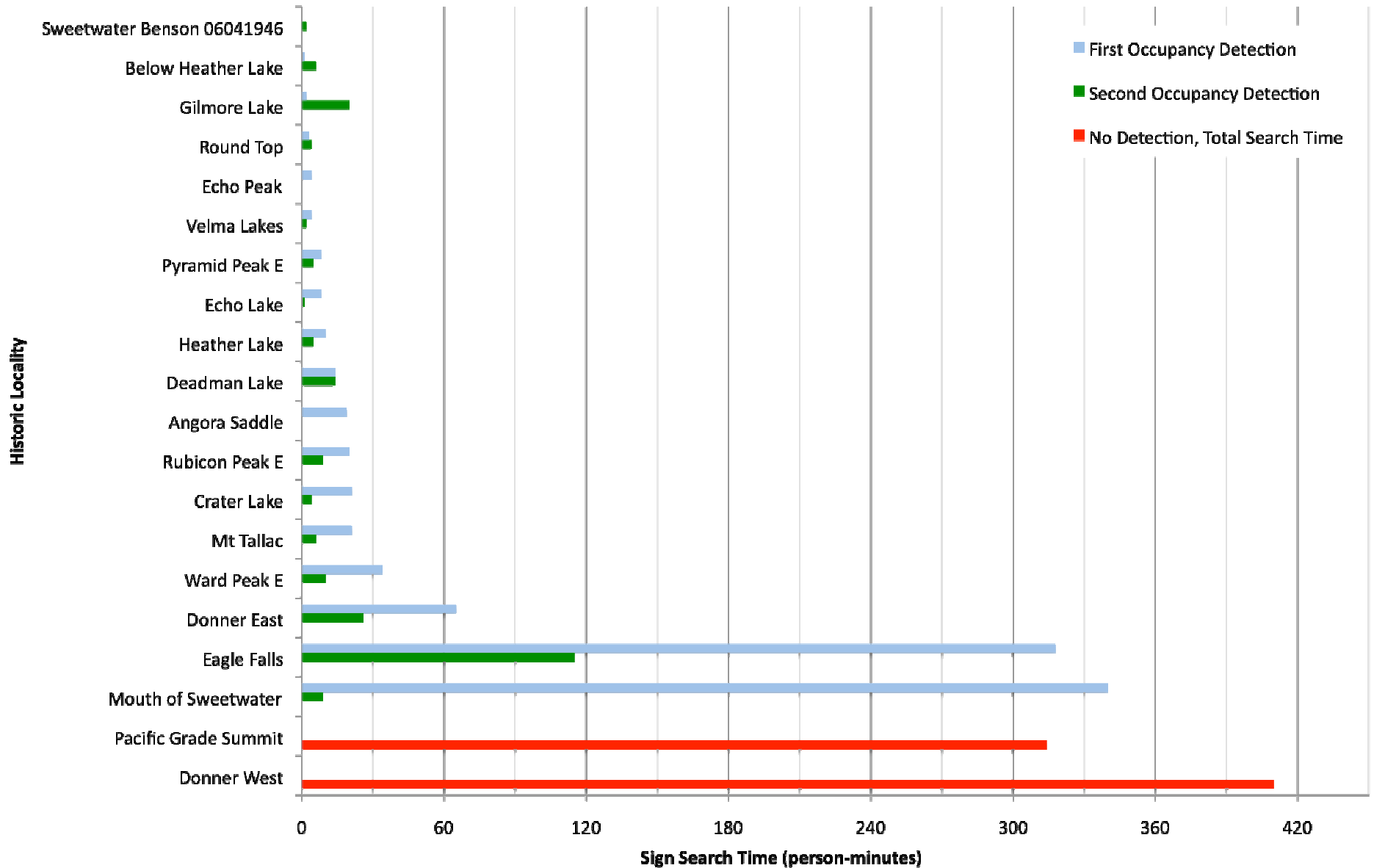


# Methods

- Compile historic records
  - Museum specimens
  - Historic field notes
  - Sites within 1km proximity were aggregated
- Revisit historic sites (> 25 years old/before 1984), determine pika +/-
  - Survey protocol adapted from E. Beever, C. Ray, J. Perrine
  - “find ‘em, you’re done;” extensive searches if not found
  - Search radius = 1km

