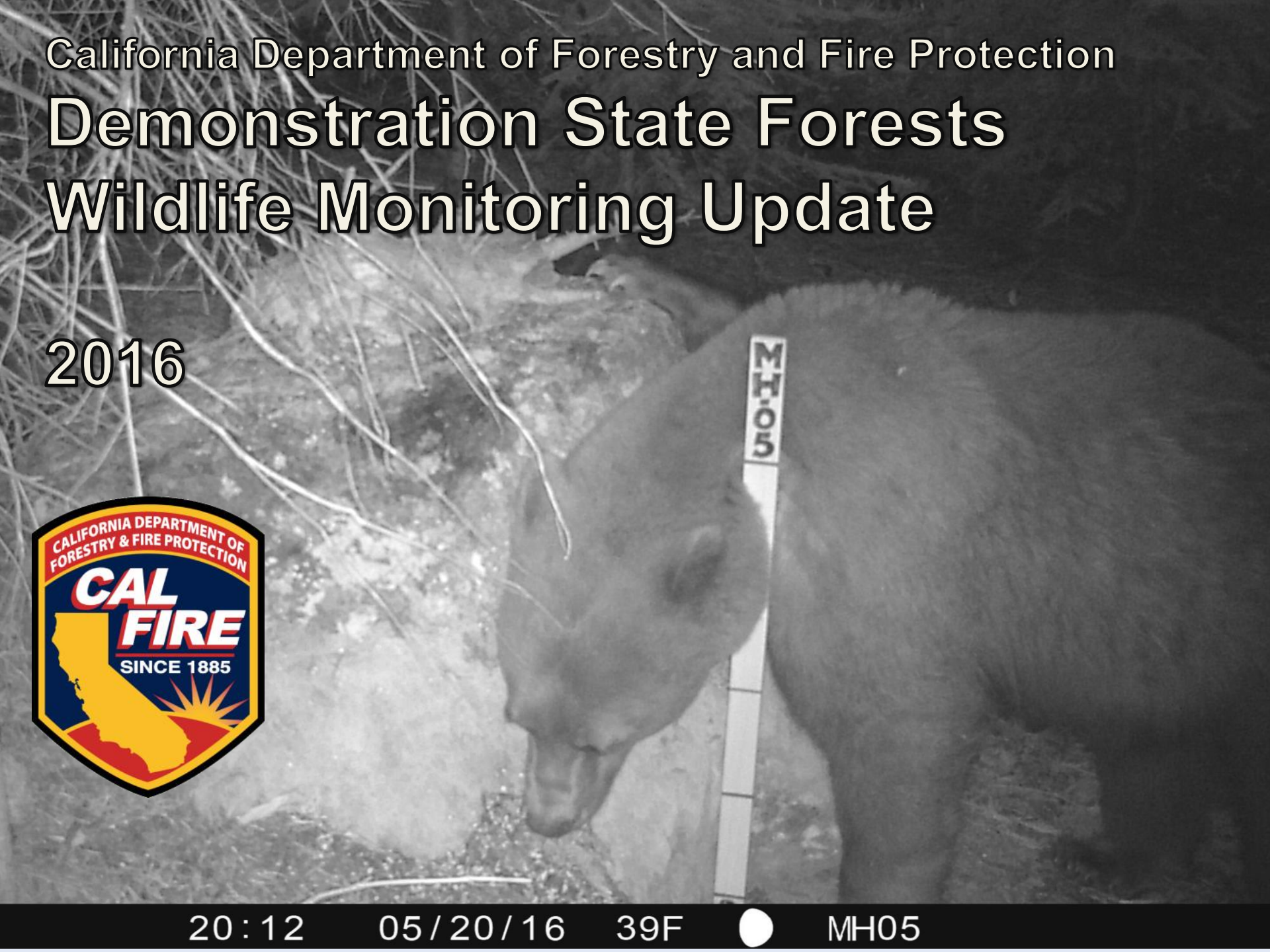
California Department of Forestry and Fire Protection

