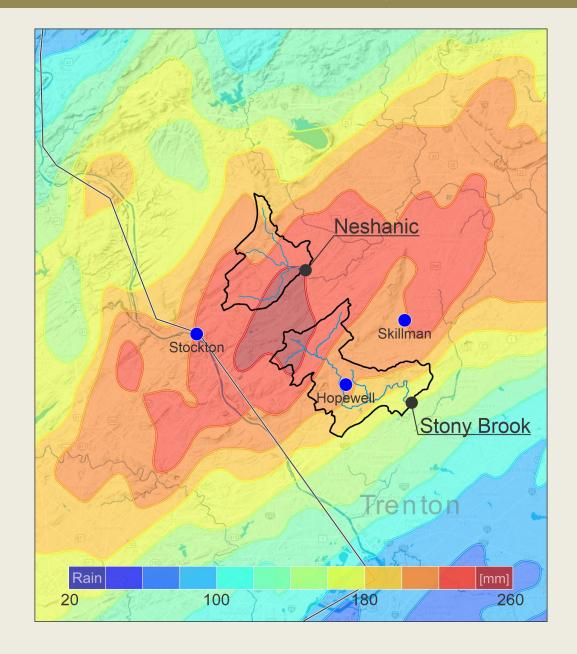
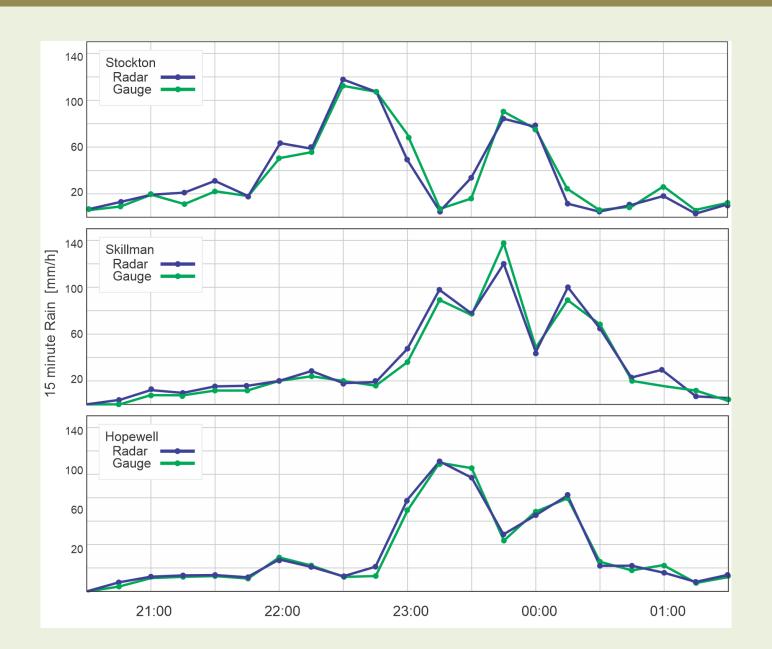


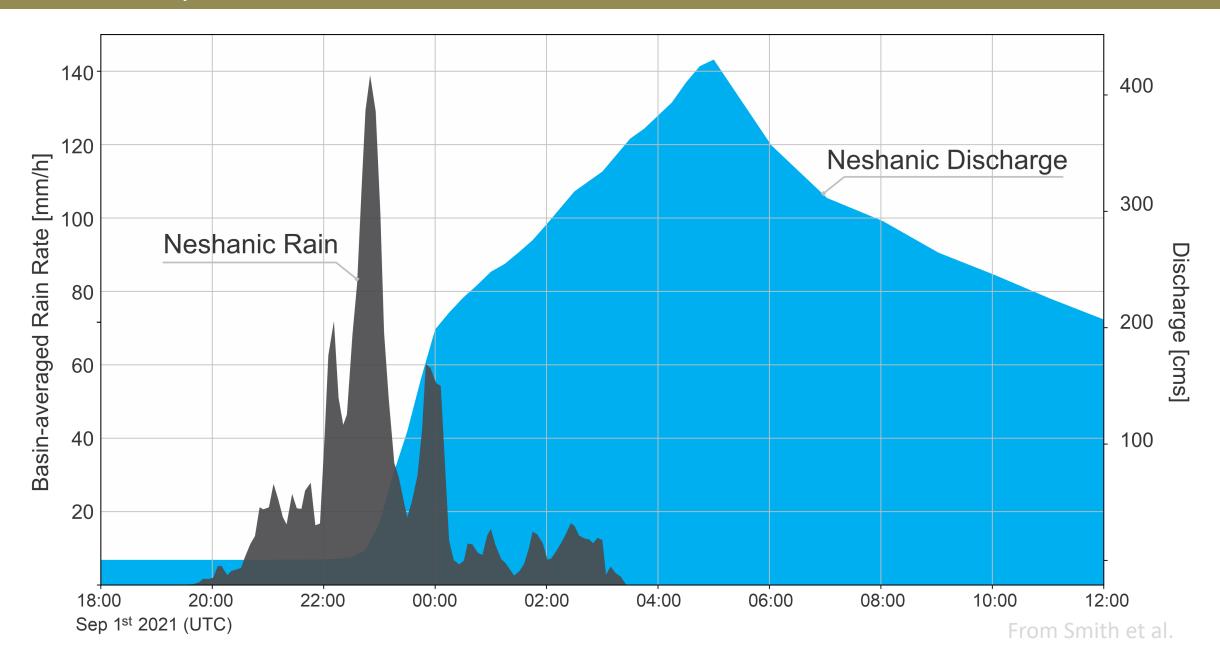
Extreme rainfall accumulation (Hurricane Ida, September 2021)



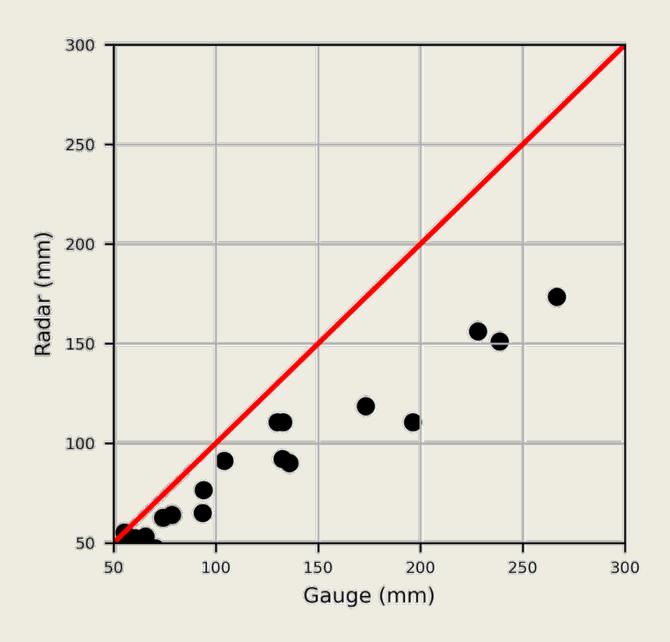
Excellent agreement between radar and rain gauges



Basin response



Typically, daily rainfall accumulations show significant conditional bias



Key points:

- Beam blockage and gaps in radar coverage create significant challenges for estimation
 of extreme warm season rainfall in mountainous terrain, but polarimetric radar
 provides a critical resource for assessing model performance in the extensive
 mountainous regions of the US with good radar coverage.
- Advances in polarimetric rainfall estimation algorithms combined with developing radar-rainfall reanalysis are needed for estimating rainfall extremes and their uncertainties, especially for PMP-magnitude events.

Thank You!

