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TEST FIRING SERIES, PROJECT HARP

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Abstract: The report is a review and analysis of results of the eleventh test firing series of Project HARP with the Barbados 16.4 in gun. The test series consisted of twenty rounds which were fired in the period 31 May to 12 June, 1965. The general objective of this series was the gathering of scientific data, specifically wind shear data, and the continuation of vehicle development and reliability tests. Eleven rounds carried TMA release payloads for wind shear measurements in synoptic firings during three nights. In three of these rounds a 250 MHz telemetry package was carried with a temperature gauge and a magnetometer for temperature and magnetic field measurements. Modified Martlet 2C vehicles were instrumented with 1750 MHz telemetry and Langmuir probes, as well as with a magnetometer and temperature gauges, for electron density measurements in the upper atmosphere. Ejection tests with S-band **chaff** and parachute-suspended telemetry were also included in this series, and the structural performance of rocket grain at high launch accelerations was tested in two rounds.

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