



Photo by: David Ledig, Bureau of Land Management

Birds

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Outline

- Bird Injury Assessment
 - Brown Pelicans
 - Western Snowy Plovers
 - Other Birds
- Proposed Restoration



Brown Pelicans

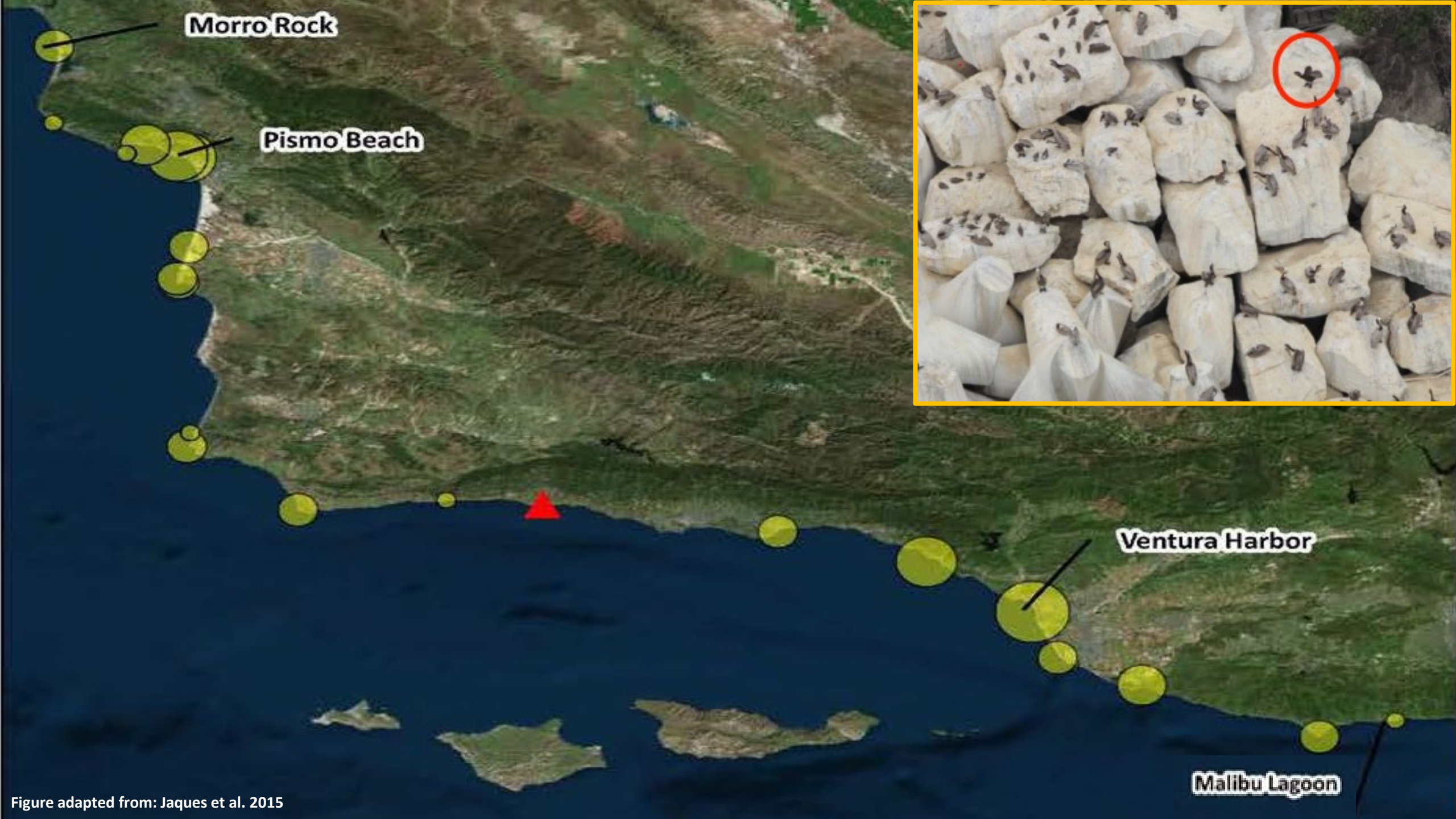
73 Captured/Collected



Photo by: A. Yamagiwa as presented in Larramendy et al. 2018

Malibu Lagoon

Figure adapted from: Jaques et al. 2015



Morro Rock

Pismo Beach

Ventura Harbor

Malibu Lagoon

Figure adapted from: Jaques et al. 2015

Brown Pelicans

Brown Pelicans Captured or Collected	73
Not spill Related	-1
Brown Pelicans Missed by the Spill Response	+ 279
Rehabilitation Credit	-32
TOTAL Brown Pelican Injury	319



