

# 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, \$5,711,800,000, to remain available until September 30, 2019.

Note.—A full-year 2017 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Continuing Appropriations Act, 2017 (P.L. 114-254). The amounts included for 2017 reflect the annualized level provided by the continuing resolution.

#### Program and Financing (in millions of dollars)

Identification code 080-0120-0-1-252	2016 actual	2017 est.	2018 est.
<b>Obligations by program activity:</b>			
0001 Science (Direct) .....	5,584	5,578	5,712
<b>Budgetary resources:</b>			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1 .....	273	300	300
1021 Recoveries of prior year unpaid obligations .....	27		
1033 Recoveries of prior year paid obligations .....	1		
1050 Unobligated balance (total) .....	301	300	300
Budget authority:			
Appropriations, discretionary:			
1100 Appropriation .....	5,589	5,578	5,712
1120 Appropriations transferred to other accts CECR [080-0130] .....	-5		
1120 Appropriations transferred to other acct SSMS [080-0122] .....	-1		
1160 Appropriation, discretionary (total) .....	5,583	5,578	5,712
1930 Total budgetary resources available .....	5,884	5,878	6,012
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year .....	300	300	300
<b>Change in obligated balance:</b>			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1 .....	3,253	3,622	3,849
3010 New obligations, unexpired accounts .....	5,584	5,578	5,712
3011 Obligations ("upward adjustments"), expired accounts .....	3		
3020 Outlays (gross) .....	-5,175	-5,351	-5,693
3040 Recoveries of prior year unpaid obligations, unexpired .....	-27		
3041 Recoveries of prior year unpaid obligations, expired .....	-16		
3050 Unpaid obligations, end of year .....	3,622	3,849	3,868
Memorandum (non-add) entries:			
3100 Obligated balance, start of year .....	3,253	3,622	3,849
3200 Obligated balance, end of year .....	3,622	3,849	3,868
<b>Budget authority and outlays, net:</b>			
Discretionary:			
4000 Budget authority, gross .....	5,583	5,578	5,712
Outlays, gross:			
4010 Outlays from new discretionary authority .....	2,190	2,345	2,401
4011 Outlays from discretionary balances .....	2,985	3,006	3,292
4020 Outlays, gross (total) .....	5,175	5,351	5,693
Offsets against gross budget authority and outlays:			
Offsetting collections (collected) from:			
4033 Non-Federal sources .....	-1		
Additional offsets against gross budget authority only:			
4053 Recoveries of prior year paid obligations, unexpired accounts .....	1		
4060 Additional offsets against budget authority only (total) .....	1		
4070 Budget authority, net (discretionary) .....	5,583	5,578	5,712
4080 Outlays, net (discretionary) .....	5,174	5,351	5,693
4180 Budget authority, net (total) .....	5,583	5,578	5,712
4190 Outlays, net (total) .....	5,174	5,351	5,693

The Science appropriation provides for NASA's science mission, which is comprised of the agency's Earth and space science programs: Earth Sci-

ence, Planetary Science, Heliophysics, the James Webb Space Telescope, and Astrophysics. These programs, which are managed by the Science Mission Directorate, seek to answer fundamental questions 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.

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	2016 actual	2017 est.	2018 est.
<b>Direct obligations:</b>			
Personnel compensation:			
11.1 Full-time permanent .....	236	236	255
11.3 Other than full-time permanent .....	4	4	4
11.5 Other personnel compensation .....	1	1	2
11.9 Total personnel compensation .....	241	241	261
12.1 Civilian personnel benefits .....	74	74	80
21.0 Travel and transportation of persons .....	21	21	23
22.0 Transportation of things .....	5	5	5
23.2 Rental payments to others .....	6	6	6
23.3 Communications, utilities, and miscellaneous charges .....	4	4	4
24.0 Printing and reproduction .....	1	1	1
25.1 Advisory and assistance services .....	84	84	78
25.2 Other services from non-Federal sources .....	197	197	91
25.3 Other goods and services from Federal sources .....	223	223	222
25.4 Operation and maintenance of facilities .....	9	9	10
25.5 Research and development contracts .....	3,910	3,905	4,059
25.7 Operation and maintenance of equipment .....	94	94	99
26.0 Supplies and materials .....	24	24	29
31.0 Equipment .....	35	35	33
41.0 Grants, subsidies, and contributions .....	656	655	711
99.9 Total new obligations, unexpired accounts .....	5,584	5,578	5,712

#### Employment Summary

Identification code 080-0120-0-1-252	2016 actual	2017 est.	2018 est.
1001 Direct civilian full-time equivalent employment .....	1,897	1,835	1,887

## 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, \$624,000,000, to remain available until September 30, 2019.

Note.—A full-year 2017 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Continuing Appropriations Act, 2017 (P.L. 114-254). The amounts included for 2017 reflect the annualized level provided by the continuing resolution.

AERONAUTICS—Continued  
Program and Financing (in millions of dollars)

Identification code 080-0126-0-1-402	2016 actual	2017 est.	2018 est.
<b>Obligations by program activity:</b>			
0001 Aeronautics (Direct) .....	644	639	624
<b>Budgetary resources:</b>			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1 .....	12	12	12
1021 Recoveries of prior year unpaid obligations .....	10		
1050 Unobligated balance (total) .....	22	12	12
Budget authority:			
Appropriations, discretionary:			
1100 Appropriation .....	640	639	624
1120 Appropriations transferred to other acct [080-0130] .....	-5		
1120 Appropriations transferred to other acct SSMS [080-0122] .....	-1		
1160 Appropriation, discretionary (total) .....	634	639	624
1930 Total budgetary resources available .....	656	651	636
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year .....	12	12	12
<b>Change in obligated balance:</b>			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1 .....	322	345	382
3010 New obligations, unexpired accounts .....	644	639	624
3011 Obligations ("upward adjustments"), expired accounts .....	1		
3020 Outlays (gross) .....	-609	-602	-633
3040 Recoveries of prior year unpaid obligations, unexpired .....	-10		
3041 Recoveries of prior year unpaid obligations, expired .....	-3		
3050 Unpaid obligations, end of year .....	345	382	373
Memorandum (non-add) entries:			
3100 Obligated balance, start of year .....	322	345	382
3200 Obligated balance, end of year .....	345	382	373
<b>Budget authority and outlays, net:</b>			
Discretionary:			
4000 Budget authority, gross .....	634	639	624
Outlays, gross:			
4010 Outlays from new discretionary authority .....	352	313	305
4011 Outlays from discretionary balances .....	257	289	328
4020 Outlays, gross (total) .....	609	602	633
4180 Budget authority, net (total) .....	634	639	624
4190 Outlays, net (total) .....	609	602	633

