



United States Department of the Interior

GEOLOGICAL SURVEY

San Juan, Puerto Rico

3 March 1982

Received 3/11/82
NO ROSCOP - Date
to PRDNR
42003
82003
MAR 11 1982

CRUISE REPORT: 82-2

Prepared By: Juan Luis Trias, Geologist

Location: Jobos Bay, south coast of Puerto Rico

Dates: 1 February - 18 February 1982

Objectives:

1. P.R.D.N.R. had a contract from P.R. Electric power to survey possible channel areas of Bahía de Jobos for possible dredging in the near future of deep channel for coal freighters. Cooperation with the U.S.G.S. was secured thru the Marine Geology Project.
2. To make seismic and bathymetry profiles with highest possible resolution.

Vessels:

1. Research Vessel Jean A (Jean-A served as base and hotel depot)
2. Research Vessel Rachel Carson (Rachel Carson, a 42-ft. boat from P.R.D.N.R. was used for surveying).
3. 14-ft. outboard, from P.R.D.N.R. for surveying in very shallow areas.

Personnel:

Ramón Alonso, P.R.D.N.R., Chief scientist
Juan Luis Trias, U.S.G.S., scientist
James V.A. Trumbull, U.S.G.S., scientist
Rusty Tirey, U.S.G.S., - Woods Hole, scientist
Dave Nichols, U.S.G.S., - Woods Hole, electronic technician
Nelson Espinell, P.R.D.N.R., field technician
Capt. Cristobal Borrás, P.R.D.N.R., Ranger, Captain of Rachel Carson
Julio Ortiz, P.R.D.N.R., utility man

Equipment:

Raytheon DE-719 portable echo sounder, Uniboom system, Sparker system, Miniranger system with 3 transponders, Equipment for construction of towers to install transponders.

Results & Comments:

1. The first four days were for setting gear and transponder stations in a very rough country area.
2. The surveying time for each day was short due to the bad weather in the area (rough seas and strong winds).
3. Estimated total length of seismic lines 20 N.M.
4. Total of 14 boat days
Total number man-days at sea U.S.G.S. = 56 days
Other = 56 days.

112 man days