

NASA Langley Research Center

Steve Gayle
Associate Director

09/08/2026



Spring/Summer 2026

- Center Updates
- Administration Focus
- Center Landscape
- Accomplishments
- Upcoming Events



IGNITION PRIORITIES

NASA is aligning agencywide initiatives to achieve the President's National Space Policy and advance American leadership in space.

GOING BACK TO THE MOON: Artemis cadence increases, standardized SLS, new LEO mission in 2027, semi-annual lunar landings thereafter.

BUILDING THE MOON BASE: THREE PHASES

- Phase 1 – Build, Test, Learn
- Phase 2 – Establish Early Infrastructure
- Phase 3 – Enable Continuous Human Presence

ENSURING AMERICAN PRESENCE IN LOW EARTH ORBIT (LEO): Commercial Crew & Cargo, International Space Station (ISS), Commercial Replacement for ISS

ADVANCING WORLD-CHANGING DISCOVERY WITH SCIENCE MISSIONS

NUCLEAR POWER IN SPACE: Space Reactor 1 (SR-1) Freedom & Lunar Reactor 1 (LR-1)

BUILDING X PLANES

INVESTING IN NASA'S WORKFORCE: Rebuilding core technical competencies



NASA Organizational Structure



Agency Organizational Structure

National Aeronautics and
Space Administration



Jared Isaacman
Administrator



Matt Anderson
Deputy
Administrator



Amit Kshatriya
Associate
Administrator,
Chief Engineer



Casey Swails
Deputy Associate
Administrator

Agency Organizational Structure



Space Operations Mission Directorate (SOMD)

Exploration Systems Development Mission Directorate (ESDMD)

Human Spaceflight Mission Directorate (HSMD)

- Dr. Lori Glaze, Associate Administrator
- Joel Montalbano, Deputy
- Kelvin Manning, Deputy
- Within HSMD, the primary divisions will be:
 - **Low Earth Orbit**, Dana Weigel as Program Manager (to include CCP, ISS, CLD)
 - **Moon Base**, Carlos Garcia-Galan as Program Manager
 - **Artemis**, Jeremy Parsons as Program Manager (renamed from Moon to Mars)

Agency Organizational Structure

National Aeronautics and
Space Administration



Aeronautics Research Mission Directorate (ARMD)

Space Technology Mission Directorate (STMD)

Research and Technology Mission Directorate (RTMD)

- Dr. James Kenyon, Associate Administrator
- Dr. Wanda Peters, Deputy Associate Administrator
- Within RTMD, the primary divisions will be:
 - **Aeronautics**, Laurie Grindle, Director
 - **Advanced Research and Technology**, Greg Stover, Director
 - **Space Reactor Office**, Steve Sinacore, Acting Director
 - **Space Communications and Navigation (SCaN)**, Kevin Coggins, Director

Agency Organizational Structure



Science Mission Directorate (SMD)

- Dr. Nicky Fox, Associate Administrator
- Dr. Mark Clampin, Deputy Associate Administrator

Mission Support Directorate (MSD)

