

Marin Wildlife Index Project Results from Baseline Study (2014 – 2017)

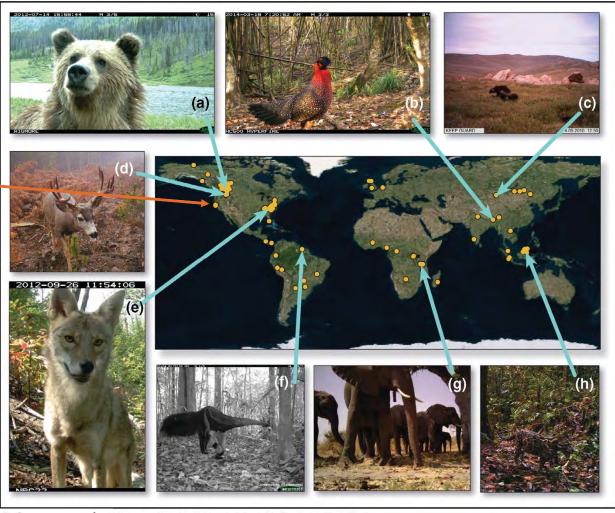




WPI IS USED ALL OVER THE WORLD

Marin County Multi Agencies





R Steenweg et al. Monitoring biodiversity with remote cameras





MARIN WPIP PARTNERS



One Tam



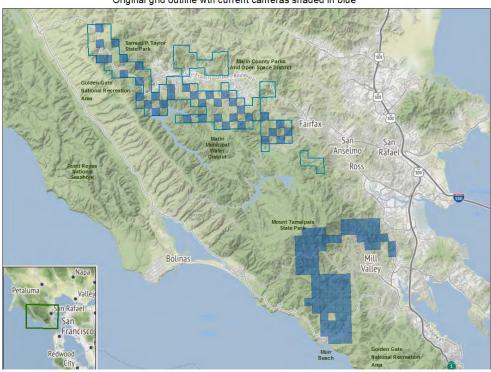








MWPIP STUDY DESIGN



Original grid outline wth current cameras shaded in blue

- 5 Jurisdictions
- 100 cameras up currently
- ~10,800 acres in study area
- Northern Array taking photos since Sept 2014
- Southern Array launched in June 2017





DATA ABOUT DATA

- 110,000 trap nights
- 3 million images captured
 - 90% processed
 - 20% processed images with wildlife
- 21,667 hours spent processing images
- 993 volunteers
- 90 cataloguing parties
- 966,000 images processed by volunteers

Currently processing 2018 and 2019 images





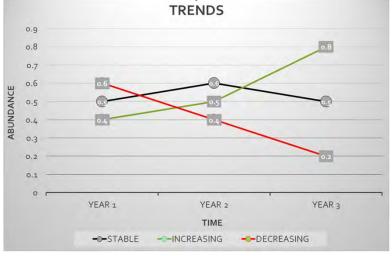






PHOTOS TO STATISTICS





- Wildlife Picture Index (a statistical technique) that takes adorable photos from motion censored cameras into a metric.
- That metric lets us understand mammal TRENDS and ABUNDANCE





WILDLIFE HEALTH



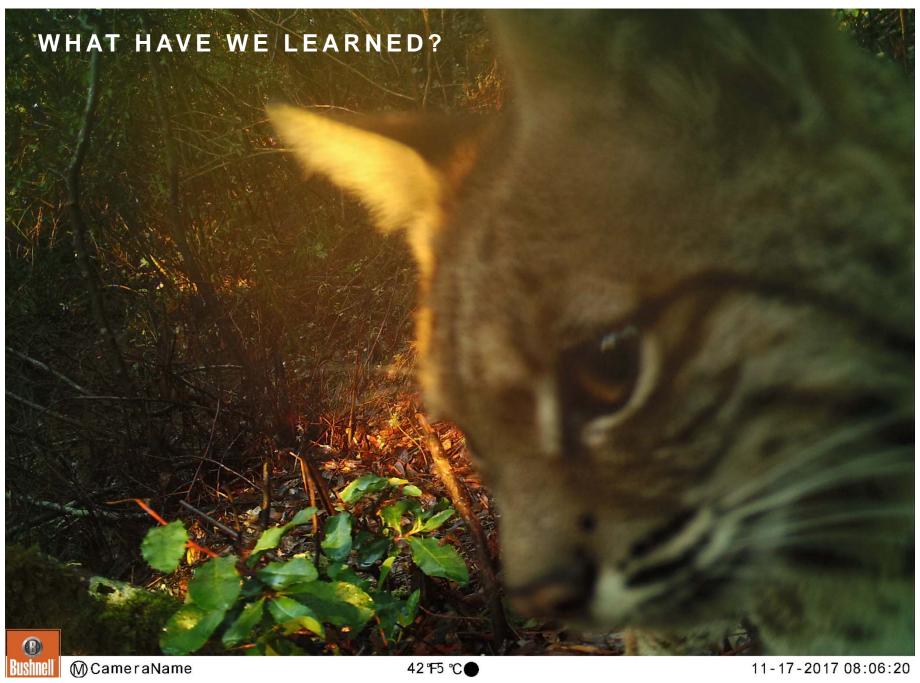
As landscape changes, what happening to wildlife?

