









Source: Esrl, Digital@lobe, @eoEye, I cubed, Earüistar @eographics, CNES/Alibus DS, USDA, US@S, AEX, @etmanning, Aerogdd, I@N, I@P, swisstong, and the @IS

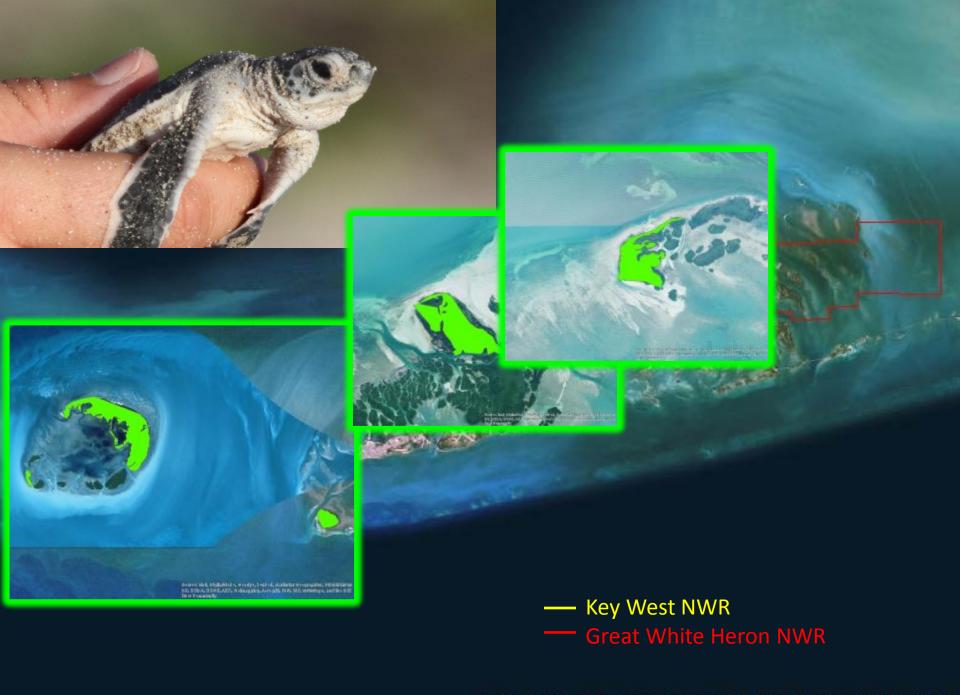


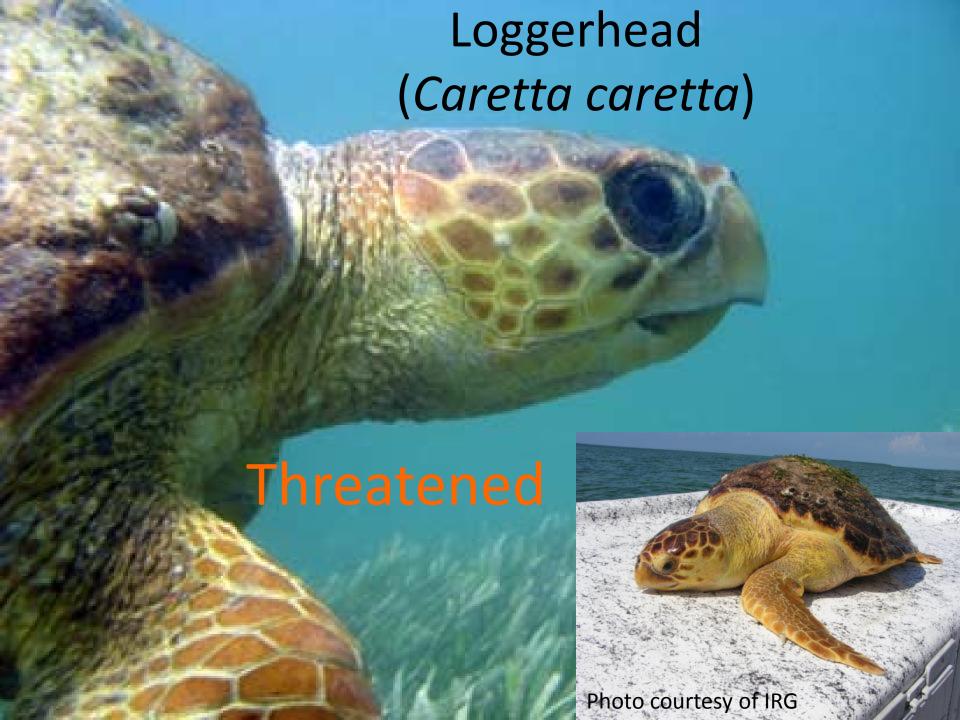






