

## ARTICLES

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nature  
climate change



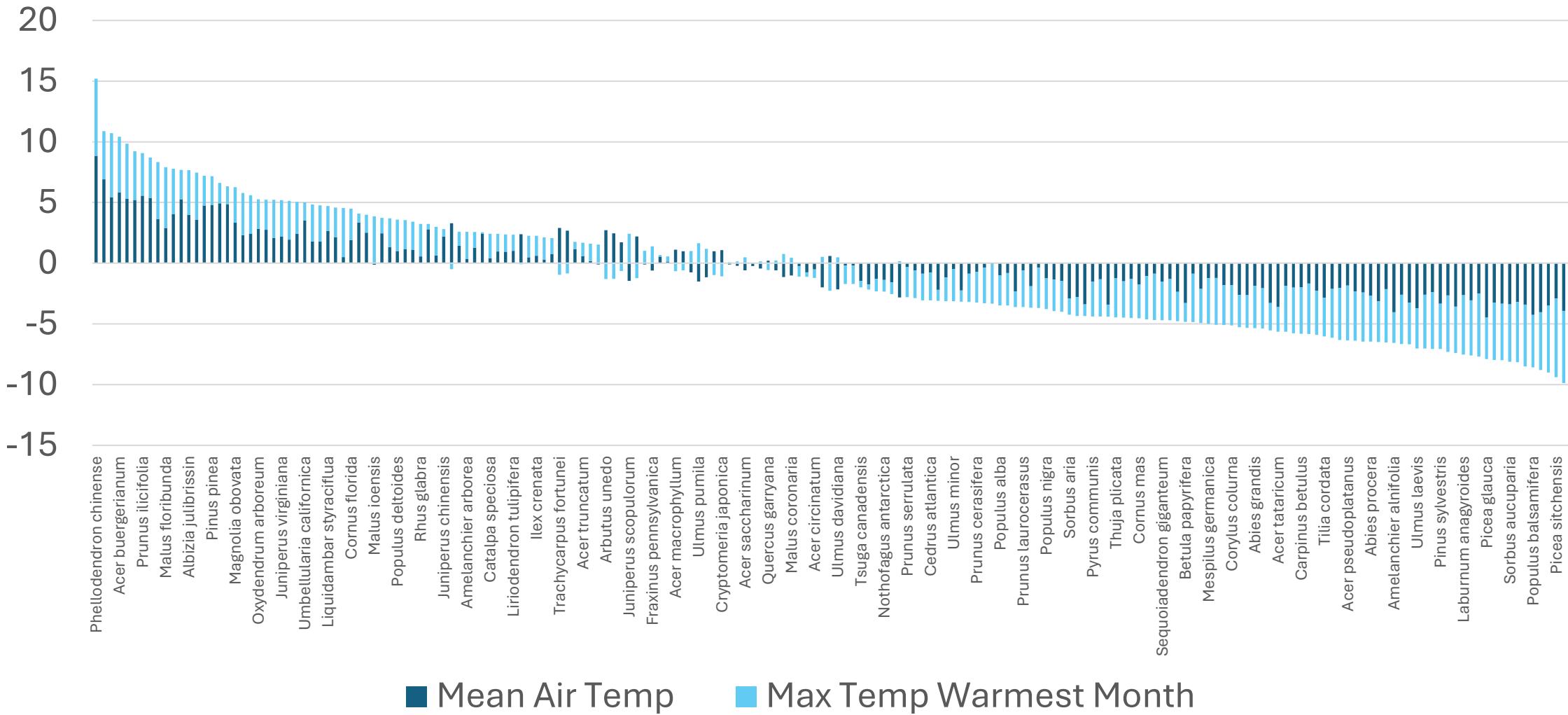
# Climate change increases global risk to urban forests

