



United States Department of the Interior

GEOLOGICAL SURVEY

San Juan Marine Geology Project

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IN ADMIN " R. K. Bailey

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85018

CRUISE REPORT

Cruise: 85-02

Location: Rio Bayamon to Rio Loiza, Rio Grande de Arecibo and
Rio Cibuco river mouths

Dates: 5 - 25 June and 3 - 10 July 1985

Research Projects: a) Erosion study
b) Heavy mineral study
c) Geologic mapping
d) Storm sedimentation study

Objectives: High resolution seismic profiling of nearshore areas
names above.
Vibracoring

Vessels: Research Vessel Jean A
Research Vessel Boriken

Personnel: Rafael W. Rodriguez, USGS/Chief Scientist
Richard Webb, USGS/DNR
Eileen Rodriguez, USGS
Juan Trias, USGS
Jose Muniz, DNR
Nelson Espinell, DNR

Equipment: Micro-sparker and diver operated vibracorer.
Navigation by radar and mini-ranger for nearshore areas.

Results & Comments: High resolution seismic profiles were obtained at
the river mouths of the Rio Grande de Arecibo and Rio Cibuco.
These profiles will help determine vibracoring sites for the
heavy mineral study.

The seismic profiles from Rio Bayamon to Rio Loiza nearshore
areas will help us identify sand deposits to be used as
borrow sites for beach nourishment projects in the Metropolitan
area.

Number of days at sea: 27