Habitat-based Fishery Assessment



For: FKNMS Sanctuary Advisory Council Meeting October 16, 2012

Brooke Denkert, Bonefish & Tarpon Trust

Outline

- I. Introduction to BTT
- II. How we conduct science and conservation
- **III.** Project justification
- IV. Methods
- V. Continuing efforts

I. BTT's Foundation and Purpose

 Founded in 1997 to support research, education, and conservation of bonefish and tarpon

• Proactive conservation organization

• Science-based conservation organization

I. What Is BTT?

Member-driven

- Member donations and participation are essential
- Sponsor Collaboration
- Resources are allocated toward the organization's mission
 - Understanding and conservation of bonefish, tarpon, and permit populations and the fisheries they support
 - Sustain healthy fisheries
 - Restore fisheries that have declined

II. Science-based Conservation

• Three-step process:

1. Define research and funding priorities based on scientific and conservation need

2. Fund and conduct scientific research based on priority ranking

3. Information applied to conservation, education, and management

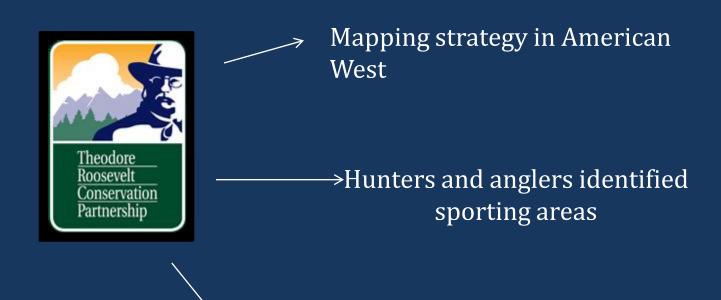
III. Habitat-based Assessment

- BTT, TNC, Keys Keeper collaboration

 Innovative methods for sustainable resources
- Habitat Mapping

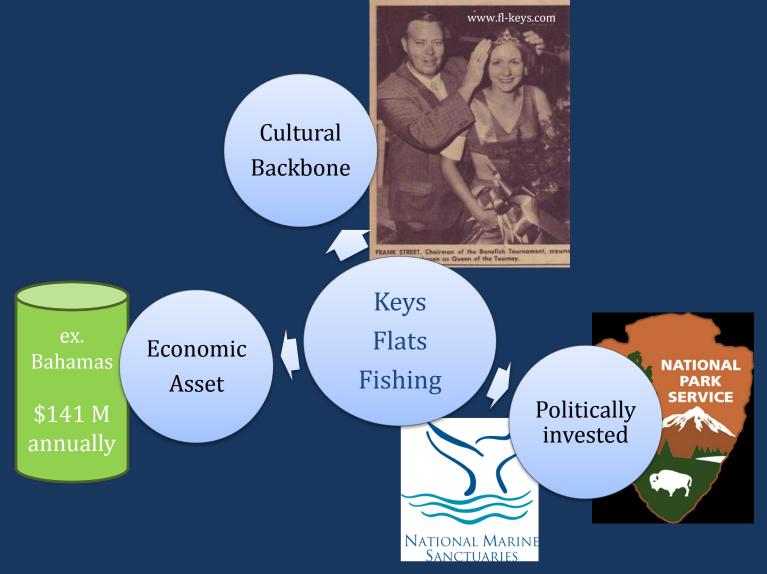
 Need for management revisions
 - Link *habitat* and *resource use*
 - It's worked before:
 - Teddy Roosevelt Conservation Partnership

III. TRCP



Areas used to prioritize conservation areas and not infringe on low-impact, conservation-minded activities

III. Why map for Catch and Release?



III. The Challenge

• How do we conserve without information?

