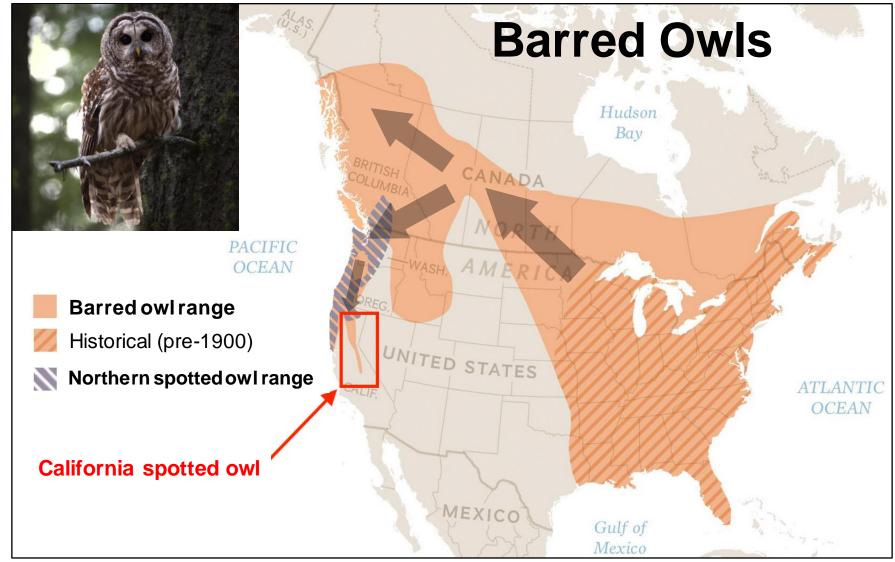
Early Barred Owl management in the Sierra Nevada can prevent California Spotted Owl extirpations

Daniel F. Hofstadter

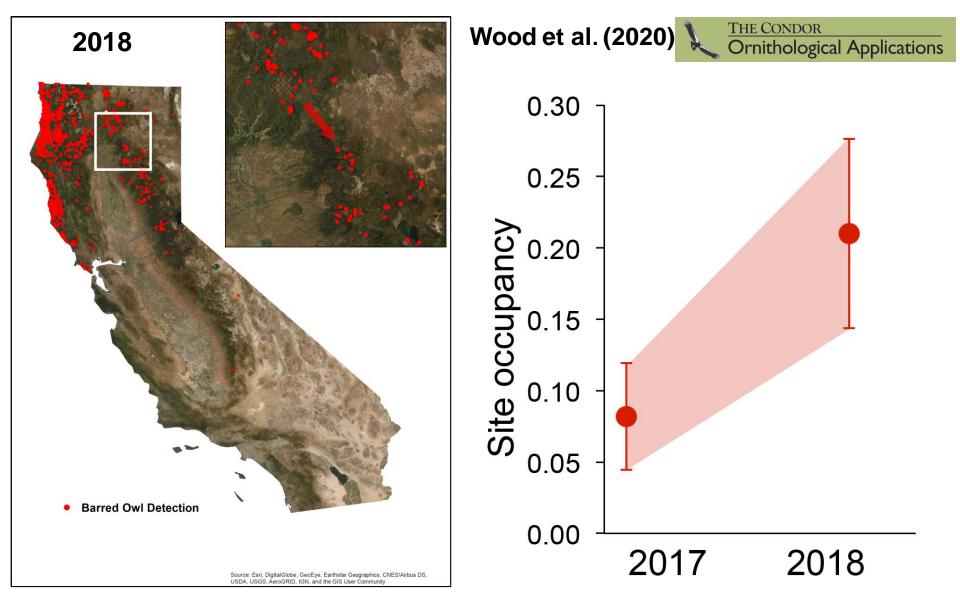
<u>co-authors:</u> Nicholas F. Kryshak, Connor M. Wood, Brian P. Dotters, Kevin N. Roberts, Kevin G. Kelly, H. Anu Kramer, Sarah C. Sawyer, William J. Berigan, John J. Keane, Paula A Shaklee, M. Zachariah Peery







National Geographic 2014



 Can we effectively reduce the Barred Owl population in the Sierra Nevada?
Do California Spotted Owls benefit from Barred Owl removals?

