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CRUISE REPORT

P007

Project: Puerto Rico Marine Geology Co-op  
Ship: R/V Jean A., Captain Eladio Rodriguez  
Cruise No.: 79-15  
Area of Operations: Cabo Rojo area, Puerto Rico  
Dates: 25 April - 4 May 1979  
Science Party: Jim Trumbull, Chief Scientist  
Kurt Grove  
Nelson Espinell (Miniranger)  
Jose Mufiz (Miniranger)  
Nick Lefteribu  
Al Goodman (left 29 April)  
John Larson (left 29 April)  
Jack Morelock, Univ. of PR (26-27 April only)

Days at sea: Ship 9  
Man-days, 35 at sea plus 18 shore support (Miniranger).

Purpose & Accomplishments: High-resolution seismic (Uniboom) and side-scan 0.5 km spacing to detail thickness and stratigraphy of Cabo Rojo West and Bahia Sucia sand-deposit areas and environs. Uniboom canyon heads and shelf channels, Tallaboa, Guayanilla, and Ventana areas, and shelf in Parguera area, for and in cooperation with Dept. Marine Sciences, Univ. of Puerto Rico. Accomplished 400 km uniboom lines, 80 km side-scan lines.

Navigation: Miniranger, excellent service.

Equipment: Uniboom, EPC 4100 recorder, tape-recorder, ORE side-scan, Miniranger

Comments:

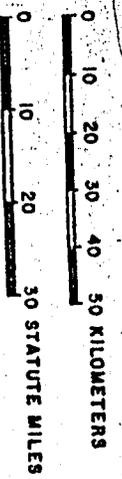
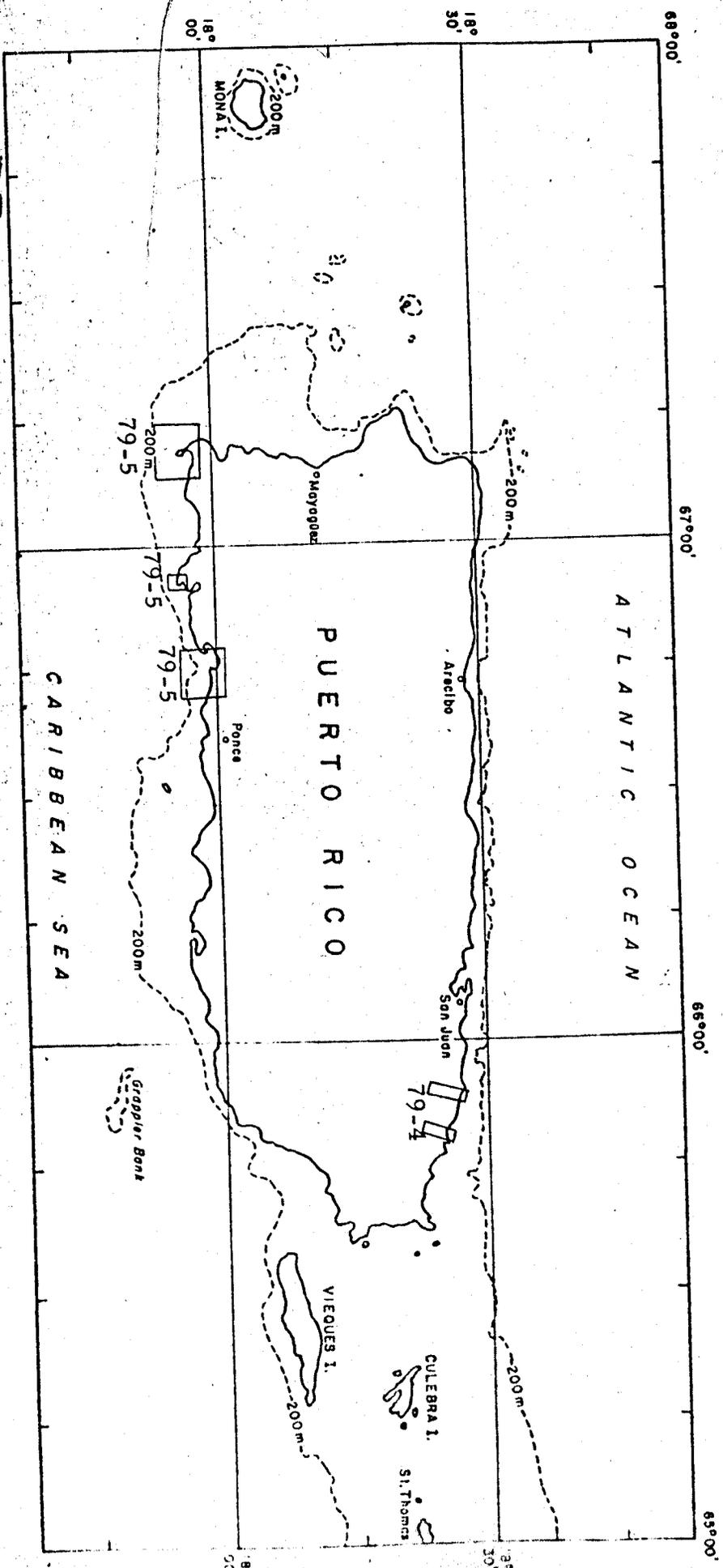
1. Miniranger operations in Puerto Rico require that each station be guarded full-time against theft and vandalism.
2. Next time Uniboom is on Jean A. the power supply must be below-decks. Must lengthen cable to sled to allow this.
3. Uniboom power supply plus sled sent to Woods Hole for thorough overhaul after cruise. Became inoperable late in cruise.

Navigation: Precision range ring on Jean A radar.

Equipment: Uniboom system recording on EPC recorder; 12 KHz with new hull-mount transducer, Giff and Edo transceivers (both of which were Woods Hole cast-offs and both of which failed), and UGR recorder; Shipek sampler.

No. days at sea: 10 (ten)

- Comments:
1. Uniboom excellent on P.R. sand deposit, and good on uppermost slope down to 500 m.
  2. R/V Jean A in excellent slope, crew is superb.
  3. Radio communications inadequate, must find money to re-crystal our SSB radios.
  4. Al Goodman did an excellent job of keeping electronic gear running in different circumstances.
  5. We have gone about as far as possible with Radar navigation, and must start using Miniranger-type systems. An absolute necessity for serious work in sand-deposit areas.
  6. Two 12-KHz transceivers became inoperative and forced cancellation of one piece of needed work. Get two functioning Edo 248 transceivers down from Woods Hole surplus stocks. Eventual solution: buy a piece of new gear and stop using old cast-offs.
  7. Superb luck on the weather for winter here.



**CRUISE TRACKS AND WORKING AREAS, FISCAL YEAR 1979**  
**PUERTO RICO MARINE GEOLOGY COOPERATIVE PROJECT**  
 Rectangles Indicate Operating Areas