

NASA'S FY2011 BUDGET REQUEST AND FY2012-2013 PROJECTIONS IN THE 111TH CONGRESS (HISTORICAL)

This historical fact sheet provides several SpacePolicyOnline.com tables showing President Obama's FY2011 budget request and the associated 5-year projections for NASA as they were considered in 2010 by the 111th Congress.

Although FY2011 began on October 1, 2010 and the 111th Congress ended, a final appropriations bill for NASA for FY2011 still had not passed as of the date of this report. In fact, no appropriations bill for any federal agency had passed for FY2011. The government is operating on short term Continuing Resolutions (CRs) under which most agencies, including NASA, are funded at their FY2010 appropriations levels. Thus, decisions on the Obama FY2011 budget request remain pending.

Information on the current status of NASA's FY2011 appropriations as they are considered by the 112th Congress is contained in a different SpacePolicyOnline.com fact sheet entitled [NASA's FY2011 Appropriations: The Debate Continues in the 112th Congress](#). We also have a [fact sheet](#) on NASA's FY2012 budget request.

This fact sheet is useful primarily for those who want to know what was in President Obama's FY2011 budget request for NASA and congressional action on that request during 2010. Congress did pass and the President signed into law the 2010 NASA Authorization Act (P.L. 111-267). Authorization acts provide policy guidance and recommend funding levels. They do not actually provide any money. For an explanation of the difference between an authorization and an appropriation, see our [What's A Markup?](#) fact sheet.

NASA budget request details for FY2011 are available at <http://www.nasa.gov/budget>. The relevant bills that were considered in the 111th Congress are listed below. Bills are not carried over from one Congress to the next. Any bill that did not clear the 111th Congress, like the "full year CR" discussed herein, died when the 112th Congress began. The information on the full year CR that was debated in the 111th Congress is included here for historical purposes only. Other FY2011 CRs, including a new full year CR that is entirely different from the one described in this fact sheet, are being debated today. See our other [fact sheet](#) to keep up with current action.

- Authorization Bills in the 111th Congress
 - Reported from the House Science and Technology Committee (H.R. 5781, H. Rept. 111-576). A revised version was later released, but was not brought to the House floor. Instead the House passed the Senate version of the bill, S. 3729.
 - Passed by the Senate, amended (S. 3729, S. Rept. 111-278). This bill passed the House on September 29, 2010 and was **signed into law on Oct. 11, 2010 (P.L. 111-267)**.
- Appropriations Bills in the 111th Congress (NASA is part of the Commerce-Justice-Science bill)
 - Reported from House CJS subcommittee to full House appropriations committee (bill never introduced)
 - Reported from the Senate Appropriations Committee (S. 3636, S. Rept. 111-229)
 - House passed a "full year Continuing Resolution" (H.R. 3082 as amended and passed by the House December 8, 2010) with substantive language about NASA, but the Senate did not agree. Instead a short term CR that continued government funding through March 4, 2011 was passed. It continued NASA at its FY2010 level.

Table 1 shows the President's FY2011 budget request and congressional action thereon in the 111th Congress.

The President's FY2011 request includes a 5-year projection ("run-out") through FY2015. Projections are not budget requests; they only indicate what the President has in mind at the time the annual budget request is submitted to Congress. The funding levels can and often do change when budget requests are made in those future years. Although appropriations bills cover only one fiscal year, authorization bills can be multi-year and both the House and Senate authorization bills currently before Congress cover three years: FY2011-2013. **Tables 2 and 3** show the President's projected funding requests for FY2012 and FY2013, respectively, and what was recommended in the House and Senate authorization bills. The Senate version of the authorization bill was enacted into law.

The most contentious aspect of NASA funding for this and future years is the direction of NASA's exploration program. **Table 4** compares the President's FY2011 request and projection for FY2012 and FY2013 with what the House and Senate recommended in their authorization bills for that program. As noted, the Senate version was enacted into law.

Table 5 compares the President's projected run-out for NASA in his FY2010 budget request versus his FY2011 budget request.

**Table 1: FY2011 NASA Budget Request and Congressional Action
(in \$ billions)**

As of the date on this fact sheet, Congress has not finalized FY2011 appropriations. The House-passed “Full-Year” Continuing Resolution (CR) shown in this table was considered in the 111th Congress, not the current (112th) Congress, and was never enacted. It is shown for historical purposes only. NASA is operating at its FY2010 level under a short-term CR that expires March 4, 2011.

