







Collaborators



Research: Christy Rollinson, Luke McCormack, Jake Miesbauer, Juliana Harr, Brendon Reidy, Abby Tumino, Marvin Lo Plant Clinic: Spencer Campbell



Zach Wirtz, Lindsay Darling, (Lydia Scott)



Trent Ford



M. Ross Alexander



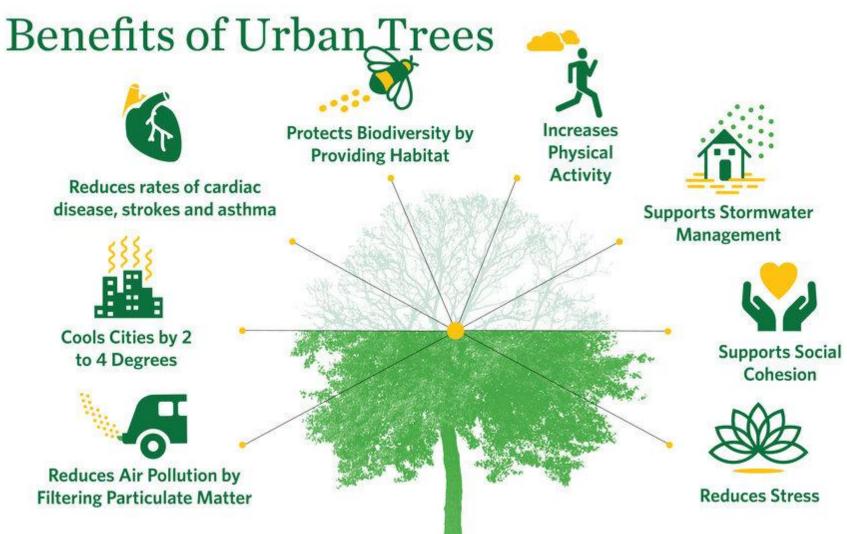
Lindsay Darling



Renata Poulton Kamakura



Trees provide many benefits.

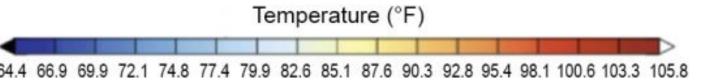




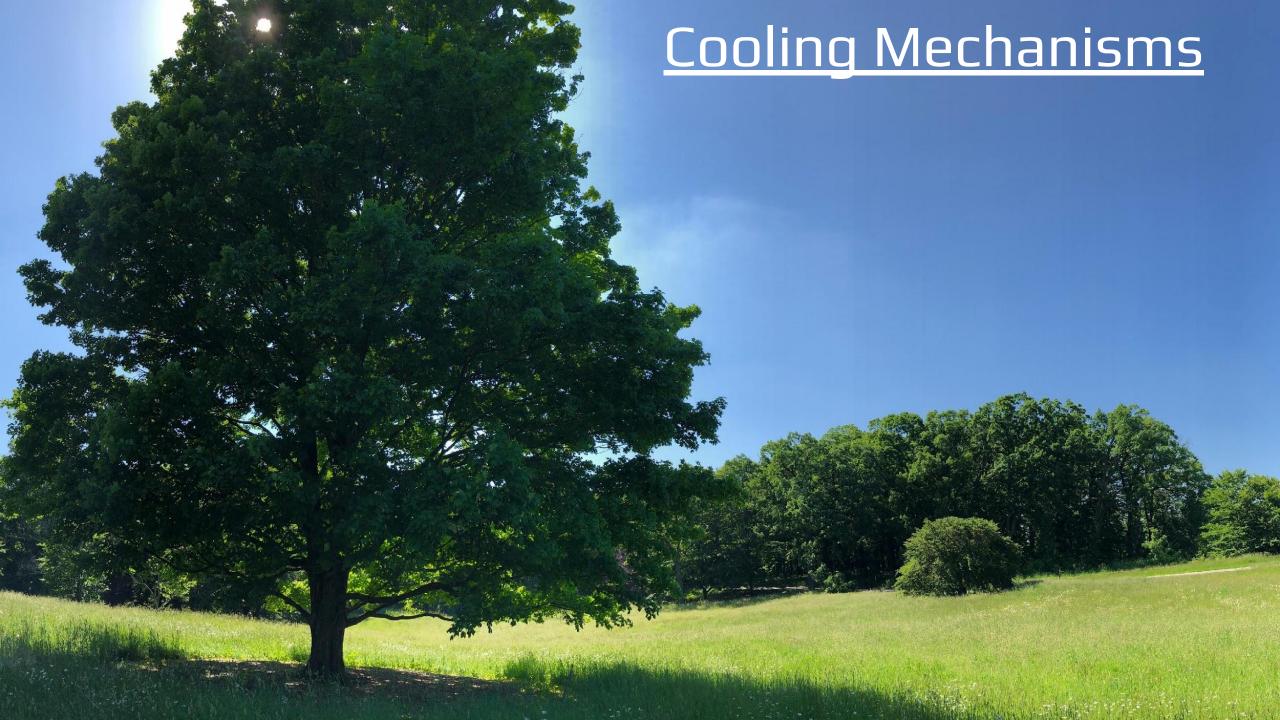
Cooling benefits are well-studied and clear.

