

Habitat Mapping & Current Status of Canada Lynx in Colorado



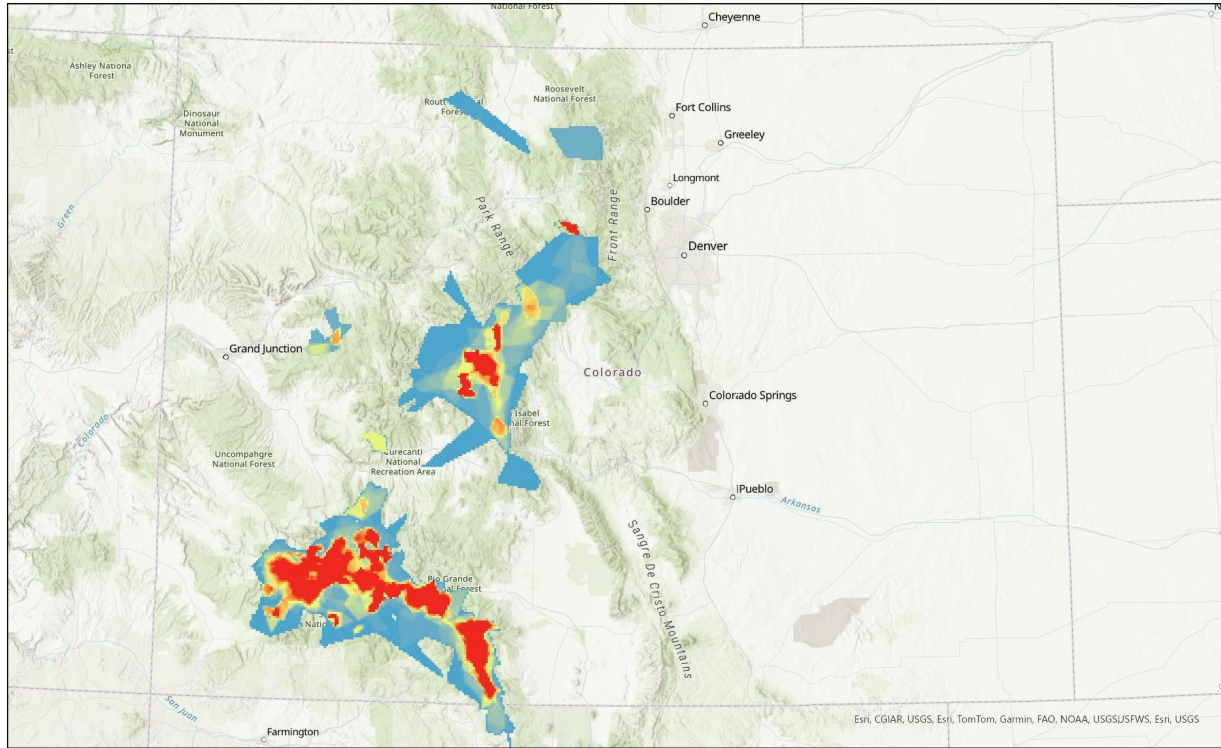
Photo by Steve Sunday

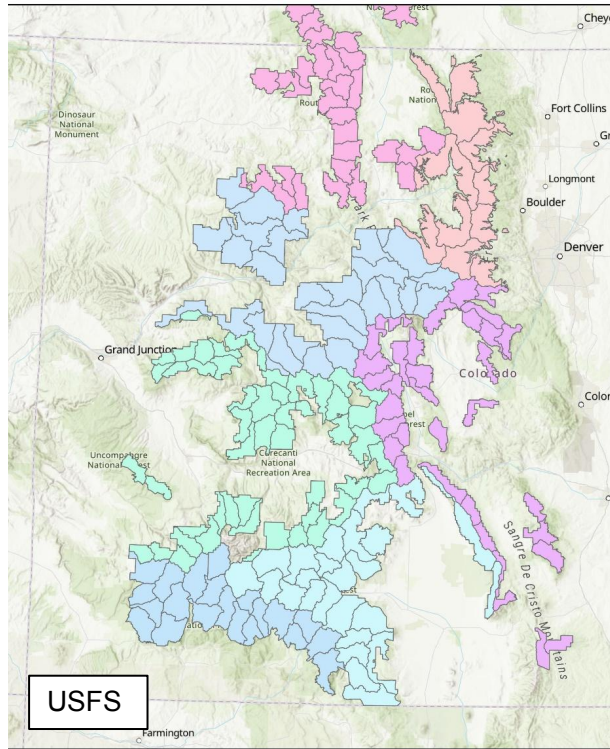
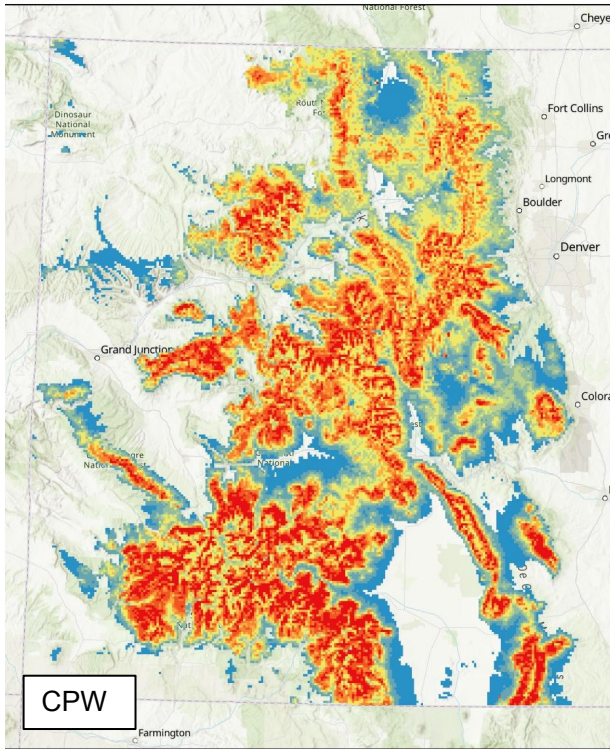
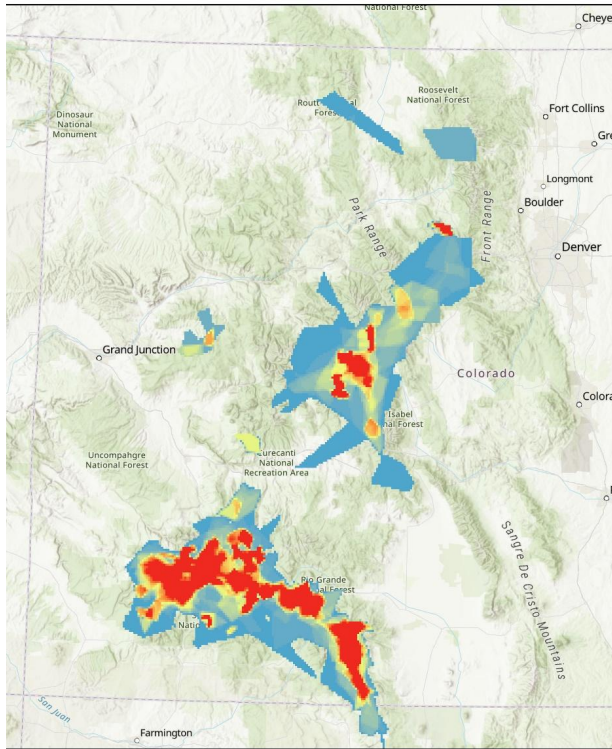
Habitat Mapping for Canada Lynx in Colorado



Photo by Steve Sunday

Areas of High Lynx Use (1999-2011)





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Habitat Mapping (2024)

- Better lynx data
 - GPS collars (n = 18 lynx, 2010-2013)
- Different, better (?) habitat covariates
 - Climate, anthropogenic
- Newer, better analytical tools
 - Ensemble approach