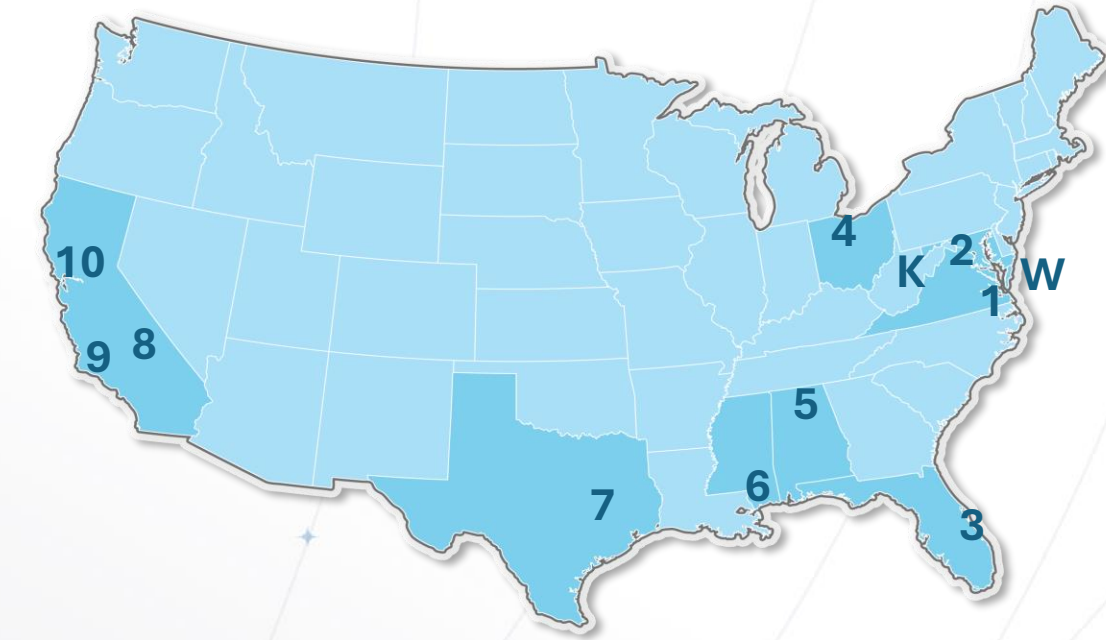
- John Bailey, Associate Administrator
- Eli Ouder, Acting Deputy Associate Administrator

NASA Locations

National Aeronautics and
Space Administration



- 1 Langley Research Center**
Aeronautics Center of Excellence
- 2 Goddard Space Flight Center**
Earth and Space Science Center of Excellence
- K Katherine Johnson IV&F Facility**
Software Assurance Center of Excellence
- 3 Kennedy Space Center**
Space Launch Center of Excellence
- W Wallops Flight Facility**
Space Launch and Range Center of Excellence
- 4 Glenn Research Center**
Research and Technology Center of Excellence
- 5 Marshall Space Flight Center**
Space Structures, Propulsion, and Infrastructure Center of Excellence
- 6 Stennis Space Center**
Propulsion Test and Enterprise Support Center of Excellence
- 7 Johnson Space Center**
Human Spaceflight Center of Excellence
- 8 Armstrong Flight Research Center**
Flight Test and Aircraft Operations Center of Excellence



- 9 Jet Propulsion Lab**
Deep Space and Robotics Center of Excellence
- 10 Ames Research Center**
Innovation Center of Excellence

Directives



- 1: Workforce & Organization
- 2: Associate Administrator for Communications
- 3: Associate Administrator for Science
- 4: Finance & Infrastructure (OCFO)
- 5: Associate Administrator for Legislative & Intergovernmental Affairs
- 6: Moon Base
- 7: Nuclear Power & Propulsion
- 8: Low Earth Orbit
- 9: Aviation Portfolio
- 10: National Space Policy Outcomes & Execution

Langley is up to the challenge...