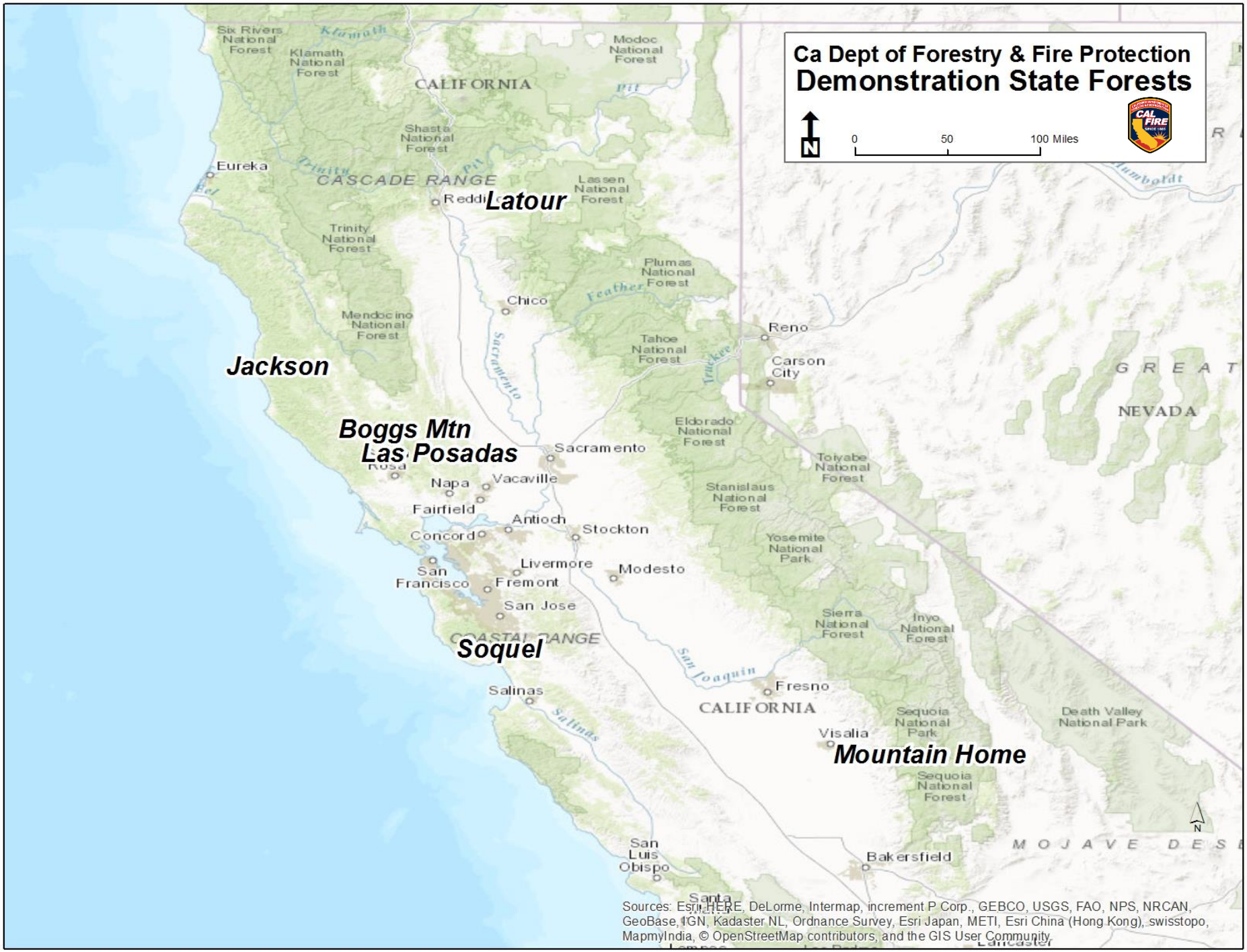
Demonstration State Forests Wildlife Monitoring Update

