

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION FY 2016 SPENDING PLAN FOR  
APPROPRIATIONS PROVIDED BY P.L. 114-113**

**September 2016**

(Budget Authority, \$ in millions)

	FY 2016 NASA Spending Plan
<b>NASA</b>	<b>19,285.0</b>
<b>SCIENCE</b>	<b>5,584.1</b>
<b>Earth Science</b>	<b>1,926.6</b>
<u>Earth Science Research</u>	<u>477.7</u>
Earth Science Research & Analysis.....	347.2
Computing & Management.....	130.5
<u>Earth Systematic Missions</u>	<u>914.6</u>
Ice, Cloud, and Land Elevation Satellite - 2.....	117.4
Soil Moisture Active and Passive.....	5.9
GRACE FO.....	59.9
Surface Water and Ocean Topography.....	114.1
Other Missions and Data Analysis.....	617.3
<i>Pre-Aerosol, Clouds, and Ocean Ecosystem (PACE) (non-add).....</i>	<i>75.0</i>
<i>Landsat 9 (non-add).....</i>	<i>56.0</i>
<u>Earth Science Pathfinder</u>	<u>233.6</u>
Venture Class Missions.....	151.1
Other Missions and Data Analysis.....	82.5
<u>Earth Science Multi-Mission Operations</u>	<u>192.4</u>
<u>Earth Science Technology</u>	<u>60.7</u>
<u>Applied Sciences: Pathways</u>	<u>47.6</u>
<b>Planetary Science</b>	<b>1,628.0</b>
<u>Planetary Science Research</u>	<u>274.0</u>
Planetary Science Research & Analysis.....	163.2
Other Missions & Data Analysis.....	53.2
Directorate Management.....	7.6
Near Earth Object Observations.....	50.0
<u>Discovery</u>	<u>189.0</u>
InSight.....	92.1
Other Missions & Data Analysis.....	96.9

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<i>Discovery Future (non-add).....</i>	19.0
<i>Lunar Reconnaissance Orbiter (non-add).....</i>	19.0
<b><u>New Frontiers</u></b>	<b>194.0</b>
OSIRIS-REx.....	124.7
Other Missions & Data Analysis.....	69.3
<i>New Frontieers Future (non-add).....</i>	2.0
<b><u>Mars Exploration</u></b>	<b>513.0</b>
Mars Rover 2020.....	321.8
Other Missions & Data Analysis.....	191.2
<i>Mars Exploration Rover 2003 (non-add).....</i>	14.2
<b><u>Outer Planets</u></b>	<b>261.0</b>
<i>Jupiter Europa (non-add).....</i>	175.0
<b><u>Technology</u></b>	<b>197.0</b>
<i>Plutonium (non-add).....</i>	17.7
<i>Icy Satellites Surface Technology (non-add).....</i>	25.0
<b>Astrophysics</b>	<b>762.4</b>
<b><u>Astrophysics Research</u></b>	<b>192.8</b>
Astrophysics Research & Analysis.....	69.7
Balloon Project.....	36.2
Science Education.....	37.0
Other Missions & Data Analysis.....	49.9
<b><u>Cosmic Origins</u></b>	<b>195.6</b>
Hubble Space Telescope.....	98.3
Stratospheric Observatory for Infrared Astronomy.....	83.6
Other Missions & Data Analysis.....	13.7
<b><u>Physics of the Cosmos: Other Missions &amp; Data Analysis</u></b>	<b>125.3</b>
<b><u>Exoplanet Exploration</u></b>	<b>141.2</b>
<i>WFIRST/AFTA (non-add).....</i>	90.0
<b><u>Astrophysics Explorer</u></b>	<b>107.6</b>
Other Missions & Data Analysis.....	45.1
Transiting Exoplanet Survey Satellite (TESS).....	62.5

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James Webb Space Telescope	620.0
<b>Heliophysics</b>	<b>647.2</b>
<u>Heliophysics Research</u>	<u>160.0</u>
Heliophysics Research & Analysis.....	36.3
Sounding Rockets.....	49.8
Research Range.....	21.6
Other Missions & Data Analysis.....	52.2
<u>Living With a Star</u>	<u>337.1</u>
Solar Probe Plus.....	255.6
Solar Orbiter Collaboration.....	32.8
Other Missions & Data Analysis.....	48.7
<u>Solar Terrestrial Probes</u>	<u>49.5</u>
Magnetospheric Multiscale (MMS).....	30.1
Other Missions & Data Analysis.....	19.4
<u>Heliophysics Explorer</u>	<u>100.6</u>
ICON.....	48.4
Other Missions & Data Analysis.....	52.3
Other Heliophysics Adjustments	
<b>AERONAUTICS</b>	<b>633.8</b>
<b>Aeronautics</b>	<b>633.8</b>
<u>Airspace Operations and Safety Program</u>	<u>147.1</u>
<u>Advanced Air Vehicles Program</u>	<u>254.9</u>
<u>Integrated Aviation Systems Program</u>	<u>128.3</u>
<u>Transformative Aero Concepts Program</u>	<u>103.5</u>
<b>SPACE TECHNOLOGY</b>	<b>686.4</b>
<b>Space Technology</b>	<b>686.4</b>
<u>Agency Technology and Innovation</u>	<u>31.5</u>
<u>SBIR &amp; STTR</u>	<u>200.9</u>
<u>Space Technology &amp; Research Development</u>	<u>454.0</u>
<i>Satellite Servicing/RESTORE-L (non-add)</i> .....	133.0

