

Florida Keys National Marine Sanctuary Revised Management Plan



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National Oceanic and
Atmospheric Administration

National Ocean Service

National Marine Sanctuary Program

This document is the revised management plan for the Florida Keys National Marine Sanctuary. It replaces the management plan that was implemented in 1996 and will serve as the primary management document for the Sanctuary during the next five years.

Comments or questions on this management plan should be directed to:

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Note to Reader

In an effort to make this document more user-friendly, we have included references to the Florida Keys National Marine Sanctuary Web site rather than including the entire text of many bulky attachments or appendices that are traditionally included in management plans. Readers who do not have access to the Internet may call the Sanctuary office at (305) 809-4700 to request copies of any documents that are on the Sanctuary's Web site. For readers with Internet access, the Sanctuary's Web site can be found at floridakeys.noaa.gov.

ABOUT THIS DOCUMENT

This document is a report on the results of NOAA's five-year review of the strategies and activities detailed in the 1996 *Final Management Plan and Environmental Impact Statement* for the Florida Keys National Marine Sanctuary. It serves two primary purposes: 1) to update readers on the outcomes of successfully implemented strategies - in short, accomplishments that were merely plans on paper in 1996; and, 2) to disseminate useful information about the Sanctuary and its management strategies, activities and products. The hope is that this information, which charts the next 5 years of Sanctuary management, will enhance the communication and cooperation so vital to protecting important national resources.

Sanctuary Characteristics

The Florida Keys National Marine Sanctuary extends approximately 220 nautical miles southwest from the southern tip of the Florida peninsula. The Sanctuary's marine ecosystem supports over 6,000 species of plants, fishes, and invertebrates, including the nation's only living coral reef that lies adjacent to the continent. The area includes one of the largest seagrass communities in this hemisphere. Attracted by this tropical diversity, tourists spend more than thirteen million visitor days in the Florida Keys each year. In addition, the region's natural and man-made resources provide recreation and livelihoods for approximately 80,000 residents.

The Sanctuary is 2,900 square nautical miles of coastal waters, including the 2001 addition of the Tortugas Ecological Reserve. The Sanctuary overlaps four national wildlife refuges, six state parks, three state aquatic preserves and has incorporated two of the earliest national marine sanctuaries to be designated, Key Largo and Looe Key National Marine Sanctuaries. Three national parks have separate jurisdictions, and share a boundary with the Sanctuary. The region also has some of the most significant maritime heritage and historical resources of any coastal community in the nation.

The Sanctuary faces specific threats, including direct human impacts such as vessel groundings, pollution, and overfishing. Threats to the Sanctuary also include indirect human impacts, which are harder to identify but are reflected in coral declines and increases in macroalgae and turbidity. More information about the Sanctuary can be found in this document and at the Sanctuary's Web site.

Management Plan Organization

Within this document, the tools that the Sanctuary uses to achieve its goals are presented in five management divisions: 1) Science; 2) Education, Outreach & Stewardship; 3) Enforcement & Resource Protection; 4) Resource Threat Reduction; and 5) Administration, Community Relations, & Policy Coordination. Each management division contains two or more *action plans*, which are implemented through supporting *strategies* and *activities*. The strategies described in the 1996 *Management Plan* generally retain their designations in this document. As in the 1996 plan, two or more action plans may share a strategy where their goals and aims converge. The 1996 plan can be accessed on the Sanctuary's Web site floridakeys.noaa.gov

Accomplishments and Highlights

The Sanctuary's programs and projects have made significant progress since the original management plan was implemented 1996. An overview of these accomplishments is provided in the Introduction. In addition, each action plan contains bulleted lists of accomplishments since the 1996 management plan was adopted.

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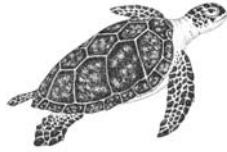
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Acronyms