Aeronautics

National Aeronautics and
Space Administration



Hypersonics



Aerosciences

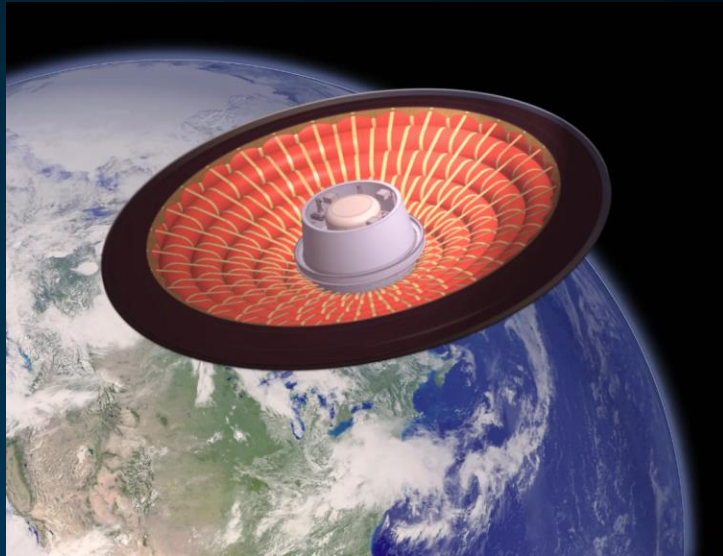


Vehicle Structures

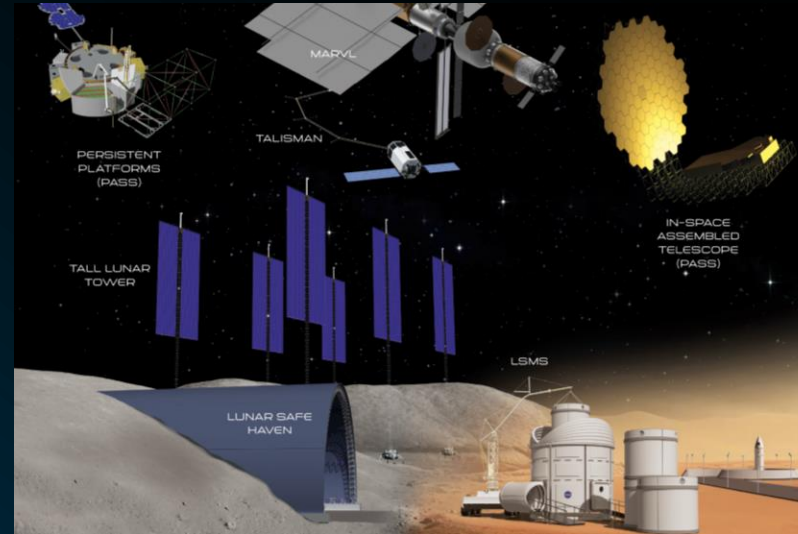


Autonomous Flight Systems

Exploration



Entry, Descent,
and Landing



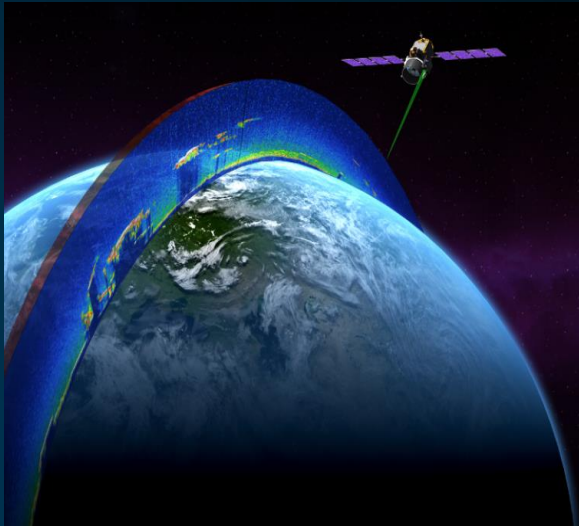
Space Structures



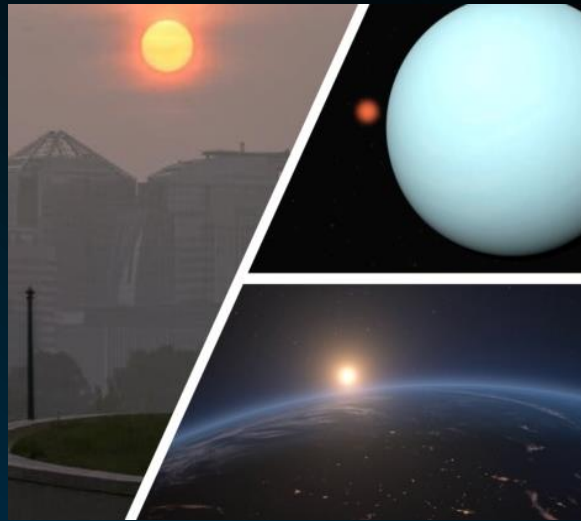
Systems Analysis Across
Space Mission Directorates

Science

National Aeronautics and
Space Administration



Space Instrumentation



Atmospheric Characterization



Airborne Missions



Science Data in Action

Langley's Foundation

Deliver Today – focus on execution activities, delivering on existing commitments.

