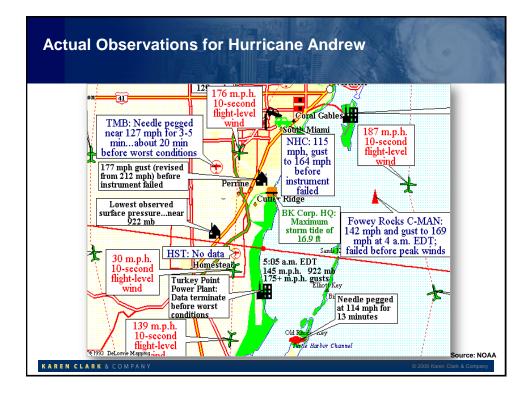


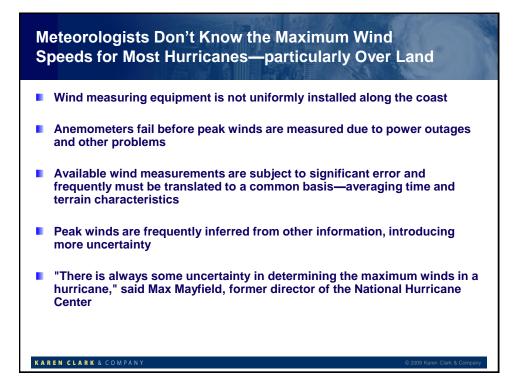




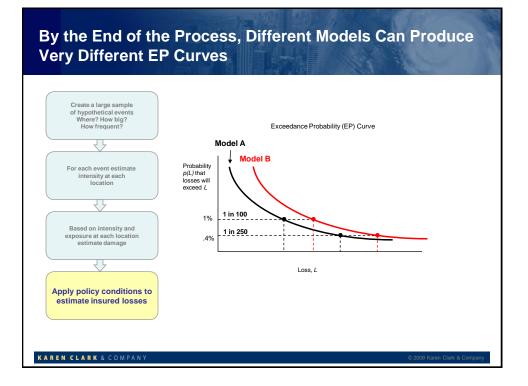




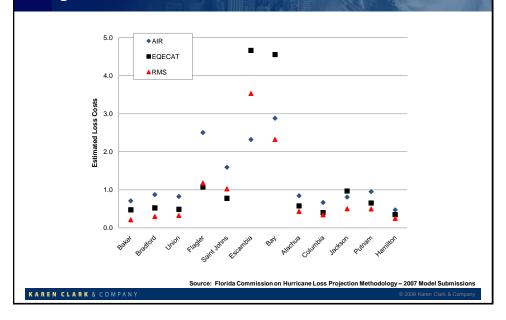




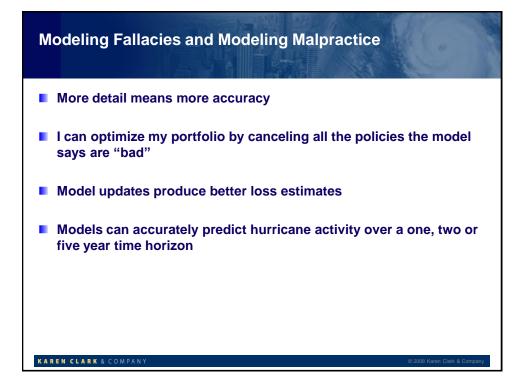
Hurricane	Year	SS Category by Wind Speed	SS Category by Central Pressure	SS Category Reconstructed Wind Field (HRD)
Alicia	1983	3	3	1-2
Andrew	1992	5	4	
Erin	1995	2	2	1
Opal	1995	3	4	2
Fran	1996	3	3	2
Lili	2002	1	3	
Katrina	2005	3	4	
Wilma	2005	3	4	