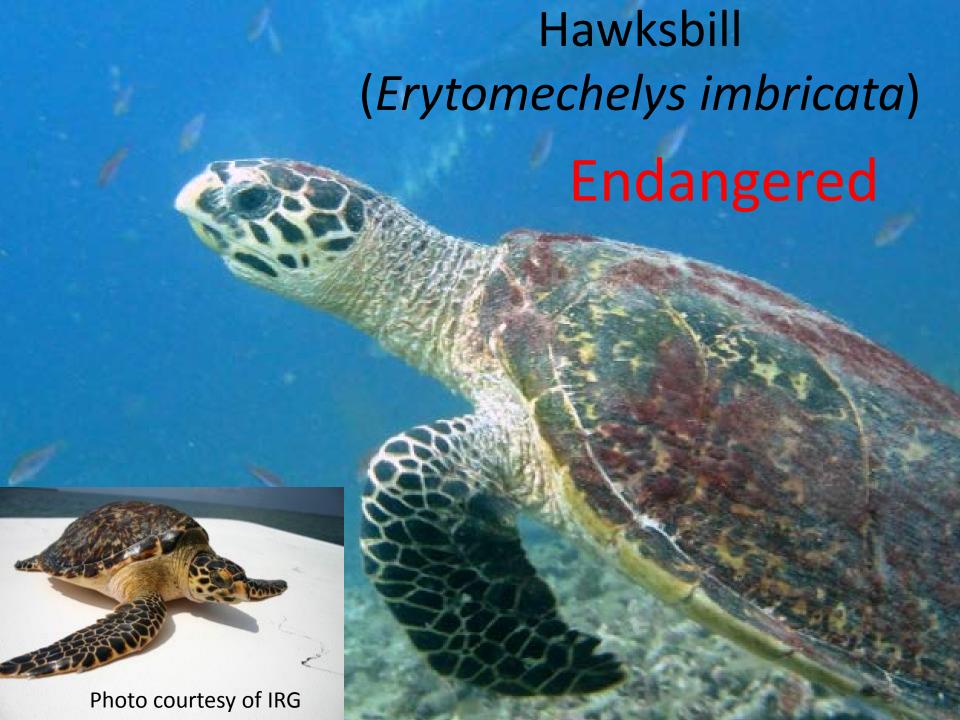












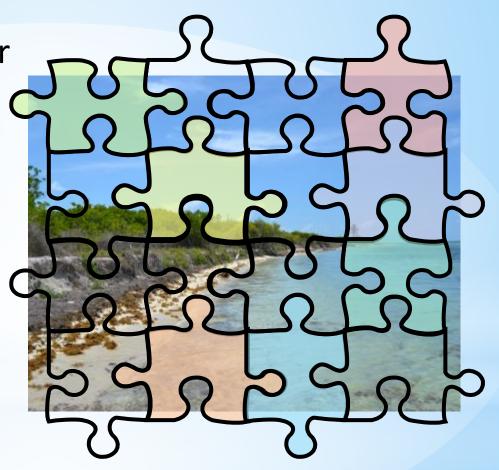


Management Challenges

 Increasing public use over large, isolated areas

Prohibited uses=

- Disturbance to wildlife
- Habitat damage
- Loss of wilderness character
- Hurricanes
- Sea level rise/erosion