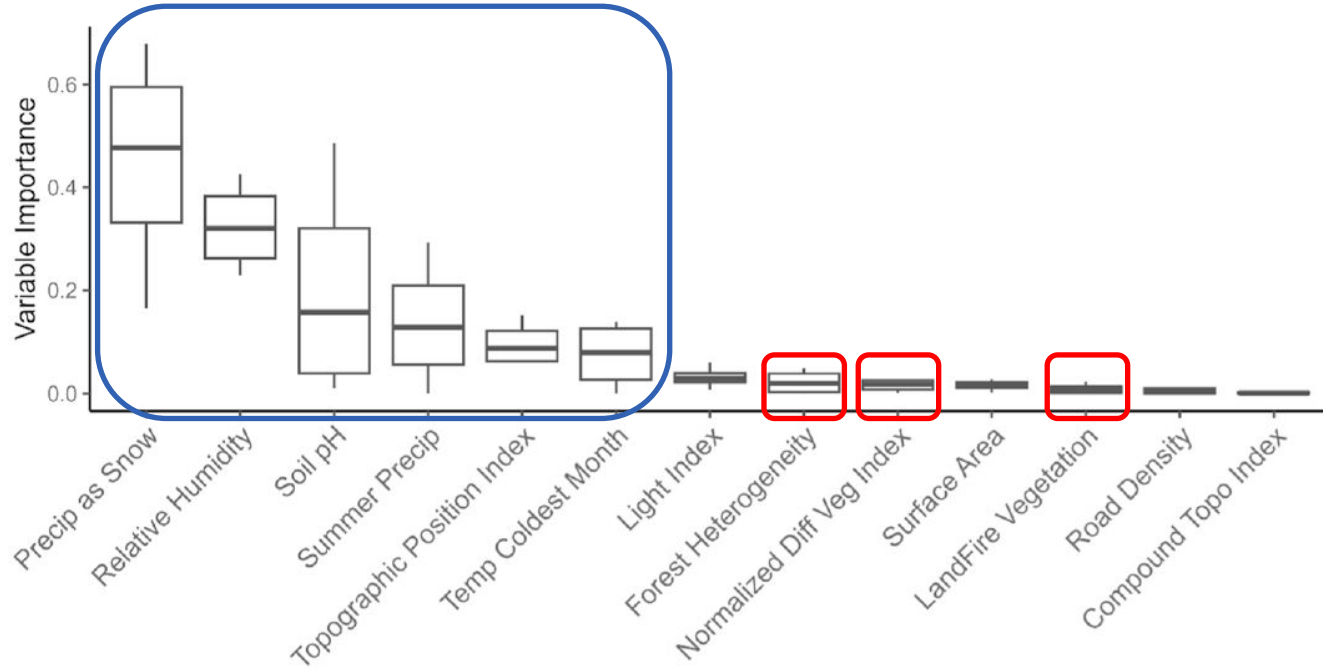


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Habitat Mapping (2024): RESULTS