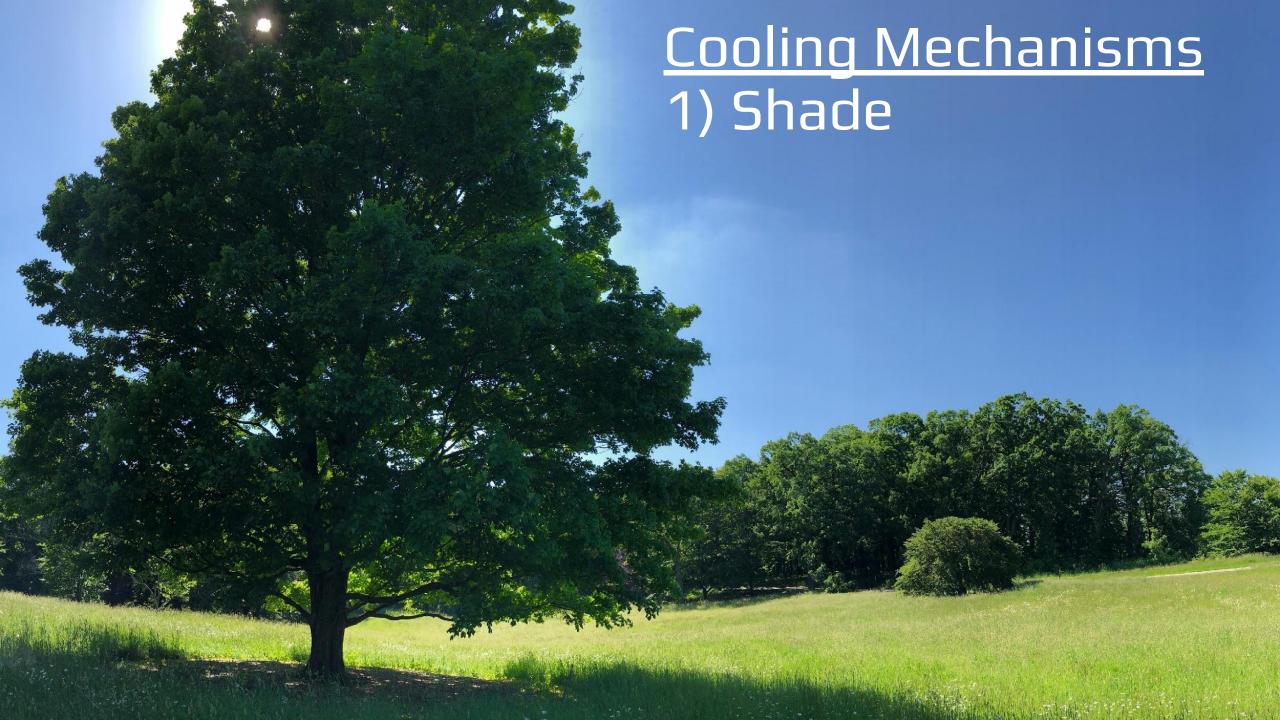
Central Park Manhattan

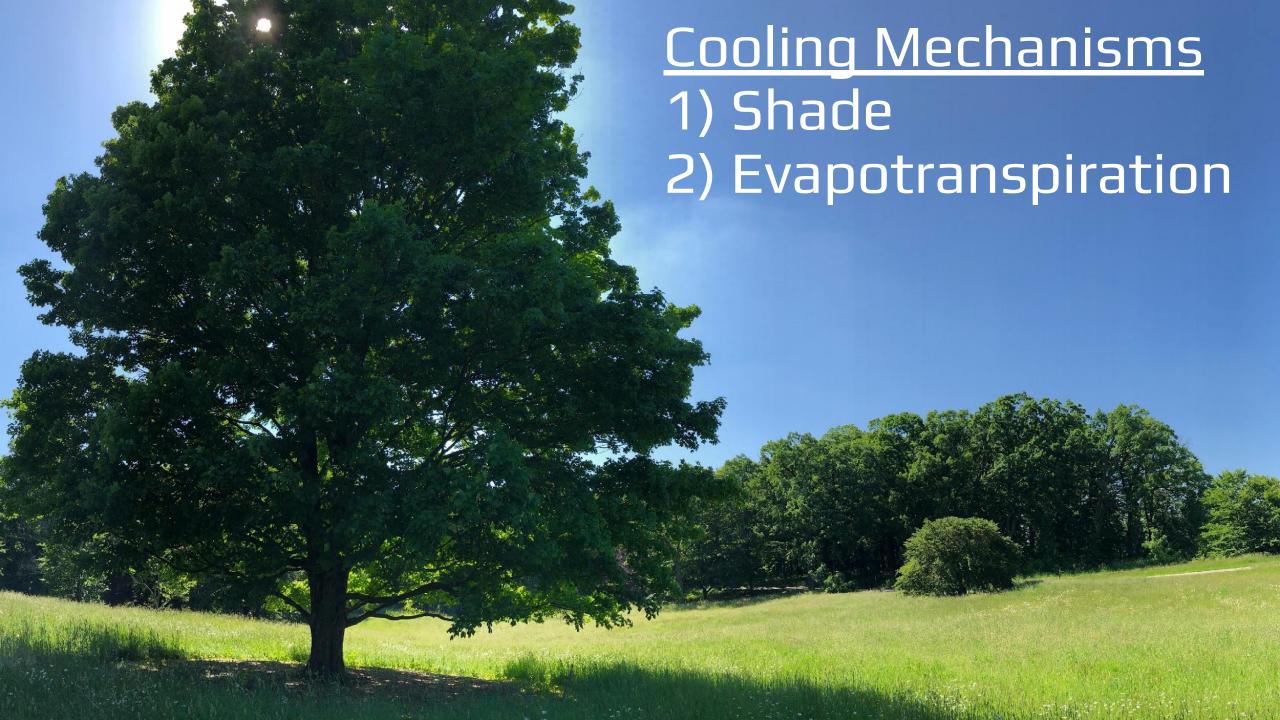
Figure: Center for Climate Systems Research, Columbia University (via globalchange.gov)











Cooling effects vary by species, climate, and location...

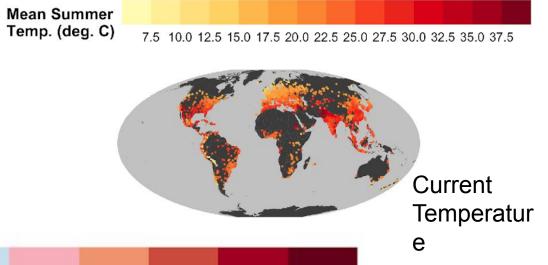


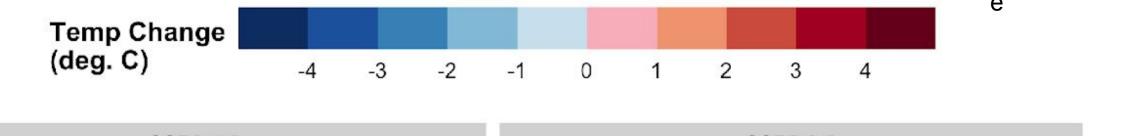
Cooling effects vary by species, climate, and location... but so must goals and benchmarks.

