

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, \$6,303,700,000, to remain available until September 30, 2021.

Note.—A full-year 2019 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Continuing Appropriations Act, 2019 (Division C of P.L. 115–245, as amended). The amounts included for 2019 reflect the annualized level provided by the continuing resolution.

Program and Financing (in millions of dollars)

Identification code 080–0120–0–1–252	2018 actual	2019 est.	2020 est.
Obligations by program activity:			
0001 Science	6,140	6,222	6,304
Budgetary resources:			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1	298	400	455
1021 Recoveries of prior year unpaid obligations	30	55	55
1050 Unobligated balance (total)	328	455	510
Budget authority:			
Appropriations, discretionary:			
1100 Appropriation	6,222	6,222	6,304
1120 Appropriations transferred to other accts Space Ops [080–0115]	–5		
1120 Appropriations transferred to other acct Aeronautics [080–0126]	–5		
1160 Appropriation, discretionary (total)	6,212	6,222	6,304
1930 Total budgetary resources available	6,540	6,677	6,814
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year	400	455	510
Change in obligated balance:			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1	3,858	4,083	4,023
3010 New obligations, unexpired accounts	6,140	6,222	6,304
3011 Obligations ("upward adjustments"), expired accounts	14		
3020 Outlays (gross)	–5,847	–6,227	–6,316
3040 Recoveries of prior year unpaid obligations, unexpired	–30	–55	–55
3041 Recoveries of prior year unpaid obligations, expired	–52		
3050 Unpaid obligations, end of year	4,083	4,023	3,956
Memorandum (non-add) entries:			
3100 Obligated balance, start of year	3,858	4,083	4,023
3200 Obligated balance, end of year	4,083	4,023	3,956
Budget authority and outlays, net:			
Discretionary:			
4000 Budget authority, gross	6,212	6,222	6,304
Outlays, gross:			
4010 Outlays from new discretionary authority	2,387	2,489	2,522
4011 Outlays from discretionary balances	3,460	3,738	3,794
4020 Outlays, gross (total)	5,847	6,227	6,316
4180 Budget authority, net (total)	6,212	6,222	6,304
4190 Outlays, net (total)	5,847	6,227	6,316

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.

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	2018 actual	2019 est.	2020 est.
Direct obligations:			
Personnel compensation:			
11.1 Full-time permanent	243	246	249
11.3 Other than full-time permanent	3	3	3
11.5 Other personnel compensation	1	1	1
11.9 Total personnel compensation	247	250	253
12.1 Civilian personnel benefits	78	79	80
21.0 Travel and transportation of persons	25	25	26
22.0 Transportation of things	7	7	7
23.2 Rental payments to others	3	3	3
23.3 Communications, utilities, and miscellaneous charges	5	5	5
24.0 Printing and reproduction	1	1	1
25.1 Advisory and assistance services	76	77	78
25.2 Other services from non-Federal sources	206	209	212
25.3 Other goods and services from Federal sources	217	220	223
25.4 Operation and maintenance of facilities	18	18	18
25.5 Research and development contracts	4,299	4,357	4,414
25.7 Operation and maintenance of equipment	113	115	116
26.0 Supplies and materials	29	29	30
31.0 Equipment	44	45	45
32.0 Land and structures	2	2	2
41.0 Grants, subsidies, and contributions	770	780	791
99.9 Total new obligations, unexpired accounts	6,140	6,222	6,304

Employment Summary

Identification code 080–0120–0–1–252	2018 actual	2019 est.	2020 est.
1001 Direct civilian full-time equivalent employment	1,875	1,876	1,864

AERONAUTICS

For necessary expenses, not otherwise provided for, in the conduct and support of aeronautics 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, \$666,900,000, to remain available until September 30, 2021.

Note.—A full-year 2019 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Continuing Appropriations Act, 2019 (Division C of P.L. 115–245, as amended). The amounts included for 2019 reflect the annualized level provided by the continuing resolution.

Program and Financing (in millions of dollars)

Identification code 080–0126–0–1–402	2018 actual	2019 est.	2020 est.
Obligations by program activity:			
0001 Aeronautics	684	685	667
Budgetary resources:			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1	13	25	35

AERONAUTICS—Continued
Program and Financing—Continued

Identification code 080–0126–0–1–402	2018 actual	2019 est.	2020 est.
1021 Recoveries of prior year unpaid obligations	6	10	10
1050 Unobligated balance (total)	19	35	45
Budget authority:			
Appropriations, discretionary:			
1100 Appropriation	685	685	667
1121 Appropriations transferred from other acct Science [080–0120]	5		
1160 Appropriation, discretionary (total)	690	685	667
1930 Total budgetary resources available	709	720	712
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year	25	35	45
Change in obligated balance:			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1	368	394	366
3010 New obligations, unexpired accounts	684	685	667
3011 Obligations ("upward adjustments"), expired accounts	1		
3020 Outlays (gross)	–650	–703	–693
3040 Recoveries of prior year unpaid obligations, unexpired	–6	–10	–10
3041 Recoveries of prior year unpaid obligations, expired	–3		
3050 Unpaid obligations, end of year	394	366	330
Memorandum (non-add) entries:			
3100 Obligated balance, start of year	368	394	366
3200 Obligated balance, end of year	394	366	330
Budget authority and outlays, net:			
Discretionary:			
4000 Budget authority, gross	690	685	667
Outlays, gross:			
4010 Outlays from new discretionary authority	359	342	334
4011 Outlays from discretionary balances	291	361	359
4020 Outlays, gross (total)	650	703	693
4180 Budget authority, net (total)	690	685	667
4190 Outlays, net (total)	650	703	693

