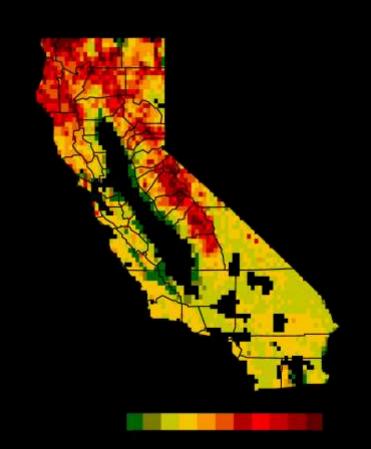
# Climate Change Impacts on Wildfire

March 17, 2009

Climate Change Symposium Tahoe, CA

- A. Westerling UC Merced
- B. Bryant RAND
- H. Preisler USFS
- H. Hidaldo & T. Das SIO
- S. Shrestha UC Merced

California Energy Commission
NOAA OGP ★ USDA Forest Service



**Emissions Scenarios** 

sresA2

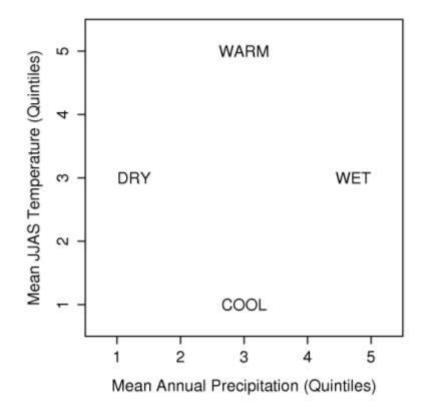
sresB1

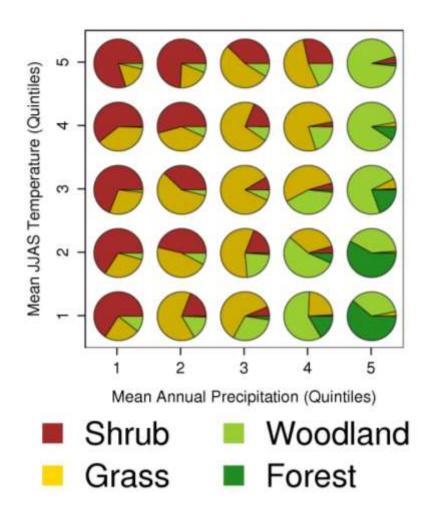
Where do we summarize Variability?

