### About this Guide

This guide is designed to help boaters enjoy and appreciate the natural and cultural resources in the Loxahatchee River and Jupiter Inlet vicinity. The maps and text display and describe features from the maritime history of the area; resources important to boaters and anglers, including marinas and boat ramps; fish species commonly caught in local waters; the distribution of natural resources, such as sea grass, estuaries, and beaches; and sources of information and assistance.

Do not rely on this guide for navigational purposes. Instead, use the latest charts.

The Jupiter Inlet District provided funding for this guide, which was prepared in collaboration with the Florida Sea Grant College Program.

For information on obtaining a copy of this guide, please contact:



Jupiter Inlet District (561) 746-2223 (352) 392-1837

Aurhors: Mike Grella, Jupiter Inlet District; SGEB 57, Rev. 2 David Fann and Robert Swett, Florida Sea Grant January 2015 Fraphic Design: Regina Cheong, Vista Graphics



### Good Reading

In 1696, the barkentine *Resolution*, with passengers including Philadelphia Quaker Jonathan Dickinson, his wife, and his infant son, ran aground in a storm on the beach of Jupiter Island, about five miles north of the inlet. In his diary, Dickinson recorded an account of the wreck, encounters of the survivors with the native Jeaga Indians, and their eventual rescue following an arduous trek north to Spanish St. Augustine. Convinced the party's salvation resulted from divine intervention, Dickinson published an account of the journey in 1699. Usually called simply Jonathan Dickinson's Journal, the volume became an immediate success and has been reprinted many times.

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Environmental Perspective of

Jupiter Inlet

Loxahatchee River

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This postcard image, taken from the lighthouse, looks east to Jupiter Inlet, with the U.S. Weather Bureau meteorologica



## Jupiter Inlet District - /An Area of Distinction

Fishermen take advantage of the south jetty in 1968. (Credit: Jupiter Inlet District) The Jupiter Inlet District (JID), a special taxing district established in 1921 by the Florida Legislature, is the oldest local government in northern Palm Beach County. The Legislature requires the JID Board to maintain and preserve (1) the Jupiter Inlet, with a specific emphasis on navigability, and (2) the Loxahatchee River and its tributaries.

Additionally, JID operates and maintains the northernmost portion of Jupiter Beach Park. JID built two parallel, 400-foot jetties at the inlet in 1922 and in 1929

extended the north jetty by 200 feet and the south by 75 feet. In 1941,

Lighthouse Keepers



Captain Armour was head lighthouse keeper for forty years, from 1868 to 1908. He was also one of the area's most noted pioneers. Photo Credits Abbreviations: Florida Memory (FM

Loxahatchee River Historical Society (LRHS), Lynn L. Drake Collection (LLD)

Front cover postcards, courtes

of Lynn L. Drake collection.

# Jupiter Inlet Views by William Henry Jackson

These photographs, made by William Henry Jackson (1843 - 1942), are from the Library of Congress. The works of Jackson influenced the establishment of Yellowstone and other early national parks. His extensive travels included working visits to many sites in Florida, including the vicinity of Jupiter.

Beaver, photographer)

The sidewheel steamboat Ibis navigated the Loxahatchee River sometime before 1902. The Ibis was one of many steamboats and sailing craft engaged in commerce along Florida's coasts and inland waterways in the ate 19th Century. (FM)



the district dredged a channel near the south jetty. However, the inlet was allowed to close in 1942 and remain blocked by a sandbar for the duration of World War II. JID reopened the inlet in 1947 and has since dredged as needed to keep it open for small-craft navigation.

By the early 1930s, the jetty on the north side of the inlet provided stability. The rock ballast is visible near the left side of the photograph.



## Telecommunications Facilities Defend the Coast

In October 1905, construction of the U.S. Navy's Jupiter Wireless Telegraph Station was "nearly complete." Assigned call letters "RA," the station soon joined the Navy's growing roster of wireless installations. (http://earlyradiohistory.

