

Examining the response of mountain goats in Cathedral Provincial Park, BC to wildfire during the 2023 Crater Creek fire

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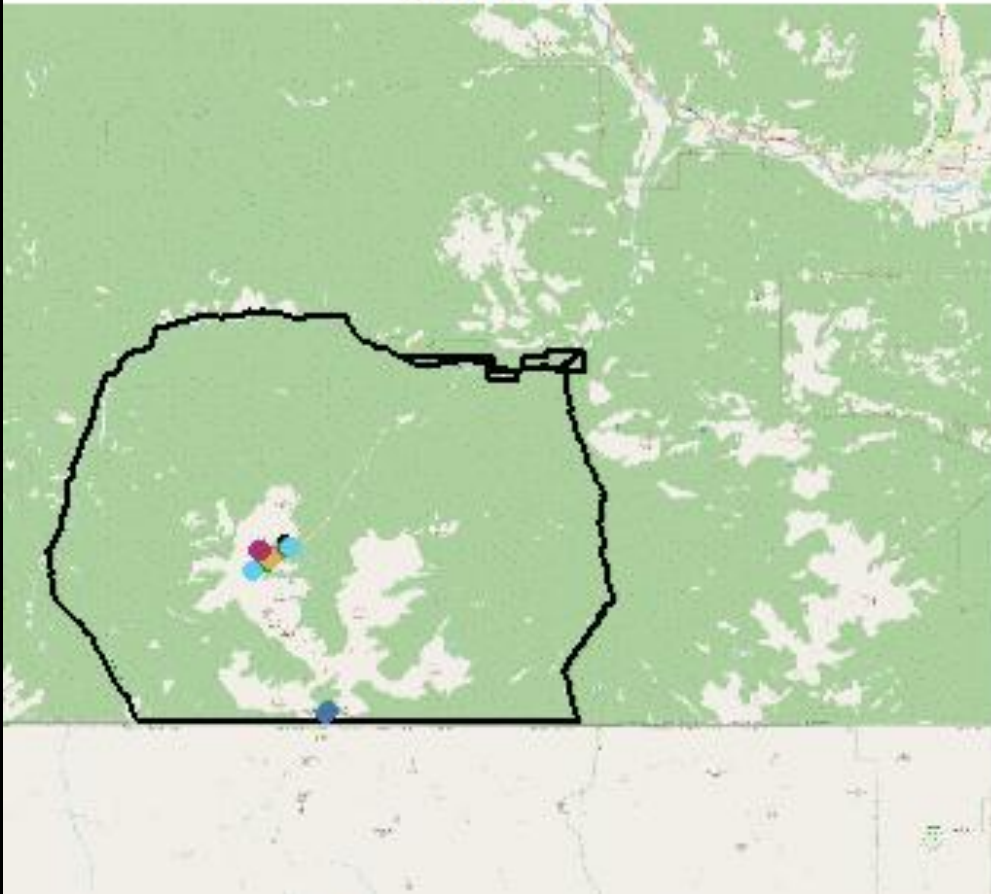
Supervisor: Dr. Michael Noonan

unceded Syilx Okanagan Nation territory

University of British Columbia, Okanagan

Mountain goats encounter a wildfire

2023-07-22



- Goatzilla
- Selena Goatmez
- The Goatmother
- Goatileo
- Toats McGoats
- Vincent Van Goat
- Cathedral Provincial Park

Is that a fire
over there?



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What do wildlife
do during a
wildfire?