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	2016 actual	2017 est.	2018 est.
Direct obligations:			
Personnel compensation:			
11.1 Full-time permanent .....	152	152	171
11.3 Other than full-time permanent .....	3	3	3
11.9 Total personnel compensation .....	155	155	174
12.1 Civilian personnel benefits .....	46	47	53
21.0 Travel and transportation of persons .....	7	5	5
22.0 Transportation of things .....	1		
23.3 Communications, utilities, and miscellaneous charges .....	3	5	4
25.1 Advisory and assistance services .....	11	11	11
25.2 Other services from non-Federal sources .....	30	48	39
25.3 Other goods and services from Federal sources .....	8	5	6
25.4 Operation and maintenance of facilities .....	33	26	17
25.5 Research and development contracts .....	223	230	215

25.7 Operation and maintenance of equipment .....	36	37	33
26.0 Supplies and materials .....	14	15	11
31.0 Equipment .....	31	30	25
32.0 Land and structures .....	2	1	1
41.0 Grants, subsidies, and contributions .....	44	24	30
99.9 Total new obligations, unexpired accounts .....	644	639	624

Employment Summary

Identification code 080-0126-0-1-402	2016 actual	2017 est.	2018 est.
1001 Direct civilian full-time equivalent employment .....	1,310	1,345	1,345

SPACE TECHNOLOGY

For necessary expenses, not otherwise provided for, in the conduct and support of space 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, \$678,600,000, to remain available until September 30, 2019.

Note.—A full-year 2017 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Continuing Appropriations Act, 2017 (P.L. 114-254). The amounts included for 2017 reflect the annualized level provided by the continuing resolution.

Program and Financing (in millions of dollars)

Identification code 080-0131-0-1-252	2016 actual	2017 est.	2018 est.
<b>Obligations by program activity:</b>			
0001 Space Technology (Direct) .....	677	686	679
<b>Budgetary resources:</b>			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1 .....	49	71	71
1011 Unobligated balance transfer from other acct SSMS [080-0122] .....	4		
1021 Recoveries of prior year unpaid obligations .....	8		
1050 Unobligated balance (total) .....	61	71	71
Budget authority:			
Appropriations, discretionary:			
1100 Appropriation .....	687	686	679
1930 Total budgetary resources available .....	748	757	750
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year .....	71	71	71
<b>Change in obligated balance:</b>			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1 .....	378	486	498
3010 New obligations, unexpired accounts .....	677	686	679
3011 Obligations ("upward adjustments"), expired accounts .....	1		
3020 Outlays (gross) .....	-560	-674	-684
3040 Recoveries of prior year unpaid obligations, unexpired .....	-8		
3041 Recoveries of prior year unpaid obligations, expired .....	-2		
3050 Unpaid obligations, end of year .....	486	498	493
Memorandum (non-add) entries:			
3100 Obligated balance, start of year .....	378	486	498
3200 Obligated balance, end of year .....	486	498	493
<b>Budget authority and outlays, net:</b>			
Discretionary:			
4000 Budget authority, gross .....	687	686	679
Outlays, gross:			
4010 Outlays from new discretionary authority .....	248	240	238
4011 Outlays from discretionary balances .....	312	434	446
4020 Outlays, gross (total) .....	560	674	684
4180 Budget authority, net (total) .....	687	686	679
4190 Outlays, net (total) .....	560	674	684

This appropriation provides for the full costs associated with program activities under the NASA Space Technology Mission Directorate which conducts research and development in space technologies serving multiple

customers within NASA, private industry, academia, and other government agencies. 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 Space Technology appropriation also supports the operations of the NASA Office of the Chief Technologist.

The programs within Space Technology enable new 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 appropriation funds several programs, including Agency Technology and Innovation, Small Business Innovative Research (SBIR), Small Business Technology Transfer (STTR), and Space Technology Research and Development. 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	2016 actual	2017 est.	2018 est.
<b>Direct obligations:</b>			
<b>Personnel compensation:</b>			
11.1 Full-time permanent .....	83	86	95
11.3 Other than full-time permanent .....	1	1	1
11.9 Total personnel compensation .....	84	87	96
12.1 Civilian personnel benefits .....	27	27	30
21.0 Travel and transportation of persons .....	4	4	5
22.0 Transportation of things .....	1	1	4
25.1 Advisory and assistance services .....	27	27	30
25.2 Other services from non-Federal sources .....	30	30	27
25.3 Other goods and services from Federal sources .....	5	6	9
25.4 Operation and maintenance of facilities .....	2	3	3
25.5 Research and development contracts .....	432	435	404
25.7 Operation and maintenance of equipment .....	18	18	14
26.0 Supplies and materials .....	5	5	7
31.0 Equipment .....	4	4	9
41.0 Grants, subsidies, and contributions .....	38	39	41
99.9 Total new obligations, unexpired accounts .....	677	686	679

**Employment Summary**

Identification code 080-0131-0-1-252	2016 actual	2017 est.	2018 est.
1001 Direct civilian full-time equivalent employment .....	705	722	725

**EXPLORATION**

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 expenses; purchase and hire of passenger motor vehicles; and purchase, lease, charter, maintenance, and operation of mission and administrative aircraft, \$3,934,097,000, to remain available until September 30, 2019.

Note.—A full-year 2017 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Continuing Appropriations Act, 2017 (P.L. 114-254). The amounts included for 2017 reflect the annualized level provided by the continuing resolution.

