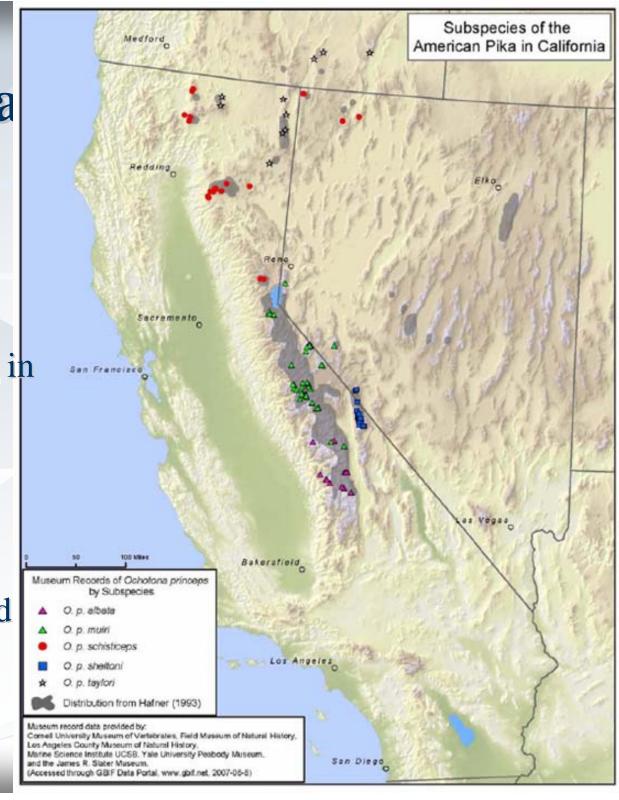
Status of pika at historic northern Sierra sites

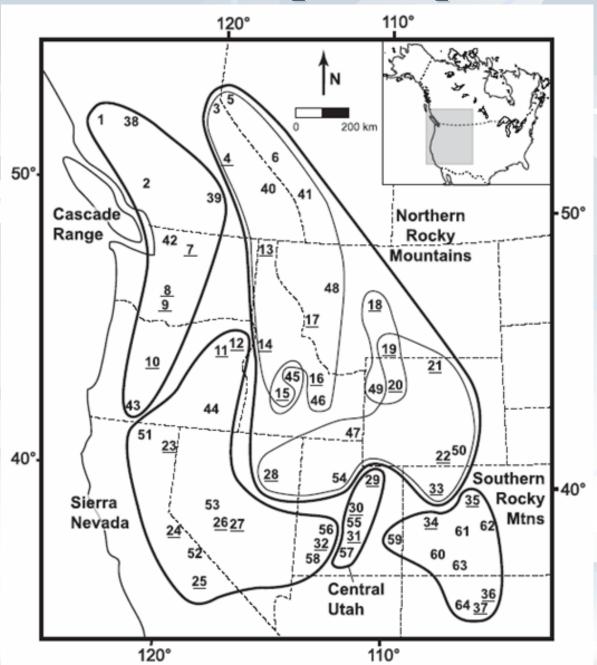
David Wright
California Dept. of Fish and Game
North Central Region (R2)
Rancho Cordova, CA

American pika

- Lagomorph
- Distinctive
- Restricted
- 36 named subspecies, 5 in California
- albata Mt. Whitney
- muiri Yosemite
- sheltoni White Mtn.
- shisticeps gray-headed
- taylori



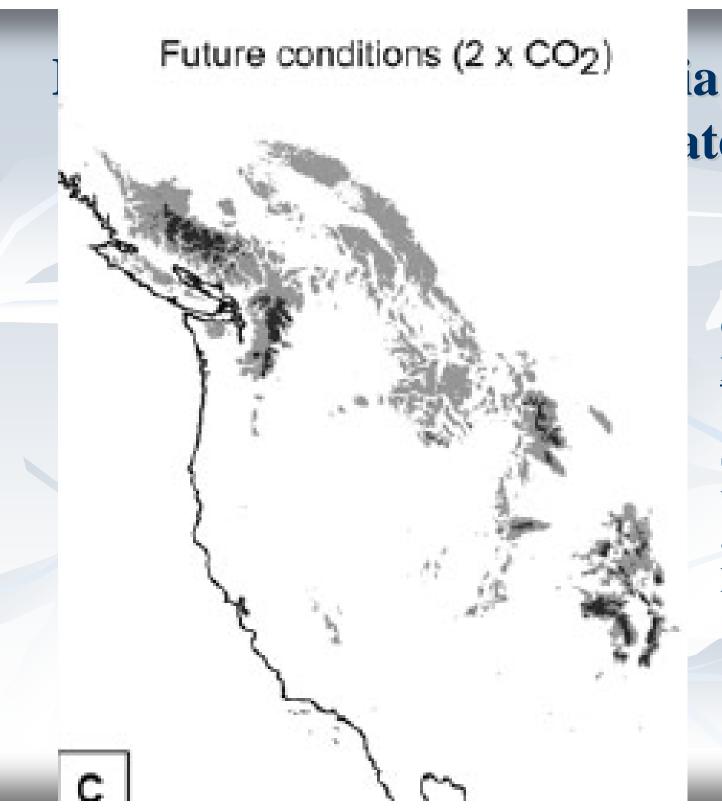
Subspecies questionable?