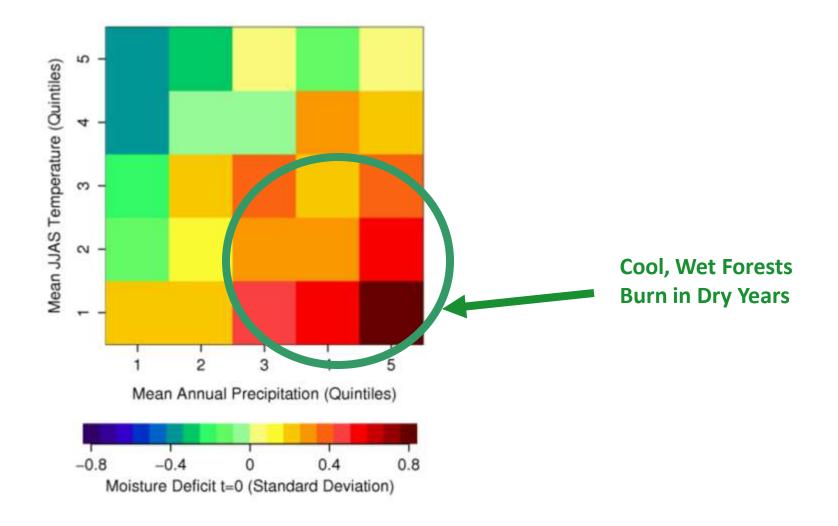
vs

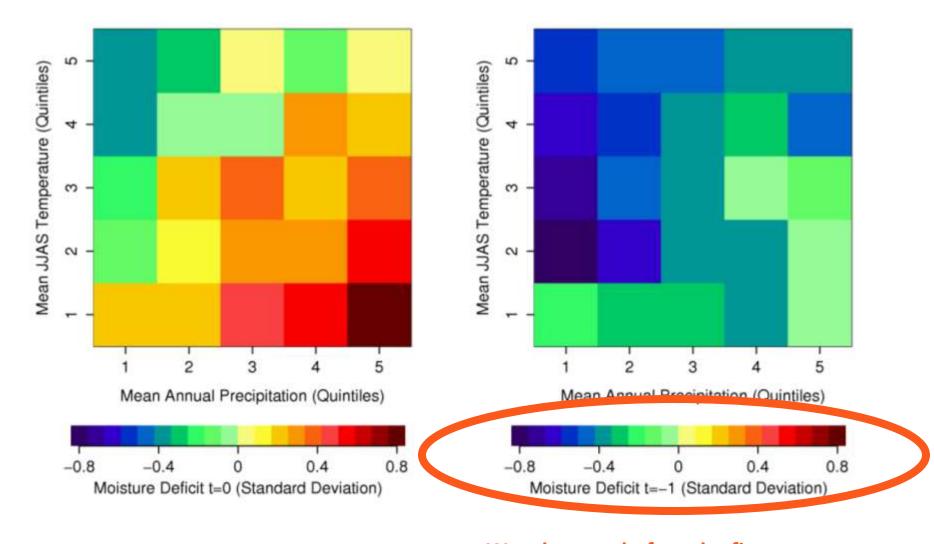
Where can we assess the effects of Policy?

Climate Models	Downscaling Methods	Hydrologic Modeling	Fire & Veg Change	Development Scenarios
cnrmcm3	Analog	VIC simulation	statistical modeling	Lo/mid/hi Population growth
gfdlcm21	BCSD			
microc32med				Clustering/footprint
mpiecham5				Impacts
ncarccsm3				Property Losses
ncarpcm1				Suppression Costs Ecosystem Services