Recovery actions

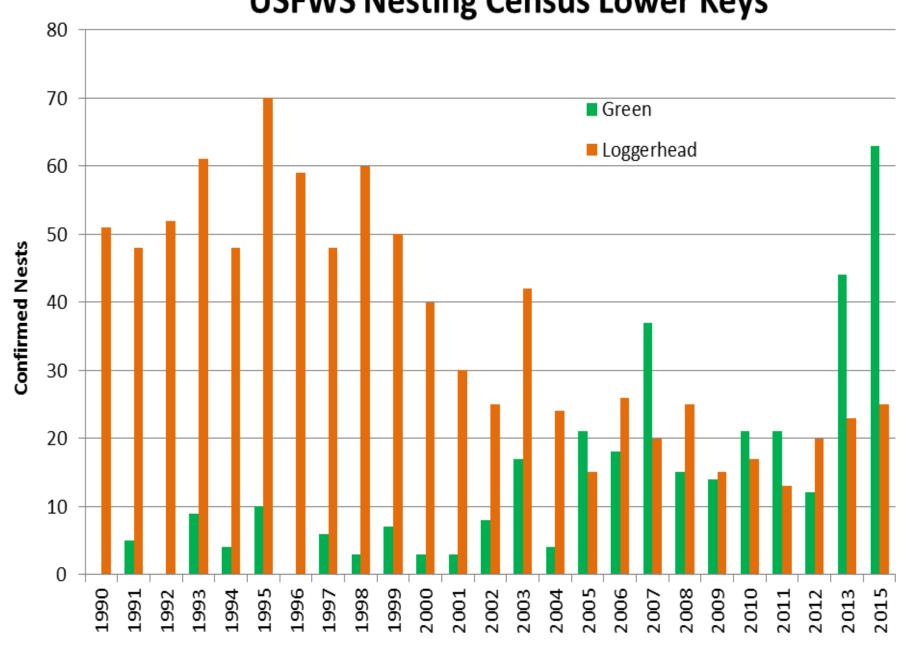
- Protective measures
- Monitoring of nesting beaches and productivity
- Maintaining existing habitat
 - Informing public on site and outreach (prevention)
 - Restrictions on use
 - Removal of debris
- Collaborate with local, state, and federal groups

