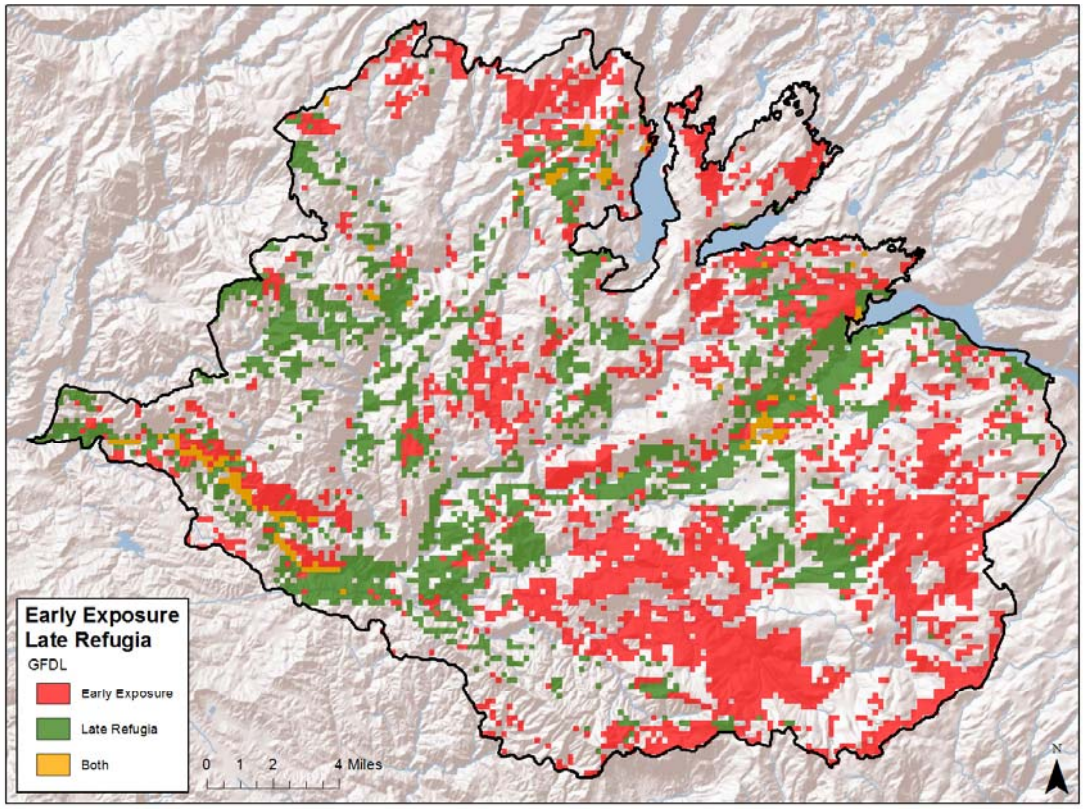


Rim Fire Boundary.

Green – places that remain within bioclimatic envelope at end of century.

Red: places that fall outside of bioclimatic envelope by 2040

Collaborative Planning Experiment in "Alternative Fire Management Futures"

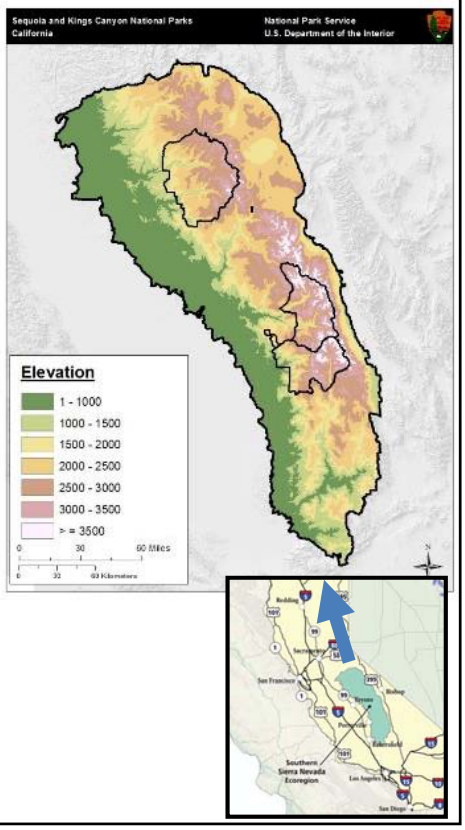
Protected Area Centered Ecosystem (PACE)

National Park Service
- Sequoia & Kings Canyon NPs resources, fire management & interpretation (~10 people)
- NPS Climate Change Response Program – Patrick Gonzalez

