

**FINAL REPORT**

# **FLORIDA NORTHEAST COAST RECONNAISSANCE OFFSHORE SAND SEARCH (ROSS)**

Prepared for  
Florida Department of Environmental Protection  
Bureau of Beaches and Shores  
3900 Commonwealth Boulevard  
Tallahassee, Florida 32399

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**URS**



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### Appendices

- Appendix 1 Online Query Builder Users Manual
- Appendix 2 Interactive Mapping Users Manual

In January of 2001 The Florida Department of Environmental Protection (FDEP) Office of Beaches and Coastal Systems (OBCS) contracted with URS Corporation to develop a database that can be addressed, searched and manipulated through an online query builder as well as ArcIMS Geographic Information System (GIS) routines that provide access over the Internet (Web) for compiling and disseminating available coastal and nearshore data. The project was titled the “Reconnaissance Level Regional Sand Search for the Florida Panhandle” or SandPan for short.

The project involved gathering together into one central enterprise database the relevant data from historical, present and future studies conducted in the Panhandle region of the Florida Gulf Coast. Granulometric, geophysical, and spatial data were included, as well as an annotated bibliography of all references related to nearshore and coastal processes which were instrumental in locating and characterizing sand sources for use in the overall context of the Florida coastal management plan. This data is instrumental in minimizing the cost of initial data searches needed for each nourishment project undertaken by FDEP contractors.

In February of 2003, the OBCS, at that time renamed the Bureau of Beaches and Wetland Resources (BBWR), again contracted with URS to continue development of the database and the online components of the Sandpan database project with Florida’s southwest Gulf Coast as the project area. One benefit of this new project was the teaming of URS with Coastal Planning and Engineering (CPE) of Boca Raton, Florida. With the addition of a more project-focused coastal engineering firm, the Sandpan reconnaissance framework could be more focused at the individual beach nourishment project level. With the union of the two fundamental ways of searching and viewing the available data(i.e., the Online query builder and the ArcIMS GIS) , it was determined by BBWR that Sandpan needed to be expanded to include the new classes of data that can be of value in engineering beach nourishment operations. This new database and associated Web site was called the “Reconnaissance Offshore Sand Search” or ROSS (Figure 1-1).

With the completion of the Southwest Gulf Coast Sand Search, the newly named Bureau of Beaches and Coastal Systems (BBCS) approved the continuation of the ROSS project to encompass the entire Florida Atlantic coast. The work was organized and authorized into a series of “Phases”. Four Phases correspond to three regional sand search areas for the Atlantic Coast and an east coast field study plan. Phase I is the southeast and includes Dade, Broward and Palm Beach Counties, Phase II is the central region made up of Martin, St. Lucie, Indian River and Brevard counties, Phase III is the northeast region which includes Volusia, Flagler, St. Johns, Duval and Nassau counties and Phase IV is the field work portion of the contract. The regional sand searches were set up on an overlapping time schedule, with the field work to be run concurrently. The overall work for each sand search Phase was designed along the same parameters to produce similar outcomes. This report represents the third of a three report series for the Florida Atlantic Coast.

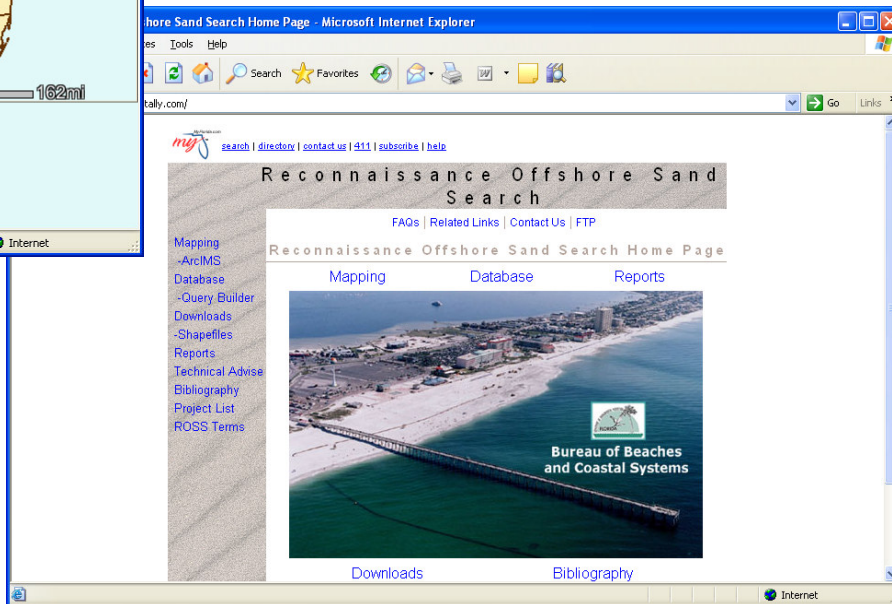
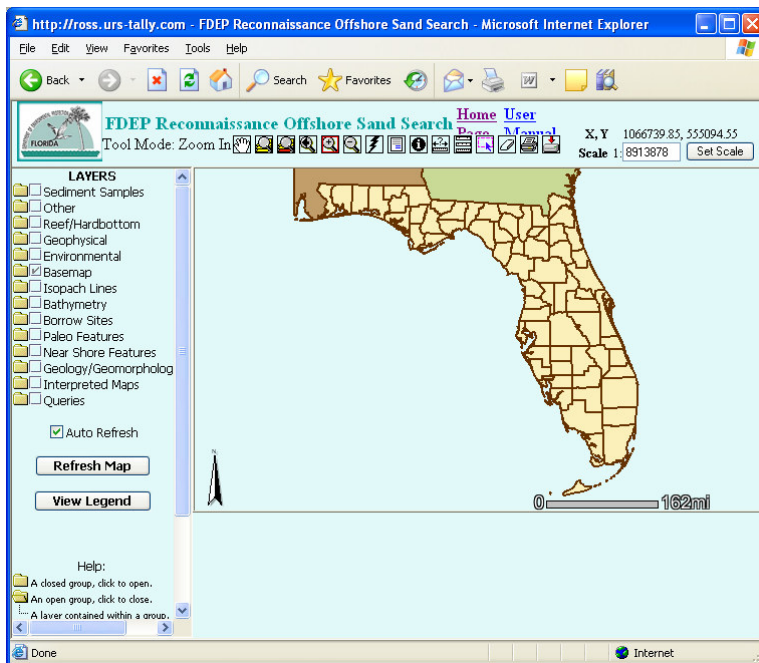


Figure 1-1. The Reconnaissance Offshore Regional Sand Search (ROSS) Home Page and the ROSS Internet Map Service (IMS) Page.