

Sounding Rocket Mission Fact Sheet

Mission: RockOn

Mission Number(s): 41.134 WO

Principal Investigator: Mr. Koehler/NASA Wallops Flight Facility

Launch Date: June 26, 2025

Launch site: Wallops Island, VA



Science Discipline:
Student Outreach

Payload:
665.2 lbs

Cubes-in-Space Experiment inside nose cone

Forward Experiment (4
RockSat-C canisters)

Aft Experiment (5 RockOn
canisters)

Ignition Recovery
Module Assembly
(IRMA)/CDI

Motor Adapter

Second Stage:
Improved Orion

Thrust:
>20,000 lbs

First Stage:
Terrier Mk 12

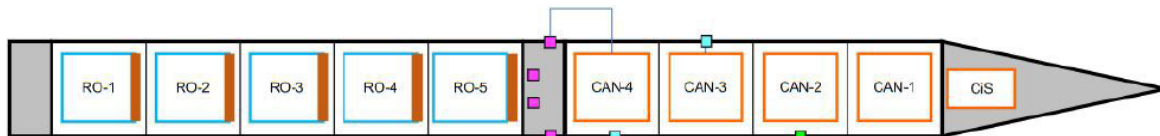
Thrust:
>40,000 lbs

Description

This mission carries two types of student experiments, RockOn workshop experiments and RockSat-C experiments. The RockOn experiments are built, tested and integrated by university students and faculty attending the week long workshop held at Wallops starting on June 20th. Teams of three participants complete experiment construction on a deckplate which is integrated into a canister and then into the payload structure for flight. The RockOn Faculty Workshop 2025 is providing one canister of experiments for this flight. The faculty members attended a workshop at Wallops Flight Facility in May to construct the experiments.

The RockSat-C experiments are more advanced and are built by teams of students prior to arrival at Wallops. Payload support systems are similar to RockOn experiments.

In 2025 five canisters carry RockOn workshop experiments and four canisters carry RockSat-C experiments. Seven Universities and Cubes-in-Space are providing RockSat-C experiments.



RO 1-5, RockOn experiments

CAN 1-4, RockSat-C experiments:

CAN-1 - Tidewater Community College & Louisiana State University

CAN-2 - Temple University & University of Colorado Colorado Springs

CAN-3 - University of Hartford

CAN-4 - University of Alaska & Stevens Institute of Technology

Nosecone: Cubes-in-Space