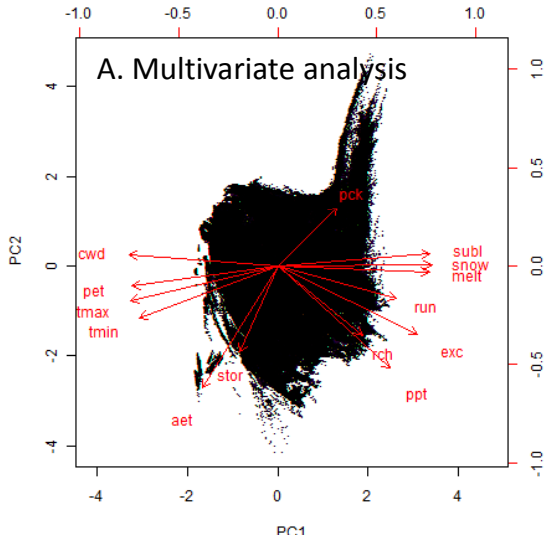
US Forest Service
- Sequoia NF & Giant Sequoia NM province ecologist & fire manager – Marc Meyer & others

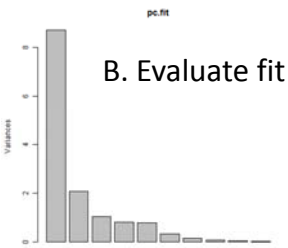
US Geological Survey
- Sequoia & Yosemite field stations – Nate Stephenson, Matt Brooks

University of CA
- UC Davis – Mark Schwartz, Jim Thorne, Andy Holguin
- UC Berkeley – Max Moritz

