

Recent Wildfire Lessons Learned: What do wildfires/drought mean for lake and streams? Monitoring needs?

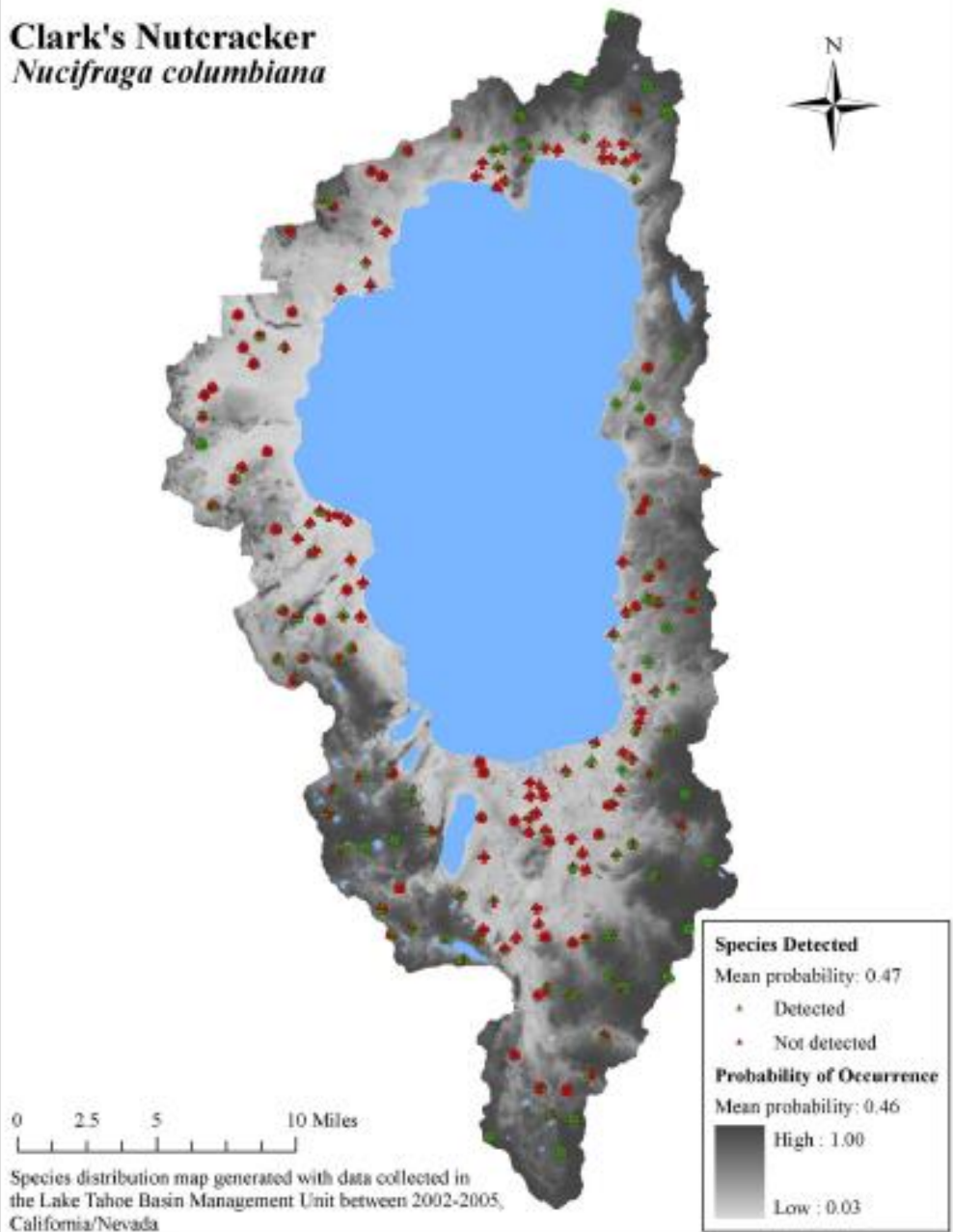
- Angela White – US Forest Service Resesarch
- Pacific Southwest Research Station
- Davis, CA



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- Angela White (USFS - PSW)