Acoustic Monitoring

Wood et al, 2019

+ Active Surveys

Sierra Pacific Industries

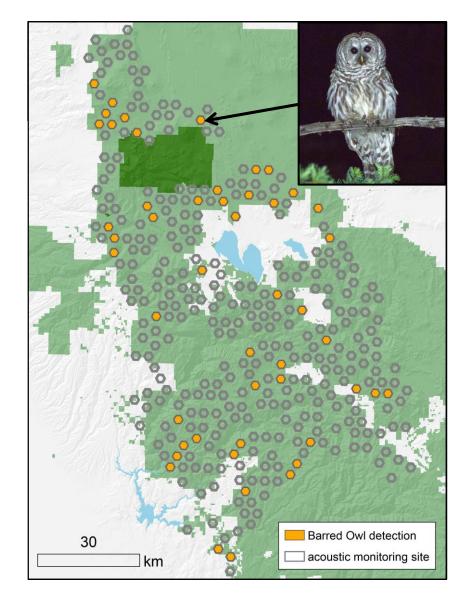
Lassen Demography

Institute for Bird Populations

Eldorado Demography

US Forest Service

National Park Service



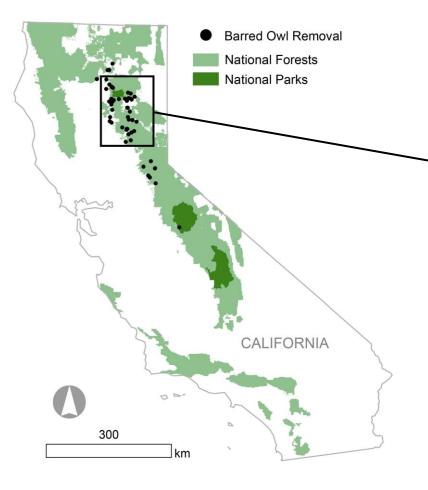
Lethal Removal

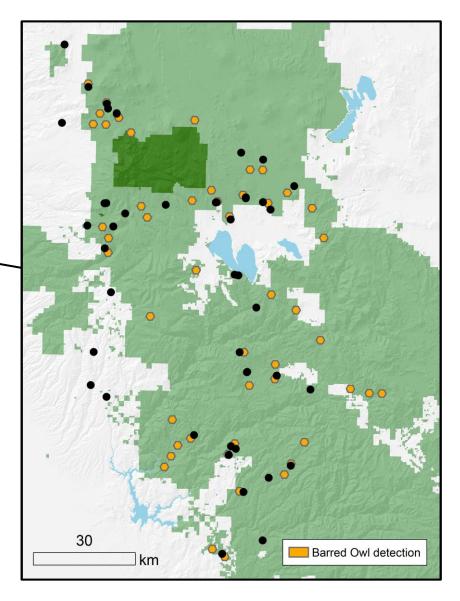


Barred Owl

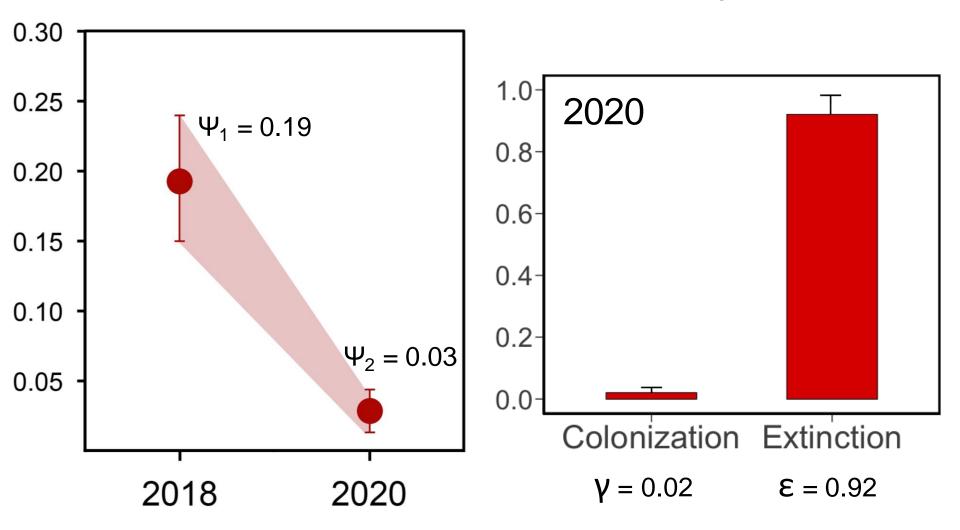
Barred Owl Removals

76 total in Sierra Nevada

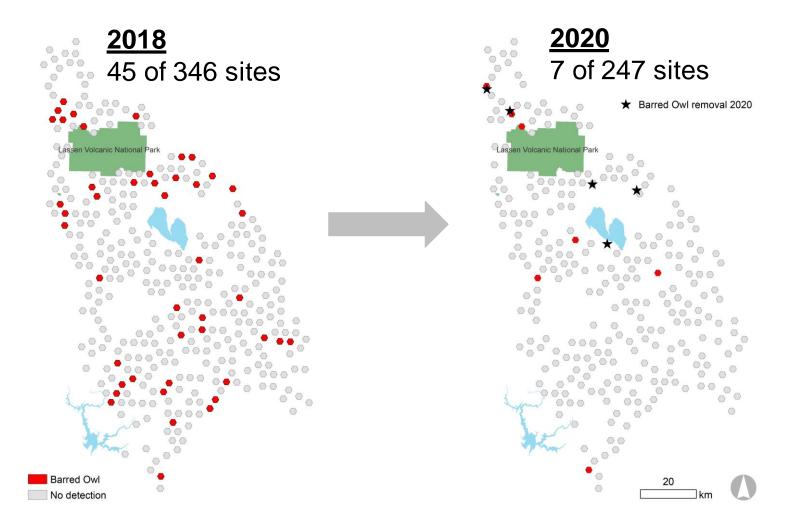




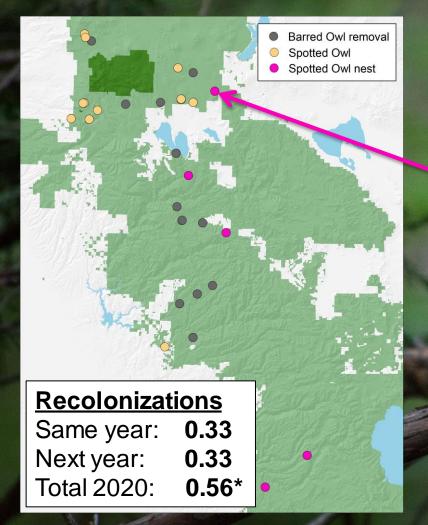
Barred Owl Occupancy



The importance of <u>acting early</u>



Effects on California Spotted Owls



Spotted Owls nested at 5 of those 15 sites (**33%**)

Paula Shaklee

Conclusions and Future Studies

- Barred Owl removals are effective at low densities
- Similar to Diller et al. (2016) but at a larger scale
- California Spotted Owl extirpation can be prevented
- Continue monitoring Barred and Spotted Owls
- Study Barred Owl dispersal via GPS and Genetics
- May not be too late in California's Coast Range

Thank You!

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