

Jodi Brandt

Assistant Professor

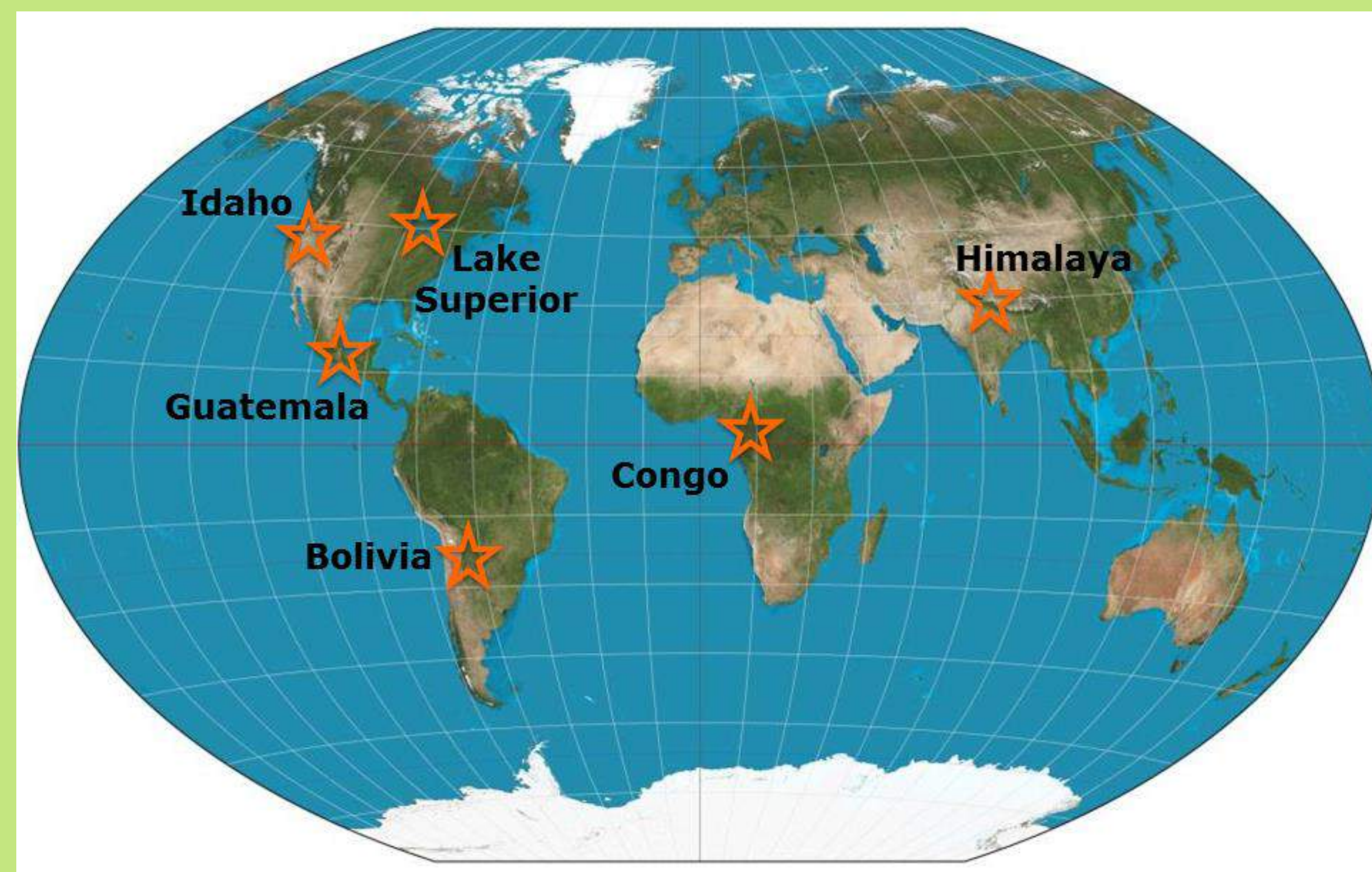
Human-Environment Systems Initiative



Background

- Postdoc: Dartmouth College
- PhD: University of Wisconsin
- MS: University of Maryland
- Fulbright Fellow
- Peace Corps Volunteer
- BS: Yale University