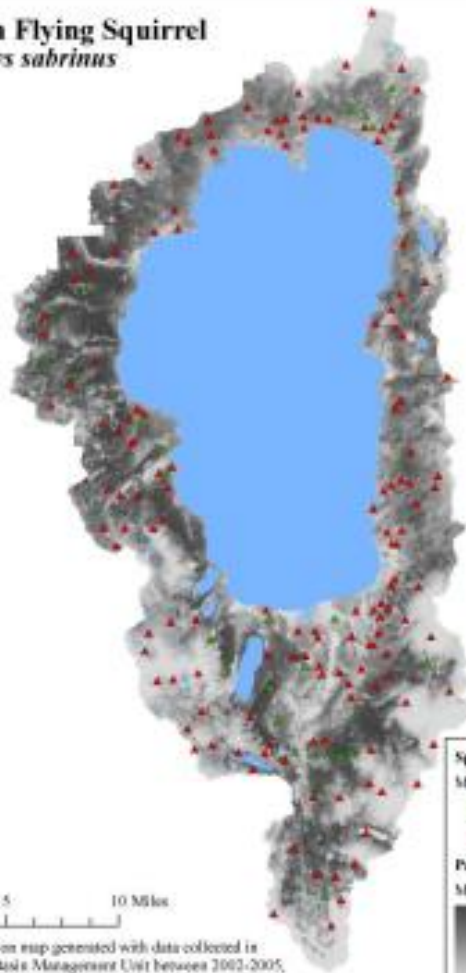
Clark's Nutcracker
Nucifraga columbiana



- Bioclimatic envelopes
 - High elevation habitats
 - Life history characteristics
 - Phenology
- Single species
- Species Richness

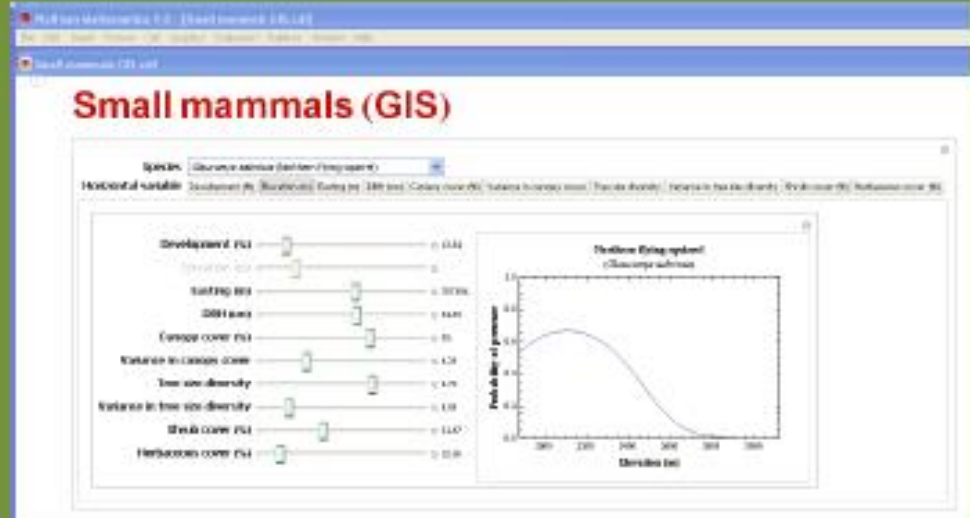
Wildlife Habitat Occurrence Models for the Lake Tahoe Basin