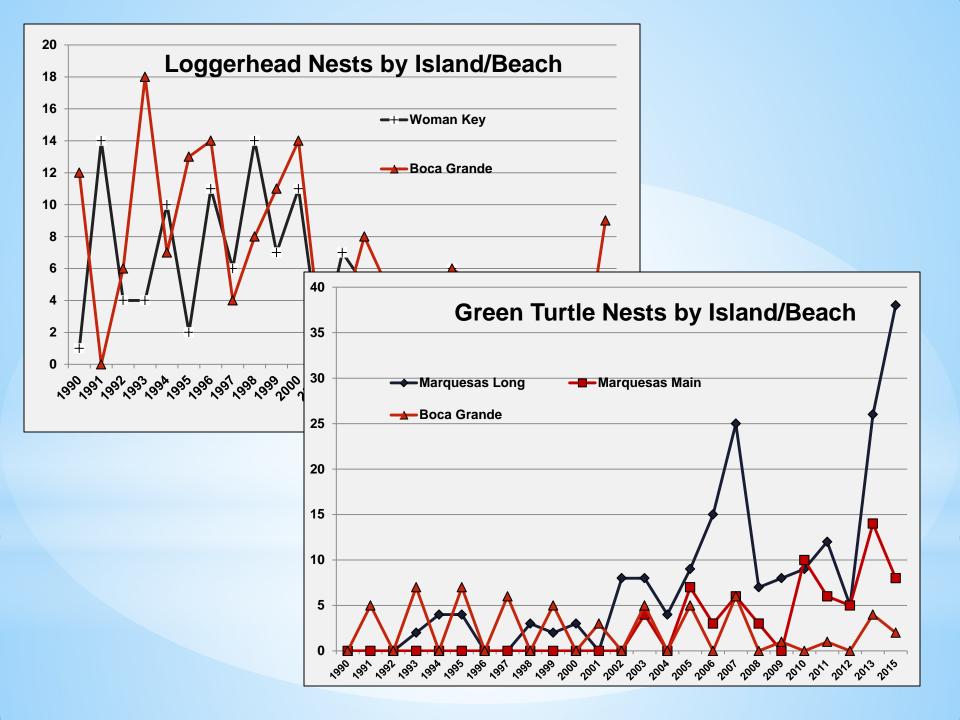






USFWS Nesting Census Lower Keys

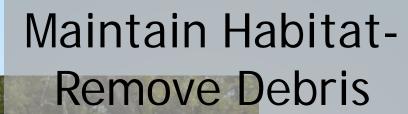
















Teamwork











Lower Keys Marsh Rabbit

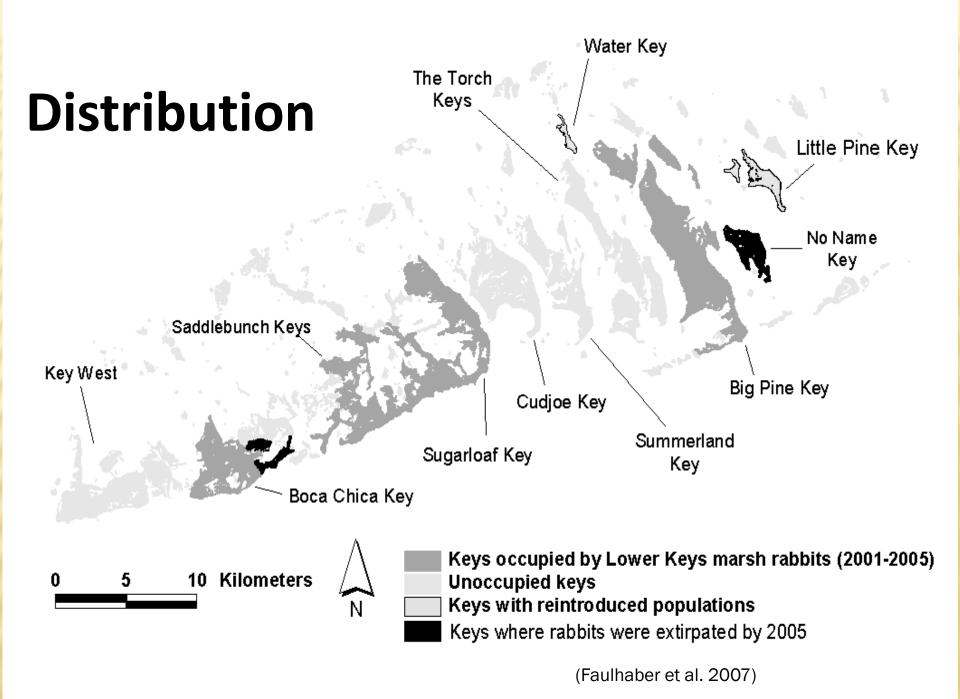
(Sylvilagus palustris hefneri)



