
Goddard Space Flight Center's
Wallops Flight Facility
NASA

GSFC/Wallops Flight Facility

Vital national asset, providing assured access to space, supporting NASA, DOD, and commercial space.

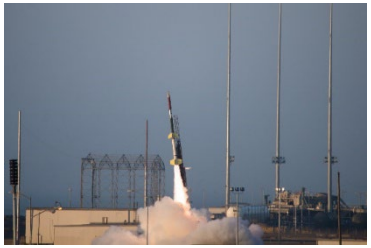
*Wallops is NASA's **premier provider** of fast, inexpensive access to the air and space environment for science, technology, commercial and academic activities.*

WFF Research Airfield

WFF Launch Range

***Wallops serves** as a multi-user/multi-tenant facility ideal for conducting suborbital scientific investigations, technology development, and enabling commercial aerospace*

Sounding Rockets



*NASA **Sounding Rockets** provide scientific, technical, and educational contributions to the nation's space program*

Scientific Balloons

*NASA **Balloons** provide a versatile and cost efficient platform for conducting scientific and technological investigations*

Airborne Science

*NASA **Airborne Science** provides aircraft systems that further science and advance test, CAL/VAL and refine new instrument technologies*

Small Satellites

***Small spacecraft** help NASA advance scientific and human exploration, reduce the cost of new space missions, and expand access to space*

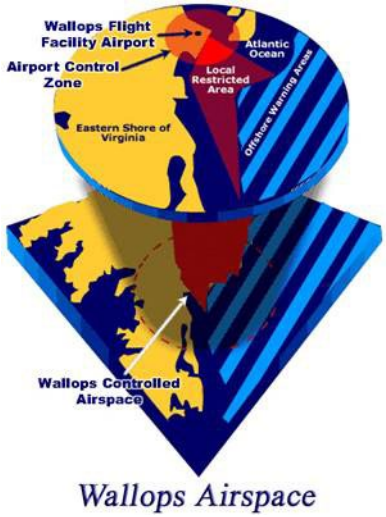
Goddard SPACE FLIGHT CENTER

GSFC/Wallops Strategy

1. Deliver on our mission, maintain and extend Wallops' suborbital/orbital capabilities
   - Advance science, exploration, Space Tech and Aero
2. Enable new lines of access to space using emerging commercial nano-launch capabilities
   - Leverage WFF space technology and facility investments
   - Integrate WFF airfields/airspace, UAS Test & Operations site for support of NASA, DoD, and commercial UAS
   - Support national security missions
3. Partner with local institutions to grow a diverse, highly-skilled workforce in support of NASA and the nation
   - Promote new government-private sector partnerships
   - Expand pipeline through more student interns and align to regional universities, tech high schools, companies.

Wallops Research Airfields

- Main base Airfield
  - 2 Runways > 8000 ft
  - 1 Runway > 5000 ft
  - 2 Hangars, 1 dedicated to customer support, complete with fire, crash, rescue.
  - Restricted Airspace R-6604

