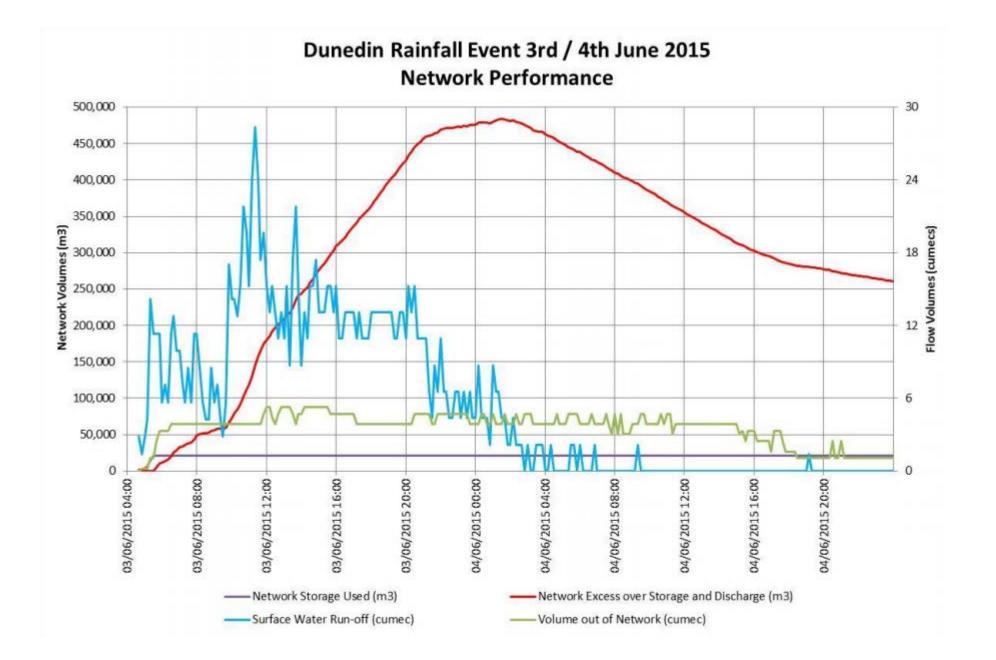


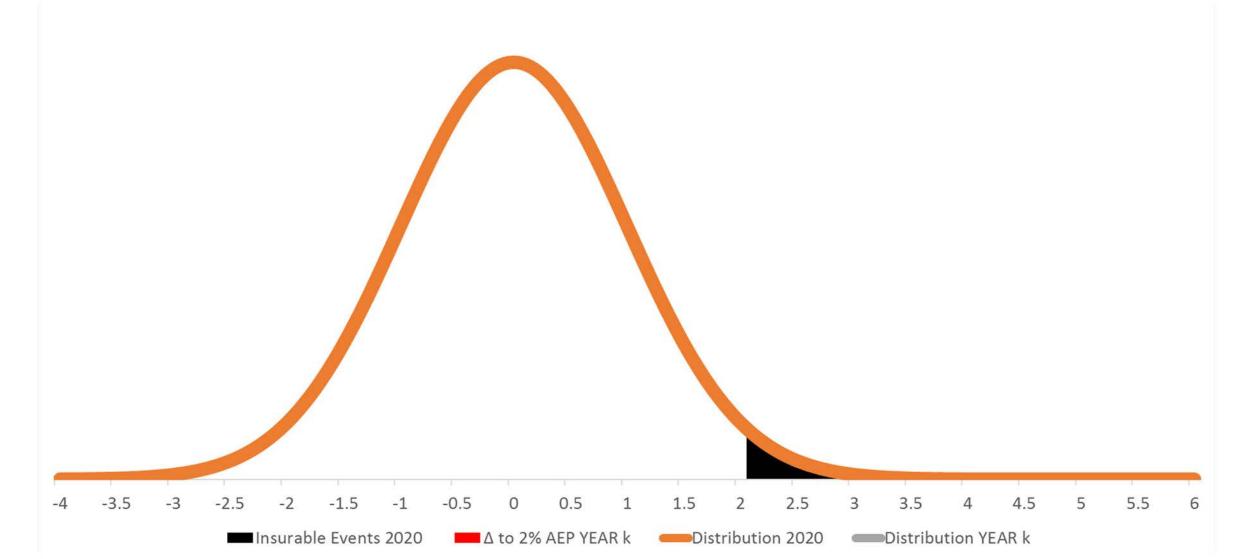
Belinda Storey 20 September 2018





## **Climate Change Is Shifting Distributions**

Temperature, Sea Level, Precipitation, Storm Surge...