**Program and Financing** (in millions of dollars)

Identification code 080-0124-0-1-252	2016 actual	2017 est.	2018 est.
<b>Obligations by program activity:</b>			
0001 Exploration (Direct) .....	4,046	4,022	3,934
<b>Budgetary resources:</b>			
<b>Unobligated balance:</b>			
1000 Unobligated balance brought forward, Oct 1 .....	58	43	43
1010 Unobligated balance transfer to other accts CECR [080-0130] .....	-19		

1021 Recoveries of prior year unpaid obligations .....	36		
1050 Unobligated balance (total) .....	75	43	43
<b>Budget authority:</b>			
<b>Appropriations, discretionary:</b>			
1100 Appropriation .....	4,030	4,022	3,934
1120 Appropriations transferred to other acct CECR [080-0130] .....	-18		
1120 Appropriations transferred to other acct SSMS [080-0122] .....	-2		
1121 Appropriations transferred from other acct SOMD [080-0115] .....	4		
1160 Appropriation, discretionary (total) .....	4,014	4,022	3,934
1930 Total budgetary resources available .....	4,089	4,065	3,977
<b>Memorandum (non-add) entries:</b>			
1941 Unexpired unobligated balance, end of year .....	43	43	43

**Change in obligated balance:**

<b>Unpaid obligations:</b>			
3000 Unpaid obligations, brought forward, Oct 1 .....	1,501	1,270	1,457
3010 New obligations, unexpired accounts .....	4,046	4,022	3,934
3011 Obligations ("upward adjustments"), expired accounts .....	2		
3020 Outlays (gross) .....	-4,237	-3,835	-3,934
3040 Recoveries of prior year unpaid obligations, unexpired .....	-36		
3041 Recoveries of prior year unpaid obligations, expired .....	-6		
3050 Unpaid obligations, end of year .....	1,270	1,457	1,457
<b>Memorandum (non-add) entries:</b>			
3100 Obligated balance, start of year .....	1,501	1,270	1,457
3200 Obligated balance, end of year .....	1,270	1,457	1,457

**Budget authority and outlays, net:**

<b>Discretionary:</b>			
4000 Budget authority, gross .....	4,014	4,022	3,934
<b>Outlays, gross:</b>			
4010 Outlays from new discretionary authority .....	2,757	2,735	2,557
4011 Outlays from discretionary balances .....	1,480	1,100	1,377
4020 Outlays, gross (total) .....	4,237	3,835	3,934
4180 Budget authority, net (total) .....	4,014	4,022	3,934
4190 Outlays, net (total) .....	4,237	3,835	3,934

This appropriation provides for costs associated with the development of systems and capabilities required for human exploration of space. The systems and capabilities include launch and crew vehicles for missions beyond low Earth orbit, technologies and countermeasures to keep astronauts healthy and functional during deep space missions, and technologies to increase 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 space exploration programs include Space Launch System, Orion, Exploration Ground Systems, Advanced Exploration Systems, and Human Research. The programs are managed by NASA's Human Exploration and Operations Mission Directorate, which also manages programs in the Space Operations account.

**Object Classification** (in millions of dollars)

Identification code 080-0124-0-1-252	2016 actual	2017 est.	2018 est.
<b>Direct obligations:</b>			
<b>Personnel compensation:</b>			
11.1 Full-time permanent .....	323	323	337
11.3 Other than full-time permanent .....	2	2	2
11.5 Other personnel compensation .....	1	1	1
11.8 Special personal services payments .....	1	1	1
11.9 Total personnel compensation .....	327	327	341
12.1 Civilian personnel benefits .....	104	104	109
13.0 Benefits for former personnel .....	1	1	
21.0 Travel and transportation of persons .....	14	14	13
22.0 Transportation of things .....	1	1	25
23.3 Communications, utilities, and miscellaneous charges .....	10	10	6
25.1 Advisory and assistance services .....	397	397	341
25.2 Other services from non-Federal sources .....	40	40	34
25.3 Other goods and services from Federal sources .....	40	40	34
25.4 Operation and maintenance of facilities .....	102	102	95
25.5 Research and development contracts .....	2,703	2,679	2,663
25.7 Operation and maintenance of equipment .....	149	149	134

EXPLORATION—Continued  
Object Classification—Continued

Identification code 080-0124-0-1-252	2016 actual	2017 est.	2018 est.
26.0 Supplies and materials .....	19	19	19
31.0 Equipment .....	40	40	45
32.0 Land and structures .....	38	38	19
41.0 Grants, subsidies, and contributions .....	61	61	56
99.9 Total new obligations, unexpired accounts .....	4,046	4,022	3,934

Employment Summary

Identification code 080-0124-0-1-252	2016 actual	2017 est.	2018 est.
1001 Direct civilian full-time equivalent employment .....	2,758	2,713	2,651

EDUCATION

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; purchase, lease, charter, maintenance, and operation of mission and administrative aircraft; and to carry out closure of the NASA Office of Education, including for making payments for awards granted prior to September 30, 2017, \$37,300,000, to remain available until September 30, 2019.

Note.—A full-year 2017 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Continuing Appropriations Act, 2017 (P.L. 114-254). The amounts included for 2017 reflect the annualized level provided by the continuing resolution.

Program and Financing (in millions of dollars)

Identification code 080-0128-0-1-252	2016 actual	2017 est.	2018 est.
<b>Obligations by program activity:</b>			
0001 Education (Direct) .....	137	115	37
<b>Budgetary resources:</b>			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1 .....	33	12	12
1021 Recoveries of prior year unpaid obligations .....	1		
1050 Unobligated balance (total) .....	34	12	12
Budget authority:			
Appropriations, discretionary:			
1100 Appropriation .....	115	115	37
1930 Total budgetary resources available .....	149	127	49
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year .....	12	12	12
<b>Change in obligated balance:</b>			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1 .....	159	179	129
3010 New obligations, unexpired accounts .....	137	115	37
3020 Outlays (gross) .....	-114	-165	-100
3040 Recoveries of prior year unpaid obligations, unexpired .....	-1		
3041 Recoveries of prior year unpaid obligations, expired .....	-2		
3050 Unpaid obligations, end of year .....	179	129	66
Memorandum (non-add) entries:			
3100 Obligated balance, start of year .....	159	179	129
3200 Obligated balance, end of year .....	179	129	66
<b>Budget authority and outlays, net:</b>			
Discretionary:			
4000 Budget authority, gross .....	115	115	37
Outlays, gross:			
4010 Outlays from new discretionary authority .....	14	24	8
4011 Outlays from discretionary balances .....	100	141	92
4020 Outlays, gross (total) .....	114	165	100
4180 Budget authority, net (total) .....	115	115	37
4190 Outlays, net (total) .....	114	165	100

This appropriation provides for the full costs associated with NASA's education activities within the Office of Education, which include labor, travel, procurement, test and fabrication costs. The Budget proposes the termination of the Office of Education and its portfolio of programs and projects. The Office of Education has experienced significant challenges in implementing a focused NASA-wide education strategy. Additionally, the Office of Education lacks sufficient outcome measures to assess the effectiveness of its programs.

