



National Aeronautics and
Space Administration

FY 2024 Enacted Budget and FY 2025 Budget Request

The background features a vibrant space scene. On the left, a bright yellow sun is partially visible, casting a glow over a blue and white Earth. Above the Earth, a grey, cratered moon is shown. Further up, a reddish-brown planet (Mars) and a yellow planet with a ring system (Saturn) are visible against a backdrop of a blue and green nebula and a starry sky. A large, semi-transparent blue circle is overlaid on the right side of the image, containing the text.

FY 2024 Enacted Appropriations

FY 2024 NASA Appropriations Conference Outcome

	FY 2023 Enacted	FY 2024 Request	FY 2024 HAC CJS RCP	FY 2024 SAC CJS Mark	FY 2024 Enacted	Delta from FY 2023 Enacted
NASA TOTAL	25,383.7	27,185.0	25,366.5	25,000.0	24,875.0	-508.7
Science	7,795.0	8,260.8	7,380.0	7,340.9	7,334.2	-460.8
Earth Science	2,195.0	2,472.8	2,000.0	2,218.7	2,195.0	0.0
Planetary	3,200.0	3,383.2	3,100.0	2,683.3	2,716.7	-483.3
NEOS		209.7			209.7	
Dragonfly		327.7			360.0	
MSR	822.3	949.3	949.3	300.0	300.0	-522.3
Astrophysics	1,510.0	1,557.4	1,485.5	1,544.0	1,530.0	20.0
Heliophysics	805.0	750.9	710.0	805.0	805.0	0.0
Biological and Physical Science	85.0	96.5	85.0	90.0	87.5	2.5
Aeronautics	935.0	995.8	945.8	935.0	935.0	0.0
Space Technology	1,200.0	1,391.6	1,205.0	1,118.0	1,100.0	-100.0
OSAM-1	227.0		227.0	227.0	227.0	0.0
NTP	110.0		110.0	110.0	110.0	0.0
Exploration	7,468.9	7,971.1	7,971.1	7,736.3	7,666.2	197.3
Common Exploration Systems Development	4,737.9	4,525.4				
Orion	1,338.7	1,225.0	1,225.0	1,225.0	1,338.7	0.0
SLS	2,600.0	2,506.1	2,506.1	2,506.1	2,600.0	0.0
B1B/Enhanced Upper Stage	600.00	462.2	600.0	600.0	600.0	0.0
EGS	799.2	794.2	794.2	794.0		
ML-2	330.6	273.2	273.2	273.2		
Artemis Campaign Development	2,600.3	3,234.8	3,234.9			
HLS	1,485.6	1,880.5			1,880.5	394.9
xEVA/Human Surface Mobility Program		379.9			379.9	
Space Operations	4,250.0	4,534.6	4,344.6	4,200.0	4,220.0	-30.0
USDV	10.0	180.0				
STEM Engagement	143.5	157.8	89.0	143.5	143.0	-0.5
EPSCOR	26.0	26.0	29.0	26.0	26.0	0.0
Space Grant	58.0	57.0	60.0	58.0	58.0	0.0
Safety, Security and Mission Services	3,129.5	3,369.4	3,135.5	3,100.0	3,129.0	-0.5
Earmarks	30.7		36.3	21.0	56.7	
Construction & Env Compliance & Restoration	414.3	453.7	247.9	379.0	300.0	-114.3
Office of the Inspector General	47.6	20.2	47.6	47.6	47.6	0.0

NOTE: Of the amounts in FY24 Conference for Exploration, \$450M is designated for an emergency requirement. Of the amounts in FY24 Conference for CECR, \$250.0M is designated for an emergency requirement.

