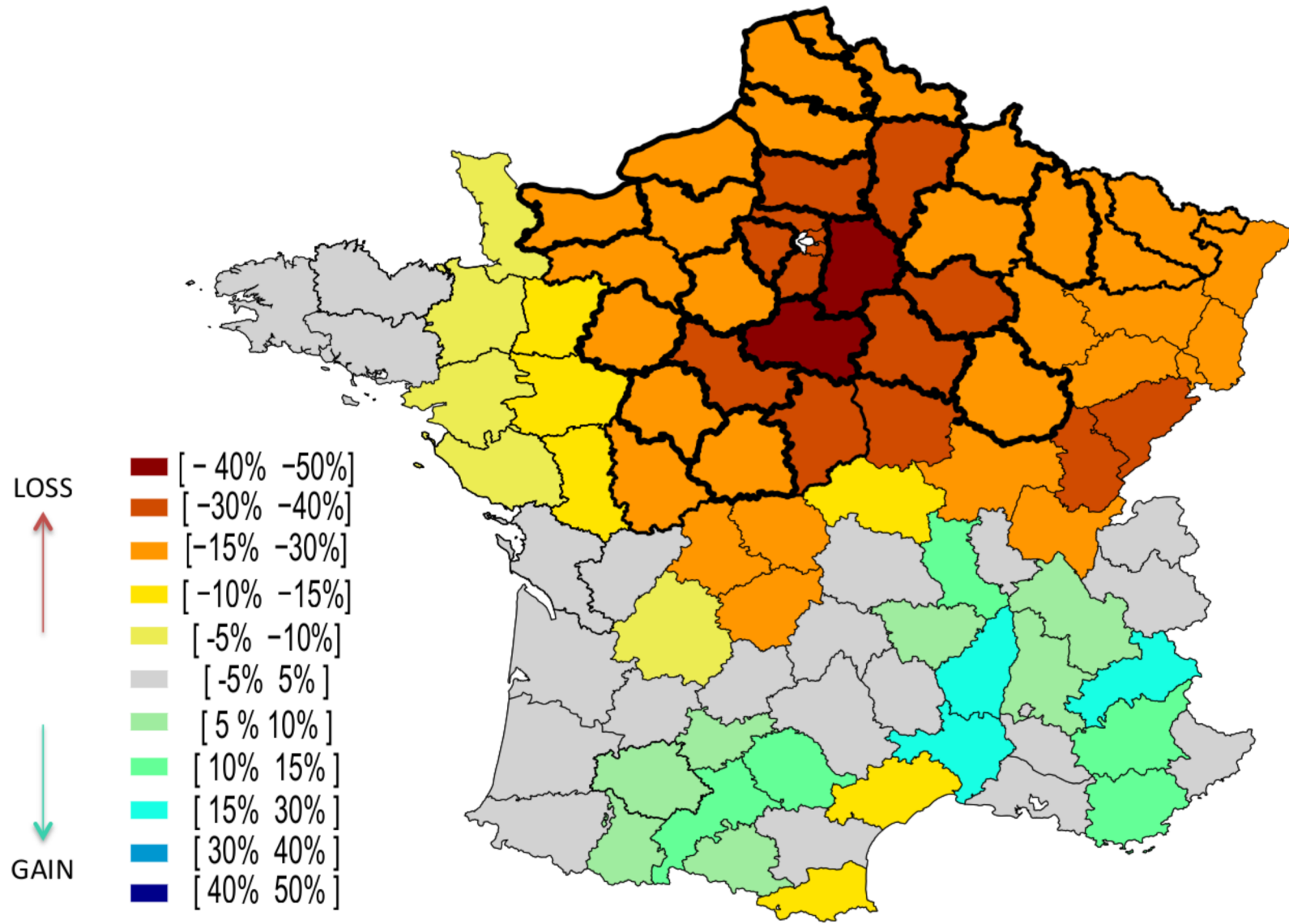




ANALYSIS OF THE 2016 EXTREME YIELD LOSS IN FRANCE'S BREADBASKET & ITS IMPLICATIONS

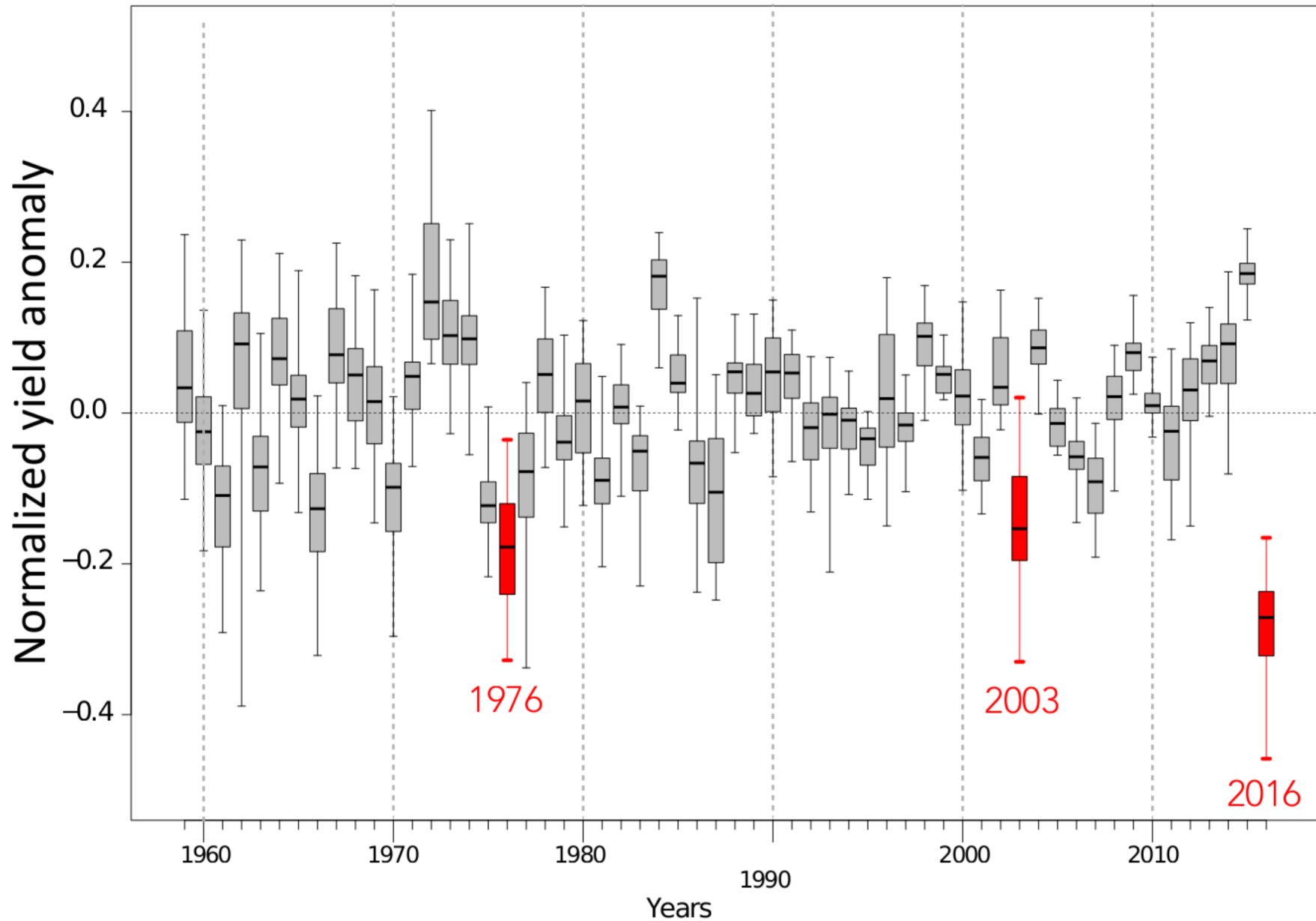
Tamara Ben Ari, David Makowski (INRA, FR)
Julien Boé (CERFACS, FR), Philippe Ciais (LSCE, FR)
Rémi Lecerf & Marijn Van der Velde (JRC, IT)