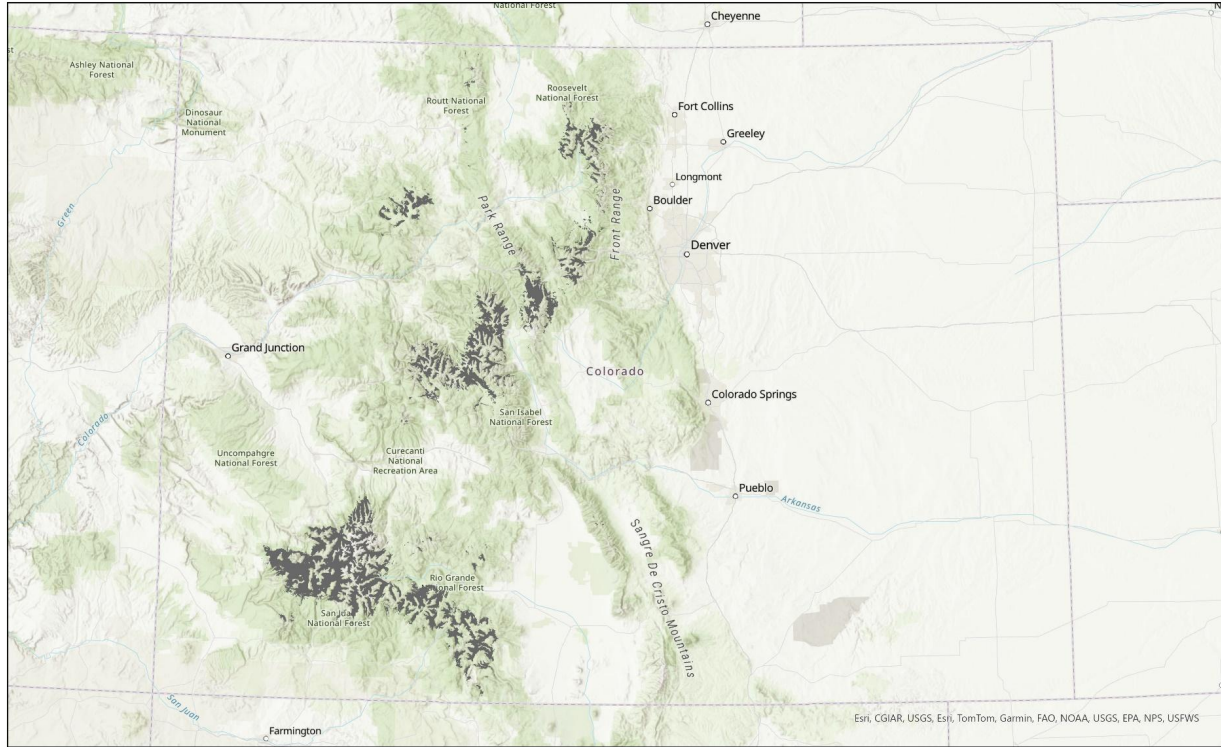


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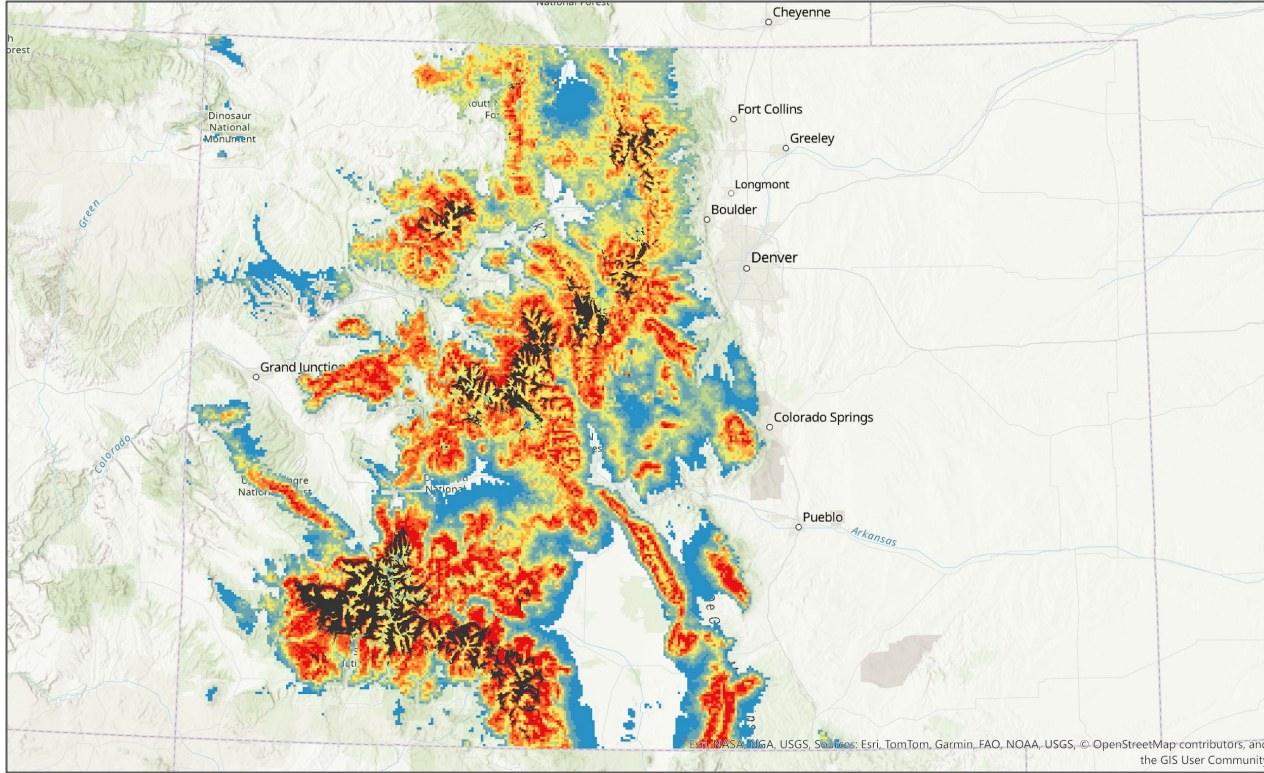
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Habitat