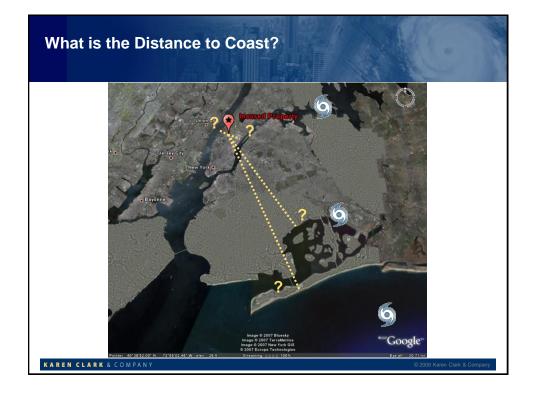


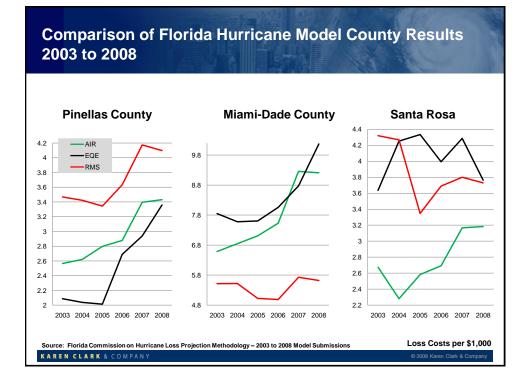
Comparison of 2007 Florida Hurricane Model Results for Long Term Models

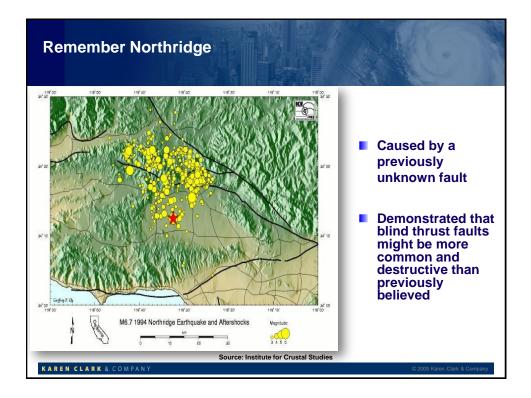


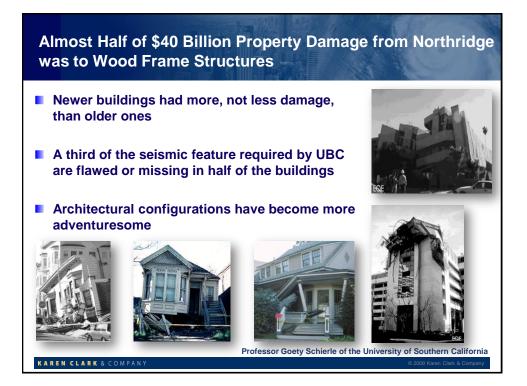
	tastrophe Model I d Ike	Estimates for Hurr	icanes Gustav
	Model Vendor	Gustav Industry Loss Estimate (\$B)	Ike Industry Loss Estimate (\$B)
	AIR	2 – 4.5	8 to 12
	EQE	6 - 10	8 to 18
	RMS	3 - 7	6 to 16
	PCS Estimate	2.1	11.5
estir	e: Model vendors update their insured loss estimat mates as of Dec. 2008 for Gustav and Feb. 2009 fr	es over time. The table above summarizes onshore or lke.	e loss estimates at the time of landfall. PCS



