

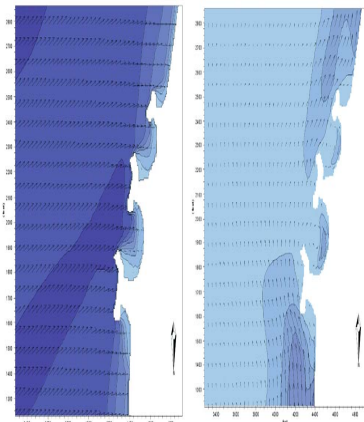
32nd Street Hot Spot Breakwaters, Florida

coastal engineering

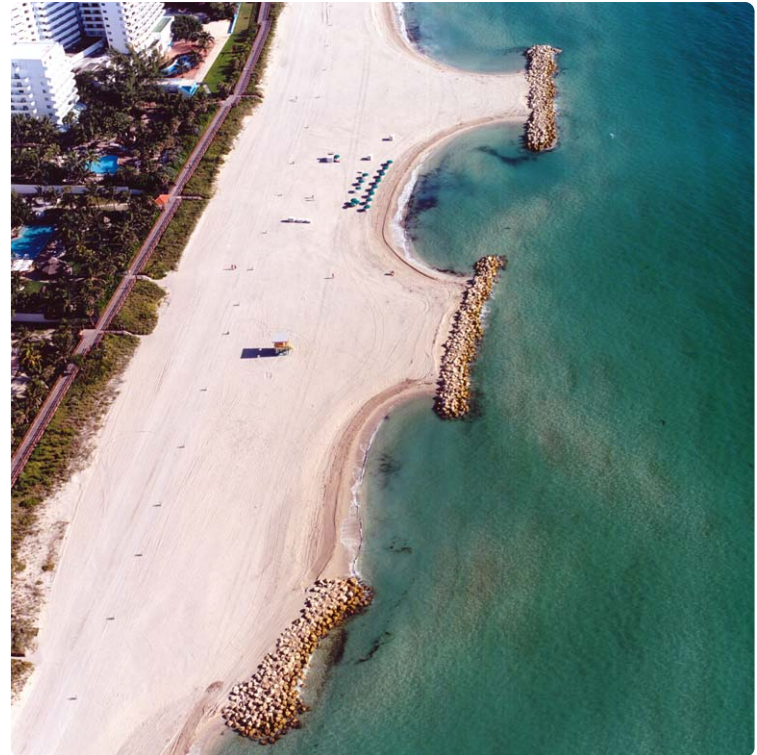


The Miami Beach 32nd Street Hot Spots stabilization project represents an innovative approach to hot spot management. Coastal Systems International, Inc. designed a system of three artificial headlands to stabilize the shoreline in the vicinity of 32nd Street. Numerical modeling using Danish Hydraulic Institute's (DHI) MIKE 21 software was performed to assess the potential for downdrift impacts and optimize the headland configuration.

In addition to artificial headland construction, this project included sand recycling. Sand recovered from accreting areas of Miami Beach was used to refill the structures and nourish the beach at 32nd Street. This approach resulted in lower construction costs and an efficient use of sand resources. Coastal Systems prepared construction plans and specifications for the project, and construction administration were provided. Monitoring efforts are underway to evaluate structural performance.



MIKE 21 Numerical Modeling



Breakwaters



Construction of Coastal Structures

Client:	Miami-Dade County Department of Environmental Resource Management (DERM)
Location:	Miami Beach, Florida
Date of Completion:	2002
Construction Cost:	\$ 900,000