Create Tomorrow – Focus on capabilities and partnerships development activities that enable Langley to meet future needs.

Improve Along the Way – focus on developing our workforce, efficiency of operations and process improvement activities.



Langley Strong

Center Org Chart (March 2026)



Center (A)

- Director: Trina Dyal
- Deputy Director: Allen Kilgore
- Associate Director: Steve Gayle
- Special Advisor: Lisa Ziehmman

DRP

Chief of Staff
Kim Brush

Chief Engineer
David McGowan

Executive Officer
Joyce Ortiz

Legislative Affairs
Kimberly Read

Research Services (D1)
Glenn Jamison

Aeronautics Research (E1)
John Koelling

Procurement (B1)
Gerald Norris (KSC)

Financial (B6)
Anna Irvine

● **Engineering (D2)**
Scott Hill

● **Science (E3)**
J.D. Reeves

Counsel (B2)
Andrea Warmbier

● **Information (B7)**
Kevin Boswell

● **Research (D3)**
Jill Prince

Sys. Analysis & Concepts (E4)
Chuck Leonard

Equal Opportunity (B3)
Paul Sullivan (HQ)

Communications (B8)
Moshay Simpson

● **Center Ops. (D4)**
Christie Swarts

● **Space Tech. & Exp. (E5)**
Kevin Rivers

● **Human Resources (B4)**
Myisha Tucker

OSTEM (B9)
Kevin Mcghaw (MSFC)

● **Safety & Mission Assurance (C2)**
Stan Smeltzer

Strategic Partnerships (H1)
Joe Gasbarre

- Acting Executives
- Executive position being performed by GS-15

Center Org Chart (August 2026)

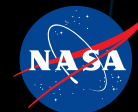


● Acting

Accomplishments (Since March)



Artemis Update



X-59 Reaches Supersonic

National Aeronautics and
Space Administration



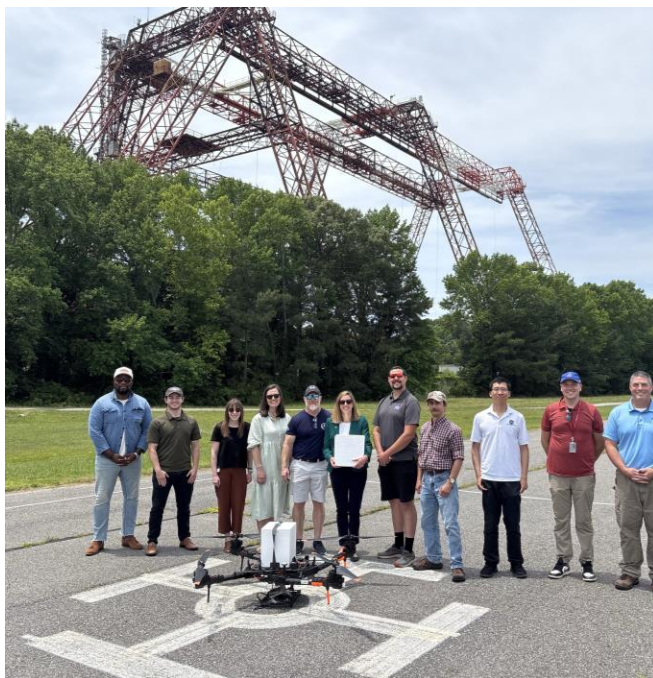
NASA's X-59 eXternal Vision System shows Mach 1.077 on Friday, June 5, 2026, marking the aircraft's first time reaching supersonic speed in support of NASA's Quesst mission.

