

C R U I S E R E P O R T C 22 - 11

The CONRAD left Bermuda on Saturday, the 11th of August, to test the ship's noise on 5 hydrophones which had been installed in Halifax. This is one of the tests that ONR is going to run on various ships of the UNOLS Fleet, to see on which one or ones a Seabeam Array should be installed.

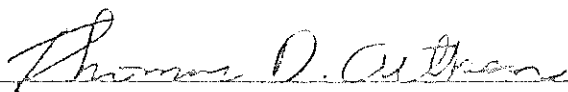
Before the CONRAD left the dock at St. Georges, the engineer and technician from General Instruments ran noise tests. Then as we left "Town Cut" and put out to sea, they ran more tests in the "shallow" water.

Every day they ran one series of tests in the different sea conditions, which only varied from about 2 to 3 1/2 (a low 4). One of the few times one went to sea and hoped for poor weather.

The tests were run on 5 different courses and 2 speeds (160 RPM ~10 kts; 110 RPM ~7 kts). The different courses were run to check the noise conditions as the sea hit the ship from different directions.

The 3.5 and 12kHz PDRs were turned off during the tests as they interfered with the listening frequencies for noise. The 12kHz PDRs did not work very well. We could not correct it at sea, but after having Harry van Santford look at the records here at Lamont, he decided that it was a mechanical problem related to the paper roller.

As the PDRs were the only instruments running during the leg, the watch standers were Karen Jacobs, myself and with many thanks, Chip Kennady.



THOMAS AITKEN

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CRUISE REPORT

Ship Name: ROBERT D. CONRAD

Cruise No: C2211

Departure: 11 AUG 79
Date

from ST. GEORGES, BERMUDA
Port

Arrival: 15 AUG 79
Date

at ROOSEVELT ROADS, PUERTO RICO
Port

Days at Sea: 4
(Count day of departure but
not day of arrival in port)

Days Foreign Port: 0, ARRIVE + SAIL ON SAME DAY
(number of days in arrival port
before next leg)

Area of Operation:

NORTH ATLANTIC

Program Description:

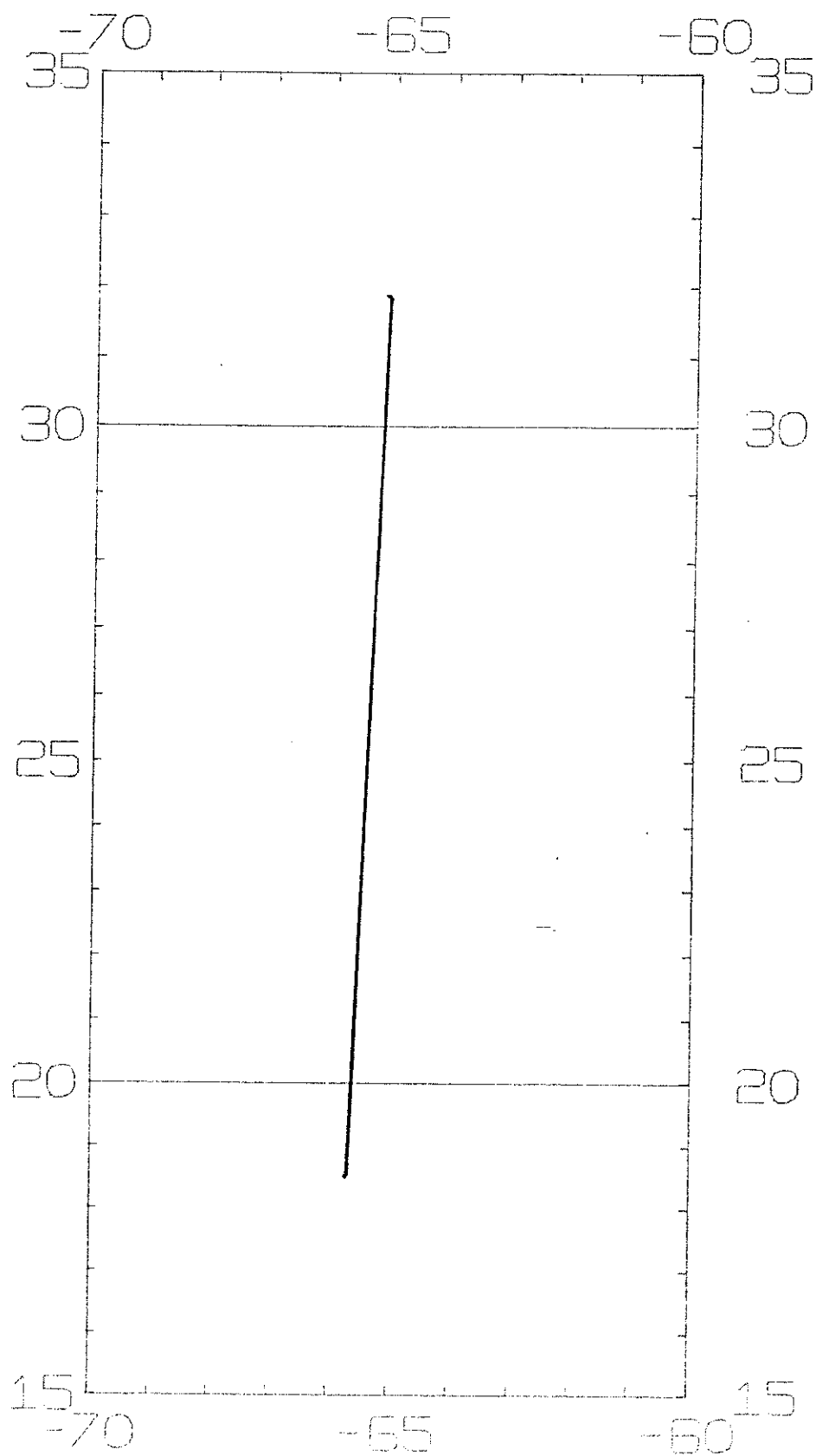
TO TEST HYDROPHONES, AC PER SEABEAM

Program supported by what contract: T.O 210

Participants: (All L-DGO unless otherwise specified)

<u>Name</u>	<u>Title</u>
AITKEN, THOMAS D.	CHIEF SCIENTIST
KENNERLY, HENRY	ASST. MARINE SPT.
JACOBS, KAREN	E.T.
CAPELL, WILLIAM JAC	GENERAL INSTRUMENTS, ENGINEER
ANTHONY, STEPHEN	GENERAL INSTRUMENTS
EGELSON, DAVID	USGS, WOODS HOLE, MASS
MOSS, GEORGE	NORDA, BAY ST. LOUIS, MISS
TYCE, ROBERT	SIO

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



C 22-11

BDA - ROOSEVELT R-411, P.R.