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NASA'S FY2011 BUDGET REQUEST AND FY2012-2013 PROJECTIONS

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

Budget request details are available at http://www.nasa.gov/budget. The relevant bills in Congress are the following.

- Authorization Bills
  - 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**.
- Appropriations Bills (NASA Is part of the Commerce-Justice-Science bill)
  - Reported from House CJS subcommittee to full House appropriations committee (bill not yet introduced)
  - Reported from the Senate Appropriations Committee (S. 3636, S. Rept. 111-229)

For an explanation of the difference between an authorization and an appropriation, see our What's A Markup? fact sheet. It is important to remember that authorization bills RECOMMEND funding levels, but only appropriations bills actually provide money.

You can link to the congressional bills and reports from our fact sheet on Major Space-Related Legislation in the 111th Congress.

Table 1 shows the President's FY2011 budget request and congressional action thereon.

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 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 last year's budget versus this year's budget.

By Marcia S. Smith

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

FY2011	President's Request	Authorization (The Senate version was enacted)		Appropriations	
		House Cmte	Senate (FINAL)	House Sbcmte*	Senate Cmte
Science	**5.005**	**5.016**	**5.005**	**4.705**	**5.005**
Earth Sci	*1.802*	*1.802*	*1.802*		*1.802*
Planetary	*1.486*	*1.486*	*1.486*		*1.486*
Astrophysics	*1.076*	*1.076*	*1.076*		*1.076*
Heliophysics	*0.642*	*0.647 (.005 is augmntn for Explrs)*	*0.642*		*0.642*
Suborbital Augmntn		*0.005*			
Aeronautics†	**0.580**	**0.580**	**0.580**	**0.375**	**0.580**
Space Technlgy†	**0.572**	**0.572**	**0.350**	**0.512**	**0.325**
Exploration	**4.263**	**4.535****	**3.868**	**3.564**	**3.912**
Human Research	*0.215*	*0.215*	*0.155*		*0.155*
Comrcl cargo demo	*0.312*	*0.014*	*0.300*		*0.312*
Comrcl crew	*0.500*	*0.050*	*0.312*		*0.250*
Restructure expl program	*--*	*4.156***	*--*		*--*
Loan and loan guar.	*--*	*0.100*	*--*		*--*
New crew vehicle	*--*	*--*	*1.120*		*--*
Orion	*--*	*--*	*--*		*1.100*
HLLV and Propulsion R&D	*0.559*	*--*	*--*		*--*
New Space Trans Sys/HLLV	*--*	*--*	*1.631*		*1.900*
Tech Dev & Demo	*0.652*	*--*			*.150 (at least 0.027 for flagship demos)*
Expl. Tech. Dev.			*0.250*		
Robotic Precursors	*0.125*	*--*	*0.100*		*.045*
Constellation Closeout	*1.900*	*--*	*--*		*--*
Space Operations	**4.888**	**4.594****	**5.509**	**4.461**	**5.533**
Shuttle	*0.989*	*0.989*	*1.610*		*1.610*
ISS	*2.780*	*2.805** (0.075 is for fundmntl res.)*	*2.780*		*2.780*

FY2011	President's Request	Authorization (The Senate version was enacted)		Appropriations	
		House Cmte	Senate (FINAL)	House Sbcmte*	Senate Cmte
Post-Shuttle Trans	--	*0.060*	--	--	--
Sp & Flt Support	*1.119*	*0.740 (0.050 is for 21st Cntry Lnch Complex)*	*1.119 (0.429 is for NASA lnch spprt and infrastructure modernization)*		*1.144*
Education	**0.146**	**0.146**	**0.146** (0.025 is for EPSCOR; 0.046 for Space Grant)	**0.205**	**0.146**
Cross Agency	**3.111**	**3.111**	**3.111**	**4.634**	**3.079**
Constr & Env C	**0.397**	**0.407** (0.010 is for NASA lab revitlztn)	**0.394**	**0.509**	**0.381**
IG	**0.037**	**0.038**	**0.037**	**0.037**	**0.038**
TOTAL	19.000	19.000	19.000	19.000	19.000

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.

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)

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

The Senate version of the bill was enacted.

FY2012	Projection in President's FY2011 Request	House cmte	Senate (FINAL)
Science	**5.249**	**5.279**	**5.249**
Earth Sci	*1.944*	*1.945*	*1.945*
Planetary	*1.547*	*1.547*	*1.547*
Astrophysics	*1.109*	*1.109*	*1.109*
Heliophysics	*0.648*	*0.673 (0.025 is augmntn for Explorers)*	*0.648*
Suborbital Augmntn		*0.005*	
Aeronautics†	**0.585**	**0.599**	**0.585**
Space Technlgy†	**1.012**	**1.012**	**0.486**
Exploration	**4.577**	**4.882**	**5.252**
Human Research	*0.215*	*0.215*	*0.165*
Commercial crew	*1.400*	*0.050*	*0.500*
Restructure expl program	*--*	*4.517*	*--*
Loan and loan guar.	*--*	*0.100*	*--*
New crew vehicle			*1.400*
HLLV and Propulsion R&D	*0.594*	*--*	*--*
New Space Trans Sys/HLLV			*2.650*
Expl Tech Devl			*0.437*
Tech Dev & Demo	*1.262*	*--*	*--*
Robotic Precursors	*0.506*	*--*	*0.100*
Constellation Closeout	*0.600*	*--*	*--*
Space Operations	**4.290**	**3.930**	**4.142**
Shuttle	*0.086*	*0.086*	*--*
ISS	*2.984*	*3.034 (0.100 is for fundamental res)*	*2.952*

FY2012	Projection in President's FY2011 Request	House cmte	Senate (FINAL)
Post-Shuttle Trans		*0.040*	--
Sp & Flt Support	*1.221*	*0.771 (0.050 is for 21st 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.

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

FY2013	Projection in President's FY2011 Request	House cmte	Senate (FINAL)
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.

Project/Activity	FY2011			FY2012			FY2013		
	President (Request)	House Cmte	Senate **(Final)**	President (Projection)	House Cmte	Senate	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***
Yr to Yr change	*-0.3%*	*-0.1%*	*0.0%*	*1.3%*	*Not public*
FY2011 Budget	**19,000**	**19,450**	**19,960**	**20,600**	**20,990**
Yr to Yr change	*1.5%*	*2.4%*	*2.6%*	*3.2%*	*1.9%*
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.