The moment represents a milestone for the aircraft as it transitions to include test flights faster than the speed of sound.

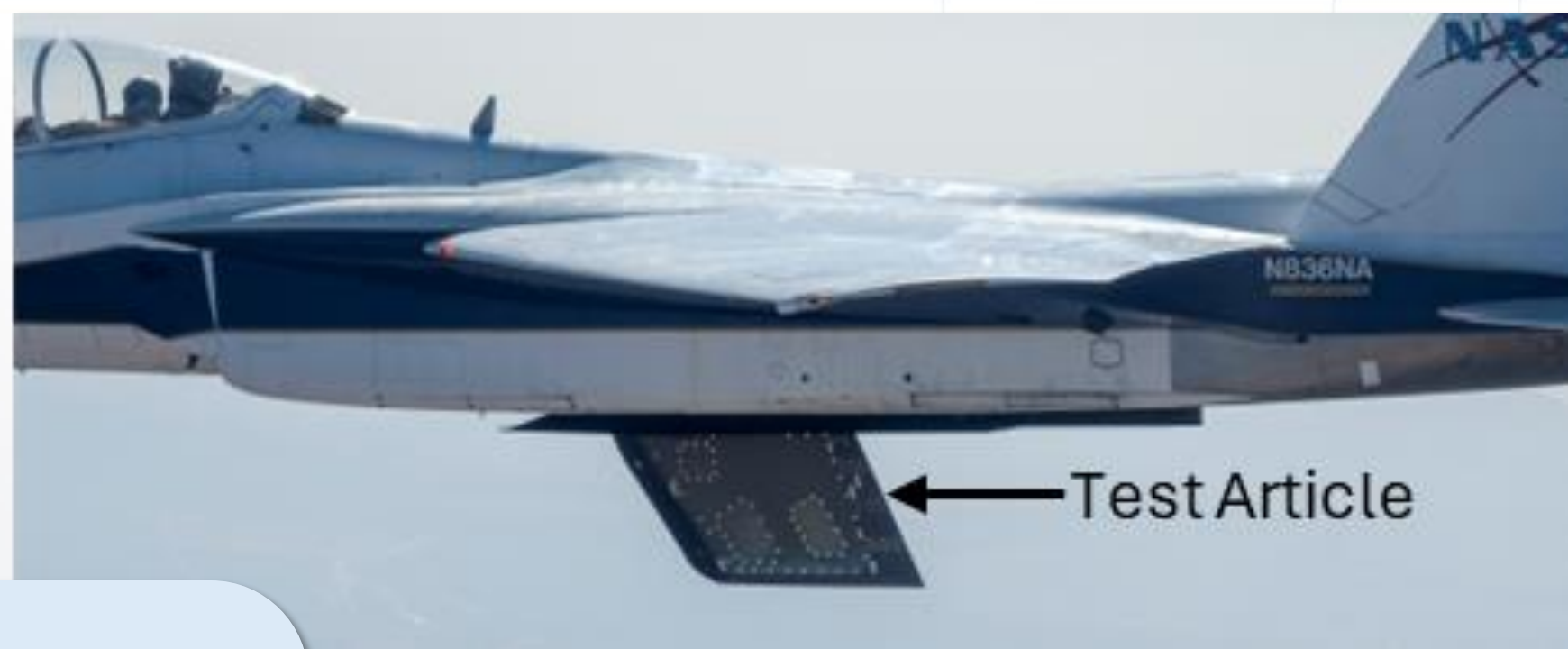


NetLife and the United Network for Organ Sharing (UNOS) on the CERTAIN Range

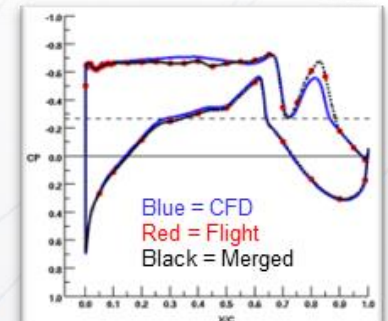