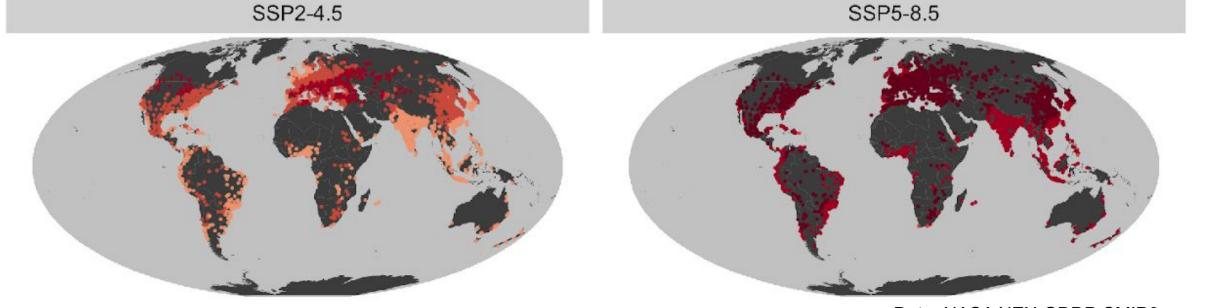
Tucson, Chicago,



Projected change in temperature by 2100: Warming varies by region

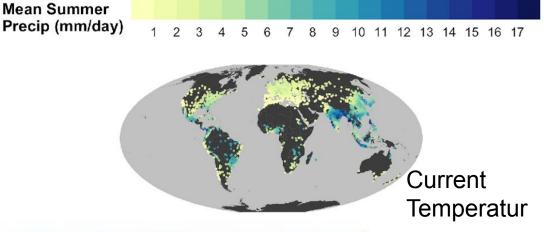




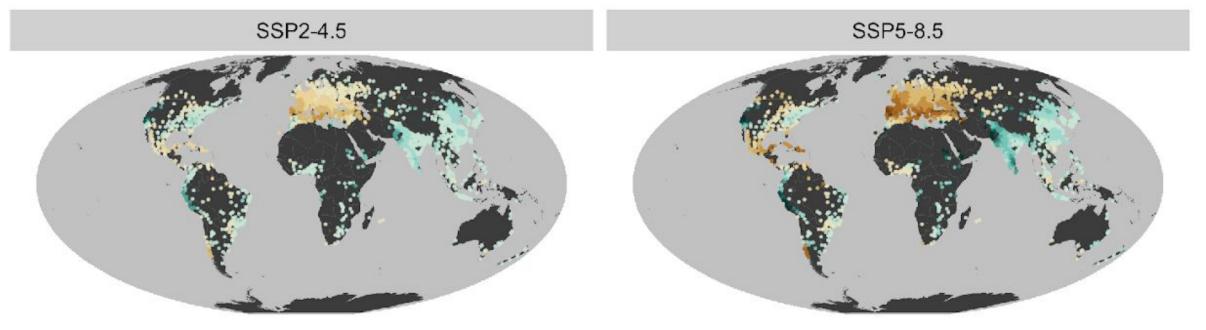


Data: NASA NEX-GDDP CMIP6

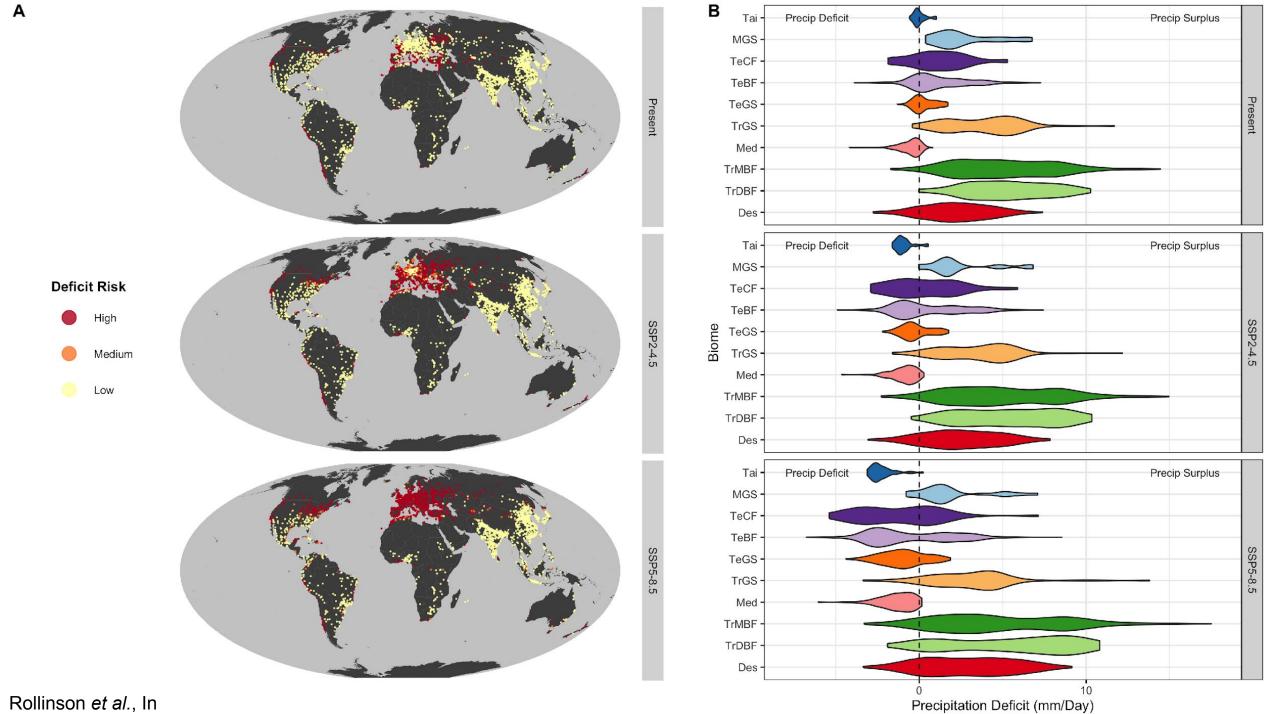
Projected change in preciptiation by 2100: *HIGHLY* variable





