



Research, Data Analysis & EPO

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Executive Director for Research Programs

Changes made in the past year
(thanks to SMD team, especially Max Bernstein):

Increased information exchange between SMD and the scientific community regarding all Research, Data Analysis and EPO issues

Established R&A MOWG and EPO MOWG to study cross directorate concerns

ROSES 2008 calls include 4-yr grant opportunities

Budgets completely revealed to review panels in ROSES-08

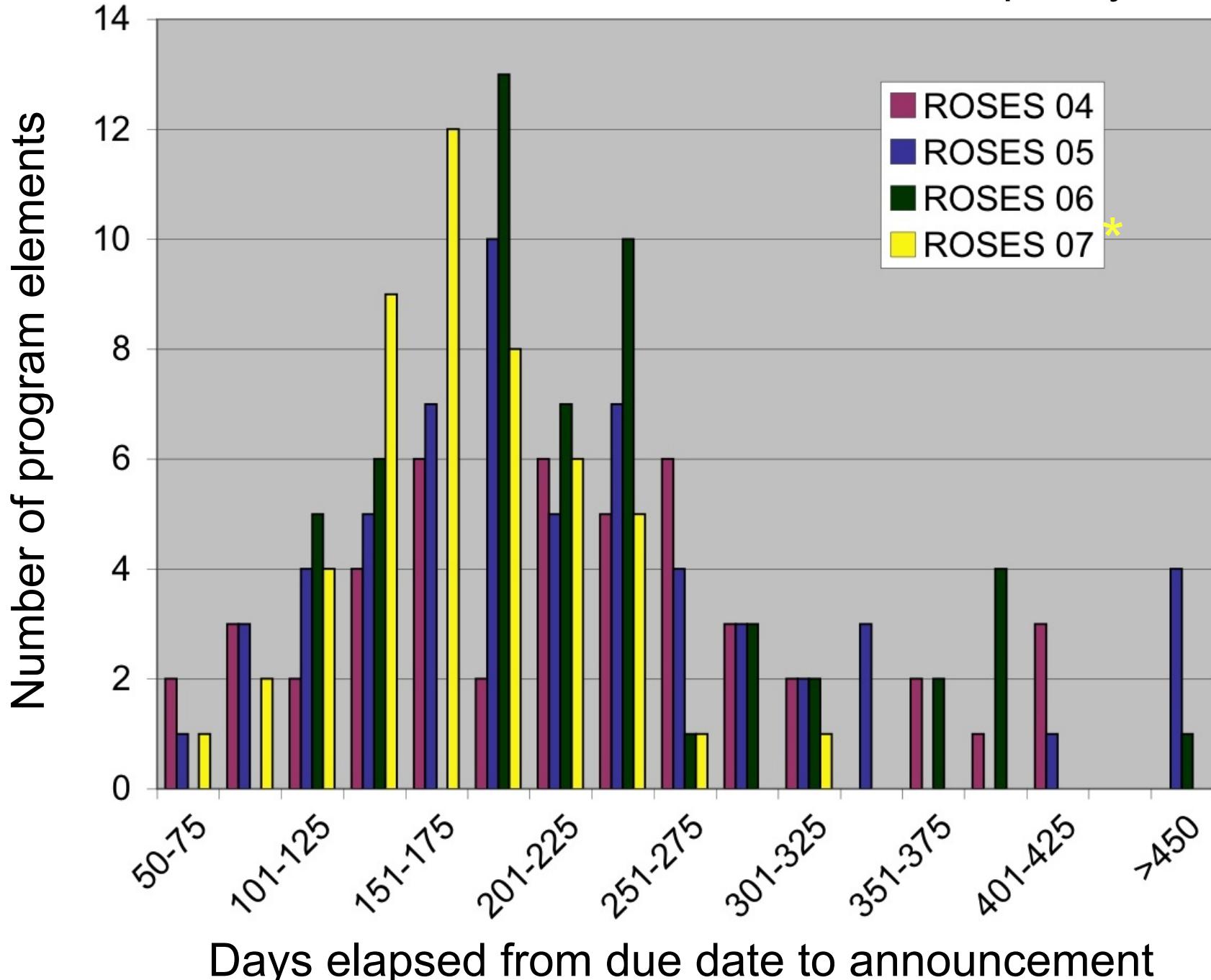
Grant win/loss notifications accelerated, from months to weeks

Resolved several hundred stalled funding issues in 2007

Eliminated backlog of hundreds of no-cost extension requests in 2007

Answered ~1800 emails to SARA@nasa.gov (most within 24 hours)