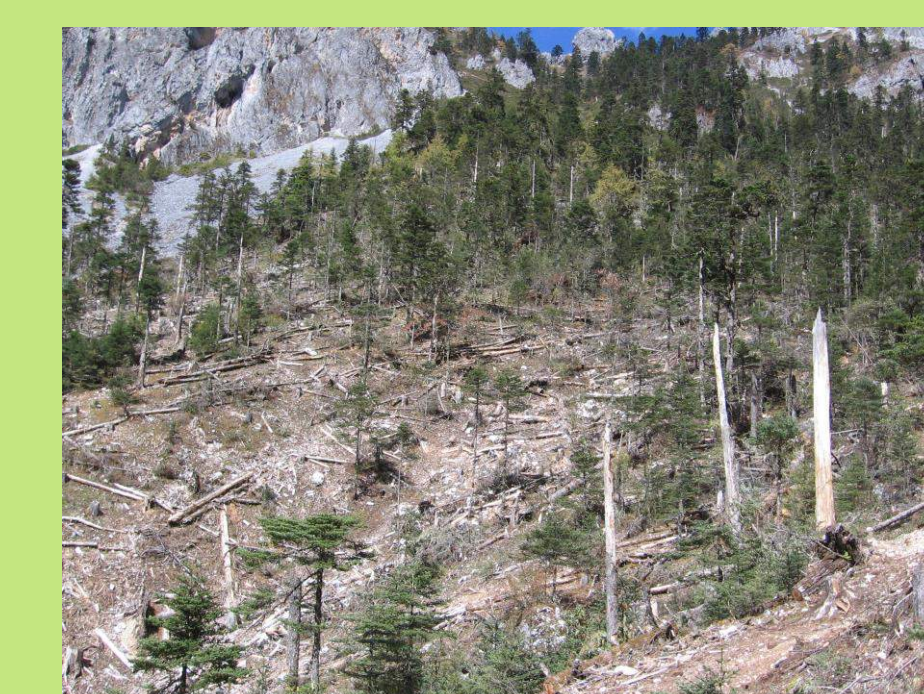
Study Sites



Research Questions

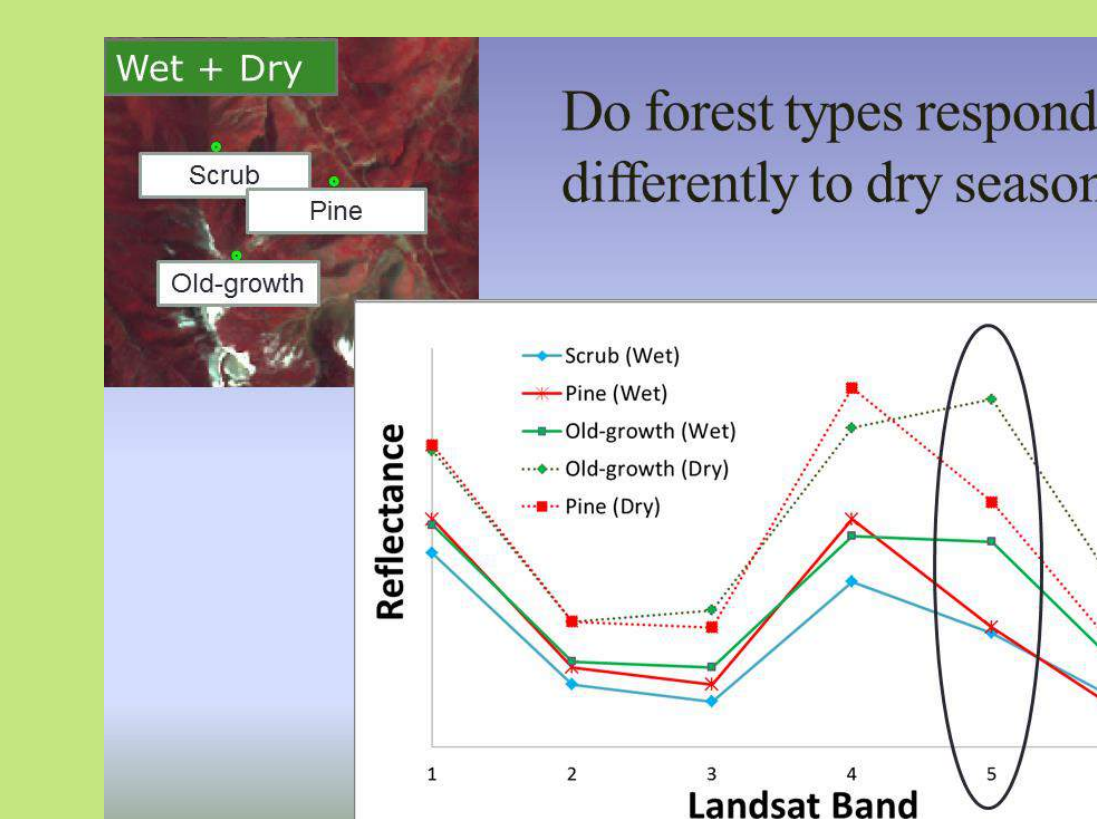
How is the landscape changing?
What are the drivers of those changes?
What are impacts of change for biodiversity?