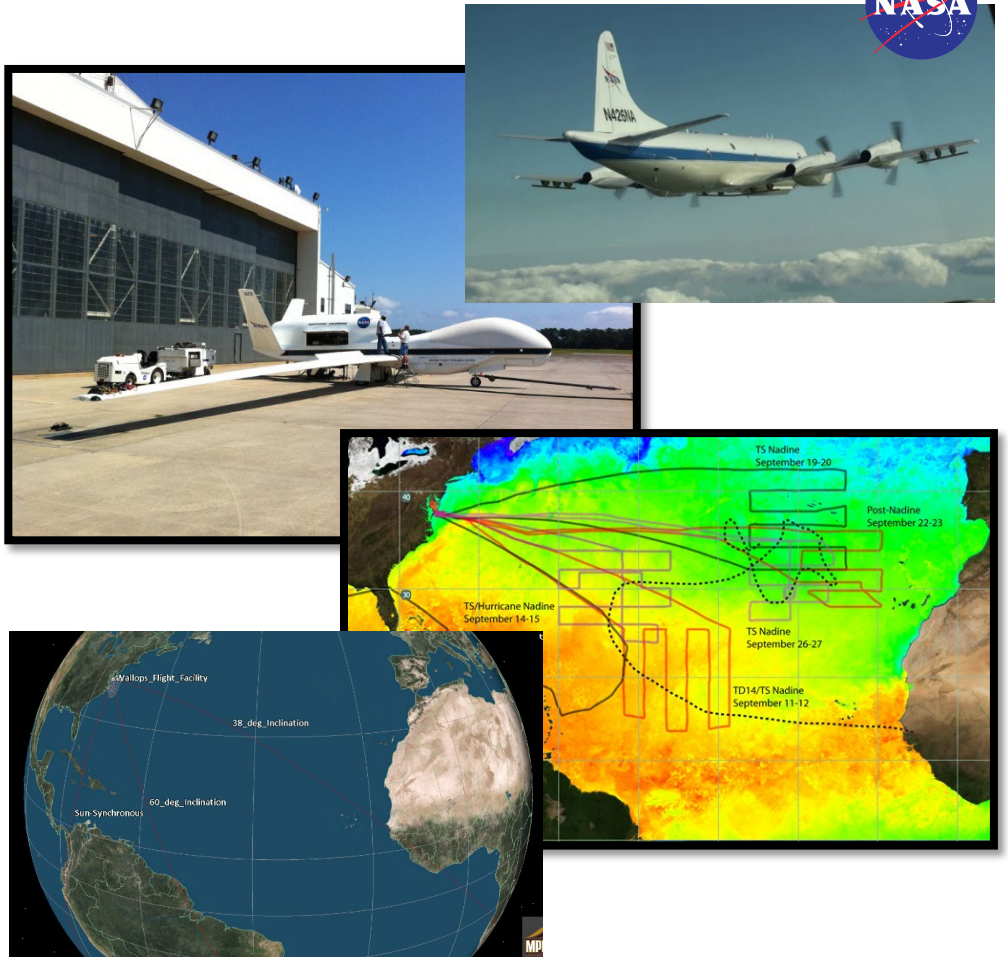


GSFC/WFF Aeronautics Support

- Areas and opportunities to collaborate include:
  - Leverage WFF/LaRC regional aeronautical expertise, Airfield and maintenance activities, support ARMD aeronautical research and flight operations to the benefit of NASA .
  - Provide ARMD greater access and reduced costs to operate at WFF Airfield for aeronautics research, and UAS flight testing and mission support.
- Unmanned Aerial Systems (UAS)
  - Provide mission support to NASA for quick access to operate at WFF Airfield/UAS Runway for aeronautics research.
  - Support UAS flight testing of NASA UAS models, UAS instruments and technology on other UAS missions from Wallops.

Major Airborne Science Mission Support

- Provides responsive global airborne access to the Earth Science community to support frequent flight opportunities for NASA scientific and technology development.
- Provide value added commercial (CAS) and other Center UAS platform services.
- Hurricane & Severe Storm Sentinel (HS-3)
  - A three-year NASA Earth Venture project to study physical processes that control storm intensity
  - Global Hawk unmanned aircraft operate from Wallops during August-October & deploy during early weather system formulation
  - During 2012, Global Hawks overflew Atlantic Hurricanes Leslie and Nadine

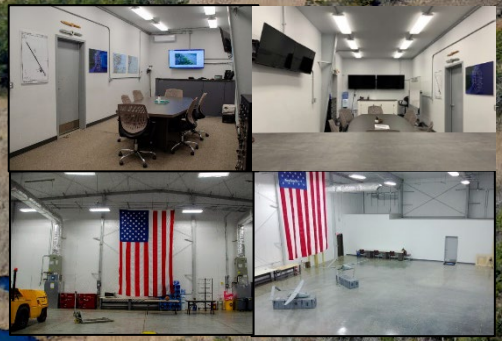


Working to advance UAS Capabilities

Wallops is strategically working with our corporate partners – such as Virginia Space, to support UAS operations and to exploit the growing UAS capabilities for NASA science and research, DoD and commercial UAS use.

- Provide mission support to NASA, DoD, Commercial UAS and manned aircraft for quick access to operate at WFF Airfield/UAS Runway for aeronautics research.
- Support UAS flight testing of NASA instruments and technology on other UAS missions from Wallops.
- Provide value added commercial (CAS) and other Center UAS platform services.
- Provide Range flight clearance, schedule offshore warning areas, flight management, and UAS airworthiness

UAS Runway



- 3,000 ft. long runway and 75 ft. wide
- Concrete pad measures 130 ft by 120 ft. and rated to 5,000 psi for VTOL operations
- Airfield surrounded by 75 sq. miles of restricted airspace available 24/7
- 90 ft. by 50 ft. hangar with a 70 ft. rollup door