Selections were made faster for 2007 than prior years





SMD Research Program Budget Repair

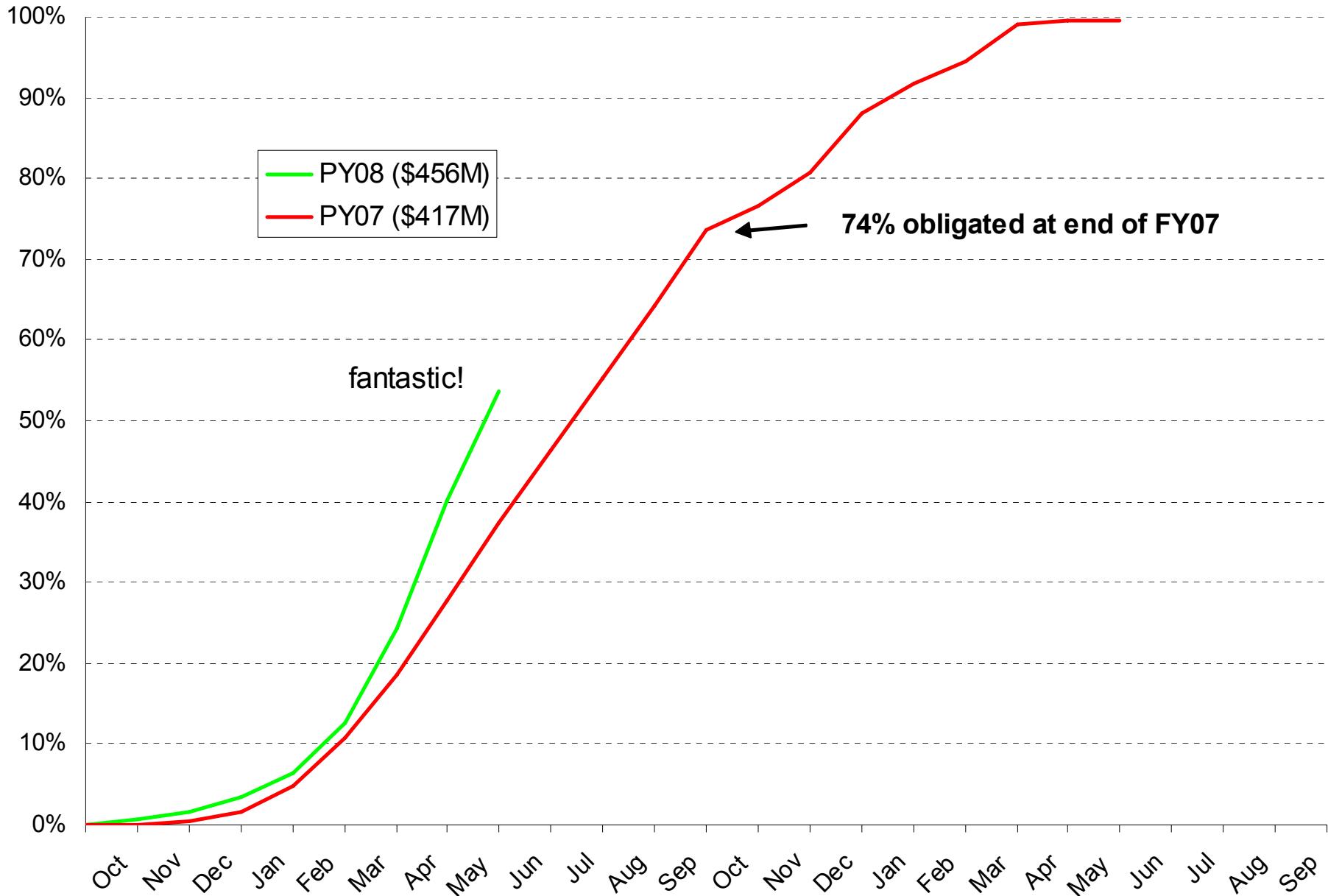
FY 06:

Planetary 151.9
Astrophysics 57.0
Heliophysics 33.7
Earth Science 236.5

FY 09:

Planetary 167.3
Astrophysics 61.4
Heliophysics 33.9
Earth Science 213.7

Core R&A Obligation Rates



Obligation of Center R&A Funds

- SMD is required in aggregate to obligate 92% of FY08 funds by the end of FY08 and 100% of FY08 funds by the middle of FY09.
 - The objective is to avoid a rescission.
 - We are being aggressive to avoid losing funds (again).
- In reality, some programs will be above 92% and some will be below 92%
 - All programs and projects are expected to be aggressive.
 - We realize that R&A may be below 92% at the end of FY08 because of the nature of the work and the end-of-the-year shutdown.
 - FY08 R&A funds that are in danger of being unobligated by the middle of FY09 may be withdrawn and given to another program to obligate.
 - If possible, they will be replaced with FY09 funds (which will have their own obligation requirements).
- SMD will work with the Centers to devise a process for providing R&A funds for continuing investigations (2nd and 3rd year funding) earlier in the fiscal year.