The Budget supports the orderly closeout and/or transition of these activities needed to comply with federal laws and regulations regarding contracts, grants/cooperative agreements, civil servants, records management, and administrative infrastructure.

While the Budget no longer supports the formal Office of Education programs, NASA will continue to use every opportunity to support the next generation through engagement in our missions and the many ways that our work excites and encourages discovery by learners and educators.

Object Classification (in millions of dollars)

Identification code 080-0128-0-1-252	2016 actual	2017 est.	2018 est.
<b>Direct obligations:</b>			
Personnel compensation:			
11.1 Full-time permanent .....	5	5	4
11.8 Special personal services payments .....	1	1	
11.9 Total personnel compensation .....	6	6	4
12.1 Civilian personnel benefits .....	2	2	1
25.1 Advisory and assistance services .....	7	5	2
25.2 Other services from non-Federal sources .....	10	9	3
25.5 Research and development contracts .....	3	2	1
25.7 Operation and maintenance of equipment .....	6	4	1
41.0 Grants, subsidies, and contributions .....	103	87	25
99.9 Total new obligations, unexpired accounts .....	137	115	37

Employment Summary

Identification code 080-0128-0-1-252	2016 actual	2017 est.	2018 est.
1001 Direct civilian full-time equivalent employment .....	51	60	30

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, \$2,830,200,000, to remain available until September 30, 2019.

Note.—A full-year 2017 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Continuing Appropriations Act, 2017 (P.L. 114-254). The amounts included for 2017 reflect the annualized level provided by the continuing resolution.

Program and Financing (in millions of dollars)

Identification code 080-0122-0-1-252	2016 actual	2017 est.	2018 est.
<b>Obligations by program activity:</b>			
0001 Cross Agency Support (Direct) .....	2,800	2,764	2,830
0801 Cross Agency Support (Reimbursable) .....	2,525	2,726	2,548
0900 Total new obligations, unexpired accounts .....	5,325	5,490	5,378
<b>Budgetary resources:</b>			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1 .....	247	304	304
1010 Unobligated balance transfer to other accts Space Technology [080-0131] .....	-4		
1021 Recoveries of prior year unpaid obligations .....	28		

1033	Recoveries of prior year paid obligations .....	2		
1050	Unobligated balance (total) .....	273	304	304
	Budget authority:			
	Appropriations, discretionary:			
1100	Appropriation .....	2,769	2,764	2,830
1121	Appropriations transferred from other acct Science [080-0120] .....	1		
1121	Appropriations transferred from other acct Aeronautics [080-0126] .....	1		
1121	Appropriations transferred from other acct Exploration [080-0124] .....	2		
1160	Appropriation, discretionary (total) .....	2,773	2,764	2,830
	Spending authority from offsetting collections, discretionary:			
1700	Collected .....	2,197	2,726	2,548
1701	Change in uncollected payments, Federal sources .....	386		
1750	Spending auth from offsetting collections, disc (total) .....	2,583	2,726	2,548
1900	Budget authority (total) .....	5,356	5,490	5,378
1930	Total budgetary resources available .....	5,629	5,794	5,682
	Memorandum (non-add) entries:			
1941	Unexpired unobligated balance, end of year .....	304	304	304
<b>Change in obligated balance:</b>				
	Unpaid obligations:			
3000	Unpaid obligations, brought forward, Oct 1 .....	1,859	2,227	1,909
3010	New obligations, unexpired accounts .....	5,325	5,490	5,378
3011	Obligations ("upward adjustments"), expired accounts .....	10		
3020	Outlays (gross) .....	-4,922	-5,808	-5,528
3040	Recoveries of prior year unpaid obligations, unexpired .....	-28		
3041	Recoveries of prior year unpaid obligations, expired .....	-17		
3050	Unpaid obligations, end of year .....	2,227	1,909	1,759
	Uncollected payments:			
3060	Uncollected pymts, Fed sources, brought forward, Oct 1 .....	-1,105	-1,443	-1,443
3070	Change in uncollected pymts, Fed sources, unexpired .....	-386		
3071	Change in uncollected pymts, Fed sources, expired .....	48		
3090	Uncollected pymts, Fed sources, end of year .....	-1,443	-1,443	-1,443
	Memorandum (non-add) entries:			
3100	Obligated balance, start of year .....	754	784	466
3200	Obligated balance, end of year .....	784	466	316
<b>Budget authority and outlays, net:</b>				
	Discretionary:			
4000	Budget authority, gross .....	5,356	5,490	5,378
	Outlays, gross:			
4010	Outlays from new discretionary authority .....	3,089	4,392	4,302
4011	Outlays from discretionary balances .....	1,833	1,416	1,226
4020	Outlays, gross (total) .....	4,922	5,808	5,528
	Offsets against gross budget authority and outlays:			
	Offsetting collections (collected) from:			
4030	Federal sources .....	-2,024	-2,475	-2,295
4033	Non-Federal sources .....	-226	-251	-253
4040	Offsets against gross budget authority and outlays (total) ....	-2,250	-2,726	-2,548
	Additional offsets against gross budget authority only:			
4050	Change in uncollected pymts, Fed sources, unexpired .....	-386		
4052	Offsetting collections credited to expired accounts .....	51		
4053	Recoveries of prior year paid obligations, unexpired accounts .....	2		
4060	Additional offsets against budget authority only (total) .....	-333		
4070	Budget authority, net (discretionary) .....	2,773	2,764	2,830
4080	Outlays, net (discretionary) .....	2,672	3,082	2,980
4180	Budget authority, net (total) .....	2,773	2,764	2,830
4190	Outlays, net (total) .....	2,672	3,082	2,980

This appropriation provides for NASA's supporting functions associated with the science, aeronautics, space technology, education, space operations, exploration, and construction and environmental compliance and restoration activities of the agency. This account provides for the operations and maintenance; salaries and related expenses; and other general and administrative activities supporting the programs within the Agency's six mission accounts.