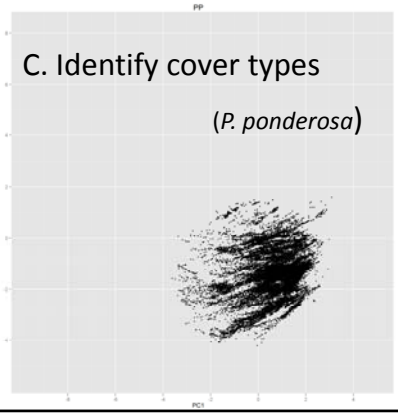


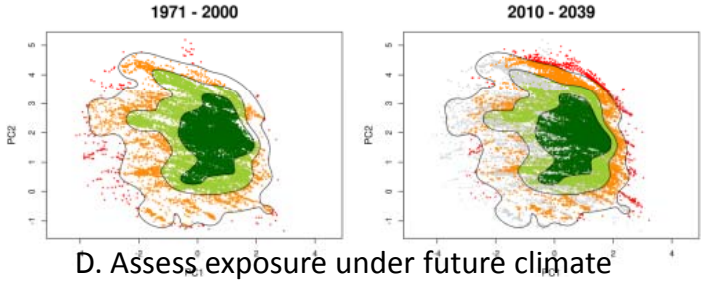
Vegetation Exposure to Climate Change



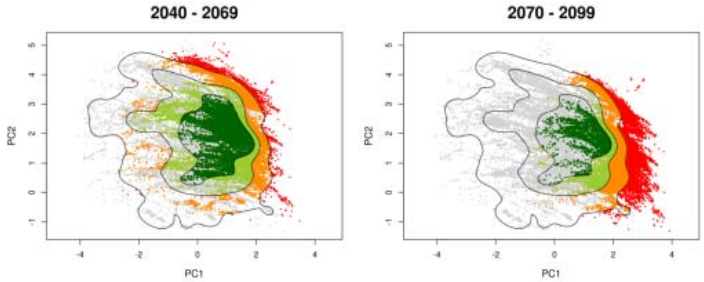


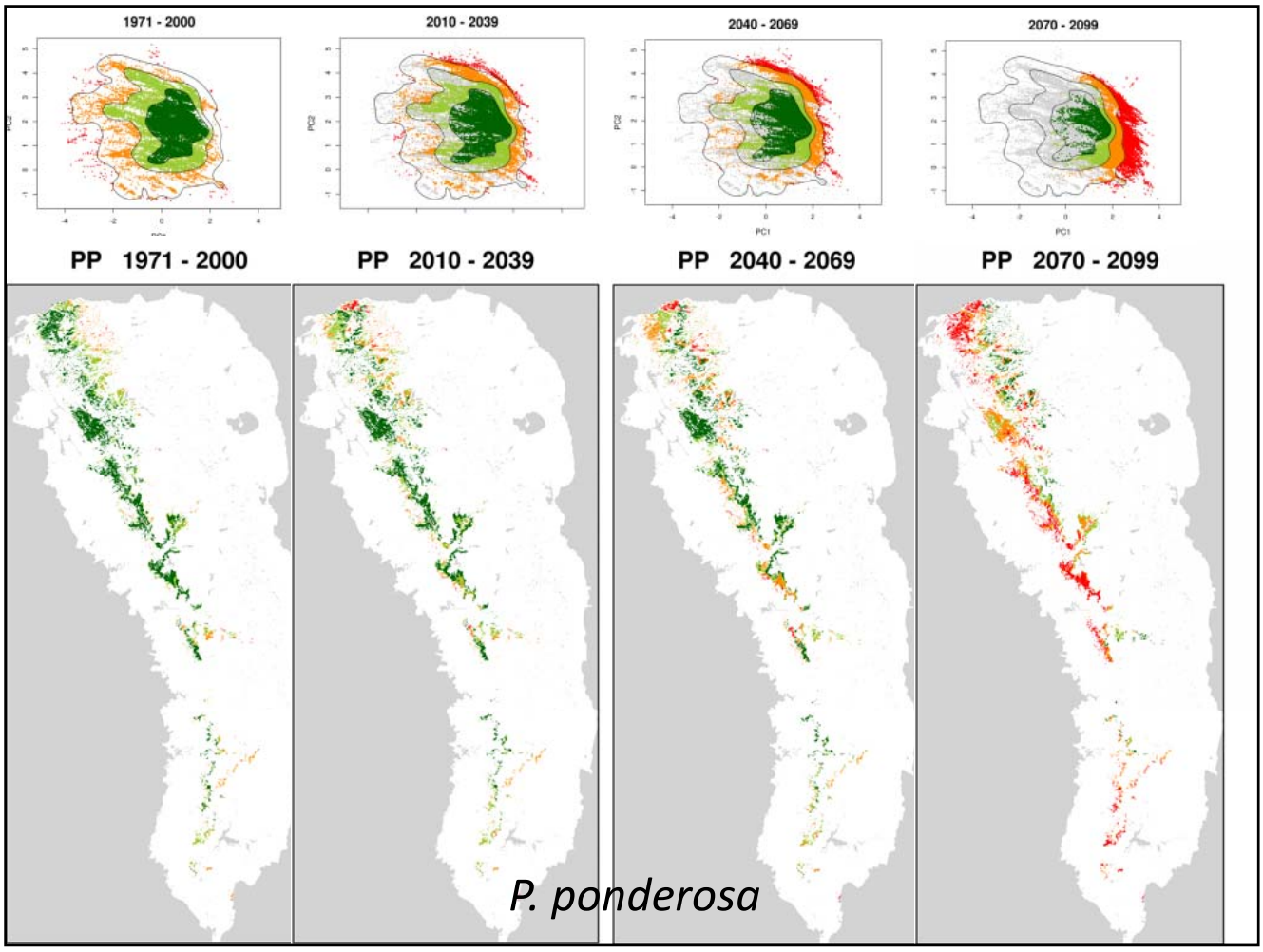
Central (<66%);
Marginal 67-90th,
Highly marginal (90-99th%), and
Outside (>99th%





