

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Federal Funds

SCIENCE

For necessary expenses, not otherwise provided for, in the conduct and support of science research and development activities, including research, development, operations, support, and services; maintenance and repair, facility planning and design; space flight, spacecraft control, and communications activities; program management; personnel and related costs, including uniforms or allowances therefor, as authorized by sections 5901 and 5902 of title 5, United States Code; travel expenses; purchase and hire of passenger motor vehicles; and purchase, lease, charter, maintenance, and operation of mission and administrative aircraft, **[\$7,138,900,000]** \$6,306,500,000, to remain available until September 30, **[2021: Provided, That, \$1,971,800,000 shall be for Earth Science; \$2,713,400,000 shall be for Planetary Science; \$1,306,200,000 shall be for Astrophysics; \$423,000,000 shall be for the James Webb Space Telescope; and \$724,500,000 shall be for Heliophysics: Provided further, That of the amounts provided, \$592,600,000 is for an orbiter to meet the science goals for the Jupiter Europa mission as recommended in previous Planetary Science Decadal surveys: Provided further, That the National Aeronautics and Space Administration shall use the Space Launch System as the launch vehicles for the Jupiter Europa missions, plan for an orbiter launch no later than 2025 and a lander launch no later than 2027, and include in the fiscal year 2021 budget the 5-year funding profile necessary to achieve these goals]** 2022. (Science Appropriations Act, 2020.)

Program and Financing (in millions of dollars)

Identification code 080-0120-0-1-252	2019 actual	2020 est.	2021 est.
Obligations by program activity:			
0001 Science	6,576	7,139	6,307
Budgetary resources:			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1	400	745	749
1021 Recoveries of prior year unpaid obligations	34	74	74
1050 Unobligated balance (total)	434	819	823
Budget authority:			
Appropriations, discretionary:			
1100 Appropriation	6,906	7,139	6,307
1120 Appropriations transferred to other accts CECR [080-0130]	-10		
1120 Appropriations transferred to other acct Aeronautics [080-0126]	-9		
1131 Unobligated balance of appropriations permanently reduced		-70	
1160 Appropriation, discretionary (total)	6,887	7,069	6,307
1930 Total budgetary resources available	7,321	7,888	7,130
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year	745	749	823
Change in obligated balance:			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1	4,082	4,367	5,304
3010 New obligations, unexpired accounts	6,576	7,139	6,307
3011 Obligations ("upward adjustments"), expired accounts	108		
3020 Outlays (gross)	-6,254	-6,128	-6,490
3040 Recoveries of prior year unpaid obligations, unexpired	-34	-74	-74
3041 Recoveries of prior year unpaid obligations, expired	-111		
3050 Unpaid obligations, end of year	4,367	5,304	5,047
Memorandum (non-add) entries:			
3100 Obligated balance, start of year	4,082	4,367	5,304
3200 Obligated balance, end of year	4,367	5,304	5,047
Budget authority and outlays, net:			
Discretionary:			
4000 Budget authority, gross	6,887	7,069	6,307
Outlays, gross:			
4010 Outlays from new discretionary authority	2,575	2,616	2,334
4011 Outlays from discretionary balances	3,679	3,512	4,156
4020 Outlays, gross (total)	6,254	6,128	6,490
Offsets against gross budget authority and outlays:			
Offsetting collections (collected) from:			
4033 Non-Federal sources	-7		
Additional offsets against gross budget authority only:			
4052 Offsetting collections credited to expired accounts	7		

4060 Additional offsets against budget authority only (total)	7		
4070 Budget authority, net (discretionary)	6,887	7,069	6,307
4080 Outlays, net (discretionary)	6,247	6,128	6,490
4180 Budget authority, net (total)	6,887	7,069	6,307
4190 Outlays, net (total)	6,247	6,128	6,490

The Science appropriation provides for NASA's science mission, which is comprised of the agency's Earth and space science programs: Earth Science, Planetary Science, Heliophysics, the James Webb Space Telescope, and Astrophysics. These programs, which are managed by the Science Mission Directorate, focus on three interdisciplinary objectives: discovering the secrets of the Universe; searching for life in the Solar System and beyond; and safeguarding and improving life on Earth. These objectives include research concerning the global Earth system; other planets in the solar system and around other stars; the connections among the Sun, Earth, and heliosphere; and the origin and evolution of planetary systems, the galaxy, and the universe, including the origin and distribution of life in the universe. Program objectives are pursued through robotic flight missions, ground-based scientific research and data analysis, and the development of new technologies for future missions. Additionally, the Budget funds within Science a lunar robotic exploration program that will support innovative approaches to achieving human and science exploration goals. It also supports a Mars exploration program that develops and operates robotic missions and conducts research and analysis to address decadal science objectives and prepare for future human exploration.

The Science appropriation provides for all of the research, development, operations, salaries and related expenses, and other general and administrative activities required to execute the programs within this account. Costs include labor, travel, procurement, and test and fabrication costs. Performance goals associated with these activities are addressed in NASA's detailed budget request.

Object Classification (in millions of dollars)

Identification code 080-0120-0-1-252	2019 actual	2020 est.	2021 est.
Direct obligations:			
Personnel compensation:			
11.1 Full-time permanent	263	257	252
11.3 Other than full-time permanent	3	3	3
11.5 Other personnel compensation	1	1	1
11.9 Total personnel compensation	267	261	256
12.1 Civilian personnel benefits	84	91	81
21.0 Travel and transportation of persons	24	26	23
22.0 Transportation of things	9	10	9
23.2 Rental payments to others	4	4	4
23.3 Communications, utilities, and miscellaneous charges	6	7	6
24.0 Printing and reproduction	1	1	1
25.1 Advisory and assistance services	97	105	93
25.2 Other services from non-Federal sources	131	142	126
25.3 Other goods and services from Federal sources	246	267	236
25.4 Operation and maintenance of facilities	23	25	22
25.5 Research and development contracts	4,641	5,068	4,449
25.7 Operation and maintenance of equipment	128	139	123
26.0 Supplies and materials	34	37	33
31.0 Equipment	40	43	38
32.0 Land and structures	1	1	1
41.0 Grants, subsidies, and contributions	840	912	806
99.9 Total new obligations, unexpired accounts	6,576	7,139	6,307

Employment Summary

Identification code 080-0120-0-1-252	2019 actual	2020 est.	2021 est.
1001 Direct civilian full-time equivalent employment	2,010	1,851	1,862

AERONAUTICS

For necessary expenses, not otherwise provided for, in the conduct and support of aeronautics research and development activities, including research, development,

AERONAUTICS—Continued

operations, support, and services; maintenance and repair, facility planning and design; space flight, spacecraft control, and communications activities; program management; personnel and related costs, including uniforms or allowances therefor, as authorized by sections 5901 and 5902 of title 5, United States Code; travel expenses; purchase and hire of passenger motor vehicles; and purchase, lease, charter, maintenance, and operation of mission and administrative aircraft, **[\$783,900,000]** \$819,000,000, to remain available until September 30, **[2021]** 2022. (Science Appropriations Act, 2020.)