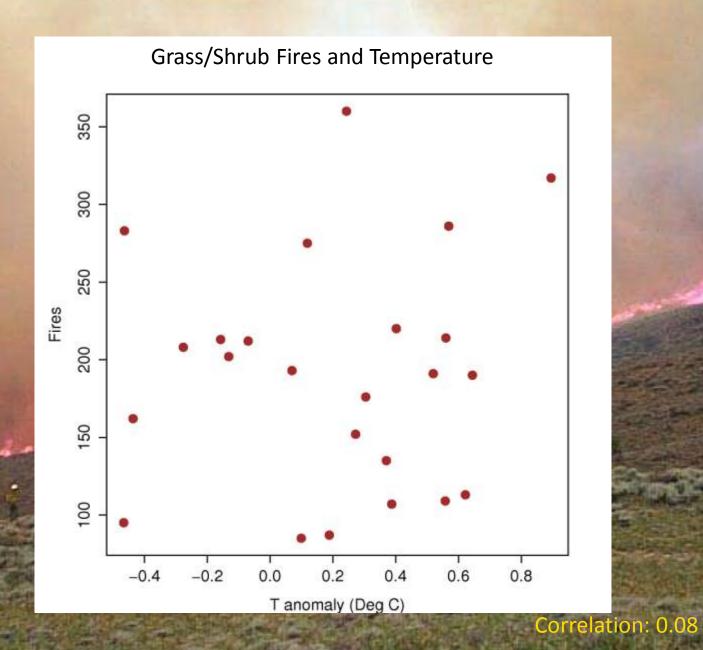


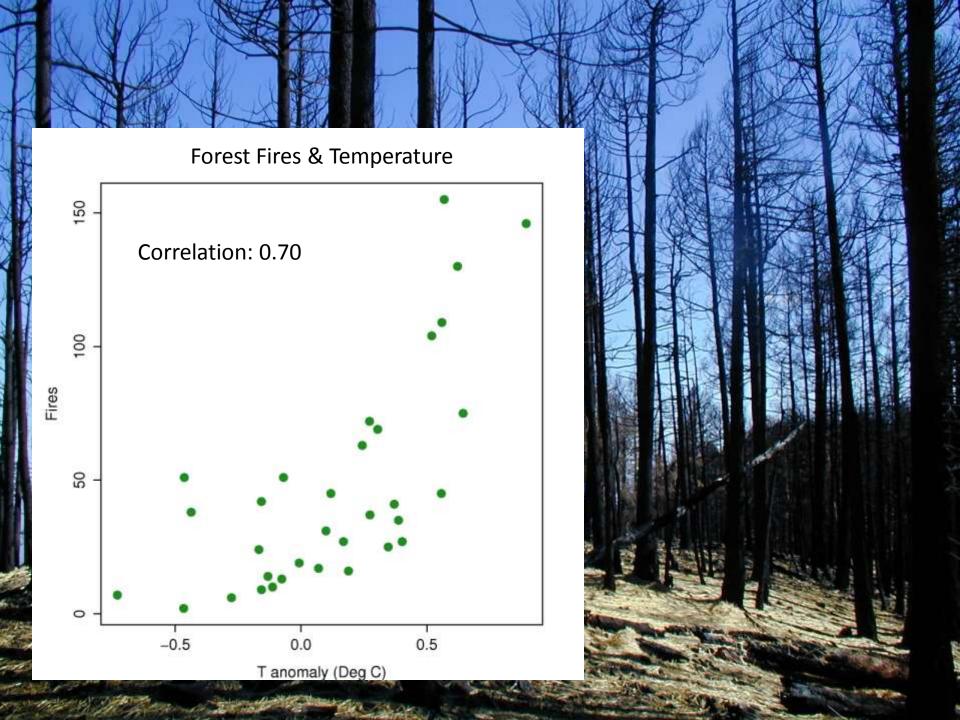


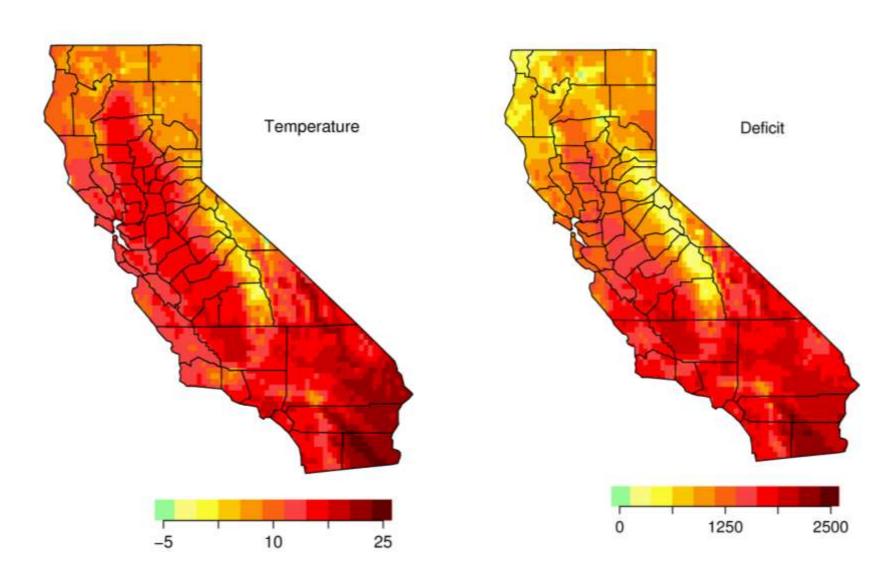