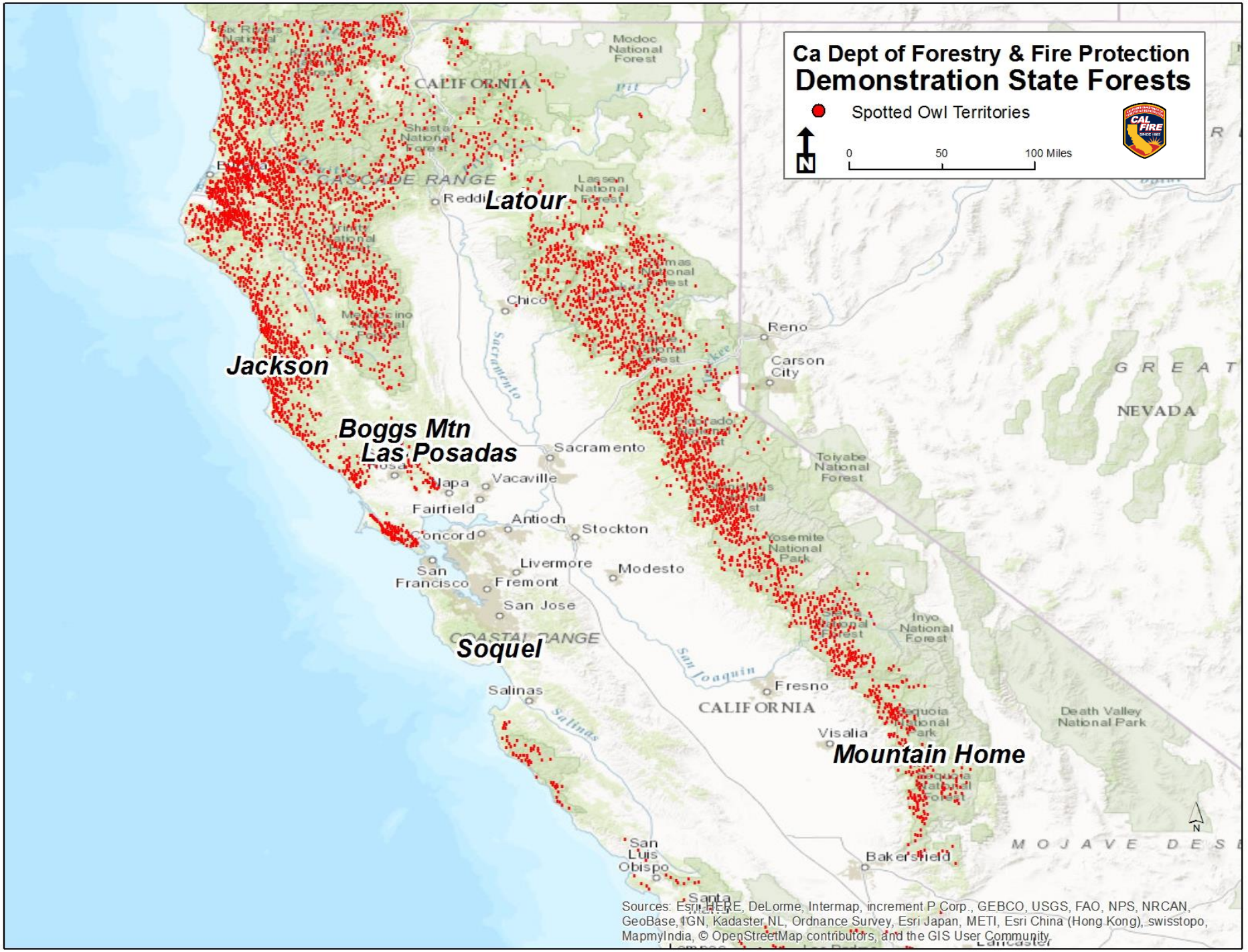
2016



Objectives

- Establish baseline wildlife data
- Develop long-term trend data
- Provide DSF staff with most current and relevant wildlife data
- Submit species occurrences to CNDDB
- CAL FIRE biologist staff remain current on wildlife monitoring and protocols


Ca Dept of Forestry & Fire Protection
Demonstration State Forests
N
0
50
100 Miles
Latour
Jackson
Boggs Mtn
Las Posadas
Soquel
Mountain Home
CALIFORNIA
CASCADE RANGE
COASTAL RANGE
NEVADA
Six Rivers National Forest
Klamath National Forest
Modoc National Forest
Shasta National Forest
Lassen National Forest
Trinity National Forest
Plumas National Forest
Mendocino National Forest
Tahoe National Forest
Eldorado National Forest
Stanislaus National Forest
Toiyabe National Forest
Yosemite National Park
Sierra National Forest
Inyo National Forest
Sequoia National Park
Sequoia National Forest
Death Valley National Park
Eureka
Chico
Reno
Carson City
Sacramento
Napa
Vacaville
Fairfield
Antioch
Stockton
Concord
San Francisco
Livermore
Fremont
Modesto
San Jose
Salinas
Fresno
Visalia
Bakersfield
San Luis Obispo
Santa Barbara
Lancaster
Pit
Feather
Sacramento
Trinity
Eel
Klamath
Truckee
San Joaquin
Salinas
Humboldt
MOJAVE DESERT
GREAT
Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community


