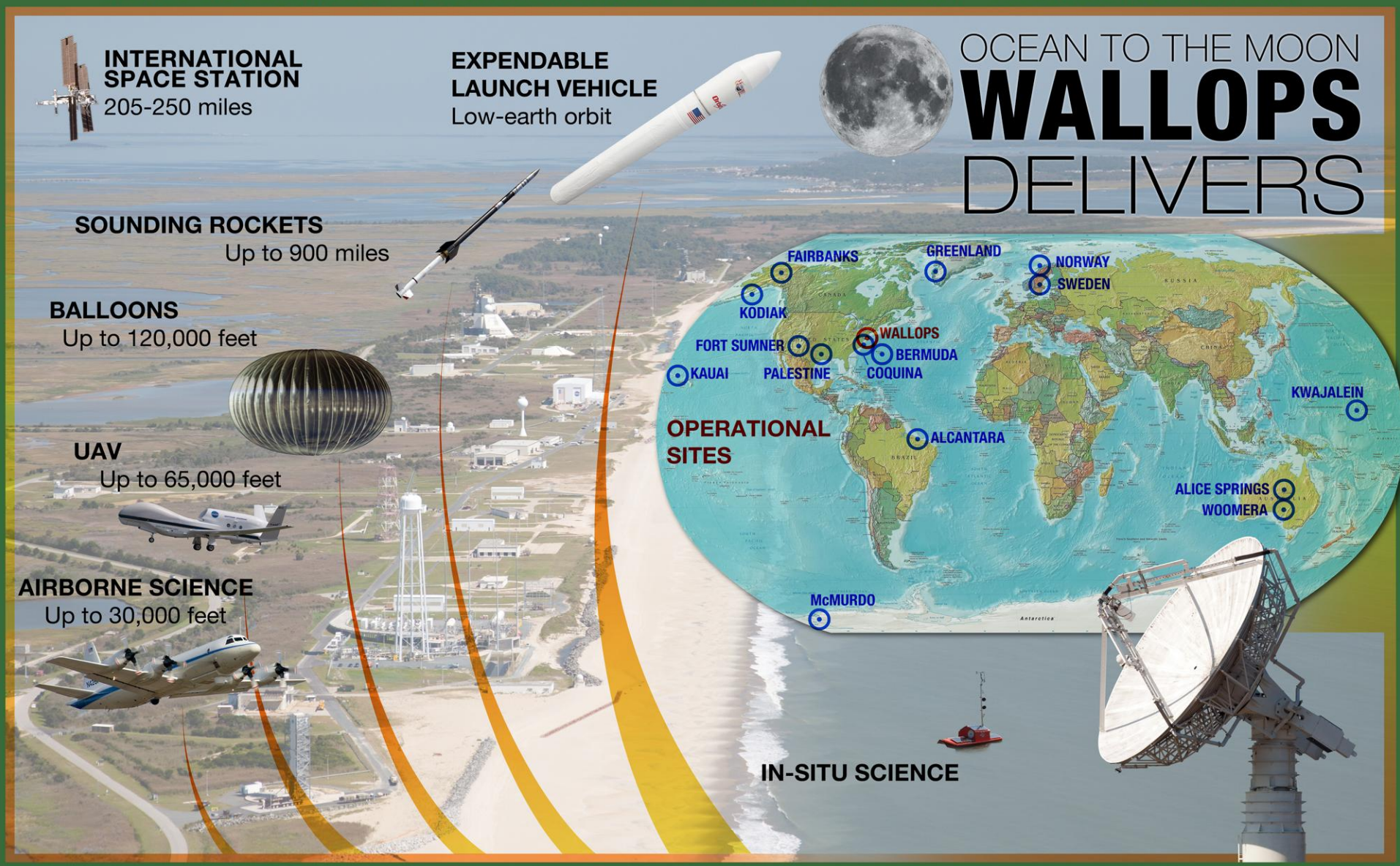
Wallops Flight Facility
"goes to where the science is…"

Goddard Space Flight Center

LAUNCH RANGE SERVICES - MISSION FORMULATION - PROJECT MANAGEMENT - TECHNOLOGY DEVELOPMENT



ENGINEERING - ORBITAL TRACKING - EARTH AND OCEAN SCIENCE - SAFETY - EDUCATION

NASA Education Flight Projects

Authentic Technology and Engineering Experiences

Wallops Flight Facility Education

WFF Internships

32 WFF Education summer interns selected for 2014

In addition at WFF, there are 17 Pathway Interns and 14 contract interns.

