

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION FY 2020 SPENDING PLAN FOR APPROPRIATIONS
PROVIDED BY P.L. 116-93 and P.L. 116-136
May 2020
 (Budget Authority, \$ in millions)

	FY 2020 NASA Spending Plan
NASA	22,689.0
SCIENCE	7,138.9
Earth Science	1,971.8
<u>Earth Science Research</u>	472.9
Earth Science Research & Analysis.....	321.2
<i>Carbon Monitoring (non-add)</i>	10.0
Computing & Management.....	151.7
<u>Earth Systematic Missions</u>	872.0
NASA/ISRO SAR (NISAR).....	136.0
Surface Water and Ocean Topography.....	82.2
Sentinel-6-Michael Freilich.....	59.5
Landsat 9.....	108.9
Other Missions and Data Analysis.....	485.4
<i>Pre-Aerosol, Clouds, and Ocean Ecosystem (PACE) (non-add)</i>	131.0
<i>Climate Absolute Radiance Refractivity Observatory Pathfinder (non-add)</i>	26.0
<i>Deep Space Observatory (non-add)</i>	1.7
<u>Earth Science Pathfinder</u>	285.5
Venture Class Missions.....	209.4
<i>GeoCarb (non-add)</i>	49.4
Other Missions and Data Analysis.....	76.1
<i>Small Satellite Constellation Initiative (non-add)</i>	25.0
<u>Earth Science Multi-Mission Operations</u>	218.5
<u>Earth Science Technology</u>	69.6
<u>Applied Sciences: Pathways</u>	53.3
Planetary Science	2,713.4
<u>Planetary Science Research</u>	281.7
Planetary Science Research & Analysis.....	208.7

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Other Missions & Data Analysis.....	73.0
<u>Planetary Defense</u>	<u>150.0</u>
DART.....	72.4
Planetary Defense OM&DA.....	77.6
<i>Near Earth Object Surveillance (NEOSM) (non-add)</i>	35.6
<u>Lunar Discovery and Exploration</u>	<u>300.0</u>
<i>Lunar Reconnaissance Orbiter (LRO) (non-add)</i>	22.0
<i>Commercial Lunar Payload Service (CLPS) (non-add)</i>	184.6
<u>Discovery</u>	<u>506.3</u>
Lucy.....	208.6
Psyche.....	216.0
Other Missions & Data Analysis.....	81.7
<u>New Frontiers</u>	<u>142.8</u>
<u>Mars Exploration</u>	<u>565.7</u>
Mars Rover 2020.....	318.7
Other Missions & Data Analysis.....	247.0
<u>Outer Planets</u>	<u>628.5</u>
Europa Clipper.....	592.6
Other Missions & Data Analysis.....	35.9
<i>Icy Satellites Surface Technology (non-add)</i>	14.2
<u>Radioisotope Power</u>	<u>138.5</u>
Astrophysics	1,306.2
<u>Astrophysics Research</u>	<u>231.2</u>
Astrophysics Research & Analysis.....	86.6
Balloon Project.....	44.8
Science Activation.....	45.6
Other Missions & Data Analysis.....	54.3
<u>Cosmic Origins</u>	<u>202.7</u>

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Hubble Space Telescope.....	90.8
Stratospheric Observatory for Infrared Astronomy.....	85.2
Other Missions & Data Analysis.....	26.7
<i>Search for Life Tech Development (non-add)</i>	10.0
<u>Physics of the Cosmos: Other Missions & Data Analysis</u>	<u>132.8</u>
<u>Exoplanet Exploration</u>	<u>554.2</u>
<i>WFIRST, including Coronagraph (non-add)</i>	510.7
<u>Astrophysics Explorer</u>	<u>185.3</u>
James Webb Space Telescope	423.0
Heliophysics	724.5
<u>Heliophysics Research</u>	<u>251.7</u>
Heliophysics Research & Analysis.....	66.6
Sounding Rockets.....	69.7
Research Range.....	31.0
Other Missions & Data Analysis.....	84.4
<u>Living With a Star</u>	<u>126.8</u>
Solar Orbiter Collaboration.....	12.8
Other Missions & Data Analysis.....	114.0
<i>Space Weather Science Applications (non-add)</i>	20.0
<u>Solar Terrestrial Probes</u>	<u>141.1</u>
<i>Magnetospheric MultiScale (non-add)</i>	26.0
<u>Heliophysics Explorer</u>	<u>204.8</u>
ICON.....	8.7
Other Missions & Data Analysis.....	196.1
AERONAUTICS	783.9
Aeronautics	783.9
<u>Airspace Operations and Safety Program</u>	<u>124.5</u>

