Camera trap monitoring of human-wildlife interactions



The Wildlife Coexistence Lab



Studying coexistence with wildlife where we live, work and play



Mitigating conflicts



Sharing working landscapes



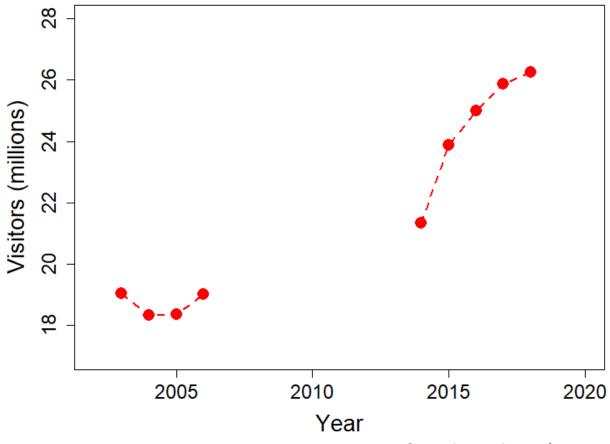
Keeping parks healthy

British Columbia's parks under pressure



Photo: izzabelle.co

Total Visitors to BC Parks



People vs. Wildlife?



Hikers show their "Day-Use" pass to James Tammaro of Cypress Mountain before they can start their day at Cypress Provincial Park in West Vancouver on Monday. PHOTO BY RICHARD LAM /PNG $Vancouver\ Sun$



Vango Photos

British Columbia Eva Uguen-Csenge · CBC News · Posted: Apr 30, 2021

Recreation groups call on B.C. Parks to scrap daypass system ahead of summer 2021

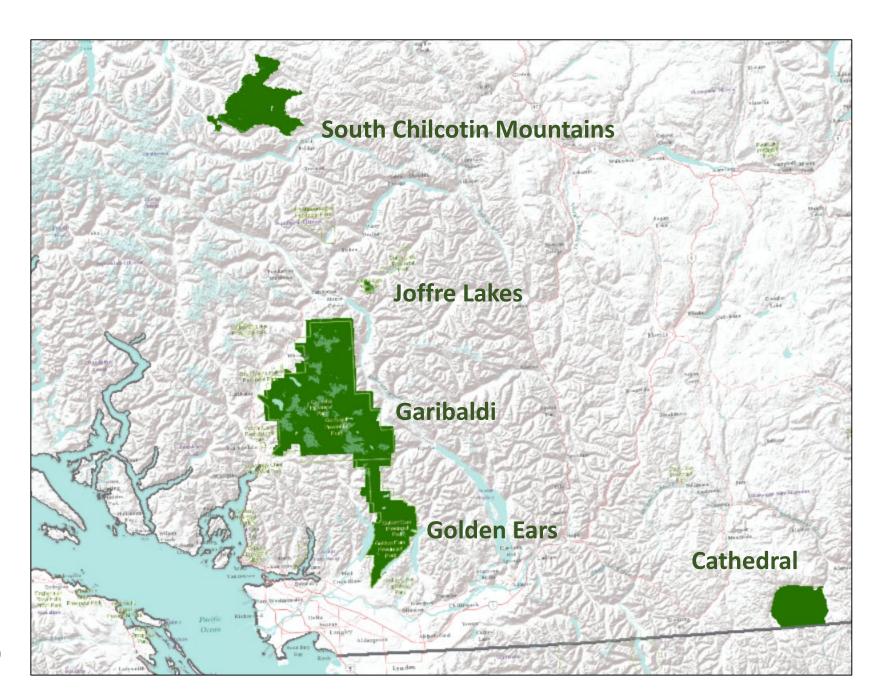
WildCo Surveys in SW BC Parks

- 5 Parks
- 217 camera traps
- 2018 present
- 3+ million images ...









Does recreation displace wildlife?





How might recreation affect wildlife?

