

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

| | FY 2020 NASA Spending Plan |
|--|-------------------------------|
| NASA | 22,689.0 |
| SCIENCE | 7,143.1 |
| 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> | 858.9 |
| NASA/ISRO SAR (NISAR)..... | 180.6 |
| Surface Water and Ocean Topography..... | 98.2 |
| Sentinel-6-Michael Freilich..... | 13.4 |
| Landsat 9..... | 58.9 |
| Other Missions and Data Analysis..... | 507.8 |
| <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> | 298.6 |
| Venture Class Missions..... | 222.5 |
| <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 | 2,712.6 |
| <u>Planetary Science Research</u> | 286.0 |
| Planetary Science Research & Analysis..... | 209.8 |

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| Other Missions & Data Analysis..... | 76.2 |
| <u>Planetary Defense</u> | 150.0 |
| 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> | 300.0 |
| <i>Lunar Reconnaissance Orbiter (LRO) (non-add)</i> | 22.0 |
| <i>Commercial Lunar Payload Service (CLPS) (non-add)</i> | 184.6 |
| <u>Discovery</u> | 508.7 |
| Lucy..... | 208.6 |
| Psyche..... | 214.0 |
| Other Missions & Data Analysis..... | 86.1 |
| <u>New Frontiers</u> | 136.8 |
| <u>Mars Exploration</u> | 565.7 |
| Mars Rover 2020..... | 353.0 |
| Other Missions & Data Analysis..... | 212.7 |
| <u>Outer Planets</u> | 632.0 |
| Europa Clipper..... | 592.6 |
| Other Missions & Data Analysis..... | 39.4 |
| <i>Icy Satellites Surface Technology (non-add)</i> | 14.2 |
| <u>Radioisotope Power</u> | 133.5 |
| Astrophysics | 1,306.2 |
| <u>Astrophysics Research</u> | 231.2 |
| Astrophysics Research & Analysis..... | 86.6 |
| Balloon Project..... | 44.8 |
| Science Activation..... | 45.6 |
| Other Missions & Data Analysis..... | 54.3 |
| <u>Cosmic Origins</u> | 202.7 |

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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>146.0</u> |
| Solar Orbiter Collaboration..... | 4.2 |
| Other Missions & Data Analysis..... | 141.8 |
| <i>Space Weather Science Applications (non-add)</i> | 31.8 |
| <u>Solar Terrestrial Probes</u> | <u>141.1</u> |
| <i>Magnetospheric MultiScale (non-add)</i> | 26.0 |
| <u>Heliophysics Explorer</u> | <u>185.6</u> |
| ICON..... | 8.7 |
| Other Missions & Data Analysis..... | 176.9 |
| Biological and Physical Sciences | 5.0 |
| AERONAUTICS | 783.9 |

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| Aeronautics | 783.9 |
| <u>Airspace Operations and Safety Program</u> | 124.5 |
| <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 |
| Space Technology | 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 |
| Human Exploration Capabilities | 4,512.8 |
| <u>Orion Multi-Purpose Crew Vehicle: Crew Vehicle₄ Dev.</u> | 1,406.7 |

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| <u>Space Launch System</u> | 2,528.1 |
| 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 | 4,134.7 |
| <u>International Space Station</u> | 1,516.1 |
| <u>International Space Station Program</u> | 1,516.1 |
| ISS Systems Operations & Maintenance..... | 1,056.0 |
| ISS Research..... | 460.1 |
| <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> | 857.4 |
| <u>21st Century Space Launch Complex</u> | 15.0 |
| <u>Space Communications & Navigation</u> | 598.7 |
| Space Communications Networks..... | 484.8 |

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| Space Communications Support..... | 113.9 |
| <u>Human Space Flight Operations</u> | <u>99.9</u> |
| <u>Launch Services</u> | <u>94.4</u> |
| <u>Rocket Propulsion Test</u> | <u>46.7</u> |
| <u>Communications Services Program</u> | <u>2.7</u> |
| Commercial LEO Development | 15.0 |
| STEM Engagement | 120.0 |
| STEM Engagement | 120.0 |
| <u>STEM Engagement Program</u> | <u>120.0</u> |
| 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> | <u>1,572.4</u> |
| <u>Center Programmatic Capabilities</u> | <u>435.0</u> |
| Agency Management & Operations | 965.9 |
| <u>Agency Management</u> | <u>402.7</u> |
| <u>Safety & Mission Success</u> | <u>184.0</u> |
| Safety & Mission Assurance..... | 50.0 |
| Chief Engineer..... | 86.5 |
| Chief Health & Medical Officer..... | 8.4 |
| Independent Verification & Validation..... | 39.1 |

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| <u>Agency IT Services</u> | 277.7 |
| 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. | 432.5 |
| <u>Construction of Facilities (CoF)</u> | 357.8 |
| <u>Aeronautics CoF</u> | - |
| <u>Exploration CoF</u> | 109.9 |
| <u>Space Operations CoF</u> | 20.0 |
| <u>Science CoF</u> | 16.1 |
| <u>Institutional CoF</u> | 211.8 |
| <u><i>Specified Insitutional Discrete Projects (non-add)</i></u> | |
| <u>Environmental Compliance & Restoration</u> | 74.7 |
| OFFICE OF INSPECTOR GENERAL | 41.7 |