Beach Renourishment in Jacksonville

Kevin R. Bodge, P.E., Ph.D. - Olsen Associates, Inc.
Tom R. Martin, P.E. - U.S. Army Corps of Engineers
St. Johns River Entrance

Jetty Construction by Rail

1887
Plan for St. Johns River Entrance

Placing Boulders
Timucuan Preserve
2001 Photograph

- Amelia Island
- Nassau Sound
- Atlantic Ocean
- Ft. George Inlet
- Johns River
- Little Talbot Island

1871 shoreline
Huguenot Park (Ward’s Bank)

Fort George Inlet

Little Talbot Island (State Park)
Disposal Prior to the Federal SPP, 1972
“Finest Beach in the World”

1920’s & 1930’s
Jacksonville Beach
Late 1950’s

About 100,000 people witness the Navy’s Blue Angels flyover in late 1950s.
Typical storm damage from 1962 Northeaster and Hurricane Dora (1964) along Duval County, Florida shorefront
Emergency Shore Protection, 1962
Emergency Shore Protection, 1963
Emergency Shore Protection, 1963
BEACH PROFILE & FILL PERFORMANCE (Duval County)

Duval County, FL

18th St, Atlantic Beach

SEAWALL

MHW

MLW

1974

1990

1999

Oct 2004 (Post-Hurr.)

Elevation (Feet-NGVD)

Offshore Distance (Feet)
BEACH PROFILE & FILL PERFORMANCE (Duval County)

Duval County, FL  18th St, Atlantic Beach

Elevation (Feet-NGVD)

Offshore Distance (Feet)

-10 0 10 20 30 40 50 60

SEAWALL

Authorized Design

Oct 2004 (Post-Hurr.)

Oct 2005 (Post-Fill)

1974

Oct 2004 (Post-Hurr.)
8th Street
Atlantic Beach
JACKSONVILLE BEACH
February 2011