Mapping (2024) - RESULTS



Habitat Mapping (2024) - RESULTS



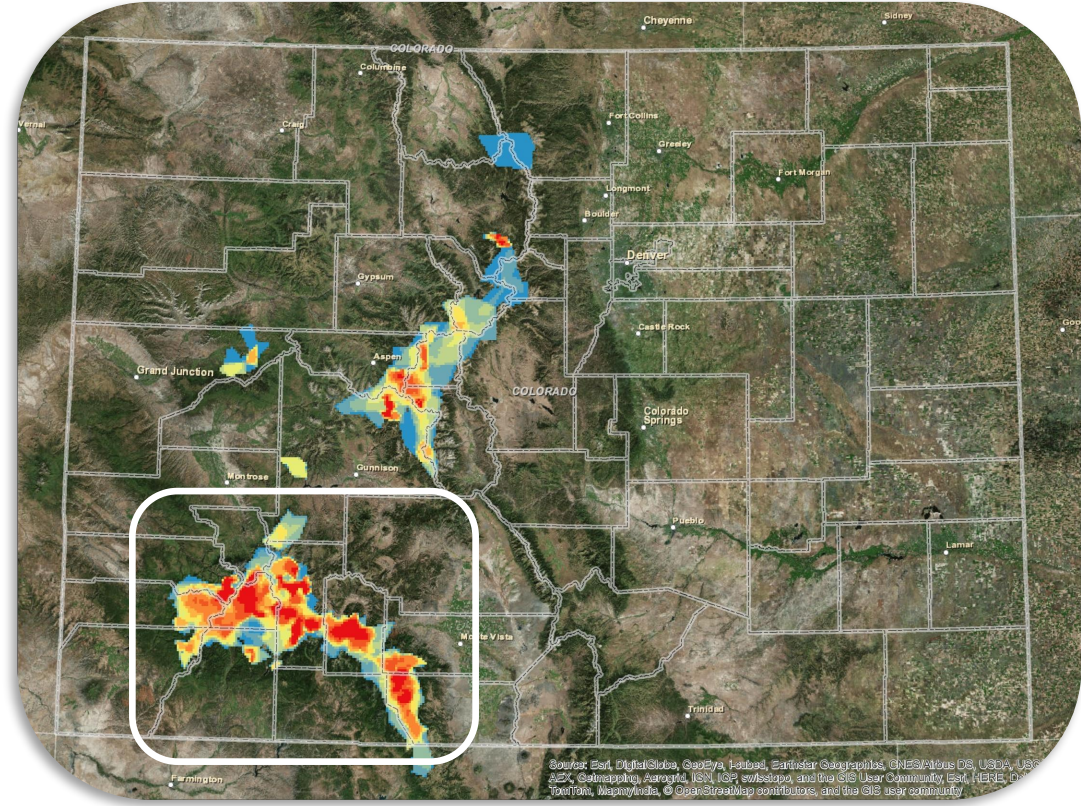
Current Status of Canada Lynx in Colorado