Program and Financing (in millions of dollars)

Identification code 080-0126-0-1-402	2019 actual	2020 est.	2021 est.
Obligations by program activity:			
0001 Aeronautics	729	784	819
Budgetary resources:			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1	25	27	39
1021 Recoveries of prior year unpaid obligations	6	12	12
1050 Unobligated balance (total)	31	39	51
Budget authority:			
Appropriations, discretionary:			
1100 Appropriation	725	784	819
1120 Appropriations transferred to other CECR [080-0130]	-9		
1121 Appropriations transferred from other acct Science [080-0120]	9		
1160 Appropriation, discretionary (total)	725	784	819
1930 Total budgetary resources available	756	823	870
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year	27	39	51
Change in obligated balance:			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1	395	406	473
3010 New obligations, unexpired accounts	729	784	819
3020 Outlays (gross)	-710	-705	-796
3040 Recoveries of prior year unpaid obligations, unexpired	-6	-12	-12
3041 Recoveries of prior year unpaid obligations, expired	-2		
3050 Unpaid obligations, end of year	406	473	484
Memorandum (non-add) entries:			
3100 Obligated balance, start of year	395	406	473
3200 Obligated balance, end of year	406	473	484
Budget authority and outlays, net:			
Discretionary:			
4000 Budget authority, gross	725	784	819
Outlays, gross:			
4010 Outlays from new discretionary authority	372	400	418
4011 Outlays from discretionary balances	338	305	378
4020 Outlays, gross (total)	710	705	796
4180 Budget authority, net (total)	725	784	819
4190 Outlays, net (total)	710	705	796

This appropriation provides for the full costs associated with NASA's Aeronautics Research mission, which aims to expand the boundaries of aeronautical knowledge for the benefit of the nation and the broad aeronautics community. The mission is managed by NASA's Aeronautics Research Mission Directorate, and consists of the following integrated research programs: Airspace Operations and Safety, Advanced Air Vehicles, Integrated Aviation Systems, Transformative Aeronautics Concepts, and Aerosciences Evaluation and Test Capabilities. Full costs of these programs include all labor, travel, procurement, test, and fabrication costs associated with the research, development, operations, and other general and administrative activities required to execute the programs. Performance goals associated with these activities are addressed in NASA's detailed budget request.

Object Classification (in millions of dollars)

Identification code 080-0126-0-1-402	2019 actual	2020 est.	2021 est.
Direct obligations:			
Personnel compensation:			
11.1 Full-time permanent	163	149	156

11.3 Other than full-time permanent	4	4	4
11.9 Total personnel compensation	167	153	160
12.1 Civilian personnel benefits	53	57	60
21.0 Travel and transportation of persons	7	8	8
23.3 Communications, utilities, and miscellaneous charges	3	3	3
25.1 Advisory and assistance services	24	26	27
25.2 Other services from non-Federal sources	28	30	31
25.3 Other goods and services from Federal sources	6	6	7
25.4 Operation and maintenance of facilities	40	43	45
25.5 Research and development contracts	262	296	308
25.7 Operation and maintenance of equipment	39	55	58
26.0 Supplies and materials	16	17	18
31.0 Equipment	28	30	31
32.0 Land and structures	1	1	1
41.0 Grants, subsidies, and contributions	55	59	62
99.9 Total new obligations, unexpired accounts	729	784	819

Employment Summary

Identification code 080-0126-0-1-402	2019 actual	2020 est.	2021 est.
1001 Direct civilian full-time equivalent employment	1,374	1,194	1,161

[SPACE] EXPLORATION TECHNOLOGY

For necessary expenses, not otherwise provided for, in the conduct and support of space exploration technology [research and development] activities, including research, development, operations, support, and services; maintenance and repair, facility planning and design; space flight, spacecraft control, and communications activities; program management; personnel and related costs, including uniforms or allowances therefor, as authorized by sections 5901 and 5902 of title 5, United States Code; travel expenses; purchase and hire of passenger motor vehicles; and purchase, lease, charter, maintenance, and operation of mission and administrative aircraft, **[\$1,100,000,000]** \$1,578,300,000, to remain available until September 30, **[2021: Provided,** That \$227,200,000 shall be for RESTORE-L/Space Infrastructure DEXterous Robot: *Provided further,* That \$110,000,000 shall be for the development and demonstration of a nuclear thermal propulsion system, of which \$80,000,000 shall be for the design of a flight demonstration system: *Provided further,* That, not later than 180 days after the enactment of this Act, the National Aeronautics and Space Administration (NASA) shall provide a plan for the design of a flight demonstration **]** 2022. (Science Appropriations Act, 2020.)

Program and Financing (in millions of dollars)

Identification code 080-0131-0-1-252	2019 actual	2020 est.	2021 est.
Obligations by program activity:			
0001 Exploration Technology	906	1,100	1,578
Budgetary resources:			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1	40	67	79
1021 Recoveries of prior year unpaid obligations	6	12	12
1050 Unobligated balance (total)	46	79	91
Budget authority:			
Appropriations, discretionary:			
1100 Appropriation	927	1,100	1,578
1930 Total budgetary resources available	973	1,179	1,669
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year	67	79	91
Change in obligated balance:			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1	528	613	658
3010 New obligations, unexpired accounts	906	1,100	1,578
3011 Obligations ("upward adjustments"), expired accounts	2		
3020 Outlays (gross)	-813	-1,043	-1,219
3040 Recoveries of prior year unpaid obligations, unexpired	-6	-12	-12
3041 Recoveries of prior year unpaid obligations, expired	-4		
3050 Unpaid obligations, end of year	613	658	1,005
Memorandum (non-add) entries:			
3100 Obligated balance, start of year	528	613	658
3200 Obligated balance, end of year	613	658	1,005
Budget authority and outlays, net:			
Discretionary:			
4000 Budget authority, gross	927	1,100	1,578

Outlays, gross:				
4010	Outlays from new discretionary authority	384	451	647
4011	Outlays from discretionary balances	429	592	572
4020	Outlays, gross (total)	813	1,043	1,219
Offsets against gross budget authority and outlays:				
Offsetting collections (collected) from:				
4033	Non-Federal sources	-1		
Additional offsets against gross budget authority only:				
4052	Offsetting collections credited to expired accounts	1		
4070	Budget authority, net (discretionary)	927	1,100	1,578
4080	Outlays, net (discretionary)	812	1,043	1,219
4180	Budget authority, net (total)	927	1,100	1,578
4190	Outlays, net (total)	812	1,043	1,219

The Budget renames the Space Technology account to Exploration Technology to better reflect the focus of this account on supporting the Exploration Campaign. Space Technology Mission Directorate is and will continue to be the organization name.

The Exploration Technology appropriation provides for the costs associated with the research and technology development needed for space exploration. The full costs provide for all of the research, development, operations, salaries and related expenses, and other general and administrative activities required to execute the programs within this account. Costs include labor, travel, procurement, and those associated with fabrication, tests and flight demonstrations.

The programs within the Exploration Technology account enable and reduce barriers to new exploration missions by drawing on talent from the NASA workforce, academia, small businesses and the broader space enterprise to deliver innovative solutions that dramatically improve technological capabilities for NASA and the Nation. The Exploration Technology appropriation funds several programs: Small Business Innovative Research (SBIR), Small Business Technology Transfer (STTR), Early Stage Innovation & Partnerships, Technology Maturation, and Technology Demonstrations. Performance goals associated with these activities are addressed in NASA's detailed budget request.