Mountain
Goats

Movement

Home
range

Diffusion
rate

Habitat
Use

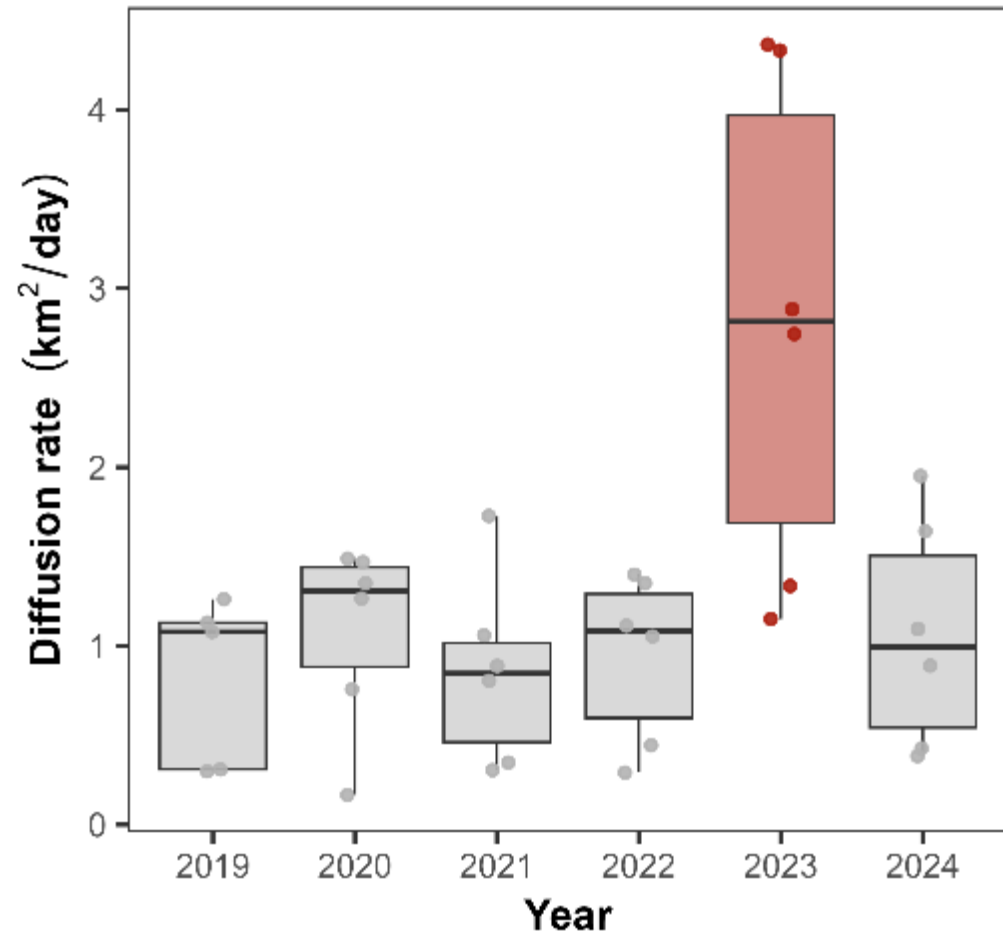
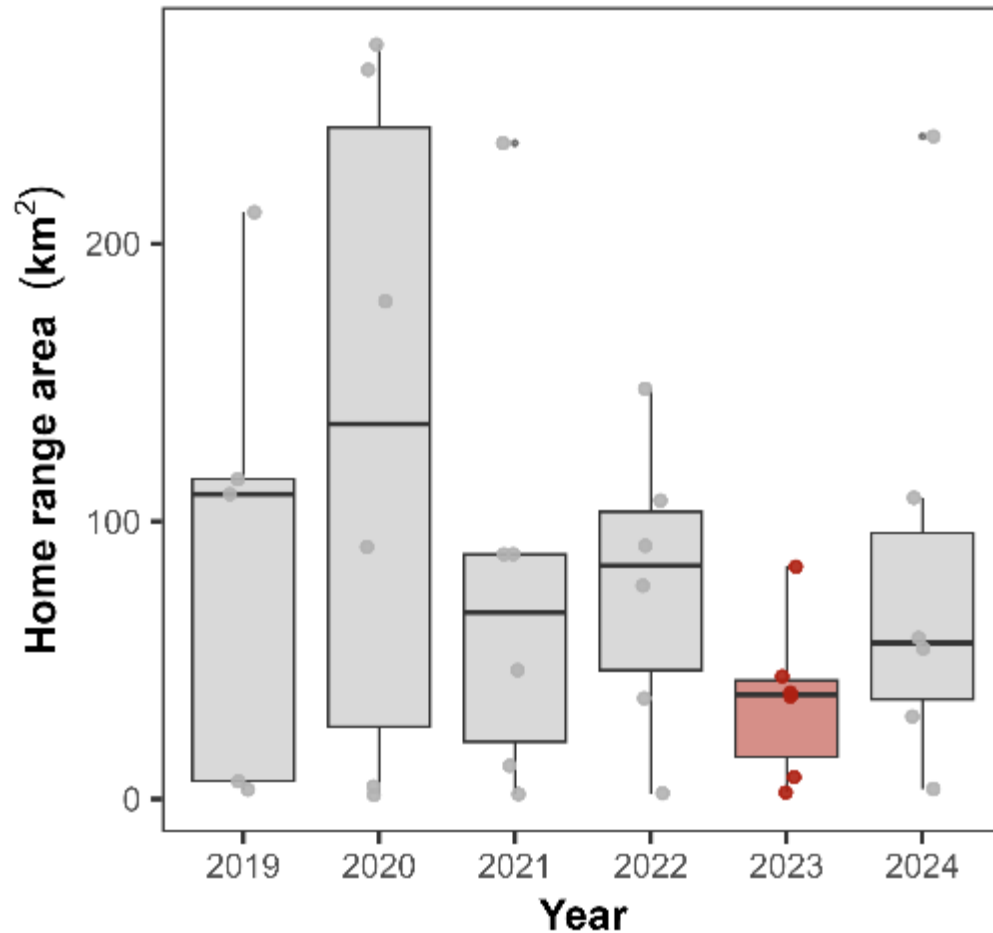
Elevation