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Monitoring

- Dynamic Occupancy
 - Annually
 - Trend



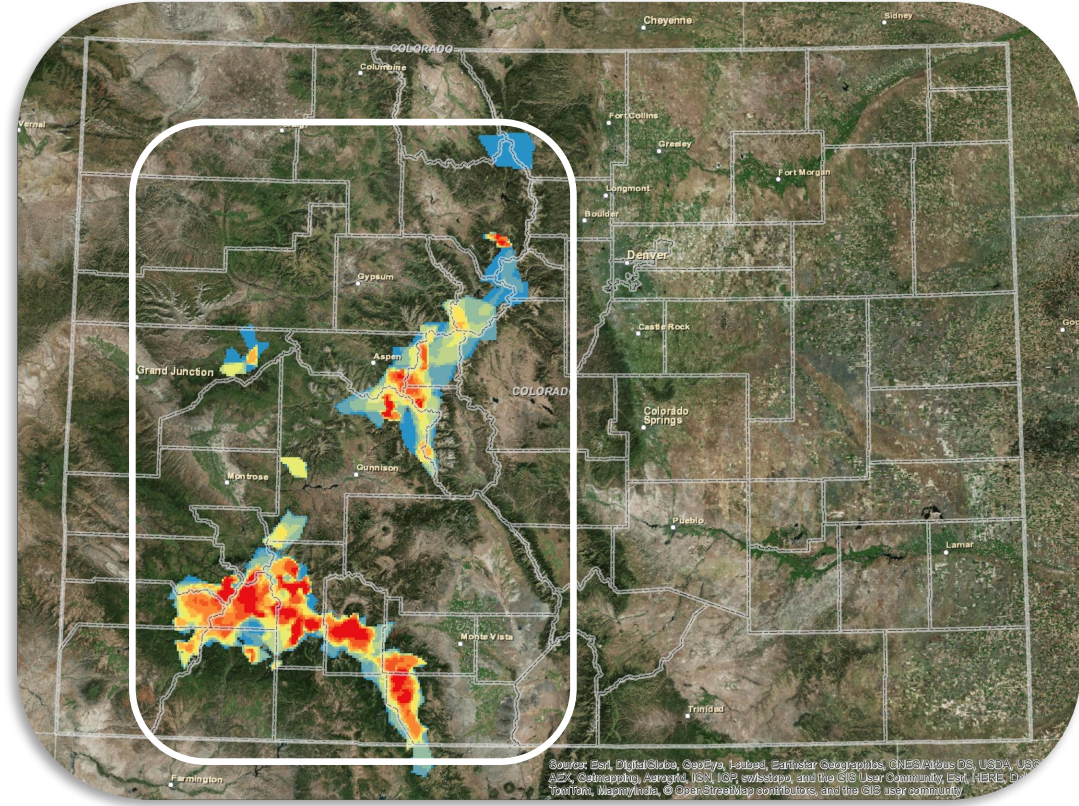
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Monitoring