FY 2024 Appropriations Conference

NASA Highlights

Science: \$461M below FY 2023 enacted

- Earth Science: equal to FY 2023 enacted
- Planetary: \$483M below FY 2023 enacted (MSR: not less than \$300M; Dragonfly, \$360M; NEOS, \$210M)
- Astrophysics: \$20M above FY 2023 enacted
- Heliophysics: equal to FY 2023 enacted

Aeronautics: \$935M, equal to FY 2023 enacted

Space Technology: \$1.1B, \$100M below FY 2023 enacted

- OSAM-1: equal to FY 2023 enacted, overriding NASA proposal to discontinue
- NTP: equal to FY 2023 enacted; cooperation with DARPA on DRACO supported
- NEP: supports commencement of technology development

Exploration: \$7.7B, \$197M above FY 2023 enacted, \$305M below request

- Orion: up to FY 2023 enacted (\$1.3B)
- SLS: up to FY 2023 enacted (\$2.6B)
- HLS: up to FY 2024 request level (\$1.9B)
- xEVA: up to FY 2024 request level (\$380M)

FY 2024 Appropriations Conference (cont.)

NASA Highlights

Space Operations: \$30M below FY 2023 enacted, and \$315M below request

STEM Engagement: \$0.5M below FY 2023 enacted, and \$15M below request

Safety, Security and Mission Services (SSMS): \$0.5M below FY 2023 enacted, and \$240M below request; Earmarks within this account total \$56.7M

Construction and Environmental Compliance and Restoration (CECR): \$114.3M below FY 2023 enacted, and \$240M below request

Significant Provisions:

- Extended availability of \$436M in prior-year appropriations for liquidation of valid obligations for Commercial Crew
- Removal of appropriations funding “call-outs” in Exploration and Space Technology accounts
- General transfer authority increased

A space-themed background featuring a curved view of the Earth at the bottom left, a bright sun, and various celestial bodies including the Moon, Mars, and Saturn against a starry blue and green sky.

FY 2025 President's Budget Request

NASA's FY 2024 Enacted and FY 2025 Budget Request



Budget Authority (\$M)	FY 2023 Operating Plan ^{1/}	FY 2024 Enacted	FY 2025 Request				
			FY 2025 Request	FY 2026	FY 2027	FY 2028	FY 2029
Deep Space Exploration Systems	7,447.6	7,666.2	7,618.2	7,803.7	7,959.8	8,119.0	8,281.4
Moon to Mars Transportation System	4,716.6		4,213.0	4,254.0	4,267.3	3,880.9	3,713.6
Moon To Mars Lunar Systems Development	2,630.5		3,288.1	3,285.7	3,389.5	3,868.8	3,712.3
Human Exploration Requirements & Architecture	100.5		117.1	264.1	303.0	369.3	855.5
Space Operations	4,266.7	4,220.0	4,389.7	4,497.6	4,587.6	4,679.4	4,773.0
International Space Station	1,286.2		1,269.6	1,267.8	1,262.8	1,259.4	1,259.4
Space Transportation	1,759.6		1,862.1	1,876.2	1,840.9	1,895.7	1,804.1
Space and Flight Support	983.4		1,088.4	1,051.3	1,048.7	1,059.0	1,080.2
Commercial LEO Development	224.3		169.6	302.3	435.2	465.2	629.3
Exploration Operations	13.2		0.0	0.0	0.0	0.0	0.0
Space Technology	1,193.0	1,100.0	1,181.8	1,205.4	1,229.5	1,254.1	1,279.2
Science	7,791.5	7,334.2	7,565.7	7,717.0	7,871.3	8,028.7	8,189.3
Earth Science	2,175.0	2,195.0	2,378.7	2,396.3	2,446.1	2,489.7	2,543.4
Planetary Science	3,216.5	2,716.7	2,731.5	2,850.5	2,911.6	2,976.8	3,042.5
Astrophysics	1,510.0	1,530.0	1,578.1	1,587.0	1,613.6	1,647.1	1,673.4
Heliophysics	805.0	805.0	786.7	791.9	807.0	820.3	833.4
Biological and Physical Sciences	85.0	87.5	90.8	91.3	93.0	94.8	96.6
Aeronautics	935.0	935.0	965.8	985.1	1,004.8	1,024.9	1,045.4
STEM Engagement	143.5	143.0	143.5	146.4	149.3	152.3	155.3
Safety, Security, and Mission Services	3,136.5	3,129.0	3,044.4	3,105.3	3,167.4	3,230.7	3,295.3
Mission Services & Capabilities	2,067.4		2,058.1	2,099.2	2,141.3	2,184.1	2,227.6
Engineering, Safety, & Operations	1,069.1		986.3	1,006.1	1,026.1	1,046.6	1,067.7
Construction and Environmental Compliance & Restoration	422.4	300.0	424.1	379.3	386.9	394.6	402.5
Construction of Facilities	346.2		344.7	298.3	304.3	310.4	316.6
Environmental Compliance and Restoration	76.2		79.4	81.0	82.6	84.2	85.9
Inspector General	47.6	47.6	50.5	51.5	52.5	53.6	54.7
NASA Total	25,383.7	24,875.0	25,383.7	25,891.3	26,409.1	26,937.3	27,476.1