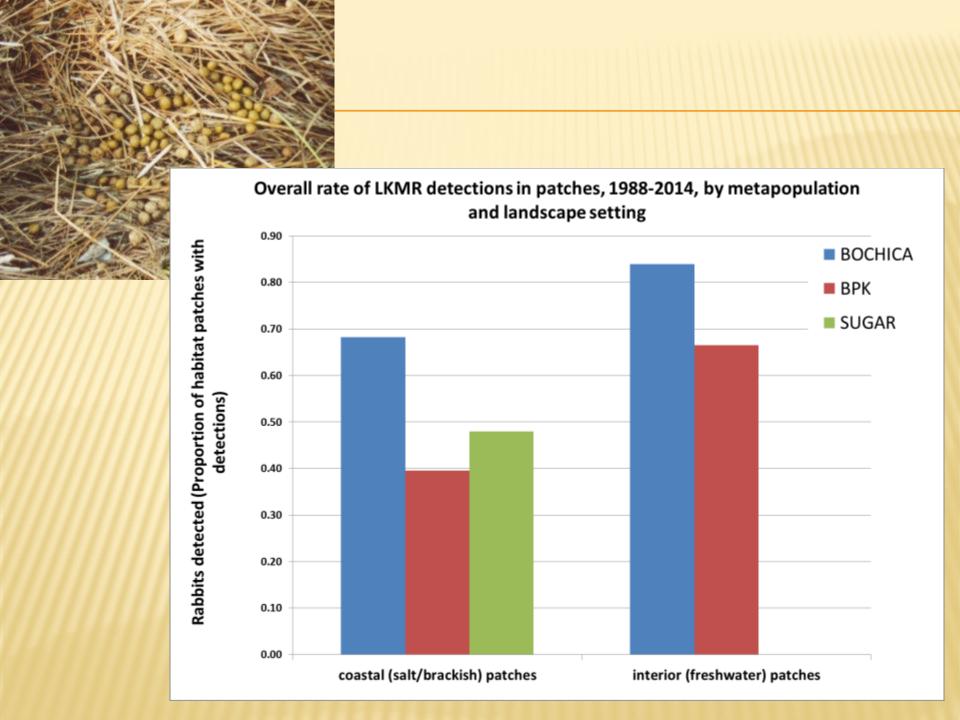
Habitat



- Grassy marshes and prairies (e.g. saltmarsh) important habitat for LKMR (USFWS 1999)
- Transition zone of grasses and sedges used for feeding, shelter, and nesting
- LKMR select for open areas with dense herbaceous vegetation (Perry 2006)







Overall average LKMR pellet abundance in patches, 1988-2014, by metapopulation 2.5 Average relative abundance of pellets in habitat **BOCHICA** BPK SUGAR 3 \$ 2.0 patches (relative scale, ranging 1.5 1.0 0.5 0.0 2010 2015 1990 1995 2000 2005

Management Challenges/Recovery actions

- Loss of habitat
 - Development
 - Exotic vegetation
 - Natural succession
- Predation by free roaming cats
- Road mortality



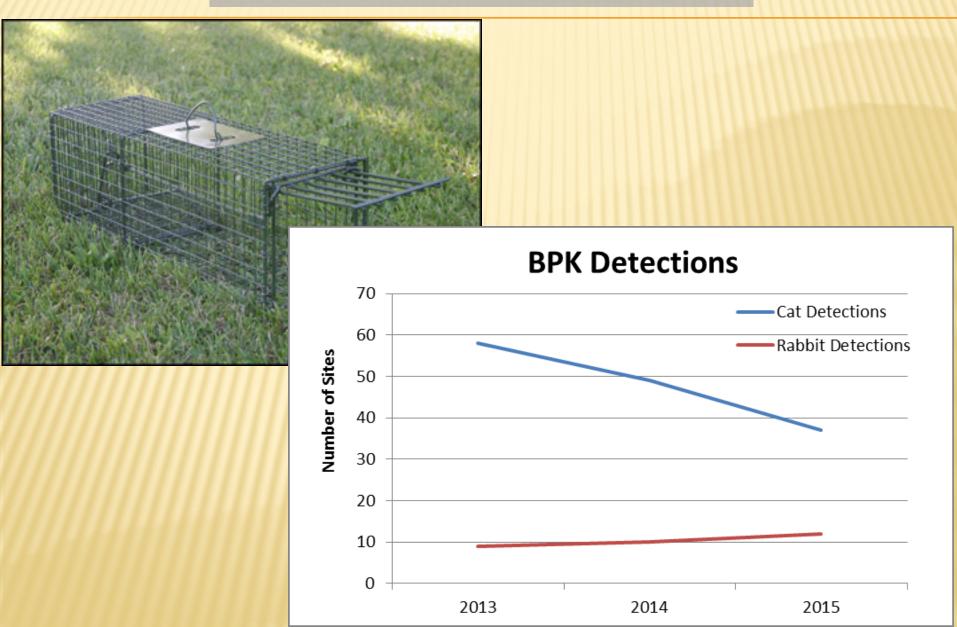
- Rangewide monitoring & research
- Reducing predation pressure
- Maintain existing habitat



Cat predation represents a deterministic threat that undermines all habitat management techniques-(Forys and Humphrey 1999)



Predator Management



Predator Management Outreach



Educating the public on responsible pet ownership that protects wildlife

Maintain Habitat-Exotic Plant Removal



Prevents monocultures from forming and allows native vegetation to persist