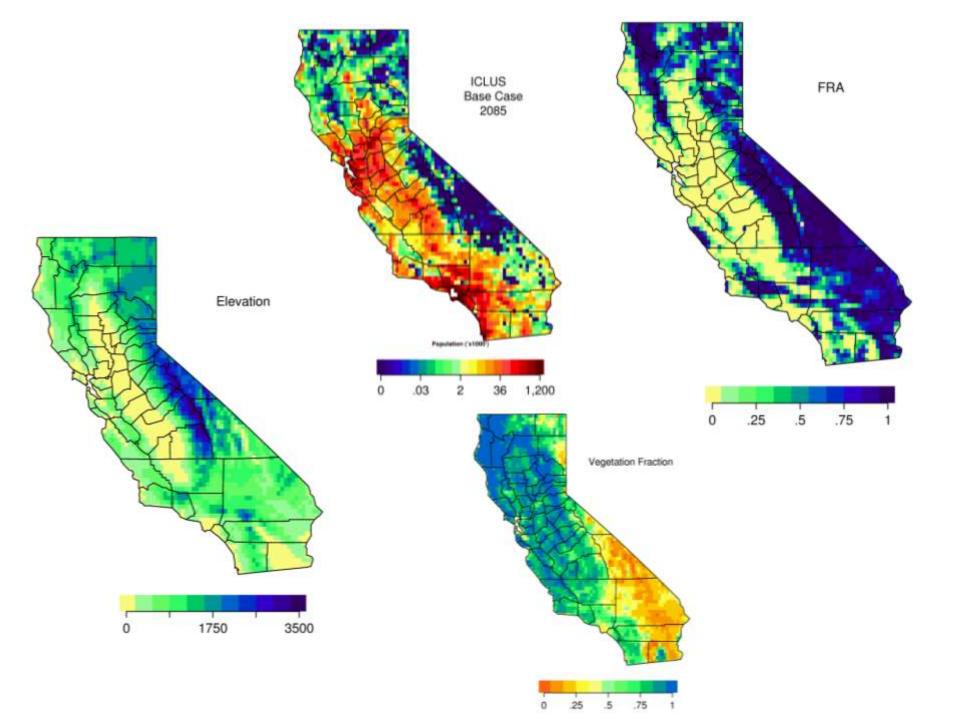


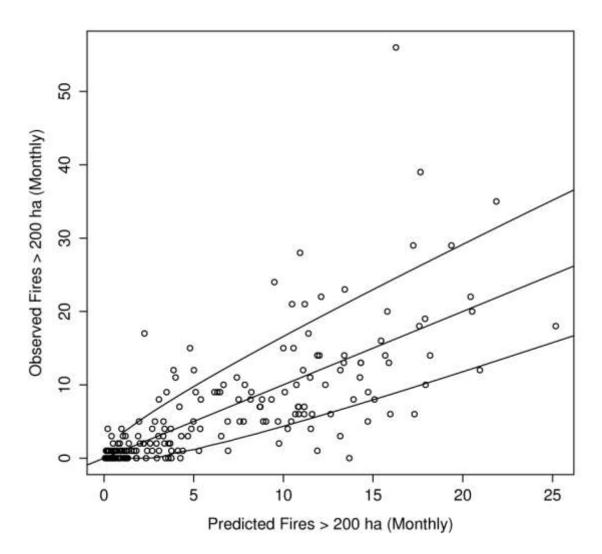
Was the year before the fire burned wet or dry?