ACHP	Advisory Council on Historic Preservation
AGRRA	Atlantic and Gulf Rapid Reef Assessment Program
ASA	Abandoned Shipwreck Act
ATBA	Areas to Be Avoided
AWT	Advanced Wastewater Treatment
CAD	Computer Automated Dispatch
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERP	Comprehensive Everglades Restoration Plan
CFR	Code of Federal Regulations
CRCP	Coral Reef Conservation Program
DARP	Damage Assessment and Restoration Program
DEP	Florida Department of Environmental Protection
DTNP	Dry Tortugas National Park
EIS	Environmental Impact Statement
EPA	U.S. Environmental Protection Agency
ESA	Endangered Species Act
F.S.	Florida Statutes
FAC	Florida Administrative Code
FDACS	Florida Department of Agriculture and Consumer Services
FDCA	Florida Department of Community Affairs
FDHR	Florida Division of Historical Resources
FDOT	Florida Department of Transportation
FKNMS	Florida Keys National Marine Sanctuary
FKNMSPA	Florida Keys National Marine Sanctuary Protection Act
FPS	Florida Park Service
FR	Federal Register
FWC	Florida Fish and Wildlife Conservation Commission
FWRI	Fish and Wildlife Research Institute
FY	Federal Fiscal Year
GIS	Geographic Information System
GMD	Growth Management Division (Monroe County)
GMFMC	Gulf of Mexico Fishery Management Council
GPS	Global Positioning System
HAZMAT	Hazardous Materials
ICS	Incident Command Structure
ICW	Intra-coastal Waterway
IMO	International Maritime Organization
MBTA	Migratory Bird Treaty Act
MEERA	Marine Ecosystem Event Response and Assessment
MHR	Maritime Heritage Resources
MMPA	Marine Mammal Protection Act
MMS	Minerals Management Service
MOA	Memorandum of Agreement
MOU	Memorandum of Understanding

MRD	Marine Resources Division (Monroe County)
NCCOS	National Centers for Coastal Ocean Science
NEPA	National Environmental Policy Act
NGO	Non-governmental Organization
NHPA	National Historic Preservation Act
NMFS	National Marine Fisheries Service
NMS	National Marine Sanctuary
NMSA	National Marine Sanctuary Act
NMSF	National Marine Sanctuary Foundation
NMSP	National Marine Sanctuary Program
NOAA	National Oceanic and Atmospheric Administration
NOAA/OLE	NOAA Office of Law Enforcement
NOS	National Ocean Service
NPDES	National Pollutant Discharge Elimination System
NPS	National Park Service
NRDA	Natural Resource Damage Assessment Claims
NURC	National Undersea Research Center
OFW	Outstanding Florida Waters
OSDS	On-Site Disposal System
OSTDS	On-Site Sewage Treatment and Disposal System
PREP	National Prepared for Response Exercise Program
PSSA	Particularly Sensitive Sea Area
RECON	Reef Ecosystem Condition Program
REEF	Reef Environmental Education Foundation
RNA	Research Natural Area
RSMAS	University of Miami/Rosenstiel School of Marine and Atmospheric Science
SAFMC	South Atlantic Fishery Management Council
SAP	Science Advisory Panel
SAV	Submerged Aquatic Vegetation
SCR	Submerged Cultural Resources
SEFSC	Southeast Fisheries Science Center
SFWMD	South Florida Water Management District
SHIELDS	Sanctuary Hazardous Incident Emergency Logistics Database System
SPA	Sanctuary Preservation Area
SWIM	Surface Water Improvement and Management Act
SWM	Stormwater Management
TAC	Technical Advisory Committee
TNC	The Nature Conservancy
USACE	U.S. Army Corps of Engineers
USCG	U.S. Coast Guard
USDOC	U.S. Department of Commerce
USDOI	U.S. Department of Interior
USDOS	U.S. Department of State
USDOT	U.S. Department of Transportation
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
WAMS	Waterway Assessment and Marking System

WMA Wildlife Management Area
WQPP Water Quality Protection Program
WQSC Water Quality Steering Committee



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Appendix E - FKNMS Advisory Council (November 2001)

Members	Alternates
Member: Todd Firm Seat: Diving - Upper Keys	Alternate: Rob Bleser
Member: Wayne Blevins Seat: Tourism - Upper Keys	Alternate: Robert "Doc" Schweinler
Member: Vacant Seat: Charter Fishing - Sport Fishing	Alternate: Vacant
Member: Thomas N. Davidson Seat: Recreational Fisherperson	Alternate: Jim Hurley
Member: Fran Decker Seat: Citizen-at-Large (Middle Keys)	Alternate: Susan Mickey
Member: Richard Grathwohl Seat: Charter Fishing (Flat's Guide)	Alternate: Vacant
Member: Debra Harrison Seat: Conservation & Environment	Alternate: William Crispin
Member: David Hawtof Seat: Citizen-at-Large (Lower Keys)	Alternate: Sheila K. Mullins
Member: Tony Iarocci Seat: Commercial Fishing - Shell/Scale	Alternate: Greg DiDomenico
Member: Warren Johnson Seat: Boating Industry	Alternate: Jack Elon Hildreth
Member: Don Kincaid Seat: Diving (Lower Keys)	Alternate: Bob Holston
Member: Nancy Klingener Seat: Conservation & Environment	Alternate: Jody Thomas
Member: Deborah Shaw Seat: Research & Monitoring	Alternate: Jerome J. Lorenz
Member: Karen Lee Seat: Citizen-at-Large (Upper Keys)	Alternate: Dallas Wain Garrison
Member: Martin Moe	Alternate: Bryant Diersing