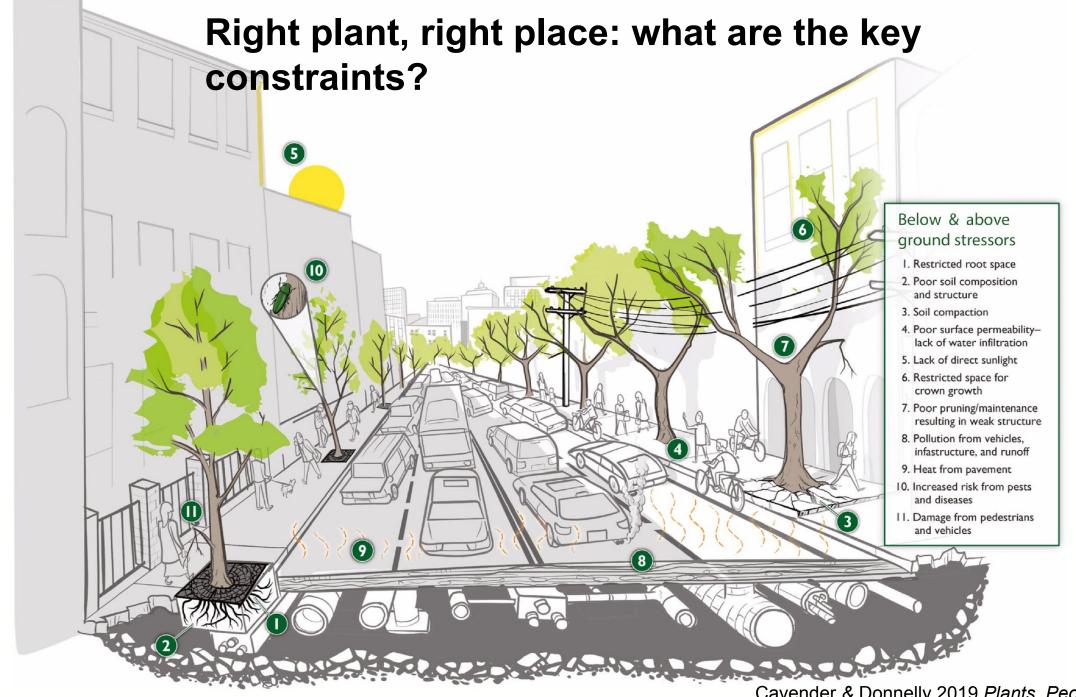


Data: NASA NEX-GDDP CMIP6



Rollinson et al., In







Species selection is critical... but a lot of work remains to make robust recommendations



Adaptive management is essential for coping with uncertainty.

Effective solutions require action now with a plan for responding to tomorrow's unknowns.