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, and Transformative Aeronautics Concepts. Full costs of these programs cover all of the research; development; operations; salaries and related expenses; and other general and administrative activities required to execute the programs. Costs include labor, travel, procurement, 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 080–0126–0–1–402	2018 actual	2019 est.	2020 est.
Direct obligations:			
Personnel compensation:			
11.1 Full-time permanent	162	162	158
11.3 Other than full-time permanent	3	3	3
11.9 Total personnel compensation	165	165	161
12.1 Civilian personnel benefits	52	52	51
21.0 Travel and transportation of persons	7	7	7
23.3 Communications, utilities, and miscellaneous charges	3	3	3
25.1 Advisory and assistance services	10	10	10
25.2 Other services from non-Federal sources	26	26	25
25.3 Other goods and services from Federal sources	8	8	8
25.4 Operation and maintenance of facilities	24	24	23
25.5 Research and development contracts	252	253	245
25.7 Operation and maintenance of equipment	39	39	38
26.0 Supplies and materials	20	20	20
31.0 Equipment	26	26	25
32.0 Land and structures	1	1	1
41.0 Grants, subsidies, and contributions	51	51	50
99.9 Total new obligations, unexpired accounts	684	685	667

Employment Summary

Identification code 080–0126–0–1–402	2018 actual	2019 est.	2020 est.
1001 Direct civilian full-time equivalent employment	1,385	1,350	1,172

EXPLORATION TECHNOLOGY

For necessary expenses, not otherwise provided for, in the conduct and support of space exploration technology 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, \$1,014,300,000, to remain available until September 30, 2021.

Note.—A full-year 2019 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Continuing Appropriations Act, 2019 (Division C of P.L. 115–245, as amended). The amounts included for 2019 reflect the annualized level provided by the continuing resolution.

Program and Financing (in millions of dollars)

Identification code 080–0131–0–1–252	2018 actual	2019 est.	2020 est.
Obligations by program activity:			
0001 Exploration Technology	771	760	1,014
Budgetary resources:			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1	42	40	54
1021 Recoveries of prior year unpaid obligations	9	14	14
1050 Unobligated balance (total)	51	54	68
Budget authority:			
Appropriations, discretionary:			
1100 Appropriation	760	760	1,014
1930 Total budgetary resources available	811	814	1,082
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year	40	54	68
Change in obligated balance:			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1	501	528	568
3010 New obligations, unexpired accounts	771	760	1,014
3011 Obligations ("upward adjustments"), expired accounts	1		
3020 Outlays (gross)	–733	–706	–863
3040 Recoveries of prior year unpaid obligations, unexpired	–9	–14	–14
3041 Recoveries of prior year unpaid obligations, expired	–3		
3050 Unpaid obligations, end of year	528	568	705
Memorandum (non-add) entries:			
3100 Obligated balance, start of year	501	528	568
3200 Obligated balance, end of year	528	568	705

Budget authority and outlays, net:

Discretionary:			
4000 Budget authority, gross	760	760	1,014
Outlays, gross:			
4010 Outlays from new discretionary authority	321	266	355
4011 Outlays from discretionary balances	412	440	508
4020 Outlays, gross (total)	733	706	863
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)	760	760	1,014
4080 Outlays, net (discretionary)	732	706	863
4180 Budget authority, net (total)	760	760	1,014
4190 Outlays, net (total)	732	706	863

The FY 2020 President's Budget renames the Space Technology account as Exploration Technology to better reflect the new focus of this account on supporting the Exploration Campaign.

The Exploration Technology appropriation provides for the costs associated with the research and technology development needed for space ex-

ploration. 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 Exploration Technology 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	2018 actual	2019 est.	2020 est.
Direct obligations:			
Personnel compensation:			
11.1 Full-time permanent	86	85	90
11.3 Other than full-time permanent	2	2	3
11.9 Total personnel compensation	88	87	93
12.1 Civilian personnel benefits	29	29	38
21.0 Travel and transportation of persons	5	5	7
22.0 Transportation of things	1	1	1
25.1 Advisory and assistance services	24	24	32
25.2 Other services from non-Federal sources	35	35	46
25.3 Other goods and services from Federal sources	20	20	26
25.4 Operation and maintenance of facilities	6	6	8
25.5 Research and development contracts	480	471	654
25.7 Operation and maintenance of equipment	14	14	18
26.0 Supplies and materials	9	9	12
31.0 Equipment	8	8	11
41.0 Grants, subsidies, and contributions	52	51	68
99.9 Total new obligations, unexpired accounts	771	760	1,014

Employment Summary

Identification code 080–0131–0–1–252	2018 actual	2019 est.	2020 est.
1001 Direct civilian full-time equivalent employment	714	732	672

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, production, and 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, \$5,021,700,000, to remain available until September 30, 2021.

