DRIVE

Outlook

Solar and Space Physics: A Science for a Technological Society

Mona Kessel

NASA HQ

HPS Meeting  March 1-2, 2016
Heliophysics Base ROSES Program

FY 2014
FY 2015
FY 2016
FY 2017
FY 2018
FY 2019
FY 2020
FY 2021

LWS
GI
GCR
TIDS
SR

$0.0
$10.0
$20.0
$30.0
$40.0
$50.0
$60.0
$70.0
Decadal Survey – Implement Drive

Recommendation: A NASA tiny-satellite, augmenting Low-Cost Access to Space (LCAS) requiring the addition of $9 million per year.

Recommendation: NASA and NSF together heliophysics science centers, requiring NASA funds ramping to $8 million per year.

Recommendation: NASA heliophysics instrument and technology development program ramping to $4 million per year.

Recommendation: NASA augment MO&DA support by $10 million per year.

Recommendation: NASA with NSF on laboratory plasma, ramping from $2 million per year.
Decadal Survey – Implement Drive

![Decadal Survey Graph]

![President’s FY2017 Budget Graph]
Decadal Survey – Implement overDrive

Solar and Space Physics: A Science for a Technological Society
Summary & Conclusions

• Number 1 goal of Decadal Survey was to finish the current program
  – ICON, GOLD, SPP, SOC, SET on target
  – This goal constrains Heliophysics budget until FY 2018

• Number 2 goal was to Implement DRIVE
  – HPD began to implement DRIVE in 2014 with small amounts as possible
  – HPD can fully implement DRIVE in FY 2018-20 assuming President’s FY2017 budget is enacted
Backup
Research and Analysis Funding Management

**Assuming Flat funding**

- Approximately 1/3 of funds go to New Awards each year
- Approximately 1/3 of funds go to second year of previous year's competition
- Approximately 1/3 of funds go to third year of the competition before that
Assuming Flat funding

- Approximately 1/3 of funds go to New Awards each year
- approximately 1/3 of funds go to second year of previous year's competition
- approximately 1/3 of funds go to third year of the competition before that
Research and Analysis Funding Management

Assuming Flat funding

• Approximately 1/3 of funds go to New Awards each year
• approximately 1/3 of funds go to second year of previous year's competition
• approximately 1/3 of funds go to third year of the competition before that

And on and on assuming flat funding
Research and Analysis Funding Management

However, assuming a step up in funding and needing to allocate all

~double the selections in 2018?
Research and Analysis Funding Management

However, assuming a step up in funding and needing to allocate all double the selections in 2018 and that carries into 2019, with nominal selections in 2019.
OR,

rephrase a few awards
to provide less funding in Y1 & Y2 and more funding in Y3
  • to use up some of the increase in 2018
  • AND select more awards in 2016
Research and Analysis Funding Management

Again in 2017 rephase a few awards
to provide less funding in Y1 and more funding in Y2 & Y3
• to use up some of the increase in 2018
• AND select a few more awards in 2017
In 2018 and 2019 back to approximately 1/3 of funding selected each year with more awards.
Implementing this approach shows forward planning and good stewardship.

Implemented this year for some R&A programs.