Figure by: National Park Service

Proposed Restoration:

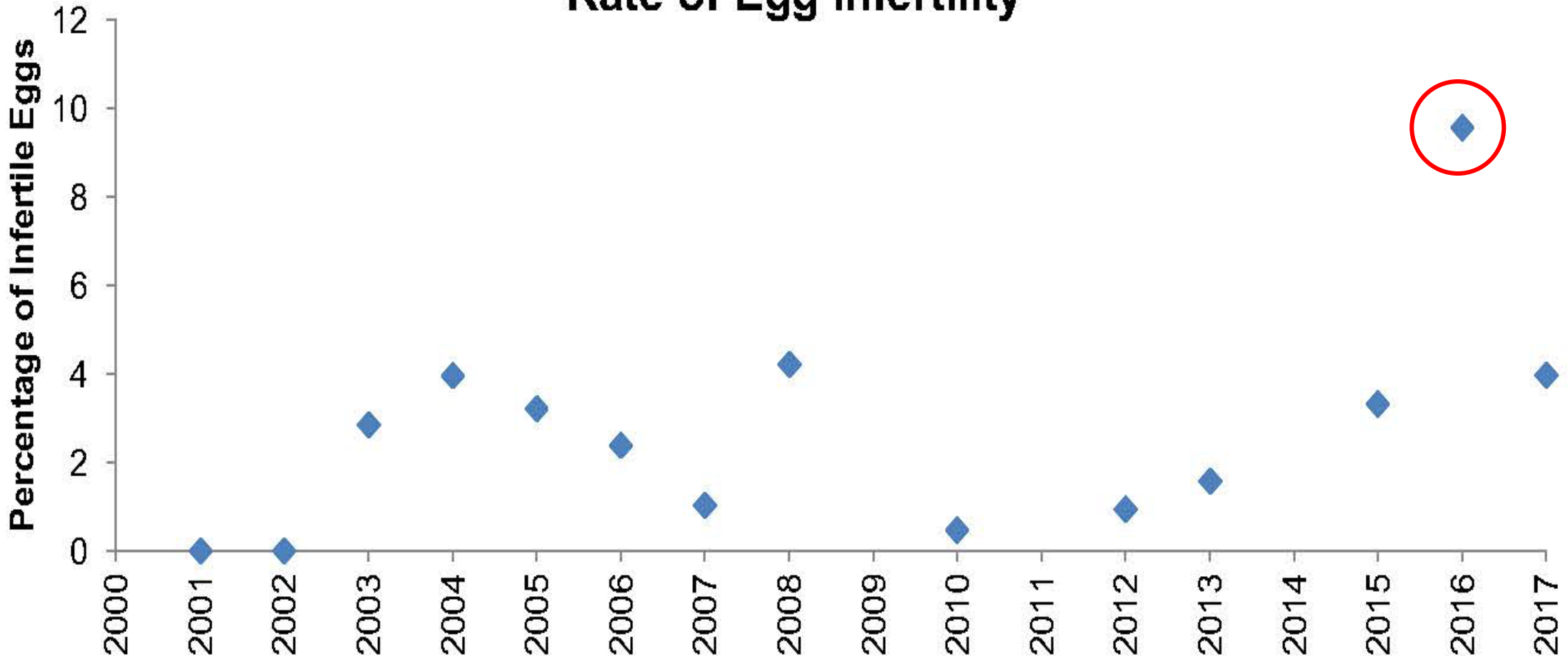
Restore nesting habitat at Anacapa Island