Note.—A full-year 2019 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Continuing Appropriations Act, 2019 (Division C of P.L. 115–245, as amended). The amounts included for 2019 reflect the annualized level provided by the continuing resolution.

Program and Financing (in millions of dollars)

Identification code 080–0124–0–1–252	2018 actual	2019 est.	2020 est.
Obligations by program activity:			
0001 Deep Space Exploration Systems	4,482	4,790	5,022
Budgetary resources:			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1	81	416	516
1021 Recoveries of prior year unpaid obligations	27	100	100
1050 Unobligated balance (total)	108	516	616

Budget authority:			
Appropriations, discretionary:			
1100 Appropriation	4,790	4,790	5,022
1930 Total budgetary resources available	4,898	5,306	5,638
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year	416	516	616

Change in obligated balance:

Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1	1,403	1,375	1,224
3010 New obligations, unexpired accounts	4,482	4,790	5,022
3011 Obligations ("upward adjustments"), expired accounts	2		
3020 Outlays (gross)	-4,481	-4,841	-5,057
3040 Recoveries of prior year unpaid obligations, unexpired	-27	-100	-100
3041 Recoveries of prior year unpaid obligations, expired	-4		
3050 Unpaid obligations, end of year	1,375	1,224	1,089
Memorandum (non-add) entries:			
3100 Obligated balance, start of year	1,403	1,375	1,224
3200 Obligated balance, end of year	1,375	1,224	1,089

Budget authority and outlays, net:

Discretionary:			
4000 Budget authority, gross	4,790	4,790	5,022
Outlays, gross:			
4010 Outlays from new discretionary authority	3,047	3,209	3,365
4011 Outlays from discretionary balances	1,434	1,632	1,692
4020 Outlays, gross (total)	4,481	4,841	5,057
4180 Budget authority, net (total)	4,790	4,790	5,022
4190 Outlays, net (total)	4,481	4,841	5,057

The FY 2020 President's 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 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 Space Capabilities, and the Human Research Program.

Object Classification (in millions of dollars)

Identification code 080–0124–0–1–252	2018 actual	2019 est.	2020 est.
Direct obligations:			
Personnel compensation:			
11.1 Full-time permanent	330	353	370
11.3 Other than full-time permanent	2	2	2
11.5 Other personnel compensation	2	2	2
11.8 Special personal services payments	1	1	1
11.9 Total personnel compensation	335	358	375
12.1 Civilian personnel benefits	109	116	122
21.0 Travel and transportation of persons	14	15	16
22.0 Transportation of things	1	1	1
23.3 Communications, utilities, and miscellaneous charges	26	28	29
25.1 Advisory and assistance services	354	378	397
25.2 Other services from non-Federal sources	47	50	53
25.3 Other goods and services from Federal sources	51	55	57
25.4 Operation and maintenance of facilities	118	126	132
25.5 Research and development contracts	3,155	3,372	3,536
25.7 Operation and maintenance of equipment	113	121	127
26.0 Supplies and materials	29	31	32
31.0 Equipment	37	40	41
32.0 Land and structures	45	48	50
41.0 Grants, subsidies, and contributions	48	51	54

DEEP SPACE EXPLORATION SYSTEMS—Continued

Object Classification—Continued

Identification code 080–0124–0–1–252	2018 actual	2019 est.	2020 est.
99.9 Total new obligations, unexpired accounts	4,482	4,790	5,022

Employment Summary

Identification code 080–0124–0–1–252	2018 actual	2019 est.	2020 est.
1001 Direct civilian full-time equivalent employment	2,750	2,629	2,758

SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS ENGAGEMENT

Unobligated balances previously appropriated under this heading or the heading "Education" 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.

Note.—A full-year 2019 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Continuing Appropriations Act, 2019 (Division C of P.L. 115–245, as amended). The amounts included for 2019 reflect the annualized level provided by the continuing resolution.

Program and Financing (in millions of dollars)

Identification code 080–0128–0–1–252	2018 actual	2019 est.	2020 est.
Obligations by program activity:			
0001 STEM Engagement	102	100	.....
Budgetary resources:			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1	8	7	12
1021 Recoveries of prior year unpaid obligations	1	5	5
1050 Unobligated balance (total)	9	12	17
Budget authority:			
Appropriations, discretionary:			
1100 Appropriation	100	100	.....
1930 Total budgetary resources available	109	112	17
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year	7	12	17
Change in obligated balance:			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1	157	147	116
3010 New obligations, unexpired accounts	102	100	.....
3011 Obligations ("upward adjustments"), expired accounts	3	.....	.....
3020 Outlays (gross)	–112	–126	–69
3040 Recoveries of prior year unpaid obligations, unexpired	–1	–5	–5
3041 Recoveries of prior year unpaid obligations, expired	–2	.....	.....
3050 Unpaid obligations, end of year	147	116	42
Memorandum (non-add) entries:			
3100 Obligated balance, start of year	157	147	116
3200 Obligated balance, end of year	147	116	42
Budget authority and outlays, net:			
Discretionary:			
4000 Budget authority, gross	100	100	.....
Outlays, gross:			
4010 Outlays from new discretionary authority	11	10	.....
4011 Outlays from discretionary balances	101	116	69
4020 Outlays, gross (total)	112	126	69
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	.....	.....
4070 Budget authority, net (discretionary)	100	100	.....
4080 Outlays, net (discretionary)	109	126	69
4180 Budget authority, net (total)	100	100	.....
4190 Outlays, net (total)	109	126	69

