









EARTH SCIENCE

HELIOPHYSICS

PLANETARY SCIENCE

ASTROPHYSICS

Update 2014 SMD Science Plan

Dan Woods Director, Strategic Integration and Management July 16, 2013

SMD 2014 Science Plan Schedule

* SMD milestones proceed agency milestones

2013	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	NOV	DEC	JAN	FEB
SMaC/SMD Concurrence	2/21	3/22		6	/3 6/	21						
OCFO/OSF Submission		3/1 3/22										
OMB/OSTP						7/9 7	7/30			12/15	1/15	
NAC/SC Subcommittees			4/4 4/17	7		7/9	7/30					
NAC Science Committee			4/18			7/9	7/30					
NRC/SSB							8/8		1	2/1		
Layout/Release											1/15	2/15
Science Plan Milestones				5/17 WG	6/1 V.0	7/1 V.1	8/1 V.3			12/15 V.4		2/15 FINAL
Agency Strategic Plan Milestones					6/3 OMB		8/1 Congress	9/9 OMB		12/20 FINAL		2/4 FINAL



Challenges Recommended by Subcommittees

- Each subcommittee, including APS, suggested additional SMD Challenges, and these potential challenges were presented to the Senior Management Council on May 2 for consideration.
 - Increasing fidelity of cost estimates and implementation
 - Effective communication and engagement of students and the public/Next Generation Workforce
 - Balancing Risk and Science Payoff
 - Collaboration requires high level of coordination

Challenges for 2014 Science Plan

- Access to Space
- Mission Cost Estimation and Management
 - Updated to highlight improvements in cost estimation and management as a result of new policies established in 2010
- Technology Development and Demonstration
- Impediments to International Collaboration on Space Missions
- Meeting (Scientific) and Societal Needs
- National Science and Technology Workforce Development
- Unstable Budget Environment

Astrophysics Chapter Contents

Strategy

Program Implementation

Physics of the cosmos

Cosmic Origins

Exoplanet Exploration

Explorer Program

Astrophysics Research

Current Missions

Missions in Development

Future Missions

Astrophysics Division Strategic Objectives and Science Goals

Astrophysics: Discover how the universe works Unravel the mysteries of the universe, explore how it began and evolved, and search for life on planets around other stars.

Science Goals

- Probe the origin and destiny of our universe, including the nature of black holes, dark energy, dark matter and gravity
- Explore the origin and evolution of the galaxies, stars and planets that make up our universe
- Discover and study planets around other stars, and explore whether they could harbor life

Next Steps

- Gathering comments on Draft 1.0 from Subcommittees, Science Committee, and OMB/OSTP. Deadline for comments is July 30, 2013.
- Will submit Science Plan v.2 to NRC for review early August