

Grinnell Resurvey Project

Grinnell-1918

To Red
Mtn.

meadows, and specimens
the former is not beldingi
invades Boreal, and seen
that Beldingi does in the
latter species certainly
altitudinally or zonally.

was noted all the way from
Susanville to the light (it
too cold and dark to hang
out); the same with Es
no other species of chipmunk
Saw several Chickarees
in the Big Meadow region
pines some in.

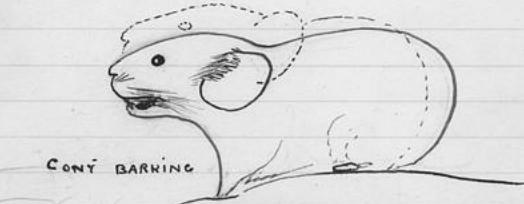
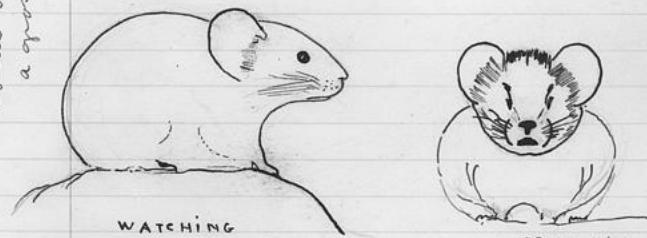
Comp. 1915

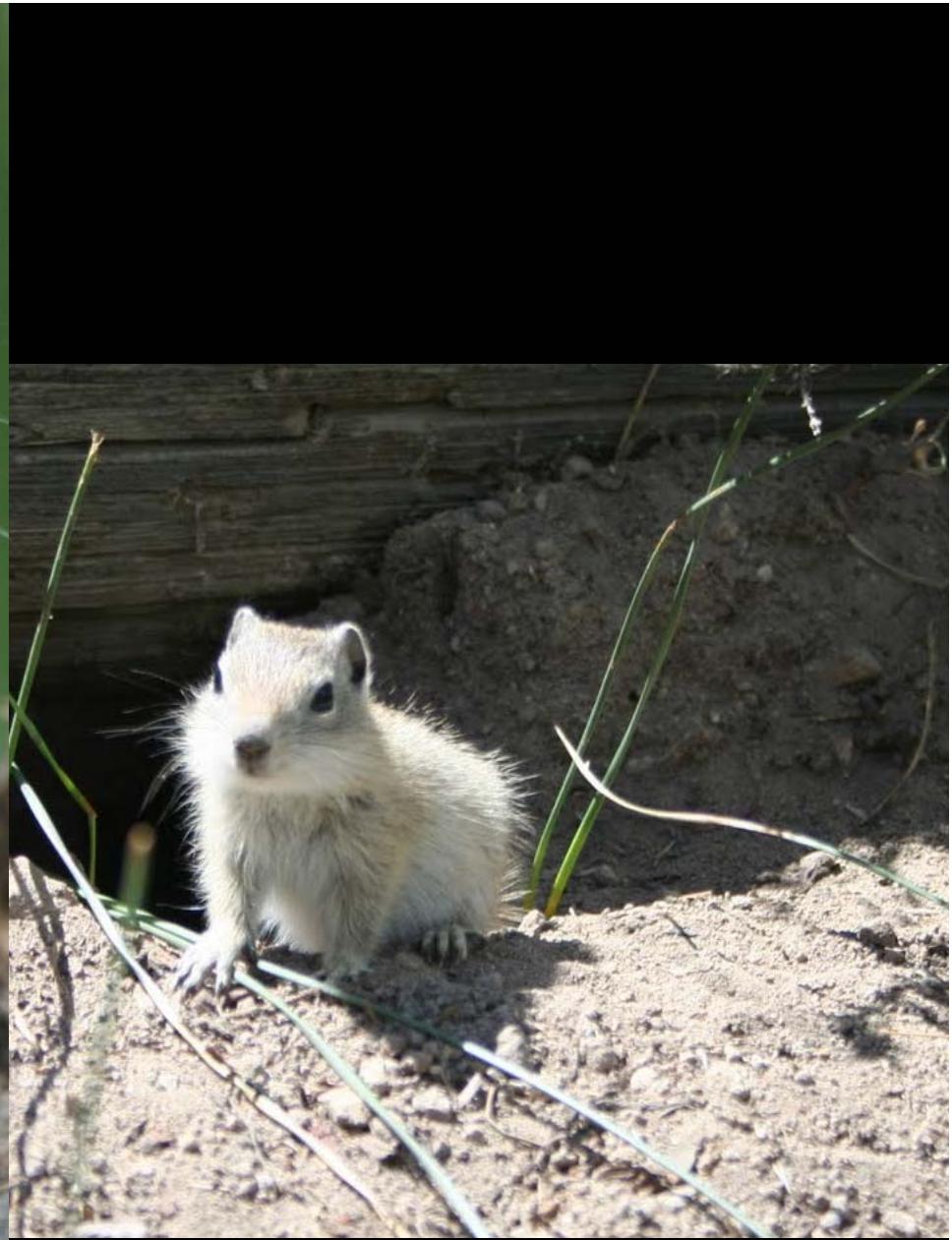
Conies were seen eating grass and are found
a grass blade in its mouth when shot.