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

under this heading or the heading "Education" may be used to support close-out costs. Moving forward, a small team at NASA headquarters funded out of Agency Management and Operations 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	2018 actual	2019 est.	2020 est.
11.1 Direct obligations: Personnel compensation: Full-time permanent	4	4	.....
11.9 Total personnel compensation	4	4	.....
12.1 Civilian personnel benefits	1	1	.....
25.1 Advisory and assistance services	4	4	.....
25.2 Other services from non-Federal sources	4	4	.....
25.5 Research and development contracts	3	3	.....
25.7 Operation and maintenance of equipment	5	5	.....
41.0 Grants, subsidies, and contributions	81	79	.....
99.9 Total new obligations, unexpired accounts	102	100	.....

Employment Summary

Identification code 080–0128–0–1–252	2018 actual	2019 est.	2020 est.
1001 Direct civilian full-time equivalent employment	34	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, \$3,084,600,000, to remain available until September 30, 2021.

Note.—A full-year 2019 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Continuing Appropriations Act, 2019 (Division C of P.L. 115–245, as amended). The amounts included for 2019 reflect the annualized level provided by the continuing resolution.

Program and Financing (in millions of dollars)

Identification code 080–0122–0–1–252	2018 actual	2019 est.	2020 est.
Obligations by program activity:			
0001 Safety, Security and Mission Services	2,835	2,827	3,085
0801 Cross Agency Support (Reimbursable)	2,458	2,546	2,355
0900 Total new obligations, unexpired accounts	5,293	5,373	5,440
Budgetary resources:			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1	451	551	647
1020 Adjustment of unobligated bal brought forward, Oct 1	–133	.....	.....
1021 Recoveries of prior year unpaid obligations	36	96	96
1033 Recoveries of prior year paid obligations	7	.....	.....
1050 Unobligated balance (total)	361	647	743
Budget authority:			
Appropriations, discretionary:			
1100 Appropriation	2,827	2,827	3,085
Spending authority from offsetting collections, discretionary:			
1700 Collected	2,090	2,546	2,355
1701 Change in uncollected payments, Federal sources	566	.....	.....
1750 Spending auth from offsetting collections, disc (total)	2,656	2,546	2,355
1900 Budget authority (total)	5,483	5,373	5,440
1930 Total budgetary resources available	5,844	6,020	6,183
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year	551	647	743

Change in obligated balance:				
Unpaid obligations:				
3000	Unpaid obligations, brought forward, Oct 1	2,185	2,420	2,222
3010	New obligations, unexpired accounts	5,293	5,373	5,440
3011	Obligations ("upward adjustments"), expired accounts	25		
3020	Outlays (gross)	-5,027	-5,475	-5,612
3040	Recoveries of prior year unpaid obligations, unexpired	-36	-96	-96
3041	Recoveries of prior year unpaid obligations, expired	-20		
3050	Unpaid obligations, end of year	2,420	2,222	1,954
Uncollected payments:				
3060	Uncollected pymts, Fed sources, brought forward, Oct 1	-1,613	-1,882	-1,882
3061	Adjustments to uncollected pymts, Fed sources, brought forward, Oct 1	133		
3070	Change in uncollected pymts, Fed sources, unexpired	-566		
3071	Change in uncollected pymts, Fed sources, expired	164		
3090	Uncollected pymts, Fed sources, end of year	-1,882	-1,882	-1,882
Memorandum (non-add) entries:				
3100	Obligated balance, start of year	705	538	340
3200	Obligated balance, end of year	538	340	72

Budget authority and outlays, net:				
Discretionary:				
4000	Budget authority, gross	5,483	5,373	5,440
Outlays, gross:				
4010	Outlays from new discretionary authority	2,976	3,128	3,269
4011	Outlays from discretionary balances	2,051	2,347	2,343
4020	Outlays, gross (total)	5,027	5,475	5,612
Offsets against gross budget authority and outlays:				
Offsetting collections (collected) from:				
4030	Federal sources	-2,052	-2,256	-2,094
4033	Non-Federal sources	-216	-290	-261
4040	Offsets against gross budget authority and outlays (total)	-2,268	-2,546	-2,355
Additional offsets against gross budget authority only:				
4050	Change in uncollected pymts, Fed sources, unexpired	-566		
4052	Offsetting collections credited to expired accounts	171		
4053	Recoveries of prior year paid obligations, unexpired accounts	7		
4060	Additional offsets against budget authority only (total)	-388		
4070	Budget authority, net (discretionary)	2,827	2,827	3,085
4080	Outlays, net (discretionary)	2,759	2,929	3,257
4180	Budget authority, net (total)	2,827	2,827	3,085
4190	Outlays, net (total)	2,759	2,929	3,257

Safety, Security, and Mission Services (SSMS) manages agency-wide mission support functions and some of NASA's unique 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.

