

Table II-12. NASA R&D

Table II-12. R&D in the National Aeronautics and Space Administration
(budget authority in millions of dollars)

	FY 2005 Actual	FY 2006 Estimate	FY 2007 Budget	Change FY 06-07	
				Amount	Percent
Detail of NASA Budget:					
1. Exploration Capabilities (EC)					
Space Operations					
International Space Station	1,591	1,753	1,811	58	3.3%
Space Shuttle *	5,049	4,778	4,057	-721	-15.1%
Space and Flight Support	474	339	367	28	8.2%
Total Exploration Capabilities	7,114	6,870	6,235	-635	-9.2%
2. Science, Aeronautics, and Exploration (SAE)					
Science					
Solar System Exploration:					
Discovery	183	146	162	16	11.0%
New Frontiers	211	148	155	7	4.6%
Technology	129	57	73	16	28.0%
Deep Space Mission Sys.	258	255	247	-8	-3.0%
Solar System Research	351	327	274	-53	-16.2%
Mars Exploration	588	650	700	50	7.7%
Total Solar System Exploration	1,721	1,582	1,610	28	1.8%
The Universe:					
Navigator	179	146	128	-17	-12.0%
James Webb Space Telescope	295	364	443	79	21.7%
Hubble Space Telescope	303	269	337	68	25.4%
SOFIA 1/	72	48	0	-48	-100.0%
Gamma-Ray Large Area Tel.	111	126	85	-41	-32.2%
Discovery	95	138	101	-37	-26.7%
Explorer	57	85	68	-18	-20.8%
Universe Research	322	306	307	1	0.3%
Int'l Space Science Collab.	18	13	20	7	50.8%
Beyond Einstein	24	14	21	7	50.0%
Total Universe	1,475	1,508	1,509	1	0.1%
Earth-Sun System:					
Earth Systematic Missions	264	164	302	138	84.2%
Living with a Star	201	239	226	-13	-5.4%
Solar Terrestrial Probes	116	94	84	-10	-10.9%
Explorer Program	149	130	73	-57	-43.5%

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Earth System Sci. Pathfinder	111	142	161	20	13.8%
Multi-Mission Operations	288	267	265	-3	-1.0%
Earth-Sun Research	921	882	878	-4	-0.4%
Applied Sciences	82	95	51	-44	-46.2%
Education and Outreach	24	23	23	1	2.6%
Earth-Sun Technology	152	127	146	19	14.9%
Total Earth-Sun System	2,306	2,164	2,211	47	2.2%
Total SCIENCE	5,502	5,254	5,330	76	1.5%
Exploration Systems					
Constellation Systems:					
Crew Exploration Vehicle	54	839	895	56	6.6%
Crew Launch Vehicle	11	384	837	453	117.8%
ISS Cargo Crew Services	0	51	191	140	272.5%
Launch and Mission Sys.	0	134	470	336	250.7%
Exploration Commun. & Navig.	0	51	103	52	103.4%
Other Constellation Sys.	358	274	563	288	105.1%
Total Constellation Systems	422	1,734	3,058	1,324	76.4%
Exploration Systems Res. & Tech.:					
Centennial Challenges	10	0	10	10	--
Robotic Lunar Exploration	52	134	273	138	103.1%
Prometheus Nuclear Propul.	270	76	9	-66	-87.6%
Exploration Tech. Development	478	482	354	-128	-26.6%
Hubble Servicing Mission	89	0	0	0	--
Total Exploration Systems R&T	899	693	646	-46	-6.7%
Human Systems Res. & Tech.:					
Life Support & Habitation	309	209	103	-107	-50.9%
Human Health & Perf.	337	257	156	-101	-39.3%
Human Sys. Integration	243	157	16	-142	-90.1%
Total Human Systems R&T	888	624	275	-350	-56.0%
Total EXPLORATION SYSTEMS	2,209	3,050	3,978	928	30.4%
Aeronautics Research	962	884	724	-160	-18.1%

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Cross-Agency Support Programs					
Education	179	162	153	-9	-5.6%
Advanced business systems	0	156	108	-48	-30.8%
Innovative Partnerships	199	215	198	-17	-7.9%
Shared Capabilities	0	0	32	32	--
Total CROSS-AGCY. SUPPORT	378	534	492	-42	-7.8%
Total SAE	9,051	9,721	10,524	803	8.3%
3. Inspector General (non-R&D)	31	32	34	2	4.7%
TOTAL NASA Budget	16,196	16,623	16,792	169	1.0%
<i>minus non-R&D activities:</i>					
<i>Space Shuttle</i>	<i>-5,049</i>	<i>-4,778</i>	<i>-4,057</i>	<i>-721</i>	<i>-15.1%</i>
<i>Other non-R&D</i>	<i>-474</i>	<i>-495</i>	<i>-475</i>	<i>-20</i>	<i>-4.1%</i>
<i>Inspector General</i>	<i>-31</i>	<i>-32</i>	<i>-34</i>	<i>2</i>	<i>4.7%</i>
<i>Education & Training</i>	<i>-24</i>	<i>-24</i>	<i>-25</i>	<i>2</i>	<i>6.7%</i>
TOTAL NASA R&D	10,618	11,295	12,202	907	8.0%

Source: OMB R&D data for FY 2007, agency budget justification, and agency documents.

All figures are rounded to the nearest million. Changes calculated from unrounded figures.

NASA has proposed to restructure its accounts in FY 2007.

Figures for all years have been adjusted to reflect the proposed structure.

FY 2005 figures are based on the September 2005 operating plan;

FY 2006 figures are based on the January 2006 operating plan.

* FY 2005 and 2006 Shuttle figures include emergency supplementals for hurricane damages.

1/ Stratospheric Observatory for Infrared Astronomy

2/ Formerly Biological and Physical Research.

Please see Chapter 10 for a discussion of NASA R&D.

REVISED February 16, 2006