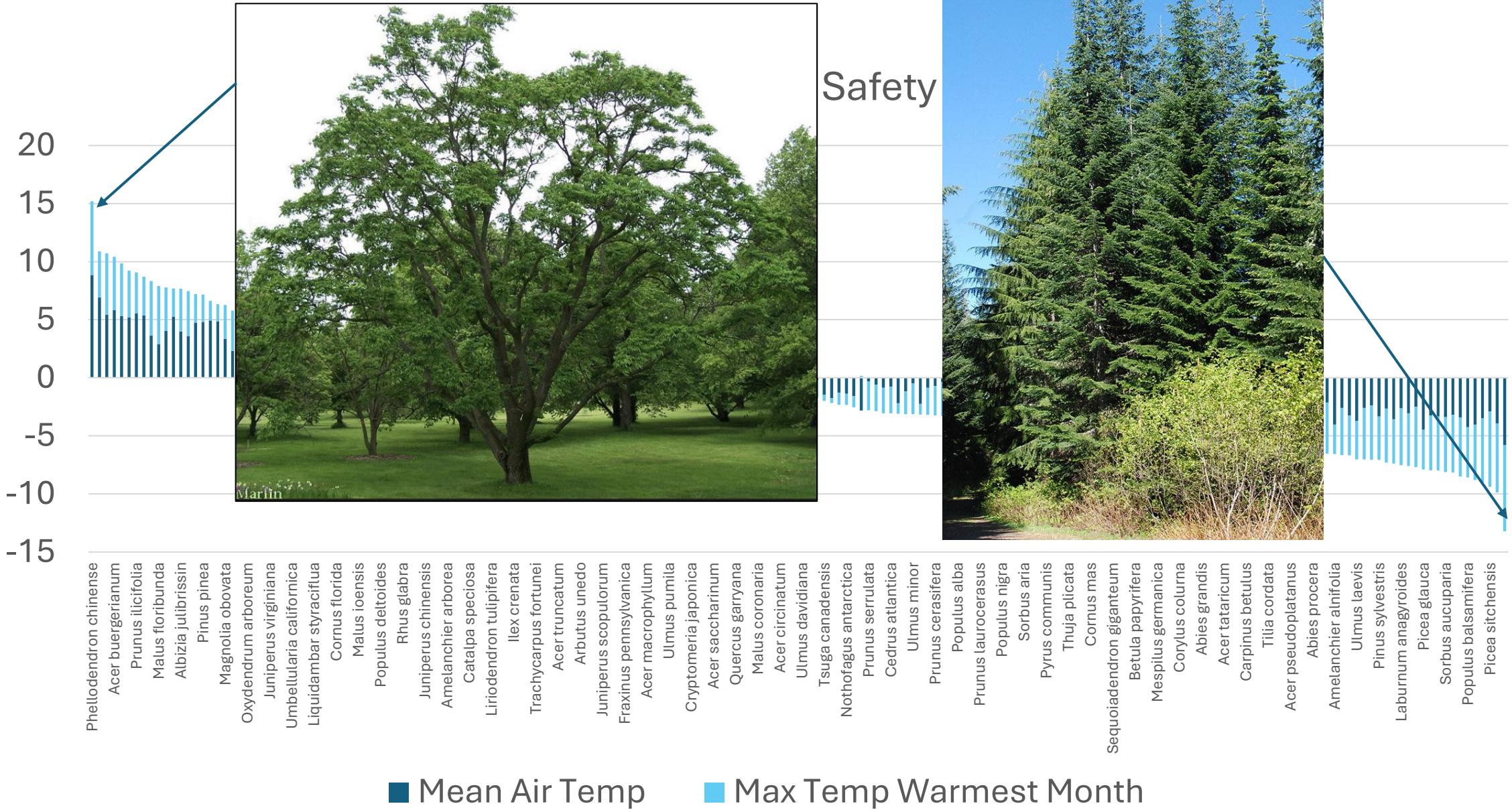
Manuel Esperon-Rodriguez  , Mark G. Tjoelker , Jonathan Lenoir , John B. Baumgartner , Linda J. Beaumont<sup>4</sup>, David A. Nipperess , Sally A. Power , Benoît Richard<sup>5</sup>, Paul D. Rymer  and Rachael V. Gallagher 