Object Classification (in millions of dollars)

Identification code 080-0131-0-1-252				
	2019 actual	2020 est.	2021 est.	
Direct obligations:				
Personnel compensation:				
11.1	Full-time permanent	92	90	90
11.3	Other than full-time permanent	2	2	3
11.9	Total personnel compensation	94	92	93
12.1	Civilian personnel benefits	30	40	44
21.0	Travel and transportation of persons	5	6	9
22.0	Transportation of things	2	2	3
25.1	Advisory and assistance services	34	45	71
25.2	Other services from non-Federal sources	35	46	74
25.3	Other goods and services from Federal sources	32	41	68
25.4	Operation and maintenance of facilities	4	5	7
25.5	Research and development contracts	582	713	1,035
25.7	Operation and maintenance of equipment	19	23	43
26.0	Supplies and materials	11	13	19
31.0	Equipment	9	11	16
41.0	Grants, subsidies, and contributions	49	63	96
99.9	Total new obligations, unexpired accounts	906	1,100	1,578

Employment Summary

Identification code 080-0131-0-1-252				
	2019 actual	2020 est.	2021 est.	
1001	Direct civilian full-time equivalent employment	751	668	669

DEEP SPACE EXPLORATION SYSTEMS

For necessary expenses, not otherwise provided for, in the conduct and support of exploration research and development activities, including research, development, operations, support, and services; maintenance and repair, facility planning and design; space flight, spacecraft control, and communications activities; program management; personnel and related costs, including uniforms or allowances therefor, as authorized by sections 5901 and 5902 of title 5, United States Code; travel ex-

penses; purchase and hire of passenger motor vehicles; and purchase, lease, charter, maintenance, and operation of mission and administrative aircraft, **[\$6,017,600,000]** \$8,761,700,000, to remain available until September 30, **[2021: Provided,** That not less than \$1,406,700,000 shall be for the Orion Multi-Purpose Crew Vehicle: *Provided further,* That not less than \$2,585,900,000 shall be for the Space Launch System (SLS) launch vehicle, which shall have a lift capability not less than 130 metric tons and which shall have core elements and an Exploration Upper Stage developed simultaneously to be used to the maximum extent practicable, including for Earth to Moon missions and a Moon landing: *Provided further,* That of the amounts provided for SLS, not less than \$300,000,000 shall be for Exploration Upper Stage development: *Provided further,* That \$590,000,000 shall be for Exploration Ground Systems: *Provided further,* That the National Aeronautics and Space Administration shall provide to the Committees on Appropriations of the House of Representatives and the Senate, concurrent with the annual budget submission, a 5-year budget profile for an integrated system that includes the SLS, the Orion Multi-Purpose Crew Vehicle, and associated ground systems that will ensure an Exploration Mission-2 crewed launch as early as possible, as well as a system-based funding profile for a sustained launch cadence beyond the initial crewed test launch: *Provided further,* That \$1,435,000,000 shall be for exploration research and development] **2022.** (*Science Appropriations Act, 2020.*)

Program and Financing (in millions of dollars)

Identification code 080-0124-0-1-252				
	2019 actual	2020 est.	2021 est.	
Obligations by program activity:				
0001	Deep Space Exploration Systems	5,290	6,018	8,762
Budgetary resources:				
Unobligated balance:				
1000	Unobligated balance brought forward, Oct 1	416	198	251
1021	Recoveries of prior year unpaid obligations	27	53	53
1050	Unobligated balance (total)	443	251	304
Budget authority:				
Appropriations, discretionary:				
1100	Appropriation	5,051	6,018	8,762
1120	Appropriations transferred to other CECR [080-0130]	-6		
1160	Appropriation, discretionary (total)	5,045	6,018	8,762
1930	Total budgetary resources available	5,488	6,269	9,066
Memorandum (non-add) entries:				
1941	Unexpired unobligated balance, end of year	198	251	304
Change in obligated balance:				
Unpaid obligations:				
3000	Unpaid obligations, brought forward, Oct 1	1,375	2,118	2,517
3010	New obligations, unexpired accounts	5,290	6,018	8,762
3011	Obligations ("upward adjustments"), expired accounts	26		
3020	Outlays (gross)	-4,523	-5,566	-7,141
3040	Recoveries of prior year unpaid obligations, unexpired	-27	-53	-53
3041	Recoveries of prior year unpaid obligations, expired	-23		
3050	Unpaid obligations, end of year	2,118	2,517	4,085
Memorandum (non-add) entries:				
3100	Obligated balance, start of year	1,375	2,118	2,517
3200	Obligated balance, end of year	2,118	2,517	4,085
Budget authority and outlays, net:				
Discretionary:				
4000	Budget authority, gross	5,045	6,018	8,762
Outlays, gross:				
4010	Outlays from new discretionary authority	3,099	3,671	5,345
4011	Outlays from discretionary balances	1,424	1,895	1,796
4020	Outlays, gross (total)	4,523	5,566	7,141
Offsets against gross budget authority and outlays:				
Offsetting collections (collected) from:				
4033	Non-Federal sources	-1		
Additional offsets against gross budget authority only:				
4052	Offsetting collections credited to expired accounts	1		
4070	Budget authority, net (discretionary)	5,045	6,018	8,762
4080	Outlays, net (discretionary)	4,522	5,566	7,141
4180	Budget authority, net (total)	5,045	6,018	8,762
4190	Outlays, net (total)	4,522	5,566	7,141

The Budget has renamed the Exploration account Deep Space Exploration Systems to better reflect the activities in the account.

This appropriation provides for costs associated with the development of systems and capabilities required for human exploration of space. The capabilities include launch and crew vehicles for missions beyond low

DEEP SPACE EXPLORATION SYSTEMS—Continued

Earth orbit; providing integrated systems to keep astronauts safe, healthy, and functional during deep space missions; and advancing the tools to increase exploration capabilities and reduce the launch mass and cost of deep space missions. The full costs provide for the research, development, operations, salaries and related expenses, and other general and administrative activities required to execute the programs within this account. Costs include labor, travel, procurement, test, and fabrication costs. Performance goals associated with these activities are addressed in NASA's detailed budget request.

NASA's human deep space exploration programs include the Space Launch System, Orion, Exploration Ground Systems under the Exploration Systems Development theme, as well as the Exploration Research and Development theme which consists of Advanced Exploration Systems, the Gateway, Advanced Cislunar and Surface Capabilities, the Human Landing System, and the Human Research Program.