The primary function of Navy wireless telegraph stations was communication with warships at sea. The stations

Clean Marina Program: (850) 245-2100, www.dep.state.fl.us/cleanmarina/

US Coast Guard: www.uscg.mil/d7/ US Coast Guard Auxiliary, Flotilla 5-2: wow.uscgaux.info/content.php?unit=070-05-02

NOAA VHF Weather: 162.55, 162.425 **Tides and weather** Extended tide forecasts www.saltwatertides.com/dynamic.dir/floridaatlanticsites.html National Hurricane Center: www.nhc.noaa.gov

National Weather Service: www.srh.noaa.gov/mia



MUTTON SNAPPER: Offshore wrecks and reefs. Inshore sea grass beds, mangrove shore, and canals. Check latest regulations for size and season limits.



BLUEFISH: Nearshore, inlet, and surf. Migratory; best in winter. Be careful with sharp teeth and strong jaws. Credit: Adapted from Myers, Ronald L. and Ewel, John J., Ecosystems of Florida, University of Central Florida Press, Orlando, 1990

Sea grass beds are among the most productive communities on earth. They provide habitat for small invertebrates and fishes; serve as nurseries and feeding grounds for species such as drums, sea bass, and snappers; and efficiently convert nutrients in their environments to organic matter vital to the base of the food chain. Among the sea grass species present in the Loxahatchee River estuary, Jupiter Inlet, and nearby Intracoastal Waterway are manatee grass (Syringodium filiforme) and turtle grass (Thalassia testudinum), named for its appeal to green sea turtles. A variety of wading and diving birds also use sea grass beds as feeding grounds. Healthy sea grasses in estuaries are essential to commercial and recreational fisheries, including that of the pink shrimp, economically one of the most important in Florida.

sediments. Jupiter Inlet has been stabilized and open continuously past several thousands of years. since 1947.

These changes, along with significant alteration in use of the nearby lands due to increasing population, modify the river's sediment *Processes in a Small Urbanized Subtropical Estuary, Florida*, 2005.

Adapted from manuscript by Jaeger, John M., Ashish Mehta, Richard Faas, and Michael Grella, *Anthropogenic Impacts on Sedimentary Sources and* 

Waters of the Loxahatchee River–Lake Worth Creek Aquatic Preserve and the Wild and Scenic Loxahatchee River

Jupiter Inlet District: www.jupiterinletdistrict.org Loxahatchee River District: www.loxahatcheeriver.org Florida Sea Grant: (352) 392-1837, www.flseagrant.org

Martin County Sheriff's Department: Emergency: Dial 911 Non-emergency: (772) 220-7000

Palm Beach County Sheriff's Department: Emergency: Dial 911 Non-emergency: (561) 688-3000

**Jupiter Vicinity Information Websites:** www.tcpalm.com/news/news/local/ (service of the Jupiter Courier newspaper) www.jupiterfloridausa.com (visitor information)

Loxahatchee River Historical Society: www.lrhs.org (561) 747-8380

## Recycle Your Fishing Line

Monofilament fishing line can last for centuries in the water, out of the sun's ultra-violet rays. Each year, thousands of animals and many boat propellers become tangled in discarded fishing line. Shorebirds, sea turtles, and manatees can starve to death, lose limbs, or drown because of entanglement. Human divers can also become tangled in line.

Please deposit used fishing line in designated recycling

containers.



SHEEPSHEAD: Inshore around oyster bars, seawalls, and pilings and in tidal creeks; nearshore in late winter and early spring, gathering over rocks and artificial reefs and around navigation markers.



SNOOK: Usually inshore in coastal and brackish waters, along mangrove shorelines, seawalls, and bridges; also on reefs and pilings. Check latest regulations for size and season limits.

SPOTTED SEATROUT: Inshore and/or nearshore over grass, sand, and sandy mud bottoms; move into slow-moving or still, deep waters in cold weather.

CREVALLE JACK: Beaches, inlet, estuaries, and rivers. Generally not prized for the table, but challenging and fun to catch and release.

