

IRVE-3 flight hardware test sounding rocket

July 19 2012



Engineers checked out the Inflatable Reentry Vehicle Experiment after the successful completion of an inflation system test. Credit: NASA/ Sean Smith

NASA will launch an inflatable aeroshell/heat shield technology demonstrator on a Black Brant XI sounding rocket July 22 from the agency's launch range at the Wallops Flight Facility in Virginia.

The Inflatable Reentry Vehicle Experiment (IRVE-3) is the third in a series of suborbital flight tests of this new technology.

Technicians will vacuum pack the uninflated 10-foot (3.05 meters)

diameter cone of high-tech inner tubes into a 22-inch (56 centimeters) diameter [sounding rocket](#).

During the [flight test](#) an on board system will inflate the tubes -- stretching a thermal blanket that covers them -to create an aeroshell or [heat shield](#). That heat shield will protect a payload that consists of four segments including the inflation system, steering mechanisms, telemetry equipment and camera gear.

Provided by NASA's Goddard Space Flight Center

Citation: IRVE-3 flight hardware test sounding rocket (2012, July 19) retrieved 20 March 2024 from <https://phys.org/news/2012-07-irve-flight-hardware-rocket.html>

<p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p>
--