1/ - FY 2023 reflects amounts in Public Law 117-328, Consolidated Appropriations Act, 2023, adjusted by NASA's September 2023 Operating Plan, plus \$8M for IT Modernization Working Capital Fund.

Advancing U.S. Leadership in Exploration and Discovery

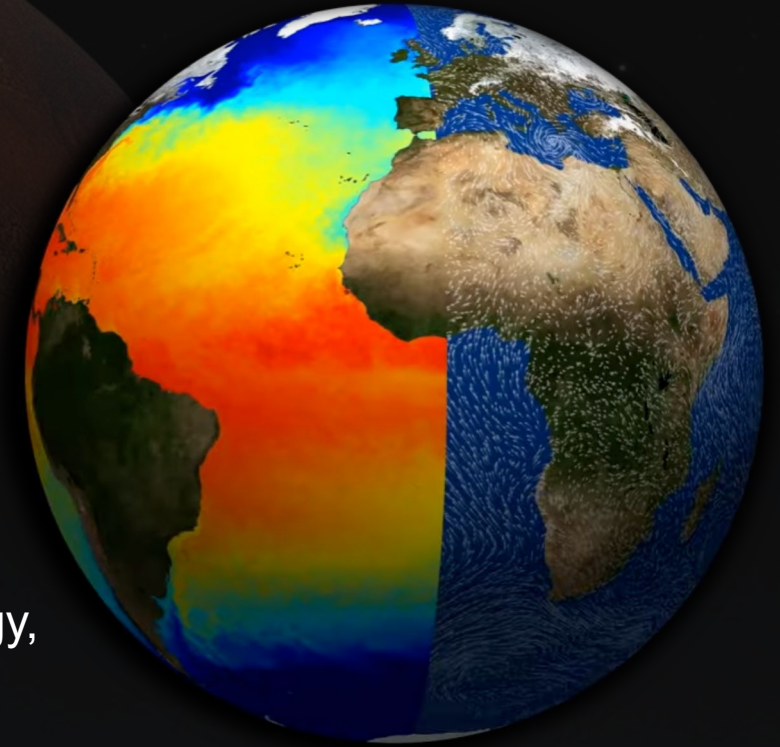
- The President's budget request for NASA is an investment in our nation's future; it promotes U.S. leadership in space exploration, improves our understanding of Earth and the universe, inspires the Artemis Generation, and develops new aviation and space technologies for the benefit of humanity
- Leads the world back to the Moon through the Artemis program, with the broadest space exploration coalition in history
- Advances science and research in low-Earth orbit on the International Space Station while partnering with U.S. industry to develop commercial destinations to further American presence in low Earth Orbit after the ISS is retired in 2030
- Invests in the civil space technology base by developing, demonstrating, and transferring revolutionary technologies that expand the commercial space economy and transform NASA missions