Land-use and Climate Change in the High Himalaya



Accelerated logging of old-growth forests

Multi-temporal Landsat



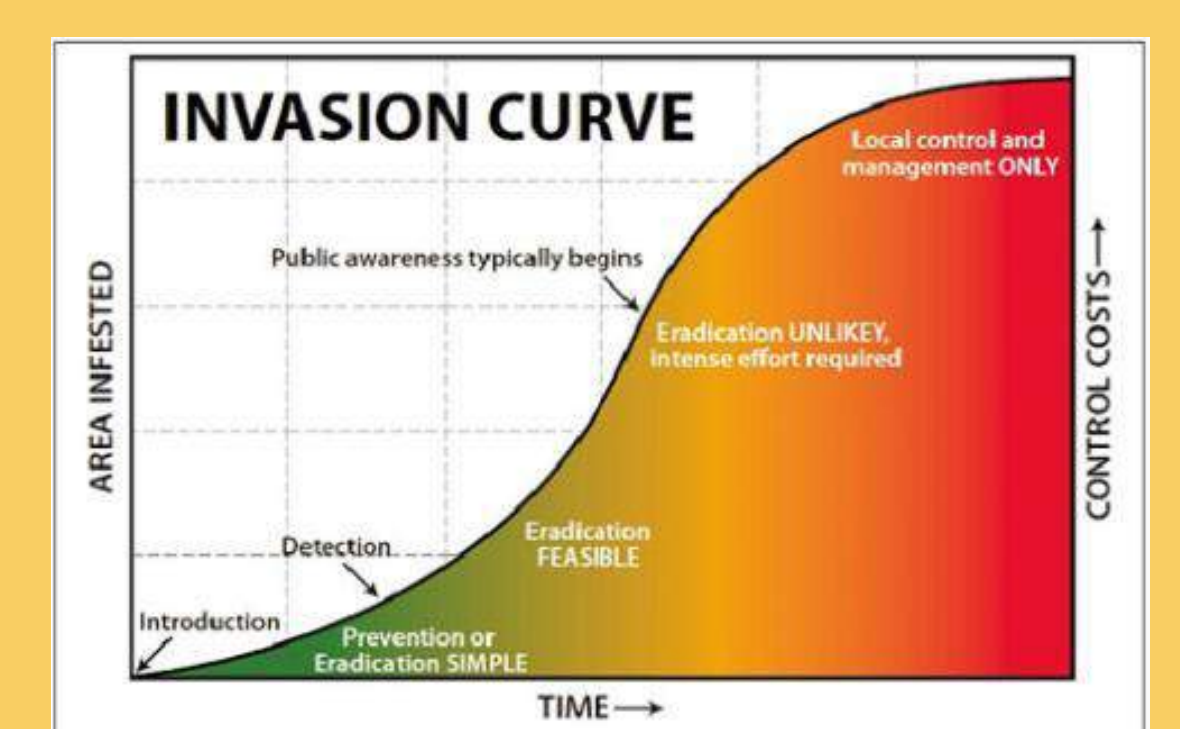
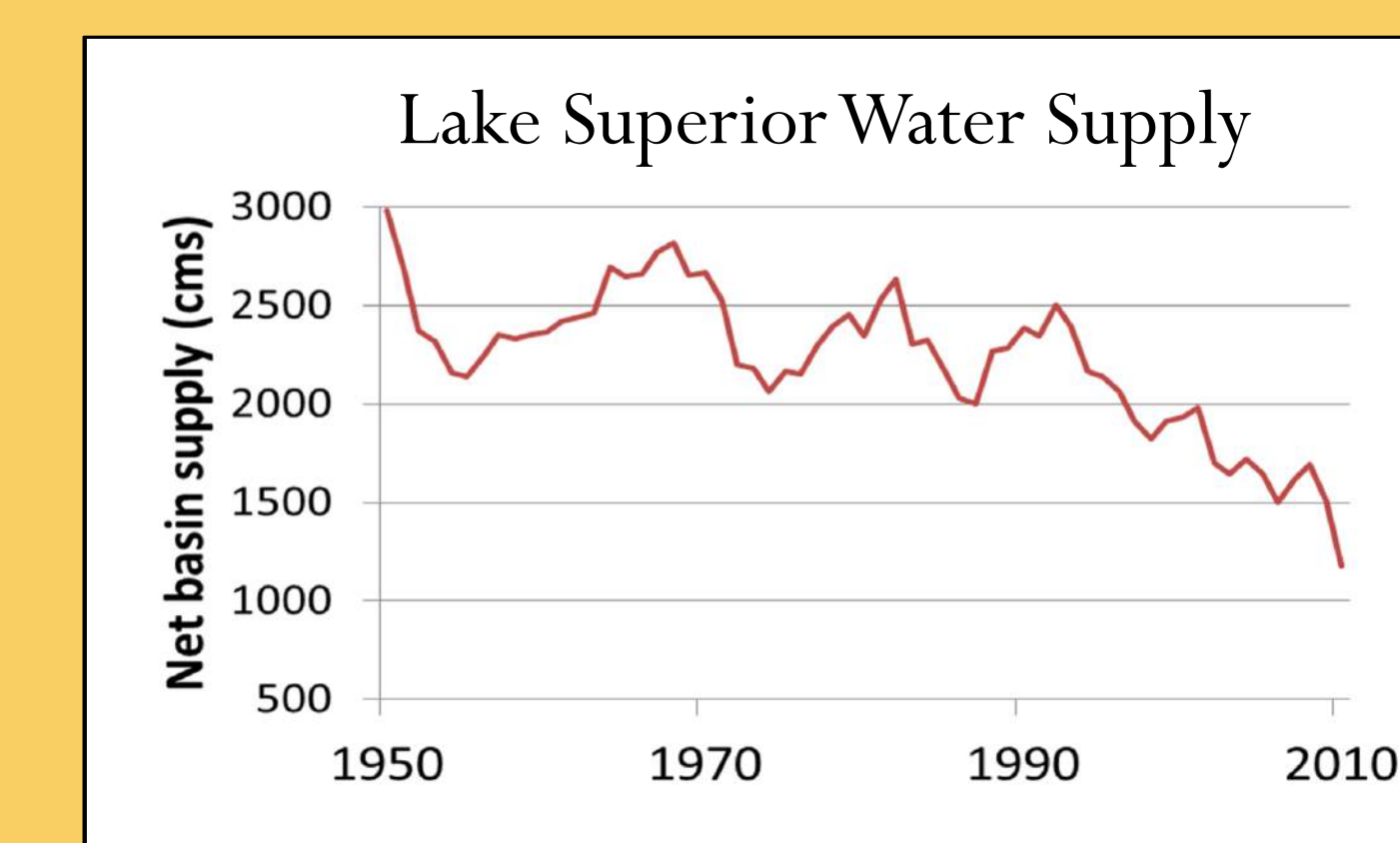
Shrubs encroaching into Alpine meadows