Under SSMS, Center Management and Operations includes the basic costs to manage and operate each of the nine NASA field centers and to maintain the technical capabilities required to support the Agency's Mission. The SSMS budget is not directly allocated or aligned to specific program or project requirements, but is centralized for efficient and effective administration and operation of the NASA Centers.

Under SSMS, Agency Management and Operations provides for the management and oversight of corporate programs, the performance of agency-wide activities and functions, and the maintenance of unique research capabilities and facilities. Responsibilities include budget formulation and execution; establishment of management policies, procedures, and performance criteria; evaluation of progress; and coordination and integration of the Agency's activities.

Object Classification (in millions of dollars)

Identification code 080-0122-0-1-252	2018 actual	2019 est.	2020 est.	
Direct obligations:				
Personnel compensation:				
11.1	Full-time permanent	884	881	961
11.3	Other than full-time permanent	18	18	20
11.5	Other personnel compensation	33	33	36
11.9	Total personnel compensation	935	932	1,017
12.1	Civilian personnel benefits	286	285	311
13.0	Benefits for former personnel	1	1	1
21.0	Travel and transportation of persons	23	23	25
22.0	Transportation of things	2	2	2

23.2	Rental payments to others	39	39	42
23.3	Communications, utilities, and miscellaneous charges	77	77	84
24.0	Printing and reproduction	3	3	3
25.1	Advisory and assistance services	253	252	275
25.2	Other services from non-Federal sources	232	231	252
25.3	Other goods and services from Federal sources	61	61	66
25.4	Operation and maintenance of facilities	249	248	272
25.5	Research and development contracts	169	168	184
25.6	Medical care	8	8	9
25.7	Operation and maintenance of equipment	399	397	434
26.0	Supplies and materials	22	22	24
31.0	Equipment	38	38	41
32.0	Land and structures	17	17	18
41.0	Grants, subsidies, and contributions	23	23	25
99.0	Direct obligations	2,837	2,827	3,085
99.0	Reimbursable obligations	2,456	2,546	2,355
99.9	Total new obligations, unexpired accounts	5,293	5,373	5,440

Employment Summary

Identification code 080-0122-0-1-252		2018 actual	2019 est.	2020 est.
1001	Direct civilian full-time equivalent employment	5,692	7,668	7,858
2001	Reimbursable civilian full-time equivalent employment	1,832	284	299

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, \$600,400,000, to remain available until September 30, 2025: 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 in an amount not to exceed \$14,900,000: Provided further, That each annual budget request shall include an annual estimate of gross receipts and collections and proposed use of all funds collected pursuant to section 20145 of title 51, United States Code.

Note.—A full-year 2019 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Continuing Appropriations Act, 2019 (Division C of P.L. 115-245, as amended). The amounts included for 2019 reflect the annualized level provided by the continuing resolution.

Program and Financing (in millions of dollars)

Identification code 080-0130-0-1-252		2018 actual	2019 est.	2020 est.
Obligations by program activity:				
0001	Construction and Environmental Compliance and Restoration (Direct)	575	562	600
0801	Construction and Environmental Compliance and Restoration (Reimbursable)	7	25	21
0900	Total new obligations, unexpired accounts	582	587	621
Budgetary resources:				
Unobligated balance:				
1000	Unobligated balance brought forward, Oct 1	269	370	445
1021	Recoveries of prior year unpaid obligations	25	75	75
1050	Unobligated balance (total)	294	445	520
Budget authority:				
Appropriations, discretionary:				
1100	Appropriation	644	562	600
1121	Appropriations transferred from other acct Space Operations [080-0115]	7		
1160	Appropriation, discretionary (total)	651	562	600
Spending authority from offsetting collections, discretionary:				
1700	Collected	7	25	21
1900	Budget authority (total)	658	587	621
1930	Total budgetary resources available	952	1,032	1,141
Memorandum (non-add) entries:				
1941	Unexpired unobligated balance, end of year	370	445	520
Change in obligated balance:				
Unpaid obligations:				
3000	Unpaid obligations, brought forward, Oct 1	658	783	615
3010	New obligations, unexpired accounts	582	587	621

CONSTRUCTION AND ENVIRONMENTAL COMPLIANCE AND RESTORATION—Continued

Program and Financing—Continued

Identification code 080–0130–0–1–252		2018 actual	2019 est.	2020 est.
3020	Outlays (gross)	–432	–680	–574
3040	Recoveries of prior year unpaid obligations, unexpired	–25	–75	–75
3050	Unpaid obligations, end of year	783	615	587
Memorandum (non-add) entries:				
3100	Obligated balance, start of year	658	783	615
3200	Obligated balance, end of year	783	615	587
Budget authority and outlays, net:				
Discretionary:				
4000	Budget authority, gross	658	587	621
Outlays, gross:				
4010	Outlays from new discretionary authority	46	115	39
4011	Outlays from discretionary balances	386	565	535
4020	Outlays, gross (total)	432	680	574
Offsets against gross budget authority and outlays:				
Offsetting collections (collected) from:				
4033	Non-Federal sources	–7	–25	–21
4180	Budget authority, net (total)	651	562	600
4190	Outlays, net (total)	425	655	553