Wheat yield anomaly (% of expected value) in 2016

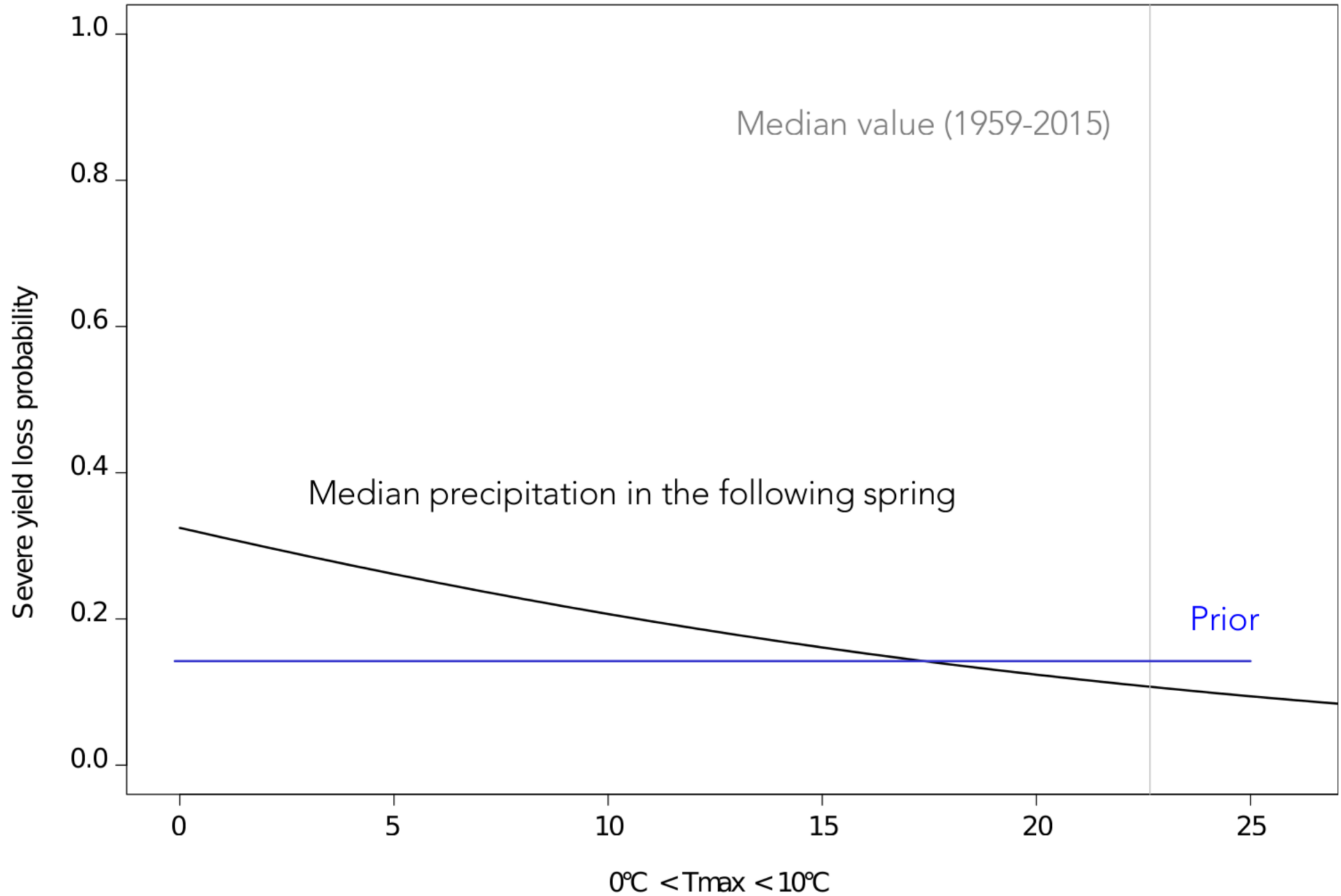


a. ○ Breadbasket (study area, n=27, ~ 67% of total production)