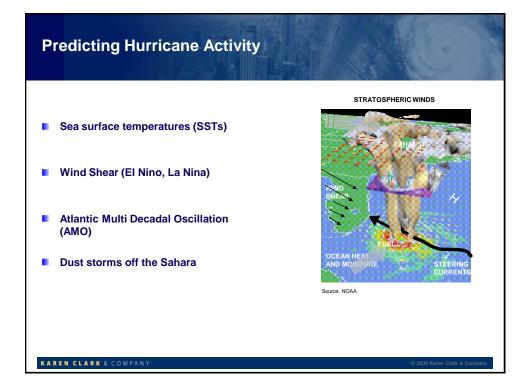








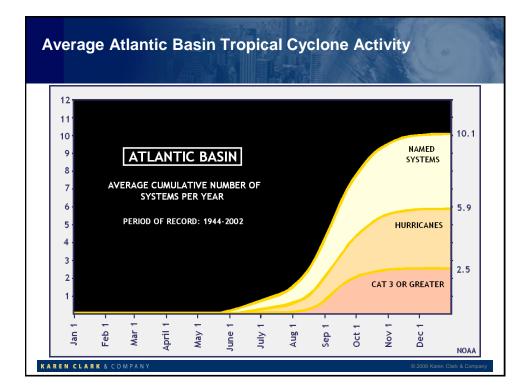




Atlantic Hurricane Predictions 2006

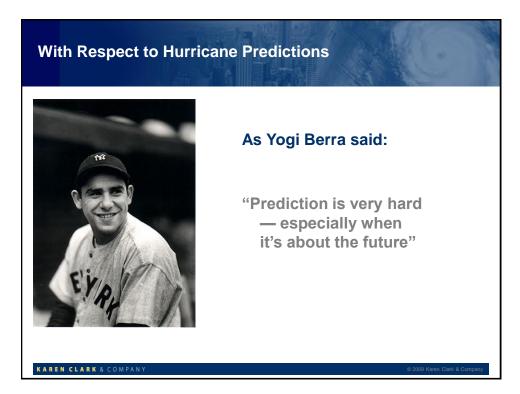
Agency	Forecast Date	Named Storms	Hurricanes	Major Hurricanes
NOAA	May 2006	13 – 16	8 – 10	4 – 6
NOAA	August 2006	12 - 15	7 - 9	3 - 4
CSU	April 2006	17	9	5
CSU	August 2006	15	7	3
TSR	April 2006	15.4	8.2	3.8
TSR	August 2006	15.9	7.9	3.5
Actual		10	5	2

NOAA – National Oceanic and Atmospheric Administration CSU – Colorado State University TSR – Tropical Storm Risk



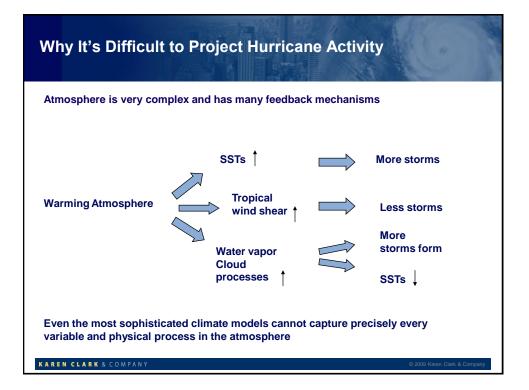
Atlantic Hurricane	Predictions 2007
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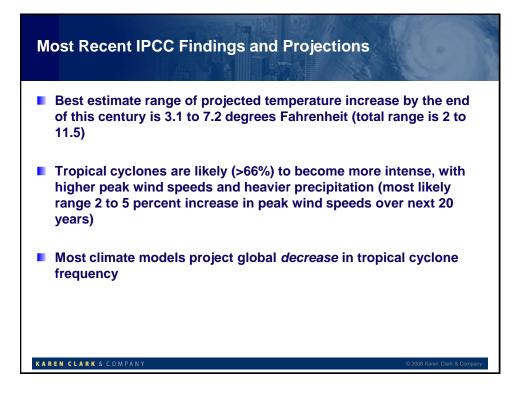
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CSU	April 2007	17	9	5
CSU	August 2007	13	8	4
TSR	April 2007	16.7	9.2	4.2
TSR	August 2007	14.7	7.8	3.5
Actual		15	6	2