Advancing U.S. Leadership in Exploration and Discovery



- Drives scientific discovery through a balanced portfolio of space-based observatories performing fundamental research, exploring other bodies in the solar system, and gazing into the galaxy and beyond
- Strengthens NASA's global leadership in Earth science to enhance our understanding of the Earth system, response to natural hazards, and management of our natural resources
- Bolsters competitiveness of the U.S. aviation sector, with technologies that will transform commercial air travel, including a more efficient and greener future for aviation
- Engages students from diverse communities to pursue science, technology, engineering, and mathematics
- Invests in workforce, information technology, and infrastructure to enable mission success, and maintains a strong commitment to advancing diversity, equity, inclusion, and accessibility



A large red planet (Mars) and a smaller grey planet (Moon) are shown in space. The word "Backup" is overlaid in white text. The background is a dark starry sky, and the foreground shows a curved horizon of a reddish-brown surface.

Backup

FY 2025 President's Budget Request Moon to Mars Manifest



FY	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	
Exploration Systems Development Mission Directorate			Artemis II (Sep. 2025) Crewed Flight SLS Block 1/ Orion/ML1	Artemis III (Sep. 2026) Crewed Flight SLS Block 1/ Orion/ML1 HLS Crewed Lunar Demo xEVA Surface Suits HLS Uncrewed Lunar Demo Gateway PPE/HALO Launch		Gateway PPE/HALO Arrival in NRHO	Artemis IV (Sep. 2028) Crewed Flight SLS Block 1B/ Orion/ML2 I-Hab to Gateway Gateway Logistics Services Sustaining HLS Crewed Lunar Demo xEVA Surface Suits Sustaining HLS Uncrewed Lunar Demo		Artemis V (Mar. 2030) Crewed Flight SLS Block 1B/ Orion/ML2 ESPRIT to Gateway Sustaining HLS Uncrewed Lunar Demo xEVA Surface Suits LTV	Artemis VI (Mar. 2031) Crewed Flight SLS Block 1B/ Orion/ML2 Airlock to Gateway Gateway Logistics Services Gateway External Robotics System TBD Sustaining HLS Services xEVA Surface Suits	Artemis VII (Mar. 2032) Crewed Flight SLS Block 1B/ Orion/ML2 Gateway operations TBD Sustaining HLS Services xEVA Surface Suits Pressurized Rover
Space Operations Mission Directorate	DSN Upgrades (DLEU) Completed DSS-36 [Canberra]	Completed DSS-24 [Goldstone]	DSS-34 [Canberra] DSS-56 [Madrid]			Lunar Communications Relay and Navigation Services (LCRNS)—Increment Increment Alpha	Ongoing Science, Human Research Program, and Technology Development in LEO (ISS transition to CLD) Increment Bravo Increment Charlie				
Science Mission Directorate	LRO Mars 2020: CLPS Flights Outlined	ESCAPADE Attempted TO 2-AB Completed TO 2-IM	TO 20A: VIPER HERMES ready for integration ESA Lunar Pathfinder delivered for launch AVATAR (Artemis II) TO PRIME-1 Lunar Trailblazer	Artemis III Surface Science Instruments MMX (MEGANE/P-Sampler)	LRO continued ops TO CS-06	Artemis IV Surface Science Instruments TO CS-06 TO CP-31	Rosalind Franklin Mission (RFM) Launch, Landing TO CP-41 TO CP-42 TO CP-51 TO CP-52	Artemis V Surface Science Instruments Artemis LTV Science Instruments	Artemis VI Surface Science Instruments	Artemis VII Surface Science Instruments	
Space Technology Mission Directorate	MOXIE; MEDA DSOC	CFM SpaceX TP Flight Demo	Surface Robotic Scouts (CADRE) TO PRIME-1: Drill; Nokia LTE/4G Comm; IM Deployable Hopper CFM ULA TP Flight Demo PPE SEP qual. environ. complete CFM Eta Space TP Flight Demo	CFM Lockheed Martin TP Flight Demo NEP Concept Design	DRACO Demonstration	TO LIFT-1: Lunar Surface Power Demo (i.e., RFC, VSAT, Wireless Charging); Lunar Surface Scaled Construction Demo 1; ISRU Pilot Excavator; ISRU Subscale Demo	SEP qual. complete			Fission Surface Power demo delivered for launch TO LIFT-2: Lunar Surface Scaled Construction Demo 2; Autonomous Robotics Demo; Deployable Hopper 2; ISRU Subscale Demo 2	

