National Marine Sanctuaries National Oceanic and Atmospheric Administration



Stakeholders Engagement in MPA Development and Management Florida Keys National Marine Sanctuary



Lisa Symons, Deputy Superintendent Florida Keys National Marine Sanctuary August 11, 2017

The National Marine Sanctuary System

NATIONAL MARINE SANCTUARY SYSTEM



Scale varies in this perspective. Adapted from National Geographic Maps.



FLORIDA KEYS NATIONAL MARINE SANCTUARY

Partnership with State of Florida

Dry Tortuga

- 1990 Congress passed Florida Keys National Marine Sanctuary Protection Act
- 1997 Management Plan, Zoning Scheme, and Regulations Implemented
- 2001 Tortugas Ecological Reserve added



ATIONA





Welcome to the Florida Keys!



Population: Total Annual Visitors: Cruise Ship Visitation: Hotel Occupancy: Key West: 77,136 2,910,700 796,960 79.5% 87.1%

Economy (Gross Sales): Unemployment Rate: Top Employer:

Total Employment:

Average Temperature:

\$4,493,971,903 3.4% Accommodation, Food Service & Retail (33%) 58,202

75 F/24 C in January 90 F/ 32C in August



\$2.7 Billion – Tourism Value to Keys Economy







What types of activities does the Sanctuary regulate to protect resources?

- Spearfishing
- Marine Life / Aquarium Collection
- Fishing / Trapping
- Personal Watercraft
- Airboats / Waterskiing
- Vessel Speed / Wake / Motor
- Vessel Size
- Anchoring / Mooring
- Access Restrictions
- Diving / Snorkeling
- Any touching / harming coral
- Vessel Discharges
- Oil and Gas Development
- Dredging

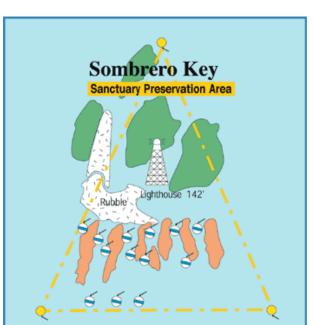


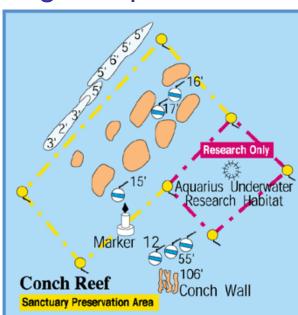


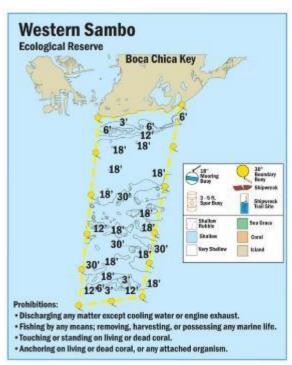
Marine Zoning Plan for Resource Protection and Limiting User Conflicts

- Sanctuary Preservation Areas
- Ecological Reserves
- Wildlife Management Areas
- Special Use Areas (Research Only)
- Area To Be Avoided: Large Ships > 50m





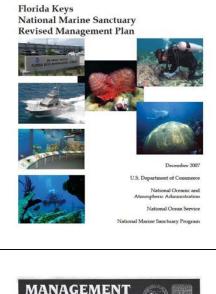






Why conduct the management plan review?

- Community interest!
- Periodic evaluation and public input is adaptive management
- Science shows we can make improvements in management
- Emerging threats climate change, invasive species, new marine uses
- Requirements National Marine Sanctuary Act and state resolutions, need to update action plans adopted in 2007





FOR SUBMERGED LANDS WITHIN BOUNDARIES OF THE KEY WEST AND GREAT WHITE HERON NATIONAL WILDLIFE REFUGES



- 2011 FKNMS Condition Report: Foundation for Regulatory and Zoning Changes
- History of discharges, coastal development, habitat loss, and over exploitation of large fish and keystone species
- Poaching, vessel groundings and discharging of marine debris
- Can be improved with long term management efforts, regulatory compliance and community involvement

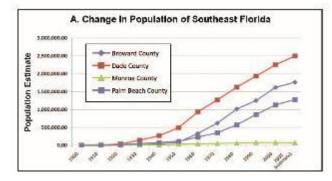


CONDITION REPORT 2011



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Florida Keys



Sanctuary Advisory Council Leads Planning Efforts

Community-based advisory group providing advice to Florida Keys NMS Management.

