

Astrophysics Strategic Objectives and Goals

Presentation to the Astrophysics Subcommittee

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Context

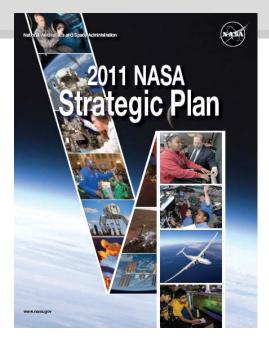
A new NASA Strategic Plan is being developed

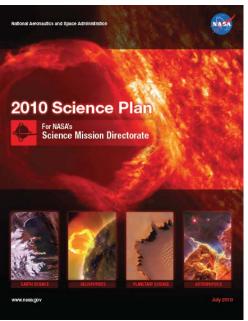
http://www.nasa.gov/pdf/516579main_NASA2011StrategicPlan.pdf

A new SMD Science Plan is also being developed

http://science.nasa.gov/media/medialibrary/2010/08/10/2010 SciencePlan.pdf

- As part of this process, the Astrophysics
 Division has been asked to review and
 update, as needed, its objectives and goals
- These must reach broad constituencies
- In the new plans, there is a change in nomenclature:
 - Outcomes will now be called
 Strategic Objectives
 - Objectives will now be called Performance Goals





Context

- Important to keep in mind the primary audiences for the Astrophysics Objectives and Goals
 - The main audience is *not* the science community!
 - Rather, the key audiences are:
 - OMB, OSTP, Congressional staffers
 - non-technical people at the top of the Agency
 - the general public
- → No jargon! Instead, user-friendly language that is exciting to non-scientists
- Also the objectives and goals have timescales over which we have to demonstrate progress to OMB

Process

- This is how we generated the draft objectives and goals
 - Start with discussions within the APD at HQ
 - Next, the PCOS, COR, and ExEP Program Scientists and Program Office Chief Scientists, and their deputies, met together by telecon
 - Chief Scientists then consulted with their respective PAG Executive Committees to provide suggested changes.
 - These inputs came back to HQ for discussion within the APD
- → resulted in draft objective and goals
- Now present to APS for comments
- APD must finalize by Feb 19 and submit to SMD planning group

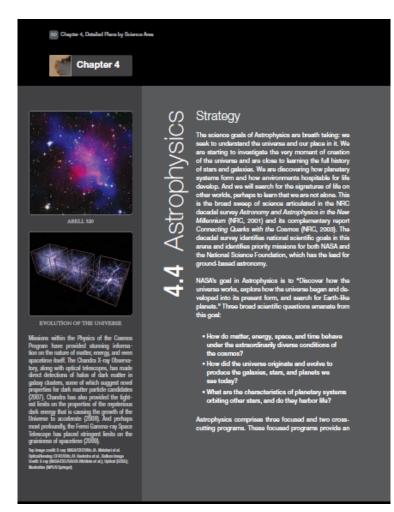


What is next....

The Astrophysics chapter of the Science Plan

will be updated

- → Provides opportunity to include more information on science and scope
- We will proceed in a similar manner:
 - Draft updates at HQ
 - Meet with Program Offices
 - Request inputs from PAGs
- Plan to ask the APS to review the revised chapter at April meeting





Astrophysics Strategic Objective and Performance Goals

| Strategic Objective / Performance Goals | Current Wording (2011 NASA Strategic Plan) | Proposed Wording |
|---|--|--|
| Astrophysics (strategic objective; | Discover how the universe works, explore how it and evolved, and search for Earth- | Discover how the universe works, explore how it began and evolved, and search for life |
| timescale is >5 years) | like planets | on planets around other stars |
| Physics of the Cosmos (PCOS) | Understand the origin and destiny of the universe, and | Probe the origin and destiny of the universe, and the nature of |
| (timescale is up to several yrs) | the nature of black holes, dark energy, dark matter and gravity | black holes, dark energy, dark matter and gravity |
| Cosmic Origins (COR) | Understand the many phenomena and processes associated with galaxy, stellar, | Explore the origin and evolution of the galaxies, stars |
| (timescale is up to several yrs) | and planetary system formation and evolution from the earliest epochs to today | and planets that make up our universe |
| Exoplanet Exploration Program (ExEP) | Generate a census of extra- solar planets and measure | Discover planets around other stars, and explore whether they |
| (timescale is up to several yrs) | their properties | could harbor life |