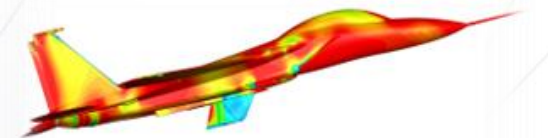
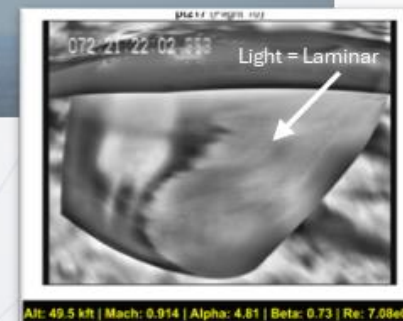
Using drones to fly organs
short distances,
potentially up to 15 miles,
between airports and
hospitals.



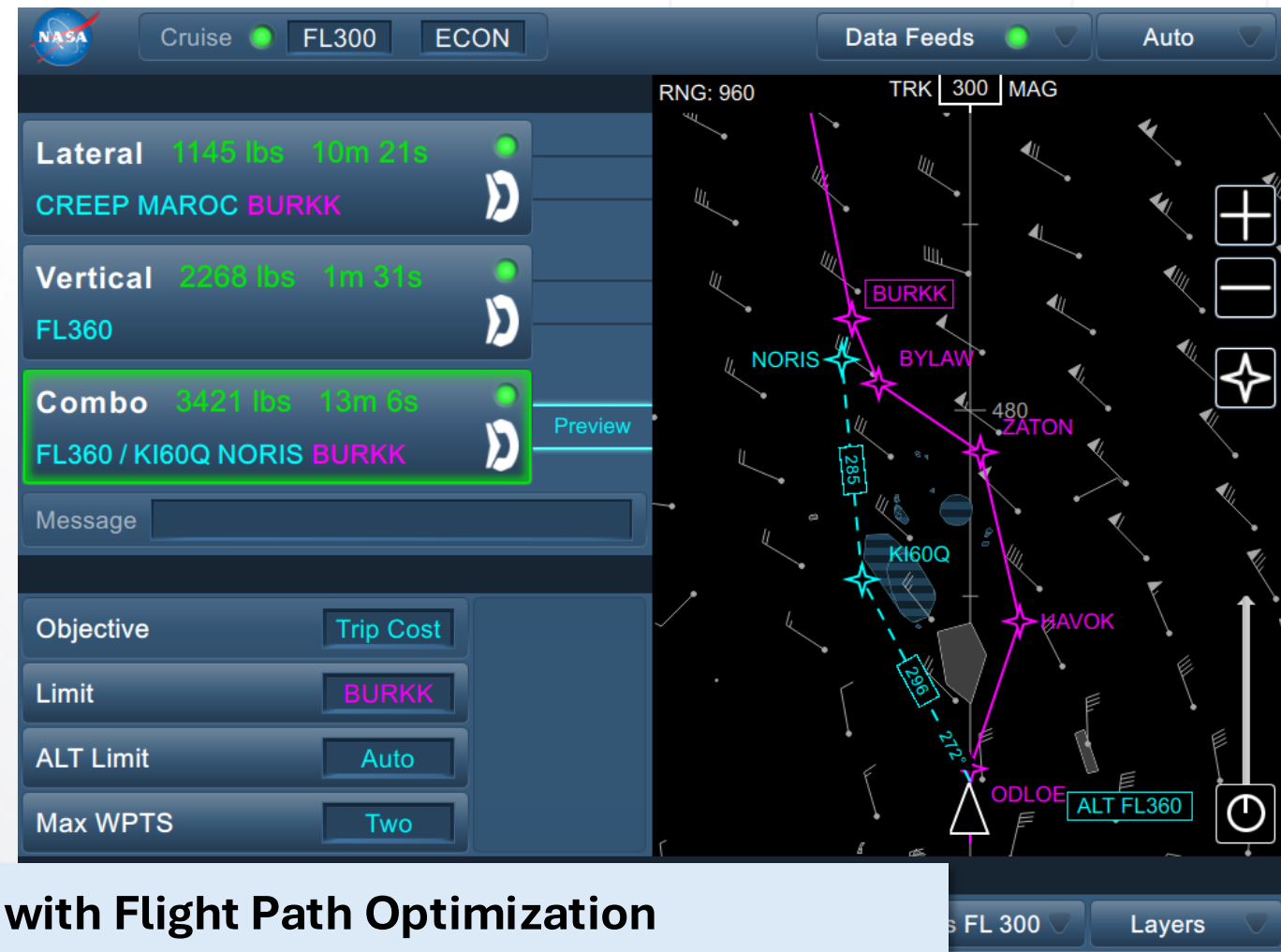
Crossflow Attenuated Natural Laminar Flow (CATNLF)



