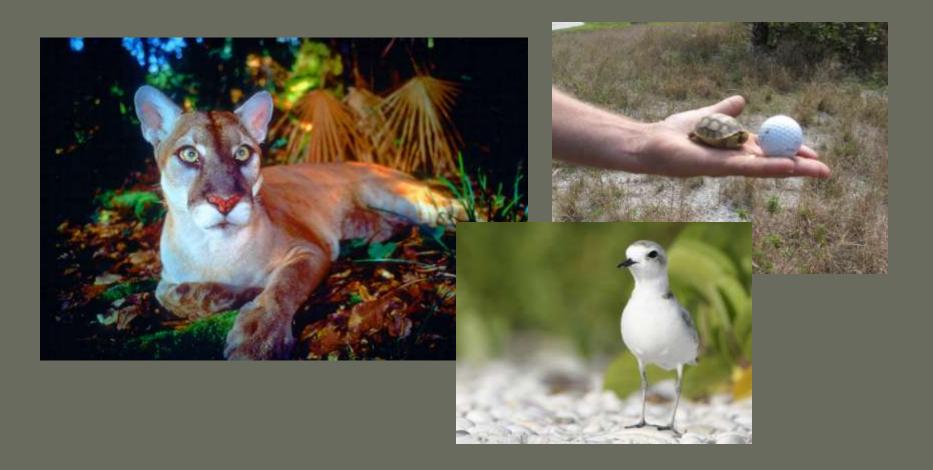
Pro Bono GIS for Conservation



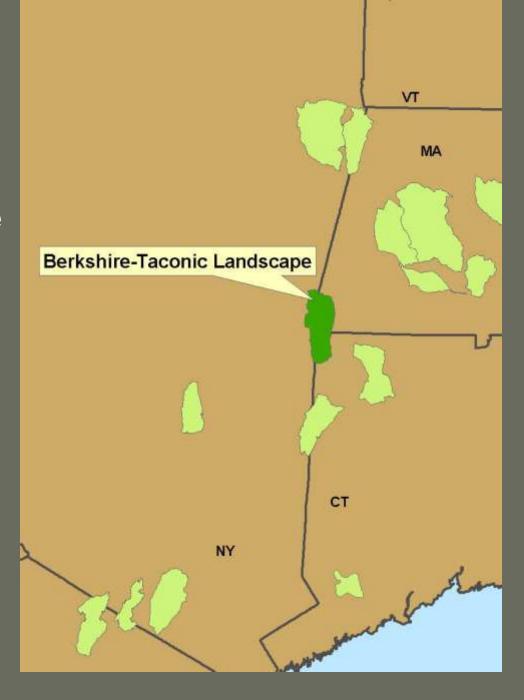
Or Re-defining Retirement

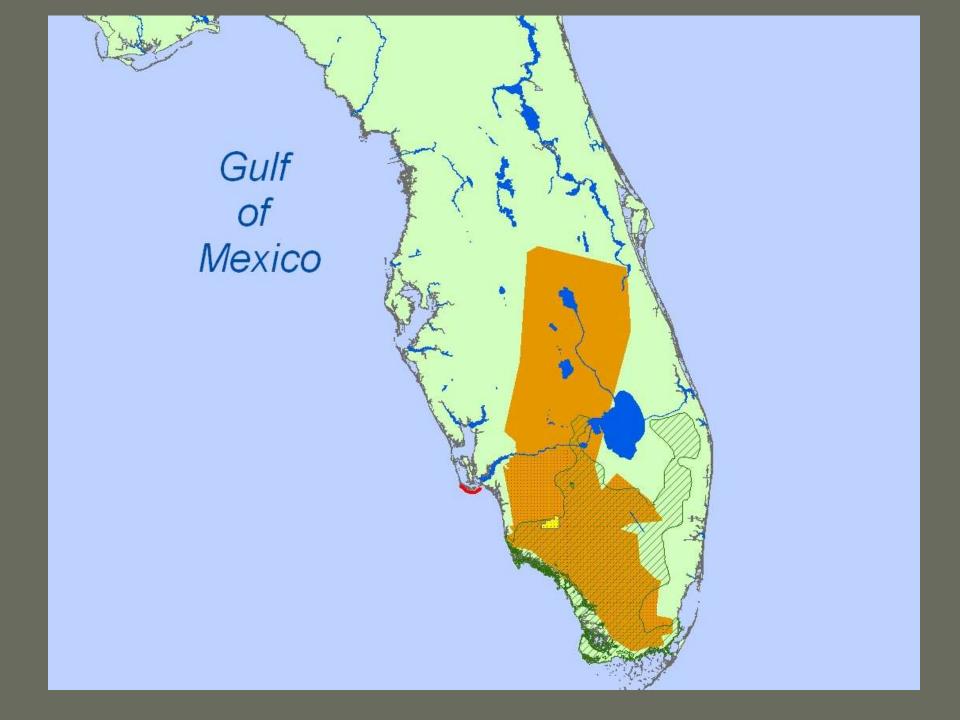
Post-retirement segues:

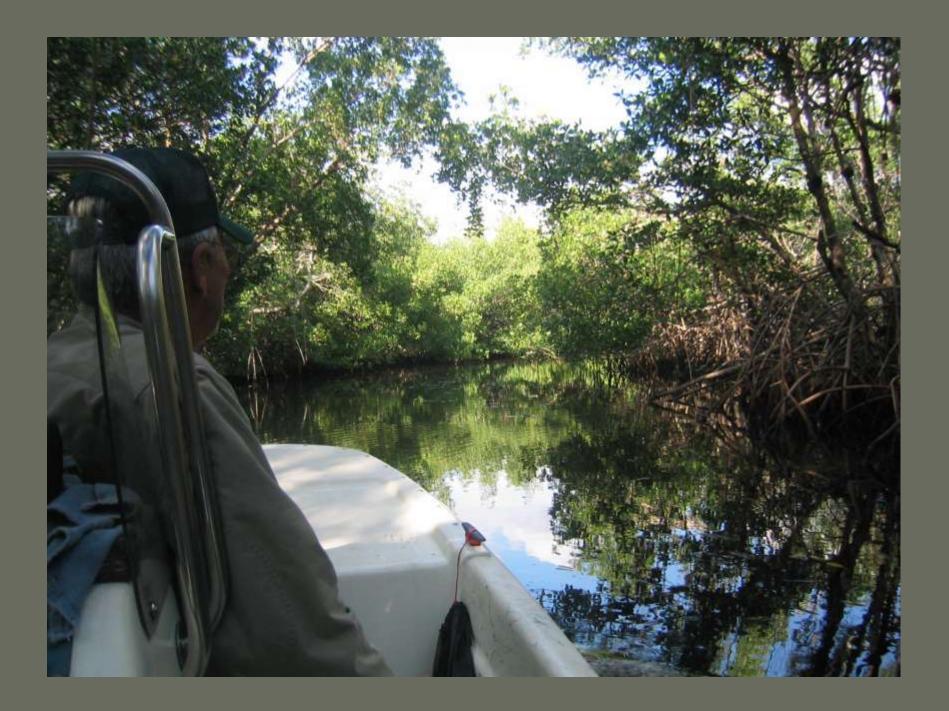
- Timber rattlesnakes/alligators
- Forest interior birds/Snowy plovers
- Freshwater turtles/Gopher tortoises
- Invasive species everywhere and increasing dramatically
- Florida panthers: in a conservation class of their own

TNC's Berkshire-Taconic Landscape Program

- 36,000-acre forest core in good condition
- One of the largest remaining intact forest blocks in lower N.E.
- Contains rare natural communities and patch occurrences of rare species