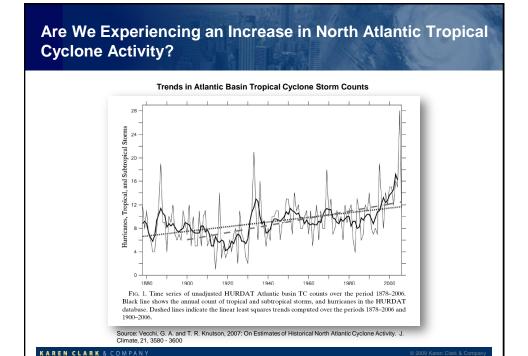


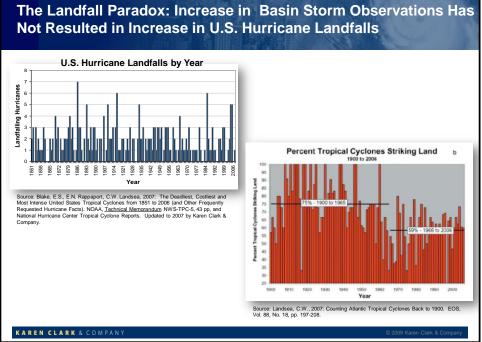
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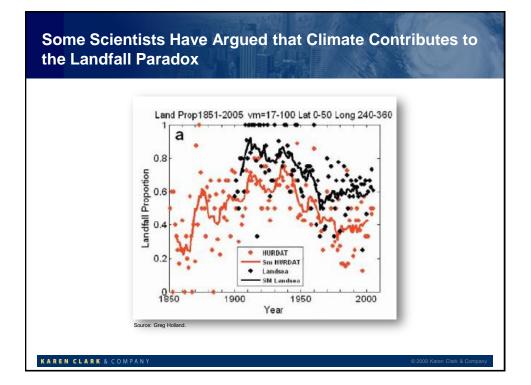
Agency	Forecast Date	Named Storms	Hurricanes	Major Hurricanes
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NOAA	August 2007	14 – 18	7 – 10	3 - 6
CSU	April 2007	15	8	4
CSU	August 2007	17	9	5
TSR	April 2007	14.8	7.8	3.5
TSR	August 2007	18.2	9.7	4.5
As of 1/2009		16	8	5

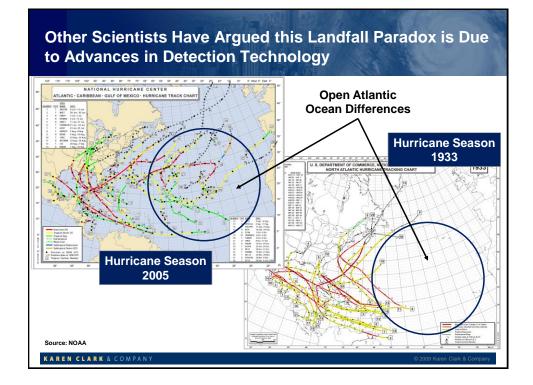












Quotes from Scientific Papers Presented at the Catastrophe Modeling Forum October 2007

- Kerry Emmanuel, MIT: "While there has been some advance in the theory of tropical cyclone intensity, the question of frequency is more vexing ... a good theoretical understanding of the environmental control of storm frequency is lacking."
- Researchers from Georgia Tech: "The challenge to scientists is to assess the future risk in the face of incomplete data, imperfect models, and incomplete understanding."