Ca Dept of Forestry & Fire Protection
Demonstration State Forests
Spotted Owl Territories
0
50
100 Miles
N
Latour
Jackson
Boggs Mtn
Las Posadas
Soquel
Mountain Home
CALIFORNIA
CASCADE RANGE
COASTAL RANGE
GREAT
NEVADA
MOJAVE DES
Modoc National Forest
Shasta National Forest
Lassen National Forest
Plumas National Forest
Tahoe National Forest
Toiyabe National Forest
Inyo National Forest
Yosemite National Park
Death Valley National Park
Redding
Chico
Reno
Carson City
Sacramento
Vacaville
Napa
Fairfield
Antioch
Stockton
Concord
San Francisco
Livermore
Fremont
Modesto
San Jose
Salinas
Fresno
Visalia
Bakersfield
San Luis Obispo
Santa
Sacramento
San Joaquin
Salinas
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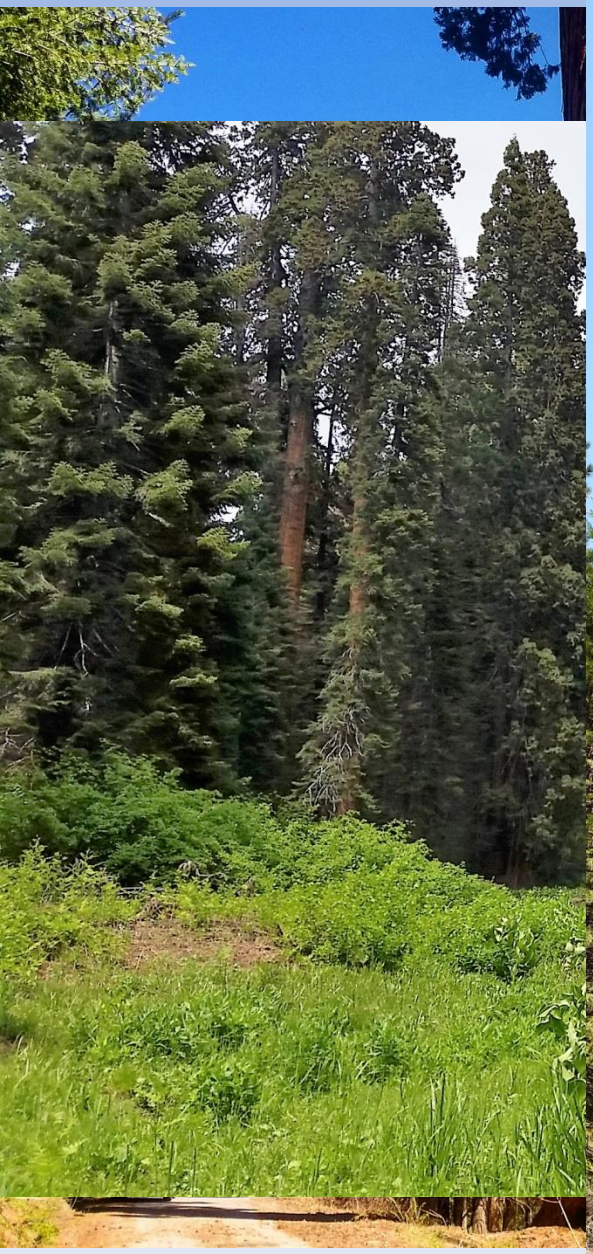
Spotted Owl Surveys