Seat: Education/Outreach	
Member: Ken Nedimyer Seat: Commercial Fishing - (Marine/Tropical)	Alternate: Peter Gladding
Member: George R. Neugent Seat: Elected Official	Alternate: Vacant
Member: Anita Schwessinger Seat: Tourism (Lower Keys)	Alternate: Sheri Lohr
Member: R. Duncan Mathewson III Seat: Submerged Cultural Resources	Alternate: Diane Elizabeth Silvia

Sanctuary Advisory Council Working Groups 2001

Channel/Reef Marking

Chair:	Co-Chairs:
Warren Johnson	Fritz Wettstein and Rich Jones
Bob McGuire	George Neugent
Pat Wells	Don Kincaid
Richard Grathwohl	Jim Bellizzi

Damage Assessment and Restoration

Staff: Bill Goodwin and Lauri MacLaughlin
Bob Currul
Erich Mueller
Pat Wells

Education and Outreach

Chair: Martin Moe	Co-Chair: Mary Tagliareni
Andy Griffiths	Laddie Akins
Virginia Cronk	Dave Makepeace
Lynda Berrigan	

Enforcement

Chair: Jim Hurley	Co-Chair: Bob Currul
Don DeMaria	Karen Lee
John Brownlee	Nancy Klingener
Jerry Lorenz	Chester Marr
Jim Bellizini	Todd Firm

Mooring Buoys

Chair:	Co-Chair: Steve Baumgartner
Rob Bleser	Tom Davidson
Sheri Lohr	Pat Wells
Fran Decker	Todd Firm

Regulatory

Chair: Jim Hurley	Co-Chair: Billy Causey and June Cradick
Don DeMaria	Karen Lee
John Brownlee	George Neugent
Jerry Lorenz	Chester Marr
Peggy Mathews	Jim Bellizzi
Nancy Klingener	George Garret
Sheri Sullenger	Greg DiDomenico
Bob Currul	Ken Haddad

Research and Monitoring

Chair: Deborah Shaw
Fran Decker
Jim Hurley
Pat Wells
Don Kincaid
Nancy Klingener
Virginia Cronk
John Hunt

Co-Chair: Jerry Lorenz and Brian Keller
Diana Silvia
Ken Nedimyer
Bill Crispin
Debbie Harrison
Martin Moe
Erich Mueller
Robert Brock

Submerged Cultural Resources

Chair: Duncan Mathewson
Diane Silvia
David Paul Horan
Lynda Berrigan

Co-Chair: Dave Score
Pat Wells
Don Kincaid

Volunteer

Chair: Fran Decker
Tom Davidson
Ivy Kelley

Co-Chair: Mary Enstrom
Steve Davidson

Water Quality

Chair: Debra Harrison
Warren Johnson
Don DeMaria
George Neugent
Erich Mueller
Don Kincaid
Fran Decker
Deborah Shaw
Jerry Lorenz
Nancy Klingener
Lynda Berrigan

Co-Chair: Bill Kruczynski
David Hawtof
Tom Davidson
Richard Grathwohl
Greg DiDomenico
Martin Moe
Ken Nedimyer
Anita Schwessinger
Wayne Blevins
George Garrett

Water Quality Protection Program Steering Committee

Water Quality Protection Program Technical Advisory Committee

There two groups are closed to new membership, but all meetings are open to the public.

Zoning

Chair: Karen Lee
Fran Decker
Richard Grathwohl
Debbie Harrison
Greg DiDomenico

Co-Chairs: Joanne Delaney and John Halas
Ken Nedimyer
Tony Iarocci
Nancy Klingener

Artificial Reefs

Chair:

Co-Chair: John Halas

Sheri Lohr
Rob Blesser
Tom Davidson
Grady Sullivan
Don Kincaid
Tony Iarocci

Greg DiDomenico
Ken Nedimyer
Erich Mueller
Jim Hurley
Debra Harrison
Richard Grathwohl

Key West Harbor Water Quality

Chair:
George Halloran
Grady Sullivan
Erich Mueller
Greg DiDomenico

Co-Chair: Fritz Wettstein
DeeVon Quirolo
Warren Johnson
David Paul Horan
Don Kincaid

Personal Watercraft

Chair: Karen Lee
Richard Grathwohl
Jim Hurley
Bruce Popham
Pat Wells
Wayne Blevins
Deborah Shaw
Debra Harrison
John Brownlee

Co-Chair: Dave Score
Tom Davidson
Warren Johnson
Erica Weis
Andy Griffiths
Jerry Lorenz
Nora Williams
Peggy Mathews
Jim Bellizzi

Visitor Centers

Chair:
Anita Schwessinger
Laddie Akins

Co-Chairs: Cheva Heck
Nancy Klingener