Mitochondrial DNA lineages:

Galbreath et al. 2009

J. Biogeography



a subspecies, atens...

Galbreath et al. 2009 Evolution

Similar projection using different approach by Scott Loarie, in press

Ergo:

BEFORE THE CALIFORNIA FISH AND GAME COMMISSION

PETITION TO LIST THE AMERICAN PIKA (OCHOTONA PRINCEPS) AS THREATENED UNDER THE CALIFORNIA ENDANGERED SPECIES ACT



American pika @ John C. Mosesso

CENTER FOR BIOLOGICAL DIVERSITY, PETITIONER

AUGUST 21, 2007

Status in California: Unclear

- Few localities documented
- Many records old
- No trend studies

Need: More information!



Questions

- What historic pika localities exist in our area?
- Are pikas still present at these sites?
- Is there any pattern of persistence vs. elevation (temperature)?
- These questions address issues both of distribution (where) and trend (change)
- But not a comprehensive spatial survey

Methods

- Compile historic records
 - Museum specimens ... online databases
 - Historic field notes
 - Other
- Revisit historic sites (> 25 years old),
 determine pika +/-
 - Survey protocol adapted from E. Beever, C. Ray
 - 'find 'em, you're done;' extensive searches if not found



Archival field

Gimell-1913 Circo, Place Co. Oct. 3 s of oftened. There is considerable talus about to the summent - of block of stone affording in the secesses ideal retreats for (comes) and wood rats; but I failed to ful signs of eiter. I did see, however, considerable excrement only of Woodclanck, this being possibly the westermunt edge of the range of the opposies. I saw one Citallies 6. beachage in a rockslike near the SO summent; also several Estamos amorems. ither meren, frater, or senex. This morning,

ither amount, frater, or sonex. This morning, 7 to 10, I went up to Cioco Butte, 6500 ft, and vicinity. He Butte is a gracier-worn rocky oumit, from which a commanding view is

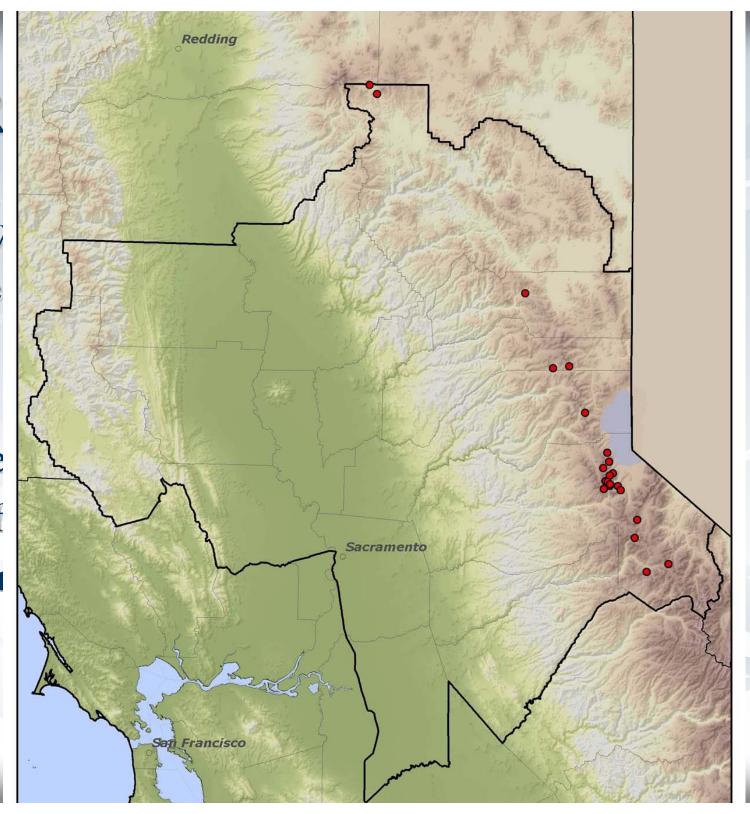
by way of stross Lake. Saw The first Ochotone in roth slide about a mule Teus side of Heather X. The brail at Mus provide leads into trocky congre with Continuous risch alide as cetter side. Here wer heard The quick double church of quite brequently and same Their ran- ways at The book of The slides andway he crass and brush. Saw two disaphear in Trees run my. and their return among the rolls with men moules bull of grass. Later bound about an armbul of breste grass under a stolving rock - May know the hassages under The rocks per beatly. One lettle O. was very breedly and came within a few beek of rue. Ne would desophears like a blasse and come who several yands any tren be both again was me at some other brown. Several Temes he Chirled and would with heir head one one side while a finish in the distance would among reded Jopher sign hough very acounty at the lower and of Heather to set out from trake and obtained one gopten. Same two manuals he has tooky langue love was greating his love and the other was beeding in The grees was the stream. The bed of the Campon, about a