Northern Flying Squirrel
Glaucomys sabrinus

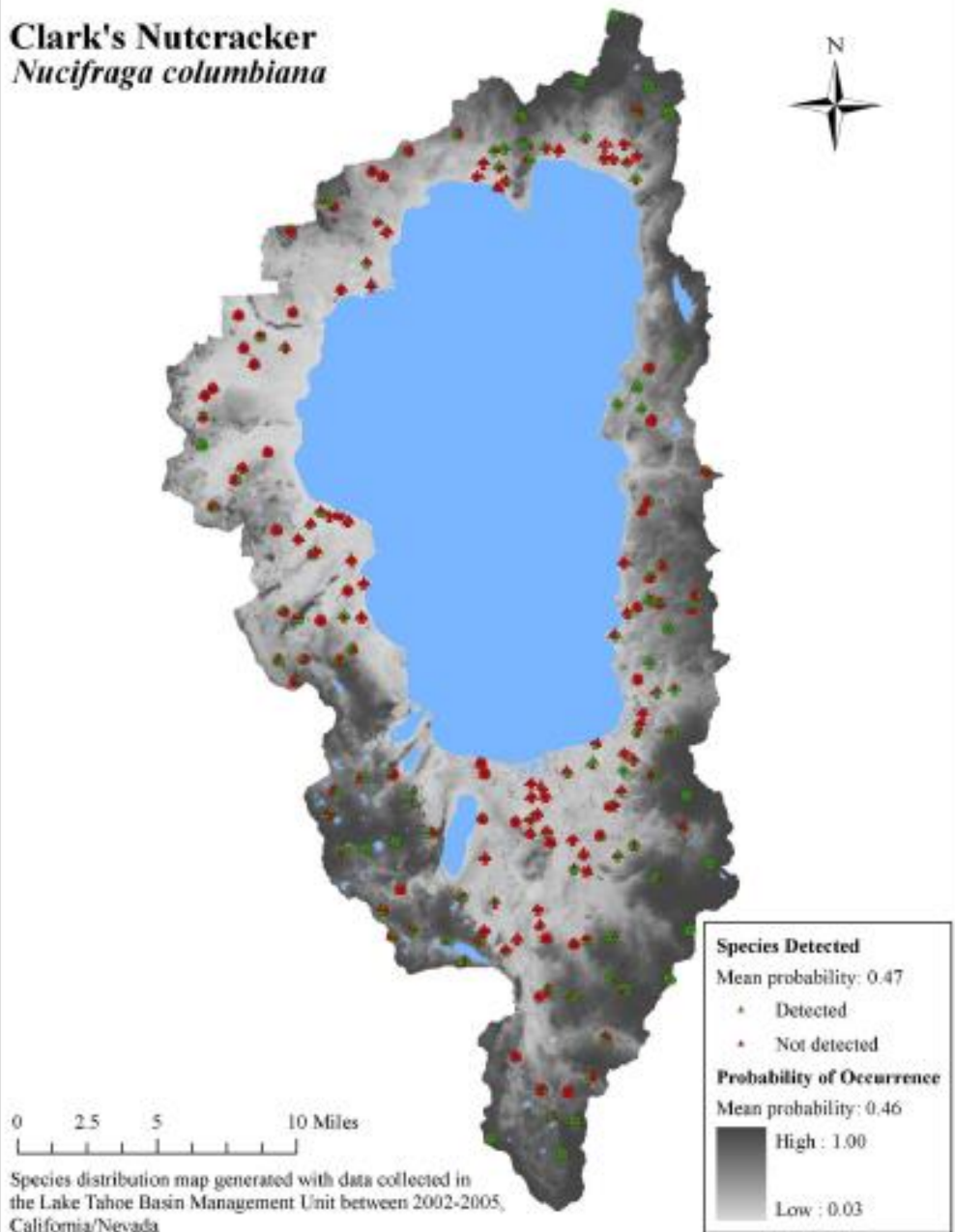


Species Detected
Mean probability: 0.15
▲ Detected
● Not detected
Probability of Occurrence
Mean probability: 0.55
High: 0.92
Low: 0.00

Species distribution map generated with data collected in the Lake Tahoe Basin Management Unit between 2002-2005, California/Nevada



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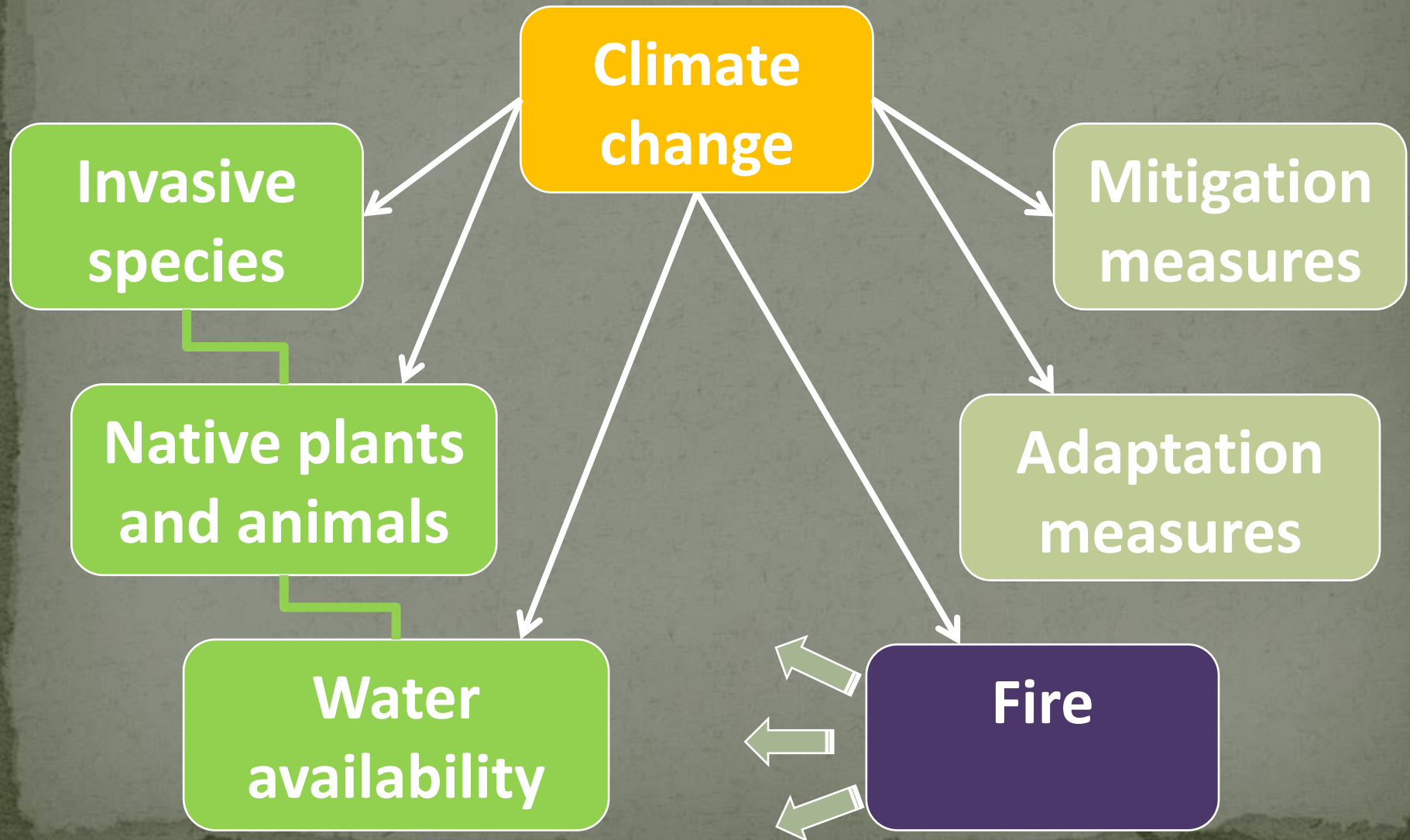