480

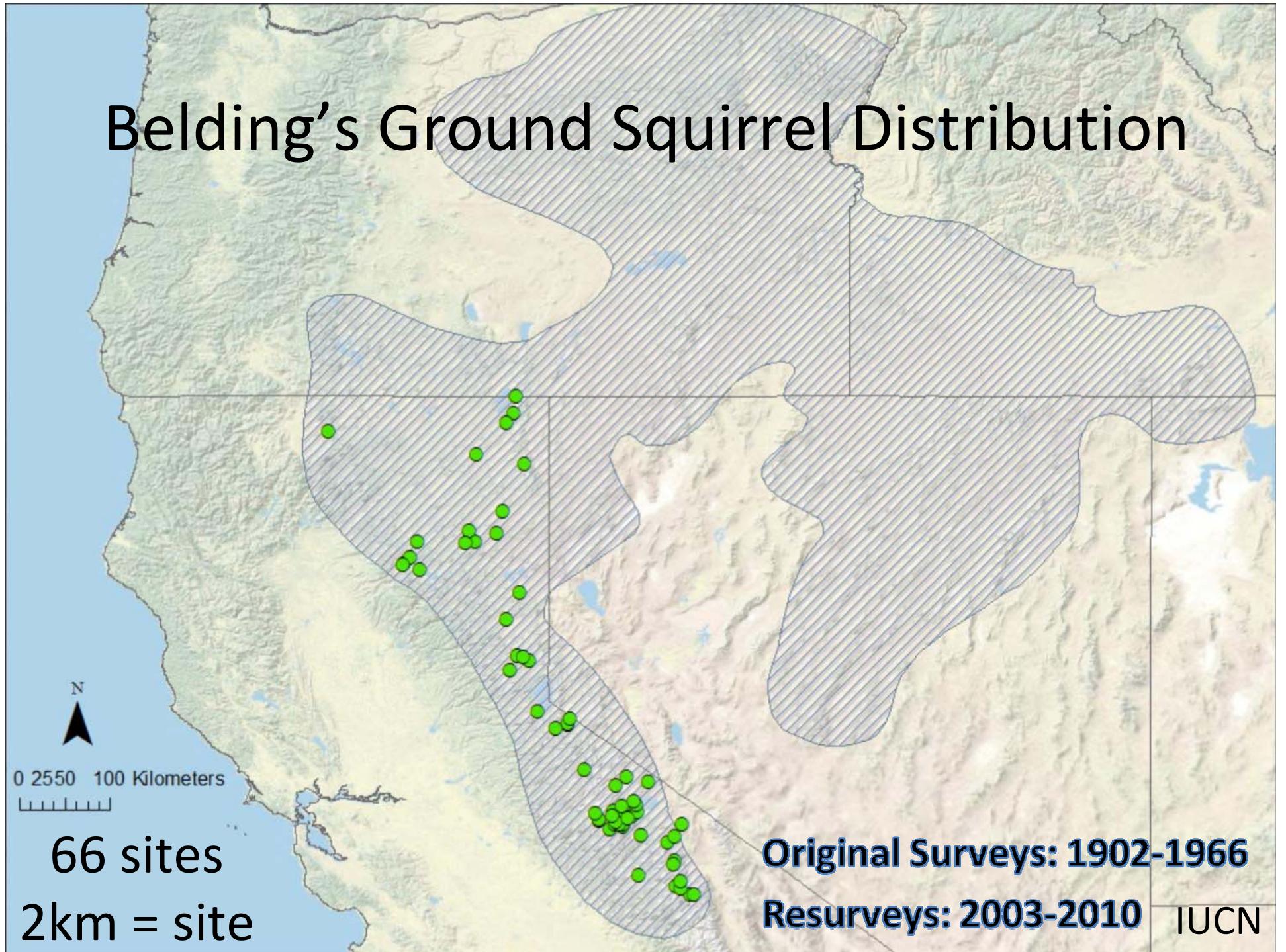
Syll Canyon, Yosemite Natl. Park, Calif.
El. 9700 ft. July 21, 1915.