Western Snowy Plovers



Rate of Egg Infertility



Western Snowy Plover Nesting Sites

Refugio Incident Location



● Western Snowy Plover Nesting Locations





Photo by: UCSB, Coal Oil Point Reserve

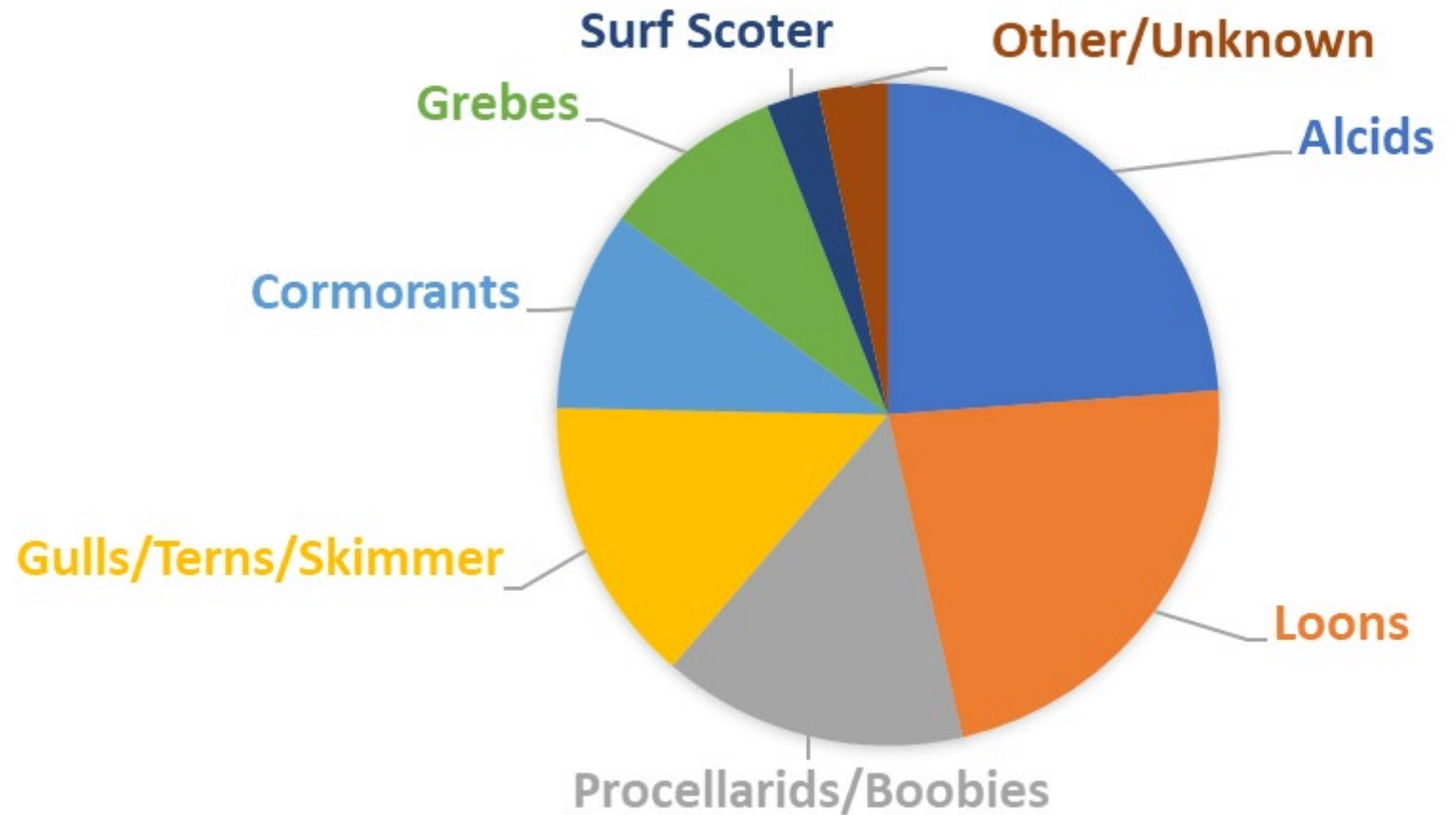
Proposed Restoration:

Plover management at Coal Oil Point Reserve



Other Birds
193 Captured/Collected

Beached Bird Model



Estimate 235 Birds Injured

Not including brown pelicans and plovers 13



Photos by: Duerr 2016, Audubon, and vtecostudies.org

Proposed Restoration:

Preventing Injury Related to Recreational Fishing



Spill Location

Plover Management at Coal Oil Point Reserve



Fishing Injury Reduction (multiple locations)



Nesting Habitat Restoration