No Effect Spatial Displacement Temporal Displacement

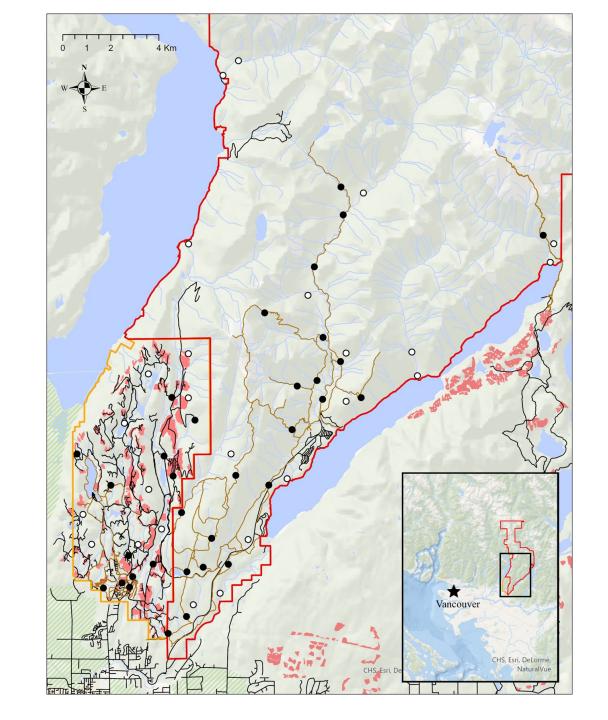
How might recreation affect wildlife?

Variable Effect Spatial Displacement Temporal Displacement



Michael Procko, MSc project

- 58 cameras
- On/off trail
- Park & Malcolm Knapp Research Forest
- May 2019 Sep 2021
- High human use1 million photos



