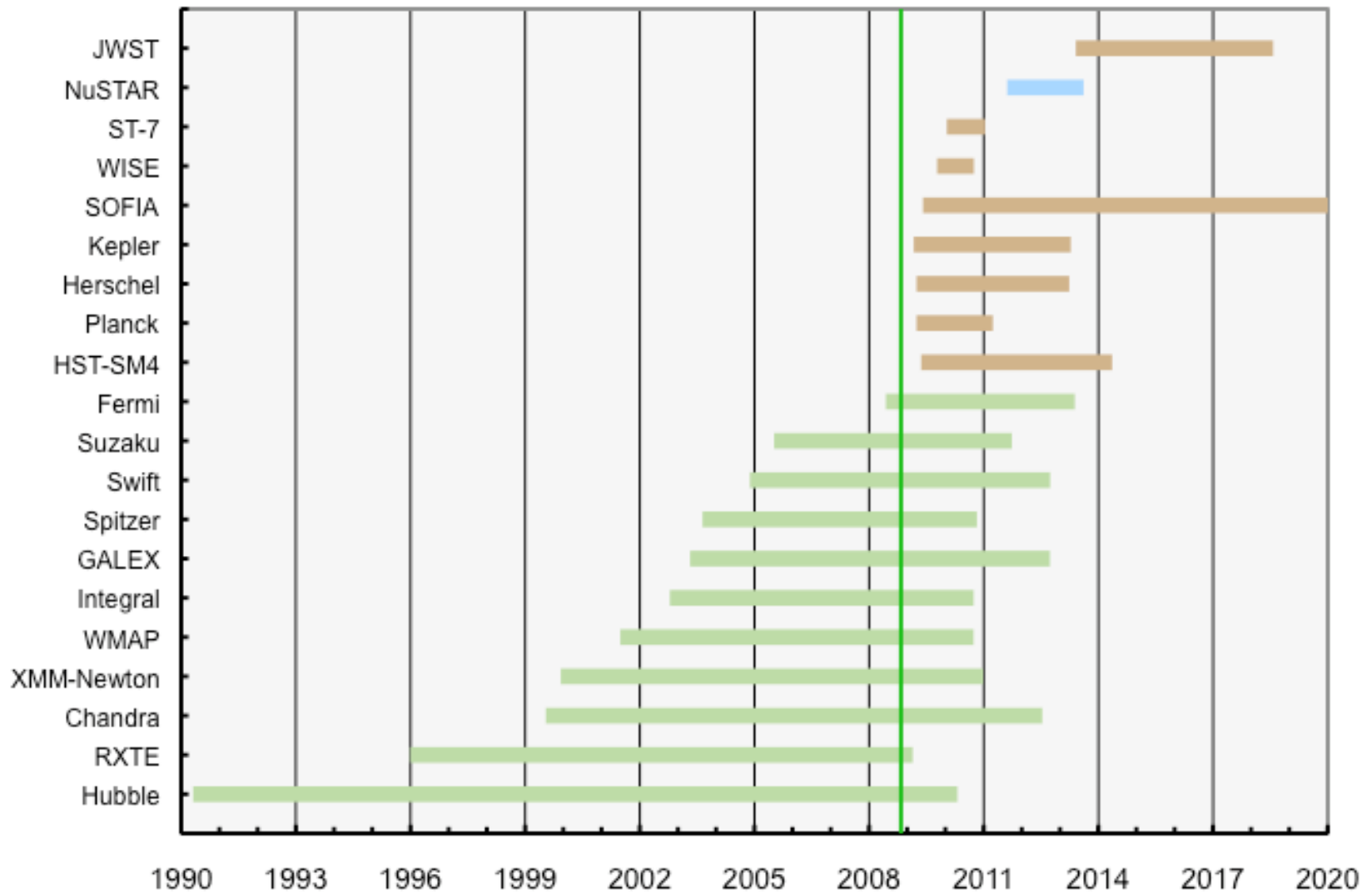


Astrophysics Division News

Eric P. Smith
JWST/HST Program Scientist
Astrophysics Division
Science Mission Directorate
NASA Headquarters