Safety, Security, and Mission Services provides a strategic focus for managing agency mission support functions and some of NASA's unique research facilities.

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. This Budget is not directly identified or aligned to a specific program or project require-

ment, but is necessary for efficient and effective administration and operation of the NASA Centers.

Agency Management and Operations provides for the management and oversight of Agency programs, the performance of Agency-wide activities and functions, and the maintenance of unique research capabilities and facilities. Responsibilities include the determination of programs and projects; establishment of management policies, procedures, and performance criteria; evaluation of progress; and the coordination and integration of all phases of the Agency's mission.

**Object Classification** (in millions of dollars)

Identification code 080-0122-0-1-252	2016 actual	2017 est.	2018 est.	
<b>Direct obligations:</b>				
<b>Personnel compensation:</b>				
11.1	Full-time permanent .....	879	866	994
11.3	Other than full-time permanent .....	18	18	20
11.5	Other personnel compensation .....	26	26	29
11.8	Special personal services payments .....			1
11.9	Total personnel compensation .....	923	910	1,044
12.1	Civilian personnel benefits .....	277	273	314
13.0	Benefits for former personnel .....	1	1	1
21.0	Travel and transportation of persons .....	22	22	20
22.0	Transportation of things .....	2	2	3
23.1	Rental payments to GSA .....	7	7	7
23.2	Rental payments to others .....	24	24	20
23.3	Communications, utilities, and miscellaneous charges .....	59	58	58
24.0	Printing and reproduction .....	3	3	3
25.1	Advisory and assistance services .....	221	218	203
25.2	Other services from non-Federal sources .....	258	255	236
25.3	Other goods and services from Federal sources .....	50	49	45
25.4	Operation and maintenance of facilities .....	252	249	232
25.5	Research and development contracts .....	181	179	155
25.6	Medical care .....	8	8	7
25.7	Operation and maintenance of equipment .....	416	411	394
26.0	Supplies and materials .....	14	14	14
31.0	Equipment .....	41	40	37
32.0	Land and structures .....	25	25	22
41.0	Grants, subsidies, and contributions .....	16	16	15
99.0	Direct obligations .....	2,800	2,764	2,830
99.0	Reimbursable obligations .....	2,525	2,726	2,548
99.9	Total new obligations, unexpired accounts .....	5,325	5,490	5,378

**Employment Summary**

Identification code 080-0122-0-1-252	2016 actual	2017 est.	2018 est.	
1001	Direct civilian full-time equivalent employment .....	7,437	7,688	7,705
2001	Reimbursable civilian full-time equivalent employment .....	342	317	263

**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, \$496,100,000, to remain available until September 30, 2023: 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 2018 in an amount not to exceed \$9,470,300: 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 2017 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Continuing Appropriations Act, 2017 (P.L. 114-254). The amounts included for 2017 reflect the annualized level provided by the continuing resolution.

CONSTRUCTION AND ENVIRONMENTAL COMPLIANCE AND RESTORATION—Continued  
**Program and Financing** (in millions of dollars)

Identification code 080-0130-0-1-252	2016 actual	2017 est.	2018 est.
<b>Obligations by program activity:</b>			
0001 Construction and Environmental Compliance and Restoration (Direct) .....	508	463	496
0801 Construction and Environmental Compliance and Restoration (Reimbursable) .....	5	9	9
0900 Total new obligations, unexpired accounts .....	513	472	505
<b>Budgetary resources:</b>			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1 .....	162	135	135
1011 Unobligated balance transfer from other acct Exploration [080-0124] .....	19		
1021 Recoveries of prior year unpaid obligations .....	33		
1050 Unobligated balance (total) .....	214	135	135
Budget authority:			
Appropriations, discretionary:			
1100 Appropriation .....	389	463	496
1121 Appropriations transferred from other acct Space Operations [080-0115] .....	11		
1121 Appropriations transferred from other acct Aeronautics [080-0126] .....	5		
1121 Appropriations transferred from other acct Science [080-0120] .....	5		
1121 Appropriations transferred from other acct Exploration [080-0124] .....	18		
1160 Appropriation, discretionary (total) .....	428	463	496
Spending authority from offsetting collections, discretionary:			
1700 Collected .....	6	9	9
1900 Budget authority (total) .....	434	472	505
1930 Total budgetary resources available .....	648	607	640
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year .....	135	135	135
<b>Change in obligated balance:</b>			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1 .....	734	719	728
3010 New obligations, unexpired accounts .....	513	472	505
3020 Outlays (gross) .....	-495	-463	-583
3040 Recoveries of prior year unpaid obligations, unexpired .....	-33		
3050 Unpaid obligations, end of year .....	719	728	650
Memorandum (non-add) entries:			
3100 Obligated balance, start of year .....	734	719	728
3200 Obligated balance, end of year .....	719	728	650
<b>Budget authority and outlays, net:</b>			
Discretionary:			
4000 Budget authority, gross .....	434	472	505
Outlays, gross:			
4010 Outlays from new discretionary authority .....	20	98	76
4011 Outlays from discretionary balances .....	475	365	507
4020 Outlays, gross (total) .....	495	463	583
Offsets against gross budget authority and outlays:			
Offsetting collections (collected) from:			
4033 Non-Federal sources .....	-6	-9	-9
4180 Budget authority, net (total) .....	428	463	496
4190 Outlays, net (total) .....	489	454	574

This appropriation provides for NASA's construction and environmental compliance and restoration activities, and allows the agency 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 under the authority of section 20145 of the National Aeronautics and Space Act (51 U.S.C. 20145). The costs provide 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	2016 actual	2017 est.	2018 est.
Direct obligations:			
23.3 Communications, utilities, and miscellaneous charges .....	1	1	1

25.1 Advisory and assistance services .....	34	31	35
25.2 Other services from non-Federal sources .....	33	30	32
25.3 Other goods and services from Federal sources .....	29	26	51
25.4 Operation and maintenance of facilities .....	102	93	84
25.5 Research and development contracts .....	32	29	20
25.7 Operation and maintenance of equipment .....	10	9	7
26.0 Supplies and materials .....			1
31.0 Equipment .....			1
32.0 Land and structures .....	267	244	264
99.0 Direct obligations .....	508	463	496
99.0 Reimbursable obligations .....	5	9	9
99.9 Total new obligations, unexpired accounts .....	513	472	505

SPACE 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, \$4,740,803,000, to remain available until September 30, 2019.