Aug. 17, 1910. "[Walked to Heather Lake taking trail] by way of Grass Lake. Saw the first Ochotona in rock slides about a mile this side of Heather L. ..."

R

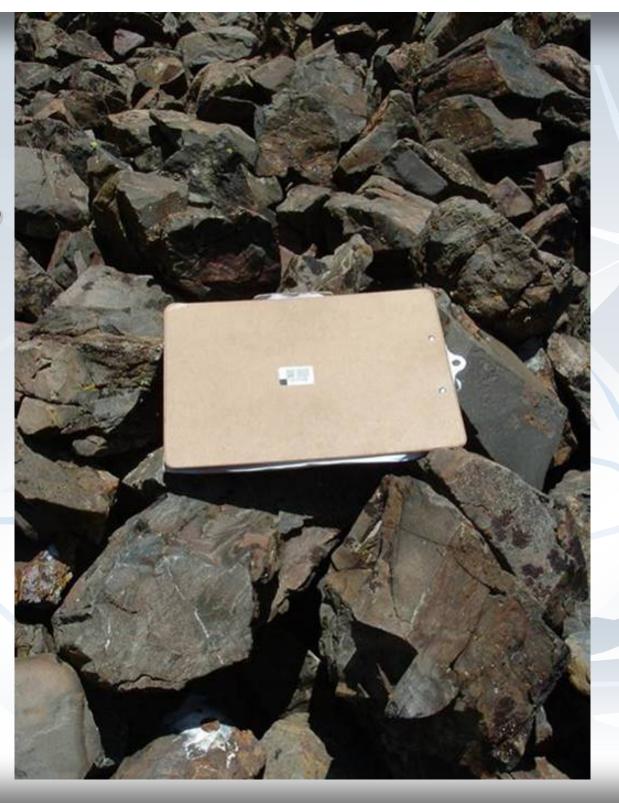
- So far, vlocalitie
 - A few
 - A fewDonne
 - Most f
 - 19 froi