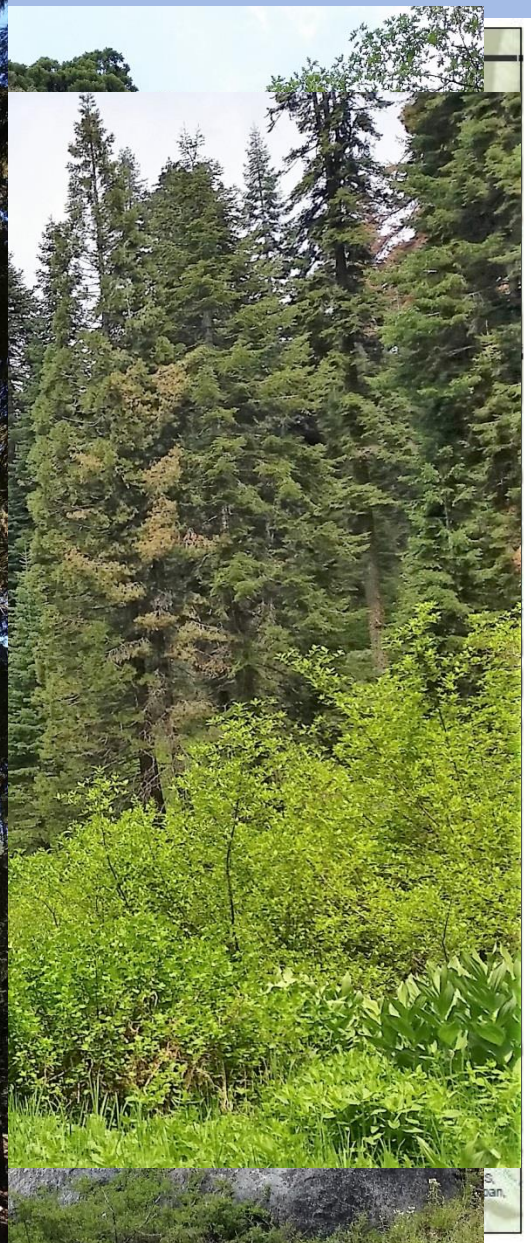
- Boggs Mtn
  - Survey history since 1990
    - Last pair detection 1999 & last detection in 2006
  - Valley Fire 2015
  - Spot Check for NSO 2016 to Abandon the AC
    - Technical Assistance from USFWS Arcata to abandon AC LAK0046
  - No further surveys
- Las Posadas
  - Survey history since 2009
  - Single detection in April 2015
  - Continuing to survey
- Latour
  - Survey history – 1990, 1993, 1994, 2006, 2007
  - Started surveys in 2016
- Mountain Home
  - Survey history – early to mid 1990s and 2004
  - Starting surveys in 2017

Wildlife Cameras

- Latour
  - Running since 2007
- Boggs Mtn
  - Start Fall 2016
- Mountain Home
  - Camera surveys 1992, 1993, 2001
    - Track Plates
  - Spring 2016 surveys
    - 6 Carnivore Stations
    - 2 Vegetarian Stations

