



United States Department of the Interior

GEOLOGICAL SURVEY



BRANCH OF ATLANTIC MARINE GEOLOGY Woods Hole, MA 02543

91025

To: Distribution

From: David Foster *Dave*

Date: May 30, 1991
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Subj: Cruise Report for 1991 eastern Lake Michigan survey

1. Vessel: RV GEO1, Western Michigan University
2. Cruise no.: GEO91-1
3. Parent Project: Regional Great Lakes
4. Funding Agency: NOAA
5. Funding Amount (total): 250,000
6. Contract Number: 1-9470-0514
7. Contract Dates: 4 August - 8 August, 1991
8. Area of Operations: Michiana, MI to Benton Harbor, MI
9. Dates and Ports: August 4-7: St. Joseph, MI
August 8: New Buffalo, MI (demobilize)
10. Scientific Party: D. Foster (AMG), Co-chief Scientist
D. Folger (AMG), Co-chief Scientist
A. Brill (AMG), Scientist
B. Irwin (AMG), Navigator
D. Wardwell (W. Michigan Univ.), Boat Operator
11. Purpose of Cruise: Acquisition of surficial sediment samples to verify the NPTN91-1 sidescan sonar interpretations. Reconnaissance of geologic framework and surficial sediment texture.
12. Navigation: GPS and DGPS, Navigation Software provided by B. Irwin

13. Scientific Equipment: Shipek grab sampler, small Vanveen grab, pipe dredge, and echosounder.

14. Days at Sea: 3 days

Data Collected: Of the proposed 131 sampling stations, 111 stations were occupied. Samples were successfully recovered from 104 stations. Echosounder records were collected while on sampling stations.

15. Map showing sample station locations is attached

cc: D. Folger
C. Brown
B. Irwin
K. Parolski
C. Polloni
B. Seekins
B. Butman
N. Soderburg ✓
A. Sallenger
T. Straw
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G. Meadows
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D. Stauble
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A. Brill