Object Classification (in millions of dollars)

Identification code 080-0124-0-1-252	2019 actual	2020 est.	2021 est.
Direct obligations:			
Personnel compensation:			
11.1 Full-time permanent	343	390	400
11.3 Other than full-time permanent	3	3	5
11.5 Other personnel compensation	2	2	3
11.8 Special personal services payments	1	1	2
11.9 Total personnel compensation	349	396	410
12.1 Civilian personnel benefits	114	130	189
13.0 Benefits for former personnel	1	1	2
21.0 Travel and transportation of persons	15	17	25
22.0 Transportation of things	1	1	2
23.3 Communications, utilities, and miscellaneous charges	25	28	41
25.1 Advisory and assistance services	397	452	658
25.2 Other services from non-Federal sources	48	55	80
25.3 Other goods and services from Federal sources	40	45	66
25.4 Operation and maintenance of facilities	133	151	220
25.5 Research and development contracts	3,466	3,944	5,908
25.7 Operation and maintenance of equipment	182	207	301
26.0 Supplies and materials	42	48	70
31.0 Equipment	55	63	91
32.0 Land and structures	349	397	578
41.0 Grants, subsidies, and contributions	73	83	121
99.9 Total new obligations, unexpired accounts	5,290	6,018	8,762

Employment Summary

Identification code 080-0124-0-1-252	2019 actual	2020 est.	2021 est.
1001 Direct civilian full-time equivalent employment	2,793	2,703	2,785

SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS ENGAGEMENT

For necessary expenses, not otherwise provided for, in the conduct and support of aerospace and aeronautical education research and development activities, including research, development, operations, support, and services; program management; personnel and related costs, including uniforms or allowances therefor, as authorized by sections 5901 and 5902 of title 5, United States Code; travel expenses; purchase and hire of passenger motor vehicles; and purchase, lease, charter, maintenance, and operation of mission and administrative aircraft, \$120,000,000, to remain available until September 30, 2021, of which \$24,000,000 shall be for the Established Program to Stimulate Competitive Research and \$48,000,000 shall be for the National Space Grant College and Fellowship Program Unobligated balances previously appropriated under this heading shall be available for purposes of the closure of the Office of STEM Engagement, including, but not limited to, ongoing administration, oversight, monitoring, and funding of grants previously awarded by the Office of STEM Engagement. (Science Appropriations Act, 2020.)

Program and Financing (in millions of dollars)

Identification code 080-0128-0-1-252	2019 actual	2020 est.	2021 est.
Obligations by program activity:			
0001 STEM Engagement	110	120	.....
Budgetary resources:			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1	8	9	11
1021 Recoveries of prior year unpaid obligations	1	2	2
1050 Unobligated balance (total)	9	11	13
Budget authority:			
Appropriations, discretionary:			
1100 Appropriation	110	120	.....
1930 Total budgetary resources available	119	131	13
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year	9	11	13
Change in obligated balance:			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1	148	149	151
3010 New obligations, unexpired accounts	110	120	.....
3011 Obligations ("upward adjustments"), expired accounts	1	.....	.....
3020 Outlays (gross)	-107	-116	-89
3040 Recoveries of prior year unpaid obligations, unexpired	-1	-2	-2
3041 Recoveries of prior year unpaid obligations, expired	-2	.....	.....
3050 Unpaid obligations, end of year	149	151	60
Memorandum (non-add) entries:			
3100 Obligated balance, start of year	148	149	151
3200 Obligated balance, end of year	149	151	60
Budget authority and outlays, net:			
Discretionary:			
4000 Budget authority, gross	110	120	.....
Outlays, gross:			
4010 Outlays from new discretionary authority	14	16	.....
4011 Outlays from discretionary balances	93	100	89
4020 Outlays, gross (total)	107	116	89
4180 Budget authority, net (total)	110	120	.....
4190 Outlays, net (total)	107	116	89

The Budget proposes to terminate funding for the Office of Science, Technology, Engineering, and Mathematics (STEM) Engagement's portfolio of programs and projects. Unobligated balances previously appropriated may be used to support close-out costs. Moving forward, a small team at NASA headquarters funded out of Safety, Security, and Mission Services will be accountable for strategic direction and coordination of the agency's STEM engagement efforts.

Object Classification (in millions of dollars)

Identification code 080-0128-0-1-252	2019 actual	2020 est.	2021 est.
11.1 Direct obligations: Personnel compensation: Full-time permanent	4	4	.....
11.9 Total personnel compensation	4	4	.....
12.1 Civilian personnel benefits	2	2	.....
25.1 Advisory and assistance services	2	2	.....
25.2 Other services from non-Federal sources	6	7	.....
25.5 Research and development contracts	6	7	.....
25.7 Operation and maintenance of equipment	6	7	.....
41.0 Grants, subsidies, and contributions	84	91	.....
99.9 Total new obligations, unexpired accounts	110	120	.....

Employment Summary

Identification code 080-0128-0-1-252	2019 actual	2020 est.	2021 est.
1001 Direct civilian full-time equivalent employment	36	38	.....

SAFETY, SECURITY AND MISSION SERVICES

For necessary expenses, not otherwise provided for, in the conduct and support of science, aeronautics, space technology, exploration, space operations and education research and development activities, including research, development, operations,

support, and services; maintenance and repair, facility planning and design; space flight, spacecraft control, and communications activities; program management; personnel and related costs, including uniforms or allowances therefor, as authorized by sections 5901 and 5902 of title 5, United States Code; travel expenses; purchase and hire of passenger motor vehicles; not to exceed \$63,000 for official reception and representation expenses; and purchase, lease, charter, maintenance, and operation of mission and administrative aircraft, **[\$2,913,300,000]** \$3,009,900,000, to remain available until September 30, **[2021]** 2022. (*Science Appropriations Act, 2020.*)

Program and Financing (in millions of dollars)

Identification code 080-0122-0-1-252	2019 actual	2020 est.	2021 est.
Obligations by program activity:			
0001 Safety, Security and Mission Services	2,776	2,913	3,010
0801 Cross Agency Support (Reimbursable)	1,633	2,344	1,932
0900 Total new obligations, unexpired accounts	4,409	5,257	4,942
Budgetary resources:			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1	550	781	829
1021 Recoveries of prior year unpaid obligations	62	48	48
1050 Unobligated balance (total)	612	829	877
Budget authority:			
Appropriations, discretionary:			
1100 Appropriation	2,755	2,913	3,010
Spending authority from offsetting collections, discretionary:			
1700 Collected	1,582	2,344	1,932
1701 Change in uncollected payments, Federal sources	241		
1750 Spending auth from offsetting collections, disc (total)	1,823	2,344	1,932
1900 Budget authority (total)	4,578	5,257	4,942
1930 Total budgetary resources available	5,190	6,086	5,819
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year	781	829	877
Change in obligated balance:			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1	2,420	2,134	1,887
3010 New obligations, unexpired accounts	4,409	5,257	4,942
3011 Obligations ("upward adjustments"), expired accounts	20		
3020 Outlays (gross)	-4,629	-5,456	-5,336
3040 Recoveries of prior year unpaid obligations, unexpired	-62	-48	-48
3041 Recoveries of prior year unpaid obligations, expired	-24		
3050 Unpaid obligations, end of year	2,134	1,887	1,445
Uncollected payments:			
3060 Uncollected pymts, Fed sources, brought forward, Oct 1	-1,882	-1,907	-1,907
3070 Change in uncollected pymts, Fed sources, unexpired	-241		
3071 Change in uncollected pymts, Fed sources, expired	216		
3090 Uncollected pymts, Fed sources, end of year	-1,907	-1,907	-1,907
Memorandum (non-add) entries:			
3100 Obligated balance, start of year	538	227	-20
3200 Obligated balance, end of year	227	-20	-462
Budget authority and outlays, net:			
Discretionary:			
4000 Budget authority, gross	4,578	5,257	4,942
Outlays, gross:			
4010 Outlays from new discretionary authority	2,720	3,127	3,065
4011 Outlays from discretionary balances	1,909	2,329	2,271
4020 Outlays, gross (total)	4,629	5,456	5,336
Offsets against gross budget authority and outlays:			
Offsetting collections (collected) from:			
4030 Federal sources	-1,588	-2,094	-1,682
4033 Non-Federal sources	-209	-250	-250
4040 Offsets against gross budget authority and outlays (total)	-1,797	-2,344	-1,932
Additional offsets against gross budget authority only:			
4050 Change in uncollected pymts, Fed sources, unexpired	-241		
4052 Offsetting collections credited to expired accounts	215		
4060 Additional offsets against budget authority only (total)	-26		
4070 Budget authority, net (discretionary)	2,755	2,913	3,010
4080 Outlays, net (discretionary)	2,832	3,112	3,404
4180 Budget authority, net (total)	2,755	2,913	3,010
4190 Outlays, net (total)	2,832	3,112	3,404