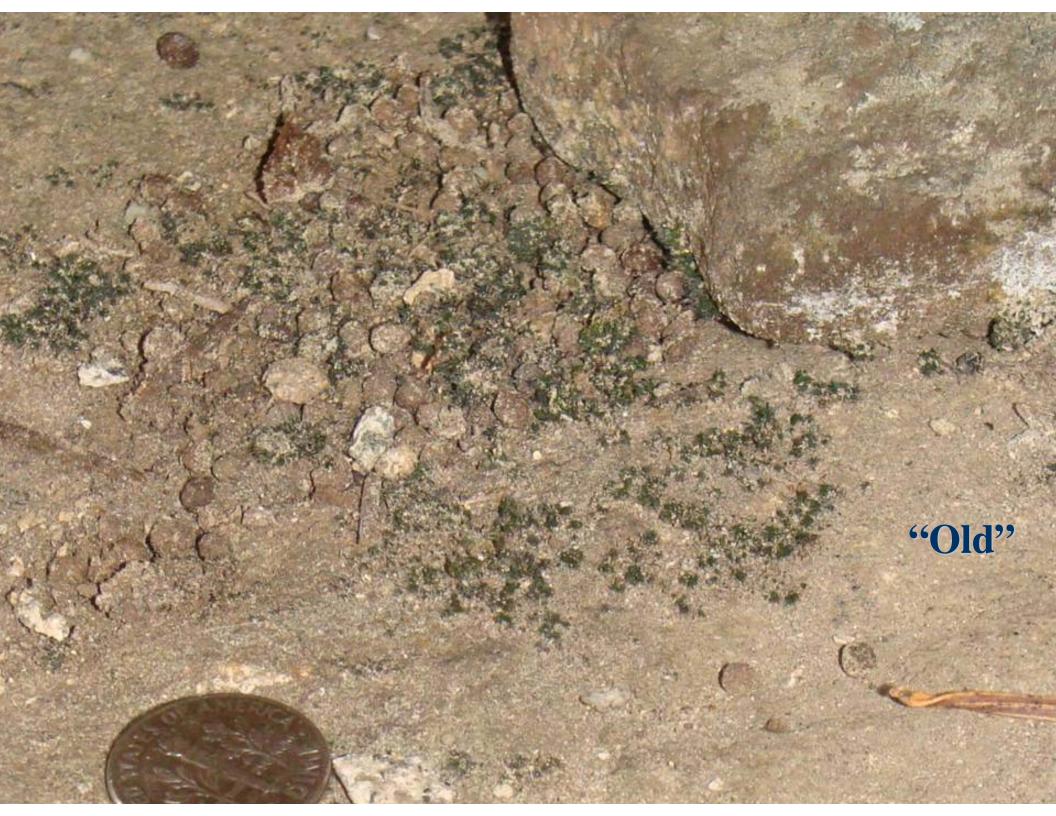
Results - Revisits

- 1 site Flatiron Mtn, near Lassen NP was revisited by John Perrine, and is presently occupied by pika (J. Perrine, pers. comm.)
- 1 site Lucille L, in Desolation Wilderness had pika specimens collected in the vicinity from both 1910 and 2002.
- We revisited 5-6 additional historic sites and found pika sign at all but 1.

"Sign"





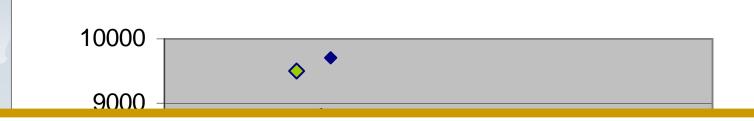




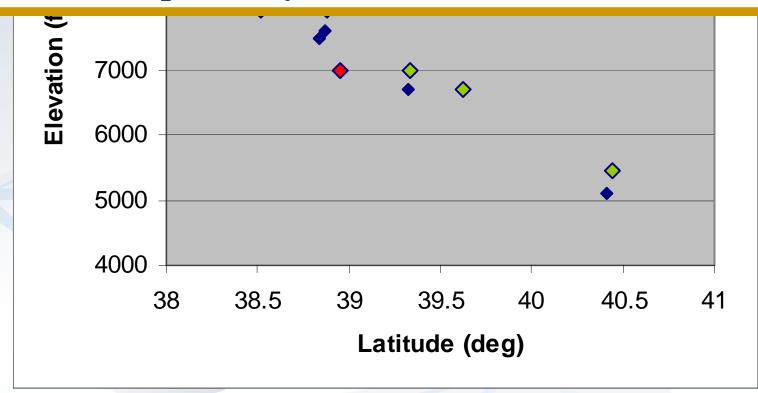


Site (Co.)	Elevation	Pika Sign
Flatiron (PLU)	5400'	All types
Deadman (SIE)	6100'	fr. scat; ?call (1)
Donner Pass E side (PLA)	6800'	calls, fr. scat
Eagle Falls (ELD)	7000'	none
Echo Pk/Angora Saddle (ELD)	8700'	calls, fr. scat
Crater Lake (ALP)	8700'	All types

Can we test elevation effects?



Maybe more importantly, need to find the lower elevation limit



Next steps ...?

- Finish revisits of historic sites
- Research and revisit any additional historic sites
- Compare and analyze with Grinnell resurveys
- Temperature loggers at strategic sites
- Investigate how long scat lasts
- Quantitative inventory of pika in Sierra Nevada
- ...