FY2011	President's Request	Authorization (The Senate version was enacted)		Appropriations		
		House Cmte	Senate (FINAL)	House Sbcmt* [*]	Senate Cmte	<u>Dec. 2010 House-Passed Full Yr CR (NEVER ENACTED)</u>
Science	5.005	5.016	5.005	4.705	5.005	5.005
<i>Earth Sci</i>	1.802	1.802	1.802		1.802	
<i>Planetary</i>	1.486	1.486	1.486		1.486	
<i>Astrophysics</i>	1.076	1.076	1.076		1.076	
<i>Heliophysics</i>	0.642	0.647 (.005 is augmntn for Explrs)	0.642		0.642	
<i>Suborbital Augmntn</i>		0.005				
Aeronautics†	0.580	0.580	0.580	0.375	0.580	0.580
Space Technlgy†	0.572	0.572	0.350	0.512	0.325	0.559 (includes tech dev from ESMD)
Exploration	4.263	4.535**	3.868	3.564	3.912	3.706
<i>Human Research</i>	0.215	0.215	0.155		0.155	<i>not specified</i>
<i>Comrcl cargo demo</i>	0.312	0.014	0.300		0.312	0.300
<i>Comrcl crew</i>	0.500	0.050	0.312		0.250	0.250
<i>Restructure expl program</i>	--	4.156**	--		--	--
<i>Loan and loan guar.</i>	--	0.100	--		--	--
<i>New crew vehicle</i>	--	--	1.120		--	--

FY2011	President's Request	Authorization (The Senate version was enacted)		Appropriations		
		House Cmte	Senate (FINAL)	House Sbcmte*	Senate Cmte	Dec. 2010 House-Passed Full Yr CR (NEVER ENACTED)
<i>Orion</i>	--	--	--		1.100	1.200
<i>HLLV and Propulsion R&D</i>	0.559	--	--		--	--
<i>New Space Trans Sys/HLLV</i>	--	--	1.631		1.900	1.800
<i>Tech Dev & Demo</i>	0.652	--			.150 (at least 0.027 for flagship demos)	--
<i>Expl. Tech. Dev.</i>			0.250			combined with Space Tech in Aeronautics account †
<i>Robotic Precursors</i>	0.125	--	0.100		0.045	not specified
<i>Constellation Closeout</i>	1.900	--	--		--	--
Space Operations	4.888	4.594**	5.509	4.461	5.533	5.248
<i>Shuttle</i>	0.989	0.989	1.610		1.610	0.989
<i>Addl shuttle costs, other specific uses</i>						0.825
<i>ISS</i>	2.780	2.805** (0.075 is for fundmntl res.)	2.780		2.780	2.745
<i>Post-Shuttle Trans</i>	--	0.060	--		--	--
<i>Sp & Flt Support</i>	1.119	0.740 (0.050 is for 21 st Cntry Lnch Complex)	1.119 (0.429 is for NASA Inch spprt & modernization)		1.144	0.689
Education	0.146	0.146	0.146 (0.025 is	0.205	0.146	0.180

FY2011	President's Request	Authorization (The Senate version was enacted)		Appropriations		
		House Cmte	Senate (FINAL)	House Sbcmte*	Senate Cmte	Dec. 2010 House-Passed Full Yr CR (NEVER ENACTED)
			for EPSCOR; 0.046 for Space Grant)			
Cross Agency	3.111	3.111	3.111	4.634	3.079	3.086
Constr & Env C	0.397	0.407 (0.010 is for NASA lab revitlztn)	0.394	0.509	0.381	0.529
IG	0.037	0.038	0.037	0.037	0.038	0.038
TOTAL	19.000	19.000	19.000	19.000	19.000	18.930

Totals may not add due to rounding. "Augmntn" = augmentation. *Italics designate subsets.*

* The House CJS Subcommittee recategorized funding from the mission directorates into Cross Agency Support to reflect how civil service salaries are to be accounted for in the future, which is why its funding levels appear so different from the others.

** The committee approved \$700 million for an additional shuttle flight is needed, in which case \$525 million would be redirected from the restructured exploration program and \$175 million from ISS.

† Aeronautics and Space Technology are combined under a single heading in the FY2011 budget request and some of the bills. In the House-passed full year CR, which did not pass, the space technology funds in this portion of the bill were combined with the technology development funds in the Exploration Systems Mission Directorate, with a total for both of \$559 million.

Sources:

- President's Budget Request (<http://www.nasa.gov/budget>)
- House NASA authorization bill as reported from House Science and Technology Committee (H.R. 5781)
- Senate NASA authorization bill as passed by the Senate (S. 3729), later by the House, and enacted into law Oct. 11, 2010.
- House CJS Subcommittee markup spreadsheet (http://appropriations.house.gov/images/stories/pdf/cjs/CJS_FY_11_Top-line_Table.pdf)
- Senate Appropriations committee bill as reported (S. 3636)
- House-passed full year continuing resolution (H.R. 3082 as amended) as shown [on House Appropriations Committee's website](#). This bill did not pass.