Note.—A full-year 2017 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Continuing Appropriations Act, 2017 (P.L. 114-254). The amounts included for 2017 reflect the annualized level provided by the continuing resolution.

**Program and Financing** (in millions of dollars)

Identification code 080-0115-0-1-252	2016 actual	2017 est.	2018 est.
<b>Obligations by program activity:</b>			
0001 Space Operations (Direct) .....	5,104	5,019	4,741
<b>Budgetary resources:</b>			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1 .....	169	103	103
1021 Recoveries of prior year unpaid obligations .....	24		
1050 Unobligated balance (total) .....	193	103	103
Budget authority:			
Appropriations, discretionary:			
1100 Appropriation .....	5,029	5,019	4,741
1120 Appropriations transferred to other accts CECR [080-0130] .....	-11		
1120 Appropriations transferred to other acct Exploration [080-0124] .....	-4		
1160 Appropriation, discretionary (total) .....	5,014	5,019	4,741
1900 Budget authority (total) .....	5,014	5,019	4,741
1930 Total budgetary resources available .....	5,207	5,122	4,844
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year .....	103	103	103
<b>Change in obligated balance:</b>			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1 .....	1,589	1,716	1,790
3010 New obligations, unexpired accounts .....	5,104	5,019	4,741
3011 Obligations ("upward adjustments"), expired accounts .....	18		
3020 Outlays (gross) .....	-4,951	-4,945	-4,814
3040 Recoveries of prior year unpaid obligations, unexpired .....	-24		
3041 Recoveries of prior year unpaid obligations, expired .....	-20		
3050 Unpaid obligations, end of year .....	1,716	1,790	1,717
Memorandum (non-add) entries:			
3100 Obligated balance, start of year .....	1,589	1,716	1,790
3200 Obligated balance, end of year .....	1,716	1,790	1,717
<b>Budget authority and outlays, net:</b>			
Discretionary:			
4000 Budget authority, gross .....	5,014	5,019	4,741
Outlays, gross:			
4010 Outlays from new discretionary authority .....	3,313	3,413	3,224
4011 Outlays from discretionary balances .....	1,637	1,532	1,590
4020 Outlays, gross (total) .....	4,950	4,945	4,814

Offsets against gross budget authority and outlays:			
Offsetting collections (collected) from:			
4033	Non-Federal sources .....	-1	
4040	Offsets against gross budget authority and outlays (total) ....	-1	
Additional offsets against gross budget authority only:			
4052	Offsetting collections credited to expired accounts .....	1	
4070	Budget authority, net (discretionary) .....	5,014	5,019 4,741
4080	Outlays, net (discretionary) .....	4,949	4,945 4,814
Mandatory:			
Outlays, gross:			
4101	Outlays from mandatory balances .....	1	
4180	Budget authority, net (total) .....	5,014	5,019 4,741
4190	Outlays, net (total) .....	4,950	4,945 4,814

This appropriation provides for the full costs associated with the space 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 Space Operations account include the International Space Station, Space Transportation, and Space and Flight Support. Performance goals associated with these activities are addressed in NASA's detailed budget request.

The International Space Station is a complex of research laboratories in low Earth orbit in which 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 and Flight Support is comprised of multiple capabilities that provide on-going customer support for a wide range of services. The programs include Space Communications and Navigation, Human Space Flight Operations, Launch Services, and Rocket Propulsion Testing. They are provided to a wide range of customers including NASA, other U.S. Federal agencies, foreign governments, and commercial customers. The programs are managed by NASA's Human Exploration and Operations Mission Directorate, which also manages programs in the Exploration account.

The Space Transportation theme's objective is to transport U.S. astronauts and cargo safely back and forth to America's orbiting national laboratory, ISS. This theme includes the Commercial Crew Program and ISS Crew and Cargo. Maintaining the ISS requires a fleet of vehicles and launch locations to transport astronauts, science experiments, critical supplies, maintenance hardware, and propellant to ISS, and to dispose of waste generated on ISS. The Commercial Crew Program partners with the U.S. private sector to develop and operate safe, reliable, and affordable crew transportation to low-Earth orbit. Within ISS Crew and Cargo Transportation, NASA currently purchases cargo transportation to the ISS under the CRS contracts with Orbital ATK and SpaceX and crew transportation from the Russian Space Agency, Roscosmos.

**Object Classification** (in millions of dollars)

Identification code 080-0115-0-1-252	2016 actual	2017 est.	2018 est.
Direct obligations:			
Personnel compensation:			
11.1	Full-time permanent .....	272	308 308
11.3	Other than full-time permanent .....	2	2 2
11.5	Other personnel compensation .....	1	2 2
11.9	Total personnel compensation .....	275	312 312
12.1	Civilian personnel benefits .....	87	87 98
21.0	Travel and transportation of persons .....	13	13 12
22.0	Transportation of things .....	1,529	1,529 1,487
23.2	Rental payments to others .....	4	4 3
23.3	Communications, utilities, and miscellaneous charges .....	4	4 4
24.0	Printing and reproduction .....	1	.....
25.1	Advisory and assistance services .....	88	88 79
25.2	Other services from non-Federal sources .....	125	125 128
25.3	Other goods and services from Federal sources .....	26	26 26
25.4	Operation and maintenance of facilities .....	36	36 37
25.5	Research and development contracts .....	2,589	2,467 2,227
25.7	Operation and maintenance of equipment .....	256	256 260

26.0	Supplies and materials .....	22	22 19
31.0	Equipment .....	21	21 17
32.0	Land and structures .....	3	3 4
41.0	Grants, subsidies, and contributions .....	25	25 28
99.9	Total new obligations, unexpired accounts .....	5,104	5,019 4,741

**Employment Summary**

Identification code 080-0115-0-1-252	2016 actual	2017 est.	2018 est.
1001	Direct civilian full-time equivalent employment .....	2,240	2,332 2,349

**OFFICE OF INSPECTOR GENERAL**

*For necessary expenses of the Office of Inspector General in carrying out the Inspector General Act of 1978, \$39,300,000, to remain available until September 30, 2019.*

Note.—A full-year 2017 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Continuing Appropriations Act, 2017 (P.L. 114-254). The amounts included for 2017 reflect the annualized level provided by the continuing resolution.