With CATNLF technology, each aircraft could realize an estimated 5–10% improvement in efficiency and fuel burn performance.



Traffic Aware Strategic Aircrew Requests (TASAR)



DELTA

Widget Wx+ with Flight Path Optimization

Electronic Flight Bag app used daily by over 9,000 pilots on 550+ B737/A320 aircraft.



APIJET's Digital Winglets 4D™

Web-based app allows dispatchers to optimize 100+ aircraft fleet

CLARREO Pathfinder on the International Space Station

National Aeronautics and
Space Administration



Launch
15 May



Installation
22 May



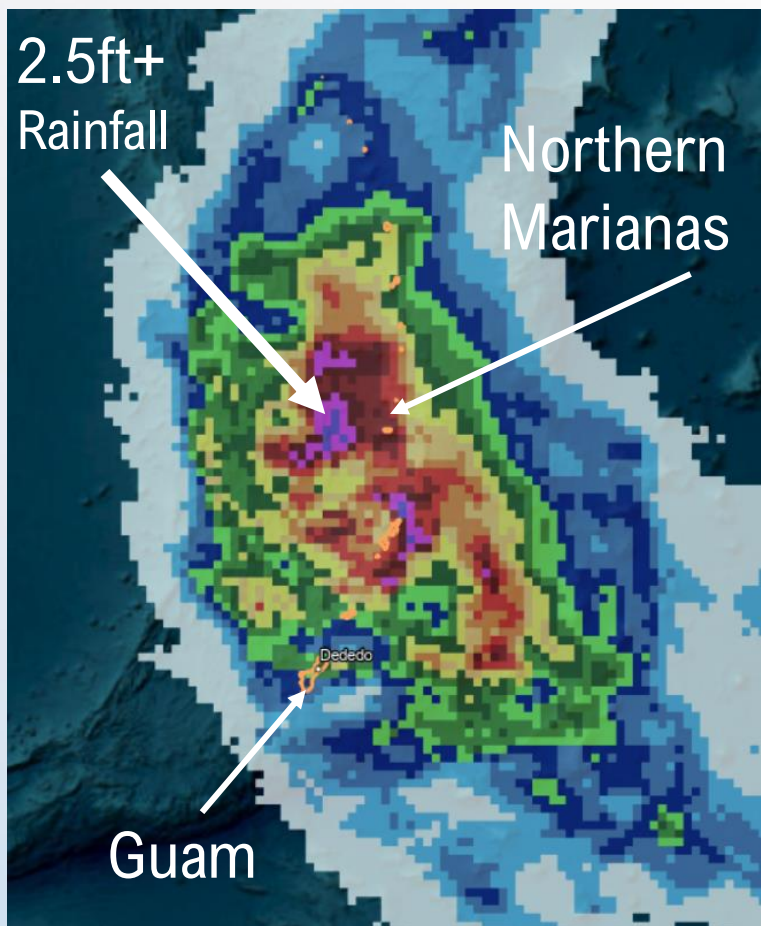
Commissioning Start
23 May



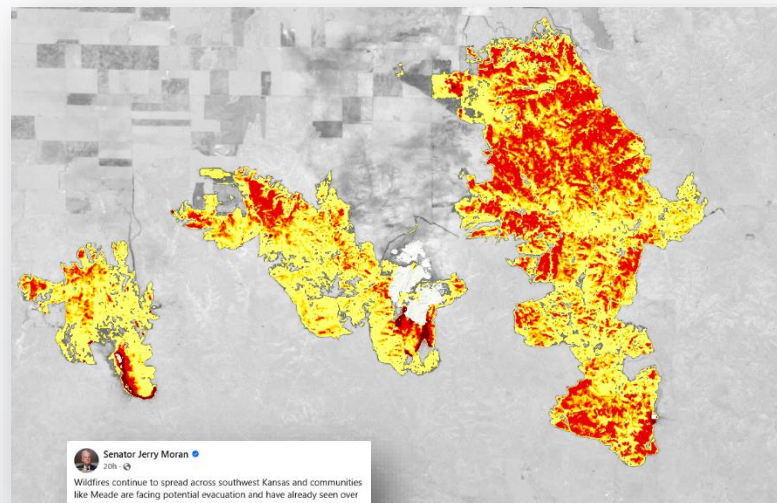
7 DRCS Activations in 2026

Disasters Response Coordination System (DRCS)

National Aeronautics and
Space Administration



GPM provides Typhoon Sinlaku's sole rainfall estimate (April)



Sentinel-2
burn severity
maps for
Kansas fires
& Sen. Moran
EO highlights
in social
media
(May)

High-res SkySat
imagery through
NASA's CSDA
helps NPS
response efforts
on Santa Rosa
Island (June)



HLS Plume-Surface Interaction Ground Testing

National Aeronautics and
Space Administration



How it started...



How it's going...



*SCALPSS view downsampled spatially and temporally

HLS lunar landing environments testing is underway at Langley!

Flight Dynamics Research Facility

National Aeronautics and
Space Administration





Langley Summer Games





Administrator Flight Experience Award

Kyle Hines – Cost Analyst

Benjamin Simmons- Research Aerospace Engineer

Tanish Baines - Financial Operations & Services Office

Kyle Thompson – Aerothermodynamics