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<b>EXPLORATION</b>	<b>4,013.7</b>
Human Exploration Capabilities	3,640.8
<u>Orion Multi-Purpose Crew Vehicle: Crew Vehicle Dev.</u>	<u>1,270.0</u>
<u>Space Launch System</u>	<u>1,971.9</u>
SLS Program Integration.....	50.0
Launch Vehicle Development.....	1,844.9
Enhanced Upper Stage (EUS) development.....	77.0
<u>Exploration Ground Systems</u>	<u>398.9</u>
Exploration Research & Development	355.4
<u>Human Research Program</u>	<u>145.0</u>
<u>Advanced Exploration Systems</u>	<u>210.4</u>
Commercial Spaceflight	17.5
<u>{Commercial Crew} 3/</u>	<u>17.5</u>
<b>SPACE OPERATIONS</b>	<b>5,014.8</b>
Space Shuttle	5.4
International Space Station	1,657.2
<u>International Space Station Program</u>	<u>1,657.2</u>
{ISS Cargo Crew Services} 3/.....	<u>220.8</u>
ISS Systems Operations & Maintenance.....	1,092.5
ISS Research.....	343.9
<i>Satellite Servicing (non-add)</i> .....	5.0
Space Transportation	2,429.5
<u>Crew and Cargo Program</u>	<u>1,203.2</u>
<u>Commercial Crew Program 2/</u>	<u>1,226.3</u>
Space & Flight Support	922.7
<u>21<sup>st</sup> Century Space Launch Complex</u>	<u>28.4</u>

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<u>Space Communications &amp; Navigation</u>	669.8
Space Communications Networks.....	594.4
Space Communications Support.....	75.4
<u>Human Space Flight Operations</u>	100.6
<u>Launch Services</u>	81.2
<u>Rocket Propulsion Test</u>	42.7
<b>EDUCATION</b>	<b>115.0</b>
<b>Education</b>	<b>115.0</b>
<u>Aerospace Research &amp; Career Development</u>	58.0
NASA Space Grant.....	40.0
EPSCoR.....	18.0
<u>STEM Education &amp; Accountability</u>	57.0
Minority University Research Education Program.....	32.0
STEM Education & Accountability Projects.....	25.0
<b>SAFETY, SECURITY AND MISSION SERVICES</b>	<b>2,772.4</b>
<b>Center Management &amp; Operations</b>	<b>1,987.2</b>
<u>Center Institutional Capabilities</u>	1,532.7
<u>Center Programmatic Capabilities</u>	454.5
<b>Agency Management &amp; Operations</b>	<b>785.2</b>
<u>Agency Management</u>	362.3
<u>Safety &amp; Mission Success</u>	176.2
Safety & Mission Assurance.....	49.7
Chief Engineer.....	83.4
Chief Health & Medical Officer.....	4.0
Independent Verification & Validation.....	39.1
<u>Agency IT Services</u>	219.8
IT Management.....	15.1
Applications.....	55.8

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	<b>FY 2016 NASA Spending Plan</b>
Infrastructure.....	148.9
<u>Strategic Capabilities Assets Program</u>	<u>26.9</u>
<b>CONSTRUCTION &amp; ENVIRONMENTAL COMPLIANCE &amp; REST.</b>	<b>427.4</b>
<b>Construction of Facilities (CoF)</b>	<b>352.9</b>
<u>Aeronautics CoF</u>	<u>5.1</u>
<u>Institutional CoF</u>	<u>278.2</u>
<u>Exploration CoF</u>	<u>28.3</u>
<u>Space Operations CoF</u>	<u>36.7</u>
<u>Science CoF</u>	<u>4.6</u>
<b>Environmental Compliance &amp; Restoration</b>	<b>74.5</b>
<b>OFFICE OF INSPECTOR GENERAL</b>	<b>37.4</b>

<sup>1</sup>Program changes within Science reflect changes from amount specified in P.L. 114-113 or Joint Explanatory Statement (JES).

<sup>2</sup>Prior to enactment of FY 2016 final appropriations P.L. 114-113, the Commercial Crew Program was executed under the Exploration account and the Crew and Cargo Program was executed as part of the ISS program per the terms of the FY 2016 Continuing Resolution. Technical changes in these columns move program budget authority from where it was appropriated in P.L. 114-113 to where it was executed prior to enactment and do not represent any change in NASA's mission content. NASA considered re-recording executed funds under the final appropriation, but has concluded that the level of effort necessary to do so would be significant, time-consuming, and would not be an efficient use of taxpayers' funds.

<sup>3</sup>These lines existed under the FY 2015 appropriation, and were used to execute program funds under the FY 2016 Continuing Resolution (see 2/). These lines have not been used further since enactment of P.L. 114-113.