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United States Department of the Interior

GEOLOGICAL SURVEY

San Juan Marine Geology

81017

30 June 1981

Cruise Report

by

Juan Luis Trías

Cruise No.: 81-7 (First part)

Location: South coast of Dominican Republic

Dates: 8-26 June 1981

Objectives: Make high resolution seismic profiles for reconnaissance use in:

1. For research into late pleistocene and holocene sea-level rise and coral reef history.
2. Investigation of sand resources in certain areas of Dominican Republic.
3. Collect sediment samples offshore Dominican Republic coast to make grain and trace metals analyses in the Geo-laboratory of the Department of Natural Resources.
4. This data will be used for Rafael Rodríguez's PhD thesis.

Vessel: Research Vessel Jean A: Total 16 days

Personnel:

Rafael W. Rodriguez - USGS, Chief scientist
James V.A. Trumbull - USGS, Co-chief scientist
Juan Luis Trias - USGS, Co-chief scientist
Jose Muñiz - P.R.D.N.R., Technician
Nelson Espinell - P.R.D.N.R. - Technician
Gregory Miller - USGS, Electronic Technician

Ensig. Victor Sosa - Liaison Officer of the Dominican Republic Navy

Total number of man-days at sea = USGS - 52 Other - 29

Equipment:

Uniboom and 3.5 Kh_z seismic systems
Radar navigation and Satellite
Shipek
Secchi Disc
Forel scale
Diving equipment
Zodiac to work in shallow areas
Camera (Nikonos IV)
Measuring Rod

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Cruise schedule:

	Day	Time	Place
June	8	0600	San Juan-Santo Domingo
	9	1140	Santo Domingo
	10	0700-1700	Santo Domingo-Haina
	11	0700-1840	Haina-Bahia de Ocoa
	12	0730-1815	Bahia de Ocoa-Puerto Viejo
	13	0715-1800	Puerto Viejo-Barahona
	14	0800-1200	Barahona-Cabo Rojo
	15	0710-2000	Cabo Rojo-Cabo Falso-Cabo Rojo
	16	0800-1830	Cabo Rojo-Isla Beata
	17	(0710)-18.(0745)	Isla Beata-Santo Domingo
	19	0930-1230	Santo Domingo-Santo Domingo (Demonstration for D.R. officials)
	20	0830-1700	Santo Domingo-Santo Domingo (Demonstration for D.R. officials)
	21	0730-1530	Santo Domingo-San Pedro Macorís
	22	1730-1930	San Pedro Macorís-San Pedro Macorís
	23	0710-1800	San Pedro Macorís-La Romana
	24	0620-1400	La Romana-Saona Island-La Romana
	24	(1620)-25.(1800)	La Romana-Green Beach-Vieques,P.R.
	26	1115-1530	Escollo de Arena, Vieques, P.R.-San Juan, P.R.

Results & Comments:

1. 19-20 June 1981 were protocol days: to show high dignataries of the government (Professors of Universidad Autonoma of Dominican Republic, Geologists of the Department of Mines, of D.R., Military personnel of the Office of Oceanographic Studies of the D.R. Navy and newsmen) the objectives and methods of this project.

2. The ship docked for half day in San Pedro de Macorís to repair a shaft shear pin in the left engine.

3. 111 sediment samples were collected (SDR 01-111) plus 54 seismic lines.

4. Total of 16 boat days, 96 man-days

   Estimated total length of seismic lines, 270 km.