Michael Acheson – Vehicle Dynamics and Control Branch

Rober Quinn – Office of Chief Information Officer

Lindsay Rogers – Principal Deputy of CFO



Interns!



In June, we welcomed over 250 interns – mostly OSTEM students who worked across various disciplines at the center.



In late August, we welcomed 59 interns for the Fall session, coming to us from 46 unique institutions, working in 9 different orgs across the center.

Upcoming Events



Upcoming Events



September:

- Sept 22: Industry Day
- Sept 18-20: Naval Air Station Oceana Airshow at NAS Oceana in Virginia Beach

October:

- Oct 8: B777 Employee Viewing Opportunity

And beyond:

- Nov 19: Thanksgiving lunch in Cafeteria
- Dec 1: Director's Holiday Social



Contact Info Slide

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Our Promise to Deliver



Aeronautics

- Complete the Hi-Rate Composite Aircraft Manufacturing (HiCAM) Project Phase 2 Material Characterization Testing.
- Complete the Crossflow Attenuated Natural Laminar Flow (CATNLF) Flight Test at Armstrong Flight Research Center.



Exploration

- Complete the first set of Exploration Extravehicular Activity Services (xEVAS) Axiom Flight Test Article backplates.
- Complete the Vulcan Engine Recovery Aeroshell (VERA) High-Capacity Strap Indentation Torus Test.



Science

- Complete the Dragonfly Parachute Decelerator System Manufacturing Readiness Review.
- Complete the North American Upstream Feature-Resolving and Tropopause Uncertainty Reconnaissance Experiment (NURTURE) utilizing Langley's GIII.



Exploring the secrets of the universe
for the benefit of all.