Estimates of Hurricane Activity from "Near Term" Models

007 5.9 6 6.8 8.0 8.4 008 5.9 8 6.8 8.1 8.4 otal 17.7 19 22.0 24.1 25.2 able 2: Number of U.S. Landfalling Hurricanes U.S. Landfalling Hurricanes	Long-Term Average Actual AIR EQECAT RMS 2006 5.9 5 8.4 8.0 8.4 2007 5.9 6 6.8 8.0 8.4 2008 5.9 8 6.8 8.1 8.4 10 5 7<		20			ΔIR			
006 5.9 5 8.4 8.0 8.4 007 5.9 6 6.8 8.0 8.4 008 5.9 8 6.8 8.1 8.4 otal 17.7 19 22.0 24.1 25.2 able 2: Number of U.S. Landfalling Hurricanes US. Landfalling Hurricanes 2005-2008	2006 5.9 5 8.4 8.0 8.4 2007 5.9 6 6.8 8.0 8.4 2008 5.9 8 6.8 8.1 8.4 2008 5.9 8 6.8 8.1 8.4 2008 5.9 8 6.8 8.1 8.4 2017 5.9 8 6.8 8.1 8.4 2018 5.9 8 6.8 8.1 8.4 5			8.4			Actual	Long-Term Average	
007 5.9 6 6.8 8.0 8.4 008 5.9 8 6.8 8.1 8.4 otal 17.7 19 22.0 24.1 25.2 able 2: Number of U.S. Landfalling Hurricanes Vear Term Predictions	2007 5.9 6 6.8 8.0 8.4 2008 5.9 8 6.8 8.1 8.4 10		15		8.0	8.4	5	5.9	2006
008 5.9 8 6.8 8.1 8.4 otal 17.7 19 22.0 24.1 25.2 able 2: Number of U.S. Landfalling Hurricanes U.S. Landfalling Hurricanes	2008 5.9 8 6.8 8.1 8.4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		10	8.4	8.0	6.8	6	5.9	2007
able 2: Number of U.S. Landfalling Hurricanes Near Term Predictions	Total 17.7 19 22.0 24.1 25.2	R		8.4	8.1	6.8	8	5.9	2008
able 2: Number of U.S. Landfalling Hurricanes Near Term Predictions		AIR	Actu	25.2	24.1	22.0	19	17.7	Total
	7		7						
Long-Term Average Actual AIR EQECAT RMS 6	Long-Term Average Actual AIR EQECAT RMS 6		6	RMS	EQECAT	AIR	Actual	Long-Term Average	
006 1.7 0 2.4 2.3 2.4 s	2006 1.7 0 2.4 2.3 2.4 3					24	0	17	2006
	2007 17 1 20 22 24 4			2.4	2.3	2.4	0	1.7	2000
1.7 1 2.0 2.3 2.4 3	2007 1.7 1 2.0 2.3 2.4		4	2.4 2.4	2.3 2.3	2.4 2.0	1	1.7	2000
008 1.7 3 2.0 2.3 2.4 ²	2008 1.7 3 2.0 2.3 2.4 2 3		4	2.4	2.3	2.0	1	1.7	2007
			4	2.4	2.3	2.0	1	1.7	2007
	2008 1.7 3 2.0 2.3 2.4 2 3		4	2.4	2.3	2.0	1	1.7	2007

Estimates of U.S. Insured Hurricane Losses from "Near Term" Models

			Near	Term Predic	tions	45
	Long-Term Average	Actual	AIR	EQECAT	RMS	35 Long-
2006	10	0	14.0	13.6	14	30
2007	10	0	11.6	13.5	14	20
2008	10	13.3	11.6	13.7	14	10
Total	30	13.3	37.2	40.8	42	Actual Actual O

An Even More Surprising Statistic

The period 1998 to 2007 was an *average* period with respect to catastrophe model average annual loss estimates – even with 2004 and 2005

	Year	# Landfalls	Loss (\$B)*
	1998	3	4.2
	1999	3	2.9
	2000	0	-
	2001	0	-
	2002	1	0.5
4	2003	2	2
	2004	5	25.1
	2005	5	61.9
	2006	0	-
	2007	1	-
	Average	2.0	9.7
	Long-Term Average	1.8	10

* Adjusted to 2007 dollars

KAREN CLARK & COMPANY

Catastrophe Risk Management Does Not Equal Catastrophe Models

- Catastrophe models are only one source of information on potential catastrophe losses and should not be the sole source
- Best practices require intelligent use of models, data and other resources
- Best practices require an a priori view of catastrophe risk, model transparency and credibility, and exposure data quality

Please Direct Questions and Requests for Additional Information to:

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