Safety, Security, and Mission Services (SSMS) manages agency-wide mission support functions and some of NASA's research facilities. This appropriation provides for the operations and maintenance, salaries and

related expenses, and other general and administrative activities that support all NASA's missions. Beginning in FY 2021, NASA's Operating Plan and accounting structure will reflect the new architecture adopted by the Agency for the administrative functions funded under SSMS. Under the new architecture, programs, projects and activities fall under the two Themes described below.

Mission Services and Capabilities (MSaC) delivers enterprise solutions through three programs: Information Technology; Mission Enabling Services; and Infrastructure and Technical Capabilities. These programs meet workforce, infrastructure, information technology and business operations requirements necessary to enable NASA's mission. MSaC ensures that critical Agency operations across all NASA Centers are effective, efficient, safe, and meet statutory, regulatory, and fiduciary responsibilities.

Engineering, Safety, and Operations (ESO) provides for the ongoing management of NASA Headquarters, nine Centers, and component facilities. It funds medical and engineering technical authorities and contributes to the reduction of program risks by ensuring that technical skills and assets are ready and available to meet program and project requirements. ESO ensures that Center practices are technically and scientifically sound and that specialized infrastructure at the Centers is safe and reliable.

Object Classification (in millions of dollars)

Identification code 080-0122-0-1-252	2019 actual	2020 est.	2021 est.
Direct obligations:			
Personnel compensation:			
11.1 Full-time permanent	897	941	973
11.3 Other than full-time permanent	20	21	22
11.5 Other personnel compensation	36	38	39
11.9 Total personnel compensation	953	1,000	1,034
12.1 Civilian personnel benefits	295	310	320
13.0 Benefits for former personnel	1	1	1
21.0 Travel and transportation of persons	25	26	27
22.0 Transportation of things	1	1	1
23.0 Rental payments to others	21	22	23
23.3 Communications, utilities, and miscellaneous charges	82	86	89
24.0 Printing and reproduction	3	3	3
25.1 Advisory and assistance services	241	253	261
25.2 Other services from non-Federal sources	238	250	258
25.3 Other goods and services from Federal sources	46	48	50
25.4 Operation and maintenance of facilities	203	213	220
25.5 Research and development contracts	160	168	173
25.6 Medical care	7	7	8
25.7 Operation and maintenance of equipment	388	407	421
26.0 Supplies and materials	16	17	17
31.0 Equipment	60	63	65
32.0 Land and structures	16	17	17
41.0 Grants, subsidies, and contributions	20	21	22
99.0 Direct obligations	2,776	2,913	3,010
99.0 Reimbursable obligations	1,633	2,344	1,932
99.9 Total new obligations, unexpired accounts	4,409	5,257	4,942

Employment Summary

Identification code 080-0122-0-1-252	2019 actual	2020 est.	2021 est.
1001 Direct civilian full-time equivalent employment	7,158	7,601	7,602
2001 Reimbursable civilian full-time equivalent employment	434	301	301

CONSTRUCTION AND ENVIRONMENTAL COMPLIANCE AND RESTORATION

For necessary expenses for construction of facilities including repair, rehabilitation, revitalization, and modification of facilities, construction of new facilities and additions to existing facilities, facility planning and design, and restoration, and acquisition or condemnation of real property, as authorized by law, and environmental compliance and restoration, **[\$373,400,000]** \$539,085,000, to remain available until September 30, **[2025]** 2026: *Provided*, That proceeds from leases deposited into this account shall be available for a period of 5 years to the extent and in amounts as provided in annual appropriations Acts: *Provided further*, That such proceeds referred to in the preceding proviso shall be available for obligation for fiscal year **[2020]** 2021 in an amount not to exceed **[\$17,000,000]** \$18,700,000: *Provided further*, That each annual budget request shall include an annual estimate of gross

CONSTRUCTION AND ENVIRONMENTAL COMPLIANCE AND RESTORATION—Continued
receipts and collections and proposed use of all funds collected pursuant to section 20145 of title 51, United States Code. (Science Appropriations Act, 2020.)

Program and Financing (in millions of dollars)			
Identification code 080–0130–0–1–252	2019 actual	2020 est.	2021 est.
Obligations by program activity:			
0001 Construction and Environmental Compliance and Restoration (Direct)	460	373	539
0801 Construction and Environmental Compliance and Restoration (Reimbursable)		22	22
0900 Total new obligations, unexpired accounts	460	395	561
Budgetary resources:			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1	370	319	393
1021 Recoveries of prior year unpaid obligations	17	75	75
1050 Unobligated balance (total)	387	394	468
Budget authority:			
Appropriations, discretionary:			
1100 Appropriation	348	373	539
1120 Appropriations transferred to other acct Space Operations [080–0115]	–2		
1121 Appropriations transferred from other acct Aeronautics [080–0126]	9		
1121 Appropriations transferred from other Science [080–0120]	10		
1121 Appropriations transferred from other Exploration [080–0124]	6		
1121 Appropriations transferred from other Space Operations [080–0115]	1		
1160 Appropriation, discretionary (total)	372	373	539
Spending authority from offsetting collections, discretionary:			
1700 Collected	22	21	21
1900 Budget authority (total)	394	394	560
1930 Total budgetary resources available	781	788	1,028
Memorandum (non-add) entries:			
1940 Unobligated balance expiring	–2		
1941 Unexpired unobligated balance, end of year	319	393	467
Change in obligated balance:			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1	784	753	562
3010 New obligations, unexpired accounts	460	395	561
3011 Obligations ("upward adjustments"), expired accounts	18		
3020 Outlays (gross)	–475	–511	–500
3031 Unpaid obligations transferred from other accts [080–0110]	1		
3040 Recoveries of prior year unpaid obligations, unexpired	–17	–75	–75
3041 Recoveries of prior year unpaid obligations, expired	–18		
3050 Unpaid obligations, end of year	753	562	548
Memorandum (non-add) entries:			
3100 Obligated balance, start of year	784	753	562
3200 Obligated balance, end of year	753	562	548
Budget authority and outlays, net:			
Discretionary:			
4000 Budget authority, gross	394	394	560
Outlays, gross:			
4010 Outlays from new discretionary authority	18	25	35
4011 Outlays from discretionary balances	457	486	465
4020 Outlays, gross (total)	475	511	500
Offsets against gross budget authority and outlays:			
Offsetting collections (collected) from:			
4033 Non-Federal sources	–22	–21	–21
4180 Budget authority, net (total)	372	373	539
4190 Outlays, net (total)	453	490	479

This appropriation provides for NASA's construction and environmental compliance and restoration activities, and makes available the net proceeds from Enhanced Use Leases for maintenance, capital revitalization, and improvement of real property assets and related personal property at NASA Centers received under the authority of section 20145 of the National Aeronautics and Space Act (51 U.S.C. 20145). The funding provides for all of the research; development; operations; design, repair, rehabilitation, modification of facilities, and construction of new facilities; and other

general and administrative activities required to execute the programs within this account.