Invasive Species in Great Lakes Coastal Wetlands



Team-based research and action

Declining Water Levels



Obstacles to Early Detection and Eradication

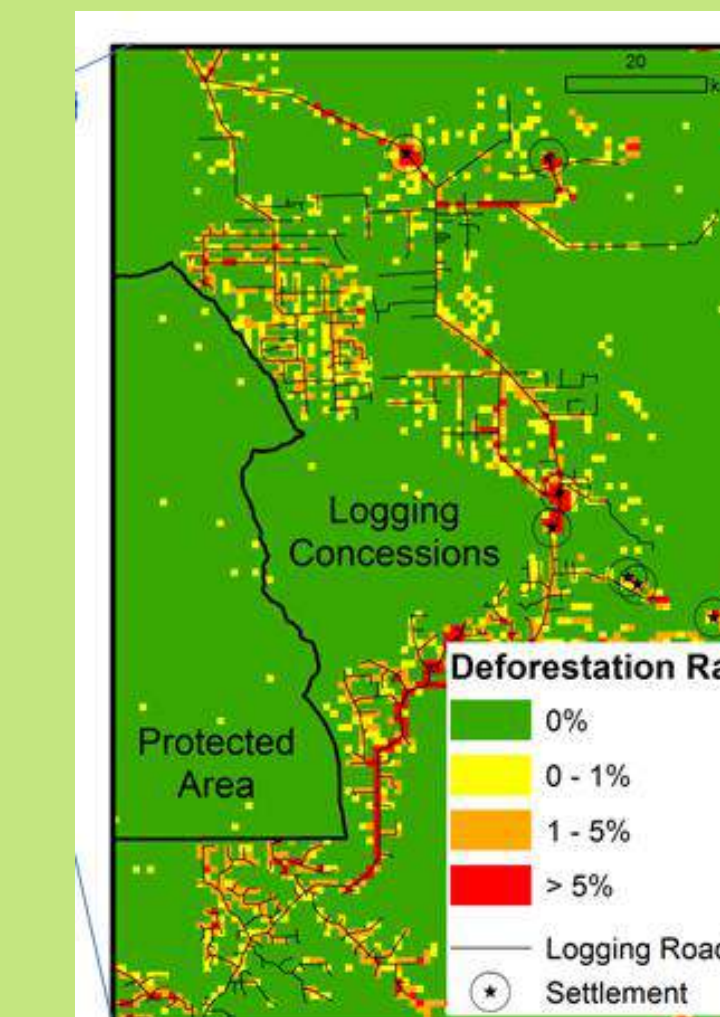
Current and Past Funding Sources

- NASA Earth Sciences
- NASA Land Cover Land Use Change (LCLUC)
- NSF Coupled Natural-Human Systems
- NSF Doctoral Dissertation Enhancement Program
- NSF IGERT
- Dartmouth Neukom CompX
- Fulbright Fellowship
- TNC – Bolivia

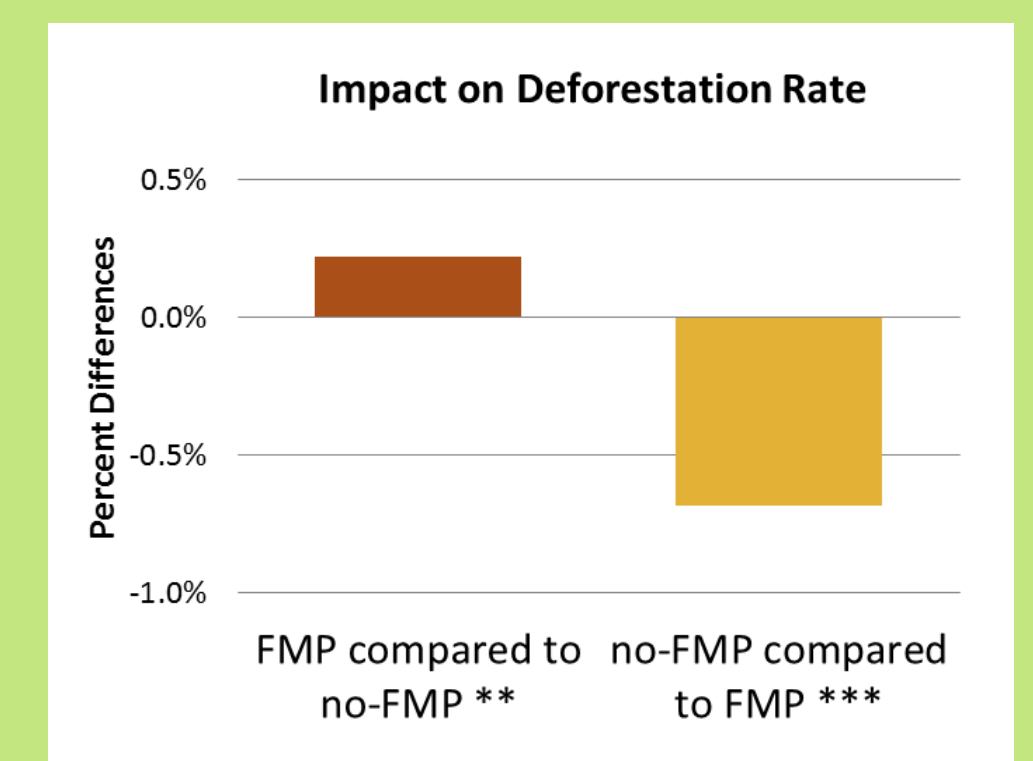
Industrial Logging in the Congo Basin



African Mahogany



“Sustainable” Forest Policy



Econometric Policy Impact Analysis