

PART IX
ANNOTATED BIBLIOGRAPHY

Ecological Effects of Beach Nourishment

Courtenay, W.R., B.C. Hartig and G.R. Loisel (1980) "Ecological Evaluation of a Beach Nourishment Project at Hallandale (Broward County), Florida: Volume I - Evaluation of Fish Populations Adjacent to Borrow Areas of Beach Nourishment Project", U.S. Army, Corps of Engineers, Coastal Engineering Research Center, Miscellaneous Report 80-1(I), 23 pages.

A study of the fish populations was conducted within the surf zone and over the first and second reefs seven years following the Hallandale beach nourishment project (1971). A previous study conducted during and after dredging activities had noted extensive damage to offshore patch reefs. The present study assessed the status of fish populations in the borrow areas. It was found that no damage could be identified on the second reef off Hallandale. The first reef appears to have been affected through deposition of fine grained sediments. No attempt was made to quantify the degree of this damage. Additionally, it was found that the visibility over the inner reef appeared to have been affected by suspension of the fine fraction of the nourishment material.

Culter, J.K. and S. Mahadevan (1982) "Long-Term Effects of Beach Nourishment on the Benthic Fauna of Panama City Beach, Florida", U.S. Army, Corps of Engineers, Coastal Engineering Research Center, Miscellaneous Report No. 82-2, 94 pages.

This study was conducted over the period 1979-1980 to determine whether any long-term effects of the 1976 beach nourishment at Panama City, FL were discernible. Sampling included forty-seven stations on nine east-west transects and two borrow pit areas. No effects on temperature, salinity or grain size or carbon content characteristics were found to be attributable to the dredging. Although the biota parameters were found to differ from the baseline surveys the magnitude of these variations were such that it was concluded that they could be due to temporal fluctuations. It was concluded that no long-term adverse