Metrics we looked at:

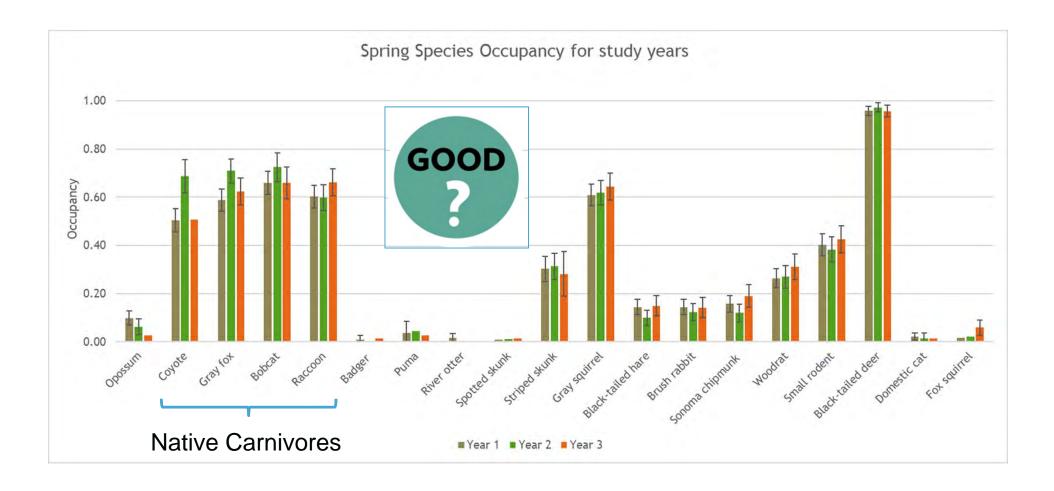
- Inventory (species list)
- Community Structure (predators:prey)
- Richness (# of different species in an area)
- Temporal Analysis (daily, seasonal, yearly)
- Rare species presence/absence







WHO'S HERE?