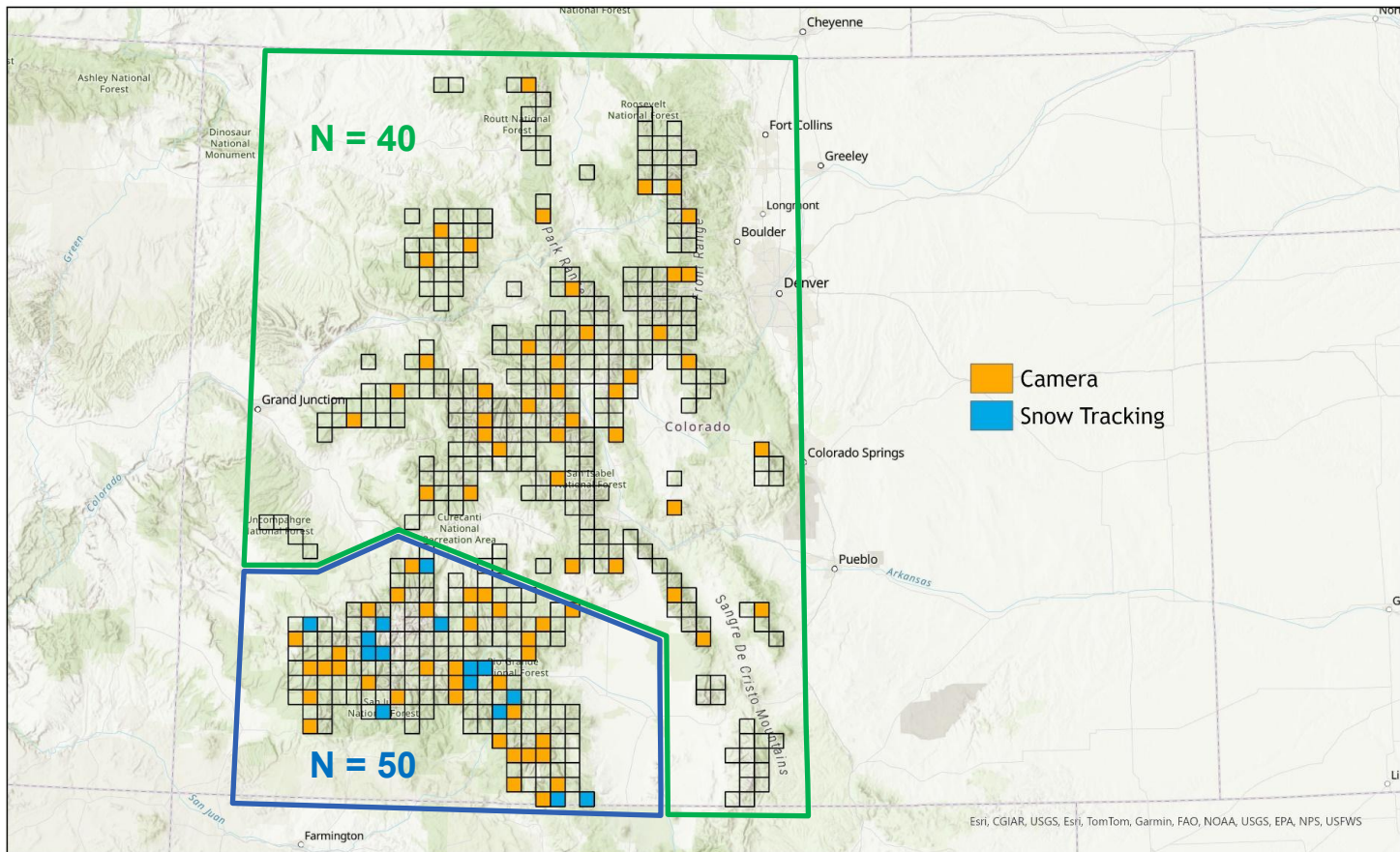
- Spatial Occupancy
 - Every 5 years
 - Distribution



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Model Set (Annual Monitoring)

- Stable dynamics (exact same units used each year)
- Equilibrium dynamics
 - Proportion of units used is the same each year; actual units used can change
- Non-equilibrium dynamics
 - Both the proportion and actual units used changes each year
- Sine wave (cyclicality)
 - Test 8, 9, and 10 year periodicity