November 13, 2008

Astrophysics Division Missions Operational Phase



Green: Operating, Tan: Development, Blue: Formulation

FY2009 Presidential Submit

	* FY07	* FY08	FY09	FY10	FY11	FY12	FY13
FY09 President's Budget *	1,356.8	1,363.5	1,162.5	1,122.4	1,057.1	1,067.7	1,116.0
Physics of the Cosmos	196.5	157.2	157.0	219.8	249.0	271.1	326.0
GLAST	84.4	41.9	23.2	23.3	24.1	24.9	24.9
JDEM		3.7	8.5	63.0	83.0	109.0	125.0
LISA	6.5	5.7	5.7	15.9	18.7	26.7	35.0
Constellation-X	8.3	8.1	8.3	12.0	16.8	15.9	42.0
Chandra	58.6	62.9	65.0	67.8	68.5	50.2	48.9
XMM	8.6	7.4	7.0	7.4	7.6	8.5	8.5
Herschel/Planck & Other	48.4	27.6	76.1	56.6	54.5	59.9	64.7
Exoplanet Exploration	184.6	159.5	48.1	67.7	68.4	96.4	126.2
SIM	30.4	24.3					
Kepler	121.8	79.5	25.2	14.9	13.9	12.6	8.8
Keck Operations	2.8	2.8	2.9	3.0	3.1	3.2	
TPF/EXEP Tech	8.0	7.5	6.7	6.3	6.4	7.5	8.7
Future Exoplanet Missions	1.0	23.8	6.6	41.7	44.0	72.0	107.5
Other	20.6	21.6	6.7	1.8	1.0	1.0	1.2
Cosmic Origins	788.9	816.9	674.4	571.1	515.4	485.6	458.5
James Webb Space Telescope	398.6	447.4	371.9	311.1	265.1	236.1	194.9
Hubble Space Telescope	277.5	230.2	154.9	125.6	114.7	94.8	93.9
SOFIA	38.9	64.0	72.8	72.8	57.0	58.8	60.6
Spitzer	73.8	75.4	71.7	15.9	10.3	3.2	3.3
Astrophysics Future Missions			3.0	45.8	68.3	92.7	105.8
Astrophysics Explorer	88.0	117.2	130.6	93.3	43.3	11.7	6.4
WISE	52.9	72.7	65.2	13.0	5.2	1.6	
NuSTAR		16.7	41.5	57.8	31.0	6.8	6.4
Operating Explorers (Swift, Suzaku, RXTE, GALEX, WMAP)	35.1	27.8	23.9	22.5	7.1	3.2	
Astrophysics Research	98.8	112.6	152.3	170.4	181.0	203.0	198.9
Research and Analysis	52.2	56.6	61.4	65.4	69.3	72.6	77.5
Balloons	22.2	24.0	24.6	26.7	28.8	32.4	33.2
ADCAR	9.0	12.6	12.8	13.4	17.7	33.5	24.3
Other	24.5	19.4	53.5	65.1	65.2	64.4	63.8

Launching in 2009

* FY07 and FY08 reflect latest proposed Operating Plan, in FY09 structure
 ** Future Explorer budget in Heliophysics.

Astrophysics Division Events





















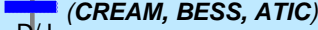
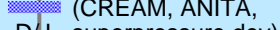



















CY2008

2009

2010

2011

2012

Mission Launches etc.	 Jun 11 GLAST	 NET Mar Herschel Planck	 Mar 5 Kepler TBD HST SM4	 Aug SOFIA Early Sci	 Nov 2 WISE			 Aug NuSTAR								
	— EPOCH Obs (Jan-summer)															
Suborbital <i>Rocket Program.</i>	 Jan LIDOS #3	 Apr XQC #3	 Oct J-PEX #2	 Feb CIBER #1	 Mar DICE #1	 May PICT- URE #1	 Jun EXOS	 Oct FUSP #1	 Nov XQC #4	TBD FIRE	 Jul CIBER #2	 Oct FUSP #2	TBD ACCESS	 TBD MicroX	 TBD XQC #5	 TBD ACCESS #2
<i>Balloon Campaigns</i>																
Antarctica	 (CREAM, BESS, ATIC) D/J		 (CREAM, ANITA, superpressure dev) D/J				 D/J		 D/J		 D/J					
Sweden																
Ft. Sumner (spr)	 (superpressure dev, eng.) A/M/J			 A/M		 M/J		 A/M		 A/M						
Palestine																
Ft. Sumner (fall)	 (HASP *, eng.) A/S				 J/J		 A/S		 J/J		 A/S		 J/J		 A/S	
Australia																
Opportunities	 Apr Mission S.R.		 Jun Archive S.R.		 Fall JDEM AO		 TBD Exoplanet AO									