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<u>Advanced Air Vehicles Program</u>	188.1
<i>Hypersonics Technology Project (non-add)</i>	35.0
<u>Integrated Aviation Systems Program</u>	233.2
<u>Transformative Aero Concepts Program</u>	121.1
<u>Aerosciences Evaluation and Test Capabilities (AETC)</u>	117.0
SPACE TECHNOLOGY	1,100.0
<u>Space Technology</u>	1,100.0
<u>Early Stage Innovation and Partnerships</u>	119.8
Agency Technology and Innovation.....	9.4
Early Stage Innovation.....	80.6
Partnerships and Technology Transfers.....	29.9
<i>Regional Economic Development (non-add)</i>	6.0
<u>Technology Maturation</u>	179.2
<i>Innovative Nano Materials (non-add)</i>	5.0
<i>Additive Manufacturing (non-add)</i>	35.0
<u>Technology Demonstration</u>	575.5
Laser Communication Relay Demonstration.....	28.5
RESTORE/Space Infrastructure Dexterous Robot.....	227.2
<i>RESTORE-L (non-add)</i>	169.1
Solar Electric Propulsion (SEP).....	67.0
Small Spacecraft, Flight Opportunities & Other Tech Demonstration.....	252.9
<i>Flight Opportunities (non-add)</i>	25.0
<i>Nuclear Propulsion (non-add)</i>	110.0
<i>NTP Flight Demonstration System (non-add)</i>	80.0
<u>SBIR & STTR</u>	225.5
EXPLORATION	5,959.8
<u>Human Exploration Capabilities</u>	4,512.8
<u>Orion Multi-Purpose Crew Vehicle: Crew Vehicle Dev.</u>	1,406.7
<u>Space Launch System</u>	2,528.1

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SLS Program Integration.....	60.1
Launch Vehicle Development.....	2,468.0
<i>Enhanced Upper Stage (EUS) development (non-add)</i>	300.0
<u>Exploration Ground Systems</u>	578.0
<i>Exploration Ground System Development</i>	558.7
<i>EGS Program Integration and Support</i>	19.3
<u>Exploration Research & Development</u>	1,447.0
<u>Advanced Exploration Systems</u>	208.9
<u>Gateway</u>	421.0
<u>Adv Cislunar and Surface Capabilities (as requested and enacted)</u>	692.1
<u>Adv Cislunar and Surface Capabilities (as executed)</u>	38.0
<u>Human Landing System (as executed)</u>	654.1
<u>Human Research Program</u>	125.0
<i>Advanced Technologies to Support Air Revitalization Initiative</i>	
SPACE OPERATIONS	4,142.3
<u>International Space Station</u>	1,521.1
<u>International Space Station Program</u>	1,521.1
ISS Systems Operations & Maintenance.....	1,056.0
ISS Research.....	465.1
<u>Space Transportation</u>	1,746.2
<u>Crew and Cargo Program</u>	1,511.3
<u>Commercial Crew Program</u>	234.9
<u>Space & Flight Support</u>	859.9
<u>21st Century Space Launch Complex</u>	15.0
<u>Space Communications & Navigation</u>	600.1
Space Communications Networks.....	486.2
Space Communications Support.....	113.9

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<u>Human Space Flight Operations</u>	101.0
<u>Launch Services</u>	94.4
<u>Rocket Propulsion Test</u>	46.7
<u>Communications Services Program</u>	2.7
Commercial LEO Development	15.0
STEM Engagement	120.0
STEM Engagement	120.0
<u>STEM Engagement Program</u>	120.0
NASA Space Grant.....	48.0
EPSCoR.....	24.0
Minority University Research Education Program.....	36.0
STEM Education & Accountability Projects.....	12.0
CP3 Competitive Program (non-add).....	5.0
SAFETY, SECURITY AND MISSION SERVICES	2,973.3
Center Management & Operations	2,007.4
<u>Center Institutional Capabilities</u>	1,572.4
<u>Center Programmatic Capabilities</u>	435.0
Agency Management & Operations	965.9
<u>Agency Management</u>	402.7
<u>Safety & Mission Success</u>	184.0
Safety & Mission Assurance.....	50.0
Chief Engineer.....	86.5
Chief Health & Medical Officer.....	8.4
Independent Verification & Validation.....	39.1
<u>Agency IT Services</u>	277.7

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IT Management.....	18.3
Enterprise IT.....	259.4
<u>Strategic Capabilities Assets Program</u>	41.5
<i>Aerosciences Evaluation and Test Capabilities (AETC) program.....</i>	
<u>COVID 19 Response</u>	
<i>P.L.116-136 Division B.....</i>	60.0
CONSTRUCTION & ENVIRONMENTAL COMPLIANCE & REST.	429.1
Construction of Facilities (CoF)	354.4
<u>Aeronautics CoF</u>	-
<u>Exploration CoF</u>	109.9
<u>Space Operations CoF</u>	17.4
<u>Science CoF</u>	15.3
<u>Institutional CoF</u>	211.8
<u>Specified Institutional Discrete Projects (non-add)</u>	
Environmental Compliance & Restoration	74.7
OFFICE OF INSPECTOR GENERAL	41.7