**Program and Financing** (in millions of dollars)

Identification code 080-0109-0-1-252	2016 actual	2017 est.	2018 est.
<b>Obligations by program activity:</b>			
0001	Office of Inspector General (Direct) .....	37	37 39
0801	Office of Inspector General (Reimbursable) .....	1	1 1
0900	Total new obligations, unexpired accounts .....	38	38 40
<b>Budgetary resources:</b>			
Budget authority:			
Appropriations, discretionary:			
1100	Appropriation .....	37	37 39
Spending authority from offsetting collections, discretionary:			
1700	Collected .....	1	1 1
1900	Budget authority (total) .....	38	38 40
1930	Total budgetary resources available .....	38	38 40
<b>Change in obligated balance:</b>			
Unpaid obligations:			
3000	Unpaid obligations, brought forward, Oct 1 .....	4	4 .....
3010	New obligations, unexpired accounts .....	38	38 40
3011	Obligations ("upward adjustments"), expired accounts .....	1	.....
3020	Outlays (gross) .....	-38	-42 -38
3041	Recoveries of prior year unpaid obligations, expired .....	-1	.....
3050	Unpaid obligations, end of year .....	4	..... 2
Memorandum (non-add) entries:			
3100	Obligated balance, start of year .....	4	4 .....
3200	Obligated balance, end of year .....	4	..... 2
<b>Budget authority and outlays, net:</b>			
Discretionary:			
4000	Budget authority, gross .....	38	38 40
Outlays, gross:			
4010	Outlays from new discretionary authority .....	34	38 36
4011	Outlays from discretionary balances .....	4	4 2
4020	Outlays, gross (total) .....	38	42 38
Offsets against gross budget authority and outlays:			
Offsetting collections (collected) from:			
4030	Federal sources .....	-1	-1 -1
4180	Budget authority, net (total) .....	37	37 39
4190	Outlays, net (total) .....	37	41 37

This appropriation provides for the full costs associated with 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 Administrator and the Congress informed of problems and deficiencies in agency programs and operations.

OFFICE OF INSPECTOR GENERAL—Continued

Object Classification (in millions of dollars)

Identification code 080-0109-0-1-252	2016 actual	2017 est.	2018 est.
<b>Direct obligations:</b>			
11.1 Personnel compensation: Full-time permanent .....	23	23	23
12.1 Civilian personnel benefits .....	8	8	10
21.0 Travel and transportation of persons .....	1	1	1
25.2 Other services from non-Federal sources .....	3	3	3
25.3 Other goods and services from Federal sources .....	2	2	1
31.0 Equipment .....			1
99.0 Direct obligations .....	37	37	39
99.0 Reimbursable obligations .....	1	1	1
99.9 Total new obligations, unexpired accounts .....	38	38	40

Employment Summary

Identification code 080-0109-0-1-252	2016 actual	2017 est.	2018 est.
1001 Direct civilian full-time equivalent employment .....	185	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	2016 actual	2017 est.	2018 est.
<b>Budgetary resources:</b>			
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
<b>Change in obligated balance:</b>			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1 .....	1		
3020 Outlays (gross) .....	-1		
Memorandum (non-add) entries:			
3100 Obligated balance, start of year .....	1		
<b>Budget authority and outlays, net:</b>			
Discretionary:			
Outlays, gross:			
4011 Outlays from discretionary balances .....	1		
4180 Budget authority, net (total) .....			
4190 Outlays, net (total) .....	1		

NASA's Science, Aeronautics and Exploration account formerly included Science, Aeronautics Research, Exploration Systems and Cross Agency Support Programs. Beginning in 2009, Science, Aeronautics, Exploration, Education and Cross Agency Support were split into five separate appropriation accounts. The Science, Aeronautics, and Exploration account shows spending from balances prior to the account restructuring.

HUMAN SPACE FLIGHT

Program and Financing (in millions of dollars)

Identification code 080-0111-0-1-252	2016 actual	2017 est.	2018 est.
<b>Budgetary resources:</b>			
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
<b>Change in obligated balance:</b>			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1 .....	7	5	
3011 Obligations ("upward adjustments"), expired accounts .....	5		
3020 Outlays (gross) .....		-5	
3041 Recoveries of prior year unpaid obligations, expired .....	-7		

3050 Unpaid obligations, end of year .....	5		
Memorandum (non-add) entries:			
3100 Obligated balance, start of year .....	7	5	
3200 Obligated balance, end of year .....	5		

Budget authority and outlays, net:

Discretionary:			
Outlays, gross:			
4011 Outlays from discretionary balances .....		5	
4180 Budget authority, net (total) .....			
4190 Outlays, net (total) .....		5	

NASA's Human Space Flight account formerly included the International Space Station; Space Shuttle Payload and Expendable Launch Vehicle Support; Human Exploration and Development of Space Investments and Support; Space Communications and Data Systems; and Safety, Mission Assurance and Engineering. Beginning in 2004, Safety, Mission Assurance, and Engineering was allocated as an indirect charge to all programs and all other programs (along with the Crosscutting Technologies portion of the Aerospace Technology Enterprise) were rolled into the Space Flight Capabilities account. In 2005, the Space Flight Capabilities account was renamed the Exploration Capabilities account. In 2009, the Exploration Capabilities account was renamed Space Operations. The Human Space Flight account shows spending from balances prior to the account restructuring.