Object Classification (in millions of dollars)			
Identification code 080–0130–0–1–252	2019 actual	2020 est.	2021 est.
Direct obligations:			
23.3 Communications, utilities, and miscellaneous charges	2	2	2
25.1 Advisory and assistance services	24	19	28
25.2 Other services from non-Federal sources	52	42	61
25.3 Other goods and services from Federal sources	52	42	61
25.4 Operation and maintenance of facilities	53	45	63
25.5 Research and development contracts	9	7	11
25.7 Operation and maintenance of equipment	20	16	24
31.0 Equipment	1	1	1
32.0 Land and structures	246	199	288
99.0 Direct obligations	459	373	539
99.0 Reimbursable obligations	1	22	22
99.9 Total new obligations, unexpired accounts	460	395	561

[SPACE] LEO AND SPACEFLIGHT OPERATIONS

For necessary expenses, not otherwise provided for, in the conduct and support of space operations research and development activities, including research, development, operations, support and services; space flight, spacecraft control and communications activities, including operations, production, and services; maintenance and repair, facility planning and design; program management; personnel and related costs, including uniforms or allowances therefor, as authorized by sections 5901 and 5902 of title 5, United States Code; travel expenses; purchase and hire of passenger motor vehicles; and purchase, lease, charter, maintenance and operation of mission and administrative aircraft, **[\$4,140,200,000] \$4,187,300,000**, to remain available until September 30, **[2021] 2022**. (Science Appropriations Act, 2020.)

Program and Financing (in millions of dollars)			
Identification code 080–0115–0–1–252	2019 actual	2020 est.	2021 est.
Obligations by program activity:			
0001 LEO and Spaceflight Operations	4,780	4,140	4,187
Budgetary resources:			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1	117	98	425
1021 Recoveries of prior year unpaid obligations	121	327	327
1050 Unobligated balance (total)	238	425	752
Budget authority:			
Appropriations, discretionary:			
1100 Appropriation	4,639	4,140	4,187
1120 Appropriations transferred to other accts CECR [080–0130]	–1		
1121 Appropriations transferred from other acct CECR [080–0130]	2		
1160 Appropriation, discretionary (total)	4,640	4,140	4,187
1900 Budget authority (total)	4,640	4,140	4,187
1930 Total budgetary resources available	4,878	4,565	4,939
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year	98	425	752
Change in obligated balance:			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1	2,426	2,593	2,066
3010 New obligations, unexpired accounts	4,780	4,140	4,187
3011 Obligations ("upward adjustments"), expired accounts	13		
3020 Outlays (gross)	–4,499	–4,340	–4,201
3040 Recoveries of prior year unpaid obligations, unexpired	–121	–327	–327
3041 Recoveries of prior year unpaid obligations, expired	–6		
3050 Unpaid obligations, end of year	2,593	2,066	1,725
Memorandum (non-add) entries:			
3100 Obligated balance, start of year	2,426	2,593	2,066
3200 Obligated balance, end of year	2,593	2,066	1,725
Budget authority and outlays, net:			
Discretionary:			
4000 Budget authority, gross	4,640	4,140	4,187
Outlays, gross:			
4010 Outlays from new discretionary authority	2,964	2,774	2,805

4011	Outlays from discretionary balances	1,535	1,566	1,396
4020	Outlays, gross (total)	4,499	4,340	4,201
	Offsets against gross budget authority and outlays:			
	Offsetting collections (collected) from:			
4033	Non-Federal sources	-3		
	Additional offsets against gross budget authority only:			
4052	Offsetting collections credited to expired accounts	3		
4060	Additional offsets against budget authority only (total)	3		
4070	Budget authority, net (discretionary)	4,640	4,140	4,187
4080	Outlays, net (discretionary)	4,496	4,340	4,201
4180	Budget authority, net (total)	4,640	4,140	4,187
4190	Outlays, net (total)	4,496	4,340	4,201

This appropriation provides for the full costs associated with human-related Low Earth Orbit (LEO) and spaceflight operations activities of the Agency. The full costs include all labor, travel, procurement, test, and fabrication costs associated with the research, development, operations, and other general and administrative activities conducted by the programs within this account. Major themes within the LEO and Spaceflight Operations account include the International Space Station, Space Transportation, Space and Flight Support, and Commercial LEO Development. Performance goals associated with these activities are addressed in NASA's detailed budget request.

The International Space Station (ISS) is a complex of research laboratories in LEO where America and its international partners, including Russia, Canada, Europe, and Japan, conduct unique scientific and technological investigations in a microgravity environment. The objective of the International Space Station is to support human space exploration and conduct science experiments and technology development activities unique to the on-orbit attributes of the facility.

The Space Transportation theme is comprised of the Commercial Crew Program and Crew and Cargo Program, which transport U.S. astronauts and cargo safely back and forth to the ISS and, in the future, to other orbital platforms and destinations. Maintaining the ISS requires a fleet of vehicles and launch locations to transport astronauts, science experiments, supplies, maintenance hardware, and propellant to the ISS, and to dispose of waste generated on the ISS. The Commercial Crew Program partners with two U.S. companies, SpaceX and Boeing, to develop and operate safe, reliable, and affordable crew transportation to LEO. The Crew and Cargo Program purchases cargo transportation services to the ISS through contracts with Northrop Grumman, SpaceX, and Sierra Nevada and purchases crew transportation services from Boeing and SpaceX. Payments to develop and test commercial crew vehicles, and for initial Post Certification Missions for each provider are funded by the Commercial Crew Program, whereas subsequent payments for operational commercial crew missions are funded by the Crew and Cargo Program.

Space and Flight Support is comprised of multiple programs that provide ongoing support for a wide range of services required for safe and successful space mission operations. These programs include Space Communications and Navigation, Communications Services Program, Human Space Flight Operations, Launch Services, and Rocket Propulsion Testing. Services are provided to a wide range of customers including NASA, other U.S. Federal agencies, foreign governments, and industry partners.

Commercial LEO Development supports efforts to expand commercial activities in LEO, with a focus on enabling, developing, and deploying commercial platforms that can be used by NASA and other customers and on supporting the growth of private sector activity in LEO.