This appropriation provides for NASA's construction and environmental compliance and restoration activities, and makes available to use 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		2018 actual	2019 est.	2020 est.
Direct obligations:				
23.3	Communications, utilities, and miscellaneous charges	1	1	1
25.1	Advisory and assistance services	28	27	29
25.2	Other services from non-Federal sources	69	67	72
25.3	Other goods and services from Federal sources	30	29	31
25.4	Operation and maintenance of facilities	69	69	72
25.5	Research and development contracts	37	36	39
25.7	Operation and maintenance of equipment	29	28	30
31.0	Equipment	1	1	1
32.0	Land and structures	312	304	325
99.0	Direct obligations	576	562	600
99.0	Reimbursable obligations	6	25	21
99.9	Total new obligations, unexpired accounts	582	587	621

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, \$4,285,700,000, to remain available until September 30, 2021.

Note.—A full-year 2019 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Continuing Appropriations Act, 2019 (Division C of P.L. 115–245, as amended). The amounts included for 2019 reflect the annualized level provided by the continuing resolution.

Program and Financing (in millions of dollars)

Identification code 080–0115–0–1–252		2018 actual	2019 est.	2020 est.
Obligations by program activity:				
0001	LEO and Spaceflight Operations	4,779	4,752	4,286
Budgetary resources:				
Unobligated balance:				
1000	Unobligated balance brought forward, Oct 1	91	118	251
1021	Recoveries of prior year unpaid obligations	56	133	133
1050	Unobligated balance (total)	147	251	384
Budget authority:				
Appropriations, discretionary:				
1100	Appropriation	4,752	4,752	4,286
1120	Appropriations transferred to other accts CECR [080–0130]	–7	.....	.....
1121	Appropriations transferred from other acct Science [080–0120]	5	.....	.....
1160	Appropriation, discretionary (total)	4,750	4,752	4,286
1900	Budget authority (total)	4,750	4,752	4,286
1930	Total budgetary resources available	4,897	5,003	4,670
Memorandum (non-add) entries:				
1941	Unexpired unobligated balance, end of year	118	251	384
Change in obligated balance:				
Unpaid obligations:				
3000	Unpaid obligations, brought forward, Oct 1	2,432	2,426	2,298
3010	New obligations, unexpired accounts	4,779	4,752	4,286
3011	Obligations ("upward adjustments"), expired accounts	6	.....	.....
3020	Outlays (gross)	–4,729	–4,747	–5,016
3040	Recoveries of prior year unpaid obligations, unexpired	–56	–133	–133
3041	Recoveries of prior year unpaid obligations, expired	–6	.....	.....
3050	Unpaid obligations, end of year	2,426	2,298	1,435
Memorandum (non-add) entries:				
3100	Obligated balance, start of year	2,432	2,426	2,298
3200	Obligated balance, end of year	2,426	2,298	1,435
Budget authority and outlays, net:				
Discretionary:				
4000	Budget authority, gross	4,750	4,752	4,286
Outlays, gross:				
4010	Outlays from new discretionary authority	2,920	2,946	2,657
4011	Outlays from discretionary balances	1,809	1,801	2,359
4020	Outlays, gross (total)	4,729	4,747	5,016
4180	Budget authority, net (total)	4,750	4,752	4,286
4190	Outlays, net (total)	4,729	4,747	5,016

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 to execute these programs, which provide for all of the research, development, operations, salaries and related expenses, and other general and administrative activities supporting 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 unique to the on-orbit attributes of the facility.

Space Transportation's objective is to transport U.S. astronauts and cargo safely back and forth to the ISS and, in the future, to other orbital platforms and destinations. This theme includes the Commercial Crew Program and Crew and Cargo Program. Maintaining the ISS requires a fleet of vehicles and launch locations to transport astronauts, science experiments, critical 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 to the ISS under commercial resupply services contracts with Northrop Grumman, SpaceX, and Sierra Nevada and purchases crew transportation from Boeing, and SpaceX. Payments to develop and test commercial crew vehicles, and for initial Post Certification Missions (PCMs) 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 will support 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.

Object Classification (in millions of dollars)

Identification code 080-0115-0-1-252	2018 actual	2019 est.	2020 est.
Direct obligations:			
Personnel compensation:			
11.1 Full-time permanent	295	293	265
11.3 Other than full-time permanent	2	2	2
11.5 Other personnel compensation	2	2	2
11.9 Total personnel compensation	299	297	269
12.1 Civilian personnel benefits	96	95	86
21.0 Travel and transportation of persons	17	17	15
22.0 Transportation of things	1,654	1,645	1,483
23.2 Rental payments to others	2	2	2
23.3 Communications, utilities, and miscellaneous charges	6	6	5
25.1 Advisory and assistance services	113	112	101
25.2 Other services from non-Federal sources	147	146	132
25.3 Other goods and services from Federal sources	29	29	26
25.4 Operation and maintenance of facilities	60	60	54
25.5 Research and development contracts	2,050	2,038	1,839
25.7 Operation and maintenance of equipment	226	225	203
26.0 Supplies and materials	19	19	17
31.0 Equipment	18	18	16
32.0 Land and structures	6	6	5
41.0 Grants, subsidies, and contributions	37	37	33
99.9 Total new obligations, unexpired accounts	4,779	4,752	4,286

Employment Summary

Identification code 080-0115-0-1-252	2018 actual	2019 est.	2020 est.
1001 Direct civilian full-time equivalent employment	2,367	2,252	2,175

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, to remain available until September 30, 2021.