Legend
 Purple - Mission with International lead
 * Student Opportunity balloon flight

Last Updated: October 3, 2008

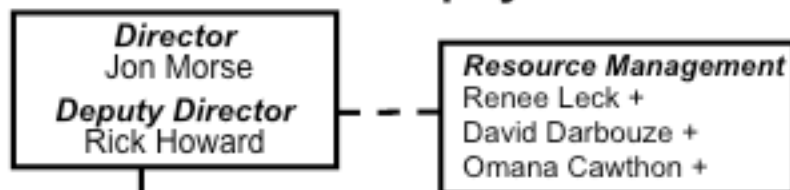
Future Significant Events FY09

- **SOFIA**
 - Open door flight testing early 2009.
- **JDEM**
 - Release AO.
- **Hubble**
 - SM4 mission launch 2009.
- **Kepler**
 - Launch NET March 5, 2009.
- **Herschel/Planck**
 - Launch NET March 2009.

Backup

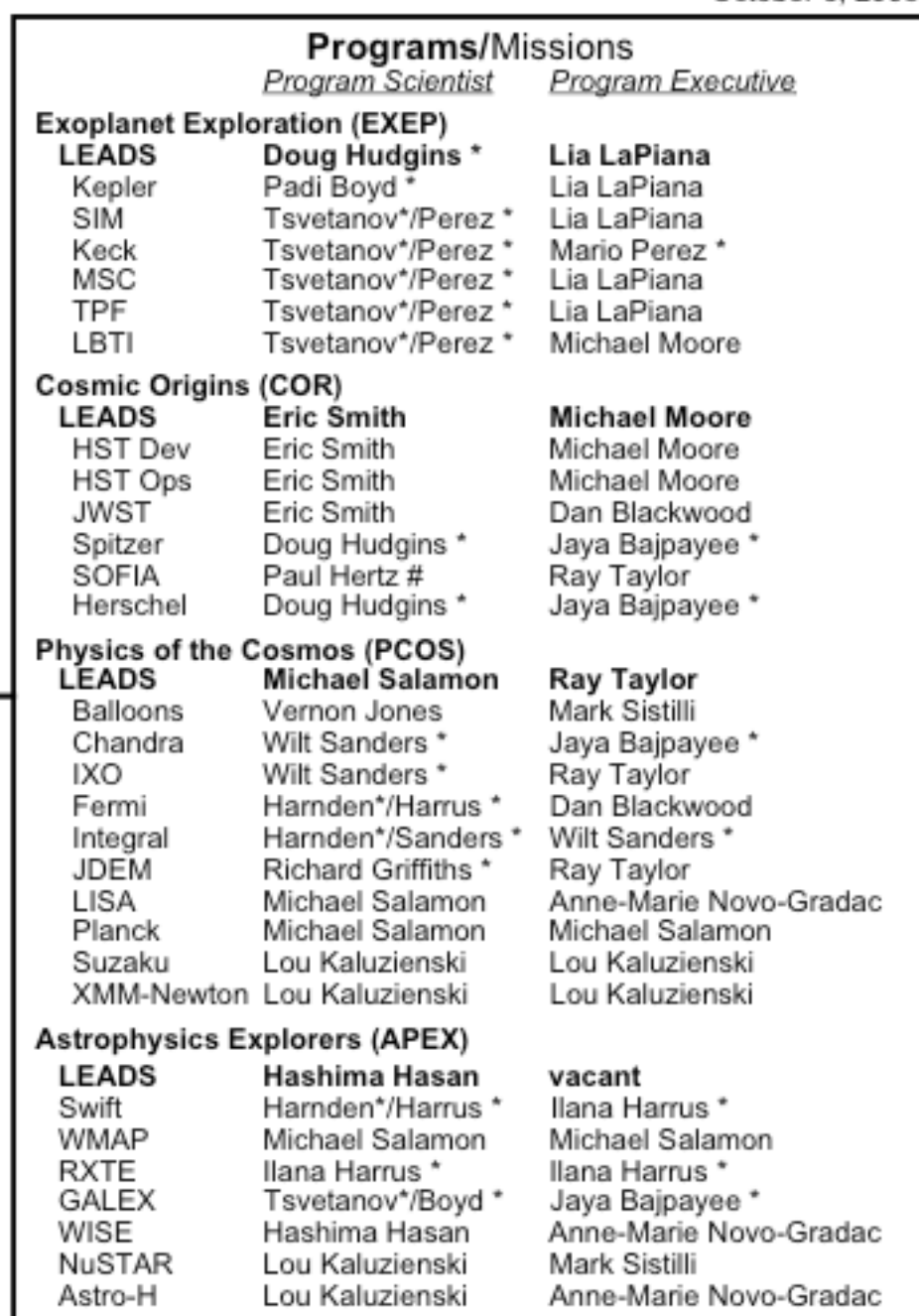
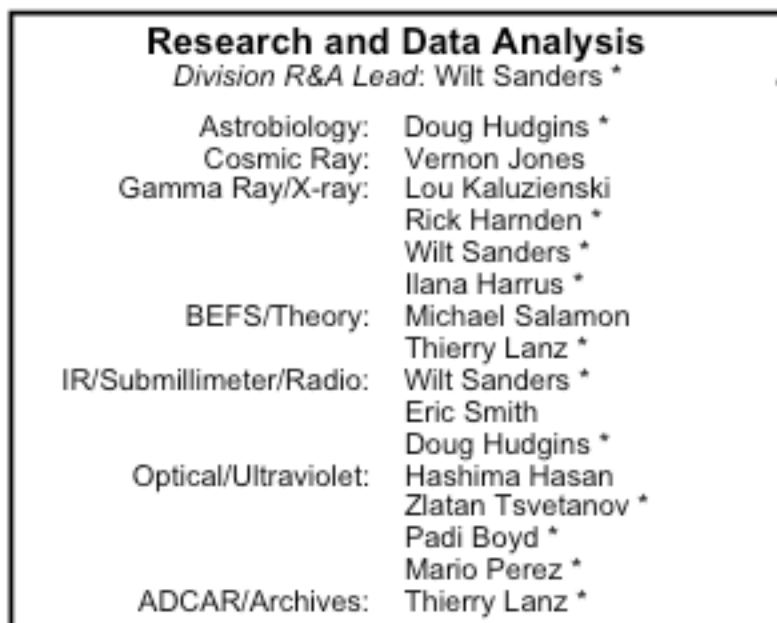
Astrophysics Division - Science Mission Directorate

October 6, 2008



Lead Secretary: Kelly Johnson
Secretary: Lydia Thompson
Program Support Specialist: Sheila Gorham

Division Technologist: Dan Blackwood
Division PAO POC: Ilana Harrus *
Division E/PO POC: Hashima Hasan
Information Manager: Lisa Wainio *



+ Members of the Mgmt & Policy Division

Member of the SMD Front Office

* Detailee, IPA, or contractor

Astrophysics Fellowships

Fellowships aligned with Astrophysics Division Science Themes.

- Solicit proposals with Physics of the Cosmos, Exoplanet Exploration, or Cosmic Origins science as focus rather than mission specific.
- Management by existing fellowship organizations.
 - *Sagan* fellows: Exoplanet Exploration program office, JPL
 - *Einstein* fellows: Chandra X-ray Center
 - *Hubble* fellows: STScI
- Stipend (all new fellows): \$60,500
- Deadlines for Applications were:
 - November 6, 2008 [Hubble and Sagan fellows]
 - November 7, 2008 [Einstein fellows]
- For more information see:
 - Sagan: <http://nexsci.caltech.edu/sagan/fellowship.shtml>
 - Einstein: <http://cxc.harvard.edu/fellows/>
 - Hubble: <http://www.stsci.edu/institute/org/spd/hubble-fellowship/hubble-fellow-overview>