SCIENCE, AERONAUTICS AND TECHNOLOGY

Program and Financing (in millions of dollars)

Identification code 080-0110-0-1-999	2016 actual	2017 est.	2018 est.
<b>Budgetary resources:</b>			
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
<b>Change in obligated balance:</b>			
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) .....			

NASA's Science, Aeronautics and Technology account formerly included Space Science, Biological and Physical Research, Earth Science, Aerospace Technology, and Education. Beginning in 2004, Space Science, Biological and Physical Research, Earth Science, the Aeronautics portion of Aerospace Technology, and Education were rolled into the Science, Aeronautics and Exploration account. These programs are now funded by the Aeronautics, Education, Science, and Exploration accounts. The Science, Aeronautics, and Technology account shows spending from balances prior to the account restructuring.

MISSION SUPPORT

Program and Financing (in millions of dollars)

Identification code 080-0112-0-1-999	2016 actual	2017 est.	2018 est.
<b>Budgetary resources:</b>			
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) .....			



NASA's Mission Support account formerly included Research and Program Management and Construction of Facilities. The Mission Support account shows spending from residual construction of facilities balances from prior to 2004.

WORKING CAPITAL FUND

Program and Financing (in millions of dollars)

Identification code 080-4546-0-4-252	2016 actual	2017 est.	2018 est.
<b>Obligations by program activity:</b>			
0801 Working Capital Fund (Reimbursable) .....	415	491	498
<b>Budgetary resources:</b>			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1 .....	10	12	19
1021 Recoveries of prior year unpaid obligations .....	3	6	.....
1050 Unobligated balance (total) .....	13	18	19
Budget authority:			
Spending authority from offsetting collections, discretionary:			
1700 Collected .....	414	492	492
1930 Total budgetary resources available .....	427	510	511
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year .....	12	19	13
<b>Change in obligated balance:</b>			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1 .....	161	169	171
3010 New obligations, unexpired accounts .....	415	491	498
3020 Outlays (gross) .....	-404	-483	-492
3040 Recoveries of prior year unpaid obligations, unexpired .....	-3	-6	.....
3050 Unpaid obligations, end of year .....	169	171	177
Memorandum (non-add) entries:			
3100 Obligated balance, start of year .....	161	169	171
3200 Obligated balance, end of year .....	169	171	177
<b>Budget authority and outlays, net:</b>			
Discretionary:			
4000 Budget authority, gross .....	414	492	492
Outlays, gross:			
4010 Outlays from new discretionary authority .....	246	344	344
4011 Outlays from discretionary balances .....	158	139	148
4020 Outlays, gross (total) .....	404	483	492
Offsets against gross budget authority and outlays:			
Offsetting collections (collected) from:			
4030 Federal sources .....	-403	-475	-473
4033 Non-Federal sources .....	-11	-17	-19
4040 Offsets against gross budget authority and outlays (total) ....	-414	-492	-492
4080 Outlays, net (discretionary) .....	-10	-9	.....
4180 Budget authority, net (total) .....	.....	.....	.....
4190 Outlays, net (total) .....	-10	-9	.....

The Working Capital Fund provides goods and services on a reimbursable basis. The Fund consists of 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	2016 actual	2017 est.	2018 est.
Reimbursable obligations:			
11.1 Personnel compensation: Full-time permanent .....	14	14	17
12.1 Civilian personnel benefits .....	5	5	6
21.0 Travel and transportation of persons .....	1	1	1
25.1 Advisory and assistance services .....	1	1	1
25.2 Other services from non-Federal sources .....	46	46	46
25.3 Other goods and services from Federal sources .....	1	1	1
25.4 Operation and maintenance of facilities .....	4	4	4
25.7 Operation and maintenance of equipment .....	343	419	422
99.9 Total new obligations, unexpired accounts .....	415	491	498

Employment Summary

Identification code 080-4546-0-4-252	2016 actual	2017 est.	2018 est.
2001 Reimbursable civilian full-time equivalent employment .....	145	140	161

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	2016 actual	2017 est.	2018 est.
0100 Balance, start of year .....	15	15	15
Receipts:			
Current law:			
1140 Earnings on Investments, Science, Space and Technology Education Trust Fund .....	1	1	1
2000 Total: Balances and receipts .....	16	16	16
Appropriations:			
Current law:			
2101 Science, Space, and Technology Education Trust Fund .....	-1	-1	-1
5099 Balance, end of year .....	15	15	15

Program and Financing (in millions of dollars)

Identification code 080-8978-0-7-503	2016 actual	2017 est.	2018 est.
<b>Obligations by program activity:</b>			
0001 Science, Space, and Technology Education Trust Fund (Direct) .....	1	1	1
0900 Total new obligations (object class 41.0) .....	1	1	1
<b>Budgetary resources:</b>			
Budget authority:			
Appropriations, mandatory:			
1201 Appropriation (special or trust fund) .....	1	1	1
1930 Total budgetary resources available .....	1	1	1
<b>Change in obligated balance:</b>			
Unpaid obligations:			
3010 New obligations, unexpired accounts .....	1	1	1
3020 Outlays (gross) .....	-1	-1	-1
<b>Budget authority and outlays, net:</b>			
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
<b>Memorandum (non-add) entries:</b>			
5000 Total investments, SOY: Federal securities: Par value .....	16	16	16
5001 Total investments, EOY: Federal securities: Par value .....	16	16	16

NATIONAL SPACE GRANT PROGRAM

Program and Financing (in millions of dollars)

Identification code 080-8977-0-7-252	2016 actual	2017 est.	2018 est.
<b>Change in obligated balance:</b>			
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) .....			

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 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 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)

	2016 actual	2017 est.	2018 est.
Offsetting receipts from the public:			
080-322000 All Other General Fund Proprietary Receipts Including			
Budget Clearing Accounts .....	5	15	15
General Fund Offsetting receipts from the public .....	5	15	15
Intragovernmental payments:			
080-388500 Undistributed Intragovernmental Payments and			
Receivables from Cancelled Accounts .....	1		
General Fund Intragovernmental payments .....	1		