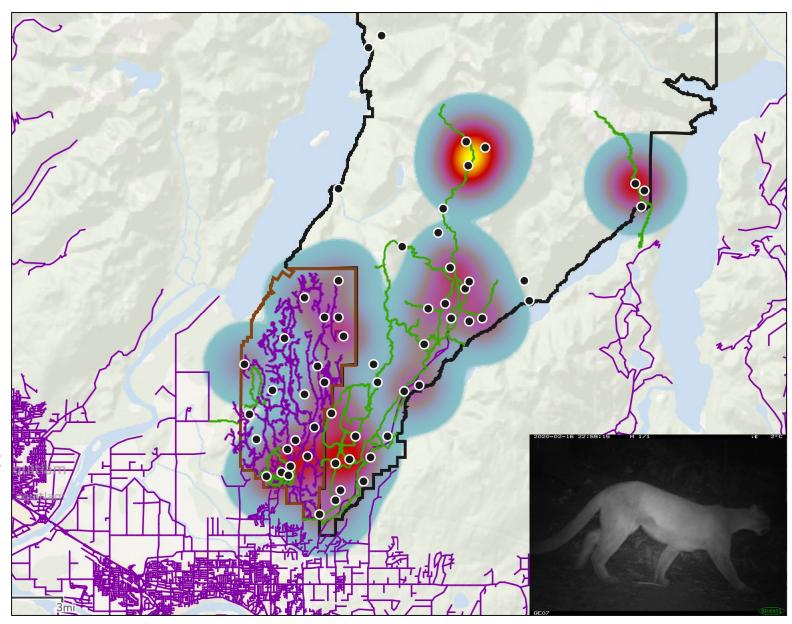






Michael Procko, MSc project

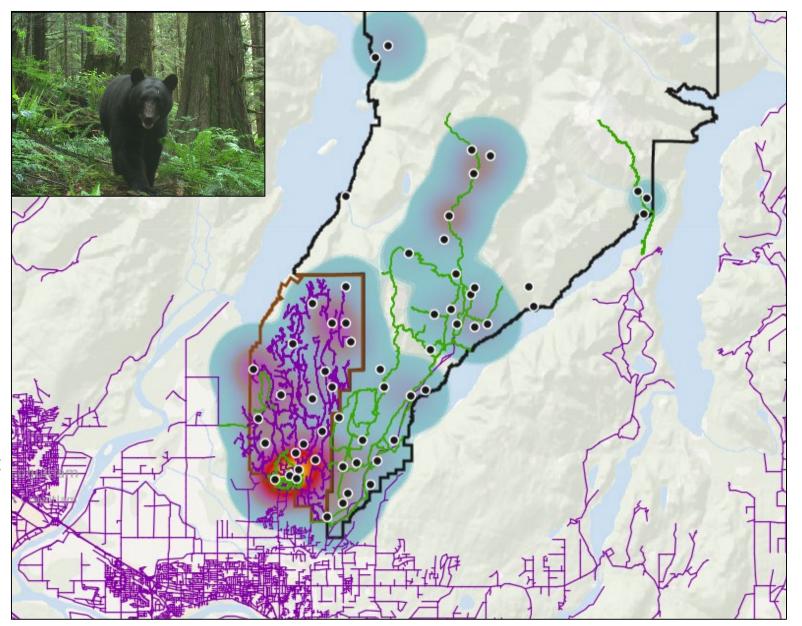
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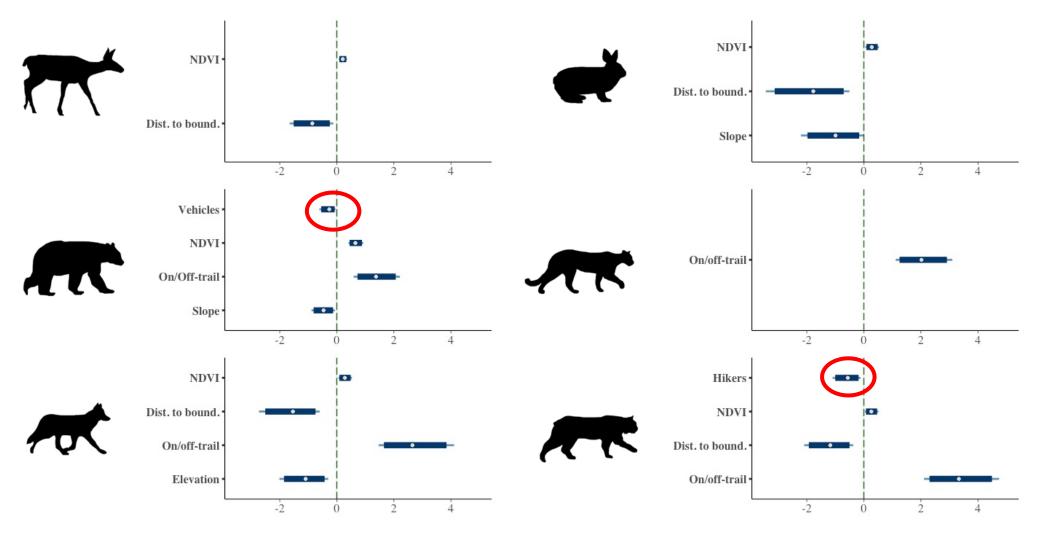


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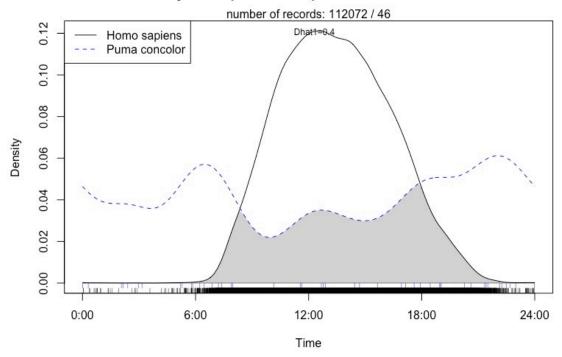


Some negative spatial associations with human activity

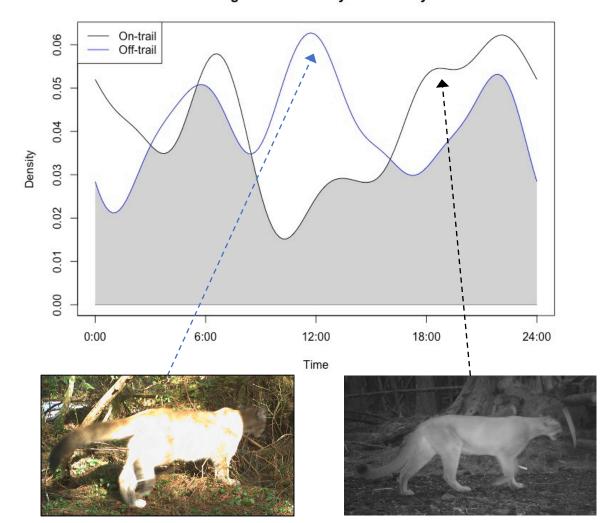


Cougars are more nocturnal on trails

Activity overlap: Homo sapiens and Puma concolor



Cougar Detections by Time of Day



Procko et al. in prep

Learning from the "Anthropause":

How are wildlife responding to rapid changes in park visitation?



