

Wallops is A Unique National Asset

Wallops provides agile, low-cost flight and launch range services to meet NASA, DoD and commercial sector needs for accessing flight regimes worldwide from the surface to the Moon and beyond









Wallops Complex / Partners

ranges in the U.S. providing assured access to space, supporting NASA, DOD, OGAs, and commercial space. Provides mobile launch range capability supporting



Minotaur V: LADEE Mission to the Moon











Wallops Flight Facility – Wallops Island







SRP Program Elements

- Sounding Rockets Suborbital science rockets from worldwide launch sites
- Scientific Balloons Stratospheric science missions from worldwide sites
- Airborne Science Earth Science research using piloted and UAS operations
- **Special Projects -** Small satellite, ISS & ESPA-class mission development and operations
- Research Range and On-Orbit Operations
 - Launch range supporting rocket/missile missions Research airfield supporting aircraft/UAS operations and research
 - Mobile range enabling remote campaign missions Satellite tracking of NASA spacecraft
- STEM Education Activities
 - Hands-on flight projects for students and researcher training









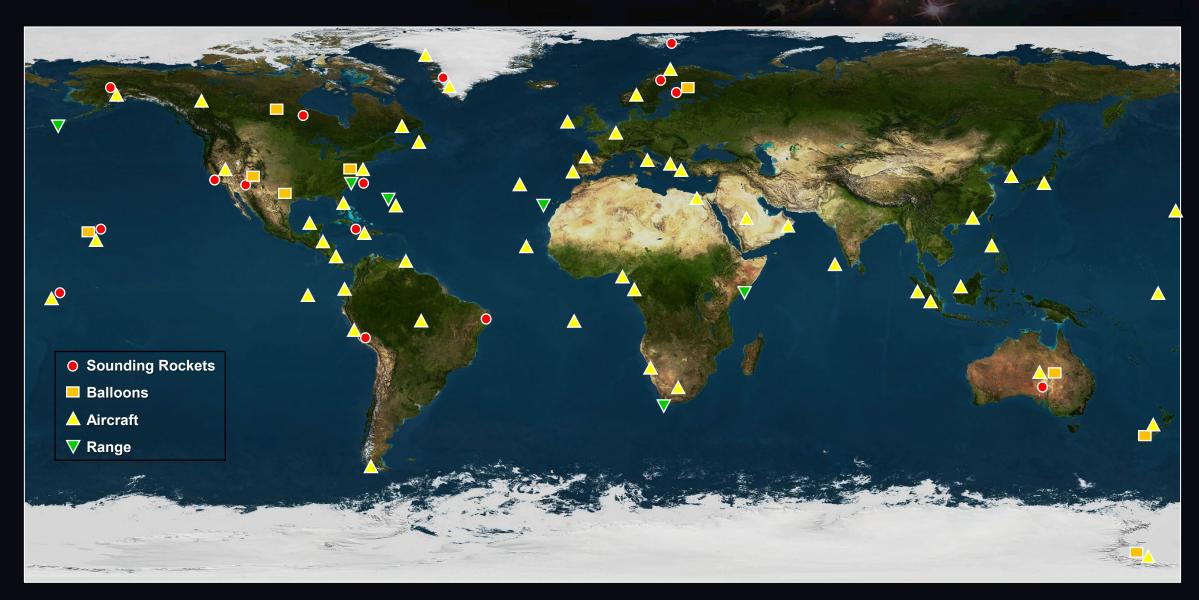






Where We Go...





Sounding Rockets Program Capabilities

- Provides suborbital launch vehicles, payload development, and field operations support.
- Provide researchers with unparalleled opportunities to build, test, and fly new instrument and sensor design concepts while simultaneously conducting world class scientific research.
- Operations conducted from fixed launch sites as well as mobile sites around the world.
- Characteristics:
 - ✓ Low cost
 - ✓ Quick turnaround
 - ✓ Minimalistic project teams
 - ✓ Highly flexible and agile
- Sounding Rockets Program Services:
 - ✓ Payload development
 - ✓ Mission and safety analysis
 - ✓ Launch vehicles
 - ✓ Operations support
 - √ Technology development



Sounding Rockets Program Office



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Scientific Balloons

- Provides low-cost, quick response, near space access for conducting cutting-edge science and technological investigations all over the world.
- Investigations include fundamental scientific discoveries that contribute to our understanding of the Earth, the Sun, the solar system, and universe.
- Provides excellent training for next generation of NASA scientists and engineers.









Aircraft Science Office

NASA

- C-130 support to Cargo transport; Commercial Crew parachute tests
- P-3 Orion is a flying laboratory for Earth Science research











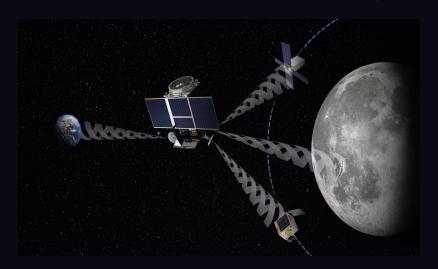
Small Satellite & Special Projects Office



Provides a bridge between suborbital projects at WFF and the larger spacecraft missions at GSFC.

Manages:

- CubeSats
- Smaller Satellite Missions
- Unique and complex projects implemented at WFF that don't fit the typical program tiers









Research Range

- The Research Range consists of a launch range and associated tracking, data acquisition, and control instrumentation systems.
- Scientists and engineers from NASA, other U.S. government agencies, colleges and universities, commercial organizations, and the world-wide scientific community have conducted experiments using the range.
- The Range provides services necessary for a wide variety of research, development, and operational missions, including rocket, balloon and aerial vehicle flights.
- Manages and operates small satellite tracking stations locally.
- Has the capability to support launch operations worldwide with mobile range instrumentation and equipment.











NG-11 – April 2019











WFF Airfield

Wallops Projected Launch Rate 2022-2030



- Sounding Rockets, ISS resupply, and military testing provide NASA, DoD and Commercial launches growth to 25-30 launches annually by 2030

