



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

March 30, 1990

REPLY TO
 ATTENTION OF

Coastal Structures and
 Evaluation Branch

Mr. Wade Jumonville
 John E. Chance & Associates, Inc.
 200 Dulles Drive
 Lafayette, Louisiana 70506

Dear Mr. Jumonville:

Thank you for the excellent briefing your team provided last week on your global positioning systems, long-range side scan, and geodetic capabilities. We are interested in the heave-compensated swath surveying system you are considering, as it appears to have potential to reduce survey costs. It may also be advantageous where unusually dense coverage is required (for example, to assure complete capping of one material with another). I hope we were able to give you a better understanding of Corps' coastal applications. However, as I said, most of our hydrographic work is done under contracts established by the Corps' District offices.

We would like to help further verify grain-size mapping by comparing ROXANN results with grab samples at Mobile. I have discussed this briefly with the Mobile District (SAM) and with Mr. Brian Apsey at Odom Hydrographic Systems. They seem eager to collect the data as a cooperative, no-fee demonstration. Results could be analyzed and reported under the "Field Techniques and Data Analysis" work unit of Technical Area 1 in the Corps' Dredging Research Program (DRP). I am enclosing a brochure on the DRP.

The next survey at Mobile will probably be in June. Mr. Donald Thrower will contact you when the date is firm. Meanwhile, please let me know if I can do anything else to facilitate the field comparison. Perhaps Odom, SAM, you, and I should discuss it in a conference call.

Will John Chance & Associates participate in the Offshore Technology Conference in May? Several people will attend from here. I am enclosing a preprint of my presentation. Could I see the data reduction and mapping facilities in your Houston office while I am there that week?

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Thank you again for the briefing.

Sincerely,

Edward B. Hands
Coastal Structures and Evaluation Branch
Engineering Development Division
Coastal Engineering Research Center

Enclosures

Copies Furnished (wo/encls):

Mr. Paul Bradley
Mobile, AL

Mr. James Reeves
Mobile, AL

June 13, 1989

Project Operations Branch

RADM William H. Stewart, U.S.C.G., Retired
221 Walshwood Avenue
Mobile, Alabama 36604

Dear Admiral Stewart:

On behalf of the U. S. Army Corps of Engineers I would like to thank you for your assistance with our seabed drifter experiments.

Seabed drifters are being used as part of a study to assess movement of sand that was dredged from the Mobile Harbor Entrance Channel and placed in shallow water approximately four miles south of the eastern end of Dauphin Island, Alabama in a mound configuration as shown on attachment one, figure one. The seabed drifter which you recovered in April 1989 was released from that area on March 20, 1989 from station SD-3 (SN-10421) shown on attachment one, figure two. The drifter card No. 9971 which you returned in February 1989 was released from Station SD-6 on January 20, 1989.

Volunteer efforts such as yours are helping us evaluate alternative plans to improve dredging operations and conserve sand resources. Seabed drifters move along the sea floor with bottom currents. By knowing the seabed drifter release points and recovery locations, information is gained on directional movements of bottom currents. In conjunction with measurements of winds, waves, currents, and sediment motion, seabed drifters can help us identify the best locations for placing material in the offshore zone to augment the sand supply to eroding beaches.

The enclosed news release, attachment two, and paper entitled "Dredged Material Underwater Berms", attachment three, provide further information on the experiment. Once again, thank you for participating in this program.

Sincerely,

Attachments

Albert F. Pruett
Chief, Project Operations Branch

Bradley
Bradley

Langan
Baxter
Pruett