## **Insurance Retreat Thresholds**

Annual Exceedance Probability	Recurrence Interval
(A.E.P.)	(R.I.)
1.32%	1 in 75 years
2.00%	1 in 50 years
3.92%	1 in 25 years
4.88%	1 in 20 years

Hurricane Harvey, August 2017 PHOTO: U.S.A. Army

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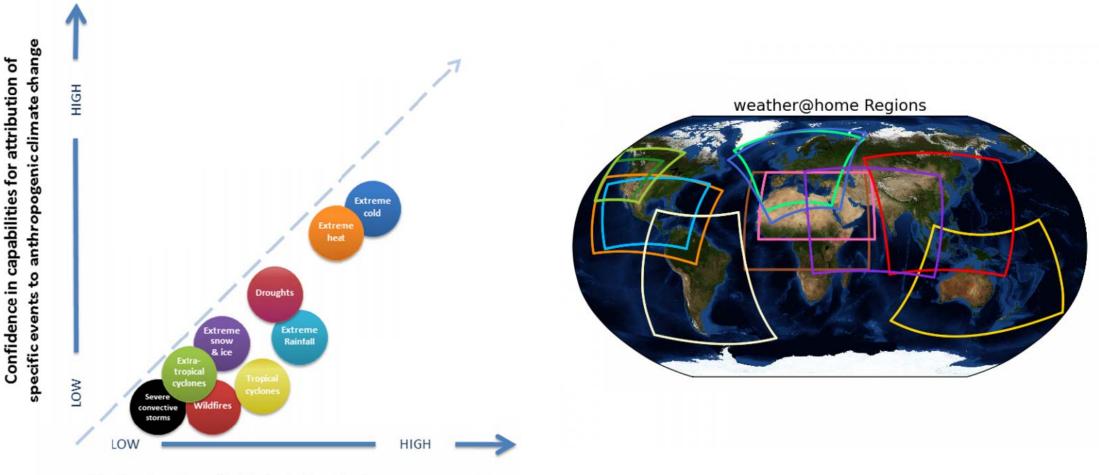
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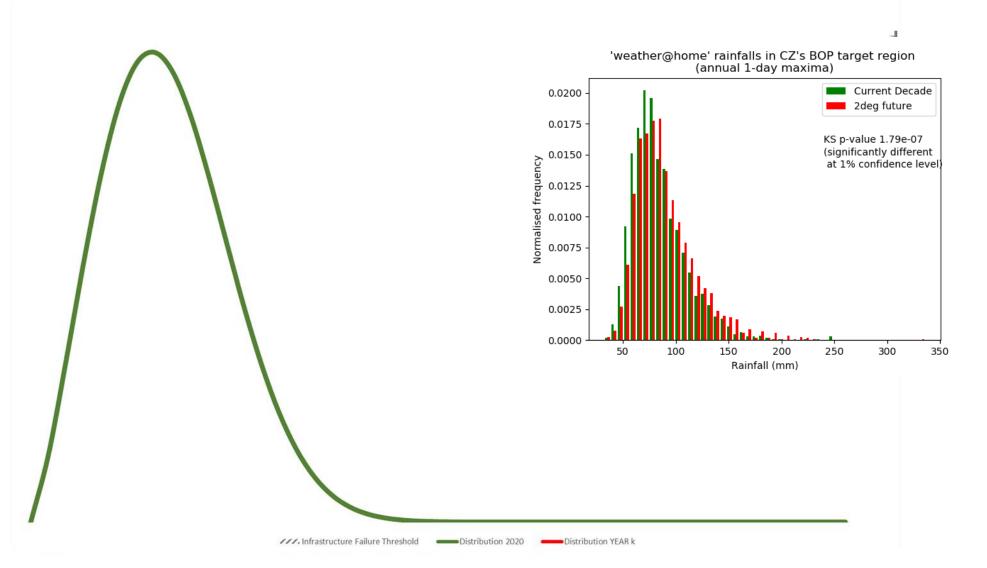
## **Confidence in Modelling of Extremes**



Understanding of effect of climate change on event type

## **Precipitation Distribution: Illustration Only**

Extraordinary Change in Extreme Despite Negligible Change in Mean



Extra-tropical Cyclone Giselle Wahine Tragedy, New Zealand 1968

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