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CRUISE REPORT

Ship Name: ROBERT D. CONRAD Cruise No: RC 2001

Departure: 7 May 1976 from New York  
Date Port

Arrival: 4 June 1976 at Panama  
Date Port

Days at Sea: 22 Days Foreign Port: 5 Panama\*  
No. of days in arrival port

Area of Operation: North Atlantic and Caribbean

Program Description: Multichannel seismic, normal profiling, sonobuoy & magnetics.

Participants: (All L-DGO unless otherwise specified)

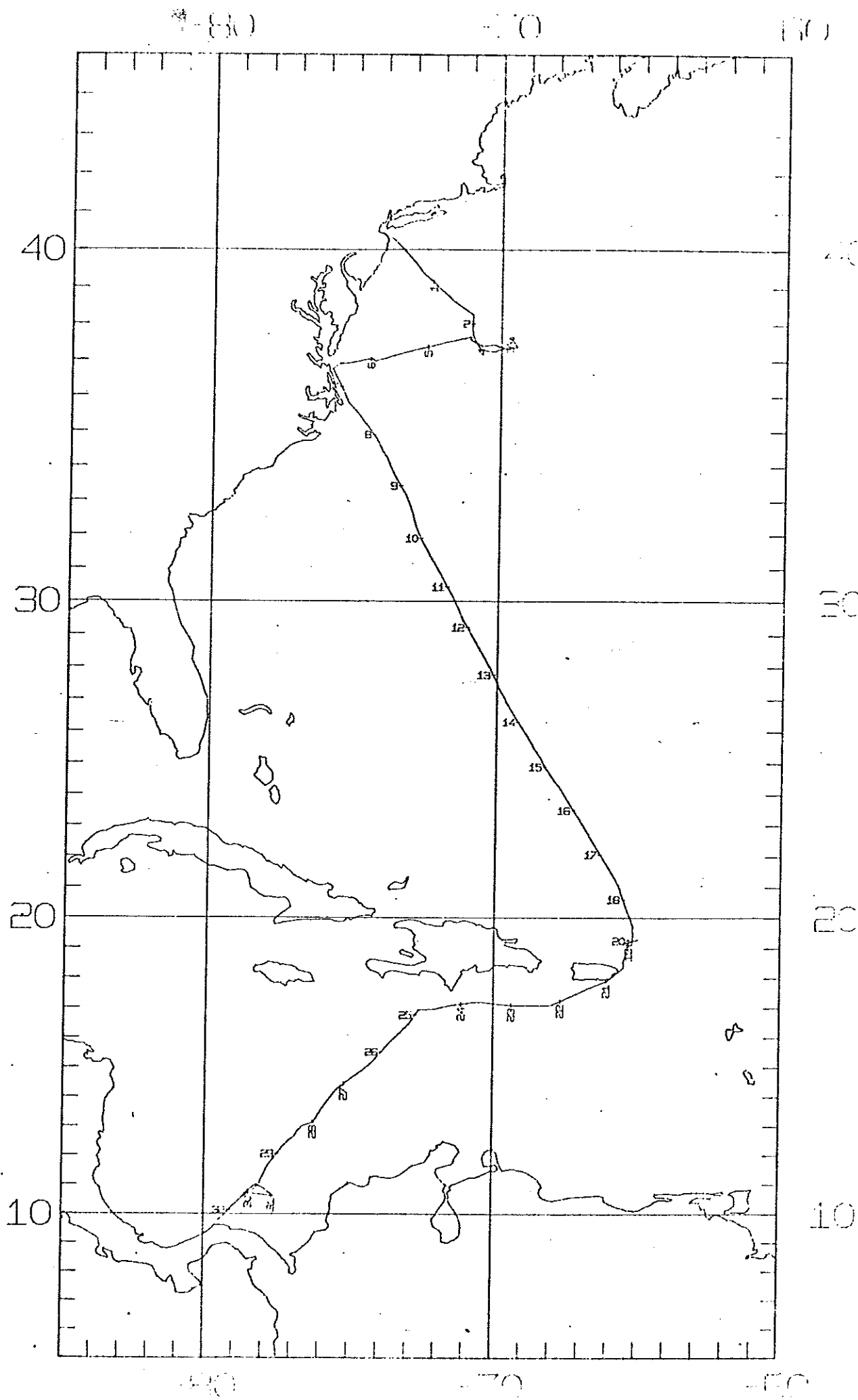
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|-------------------------------|---|
| 1. Aitken, T. Chief Scientist | 7. Sindt, J. Mach. Tech.                |
| 2. CRimmins, R. Core Bosun    | *8. Gavin, M. Multichannel E.T.         |
| 3. Crowell, B. E.T.           | *9. Naini, B. Multichannel Obs.         |
| 4. Grub, D. E.T.              | *10. Stennett, J. Multichannel Sr. Eng. |
| 5. Gutierrez, C. E.T.         | *11. Windisch, C. Multichannel Coor.    |
| 6. Iltzsche, M. Airgun        | **12. McCamy, K. Geophysics             |

\* New York to Norfolk, Va.  
\*\* Norfolk to Puerto Rico

Left NY 7 May Arrived Norfolk 12 May 6 days  
Left Norfolk 13 May Arrived Puerto Rico 21 May 8 days  
Left Puerto Rico 28 May Arrived Panama 4 June 8 days

All inquiries regarding cruise should be made to the chief scientist.

\* Also in Norfolk, Va., and Puerto Rico ports.



CONRAD 20 leg 1 was divided into three parts. On the first part, the ship sailed from Piermont early in the morning of Friday, May 7. It went to Earl, N.J., to load explosives. That evening we got permission to go to sea from the U.S. Coast Guard. This six-day run from N.Y. to Norfolk was used for checking and testing all the equipment, especially the multichannel setup. Line 16 was shot on this leg. The CONRAD went into the Little Creek Naval Base near Norfolk, Va., on Wednesday evening, May 12, and sailed the next evening.

That night, after leaving Virginia but before the seismic gear was in the water, there was a major power failure, which could cause the ship to go to San Juan, Puerto Rico, for repairs.

This second part of RC 2001 was a straight run, shooting some sonobuoys, from Virginia to  $19^{\circ}\text{N } 65^{\circ}\text{W}$ , which is north of the islands, where Keith McCamy made up an 1800-pound explosive charge to test the seismograph network in Puerto Rico and the Virgin Islands. Unfortunately, the charge failed to detonate on the morning of May 21.

The CONRAD went to Roosevelt Roads Naval Base, Puerto Rico, the next day to drop off Keith McCamy. While at Roosevelt Roads, the Chief Engineer claimed that there was an engine problem and that we could not sail without fixing it. So the explosives were unloaded so that we could enter the port of San Juan, and reloaded when we left San Juan.

After the delay in Puerto Rico, the CONRAD sailed to  $17^{\circ}\text{N } 68^{\circ}\text{W}$ , where it headed into the Panama Canal at 5 knots, using 3 large air guns (the fourth had been sent back to N.Y. for repair) to shoot one sonobuoy after another. This was to record the velocity and structure of the Colombia Basin and tie in with the CONRAD 13 E-W sonobuoy results.

On the leg RC 2001, there were no stations taken, there were no gravity

measurements, there were 48 sonobuoys shot, and there were 28 surface water samples taken for Ra<sub>226</sub> measurements for geochemistry in the North Atlantic.