Dist. to
Esc. Terrain

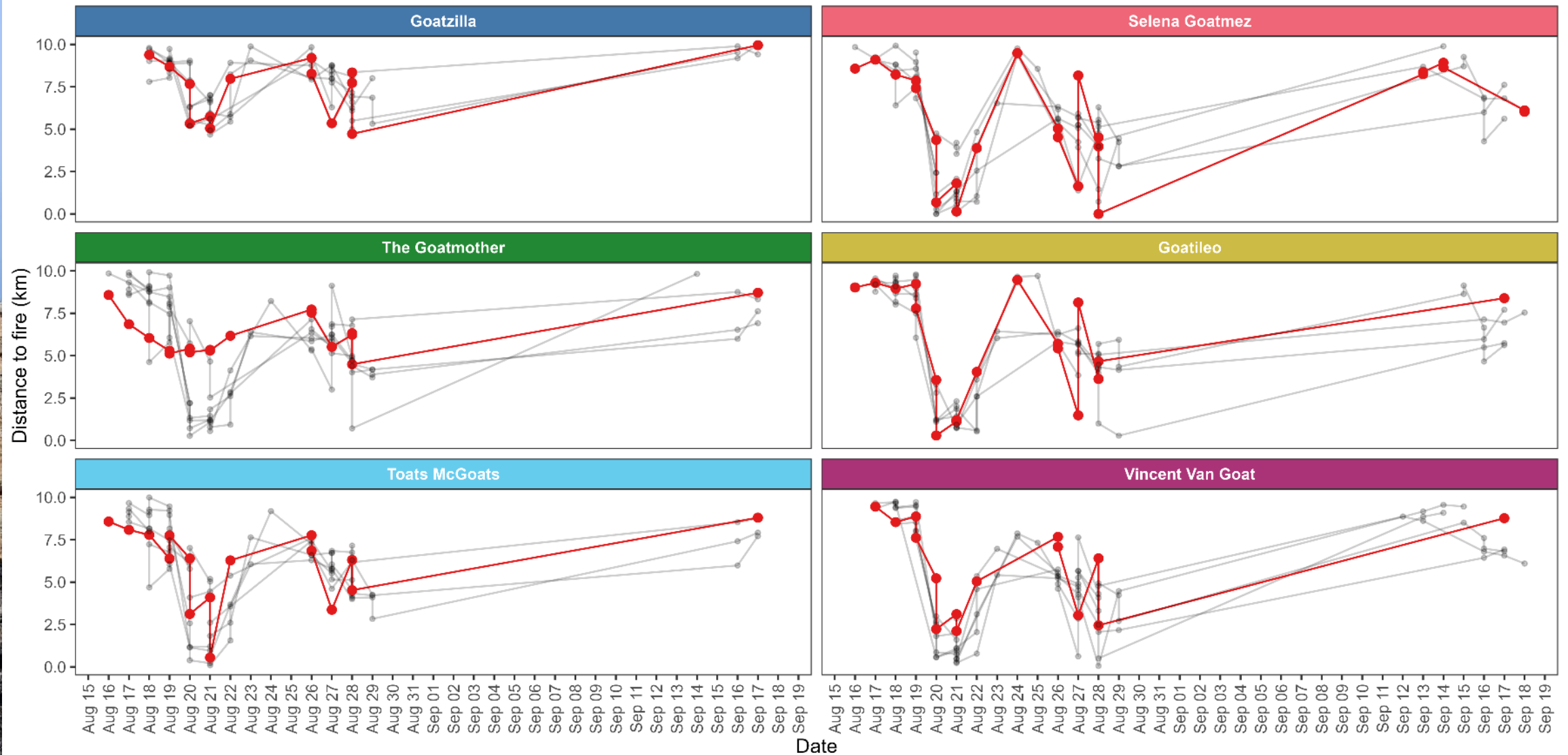
Research Questions:

1. How did their movement change?
2. What changes occurred in habitat use?

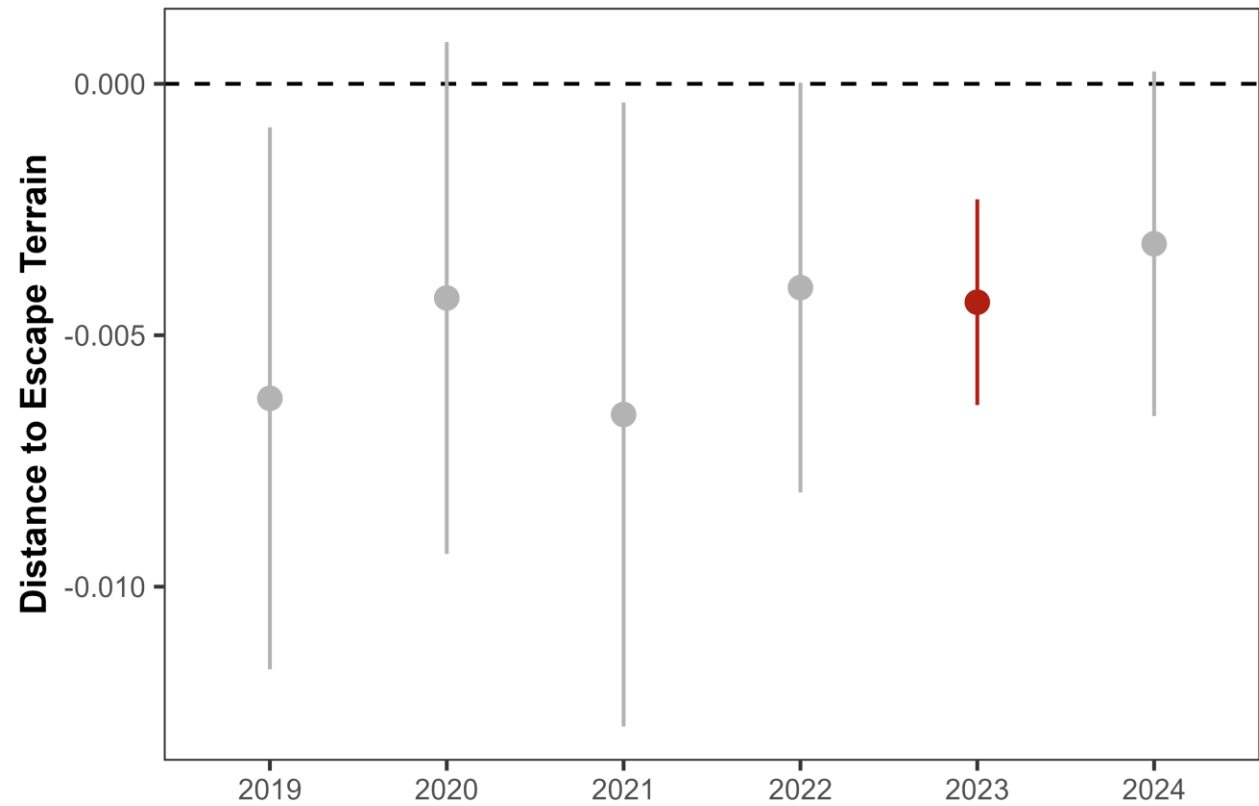
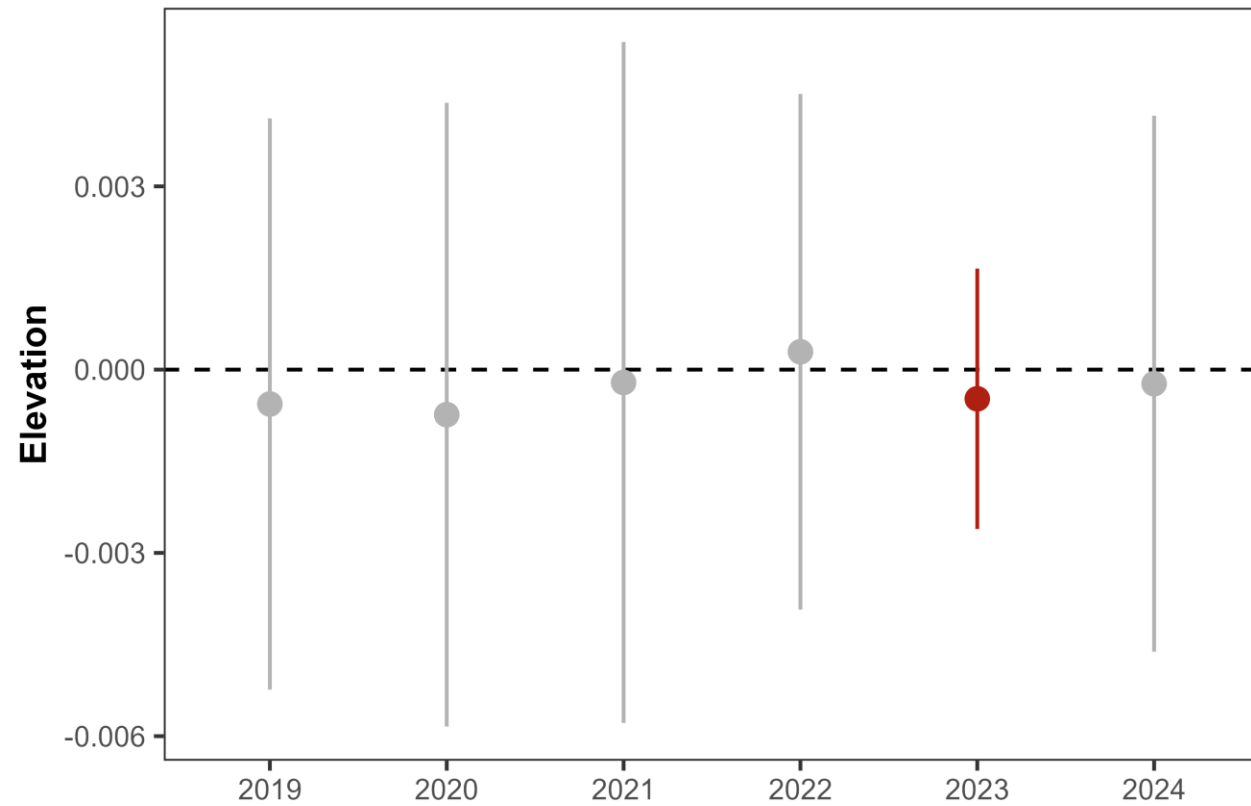
Home range and diffusion rate



Distance to fire



Habitat use



A photograph of two mountain goats in a grassy, rocky field. One goat is in the foreground, facing the camera, and the other is further back, also facing the camera. Both goats have white fur and dark, pointed horns. The background is a vast, open landscape with green grass and scattered rocks.

