

Company: Risk Management Solutions, Inc.

Purpose: This spreadsheet includes the Form S-5 losses/loss changes (2017 ROA) produced from North Atlantic Hurricane Models 18.1 (Build 1945) using RiskLink 18.1 and those produced using North Atlantic Hurricane Models 18.1.1 (Build 1945) on RiskLink 18.1.1

Sheets: *There are 2 sets of sheets.*

The first sheet in each set (named **Final2018_X_RL181**) represents the range of changes in loss generated by North Atlantic Hurricane Models 18.1 (Build 1945) using RiskLink 18.1.

The second sheet in each set (named **Final2018_X_RL1811**) represents the range of changes in loss generated by North Atlantic Hurricane Models 18.1.1 (Build 1945) using RiskLink 18.1.1

The third sheet (named **Final2018_X_Delta**) represents the absolute change in change in loss between the two results, calculated as $((\text{Final2018_X_RL18.1.1}] - [\text{Final2018_X_RL18.1}])$

Summary of Form Changes – North Atlantic Hurricane Models 18.1.1 (Build 1945) on RiskLink 18.1.1 – North Atlantic Hurricane Models 18.1 (Build 1945) on RiskLink 18.1

	Max Absolute Diff
Final2018_A_Delta	0.000%
Final2018_B_Delta	0.000%

Modeling Organization:
Model Name & Version Number:
Model Release Date:

RMS
North Atlantic Hurricane Models 18.1 (Build 1945) on RiskLink 18.1
April, 2019

Billion Dollars

2012 FHCF Data (S-5 Part A)

Time Period	Historical Hurricanes	Produced by Model	Ratio Mod / Hist
Current Year	\$2.76	\$3.68	1.34
Previous Year	\$2.79	\$3.78	1.36
Percentage Change Current Year/ Previous Year	-1.06%	-2.64%	
Second Previously Accepted Submission	\$2.96	\$3.84	1.30
Percentage Change Current Year/ Second Previously Accepted Submission	-6.82%	-4.11%	

RL18.1

RL17.0

RL15.0

95% CI	(\$2.5)	\$0.7
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Modeling Organization:
Model Name & Version Number:
Model Release Date:

RMS
North Atlantic Hurricane Models 18.1.1 (Build 1945) on RiskLink 18.1.1
October, 2019

Billion Dollars

2012 FHC Data (S-5 Part A)

Time Period	Historical Hurricanes	Produced by Model	Ratio Mod / Hist
Current Year	\$2.76	\$3.68	1.34
Previous Year	\$2.79	\$3.78	1.36
Percentage Change Current Year/ Previous Year	-1.06%	-2.64%	
Second Previously Accepted Submission	\$2.96	\$3.84	1.30
Percentage Change Current Year/ Second Previously Accepted Submission	-6.82%	-4.11%	
95% CI			
		(\$2.5)	\$0.7

RL18.1.1

RL17.0

RL15.0

Modeling Organization:
Model Name & Version Number:
Model Release Date:

RMS

Billion Dollars

2012 FHCF Data (S-5 Part A)

Time Period	Historical Hurricanes	Produced by Model	Ratio Mod / Hist
Current Year	\$0.00	\$0.00	\$0.00
Previous Year	\$0.00	\$0.00	\$0.00
Percentage Change Current Year/ Previous Year	\$0.00	\$0.00	
Second Previously Accepted Submission	\$0.00	\$0.00	\$0.00
Percentage Change Current Year/ Second Previously Accepted Submission	\$0.00	\$0.00	
95% CI		\$0.0	\$0.0

RL18.1.1

RL17.0

RL15.0

Modeling Organization:
Model Name & Version Number:
Model Release Date:

RMS
North Atlantic Hurricane Models 18.1 (Build 1945) on RiskLink 18.1
April, 2019

Billion Dollars

2017 FHCF Data (S-5 Part B)

Time Period	Historical Hurricanes	Produced by Model	Ratio Mod / Hist
Current Year	\$2.58	\$3.47	1.34
Previous Year	N/A	N/A	N/A
Percentage Change Current Year/ Previous Year	N/A	N/A	N/A
Second Previously Accepted Submission	N/A	N/A	N/A
Percentage Change Current Year/ Second Previously Accepted Submission	N/A	N/A	N/A
95% CI		(\$2.4)	\$0.6

RL18.1

Modeling Organization:
Model Name & Version Number:
Model Release Date:

RMS
North Atlantic Hurricane Models 18.1.1 (Build 1945) on RiskLink 18.1.1
October, 2019

Billion Dollars

2017 FHC Data (S-5 Part B)

Time Period	Historical Hurricanes	Produced by Model	Ratio Mod / Hist
Current Year	\$2.58	\$3.47	1.34
Previous Year	N/A	N/A	N/A
Percentage Change Current Year/ Previous Year	N/A	N/A	N/A
Second Previously Accepted Submission	N/A	N/A	N/A
Percentage Change Current Year/ Second Previously Accepted Submission	N/A	N/A	N/A
95% CI		(\$2.4)	\$0.6

RL18.1.1

Modeling Organization:
Model Name & Version Number:
Model Release Date:

RMS

Billion Dollars

2017 FHCF Data (S-5 Part B)

Time Period	Historical Hurricanes	Produced by Model	Ratio Mod / Hist
Current Year	\$0.00	\$0.00	\$0.00
Previous Year			
Percentage Change Current Year/ Previous Year			
Second Previously Accepted Submission			
Percentage Change Current Year/ Second Previously Accepted Submission			
95% CI		\$0.0	\$0.0