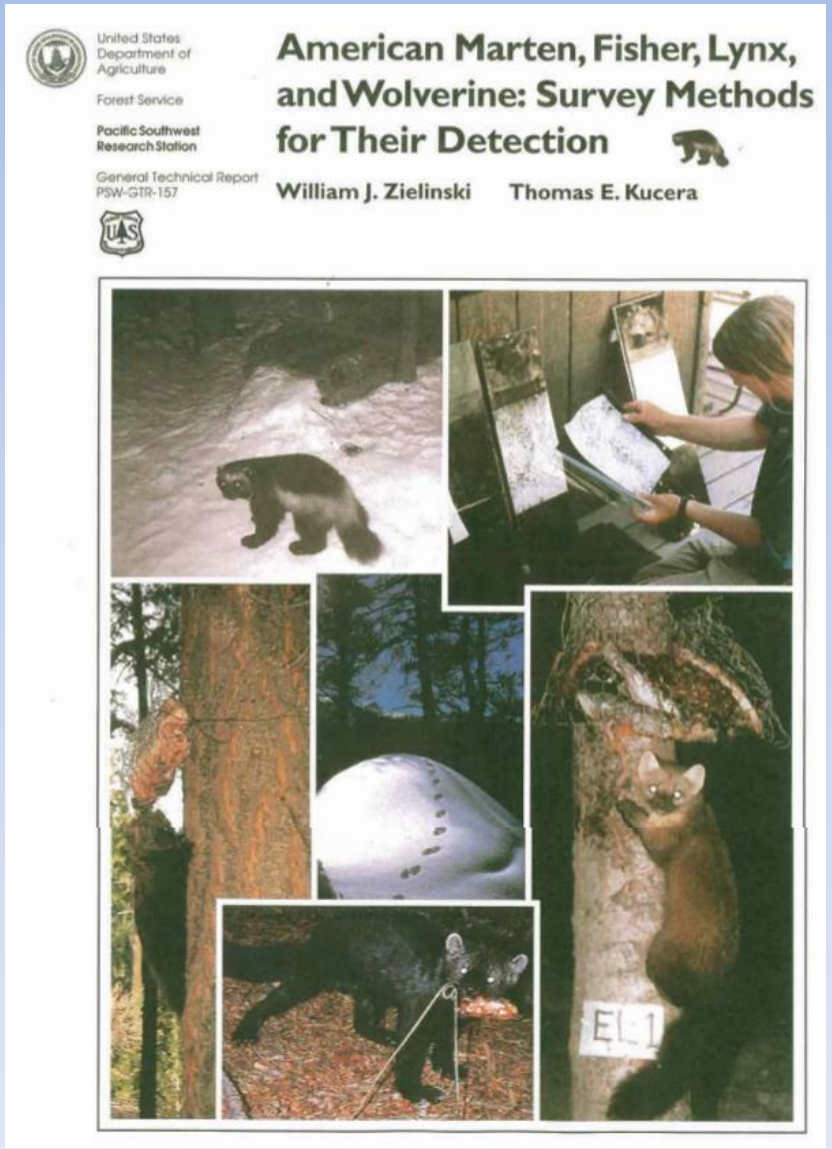
The Setting





The Protocol

- Zielinski and Kucera, 1995
- StealthCam G30
- Cameras at least 1 mile apart
- Run for a minimum of 28 days (baited for 80% of the time)
- 3-foot long “yard stick” with 6-inch increments for scale
- Aviary wire cages to hold bait



The Bait

Friskies
Liver & Chicken Dinner
Classic PATÉ
Springfield
Extra CRUNCHY
PEANUT BUTTER
Special Value
All Natural
Quick Oats
Avena Natural
Quick & Easy
Rápido y Fácil
NET WT 42 OZ (2 LBS 10 OZ) 1.19kg
CONT. NET. 1,19kg
CAVEN'S
QUALITY ANIMAL LURES
"GUSTO"
-Long Distance Call Lure-
Made Only By:

MH06
2016

The Critters

- American black bear *Ursus americanus*
- Gray fox *Urocyon cinereoargenteus*
- Common raven *Corvus corvax*
- Black-tailed deer *Odocoileus hemionus columbianus*
- California chipmunk *Neotamias obscurus*
- Western gray squirrel *Sciurus griseus*
- Douglas squirrel *Tamiasciurus douglasii*
- American marten *Martes americana*
- Fisher *Pekania pennanti*

The Critters

STEALTH CAM
07:28
06/04/16
60F
MH04

Results/Lessons Learned

- Mt. Home is species rich environment
- Mesocarnivores remain present on Mt. Home
- Adjust camera stations to capture full bait station field
- Most cameras not baited for 80% of the time
- Camera straps don’t survive well in prescribed fire settings – use bailing wire

Next Steps

- Develop Mt. Home report summarizing results
- Continue spotted owl calling & operating cameras
- Submit occurrences to CNDDB and Spotted Owl Database
- Pursue grant funding
- Augment studies
  - Hair snares
  - Track plates
- Additional studies
  - Bird Recorders
  - Cavity nesting bird surveys
- Apply for DFW Safe Harbor Agreements
- Coordinate studies
  - Ecosystem Biodiversity Monitoring with DFW
  - Blodgett Forest
- Identify monitoring needs on Soquel

Acknowledgements

- Dave Loveless
- Mountain Home DSF
  - Jim Kral
  - Alan Frame
  - Nick Bailey
- Latour DSF
  - Jed Washburn
  - Nochella Ozard
  - Thembi Borras
- Tulare Unit – TUU
  - Dave Shy
- Shasta Unit – SHU
- Lake-Napa Unit – LNU
- Mike Birondo

Questions?