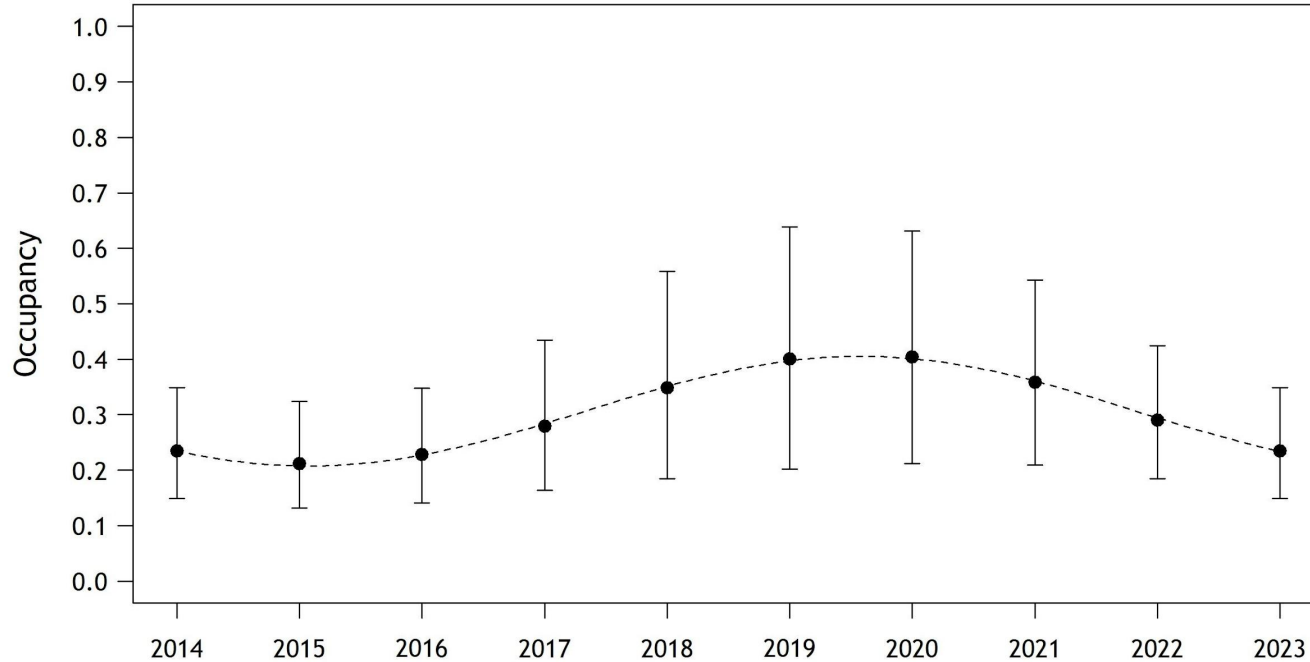


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Annual Monitoring (2014-2023)

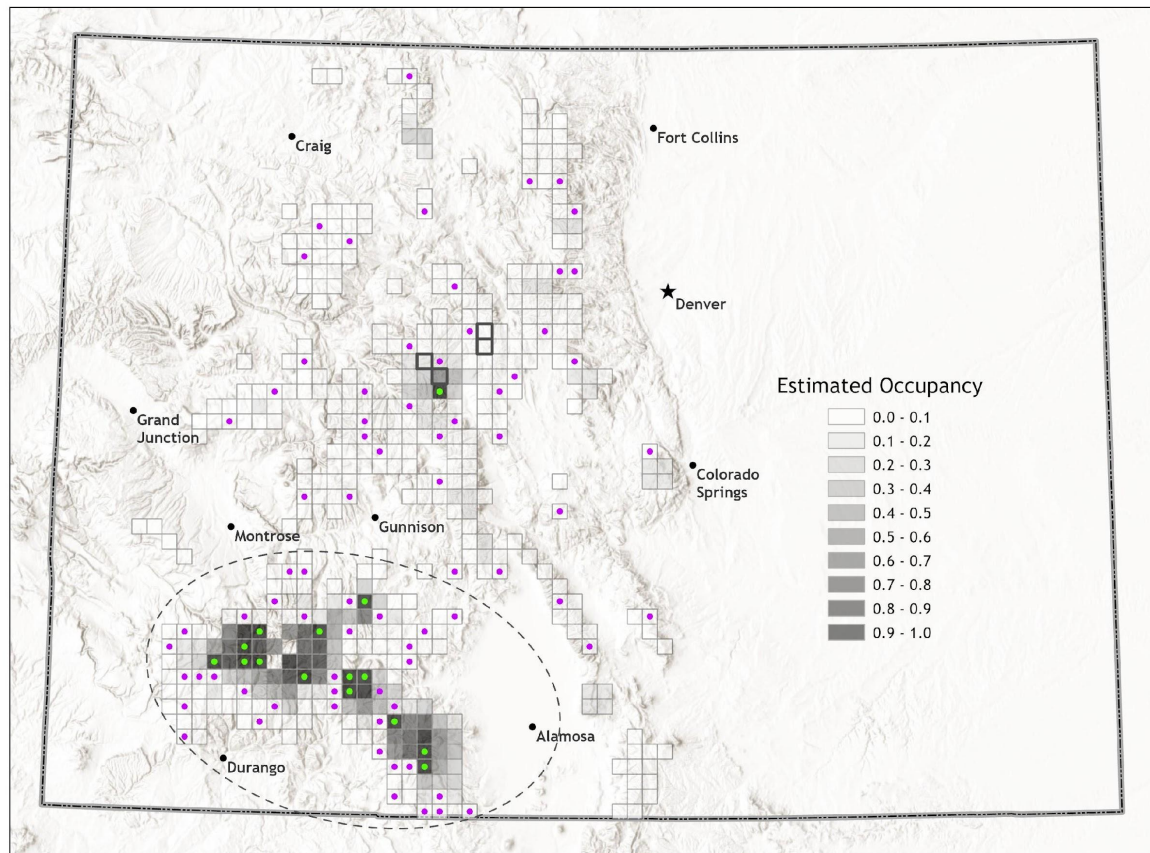


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Statewide Monitoring (2023-24)