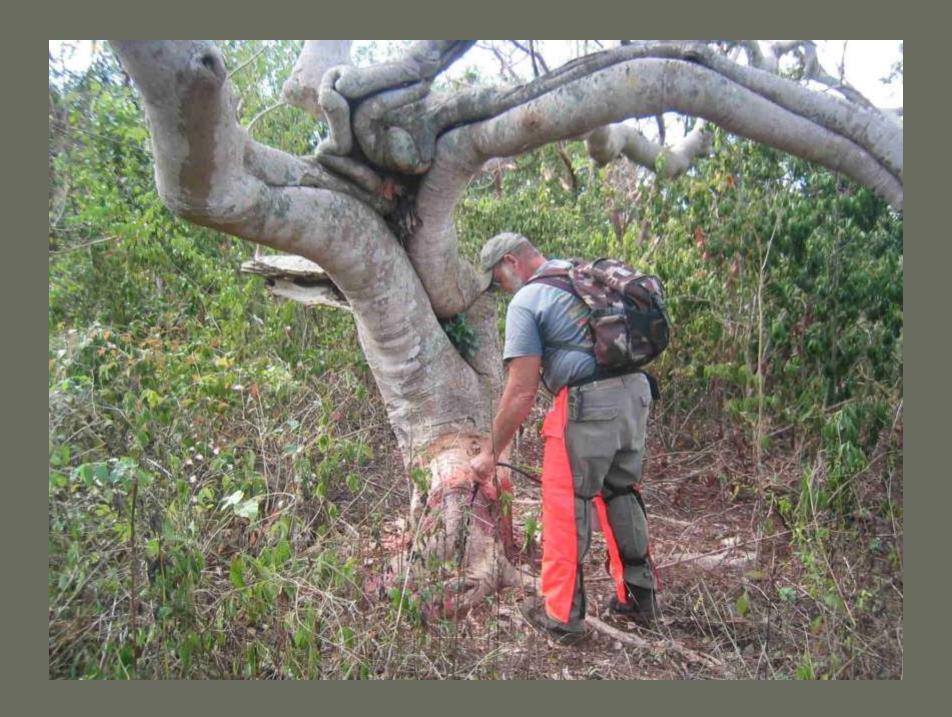




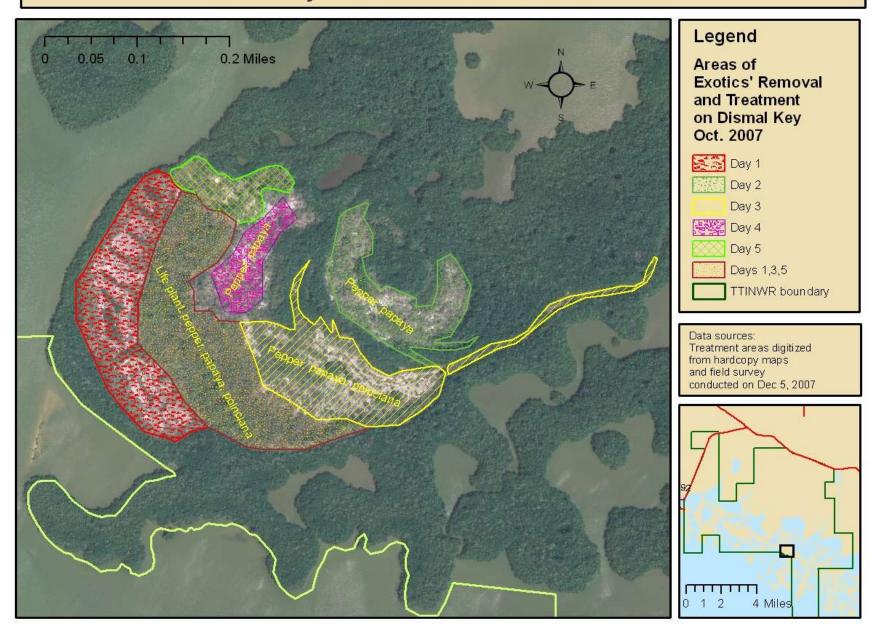








Dismal Key Exotics' Removal Oct 07 TTI NWR



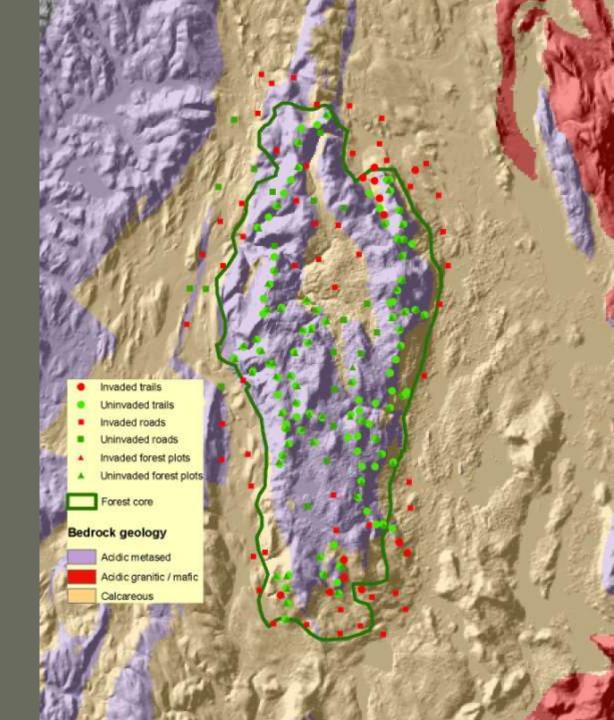