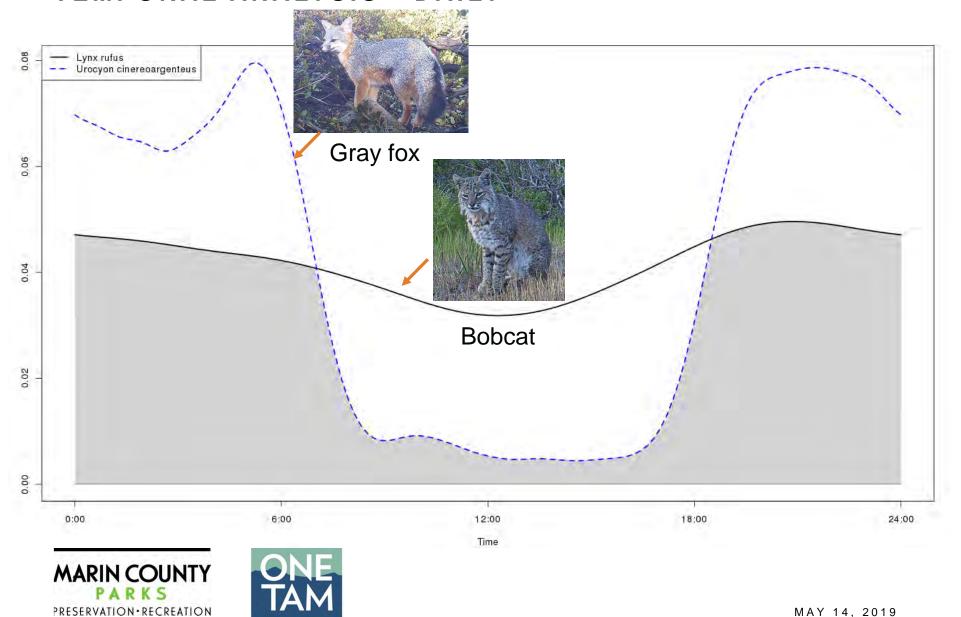
RARE SPECIES



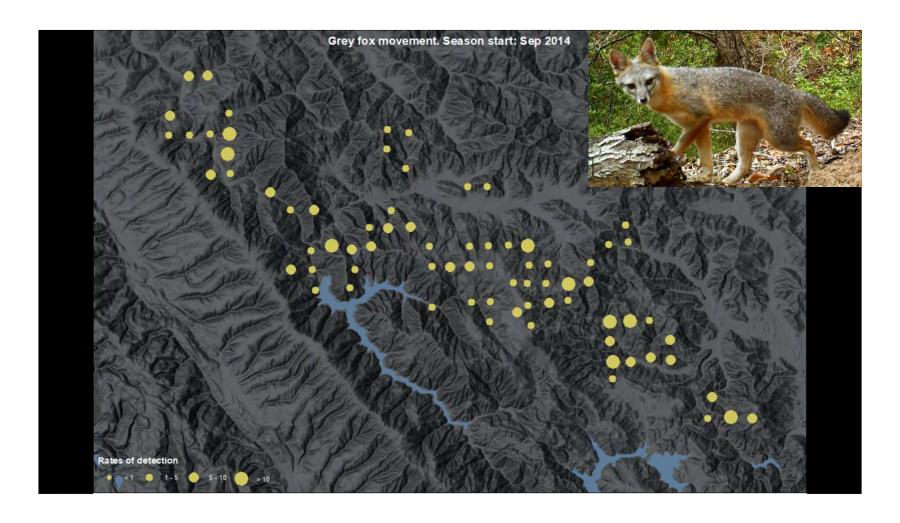




TEMPORAL ANALYSIS - DAILY



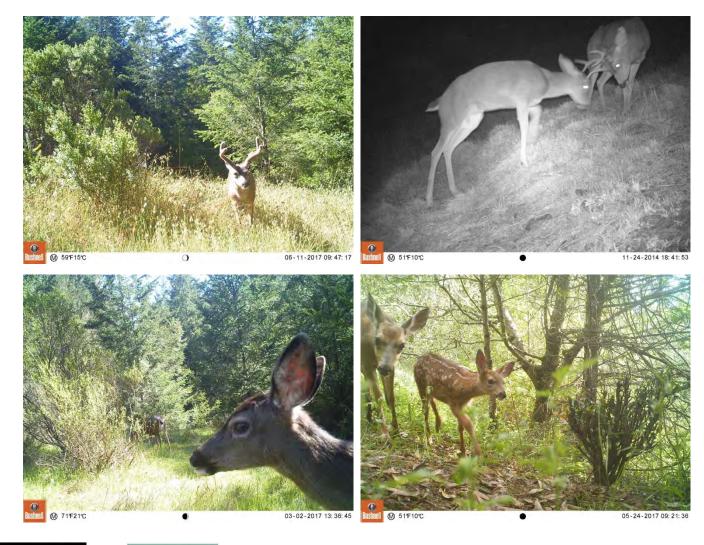
TEMPORAL ANALYSIS - SEASONS







TEMPORAL ANALYSIS - YEAR





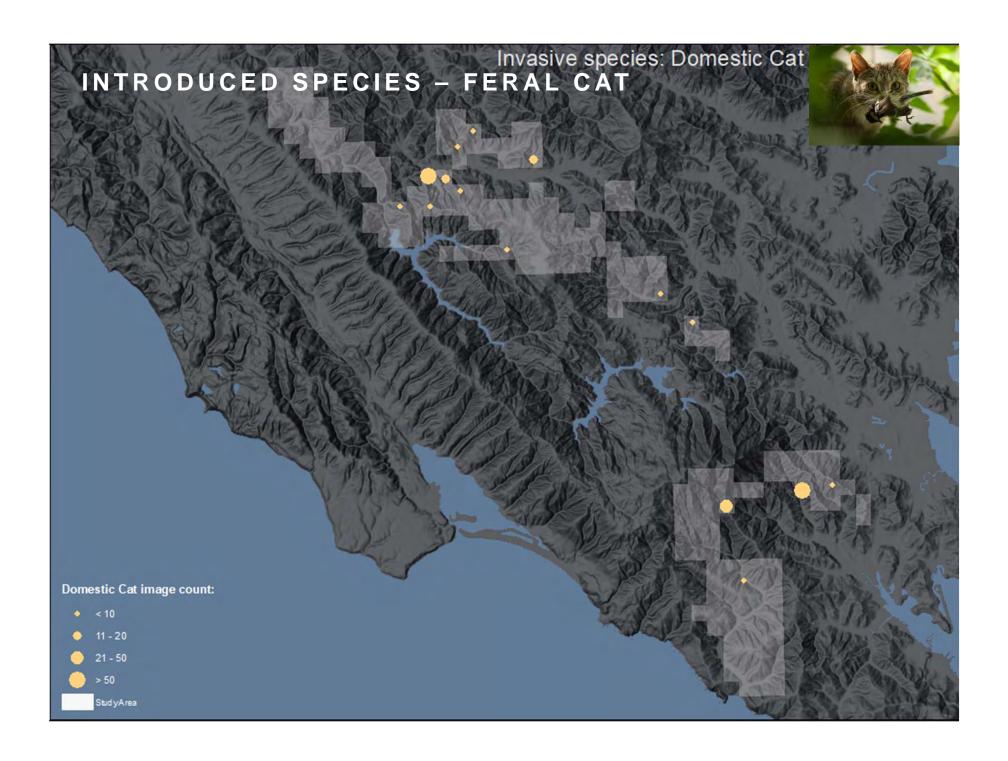


INTRODUCED SPECIES

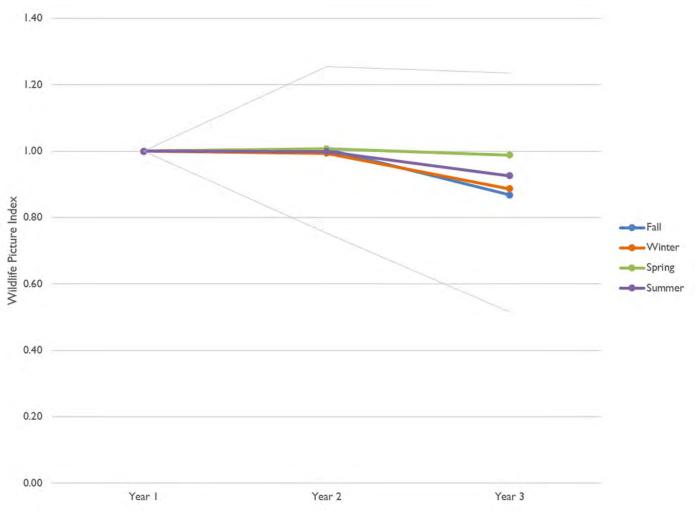