Object Classification (in millions of dollars)

Identification code 080-0115-0-1-252	2019 actual	2020 est.	2021 est.
Direct obligations:			
Personnel compensation:			
11.1 Full-time permanent	292	253	256
11.3 Other than full-time permanent	3	3	3
11.5 Other personnel compensation	2	2	2
11.9 Total personnel compensation	297	258	261
12.1 Civilian personnel benefits	95	82	83

21.0	Travel and transportation of persons	15	13	13
22.0	Transportation of things	1,932	1,673	1,692
23.0	Rental payments to others	2	2	2
23.3	Communications, utilities, and miscellaneous charges	10	9	9
25.1	Advisory and assistance services	103	89	90
25.2	Other services from non-Federal sources	175	152	153
25.3	Other goods and services from Federal sources	76	66	67
25.4	Operation and maintenance of facilities	45	39	39
25.5	Research and development contracts	1,674	1,449	1,466
25.7	Operation and maintenance of equipment	274	237	240
26.0	Supplies and materials	18	16	16
31.0	Equipment	15	13	13
32.0	Land and structures	7	6	6
41.0	Grants, subsidies, and contributions	42	36	37
99.9	Total new obligations, unexpired accounts	4,780	4,140	4,187

Employment Summary

Identification code 080-0115-0-1-252	2019 actual	2020 est.	2021 est.
1001 Direct civilian full-time equivalent employment	2,290	2,175	2,155

OFFICE OF INSPECTOR GENERAL

For necessary expenses of the Office of Inspector General in carrying out the Inspector General Act of 1978, **[\$41,700,000]** *\$44,200,000*, [of which \$500,000 shall] to remain available until September 30, **[2021]** 2022. (*Science Appropriations Act, 2020.*)

Program and Financing (in millions of dollars)

Identification code 080-0109-0-1-252	2019 actual	2020 est.	2021 est.
Obligations by program activity:			
0001 Office of Inspector General (Direct)	39	42	43
0801 Office of Inspector General (Reimbursable)	1	2	2
0900 Total new obligations, unexpired accounts	40	44	45
Budgetary resources:			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1	1		
Budget authority:			
Appropriations, discretionary:			
1100 Appropriation	39	42	44
Spending authority from offsetting collections, discretionary:			
1700 Collected	1	2	2
1900 Budget authority (total)	40	44	46
1930 Total budgetary resources available	41	44	46
Memorandum (non-add) entries:			
1940 Unobligated balance expiring	-1		
1941 Unexpired unobligated balance, end of year			1
Change in obligated balance:			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1	5	7	7
3010 New obligations, unexpired accounts	40	44	45
3011 Obligations ("upward adjustments"), expired accounts	1		
3020 Outlays (gross)	-38	-44	-45
3041 Recoveries of prior year unpaid obligations, expired	-1		
3050 Unpaid obligations, end of year	7	7	7
Memorandum (non-add) entries:			
3100 Obligated balance, start of year	5	7	7
3200 Obligated balance, end of year	7	7	7
Budget authority and outlays, net:			
Discretionary:			
4000 Budget authority, gross	40	44	46
Outlays, gross:			
4010 Outlays from new discretionary authority	34	39	40
4011 Outlays from discretionary balances	4	5	5
4020 Outlays, gross (total)	38	44	45
Offsets against gross budget authority and outlays:			
Offsetting collections (collected) from:			
4030 Federal sources	-1	-2	-2
4180 Budget authority, net (total)	39	42	44
4190 Outlays, net (total)	37	42	43

This appropriation provides for the operations of the NASA Office of Inspector General. The mission of the Office of Inspector General is to

OFFICE OF INSPECTOR GENERAL—Continued

conduct audits and investigations of agency activities to prevent and detect fraud, waste, abuse, and mismanagement. The Inspector General keeps the NASA Administrator and the Congress informed of problems and deficiencies in agency programs and operations.

Object Classification (in millions of dollars)

Identification code 080-0109-0-1-252	2019 actual	2020 est.	2021 est.
Direct obligations:			
11.1 Personnel compensation: Full-time permanent	22	23	23
12.1 Civilian personnel benefits	9	10	10
21.0 Travel and transportation of persons	1	1	1
25.2 Other services from non-Federal sources	3	4	5
25.3 Other goods and services from Federal sources	1	1	1
25.7 Operation and maintenance of equipment	2	2	2
31.0 Equipment	1	1	1
99.0 Direct obligations	39	42	43
99.0 Reimbursable obligations	1	2	2
99.9 Total new obligations, unexpired accounts	40	44	45

Employment Summary

Identification code 080-0109-0-1-252	2019 actual	2020 est.	2021 est.
1001 Direct civilian full-time equivalent employment	170	184	187
2001 Reimbursable civilian full-time equivalent employment	5	5	5

SCIENCE, AERONAUTICS, AND EXPLORATION

Program and Financing (in millions of dollars)

Identification code 080-0114-0-1-999	2019 actual	2020 est.	2021 est.
Budgetary resources:			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1	1		
1029 Other balances withdrawn to Treasury	-1		
4180 Budget authority, net (total)			
4190 Outlays, net (total)			

HUMAN SPACE FLIGHT

Program and Financing (in millions of dollars)

Identification code 080-0111-0-1-252	2019 actual	2020 est.	2021 est.
Budgetary resources:			
Unobligated balance:			
1021 Recoveries of prior year unpaid obligations	1		
1029 Other balances withdrawn to Treasury	-1		

Change in obligated balance:

Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1	1		
3040 Recoveries of prior year unpaid obligations, unexpired	-1		
Memorandum (non-add) entries:			
3100 Obligated balance, start of year	1		
4180 Budget authority, net (total)			
4190 Outlays, net (total)			

SCIENCE, AERONAUTICS AND TECHNOLOGY

Program and Financing (in millions of dollars)

Identification code 080-0110-0-1-999	2019 actual	2020 est.	2021 est.
Budgetary resources:			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1	1		
1029 Other balances withdrawn to Treasury	-1		

Change in obligated balance:

Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1	1		
3030 Unpaid obligations transferred to other accts [080-0130]	-1		
Memorandum (non-add) entries:			
3100 Obligated balance, start of year	1		
4180 Budget authority, net (total)			
4190 Outlays, net (total)			

MISSION SUPPORT

Program and Financing (in millions of dollars)

Identification code 080-0112-0-1-999	2019 actual	2020 est.	2021 est.
Budgetary resources:			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1	1		
1029 Other balances withdrawn to Treasury	-1		
4180 Budget authority, net (total)			
4190 Outlays, net (total)			

WORKING CAPITAL FUND

Program and Financing (in millions of dollars)

Identification code 080-4546-0-4-252	2019 actual	2020 est.	2021 est.
Obligations by program activity:			
0801 Working Capital Fund (Reimbursable)	482	531	558
Budgetary resources:			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1	14	30	38
1021 Recoveries of prior year unpaid obligations	2	8	8
1050 Unobligated balance (total)	16	38	46
Budget authority:			
Spending authority from offsetting collections, discretionary:			
1700 Collected	496	531	558
1930 Total budgetary resources available	512	569	604
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year	30	38	46

Change in obligated balance:

Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1	195	214	198
3010 New obligations, unexpired accounts	482	531	558
3020 Outlays (gross)	-461	-539	-547
3040 Recoveries of prior year unpaid obligations, unexpired	-2	-8	-8
3050 Unpaid obligations, end of year	214	198	201
Memorandum (non-add) entries:			
3100 Obligated balance, start of year	195	214	198
3200 Obligated balance, end of year	214	198	201

Budget authority and outlays, net:

Discretionary:			
4000 Budget authority, gross	496	531	558
Outlays, gross:			
4010 Outlays from new discretionary authority	272	319	335
4011 Outlays from discretionary balances	189	220	212
4020 Outlays, gross (total)	461	539	547
Offsets against gross budget authority and outlays:			
Offsetting collections (collected) from:			
4030 Federal sources	-476	-496	-496
4033 Non-Federal sources	-20	-35	-62
4040 Offsets against gross budget authority and outlays (total)	-496	-531	-558
4080 Outlays, net (discretionary)	-35	8	-11
4180 Budget authority, net (total)			
4190 Outlays, net (total)	-35	8	-11

The Working Capital Fund provides goods and services on a reimbursable basis. The Fund finances four program activities. The first is the Solutions for Enterprise-wide Procurement program, which finances, on an agency-wide basis, scientific and engineering workstation procurement. The second program is the Information Technology Infrastructure Integration Program

which consolidates and centralizes management of NASA information technology services in the areas of customer service and ordering, web services and technologies, enterprise business and management applications, integrated network/communications services, end user services, and data center services. The third program, NASA's Shared Services Center, performs selected financial management, human resources, information technology, and procurement services for NASA Headquarters and Centers. The last program, the National Center for Critical Information Processing and Storage, provides federal customers collocation services with complete redundancy in the electrical distribution system from the national grid to the rack level.