VANCOUVER SUN

Apr 08, 2020

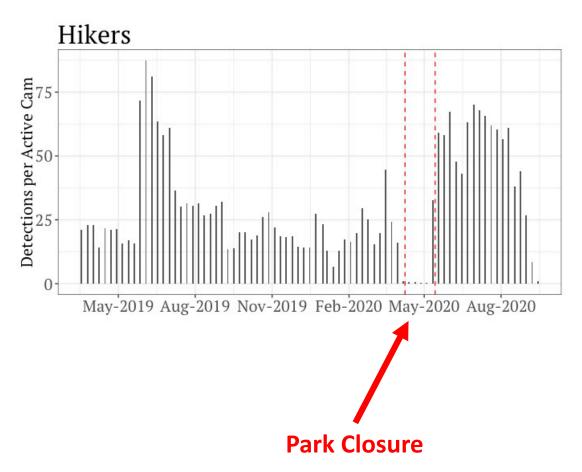
COVID-19: All provincial parks in B.C. closed to halt spread of virus

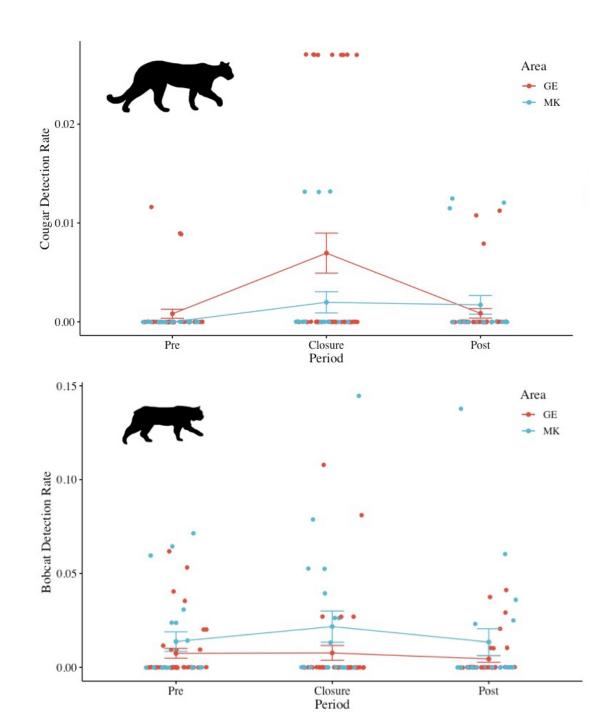
VANCOUVER SUN

Jul 23, 2020

COVID-19: Provincial parks overwhelmed as campers spill onto Crown land

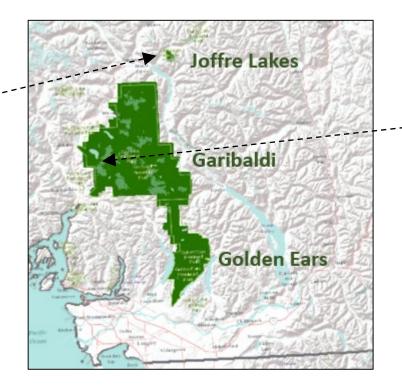
Cougars increased park use during closure

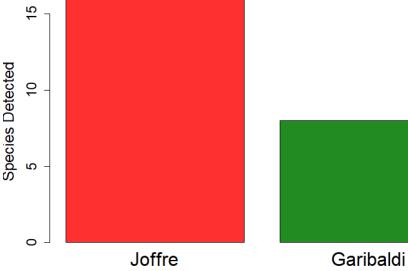




Joffre Lakes Closed







Garibaldi Open



21 cameras

More mammal species detected in closed park (so far – preliminary!)



Stay tuned for more results from:





wildcams.ca

Questions?



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Thank you!

WildCo Lab Members

BC Parks: M. Percy, J. Quayle, J. Grant, J. Hirner, S. Stickney, D. Lapointe, K. Wagner and more ...

UBC: R. Naidoo, V. LeMay, I. Aron, L. Chua, J. Dean

Many other collaborators, contributors, funders and supporters!





