## **Species climatic safety margin**

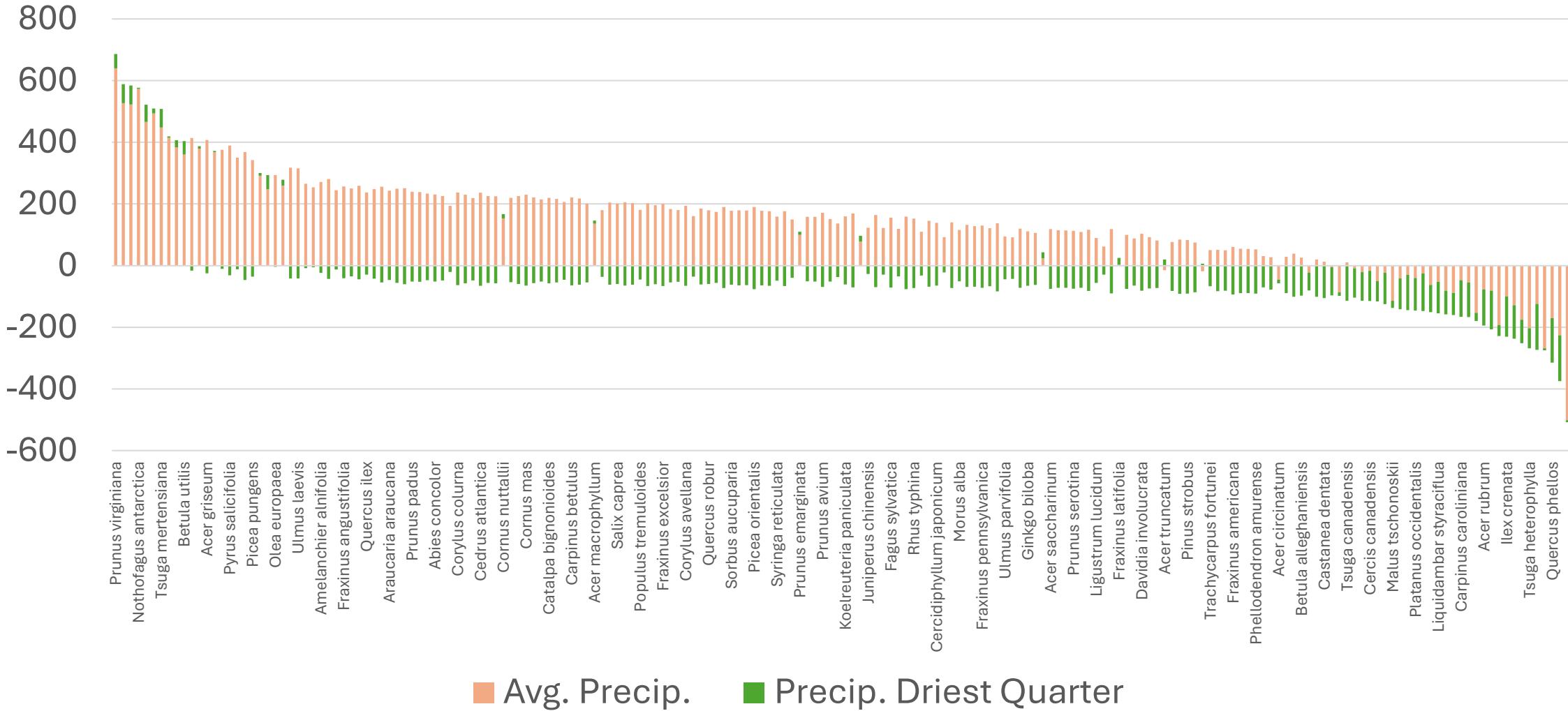
The safety margin describes intrinsic species sensitivity to climate change and indicates potential tolerance to changing climate conditions<sup>18,24</sup> of tree and shrub species within a given city. The safety margin is calculated as the difference between baseline climate conditions (for example, MAT or AP) for the city and the species' tolerance limit in relation to the direction of change for the climate variable being examined (for example, the upper limit in case of warmer MAT or the lower limit in case of drier AP) (Supplementary Fig. 3). For each climate

# Current Temperature Safety Margins





# Current Precip Safety Margin





■ Avg. Precip.

■ Precip. Driest Quarter



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Species Mar

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