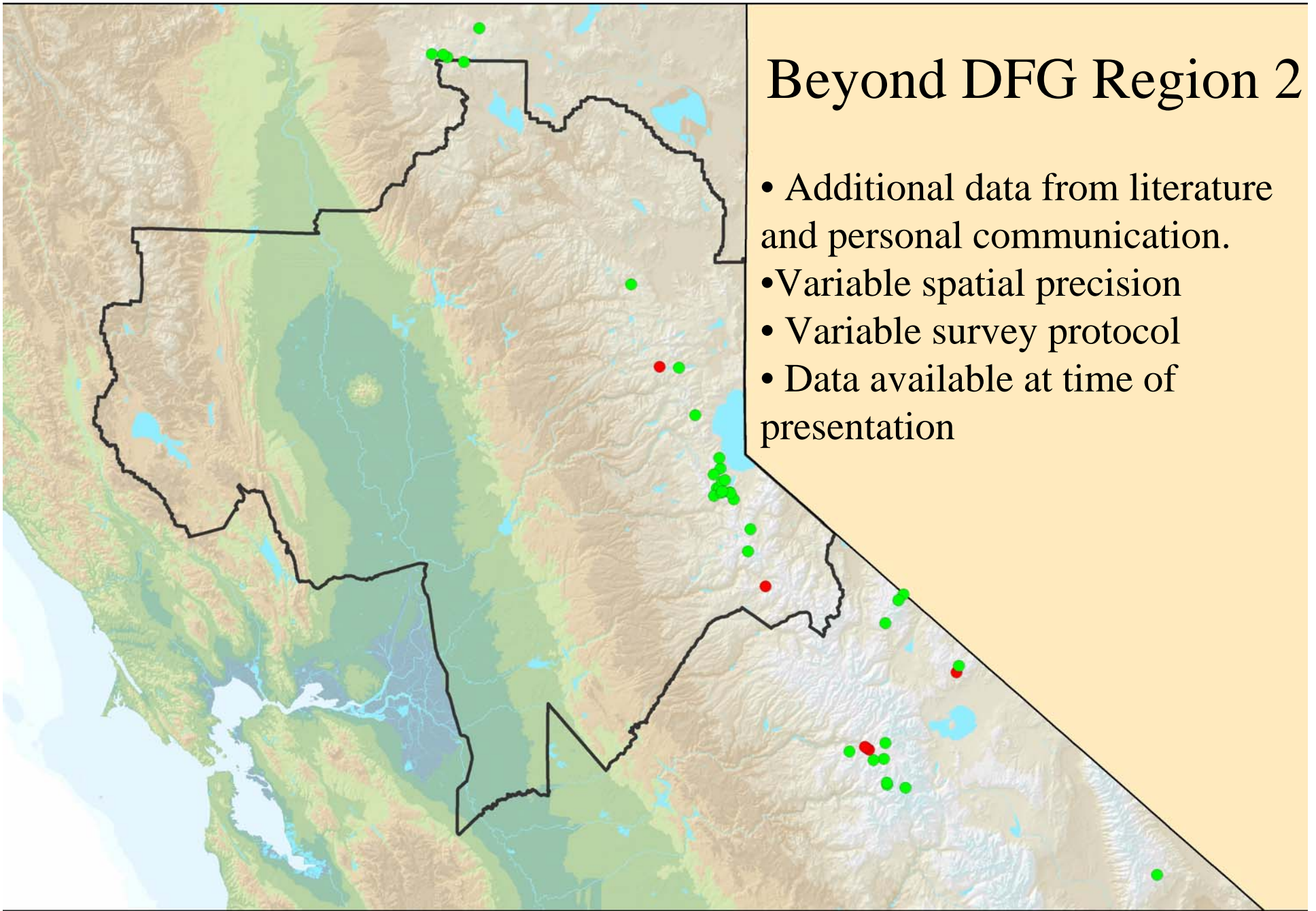
# Time to Pika Occupancy Detection

*sign search time only, does not include time navigating between talus*



## Beyond DFG Region 2

- Additional data from literature and personal communication.
- Variable spatial precision
- Variable survey protocol
- Data available at time of presentation



0 25 50 100 Kilometers

# Glen Aulin

## Four Historic Records, [1915]

“**Conies** were heard bleating at lower end of Glen Aulin in a rock-slide alt. 7700 ft”  
W. P. Taylor, p. 2448]