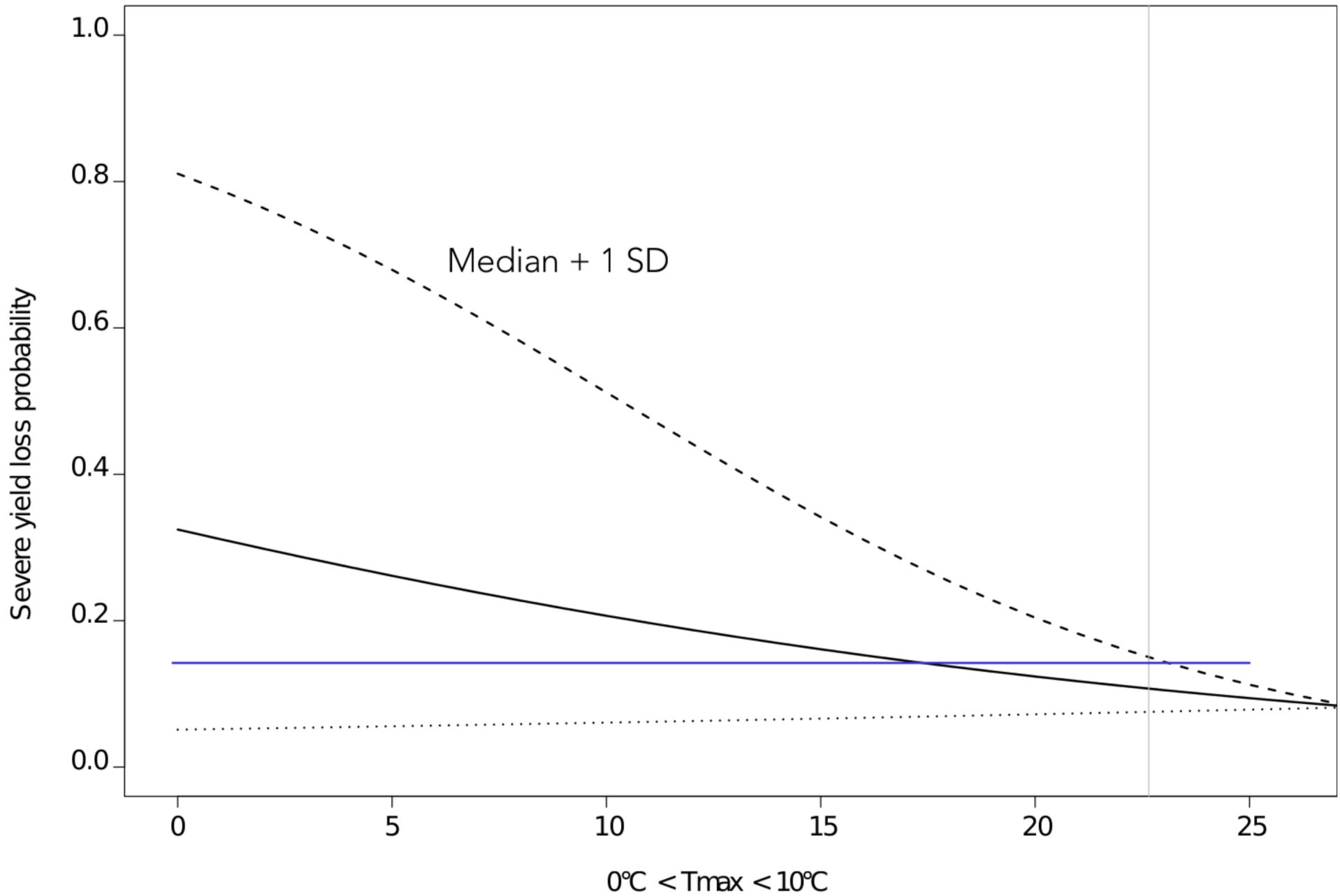
2016 : The most extreme yield loss since 1959