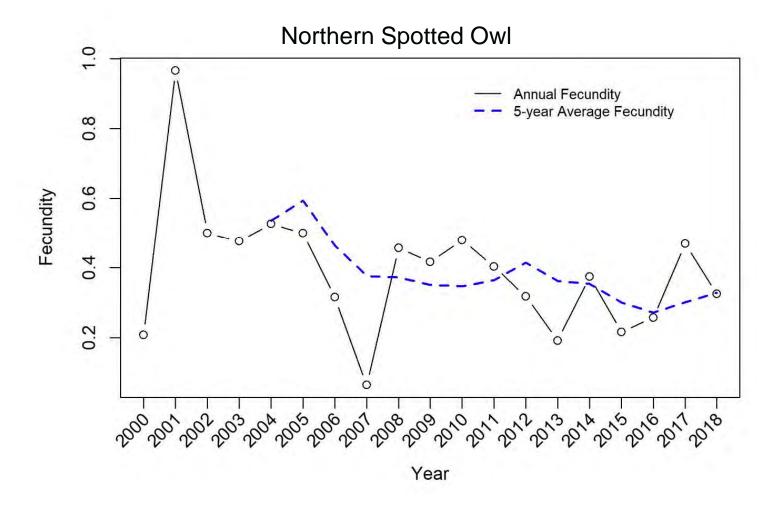
WILDLIFE PICTURE INDEX







LONG TERM DATA











To learn more or volunteer:

https://www.onetam.org/ourwork/wildlife-picture-index

https://www.marincountyparks.org/projec tsplans/land-and-habitatrestoration/wildlife-picture-index



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