Note.—A full-year 2019 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Continuing Appropriations Act, 2019 (Division C of P.L. 115-245, as amended). The amounts included for 2019 reflect the annualized level provided by the continuing resolution.

Program and Financing (in millions of dollars)

Identification code 080-0109-0-1-252	2018 actual	2019 est.	2020 est.
Obligations by program activity:			
0001 Office of Inspector General (Direct)	39	39	42
0801 Office of Inspector General (Reimbursable)	1	2	2
0900 Total new obligations, unexpired accounts	40	41	44

Budgetary resources:

Budget authority:			
Appropriations, discretionary:			
1100 Appropriation	39	39	42
Spending authority from offsetting collections, discretionary:			
1700 Collected	1	2	2
1900 Budget authority (total)	40	41	44
1930 Total budgetary resources available	40	41	44

Change in obligated balance:

Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1	4	5	6
3010 New obligations, unexpired accounts	40	41	44
3020 Outlays (gross)	-39	-40	-44
3050 Unpaid obligations, end of year	5	6	6
Memorandum (non-add) entries:			
3100 Obligated balance, start of year	4	5	6
3200 Obligated balance, end of year	5	6	6

Budget authority and outlays, net:

Discretionary:			
4000 Budget authority, gross	40	41	44
Outlays, gross:			
4010 Outlays from new discretionary authority	35	36	39
4011 Outlays from discretionary balances	4	4	5
4020 Outlays, gross (total)	39	40	44
Offsets against gross budget authority and outlays:			
Offsetting collections (collected) from:			
4030 Federal sources	-1	-2	-2
4180 Budget authority, net (total)	39	39	42
4190 Outlays, net (total)	38	38	42

This appropriation provides for the operations of the NASA Office of Inspector General. The mission of the Office of Inspector General is to 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	2018 actual	2019 est.	2020 est.
Direct obligations:			
11.1 Personnel compensation: Full-time permanent	23	24	25
12.1 Civilian personnel benefits	9	9	9
21.0 Travel and transportation of persons	1	1	1
25.2 Other services from non-Federal sources	3	3	4
25.3 Other goods and services from Federal sources	1	1	1
25.7 Operation and maintenance of equipment	1	1	2
99.0 Direct obligations	38	39	42
99.0 Reimbursable obligations	2	2	2
99.9 Total new obligations, unexpired accounts	40	41	44

Employment Summary

Identification code 080-0109-0-1-252	2018 actual	2019 est.	2020 est.
1001 Direct civilian full-time equivalent employment	176	207	207
2001 Reimbursable civilian full-time equivalent employment	6	6	6

SCIENCE, AERONAUTICS, AND EXPLORATION

Program and Financing (in millions of dollars)

Identification code 080-0114-0-1-999	2018 actual	2019 est.	2020 est.
Budgetary resources:			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1	1	1	1
1930 Total budgetary resources available	1	1	1
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year	1	1	1
4180 Budget authority, net (total)			
4190 Outlays, net (total)			

SCIENCE, AERONAUTICS, AND EXPLORATION—Continued

The Science, Aeronautics, and Exploration account shows spending from balances prior to the account restructuring. In FY 2019, consistent with current law, obligated balances will be transferred and merged into Treasury account 80–0130. Unobligated balances will be returned to Treasury and thereafter, this account will be closed.

HUMAN SPACE FLIGHT

Program and Financing (in millions of dollars)

Identification code 080–0111–0–1–252	2018 actual	2019 est.	2020 est.
Change in obligated balance:			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1	2	2	2
3050 Unpaid obligations, end of year	2	2	2
Memorandum (non-add) entries:			
3100 Obligated balance, start of year	2	2	2
3200 Obligated balance, end of year	2	2	2
4180 Budget authority, net (total)			
4190 Outlays, net (total)			

The Human Space Flight account shows spending from balances prior to the account restructuring. In FY 2019, consistent with current law, obligated balances will be transferred and merged into Treasury accounts 80–0122, 80–0115 and 80–0130. Unobligated balances will be returned to Treasury and thereafter, this account will be closed.

SCIENCE, AERONAUTICS AND TECHNOLOGY

Program and Financing (in millions of dollars)

Identification code 080–0110–0–1–999	2018 actual	2019 est.	2020 est.
Budgetary resources:			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1	1	1	1
1930 Total budgetary resources available	1	1	1
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year	1	1	1
Change in obligated balance:			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1	1	1	1
3050 Unpaid obligations, end of year	1	1	1
Memorandum (non-add) entries:			
3100 Obligated balance, start of year	1	1	1
3200 Obligated balance, end of year	1	1	1
4180 Budget authority, net (total)			
4190 Outlays, net (total)			

The Science, Aeronautics, and Technology account shows spending from balances prior to the account restructuring. In FY 2019, consistent with current law, obligated balances will be transferred and merged into Treasury account 80–0130. Unobligated balances will be returned to Treasury and thereafter, this account will be closed.