ELUs

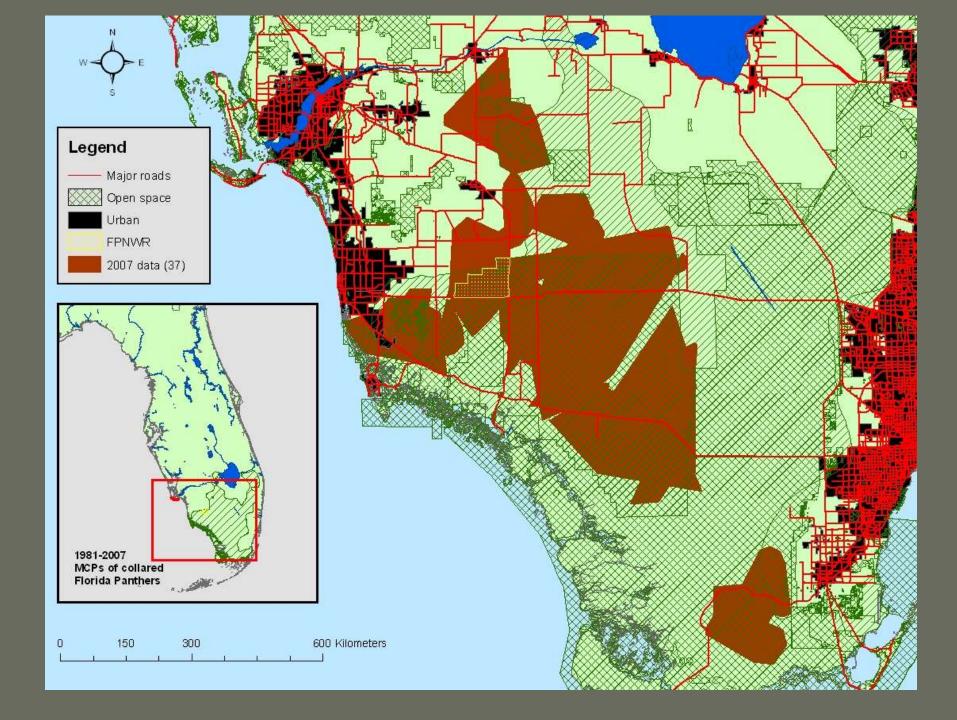
gently
sloping,calcareous
lands (56% infested)
compared with
gently sloping acidic
sed/metased lands
(22.9% infested)