D. Assess exposure under future climate

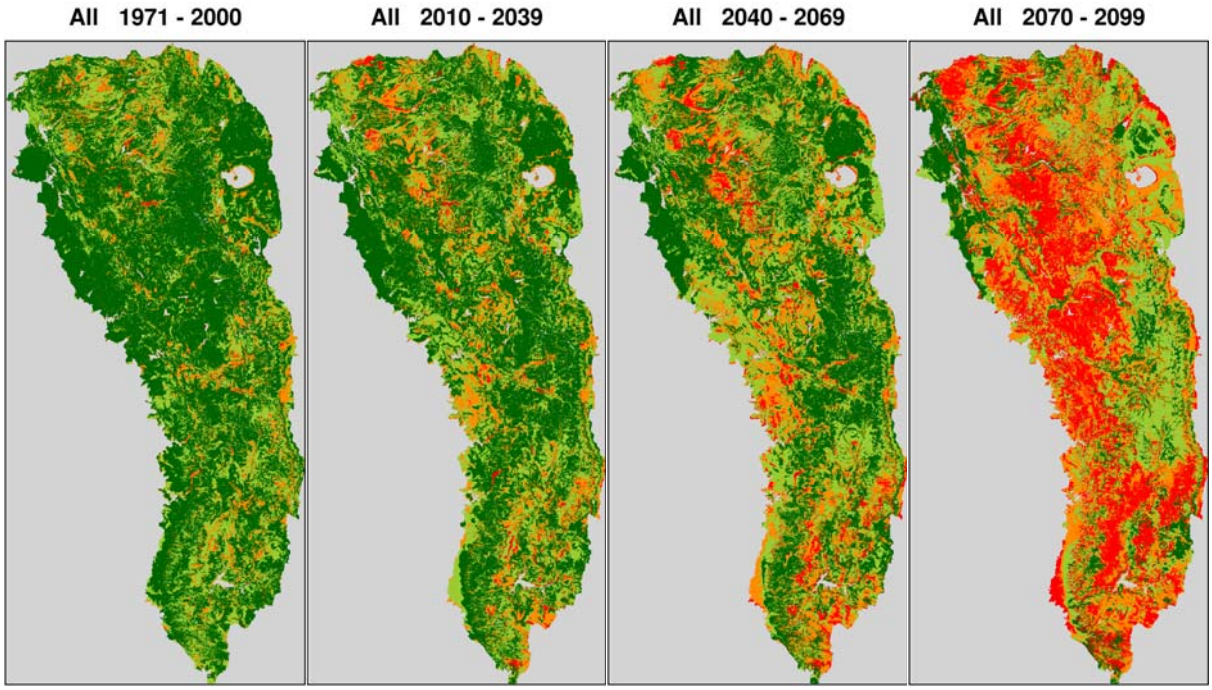


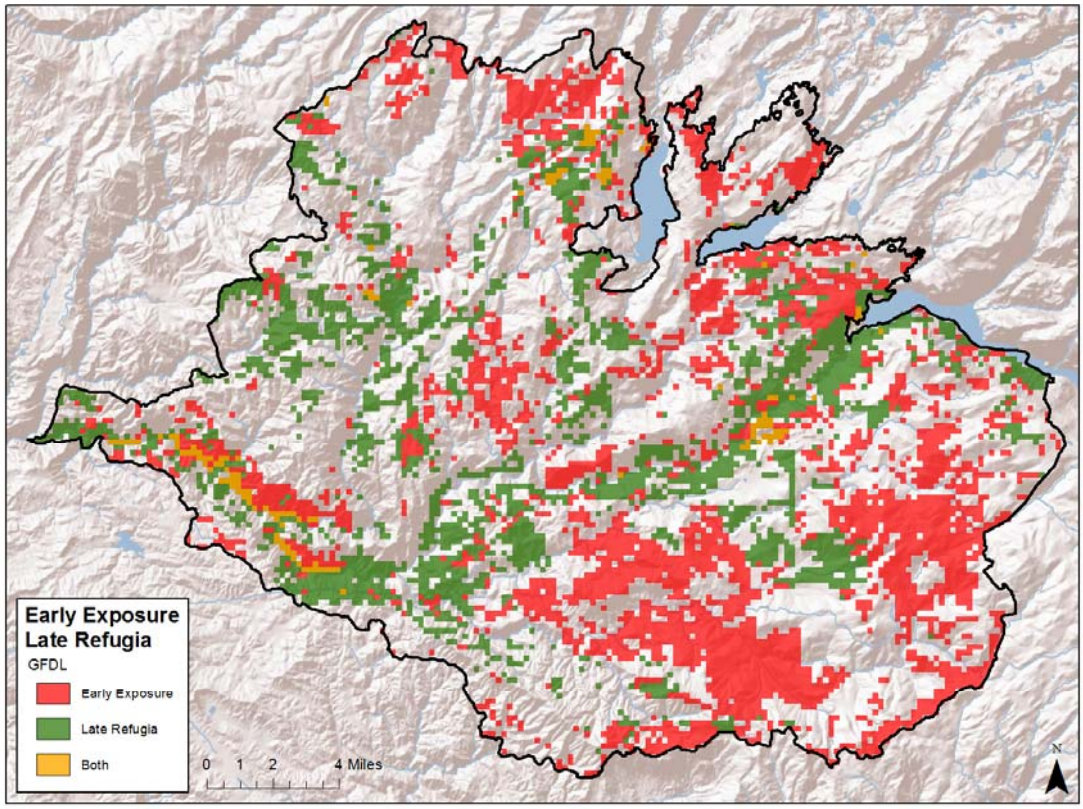

1971 - 2000
2010 - 2039
2040 - 2069
2070 - 2099
PC1
PC2
PP 1971 - 2000
PP 2010 - 2039
PP 2040 - 2069
PP 2070 - 2099
P. ponderosa

P(vegetation stress | climate change)

Overall exposure; spatial, temporal

Dark green: **secure**
Light green: **likely secure**
Orange: **moderately sensitive**
Red: **highly sensitive**





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