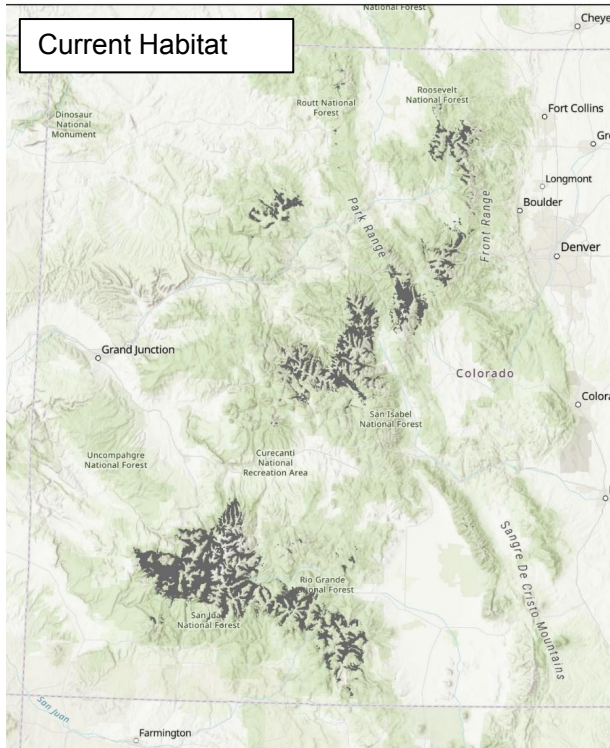
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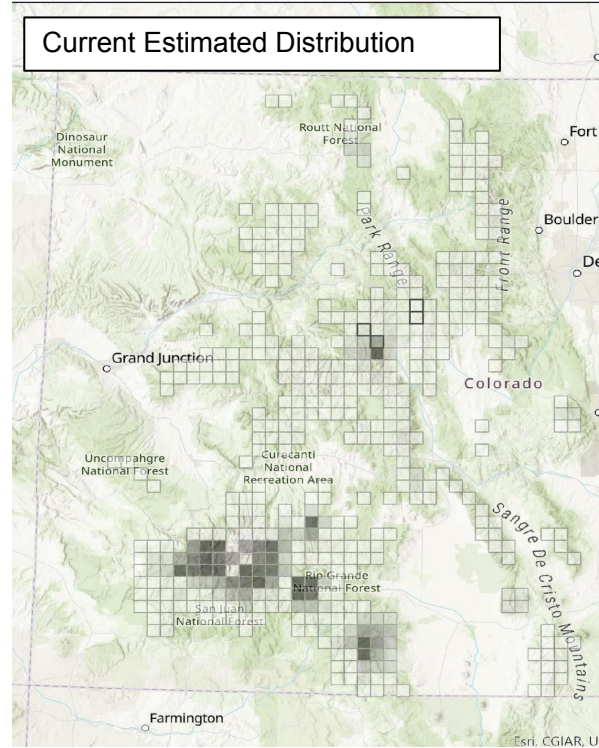
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Summary

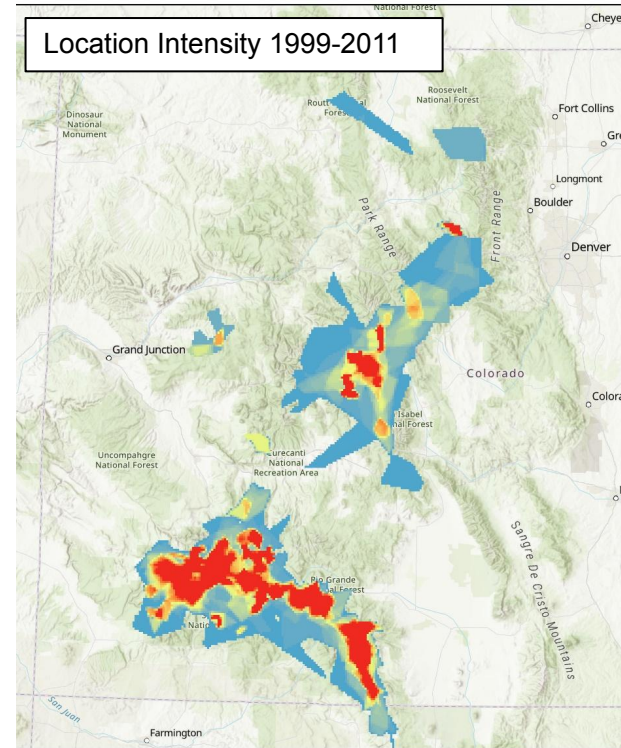
Current Habitat



Current Estimated Distribution



Location Intensity 1999-2011



Summary

- 25 years post-reintroduction
 - Lynx have told us where the best habitat and where they want to be
 - Interior San Juans and central Sawatch, maybe some peripheral places
 - Focus conservation in these areas
 - Do more/better
 - Wildfire prevention/mitigation?
 - Keep tabs on winter recreation
 - Elsewhere, management of forests for lynx is less critical



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Thank you!!