“mammals heard & seen: **Cony**, 1 (heard on rock slide at about 7650 ft)” [T. I. Storer, p. 602]

“On the SE side of McGee Lake I heard a **cony** ‘barking’ from the rock-slide”  
Storer, p. 604]

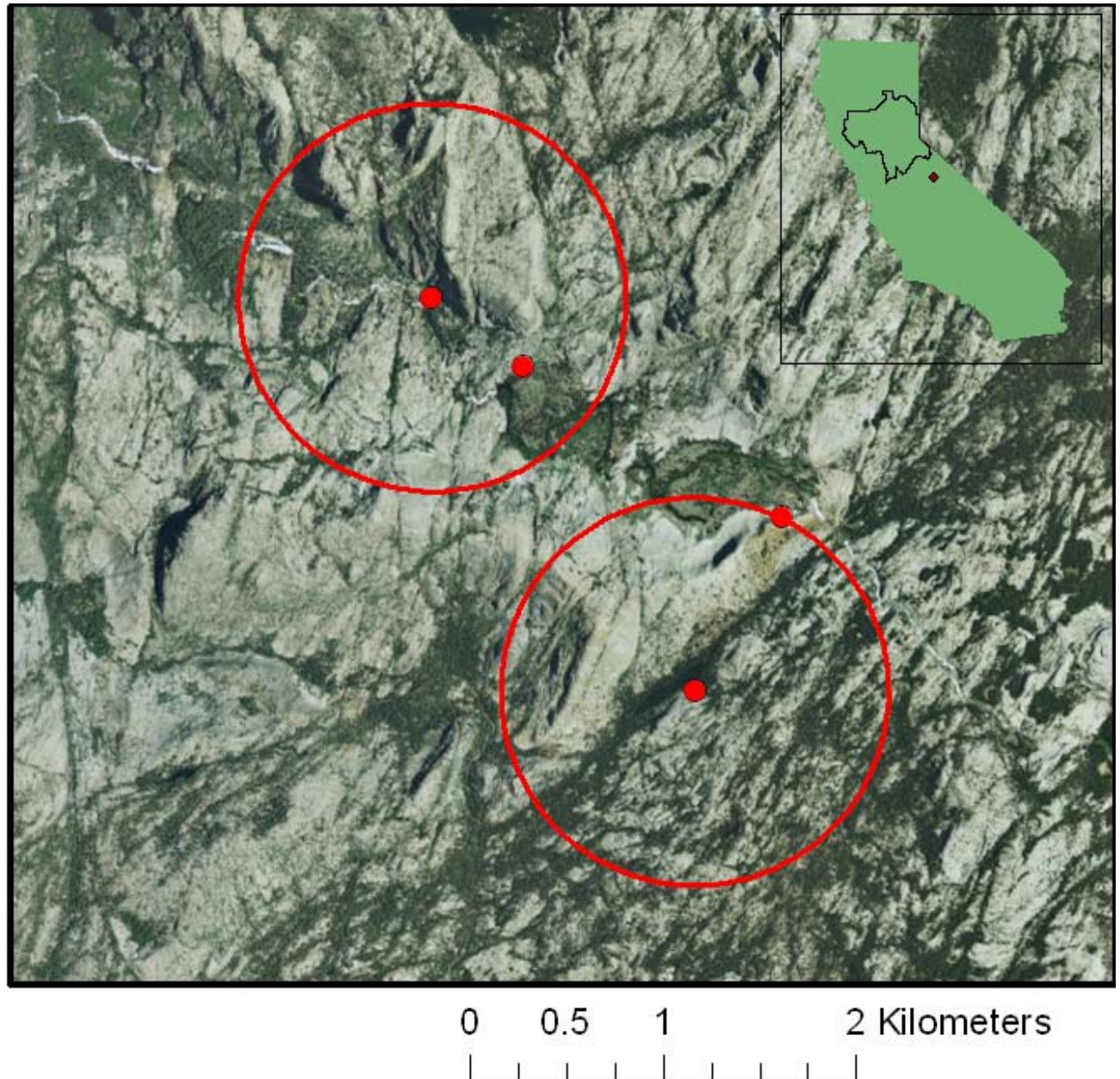
“in the rockslides which lie at the base of the canyon wall I found feces of marmot, woodrat, and **cony**. I also heard the call of the latter animal in two different places, but after ‘roosting’ on the rock piles for over an hour saw nothing of them.”  
Storer, p. 608]