Panel Reviewers from Centers

Community Service Support to Centers (details coming):

POC= Paul Hertz

SMD needed over 4,000 panel reviewers in 2007

NASA has ~500 research scientists.

NASA scientists can provide ~1/4 of this need and provide important balance to the external community evaluations of the research NASA ultimately funds.

Scientists especially needed for upcoming EPO midsized project review (~150K-200K avg grant sizes; 4 years)

When: August 26-28 Where: Washington, DC

POC= Larry Cooper (larry.p.cooper@nasa.gov)

SMD competed science funding: Scope (2007)

~ \$1.0B per year distributed from competitively won funding

\$4.5B total SMD budget

[NOT including participation in missions under development]

- ~\$425M in R&A Projects

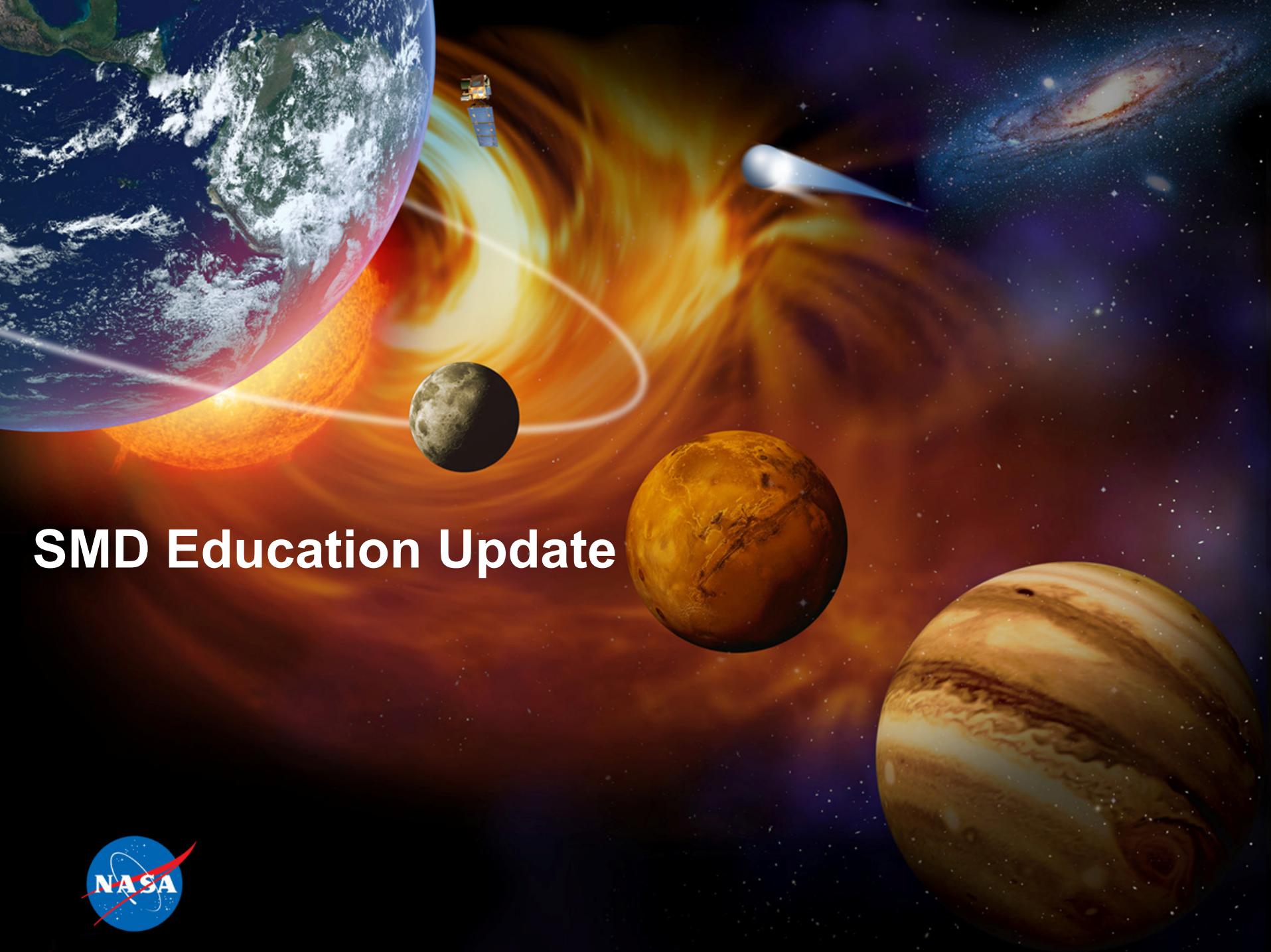
(Earth R&A, EOS Science, Carbon Cycle, Ozone Trends, Astrophysics R&A, Planetary R&A, Mars R&A, Heliophysics R&A, LWS Science)