Table 2: President's Projected Funding for FY2012 and House and Senate Authorization Bills (in \$ billions)

The Senate version of the bill was enacted (P.L. 111-267).

FY2012	Projection in President's FY2011 Request	House cmte	Senate (FINAL – P.L. 111-267)
Science	5.249	5.279	5.249
<i>Earth Sci</i>	1.944	1.945	1.945
<i>Planetary</i>	1.547	1.547	1.547
<i>Astrophysics</i>	1.109	1.109	1.109
<i>Heliophysics</i>	0.648	0.673 (0.025 is augmntn for Explorers)	0.648
<i>Suborbital Augmntn</i>		0.005	
Aeronautics†	0.585	0.599	0.585
Space Technlgy†	1.012	1.012	0.486
Exploration	4.577	4.882	5.252
<i>Human Research</i>	0.215	0.215	0.165
<i>Commercial crew</i>	1.400	0.050	0.500
<i>Restructure expl program</i>	--	4.517	--
<i>Loan and loan guar.</i>	--	0.100	--
<i>New crew vehicle</i>			1.400
<i>HLLV and Propulsion R&D</i>	0.594	--	--
<i>New Space Trans Sys/HLLV</i>			2.650
<i>Expl Tech Devl</i>			0.437
<i>Tech Dev & Demo</i>	1.262	--	--
<i>Robotic Precursors</i>	0.506	--	0.100
<i>Constellation Closeout</i>	0.600	--	--
Space Operations	4.290	3.930	4.142
<i>Shuttle</i>	0.086	0.086	--

FY2012	Projection in President's FY2011 Request	House cmte	Senate (<u>FINAL – P.L. 111-267</u>)
<i>ISS</i>	2.984	3.034 (0.100 is for fundamental res)	2.952
<i>Post-Shuttle Trans</i>		0.040	--
<i>Sp & Flt Support</i>	1.221	0.771 (0.050 is for 21 st Cntry Lnch Cmplx)	1.189 (0.500 is for NASA launch support and infrastructure modernization)
Education	0.146	0.146	0.146 (0.025 is for EPSCOR, 0.046 is for Space Grant)
Cross Agency	3.190	3.190	3.190
Constr & Env C	0.364	0.374 (0.010 for NASA lab revitalization)	0.364
IG	0.038	0.039	0.038
TOTAL	19.450	19.450	19.450

Totals may not add due to rounding. *Italics designate subsets.*

† Aeronautics and Space Technology are combined under a single heading in the projections accompanying the President's FY2011 budget request and some of the bills.

Sources:

- President's Budget Request (<http://www.nasa.gov/budget>)
- House NASA authorization bill as reported from House Science and Technology Committee (H.R. 5781)
- Senate NASA authorization bill as passed by the Senate (S. 3729), later by the House, and enacted into law Oct. 11, 2010.

Table 3: President's Projected Funding for FY2013 and House and Senate Authorization Bills (in \$ billions)

The Senate version of the bill was enacted P.L. 111-267).

FY2013	Projection in President's FY2011 Request	House cmte	Senate (FINAL – P.L. 111-267)
Science	5.510	5.570	5.510
<i>Earth Sci</i>	<i>2.089</i>	<i>2.090</i>	<i>2.090</i>
<i>Planetary</i>	<i>1.591</i>	<i>1.591</i>	<i>1.591</i>
<i>Astrophysics</i>	<i>1.149</i>	<i>1.149</i>	<i>1.149</i>
<i>Heliophysics</i>	<i>0.680</i>	<i>0.735 (0.055 is augmntn for Explorers)</i>	<i>0.680</i>
<i>Suborbital Augmntn</i>		<i>0.005</i>	
Aeronautics†	0.590	0.609	0.590
Space Technlgy†	1.060	1.060	0.515
Exploration	4.719	4.889	5.264
<i>Human Research</i>	<i>0.215</i>	<i>0.215</i>	<i>0.175</i>
<i>Commercial crew</i>	<i>1.400</i>	<i>0.050</i>	<i>0.500</i>
<i>Restructure expl program</i>		<i>4.514</i>	
<i>Loan and loan guar.</i>		<i>0.100</i>	
<i>New crew vehicle</i>			<i>1.400</i>
<i>HLLV and Propulsion R&D</i>	<i>0.597</i>		
<i>New Space Trans Sys/HLLV</i>			<i>2.640</i>
<i>Expl. Tech. Dev.</i>			<i>0.449</i>
<i>Tech Dev & Demo</i>	<i>1.808</i>	<i>0.005</i>	--
<i>Robotic Precursors</i>	<i>0.699</i>	<i>0.005</i>	<i>0.100</i>
Space Operations	4.253	3.993	4.253
<i>Shuttle</i>	--	--	--
<i>ISS</i>	<i>3.129</i>	<i>3.179 (0.100 is for fundamental res.)</i>	<i>3.129</i>
<i>Post-Shuttle Trans</i>		<i>0.040</i>	
<i>Sp & Flt Support</i>	<i>1.124</i>	<i>0.774 (0.050 is for 21st Cntry Lnch Cmplx)</i>	<i>1.124 (0.400 is for NASA launch support and infrastructure modernization)</i>

