



DEPARTMENT OF THE ARMY
WATERWAYS EXPERIMENT STATION, CORPS OF ENGINEERS
3909 HALLS FERRY ROAD
VICKSBURG, MISSISSIPPI 39180-6199

REPLY TO
ATTENTION OF

CEWES-CD-SE (1110-2-1403b)

19 APR '90

Handwritten notes:
P21/40
file
Mobile
for
feeder berm

MEMORANDUM FOR Commander, U.S. Army Engineer District, Mobile,
ATTN: CESAM-OP-OM (Mr. Paul Bradley), P.O. Box 2288,
Mobile, AL 36628-0001

SUBJECT: Progress Report, Sand Island Feeder Berm, Mobile Harbor, AL

1. Accomplishments during March 1990 included the following:

a. Met with members of the Mobile Berm Technical Committee in Vicksburg for the Dredged Material Management Course. Agreed Sand Island berms and the Outer Mound should be resurveyed upon completion of the Phase I deepening (expected in May). The last survey for FY 90 should be done in September to provide as much time as possible between it and the 1991 spring survey.

b. Traveled to Dauphin Island with Dredging Research Program sponsored contractor working on new methods for interpreting seabed drifter (SBD) results. Met with area fishermen, the contractor who releases SBD's, personnel from the Fisheries Research Laboratory, the Dauphin Island Sea Lab, Alabama Department of Conservation, and the Sea Grant Advisory Service. Effects of trawling are important at this site and will have to be considered in interpretations of SBD results. The meetings were helpful toward this end and also produced informal proposals for possible future cooperative coastal investigations.

c. Held discussions with Dr. Scott Douglass (who is funded by the Town of Dauphin Island and the Alabama Department of Economic and Community Affairs (ADEC)) to prepare a report on shore erosion at the east end of Dauphin Island. Cooperation by Mobile District and Waterways Experiment Station personnel should provide compatibility between his findings and our dredging investigations. A joint abstract with ADEC and Corps authorship was prepared for submission to the American Society of Civil Engineering Conference, SEDIMENTS '91.

d. Completed the Sand Island survey interrupted in February by bad weather. The survey included hydrographic soundings and sediment sampling.

e. Released SBD's from the standard six sites.

f. Brought real-time wave and current system back on-line after a 15-day lapse.

g. Revised wave and current data base for the 1988 hurricane period to be consistent with new analysis procedures.

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h. Entered information from 220 SBD's returned February into the Coastal Engineering Research Center data base.

i. Calculated changes in volume and locations of centroid for the Sand Island Mound for 16 different intervals spanning the period from December 1986 to August 1990.

j. Revised final draft of initial Sand Island report in response to internal review comments.

2. Plans for April 1990 include the following:

a. Complete a draft summary of long-term changes on the Sand Island Mound.

b. Complete analysis of all previously collected wave and current data using upgraded routines and new summary procedures.

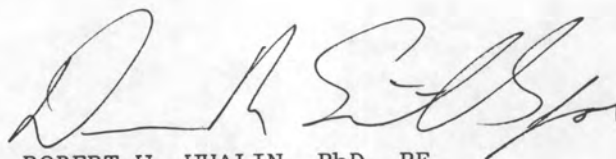
c. Continue collecting and reducing data from the real-time system.

d. Complete "thank you" letters for the volunteers who returned SBD information in March.

e. Prepare executive summary for Sand Island report.

3. Should any questions arise concerning this progress report or study, please contact Mr. Edward Hands (601/634-2088) directly.

FOR THE COMMANDER AND DIRECTOR:



ROBERT W. WHALIN, PhD, PE
Technical Director

CF:

CESAM-OP-OM (Mr. Pat Langan)
CESAM-EN-PS (Mr. James Reeves)
CESAM-PD-E (Mr. Hugh McClellan)
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CESAD-CO-O (Mr. Jim Kelly)
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