- Uncertainties
 - Species interactions
 - Predator-prey
 - Facilitation
 - Species plasticity & adaptability
 - Compound stressors
- Worst case? Range of scenarios?
 - Aided dispersal
 - Plants and animals

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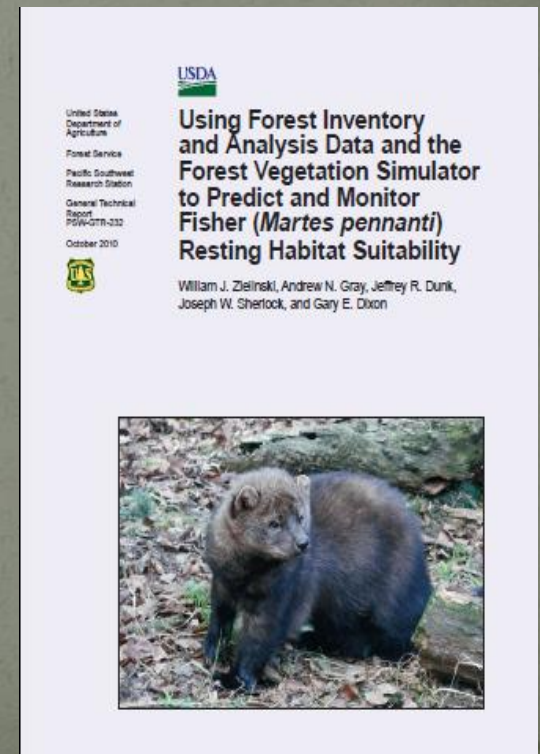
- Hugh Safford (USFS)

Indirect Effects and Feedbacks: Biodiversity Conservation



Forest Biomass Reductions: Mitigation and Adaptation

Forest restoration to reduce the risk of fire and generate biomass – risk management and trade-offs for forest dependent communities and species-at-risk (e.g., fisher, spotted owl, black-backed woodpecker)



Wildfire

Wildfire management and burn restoration practices affect and wildlife community recovery and fire-dependent species, such as the black-backed woodpecker

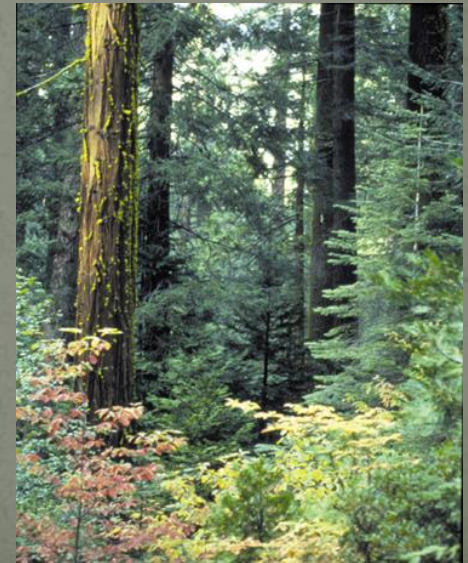


Angora Fire Wildlife Recovery Study
2008-2010

Final Report
April 2011

California Tahoe Conservancy &
South Nevada Public Lands Management Act







Brewer's Blackbird



Hairy Woodpecker
Picoides villosus