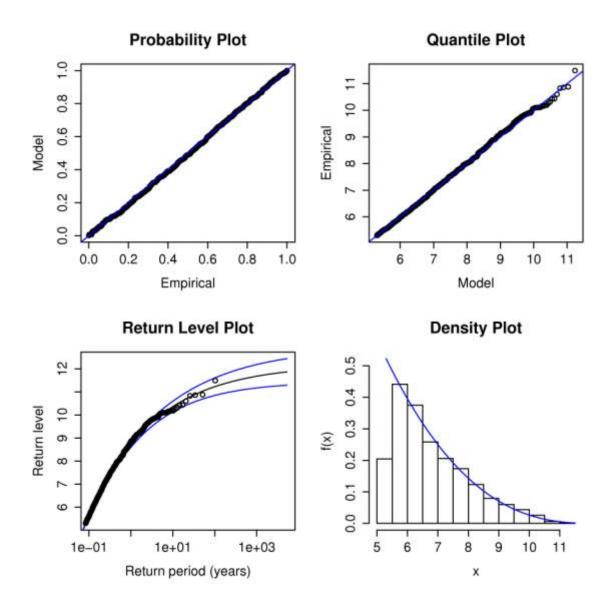




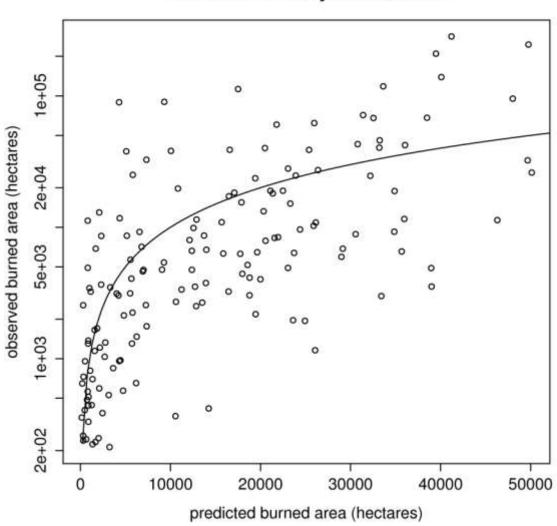




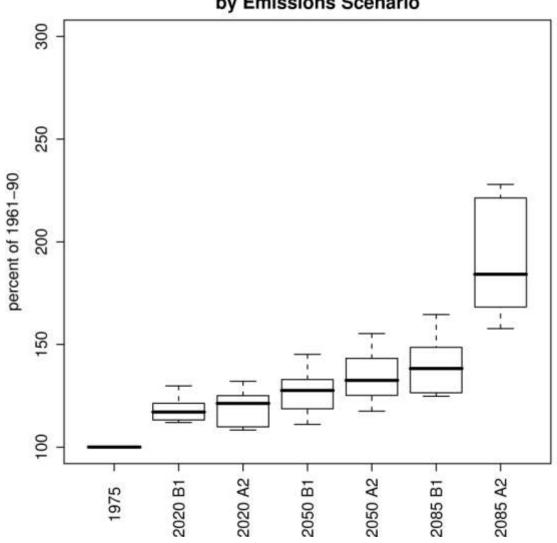




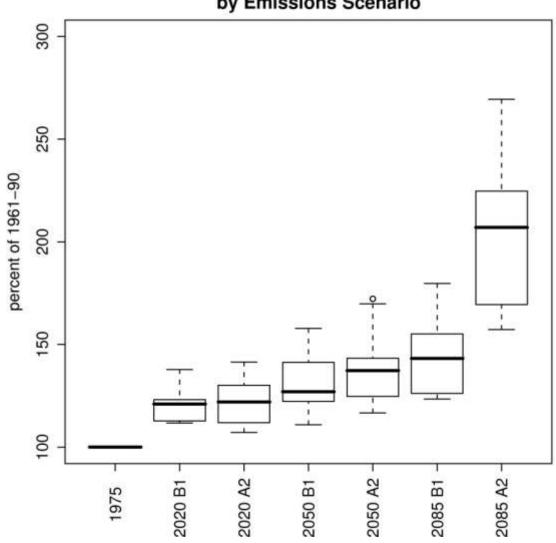