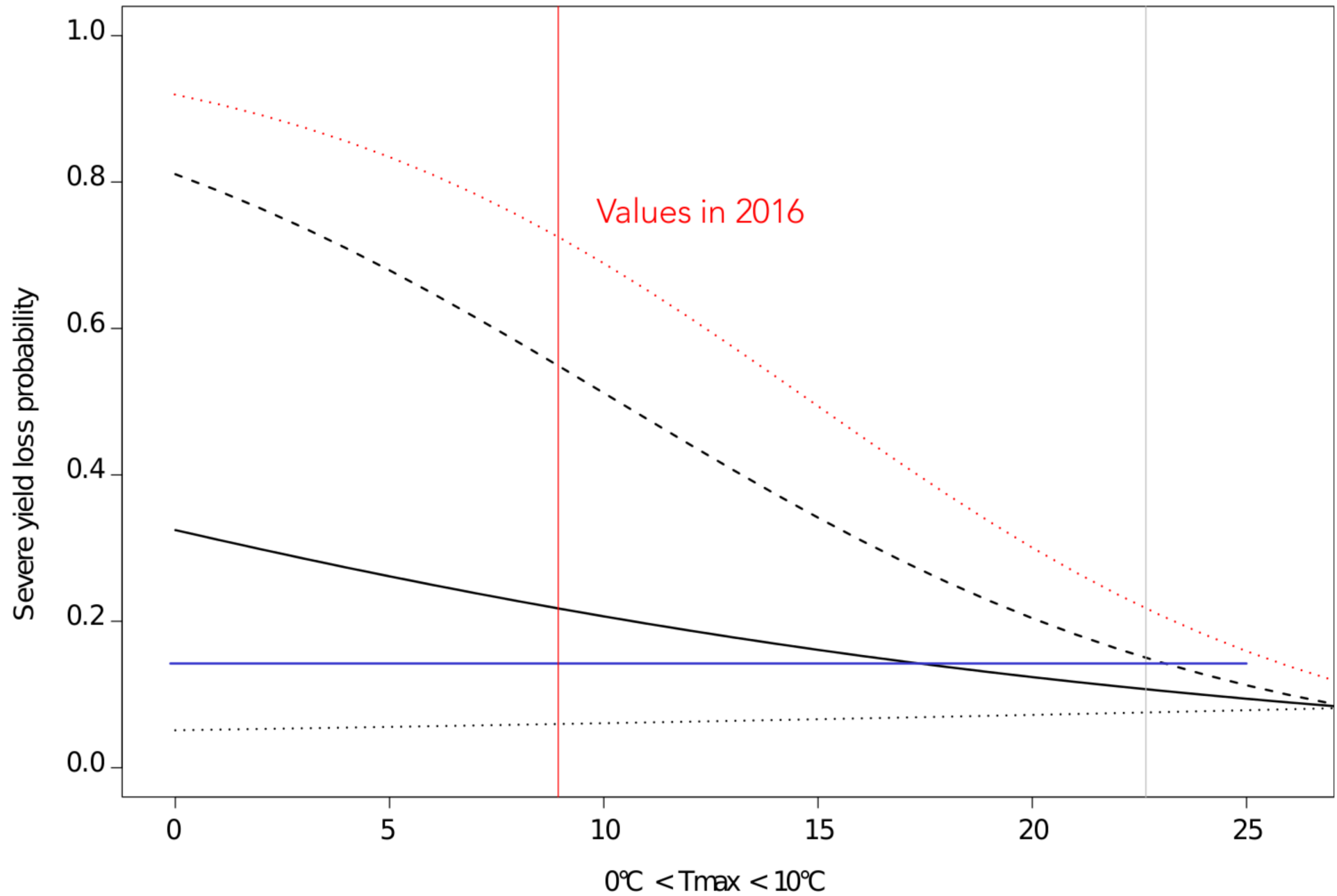
Fall – Spring interaction



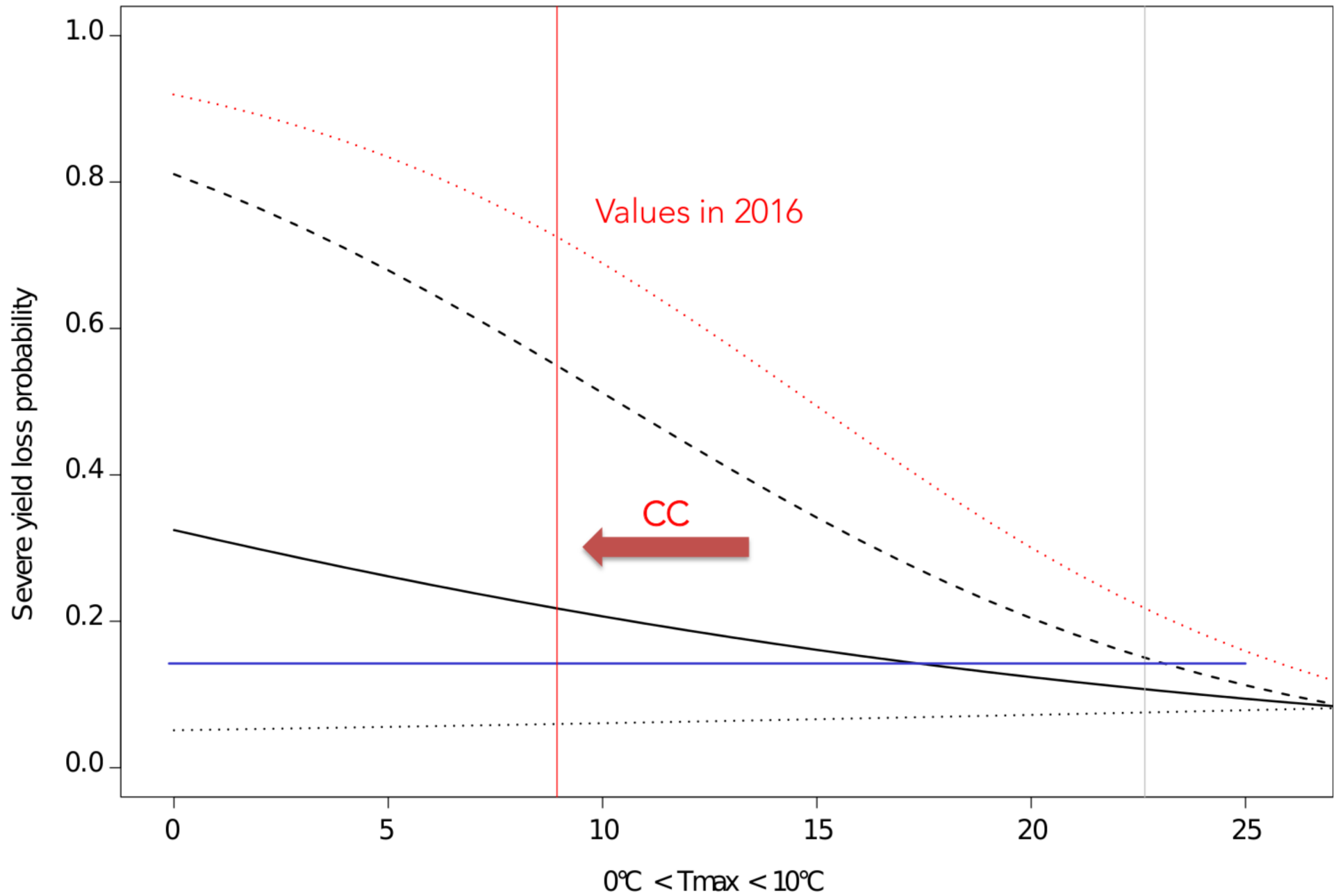
Fall – Spring interaction



Fall – Spring interaction

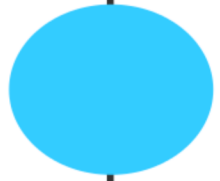


Fall – Spring interaction





Relevance of probabilistic tools for forecasting systems (but quantitative injunction)



Is fall overlooked in climate impact studies?



Plausible eco-physiological processes in relation to the *fall-spring* interaction