- ~\$450M in Science Teams (over 50 operating missions)
- ~\$150M in other mission Data Analysis Projects (e.g. Guest Observers, Archival DA, Discovery Research, Earth Mission Science GI)

SMD competed science funding: Distribution (2007)

Distribution of SMD competitively awarded funds:

- ~33% to JPL and NASA Centers for in-house work (Labor, Travel, in-house support contracts)
- ~7% to other Government agencies
- ~60% to Universities and non-profits, on grants and cooperative agreements
- NASA Centers win <5% of Astrophysics Great Observatory awards, ~45% of Earth Science R&A



SMD Education Update





The SMD EPO Team:

Doris Daou leaves SMD June 27;
moves to ARC to lead EPO for the NASA Lunar Science Institute.

Larry Cooper, SMD-level EPO Representative

Hashima Hasan, Astrophysics Division

Ming-Ying Wei, Earth Science Division

Jeff Hayes/Eric Christian, Heliophysics Division

Marilyn Lindstrom, Planetary Science Division

Ruth Netting, Management and Policy Division, SMD Outreach Coordinator

FY08 SMD Education & Outreach Portfolio Highlights



~500 projects embedded in 56 SMD missions (~25M/year)

GLOBE (Global Learning and Observations to Benefit the Environment) Program (~5M/year)

15 competitively selected midsized projects from 2007 call (~2M/year); 2008 proposals due July 15 (~2M/year).

Need volunteers for late August panel reviews!

15K Supplemental Grants to ~100 R&A PIs/year (~1.5M/year)

Suspended in late 2007, but simplified format coming soon

EPO Forums funded through September 09 (~4M/year)

NASA's Contribution to IYA Efforts

NASA's Approach

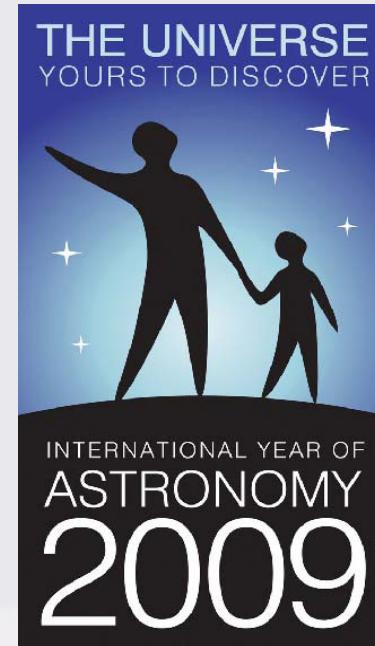
Capitalize on public interest in NASA's science discoveries and missions to support US IYA goals.

Convey observation and exploration as an ongoing human endeavor.

Align with US themes and working group activities.

Central website portal with **monthly highlights** that provides a framework for planning.

- Topic related to key events and activities
- Celestial objects to observe
- NASA space science mission events
- Events for students, educators, and the public
- Related resources and activities for educators and families



NASA's IYA Website: astronomy2009.nasa.gov



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International Year of Astronomy 2009



Galileo Highlights ▶ 1 2 3 4

Discover the Universe with NASA during the 2009 International Year of Astronomy

In 2009 we celebrate the 400th anniversary of Galileo's first observations of the universe through a telescope. In honor of this early event, the International Astronomical Union (IAU) and the United Nations have proclaimed 2009 as the International Year of Astronomy to spread awareness of astronomy's contributions to society and culture, stimulate young people's interest in science, portray astronomy as a global peaceful endeavor, and nourish a scientific outlook in society.

NASA invites YOU to join us in the celebration of IYA 2009. This website will be your portal to exciting NASA resources, events, and opportunities for involvement as we develop our program of regional and national IYA activities for students, teachers, and the public.



Additional links:



International Year
of Astronomy 2009
(Global)



International Year
of Astronomy 2009
(United States)



American
Astronomical
Society



International
Astronomical
Union

- + USA.gov - The U.S. government's official web portal.
- + Freedom of Information Act
- + Budgets, Strategic Plans and Accountability Reports
- + The President's Management Agenda
- + Privacy Policy and Important Notices
- + Inspector General Hotline
- + Equal Employment Opportunity Data Posted Pursuant to the No Fear Act
- + Information-Dissemination Priorities and Inventories



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+ Contact NASA