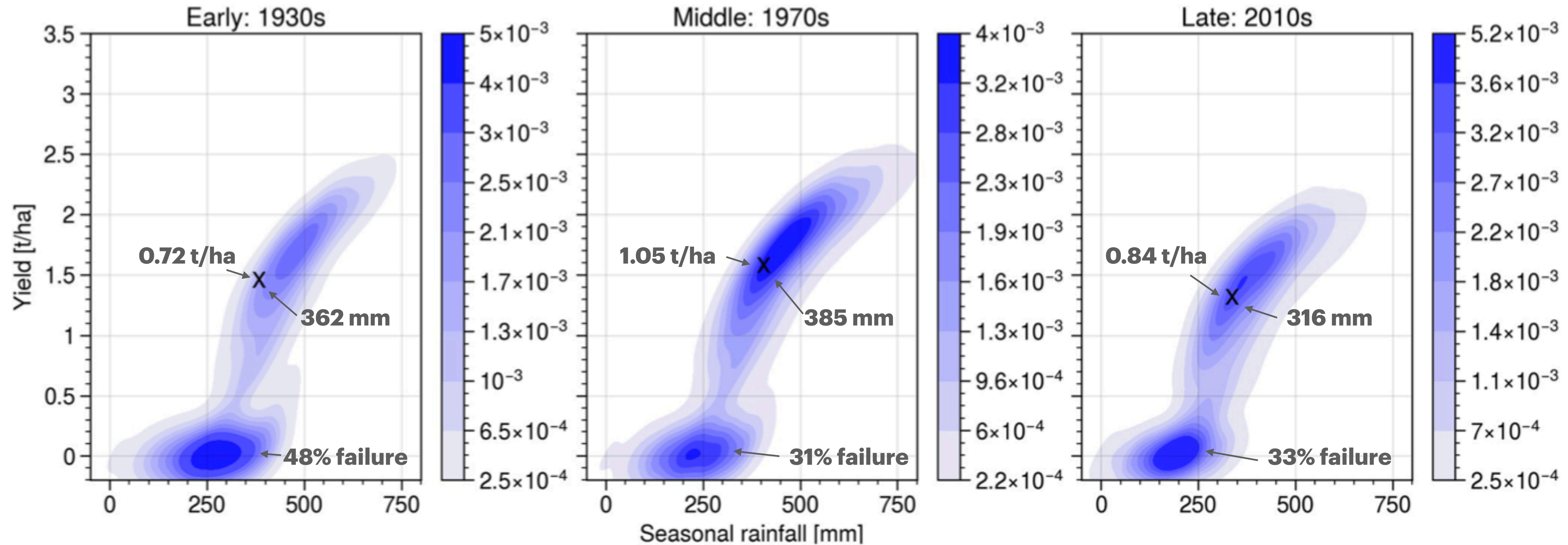
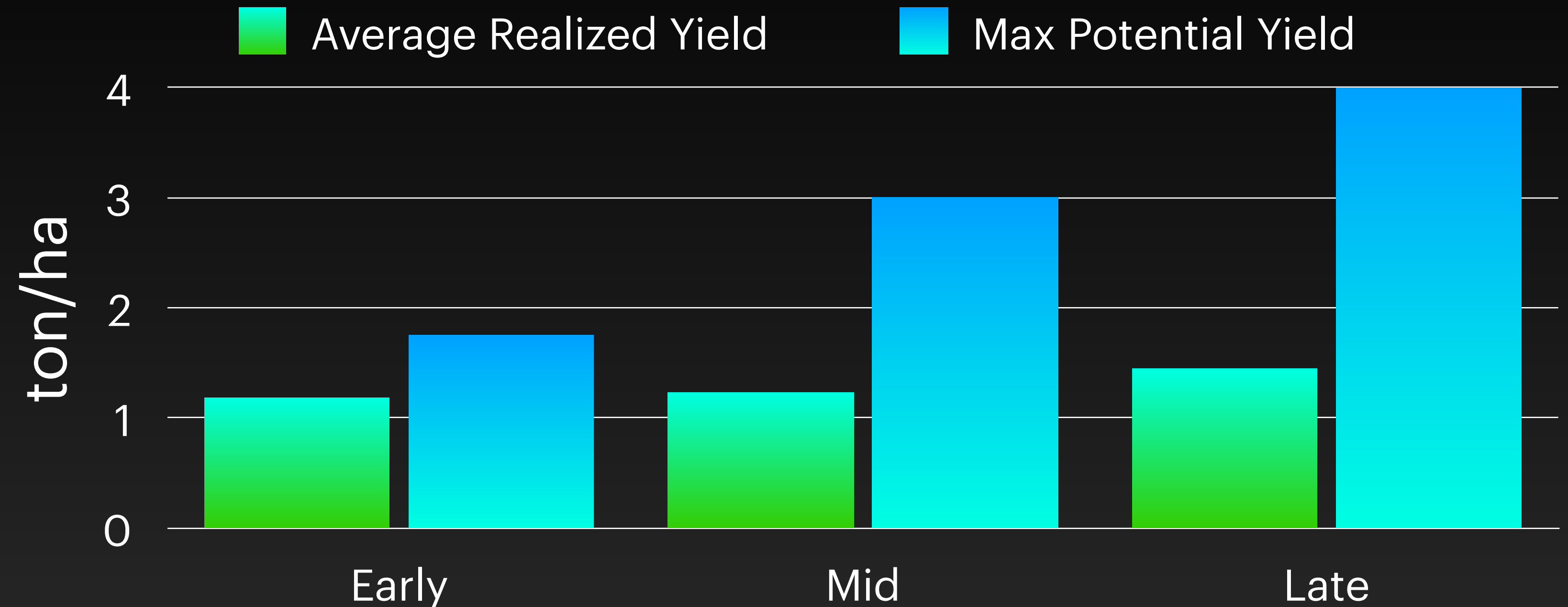
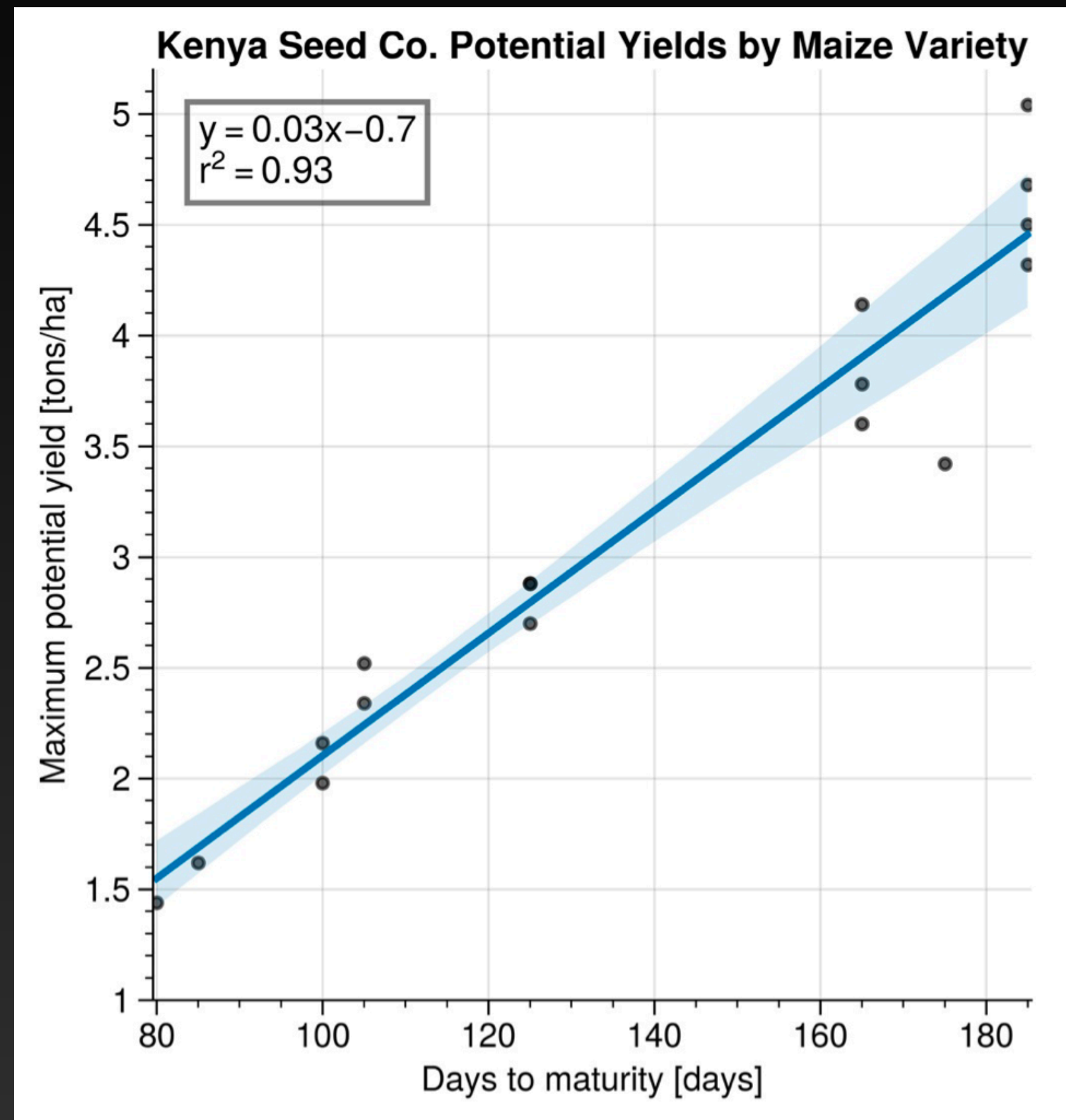


Distributions of Rainfall and Yield across 1930s, 1970s, and 2010s



Trends in rainfall climatology initially led to improved crop growing conditions from 1930-1970. But if existing trends continue, growing conditions will continue to degrade.

Ecohydrological Crop Modeling Summary



There is a limited benefit in pursuing higher yields and greater risk of failure suggests that rainfall variability places a constraint on yield improvement.

Shifting rainfall climatology is pushing agriculture towards **higher failure probabilities** and **lower average yields** even without changes in seasonal rainfall totals