

BEACH MONITORING PROJECT
SAND KEY PHASE II BEACH NOURISHMENT PROGRAM
Post-Nourishment Report
PART II – Offshore Profiles and Wave Data (Survey of Jan 25–26, 1989)

INTRODUCTION

This is the fourth of a series of reports presenting offshore survey results for the Sand Key Phase II beach nourishment project carried out in June, 1988. This project comprised the placement of 369,714 cubic yards of sand (paid yardage) obtained from Johns Pass ebb tidal shoals, delivered by pipeline dredge and placed along 1.6 miles of Sand Key shoreline. As shown in Figure 1, the monitoring project encompasses approximately 3 miles of shoreline extending from Florida Department of Natural Resources (FDNR) Monument No. R-96 to FDNR Monument No. R-111.

This field program to document the performance of this beach nourishment program is a joint effort between the University of South Florida (USF) and the University of Florida (UF). The USF has presented their results in a series of three reports.

This report is organized as follows. The main body of this report describes the survey methods, problems encountered and any necessary adjustments to the survey data. The following section presents an analysis of volume changes of sand for the entire survey region at North Redington Beach and Redington Shores. The volumes of sand remaining as determined by the January, 1989 survey are compared with the first post-nourishment (July, 1988) surveyed volumes, thus providing a measure of project performance over this seven month period. The final section of the main body describes the wave data from the Clearwater gage which is maintained by the University of Florida. Appendix I presents the combined USF and UF profiles for the third post-nourishment (Jan 25–26, 1989) survey. Appendix II presents, for each profile line, the profiles obtained from the first (July 88) and third (Jan 89) post-nourishment surveys. Appendix III presents the wave data obtained in December, 1988, and January, 1989, from the UF maintained gage off Clearwater. The digitized data for this and the three earlier surveys in the form of floppy disks have been forwarded to Pinellas County and the Division of Beaches and Shores of the Florida Department of Natural Resources.