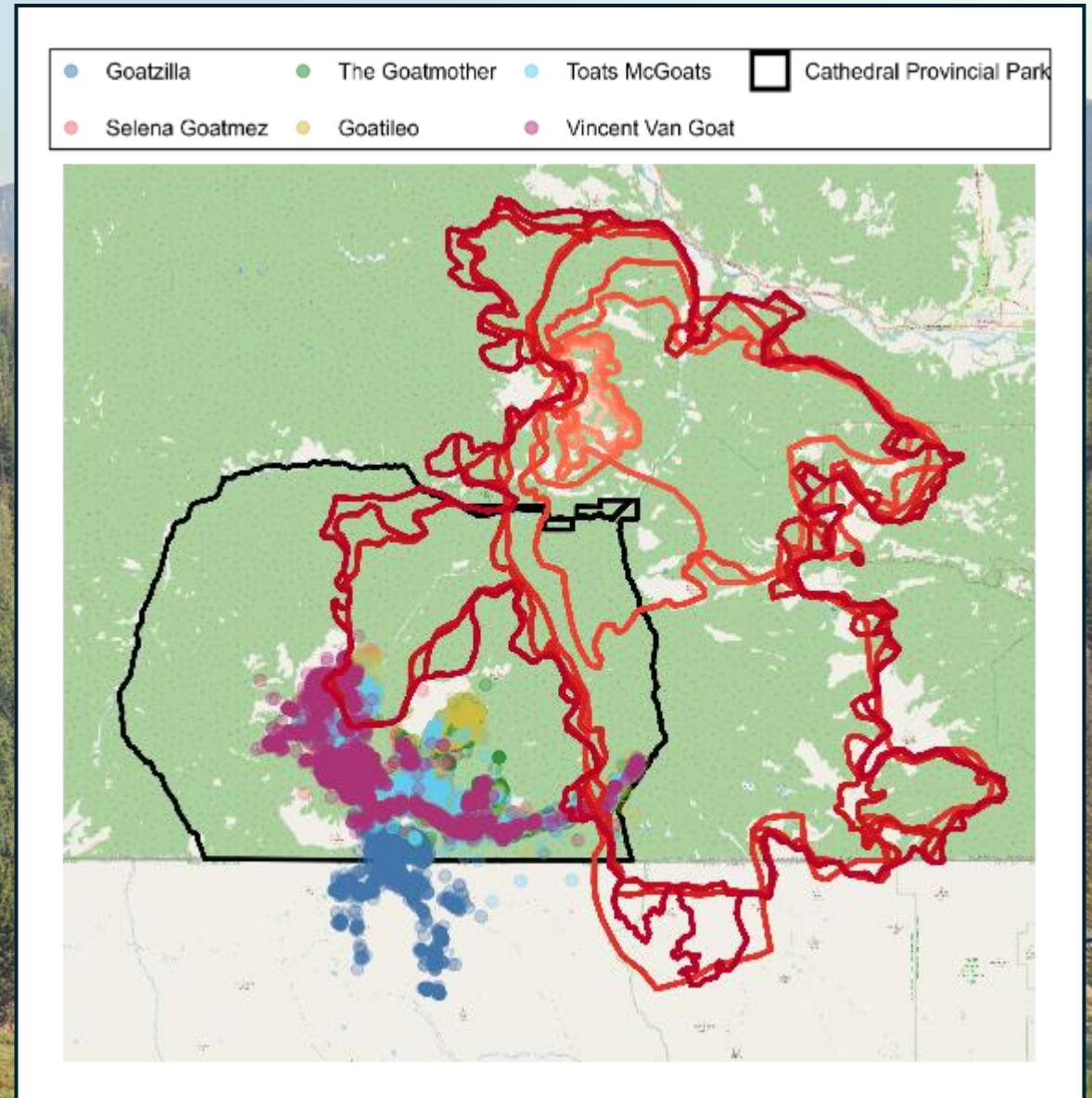
**What does this
mean for
conservation?**

- 🔥 Coarse-scale results suggest that mountain goats *are* significantly affected by wildfire
- 🔥 Fine-scale analysis is required to disentangle behavioural responses of mountain goats to wildfire

Next steps...

Fine-scale analysis of
mountain goat behaviour

Fine-scale analysis of
fire behaviour



Thank you!



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