> Illustrations by Diane Rome Peebles Provided by the Florida Fish and Wildlife Conservation Commission, Division of Marine Fisheries Management Captions adapted from Fishing Lines, publication of the FWC

West Indian manatees are large, gray aquatic mammals. An adult manatee may be almost 10 feet long and weigh 800-1200 pounds. Manatees live in rivers, estuaries, saltwater bays, and canals. Manatees have no natural enemies; however, many deaths result from collisions with watercraft. Manatees are protected under federal and Florida state law. It is unlawful to feed, touch, or disturb any manatee. State penalties are a maximum fine of \$500 and/or imprisonment for up to 60 days. A federal penalty may be \$100,000 and/ or one year in prison.

Grass bed extent varies seasonally, as well as over longer time spans, responding to changes in water salinity, temperature, turbidity, and quality. Denuded seabed scars caused by boat anchors and propellers take many years to heal. Boaters can help to maintain healthy sea grass beds by just not anchoring in grass-which generally offers relatively poor holding anyway-and by using a pole or oars to move vessels over grass when the water is too shallow to avoid prop scarring under power. This map shows distribution of sea grass beds in the lower Loxahatchee, Jupiter Inlet, and the Intracoastal Waterway, but remember to look out for grass wherever you anchor and when venturing into shallow water.

Oysters (Crassostrea virginica) are filter feeding, sedentary invertebrates found mostly in estuary areas with firm substrates, such as mud/shell bottom. Oysters provide food and habitat for a variety of estuarine species, including sponges mollusks, worms, and crustaceans. Freshwater runoff provides food for oysters, limits predation, and reduces disease, so oyster beds are associated with areas of lower salinity.

Found in the northwest and southwest forks of the Loxahatchee, oyster bars (red on the map) are productive fishing spots that attract adult snook. Exercise caution in these areas; oyster bars severely damage boat hulls and props, and the sharp shells are treacherous for people wading or swimming.

### Manatees, Our Gentle Giants

Some helpful tips for boaters:

•Wear polarized sunglasses and look for a snout, back, tail, or flipper breaking the surface. A swimming manatee's tail creates whirls or flat spots on the water.

• Stay in deep-water channels. For high-speed water sports, choose areas that manatees do not or cannot frequent. • Remain at least 50 feet away from manatees. Stop your prop if you must go closer. Obey speed zone signs and avoid posted manatee sanctuaries. • Recycle your litter or throw it in a proper trash container. Debris such as discarded plastic bags or six-pack holders is dangerous to manatees and other wildlife. Properly discard or recycle monofilament line and fishhooks.

• Don't touch, feed, or provide water to manatees. These practices may encourage the animals to approach persons who might harm them.

The Loxahatchee River-Lake Worth Creek Aquatic Preserve (outlined in red on the map) includes the three forks and central embayment of the Loxahatchee River, as well as Lake Worth Creek, the waterway that continues south of the Loxahatchee behind the barrier islands. The 9,000acre preserve was established in 1984 and comprises two sections: Wilderness and Urban. The Wilderness Preserve—upstream from mile 5.5 of the Loxahatchee River Northwest Fork—is managed to maintain the existing wilderness condition. Management goals for the Urban Preserve are to restore and enhance the natural condition of the resources.

Several miles of the Loxahatchee River's Northwest Fork slowly meander through one of the last vestiges of native cypress river swamp in southeast Florida. In 1985, the federal government designated 9.5 miles of the fork as Florida's first National Wild and Scenic River (outlined in yellow on

the map)—one of only two rivers in the state so designated. Large sections of the river corridor and watershed are within Jonathan Dickinson State Park, which contains outstanding examples of the region's natural biological communities.

Visitors to the area enjoy fishing, boating, and watching animals, such as manatees and birds, in their natural environment. The three forks of the Loxahatchee are freshwater tributaries, characterized by riverine communities such as freshwater and tidal marshes. Near and within the estuary, mangrove communities are predominant with submerged resources including tidal flats, sea grass beds, and oyster bars. The preserve hosts recreationally and commercially important species such as blue crabs, mullet, snook, and tarpon, as well as unusual fish species such as the bigmouth sleeper and the opossum pipefish, a "species of concern."





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