- Boating Industry
- Elected County Official
- Citizens at Large (3)
- Conservation (2)
- Research
- Education
- Tourism (2)
- Diving (2)

- Charter Fishing (2)
- Commercial Fishing (2)
- Recreational Fishing
- Cultural Resources
- 15 Non-Voting Local, State and Federal Agency Representatives







Sanctuary Advisory Council Goals for Management Plan Review



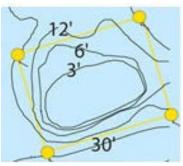
- To improve the diversity of natural biological communitiesandrestore and enhance natural habitats, populations and ecological processes overall;
- Reduce stresses from human activities by establishing areas that restrict access to sensitive wildlife populations and habitats;
- Protect large, contiguous, diverse and interconnected habitats that provide natural spawning, nursery, and permanent residence areas;
- Minimize conflicts among uses;
- Prevent heavy concentrations of use;
- Provide undisturbed monitoring sites for research; and
- Achieve a vibrant ecologically sustainable ecosystem and economy.

Sanctuary Advisory Council Work-Plan Priority Issues



3 Habitat, Zoning, & Issue Based Working Groups

- Adaptive Management & Permitting
- Artificial Habitats
- Boundary Modifications
- Personal Watercraft & Fishing Conflicts
- Water Quality
- Fishery Management









Sanctuary Advisory Council



- Provide advice to National Marine Sanctuary management
- Identified goals, objectives, and priority issues for review
- Established 3 community working groups to solicit additional input on marine zones in the sanctuary
- Hosted over 70 public meetings over two years to hear from the public



Sanctuary Advisory Council Community Working Group – Ecosystem Protection

Sanctuary Advisory Council Members:

- Conservation and Environment
- Commercial Fishing Marine/Tropical
- Fishing Charter Flats Guide
- Citizen at Large Upper Keys
- Tourism

Public Members:

- Recreational Fisherman
- Florida Keys Fishing Guides Association
- Florida Keys Commercial Fishermen's Association (2)
- Academia, NOVA Southeastern University
- Diving, Sea Sampler
- SCUBA Diving Columnist/Underwater Photographer
- Captain Hooks Dive Center and Marina
- Local Business, Fury Water Adventures
- Non-Governmental Organization, Reef Relief





Community Working Group Process



- Share Information
- Provide Input
- Build Community
- Improve Communication
- Advance Thinking
- Make Recommendations





Shared Learning Process



- Hosted regional 2-day meetings
- Ensured data accessibility and opportunity for working group members and public to use and interact with data
- Fostered discussion through small group work
- Provided meaningful opportunity for the public to engage
- Implemented an iterative decision making process with opportunity for majority/minority report