#### California Monthly Burned Area

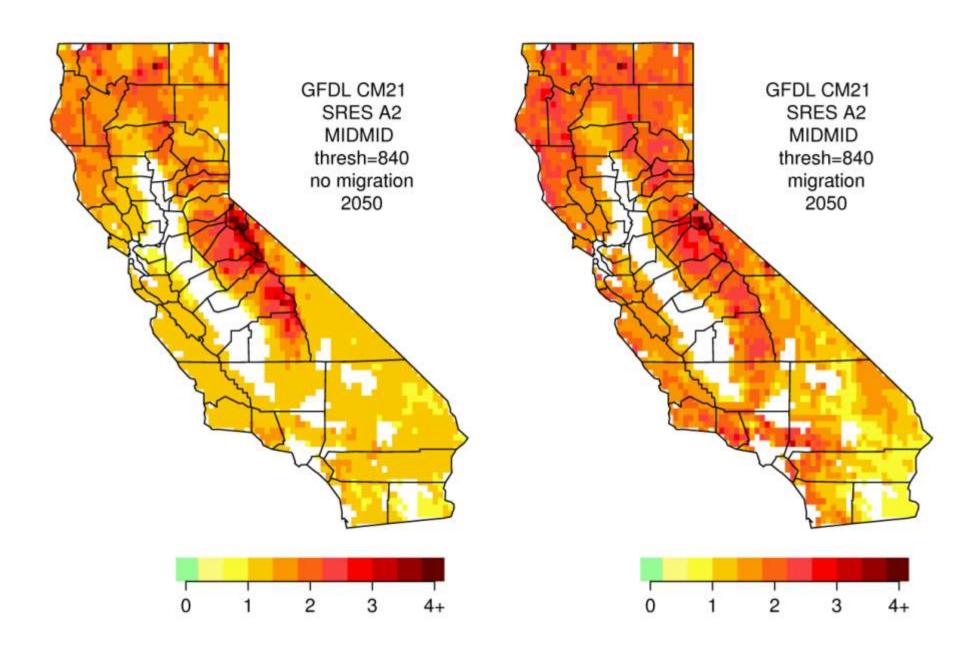


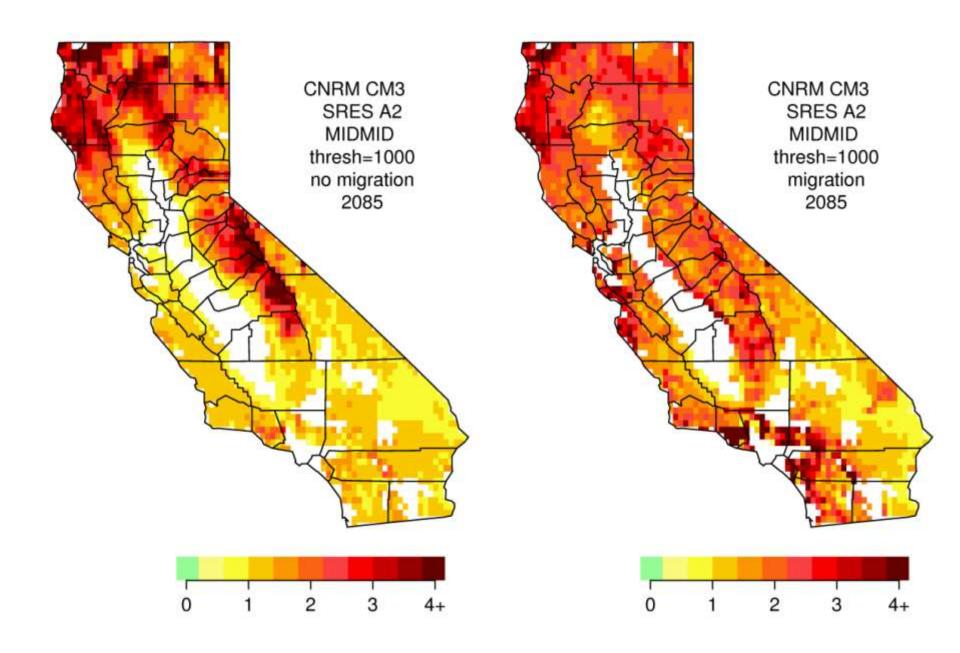
#### Change in Mean Expected Fires >200 ha by Emissions Scenario