spatial fishery data & habitat data



Proactive Conservation Plan

IV. Method- Fishing Zones



Group meetings

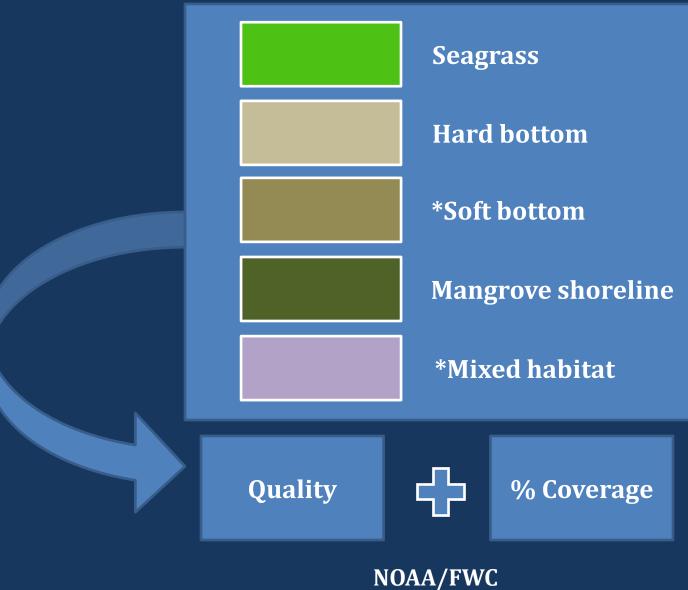


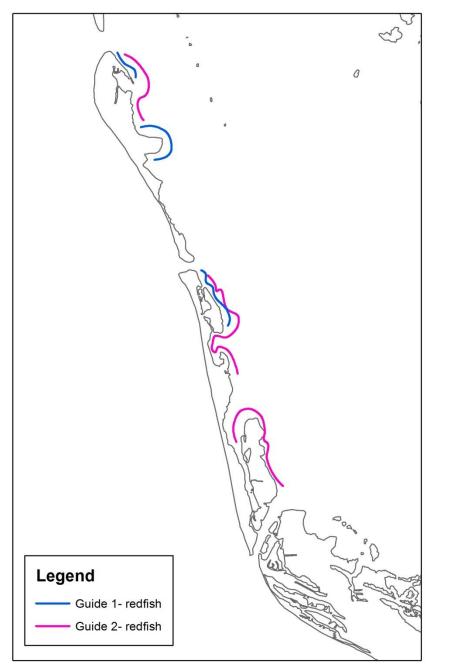
Individual meetings

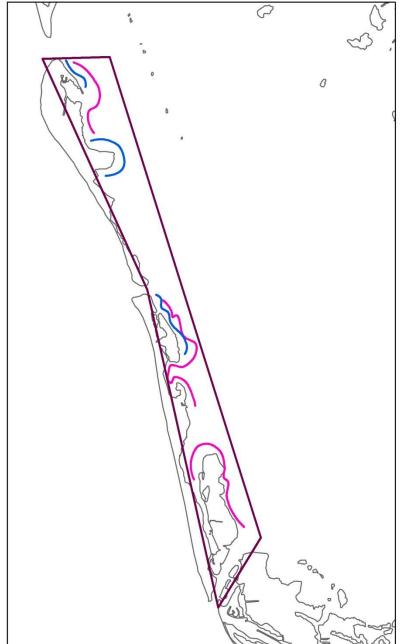


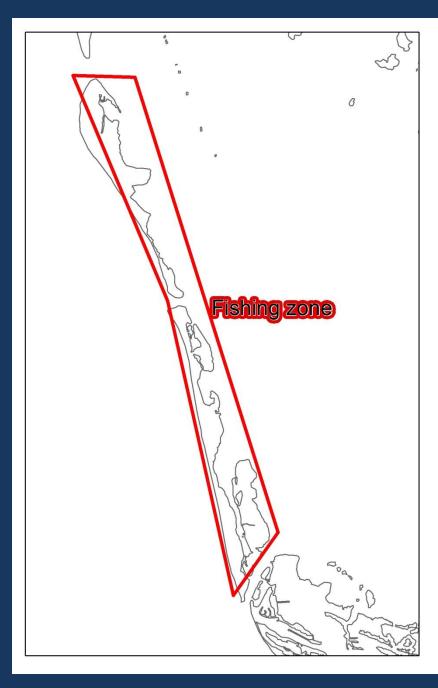
Cumulative Resource Use

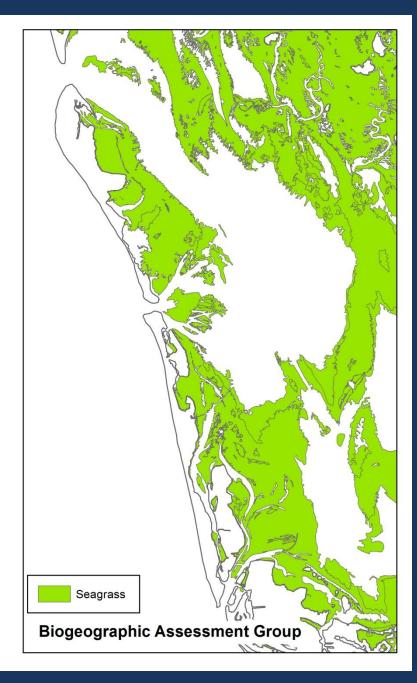
IV. Methods- Habitat Assessment

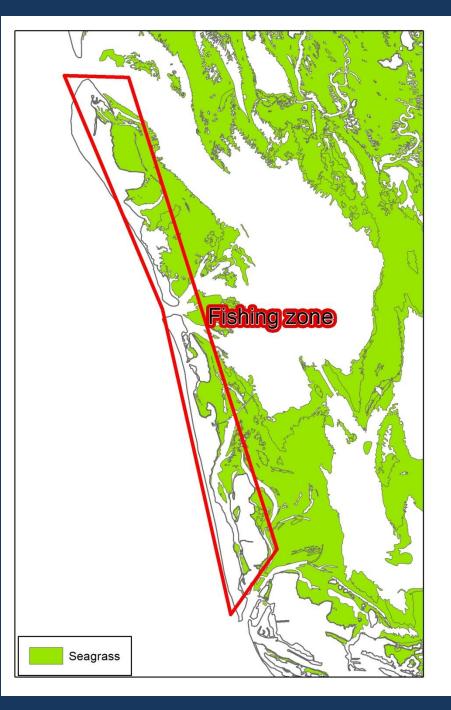


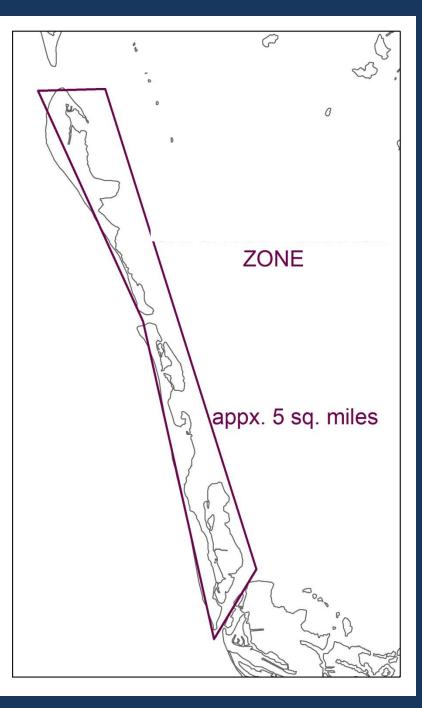












V. Continuing effort...

• Reception = positive

• More map collecting

MAIN GOAL:

More information = better informed process