Object Classification (in millions of dollars)

Identification code 080-4546-0-4-252	2019 actual	2020 est.	2021 est.
Reimbursable obligations:			
11.1 Personnel compensation: Full-time permanent	15	17	19
12.1 Civilian personnel benefits	5	6	6
21.0 Travel and transportation of persons	1	1	1
23.3 Communications, utilities, and miscellaneous charges	7	8	8
25.2 Other services from non-Federal sources	43	48	50
25.3 Other goods and services from Federal sources	1	1	1
25.4 Operation and maintenance of facilities	24	27	28
25.7 Operation and maintenance of equipment	384	421	443
26.0 Supplies and materials	1	1	1
31.0 Equipment	1	1	1
99.9 Total new obligations, unexpired accounts	482	531	558

Employment Summary

Identification code 080-4546-0-4-252	2019 actual	2020 est.	2021 est.
2001 Reimbursable civilian full-time equivalent employment	138	179	179

Trust Funds

SCIENCE, SPACE, AND TECHNOLOGY EDUCATION TRUST FUND

Special and Trust Fund Receipts (in millions of dollars)

Identification code 080-8978-0-7-503	2019 actual	2020 est.	2021 est.
0100 Balance, start of year	16	16	16
Receipts:			
Current law:			
1140 Earnings on Investments, Science, Space and Technology Education Trust Fund		1	1
2000 Total: Balances and receipts	16	17	17
Appropriations:			
Current law:			
2101 Science, Space, and Technology Education Trust Fund	-1	-1	-1
5098 Rounding adjustment	1		
5099 Balance, end of year	16	16	16

Program and Financing (in millions of dollars)

Identification code 080-8978-0-7-503	2019 actual	2020 est.	2021 est.
Obligations by program activity:			
0001 Science, Space, and Technology Education Trust Fund	1	1	1
0900 Total new obligations, unexpired accounts (object class 41.0)	1	1	1
Budgetary resources:			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1	1	1	1
Budget authority:			
Appropriations, mandatory:			
1201 Appropriation (special or trust fund)	1	1	1
1930 Total budgetary resources available	2	2	2
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year	1	1	1
Change in obligated balance:			
Unpaid obligations:			
3010 New obligations, unexpired accounts	1	1	1

3020 Outlays (gross)	-1	-1	-1
Budget authority and outlays, net:			
Mandatory:			
4090 Budget authority, gross	1	1	1
Outlays, gross:			
4100 Outlays from new mandatory authority		1	1
4101 Outlays from mandatory balances	1		
4110 Outlays, gross (total)	1	1	1
4180 Budget authority, net (total)	1	1	1
4190 Outlays, net (total)	1	1	1
Memorandum (non-add) entries:			
5000 Total investments, SOY: Federal securities: Par value	17	16	15
5001 Total investments, EOY: Federal securities: Par value	16	15	14

ADMINISTRATIVE PROVISIONS

(INCLUDING TRANSFERS OF FUNDS)

Funds for any announced prize otherwise authorized shall remain available, without fiscal year limitation, until a prize is claimed or the offer is withdrawn.

Not to exceed 5 percent of any appropriation made available for the current fiscal year for the National Aeronautics and Space Administration in this Act may be transferred between such appropriations, but no such appropriation, except as otherwise specifically provided, shall be increased by more than 10 percent by any such transfers. Any funds transferred to "Construction and Environmental Compliance and Restoration" for construction activities shall not increase that account by more than \$75,300,000, 20 percent. Balances so transferred shall be merged with and available for the same purposes and the same time period as the appropriations to which transferred. Any transfer pursuant to this provision shall be treated as a reprogramming of funds under section 505 504 of this Act and shall not be available for obligation except in compliance with the procedures set forth in that section.

Not to exceed 5 percent of any appropriation provided for the National Aeronautics and Space Administration under previous appropriations Acts that remains available for obligation or expenditure in fiscal year 2020 2021 may be transferred between such appropriations, but no such appropriation, except as otherwise specifically provided, shall be increased by more than 10 percent by any such transfers. Any transfer pursuant to this provision shall retain its original availability and shall be treated as a reprogramming of funds under section 505 504 of this Act and shall not be available for obligation except in compliance with the procedures set forth in that section.

Notwithstanding the limitations in the preceding two paragraphs, upon the determination of the Administrator that such action is necessary in support of establishment of a United States strategic presence on the Moon, the Administrator may transfer funds between Deep Space Exploration Systems and LEO and Spaceflight Operations appropriations available to the National Aeronautics and Space Administration, including funds appropriated in prior Acts that remain available for obligation or expenditure, to be merged with and to be available for the same purposes as the appropriation to which transferred. Any transfer pursuant to this provision shall be treated as a reprogramming of funds under section 504 of this Act and shall not be available for obligation except in compliance with the procedures set forth in that section.

The spending plan required by this Act shall be provided by NASA at the theme [.] and program [.] level. The spending plan, as well as any subsequent change of an amount established in that spending plan that meets the notification requirements of section 505 504 of this Act, shall be treated as a reprogramming under section 505 504 of this Act and shall not be available for obligation or expenditure except in compliance with the procedures set forth in that section.

Not more than 40 percent of the amounts made available in this Act for the Gateway; Advanced Cislunar and Surface Capabilities; Commercial LEO Development; and Lunar Discovery and Exploration, excluding the Lunar Reconnaissance Orbiter, may be obligated until the Administrator submits a multi-year plan to the Committees on Appropriations of the House of Representatives and the Senate that identifies estimated dates, by fiscal year, for Space Launch System flights to build the Gateway; the commencement of partnerships with commercial entities for additional LEO missions to land humans and rovers on the Moon; and conducting additional scientific activities on the Moon. The multi-year plan shall include key milestones to be met by fiscal year to achieve goals for each of the lunar programs de-

scribed in the previous sentence and funding required by fiscal year to achieve such milestones.】 (Science Appropriations Act, 2020.)

GENERAL FUND RECEIPT ACCOUNTS

(in millions of dollars)

	2019 actual	2020 est.	2021 est.
Offsetting receipts from the public:			
080-322000 All Other General Fund Proprietary Receipts Including Budget Clearing Accounts	2	4	4

General Fund Offsetting receipts from the public	2	4	4
Intragovernmental payments:			
080-388500 Undistributed Intragovernmental Payments and Receivables from Cancelled Accounts	1	2	2
General Fund Intragovernmental payments	1	2	2