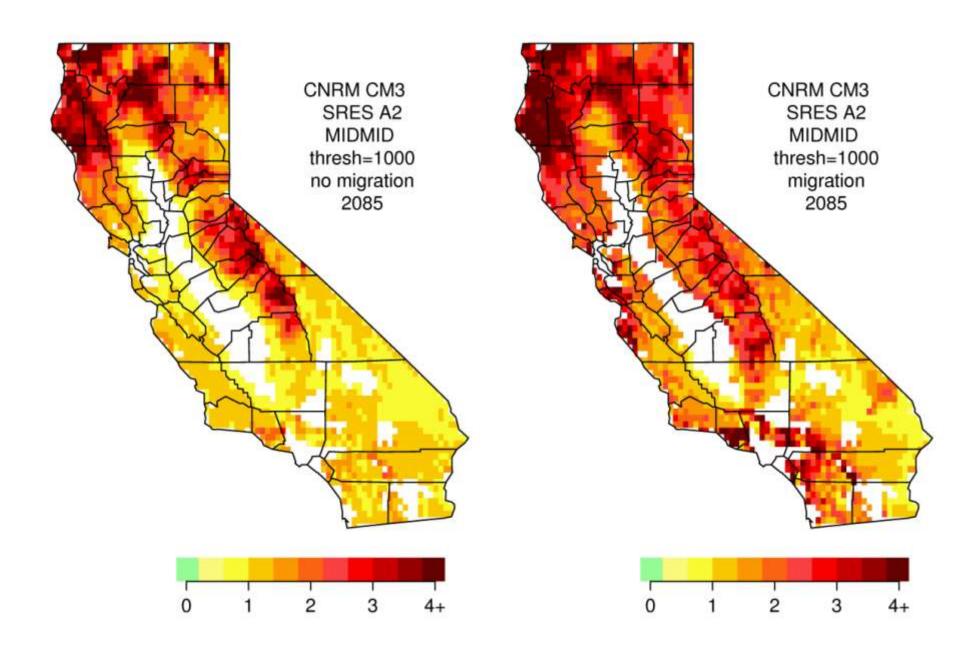


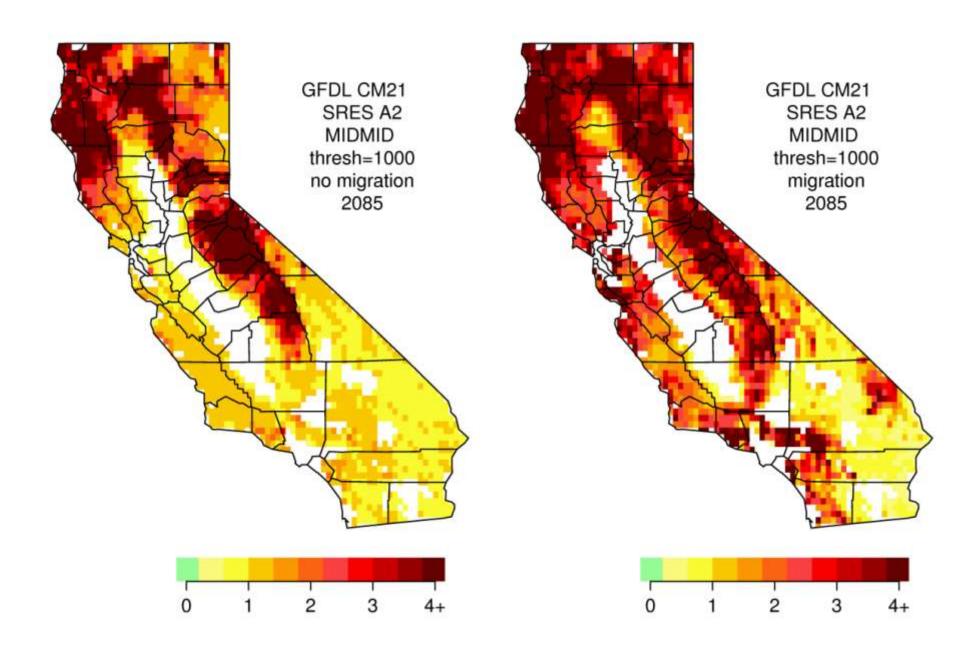
# Change in Mean Expected Burned Area by Emissions Scenario



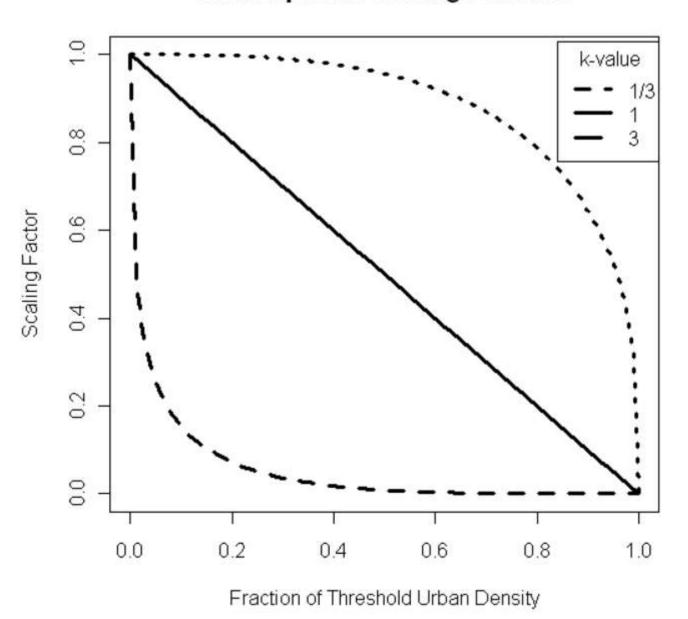








### **Risk Exposure Scaling Function**



### Changes in Statewide Residential Wildfire Risk