Icons are representative only, and may not reflect final configurations, not to scale | Icons represent the fiscal year in which an event occurs | Based on FY 2025 President's budget request

Moon to Mars Objectives

Elements included in FY 2025 - 2029 Budget Request



SCIENCE

- Commercial Lunar Payload Services (CLPS)
- Volatiles Investigating Polar Exploration Rover (VIPER)
- Lunar Trailblazer
- Artemis Crew Surface Instruments



LUNAR AND MARS INFRASTRUCTURE

- In Situ Resource Utilization (ISRU)
- Fission Surface Power
- Lunar Infrastructure Foundational Technologies (LIFT-1 and LIFT-2)

Cryogenic Fluid Management



TRANSPORTATION AND HABITATION

- Orion
- Space Launch System (SLS)
- Exploration Ground System (EGS)
- Gateway
- Spacesuits

Lunar Terrain Vehicle (LTV)

Pressurized Rover



OPERATIONS

- Space Communication and Navigation (SCaN)
- Deep Space Network
- Lunar Exploration Ground Segment (LEGS)
- Lunar Communication Navigation and Relay Service (LCNRS)
- Human Research Program (HRP)
- Flight Operations

There are 10 total M2M Objectives
Projects may support multiple objective areas

Low-Earth Orbit Transition: ISS to Commercial Destinations

FY 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032

International Space Station (ISS) Operations

U.S. Deorbit Vehicle Development

Delivery

Deorbit

Commercial LEO Destinations (CLDs) Development

CLD Operations

Phase 1: Early Design Maturation

Phase 2: Certification & Services

Continue valuable science and research on ISS through end of life

Develop U.S. Deorbit Vehicle to safely deorbit ISS at end of useful life

Balancing 3 Priorities

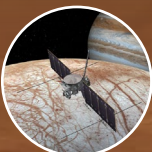
Partner with U.S. commercial space industry to develop and deploy commercial destinations to ensure American access to LEO





Investing in Scientific Discovery

Supports over **125** space science missions, including **54** that are currently preparing for launch and over **70** in operation; also funds U.S. scientists in universities, industry, and government labs through more than **4,000** openly competed research awards



Planetary

Explores new destinations in the solar system with exciting missions such as Europa Clipper, Dragonfly, and Rosalind Franklin Mars rover



Science

Earth

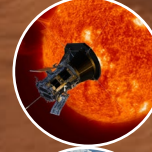
Enhances understanding of Earth by supplementing Earth observing missions with new missions such as Landsat NEXT and GRACE-Continuity



Science

Astrophysics

Continues to revolutionize understanding of the origins and evolution of galaxies with the development of the Nancy Grace Roman Space Telescope



Heliophysics

Studies the Sun and its influence throughout the solar system with multiple missions, including PUNCH, SunRISE, and IMAP that launch in 2025



Biological &

Physical Science

Advances our understanding of how biological and physical systems work from the unique vantage point of space

Commitment to the Earth and Sustainability

Invests over \$3.2 billion to observe, understand, and protect our home planet

- \$2.4 billion investment in Earth science and observations that enhance our understanding of the Earth system and make Earth science data available and actionable
- \$32 million for Advanced Capabilities for Emergency Response Operations and Wildland Fires
- \$522 million to reduce aviation's climate impact, including a Sustainable Flight National Partnership that will reduce fuel burn by as much as 30 percent
- \$252 million for OSIRIS-APEX, and NEO Surveyor which launches in 2028 to detect, track, and characterize asteroids and comets that could impact Earth
- \$41 million to better understand and mitigate the hazard of orbital debris