MISSION SUPPORT

Program and Financing (in millions of dollars)

Identification code 080–0112–0–1–999	2018 actual	2019 est.	2020 est.
Budgetary resources:			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1	1	1	1
1930 Total budgetary resources available	1	1	1
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year	1	1	1
4180 Budget authority, net (total)			
4190 Outlays, net (total)			

The Mission Support account shows spending from residual balances associated with construction of facilities activities prior to 2004. In FY 2019, consistent with current law, obligated balances will be transferred and merged into Treasury accounts 80–0122 and 80–0130. Unobligated balances will be returned to Treasury and thereafter, this account will be closed.

WORKING CAPITAL FUND

Program and Financing (in millions of dollars)

Identification code 080–4546–0–4–252	2018 actual	2019 est.	2020 est.
Obligations by program activity:			
0801 Working Capital Fund (Reimbursable)	449	523	527
Budgetary resources:			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1	14	14	15
1021 Recoveries of prior year unpaid obligations	1	5	5
1050 Unobligated balance (total)	15	19	20
Budget authority:			
Spending authority from offsetting collections, discretionary:			
1700 Collected	448	519	523
1930 Total budgetary resources available	463	538	543
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year	14	15	16
Change in obligated balance:			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1	183	195	198
3010 New obligations, unexpired accounts	449	523	527
3020 Outlays (gross)	–436	–515	–521
3040 Recoveries of prior year unpaid obligations, unexpired	–1	–5	–5
3050 Unpaid obligations, end of year	195	198	199
Memorandum (non-add) entries:			
3100 Obligated balance, start of year	183	195	198
3200 Obligated balance, end of year	195	198	199
Budget authority and outlays, net:			
Discretionary:			
4000 Budget authority, gross	448	519	523
Outlays, gross:			
4010 Outlays from new discretionary authority	250	311	314
4011 Outlays from discretionary balances	186	204	207
4020 Outlays, gross (total)	436	515	521
Offsets against gross budget authority and outlays:			
Offsetting collections (collected) from:			
4030 Federal sources	–430	–494	–496
4033 Non-Federal sources	–18	–25	–27
4040 Offsets against gross budget authority and outlays (total)	–448	–519	–523
4080 Outlays, net (discretionary)	–12	–4	–2
4180 Budget authority, net (total)			
4190 Outlays, net (total)	–12	–4	–2

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 Tier 1 service desk 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 at a Tier III level 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	2018 actual	2019 est.	2020 est.
Reimbursable obligations:			
11.1 Personnel compensation: Full-time permanent	14	14	14
12.1 Civilian personnel benefits	5	5	5
23.3 Communications, utilities, and miscellaneous charges	3	3	3
25.1 Advisory and assistance services	1	1	1
25.2 Other services from non-Federal sources	47	47	47
25.3 Other goods and services from Federal sources	1	1	1
25.4 Operation and maintenance of facilities	14	14	14
25.7 Operation and maintenance of equipment	362	436	440
26.0 Supplies and materials	1	1	1
31.0 Equipment	1	1	1
99.9 Total new obligations, unexpired accounts	449	523	527

Employment Summary

Identification code 080-4546-0-4-252	2018 actual	2019 est.	2020 est.
2001 Reimbursable civilian full-time equivalent employment	142	156	156

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	2018 actual	2019 est.	2020 est.
0100 Balance, start of year	16	16	16
Receipts:			
Current law:			
1140 Earnings on Investments, Science, Space and Technology Education Trust Fund	2	1	1
2000 Total: Balances and receipts	18	17	17
Appropriations:			
Current law:			
2101 Science, Space, and Technology Education Trust Fund	-2	-1	-1
5099 Balance, end of year	16	16	16

Program and Financing (in millions of dollars)

Identification code 080-8978-0-7-503	2018 actual	2019 est.	2020 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	2	2
Budget authority:			
Appropriations, mandatory:			
1201 Appropriation (special or trust fund)	2	1	1
1930 Total budgetary resources available	3	3	3
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year	2	2	2
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	2	1	1
Outlays, gross:			
4100 Outlays from new mandatory authority	1	1	1
4180 Budget authority, net (total)	2	1	1
4190 Outlays, net (total)	1	1	1
Memorandum (non-add) entries:			
5000 Total investments, SOY: Federal securities: Par value	17	17	17
5001 Total investments, EOY: Federal securities: Par value	17	17	17

ADMINISTRATIVE PROVISIONS

(INCLUDING TRANSFERS OF FUNDS)

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

Not to exceed 10 percent of any appropriation made available for the current fiscal year for the National Aeronautics and Space Administration in this Act, or provided for the National Aeronautics and Space Administration under previous appropriations Acts that remain available for obligation or expenditure in fiscal year 2020, 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 such funds transferred to "Construction and Environmental Compliance and Restoration" for construction activities shall not increase that appropriation by more than 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 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 504 of this Act, shall be treated as a reprogramming under section 504 of this Act and shall not be available for obligation or expenditure except in compliance with the procedures set forth in that section.

GENERAL FUND RECEIPT ACCOUNTS

(in millions of dollars)

	2018 actual	2019 est.	2020 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	3	2	2
General Fund Intragovernmental payments	3	2	2