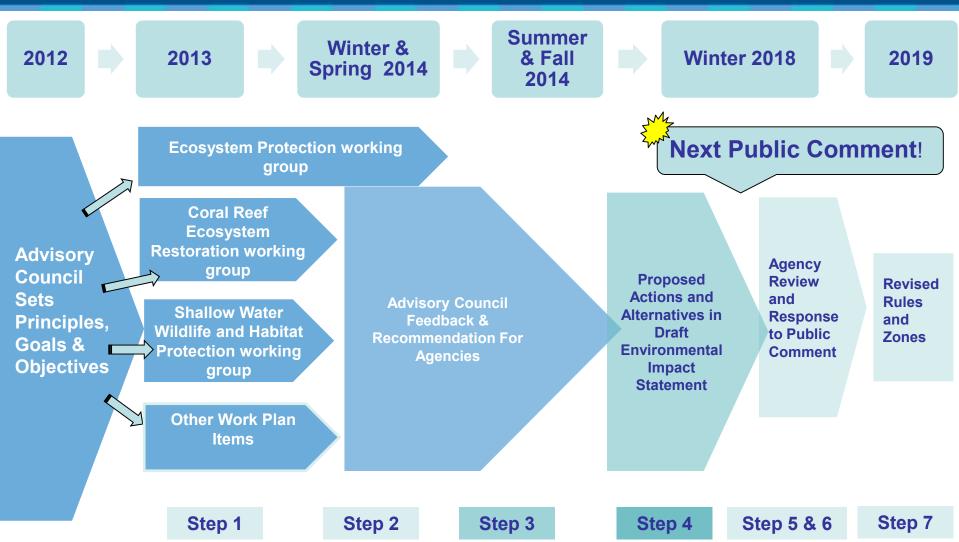
Science to Inform the Community Working Group Process



Metric					FLORIDA KEYS
Туре	Resource Name	Metric			
a I S H a b	Endangered/proposed I	Fis Fis Gr ab Na Ab i Ba s Ma h ab To sp Pa Pe	Resource Name		
	species distribution				
	Hard coral density distr		Fish abundance distrib	ution	
	Hard coral percent cove		Fish species richness distribution		n
	distribution		Grouper-snapper comp	olex	
	Hard coral species richr		abundance distributio	TypeReTypeDeHDisuFismReaRenCoReNUMasVe	
	distribution		Nassau-Goliath Group		Resource Name
	Soft coral density distri		Abundance		Density of Commercial Fishers
	Resilient Reefs		Barracuda abundance		Distribution of Commercial
	Soft coral species richne		Marine life ornamenta		Fishing Landings
	distribution		abundance distributio		Recreational Fishing Distribution
	Areas of aggregated and		Top 10 marine life orn		Recreational Diving Distribution
	reefs from Florida unific		species distribution		Commercial Operator
	tract map		Parrotfish abundance		Recreational Diving Distribution
	Areas of high structural		Permit Abundance		Marine Debris Density
	Seagrass density distrib		Fish Aggregations		Vessel Grounding Numbers
			Queen Conch	е	Marina Delated Facilities Leasting
					Marine Related Facilities Locations

Timeline and Next Steps





Greatest Successes & Challenges



Successes:

- •High level of community engagement including new, highly informed and vested partners
- •Collaborative and strategic engagement with resource management partners
- •Breadth and depth of available science to inform process and decisions
- Challenges:
- •Communicating complex science information
- •Maintaining an appropriate level of engagement and participation
- •Effective communication to ensure stakeholders know how and when to engage in the process
- •Managing stakeholder expectations throughout the process
- Misinformation

Advisory Council Leads Planning Efforts From The Beginning for All Management Changes



Community Based Stakeholder Driven Process:

Public Input ⇒ Advisory Council ⇒ Public Input ⇒ Decision



"The Florida Keys National Marine Sanctuary is a fine example of a government program that works in its intended form... for the people, by the people, specific to its unique region. It is a group that listens, speaks, and acts on input from all the various stakeholders of that region."

> Captain Steve Leopold, Charter/Sports Fishing Seat

Lessons Learned Across the Florida Reef Tract



Southeast Florida Coral Reef Initiative



- Engage stakeholders despite the challenge
- Clarity about the role of stakeholders in the process
- Open and transparent communication
- Adaptive and inclusive process planning
- Ensure science and traditional local knowledge are incorporated
- People a lot of time and staff to do it well
- Professional facilitation
- Anticipate problems and questions and prepare information continually during the process
- Cultivate social networks
- Be prepared for it to take time... a lot of time...to do it well