P<.025

gently
sloping,calcareous
lands (56% infested)
compared with
summits
(0% infested)

P<.001

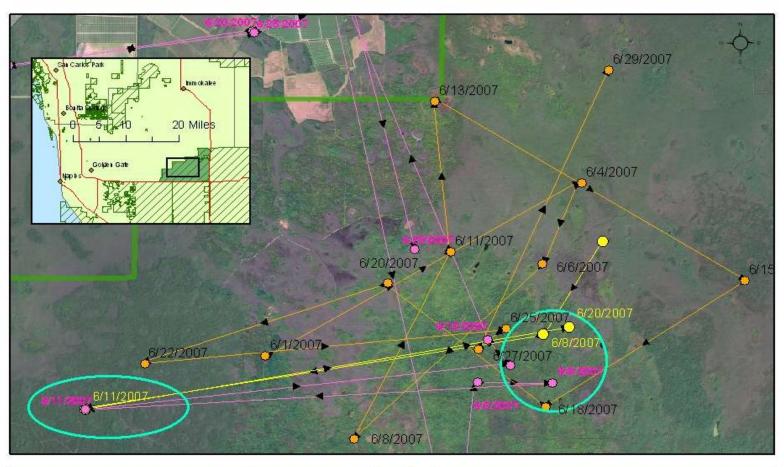


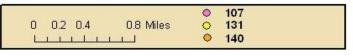






Panthers 107, 131, and 140 in Florida Panther NWR June 2007





















The Future for Florida Panthers

- As an endangered species, the panther must be considered in any major conservation/restoration program, including CERP: the Comprehensive Everglades Restoration Plan
- This past June a new \$150 million conservation plan was announced to establish corridors on private lands, primarily agricultural, to connect areas of protected panther habitat.
- More panther-friendly road-crossings are planned for areas of high mortality.
- The Florida Fish and Wildlife Conservation Commission and the Florida Panther National Wildlife Refuge engage in extensive public education programs to create public support in the heavily populated urban and residential areas abutting panther habitat.
- Numerous "friends" groups, including schools, contribute to conservation of the species with donations and political support