WFF Pathway Internship available September 29, 2014 on www.usajob.gov

Education Interns working Antares Launch

Education, Pathways and Contract Interns

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FY 2014 Results

Educator Professional Development

87 Educators participated from 11 states and will reach 6,900 students

- Teacher Workshops conducted: WRATS, VA inSTEP Preservice, HS3/GPM/SMAP

Student STEM Opportunities

782 Students participated in WFF Education Opportunities

- Virginia Space Coast Scholars (VSCS): 254 high school sophomores completed online modules; 90 participated in 2 WFF academies
- Robotics Alliance – FIRST Robotics, VEX, Advanced Robotics Academy
- RockOn – 65 students; RockSatC – 35 students; Cubes in Space – 100
- 10 USIP (Undergraduate Student Instrument Project) – 106 students and 14 faculty; launched or are preparing to launch on suborbital platforms

Collaborations with School Districts and Higher Education

- **Collaborations with Eastern Shore universities/colleges and school districts**

Wallops Flight Facility Informal Education

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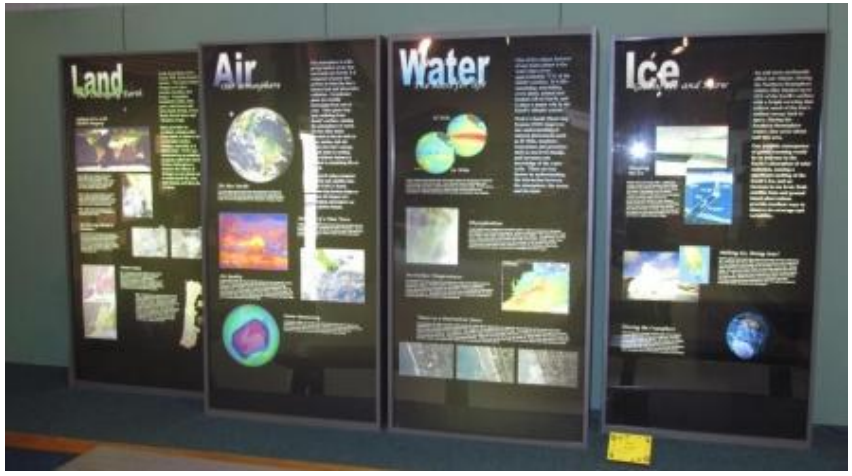
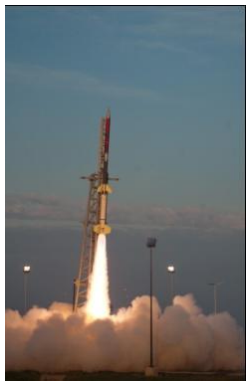
Wallops Flight Facility utilizes its Visitor Center to provide viewing opportunities for the public any time of day to view suborbital and orbital launches

Visitors Center Stats: 48,207 visitors YTD (CY2014)



Undergraduate Student Instrument Project (USIP)



USIP

The primary goal is:

- ***To provide a hands-on flight project experience to enhance the science, technical, leadership, and project skills for the selected U.S. university undergraduate student team.***

The secondary goal is:

- ***To fly a science payload having a purpose relevant to the Science Mission Directorate's science goals (http://nasascience.nasa.gov/) 10 proposals were funded in FY14.***

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Undergraduate Student Instrument Project (USIP)

NASA Suborbital Platforms	Universities	Projects
Scientific Balloon	University of Virginia Utah State University Catholic University University of Houston (weather balloon) Gannon University (small balloon)	Test CubSat with micro dosimeters Intensity emissions data in the 630 nm band Real-time attitude determination system Smartphone technology to study ionosphere Detect cosmic rays in energy range ~1-100
Parabolic Flight	Carthage College University of Central Florida	Test technique for measuring mass of liquid Test adhesion at low collision velocities
Sounding Rocket	West Virginia University	Ionospheric response to interplanetary magnetic storms
Airborne Science Aircraft	Louisiana State University	Sample microbial aerosols up to 5 altitude ranges
Commercial Carrier (Masten Xombie)	Carnegie Mellon University	Test mapping instrument to characterize pits, crater, and convex features in flight