FY2013	Projection in President's FY2011 Request	House cmte	Senate (<u>FINAL – P.L. 111-267</u>)
Education	0.146	0.146	0.146 (0.025 is for EPSCOR; 0.047 is for Space Grant)
Cross Agency Spprt	3.277	3.277	3.277
Constr & Env C	0.367	0.377 (0.010 for NASA lab revitalization)	0.367
IG	0.039	0.040	0.039
TOTAL	19.960	19.960	19.960

Totals may not add due to rounding. *Italics designate subsets.*

† Aeronautics and Space Technology are combined under a single heading in the projections accompanying the President's FY2011 budget request and some of the bills.

Sources:

- President's Budget Request (<http://www.nasa.gov/budget>)
- House NASA authorization bill as reported from House Science and Technology Committee (H.R. 5781)
- Senate NASA authorization bill as passed by the Senate (S. 3729), later by the House, and enacted into law Oct. 11, 2010.

Table 4: NASA's Exploration Program: Comparison of President's Request and Projections with House and Senate Authorization Bills FY2011-FY2013 (in \$ millions)

The Senate version of the bill was enacted (P.L. 111-267).

Project/Activity	FY2011			FY2012			FY2013		
	President (Request)	House Cmte	Senate (Final)	President (Projection)	House Cmte	Senate (Final)	President (Projection)	House Cmte	Senate (Final)
Human Research	215	215	155	215	215	165	215	215	175
Technology Development and Demonstration	652	--	--	1,262	--	--	1,808	5	--
Exploration Technology Development	--	--	250	--	--	437	--	--	449
Heavy Lift & Propulsion R&D	559	--	--	594	--	--	597	--	--
New HLLV/Space Launch System	--	--	1,631	--	--	2,650	--	--	2,640
Commercial Cargo Demonstration	312	14	300	--	--	--	--	--	--
Commercial Crew	500	50	312	1,400	50	500	1,400	50	500
New Crew Vehicle	--	--	1,120	--	--	1,400	--	--	1,400
Restructure Exploration Program	--	*4,156	--	--	4,517	--	--	4,514	--
Loans and Loan Guarantees	--	100	--	--	100	--	--	100	--
Robotic Precursors	125	--	100	506	--	100	699	5	100
Constellation Closeout	1,900	--	--	600	--	--	--	--	--
TOTAL	4,263	*4,535	3,868	4,577	4,882	5,252	4,719	4,889	5,264

Totals may not add due to rounding. Sources: (1) President's Budget Request (<http://www.nasa.gov/budget>); (2) House NASA authorization bill as reported from House Science and Technology Committee (H.R. 5781); (3) Senate NASA authorization bill as passed by the Senate (S. 3729) and later by the House and enacted into law Oct. 11, 2010

**Table 5: Projected NASA Funding in President Obama's
FY2010 and FY2011 Budget Requests (in \$ millions)**

	FY2011	FY2012	FY2013	FY2014	FY2015
FY2010 Budget	18,631	18,613	18,607	18,858	Not public*
<i>Yr to Yr change</i>	<i>-0.3%</i>	<i>-0.1%</i>	<i>0.0%</i>	<i>1.3%</i>	<i>Not public</i>
FY2011 Budget	19,000	19,450	19,960	20,600	20,990
<i>Yr to Yr change</i>	<i>1.5%</i>	<i>2.4%</i>	<i>2.6%</i>	<i>3.2%</i>	<i>1.9%</i>
Difference	+369	+837	+1,353	+1,742	(presumably +1,699)*

*The public budget documents provide a budget "run-out" of 5 years, so in the FY2010 budget only the years through FY2014 were provided. The figure of \$1,699 million shown in this table was calculated using simple arithmetic to reach the \$6 billion level by which NASA says the President plans to increase its budget over 5 years.