Snowy Plover with chicks

Photo by Hugh McLaughlin





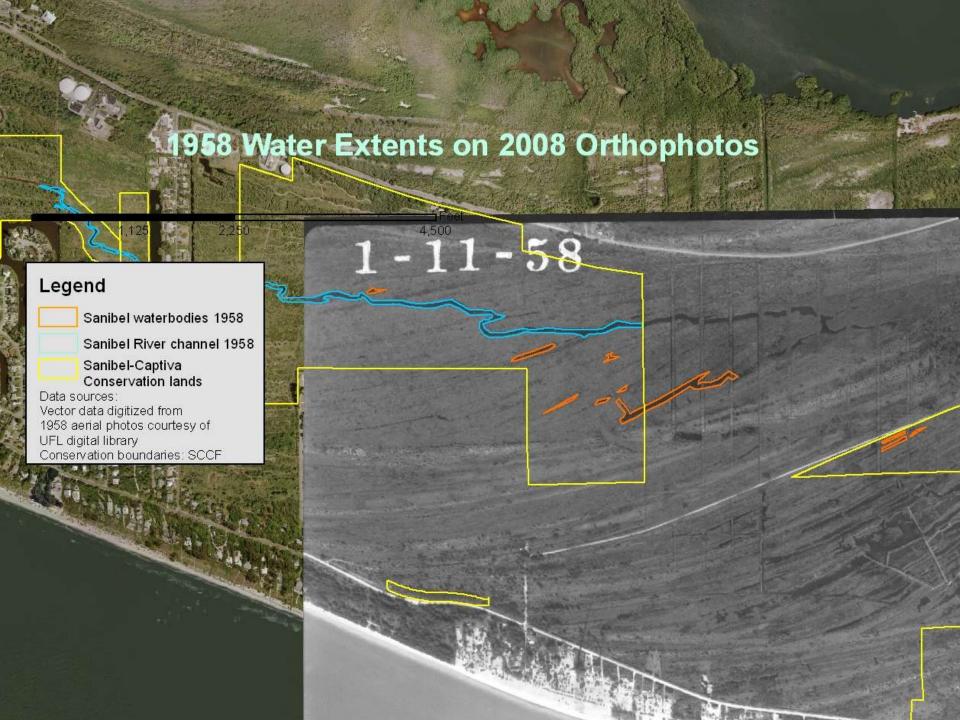


Index to Snowy Plover Project Maps for East Sanibel, Fl Sanibel Captiva Conservation Foundation









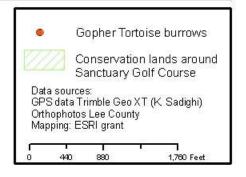






Gopher Tortoise Burrows in the Sanctuary Golf Course 2009



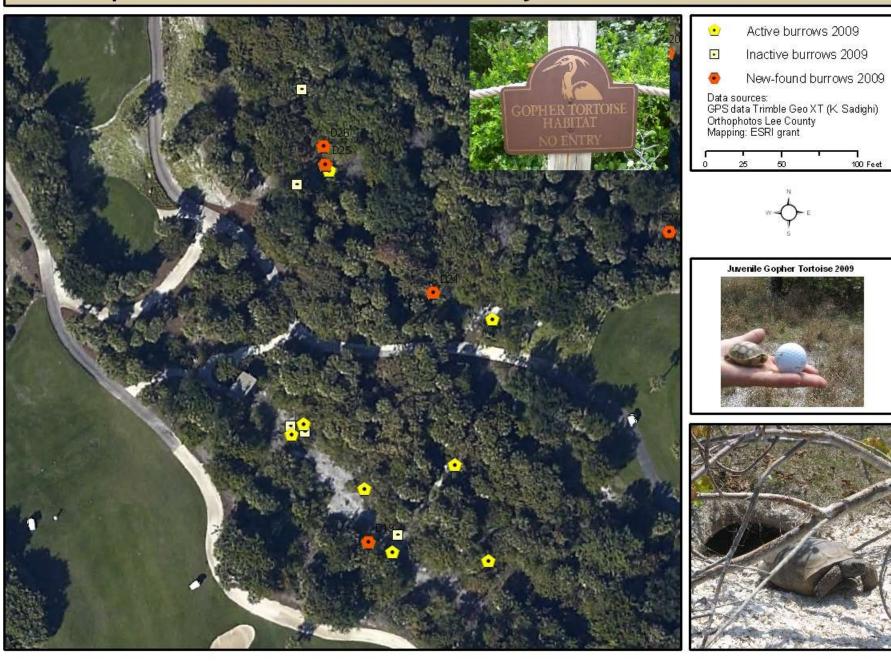








Gopher Tortoise Burrows in the Sanctuary Golf Course Area D 2009



Summer of 2009

- Mapping restoration projects for both Berkshire Natural Resource Council and The Nature Conservancy in Western Massachusetts
- GPSing locations of several endangered species and mapping their habitat

Thanks to:

- ESRI for a Pro Bono Conservation GIS grant
- Brad Smith, Sanibel-Captiva Conservation Foundation
- The Florida Fish and Wildlife Conservation Commission telemetry team: Mark Lotz, Darrell Land, Dave Onorato, and Marc Criffield
- Hugh McLaughlin, Mark Lotz, and Larry Richardson: photography
- Florida Panther NWR, DingDarling NWR, The Nature Conservancy, Berkshire Natural Resource Council