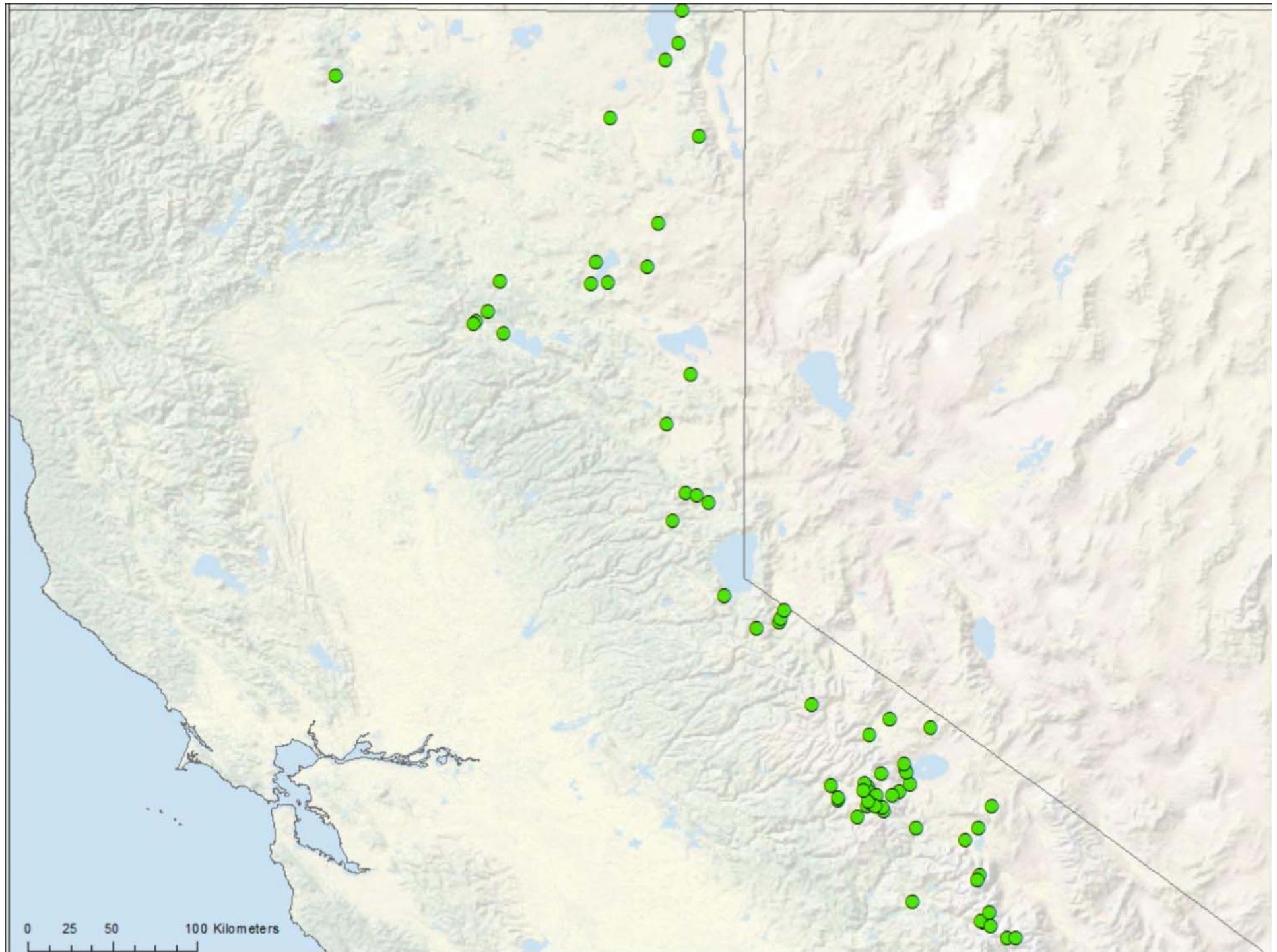
other Citellus beldingi (one in meadow,
Donahue Pass trail 10,000 ft. one in rocks
near this meadow.) - An alpine chipmunk
was shot near one setting of steel traps on
top ridge (11,000 ft) between McClure
+ Syll F. br. (few Pinn abricornis)
Three Conies were shot, one in rock
slide 200 ft above camp along trail
and two in open rocky ground + heather
above meadow on Donahue Pass trail at
10,000 ft. Diagrams below show some
typical cony attitudes on rocks:

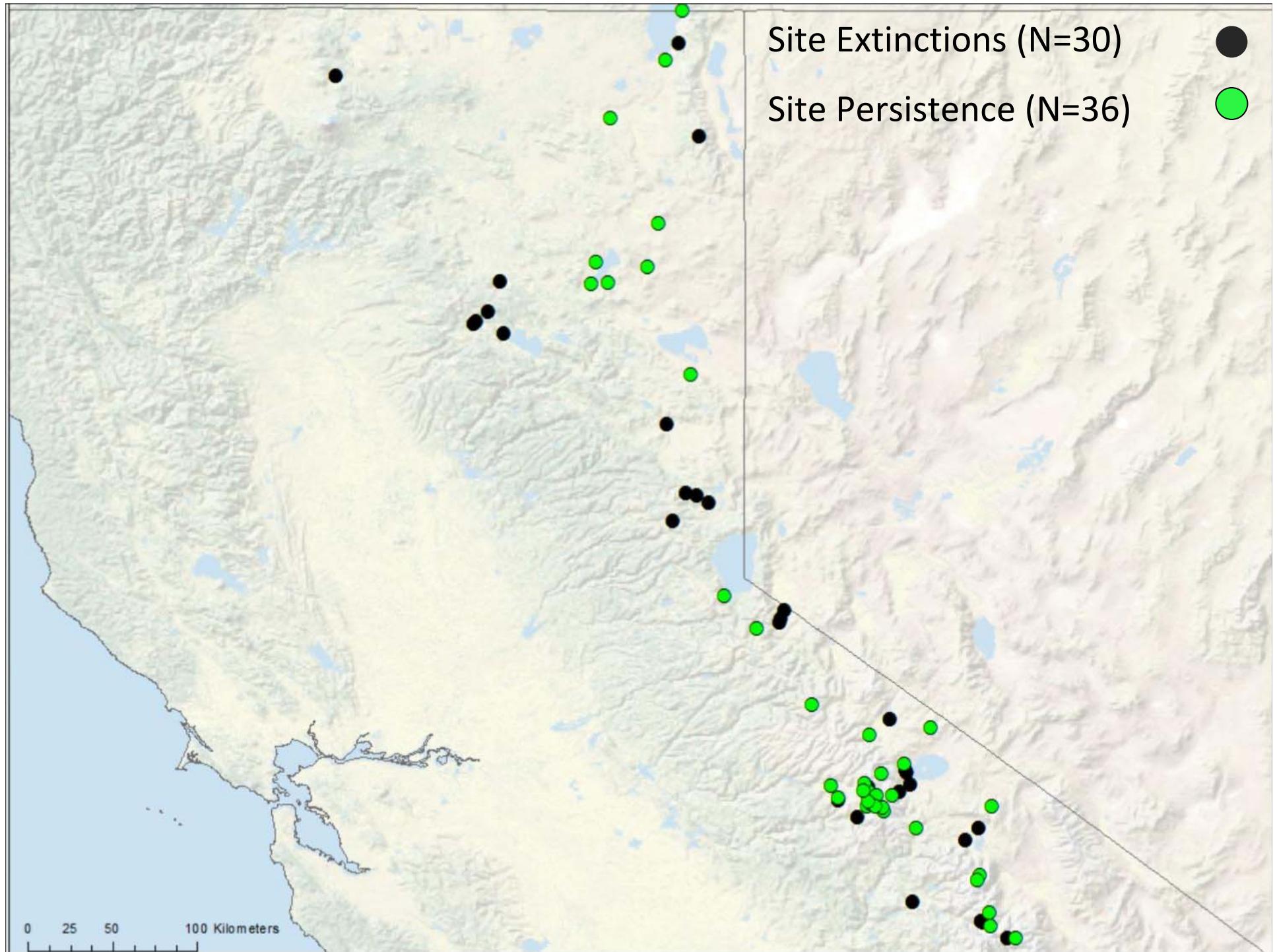


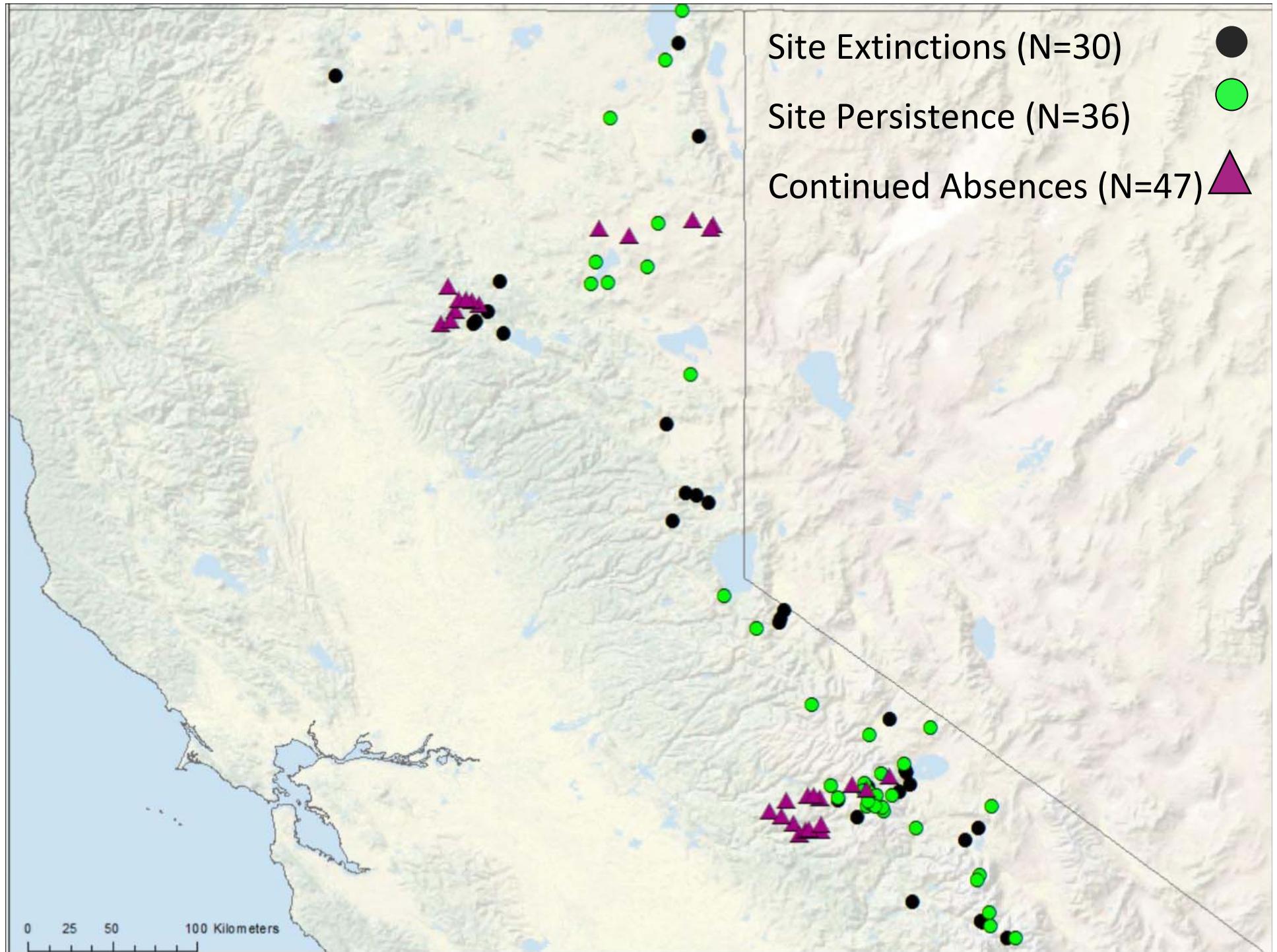


Belding's Ground Squirrel Distribution





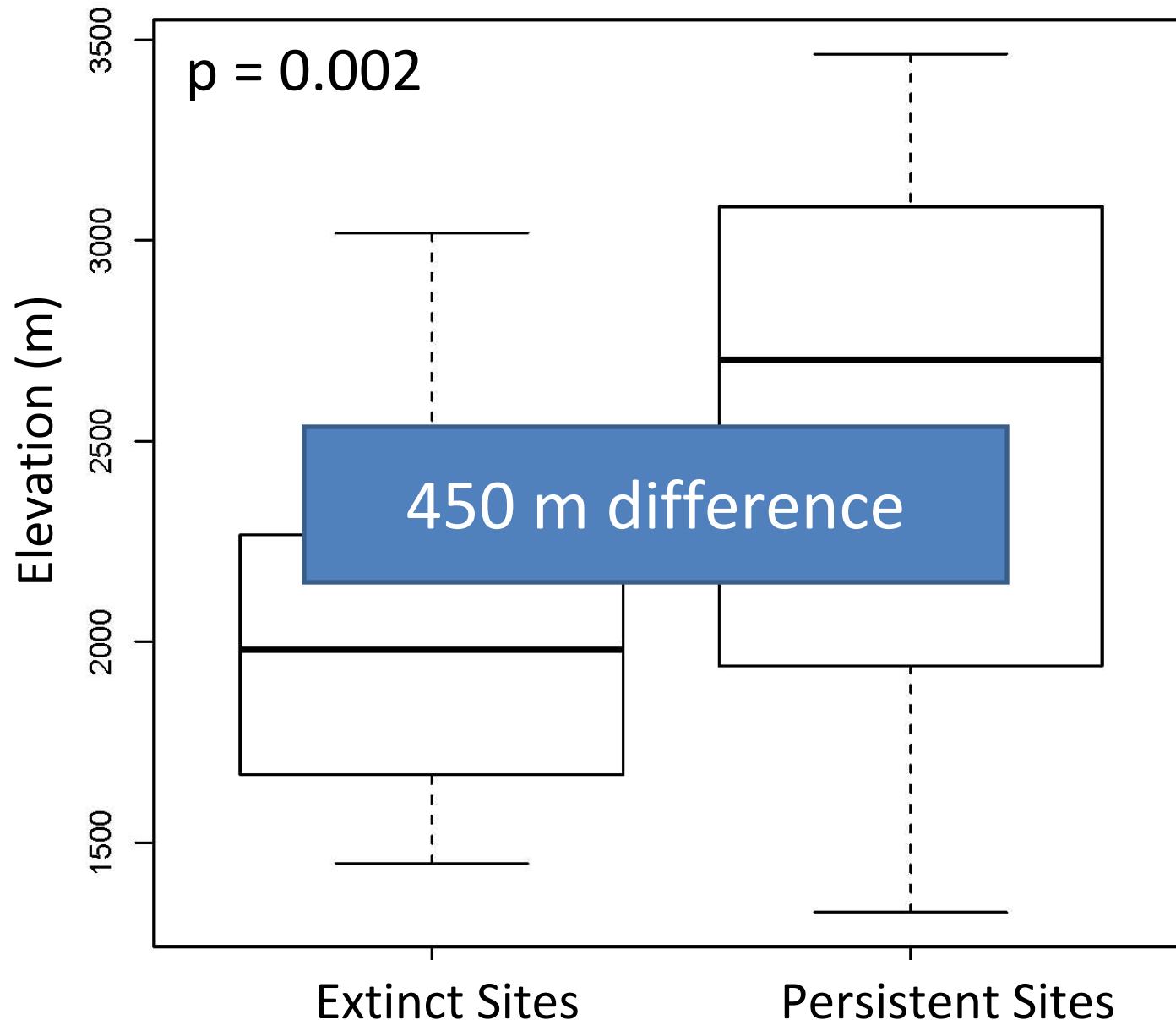




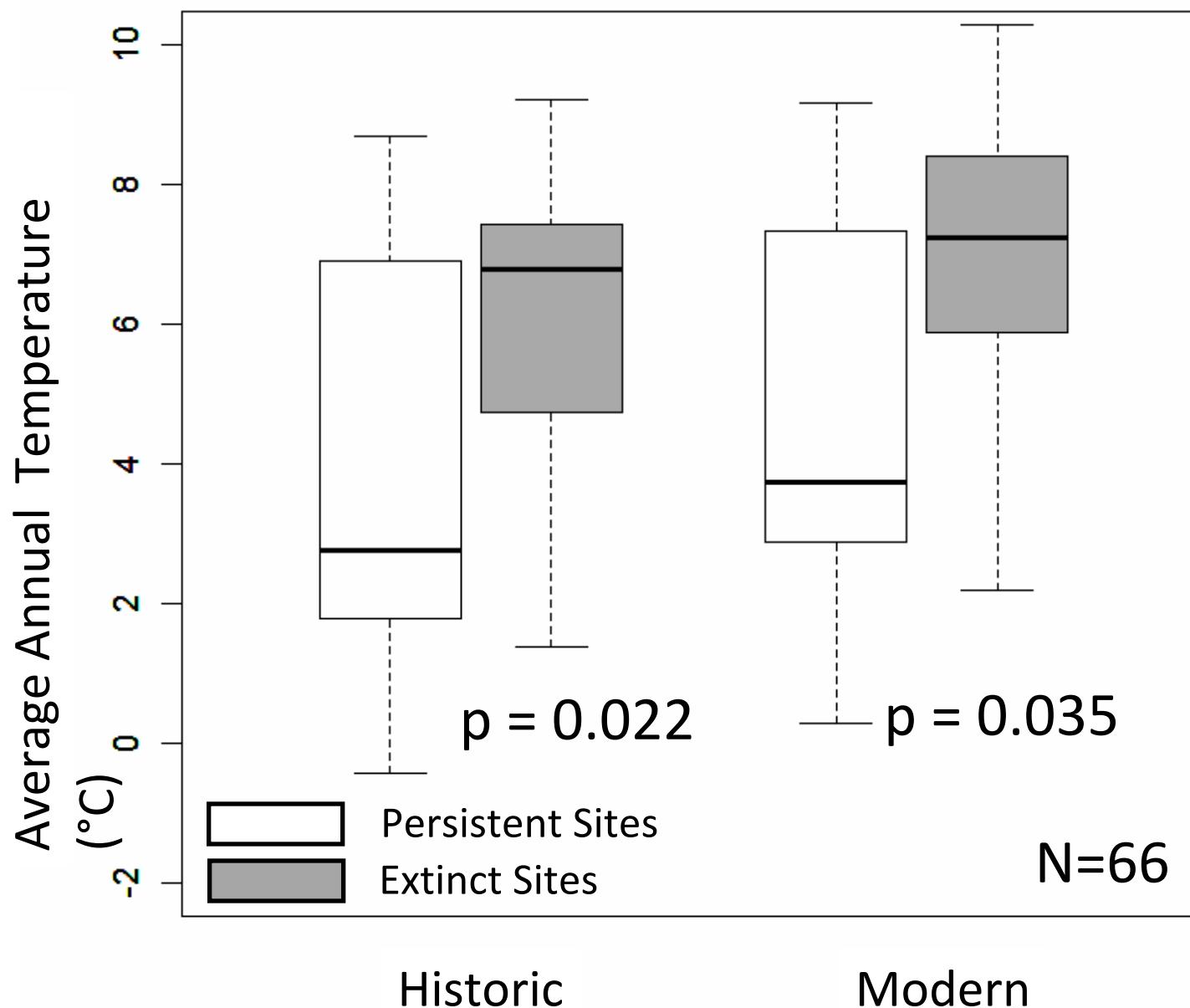
Factors Affecting Site Extinction

Factor	p
Date	NS
Latitude	NS
Longitude	NS
Grazing	NS
Anthropogenic Site	NS
Proximity to Water	NS
Temperature Change	NS
Winter Temperature Change	NS
Precipitation Change	NS
Winter Precipitation Change	NS
Elevation (m)	p < 0.005
Average Temperature	p < 0.01
Average Winter Temperature	p < 0.0005
Modern Beecheyi Presence	p < 0.001

Site Extinction at Lower Sites



Site Extinction at Hotter Sites



Survey methods

- Visual resurveys at 66 sites
- Late June to early September (July 26 average)
- 1-4 observers/site (44 by myself)
- Average of 90 minutes/site
- Average of 2.6 visits
- Trapped at 30 sites



A photograph showing a gopher in a field of tall green grass. The gopher is visible in the center of the frame, looking towards the left. In the background, there are more fields and a range of mountains under a blue sky with some clouds.

Highly detectable

- Diurnal
- Group living
- Alarm calling

Detectability (p) = 0.95 (95% CI: 0.86 - 0.98)
for 1 visit (N=18)

Detectability (p) = 0.9975 for 2 visits (N=13)

- Sign

list