## Revisited:

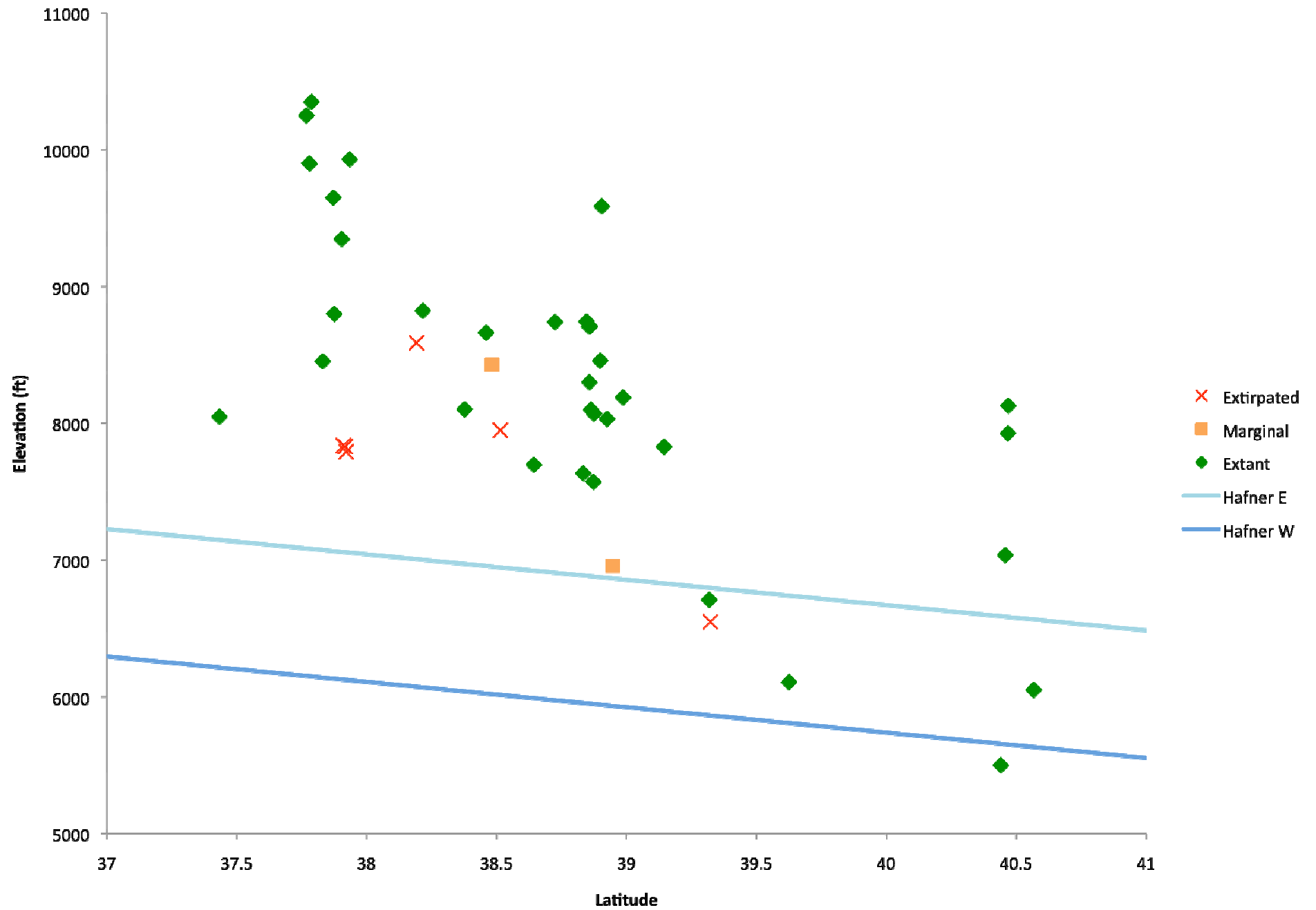
2003 - J.L. Patton

2006 - E. Rubidge

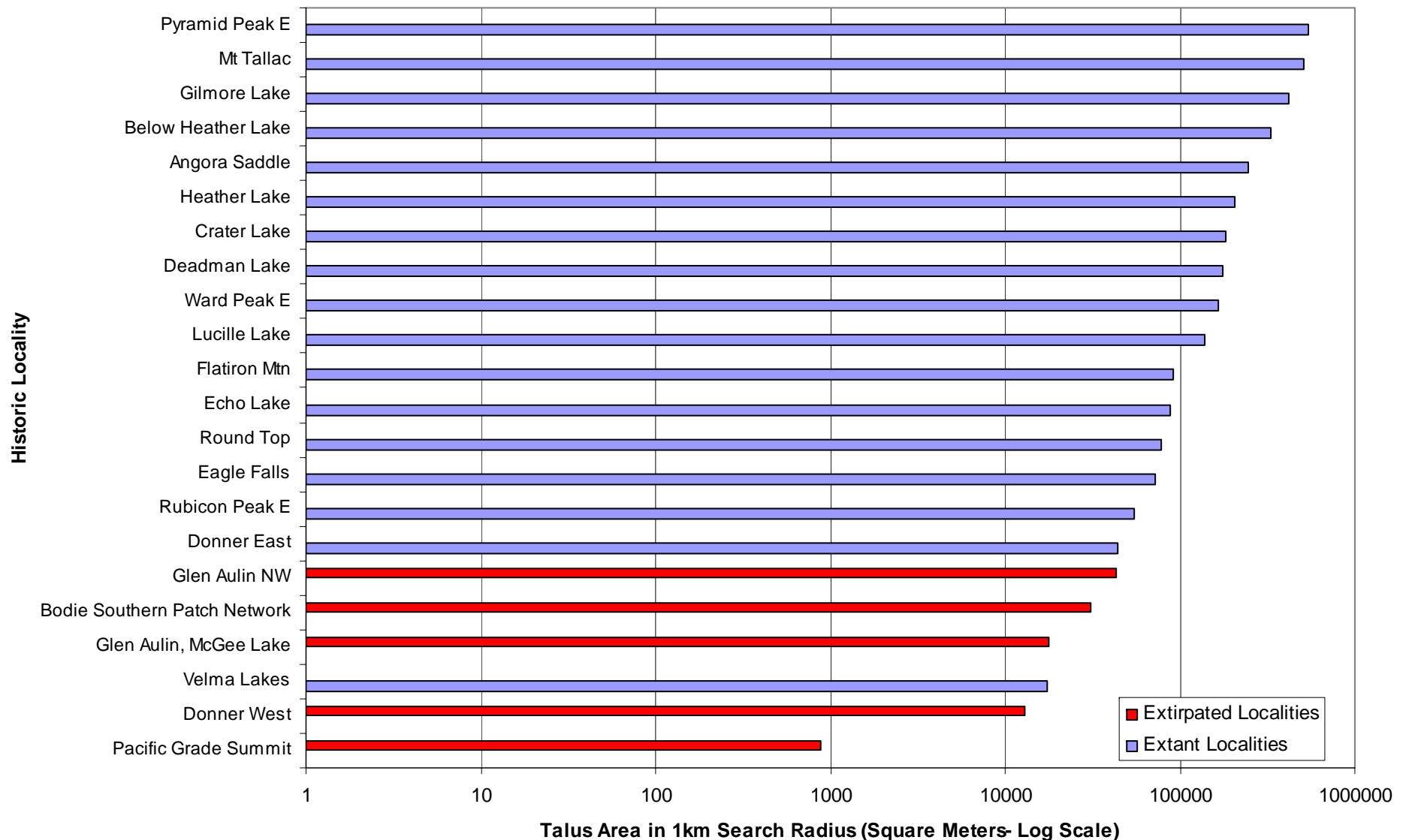
2008 - W. Hoffmann



## Historic Revisits, California



# Is There a Pattern: Size of “Habitat Island” vs Persistence?



The background of the slide is a photograph of a talus slope, which is a hillside composed of loose, broken rock fragments. The rocks are in various sizes and shades of grey and brown, creating a textured, uneven surface. The lighting is bright, suggesting a sunny day, and the overall tone is naturalistic.

# Limitations

- 1km search radius—could lead to false persistence
- Mapping talus habitat is an error prone process
- Historic records not random or stratified
  - Do not adequately sample lower elevation sites